MAJOR PROJECT ON

Power Spectrum for Earthquake Signal Using Hilbert Huang Transform

Submitted in partial fulfillment of the requirements

Of the degree of

(Master of Technology in Structural Engineering)

By

Pankaj Singh 2K14-STE-09

Supervisor:

Asso. Professor G.P. Awadhiya

Professor in Civil Engineering

(Department of Civil Engineering)

DELHI TECHNOLOGICAL UNIVERSITY

DELHI

(June 2016)

Major Project On

Power Spectrum for Earthquake Signal Using Hilbert Huang Transform

By

(Name)	(Roll No.)	(Signature)
Pankaj Singh	2K14/STE/09	_____

This thesis/dissertation entitled and authored as above is approved for the award of Master of Technology in Structural Engineering.

Examiner (s)

_____ _____ _____

Supervisor (s)

_____ _____

Chairman

_____

Date:_____

Place:_____

Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be the cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Name)	(Roll No.)	(Signature)
Pankaj Singh	2K14/STE/09	_____

Date:_____

Certificate

This is to certify that the project entitled "**Power Spectrum for Earthquake Signal Using Hilbert Huang Transform**" is a record of bonafide dissertation work carried out by me, Pankaj Singh, student of Master of Technology in Civil (Structure) Engineering from Delhi technological university, Delhi 2014-2016 towards the partial fulfillment of the requirements of the award of degree of Master of Technology in Structural Engineering.

Pankaj Singh

Roll no: 2K14-STE-09

M-tech 4th Semester

Structural Engineering

Department of Civil Engineering

Delhi Technological University

Delhi- 110046

This is to certify that the above statement laid by the candidates is correct to best of our knowledge.

Date:

Mr. G.P. Awadhiya

Asso. Professor

Department of Civil Engineering

Delhi Technological University

Abstract

Hilbert Huang Transformation method is used to analyze non-stationary signals. Unlike most existing methods this method does not need assumptions of peace-wise stationarity or analytical function forms of spectra. Application to earthquake ground motion by using EMD method introduced by Huang is used to disintegrate Earthquake data into IMFs. Hilbert transform of IMF is used to find Hilbert marginal spectrum, three dimensional frequency time plot and power spectra.

Acknowledgement

The author is grateful to Mr. G.P. Awadhiya (Asso. Professor) Delhi Technological University for their comments and suggestions in this research. His immense generosity and affection bestowed on us goes beyond his formal obligation as guide.

The support from Delhi Technological University and the Disaster Management Lab is gratefully acknowledged.

My special thanks to my parents who have given me strength, love, care to carry out this course successfully.

Pankaj Singh

Table of contents

1 Chapter 1 Introduction

1.1 Overview……..…….....……....….1

1.2 Objective and Scope……..…….....….....2

1.3 Organization…….....……...……...…….....3

2 Chapter 2 Literature Review

2.1 Analysis of Non-stationary Signal…….....……..……...……...…….....4

2.2 Simulation of Earthquake Ground Motion ……..……....….....…….....6

3 Hilbert Transform

3.1 History of Hilbert Transform……..…….....7

3.2 Hilbert Transform Notation…...…….....7

3.3 Hilbert transform notation for complex sequences….....8

4 Hilbert Huang Transform (HHT)

4.1 Introduction.....11

4.2 Empirical Mode Decomposition.....12

4.2.1 Process involved in EMD.....13

4.2.2 Local Maxima, Local Minima and Inflection Points.....14

4.2.3 Cubic Sp-lines Interpolation.....15

4.3 Stoppage Criteria.....17

4.4 Spline problems (the best spline implementation for HHT and Convergence).....18

4.5 Instantaneous Amplitude and Frequency.....19

4.6 Three dimensions time-frequency spectrum.....20

4.7 Marginal Spectrum.....20

4.8 Instantaneous Energy Spectrum.....20

4.9 Hilbert Energy Spectrum.....20

4.10 How HHT can be applied in Analysis of Structure.....21

5 Application of HHT

5.1 Vibration-data El Centro Earthquake.....22

5.2 USGS Description of the El Centro (Imperial Valley) Earthquake.....22

5.3 Steps involved in EMD.....23

6 Chapter 6

Conclusions and Recommendations for Future Study…….37

References…….38

Appendix I

A.1 EMD Programming…….41

A.2 Hilbert Transform Programming…….41

A.2.1 Description of HT Function……41

A.2.2 Matlab Coding ……...42

Appendix II

B. Results……...……44

B.1 Input data El-Centro (Imperial Valley)……..……...44

B.2 Intrinsic Mode Function ……..59

List of Figures

Figure 3.1 Illustration for decomposition of one sided Fourier Transform…….10

Figure 4.1 The flow chart of the decomposition process of EMD……...…14

Figure 5.1East-West Earthquake acceleration vs time El-Centro data……10

Figure 5.2 Shock Response Spectra El-Centro Earthquake.....23

Figure 5.3 plot of local Minima…….....23

Figure 5.4 plot of local Maxima …….....24

Figure 5.5 Plot of acceleration vs time, lower cubic sp-line and upper cubic sp-line…….....24

Figure 5.6 Plot of acceleration vs time and upper cubic sp-line……..24

Figure 5.7 Plot of acceleration vs time and mean of lower cubic sp line……25

Figure 5.8 Plot of acceleration vs time and mean of lower and upper maxima……..25

Figure 5.9 Plot of acceleration vs time and mean of lower and upper maxima……..25

Figure 5.10 Plot of Intrinsic Mode Function 1……...……..26

Figure 5.11 Plot of Intrinsic Mode Function 2.……26

Figure 5.12 Plot of Intrinsic Mode Function 3.…….……...……27

Figure 5.13 Plot of Intrinsic Mode Function 4.……....27

Figure 5.14 Plot of Intrinsic Mode Function 5.……...…..27

Figure 5.15 Plot of Intrinsic Mode Function 6.……28

Figure 5.16 Plot of Intrinsic Mode Function 7.……28

Figure 5.17 Plot of Intrinsic Mode Function 8…….……28

Figure 5.18 Plot of Intrinsic Mode Function 9.……..……..29

Figure 5.19 Plot of Intrinsic Mode Function 10…….…….……29

Figure 5.20 Plot of Intrinsic Mode Function 11…….…….…….29

Figure 5.21 Plot of Intrinsic Mode Function 12.……..…...…….30

Figure 5.22 Plot of Intrinsic Mode Function 13.……..…...…….30

Figure 5.23 Plot of Intrinsic Mode Function 14.……..……...…….30

Figure 5.24 Plot of Hilbert Transform of Intrinsic Mode Function 1.……..…….....31

Figure 5.25 Plot of Hilbert Transform of Intrinsic Mode Function 2. ……....31

Figure 5.26 Plot of Hilbert Transform of Intrinsic Mode Function 3. ……....32

Figure 5.27 Plot of Hilbert Transform of Intrinsic Mode Function 4. …….....32

Figure 5.28 Plot of Hilbert Transform of Intrinsic Mode Function 5. ……..….....32

Figure 5.29 Plot of Hilbert Transform of Intrinsic Mode Function 6. …….….....33

Figure 5.30 Plot of Hilbert Transform of Intrinsic Mode Function 7. …….....33

Figure 5.31 Plot of Hilbert Transform of Intrinsic Mode Function 8. ……...….....33

Figure 5.32 Plot of Hilbert Transform of Intrinsic Mode Function 9……...….....34

Figure 5.33 Plot of Hilbert Transform of Intrinsic Mode Function 10……...…….34

Figure 5.34 Plot of Hilbert Transform of Intrinsic Mode Function 11……...…….34

Figure5.35 Three dimensional frequency time plot……...…..35

Figure 5.36 Plot of Instantaneous energy spectrum…….35

Figure 5.37 plot of Hilbert Energy Spectrum…….……..36

Table

Table 2.1 Comparative summary of Fourier, Wavelet and HHT analyses……5

Table 4.2 Information about f at p from the first and second derivatives……15

List of Symbol

x(t)- acceleration data

u(t)- upper envelop

l(t)- lower envelop

m(t)- mean of envelop

h(t)- difference between x(t) and m(t)

r(t)- residue

c(t)- IMF

Chapter 1

Introduction

1.1 Overview

In actual world random phenomena are obvious in nature such is the case for natural loadings on structures. For example, earthquake ground motions comprise of seismic waves of altered periods arriving at different times. Both their intensity and frequency content are varying with respect to time. In general, the long period pulses observed in various near fault earthquake records have been observed to cause severe structural damage. Simulating earthquake ground motions by non-stationary process models that perfectly describe the intensity and frequency content variation with time and will allow more exact prediction of structural performance than approximate methods such as those depends on stationary models or uniformly modulated random process models. Recreation of stationary random processes depends on Fourier transform, which has been investigated comprehensively in the past. There is a large content of literature available on various methods using this method. But for non-stationary signals, it has been a difficult problem. The main reason for this is theoretical management of non-stationary processes has not been well developed, it mainly because of the difficulty in frequency domain analysis of such processes. The spectral analysis of random processes conventionally relies on the Fourier disintegration of the processes, i.e. indicating the processes by trigonometric functions of sine and cosine waves with same frequency and amplitude stretch out without bounds over time and space. It is naturally complex when applied to non-stationary processes whose amplitude and frequency contents change with time.

All presently available methods of spectral analysis of non-stationary processes such as double frequency spectrum, instantaneous spectrum and wavelet spectrum have some drawbacks. Recently, Huang et al (1998) introduced a new method, commonly referred to as HHT (Hilbert Huang Transform), for spectral analysis of non-stationary time series. HHT method consists of empirical modal decomposition (EMD) and Hilbert transform. The EMD brake down the signal into orthogonal functions called IMFs (Intrinsic Mode Functions). In

contrast to the Fourier-based methods or wavelet method, the EMD does not use preset function forms and thus it is more adaptive to data. The IMFs generally hold physical meanings. The Hilbert transform draw attention to local behavior and is less constrained by the uncertainty principle that one cannot localize or resolve both time and frequency in a wave format the same time to an arbitrarily high degree. The Hilbert transform of the IMFs gives the amplitude and instantaneous frequency from which one can obtain the Hilbert spectrum as a function of time and frequency. The Hilbert spectrum yields a sharp description of the time varying frequency content of the physical phenomena. HHT is a new approach to the challenging problem of time frequency analysis of non-stationary time series. The prominence of HHT study has been on data analysis and understanding of a time series of a real physical phenomenon. Not much work has been done on further development of the method as an analytical tool for spectral depiction of non-stationary random processes. HHT method is essential in performance evaluation of engineering structure under natural disaster, since the loadings on the structure need to be modeled as random processes. This method involves simulation of non-stationary random processes.

In earthquake engineering, UHRS (Uniform Hazard Response Spectra) and UHGM (Uniform Hazard Ground Motions) have been widely used for structural performance assessment. For example, USGS National Seismic Hazard Mapping Project 1996 and 2002 produced UHRS maps by using with several provisions and codes. These UHRS (Uniform Hazard Response Spectra) are produced from empirical attenuation relations and thus cannot be used to generate UHGM directly. The selection is mostly depends on the expert experience. Chronological records from all over the world, with different instrument housing are selected, and scaling is done to match a target UHRS modified from USGS 1996 mapping project.

1.2 Objective and Scope

The objective of this study is to extend the HHT (Hilbert Huang Transform)method to random process modeling and to develop new methods for simulation of non-stationary processes, in particular earthquake ground motions, based on given observations of the random processes. They will be used to construct UHRS and generate UHGM by applying the new simulation methods for non-stationary processes to earthquake engineering. The new

simulation methods will substitute the stochastic models in order to take care of the non-stationarity of the ground motions. HHT is a powerful method for analyzing data from nonlinear and non-stationary processes. In this method the frequency is derived by differentiation rather than convolution as a result, it is not restricted by the uncertainty principle. It is applicable to nonlinear and non-stationary data and shows the results in time-frequency-energy space for feature extraction. Marginal spectrum, Hilbert Energy Spectrum and Instantaneous Energy Spectrum are used to analyze the building.

1.3 Organization

The thesis is organized in six chapters. In Chapter 2, analysis methods for non stationary time series and simulation methods of earthquake ground motions are reviewed. In Chapter 3Hilbert Transform is briefly introduced and Relation for complex sequence is derived. In Chapter 4, HHT method introduced by Huang is briefly introduced. Process involved in EMD and various stoppage criteria are reviewed. How HHT applied in analysis of structure is discussed. In Chapter5, Application of HHT, plots of cubic spline, IMF and Hilbert Transform obtained by matlab and Ms-Exel were shown. In Chapter 6, conclusion and future scope of HHT is discussed. Various matlab functions were shown in Appendix A, Table 1 shows El-Centro earthquake data, local maxima and minima. Table 2 shows EMD decomposition of IMF.

Chapter 2

Literature Review

2.1 Analysis of Non-stationary Signal

For analysis of non-stationary signals, the most normally used methods are STFT (Short-time Fourier Transform) (also called physical spectrum or spectrogram) and Wavelet Transform (WT). STFT is a moving window Fourier Transform. It assumes stationarity in each window and the window shape and length have to be selected before the analysis. Because of the uncertainty principle, one cannot localize or resolve both time and frequency at the same time in a wave form to an arbitrarily high degree, therefore it has to compromise between time and frequency resolution.

Wavelet transform is basically a time-scale analysis, and not a real time-frequency analysis. The frequency of wavelets with different scales may be non-overlapping or overlapping. Similar to STFT, in wavelet transform also, the mother wavelet has to be selected previously and cannot be altered during the analysis. The significant step of selecting the mother wavelet for a particular signal requires a great amount of judgments. Wavelet analysis takes an uncertainty principle almost similar to the STFT. A high frequency component is exactly resolved in time domain, but at the same time imprecise in frequency domain and vice versa for low-frequency components. Additionally, continuous wavelets are not orthogonal even if one can make the wavelets orthogonal by selecting a discrete set of scaling factors to mother wavelet, the discrete wavelet analysis will not include physical signals having scale dissimilar from the selected discrete set. It was found that dependent on the resolution chosen, wavelet transform may only be capable of finding nonlinearities evolving over entire cycles of oscillations or subsequent significant changes in amplitude, termed supercyclic-oscillations. On the other hand, HHT (Hilbert Huang Transform) identifies all nonlinearities (sub-cyclic and super-cyclic) through a single instantaneous frequency measure. Because the mother wavelet of Morley wavelet transform has several oscillations, it is assumed that it is only suitable for detecting super-cyclic oscillations, not sub-cyclic oscillations.

The instantaneous bandwidth contains some information about the subcyclic-oscillation, but it is not as clear as the instantaneous frequency in HHT (Hilbert Huang Transform). And it is more complicated to interpret three plots: the wavelet spectrum, the Wavelet Instantaneous Frequency Spectrum, and the instantaneous bandwidth together than to interpret just only one plot of Hilbert Spectrum.

Importance of the EMD is the method by which it disintegrates signals over which Fourier Transforms stumble. Because of this, EMD keeps signals in their own domain. When a signal enters a new domain, certain characteristics change with original variable that are totally lost. While the signal may be perfectly retrieved, the signal cannot be analyzed in the new domain without this information. The EMD doesn't have this problem.

When EMD decomposes a time domain signal into IMFs, each mode function contains information about how the frequency of the original signal varies with time. Because of this reason EMD needs not presume pretension towards linearity or time invariance.

Table 2.1 Comparative summary of Fourier, Wavelet and HHT analyses.

	Fourier	**Wavelet**	**Hilbert**
Basis	a priori	a priori	adaptive
Frequency	convolution: global uncertainty	convolution: regional uncertainty	differentiation: local certainty
Presentation	Energy frequency	Energy time frequency	Energy time frequency
Nonlinear	no	no	yes
Non-stationary	no	no	yes
Feature Extraction	no	discrete: no continuous: yes	yes
Theoretical base	theory complete	theory complete	empirical

2.2 Simulation of Earthquake Ground Motion

As earthquake ground motions are highly arbitrary and structural behaviors are inelastic and nonlinear than that random vibration solutions are usually difficult to obtain. Normally, structural responses are functions of the ground excitation time-history. Scalar intensity measures such as spectral acceleration or displacement do not show adequately the effects of near source and those due to higher modes and other important structural response behaviors' caused by the ground motions, thus cannot effectively represent the earthquake demand on structures. For performance assessment of complex structural systems, time history analysis has played a more and more important role. For example, designs of base-isolated structures have included non-linear time history analysis provisions for many years. For time history analysis, simulation of earthquake ground motions is necessary.

Many models of simulation based on sample observations (earthquake records) have been anticipated in the past. For example, a stationary white noise model was first proposed (by Bycroft 1960), after that filtered white noise models to show the local site characteristics (Kanai 1957, Tajimi 1960, Housner and Jennings 1964). To eradicate the unwanted zero frequency content of Kanai-Tajimi spectrum, Clough and Penzien (1975) passed it through a high-pass filter. Wang and Kareem (2004) proposed a method by invoking the Wavelet and Hilbert Transform to simulate earthquake ground motions. The procedure is given as follows: first decompose the sample data into a set of sub components and the residue by means of wavelet transform. Then apply Hilbert transform to each sub components to obtain instantaneous frequency and instantaneous amplitude, then simulate the instantaneous frequency by Guassian distribution, then construct the new sample using the instantaneous amplitude and the simulated instantaneous frequency. The main difficulty of this method is that the instantaneous frequency is modeled by a stationary Gaussian process, which does not include the significant information of frequency change with time and the objective meanings of the simulated sub-components are not clear.

Chapter 3

Hilbert Transform

3.1 History of the Hilbert Transform

A conventional classical method to study of signals can include a spectral analysis depend on the Fourier transform and also on statistical analysis depend on a distribution of probabilities and other representations characteristic for random data. In 1946 Gabor defined a simplification of the Euler formula $e^{i\theta} = \cos\theta + i\sin\theta$ in the form of a complex function $x(t)= C(t) + i\hat{C}(t)$, where $\hat{C}(t)$ is the HT of C(t). In signal processing, the independent variable is time, this linked complex function is called as an analytic signal and the projection $\hat{C}(t)$ is called a conjugate of the original function C(t).

The HT applied to examine linear and non-linear vibrations. The HT appliance to the signal provide saddled information about an amplitude a(t), instantaneous phase θ(t) and frequency ω(t) of vibrations. The information was applicable when applied to the analysis of vibration motions.

3.2 Hilbert Transform Notation

The Hilbert Transform is one of the integral transforms (like Laplace and Fourier).It is named after David Hilbert, who 1st applied it to resolve a special case of the integral equations in the field of mathematical physics. The Hilbert Transform of the function x(t) is defined by an integral transform given below:

$$\hat{C}(t)= \frac{1}{\pi} PV \int_{-\infty}^{\infty} \frac{C(\iota)}{t-\iota} d\iota$$

For a possible singularity at t= ι, the integral has to be measured by a Cauchy principal value (PV). Analytical signal of C(t) is defined as a :

$$z(t) = C(t) + i\hat{C}(t) = a(t)e^{i\theta(t)}$$

where：

$a(t) = [C^2(t) + \hat{C}^2(t)]^{1/2}$

$\theta(t) = \tan^{-1}[\hat{C}(t) / C(t)]$

3.3 Hilbert Transform Relations for Complex Sequences

Complex sequences are being considered for which real and imaginary component can be correlated through a discrete complexity similar to the Hilbert transform relation. These relation are predominantly useful in indicating band-pass signal in a manor completely analogues to analytical signal of continuous time signal theory.

It is possible to compute the derivation of Hilbert transform relation on a notation of causality (one sidedness). In relating the real and imaginary part of complex sequence, causality will be applied to furrier transform of the sequence. We cannot naturally require that the Fourier transform be zero for $\omega < 0$,given that it must be periodic, in its place we consider sequence for which Fourier transform is zero in the second half of every period. The z-transform as zero on bottom half ($-\pi \leq \omega < 0$) of the unit circle. Thus with x[n] representing the sequence and $X(e^{j\omega})$ its Fourier transform, we need that $X(e^{j\omega})=0$ for ($-\pi \leq \omega < 0$). The sequence x[n] analogous to $X(e^{j\omega})$ must be complex, since if x[n] were real, $X(e^{j\omega})$ would be conjugate symmetric i.e. $X(e^{j\omega})= X^*(e^{j\omega})$. Therefore we express x[n] as: $x[n] = x_r[n] + jx_i[n]$ were $x_r[n]$ and $x_i[n]$ are real sequence. In continuous time signal theory, the similar signal is an analytic function thus is called an analytic signal. If $X_r(e^{j\omega})$ and $X_i(e^{j\omega})$ denote the Fourier transform of the real sequence $x_r[n]$ and $x_i[n]$ respectively then:

$X(e^{j\omega})= X_r(e^{j\omega}) +X_i(e^{j\omega})$

And it follows that

$X_r(e^{j\omega}) = \frac{1}{2}[X(e^{j\omega})+ X^*(e^{j\omega})]$

$X_i(e^{j\omega}) = \frac{1}{2}[X(e^{j\omega}) - X^*(e^{j\omega})]$

Given expression for $jX_i(e^{j\omega})$ which is Fourier transform of imaginary signal $jx_i[n]$. Note that $X_r(e^{j\omega})$ and $X_i(e^{j\omega})$ are both complex valued function in general and complex transform $X_r(e^{j\omega})$ and $jX_i(e^{j\omega})$ play the role of even and odd part of the causal sequences.

Though, $X_r(e^{j\omega})$ is conjugate symmetric i.e. $X_r(e^{j\omega}) = X_r^*(e^{j\omega})$. In the same way $jX_i(e^{j\omega})$ is conjugate anti-symmetric i.e. $jX_i(e^{j\omega}) = jX_i^*(e^{-j\omega})$.

Figure represents an example of complex one sided Fourier transform of a complex sequence $x[n] = x_r[n] + jx_i[n]$ and the consequent two sided transform of the real sequence $x_r[n]$ and $x_i[n]$.

In particular, relation is developed between $X(e^{j\omega})$, $X_r(e^{j\omega})$ and $X_i(e^{j\omega})$

$$X(e^{j\omega}) = \begin{cases} 2Xr\left(e^{j\omega}\right) & 0 \le \omega < \pi \\ 0 & -\pi \le \omega < 0 \end{cases}$$

$$X(e^{j\omega}) = \begin{cases} 2jXi\left(e^{j\omega}\right) & 0 \le \omega < \pi \\ 0 & -\pi \le \omega < 0 \end{cases}$$

On the other hand we can relate $X_r(e^{j\omega})$ and $X_i(e^{j\omega})$ directly by

$$X(e^{j\omega}) = \begin{cases} -jXr\left(e^{j\omega}\right) & 0 \le \omega < \pi \\ jXr\left(e^{j\omega}\right) & -\pi \le \omega < 0 \end{cases}$$

$$X_i(e^{j\omega}) = H(e^{j\omega})\, X_r(e^{j\omega})$$

$$H(e^{j\omega}) = \begin{cases} -j & 0 \le \omega < \pi \\ j & -\pi \le \omega < 0 \end{cases}$$

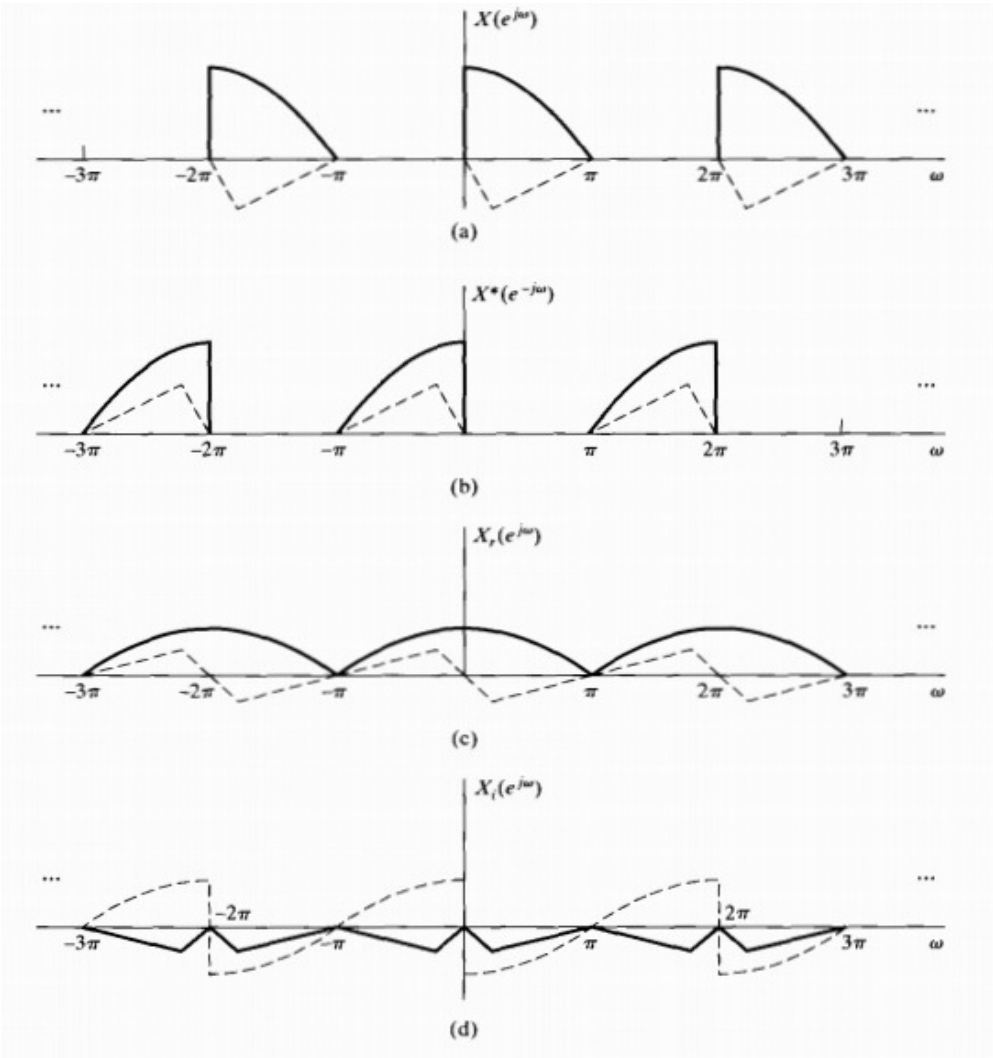

Figure 3.1 Illustration for decomposition of one sided Fourier Transform

(solid curves are real part and dashed curves are imaginary parts)

Now $X_i(e^{j\omega})$ is Fourier transform of $x_i[n]$, the imaginary part of x[n] and $X_r(e^{j\omega})$ is the Fourier transform of $x_r[n]$, the imaginary part of x[n]. Therefore $x_i[n]$ can be obtained by processing $x_r[n]$ with the linear time- invariant discrete time system with frequency response $H(e^{j\omega})$.This frequency response has unity magnitude, a phase angle of $-\pi/2$ for $0 \leq \omega < \pi$, and phase angle of $+\pi/2$ for $-\pi \leq \omega < 0$. This type of system is called an ideal 90° phase shifter. on the other hand, it is clear that we are considering an operation on a sequence, the 90° phase shifter is also called a Hilbert transform.

$X_r(e^{j\omega})= (1/H(e^{j\omega}))\ X_i(e^{j\omega})= -H(e^{j\omega})*X_i(e^{j\omega})$.

Thus $-x_r[n]$ can also be obtained from $x_i[n]$ with 90° phase shifter.

Chapter 4

Hilbert Huang Transform (HHT)

4.1 Introduction

The earthquake response observation is a primary mean of studying the structural damage and response process under earthquake excitation, investigating the existing seismic design theories and methods of structures. It is similar to the prototype tests that Engineering structures subjected to earthquakes previously and obtained seismic response records, the shaking-table model test is complicated to simulate the behaviors' of structure in earthquake. Therefore, operating seismic research by strong earthquake record has been paid adequate attention.

For a long time, the methods of processing seismic records most commonly used in earthquake engineering field are:

- Fourier transform
- Wavelet analysis

But these two methods are basically based on stationary signals, when processing on-stationary signals like seismic records may cause some serious problems, such as energy leaks.HHT (Hilbert-Huang transform) method, presented by Huang of National Aeronautics and Space Administration (NASA), America in 1998, is well suited for processing non-stationary signals and considered as a major revolution and transformation in the field of signal processing. Now HHT method has been applied in various fields such as earthquake data analysis, damage identification, structure health diagnosis, system identification, damage detection and has achieved good results.

Huang et al (1998) introduced a method for analysis of non-stationary time series based on Hilbert Transform. A time series can be disintegrate into a series of Intrinsic Mode Functions (IMF). An IMF is defined as a time series which satisfies two requirements:

- Its number of extrema and number of zero crossings must either be equal or differ by one.
- The mean value of the envelopes defined by the local maxima and minima is zero.

The extraction of IMFs from a time series requires a repeated sifting procedure called EMD (Empirical Mode Decomposition). EMD is described as to connect all the local minima by a cubic spline as the lower envelope and connect all the local maxima by a cubic sp-line as the upper envelope. Then compute the mean (average) of the maxima and minima envelopes and subtract the mean from the time series.

The shifting process serves two purposes:

- to eliminate riding wave
- to make the wave profile more symmetric.

While the first purpose must be achieved for the Hilbert transform to give significant instantaneous frequency. The second purpose must also be achieved in case the neighboring wave amplitude has too large disparity.

4.2 Empirical Mode Decomposition

EMD (Empirical Mode Decomposition) has been widely used to analyze non stationary and non-linear signal by disintegrating data into series of IMFs(intrinsic mode functions) through sifting processes. The implementation of EMD is still empirical. EMD is a method of breaking a signal without leaving the time-domain. It can be compared to other analysis methods like wavelet decomposition and Fourier Transforms. The process is applicable for analyzing natural analytical signals, which are both non linear and non stationary. EMD filters out functions which form a nearly and complete orthogonal basis for the original signal. The functions called IMFs (Intrinsic Mode Functions) are sufficient to illustrate the signal, although they are not necessarily orthogonal. The functions into which a signal is decomposed are all in the time-domain and of the same length as the original signal allows for varying frequency in time to be conserved. IMFs obtained from earthquake signals are important because natural processes often have multiple cases and each of these cases may occur at specific time intervals. This type of data is used in an EMD analysis, but quite hidden in Fourier domain or wavelet coefficients.

4.2.1 Process involved in EMD

EMD as originally proposed is implemented through a sifting process that is summarized as follows:

- For any given data, $x(t)$, we identify all the local extrema.
- Individually connect all the maxima and minima with natural cubic spline lines to form the upper $u(t)$, and lower $l(t)$, envelopes.
- Find the mean of the envelopes as $m(t) = [u(t) + l(t)]/2$.
- Take the difference between the data and the mean as the IMF, $h(t) = x(t) - m(t)$.
- Check the IMF against the definition of IMF and the stoppage criterion to determine if it is an IMF.

Each of these oscillatory modes is shown by an IMF (intrinsic mode function) with the following definition:

- The number of extrema and the number of zero crossings must either equal or differ at most by one.
- At any point, the mean value of the envelope defined by the local maxima and the envelope defined by the local minima is zero.

- If the IMF does not satisfy the above given definition, repeat step 1 to 5 on $h(t)$ as many time as needed till it satisfies the condition of IMF.
- If the IMF does satisfy the definition, assign the IMF as an IMF component, $c(t)$.
- Repeat the operation step 1 to 7 on the residue, $r(t) = x(t) - c(t)$.
- The operation ends when the residue contains no more than one extremum.

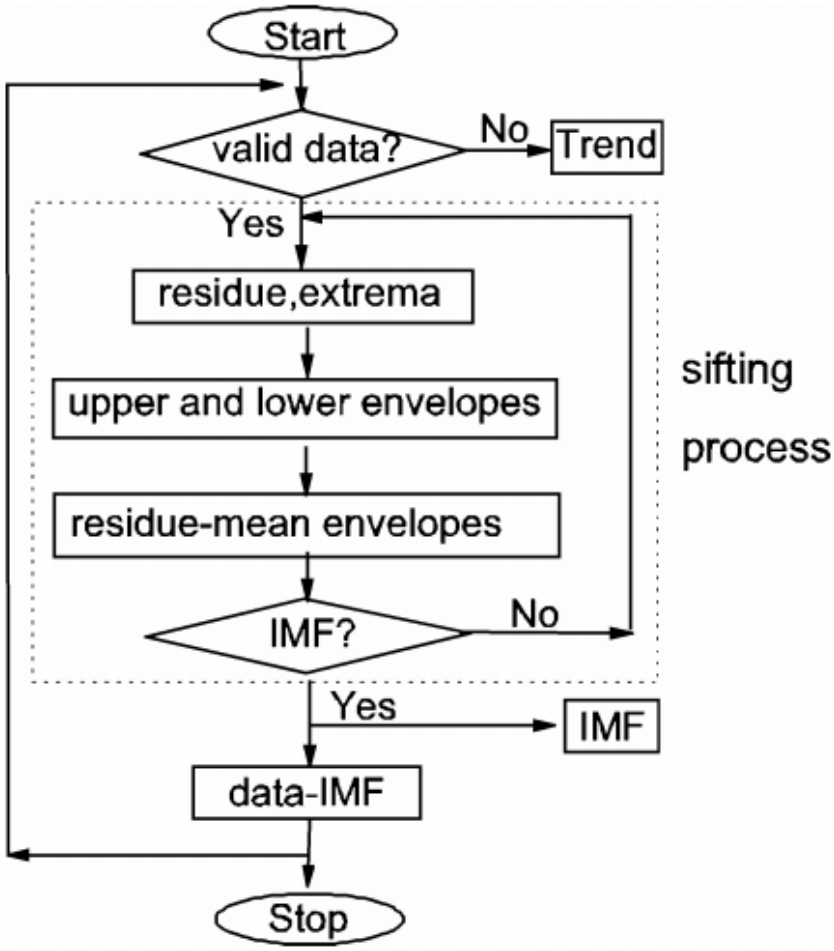

Figure 4.1 The flow chart of the decomposition process of EMD

4.2.2 Local Maxima, Local Minima and Inflection Points

Let f be a function defined on an interval $[a,b]$ or (a,b), and let p be a point in (a,b), i.e., not an endpoint, if the interval is closed.

- If $f(p) \leq f(x)$ then f has a ***local minimum*** at p for all x in a small interval around p.
- If $f(p) \geq f(x)$ then f has a ***local maximum*** at p for all x in a small interval around p.
- If f is concave down on one side of p and concave up on another *then* f has an ***inflection point*** at p if the concavity of f changes at p.

We assume that $f'(p) = 0$ is only at isolated points not everywhere on some interval. This makes things simpler, as then the three terms defined above are mutually exclusive. Looking at the first (and possibly second) derivative of f in some small interval around p. This interval may be as small as we desire, as long as its size is greater than 0.

Table 4.2

Information about f at p from the first and second derivatives in a small interval around p

f '(p)	Change in f '(x) as x moves from left to right of p	At p, f has a.....
0	f '(x) changes from negative to positive at p	Local minimum
0	f '(x) changes from positive to negative at p	Local maximum
0	f '(x) has the same sign on both sides of p. (Implies f "(p) = 0.)	Inflection point

f '(p)	f "(p)	Change in f "(x) as x moves from left to right of p	At p, f has a_____
nonzero	0	f "(x) changes sign at p.	Inflection point
nonzero	0	f "(x) has the same sign on both sides of p.	None of the above. (However, f ' has an inflection point at p.)

4.2.3 Cubic Sp-lines Interpolation

To draw a smooth curve throughout varying data points those are not subject to error. Mathematically, it is feasible to create cubic functions $S_k(x)$ on each interval $[x_k , x_{k+1}]$ so that the resulting piecewise curve y = S(x) and its first and second derivatives are all continuous on the larger interval $[x_0, x_n]$. The continuity of S'(x) shows that the graph y = S(x) will not have sharp corners. The continuity of S''(x) shows that the radius of curvature is exist at each point. That the piecewise cubic spline signifies a smooth continuous function. Property states that the second derivative of the resulting function is also continuous.

We start from a table of points $[x_i,y_i]$ for i=1,2,3……n for the function y=f(x). That makes n+1 points and n intervals in between them. The cubic sp-line interpolation is a piecewise continuous curve, passing through each of the local maxima or minima computed in the table. There is a separate cubic polynomial for each interval, each with its own respective coefficients:

$Si(x) = a_i(x-x_i)^3 + b_i(x-x_i)^2 + c_i(x-x_i)^2 + d_i$ for x belongs to $[x_i, x_{i+1}]$.

These polynomial segments are represented as S(x), the sp-line. As there are n intervals and four coefficients for each we require a total of 4n parameters to define the sp-line S(x). We need to find 4n independent conditions to solve them. We get two conditions for each interval from the constraint that the cubic polynomial matches the values of the table at both ends of the interval:

$S_i(x_i)=y_i$, $S_i(x_{i+1})=y_{i+1}$

Note that these setting result in a piecewise continuous function. We still need 2n more conditions to compute equation. To make the interpolation as smooth as possible, we need that the first and second derivatives also be continuous:

$S'_{i-1}(x_i)=S'_i(x_i)$, $S''_{i-1}(x_i)= S''_i(x_i)$.

These conditions apply for i=1,2,3,4…..n-1 , resulting in 2(n-1) constraints. So we need two more conditions to completely compute the sp-line. There are some standard options left to the user:

- "Natural" : $S'_0(x_0)= 0$, $S''_{n-1}(x_n)= 0$
- "Clamped" : $S'_0 (x_0)= f'(x_0)$, $S'_{n-1}(x_n)= f'(x_n)$

Other options are available if the function is periodic. With 4n coefficients and 4n linear conditions it is straight-forward to work out the equations that determine them. The conditions can be reduced easily to a tri-diagonal system with the c_i coefficients as the unknowns. On solving, the remaining coefficients are easily computed. There are many good codes in the public domain. Cubic sp-lines are acceptable because they are simple to implement and produce a curve that appears to be faultless. As we have seen, a linear polynomial interpolation of evenly spaced data tends to build in distortions near the edges of the local maxima and minima. Cubic sp-lines avoid this difficulty, as they are only piecewise continuous, denotes that a third derivative is discontinuous. So if the application is sensitive to the smoothness of derivatives higher than second, cubic splines may not be the best choice.

Local maxima are connected with the cubic sp-lines:

$y = p_1*x^3 + p_2*x^2 + p_3*x + p_4$

4.3 Stoppage Criterion

In EMD, many different stoppage criteria were proposed. By sensibly select the stoppage criteria, EMD had produced useful land informative results. All the presently available stoppage criteria can be classified as follows:

- **The Cauchy type criterion**

  The Cauchy type criterion was initially introduced by Huang et al. [1998]. The sifting process will stop when the difference SD defined as is smaller than a preset value.

$$SD = \sum_{t=0}^{T} \frac{[h_{k-1}(t) - h_k(t)]^2}{h_{k-1}^2(t)}$$

  According to this definition, the convergence condition could be fixed mathematically as follows: For any given small number, S there exist a large number L of iterations such that SD < S whenever the iteration of sifting number, K is larger than L. The convergence condition is satisfied empirically, but precise prove is still lacking. The above condition is a global property as it is an integrated condition over the whole data set. The SD value so defined is closely influenced by small IMF values at particular locations. To make this criterion more stable, variation is defined as

$$SD = \frac{\sum_{t=0}^{T} h(t) - h(t)]^2}{\sum_{t=0}^{T} h_{k-1}^2(t)}$$

  Another variation along this line is to have SD defined as to be small everywhere.

$$SD = \frac{[h_{k-1}(t) - h_k(t)]^2}{h_{k-1}^2(t)}$$

  Although this definition is more local, it also influenced by the local-small value of the IMF. All the above definition and variations cannot guarantee the results are indeed IMFs, for satisfying this condition has nothing to do with the numbers of zero crossings and extrema or the symmetry of the envelope. To solve this situation, there are two more new methods.

- **The mean value criterion**

  This was proposed by Flandrin [2004], in which the SD defined as single term in $SD = m_{i,k}(t)$. The sifting will stop when SD is smaller than a pre assigned value everywhere. This definition is better than the Cauchy condition. It would force the envelopes to be symmetric. It is related to the definition of IMF by requiring the mean (average) of envelopes to be small. Therefore, it satisfies one of the two critical features of IMF.

- **The S number criterion**

  This was proposed by Huang et al. [2003], which is related to another definition of IMF. To employ this definition, one needs to calculate the number of zero crossings and extrema. The S number is defined as the number of consecutive sifting iterations in which the number of extrema and zero crossings are equal or differ by one. Each of the above methods satisfies only one condition of the IMF definition. All of them were depends on a fussy approximation assumption. It realized that over-sifting will disturb the physical meaning in the IMF severely, and under-sifting would not generate satisfactory IMFs. All the above criteria produce a wrong result that the needs should be set at a more rigid level with smaller SD value and larger S numbers. Huang et al. [2004], point-out that the more stringent condition on S number would not produce better results. In a more detailed study by Wu and Huang [2009] and Wu and Huang [2010] it was further pointed out that by changing the criterion, different number of IMFs could be obtained.

4.4 Spline problems (the best spline implementation for HHT and Convergence)

EMD (Empirical Mode Decomposition) is used to extract variations from the data by extricating the mean of local maxima and local minima envelop, in this case the local mean, from the fluctuations by using sp-line interpolation. This approach is totally acceptable. First, among all the spline methods, which one is the best spline interpolation? The answer to this question is critical, for it can be shown easily that all the IMFs other than the first are a summation of spline functions, it follows that

$c_1 = x(t) - (m_{1k} + m_{1(k-1)} + ... + m_{11} + m_1)$,

in which all m functions are generated by sp-lines.

Therefore,

$r_1 = x(t) - c_1 = m_{1k} + m_{1(k-1)} + ...+ m_{11} + m_1$

is totally determined by splines. Subsequently, all the IMFs are also totally determined by sp-line functions. What kind of spline is the best? N. E. Huang fit for the EMD? How can one quantify the selection of one spline vs. another? It was found that the higher-order spline functions needed additional determined parameters, yet the requirement violates the adaptive spirit of the approach. Furthermore, higher-order spline functions could also introduce unknown coefficients, and they are also more time taking in computations.

Why only the cubic sp-line was taken? However, the possible advantages and disadvantages of higher order sp-lines have not been definitively recognized and quantified. Finally, the convergence of the EMD method is also a complex issue. Is there an assurance that in finite defined steps, a function can always be disintegrated into a finite number of IMFs? All insightful reasoning and experience propose that the procedure is converging. The simplified and restricted case studied involved sifting with middle points only. With additional restriction of the middle point sifting to linearly interpolate extrema, the convergence-proof can become absurd, and it can be shown that number of extrema of residue function has to be less than or equal to that in the original function. This case of equality exists only when the oscillation amplitudes in the data are either monotonically increasing or decreasing.

4.5 Instantaneous Amplitude and Frequency

After taking the Hilbert transform of IMF z(t) is defined by

$z(t) = C(t) + i\hat{C}(t) = a(t)e^{i\theta(t)}$

where,

Instantaneous Amplitude is given by:

$a(t) = [C^2(t) + \hat{C}^2(t)]^{1/2}$

Instantaneous frequency is given by:

$\theta(t) = \frac{1}{2\pi}\tan^{-1}[\hat{C}(t) / C(t)]$

Instantaneous angular frequency given by:

$\omega(t) = \frac{d}{dt}\tan^{-1}[\hat{C}(t) / C(t)] = \frac{C(t)\,\mathrm{d}\hat{C}(t) - \hat{C}(t)\mathrm{d}C(t)}{a2(t)}$

4.6 Three dimensions time-frequency spectrum

After Hilbert transform, the amplitude and frequency are functions of time. The three dimensions time-frequency spectrum $H(\omega,t)$ of original signal $x(t)$ can be got by displaying amplitude of all IMFs on the frequency-time plane. It is also called Hilbert Amplitude Spectrum.

4.7 Marginal Spectrum

Marginal spectrum represents the accumulated amplitude of each frequency point throughout the whole time. $h(\omega)$ can be defined as follows:

$h(\omega) = \int_0^t H(\omega, t)$

4.8 Instantaneous Energy Spectrum

The instantaneous energy spectrum represents signal energy changing with time. Instantaneous energy spectrum can be defined by:

$IE(t) = \int_\omega H^2(\omega, t)\mathrm{d}\omega$

4.9 Hilbert Energy Spectrum

The Hilbert energy spectrum represents the total energy of each frequency point, which expresses accumulated energy throughout the whole time.

$HE(\omega) = \int_0^t H^2(\omega, t)\mathrm{d}\omega$

4.10 How HHT can be applied in Analysis of Structure

Taking the strong motion records of El Centro (Imperial Valley) Earthquake, the time-frequency characteristics of records on different sites (bedrock site, deep soft soil site, and structural site) are analyzed correspondingly by HHT method. By analyzing these results, the seismic response characteristics of deep deposit soil layers and the SSI effect to structure seismic response are calculated. Then a 7-story Reinforced Concrete frame structure is selected as an example, the finite element model of Soil Structure Interaction system is created and analyzed below the excitation of bedrock acceleration records by the ANSYS program. After that comparing the calculated results with the recorded data, the factors that affect the model correctness in numerical simulation of SSI system seismic response are compared.

Chapter 5

Application of HHT

5.1Vibration-data El Centro Earthquake

- Station: El Centro, CA - Array Sta 9; Imperial Valley Irrigation District – 302 Commercial
- Station Owner: United States Geological Survey
- Station Latitude & Longitude: 32.7940, -115.5490
- Earthquake: El Centro 1940-05-19 04:36:41 UTC
- Hypocentral Distance: 12.2 km

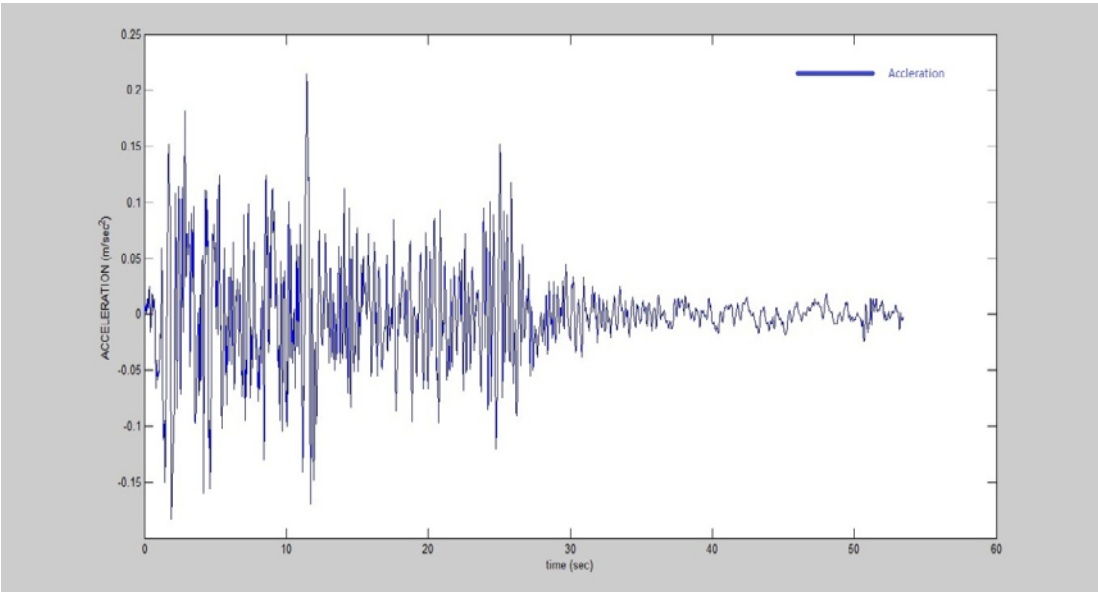

Figure 5.1 East-West Earthquake acceleration vs time El-Centro data

5.2 USGS Description of the El Centro (Imperial Valley) Earthquake

- At Imperial, 80% of the buildings were damaged to some degree.

- The shock caused 40 miles of surface faulting on the Imperial Fault, part of the San Andreas system in southern California.
- Total damage has been estimated at about $6 million.
- The magnitude was 7.1.

East West earthquake data is represented in the figure shown below and the table 1 show the variation of acceleration with time.

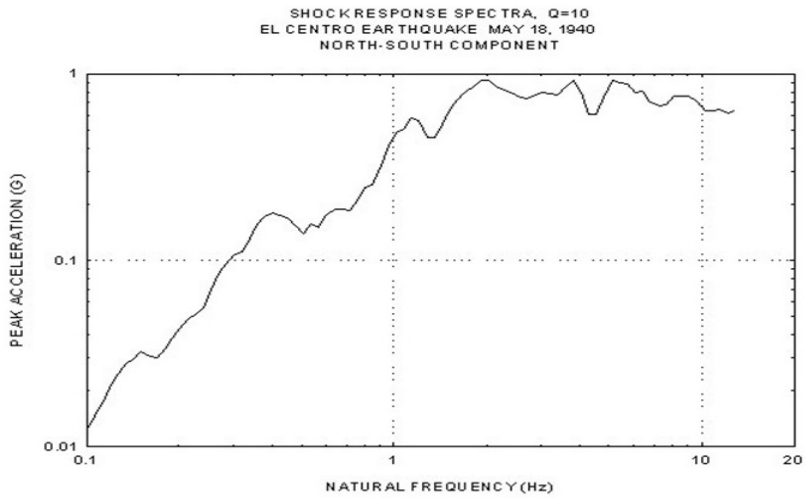

Figure 5.2 Shock Response Spectra El-Centro Earthquake

5.3 Steps involved in EMD

- **Step-1:** Find out local minimum and local maximum value.

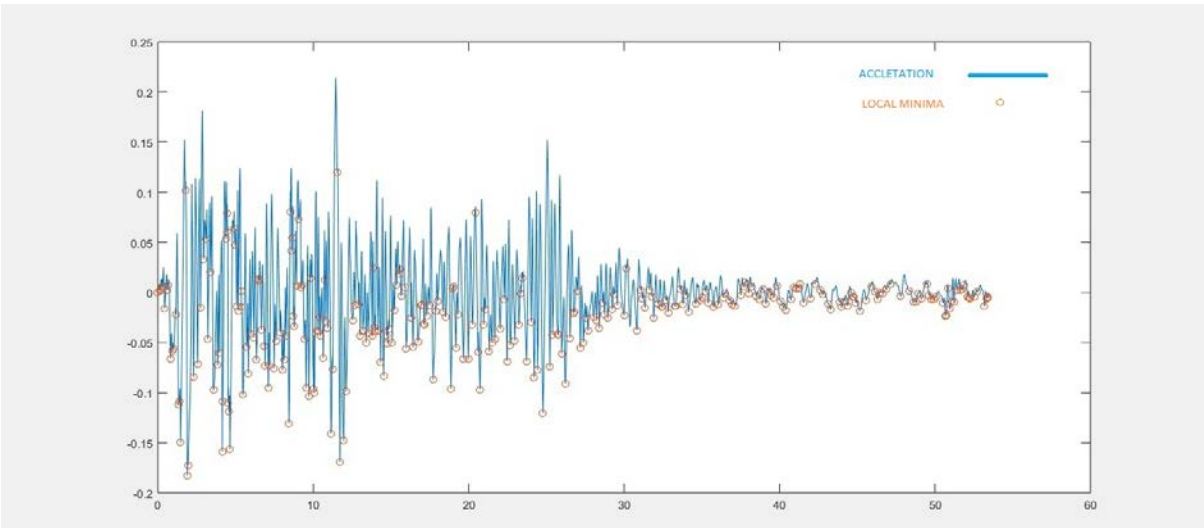

Figure 5.3 plot of local Minima

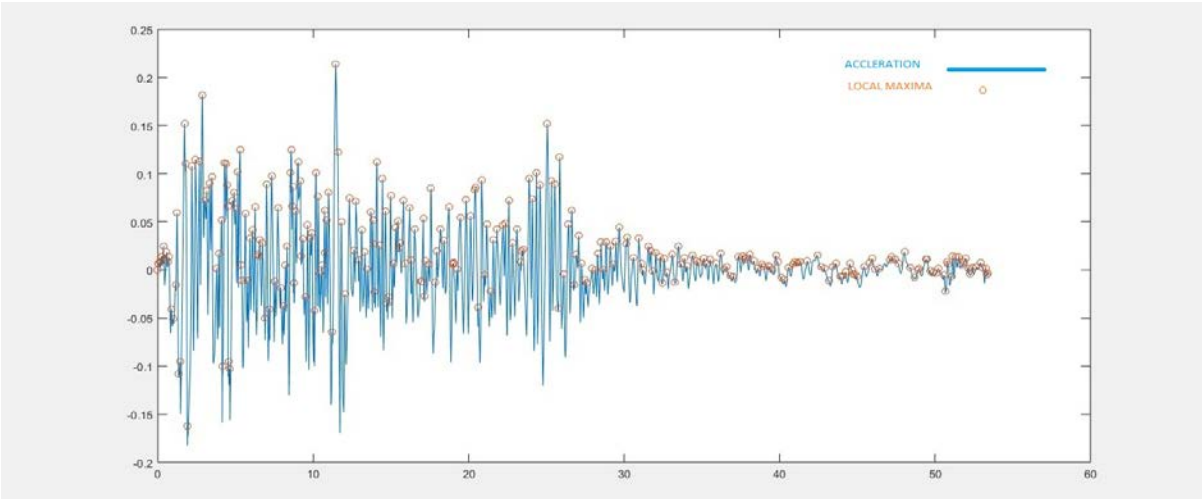

Figure 5.4 plot of local Maxima

- **Step-2:** Find the upper envelop and lower envelop.

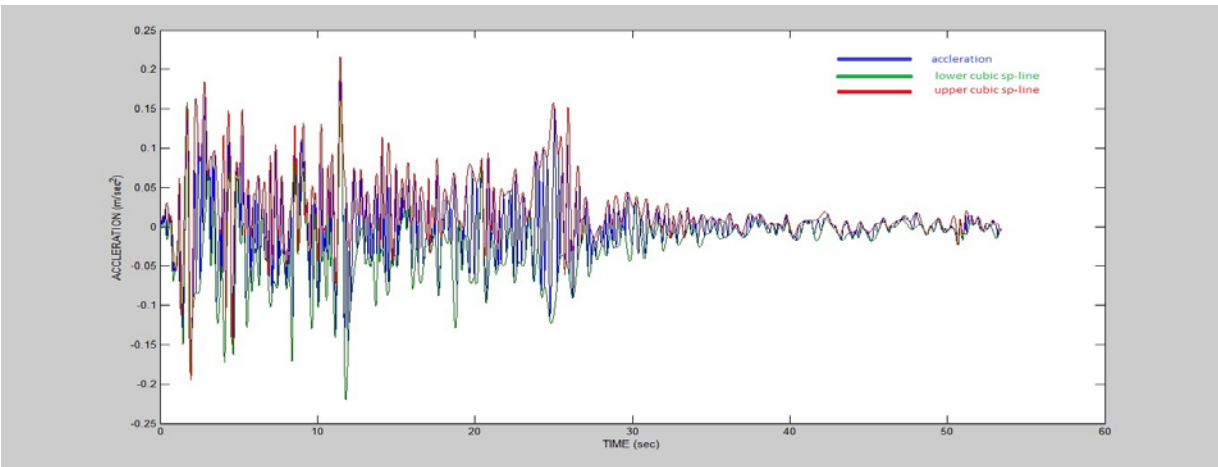

Figure 5.5 Plot of acceleration vs time, lower cubic sp-line and upper cubic sp-line.

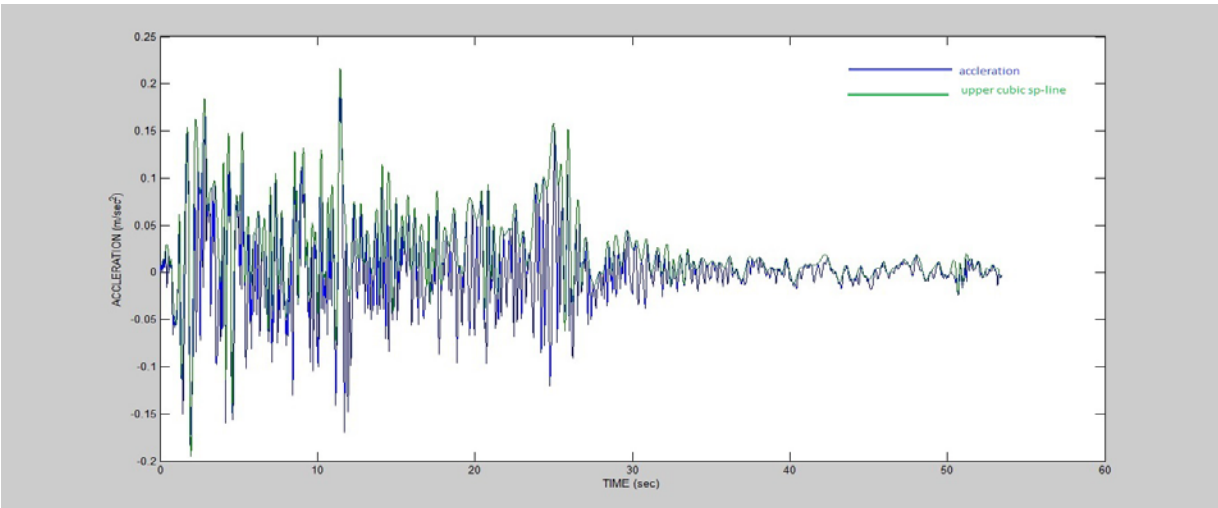

Figure 5.6 Plot of acceleration vs time and upper cubic sp-line.

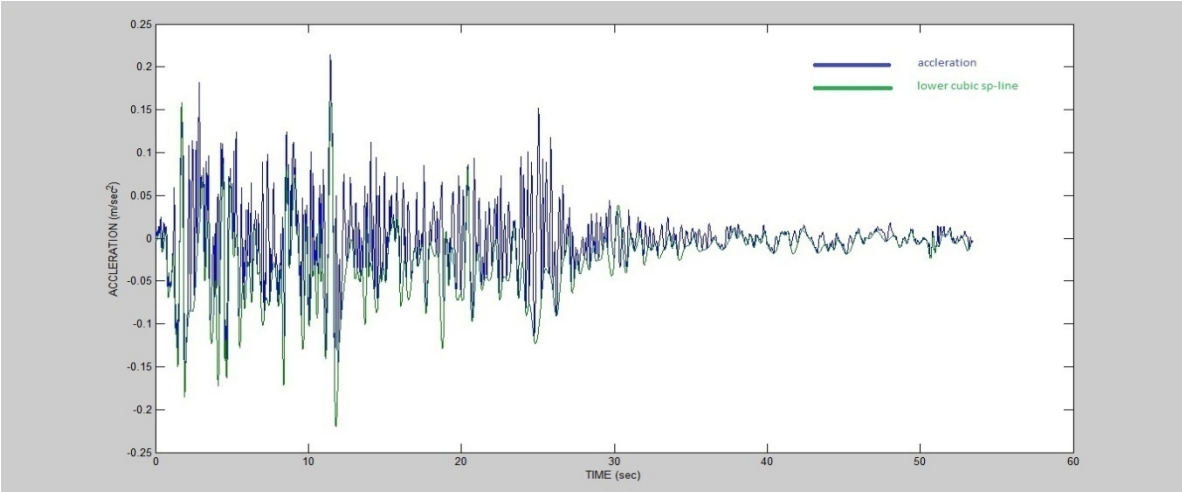

Figure 5.7 Plot of acceleration vs time and lower cubic sp-line.

- **Step-3** Plot of acceleration vs time and mean of lower minima and upper maxima.

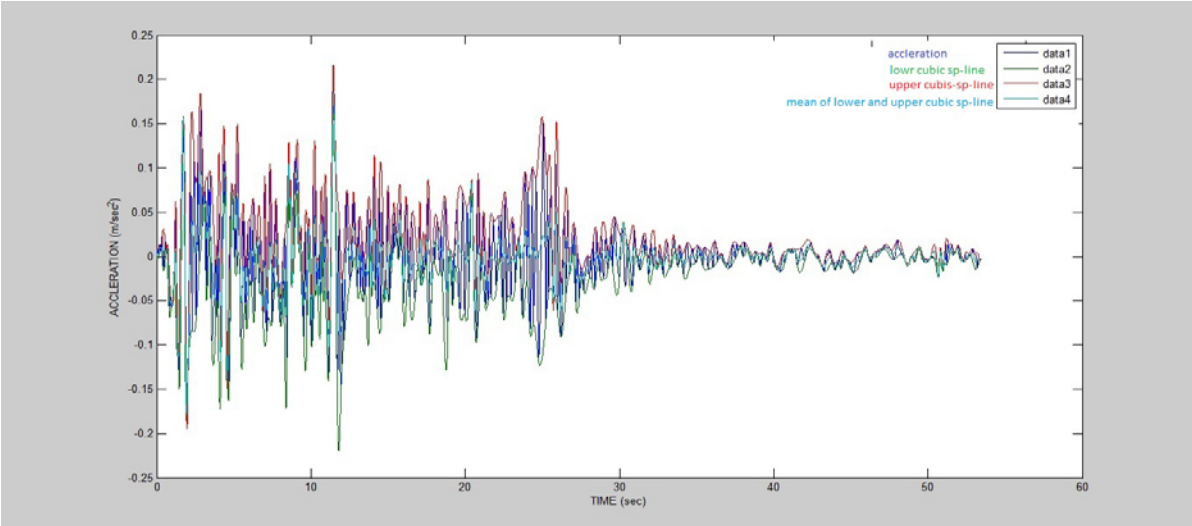

Figure 5.8 Plot of acceleration vs time and mean of lower and upper maxima.

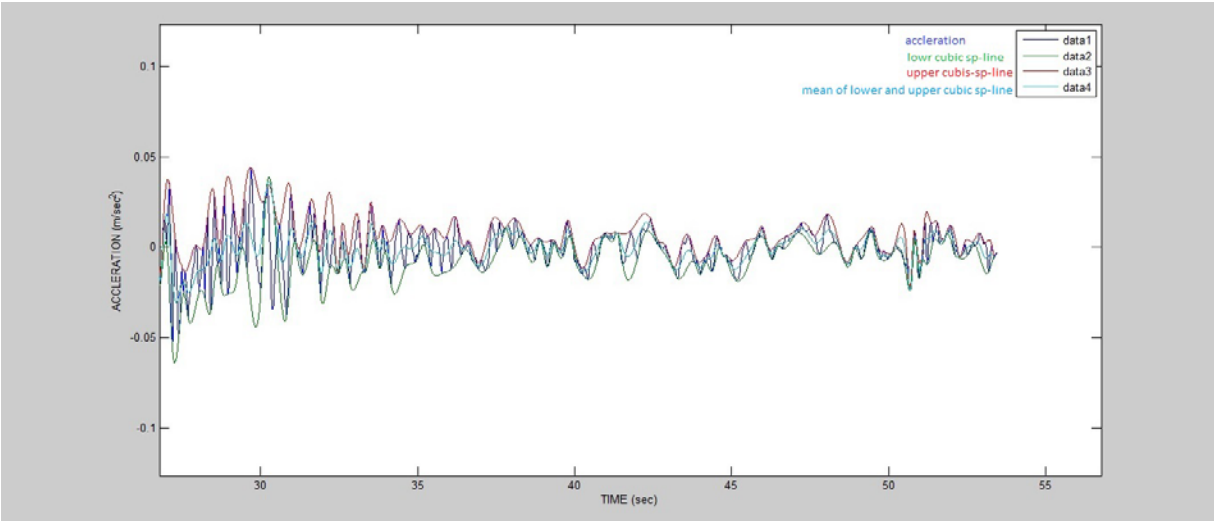

Figure 5.9 Plot of acceleration vs time and mean of lower and upper maxima.

- **Step-4** Empirical Mode Decomposition (EMD)

  As we have an IMF, c(t) extracted from a signal x(t), from the upper and lower envelopes u(t) and l(t) and the mean m(t). All these functions are piecewise cubic spline curves. If c(t) satisfies the definition of IMF we get the exact IMF.

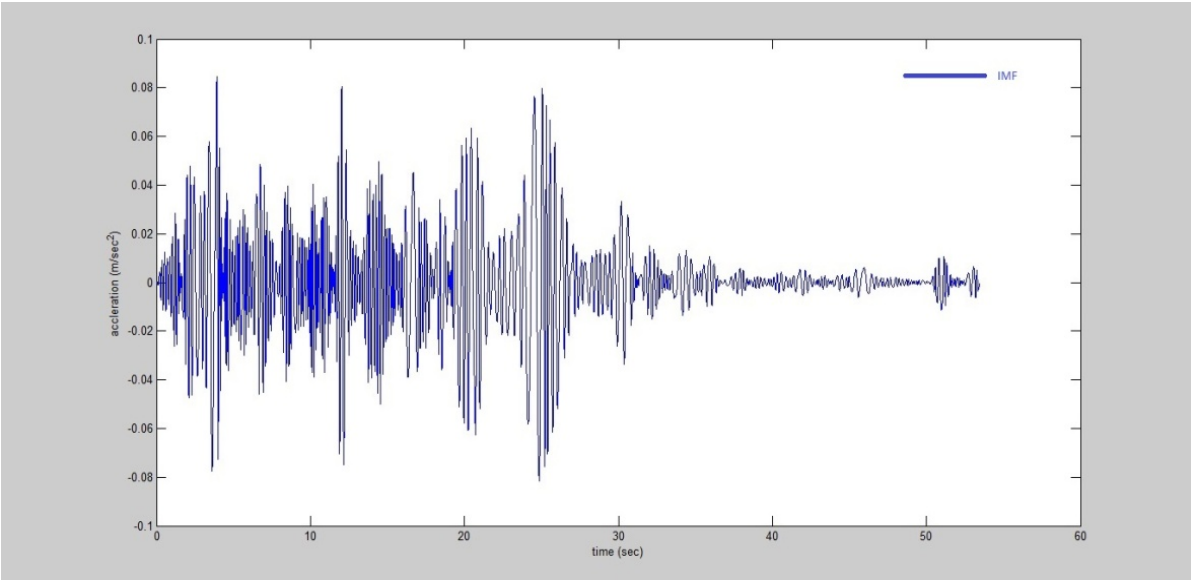

Figure 5.10 Plot of Intrinsic Mode Function 1.

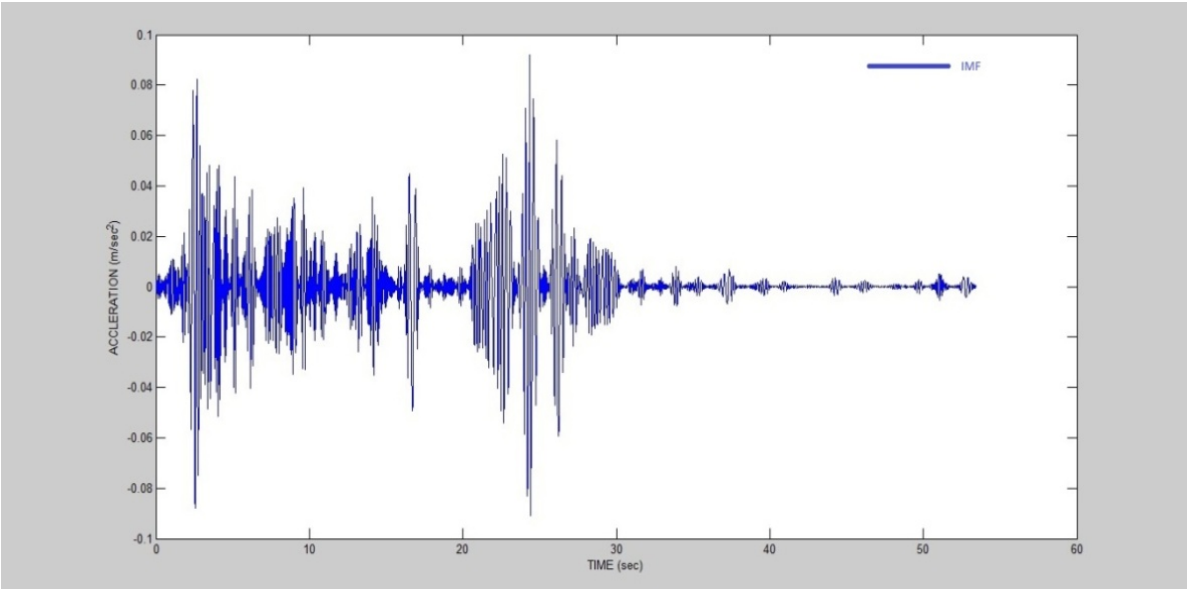

Figure 5.11 Plot of Intrinsic Mode Function 2.

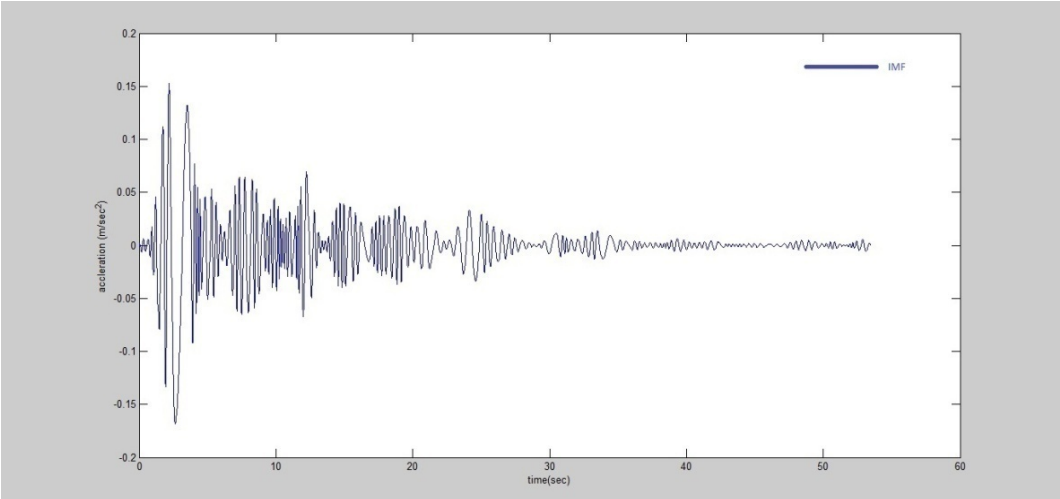

Figure 5.12 Plot of Intrinsic Mode Function 3.

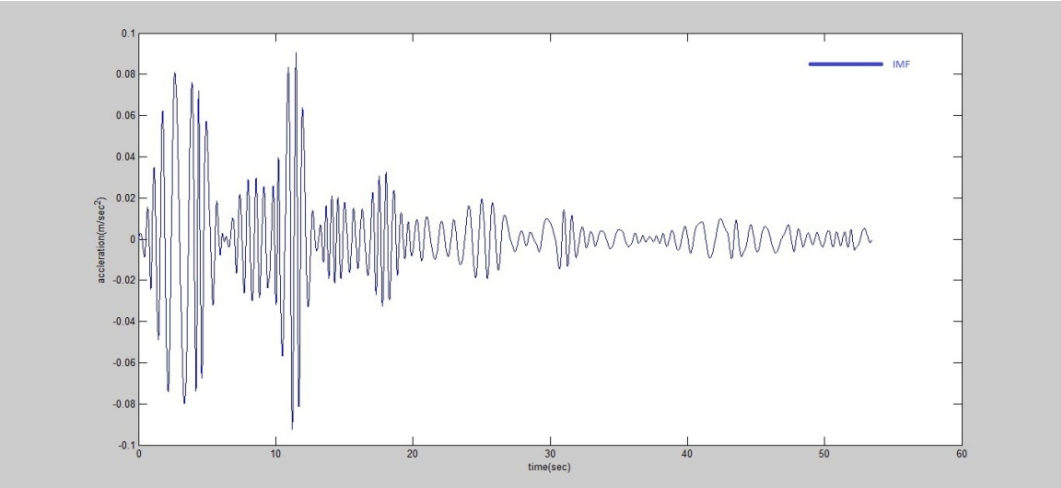

Figure 5.13 Plot of Intrinsic Mode Function 4.

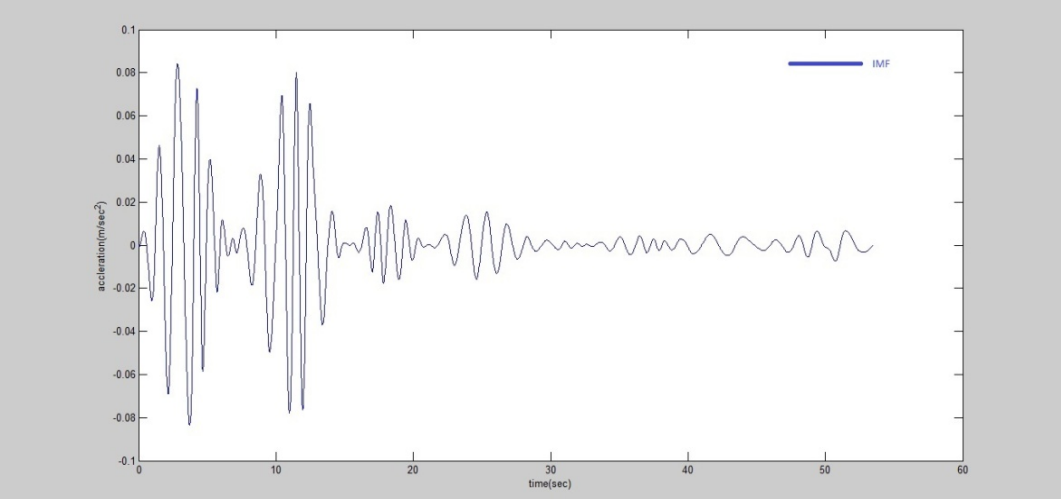

Figure 5.14 Plot of Intrinsic Mode Function 5.

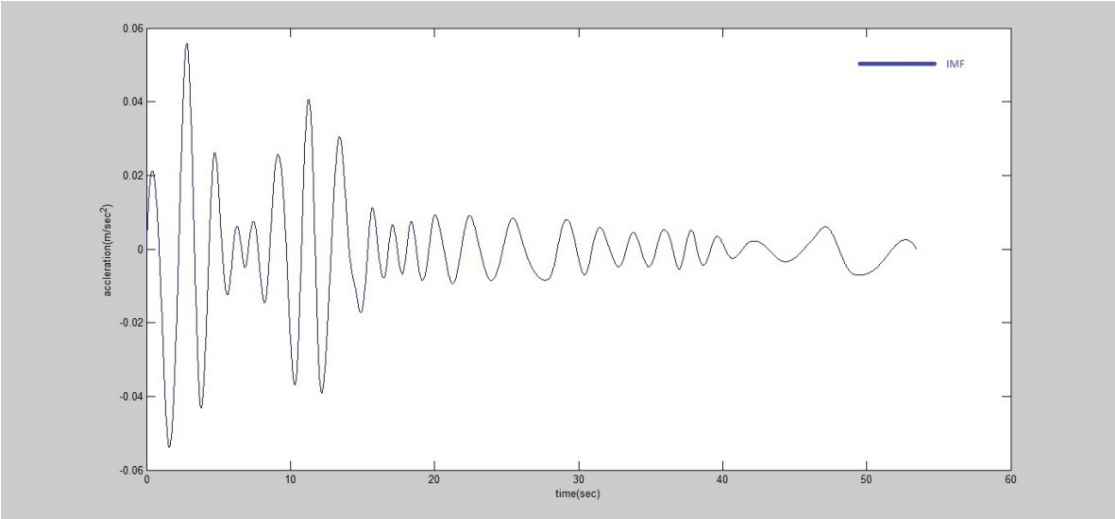

Figure 5.15 Plot of Intrinsic Mode Function 6.

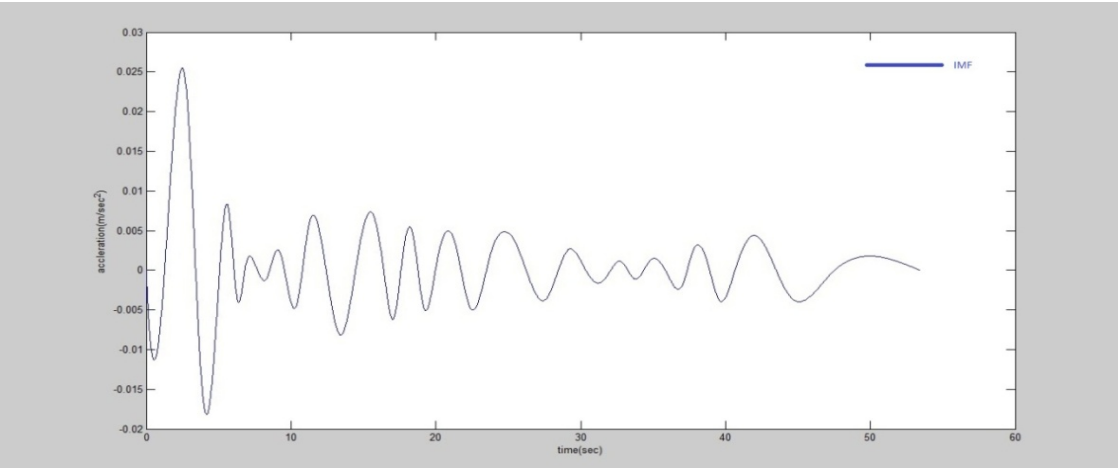

Figure 5.16 Plot of Intrinsic Mode Function 7.

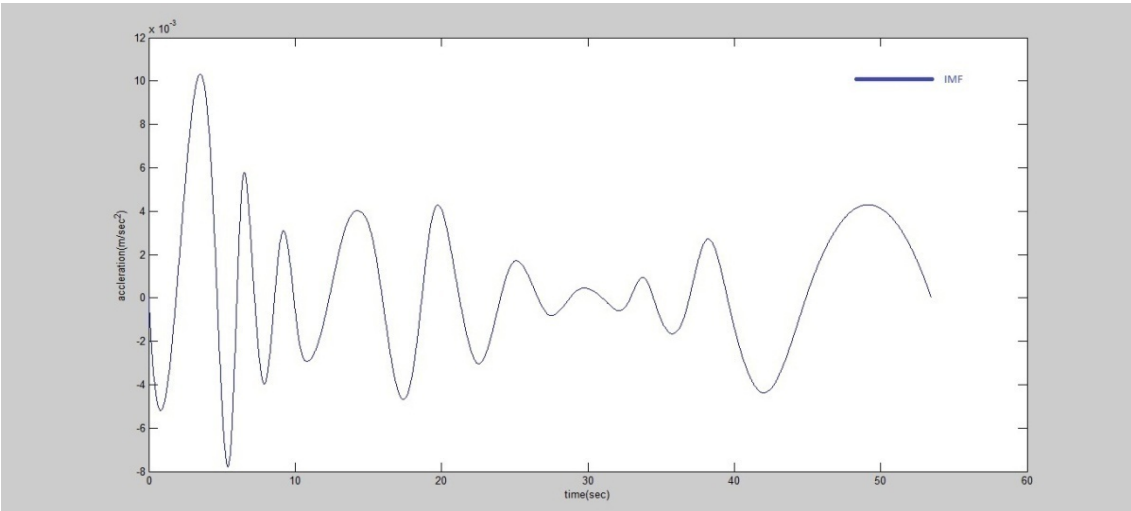

Figure 5.17 Plot of Intrinsic Mode Function 8.

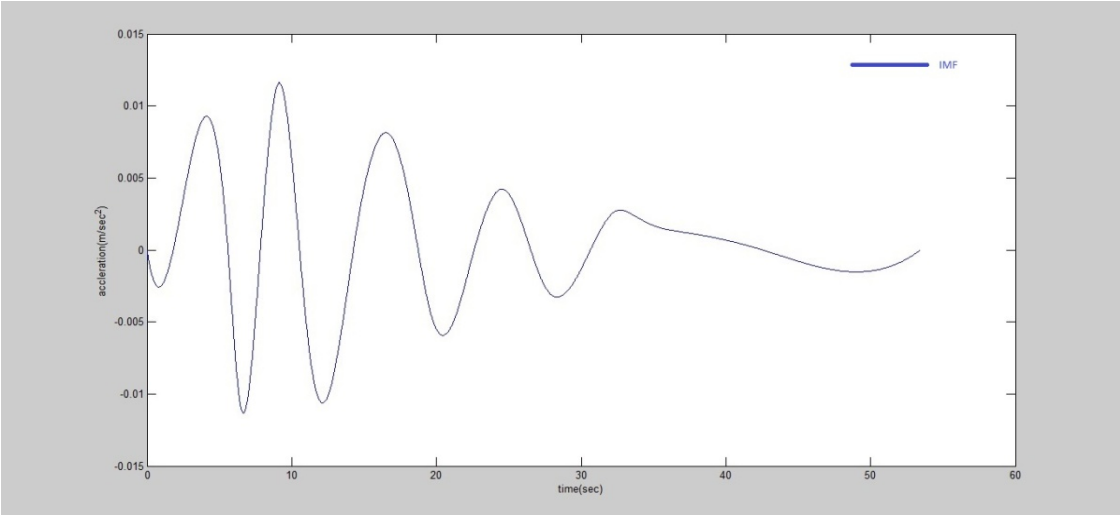

Figure 5.18 Plot of Intrinsic Mode Function 9.

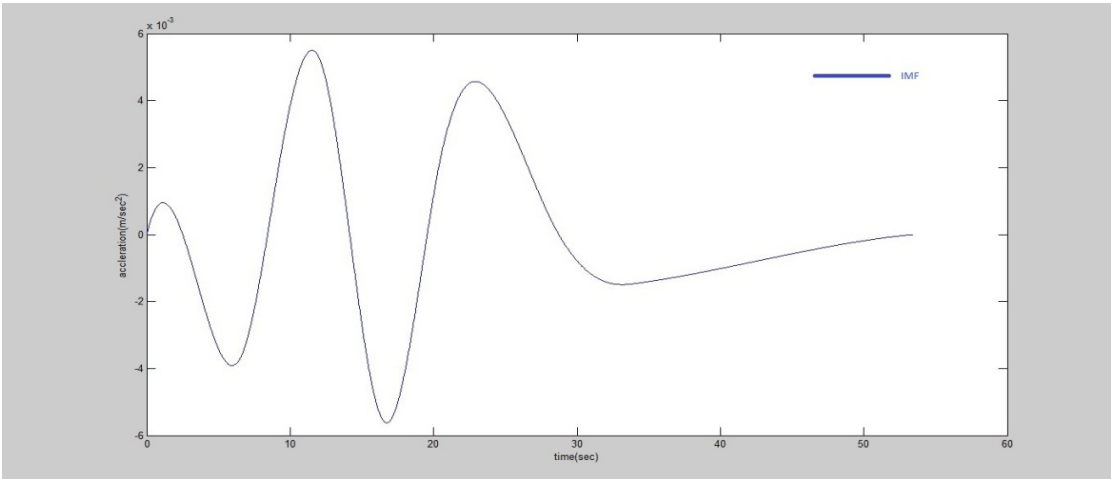

Figure 5.19 Plot of Intrinsic Mode Function 10.

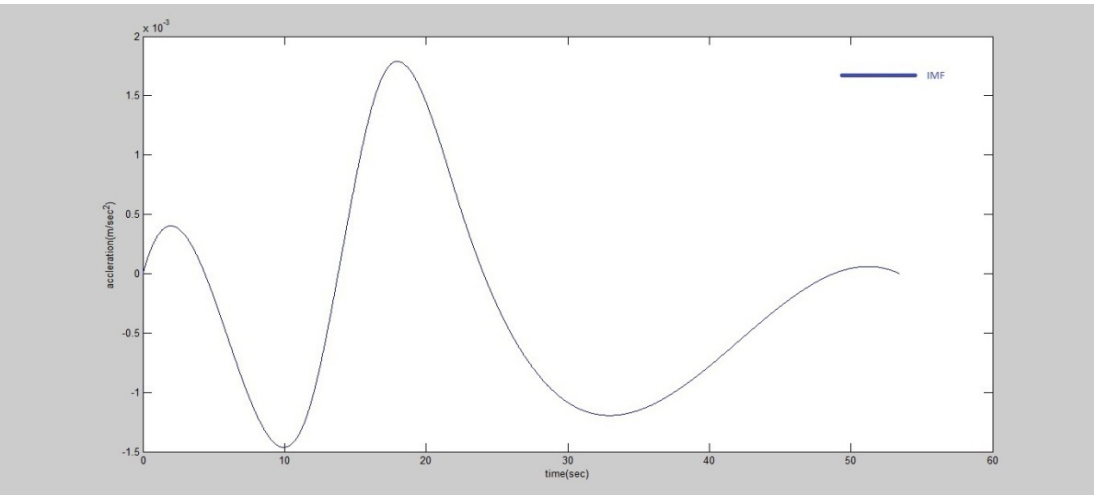

Figure 5.20 Plot of Intrinsic Mode Function 11.

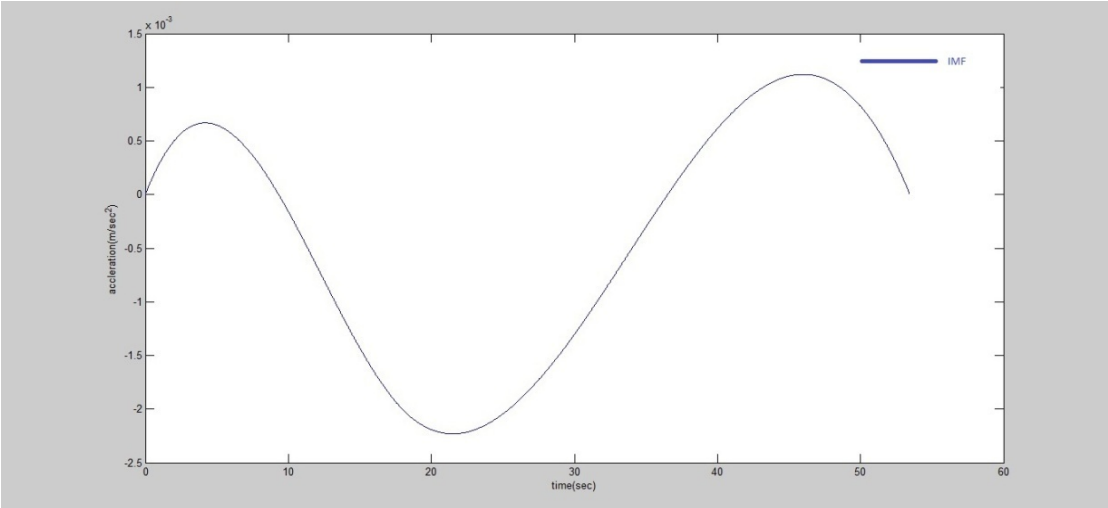

Figure 5.21 Plot of Intrinsic Mode Function 12.

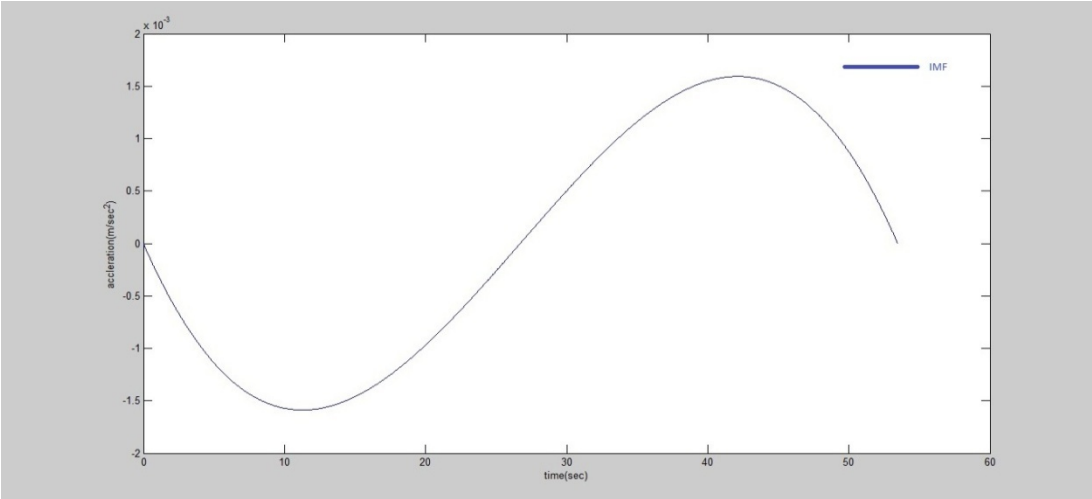

Figure 5.22 Plot of Intrinsic Mode Function 13.

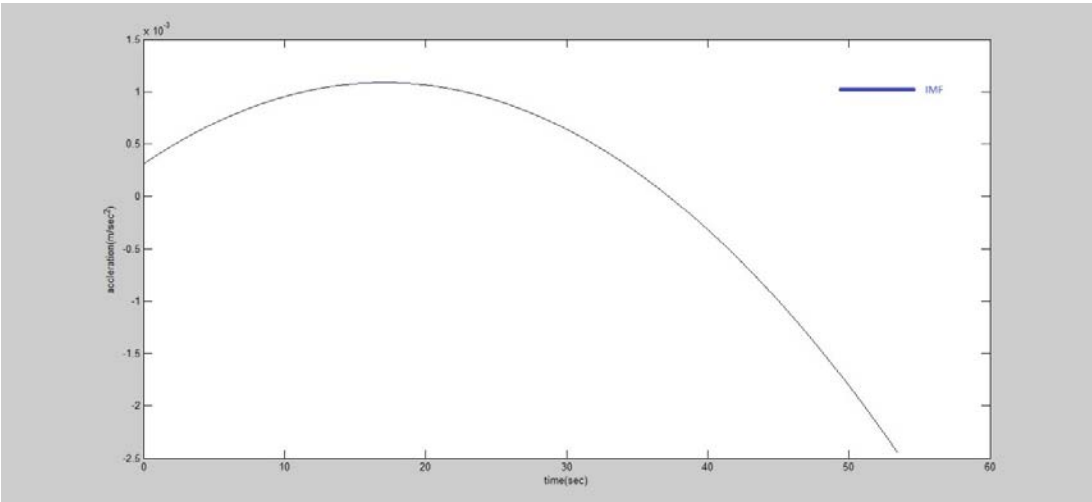

Figure 5.23 Plot of Intrinsic Mode Function 14.

- **Step-5** Hilbert Transform of IMF

  Data 1- plot of IMF and Data 2- plot of Hilbert Transform in figure 5.17 to figure 5.18

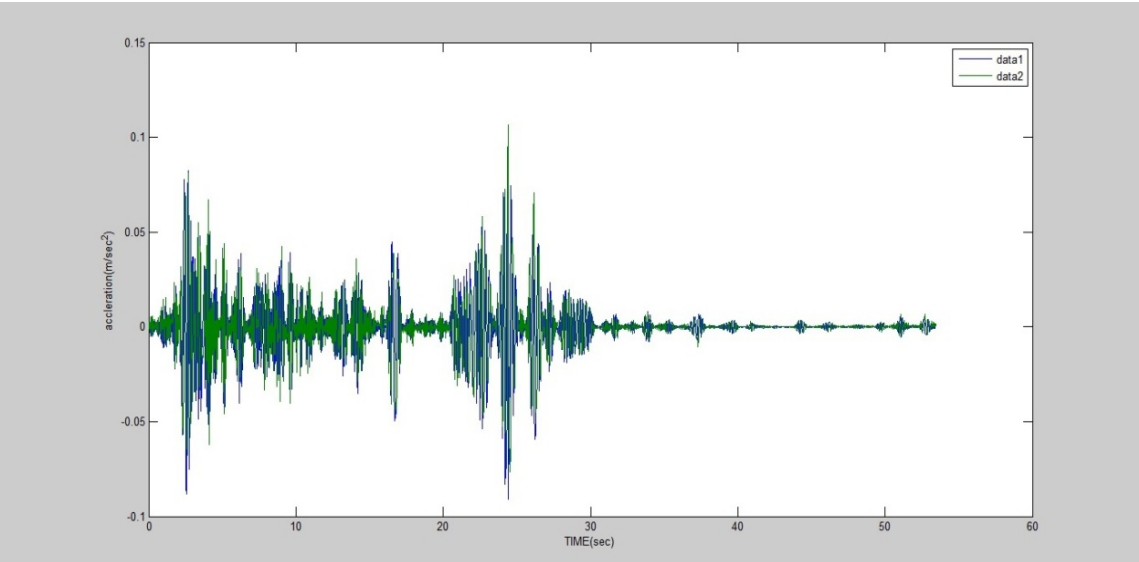

Figure 5.24 Plot of Hilbert Transform of Intrinsic Mode Function 1.

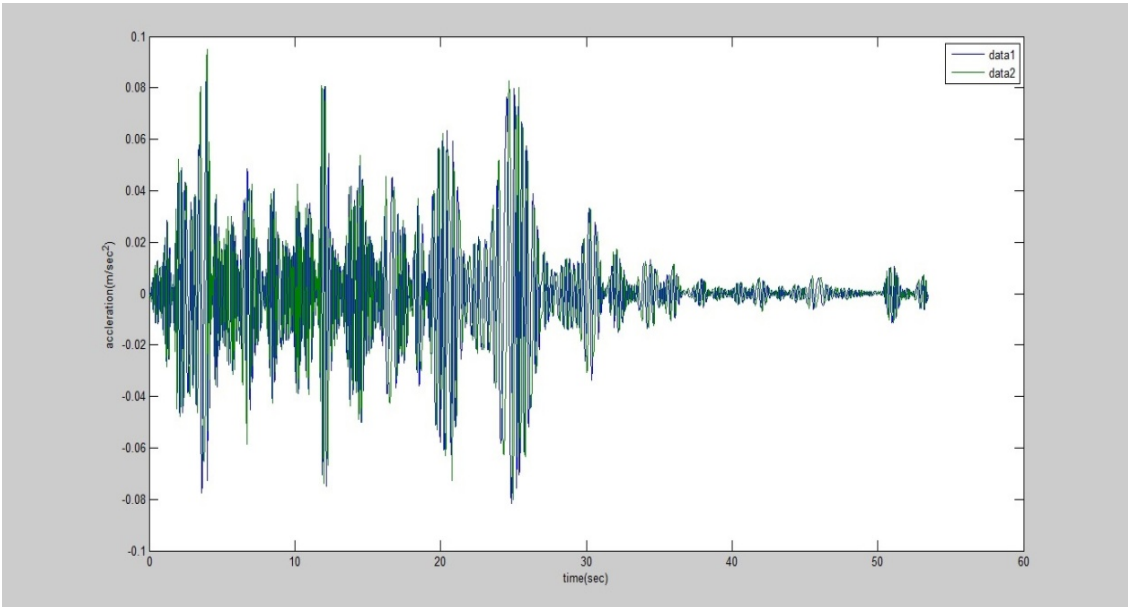

Figure 5.25 Plot of Hilbert Transform of Intrinsic Mode Function 2.

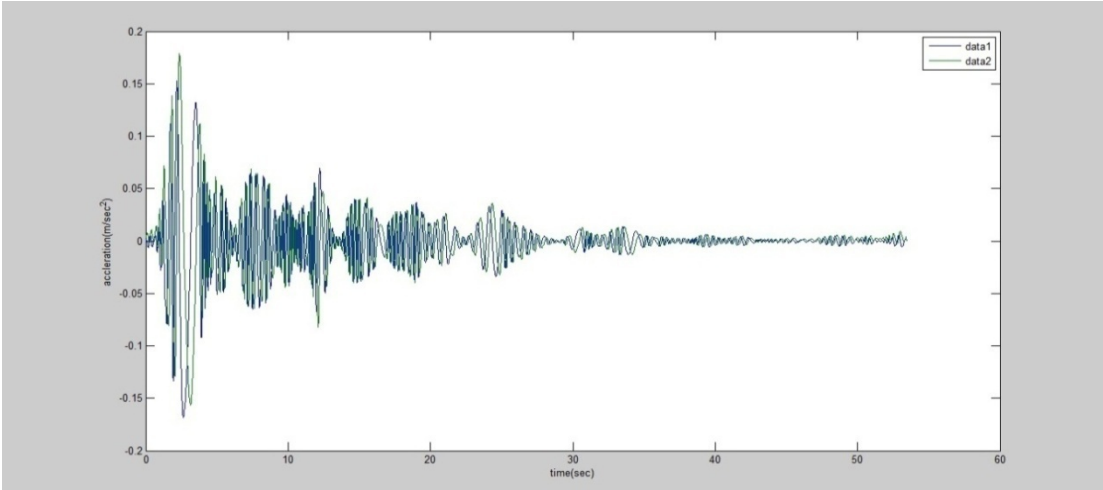

Figure 5.26 Plot of Hilbert Transform of Intrinsic Mode Function 3.

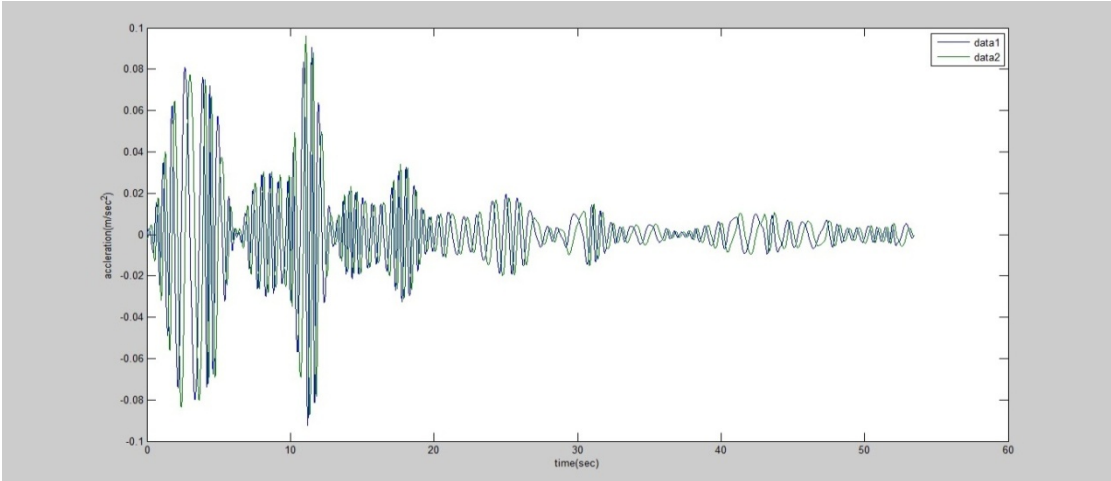

Figure 5.27 Plot of Hilbert Transform of Intrinsic Mode Function 4.

