Lecture 11: Binary IRT Models

Bayesian Psychometric Modeling

```
# Install/Load Packages =======
if (!require(R2jags)) install.packages("R2jags")
## Loading required package: R2jags
## Loading required package: rjags
## Loading required package: coda
## Linked to JAGS 4.3.0
## Loaded modules: basemod, bugs
##
## Attaching package: 'R2jags'
## The following object is masked from 'package:coda':
##
##
      traceplot
library(R2jags)
if (!require(CDM)) install.packages("CDM")
## Loading required package: CDM
## Loading required package: mvtnorm
## **********
## ** CDM 7.3-17 (2019-03-18 18:33:40)
## ** Cognitive Diagnostic Models **
## ************
library(CDM)
if (!require(MASS)) install.packages("MASS")
## Loading required package: MASS
library(MASS)
FSdata = fraction.subtraction.data
FSQmatrix = fraction.subtraction.qmatrix
```

Item Response Models for Binary Data: Example Analyses

We will use the Tatsuoka (1984) fraction subtraction data for today's examples. See DeCarlo (2011, p. 9) for the items: $https://scholar.google.com/scholar?hl=en&as_sdt=0\%2C36&q=l+decarlo+2011&btnG=$.

First, we will treat these data as unidimensional to demonstrate unidimensional IRT models. We can use the syntax from the unidimensional CFA model as a start for modeling the 2PL model. This uses slope/intercept form, which we will change to discrimination/difficulty later. Also, we will use R2jags to make quick use of DIC for model comparisons.

Also note: these analyses take an excessive amount of time to run. So, please follow along with the HTML file through class.

Model 1: Unidimensional 2PNO Model

```
# model 1 specs:
nItems = ncol(FSdata)
# marker item:
model01.function = function(){
  # measurement model specification
   for (person in 1:N){
     for (item in 1:I){
       X[person, item] ~ dbern(phi(mu[item] + lambda[item]*theta[person]))
      }
   }
  # prior distribution for the factor variance
   theta.precision ~ dgamma(theta.alpha.0, theta.beta.0)
  # saved parameters
   theta.variance <- 1/theta.precision
  # prior distributions for the factor:
   for (person in 1:N){
      theta[person] ~ dnorm(0, theta.precision)
      thetaS[person] <- theta[person]/theta.variance</pre>
   }
  # prior distributions for the measurement model mean/precision parameters
   for (item in 1:I){
      mu[item] ~ dnorm(mu.mean.0, mu.precision.0)
  # prior distributions for the loadings (except the first loading, which is fixed to 1.0)
   lambda[1] <- 1
   for (item in 2:I){
      lambda[item] ~ dnorm(lambda.mean.0, lambda.precision.0)
   }
  # create standardized lambda
   lambdaS <- sqrt(theta.variance)*lambda</pre>
# specification of prior values for measurement model parameters:
   item intercepts
mu.mean.0 = 0
mu.variance.0 = 100
mu.precision.0 = 1 / mu.variance.0
   Factor loadings -- these are the discriminations
lambda.mean.0 = 0
lambda.variance.0 = 100
lambda.precision.0 = 1 / lambda.variance.0
```

```
# unique variances -- these do not exist
# values for prior for factor variance (based on variance of marker item)
theta.df.0 = 1
theta.var.0 = 1
theta.alpha.0 = theta.df.0/2
theta.beta.0 = (theta.df.0*theta.var.0)/2
# next, create data for JAGS to use:
model01.data = list(
 N = nrow(FSdata),
 X = FSdata,
 I = nItems,
 mu.mean.0 = mu.mean.0,
 mu.precision.0 = mu.precision.0,
 lambda.mean.0 = lambda.mean.0,
 lambda.precision.0 = lambda.precision.0,
 theta.alpha.0 = theta.alpha.0,
  theta.beta.0 = theta.beta.0
)
model01.parameters = c("mu", "lambda", "theta.variance", "theta", "thetaS", "lambdaS", "b")
# for reproducable analyses
model01.seed = 06042019
Here, we will use the R2jags jags.parallel() function, which will run somewhat faster (one chain per core):
model01.r2jags = jags.parallel(
 data = model01.data,
  parameters.to.save = model01.parameters,
 model.file = model01.function,
 n.chains = 4,
 n.iter = 2000,
 n.thin = 1.
 n.burnin = 1000,
 n.cluster = 4,
  jags.seed = model01.seed
model01.r2jags
## Inference for Bugs model at "model01.function", fit using jags,
## 4 chains, each with 2000 iterations (first 1000 discarded)
## n.sims = 4000 iterations saved
##
                   mu.vect sd.vect
                                       2.5%
                                                 25%
                                                          50%
                                                                   75%
## lambda[1]
                     1.000
                           0.000
                                      1.000
                                               1.000
                                                        1.000
                                                                 1.000
## lambda[2]
                     1.540
                             0.195
                                      1.204
                                               1.399
                                                        1.525
                                                                 1.662
## lambda[3]
                     1.287 0.164
                                     1.005
                                              1.166
                                                        1.277
                                                                 1.390
## lambda[4]
                     0.745
                             0.107
                                      0.564
                                               0.668
                                                        0.739
                                                                 0.811
## lambda[5]
                     0.604
                             0.087
                                      0.449
                                               0.542
                                                        0.600
                                                                 0.659
## lambda[6]
                     1.133
                             0.165
                                      0.846
                                               1.014
                                                        1.127
                                                                 1.237
## lambda[7]
                     1.381 0.189
                                      1.047
                                               1.250 1.366
                                                                1.496
## lambda[8]
                     0.621
                             0.094
                                      0.460
                                               0.551
                                                        0.614
                                                                 0.680
## lambda[9]
                     0.421
                                      0.300
                                               0.373
                                                        0.415
                             0.069
                                                                 0.464
```

##	lambda[10]	1.560	0.210	1.205	1.411	1.540	1.690
##	lambda[11]	1.486	0.217	1.127	1.334	1.464	1.619
##	lambda[12]	0.979	0.138	0.740	0.883	0.966	1.062
##	lambda[13]	1.512	0.228	1.117	1.349	1.493	1.656
##	lambda[14]	1.145	0.163	0.867	1.027	1.131	1.248
##	lambda[15]	1.447	0.198	1.097	1.306	1.428	1.577
##	lambda[16]	1.006	0.140	0.761	0.906	0.996	1.095
##	lambda[17]	1.735	0.247	1.293	1.560	1.716	1.889
##	lambda[18]	1.239	0.171	0.942	1.116	1.224	1.350
##	lambda[19]	2.010	0.313	1.479	1.789	1.989	2.197
##	lambda[20]	1.770	0.269	1.296	1.579	1.749	1.943
##	lambdaS[1]	1.257	0.139	0.997	1.158	1.251	1.351
##	lambdaS[2]	1.916	0.175	1.593	1.794	1.907	2.030
##	lambdaS[3]	1.601	0.146	1.330	1.498	1.597	1.693
##	lambdaS[4]	0.925	0.090	0.762	0.862	0.923	0.983
##	lambdaS[5]	0.751	0.078	0.600	0.696	0.749	0.801
##	lambdaS[6]	1.408	0.150	1.134	1.305	1.398	1.507
##	lambdaS[7]	1.716	0.162	1.408	1.606	1.709	1.819
##	lambdaS[8]	0.771	0.087	0.609	0.713	0.767	0.827
##	lambdaS[9]	0.523	0.069	0.396	0.477	0.521	0.570
##	lambdaS[10]	1.940	0.194	1.594	1.806	1.930	2.058
##	lambdaS[11]	1.845	0.179	1.527	1.724	1.834	1.955
##							
	lambdaS[12]	1.216	0.115	1.005	1.138	1.210	1.292
##	lambdaS[13]	1.879	0.212	1.504	1.732	1.863	2.022
##	lambdaS[14]	1.423	0.135	1.169	1.330	1.418	1.510
##	lambdaS[15]	1.798	0.168	1.484	1.682	1.794	1.908
##	lambdaS[16]	1.250	0.118	1.034	1.168	1.244	1.328
##	lambdaS[17]	2.156	0.216	1.761	2.009	2.147	2.295
##	lambdaS[18]	1.539	0.143	1.280	1.440	1.531	1.630
##	lambdaS[19]	2.499	0.309	1.974	2.280	2.471	2.690
##	lambdaS[20]	2.198	0.238	1.767	2.036	2.182	2.346
##	mu[1]	0.064	0.089	-0.110	0.006	0.065	0.124
##	mu[2]	0.322	0.121	0.087	0.242	0.319	0.401
##	mu[3]	-0.031	0.105	-0.246	-0.101	-0.030	0.040
##	mu[4]	0.096	0.074	-0.050	0.046	0.097	0.145
##	mu[5]	0.260	0.069	0.124	0.214	0.260	0.305
##	mu[6]	1.419	0.142	1.154	1.323	1.411	1.510
##	mu[7]	-0.617	0.118	-0.859	-0.692	-0.614	-0.538
##	mu[8]	0.845	0.080	0.696	0.790	0.844	0.898
##	mu[9]	0.428	0.063	0.301	0.385	0.429	0.471
##	mu[10]	-0.792	0.140	-1.082	-0.882	-0.791	-0.698
	mu[11]	-0.222	0.119	-0.457	-0.301	-0.223	-0.142
	mu[12]	0.937	0.102	0.748	0.867	0.933	1.005
	mu[13]	-1.275	0.167	-1.621	-1.384	-1.266	-1.159
	mu[14]	0.994	0.113	0.779	0.915	0.990	1.066
	mu[15]	-0.357	0.118	-0.589	-0.436	-0.356	-0.277
	mu[16]	0.790	0.098	0.608	0.724	0.787	0.855
	mu[17]	-0.545	0.140	-0.842	-0.634	-0.540	-0.450
	mu[17] mu[18]	-0.246	0.140	-0.450	-0.314	-0.246	-0.178
	mu[19]	-1.520	0.103	-1.986	-1.655	-1.505	-1.370
	mu[19] mu[20]	-1.520 -0.827					
			0.160	-1.156 -0.069	-0.927	-0.822	-0.718
	theta[1]	0.381	0.235	-0.069	0.224	0.380	0.535
	theta[2]	1.351	0.367	0.723	1.089	1.324	1.582
##	theta[3]	-0.060	0.259	-0.580	-0.231	-0.055	0.115

##	theta[4]	0.495	0.257	0.011	0.319	0.483	0.664
##	theta[5]	-1.111	0.408	-2.002	-1.353	-1.079	-0.825
##	theta[6]	-1.115	0.397	-1.947	-1.372	-1.093	-0.840
##	theta[7]	-1.895	0.574	-3.137	-2.253	-1.848	-1.482
##	theta[8]	-1.695	0.498	-2.771	-2.020	-1.664	-1.340
##	theta[9]	-1.315	0.434	-2.261	-1.582	-1.283	-1.008
##	theta[10]	-1.306	0.445	-2.278	-1.603	-1.278	-0.985
##	theta[11]	0.287	0.255	-0.226	0.121	0.287	0.455
##	theta[12]	0.514	0.249	0.018	0.350	0.509	0.677
##	theta[13]	-0.496	0.285	-1.084	-0.674	-0.486	-0.298
##	theta[14]	-1.352	0.437	-2.307	-1.627	-1.312	-1.047
##	theta[15]	-1.287	0.440	-2.226	-1.562	-1.265	-0.975
##	theta[16]	-0.648	0.309	-1.277	-0.845	-0.633	-0.432
##	theta[17]	-0.918	0.341	-1.652	-1.139	-0.906	-0.680
##	theta[18]	-1.350	0.426	-2.236	-1.618	-1.316	-1.059
##	theta[19]	-1.064	0.391	-1.892	-1.318	-1.042	-0.787
##	theta[20]	-2.104	0.628	-3.523	-2.464	-2.034	-1.673
##	theta[21]	0.861	0.278	0.343	0.674	0.846	1.042
##	theta[22]	0.493	0.251	0.023	0.322	0.484	0.657
##	theta[23]	2.103	0.676	1.054	1.633	1.999	2.462
##	theta[24]	0.031	0.246	-0.469	-0.131	0.036	0.196
##	theta[25]	0.161	0.250	-0.335	0.001	0.164	0.329
##	theta[26]	-2.209	0.653	-3.679	-2.616	-2.125	-1.749
##	theta[27]	-1.001	0.379	-1.814	-1.243	-0.968	-0.730
##	theta[28]	-2.523	0.748	-4.196	-2.972	-2.450	-1.981
##	theta[29]	-0.929	0.367	-1.672	-1.174	-0.914	-0.670
##	theta[30]	2.110	0.687	1.079	1.620	2.010	2.480
##	theta[31]	0.555	0.245	0.088	0.390	0.551	0.716
##	theta[32]	2.167	0.692	1.111	1.671	2.075	2.566
##	theta[33]	1.251	0.358	0.631	0.991	1.232	1.470
##	theta[34]	0.563	0.241	0.097	0.409	0.555	0.719
##	theta[35]	1.010	0.296	0.483	0.802	0.982	1.197
##	theta[36]	0.276	0.249	-0.210	0.114	0.277	0.435
##	theta[37]	-0.131	0.251	-0.641	-0.289	-0.128	0.042
##	theta[38]	0.087	0.255	-0.415	-0.082	0.084	0.258
##	theta[39]	1.062	0.295	0.525	0.862	1.043	1.247
##	theta[40]	-0.961	0.371	-1.752	-1.191	-0.941	-0.709
	theta[41]	-2.224	0.692	-3.824	-2.632	-2.146	-1.722
	theta[42]	2.128	0.703	1.028	1.621	2.023	2.550
	theta[43]	1.267	0.352	0.665	1.017	1.240	1.482
	theta[44]	-1.418	0.457	-2.413	-1.696	-1.386	-1.101
	theta[45]	1.058	0.316	0.483	0.838	1.041	1.253
	theta[46]	0.614	0.251	0.150	0.446	0.603	0.776
	theta[47]	-1.054	0.378	-1.877	-1.291	-1.026	-0.789
	theta[48]	-0.318	0.263	-0.839	-0.494	-0.311	-0.140
	theta[49]	-1.827	0.519	-2.974	-2.147	-1.795	-1.450
	theta[50]	0.585	0.244	0.126	0.420	0.580	0.743
	theta[51]	-2.041	0.587	-3.324	-2.382	-1.999	-1.631
	theta[52]	-0.510	0.296	-1.109	-0.700	-0.502	-0.307
	theta[53]	-0.599	0.302	-1.228	-0.797	-0.587	-0.392
	theta[54]	1.178	0.323	0.608	0.951	1.155	1.384
	theta[55]	0.031	0.252	-0.472	-0.132	0.036	0.198
	theta[56]	2.134	0.682	1.065	1.630	2.034	2.549
##	theta[57]	1.438	0.410	0.745	1.153	1.406	1.682

##	theta[58]	-2.223	0.672	-3.735	-2.610	-2.144	-1.755
##	theta[59]	-0.955	0.381	-1.780	-1.190	-0.929	-0.689
##	theta[60]	0.807	0.282	0.294	0.611	0.794	0.985
##	theta[61]	-1.272	0.421	-2.174	-1.540	-1.253	-0.974
##	theta[62]	-2.054	0.587	-3.337	-2.409	-2.010	-1.624
##	theta[63]	0.434	0.250	-0.046	0.264	0.430	0.594
##	theta[64]	0.830	0.281	0.328	0.638	0.814	0.999
##	theta[65]	0.269	0.253	-0.215	0.099	0.264	0.438
##	theta[66]	-0.036	0.241	-0.519	-0.194	-0.035	0.125
##	theta[67]	0.414	0.244	-0.052	0.254	0.410	0.571
##	theta[68]	-2.179	0.654	-3.705	-2.546	-2.107	-1.734
##	theta[69]	-2.439	0.721	-3.944	-2.884	-2.379	-1.937
##	theta[70]	-0.444	0.269	-0.990	-0.618	-0.431	-0.256
##	theta[71]	-0.905	0.356	-1.642	-1.134	-0.881	-0.653
##	theta[72]	-0.996	0.378	-1.799	-1.238	-0.966	-0.729
##	theta[73]	-2.094	0.631	-3.500	-2.482	-2.031	-1.639
##	theta[74]	0.691	0.262	0.211	0.510	0.678	0.864
##	theta[75]	-1.039	0.382	-1.863	-1.271	-1.008	-0.785
##	theta[76]	-2.493	0.731	-4.208	-2.921	-2.411	-1.973
##	theta[77]	-0.537	0.306	-1.187	-0.728	-0.524	-0.323
##	theta[78]	0.686	0.266	0.176	0.507	0.674	0.859
##	theta[79]	2.137	0.676	1.083	1.636	2.044	2.556
##	theta[80]	0.515	0.237	0.064	0.353	0.512	0.668
##	theta[81]	-1.069	0.377	-1.874	-1.306	-1.051	-0.802
##	theta[82]	0.866	0.279	0.344	0.675	0.854	1.038
##	theta[83]	-2.217	0.642	-3.646	-2.592	-2.159	-1.775
##	theta[84]	-0.440	0.289	-1.020	-0.632	-0.430	-0.241
##	theta[85]	-0.075	0.255	-0.580	-0.246	-0.073	0.099
##	theta[86]	0.483	0.253	0.010	0.311	0.479	0.643
##	theta[87]	0.573	0.251	0.092	0.405	0.567	0.738
##	theta[88]	1.000	0.292	0.459	0.802	0.982	1.185
##	theta[89]	2.116	0.680	1.044	1.623	2.023	2.508
##	theta[90]	1.273	0.346	0.680	1.026	1.245	1.503
##	theta[91]	0.388	0.247	-0.092	0.217	0.384	0.556
##	theta[92]	-1.302	0.437	-2.257	-1.578	-1.275	-0.992
##	theta[93]	1.203	0.343	0.605	0.966	1.177	1.415
##	theta[94]	1.437	0.405	0.759	1.150	1.399	1.677
##	theta[95]	2.090	0.696	1.049	1.596	1.982	2.463
##	theta[96]	1.358	0.370	0.721	1.102	1.331	1.584
##	theta[97]	-0.023	0.248	-0.517	-0.189	-0.020	0.148
##	theta[98]	-1.369	0.448	-2.346	-1.642	-1.337	-1.062
##	theta[99]	1.207	0.338	0.617	0.976	1.177	1.408
##	theta[100]	-1.313	0.418	-2.173	-1.584	-1.287	-1.024
##	theta[101]	-0.926	0.348	-1.661	-1.144	-0.908	-0.688
##	theta[102]	1.614	0.456	0.853	1.279	1.572	1.903
##	theta[103]	-0.915	0.365	-1.693	-1.151	-0.896	-0.665
##	theta[104]	1.516	0.405	0.826	1.225	1.487	1.764
##	theta[105]	0.608	0.254	0.124	0.438	0.600	0.771
##	theta[106]	-0.197	0.270	-0.750	-0.375	-0.192	-0.016
##	theta[107]	-0.540	0.300	-1.159	-0.740	-0.530	-0.335
##	theta[108]	2.109	0.667	1.069	1.650	2.022	2.467
##	theta[109]	0.237	0.244	-0.241	0.071	0.240	0.395
##	theta[110]	0.491	0.261	0.005	0.315	0.483	0.662
##	theta[111]	-1.272	0.430	-2.190	-1.547	-1.241	-0.966

	theta[112]	-2.508	0.794	-4.268	-2.971	-2.423	-1.932
	theta[113]	0.014	0.247	-0.473	-0.149	0.017	0.178
	theta[114]	0.125	0.241	-0.353	-0.036	0.127	0.287
##	theta[115]	0.431	0.234	-0.011	0.267	0.428	0.583
##	theta[116]	1.512	0.408	0.804	1.218	1.480	1.767
##	theta[117]	-2.237	0.625	-3.566	-2.631	-2.199	-1.793
##	theta[118]	-0.060	0.252	-0.573	-0.221	-0.054	0.112
	theta[119]	0.551	0.244	0.092	0.389	0.542	0.703
##	theta[120]	-2.504	0.812	-4.526	-2.886	-2.371	-1.967
##	theta[121]	-1.463	0.479	-2.541	-1.755	-1.420	-1.130
##	theta[122]	-0.797	0.344	-1.540	-1.008	-0.773	-0.563
##	theta[123]	-1.139	0.409	-2.028	-1.388	-1.112	-0.857
##	theta[124]	2.001	0.602	1.030	1.566	1.934	2.376
##	theta[125]	0.740	0.269	0.235	0.556	0.731	0.911
##	theta[126]	1.074	0.309	0.525	0.852	1.050	1.276
##	theta[127]	1.437	0.404	0.741	1.149	1.402	1.680
##	theta[128]	0.909	0.269	0.424	0.723	0.897	1.083
##	theta[129]	-0.034	0.250	-0.541	-0.200	-0.025	0.138
##	theta[130]	1.040	0.310	0.487	0.823	1.022	1.227
##	theta[131]	-0.702	0.313	-1.348	-0.900	-0.687	-0.482
##	theta[132]	0.466	0.245	-0.005	0.301	0.460	0.627
##	theta[133]	-0.466	0.284	-1.049	-0.642	-0.454	-0.273
##	theta[134]	-2.043	0.578	-3.335	-2.389	-1.997	-1.637
##	theta[135]	-1.782	0.531	-2.939	-2.094	-1.729	-1.400
##	theta[136]	1.453	0.422	0.741	1.158	1.413	1.695
##	theta[137]	0.319	0.246	-0.142	0.156	0.311	0.476
##	theta[138]	1.379	0.381	0.733	1.110	1.346	1.611
##	theta[139]	-1.866	0.579	-3.186	-2.206	-1.802	-1.463
##	theta[140]	1.328	0.371	0.682	1.064	1.304	1.553
##	theta[141]	0.245	0.249	-0.237	0.078	0.246	0.409
##	theta[142]	1.152	0.328	0.560	0.923	1.129	1.354
##	theta[143]	-1.273	0.424	-2.186	-1.536	-1.245	-0.979
##	theta[144]	-0.908	0.350	-1.645	-1.133	-0.891	-0.652
##	theta[145]	-0.769	0.332	-1.458	-0.986	-0.756	-0.529
##	theta[146]	0.903	0.269	0.412	0.716	0.891	1.076
##	theta[147]	1.210	0.334	0.621	0.979	1.188	1.418
	theta[148]	-2.474	0.729	-4.104	-2.934	-2.415	-1.959
##	theta[149]	0.598	0.254	0.124	0.425	0.589	0.762
	theta[150]	2.131	0.690	1.044	1.630	2.030	2.509
##	theta[151]	1.023	0.299	0.483	0.820	1.000	1.204
##	theta[152]	1.250	0.338	0.667	1.015	1.223	1.455
	theta[153]	1.045	0.313	0.481	0.829	1.027	1.248
##	theta[154]	1.268	0.359	0.649	1.017	1.243	1.486
##	theta[155]	0.896	0.271	0.398	0.705	0.880	1.072
##	theta[156]	1.275	0.351	0.650	1.029	1.256	1.498
##	theta[157]	0.880	0.278	0.375	0.690	0.869	1.049
##	theta[158]	0.085	0.236	-0.391	-0.073	0.090	0.243
##	theta[159]	0.299	0.239	-0.165	0.138	0.299	0.456
##	theta[160]	1.038	0.304	0.502	0.818	1.023	1.236
##	theta[161]	0.832	0.276	0.315	0.639	0.826	1.014
	theta[162]	1.208	0.348	0.622	0.963	1.186	1.414
	theta[163]	1.445	0.394	0.750	1.166	1.419	1.687
	theta[164]	1.288	0.361	0.670	1.023	1.266	1.515
##	theta[165]	-2.482	0.729	-4.184	-2.925	-2.392	-1.962

##	theta[166]	-1.848	0.555	-3.073	-2.187	-1.803	-1.462
	theta[167]	-1.712	0.524	-2.856	-2.026	-1.667	-1.338
	theta[168]	2.086	0.651	1.031	1.619	2.002	2.489
##	theta[169]	1.169	0.336	0.592	0.928	1.147	1.376
	theta[170]	-2.465	0.717	-4.081	-2.881	-2.380	-1.959
##	theta[171]	-0.402	0.263	-0.951	-0.574	-0.391	-0.225
##	theta[172]	0.753	0.270	0.252	0.568	0.743	0.926
##	theta[173]	2.178	0.720	1.065	1.661	2.068	2.554
##	theta[174]	-0.001	0.247	-0.493	-0.165	0.002	0.164
##	theta[175]	-0.634	0.321	-1.303	-0.839	-0.620	-0.409
##	theta[176]	-0.064	0.254	-0.569	-0.229	-0.056	0.109
##	theta[177]	0.365	0.253	-0.124	0.196	0.362	0.530
##	theta[178]	-0.622	0.307	-1.254	-0.814	-0.611	-0.409
##	theta[179]	0.584	0.256	0.079	0.407	0.577	0.755
##	theta[180]	1.139	0.323	0.559	0.911	1.122	1.340
##	theta[181]	-1.671	0.496	-2.760	-1.959	-1.623	-1.321
##	theta[182]	0.389	0.261	-0.115	0.214	0.385	0.563
##	theta[183]	0.242	0.249	-0.241	0.075	0.238	0.407
##	theta[184]	1.692	0.499	0.886	1.342	1.626	1.986
##	theta[185]	1.435	0.403	0.751	1.155	1.397	1.672
##	theta[186]	1.045	0.307	0.495	0.838	1.025	1.238
##	theta[187]	-0.789	0.316	-1.447	-0.997	-0.782	-0.565
##	theta[188]	-0.669	0.321	-1.362	-0.872	-0.646	-0.449
##	theta[189]	2.118	0.701	1.059	1.620	2.001	2.507
##	theta[190]	2.064	0.663	1.050	1.579	1.957	2.472
##	theta[191]	1.175	0.331	0.590	0.942	1.151	1.382
##	theta[192]	1.434	0.402	0.744	1.148	1.399	1.679
##	theta[193]	1.420	0.399	0.726	1.132	1.387	1.676
##	theta[194]	-0.279	0.258	-0.800	-0.445	-0.267	-0.105
##	theta[195]	-1.272	0.410	-2.155	-1.531	-1.237	-0.984
##	theta[196]	1.424	0.404	0.741	1.136	1.395	1.668
##	theta[197]	1.358	0.387	0.709	1.085	1.322	1.589
##	theta[198]	2.053	0.628	1.057	1.588	1.973	2.437
##	theta[199]	1.704	0.493	0.896	1.343	1.657	1.999
##	theta[200]	-0.572	0.295	-1.175	-0.764	-0.558	-0.369
##	theta[201]	2.128	0.706	1.073	1.641	2.016	2.496
##	theta[202]	1.205	0.329	0.622	0.976	1.184	1.411
##	theta[203]	0.771	0.270	0.263	0.588	0.760	0.947
##	theta[204]	1.395	0.380	0.719	1.133	1.369	1.631
##	theta[205]	-0.077	0.261	-0.598	-0.250	-0.072	0.099
##	theta[206]	0.386	0.246	-0.078	0.222	0.385	0.544
##	theta[207]	0.568	0.255	0.073	0.397	0.567	0.732
##	theta[208]	-0.240	0.263	-0.764	-0.409	-0.234	-0.060
##	theta[209]	1.154	0.327	0.592	0.924	1.127	1.360
##	theta[210]	2.152	0.727	1.058	1.650	2.046	2.519
##	theta[211]	-1.007	0.382	-1.807	-1.245	-0.986	-0.745
##	theta[212]	0.194	0.245	-0.293	0.033	0.197	0.357
##	theta[213]	2.082	0.653	1.036	1.607	2.011	2.467
##	theta[214]	1.522	0.416	0.816	1.226	1.487	1.772
##	theta[215]	-0.787	0.313	-1.433	-0.992	-0.771	-0.572
##	theta[216]	2.109	0.688	1.059	1.626	2.000	2.474
##	theta[217]	-2.081	0.605	-3.395	-2.456	-2.038	-1.651
##	theta[218]	1.137	0.321	0.551	0.922	1.116	1.333
##	theta[219]	0.173	0.234	-0.281	0.013	0.173	0.327