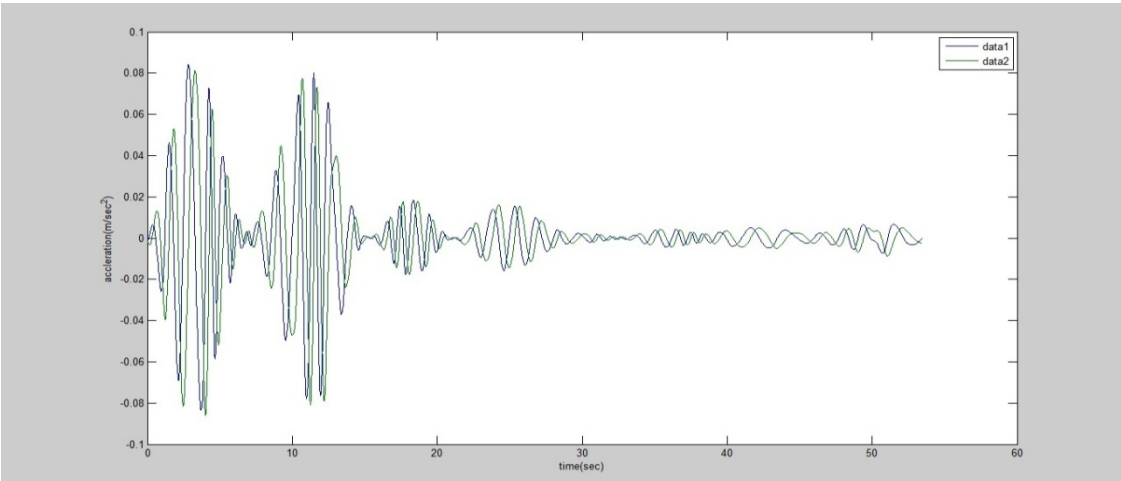

Figure 5.28 Plot of Hilbert Transform of Intrinsic Mode Function 5.

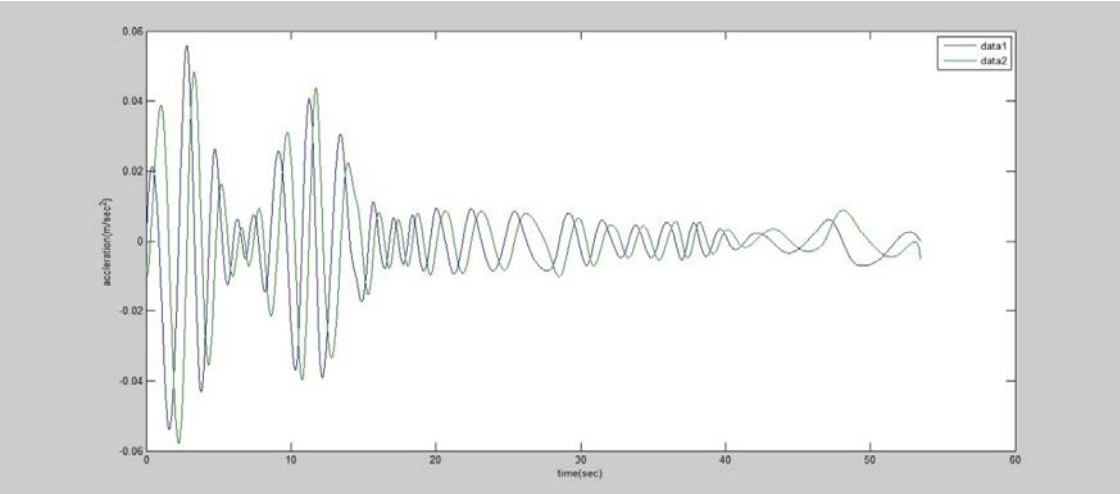

Figure 5.29 Plot of Hilbert Transform of Intrinsic Mode Function 6.

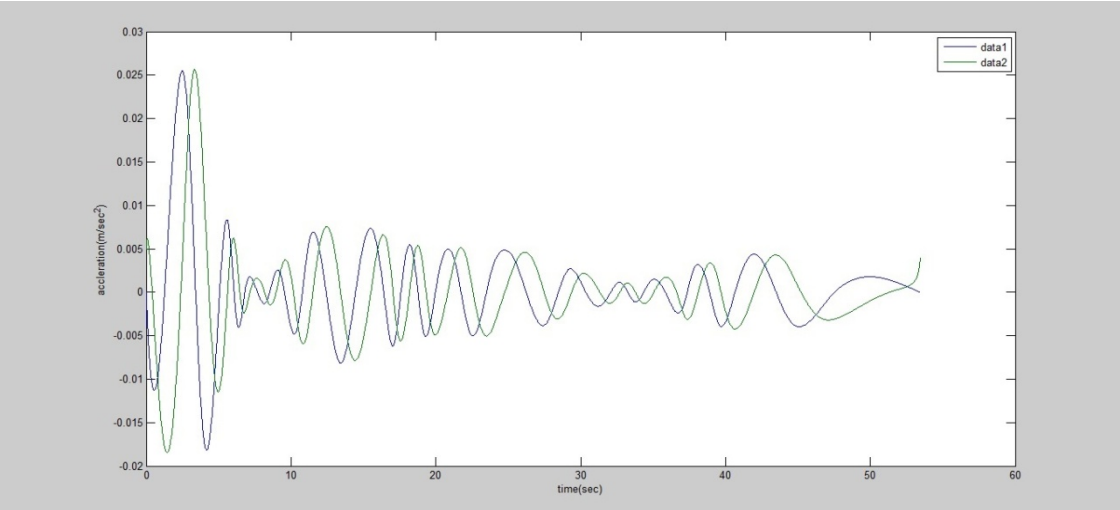

Figure 5.30 Plot of Hilbert Transform of Intrinsic Mode Function 7.

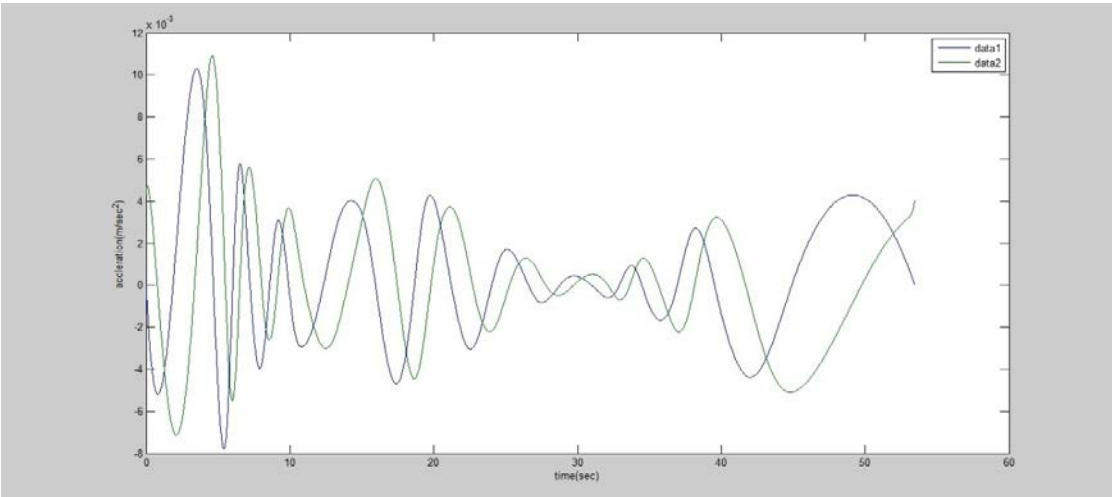

Figure 5.31 Plot of Hilbert Transform of Intrinsic Mode Function 8.

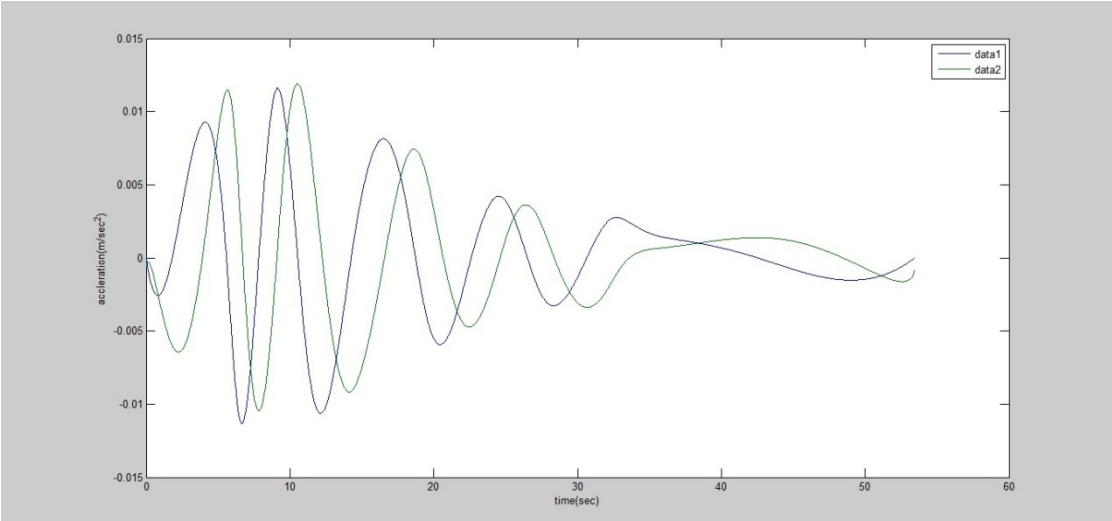

Figure 5.32 Plot of Hilbert Transform of Intrinsic Mode Function 9.

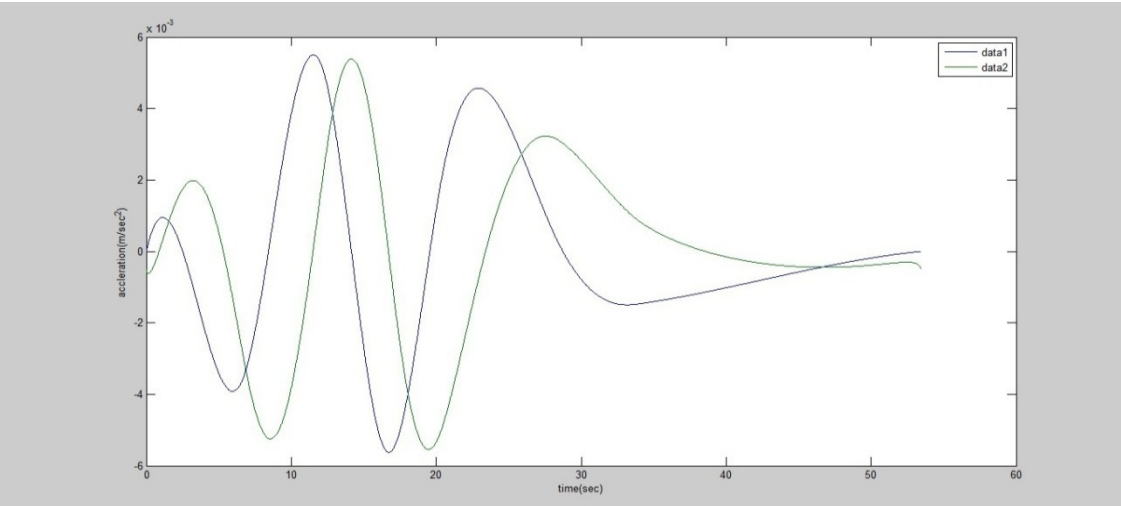

Figure 5.33 Plot of Hilbert Transform of Intrinsic Mode Function 10.

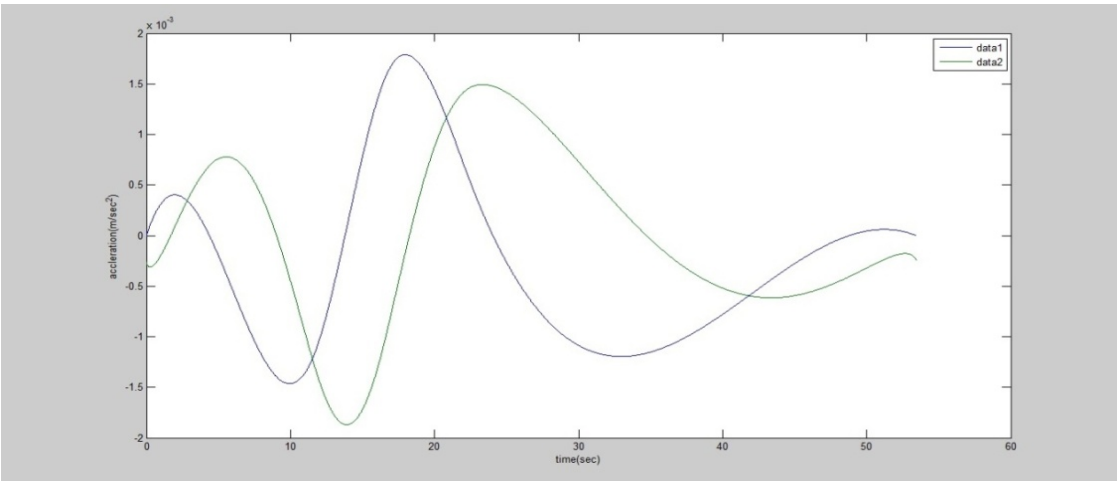

Figure 5.34 Plot of Hilbert Transform of Intrinsic Mode Function 11.

- **Step-6** Three dimension time history plot.

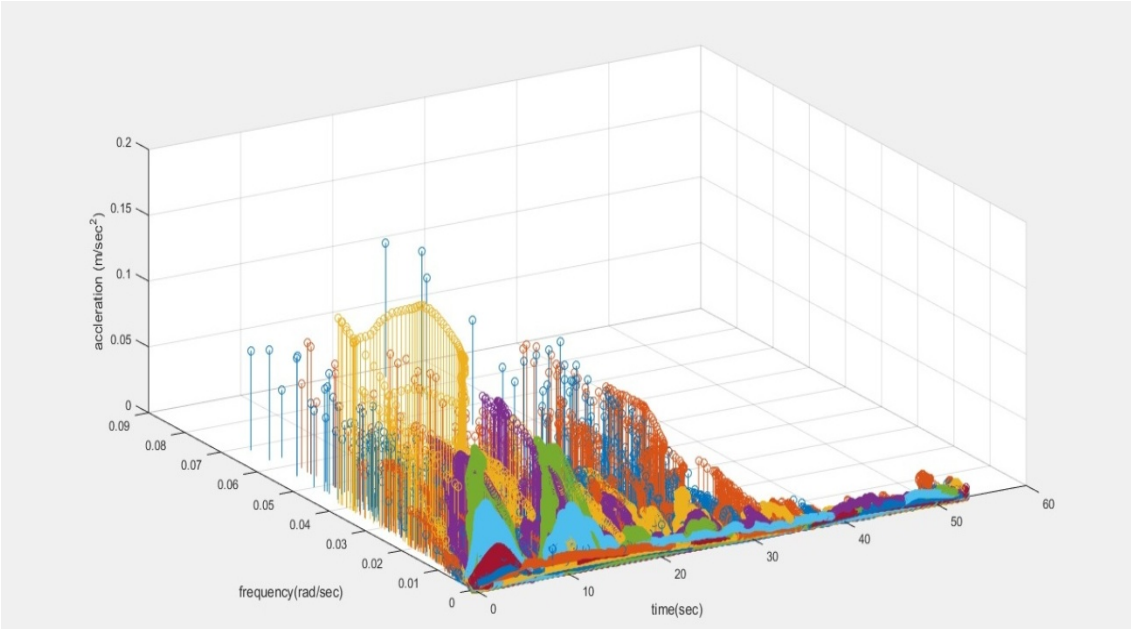

Figure5.35 Three dimensional frequency time plot

- **Step-8** Instantaneous energy spectrum

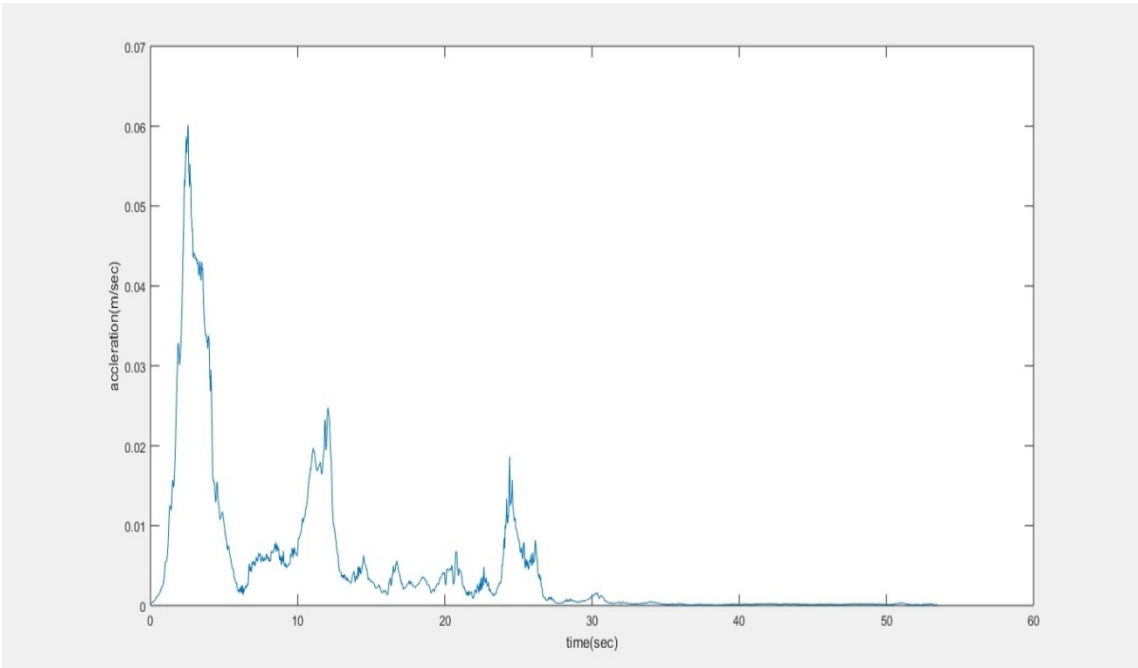

Figure 5.36 Plot of Instantaneous energy spectrum

- **Step-9** Computing Hilbert Energy Spectrum

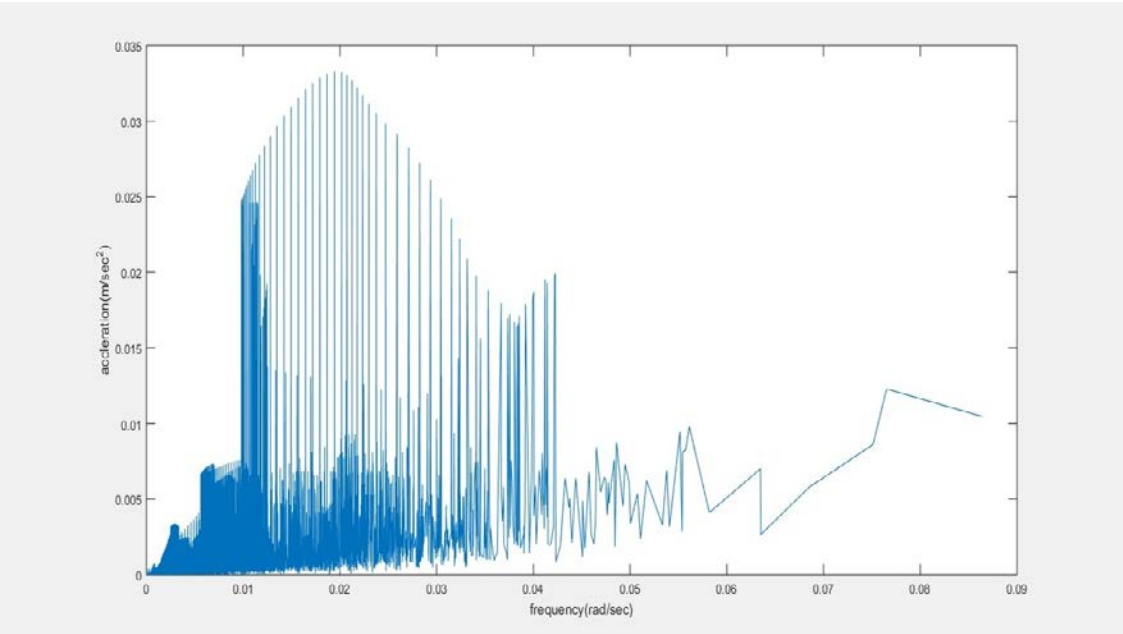

Figure 5.37 plot of Hilbert Energy Spectrum

Chapter 6

Conclusions and Recommendations for Future Study

The HHT method is successfully extended in developing a theoretical basis for frequency-domain analysis of univariate and multivariate non-stationary random processes based on sample records of the process. A sample of a random process is first decomposed into intrinsic mode functions (IMFs) by the method of Empirical Mode Decomposition (EMD). The Hilbert transforms of the IMFs yield the instantaneous amplitude and frequency, from which the Hilbert spectrum can be obtained as a function of time and frequency. The ensemble average of the Hilbert spectra of the sample records is defined as the Hilbert spectrum of the process, which gives a clear description of the time-varying intensity and frequency content of the process. When only one record is available, such as the case of earthquake ground motions, the Hilbert spectrum of the sample can be used as the Hilbert spectrum of the process.

HHT is indeed a powerful method for analyzing data from nonlinear and non-stationary processes: it is based on an adaptive basis; the frequency is derived by differentiation rather than convolution; therefore, it is not limited by the uncertainty principle; it is applicable to nonlinear and non-stationary data and presents the results in time-frequency-energy space for feature extraction.

Although far from being a mature tool, the Hilbert Huang Transform is promising for time-frequency analysis of nonstationary signals. This study extended it from deterministic signal processing to random process modelling and developed three methods for simulation of nonstationary processes based on sample observations. The methods are further applied to generation of Uniform Hazard Earthquake Response Spectrum and Ground Motions.

References

Journals

1. Huang, N. E. et al. (1998). The empirical mode decomposition and the Hilbert spectrum for nonlinear and non-stationary time series analysis. Proc. R. Soc. Lond. A, 454(1971): 903–995.
2. Huang, N. E. et al. (2003). A confidence limit for the empirical mode decomposition and Hilbert spectral analysis. Proc. R. Soc. Lond. A, 459: 3217–2345.
3. Boualem Boashash (1992), Estimating and Interpreting the instantaneous frequency of a signal – part 1: fundamentals, Proceedings of the IEEE, Vol-1 80, No-4: 520-538.
4. On Intrinsic Mode Function, Gang Wang, Xian-Yao Chen and Fang-Li, Vol-2, No. 3 (2010) 277-293.

Web-Sites

5. https://www.clear.rice.edu/
6. http://www.vibrationdata.com/elcentro.htm
7. http://www.vibrationdata.com/elcentro_EW.dat
8. http://www.nicee.org/wcee/
9. http://www.iitk.ac.in/nicee/wcee/article/WCEE2012_2699.pdf

Books

10. *Dynamics of Structures: Theory and Applications to Earthquake Engineering*, by A.K. Chopra 2000.
11. *Digital Signal Processing* by Alan V. Oppenheim and Ronald W. Schafer**.**
12. *Mechanical System and Signal Processing* by Michael Feldman.

Software Used

1. MATLAB R2015a
2. Ms-Excel

APPENDIX I

A. Matlab Function

A.1 Empirical Mode Decomposition Programming

For Empirical mode decomposition, matlab function emd.m is used to breakdown the analytical earthquake data into IMF.

Matlab programming for emd.m function is given below:

```
% EMD:  Emprical mode decomposition
% imf = emd(x)
% x   - input signal (must be a column vector)
% This version will calculate all the imf's (longer)
% imf - Matrix of intrinsic mode functions (each as a row)
%       with residual in last row.
% See:  Huang et al, Royal Society Proceedings on Math, Physical,
%       and Engineering Sciences, vol. 454, no. 1971, pp. 903-995,
%       8 March 1998
Function imf = emd(x);
    c = x(:)'; % copy of the input signal (as a row vector)
    N = length(x);
    %-----------------------------------------------------------------------
    % loop to decompose the input signal into successive IMF
    imf = []; % Matrix which will contain the successive IMF, and the residue
    while (1) % the stop criterion is tested at the end of the loop
    %-----------------------------------------------------------------------
    % inner loop to find each imf
      h = c; % at the beginning of the sifting process, h is the signal
```

```
  SD = 1; % Standard deviation which will be used to stop the sifting process
while SD > 0.3
% while the standard deviation is higher than 0.3 (typical value)
% find local max/min points
     d = diff(h); % approximate derivative
maxmin = []; % to store the optima (min and max without distinction so far)
for i=1:N-2
if d(i)==0                    % we are on a zero
maxmin = [maxmin, i];
elseif sign(d(i))~=sign(d(i+1))   % we are straddling a zero so
maxmin = [maxmin, i+1];       % define zero as at i+1 (not i)
end
end

if size(maxmin,2) < 2 % then it is the residue
break
end
% dividemaxmin into maxes and mins
If maxmin(1)>maxmin(2)            % first one is a max not a min
maxes = maxmin(1:2:length(maxmin));
mins  =maxmin(2:2:length(maxmin));
else% is the other way around
maxes = maxmin(2:2:length(maxmin));
mins  =maxmin(1:2:length(maxmin));
end
% make endpoints both maxes and mins
maxes = [1 maxes N];
mins  = [1 mins  N];
%-----------------------------------------------------------------------
```

```
% spline interpolate to get max and min envelopes; form imf
maxenv = spline(maxes,h(maxes),1:N);
minenv = spline(mins, h(mins),1:N);
    m = (maxenv + minenv)/2; % mean of max and min enveloppes
prevh = h; % copy of the previous value of h before modifying it
    h = h - m; % substract mean to h
% calculate standard deviation
eps = 0.0000001; % to avoid zero values
    SD = sum ( ((prevh - h).^2) ./ (prevh.^2 + eps) );
end
imf = [imf; h]; % store the extracted IMF in the matrix imf
% if size(maxmin,2)<2, then h is the residue
% stop criterion of the algo.
if size(maxmin,2) < 2
break
end
  c = c - h; % substract the extracted IMF from the signal
end
return
```

A.2 Hibert Transform function

Discrete-time analytic signal using Hilbert transform

Syntax: $x = \text{hilbert}(x_r)$

$x = \text{hilbert}(x_{r,n})$

A.2.1 Description

$x = \text{hilbert}(x_r)$ returns a complex helical sequence, sometimes called theanalytic signal, from a real data sequence. The analytic signal $x = x_r + i*x_i$ has a real part, x_r,

which is the original data, and an imaginary part, x_i, which contains the Hilbert transform. The imaginary part is a version of the original real sequence with a 90° phase shift.. The Hilbert transformed series has the same amplitude and frequency content as the original sequence and includes phase information that depends on the phase of the original.

If x_r is a matrix, x = hilbert(x_r) operates columnwise on the matrix, finding the analytic signal corresponding to each column.

x = hilbert($x_{r,n}$) uses an n point FFT to compute the Hilbert transform. The input data x_r is zero-padded or truncated to length n, as appropriate.

The Hilbert transform is useful in calculating instantaneous attributes of a time series, especially the amplitude and frequency. The instantaneous amplitude is the amplitude of the complex Hilbert transform; the instantaneous frequency is the time rate of change of the instantaneous phase angle. For a pure sinusoid, the instantaneous amplitude and frequency are constant. The instantaneous phase, however, is a saw-tooth, reflecting how the local phase angle varies linearly over a single cycle. For mixtures of sinusoids, the attributes are short term, or local, averages spanning no more than two or three points.

A.2.2 Matlab Coding of Hilbert Transformation

```
function x = hilbert(xr,n)
%HILBERT  Discrete-time analytic signal via Hilbert transform.
%   X = HILBERT(Xr) computes the so-called discrete-time analytic signal
%   X = Xr + i*Xi such that Xi is the Hilbert transform of real vector %Xr.
%  If the input Xr is complex, then only the real part is used   %Xr=real(Xr).
%   IfXr is a matrix, then HILBERT operates along the columns of Xr.
%   HILBERT(Xr,N) computes the N-point Hilbert transform.  Xr is padded %with
%   zeros if it has less than N points, and truncated if it has more.
%For a discrete-time analytic signal X, the last half of fft(X) is zero,
%   and the first (DC) and center (Nyquist) elements of fft(X) are %purely real.

ifnargin<2, n=[]; end
if ~isreal(xr)
```

```
warning(message('signal:hilbert:Ignore'))
xr = real(xr);
end
% Work along the first nonsingleton dimension
[xr,nshifts] = shiftdim(xr);
ifisempty(n)
  n = size(xr,1);
end
x = fft(xr,n,1); % n-point FFT over columns.
h  = zeros(n,~isempty(x)); % nx1 for nonempty. 0x0 for empty.
if n > 0 && 2*fix(n/2) == n
% even and nonempty
h([1 n/2+1]) = 1;
h(2:n/2) = 2;
elseif n>0
% odd and nonempty
h(1) = 1;
h(2:(n+1)/2) = 2;
end
x = ifft(x.*h(:,ones(1,size(x,2))));
% Convert back to the original shape.
x = shiftdim(x,-nshifts);
```

Appendix II

B. Result

B.1 Input data El-Centro (Imperial Valley)

TIME	ACC	SLOPE	MAXIMA	TIME MAX	MINIMA	TIME MIN
0	0.000306		0	0	0	0
0.02	0.001937	0.081576	0	0	0	0
0.04	0.006934	0.249827	0.006934	0.04	0	0
0.06	0.002957	-0.19884	0	0	0	0
0.08	0.002957	0	0	0	0	0
0.1	0.005506	0.127462	0	0	0	0
0.12	0.008464	0.147857	0.008464	0.12	0	0
0.14	0.005404	-0.15295	0	0	0	0
0.16	0.001428	-0.19884	0	0	0.001428	0.16
0.18	0.005404	0.198842	0	0	0	0
0.2	0.013664	0.412978	0.013664	0.2	0	0
0.22	0.012644	-0.05099	0	0	0	0
0.24	0.00673	-0.29571	0	0	0	0
0.26	0.00622	-0.02549	0	0	0.00622	0.26
0.28	0.013562	0.367092	0.013562	0.28	0	0
0.3	0.004997	-0.42827	0	0	0.004997	0.3
0.32	0.009789	0.23963	0	0	0	0
0.34	0.01917	0.469062	0	0	0	0
0.36	0.024779	0.280417	0.024779	0.36	0	0
0.38	0.013562	-0.56083	0	0	0	0
0.4	0.004691	-0.44357	0	0	0	0
0.42	-0.00826	-0.64751	0	0	0	0
0.44	-0.01591	-0.38239	0	0	-0.01591	0.44
0.46	-0.00867	0.361994	0	0	0	0
0.48	-0.00316	0.275319	0	0	0	0
0.5	0.004079	0.361993	0	0	0	0
0.52	0.008667	0.229432	0	0	0	0
0.54	0.01346	0.239629	0	0	0	0
0.56	0.018355	0.244728	0.018355	0.56	0	0
0.58	0.016519	-0.09177	0	0	0	0
0.6	0.002345	-0.70869	0	0	0.002345	0.6
0.62	0.002549	0.010197	0	0	0	0
0.64	0.008158	0.280417	0.008158	0.64	0	0
0.66	0.007852	-0.0153	0	0	0.007852	0.66
0.68	0.011217	0.168251	0	0	0	0
0.7	0.013358	0.107069	0.013358	0.7	0	0
0.72	0.00826	-0.25492	0	0	0	0
0.74	0.001326	-0.3467	0	0	0	0
0.76	-0.0154	-0.83615	0	0	0	0
0.78	-0.03365	-0.91263	0	0	0	0
0.8	-0.05425	-1.0299	0	0	0	0
0.82	-0.06587	-0.58123	0	0	-0.06587	0.82
0.84	-0.05353	0.616918	0	0	0	0
0.86	-0.04232	0.560835	0	0	0	0
0.88	-0.04089	0.071379	-0.04089	0.88	0	0
0.9	-0.05251	-0.58123	0	0	0	0
0.92	-0.05802	-0.27532	0	0	0	0
0.94	-0.05833	-0.0153	0	0	-0.05833	0.94
0.96	-0.05384	0.224334	0	0	0	0
0.98	-0.05068	0.158053	-0.05068	0.98	0	0
1	-0.05078	-0.0051	0	0	0	0
1.02	-0.05608	-0.26512	0	0	-0.05608	1.02
1.04	-0.05017	0.295713	0	0	0	0
1.06	-0.04395	0.311009	0	0	0	0
1.08	-0.03691	0.351796	0	0	0	0
1.1	-0.02855	0.418077	0	0	0	0
1.12	-0.0208	0.387486	0	0	0	0
1.14	-0.01499	0.290615	-0.01499	1.14	0	0
1.16	-0.02172	-0.3365	0	0	-0.02172	1.16
1.18	-0.00479	0.846351	0	0	0	0
1.2	0.021924	1.335807	0	0	0	0
1.22	0.048844	1.346004	0	0	0	0
1.24	0.059143	0.514948	0.059143	1.24	0	0
1.26	0.01917	-1.99861	0	0	0	0
1.28	-0.01244	-1.58053	0	0	0	0
1.3	-0.05486	-2.12098	0	0	0	0
1.32	-0.09871	-2.19236	0	0	0	0
1.34	-0.11217	-0.673	0	0	-0.11217	1.34
1.36	-0.10809	0.20394	-0.10809	1.36	0	0
1.38	-0.10911	-0.05099	0	0	-0.10911	1.38
1.4	-0.10187	0.361993	0	0	0	0
1.42	-0.09544	0.321206	-0.09544	1.42	0	0
1.44	-0.11523	-0.98911	0	0	0	0
1.46	-0.1499	-1.73349	0	0	-0.1499	1.46
1.48	-0.12338	1.32561	0	0	0	0
1.5	-0.11217	0.560835	0	0	0	0
1.52	-0.08749	1.233837	0	0	0	0

TIME	ACC	SLOPE	MAXIMA	TIME MAX	MINIMA	TIME MIN
1.54	-0.06485	1.131867	0	0	0	0
1.56	-0.03875	1.305216	0	0	0	0
1.58	-0.01581	1.147163	0	0	0	0
1.6	0.010911	1.335807	0	0	0	0
1.62	0.034466	1.177753	0	0	0	0
1.64	0.06108	1.330709	0	0	0	0
1.66	0.085145	1.203246	0	0	0	0
1.68	0.111147	1.300118	0	0	0	0
1.7	0.13562	1.22364	0	0	0	0
1.72	0.151935	0.81576	0.151935	1.72	0	0
1.74	0.121344	-1.52955	0	0	0	0
1.76	0.113187	-0.40788	0	0	0	0
1.78	0.10197	-0.56083	0	0	0.10197	1.78
1.8	0.110128	0.40788	0.110128	1.8	0	0
1.82	0.084023	-1.30522	0	0	0	0
1.84	0.037627	-2.31982	0	0	0	0
1.86	-0.02294	-3.02851	0	0	0	0
1.88	-0.15092	-6.39862	0	0	0	0
1.9	-0.18253	-1.58054	0	0	-0.18253	1.9
1.92	-0.16213	1.0197	-0.16213	1.92	0	0
1.94	-0.17233	-0.50985	0	0	-0.17233	1.94
1.96	-0.15499	0.866745	0	0	0	0
1.98	-0.14786	0.356895	0	0	0	0
2	-0.13766	0.50985	0	0	0	0
2.02	-0.1295	0.40788	0	0	0	0
2.04	-0.12032	0.458865	0	0	0	0
2.06	-0.11115	0.458865	0	0	0	0
2.08	-0.10166	0.474161	0	0	0	0
2.1	-0.07791	1.18795	0	0	0	0
2.12	-0.06067	0.861647	0	0	0	0
2.14	-0.00969	2.54925	0	0	0	0
2.16	0.055268	3.247744	0	0	0	0
2.18	0.108088	2.641023	0.108088	2.18	0	0
2.2	0.078517	-1.47857	0	0	0	0
2.22	0.059652	-0.94322	0	0	0	0
2.24	0.025187	-1.72329	0	0	0	0
2.26	-0.01305	-1.91194	0	0	0	0
2.28	-0.06883	-2.78888	0	0	0	0
2.3	-0.08423	-0.76987	0	0	-0.08423	2.3
2.32	-0.05313	1.555042	0	0	0	0
2.34	-0.03059	1.126768	0	0	0	0
2.36	0.007546	1.906839	0	0	0	0
2.38	0.045581	1.90174	0	0	0	0
2.4	0.086878	2.064892	0	0	0	0
2.42	0.114206	1.366398	0.114206	2.42	0	0
2.44	0.094016	-1.0095	0	0	0	0
2.46	0.079027	-0.74948	0	0	0	0
2.48	0.055472	-1.17775	0	0	0	0
2.5	0.015907	-1.97822	0	0	0	0
2.52	-0.01866	-1.72839	0	0	0	0
2.54	-0.06241	-2.18726	0	0	0	0
2.56	-0.07138	-0.44867	0	0	-0.07138	2.56
2.58	-0.03243	1.947627	0	0	0	0
2.6	-0.00387	1.42758	0	0	0	0
2.62	0.028959	1.641717	0	0	0	0
2.64	0.06057	1.580535	0	0	0	0
2.66	0.09371	1.657012	0	0	0	0
2.68	0.113187	0.973814	0.113187	2.68	0	0
2.7	0.066382	-2.34021	0	0	0	0
2.72	0.027532	-1.94253	0	0	0	0
2.74	-0.0154	-2.14647	0	0	-0.0154	2.74
2.76	0.014684	1.504057	0	0	0	0
2.78	0.03365	0.948321	0	0	0	0
2.8	0.078721	2.253537	0	0	0	0
2.82	0.120325	2.080188	0	0	0	0
2.84	0.162132	2.090385	0	0	0	0
2.86	0.181507	0.968715	0.181507	2.86	0	0
2.88	0.151935	-1.47857	0	0	0	0
2.9	0.120325	-1.58053	0	0	0	0
2.92	0.080352	-1.99861	0	0	0	0
2.94	0.033242	-2.35551	0	0	0.033242	2.94
2.96	0.035791	0.127463	0	0	0	0
2.98	0.053942	0.907533	0	0	0	0
3	0.070359	0.820858	0	0	0	0
3.02	0.072501	0.107068	0.072501	3.02	0	0
3.04	0.067606	-0.24473	0	0	0	0
3.06	0.063323	-0.21414	0	0	0	0
3.08	0.055268	-0.40278	0	0	0	0

3.1	0.053126	-0.10707	0	0	0.053126	3.1
3.12	0.064649	0.576131	0	0	0	0
3.14	0.071175	0.326304	0	0	0	0
3.16	0.082596	0.571032	0.082596	3.16	0	0
3.18	0.043949	-1.93233	0	0	0	0
3.2	-0.00561	-2.47787	0	0	0	0
3.22	-0.0468	-2.05979	0	0	-0.0468	3.22
3.24	-0.02101	1.289921	0	0	0	0
3.26	-0.00071	1.014602	0	0	0	0
3.28	0.026512	1.361299	0	0	0	0
3.3	0.049557	1.152261	0	0	0	0
3.32	0.077905	1.417383	0	0	0	0
3.34	0.089632	0.586327	0.089632	3.34	0	0
3.36	0.062304	-1.3664	0	0	0	0
3.38	0.035791	-1.32561	0	0	0	0
3.4	0.02019	-0.78007	0	0	0.02019	3.4
3.42	0.043745	1.177754	0	0	0	0
3.44	0.059041	0.764775	0	0	0	0
3.46	0.088102	1.453072	0	0	0	0
3.48	0.096464	0.418077	0.096464	3.48	0	0
3.5	0.042216	-2.7124	0	0	0	0
3.52	-0.00602	-2.41159	0	0	0	0
3.54	-0.05211	-2.30452	0	0	0	0
3.56	-0.09442	-2.11588	0	0	0	0
3.58	-0.09718	-0.13766	0	0	-0.09718	3.58
3.6	-0.09524	0.096872	0	0	0	0
3.62	-0.09055	0.234531	0	0	0	0
3.64	-0.0878	0.13766	0	0	0	0
3.66	-0.07546	0.616918	0	0	0	0
3.68	-0.06363	0.591426	0	0	0	0
3.7	-0.05109	0.627116	0	0	0	0
3.72	-0.03834	0.637312	0	0	0	0
3.74	-0.02447	0.693396	0	0	0	0
3.76	-0.01275	0.586327	0	0	0	0
3.78	0.00153	0.71379	0.00153	3.78	0	0
3.8	-0.01744	-0.94832	0	0	0	0
3.82	-0.04293	-1.27462	0	0	0	0
3.84	-0.0725	-1.47856	0	0	-0.0725	3.84
3.86	-0.06557	0.346698	0	0	0	0
3.88	-0.02825	1.866051	0	0	0	0
3.9	-0.00663	1.080882	0	0	0	0
3.92	0.017233	1.193049	0.017233	3.92	0	0
3.94	-0.02345	-2.0343	0	0	0	0
3.96	-0.06016	-1.83546	0	0	-0.06016	3.96
3.98	-0.05812	0.10197	0	0	0	0
4	-0.00663	2.574742	0	0	0	0
4.02	0.01499	1.080882	0	0	0	0
4.04	0.020904	0.295713	0	0	0	0
4.06	0.021312	0.020394	0	0	0	0
4.08	0.044765	1.172655	0	0	0	0
4.1	0.051903	0.356895	0.051903	4.1	0	0
4.12	0.04915	-0.13766	0	0	0	0
4.14	-0.15907	-10.4111	0	0	-0.15907	4.14
4.16	-0.10044	2.931637	-0.10044	4.16	0	0
4.18	-0.10911	-0.43337	0	0	-0.10911	4.18
4.2	-0.06863	2.024104	0	0	0	0
4.22	-0.0261	2.126075	0	0	0	0
4.24	0.026614	2.635924	0	0	0	0
4.26	0.062712	1.804869	0	0	0	0
4.28	0.104009	2.064893	0	0	0	0
4.3	0.111147	0.356895	0.111147	4.3	0	0
4.32	0.097279	-0.6934	0	0	0	0
4.34	0.089224	-0.40278	0	0	0	0
4.36	0.067402	-1.09108	0	0	0	0
4.38	0.05333	-0.70359	0	0	0.05333	4.38
4.4	0.068932	0.78007	0	0	0	0
4.42	0.110128	2.059794	0.110128	4.42	0	0
4.44	0.078517	-1.58054	0	0	0.078517	4.44
4.46	0.088612	0.504752	0.088612	4.46	0	0
4.48	0.060366	-1.41228	0	0	0.060366	4.48
4.5	0.065771	0.27022	0.065771	4.5	0	0
4.52	-0.11013	-8.79491	0	0	-0.11013	4.52
4.54	-0.09483	0.764775	-0.09483	4.54	0	0
4.56	-0.10911	-0.71379	0	0	0	0
4.58	-0.1193	-0.50985	0	0	-0.1193	4.58
4.6	-0.10605	0.662805	0	0	0	0
4.62	-0.10299	0.152955	-0.10299	4.62	0	0
4.64	-0.15601	-2.65122	0	0	-0.15601	4.64
4.66	-0.12746	1.427579	0	0	0	0
4.68	-0.11421	0.662805	0	0	0	0
4.7	-0.08912	1.254231	0	0	0	0
4.72	-0.06251	1.330709	0	0	0	0
4.74	-0.02631	1.809967	0	0	0	0
4.76	0.002447	1.437777	0	0	0	0
4.78	0.044663	2.110779	0	0	0	0
4.8	0.070767	1.305216	0	0	0	0
4.82	0.072195	0.071379	0.072195	4.82	0	0
4.84	0.070359	-0.09177	0	0	0	0
4.86	0.068626	-0.08667	0	0	0	0
4.88	0.063527	-0.25493	0	0	0.063527	4.88
4.9	0.080964	0.871844	0.080964	4.9	0	0
4.92	0.064241	-0.83615	0	0	0	0
4.94	0.053534	-0.53534	0	0	0	0

4.96	0.047212	-0.31611	0	0	0.047212	4.96
4.98	0.05435	0.356895	0	0	0	0
5	0.063527	0.458865	0.063527	5	0	0
5.02	0.052718	-0.54044	0	0	0	0
5.04	0.021006	-1.58563	0	0	0	0
5.06	-0.00683	-1.39189	0	0	0	0
5.08	-0.01346	-0.3314	0	0	-0.01346	5.08
5.1	0.004997	0.922828	0	0	0	0
5.12	0.054656	2.482969	0	0	0	0
5.14	0.10197	2.365704	0.10197	5.14	0	0
5.16	0.032936	-3.45168	0	0	0	0
5.18	-0.01846	-2.56964	0	0	-0.01846	5.18
5.2	0.01193	1.519353	0	0	0	0
5.22	0.047008	1.753884	0	0	0	0
5.24	0.073011	1.300117	0	0	0	0
5.26	0.108088	1.753884	0	0	0	0
5.28	0.124403	0.81576	0.124403	5.28	0	0
5.3	0.112167	-0.61182	0	0	0	0
5.32	0.05384	-2.91634	0	0	0	0
5.34	0.001733	-2.60533	0	0	0.001733	5.34
5.36	0.004691	0.147856	0.004691	5.36	0	0
5.38	-0.01428	-0.94832	0	0	-0.01428	5.38
5.4	-0.01091	0.168251	-0.01091	5.4	0	0
5.42	-0.03447	-1.17775	0	0	0	0
5.44	-0.07954	-2.25354	0	0	0	0
5.46	-0.10197	-1.12167	0	0	-0.10197	5.46
5.48	-0.10095	0.050985	0	0	0	0
5.5	-0.09493	0.300812	0	0	0	0
5.52	-0.06965	1.264428	0	0	0	0
5.54	-0.04497	1.233837	0	0	0	0
5.56	-0.02152	1.172655	0	0	0	0
5.58	0.001733	1.162458	0	0	0	0
5.6	0.02019	0.922828	0	0	0	0
5.62	0.058939	1.93743	0.058939	5.62	0	0
5.64	0.054146	-0.23963	0	0	0	0
5.66	0.008565	-2.27903	0	0	0	0
5.68	-0.00755	-0.80556	0	0	0	0
5.7	-0.04109	-1.67741	0	0	0	0
5.72	-0.05435	-0.6628	0	0	-0.05435	5.72
5.74	-0.05078	0.178447	0	0	0	0
5.76	-0.03069	1.004404	0	0	0	0
5.78	-0.01081	0.994207	-0.01081	5.78	0	0
5.8	-0.04527	-1.72329	0	0	0	0
5.82	-0.08076	-1.77428	0	0	-0.08076	5.82
5.84	-0.04803	1.636618	0	0	0	0
5.86	-0.04222	0.290614	0	0	0	0
5.88	-0.01407	1.407186	0	0	0	0
5.9	0.009993	1.203246	0	0	0	0
5.92	0.032936	1.147162	0.032936	5.92	0	0
5.94	0.00102	-1.59583	0	0	0	0
5.96	-0.02927	-1.51425	0	0	0	0
5.98	-0.0413	-0.60162	0	0	-0.0413	5.98
6	-0.02396	0.866745	0	0	0	0
6.02	-0.01703	0.346698	0	0	0	0
6.04	0.006832	1.193049	0	0	0	0
6.06	0.024167	0.866745	0	0	0	0
6.08	0.041298	0.856548	0.041298	6.08	0	0
6.1	0.034568	-0.3365	0	0	0	0
6.12	0.013664	-1.04519	0	0	0	0
6.14	-0.00489	-0.92793	0	0	0	0
6.16	-0.02763	-1.13697	0	0	0	0
6.18	-0.04476	-0.85655	0	0	-0.04476	6.18
6.2	-0.01275	1.600929	0	0	0	0
6.22	0.012032	1.238936	0	0	0	0
6.24	0.04813	1.804869	0	0	0	0
6.26	0.064955	0.841253	0.064955	6.26	0	0
6.28	0.021618	-2.16686	0	0	0	0
6.3	-0.00653	-1.40719	0	0	0	0
6.32	-0.04283	-1.81507	0	0	0	0
6.34	-0.0674	-1.22874	0	0	-0.0674	6.34
6.36	-0.0569	0.525145	0	0	0	0
6.38	-0.05098	0.295713	0	0	0	0
6.4	-0.036	0.749479	0	0	0	0
6.42	-0.01764	0.91773	0	0	0	0
6.44	-0.00051	0.856548	0	0	0	0
6.46	0.016417	0.846351	0.016417	6.46	0	0
6.48	0.01346	-0.14786	0	0	0.01346	6.48
6.5	0.014276	0.040788	0.014276	6.5	0	0
6.52	0.01193	-0.11727	0	0	0.01193	6.52
6.54	0.031611	0.98401	0.031611	6.54	0	0
6.56	0.029367	-0.11217	0	0	0	0
6.58	0.015703	-0.6832	0	0	0	0
6.6	0.008667	-0.3518	0	0	0	0
6.62	-0.00775	-0.82086	0	0	0	0
6.64	-0.01846	-0.53534	0	0	0	0
6.66	-0.03732	-0.94322	0	0	-0.03732	6.66
6.68	-0.02967	0.382387	0	0	0	0
6.7	-0.00133	1.417383	0	0	0	0
6.72	0.02794	1.463269	0.02794	6.72	0	0
6.74	0.024983	-0.14786	0	0	0	0
6.76	0.011115	-0.6934	0	0	0	0
6.78	0.009381	-0.08667	0	0	0	0
6.8	-0.0105	-0.99421	0	0	0	0

6.82	-0.02447	-0.69849	0	0	0	0
6.84	-0.0415	-0.85145	0	0	0	0
6.86	-0.05364	-0.60672	0	0	-0.05364	6.86
6.88	-0.05037	0.163152	-0.05037	6.88	0	0
6.9	-0.07332	-1.14716	0	0	-0.07332	6.9
6.92	-0.05333	0.999306	0	0	0	0
6.94	-0.02651	1.340905	0	0	0	0
6.96	0.013358	1.993513	0	0	0	0
6.98	0.070665	2.865357	0	0	0	0
7	0.08902	0.91773	0.08902	7	0	0
7.02	0.062814	-1.31031	0	0	0	0
7.04	0.042725	-1.0044	0	0	0	0
7.06	-0.00928	-2.60024	0	0	0	0
7.08	-0.05598	-2.33511	0	0	0	0
7.1	-0.09473	-1.93743	0	0	-0.09473	7.1
7.12	-0.08698	0.387486	0	0	0	0
7.14	-0.05894	1.402088	0	0	0	0
7.16	-0.04038	0.927927	-0.04038	7.16	0	0
7.18	-0.0671	-1.33581	0	0	0	0
7.2	-0.07321	-0.30591	0	0	-0.07321	7.2
7.22	-0.03477	1.922135	0	0	0	0
7.24	-0.00438	1.519353	0	0	0	0
7.26	0.026716	1.555043	0	0	0	0
7.28	0.057817	1.555042	0	0	0	0
7.3	0.081678	1.193049	0	0	0	0
7.32	0.097993	0.81576	0.097993	7.32	0	0
7.34	0.087286	-0.53534	0	0	0	0
7.36	0.067402	-0.99421	0	0	0	0
7.38	0.050781	-0.83106	0	0	0	0
7.4	0.028959	-1.09108	0	0	0	0
7.42	0.011523	-0.87184	0	0	0	0
7.44	-0.01784	-1.46837	0	0	0	0
7.46	-0.04854	-1.53465	0	0	0	0
7.48	-0.07525	-1.33581	0	0	-0.07525	7.48
7.5	-0.05272	1.126769	0	0	0	0
7.52	-0.03763	0.754578	0	0	0	0
7.54	-0.01152	1.305216	-0.01152	7.54	0	0
7.56	-0.02539	-0.6934	0	0	0	0
7.58	-0.03232	-0.3467	0	0	0	0
7.6	-0.04803	-0.78517	0	0	-0.04803	7.6
7.62	-0.03967	0.418077	0	0	0	0
7.64	-0.02366	0.800465	0	0	0	0
7.66	-0.00275	1.045192	0	0	0	0
7.68	0.023045	1.289921	0	0	0	0
7.7	0.050271	1.361299	0	0	0	0
7.72	0.064445	0.708692	0.064445	7.72	0	0
7.74	0.046906	-0.87694	0	0	0	0
7.76	0.035995	-0.54554	0	0	0	0
7.78	0.020292	-0.78517	0	0	0	0
7.8	0.006424	-0.6934	0	0	0	0
7.82	-0.01275	-0.95852	0	0	0	0
7.84	-0.03049	-0.88714	0	0	0	0
7.86	-0.03956	-0.45377	0	0	-0.03956	7.86
7.88	-0.03263	0.346698	0	0	0	0
7.9	-0.01835	0.71379	-0.01835	7.9	0	0
7.92	-0.02335	-0.24983	0	0	0	0
7.94	-0.03712	-0.6883	0	0	0	0
7.96	-0.04711	-0.49965	0	0	0	0
7.98	-0.05894	-0.59143	0	0	0	0
8	-0.07036	-0.57103	0	0	0	0
8.02	-0.0774	-0.3518	0	0	-0.0774	8.02
8.04	-0.05945	0.897336	0	0	0	0
8.06	-0.04425	0.759676	0	0	0	0
8.08	-0.03742	0.3416	-0.03742	8.08	0	0
8.1	-0.06445	-1.3511	0	0	0	0
8.12	-0.0675	-0.15295	0	0	-0.0675	8.12
8.14	-0.05353	0.698494	0	0	0	0
8.16	-0.036	0.876942	0	0	0	0
8.18	-0.02305	0.647509	0	0	0	0
8.2	0.0052	1.412284	0.0052	8.2	0	0
8.22	-0.01917	-1.21854	0	0	0	0
8.24	-0.04354	-1.21854	0	0	-0.04354	8.24
8.26	-0.01519	1.417383	0	0	0	0
8.28	-0.01254	0.132561	0	0	0	0
8.3	0.008056	1.029897	0	0	0	0
8.32	0.024575	0.825957	0.024575	8.32	0	0
8.34	0.000204	-1.21854	0	0	0	0
8.36	-0.02478	-1.24913	0	0	0	0
8.38	-0.04864	-1.19305	0	0	0	0
8.4	-0.07668	-1.40209	0	0	0	0
8.42	-0.10197	-1.26443	0	0	0	0
8.44	-0.13052	-1.42758	0	0	-0.13052	8.44
8.46	-0.09789	1.63152	0	0	0	0
8.48	-0.02835	3.477177	0	0	0	0
8.5	0.042725	3.553654	0	0	0	0
8.52	0.100848	2.906145	0.100848	8.52	0	0
8.54	0.080556	-1.0146	0	0	0.080556	8.54
8.56	0.116246	1.784475	0	0	0	0
8.58	0.124403	0.40788	0.124403	8.58	0	0
8.6	0.114206	-0.50985	0	0	0	0
8.62	0.041706	-3.62503	0	0	0.041706	8.62
8.64	0.066586	1.244034	0.066586	8.64	0	0
8.66	0.054248	-0.61692	0	0	0.054248	8.66

8.68	0.086369	1.606027	0.086369	8.68	0	0
8.7	0.000102	-4.31333	0	0	0	0
8.72	-0.02386	-1.19815	0	0	-0.02386	8.72
8.74	-0.01366	0.50985	-0.01366	8.74	0	0
8.76	-0.03436	-1.035	0	0	-0.03436	8.76
8.78	-0.03375	0.030591	0	0	0	0
8.8	-0.01978	0.698494	0	0	0	0
8.82	0.016315	1.804869	0	0	0	0
8.84	0.048334	1.600929	0	0	0	0
8.86	0.061386	0.652608	0.061386	8.86	0	0
8.88	0.032121	-1.46327	0	0	0	0
8.9	0.020904	-0.56084	0	0	0	0
8.92	0.007138	-0.6883	0	0	0.007138	8.92
8.94	0.039666	1.626422	0	0	0	0
8.96	0.085247	2.279029	0	0	0	0
8.98	0.101562	0.81576	0	0	0	0
9	0.109108	0.37729	0	0	0	0
9.02	0.112167	0.152955	0.112167	9.02	0	0
9.04	0.08025	-1.59583	0	0	0	0
9.06	0.072705	-0.37729	0	0	0.072705	9.06
9.08	0.07556	0.142758	0	0	0	0
9.1	0.075866	0.015296	0	0	0	0
9.12	0.079231	0.16825	0	0	0	0
9.14	0.085757	0.326304	0	0	0	0
9.16	0.086878	0.056083	0	0	0	0
9.18	0.092589	0.285516	0.092589	9.18	0	0
9.2	0.022535	-3.50267	0	0	0	0
9.22	0.005302	-0.86165	0	0	0.005302	9.22
9.24	0.014174	0.443569	0.014174	9.24	0	0
9.26	0.007444	-0.3365	0	0	0.007444	9.26
9.28	0.018559	0.555737	0	0	0	0
9.3	0.022841	0.214137	0	0	0	0
9.32	0.032121	0.463964	0.032121	9.32	0	0
9.34	0.029061	-0.15296	0	0	0	0
9.36	0.006526	-1.12677	0	0	0	0
9.38	-0.01101	-0.87694	0	0	0	0
9.4	-0.03671	-1.28482	0	0	0	0
9.42	-0.04701	-0.51495	0	0	-0.04701	9.42
9.44	-0.03498	0.601623	0	0	0	0
9.46	-0.03498	0	0	0	0	0
9.48	-0.02835	0.331403	0	0	0	0
9.5	-0.02784	0.025493	-0.02784	9.5	0	0
9.52	-0.06526	-1.87115	0	0	0	0
9.54	-0.09534	-1.50406	0	0	-0.09534	9.54
9.56	-0.07576	0.978912	0	0	0	0
9.58	-0.04946	1.315413	0	0	0	0
9.6	-0.0051	2.217847	0	0	0	0
9.62	0.035791	2.044498	0	0	0	0
9.64	0.046906	0.555737	0.046906	9.64	0	0
9.66	0.009075	-1.89154	0	0	0	0
9.68	-0.03385	-2.14647	0	0	0	0
9.7	-0.06495	-1.55504	0	0	0	0
9.72	-0.10401	-1.95273	0	0	-0.10401	9.72
9.74	-0.07423	1.488762	0	0	0	0
9.76	-0.04833	1.295019	0	0	0	0
9.78	0.012134	3.02341	0	0	0	0
9.8	0.033242	1.055389	0.033242	9.8	0	0
9.82	0.025798	-0.37219	0	0	0	0
9.84	0.014684	-0.55574	0	0	0.014684	9.84
9.86	0.016417	0.086675	0	0	0	0
9.88	0.026716	0.514948	0	0	0	0
9.9	0.038443	0.586327	0.038443	9.9	0	0
9.92	0.031101	-0.36709	0	0	0	0
9.94	-0.00224	-1.66721	0	0	0	0
9.96	-0.0313	-1.45307	0	0	0	0
9.98	-0.07138	-2.00371	0	0	0	0
10	-0.08464	-0.6628	0	0	0	0
10.02	-0.09565	-0.55064	0	0	-0.09565	10.02
10.04	-0.04242	2.661417	-0.04242	10.04	0	0
10.06	-0.05517	-0.63731	0	0	0	0
10.08	-0.09993	-2.23824	0	0	-0.09993	10.08
10.1	-0.04232	2.880652	0	0	0	0
10.12	0.009687	2.600235	0	0	0	0
10.14	0.061794	2.605333	0	0	0	0
10.16	0.098095	1.815066	0	0	0	0
10.18	0.100746	0.132561	0.100746	10.18	0	0
10.2	0.045988	-2.73789	0	0	0	0
10.22	-0.00214	-2.40649	0	0	0	0
10.24	-0.03814	-1.79977	0	0	-0.03814	10.24
10.26	-0.00826	1.49386	0	0	0	0
10.28	0.008973	0.861647	0	0	0	0
10.3	0.037015	1.402087	0	0	0	0
10.32	0.07607	1.952725	0.07607	10.32	0	0
10.34	0.047722	-1.41738	0	0	0	0
10.36	-0.03926	-4.34902	0	0	-0.03926	10.36
10.38	-0.00357	1.784475	-0.00357	10.38	0	0
10.4	-0.02488	-1.06559	0	0	-0.02488	10.4
10.42	-0.00357	1.065586	-0.00357	10.42	0	0
10.44	-0.02427	-1.035	0	0	0	0
10.46	-0.04354	-0.96362	0	0	-0.04354	10.46
10.48	-0.02865	0.744381	0	0	0	0
10.5	-0.02478	0.193743	0	0	0	0
10.52	-0.01407	0.535342	0	0	0	0

10.54	-0.00214	0.596525	0	0	0	0
10.56	0.004691	0.341599	0.004691	10.56	0	0
10.58	-0.00908	-0.6883	0	0	0	0
10.6	-0.02274	-0.6832	0	0	0	0
10.62	-0.04262	-0.99421	0	0	0	0
10.64	-0.06557	-1.14716	0	0	-0.06557	10.64
10.66	-0.04803	0.876942	0	0	0	0
10.68	-0.01111	1.845657	0	0	0	0
10.7	0.03263	2.187256	0	0	0	0
10.72	0.061896	1.463269	0.061896	10.72	0	0
10.74	0.012746	-2.45748	0	0	0.012746	10.74
10.76	0.017743	0.249826	0.017743	10.76	0	0
10.78	-0.02855	-2.31472	0	0	-0.02855	10.78
10.8	0.004079	1.63152	0	0	0	0
10.82	0.030285	1.310315	0	0	0	0
10.84	0.051495	1.060488	0.051495	10.84	0	0
10.86	0.043235	-0.41298	0	0	0	0
10.88	0.009483	-1.6876	0	0	0	0
10.9	-0.02264	-1.60603	0	0	0	0
10.92	-0.03589	-0.66281	0	0	-0.03589	10.92
10.94	-0.00632	1.478565	0	0	0	0
10.96	0.027226	1.677406	0	0	0	0
10.98	0.080658	2.671614	0.080658	10.98	0	0
11	0.072297	-0.41808	0	0	0	0
11.02	0.052922	-0.96871	0	0	0	0
11.04	0.032426	-1.0248	0	0	0	0
11.06	0.007342	-1.25423	0	0	0	0
11.08	-0.01448	-1.09108	0	0	0	0
11.1	-0.05955	-2.25354	0	0	0	0
11.12	-0.10299	-2.17196	0	0	0	0
11.14	-0.14072	-1.88644	0	0	-0.14072	11.14
11.16	-0.13562	0.254925	0	0	0	0
11.18	-0.12032	0.764775	0	0	0	0
11.2	-0.07209	2.411591	0	0	0	0
11.22	-0.06424	0.392584	-0.06424	11.22	0	0
11.24	-0.07668	-0.62202	0	0	-0.07668	11.24
11.26	-0.05853	0.907533	0	0	0	0
11.28	-0.0309	1.381694	0	0	0	0
11.3	-0.00673	1.208344	0	0	0	0
11.32	0.039258	2.299423	0	0	0	0
11.34	0.085859	2.330014	0	0	0	0
11.36	0.125423	1.978218	0	0	0	0
11.38	0.146837	1.070684	0	0	0	0
11.4	0.173349	1.32561	0	0	0	0
11.42	0.193743	1.0197	0	0	0	0
11.44	0.214137	1.0197	0.214137	11.44	0	0
11.46	0.201901	-0.61182	0	0	0	0
11.48	0.186605	-0.76478	0	0	0	0
11.5	0.16825	-0.91773	0	0	0	0
11.52	0.147856	-1.0197	0	0	0	0
11.54	0.125423	-1.12167	0	0	0	0
11.56	0.119305	-0.30591	0	0	0.119305	11.56
11.58	0.122364	0.152955	0.122364	11.58	0	0
11.6	0.072807	-2.47787	0	0	0	0
11.62	0.039258	-1.67741	0	0	0	0
11.64	-0.00867	-2.39629	0	0	0	0
11.66	-0.05088	-2.11078	0	0	0	0
11.68	-0.09504	-2.20765	0	0	0	0
11.7	-0.13664	-2.08019	0	0	0	0
11.72	-0.16927	-1.63152	0	0	-0.16927	11.72
11.74	-0.08678	4.124686	0	0	0	0
11.76	-0.04619	2.029203	0	0	0	0
11.78	-0.00286	2.166862	0	0	0	0
11.8	0.049761	2.630826	0.049761	11.8	0	0
11.82	0.040176	-0.47926	0	0	0	0
11.84	0.007138	-1.65191	0	0	0	0
11.86	-0.0414	-2.42689	0	0	0	0
11.88	-0.10503	-3.18146	0	0	0	0
11.9	-0.12236	-0.86675	0	0	0	0
11.92	-0.1397	-0.86675	0	0	0	0
11.94	-0.14174	-0.10197	0	0	0	0
11.96	-0.14786	-0.30591	0	0	-0.14786	11.96
11.98	-0.11421	1.682505	0	0	0	0
12	-0.07984	1.718195	0	0	0	0
12.02	-0.03691	2.146469	0	0	0	0
12.04	-0.02508	0.591426	-0.02508	12.04	0	0
12.06	-0.05547	-1.51935	0	0	0	0
12.08	-0.07118	-0.78517	0	0	0	0
12.1	-0.09381	-1.13187	0	0	0	0
12.12	-0.0985	-0.23453	0	0	-0.0985	12.12
12.14	-0.08504	0.673002	0	0	0	0
12.16	-0.07383	0.560835	0	0	0	0
12.18	-0.05792	0.795366	0	0	0	0
12.2	-0.04191	0.800465	0	0	0	0
12.22	-0.02641	0.774972	0	0	0	0
12.24	-0.00377	1.131867	0	0	0	0
12.26	0.023045	1.340905	0	0	0	0
12.28	0.042114	0.953419	0	0	0	0
12.3	0.056695	0.729085	0	0	0	0
12.32	0.074744	0.902435	0.074744	12.32	0	0
12.34	0.062915	-0.59143	0	0	0	0
12.36	0.036811	-1.30522	0	0	0	0
12.38	0.031509	-0.26512	0	0	0	0

12.4	0.025696	-0.29061	0	0	0	0
12.42	0.009381	-0.81576	0	0	0	0
12.44	-0.00469	-0.70359	0	0	0	0
12.46	-0.01917	-0.72399	0	0	0	0
12.48	-0.02141	-0.11217	0	0	0	0
12.5	-0.02498	-0.17845	0	0	0	0
12.52	-0.02559	-0.03059	0	0	0	0
12.54	-0.02784	-0.11217	0	0	-0.02784	12.54
12.56	-0.02141	0.321205	0	0	0	0
12.58	-0.00683	0.729085	0	0	0	0
12.6	0.007852	0.734184	0	0	0	0
12.62	0.020598	0.637313	0.020598	12.62	0	0
12.64	0.012746	-0.39258	0	0	0	0
12.66	0.005098	-0.38239	0	0	0	0
12.68	-0.00316	-0.41298	0	0	0	0
12.7	-0.01285	-0.48436	0	0	-0.01285	12.7
12.72	0.04242	2.763387	0	0	0	0
12.74	0.071379	1.447974	0.071379	12.74	0	0
12.76	0.057919	-0.673	0	0	0	0
12.78	0.057001	-0.04589	0	0	0	0
12.8	0.043031	-0.69849	0	0	0	0
12.82	0.033344	-0.48436	0	0	0	0
12.84	0.0207	-0.63221	0	0	0	0
12.86	0.013256	-0.37219	0	0	0	0
12.88	0.012746	-0.02549	0	0	0	0
12.9	0.009075	-0.18355	0	0	0	0
12.92	-0.01173	-1.04009	0	0	-0.01173	12.92
12.94	-0.00693	0.23963	0	0	0	0
12.96	0.009891	0.841252	0.009891	12.96	0	0
12.98	-0.00642	-0.81576	0	0	0	0
13	-0.01713	-0.53534	0	0	0	0
13.02	-0.04344	-1.31541	0	0	-0.04344	13.02
13.04	-0.03039	0.652608	0	0	0	0
13.06	-0.00979	1.029897	0	0	0	0
13.08	0.009585	0.968715	0	0	0	0
13.1	0.040074	1.524451	0	0	0	0
13.12	0.041298	0.061182	0.041298	13.12	0	0
13.14	0.020598	-1.035	0	0	0	0
13.16	0.005098	-0.77497	0	0	0	0
13.18	-0.02621	-1.56524	0	0	0	0
13.2	-0.03844	-0.61182	0	0	-0.03844	13.2
13.22	-0.0313	0.356895	0	0	0	0
13.24	-0.02692	0.219236	0	0	0	0
13.26	-0.01713	0.489456	0	0	0	0
13.28	-0.00795	0.458865	0	0	0	0
13.3	0.004589	0.627115	0	0	0	0
13.32	0.018457	0.693396	0.018457	13.32	0	0
13.34	0.003671	-0.73928	0	0	0	0
13.36	-0.01407	-0.88714	0	0	0	0
13.38	-0.02957	-0.77497	0	0	0	0
13.4	-0.04976	-1.0095	0	0	-0.04976	13.4
13.42	-0.0416	0.40788	0	0	0	0
13.44	-0.02437	0.861646	0	0	0	0
13.46	-0.00622	0.907533	0	0	0	0
13.48	0.00051	0.336501	0.00051	13.48	0	0
13.5	-0.01621	-0.83615	0	0	0	0
13.52	-0.02692	-0.53534	0	0	0	0
13.54	-0.04058	-0.6832	0	0	-0.04058	13.54
13.56	-0.02967	0.545539	0	0	0	0
13.58	-0.02417	0.275319	0	0	0	0
13.6	-0.0101	0.703593	0	0	0	0
13.62	0.003161	0.662805	0	0	0	0
13.64	0.017029	0.693396	0	0	0	0
13.66	0.031407	0.718888	0	0	0	0
13.68	0.043847	0.622017	0	0	0	0
13.7	0.06057	0.836154	0.06057	13.7	0	0
13.72	0.054758	-0.29061	0	0	0	0
13.74	0.017845	-1.84566	0	0	0	0
13.76	-0.00449	-1.11657	0	0	0	0
13.78	-0.02488	-1.0197	0	0	0	0
13.8	-0.04364	-0.93812	0	0	-0.04364	13.8
13.82	0.032019	3.783087	0	0	0	0
13.84	0.051495	0.973813	0.051495	13.84	0	0
13.86	0.024167	-1.3664	0	0	0.024167	13.86
13.88	0.027022	0.142758	0.027022	13.88	0	0
13.9	-0.01601	-2.15157	0	0	0	0
13.92	-0.03487	-0.94322	0	0	-0.03487	13.92
13.94	-0.02274	0.606722	-0.02274	13.94	0	0
13.96	-0.0261	-0.16825	0	0	0	0
13.98	-0.03936	-0.6628	0	0	-0.03936	13.98
14	-0.03681	0.127463	0	0	0	0
14.02	0.002039	1.942528	0	0	0	0
14.04	0.040074	1.90174	0	0	0	0
14.06	0.075254	1.758983	0	0	0	0
14.08	0.105029	1.488762	0	0	0	0
14.1	0.112167	0.356895	0.112167	14.1	0	0
14.12	0.057715	-2.7226	0	0	0	0
14.14	0.026002	-1.58563	0	0	0	0
14.16	-0.01519	-2.05979	0	0	0	0
14.18	-0.03865	-1.17266	0	0	-0.03865	14.18
14.2	-0.01846	1.009503	0	0	0	0
14.22	-0.00489	0.6781	0	0	0	0
14.24	0.025594	1.524452	0.025594	14.24	0	0

14.26	0.021516	-0.20394	0	0	0	0
14.28	-0.00214	-1.18285	0	0	0	0
14.3	-0.02111	-0.94832	0	0	0	0
14.32	-0.05058	-1.47347	0	0	0	0
14.34	-0.06965	-0.95342	0	0	-0.06965	14.34
14.36	-0.04385	1.289921	0	0	0	0
14.38	-0.01499	1.442875	0	0	0	0
14.4	0.002039	0.851449	0	0	0	0
14.42	0.030489	1.422481	0	0	0	0
14.44	0.073928	2.171961	0	0	0	0
14.46	0.094628	1.034996	0.094628	14.46	0	0
14.48	0.005608	-4.45099	0	0	0	0
14.5	-0.05792	-3.17637	0	0	0	0
14.52	-0.08351	-1.27972	0	0	-0.08351	14.52
14.54	-0.07016	0.667903	0	0	0	0
14.56	-0.04691	1.162458	0	0	0	0
14.58	-0.01815	1.437777	0	0	0	0
14.6	0.012134	1.514254	0	0	0	0
14.62	0.038341	1.310314	0	0	0	0
14.64	0.060774	1.12167	0.060774	14.64	0	0
14.66	0.05282	-0.39768	0	0	0	0
14.68	0.020904	-1.59583	0	0	0	0
14.7	0.005914	-0.74948	0	0	0	0
14.72	-0.04303	-2.44728	0	0	-0.04303	14.72
14.74	-0.03987	0.158054	0	0	0	0
14.76	-0.03457	0.265122	-0.03457	14.76	0	0
14.78	-0.05109	-0.82596	0	0	-0.05109	14.78
14.8	-0.03844	0.632214	0	0	0	0
14.82	-0.03161	0.3416	0	0	0	0
14.84	-0.02794	0.183546	-0.02794	14.84	0	0
14.86	-0.03651	-0.42827	0	0	-0.03651	14.86
14.88	-0.03355	0.147856	0	0	0	0
14.9	-0.01713	0.820859	0	0	0	0
14.92	0.003569	1.034995	0	0	0	0
14.94	0.023351	0.989109	0	0	0	0
14.96	0.067912	2.228044	0	0	0	0
14.98	0.076885	0.448668	0.076885	14.98	0	0
15	0.044765	-1.60603	0	0	0	0
15.02	0.023759	-1.05029	0	0	0	0
15.04	-0.00071	-1.22364	0	0	0	0
15.06	-0.02988	-1.45817	0	0	0	0
15.08	-0.05037	-1.0248	0	0	-0.05037	15.08
15.1	-0.03212	0.912632	0	0	0	0
15.12	-0.02305	0.453766	0	0	0	0
15.14	-0.00418	0.943223	0	0	0	0
15.16	0.007036	0.560835	0.007036	15.16	0	0
15.18	-0.00357	-0.53024	0	0	0	0
15.2	-0.01795	-0.71889	0	0	-0.01795	15.2
15.22	-0.01733	0.030591	0	0	0	0
15.24	-0.00479	0.627115	0	0	0	0
15.26	0.00775	0.627115	0	0	0	0
15.28	0.03416	1.320511	0	0	0	0
15.3	0.043745	0.479259	0.043745	15.3	0	0
15.32	0.031509	-0.61182	0	0	0	0
15.34	0.023963	-0.37729	0	0	0	0
15.36	0.00724	-0.83615	0	0	0.00724	15.36
15.38	0.009789	0.127463	0	0	0	0
15.4	0.038545	1.437777	0	0	0	0
15.42	0.046804	0.412979	0	0	0	0
15.44	0.051087	0.214137	0.051087	15.44	0	0
15.46	0.037321	-0.6883	0	0	0	0
15.48	0.030897	-0.32121	0	0	0	0
15.5	0.018355	-0.62712	0	0	0.018355	15.5
15.52	0.022943	0.229433	0.022943	15.52	0	0
15.54	0.022841	-0.0051	0	0	0.022841	15.54
15.56	0.027838	0.249826	0.027838	15.56	0	0
15.58	0.024269	-0.17845	0	0	0	0
15.6	0.016315	-0.39768	0	0	0	0
15.62	0.009891	-0.32121	0	0	0	0
15.64	0.003671	-0.31101	0	0	0	0
15.66	-0.00357	-0.36199	0	0	-0.00357	15.66
15.68	-0.00214	0.071379	0	0	0	0
15.7	0.004487	0.331402	0	0	0	0
15.72	0.018966	0.723987	0	0	0	0
15.74	0.037117	0.907533	0	0	0	0
15.76	0.04711	0.499653	0	0	0	0
15.78	0.058429	0.565933	0	0	0	0
15.8	0.072093	0.683199	0.072093	15.8	0	0
15.82	0.062202	-0.49455	0	0	0	0
15.84	0.025391	-1.84056	0	0	0	0
15.86	0.007648	-0.88714	0	0	0	0
15.88	0.005812	-0.09177	0	0	0	0
15.9	0.005098	-0.03569	0	0	0.005098	15.9
15.92	0.006526	0.071379	0.006526	15.92	0	0
15.94	-0.00173	-0.41298	0	0	0	0
15.96	-0.03079	-1.45307	0	0	0	0
15.98	-0.05588	-1.25423	0	0	-0.05588	15.98
16	-0.04997	0.295713	0	0	0	0
16.02	-0.04803	0.096872	0	0	0	0
16.04	-0.03447	0.6781	0	0	0	0
16.06	-0.02274	0.586328	0	0	0	0
16.08	-0.00775	0.749479	0	0	0	0
16.1	0.003773	0.57613	0	0	0	0

16.12	0.019068	0.764775	0	0	0	0
16.14	0.029469	0.520047	0	0	0	0
16.16	0.04242	0.647509	0	0	0	0
16.18	0.050373	0.397683	0	0	0	0
16.2	0.064853	0.723987	0.064853	16.2	0	0
16.22	0.049455	-0.76987	0	0	0	0
16.24	0.024473	-1.24913	0	0	0	0
16.26	0.006322	-0.90753	0	0	0	0
16.28	-0.02254	-1.44288	0	0	0	0
16.3	-0.02529	-0.13766	0	0	-0.02529	16.3
16.32	0.010401	1.784475	0.010401	16.32	0	0
16.34	-0.00704	-0.87184	0	0	0	0
16.36	-0.01662	-0.47926	0	0	0	0
16.38	-0.02978	-0.65771	0	0	0	0
16.4	-0.04507	-0.76477	0	0	0	0
16.42	-0.05455	-0.47416	0	0	-0.05455	16.42
16.44	-0.03793	0.831055	0	0	0	0
16.46	-0.01825	0.984011	0	0	0	0
16.48	0.005608	1.193049	0	0	0	0
16.5	0.035995	1.519353	0	0	0	0
16.52	0.042318	0.316107	0.042318	16.52	0	0
16.54	0.033752	-0.42827	0	0	0	0
16.56	0.030999	-0.13766	0	0	0	0
16.58	0.019374	-0.58123	0	0	0	0
16.6	0.01244	-0.3467	0	0	0	0
16.62	0.00153	-0.54554	0	0	0	0
16.64	-0.0051	-0.3314	0	0	0	0
16.66	-0.02111	-0.80046	0	0	0	0
16.68	-0.03039	-0.46396	0	0	0	0
16.7	-0.03661	-0.31101	0	0	0	0
16.72	-0.04476	-0.40788	0	0	0	0
16.74	-0.04925	-0.22433	0	0	-0.04925	16.74
16.76	-0.04568	0.178447	0	0	0	0
16.78	-0.04303	0.132561	0	0	0	0
16.8	-0.03844	0.229433	0	0	0	0
16.82	-0.03334	0.254925	0	0	0	0
16.84	-0.02774	0.280418	0	0	0	0
16.86	-0.02294	0.23963	0	0	0	0
16.88	-0.01683	0.30591	0	0	0	0
16.9	-0.01275	0.20394	0	0	0	0
16.92	-0.01173	0.050985	-0.01173	16.92	0	0
16.94	-0.01244	-0.03569	0	0	-0.01244	16.94
16.96	-0.01152	0.045886	-0.01152	16.96	0	0
16.98	-0.01203	-0.02549	0	0	-0.01203	16.98
17	-0.00031	0.586328	0	0	0	0
17.02	0.008362	0.433372	0	0	0	0
17.04	0.026206	0.892238	0	0	0	0
17.06	0.037423	0.560835	0	0	0	0
17.08	0.053432	0.800465	0.053432	17.08	0	0
17.1	-0.01132	-3.23755	0	0	0	0
17.12	-0.0312	-0.99421	0	0	-0.0312	17.12
17.14	-0.02702	0.209039	-0.02702	17.14	0	0
17.16	-0.03273	-0.28552	0	0	-0.03273	17.16
17.18	-0.01621	0.825957	0	0	0	0
17.2	-0.0051	0.555736	0	0	0	0
17.22	0.008973	0.703593	0.008973	17.22	0	0
17.24	0.001632	-0.36709	0	0	0	0
17.26	-0.00449	-0.30591	0	0	0	0
17.28	-0.0156	-0.55574	0	0	0	0
17.3	-0.02345	-0.39258	0	0	-0.02345	17.3
17.32	-0.01815	0.265122	0	0	0	0
17.34	-0.0154	0.137659	0	0	0	0
17.36	-0.00928	0.30591	0	0	0	0
17.38	-0.00387	0.270221	0	0	0	0
17.4	0.002651	0.326304	0	0	0	0
17.42	0.005812	0.158053	0.005812	17.42	0	0
17.44	-0.00041	-0.31101	0	0	0	0
17.46	-0.00591	-0.27532	0	0	0	0
17.48	-0.01244	-0.3263	0	0	-0.01244	17.48
17.5	-0.00714	0.265122	0	0	0	0
17.52	0.022535	1.483663	0	0	0	0
17.54	0.046906	1.218541	0	0	0	0
17.56	0.082086	1.758982	0	0	0	0
17.58	0.084737	0.132561	0.084737	17.58	0	0
17.6	0.04711	-1.88135	0	0	0	0
17.62	0.023249	-1.19305	0	0	0	0
17.64	-0.00928	-1.62642	0	0	0	0
17.66	-0.03518	-1.29502	0	0	0	0
17.68	-0.06026	-1.25423	0	0	0	0
17.7	-0.07943	-0.95852	0	0	0	0
17.72	-0.08698	-0.37729	0	0	-0.08698	17.72
17.74	-0.07546	0.576131	0	0	0	0
17.76	-0.06587	0.479259	0	0	0	0
17.78	-0.06424	0.081576	0	0	0	0
17.8	-0.05884	0.27022	0	0	0	0
17.82	-0.03977	0.95342	0	0	0	0
17.84	-0.02529	0.723987	0	0	0	0
17.86	-0.01275	0.627115	-0.01275	17.86	0	0
17.88	-0.01876	-0.30081	0	0	-0.01876	17.88
17.9	-0.01366	0.254925	0	0	0	0
17.92	-0.00286	0.540441	0	0	0	0
17.94	0.019068	1.096177	0.019068	17.94	0	0
17.96	0.017131	-0.09687	0	0	0	0

17.98	0.003773	-0.6679	0	0	0	0
18	-0.00704	-0.54044	0	0	0	0
18.02	-0.00826	-0.06118	0	0	-0.00826	18.02
18.04	0.000816	0.453767	0	0	0	0
18.06	0.003773	0.147856	0	0	0	0
18.08	0.012134	0.418077	0	0	0	0
18.1	0.017845	0.285516	0	0	0	0
18.12	0.024983	0.356895	0	0	0	0
18.14	0.030897	0.295713	0	0	0	0
18.16	0.037423	0.326304	0	0	0	0
18.18	0.042318	0.244728	0.042318	18.18	0	0
18.2	0.039768	-0.12746	0	0	0	0
18.22	0.036811	-0.14786	0	0	0	0
18.24	0.034058	-0.13766	0	0	0	0
18.26	0.026512	-0.37729	0	0	0	0
18.28	0.014378	-0.60672	0	0	0	0
18.3	0.002243	-0.60672	0	0	0	0
18.32	-0.0104	-0.63221	0	0	0	0
18.34	-0.01917	-0.43847	0	0	-0.01917	18.34
18.36	-0.00744	0.586327	0	0	0	0
18.38	0.005914	0.667903	0	0	0	0
18.4	0.028858	1.147162	0	0	0	0
18.42	0.030693	0.091773	0.030693	18.42	0	0
18.44	0.015092	-0.78007	0	0	0	0
18.46	0.003365	-0.58633	0	0	0	0
18.48	-0.01764	-1.05029	0	0	0	0
18.5	-0.02478	-0.35689	0	0	-0.02478	18.5
18.52	-0.02305	0.086674	0	0	0	0
18.54	-0.02101	0.10197	0	0	0	0
18.56	-0.01489	0.30591	0	0	0	0
18.58	-0.00051	0.718889	0	0	0	0
18.6	0.013664	0.708691	0	0	0	0
18.62	0.028144	0.723987	0	0	0	0
18.64	0.043949	0.790267	0	0	0	0
18.66	0.049353	0.270221	0	0	0	0
18.68	0.055676	0.316107	0	0	0	0
18.7	0.058735	0.152955	0	0	0	0
18.72	0.065261	0.326304	0.065261	18.72	0	0
18.74	0.051291	-0.69849	0	0	0	0
18.76	0.023453	-1.39189	0	0	0	0
18.78	0.000816	-1.13187	0	0	0	0
18.8	-0.02855	-1.46837	0	0	0	0
18.82	-0.05435	-1.28992	0	0	0	0
18.84	-0.0829	-1.42758	0	0	0	0
18.86	-0.09595	-0.65261	0	0	-0.09595	18.86
18.88	-0.0776	0.91773	0	0	0	0
18.9	-0.06414	0.673002	0	0	0	0
18.92	-0.03691	1.361299	0	0	0	0
18.94	-0.00724	1.483663	0	0	0	0
18.96	0.00571	0.647509	0.00571	18.96	0	0
18.98	0.004079	-0.08158	0	0	0.004079	18.98
19	0.007036	0.147857	0.007036	19	0	0
19.02	0.005608	-0.07138	0	0	0.005608	19.02
19.04	0.00724	0.081576	0.00724	19.04	0	0
19.06	-0.00816	-0.76987	0	0	0	0
19.08	-0.00928	-0.05608	0	0	0	0
19.1	-0.0105	-0.06118	0	0	0	0
19.12	-0.02631	-0.79027	0	0	0	0
19.14	-0.03712	-0.54044	0	0	0	0
19.16	-0.04905	-0.59652	0	0	0	0
19.18	-0.05547	-0.32121	0	0	-0.05547	19.18
19.2	-0.03232	1.15736	0	0	0	0
19.22	-0.00959	1.136966	0	0	0	0
19.24	0.00051	0.504751	0.00051	19.24	0	0
19.26	-0.00632	-0.3416	0	0	0	0
19.28	-0.01091	-0.22943	0	0	0	0
19.3	-0.02172	-0.54044	0	0	-0.02172	19.3
19.32	-0.00581	0.795366	0	0	0	0
19.34	0.005812	0.581229	0	0	0	0
19.36	0.020394	0.729085	0	0	0	0
19.38	0.031713	0.565934	0	0	0	0
19.4	0.045071	0.667904	0	0	0	0
19.42	0.045886	0.040788	0	0	0	0
19.44	0.051291	0.27022	0	0	0	0
19.46	0.054656	0.168251	0.054656	19.46	0	0
19.48	0.046906	-0.38749	0	0	0	0
19.5	0.034466	-0.62202	0	0	0	0
19.52	0.023657	-0.54044	0	0	0	0
19.54	0.00826	-0.76987	0	0	0	0
19.56	-0.00551	-0.6883	0	0	0	0
19.58	-0.0206	-0.75458	0	0	0	0
19.6	-0.03243	-0.59143	0	0	0	0
19.62	-0.04568	-0.66281	0	0	0	0
19.64	-0.05782	-0.60672	0	0	0	0
19.66	-0.06648	-0.43337	0	0	-0.06648	19.66
19.68	-0.05343	0.652608	0	0	0	0
19.7	-0.04222	0.560835	0	0	0	0
19.72	-0.02559	0.831056	0	0	0	0
19.74	-0.00887	0.836154	0	0	0	0
19.76	0.010911	0.989109	0	0	0	0
19.78	0.030489	0.978912	0	0	0	0
19.8	0.04915	0.933026	0	0	0	0
19.82	0.068422	0.963616	0	0	0	0

19.84	0.072909	0.224334	0.072909	19.84	0	0
19.86	0.049863	-1.15226	0	0	0	0
19.88	0.037831	-0.60162	0	0	0	0
19.9	0.016825	-1.05029	0	0	0	0
19.92	-0.005	-1.09108	0	0	0	0
19.94	-0.0257	-1.035	0	0	0	0
19.96	-0.05415	-1.42248	0	0	0	0
19.98	-0.06648	-0.61692	0	0	-0.06648	19.98
20	-0.04405	1.12167	0	0	0	0
20.02	-0.03141	0.632214	0	0	0	0
20.04	-0.00959	1.091079	0	0	0	0
20.06	0.0052	0.739282	0	0	0	0
20.08	0.024677	0.973814	0	0	0	0
20.1	0.03987	0.759676	0	0	0	0
20.12	0.056185	0.81576	0.056185	20.12	0	0
20.14	0.042012	-0.70869	0	0	0	0
20.16	0.026716	-0.76477	0	0	0	0
20.18	0.005914	-1.04009	0	0	0	0
20.2	-0.01387	-0.98911	0	0	0	0
20.22	-0.02927	-0.76987	0	0	0	0
20.24	-0.03232	-0.15296	0	0	-0.03232	20.24
20.26	-0.02621	0.30591	0	0	0	0
20.28	-0.01489	0.565934	0	0	0	0
20.3	-0.00071	0.708692	0	0	0	0
20.32	0.017845	0.927927	0	0	0	0
20.34	0.040584	1.136965	0	0	0	0
20.36	0.057613	0.85145	0	0	0	0
20.38	0.073622	0.800464	0	0	0	0
20.4	0.0828	0.458865	0.0828	20.4	0	0
20.42	0.079944	-0.14276	0	0	0.079944	20.42
20.44	0.085961	0.300812	0.085961	20.44	0	0
20.46	0.06934	-0.83106	0	0	0	0
20.48	0.052107	-0.86165	0	0	0	0
20.5	0.03467	-0.87184	0	0	0	0
20.52	0.01499	-0.98401	0	0	0	0
20.54	-0.00337	-0.91773	0	0	0	0
20.56	-0.02325	-0.99421	0	0	0	0
20.58	-0.04181	-0.92793	0	0	0	0
20.6	-0.05914	-0.86674	0	0	-0.05914	20.6
20.62	-0.03936	0.989109	-0.03936	20.62	0	0
20.64	-0.04619	-0.3416	0	0	0	0
20.66	-0.05822	-0.60162	0	0	0	0
20.68	-0.06812	-0.49455	0	0	0	0
20.7	-0.08056	-0.62202	0	0	0	0
20.72	-0.09667	-0.80556	0	0	-0.09667	20.72
20.74	-0.093	0.183546	0	0	0	0
20.76	-0.06465	1.417383	0	0	0	0
20.78	-0.02672	1.896642	0	0	0	0
20.8	0.024371	2.554348	0	0	0	0
20.82	0.086369	3.099888	0	0	0	0
20.84	0.093099	0.336501	0.093099	20.84	0	0
20.86	0.074948	-0.90753	0	0	0	0
20.88	0.062712	-0.61182	0	0	0	0
20.9	0.037015	-1.28482	0	0	0	0
20.92	0.015397	-1.08088	0	0	0	0
20.94	-0.01203	-1.3715	0	0	0	0
20.96	-0.03253	-1.0248	0	0	-0.03253	20.96
20.98	-0.02213	0.520047	0	0	0	0
21	-0.01693	0.260024	0	0	0	0
21.02	-0.0052	0.586328	-0.0052	21.02	0	0
21.04	-0.00877	-0.17845	0	0	0	0
21.06	-0.0101	-0.06628	0	0	0	0
21.08	-0.01672	-0.3314	0	0	-0.01672	21.08
21.1	-0.00286	0.693396	0	0	0	0
21.12	0.017947	1.040094	0	0	0	0
21.14	0.03936	1.070685	0	0	0	0
21.16	0.047212	0.392585	0.047212	21.16	0	0
21.18	0.036913	-0.51495	0	0	0	0
21.2	0.028959	-0.39768	0	0	0	0
21.22	0.016315	-0.63221	0	0	0	0
21.24	0.00153	-0.73928	0	0	0	0
21.26	-0.01479	-0.81576	0	0	0	0
21.28	-0.03059	-0.79027	0	0	0	0
21.3	-0.04752	-0.84635	0	0	0	0
21.32	-0.05894	-0.57103	0	0	-0.05894	21.32
21.34	-0.05129	0.382388	0	0	0	0
21.36	-0.04619	0.254925	0	0	0	0
21.38	-0.03742	0.438471	0	0	0	0
21.4	-0.02784	0.479259	0	0	0	0
21.42	-0.02223	0.280417	-0.02223	21.42	0	0
21.44	-0.03518	-0.64751	0	0	0	0
21.46	-0.03732	-0.10707	0	0	0	0
21.48	-0.04823	-0.54554	0	0	0	0
21.5	-0.05007	-0.09177	0	0	-0.05007	21.5
21.52	-0.03049	0.978912	0	0	0	0
21.54	-0.01142	0.95342	0	0	0	0
21.56	0.00826	0.98401	0	0	0	0
21.58	0.031407	1.157359	0.031407	21.58	0	0
21.6	0.021618	-0.48946	0	0	0	0
21.62	0.002549	-0.95342	0	0	0	0
21.64	-0.01407	-0.83106	0	0	0	0
21.66	-0.03875	-1.23384	0	0	0	0
21.68	-0.0468	-0.40278	0	0	-0.0468	21.68

21.7	-0.03457	0.61182	0	0	0	0
21.72	-0.02498	0.479259	0	0	0	0
21.74	-0.00806	0.846351	0	0	0	0
21.76	0.007546	0.78007	0	0	0	0
21.78	0.022841	0.764775	0	0	0	0
21.8	0.034466	0.581229	0	0	0	0
21.82	0.042114	0.382388	0.042114	21.82	0	0
21.84	0.028959	-0.65771	0	0	0	0
21.86	0.027532	-0.07138	0	0	0	0
21.88	0.019272	-0.41298	0	0	0	0
21.9	0.013562	-0.28552	0	0	0	0
21.92	0.006832	-0.3365	0	0	0	0
21.94	0.000204	-0.3314	0	0	0	0
21.96	-0.00959	-0.48946	0	0	0	0
21.98	-0.01825	-0.43337	0	0	0	0
22	-0.02804	-0.48946	0	0	0	0
22.02	-0.03651	-0.42318	0	0	-0.03651	22.02
22.04	-0.02835	0.40788	0	0	0	0
22.06	-0.01662	0.586327	0	0	0	0
22.08	-0.00551	0.555736	0	0	0	0
22.1	0.009687	0.759676	0	0	0	0
22.12	0.016927	0.361994	0	0	0	0
22.14	0.020496	0.178448	0	0	0	0
22.16	0.030795	0.514949	0	0	0	0
22.18	0.037729	0.346698	0	0	0	0
22.2	0.046294	0.428274	0.046294	22.2	0	0
22.22	0.036097	-0.50985	0	0	0	0
22.24	0.022127	-0.69849	0	0	0	0
22.26	0.007444	-0.73418	0	0	0	0
22.28	-0.00673	-0.70869	0	0	-0.00673	22.28
22.3	0.005302	0.601623	0	0	0	0
22.32	0.017029	0.586328	0	0	0	0
22.34	0.029877	0.642411	0	0	0	0
22.36	0.04864	0.938124	0.04864	22.36	0	0
22.38	0.03416	-0.72399	0	0	0	0
22.4	0.000102	-1.7029	0	0	0	0
22.42	-0.01366	-0.6883	0	0	0	0
22.44	-0.03865	-1.24913	0	0	0	0
22.46	-0.0671	-1.42248	0	0	0	0
22.48	-0.06863	-0.07648	0	0	-0.06863	22.48
22.5	-0.03355	1.753884	0	0	0	0
22.52	-0.01683	0.836154	0	0	0	0
22.54	0.015092	1.59583	0	0	0	0
22.56	0.043643	1.42758	0	0	0	0
22.58	0.072501	1.442875	0.072501	22.58	0	0
22.6	0.052922	-0.97891	0	0	0	0
22.62	0.036301	-0.83106	0	0	0	0
22.64	0.0052	-1.55504	0	0	0	0
22.66	-0.04446	-2.48297	0	0	0	0
22.68	-0.05241	-0.39768	0	0	-0.05241	22.68
22.7	-0.04782	0.229433	0	0	0	0
22.72	-0.04099	0.3416	0	0	0	0
22.74	-0.02274	0.912632	0	0	0	0
22.76	-0.01091	0.591426	0	0	0	0
22.78	0.003671	0.729085	0	0	0	0
22.8	0.016009	0.616918	0	0	0	0
22.82	0.028246	0.61182	0.028246	22.82	0	0
22.84	0.019272	-0.44867	0	0	0	0
22.86	0.011829	-0.37219	0	0	0	0
22.88	0.000204	-0.58123	0	0	0	0
22.9	-0.01111	-0.56593	0	0	0	0
22.92	-0.02457	-0.673	0	0	0	0
22.94	-0.03467	-0.50475	0	0	0	0
22.96	-0.04864	-0.69849	0	0	-0.04864	22.96
22.98	-0.03926	0.469062	0	0	0	0
23	-0.01999	0.963616	0	0	0	0
23.02	-0.00867	0.565934	0	0	0	0
23.04	0.008667	0.866745	0	0	0	0
23.06	0.0207	0.601623	0	0	0	0
23.08	0.036097	0.769874	0	0	0	0
23.1	0.04242	0.316107	0.04242	23.1	0	0
23.12	0.035384	-0.3518	0	0	0	0
23.14	0.027226	-0.40788	0	0	0	0
23.16	0.014174	-0.65261	0	0	0	0
23.18	0.000918	-0.6628	0	0	0	0
23.2	-0.01336	-0.71379	0	0	0	0
23.22	-0.02988	-0.82596	0	0	0	0
23.24	-0.03243	-0.12746	0	0	-0.03243	23.24
23.26	-0.02019	0.61182	0	0	0	0
23.28	-0.01417	0.300812	0	0	0	0
23.3	-0.00347	0.535342	0	0	0	0
23.32	0.006526	0.499653	0	0	0	0
23.34	0.008056	0.076477	0.008056	23.34	0	0
23.36	-0.00112	-0.45886	0	0	-0.00112	23.36
23.38	0.005404	0.326304	0	0	0	0
23.4	0.011829	0.321206	0	0	0	0
23.42	0.019884	0.402781	0.019884	23.42	0	0
23.44	0.018966	-0.04589	0	0	0	0
23.46	0.014174	-0.23963	0	0	0.014174	23.46
23.48	0.017437	0.163152	0	0	0	0
23.5	0.02121	0.188644	0.02121	23.5	0	0
23.52	0.014888	-0.31611	0	0	0	0
23.54	0.008667	-0.31101	0	0	0	0