##	theta[220]	0.450	0.241	-0.017	0.286	0.447	0.610
##	theta[221]	0.192	0.242	-0.296	0.038	0.193	0.348
##	theta[222]	0.686	0.271	0.185	0.500	0.677	0.856
##	theta[223]	2.072	0.665	1.046	1.605	1.972	2.440
##	theta[224]	-2.195	0.678	-3.729	-2.600	-2.117	-1.708
##	theta[225]	1.041	0.308	0.478	0.828	1.025	1.238
##	theta[226]	-0.591	0.314	-1.255	-0.787	-0.569	-0.371
##	theta[227]	-2.518	0.787	-4.311	-2.984	-2.430	-1.950
##	theta[228]	-1.026	0.359	-1.775	-1.262	-1.000	-0.775
##	theta[229]	1.211	0.338	0.629	0.975	1.182	1.422
##	theta[230]	0.204	0.246	-0.264	0.036	0.202	0.367
##	theta[231]	-2.514	0.746	-4.232	-2.949	-2.417	-1.970
##	theta[232]	0.447	0.253	-0.035	0.277	0.440	0.613
##	theta[233]	-0.827	0.352	-1.583	-1.050	-0.802	-0.582
##	theta[234]	1.033	0.296	0.499	0.826	1.016	1.224
##	theta[235]	-0.740	0.327	-1.413	-0.952	-0.727	-0.517
##	theta[236]	-0.166	0.258	-0.680	-0.340	-0.158	0.007
##	theta[237]	-0.013	0.253	-0.504	-0.181	-0.015	0.153
##	theta[238]	1.404	0.385	0.741	1.131	1.375	1.648
##	theta[239]	-0.031	0.237	-0.506	-0.187	-0.031	0.132
##	theta[240]	-0.644	0.310	-1.282	-0.848	-0.633	-0.427
##	theta[241]	0.888	0.287	0.368	0.692	0.867	1.061
##	theta[242]	0.338	0.247	-0.146	0.174	0.340	0.503
##	theta[243]	0.613	0.261	0.106	0.435	0.609	0.782
##	theta[244]	-0.746	0.347	-1.495	-0.963	-0.730	-0.502
##	theta[245]	1.801	0.533	0.956	1.413	1.747	2.123
##	theta[246]	-2.086	0.623	-3.465	-2.471	-2.022	-1.649
##	theta[247]	0.921	0.283	0.421	0.720	0.910	1.108
##	theta[248]	1.073	0.315	0.513	0.853	1.053	1.265
##	theta[249]	-1.593	0.493	-2.665	-1.901	-1.549	-1.247
##	theta[250]	-1.165	0.409	-2.070	-1.413	-1.124	-0.879
##	theta[251]	-1.662	0.506	-2.718	-1.987	-1.632	-1.300
##	theta[252]	0.219	0.241	-0.269	0.060	0.221	0.382
##	theta[253]	-1.071	0.363	-1.842	-1.303	-1.060	-0.810
##	theta[254]	1.067	0.299	0.530	0.859	1.051	1.257
##	theta[255]	-0.764	0.319	-1.400	-0.973	-0.755	-0.543
##	theta[256]	0.874	0.269	0.381	0.686	0.857	1.050
##	theta[257]	2.055	0.651	1.026	1.585	1.966	2.441
##	theta[258]	1.162	0.327	0.577	0.932	1.140	1.364
##	theta[259]	0.347	0.253	-0.123	0.169	0.345	0.517
##	theta[260]	0.595	0.260	0.104	0.424	0.587	0.767
##	theta[261]	-1.287	0.425	-2.189	-1.555	-1.261	-0.989
##	theta[262]	0.780	0.257	0.299	0.604	0.768	0.943
##	theta[263]	-0.614	0.322	-1.293	-0.821	-0.591	-0.384
##	theta[264]	-1.467	0.478	-2.530	-1.765	-1.430	-1.133
##	theta[265]	-0.854	0.334	-1.548	-1.073	-0.833	-0.611
##	theta[266]	1.045	0.309	0.495	0.826	1.021	1.238
##	theta[267]	1.427	0.401	0.735	1.148	1.389	1.659
##	theta[268]	-0.158	0.257	-0.679	-0.327	-0.155	0.011
##	theta[269]	0.444	0.250	-0.025	0.279	0.436	0.605
##	theta[270]	0.935	0.294	0.403	0.729	0.914	1.121
##	theta[271]	-0.802	0.352	-1.541	-1.033	-0.776	-0.558
##	theta[272]	0.350	0.244	-0.112	0.185	0.348	0.504
##	theta[273]	1.286	0.349	0.668	1.038	1.262	1.509

##	theta[274]	-0.386	0.274	-0.937	-0.557	-0.376	-0.205
	theta[275]	2.099	0.663	1.070	1.630	2.004	2.488
##	theta[276]	-0.066	0.259	-0.591	-0.240	-0.061	0.111
	theta[277]	0.845	0.276	0.328	0.656	0.838	1.025
##	theta[278]	2.090	0.667	1.055	1.612	1.988	2.466
##	theta[279]	1.431	0.400	0.750	1.151	1.397	1.676
##	theta[280]	2.065	0.645	1.056	1.592	1.979	2.446
##	theta[281]	1.272	0.347	0.659	1.028	1.241	1.489
##	theta[282]	2.115	0.702	1.049	1.613	2.016	2.495
##	theta[283]	0.544	0.241	0.096	0.375	0.543	0.709
##	theta[284]	1.453	0.402	0.764	1.166	1.411	1.698
##	theta[285]	0.568	0.242	0.119	0.398	0.556	0.724
##	theta[286]	-0.950	0.336	-1.680	-1.157	-0.928	-0.720
##	theta[287]	0.793	0.266	0.307	0.611	0.780	0.961
##	theta[288]	1.059	0.309	0.511	0.847	1.039	1.257
##	theta[289]	0.535	0.252	0.062	0.361	0.526	0.701
##	theta[290]	1.283	0.353	0.666	1.031	1.261	1.503
##	theta[291]	-2.480	0.765	-4.229	-2.934	-2.399	-1.922
##	theta[292]	-0.370	0.273	-0.912	-0.557	-0.363	-0.176
##	theta[293]	-0.070	0.251	-0.587	-0.233	-0.071	0.100
##	theta[294]	-0.835	0.354	-1.596	-1.057	-0.813	-0.587
##	theta[295]	1.430	0.392	0.754	1.153	1.395	1.666
##	theta[296]	-1.307	0.422	-2.195	-1.581	-1.281	-1.011
##	theta[297]	-1.104	0.364	-1.875	-1.327	-1.086	-0.854
##	theta[298]	0.401	0.239	-0.054	0.237	0.397	0.559
##	theta[299]	-1.010	0.363	-1.787	-1.233	-0.995	-0.756
##	theta[300]	1.143	0.330	0.562	0.909	1.118	1.355
##	theta[301]	1.431	0.391	0.770	1.143	1.402	1.669
##	theta[302]	1.360	0.377	0.713	1.093	1.331	1.600
##	theta[303]	0.445	0.245	-0.021	0.282	0.441	0.603
##	theta[304]	-0.367	0.271	-0.935	-0.542	-0.356	-0.179
##	theta[305]	1.349	0.375	0.713	1.082	1.312	1.570
##	theta[306]	0.587	0.251	0.122	0.417	0.573	0.746
##	theta[307]	-0.546	0.299	-1.163	-0.744	-0.538	-0.333
##	theta[308]	-0.508	0.296	-1.121	-0.699	-0.492	-0.306
##	theta[309]	-1.605	0.503	-2.690	-1.917	-1.564	-1.248
##	theta[310]	-0.655	0.316	-1.333	-0.854	-0.646	-0.435
##	theta[311]	0.174	0.254	-0.341	-0.003	0.172	0.348
	theta[312]	-1.846	0.556	-3.016	-2.199	-1.791	-1.451
	theta[313]	0.610	0.259	0.108	0.433	0.606	0.777
	theta[314]	-0.571	0.305	-1.203	-0.765	-0.555	-0.358
	theta[315]	1.011	0.312	0.431	0.794	0.996	1.202
	theta[316]	-0.316	0.277	-0.874	-0.493	-0.317	-0.127
##	theta[317]	-0.421	0.288	-1.019	-0.610	-0.403	-0.223
##	theta[318]	0.663	0.263	0.162	0.485	0.655	0.834
##	theta[319]	0.927	0.291	0.405	0.725	0.909	1.114
##	theta[320]	-0.747	0.347	-1.463	-0.968	-0.729	-0.506
##	theta[321]	-0.313	0.279	-0.878	-0.498	-0.306	-0.120
##	theta[322]	1.117	0.318	0.552	0.894	1.093	1.320
##	theta[323]	1.428	0.391	0.761	1.148	1.392	1.678
	theta[324]	0.749	0.273	0.252	0.561	0.739	0.927
	theta[325]	1.054	0.309	0.501	0.832	1.032	1.253
	theta[326]	-0.616	0.314	-1.259	-0.820	-0.600	-0.399
##	theta[327]	-1.665	0.513	-2.818	-1.979	-1.623	-1.302

##	theta[328]	0.585	0.252	0.120	0.413	0.581	0.751
##	theta[329]	-0.069	0.260	-0.589	-0.247	-0.066	0.105
	theta[330]	-0.436	0.298	-1.046	-0.628	-0.420	-0.237
	theta[331]	-0.249	0.281	-0.838	-0.428	-0.242	-0.059
	theta[332]	0.087	0.249	-0.403	-0.076	0.085	0.251
##	theta[333]	-0.734	0.338	-1.441	-0.946	-0.716	-0.502
##	theta[334]	-2.215	0.653	-3.586	-2.633	-2.166	-1.751
##	theta[335]	0.718	0.264	0.220	0.538	0.710	0.892
##	theta[336]	0.014	0.257	-0.504	-0.154	0.017	0.189
##	theta[337]	-0.998	0.377	-1.812	-1.238	-0.974	-0.732
##	theta[338]	-0.919	0.364	-1.690	-1.147	-0.896	-0.667
##	theta[339]	0.278	0.253	-0.207	0.110	0.276	0.447
##	theta[340]	1.422	0.408	0.742	1.129	1.380	1.666
##	theta[341]	1.413	0.394	0.725	1.139	1.378	1.655
##	theta[342]	-2.194	0.636	-3.608	-2.589	-2.133	-1.731
##	theta[343]	-1.636	0.512	-2.727	-1.945	-1.593	-1.283
##	theta[344]	1.068	0.323	0.514	0.842	1.042	1.274
##	theta[345]	-1.653	0.507	-2.703	-1.986	-1.621	-1.286
##	theta[346]	1.113	0.322	0.551	0.892	1.096	1.314
##	theta[347]	-0.301	0.268	-0.860	-0.473	-0.292	-0.112
##	theta[348]	0.137	0.250	-0.368	-0.029	0.137	0.301
##	theta[349]	-0.331	0.290	-0.925	-0.517	-0.318	-0.134
##	theta[350]	0.870	0.273	0.362	0.684	0.853	1.046
##	theta[351]	1.630	0.482	0.841	1.286	1.571	1.918
##	theta[352]	-0.745	0.343	-1.476	-0.960	-0.720	-0.506
##	theta[353]	-1.595	0.489	-2.668	-1.912	-1.565	-1.241
##	theta[354]	1.440	0.409	0.734	1.149	1.408	1.694
##	theta[355]	-0.235	0.275	-0.784	-0.410	-0.231	-0.048
##	theta[356]	0.942	0.289	0.413	0.740	0.933	1.124
##	theta[357]	-0.086	0.266	-0.625	-0.259	-0.079	0.097
##	theta[358]	2.052	0.626	1.035	1.609	1.991	2.422
##	theta[359]	1.129	0.317	0.577	0.908	1.104	1.330
##	theta[360]	0.103	0.252	-0.393	-0.063	0.109	0.268
##	theta[361]	0.944	0.281	0.426	0.746	0.931	1.122
##	theta[362]	0.452	0.245	-0.027	0.285	0.448	0.612
##	theta[363]	1.044	0.300	0.511	0.831	1.028	1.239
##	theta[364]	-0.826	0.355	-1.582	-1.053	-0.800	-0.572
##	theta[365]	0.851	0.278	0.356	0.656	0.837	1.030
	theta[366]	0.285	0.253	-0.212	0.119	0.283	0.448
##	theta[367]	-0.841	0.358	-1.606	-1.071	-0.820	-0.593
##	theta[368]	1.074	0.307	0.520	0.862	1.059	1.268
##	theta[369]	1.291	0.358	0.652	1.038	1.265	1.515
##	theta[370]	1.428	0.396	0.747	1.144	1.395	1.675
##	theta[371]	-0.521	0.308	-1.152	-0.718	-0.504	-0.308
##	theta[372]	-0.749	0.353	-1.502	-0.969	-0.728	-0.506
##	theta[373]	-0.293	0.279	-0.863	-0.477	-0.285	-0.100
##	theta[374]	0.898	0.281	0.378	0.700	0.884	1.076
##	theta[375]	0.954	0.302	0.398	0.747	0.935	1.148
##	theta[376]	0.860	0.288	0.319	0.665	0.843	1.037
##	theta[377]	-0.750	0.347	-1.484	-0.968	-0.724	-0.510
##	theta[378]	0.077	0.256	-0.439	-0.085	0.078	0.247
##	theta[379]	0.149	0.257	-0.346	-0.027	0.146	0.319
##	theta[380]	-0.728	0.334	-1.424	-0.943	-0.711	-0.502
##	theta[381]	-0.311	0.284	-0.887	-0.498	-0.303	-0.114

##	theta[382]	-0.245	0.283	-0.820	-0.429	-0.242	-0.053
##	theta[383]	1.128	0.329	0.526	0.898	1.111	1.333
##	theta[384]	0.811	0.270	0.298	0.625	0.808	0.987
##	theta[385]	1.059	0.309	0.494	0.842	1.050	1.250
##	theta[386]	-0.021	0.250	-0.494	-0.191	-0.023	0.149
##	theta[387]	-0.742	0.339	-1.453	-0.958	-0.728	-0.508
##	theta[388]	-0.167	0.269	-0.693	-0.345	-0.165	0.018
##	theta[389]	1.425	0.398	0.748	1.144	1.387	1.665
##	theta[390]	-0.436	0.297	-1.037	-0.626	-0.427	-0.236
##	theta[391]	-0.295	0.280	-0.858	-0.472	-0.290	-0.103
##	theta[392]	-0.930	0.371	-1.710	-1.163	-0.912	-0.673
##	theta[393]	-0.832	0.367	-1.633	-1.055	-0.804	-0.577
##	theta[394]	2.065	0.660	1.057	1.603	1.960	2.420
##	theta[395]	-1.602	0.500	-2.716	-1.899	-1.560	-1.256
##	theta[396]	2.065	0.659	1.048	1.579	1.967	2.460
##	theta[397]	-1.608	0.489	-2.656	-1.921	-1.559	-1.257
##	theta[398]	-0.121	0.269	-0.680	-0.299	-0.109	0.059
##	theta[399]	-2.099	0.634	-3.479	-2.499	-2.046	-1.623
##	theta[400]	1.358	0.366	0.706	1.101	1.334	1.591
##	theta[401]	-0.033	0.256	-0.531	-0.204	-0.032	0.139
##	theta[402]	0.568	0.252	0.099	0.400	0.556	0.733
##	theta[403]	1.024	0.295	0.479	0.820	1.010	1.211
##	theta[404]	-0.378	0.294	-0.983	-0.573	-0.364	-0.171
##	theta[405]	0.865	0.277	0.335	0.680	0.853	1.046
##	theta[406]	-1.690	0.525	-2.869	-2.001	-1.650	-1.325
##	theta[407]	-0.483	0.304	-1.115	-0.678	-0.477	-0.277
##	theta[408]	-1.690	0.513	-2.823	-1.998	-1.665	-1.323
##	theta[409]	0.841	0.275	0.336	0.649	0.827	1.016
##	theta[410]	1.194	0.340	0.594	0.962	1.167	1.402
##	theta[411]	-0.382	0.286	-0.985	-0.571	-0.374	-0.188
##	theta[412]	-0.746	0.352	-1.497	-0.967	-0.730	-0.503
##	theta[413]	1.664	0.475	0.880	1.318	1.607	1.960
##	theta[414]	-1.170	0.398	-1.992	-1.421	-1.143	-0.891
##	theta[415]	-1.859	0.538	-3.002	-2.203	-1.823	-1.476
##	theta[416]	-0.413	0.287	-0.984	-0.600	-0.406	-0.213
##	theta[417]	-0.543	0.304	-1.189	-0.734	-0.532	-0.338
	theta[417]	-0.773	0.348	-1.504	-0.993	-0.749	-0.533
	theta[419]	-0.135					
	theta[410]	-0.436	0.271	-0.667 -1.049	-0.315 -0.624	-0.128 -0.420	0.050 -0.240
	theta[420]	-1.882	0.294	-3.171	-2.211	-1.834	-1.483
	theta[421]	0.741	0.262	0.251	0.561	0.737	0.910
	theta[423]	-1.751			-2.064		-1.389
			0.529	-2.934		-1.712	
	theta[424]	-0.645	0.330	-1.355	-0.854	-0.634	-0.415
	theta[425]	-0.652	0.337	-1.355	-0.870	-0.637	-0.422
	theta[426]	-1.708	0.521	-2.834	-2.033	-1.656	-1.347
	theta[427]	-0.638	0.315	-1.297	-0.841	-0.621	-0.422
	theta[428]	0.869	0.285	0.340	0.674	0.855	1.053
	theta[429]	1.055	0.312	0.488	0.843	1.037	1.256
	theta[430]	-0.624	0.331	-1.318	-0.831	-0.603	-0.395
	theta[431]	2.098	0.655	1.069	1.614	2.016	2.484
	theta[432]	0.981	0.306	0.432	0.774	0.970	1.171
	theta[433]	0.978	0.303	0.428	0.766	0.954	1.166
	theta[434]	1.054	0.309	0.492	0.838	1.044	1.245
##	theta[435]	-1.860	0.550	-3.089	-2.204	-1.829	-1.467

	theta[436]	-1.655	0.512	-2.749	-1.963	-1.625	-1.298
	theta[437]	-0.741	0.334	-1.481	-0.944	-0.717	-0.511
	theta[438]	0.100	0.256	-0.416	-0.071	0.105	0.269
	theta[439]	0.828	0.274	0.327	0.636	0.811	1.001
	theta[440]	0.869	0.281	0.337	0.680	0.858	1.048
	theta[441]	-1.610	0.500	-2.717	-1.918	-1.570	-1.259
	theta[442]	-1.692	0.508	-2.820	-1.998	-1.656	-1.340
	theta[443]	0.839	0.275	0.339	0.650	0.830	1.009
	theta[444]	0.279	0.255	-0.223	0.112	0.280	0.445
##	theta[445]	1.361	0.373	0.723	1.102	1.329	1.597
##	theta[446]	-1.682	0.510	-2.800	-2.000	-1.629	-1.333
##	theta[447]	0.684	0.260	0.201	0.503	0.673	0.849
##	theta[448]	0.374	0.248	-0.111	0.215	0.368	0.536
##	theta[449]	0.037	0.250	-0.473	-0.125	0.033	0.202
##	theta[450]	-0.571	0.311	-1.228	-0.774	-0.551	-0.359
##	theta[451]	-0.958	0.369	-1.753	-1.195	-0.932	-0.701
##	theta[452]	-0.520	0.299	-1.128	-0.711	-0.503	-0.308
##	theta[453]	1.320	0.371	0.666	1.068	1.288	1.543
##	theta[454]	-1.676	0.508	-2.839	-1.983	-1.631	-1.330
##	theta[455]	-0.422	0.275	-0.987	-0.601	-0.411	-0.232
##	theta[456]	1.162	0.332	0.561	0.935	1.139	1.378
##	theta[457]	-0.065	0.263	-0.604	-0.239	-0.060	0.118
##	theta[458]	1.113	0.325	0.537	0.891	1.091	1.316
##	theta[459]	1.094	0.323	0.519	0.869	1.076	1.297
##	theta[460]	0.129	0.252	-0.358	-0.037	0.127	0.299
##	theta[461]	0.291	0.246	-0.192	0.129	0.288	0.453
##	theta[462]	-0.941	0.361	-1.731	-1.168	-0.921	-0.689
##	theta[463]	-0.548	0.309	-1.186	-0.744	-0.528	-0.336
##	theta[464]	0.702	0.259	0.228	0.521	0.692	0.870
##	theta[465]	0.078	0.257	-0.434	-0.091	0.078	0.248
##	theta[466]	0.880	0.297	0.337	0.675	0.867	1.066
##	theta[467]	-0.486	0.302	-1.116	-0.674	-0.470	-0.278
##	theta[468]	1.427	0.383	0.762	1.161	1.397	1.673
##	theta[469]	0.173	0.252	-0.319	0.004	0.172	0.348
##	theta[470]	0.568	0.258	0.097	0.386	0.560	0.738
##	theta[471]	0.287	0.248	-0.182	0.121	0.283	0.461
##	theta[472]	1.060	0.310	0.504	0.844	1.041	1.248
##	theta[473]	0.930	0.297	0.392	0.726	0.914	1.119
##	theta[474]	0.929	0.297	0.402	0.725	0.910	1.120
##	theta[475]	-2.080	0.613	-3.474	-2.453	-2.012	-1.640
##	theta[476]	1.280	0.355	0.675	1.033	1.250	1.496
##	theta[477]	0.132	0.255	-0.370	-0.037	0.129	0.302
##	theta[478]	0.703	0.268	0.203	0.516	0.690	0.878
##	theta[479]	-0.312	0.281	-0.903	-0.492	-0.306	-0.120
##	theta[480]	0.779	0.272	0.270	0.593	0.767	0.955
##	theta[481]	0.849	0.282	0.324	0.651	0.838	1.032
##	theta[482]	-0.782	0.354	-1.548	-1.007	-0.765	-0.537
##	theta[483]	-0.104	0.272	-0.628	-0.282	-0.099	0.077
##	theta[484]	-0.126	0.271	-0.692	-0.306	-0.117	0.056
##	theta[485]	-0.124	0.267	-0.660	-0.297	-0.119	0.058
##	theta[486]	-0.073	0.255	-0.591	-0.243	-0.065	0.101
##	theta[487]	0.576	0.253	0.098	0.407	0.564	0.740
##	theta[488]	-0.640	0.328	-1.329	-0.851	-0.623	-0.409
##	theta[489]	0.842	0.281	0.323	0.646	0.829	1.022

## theta[490]	-0.567	0.307	-1.202	-0.768	-0.554	-0.350
## theta[491]	-1.651	0.507	-2.734	-1.960	-1.614	-1.304
## theta[492]	0.184	0.250	-0.309	0.015	0.182	0.351
## theta[493]	-2.177	0.642	-3.607	-2.555	-2.128	-1.723
## theta[494]	1.098	0.318	0.535	0.872	1.074	1.301
## theta[495]	-1.519	0.475	-2.547	-1.814	-1.485	-1.180
## theta[496]	0.644	0.265	0.136	0.463	0.638	0.814
## theta[497]	-1.753	0.518	-2.874	-2.082	-1.701	-1.389
## theta[498]	-2.018	0.595	-3.286	-2.388	-1.971	-1.591
## theta[499]	-1.921	0.581	-3.196	-2.285	-1.870	-1.501
## theta[500]	-0.948	0.370	-1.734	-1.190	-0.922	-0.696
## theta[501]	0.035	0.257	-0.483	-0.138	0.041	0.213
## theta[502]	-0.613	0.312	-1.254	-0.814	-0.596	-0.396
## theta[503]	-2.041	0.613	-3.385	-2.415	-1.991	-1.597
## theta[504]	-0.812	0.354	-1.583	-1.045	-0.794	-0.565
## theta[504]		0.334	-2.628	-1.868		-1.204
	-1.560		-3.109		-1.519	
## theta[506]	-1.926	0.546		-2.264	-1.892	-1.549
## theta[507]	-0.959	0.359	-1.710	-1.186	-0.942	-0.704
## theta[508]	-0.855	0.352	-1.618	-1.076	-0.835	-0.607
## theta[509]	-1.934	0.561	-3.114	-2.305	-1.904	-1.536
## theta[510]	-1.220	0.386	-2.061	-1.457	-1.201	-0.958
## theta[511]	-0.638	0.333	-1.345	-0.842	-0.615	-0.412
## theta[512]	-0.743	0.354	-1.505	-0.962	-0.725	-0.498
## theta[513]	0.649	0.260	0.157	0.477	0.644	0.815
## theta[514]	-0.744	0.336	-1.435	-0.959	-0.723	-0.514
## theta[515]	-0.807	0.350	-1.556	-1.027	-0.784	-0.567
## theta[516]	-0.696	0.334	-1.384	-0.905	-0.684	-0.463
## theta[517]	-1.384	0.448	-2.365	-1.662	-1.342	-1.068
## theta[518]	0.054	0.259	-0.464	-0.112	0.054	0.222
## theta[519]	-1.944	0.562	-3.155	-2.301	-1.899	-1.548
## theta[520]	0.509	0.257	0.030	0.340	0.502	0.673
## theta[521]	-1.163	0.382	-1.998	-1.404	-1.136	-0.890
## theta[522]	-1.780	0.543	-2.964	-2.106	-1.730	-1.393
## theta[523]	-1.817	0.516	-2.975	-2.133	-1.781	-1.458
## theta[524]	-1.672	0.510	-2.782	-1.984	-1.620	-1.321
## theta[525]	-1.369	0.416	-2.256	-1.638	-1.344	-1.078
## theta[526]	-1.819	0.559	-3.049	-2.159	-1.764	-1.416
## theta[527]	0.041	0.264	-0.474	-0.142	0.044	0.218
## theta[528]	0.040	0.255	-0.467	-0.131	0.042	0.214
## theta[529]	-1.740	0.517	-2.895	-2.051	-1.689	-1.382
## theta[530]	-1.359	0.418	-2.262	-1.623	-1.328	-1.058
## theta[531]	-1.239	0.399	-2.120	-1.485	-1.204	-0.966
## theta[532]	-2.452	0.712	-3.979	-2.904	-2.394	-1.930
## theta[533]	0.785	0.271	0.295	0.599	0.773	0.952
## theta[534]	-2.415	0.709	-3.973	-2.865	-2.374	-1.896
## theta[535]	0.728	0.268	0.234	0.543	0.715	0.906
## theta[536]	0.062	0.263	-0.466	-0.113	0.060	0.240
## theta.variance	1.599	0.354	0.994	1.341	1.565	1.826
## thetaS[1]	0.246	0.154	-0.046	0.142	0.243	0.344
## thetaS[2]	0.240	0.267	0.446	0.685	0.842	1.027
## thetaS[3]	-0.039	0.267	-0.386	-0.147	-0.034	0.072
## thetaS[4]	0.317	0.167	0.006	0.205	0.312	0.072
## thetaS[5]	-0.713	0.165	-1.298	-0.881	-0.694	-0.525
## thetaS[6]	-0.718	0.268	-1.287	-0.888	-0.705	-0.527

## th	netaS[7]	-1.218	0.382	-2.081	-1.439	-1.176	-0.948
## th	netaS[8]	-1.093	0.346	-1.885	-1.297	-1.059	-0.848
## th	netaS[9]	-0.845	0.288	-1.476	-1.025	-0.816	-0.640
## th	netaS[10]	-0.837	0.285	-1.432	-1.024	-0.816	-0.639
## th	netaS[11]	0.186	0.167	-0.131	0.076	0.185	0.288
## th	netaS[12]	0.329	0.161	0.012	0.221	0.326	0.436
## th	netaS[13]	-0.319	0.187	-0.712	-0.440	-0.311	-0.191
## th	netaS[14]	-0.867	0.280	-1.466	-1.038	-0.846	-0.673
## th	netaS[15]	-0.824	0.279	-1.429	-0.997	-0.806	-0.628
## th	netaS[16]	-0.415	0.197	-0.840	-0.541	-0.409	-0.275
## th	netaS[17]	-0.591	0.228	-1.078	-0.736	-0.578	-0.434
## th	netaS[18]	-0.870	0.291	-1.498	-1.041	-0.848	-0.669
## th	netaS[19]	-0.684	0.257	-1.236	-0.848	-0.669	-0.504
## th	netaS[20]	-1.354	0.420	-2.285	-1.613	-1.304	-1.054
## th	netaS[21]	0.553	0.185	0.227	0.424	0.539	0.673
## th	netaS[22]	0.317	0.162	0.013	0.206	0.309	0.426
## th	netaS[23]	1.352	0.448	0.672	1.033	1.291	1.603
## th	netaS[24]	0.020	0.157	-0.306	-0.086	0.023	0.127
## th	netaS[25]	0.102	0.162	-0.221	0.000	0.106	0.206
## th	netaS[26]	-1.419	0.428	-2.381	-1.686	-1.375	-1.109
## th	netaS[27]	-0.643	0.251	-1.203	-0.786	-0.622	-0.473
	netaS[28]	-1.623	0.506	-2.813	-1.896	-1.562	-1.258
	netaS[29]	-0.599	0.251	-1.126	-0.755	-0.581	-0.423
	netaS[30]	1.357	0.449	0.665	1.038	1.287	1.601
	netaS[31]	0.357	0.161	0.054	0.250	0.351	0.458
	netaS[32]	1.400	0.485	0.671	1.048	1.316	1.674
	netaS[33]	0.803	0.235	0.401	0.639	0.784	0.946
	netaS[34]	0.364	0.161	0.059	0.255	0.355	0.467
	netaS[35]	0.650	0.202	0.309	0.510	0.634	0.771
	netaS[36]	0.176	0.158	-0.134	0.074	0.178	0.280
	netaS[37]	-0.083	0.162	-0.413	-0.186	-0.081	0.026
	netaS[38]	0.055	0.164	-0.263	-0.053	0.053	0.163
	netaS[39]	0.684	0.202	0.334	0.544	0.667	0.807
	netaS[40]	-0.619	0.247	-1.162	-0.771	-0.602	-0.450
	netaS[41]	-1.428	0.458	-2.502	-1.675	-1.366	-1.118
	netaS[42]	1.361	0.442	0.670	1.048	1.300	1.611
	netaS[43]	0.813	0.232	0.420	0.650	0.794	0.956
	netaS[44]	-0.912	0.304	-1.602	-1.092	-0.882	-0.700
	netaS[45]	0.679	0.205	0.315	0.540	0.665	0.803
	netaS[46]	0.394	0.162	0.092	0.285	0.385	0.498
	netaS[47]	-0.678	0.252	-1.231	-0.827	-0.659	-0.502
	netaS[48]	-0.204	0.170	-0.553	-0.317	-0.201	-0.090
	netaS[49]	-1.178	0.358	-1.971	-1.385	-1.146	-0.924
	netaS[50]	0.377	0.164	0.080	0.265	0.371	0.479
	netaS[51]	-1.313	0.392	-2.208	-1.554	-1.267	-1.033
	netaS[52]	-0.330	0.198	-0.746	-0.449	-0.317	-0.197
	netaS[53]	-0.385	0.199	-0.806	-0.510	-0.375	-0.248
	netaS[54]	0.763	0.238	0.363	0.595	0.740	0.900
	netaS[54]	0.021	0.164	-0.307	-0.082	0.740	0.300
	netaS[56]	1.371	0.104	0.665	1.043	1.309	1.642
	netaS[57]	0.924	0.443	0.474	0.735	0.893	1.042
	netaS[57]	-1.423	0.272	-2.366	-1.683	-1.379	-1.126
	netaS[59]	-0.614	0.421	-2.366	-0.765	-0.595	-0.435
	netaS[60]	0.518	0.250	0.189	0.391	0.504	0.631
## UI	re rap [OO]	0.518	0.104	0.109	0.391	0.504	0.031

##	thetaS[61]	-0.818	0.283	-1.466	-0.988	-0.797	-0.617
##	thetaS[62]	-1.322	0.396	-2.196	-1.564	-1.279	-1.036
##	thetaS[63]	0.278	0.160	-0.028	0.169	0.273	0.381
##	thetaS[64]	0.533	0.185	0.214	0.404	0.519	0.646
##	thetaS[65]	0.171	0.162	-0.146	0.064	0.169	0.276
##	thetaS[66]	-0.022	0.155	-0.332	-0.124	-0.023	0.082
##	thetaS[67]	0.265	0.157	-0.034	0.162	0.263	0.363
##	thetaS[68]	-1.400	0.424	-2.326	-1.671	-1.354	-1.094
##	thetaS[69]	-1.573	0.501	-2.739	-1.862	-1.508	-1.220
##	thetaS[70]	-0.285	0.176	-0.669	-0.396	-0.276	-0.163
##	thetaS[71]	-0.582	0.232	-1.081	-0.730	-0.566	-0.415
##	thetaS[72]	-0.640	0.251	-1.200	-0.786	-0.620	-0.469
##	thetaS[73]	-1.346	0.416	-2.267	-1.592	-1.309	-1.059
##	thetaS[74]	0.443	0.171	0.140	0.326	0.437	0.550
##	thetaS[75]	-0.669	0.256	-1.216	-0.823	-0.646	-0.497
##	thetaS[76]	-1.606	0.499	-2.721	-1.898	-1.545	-1.251
##	thetaS[77]	-0.345	0.198	-0.764	-0.474	-0.335	-0.208
##	thetaS[78]	0.440	0.174	0.118	0.323	0.432	0.547
##	thetaS[79]	1.372	0.441	0.687	1.046	1.314	1.639
##	thetaS[80]	0.332	0.156	0.042	0.224	0.326	0.432
##	thetaS[81]	-0.686	0.244	-1.215	-0.842	-0.669	-0.517
##	thetaS[82]	0.558	0.186	0.213	0.430	0.546	0.670
##	thetaS[83]	-1.425	0.426	-2.390	-1.679	-1.389	-1.122
##	thetaS[84]	-0.285	0.191	-0.689	-0.408	-0.275	-0.153
##	thetaS[85]	-0.049	0.166	-0.378	-0.158	-0.046	0.064
##	thetaS[86]	0.309	0.164	0.007	0.199	0.304	0.410
##	thetaS[87]	0.368	0.164	0.063	0.259	0.360	0.475
##	thetaS[88]	0.644	0.201	0.308	0.503	0.627	0.764
##	thetaS[89]	1.356	0.440	0.696	1.037	1.295	1.600
##	thetaS[90]	0.819	0.234	0.425	0.653	0.791	0.959
##	thetaS[91]	0.249	0.160	-0.058	0.140	0.243	0.356
##	thetaS[92]	-0.836	0.286	-1.493	-1.005	-0.812	-0.638
##	thetaS[93]	0.773	0.226	0.376	0.615	0.755	0.915
##	thetaS[94]	0.922	0.262	0.481	0.740	0.894	1.081
##	thetaS[95]	1.345	0.457	0.648	1.011	1.272	1.597
##	thetaS[96]	0.878	0.264	0.432	0.694	0.851	1.035
	thetaS[97]	-0.015	0.159	-0.328	-0.121	-0.013	0.093
	thetaS[98]	-0.879	0.292	-1.508	-1.058	-0.855	-0.675
	thetaS[99]	0.775	0.219	0.402	0.616	0.758	0.907
	thetaS[100]	-0.846	0.286	-1.458	-1.021	-0.829	-0.645
	thetaS[101]	-0.598	0.236	-1.114	-0.743	-0.577	-0.431
	thetaS[102]	1.040	0.316	0.537	0.817	1.006	1.210
	thetaS[103]	-0.588	0.239	-1.113	-0.735	-0.571	-0.423
##	thetaS[104]	0.983	0.305	0.488	0.767	0.940	1.161
##	thetaS[105]	0.392	0.169	0.082	0.277	0.380	0.499
##	thetaS[106]	-0.128	0.176	-0.490	-0.247	-0.119	-0.011
##	thetaS[107]	-0.351	0.203	-0.776	-0.484	-0.337	-0.209
##	thetaS[108]	1.360	0.456	0.671	1.034	1.296	1.618
##	thetaS[109]	0.151	0.450	-0.158	0.046	0.150	0.255
##	thetaS[109]	0.131	0.167	0.004	0.201	0.130	0.233
##	thetaS[110]	-0.819	0.107	-1.438	-0.996	-0.798	-0.612
	thetaS[111]	-1.601	0.483	-2.640	-1.908	-1.545	-1.245
	thetaS[112]	0.008	0.463	-0.305	-0.094	0.011	0.114
	thetaS[113]	0.008	0.159	-0.303	-0.094	0.011	0.114
##	one rap[114]	0.001	0.130	0.222	0.022	0.002	0.100

##	thetaS[115]	0.277	0.153	-0.006	0.174	0.272	0.374
##	thetaS[116]	0.977	0.294	0.505	0.766	0.945	1.150
##	thetaS[117]	-1.448	0.459	-2.516	-1.712	-1.394	-1.114
##	thetaS[118]	-0.037	0.161	-0.358	-0.143	-0.033	0.072
##	thetaS[119]	0.355	0.162	0.061	0.244	0.344	0.457
##	thetaS[120]	-1.601	0.487	-2.706	-1.884	-1.529	-1.249
##	thetaS[121]	-0.941	0.316	-1.634	-1.133	-0.913	-0.722
##	thetaS[122]	-0.511	0.223	-1.002	-0.644	-0.496	-0.362
##	thetaS[123]	-0.731	0.264	-1.296	-0.898	-0.714	-0.543
##	thetaS[124]	1.286	0.399	0.648	1.001	1.231	1.512
##	thetaS[125]	0.476	0.176	0.151	0.352	0.470	0.586
##	thetaS[126]	0.690	0.207	0.332	0.548	0.672	0.820
##	thetaS[127]	0.922	0.261	0.470	0.740	0.896	1.077
##	thetaS[128]	0.587	0.190	0.261	0.456	0.571	0.705
##	thetaS[129]	-0.020	0.161	-0.347	-0.126	-0.017	0.703
##	thetaS[130]		0.101	0.347			0.794
	thetas[130]	0.668			0.525	0.658	
##		-0.452	0.206	-0.897	-0.584	-0.439	-0.308
##	thetaS[132]	0.301	0.162	-0.003	0.190	0.294	0.403
##	thetaS[133]	-0.301	0.186	-0.693	-0.418	-0.290	-0.176
##	thetaS[134]	-1.311	0.376	-2.123	-1.542	-1.276	-1.050
##	thetaS[135]	-1.145	0.348	-1.914	-1.358	-1.111	-0.906
##	thetaS[136]	0.933	0.279	0.470	0.744	0.905	1.094
##	thetaS[137]	0.206	0.159	-0.089	0.099	0.201	0.307
##	thetaS[138]	0.887	0.256	0.455	0.707	0.859	1.037
##	thetaS[139]	-1.199	0.383	-2.052	-1.417	-1.167	-0.930
##	thetaS[140]	0.852	0.241	0.439	0.681	0.832	1.001
##	thetaS[141]	0.158	0.161	-0.151	0.050	0.158	0.263
##	thetaS[142]	0.741	0.221	0.357	0.585	0.723	0.871
##	thetaS[143]	-0.818	0.278	-1.436	-0.986	-0.795	-0.621
##	thetaS[144]	-0.584	0.232	-1.087	-0.731	-0.564	-0.421
##	thetaS[145]	-0.494	0.217	-0.954	-0.627	-0.480	-0.343
##	thetaS[146]	0.582	0.185	0.253	0.455	0.572	0.697
##	thetaS[147]	0.777	0.219	0.393	0.628	0.763	0.909
##	thetaS[148]	-1.591	0.496	-2.765	-1.870	-1.538	-1.246
##	thetaS[149]	0.386	0.170	0.077	0.271	0.378	0.493
##	thetaS[150]	1.360	0.414	0.684	1.060	1.313	1.606
##	thetaS[151]	0.658	0.201	0.306	0.518	0.639	0.775
##	thetaS[152]	0.804	0.229	0.413	0.645	0.786	0.943
	thetaS[153]	0.671	0.207	0.306	0.528	0.655	0.800
	thetaS[154]	0.815	0.237	0.413	0.644	0.793	0.961
	thetaS[155]	0.577	0.185	0.253	0.444	0.561	0.697
	thetaS[156]	0.821	0.240	0.402	0.654	0.803	0.964
##	thetaS[157]	0.567	0.189	0.236	0.438	0.556	0.686
##	thetaS[157]	0.055	0.152	-0.251	-0.045	0.056	0.156
##	thetaS[159]	0.192	0.155	-0.103	0.043	0.000	0.130
##	thetaS[160]	0.192	0.133	0.103	0.522	0.131	0.292
	thetaS[160]						
## ##	thetaS[161] thetaS[162]	0.535	0.182	0.210	0.411	0.524	0.651
		0.777	0.237	0.386	0.610	0.756	0.919
##	thetaS[163]	0.929	0.263	0.483	0.746	0.905	1.082
##	thetaS[164]	0.828	0.241	0.417	0.656	0.806	0.975
##	thetaS[165]	-1.592	0.474	-2.683	-1.864	-1.536	-1.249
##	thetaS[166]	-1.185	0.360	-1.972	-1.402	-1.151	-0.926
##	thetaS[167]	-1.099	0.338	-1.838	-1.309	-1.073	-0.857
##	thetaS[168]	1.342	0.441	0.657	1.029	1.279	1.598

##	thetaS[169]	0.751	0.223	0.376	0.593	0.729	0.890
	thetaS[170]	-1.588	0.489	-2.690	-1.885	-1.525	-1.229
##	thetaS[171]	-0.257	0.170	-0.618	-0.361	-0.254	-0.143
##	thetaS[172]	0.486	0.183	0.153	0.359	0.477	0.599
##	thetaS[173]	1.397	0.459	0.683	1.061	1.342	1.670
##	thetaS[174]	0.001	0.159	-0.311	-0.103	0.001	0.108
##	thetaS[175]	-0.407	0.208	-0.842	-0.540	-0.396	-0.265
##	thetaS[176]	-0.039	0.162	-0.354	-0.148	-0.037	0.071
##	thetaS[177]	0.236	0.165	-0.078	0.124	0.231	0.341
##	thetaS[178]	-0.401	0.204	-0.832	-0.533	-0.393	-0.257
##	thetaS[179]	0.376	0.170	0.052	0.265	0.371	0.481
##	thetaS[180]	0.733	0.217	0.362	0.578	0.715	0.866
##	thetaS[181]	-1.075	0.335	-1.824	-1.270	-1.041	-0.841
##	thetaS[182]	0.249	0.167	-0.071	0.136	0.246	0.358
##	thetaS[183]	0.155	0.160	-0.150	0.048	0.153	0.260
##	thetaS[184]	1.086	0.324	0.562	0.856	1.043	1.284
##	thetaS[185]	0.922	0.266	0.469	0.737	0.899	1.084
##	thetaS[186]	0.671	0.203	0.307	0.531	0.657	0.800
##	thetaS[187]	-0.512	0.220	-0.996	-0.646	-0.497	-0.357
##	thetaS[188]	-0.429	0.207	-0.857	-0.556	-0.415	-0.288
##	thetaS[189]	1.363	0.476	0.674	1.035	1.280	1.599
##	thetaS[190]	1.321	0.417	0.672	1.022	1.260	1.566
##	thetaS[191]	0.755	0.220	0.366	0.603	0.740	0.891
##	thetaS[192]	0.920	0.261	0.474	0.732	0.899	1.080
##	thetaS[193]	0.912	0.265	0.465	0.724	0.896	1.073
##	thetaS[194]	-0.178	0.167	-0.522	-0.283	-0.171	-0.068
##	thetaS[195]	-0.820	0.281	-1.451	-0.988	-0.795	-0.618
##	thetaS[196]	0.915	0.266	0.465	0.733	0.888	1.070
##	thetaS[197]	0.872	0.254	0.448	0.691	0.847	1.026
##	thetaS[198]	1.321	0.423	0.666	1.008	1.261	1.569
##	thetaS[199]	1.099	0.340	0.547	0.856	1.056	1.301
##	thetaS[200]	-0.370	0.197	-0.789	-0.495	-0.358	-0.235
##	thetaS[201]	1.359	0.426	0.694	1.048	1.314	1.599
##	thetaS[202]	0.779	0.239	0.382	0.609	0.755	0.926
##	thetaS[203]	0.495	0.178	0.173	0.373	0.486	0.606
##	thetaS[204]	0.899	0.262	0.449	0.717	0.873	1.055
##	thetaS[205]	-0.048	0.168	-0.379	-0.160	-0.046	0.065
##	thetaS[206]	0.249	0.162	-0.053	0.141	0.244	0.352
##	thetaS[207]	0.365	0.166	0.051	0.254	0.362	0.473
##	thetaS[208]	-0.157	0.172	-0.517	-0.268	-0.151	-0.038
##	thetaS[209]	0.741	0.217	0.370	0.585	0.724	0.873
##	thetaS[210]	1.375	0.444	0.691	1.050	1.318	1.629
##	thetaS[211]	-0.646	0.246	-1.175	-0.799	-0.631	-0.473
##	thetaS[212]	0.124	0.159	-0.195	0.021	0.126	0.230
##	thetaS[213]	1.338	0.430	0.653	1.020	1.276	1.598
##	thetaS[214]	0.986	0.313	0.505	0.766	0.941	1.158
##	thetaS[215]	-0.509	0.213	-0.971	-0.641	-0.496	-0.361
##	thetaS[216]	1.356	0.455	0.673	1.037	1.286	1.611
##	thetaS[217]	-1.343	0.422	-2.278	-1.593	-1.310	-1.040
##	thetaS[218]	0.732	0.218	0.352	0.582	0.714	0.864
##	thetaS[219]	0.110	0.151	-0.181	0.009	0.112	0.207
	thetaS[220]	0.289	0.156	-0.011	0.184	0.283	0.392
	thetaS[221]	0.126	0.159	-0.186	0.024	0.123	0.228
	thetaS[222]	0.441	0.176	0.114	0.323	0.434	0.550

##	thetaS[223]	1.330	0.433	0.660	1.019	1.265	1.584
##	thetaS[224]	-1.402	0.414	-2.348	-1.655	-1.373	-1.102
##	thetaS[225]	0.669	0.208	0.302	0.526	0.651	0.792
##	thetaS[226]	-0.378	0.200	-0.816	-0.502	-0.363	-0.239
##	thetaS[227]	-1.606	0.472	-2.638	-1.887	-1.561	-1.272
##	thetaS[228]	-0.661	0.239	-1.160	-0.815	-0.648	-0.493
##	thetaS[229]	0.781	0.234	0.387	0.616	0.757	0.917
##	thetaS[230]	0.131	0.158	-0.172	0.023	0.125	0.237
##	thetaS[231]	-1.610	0.460	-2.616	-1.901	-1.569	-1.286
##	thetaS[232]	0.287	0.163	-0.024	0.176	0.284	0.392
##	thetaS[233]	-0.531	0.229	-1.042	-0.674	-0.515	-0.373
##	thetaS[234]	0.667	0.209	0.305	0.518	0.647	0.793
##	thetaS[235]	-0.479	0.222	-0.945	-0.620	-0.461	-0.322
##	thetaS[236]	-0.108	0.167	-0.449	-0.218	-0.103	0.005
##	thetaS[237]	-0.010	0.163	-0.334	-0.114	-0.010	0.101
##	thetaS[238]		0.163				1.061
		0.905		0.456	0.716	0.880	
##	thetaS[239]	-0.018	0.153	-0.323	-0.119	-0.019	0.085
##	thetaS[240]	-0.417	0.207	-0.860	-0.546	-0.404	-0.274
##	thetaS[241]	0.571	0.190	0.236	0.437	0.557	0.685
##	thetaS[242]	0.216	0.159	-0.092	0.111	0.213	0.319
##	thetaS[243]	0.395	0.174	0.066	0.279	0.387	0.501
##	thetaS[244]	-0.479	0.223	-0.939	-0.625	-0.465	-0.324
##	thetaS[245]	1.162	0.379	0.598	0.892	1.108	1.374
##	thetaS[246]	-1.336	0.394	-2.218	-1.568	-1.299	-1.055
##	thetaS[247]	0.594	0.193	0.260	0.456	0.586	0.718
##	thetaS[248]	0.690	0.208	0.320	0.546	0.676	0.820
##	thetaS[249]	-1.023	0.319	-1.718	-1.226	-1.006	-0.795
##	thetaS[250]	-0.750	0.272	-1.352	-0.910	-0.720	-0.562
##	thetaS[251]	-1.070	0.345	-1.815	-1.282	-1.044	-0.817
##	thetaS[252]	0.140	0.155	-0.169	0.038	0.142	0.243
##	thetaS[253]	-0.688	0.239	-1.187	-0.840	-0.674	-0.521
##	thetaS[254]	0.687	0.203	0.337	0.546	0.669	0.813
##	thetaS[255]	-0.495	0.219	-0.975	-0.633	-0.481	-0.342
##	thetaS[256]	0.562	0.178	0.240	0.440	0.549	0.671
##	thetaS[257]	1.319	0.425	0.658	1.016	1.257	1.564
##	thetaS[258]	0.747	0.218	0.368	0.598	0.732	0.877
##	thetaS[259]	0.223	0.164	-0.083	0.111	0.221	0.335
	thetaS[260]	0.383	0.170	0.070	0.265	0.377	0.493
	thetaS[261]	-0.826	0.279	-1.438	-0.995	-0.802	-0.631
	thetaS[262]	0.504	0.178	0.186	0.379	0.490	0.615
	thetaS[263]	-0.392	0.204	-0.817	-0.521	-0.381	-0.249
	thetaS[264]	-0.942	0.312	-1.653	-1.122	-0.913	-0.724
	thetaS[265]	-0.550	0.221	-1.039	-0.686	-0.530	-0.396
	thetaS[266]	0.672	0.204	0.315	0.528	0.657	0.795
##	thetaS[267]	0.916	0.264	0.466	0.734	0.891	1.069
##	thetaS[268]	-0.104	0.166	-0.440	-0.210	-0.099	0.006
## ##	thetaS[269] thetaS[270]	0.285	0.161	-0.018	0.176	0.280	0.387
		0.601	0.194	0.264	0.462	0.588	0.724
##	thetaS[271]	-0.516	0.231	-1.010	-0.663	-0.498	-0.356
##	thetaS[272]	0.225	0.158	-0.071	0.117	0.222	0.325
	thetaS[273]	0.827	0.237	0.424	0.664	0.806	0.970
	thetaS[274]	-0.251	0.183	-0.655	-0.363	-0.241	-0.127
	thetaS[275]	1.350	0.440	0.666	1.039	1.278	1.601
##	thetaS[276]	-0.044	0.168	-0.393	-0.155	-0.039	0.070

##	thetaS[277]	0.543	0.182	0.198	0.421	0.533	0.658
##	thetaS[278]	1.346	0.457	0.658	1.013	1.282	1.597
##	thetaS[279]	0.920	0.264	0.468	0.739	0.894	1.076
##	thetaS[280]	1.321	0.403	0.679	1.036	1.269	1.557
##	thetaS[281]	0.820	0.240	0.419	0.654	0.792	0.959
##	thetaS[282]	1.365	0.485	0.668	1.024	1.274	1.608
##	thetaS[283]	0.352	0.162	0.056	0.237	0.344	0.455
##	thetaS[284]	0.936	0.277	0.474	0.737	0.906	1.106
##	thetaS[285]	0.365	0.159	0.071	0.255	0.358	0.469
##	thetaS[286]	-0.614	0.235	-1.138	-0.751	-0.591	-0.455
##	thetaS[287]	0.512	0.185	0.187	0.386	0.499	0.620
##	thetaS[288]	0.680	0.202	0.329	0.541	0.658	0.805
##	thetaS[289]	0.344	0.165	0.040	0.233	0.337	0.450
##	thetaS[290]	0.826	0.240	0.423	0.658	0.801	0.968
##	thetaS[291]	-1.587	0.476	-2.630	-1.880	-1.544	-1.252
##	thetaS[291]	-0.242		-0.630	-0.361	-0.233	-0.112
			0.183				
##	thetaS[293]	-0.044	0.162	-0.370	-0.149	-0.044	0.066
##	thetaS[294]	-0.537	0.233	-1.040	-0.677	-0.519	-0.376
##	thetaS[295]	0.919	0.263	0.481	0.740	0.892	1.074
##	thetaS[296]	-0.840	0.281	-1.456	-1.015	-0.818	-0.645
##	thetaS[297]	-0.712	0.246	-1.241	-0.861	-0.691	-0.540
##	thetaS[298]	0.258	0.156	-0.036	0.151	0.254	0.360
##	thetaS[299]	-0.650	0.237	-1.165	-0.804	-0.637	-0.487
##	thetaS[300]	0.734	0.218	0.365	0.578	0.717	0.868
##	thetaS[301]	0.918	0.252	0.490	0.738	0.898	1.074
##	thetaS[302]	0.873	0.250	0.460	0.698	0.847	1.026
##	thetaS[303]	0.286	0.160	-0.013	0.178	0.280	0.387
##	thetaS[304]	-0.238	0.180	-0.621	-0.351	-0.228	-0.113
##	thetaS[305]	0.866	0.247	0.443	0.691	0.846	1.015
##	thetaS[306]	0.377	0.163	0.083	0.267	0.368	0.479
##	thetaS[307]	-0.352	0.199	-0.770	-0.477	-0.344	-0.215
##	thetaS[308]	-0.330	0.198	-0.750	-0.454	-0.318	-0.193
##	thetaS[309]	-1.030	0.327	-1.746	-1.227	-1.002	-0.797
##	thetaS[310]	-0.422	0.208	-0.870	-0.548	-0.407	-0.277
##	thetaS[311]	0.111	0.163	-0.209	-0.002	0.110	0.219
##	thetaS[312]	-1.188	0.373	-2.010	-1.404	-1.161	-0.923
##	thetaS[313]	0.392	0.169	0.069	0.278	0.386	0.501
	thetaS[314]	-0.367	0.200	-0.795	-0.493	-0.356	-0.229
	thetaS[315]	0.649	0.205	0.277	0.506	0.636	0.775
	thetaS[316]	-0.206	0.183	-0.589	-0.320	-0.204	-0.077
	thetaS[317]	-0.271	0.185	-0.653	-0.390	-0.261	-0.145
	thetaS[318]	0.426	0.172	0.104	0.307	0.420	0.540
##	thetaS[319]	0.595	0.172	0.258	0.460	0.583	0.715
##	thetaS[320]	-0.480	0.130	-0.938	-0.626	-0.469	-0.320
##	thetaS[321]	-0.203	0.181	-0.577	-0.320	-0.198	-0.075
##	thetaS[322]	0.719	0.213	0.352	0.569	0.701	0.849
##	thetaS[323]	0.713	0.213	0.332	0.736	0.701	1.075
## ##	thetaS[324] thetaS[325]	0.482	0.182	0.160	0.356	0.472	0.594
		0.678	0.211	0.312	0.533	0.661	0.803
##	thetaS[326]	-0.395	0.201	-0.821	-0.528	-0.384	-0.256
##	thetaS[327]	-1.070	0.341	-1.826	-1.278	-1.035	-0.824
	thetaS[328]	0.376	0.166	0.077	0.260	0.369	0.485
##	thetaS[329]	-0.045	0.169	-0.386	-0.155	-0.044	0.069
##	thetaS[330]	-0.282	0.197	-0.696	-0.408	-0.273	-0.149

##	thetaS[331]	-0.159	0.181	-0.541	-0.276	-0.153	-0.037
##	thetaS[332]	0.055	0.160	-0.270	-0.048	0.054	0.162
##	thetaS[333]	-0.473	0.227	-0.971	-0.612	-0.455	-0.314
##	thetaS[334]	-1.425	0.441	-2.435	-1.684	-1.375	-1.116
##	thetaS[335]	0.461	0.173	0.144	0.345	0.453	0.571
##	thetaS[336]	0.008	0.166	-0.331	-0.099	0.011	0.119
##	thetaS[337]	-0.640	0.246	-1.163	-0.792	-0.618	-0.472
##	thetaS[338]	-0.593	0.246	-1.128	-0.744	-0.574	-0.420
##	thetaS[339]	0.178	0.161	-0.140	0.072	0.178	0.284
##	thetaS[340]	0.913	0.268	0.463	0.724	0.888	1.073
##	thetaS[341]	0.907	0.258	0.458	0.726	0.886	1.067
##	thetaS[342]	-1.414	0.449	-2.472	-1.659	-1.362	-1.101
##	thetaS[343]	-1.052	0.338	-1.790	-1.271	-1.023	-0.805
##	thetaS[344]	0.686	0.214	0.311	0.538	0.669	0.816
##	thetaS[345]	-1.062	0.335	-1.809	-1.269	-1.035	-0.829
##	thetaS[346]	0.716	0.214	0.339	0.568	0.698	0.843
##	thetaS[347]	-0.194	0.175	-0.556	-0.308	-0.187	-0.072
##	thetaS[348]	0.086	0.160	-0.234	-0.019	0.087	0.193
##	thetaS[349]	-0.214	0.190	-0.614	-0.335	-0.206	-0.087
##	thetaS[350]	0.559	0.180	0.231	0.435	0.547	0.674
##	thetaS[351]	1.047	0.322	0.536	0.821	1.007	1.232
##	thetaS[352]	-0.481	0.228	-0.974	-0.616	-0.463	-0.321
##	thetaS[353]	-1.026	0.329	-1.759	-1.227	-0.992	-0.799
##	thetaS[354]	0.924	0.268	0.480	0.737	0.896	1.080
##	thetaS[355]	-0.153	0.180	-0.526	-0.262	-0.151	-0.032
##	thetaS[356]	0.607	0.198	0.260	0.468	0.592	0.724
##	thetaS[357]	-0.056	0.173	-0.405	-0.169	-0.053	0.063
##	thetaS[358]	1.316	0.402	0.664	1.029	1.270	1.549
##	thetaS[359]	0.727	0.216	0.365	0.575	0.702	0.855
##	thetaS[360]	0.065	0.163	-0.259	-0.040	0.070	0.173
##	thetaS[361]	0.608	0.194	0.266	0.471	0.592	0.730
##	thetaS[362]	0.290	0.159	-0.018	0.178	0.289	0.392
##	thetaS[363]	0.671	0.201	0.326	0.530	0.657	0.795
##	thetaS[364]	-0.530	0.234	-1.025	-0.678	-0.513	-0.360
##	thetaS[365]	0.548	0.188	0.218	0.416	0.535	0.666
##	thetaS[366]	0.183	0.164	-0.135	0.076	0.183	0.287
	thetaS[367]	-0.540	0.231	-1.029	-0.684	-0.525	-0.379
	thetaS[368]	0.692	0.209	0.330	0.546	0.673	0.820
	thetaS[369]	0.828	0.231	0.430	0.668	0.810	0.970
	thetaS[370]	0.919	0.270	0.476	0.731	0.889	1.081
	thetaS[371]	-0.339	0.204	-0.776	-0.464	-0.325	-0.193
	thetaS[372]	-0.479	0.226	-0.974	-0.617	-0.470	-0.318
	thetaS[373]	-0.188	0.180	-0.556	-0.308	-0.185	-0.063
##	thetaS[374]	0.578	0.189	0.243	0.445	0.563	0.694
##	thetaS[375]	0.612	0.196	0.266	0.474	0.600	0.739
##	thetaS[376]	0.552	0.185	0.207	0.425	0.543	0.668
##	thetaS[377]	-0.484	0.231	-0.983	-0.625	-0.469	-0.322
##	thetaS[378]	0.048	0.166	-0.281	-0.054	0.050	0.156
##	thetaS[379]	0.095	0.165	-0.226	-0.016	0.094	0.203
##	thetas[379]	-0.471	0.103	-0.220	-0.603	-0.455	-0.314
##	thetas[380]	-0.471	0.228	-0.595	-0.320	-0.433	-0.314
##	thetas[381]	-0.203	0.182	-0.529	-0.320	-0.193	-0.075
##	thetas[383]	0.725	0.162	0.333	0.570	0.708	0.862
##		0.725	0.221	0.333	0.378	0.708	0.637
##	[406] GBJ 511J	0.522	0.102	0.109	0.396	0.514	0.037