23.56	0.001326	-0.36709	0	0	0	0
23.58	-0.00673	-0.40278	0	0	0	0
23.6	-0.01479	-0.40278	0	0	0	0
23.62	-0.02335	-0.42827	0	0	0	0
23.64	-0.03192	-0.42827	0	0	0	0
23.66	-0.04089	-0.44867	0	0	0	0
23.68	-0.04884	-0.39768	0	0	0	0
23.7	-0.05996	-0.55574	0	0	0	0
23.72	-0.06893	-0.44867	0	0	-0.06893	23.72
23.74	-0.05588	0.652608	0	0	0	0
23.76	-0.04211	0.688297	0	0	0	0
23.78	-0.02111	1.050291	0	0	0	0
23.8	-0.00051	1.029897	0	0	0	0
23.82	0.022433	1.147162	0	0	0	0
23.84	0.046804	1.218542	0	0	0	0
23.86	0.06934	1.126768	0	0	0	0
23.88	0.095138	1.289921	0.095138	23.88	0	0
23.9	0.094322	-0.04079	0	0	0	0
23.92	0.08127	-0.65261	0	0	0	0
23.94	0.065975	-0.76477	0	0	0	0
23.96	0.037831	-1.40719	0	0	0	0
23.98	0.015601	-1.11147	0	0	0	0
24	-0.01458	-1.50916	0	0	0	0
24.02	-0.02957	-0.74948	0	0	-0.02957	24.02
24.04	-0.00163	1.396989	0	0	0	0
24.06	0.024779	1.320511	0	0	0	0
24.08	0.049353	1.228739	0	0	0	0
24.1	0.074234	1.244034	0.074234	24.1	0	0
24.12	0.044561	-1.48366	0	0	0	0
24.14	0.015499	-1.45307	0	0	0	0
24.16	-0.01917	-1.73349	0	0	0	0
24.18	-0.0518	-1.63152	0	0	0	0
24.2	-0.08464	-1.64172	0	0	-0.08464	24.2
24.22	-0.07821	0.321206	0	0	0	0
24.24	-0.06302	0.759676	0	0	0	0
24.26	-0.04772	0.764775	0	0	0	0
24.28	-0.02682	1.045193	0	0	0	0
24.3	0.002345	1.458171	0	0	0	0
24.32	0.039156	1.840559	0	0	0	0
24.34	0.072807	1.682505	0	0	0	0
24.36	0.101052	1.412284	0.101052	24.36	0	0
24.38	0.069747	-1.56524	0	0	0	0
24.4	-0.01825	-4.40001	0	0	0	0
24.42	-0.07719	-2.94693	0	0	-0.07719	24.42
24.44	-0.05955	0.88204	0	0	0	0
24.46	-0.05272	0.3416	0	0	0	0
24.48	-0.02988	1.142064	0	0	0	0
24.5	-0.00693	1.147162	0	0	0	0
24.52	0.015295	1.111473	0	0	0	0
24.54	0.040074	1.238935	0	0	0	0
24.56	0.062712	1.131867	0	0	0	0
24.58	0.088612	1.295019	0.088612	24.58	0	0
24.6	0.083921	-0.23453	0	0	0	0
24.62	0.062915	-1.05029	0	0	0	0
24.64	0.04711	-0.79027	0	0	0	0
24.66	0.021108	-1.30012	0	0	0	0
24.68	-0.00775	-1.44288	0	0	0	0
24.7	-0.03508	-1.3664	0	0	0	0
24.72	-0.05975	-1.23384	0	0	0	0
24.74	-0.08627	-1.32561	0	0	0	0
24.76	-0.11013	-1.19305	0	0	0	0
24.78	-0.12032	-0.50985	0	0	-0.12032	24.78
24.8	-0.10085	0.973814	0	0	0	0
24.82	-0.08718	0.683199	0	0	0	0
24.84	-0.06689	1.014602	0	0	0	0
24.86	-0.04742	0.973813	0	0	0	0
24.88	-0.02621	1.060488	0	0	0	0
24.9	-0.00479	1.070685	0	0	0	0
24.92	0.016927	1.08598	0	0	0	0
24.94	0.038647	1.085981	0	0	0	0
24.96	0.060468	1.091079	0	0	0	0
24.98	0.08076	1.014601	0	0	0	0
25	0.098095	0.866745	0	0	0	0
25.02	0.117266	0.958518	0	0	0	0
25.04	0.133581	0.81576	0	0	0	0
25.06	0.151935	0.91773	0.151935	25.06	0	0
25.08	0.138679	-0.6628	0	0	0	0
25.1	0.115226	-1.17265	0	0	0	0
25.12	0.092283	-1.14716	0	0	0	0
25.14	0.057715	-1.72839	0	0	0	0
25.16	0.027124	-1.52955	0	0	0	0
25.18	-0.00714	-1.7131	0	0	0	0
25.2	-0.04476	-1.88135	0	0	0	0
25.22	-0.07434	-1.47856	0	0	-0.07434	25.22
25.24	-0.04691	1.371497	0	0	0	0
25.26	-0.01601	1.544845	0	0	0	0
25.28	0.0207	1.83546	0	0	0	0
25.3	0.058225	1.876248	0	0	0	0
25.32	0.092283	1.702899	0.092283	25.32	0	0
25.34	0.064037	-1.41228	0	0	0	0
25.36	0.031407	-1.63152	0	0	0	0
25.38	-0.00714	-1.92723	0	0	0	0
25.4	-0.04222	-1.75388	0	0	-0.04222	25.4

25.42	-0.02641	0.790268	0	0	0	0
25.44	-0.01744	0.448668	0	0	0	0
25.46	0.005608	1.152261	0	0	0	0
25.48	0.029979	1.218541	0	0	0	0
25.5	0.052515	1.126768	0	0	0	0
25.52	0.078007	1.274625	0	0	0	0
25.54	0.088918	0.545539	0.088918	25.54	0	0
25.56	0.074234	-0.73418	0	0	0	0
25.58	0.064241	-0.49965	0	0	0	0
25.6	0.044051	-1.0095	0	0	0	0
25.62	0.019476	-1.22874	0	0	0	0
25.64	-0.00367	-1.15736	0	0	0	0
25.66	-0.02825	-1.22874	0	0	0	0
25.68	-0.03232	-0.20394	0	0	0	0
25.7	-0.03457	-0.11217	0	0	0	0
25.72	-0.03732	-0.13766	0	0	0	0
25.74	-0.04181	-0.22433	0	0	-0.04181	25.74
25.76	-0.04028	0.076477	-0.04028	25.76	0	0
25.78	-0.04262	-0.11727	0	0	-0.04262	25.78
25.8	0.009075	2.584939	0	0	0	0
25.82	0.049863	2.0394	0	0	0	0
25.84	0.097381	2.375901	0	0	0	0
25.86	0.117266	0.994208	0.117266	25.86	0	0
25.88	0.090957	-1.31541	0	0	0	0
25.9	0.071379	-0.97891	0	0	0	0
25.92	0.039972	-1.57034	0	0	0	0
25.94	0.008158	-1.59073	0	0	0	0
25.96	-0.02947	-1.88135	0	0	0	0
25.98	-0.06118	-1.58563	0	0	-0.06118	25.98
26	-0.05251	0.433373	0	0	0	0
26.02	-0.05017	0.117265	0	0	0	0
26.04	-0.04079	0.469062	0	0	0	0
26.06	-0.03141	0.469062	0	0	0	0
26.08	-0.02039	0.550638	0	0	0	0
26.1	-0.01254	0.392584	0	0	0	0
26.12	-0.00428	0.412979	-0.00428	26.12	0	0
26.14	-0.01662	-0.61692	0	0	0	0
26.16	-0.04619	-1.47856	0	0	0	0
26.18	-0.07118	-1.24913	0	0	0	0
26.2	-0.08688	-0.78517	0	0	0	0
26.22	-0.09065	-0.18864	0	0	-0.09065	26.22
26.24	-0.08453	0.30591	0	0	0	0
26.26	-0.07311	0.571032	0	0	0	0
26.28	-0.05394	0.958518	0	0	0	0
26.3	-0.02427	1.483664	0	0	0	0
26.32	-0.00133	1.147162	0	0	0	0
26.34	0.012134	0.673002	0	0	0	0
26.36	0.0259	0.688298	0	0	0	0
26.38	0.035791	0.494554	0	0	0	0
26.4	0.041502	0.285516	0	0	0	0
26.42	0.04762	0.30591	0.04762	26.42	0	0
26.44	0.044561	-0.15296	0	0	0	0
26.46	0.022535	-1.10128	0	0	0	0
26.48	0.002243	-1.0146	0	0	0	0
26.5	-0.02019	-1.12167	0	0	0	0
26.52	-0.04558	-1.26953	0	0	-0.04558	26.52
26.54	-0.0363	0.463964	0	0	0	0
26.56	-0.01468	1.080882	0	0	0	0
26.58	0.00673	1.070685	0	0	0	0
26.6	0.035791	1.453072	0	0	0	0
26.62	0.0621	1.315413	0.0621	26.62	0	0
26.64	0.059958	-0.10707	0	0	0	0
26.66	0.044969	-0.74948	0	0	0	0
26.68	0.033446	-0.57613	0	0	0	0
26.7	0.013868	-0.97891	0	0	0	0
26.72	-0.00143	-0.76477	0	0	0	0
26.74	-0.01958	-0.90753	0	0	0	0
26.76	-0.02131	-0.08667	0	0	-0.02131	26.76
26.78	-0.01499	0.316107	-0.01499	26.78	0	0
26.8	-0.01958	-0.22943	0	0	-0.01958	26.8
26.82	-0.01713	0.122364	0	0	0	0
26.84	-0.0103	0.341599	0	0	0	0
26.86	-0.00245	0.392585	0	0	0	0
26.88	0.006322	0.438471	0	0	0	0
26.9	0.015907	0.479259	0.015907	26.9	0	0
26.92	0.014582	-0.06628	0	0	0	0
26.94	0.013358	-0.06118	0	0	0	0
26.96	0.009789	-0.17845	0	0	0	0
26.98	0.006628	-0.15805	0	0	0	0
27	0.00153	-0.25492	0	0	0.00153	27
27.02	0.006016	0.224334	0	0	0	0
27.04	0.018253	0.61182	0	0	0	0
27.06	0.028858	0.530244	0	0	0	0
27.08	0.035486	0.331403	0.035486	27.08	0	0
27.1	0.018762	-0.83615	0	0	0	0
27.12	0.007036	-0.58633	0	0	0	0
27.14	-0.01336	-1.0197	0	0	0	0
27.16	-0.03222	-0.94322	0	0	0	0
27.18	-0.05506	-1.14206	0	0	-0.05506	27.18
27.2	-0.04925	0.290615	0	0	0	0
27.22	-0.03029	0.948321	0	0	0	0
27.24	-0.01305	0.861647	0	0	0	0
27.26	0.006832	0.994207	0.006832	27.26	0	0

27.28	-0.00082	-0.38239	0	0	0	0
27.3	-0.00928	-0.42318	0	0	0	0
27.32	-0.01795	-0.43337	0	0	0	0
27.34	-0.02957	-0.58123	0	0	0	0
27.36	-0.04089	-0.56593	0	0	0	0
27.38	-0.04997	-0.45377	0	0	-0.04997	27.38
27.4	-0.04476	0.260023	0	0	0	0
27.42	-0.03569	0.453767	0	0	0	0
27.44	-0.02519	0.525145	0	0	0	0
27.46	-0.01632	0.44357	0	0	0	0
27.48	-0.0103	0.300811	-0.0103	27.48	0	0
27.5	-0.01917	-0.44357	0	0	0	0
27.52	-0.02203	-0.14276	0	0	0	0
27.54	-0.0257	-0.18355	0	0	-0.0257	27.54
27.56	-0.02233	0.168251	0	0	0	0
27.58	-0.01346	0.44357	-0.01346	27.58	0	0
27.6	-0.01448	-0.05098	0	0	0	0
27.62	-0.02264	-0.40788	0	0	0	0
27.64	-0.02549	-0.14276	0	0	0	0
27.66	-0.03324	-0.38749	0	0	0	0
27.68	-0.03854	-0.26512	0	0	-0.03854	27.68
27.7	-0.03365	0.244728	0	0	0	0
27.72	-0.02947	0.209039	0	0	0	0
27.74	-0.0259	0.178448	0	0	0	0
27.76	-0.02243	0.173349	0	0	0	0
27.78	-0.01917	0.163152	0	0	0	0
27.8	-0.01611	0.152955	0	0	0	0
27.82	-0.01346	0.132561	0	0	0	0
27.84	-0.01234	0.056083	0	0	0	0
27.86	-0.0106	0.086675	0	0	0	0
27.88	-0.00714	0.173349	0	0	0	0
27.9	-0.00337	0.188645	0	0	0	0
27.92	-0.00163	0.086674	0	0	0	0
27.94	0.001326	0.147856	0.001326	27.94	0	0
27.96	-0.00204	-0.16825	0	0	0	0
27.98	-0.00948	-0.37219	0	0	0	0
28	-0.01499	-0.27532	0	0	0	0
28.02	-0.02427	-0.46396	0	0	0	0
28.04	-0.02488	-0.03059	0	0	-0.02488	28.04
28.06	-0.01876	0.30591	0	0	0	0
28.08	-0.01693	0.091773	0	0	0	0
28.1	-0.01213	0.23963	0	0	0	0
28.12	-0.00724	0.244728	0	0	0	0
28.14	-0.00214	0.254925	0	0	0	0
28.16	0.000306	0.122364	0.000306	28.16	0	0
28.18	-0.0104	-0.53534	0	0	0	0
28.2	-0.01774	-0.36709	0	0	0	0
28.22	-0.02825	-0.52515	0	0	-0.02825	28.22
28.24	-0.01723	0.550638	0	0	0	0
28.26	-0.00428	0.647509	0	0	0	0
28.28	0.016111	1.0197	0	0	0	0
28.3	0.016723	0.030591	0.016723	28.3	0	0
28.32	0.001937	-0.73928	0	0	0	0
28.34	-0.00428	-0.31101	0	0	0	0
28.36	-0.0157	-0.57103	0	0	0	0
28.38	-0.02559	-0.49455	0	0	0	0
28.4	-0.03589	-0.51495	0	0	-0.03589	28.4
28.42	-0.02855	0.367092	0	0	0	0
28.44	-0.01846	0.504751	0	0	0	0
28.46	-0.00204	0.820859	0	0	0	0
28.48	0.010401	0.622017	0	0	0	0
28.5	0.021516	0.555737	0	0	0	0
28.52	0.028552	0.351796	0.028552	28.52	0	0
28.54	0.01346	-0.75458	0	0	0	0
28.56	0.009075	-0.21924	0	0	0	0
28.58	0.000612	-0.42318	0	0	0	0
28.6	-0.005	-0.28042	0	0	0	0
28.62	-0.00999	-0.24983	0	0	-0.00999	28.62
28.64	-0.00806	0.096872	0	0	0	0
28.66	-0.00214	0.295713	0	0	0	0
28.68	0.00102	0.158053	0.00102	28.68	0	0
28.7	-0.00897	-0.49965	0	0	0	0
28.72	-0.01601	-0.3518	0	0	0	0
28.74	-0.02182	-0.29061	0	0	-0.02182	28.74
28.76	-0.01621	0.280417	0	0	0	0
28.78	-0.00337	0.642411	0	0	0	0
28.8	0.010605	0.698494	0	0	0	0
28.82	0.023453	0.642411	0	0	0	0
28.84	0.029163	0.285516	0.029163	28.84	0	0
28.86	0.023657	-0.27532	0	0	0	0
28.88	0.013562	-0.50475	0	0	0	0
28.9	0.000612	-0.64751	0	0	0	0
28.92	-0.01234	-0.64751	0	0	0	0
28.94	-0.02508	-0.63731	0	0	0	0
28.96	-0.02559	-0.02549	0	0	-0.02559	28.96
28.98	-0.01958	0.300812	0	0	0	0
29	-0.01428	0.265122	0	0	0	0
29.02	-0.00663	0.382388	0	0	0	0
29.04	0.000204	0.341599	0	0	0	0
29.06	0.00775	0.377289	0	0	0	0
29.08	0.01448	0.336501	0	0	0	0
29.1	0.022433	0.397683	0	0	0	0
29.12	0.024881	0.122364	0.024881	29.12	0	0

29.14	0.017539	-0.36709	0	0	0	0
29.16	0.011319	-0.31101	0	0	0	0
29.18	0.003671	-0.38239	0	0	0	0
29.2	-0.0051	-0.43847	0	0	0	0
29.22	-0.0106	-0.27532	0	0	0	0
29.24	-0.01693	-0.31611	0	0	-0.01693	29.24
29.26	-0.01285	0.20394	0	0	0	0
29.28	-0.00255	0.514949	0	0	0	0
29.3	0.005914	0.423175	0.005914	29.3	0	0
29.32	0.005812	-0.0051	0	0	0	0
29.34	0	-0.29061	0	0	0	0
29.36	-0.00173	-0.08667	0	0	-0.00173	29.36
29.38	-0.00112	0.030591	0	0	0	0
29.4	-0.0001	0.050985	0	0	0	0
29.42	0.004283	0.219235	0	0	0	0
29.44	0.017233	0.647509	0	0	0	0
29.46	0.021618	0.219236	0	0	0	0
29.48	0.029571	0.397683	0.029571	29.48	0	0
29.5	0.021516	-0.40278	0	0	0	0
29.52	0.004793	-0.83615	0	0	0	0
29.54	-0.00765	-0.62202	0	0	0	0
29.56	-0.01264	-0.24983	0	0	-0.01264	29.56
29.58	-0.00377	0.443569	0	0	0	0
29.6	0.006934	0.535342	0	0	0	0
29.62	0.018864	0.596524	0	0	0	0
29.64	0.028959	0.504752	0	0	0	0
29.66	0.039768	0.540441	0	0	0	0
29.68	0.044459	0.234531	0.044459	29.68	0	0
29.7	0.041808	-0.13256	0	0	0	0
29.72	0.034976	-0.3416	0	0	0	0
29.74	0.028654	-0.31611	0	0	0	0
29.76	0.020394	-0.41298	0	0	0	0
29.78	0.013154	-0.36199	0	0	0	0
29.8	0.006424	-0.3365	0	0	0	0
29.82	-0.0002	-0.3314	0	0	0	0
29.84	-0.00591	-0.28552	0	0	0	0
29.86	-0.00704	-0.05608	0	0	0	0
29.88	-0.0102	-0.15805	0	0	0	0
29.9	-0.01152	-0.06628	0	0	0	0
29.92	-0.0154	-0.19374	0	0	0	0
29.94	-0.01897	-0.17845	0	0	0	0
29.96	-0.02009	-0.05608	0	0	0	0
29.98	-0.0207	-0.03059	0	0	0	0
30	-0.02315	-0.12236	0	0	-0.02315	30
30.02	-0.01672	0.321206	0	0	0	0
30.04	-0.00479	0.596524	0	0	0	0
30.06	0.004691	0.47416	0	0	0	0
30.08	0.01499	0.514948	0	0	0	0
30.1	0.025289	0.514948	0	0	0	0
30.12	0.026716	0.071379	0.026716	30.12	0	0
30.14	0.023963	-0.13766	0	0	0.023963	30.14
30.16	0.024779	0.040788	0	0	0	0
30.18	0.028348	0.178448	0	0	0	0
30.2	0.031917	0.178448	0	0	0	0
30.22	0.033854	0.096872	0.033854	30.22	0	0
30.24	0.023861	-0.49965	0	0	0	0
30.26	0.014582	-0.46396	0	0	0	0
30.28	0.007036	-0.37729	0	0	0	0
30.3	-0.00122	-0.41298	0	0	0	0
30.32	-0.01264	-0.57103	0	0	0	0
30.34	-0.02294	-0.51495	0	0	0	0
30.36	-0.03396	-0.55064	0	0	0	0
30.38	-0.03396	0	0	0	0	0
30.4	-0.0313	0.132561	0	0	0	0
30.42	-0.02406	0.361993	0	0	0	0
30.44	-0.01632	0.387486	0	0	0	0
30.46	-0.00826	0.402781	0	0	0	0
30.48	-0.00551	0.13766	0	0	0	0
30.5	-0.00255	0.147857	0	0	0	0
30.52	0.001122	0.183546	0	0	0	0
30.54	0.004691	0.178447	0	0	0	0
30.56	0.008464	0.188645	0	0	0	0
30.58	0.011523	0.152955	0	0	0	0
30.6	0.01295	0.071379	0.01295	30.6	0	0
30.62	0.009993	-0.14786	0	0	0	0
30.64	0.005812	-0.20904	0	0	0	0
30.66	0.00153	-0.21414	0	0	0	0
30.68	-0.00438	-0.29571	0	0	0	0
30.7	-0.00948	-0.25492	0	0	0	0
30.72	-0.0153	-0.29061	0	0	0	0
30.74	-0.0205	-0.26002	0	0	0	0
30.76	-0.0259	-0.27022	0	0	0	0
30.78	-0.0312	-0.26512	0	0	0	0
30.8	-0.03569	-0.22433	0	0	0	0
30.82	-0.03783	-0.10707	0	0	-0.03783	30.82
30.84	-0.03467	0.158053	0	0	0	0
30.86	-0.01937	0.764775	0	0	0	0
30.88	-0.00724	0.606721	0	0	0	0
30.9	0.007444	0.734184	0	0	0	0
30.92	0.021822	0.718888	0	0	0	0
30.94	0.033038	0.560835	0.033038	30.94	0	0
30.96	0.027022	-0.30081	0	0	0	0
30.98	0.024881	-0.10707	0	0	0	0

31	0.019068	-0.29061	0	0	0	0
31.02	0.013664	-0.27022	0	0	0	0
31.04	0.007648	-0.30081	0	0	0	0
31.06	0.002753	-0.24473	0	0	0.002753	31.06
31.08	0.003977	0.061182	0	0	0	0
31.1	0.006424	0.122364	0.006424	31.1	0	0
31.12	0.003059	-0.16825	0	0	0	0
31.14	-0.0001	-0.15805	0	0	0	0
31.16	-0.00438	-0.21414	0	0	0	0
31.18	-0.00612	-0.08667	0	0	-0.00612	31.18
31.2	-0.00337	0.13766	0	0	0	0
31.22	-0.00133	0.10197	0	0	0	0
31.24	-0.0001	0.061182	-0.0001	31.24	0	0
31.26	-0.00622	-0.30591	0	0	0	0
31.28	-0.00877	-0.12746	0	0	0	0
31.3	-0.01091	-0.10707	0	0	0	0
31.32	-0.01285	-0.09687	0	0	0	0
31.34	-0.01499	-0.10707	0	0	-0.01499	31.34
31.36	-0.01213	0.142758	0	0	0	0
31.38	-0.00724	0.244728	0	0	0	0
31.4	-0.00255	0.234531	0	0	0	0
31.42	0.002549	0.254925	0	0	0	0
31.44	0.003263	0.03569	0	0	0	0
31.46	0.004283	0.050985	0	0	0	0
31.48	0.007444	0.158054	0	0	0	0
31.5	0.011523	0.20394	0	0	0	0
31.52	0.015703	0.209038	0	0	0	0
31.54	0.019986	0.214137	0	0	0	0
31.56	0.024779	0.239629	0.024779	31.56	0	0
31.58	0.021822	-0.14786	0	0	0	0
31.6	0.014684	-0.35689	0	0	0	0
31.62	0.008565	-0.30591	0	0	0	0
31.64	0.002243	-0.31611	0	0	0.002243	31.64
31.66	0.007852	0.280417	0	0	0	0
31.68	0.011319	0.173349	0	0	0	0
31.7	0.017743	0.321205	0	0	0	0
31.72	0.019578	0.091773	0.019578	31.72	0	0
31.74	0.01295	-0.3314	0	0	0	0
31.76	0.008464	-0.22433	0	0	0	0
31.78	0.000714	-0.38749	0	0	0	0
31.8	-0.00387	-0.22943	0	0	-0.00387	31.8
31.82	-0.00286	0.050985	0	0	0	0
31.84	-0.00112	0.086674	-0.00112	31.84	0	0
31.86	-0.00755	-0.32121	0	0	0	0
31.88	-0.01795	-0.52005	0	0	0	0
31.9	-0.0257	-0.38749	0	0	-0.0257	31.9
31.92	-0.02039	0.265122	0	0	0	0
31.94	-0.01733	0.152955	0	0	0	0
31.96	-0.00999	0.367092	0	0	0	0
31.98	-0.00326	0.336501	0	0	0	0
32	0.004283	0.377289	0	0	0	0
32.02	0.011319	0.351797	0	0	0	0
32.04	0.018049	0.336501	0.018049	32.04	0	0
32.06	0.012746	-0.26512	0	0	0	0
32.08	0.007852	-0.24473	0	0	0	0
32.1	0.001326	-0.3263	0	0	0	0
32.12	-0.0054	-0.3365	0	0	0	0
32.14	-0.00795	-0.12746	0	0	0	0
32.16	-0.00928	-0.06628	0	0	0	0
32.18	-0.01111	-0.09177	0	0	0	0
32.2	-0.01122	-0.0051	0	0	-0.01122	32.2
32.22	-0.01111	0.005099	0	0	0	0
32.24	-0.00724	0.193743	0	0	0	0
32.26	-0.00082	0.321205	0	0	0	0
32.28	0.004487	0.265122	0	0	0	0
32.3	0.012032	0.377289	0	0	0	0
32.32	0.013154	0.056083	0.013154	32.32	0	0
32.34	0.007342	-0.29061	0	0	0	0
32.36	0.002957	-0.21924	0	0	0	0
32.38	-0.00357	-0.3263	0	0	0	0
32.4	-0.00989	-0.31611	0	0	0	0
32.42	-0.01458	-0.23453	0	0	-0.01458	32.42
32.44	-0.01397	0.030591	-0.01397	32.44	0	0
32.46	-0.01458	-0.03059	0	0	-0.01458	32.46
32.48	-0.01377	0.040788	0	0	0	0
32.5	-0.01193	0.091773	0	0	0	0
32.52	-0.00387	0.402781	0	0	0	0
32.54	0.002141	0.300811	0	0	0	0
32.56	0.011115	0.448668	0	0	0	0
32.58	0.011727	0.030591	0.011727	32.58	0	0
32.6	0.005914	-0.29061	0	0	0	0
32.62	0.001937	-0.19884	0	0	0	0
32.64	-0.00479	-0.3365	0	0	0	0
32.66	-0.00591	-0.05608	0	0	0	0
32.68	-0.00683	-0.04589	0	0	0	0
32.7	-0.00734	-0.02549	0	0	-0.00734	32.7
32.72	-0.00724	0.005098	0	0	0	0
32.74	-0.0054	0.091773	0	0	0	0
32.76	-0.00286	0.127463	-0.00286	32.76	0	0
32.78	-0.0054	-0.12746	0	0	0	0
32.8	-0.0106	-0.26002	0	0	0	0
32.82	-0.01499	-0.21924	0	0	0	0
32.84	-0.02019	-0.26002	0	0	-0.02019	32.84

32.86	-0.0157	0.224334	0	0	0	0
32.88	-0.01264	0.152955	0	0	0	0
32.9	-0.00734	0.265122	0	0	0	0
32.92	-0.00449	0.142758	0	0	0	0
32.94	-0.00357	0.045887	0	0	0	0
32.96	-0.00255	0.050985	0	0	0	0
32.98	-0.00051	0.10197	0	0	0	0
33	0.002651	0.158053	0	0	0	0
33.02	0.004283	0.081576	0	0	0	0
33.04	0.005098	0.040788	0	0	0	0
33.06	0.00775	0.132561	0	0	0	0
33.08	0.011727	0.198842	0	0	0	0
33.1	0.016315	0.229432	0.016315	33.1	0	0
33.12	0.01397	-0.11727	0	0	0	0
33.14	0.007954	-0.30081	0	0	0	0
33.16	0.002957	-0.24983	0	0	0	0
33.18	-0.00357	-0.3263	0	0	0	0
33.2	-0.0053	-0.08667	0	0	0	0
33.22	-0.00836	-0.15295	0	0	0	0
33.24	-0.01203	-0.18355	0	0	0	0
33.26	-0.01356	-0.07648	0	0	-0.01356	33.26
33.28	-0.01254	0.050985	-0.01254	33.28	0	0
33.3	-0.01285	-0.0153	0	0	0	0
33.32	-0.01366	-0.04079	0	0	-0.01366	33.32
33.34	-0.01152	0.107068	0	0	0	0
33.36	-0.00591	0.280418	0	0	0	0
33.38	-0.00133	0.229433	0	0	0	0
33.4	0.004691	0.300811	0	0	0	0
33.42	0.010095	0.27022	0	0	0	0
33.44	0.016315	0.311009	0	0	0	0
33.46	0.020802	0.224334	0	0	0	0
33.48	0.023759	0.147856	0	0	0	0
33.5	0.024677	0.045887	0.024677	33.5	0	0
33.52	0.021414	-0.16315	0	0	0	0
33.54	0.017131	-0.21414	0	0	0	0
33.56	0.012134	-0.24983	0	0	0	0
33.58	0.00724	-0.24473	0	0	0	0
33.6	0.004997	-0.11217	0	0	0	0
33.62	0.003059	-0.09687	0	0	0.003059	33.62
33.64	0.004283	0.061182	0	0	0	0
33.66	0.00622	0.096872	0.00622	33.66	0	0
33.68	0.005404	-0.04079	0	0	0	0
33.7	0.001733	-0.18355	0	0	0	0
33.72	-0.00112	-0.14276	0	0	0	0
33.74	-0.0053	-0.20904	0	0	0	0
33.76	-0.00908	-0.18864	0	0	0	0
33.78	-0.01152	-0.12236	0	0	-0.01152	33.78
33.8	-0.00938	0.107069	0	0	0	0
33.82	-0.00459	0.239629	0	0	0	0
33.84	0.001122	0.285516	0	0	0	0
33.86	0.006934	0.290615	0	0	0	0
33.88	0.012338	0.27022	0.012338	33.88	0	0
33.9	0.00724	-0.25493	0	0	0	0
33.92	0.003977	-0.16315	0	0	0	0
33.94	-0.00122	-0.26002	0	0	0	0
33.96	-0.00235	-0.05608	0	0	-0.00235	33.96
33.98	-0.00224	0.005098	0	0	0	0
34	-0.0001	0.107068	0	0	0	0
34.02	0.002549	0.132561	0	0	0	0
34.04	0.004079	0.076478	0.004079	34.04	0	0
34.06	-0.00092	-0.24983	0	0	0	0
34.08	-0.00459	-0.18355	0	0	0	0
34.1	-0.00999	-0.27022	0	0	0	0
34.12	-0.01509	-0.25493	0	0	0	0
34.14	-0.01978	-0.23453	0	0	-0.01978	34.14
34.16	-0.01683	0.147857	0	0	0	0
34.18	-0.01468	0.107068	0	0	0	0
34.2	-0.01132	0.16825	0	0	0	0
34.22	-0.00867	0.132561	0	0	0	0
34.24	-0.00581	0.142758	0	0	0	0
34.26	-0.00235	0.173349	0	0	0	0
34.28	0.001632	0.198841	0	0	0	0
34.3	0.005506	0.193743	0	0	0	0
34.32	0.008769	0.163152	0	0	0	0
34.34	0.010095	0.06628	0	0	0	0
34.36	0.012032	0.096872	0	0	0	0
34.38	0.013256	0.061182	0	0	0	0
34.4	0.015194	0.096871	0.015194	34.4	0	0
34.42	0.014378	-0.04079	0	0	0	0
34.44	0.010299	-0.20394	0	0	0	0
34.46	0.006424	-0.19374	0	0	0	0
34.48	0.00153	-0.24473	0	0	0	0
34.5	-0.00235	-0.19374	0	0	0	0
34.52	-0.00489	-0.12746	0	0	0	0
34.54	-0.00765	-0.13766	0	0	0	0
34.56	-0.00999	-0.11727	0	0	0	0
34.58	-0.01091	-0.04589	0	0	0	0
34.6	-0.01132	-0.02039	0	0	-0.01132	34.6
34.62	-0.00826	0.152955	0	0	0	0
34.64	-0.00173	0.326304	0	0	0	0
34.66	0.004793	0.326304	0	0	0	0
34.68	0.009075	0.214137	0.009075	34.68	0	0
34.7	0.008973	-0.0051	0	0	0	0

34.72	0.007648	-0.06628	0	0	0	0
34.74	0.005404	-0.11217	0	0	0	0
34.76	0.005404	0	0	0	0	0
34.78	0.007342	0.096871	0.007342	34.78	0	0
34.8	0.003773	-0.17845	0	0	0	0
34.82	0.000714	-0.15295	0	0	0	0
34.84	-0.00194	-0.13256	0	0	0	0
34.86	-0.00347	-0.07648	0	0	0	0
34.88	-0.00561	-0.10707	0	0	0	0
34.9	-0.00765	-0.10197	0	0	0	0
34.92	-0.00806	-0.02039	0	0	-0.00806	34.92
34.94	-0.0052	0.142758	0	0	0	0
34.96	-0.00459	0.030591	0	0	0	0
34.98	-0.00459	0	0	0	0	0
35	-0.0053	-0.03569	0	0	-0.0053	35
35.02	-0.00163	0.183546	0	0	0	0
35.04	0.00571	0.367092	0	0	0	0
35.06	0.007648	0.096871	0	0	0	0
35.08	0.009075	0.071379	0	0	0	0
35.1	0.010503	0.071379	0	0	0	0
35.12	0.011115	0.030591	0	0	0	0
35.14	0.012032	0.045887	0.012032	35.14	0	0
35.16	0.009789	-0.11217	0	0	0	0
35.18	0.00673	-0.15296	0	0	0	0
35.2	0.003773	-0.14786	0	0	0	0
35.22	0.000918	-0.14276	0	0	0.000918	35.22
35.24	0.002549	0.081576	0	0	0	0
35.26	0.003365	0.040788	0	0	0	0
35.28	0.005404	0.10197	0	0	0	0
35.3	0.006526	0.056083	0	0	0	0
35.32	0.006934	0.020394	0.006934	35.32	0	0
35.34	0.005404	-0.07648	0	0	0	0
35.36	-0.00061	-0.30081	0	0	0	0
35.38	-0.00622	-0.28042	0	0	0	0
35.4	-0.0106	-0.21924	0	0	-0.0106	35.4
35.42	-0.0105	0.005098	0	0	0	0
35.44	-0.00826	0.112167	0	0	0	0
35.46	-0.00347	0.23963	0	0	0	0
35.48	0.000918	0.219235	0	0	0	0
35.5	0.006016	0.254925	0	0	0	0
35.52	0.009993	0.198841	0	0	0	0
35.54	0.010605	0.030591	0.010605	35.54	0	0
35.56	0.009075	-0.07648	0	0	0	0
35.58	0.005404	-0.18355	0	0	0	0
35.6	0.003365	-0.10197	0	0	0	0
35.62	0.003059	-0.0153	0	0	0	0
35.64	0.002549	-0.02549	0	0	0	0
35.66	0.002243	-0.0153	0	0	0	0
35.68	-0.00143	-0.18355	0	0	0	0
35.7	-0.00469	-0.16315	0	0	0	0
35.72	-0.00846	-0.18864	0	0	0	0
35.74	-0.01254	-0.20394	0	0	0	0
35.76	-0.01448	-0.09687	0	0	-0.01448	35.76
35.78	-0.00969	0.239629	0	0	0	0
35.8	-0.00632	0.168251	0	0	0	0
35.82	-0.00102	0.265122	0	0	0	0
35.84	0.001937	0.147856	0	0	0	0
35.86	0.002957	0.050985	0	0	0	0
35.88	0.004487	0.076477	0	0	0	0
35.9	0.005098	0.030591	0	0	0	0
35.92	0.006322	0.061182	0.006322	35.92	0	0
35.94	0.005812	-0.02549	0	0	0	0
35.96	0.003977	-0.09177	0	0	0	0
35.98	0.001326	-0.13256	0	0	0	0
36	-0.00235	-0.18355	0	0	0	0
36.02	-0.00571	-0.16825	0	0	0	0
36.04	-0.00959	-0.19374	0	0	0	0
36.06	-0.01234	-0.13766	0	0	-0.01234	36.06
36.08	-0.0106	0.086675	0	0	0	0
36.1	-0.00867	0.096871	0	0	0	0
36.12	-0.00265	0.300811	0	0	0	0
36.14	0.002855	0.275319	0	0	0	0
36.16	0.009177	0.316107	0	0	0	0
36.18	0.01448	0.265122	0	0	0	0
36.2	0.016825	0.117265	0.016825	36.2	0	0
36.22	0.016723	-0.0051	0	0	0	0
36.24	0.014582	-0.10707	0	0	0	0
36.26	0.012746	-0.09177	0	0	0	0
36.28	0.010095	-0.13256	0	0	0	0
36.3	0.007036	-0.15295	0	0	0	0
36.32	0.002549	-0.22433	0	0	0	0
36.34	-0.00122	-0.18864	0	0	0	0
36.36	-0.00489	-0.18355	0	0	-0.00489	36.36
36.38	-0.00235	0.127463	0	0	0	0
36.4	-0.00153	0.040788	0	0	0	0
36.42	-0.00112	0.020394	0	0	0	0
36.44	-0.0001	0.050985	0	0	0	0
36.46	0.00051	0.030591	0.00051	36.46	0	0
36.48	0.000408	-0.0051	0	0	0	0
36.5	-0.00071	-0.05608	0	0	0	0
36.52	-0.00122	-0.02549	0	0	-0.00122	36.52
36.54	0.000102	0.066281	0	0	0	0
36.56	0.001224	0.056083	0	0	0	0

36.58	0.002651	0.071379	0	0	0	0
36.6	0.003671	0.050985	0.003671	36.6	0	0
36.62	0.002549	-0.05608	0	0	0	0
36.64	0.00102	-0.07648	0	0	0	0
36.66	-0.00092	-0.09687	0	0	0	0
36.68	-0.00296	-0.10197	0	0	0	0
36.7	-0.0051	-0.10707	0	0	0	0
36.72	-0.00683	-0.08667	0	0	0	0
36.74	-0.00724	-0.02039	0	0	0	0
36.76	-0.00744	-0.0102	0	0	-0.00744	36.76
36.78	-0.00683	0.030591	0	0	0	0
36.8	-0.00653	0.015295	0	0	0	0
36.82	-0.00581	0.03569	-0.00581	36.82	0	0
36.84	-0.00591	-0.0051	0	0	0	0
36.86	-0.00765	-0.08667	0	0	0	0
36.88	-0.00897	-0.06628	0	0	0	0
36.9	-0.01081	-0.09177	0	0	0	0
36.92	-0.01203	-0.06118	0	0	-0.01203	36.92
36.94	-0.01162	0.020394	0	0	0	0
36.96	-0.0105	0.056083	0	0	0	0
36.98	-0.00918	0.066281	0	0	0	0
37	-0.00775	0.071379	0	0	0	0
37.02	-0.00663	0.056083	-0.00663	37.02	0	0
37.04	-0.00734	-0.03569	0	0	0	0
37.06	-0.00836	-0.05098	0	0	0	0
37.08	-0.00959	-0.06118	0	0	0	0
37.1	-0.01091	-0.06628	0	0	0	0
37.12	-0.01234	-0.07138	0	0	0	0
37.14	-0.01336	-0.05098	0	0	-0.01336	37.14
37.16	-0.01264	0.03569	0	0	0	0
37.18	-0.01213	0.025492	0	0	0	0
37.2	-0.01132	0.040788	0	0	0	0
37.22	-0.0106	0.03569	0	0	0	0
37.24	-0.00826	0.117265	0	0	0	0
37.26	-0.00438	0.193743	0	0	0	0
37.28	-0.00102	0.16825	0	0	0	0
37.3	0.007342	0.418077	0	0	0	0
37.32	0.012134	0.239629	0	0	0	0
37.34	0.013868	0.086675	0.013868	37.34	0	0
37.36	0.013562	-0.0153	0	0	0	0
37.38	0.012338	-0.06118	0	0	0	0
37.4	0.011115	-0.06118	0	0	0	0
37.42	0.009381	-0.08667	0	0	0	0
37.44	0.007648	-0.08667	0	0	0	0
37.46	0.004079	-0.17845	0	0	0	0
37.48	0.001428	-0.13256	0	0	0	0
37.5	-0.00255	-0.19884	0	0	-0.00255	37.5
37.52	-0.00133	0.061182	0	0	0	0
37.54	0.003569	0.244728	0	0	0	0
37.56	0.007036	0.173349	0	0	0	0
37.58	0.012848	0.290615	0	0	0	0
37.6	0.014786	0.096871	0.014786	37.6	0	0
37.62	0.011523	-0.16315	0	0	0	0
37.64	0.009381	-0.10707	0	0	0	0
37.66	0.007954	-0.07138	0	0	0	0
37.68	0.006424	-0.07648	0	0	0	0
37.7	0.005608	-0.04079	0	0	0.005608	37.7
37.72	0.007546	0.096872	0	0	0	0
37.74	0.008871	0.06628	0	0	0	0
37.76	0.010809	0.096872	0	0	0	0
37.78	0.010911	0.005098	0.010911	37.78	0	0
37.8	0.010503	-0.02039	0	0	0.010503	37.8
37.82	0.010809	0.015295	0	0	0	0
37.84	0.011727	0.045886	0	0	0	0
37.86	0.012338	0.030591	0	0	0	0
37.88	0.012848	0.025492	0.012848	37.88	0	0
37.9	0.011727	-0.05608	0	0	0	0
37.92	0.010503	-0.06118	0	0	0	0
37.94	0.008056	-0.12236	0	0	0	0
37.96	0.005914	-0.10707	0	0	0	0
37.98	0.003467	-0.12236	0	0	0	0
38	0.000918	-0.12746	0	0	0	0
38.02	-0.00071	-0.08158	0	0	-0.00071	38.02
38.04	0.002753	0.173349	0	0	0	0
38.06	0.006526	0.188644	0	0	0	0
38.08	0.011217	0.234531	0	0	0	0
38.1	0.015805	0.229432	0.015805	38.1	0	0
38.12	0.015092	-0.03569	0	0	0	0
38.14	0.013664	-0.07138	0	0	0	0
38.16	0.012134	-0.07648	0	0	0	0
38.18	0.009789	-0.11727	0	0	0	0
38.2	0.007852	-0.09687	0	0	0	0
38.22	0.00571	-0.10707	0	0	0.00571	38.22
38.24	0.006016	0.015296	0	0	0	0
38.26	0.006424	0.020394	0	0	0	0
38.28	0.006934	0.025492	0	0	0	0
38.3	0.00775	0.040788	0	0	0	0
38.32	0.008362	0.030591	0	0	0	0
38.34	0.009279	0.045887	0.009279	38.34	0	0
38.36	0.009177	-0.0051	0	0	0	0
38.38	0.005914	-0.16315	0	0	0	0
38.4	0.002957	-0.14786	0	0	0	0
38.42	0.00102	-0.09687	0	0	0	0

38.44	0.000306	-0.03569	0	0	0	0
38.46	-0.00133	-0.08158	0	0	0	0
38.48	-0.00214	-0.04079	0	0	0	0
38.5	-0.00357	-0.07138	0	0	-0.00357	38.5
38.52	-0.00337	0.010197	0	0	0	0
38.54	-0.00122	0.107068	0	0	0	0
38.56	0.000408	0.081576	0	0	0	0
38.58	0.000918	0.025492	0	0	0	0
38.6	0.001733	0.040788	0.001733	38.6	0	0
38.62	0.001122	-0.03059	0	0	0	0
38.64	-0.00041	-0.07648	0	0	0	0
38.66	-0.00163	-0.06118	0	0	0	0
38.68	-0.00337	-0.08667	0	0	0	0
38.7	-0.00489	-0.07648	0	0	0	0
38.72	-0.00663	-0.08667	0	0	-0.00663	38.72
38.74	-0.00653	0.005098	0	0	0	0
38.76	-0.005	0.076478	0	0	0	0
38.78	-0.00357	0.071379	0	0	0	0
38.8	0.001122	0.234531	0	0	0	0
38.82	0.002855	0.086674	0	0	0	0
38.84	0.005302	0.122364	0	0	0	0
38.86	0.005506	0.010197	0.005506	38.86	0	0
38.88	0.004487	-0.05098	0	0	0	0
38.9	0.003467	-0.05098	0	0	0	0
38.92	0.003161	-0.0153	0	0	0.003161	38.92
38.94	0.003671	0.025493	0	0	0	0
38.96	0.003773	0.005099	0.003773	38.96	0	0
38.98	0.002549	-0.06118	0	0	0	0
39	0.00102	-0.07648	0	0	0	0
39.02	-0.00031	-0.06628	0	0	0	0
39.04	-0.00122	-0.04589	0	0	0	0
39.06	-0.00194	-0.03569	0	0	0	0
39.08	-0.00469	-0.13766	0	0	0	0
39.1	-0.00836	-0.18355	0	0	0	0
39.12	-0.01101	-0.13256	0	0	-0.01101	39.12
39.14	-0.0103	0.035689	0	0	0	0
39.16	-0.00795	0.117266	0	0	0	0
39.18	-0.0054	0.127462	0	0	0	0
39.2	-0.00224	0.158053	0	0	0	0
39.22	0.000714	0.147856	0	0	0	0
39.24	0.003263	0.127462	0	0	0	0
39.26	0.003875	0.030591	0.003875	39.26	0	0
39.28	0.002957	-0.04589	0	0	0	0
39.3	0.002345	-0.03059	0	0	0	0
39.32	0.001224	-0.05608	0	0	0.001224	39.32
39.34	0.002039	0.040788	0	0	0	0
39.36	0.003569	0.076478	0.003569	39.36	0	0
39.38	0.002753	-0.04079	0	0	0	0
39.4	0.001326	-0.07138	0	0	0	0
39.42	0.000204	-0.05608	0	0	0	0
39.44	-0.00173	-0.09687	0	0	0	0
39.46	-0.00255	-0.04079	0	0	-0.00255	39.46
39.48	-0.00204	0.025493	0	0	0	0
39.5	-0.00163	0.020394	0	0	0	0
39.52	-0.00102	0.030591	0	0	0	0
39.54	-0.0002	0.040788	-0.0002	39.54	0	0
39.56	-0.00102	-0.04079	0	0	0	0
39.58	-0.00245	-0.07138	0	0	0	0
39.6	-0.00398	-0.07648	0	0	0	0
39.62	-0.0051	-0.05608	0	0	-0.0051	39.62
39.64	-0.00479	0.015296	0	0	0	0
39.66	-0.00224	0.127462	0	0	0	0
39.68	0.001733	0.198841	0	0	0	0
39.7	0.005404	0.183546	0	0	0	0
39.72	0.009789	0.219236	0	0	0	0
39.74	0.01346	0.183546	0	0	0	0
39.76	0.014888	0.071379	0.014888	39.76	0	0
39.78	0.013256	-0.08158	0	0	0	0
39.8	0.011115	-0.10707	0	0	0	0
39.82	0.008464	-0.13256	0	0	0	0
39.84	0.006424	-0.10197	0	0	0.006424	39.84
39.86	0.00724	0.040788	0	0	0	0
39.88	0.007546	0.015296	0	0	0	0
39.9	0.008056	0.025493	0.008056	39.9	0	0
39.92	0.004589	-0.17335	0	0	0	0
39.94	0.001632	-0.14786	0	0	0	0
39.96	-0.00184	-0.17335	0	0	0	0
39.98	-0.00571	-0.19374	0	0	0	0
40	-0.00775	-0.10197	0	0	0	0
40.02	-0.00785	-0.0051	0	0	0	0
40.04	-0.00846	-0.03059	0	0	-0.00846	40.04
40.06	-0.00826	0.010197	0	0	0	0
40.08	-0.00775	0.025493	0	0	0	0
40.1	-0.00734	0.020394	-0.00734	40.1	0	0
40.12	-0.00867	-0.06628	0	0	0	0
40.14	-0.00938	-0.03569	0	0	0	0
40.16	-0.01081	-0.07138	0	0	0	0
40.18	-0.01183	-0.05098	0	0	0	0
40.2	-0.01305	-0.06118	0	0	0	0
40.22	-0.01417	-0.05608	0	0	0	0
40.24	-0.01468	-0.02549	0	0	-0.01468	40.24
40.26	-0.01336	0.06628	0	0	0	0
40.28	-0.01244	0.045887	0	0	0	0

40.3	-0.01091	0.076478	0	0	0	0
40.32	-0.0104	0.025492	-0.0104	40.32	0	0
40.34	-0.01213	-0.08667	0	0	0	0
40.36	-0.01366	-0.07648	0	0	0	0
40.38	-0.0156	-0.09687	0	0	0	0
40.4	-0.01754	-0.09687	0	0	-0.01754	40.4
40.42	-0.01733	0.010197	0	0	0	0
40.44	-0.01601	0.066281	0	0	0	0
40.46	-0.01285	0.158053	0	0	0	0
40.48	-0.00959	0.163152	0	0	0	0
40.5	-0.00612	0.173349	0	0	0	0
40.52	-0.00337	0.137659	0	0	0	0
40.54	-0.0002	0.158053	0	0	0	0
40.56	0.002039	0.112167	0	0	0	0
40.58	0.002651	0.030591	0.002651	40.58	0	0
40.6	0.002243	-0.02039	0	0	0	0
40.62	0.001632	-0.03059	0	0	0	0
40.64	0.000816	-0.04079	0	0	0	0
40.66	-0.00061	-0.07138	0	0	0	0
40.68	-0.00316	-0.12746	0	0	0	0
40.7	-0.00551	-0.11727	0	0	0	0
40.72	-0.00724	-0.08667	0	0	-0.00724	40.72
40.74	-0.00602	0.061182	0	0	0	0
40.76	-0.00489	0.056083	0	0	0	0
40.78	-0.00286	0.10197	0	0	0	0
40.8	-0.00102	0.091773	0	0	0	0
40.82	0.00153	0.127462	0	0	0	0
40.84	0.003773	0.112167	0	0	0	0
40.86	0.006118	0.117265	0.006118	40.86	0	0
40.88	0.005914	-0.0102	0	0	0	0
40.9	0.005098	-0.04079	0	0	0.005098	40.9
40.92	0.00571	0.030591	0	0	0	0
40.94	0.006628	0.045887	0	0	0	0
40.96	0.007648	0.050985	0	0	0	0
40.98	0.00826	0.030591	0.00826	40.98	0	0
41	0.007546	-0.03569	0	0	0	0
41.02	0.007036	-0.02549	0	0	0	0
41.04	0.00622	-0.04079	0	0	0	0
41.06	0.005404	-0.04079	0	0	0	0
41.08	0.004487	-0.04589	0	0	0	0
41.1	0.004181	-0.0153	0	0	0.004181	41.1
41.12	0.005404	0.061182	0	0	0	0
41.14	0.006322	0.045886	0	0	0	0
41.16	0.007444	0.056084	0.007444	41.16	0	0
41.18	0.006526	-0.04589	0	0	0	0
41.2	0.005812	-0.03569	0	0	0	0
41.22	0.004691	-0.05608	0	0	0	0
41.24	0.004385	-0.0153	0	0	0.004385	41.24
41.26	0.005914	0.076478	0	0	0	0
41.28	0.007342	0.071379	0	0	0	0
41.3	0.008464	0.056084	0.008464	41.3	0	0
41.32	0.00826	-0.0102	0	0	0.00826	41.32
41.34	0.008362	0.005098	0.008362	41.34	0	0
41.36	0.008056	-0.0153	0	0	0	0
41.38	0.008056	0	0	0	0	0
41.4	0.00571	-0.11727	0	0	0	0
41.42	0.002447	-0.16315	0	0	0	0
41.44	-0.00061	-0.15296	0	0	0	0
41.46	-0.00408	-0.17335	0	0	0	0
41.48	-0.00581	-0.08667	0	0	0	0
41.5	-0.00765	-0.09177	0	0	0	0
41.52	-0.00938	-0.08667	0	0	0	0
41.54	-0.0102	-0.04079	0	0	-0.0102	41.54
41.56	-0.00897	0.061182	0	0	0	0
41.58	-0.00826	0.035689	0	0	0	0
41.6	-0.00653	0.086675	0	0	0	0
41.62	-0.00377	0.13766	0	0	0	0
41.64	-0.00112	0.132561	0	0	0	0
41.66	0.000204	0.066281	0	0	0	0
41.68	0.001224	0.050985	0	0	0	0
41.7	0.002243	0.050985	0	0	0	0
41.72	0.003875	0.081576	0	0	0	0
41.74	0.005812	0.096871	0	0	0	0
41.76	0.00775	0.096872	0	0	0	0
41.78	0.009177	0.071379	0.009177	41.78	0	0
41.8	0.00826	-0.04589	0	0	0	0
41.82	0.007342	-0.04589	0	0	0	0
41.84	0.005812	-0.07648	0	0	0	0
41.86	0.004487	-0.06628	0	0	0	0
41.88	0.001632	-0.14276	0	0	0	0
41.9	-0.0002	-0.09177	0	0	0	0
41.92	-0.00133	-0.05608	0	0	0	0
41.94	-0.00275	-0.07138	0	0	0	0
41.96	-0.00377	-0.05098	0	0	0	0
41.98	-0.0051	-0.06628	0	0	0	0
42	-0.00561	-0.02549	0	0	-0.00561	42
42.02	-0.00479	0.040788	0	0	0	0
42.04	-0.00398	0.040788	0	0	0	0
42.06	0.000204	0.209038	0	0	0	0
42.08	0.004283	0.20394	0	0	0	0
42.1	0.008158	0.193743	0	0	0	0
42.12	0.008667	0.025493	0	0	0	0
42.14	0.009789	0.056084	0	0	0	0

42.16	0.009993	0.010197	0	0	0	0
42.18	0.010401	0.020394	0	0	0	0
42.2	0.010401	0	0	0	0	0
42.22	0.009789	-0.03059	0	0	0	0
42.24	0.009177	-0.03059	0	0	0	0
42.26	0.008667	-0.02549	0	0	0.008667	42.26
42.28	0.009075	0.020394	0	0	0	0
42.3	0.009585	0.025493	0	0	0	0
42.32	0.010503	0.045887	0	0	0	0
42.34	0.011625	0.056083	0	0	0	0
42.36	0.012644	0.050985	0	0	0	0
42.38	0.013868	0.061182	0	0	0	0
42.4	0.014888	0.050985	0	0	0	0
42.42	0.015397	0.025492	0.015397	42.42	0	0
42.44	0.013766	-0.08158	0	0	0	0
42.46	0.012338	-0.07138	0	0	0	0
42.48	0.010911	-0.07138	0	0	0	0
42.5	0.009687	-0.06118	0	0	0	0
42.52	0.00826	-0.07138	0	0	0	0
42.54	0.007036	-0.06118	0	0	0	0
42.56	0.005404	-0.08158	0	0	0	0
42.58	0.004079	-0.06628	0	0	0	0
42.6	0.002345	-0.08667	0	0	0	0
42.62	0.002141	-0.0102	0	0	0.002141	42.62
42.64	0.002855	0.03569	0	0	0	0
42.66	0.003467	0.030591	0.003467	42.66	0	0
42.68	0.002855	-0.03059	0	0	0	0
42.7	0.001428	-0.07138	0	0	0	0
42.72	0.000612	-0.04079	0	0	0	0
42.74	-0.00051	-0.05608	0	0	0	0
42.76	-0.00153	-0.05098	0	0	0	0
42.78	-0.00163	-0.0051	0	0	-0.00163	42.78
42.8	-0.00112	0.025493	0	0	0	0
42.82	-0.00082	0.015296	0	0	0	0
42.84	0	0.040788	0	0	0	0
42.86	0.000612	0.030591	0	0	0	0
42.88	0.001326	0.035689	0.001326	42.88	0	0
42.9	0.000102	-0.06118	0	0	0	0
42.92	-0.00102	-0.05608	0	0	0	0
42.94	-0.00255	-0.07648	0	0	0	0
42.96	-0.00347	-0.04589	0	0	0	0
42.98	-0.00347	0	0	0	0	0
43	-0.00398	-0.02549	0	0	0	0
43.02	-0.0054	-0.07138	0	0	0	0
43.04	-0.00673	-0.06628	0	0	0	0
43.06	-0.00836	-0.08158	0	0	0	0
43.08	-0.00969	-0.06628	0	0	0	0
43.1	-0.01101	-0.06628	0	0	0	0
43.12	-0.01142	-0.02039	0	0	-0.01142	43.12
43.14	-0.01111	0.015295	0	0	0	0
43.16	-0.01101	0.005098	0	0	0	0
43.18	-0.01081	0.010197	-0.01081	43.18	0	0
43.2	-0.01224	-0.07138	0	0	0	0
43.22	-0.01356	-0.06628	0	0	0	0
43.24	-0.01509	-0.07648	0	0	0	0
43.26	-0.01683	-0.08667	0	0	0	0
43.28	-0.01723	-0.02039	0	0	-0.01723	43.28
43.3	-0.01611	0.056083	0	0	0	0
43.32	-0.01356	0.127462	0	0	0	0
43.34	-0.00989	0.183546	0	0	0	0
43.36	-0.00653	0.16825	0	0	0	0
43.38	-0.00265	0.193743	0	0	0	0
43.4	0	0.132561	0	0	0	0
43.42	0.002549	0.127462	0	0	0	0
43.44	0.003467	0.045887	0.003467	43.44	0	0
43.46	0.002957	-0.02549	0	0	0	0
43.48	0.002651	-0.0153	0	0	0	0
43.5	0.001835	-0.04079	0	0	0	0
43.52	0.001835	0	0	0	0	0
43.54	0.003161	0.06628	0	0	0	0
43.56	0.003875	0.035689	0	0	0	0
43.58	0.004895	0.050985	0	0	0	0
43.6	0.005914	0.050985	0	0	0	0
43.62	0.006832	0.045886	0.006832	43.62	0	0
43.64	0.00622	-0.03059	0	0	0	0
43.66	0.0052	-0.05099	0	0	0	0
43.68	0.002753	-0.12236	0	0	0	0
43.7	0.00051	-0.11217	0	0	0	0
43.72	-0.00204	-0.12746	0	0	0	0
43.74	-0.00337	-0.06628	0	0	0	0
43.76	-0.00489	-0.07648	0	0	0	0
43.78	-0.00612	-0.06118	0	0	0	0
43.8	-0.00734	-0.06118	0	0	0	0
43.82	-0.00867	-0.06628	0	0	0	0
43.84	-0.00928	-0.03059	0	0	-0.00928	43.84
43.86	-0.00846	0.040788	0	0	0	0
43.88	-0.00806	0.020394	0	0	0	0
43.9	-0.00724	0.040788	-0.00724	43.9	0	0
43.92	-0.00826	-0.05099	0	0	0	0
43.94	-0.00969	-0.07138	0	0	0	0
43.96	-0.01142	-0.08667	0	0	0	0
43.98	-0.01326	-0.09177	0	0	0	0
44	-0.01489	-0.08158	0	0	-0.01489	44

44.02	-0.01366	0.061182	0	0	0	0
44.04	-0.01244	0.061182	0	0	0	0
44.06	-0.01091	0.076477	0	0	0	0
44.08	-0.00918	0.086674	0	0	0	0
44.1	-0.00744	0.086674	0	0	0	0
44.12	-0.00602	0.071379	-0.00602	44.12	0	0
44.14	-0.00693	-0.04589	0	0	0	0
44.16	-0.00795	-0.05098	0	0	0	0
44.18	-0.00857	-0.03059	0	0	-0.00857	44.18
44.2	-0.00683	0.086674	0	0	0	0
44.22	-0.00551	0.06628	0	0	0	0
44.24	-0.00357	0.096871	0	0	0	0
44.26	-0.00204	0.076478	-0.00204	44.26	0	0
44.28	-0.00387	-0.09177	0	0	0	0
44.3	-0.00561	-0.08667	0	0	0	0
44.32	-0.00816	-0.12746	0	0	0	0
44.34	-0.0106	-0.12236	0	0	0	0
44.36	-0.01224	-0.08158	0	0	0	0
44.38	-0.01326	-0.05098	0	0	-0.01326	44.38
44.4	-0.01213	0.056084	0	0	0	0
44.42	-0.0104	0.086674	0	0	0	0
44.44	-0.00632	0.20394	0	0	0	0
44.46	-0.00255	0.188644	0	0	0	0
44.48	0.001733	0.214137	0	0	0	0
44.5	0.005098	0.16825	0	0	0	0
44.52	0.006322	0.061182	0.006322	44.52	0	0
44.54	0.005302	-0.05099	0	0	0	0
44.56	0.004283	-0.05098	0	0	0	0
44.58	0.002447	-0.09177	0	0	0	0
44.6	0.000306	-0.10707	0	0	0	0
44.62	-0.00031	-0.03059	0	0	-0.00031	44.62
44.64	0.000204	0.025492	0.000204	44.64	0	0
44.66	-0.0002	-0.02039	0	0	0	0
44.68	-0.00184	-0.08158	0	0	0	0
44.7	-0.00337	-0.07648	0	0	0	0
44.72	-0.00459	-0.06118	0	0	-0.00459	44.72
44.74	-0.00449	0.005098	-0.00449	44.74	0	0
44.76	-0.00459	-0.0051	0	0	-0.00459	44.76
44.78	-0.00428	0.015296	0	0	0	0
44.8	-0.00408	0.010197	0	0	0	0
44.82	-0.00398	0.005098	-0.00398	44.82	0	0
44.84	-0.0054	-0.07138	0	0	0	0
44.86	-0.00673	-0.06628	0	0	0	0
44.88	-0.00836	-0.08158	0	0	0	0
44.9	-0.00989	-0.07648	0	0	-0.00989	44.9
44.92	-0.00908	0.040788	0	0	0	0
44.94	-0.00836	0.035689	0	0	0	0
44.96	-0.00724	0.056083	0	0	0	0
44.98	-0.00693	0.015295	-0.00693	44.98	0	0
45	-0.00887	-0.09687	0	0	0	0
45.02	-0.0103	-0.07138	0	0	0	0
45.04	-0.01234	-0.10197	0	0	0	0
45.06	-0.01366	-0.06628	0	0	0	0
45.08	-0.01489	-0.06118	0	0	0	0
45.1	-0.01601	-0.05608	0	0	0	0
45.12	-0.01703	-0.05099	0	0	0	0
45.14	-0.01774	-0.03569	0	0	0	0
45.16	-0.01846	-0.03569	0	0	-0.01846	45.16
45.18	-0.01795	0.025492	0	0	0	0
45.2	-0.01733	0.030591	0	0	0	0
45.22	-0.01672	0.030591	0	0	0	0
45.24	-0.0155	0.061182	0	0	0	0
45.26	-0.01275	0.137659	0	0	0	0
45.28	-0.0102	0.127462	0	0	0	0
45.3	-0.00724	0.147857	0	0	0	0
45.32	-0.00438	0.142758	0	0	0	0
45.34	-0.00265	0.086675	0	0	0	0
45.36	-0.00133	0.06628	0	0	0	0
45.38	0.000204	0.076477	0	0	0	0
45.4	0.00153	0.06628	0	0	0	0
45.42	0.003161	0.081576	0	0	0	0
45.44	0.003263	0.005099	0.003263	45.44	0	0
45.46	0.002447	-0.04079	0	0	0	0
45.48	0.002141	-0.0153	0	0	0	0
45.5	0.000102	-0.10197	0	0	0	0
45.52	-0.00306	-0.15805	0	0	0	0
45.54	-0.005	-0.09687	0	0	0	0
45.56	-0.00693	-0.09687	0	0	0	0
45.58	-0.00734	-0.02039	0	0	-0.00734	45.58
45.6	-0.00612	0.061182	0	0	0	0
45.62	-0.00479	0.066281	0	0	0	0
45.64	-0.00418	0.030591	0	0	0	0
45.66	-0.00367	0.025493	0	0	0	0
45.68	-0.00316	0.025492	0	0	0	0
45.7	-0.00255	0.030591	0	0	0	0
45.72	-0.00061	0.096871	0	0	0	0
45.74	0.00102	0.081576	0	0	0	0
45.76	0.002957	0.096872	0	0	0	0
45.78	0.004589	0.081576	0	0	0	0
45.8	0.006526	0.096872	0	0	0	0
45.82	0.00724	0.035689	0.00724	45.82	0	0
45.84	0.00673	-0.02549	0	0	0	0
45.86	0.006526	-0.0102	0	0	0	0

45.88	0.006016	-0.02549	0	0	0.006016	45.88
45.9	0.00775	0.086674	0	0	0	0
45.92	0.009279	0.076478	0	0	0	0
45.94	0.010095	0.040788	0	0	0	0
45.96	0.010911	0.040788	0	0	0	0
45.98	0.011421	0.025493	0.011421	45.98	0	0
46	0.009687	-0.08667	0	0	0	0
46.02	0.00775	-0.09687	0	0	0	0
46.04	0.00571	-0.10197	0	0	0	0
46.06	0.003263	-0.12236	0	0	0	0
46.08	0.001835	-0.07138	0	0	0	0
46.1	0.001224	-0.03059	0	0	0	0
46.12	0.000918	-0.0153	0	0	0.000918	46.12
46.14	0.001224	0.015296	0.001224	46.14	0	0
46.16	0.00051	-0.03569	0	0	0	0
46.18	-0.00041	-0.04589	0	0	0	0
46.2	-0.00133	-0.04589	0	0	0	0
46.22	-0.00235	-0.05099	0	0	0	0
46.24	-0.00347	-0.05608	0	0	0	0
46.26	-0.00469	-0.06118	0	0	0	0
46.28	-0.00632	-0.08158	0	0	0	0
46.3	-0.00653	-0.0102	0	0	-0.00653	46.3
46.32	-0.0052	0.066281	0	0	0	0
46.34	-0.00367	0.076477	0	0	0	0
46.36	-0.00153	0.107068	0	0	0	0
46.38	0.000408	0.096871	0	0	0	0
46.4	0.001326	0.045886	0.001326	46.4	0	0
46.42	0.001122	-0.0102	0	0	0	0
46.44	0.000816	-0.0153	0	0	0	0
46.46	0.000306	-0.02549	0	0	0.000306	46.46
46.48	0.000408	0.005098	0	0	0	0
46.5	0.00051	0.005098	0	0	0	0
46.52	0.000714	0.010197	0	0	0	0
46.54	0.000918	0.010197	0	0	0	0
46.56	0.000918	0	0	0	0	0
46.58	0.000306	-0.03059	0	0	0	0
46.6	-0.0001	-0.02039	0	0	0	0
46.62	-0.00071	-0.03059	0	0	-0.00071	46.62
46.64	0.00051	0.061182	0	0	0	0
46.66	0.002345	0.091773	0	0	0	0
46.68	0.004181	0.091773	0	0	0	0
46.7	0.00571	0.076477	0	0	0	0
46.72	0.006016	0.015296	0	0	0	0
46.74	0.006526	0.025492	0	0	0	0
46.76	0.006832	0.015295	0	0	0	0
46.78	0.006832	0	0	0	0	0
46.8	0.005812	-0.05099	0	0	0	0
46.82	0.004997	-0.04079	0	0	0	0
46.84	0.003977	-0.05098	0	0	0	0
46.86	0.002957	-0.05099	0	0	0.002957	46.86
46.88	0.003263	0.015295	0	0	0	0
46.9	0.003977	0.03569	0	0	0	0
46.92	0.004589	0.030591	0	0	0	0
46.94	0.005506	0.045887	0	0	0	0
46.96	0.006322	0.040788	0	0	0	0
46.98	0.00724	0.045887	0	0	0	0
47	0.007852	0.030591	0	0	0	0
47.02	0.008158	0.015296	0	0	0	0
47.04	0.008769	0.030591	0	0	0	0
47.06	0.010095	0.06628	0	0	0	0
47.08	0.010503	0.020394	0.010503	47.08	0	0
47.1	0.009483	-0.05099	0	0	0	0
47.12	0.008667	-0.04079	0	0	0	0
47.14	0.008158	-0.02549	0	0	0.008158	47.14
47.16	0.009585	0.071379	0	0	0	0
47.18	0.010605	0.050985	0	0	0	0
47.2	0.012236	0.081576	0	0	0	0
47.22	0.01346	0.061182	0.01346	47.22	0	0
47.24	0.012236	-0.06118	0	0	0	0
47.26	0.011217	-0.05099	0	0	0	0
47.28	0.009891	-0.06628	0	0	0	0
47.3	0.009585	-0.0153	0	0	0	0
47.32	0.009483	-0.0051	0	0	0	0
47.34	0.009381	-0.0051	0	0	0	0
47.36	0.009177	-0.0102	0	0	0	0
47.38	0.009075	-0.0051	0	0	0	0
47.4	0.009075	0	0	0	0	0
47.42	0.009687	0.030591	0	0	0	0
47.44	0.010095	0.020394	0	0	0	0
47.46	0.010809	0.03569	0.010809	47.46	0	0
47.48	0.010197	-0.03059	0	0	0	0
47.5	0.009483	-0.03569	0	0	0	0
47.52	0.008565	-0.04589	0	0	0	0
47.54	0.007852	-0.03569	0	0	0	0
47.56	0.007342	-0.02549	0	0	0	0
47.58	0.006934	-0.02039	0	0	0	0
47.6	0.006526	-0.02039	0	0	0	0
47.62	0.006526	0	0	0	0	0
47.64	0.006832	0.015295	0.006832	47.64	0	0
47.66	0.00622	-0.03059	0	0	0	0
47.68	0.003977	-0.11217	0	0	0	0
47.7	0.002039	-0.09687	0	0	0	0
47.72	-0.00041	-0.12236	0	0	0	0

47.74	-0.00184	-0.07138	0	0	0	0
47.76	-0.00255	-0.03569	0	0	0	0
47.78	-0.00357	-0.05098	0	0	0	0
47.8	-0.00377	-0.0102	0	0	-0.00377	47.8
47.82	-0.00286	0.045886	0	0	0	0
47.84	-0.00204	0.040788	0	0	0	0
47.86	-0.00082	0.061182	0	0	0	0
47.88	0.000918	0.086674	0	0	0	0
47.9	0.003059	0.107068	0	0	0	0
47.92	0.00673	0.183546	0	0	0	0
47.94	0.010095	0.16825	0	0	0	0
47.96	0.013766	0.183546	0	0	0	0
47.98	0.015092	0.066281	0	0	0	0
48	0.016519	0.071379	0	0	0	0
48.02	0.017641	0.056083	0	0	0	0
48.04	0.018457	0.040788	0.018457	48.04	0	0
48.06	0.016111	-0.11727	0	0	0	0
48.08	0.013868	-0.11217	0	0	0	0
48.1	0.011115	-0.13766	0	0	0	0
48.12	0.008973	-0.10707	0	0	0	0
48.14	0.008565	-0.02039	0	0	0	0
48.16	0.008056	-0.02549	0	0	0	0
48.18	0.00775	-0.0153	0	0	0	0
48.2	0.007546	-0.0102	0	0	0	0
48.22	0.006322	-0.06118	0	0	0	0
48.24	0.004487	-0.09177	0	0	0	0
48.26	0.003059	-0.07138	0	0	0	0
48.28	0.002957	-0.0051	0	0	0	0
48.3	0.002957	0	0	0	0	0
48.32	0.002549	-0.02039	0	0	0	0
48.34	0.001937	-0.03059	0	0	0	0
48.36	0.001326	-0.03059	0	0	0.001326	48.36
48.38	0.001632	0.015296	0	0	0	0
48.4	0.002039	0.020394	0	0	0	0
48.42	0.002549	0.025492	0.002549	48.42	0	0
48.44	0.00153	-0.05099	0	0	0	0
48.46	-0.0002	-0.08667	0	0	0	0
48.48	-0.00184	-0.08158	0	0	0	0
48.5	-0.00377	-0.09687	0	0	0	0
48.52	-0.00479	-0.05098	0	0	0	0
48.54	-0.00591	-0.05608	0	0	0	0
48.56	-0.00693	-0.05098	0	0	0	0
48.58	-0.00785	-0.04589	0	0	0	0
48.6	-0.00877	-0.04589	0	0	0	0
48.62	-0.00918	-0.02039	0	0	-0.00918	48.62
48.64	-0.00908	0.005099	0	0	0	0
48.66	-0.00877	0.015295	0	0	0	0
48.68	-0.00836	0.020394	0	0	0	0
48.7	-0.00795	0.020394	-0.00795	48.7	0	0
48.72	-0.00826	-0.0153	0	0	0	0
48.74	-0.00867	-0.02039	0	0	0	0
48.76	-0.00918	-0.02549	0	0	0	0
48.78	-0.00928	-0.0051	0	0	-0.00928	48.78
48.8	-0.00714	0.107069	0	0	0	0
48.82	-0.0053	0.091773	0	0	0	0
48.84	-0.00347	0.091773	0	0	0	0
48.86	-0.00194	0.076478	0	0	0	0
48.88	-0.00041	0.076477	0	0	0	0
48.9	-0.00031	0.005098	-0.00031	48.9	0	0
48.92	-0.00071	-0.02039	0	0	-0.00071	48.92
48.94	-0.00031	0.020394	0	0	0	0
48.96	0.000714	0.050985	0	0	0	0
48.98	0.00153	0.040788	0.00153	48.98	0	0
49	0.000816	-0.03569	0	0	0	0
49.02	-0.0001	-0.04589	0	0	0	0
49.04	-0.00102	-0.04589	0	0	0	0
49.06	-0.00224	-0.06118	0	0	0	0
49.08	-0.00367	-0.07138	0	0	0	0
49.1	-0.005	-0.06628	0	0	0	0
49.12	-0.00632	-0.06628	0	0	-0.00632	49.12
49.14	-0.00591	0.020394	0	0	0	0
49.16	-0.00561	0.015296	0	0	0	0
49.18	-0.005	0.030591	0	0	0	0
49.2	-0.00449	0.025492	0	0	0	0
49.22	-0.00265	0.091773	0	0	0	0
49.24	0.000306	0.147856	0	0	0	0
49.26	0.002549	0.112167	0	0	0	0
49.28	0.003569	0.050985	0	0	0	0
49.3	0.004691	0.056083	0	0	0	0
49.32	0.00571	0.050985	0	0	0	0
49.34	0.007342	0.081576	0	0	0	0
49.36	0.008565	0.061182	0	0	0	0
49.38	0.010401	0.091773	0	0	0	0
49.4	0.010605	0.010197	0.010605	49.4	0	0
49.42	0.009687	-0.04589	0	0	0	0
49.44	0.008871	-0.04079	0	0	0	0
49.46	0.008464	-0.02039	0	0	0.008464	49.46
49.48	0.009585	0.056083	0	0	0	0
49.5	0.010809	0.061182	0.010809	49.5	0	0
49.52	0.009381	-0.07138	0	0	0	0
49.54	0.006526	-0.14276	0	0	0	0
49.56	0.003977	-0.12746	0	0	0	0
49.58	0.000816	-0.15805	0	0	0	0

49.6	-0.00224	-0.15295	0	0	0	0
49.62	-0.00296	-0.03569	0	0	-0.00296	49.62
49.64	-0.00214	0.040788	0	0	0	0
49.66	-0.00153	0.030591	0	0	0	0
49.68	-0.00061	0.045886	-0.00061	49.68	0	0
49.7	-0.00245	-0.09177	0	0	0	0
49.72	-0.00387	-0.07138	0	0	0	0
49.74	-0.00591	-0.10197	0	0	0	0
49.76	-0.00663	-0.03569	0	0	-0.00663	49.76
49.78	-0.00479	0.091773	0	0	0	0
49.8	-0.00387	0.045886	0	0	0	0
49.82	-0.00326	0.030591	0	0	0	0
49.84	-0.00265	0.030591	0	0	0	0
49.86	-0.00224	0.020394	-0.00224	49.86	0	0
49.88	-0.00316	-0.04589	0	0	0	0
49.9	-0.00408	-0.04589	0	0	0	0
49.92	-0.005	-0.04589	0	0	0	0
49.94	-0.00622	-0.06118	0	0	0	0
49.96	-0.00653	-0.0153	0	0	-0.00653	49.96
49.98	-0.0054	0.056083	0	0	0	0
50	-0.00489	0.025492	0	0	0	0
50.02	-0.00387	0.050985	0	0	0	0
50.04	-0.00357	0.015295	-0.00357	50.04	0	0
50.06	-0.00469	-0.05608	0	0	-0.00469	50.06
50.08	-0.00449	0.010197	0	0	0	0
50.1	-0.00347	0.050985	0	0	0	0
50.12	-0.00275	0.03569	0	0	0	0
50.14	-0.00153	0.061182	0	0	0	0
50.16	-0.00051	0.050985	0	0	0	0
50.18	0.000612	0.056083	0	0	0	0
50.2	0.001326	0.035689	0.001326	50.2	0	0
50.22	0.00102	-0.0153	0	0	0	0
50.24	0.000918	-0.0051	0	0	0	0
50.26	0.00051	-0.02039	0	0	0	0
50.28	-0.00031	-0.04079	0	0	0	0
50.3	-0.00112	-0.04079	0	0	0	0
50.32	-0.00153	-0.02039	0	0	0	0
50.34	-0.00184	-0.0153	0	0	0	0
50.36	-0.00214	-0.0153	0	0	0	0
50.38	-0.00245	-0.0153	0	0	0	0
50.4	-0.00275	-0.0153	0	0	0	0
50.42	-0.00367	-0.04589	0	0	0	0
50.44	-0.00469	-0.05098	0	0	0	0
50.46	-0.00571	-0.05098	0	0	0	0
50.48	-0.00734	-0.08158	0	0	0	0
50.5	-0.00857	-0.06118	0	0	0	0
50.52	-0.0103	-0.08667	0	0	-0.0103	50.52
50.54	-0.0102	0.005099	0	0	0	0
50.56	-0.00908	0.056084	0	0	0	0
50.58	-0.00479	0.214137	-0.00479	50.58	0	0
50.6	-0.00704	-0.11217	0	0	0	0
50.62	-0.01326	-0.31101	0	0	0	0
50.64	-0.01825	-0.24983	0	0	0	0
50.66	-0.02376	-0.27532	0	0	-0.02376	50.66
50.68	-0.02243	0.06628	-0.02243	50.68	0	0
50.7	-0.02294	-0.02549	0	0	-0.02294	50.7
50.72	-0.01999	0.147856	0	0	0	0
50.74	-0.01336	0.331402	0	0	0	0
50.76	-0.00653	0.3416	0	0	0	0
50.78	0.000204	0.336501	0	0	0	0
50.8	0.008362	0.40788	0.008362	50.8	0	0
50.82	0.008158	-0.0102	0	0	0	0
50.84	0.003875	-0.21414	0	0	0.003875	50.84
50.86	0.006016	0.107069	0.006016	50.86	0	0
50.88	0.000612	-0.27022	0	0	0	0
50.9	-0.0051	-0.28552	0	0	0	0
50.92	-0.01081	-0.28552	0	0	0	0
50.94	-0.01632	-0.27532	0	0	0	0
50.96	-0.01642	-0.0051	0	0	-0.01642	50.96
50.98	-0.01438	0.10197	0	0	0	0
51	-0.01224	0.107068	0	0	0	0
51.02	-0.00938	0.142758	0	0	0	0
51.04	-0.00653	0.142758	-0.00653	51.04	0	0
51.06	-0.00857	-0.10197	0	0	-0.00857	51.06
51.08	-0.00806	0.025492	0	0	0	0
51.1	0.000102	0.40788	0	0	0	0
51.12	0.0052	0.254925	0	0	0	0
51.14	0.014276	0.453767	0.014276	51.14	0	0
51.16	0.01346	-0.04079	0	0	0	0
51.18	0.0052	-0.41298	0	0	0	0
51.2	-0.00112	-0.31611	0	0	0	0
51.22	-0.00969	-0.42827	0	0	-0.00969	51.22
51.24	-0.005	0.234531	0	0	0	0
51.26	-0.00082	0.209038	0	0	0	0
51.28	0.005098	0.295713	0	0	0	0
51.3	0.010299	0.260024	0	0	0	0
51.32	0.011421	0.056083	0	0	0	0
51.34	0.013868	0.122364	0.013868	51.34	0	0
51.36	0.011115	-0.13766	0	0	0	0
51.38	0.006118	-0.24983	0	0	0	0
51.4	0.002243	-0.19374	0	0	0.002243	51.4
51.42	0.005098	0.142758	0	0	0	0
51.44	0.007036	0.096872	0	0	0	0

51.46	0.007138	0.005098	0	0	0	0
51.48	0.008362	0.061182	0	0	0	0
51.5	0.008769	0.020394	0	0	0	0
51.52	0.009993	0.061182	0	0	0	0
51.54	0.013868	0.193743	0.013868	51.54	0	0
51.56	0.013358	-0.02549	0	0	0	0
51.58	0.008871	-0.22433	0	0	0	0
51.6	0.004895	-0.19884	0	0	0	0
51.62	0.002243	-0.13256	0	0	0.002243	51.62
51.64	0.003365	0.056083	0	0	0	0
51.66	0.003365	0	0	0	0	0
51.68	0.004895	0.076478	0.004895	51.68	0	0
51.7	0.004793	-0.0051	0	0	0	0
51.72	0.004181	-0.03059	0	0	0	0
51.74	0.003671	-0.02549	0	0	0	0
51.76	0.003059	-0.03059	0	0	0.003059	51.76
51.78	0.004487	0.071379	0	0	0	0
51.8	0.00571	0.061182	0	0	0	0
51.82	0.007444	0.086675	0	0	0	0
51.84	0.008158	0.035689	0.008158	51.84	0	0
51.86	0.007954	-0.0102	0	0	0	0
51.88	0.007852	-0.0051	0	0	0.007852	51.88
51.9	0.00826	0.020394	0	0	0	0
51.92	0.009789	0.076477	0	0	0	0
51.94	0.011013	0.061182	0	0	0	0
51.96	0.012236	0.061182	0.012236	51.96	0	0
51.98	0.011115	-0.05608	0	0	0	0
52	0.009993	-0.05608	0	0	0	0
52.02	0.008362	-0.08158	0	0	0	0
52.04	0.005506	-0.14276	0	0	0	0
52.06	0.002039	-0.17335	0	0	0	0
52.08	-0.00143	-0.17335	0	0	0	0
52.1	-0.00387	-0.12236	0	0	-0.00387	52.1
52.12	-0.00143	0.122364	0	0	0	0
52.14	0.000612	0.10197	0	0	0	0
52.16	0.001632	0.050985	0.001632	52.16	0	0
52.18	-0.00112	-0.13766	0	0	0	0
52.2	-0.00306	-0.09687	0	0	0	0
52.22	-0.0053	-0.11217	0	0	-0.0053	52.22
52.24	-0.00459	0.035689	-0.00459	52.24	0	0
52.26	-0.00571	-0.05608	0	0	-0.00571	52.26
52.28	-0.00561	0.005098	0	0	0	0
52.3	-0.00469	0.045887	0	0	0	0
52.32	-0.00428	0.020394	0	0	0	0
52.34	-0.00337	0.045886	0	0	0	0
52.36	-0.00326	0.005098	0	0	0	0
52.38	-0.00316	0.005099	0	0	0	0
52.4	-0.00255	0.030591	0	0	0	0
52.42	0.002549	0.254925	0.002549	52.42	0	0
52.44	0.000918	-0.08158	0	0	0	0
52.46	-0.00214	-0.15295	0	0	0	0
52.48	-0.00337	-0.06118	0	0	0	0
52.5	-0.00408	-0.03569	0	0	0	0
52.52	-0.00418	-0.0051	0	0	-0.00418	52.52
52.54	-0.00306	0.056083	0	0	0	0
52.56	-0.00245	0.030591	0	0	0	0
52.58	-0.00143	0.050985	0	0	0	0
52.6	-0.00061	0.040788	0	0	0	0
52.62	0.000408	0.050985	0	0	0	0
52.64	0.001224	0.040788	0	0	0	0
52.66	0.002141	0.045886	0	0	0	0
52.68	0.003161	0.050985	0.003161	52.68	0	0
52.7	0.002753	-0.02039	0	0	0	0
52.72	0.001122	-0.08158	0	0	0	0
52.74	0.000918	-0.0102	0	0	0.000918	52.74
52.76	0.001122	0.010197	0	0	0	0
52.78	0.001428	0.015295	0	0	0	0
52.8	0.001835	0.020394	0	0	0	0
52.82	0.002345	0.025492	0	0	0	0
52.84	0.003059	0.035689	0	0	0	0
52.86	0.004589	0.076477	0	0	0	0
52.88	0.005812	0.061182	0	0	0	0
52.9	0.007546	0.086675	0	0	0	0
52.92	0.007648	0.005098	0.007648	52.92	0	0
52.94	0.006424	-0.06118	0	0	0	0
52.96	0.005812	-0.03059	0	0	0	0
52.98	0.004487	-0.06628	0	0	0	0
53	0.003365	-0.05608	0	0	0	0
53.02	0.002141	-0.06118	0	0	0	0
53.04	0.002141	0	0	0	0	0
53.06	0.002651	0.025492	0.002651	53.06	0	0
53.08	0.002447	-0.0102	0	0	0	0
53.1	0.00153	-0.04589	0	0	0	0
53.12	-0.00143	-0.14786	0	0	0	0
53.14	-0.00551	-0.20394	0	0	0	0
53.16	-0.00928	-0.18864	0	0	0	0
53.18	-0.01377	-0.22433	0	0	-0.01377	53.18
53.2	-0.01224	0.076477	0	0	0	0
53.22	-0.00795	0.214137	0	0	0	0

53.24	-0.00469	0.163152	0	0	0	0
53.26	0.000816	0.275319	0	0	0	0
53.28	0.001326	0.025492	0.001326	53.28	0	0
53.3	-0.00133	-0.13256	0	0	0	0
53.32	-0.00275	-0.07138	0	0	0	0
53.34	-0.00591	-0.15805	0	0	-0.00591	53.34
53.36	-0.005	0.045887	-0.005	53.36	0	0
53.38	-0.0053	-0.0153	0	0	-0.0053	53.38
53.4	-0.00367	0.081576	-0.00367	53.4	0	0
53.42	-0.00438	-0.03569	0	0	-0.00438	53.42
53.44	-0.00347	0.045887	0	0	0	0
53.46	-0.00245	0.050985	0	0	0	0

B.2 Intrinsic Mode Function

IMF 1	IMF 2	IMF 3	IMF 4	IMF 5	IMF 6	IMF 7	IMF 8	IMF 9	IMF 10	IMF 11	IMF 12	IMF 13	IMF 14
0	0	0	0	0	0	0	0	0	0	0	0	0	0.000306
-0.00109	-2.70E-05	0.001602	0.000562	-0.00028	0.002076	-0.00085	-0.00027	-0.00013	3.52E-05	8.67E-06	6.82E-06	-6.17E-06	0.000308
0.002019	0.000153	0.002109	0.001079	-0.0004	0.004037	-0.00166	-0.00053	-0.00026	6.97E-05	1.72E-05	1.36E-05	-1.23E-05	0.00031
-0.0028	0.000131	0.001745	0.001541	-0.00038	0.005883	-0.00244	-0.00079	-0.00039	0.000103	2.57E-05	2.03E-05	-1.85E-05	0.000311
-0.0025	-0.00038	0.000734	0.001937	-0.00022	0.007618	-0.00318	-0.00103	-0.00051	0.000136	3.41E-05	2.70E-05	-2.46E-05	0.000313
0.000943	-0.00104	-0.0007	0.002255	5.46E-05	0.009241	-0.00388	-0.00127	-0.00062	0.000169	4.23E-05	3.37E-05	-3.07E-05	0.000315
0.004347	-0.00099	-0.00234	0.002486	0.000425	0.010754	-0.00455	-0.0015	-0.00074	0.0002	5.05E-05	4.03E-05	-3.68E-05	0.000317
0.000498	0.000361	-0.00396	0.002618	0.000876	0.012159	-0.00519	-0.00172	-0.00085	0.000231	5.85E-05	4.69E-05	-4.29E-05	0.000319
-0.00483	0.002127	-0.00534	0.002641	0.001392	0.013457	-0.00579	-0.00194	-0.00095	0.000261	6.65E-05	5.34E-05	-4.90E-05	0.00032
-0.002	0.003313	-0.00619	0.002543	0.001955	0.014649	-0.00635	-0.00214	-0.00106	0.000291	7.43E-05	6.00E-05	-5.50E-05	0.000322
0.004954	0.004043	-0.00628	0.002315	0.002549	0.015738	-0.00688	-0.00234	-0.00115	0.00032	8.20E-05	6.64E-05	-6.11E-05	0.000324
0.002201	0.004367	-0.00535	0.001944	0.003158	0.016723	-0.00738	-0.00253	-0.00125	0.000348	8.97E-05	7.28E-05	-6.71E-05	0.000326
-0.00476	0.003046	-0.00325	0.001422	0.003764	0.017607	-0.00785	-0.00272	-0.00134	0.000375	9.72E-05	7.92E-05	-7.31E-05	0.000328
-0.0046	-0.00058	-0.00031	0.000735	0.004351	0.018392	-0.00829	-0.0029	-0.00143	0.000402	0.000105	8.56E-05	-7.92E-05	0.000329
0.004286	-0.00495	0.00276	-0.00012	0.004902	0.019077	-0.00869	-0.00307	-0.00151	0.000428	0.000112	9.19E-05	-8.51E-05	0.000331
-0.00396	-0.00717	0.005212	-0.00117	0.005401	0.019666	-0.00906	-0.00323	-0.00159	0.000453	0.000119	9.82E-05	-9.11E-05	0.000333
-0.00291	-0.0038	0.00644	-0.00241	0.00583	0.020158	-0.00941	-0.00338	-0.00167	0.000477	0.000126	0.000104	-9.71E-05	0.000335
0.000254	0.003615	0.00642	-0.00383	0.006174	0.020556	-0.00972	-0.00353	-0.00174	0.000501	0.000133	0.000111	-0.0001	0.000337
0.002877	0.009246	0.00517	-0.00531	0.006416	0.020861	-0.01	-0.00367	-0.00182	0.000525	0.00014	0.000117	-0.00011	0.000338
-0.00256	0.007313	0.002797	-0.0067	0.006538	0.021075	-0.01026	-0.00381	-0.00188	0.000547	0.000147	0.000123	-0.00011	0.00034
0.002305	-0.00208	-0.00012	-0.00784	0.006525	0.021198	-0.01048	-0.00394	-0.00195	0.000569	0.000154	0.000129	-0.00012	0.000342
0.000891	-0.0096	-0.00291	-0.0086	0.006362	0.021232	-0.01068	-0.00406	-0.00201	0.00059	0.000161	0.000135	-0.00013	0.000344
-0.00205	-0.01143	-0.00486	-0.00884	0.006046	0.021179	-0.01085	-0.00417	-0.00206	0.000611	0.000167	0.000141	-0.00013	0.000346
0.002061	-0.0072	-0.00549	-0.00842	0.005583	0.02104	-0.01099	-0.00428	-0.00212	0.000631	0.000173	0.000147	-0.00014	0.000347
0.000979	-0.00109	-0.00514	-0.00723	0.004979	0.020816	-0.01111	-0.00438	-0.00217	0.00065	0.00018	0.000153	-0.00014	0.000349
0.00027	0.005207	-0.00424	-0.00522	0.004242	0.020509	-0.0112	-0.00448	-0.00222	0.000669	0.000186	0.000159	-0.00015	0.000351
-0.00275	0.010381	-0.00303	-0.00257	0.003376	0.02012	-0.01127	-0.00457	-0.00226	0.000687	0.000192	0.000165	-0.00016	0.000353
-0.00283	0.012442	-0.0017	0.000508	0.00239	0.01965	-0.01131	-0.00465	-0.0023	0.000704	0.000198	0.000171	-0.00016	0.000354
0.001166	0.010473	-0.00036	0.003785	0.00129	0.019101	-0.01133	-0.00473	-0.00234	0.000721	0.000204	0.000176	-0.00017	0.000356
0.003436	0.003581	0.001084	0.007039	8.31E-05	0.018475	-0.01132	-0.0048	-0.00238	0.000737	0.00021	0.000182	-0.00017	0.000358
-0.00374	-0.00585	0.00256	0.010044	-0.00123	0.017772	-0.01129	-0.00486	-0.00241	0.000753	0.000216	0.000188	-0.00018	0.00036
0.000595	-0.01172	0.003957	0.012579	-0.00263	0.016994	-0.01123	-0.00492	-0.00244	0.000767	0.000222	0.000193	-0.00018	0.000361
0.004281	-0.01049	0.005139	0.014417	-0.00412	0.016143	-0.01116	-0.00497	-0.00246	0.000782	0.000227	0.000199	-0.00019	0.000363
-0.00345	-0.00227	0.005861	0.015348	-0.00568	0.01522	-0.01106	-0.00502	-0.00249	0.000795	0.000233	0.000205	-0.0002	0.000365
-0.00474	0.005125	0.005804	0.01521	-0.00732	0.014226	-0.01094	-0.00506	-0.00251	0.000808	0.000238	0.00021	-0.0002	0.000367
-0.00169	0.009292	0.004701	0.013869	-0.009	0.013162	-0.0108	-0.0051	-0.00253	0.000821	0.000243	0.000216	-0.00021	0.000368
5.81E-05	0.009912	0.002463	0.011349	-0.01071	0.012031	-0.01064	-0.00513	-0.00254	0.000833	0.000248	0.000221	-0.00021	0.00037
0.005375	0.007315	-0.00094	0.007848	-0.01242	0.010833	-0.01046	-0.00515	-0.00255	0.000844	0.000254	0.000227	-0.00022	0.000372
0.005133	0.001734	-0.00482	0.003602	-0.01412	0.009569	-0.01026	-0.00517	-0.00256	0.000855	0.000259	0.000232	-0.00022	0.000374
0.004441	-0.00481	-0.0083	-0.00115	-0.01579	0.008242	-0.01004	-0.00518	-0.00257	0.000865	0.000263	0.000237	-0.00023	0.000375
-0.00174	-0.00923	-0.0105	-0.00619	-0.01741	0.006853	-0.0098	-0.00519	-0.00257	0.000874	0.000268	0.000243	-0.00024	0.000377
-0.00647	-0.00832	-0.01051	-0.01126	-0.01895	0.005402	-0.00954	-0.00519	-0.00257	0.000883	0.000273	0.000248	-0.00024	0.000379
0.002919	-0.00078	-0.00761	-0.01608	-0.0204	0.003892	-0.00927	-0.00519	-0.00257	0.000892	0.000278	0.000253	-0.00025	0.000381
0.007264	0.007574	-0.00243	-0.02015	-0.02173	0.002324	-0.00898	-0.00518	-0.00257	0.000899	0.000282	0.000259	-0.00025	0.000382
0.004603	0.010423	0.004165	-0.02302	-0.02294	0.000698	-0.00867	-0.00517	-0.00256	0.000907	0.000287	0.000264	-0.00026	0.000384
-0.00689	0.007019	0.011072	-0.02428	-0.02399	-0.00098	-0.00835	-0.00516	-0.00255	0.000913	0.000291	0.000269	-0.00026	0.000386
-0.00872	-0.00025	0.016168	-0.02357	-0.02485	-0.00272	-0.00801	-0.00513	-0.00254	0.00092	0.000295	0.000274	-0.00027	0.000388
-0.00311	-0.00864	0.017611	-0.02054	-0.02546	-0.0045	-0.00766	-0.00511	-0.00253	0.000925	0.0003	0.000279	-0.00028	0.000389
0.006472	-0.0138	0.013891	-0.01502	-0.02579	-0.00634	-0.00729	-0.00508	-0.00251	0.00093	0.000304	0.000284	-0.00028	0.000391
0.010175	-0.01119	0.004773	-0.00759	-0.02581	-0.00823	-0.00691	-0.00504	-0.00249	0.000935	0.000308	0.000289	-0.00029	0.000393
0.003677	0.000158	-0.00751	0.00089	-0.0255	-0.01017	-0.00651	-0.005	-0.00247	0.000939	0.000312	0.000294	-0.00029	0.000395
-0.01088	0.013293	-0.01922	0.009563	-0.02484	-0.01214	-0.0061	-0.00495	-0.00245	0.000942	0.000316	0.000299	-0.0003	0.000396
-0.01047	0.018734	-0.02667	0.017565	-0.02383	-0.01416	-0.00568	-0.00491	-0.00242	0.000945	0.000319	0.000304	-0.0003	0.000398
-0.00624	0.015433	-0.02788	0.02419	-0.02243	-0.01619	-0.00525	-0.00485	-0.00239	0.000947	0.000323	0.000309	-0.00031	0.0004
0.000151	0.006407	-0.02352	0.029234	-0.02065	-0.01825	-0.0048	-0.00479	-0.00236	0.000949	0.000327	0.000314	-0.00031	0.000401
0.007055	-0.00485	-0.01494	0.032683	-0.01846	-0.02032	-0.00435	-0.00473	-0.00233	0.00095	0.00033	0.000318	-0.00032	0.000403
0.010968	-0.01544	-0.00348	0.03454	-0.01584	-0.02239	-0.00388	-0.00467	-0.0023	0.000951	0.000333	0.000323	-0.00032	0.000405
0.010445	-0.02387	0.009448	0.034817	-0.0128	-0.02445	-0.0034	-0.0046	-0.00226	0.000952	0.000337	0.000328	-0.00033	0.000406
-0.00787	-0.02604	0.022467	0.033568	-0.00937	-0.02651	-0.00292	-0.00452	-0.00222	0.000951	0.00034	0.000333	-0.00034	0.000408
-0.00965	-0.01862	0.034109	0.030872	-0.00561	-0.02855	-0.00242	-0.00445	-0.00218	0.000951	0.000343	0.000337	-0.00034	0.00041
-0.00778	-0.00072	0.042456	0.026815	-0.00158	-0.03056	-0.00192	-0.00437	-0.00214	0.000949	0.000346	0.000342	-0.00035	0.000412
-0.00089	0.018736	0.045473	0.021479	0.002648	-0.03253	-0.00141	-0.00428	-0.00209	0.000948	0.000349	0.000346	-0.00035	0.000413
0.007624	0.028314	0.041089	0.01499	0.007008	-0.03447	-0.00089	-0.00419	-0.00204	0.000946	0.000352	0.000351	-0.00036	0.000415
-0.00694	0.020073	0.028092	0.007613	0.011435	-0.03635	-0.00036	-0.0041	-0.00199	0.000943	0.000355	0.000355	-0.00036	0.000417
0.004392	0.000649	0.009251	-0.00035	0.015863	-0.03818	0.000173	-0.004	-0.00194	0.00094	0.000358	0.00036	-0.00037	0.000418
0.005978	-0.01749	-0.01166	-0.00859	0.020226	-0.03994	0.000712	-0.00391	-0.00189	0.000936	0.00036	0.000364	-0.00037	0.00042
-0.00586	-0.02531	-0.03087	-0.01682	0.024459	-0.04163	0.001257	-0.0038	-0.00184	0.000932	0.000363	0.000369	-0.00038	0.000422
-0.0003	-0.02539	-0.04505	-0.02472	0.028495	-0.04325	0.001807	-0.0037	-0.00178	0.000928	0.000365	0.000373	-0.00038	0.000423
0.006397	-0.01547	-0.05328	-0.03199	0.032269	-0.04477	0.002361	-0.00359	-0.00172	0.000923	0.000368	0.000378	-0.00039	0.000425
-0.00612	0.003875	-0.05753	-0.03833	0.035715	-0.0462	0.00292	-0.00348	-0.00166	0.000917	0.00037	0.000382	-0.00039	0.000427
-0.00734	0.017812	-0.06035	-0.04345	0.038767	-0.04753	0.003482	-0.00336	-0.0016	0.000911	0.000372	0.000386	-0.0004	0.000428
0.004661	0.017775	-0.06443	-0.04703	0.041359	-0.04875	0.004047	-0.00325	-0.00154	0.000905	0.000374	0.00039	-0.0004	0.00043
0.007697	0.002098	-0.07154	-0.04877	0.043425	-0.04985	0.004615	-0.00313	-0.00147	0.000898	0.000377	0.000394	-0.00041	0.000432
-0.00734	-0.01278	-0.07794	-0.04839	0.044913	-0.05082	0.005185	-0.003	-0.0014	0.000891	0.000379	0.000399	-0.00041	0.000433
0.006574	-0.00271	-0.07895	-0.04568	0.045824	-0.05167	0.005757	-0.00288	-0.00133	0.000883	0.00038	0.000403	-0.00042	0.000435
-0.00552	0.007896	-0.07165	-0.04069	0.046175	-0.05237	0.00633	-0.00275	-0.00126	0.000875	0.000382	0.000407	-0.00043	0.000437
0.004409	-0.00078	-0.05521	-0.03373	0.045986	-0.05294	0.006903	-0.00262	-0.00119	0.000866	0.000384	0.000411	-0.00043	0.000438
0.002963	-0.00413	-0.03595	-0.02519	0.045281	-0.05336	0.007477	-0.00248	-0.00112	0.000857	0.000386	0.000415	-0.00044	0.00044
-0.00177	0.001674	-0.01994	-0.01546	0.044083	-0.05365	0.00805	-0.00235	-0.00104	0.000848	0.000387	0.000419	-0.00044	0.000442
-0.00286	0.002262	-0.00599	-0.00493	0.042418	-0.0538	0.008622	-0.00221	-0.00097	0.000838	0.000389	0.000423	-0.00045	0.000443
0.003462	-0.00218	0.009251	0.006016	0.04031	-0.05382	0.009193	-0.00207	-0.00089	0.000828	0.00039	0.000427	-0.00045	0.000445
-0.00279	0.000868	0.026673	0.016991	0.037784	-0.05371	0.009762	-0.00193	-0.00081	0.000817	0.000392	0.000431	-0.00046	0.000447
-0.00679	0.003685	0.045752	0.027606	0.034866	-0.05348	0.010329	-0.00178	-0.00073	0.000806	0.000393	0.000435	-0.00046	0.000448
-0.00877	0.002209	0.065548	0.037474	0.031579	-0.05312	0.010893	-0.00163	-0.00065	0.000795	0.000394	0.000438	-0.00047	0.00045
-0.00279	-0.00281	0.084222	0.046208	0.02795	-0.05264	0.011454	-0.00149	-0.00057	0.000783	0.000395	0.000442	-0.00047	0.000452
0.007834	-0.00895	0.099565	0.053419	0.024004	-0.05203	0.012011	-0.00134	-0.00048	0.000771	0.000396	0.000446	-0.00048	0.000453
0.01636	-0.0135	0.109346	0.058721	0.019764	-0.05132	0.012563	-0.00118	-0.0004	0.000758	0.000397	0.00045	-0.00048	0.000455
-0.01603	-0.01445	0.111985	0.061729	0.015254	-0.05048	0.013111	-0.00103	-0.00031	0.000745	0.000398	0.000453	-0.00049	0.000457