##	thetaS[385]	0.682	0.208	0.302	0.539	0.670	0.812
##	thetaS[386]	-0.015	0.162	-0.335	-0.121	-0.015	0.096
##	thetaS[387]	-0.478	0.223	-0.943	-0.619	-0.464	-0.321
##	thetaS[388]	-0.109	0.176	-0.474	-0.220	-0.103	0.012
##	thetaS[389]	0.916	0.267	0.477	0.728	0.893	1.072
##	thetaS[390]	-0.280	0.194	-0.695	-0.403	-0.269	-0.149
##	thetaS[391]	-0.190	0.183	-0.576	-0.300	-0.186	-0.065
##	thetaS[392]	-0.600	0.249	-1.149	-0.747	-0.582	-0.427
##	thetaS[393]	-0.535	0.237	-1.039	-0.677	-0.520	-0.370
##	thetaS[394]	1.327	0.429	0.651	1.019	1.256	1.581
##	thetaS[395]	-1.028	0.325	-1.764	-1.221	-0.995	-0.803
##	thetaS[396]	1.335	0.471	0.653	1.000	1.248	1.583
##	thetaS[397]	-1.036	0.330	-1.740	-1.238	-1.008	-0.805
##	thetaS[398]	-0.078	0.173	-0.437	-0.192	-0.070	0.038
##	thetaS[399]	-1.343	0.393	-2.208	-1.591	-1.310	-1.063
##	thetaS[400]	0.879	0.271	0.431	0.687	0.852	1.037
##	thetaS[401]	-0.022	0.164	-0.349	-0.130	-0.020	0.089
##	thetaS[402]	0.365	0.166	0.061	0.253	0.357	0.470
##	thetaS[403]	0.660	0.205	0.294	0.519	0.645	0.783
##	thetaS[404]	-0.241	0.188	-0.634	-0.363	-0.237	-0.111
##	thetaS[405]	0.557	0.186	0.219	0.431	0.548	0.678
##	thetaS[406]	-1.086	0.345	-1.851	-1.295	-1.055	-0.844
##	thetaS[407]	-0.309	0.196	-0.713	-0.435	-0.301	-0.177
##	thetaS[408]	-1.088	0.348	-1.860	-1.287	-1.055	-0.848
##	thetaS[409]	0.540	0.181	0.214	0.416	0.529	0.651
##	thetaS[410]	0.767	0.223	0.393	0.608	0.747	0.902
##	thetaS[411]	-0.248	0.190	-0.646	-0.366	-0.239	-0.120
##	thetaS[412]	-0.478	0.227	-0.974	-0.615	-0.462	-0.326
##	thetaS[413]	1.068	0.311	0.550	0.845	1.032	1.255
##	thetaS[414]	-0.752	0.267	-1.338	-0.910	-0.726	-0.572
##	thetaS[415]	-1.197	0.365	-1.998	-1.431	-1.164	-0.944
##	thetaS[416]	-0.264	0.185	-0.649	-0.382	-0.257	-0.137
##	thetaS[417]	-0.350	0.199	-0.770	-0.475	-0.340	-0.211
##	thetaS[418]	-0.497	0.230	-1.021	-0.639	-0.476	-0.334
##	thetaS[419]	-0.088	0.177	-0.457	-0.200	-0.081	0.031
##	thetaS[420]	-0.280	0.191	-0.701	-0.398	-0.271	-0.153
##	thetaS[421]	-1.209	0.371	-2.025	-1.446	-1.175	-0.939
##	thetaS[422]	0.476	0.173	0.164	0.354	0.470	0.586
	thetaS[423]	-1.125	0.346	-1.869	-1.335	-1.102	-0.877
##	thetaS[424]	-0.415	0.217	-0.875	-0.550	-0.399	-0.269
	thetaS[425]	-0.419	0.220	-0.881	-0.554	-0.408	-0.269
	thetaS[426]	-1.098	0.347	-1.867	-1.317	-1.065	-0.854
##	thetaS[427]	-0.410	0.205	-0.842	-0.538	-0.398	-0.270
##	thetaS[428]	0.559	0.190	0.218	0.427	0.551	0.682
##	thetaS[429]	0.678	0.207	0.310	0.538	0.665	0.803
##	thetaS[430]	-0.399	0.211	-0.825	-0.535	-0.387	-0.256
##	thetaS[431]	1.352	0.445	0.670	1.038	1.276	1.606
##	thetaS[432]	0.629	0.199	0.269	0.491	0.618	0.751
##	thetaS[433]	0.628	0.200	0.277	0.490	0.614	0.752
##	thetaS[434]	0.679	0.211	0.309	0.536	0.664	0.807
##	thetaS[435]	-1.199	0.380	-2.064	-1.435	-1.154	-0.925
##	thetaS[436]	-1.062	0.332	-1.783	-1.268	-1.027	-0.832
##	thetaS[437]	-0.476	0.218	-0.950	-0.608	-0.458	-0.327
##		0.064	0.167	-0.265	-0.044	0.066	0.174
					·		· -· -

##	thetaS[439]	0.533	0.181	0.212	0.407	0.522	0.651
##	thetaS[440]	0.559	0.188	0.219	0.429	0.547	0.675
##	thetaS[441]	-1.037	0.339	-1.827	-1.232	-1.002	-0.798
##	thetaS[442]	-1.087	0.334	-1.810	-1.304	-1.065	-0.848
##	thetaS[443]	0.540	0.184	0.215	0.413	0.528	0.656
##	thetaS[444]	0.179	0.164	-0.141	0.073	0.180	0.290
	thetaS[445]	0.877	0.104	0.453	0.692	0.100	1.028
##							
##	thetaS[446]	-1.077	0.319	-1.758	-1.267	-1.052	-0.852
##	thetaS[447]	0.440	0.171	0.132	0.319	0.434	0.547
##	thetaS[448]	0.239	0.161	-0.073	0.134	0.235	0.344
##	thetaS[449]	0.023	0.161	-0.307	-0.079	0.022	0.127
##	thetaS[450]	-0.367	0.202	-0.799	-0.493	-0.355	-0.225
##	thetaS[451]	-0.614	0.240	-1.138	-0.762	-0.596	-0.449
##	thetaS[452]	-0.334	0.195	-0.751	-0.457	-0.323	-0.200
##	thetaS[453]	0.848	0.244	0.434	0.675	0.825	1.001
##	thetaS[454]	-1.076	0.334	-1.821	-1.274	-1.038	-0.840
##	thetaS[455]	-0.271	0.177	-0.642	-0.382	-0.264	-0.151
##	thetaS[456]	0.747	0.221	0.362	0.592	0.731	0.888
##	thetaS[457]	-0.041	0.171	-0.384	-0.150	-0.037	0.075
##	thetaS[458]	0.715	0.216	0.345	0.562	0.697	0.850
	thetas[450]					0.687	
##		0.703	0.214	0.321	0.554		0.838
##	thetaS[460]	0.081	0.163	-0.242	-0.023	0.081	0.189
##	thetaS[461]	0.186	0.158	-0.121	0.083	0.183	0.287
##	thetaS[462]	-0.606	0.239	-1.114	-0.757	-0.592	-0.436
##	thetaS[463]	-0.356	0.206	-0.804	-0.488	-0.341	-0.214
##	thetaS[464]	0.453	0.175	0.136	0.331	0.442	0.566
##	thetaS[465]	0.048	0.167	-0.295	-0.057	0.051	0.159
##	thetaS[466]	0.564	0.191	0.221	0.435	0.554	0.682
##	thetaS[467]	-0.313	0.196	-0.727	-0.439	-0.301	-0.178
##	thetaS[468]	0.921	0.271	0.478	0.731	0.886	1.082
##	thetaS[469]	0.110	0.162	-0.213	0.003	0.109	0.218
##	thetaS[470]	0.365	0.167	0.065	0.251	0.359	0.469
##	thetaS[471]	0.184	0.161	-0.121	0.076	0.180	0.291
##	thetaS[471]	0.680	0.101	0.327	0.542	0.166	0.803
##	thetaS[473]	0.597	0.194	0.255	0.462	0.581	0.721
##	thetaS[474]	0.596	0.192	0.257	0.463	0.585	0.719
##	thetaS[475]	-1.338	0.411	-2.259	-1.585	-1.293	-1.053
##	thetaS[476]	0.823	0.238	0.417	0.655	0.801	0.965
##	thetaS[477]	0.084	0.163	-0.244	-0.022	0.083	0.193
##	thetaS[478]	0.452	0.176	0.134	0.332	0.439	0.560
##	thetaS[479]	-0.200	0.181	-0.578	-0.318	-0.193	-0.078
##	thetaS[480]	0.500	0.176	0.176	0.378	0.491	0.613
##	thetaS[481]	0.547	0.191	0.212	0.413	0.533	0.667
##	thetaS[482]	-0.501	0.228	-0.982	-0.643	-0.485	-0.341
##	thetaS[483]	-0.068	0.175	-0.431	-0.181	-0.064	0.049
##	thetaS[484]	-0.082	0.176	-0.447	-0.197	-0.074	0.034
##	thetaS[485]	-0.081	0.173	-0.430	-0.191	-0.077	0.037
##	thetaS[486]	-0.046	0.164	-0.369	-0.155	-0.042	0.064
##	thetaS[487]	0.370	0.165	0.065	0.258	0.363	0.480
##	thetaS[488]	-0.413	0.218	-0.903	-0.549	-0.395	-0.263
##	thetaS[489]	0.540	0.180	0.210	0.416	0.531	0.655
##	thetaS[490]	-0.367	0.204	-0.805	-0.493	-0.356	-0.225
##	thetaS[491]	-1.060	0.328	-1.772	-1.274	-1.031	-0.830
##	thetaS[492]	0.117	0.162	-0.205	0.009	0.118	0.221

```
## thetaS[493]
                      -1.396
                                0.416
                                         -2.344
                                                   -1.646
                                                             -1.348
                                                                       -1.105
## thetaS[494]
                       0.706
                                0.213
                                          0.334
                                                    0.559
                                                              0.687
                                                                        0.833
   thetaS[495]
                                0.318
                                                   -1.166
                      -0.977
                                         -1.683
                                                             -0.941
                                                                       -0.752
                       0.414
                                          0.088
                                                   0.295
                                                              0.408
                                                                        0.522
   thetaS[496]
                                0.173
##
   thetaS[497]
                      -1.128
                                0.352
                                         -1.919
                                                   -1.335
                                                            -1.094
                                                                       -0.879
   thetaS[498]
                      -1.294
                                0.383
                                         -2.124
                                                   -1.530
                                                             -1.262
                                                                       -1.028
##
   thetaS[499]
                      -1.229
                                0.367
                                         -2.059
                                                   -1.446
                                                             -1.198
                                                                       -0.973
   thetaS[500]
                      -0.610
                                0.245
                                         -1.150
                                                   -0.763
                                                             -0.594
                                                                       -0.438
##
   thetaS[501]
                       0.021
                                0.166
                                         -0.316
                                                   -0.089
                                                              0.026
                                                                        0.135
   thetaS[502]
                      -0.395
                                0.206
                                         -0.839
                                                   -0.524
                                                             -0.382
                                                                       -0.250
   thetaS[503]
                      -1.309
                                0.400
                                         -2.214
                                                   -1.538
                                                             -1.274
                                                                       -1.031
                      -0.522
   thetaS[504]
                                0.230
                                         -1.025
                                                   -0.664
                                                             -0.507
                                                                       -0.360
   thetaS[505]
                      -1.002
                                0.318
                                         -1.699
                                                   -1.199
                                                             -0.977
                                                                      -0.775
##
                                                                       -0.972
   thetaS[506]
                      -1.242
                                0.379
                                         -2.063
                                                   -1.470
                                                             -1.202
                                0.242
                                                   -0.763
                                                             -0.600
   thetaS[507]
                      -0.618
                                         -1.149
                                                                       -0.449
   thetaS[508]
                      -0.552
                                0.235
                                         -1.062
                                                   -0.694
                                                             -0.533
                                                                       -0.388
##
   thetaS[509]
                      -1.244
                                0.381
                                         -2.078
                                                   -1.475
                                                             -1.208
                                                                       -0.977
   thetaS[510]
                      -0.783
                                0.254
                                         -1.334
                                                   -0.935
                                                             -0.759
                                                                       -0.607
                                                             -0.393
   thetaS[511]
                      -0.410
                                0.216
                                         -0.871
                                                   -0.541
                                                                       -0.262
##
##
   thetaS[512]
                      -0.475
                                0.225
                                         -0.943
                                                   -0.616
                                                             -0.462
                                                                       -0.319
##
   thetaS[513]
                       0.418
                                0.171
                                          0.101
                                                    0.302
                                                              0.408
                                                                        0.526
   thetaS[514]
                      -0.478
                                0.220
                                         -0.944
                                                   -0.613
                                                             -0.466
                                                                       -0.329
                                0.225
                                                             -0.504
##
  thetaS[515]
                      -0.518
                                         -1.006
                                                   -0.656
                                                                       -0.364
##
   thetaS[516]
                      -0.447
                                0.219
                                         -0.913
                                                   -0.585
                                                             -0.433
                                                                       -0.294
##
   thetaS[517]
                      -0.888
                                0.289
                                         -1.519
                                                   -1.061
                                                             -0.866
                                                                       -0.683
   thetaS[518]
                       0.033
                                0.168
                                         -0.304
                                                   -0.072
                                                              0.034
                                                                        0.143
                      -1.249
                                0.368
                                         -2.018
                                                   -1.478
                                                             -1.223
                                                                       -0.986
   thetaS[519]
##
   thetaS[520]
                       0.326
                                0.164
                                          0.019
                                                   0.218
                                                              0.321
                                                                        0.427
   thetaS[521]
                      -0.747
                                0.252
                                         -1.305
                                                   -0.901
                                                             -0.726
                                                                       -0.569
   thetaS[522]
                      -1.140
                                0.345
                                         -1.878
                                                   -1.359
                                                             -1.115
                                                                       -0.896
   thetaS[523]
                      -1.166
                                0.334
                                         -1.889
                                                   -1.364
                                                             -1.143
                                                                       -0.933
##
   thetaS[524]
                      -1.073
                                0.331
                                         -1.801
                                                   -1.274
                                                             -1.041
                                                                       -0.842
   thetaS[525]
                      -0.880
                                0.274
                                         -1.470
                                                   -1.053
                                                             -0.864
                                                                       -0.686
                      -1.164
                                         -1.931
                                                             -1.133
   thetaS[526]
                                0.352
                                                   -1.374
                                                                       -0.916
   thetaS[527]
                       0.025
                                0.171
                                         -0.315
                                                   -0.090
                                                              0.028
                                                                        0.139
                       0.024
##
   thetaS[528]
                                0.166
                                         -0.307
                                                   -0.085
                                                              0.027
                                                                        0.138
   thetaS[529]
                      -1.118
                                0.340
                                         -1.871
                                                   -1.323
                                                             -1.082
                                                                       -0.878
  thetaS[530]
                      -0.872
                                0.274
                                         -1.478
                                                   -1.039
                                                             -0.856
                                                                       -0.679
   thetaS[531]
                      -0.795
                                0.260
                                         -1.376
                                                   -0.953
                                                             -0.776
                                                                       -0.616
##
##
   thetaS[532]
                      -1.578
                                0.478
                                         -2.656
                                                   -1.873
                                                             -1.526
                                                                       -1.239
   thetaS[533]
                       0.505
                                0.178
                                          0.189
                                                   0.382
                                                              0.492
                                                                        0.616
                      -1.550
                                0.467
                                         -2.585
                                                   -1.837
                                                             -1.509
                                                                       -1.221
   thetaS[534]
##
   thetaS[535]
                       0.468
                                0.175
                                          0.148
                                                    0.349
                                                              0.462
                                                                        0.576
                       0.038
                                                              0.038
##
   thetaS[536]
                                0.169
                                         -0.303
                                                   -0.071
                                                                        0.153
##
   deviance
                    7910.113
                               35.922 7840.900 7885.528 7909.033 7933.600
##
                       97.5%
                               Rhat n.eff
##
   lambda[1]
                       1.000 1.000
                                         1
                       1.963 1.036
   lambda[2]
                                       79
                       1.637 1.032
   lambda[3]
                                       87
   lambda[4]
                       0.976 1.038
                                       79
##
   lambda[5]
                       0.793 1.033
                                       87
## lambda[6]
                       1.493 1.039
                                       71
## lambda[7]
                       1.792 1.052
                                       56
## lambda[8]
                       0.820 1.029
                                        92
```

```
## lambda[9]
                      0.575 1.024
                                      110
## lambda[10]
                      2.015 1.035
                                       82
## lambda[11]
                      1.967 1.036
                                       76
## lambda[12]
                      1.289 1.040
                                       72
  lambda[13]
                      2.015 1.021
                                      150
## lambda[14]
                      1.503 1.033
                                       83
## lambda[15]
                      1.879 1.025
                                      110
## lambda[16]
                      1.302 1.030
                                       95
  lambda[17]
                      2.284 1.030
                                       92
## lambda[18]
                      1.608 1.038
                                       73
  lambda[19]
                      2.688 1.051
                                       61
                                       79
  lambda[20]
                      2.351 1.036
##
   lambdaS[1]
                      1.531 1.061
                                       51
   lambdaS[2]
                      2.272 1.005
                                      620
  lambdaS[3]
                      1.908 1.006
                                      490
   lambdaS[4]
                      1.108 1.003
                                      930
                      0.910 1.001
##
  lambdaS[5]
                                     4000
   lambdaS[6]
                      1.706 1.007
                                      510
## lambdaS[7]
                      2.050 1.010
                                      270
  lambdaS[8]
                      0.949 1.002
                                     2000
## lambdaS[9]
                      0.661 1.002
                                     1800
## lambdaS[10]
                      2.363 1.005
                                     1300
## lambdaS[11]
                      2.230 1.003
                                      960
  lambdaS[12]
                      1.457 1.007
                                      390
                      2.317 1.013
                                      200
## lambdaS[13]
  lambdaS[14]
                      1.701 1.002
                                     1300
  lambdaS[15]
                      2.134 1.004
                                      740
##
  lambdaS[16]
                      1.498 1.002
##
                                     2100
## lambdaS[17]
                      2.597 1.001
                                     2500
## lambdaS[18]
                      1.835 1.001
                                     4000
## lambdaS[19]
                      3.165 1.015
                                      500
## lambdaS[20]
                      2.705 1.005
                                      900
## mu[1]
                      0.234 1.001
                                     3300
## mu[2]
                      0.569 1.003
                                      850
## mu[3]
                      0.170 1.003
                                      930
## mu[4]
                      0.242 1.001
                                     3500
## mu[5]
                      0.401 1.001
                                     4000
## mu[6]
                      1.712 1.012
                                      230
## mu[7]
                     -0.394 1.003
                                     1100
## mu[8]
                      1.005 1.002
                                     2400
## mu[9]
                      0.553 1.001
                                     4000
## mu[10]
                     -0.529 1.003
                                     1200
## mu[11]
                      0.009 1.003
                                     1100
## mu[12]
                      1.145 1.003
                                     1000
## mu[13]
                     -0.969 1.009
                                      290
## mu[14]
                      1.220 1.003
                                      910
## mu[15]
                     -0.126 1.002
                                     2400
## mu[16]
                      0.993 1.003
                                     1100
## mu[17]
                     -0.284 1.004
                                      690
## mu[18]
                     -0.042 1.002
                                     2000
## mu[19]
                     -1.134 1.015
                                      410
## mu[20]
                     -0.531 1.004
                                      760
## theta[1]
                      0.851 1.001
                                     2700
## theta[2]
                      2.154 1.003
                                      860
```

```
## theta[3]
                      0.432 1.001
                                     4000
## theta[4]
                      1.018 1.007
                                      380
## theta[5]
                     -0.395 1.004
                                      790
                     -0.400 1.009
## theta[6]
                                      300
## theta[7]
                     -0.924 1.014
                                      190
                     -0.834 1.021
## theta[8]
                                      130
## theta[9]
                     -0.565 1.017
                                      170
## theta[10]
                     -0.527 1.019
                                      140
## theta[11]
                      0.794 1.004
                                     1100
## theta[12]
                      1.004 1.004
                                      800
## theta[13]
                      0.041 1.002
                                     2400
                     -0.578 1.016
## theta[14]
                                      180
##
  theta[15]
                     -0.536 1.009
                                      330
## theta[16]
                     -0.102 1.009
                                      280
## theta[17]
                     -0.307 1.005
                                      620
## theta[18]
                     -0.589 1.007
                                      400
                                      400
## theta[19]
                     -0.362 1.007
## theta[20]
                     -1.059 1.003
                                     1700
                      1.428 1.006
## theta[21]
                                      440
## theta[22]
                      0.997 1.005
                                      550
## theta[23]
                      3.756 1.007
                                      540
## theta[24]
                      0.513 1.002
                                     1900
## theta[25]
                      0.647 1.001
                                     4000
## theta[26]
                     -1.127 1.010
                                      260
## theta[27]
                     -0.341 1.005
                                      540
## theta[28]
                     -1.282 1.019
                                      180
## theta[29]
                     -0.247 1.004
                                      780
                      3.877 1.010
##
   theta[30]
                                      290
## theta[31]
                      1.041 1.003
                                      980
## theta[32]
                      3.779 1.010
                                      260
                      2.012 1.003
## theta[33]
                                     1000
## theta[34]
                      1.054 1.003
                                     1200
## theta[35]
                      1.647 1.003
                                      900
                      0.778 1.005
## theta[36]
                                      630
## theta[37]
                      0.352 1.002
                                     1600
## theta[38]
                      0.585 1.001
                                     4000
## theta[39]
                      1.695 1.004
                                      820
## theta[40]
                     -0.288 1.011
                                      240
## theta[41]
                     -1.098 1.006
                                      460
                      3.778 1.031
## theta[42]
                                       94
## theta[43]
                      2.020 1.015
                                      180
## theta[44]
                     -0.629 1.023
                                      120
## theta[45]
                      1.736 1.006
                                      430
## theta[46]
                      1.124 1.004
                                      800
                     -0.385 1.007
## theta[47]
                                      450
                      0.177 1.003
                                     1100
## theta[48]
## theta[49]
                     -0.955 1.006
                                      560
                      1.082 1.004
## theta[50]
                                      740
## theta[51]
                     -1.033 1.011
                                      340
## theta[52]
                      0.044 1.003
                                      980
                     -0.045 1.001
##
  theta[53]
                                     4000
## theta[54]
                      1.869 1.007
                                      420
## theta[55]
                      0.523 1.002
                                     1600
## theta[56]
                      3.724 1.004
                                    1100
```

##	theta[57]	2.341	1.006	480
##	theta[58]	-1.092	1.003	1200
##	theta[59]	-0.279	1.004	700
##	theta[60]	1.391	1.004	640
##	theta[61]	-0.528	1.007	410
##	theta[62]	-1.064	1.009	360
##	theta[63]	0.943	1.003	850
##	theta[64]	1.438	1.007	400
##	theta[65]	0.782	1.003	890
##	theta[66]	0.431	1.001	4000
##	theta[67]	0.902	1.004	790
##	theta[68]	-1.104	1.004	660
##	theta[69]	-1.206	1.035	89
##	theta[70]	0.048	1.002	1400
##	theta[71]	-0.277	1.003	1000
##	theta[72]	-0.329	1.004	660
##	theta[73]	-1.007	1.013	210
##	theta[74]	1.246	1.010	290
##	theta[75]	-0.345	1.008	340
##	theta[76]	-1.278	1.019	190
##	theta[77]	0.026	1.001	4000
##	theta[78]	1.228	1.006	450
##	theta[79]	3.696	1.016	170
##	theta[80]	0.991	1.001	3900
##	theta[81]	-0.402	1.012	230
##	theta[82]	1.451	1.005	520
##	theta[83]	-1.132	1.011	250
##	theta[84]	0.091	1.004	720
##	theta[85]	0.425	1.001	3400
##	theta[86]	1.017	1.006	450
##	theta[87]	1.081	1.006	510
##	theta[88]	1.615	1.009	340
##	theta[89]	3.674	1.013	220
##	theta[90]	2.003	1.008	330
##	theta[91]	0.879	1.004	640
##	theta[92]	-0.525	1.006	460
##	theta[93]	1.951	1.010	270
##	theta[94]	2.338	1.007	380
##	theta[95]	3.733	1.008	510
##	theta[96]	2.161	1.005	720
##	theta[97]	0.458	1.002	4000
##	theta[98]	-0.594	1.009	460
##	theta[99]	1.972	1.010	260
##	theta[100]	-0.563	1.002	2000
##	theta[101]	-0.297	1.004	830
##	theta[102]	2.607	1.004	750
##	theta[103]	-0.272	1.007	640
##	theta[104]	2.411	1.003	1200
##	theta[105]	1.130	1.003	1300
##	theta[106]	0.326	1.001	3600
##	theta[107]	0.024	1.003	1700
##	theta[108]	3.779	1.014	200
##	theta[109]	0.722	1.001	3000
##	theta[110]	1.023	1.002	1500

##	theta[111]	-0.537		190
##	theta[112]	-1.218	1.006	530
##	theta[113]	0.490	1.002	1800
##	theta[114]	0.601	1.001	3200
##	theta[115]	0.913	1.007	440
##	theta[116]	2.394	1.008	350
##	theta[117]	-1.149	1.008	350
##	theta[118]	0.412	1.002	2000
##	theta[119]	1.065	1.005	520
##	theta[120]	-1.291	1.079	56
##	theta[121]	-0.642	1.017	180
##	theta[122]	-0.176	1.004	720
##	theta[123]	-0.416	1.003	970
##	theta[124]	3.357	1.003	1300
##	theta[125]	1.294	1.005	530
##	theta[126]	1.730	1.005	510
##	theta[127]	2.339	1.013	200
##	theta[128]	1.453	1.006	450
##	theta[129]	0.436	1.003	2100
##	theta[130]	1.693	1.007	380
##	theta[131]	-0.133	1.006	510
##	theta[132]	0.970	1.005	750
##	theta[133]	0.055	1.001	4000
##	theta[134]	-1.023	1.016	170
##	theta[135]	-0.886	1.009	340
##	theta[136]	2.388	1.012	220
##	theta[137]	0.839	1.002	1700
##	theta[138]	2.206	1.009	290
##	theta[139]	-0.907	1.010	360
##	theta[140]	2.130	1.012	220
##	theta[141]	0.736	1.001	4000
##	theta[142]	1.867	1.007	420
##	theta[143]	-0.535	1.008	360
##	theta[144]	-0.290	1.003	1100
##	theta[145]	-0.166	1.011	250
##	theta[146]	1.477	1.007	410
##	theta[147]	1.922	1.006	450
##	theta[148]	-1.234	1.037	79
##	theta[149]	1.139	1.004	640
##	theta[150]	3.767	1.008	360
##	theta[151]	1.675	1.011	240
##	theta[152]	2.001	1.014	200
##	theta[153]	1.708	1.007	400
##	theta[154]	2.078	1.007	420
##	theta[155]	1.470	1.004	680
##	theta[156]	2.034	1.009	290
##	theta[157]	1.471	1.003	900
##	theta[158]	0.539	1.003	4000
##	theta[159]	0.771	1.001	1300
##	theta[160]	1.664	1.002	260
##	theta[161]	1.405	1.006	500
##	theta[162]	1.963	1.005	510
##	theta[163]	2.287	1.003	240
##	theta[164]	2.267	1.011	380
π#	011C 00 [104]	2.000	1.007	300

```
## theta[165]
                     -1.298 1.041
                                       82
                                      190
## theta[166]
                     -0.891 1.015
## theta[167]
                     -0.820 1.007
                                      400
## theta[168]
                      3.578 1.003
                                      970
##
  theta[169]
                      1.900 1.007
                                      360
                     -1.281 1.008
##
  theta[170]
                                      330
                       0.097 1.005
  theta[171]
                                      700
## theta[172]
                       1.304 1.008
                                      330
##
   theta[173]
                       3.913 1.014
                                      210
##
   theta[174]
                      0.485 1.001
                                     4000
   theta[175]
                     -0.052 1.002
                                     2000
                      0.416 1.005
##
  theta[176]
                                     1400
##
   theta[177]
                      0.879 1.002
                                     1700
   theta[178]
                     -0.051 1.005
                                      680
  theta[179]
                      1.094 1.004
                                      740
   theta[180]
                       1.834 1.005
                                      620
##
   theta[181]
                     -0.822 1.003
                                     1600
   theta[182]
                       0.911 1.005
                                      520
                      0.726 1.002
##
  theta[183]
                                     1800
## theta[184]
                      2.817 1.009
                                      280
##
  theta[185]
                      2.368 1.010
                                      270
   theta[186]
                       1.696 1.007
                                      430
## theta[187]
                     -0.202 1.008
                                      330
##
   theta[188]
                     -0.100 1.001
                                     4000
## theta[189]
                      3.823 1.015
                                      230
  theta[190]
                      3.603 1.018
                                      150
                       1.886 1.004
                                      640
## theta[191]
##
   theta[192]
                       2.318 1.007
                                      410
                       2.293 1.007
##
   theta[193]
                                      410
## theta[194]
                       0.201 1.001
                                     2900
## theta[195]
                     -0.560 1.006
                                      490
##
   theta[196]
                      2.342 1.006
                                      450
   theta[197]
                       2.198 1.016
                                      190
                      3.455 1.009
                                      320
  theta[198]
##
   theta[199]
                      2.817 1.011
                                      230
##
##
  theta[200]
                     -0.031 1.002
                                     1600
   theta[201]
                       3.816 1.023
                                      150
## theta[202]
                       1.899 1.007
                                      370
## theta[203]
                       1.345 1.004
                                      810
                       2.204 1.011
                                      240
## theta[204]
                       0.418 1.002
  theta[205]
                                     1300
## theta[206]
                      0.882 1.004
                                      810
##
   theta[207]
                       1.090 1.008
                                      370
   theta[208]
                      0.261 1.001
                                     4000
##
## theta[209]
                       1.846 1.009
                                      290
                       3.891 1.011
                                      250
## theta[210]
##
  theta[211]
                     -0.337 1.009
                                      310
##
   theta[212]
                      0.657 1.002
                                     2200
  theta[213]
                      3.573 1.004
                                      840
   theta[214]
                      2.457 1.009
                                      310
##
   theta[215]
                     -0.209 1.003
                                      940
## theta[216]
                      3.761 1.013
                                      220
## theta[217]
                     -1.042 1.019
                                      140
## theta[218]
                       1.840 1.007
                                      380
```

##	theta[219]	0.644	1.003	1000
##	theta[220]	0.941	1.003	1100
##	theta[221]	0.652	1.003	1200
##	theta[222]	1.256	1.006	430
##	theta[223]	3.641	1.003	1200
##	theta[224]	-1.065	1.037	83
##	theta[225]	1.700	1.005	530
##	theta[226]	-0.031	1.007	420
##	theta[227]	-1.243	1.006	430
##	theta[228]	-0.377	1.005	520
##	theta[229]	1.939	1.004	720
##	theta[230]	0.687	1.002	1300
##	theta[231]	-1.334	1.007	410
##	theta[232]	0.946	1.003	1000
##	theta[233]	-0.192	1.007	380
##	theta[234]	1.650	1.007	420
##	theta[235]	-0.150	1.002	1500
##	theta[236]	0.325	1.001	3000
##	theta[237]	0.488	1.001	4000
##	theta[238]	2.235	1.008	340
##	theta[239]	0.418	1.001	3400
##	theta[240]	-0.067	1.001	3900
##	theta[241]	1.521	1.008	380
##	theta[242]	0.825	1.002	1500
##	theta[243]	1.141	1.007	390
##	theta[244]	-0.114	1.002	1300
##	theta[245]	2.963	1.017	160
##	theta[246]	-1.075	1.024	160
##	theta[247]	1.502	1.010	280
##	theta[248]	1.758	1.009	290
##	theta[249]	-0.741	1.012	220
##	theta[250]	-0.458	1.010	300
##	theta[251]	-0.760	1.009	290
##	theta[252]	0.698	1.001	2700
##	theta[253]	-0.428	1.002	1800
##	theta[254]	1.719	1.009	300
##	theta[255]	-0.176	1.005	540
##	theta[256]	1.428	1.006	420
##	theta[257]	3.551	1.004	810
##	theta[258]	1.863	1.005	520
##	theta[259]	0.862	1.003	1200
##	theta[260]	1.135	1.004	810
##	theta[261]	-0.516	1.011	240
##	theta[262]	1.311	1.004	670
##	theta[263]	-0.040	1.005	600
##	theta[264]	-0.644	1.009	290
##	theta[265]	-0.269	1.008	340
##	theta[266]	1.712	1.008	350
##	theta[267]	2.331	1.009	290
##	theta[268]	0.346	1.001	2500
##	theta[269]	0.957	1.002	1700
##	theta[270]	1.563	1.009	310
##	theta[271]	-0.183	1.003	950
##	theta[272]	0.862	1.005	500
	5110 0 Q [21 2]	0.002	1.000	500

##	theta[273]	2.025	1.010	260
##	theta[274]	0.127	1.001	2700
##	theta[275]	3.606	1.021	140
##	theta[276]	0.425	1.003	1100
##	theta[277]	1.413	1.009	300
##	theta[278]	3.662	1.003	940
##	theta[279]	2.324	1.010	270
##	theta[280]	3.555	1.005	550
##	theta[281]	2.030	1.011	240
##	theta[282]	3.820	1.006	520
##	theta[283]	1.023	1.002	2200
##	theta[284]	2.341	1.007	360
##	theta[285]	1.068	1.005	560
##	theta[286]	-0.352	1.004	760
##	theta[287]	1.336	1.007	390
##	theta[288]	1.727	1.012	220
##	theta[289]	1.035	1.003	920
##	theta[290]	2.057	1.005	640
##	theta[291]	-1.240	1.028	110
##	theta[292]	0.141	1.004	670
##	theta[293]	0.413	1.001	4000
##	theta[294]	-0.197	1.009	370
##	theta[295]	2.294	1.015	180
##	theta[296]	-0.566	1.009	300
##	theta[297]	-0.456	1.009	320
##	theta[298]	0.886	1.004	790
##	theta[299]	-0.361	1.004	670
##	theta[300]	1.839	1.008	330
##	theta[301]	2.288	1.008	340
##	theta[302]	2.171	1.008	350
##	theta[303]	0.944	1.003	880
##	theta[304]	0.136	1.001	2800
##	theta[305]	2.176	1.011	250
##	theta[306]	1.115	1.004	780
##	theta[307]	0.008	1.002	2300
##	theta[308]	0.044	1.002	3900
##	theta[309]	-0.741	1.028	99
##	theta[310]	-0.083	1.003	970
##	theta[311]	0.673	1.002	1700
##	theta[312]	-0.902	1.039	74
##	theta[313]	1.133	1.005	550
##	theta[314]	-0.025	1.005	450
##	theta[314]	1.674	1.005	520
##	theta[316]	0.217	1.003	4000
##	theta[317]	0.120	1.001	540
##	theta[318]	1.212	1.000	1600
##	theta[319]	1.531	1.002	
##	theta[319] theta[320]	-0.132	1.006	480
##	theta[321]		1.002	1300
		0.218		3100
##	theta[322]	1.792	1.009	290
##	theta[323]	2.303	1.007	360
##	theta[324]	1.334	1.004	630
##	theta[325]	1.720	1.008	350
##	theta[326]	-0.045	1.003	1100

##	theta[327]	-0.801	1.010	280
##	theta[328]	1.078	1.008	320
##	theta[329]	0.437	1.002	2000
##	theta[330]	0.116	1.010	270
##	theta[331]	0.268	1.004	680
##	theta[332]	0.580	1.002	2100
##	theta[333]	-0.114	1.005	570
##	theta[334]	-1.102	1.009	430
##	theta[335]	1.249	1.004	690
##	theta[336]	0.514	1.001	4000
##	theta[337]	-0.325	1.009	310
##	theta[338]	-0.271	1.002	1800
##	theta[339]	0.775	1.005	780
##	theta[340]	2.313	1.008	350
##	theta[341]	2.270	1.010	330
##	theta[342]	-1.131	1.009	400
##	theta[343]	-0.736	1.009	550
##	theta[344]	1.761	1.003	920
##	theta[345]	-0.775	1.002	1800
##	theta[346]	1.799	1.008	340
##	theta[347]	0.205	1.001	4000
##	theta[348]	0.630	1.002	1300
##	theta[349]	0.219	1.001	4000
##	theta[350]	1.429	1.010	270
##	theta[351]	2.701	1.011	280
##	theta[352]	-0.139	1.008	320
##	theta[353]	-0.747	1.011	240
##	theta[354]	2.343	1.009	300
##	theta[355]	0.298	1.002	4000
##	theta[356]	1.558	1.007	370
##	theta[357]	0.416	1.002	1400
##	theta[358]	3.505	1.029	93
##	theta[359]	1.807	1.013	210
##	theta[360]	0.600	1.003	1100
##	theta[361]	1.513	1.003	370
##	theta[362]	0.945	1.007	840
##	theta[363]	1.672	1.004	320
##	theta[364]			260
##	theta[365]	-0.209 1.445	1.010	220
##	theta[366]	0.792	1.013	680
##	theta[367]		1.003	
##	theta[368]	-0.202 1.727	1.010	270
				310
## ##	theta[369]	2.083	1.009	350
	theta[370]	2.279	1.010	260
##	theta[371]	0.037	1.001	4000
##	theta[372]	-0.124	1.004	750
##	theta[373]	0.245	1.003	1600
##	theta[374]	1.493	1.008	320
##	theta[375]	1.575	1.009	320
##	theta[376]	1.474	1.007	390
##	theta[377]	-0.136	1.004	700
##	theta[378]	0.576	1.001	2900
##	theta[379]	0.660	1.001	4000
##	theta[380]	-0.108	1.004	770

##	theta[381]	0.224	1.001	4000
##	theta[382]	0.286	1.002	2100
##	theta[383]	1.840	1.006	430
##	theta[384]	1.350	1.003	880
##	theta[385]	1.712	1.006	470
##	theta[386]	0.463	1.003	1200
##	theta[387]	-0.119	1.003	900
##	theta[388]	0.349	1.003	1000
##	theta[389]	2.310	1.007	420
##	theta[390]	0.112	1.003	850
##	theta[391]	0.234	1.004	770
##	theta[392]	-0.274	1.003	1100
##	theta[393]	-0.175	1.013	230
##	theta[394]	3.632	1.012	250
##	theta[395]	-0.741	1.007	430
##	theta[396]	3.574	1.004	700
##	theta[397]	-0.779	1.010	310
##	theta[398]	0.383	1.002	2100
##	theta[399]	-1.027	1.016	160
##	theta[400]	2.131	1.010	270
##	theta[401]	0.462	1.001	3700
##	theta[402]	1.093	1.006	440
##	theta[403]	1.649	1.007	400
##	theta[404]	0.159	1.003	1200
##	theta[405]	1.421	1.008	350
##	theta[406]	-0.779	1.008	590
##	theta[407]	0.090	1.002	2400
##	theta[408]	-0.799	1.007	460
##	theta[409]	1.398	1.006	470
##	theta[410]	1.906	1.010	260
##	theta[411]	0.163	1.003	930
##	theta[412]	-0.115	1.004	1000
##	theta[413]	2.716	1.013	210
##	theta[414]	-0.455	1.013	220
##	theta[415]	-0.940	1.020	140
##	theta[416]	0.128	1.002	1400
##	theta[417]	0.026	1.002	1100
##	theta[417]			350
##	theta[419]	-0.154 0.368	1.008	3800
##	theta[420]	0.308	1.005	1000
##	theta[420]	-0.904	1.003	200
##	theta[421]	1.277	1.017	420
##	theta[423]	-0.832	1.007	
##	theta[423]	-0.055	1.007	380 1000
##		-0.035	1.003	
##	theta[425] theta[426]	-0.036	1.003	970
				420
##	theta[427]	-0.054	1.008	430
##	theta[428]	1.457	1.007	390
##	theta[429]	1.715	1.011	240
##	theta[430]	-0.030	1.001	4000
##	theta[431]	3.575	1.021	130
##	theta[432]	1.635	1.008	390
##	theta[433]	1.629	1.006	460
##	theta[434]	1.706	1.007	390

##	theta[435]	-0.910	1.014	190
##	theta[436]	-0.773	1.007	390
##	theta[437]	-0.134	1.004	730
##	theta[438]	0.594	1.002	1400
##	theta[439]	1.410	1.008	330
##	theta[440]	1.452	1.007	730
##	theta[441]	-0.738	1.004	740
##	theta[442]	-0.810	1.009	300
##	theta[443]	1.443	1.003	970
##	theta[444]	0.780	1.002	4000
##	theta[445]	2.170	1.008	330
##	theta[446]	-0.812	1.010	360
##	theta[447]	1.229	1.002	1600
##	theta[448]	0.871	1.005	570
##	theta[449]	0.542	1.003	1100
##	theta[450]	-0.008	1.002	1400
##	theta[451]	-0.302	1.002	1300
##	theta[452]	0.029	1.003	950
##	theta[453]	2.135	1.009	300
##	theta[454]	-0.822	1.017	170
##	theta[455]	0.081	1.003	910
##	theta[456]	1.870	1.011	250
##	theta[457]	0.435	1.001	4000
##	theta[458]	1.795	1.006	480
##	theta[459]	1.786	1.005	500
##	theta[460]	0.618	1.003	880
##	theta[461]	0.786	1.003	970
##	theta[462]	-0.302	1.001	4000
##	theta[463]	0.014	1.002	1500
##	theta[464]	1.231	1.006	430
##	theta[465]	0.575	1.001	2700
##	theta[466]	1.504	1.009	320
##	theta[467]	0.080	1.003	980
##	theta[468]	2.233	1.009	300
##	theta[469]	0.666	1.004	820
##	theta[470]	1.091	1.004	770
##	theta[471]	0.770	1.002	1800
##	theta[472]	1.740	1.006	540
##	theta[473]	1.573	1.005	540
##	theta[474]	1.564	1.006	480
##	theta[475]	-1.065	1.028	110
##	theta[476]	2.042	1.009	290
##	theta[477]	0.644	1.001	3200
##	theta[478]	1.255	1.007	400
##	theta[479]	0.206	1.002	2400
##	theta[480]	1.336	1.006	440
##	theta[481]	1.452	1.010	510
##	theta[482]	-0.138	1.004	640
##	theta[483]	0.419	1.001	4000
##	theta[484]	0.383	1.001	3600
##	theta[485]	0.380	1.001	3100
##	theta[486]	0.427	1.002	1500
##	theta[487]	1.098	1.002	1500
##	theta[488]	-0.033	1.003	1300

```
## theta[489]
                      1.447 1.011
                                      230
## theta[490]
                      0.007 1.001
                                    2900
## theta[491]
                     -0.757 1.007
                                      600
## theta[492]
                      0.679 1.001
                                    2800
##
  theta[493]
                     -1.098 1.008
                                      660
##
  theta[494]
                      1.769 1.008
                                      360
  theta[495]
                     -0.721 1.010
                                      280
## theta[496]
                      1.187 1.003
                                      900
##
   theta[497]
                     -0.855 1.013
                                      210
##
   theta[498]
                     -0.998 1.015
                                      250
   theta[499]
                     -0.907 1.012
                                      220
                     -0.278 1.005
   theta[500]
                                      530
##
   theta[501]
                      0.535 1.001
                                    4000
   theta[502]
                     -0.036 1.008
                                      320
  theta[503]
                     -0.998 1.022
                                      140
   theta[504]
                     -0.185 1.011
                                      320
##
  theta[505]
                     -0.743 1.019
                                      180
   theta[506]
                     -0.955 1.004
                                      930
                     -0.309 1.003
##
  theta[507]
                                    1200
##
  theta[508]
                     -0.232 1.006
                                      460
##
  theta[509]
                     -0.939 1.006
                                      450
  theta[510]
                     -0.543 1.014
                                      210
                     -0.052 1.002
## theta[511]
                                    1900
                     -0.099 1.003
##
   theta[512]
                                     1000
##
  theta[513]
                      1.176 1.006
                                      460
   theta[514]
                     -0.128 1.010
                                      350
                     -0.176 1.011
                                      290
##
  theta[515]
##
   theta[516]
                     -0.087 1.004
                                      690
                     -0.609 1.006
##
   theta[517]
                                      440
  theta[518]
                      0.555 1.003
                                     2900
   theta[519]
                     -0.965 1.016
                                      260
##
   theta[520]
                      1.031 1.004
                                      660
   theta[521]
                     -0.495 1.003
                                      940
                     -0.846 1.012
   theta[522]
                                      220
##
   theta[523]
                     -0.928 1.007
                                      440
##
                     -0.799 1.010
##
   theta[524]
                                      260
   theta[525]
                     -0.628 1.005
                                      590
## theta[526]
                     -0.876 1.009
                                      320
## theta[527]
                      0.545 1.004
                                      780
                      0.530 1.001
## theta[528]
                                    3400
                     -0.845 1.007
   theta[529]
                                      360
  theta[530]
                     -0.637 1.003
                                     1200
##
##
   theta[531]
                     -0.519 1.018
                                      150
   theta[532]
                     -1.269 1.023
                                      120
##
  theta[533]
                      1.354 1.007
                                      410
                     -1.190 1.020
                                      250
## theta[534]
##
  theta[535]
                      1.291 1.007
                                      400
   theta[536]
                      0.568 1.004
                                      810
  theta.variance
                      2.344 1.061
                                       51
   thetaS[1]
                      0.555 1.005
                                      570
##
   thetaS[2]
                      1.503 1.014
                                      190
## thetaS[3]
                      0.283 1.001
                                     4000
## thetaS[4]
                      0.664 1.001
                                    4000
## thetaS[5]
                     -0.250 1.010
                                      300
```

##	thetaS[6]	-0.258 1	1.007	400
##	thetaS[7]	-0.580 1	1.013	400
##	thetaS[8]	-0.509 1	1.002	1300
##	thetaS[9]	-0.363 1	1.002	1900
##	thetaS[10]	-0.338 1	1.004	700
##	thetaS[11]		1.001	4000
##	thetaS[12]		1.003	1200
##	thetaS[13]		1.005	620
##	thetaS[14]		1.003	1000
##	thetaS[15]		1.007	370
##	thetaS[16]		1.007	690
##	thetaS[17]		1.008	370
##	thetaS[18]		1.012	300
##	thetaS[19]		1.009	280
##	thetaS[20]		1.003	170
##	thetaS[21]		1.008	320
##	thetaS[21]		1.003	2900
	thetaS[23]			
## ##			1.022 1.003	120
	thetaS[24]			1600
##	thetaS[25]		1.003 1.014	1200 180
	thetaS[26]			
##	thetaS[27] thetaS[28]		1.006 1.006	500
##				570
##	thetaS[29]		1.010	270
##	thetaS[30]		1.007	610
##	thetaS[31]		1.006	450
##	thetaS[32]		1.010	290
##	thetaS[33]		1.015	180
##	thetaS[34]		1.006	490
##	thetaS[35]		1.011	240
##	thetaS[36]		1.001	4000
##	thetaS[37]		1.001	3900
##	thetaS[38]		1.001	3600
##	thetaS[39]	1.134 1		190
##	thetaS[40]		1.002	2100
##	thetaS[41]		1.009	420
	thetaS[42]	2.426 1		1700
##	thetaS[43]	1.314 1		810
##	thetaS[44]		1.005	510
##	thetaS[45]	1.111 1		270
##	thetaS[46]		1.006	530
##	thetaS[47]	-0.247 1		530
##	thetaS[48]		1.002	1600
##	thetaS[49]		1.021	130
##	thetaS[50]		1.004	720
##	thetaS[51]		1.011	240
##	thetaS[52]		1.007	420
##	thetaS[53]		1.011	250
##	thetaS[54]		1.015	180
##	thetaS[55]		1.002	1500
##	thetaS[56]		1.021	130
##	thetaS[57]	1.541 1		170
##	thetaS[58]	-0.718 1		150
##	thetaS[59]	-0.181 1	1.012	260

##	thetaS[60]	0.908	1.007	410
##	thetaS[61]	-0.333	1.009	330
##	thetaS[62]	-0.663	1.007	370
##	thetaS[63]	0.608	1.003	2100
##	thetaS[64]	0.932	1.005	560
##	thetaS[65]	0.493	1.001	4000
##	thetaS[66]	0.275	1.001	4000
##	thetaS[67]	0.590	1.004	770
##	thetaS[68]	-0.692	1.027	100
##	thetaS[69]	-0.761	1.016	970
##	thetaS[70]	0.031	1.005	580
##	thetaS[71]	-0.172	1.017	160
##	thetaS[72]	-0.211	1.008	370
##	thetaS[73]	-0.628	1.010	270
##	thetaS[74]	0.814	1.002	1300
##	thetaS[75]	-0.220	1.003	1000
##	thetaS[76]	-0.821	1.030	120
##	thetaS[77]	0.017	1.006	510
##	thetaS[78]	0.806	1.005	570
##	thetaS[79]	2.372	1.017	150
##	thetaS[80]	0.649	1.007	420
##	thetaS[81]	-0.248	1.003	1100
##	thetaS[82]	0.956	1.008	330
##	thetaS[83]	-0.721	1.015	190
##	thetaS[84]	0.058	1.003	1100
##	thetaS[85]	0.270	1.002	2400
##	thetaS[86]	0.655	1.002	4000
##	thetaS[87]	0.708	1.003	940
##	thetaS[88]	1.082	1.006	480
##	thetaS[89]	2.426	1.008	330
##	thetaS[90]	1.338	1.010	260
##	thetaS[91]	0.569	1.002	3400
##	thetaS[92]	-0.336	1.009	340
##	thetaS[93]	1.272	1.006	460
##	thetaS[94]	1.509	1.009	290
##	thetaS[95]	2.444	1.016	160
##	thetaS[96]	1.477	1.012	220
##	thetaS[97]	0.295	1.001	4000
##	thetaS[98]	-0.369	1.010	290
##	thetaS[99]	1.257	1.006	430
##	thetaS[100]	-0.360	1.020	150
##	thetaS[101]	-0.184	1.008	360
##	thetaS[102]	1.758	1.013	210
##	thetaS[103]	-0.163	1.005	540
##	thetaS[104]	1.692	1.020	130
##	thetaS[105]	0.750	1.007	420
##	thetaS[106]	0.210	1.001	4000
##	thetaS[107]	0.016	1.005	530
##	thetaS[108]	2.453	1.013	210
##	thetaS[109]	0.463	1.001	4000
##	thetaS[110]	0.661	1.010	330
##	thetaS[111]	-0.333	1.002	2500
##	thetaS[112]	-0.800	1.020	150
##	thetaS[113]	0.318	1.002	1400

```
## thetaS[114]
                       0.401 1.003
                                    1100
## thetaS[115]
                       0.600 1.002
                                     2000
## thetaS[116]
                      1.651 1.008
                                      320
## thetaS[117]
                     -0.714 1.025
                                      130
##
  thetaS[118]
                      0.277 1.001
                                     4000
                      0.693 1.002
## thetaS[119]
                                     1500
  thetaS[120]
                     -0.817 1.012
                                      340
## thetaS[121]
                     -0.396 1.009
                                      540
   thetaS[122]
                     -0.114 1.006
                                      600
   thetaS[123]
                     -0.262 1.010
                                      290
   thetaS[124]
                       2.219 1.022
                                      120
                      0.847 1.008
  thetaS[125]
                                      360
##
   thetaS[126]
                       1.155 1.010
                                      260
   thetaS[127]
                       1.511 1.009
                                      300
  thetaS[128]
                       1.007 1.007
                                      410
   thetaS[129]
                       0.285 1.001
                                     3200
##
   thetaS[130]
                      1.110 1.006
                                      440
   thetaS[131]
                     -0.087 1.004
                                      810
                      0.641 1.003
##
  thetaS[132]
                                      990
## thetaS[133]
                      0.037 1.006
                                      480
##
  thetaS[134]
                     -0.669 1.008
                                      380
   thetaS[135]
                     -0.554 1.014
                                      220
## thetaS[136]
                       1.565 1.009
                                      310
##
   thetaS[137]
                       0.532 1.003
                                      930
## thetaS[138]
                      1.452 1.009
                                      310
  thetaS[139]
                     -0.563 1.018
                                      170
                       1.369 1.008
                                      350
  thetaS[140]
##
   thetaS[141]
                      0.479 1.001
                                     3200
                      1.223 1.008
   thetaS[142]
                                      340
  thetaS[143]
                     -0.334 1.005
                                      550
## thetaS[144]
                     -0.180 1.012
                                      240
##
   thetaS[145]
                     -0.106 1.001
                                     4000
   thetaS[146]
                      0.979 1.006
                                      460
                      1.260 1.011
   thetaS[147]
                                      230
##
   thetaS[148]
                     -0.794 1.008
                                      640
##
  thetaS[149]
                      0.730 1.004
                                      720
   thetaS[150]
                       2.280 1.009
                                      330
## thetaS[151]
                       1.105 1.005
                                      640
## thetaS[152]
                       1.324 1.006
                                      440
                       1.105 1.006
## thetaS[153]
                                      460
                       1.335 1.009
                                      290
  thetaS[154]
## thetaS[155]
                      0.975 1.008
                                      320
##
   thetaS[156]
                       1.330 1.009
                                      310
                       0.980 1.011
                                      250
   thetaS[157]
## thetaS[158]
                       0.352 1.001
                                     4000
                       0.506 1.001
                                     4000
## thetaS[159]
   thetaS[160]
                       1.107 1.005
                                      580
   thetaS[161]
                       0.914 1.005
                                      540
## thetaS[162]
                       1.304 1.012
                                      230
   thetaS[163]
                       1.533 1.007
                                      420
##
   thetaS[164]
                      1.375 1.010
                                      270
## thetaS[165]
                     -0.822 1.015
                                      240
## thetaS[166]
                     -0.580 1.029
                                      110
## thetaS[167]
                     -0.505 1.012
                                      220
```

```
## thetaS[168]
                      2.351 1.015
                                      180
                                      370
## thetaS[169]
                      1.249 1.008
                     -0.809 1.018
## thetaS[170]
                                      160
## thetaS[171]
                      0.064 1.001
                                     2500
##
  thetaS[172]
                      0.878 1.004
                                      720
                      2.459 1.004
##
  thetaS[173]
                                      790
                      0.322 1.001
  thetaS[174]
                                     4000
## thetaS[175]
                     -0.034 1.008
                                      350
   thetaS[176]
                      0.279 1.001
                                     4000
   thetaS[177]
                      0.575 1.002
                                     2400
   thetaS[178]
                     -0.033 1.006
                                      680
                      0.732 1.005
  thetaS[179]
                                      570
##
   thetaS[180]
                      1.223 1.011
                                      250
   thetaS[181]
                     -0.521 1.021
                                      130
## thetaS[182]
                      0.590 1.001
                                     4000
   thetaS[183]
                      0.483 1.005
                                      520
##
  thetaS[184]
                      1.817 1.014
                                      190
   thetaS[185]
                      1.512 1.009
                                      290
                      1.112 1.010
##
  thetaS[186]
                                      320
## thetaS[187]
                     -0.126 1.007
                                      460
##
  thetaS[188]
                     -0.060 1.007
                                      400
  thetaS[189]
                      2.548 1.025
                                      120
                      2.286 1.002
## thetaS[190]
                                     1300
                      1.231 1.011
   thetaS[191]
                                      240
## thetaS[192]
                      1.482 1.011
                                      240
  thetaS[193]
                      1.515 1.010
                                      270
                      0.136 1.002
                                     1800
## thetaS[194]
##
   thetaS[195]
                     -0.354 1.011
                                      270
                      1.507 1.010
   thetaS[196]
                                      260
## thetaS[197]
                      1.437 1.007
                                      400
## thetaS[198]
                      2.297 1.008
                                      370
   thetaS[199]
                      1.887 1.011
                                      340
   thetaS[200]
                     -0.016 1.004
                                      730
                      2.340 1.004
                                      970
  thetaS[201]
##
   thetaS[202]
                      1.301 1.010
                                      260
## thetaS[203]
                      0.867 1.011
                                      240
   thetaS[204]
                      1.482 1.007
                                      360
## thetaS[205]
                      0.285 1.002
                                     1700
## thetaS[206]
                      0.584 1.001
                                     3700
                      0.700 1.002
## thetaS[207]
                                     2100
                      0.164 1.004
  thetaS[208]
                                      690
## thetaS[209]
                      1.206 1.007
                                      400
##
   thetaS[210]
                      2.434 1.024
                                      120
                     -0.212 1.004
                                      680
   thetaS[211]
## thetaS[212]
                      0.435 1.003
                                     1100
                      2.331 1.016
## thetaS[213]
                                      160
  thetaS[214]
                      1.720 1.008
                                      350
   thetaS[215]
                     -0.130 1.008
                                      400
                                     1000
## thetaS[216]
                      2.437 1.003
## thetaS[217]
                     -0.636 1.008
                                      390
##
   thetaS[218]
                      1.214 1.011
                                      250
## thetaS[219]
                      0.422 1.003
                                     1200
## thetaS[220]
                      0.604 1.002
                                     1500
## thetaS[221]
                      0.454 1.003
                                    1600
```

##	thetaS[222]	0.817	1.005	610
##	thetaS[223]	2.328	1.021	140
##	thetaS[224]	-0.702	1.009	320
##	thetaS[225]	1.128	1.008	320
##	thetaS[226]	-0.019	1.003	1300
##	thetaS[227]	-0.830	1.017	170
##	thetaS[228]	-0.239	1.005	510
##	thetaS[229]	1.311	1.013	210
##	thetaS[230]	0.449	1.001	4000
##	thetaS[231]	-0.807	1.021	130
##	thetaS[232]	0.614	1.002	1600
##	thetaS[233]	-0.124	1.004	830
##	thetaS[234]	1.140	1.007	390
##	thetaS[235]	-0.090	1.008	340
##	thetaS[236]	0.209	1.003	1100
##	thetaS[237]	0.310	1.001	3800
##	thetaS[238]	1.504	1.009	310
##	thetaS[239]	0.279	1.002	3700
##	thetaS[240]	-0.042	1.008	340
##	thetaS[241]	0.974	1.005	570
##	thetaS[242]	0.540	1.002	2200
##	thetaS[243]	0.762	1.004	790
##	thetaS[244]	-0.071	1.008	390
##	thetaS[245]	2.002	1.008	480
##	thetaS[246]	-0.679	1.012	250
##	thetaS[247]	1.006	1.006	460
##	thetaS[248]	1.138	1.005	550
##	thetaS[249]	-0.459	1.006	440
##	thetaS[250]	-0.292	1.006	550
##	thetaS[251]	-0.500	1.005	620
##	thetaS[252]	0.447	1.001	2900
##	thetaS[253]	-0.262	1.022	130
##	thetaS[254]	1.139	1.008	330
##	thetaS[255]	-0.106	1.006	560
##	thetaS[256]	0.954	1.007	460
##	thetaS[257]	2.291	1.018	150
##	thetaS[258]	1.231	1.011	240
##	thetaS[259]	0.555	1.005	600
##	thetaS[260]	0.741	1.006	470
##	thetaS[261]	-0.340	1.003	1200
##	thetaS[262]	0.891	1.007	370
##	thetaS[263]	-0.027	1.002	2000
##	thetaS[264]	-0.413	1.006	480
##	thetaS[265]	-0.170	1.012	270
##	thetaS[266]	1.124	1.006	460
##	thetaS[267]	1.518	1.007	400
##	thetaS[268]	0.217	1.003	950
##	thetaS[269]	0.624	1.003	800
##	thetaS[270]	1.026	1.004	420
##	thetaS[271]	-0.111	1.007	420
##	thetaS[271]	0.549	1.007	4000
##	thetaS[273]	1.344	1.001	320
##	thetaS[274]	0.081	1.009	320
##	thetaS[274]	2.387	1.003	1100
πĦ	011C 000 [510]	2.501	1.000	1100