-0.02009	-0.0107	0.106745	0.062182	0.010487	-0.04954	0.013653	-0.00087	-0.00022	0.000732	0.000399	0.000457	-0.00049	0.000458
-0.02213	-0.0012	0.093137	0.060292	0.005476	-0.04849	0.01419	-0.00072	-0.00014	0.000718	0.0004	0.000461	-0.0005	0.00046
0.000845	0.013661	0.070692	0.056353	0.000263	-0.04733	0.01472	-0.00056	-4.51E-05	0.000704	0.000401	0.000464	-0.0005	0.000462
0.003107	0.025803	0.039224	0.050652	-0.0051	-0.04607	0.015243	-0.0004	4.58E-05	0.000689	0.000401	0.000468	-0.00051	0.000463
0.006065	0.025809	0.000383	0.043476	-0.01056	-0.04471	0.01576	-0.00024	0.000138	0.000675	0.000402	0.000471	-0.00051	0.000465
0.021285	0.00312	-0.04106	0.035112	-0.01606	-0.04325	0.016268	-7.42E-05	0.000231	0.000659	0.000402	0.000475	-0.00052	0.000466
-0.01905	-0.03349	-0.07962	0.025846	-0.02156	-0.04169	0.016768	8.96E-05	0.000325	0.000644	0.000403	0.000478	-0.00052	0.000468
-0.0077	-0.03318	-0.10996	0.015966	-0.02701	-0.04004	0.017259	0.000255	0.00042	0.000628	0.000403	0.000482	-0.00053	0.00047
0.012954	-0.00223	-0.12809	0.005758	-0.03234	-0.03831	0.017741	0.00042	0.000515	0.000612	0.000403	0.000485	-0.00053	0.000471
-0.00998	0.028786	-0.1335	-0.00449	-0.03751	-0.03648	0.018213	0.000587	0.000612	0.000595	0.000403	0.000488	-0.00054	0.000473
0.007644	0.03416	-0.12681	-0.01451	-0.04247	-0.03457	0.018675	0.000755	0.00071	0.000578	0.000404	0.000492	-0.00054	0.000475
0.00127	0.042065	-0.10962	-0.02409	-0.04716	-0.03257	0.019126	0.000924	0.000808	0.000561	0.000404	0.000495	-0.00055	0.000476
-0.00567	0.043874	-0.08364	-0.03313	-0.05153	-0.0305	0.019566	0.001093	0.000907	0.000543	0.000404	0.000498	-0.00055	0.000478
-0.0042	0.027246	-0.05076	-0.04152	-0.05554	-0.02835	0.019994	0.001263	0.001007	0.000525	0.000403	0.000501	-0.00056	0.000479
0.003994	-0.00046	-0.01374	-0.04917	-0.05913	-0.02612	0.02041	0.001433	0.001107	0.000507	0.000403	0.000504	-0.00056	0.000481
0.009167	-0.02769	0.024469	-0.05598	-0.06224	-0.02382	0.020813	0.001604	0.001209	0.000489	0.000403	0.000508	-0.00056	0.000483
0.005407	-0.0454	0.06088	-0.06186	-0.06483	-0.02145	0.021203	0.001776	0.001311	0.00047	0.000403	0.000511	-0.00057	0.000484
0.003239	-0.04748	0.09268	-0.0667	-0.06684	-0.01902	0.021579	0.001948	0.001413	0.000451	0.000402	0.000514	-0.00057	0.000486
-0.01832	-0.03201	0.117998	-0.07043	-0.06823	-0.01652	0.021941	0.00212	0.001516	0.000431	0.000402	0.000517	-0.00058	0.000487
-0.01415	-0.00362	0.136461	-0.07292	-0.06895	-0.01395	0.022288	0.002292	0.00162	0.000411	0.000401	0.00052	-0.00058	0.000489
0.00681	0.026754	0.148033	-0.0741	-0.06893	-0.01132	0.02262	0.002464	0.001724	0.000391	0.000401	0.000523	-0.00059	0.000491
0.030552	0.046896	0.152678	-0.07385	-0.06816	-0.00863	0.022936	0.002637	0.001828	0.000371	0.0004	0.000526	-0.00059	0.000492
-0.00437	0.047756	0.150522	-0.07203	-0.06661	-0.0059	0.023236	0.002809	0.001934	0.00035	0.000399	0.000529	-0.0006	0.000494
-0.00925	0.03298	0.142361	-0.06866	-0.06435	-0.00312	0.023519	0.002981	0.002039	0.000329	0.000399	0.000532	-0.0006	0.000495
-0.0181	0.009423	0.129216	-0.06383	-0.06141	-0.00032	0.023785	0.003153	0.002145	0.000308	0.000398	0.000534	-0.00061	0.000497
-0.02679	-0.01605	0.11215	-0.05773	-0.05786	0.00251	0.024033	0.003325	0.002251	0.000287	0.000397	0.000537	-0.00061	0.000499
-0.05678	-0.03658	0.092234	-0.05052	-0.05374	0.00535	0.024263	0.003497	0.002358	0.000265	0.000396	0.00054	-0.00062	0.0005
-0.05687	-0.04628	0.070538	-0.04238	-0.0491	0.008194	0.024475	0.003668	0.002465	0.000243	0.000395	0.000543	-0.00062	0.000502
-0.02286	-0.04396	0.04803	-0.03348	-0.044	0.011036	0.024667	0.003838	0.002572	0.000221	0.000394	0.000546	-0.00063	0.000503
-0.00733	-0.03242	0.025237	-0.024	-0.03849	0.013865	0.024839	0.004008	0.002679	0.000198	0.000393	0.000548	-0.00063	0.000505
0.017272	-0.01512	0.002505	-0.01411	-0.03262	0.016673	0.024991	0.004178	0.002787	0.000175	0.000391	0.000551	-0.00064	0.000506
0.038606	0.00447	-0.01984	-0.00399	-0.02644	0.019452	0.025123	0.004346	0.002894	0.000152	0.00039	0.000554	-0.00064	0.000508
0.063406	0.022899	-0.04149	0.006185	-0.02001	0.022194	0.025233	0.004514	0.003002	0.000129	0.000389	0.000556	-0.00064	0.00051
0.077806	0.036711	-0.0621	0.016243	-0.01337	0.024889	0.025322	0.004681	0.00311	0.000105	0.000387	0.000559	-0.00065	0.000511
0.050832	0.043245	-0.08137	0.026014	-0.00658	0.027529	0.025388	0.004847	0.003218	8.16E-05	0.000386	0.000561	-0.00065	0.000513
0.034597	0.042993	-0.09897	0.035349	0.000315	0.030106	0.025432	0.005012	0.003326	5.76E-05	0.000384	0.000564	-0.00066	0.000514
0.013937	0.037207	-0.11454	0.044101	0.007255	0.032611	0.025453	0.005176	0.003435	3.34E-05	0.000383	0.000566	-0.00066	0.000516
-0.01999	0.027416	-0.12801	0.052127	0.014192	0.035035	0.02545	0.005339	0.003543	8.97E-06	0.000381	0.000569	-0.00067	0.000517
-0.04759	0.015222	-0.13938	0.059288	0.021073	0.03737	0.025423	0.0055	0.003651	-1.57E-05	0.000379	0.000571	-0.00067	0.000519
-0.08442	0.002225	-0.14869	0.065472	0.027848	0.039608	0.025371	0.005661	0.003759	-4.06E-05	0.000377	0.000574	-0.00068	0.000521
-0.08793	-0.00997	-0.156	0.07061	0.034464	0.04174	0.025294	0.005819	0.003866	-6.57E-05	0.000375	0.000576	-0.00068	0.000522
-0.0461	-0.02005	-0.16142	0.074676	0.040869	0.043757	0.025191	0.005977	0.003974	-9.10E-05	0.000374	0.000578	-0.00069	0.000524
-0.0172	-0.02784	-0.16512	0.077673	0.047012	0.045651	0.025062	0.006132	0.004082	-0.00012	0.000372	0.00058	-0.00069	0.000525
0.013759	-0.03346	-0.16725	0.079636	0.05284	0.047413	0.024907	0.006287	0.004189	-0.00014	0.00037	0.000583	-0.00069	0.000527
0.04159	-0.03699	-0.16806	0.080622	0.058303	0.049035	0.024724	0.006439	0.004296	-0.00017	0.000367	0.000585	-0.0007	0.000528
0.069366	-0.03853	-0.16778	0.080712	0.063347	0.050508	0.024514	0.00659	0.004403	-0.00019	0.000365	0.000587	-0.0007	0.00053
0.082212	-0.03824	-0.16661	0.079993	0.067923	0.051824	0.024275	0.006739	0.004509	-0.00022	0.000363	0.000589	-0.00071	0.000531
0.027673	-0.03611	-0.16472	0.07855	0.071981	0.052974	0.024008	0.006885	0.004615	-0.00025	0.000361	0.000591	-0.00071	0.000533
-0.02048	-0.03155	-0.16229	0.076463	0.075479	0.053949	0.023712	0.00703	0.004721	-0.00027	0.000358	0.000594	-0.00072	0.000534
-0.07491	-0.02394	-0.15933	0.073804	0.078385	0.054742	0.023387	0.007173	0.004826	-0.0003	0.000356	0.000596	-0.00072	0.000536
-0.05875	-0.01307	-0.15586	0.070628	0.080679	0.055343	0.023031	0.007314	0.004931	-0.00033	0.000354	0.000598	-0.00073	0.000537
-0.05481	-0.00027	-0.15189	0.066965	0.082372	0.055744	0.022644	0.007452	0.005035	-0.00035	0.000351	0.0006	-0.00073	0.000539
-0.02417	0.01273	-0.14743	0.06283	0.0835	0.055936	0.022227	0.007588	0.005139	-0.00038	0.000349	0.000602	-0.00073	0.000541
0.005308	0.024205	-0.14252	0.058237	0.0841	0.05591	0.021779	0.007722	0.005242	-0.00041	0.000346	0.000604	-0.00074	0.000542
0.039	0.032427	-0.13718	0.053205	0.084211	0.055658	0.021301	0.007853	0.005345	-0.00044	0.000343	0.000606	-0.00074	0.000544
0.055975	0.03567	-0.13145	0.047764	0.083863	0.055176	0.020795	0.007982	0.005447	-0.00046	0.00034	0.000607	-0.00075	0.000545
0.030898	0.032723	-0.12536	0.041958	0.083078	0.054473	0.020262	0.008108	0.005549	-0.00049	0.000338	0.000609	-0.00075	0.000547
0.009736	0.024446	-0.11892	0.035832	0.081873	0.053559	0.019703	0.008232	0.00565	-0.00052	0.000335	0.000611	-0.00076	0.000548
-0.0153	0.012213	-0.11211	0.029433	0.080267	0.052444	0.019119	0.008352	0.00575	-0.00055	0.000332	0.000613	-0.00076	0.00055
-0.04445	-0.0026	-0.10492	0.022811	0.078279	0.051138	0.018511	0.00847	0.00585	-0.00058	0.000329	0.000615	-0.00076	0.000551
-0.02289	-0.01812	-0.09733	0.016017	0.075927	0.049652	0.01788	0.008585	0.005948	-0.00061	0.000326	0.000616	-0.00077	0.000553
0.011425	-0.03054	-0.08933	0.0091	0.07323	0.047994	0.017229	0.008697	0.006046	-0.00063	0.000323	0.000618	-0.00077	0.000554
0.036743	-0.03552	-0.08091	0.002109	0.070207	0.046176	0.016557	0.008806	0.006143	-0.00066	0.00032	0.00062	-0.00078	0.000556
0.036899	-0.02955	-0.07206	-0.0049	0.066877	0.044206	0.015866	0.008912	0.006239	-0.00069	0.000317	0.000621	-0.00078	0.000557
0.019682	-0.01327	-0.06276	-0.01189	0.063256	0.042097	0.015157	0.009014	0.006335	-0.00072	0.000313	0.000623	-0.00078	0.000559
-0.00173	0.007709	-0.053	-0.0188	0.059366	0.039856	0.014432	0.009113	0.006429	-0.00075	0.00031	0.000625	-0.00079	0.00056
-0.02514	0.026703	-0.04277	-0.02559	0.055223	0.037496	0.013691	0.009209	0.006523	-0.00078	0.000307	0.000626	-0.00079	0.000562
-0.03446	0.037207	-0.03205	-0.03219	0.050847	0.035024	0.012935	0.009301	0.006615	-0.00081	0.000304	0.000628	-0.0008	0.000563
-0.01779	0.035036	-0.02088	-0.03855	0.046256	0.032453	0.012167	0.00939	0.006707	-0.00084	0.0003	0.000629	-0.0008	0.000565
0.003699	0.022815	-0.00945	-0.04463	0.041468	0.02979	0.011386	0.009476	0.006797	-0.00087	0.000297	0.000631	-0.00081	0.000566
0.035768	0.004741	0.002082	-0.05037	0.036503	0.027048	0.010595	0.009557	0.006887	-0.0009	0.000293	0.000632	-0.00081	0.000568
0.019328	-0.015	0.013583	-0.05573	0.031379	0.024235	0.009794	0.009635	0.006975	-0.00093	0.00029	0.000634	-0.00081	0.000569
-0.01062	-0.03221	0.02492	-0.06065	0.026115	0.021363	0.008984	0.009709	0.007062	-0.00095	0.000286	0.000635	-0.00082	0.000571
-0.03894	-0.04268	0.035963	-0.06509	0.020728	0.01844	0.008167	0.009779	0.007148	-0.00098	0.000282	0.000636	-0.00082	0.000572
-0.01005	-0.04333	0.046592	-0.06901	0.015239	0.015477	0.007344	0.009846	0.007233	-0.00101	0.000279	0.000638	-0.00083	0.000574
0.005093	-0.03565	0.056709	-0.07237	0.009664	0.012484	0.006516	0.009908	0.007316	-0.00104	0.000275	0.000639	-0.00083	0.000575
0.021572	-0.02234	0.066293	-0.07514	0.004023	0.009471	0.005684	0.009966	0.007398	-0.00107	0.000271	0.00064	-0.00083	0.000577
0.030928	-0.00611	0.07534	-0.07728	-0.00166	0.006448	0.00485	0.010019	0.007479	-0.0011	0.000267	0.000642	-0.00084	0.000578
0.045299	0.010329	0.083849	-0.07877	-0.00738	0.003426	0.004014	0.010069	0.007559	-0.00113	0.000263	0.000643	-0.00084	0.000579
0.04488	0.024788	0.091815	-0.07956	-0.01311	0.000413	0.003177	0.010114	0.007637	-0.00116	0.000259	0.000644	-0.00085	0.000581
0.007362	0.037083	0.099237	-0.07962	-0.01883	-0.00258	0.002342	0.010155	0.007714	-0.00119	0.000255	0.000645	-0.00085	0.000582
-0.02721	0.046983	0.106112	-0.07892	-0.02452	-0.00554	0.001508	0.010191	0.007789	-0.00122	0.000251	0.000646	-0.00085	0.000584
-0.04844	0.05411	0.112437	-0.07743	-0.03015	-0.00846	0.000678	0.010223	0.007863	-0.00125	0.000247	0.000647	-0.00086	0.000585
-0.02756	0.057901	0.11821	-0.07514	-0.0357	-0.01133	-0.00015	0.01025	0.007936	-0.00128	0.000243	0.000648	-0.00086	0.000587
-0.01074	0.057084	0.123379	-0.07203	-0.04112	-0.01414	-0.00097	0.010272	0.008006	-0.00132	0.000239	0.000649	-0.00087	0.000588
0.025494	0.050459	0.127637	-0.06809	-0.04636	-0.01688	-0.00178	0.01029	0.008076	-0.00135	0.000235	0.00065	-0.00087	0.00059
0.04812	0.037017	0.130505	-0.06332	-0.0514	-0.01954	-0.00259	0.010302	0.008144	-0.00138	0.00023	0.000651	-0.00087	0.000591
0.015759	0.016292	0.131907	-0.05778	-0.05618	-0.02211	-0.00339	0.01031	0.00821	-0.00141	0.000226	0.000652	-0.00088	0.000593
-0.00609	-0.00863	0.1319	-0.05152	-0.06066	-0.02458	-0.00417	0.010312	0.008274	-0.00144	0.000222	0.000653	-0.00088	0.000594
-0.02536	-0.03374	0.130555	-0.04461	-0.06482	-0.02693	-0.00495	0.01031	0.008337	-0.00147	0.000217	0.000654	-0.00089	0.000596
-0.04446	-0.05505	0.12795	-0.03714	-0.06863	-0.02917	-0.00571	0.010302	0.008398	-0.0015	0.000213	0.000655	-0.00089	0.000597
-0.0309	-0.06929	0.124184	-0.02918	-0.07204	-0.03127	-0.00646	0.010289	0.008457	-0.00153	0.000208	0.000656	-0.00089	0.000598
-0.01967	-0.07639	0.119364	-0.02084	-0.07506	-0.03324	-0.00719	0.010271	0.008515	-0.00156	0.000204	0.000657	-0.0009	0.0006

-0.01167	-0.07752	0.113678	-0.01221	-0.07765	-0.03505	-0.00791	0.010247	0.008571	-0.00159	0.000199	0.000658	-0.0009	0.000601
-0.01042	-0.07416	0.107492	-0.00337	-0.0798	-0.0367	-0.00861	0.010218	0.008625	-0.00162	0.000195	0.000658	-0.00091	0.000603
-0.00322	-0.06722	0.10061	0.00557	-0.08147	-0.03818	-0.0093	0.010183	0.008677	-0.00165	0.00019	0.000659	-0.00091	0.000604
0.001	-0.05746	0.092679	0.014525	-0.08266	-0.03948	-0.00996	0.010143	0.008727	-0.00168	0.000185	0.00066	-0.00091	0.000606
0.004636	-0.04563	0.083344	0.023399	-0.08334	-0.04059	-0.0106	0.010096	0.008775	-0.00171	0.000181	0.00066	-0.00092	0.000607
0.008346	-0.03248	0.072262	0.032089	-0.08349	-0.04149	-0.01122	0.010044	0.008821	-0.00174	0.000176	0.000661	-0.00092	0.000608
0.014218	-0.01878	0.059134	0.040446	-0.08308	-0.04219	-0.01182	0.009987	0.008865	-0.00177	0.000171	0.000662	-0.00092	0.00061
0.02016	-0.00527	0.043673	0.048308	-0.08208	-0.04268	-0.01239	0.009923	0.008907	-0.0018	0.000166	0.000662	-0.00093	0.000611
0.03203	0.007284	0.02559	0.055517	-0.08046	-0.04297	-0.01294	0.009853	0.008948	-0.00183	0.000161	0.000663	-0.00093	0.000613
0.014643	0.018484	0.004816	0.061912	-0.07816	-0.04307	-0.01346	0.009777	0.008986	-0.00186	0.000156	0.000663	-0.00094	0.000614
-0.00693	0.029252	-0.0178	0.067332	-0.07516	-0.04299	-0.01396	0.009695	0.009021	-0.00189	0.000151	0.000664	-0.00094	0.000616
-0.03247	0.040597	-0.04092	0.071619	-0.07141	-0.04273	-0.01442	0.009607	0.009055	-0.00192	0.000146	0.000664	-0.00094	0.000617
-0.02393	0.053449	-0.06279	0.07461	-0.06688	-0.0423	-0.01486	0.009512	0.009087	-0.00195	0.000141	0.000665	-0.00095	0.000618
0.009724	0.06805	-0.0807	0.076148	-0.06151	-0.04171	-0.01527	0.009411	0.009116	-0.00198	0.000136	0.000665	-0.00095	0.00062
0.023533	0.080219	-0.09145	0.076071	-0.05528	-0.04097	-0.01565	0.009304	0.009143	-0.00201	0.000131	0.000666	-0.00095	0.000621
0.037655	0.084639	-0.09182	0.074233	-0.04815	-0.04009	-0.01601	0.00919	0.009168	-0.00204	0.000126	0.000666	-0.00096	0.000623
-0.01072	0.074649	-0.07898	0.07053	-0.04018	-0.03907	-0.01633	0.009069	0.00919	-0.00207	0.000121	0.000666	-0.00096	0.000624
-0.04197	0.039437	-0.05301	0.064876	-0.03144	-0.03791	-0.01663	0.008942	0.00921	-0.0021	0.000115	0.000667	-0.00096	0.000625
-0.01689	-0.01984	-0.01933	0.057219	-0.02208	-0.03664	-0.01691	0.008808	0.009228	-0.00213	0.00011	0.000667	-0.00097	0.000627
0.046653	-0.06777	0.015423	0.047535	-0.01224	-0.03525	-0.01715	0.008667	0.009243	-0.00216	0.000105	0.000667	-0.00097	0.000628
0.043594	-0.07249	0.045307	0.035814	-0.00211	-0.03376	-0.01737	0.008519	0.009256	-0.00218	9.96E-05	0.000668	-0.00098	0.00063
-0.00066	-0.04167	0.066942	0.022069	0.008116	-0.03217	-0.01756	0.008364	0.009266	-0.00221	9.42E-05	0.000668	-0.00098	0.000631
-0.04955	0.002145	0.076728	0.00632	0.01824	-0.03048	-0.01773	0.008202	0.009274	-0.00224	8.88E-05	0.000668	-0.00098	0.000632
-0.05143	0.039847	0.070585	-0.01116	0.028057	-0.02871	-0.01787	0.008033	0.009279	-0.00227	8.34E-05	0.000668	-0.00099	0.000634
-0.027	0.055349	0.044864	-0.02906	0.037364	-0.02686	-0.01798	0.007856	0.009281	-0.0023	7.79E-05	0.000668	-0.00099	0.000635
0.048239	0.024963	0.003832	-0.04583	0.045956	-0.02495	-0.01807	0.007672	0.009281	-0.00233	7.24E-05	0.000668	-0.00099	0.000637
-0.04464	-0.04439	-0.03744	-0.05992	0.05363	-0.02297	-0.01813	0.007481	0.009279	-0.00236	6.69E-05	0.000669	-0.001	0.000638
0.039714	-0.04318	-0.06282	-0.06977	0.060184	-0.02094	-0.01816	0.007283	0.009274	-0.00239	6.13E-05	0.000669	-0.001	0.000639
-0.02408	0.010248	-0.06403	-0.07393	0.065421	-0.01886	-0.01817	0.007077	0.009266	-0.00241	5.57E-05	0.000669	-0.001	0.000641
-0.02737	0.026623	-0.04458	-0.07165	0.069214	-0.01674	-0.01816	0.006863	0.009255	-0.00244	5.01E-05	0.000669	-0.00101	0.000642
-0.00316	-0.00065	-0.01139	-0.06355	0.071581	-0.01459	-0.01812	0.006642	0.009241	-0.00247	4.44E-05	0.000669	-0.00101	0.000644
0.014855	-0.01579	0.022515	-0.05055	0.072577	-0.01242	-0.01805	0.006413	0.009225	-0.0025	3.87E-05	0.000669	-0.00101	0.000645
-0.00966	0.002254	0.046455	-0.03359	0.072253	-0.01023	-0.01796	0.006176	0.009206	-0.00253	3.30E-05	0.000669	-0.00102	0.000646
-0.00232	0.007657	0.054581	-0.01359	0.07066	-0.00803	-0.01784	0.005932	0.009184	-0.00255	2.72E-05	0.000668	-0.00102	0.000648
0.002717	-0.00048	0.043701	0.008303	0.06785	-0.00582	-0.0177	0.005681	0.009159	-0.00258	2.15E-05	0.000668	-0.00102	0.000649
-0.00114	-0.00381	0.017196	0.03005	0.063878	-0.00361	-0.01753	0.005422	0.009131	-0.00261	1.57E-05	0.000668	-0.00103	0.00065
0.000827	0.003829	-0.01678	0.049394	0.058797	-0.00141	-0.01735	0.005157	0.0091	-0.00264	9.81E-06	0.000668	-0.00103	0.000652
-0.00262	-0.00118	-0.04074	0.064072	0.052664	0.000763	-0.01714	0.004885	0.009066	-0.00266	3.94E-06	0.000668	-0.00104	0.000653
-0.00661	-0.00744	-0.04722	0.071821	0.045534	0.002911	-0.0169	0.004607	0.00903	-0.00269	-1.96E-06	0.000668	-0.00104	0.000654
-0.00662	0.001868	-0.03413	0.071076	0.037486	0.005022	-0.01665	0.004323	0.00899	-0.00272	-7.89E-06	0.000667	-0.00104	0.000656
0.010426	0.014185	-0.00746	0.06305	0.028706	0.007085	-0.01637	0.004034	0.008947	-0.00274	-1.38E-05	0.000667	-0.00105	0.000657
-0.01489	-0.00216	0.02337	0.049652	0.0194	0.009091	-0.01608	0.003739	0.008901	-0.00277	-1.98E-05	0.000667	-0.00105	0.000658
0.019624	-0.02194	0.043362	0.032765	0.009779	0.011033	-0.01576	0.00344	0.008851	-0.00279	-2.58E-05	0.000666	-0.00105	0.00066
-0.02408	0.023777	0.039701	0.014085	4.95E-05	0.012899	-0.01542	0.003136	0.008799	-0.00282	-3.19E-05	0.000666	-0.00106	0.000661
0.027634	0.028873	0.015352	-0.00508	-0.00958	0.014682	-0.01507	0.002829	0.008743	-0.00285	-3.79E-05	0.000666	-0.00106	0.000663
-0.0298	-0.03308	-0.01507	-0.02352	-0.0189	0.016371	-0.0147	0.002518	0.008684	-0.00287	-4.40E-05	0.000665	-0.00106	0.000664
0.030345	-0.03387	-0.0354	-0.04001	-0.02769	0.017958	-0.01431	0.002203	0.008622	-0.0029	-5.01E-05	0.000665	-0.00107	0.000665
0.003422	0.004482	-0.04117	-0.05334	-0.03577	0.019434	-0.0139	0.001886	0.008557	-0.00292	-5.63E-05	0.000665	-0.00107	0.000667
-0.02718	0.036561	-0.03795	-0.06246	-0.0429	0.020789	-0.01348	0.001567	0.008488	-0.00295	-6.24E-05	0.000664	-0.00107	0.000668
-0.00569	0.031349	-0.03159	-0.06709	-0.04889	0.022015	-0.01304	0.001246	0.008415	-0.00297	-6.86E-05	0.000664	-0.00108	0.000669
0.020522	0.004436	-0.02391	-0.06747	-0.05353	0.023102	-0.01258	0.000923	0.00834	-0.003	-7.49E-05	0.000663	-0.00108	0.000671
-0.01681	-0.02068	-0.01549	-0.06432	-0.05665	0.02404	-0.01211	0.000599	0.008261	-0.00302	-8.11E-05	0.000662	-0.00108	0.000672
0.013269	-0.03613	-0.00683	-0.0582	-0.05833	0.024822	-0.01163	0.000275	0.008178	-0.00304	-8.73E-05	0.000662	-0.00108	0.000673
0.004851	-0.03175	0.001585	-0.04967	-0.05866	0.025437	-0.01114	-4.98E-05	0.008092	-0.00307	-9.36E-05	0.000661	-0.00109	0.000675
-0.00114	-0.02031	0.009407	-0.03925	-0.05775	0.025882	-0.01063	-0.00037	0.008002	-0.00309	-9.99E-05	0.000661	-0.00109	0.000676
-0.00497	-0.0112	0.016609	-0.02749	-0.05574	0.026163	-0.01011	-0.0007	0.007909	-0.00311	-0.00011	0.00066	-0.00109	0.000677
0.003161	-0.00553	0.023247	-0.01493	-0.05274	0.026285	-0.00958	-0.00102	0.007812	-0.00314	-0.00011	0.000659	-0.0011	0.000679
-0.00187	0.005379	0.029374	-0.00209	-0.04889	0.026258	-0.00904	-0.00134	0.007712	-0.00316	-0.00012	0.000659	-0.0011	0.00068
0.001117	0.021851	0.035045	0.010482	-0.0443	0.026089	-0.0085	-0.00166	0.007608	-0.00318	-0.00013	0.000658	-0.0011	0.000681
0.001064	0.025979	0.040313	0.02225	-0.03911	0.025784	-0.00794	-0.00197	0.0075	-0.00321	-0.00013	0.000657	-0.00111	0.000682
-0.00132	0.009657	0.044666	0.032677	-0.03343	0.025353	-0.00737	-0.00228	0.007389	-0.00323	-0.00014	0.000657	-0.00111	0.000684
0.002575	-0.01115	0.045523	0.04129	-0.0274	0.024803	-0.0068	-0.00259	0.007273	-0.00325	-0.00014	0.000656	-0.00111	0.000685
0.003978	-0.02161	0.040503	0.04791	-0.02113	0.024142	-0.00623	-0.00289	0.007154	-0.00327	-0.00015	0.000655	-0.00112	0.000686
-0.00622	-0.01466	0.028232	0.05259	-0.01476	0.023378	-0.00565	-0.00319	0.007031	-0.00329	-0.00016	0.000654	-0.00112	0.000688
0.009	-0.0039	0.011116	0.055531	-0.0084	0.022519	-0.00506	-0.00349	0.006905	-0.00331	-0.00016	0.000653	-0.00112	0.000689
-0.00797	0.008113	-0.00748	0.056959	-0.00219	0.021573	-0.00448	-0.00377	0.006774	-0.00333	-0.00017	0.000652	-0.00113	0.00069
-0.01578	0.016847	-0.02431	0.057098	0.003755	0.020548	-0.00389	-0.00406	0.006639	-0.00335	-0.00018	0.000651	-0.00113	0.000692
-0.01368	0.017423	-0.03698	0.056164	0.009316	0.019451	-0.00331	-0.00433	0.006501	-0.00337	-0.00018	0.000651	-0.00113	0.000693
0.00706	0.00985	-0.04526	0.054327	0.014425	0.018292	-0.00272	-0.0046	0.006358	-0.00339	-0.00019	0.00065	-0.00114	0.000694
0.030787	-0.00124	-0.04967	0.05172	0.019049	0.017077	-0.00214	-0.00486	0.006212	-0.00341	-0.0002	0.000649	-0.00114	0.000695
0.031	-0.01094	-0.05074	0.048455	0.023177	0.015815	-0.00157	-0.00511	0.006061	-0.00343	-0.0002	0.000648	-0.00114	0.000697
0.004801	-0.01681	-0.04901	0.044605	0.026812	0.014514	-0.00099	-0.00536	0.005907	-0.00345	-0.00021	0.000647	-0.00114	0.000698
-0.02427	-0.01712	-0.04501	0.040187	0.029967	0.013181	-0.00043	-0.00559	0.005748	-0.00347	-0.00022	0.000646	-0.00115	0.000699
-0.04009	-0.00999	-0.03962	0.035383	0.032653	0.011826	0.000131	-0.00582	0.005585	-0.00349	-0.00022	0.000644	-0.00115	0.000701
-0.03793	0.004407	-0.03376	0.03042	0.034885	0.010454	0.000681	-0.00604	0.005418	-0.00351	-0.00023	0.000643	-0.00115	0.000702
-0.00254	0.017605	-0.02834	0.025525	0.036674	0.009076	0.001222	-0.00624	0.005246	-0.00352	-0.00024	0.000642	-0.00116	0.000703
0.043723	0.018701	-0.02385	0.020879	0.038034	0.007698	0.001751	-0.00644	0.005071	-0.00354	-0.00024	0.000641	-0.00116	0.000704
-0.0079	0.001272	-0.01913	0.016474	0.038978	0.006329	0.002269	-0.00662	0.004891	-0.00356	-0.00025	0.00064	-0.00116	0.000706
-0.04207	-0.01755	-0.01262	0.01225	0.039516	0.004978	0.002773	-0.00679	0.004707	-0.00357	-0.00026	0.000639	-0.00116	0.000707
-0.0136	-0.02029	-0.0028	0.00815	0.039662	0.003655	0.003264	-0.00695	0.004518	-0.00359	-0.00026	0.000638	-0.00117	0.000708
0.003941	-0.01122	0.011119	0.004114	0.03943	0.002364	0.003739	-0.0071	0.004326	-0.00361	-0.00027	0.000636	-0.00117	0.00071
0.005952	0.00289	0.026774	8.36E-05	0.038838	0.001109	0.004197	-0.00724	0.004128	-0.00362	-0.00028	0.000635	-0.00117	0.000711
0.019741	0.01609	0.041004	-0.004	0.037904	-0.00011	0.004638	-0.00736	0.003927	-0.00364	-0.00028	0.000634	-0.00118	0.000712
0.026627	0.022417	0.05065	-0.0082	0.036647	-0.00128	0.00506	-0.00746	0.003721	-0.00365	-0.00029	0.000633	-0.00118	0.000713
0.025178	0.016049	0.053182	-0.01253	0.035085	-0.00241	0.005463	-0.00756	0.00351	-0.00367	-0.0003	0.000631	-0.00118	0.000715
-0.00097	-0.00431	0.048583	-0.01688	0.033237	-0.0035	0.005844	-0.00763	0.003295	-0.00368	-0.0003	0.00063	-0.00119	0.000716
-0.01498	-0.02397	0.037428	-0.02106	0.031121	-0.00454	0.006203	-0.00769	0.003075	-0.00369	-0.00031	0.000629	-0.00119	0.000717
0.011634	-0.02342	0.020329	-0.02486	0.028754	-0.00552	0.006538	-0.00774	0.002851	-0.00371	-0.00032	0.000627	-0.00119	0.000718
-0.0088	0.006037	-0.00094	-0.02808	0.026156	-0.00645	0.006849	-0.00777	0.002622	-0.00372	-0.00033	0.000626	-0.00119	0.00072
0.001378	0.025545	-0.02116	-0.03052	0.023344	-0.00733	0.007135	-0.00778	0.002388	-0.00373	-0.00033	0.000624	-0.0012	0.000721
0.004876	0.018919	-0.03632	-0.03197	0.020338	-0.00814	0.007393	-0.00778	0.00215	-0.00374	-0.00034	0.000623	-0.0012	0.000722
-0.0038	-0.00399	-0.04561	-0.03222	0.017155	-0.00889	0.007624	-0.00775	0.001907	-0.00376	-0.00035	0.000621	-0.0012	0.000723
-0.00143	-0.02258	-0.04891	-0.03108	0.01381	-0.00958	0.007826	-0.00771	0.001659	-0.00377	-0.00035	0.00062	-0.0012	0.000725

0.003227	-0.02761	-0.04601	-0.0284	0.010304	-0.01021	0.007997	-0.00765	0.001407	-0.00378	-0.00036	0.000618	-0.00121	0.000726
-0.00359	-0.02369	-0.03686	-0.02439	0.006661	-0.01076	0.008138	-0.00757	0.00115	-0.00379	-0.00037	0.000617	-0.00121	0.000727
0.003177	-0.01965	-0.02311	-0.01938	0.002942	-0.01124	0.008246	-0.00748	0.000889	-0.0038	-0.00037	0.000615	-0.00121	0.000728
0.005169	-0.01465	-0.00689	-0.0137	-0.00078	-0.01164	0.008321	-0.00736	0.000623	-0.00381	-0.00038	0.000614	-0.00122	0.00073
0.003413	-0.00793	0.009692	-0.0077	-0.00443	-0.01197	0.008361	-0.00722	0.000353	-0.00382	-0.00039	0.000612	-0.00122	0.000731
2.96E-05	0.00178	0.024512	-0.00172	-0.00793	-0.01222	0.008366	-0.00707	7.90E-05	-0.00383	-0.00039	0.000611	-0.00122	0.000732
-0.00842	0.015721	0.035452	0.003902	-0.0112	-0.01239	0.008335	-0.00689	-0.0002	-0.00384	-0.0004	0.000609	-0.00122	0.000733
0.009422	0.029994	0.040393	0.008818	-0.01417	-0.01247	0.008265	-0.00669	-0.00048	-0.00384	-0.00041	0.000607	-0.00123	0.000734
0.006831	0.029084	0.037954	0.012747	-0.01677	-0.01246	0.008158	-0.00648	-0.00076	-0.00385	-0.00042	0.000606	-0.00123	0.000736
-0.01095	0.008896	0.029712	0.015636	-0.01891	-0.01236	0.008013	-0.00625	-0.00105	-0.00386	-0.00042	0.000604	-0.00123	0.000737
0.011438	-0.01807	0.017981	0.017492	-0.02052	-0.01217	0.00783	-0.00599	-0.00134	-0.00387	-0.00043	0.000602	-0.00123	0.000738
0.002622	-0.02975	0.005077	0.018325	-0.02152	-0.01189	0.007611	-0.00573	-0.00163	-0.00387	-0.00044	0.0006	-0.00124	0.000739
-0.00522	-0.02261	-0.00706	0.018169	-0.02188	-0.01152	0.007359	-0.00544	-0.00193	-0.00388	-0.00044	0.000599	-0.00124	0.000741
-0.01208	-0.00091	-0.01775	0.017093	-0.02156	-0.01106	0.007076	-0.00514	-0.00222	-0.00388	-0.00045	0.000597	-0.00124	0.000742
-0.00645	0.022252	-0.02575	0.015249	-0.02063	-0.01052	0.006765	-0.00483	-0.00252	-0.00389	-0.00046	0.000595	-0.00125	0.000743
0.012375	0.027879	-0.02962	0.012808	-0.01918	-0.00991	0.006427	-0.00451	-0.00281	-0.00389	-0.00046	0.000593	-0.00125	0.000744
0.000248	0.004865	-0.02831	0.009934	-0.01728	-0.00923	0.006065	-0.00418	-0.00311	-0.0039	-0.00047	0.000591	-0.00125	0.000745
-0.01316	-0.0225	-0.02252	0.006781	-0.01501	-0.0085	0.005682	-0.00383	-0.00341	-0.0039	-0.00048	0.000589	-0.00125	0.000747
0.01389	-0.02546	-0.0136	0.003522	-0.01245	-0.00772	0.00528	-0.00348	-0.0037	-0.0039	-0.00049	0.000587	-0.00126	0.000748
-0.01432	-0.00159	-0.00349	0.000342	-0.00968	-0.0069	0.004861	-0.00312	-0.004	-0.00391	-0.00049	0.000586	-0.00126	0.000749
-0.01618	0.018303	0.006174	-0.00257	-0.00679	-0.00606	0.004427	-0.00275	-0.00429	-0.00391	-0.0005	0.000584	-0.00126	0.00075
-0.00497	0.022477	0.013892	-0.00503	-0.00386	-0.00518	0.003982	-0.00238	-0.00459	-0.00391	-0.00051	0.000582	-0.00126	0.000751
0.019451	0.014888	0.01844	-0.00683	-0.001	-0.00429	0.003528	-0.00201	-0.00488	-0.00391	-0.00051	0.00058	-0.00127	0.000753
-0.00225	0.001126	0.01972	-0.00778	0.001704	-0.0034	0.003066	-0.00163	-0.00517	-0.00391	-0.00052	0.000578	-0.00127	0.000754
-0.02061	-0.01206	0.017974	-0.00774	0.004153	-0.0025	0.002599	-0.00125	-0.00546	-0.00391	-0.00053	0.000576	-0.00127	0.000755
-0.02549	-0.01845	0.013691	-0.00684	0.006277	-0.00161	0.00213	-0.00086	-0.00574	-0.00391	-0.00053	0.000574	-0.00127	0.000756
-0.00791	-0.01631	0.007502	-0.00533	0.008061	-0.00074	0.001662	-0.00048	-0.00602	-0.00391	-0.00054	0.000572	-0.00128	0.000757
-0.00572	-0.00827	0.000416	-0.00345	0.009506	0.000113	0.001195	-0.0001	-0.0063	-0.00391	-0.00055	0.000569	-0.00128	0.000759
0.011101	0.002036	-0.00638	-0.00148	0.010608	0.00093	0.000734	0.000275	-0.00658	-0.00391	-0.00056	0.000567	-0.00128	0.00076
0.021794	0.010968	-0.01167	0.00034	0.011368	0.001707	0.000279	0.000649	-0.00685	-0.00391	-0.00056	0.000565	-0.00128	0.000761
0.035374	0.014888	-0.01424	0.001752	0.011783	0.002437	-0.00017	0.001018	-0.00711	-0.0039	-0.00057	0.000563	-0.00129	0.000762
0.029977	0.011383	-0.0133	0.00256	0.011861	0.003111	-0.0006	0.001381	-0.00737	-0.0039	-0.00058	0.000561	-0.00129	0.000763
0.013477	0.002972	-0.00962	0.002812	0.011649	0.003722	-0.00102	0.001738	-0.00763	-0.00389	-0.00058	0.000559	-0.00129	0.000764
-0.00032	-0.0066	-0.0044	0.002596	0.011219	0.004267	-0.00142	0.002086	-0.00788	-0.00389	-0.00059	0.000557	-0.00129	0.000766
-0.02065	-0.01358	0.001164	0.002038	0.010604	0.004745	-0.0018	0.002425	-0.00812	-0.00388	-0.0006	0.000554	-0.0013	0.000767
-0.04043	-0.01441	0.006055	0.00127	0.009827	0.005157	-0.00216	0.002753	-0.00836	-0.00388	-0.0006	0.000552	-0.0013	0.000768
-0.01752	-0.00751	0.009935	0.000427	0.008911	0.005502	-0.0025	0.00307	-0.00859	-0.00387	-0.00061	0.00055	-0.0013	0.000769
-0.00439	0.00335	0.012482	-0.00036	0.007881	0.005781	-0.00281	0.003374	-0.00881	-0.00387	-0.00062	0.000548	-0.0013	0.00077
0.022779	0.013136	0.013324	-0.00093	0.006758	0.005994	-0.00309	0.003665	-0.00903	-0.00386	-0.00063	0.000545	-0.0013	0.000771
0.03863	0.016798	0.012082	-0.00115	0.005564	0.00614	-0.00334	0.00394	-0.00924	-0.00385	-0.00063	0.000543	-0.00131	0.000773
0.005673	0.010998	0.00871	-0.00102	0.004314	0.006219	-0.00356	0.0042	-0.00944	-0.00384	-0.00064	0.000541	-0.00131	0.000774
-0.00474	-0.00078	0.003788	-0.00066	0.003037	0.006231	-0.00374	0.004442	-0.00963	-0.00383	-0.00065	0.000538	-0.00131	0.000775
-0.0218	-0.01334	-0.00196	-0.00016	0.001768	0.006177	-0.00388	0.004667	-0.00981	-0.00382	-0.00065	0.000536	-0.00131	0.000776
-0.03149	-0.02149	-0.00782	0.000387	0.000538	0.006059	-0.00399	0.004871	-0.00999	-0.00381	-0.00066	0.000533	-0.00132	0.000777
-0.01495	-0.02145	-0.01302	0.000877	-0.00062	0.00588	-0.00405	0.005056	-0.01015	-0.0038	-0.00067	0.000531	-0.00132	0.000778
-0.01091	-0.01489	-0.01673	0.001216	-0.00167	0.005644	-0.00409	0.005219	-0.0103	-0.00379	-0.00067	0.000529	-0.00132	0.00078
-0.00342	-0.00424	-0.01876	0.001312	-0.0026	0.005354	-0.00408	0.005361	-0.01045	-0.00378	-0.00068	0.000526	-0.00132	0.000781
0.004083	0.008239	-0.01908	0.001105	-0.00337	0.005013	-0.00405	0.005481	-0.01058	-0.00377	-0.00069	0.000524	-0.00133	0.000782
0.009297	0.020279	-0.01778	0.000651	-0.004	0.004624	-0.00399	0.005581	-0.01071	-0.00375	-0.0007	0.000521	-0.00133	0.000783
0.015525	0.029621	-0.01495	3.00E-05	-0.00448	0.00419	-0.00389	0.005659	-0.01082	-0.00374	-0.0007	0.000519	-0.00133	0.000784
0.004777	0.034595	-0.01068	-0.0007	-0.00481	0.003715	-0.00378	0.005718	-0.01092	-0.00373	-0.00071	0.000516	-0.00133	0.000785
-0.00023	0.036157	-0.00504	-0.00147	-0.005	0.003201	-0.00364	0.005756	-0.01101	-0.00371	-0.00072	0.000514	-0.00133	0.000786
-0.00831	0.036287	0.00182	-0.00223	-0.00505	0.002652	-0.00347	0.005776	-0.01109	-0.0037	-0.00072	0.000511	-0.00134	0.000787
0.006438	0.034637	0.009461	-0.00292	-0.00496	0.002071	-0.00329	0.005777	-0.01115	-0.00368	-0.00073	0.000508	-0.00134	0.000789
0.00304	0.028911	0.017156	-0.00348	-0.00474	0.001466	-0.00309	0.00576	-0.01121	-0.00366	-0.00074	0.000506	-0.00134	0.00079
-0.0038	0.015685	0.024067	-0.00385	-0.0044	0.000843	-0.00288	0.005726	-0.01125	-0.00365	-0.00074	0.000503	-0.00134	0.000791
0.003067	-0.00345	0.02945	-0.00395	-0.00396	0.00021	-0.00265	0.005675	-0.01129	-0.00363	-0.00075	0.000501	-0.00135	0.000792
-0.00268	-0.01752	0.032585	-0.00374	-0.00343	-0.00042	-0.00241	0.005609	-0.01131	-0.00361	-0.00076	0.000498	-0.00135	0.000793
0.002543	-0.03436	0.032772	-0.00316	-0.00282	-0.00105	-0.00217	0.005529	-0.01132	-0.00359	-0.00076	0.000495	-0.00135	0.000794
-0.00254	-0.0459	0.029385	-0.00223	-0.00215	-0.00167	-0.00192	0.005434	-0.01133	-0.00357	-0.00077	0.000493	-0.00135	0.000795
-0.00244	-0.03262	0.022152	-0.00101	-0.00145	-0.00226	-0.00166	0.005326	-0.01132	-0.00355	-0.00078	0.00049	-0.00135	0.000796
-0.00195	0.003608	0.012041	0.000406	-0.00073	-0.00281	-0.0014	0.005205	-0.0113	-0.00353	-0.00078	0.000487	-0.00136	0.000798
0.002939	0.037791	0.000328	0.001957	-2.46E-05	-0.00333	-0.00114	0.005073	-0.01128	-0.00351	-0.00079	0.000484	-0.00136	0.000799
-0.00069	0.048513	-0.01171	0.003566	0.000658	-0.0038	-0.00089	0.004929	-0.01124	-0.00348	-0.0008	0.000482	-0.00136	0.0008
-0.0034	0.046586	-0.02292	0.005157	0.001292	-0.0042	-0.00064	0.004776	-0.0112	-0.00346	-0.00081	0.000479	-0.00136	0.000801
0.003673	0.045593	-0.0326	0.006656	0.001859	-0.00454	-0.00039	0.004613	-0.01114	-0.00344	-0.00081	0.000476	-0.00136	0.000802
-0.00399	0.03928	-0.0402	0.007988	0.002335	-0.00481	-0.00015	0.004441	-0.01108	-0.00341	-0.00082	0.000473	-0.00137	0.000803
0.004345	0.020501	-0.04514	0.009078	0.002702	-0.00498	7.24E-05	0.004262	-0.01101	-0.00339	-0.00083	0.00047	-0.00137	0.000804
-0.00017	0.008643	-0.04685	0.009852	0.002938	-0.00507	0.000285	0.004075	-0.01092	-0.00336	-0.00083	0.000468	-0.00137	0.000805
-0.00511	-0.00123	-0.04477	0.010248	0.003023	-0.00505	0.000484	0.003882	-0.01084	-0.00333	-0.00084	0.000465	-0.00137	0.000806
0.005485	-0.01508	-0.03841	0.01026	0.002939	-0.00492	0.000668	0.003683	-0.01074	-0.00331	-0.00085	0.000462	-0.00137	0.000807
-0.00585	-0.03751	-0.02728	0.009882	0.002689	-0.00469	0.000838	0.00348	-0.01063	-0.00328	-0.00085	0.000459	-0.00138	0.000809
0.006233	-0.04504	-0.01108	0.009094	0.002295	-0.00436	0.000993	0.003272	-0.01052	-0.00325	-0.00086	0.000456	-0.00138	0.00081
-0.00122	-0.0298	0.009199	0.007878	0.001783	-0.00394	0.001135	0.003061	-0.0104	-0.00322	-0.00087	0.000453	-0.00138	0.000811
-0.0073	-0.0029	0.029954	0.006211	0.001182	-0.00344	0.001262	0.002848	-0.01027	-0.0032	-0.00087	0.00045	-0.00138	0.000812
0.008097	0.024165	0.046989	0.004073	0.000523	-0.00289	0.001375	0.002632	-0.01013	-0.00317	-0.00088	0.000447	-0.00138	0.000813
0.004054	0.040116	0.056105	0.001443	-0.00017	-0.00228	0.001474	0.002414	-0.00999	-0.00314	-0.00089	0.000444	-0.00139	0.000814
-0.01026	0.033185	0.054251	-0.00165	-0.00086	-0.00164	0.00156	0.002196	-0.00984	-0.00311	-0.00089	0.000441	-0.00139	0.000815
0.011569	0.005887	0.042953	-0.005	-0.00152	-0.00097	0.001633	0.001978	-0.00968	-0.00307	-0.0009	0.000438	-0.00139	0.000816
0.006648	-0.01987	0.024882	-0.00836	-0.00213	-0.0003	0.001693	0.001759	-0.00952	-0.00304	-0.0009	0.000435	-0.00139	0.000817
-0.00057	-0.03426	0.00271	-0.01145	-0.00266	0.000379	0.00174	0.001542	-0.00935	-0.00301	-0.00091	0.000432	-0.00139	0.000818
-0.01584	-0.0319	-0.02081	-0.01403	-0.00308	0.001047	0.001775	0.001325	-0.00917	-0.00298	-0.00092	0.000429	-0.0014	0.000819
-0.00567	-0.01136	-0.04234	-0.01584	-0.00337	0.0017	0.001798	0.00111	-0.00899	-0.00294	-0.00092	0.000426	-0.0014	0.00082
0.012146	0.014294	-0.05749	-0.01662	-0.00351	0.002332	0.00181	0.000897	-0.0088	-0.00291	-0.00093	0.000423	-0.0014	0.000821
0.019603	0.028782	-0.06203	-0.01611	-0.00348	0.002939	0.001811	0.000686	-0.00861	-0.00288	-0.00094	0.00042	-0.0014	0.000822
-0.01112	0.021338	-0.05334	-0.01413	-0.0033	0.00352	0.001802	0.000478	-0.0084	-0.00284	-0.00094	0.000416	-0.0014	0.000824
-0.02135	0.002798	-0.03479	-0.0109	-0.00298	0.004072	0.001783	0.000271	-0.0082	-0.00281	-0.00095	0.000413	-0.00141	0.000825
0.004228	-0.01303	-0.01121	-0.00675	-0.00254	0.004592	0.001756	6.77E-05	-0.00799	-0.00277	-0.00096	0.00041	-0.00141	0.000826
0.01376	-0.02217	0.013024	-0.00202	-0.002	0.005078	0.00172	-0.00013	-0.00777	-0.00273	-0.00096	0.000407	-0.00141	0.000827
0.019144	-0.02385	0.034348	0.002971	-0.00138	0.005528	0.001677	-0.00033	-0.00755	-0.0027	-0.00097	0.000404	-0.00141	0.000828
0.022793	-0.01876	0.050688	0.007888	-0.00069	0.005939	0.001627	-0.00053	-0.00733	-0.00266	-0.00097	0.000401	-0.00141	0.000829
0.020611	-0.00871	0.061053	0.012401	5.11E-05	0.00631	0.001571	-0.00072	-0.0071	-0.00262	-0.00098	0.000397	-0.00142	0.00083
0.015665	0.004062	0.064651	0.016182	0.000821	0.006636	0.001509	-0.0009	-0.00686	-0.00259	-0.00099	0.000394	-0.00142	0.000831

-0.00697	0.016156	0.060624	0.018964	0.001604	0.006917	0.001442	-0.00109	-0.00662	-0.00255	-0.00099	0.000391	-0.00142	0.000832
-0.02235	0.021166	0.048294	0.020748	0.002383	0.007149	0.001371	-0.00127	-0.00638	-0.00251	-0.001	0.000387	-0.00142	0.000833
-0.01363	0.013301	0.029007	0.021597	0.003142	0.007331	0.001296	-0.00145	-0.00613	-0.00247	-0.00101	0.000384	-0.00142	0.000834
0.001908	-0.00176	0.005851	0.021575	0.003861	0.00746	0.001218	-0.00162	-0.00589	-0.00243	-0.00101	0.000381	-0.00142	0.000835
0.021568	-0.01519	-0.01776	0.020743	0.004528	0.007533	0.001137	-0.00178	-0.00563	-0.00239	-0.00102	0.000378	-0.00143	0.000836
0.018459	-0.01986	-0.03843	0.01915	0.00514	0.007549	0.001055	-0.00195	-0.00538	-0.00235	-0.00102	0.000374	-0.00143	0.000837
0.002079	-0.01753	-0.05332	0.016844	0.005696	0.007504	0.000972	-0.00211	-0.00512	-0.00231	-0.00103	0.000371	-0.00143	0.000838
-0.02096	-0.00997	-0.06203	0.013873	0.006194	0.007398	0.000887	-0.00226	-0.00485	-0.00227	-0.00104	0.000367	-0.00143	0.000839
-0.00343	0.001266	-0.06501	0.010283	0.006635	0.007227	0.000801	-0.00241	-0.00459	-0.00223	-0.00104	0.000364	-0.00143	0.00084
0.002598	0.01211	-0.06287	0.006146	0.007018	0.006991	0.000715	-0.00255	-0.00432	-0.00218	-0.00105	0.000361	-0.00143	0.000841
0.020836	0.017833	-0.0563	0.001625	0.007341	0.006688	0.000628	-0.00269	-0.00405	-0.00214	-0.00105	0.000357	-0.00144	0.000842
0.004019	0.014963	-0.04574	-0.0031	0.007602	0.006318	0.000541	-0.00282	-0.00378	-0.0021	-0.00106	0.000354	-0.00144	0.000843
-0.00344	0.005534	-0.0309	-0.00783	0.007796	0.005881	0.000454	-0.00294	-0.00351	-0.00206	-0.00107	0.00035	-0.00144	0.000844
-0.02127	-0.00518	-0.01322	-0.0124	0.007921	0.00538	0.000367	-0.00306	-0.00323	-0.00201	-0.00107	0.000347	-0.00144	0.000845
-0.01987	-0.01227	0.005451	-0.01662	0.007969	0.004818	0.00028	-0.00317	-0.00296	-0.00197	-0.00108	0.000343	-0.00144	0.000846
-0.01537	-0.01448	0.023384	-0.02029	0.007936	0.004198	0.000193	-0.00328	-0.00268	-0.00193	-0.00108	0.00034	-0.00144	0.000847
-0.00852	-0.01261	0.039194	-0.02325	0.007812	0.003526	0.000107	-0.00338	-0.0024	-0.00188	-0.00109	0.000336	-0.00145	0.000848
0.002901	-0.00798	0.051791	-0.0253	0.00759	0.002808	2.10E-05	-0.00347	-0.00212	-0.00184	-0.00109	0.000333	-0.00145	0.000849
0.017651	-0.00219	0.060378	-0.02626	0.007261	0.002047	-6.38E-05	-0.00356	-0.00184	-0.00179	-0.0011	0.000329	-0.00145	0.00085
0.023471	0.003093	0.064221	-0.02594	0.006819	0.001251	-0.00015	-0.00363	-0.00156	-0.00175	-0.00111	0.000326	-0.00145	0.000851
0.003387	0.006548	0.062813	-0.02422	0.006258	0.000424	-0.00023	-0.0037	-0.00128	-0.0017	-0.00111	0.000322	-0.00145	0.000852
-0.00472	0.008283	0.056585	-0.02118	0.005584	-0.00043	-0.00031	-0.00377	-0.001	-0.00165	-0.00112	0.000319	-0.00145	0.000853
-0.01325	0.008656	0.046382	-0.01706	0.004808	-0.0013	-0.00039	-0.00382	-0.00072	-0.00161	-0.00112	0.000315	-0.00146	0.000854
-0.01657	0.007772	0.033327	-0.0121	0.003938	-0.00219	-0.00047	-0.00387	-0.00044	-0.00156	-0.00113	0.000311	-0.00146	0.000855
-0.02281	0.005754	0.018524	-0.00656	0.002983	-0.00308	-0.00055	-0.00391	-0.00016	-0.00151	-0.00113	0.000308	-0.00146	0.000856
-0.02624	0.002878	0.002923	-0.00068	0.001952	-0.00398	-0.00062	-0.00393	0.000124	-0.00147	-0.00114	0.000304	-0.00146	0.000857
-0.02067	-0.00047	-0.01256	0.005278	0.000855	-0.00488	-0.00069	-0.00396	0.000402	-0.00142	-0.00115	0.0003	-0.00146	0.000858
-0.00016	-0.00358	-0.027	0.011068	-0.0003	-0.00577	-0.00076	-0.00397	0.00068	-0.00137	-0.00115	0.000297	-0.00146	0.000859
0.025195	-0.0057	-0.03949	0.016438	-0.0015	-0.00665	-0.00083	-0.00397	0.000957	-0.00133	-0.00116	0.000293	-0.00146	0.00086
0.027382	-0.00586	-0.04936	0.021137	-0.00275	-0.00751	-0.0009	-0.00397	0.001232	-0.00128	-0.00116	0.000289	-0.00147	0.000861
0.016285	-0.00303	-0.0568	0.024914	-0.00402	-0.00835	-0.00096	-0.00395	0.001506	-0.00123	-0.00117	0.000286	-0.00147	0.000862
0.005808	0.001527	-0.06165	0.027517	-0.00531	-0.00916	-0.00102	-0.00393	0.001778	-0.00118	-0.00117	0.000282	-0.00147	0.000863
-0.00782	0.005804	-0.06351	0.028698	-0.00662	-0.00993	-0.00108	-0.00389	0.002049	-0.00113	-0.00118	0.000278	-0.00147	0.000864
-0.02052	0.007755	-0.06202	0.028286	-0.00793	-0.01067	-0.00113	-0.00385	0.002319	-0.00108	-0.00118	0.000274	-0.00147	0.000865
-0.02647	0.005523	-0.05732	0.02642	-0.00923	-0.01136	-0.00118	-0.0038	0.002587	-0.00103	-0.00119	0.000271	-0.00147	0.000866
-0.00418	-0.00113	-0.05031	0.02332	-0.01052	-0.012	-0.00122	-0.00374	0.002852	-0.00098	-0.00119	0.000267	-0.00148	0.000867
0.015764	-0.00871	-0.04187	0.019206	-0.01176	-0.01258	-0.00126	-0.00368	0.003116	-0.00093	-0.0012	0.000263	-0.00148	0.000868
0.02397	-0.01284	-0.03285	0.014299	-0.01295	-0.01311	-0.00129	-0.0036	0.003378	-0.00088	-0.0012	0.000259	-0.00148	0.000869
-0.00793	-0.0102	-0.02391	0.008819	-0.01406	-0.01356	-0.00131	-0.00352	0.003638	-0.00083	-0.00121	0.000255	-0.00148	0.00087
-0.02136	-0.00188	-0.01498	0.002988	-0.01509	-0.01395	-0.00133	-0.00343	0.003896	-0.00078	-0.00121	0.000251	-0.00148	0.000871
-0.02134	0.009402	-0.0055	-0.00297	-0.01602	-0.01426	-0.00134	-0.00334	0.004151	-0.00073	-0.00122	0.000248	-0.00148	0.000872
-0.01811	0.019536	0.005197	-0.00885	-0.01684	-0.01448	-0.00134	-0.00324	0.004403	-0.00068	-0.00122	0.000244	-0.00148	0.000873
-0.01464	0.022441	0.017745	-0.01441	-0.01751	-0.01462	-0.00133	-0.00313	0.004654	-0.00063	-0.00123	0.00024	-0.00148	0.000874
0.014579	0.012193	0.032205	-0.01945	-0.01804	-0.01467	-0.00131	-0.00302	0.004901	-0.00058	-0.00123	0.000236	-0.00149	0.000875
0.003172	-0.01067	0.046264	-0.02373	-0.01841	-0.01461	-0.00129	-0.0029	0.005146	-0.00053	-0.00124	0.000232	-0.00149	0.000876
-0.0111	-0.02863	0.057018	-0.02704	-0.01859	-0.01445	-0.00125	-0.00277	0.005388	-0.00048	-0.00124	0.000228	-0.00149	0.000877
0.009598	-0.02462	0.062042	-0.02916	-0.01857	-0.01419	-0.00121	-0.00264	0.005626	-0.00043	-0.00125	0.000224	-0.00149	0.000878
-0.00844	-0.00309	0.060888	-0.02993	-0.01834	-0.01381	-0.00115	-0.00251	0.005862	-0.00038	-0.00125	0.00022	-0.00149	0.000879
-0.00354	0.017731	0.053842	-0.02942	-0.01788	-0.01333	-0.00109	-0.00237	0.006095	-0.00033	-0.00126	0.000216	-0.00149	0.000879
0.007789	0.032112	0.041253	-0.02775	-0.01721	-0.01276	-0.00102	-0.00223	0.006324	-0.00027	-0.00126	0.000212	-0.00149	0.00088
-0.00845	0.037041	0.023463	-0.02504	-0.01634	-0.01209	-0.00095	-0.00208	0.00655	-0.00022	-0.00127	0.000208	-0.0015	0.000881
-0.00725	0.027021	0.001374	-0.02142	-0.01528	-0.01134	-0.00087	-0.00193	0.006772	-0.00017	-0.00127	0.000204	-0.0015	0.000882
0.005915	0.006128	-0.02174	-0.01702	-0.01403	-0.01051	-0.00078	-0.00178	0.006991	-0.00012	-0.00127	0.0002	-0.0015	0.000883
0.013547	-0.01716	-0.04203	-0.01195	-0.01262	-0.0096	-0.00068	-0.00163	0.007206	-6.63E-05	-0.00128	0.000196	-0.0015	0.000884
0.011527	-0.03551	-0.05563	-0.00633	-0.01104	-0.00863	-0.00059	-0.00147	0.007418	-1.41E-05	-0.00128	0.000192	-0.0015	0.000885
-0.01788	-0.04069	-0.0589	-0.00029	-0.00931	-0.00759	-0.00048	-0.00131	0.007625	3.81E-05	-0.00129	0.000188	-0.0015	0.000886
-0.01763	-0.02675	-0.05019	0.005964	-0.00745	-0.0065	-0.00038	-0.00115	0.007828	9.04E-05	-0.00129	0.000184	-0.0015	0.000887
-0.00099	-0.00133	-0.03253	0.012135	-0.00545	-0.00536	-0.00026	-0.00099	0.008027	0.000143	-0.0013	0.00018	-0.0015	0.000888
0.012278	0.024468	-0.01009	0.017877	-0.00334	-0.00417	-0.00015	-0.00083	0.008222	0.000195	-0.0013	0.000176	-0.00151	0.000889
0.023304	0.039541	0.012995	0.022848	-0.00112	-0.00294	-3.15E-05	-0.00066	0.008413	0.000248	-0.0013	0.000172	-0.00151	0.00089
-0.02329	0.038096	0.032786	0.026707	0.001197	-0.00167	8.85E-05	-0.0005	0.008599	0.0003	-0.00131	0.000168	-0.00151	0.000891
-0.00111	0.031213	0.046561	0.029111	0.003603	-0.00038	0.00021	-0.00033	0.008781	0.000353	-0.00131	0.000164	-0.00151	0.000891
0.008936	0.017569	0.053405	0.029718	0.006085	0.00094	0.000334	-0.00017	0.008958	0.000405	-0.00132	0.00016	-0.00151	0.000892
0.020455	-0.00719	0.053519	0.028262	0.008629	0.002275	0.000458	-6.96E-06	0.00913	0.000458	-0.00132	0.000155	-0.00151	0.000893
-0.01932	-0.03437	0.046976	0.02483	0.011211	0.003622	0.000584	0.000156	0.009298	0.000511	-0.00132	0.000151	-0.00151	0.000894
0.018502	-0.03333	0.033593	0.019791	0.013801	0.004975	0.000709	0.000317	0.00946	0.000563	-0.00133	0.000147	-0.00151	0.000895
-0.0182	0.012178	0.014273	0.01357	0.016364	0.006329	0.000834	0.000478	0.009618	0.000616	-0.00133	0.000143	-0.00152	0.000896
0.01848	0.0306	-0.00606	0.006596	0.018863	0.007678	0.000958	0.000636	0.00977	0.000669	-0.00134	0.000139	-0.00152	0.000897
-0.01927	0.001931	-0.02282	-0.00071	0.021264	0.009016	0.001081	0.000792	0.009917	0.000721	-0.00134	0.000135	-0.00152	0.000898
-0.00257	-0.02336	-0.03503	-0.00791	0.02353	0.010338	0.001202	0.000946	0.010058	0.000774	-0.00134	0.00013	-0.00152	0.000899
0.021906	-0.02725	-0.04261	-0.01458	0.025626	0.011638	0.001322	0.001097	0.010194	0.000827	-0.00135	0.000126	-0.00152	0.0009
-0.00667	-0.01419	-0.04567	-0.0203	0.027515	0.01291	0.001438	0.001245	0.010325	0.000879	-0.00135	0.000122	-0.00152	0.0009
-0.02363	0.003961	-0.04521	-0.02465	0.029161	0.01415	0.001552	0.00139	0.01045	0.000932	-0.00135	0.000118	-0.00152	0.000901
-0.02704	0.018169	-0.04234	-0.02734	0.030534	0.01535	0.001662	0.001531	0.010569	0.000984	-0.00136	0.000113	-0.00152	0.000902
-0.00286	0.024014	-0.03783	-0.02841	0.031614	0.016506	0.001768	0.001668	0.010682	0.001037	-0.00136	0.000109	-0.00152	0.000903
0.022347	0.022656	-0.03231	-0.02803	0.032394	0.017612	0.00187	0.0018	0.010789	0.001089	-0.00136	0.000105	-0.00153	0.000904
0.031788	0.016591	-0.02618	-0.02639	0.032874	0.018662	0.001967	0.001928	0.01089	0.001142	-0.00137	0.0001	-0.00153	0.000905
-0.00055	0.008878	-0.01964	-0.02367	0.033062	0.019651	0.002059	0.002051	0.010985	0.001194	-0.00137	9.62E-05	-0.00153	0.000906
-0.01559	0.001154	-0.01286	-0.02006	0.032961	0.020573	0.002145	0.002169	0.011073	0.001246	-0.00137	9.19E-05	-0.00153	0.000907
-0.03481	-0.00535	-0.006	-0.01574	0.032577	0.021422	0.002225	0.002281	0.011155	0.001298	-0.00138	8.75E-05	-0.00153	0.000908
-0.00987	-0.0098	0.000783	-0.01091	0.031914	0.022195	0.002298	0.002387	0.011231	0.001351	-0.00138	8.32E-05	-0.00153	0.000908
0.026985	-0.01281	0.007327	-0.00575	0.030975	0.022889	0.002364	0.002487	0.0113	0.001403	-0.00138	7.88E-05	-0.00153	0.000909
0.034776	-0.01539	0.013473	-0.00044	0.029761	0.023503	0.002423	0.002581	0.011362	0.001454	-0.00139	7.45E-05	-0.00153	0.00091
0.03499	-0.01819	0.019059	0.004818	0.02827	0.024038	0.002473	0.002667	0.011417	0.001506	-0.00139	7.01E-05	-0.00153	0.000911
0.031456	-0.02035	0.02388	0.009844	0.0265	0.024495	0.002515	0.002747	0.011465	0.001558	-0.00139	6.57E-05	-0.00153	0.000912
-0.00678	-0.02081	0.02753	0.014451	0.02445	0.024878	0.002549	0.002819	0.011507	0.00161	-0.0014	6.13E-05	-0.00154	0.000913
-0.01986	-0.01932	0.029443	0.01845	0.022117	0.025186	0.002572	0.002883	0.011541	0.001661	-0.0014	5.69E-05	-0.00154	0.000914
-0.02136	-0.01553	0.029041	0.021655	0.0195	0.025423	0.002586	0.002939	0.011568	0.001713	-0.0014	5.25E-05	-0.00154	0.000914
-0.0252	-0.00809	0.026096	0.023917	0.016599	0.02559	0.00259	0.002986	0.011587	0.001764	-0.0014	4.81E-05	-0.00154	0.000915
-0.02619	0.003267	0.020777	0.025219	0.013427	0.025689	0.002583	0.003025	0.0116	0.001815	-0.00141	4.37E-05	-0.00154	0.000916
-0.02069	0.014718	0.013327	0.025583	0.010001	0.025722	0.002563	0.003056	0.011605	0.001866	-0.00141	3.92E-05	-0.00154	0.000917
-0.01141	0.020131	0.003976	0.025026	0.006337	0.025689	0.002531	0.003078	0.011602	0.001917	-0.00141	3.48E-05	-0.00154	0.000918
0.017891	0.012622	-0.00666	0.023541	0.002475	0.025593	0.002486	0.003092	0.011593	0.001967	-0.00141	3.03E-05	-0.00154	0.000919

-0.01466	-0.00847	-0.01645	0.021118	-0.00154	0.025432	0.002429	0.003098	0.011576	0.002018	-0.00142	2.58E-05	-0.00154	0.00092
-0.0066	-0.01959	-0.02286	0.017744	-0.00565	0.025207	0.002361	0.003096	0.011553	0.002068	-0.00142	2.13E-05	-0.00154	0.00092
0.008111	-0.01558	-0.02384	0.013408	-0.00983	0.024918	0.002282	0.003087	0.011522	0.002118	-0.00142	1.69E-05	-0.00154	0.000921
-0.0052	-0.00352	-0.01943	0.008159	-0.01401	0.024565	0.002192	0.00307	0.011485	0.002168	-0.00142	1.24E-05	-0.00155	0.000922
0.002845	0.001835	-0.01116	0.00229	-0.01816	0.024148	0.002093	0.003047	0.011441	0.002218	-0.00143	7.84E-06	-0.00155	0.000923
-0.00126	0.010659	-0.00077	-0.00384	-0.02222	0.023668	0.001984	0.003016	0.01139	0.002267	-0.00143	3.32E-06	-0.00155	0.000924
3.38E-05	0.01858	0.009953	-0.00986	-0.02615	0.023124	0.001866	0.002979	0.011333	0.002317	-0.00143	-1.21E-06	-0.00155	0.000925
0.000853	0.01566	0.018937	-0.01524	-0.02991	0.022516	0.001739	0.002936	0.01127	0.002366	-0.00143	-5.76E-06	-0.00155	0.000925
-0.00209	-4.68E-05	0.023754	-0.01953	-0.03345	0.021845	0.001605	0.002887	0.0112	0.002415	-0.00143	-1.03E-05	-0.00155	0.000926
0.004234	-0.01615	0.023002	-0.0223	-0.03671	0.02111	0.001463	0.002831	0.011124	0.002463	-0.00144	-1.49E-05	-0.00155	0.000927
-0.00714	-0.01816	0.015907	-0.02353	-0.03966	0.020313	0.001314	0.00277	0.011043	0.002512	-0.00144	-1.94E-05	-0.00155	0.000928
-0.01056	-0.00836	0.002963	-0.02356	-0.04224	0.019452	0.001158	0.002704	0.010955	0.00256	-0.00144	-2.40E-05	-0.00155	0.000929
0.00286	0.007656	-0.01177	-0.02283	-0.04443	0.018528	0.000996	0.002633	0.010861	0.002608	-0.00144	-2.86E-05	-0.00155	0.00093
0.005679	0.01818	-0.02312	-0.02175	-0.04621	0.017541	0.000829	0.002556	0.010762	0.002656	-0.00144	-3.32E-05	-0.00155	0.00093
0.017885	0.018152	-0.02696	-0.0207	-0.0476	0.016492	0.000657	0.002475	0.010657	0.002703	-0.00144	-3.78E-05	-0.00155	0.000931
0.026111	0.008828	-0.02363	-0.01997	-0.04861	0.01538	0.00048	0.002389	0.010547	0.002751	-0.00145	-4.24E-05	-0.00156	0.000932
-0.0034	-0.00611	-0.01496	-0.01945	-0.04925	0.014205	0.000299	0.002299	0.010431	0.002798	-0.00145	-4.71E-05	-0.00156	0.000933
-0.03264	-0.01769	-0.00292	-0.0189	-0.04952	0.012968	0.000115	0.002205	0.01031	0.002845	-0.00145	-5.17E-05	-0.00156	0.000934
-0.02521	-0.01815	0.010481	-0.01809	-0.04944	0.011668	-7.32E-05	0.002107	0.010184	0.002891	-0.00145	-5.63E-05	-0.00156	0.000934
-0.01935	-0.01	0.022818	-0.01681	-0.04902	0.010308	-0.00026	0.002006	0.010053	0.002937	-0.00145	-6.10E-05	-0.00156	0.000935
0.00358	0.001882	0.031425	-0.01482	-0.04826	0.008888	-0.00046	0.001901	0.009917	0.002983	-0.00145	-6.56E-05	-0.00156	0.000936
0.029417	0.012655	0.033609	-0.01191	-0.0472	0.007413	-0.00065	0.001793	0.009776	0.003029	-0.00145	-7.03E-05	-0.00156	0.000937
0.039188	0.017232	0.027087	-0.00804	-0.04584	0.005888	-0.00085	0.001683	0.009631	0.003075	-0.00146	-7.50E-05	-0.00156	0.000938
0.01794	0.011649	0.01187	-0.00344	-0.04423	0.004317	-0.00104	0.001569	0.009481	0.00312	-0.00146	-7.97E-05	-0.00156	0.000938
0.001256	0.00012	-0.00766	0.001557	-0.04237	0.002707	-0.00124	0.001453	0.009326	0.003165	-0.00146	-8.44E-05	-0.00156	0.000939
-0.00532	-0.01103	-0.02612	0.006653	-0.0403	0.001062	-0.00143	0.001335	0.009167	0.003209	-0.00146	-8.91E-05	-0.00156	0.00094
-0.03296	-0.01549	-0.03811	0.011533	-0.03804	-0.00061	-0.00163	0.001215	0.009004	0.003254	-0.00146	-9.38E-05	-0.00156	0.000941
-0.01264	-0.00921	-0.03963	0.015949	-0.03561	-0.00231	-0.00182	0.001093	0.008837	0.003298	-0.00146	-9.85E-05	-0.00156	0.000942
-0.01033	0.002699	-0.03227	0.019858	-0.03305	-0.00402	-0.00201	0.00097	0.008666	0.003341	-0.00146	-0.0001	-0.00156	0.000942
0.022782	0.012854	-0.01875	0.023031	-0.03036	-0.00575	-0.0022	0.000846	0.008491	0.003385	-0.00146	-0.00011	-0.00156	0.000943
0.022711	0.014281	-0.00175	0.025178	-0.02757	-0.00748	-0.00239	0.00072	0.008312	0.003428	-0.00146	-0.00011	-0.00157	0.000944
0.006033	0.004202	0.016073	0.026011	-0.02472	-0.00922	-0.00257	0.000594	0.00813	0.003471	-0.00146	-0.00012	-0.00157	0.000945
-0.00711	-0.00941	0.031775	0.025235	-0.02182	-0.01095	-0.00275	0.000467	0.007944	0.003513	-0.00146	-0.00012	-0.00157	0.000945
-0.00779	-0.01513	0.041825	0.022547	-0.01888	-0.01267	-0.00293	0.000339	0.007755	0.003556	-0.00146	-0.00013	-0.00157	0.000946
-0.00568	-0.00509	0.044062	0.017651	-0.01591	-0.01437	-0.0031	0.000212	0.007562	0.003597	-0.00146	-0.00013	-0.00157	0.000947
0.000557	0.010819	0.039943	0.010487	-0.01291	-0.01606	-0.00327	8.44E-05	0.007366	0.003639	-0.00146	-0.00014	-0.00157	0.000948
0.002062	0.018392	0.031303	0.001798	-0.00989	-0.01771	-0.00343	-4.27E-05	0.007167	0.00368	-0.00146	-0.00014	-0.00157	0.000948
-0.00235	0.008717	0.020365	-0.00748	-0.00686	-0.01934	-0.00358	-0.00017	0.006965	0.003721	-0.00146	-0.00015	-0.00157	0.000949
0.003986	-0.00626	0.007856	-0.0164	-0.00383	-0.02093	-0.00373	-0.00029	0.00676	0.003761	-0.00146	-0.00015	-0.00157	0.00095
-0.00675	-0.01522	-0.00594	-0.02402	-0.00079	-0.02247	-0.00387	-0.00042	0.006552	0.003802	-0.00146	-0.00016	-0.00157	0.000951
0.010073	-0.02622	-0.02073	-0.02941	0.002229	-0.02397	-0.004	-0.00054	0.006342	0.003841	-0.00146	-0.00016	-0.00157	0.000952
-0.01315	0.001401	-0.03506	-0.03163	0.005238	-0.02541	-0.00413	-0.00067	0.006129	0.003881	-0.00146	-0.00017	-0.00157	0.000952
0.015285	0.030843	-0.0428	-0.02974	0.008232	-0.0268	-0.00424	-0.00079	0.005914	0.00392	-0.00146	-0.00017	-0.00157	0.000953
0.014929	0.006477	-0.0386	-0.02324	0.011245	-0.02812	-0.00435	-0.0009	0.005696	0.003959	-0.00146	-0.00018	-0.00157	0.000954
-0.01562	-0.03267	-0.0251	-0.01323	0.014306	-0.02936	-0.00445	-0.00102	0.005477	0.003997	-0.00146	-0.00018	-0.00157	0.000955
0.013898	-0.03698	-0.00631	-0.00118	0.017439	-0.03054	-0.00453	-0.00113	0.005255	0.004035	-0.00146	-0.00018	-0.00157	0.000955
0.006961	-0.01362	0.014904	0.011416	0.020671	-0.03163	-0.00461	-0.00124	0.005031	0.004073	-0.00146	-0.00019	-0.00157	0.000956
-0.00368	0.018484	0.031896	0.02308	0.024027	-0.03263	-0.00468	-0.00135	0.004805	0.00411	-0.00146	-0.00019	-0.00157	0.000957
-0.00569	0.040272	0.036935	0.032326	0.027533	-0.03354	-0.00473	-0.00146	0.004578	0.004147	-0.00146	-0.0002	-0.00158	0.000958
0.003865	0.036981	0.025189	0.037934	0.031214	-0.03436	-0.00477	-0.00156	0.004349	0.004183	-0.00146	-0.0002	-0.00158	0.000958
-0.00338	0.006557	0.003434	0.03975	0.035096	-0.03507	-0.0048	-0.00166	0.004119	0.004219	-0.00146	-0.00021	-0.00158	0.000959
0.004427	-0.02862	-0.01866	0.037912	0.039176	-0.03567	-0.00482	-0.00175	0.003887	0.004255	-0.00146	-0.00021	-0.00158	0.00096
-0.00684	-0.03873	-0.03141	0.032665	0.043348	-0.03615	-0.00482	-0.00184	0.003654	0.00429	-0.00146	-0.00022	-0.00158	0.00096
0.01016	-0.02445	-0.02794	0.024267	0.04751	-0.03652	-0.00481	-0.00193	0.003419	0.004325	-0.00145	-0.00022	-0.00158	0.000961
-0.01028	0.005503	-0.01274	0.013228	0.05157	-0.03676	-0.00479	-0.00201	0.003184	0.004359	-0.00145	-0.00023	-0.00158	0.000962
-0.01719	0.030451	0.006257	0.000729	0.055438	-0.03687	-0.00474	-0.00209	0.002947	0.004393	-0.00145	-0.00023	-0.00158	0.000963
0.014992	0.031853	0.020951	-0.01188	0.05902	-0.03684	-0.00469	-0.00216	0.00271	0.004427	-0.00145	-0.00024	-0.00158	0.000963
0.021317	0.001792	0.02455	-0.02327	0.062225	-0.03667	-0.00461	-0.00223	0.002472	0.00446	-0.00145	-0.00024	-0.00158	0.000964
-0.02126	-0.02762	0.015791	-0.03237	0.064962	-0.03635	-0.00452	-0.0023	0.002234	0.004493	-0.00145	-0.00025	-0.00158	0.000965
0.019631	-0.01042	-0.00209	-0.03938	0.067139	-0.03588	-0.00442	-0.00236	0.001995	0.004525	-0.00145	-0.00025	-0.00158	0.000966
-0.01678	0.023693	-0.0177	-0.04479	0.068663	-0.03524	-0.0043	-0.00242	0.001755	0.004557	-0.00145	-0.00026	-0.00158	0.000966
0.013307	0.020816	-0.02075	-0.04909	0.069443	-0.03443	-0.00417	-0.00247	0.001516	0.004588	-0.00144	-0.00026	-0.00158	0.000967
0.006255	0.002533	-0.01338	-0.05265	0.069387	-0.03344	-0.00402	-0.00252	0.001276	0.004619	-0.00144	-0.00027	-0.00158	0.000968
-0.0066	-0.01341	-0.00132	-0.05528	0.068408	-0.03227	-0.00387	-0.00257	0.001036	0.00465	-0.00144	-0.00027	-0.00158	0.000968
0.004148	-0.01843	0.009934	-0.05666	0.066439	-0.03093	-0.0037	-0.00261	0.000796	0.00468	-0.00144	-0.00028	-0.00158	0.000969
-0.00159	-0.01453	0.017065	-0.05655	0.063484	-0.02942	-0.00351	-0.00265	0.000557	0.004709	-0.00144	-0.00028	-0.00158	0.00097
-0.00179	-0.00541	0.019349	-0.05477	0.059602	-0.02776	-0.00332	-0.00269	0.000317	0.004738	-0.00143	-0.00029	-0.00158	0.000971
-0.00034	0.007144	0.016698	-0.05122	0.054874	-0.02596	-0.00312	-0.00273	7.84E-05	0.004767	-0.00143	-0.00029	-0.00158	0.000971
0.002272	0.01724	0.009369	-0.04618	0.049391	-0.02403	-0.00291	-0.00276	-0.00016	0.004795	-0.00143	-0.0003	-0.00158	0.000972
-0.00325	0.017976	-0.00166	-0.04001	0.043245	-0.02199	-0.00268	-0.00279	-0.0004	0.004823	-0.00143	-0.0003	-0.00158	0.000973
0.003937	0.006089	-0.01299	-0.03308	0.036529	-0.01983	-0.00245	-0.00281	-0.00063	0.00485	-0.00142	-0.00031	-0.00158	0.000973
0.00608	-0.01042	-0.0209	-0.02574	0.029335	-0.01759	-0.00222	-0.00283	-0.00087	0.004877	-0.00142	-0.00031	-0.00158	0.000974
-0.00779	-0.02076	-0.02192	-0.01822	0.021756	-0.01526	-0.00197	-0.00285	-0.00111	0.004903	-0.00142	-0.00032	-0.00158	0.000975
-0.00673	-0.01437	-0.01432	-0.01029	0.013884	-0.01285	-0.00172	-0.00287	-0.00134	0.004929	-0.00142	-0.00032	-0.00158	0.000975
-0.00538	0.005388	-0.00136	-0.00187	0.005812	-0.01039	-0.00146	-0.00289	-0.00157	0.004954	-0.00141	-0.00033	-0.00158	0.000976
0.002251	0.024389	0.012478	0.007033	-0.00237	-0.00788	-0.0012	-0.0029	-0.0018	0.004979	-0.00141	-0.00033	-0.00158	0.000977
0.015223	0.02665	0.022698	0.016439	-0.01056	-0.00532	-0.00093	-0.00291	-0.00203	0.005003	-0.00141	-0.00034	-0.00159	0.000977
-0.01698	0.002301	0.02573	0.02629	-0.01868	-0.00275	-0.00066	-0.00292	-0.00226	0.005026	-0.00141	-0.00034	-0.00159	0.000978
0.018556	-0.02886	0.021676	0.036261	-0.02663	-0.00015	-0.00038	-0.00293	-0.00249	0.00505	-0.0014	-0.00035	-0.00159	0.000979
-0.01989	-0.03127	0.011608	0.045909	-0.03432	0.002442	-0.0001	-0.00293	-0.00272	0.005072	-0.0014	-0.00035	-0.00159	0.000979
0.001174	-0.00955	-0.00285	0.054882	-0.04165	0.005031	0.000181	-0.00293	-0.00294	0.005094	-0.0014	-0.00036	-0.00159	0.00098
0.010203	0.018571	-0.01753	0.062858	-0.04854	0.0076	0.000464	-0.00294	-0.00316	0.005116	-0.00139	-0.00036	-0.00159	0.000981
0.022266	0.034886	-0.02763	0.069511	-0.05489	0.010138	0.000749	-0.00293	-0.00338	0.005137	-0.00139	-0.00037	-0.00159	0.000981
0.022277	0.026575	-0.02967	0.074721	-0.0606	0.012635	0.001034	-0.00293	-0.0036	0.005158	-0.00139	-0.00037	-0.00159	0.000982
0.006581	0.00237	-0.0253	0.078953	-0.06559	0.015077	0.001319	-0.00293	-0.00381	0.005178	-0.00138	-0.00038	-0.00159	0.000983
-0.00963	-0.02357	-0.01656	0.081955	-0.06978	0.017455	0.001603	-0.00292	-0.00402	0.005197	-0.00138	-0.00038	-0.00159	0.000983
-0.02106	-0.03707	-0.00529	0.08328	-0.0731	0.019757	0.001886	-0.00292	-0.00423	0.005216	-0.00137	-0.00039	-0.00159	0.000984
-0.01123	-0.02846	0.006734	0.082503	-0.07553	0.02197	0.002167	-0.00291	-0.00444	0.005234	-0.00137	-0.00039	-0.00159	0.000985
-0.00857	-0.00611	0.017893	0.079222	-0.07708	0.024085	0.002445	-0.0029	-0.00464	0.005252	-0.00137	-0.0004	-0.00159	0.000985
0.017693	0.017077	0.026601	0.073041	-0.07773	0.026092	0.00272	-0.00289	-0.00485	0.005269	-0.00136	-0.0004	-0.00159	0.000986
-0.0018	0.030785	0.031315	0.063524	-0.07751	0.027983	0.002992	-0.00287	-0.00505	0.005286	-0.00136	-0.00041	-0.00159	0.000987
-0.01469	0.035229	0.030723	0.05022	-0.0764	0.029755	0.003259	-0.00286	-0.00524	0.005302	-0.00135	-0.00041	-0.00159	0.000987
-0.01433	0.033874	0.024316	0.033401	-0.07443	0.031406	0.003521	-0.00284	-0.00543	0.005317	-0.00135	-0.00042	-0.00159	0.000988