##	thetaS[276]	0.268		920
##	thetaS[277]	0.923	1.005	510
##	thetaS[278]	2.421		90
##	thetaS[279]	1.505		190
##	thetaS[280]	2.227		270
##	thetaS[281]	1.367		500
##	thetaS[282]	2.562	1.010	290
##	thetaS[283]	0.692	1.007	410
##	thetaS[284]	1.552	1.012	230
##	thetaS[285]	0.702	1.005	590
##	thetaS[286]	-0.207	1.008	370
##	thetaS[287]	0.912	1.006	420
##	thetaS[288]	1.108		550
##	thetaS[289]	0.684	1.004	690
##	thetaS[290]	1.373		140
##	thetaS[291]	-0.774	1.017	160
##	thetaS[292]	0.088	1.008	330
##	thetaS[293]	0.268	1.001	4000
##	thetaS[294]	-0.129	1.003	1200
##	thetaS[295]	1.528	1.007	430
##	thetaS[296]	-0.353	1.004	690
##	thetaS[297]	-0.284	1.005	610
##	thetaS[298]	0.573	1.005	730
##	thetaS[299]	-0.229	1.007	400
##	thetaS[300]	1.208	1.007	370
##	thetaS[301]	1.470	1.009	290
##	thetaS[302]	1.427	1.012	230
##	thetaS[303]	0.613	1.002	2000
##	thetaS[304]	0.086	1.003	1200
##	thetaS[305]	1.420	1.006	450
##	thetaS[306]	0.724	1.004	670
##	thetaS[307]	0.005	1.007	430
##	thetaS[308]	0.028	1.007	400
##	thetaS[309]	-0.469	1.002	1300
##	thetaS[310]	-0.053	1.005	560
##	thetaS[311]	0.437	1.001	4000
##	thetaS[312]	-0.563	1.003	1100
##	thetaS[313]	0.731	1.003	1100
##	thetaS[314]	-0.018	1.002	3500
##	thetaS[315]	1.101	1.008	350
##	thetaS[316]	0.136	1.005	630
##	thetaS[317]	0.076	1.001	4000
##	thetaS[318]	0.781	1.008	340
##	thetaS[319]	0.995	1.007	360
##	thetaS[320]	-0.081	1.009	310
##	thetaS[321]	0.136	1.004	640
##	thetaS[322]	1.189	1.006	490
##	thetaS[323]	1.519	1.009	290
##	thetaS[324]	0.873	1.006	490
##	thetaS[325]	1.136	1.007	380
##	thetaS[326]	-0.031	1.004	780
##	thetaS[327]	-0.506	1.008	380
##	thetaS[328]	0.721	1.002	1500
##	thetaS[329]	0.284	1.002	1500

```
## thetaS[330]
                      0.073 1.005
                                      600
## thetaS[331]
                      0.175 1.001
                                    2600
                      0.364 1.001
## thetaS[332]
                                    4000
## thetaS[333]
                     -0.075 1.003
                                    1700
##
  thetaS[334]
                     -0.693 1.018
                                      150
##
                      0.825 1.007
  thetaS[335]
                                      370
  thetaS[336]
                      0.329 1.001
                                    4000
## thetaS[337]
                     -0.221 1.003
                                    1200
   thetaS[338]
                     -0.167 1.009
                                      320
  thetaS[339]
                      0.488 1.001
                                    4000
  thetaS[340]
                      1.502 1.010
                                      270
                      1.478 1.014
  thetaS[341]
                                      240
   thetaS[342]
                     -0.713 1.011
                                      250
   thetaS[343]
                     -0.472 1.010
                                      260
## thetaS[344]
                      1.162 1.013
                                      210
   thetaS[345]
                     -0.491 1.019
                                      160
##
  thetaS[346]
                      1.203 1.007
                                      420
   thetaS[347]
                      0.131 1.003
                                      960
                      0.406 1.001
## thetaS[348]
                                    4000
## thetaS[349]
                      0.140 1.005
                                      530
## thetaS[350]
                      0.932 1.006
                                      470
  thetaS[351]
                      1.787 1.012
                                      230
## thetaS[352]
                     -0.084 1.003
                                     1000
   thetaS[353]
                     -0.4721.007
                                      380
## thetaS[354]
                      1.521 1.012
                                      230
  thetaS[355]
                      0.183 1.003
                                    1100
                      1.039 1.006
                                      470
## thetaS[356]
##
   thetaS[357]
                      0.266 1.003
                                    1000
                                      190
   thetaS[358]
                      2.255 1.014
## thetaS[359]
                      1.197 1.004
                                      690
## thetaS[360]
                      0.373 1.002
                                     1400
  thetaS[361]
                      1.031 1.007
                                      410
   thetaS[362]
                      0.610 1.003
                                     1100
                      1.110 1.008
                                      320
  thetaS[363]
   thetaS[364]
                     -0.137 1.007
                                      490
## thetaS[365]
                      0.958 1.003
                                    1000
   thetaS[366]
                      0.515 1.002
                                     1600
## thetaS[367]
                     -0.129 1.004
                                      790
## thetaS[368]
                      1.139 1.006
                                      480
                      1.321 1.011
                                      250
## thetaS[369]
                      1.525 1.008
                                      320
  thetaS[370]
## thetaS[371]
                      0.023 1.008
                                      320
                                    1500
##
   thetaS[372]
                     -0.079 1.003
                      0.156 1.001
                                    2800
   thetaS[373]
## thetaS[374]
                      0.990 1.008
                                      340
                      1.031 1.007
                                      370
## thetaS[375]
  thetaS[376]
                      0.939 1.009
                                      300
                                      970
   thetaS[377]
                     -0.081 1.003
## thetaS[378]
                      0.372 1.001
                                    4000
## thetaS[379]
                      0.417 1.002
                                    1800
##
  thetaS[380]
                     -0.069 1.005
                                      900
## thetaS[381]
                      0.141 1.002
                                    1600
## thetaS[382]
                      0.182 1.002
                                    1300
## thetaS[383]
                      1.205 1.009
                                      300
```

##	thetaS[384]	0.897		480
##	thetaS[385]	1.128	1.008	360
##	thetaS[386]	0.297		860
##	thetaS[387]	-0.072	1.011	280
##	thetaS[388]	0.220	1.006	490
##	thetaS[389]	1.518	1.010	270
##	thetaS[390]	0.075	1.007	450
##	thetaS[391]	0.152	1.006	470
##	thetaS[392]	-0.174		260
##	thetaS[393]	-0.109		1200
##	thetaS[394]	2.305		77
##	thetaS[395]	-0.476		300
##	thetaS[396]	2.494		240
##	thetaS[397]	-0.464	1.007	380
##	thetaS[398]	0.251		1000
##	thetaS[399]	-0.661		1200
##	thetaS[400]	1.497	1.012	220
##	thetaS[401]	0.283	1.001	4000
##	thetaS[402]	0.716	1.002	1300
##	thetaS[403]	1.117	1.006	430
##	thetaS[404]	0.108	1.003	890
##	thetaS[405]	0.954		370
##	thetaS[406]	-0.503	1.013	220
##	thetaS[407]	0.059	1.006	490
##	thetaS[408]	-0.501	1.029	110
##	thetaS[409]	0.932	1.007	420
##	thetaS[410]	1.260	1.005	530
##	thetaS[411]	0.103	1.006	480
##	thetaS[412]	-0.069	1.005	530
##	thetaS[413]	1.768	1.005	560
##	thetaS[414]	-0.292	1.002	1900
##	thetaS[415]	-0.554	1.012	240
##	thetaS[416]	0.084	1.007	410
##	thetaS[417]	0.015		1500
##	thetaS[418]	-0.098		630
##	thetaS[419]	0.242		2100
##	thetaS[420]	0.072		770
##	thetaS[421]	-0.584	1.006	470
##	thetaS[422]	0.848	1.006	510
##	thetaS[423]	-0.525	1.012	220
##	thetaS[424]	-0.035	1.004	980
##	thetaS[425]	-0.022	1.004	640
##	thetaS[426]	-0.519	1.022	130
##	thetaS[427]	-0.033	1.003	1200
##	thetaS[428]	0.957	1.004	650
##	thetaS[429]	1.135	1.004	750
##	thetaS[430]	-0.018	1.008	330
##	thetaS[431]	2.401	1.004	780
##	thetaS[432]	1.061	1.006	440
##	thetaS[433]	1.064	1.009	300
##	thetaS[434]	1.130	1.007	460
##	thetaS[435]	-0.571	1.007	440
##	thetaS[436]	-0.485	1.009	320
##	thetaS[437]	-0.088	1.005	610

##	thetaS[438]	0.387		3300
##	thetaS[439]	0.917		660
##	thetaS[440]	0.965		400
##	thetaS[441]	-0.467		200
##	thetaS[442]	-0.508	1.014	210
##	thetaS[443]	0.938	1.010	270
##	thetaS[444]	0.509	1.003	910
##	thetaS[445]	1.470	1.008	340
##	thetaS[446]	-0.512	1.010	270
##	thetaS[447]	0.797	1.008	340
##	thetaS[448]	0.558	1.002	2400
##	thetaS[449]	0.338	1.002	1400
##	thetaS[450]	-0.006	1.006	550
##	thetaS[451]	-0.199		270
##	thetaS[452]	0.017		570
##	thetaS[453]	1.376	1.009	310
##	thetaS[454]	-0.523	1.008	430
##	thetaS[455]	0.054		400
##	thetaS[456]	1.227		340
##	thetaS[457]	0.279	1.003	2500
##	thetaS[458]	1.180	1.012	220
##	thetaS[459]	1.160	1.010	280
##	thetaS[460]	0.399	1.002	1700
##	thetaS[461]	0.511		3800
##	thetaS[462]	-0.190		200
##	thetaS[463]	0.010		360
##	thetaS[464]	0.827	1.006	470
##	thetaS[465]	0.372	1.001	4000
##	thetaS[466]	0.972	1.005	550
##	thetaS[467]	0.049	1.003	1000
##	thetaS[468]	1.542	1.011	240
##	thetaS[469]	0.425		3800
##	thetaS[470]	0.707		690
##	thetaS[471]	0.516		2300
##	thetaS[472]	1.112		230
##	thetaS[473]	1.003		260
##	thetaS[474]	0.980	1.008	350
##	thetaS[475]	-0.668	1.027	130
##	thetaS[476]	1.342	1.007	390
##	thetaS[477]	0.404	1.001	3100
##	thetaS[478]	0.819	1.003	1100
##	thetaS[479]	0.133	1.001	2800
##	thetaS[480]	0.858	1.005	590
##	thetaS[481]	0.960	1.009	590
##	thetaS[482]	-0.088	1.002	1300
##	thetaS[483]	0.265	1.002	2300
##	thetaS[484]	0.247	1.001	4000
##	thetaS[485]	0.244	1.001	4000
##	thetaS[486]	0.278	1.001	3800
##	thetaS[487]	0.707	1.008	380
##	thetaS[488]	-0.023	1.003	920
##	thetaS[489]	0.920	1.005	540
##	thetaS[490]	0.004	1.004	750
##	thetaS[491]	-0.493	1.012	220

```
## thetaS[492]
                      0.430 1.004
                                    1400
## thetaS[493]
                     -0.709 1.021
                                     130
## thetaS[494]
                      1.163 1.009
                                     290
## thetaS[495]
                     -0.455 1.017
                                     160
## thetaS[496]
                      0.772 1.005
                                     510
## thetaS[497]
                     -0.544 1.007
                                     520
## thetaS[498]
                     -0.630 1.012
                                     240
## thetaS[499]
                     -0.597 1.014
                                     180
## thetaS[500]
                     -0.185 1.009
                                     370
## thetaS[501]
                      0.338 1.001
                                    4000
## thetaS[502]
                     -0.025 1.002
                                    2200
## thetaS[503]
                     -0.646 1.004
                                    1000
## thetaS[504]
                     -0.115 1.002
                                    1300
                     -0.466 1.003
## thetaS[505]
                                     850
## thetaS[506]
                     -0.605 1.031
                                      96
## thetaS[507]
                     -0.182 1.009
                                     340
## thetaS[508]
                     -0.144 1.004
                                     780
## thetaS[509]
                     -0.604 1.010
                                     270
                     -0.349 1.004
## thetaS[510]
                                     680
## thetaS[511]
                     -0.034 1.009
                                     310
                     -0.065 1.006
## thetaS[512]
                                     560
## thetaS[513]
                      0.778 1.005
                                     640
## thetaS[514]
                     -0.082 1.002
                                    2100
## thetaS[515]
                     -0.112 1.003
                                    1100
## thetaS[516]
                     -0.060 1.003
                                    1400
## thetaS[517]
                     -0.395 1.009
                                     370
## thetaS[518]
                      0.360 1.001
                                    4000
## thetaS[519]
                     -0.601 1.010
                                     280
## thetaS[520]
                      0.659 1.003
                                     940
## thetaS[521]
                     -0.302 1.011
                                     270
## thetaS[522]
                     -0.537 1.004
                                     950
## thetaS[523]
                     -0.577 1.012
                                     220
## thetaS[524]
                     -0.507 1.006
                                     500
## thetaS[525]
                     -0.396 1.016
                                     170
## thetaS[526]
                     -0.570 1.019
                                     190
## thetaS[527]
                      0.355 1.004
                                     900
## thetaS[528]
                      0.341 1.001
                                    3000
## thetaS[529]
                     -0.546 1.011
                                     250
## thetaS[530]
                     -0.389 1.018
                                     170
## thetaS[531]
                     -0.344 1.003
                                    1000
## thetaS[532]
                     -0.789 1.017
                                     200
## thetaS[533]
                      0.897 1.003
                                     980
## thetaS[534]
                     -0.7631.008
                                     330
## thetaS[535]
                                     650
                      0.838 1.004
## thetaS[536]
                      0.357 1.003
                                     960
## deviance
                   7983.044 1.003
                                    1100
## For each parameter, n.eff is a crude measure of effective sample size,
   and Rhat is the potential scale reduction factor (at convergence, Rhat=1).
## DIC info (using the rule, pD = var(deviance)/2)
## pD = 643.9 and DIC = 8554.0
## DIC is an estimate of expected predictive error (lower deviance is better).
```

```
# printing only certain parameters
summary(mcmc(model01.r2jags$BUGSoutput$sims.matrix[,grep(x = colnames(model01.r2jags$BUGSoutput$sims.ma
##
## Iterations = 1:4000
## Thinning interval = 1
## Number of chains = 1
## Sample size per chain = 4000
##
##
  1. Empirical mean and standard deviation for each variable,
      plus standard error of the mean:
##
##
##
                           SD Naive SE Time-series SE
## lambda[1]
               1.0000 0.00000 0.000000
                                              0.000000
## lambda[2]
               1.5395 0.19473 0.003079
                                              0.003079
## lambda[3]
               1.2865 0.16409 0.002595
                                             0.002595
## lambda[4]
               0.7445 0.10686 0.001690
                                             0.001690
## lambda[5]
               0.6041 0.08739 0.001382
                                             0.001382
## lambda[6]
               1.1330 0.16490 0.002607
                                             0.002607
## lambda[7]
               1.3805 0.18859 0.002982
                                             0.003054
## lambda[8]
               0.6207 0.09444 0.001493
                                             0.001493
## lambda[9]
               0.4208 0.06912 0.001093
                                             0.001093
## lambda[10] 1.5598 0.21037 0.003326
                                             0.003326
## lambda[11] 1.4858 0.21700 0.003431
                                              0.003431
## lambda[12]
              0.9790 0.13820 0.002185
                                              0.002185
## lambda[13]
              1.5120 0.22767 0.003600
                                             0.003683
## lambda[14]
              1.1453 0.16278 0.002574
                                              0.002574
## lambda[15]
             1.4468 0.19818 0.003134
                                             0.003134
## lambda[16] 1.0059 0.13996 0.002213
                                             0.002213
              1.7349 0.24693 0.003904
## lambda[17]
                                              0.003904
## lambda[18] 1.2385 0.17106 0.002705
                                             0.002705
## lambda[19] 2.0102 0.31303 0.004950
                                              0.004950
## lambda[20] 1.7696 0.26854 0.004246
                                             0.004246
## lambdaS[1] 1.2567 0.13935 0.002203
                                              0.002203
## lambdaS[2] 1.9157 0.17544 0.002774
                                             0.002774
## lambdaS[3] 1.6005 0.14558 0.002302
                                             0.002302
## lambdaS[4] 0.9249 0.09020 0.001426
                                             0.001426
## lambdaS[5] 0.7508 0.07825 0.001237
                                             0.001237
## lambdaS[6]
             1.4082 0.14963 0.002366
                                              0.002246
## lambdaS[7]
              1.7160 0.16187 0.002559
                                             0.002559
## lambdaS[8]
               0.7713 0.08673 0.001371
                                             0.001371
## lambdaS[9]
              0.5232 0.06892 0.001090
                                             0.001090
## lambdaS[10] 1.9404 0.19409 0.003069
                                              0.003069
## lambdaS[11] 1.8450 0.17902 0.002831
                                              0.002831
## lambdaS[12] 1.2162 0.11471 0.001814
                                              0.001814
## lambdaS[13] 1.8793 0.21244 0.003359
                                             0.003359
## lambdaS[14] 1.4226 0.13461 0.002128
                                              0.002254
## lambdaS[15] 1.7981 0.16769 0.002651
                                              0.002651
## lambdaS[16] 1.2499 0.11819 0.001869
                                              0.001836
## lambdaS[17] 2.1559 0.21551 0.003408
                                             0.003408
## lambdaS[18] 1.5389 0.14293 0.002260
                                             0.002260
## lambdaS[19] 2.4994 0.30934 0.004891
                                             0.004891
## lambdaS[20] 2.1977 0.23782 0.003760
                                             0.003678
##
```

```
##
                 2.5%
                         25%
                                50%
                                       75% 97.5%
## lambda[1]
               1.0000 1.0000 1.0000 1.0000 1.0000
## lambda[2]
               1.2041 1.3994 1.5251 1.6624 1.9630
## lambda[3]
               1.0052 1.1657 1.2772 1.3897 1.6368
## lambda[4]
               0.5640 0.6681 0.7387 0.8110 0.9760
               0.4491 0.5420 0.5996 0.6589 0.7931
## lambda[5]
## lambda[6]
               0.8460 1.0138 1.1269 1.2366 1.4927
## lambda[7]
               1.0472 1.2496 1.3657 1.4960 1.7917
## lambda[8]
               0.4603 0.5507 0.6143 0.6797 0.8199
## lambda[9]
               0.3004 0.3725 0.4154 0.4642 0.5751
## lambda[10] 1.2047 1.4108 1.5400 1.6903 2.0148
## lambda[11]
              1.1265 1.3343 1.4640 1.6188 1.9669
## lambda[12]
               0.7404 0.8827 0.9658 1.0618 1.2891
## lambda[13]
               1.1169 1.3488 1.4927 1.6559 2.0146
## lambda[14]
               0.8673 1.0270 1.1307 1.2477 1.5030
## lambda[15]
               1.0970 1.3056 1.4275 1.5767 1.8795
## lambda[16]
               0.7612 0.9064 0.9956 1.0952 1.3020
## lambda[17]
               1.2930 1.5603 1.7160 1.8894 2.2837
## lambda[18]
              0.9423 1.1160 1.2244 1.3498 1.6081
## lambda[19]
             1.4786 1.7888 1.9893 2.1969 2.6876
## lambda[20] 1.2959 1.5792 1.7491 1.9433 2.3507
## lambdaS[1]
               0.9972 1.1581 1.2509 1.3514 1.5311
## lambdaS[2]
              1.5929 1.7937 1.9073 2.0296 2.2725
## lambdaS[3]
             1.3298 1.4979 1.5968 1.6929 1.9080
## lambdaS[4] 0.7616 0.8620 0.9228 0.9833 1.1082
## lambdaS[5] 0.5999 0.6964 0.7486 0.8013 0.9102
## lambdaS[6]
             1.1341 1.3052 1.3978 1.5074 1.7061
## lambdaS[7]
             1.4079 1.6059 1.7092 1.8186 2.0502
## lambdaS[8]
              0.6090 0.7131 0.7674 0.8269 0.9494
## lambdaS[9]
               0.3957 0.4766 0.5214 0.5695 0.6615
## lambdaS[10] 1.5938 1.8064 1.9298 2.0581 2.3627
## lambdaS[11] 1.5266 1.7241 1.8336 1.9553 2.2303
## lambdaS[12] 1.0049 1.1379 1.2102 1.2918 1.4573
## lambdaS[13] 1.5042 1.7324 1.8635 2.0216 2.3166
## lambdaS[14] 1.1691 1.3303 1.4179 1.5098 1.7009
## lambdaS[15] 1.4840 1.6821 1.7941 1.9081 2.1336
## lambdaS[16] 1.0342 1.1677 1.2441 1.3284 1.4978
## lambdaS[17] 1.7615 2.0086 2.1473 2.2954 2.5969
## lambdaS[18] 1.2796 1.4396 1.5314 1.6302 1.8351
## lambdaS[19] 1.9742 2.2797 2.4711 2.6898 3.1649
## lambdaS[20] 1.7671 2.0360 2.1816 2.3464 2.7050
summary(mcmc(model01.r2jags$BUGSoutput$sims.matrix[,grep(x = colnames(model01.r2jags$BUGSoutput$sims.ma
##
## Iterations = 1:4000
## Thinning interval = 1
## Number of chains = 1
## Sample size per chain = 4000
##
## 1. Empirical mean and standard deviation for each variable,
##
      plus standard error of the mean:
##
```

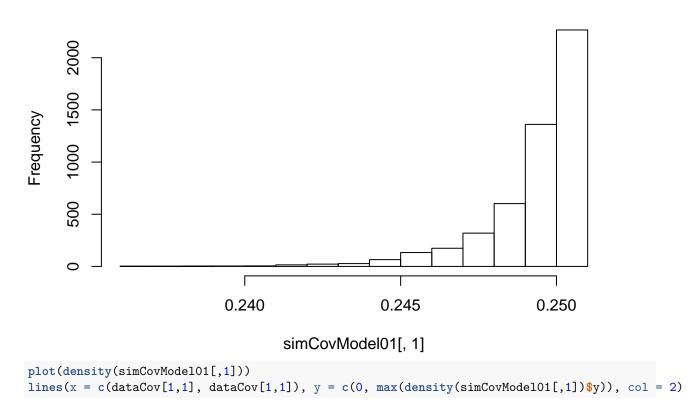
2. Quantiles for each variable:

##

```
SD Naive SE Time-series SE
           0.06408 0.08917 0.001410
## mu[1]
                                         0.0014132
## mu[2]
           0.32214 0.12115 0.001915
                                         0.0019155
## mu[3]
         -0.03137 0.10519 0.001663
                                         0.0016610
## mu[4]
          0.09632 0.07398 0.001170
                                         0.0011966
          0.26030 0.06911 0.001093
                                         0.0010928
## mu[5]
          1.41857 0.14207 0.002246
## mu[6]
                                         0.0021720
## mu[7]
         -0.61715 0.11784 0.001863
                                         0.0018791
          0.84541 0.07974 0.001261
## mu[8]
                                         0.0012609
## mu[9]
           0.42840 0.06327 0.001000
                                         0.0009639
## mu[10] -0.79225 0.14025 0.002218
                                         0.0022836
## mu[11] -0.22250 0.11940 0.001888
                                         0.0018878
## mu[12] 0.93691 0.10161 0.001607
                                         0.0015609
## mu[13] -1.27484 0.16691 0.002639
                                         0.0026391
## mu[14] 0.99354 0.11308 0.001788
                                         0.0017880
## mu[15] -0.35679 0.11768 0.001861
                                         0.0019749
## mu[16] 0.79036 0.09758 0.001543
                                         0.0015429
## mu[17] -0.54511 0.14007 0.002215
                                         0.0022788
## mu[18] -0.24609 0.10272 0.001624
                                         0.0015887
## mu[19] -1.52022 0.21917 0.003465
                                         0.0034654
## mu[20] -0.82719 0.15985 0.002527
                                         0.0025275
## 2. Quantiles for each variable:
##
##
              2.5%
                         25%
                                  50%
                                           75%
                                                   97.5%
## mu[1]
         -0.10956
                   0.005762
                             0.06457
                                       0.12448
                                                0.234352
## mu[2]
           0.08684
                   0.241970
                             0.31875
                                       0.40141
                                                0.569328
## mu[3]
         -0.24560 -0.101193 -0.03018
                                       0.04035
                                                0.170384
## mu[4]
         -0.04999 0.045594
                             0.09672
                                       0.14484
                                                0.242281
## mu[5]
          0.12391
                   0.213584
                              0.25972
                                       0.30514
                                                0.400644
## mu[6]
           1.15412
                   1.322699
                              1.41119
                                       1.51007
                                                1.712144
## mu[7]
          -0.85878 -0.692088 -0.61445 -0.53761 -0.393747
## mu[8]
           0.69632
                   0.790333
                             0.84378
                                       0.89770
## mu[9]
           0.30074
                   0.385485
                             0.42889
                                       0.47077
                                                0.553414
## mu[10] -1.08153 -0.882052 -0.79092 -0.69839 -0.529173
## mu[11] -0.45685 -0.301499 -0.22258 -0.14210
                                               0.008955
## mu[12] 0.74839 0.867266 0.93276
                                      1.00543
## mu[13] -1.62136 -1.384000 -1.26619 -1.15928 -0.969061
          0.77939 0.915182 0.98999
                                       1.06619
## mu[14]
                                                1.220323
## mu[15] -0.58877 -0.436072 -0.35550 -0.27662 -0.125807
## mu[16] 0.60833 0.724089 0.78749
                                      0.85499
## mu[17] -0.84207 -0.634052 -0.54048 -0.44968 -0.283723
## mu[18] -0.44977 -0.314089 -0.24560 -0.17786 -0.042298
## mu[19] -1.98598 -1.654615 -1.50484 -1.36952 -1.134154
## mu[20] -1.15607 -0.927429 -0.82246 -0.71768 -0.531378
summary(mcmc(model01.r2jags$BUGSoutput$sims.matrix[,grep(x = colnames(model01.r2jags$BUGSoutput$sims.ma
## Iterations = 1:4000
## Thinning interval = 1
## Number of chains = 1
## Sample size per chain = 4000
##
## 1. Empirical mean and standard deviation for each variable,
```

```
##
      plus standard error of the mean:
##
##
             Mean
                              SD
                                       Naive SE Time-series SE
                                       0.005601
                                                       0.005741
##
         1.598648
                        0.354224
## 2. Quantiles for each variable:
##
                           75% 97.5%
##
     2.5%
             25%
                    50%
## 0.9943 1.3411 1.5647 1.8264 2.3444
Now, let's look at model fit. We will have to use a slightly different version of the syntax from before:
# list number of simulated data sets
nSimulatedDataSets = 5000
# create one large matrix of posterior values
model01.Posterior.all = model01.r2jags$BUGSoutput$sims.matrix
dim(model01.Posterior.all)
## [1] 4000 1134
# determine columns of posterior that go into each model matrix
# colnames(model01.Posterior.all)
muCols = grep(x = colnames(model01.Posterior.all), pattern = "mu")
lambdaCols = grep(x = colnames(model01.Posterior.all), pattern = "lambda\\[")
varCol = grep(x = colnames(model01.Posterior.all), pattern = "theta.variance")
# save simulated covariances:
simCovModel01 = matrix(data = NA, nrow = nSimulatedDataSets, ncol = nItems*nItems)
# loop through data sets (can be sped up with functions and lapply)
pb = txtProgressBar()
sim = 1
for (sim in 1:nSimulatedDataSets){
  # draw sample from one iteration of posterior chain
  iternum = sample(x = 1:nrow(model01.Posterior.all), size = 1, replace = TRUE)
  # get parameters for that sample: put into factor model matrices for easier generation of data
  mu = matrix(data = model01.Posterior.all[iternum, muCols], ncol = 1)
  lambda = matrix(data = model01.Posterior.all[iternum, lambdaCols], ncol = 1)
  varTheta = model01.Posterior.all[iternum, varCol]
  # generate sample of thetas from theta distribution
  theta = matrix(data = rnorm(n = nrow(FSdata), mean = 0, sd = sqrt(varTheta)), nrow = nrow(FSdata), nc
  # calculate predicted probits:
  probits = matrix(data = 1, nrow = nrow(FSdata), ncol = 1) %*% t(mu) + theta %*% t(lambda)
  simData = probits
  i=1
  for (i in 1:ncol(probits)){
    simData[,i] = rbinom(n = nrow(probits), size = 1, prob = pnorm(q = probits[,i]))
  # calculate the value of SRMR using simulated data's covariance matrix and observed covariance matrix
```