-0.00757	0.027511	0.013689	0.014093	-0.0716	0.032932	0.003777	-0.00283	-0.00562	0.005332	-0.00135	-0.00043	-0.00159	0.000989
0.010148	0.016167	0.000944	-0.00652	-0.06793	0.034331	0.004027	-0.00281	-0.00581	0.005346	-0.00134	-0.00043	-0.00159	0.000989
0.005759	0.003113	-0.01182	-0.02726	-0.06342	0.0356	0.00427	-0.00279	-0.00599	0.00536	-0.00134	-0.00044	-0.00159	0.00099
0.000983	-0.01176	-0.0225	-0.04694	-0.05808	0.036736	0.004506	-0.00277	-0.00618	0.005373	-0.00133	-0.00044	-0.00159	0.000991
-0.00705	-0.02476	-0.02899	-0.06439	-0.05191	0.037735	0.004733	-0.00275	-0.00635	0.005385	-0.00133	-0.00045	-0.00159	0.000991
0.00659	-0.02648	-0.0297	-0.07841	-0.04494	0.038596	0.004952	-0.00273	-0.00653	0.005397	-0.00132	-0.00045	-0.00159	0.000992
-0.00644	-0.00136	-0.02555	-0.08792	-0.03717	0.039316	0.005161	-0.00271	-0.0067	0.005409	-0.00132	-0.00046	-0.00159	0.000992
0.006489	0.023345	-0.01975	-0.09232	-0.02861	0.03989	0.005361	-0.00269	-0.00686	0.005419	-0.00131	-0.00046	-0.00159	0.000993
0.004638	0.017706	-0.01485	-0.09167	-0.01931	0.040318	0.00555	-0.00266	-0.00703	0.005429	-0.00131	-0.00047	-0.00159	0.000994
-0.00669	-0.00264	-0.01127	-0.08621	-0.00944	0.040595	0.005727	-0.00264	-0.00719	0.005439	-0.0013	-0.00047	-0.00159	0.000994
0.002014	-0.01541	-0.00931	-0.07636	0.000792	0.04072	0.005893	-0.00261	-0.00734	0.005447	-0.0013	-0.00048	-0.00159	0.000995
0.006338	-0.01703	-0.00825	-0.06289	0.011188	0.040688	0.006047	-0.00258	-0.0075	0.005456	-0.00129	-0.00048	-0.00159	0.000996
-0.0058	-0.00831	-0.00715	-0.04659	0.021547	0.040498	0.006188	-0.00255	-0.00764	0.005463	-0.00129	-0.00049	-0.00159	0.000996
-0.00265	0.003879	-0.00463	-0.02826	0.031668	0.040144	0.006316	-0.00253	-0.00779	0.00547	-0.00128	-0.00049	-0.00159	0.000997
0.001087	0.012539	0.000849	-0.00871	0.041351	0.039624	0.006432	-0.0025	-0.00793	0.005476	-0.00127	-0.0005	-0.00159	0.000997
0.003484	0.012087	0.010143	0.011257	0.050394	0.038935	0.006536	-0.00246	-0.00807	0.005482	-0.00127	-0.0005	-0.00159	0.000998
-0.00288	0.002137	0.020954	0.030841	0.058598	0.038072	0.006627	-0.00243	-0.0082	0.005487	-0.00126	-0.00051	-0.00159	0.000999
0.002546	-0.00845	0.028122	0.049236	0.065761	0.037031	0.006707	-0.0024	-0.00833	0.005491	-0.00126	-0.00051	-0.00159	0.000999
-0.00248	-0.00272	0.026758	0.06561	0.071682	0.03581	0.006775	-0.00236	-0.00846	0.005495	-0.00125	-0.00052	-0.00159	0.001
0.002613	0.006151	0.016877	0.078869	0.076161	0.034405	0.006832	-0.00233	-0.00859	0.005497	-0.00124	-0.00052	-0.00159	0.001001
-0.00285	0.005529	0.000868	0.087521	0.078996	0.032811	0.006878	-0.00229	-0.0087	0.0055	-0.00124	-0.00053	-0.00159	0.001001
-0.00039	0.002656	-0.01631	0.09065	0.079986	0.031027	0.006912	-0.00226	-0.00882	0.005501	-0.00123	-0.00053	-0.00159	0.001002
0.003151	-0.00023	-0.02911	0.087453	0.078991	0.029058	0.006936	-0.00222	-0.00893	0.005502	-0.00122	-0.00054	-0.00159	0.001002
0.003934	-0.003	-0.03187	0.07684	0.07615	0.026917	0.006949	-0.00218	-0.00904	0.005502	-0.00122	-0.00054	-0.00159	0.001003
-0.00318	-0.00463	-0.02017	0.058295	0.071666	0.024622	0.006952	-0.00214	-0.00914	0.005502	-0.00121	-0.00055	-0.00159	0.001004
-0.00507	0.001153	0.002525	0.034008	0.065746	0.022188	0.006945	-0.0021	-0.00925	0.005501	-0.0012	-0.00055	-0.00159	0.001004
0.005852	0.007113	0.025245	0.007245	0.058595	0.019632	0.006928	-0.00206	-0.00934	0.005499	-0.0012	-0.00056	-0.00159	0.001005
-0.00683	-0.0043	0.036849	-0.0189	0.050419	0.01697	0.006901	-0.00202	-0.00944	0.005496	-0.00119	-0.00056	-0.00159	0.001005
0.008044	-0.01199	0.030927	-0.04189	0.041423	0.014217	0.006865	-0.00198	-0.00953	0.005493	-0.00118	-0.00057	-0.00159	0.001006
-0.00942	0.012253	0.007372	-0.0605	0.031813	0.011392	0.006819	-0.00193	-0.00961	0.005489	-0.00118	-0.00058	-0.00159	0.001006
-0.00539	0.019146	-0.01939	-0.07388	0.021794	0.008508	0.006764	-0.00189	-0.00969	0.005484	-0.00117	-0.00058	-0.00159	0.001007
0.007693	0.001295	-0.03827	-0.08114	0.011572	0.005584	0.006699	-0.00184	-0.00977	0.005479	-0.00116	-0.00059	-0.00159	0.001008
0.013017	-0.02522	-0.04514	-0.08141	0.001352	0.002635	0.006626	-0.0018	-0.00985	0.005473	-0.00115	-0.00059	-0.00159	0.001008
-0.01345	-0.0327	-0.03788	-0.07426	-0.00868	-0.00032	0.006545	-0.00175	-0.00992	0.005466	-0.00115	-0.0006	-0.00159	0.001009
0.013284	0.002744	-0.01791	-0.06113	-0.0184	-0.00327	0.006454	-0.0017	-0.00999	0.005458	-0.00114	-0.0006	-0.00159	0.001009
-0.00826	0.033541	0.008526	-0.04388	-0.0277	-0.0062	0.006356	-0.00166	-0.01005	0.00545	-0.00113	-0.00061	-0.00159	0.00101
-0.0114	0.046718	0.03416	-0.02441	-0.0365	-0.00909	0.00625	-0.00161	-0.01011	0.005441	-0.00112	-0.00061	-0.00159	0.00101
0.009971	0.051716	0.051719	-0.00458	-0.04468	-0.01192	0.006136	-0.00156	-0.01017	0.005431	-0.00112	-0.00062	-0.00159	0.001011
-0.00844	0.048703	0.055615	0.013721	-0.05216	-0.01467	0.006015	-0.0015	-0.01022	0.005421	-0.00111	-0.00062	-0.00159	0.001012
-0.00582	0.015652	0.0472	0.02899	-0.05881	-0.01734	0.005886	-0.00145	-0.01027	0.005409	-0.0011	-0.00063	-0.00159	0.001012
0.00569	-0.03123	0.030287	0.041183	-0.06456	-0.01991	0.005751	-0.0014	-0.01032	0.005397	-0.00109	-0.00063	-0.00159	0.001013
-0.00472	-0.06516	0.008978	0.050528	-0.06929	-0.02235	0.005608	-0.00135	-0.01036	0.005385	-0.00108	-0.00064	-0.00158	0.001013
0.004127	-0.0704	-0.0126	0.057225	-0.07291	-0.02465	0.005459	-0.00129	-0.0104	0.005371	-0.00107	-0.00064	-0.00158	0.001014
-0.00388	-0.06084	-0.03104	0.061489	-0.07533	-0.0268	0.005304	-0.00124	-0.01044	0.005357	-0.00107	-0.00065	-0.00158	0.001014
0.003885	-0.05469	-0.04577	0.06359	-0.07652	-0.02878	0.005143	-0.00118	-0.01047	0.005342	-0.00106	-0.00065	-0.00158	0.001015
-0.00404	-0.04009	-0.05689	0.063813	-0.07645	-0.03058	0.004976	-0.00113	-0.0105	0.005326	-0.00105	-0.00066	-0.00158	0.001015
0.004257	-0.00573	-0.06412	0.062451	-0.07512	-0.03219	0.004804	-0.00107	-0.01053	0.005309	-0.00104	-0.00066	-0.00158	0.001016
-0.00446	0.041913	-0.06708	0.059848	-0.07254	-0.03361	0.004626	-0.00101	-0.01055	0.005292	-0.00103	-0.00067	-0.00158	0.001017
0.001458	0.078354	-0.06531	0.056322	-0.06881	-0.03486	0.004443	-0.00096	-0.01057	0.005274	-0.00102	-0.00067	-0.00158	0.001017
0.004752	0.0805	-0.05794	0.051826	-0.06406	-0.03593	0.004255	-0.0009	-0.01059	0.005255	-0.00101	-0.00068	-0.00158	0.001018
-0.00484	0.047245	-0.04467	0.046431	-0.05841	-0.03683	0.004063	-0.00084	-0.0106	0.005235	-0.001	-0.00069	-0.00158	0.001018
0.004896	0.004734	-0.02698	0.0403	-0.05199	-0.03757	0.003866	-0.00078	-0.01061	0.005215	-0.001	-0.00069	-0.00158	0.001019
-0.00341	-0.02939	-0.00682	0.033605	-0.04491	-0.03816	0.003665	-0.00072	-0.01062	0.005194	-0.00099	-0.0007	-0.00158	0.001019
-0.00497	-0.05316	0.013885	0.026521	-0.0373	-0.03859	0.00346	-0.00066	-0.01062	0.005172	-0.00098	-0.0007	-0.00158	0.00102
0.005009	-0.06928	0.033216	0.019218	-0.02927	-0.03888	0.003251	-0.0006	-0.01062	0.005149	-0.00097	-0.00071	-0.00158	0.00102
0.004979	-0.07473	0.049268	0.011865	-0.02095	-0.03903	0.003039	-0.00054	-0.01062	0.005125	-0.00096	-0.00071	-0.00158	0.001021
0.003625	-0.06978	0.060505	0.004631	-0.01246	-0.03905	0.002824	-0.00048	-0.01061	0.005101	-0.00095	-0.00072	-0.00158	0.001021
-0.00018	-0.05812	0.067114	-0.00232	-0.00391	-0.03894	0.002606	-0.00042	-0.0106	0.005076	-0.00094	-0.00072	-0.00158	0.001022
-0.00513	-0.04234	0.069715	-0.00881	0.004587	-0.0387	0.002385	-0.00035	-0.01059	0.00505	-0.00093	-0.00073	-0.00158	0.001022
-0.00219	-0.02448	0.068947	-0.01471	0.012914	-0.03836	0.002162	-0.00029	-0.01058	0.005023	-0.00092	-0.00073	-0.00158	0.001023
0.005106	-0.00464	0.065487	-0.01992	0.020968	-0.0379	0.001936	-0.00023	-0.01056	0.004996	-0.00091	-0.00074	-0.00158	0.001023
0.000788	0.020558	0.05999	-0.0243	0.028642	-0.03733	0.001708	-0.00016	-0.01054	0.004967	-0.0009	-0.00074	-0.00158	0.001024
-0.00502	0.043584	0.053182	-0.02782	0.035827	-0.03667	0.001478	-0.0001	-0.01052	0.004938	-0.00089	-0.00075	-0.00158	0.001024
0.004973	0.054446	0.045804	-0.03042	0.042419	-0.03591	0.001247	-3.79E-05	-0.01049	0.004908	-0.00088	-0.00075	-0.00158	0.001025
0.003455	0.046565	0.038467	-0.0321	0.048319	-0.03507	0.001014	2.59E-05	-0.01046	0.004878	-0.00087	-0.00076	-0.00158	0.001026
-0.00502	0.030987	0.031255	-0.03281	0.053432	-0.03414	0.000779	8.99E-05	-0.01043	0.004846	-0.00086	-0.00076	-0.00158	0.001026
0.002473	0.019999	0.024116	-0.03256	0.057672	-0.03314	0.000544	0.000154	-0.0104	0.004814	-0.00085	-0.00077	-0.00158	0.001027
0.00545	0.012893	0.017	-0.03135	0.060985	-0.03206	0.000307	0.000219	-0.01036	0.004781	-0.00084	-0.00077	-0.00158	0.001027
-0.0024	0.006118	0.009858	-0.02927	0.063383	-0.03093	7.04E-05	0.000283	-0.01032	0.004748	-0.00083	-0.00078	-0.00158	0.001028
-0.00626	-0.00227	0.002638	-0.02646	0.064923	-0.02973	-0.00017	0.000348	-0.01028	0.004714	-0.00082	-0.00079	-0.00158	0.001028
-0.00711	-0.01382	-0.00471	-0.02304	0.065671	-0.02848	-0.0004	0.000412	-0.01023	0.004679	-0.00081	-0.00079	-0.00158	0.001029
0.006163	-0.02686	-0.01223	-0.01915	0.065694	-0.02718	-0.00064	0.000477	-0.01019	0.004643	-0.0008	-0.0008	-0.00157	0.001029
0.008871	-0.03011	-0.02002	-0.01494	0.065054	-0.02584	-0.00088	0.000542	-0.01014	0.004607	-0.00079	-0.0008	-0.00157	0.001029
0.004375	-0.02253	-0.0281	-0.01054	0.063813	-0.02446	-0.00112	0.000607	-0.01008	0.004569	-0.00078	-0.00081	-0.00157	0.00103
-0.00764	-0.00895	-0.03587	-0.00608	0.062033	-0.02303	-0.00135	0.000672	-0.01003	0.004532	-0.00077	-0.00081	-0.00157	0.00103
-0.01206	0.005106	-0.04251	-0.00171	0.059776	-0.02157	-0.00159	0.000736	-0.00997	0.004493	-0.00075	-0.00082	-0.00157	0.001031
-0.00658	0.016109	-0.04724	0.002432	0.057111	-0.02008	-0.00183	0.000801	-0.00991	0.004454	-0.00074	-0.00082	-0.00157	0.001031
0.002553	0.021518	-0.04925	0.00619	0.05412	-0.01855	-0.00206	0.000866	-0.00985	0.004415	-0.00073	-0.00083	-0.00157	0.001032
0.015014	0.018997	-0.04781	0.009363	0.050902	-0.017	-0.00229	0.00093	-0.00978	0.004374	-0.00072	-0.00083	-0.00157	0.001032
0.012529	0.007989	-0.04265	0.011739	0.047557	-0.01542	-0.00252	0.000995	-0.00972	0.004333	-0.00071	-0.00084	-0.00157	0.001033
0.011025	-0.00626	-0.03418	0.013278	0.04419	-0.01382	-0.00275	0.001059	-0.00965	0.004291	-0.0007	-0.00084	-0.00157	0.001033
0.003496	-0.01708	-0.02301	0.013981	0.040918	-0.01221	-0.00298	0.001124	-0.00958	0.004249	-0.00069	-0.00085	-0.00157	0.001034
-0.01707	-0.01761	-0.00992	0.013875	0.037831	-0.01058	-0.00321	0.001188	-0.0095	0.004206	-0.00068	-0.00085	-0.00157	0.001034
0.013412	-0.00423	0.003667	0.013073	0.034934	-0.00894	-0.00343	0.001251	-0.00943	0.004163	-0.00067	-0.00086	-0.00157	0.001035
0.016921	0.011307	0.016139	0.011706	0.03221	-0.00729	-0.00365	0.001315	-0.00935	0.004119	-0.00065	-0.00086	-0.00157	0.001035
-0.00904	0.016854	0.025912	0.009907	0.029646	-0.00563	-0.00387	0.001379	-0.00927	0.004074	-0.00064	-0.00087	-0.00157	0.001036
-0.00997	0.014134	0.031623	0.007808	0.027225	-0.00398	-0.00408	0.001442	-0.00919	0.004029	-0.00063	-0.00087	-0.00157	0.001036
-0.01547	0.007316	0.032936	0.005585	0.024931	-0.00232	-0.00429	0.001505	-0.00911	0.003983	-0.00062	-0.00088	-0.00157	0.001037
-0.01184	-0.00066	0.030288	0.003518	0.022749	-0.00067	-0.0045	0.001567	-0.00902	0.003937	-0.00061	-0.00088	-0.00157	0.001037
-0.00854	-0.00842	0.024509	0.001661	0.020665	0.000969	-0.00471	0.001629	-0.00893	0.00389	-0.0006	-0.00089	-0.00157	0.001038
0.000411	-0.01468	0.016496	-6.66E-07	0.018658	0.002599	-0.00491	0.001691	-0.00884	0.003842	-0.00058	-0.0009	-0.00156	0.001038
0.012752	-0.01629	0.007148	-0.00147	0.0167	0.004214	-0.0051	0.001753	-0.00875	0.003794	-0.00057	-0.0009	-0.00156	0.001038
0.013107	-0.0089	-0.00258	-0.00273	0.01475	0.005812	-0.0053	0.001814	-0.00866	0.003746	-0.00056	-0.00091	-0.00156	0.001039

-0.01316	0.006952	-0.01143	-0.00379	0.012772	0.007389	-0.00549	0.001875	-0.00856	0.003697	-0.00055	-0.00091	-0.00156	0.001039
-0.00898	0.015495	-0.01796	-0.00463	0.01073	0.008941	-0.00567	0.001935	-0.00847	0.003647	-0.00054	-0.00092	-0.00156	0.00104
0.014056	0.013632	-0.021	-0.00527	0.008599	0.010467	-0.00585	0.001995	-0.00837	0.003597	-0.00053	-0.00092	-0.00156	0.00104
0.007944	0.004432	-0.02077	-0.00569	0.006354	0.011961	-0.00602	0.002054	-0.00827	0.003547	-0.00051	-0.00093	-0.00156	0.001041
0.006511	-0.00662	-0.0179	-0.00583	0.003983	0.013421	-0.00619	0.002113	-0.00817	0.003495	-0.0005	-0.00093	-0.00156	0.001041
-0.01689	-0.01352	-0.01295	-0.00566	0.001491	0.014844	-0.00635	0.002171	-0.00806	0.003444	-0.00049	-0.00094	-0.00156	0.001042
-0.01093	-0.01199	-0.00659	-0.00522	-0.0011	0.016227	-0.00651	0.002229	-0.00796	0.003392	-0.00048	-0.00094	-0.00156	0.001042
-0.00381	-0.00462	0.000174	-0.00453	-0.00376	0.017566	-0.00666	0.002286	-0.00785	0.003339	-0.00047	-0.00095	-0.00156	0.001042
0.001132	0.004274	0.006231	-0.00359	-0.00648	0.018858	-0.00681	0.002343	-0.00774	0.003286	-0.00045	-0.00095	-0.00156	0.001043
0.021642	0.01037	0.010477	-0.00244	-0.00921	0.020101	-0.00695	0.002399	-0.00763	0.003233	-0.00044	-0.00096	-0.00156	0.001043
0.021395	0.010541	0.011992	-0.00109	-0.01195	0.021289	-0.00708	0.002454	-0.00752	0.003179	-0.00043	-0.00096	-0.00156	0.001044
0.006226	0.006329	0.010752	0.000422	-0.01467	0.022421	-0.00721	0.002509	-0.00741	0.003125	-0.00042	-0.00097	-0.00156	0.001044
0.000116	0.000136	0.007575	0.002002	-0.01734	0.023494	-0.00733	0.002563	-0.0073	0.00307	-0.0004	-0.00097	-0.00155	0.001045
-0.02115	-0.00572	0.003442	0.003539	-0.01995	0.024503	-0.00744	0.002616	-0.00718	0.003015	-0.00039	-0.00098	-0.00155	0.001045
-0.0259	-0.00892	-0.00067	0.004922	-0.02247	0.025446	-0.00754	0.002669	-0.00707	0.00296	-0.00038	-0.00098	-0.00155	0.001045
-0.0162	-0.00784	-0.00392	0.006041	-0.02488	0.02632	-0.00764	0.002721	-0.00695	0.002904	-0.00037	-0.00099	-0.00155	0.001046
-0.01316	-0.00367	-0.00605	0.006781	-0.02714	0.027121	-0.00773	0.002772	-0.00683	0.002847	-0.00036	-0.00099	-0.00155	0.001046
-0.00677	0.00178	-0.00701	0.007018	-0.02924	0.027845	-0.00781	0.002822	-0.00671	0.002791	-0.00034	-0.001	-0.00155	0.001047
-0.00118	0.006681	-0.00676	0.006654	-0.03113	0.028491	-0.00789	0.002871	-0.00659	0.002734	-0.00033	-0.001	-0.00155	0.001047
0.00943	0.009224	-0.00537	0.005692	-0.03279	0.029054	-0.00795	0.002919	-0.00647	0.002676	-0.00032	-0.00101	-0.00155	0.001047
0.024887	0.007651	-0.00302	0.004205	-0.03421	0.029532	-0.00801	0.002967	-0.00635	0.002618	-0.0003	-0.00102	-0.00155	0.001048
0.016207	0.001323	-0.00019	0.002293	-0.03536	0.02992	-0.00806	0.003013	-0.00622	0.00256	-0.00029	-0.00102	-0.00155	0.001048
0.006645	-0.0068	0.00243	0.00011	-0.03624	0.030217	-0.0081	0.003058	-0.0061	0.002502	-0.00028	-0.00103	-0.00155	0.001049
-0.0019	-0.01285	0.004168	-0.00224	-0.03681	0.030418	-0.00813	0.003103	-0.00597	0.002443	-0.00027	-0.00103	-0.00155	0.001049
-0.01967	-0.01299	0.004399	-0.0047	-0.03707	0.03052	-0.00815	0.003146	-0.00584	0.002384	-0.00025	-0.00104	-0.00155	0.001049
-0.01562	-0.00499	0.002787	-0.00717	-0.03699	0.030521	-0.00816	0.003188	-0.00572	0.002324	-0.00024	-0.00104	-0.00155	0.00105
-0.00589	0.006864	0.000154	-0.00935	-0.03655	0.030419	-0.00816	0.003229	-0.00559	0.002265	-0.00023	-0.00105	-0.00154	0.00105
0.005829	0.016659	-0.00238	-0.01089	-0.03575	0.030213	-0.00815	0.003269	-0.00546	0.002205	-0.00022	-0.00105	-0.00154	0.001051
0.011634	0.0185	-0.00374	-0.01147	-0.03456	0.029909	-0.00814	0.003308	-0.00533	0.002144	-0.0002	-0.00106	-0.00154	0.001051
0.002071	0.008847	-0.00324	-0.01078	-0.033	0.029509	-0.00811	0.003346	-0.0052	0.002084	-0.00019	-0.00106	-0.00154	0.001051
0.001709	-0.00673	-0.00153	-0.00879	-0.03113	0.029021	-0.00807	0.003382	-0.00506	0.002023	-0.00018	-0.00107	-0.00154	0.001052
-0.0052	-0.02039	0.000612	-0.00577	-0.02898	0.028449	-0.00803	0.003418	-0.00493	0.001961	-0.00016	-0.00107	-0.00154	0.001052
0.003302	-0.02549	0.002501	-0.00203	-0.02662	0.027797	-0.00798	0.003452	-0.0048	0.0019	-0.00015	-0.00108	-0.00154	0.001052
-0.00171	-0.02215	0.00357	0.002111	-0.0241	0.027072	-0.00792	0.003486	-0.00466	0.001838	-0.00014	-0.00108	-0.00154	0.001053
0.000576	-0.0168	0.003787	0.006327	-0.02148	0.026277	-0.00785	0.003518	-0.00453	0.001776	-0.00013	-0.00109	-0.00154	0.001053
-5.19E-05	-0.00836	0.003283	0.010273	-0.01881	0.025419	-0.00777	0.003549	-0.0044	0.001714	-0.00011	-0.00109	-0.00154	0.001054
0.000536	0.000756	0.002291	0.013499	-0.01616	0.024502	-0.00769	0.003579	-0.00426	0.001652	-0.0001	-0.0011	-0.00154	0.001054
0.000994	0.012043	0.001056	0.015545	-0.01357	0.023531	-0.00759	0.003608	-0.00412	0.001589	-8.73E-05	-0.0011	-0.00154	0.001054
-0.00242	0.027071	-0.00028	0.016046	-0.0111	0.022511	-0.00749	0.003636	-0.00399	0.001526	-7.43E-05	-0.00111	-0.00153	0.001055
0.004386	0.038232	-0.0019	0.014966	-0.0088	0.021448	-0.00739	0.003663	-0.00385	0.001463	-6.13E-05	-0.00111	-0.00153	0.001055
0.001718	0.038435	-0.00399	0.012432	-0.00664	0.020346	-0.00727	0.003689	-0.00371	0.0014	-4.82E-05	-0.00112	-0.00153	0.001055
-0.00917	0.016921	-0.00578	0.008601	-0.00462	0.019211	-0.00715	0.003714	-0.00358	0.001336	-3.52E-05	-0.00112	-0.00153	0.001056
0.008832	-0.019	-0.0062	0.003633	-0.00272	0.018047	-0.00703	0.003738	-0.00344	0.001273	-2.22E-05	-0.00113	-0.00153	0.001056
0.013474	-0.04099	-0.00423	-0.00222	-0.00093	0.016859	-0.00689	0.00376	-0.0033	0.001209	-9.09E-06	-0.00113	-0.00153	0.001056
-0.01481	-0.03061	0.000245	-0.00829	0.000761	0.015653	-0.00675	0.003782	-0.00316	0.001145	3.98E-06	-0.00114	-0.00153	0.001057
0.015392	0.014545	0.00533	-0.01371	0.002371	0.014434	-0.00661	0.003803	-0.00303	0.001081	1.71E-05	-0.00114	-0.00153	0.001057
0.00773	0.041697	0.008589	-0.01755	0.00391	0.013207	-0.00646	0.003823	-0.00289	0.001017	3.02E-05	-0.00115	-0.00153	0.001058
-0.01495	0.038481	0.008292	-0.01919	0.005393	0.011976	-0.0063	0.003842	-0.00275	0.000952	4.33E-05	-0.00115	-0.00153	0.001058
0.014597	0.014216	0.005046	-0.01884	0.006827	0.010747	-0.00614	0.00386	-0.00261	0.000888	5.64E-05	-0.00116	-0.00152	0.001058
-0.00917	-0.00245	2.86E-05	-0.01685	0.008204	0.009526	-0.00597	0.003876	-0.00247	0.000823	6.95E-05	-0.00116	-0.00152	0.001059
-0.01516	-0.01335	-0.00558	-0.01357	0.009509	0.008316	-0.0058	0.003892	-0.00233	0.000758	8.26E-05	-0.00117	-0.00152	0.001059
0.012521	-0.02838	-0.0106	-0.00938	0.010729	0.007123	-0.00562	0.003907	-0.0022	0.000694	9.57E-05	-0.00117	-0.00152	0.001059
0.018243	-0.0392	-0.01386	-0.0046	0.011849	0.005952	-0.00544	0.003921	-0.00206	0.000629	0.000109	-0.00118	-0.00152	0.00106
-0.00402	-0.03474	-0.0145	0.000435	0.012854	0.004808	-0.00525	0.003934	-0.00192	0.000564	0.000122	-0.00118	-0.00152	0.00106
-0.02333	-0.01974	-0.01273	0.005467	0.01373	0.003697	-0.00506	0.003946	-0.00178	0.000498	0.000135	-0.00119	-0.00152	0.00106
-0.01184	-0.00077	-0.00904	0.010227	0.014464	0.002622	-0.00487	0.003958	-0.00164	0.000433	0.000148	-0.00119	-0.00152	0.001061
-0.00137	0.017628	-0.00393	0.014445	0.015039	0.001589	-0.00467	0.003968	-0.0015	0.000368	0.000161	-0.0012	-0.00152	0.001061
0.010959	0.031313	0.00212	0.017856	0.015443	0.000604	-0.00447	0.003977	-0.00137	0.000303	0.000175	-0.0012	-0.00152	0.001061
0.027494	0.036144	0.008615	0.020191	0.015661	-0.00033	-0.00426	0.003986	-0.00123	0.000237	0.000188	-0.00121	-0.00152	0.001062
0.035392	0.028649	0.014921	0.021183	0.01568	-0.00121	-0.00406	0.003993	-0.00109	0.000172	0.000201	-0.00121	-0.00151	0.001062
-0.00362	0.009559	0.019906	0.02056	0.015489	-0.00203	-0.00385	0.004	-0.00096	0.000106	0.000214	-0.00122	-0.00151	0.001062
-0.01156	-0.01363	0.022664	0.018064	0.015099	-0.00278	-0.00363	0.004006	-0.00082	4.08E-05	0.000227	-0.00122	-0.00151	0.001063
-0.0286	-0.03192	0.022149	0.01368	0.014526	-0.00348	-0.00342	0.004011	-0.00068	-2.47E-05	0.00024	-0.00123	-0.00151	0.001063
-0.03513	-0.03664	0.016794	0.007907	0.013788	-0.00412	-0.0032	0.004015	-0.00055	-9.02E-05	0.000253	-0.00123	-0.00151	0.001063
-0.00947	-0.02339	0.005792	0.001368	0.012904	-0.00472	-0.00298	0.004018	-0.00041	-0.00016	0.000267	-0.00124	-0.00151	0.001063
0.001898	0.000638	-0.00811	-0.00532	0.011893	-0.00526	-0.00275	0.004021	-0.00028	-0.00022	0.00028	-0.00124	-0.00151	0.001064
0.028273	0.025216	-0.02104	-0.01152	0.010774	-0.00577	-0.00253	0.004022	-0.00015	-0.00029	0.000293	-0.00125	-0.00151	0.001064
0.024163	0.039801	-0.02912	-0.01663	0.009566	-0.00623	-0.0023	0.004023	-1.25E-05	-0.00035	0.000306	-0.00125	-0.00151	0.001064
0.00954	0.035978	-0.02954	-0.02002	0.008287	-0.00666	-0.00207	0.004023	0.00012	-0.00042	0.000319	-0.00126	-0.0015	0.001065
0.005447	0.017989	-0.02378	-0.02123	0.006956	-0.00707	-0.00184	0.004022	0.000252	-0.00048	0.000332	-0.00126	-0.0015	0.001065
-0.00866	-0.00669	-0.01381	-0.02045	0.005592	-0.00744	-0.00161	0.00402	0.000383	-0.00055	0.000345	-0.00127	-0.0015	0.001065
-0.01722	-0.03058	-0.00141	-0.01803	0.004217	-0.0078	-0.00138	0.004018	0.000513	-0.00061	0.000358	-0.00127	-0.0015	0.001066
0.008305	-0.04562	0.011607	-0.01434	0.002852	-0.00814	-0.00115	0.004014	0.000643	-0.00068	0.000371	-0.00128	-0.0015	0.001066
0.017943	-0.04133	0.02328	-0.00972	0.001516	-0.00847	-0.00092	0.00401	0.000772	-0.00074	0.000384	-0.00128	-0.0015	0.001066
-0.00619	-0.01246	0.031695	-0.00453	0.00023	-0.00879	-0.00069	0.004005	0.0009	-0.00081	0.000397	-0.00129	-0.0015	0.001066
-0.02158	0.023951	0.03495	0.00088	-0.00098	-0.00911	-0.00045	0.003999	0.001027	-0.00087	0.00041	-0.00129	-0.0015	0.001067
-0.00383	0.049327	0.031127	0.006168	-0.00211	-0.00943	-0.00022	0.003993	0.001153	-0.00094	0.000424	-0.0013	-0.0015	0.001067
0.024496	0.049805	0.019173	0.011056	-0.00312	-0.00976	1.06E-05	0.003985	0.001279	-0.001	0.000436	-0.0013	-0.00149	0.001067
-0.01789	0.017174	0.001919	0.015232	-0.00401	-0.01009	0.000242	0.003977	0.001404	-0.00107	0.000449	-0.00131	-0.00149	0.001068
-0.02317	-0.0252	-0.0163	0.018371	-0.00474	-0.01044	0.000472	0.003968	0.001527	-0.00113	0.000462	-0.00131	-0.00149	0.001068
-0.01045	-0.04995	-0.031	0.020147	-0.0053	-0.0108	0.000702	0.003958	0.00165	-0.0012	0.000475	-0.00132	-0.00149	0.001068
0.009625	-0.04933	-0.03796	0.020235	-0.00567	-0.01119	0.00093	0.003947	0.001772	-0.00126	0.000488	-0.00132	-0.00149	0.001068
0.013968	-0.03132	-0.03496	0.018443	-0.00584	-0.0116	0.001157	0.003935	0.001893	-0.00133	0.000501	-0.00133	-0.00149	0.001069
0.007852	-0.00376	-0.02415	0.01508	-0.00582	-0.01205	0.001383	0.003922	0.002013	-0.00139	0.000514	-0.00133	-0.00149	0.001069
-0.00151	0.024947	-0.00868	0.010577	-0.00565	-0.01251	0.001606	0.003908	0.002131	-0.00145	0.000527	-0.00134	-0.00149	0.001069
-0.00613	0.043948	0.00825	0.005369	-0.00534	-0.01299	0.001828	0.003894	0.002249	-0.00152	0.00054	-0.00134	-0.00149	0.001069
0.006019	0.044271	0.023483	-0.00011	-0.00492	-0.01347	0.002048	0.003878	0.002366	-0.00158	0.000553	-0.00135	-0.00148	0.00107
0.00296	0.03362	0.034274	-0.00543	-0.00442	-0.01395	0.002265	0.003862	0.002482	-0.00164	0.000565	-0.00135	-0.00148	0.00107
-0.00898	0.012643	0.039648	-0.01016	-0.00386	-0.01442	0.00248	0.003844	0.002597	-0.00171	0.000578	-0.00136	-0.00148	0.00107
0.010293	-0.01789	0.039296	-0.01393	-0.00326	-0.01488	0.002691	0.003826	0.00271	-0.00177	0.000591	-0.00136	-0.00148	0.00107
-0.01052	-0.03764	0.033235	-0.01667	-0.00264	-0.01532	0.0029	0.003807	0.002823	-0.00183	0.000604	-0.00137	-0.00148	0.001071
0.002471	-0.03461	0.021643	-0.01838	-0.00205	-0.01573	0.003106	0.003786	0.002935	-0.00189	0.000616	-0.00137	-0.00148	0.001071
0.008329	-0.01881	0.005531	-0.01905	-0.00148	-0.0161	0.003309	0.003765	0.003045	-0.00196	0.000629	-0.00138	-0.00148	0.001071

-0.00705	-0.00308	-0.01211	-0.01867	-0.00098	-0.01644	0.003508	0.003742	0.003155	-0.00202	0.000642	-0.00138	-0.00148	0.001071
0.003617	0.012833	-0.02783	-0.01728	-0.00053	-0.01673	0.003703	0.003718	0.003263	-0.00208	0.000654	-0.00139	-0.00147	0.001072
0.005894	0.025012	-0.03822	-0.01488	-0.00014	-0.01697	0.003895	0.003694	0.00337	-0.00214	0.000667	-0.00139	-0.00147	0.001072
0.004799	0.027716	-0.03986	-0.01154	0.000181	-0.01715	0.004082	0.003668	0.003476	-0.0022	0.000679	-0.00139	-0.00147	0.001072
-0.00648	0.016648	-0.03049	-0.00749	0.000449	-0.01727	0.004265	0.003641	0.003581	-0.00226	0.000692	-0.0014	-0.00147	0.001072
-0.0026	-0.00623	-0.01337	-0.00301	0.000664	-0.01732	0.004443	0.003612	0.003685	-0.00232	0.000704	-0.0014	-0.00147	0.001073
0.00766	-0.02435	0.005921	0.001597	0.000829	-0.01731	0.004618	0.003583	0.003788	-0.00238	0.000717	-0.00141	-0.00147	0.001073
0.005363	-0.02272	0.022435	0.006059	0.000948	-0.01723	0.004787	0.003552	0.003889	-0.00244	0.000729	-0.00141	-0.00147	0.001073
-0.00835	-0.0053	0.034064	0.010086	0.001028	-0.01707	0.004952	0.00352	0.00399	-0.0025	0.000742	-0.00142	-0.00147	0.001073
0.007489	0.014344	0.039403	0.013392	0.001072	-0.01685	0.005112	0.003487	0.004089	-0.00256	0.000754	-0.00142	-0.00146	0.001074
0.008194	0.022196	0.036986	0.015747	0.001089	-0.01656	0.005267	0.003453	0.004188	-0.00262	0.000766	-0.00143	-0.00146	0.001074
-0.00788	0.015138	0.02606	0.017165	0.001086	-0.0162	0.005418	0.003417	0.004285	-0.00268	0.000779	-0.00143	-0.00146	0.001074
-1.72E-05	0.001613	0.009583	0.017737	0.001071	-0.01578	0.005563	0.003379	0.004381	-0.00274	0.000791	-0.00144	-0.00146	0.001074
0.006985	-0.01218	-0.00855	0.017564	0.001049	-0.01529	0.005703	0.003341	0.004476	-0.0028	0.000803	-0.00144	-0.00146	0.001075
0.003157	-0.02149	-0.02442	0.016751	0.001022	-0.01473	0.005838	0.003301	0.00457	-0.00286	0.000815	-0.00145	-0.00146	0.001075
-0.00591	-0.02201	-0.0347	0.015407	0.000988	-0.01412	0.005968	0.003259	0.004662	-0.00291	0.000827	-0.00145	-0.00146	0.001075
0.005355	-0.01009	-0.03863	0.013639	0.000946	-0.01344	0.006092	0.003216	0.004754	-0.00297	0.000839	-0.00146	-0.00145	0.001075
-0.00483	0.009287	-0.03745	0.011549	0.000896	-0.01271	0.006211	0.003171	0.004845	-0.00303	0.000852	-0.00146	-0.00145	0.001075
-0.00195	0.022099	-0.03278	0.009215	0.000837	-0.01192	0.006325	0.003125	0.004934	-0.00308	0.000864	-0.00146	-0.00145	0.001076
0.004003	0.022106	-0.02588	0.006699	0.000768	-0.01108	0.006433	0.003078	0.005022	-0.00314	0.000875	-0.00147	-0.00145	0.001076
0.00036	0.007952	-0.01696	0.004059	0.000689	-0.01019	0.006535	0.003028	0.00511	-0.0032	0.000887	-0.00147	-0.00145	0.001076
-0.00361	-0.01052	-0.00714	0.001357	0.0006	-0.00924	0.006632	0.002977	0.005196	-0.00325	0.000899	-0.00148	-0.00145	0.001076
0.000427	-0.02151	0.002169	-0.00135	0.000503	-0.00826	0.006723	0.002925	0.005281	-0.0033	0.000911	-0.00148	-0.00145	0.001076
0.003634	-0.01816	0.009816	-0.004	0.000402	-0.00723	0.006808	0.00287	0.005365	-0.00336	0.000923	-0.00149	-0.00145	0.001077
-0.00376	-0.00271	0.01582	-0.00653	0.000298	-0.00618	0.006888	0.002814	0.005447	-0.00341	0.000935	-0.00149	-0.00144	0.001077
0.003769	0.012831	0.020486	-0.00889	0.000196	-0.00509	0.006961	0.002756	0.005529	-0.00347	0.000946	-0.0015	-0.00144	0.001077
0.004037	0.01959	0.024118	-0.01102	9.96E-05	-0.00399	0.007028	0.002697	0.00561	-0.00352	0.000958	-0.0015	-0.00144	0.001077
-0.00411	0.013374	0.02701	-0.01285	1.21E-05	-0.00287	0.007089	0.002636	0.005689	-0.00357	0.000969	-0.00151	-0.00144	0.001077
0.004087	-0.00437	0.029412	-0.01433	-6.18E-05	-0.00174	0.007144	0.002573	0.005767	-0.00362	0.000981	-0.00151	-0.00144	0.001078
-0.00152	-0.01765	0.031563	-0.0154	-0.00012	-0.00062	0.007192	0.002508	0.005845	-0.00368	0.000992	-0.00152	-0.00144	0.001078
-0.00373	-0.01543	0.033601	-0.016	-0.00015	0.000495	0.007234	0.002441	0.005921	-0.00373	0.001004	-0.00152	-0.00144	0.001078
0.003424	0.00348	0.035259	-0.01607	-0.00014	0.001596	0.00727	0.002373	0.005996	-0.00378	0.001015	-0.00152	-0.00143	0.001078
-0.00307	0.0157	0.036165	-0.01555	-0.00011	0.002673	0.007299	0.002302	0.006069	-0.00383	0.001027	-0.00153	-0.00143	0.001078
0.002724	0.012169	0.03592	-0.01438	-3.82E-05	0.003721	0.007321	0.002231	0.006142	-0.00388	0.001038	-0.00153	-0.00143	0.001078
-0.00246	0.002562	0.034006	-0.01252	5.32E-05	0.004731	0.007336	0.002157	0.006213	-0.00393	0.001049	-0.00154	-0.00143	0.001079
0.002295	-0.0081	0.029948	-0.01001	0.000162	0.005697	0.007343	0.002082	0.006284	-0.00397	0.00106	-0.00154	-0.00143	0.001079
-0.00223	-0.01353	0.023376	-0.00701	0.000283	0.00661	0.007344	0.002006	0.006353	-0.00402	0.001071	-0.00155	-0.00143	0.001079
0.002198	-0.00848	0.014232	-0.00368	0.00041	0.007464	0.007336	0.001928	0.006421	-0.00407	0.001082	-0.00155	-0.00143	0.001079
-0.00211	0.001982	0.003632	-0.00018	0.000536	0.008251	0.007322	0.001849	0.006487	-0.00412	0.001093	-0.00156	-0.00142	0.001079
0.001916	0.009356	-0.00702	0.003306	0.000656	0.008964	0.007299	0.001769	0.006553	-0.00416	0.001104	-0.00156	-0.00142	0.001079
0.001188	0.012073	-0.01654	0.006616	0.000763	0.009595	0.007268	0.001688	0.006617	-0.00421	0.001115	-0.00156	-0.00142	0.00108
-0.00124	0.011067	-0.02456	0.009581	0.000851	0.010138	0.00723	0.001605	0.00668	-0.00425	0.001126	-0.00157	-0.00142	0.00108
-0.0007	0.007156	-0.03047	0.012032	0.000916	0.010585	0.007182	0.001521	0.006742	-0.0043	0.001136	-0.00157	-0.00142	0.00108
0.0006	0.000675	-0.03354	0.013801	0.000949	0.010928	0.007127	0.001437	0.006803	-0.00434	0.001147	-0.00158	-0.00142	0.00108
-0.0005	-0.00698	-0.03308	0.014763	0.000945	0.011161	0.007063	0.001351	0.006862	-0.00439	0.001158	-0.00158	-0.00142	0.00108
0.000686	-0.01136	-0.02861	0.014976	0.00089	0.011284	0.00699	0.001264	0.00692	-0.00443	0.001168	-0.00159	-0.00141	0.00108
-0.00121	-0.0107	-0.02007	0.01454	0.000771	0.011302	0.006909	0.001177	0.006977	-0.00447	0.001179	-0.00159	-0.00141	0.001081
0.000693	-0.00798	-0.00878	0.013534	0.000592	0.011221	0.006819	0.001088	0.007033	-0.00451	0.001189	-0.0016	-0.00141	0.001081
0.003135	-0.00256	0.003572	0.012031	0.000361	0.011048	0.006721	0.000999	0.007087	-0.00455	0.001199	-0.0016	-0.00141	0.001081
-0.00444	0.005899	0.015316	0.010107	8.77E-05	0.010789	0.006615	0.000909	0.007141	-0.00459	0.00121	-0.0016	-0.00141	0.001081
-0.00565	0.012073	0.024773	0.007835	-0.00022	0.01045	0.006501	0.000818	0.007192	-0.00463	0.00122	-0.00161	-0.00141	0.001081
0.006101	0.011973	0.030272	0.00529	-0.00055	0.010038	0.00638	0.000727	0.007243	-0.00467	0.00123	-0.00161	-0.0014	0.001081
0.007874	0.003765	0.030588	0.002548	-0.0009	0.009561	0.00625	0.000634	0.007292	-0.00471	0.00124	-0.00162	-0.0014	0.001081
-0.00862	-0.00819	0.026193	-0.00031	-0.00126	0.009023	0.006113	0.000542	0.00734	-0.00475	0.00125	-0.00162	-0.0014	0.001082
-0.00836	-0.01393	0.01796	-0.00317	-0.00161	0.008432	0.00597	0.000448	0.007387	-0.00479	0.00126	-0.00163	-0.0014	0.001082
-0.00219	-0.00697	0.006962	-0.00593	-0.00196	0.007794	0.005819	0.000355	0.007432	-0.00482	0.00127	-0.00163	-0.0014	0.001082
-0.00054	0.006249	-0.00483	-0.00847	-0.00229	0.007116	0.005661	0.000261	0.007476	-0.00486	0.00128	-0.00163	-0.0014	0.001082
0.004623	0.016191	-0.01505	-0.01069	-0.00259	0.006404	0.005496	0.000166	0.007519	-0.00489	0.001289	-0.00164	-0.0014	0.001082
0.007729	0.014938	-0.02214	-0.01245	-0.00285	0.005664	0.005326	7.11E-05	0.00756	-0.00493	0.001299	-0.00164	-0.00139	0.001082
0.00038	-0.00033	-0.02613	-0.01367	-0.00307	0.004904	0.005148	-2.41E-05	0.0076	-0.00496	0.001309	-0.00165	-0.00139	0.001082
-0.00546	-0.01655	-0.0274	-0.01421	-0.00323	0.004129	0.004965	-0.00012	0.007639	-0.00499	0.001318	-0.00165	-0.00139	0.001082
0.004057	-0.02025	-0.02635	-0.01402	-0.00334	0.003347	0.004776	-0.00022	0.007676	-0.00503	0.001327	-0.00165	-0.00139	0.001083
-0.00262	-0.01441	-0.02334	-0.01315	-0.00337	0.002563	0.004581	-0.00031	0.007712	-0.00506	0.001337	-0.00166	-0.00139	0.001083
0.001372	-0.0098	-0.01879	-0.01171	-0.00334	0.001784	0.00438	-0.00041	0.007747	-0.00509	0.001346	-0.00166	-0.00139	0.001083
-0.00051	-0.00279	-0.01312	-0.00981	-0.00325	0.001016	0.004174	-0.0005	0.00778	-0.00512	0.001355	-0.00167	-0.00138	0.001083
0.000199	0.003763	-0.00677	-0.00753	-0.0031	0.000263	0.003963	-0.0006	0.007812	-0.00515	0.001364	-0.00167	-0.00138	0.001083
-0.00048	0.007634	-0.00015	-0.00498	-0.0029	-0.00047	0.003747	-0.0007	0.007842	-0.00517	0.001373	-0.00168	-0.00138	0.001083
0.001323	0.012721	0.006299	-0.00225	-0.00265	-0.00118	0.003526	-0.00079	0.007871	-0.0052	0.001382	-0.00168	-0.00138	0.001083
-0.00507	0.021553	0.012159	0.000554	-0.00236	-0.00186	0.003301	-0.00089	0.007899	-0.00523	0.001391	-0.00168	-0.00138	0.001083
-0.00639	0.028834	0.017004	0.003337	-0.00202	-0.00252	0.003071	-0.00098	0.007925	-0.00525	0.0014	-0.00169	-0.00138	0.001083
-0.00645	0.031341	0.020407	0.006001	-0.00164	-0.00314	0.002836	-0.00108	0.00795	-0.00528	0.001408	-0.00169	-0.00137	0.001084
0.008734	0.027022	0.022079	0.008446	-0.00122	-0.00373	0.002598	-0.00117	0.007973	-0.0053	0.001417	-0.0017	-0.00137	0.001084
0.003871	0.014592	0.022274	0.010576	-0.00076	-0.00429	0.002356	-0.00127	0.007995	-0.00533	0.001425	-0.0017	-0.00137	0.001084
-0.00442	-0.00257	0.021381	0.012295	-0.00026	-0.00481	0.002109	-0.00136	0.008015	-0.00535	0.001434	-0.0017	-0.00137	0.001084
-0.00461	-0.01986	0.019762	0.013535	0.000279	-0.0053	0.00186	-0.00146	0.008034	-0.00537	0.001442	-0.00171	-0.00137	0.001084
-0.01911	-0.03272	0.017739	0.014269	0.000856	-0.00574	0.001607	-0.00155	0.008052	-0.00539	0.00145	-0.00171	-0.00137	0.001084
-0.01445	-0.03808	0.015582	0.014519	0.00147	-0.00615	0.001351	-0.00164	0.008068	-0.00541	0.001458	-0.00172	-0.00136	0.001084
0.024412	-0.03895	0.013552	0.014319	0.002118	-0.00652	0.001091	-0.00174	0.008082	-0.00543	0.001466	-0.00172	-0.00136	0.001084
0.009139	-0.0388	0.011849	0.013712	0.00279	-0.00685	0.000829	-0.00183	0.008095	-0.00545	0.001474	-0.00172	-0.00136	0.001084
0.001221	-0.03811	0.010419	0.012745	0.003471	-0.00713	0.000565	-0.00192	0.008107	-0.00547	0.001482	-0.00173	-0.00136	0.001084
-0.01092	-0.0366	0.009101	0.011461	0.004148	-0.00737	0.000297	-0.00201	0.008117	-0.00548	0.00149	-0.00173	-0.00136	0.001084
-0.02601	-0.03399	0.007732	0.009903	0.004811	-0.00756	2.79E-05	-0.0021	0.008126	-0.0055	0.001498	-0.00174	-0.00136	0.001084
-0.03626	-0.0301	0.006268	0.008112	0.005449	-0.0077	-0.00024	-0.00219	0.008133	-0.00551	0.001505	-0.00174	-0.00135	0.001085
-0.02146	-0.0249	0.004724	0.006133	0.00605	-0.0078	-0.00052	-0.00228	0.008138	-0.00553	0.001513	-0.00174	-0.00135	0.001085
-0.0045	-0.01859	0.003121	0.004006	0.006602	-0.00783	-0.00079	-0.00237	0.008142	-0.00554	0.00152	-0.00175	-0.00135	0.001085
0.01597	-0.01148	0.00148	0.001775	0.007095	-0.00782	-0.00107	-0.00245	0.008145	-0.00555	0.001527	-0.00175	-0.00135	0.001085
0.042531	-0.00383	-0.00018	-0.00052	0.007517	-0.00774	-0.00135	-0.00254	0.008146	-0.00556	0.001535	-0.00176	-0.00135	0.001085
0.044815	0.004067	-0.00183	-0.00283	0.007858	-0.00761	-0.00162	-0.00262	0.008145	-0.00557	0.001542	-0.00176	-0.00135	0.001085
0.032224	0.011938	-0.00346	-0.00512	0.008104	-0.00742	-0.0019	-0.00271	0.008143	-0.00558	0.001549	-0.00176	-0.00134	0.001085
0.025658	0.019524	-0.00504	-0.00734	0.008247	-0.00717	-0.00218	-0.00279	0.008139	-0.00559	0.001556	-0.00177	-0.00134	0.001085
0.01063	0.026577	-0.00656	-0.00945	0.008273	-0.00685	-0.00245	-0.00287	0.008134	-0.0056	0.001562	-0.00177	-0.00134	0.001085
0.000898	0.032844	-0.00798	-0.01142	0.008173	-0.00647	-0.00272	-0.00295	0.008127	-0.00561	0.001569	-0.00177	-0.00134	0.001085
-0.01201	0.038077	-0.0093	-0.01318	0.007937	-0.00604	-0.00298	-0.00303	0.008119	-0.00561	0.001576	-0.00178	-0.00134	0.001085

-0.01964	0.042023	-0.01049	-0.01472	0.007558	-0.00554	-0.00324	-0.00311	0.008109	-0.00562	0.001582	-0.00178	-0.00133	0.001085
-0.03546	0.044447	-0.01153	-0.01597	0.007028	-0.00498	-0.00349	-0.00318	0.008098	-0.00562	0.001588	-0.00179	-0.00133	0.001085
-0.04315	0.045156	-0.01248	-0.0169	0.006345	-0.00437	-0.00374	-0.00326	0.008085	-0.00562	0.001595	-0.00179	-0.00133	0.001085
-0.04621	0.043924	-0.01334	-0.01747	0.005508	-0.00373	-0.00398	-0.00333	0.008071	-0.00562	0.001601	-0.00179	-0.00133	0.001085
-0.04942	0.040496	-0.01407	-0.01764	0.004512	-0.00304	-0.00421	-0.0034	0.008055	-0.00562	0.001607	-0.0018	-0.00133	0.001085
-0.04715	0.034779	-0.01464	-0.01735	0.003361	-0.00233	-0.00443	-0.00347	0.008037	-0.00562	0.001613	-0.0018	-0.00133	0.001085
-0.03563	0.02732	-0.01502	-0.0166	0.002072	-0.0016	-0.00464	-0.00354	0.008019	-0.00562	0.001619	-0.0018	-0.00132	0.001085
-0.02444	0.018652	-0.01519	-0.01538	0.000677	-0.00086	-0.00485	-0.00361	0.007998	-0.00562	0.001625	-0.00181	-0.00132	0.001085
-0.01126	0.00926	-0.0151	-0.01367	-0.00079	-0.00011	-0.00504	-0.00367	0.007976	-0.00562	0.00163	-0.00181	-0.00132	0.001085
0.001921	-0.00037	-0.01473	-0.01147	-0.0023	0.000629	-0.00522	-0.00374	0.007953	-0.00562	0.001636	-0.00182	-0.00132	0.001086
0.014552	-0.00975	-0.01401	-0.0088	-0.00381	0.001362	-0.00538	-0.0038	0.007928	-0.00561	0.001641	-0.00182	-0.00132	0.001086
0.024757	-0.0184	-0.01285	-0.00572	-0.0053	0.002077	-0.00554	-0.00386	0.007902	-0.00561	0.001646	-0.00182	-0.00132	0.001086
0.034127	-0.02584	-0.01111	-0.00232	-0.00673	0.002767	-0.00568	-0.00392	0.007874	-0.0056	0.001652	-0.00183	-0.00131	0.001086
0.038745	-0.03157	-0.00862	0.001258	-0.00807	0.003423	-0.0058	-0.00397	0.007845	-0.00559	0.001657	-0.00183	-0.00131	0.001086
0.037226	-0.03528	-0.00524	0.004912	-0.00928	0.004038	-0.00591	-0.00403	0.007814	-0.00558	0.001662	-0.00183	-0.00131	0.001086
0.030695	-0.03675	-0.00091	0.008518	-0.01033	0.004605	-0.006	-0.00408	0.007782	-0.00558	0.001667	-0.00184	-0.00131	0.001086
0.020323	-0.03348	0.00417	0.011957	-0.01119	0.005116	-0.00608	-0.00413	0.007749	-0.00557	0.001672	-0.00184	-0.00131	0.001086
0.00155	-0.0232	0.009321	0.01511	-0.01183	0.005564	-0.00613	-0.00418	0.007714	-0.00556	0.001676	-0.00184	-0.0013	0.001086
-0.0097	-0.00729	0.013746	0.017858	-0.01221	0.005941	-0.00617	-0.00423	0.007678	-0.00554	0.001681	-0.00185	-0.0013	0.001086
-0.02457	0.010995	0.016649	0.020082	-0.0123	0.006239	-0.00619	-0.00427	0.00764	-0.00553	0.001685	-0.00185	-0.0013	0.001086
-0.02402	0.025745	0.017235	0.021664	-0.01207	0.006457	-0.00619	-0.00431	0.007601	-0.00552	0.00169	-0.00185	-0.0013	0.001086
-0.0167	0.030684	0.014721	0.022471	-0.0115	0.006594	-0.00617	-0.00435	0.00756	-0.00551	0.001694	-0.00186	-0.0013	0.001086
0.015908	0.019181	0.008783	0.022347	-0.01058	0.006654	-0.00613	-0.00439	0.007518	-0.00549	0.001698	-0.00186	-0.00129	0.001086
-0.01292	-0.00882	0.000729	0.021233	-0.00933	0.00664	-0.00606	-0.00442	0.007475	-0.00548	0.001702	-0.00187	-0.00129	0.001086
-0.00548	-0.02704	-0.00773	0.019108	-0.00779	0.006556	-0.00597	-0.00446	0.00743	-0.00546	0.001706	-0.00187	-0.00129	0.001086
0.007323	-0.02703	-0.01487	0.015953	-0.00603	0.006407	-0.00587	-0.00449	0.007384	-0.00544	0.00171	-0.00187	-0.00129	0.001086
-0.00504	-0.01365	-0.01919	0.01175	-0.00409	0.006196	-0.00574	-0.00452	0.007337	-0.00543	0.001714	-0.00188	-0.00129	0.001086
0.003317	-0.00129	-0.02002	0.006482	-0.00202	0.005929	-0.00559	-0.00454	0.007288	-0.00541	0.001718	-0.00188	-0.00129	0.001086
-0.00223	0.016662	-0.017	0.000236	0.00013	0.005609	-0.00543	-0.00457	0.007238	-0.00539	0.001721	-0.00188	-0.00128	0.001086
0.001724	0.024738	-0.01017	-0.00649	0.002301	0.005242	-0.00525	-0.00459	0.007187	-0.00537	0.001725	-0.00189	-0.00128	0.001086
-0.0016	0.015416	-0.00013	-0.01311	0.004445	0.004832	-0.00505	-0.00461	0.007134	-0.00535	0.001728	-0.00189	-0.00128	0.001086
0.001617	-0.00058	0.010672	-0.01903	0.006512	0.004384	-0.00484	-0.00462	0.00708	-0.00533	0.001732	-0.00189	-0.00128	0.001086
0.000733	-0.01646	0.019334	-0.02367	0.008449	0.003901	-0.00461	-0.00464	0.007025	-0.0053	0.001735	-0.0019	-0.00128	0.001086
-0.0015	-0.02437	0.022951	-0.02644	0.010205	0.003389	-0.00438	-0.00465	0.006968	-0.00528	0.001738	-0.0019	-0.00127	0.001086
0.00122	-0.01911	0.019542	-0.02691	0.011735	0.002852	-0.00413	-0.00466	0.00691	-0.00526	0.001741	-0.0019	-0.00127	0.001086
-0.00084	-0.00815	0.010801	-0.02526	0.013014	0.002294	-0.00386	-0.00467	0.006851	-0.00524	0.001744	-0.00191	-0.00127	0.001086
0.000505	0.003996	-0.00065	-0.02185	0.014034	0.001721	-0.00359	-0.00467	0.00679	-0.00521	0.001747	-0.00191	-0.00127	0.001086
-0.00037	0.016595	-0.01221	-0.01703	0.014789	0.001135	-0.00331	-0.00467	0.006728	-0.00519	0.001749	-0.00191	-0.00127	0.001085
-5.51E-05	0.025834	-0.02125	-0.01116	0.015273	0.000543	-0.00303	-0.00468	0.006665	-0.00516	0.001752	-0.00191	-0.00126	0.001085
0.00081	0.026104	-0.02569	-0.00456	0.015479	-5.10E-05	-0.00273	-0.00467	0.006601	-0.00513	0.001755	-0.00192	-0.00126	0.001085
-0.00133	0.015298	-0.02562	0.002487	0.015401	-0.00064	-0.00243	-0.00467	0.006535	-0.00511	0.001757	-0.00192	-0.00126	0.001085
0.001956	-0.00382	-0.02171	0.009588	0.015033	-0.00123	-0.00212	-0.00466	0.006468	-0.00508	0.001759	-0.00192	-0.00126	0.001085
-0.00086	-0.02032	-0.01468	0.016305	0.01437	-0.00181	-0.00181	-0.00465	0.0064	-0.00505	0.001762	-0.00193	-0.00126	0.001085
-0.00325	-0.02677	-0.00519	0.0222	0.013407	-0.00237	-0.0015	-0.00464	0.006331	-0.00502	0.001764	-0.00193	-0.00125	0.001085
0.003771	-0.01839	0.005969	0.026837	0.012138	-0.00291	-0.00118	-0.00463	0.00626	-0.00499	0.001766	-0.00193	-0.00125	0.001085
-0.00413	0.001948	0.016781	0.029778	0.010557	-0.00344	-0.00087	-0.00461	0.006188	-0.00496	0.001768	-0.00194	-0.00125	0.001085
0.004148	0.021998	0.024925	0.030581	0.008663	-0.00394	-0.00055	-0.0046	0.006115	-0.00493	0.00177	-0.00194	-0.00125	0.001085
0.00433	0.025477	0.028053	0.028804	0.006477	-0.0044	-0.00024	-0.00457	0.00604	-0.0049	0.001772	-0.00194	-0.00125	0.001085
-0.00419	0.007037	0.024522	0.024231	0.004061	-0.00484	7.75E-05	-0.00455	0.005965	-0.00486	0.001773	-0.00195	-0.00124	0.001085
0.003976	-0.00677	0.015797	0.017411	0.001485	-0.00524	0.000389	-0.00453	0.005888	-0.00483	0.001775	-0.00195	-0.00124	0.001085
-0.00378	-0.0088	0.004127	0.009078	-0.00118	-0.0056	0.000696	-0.0045	0.005809	-0.0048	0.001776	-0.00195	-0.00124	0.001085
0.000887	-0.01518	-0.00824	-3.17E-05	-0.00386	-0.00592	0.000998	-0.00447	0.00573	-0.00476	0.001778	-0.00196	-0.00124	0.001085
0.003742	-0.02053	-0.01906	-0.00918	-0.0065	-0.00619	0.001295	-0.00443	0.005649	-0.00473	0.001779	-0.00196	-0.00124	0.001085
-8.87E-06	-0.01789	-0.02621	-0.01764	-0.00901	-0.00641	0.001585	-0.0044	0.005567	-0.00469	0.001781	-0.00196	-0.00123	0.001085
-0.00437	-0.00948	-0.02856	-0.02467	-0.01132	-0.00657	0.001868	-0.00436	0.005484	-0.00466	0.001782	-0.00196	-0.00123	0.001085
0.003476	-0.00055	-0.02699	-0.02961	-0.01338	-0.00667	0.002142	-0.00432	0.005399	-0.00462	0.001783	-0.00197	-0.00123	0.001085
0.005569	0.006611	-0.02258	-0.03218	-0.0151	-0.00672	0.002408	-0.00428	0.005313	-0.00459	0.001784	-0.00197	-0.00123	0.001085
-0.00212	0.010826	-0.01599	-0.03263	-0.01642	-0.00669	0.002664	-0.00423	0.005226	-0.00455	0.001785	-0.00197	-0.00123	0.001084
-0.00695	0.011982	-0.00773	-0.03128	-0.01728	-0.0066	0.002911	-0.00418	0.005138	-0.00451	0.001786	-0.00198	-0.00122	0.001084
0.001222	0.010646	0.001632	-0.02838	-0.01771	-0.00644	0.003148	-0.00413	0.005048	-0.00447	0.001786	-0.00198	-0.00122	0.001084
0.005062	0.006942	0.011339	-0.02417	-0.01775	-0.0062	0.003375	-0.00408	0.004957	-0.00443	0.001787	-0.00198	-0.00122	0.001084
0.008329	0.001329	0.020093	-0.01888	-0.01743	-0.0059	0.003592	-0.00402	0.004865	-0.00439	0.001787	-0.00198	-0.00122	0.001084
-0.00517	-0.00466	0.026206	-0.01274	-0.01679	-0.00553	0.003799	-0.00396	0.004772	-0.00435	0.001788	-0.00199	-0.00122	0.001084
-0.00819	-0.00644	0.027798	-0.00599	-0.01586	-0.0051	0.003994	-0.0039	0.004677	-0.00431	0.001788	-0.00199	-0.00121	0.001084
-0.00776	-0.00077	0.02352	0.001134	-0.01467	-0.00462	0.004179	-0.00384	0.004582	-0.00427	0.001789	-0.00199	-0.00121	0.001084
0.007054	0.005515	0.015002	0.008347	-0.01326	-0.0041	0.004353	-0.00377	0.004485	-0.00423	0.001789	-0.002	-0.00121	0.001084
0.006521	0.00512	0.004688	0.015307	-0.01165	-0.00353	0.004514	-0.0037	0.004387	-0.00419	0.001789	-0.002	-0.00121	0.001084
-0.00011	0.000139	-0.00589	0.021618	-0.00989	-0.00293	0.004665	-0.00363	0.004287	-0.00415	0.001789	-0.002	-0.0012	0.001084
-0.00417	-0.00496	-0.01546	0.02687	-0.008	-0.0023	0.004803	-0.00356	0.004187	-0.0041	0.001789	-0.002	-0.0012	0.001083
-0.0032	-0.00643	-0.02275	0.030655	-0.00602	-0.00165	0.004929	-0.00348	0.004086	-0.00406	0.001789	-0.00201	-0.0012	0.001083
0.002306	-0.00368	-0.02669	0.032579	-0.00399	-0.00098	0.005042	-0.0034	0.003983	-0.00402	0.001789	-0.00201	-0.0012	0.001083
-0.00163	0.001043	-0.02712	0.032296	-0.00192	-0.0003	0.005142	-0.00332	0.003879	-0.00397	0.001788	-0.00201	-0.0012	0.001083
0.00119	0.003463	-0.02418	0.029594	0.000173	0.000392	0.00523	-0.00324	0.003775	-0.00393	0.001788	-0.00201	-0.00119	0.001083
-0.00048	0.007134	-0.01858	0.024831	0.002267	0.001079	0.005304	-0.00315	0.003669	-0.00389	0.001788	-0.00202	-0.00119	0.001083
-0.00096	0.010818	-0.01118	0.018512	0.00434	0.001761	0.005364	-0.00306	0.003563	-0.00384	0.001787	-0.00202	-0.00119	0.001083
-0.0009	0.012907	-0.00281	0.011142	0.006366	0.002431	0.005411	-0.00297	0.003455	-0.00379	0.001787	-0.00202	-0.00119	0.001083
0.000392	0.014902	0.005677	0.003228	0.008319	0.003084	0.005443	-0.00288	0.003347	-0.00375	0.001786	-0.00202	-0.00119	0.001083
0.001384	0.016472	0.01343	-0.00472	0.010171	0.003713	0.005461	-0.00278	0.003238	-0.0037	0.001785	-0.00203	-0.00118	0.001083
-0.00151	0.015654	0.01972	-0.01222	0.011896	0.004314	0.005465	-0.00268	0.003128	-0.00366	0.001784	-0.00203	-0.00118	0.001082
-0.00085	0.011862	0.024295	-0.01878	0.013468	0.00488	0.005453	-0.00258	0.003018	-0.00361	0.001783	-0.00203	-0.00118	0.001082
0.00158	0.00723	0.027065	-0.02403	0.014861	0.005405	0.005427	-0.00248	0.002907	-0.00356	0.001782	-0.00203	-0.00118	0.001082
0.000507	0.001976	0.027793	-0.02764	0.016047	0.005884	0.005385	-0.00238	0.002795	-0.00351	0.001781	-0.00204	-0.00118	0.001082
-0.00156	-0.00619	0.026384	-0.0295	0.017001	0.006311	0.005328	-0.00227	0.002682	-0.00347	0.00178	-0.00204	-0.00117	0.001082
0.000604	-0.01788	0.022974	-0.02974	0.017702	0.00668	0.005255	-0.00216	0.002569	-0.00342	0.001779	-0.00204	-0.00117	0.001082
0.001716	-0.02831	0.017748	-0.02855	0.018152	0.006985	0.005166	-0.00205	0.002455	-0.00337	0.001778	-0.00204	-0.00117	0.001082
-0.00194	-0.02937	0.010887	-0.02614	0.018372	0.007221	0.005062	-0.00194	0.002341	-0.00332	0.001776	-0.00205	-0.00117	0.001082
0.002248	-0.01714	0.002695	-0.02273	0.01838	0.007382	0.004941	-0.00182	0.002226	-0.00327	0.001775	-0.00205	-0.00116	0.001081
-0.0026	0.005806	-0.00606	-0.01853	0.018195	0.007464	0.004803	-0.00171	0.002111	-0.00322	0.001773	-0.00205	-0.00116	0.001081
0.002905	0.027351	-0.01448	-0.01375	0.017829	0.007469	0.00465	-0.00159	0.001995	-0.00317	0.001772	-0.00205	-0.00116	0.001081
0.001016	0.033848	-0.02167	-0.0086	0.01729	0.007403	0.004481	-0.00147	0.001879	-0.00312	0.00177	-0.00206	-0.00116	0.001081
-0.00316	0.02332	-0.02689	-0.00331	0.016589	0.007269	0.004298	-0.00135	0.001763	-0.00307	0.001768	-0.00206	-0.00116	0.001081
0.003039	0.004463	-0.02995	0.00188	0.015734	0.007071	0.004102	-0.00123	0.001646	-0.00302	0.001766	-0.00206	-0.00115	0.001081
-0.00275	-0.01332	-0.03082	0.006725	0.014735	0.006814	0.003892	-0.00111	0.001529	-0.00297	0.001765	-0.00206	-0.00115	0.001081

-0.00173	-0.02547	-0.02956	0.011075	0.013601	0.006502	0.003671	-0.00099	0.001412	-0.00291	0.001763	-0.00207	-0.00115	0.00108
0.00192	-0.03263	-0.0263	0.014861	0.012341	0.006138	0.003439	-0.00086	0.001294	-0.00286	0.001761	-0.00207	-0.00115	0.00108
0.000836	-0.03588	-0.02113	0.018033	0.010966	0.005727	0.003197	-0.00074	0.001177	-0.00281	0.001758	-0.00207	-0.00114	0.00108
-0.00126	-0.03522	-0.01396	0.020541	0.009483	0.005274	0.002945	-0.00061	0.001059	-0.00276	0.001756	-0.00207	-0.00114	0.00108
0.001162	-0.03138	-0.00536	0.022333	0.007905	0.004782	0.002685	-0.00049	0.000941	-0.00271	0.001754	-0.00207	-0.00114	0.00108
-0.00032	-0.02364	0.00393	0.023349	0.006249	0.004255	0.002417	-0.00036	0.000823	-0.00265	0.001752	-0.00208	-0.00114	0.00108
-0.0016	-0.01481	0.013173	0.023528	0.004533	0.003697	0.002143	-0.00024	0.000705	-0.0026	0.001749	-0.00208	-0.00114	0.001079
0.002099	-0.00788	0.021623	0.022807	0.002782	0.003113	0.001862	-0.00011	0.000587	-0.00255	0.001747	-0.00208	-0.00113	0.001079
-0.00217	-0.00084	0.028539	0.021125	0.001014	0.002507	0.001577	1.57E-05	0.000469	-0.00249	0.001744	-0.00208	-0.00113	0.001079
-0.00319	0.007189	0.033174	0.018428	-0.00075	0.001883	0.001288	0.000142	0.000351	-0.00244	0.001742	-0.00209	-0.00113	0.001079
-0.00409	0.015926	0.034713	0.014729	-0.0025	0.001245	0.000995	0.000268	0.000234	-0.00239	0.001739	-0.00209	-0.00113	0.001079
0.004678	0.02331	0.032166	0.010249	-0.00422	0.000598	0.0007	0.000394	0.000116	-0.00233	0.001736	-0.00209	-0.00112	0.001079
0.00214	0.026798	0.024764	0.005282	-0.00588	-5.59E-05	0.000404	0.00052	-1.44E-06	-0.00228	0.001734	-0.00209	-0.00112	0.001078
-0.00544	0.02611	0.012832	0.000131	-0.00747	-0.00071	0.000107	0.000645	-0.00012	-0.00223	0.001731	-0.00209	-0.00112	0.001078
-0.00059	0.020487	-0.00161	-0.0049	-0.00897	-0.00136	-0.00019	0.000769	-0.00024	-0.00217	0.001728	-0.0021	-0.00112	0.001078
0.001351	0.01063	-0.01617	-0.00951	-0.01037	-0.00201	-0.00049	0.000893	-0.00035	-0.00212	0.001725	-0.0021	-0.00112	0.001078
0.005431	-0.00095	-0.02844	-0.0134	-0.01164	-0.00264	-0.00078	0.001017	-0.00047	-0.00206	0.001722	-0.0021	-0.00111	0.001078
-0.00048	-0.01117	-0.03601	-0.01627	-0.01277	-0.00326	-0.00107	0.001139	-0.00058	-0.00201	0.001719	-0.0021	-0.00111	0.001078
-0.00475	-0.01611	-0.0365	-0.01781	-0.01375	-0.00386	-0.00136	0.00126	-0.0007	-0.00195	0.001715	-0.0021	-0.00111	0.001077
0.00428	-0.01321	-0.02847	-0.01782	-0.01455	-0.00444	-0.00164	0.001381	-0.00082	-0.0019	0.001712	-0.00211	-0.00111	0.001077
-0.00378	-0.00569	-0.01439	-0.01651	-0.01516	-0.00499	-0.00192	0.0015	-0.00093	-0.00184	0.001709	-0.00211	-0.0011	0.001077
-0.00287	0.002763	0.002271	-0.01417	-0.01557	-0.00551	-0.00219	0.001618	-0.00104	-0.00179	0.001706	-0.00211	-0.0011	0.001077
0.002897	0.008696	0.01808	-0.0111	-0.01578	-0.00599	-0.00246	0.001734	-0.00116	-0.00173	0.001702	-0.00211	-0.0011	0.001077
0.001403	0.008449	0.029914	-0.00756	-0.01581	-0.00643	-0.00271	0.001849	-0.00127	-0.00168	0.001699	-0.00211	-0.0011	0.001076
-0.00244	0.001115	0.036199	-0.00385	-0.01567	-0.00683	-0.00296	0.001963	-0.00138	-0.00162	0.001695	-0.00212	-0.00109	0.001076
0.002427	-0.00441	0.036432	-0.00024	-0.01536	-0.00719	-0.0032	0.002074	-0.0015	-0.00156	0.001691	-0.00212	-0.00109	0.001076
-0.00254	0.001607	0.030704	0.003024	-0.01489	-0.0075	-0.00343	0.002184	-0.00161	-0.00151	0.001688	-0.00212	-0.00109	0.001076
0.002717	0.002951	0.022683	0.005875	-0.01425	-0.00776	-0.00364	0.002293	-0.00172	-0.00145	0.001684	-0.00212	-0.00109	0.001076
-0.0029	-0.00283	0.015862	0.008282	-0.01347	-0.00799	-0.00385	0.002399	-0.00183	-0.0014	0.00168	-0.00212	-0.00109	0.001075
0.000803	-0.00156	0.007226	0.010218	-0.01253	-0.00817	-0.00404	0.002503	-0.00194	-0.00134	0.001676	-0.00212	-0.00108	0.001075
0.003141	0.003733	-0.00388	0.011653	-0.01144	-0.00831	-0.00421	0.002604	-0.00204	-0.00129	0.001672	-0.00213	-0.00108	0.001075
-0.00319	0.004958	-0.0165	0.012557	-0.01021	-0.00841	-0.00438	0.002704	-0.00215	-0.00123	0.001668	-0.00213	-0.00108	0.001075
0.00231	-0.00178	-0.02762	0.012904	-0.00884	-0.00848	-0.00452	0.002801	-0.00226	-0.00117	0.001664	-0.00213	-0.00108	0.001074
0.003207	-0.00913	-0.03424	0.012665	-0.00734	-0.0085	-0.00465	0.002895	-0.00236	-0.00112	0.00166	-0.00213	-0.00107	0.001074
-0.00321	-0.00994	-0.03416	0.011833	-0.00572	-0.0085	-0.00476	0.002987	-0.00247	-0.00106	0.001656	-0.00213	-0.00107	0.001074
0.002799	0.000889	-0.02814	0.010429	-0.00401	-0.00845	-0.00486	0.003076	-0.00257	-0.00101	0.001652	-0.00213	-0.00107	0.001074
0.003271	0.013679	-0.01859	0.008551	-0.00225	-0.00838	-0.00494	0.003162	-0.00267	-0.00095	0.001648	-0.00214	-0.00107	0.001074
0.000571	0.016377	-0.00814	0.006318	-0.00045	-0.00827	-0.005	0.003246	-0.00277	-0.00089	0.001643	-0.00214	-0.00106	0.001073
-0.00337	0.004852	0.001038	0.003854	0.001346	-0.00812	-0.00504	0.003326	-0.00287	-0.00084	0.001639	-0.00214	-0.00106	0.001073
0.003419	-0.01351	0.008666	0.00128	0.003097	-0.00794	-0.00507	0.003403	-0.00297	-0.00078	0.001635	-0.00214	-0.00106	0.001073
-0.00345	-0.02308	0.014944	-0.00128	0.004771	-0.00773	-0.00509	0.003477	-0.00307	-0.00073	0.00163	-0.00214	-0.00106	0.001073
0.003442	-0.01855	0.020027	-0.00371	0.006334	-0.00748	-0.00509	0.003548	-0.00317	-0.00067	0.001626	-0.00214	-0.00105	0.001072
0.000887	-0.00783	0.023917	-0.00588	0.007749	-0.0072	-0.00507	0.003615	-0.00326	-0.00061	0.001621	-0.00215	-0.00105	0.001072
-0.00042	0.005592	0.026576	-0.00766	0.008981	-0.00688	-0.00504	0.003679	-0.00336	-0.00056	0.001616	-0.00215	-0.00105	0.001072
-0.00309	0.018051	0.027967	-0.00895	0.009996	-0.00653	-0.005	0.003739	-0.00345	-0.0005	0.001612	-0.00215	-0.00105	0.001072
0.002821	0.024859	0.02805	-0.00963	0.01077	-0.00615	-0.00494	0.003797	-0.00354	-0.00045	0.001607	-0.00215	-0.00105	0.001071
-0.00247	0.031168	0.026818	-0.00962	0.011283	-0.00573	-0.00487	0.003851	-0.00363	-0.00039	0.001602	-0.00215	-0.00104	0.001071
-0.00172	0.03683	0.02438	-0.00898	0.011536	-0.00528	-0.00479	0.003901	-0.00372	-0.00033	0.001597	-0.00215	-0.00104	0.001071
0.001605	0.038625	0.02086	-0.00781	0.011546	-0.0048	-0.0047	0.003949	-0.00381	-0.00028	0.001592	-0.00216	-0.00104	0.001071
0.000662	0.034322	0.016367	-0.00624	0.011334	-0.00428	-0.0046	0.003993	-0.00389	-0.00022	0.001587	-0.00216	-0.00104	0.00107
-0.00083	0.026452	0.011157	-0.00437	0.010919	-0.00373	-0.00448	0.004034	-0.00398	-0.00017	0.001582	-0.00216	-0.00103	0.00107
0.000597	0.017673	0.005526	-0.00231	0.010325	-0.00315	-0.00436	0.004072	-0.00406	-0.00011	0.001577	-0.00216	-0.00103	0.00107
-0.00054	0.007036	-0.00023	-0.00017	0.009575	-0.00255	-0.00423	0.004106	-0.00414	-5.81E-05	0.001572	-0.00216	-0.00103	0.00107
0.000691	-0.00438	-0.00582	0.001944	0.008691	-0.00192	-0.00408	0.004138	-0.00422	-3.12E-06	0.001567	-0.00216	-0.00103	0.001069
-0.00104	-0.0144	-0.01093	0.003914	0.007699	-0.00127	-0.00393	0.004166	-0.0043	5.17E-05	0.001562	-0.00216	-0.00102	0.001069
0.001452	-0.02582	-0.01529	0.005634	0.006623	-0.00061	-0.00378	0.004191	-0.00437	0.000106	0.001557	-0.00217	-0.00102	0.001069
0.002139	-0.03753	-0.01858	0.006992	0.005485	5.71E-05	-0.00361	0.004214	-0.00445	0.000161	0.001551	-0.00217	-0.00102	0.001069
0.001027	-0.04716	-0.02053	0.00788	0.004311	0.000732	-0.00344	0.004233	-0.00452	0.000215	0.001546	-0.00217	-0.00102	0.001068
-0.00343	-0.05105	-0.02082	0.008186	0.003124	0.001409	-0.00326	0.004248	-0.00459	0.000269	0.001541	-0.00217	-0.00101	0.001068
0.004046	-0.04635	-0.01928	0.007842	0.001948	0.002083	-0.00307	0.004261	-0.00466	0.000324	0.001535	-0.00217	-0.00101	0.001068
0.001929	-0.03489	-0.01619	0.006926	0.000796	0.00275	-0.00288	0.004271	-0.00473	0.000377	0.00153	-0.00217	-0.00101	0.001067
3.96E-05	-0.01897	-0.01194	0.005556	-0.00032	0.003405	-0.00269	0.004278	-0.00479	0.000431	0.001524	-0.00217	-0.00101	0.001067
-0.00449	-0.00078	-0.00694	0.00385	-0.00139	0.004045	-0.00249	0.004282	-0.00485	0.000485	0.001519	-0.00218	-0.001	0.001067
-0.00625	0.017505	-0.00156	0.001923	-0.0024	0.004665	-0.00228	0.004283	-0.00492	0.000538	0.001513	-0.00218	-0.001	0.001067
-0.00647	0.034136	0.003786	-0.00011	-0.00334	0.005261	-0.00207	0.004281	-0.00498	0.000591	0.001507	-0.00218	-0.001	0.001066
-0.00394	0.04744	0.008717	-0.00212	-0.00419	0.005829	-0.00186	0.004277	-0.00503	0.000644	0.001502	-0.00218	-0.001	0.001066
0.005102	0.055462	0.012837	-0.004	-0.00496	0.006365	-0.00165	0.004269	-0.00509	0.000696	0.001496	-0.00218	-0.00099	0.001066
0.0075	0.056229	0.015751	-0.00563	-0.00561	0.006864	-0.00144	0.004259	-0.00514	0.000749	0.00149	-0.00218	-0.00099	0.001065
-0.00774	0.048187	0.017144	-0.0069	-0.00615	0.007324	-0.00122	0.004246	-0.0052	0.000801	0.001484	-0.00218	-0.00099	0.001065
-0.00242	0.031554	0.017038	-0.00773	-0.00657	0.00774	-0.001	0.004231	-0.00525	0.000853	0.001479	-0.00218	-0.00099	0.001065
-0.00044	0.010092	0.015638	-0.00813	-0.00684	0.00811	-0.00079	0.004212	-0.0053	0.000905	0.001473	-0.00218	-0.00098	0.001065
0.002984	-0.01304	0.013182	-0.00818	-0.00697	0.00843	-0.00057	0.004192	-0.00534	0.000956	0.001467	-0.00219	-0.00098	0.001064
0.007263	-0.03549	0.009903	-0.0079	-0.00696	0.008698	-0.00035	0.004168	-0.00539	0.001007	0.001461	-0.00219	-0.00098	0.001064
-0.00026	-0.05365	0.006036	-0.00735	-0.00682	0.008913	-0.00014	0.004143	-0.00543	0.001058	0.001455	-0.00219	-0.00098	0.001064
-0.00548	-0.05797	0.001817	-0.00655	-0.00656	0.009077	7.51E-05	0.004115	-0.00547	0.001109	0.001449	-0.00219	-0.00097	0.001063
0.004168	-0.04251	-0.00251	-0.00556	-0.00619	0.009193	0.000286	0.004085	-0.00551	0.001159	0.001442	-0.00219	-0.00097	0.001063
-0.0028	-0.02061	-0.00668	-0.00439	-0.00574	0.009264	0.000495	0.004052	-0.00555	0.001209	0.001436	-0.00219	-0.00097	0.001063
0.001735	-0.00163	-0.0104	-0.0031	-0.0052	0.009291	0.000701	0.004017	-0.00558	0.001259	0.00143	-0.00219	-0.00097	0.001062
-0.00128	0.017019	-0.01339	-0.00173	-0.0046	0.009277	0.000902	0.00398	-0.00562	0.001309	0.001424	-0.00219	-0.00096	0.001062
0.001471	0.033539	-0.01538	-0.0003	-0.00396	0.009225	0.0011	0.003941	-0.00565	0.001358	0.001418	-0.00219	-0.00096	0.001062
-0.00208	0.050773	-0.01607	0.001134	-0.00327	0.009137	0.001293	0.0039	-0.00568	0.001406	0.001411	-0.0022	-0.00096	0.001061
0.002723	0.059253	-0.01518	0.00253	-0.00256	0.009015	0.001482	0.003857	-0.00571	0.001455	0.001405	-0.0022	-0.00096	0.001061
-0.00314	0.046272	-0.01257	0.003859	-0.00183	0.008862	0.001666	0.003813	-0.00573	0.001503	0.001399	-0.0022	-0.00095	0.001061
0.001707	0.020247	-0.0086	0.005097	-0.00111	0.008679	0.001846	0.003766	-0.00576	0.001551	0.001392	-0.0022	-0.00095	0.001061
0.003079	-0.00849	-0.0038	0.006221	-0.00041	0.008469	0.00202	0.003717	-0.00578	0.001598	0.001386	-0.0022	-0.00095	0.00106
0.001443	-0.03335	0.001341	0.007209	0.000264	0.008233	0.00219	0.003667	-0.0058	0.001645	0.001379	-0.0022	-0.00095	0.00106
-0.0023	-0.05131	0.006314	0.008036	0.000895	0.007974	0.002355	0.003615	-0.00582	0.001692	0.001373	-0.0022	-0.00094	0.00106
-0.00137	-0.06067	0.010613	0.00868	0.00147	0.007694	0.002516	0.003561	-0.00584	0.001738	0.001366	-0.0022	-0.00094	0.001059
0.00053	-0.06044	0.013839	0.009118	0.001976	0.007394	0.002671	0.003506	-0.00586	0.001784	0.00136	-0.0022	-0.00094	0.001059
0.001091	-0.0523	0.016016	0.009326	0.002398	0.007078	0.002822	0.003449	-0.00587	0.00183	0.001353	-0.0022	-0.00094	0.001058
-0.00041	-0.03794	0.017272	0.009278	0.002726	0.006746	0.002968	0.003391	-0.00588	0.001875	0.001347	-0.0022	-0.00093	0.001058
-0.00091	-0.01901	0.017736	0.008938	0.002962	0.006401	0.003109	0.003331	-0.0059	0.001919	0.00134	-0.00221	-0.00093	0.001058
0.001095	0.002703	0.017519	0.008282	0.003109	0.006047	0.003245	0.00327	-0.00591	0.001964	0.001333	-0.00221	-0.00093	0.001057

-0.00144	0.02425	0.016678	0.00734	0.003174	0.005685	0.003376	0.003208	-0.00591	0.002008	0.001327	-0.00221	-0.00093	0.001057
0.000781	0.040928	0.015252	0.006157	0.003161	0.00532	0.003502	0.003145	-0.00592	0.002051	0.00132	-0.00221	-0.00092	0.001057
0.002516	0.052076	0.013283	0.00478	0.003079	0.004952	0.003623	0.00308	-0.00592	0.002094	0.001313	-0.00221	-0.00092	0.001056
-0.00321	0.059373	0.010812	0.003253	0.002936	0.00458	0.003739	0.003014	-0.00593	0.002137	0.001306	-0.00221	-0.00092	0.001056
0.004006	0.063224	0.007885	0.001621	0.002741	0.004206	0.003849	0.002947	-0.00593	0.002179	0.001299	-0.00221	-0.00092	0.001056
-0.00492	0.061068	0.004579	-6.90E-05	0.002502	0.003828	0.003955	0.002879	-0.00593	0.002221	0.001292	-0.00221	-0.00091	0.001055
-0.00452	0.04929	0.00101	-0.00177	0.002228	0.003447	0.004056	0.00281	-0.00592	0.002262	0.001286	-0.00221	-0.00091	0.001055
0.001716	0.031614	-0.00269	-0.00345	0.001927	0.003063	0.004152	0.00274	-0.00592	0.002303	0.001279	-0.00221	-0.00091	0.001055
0.006769	0.012837	-0.00641	-0.00504	0.001608	0.002675	0.004242	0.00267	-0.00591	0.002344	0.001272	-0.00221	-0.00091	0.001054
0.009612	-0.00263	-0.01	-0.00651	0.00128	0.002284	0.004327	0.002598	-0.00591	0.002384	0.001265	-0.00221	-0.0009	0.001054
0.004451	-0.01202	-0.01335	-0.00782	0.000951	0.00189	0.004407	0.002526	-0.0059	0.002423	0.001258	-0.00221	-0.0009	0.001054
-0.00421	-0.01717	-0.01633	-0.00891	0.000629	0.001492	0.004482	0.002453	-0.00589	0.002463	0.001251	-0.00222	-0.0009	0.001053
-0.01371	-0.02102	-0.01882	-0.00975	0.000324	0.00109	0.004552	0.00238	-0.00588	0.002502	0.001244	-0.00222	-0.00089	0.001053
0.014149	-0.02606	-0.02067	-0.01028	4.37E-05	0.000684	0.004616	0.002306	-0.00586	0.00254	0.001237	-0.00222	-0.00089	0.001052
0.016427	-0.03325	-0.02178	-0.01046	-0.0002	0.000275	0.004675	0.002231	-0.00585	0.002578	0.001229	-0.00222	-0.00089	0.001052
0.015134	-0.04338	-0.022	-0.01026	-0.00041	-0.00014	0.004729	0.002156	-0.00583	0.002616	0.001222	-0.00222	-0.00089	0.001052
0.014932	-0.05395	-0.02116	-0.00967	-0.00058	-0.00055	0.004777	0.002081	-0.00582	0.002653	0.001215	-0.00222	-0.00088	0.001051
0.007555	-0.06155	-0.01902	-0.00873	-0.00072	-0.00097	0.00482	0.002005	-0.0058	0.00269	0.001208	-0.00222	-0.00088	0.001051
-0.01169	-0.06272	-0.01543	-0.0075	-0.00082	-0.0014	0.004858	0.001929	-0.00578	0.002726	0.001201	-0.00222	-0.00088	0.00105
-0.02294	-0.05361	-0.01059	-0.00604	-0.00088	-0.00183	0.00489	0.001853	-0.00576	0.002762	0.001194	-0.00222	-0.00088	0.00105
-0.02306	-0.032	-0.00491	-0.0044	-0.00092	-0.00226	0.004917	0.001776	-0.00573	0.002798	0.001186	-0.00222	-0.00087	0.00105
-0.02155	-0.00298	0.001162	-0.00262	-0.00093	-0.00269	0.004938	0.001699	-0.00571	0.002833	0.001179	-0.00222	-0.00087	0.001049
-0.0073	0.026398	0.007197	-0.00078	-0.0009	-0.00313	0.004954	0.001623	-0.00568	0.002868	0.001172	-0.00222	-0.00087	0.001049
0.024983	0.049102	0.012748	0.001085	-0.00086	-0.00357	0.004964	0.001546	-0.00566	0.002903	0.001164	-0.00222	-0.00087	0.001049
0.015334	0.059412	0.017375	0.002912	-0.0008	-0.004	0.004969	0.001469	-0.00563	0.002937	0.001157	-0.00222	-0.00086	0.001048
-0.00544	0.057325	0.020721	0.00465	-0.00072	-0.00443	0.004969	0.001392	-0.0056	0.00297	0.00115	-0.00222	-0.00086	0.001048
-0.00932	0.045665	0.022783	0.006244	-0.00063	-0.00485	0.004963	0.001315	-0.00557	0.003003	0.001142	-0.00222	-0.00086	0.001047
-0.01889	0.027576	0.023693	0.007639	-0.00052	-0.00527	0.004951	0.001238	-0.00553	0.003036	0.001135	-0.00222	-0.00086	0.001047
-0.01985	0.006193	0.023594	0.008786	-0.00042	-0.00567	0.004935	0.001161	-0.0055	0.003069	0.001128	-0.00222	-0.00085	0.001046
-0.0253	-0.01535	0.022602	0.009662	-0.00031	-0.00606	0.004913	0.001084	-0.00547	0.003101	0.00112	-0.00222	-0.00085	0.001046
-0.02573	-0.03393	0.020798	0.010275	-0.00019	-0.00644	0.004885	0.001007	-0.00543	0.003133	0.001113	-0.00223	-0.00085	0.001046
-0.00013	-0.04665	0.018256	0.010646	-8.46E-05	-0.0068	0.004852	0.00093	-0.00539	0.003164	0.001105	-0.00223	-0.00084	0.001045
0.013444	-0.05168	0.015048	0.010795	1.89E-05	-0.00714	0.004814	0.000853	-0.00536	0.003195	0.001098	-0.00223	-0.00084	0.001045
0.025031	-0.04741	0.011262	0.010744	0.000113	-0.00746	0.004771	0.000776	-0.00532	0.003225	0.00109	-0.00223	-0.00084	0.001044
0.012255	-0.03348	0.007055	0.010515	0.000193	-0.00777	0.004722	0.0007	-0.00528	0.003256	0.001083	-0.00223	-0.00084	0.001044
-0.00336	-0.01407	0.002601	0.010126	0.000257	-0.00805	0.004667	0.000624	-0.00523	0.003285	0.001075	-0.00223	-0.00083	0.001044
-0.02422	0.005507	-0.00193	0.009596	0.000305	-0.00831	0.004608	0.000547	-0.00519	0.003315	0.001068	-0.00223	-0.00083	0.001043
-0.0204	0.020907	-0.00635	0.008942	0.000336	-0.00855	0.004543	0.000471	-0.00515	0.003344	0.00106	-0.00223	-0.00083	0.001043
-0.00517	0.031667	-0.01051	0.008182	0.000351	-0.00876	0.004473	0.000396	-0.0051	0.003372	0.001053	-0.00223	-0.00083	0.001042
0.014437	0.038298	-0.01421	0.007334	0.000349	-0.00894	0.004398	0.00032	-0.00506	0.003401	0.001045	-0.00223	-0.00082	0.001042
0.023538	0.041315	-0.0173	0.006416	0.000332	-0.0091	0.004317	0.000245	-0.00501	0.003429	0.001037	-0.00223	-0.00082	0.001041
0.016889	0.041222	-0.01964	0.005445	0.0003	-0.00922	0.004231	0.00017	-0.00496	0.003456	0.00103	-0.00223	-0.00082	0.001041
0.014501	0.03843	-0.02116	0.004438	0.000255	-0.00932	0.00414	9.54E-05	-0.00491	0.003483	0.001022	-0.00223	-0.00082	0.001041
0.008895	0.033432	-0.02195	0.003415	0.000197	-0.0094	0.004044	2.10E-05	-0.00486	0.00351	0.001015	-0.00223	-0.00081	0.00104
0.002181	0.026754	-0.02211	0.002391	0.000128	-0.00944	0.003942	-5.29E-05	-0.00481	0.003537	0.001007	-0.00223	-0.00081	0.00104
-0.00547	0.018918	-0.02172	0.001382	4.88E-05	-0.00946	0.003835	-0.00013	-0.00476	0.003563	0.000999	-0.00223	-0.00081	0.001039
-0.01246	0.010448	-0.02088	0.00039	-3.83E-05	-0.00945	0.003723	-0.0002	-0.00471	0.003588	0.000992	-0.00223	-0.0008	0.001039
-0.02087	0.001867	-0.01968	-0.00058	-0.00013	-0.00941	0.003606	-0.00027	-0.00465	0.003614	0.000984	-0.00223	-0.0008	0.001038
-0.0245	-0.0063	-0.0182	-0.00153	-0.00023	-0.00934	0.003483	-0.00034	-0.0046	0.003639	0.000976	-0.00223	-0.0008	0.001038
-0.01022	-0.01354	-0.01652	-0.00246	-0.00033	-0.00925	0.003356	-0.00042	-0.00454	0.003663	0.000969	-0.00223	-0.0008	0.001037
-2.45E-05	-0.01942	-0.01475	-0.00335	-0.00044	-0.00913	0.003223	-0.00049	-0.00449	0.003687	0.000961	-0.00223	-0.00079	0.001037
0.011962	-0.02347	-0.01296	-0.0042	-0.00054	-0.00899	0.003085	-0.00056	-0.00443	0.003711	0.000953	-0.00223	-0.00079	0.001037
0.022525	-0.02529	-0.01125	-0.00501	-0.00064	-0.00882	0.002943	-0.00063	-0.00437	0.003735	0.000945	-0.00223	-0.00079	0.001036
0.026518	-0.02443	-0.00968	-0.00577	-0.00074	-0.00863	0.002796	-0.0007	-0.00431	0.003758	0.000938	-0.00223	-0.00079	0.001036
0.009196	-0.02078	-0.00823	-0.00648	-0.00083	-0.00842	0.002645	-0.00077	-0.00425	0.003781	0.00093	-0.00223	-0.00078	0.001035
0.000534	-0.01499	-0.00685	-0.00713	-0.00092	-0.00818	0.002489	-0.00084	-0.00419	0.003803	0.000922	-0.00223	-0.00078	0.001035
-0.01825	-0.00791	-0.00551	-0.00772	-0.001	-0.00792	0.00233	-0.00091	-0.00413	0.003825	0.000915	-0.00223	-0.00078	0.001034
-0.0285	-0.0004	-0.00415	-0.00824	-0.00106	-0.00764	0.002168	-0.00097	-0.00407	0.003847	0.000907	-0.00223	-0.00077	0.001034
-0.01708	0.006699	-0.00273	-0.00869	-0.00112	-0.00733	0.002002	-0.00104	-0.004	0.003868	0.000899	-0.00223	-0.00077	0.001033
-0.00507	0.012481	-0.00121	-0.00906	-0.00116	-0.00701	0.001833	-0.00111	-0.00394	0.003889	0.000891	-0.00223	-0.00077	0.001033
0.00951	0.016046	0.000459	-0.00934	-0.00118	-0.00667	0.001661	-0.00117	-0.00387	0.00391	0.000884	-0.00223	-0.00077	0.001032
0.030361	0.016486	0.002325	-0.00955	-0.00119	-0.00631	0.001486	-0.00124	-0.00381	0.00393	0.000876	-0.00223	-0.00076	0.001032
0.021576	0.013263	0.004426	-0.00966	-0.00118	-0.00594	0.00131	-0.0013	-0.00374	0.00395	0.000868	-0.00223	-0.00076	0.001031
0.005878	0.007429	0.006638	-0.00967	-0.00114	-0.00555	0.001131	-0.00136	-0.00368	0.00397	0.00086	-0.00223	-0.00076	0.001031
-0.0063	0.000437	0.008795	-0.00957	-0.00109	-0.00514	0.00095	-0.00143	-0.00361	0.003989	0.000853	-0.00223	-0.00076	0.00103
-0.02675	-0.00626	0.010731	-0.00937	-0.00101	-0.00472	0.000768	-0.00149	-0.00354	0.004008	0.000845	-0.00223	-0.00075	0.00103
-0.03209	-0.01122	0.012282	-0.00904	-0.00091	-0.00429	0.000585	-0.00155	-0.00347	0.004027	0.000837	-0.00223	-0.00075	0.001029
-0.01963	-0.01329	0.013282	-0.00859	-0.0008	-0.00385	0.0004	-0.00161	-0.0034	0.004045	0.000829	-0.00223	-0.00075	0.001029
-0.01202	-0.01266	0.013605	-0.008	-0.00066	-0.0034	0.000215	-0.00167	-0.00333	0.004063	0.000821	-0.00223	-0.00074	0.001028
0.001342	-0.00996	0.013289	-0.00727	-0.00051	-0.00294	2.86E-05	-0.00173	-0.00326	0.004081	0.000814	-0.00223	-0.00074	0.001028
0.012388	-0.00589	0.012417	-0.00639	-0.00034	-0.00247	-0.00016	-0.00179	-0.00319	0.004098	0.000806	-0.00223	-0.00074	0.001027
0.022742	-0.00112	0.011092	-0.00538	-0.00016	-0.002	-0.00034	-0.00184	-0.00312	0.004115	0.000798	-0.00223	-0.00074	0.001027
0.029645	0.003647	0.009419	-0.00427	3.99E-05	-0.00152	-0.00053	-0.0019	-0.00305	0.004132	0.00079	-0.00223	-0.00073	0.001026
0.033394	0.007732	0.007509	-0.00308	0.000248	-0.00104	-0.00072	-0.00195	-0.00298	0.004148	0.000783	-0.00223	-0.00073	0.001026
0.017641	0.010576	0.005472	-0.00184	0.000466	-0.00056	-0.0009	-0.00201	-0.0029	0.004164	0.000775	-0.00223	-0.00073	0.001025
0.014875	0.012135	0.003418	-0.00056	0.000694	-7.11E-05	-0.00109	-0.00206	-0.00283	0.00418	0.000767	-0.00223	-0.00072	0.001025
0.006368	0.012505	0.001449	0.000715	0.000929	0.000414	-0.00127	-0.00211	-0.00276	0.004195	0.000759	-0.00223	-0.00072	0.001024
0.001335	0.011823	-0.00038	0.00197	0.001171	0.000897	-0.00145	-0.00216	-0.00268	0.00421	0.000751	-0.00223	-0.00072	0.001024
-0.00396	0.010256	-0.00204	0.003178	0.001418	0.001378	-0.00163	-0.00221	-0.00261	0.004224	0.000744	-0.00223	-0.00072	0.001023
-0.00857	0.007973	-0.0035	0.004318	0.001668	0.001855	-0.00181	-0.00226	-0.00253	0.004239	0.000736	-0.00223	-0.00071	0.001023
-0.01591	0.005145	-0.00475	0.005367	0.001922	0.002327	-0.00198	-0.00231	-0.00246	0.004253	0.000728	-0.00223	-0.00071	0.001022
-0.02189	0.001942	-0.00576	0.006302	0.002176	0.002793	-0.00216	-0.00235	-0.00238	0.004266	0.00072	-0.00223	-0.00071	0.001022
-0.0289	-0.00147	-0.00651	0.007101	0.002431	0.003251	-0.00233	-0.0024	-0.00231	0.00428	0.000713	-0.00223	-0.00071	0.001021
-0.03467	-0.00491	-0.00698	0.007742	0.002684	0.003701	-0.0025	-0.00244	-0.00223	0.004293	0.000705	-0.00223	-0.0007	0.001021
-0.02407	-0.00821	-0.00716	0.00821	0.002934	0.004141	-0.00266	-0.00248	-0.00216	0.004306	0.000697	-0.00223	-0.0007	0.00102
-0.01035	-0.01118	-0.00703	0.008499	0.00318	0.00457	-0.00282	-0.00252	-0.00208	0.004318	0.00069	-0.00223	-0.0007	0.00102
0.002123	-0.01362	-0.0066	0.008612	0.003421	0.004986	-0.00298	-0.00256	-0.002	0.00433	0.000682	-0.00223	-0.00069	0.001019
0.01784	-0.01534	-0.00588	0.008559	0.003655	0.005388	-0.00313	-0.0026	-0.00193	0.004342	0.000674	-0.00222	-0.00069	0.001019
0.024578	-0.01613	-0.00488	0.008353	0.003879	0.005776	-0.00328	-0.00264	-0.00185	0.004353	0.000666	-0.00222	-0.00069	0.001018
0.026427	-0.01579	-0.00364	0.008007	0.004087	0.006148	-0.00343	-0.00267	-0.00177	0.004364	0.000659	-0.00222	-0.00069	0.001018
0.033592	-0.01405	-0.00223	0.007534	0.004277	0.006503	-0.00357	-0.00271	-0.0017	0.004375	0.000651	-0.00222	-0.00068	0.001017
0.035786	-0.01061	-0.00077	0.006944	0.004447	0.006839	-0.0037	-0.00274	-0.00162	0.004386	0.000643	-0.00222	-0.00068	0.001016
0.037812	-0.00518	0.000661	0.006247	0.004597	0.007155	-0.00383	-0.00277	-0.00154	0.004396	0.000636	-0.00222	-0.00068	0.001016