Histogram of simCovModel01[, 1]



density.default(x = simCovModel01[, 1])

```
400
     0
                             0.240
                                                   0.245
       0.235
                                                                         0.250
                             N = 5000 Bandwidth = 0.000191
quantile(simCovModel01[,1])
         0%
                   25%
                             50%
                                       75%
## 0.2361836 0.2487795 0.2498779 0.2503417 0.2504673
mean(simCovModel01[,1])
## [1] 0.249264
dataCov[1,1]
## [1] 0.2494595
# create quantiles of correlations to see where each observed correlation falls
covQuantiles01 = NULL
# compute the quantiles of the observed correlations:
```

```
# compute the quantiles of the observed correlations:

col = 1
for (i in 1:ncol(simData)){
    for (j in 1:ncol(simData)){
        # get empirical CDF of simulated correlation distribution
        covEcdf = ecdf(simCovModel01[,col])
        covQuantiles01 = rbind(covQuantiles01, c(i, j, summary(covEcdf), dataCov[i,j], covEcdf(dataCov[i,j])

    col = col + 1
    }
}
colnames(covQuantiles01)[1:2] = c("Item 1", "Item 2")
colnames(covQuantiles01)[9:10] = c("ObsCor", "CorPctile")
covQuantiles01[which(covQuantiles01[,10] > .975 | covQuantiles01[,10] < .025),]</pre>
```

```
Item 1 Item 2
                                        1st Qu.
                                                     Median
                                Min.
    [1,]
                        0.078720882 0.11056807 0.11982843 0.11962328
##
                      2
              1
##
    [2,]
                         0.069043800 0.10472782 0.11446855 0.11426385
    [3,]
##
                         0.026175199 0.06641094 0.07533826 0.07535039
              1
##
    [4,]
              1
                         0.038073650 0.06553128 0.07361905 0.07385127
##
                         0.078720882 0.11056807 0.11982843 0.11962328
    [5,]
              2
                         0.091131957 0.12386316 0.13249407 0.13216583
    [6.]
              2
##
    [7,]
              2
                         0.036936811 0.07746984 0.08659157 0.08651337
##
    [8,]
              3
                     1
                         0.069043800 0.10472782 0.11446855 0.11426385
##
   [9,]
              3
                         0.091131957 0.12386316 0.13249407 0.13216583
## [10,]
              3
                         0.085214116 0.12058516 0.12913238 0.12891119
                         0.016668991 0.05608174 0.06496722 0.06490362
## [11,]
              4
## [12,]
              4
                         0.011103362 0.04552762 0.05369298 0.05355727
                         0.007455712 0.03849997 0.04724683 0.04710361
## [13,]
              4
## [14,]
                         0.052531734 0.08552274 0.09348584 0.09367866
              4
                    10
## [15,]
              4
                         0.055182034 0.09105960 0.10011508 0.10006951
## [16,]
              4
                         0.041494630 0.07298089 0.08095969 0.08102367
                    13
## [17,]
                         0.057368531 0.09172130 0.10049867 0.10052477
                         0.049595481 0.07963802 0.08780862 0.08752609
## [18,]
              4
## [19,]
              4
                    20
                         0.059743339 0.08841802 0.09689985 0.09683306
## [20,]
              5
                         0.026175199 0.06641094 0.07533826 0.07535039
              5
                         0.036936811 0.07746984 0.08659157 0.08651337
## [21,]
## [22,]
                         0.016668991 0.05608174 0.06496722 0.06490362
              5
              5
                     9 -0.004644999 0.03247053 0.04111103 0.04117677
## [23.]
## [24,]
              6
                         0.038073650 0.06553128 0.07361905 0.07385127
## [25,]
              6
                         0.026279816 0.06294462 0.07152148 0.07177308
## [26,]
              6
                         0.035709304 0.06883457 0.07766076 0.07782788
## [27,]
              6
                         0.033700656 0.06610755 0.07496861 0.07512898
              7
## [28,]
                         0.084314409 0.11964360 0.12840354 0.12823861
## [29,]
              8
                         0.011103362 0.04552762 0.05369298 0.05355727
## [30,]
              9
                         0.007455712 0.03849997 0.04724683 0.04710361
## [31,]
              9
                       -0.004644999 0.03247053 0.04111103 0.04117677
## [32,]
             10
                         0.052531734 0.08552274 0.09348584 0.09367866
## [33,]
                         0.083582090 0.12354582 0.13178965 0.13154449
             10
## [34,]
             10
                         0.095620031 0.12733645 0.13614172 0.13596994
## [35,]
                         0.055182034 0.09105960 0.10011508 0.10006951
             11
## [36,]
             11
                         0.083582090 0.12354582 0.13178965 0.13154449
## [37,]
                         0.099135165 0.13343039 0.14179802 0.14170583
                    17
             11
## [38,]
                         0.082229042 0.12107337 0.12962408 0.12939199
             11
## [39,]
                         0.091791045 0.12894232 0.13715302 0.13703517
             11
## [40,]
                         0.026279816 0.06294462 0.07152148 0.07177308
             12
## [41,]
                         0.040835542 0.07393291 0.08318629 0.08317948
             12
                    14
## [42.]
             12
                         0.037355280 0.07194257 0.08081671 0.08100022
## [43,]
                         0.041494630 0.07298089 0.08095969 0.08102367
             13
## [44,]
             14
                         0.035709304 0.06883457 0.07766076 0.07782788
## [45,]
                    12
                         0.040835542 0.07393291 0.08318629 0.08317948
             14
## [46,]
             14
                    16
                         0.046966104 0.07914109 0.08791672 0.08815561
## [47,]
             15
                         0.084314409 0.11964360 0.12840354 0.12823861
## [48,]
             16
                         0.033700656 0.06610755 0.07496861 0.07512898
## [49,]
             16
                         0.037355280 0.07194257 0.08081671 0.08100022
## [50,]
                         0.046966104 0.07914109 0.08791672 0.08815561
             16
## [51,]
             17
                         0.057368531 0.09172130 0.10049867 0.10052477
## [52,]
             17
                         0.099135165 0.13343039 0.14179802 0.14170583
                    11
## [53,]
             17
                    18 0.091477193 0.12453445 0.13308341 0.13288438
```

```
## [54,]
                        0.102385270 0.13534663 0.14388339 0.14364162
             17
                        0.082229042 0.12107337 0.12962408 0.12939199
## [55,]
             18
                    11
  [56,]
             18
                        0.091477193 0.12453445 0.13308341 0.13288438
  [57,]
                        0.049595481 0.07963802 0.08780862 0.08752609
##
             19
##
  [58,]
             20
                     3
                        0.085214116 0.12058516 0.12913238 0.12891119
## [59,]
                        0.059743339 0.08841802 0.09689985 0.09683306
             20
## [60,]
             20
                        0.095620031 0.12733645 0.13614172 0.13596994
                    10
##
  [61,]
             20
                    11
                        0.091791045 0.12894232 0.13715302 0.13703517
##
   [62,]
             20
                        0.102385270 0.13534663 0.14388339 0.14364162
##
            3rd Qu.
                          Max.
                                    ObsCor CorPctile
    [1,] 0.12866334 0.16563328 0.19196192
                                              1.0000
##
    [2,] 0.12366090 0.15914702 0.18363789
                                              1.0000
##
    [3,] 0.08440159 0.11941693 0.10948180
                                              0.9970
                                              0.9784
##
   [4,] 0.08205119 0.10933185 0.09624076
##
   [5,] 0.12866334 0.16563328 0.19196192
                                              1.0000
##
    [6,] 0.14032641 0.17383178 0.20165992
                                              1.0000
##
   [7,] 0.09526085 0.13271028 0.11506138
                                              0.9888
   [8,] 0.12366090 0.15914702 0.18363789
                                              1.0000
   [9,] 0.14032641 0.17383178 0.20165992
                                              1.0000
## [10,] 0.13736749 0.16634817 0.10255266
                                              0.0094
## [11,] 0.07392942 0.10305482 0.04063677
                                              0.0210
## [12,] 0.06148870 0.09296973 0.10332334
                                              1.0000
## [13,] 0.05603205 0.08760287 0.02016669
                                              0.0140
## [14,] 0.10221440 0.14813433 0.12479077
                                              0.9952
## [15,] 0.10904764 0.13963593 0.14933045
                                              1.0000
## [16,] 0.08913726 0.12419096 0.10201562
                                              0.9780
## [17,] 0.10935974 0.14884921 0.13365881
                                              0.9970
## [18,] 0.09585019 0.12740968 0.11094295
                                              0.9882
## [19,] 0.10545491 0.14481448 0.13107128
                                              0.9988
## [20,] 0.08440159 0.11941693 0.10948180
                                              0.9970
## [21,] 0.09526085 0.13271028 0.11506138
                                              0.9888
## [22,] 0.07392942 0.10305482 0.04063677
                                              0.0210
## [23,] 0.04991369 0.08712512 0.07171502
                                              0.9942
## [24,] 0.08205119 0.10933185 0.09624076
                                              0.9784
## [25,] 0.08052030 0.11457316 0.10325708
                                              0.9950
## [26,] 0.08662645 0.13027619 0.10919933
                                              0.9954
## [27,] 0.08397615 0.11622263 0.10382899
                                              0.9926
## [28,] 0.13688450 0.16642488 0.16519738
                                              0.9998
## [29,] 0.06148870 0.09296973 0.10332334
                                              1.0000
                                              0.0140
## [30,] 0.05603205 0.08760287 0.02016669
## [31,] 0.04991369 0.08712512 0.07171502
                                              0.9942
## [32,] 0.10221440 0.14813433 0.12479077
                                              0.9952
## [33,] 0.13992189 0.16594016 0.16047566
                                              0.9982
## [34,] 0.14454596 0.17458502 0.16202399
                                              0.9890
## [35,] 0.10904764 0.13963593 0.14933045
                                              1.0000
## [36,] 0.13992189 0.16594016 0.16047566
                                              0.9982
## [37,] 0.15012380 0.17653090 0.17581253
                                              0.9998
## [38,] 0.13777985 0.17054680 0.15524480
                                              0.9904
## [39,] 0.14526956 0.17428512 0.17660762
                                              1.0000
## [40,] 0.08052030 0.11457316 0.10325708
                                              0.9950
## [41,] 0.09245275 0.12214744 0.11531246
                                              0.9972
## [42,] 0.09004655 0.12610545 0.11384084
                                              0.9964
## [43,] 0.08913726 0.12419096 0.10201562
                                              0.9780
## [44,] 0.08662645 0.13027619 0.10919933
                                              0.9954
```

```
## [45,] 0.09245275 0.12214744 0.11531246
                                              0.9972
  [46,] 0.09722416 0.13873623 0.12652044
                                              0.9994
## [47,] 0.13688450 0.16642488 0.16519738
                                              0.9998
## [48,] 0.08397615 0.11622263 0.10382899
                                              0.9926
## [49,] 0.09004655 0.12610545 0.11384084
                                              0.9964
## [50,] 0.09722416 0.13873623 0.12652044
                                              0.9994
## [51,] 0.10935974 0.14884921 0.13365881
                                              0.9970
## [52,] 0.15012380 0.17653090 0.17581253
                                              0.9998
## [53,] 0.14155566 0.17014228 0.15580974
                                              0.9836
## [54,] 0.15201214 0.18350886 0.17776538
                                              0.9990
## [55,] 0.13777985 0.17054680 0.15524480
                                              0.9904
## [56,] 0.14155566 0.17014228 0.15580974
                                              0.9836
## [57,] 0.09585019 0.12740968 0.11094295
                                              0.9882
## [58,] 0.13736749 0.16634817 0.10255266
                                              0.0094
## [59,] 0.10545491 0.14481448 0.13107128
                                              0.9988
## [60,] 0.14454596 0.17458502 0.16202399
                                              0.9890
## [61,] 0.14526956 0.17428512 0.17660762
                                              1.0000
## [62,] 0.15201214 0.18350886 0.17776538
                                              0.9990
```

Creating Standardized Estimates

Our previous example used a standardized mean/marker item variance scale identification technique. We will see with multivariate IRT models, this will be a common method of identification. But, we can convert these results to one where the theta variance is set to one with a bit of math:

First, the kernel of the model must be the same after standardization. That is, $\mu_i + \lambda_i \theta_p = \mu_i^S + \lambda_i^S \theta_i^S$ — meaning that item response probabilities are invariant after transformation. As θ_p has mean 0 and variance σ_{θ}^2 , to standardize it, we can divide by σ_{θ} :

$$\theta_p^S = \frac{\theta_p}{\sigma_\theta}$$

Now, θ_p^S has variance 1. To make the item response probabilities correspond, we must transform λ_i similarly. We can do so by taking:

$$\lambda^S = \sigma_{\theta} \lambda_p$$

As this term cancels the variance transformation for θ_p , we are left with:

$$\mu_i^S = \mu_i$$

In the model syntax above, you can see how this is computed for lambdaS and thetaS.

Transforming from Slope/Intercept to Discrimination/Difficulty

The IRT model core $a_i (\theta_p - b_i)$ can be reparameterized as

$$\mu_i + \lambda_i \theta_i$$

Which comes from multiplying a_i through $(\theta_p - b_i)$:

$$a_i (\theta_n - b_i) = -a_i b_i + a_i \theta_i = \mu_i + \lambda_i \theta_i$$

Where,

```
    λ<sub>i</sub> = a<sub>i</sub>
    μ<sub>i</sub> = -a<sub>i</sub>b<sub>i</sub>, leading to b<sub>i</sub> = -μ<sub>i</sub>/a<sub>i</sub> = -μ<sub>i</sub>/λ<sub>i</sub>
```

Finally, we can transform our standardized parameters to values are in the Discrimination/Difficulty parameterization (which often uses standardized θ_p). To do this, all we need to create is the difficulty parameter as the discrimination parameter is equal to the standardized loading. This is not in the model syntax as JAGS has an issue with running this code. So, we can do this with the posterior distribution:

```
muCols = grep(x = colnames(model01.Posterior.all), pattern = "mu")
lambdaCols = grep(x = colnames(model01.Posterior.all), pattern = "lambda\\[")
varCol = grep(x = colnames(model01.Posterior.all), pattern = "theta.variance")
b = matrix(data = NA, nrow = nrow(model01.Posterior.all), ncol = nItems)
for (rep in 1:nrow(model01.Posterior.all)){
  mu = matrix(data = model01.Posterior.all[rep, muCols], ncol = 1)
  lambda = matrix(data = model01.Posterior.all[rep, lambdaCols], ncol = 1)
  varTheta = model01.Posterior.all[rep, varCol]
  for (item in 1:nItems){
    b[rep,item] = -1*mu[item]/(lambda[item]*sqrt(varTheta))
  }
}
summary(mcmc(b))
##
## Iterations = 1:4000
## Thinning interval = 1
## Number of chains = 1
  Sample size per chain = 4000
##
##
  1. Empirical mean and standard deviation for each variable,
##
      plus standard error of the mean:
##
                       SD Naive SE Time-series SE
##
             Mean
##
   [1,] -0.05218 0.07199 0.0011383
                                         0.0011132
   [2,] -0.16902 0.06357 0.0010052
##
                                         0.0010052
##
   [3,] 0.01885 0.06556 0.0010366
                                         0.0010376
##
  [4,] -0.10501 0.08105 0.0012816
                                         0.0013165
  [5,] -0.34942 0.09586 0.0015157
                                         0.0015157
##
   [6,] -1.01216 0.09168 0.0014496
                                         0.0013835
   [7,] 0.36023 0.06328 0.0010006
##
                                         0.0010475
  [8,] -1.10609 0.13329 0.0021074
                                         0.0021074
  [9,] -0.83120 0.15492 0.0024495
                                         0.0024495
## [10,] 0.40876 0.06269 0.0009912
                                         0.0009912
## [11,] 0.12038 0.06329 0.0010006
                                         0.0010006
## [12,] -0.77419 0.08734 0.0013810
                                         0.0013810
## [13,] 0.68032 0.06821 0.0010784
                                         0.0010526
## [14,] -0.70147 0.07937 0.0012550
                                         0.0012550
## [15,] 0.19866 0.06368 0.0010069
                                         0.0010069
## [16,] -0.63553 0.08135 0.0012862
                                         0.0012862
```

```
## [17,] 0.25288 0.05990 0.0009470
                                        0.0010078
         0.15997 0.06555 0.0010364
  Г18.]
                                        0.0010312
         0.60971 0.06185 0.0009779
## [19,]
                                        0.0009779
## [20,]
         0.37654 0.06093 0.0009634
                                        0.0009643
## 2. Quantiles for each variable:
##
                                                 97.5%
##
             2.5%
                       25%
                                50%
                                          75%
## var1
        -0.191067 -0.10066 -0.05182 -0.004798
                                               0.08822
## var2
        -0.298795 -0.21087 -0.16781 -0.126442 -0.04582
## var3
        -0.108836 -0.02494 0.01834
                                    0.062867
        -0.266316 -0.15835 -0.10481 -0.049637
## var5
        -0.549300 -0.41121 -0.34791 -0.286375 -0.16280
## var6
       -1.198866 -1.07274 -1.00941 -0.949161 -0.83992
         0.234358 0.31770 0.35924 0.403542
## var7
## var8
        -1.385015 -1.18987 -1.09556 -1.014163 -0.86606
        -1.158443 -0.93227 -0.81933 -0.723043 -0.55723
## var9
## var10 0.284776
                  0.36623
                            0.41014
                                     0.451681
                   0.07787
                            0.12059
## var11 -0.004849
                                     0.163863
                                               0.24210
## var12 -0.950184 -0.83055 -0.77190 -0.713136 -0.60633
## var13 0.550789 0.63504 0.68003 0.725419
## var14 -0.864681 -0.75314 -0.69843 -0.648384 -0.55479
                            0.19909 0.242881
## var15 0.073170 0.15607
                                               0.31964
## var16 -0.795797 -0.69062 -0.63207 -0.579399 -0.48134
## var17 0.136305 0.21243
                            0.25299 0.292523
                                              0.36952
## var18 0.028539
                  0.11752
                            0.15950
                                     0.203733
                                               0.28940
## var19
         0.492291
                  0.56704
                            0.60861
                                     0.652753
                                               0.72830
## var20
         0.252415 0.33661
                            0.37699
                                     0.417727
```

Of note, one can always convert one model parameterization to the other. Depending on prior selection, it is not guaranteed that the posterior distributions will be identical. Model 2 shows this same analysis in discrimination/difficulty form with a standardized factor variance:

Model 2: 2PNO/Standardized Theta/Discrimination/Difficulty Parameterization

```
# marker item:
model02.function = function(){

# measurement model specification
for (person in 1:N){
    for (item in 1:I){
        X[person, item] ~ dbern(phi(a[item]*(theta[person]-b[item])))
      }
}

# prior distributions for the factor:
for (person in 1:N){
    theta[person] ~ dnorm(0, 1)
}

# prior distributions for the measurement model parameters
for (item in 1:I){
```

```
a[item] ~ dlnorm(a.mean.0, a.precision.0)
      b[item] ~ dnorm(b.mean.0, b.precision.0)
      mu[item] <- -1*a[item]*b[item]</pre>
   }
}
# specification of prior values for measurement model parameters:
# item intercepts
a.mean.0 = 0
a.variance.0 = 100
a.precision.0 = 1 / a.variance.0
   Factor loadings -- these are the discriminations
b.mean.0 = 0
b.variance.0 = 100
b.precision.0 = 1 / b.variance.0
# next, create data for JAGS to use:
model02.data = list(
 N = nrow(FSdata),
 X = FSdata,
 I = nItems,
 a.mean.0 = a.mean.0,
 a.precision.0 = a.precision.0,
 b.mean.0 = b.mean.0,
 b.precision.0 = b.precision.0
)
model02.parameters = c("mu", "a", "theta", "b")
# for reproducable analyses
model02.seed = 06042019+1
Here, we will use the R2jags jags.parallel() function, which will run somewhat faster (one chain per core):
model02.r2jags = jags.parallel(
 data = model02.data,
  parameters.to.save = model02.parameters,
 model.file = model02.function,
 n.chains = 4.
 n.iter = 2000,
 n.thin = 1,
 n.burnin = 1000,
 n.cluster = 4,
  jags.seed = model02.seed
model02.r2jags
## Inference for Bugs model at "model02.function", fit using jags,
## 4 chains, each with 2000 iterations (first 1000 discarded)
## n.sims = 4000 iterations saved
              mu.vect sd.vect
                                   2.5%
                                              25%
                                                       50%
                                                                75%
                                                                       97.5%
## a[1]
                 1.433 0.131 1.188
                                            1.344
                                                     1.427
                                                                       1.704
                                                              1.519
## a[2]
                 1.873 0.174
                                  1.557
                                            1.752
                                                     1.864
                                                              1.986
                                                                       2.233
```

## a[3]	1.561	0.146	1.297	1.461	1.554	1.653	1.865
## a[4]	0.891	0.085	0.735	0.831	0.890	0.948	1.066
## a[4]	0.725	0.003	0.735	0.673	0.724	0.778	0.873
## a[6]	1.352	0.139	1.084	1.259	1.346	1.441	1.628
## a[7]	1.655	0.164	1.355	1.540	1.650	1.762	2.008
## a[8]	0.741	0.081	0.588	0.685	0.739	0.796	0.905
## a[9]	0.499	0.070	0.366	0.452	0.498	0.544	0.641
## a[10]	1.865	0.189	1.521	1.734	1.857	1.984	2.259
## a[11]	1.774	0.160	1.479	1.664	1.765	1.880	2.101
## a[12]	1.177	0.115	0.957	1.102	1.173	1.248	1.422
## a[13]	1.810	0.210	1.442	1.663	1.797	1.940	2.256
## a[14]	1.381	0.134	1.135	1.287	1.373	1.467	1.663
## a[15]	1.733	0.170	1.418	1.615	1.723	1.843	2.089
## a[16]	1.211	0.114	0.990	1.133	1.209	1.291	1.430
## a[17]	2.073	0.211	1.691	1.927	2.064	2.209	2.506
## a[18]	1.482	0.142	1.225	1.382	1.477	1.576	1.770
## a[19]	2.366	0.298	1.835	2.165	2.339	2.548	3.002
## a[20]	2.095	0.227	1.680	1.937	2.084	2.242	2.578
## b[1]	-0.040	0.067	-0.172	-0.084	-0.040	0.005	0.093
## b[2]	-0.174	0.062	-0.299	-0.214	-0.173	-0.132	-0.054
## b[3]	0.019	0.064	-0.107	-0.025	0.018	0.061	0.147
## b[4]	-0.110	0.082	-0.271	-0.164	-0.109	-0.056	0.050
## b[5]	-0.362	0.099	-0.559	-0.428	-0.360	-0.294	-0.179
## b[6]	-1.038	0.092	-1.237	-1.096	-1.033	-0.975	-0.871
## b[7]	0.371	0.065	0.245	0.326	0.371	0.414	0.497
## b[8]	-1.141	0.134	-1.430	-1.226	-1.133	-1.047	-0.896
## b[9]	-0.864	0.168	-1.227	-0.964	-0.851	-0.747	-0.570
## b[10]	0.417	0.061	0.294	0.376	0.418	0.458	0.534
## b[11]	0.121	0.062	0.001	0.080	0.121	0.163	0.242
## b[12]	-0.796	0.089	-0.980	-0.854	-0.792	-0.737	-0.631
## b[13]	0.696	0.067	0.567	0.651	0.695	0.739	0.829
## b[14]	-0.721	0.079	-0.884	-0.772	-0.719	-0.668	-0.571
## b[15]	0.207	0.061	0.091	0.165	0.207	0.249	0.325
## b[16]	-0.651	0.081	-0.817	-0.705	-0.649	-0.595	-0.497
## b[17]	0.258	0.058	0.143	0.219	0.258	0.297	0.373
## b[18]	0.162	0.065	0.032	0.118	0.162	0.208	0.287
## b[19]	0.626	0.061	0.507	0.586	0.626	0.666	0.748
## b[20]	0.384	0.060	0.265	0.344	0.385	0.425	0.502
## mu[1]	0.055	0.095	-0.134	-0.007	0.057	0.118	0.242
## mu[2]	0.324	0.116	0.099	0.246	0.323	0.399	0.564
## mu[3]	-0.030	0.101	-0.240	-0.096	-0.028	0.038	0.159
## mu[4]	0.097	0.072	-0.045	0.050	0.097	0.145	0.238
## mu[5]	0.260	0.067	0.130	0.214	0.260	0.306	0.389
## mu[6]	1.396	0.130	1.147	1.307	1.392	1.483	1.656
## mu[7]	-0.613	0.116	-0.843	-0.690	-0.611	-0.533	-0.391
## mu[8]	0.838	0.076	0.687	0.786	0.838	0.890	0.989
## mu[9]	0.424	0.064	0.301	0.380	0.424	0.467	0.548
## mu[10]	-0.777	0.135	-1.057	-0.865	-0.775	-0.686	-0.525
## mu[11]	-0.215	0.112	-0.440	-0.289	-0.213	-0.139	-0.002
## mu[12]	0.931	0.095	0.754	0.867	0.930	0.994	1.118
## mu[13]	-1.256	0.167	-1.609	-1.364	-1.245	-1.138	-0.961
## mu[14]	0.991	0.112	0.780	0.916	0.988	1.066	1.219
## mu[15]	-0.358	0.111	-0.583	-0.430	-0.358	-0.281	-0.154
## mu[16]	0.784	0.094	0.607	0.719	0.782	0.846	0.973

	F . — 5							
	mu[17]	-0.535	0.132	-0.808	-0.621	-0.532	-0.444	-0.282
	mu[18]	-0.241	0.100	-0.437	-0.305	-0.239	-0.173	-0.047
##	mu[19]	-1.479	0.213	-1.930	-1.613	-1.464	-1.332	-1.095
##	mu[20]	-0.804	0.150	-1.118	-0.898	-0.798	-0.701	-0.523
##	theta[1]	0.297	0.187	-0.061	0.173	0.297	0.421	0.665
##	theta[2]	1.048	0.270	0.559	0.858	1.035	1.219	1.606
##	theta[3]	-0.053	0.205	-0.448	-0.193	-0.054	0.083	0.351
##	theta[4]	0.415	0.198	0.033	0.277	0.419	0.547	0.797
##	theta[5]	-0.894	0.307	-1.541	-1.093	-0.879	-0.683	-0.336
##	theta[6]	-0.934	0.317	-1.631	-1.135	-0.915	-0.711	-0.365
##	theta[7]	-1.535	0.453	-2.482	-1.835	-1.504	-1.218	-0.740
##	theta[8]	-1.357	0.374	-2.159	-1.602	-1.340	-1.092	-0.690
##	theta[9]	-1.056	0.328	-1.738	-1.271	-1.036	-0.822	-0.473
##	theta[10]	-1.078	0.324	-1.745	-1.287	-1.064	-0.858	-0.472
##	theta[11]	0.233	0.204	-0.159	0.096	0.229	0.369	0.636
##	theta[12]	0.425	0.196	0.042	0.293	0.427	0.557	0.806
##	theta[13]	-0.398	0.229	-0.877	-0.547	-0.394	-0.241	0.037
##	theta[14]	-1.112	0.332	-1.806	-1.322	-1.096	-0.883	-0.494
##	theta[15]	-1.046	0.332	-1.729	-1.259	-1.039	-0.808	-0.440
##	theta[16]	-0.525	0.240	-1.013	-0.679	-0.521	-0.359	-0.077
##	theta[17]	-0.738	0.269	-1.284	-0.919	-0.728	-0.549	-0.244
##	theta[18]	-1.059	0.328	-1.760	-1.269	-1.045	-0.824	-0.475
##	theta[19]	-0.850	0.303	-1.470	-1.048	-0.836	-0.637	-0.301
##	theta[20]	-1.692	0.490	-2.736	-2.010	-1.654	-1.343	-0.835
##	theta[21]	0.708	0.210	0.298	0.568	0.706	0.849	1.123
##	theta[22]	0.411	0.205	0.008	0.275	0.412	0.548	0.818
##	theta[23]	1.691	0.491	0.890	1.340	1.627	1.991	2.797
##	theta[24]	0.012	0.194	-0.377	-0.121	0.016	0.146	0.384
##	theta[25]	0.129	0.200	-0.269	-0.005	0.132	0.268	0.519
##	theta[26]	-1.767	0.494	-2.810	-2.077	-1.731	-1.417	-0.906
##	theta[27]	-0.821	0.290	-1.424	-1.018	-0.808	-0.613	-0.297
##	theta[28]	-2.007	0.533	-3.146	-2.340	-1.972	-1.629	-1.085
##	theta[29]	-0.751	0.283	-1.332	-0.933	-0.736	-0.563	-0.218
##	theta[30]	1.700	0.521	0.885	1.329	1.637	1.992	2.941
##	theta[31]	0.450	0.321	0.005	0.320	0.453	0.580	0.833
##	theta[31]	1.673	0.193	0.894	1.304	1.607	1.960	2.845
	theta[33]	1.026	0.266	0.534	0.849	1.007	1.190	1.581
	theta[34]	0.446	0.196	0.063	0.312	0.446	0.581	0.826
	theta[34]	0.446	0.190	0.383	0.661	0.440	0.961	1.284
	theta[36]		0.227		0.102		0.365	
	theta[37]	0.234		-0.154		0.231		0.624
		-0.120	0.201	-0.512	-0.253	-0.120	0.013	0.273
	theta[38]	0.081	0.203	-0.330	-0.060	0.081 0.879	0.220	0.480
	theta[39] theta[40]	0.885	0.238	0.449	0.720 -0.953		1.037	1.377
		-0.770	0.286	-1.374		-0.757	-0.573	-0.252
	theta[41]	-1.760	0.495	-2.815	-2.076	-1.722 1.647	-1.406	-0.908
	theta[42]	1.724	0.513	0.914	1.350	1.647	2.025	2.897
	theta[43]	1.048	0.261	0.578	0.868	1.035	1.213	1.602
	theta[44]	-1.174	0.348	-1.923	-1.399	-1.152	-0.934	-0.563
	theta[45]	0.868	0.240	0.421	0.706	0.856	1.023	1.364
	theta[46]	0.502	0.202	0.125	0.366	0.496	0.631	0.910
	theta[47]	-0.855	0.301	-1.490	-1.049	-0.840	-0.648	-0.292
	theta[48]	-0.266	0.211	-0.690	-0.407	-0.263	-0.124	0.138
	theta[49]	-1.527	0.438	-2.464	-1.794	-1.485	-1.216	-0.796
##	theta[50]	0.462	0.195	0.073	0.336	0.461	0.592	0.838