0.019439	0.00215	0.001946	0.005453	0.004726	0.007451	-0.00396	-0.0028	-0.00147	0.004406	0.000628	-0.00222	-0.00067	0.001015
-0.00275	0.009897	0.002989	0.004572	0.004833	0.007724	-0.00408	-0.00282	-0.00139	0.004416	0.000621	-0.00222	-0.00067	0.001015
-0.02377	0.016207	0.003689	0.003613	0.004917	0.007974	-0.00419	-0.00285	-0.00131	0.004425	0.000613	-0.00222	-0.00067	0.001014
-0.04043	0.019226	0.003942	0.002591	0.004979	0.008199	-0.0043	-0.00287	-0.00123	0.004434	0.000605	-0.00222	-0.00067	0.001014
-0.02569	0.017665	0.003671	0.001529	0.005016	0.008399	-0.0044	-0.0029	-0.00116	0.004443	0.000598	-0.00222	-0.00066	0.001013
-0.00715	0.012486	0.002966	0.000446	0.005028	0.008571	-0.00449	-0.00292	-0.00108	0.004451	0.00059	-0.00222	-0.00066	0.001013
0.014966	0.005212	0.001956	-0.00064	0.005014	0.008717	-0.00458	-0.00294	-0.001	0.004459	0.000583	-0.00222	-0.00066	0.001012
0.043777	-0.00263	0.000772	-0.00172	0.004971	0.008835	-0.00466	-0.00296	-0.00093	0.004467	0.000575	-0.00222	-0.00065	0.001011
0.038649	-0.00972	-0.00045	-0.00277	0.004897	0.008926	-0.00473	-0.00297	-0.00085	0.004474	0.000567	-0.00222	-0.00065	0.001011
0.012526	-0.01546	-0.00159	-0.00378	0.004791	0.008991	-0.0048	-0.00299	-0.00078	0.004482	0.00056	-0.00222	-0.00065	0.00101
0.004751	-0.01948	-0.00252	-0.00473	0.004648	0.009029	-0.00486	-0.003	-0.0007	0.004489	0.000552	-0.00222	-0.00065	0.00101
-0.01671	-0.0214	-0.00309	-0.0056	0.004468	0.009043	-0.0049	-0.00301	-0.00062	0.004495	0.000545	-0.00222	-0.00064	0.001009
-0.04465	-0.0208	-0.00322	-0.00639	0.004247	0.009031	-0.00495	-0.00302	-0.00055	0.004502	0.000537	-0.00222	-0.00064	0.001009
-0.0492	-0.0171	-0.00296	-0.00707	0.003983	0.008995	-0.00498	-0.00302	-0.00047	0.004508	0.00053	-0.00222	-0.00064	0.001008
-0.02082	-0.0101	-0.00238	-0.00763	0.003674	0.008936	-0.005	-0.00303	-0.0004	0.004514	0.000522	-0.00221	-0.00063	0.001007
-0.01311	-0.00108	-0.00157	-0.00806	0.003318	0.008854	-0.00502	-0.00303	-0.00032	0.004519	0.000515	-0.00221	-0.00063	0.001007
0.009213	0.008278	-0.0006	-0.00834	0.002911	0.008751	-0.00503	-0.00303	-0.00025	0.004524	0.000508	-0.00221	-0.00063	0.001006
0.029336	0.016312	0.00044	-0.00848	0.002452	0.008628	-0.00503	-0.00303	-0.00017	0.004529	0.0005	-0.00221	-0.00063	0.001006
0.052671	0.021347	0.001482	-0.00846	0.001939	0.008485	-0.00503	-0.00303	-0.0001	0.004534	0.000493	-0.00221	-0.00062	0.001005
0.03175	0.02218	0.002445	-0.00828	0.001374	0.008323	-0.00502	-0.00303	-2.71E-05	0.004538	0.000485	-0.00221	-0.00062	0.001005
0.01736	0.019479	0.003262	-0.00793	0.000764	0.008143	-0.005	-0.00302	4.62E-05	0.004542	0.000478	-0.00221	-0.00062	0.001004
-0.00901	0.014339	0.003904	-0.00742	0.000116	0.007947	-0.00497	-0.00301	0.000119	0.004546	0.000471	-0.00221	-0.00061	0.001003
-0.05252	0.007849	0.004351	-0.00675	-0.00056	0.007734	-0.00494	-0.003	0.000192	0.00455	0.000463	-0.00221	-0.00061	0.001003
-0.05397	0.001094	0.004583	-0.00592	-0.00127	0.007507	-0.0049	-0.00299	0.000264	0.004553	0.000456	-0.00221	-0.00061	0.001002
-0.04343	-0.00501	0.004586	-0.00493	-0.00199	0.007265	-0.00486	-0.00298	0.000337	0.004556	0.000449	-0.00221	-0.00061	0.001002
-0.03141	-0.01024	0.004358	-0.00381	-0.00272	0.00701	-0.00481	-0.00297	0.000408	0.004559	0.000442	-0.00221	-0.0006	0.001001
-0.00877	-0.01455	0.003909	-0.00259	-0.00344	0.006742	-0.00476	-0.00295	0.00048	0.004561	0.000434	-0.00221	-0.0006	0.001
0.006604	-0.01789	0.003249	-0.00128	-0.00417	0.006463	-0.00469	-0.00293	0.000551	0.004563	0.000427	-0.00221	-0.0006	0.001
0.02386	-0.0202	0.002388	6.09E-05	-0.00487	0.006173	-0.00463	-0.00292	0.000621	0.004565	0.00042	-0.0022	-0.00059	0.000999
0.037961	-0.02145	0.001334	0.00142	-0.00556	0.005874	-0.00455	-0.0029	0.000691	0.004567	0.000413	-0.0022	-0.00059	0.000999
0.051011	-0.02157	9.40E-05	0.002765	-0.00621	0.005566	-0.00448	-0.00287	0.000761	0.004568	0.000406	-0.0022	-0.00059	0.000998
0.041886	-0.02056	-0.00131	0.004067	-0.00682	0.00525	-0.0044	-0.00285	0.000831	0.00457	0.000398	-0.0022	-0.00059	0.000997
0.033395	-0.01852	-0.00282	0.0053	-0.00739	0.004927	-0.00431	-0.00283	0.0009	0.00457	0.000391	-0.0022	-0.00058	0.000997
0.019919	-0.01561	-0.00435	0.006433	-0.00791	0.004598	-0.00422	-0.0028	0.000968	0.004571	0.000384	-0.0022	-0.00058	0.000996
0.006036	-0.01196	-0.00585	0.007439	-0.00836	0.004264	-0.00412	-0.00277	0.001036	0.004571	0.000377	-0.0022	-0.00058	0.000995
-0.01061	-0.00772	-0.00722	0.008291	-0.00874	0.003925	-0.00402	-0.00274	0.001104	0.004572	0.00037	-0.0022	-0.00057	0.000995
-0.02442	-0.00304	-0.00841	0.008958	-0.00904	0.003583	-0.00391	-0.00272	0.001171	0.004572	0.000363	-0.0022	-0.00057	0.000994
-0.04255	0.001951	-0.00934	0.009414	-0.00926	0.003239	-0.00381	-0.00268	0.001238	0.004571	0.000356	-0.0022	-0.00057	0.000994
-0.03763	0.007056	-0.00993	0.009631	-0.00939	0.002893	-0.00369	-0.00265	0.001304	0.004571	0.000349	-0.0022	-0.00057	0.000993
-0.02281	0.011911	-0.01012	0.009586	-0.00942	0.002547	-0.00358	-0.00262	0.00137	0.00457	0.000342	-0.0022	-0.00056	0.000992
-0.01557	0.016101	-0.00984	0.009269	-0.00936	0.002201	-0.00346	-0.00258	0.001435	0.004569	0.000335	-0.00219	-0.00056	0.000992
-0.00158	0.019216	-0.00905	0.008695	-0.00922	0.001854	-0.00333	-0.00255	0.0015	0.004567	0.000328	-0.00219	-0.00056	0.000991
0.008192	0.020844	-0.00772	0.007895	-0.009	0.001508	-0.00321	-0.00251	0.001564	0.004566	0.000321	-0.00219	-0.00055	0.00099
0.022781	0.020591	-0.00584	0.0069	-0.0087	0.001163	-0.00308	-0.00247	0.001628	0.004564	0.000314	-0.00219	-0.00055	0.00099
0.030105	0.018149	-0.0035	0.005741	-0.00833	0.000818	-0.00295	-0.00244	0.001691	0.004562	0.000307	-0.00219	-0.00055	0.000989
0.026067	0.013434	-0.00081	0.00445	-0.00789	0.000474	-0.00281	-0.0024	0.001753	0.004559	0.0003	-0.00219	-0.00054	0.000989
0.022391	0.007064	0.002084	0.003058	-0.0074	0.000132	-0.00267	-0.00235	0.001815	0.004557	0.000294	-0.00219	-0.00054	0.000988
0.014618	-0.00017	0.005051	0.001597	-0.00685	-0.00021	-0.00254	-0.00231	0.001877	0.004554	0.000287	-0.00219	-0.00054	0.000987
0.006755	-0.00747	0.007957	9.84E-05	-0.00625	-0.00055	-0.00239	-0.00227	0.001938	0.004551	0.00028	-0.00219	-0.00054	0.000987
-0.0027	-0.01404	0.010669	-0.00141	-0.0056	-0.00088	-0.00225	-0.00223	0.001998	0.004548	0.000273	-0.00219	-0.00053	0.000986
-0.01566	-0.0191	0.013052	-0.00289	-0.00492	-0.00122	-0.0021	-0.00218	0.002058	0.004544	0.000266	-0.00218	-0.00053	0.000985
-0.01659	-0.02185	0.014973	-0.00431	-0.0042	-0.00154	-0.00196	-0.00214	0.002117	0.004541	0.00026	-0.00218	-0.00053	0.000985
-0.00515	-0.02174	0.016322	-0.00564	-0.00346	-0.00187	-0.00181	-0.00209	0.002176	0.004537	0.000253	-0.00218	-0.00052	0.000984
-0.0019	-0.01922	0.017088	-0.00686	-0.00269	-0.00219	-0.00166	-0.00204	0.002234	0.004533	0.000246	-0.00218	-0.00052	0.000983
0.004708	-0.01496	0.017302	-0.00795	-0.0019	-0.00251	-0.00151	-0.002	0.002291	0.004528	0.000239	-0.00218	-0.00052	0.000983
0.009927	-0.00966	0.017009	-0.00892	-0.00109	-0.00283	-0.00135	-0.00195	0.002348	0.004524	0.000233	-0.00218	-0.00052	0.000982
0.006577	-0.00393	0.01625	-0.00977	-0.00028	-0.00313	-0.0012	-0.0019	0.002404	0.004519	0.000226	-0.00218	-0.00051	0.000981
-0.00726	0.001873	0.015064	-0.01049	0.000534	-0.00344	-0.00105	-0.00185	0.002459	0.004514	0.000219	-0.00218	-0.00051	0.000981
-0.00466	0.007214	0.013492	-0.01109	0.001349	-0.00374	-0.00089	-0.0018	0.002514	0.004509	0.000213	-0.00218	-0.00051	0.00098
-0.00134	0.011942	0.011575	-0.01157	0.00216	-0.00403	-0.00074	-0.00175	0.002568	0.004504	0.000206	-0.00217	-0.0005	0.000979
0.004444	0.016027	0.009352	-0.01193	0.002965	-0.00432	-0.00058	-0.0017	0.002621	0.004498	0.000199	-0.00217	-0.0005	0.000979
0.002058	0.019461	0.006864	-0.01218	0.003762	-0.0046	-0.00043	-0.00164	0.002674	0.004492	0.000193	-0.00217	-0.0005	0.000978
-0.00353	0.022339	0.004151	-0.01231	0.004549	-0.00487	-0.00027	-0.00159	0.002726	0.004486	0.000186	-0.00217	-0.00049	0.000977
-0.00053	0.024761	0.001252	-0.01233	0.005323	-0.00513	-0.00012	-0.00154	0.002777	0.00448	0.00018	-0.00217	-0.00049	0.000977
0.003457	0.026749	-0.0018	-0.01223	0.006081	-0.00539	3.43E-05	-0.00148	0.002828	0.004473	0.000173	-0.00217	-0.00049	0.000976
-0.00179	0.027911	-0.00497	-0.01203	0.006821	-0.00564	0.000188	-0.00143	0.002877	0.004467	0.000167	-0.00217	-0.00049	0.000975
-0.00419	0.026338	-0.00825	-0.01172	0.00754	-0.00588	0.00034	-0.00138	0.002926	0.00446	0.00016	-0.00217	-0.00048	0.000975
-0.00374	0.020708	-0.01153	-0.01131	0.008235	-0.00612	0.000492	-0.00132	0.002975	0.004453	0.000154	-0.00216	-0.00048	0.000974
-0.00101	0.011914	-0.01474	-0.01079	0.008904	-0.00634	0.000642	-0.00127	0.003022	0.004446	0.000147	-0.00216	-0.00048	0.000973
0.003221	0.001374	-0.01777	-0.01016	0.009543	-0.00656	0.000791	-0.00121	0.003069	0.004438	0.000141	-0.00216	-0.00047	0.000972
0.006944	-0.00952	-0.02052	-0.00944	0.01015	-0.00676	0.000939	-0.00115	0.003115	0.004431	0.000134	-0.00216	-0.00047	0.000972
0.009321	-0.0195	-0.02292	-0.00862	0.010722	-0.00696	0.001085	-0.0011	0.00316	0.004423	0.000128	-0.00216	-0.00047	0.000971
0.008809	-0.02753	-0.02485	-0.0077	0.011257	-0.00715	0.001229	-0.00104	0.003205	0.004415	0.000122	-0.00216	-0.00047	0.00097
0.006032	-0.03289	-0.02624	-0.00668	0.011751	-0.00732	0.001372	-0.00099	0.003248	0.004407	0.000115	-0.00216	-0.00046	0.00097
-0.00392	-0.03494	-0.02698	-0.00557	0.012202	-0.00749	0.001513	-0.00093	0.003291	0.004398	0.000109	-0.00216	-0.00046	0.000969
-0.01647	-0.03302	-0.02702	-0.00435	0.012607	-0.00764	0.001651	-0.00087	0.003333	0.00439	0.000103	-0.00215	-0.00046	0.000968
-0.01213	-0.02669	-0.02639	-0.00304	0.012963	-0.00778	0.001787	-0.00082	0.003374	0.004381	9.64E-05	-0.00215	-0.00045	0.000968
-0.0112	-0.01689	-0.02513	-0.00165	0.013269	-0.00791	0.001921	-0.00076	0.003414	0.004372	9.01E-05	-0.00215	-0.00045	0.000967
-0.00583	-0.00488	-0.0233	-0.00021	0.01352	-0.00803	0.002052	-0.0007	0.003454	0.004363	8.38E-05	-0.00215	-0.00045	0.000966
-0.00233	0.00807	-0.02093	0.001278	0.013714	-0.00814	0.00218	-0.00065	0.003492	0.004354	7.76E-05	-0.00215	-0.00044	0.000965
0.003396	0.020695	-0.01809	0.002783	0.013848	-0.00823	0.002306	-0.00059	0.00353	0.004345	7.13E-05	-0.00215	-0.00044	0.000965
0.011762	0.031724	-0.01482	0.004292	0.01392	-0.00831	0.002428	-0.00053	0.003567	0.004335	6.51E-05	-0.00215	-0.00044	0.000964
0.020845	0.039891	-0.01117	0.005786	0.013927	-0.00838	0.002548	-0.00048	0.003603	0.004325	5.89E-05	-0.00214	-0.00044	0.000963
0.037079	0.043926	-0.00719	0.007249	0.013866	-0.00843	0.002664	-0.00042	0.003638	0.004315	5.27E-05	-0.00214	-0.00043	0.000963
0.03156	0.042943	-0.00293	0.008662	0.013735	-0.00848	0.002777	-0.00036	0.003672	0.004305	4.66E-05	-0.00214	-0.00043	0.000962
0.018174	0.037572	0.001474	0.010007	0.013531	-0.0085	0.002886	-0.00031	0.003705	0.004295	4.04E-05	-0.00214	-0.00043	0.000961
0.00606	0.028804	0.005912	0.011267	0.013251	-0.00852	0.002992	-0.00025	0.003737	0.004285	3.43E-05	-0.00214	-0.00042	0.00096
-0.01624	0.017608	0.010291	0.012424	0.012894	-0.00852	0.003094	-0.00019	0.003769	0.004274	2.82E-05	-0.00214	-0.00042	0.00096
-0.03083	0.004943	0.014527	0.013459	0.012456	-0.0085	0.003193	-0.00014	0.003799	0.004263	2.21E-05	-0.00214	-0.00042	0.000959
-0.05241	-0.00823	0.018535	0.014355	0.011936	-0.00848	0.003288	-8.35E-05	0.003828	0.004252	1.60E-05	-0.00213	-0.00041	0.000958
-0.05871	-0.02095	0.022229	0.015095	0.01133	-0.00844	0.00338	-2.85E-05	0.003857	0.004241	9.97E-06	-0.00213	-0.00041	0.000957
-0.02274	-0.03236	0.025526	0.015659	0.010637	-0.00839	0.003469	2.62E-05	0.003884	0.00423	3.94E-06	-0.00213	-0.00041	0.000957
0.010752	-0.04206	0.028339	0.01603	0.009855	-0.00832	0.003555	8.06E-05	0.003911	0.004219	-2.08E-06	-0.00213	-0.00041	0.000956

0.041248	-0.04974	0.030585	0.016185	0.008986	-0.00824	0.003637	0.000135	0.003936	0.004207	-8.08E-06	-0.00213	-0.0004	0.000955
0.070693	-0.05509	0.032177	0.0161	0.008034	-0.00816	0.003716	0.000188	0.003961	0.004196	-1.41E-05	-0.00213	-0.0004	0.000954
0.044107	-0.05789	0.033032	0.015745	0.007009	-0.00805	0.003792	0.000241	0.003984	0.004184	-2.00E-05	-0.00212	-0.0004	0.000954
0.016838	-0.05824	0.033081	0.015098	0.005919	-0.00794	0.003864	0.000294	0.004007	0.004172	-2.60E-05	-0.00212	-0.00039	0.000953
-0.01707	-0.05643	0.03234	0.014165	0.004773	-0.00782	0.003934	0.000346	0.004028	0.00416	-3.19E-05	-0.00212	-0.00039	0.000952
-0.04972	-0.05281	0.03086	0.012972	0.003581	-0.00768	0.004001	0.000397	0.004049	0.004147	-3.78E-05	-0.00212	-0.00039	0.000951
-0.08309	-0.04774	0.028716	0.011548	0.002353	-0.00754	0.004064	0.000448	0.004068	0.004135	-4.37E-05	-0.00212	-0.00038	0.000951
-0.0775	-0.04158	0.025988	0.009926	0.001096	-0.00738	0.004125	0.000499	0.004086	0.004123	-4.96E-05	-0.00212	-0.00038	0.00095
-0.06335	-0.03451	0.022753	0.008135	-0.00018	-0.00721	0.004183	0.000548	0.004103	0.00411	-5.54E-05	-0.00212	-0.00038	0.000949
-0.04928	-0.02669	0.019093	0.006205	-0.00146	-0.00703	0.004238	0.000597	0.00412	0.004097	-6.13E-05	-0.00211	-0.00038	0.000948
-0.02975	-0.01828	0.015085	0.004168	-0.00275	-0.00684	0.004291	0.000646	0.004135	0.004084	-6.71E-05	-0.00211	-0.00037	0.000948
-0.00206	-0.00944	0.010808	0.002053	-0.00402	-0.00664	0.00434	0.000693	0.004149	0.004071	-7.29E-05	-0.00211	-0.00037	0.000947
0.033218	-0.00033	0.006344	-0.00011	-0.00528	-0.00643	0.004387	0.00074	0.004161	0.004058	-7.87E-05	-0.00211	-0.00037	0.000946
0.065308	0.008909	0.001769	-0.00229	-0.0065	-0.00621	0.004432	0.000786	0.004173	0.004045	-8.45E-05	-0.00211	-0.00036	0.000945
0.092008	0.018104	-0.00284	-0.00445	-0.0077	-0.00599	0.004474	0.000831	0.004184	0.004031	-9.02E-05	-0.00211	-0.00036	0.000944
0.059191	0.027122	-0.00739	-0.00657	-0.00884	-0.00575	0.004513	0.000876	0.004193	0.004018	-9.59E-05	-0.0021	-0.00036	0.000944
-0.03034	0.035896	-0.01182	-0.00862	-0.00993	-0.0055	0.00455	0.00092	0.004202	0.004004	-0.0001	-0.0021	-0.00035	0.000943
-0.0909	0.044381	-0.01604	-0.01056	-0.01095	-0.00524	0.004584	0.000962	0.004209	0.00399	-0.00011	-0.0021	-0.00035	0.000942
-0.07501	0.052482	-0.01998	-0.01236	-0.0119	-0.00498	0.004616	0.001004	0.004215	0.003976	-0.00011	-0.0021	-0.00035	0.000941
-0.06987	0.059915	-0.02354	-0.014	-0.01277	-0.0047	0.004646	0.001045	0.00422	0.003962	-0.00012	-0.0021	-0.00035	0.000941
-0.04845	0.066345	-0.02667	-0.01544	-0.01355	-0.00442	0.004674	0.001085	0.004223	0.003948	-0.00012	-0.00209	-0.00034	0.00094
-0.02646	0.071439	-0.02927	-0.01666	-0.01422	-0.00413	0.004699	0.001123	0.004226	0.003934	-0.00013	-0.00209	-0.00034	0.000939
-0.00448	0.074863	-0.03127	-0.01761	-0.01478	-0.00383	0.004722	0.001161	0.004227	0.003919	-0.00014	-0.00209	-0.00034	0.000938
0.020955	0.076318	-0.03262	-0.01828	-0.01522	-0.00353	0.004743	0.001198	0.004227	0.003905	-0.00014	-0.00209	-0.00033	0.000937
0.045374	0.075638	-0.03341	-0.01863	-0.01553	-0.00321	0.004762	0.001233	0.004226	0.00389	-0.00015	-0.00209	-0.00033	0.000937
0.074395	0.072658	-0.03373	-0.01863	-0.01571	-0.00289	0.004778	0.001268	0.004224	0.003875	-0.00015	-0.00209	-0.00033	0.000936
0.074477	0.067107	-0.03365	-0.01825	-0.01574	-0.00256	0.004793	0.001301	0.00422	0.003861	-0.00016	-0.00208	-0.00032	0.000935
0.060381	0.058545	-0.03324	-0.01748	-0.01563	-0.00223	0.004806	0.001333	0.004215	0.003846	-0.00016	-0.00208	-0.00032	0.000934
0.053308	0.047325	-0.03249	-0.01634	-0.01539	-0.00189	0.004817	0.001364	0.004209	0.00383	-0.00017	-0.00208	-0.00032	0.000933
0.037328	0.034025	-0.03139	-0.01488	-0.01503	-0.00154	0.004826	0.001394	0.004202	0.003815	-0.00017	-0.00208	-0.00031	0.000933
0.019245	0.019222	-0.02994	-0.01314	-0.01456	-0.00119	0.004833	0.001422	0.004193	0.0038	-0.00018	-0.00208	-0.00031	0.000932
0.002911	0.003494	-0.02813	-0.01116	-0.01398	-0.00084	0.004839	0.001449	0.004184	0.003785	-0.00019	-0.00208	-0.00031	0.000931
-0.01109	-0.01258	-0.02595	-0.00898	-0.0133	-0.00048	0.004843	0.001475	0.004172	0.003769	-0.00019	-0.00207	-0.00031	0.00093
-0.02777	-0.02843	-0.02339	-0.00664	-0.01253	-0.00012	0.004845	0.001499	0.00416	0.003753	-0.0002	-0.00207	-0.0003	0.000929
-0.0432	-0.04347	-0.02044	-0.00419	-0.01168	0.000243	0.004845	0.001522	0.004147	0.003738	-0.0002	-0.00207	-0.0003	0.000929
-0.04688	-0.05713	-0.01711	-0.00166	-0.01075	0.000605	0.004844	0.001543	0.004132	0.003722	-0.00021	-0.00207	-0.0003	0.000928
-0.02347	-0.06869	-0.01337	0.000897	-0.00976	0.000968	0.004841	0.001563	0.004116	0.003706	-0.00021	-0.00207	-0.00029	0.000927
-0.00952	-0.07707	-0.00923	0.003451	-0.0087	0.00133	0.004837	0.001582	0.004099	0.00369	-0.00022	-0.00206	-0.00029	0.000926
0.006776	-0.08157	-0.00468	0.005955	-0.0076	0.00169	0.00483	0.001599	0.004081	0.003674	-0.00022	-0.00206	-0.00029	0.000925
0.017529	-0.08168	0.000261	0.00837	-0.00645	0.002049	0.004822	0.001615	0.004062	0.003658	-0.00023	-0.00206	-0.00028	0.000924
0.024947	-0.07683	0.005418	0.010653	-0.00527	0.002405	0.004812	0.00163	0.004041	0.003641	-0.00023	-0.00206	-0.00028	0.000924
0.027252	-0.06652	0.01058	0.012763	-0.00406	0.002758	0.0048	0.001643	0.00402	0.003625	-0.00024	-0.00206	-0.00028	0.000923
0.024813	-0.05074	0.015525	0.014659	-0.00284	0.003107	0.004786	0.001655	0.003997	0.003608	-0.00024	-0.00205	-0.00028	0.000922
0.018896	-0.03078	0.02003	0.0163	-0.0016	0.00345	0.004771	0.001666	0.003973	0.003592	-0.00025	-0.00205	-0.00027	0.000921
0.011489	-0.00828	0.023875	0.017645	-0.00035	0.003789	0.004753	0.001676	0.003949	0.003575	-0.00025	-0.00205	-0.00027	0.00092
0.002847	0.015172	0.026837	0.018651	0.000888	0.004121	0.004734	0.001685	0.003923	0.003558	-0.00026	-0.00205	-0.00027	0.000919
-0.00657	0.037949	0.028694	0.019279	0.002115	0.004446	0.004713	0.001692	0.003896	0.003541	-0.00027	-0.00205	-0.00026	0.000919
-0.00988	0.058225	0.029225	0.019486	0.003322	0.004763	0.004689	0.001698	0.003868	0.003524	-0.00027	-0.00204	-0.00026	0.000918
-0.00872	0.073234	0.028194	0.019244	0.004502	0.005072	0.004664	0.001703	0.003839	0.003507	-0.00028	-0.00204	-0.00026	0.000917
0.005338	0.079703	0.025316	0.018574	0.005648	0.005372	0.004637	0.001707	0.003809	0.00349	-0.00028	-0.00204	-0.00025	0.000916
0.000969	0.075437	0.020435	0.017514	0.006754	0.005662	0.004607	0.00171	0.003778	0.003473	-0.00029	-0.00204	-0.00025	0.000915
-0.00238	0.061931	0.01399	0.016103	0.007814	0.005942	0.004576	0.001711	0.003746	0.003456	-0.00029	-0.00204	-0.00025	0.000914
0.001951	0.042609	0.006566	0.014378	0.008824	0.00621	0.004543	0.001712	0.003713	0.003438	-0.0003	-0.00203	-0.00024	0.000913
-0.00239	0.021073	-0.00125	0.012378	0.00978	0.006467	0.004507	0.001711	0.003679	0.003421	-0.0003	-0.00203	-0.00024	0.000913
0.001904	-0.00499	-0.00888	0.010141	0.010675	0.006711	0.004469	0.001709	0.003645	0.003403	-0.00031	-0.00203	-0.00024	0.000912
0.005071	-0.0341	-0.01573	0.007704	0.011506	0.006941	0.00443	0.001707	0.003609	0.003385	-0.00031	-0.00203	-0.00024	0.000911
0.002962	-0.06241	-0.02121	0.005107	0.012267	0.007157	0.004388	0.001703	0.003573	0.003368	-0.00032	-0.00203	-0.00023	0.00091
-0.00784	-0.07571	-0.02475	0.002385	0.012954	0.007359	0.004343	0.001698	0.003535	0.00335	-0.00032	-0.00202	-0.00023	0.000909
0.008464	-0.06132	-0.02589	-0.00042	0.013562	0.007545	0.004297	0.001692	0.003497	0.003332	-0.00033	-0.00202	-0.00023	0.000908
0.003926	-0.02479	-0.02471	-0.00327	0.014086	0.007715	0.004248	0.001686	0.003458	0.003314	-0.00033	-0.00202	-0.00022	0.000907
-0.00455	0.019501	-0.02146	-0.00611	0.014521	0.007867	0.004197	0.001678	0.003418	0.003296	-0.00034	-0.00202	-0.00022	0.000906
-0.00742	0.057203	-0.01638	-0.00885	0.014863	0.008003	0.004144	0.001669	0.003378	0.003278	-0.00034	-0.00202	-0.00022	0.000906
0.006825	0.072715	-0.00974	-0.01142	0.015107	0.008119	0.004089	0.00166	0.003336	0.00326	-0.00035	-0.00201	-0.00021	0.000905
-0.00645	0.052136	-0.00191	-0.01375	0.015248	0.008217	0.004031	0.001649	0.003294	0.003241	-0.00035	-0.00201	-0.00021	0.000904
0.002208	0.004761	0.006201	-0.01575	0.01528	0.008295	0.003971	0.001638	0.003251	0.003223	-0.00036	-0.00201	-0.00021	0.000903
0.006237	-0.04343	0.013575	-0.01735	0.0152	0.008352	0.003908	0.001626	0.003208	0.003205	-0.00036	-0.00201	-0.00021	0.000902
-0.0061	-0.07037	0.019188	-0.01846	0.015	0.00839	0.003844	0.001613	0.003163	0.003186	-0.00037	-0.002	-0.0002	0.000901
0.005747	-0.06846	0.022241	-0.01901	0.014674	0.008409	0.003778	0.001599	0.003118	0.003168	-0.00037	-0.002	-0.0002	0.0009
-0.00512	-0.04869	0.022831	-0.01892	0.014218	0.008409	0.003709	0.001585	0.003072	0.003149	-0.00038	-0.002	-0.0002	0.000899
-0.00025	-0.02902	0.021307	-0.01815	0.013628	0.008391	0.003639	0.001569	0.003026	0.00313	-0.00038	-0.002	-0.00019	0.000899
0.003392	-0.00559	0.018119	-0.01675	0.012913	0.008356	0.003567	0.001553	0.002979	0.003112	-0.00038	-0.002	-0.00019	0.000898
-0.00254	0.026359	0.013744	-0.01482	0.012087	0.008304	0.003493	0.001536	0.002931	0.003093	-0.00039	-0.00199	-0.00019	0.000897
-0.00161	0.054796	0.00866	-0.01246	0.01116	0.008236	0.003417	0.001518	0.002883	0.003074	-0.00039	-0.00199	-0.00018	0.000896
0.00134	0.066638	0.003343	-0.00976	0.010146	0.008153	0.003339	0.0015	0.002833	0.003055	-0.0004	-0.00199	-0.00018	0.000895
-0.00109	0.057928	-0.00179	-0.00681	0.009056	0.008054	0.00326	0.001481	0.002784	0.003036	-0.0004	-0.00199	-0.00018	0.000894
0.001129	0.0488	-0.00654	-0.00371	0.007902	0.007942	0.00318	0.001461	0.002734	0.003017	-0.00041	-0.00198	-0.00017	0.000893
-0.002	0.034316	-0.01077	-0.00056	0.006696	0.007816	0.003097	0.001441	0.002683	0.002998	-0.00041	-0.00198	-0.00017	0.000892
-0.00215	0.011903	-0.01434	0.002561	0.00545	0.007677	0.003014	0.00142	0.002631	0.002979	-0.00042	-0.00198	-0.00017	0.000891
0.00318	-0.01518	-0.01711	0.005546	0.004176	0.007525	0.002929	0.001398	0.00258	0.00296	-0.00042	-0.00198	-0.00017	0.00089
-0.00458	-0.03128	-0.01895	0.008306	0.002887	0.007362	0.002842	0.001376	0.002527	0.00294	-0.00043	-0.00197	-0.00016	0.000889
0.002016	-0.04197	-0.01973	0.010751	0.001594	0.007188	0.002754	0.001353	0.002474	0.002921	-0.00043	-0.00197	-0.00016	0.000889
0.007752	-0.05076	-0.01933	0.012821	0.00031	0.007004	0.002665	0.001329	0.002421	0.002902	-0.00044	-0.00197	-0.00016	0.000888
0.010697	-0.05812	-0.01772	0.014511	-0.00095	0.006809	0.002575	0.001305	0.002367	0.002882	-0.00044	-0.00197	-0.00015	0.000887
0.007138	-0.0616	-0.01485	0.015823	-0.00219	0.006606	0.002483	0.001281	0.002312	0.002863	-0.00045	-0.00197	-0.00015	0.000886
0.001534	-0.05785	-0.01081	0.016763	-0.00337	0.006393	0.002391	0.001256	0.002257	0.002843	-0.00045	-0.00196	-0.00015	0.000885
-0.01876	-0.04379	-0.00596	0.017335	-0.00451	0.006173	0.002297	0.00123	0.002202	0.002824	-0.00045	-0.00196	-0.00014	0.000884
0.004606	-0.01945	-0.00068	0.017546	-0.00557	0.005946	0.002202	0.001204	0.002146	0.002804	-0.00046	-0.00196	-0.00014	0.000883
0.012686	0.009552	0.004597	0.017409	-0.00658	0.005711	0.002107	0.001178	0.00209	0.002784	-0.00046	-0.00196	-0.00014	0.000882
0.030396	0.036329	0.009471	0.016937	-0.00751	0.005471	0.00201	0.001151	0.002034	0.002765	-0.00047	-0.00195	-0.00013	0.000881
0.030647	0.054001	0.013532	0.016146	-0.00837	0.005225	0.001913	0.001123	0.001977	0.002745	-0.00047	-0.00195	-0.00013	0.00088
0.000295	0.057547	0.016371	0.015051	-0.00916	0.004974	0.001815	0.001095	0.00192	0.002725	-0.00048	-0.00195	-0.00013	0.000879
-0.00978	0.049287	0.017686	0.01367	-0.00988	0.004719	0.001716	0.001067	0.001862	0.002705	-0.00048	-0.00195	-0.00013	0.000878
-0.02204	0.032961	0.017615	0.012029	-0.01053	0.004461	0.001617	0.001039	0.001804	0.002685	-0.00049	-0.00194	-0.00012	0.000877

-0.02896	0.012195	0.016393	0.01017	-0.0111	0.004199	0.001517	0.00101	0.001746	0.002665	-0.00049	-0.00194	-0.00012	0.000876
-0.03986	-0.00938	0.014252	0.008135	-0.01161	0.003935	0.001416	0.000981	0.001687	0.002645	-0.00049	-0.00194	-0.00012	0.000875
-0.04691	-0.02815	0.011425	0.005966	-0.01204	0.003669	0.001315	0.000951	0.001628	0.002625	-0.0005	-0.00194	-0.00011	0.000875
-0.01878	-0.04123	0.008144	0.003707	-0.01239	0.003402	0.001213	0.000921	0.001569	0.002605	-0.0005	-0.00193	-0.00011	0.000874
-0.00228	-0.04882	0.004642	0.0014	-0.01267	0.003135	0.001111	0.000891	0.00151	0.002585	-0.00051	-0.00193	-0.00011	0.000873
0.016634	-0.05186	0.001151	-0.00091	-0.01288	0.002868	0.001009	0.000861	0.00145	0.002565	-0.00051	-0.00193	-0.0001	0.000872
0.031584	-0.05129	-0.00211	-0.00319	-0.01301	0.002602	0.000906	0.00083	0.00139	0.002545	-0.00052	-0.00193	-0.0001	0.000871
0.044875	-0.04794	-0.00501	-0.00538	-0.01306	0.002337	0.000803	0.0008	0.00133	0.002525	-0.00052	-0.00192	-9.73E-05	0.00087
0.052384	-0.04258	-0.0075	-0.00745	-0.01304	0.002073	0.0007	0.000769	0.00127	0.002505	-0.00053	-0.00192	-9.42E-05	0.000869
0.05835	-0.0359	-0.00961	-0.00936	-0.01293	0.001812	0.000596	0.000737	0.00121	0.002484	-0.00053	-0.00192	-9.12E-05	0.000868
0.042342	-0.02849	-0.01136	-0.01105	-0.01275	0.001553	0.000493	0.000706	0.001149	0.002464	-0.00053	-0.00192	-8.81E-05	0.000867
0.00793	-0.02058	-0.01278	-0.0125	-0.01249	0.001296	0.00039	0.000675	0.001088	0.002444	-0.00054	-0.00191	-8.50E-05	0.000866
-0.02295	-0.01229	-0.01389	-0.01365	-0.01215	0.001041	0.000286	0.000643	0.001027	0.002424	-0.00054	-0.00191	-8.19E-05	0.000865
-0.04551	-0.00376	-0.01471	-0.01446	-0.01172	0.000788	0.000183	0.000611	0.000966	0.002403	-0.00055	-0.00191	-7.88E-05	0.000864
-0.05698	0.004882	-0.01526	-0.01489	-0.01121	0.000537	7.99E-05	0.000579	0.000905	0.002383	-0.00055	-0.00191	-7.57E-05	0.000863
-0.05924	0.013457	-0.01557	-0.01491	-0.01062	0.000288	-2.31E-05	0.000547	0.000844	0.002363	-0.00055	-0.0019	-7.26E-05	0.000862
-0.05647	0.021546	-0.0156	-0.01453	-0.00995	4.16E-05	-0.00013	0.000515	0.000783	0.002342	-0.00056	-0.0019	-6.95E-05	0.000861
-0.04571	0.028602	-0.01527	-0.01378	-0.00922	-0.0002	-0.00023	0.000483	0.000721	0.002322	-0.00056	-0.0019	-6.65E-05	0.00086
-0.02374	0.03415	-0.01451	-0.01271	-0.00843	-0.00044	-0.00033	0.000451	0.00066	0.002301	-0.00057	-0.0019	-6.34E-05	0.000859
-0.00737	0.037738	-0.01325	-0.01138	-0.00758	-0.00068	-0.00043	0.000419	0.000598	0.002281	-0.00057	-0.00189	-6.03E-05	0.000858
0.00108	0.038914	-0.01142	-0.00981	-0.00669	-0.00092	-0.00053	0.000387	0.000537	0.00226	-0.00058	-0.00189	-5.72E-05	0.000857
0.011836	0.037237	-0.00896	-0.00807	-0.00576	-0.00115	-0.00063	0.000355	0.000475	0.00224	-0.00058	-0.00189	-5.41E-05	0.000856
0.021147	0.03234	-0.00587	-0.0062	-0.0048	-0.00138	-0.00073	0.000323	0.000414	0.002219	-0.00058	-0.00189	-5.10E-05	0.000855
0.029104	0.024049	-0.00233	-0.00424	-0.00381	-0.00161	-0.00083	0.000292	0.000353	0.002199	-0.00059	-0.00188	-4.79E-05	0.000854
0.040283	0.01268	0.001417	-0.00225	-0.00281	-0.00183	-0.00093	0.00026	0.000291	0.002178	-0.00059	-0.00188	-4.48E-05	0.000853
0.043932	-0.0003	0.005113	-0.00025	-0.0018	-0.00205	-0.00103	0.000228	0.00023	0.002158	-0.0006	-0.00188	-4.17E-05	0.000852
0.028836	-0.01314	0.008504	0.001688	-0.00079	-0.00227	-0.00113	0.000197	0.000169	0.002137	-0.0006	-0.00188	-3.86E-05	0.000851
0.014039	-0.02389	0.011334	0.003532	0.000213	-0.00248	-0.00122	0.000165	0.000107	0.002116	-0.0006	-0.00187	-3.56E-05	0.00085
-0.00605	-0.03053	0.013348	0.005231	0.001206	-0.00269	-0.00132	0.000134	4.64E-05	0.002096	-0.00061	-0.00187	-3.25E-05	0.000849
-0.03396	-0.03105	0.014323	0.00674	0.002178	-0.0029	-0.00142	0.000103	-1.46E-05	0.002075	-0.00061	-0.00187	-2.94E-05	0.000848
-0.03304	-0.0244	0.014207	0.008023	0.003123	-0.0031	-0.00151	7.20E-05	-7.54E-05	0.002055	-0.00062	-0.00187	-2.63E-05	0.000847
-0.02362	-0.01271	0.013144	0.009081	0.004034	-0.0033	-0.0016	4.13E-05	-0.00014	0.002034	-0.00062	-0.00186	-2.32E-05	0.000846
-0.01549	0.001086	0.011309	0.009932	0.004903	-0.00349	-0.00169	1.09E-05	-0.0002	0.002013	-0.00062	-0.00186	-2.01E-05	0.000845
0.001949	0.014048	0.008883	0.010594	0.005722	-0.00368	-0.00178	-1.92E-05	-0.00026	0.001993	-0.00063	-0.00186	-1.70E-05	0.000844
0.021034	0.023243	0.006042	0.011084	0.006485	-0.00386	-0.00187	-4.91E-05	-0.00032	0.001972	-0.00063	-0.00185	-1.39E-05	0.000843
0.018169	0.026389	0.002967	0.011417	0.007184	-0.00405	-0.00196	-7.87E-05	-0.00038	0.001952	-0.00064	-0.00185	-1.08E-05	0.000842
0.008357	0.0239	-0.00017	0.011611	0.007811	-0.00422	-0.00205	-0.00011	-0.00044	0.001931	-0.00064	-0.00185	-7.73E-06	0.000841
0.006304	0.017237	-0.00324	0.011682	0.008361	-0.00439	-0.00213	-0.00014	-0.0005	0.00191	-0.00064	-0.00185	-4.64E-06	0.00084
-0.00121	0.007956	-0.00609	0.011647	0.008825	-0.00456	-0.00222	-0.00017	-0.00056	0.00189	-0.00065	-0.00184	-1.55E-06	0.000839
-0.00355	-0.00239	-0.0086	0.011517	0.009203	-0.00472	-0.0023	-0.00019	-0.00061	0.001869	-0.00065	-0.00184	1.55E-06	0.000838
-0.00956	-0.01223	-0.01063	0.011301	0.009494	-0.00488	-0.00238	-0.00022	-0.00067	0.001848	-0.00065	-0.00184	4.64E-06	0.000837
-0.00195	-0.01974	-0.01205	0.011005	0.009701	-0.00503	-0.00246	-0.00025	-0.00073	0.001828	-0.00066	-0.00184	7.73E-06	0.000836
0.007748	-0.02187	-0.01272	0.010635	0.00983	-0.00517	-0.00254	-0.00028	-0.00079	0.001807	-0.00066	-0.00183	1.08E-05	0.000835
-0.00149	-0.01668	-0.01255	0.010194	0.009883	-0.00531	-0.00261	-0.0003	-0.00085	0.001787	-0.00067	-0.00183	1.39E-05	0.000834
-0.00719	-0.0086	-0.01162	0.009673	0.009865	-0.00545	-0.00269	-0.00033	-0.0009	0.001766	-0.00067	-0.00183	1.70E-05	0.000833
-0.00698	-0.00257	-0.01005	0.009077	0.00978	-0.00559	-0.00276	-0.00035	-0.00096	0.001745	-0.00067	-0.00182	2.01E-05	0.000832
-0.00368	0.001029	-0.00798	0.00842	0.009632	-0.00572	-0.00283	-0.00038	-0.00102	0.001725	-0.00068	-0.00182	2.32E-05	0.000831
0.001971	0.002921	-0.00555	0.007712	0.009424	-0.00584	-0.0029	-0.0004	-0.00107	0.001704	-0.00068	-0.00182	2.63E-05	0.00083
0.009277	0.003837	-0.00288	0.006966	0.009161	-0.00597	-0.00297	-0.00043	-0.00113	0.001684	-0.00068	-0.00182	2.94E-05	0.000829
0.005979	0.004428	-0.00013	0.006192	0.008845	-0.00609	-0.00303	-0.00045	-0.00119	0.001663	-0.00069	-0.00181	3.25E-05	0.000828
0.002883	0.00502	0.002581	0.005403	0.008481	-0.0062	-0.00309	-0.00048	-0.00124	0.001643	-0.00069	-0.00181	3.56E-05	0.000826
-0.00258	0.005855	0.005112	0.00461	0.008073	-0.00632	-0.00315	-0.0005	-0.00129	0.001622	-0.0007	-0.00181	3.86E-05	0.000825
-0.00778	0.007179	0.007326	0.003824	0.007624	-0.00643	-0.00321	-0.00052	-0.00135	0.001602	-0.0007	-0.0018	4.17E-05	0.000824
-0.01519	0.009236	0.009088	0.003057	0.007138	-0.00654	-0.00327	-0.00054	-0.0014	0.001581	-0.0007	-0.0018	4.48E-05	0.000823
-0.01316	0.012025	0.010262	0.002322	0.006619	-0.00664	-0.00332	-0.00056	-0.00146	0.001561	-0.00071	-0.0018	4.79E-05	0.000822
-0.00243	0.014568	0.010705	0.001636	0.006071	-0.00674	-0.00337	-0.00058	-0.00151	0.00154	-0.00071	-0.0018	5.10E-05	0.000821
0.008956	0.015642	0.010279	0.001015	0.005496	-0.00684	-0.00342	-0.0006	-0.00156	0.00152	-0.00071	-0.00179	5.41E-05	0.00082
0.020003	0.013956	0.008924	0.000463	0.0049	-0.00693	-0.00347	-0.00062	-0.00161	0.0015	-0.00072	-0.00179	5.72E-05	0.000819
0.012064	0.008599	0.006826	-2.82E-05	0.004286	-0.00702	-0.00351	-0.00064	-0.00166	0.001479	-0.00072	-0.00179	6.03E-05	0.000818
0.011767	0.001051	0.004231	-0.00047	0.003657	-0.00711	-0.00355	-0.00065	-0.00171	0.001459	-0.00072	-0.00178	6.34E-05	0.000817
0.003115	-0.00659	0.001383	-0.00087	0.003017	-0.0072	-0.00359	-0.00067	-0.00176	0.001439	-0.00073	-0.00178	6.65E-05	0.000816
-0.00603	-0.01224	-0.00147	-0.00125	0.002371	-0.00728	-0.00363	-0.00069	-0.00181	0.001418	-0.00073	-0.00178	6.95E-05	0.000815
-0.02349	-0.01379	-0.00408	-0.0016	0.001721	-0.00736	-0.00366	-0.0007	-0.00186	0.001398	-0.00073	-0.00178	7.26E-05	0.000814
-0.01816	-0.00998	-0.00624	-0.00196	0.001072	-0.00743	-0.00369	-0.00072	-0.00191	0.001378	-0.00074	-0.00177	7.57E-05	0.000813
-0.00366	-0.00274	-0.00782	-0.00232	0.000427	-0.00751	-0.00372	-0.00073	-0.00196	0.001358	-0.00074	-0.00177	7.88E-05	0.000812
0.007782	0.005153	-0.00873	-0.00269	-0.00021	-0.00758	-0.00375	-0.00074	-0.002	0.001337	-0.00074	-0.00177	8.19E-05	0.00081
0.023247	0.01093	-0.0089	-0.0031	-0.00083	-0.00765	-0.00377	-0.00075	-0.00205	0.001317	-0.00075	-0.00176	8.50E-05	0.000809
0.014598	0.012462	-0.00822	-0.00353	-0.00144	-0.00771	-0.00379	-0.00076	-0.00209	0.001297	-0.00075	-0.00176	8.81E-05	0.000808
0.008065	0.01021	-0.00671	-0.00398	-0.00203	-0.00778	-0.00381	-0.00077	-0.00214	0.001277	-0.00075	-0.00176	9.12E-05	0.000807
0.003135	0.005489	-0.00456	-0.00443	-0.0026	-0.00784	-0.00382	-0.00078	-0.00218	0.001257	-0.00076	-0.00175	9.43E-05	0.000806
-0.00407	-0.00033	-0.00206	-0.00486	-0.00314	-0.0079	-0.00383	-0.00079	-0.00222	0.001237	-0.00076	-0.00175	9.73E-05	0.000805
-0.0114	-0.00588	0.000534	-0.00525	-0.00365	-0.00795	-0.00384	-0.0008	-0.00227	0.001217	-0.00076	-0.00175	0.0001	0.000804
-0.01804	-0.0098	0.002957	-0.00559	-0.00413	-0.00801	-0.00384	-0.0008	-0.00231	0.001197	-0.00077	-0.00175	0.000104	0.000803
-0.01278	-0.01103	0.004953	-0.00587	-0.00456	-0.00806	-0.00384	-0.00081	-0.00235	0.001177	-0.00077	-0.00174	0.000107	0.000802
-0.00552	-0.00992	0.006353	-0.00606	-0.00496	-0.00811	-0.00384	-0.00081	-0.00239	0.001158	-0.00077	-0.00174	0.00011	0.000801
0.002084	-0.00728	0.007159	-0.00616	-0.00531	-0.00815	-0.00383	-0.00081	-0.00243	0.001138	-0.00078	-0.00174	0.000113	0.0008
0.007764	-0.00396	0.007414	-0.00614	-0.00561	-0.0082	-0.00382	-0.00082	-0.00247	0.001118	-0.00078	-0.00173	0.000116	0.000798
0.011096	-0.00084	0.007169	-0.006	-0.00586	-0.00824	-0.0038	-0.00082	-0.0025	0.001098	-0.00078	-0.00173	0.000119	0.000797
0.000641	0.001447	0.006494	-0.00575	-0.00606	-0.00828	-0.00379	-0.00082	-0.00254	0.001079	-0.00079	-0.00173	0.000122	0.000796
-0.00293	0.003058	0.005467	-0.00539	-0.00622	-0.00831	-0.00377	-0.00082	-0.00258	0.001059	-0.00079	-0.00172	0.000125	0.000795
-0.00688	0.00437	0.004165	-0.00495	-0.00633	-0.00835	-0.00374	-0.00082	-0.00261	0.001039	-0.00079	-0.00172	0.000128	0.000794
-0.00378	0.005745	0.002665	-0.00444	-0.0064	-0.00838	-0.00371	-0.00082	-0.00265	0.00102	-0.0008	-0.00172	0.000131	0.000793
0.004459	0.007498	0.001045	-0.00387	-0.00643	-0.00841	-0.00368	-0.00081	-0.00268	0.001	-0.0008	-0.00172	0.000134	0.000792
0.00284	0.009171	-0.00062	-0.00325	-0.00641	-0.00844	-0.00364	-0.00081	-0.00271	0.000981	-0.0008	-0.00171	0.000137	0.000791
-0.00262	0.007425	-0.00224	-0.00261	-0.00636	-0.00846	-0.00361	-0.00081	-0.00274	0.000962	-0.00081	-0.00171	0.000141	0.000789
0.001969	0.000724	-0.00371	-0.00195	-0.00627	-0.00848	-0.00356	-0.0008	-0.00277	0.000942	-0.00081	-0.00171	0.000144	0.000788
0.001138	-0.00578	-0.0049	-0.00129	-0.00615	-0.0085	-0.00352	-0.0008	-0.0028	0.000923	-0.00081	-0.0017	0.000147	0.000787
-0.00125	-0.0087	-0.0057	-0.00064	-0.00599	-0.00851	-0.00347	-0.00079	-0.00283	0.000904	-0.00082	-0.0017	0.00015	0.000786
0.00115	-0.00671	-0.00601	-1.25E-05	-0.0058	-0.00851	-0.00341	-0.00078	-0.00286	0.000885	-0.00082	-0.0017	0.000153	0.000785
0.000308	-0.00265	-0.00588	0.000582	-0.00558	-0.00851	-0.00336	-0.00078	-0.00288	0.000866	-0.00082	-0.00169	0.000156	0.000784
-0.00126	0.001163	-0.00539	0.001141	-0.00534	-0.0085	-0.0033	-0.00077	-0.00291	0.000847	-0.00083	-0.00169	0.000159	0.000783
-0.00233	0.00409	-0.00461	0.00166	-0.00507	-0.00849	-0.00324	-0.00076	-0.00293	0.000828	-0.00083	-0.00169	0.000162	0.000782
-0.00293	0.006142	-0.00363	0.002134	-0.00477	-0.00847	-0.00317	-0.00075	-0.00296	0.000809	-0.00083	-0.00168	0.000165	0.00078

-0.00311	0.007455	-0.0025	0.002558	-0.00446	-0.00844	-0.00311	-0.00074	-0.00298	0.00079	-0.00083	-0.00168	0.000168	0.000779
-0.00313	0.008168	-0.00133	0.002927	-0.00412	-0.00841	-0.00304	-0.00074	-0.003	0.000771	-0.00084	-0.00168	0.000171	0.000778
-0.0041	0.008353	-0.00017	0.003237	-0.00376	-0.00837	-0.00297	-0.00073	-0.00302	0.000752	-0.00084	-0.00168	0.000174	0.000777
-0.00381	0.008011	0.000898	0.003482	-0.00339	-0.00832	-0.00289	-0.00072	-0.00304	0.000734	-0.00084	-0.00167	0.000177	0.000776
-0.00109	0.007137	0.001835	0.003658	-0.00299	-0.00826	-0.00281	-0.0007	-0.00306	0.000715	-0.00085	-0.00167	0.000181	0.000775
0.002563	0.005834	0.002631	0.00376	-0.00259	-0.00819	-0.00273	-0.00069	-0.00308	0.000697	-0.00085	-0.00167	0.000184	0.000774
0.004671	0.004229	0.003284	0.003784	-0.00217	-0.00812	-0.00265	-0.00068	-0.0031	0.000678	-0.00085	-0.00166	0.000187	0.000772
0.00838	0.002443	0.003802	0.003724	-0.00174	-0.00803	-0.00257	-0.00067	-0.00312	0.00066	-0.00086	-0.00166	0.00019	0.000771
0.006039	0.00058	0.004191	0.003576	-0.00131	-0.00793	-0.00248	-0.00066	-0.00313	0.000641	-0.00086	-0.00166	0.000193	0.00077
-0.00016	-0.00131	0.004459	0.003335	-0.00086	-0.00783	-0.0024	-0.00064	-0.00315	0.000623	-0.00086	-0.00165	0.000196	0.000769
-0.00425	-0.00318	0.004612	0.002998	-0.00041	-0.00771	-0.00231	-0.00063	-0.00316	0.000605	-0.00086	-0.00165	0.000199	0.000768
-0.01198	-0.005	0.004645	0.002574	4.27E-05	-0.00759	-0.00222	-0.00062	-0.00317	0.000587	-0.00087	-0.00165	0.000202	0.000767
-0.01098	-0.00669	0.00455	0.002075	0.000496	-0.00745	-0.00212	-0.00061	-0.00319	0.000569	-0.00087	-0.00164	0.000205	0.000765
-0.00338	-0.00806	0.004316	0.00152	0.000945	-0.0073	-0.00203	-0.00059	-0.0032	0.000551	-0.00087	-0.00164	0.000208	0.000764
-0.00032	-0.00898	0.003931	0.000925	0.001383	-0.00714	-0.00193	-0.00058	-0.00321	0.000533	-0.00088	-0.00164	0.000211	0.000763
0.005323	-0.00936	0.003384	0.00031	0.001806	-0.00696	-0.00184	-0.00056	-0.00322	0.000515	-0.00088	-0.00163	0.000214	0.000762
0.010591	-0.00907	0.002664	-0.00031	0.002208	-0.00678	-0.00174	-0.00055	-0.00323	0.000498	-0.00088	-0.00163	0.000217	0.000761
0.01548	-0.00804	0.00178	-0.00091	0.002585	-0.00658	-0.00164	-0.00053	-0.00323	0.00048	-0.00088	-0.00163	0.00022	0.00076
0.017026	-0.00623	0.000786	-0.00147	0.002932	-0.00637	-0.00154	-0.00052	-0.00324	0.000462	-0.00089	-0.00162	0.000224	0.000758
0.004661	-0.00366	-0.00025	-0.00198	0.003243	-0.00614	-0.00144	-0.0005	-0.00325	0.000445	-0.00089	-0.00162	0.000227	0.000757
-0.005	-0.0005	-0.00126	-0.00242	0.003513	-0.0059	-0.00134	-0.00049	-0.00325	0.000427	-0.00089	-0.00162	0.00023	0.000756
-0.01834	0.00302	-0.00217	-0.00276	0.003738	-0.00565	-0.00124	-0.00047	-0.00326	0.00041	-0.00089	-0.00161	0.000233	0.000755
-0.01046	0.006586	-0.00292	-0.003	0.003912	-0.00538	-0.00113	-0.00045	-0.00326	0.000393	-0.0009	-0.00161	0.000236	0.000754
-0.00028	0.009472	-0.00343	-0.0031	0.00403	-0.00509	-0.00103	-0.00044	-0.00327	0.000376	-0.0009	-0.00161	0.000239	0.000752
0.018432	0.010855	-0.00364	-0.00306	0.004087	-0.00479	-0.00093	-0.00042	-0.00327	0.000359	-0.0009	-0.0016	0.000242	0.000751
0.019188	0.009955	-0.00349	-0.00286	0.004081	-0.00448	-0.00082	-0.00041	-0.00327	0.000342	-0.00091	-0.0016	0.000245	0.00075
0.006745	0.006463	-0.00305	-0.00252	0.004013	-0.00415	-0.00072	-0.00039	-0.00327	0.000325	-0.00091	-0.0016	0.000248	0.000749
0.004252	0.001296	-0.00239	-0.00207	0.00389	-0.00381	-0.00061	-0.00037	-0.00327	0.000308	-0.00091	-0.00159	0.000251	0.000748
-0.00317	-0.00433	-0.0016	-0.00153	0.003717	-0.00345	-0.00051	-0.00036	-0.00327	0.000291	-0.00091	-0.00159	0.000254	0.000746
-0.00991	-0.0092	-0.00075	-0.00092	0.0035	-0.00308	-0.0004	-0.00034	-0.00327	0.000275	-0.00092	-0.00159	0.000257	0.000745
-0.01902	-0.01211	8.23E-05	-0.00027	0.003246	-0.0027	-0.0003	-0.00032	-0.00327	0.000258	-0.00092	-0.00158	0.00026	0.000744
-0.01323	-0.01217	0.000819	0.000395	0.00296	-0.00231	-0.00019	-0.0003	-0.00326	0.000242	-0.00092	-0.00158	0.000263	0.000743
-0.00697	-0.0098	0.00144	0.001047	0.002649	-0.00191	-8.94E-05	-0.00029	-0.00326	0.000226	-0.00092	-0.00158	0.000266	0.000742
0.004121	-0.00577	0.001936	0.001662	0.002319	-0.00151	1.41E-05	-0.00027	-0.00326	0.000209	-0.00093	-0.00157	0.000269	0.00074
0.010539	-0.00084	0.002299	0.002215	0.001976	-0.0011	0.000117	-0.00025	-0.00325	0.000193	-0.00093	-0.00157	0.000272	0.000739
0.015726	0.004221	0.002522	0.002681	0.001627	-0.00069	0.00022	-0.00023	-0.00325	0.000177	-0.00093	-0.00157	0.000275	0.000738
0.017719	0.00866	0.002595	0.003035	0.001278	-0.00028	0.000321	-0.00022	-0.00324	0.000161	-0.00093	-0.00156	0.000279	0.000737
-0.00082	0.011795	0.002506	0.003257	0.000935	0.000136	0.000422	-0.0002	-0.00323	0.000145	-0.00094	-0.00156	0.000282	0.000735
-0.00669	0.013278	0.002218	0.003349	0.000602	0.000551	0.000522	-0.00018	-0.00322	0.000129	-0.00094	-0.00156	0.000285	0.000734
-0.01437	0.012823	0.00171	0.003327	0.000281	0.000964	0.000621	-0.00017	-0.00322	0.000114	-0.00094	-0.00155	0.000288	0.000733
-0.01664	0.010057	0.001042	0.003207	-2.68E-05	0.001374	0.000719	-0.00015	-0.00321	9.80E-05	-0.00094	-0.00155	0.000291	0.000732
-0.01564	0.004778	0.000298	0.003008	-0.00032	0.001781	0.000815	-0.00013	-0.0032	8.25E-05	-0.00095	-0.00155	0.000294	0.000731
-0.00592	-0.00223	-0.00044	0.002746	-0.00061	0.002182	0.000911	-0.00011	-0.00319	6.70E-05	-0.00095	-0.00154	0.000297	0.000729
0.007517	-0.00903	-0.00109	0.002438	-0.00088	0.002578	0.001005	-9.61E-05	-0.00318	5.17E-05	-0.00095	-0.00154	0.0003	0.000728
0.015666	-0.01343	-0.00157	0.0021	-0.00114	0.002966	0.001097	-7.90E-05	-0.00316	3.64E-05	-0.00095	-0.00154	0.000303	0.000727
0.006437	-0.01386	-0.00179	0.001747	-0.00138	0.003345	0.001188	-6.19E-05	-0.00315	2.12E-05	-0.00096	-0.00153	0.000306	0.000726
-0.0034	-0.01105	-0.00171	0.001395	-0.00161	0.003714	0.001277	-4.49E-05	-0.00314	6.12E-06	-0.00096	-0.00153	0.000309	0.000724
-0.01432	-0.00618	-0.00138	0.001051	-0.00182	0.004073	0.001364	-2.81E-05	-0.00313	-8.88E-06	-0.00096	-0.00153	0.000312	0.000723
-0.01493	-0.00038	-0.00088	0.000717	-0.00201	0.00442	0.00145	-1.14E-05	-0.00311	-2.38E-05	-0.00096	-0.00152	0.000315	0.000722
-0.00838	0.005401	-0.0003	0.000395	-0.00219	0.004754	0.001533	5.25E-06	-0.0031	-3.86E-05	-0.00097	-0.00152	0.000318	0.000721
0.000176	0.010274	0.000279	8.58E-05	-0.00234	0.005074	0.001615	2.17E-05	-0.00308	-5.34E-05	-0.00097	-0.00152	0.000321	0.000719
0.009476	0.013346	0.00078	-0.00021	-0.00248	0.00538	0.001694	3.80E-05	-0.00307	-6.80E-05	-0.00097	-0.00151	0.000324	0.000718
0.014475	0.013727	0.001118	-0.00049	-0.00259	0.00567	0.001771	5.42E-05	-0.00305	-8.26E-05	-0.00097	-0.00151	0.000327	0.000717
0.011686	0.010883	0.001231	-0.00075	-0.00269	0.005943	0.001846	7.01E-05	-0.00303	-9.71E-05	-0.00097	-0.00151	0.00033	0.000716
0.006809	0.005721	0.001143	-0.001	-0.00276	0.0062	0.001918	8.59E-05	-0.00301	-0.00011	-0.00098	-0.0015	0.000333	0.000714
0.000268	-0.00049	0.000907	-0.00124	-0.00281	0.00644	0.001988	0.000102	-0.003	-0.00013	-0.00098	-0.0015	0.000336	0.000713
-0.00639	-0.0065	0.000575	-0.00148	-0.00283	0.006662	0.002055	0.000117	-0.00298	-0.00014	-0.00098	-0.0015	0.000339	0.000712
-0.01427	-0.01102	0.000197	-0.00173	-0.00284	0.006867	0.002119	0.000132	-0.00296	-0.00015	-0.00098	-0.00149	0.000342	0.000711
-0.01238	-0.01308	-0.00018	-0.00199	-0.00282	0.007054	0.00218	0.000147	-0.00294	-0.00017	-0.00099	-0.00149	0.000345	0.000709
-0.00633	-0.0128	-0.0005	-0.00227	-0.00278	0.007224	0.002239	0.000162	-0.00292	-0.00018	-0.00099	-0.00149	0.000348	0.000708
-0.00288	-0.01067	-0.00076	-0.00258	-0.00272	0.007377	0.002294	0.000176	-0.0029	-0.0002	-0.00099	-0.00148	0.000351	0.000707
0.001543	-0.00723	-0.00093	-0.00292	-0.00264	0.007513	0.002347	0.00019	-0.00287	-0.00021	-0.00099	-0.00148	0.000354	0.000705
0.004305	-0.003	-0.00101	-0.00329	-0.00255	0.007632	0.002396	0.000204	-0.00285	-0.00022	-0.00099	-0.00148	0.000357	0.000704
0.00745	0.0015	-0.00098	-0.00371	-0.00243	0.007733	0.002442	0.000218	-0.00283	-0.00024	-0.001	-0.00147	0.000361	0.000703
0.009965	0.005744	-0.00084	-0.00416	-0.0023	0.007819	0.002484	0.000231	-0.00281	-0.00025	-0.001	-0.00147	0.000364	0.000702
0.014408	0.009208	-0.00061	-0.00462	-0.00216	0.007887	0.002523	0.000244	-0.00278	-0.00026	-0.001	-0.00147	0.000367	0.0007
0.014567	0.011368	-0.00029	-0.00507	-0.00201	0.00794	0.002558	0.000256	-0.00276	-0.00028	-0.001	-0.00146	0.00037	0.000699
0.006544	0.011831	8.15E-05	-0.00548	-0.00185	0.007976	0.00259	0.000269	-0.00274	-0.00029	-0.00101	-0.00146	0.000373	0.000698
0.001107	0.010739	0.000489	-0.00582	-0.00169	0.007996	0.002617	0.000281	-0.00271	-0.0003	-0.00101	-0.00145	0.000376	0.000697
-0.00457	0.008388	0.000885	-0.00606	-0.00151	0.008	0.002641	0.000292	-0.00268	-0.00032	-0.00101	-0.00145	0.000379	0.000695
-0.01046	0.005074	0.001218	-0.00618	-0.00134	0.007988	0.002661	0.000303	-0.00266	-0.00033	-0.00101	-0.00145	0.000382	0.000694
-0.01244	0.001097	0.001438	-0.00613	-0.00116	0.00796	0.002677	0.000314	-0.00263	-0.00034	-0.00101	-0.00144	0.000385	0.000693
-0.01489	-0.00325	0.001497	-0.0059	-0.00098	0.007916	0.00269	0.000325	-0.00261	-0.00036	-0.00102	-0.00144	0.000388	0.000691
-0.007	-0.00751	0.001367	-0.00548	-0.0008	0.007856	0.002698	0.000334	-0.00258	-0.00037	-0.00102	-0.00144	0.000391	0.00069
0.006036	-0.01064	0.001048	-0.00489	-0.00062	0.00778	0.002704	0.000344	-0.00255	-0.00038	-0.00102	-0.00143	0.000394	0.000689
0.014985	-0.01147	0.000546	-0.00416	-0.00045	0.007688	0.002705	0.000353	-0.00252	-0.00039	-0.00102	-0.00143	0.000397	0.000687
0.012342	-0.00921	-0.00012	-0.00332	-0.00027	0.007579	0.002704	0.000362	-0.00249	-0.00041	-0.00102	-0.00143	0.0004	0.000686
0.001729	-0.00467	-0.00086	-0.0024	-8.66E-05	0.007455	0.002699	0.00037	-0.00246	-0.00042	-0.00103	-0.00142	0.000403	0.000685
-0.00591	0.000907	-0.00156	-0.00142	9.16E-05	0.007314	0.002691	0.000378	-0.00244	-0.00043	-0.00103	-0.00142	0.000406	0.000684
-0.01118	0.006314	-0.00214	-0.00041	0.000268	0.007157	0.00268	0.000385	-0.00241	-0.00044	-0.00103	-0.00142	0.000409	0.000682
-0.01495	0.010419	-0.00247	0.000592	0.000443	0.006984	0.002666	0.000392	-0.00238	-0.00046	-0.00103	-0.00141	0.000412	0.000681
-0.01342	0.012303	-0.00246	0.001562	0.000616	0.006796	0.002649	0.000399	-0.00234	-0.00047	-0.00103	-0.00141	0.000415	0.00068
-0.00134	0.011859	-0.00204	0.00249	0.000785	0.006593	0.002629	0.000405	-0.00231	-0.00048	-0.00104	-0.0014	0.000418	0.000678
0.004027	0.009295	-0.0013	0.003374	0.00095	0.006374	0.002606	0.00041	-0.00228	-0.00049	-0.00104	-0.0014	0.000421	0.000677
0.014689	0.004853	-0.00034	0.004213	0.001111	0.006142	0.002581	0.000415	-0.00225	-0.0005	-0.00104	-0.0014	0.000424	0.000676
0.010742	-0.00104	0.000741	0.005004	0.001266	0.005896	0.002553	0.00042	-0.00222	-0.00052	-0.00104	-0.00139	0.000427	0.000674
-0.00155	-0.00719	0.001837	0.005745	0.001414	0.005636	0.002522	0.000425	-0.00219	-0.00053	-0.00104	-0.00139	0.00043	0.000673
-0.01051	-0.01223	0.00284	0.006434	0.001554	0.005364	0.002489	0.000429	-0.00215	-0.00054	-0.00104	-0.00139	0.000433	0.000672
-0.01423	-0.01479	0.003646	0.007067	0.001686	0.00508	0.002453	0.000433	-0.00212	-0.00055	-0.00105	-0.00138	0.000436	0.00067
-0.00719	-0.01388	0.004171	0.007644	0.001809	0.004785	0.002415	0.000436	-0.00209	-0.00056	-0.00105	-0.00138	0.000439	0.000669
-0.00083	-0.01009	0.004422	0.008161	0.00192	0.004479	0.002375	0.000439	-0.00205	-0.00057	-0.00105	-0.00138	0.000442	0.000668
0.005186	-0.00441	0.004433	0.008609	0.002021	0.004163	0.002333	0.000442	-0.00202	-0.00058	-0.00105	-0.00137	0.000445	0.000666
0.008767	0.002188	0.00423	0.008986	0.002108	0.003838	0.002288	0.000444	-0.00198	-0.0006	-0.00105	-0.00137	0.000448	0.000665

0.013416	0.008709	0.003837	0.009295	0.002181	0.003505	0.002242	0.000446	-0.00195	-0.00061	-0.00106	-0.00136	0.000451	0.000664
0.013269	0.014166	0.003273	0.00954	0.00224	0.003164	0.002193	0.000448	-0.00191	-0.00062	-0.00106	-0.00136	0.000454	0.000662
0.007907	0.017731	0.002558	0.009727	0.002284	0.002816	0.002143	0.000449	-0.00188	-0.00063	-0.00106	-0.00136	0.000457	0.000661
0.000521	0.019347	0.001712	0.009859	0.002312	0.002462	0.002091	0.00045	-0.00184	-0.00064	-0.00106	-0.00135	0.000459	0.00066
-0.00436	0.019148	0.000757	0.009942	0.002324	0.002103	0.002037	0.000451	-0.00181	-0.00065	-0.00106	-0.00135	0.000462	0.000658
-0.00934	0.017263	-0.00028	0.009978	0.00232	0.00174	0.001982	0.000452	-0.00177	-0.00066	-0.00106	-0.00135	0.000465	0.000657
-0.01164	0.013816	-0.00136	0.009972	0.002303	0.001373	0.001925	0.000452	-0.00173	-0.00067	-0.00107	-0.00134	0.000468	0.000656
-0.01191	0.008933	-0.00245	0.009925	0.002271	0.001003	0.001866	0.000451	-0.0017	-0.00068	-0.00107	-0.00134	0.000471	0.000654
-0.01076	0.002757	-0.00353	0.009842	0.002227	0.000632	0.001806	0.000451	-0.00166	-0.00069	-0.00107	-0.00134	0.000474	0.000653
-0.00767	-0.00444	-0.00456	0.009726	0.00217	0.00026	0.001745	0.00045	-0.00162	-0.0007	-0.00107	-0.00133	0.000477	0.000651
0.000336	-0.012	-0.00551	0.00958	0.002101	-0.00011	0.001683	0.000449	-0.00159	-0.00071	-0.00107	-0.00133	0.00048	0.00065
0.005487	-0.01882	-0.00634	0.009408	0.002022	-0.00048	0.00162	0.000448	-0.00155	-0.00072	-0.00107	-0.00132	0.000483	0.000649
0.010528	-0.02381	-0.00703	0.009213	0.001932	-0.00085	0.001555	0.000446	-0.00151	-0.00073	-0.00108	-0.00132	0.000486	0.000647
0.010197	-0.02613	-0.00753	0.008998	0.001833	-0.00122	0.00149	0.000444	-0.00147	-0.00074	-0.00108	-0.00132	0.000489	0.000646
0.007386	-0.02585	-0.00783	0.008769	0.001725	-0.00158	0.001423	0.000442	-0.00143	-0.00075	-0.00108	-0.00131	0.000492	0.000645
0.004565	-0.02334	-0.00789	0.008531	0.001609	-0.00194	0.001356	0.000439	-0.00139	-0.00076	-0.00108	-0.00131	0.000495	0.000643
0.000144	-0.01893	-0.00774	0.008291	0.001485	-0.00229	0.001288	0.000436	-0.00136	-0.00077	-0.00108	-0.00131	0.000498	0.000642
-0.00788	-0.01295	-0.00738	0.008044	0.001355	-0.00264	0.00122	0.000433	-0.00132	-0.00078	-0.00108	-0.0013	0.000501	0.00064
-0.00833	-0.00584	-0.00684	0.007786	0.001219	-0.00298	0.001151	0.00043	-0.00128	-0.00079	-0.00109	-0.0013	0.000504	0.000639
-0.00379	0.001634	-0.00613	0.007512	0.001077	-0.00332	0.001081	0.000426	-0.00124	-0.0008	-0.00109	-0.00129	0.000507	0.000638
-0.00164	0.008919	-0.00528	0.007218	0.000931	-0.00364	0.001011	0.000422	-0.0012	-0.00081	-0.00109	-0.00129	0.00051	0.000636
0.001868	0.015547	-0.0043	0.006905	0.000781	-0.00395	0.000941	0.000418	-0.00116	-0.00082	-0.00109	-0.00129	0.000513	0.000635
0.006413	0.021053	-0.00323	0.006571	0.000628	-0.00426	0.000871	0.000413	-0.00112	-0.00083	-0.00109	-0.00128	0.000516	0.000634
0.003426	0.025151	-0.00207	0.006218	0.000472	-0.00455	0.0008	0.000409	-0.00108	-0.00084	-0.00109	-0.00128	0.000519	0.000632
-0.00276	0.02822	-0.00085	0.005846	0.000315	-0.00483	0.000729	0.000404	-0.00104	-0.00085	-0.00109	-0.00128	0.000522	0.000631
-0.00474	0.03062	0.0004	0.005454	0.000156	-0.0051	0.000658	0.000398	-0.001	-0.00086	-0.0011	-0.00127	0.000525	0.000629
-0.00357	0.032623	0.001663	0.005044	-2.45E-06	-0.00535	0.000588	0.000393	-0.00096	-0.00087	-0.0011	-0.00127	0.000527	0.000628
-0.00093	0.033165	0.002911	0.004616	-0.00016	-0.00559	0.000517	0.000387	-0.00092	-0.00088	-0.0011	-0.00126	0.00053	0.000627
0.003005	0.030839	0.004109	0.00417	-0.00032	-0.00581	0.000447	0.000381	-0.00088	-0.00089	-0.0011	-0.00126	0.000533	0.000625
-0.00116	0.024747	0.005237	0.003706	-0.00047	-0.00602	0.000377	0.000375	-0.00084	-0.0009	-0.0011	-0.00126	0.000536	0.000624
-0.00196	0.01609	0.00628	0.003224	-0.00063	-0.00621	0.000307	0.000369	-0.00079	-0.00091	-0.0011	-0.00125	0.000539	0.000622
1.65E-05	0.006483	0.007222	0.002726	-0.00078	-0.00638	0.000238	0.000362	-0.00075	-0.00091	-0.0011	-0.00125	0.000542	0.000621
0.00116	-0.00289	0.00805	0.002209	-0.00092	-0.00653	0.00017	0.000355	-0.00071	-0.00092	-0.00111	-0.00125	0.000545	0.00062
-0.0009	-0.01211	0.008756	0.001665	-0.00106	-0.00666	0.000102	0.000348	-0.00067	-0.00093	-0.00111	-0.00124	0.000548	0.000618
0.000731	-0.02375	0.009335	0.001085	-0.0012	-0.00677	3.47E-05	0.00034	-0.00063	-0.00094	-0.00111	-0.00124	0.000551	0.000617
-0.00065	-0.03295	0.009786	0.000455	-0.00133	-0.00686	-3.17E-05	0.000333	-0.00059	-0.00095	-0.00111	-0.00123	0.000554	0.000615
0.000606	-0.03362	0.010124	-0.00024	-0.00145	-0.00692	-9.71E-05	0.000325	-0.00055	-0.00096	-0.00111	-0.00123	0.000557	0.000614
-0.00057	-0.02912	0.010414	-0.00101	-0.00157	-0.00696	-0.00016	0.000317	-0.0005	-0.00096	-0.00111	-0.00123	0.00056	0.000612
0.000531	-0.02222	0.010675	-0.00188	-0.00168	-0.00698	-0.00022	0.000309	-0.00046	-0.00097	-0.00111	-0.00122	0.000563	0.000611
-0.00047	-0.0126	0.010901	-0.00285	-0.00178	-0.00697	-0.00029	0.000301	-0.00042	-0.00098	-0.00112	-0.00122	0.000565	0.00061
0.000413	-0.00445	0.01108	-0.00392	-0.00187	-0.00694	-0.00035	0.000292	-0.00038	-0.00099	-0.00112	-0.00122	0.000568	0.000608
-0.00036	0.000181	0.011186	-0.00508	-0.00194	-0.00688	-0.00041	0.000283	-0.00034	-0.001	-0.00112	-0.00121	0.000571	0.000607
-0.0001	0.004118	0.011183	-0.0063	-0.00201	-0.00679	-0.00047	0.000274	-0.0003	-0.00101	-0.00112	-0.00121	0.000574	0.000605
0.0003	0.00877	0.011024	-0.00756	-0.00207	-0.00667	-0.00052	0.000265	-0.00025	-0.00101	-0.00112	-0.0012	0.000577	0.000604
2.79E-06	0.014179	0.010659	-0.00881	-0.00211	-0.00653	-0.00058	0.000256	-0.00021	-0.00102	-0.00112	-0.0012	0.00058	0.000602
-0.00031	0.019981	0.01004	-0.01003	-0.00213	-0.00636	-0.00064	0.000246	-0.00017	-0.00103	-0.00112	-0.0012	0.000583	0.000601
-0.00032	0.024942	0.009117	-0.01117	-0.00214	-0.00616	-0.00069	0.000237	-0.00013	-0.00104	-0.00112	-0.00119	0.000586	0.0006
0.00036	0.027771	0.007841	-0.01219	-0.00212	-0.00593	-0.00074	0.000227	-8.62E-05	-0.00104	-0.00113	-0.00119	0.000589	0.000598
-0.00041	0.027871	0.006167	-0.01307	-0.00208	-0.00569	-0.00079	0.000217	-4.44E-05	-0.00105	-0.00113	-0.00119	0.000592	0.000597
-0.00024	0.025973	0.00409	-0.01376	-0.00201	-0.00542	-0.00084	0.000207	-2.50E-06	-0.00106	-0.00113	-0.00118	0.000595	0.000595
0.000579	0.023334	0.001726	-0.01424	-0.00191	-0.00513	-0.00089	0.000196	3.93E-05	-0.00107	-0.00113	-0.00118	0.000597	0.000594
-0.0007	0.020995	-0.00078	-0.01445	-0.00177	-0.00482	-0.00094	0.000186	8.11E-05	-0.00107	-0.00113	-0.00117	0.0006	0.000592
-0.00025	0.017396	-0.00329	-0.01437	-0.00159	-0.0045	-0.00098	0.000175	0.000123	-0.00108	-0.00113	-0.00117	0.000603	0.000591
-5.84E-05	0.012804	-0.00565	-0.01395	-0.00139	-0.00416	-0.00103	0.000164	0.000165	-0.00109	-0.00113	-0.00117	0.000606	0.000589
0.000772	0.007472	-0.00772	-0.01315	-0.00116	-0.00381	-0.00107	0.000153	0.000206	-0.0011	-0.00113	-0.00116	0.000609	0.000588
0.001313	0.001331	-0.00935	-0.01192	-0.00091	-0.00345	-0.00111	0.000142	0.000248	-0.0011	-0.00113	-0.00116	0.000612	0.000587
0.001522	-0.00546	-0.01038	-0.01024	-0.00064	-0.00308	-0.00115	0.000131	0.000289	-0.00111	-0.00114	-0.00115	0.000615	0.000585
0.001112	-0.01207	-0.01064	-0.00809	-0.00036	-0.0027	-0.00119	0.00012	0.000331	-0.00112	-0.00114	-0.00115	0.000618	0.000584
-0.00034	-0.01674	-0.00988	-0.00553	-8.18E-05	-0.00231	-0.00123	0.000108	0.000372	-0.00112	-0.00114	-0.00115	0.00062	0.000582
-0.00198	-0.01748	-0.00787	-0.00266	0.000199	-0.00192	-0.00126	9.69E-05	0.000413	-0.00113	-0.00114	-0.00114	0.000623	0.000581
0.002098	-0.01314	-0.00466	0.000355	0.000475	-0.00153	-0.00129	8.52E-05	0.000455	-0.00114	-0.00114	-0.00114	0.000626	0.000579
-0.00114	-0.00534	-0.00079	0.003392	0.00074	-0.00113	-0.00133	7.34E-05	0.000496	-0.00114	-0.00114	-0.00114	0.000629	0.000578
-0.00228	0.002984	0.003155	0.00631	0.000989	-0.00074	-0.00136	6.15E-05	0.000536	-0.00115	-0.00114	-0.00113	0.000632	0.000576
-0.00132	0.009713	0.006568	0.008969	0.001217	-0.00035	-0.00139	4.95E-05	0.000577	-0.00116	-0.00114	-0.00113	0.000635	0.000575
0.002446	0.012036	0.008845	0.011229	0.001418	4.00E-05	-0.00141	3.74E-05	0.000618	-0.00116	-0.00114	-0.00112	0.000638	0.000573
-0.00254	0.008029	0.009547	0.012954	0.001588	0.000423	-0.00144	2.52E-05	0.000658	-0.00117	-0.00115	-0.00112	0.000641	0.000572
0.001728	0.000721	0.00887	0.014015	0.001722	0.000799	-0.00146	1.29E-05	0.000699	-0.00118	-0.00115	-0.00112	0.000643	0.00057
0.002759	-0.00516	0.007104	0.01436	0.001813	0.001166	-0.00148	5.47E-07	0.000739	-0.00118	-0.00115	-0.00111	0.000646	0.000569
0.002689	-0.00791	0.00444	0.014028	0.001859	0.001522	-0.0015	-1.19E-05	0.000779	-0.00119	-0.00115	-0.00111	0.000649	0.000567
0.000153	-0.00742	0.001071	0.013072	0.001864	0.001867	-0.00152	-2.44E-05	0.000819	-0.00119	-0.00115	-0.0011	0.000652	0.000566
-0.003	-0.00423	-0.00265	0.011542	0.001832	0.002198	-0.00154	-3.71E-05	0.000859	-0.0012	-0.00115	-0.0011	0.000655	0.000564
-0.00071	-0.00016	-0.00599	0.009491	0.001769	0.002514	-0.00155	-4.97E-05	0.000898	-0.00121	-0.00115	-0.0011	0.000658	0.000563
0.002999	0.003009	-0.00812	0.006968	0.001676	0.002816	-0.00157	-6.25E-05	0.000938	-0.00121	-0.00115	-0.00109	0.00066	0.000561
0.001636	0.003792	-0.00815	0.004027	0.001559	0.003105	-0.00158	-7.53E-05	0.000977	-0.00122	-0.00115	-0.00109	0.000663	0.00056
0.000768	0.002144	-0.00566	0.000746	0.001419	0.003379	-0.00159	-8.82E-05	0.001016	-0.00122	-0.00115	-0.00108	0.000666	0.000558
-0.00162	-0.00046	-0.00166	-0.00267	0.001261	0.00364	-0.00159	-0.0001	0.001054	-0.00123	-0.00116	-0.00108	0.000669	0.000557
-0.00255	-0.0022	0.002487	-0.00597	0.001088	0.003887	-0.0016	-0.00011	0.001093	-0.00123	-0.00116	-0.00108	0.000672	0.000555
-0.00043	-0.00187	0.005632	-0.00888	0.000903	0.00412	-0.0016	-0.00013	0.001131	-0.00124	-0.00116	-0.00107	0.000675	0.000554
0.000641	-0.00034	0.007294	-0.01115	0.00071	0.00434	-0.0016	-0.00014	0.001169	-0.00125	-0.00116	-0.00107	0.000678	0.000552
0.001989	0.001061	0.007207	-0.01262	0.000513	0.004545	-0.0016	-0.00015	0.001207	-0.00125	-0.00116	-0.00106	0.00068	0.000551
-0.00181	0.001233	0.005391	-0.01332	0.000316	0.004736	-0.0016	-0.00017	0.001244	-0.00126	-0.00116	-0.00106	0.000683	0.000549
-0.00031	0.000149	0.00243	-0.01333	0.000121	0.004913	-0.0016	-0.00018	0.001282	-0.00126	-0.00116	-0.00106	0.000686	0.000548
0.001532	-0.00111	-0.00089	-0.01274	-6.67E-05	0.005076	-0.00159	-0.00019	0.001319	-0.00127	-0.00116	-0.00105	0.000689	0.000546
0.001537	-0.00128	-0.00377	-0.01163	-0.00025	0.005224	-0.00158	-0.00021	0.001355	-0.00127	-0.00116	-0.00105	0.000692	0.000545
-0.00161	-1.32E-05	-0.00557	-0.01008	-0.00042	0.005357	-0.00157	-0.00022	0.001392	-0.00128	-0.00116	-0.00105	0.000694	0.000543
-0.0011	0.001177	-0.00631	-0.00819	-0.00058	0.005475	-0.00156	-0.00023	0.001428	-0.00128	-0.00116	-0.00104	0.000697	0.000542
0.00072	0.001971	-0.00616	-0.00605	-0.00073	0.005577	-0.00154	-0.00025	0.001464	-0.00129	-0.00116	-0.00104	0.0007	0.00054
0.001765	0.002486	-0.00531	-0.00375	-0.00086	0.005664	-0.00153	-0.00026	0.001499	-0.00129	-0.00117	-0.00103	0.000703	0.000539
0.002813	0.00284	-0.00398	-0.00138	-0.00098	0.005735	-0.00151	-0.00027	0.001534	-0.0013	-0.00117	-0.00103	0.000706	0.000537
-0.00072	0.003114	-0.00238	0.001003	-0.00109	0.00579	-0.00149	-0.00029	0.001569	-0.0013	-0.00117	-0.00103	0.000708	0.000536
-0.0038	0.003225	-0.0007	0.003314	-0.00118	0.005828	-0.00146	-0.0003	0.001604	-0.00131	-0.00117	-0.00102	0.000711	0.000534
-0.00427	0.003145	0.000856	0.005477	-0.00125	0.00585	-0.00144	-0.00031	0.001638	-0.00131	-0.00117	-0.00102	0.000714	0.000533
-0.00342	0.00308	0.002205	0.007417	-0.0013	0.005855	-0.00141	-0.00032	0.001672	-0.00132	-0.00117	-0.00101	0.000717	0.000531

-0.00174	0.002826	0.003317	0.009057	-0.00133	0.005843	-0.00138	-0.00034	0.001705	-0.00132	-0.00117	-0.00101	0.00072	0.000529
0.001174	0.002041	0.00419	0.010322	-0.00135	0.005815	-0.00135	-0.00035	0.001738	-0.00132	-0.00117	-0.00101	0.000722	0.000528
0.006166	0.000383	0.004815	0.011135	-0.00133	0.005769	-0.00131	-0.00036	0.001771	-0.00133	-0.00117	-0.001	0.000725	0.000526
0.00515	-0.00228	0.005217	0.011431	-0.0013	0.005707	-0.00128	-0.00038	0.001803	-0.00133	-0.00117	-0.001	0.000728	0.000525
0.000887	-0.00513	0.005376	0.011203	-0.00124	0.005627	-0.00124	-0.00039	0.001835	-0.00134	-0.00117	-0.00099	0.000731	0.000523
-0.00247	-0.00707	0.005213	0.010507	-0.00116	0.00553	-0.0012	-0.0004	0.001866	-0.00134	-0.00117	-0.00099	0.000734	0.000522
-0.0072	-0.00704	0.004626	0.009414	-0.00106	0.005417	-0.00116	-0.00041	0.001898	-0.00135	-0.00117	-0.00099	0.000736	0.00052
-0.00186	-0.00432	0.00354	0.007995	-0.00094	0.005287	-0.00111	-0.00042	0.001928	-0.00135	-0.00117	-0.00098	0.000739	0.000519
0.000231	0.00013	0.002088	0.006323	-0.0008	0.005141	-0.00107	-0.00044	0.001958	-0.00135	-0.00118	-0.00098	0.000742	0.000517
0.00528	0.00494	0.000455	0.004469	-0.00066	0.004982	-0.00102	-0.00045	0.001988	-0.00136	-0.00118	-0.00097	0.000745	0.000516
0.006851	0.008748	-0.00117	0.002506	-0.0005	0.004809	-0.00097	-0.00046	0.002018	-0.00136	-0.00118	-0.00097	0.000747	0.000514
0.001853	0.010521	-0.00262	0.000506	-0.00035	0.004624	-0.00092	-0.00047	0.002046	-0.00137	-0.00118	-0.00097	0.00075	0.000512
0.000381	0.010579	-0.00376	-0.00146	-0.00018	0.004427	-0.00087	-0.00048	0.002075	-0.00137	-0.00118	-0.00096	0.000753	0.000511
-0.00381	0.009653	-0.00456	-0.00332	-2.23E-05	0.004219	-0.00082	-0.00049	0.002103	-0.00137	-0.00118	-0.00096	0.000756	0.000509
-0.00512	0.008533	-0.00506	-0.005	0.000135	0.004002	-0.00076	-0.0005	0.00213	-0.00138	-0.00118	-0.00095	0.000759	0.000508
-0.00143	0.007528	-0.00529	-0.00642	0.000285	0.003778	-0.00071	-0.00051	0.002157	-0.00138	-0.00118	-0.00095	0.000761	0.000506
0.003903	0.005077	-0.0053	-0.00754	0.000424	0.003546	-0.00065	-0.00052	0.002184	-0.00138	-0.00118	-0.00095	0.000764	0.000505
0.003539	-0.00038	-0.00509	-0.00832	0.00055	0.003309	-0.0006	-0.00053	0.00221	-0.00139	-0.00118	-0.00094	0.000767	0.000503
0.000676	-0.00788	-0.0046	-0.00879	0.000657	0.003068	-0.00054	-0.00053	0.002235	-0.00139	-0.00118	-0.00094	0.00077	0.000501
-0.00214	-0.01336	-0.00378	-0.00897	0.000743	0.002825	-0.00049	-0.00054	0.00226	-0.00139	-0.00118	-0.00093	0.000772	0.0005
0.001706	-0.01304	-0.00261	-0.0089	0.000805	0.002582	-0.00043	-0.00055	0.002285	-0.0014	-0.00118	-0.00093	0.000775	0.000498
-0.00139	-0.00848	-0.00119	-0.0086	0.000843	0.002338	-0.00037	-0.00056	0.002309	-0.0014	-0.00118	-0.00093	0.000778	0.000497
0.00104	-0.00547	0.000357	-0.0081	0.000858	0.002097	-0.00031	-0.00056	0.002332	-0.0014	-0.00118	-0.00092	0.000781	0.000495
0.001096	-0.00085	0.001918	-0.00744	0.00085	0.001859	-0.00025	-0.00057	0.002355	-0.00141	-0.00118	-0.00092	0.000783	0.000493
0.000174	0.005559	0.003364	-0.00664	0.00082	0.001627	-0.0002	-0.00057	0.002377	-0.00141	-0.00118	-0.00091	0.000786	0.000492
-0.00106	0.011922	0.004574	-0.00574	0.00077	0.0014	-0.00014	-0.00058	0.002399	-0.00141	-0.00118	-0.00091	0.000789	0.00049
0.00106	0.014922	0.005423	-0.00477	0.000702	0.001178	-8.00E-05	-0.00058	0.00242	-0.00142	-0.00118	-0.00091	0.000791	0.000489
-0.00103	0.01052	0.005822	-0.00375	0.000619	0.000962	-2.22E-05	-0.00059	0.00244	-0.00142	-0.00119	-0.0009	0.000794	0.000487
0.000665	0.003142	0.005819	-0.00273	0.000524	0.000749	3.53E-05	-0.00059	0.00246	-0.00142	-0.00119	-0.0009	0.000797	0.000485
0.000872	-0.00403	0.005491	-0.00173	0.00042	0.00054	9.24E-05	-0.00059	0.00248	-0.00143	-0.00119	-0.00089	0.0008	0.000484
-0.00076	-0.00927	0.004899	-0.00075	0.000309	0.000334	0.000149	-0.00059	0.002498	-0.00143	-0.00119	-0.00089	0.000802	0.000482
4.71E-05	-0.01252	0.004095	0.000187	0.000195	0.000131	0.000205	-0.00059	0.002516	-0.00143	-0.00119	-0.00089	0.000805	0.000481
0.000537	-0.01404	0.003131	0.001094	7.95E-05	-7.05E-05	0.00026	-0.00059	0.002534	-0.00143	-0.00119	-0.00088	0.000808	0.000479
-0.00046	-0.01443	0.002066	0.001957	-3.40E-05	-0.00027	0.000315	-0.00059	0.002551	-0.00144	-0.00119	-0.00088	0.00081	0.000477
0.000421	-0.01488	0.000961	0.002765	-0.00014	-0.00047	0.000368	-0.00059	0.002567	-0.00144	-0.00119	-0.00087	0.000813	0.000476
-0.00045	-0.01333	-0.00013	0.003505	-0.00024	-0.00067	0.000421	-0.00059	0.002582	-0.00144	-0.00119	-0.00087	0.000816	0.000474
-0.00047	-0.00881	-0.0012	0.004166	-0.00034	-0.00087	0.000472	-0.00059	0.002597	-0.00144	-0.00119	-0.00087	0.000819	0.000473
0.000554	-0.00273	-0.00224	0.004736	-0.00041	-0.00107	0.000522	-0.00058	0.002611	-0.00145	-0.00119	-0.00086	0.000821	0.000471
-0.00068	0.004536	-0.00324	0.005203	-0.00048	-0.00127	0.000571	-0.00058	0.002625	-0.00145	-0.00119	-0.00086	0.000824	0.000469
0.000842	0.011353	-0.00421	0.005557	-0.00052	-0.00148	0.000619	-0.00057	0.002637	-0.00145	-0.00119	-0.00085	0.000827	0.000468
0.000586	0.013591	-0.00514	0.005784	-0.00054	-0.00168	0.000665	-0.00056	0.00265	-0.00145	-0.00119	-0.00085	0.000829	0.000466
-0.00119	0.010474	-0.006	0.005874	-0.00054	-0.00189	0.000709	-0.00056	0.002661	-0.00145	-0.00119	-0.00085	0.000832	0.000464
0.001328	0.004486	-0.00674	0.005815	-0.00052	-0.0021	0.000752	-0.00055	0.002672	-0.00146	-0.00119	-0.00084	0.000835	0.000463
0.001044	-0.00093	-0.00725	0.0056	-0.00048	-0.00231	0.000793	-0.00054	0.002682	-0.00146	-0.00119	-0.00084	0.000837	0.000461
-0.00041	-0.00514	-0.00744	0.005221	-0.00042	-0.00251	0.000832	-0.00053	0.002691	-0.00146	-0.00119	-0.00083	0.00084	0.00046
-0.00149	-0.00834	-0.00723	0.004671	-0.00034	-0.00272	0.00087	-0.00052	0.0027	-0.00146	-0.00119	-0.00083	0.000843	0.000458
0.00145	-0.01058	-0.00654	0.003948	-0.00026	-0.00291	0.000905	-0.00051	0.002708	-0.00146	-0.00119	-0.00082	0.000845	0.000456
0.000993	-0.01106	-0.00528	0.003067	-0.00017	-0.00311	0.000938	-0.0005	0.002716	-0.00147	-0.00119	-0.00082	0.000848	0.000455
0.000265	-0.01029	-0.00348	0.002068	-7.26E-05	-0.00329	0.000968	-0.00048	0.002723	-0.00147	-0.00119	-0.00082	0.000851	0.000453
-0.00122	-0.00807	-0.00127	0.001	2.30E-05	-0.00347	0.000997	-0.00047	0.002729	-0.00147	-0.00119	-0.00081	0.000853	0.000451
0.001165	-0.00368	0.00112	-9.04E-05	0.000117	-0.00364	0.001023	-0.00045	0.002735	-0.00147	-0.00119	-0.00081	0.000856	0.00045
-0.00112	0.003331	0.003499	-0.00116	0.000205	-0.0038	0.001046	-0.00044	0.00274	-0.00147	-0.00119	-0.0008	0.000859	0.000448
0.001064	0.008976	0.005661	-0.00215	0.000286	-0.00396	0.001066	-0.00042	0.002744	-0.00147	-0.00119	-0.0008	0.000861	0.000446
0.000919	0.008894	0.0074	-0.00302	0.000355	-0.0041	0.001084	-0.0004	0.002748	-0.00148	-0.00119	-0.0008	0.000864	0.000445
-0.00091	0.004528	0.008519	-0.00372	0.000411	-0.00422	0.001099	-0.00038	0.002752	-0.00148	-0.00119	-0.00079	0.000867	0.000443
0.00085	-0.00107	0.008907	-0.00421	0.000451	-0.00434	0.001112	-0.00037	0.002755	-0.00148	-0.00119	-0.00079	0.000869	0.000441
-0.00085	-0.00539	0.008488	-0.00445	0.000471	-0.00445	0.001121	-0.00034	0.002757	-0.00148	-0.00119	-0.00078	0.000872	0.00044
0.000964	-0.00702	0.007235	-0.00444	0.000469	-0.00454	0.001127	-0.00032	0.002759	-0.00148	-0.00119	-0.00078	0.000875	0.000438
0.000689	-0.00575	0.005178	-0.00424	0.000449	-0.00461	0.001129	-0.0003	0.00276	-0.00148	-0.00119	-0.00078	0.000877	0.000436
-0.00067	-0.00256	0.002529	-0.00386	0.000411	-0.00467	0.001129	-0.00028	0.002761	-0.00148	-0.00119	-0.00077	0.00088	0.000435
-0.00183	0.001187	-0.00041	-0.00333	0.000359	-0.00472	0.001125	-0.00025	0.002761	-0.00148	-0.00119	-0.00077	0.000882	0.000433
-0.00067	0.004214	-0.00331	-0.0027	0.000295	-0.00476	0.001117	-0.00023	0.002761	-0.00149	-0.00119	-0.00076	0.000885	0.000431
0.002562	0.005462	-0.00588	-0.00198	0.00022	-0.00478	0.001106	-0.0002	0.00276	-0.00149	-0.00119	-0.00076	0.000888	0.00043
0.002485	0.00432	-0.0079	-0.00122	0.000138	-0.00479	0.001091	-0.00018	0.002759	-0.00149	-0.00119	-0.00076	0.00089	0.000428
0.000726	0.001612	-0.00934	-0.00044	5.00E-05	-0.00478	0.001073	-0.00015	0.002757	-0.00149	-0.00119	-0.00075	0.000893	0.000426
-0.00038	-0.00149	-0.01022	0.00032	-4.08E-05	-0.00476	0.001051	-0.00012	0.002755	-0.00149	-0.00119	-0.00075	0.000895	0.000425
-0.00359	-0.00379	-0.01056	0.001036	-0.00013	-0.00472	0.001026	-9.36E-05	0.002753	-0.00149	-0.00119	-0.00074	0.000898	0.000423
0.000728	-0.00438	-0.01042	0.001678	-0.00022	-0.00467	0.000997	-6.46E-05	0.00275	-0.00149	-0.0012	-0.00074	0.000901	0.000421
0.001727	-0.00336	-0.00991	0.002238	-0.00031	-0.0046	0.000965	-3.50E-05	0.002746	-0.00149	-0.0012	-0.00074	0.000903	0.00042
0.003602	-0.00128	-0.00903	0.002711	-0.00039	-0.00453	0.000929	-5.01E-06	0.002743	-0.00149	-0.0012	-0.00073	0.000906	0.000418
0.002238	0.001231	-0.00772	0.003095	-0.00046	-0.00443	0.000891	2.54E-05	0.002738	-0.00149	-0.0012	-0.00073	0.000908	0.000416
-0.00101	0.003283	-0.00593	0.003386	-0.00053	-0.00432	0.000851	5.60E-05	0.002734	-0.00149	-0.0012	-0.00072	0.000911	0.000415
-0.00294	0.003687	-0.00364	0.003578	-0.00058	-0.0042	0.000807	8.70E-05	0.002729	-0.00149	-0.0012	-0.00072	0.000914	0.000413
-0.00184	0.001797	-0.00099	0.003669	-0.00062	-0.00406	0.000762	0.000118	0.002723	-0.00149	-0.0012	-0.00071	0.000916	0.000411
0.001228	-0.00106	0.001863	0.003656	-0.00064	-0.00391	0.000714	0.00015	0.002718	-0.00149	-0.0012	-0.00071	0.000919	0.00041
0.001935	-0.00301	0.004719	0.003537	-0.00065	-0.00374	0.000664	0.000181	0.002712	-0.00149	-0.0012	-0.00071	0.000921	0.000408
0.000382	-0.00329	0.007428	0.003312	-0.00064	-0.00356	0.000613	0.000213	0.002705	-0.0015	-0.0012	-0.0007	0.000924	0.000406
-0.00073	-0.00187	0.009898	0.002981	-0.00062	-0.00336	0.000559	0.000244	0.002698	-0.0015	-0.0012	-0.0007	0.000927	0.000404
-0.00109	0.000875	0.011725	0.002544	-0.00059	-0.00315	0.000504	0.000276	0.002691	-0.0015	-0.0012	-0.00069	0.000929	0.000403
0.000929	0.00305	0.012421	0.002003	-0.00055	-0.00292	0.000448	0.000307	0.002684	-0.0015	-0.00119	-0.00069	0.000932	0.000401
0.000157	0.002684	0.011601	0.001362	-0.00051	-0.00269	0.00039	0.000338	0.002676	-0.0015	-0.00119	-0.00069	0.000934	0.000399
-0.0008	0.000321	0.00934	0.00065	-0.00045	-0.00244	0.000331	0.000369	0.002668	-0.0015	-0.00119	-0.00068	0.000937	0.000398
0.000795	-0.00244	0.00598	-0.0001	-0.00038	-0.00219	0.000272	0.0004	0.00266	-0.0015	-0.00119	-0.00068	0.000939	0.000396
-0.00082	-0.00283	0.001901	-0.00085	-0.00031	-0.00193	0.000212	0.000431	0.002652	-0.0015	-0.00119	-0.00067	0.000942	0.000394
0.000838	-0.00141	-0.00249	-0.00158	-0.00024	-0.00166	0.000151	0.000461	0.002643	-0.0015	-0.00119	-0.00067	0.000944	0.000392
0.000741	0.000199	-0.00673	-0.00224	-0.00015	-0.00138	8.96E-05	0.00049	0.002634	-0.0015	-0.00119	-0.00067	0.000947	0.000391
-0.00064	0.001703	-0.01028	-0.0028	-6.64E-05	-0.0011	2.81E-05	0.00052	0.002625	-0.0015	-0.00119	-0.00066	0.00095	0.000389
-0.00083	0.00282	-0.01265	-0.00324	2.37E-05	-0.00081	-3.34E-05	0.000549	0.002615	-0.0015	-0.00119	-0.00066	0.000952	0.000387
0.000773	0.002874	-0.01336	-0.00351	0.000116	-0.00052	-9.48E-05	0.000577	0.002605	-0.0015	-0.00119	-0.00065	0.000955	0.000386
0.000742	0.001202	-0.01223	-0.00359	0.000211	-0.00023	-0.00016	0.000604	0.002595	-0.0015	-0.00119	-0.00065	0.000957	0.000384
-0.00044	-0.0014	-0.0097	-0.0035	0.000308	5.58E-05	-0.00022	0.000631	0.002585	-0.00149	-0.00119	-0.00065	0.00096	0.000382
-0.00051	-0.00315	-0.00633	-0.00326	0.000407	0.000346	-0.00028	0.000657	0.002575	-0.00149	-0.00119	-0.00064	0.000962	0.00038
0.000418	-0.0029	-0.00261	-0.00289	0.000506	0.000635	-0.00034	0.000683	0.002565	-0.00149	-0.00119	-0.00064	0.000965	0.000379

-0.00036	-0.00214	0.001184	-0.00243	0.000604	0.000921	-0.00039	0.000707	0.002554	-0.00149	-0.00119	-0.00063	0.000967	0.000377
0.000356	-0.00138	0.004839	-0.00188	0.000701	0.001204	-0.00045	0.000731	0.002543	-0.00149	-0.00119	-0.00063	0.00097	0.000375
-0.00042	0.000568	0.008144	-0.00129	0.000797	0.001483	-0.00051	0.000754	0.002532	-0.00149	-0.00119	-0.00062	0.000972	0.000373
0.000131	0.002541	0.010884	-0.00066	0.000889	0.001755	-0.00056	0.000776	0.002521	-0.00149	-0.00119	-0.00062	0.000975	0.000372
0.000291	0.003954	0.012846	-2.45E-05	0.000978	0.002021	-0.00062	0.000796	0.00251	-0.00149	-0.00119	-0.00062	0.000977	0.00037
0.000743	0.004534	0.01385	0.000592	0.001062	0.00228	-0.00067	0.000816	0.002499	-0.00149	-0.00119	-0.00061	0.00098	0.000368
0.001371	0.003927	0.01388	0.001167	0.001141	0.002529	-0.00072	0.000834	0.002487	-0.00149	-0.00119	-0.00061	0.000982	0.000366
-3.83E-05	0.002081	0.013081	0.001681	0.001214	0.002768	-0.00076	0.000852	0.002476	-0.00149	-0.00119	-0.0006	0.000985	0.000365
-0.001	-0.00049	0.011618	0.002134	0.00128	0.002997	-0.00081	0.000868	0.002465	-0.00149	-0.00119	-0.0006	0.000987	0.000363
-0.00201	-0.00314	0.009651	0.002529	0.001338	0.003213	-0.00085	0.000882	0.002453	-0.00149	-0.00119	-0.0006	0.00099	0.000361
-0.00307	-0.00523	0.007343	0.002869	0.001387	0.003417	-0.00089	0.000896	0.002441	-0.00149	-0.00119	-0.00059	0.000992	0.000359
-0.00224	-0.0063	0.004853	0.003157	0.001427	0.003606	-0.00093	0.000907	0.00243	-0.00149	-0.00119	-0.00059	0.000995	0.000358
-0.00179	-0.00659	0.002345	0.003397	0.001457	0.00378	-0.00097	0.000918	0.002418	-0.00149	-0.00119	-0.00058	0.000997	0.000356
0.001359	-0.00648	-3.25E-05	0.003593	0.001475	0.003938	-0.001	0.000927	0.002406	-0.00149	-0.00119	-0.00058	0.001	0.000354
0.004891	-0.0062	-0.00218	0.003747	0.001481	0.004078	-0.00103	0.000934	0.002395	-0.00149	-0.00119	-0.00058	0.001002	0.000352
0.00548	-0.00592	-0.00408	0.003864	0.001475	0.0042	-0.00105	0.00094	0.002383	-0.00148	-0.00119	-0.00057	0.001005	0.000351
0.003229	-0.00585	-0.00571	0.003946	0.001455	0.004303	-0.00107	0.000944	0.002371	-0.00148	-0.00119	-0.00057	0.001007	0.000349
0.001696	-0.00585	-0.00711	0.003997	0.00142	0.004385	-0.00109	0.000946	0.00236	-0.00148	-0.00119	-0.00056	0.00101	0.000347
-0.00147	-0.00568	-0.00831	0.00402	0.001369	0.004447	-0.0011	0.000947	0.002348	-0.00148	-0.00119	-0.00056	0.001012	0.000345
-0.00473	-0.0051	-0.00935	0.004018	0.0013	0.004488	-0.00111	0.000946	0.002337	-0.00148	-0.00119	-0.00055	0.001014	0.000343
-0.00738	-0.00388	-0.01027	0.003993	0.001214	0.004509	-0.00112	0.000942	0.002325	-0.00148	-0.00119	-0.00055	0.001017	0.000342
-0.00628	-0.00189	-0.01105	0.003943	0.001112	0.004511	-0.00112	0.000938	0.002313	-0.00148	-0.00119	-0.00055	0.001019	0.00034
-0.00315	0.000647	-0.01171	0.003868	0.000995	0.004493	-0.00112	0.000931	0.002302	-0.00148	-0.00119	-0.00054	0.001022	0.000338
0.000582	0.003424	-0.01223	0.003769	0.000865	0.004458	-0.00111	0.000923	0.00229	-0.00148	-0.00119	-0.00054	0.001024	0.000336
0.004401	0.006139	-0.01263	0.003645	0.000722	0.004404	-0.0011	0.000912	0.002279	-0.00148	-0.00119	-0.00053	0.001027	0.000334
0.008097	0.008489	-0.0129	0.003495	0.000569	0.004335	-0.00109	0.000901	0.002267	-0.00148	-0.00119	-0.00053	0.001029	0.000333
0.00183	0.010216	-0.01303	0.003319	0.000406	0.004249	-0.00107	0.000887	0.002256	-0.00147	-0.00119	-0.00053	0.001031	0.000331
-0.00199	0.011249	-0.01303	0.003116	0.000236	0.004148	-0.00105	0.000872	0.002244	-0.00147	-0.00119	-0.00052	0.001034	0.000329
-0.00713	0.011565	-0.01289	0.002886	5.88E-05	0.004032	-0.00102	0.000856	0.002233	-0.00147	-0.00119	-0.00052	0.001036	0.000327
-0.00758	0.011186	-0.01261	0.002624	-0.00012	0.003902	-0.001	0.000837	0.002221	-0.00147	-0.00118	-0.00051	0.001039	0.000325
-0.00636	0.01024	-0.01216	0.002327	-0.00031	0.003759	-0.00097	0.000818	0.00221	-0.00147	-0.00118	-0.00051	0.001041	0.000324
-0.00266	0.00872	-0.01153	0.001997	-0.0005	0.003604	-0.00093	0.000797	0.002199	-0.00147	-0.00118	-0.00051	0.001044	0.000322
0.002039	0.006585	-0.01074	0.001637	-0.00069	0.003437	-0.0009	0.000775	0.002187	-0.00147	-0.00118	-0.0005	0.001046	0.00032
0.006167	0.003794	-0.00981	0.001253	-0.00088	0.003259	-0.00086	0.000751	0.002176	-0.00147	-0.00118	-0.0005	0.001048	0.000318
0.004295	0.000377	-0.00875	0.000847	-0.00106	0.003071	-0.00082	0.000726	0.002165	-0.00147	-0.00118	-0.00049	0.001051	0.000316
0.003967	-0.00335	-0.00758	0.000426	-0.00125	0.002873	-0.00077	0.0007	0.002154	-0.00146	-0.00118	-0.00049	0.001053	0.000315
0.001743	-0.00698	-0.00631	-6.38E-06	-0.00142	0.002666	-0.00073	0.000673	0.002143	-0.00146	-0.00118	-0.00049	0.001056	0.000313
-0.00072	-0.01014	-0.00498	-0.00045	-0.0016	0.002451	-0.00068	0.000644	0.002132	-0.00146	-0.00118	-0.00048	0.001058	0.000311
-0.0037	-0.01243	-0.00359	-0.00089	-0.00176	0.002228	-0.00063	0.000615	0.002121	-0.00146	-0.00118	-0.00048	0.00106	0.000309
-0.00028	-0.01352	-0.00216	-0.00133	-0.00192	0.001999	-0.00058	0.000585	0.00211	-0.00146	-0.00118	-0.00047	0.001063	0.000307
0.001022	-0.01332	-0.00071	-0.00176	-0.00207	0.001763	-0.00052	0.000553	0.002099	-0.00146	-0.00118	-0.00047	0.001065	0.000306
0.002228	-0.01179	0.000692	-0.00218	-0.0022	0.001522	-0.00047	0.000521	0.002088	-0.00146	-0.00118	-0.00046	0.001067	0.000304
0.001489	-0.00899	0.002041	-0.00259	-0.00233	0.001277	-0.00041	0.000487	0.002077	-0.00146	-0.00118	-0.00046	0.00107	0.000302
0.000179	-0.00538	0.00332	-0.00298	-0.00243	0.001027	-0.00035	0.000453	0.002066	-0.00146	-0.00118	-0.00046	0.001072	0.0003
-0.0007	-0.00154	0.004517	-0.00334	-0.00253	0.000775	-0.00029	0.000418	0.002055	-0.00145	-0.00118	-0.00045	0.001074	0.000298
-0.00075	0.002028	0.005619	-0.00367	-0.0026	0.00052	-0.00023	0.000383	0.002045	-0.00145	-0.00118	-0.00045	0.001077	0.000296
-0.00026	0.005003	0.006614	-0.00397	-0.00266	0.000263	-0.00017	0.000346	0.002034	-0.00145	-0.00118	-0.00044	0.001079	0.000295
0.00036	0.00731	0.007488	-0.00423	-0.0027	4.95E-06	-0.00011	0.000309	0.002023	-0.00145	-0.00118	-0.00044	0.001082	0.000293
-0.00027	0.00899	0.00823	-0.00444	-0.00271	-0.00025	-4.87E-05	0.000272	0.002013	-0.00145	-0.00118	-0.00044	0.001084	0.000291
0.000229	0.010237	0.008827	-0.00461	-0.00271	-0.00051	1.41E-05	0.000234	0.002003	-0.00145	-0.00117	-0.00043	0.001086	0.000289
-0.00023	0.011808	0.009266	-0.00473	-0.00267	-0.00077	7.72E-05	0.000195	0.001992	-0.00145	-0.00117	-0.00043	0.001089	0.000287
0.000262	0.01322	0.009536	-0.00479	-0.00262	-0.00102	0.00014	0.000156	0.001982	-0.00145	-0.00117	-0.00042	0.001091	0.000285
0.000223	0.012502	0.009628	-0.0048	-0.00254	-0.00128	0.000204	0.000116	0.001971	-0.00144	-0.00117	-0.00042	0.001093	0.000283
-0.00037	0.009147	0.009552	-0.00474	-0.00243	-0.00152	0.000267	7.64E-05	0.001961	-0.00144	-0.00117	-0.00042	0.001096	0.000282
0.000439	0.004662	0.009328	-0.00461	-0.00229	-0.00177	0.00033	3.62E-05	0.001951	-0.00144	-0.00117	-0.00041	0.001098	0.00028
-0.00046	0.000901	0.008978	-0.00444	-0.00213	-0.00201	0.000393	-4.32E-06	0.001941	-0.00144	-0.00117	-0.00041	0.0011	0.000278
-0.00063	-0.00254	0.008524	-0.00421	-0.00195	-0.00224	0.000455	-4.51E-05	0.001931	-0.00144	-0.00117	-0.0004	0.001102	0.000276
0.000457	-0.00591	0.00799	-0.00393	-0.00176	-0.00247	0.000517	-8.60E-05	0.001921	-0.00144	-0.00117	-0.0004	0.001105	0.000274
0.000877	-0.00883	0.007399	-0.00361	-0.00154	-0.00269	0.000578	-0.00013	0.001911	-0.00144	-0.00117	-0.00039	0.001107	0.000272
0.00073	-0.0108	0.006775	-0.00325	-0.00131	-0.0029	0.000638	-0.00017	0.001901	-0.00144	-0.00117	-0.00039	0.001109	0.00027
0.000553	-0.01135	0.00614	-0.00286	-0.00107	-0.0031	0.000697	-0.00021	0.001892	-0.00143	-0.00117	-0.00039	0.001112	0.000269
-0.00105	-0.01002	0.005511	-0.00244	-0.00081	-0.00329	0.000755	-0.00025	0.001882	-0.00143	-0.00117	-0.00038	0.001114	0.000267
-0.00141	-0.0065	0.004879	-0.00199	-0.00055	-0.00347	0.000812	-0.00029	0.001872	-0.00143	-0.00117	-0.00038	0.001116	0.000265
5.60E-05	-0.00137	0.004226	-0.00153	-0.00028	-0.00365	0.000867	-0.00033	0.001863	-0.00143	-0.00117	-0.00037	0.001119	0.000263
0.001314	0.003992	0.003536	-0.00105	-4.54E-06	-0.00381	0.000921	-0.00037	0.001853	-0.00143	-0.00117	-0.00037	0.001121	0.000261
0.001708	0.007999	0.002793	-0.00056	0.000276	-0.00396	0.000973	-0.00041	0.001844	-0.00143	-0.00116	-0.00037	0.001123	0.000259
0.000231	0.009546	0.001979	-6.72E-05	0.000557	-0.00411	0.001023	-0.00045	0.001835	-0.00143	-0.00116	-0.00036	0.001125	0.000257
-0.00066	0.009352	0.001083	0.000427	0.000839	-0.00424	0.001071	-0.00049	0.001825	-0.00143	-0.00116	-0.00036	0.001128	0.000255
-0.0018	0.008566	0.000118	0.000917	0.00112	-0.00435	0.001117	-0.00053	0.001816	-0.00142	-0.00116	-0.00035	0.00113	0.000254
-0.00095	0.008062	-0.00089	0.001398	0.001396	-0.00446	0.001161	-0.00057	0.001807	-0.00142	-0.00116	-0.00035	0.001132	0.000252
0.001734	0.007677	-0.00189	0.001865	0.001667	-0.00455	0.001203	-0.00061	0.001798	-0.00142	-0.00116	-0.00035	0.001134	0.00025
-0.00073	0.006916	-0.00287	0.002314	0.001931	-0.00463	0.001242	-0.00065	0.001789	-0.00142	-0.00116	-0.00034	0.001137	0.000248
-0.00158	0.005003	-0.00378	0.00274	0.002185	-0.0047	0.001278	-0.00069	0.00178	-0.00142	-0.00116	-0.00034	0.001139	0.000246
-0.00058	0.001575	-0.00458	0.003138	0.002429	-0.00475	0.001312	-0.00073	0.001771	-0.00142	-0.00116	-0.00033	0.001141	0.000244
0.001396	-0.00182	-0.00525	0.003504	0.002659	-0.00478	0.001343	-0.00076	0.001763	-0.00142	-0.00116	-0.00033	0.001143	0.000242
0.001086	-0.00367	-0.00574	0.003832	0.002874	-0.0048	0.001371	-0.0008	0.001754	-0.00142	-0.00116	-0.00033	0.001146	0.00024
-0.00052	-0.00429	-0.00602	0.004117	0.003073	-0.00481	0.001396	-0.00084	0.001745	-0.00141	-0.00116	-0.00032	0.001148	0.000238
-0.00121	-0.00438	-0.00606	0.004354	0.003254	-0.0048	0.001418	-0.00087	0.001737	-0.00141	-0.00116	-0.00032	0.00115	0.000237
0.001076	-0.00439	-0.00584	0.004539	0.003414	-0.00477	0.001438	-0.00091	0.001728	-0.00141	-0.00115	-0.00031	0.001152	0.000235
0.001242	-0.00474	-0.00534	0.004673	0.003552	-0.00473	0.001454	-0.00094	0.00172	-0.00141	-0.00115	-0.00031	0.001154	0.000233
0.000794	-0.00531	-0.00456	0.004763	0.003666	-0.00467	0.001468	-0.00097	0.001712	-0.00141	-0.00115	-0.00031	0.001157	0.000231
-0.00143	-0.00504	-0.00352	0.004814	0.003753	-0.00459	0.001479	-0.001	0.001704	-0.00141	-0.00115	-0.0003	0.001159	0.000229
-0.00116	-0.00303	-0.00227	0.00483	0.003813	-0.0045	0.001487	-0.00104	0.001696	-0.00141	-0.00115	-0.0003	0.001161	0.000227
0.00175	-6.90E-05	-0.0009	0.004818	0.003844	-0.00438	0.001492	-0.00107	0.001688	-0.0014	-0.00115	-0.00029	0.001163	0.000225
-0.00053	0.002693	0.000495	0.004781	0.003843	-0.00425	0.001495	-0.0011	0.00168	-0.0014	-0.00115	-0.00029	0.001165	0.000223
-0.00216	0.004377	0.001836	0.004725	0.003811	-0.00411	0.001495	-0.00113	0.001672	-0.0014	-0.00115	-0.00028	0.001168	0.000221
-0.00184	0.004288	0.003033	0.004654	0.003748	-0.00394	0.001492	-0.00116	0.001664	-0.0014	-0.00115	-0.00028	0.00117	0.000219
-0.00026	0.002385	0.003994	0.00457	0.003653	-0.00376	0.001487	-0.00118	0.001657	-0.0014	-0.00115	-0.00028	0.001172	0.000217
0.002817	-0.00037	0.004649	0.004479	0.003528	-0.00356	0.001479	-0.00121	0.001649	-0.0014	-0.00115	-0.00027	0.001174	0.000215
0.002551	-0.00256	0.004937	0.004381	0.003375	-0.00335	0.001469	-0.00124	0.001642	-0.0014	-0.00115	-0.00027	0.001176	0.000213
0.000966	-0.0038	0.004797	0.00428	0.003196	-0.00312	0.001457	-0.00126	0.001634	-0.0014	-0.00114	-0.00026	0.001178	0.000212
-0.00105	-0.00401	0.004174	0.00417	0.002992	-0.00288	0.001442	-0.00129	0.001627	-0.00139	-0.00114	-0.00026	0.001181	0.00021
-0.00354	-0.00312	0.003052	0.004046	0.002765	-0.00262	0.001425	-0.00131	0.00162	-0.00139	-0.00114	-0.00026	0.001183	0.000208

-0.00207	-0.00131	0.00157	0.003903	0.002518	-0.00236	0.001405	-0.00133	0.001613	-0.00139	-0.00114	-0.00025	0.001185	0.000206
-0.00164	0.000929	-7.31E-05	0.003735	0.002253	-0.00208	0.001384	-0.00136	0.001606	-0.00139	-0.00114	-0.00025	0.001187	0.000204
0.000153	0.003016	-0.00167	0.003537	0.001971	-0.0018	0.00136	-0.00138	0.001599	-0.00139	-0.00114	-0.00024	0.001189	0.000202
0.001544	0.004389	-0.00303	0.003303	0.001675	-0.00151	0.001334	-0.0014	0.001592	-0.00139	-0.00114	-0.00024	0.001191	0.0002
0.003107	0.004519	-0.00398	0.003029	0.001366	-0.00121	0.001306	-0.00142	0.001585	-0.00139	-0.00114	-0.00024	0.001194	0.000198
0.003889	0.003059	-0.00445	0.002708	0.001048	-0.00091	0.001276	-0.00144	0.001579	-0.00138	-0.00114	-0.00023	0.001196	0.000196
0.001073	0.000311	-0.00446	0.002337	0.000721	-0.0006	0.001244	-0.00146	0.001572	-0.00138	-0.00114	-0.00023	0.001198	0.000194
-0.00136	-0.00275	-0.00408	0.001921	0.000388	-0.00029	0.00121	-0.00147	0.001566	-0.00138	-0.00114	-0.00022	0.0012	0.000192
-0.00366	-0.00501	-0.00338	0.001468	5.07E-05	2.42E-05	0.001174	-0.00149	0.001559	-0.00138	-0.00113	-0.00022	0.001202	0.00019
-0.00341	-0.00553	-0.00244	0.000988	-0.00029	0.000337	0.001136	-0.00151	0.001553	-0.00138	-0.00113	-0.00022	0.001204	0.000188
-0.00298	-0.00422	-0.00136	0.000491	-0.00063	0.000649	0.001097	-0.00152	0.001547	-0.00138	-0.00113	-0.00021	0.001206	0.000186
-0.00132	-0.00165	-0.00021	-1.31E-05	-0.00096	0.000959	0.001055	-0.00154	0.001541	-0.00138	-0.00113	-0.00021	0.001208	0.000184
-0.00061	0.001457	0.000936	-0.00051	-0.0013	0.001266	0.001012	-0.00155	0.001535	-0.00138	-0.00113	-0.0002	0.00121	0.000182
0.001036	0.004403	0.002011	-0.001	-0.00162	0.001569	0.000968	-0.00156	0.001529	-0.00137	-0.00113	-0.0002	0.001213	0.00018
0.002549	0.006477	0.002946	-0.00147	-0.00194	0.001867	0.000922	-0.00157	0.001524	-0.00137	-0.00113	-0.0002	0.001215	0.000178
0.002261	0.007161	0.003671	-0.00191	-0.00225	0.002158	0.000874	-0.00158	0.001518	-0.00137	-0.00113	-0.00019	0.001217	0.000176
0.001175	0.006718	0.004135	-0.0023	-0.00255	0.002442	0.000825	-0.00159	0.001513	-0.00137	-0.00113	-0.00019	0.001219	0.000174
-0.00122	0.005634	0.004351	-0.00265	-0.00283	0.002716	0.000774	-0.0016	0.001507	-0.00137	-0.00113	-0.00018	0.001221	0.000172
-0.00166	0.004402	0.004352	-0.00294	-0.00309	0.002981	0.000722	-0.00161	0.001502	-0.00137	-0.00112	-0.00018	0.001223	0.000171
-0.0005	0.00342	0.004172	-0.0032	-0.00334	0.003235	0.000669	-0.00162	0.001497	-0.00137	-0.00112	-0.00018	0.001225	0.000169
0.000284	0.002698	0.003848	-0.0034	-0.00357	0.003476	0.000614	-0.00163	0.001492	-0.00136	-0.00112	-0.00017	0.001227	0.000167
0.001132	0.002176	0.003414	-0.00356	-0.00377	0.003704	0.000558	-0.00163	0.001487	-0.00136	-0.00112	-0.00017	0.001229	0.000165
-0.001	0.001295	0.002908	-0.00368	-0.00395	0.003917	0.000501	-0.00164	0.001482	-0.00136	-0.00112	-0.00016	0.001231	0.000163
-0.00038	-0.00195	0.002364	-0.00376	-0.00411	0.004115	0.000442	-0.00164	0.001477	-0.00136	-0.00112	-0.00016	0.001233	0.000161
0.000826	-0.00634	0.001819	-0.00381	-0.00423	0.004298	0.000383	-0.00165	0.001473	-0.00136	-0.00112	-0.00016	0.001235	0.000159
0.000582	-0.00967	0.001309	-0.00381	-0.00433	0.004464	0.000322	-0.00165	0.001468	-0.00136	-0.00112	-0.00015	0.001237	0.000157
-0.00071	-0.00992	0.000863	-0.00378	-0.0044	0.004614	0.000261	-0.00165	0.001464	-0.00136	-0.00112	-0.00015	0.001239	0.000155
0.000653	-0.00622	0.000489	-0.00371	-0.00444	0.004749	0.000198	-0.00165	0.001459	-0.00135	-0.00112	-0.00014	0.001241	0.000153
-0.00059	-0.00144	0.000168	-0.00361	-0.00445	0.004868	0.000135	-0.00165	0.001455	-0.00135	-0.00111	-0.00014	0.001243	0.000151
0.000516	0.002857	-0.00012	-0.00348	-0.00443	0.004972	7.03E-05	-0.00165	0.001451	-0.00135	-0.00111	-0.00014	0.001245	0.000149
0.000372	0.005999	-0.0004	-0.00332	-0.00438	0.00506	5.13E-06	-0.00165	0.001447	-0.00135	-0.00111	-0.00013	0.001247	0.000147
-0.00037	0.007768	-0.0007	-0.00313	-0.0043	0.005134	-6.09E-05	-0.00164	0.001442	-0.00135	-0.00111	-0.00013	0.001249	0.000145
0.000311	0.008619	-0.00103	-0.0029	-0.00419	0.005194	-0.00013	-0.00164	0.001438	-0.00135	-0.00111	-0.00012	0.001251	0.000143
-0.00028	0.009832	-0.00141	-0.00264	-0.00406	0.005239	-0.0002	-0.00164	0.001434	-0.00135	-0.00111	-0.00012	0.001253	0.000141
0.000264	0.010569	-0.00188	-0.00235	-0.0039	0.00527	-0.00026	-0.00163	0.00143	-0.00134	-0.00111	-0.00012	0.001255	0.000139
0.000139	0.010284	-0.00244	-0.00203	-0.00372	0.005287	-0.00033	-0.00162	0.001426	-0.00134	-0.00111	-0.00011	0.001257	0.000137
-0.00019	0.008875	-0.00304	-0.00168	-0.00352	0.00529	-0.0004	-0.00162	0.001422	-0.00134	-0.00111	-0.00011	0.001259	0.000135
-0.00028	0.006339	-0.0036	-0.0013	-0.0033	0.00528	-0.00047	-0.00161	0.001419	-0.00134	-0.0011	-0.0001	0.001261	0.000133
-0.00037	0.002659	-0.00408	-0.00088	-0.00305	0.005256	-0.00054	-0.0016	0.001415	-0.00134	-0.0011	-0.0001	0.001263	0.000131
0.000407	-0.00178	-0.0044	-0.00043	-0.00279	0.005219	-0.00062	-0.00159	0.001411	-0.00134	-0.0011	-9.62E-05	0.001265	0.000129
0.000297	-0.0061	-0.00449	4.20E-05	-0.00251	0.005168	-0.00069	-0.00158	0.001407	-0.00134	-0.0011	-9.22E-05	0.001267	0.000126
-0.00046	-0.00897	-0.00428	0.00053	-0.00221	0.005105	-0.00076	-0.00156	0.001403	-0.00133	-0.0011	-8.83E-05	0.001269	0.000124
0.000483	-0.00945	-0.00369	0.001014	-0.00189	0.005028	-0.00083	-0.00155	0.001399	-0.00133	-0.0011	-8.43E-05	0.001271	0.000122
-0.0005	-0.00819	-0.00267	0.001476	-0.00156	0.004938	-0.0009	-0.00153	0.001396	-0.00133	-0.0011	-8.04E-05	0.001273	0.00012
0.000527	-0.00513	-0.00135	0.001895	-0.00122	0.004836	-0.00097	-0.00152	0.001392	-0.00133	-0.0011	-7.64E-05	0.001275	0.000118
-0.00056	-0.00055	0.000121	0.002252	-0.00087	0.004721	-0.00105	-0.0015	0.001388	-0.00133	-0.0011	-7.25E-05	0.001277	0.000116
-0.00022	0.00352	0.001573	0.00253	-0.0005	0.004593	-0.00112	-0.00148	0.001384	-0.00133	-0.00109	-6.85E-05	0.001279	0.000114
0.000651	0.006301	0.002854	0.002707	-0.00012	0.004452	-0.00119	-0.00147	0.001381	-0.00133	-0.00109	-6.46E-05	0.001281	0.000112
0.000568	0.007535	0.003806	0.002765	0.00026	0.004299	-0.00126	-0.00145	0.001377	-0.00132	-0.00109	-6.06E-05	0.001283	0.00011
8.77E-05	0.007337	0.004281	0.002686	0.000652	0.004134	-0.00132	-0.00143	0.001373	-0.00132	-0.00109	-5.67E-05	0.001285	0.000108
-0.00083	0.006235	0.004206	0.002458	0.001048	0.003957	-0.00139	-0.0014	0.00137	-0.00132	-0.00109	-5.27E-05	0.001287	0.000106
-0.00034	0.004645	0.003663	0.002105	0.001442	0.003767	-0.00146	-0.00138	0.001366	-0.00132	-0.00109	-4.88E-05	0.001289	0.000104
0.000187	0.002671	0.002765	0.001654	0.001829	0.003565	-0.00152	-0.00136	0.001362	-0.00132	-0.00109	-4.49E-05	0.001291	0.000102
0.000986	0.000343	0.001629	0.001134	0.002205	0.003352	-0.00159	-0.00133	0.001359	-0.00132	-0.00109	-4.10E-05	0.001292	1.00E-04
0.000728	-0.00217	0.000371	0.000573	0.002563	0.003126	-0.00165	-0.00131	0.001355	-0.00132	-0.00108	-3.70E-05	0.001294	9.79E-05
0.00061	-0.00405	-0.0009	-7.90E-07	0.0029	0.002889	-0.00171	-0.00128	0.001352	-0.00131	-0.00108	-3.31E-05	0.001296	9.59E-05
-0.00108	-0.00435	-0.00205	-0.00056	0.00321	0.00264	-0.00177	-0.00125	0.001348	-0.00131	-0.00108	-2.92E-05	0.001298	9.38E-05
0.00109	-0.00251	-0.00299	-0.00107	0.003489	0.00238	-0.00183	-0.00122	0.001345	-0.00131	-0.00108	-2.53E-05	0.0013	9.18E-05
0.000151	0.000337	-0.00359	-0.00151	0.00373	0.002108	-0.00188	-0.00119	0.001341	-0.00131	-0.00108	-2.13E-05	0.001302	8.97E-05
-0.00108	0.002579	-0.00375	-0.00185	0.00393	0.001825	-0.00194	-0.00116	0.001337	-0.00131	-0.00108	-1.74E-05	0.001304	8.76E-05
-0.00043	0.002915	-0.00334	-0.00207	0.004083	0.00153	-0.00199	-0.00113	0.001334	-0.00131	-0.00108	-1.35E-05	0.001306	8.56E-05
0.000706	0.001665	-0.00231	-0.00216	0.004184	0.001225	-0.00204	-0.00109	0.00133	-0.00131	-0.00108	-9.61E-06	0.001307	8.35E-05
0.00107	3.61E-05	-0.00089	-0.00215	0.004233	0.000911	-0.00208	-0.00106	0.001327	-0.0013	-0.00107	-5.71E-06	0.001309	8.14E-05
-9.22E-05	-0.00121	0.000612	-0.00203	0.004228	0.000587	-0.00213	-0.00102	0.001323	-0.0013	-0.00107	-1.81E-06	0.001311	7.94E-05
-0.0011	-0.00182	0.0019	-0.00182	0.004171	0.000255	-0.00217	-0.00099	0.00132	-0.0013	-0.00107	2.09E-06	0.001313	7.73E-05
-0.00056	-0.00172	0.002756	-0.00154	0.004065	-8.14E-05	-0.00221	-0.00095	0.001317	-0.0013	-0.00107	5.99E-06	0.001315	7.52E-05
-0.00028	-0.00114	0.003172	-0.00121	0.003911	-0.00042	-0.00224	-0.00091	0.001313	-0.0013	-0.00107	9.88E-06	0.001317	7.31E-05
0.000493	-0.00035	0.003187	-0.00083	0.003715	-0.00077	-0.00227	-0.00087	0.00131	-0.0013	-0.00107	1.38E-05	0.001319	7.10E-05
0.00131	0.000361	0.002846	-0.00044	0.003478	-0.00111	-0.0023	-0.00083	0.001306	-0.00129	-0.00107	1.77E-05	0.00132	6.90E-05
0.000614	0.00077	0.002207	-3.43E-05	0.003204	-0.00145	-0.00233	-0.00079	0.001303	-0.00129	-0.00107	2.15E-05	0.001322	6.69E-05
2.21E-05	0.000884	0.001387	0.000357	0.002895	-0.00179	-0.00235	-0.00074	0.001299	-0.00129	-0.00106	2.54E-05	0.001324	6.48E-05
-0.00064	0.000788	0.000485	0.000722	0.002554	-0.00212	-0.00237	-0.0007	0.001296	-0.00129	-0.00106	2.93E-05	0.001326	6.27E-05
-0.00119	0.000556	-0.00042	0.001046	0.002184	-0.00245	-0.00238	-0.00065	0.001293	-0.00129	-0.00106	3.32E-05	0.001328	6.06E-05
-0.00179	0.00026	-0.00126	0.001313	0.001787	-0.00277	-0.00239	-0.00061	0.001289	-0.00129	-0.00106	3.70E-05	0.001329	5.85E-05
-0.00205	-2.95E-05	-0.00195	0.001507	0.001366	-0.00308	-0.0024	-0.00056	0.001286	-0.00129	-0.00106	4.09E-05	0.001331	5.64E-05
-0.00117	-0.00026	-0.00243	0.001611	0.000925	-0.00338	-0.0024	-0.00051	0.001283	-0.00128	-0.00106	4.48E-05	0.001333	5.43E-05
-0.00031	-0.00045	-0.00261	0.00161	0.000468	-0.00367	-0.0024	-0.00046	0.001279	-0.00128	-0.00106	4.86E-05	0.001335	5.22E-05
0.001123	-0.00059	-0.00249	0.001487	2.43E-06	-0.00394	-0.00239	-0.00041	0.001276	-0.00128	-0.00105	5.25E-05	0.001337	5.01E-05
0.001986	-0.00067	-0.00207	0.001249	-0.00047	-0.00419	-0.00238	-0.00036	0.001273	-0.00128	-0.00105	5.63E-05	0.001338	4.80E-05
0.002984	-0.00064	-0.00144	0.000922	-0.00093	-0.00443	-0.00237	-0.00031	0.001269	-0.00128	-0.00105	6.02E-05	0.00134	4.59E-05
0.00288	-0.00044	-0.00066	0.000535	-0.00138	-0.00464	-0.00234	-0.00026	0.001266	-0.00128	-0.00105	6.40E-05	0.001342	4.38E-05
0.000888	-6.09E-05	0.000174	0.000118	-0.0018	-0.00484	-0.00232	-0.0002	0.001263	-0.00128	-0.00105	6.79E-05	0.001344	4.17E-05
-0.00079	0.000387	0.000972	-0.00029	-0.0022	-0.00501	-0.00228	-0.00015	0.001259	-0.00127	-0.00105	7.17E-05	0.001345	3.96E-05
-0.00289	0.000761	0.001646	-0.00067	-0.00257	-0.00515	-0.00225	-9.34E-05	0.001256	-0.00127	-0.00105	7.56E-05	0.001347	3.75E-05
-0.00408	0.00092	0.002105	-0.00098	-0.00289	-0.00527	-0.0022	-3.81E-05	0.001253	-0.00127	-0.00104	7.94E-05	0.001349	3.53E-05
-0.00323	0.000776	0.002268	-0.00119	-0.00316	-0.00536	-0.00215	1.79E-05	0.001249	-0.00127	-0.00104	8.32E-05	0.001351	3.32E-05
-0.00134	0.000399	0.002137	-0.00129	-0.00338	-0.00541	-0.0021	7.43E-05	0.001246	-0.00127	-0.00104	8.70E-05	0.001352	3.11E-05
0.000911	-0.0001	0.001768	-0.00129	-0.00353	-0.00544	-0.00204	0.000131	0.001243	-0.00127	-0.00104	9.09E-05	0.001354	2.90E-05
0.003274	-0.00062	0.001225	-0.00122	-0.00361	-0.00543	-0.00197	0.000188	0.00124	-0.00126	-0.00104	9.47E-05	0.001356	2.68E-05
0.005182	-0.00105	0.000569	-0.0011	-0.00361	-0.00539	-0.00189	0.000246	0.001236	-0.00126	-0.00104	9.85E-05	0.001358	2.47E-05
0.004976	-0.0013	-0.00014	-0.00092	-0.00356	-0.00531	-0.00181	0.000304	0.001233	-0.00126	-0.00104	0.000102	0.001359	2.26E-05
0.004163	-0.00141	-0.00083	-0.00071	-0.00345	-0.0052	-0.00173	0.000362	0.00123	-0.00126	-0.00103	0.000106	0.001361	2.05E-05
0.002849	-0.00142	-0.00144	-0.00046	-0.00328	-0.00505	-0.00164	0.000421	0.001227	-0.00126	-0.00103	0.00011	0.001363	1.83E-05

0.00114	-0.00138	-0.00191	-0.00019	-0.00307	-0.00487	-0.00154	0.00048	0.001223	-0.00126	-0.00103	0.000114	0.001364	1.62E-05
-0.00096	-0.00133	-0.00218	8.07E-05	-0.00281	-0.00466	-0.00144	0.000538	0.00122	-0.00126	-0.00103	0.000118	0.001366	1.40E-05
-0.00293	-0.0013	-0.00221	0.000332	-0.00252	-0.00443	-0.00134	0.000597	0.001217	-0.00125	-0.00103	0.000121	0.001368	1.19E-05
-0.00345	-0.00123	-0.00202	0.000558	-0.00219	-0.00417	-0.00123	0.000656	0.001214	-0.00125	-0.00103	0.000125	0.001369	9.76E-06
-0.00445	-0.00109	-0.00165	0.000752	-0.00184	-0.00389	-0.00112	0.000715	0.001211	-0.00125	-0.00103	0.000129	0.001371	7.62E-06
-0.0054	-0.00084	-0.00115	0.000913	-0.00147	-0.00359	-0.001	0.000774	0.001207	-0.00125	-0.00102	0.000133	0.001373	5.47E-06
-0.0067	-0.00042	-0.00056	0.001037	-0.00108	-0.00328	-0.00088	0.000833	0.001204	-0.00125	-0.00102	0.000136	0.001374	3.32E-06
-0.00659	0.00019	7.00E-05	0.00112	-0.00068	-0.00294	-0.00076	0.000892	0.001201	-0.00125	-0.00102	0.00014	0.001376	1.17E-06
-0.00503	0.000887	0.000703	0.001157	-0.00028	-0.00259	-0.00064	0.000951	0.001198	-0.00124	-0.00102	0.000144	0.001378	-9.85E-07
-0.00386	0.001557	0.001294	0.001147	0.000125	-0.00223	-0.00051	0.001009	0.001194	-0.00124	-0.00102	0.000148	0.001379	-3.14E-06
0.002575	0.00208	0.001798	0.001086	0.000523	-0.00186	-0.00039	0.001068	0.001191	-0.00124	-0.00102	0.000152	0.001381	-5.30E-06
0.005897	0.002336	0.002172	0.000972	0.00091	-0.00148	-0.00026	0.001126	0.001188	-0.00124	-0.00102	0.000155	0.001383	-7.46E-06
0.006788	0.002202	0.002373	0.000801	0.001279	-0.0011	-0.00012	0.001183	0.001185	-0.00124	-0.00101	0.000159	0.001384	-9.62E-06
0.006378	0.001598	0.002379	0.000577	0.001624	-0.00071	8.38E-06	0.00124	0.001182	-0.00124	-0.00101	0.000163	0.001386	-1.18E-05
0.005642	0.000652	0.002203	0.000312	0.00194	-0.00032	0.000142	0.001297	0.001178	-0.00124	-0.00101	0.000167	0.001388	-1.40E-05
0.005288	-0.00046	0.001873	2.22E-05	0.002221	6.82E-05	0.000275	0.001354	0.001175	-0.00123	-0.00101	0.00017	0.001389	-1.61E-05
0.004596	-0.00157	0.001419	-0.00027	0.002463	0.000456	0.000409	0.001409	0.001172	-0.00123	-0.00101	0.000174	0.001391	-1.83E-05
0.003865	-0.00251	0.000868	-0.00056	0.00266	0.000838	0.000543	0.001465	0.001169	-0.00123	-0.00101	0.000178	0.001392	-2.05E-05
0.001048	-0.0031	0.000251	-0.00082	0.002806	0.001215	0.000677	0.001519	0.001166	-0.00123	-0.00101	0.000182	0.001394	-2.26E-05
-0.00131	-0.00316	-0.0004	-0.00104	0.002896	0.001583	0.00081	0.001574	0.001163	-0.00123	-0.001	0.000185	0.001396	-2.48E-05
-0.00567	-0.00255	-0.00106	-0.0012	0.002925	0.00194	0.000942	0.001627	0.001159	-0.00123	-0.001	0.000189	0.001397	-2.70E-05
-0.00561	-0.0012	-0.00165	-0.00129	0.002887	0.002285	0.001074	0.00168	0.001156	-0.00122	-0.001	0.000193	0.001399	-2.92E-05
-0.00239	0.000553	-0.00212	-0.00129	0.002777	0.002615	0.001203	0.001731	0.001153	-0.00122	-0.001	0.000196	0.0014	-3.14E-05
-0.00076	0.002276	-0.00243	-0.00119	0.002592	0.002929	0.001331	0.001782	0.00115	-0.00122	-0.001	0.0002	0.001402	-3.35E-05
0.003421	0.003551	-0.00251	-0.00097	0.002338	0.003226	0.001457	0.001833	0.001146	-0.00122	-0.001	0.000204	0.001403	-3.57E-05
0.004299	0.003952	-0.0023	-0.00066	0.002026	0.003504	0.00158	0.001882	0.001143	-0.00122	-0.00099	0.000208	0.001405	-3.79E-05
0.0008	0.0032	-0.00176	-0.00029	0.001668	0.003764	0.001701	0.00193	0.00114	-0.00122	-0.00099	0.000211	0.001407	-4.01E-05
-0.00094	0.001586	-0.00097	0.000115	0.001276	0.004003	0.001819	0.001978	0.001137	-0.00121	-0.00099	0.000215	0.001408	-4.23E-05
-0.00162	-0.00045	-5.32E-05	0.000526	0.000861	0.004221	0.001934	0.002024	0.001134	-0.00121	-0.00099	0.000219	0.00141	-4.45E-05
-0.00236	-0.00248	0.000862	0.00091	0.000437	0.004418	0.002045	0.002069	0.00113	-0.00121	-0.00099	0.000222	0.001411	-4.67E-05
-0.00263	-0.00405	0.001657	0.001235	1.42E-05	0.004591	0.002152	0.002113	0.001127	-0.00121	-0.00099	0.000226	0.001413	-4.89E-05
-0.00062	-0.0048	0.002208	0.001473	-0.0004	0.004741	0.002256	0.002156	0.001124	-0.00121	-0.00098	0.00023	0.001414	-5.11E-05
0.000357	-0.00467	0.002429	0.001592	-0.00078	0.004866	0.002355	0.002198	0.001121	-0.00121	-0.00098	0.000233	0.001416	-5.33E-05
0.001635	-0.00382	0.002375	0.001569	-0.00113	0.004966	0.00245	0.002239	0.001118	-0.00121	-0.00098	0.000237	0.001417	-5.55E-05
0.000896	-0.00245	0.00212	0.001404	-0.00145	0.00504	0.002539	0.002278	0.001114	-0.0012	-0.00098	0.000241	0.001419	-5.77E-05
-0.00037	-0.00079	0.001712	0.00112	-0.00173	0.005088	0.002624	0.002316	0.001111	-0.0012	-0.00098	0.000244	0.00142	-5.99E-05
-0.0008	0.000932	0.001198	0.000746	-0.00197	0.005107	0.002702	0.002352	0.001108	-0.0012	-0.00098	0.000248	0.001422	-6.22E-05
-0.00048	0.002629	0.000621	0.00031	-0.00216	0.005098	0.002776	0.002387	0.001105	-0.0012	-0.00098	0.000252	0.001423	-6.44E-05
-0.00022	0.004131	2.75E-05	-0.00016	-0.0023	0.005059	0.002843	0.002421	0.001101	-0.0012	-0.00097	0.000255	0.001425	-6.66E-05
0.000287	0.005239	-0.00054	-0.00063	-0.0024	0.00499	0.002904	0.002453	0.001098	-0.0012	-0.00097	0.000259	0.001426	-6.88E-05
-0.00022	0.005632	-0.00105	-0.00108	-0.00244	0.004889	0.002959	0.002483	0.001095	-0.00119	-0.00097	0.000263	0.001428	-7.10E-05
0.000197	0.004867	-0.00148	-0.00148	-0.00243	0.004755	0.003008	0.002512	0.001092	-0.00119	-0.00097	0.000266	0.001429	-7.33E-05
-0.00023	0.003517	-0.00181	-0.00179	-0.00236	0.004587	0.003051	0.002539	0.001088	-0.00119	-0.00097	0.00027	0.001431	-7.55E-05
0.000134	0.001432	-0.00202	-0.002	-0.00223	0.004387	0.003088	0.002565	0.001085	-0.00119	-0.00097	0.000273	0.001432	-7.77E-05
0.000367	-0.00115	-0.00206	-0.00207	-0.00204	0.004153	0.00312	0.002589	0.001082	-0.00119	-0.00096	0.000277	0.001434	-7.99E-05
0.000329	-0.00394	-0.00188	-0.00199	-0.0018	0.00389	0.003146	0.002611	0.001078	-0.00119	-0.00096	0.000281	0.001435	-8.22E-05
-0.00053	-0.00544	-0.00141	-0.00178	-0.00152	0.003601	0.003168	0.002631	0.001075	-0.00118	-0.00096	0.000284	0.001436	-8.44E-05
0.000582	-0.00425	-0.00061	-0.00145	-0.0012	0.003288	0.003183	0.002649	0.001072	-0.00118	-0.00096	0.000288	0.001438	-8.66E-05
-0.00034	-0.00097	0.000342	-0.00104	-0.00086	0.002955	0.003194	0.002665	0.001068	-0.00118	-0.00096	0.000292	0.001439	-8.89E-05
-0.00062	0.002613	0.001215	-0.00055	-0.0005	0.002605	0.0032	0.00268	0.001065	-0.00118	-0.00096	0.000295	0.001441	-9.11E-05
0.000609	0.004854	0.001776	-1.82E-05	-0.00013	0.002241	0.003201	0.002692	0.001062	-0.00118	-0.00095	0.000299	0.001442	-9.34E-05
-0.00058	0.004697	0.001843	0.000543	0.000243	0.001867	0.003197	0.002703	0.001058	-0.00118	-0.00095	0.000302	0.001444	-9.56E-05
-0.00049	0.003026	0.001448	0.001107	0.000604	0.001486	0.003189	0.002711	0.001055	-0.00117	-0.00095	0.000306	0.001445	-9.79E-05
0.000266	0.00096	0.000744	0.001639	0.000946	0.001101	0.003176	0.002718	0.001052	-0.00117	-0.00095	0.000309	0.001446	-0.0001
0.000339	-0.00099	-0.0001	0.002099	0.001261	0.000715	0.003159	0.002722	0.001048	-0.00117	-0.00095	0.000313	0.001448	-0.0001
0.00045	-0.00245	-0.00092	0.002448	0.001541	0.000331	0.003137	0.002724	0.001045	-0.00117	-0.00095	0.000317	0.001449	-0.0001
-0.00044	-0.00312	-0.00153	0.002642	0.001775	-4.65E-05	0.003111	0.002725	0.001042	-0.00117	-0.00094	0.00032	0.001451	-0.00011
0.000365	-0.00315	-0.00178	0.002638	0.001958	-0.00042	0.003081	0.002724	0.001038	-0.00117	-0.00094	0.000324	0.001452	-0.00011
0.000466	-0.00259	-0.00153	0.002405	0.002086	-0.00077	0.003046	0.00272	0.001035	-0.00117	-0.00094	0.000327	0.001453	-0.00011
0.000102	-0.0016	-0.00091	0.001977	0.002161	-0.00112	0.003007	0.002715	0.001031	-0.00116	-0.00094	0.000331	0.001455	-0.00011
-0.00018	-0.00041	-8.38E-05	0.001405	0.002185	-0.00145	0.002964	0.002708	0.001028	-0.00116	-0.00094	0.000334	0.001456	-0.00012
-0.00054	0.000764	0.000775	0.000737	0.002162	-0.00176	0.002917	0.0027	0.001024	-0.00116	-0.00094	0.000338	0.001457	-0.00012
-7.21E-05	0.00162	0.001496	2.55E-05	0.002096	-0.00205	0.002866	0.002689	0.001021	-0.00116	-0.00093	0.000341	0.001459	-0.00012
0.000561	0.001623	0.001908	-0.00068	0.001992	-0.00233	0.002811	0.002677	0.001018	-0.00116	-0.00093	0.000345	0.00146	-0.00012
-0.00041	0.000493	0.001864	-0.00132	0.001855	-0.00259	0.002752	0.002663	0.001014	-0.00116	-0.00093	0.000348	0.001461	-0.00013
-0.00052	-0.00078	0.001345	-0.0019	0.001688	-0.00283	0.002689	0.002648	0.001011	-0.00115	-0.00093	0.000352	0.001463	-0.00013
-0.00019	-0.00108	0.000364	-0.00238	0.001496	-0.00306	0.002623	0.002631	0.001007	-0.00115	-0.00093	0.000356	0.001464	-0.00013
0.000431	-0.0002	-0.00095	-0.00278	0.001283	-0.00326	0.002552	0.002612	0.001004	-0.00115	-0.00093	0.000359	0.001465	-0.00013
-0.00038	0.000858	-0.00202	-0.00308	0.001055	-0.00346	0.002478	0.002592	0.001	-0.00115	-0.00092	0.000363	0.001467	-0.00013
0.00033	0.000299	-0.00228	-0.00327	0.000815	-0.00363	0.002401	0.00257	0.000996	-0.00115	-0.00092	0.000366	0.001468	-0.00014
-6.72E-05	-0.00062	-0.00181	-0.00335	0.000568	-0.00379	0.002319	0.002547	0.000993	-0.00115	-0.00092	0.00037	0.001469	-0.00014
-0.00026	-0.00076	-0.0008	-0.00332	0.000318	-0.00392	0.002235	0.002522	0.000989	-0.00114	-0.00092	0.000373	0.00147	-0.00014
0.000207	3.10E-05	0.000441	-0.0032	6.90E-05	-0.00404	0.002146	0.002496	0.000986	-0.00114	-0.00092	0.000376	0.001472	-0.00014
0.000243	0.000671	0.00165	-0.00299	-0.00018	-0.00415	0.002055	0.002468	0.000982	-0.00114	-0.00091	0.00038	0.001473	-0.00015
-0.00025	0.000933	0.002549	-0.0027	-0.00042	-0.00423	0.00196	0.002439	0.000978	-0.00114	-0.00091	0.000383	0.001474	-0.00015
0.000269	0.000968	0.002871	-0.00233	-0.00065	-0.0043	0.001861	0.002409	0.000975	-0.00114	-0.00091	0.000387	0.001476	-0.00015
9.14E-05	0.00091	0.002469	-0.00191	-0.00087	-0.00435	0.00176	0.002377	0.000971	-0.00114	-0.00091	0.00039	0.001477	-0.00015
-0.00032	0.000654	0.0015	-0.00143	-0.00108	-0.00438	0.001655	0.002344	0.000967	-0.00113	-0.00091	0.000394	0.001478	-0.00015
0.000152	9.15E-05	0.000197	-0.0009	-0.00127	-0.0044	0.001547	0.00231	0.000964	-0.00113	-0.00091	0.000397	0.001479	-0.00016
0.000321	-0.00064	-0.00121	-0.00035	-0.00146	-0.00439	0.001436	0.002274	0.00096	-0.00113	-0.0009	0.000401	0.001481	-0.00016
0.000399	-0.00125	-0.00248	0.000224	-0.00162	-0.00437	0.001322	0.002237	0.000956	-0.00113	-0.0009	0.000404	0.001482	-0.00016
-0.00042	-0.00157	-0.00339	0.000808	-0.00178	-0.00433	0.001206	0.0022	0.000953	-0.00113	-0.0009	0.000408	0.001483	-0.00016
-0.00014	-0.00179	-0.00371	0.001391	-0.00191	-0.00427	0.001086	0.00216	0.000949	-0.00113	-0.0009	0.000411	0.001484	-0.00017
0.000476	-0.00168	-0.00328	0.001962	-0.00203	-0.00419	0.000964	0.00212	0.000945	-0.00112	-0.0009	0.000414	0.001485	-0.00017
-0.00051	-0.00067	-0.00225	0.002508	-0.00212	-0.0041	0.000839	0.002079	0.000941	-0.00112	-0.0009	0.000418	0.001487	-0.00017
0.000543	0.001218	-0.00087	0.003011	-0.0022	-0.00399	0.000711	0.002036	0.000938	-0.00112	-0.00089	0.000421	0.001488	-0.00017
-0.00059	0.002223	0.000646	0.003456	-0.00225	-0.00387	0.000582	0.001993	0.000934	-0.00112	-0.00089	0.000425	0.001489	-0.00018
0.00064	0.001707	0.002074	0.003826	-0.00228	-0.00373	0.00045	0.001949	0.00093	-0.00112	-0.00089	0.000428	0.00149	-0.00018
0.000512	0.000573	0.003285	0.004106	-0.00228	-0.00358	0.000317	0.001903	0.000926	-0.00112	-0.00089	0.000431	0.001491	-0.00018
-0.00032	-0.00071	0.004189	0.00428	-0.00225	-0.00341	0.000182	0.001857	0.000922	-0.00111	-0.00089	0.000435	0.001493	-0.00018
-0.00083	-0.00184	0.004709	0.00433	-0.0022	-0.00323	4.60E-05	0.00181	0.000919	-0.00111	-0.00088	0.000438	0.001494	-0.00018
-0.0005	-0.00254	0.004773	0.004242	-0.00211	-0.00304	-9.16E-05	0.001761	0.000915	-0.00111	-0.00088	0.000442	0.001495	-0.00019
0.000556	-0.00251	0.004299	0.004008	-0.00199	-0.00284	-0.00023	0.001712	0.000911	-0.00111	-0.00088	0.000445	0.001496	-0.00019

0.00103	-0.00161	0.003223	0.003644	-0.00185	-0.00263	-0.00037	0.001662	0.000907	-0.00111	-0.00088	0.000448	0.001497	-0.00019
2.41E-05	-2.34E-05	0.001695	0.003169	-0.00168	-0.00241	-0.00051	0.001612	0.000903	-0.00111	-0.00088	0.000452	0.001498	-0.00019
-0.00103	0.001576	-3.90E-05	0.002604	-0.0015	-0.00218	-0.00065	0.00156	0.000899	-0.0011	-0.00088	0.000455	0.0015	-0.0002
-0.00122	0.002516	-0.00174	0.001972	-0.00129	-0.00195	-0.00079	0.001508	0.000895	-0.0011	-0.00087	0.000458	0.001501	-0.0002
-0.00031	0.002576	-0.00321	0.001291	-0.00107	-0.00171	-0.00093	0.001455	0.000891	-0.0011	-0.00087	0.000462	0.001502	-0.0002
0.00133	0.001808	-0.00438	0.000584	-0.00083	-0.00146	-0.00107	0.001402	0.000887	-0.0011	-0.00087	0.000465	0.001503	-0.0002
0.0012	0.000398	-0.00519	-0.00013	-0.00058	-0.00121	-0.00121	0.001347	0.000883	-0.0011	-0.00087	0.000468	0.001504	-0.00021
-0.00016	-0.00114	-0.00557	-0.00083	-0.00033	-0.00096	-0.00135	0.001293	0.000879	-0.0011	-0.00087	0.000472	0.001505	-0.00021
-0.00148	-0.00223	-0.00548	-0.00149	-6.99E-05	-0.00071	-0.00148	0.001237	0.000875	-0.00109	-0.00086	0.000475	0.001506	-0.00021
-0.00088	-0.00241	-0.00488	-0.00211	0.000192	-0.00045	-0.00162	0.001181	0.000871	-0.00109	-0.00086	0.000478	0.001507	-0.00021
0.000113	-0.00186	-0.00384	-0.00269	0.000453	-0.0002	-0.00175	0.001124	0.000867	-0.00109	-0.00086	0.000482	0.001508	-0.00022
0.000491	-0.00085	-0.00246	-0.00321	0.000711	5.20E-05	-0.00189	0.001067	0.000863	-0.00109	-0.00086	0.000485	0.001509	-0.00022
0.001065	0.000317	-0.00089	-0.00369	0.000963	0.000303	-0.00202	0.00101	0.000859	-0.00109	-0.00086	0.000488	0.001511	-0.00022
0.001427	0.001377	0.000757	-0.00411	0.001207	0.00055	-0.00214	0.000952	0.000855	-0.00109	-0.00085	0.000492	0.001512	-0.00022
0.001777	0.002044	0.002355	-0.00446	0.001439	0.000793	-0.00227	0.000893	0.000851	-0.00108	-0.00085	0.000495	0.001513	-0.00022
0.000913	0.002119	0.003778	-0.00476	0.001657	0.001031	-0.00239	0.000834	0.000847	-0.00108	-0.00085	0.000498	0.001514	-0.00023
-0.00075	0.001721	0.004903	-0.005	0.001858	0.001263	-0.00251	0.000775	0.000843	-0.00108	-0.00085	0.000501	0.001515	-0.00023
-0.00145	0.001007	0.005638	-0.00517	0.002041	0.001488	-0.00263	0.000716	0.000839	-0.00108	-0.00085	0.000505	0.001516	-0.00023
-0.00206	3.97E-05	0.005982	-0.00527	0.002204	0.001705	-0.00274	0.000656	0.000835	-0.00108	-0.00085	0.000508	0.001517	-0.00023
-0.00026	-0.00105	0.005949	-0.0053	0.002347	0.001912	-0.00285	0.000596	0.000831	-0.00108	-0.00084	0.000511	0.001518	-0.00024
0.002231	-0.00181	0.005551	-0.00526	0.00247	0.00211	-0.00296	0.000535	0.000826	-0.00107	-0.00084	0.000514	0.001519	-0.00024
0.001946	-0.00184	0.004802	-0.00515	0.002575	0.002296	-0.00306	0.000475	0.000822	-0.00107	-0.00084	0.000518	0.00152	-0.00024
0.000695	-0.00123	0.003739	-0.00498	0.002662	0.002471	-0.00315	0.000414	0.000818	-0.00107	-0.00084	0.000521	0.001521	-0.00024
-0.0004	-0.00029	0.002444	-0.00474	0.002732	0.002632	-0.00325	0.000353	0.000814	-0.00107	-0.00084	0.000524	0.001522	-0.00025
-0.00225	0.000686	0.001028	-0.00443	0.002787	0.00278	-0.00333	0.000292	0.00081	-0.00107	-0.00083	0.000527	0.001523	-0.00025
-0.00273	0.001391	-0.00041	-0.00406	0.002827	0.002912	-0.00342	0.000231	0.000806	-0.00107	-0.00083	0.000531	0.001524	-0.00025
-0.00153	0.001639	-0.00178	-0.00364	0.002854	0.003029	-0.00349	0.00017	0.000801	-0.00106	-0.00083	0.000534	0.001525	-0.00025
-0.00019	0.001483	-0.00302	-0.00316	0.002867	0.00313	-0.00356	0.000109	0.000797	-0.00106	-0.00083	0.000537	0.001526	-0.00026
0.00141	0.001052	-0.00407	-0.00263	0.002867	0.003216	-0.00363	4.74E-05	0.000793	-0.00106	-0.00083	0.00054	0.001527	-0.00026
0.0031	0.000479	-0.00489	-0.00204	0.002853	0.003286	-0.00369	-1.38E-05	0.000789	-0.00106	-0.00082	0.000543	0.001528	-0.00026
0.002881	-0.00011	-0.00545	-0.00141	0.002827	0.003341	-0.00374	-7.50E-05	0.000784	-0.00106	-0.00082	0.000547	0.001529	-0.00026
0.001662	-0.00066	-0.00568	-0.00073	0.002787	0.003381	-0.00379	-0.00014	0.00078	-0.00105	-0.00082	0.00055	0.00153	-0.00027
-0.00015	-0.0011	-0.00556	5.31E-07	0.002734	0.003407	-0.00383	-0.0002	0.000776	-0.00105	-0.00082	0.000553	0.001531	-0.00027
-0.00213	-0.00138	-0.00502	0.000757	0.002667	0.003418	-0.00387	-0.00026	0.000771	-0.00105	-0.00082	0.000556	0.001532	-0.00027
-0.00336	-0.00139	-0.00407	0.001528	0.002587	0.003415	-0.0039	-0.00032	0.000767	-0.00105	-0.00082	0.000559	0.001533	-0.00027
-0.00301	-0.00103	-0.0028	0.002294	0.002494	0.003398	-0.00392	-0.00038	0.000763	-0.00105	-0.00081	0.000562	0.001533	-0.00027
-0.00165	-0.00042	-0.00134	0.00304	0.002387	0.003368	-0.00394	-0.00044	0.000758	-0.00105	-0.00081	0.000566	0.001534	-0.00028
-0.00069	0.000285	0.000191	0.003748	0.002266	0.003325	-0.00394	-0.0005	0.000754	-0.00104	-0.00081	0.000569	0.001535	-0.00028
0.001192	0.00091	0.001665	0.004401	0.002132	0.003271	-0.00395	-0.00056	0.000749	-0.00104	-0.00081	0.000572	0.001536	-0.00028
0.002886	0.001285	0.002956	0.004981	0.001985	0.003204	-0.00394	-0.00062	0.000745	-0.00104	-0.00081	0.000575	0.001537	-0.00028
0.003171	0.001226	0.003955	0.005472	0.001823	0.003127	-0.00394	-0.00068	0.000741	-0.00104	-0.0008	0.000578	0.001538	-0.00029
0.001423	0.000596	0.004625	0.005855	0.001648	0.00304	-0.00392	-0.00074	0.000736	-0.00104	-0.0008	0.000581	0.001539	-0.00029
-6.99E-05	-0.0003	0.004941	0.006115	0.00146	0.002942	-0.0039	-0.00079	0.000732	-0.00104	-0.0008	0.000584	0.00154	-0.00029
-0.00168	-0.00106	0.004877	0.006235	0.001258	0.002836	-0.00388	-0.00085	0.000727	-0.00103	-0.0008	0.000587	0.001541	-0.00029
-0.00266	-0.00126	0.004394	0.006212	0.001044	0.002721	-0.00385	-0.00091	0.000723	-0.00103	-0.0008	0.000591	0.001541	-0.0003
-0.001	-0.00066	0.003476	0.006054	0.000819	0.002598	-0.00381	-0.00097	0.000718	-0.00103	-0.00079	0.000594	0.001542	-0.0003
0.000204	0.000346	0.002242	0.005769	0.000585	0.002467	-0.00377	-0.00102	0.000714	-0.00103	-0.00079	0.000597	0.001543	-0.0003
0.002071	0.001176	0.000848	0.005367	0.000343	0.00233	-0.00373	-0.00108	0.000709	-0.00103	-0.00079	0.0006	0.001544	-0.0003
0.00071	0.001366	-0.00054	0.004856	9.44E-05	0.002186	-0.00368	-0.00114	0.000705	-0.00103	-0.00079	0.000603	0.001545	-0.00031
0.000416	0.000953	-0.00178	0.004246	-0.00016	0.002036	-0.00363	-0.00119	0.0007	-0.00102	-0.00079	0.000606	0.001546	-0.00031
-0.00014	0.000163	-0.00279	0.003546	-0.00042	0.001881	-0.00357	-0.00125	0.000696	-0.00102	-0.00078	0.000609	0.001546	-0.00031
-0.00116	-0.00076	-0.00353	0.002764	-0.00067	0.001722	-0.00351	-0.0013	0.000691	-0.00102	-0.00078	0.000612	0.001547	-0.00031
-0.00074	-0.00154	-0.00395	0.00191	-0.00093	0.001559	-0.00344	-0.00136	0.000687	-0.00102	-0.00078	0.000615	0.001548	-0.00032
0.000726	-0.00172	-0.004	0.000994	-0.00119	0.001392	-0.00337	-0.00141	0.000682	-0.00102	-0.00078	0.000618	0.001549	-0.00032
0.000303	-0.00083	-0.00371	2.52E-05	-0.00144	0.001222	-0.0033	-0.00147	0.000677	-0.00102	-0.00078	0.000621	0.00155	-0.00032
-0.00014	0.000632	-0.00314	-0.00097	-0.00169	0.00105	-0.00322	-0.00152	0.000673	-0.00101	-0.00077	0.000624	0.00155	-0.00032
-0.00027	0.001861	-0.00233	-0.00198	-0.00194	0.000877	-0.00314	-0.00157	0.000668	-0.00101	-0.00077	0.000627	0.001551	-0.00033
0.000194	0.002202	-0.00136	-0.00296	-0.00217	0.000702	-0.00305	-0.00163	0.000664	-0.00101	-0.00077	0.00063	0.001552	-0.00033
-0.00017	0.00148	-0.0003	-0.00389	-0.0024	0.000526	-0.00297	-0.00168	0.000659	-0.00101	-0.00077	0.000633	0.001553	-0.00033
0.000178	0.000571	0.00076	-0.00475	-0.00262	0.000351	-0.00288	-0.00173	0.000654	-0.00101	-0.00077	0.000636	0.001554	-0.00033
-0.0002	-0.00035	0.001734	-0.00551	-0.00283	0.000176	-0.00278	-0.00178	0.00065	-0.001	-0.00076	0.000639	0.001554	-0.00034
0.000232	-0.00165	0.002526	-0.00614	-0.00302	2.59E-06	-0.00269	-0.00183	0.000645	-0.001	-0.00076	0.000642	0.001555	-0.00034
0.000228	-0.00262	0.003045	-0.00661	-0.00319	-0.00017	-0.00259	-0.00188	0.00064	-0.001	-0.00076	0.000645	0.001556	-0.00034
6.29E-06	-0.00311	0.0032	-0.00689	-0.00336	-0.00034	-0.00249	-0.00193	0.000635	-0.001	-0.00076	0.000648	0.001557	-0.00034
-0.00027	-0.00273	0.00294	-0.00698	-0.0035	-0.00051	-0.00239	-0.00198	0.000631	-0.001	-0.00076	0.000651	0.001557	-0.00035
0.000276	-0.00121	0.002342	-0.0069	-0.00362	-0.00067	-0.00228	-0.00203	0.000626	-0.001	-0.00075	0.000654	0.001558	-0.00035
-0.00028	0.001039	0.001517	-0.00665	-0.00373	-0.00083	-0.00217	-0.00208	0.000621	-0.00099	-0.00075	0.000657	0.001559	-0.00035
1.38E-05	0.002999	0.000576	-0.00625	-0.00381	-0.00098	-0.00207	-0.00213	0.000616	-0.00099	-0.00075	0.00066	0.001559	-0.00035
0.000284	0.003813	-0.00037	-0.00572	-0.00388	-0.00113	-0.00196	-0.00218	0.000612	-0.00099	-0.00075	0.000663	0.00156	-0.00036
-0.00028	0.002983	-0.00122	-0.00509	-0.00393	-0.00128	-0.00184	-0.00223	0.000607	-0.00099	-0.00075	0.000666	0.001561	-0.00036
0.000152	0.001093	-0.00191	-0.00436	-0.00396	-0.00141	-0.00173	-0.00227	0.000602	-0.00099	-0.00074	0.000669	0.001561	-0.00036
0.000241	-0.00116	-0.00241	-0.00355	-0.00398	-0.00154	-0.00162	-0.00232	0.000597	-0.00099	-0.00074	0.000672	0.001562	-0.00036
-0.0002	-0.00321	-0.00265	-0.0027	-0.00399	-0.00167	-0.0015	-0.00237	0.000592	-0.00098	-0.00074	0.000675	0.001563	-0.00037
0.000158	-0.00427	-0.0026	-0.00181	-0.00398	-0.00178	-0.00138	-0.00241	0.000588	-0.00098	-0.00074	0.000677	0.001563	-0.00037
-0.00012	-0.00392	-0.00222	-0.00092	-0.00396	-0.00189	-0.00127	-0.00246	0.000583	-0.00098	-0.00074	0.00068	0.001564	-0.00037
9.09E-05	-0.0025	-0.00159	-2.85E-05	-0.00393	-0.00199	-0.00115	-0.0025	0.000578	-0.00098	-0.00073	0.000683	0.001565	-0.00037
-9.26E-05	-0.00075	-0.00079	0.000848	-0.00388	-0.00208	-0.00103	-0.00255	0.000573	-0.00098	-0.00073	0.000686	0.001565	-0.00038
0.000124	0.000747	6.61E-05	0.001697	-0.00383	-0.00216	-0.00091	-0.00259	0.000568	-0.00098	-0.00073	0.000689	0.001566	-0.00038
-0.00018	0.002097	0.000903	0.002502	-0.00376	-0.00223	-0.00079	-0.00264	0.000563	-0.00097	-0.00073	0.000692	0.001567	-0.00038
0.000214	0.003307	0.001624	0.003252	-0.00369	-0.0023	-0.00067	-0.00268	0.000558	-0.00097	-0.00073	0.000695	0.001567	-0.00038
0.000352	0.004116	0.002138	0.003932	-0.00361	-0.00236	-0.00055	-0.00272	0.000553	-0.00097	-0.00072	0.000697	0.001568	-0.00039
-0.00013	0.004278	0.002354	0.004529	-0.00351	-0.00241	-0.00043	-0.00276	0.000548	-0.00097	-0.00072	0.0007	0.001568	-0.00039
-0.00057	0.003817	0.002207	0.005032	-0.00341	-0.00245	-0.00031	-0.00281	0.000543	-0.00097	-0.00072	0.000703	0.001569	-0.00039
-0.00028	0.002796	0.001758	0.005446	-0.0033	-0.00248	-0.0002	-0.00285	0.000538	-0.00096	-0.00072	0.000706	0.00157	-0.00039
0.000479	0.001379	0.001092	0.005784	-0.00318	-0.00251	-7.86E-05	-0.00289	0.000533	-0.00096	-0.00072	0.000709	0.00157	-0.0004
0.000951	-0.00019	0.000302	0.006058	-0.00305	-0.00253	3.79E-05	-0.00293	0.000528	-0.00096	-0.00071	0.000712	0.001571	-0.0004
0.000282	-0.00166	-0.00052	0.006277	-0.00291	-0.00254	0.000153	-0.00297	0.000523	-0.00096	-0.00071	0.000714	0.001571	-0.0004
-0.00052	-0.00284	-0.00128	0.006453	-0.00277	-0.00255	0.000268	-0.00301	0.000518	-0.00096	-0.00071	0.000717	0.001572	-0.0004
-0.00134	-0.00351	-0.00189	0.006597	-0.00262	-0.00255	0.000382	-0.00305	0.000513	-0.00096	-0.00071	0.00072	0.001572	-0.00041
-7.71E-05	-0.00354	-0.00226	0.006719	-0.00246	-0.00254	0.000494	-0.00309	0.000508	-0.00095	-0.00071	0.000723	0.001573	-0.00041
0.000309	-0.00311	-0.00232	0.00683	-0.0023	-0.00252	0.000605	-0.00312	0.000503	-0.00095	-0.0007	0.000725	0.001574	-0.00041
0.001008	-0.00235	-0.00211	0.006939	-0.00213	-0.0025	0.000716	-0.00316	0.000498	-0.00095	-0.0007	0.000728	0.001574	-0.00041
0.001069	-0.00138	-0.00169	0.007048	-0.00196	-0.00247	0.000825	-0.0032	0.000493	-0.00095	-0.0007	0.000731	0.001575	-0.00042

0.001583	-0.00032	-0.00111	0.007156	-0.00178	-0.00244	0.000933	-0.00323	0.000488	-0.00095	-0.0007	0.000734	0.001575	-0.00042
0.001701	0.00073	-0.00043	0.007265	-0.00159	-0.0024	0.001039	-0.00327	0.000483	-0.00095	-0.0007	0.000736	0.001576	-0.00042
0.002002	0.001646	0.000283	0.007374	-0.0014	-0.00236	0.001145	-0.00331	0.000478	-0.00094	-0.00069	0.000739	0.001576	-0.00042
2.06E-05	0.002302	0.000982	0.007484	-0.00121	-0.00231	0.001249	-0.00334	0.000473	-0.00094	-0.00069	0.000742	0.001577	-0.00043
-0.00206	0.002511	0.001608	0.007594	-0.00101	-0.00225	0.001352	-0.00337	0.000467	-0.00094	-0.00069	0.000745	0.001577	-0.00043
-0.00199	0.002116	0.002105	0.007706	-0.00081	-0.00219	0.001454	-0.00341	0.000462	-0.00094	-0.00069	0.000747	0.001578	-0.00043
-0.00092	0.001191	0.00243	0.007819	-0.00061	-0.00213	0.001554	-0.00344	0.000457	-0.00094	-0.00069	0.00075	0.001578	-0.00043
0.000676	3.06E-05	0.002559	0.007933	-0.0004	-0.00206	0.001654	-0.00347	0.000452	-0.00093	-0.00068	0.000753	0.001579	-0.00044
0.001969	-0.00103	0.002473	0.00805	-0.00019	-0.00199	0.001751	-0.00351	0.000447	-0.00093	-0.00068	0.000755	0.001579	-0.00044
0.001778	-0.0017	0.002158	0.008163	2.39E-05	-0.00191	0.001848	-0.00354	0.000442	-0.00093	-0.00068	0.000758	0.001579	-0.00044
0.001596	-0.00193	0.001609	0.008259	0.000238	-0.00183	0.001943	-0.00357	0.000436	-0.00093	-0.00068	0.000761	0.00158	-0.00044
0.000934	-0.00173	0.000832	0.008323	0.000453	-0.00175	0.002036	-0.0036	0.000431	-0.00093	-0.00068	0.000763	0.00158	-0.00045
0.000117	-0.00116	-0.00012	0.008341	0.000669	-0.00166	0.002128	-0.00363	0.000426	-0.00093	-0.00067	0.000766	0.001581	-0.00045
-0.00094	-0.00035	-0.00112	0.008301	0.000886	-0.00158	0.002219	-0.00366	0.000421	-0.00092	-0.00067	0.000769	0.001581	-0.00045
-0.0015	0.000562	-0.00203	0.008187	0.001104	-0.00148	0.002308	-0.00369	0.000415	-0.00092	-0.00067	0.000771	0.001582	-0.00045
-0.00058	0.001361	-0.00269	0.007987	0.001321	-0.00139	0.002396	-0.00372	0.00041	-0.00092	-0.00067	0.000774	0.001582	-0.00046
0.000105	0.001777	-0.00295	0.007687	0.001539	-0.00129	0.002482	-0.00375	0.000405	-0.00092	-0.00067	0.000777	0.001582	-0.00046
0.001216	0.001563	-0.00268	0.007277	0.001756	-0.0012	0.002566	-0.00377	0.000399	-0.00092	-0.00066	0.000779	0.001583	-0.00046
0.000594	0.000723	-0.002	0.006764	0.001971	-0.0011	0.002649	-0.0038	0.000394	-0.00092	-0.00066	0.000782	0.001583	-0.00046
0.000301	-0.00042	-0.00104	0.006157	0.002184	-0.00099	0.00273	-0.00383	0.000389	-0.00091	-0.00066	0.000784	0.001584	-0.00047
-0.00052	-0.00147	2.69E-05	0.005468	0.002395	-0.00089	0.00281	-0.00385	0.000383	-0.00091	-0.00066	0.000787	0.001584	-0.00047
-0.00088	-0.00204	0.001056	0.004706	0.002602	-0.00079	0.002888	-0.00388	0.000378	-0.00091	-0.00066	0.00079	0.001584	-0.00047
6.43E-05	-0.00187	0.001943	0.003882	0.002805	-0.00068	0.002964	-0.0039	0.000373	-0.00091	-0.00065	0.000792	0.001585	-0.00047
0.00056	-0.00113	0.002648	0.003005	0.003003	-0.00058	0.003039	-0.00392	0.000367	-0.00091	-0.00065	0.000795	0.001585	-0.00048
0.000667	-4.07E-05	0.003149	0.002087	0.003196	-0.00047	0.003112	-0.00395	0.000362	-0.0009	-0.00065	0.000797	0.001585	-0.00048
-0.00032	0.00108	0.003424	0.001139	0.003383	-0.00036	0.003183	-0.00397	0.000356	-0.0009	-0.00065	0.0008	0.001586	-0.00048
-0.00046	0.001925	0.003447	0.00017	0.003563	-0.00026	0.003252	-0.00399	0.000351	-0.0009	-0.00065	0.000802	0.001586	-0.00049
-0.00047	0.002533	0.003196	-0.0008	0.003736	-0.00015	0.00332	-0.00401	0.000346	-0.0009	-0.00064	0.000805	0.001586	-0.00049
0.000401	0.002857	0.002661	-0.00178	0.0039	-4.36E-05	0.003386	-0.00404	0.00034	-0.0009	-0.00064	0.000807	0.001587	-0.00049
-1.13E-05	0.002355	0.001881	-0.00273	0.004056	6.16E-05	0.00345	-0.00406	0.000335	-0.0009	-0.00064	0.00081	0.001587	-0.00049
-0.00029	0.000955	0.000929	-0.00366	0.004203	0.000166	0.003512	-0.00408	0.000329	-0.00089	-0.00064	0.000812	0.001587	-0.0005
0.00025	-0.00099	-0.00011	-0.00455	0.004339	0.000269	0.003572	-0.00409	0.000324	-0.00089	-0.00064	0.000815	0.001587	-0.0005
-0.00024	-0.00234	-0.00117	-0.00539	0.004465	0.000371	0.00363	-0.00411	0.000318	-0.00089	-0.00063	0.000817	0.001588	-0.0005
0.000246	-0.00305	-0.00215	-0.00616	0.004579	0.000472	0.003687	-0.00413	0.000313	-0.00089	-0.00063	0.00082	0.001588	-0.0005
0.000192	-0.00353	-0.00298	-0.00687	0.004682	0.00057	0.003741	-0.00415	0.000307	-0.00089	-0.00063	0.000822	0.001588	-0.00051
-0.00018	-0.00389	-0.00358	-0.0075	0.004771	0.000667	0.003793	-0.00417	0.000302	-0.00089	-0.00063	0.000825	0.001588	-0.00051
-0.00038	-0.00389	-0.00387	-0.00803	0.004848	0.000761	0.003844	-0.00418	0.000296	-0.00088	-0.00063	0.000827	0.001589	-0.00051
0.000433	-0.00328	-0.00382	-0.00845	0.00491	0.000853	0.003892	-0.0042	0.000291	-0.00088	-0.00062	0.00083	0.001589	-0.00051
-0.00028	-0.00205	-0.00347	-0.00877	0.004957	0.000942	0.003938	-0.00421	0.000285	-0.00088	-0.00062	0.000832	0.001589	-0.00052
-0.00054	-0.00057	-0.00288	-0.009	0.004989	0.001029	0.003983	-0.00423	0.000279	-0.00088	-0.00062	0.000835	0.001589	-0.00052
1.94E-05	0.000856	-0.00211	-0.00913	0.005005	0.001112	0.004025	-0.00424	0.000274	-0.00088	-0.00062	0.000837	0.00159	-0.00052
0.00061	0.00195	-0.0012	-0.00917	0.005005	0.001192	0.004065	-0.00425	0.000268	-0.00087	-0.00061	0.000839	0.00159	-0.00052
0.000253	0.002536	-0.00022	-0.00914	0.004987	0.001268	0.004103	-0.00427	0.000263	-0.00087	-0.00061	0.000842	0.00159	-0.00053
-0.00019	0.002827	0.000779	-0.00903	0.004954	0.001341	0.004138	-0.00428	0.000257	-0.00087	-0.00061	0.000844	0.00159	-0.00053
-0.00063	0.003114	0.001741	-0.00886	0.004904	0.00141	0.004172	-0.00429	0.000251	-0.00087	-0.00061	0.000847	0.00159	-0.00053
-0.00063	0.003632	0.002609	-0.00863	0.00484	0.001476	0.004203	-0.0043	0.000246	-0.00087	-0.00061	0.000849	0.001591	-0.00053
-0.00044	0.004379	0.003329	-0.00836	0.004761	0.001539	0.004232	-0.00431	0.00024	-0.00087	-0.0006	0.000851	0.001591	-0.00054
-1.08E-05	0.005078	0.003844	-0.00804	0.004668	0.001598	0.004259	-0.00432	0.000234	-0.00086	-0.0006	0.000854	0.001591	-0.00054
0.000533	0.005392	0.004099	-0.00769	0.004562	0.001654	0.004283	-0.00433	0.000229	-0.00086	-0.0006	0.000856	0.001591	-0.00054
-0.00034	0.005066	0.004055	-0.00731	0.004444	0.001707	0.004306	-0.00433	0.000223	-0.00086	-0.0006	0.000858	0.001591	-0.00055
-0.00037	0.004163	0.003739	-0.00691	0.004313	0.001757	0.004325	-0.00434	0.000217	-0.00086	-0.0006	0.000861	0.001591	-0.00055
-0.00037	0.002823	0.003198	-0.00647	0.004171	0.001804	0.004343	-0.00435	0.000211	-0.00086	-0.00059	0.000863	0.001592	-0.00055
0.000314	0.001161	0.00248	-0.006	0.004018	0.001848	0.004358	-0.00435	0.000206	-0.00086	-0.00059	0.000865	0.001592	-0.00055
-0.00026	-0.00066	0.001635	-0.0055	0.003855	0.001889	0.004371	-0.00436	0.0002	-0.00085	-0.00059	0.000868	0.001592	-0.00056
-0.00011	-0.00212	0.000711	-0.00497	0.003682	0.001928	0.004381	-0.00436	0.000194	-0.00085	-0.00059	0.00087	0.001592	-0.00056
0.000179	-0.00299	-0.00024	-0.00441	0.0035	0.001964	0.004389	-0.00437	0.000188	-0.00085	-0.00059	0.000872	0.001592	-0.00056
-0.00017	-0.00358	-0.00117	-0.00382	0.00331	0.001997	0.004395	-0.00437	0.000183	-0.00085	-0.00058	0.000874	0.001592	-0.00056
0.000174	-0.00452	-0.00204	-0.00321	0.003112	0.002027	0.004398	-0.00437	0.000177	-0.00085	-0.00058	0.000877	0.001592	-0.00057
-0.00017	-0.00522	-0.00278	-0.00256	0.002907	0.002056	0.004398	-0.00437	0.000171	-0.00084	-0.00058	0.000879	0.001592	-0.00057
-0.00023	-0.00557	-0.00336	-0.00189	0.002695	0.002081	0.004397	-0.00438	0.000165	-0.00084	-0.00058	0.000881	0.001592	-0.00057
0.000271	-0.00538	-0.00372	-0.0012	0.002477	0.002104	0.004393	-0.00438	0.000159	-0.00084	-0.00058	0.000883	0.001592	-0.00057
-0.0003	-0.00433	-0.0039	-0.00048	0.002254	0.002125	0.004386	-0.00438	0.000153	-0.00084	-0.00057	0.000886	0.001592	-0.00058
0.00032	-0.00131	-0.00389	0.000268	0.002026	0.002143	0.004378	-0.00438	0.000148	-0.00084	-0.00057	0.000888	0.001592	-0.00058
-0.00032	0.002699	-0.00371	0.001038	0.001793	0.002159	0.004367	-0.00437	0.000142	-0.00084	-0.00057	0.00089	0.001592	-0.00058
0.000313	0.005054	-0.00338	0.001822	0.001558	0.002172	0.004354	-0.00437	0.000136	-0.00083	-0.00057	0.000892	0.001592	-0.00059
-0.00029	0.005133	-0.00289	0.002612	0.001319	0.002183	0.004339	-0.00437	0.00013	-0.00083	-0.00057	0.000895	0.001592	-0.00059
0.000259	0.004541	-0.00227	0.003401	0.001078	0.002191	0.004321	-0.00436	0.000124	-0.00083	-0.00056	0.000897	0.001592	-0.00059
-0.00022	0.003973	-0.00154	0.00418	0.000835	0.002198	0.004302	-0.00436	0.000118	-0.00083	-0.00056	0.000899	0.001592	-0.00059
-0.00016	0.003012	-0.00073	0.004941	0.000591	0.002201	0.00428	-0.00436	0.000112	-0.00083	-0.00056	0.000901	0.001592	-0.0006
3.43E-05	0.001507	0.000105	0.005677	0.000346	0.002203	0.004257	-0.00435	0.000106	-0.00082	-0.00056	0.000903	0.001592	-0.0006
9.19E-05	-0.00042	0.000929	0.006378	0.000102	0.002202	0.004232	-0.00434	0.0001	-0.00082	-0.00056	0.000905	0.001592	-0.0006
0.000127	-0.00222	0.00169	0.007037	-0.00014	0.002199	0.004204	-0.00434	9.42E-05	-0.00082	-0.00055	0.000908	0.001592	-0.0006
-0.00013	-0.00345	0.002338	0.007646	-0.00038	0.002194	0.004175	-0.00433	8.83E-05	-0.00082	-0.00055	0.00091	0.001592	-0.00061
0.000151	-0.00409	0.002825	0.008196	-0.00063	0.002186	0.004144	-0.00432	8.23E-05	-0.00082	-0.00055	0.000912	0.001592	-0.00061
5.45E-05	-0.00399	0.003117	0.008681	-0.00086	0.002176	0.004111	-0.00431	7.63E-05	-0.00082	-0.00055	0.000914	0.001592	-0.00061
-1.59E-05	-0.00322	0.003205	0.009089	-0.0011	0.002165	0.004076	-0.0043	7.02E-05	-0.00081	-0.00054	0.000916	0.001592	-0.00061
-0.0001	-0.00198	0.003129	0.009412	-0.00133	0.002151	0.004039	-0.00429	6.42E-05	-0.00081	-0.00054	0.000918	0.001592	-0.00062
-0.00035	-0.00048	0.002929	0.009646	-0.00156	0.002135	0.004001	-0.00428	5.82E-05	-0.00081	-0.00054	0.00092	0.001592	-0.00062
-0.00022	0.001028	0.00264	0.009798	-0.00178	0.002116	0.003961	-0.00427	5.21E-05	-0.00081	-0.00054	0.000922	0.001592	-0.00062
8.93E-05	0.002276	0.002295	0.009872	-0.002	0.002096	0.003919	-0.00426	4.60E-05	-0.00081	-0.00054	0.000924	0.001592	-0.00063
0.000519	0.002987	0.001928	0.009874	-0.00221	0.002074	0.003876	-0.00425	4.00E-05	-0.00081	-0.00053	0.000926	0.001592	-0.00063
-0.00042	0.002983	0.001567	0.00981	-0.00241	0.00205	0.003831	-0.00423	3.39E-05	-0.0008	-0.00053	0.000928	0.001592	-0.00063
-0.0006	0.002471	0.001217	0.009686	-0.00261	0.002024	0.003785	-0.00422	2.78E-05	-0.0008	-0.00053	0.00093	0.001592	-0.00063
-0.00051	0.001723	0.000878	0.009508	-0.0028	0.001995	0.003737	-0.0042	2.17E-05	-0.0008	-0.00053	0.000932	0.001591	-0.00064
-7.37E-05	0.000864	0.000551	0.009283	-0.00298	0.001965	0.003687	-0.00419	1.55E-05	-0.0008	-0.00053	0.000934	0.001591	-0.00064
0.000211	-1.85E-05	0.000234	0.009016	-0.00315	0.001934	0.003636	-0.00417	9.40E-06	-0.0008	-0.00052	0.000936	0.001591	-0.00064
0.000654	-0.00084	-7.26E-05	0.008714	-0.00332	0.0019	0.003583	-0.00416	3.25E-06	-0.00079	-0.00052	0.000938	0.001591	-0.00064
0.000525	-0.00147	-0.00037	0.008382	-0.00348	0.001864	0.003529	-0.00414	-2.90E-06	-0.00079	-0.00052	0.00094	0.001591	-0.00065
0.0004	-0.0018	-0.00065	0.008027	-0.00363	0.001827	0.003474	-0.00412	-9.07E-06	-0.00079	-0.00052	0.000942	0.001591	-0.00065
-0.00058	-0.00168	-0.00093	0.007654	-0.00378	0.001788	0.003417	-0.00411	-1.53E-05	-0.00079	-0.00052	0.000944	0.00159	-0.00065
-0.00058	-0.00104	-0.00118	0.007271	-0.00391	0.001747	0.003359	-0.00409	-2.14E-05	-0.00079	-0.00051	0.000946	0.00159	-0.00066
-4.53E-05	-3.62E-05	-0.0014	0.006882	-0.00404	0.001705	0.0033	-0.00407	-2.76E-05	-0.00079	-0.00051	0.000948	0.00159	-0.00066
0.000438	0.000864	-0.00157	0.006494	-0.00416	0.00166	0.00324	-0.00405	-3.38E-05	-0.00078	-0.00051	0.00095	0.00159	-0.00066

0.000176	0.001231	-0.00171	0.006115	-0.00427	0.001615	0.003178	-0.00403	-4.01E-05	-0.00078	-0.00051	0.000952	0.00159	-0.00066
-0.00032	0.000972	-0.00182	0.005751	-0.00437	0.001567	0.003115	-0.00401	-4.63E-05	-0.00078	-0.00051	0.000954	0.001589	-0.00067
0.000172	0.000252	-0.00188	0.005412	-0.00446	0.001518	0.003051	-0.00399	-5.25E-05	-0.00078	-0.0005	0.000956	0.001589	-0.00067
0.00021	-0.00045	-0.00186	0.005108	-0.00455	0.001468	0.002985	-0.00397	-5.88E-05	-0.00078	-0.0005	0.000958	0.001589	-0.00067
-0.00016	-0.00081	-0.00171	0.004841	-0.00462	0.001415	0.002919	-0.00394	-6.50E-05	-0.00077	-0.0005	0.00096	0.001589	-0.00067
-0.00014	-0.00087	-0.00137	0.004604	-0.00468	0.001362	0.002852	-0.00392	-7.13E-05	-0.00077	-0.0005	0.000962	0.001589	-0.00068
0.000102	-0.00076	-0.00083	0.004386	-0.00473	0.001307	0.002783	-0.0039	-7.76E-05	-0.00077	-0.0005	0.000964	0.001588	-0.00068
-9.41E-05	-0.00056	-0.00018	0.00418	-0.00478	0.00125	0.002714	-0.00388	-8.39E-05	-0.00077	-0.00049	0.000965	0.001588	-0.00068
0.000104	-0.00026	0.000486	0.003978	-0.00481	0.001192	0.002643	-0.00385	-9.02E-05	-0.00077	-0.00049	0.000967	0.001588	-0.00069
-0.00013	0.000366	0.00104	0.003771	-0.00483	0.001133	0.002572	-0.00383	-9.64E-05	-0.00077	-0.00049	0.000969	0.001587	-0.00069
0.000164	0.00079	0.001377	0.003552	-0.00484	0.001072	0.0025	-0.0038	-0.0001	-0.00076	-0.00049	0.000971	0.001587	-0.00069
-0.00019	0.000249	0.00141	0.003309	-0.00484	0.00101	0.002427	-0.00378	-0.00011	-0.00076	-0.00049	0.000973	0.001587	-0.00069
0.000214	-0.00063	0.00115	0.003025	-0.00483	0.000947	0.002353	-0.00375	-0.00012	-0.00076	-0.00048	0.000975	0.001587	-0.0007
-8.51E-05	-0.00091	0.00064	0.002674	-0.00481	0.000882	0.002278	-0.00373	-0.00012	-0.00076	-0.00048	0.000976	0.001586	-0.0007
-0.00021	-0.00049	-4.52E-05	0.002227	-0.00477	0.000816	0.002202	-0.0037	-0.00013	-0.00076	-0.00048	0.000978	0.001586	-0.0007
0.000186	0.000437	-0.00072	0.001657	-0.00472	0.000749	0.002126	-0.00367	-0.00013	-0.00076	-0.00048	0.00098	0.001586	-0.0007
0.000184	0.001154	-0.00116	0.000942	-0.00467	0.000679	0.002049	-0.00364	-0.00014	-0.00075	-0.00047	0.000982	0.001585	-0.00071
-0.00012	0.001016	-0.00121	5.56E-05	-0.00459	0.000609	0.001972	-0.00362	-0.00015	-0.00075	-0.00047	0.000984	0.001585	-0.00071
9.38E-05	0.000256	-0.00089	-0.001	-0.00451	0.000537	0.001893	-0.00359	-0.00015	-0.00075	-0.00047	0.000985	0.001585	-0.00071
-7.06E-05	-0.00053	-0.00035	-0.00219	-0.00441	0.000463	0.001814	-0.00356	-0.00016	-0.00075	-0.00047	0.000987	0.001584	-0.00072
6.09E-05	-0.00131	0.000247	-0.00345	-0.0043	0.000389	0.001735	-0.00353	-0.00017	-0.00075	-0.00047	0.000989	0.001584	-0.00072
-6.81E-05	-0.00175	0.00076	-0.00471	-0.00418	0.000313	0.001655	-0.0035	-0.00017	-0.00074	-0.00046	0.00099	0.001583	-0.00072
2.93E-06	-0.00131	0.001055	-0.00593	-0.00404	0.000235	0.001574	-0.00347	-0.00018	-0.00074	-0.00046	0.000992	0.001583	-0.00072
0.000123	-8.53E-05	0.001109	-0.00704	-0.00389	0.000157	0.001493	-0.00344	-0.00019	-0.00074	-0.00046	0.000994	0.001583	-0.00073
-0.00016	0.00137	0.000964	-0.00799	-0.00373	7.76E-05	0.001412	-0.00341	-0.00019	-0.00074	-0.00046	0.000996	0.001582	-0.00073
0.000192	0.002241	0.000673	-0.00876	-0.00355	-2.83E-06	0.00133	-0.00338	-0.0002	-0.00074	-0.00046	0.000997	0.001582	-0.00073
-0.00022	0.002112	0.000276	-0.00931	-0.00336	-8.41E-05	0.001248	-0.00335	-0.0002	-0.00074	-0.00045	0.000999	0.001581	-0.00074
6.31E-05	0.001171	-0.00017	-0.0096	-0.00316	-0.00017	0.001165	-0.00332	-0.00021	-0.00073	-0.00045	0.001001	0.001581	-0.00074
0.000245	-0.0002	-0.00059	-0.0096	-0.00294	-0.00025	0.001082	-0.00328	-0.00022	-0.00073	-0.00045	0.001002	0.00158	-0.00074
-0.0002	-0.00156	-0.00093	-0.00928	-0.00271	-0.00033	0.000999	-0.00325	-0.00022	-0.00073	-0.00045	0.001004	0.00158	-0.00074
-0.00024	-0.00253	-0.0011	-0.00861	-0.00247	-0.00042	0.000915	-0.00322	-0.00023	-0.00073	-0.00045	0.001006	0.00158	-0.00075
-0.00013	-0.00271	-0.00105	-0.00758	-0.00221	-0.0005	0.000831	-0.00319	-0.00024	-0.00073	-0.00044	0.001007	0.001579	-0.00075
-4.60E-05	-0.00201	-0.00074	-0.00624	-0.00195	-0.00058	0.000748	-0.00315	-0.00024	-0.00073	-0.00044	0.001009	0.001579	-0.00075
0.000201	-0.00076	-0.00026	-0.00468	-0.00169	-0.00067	0.000663	-0.00312	-0.00025	-0.00072	-0.00044	0.00101	0.001578	-0.00075
-0.00019	0.000597	0.000281	-0.00296	-0.00141	-0.00075	0.000579	-0.00308	-0.00026	-0.00072	-0.00044	0.001012	0.001578	-0.00076
0.000178	0.001671	0.000774	-0.00115	-0.00114	-0.00084	0.000495	-0.00305	-0.00026	-0.00072	-0.00044	0.001014	0.001577	-0.00076
-0.00018	0.002389	0.001105	0.000664	-0.00086	-0.00092	0.000411	-0.00302	-0.00027	-0.00072	-0.00043	0.001015	0.001577	-0.00076
0.000184	0.002618	0.001163	0.002424	-0.00058	-0.00101	0.000326	-0.00298	-0.00028	-0.00072	-0.00043	0.001017	0.001576	-0.00077
0.000121	0.002108	0.000879	0.004059	-0.0003	-0.00109	0.000242	-0.00295	-0.00028	-0.00071	-0.00043	0.001018	0.001576	-0.00077
-0.00022	0.000861	0.000348	0.005531	-2.52E-05	-0.00118	0.000157	-0.00291	-0.00029	-0.00071	-0.00043	0.00102	0.001575	-0.00077
0.000243	-0.00069	-0.00028	0.0068	0.000247	-0.00126	7.32E-05	-0.00287	-0.00029	-0.00071	-0.00043	0.001021	0.001574	-0.00077
-0.0001	-0.00174	-0.00085	0.007828	0.000515	-0.00135	-1.10E-05	-0.00284	-0.0003	-0.00071	-0.00042	0.001023	0.001574	-0.00078
-0.00027	-0.00208	-0.00121	0.008571	0.000776	-0.00143	-9.50E-05	-0.0028	-0.00031	-0.00071	-0.00042	0.001024	0.001573	-0.00078
0.000274	-0.00186	-0.00121	0.009006	0.001028	-0.00151	-0.00018	-0.00276	-0.00031	-0.00071	-0.00042	0.001026	0.001573	-0.00078
-9.17E-05	-0.00132	-0.0009	0.009122	0.001271	-0.00159	-0.00026	-0.00273	-0.00032	-0.0007	-0.00042	0.001027	0.001572	-0.00079
-0.00024	-0.00057	-0.00039	0.00893	0.001503	-0.00167	-0.00035	-0.00269	-0.00033	-0.0007	-0.00042	0.001029	0.001572	-0.00079
-0.00023	0.000247	0.000208	0.008439	0.001724	-0.00175	-0.00043	-0.00265	-0.00033	-0.0007	-0.00041	0.00103	0.001571	-0.00079
0.000187	0.000881	0.000765	0.007666	0.001934	-0.00183	-0.00051	-0.00262	-0.00034	-0.0007	-0.00041	0.001032	0.00157	-0.00079
-0.00016	0.001179	0.001153	0.006642	0.002133	-0.00191	-0.00059	-0.00258	-0.00035	-0.0007	-0.00041	0.001033	0.00157	-0.0008
0.000134	0.000919	0.001256	0.005423	0.002321	-0.00199	-0.00068	-0.00254	-0.00035	-0.00069	-0.00041	0.001034	0.001569	-0.0008
-0.00012	0.000206	0.001074	0.004071	0.002499	-0.00206	-0.00076	-0.0025	-0.00036	-0.00069	-0.00041	0.001036	0.001568	-0.0008
0.000115	-0.00046	0.000645	0.002638	0.002665	-0.00213	-0.00084	-0.00246	-0.00037	-0.00069	-0.0004	0.001037	0.001568	-0.00081
-0.00012	-0.0007	1.52E-05	0.001168	0.00282	-0.00221	-0.00092	-0.00242	-0.00037	-0.00069	-0.0004	0.001039	0.001567	-0.00081
0.000147	-0.00013	-0.00072	-0.00029	0.002965	-0.00228	-0.001	-0.00238	-0.00038	-0.00069	-0.0004	0.00104	0.001566	-0.00081
-0.00019	0.000579	-0.00125	-0.00169	0.003098	-0.00235	-0.00108	-0.00235	-0.00039	-0.00069	-0.0004	0.001041	0.001566	-0.00081
0.000121	0.000372	-0.00128	-0.00299	0.003221	-0.00241	-0.00116	-0.00231	-0.00039	-0.00068	-0.0004	0.001043	0.001565	-0.00082
0.000324	-0.00024	-0.00092	-0.00417	0.003334	-0.00248	-0.00124	-0.00227	-0.0004	-0.00068	-0.00039	0.001044	0.001564	-0.00082
-0.00017	-0.00058	-0.00036	-0.00522	0.003435	-0.00254	-0.00132	-0.00223	-0.0004	-0.00068	-0.00039	0.001045	0.001564	-0.00082
-0.00054	-0.00048	0.000229	-0.00613	0.003526	-0.0026	-0.0014	-0.00219	-0.00041	-0.00068	-0.00039	0.001047	0.001563	-0.00083
7.43E-05	-1.49E-05	0.000757	-0.0069	0.003607	-0.00266	-0.00147	-0.00215	-0.00042	-0.00068	-0.00039	0.001048	0.001562	-0.00083
0.000183	0.000539	0.001142	-0.00752	0.003677	-0.00272	-0.00155	-0.00211	-0.00042	-0.00068	-0.00039	0.001049	0.001562	-0.00083
0.000993	0.000864	0.001301	-0.00796	0.003736	-0.00278	-0.00162	-0.00207	-0.00043	-0.00067	-0.00038	0.001051	0.001561	-0.00083
0.000545	0.000727	0.001178	-0.00823	0.003785	-0.00283	-0.0017	-0.00203	-0.00044	-0.00067	-0.00038	0.001052	0.00156	-0.00084
0.000124	0.000244	0.000803	-0.00833	0.003825	-0.00288	-0.00177	-0.00198	-0.00044	-0.00067	-0.00038	0.001053	0.001559	-0.00084
-0.00042	-0.0004	0.00027	-0.00828	0.003853	-0.00293	-0.00185	-0.00194	-0.00045	-0.00067	-0.00038	0.001055	0.001559	-0.00084
-0.00113	-0.00104	-0.00031	-0.00812	0.003872	-0.00297	-0.00192	-0.0019	-0.00046	-0.00067	-0.00038	0.001056	0.001558	-0.00085
-0.00195	-0.0015	-0.00085	-0.00788	0.003881	-0.00302	-0.00199	-0.00186	-0.00046	-0.00066	-0.00037	0.001057	0.001557	-0.00085
-0.00042	-0.00164	-0.00122	-0.00759	0.003879	-0.00306	-0.00206	-0.00182	-0.00047	-0.00066	-0.00037	0.001058	0.001556	-0.00085
0.000624	-0.00155	-0.00134	-0.00729	0.003869	-0.0031	-0.00213	-0.00178	-0.00048	-0.00066	-0.00037	0.00106	0.001555	-0.00085
0.001566	-0.00128	-0.00122	-0.007	0.003849	-0.00314	-0.0022	-0.00174	-0.00048	-0.00066	-0.00037	0.001061	0.001555	-0.00086
0.002382	-0.00084	-0.00093	-0.00672	0.003821	-0.00317	-0.00226	-0.0017	-0.00049	-0.00066	-0.00037	0.001062	0.001554	-0.00086
0.002947	-0.00027	-0.0005	-0.00646	0.003784	-0.0032	-0.00233	-0.00165	-0.0005	-0.00066	-0.00036	0.001063	0.001553	-0.00086
0.003027	0.000435	-1.23E-05	-0.0062	0.003739	-0.00323	-0.0024	-0.00161	-0.0005	-0.00065	-0.00036	0.001064	0.001552	-0.00087
0.000661	0.001237	0.000483	-0.00594	0.003686	-0.00326	-0.00246	-0.00157	-0.00051	-0.00065	-0.00036	0.001065	0.001551	-0.00087
-0.00172	0.002005	0.000925	-0.00568	0.003626	-0.00328	-0.00252	-0.00153	-0.00051	-0.00065	-0.00036	0.001067	0.001551	-0.00087
-0.00339	0.00258	0.001255	-0.00541	0.003559	-0.0033	-0.00258	-0.00149	-0.00052	-0.00065	-0.00036	0.001068	0.00155	-0.00087
-0.00224	0.002841	0.001411	-0.00513	0.003486	-0.00332	-0.00264	-0.00145	-0.00053	-0.00065	-0.00035	0.001069	0.001549	-0.00088
-0.001	0.002816	0.001345	-0.00483	0.003407	-0.00334	-0.0027	-0.0014	-0.00053	-0.00065	-0.00035	0.00107	0.001548	-0.00088
0.001288	0.002499	0.001087	-0.00449	0.003322	-0.00335	-0.00276	-0.00136	-0.00054	-0.00064	-0.00035	0.001071	0.001547	-0.00088
0.003589	0.001866	0.000691	-0.00411	0.003232	-0.00337	-0.00282	-0.00132	-0.00055	-0.00064	-0.00035	0.001072	0.001546	-0.00089
0.002877	0.000919	0.000212	-0.00368	0.003137	-0.00338	-0.00287	-0.00128	-0.00055	-0.00064	-0.00035	0.001073	0.001545	-0.00089
0.002428	-0.00021	-0.0003	-0.0032	0.003038	-0.00339	-0.00293	-0.00123	-0.00056	-0.00064	-0.00034	0.001074	0.001544	-0.00089
0.001108	-0.00137	-0.00078	-0.00267	0.002934	-0.00339	-0.00298	-0.00119	-0.00057	-0.00064	-0.00034	0.001075	0.001543	-0.00089
-0.00039	-0.00239	-0.00118	-0.00207	0.002827	-0.0034	-0.00303	-0.00115	-0.00057	-0.00063	-0.00034	0.001076	0.001542	-0.0009
-0.00156	-0.00311	-0.00145	-0.00141	0.002716	-0.0034	-0.00308	-0.00111	-0.00058	-0.00063	-0.00034	0.001077	0.001542	-0.0009
-0.00284	-0.00339	-0.00152	-0.00068	0.002603	-0.0034	-0.00313	-0.00107	-0.00059	-0.00063	-0.00034	0.001078	0.001541	-0.0009
-0.00284	-0.00308	-0.00137	0.000113	0.002487	-0.0034	-0.00317	-0.00102	-0.00059	-0.00063	-0.00034	0.001079	0.00154	-0.00091
-0.00304	-0.00221	-0.00102	0.00095	0.002369	-0.0034	-0.00322	-0.00098	-0.0006	-0.00063	-0.00033	0.00108	0.001539	-0.00091
-0.00149	-0.00089	-0.00055	0.001807	0.00225	-0.00339	-0.00326	-0.00094	-0.0006	-0.00063	-0.00033	0.001081	0.001538	-0.00091
-0.0005	0.000614	-5.85E-06	0.002662	0.002129	-0.00338	-0.0033	-0.0009	-0.00061	-0.00062	-0.00033	0.001082	0.001537	-0.00092
0.001137	0.001997	0.00054	0.003493	0.002007	-0.00337	-0.00335	-0.00085	-0.00062	-0.00062	-0.00033	0.001083	0.001536	-0.00092
0.00239	0.00295	0.001028	0.004278	0.001885	-0.00336	-0.00338	-0.00081	-0.00062	-0.00062	-0.00033	0.001084	0.001535	-0.00092
0.002382	0.003207	0.001398	0.004994	0.001762	-0.00335	-0.00342	-0.00077	-0.00063	-0.00062	-0.00032	0.001085	0.001534	-0.00092

0.001116	0.002734	0.0016	0.005619	0.00164	-0.00334	-0.00346	-0.00073	-0.00064	-0.00062	-0.00032	0.001086	0.001533	-0.00093
0.000595	0.00178	0.001647	0.00613	0.001519	-0.00332	-0.00349	-0.00069	-0.00064	-0.00062	-0.00032	0.001087	0.001532	-0.00093
-0.00031	0.000645	0.001576	0.006508	0.001399	-0.0033	-0.00353	-0.00064	-0.00065	-0.00061	-0.00032	0.001088	0.001531	-0.00093
-0.00142	-0.00037	0.001414	0.006744	0.00128	-0.00328	-0.00356	-0.0006	-0.00065	-0.00061	-0.00032	0.001089	0.001529	-0.00094
-0.00111	-0.00107	0.001179	0.006842	0.001163	-0.00326	-0.00359	-0.00056	-0.00066	-0.00061	-0.00031	0.00109	0.001528	-0.00094
0.000307	-0.00156	0.000882	0.006808	0.001048	-0.00323	-0.00362	-0.00052	-0.00067	-0.00061	-0.00031	0.001091	0.001527	-0.00094
0.000865	-0.00194	0.000534	0.006651	0.000936	-0.00321	-0.00365	-0.00048	-0.00067	-0.00061	-0.00031	0.001092	0.001526	-0.00094
0.000278	-0.00225	0.000148	0.006381	0.000826	-0.00318	-0.00368	-0.00043	-0.00068	-0.00061	-0.00031	0.001092	0.001525	-0.00095
-0.00019	-0.00245	-0.00026	0.006005	0.000718	-0.00315	-0.0037	-0.00039	-0.00069	-0.0006	-0.00031	0.001093	0.001524	-0.00095
-0.00044	-0.00247	-0.00069	0.005531	0.000611	-0.00312	-0.00373	-0.00035	-0.00069	-0.0006	-0.0003	0.001094	0.001523	-0.00095
0.000335	-0.00209	-0.00112	0.00497	0.000506	-0.00308	-0.00375	-0.00031	-0.0007	-0.0006	-0.0003	0.001095	0.001522	-0.00096
8.06E-05	-0.00087	-0.00149	0.004329	0.000404	-0.00305	-0.00377	-0.00027	-0.0007	-0.0006	-0.0003	0.001096	0.001521	-0.00096
-6.43E-05	0.000593	-0.00174	0.003616	0.000302	-0.00301	-0.00379	-0.00023	-0.00071	-0.0006	-0.0003	0.001096	0.00152	-0.00096
-0.00018	0.001793	-0.00181	0.00284	0.000202	-0.00297	-0.00381	-0.00019	-0.00072	-0.00059	-0.0003	0.001097	0.001518	-0.00097
0.000168	0.002222	-0.00161	0.002012	0.000103	-0.00293	-0.00383	-0.00015	-0.00072	-0.00059	-0.00029	0.001098	0.001517	-0.00097
-0.00018	0.001555	-0.00112	0.001142	5.66E-06	-0.00289	-0.00385	-0.00011	-0.00073	-0.00059	-0.00029	0.001099	0.001516	-0.00097
0.000193	0.000103	-0.00044	0.00025	-9.09E-05	-0.00284	-0.00386	-6.45E-05	-0.00074	-0.00059	-0.00029	0.001099	0.001515	-0.00097
0.000219	-0.00138	0.000306	-0.00065	-0.00019	-0.0028	-0.00388	-2.40E-05	-0.00074	-0.00059	-0.00029	0.0011	0.001514	-0.00098
-0.00024	-0.00222	0.000981	-0.00152	-0.00028	-0.00275	-0.00389	1.64E-05	-0.00075	-0.00059	-0.00029	0.001101	0.001513	-0.00098
0.000254	-0.00153	0.001477	-0.00236	-0.00038	-0.0027	-0.0039	5.66E-05	-0.00075	-0.00058	-0.00029	0.001102	0.001511	-0.00098
-0.00026	0.000191	0.001778	-0.00314	-0.00047	-0.00264	-0.00391	9.67E-05	-0.00076	-0.00058	-0.00028	0.001102	0.00151	-0.00099
-0.00012	0.001788	0.00189	-0.00385	-0.00056	-0.00259	-0.00392	0.000137	-0.00077	-0.00058	-0.00028	0.001103	0.001509	-0.00099
0.000245	0.002426	0.001823	-0.00447	-0.00065	-0.00254	-0.00393	0.000176	-0.00077	-0.00058	-0.00028	0.001104	0.001508	-0.00099
-0.00024	0.001735	0.001596	-0.005	-0.00075	-0.00248	-0.00394	0.000216	-0.00078	-0.00058	-0.00028	0.001104	0.001506	-0.00099
0.000226	0.000645	0.001243	-0.00544	-0.00084	-0.00242	-0.00394	0.000255	-0.00079	-0.00058	-0.00028	0.001105	0.001505	-0.001
-0.00022	-0.00015	0.000797	-0.00579	-0.00093	-0.00236	-0.00395	0.000294	-0.00079	-0.00057	-0.00027	0.001106	0.001504	-0.001
-0.00012	-0.00083	0.000294	-0.00604	-0.00102	-0.0023	-0.00395	0.000334	-0.0008	-0.00057	-0.00027	0.001106	0.001503	-0.001
-6.69E-06	-0.00149	-0.00023	-0.00619	-0.00112	-0.00223	-0.00395	0.000372	-0.0008	-0.00057	-0.00027	0.001107	0.001501	-0.00101
0.000106	-0.00217	-0.00074	-0.00624	-0.00121	-0.00216	-0.00395	0.000411	-0.00081	-0.00057	-0.00027	0.001107	0.0015	-0.00101
0.000178	-0.00285	-0.0012	-0.00619	-0.0013	-0.0021	-0.00395	0.000449	-0.00082	-0.00057	-0.00027	0.001108	0.001499	-0.00101
0.000233	-0.0034	-0.00158	-0.00604	-0.0014	-0.00203	-0.00395	0.000488	-0.00082	-0.00057	-0.00027	0.001109	0.001498	-0.00102
-0.00024	-0.00365	-0.00184	-0.00579	-0.00149	-0.00196	-0.00395	0.000526	-0.00083	-0.00056	-0.00026	0.001109	0.001496	-0.00102
0.000123	-0.00376	-0.00195	-0.00544	-0.00158	-0.00188	-0.00395	0.000564	-0.00083	-0.00056	-0.00026	0.00111	0.001495	-0.00102
0.000245	-0.00377	-0.00188	-0.00502	-0.00167	-0.00181	-0.00394	0.000601	-0.00084	-0.00056	-0.00026	0.00111	0.001494	-0.00102
1.57E-05	-0.00366	-0.00167	-0.00453	-0.00176	-0.00174	-0.00394	0.000639	-0.00085	-0.00056	-0.00026	0.001111	0.001492	-0.00103
-0.00023	-0.00309	-0.00135	-0.00398	-0.00185	-0.00166	-0.00393	0.000676	-0.00085	-0.00056	-0.00026	0.001111	0.001491	-0.00103
0.000207	-0.00181	-0.00094	-0.00338	-0.00193	-0.00158	-0.00392	0.000713	-0.00086	-0.00055	-0.00025	0.001112	0.00149	-0.00103
-0.00018	-1.46E-05	-0.00048	-0.00274	-0.00201	-0.0015	-0.00392	0.00075	-0.00086	-0.00055	-0.00025	0.001112	0.001488	-0.00104
-0.00016	0.001725	1.08E-05	-0.00207	-0.00209	-0.00143	-0.00391	0.000787	-0.00087	-0.00055	-0.00025	0.001113	0.001487	-0.00104
0.000123	0.003065	0.0005	-0.00138	-0.00216	-0.00135	-0.0039	0.000823	-0.00087	-0.00055	-0.00025	0.001113	0.001485	-0.00104
-3.24E-05	0.00374	0.000958	-0.00067	-0.00223	-0.00126	-0.00388	0.00086	-0.00088	-0.00055	-0.00025	0.001113	0.001484	-0.00105
-0.00011	0.003976	0.001356	3.01E-05	-0.00229	-0.00118	-0.00387	0.000896	-0.00089	-0.00055	-0.00025	0.001114	0.001483	-0.00105
0.000123	0.004204	0.001666	0.000726	-0.00235	-0.0011	-0.00386	0.000932	-0.00089	-0.00054	-0.00024	0.001114	0.001481	-0.00105
-0.00016	0.004865	0.001857	0.001405	-0.0024	-0.00102	-0.00384	0.000968	-0.0009	-0.00054	-0.00024	0.001115	0.00148	-0.00105
0.000203	0.005356	0.001902	0.002057	-0.00245	-0.00094	-0.00383	0.001003	-0.0009	-0.00054	-0.00024	0.001115	0.001478	-0.00106
4.49E-05	0.00503	0.001781	0.002675	-0.00248	-0.00085	-0.00381	0.001039	-0.00091	-0.00054	-0.00024	0.001115	0.001477	-0.00106
-0.00029	0.00414	0.001517	0.003253	-0.00251	-0.00077	-0.0038	0.001074	-0.00092	-0.00054	-0.00024	0.001116	0.001475	-0.00106
0.000329	0.002938	0.001146	0.003788	-0.00254	-0.00068	-0.00378	0.001109	-0.00092	-0.00054	-0.00023	0.001116	0.001474	-0.00107
0.000117	0.000948	0.000704	0.004276	-0.00255	-0.0006	-0.00376	0.001144	-0.00093	-0.00053	-0.00023	0.001117	0.001472	-0.00107
-0.00037	-0.00181	0.000226	0.004713	-0.00256	-0.00052	-0.00374	0.001178	-0.00093	-0.00053	-0.00023	0.001117	0.001471	-0.00107
0.000396	-0.00456	-0.00025	0.005096	-0.00255	-0.00043	-0.00372	0.001213	-0.00094	-0.00053	-0.00023	0.001117	0.001469	-0.00108
-0.00017	-0.00596	-0.0007	0.005423	-0.00254	-0.00035	-0.0037	0.001247	-0.00094	-0.00053	-0.00023	0.001117	0.001468	-0.00108
-0.00046	-0.00612	-0.00108	0.005692	-0.00252	-0.00026	-0.00368	0.001281	-0.00095	-0.00053	-0.00023	0.001118	0.001466	-0.00108
0.000141	-0.00559	-0.00137	0.005904	-0.00248	-0.00018	-0.00365	0.001315	-0.00096	-0.00053	-0.00022	0.001118	0.001465	-0.00109
0.000572	-0.00483	-0.00157	0.006061	-0.00244	-9.63E-05	-0.00363	0.001348	-0.00096	-0.00052	-0.00022	0.001118	0.001463	-0.00109
0.000348	-0.00417	-0.00169	0.006168	-0.00238	-1.31E-05	-0.00361	0.001382	-0.00097	-0.00052	-0.00022	0.001119	0.001462	-0.00109
9.82E-06	-0.00353	-0.00174	0.006228	-0.00231	6.98E-05	-0.00358	0.001415	-0.00097	-0.00052	-0.00022	0.001119	0.00146	-0.00109
-0.00043	-0.00283	-0.00174	0.006245	-0.00223	0.000153	-0.00355	0.001448	-0.00098	-0.00052	-0.00022	0.001119	0.001459	-0.0011
-0.00092	-0.00199	-0.00168	0.00622	-0.00213	0.000235	-0.00353	0.001481	-0.00098	-0.00052	-0.00022	0.001119	0.001457	-0.0011
-0.00028	-0.00097	-0.00157	0.006152	-0.00203	0.000318	-0.0035	0.001514	-0.00099	-0.00052	-0.00021	0.001119	0.001455	-0.0011
-6.33E-05	0.000156	-0.00142	0.006045	-0.00192	0.0004	-0.00347	0.001546	-0.001	-0.00051	-0.00021	0.00112	0.001454	-0.00111
0.000435	0.001296	-0.00124	0.005899	-0.00179	0.000483	-0.00344	0.001578	-0.001	-0.00051	-0.00021	0.00112	0.001452	-0.00111
0.000706	0.002357	-0.00103	0.005718	-0.00166	0.000565	-0.00342	0.001611	-0.00101	-0.00051	-0.00021	0.00112	0.001451	-0.00111
0.001461	0.003245	-0.0008	0.005502	-0.00152	0.000648	-0.00339	0.001642	-0.00101	-0.00051	-0.00021	0.00112	0.001449	-0.00112
0.00124	0.003895	-0.00055	0.005253	-0.00137	0.000731	-0.00336	0.001674	-0.00102	-0.00051	-0.0002	0.00112	0.001447	-0.00112
-2.26E-06	0.004359	-0.00029	0.004973	-0.00121	0.000813	-0.00332	0.001706	-0.00102	-0.00051	-0.0002	0.00112	0.001446	-0.00112
-0.00081	0.004714	-3.93E-05	0.004665	-0.00105	0.000896	-0.00329	0.001737	-0.00103	-0.0005	-0.0002	0.00112	0.001444	-0.00113
-0.00186	0.00504	0.000211	0.00433	-0.00089	0.000979	-0.00326	0.001768	-0.00103	-0.0005	-0.0002	0.00112	0.001442	-0.00113
-0.00067	0.005389	0.000449	0.00397	-0.00072	0.001062	-0.00323	0.001799	-0.00104	-0.0005	-0.0002	0.001121	0.001441	-0.00113
0.000385	0.005716	0.000668	0.003587	-0.00054	0.001146	-0.00319	0.00183	-0.00104	-0.0005	-0.0002	0.001121	0.001439	-0.00113
0.00086	0.005951	0.000862	0.003181	-0.00037	0.00123	-0.00316	0.00186	-0.00105	-0.0005	-0.00019	0.001121	0.001437	-0.00114
0.001548	0.006023	0.001024	0.002756	-0.00019	0.001314	-0.00313	0.001891	-0.00106	-0.0005	-0.00019	0.001121	0.001436	-0.00114
0.002217	0.00586	0.00115	0.002313	-1.35E-05	0.001398	-0.00309	0.001921	-0.00106	-0.00049	-0.00019	0.001121	0.001434	-0.00114
0.000985	0.005406	0.001241	0.001853	0.000164	0.001483	-0.00306	0.001951	-0.00107	-0.00049	-0.00019	0.001121	0.001432	-0.00115
-0.00014	0.004692	0.0013	0.001378	0.000342	0.001568	-0.00302	0.001981	-0.00107	-0.00049	-0.00019	0.001121	0.00143	-0.00115
-0.00112	0.00377	0.00133	0.000889	0.000517	0.001654	-0.00298	0.00201	-0.00108	-0.00049	-0.00019	0.001121	0.001429	-0.00115
-0.00232	0.002694	0.001337	0.000386	0.000691	0.00174	-0.00295	0.00204	-0.00108	-0.00049	-0.00018	0.001121	0.001427	-0.00116
-0.00235	0.001517	0.001324	-0.00013	0.000861	0.001827	-0.00291	0.002069	-0.00109	-0.00049	-0.00018	0.001121	0.001425	-0.00116
-0.00149	0.000294	0.001291	-0.00066	0.001027	0.001914	-0.00287	0.002098	-0.00109	-0.00048	-0.00018	0.001121	0.001423	-0.00116
-0.00031	-0.00091	0.001237	-0.0012	0.001189	0.002002	-0.00283	0.002127	-0.0011	-0.00048	-0.00018	0.001121	0.001422	-0.00117
0.001432	-0.00204	0.001164	-0.00174	0.001344	0.00209	-0.0028	0.002156	-0.0011	-0.00048	-0.00018	0.00112	0.00142	-0.00117
0.002021	-0.00301	0.001069	-0.00227	0.001494	0.002179	-0.00276	0.002184	-0.00111	-0.00048	-0.00018	0.00112	0.001418	-0.00117
0.002231	-0.00379	0.000952	-0.0028	0.001636	0.002269	-0.00272	0.002212	-0.00111	-0.00048	-0.00017	0.00112	0.001416	-0.00117
0.002234	-0.00434	0.000814	-0.00331	0.001771	0.00236	-0.00268	0.00224	-0.00112	-0.00048	-0.00017	0.00112	0.001414	-0.00118
0.00191	-0.00466	0.000652	-0.00381	0.001897	0.002451	-0.00264	0.002268	-0.00112	-0.00047	-0.00017	0.00112	0.001413	-0.00118
0.001247	-0.00472	0.000468	-0.00429	0.002013	0.002543	-0.0026	0.002296	-0.00113	-0.00047	-0.00017	0.00112	0.001411	-0.00118
0.000234	-0.00453	0.000261	-0.00474	0.002118	0.002636	-0.00256	0.002323	-0.00113	-0.00047	-0.00017	0.00112	0.001409	-0.00119
-0.00144	-0.0041	4.39E-05	-0.00517	0.002213	0.00273	-0.00252	0.002351	-0.00114	-0.00047	-0.00017	0.001119	0.001407	-0.00119
-0.00196	-0.00341	-0.00018	-0.00555	0.002295	0.002824	-0.00248	0.002378	-0.00114	-0.00047	-0.00016	0.001119	0.001405	-0.00119
-0.00121	-0.0025	-0.00039	-0.0059	0.002365	0.00292	-0.00244	0.002405	-0.00115	-0.00047	-0.00016	0.001119	0.001403	-0.0012
-0.00047	-0.00142	-0.00059	-0.00621	0.002421	0.003017	-0.00239	0.002432	-0.00115	-0.00046	-0.00016	0.001119	0.001401	-0.0012
0.000739	-0.00027	-0.00076	-0.00646	0.002463	0.003114	-0.00235	0.002458	-0.00116	-0.00046	-0.00016	0.001119	0.001399	-0.0012
0.001671	0.000898	-0.0009	-0.00666	0.00249	0.003213	-0.00231	0.002484	-0.00116	-0.00046	-0.00016	0.001118	0.001397	-0.00121

0.001588	0.001972	-0.00101	-0.00681	0.002501	0.003312	-0.00227	0.002511	-0.00117	-0.00046	-0.00016	0.001118	0.001396	-0.00121
0.000503	0.00283	-0.00106	-0.00689	0.002495	0.003413	-0.00223	0.002537	-0.00117	-0.00046	-0.00015	0.001118	0.001394	-0.00121
-0.00047	0.003367	-0.00105	-0.00691	0.002472	0.003515	-0.00218	0.002562	-0.00118	-0.00046	-0.00015	0.001118	0.001392	-0.00122
-0.00135	0.003484	-0.00097	-0.00686	0.002433	0.003617	-0.00214	0.002588	-0.00118	-0.00045	-0.00015	0.001117	0.00139	-0.00122
-0.00127	0.003122	-0.0008	-0.00675	0.002379	0.00372	-0.0021	0.002613	-0.00119	-0.00045	-0.00015	0.001117	0.001388	-0.00122
-0.0009	0.002364	-0.00057	-0.00659	0.00231	0.003823	-0.00206	0.002639	-0.00119	-0.00045	-0.00015	0.001117	0.001386	-0.00122
-0.00025	0.001345	-0.00029	-0.00638	0.002228	0.003926	-0.00201	0.002664	-0.0012	-0.00045	-0.00015	0.001116	0.001384	-0.00123
0.000469	0.000201	1.83E-05	-0.00612	0.002132	0.004029	-0.00197	0.002688	-0.0012	-0.00045	-0.00015	0.001116	0.001382	-0.00123
0.00095	-0.00093	0.000322	-0.00583	0.002024	0.004131	-0.00193	0.002713	-0.0012	-0.00045	-0.00014	0.001116	0.00138	-0.00123
0.000676	-0.00192	0.0006	-0.0055	0.001905	0.004233	-0.00188	0.002738	-0.00121	-0.00044	-0.00014	0.001115	0.001378	-0.00124
0.000309	-0.00258	0.000828	-0.00514	0.001776	0.004334	-0.00184	0.002762	-0.00121	-0.00044	-0.00014	0.001115	0.001376	-0.00124
-0.00072	-0.00272	0.000981	-0.00476	0.001636	0.004435	-0.0018	0.002786	-0.00122	-0.00044	-0.00014	0.001114	0.001374	-0.00124
-0.00048	-0.00222	0.001047	-0.00436	0.001488	0.004534	-0.00175	0.00281	-0.00122	-0.00044	-0.00014	0.001114	0.001372	-0.00125
-1.35E-05	-0.00125	0.001031	-0.00394	0.001331	0.004632	-0.00171	0.002833	-0.00123	-0.00044	-0.00014	0.001113	0.00137	-0.00125
0.00032	-8.53E-05	0.000943	-0.00351	0.001167	0.004728	-0.00167	0.002857	-0.00123	-0.00044	-0.00013	0.001113	0.001367	-0.00125
0.000456	0.001039	0.000798	-0.00308	0.000996	0.004823	-0.00162	0.00288	-0.00124	-0.00043	-0.00013	0.001113	0.001365	-0.00126
-0.00029	0.00188	0.000608	-0.00265	0.00082	0.004915	-0.00158	0.002903	-0.00124	-0.00043	-0.00013	0.001112	0.001363	-0.00126
-0.00034	0.002285	0.000378	-0.00224	0.000638	0.005006	-0.00154	0.002926	-0.00125	-0.00043	-0.00013	0.001112	0.001361	-0.00126
-9.64E-05	0.00224	0.000119	-0.00183	0.000453	0.005094	-0.00149	0.002949	-0.00125	-0.00043	-0.00013	0.001111	0.001359	-0.00127
0.000234	0.001838	-0.00016	-0.00143	0.000263	0.005179	-0.00145	0.002971	-0.00125	-0.00043	-0.00013	0.00111	0.001357	-0.00127
-0.00019	0.001189	-0.00044	-0.00105	7.16E-05	0.005262	-0.00141	0.002994	-0.00126	-0.00043	-0.00013	0.00111	0.001355	-0.00127
-1.26E-05	0.000152	-0.00071	-0.00068	-0.00012	0.005342	-0.00136	0.003016	-0.00126	-0.00042	-0.00012	0.001109	0.001353	-0.00128
0.000108	-0.00105	-0.00094	-0.00033	-0.00032	0.005419	-0.00132	0.003038	-0.00127	-0.00042	-0.00012	0.001109	0.00135	-0.00128
-7.92E-05	-0.00198	-0.00112	6.92E-06	-0.00051	0.005492	-0.00128	0.00306	-0.00127	-0.00042	-0.00012	0.001108	0.001348	-0.00128
6.01E-05	-0.00195	-0.00123	0.000324	-0.00071	0.005562	-0.00124	0.003081	-0.00128	-0.00042	-0.00012	0.001108	0.001346	-0.00128
3.10E-05	-0.0014	-0.00127	0.00062	-0.0009	0.005628	-0.00119	0.003103	-0.00128	-0.00042	-0.00012	0.001107	0.001344	-0.00129
-5.79E-05	-0.00093	-0.00123	0.000895	-0.00109	0.00569	-0.00115	0.003124	-0.00128	-0.00042	-0.00012	0.001106	0.001342	-0.00129
7.67E-05	-0.00043	-0.00113	0.001149	-0.00128	0.005748	-0.00111	0.003145	-0.00129	-0.00041	-0.00011	0.001106	0.00134	-0.00129
-0.00011	0.000252	-0.00097	0.001386	-0.00146	0.005802	-0.00107	0.003166	-0.00129	-0.00041	-0.00011	0.001105	0.001337	-0.0013
0.000176	0.000535	-0.00077	0.001611	-0.00164	0.005851	-0.00103	0.003186	-0.0013	-0.00041	-0.00011	0.001104	0.001335	-0.0013
0.000192	0.00075	-0.00054	0.001831	-0.00182	0.005896	-0.00098	0.003207	-0.0013	-0.00041	-0.00011	0.001104	0.001333	-0.0013
-0.00015	0.000998	-0.00028	0.002051	-0.00199	0.005935	-0.00094	0.003227	-0.0013	-0.00041	-0.00011	0.001103	0.001331	-0.00131
-0.00028	0.00131	-2.47E-06	0.002276	-0.00215	0.00597	-0.0009	0.003247	-0.00131	-0.00041	-0.00011	0.001102	0.001328	-0.00131
0.00026	0.001657	0.000276	0.002509	-0.0023	0.005999	-0.00086	0.003267	-0.00131	-0.0004	-0.00011	0.001102	0.001326	-0.00131
0.00034	0.001533	0.000553	0.002753	-0.00245	0.006022	-0.00082	0.003287	-0.00132	-0.0004	-0.0001	0.001101	0.001324	-0.00132
-0.00017	0.000552	0.000831	0.003013	-0.00258	0.00604	-0.00078	0.003306	-0.00132	-0.0004	-0.0001	0.0011	0.001321	-0.00132
-0.00018	-0.00074	0.001105	0.003289	-0.00271	0.006052	-0.00074	0.003325	-0.00132	-0.0004	-0.0001	0.001099	0.001319	-0.00132
-0.00035	-0.00158	0.001368	0.003586	-0.00283	0.006058	-0.0007	0.003344	-0.00133	-0.0004	-9.99E-05	0.001098	0.001317	-0.00133
0.000332	-0.00134	0.001604	0.003906	-0.00293	0.006057	-0.00066	0.003363	-0.00133	-0.0004	-9.85E-05	0.001098	0.001315	-0.00133
-0.0003	-0.00015	0.001773	0.00425	-0.00302	0.00605	-0.00062	0.003382	-0.00134	-0.00039	-9.71E-05	0.001097	0.001312	-0.00133
-0.00029	0.001092	0.001822	0.004622	-0.0031	0.006036	-0.00059	0.003401	-0.00134	-0.00039	-9.56E-05	0.001096	0.00131	-0.00134
0.000233	0.001542	0.001707	0.005021	-0.00316	0.006015	-0.00055	0.003419	-0.00134	-0.00039	-9.42E-05	0.001095	0.001308	-0.00134
-0.0002	0.000675	0.001407	0.00543	-0.00321	0.005987	-0.00051	0.003437	-0.00135	-0.00039	-9.28E-05	0.001094	0.001305	-0.00134
0.000181	-0.00065	0.000955	0.005825	-0.00325	0.005952	-0.00047	0.003455	-0.00135	-0.00039	-9.14E-05	0.001093	0.001303	-0.00135
-0.00017	-0.00141	0.000392	0.006185	-0.00327	0.005909	-0.00044	0.003473	-0.00135	-0.00039	-9.00E-05	0.001093	0.0013	-0.00135
1.18E-06	-0.00155	-0.00024	0.006489	-0.00327	0.005859	-0.0004	0.003491	-0.00136	-0.00039	-8.86E-05	0.001092	0.001298	-0.00135
0.000115	-0.00134	-0.0009	0.006718	-0.00325	0.0058	-0.00036	0.003508	-0.00136	-0.00038	-8.72E-05	0.001091	0.001296	-0.00136
0.000164	-0.00104	-0.0015	0.006852	-0.00321	0.005735	-0.00033	0.003525	-0.00136	-0.00038	-8.58E-05	0.00109	0.001293	-0.00136
6.75E-05	-0.00073	-0.00197	0.006872	-0.00316	0.005662	-0.00029	0.003542	-0.00137	-0.00038	-8.44E-05	0.001089	0.001291	-0.00136
-2.76E-05	-0.00037	-0.00226	0.006759	-0.00309	0.005581	-0.00026	0.003559	-0.00137	-0.00038	-8.31E-05	0.001088	0.001288	-0.00136
-0.00016	4.53E-05	-0.00233	0.0065	-0.003	0.005494	-0.00022	0.003576	-0.00137	-0.00038	-8.17E-05	0.001087	0.001286	-0.00137
0.000148	0.000538	-0.00217	0.006103	-0.00289	0.0054	-0.00019	0.003592	-0.00138	-0.00038	-8.03E-05	0.001086	0.001283	-0.00137
-0.00013	0.0013	-0.00179	0.005581	-0.00277	0.0053	-0.00016	0.003608	-0.00138	-0.00037	-7.90E-05	0.001085	0.001281	-0.00137
0.000108	0.001728	-0.00119	0.00495	-0.00264	0.005194	-0.00012	0.003624	-0.00138	-0.00037	-7.76E-05	0.001084	0.001278	-0.00138
-8.90E-05	0.001148	-0.00038	0.004228	-0.00248	0.005081	-8.82E-05	0.00364	-0.00139	-0.00037	-7.62E-05	0.001083	0.001276	-0.00138
7.64E-05	6.55E-05	0.000525	0.003434	-0.00232	0.004962	-5.52E-05	0.003656	-0.00139	-0.00037	-7.49E-05	0.001082	0.001273	-0.00138
-7.31E-05	-0.00084	0.00141	0.002589	-0.00214	0.004838	-2.25E-05	0.003671	-0.00139	-0.00037	-7.36E-05	0.001081	0.001271	-0.00139
-4.47E-05	-0.00155	0.002154	0.00171	-0.00194	0.004709	9.75E-06	0.003687	-0.0014	-0.00037	-7.22E-05	0.00108	0.001268	-0.00139
9.44E-05	-0.00191	0.002648	0.000809	-0.00174	0.004574	4.17E-05	0.003702	-0.0014	-0.00036	-7.09E-05	0.001078	0.001266	-0.00139
0.000109	-0.00172	0.002831	-0.0001	-0.00152	0.004434	7.33E-05	0.003717	-0.0014	-0.00036	-6.96E-05	0.001077	0.001263	-0.0014
-0.00012	-0.001	0.002729	-0.00102	-0.00129	0.004289	0.000105	0.003731	-0.00141	-0.00036	-6.83E-05	0.001076	0.001261	-0.0014
-0.00015	0.000143	0.002382	-0.00191	-0.00105	0.00414	0.000136	0.003746	-0.00141	-0.00036	-6.69E-05	0.001075	0.001258	-0.0014
0.000141	0.001414	0.00185	-0.00277	-0.0008	0.003986	0.000166	0.00376	-0.00141	-0.00036	-6.56E-05	0.001074	0.001256	-0.00141
0.000189	0.002079	0.001185	-0.00357	-0.00054	0.003827	0.000196	0.003775	-0.00142	-0.00036	-6.43E-05	0.001073	0.001253	-0.00141
-0.0002	0.001566	0.000425	-0.00429	-0.00027	0.003665	0.000226	0.003789	-0.00142	-0.00036	-6.30E-05	0.001072	0.00125	-0.00141
0.000216	0.000493	-0.00038	-0.00492	8.84E-06	0.003499	0.000256	0.003802	-0.00142	-0.00035	-6.17E-05	0.00107	0.001248	-0.00142
-0.00023	-0.00035	-0.00119	-0.00542	0.000294	0.00333	0.000285	0.003816	-0.00142	-0.00035	-6.05E-05	0.001069	0.001245	-0.00142
-9.63E-05	-0.00094	-0.00195	-0.00578	0.000587	0.003156	0.000314	0.003829	-0.00143	-0.00035	-5.92E-05	0.001068	0.001242	-0.00142
0.000258	-0.00131	-0.00262	-0.00598	0.000886	0.00298	0.000343	0.003843	-0.00143	-0.00035	-5.79E-05	0.001067	0.00124	-0.00143
-0.00023	-0.00148	-0.00313	-0.00599	0.001191	0.002801	0.000371	0.003856	-0.00143	-0.00035	-5.66E-05	0.001065	0.001237	-0.00143
-0.00031	-0.00163	-0.00344	-0.00581	0.001502	0.002619	0.000399	0.003868	-0.00143	-0.00035	-5.54E-05	0.001064	0.001235	-0.00143
0.000338	-0.00187	-0.00349	-0.00541	0.001814	0.002434	0.000427	0.003881	-0.00144	-0.00034	-5.41E-05	0.001063	0.001232	-0.00144
0.000397	-0.00212	-0.00325	-0.0048	0.002125	0.002247	0.000454	0.003894	-0.00144	-0.00034	-5.29E-05	0.001061	0.001229	-0.00144
0.000239	-0.00223	-0.00268	-0.00403	0.002431	0.002057	0.000481	0.003906	-0.00144	-0.00034	-5.16E-05	0.00106	0.001226	-0.00144
-7.03E-05	-0.00211	-0.0018	-0.00313	0.002728	0.001866	0.000508	0.003918	-0.00145	-0.00034	-5.04E-05	0.001059	0.001224	-0.00145
-0.00056	-0.00168	-0.00071	-0.00213	0.003014	0.001673	0.000535	0.00393	-0.00145	-0.00034	-4.91E-05	0.001057	0.001221	-0.00145
2.16E-05	-0.00094	0.000472	-0.00108	0.003284	0.001478	0.000561	0.003942	-0.00145	-0.00034	-4.79E-05	0.001056	0.001218	-0.00145
0.000138	-1.16E-05	0.00164	-6.60E-06	0.003535	0.001282	0.000586	0.003953	-0.00145	-0.00033	-4.67E-05	0.001055	0.001216	-0.00146
0.000735	0.000916	0.00268	0.00104	0.003763	0.001084	0.000612	0.003964	-0.00146	-0.00033	-4.55E-05	0.001053	0.001213	-0.00146
-0.00051	0.001667	0.003479	0.002025	0.003966	0.000886	0.000637	0.003976	-0.00146	-0.00033	-4.43E-05	0.001052	0.00121	-0.00146
-0.00083	0.002085	0.003924	0.002911	0.004139	0.000687	0.000662	0.003986	-0.00146	-0.00033	-4.31E-05	0.00105	0.001207	-0.00147
-0.00038	0.002038	0.003924	0.00366	0.00428	0.000487	0.000686	0.003997	-0.00146	-0.00033	-4.19E-05	0.001049	0.001204	-0.00147
0.00091	0.001492	0.003484	0.004238	0.004384	0.000287	0.000711	0.004008	-0.00146	-0.00033	-4.07E-05	0.001047	0.001202	-0.00147
1.66E-05	0.000535	0.002695	0.00464	0.004448	8.70E-05	0.000735	0.004018	-0.00147	-0.00033	-3.95E-05	0.001046	0.001199	-0.00148
-0.00019	-0.00055	0.001659	0.004876	0.004468	-0.00011	0.000758	0.004028	-0.00147	-0.00032	-3.83E-05	0.001044	0.001196	-0.00148
-0.00075	-0.00144	0.000472	0.004961	0.004442	-0.00031	0.000781	0.004038	-0.00147	-0.00032	-3.71E-05	0.001043	0.001193	-0.00148
-0.00098	-0.00181	-0.00077	0.004907	0.004366	-0.00051	0.000804	0.004048	-0.00147	-0.00032	-3.60E-05	0.001041	0.00119	-0.00149
-7.22E-05	-0.00144	-0.00197	0.004725	0.004241	-0.00071	0.000827	0.004058	-0.00147	-0.00032	-3.48E-05	0.00104	0.001187	-0.00149
0.000252	-0.00057	-0.00303	0.004422	0.004068	-0.00091	0.00085	0.004067	-0.00148	-0.00032	-3.36E-05	0.001038	0.001185	-0.00149
0.000541	0.000463	-0.00385	0.004006	0.003851	-0.0011	0.000872	0.004077	-0.00148	-0.00032	-3.25E-05	0.001037	0.001182	-0.0015
0.000927	0.001276	-0.0043	0.003482	0.003595	-0.0013	0.000893	0.004086	-0.00148	-0.00031	-3.13E-05	0.001035	0.001179	-0.0015
0.000475	0.001556	-0.00426	0.002858	0.003302	-0.00149	0.000915	0.004094	-0.00148	-0.00031	-3.02E-05	0.001034	0.001176	-0.0015
-0.00043	0.001261	-0.00369	0.002145	0.002975	-0.00169	0.000936	0.004103	-0.00148	-0.00031	-2.91E-05	0.001032	0.001173	-0.00151

-0.00084	0.000545	-0.00269	0.001363	0.002619	-0.00188	0.000957	0.004112	-0.00149	-0.00031	-2.79E-05	0.00103	0.00117	-0.00151
5.38E-05	-0.00036	-0.0014	0.000542	0.002236	-0.00207	0.000978	0.00412	-0.00149	-0.00031	-2.68E-05	0.001029	0.001167	-0.00151
0.000784	-0.0011	6.71E-06	-0.00029	0.00183	-0.00226	0.000998	0.004128	-0.00149	-0.00031	-2.57E-05	0.001027	0.001164	-0.00152
0.000669	-0.00135	0.001367	-0.0011	0.001404	-0.00244	0.001018	0.004136	-0.00149	-0.00031	-2.46E-05	0.001025	0.001161	-0.00152
2.73E-05	-0.00114	0.00254	-0.00185	0.000963	-0.00262	0.001038	0.004144	-0.00149	-0.0003	-2.35E-05	0.001024	0.001158	-0.00152
-0.00075	-0.00063	0.003477	-0.00251	0.000509	-0.00281	0.001057	0.004151	-0.00149	-0.0003	-2.24E-05	0.001022	0.001155	-0.00153
-0.00056	-8.90E-06	0.00415	-0.00307	4.56E-05	-0.00298	0.001076	0.004159	-0.0015	-0.0003	-2.13E-05	0.00102	0.001152	-0.00153
-9.84E-05	0.000593	0.00453	-0.00348	-0.00042	-0.00316	0.001095	0.004166	-0.0015	-0.0003	-2.02E-05	0.001018	0.001149	-0.00153
0.000772	0.001046	0.004592	-0.00373	-0.0009	-0.00333	0.001114	0.004173	-0.0015	-0.0003	-1.91E-05	0.001017	0.001146	-0.00154
0.000508	0.001246	0.004345	-0.00381	-0.00137	-0.00351	0.001132	0.00418	-0.0015	-0.0003	-1.81E-05	0.001015	0.001143	-0.00154
-0.00012	0.001184	0.003854	-0.00375	-0.00183	-0.00367	0.00115	0.004186	-0.0015	-0.0003	-1.70E-05	0.001013	0.00114	-0.00154
-0.00038	0.000892	0.003183	-0.00355	-0.00229	-0.00384	0.001168	0.004193	-0.0015	-0.00029	-1.59E-05	0.001011	0.001137	-0.00155
-0.00076	0.000418	0.002379	-0.00325	-0.00273	-0.004	0.001186	0.004199	-0.0015	-0.00029	-1.49E-05	0.001009	0.001134	-0.00155
-0.00014	-0.00017	0.001488	-0.00285	-0.00315	-0.00416	0.001203	0.004205	-0.00151	-0.00029	-1.38E-05	0.001007	0.001131	-0.00155
0.000308	-0.00075	0.000555	-0.00237	-0.00355	-0.00431	0.00122	0.004211	-0.00151	-0.00029	-1.28E-05	0.001006	0.001128	-0.00156
0.000605	-0.00116	-0.00037	-0.00184	-0.00392	-0.00446	0.001236	0.004217	-0.00151	-0.00029	-1.18E-05	0.001004	0.001125	-0.00156
0.000598	-0.00127	-0.00126	-0.00128	-0.00426	-0.00461	0.001253	0.004222	-0.00151	-0.00029	-1.07E-05	0.001002	0.001122	-0.00156
0.000157	-0.00107	-0.0021	-0.00069	-0.00457	-0.00475	0.001269	0.004227	-0.00151	-0.00028	-9.71E-06	0.001	0.001119	-0.00157
-0.00011	-0.00065	-0.00285	-9.40E-05	-0.00485	-0.00489	0.001285	0.004232	-0.00151	-0.00028	-8.69E-06	0.000998	0.001116	-0.00157
-0.00013	-0.00011	-0.00349	0.000486	-0.00509	-0.00502	0.0013	0.004237	-0.00151	-0.00028	-7.68E-06	0.000996	0.001112	-0.00157
-0.00015	0.000494	-0.00401	0.001036	-0.00528	-0.00515	0.001315	0.004242	-0.00151	-0.00028	-6.68E-06	0.000994	0.001109	-0.00158
-0.00013	0.001045	-0.0044	0.00154	-0.00544	-0.00527	0.00133	0.004247	-0.00151	-0.00028	-5.69E-06	0.000992	0.001106	-0.00158
5.16E-05	0.001306	-0.00467	0.001983	-0.00554	-0.00539	0.001345	0.004251	-0.00151	-0.00028	-4.70E-06	0.00099	0.001103	-0.00158
-6.54E-05	0.001023	-0.00478	0.002353	-0.0056	-0.00551	0.00136	0.004255	-0.00152	-0.00028	-3.71E-06	0.000988	0.0011	-0.00159
0.000128	0.000154	-0.0047	0.002641	-0.00561	-0.00561	0.001374	0.004259	-0.00152	-0.00027	-2.74E-06	0.000986	0.001097	-0.00159
7.89E-05	-0.0008	-0.00436	0.002842	-0.00556	-0.00572	0.001388	0.004263	-0.00152	-0.00027	-1.77E-06	0.000984	0.001093	-0.00159
-0.00032	-0.00127	-0.00373	0.002957	-0.00546	-0.00582	0.001401	0.004266	-0.00152	-0.00027	-8.06E-07	0.000982	0.00109	-0.0016
0.000388	-0.00087	-0.00279	0.002984	-0.00529	-0.00591	0.001415	0.00427	-0.00152	-0.00027	1.50E-07	0.00098	0.001087	-0.0016
0.000104	3.51E-06	-0.00164	0.002924	-0.00507	-0.006	0.001428	0.004273	-0.00152	-0.00027	1.10E-06	0.000978	0.001084	-0.0016
-0.00027	0.000854	-0.00035	0.00278	-0.00478	-0.00609	0.001441	0.004276	-0.00152	-0.00027	2.04E-06	0.000976	0.00108	-0.00161
-0.00042	0.001152	0.000978	0.002559	-0.00443	-0.00617	0.001453	0.004279	-0.00152	-0.00027	2.98E-06	0.000973	0.001077	-0.00161
0.000402	0.000552	0.002249	0.002268	-0.00404	-0.00624	0.001466	0.004282	-0.00152	-0.00026	3.91E-06	0.000971	0.001074	-0.00161
0.000306	-0.00037	0.003341	0.001915	-0.00359	-0.00631	0.001478	0.004284	-0.00152	-0.00026	4.83E-06	0.000969	0.001071	-0.00162
-0.00028	-0.00102	0.004152	0.001507	-0.00311	-0.00638	0.00149	0.004286	-0.00152	-0.00026	5.75E-06	0.000967	0.001067	-0.00162
-0.00038	-0.00097	0.004604	0.001051	-0.00259	-0.00644	0.001501	0.004288	-0.00152	-0.00026	6.66E-06	0.000965	0.001064	-0.00162
-2.22E-05	-0.00041	0.004699	0.000559	-0.00204	-0.0065	0.001513	0.00429	-0.00152	-0.00026	7.56E-06	0.000963	0.001061	-0.00163
0.00037	0.000261	0.004447	4.56E-05	-0.00147	-0.00656	0.001524	0.004292	-0.00152	-0.00026	8.45E-06	0.00096	0.001057	-0.00163
-0.00018	0.000662	0.003851	-0.00047	-0.00088	-0.00661	0.001535	0.004294	-0.00152	-0.00026	9.34E-06	0.000958	0.001054	-0.00163
-0.00035	0.000756	0.002964	-0.00098	-0.00029	-0.00665	0.001545	0.004295	-0.00152	-0.00025	1.02E-05	0.000956	0.001051	-0.00164
-0.00012	0.000635	0.001854	-0.00145	0.000315	-0.0067	0.001556	0.004296	-0.00152	-0.00025	1.11E-05	0.000954	0.001047	-0.00164
8.20E-05	0.000322	0.000605	-0.00188	0.000912	-0.00674	0.001566	0.004297	-0.00152	-0.00025	1.20E-05	0.000951	0.001044	-0.00164
0.000187	-0.0001	-0.00069	-0.00225	0.001499	-0.00678	0.001576	0.004298	-0.00152	-0.00025	1.28E-05	0.000949	0.00104	-0.00165
0.000243	-0.00048	-0.00194	-0.00253	0.00207	-0.00681	0.001585	0.004299	-0.00152	-0.00025	1.37E-05	0.000947	0.001037	-0.00165
-0.00021	-0.00056	-0.00306	-0.00273	0.002617	-0.00684	0.001595	0.004299	-0.00152	-0.00025	1.45E-05	0.000944	0.001034	-0.00165
0.000177	-6.47E-05	-0.00394	-0.00281	0.003137	-0.00687	0.001604	0.004299	-0.00152	-0.00025	1.54E-05	0.000942	0.00103	-0.00166
-0.00015	0.00052	-0.0044	-0.00278	0.003625	-0.0069	0.001613	0.004299	-0.00152	-0.00024	1.62E-05	0.00094	0.001027	-0.00166
0.000128	0.00013	-0.00427	-0.00261	0.00408	-0.00692	0.001622	0.004299	-0.00152	-0.00024	1.70E-05	0.000937	0.001023	-0.00166
-6.00E-05	-0.00051	-0.00362	-0.00232	0.0045	-0.00695	0.00163	0.004299	-0.00152	-0.00024	1.78E-05	0.000935	0.00102	-0.00167
-9.12E-05	-0.00045	-0.00257	-0.00193	0.004886	-0.00697	0.001638	0.004298	-0.00152	-0.00024	1.87E-05	0.000932	0.001016	-0.00167
7.66E-05	0.000313	-0.00134	-0.00147	0.005235	-0.00698	0.001646	0.004297	-0.00152	-0.00024	1.95E-05	0.00093	0.001013	-0.00168
7.67E-05	0.000549	-0.00015	-0.00095	0.005547	-0.007	0.001654	0.004297	-0.00152	-0.00024	2.03E-05	0.000927	0.001009	-0.00168
-6.71E-05	-6.34E-05	0.000809	-0.00039	0.005821	-0.00701	0.001661	0.004295	-0.00152	-0.00024	2.11E-05	0.000925	0.001006	-0.00168
8.29E-05	-0.00059	0.001504	0.000187	0.006055	-0.00702	0.001669	0.004294	-0.00152	-0.00023	2.18E-05	0.000922	0.001002	-0.00169
-0.00012	-0.00062	0.001999	0.000764	0.006249	-0.00703	0.001676	0.004293	-0.00152	-0.00023	2.26E-05	0.00092	0.000999	-0.00169
0.000189	-0.00038	0.002387	0.00132	0.006401	-0.00704	0.001682	0.004291	-0.00152	-0.00023	2.34E-05	0.000917	0.000995	-0.00169
-0.00029	0.00038	0.002711	0.001836	0.006511	-0.00705	0.001689	0.004289	-0.00151	-0.00023	2.42E-05	0.000915	0.000992	-0.0017
0.000422	0.000696	0.003006	0.002292	0.006577	-0.00706	0.001695	0.004287	-0.00151	-0.00023	2.49E-05	0.000912	0.000988	-0.0017
0.000321	0.000334	0.003284	0.002668	0.006598	-0.00706	0.001701	0.004285	-0.00151	-0.00023	2.57E-05	0.00091	0.000985	-0.0017
-0.0004	-0.00031	0.003488	0.002945	0.006574	-0.00707	0.001707	0.004283	-0.00151	-0.00023	2.64E-05	0.000907	0.000981	-0.00171
-0.00089	-0.00077	0.00354	0.003103	0.006502	-0.00707	0.001713	0.00428	-0.00151	-0.00022	2.71E-05	0.000904	0.000977	-0.00171
-0.00114	-0.00066	0.003371	0.003126	0.006385	-0.00707	0.001718	0.004277	-0.00151	-0.00022	2.79E-05	0.000902	0.000974	-0.00171
-2.73E-05	2.44E-05	0.002965	0.003024	0.006225	-0.00708	0.001724	0.004274	-0.00151	-0.00022	2.86E-05	0.000899	0.00097	-0.00172
0.001532	0.000705	0.002364	0.002814	0.006027	-0.00708	0.001729	0.004271	-0.00151	-0.00022	2.93E-05	0.000896	0.000967	-0.00172
0.001244	0.000852	0.00162	0.002511	0.005793	-0.00708	0.001734	0.004268	-0.00151	-0.00022	3.00E-05	0.000894	0.000963	-0.00172
0.000182	0.000545	0.000784	0.00213	0.005527	-0.00708	0.001738	0.004264	-0.00151	-0.00022	3.07E-05	0.000891	0.000959	-0.00173
-0.00022	6.27E-06	-8.10E-05	0.001687	0.005235	-0.00707	0.001742	0.004261	-0.0015	-0.00022	3.14E-05	0.000888	0.000956	-0.00173
-0.0012	-0.00055	-0.00091	0.001198	0.004919	-0.00707	0.001747	0.004257	-0.0015	-0.00021	3.21E-05	0.000886	0.000952	-0.00173
-0.00233	-0.0009	-0.00163	0.00068	0.004583	-0.00707	0.001751	0.004253	-0.0015	-0.00021	3.27E-05	0.000883	0.000948	-0.00174
-0.00162	-0.00089	-0.00218	0.000147	0.004231	-0.00706	0.001754	0.004248	-0.0015	-0.00021	3.34E-05	0.00088	0.000944	-0.00174
0.000142	-0.00061	-0.0025	-0.00039	0.003867	-0.00706	0.001758	0.004244	-0.0015	-0.00021	3.41E-05	0.000877	0.000941	-0.00174
0.001346	-0.00022	-0.00259	-0.0009	0.003494	-0.00705	0.001761	0.004239	-0.0015	-0.00021	3.47E-05	0.000875	0.000937	-0.00175
0.002645	0.000169	-0.0025	-0.00138	0.003118	-0.00704	0.001764	0.004234	-0.0015	-0.00021	3.54E-05	0.000872	0.000933	-0.00175
0.001097	0.00046	-0.00225	-0.00184	0.00274	-0.00703	0.001767	0.004229	-0.00149	-0.00021	3.60E-05	0.000869	0.00093	-0.00175
-0.00011	0.000651	-0.00188	-0.00225	0.002366	-0.00702	0.00177	0.004224	-0.00149	-0.00021	3.66E-05	0.000866	0.000926	-0.00176
-0.00199	0.000762	-0.0014	-0.00263	0.001999	-0.00701	0.001772	0.004219	-0.00149	-0.0002	3.72E-05	0.000863	0.000922	-0.00176
-0.00261	0.000813	-0.00087	-0.00295	0.001643	-0.007	0.001775	0.004213	-0.00149	-0.0002	3.79E-05	0.00086	0.000918	-0.00177
-0.00073	0.000821	-0.00031	-0.00323	0.001302	-0.00699	0.001777	0.004207	-0.00149	-0.0002	3.85E-05	0.000857	0.000914	-0.00177
0.000217	0.000783	0.000244	-0.00345	0.000979	-0.00697	0.001778	0.004201	-0.00148	-0.0002	3.91E-05	0.000854	0.000911	-0.00177
0.000863	0.000696	0.000753	-0.00361	0.000678	-0.00696	0.00178	0.004195	-0.00148	-0.0002	3.97E-05	0.000851	0.000907	-0.00178
0.001554	0.000557	0.001175	-0.00371	0.000404	-0.00694	0.001782	0.004189	-0.00148	-0.0002	4.02E-05	0.000848	0.000903	-0.00178
0.002117	0.00036	0.001473	-0.00372	0.000159	-0.00692	0.001783	0.004182	-0.00148	-0.0002	4.08E-05	0.000845	0.000899	-0.00178
0.001446	9.35E-05	0.001635	-0.00366	-5.49E-05	-0.0069	0.001784	0.004176	-0.00148	-0.00019	4.14E-05	0.000842	0.000895	-0.00179
0.000812	-0.00019	0.001655	-0.0035	-0.00024	-0.00688	0.001785	0.004169	-0.00147	-0.00019	4.20E-05	0.000839	0.000891	-0.00179
0.000141	-0.00043	0.001535	-0.00324	-0.0004	-0.00686	0.001786	0.004162	-0.00147	-0.00019	4.25E-05	0.000836	0.000887	-0.00179
-0.00095	-0.00056	0.00129	-0.00287	-0.00053	-0.00684	0.001786	0.004155	-0.00147	-0.00019	4.31E-05	0.000833	0.000884	-0.0018
-0.0013	-0.0005	0.000941	-0.00243	-0.00065	-0.00682	0.001786	0.004147	-0.00147	-0.00019	4.36E-05	0.00083	0.00088	-0.0018
-0.00045	-0.00022	0.000511	-0.00192	-0.00075	-0.00679	0.001786	0.00414	-0.00146	-0.00019	4.41E-05	0.000827	0.000876	-0.0018
-0.00031	0.00013	3.20E-05	-0.00135	-0.00083	-0.00677	0.001786	0.004132	-0.00146	-0.00019	4.46E-05	0.000824	0.000872	-0.00181
0.000398	0.00039	-0.00046	-0.00075	-0.0009	-0.00674	0.001786	0.004124	-0.00146	-0.00019	4.52E-05	0.000821	0.000868	-0.00181
0.000597	0.000386	-0.00091	-0.00014	-0.00096	-0.00671	0.001786	0.004116	-0.00146	-0.00018	4.57E-05	0.000818	0.000864	-0.00181
-0.00044	7.66E-05	-0.00124	0.000456	-0.00102	-0.00669	0.001785	0.004107	-0.00145	-0.00018	4.62E-05	0.000815	0.00086	-0.00182
-0.00032	-0.00021	-0.0014	0.001025	-0.00107	-0.00666	0.001784	0.004099	-0.00145	-0.00018	4.67E-05	0.000811	0.000856	-0.00182
0.000175	-0.00027	-0.0013	0.001546	-0.00112	-0.00662	0.001783	0.00409	-0.00145	-0.00018	4.71E-05	0.000808	0.000852	-0.00182

-9.59E-05	-9.76E-05	-0.00092	0.002006	-0.00117	-0.00659	0.001782	0.004081	-0.00145	-0.00018	4.76E-05	0.000805	0.000848	-0.00183
6.10E-05	2.12E-05	-0.00033	0.002409	-0.00123	-0.00656	0.001781	0.004072	-0.00144	-0.00018	4.81E-05	0.000802	0.000844	-0.00183
-6.71E-05	0.000196	0.000335	0.002761	-0.00129	-0.00652	0.001779	0.004062	-0.00144	-0.00018	4.85E-05	0.000799	0.00084	-0.00184
4.28E-05	0.000325	0.000966	0.003069	-0.00137	-0.00649	0.001777	0.004053	-0.00144	-0.00017	4.90E-05	0.000795	0.000836	-0.00184
0.000146	0.000259	0.001438	0.00334	-0.00145	-0.00645	0.001776	0.004043	-0.00143	-0.00017	4.94E-05	0.000792	0.000832	-0.00184
-0.00019	-6.83E-05	0.001635	0.003579	-0.00155	-0.00641	0.001773	0.004033	-0.00143	-0.00017	4.99E-05	0.000789	0.000828	-0.00185
9.71E-05	-0.00046	0.001529	0.003787	-0.00167	-0.00637	0.001771	0.004023	-0.00143	-0.00017	5.03E-05	0.000785	0.000824	-0.00185
0.00024	-0.00067	0.001155	0.003941	-0.00182	-0.00633	0.001769	0.004013	-0.00142	-0.00017	5.07E-05	0.000782	0.000819	-0.00185
-4.48E-05	-0.00055	0.00056	0.004026	-0.00198	-0.00629	0.001766	0.004003	-0.00142	-0.00017	5.11E-05	0.000779	0.000815	-0.00186
-0.00028	-0.00024	-0.00017	0.004034	-0.00217	-0.00624	0.001763	0.003992	-0.00142	-0.00017	5.15E-05	0.000775	0.000811	-0.00186
1.02E-05	0.000103	-0.00094	0.003955	-0.0024	-0.0062	0.001761	0.003981	-0.00141	-0.00017	5.19E-05	0.000772	0.000807	-0.00186
0.000291	0.000612	-0.00163	0.003773	-0.00264	-0.00615	0.001757	0.00397	-0.00141	-0.00016	5.23E-05	0.000769	0.000803	-0.00187
0.00038	0.001256	-0.00213	0.003474	-0.00291	-0.0061	0.001754	0.003959	-0.00141	-0.00016	5.27E-05	0.000765	0.000799	-0.00187
0.000278	0.001939	-0.00232	0.003041	-0.0032	-0.00605	0.001751	0.003948	-0.0014	-0.00016	5.31E-05	0.000762	0.000795	-0.00187
0.000104	0.002451	-0.00212	0.002466	-0.00351	-0.006	0.001747	0.003936	-0.0014	-0.00016	5.34E-05	0.000758	0.00079	-0.00188
-0.00053	0.002474	-0.00144	0.001769	-0.00382	-0.00595	0.001743	0.003925	-0.0014	-0.00016	5.38E-05	0.000755	0.000786	-0.00188
-0.00068	0.001555	-0.00031	0.000983	-0.00415	-0.0059	0.001739	0.003913	-0.00139	-0.00016	5.41E-05	0.000751	0.000782	-0.00188
-0.00012	-0.00023	0.001017	0.000152	-0.00447	-0.00584	0.001735	0.003901	-0.00139	-0.00016	5.45E-05	0.000748	0.000778	-0.00189
0.000302	-0.00236	0.002215	-0.00068	-0.0048	-0.00578	0.001731	0.003888	-0.00138	-0.00016	5.48E-05	0.000744	0.000774	-0.00189
0.000964	-0.00392	0.002957	-0.00145	-0.00512	-0.00573	0.001727	0.003876	-0.00138	-0.00015	5.51E-05	0.000741	0.000769	-0.0019
0.000145	-0.0039	0.003004	-0.00215	-0.00544	-0.00567	0.001722	0.003863	-0.00138	-0.00015	5.54E-05	0.000737	0.000765	-0.0019
-0.00027	-0.00195	0.002431	-0.00275	-0.00574	-0.00561	0.001717	0.00385	-0.00137	-0.00015	5.57E-05	0.000733	0.000761	-0.0019
-0.00112	0.001759	0.001438	-0.00324	-0.00603	-0.00555	0.001713	0.003837	-0.00137	-0.00015	5.60E-05	0.00073	0.000757	-0.00191
0.00111	0.005603	0.000234	-0.0036	-0.00631	-0.00548	0.001708	0.003824	-0.00136	-0.00015	5.63E-05	0.000726	0.000752	-0.00191
4.89E-05	0.006055	-0.00098	-0.00381	-0.00655	-0.00542	0.001702	0.003811	-0.00136	-0.00015	5.66E-05	0.000723	0.000748	-0.00191
-0.00099	0.002189	-0.00207	-0.00385	-0.00678	-0.00535	0.001697	0.003797	-0.00135	-0.00015	5.69E-05	0.000719	0.000744	-0.00192
0.000907	-0.00384	-0.00292	-0.00371	-0.00697	-0.00528	0.001692	0.003783	-0.00135	-0.00015	5.71E-05	0.000715	0.000739	-0.00192
-0.00084	-0.00733	-0.00342	-0.00338	-0.00713	-0.00521	0.001686	0.003769	-0.00134	-0.00014	5.74E-05	0.000711	0.000735	-0.00192
0.000797	-0.00807	-0.00345	-0.00284	-0.00725	-0.00514	0.00168	0.003755	-0.00134	-0.00014	5.76E-05	0.000708	0.000731	-0.00193
-0.00081	-0.0082	-0.0029	-0.00213	-0.00733	-0.00507	0.001674	0.003741	-0.00134	-0.00014	5.79E-05	0.000704	0.000726	-0.00193
-0.00081	-0.00711	-0.00187	-0.0013	-0.00737	-0.005	0.001668	0.003727	-0.00133	-0.00014	5.81E-05	0.0007	0.000722	-0.00194
0.000996	-0.00455	-0.00055	-0.0004	-0.00736	-0.00492	0.001662	0.003712	-0.00133	-0.00014	5.83E-05	0.000696	0.000718	-0.00194
-2.34E-05	0.000898	0.000834	0.000508	-0.00731	-0.00485	0.001656	0.003697	-0.00132	-0.00014	5.85E-05	0.000693	0.000713	-0.00194
-0.0014	0.00674	0.002076	0.00138	-0.00721	-0.00477	0.001649	0.003682	-0.00132	-0.00014	5.87E-05	0.000689	0.000709	-0.00195
0.001675	0.00996	0.00296	0.00216	-0.00707	-0.00469	0.001643	0.003667	-0.00131	-0.00014	5.89E-05	0.000685	0.000704	-0.00195
0.000346	0.009838	0.003319	0.002794	-0.00687	-0.00461	0.001636	0.003651	-0.00131	-0.00013	5.91E-05	0.000681	0.0007	-0.00195
-0.00234	0.007611	0.003196	0.003237	-0.00661	-0.00452	0.001629	0.003636	-0.0013	-0.00013	5.93E-05	0.000677	0.000695	-0.00196
0.002702	0.004596	0.002697	0.003484	-0.0063	-0.00444	0.001622	0.00362	-0.0013	-0.00013	5.94E-05	0.000673	0.000691	-0.00196
0.00099	0.001185	0.001931	0.003543	-0.00593	-0.00436	0.001615	0.003604	-0.00129	-0.00013	5.96E-05	0.000669	0.000686	-0.00196
-0.00063	-0.00235	0.001	0.00343	-0.0055	-0.00427	0.001607	0.003588	-0.00129	-0.00013	5.97E-05	0.000666	0.000682	-0.00197
-0.00226	-0.00571	9.15E-06	0.003163	-0.00502	-0.00418	0.0016	0.003571	-0.00128	-0.00013	5.99E-05	0.000662	0.000677	-0.00197
-0.00413	-0.00859	-0.00094	0.002765	-0.00448	-0.0041	0.001592	0.003555	-0.00127	-0.00013	6.00E-05	0.000658	0.000673	-0.00197
-0.0015	-0.01065	-0.00174	0.002258	-0.00391	-0.00401	0.001585	0.003538	-0.00127	-0.00013	6.01E-05	0.000654	0.000668	-0.00198
0.00186	-0.01149	-0.0023	0.001666	-0.0033	-0.00392	0.001577	0.003521	-0.00126	-0.00012	6.03E-05	0.00065	0.000664	-0.00198
0.003855	-0.01115	-0.00253	0.001011	-0.00267	-0.00382	0.001569	0.003504	-0.00126	-0.00012	6.04E-05	0.000646	0.000659	-0.00199
0.005181	-0.0097	-0.00246	0.000316	-0.00202	-0.00373	0.001561	0.003487	-0.00125	-0.00012	6.05E-05	0.000642	0.000655	-0.00199
0.005201	-0.00718	-0.00217	-0.00039	-0.00136	-0.00364	0.001552	0.003469	-0.00125	-0.00012	6.05E-05	0.000638	0.00065	-0.00199
-0.00085	-0.00368	-0.00171	-0.00106	-0.00069	-0.00355	0.001544	0.003452	-0.00124	-0.00012	6.06E-05	0.000633	0.000646	-0.002
-0.00523	0.000541	-0.00115	-0.00169	-2.52E-05	-0.00345	0.001536	0.003434	-0.00123	-0.00012	6.07E-05	0.000629	0.000641	-0.002
-0.0025	0.005196	-0.00055	-0.00223	0.000629	-0.00336	0.001527	0.003416	-0.00123	-0.00012	6.08E-05	0.000625	0.000636	-0.002
-0.00213	0.009086	3.63E-05	-0.00268	0.001267	-0.00326	0.001518	0.003398	-0.00122	-0.00012	6.08E-05	0.000621	0.000632	-0.00201
0.004395	0.010769	0.000565	-0.00302	0.001879	-0.00316	0.00151	0.003379	-0.00122	-0.00012	6.09E-05	0.000617	0.000627	-0.00201
0.004557	0.008935	0.000986	-0.00323	0.002461	-0.00307	0.001501	0.003361	-0.00121	-0.00011	6.09E-05	0.000613	0.000622	-0.00201
0.000979	0.003422	0.001275	-0.0033	0.003005	-0.00297	0.001492	0.003342	-0.0012	-0.00011	6.09E-05	0.000609	0.000618	-0.00202
0.000646	-0.00336	0.001411	-0.00321	0.00351	-0.00287	0.001482	0.003323	-0.0012	-0.00011	6.09E-05	0.000604	0.000613	-0.00202
-0.00363	-0.0084	0.001377	-0.00296	0.003975	-0.00277	0.001473	0.003304	-0.00119	-0.00011	6.09E-05	0.0006	0.000608	-0.00203
0.001349	-0.00938	0.001165	-0.00255	0.004401	-0.00267	0.001464	0.003285	-0.00119	-0.00011	6.09E-05	0.000596	0.000604	-0.00203
0.002294	-0.00677	0.000795	-0.002	0.004788	-0.00257	0.001454	0.003265	-0.00118	-0.00011	6.09E-05	0.000592	0.000599	-0.00203
0.002629	-0.0018	0.00034	-0.00135	0.005139	-0.00247	0.001445	0.003245	-0.00117	-0.00011	6.09E-05	0.000587	0.000594	-0.00204
0.001347	0.00404	-0.00011	-0.00063	0.005452	-0.00237	0.001435	0.003225	-0.00117	-0.00011	6.09E-05	0.000583	0.00059	-0.00204
-0.00207	0.007867	-0.00048	0.000106	0.00573	-0.00227	0.001425	0.003205	-0.00116	-0.0001	6.09E-05	0.000579	0.000585	-0.00204
0.000916	0.006505	-0.0007	0.000836	0.005972	-0.00217	0.001415	0.003185	-0.00115	-0.0001	6.08E-05	0.000574	0.00058	-0.00205
0.001686	0.002097	-0.00077	0.00152	0.00618	-0.00207	0.001405	0.003165	-0.00115	-0.0001	6.07E-05	0.00057	0.000575	-0.00205
0.000312	-0.00242	-0.00073	0.002131	0.006354	-0.00197	0.001395	0.003144	-0.00114	-0.0001	6.07E-05	0.000566	0.00057	-0.00205
-0.00148	-0.00533	-0.00062	0.002648	0.006494	-0.00187	0.001385	0.003123	-0.00113	-0.0001	6.06E-05	0.000561	0.000566	-0.00206
0.001067	-0.00575	-0.00047	0.003051	0.006603	-0.00177	0.001374	0.003102	-0.00112	-9.92E-05	6.05E-05	0.000557	0.000561	-0.00206
0.001402	-0.00473	-0.00029	0.003317	0.00668	-0.00167	0.001364	0.003081	-0.00112	-9.81E-05	6.04E-05	0.000552	0.000556	-0.00207
-7.57E-05	-0.00357	-9.94E-05	0.003427	0.006726	-0.00157	0.001353	0.00306	-0.00111	-9.69E-05	6.03E-05	0.000548	0.000551	-0.00207
-0.00023	-0.00241	0.000101	0.003358	0.006744	-0.00147	0.001342	0.003038	-0.0011	-9.58E-05	6.02E-05	0.000543	0.000546	-0.00207
-0.00114	-0.00107	0.00029	0.003091	0.006737	-0.00137	0.001332	0.003017	-0.0011	-9.47E-05	6.01E-05	0.000539	0.000541	-0.00208
-0.00133	0.000641	0.000439	0.002618	0.006707	-0.00127	0.001321	0.002995	-0.00109	-9.36E-05	6.00E-05	0.000534	0.000537	-0.00208
0.001264	0.002517	0.000507	0.001947	0.006655	-0.00117	0.00131	0.002973	-0.00108	-9.24E-05	5.98E-05	0.00053	0.000532	-0.00208
0.001146	0.003046	0.000431	0.001113	0.006584	-0.00107	0.001299	0.00295	-0.00107	-9.13E-05	5.97E-05	0.000525	0.000527	-0.00209
-0.0006	0.001517	0.00018	0.000179	0.006494	-0.00097	0.001288	0.002928	-0.00107	-9.02E-05	5.95E-05	0.000521	0.000522	-0.00209
-0.00092	-0.0008	-0.00015	-0.00079	0.006388	-0.00087	0.001276	0.002905	-0.00106	-8.91E-05	5.94E-05	0.000516	0.000517	-0.0021
-0.00089	-0.00221	-0.00042	-0.00172	0.006267	-0.00078	0.001265	0.002883	-0.00105	-8.80E-05	5.92E-05	0.000511	0.000512	-0.0021
0.000632	-0.00159	-0.00054	-0.00256	0.006134	-0.00068	0.001254	0.00286	-0.00104	-8.69E-05	5.90E-05	0.000507	0.000507	-0.0021
-0.0005	0.000265	-0.0005	-0.00323	0.00599	-0.00058	0.001242	0.002836	-0.00103	-8.58E-05	5.88E-05	0.000502	0.000502	-0.00211
0.000385	0.001294	-0.00033	-0.00368	0.005836	-0.00048	0.001231	0.002813	-0.00103	-8.47E-05	5.86E-05	0.000497	0.000497	-0.00211
4.12E-05	0.001546	-3.04E-05	-0.00389	0.005674	-0.00039	0.001219	0.002789	-0.00102	-8.36E-05	5.84E-05	0.000493	0.000492	-0.00211
-0.00023	0.000856	0.000364	-0.00382	0.005507	-0.00029	0.001207	0.002766	-0.00101	-8.25E-05	5.82E-05	0.000488	0.000487	-0.00212
0.000194	-0.00063	0.000667	-0.00345	0.005333	-0.0002	0.001195	0.002742	-0.001	-8.14E-05	5.79E-05	0.000483	0.000482	-0.00212
-0.00017	-0.00139	0.000654	-0.0028	0.005151	-0.00011	0.001183	0.002718	-0.00099	-8.03E-05	5.77E-05	0.000479	0.000477	-0.00212
0.000149	-0.00063	0.000198	-0.00185	0.004962	-1.45E-05	0.001171	0.002693	-0.00098	-7.93E-05	5.74E-05	0.000474	0.000472	-0.00213
-0.00012	0.000523	-0.00044	-0.00073	0.004766	7.70E-05	0.001159	0.002669	-0.00098	-7.82E-05	5.72E-05	0.000469	0.000467	-0.00213
8.80E-05	0.001474	-0.0009	0.000461	0.004561	0.000168	0.001147	0.002644	-0.00097	-7.71E-05	5.69E-05	0.000464	0.000462	-0.00214
7.85E-05	0.001238	-0.00092	0.001599	0.004348	0.000257	0.001135	0.002619	-0.00096	-7.60E-05	5.66E-05	0.000459	0.000457	-0.00214
-3.32E-05	-4.01E-05	-0.00058	0.002621	0.004127	0.000346	0.001123	0.002594	-0.00095	-7.50E-05	5.63E-05	0.000454	0.000452	-0.00214
3.96E-05	-0.00138	-8.22E-05	0.003476	0.003897	0.000433	0.00111	0.002569	-0.00094	-7.39E-05	5.60E-05	0.00045	0.000446	-0.00215
-8.17E-05	-0.00178	0.000404	0.004118	0.003658	0.00052	0.001098	0.002544	-0.00093	-7.28E-05	5.57E-05	0.000445	0.000441	-0.00215
0.000157	-0.0011	0.00084	0.004499	0.003409	0.000605	0.001085	0.002518	-0.00092	-7.18E-05	5.54E-05	0.00044	0.000436	-0.00215
-0.00025	0.000328	0.001184	0.004569	0.003152	0.000689	0.001073	0.002493	-0.00092	-7.07E-05	5.51E-05	0.000435	0.000431	-0.00216
0.000339	0.001276	0.001379	0.004283	0.002889	0.000772	0.00106	0.002467	-0.00091	-6.97E-05	5.47E-05	0.00043	0.000426	-0.00216

-0.00041	0.001817	0.001343	0.003631	0.002622	0.000853	0.001047	0.00244	-0.0009	-6.86E-05	5.44E-05	0.000425	0.000421	-0.00217
-0.00024	0.002088	0.000958	0.002687	0.002351	0.000933	0.001034	0.002414	-0.00089	-6.76E-05	5.40E-05	0.00042	0.000415	-0.00217
0.000233	0.002134	0.000193	0.001543	0.002077	0.001012	0.001021	0.002388	-0.00088	-6.65E-05	5.36E-05	0.000415	0.00041	-0.00217
0.000251	0.001705	-0.00076	0.00029	0.001801	0.001089	0.001008	0.002361	-0.00087	-6.55E-05	5.33E-05	0.00041	0.000405	-0.00218
0.000367	0.000464	-0.00158	-0.00098	0.001522	0.001165	0.000995	0.002334	-0.00086	-6.45E-05	5.29E-05	0.000405	0.0004	-0.00218
0.00042	-0.00123	-0.00197	-0.00217	0.001242	0.001239	0.000982	0.002307	-0.00085	-6.34E-05	5.25E-05	0.0004	0.000394	-0.00218
-0.00038	-0.00196	-0.00158	-0.00321	0.00096	0.001312	0.000969	0.00228	-0.00084	-6.24E-05	5.21E-05	0.000395	0.000389	-0.00219
0.000349	-0.00047	-0.00025	-0.00406	0.000677	0.001383	0.000956	0.002252	-0.00083	-6.14E-05	5.17E-05	0.00039	0.000384	-0.00219
-0.00033	0.001542	0.001357	-0.00471	0.000395	0.001452	0.000943	0.002225	-0.00082	-6.03E-05	5.12E-05	0.000384	0.000379	-0.0022
0.00033	0.001554	0.002375	-0.00512	0.000112	0.001519	0.00093	0.002197	-0.00081	-5.93E-05	5.08E-05	0.000379	0.000373	-0.0022
-0.00035	0.000118	0.002156	-0.00527	-0.00017	0.001585	0.000916	0.002169	-0.0008	-5.83E-05	5.03E-05	0.000374	0.000368	-0.0022
0.000377	-0.00118	0.000978	-0.00521	-0.00045	0.001649	0.000903	0.002141	-0.00079	-5.73E-05	4.99E-05	0.000369	0.000363	-0.00221
-0.00039	-0.00101	-0.00064	-0.00498	-0.00071	0.001711	0.000889	0.002113	-0.00078	-5.63E-05	4.94E-05	0.000364	0.000357	-0.00221
0.000378	0.000398	-0.00217	-0.00468	-0.00097	0.001772	0.000876	0.002084	-0.00077	-5.53E-05	4.89E-05	0.000358	0.000352	-0.00221
-0.00035	0.000637	-0.00287	-0.00439	-0.0012	0.00183	0.000862	0.002056	-0.00076	-5.43E-05	4.84E-05	0.000353	0.000347	-0.00222
-9.00E-05	-2.57E-05	-0.0024	-0.00415	-0.00141	0.001886	0.000849	0.002027	-0.00075	-5.33E-05	4.80E-05	0.000348	0.000341	-0.00222
0.000358	-0.00042	-0.00153	-0.00399	-0.00159	0.00194	0.000835	0.001998	-0.00074	-5.23E-05	4.74E-05	0.000343	0.000336	-0.00223
-0.00044	0.000375	-0.00108	-0.00387	-0.00176	0.001992	0.000821	0.001968	-0.00073	-5.13E-05	4.69E-05	0.000337	0.00033	-0.00223
0.000594	-1.85E-06	-0.00076	-0.00378	-0.00191	0.002042	0.000807	0.001939	-0.00072	-5.03E-05	4.64E-05	0.000332	0.000325	-0.00223
0.000577	-0.0004	-0.00019	-0.00371	-0.00204	0.00209	0.000794	0.001909	-0.00071	-4.93E-05	4.59E-05	0.000327	0.00032	-0.00224
-0.00025	-0.00052	0.000903	-0.00363	-0.00216	0.002136	0.00078	0.00188	-0.0007	-4.83E-05	4.53E-05	0.000321	0.000314	-0.00224
-0.00138	-0.00013	0.002272	-0.00353	-0.00227	0.002179	0.000766	0.00185	-0.00069	-4.73E-05	4.47E-05	0.000316	0.000309	-0.00224
0.001686	0.000764	0.003386	-0.00339	-0.00237	0.00222	0.000752	0.001819	-0.00068	-4.63E-05	4.42E-05	0.00031	0.000303	-0.00225
-0.00027	0.000613	0.00378	-0.0032	-0.00247	0.002259	0.000738	0.001789	-0.00067	-4.53E-05	4.36E-05	0.000305	0.000298	-0.00225
-0.00227	-0.00024	0.003427	-0.00294	-0.00257	0.002295	0.000724	0.001759	-0.00066	-4.44E-05	4.30E-05	0.0003	0.000292	-0.00226
-0.002	-0.00104	0.002514	-0.00263	-0.00265	0.002328	0.00071	0.001728	-0.00064	-4.34E-05	4.24E-05	0.000294	0.000287	-0.00226
-0.00133	-0.00144	0.001256	-0.00226	-0.00273	0.00236	0.000696	0.001697	-0.00063	-4.24E-05	4.18E-05	0.000289	0.000281	-0.00226
-0.00041	-0.00138	-0.00014	-0.00185	-0.00281	0.002388	0.000682	0.001666	-0.00062	-4.15E-05	4.12E-05	0.000283	0.000276	-0.00227
0.001313	-0.00099	-0.00148	-0.0014	-0.00288	0.002414	0.000667	0.001635	-0.00061	-4.05E-05	4.05E-05	0.000277	0.00027	-0.00227
0.002161	-0.00043	-0.00266	-0.00092	-0.00294	0.002438	0.000653	0.001603	-0.0006	-3.96E-05	3.99E-05	0.000272	0.000265	-0.00227
0.003089	0.000201	-0.00362	-0.00043	-0.003	0.002458	0.000639	0.001572	-0.00059	-3.86E-05	3.93E-05	0.000266	0.000259	-0.00228
0.003528	0.000843	-0.0043	7.78E-05	-0.00305	0.002476	0.000625	0.00154	-0.00058	-3.76E-05	3.86E-05	0.000261	0.000253	-0.00228
0.003928	0.001447	-0.00472	0.000589	-0.0031	0.002491	0.00061	0.001508	-0.00056	-3.67E-05	3.79E-05	0.000255	0.000248	-0.00229
0.003906	0.002001	-0.00487	0.001101	-0.00314	0.002504	0.000596	0.001476	-0.00055	-3.58E-05	3.72E-05	0.000249	0.000242	-0.00229
0.00374	0.002551	-0.00477	0.001608	-0.00318	0.002513	0.000582	0.001443	-0.00054	-3.48E-05	3.65E-05	0.000244	0.000237	-0.00229
0.003425	0.003117	-0.00442	0.002105	-0.00321	0.00252	0.000567	0.001411	-0.00053	-3.39E-05	3.58E-05	0.000238	0.000231	-0.0023
0.001491	0.00366	-0.00385	0.002587	-0.00323	0.002523	0.000553	0.001378	-0.00052	-3.29E-05	3.51E-05	0.000232	0.000225	-0.0023
-0.00169	0.004027	-0.00306	0.003046	-0.00325	0.002524	0.000539	0.001345	-0.0005	-3.20E-05	3.44E-05	0.000227	0.00022	-0.0023
-0.00327	0.004039	-0.00206	0.003478	-0.00326	0.002521	0.000524	0.001312	-0.00049	-3.11E-05	3.37E-05	0.000221	0.000214	-0.00231
-0.00407	0.003524	-0.00088	0.003877	-0.00327	0.002516	0.00051	0.001279	-0.00048	-3.02E-05	3.29E-05	0.000215	0.000208	-0.00231
-0.00427	0.002395	0.000458	0.004236	-0.00327	0.002507	0.000495	0.001245	-0.00047	-2.92E-05	3.22E-05	0.000209	0.000202	-0.00232
-0.00393	0.000811	0.00185	0.00455	-0.00326	0.002495	0.000481	0.001212	-0.00046	-2.83E-05	3.14E-05	0.000204	0.000197	-0.00232
-0.00315	-0.00101	0.003197	0.004812	-0.00325	0.00248	0.000466	0.001178	-0.00044	-2.74E-05	3.06E-05	0.000198	0.000191	-0.00232
-0.00197	-0.00282	0.004389	0.005018	-0.00324	0.002461	0.000452	0.001144	-0.00043	-2.65E-05	2.98E-05	0.000192	0.000185	-0.00233
8.92E-05	-0.00437	0.005316	0.005161	-0.00322	0.002439	0.000437	0.00111	-0.00042	-2.56E-05	2.90E-05	0.000186	0.000179	-0.00233
0.001757	-0.00539	0.005869	0.005236	-0.00319	0.002414	0.000423	0.001075	-0.00041	-2.47E-05	2.82E-05	0.00018	0.000174	-0.00234
0.003703	-0.00563	0.005944	0.005236	-0.00315	0.002385	0.000408	0.001041	-0.00039	-2.38E-05	2.74E-05	0.000174	0.000168	-0.00234
0.003694	-0.00494	0.00549	0.00516	-0.00312	0.002353	0.000393	0.001006	-0.00038	-2.29E-05	2.66E-05	0.000168	0.000162	-0.00234
0.002161	-0.00354	0.004589	0.005013	-0.00307	0.002317	0.000379	0.000971	-0.00037	-2.20E-05	2.57E-05	0.000162	0.000156	-0.00235
0.001182	-0.00168	0.00335	0.004803	-0.00302	0.002278	0.000364	0.000936	-0.00035	-2.11E-05	2.49E-05	0.000156	0.00015	-0.00235
-0.00043	0.000377	0.001886	0.004536	-0.00297	0.002235	0.00035	0.000901	-0.00034	-2.02E-05	2.40E-05	0.00015	0.000145	-0.00235
-0.00164	0.002391	0.000308	0.00422	-0.00291	0.002189	0.000335	0.000866	-0.00033	-1.93E-05	2.31E-05	0.000144	0.000139	-0.00236
-0.00265	0.004156	-0.00127	0.003862	-0.00284	0.002138	0.00032	0.00083	-0.00031	-1.85E-05	2.22E-05	0.000138	0.000133	-0.00236
-0.0022	0.00561	-0.00275	0.00347	-0.00277	0.002084	0.000306	0.000794	-0.0003	-1.76E-05	2.14E-05	0.000132	0.000127	-0.00237
-0.00089	0.006506	-0.00399	0.00305	-0.00269	0.002026	0.000291	0.000758	-0.00029	-1.67E-05	2.04E-05	0.000126	0.000121	-0.00237
0.000273	0.006529	-0.00491	0.002609	-0.00261	0.001965	0.000277	0.000722	-0.00027	-1.58E-05	1.95E-05	0.00012	0.000115	-0.00237
0.001507	0.005381	-0.00543	0.002156	-0.00252	0.001899	0.000262	0.000686	-0.00026	-1.50E-05	1.86E-05	0.000114	0.000109	-0.00238
0.00167	0.002906	-0.00559	0.001697	-0.00243	0.00183	0.000247	0.000649	-0.00025	-1.41E-05	1.77E-05	0.000108	0.000103	-0.00238
0.001462	-0.00063	-0.00544	0.001239	-0.00233	0.001756	0.000233	0.000612	-0.00023	-1.33E-05	1.67E-05	0.000102	9.72E-05	-0.00239
0.001268	-0.00412	-0.00505	0.00079	-0.00222	0.001679	0.000218	0.000575	-0.00022	-1.24E-05	1.57E-05	9.54E-05	9.13E-05	-0.00239
-0.00117	-0.00628	-0.00448	0.000357	-0.00211	0.001597	0.000203	0.000538	-0.0002	-1.16E-05	1.48E-05	8.92E-05	8.53E-05	-0.00239
-0.00015	-0.00603	-0.00379	-5.36E-05	-0.002	0.001511	0.000189	0.000501	-0.00019	-1.07E-05	1.38E-05	8.30E-05	7.93E-05	-0.0024
0.00092	-0.0032	-0.003	-0.00043	-0.00187	0.001421	0.000174	0.000464	-0.00018	-9.86E-06	1.28E-05	7.67E-05	7.33E-05	-0.0024
-0.00083	0.001343	-0.00217	-0.00078	-0.00175	0.001327	0.00016	0.000426	-0.00016	-9.02E-06	1.18E-05	7.04E-05	6.72E-05	-0.0024
0.000762	0.004729	-0.00132	-0.00107	-0.00162	0.001229	0.000145	0.000388	-0.00015	-8.18E-06	1.08E-05	6.41E-05	6.12E-05	-0.00241
0.000261	0.005178	-0.00049	-0.00132	-0.00148	0.001126	0.00013	0.00035	-0.00013	-7.35E-06	9.75E-06	5.78E-05	5.51E-05	-0.00241
-0.00068	0.002909	0.000276	-0.00151	-0.00134	0.001019	0.000116	0.000312	-0.00012	-6.52E-06	8.71E-06	5.15E-05	4.91E-05	-0.00242
0.000661	-0.0004	0.000951	-0.00163	-0.00119	0.000908	0.000101	0.000274	-0.0001	-5.69E-06	7.66E-06	4.51E-05	4.30E-05	-0.00242
-0.00064	-0.00274	0.001495	-0.00167	-0.00103	0.000792	8.68E-05	0.000235	-9.00E-05	-4.87E-06	6.60E-06	3.87E-05	3.69E-05	-0.00242
0.000609	-0.00347	0.001873	-0.00164	-0.00087	0.000671	7.23E-05	0.000196	-7.52E-05	-4.05E-06	5.53E-06	3.23E-05	3.08E-05	-0.00243
-0.00056	-0.00289	0.002048	-0.00152	-0.00071	0.000546	5.78E-05	0.000157	-6.03E-05	-3.23E-06	4.44E-06	2.59E-05	2.46E-05	-0.00243
0.000486	-0.00244	0.001985	-0.0013	-0.00054	0.000417	4.33E-05	0.000118	-4.54E-05	-2.42E-06	3.35E-06	1.95E-05	1.85E-05	-0.00244
-0.00037	-0.00226	0.001646	-0.00098	-0.00037	0.000282	2.89E-05	7.91E-05	-3.03E-05	-1.61E-06	2.24E-06	1.30E-05	1.23E-05	-0.00244
0.000215	-0.0017	0.000997	-0.00055	-0.00019	0.000144	1.44E-05	3.96E-05	-1.52E-05	-8.02E-07	1.13E-06	6.51E-06	6.18E-06	-0.00244
0	0	0	0	2.17E-19	-1.08E-19	-5.29E-23	-1.63E-19	1.08E-19	5.80E-19	0	5.66E-19	0	-0.00245