##	theta[51]	-1.672	0.468	-2.706	-1.974	-1.636	-1.338	-0.851
##	theta[52]	-0.398	0.240	-0.893	-0.552	-0.395	-0.234	0.054
##	theta[53]	-0.503	0.245	-1.002	-0.667	-0.494	-0.333	-0.048
##	theta[54]	0.938	0.258	0.458	0.759	0.931	1.108	1.475
##	theta[55]	0.012	0.199	-0.378	-0.121	0.012	0.144	0.398
##	theta[56]	1.703	0.506	0.909	1.342	1.637	1.994	2.898
##	theta[57]	1.171	0.301	0.628	0.961	1.149	1.356	1.813
##	theta[58]	-1.811	0.507	-2.937	-2.109	-1.768	-1.463	-0.927
##	theta[59]	-0.780	0.285	-1.357	-0.971	-0.767	-0.584	-0.247
##	theta[60]	0.673	0.217	0.256	0.523	0.671	0.821	1.115
##	theta[61]	-1.052	0.332	-1.765	-1.260	-1.031	-0.826	-0.459
##	theta[62]	-1.674	0.453	-2.659	-1.960	-1.637	-1.358	-0.866
##	theta[63]	0.360	0.201	-0.042	0.225	0.364	0.495	0.748
##	theta[64]	0.687	0.219	0.042	0.538	0.680	0.433	1.137
##	theta[65]	0.219	0.213	-0.180	0.082	0.000	0.354	0.610
##	theta[66]	-0.037	0.200	-0.433	-0.164	-0.036	0.097	0.348
##	theta[67]	0.340	0.198	-0.045	0.104	0.339	0.037	0.724
##	theta[68]	-1.823	0.138	-3.017	-2.133	-1.766	-1.450	-0.921
##	theta[69]	-2.059	0.588	-3.408	-2.399	-2.005	-1.632	-1.081
##	theta[70]	-0.361	0.222	-0.815	-0.509	-0.355	-0.211	0.057
##	theta[70]	-0.764	0.222	-1.363	-0.950	-0.355	-0.211	-0.237
##			0.291		-1.003		-0.611	
	theta[72] theta[73]	-0.815	0.291	-1.423 -2.683		-0.802	-1.357	-0.297 -0.846
##	theta[74]	-1.689 0.565	0.468	0.170	-1.988	-1.669		
##	theta[74]				0.424	0.556	0.706	0.985
##		-0.851	0.298	-1.489	-1.044	-0.837	-0.648	-0.295
##	theta[76]	-2.000 -0.451	0.553 0.249	-3.286	-2.335 -0.611	-1.938	-1.617 -0.282	-1.078 0.013
##	theta[77]	-0.451		-0.966		-0.442		
##	theta[78]	0.553	0.208	0.146	0.411	0.550	0.692	0.969
##	theta[79]	1.741	0.547	0.891	1.343	1.655	2.064	3.014
##	theta[80]	0.414	0.194	0.043	0.281	0.412	0.542	0.794
##	theta[81]	-0.885	0.308	-1.551	-1.086	-0.867	-0.666	-0.334
##	theta[82]	0.702	0.226	0.283	0.542	0.698	0.852	1.158
##	theta[83]	-1.735	0.484	-2.824	-2.038	-1.700	-1.396	-0.914
##	theta[84]	-0.346	0.224	-0.786	-0.489	-0.345	-0.192	0.073
##	theta[85]	-0.058	0.209	-0.487	-0.198	-0.052	0.085	0.335
##	theta[86]	0.403	0.200	0.015	0.271	0.400	0.536	0.792
	theta[87]	0.470	0.196	0.084	0.340	0.472	0.596	0.860
	theta[88]	0.811	0.223	0.396	0.656	0.802	0.959	1.263
	theta[89]	1.721	0.529	0.881	1.339	1.642	2.029	2.943
	theta[90]	1.050	0.274	0.557	0.866	1.036	1.220	1.634
	theta[91]	0.313	0.200	-0.080	0.181	0.313	0.448	0.695
##	theta[92]	-1.045	0.321	-1.710	-1.256	-1.034	-0.821	-0.459
##	theta[93]	0.999	0.261	0.533	0.814	0.984	1.171	1.539
##	theta[94]	1.172	0.303	0.642	0.963	1.148	1.356	1.836
##	theta[95]	1.644	0.479	0.875	1.290	1.590	1.943	2.703
##	theta[96]	1.058	0.277	0.557	0.867	1.041	1.238	1.655
##	theta[97]	-0.029	0.202	-0.434	-0.162	-0.027	0.112	0.361
##	theta[98]	-1.090	0.325	-1.770	-1.294	-1.076	-0.866	-0.491
##	theta[99]	0.984	0.255	0.519	0.806	0.969	1.145	1.535
##	theta[100]	-1.065	0.328	-1.772	-1.273	-1.047	-0.835	-0.480
##	theta[101]	-0.726	0.276	-1.269	-0.908	-0.718	-0.541	-0.202
##	theta[102]	1.359	0.378	0.731	1.090	1.326	1.578	2.209
	theta[103]	-0.737	0.285	-1.313	-0.930	-0.727	-0.535	-0.218
##	theta[104]	1.161	0.302	0.616	0.949	1.138	1.357	1.815

	theta[105]	0.488	0.202	0.088	0.353	0.489	0.623	0.888
	theta[106]	-0.154	0.219	-0.599	-0.296	-0.152	-0.007	0.270
##	theta[107]	-0.420	0.231	-0.910	-0.566	-0.412	-0.262	0.003
##	theta[108]	1.664	0.523	0.862	1.296	1.585	1.945	2.910
##	theta[109]	0.191	0.199	-0.198	0.055	0.188	0.328	0.581
##	theta[110]	0.408	0.200	0.015	0.277	0.409	0.542	0.816
##	theta[111]	-1.060	0.336	-1.755	-1.282	-1.052	-0.824	-0.430
##	theta[112]	-1.965	0.530	-3.098	-2.303	-1.928	-1.590	-1.054
##	theta[113]	0.016	0.203	-0.394	-0.119	0.016	0.153	0.413
##	theta[114]	0.086	0.197	-0.304	-0.045	0.087	0.221	0.479
##	theta[115]	0.355	0.192	-0.016	0.227	0.353	0.484	0.735
##	theta[116]	1.175	0.309	0.635	0.958	1.155	1.370	1.834
##	theta[117]	-1.813	0.515	-2.942	-2.121	-1.773	-1.451	-0.939
##	theta[118]	-0.063	0.203	-0.462	-0.200	-0.065	0.074	0.332
##	theta[119]	0.429	0.191	0.063	0.302	0.428	0.556	0.810
##	theta[120]	-2.026	0.567	-3.243	-2.370	-1.975	-1.620	-1.063
##	theta[121]	-1.194	0.357	-1.939	-1.425	-1.178	-0.945	-0.545
##	theta[122]	-0.647	0.269	-1.193	-0.823	-0.640	-0.461	-0.146
##	theta[123]	-0.947	0.307	-1.578	-1.153	-0.939	-0.734	-0.374
##	theta[124]	1.702	0.518	0.881	1.323	1.634	1.998	2.896
##	theta[125]	0.608	0.209	0.211	0.462	0.605	0.750	1.036
##	theta[126]	0.876	0.243	0.431	0.709	0.867	1.030	1.396
##	theta[127]	1.130	0.291	0.619	0.927	1.105	1.313	1.752
##	theta[128]	0.720	0.212	0.334	0.576	0.711	0.854	1.166
##	theta[129]	-0.039	0.204	-0.440	-0.179	-0.035	0.105	0.352
##	theta[130]	0.859	0.232	0.437	0.701	0.852	1.005	1.343
##	theta[131]	-0.572	0.245	-1.070	-0.735	-0.561	-0.404	-0.108
##	theta[132]	0.369	0.199	-0.028	0.236	0.365	0.502	0.763
##	theta[133]	-0.390	0.226	-0.836	-0.540	-0.384	-0.233	0.048
##	theta[134]	-1.690	0.468	-2.646	-2.000	-1.661	-1.357	-0.865
##	theta[135]	-1.452	0.393	-2.265	-1.711	-1.441	-1.174	-0.744
##	theta[136]	1.194	0.305	0.647	0.982	1.179	1.384	1.844
##	theta[137]	0.252	0.199	-0.140	0.122	0.253	0.385	0.645
##	theta[138]	1.118	0.284	0.594	0.920	1.106	1.297	1.725
##	theta[139]	-1.506	0.439	-2.465	-1.787	-1.471	-1.191	-0.750
##	theta[140]	1.086	0.277	0.595	0.894	1.072	1.258	1.670
	theta[141]	0.204	0.196	-0.180	0.077	0.203	0.334	0.589
	theta[142]	0.934	0.246	0.479	0.762	0.925	1.093	1.451
	theta[143]	-1.034	0.334	-1.727	-1.245	-1.019	-0.794	-0.427
	theta[144]	-0.733	0.269	-1.291	-0.910	-0.724	-0.549	-0.216
	theta[145]	-0.645	0.266	-1.183	-0.820	-0.634	-0.457	-0.155
	theta[146]	0.724	0.216	0.316	0.577	0.719	0.860	1.178
	theta[147]	1.000	0.256	0.533	0.821	0.984	1.166	1.528
	theta[148]	-1.995	0.546	-3.143	-2.337	-1.974	-1.610	-0.989
	theta[149]	0.480	0.199	0.090	0.347	0.479	0.614	0.875
	theta[150]	1.684	0.525	0.872	1.310	1.610	1.978	2.943
	theta[151]	0.825	0.226	0.411	0.665	0.818	0.974	1.284
	theta[151]	1.014	0.250	0.556	0.841	1.009	1.169	1.547
	theta[153]	0.842	0.229	0.416	0.680	0.833	0.992	1.311
	theta[154]	1.042	0.229	0.410	0.844	1.021	1.219	1.659
	theta[154]	0.710	0.230	0.347	0.562	0.705	0.846	1.147
	theta[156]	1.052	0.213	0.556	0.866	1.035	1.226	1.147
	theta[150]	0.703	0.275	0.307	0.565	0.698	0.838	1.127
	theta[157]							
##	cneca[158]	0.067	0.193	-0.323	-0.060	0.065	0.196	0.453

##	theta[159]	0.228	0.193	-0.145	0.096	0.230	0.358	0.612
	theta[160]	0.849	0.233	0.400	0.692	0.840	1.001	1.329
	theta[161]	0.690	0.216	0.278	0.546	0.687	0.832	1.130
	theta[162]	0.987	0.272	0.505	0.800	0.968	1.149	1.558
	theta[163]	1.185	0.309	0.642	0.966	1.159	1.377	1.856
	theta[164]	1.068	0.269	0.591	0.879	1.054	1.237	1.646
	theta[165]	-2.003	0.567	-3.182	-2.348	-1.961	-1.610	-1.052
	theta[166]	-1.492	0.437	-2.422	-1.751	-1.458	-1.186	-0.749
	theta[167]	-1.332	0.379	-2.154	-1.565	-1.317	-1.064	-0.656
	theta[168]	1.683	0.502	0.876	1.325	1.625	1.997	2.784
	theta[169]	0.955	0.251	0.491	0.781	0.937	1.114	1.474
	theta[170]	-2.028	0.545	-3.228	-2.359	-1.978	-1.645	-1.089
	theta[171]	-0.330	0.212	-0.751	-0.470	-0.323	-0.190	0.072
	theta[172]	0.602	0.209	0.197	0.460	0.599	0.741	1.025
	theta[173]	1.667	0.472	0.891	1.327	1.617	1.951	2.709
	theta[174]	-0.008	0.200	-0.421	-0.140	-0.010	0.130	0.379
##	theta[175]	-0.529	0.248	-1.024	-0.695	-0.528	-0.358	-0.065
##	theta[176]	-0.065	0.206	-0.474	-0.201	-0.061	0.073	0.326
##	theta[177]	0.293	0.199	-0.096	0.160	0.295	0.422	0.676
##	theta[178]	-0.516	0.242	-1.009	-0.674	-0.509	-0.354	-0.049
##	theta[179]	0.465	0.199	0.082	0.328	0.463	0.593	0.854
##	theta[180]	0.913	0.247	0.469	0.741	0.902	1.060	1.447
##	theta[181]	-1.376	0.391	-2.199	-1.625	-1.359	-1.099	-0.664
##	theta[182]	0.323	0.205	-0.088	0.188	0.325	0.461	0.728
##	theta[183]	0.200	0.203	-0.201	0.065	0.201	0.337	0.597
##	theta[184]	1.355	0.375	0.723	1.085	1.319	1.586	2.170
##	theta[185]	1.159	0.296	0.625	0.951	1.139	1.345	1.801
##	theta[186]	0.853	0.232	0.418	0.696	0.844	1.004	1.334
##	theta[187]	-0.619	0.253	-1.142	-0.781	-0.612	-0.449	-0.146
##	theta[188]	-0.552	0.256	-1.076	-0.719	-0.542	-0.379	-0.064
##	theta[189]	1.697	0.494	0.887	1.336	1.639	1.999	2.786
	theta[190]	1.698	0.506	0.876	1.335	1.623	1.993	2.827
##	theta[191]	0.953	0.249	0.493	0.780	0.945	1.111	1.476
	theta[192]	1.155	0.303	0.628	0.943	1.132	1.343	1.820
	theta[193]	1.159	0.306	0.624	0.947	1.133	1.343	1.828
	theta[194]	-0.240	0.204	-0.652	-0.375	-0.232	-0.098	0.145
	theta[195]	-1.063	0.332	-1.777	-1.267	-1.044	-0.841	-0.459
	theta[196]	1.162	0.298	0.628	0.951	1.146	1.356	1.789
	theta[197]	1.130	0.297	0.616	0.925	1.108	1.315	1.762
	theta[198]	1.670	0.488	0.864	1.314	1.622	1.973	2.741
	theta[199]	1.411	0.389	0.778	1.131	1.369	1.645	2.293
	theta[200]	-0.464	0.234	-0.943	-0.614	-0.454	-0.304	-0.019
	theta[201]	1.695	0.491	0.908	1.326	1.646	2.008	2.792
	theta[202]	0.954	0.248	0.507	0.780	0.941	1.113	1.494
	theta[203]	0.624	0.209	0.221	0.482	0.622	0.761	1.047
	theta[204]	1.116	0.288	0.607	0.920	1.099	1.292	1.742
	theta[205]	-0.075	0.210	-0.496	-0.218	-0.075	0.068	0.326
	theta[206]	0.304	0.198	-0.078	0.170	0.302	0.435	0.694
	theta[207]	0.473	0.199	0.090	0.340	0.471	0.605	0.872
	theta[208]	-0.191	0.214	-0.612	-0.332	-0.190	-0.044	0.224
	theta[209]	0.949	0.248	0.498	0.775	0.939	1.112	1.470
	theta[210]	1.724	0.502	0.906	1.355	1.675	2.032	2.897
	theta[211]	-0.797	0.284	-1.372	-0.990	-0.780	-0.600	-0.276
##	theta[212]	0.146	0.197	-0.246	0.017	0.146	0.276	0.537

##	theta[213]	1.728	0.528	0.888	1.340	1.653	2.034	2.939
##	theta[214]	1.165	0.303	0.624	0.950	1.141	1.353	1.808
##	theta[215]	-0.621	0.260	-1.145	-0.790	-0.617	-0.441	-0.136
##	theta[216]	1.693	0.482	0.905	1.342	1.637	1.988	2.729
##	theta[217]	-1.662	0.450	-2.623	-1.947	-1.649	-1.348	-0.857
##	theta[218]	0.926	0.248	0.468	0.755	0.919	1.088	1.431
##	theta[219]	0.140	0.191	-0.228	0.013	0.136	0.269	0.515
##	theta[220]	0.365	0.189	-0.010	0.242	0.365	0.486	0.737
##	theta[221]	0.143	0.201	-0.263	0.010	0.142	0.276	0.532
##	theta[222]	0.560	0.207	0.168	0.417	0.553	0.698	0.977
##	theta[223]	1.704	0.500	0.895	1.346	1.648	1.999	2.844
##	theta[224]	-1.826	0.520	-3.000	-2.138	-1.780	-1.458	-0.932
##	theta[225]	0.845	0.228	0.421	0.692	0.836	0.993	1.314
##	theta[226]	-0.486	0.238	-0.972	-0.638	-0.477	-0.321	-0.042
##	theta[227]	-1.983	0.533	-3.159	-2.320	-1.932	-1.599	-1.080
##	theta[228]	-0.848	0.285	-1.439	-1.032	-0.838	-0.647	-0.320
##	theta[229]	1.000	0.262	0.512	0.819	0.989	1.169	1.541
##	theta[230]	0.173	0.199	-0.227	0.042	0.176	0.307	0.567
##	theta[231]	-1.997	0.557	-3.163	-2.360	-1.951	-1.590	-1.050
##	theta[232]	0.370	0.201	-0.027	0.237	0.371	0.505	0.764
##	theta[233]	-0.690	0.274	-1.258	-0.878	-0.680	-0.497	-0.184
##	theta[234]	0.820	0.232	0.391	0.662	0.812	0.967	1.300
##	theta[235]	-0.580	0.255	-1.106	-0.745	-0.572	-0.402	-0.116
##	theta[236]	-0.130	0.203	-0.546	-0.263	-0.129	0.007	0.271
##	theta[237]	-0.005	0.209	-0.420	-0.149	-0.005	0.141	0.387
##	theta[238]	1.137	0.286	0.622	0.936	1.119	1.326	1.727
##	theta[239]	-0.031	0.192	-0.417	-0.155	-0.026	0.097	0.335
##	theta[240]	-0.515	0.245	-1.036	-0.670	-0.507	-0.351	-0.054
##	theta[241]	0.737	0.221	0.324	0.591	0.730	0.880	1.187
##	theta[242]	0.283	0.201	-0.111	0.149	0.285	0.414	0.675
##	theta[243]	0.500	0.207	0.098	0.358	0.500	0.637	0.917
##	theta[244]	-0.605	0.274	-1.189	-0.783	-0.591	-0.415	-0.102
##	theta[245]	1.483	0.405	0.810	1.187	1.446	1.736	2.365
##	theta[246]	-1.704	0.463	-2.677	-2.001	-1.660	-1.379	-0.880
##	theta[247]	0.752	0.219	0.344	0.601	0.744	0.896	1.196
##	theta[248]	0.782	0.242	0.445	0.720	0.879	1.044	1.382
	theta[249]	-1.302	0.376	-2.064	-1.545	-1.286	-1.041	-0.610
	theta[250]	-0.942	0.317	-1.577	-1.153	-0.935	-0.727	-0.358
	theta[251]	-1.361	0.385	-2.190	-1.599	-1.341	-1.090	-0.673
	theta[252]	0.180	0.197	-0.202	0.043	0.182	0.315	0.574
	theta[253]	-0.884	0.288	-1.481	-1.071	-0.873	-0.680	-0.362
	theta[254]	0.877	0.235	0.441	0.718	0.867	1.022	1.367
	theta[255]	-0.600	0.248	-1.102	-0.763	-0.592	-0.430	-0.137
	theta[256]	0.715	0.215	0.304	0.571	0.712	0.851	1.149
	theta[257]	1.679	0.466	0.899	1.342	1.636	1.968	2.715
	theta[258]	0.955	0.255	0.495	0.777	0.939	1.116	1.493
	theta[259]	0.286	0.202	-0.103	0.148	0.287	0.422	0.683
	theta[260]	0.490	0.205	0.099	0.353	0.486	0.624	0.901
	theta[261]	-1.034	0.333	-1.746	-1.242	-1.018	-0.803	-0.438
	theta[261]	0.618	0.333	0.242	0.483	0.611	0.750	1.026
	theta[263]	-0.504	0.255	-1.031	-0.675	-0.494	-0.329	-0.023
	theta[264]	-1.153	0.233	-1.875	-1.373	-1.131	-0.916	-0.527
	theta[265]	-0.697	0.341	-1.256	-0.863	-0.683	-0.518	-0.218
	theta[266]	0.871	0.246	0.416	0.704	0.860	1.027	1.376
	5110 0G [200]	0.011	0.210	0.110	0.101	0.000	1.021	1.070

##	theta[267]	1.169	0.313	0.595	0.949	1.156	1.372	1.802
##	theta[268]	-0.126	0.208	-0.543	-0.261	-0.122	0.018	0.270
##	theta[269]	0.365	0.198	-0.024	0.230	0.362	0.498	0.754
##	theta[270]	0.762	0.225	0.338	0.608	0.755	0.908	1.220
##	theta[271]	-0.679	0.282	-1.273	-0.858	-0.663	-0.488	-0.155
##	theta[272]	0.299	0.192	-0.077	0.168	0.300	0.432	0.663
##	theta[273]	1.055	0.269	0.573	0.860	1.038	1.224	1.634
##	theta[274]	-0.315	0.220	-0.760	-0.459	-0.308	-0.165	0.098
##	theta[275]	1.730	0.549	0.922	1.346	1.652	2.019	3.005
##	theta[276]	-0.050	0.209	-0.463	-0.187	-0.051	0.095	0.359
##	theta[277]	0.683	0.214	0.265	0.536	0.677	0.829	1.103
##	theta[278]	1.652	0.485	0.877	1.306	1.592	1.937	2.730
##	theta[279]	1.156	0.300	0.623	0.952	1.141	1.340	1.817
##	theta[280]	1.683	0.486	0.875	1.339	1.625	1.970	2.776
##	theta[281]	1.048	0.268	0.552	0.866	1.033	1.222	1.607
##	theta[282]	1.724	0.532	0.887	1.335	1.661	2.027	3.014
##	theta[283]	0.426	0.189	0.065	0.297	0.421	0.552	0.809
##	theta[284]	1.179	0.305	0.642	0.963	1.158	1.363	1.836
##	theta[285]	0.446	0.187	0.084	0.319	0.443	0.570	0.825
##	theta[286]	-0.755	0.271	-1.307	-0.926	-0.744	-0.568	-0.254
##	theta[287]	0.638	0.217	0.233	0.489	0.635	0.776	1.079
##	theta[288]	0.864	0.234	0.432	0.707	0.857	1.008	1.354
##	theta[289]	0.442	0.202	0.053	0.305	0.439	0.576	0.844
##	theta[290]	1.049	0.274	0.561	0.862	1.026	1.226	1.635
##	theta[291]	-1.987	0.538	-3.166	-2.332	-1.939	-1.610	-1.059
##	theta[292]	-0.295	0.226	-0.748	-0.447	-0.292	-0.137	0.124
##	theta[293]	-0.057	0.204	-0.464	-0.191	-0.056	0.083	0.340
##	theta[294]	-0.690	0.273	-1.258	-0.871	-0.684	-0.505	-0.176
##	theta[295]	1.162	0.293	0.646	0.953	1.144	1.352	1.790
##	theta[296]	-1.078	0.339	-1.794	-1.290	-1.055	-0.844	-0.481
##	theta[297]	-0.909	0.283	-1.492	-1.099	-0.897	-0.709	-0.388
##	theta[298]	0.307	0.189	-0.065	0.179	0.307	0.433	0.686
##	theta[299]	-0.822	0.281	-1.389	-1.006	-0.810	-0.623	-0.306
##	theta[300]	0.936	0.253	0.476	0.757	0.927	1.097	1.469
##	theta[301]	1.156	0.292	0.639	0.953	1.136	1.340	1.760
##	theta[302]	1.123	0.287	0.604	0.927	1.104	1.299	1.736
	theta[303]	0.367	0.199	-0.023	0.237	0.368	0.501	0.767
	theta[304]	-0.280	0.215	-0.707	-0.428	-0.277	-0.129	0.126
	theta[305]	1.098	0.299	0.589	0.889	1.074	1.285	1.749
	theta[306]	0.481	0.202	0.102	0.342	0.476	0.615	0.883
	theta[307]	-0.424	0.240	-0.924	-0.578	-0.416	-0.263	0.029
	theta[308]	-0.406	0.237	-0.907	-0.562	-0.397	-0.242	0.031
	theta[309]	-1.333	0.398	-2.222	-1.575	-1.298	-1.056	-0.622
	theta[310]	-0.548	0.254	-1.065	-0.714	-0.543	-0.368	-0.074
##	theta[311]	0.145	0.201	-0.260	0.011	0.145	0.280	0.539
##	theta[312]	-1.493	0.434	-2.407	-1.754	-1.459	-1.198	-0.739
	theta[313]	0.508	0.208	0.106	0.370	0.506	0.646	0.906
##	theta[314]	-0.467	0.248	-0.983	-0.629	-0.459	-0.294	-0.011
	theta[315]	0.832	0.231	0.399	0.676	0.827	0.980	1.309
##	theta[316]	-0.245	0.226	-0.703	-0.395	-0.237	-0.093	0.185
	theta[317]	-0.345	0.231	-0.823	-0.496	-0.339	-0.191	0.095
	theta[318]	0.543	0.208	0.144	0.402	0.545	0.682	0.951
	theta[319]	0.754	0.222	0.340	0.605	0.744	0.899	1.215
##	theta[320]	-0.622	0.269	-1.175	-0.795	-0.611	-0.443	-0.121

	theta[321]	-0.245	0.223	-0.705	-0.386	-0.241	-0.092	0.176
	theta[322]	0.904	0.238	0.474	0.736	0.890	1.056	1.399
	theta[323]	1.151	0.297	0.629	0.944	1.129	1.334	1.780
##	theta[324]	0.618	0.209	0.228	0.473	0.613	0.757	1.034
##	theta[325]	0.868	0.242	0.422	0.702	0.854	1.025	1.371
##	theta[326]	-0.496	0.247	-1.014	-0.657	-0.487	-0.322	-0.046
##	theta[327]	-1.374	0.389	-2.179	-1.618	-1.351	-1.100	-0.664
##	theta[328]	0.480	0.209	0.067	0.339	0.478	0.623	0.892
##	theta[329]	-0.044	0.207	-0.466	-0.176	-0.039	0.095	0.345
##	theta[330]	-0.340	0.239	-0.832	-0.495	-0.334	-0.178	0.116
##	theta[331]	-0.204	0.223	-0.646	-0.354	-0.194	-0.049	0.211
##	theta[332]	0.075	0.198	-0.304	-0.058	0.073	0.209	0.474
##	theta[333]	-0.608	0.265	-1.145	-0.789	-0.600	-0.422	-0.113
##	theta[334]	-1.759	0.483	-2.794	-2.058	-1.727	-1.421	-0.907
##	theta[335]	0.585	0.206	0.195	0.439	0.582	0.724	0.992
##	theta[336]	0.022	0.208	-0.386	-0.114	0.025	0.163	0.418
##	theta[337]	-0.825	0.291	-1.419	-1.018	-0.812	-0.627	-0.285
##	theta[338]	-0.742	0.290	-1.361	-0.926	-0.732	-0.542	-0.207
##	theta[339]	0.232	0.202	-0.158	0.094	0.233	0.367	0.620
##	theta[340]	1.164	0.295	0.624	0.961	1.145	1.351	1.804
##	theta[341]	1.164	0.310	0.600	0.943	1.149	1.359	1.822
##	theta[342]	-1.771	0.493	-2.848	-2.074	-1.731	-1.422	-0.925
##	theta[343]	-1.300	0.386	-2.125	-1.538	-1.266	-1.032	-0.627
##	theta[344]	0.869	0.240	0.419	0.707	0.860	1.022	1.358
##	theta[345]	-1.321	0.393	-2.144	-1.568	-1.295	-1.041	-0.627
##	theta[346]	0.915	0.246	0.482	0.744	0.900	1.075	1.418
##	theta[347]	-0.257	0.215	-0.692	-0.402	-0.257	-0.110	0.160
##	theta[348]	0.111	0.201	-0.302	-0.018	0.112	0.246	0.503
##	theta[349]	-0.260	0.230	-0.731	-0.414	-0.260	-0.099	0.174
##	theta[350]	0.709	0.214	0.305	0.561	0.702	0.855	1.143
##	theta[351]	1.365	0.375	0.749	1.103	1.333	1.590	2.203
##	theta[352]	-0.610	0.270	-1.164	-0.785	-0.604	-0.429	-0.102
##	theta[353]	-1.316	0.377	-2.122	-1.549	-1.293	-1.051	-0.648
##	theta[354]	1.161	0.309	0.637	0.935	1.135	1.359	1.827
##	theta[355]	-0.182	0.224	-0.642	-0.324	-0.179	-0.026	0.236
##	theta[356]	0.769	0.227	0.340	0.617	0.758	0.919	1.240
	theta[357]	-0.067	0.213	-0.498	-0.204	-0.063	0.081	0.333
	theta[358]	1.676	0.492	0.430	1.322	1.623	1.969	2.784
	theta[359]	0.927	0.432	0.458	0.761	0.921	1.085	1.433
	theta[360]	0.092	0.247	-0.318	-0.041	0.090	0.227	0.490
	theta[361]	0.092	0.204	0.318	0.602	0.742	0.891	1.196
	theta[362]	0.748	0.219	-0.021	0.002	0.742	0.498	0.749
	theta[363]	0.858	0.130	0.021	0.698	0.850	1.012	1.342
	theta[364]	-0.677	0.238	-1.247	-0.853	-0.666	-0.488	-0.177
	theta[365]	0.689	0.274	0.280	0.539	0.678	0.837	1.143
	theta[366]	0.089	0.219	-0.165	0.099	0.078	0.370	0.631
	theta[367]			-1.277				-0.163
	theta[368]	-0.694	0.282		-0.878	-0.681	-0.501	
##		0.887	0.242	0.441	0.717	0.879	1.047	1.366
##	theta[369]	1.061	0.264	0.579	0.879	1.049	1.234	1.624
	theta[370]	1.156	0.306	0.616	0.941	1.142	1.344	1.802
	theta[371]	-0.423	0.247	-0.930	-0.582	-0.419	-0.246	0.043
	theta[372]	-0.609	0.279	-1.210	-0.784	-0.598	-0.416	-0.104
	theta[373]	-0.235	0.227	-0.688	-0.387	-0.232	-0.082	0.195
##	theta[374]	0.733	0.224	0.296	0.581	0.732	0.883	1.183

##	theta[375]	0.793	0.239	0.349	0.628	0.785	0.945	1.294
##	theta[376]	0.706	0.218	0.290	0.556	0.702	0.851	1.141
##	theta[377]	-0.606	0.273	-1.177	-0.778	-0.597	-0.416	-0.097
##	theta[378]	0.072	0.204	-0.324	-0.066	0.074	0.211	0.468
##	theta[379]	0.132	0.210	-0.298	-0.006	0.138	0.271	0.550
##	theta[380]	-0.568	0.256	-1.100	-0.737	-0.558	-0.387	-0.098
##	theta[381]	-0.244	0.225	-0.705	-0.383	-0.240	-0.089	0.184
##	theta[382]	-0.205	0.222	-0.645	-0.352	-0.206	-0.056	0.215
##	theta[383]	0.911	0.252	0.443	0.740	0.896	1.074	1.443
##	theta[384]	0.668	0.215	0.252	0.522	0.666	0.809	1.083
##	theta[385]	0.865	0.239	0.420	0.703	0.853	1.018	1.363
##	theta[386]	-0.006	0.208	-0.410	-0.147	0.004	0.136	0.390
##	theta[387]	-0.609	0.269	-1.159	-0.784	-0.599	-0.422	-0.115
##	theta[388]	-0.135	0.222	-0.587	-0.279	-0.132	0.014	0.294
##	theta[389]	1.173	0.301	0.644	0.963	1.153	1.358	1.822
##	theta[390]	-0.367	0.244	-0.863	-0.523	-0.353	-0.198	0.087
##	theta[391]	-0.250	0.226	-0.704	-0.399	-0.248	-0.097	0.179
##	theta[392]	-0.759	0.291	-1.352	-0.943	-0.747	-0.561	-0.228
##	theta[393]	-0.666	0.275	-1.225	-0.853	-0.658	-0.474	-0.160
##	theta[394]	1.676	0.483	0.897	1.333	1.611	1.967	2.768
##	theta[395]	-1.318	0.377	-2.075	-1.570	-1.304	-1.054	-0.616
##	theta[396]	1.704	0.506	0.888	1.345	1.641	2.004	2.835
##	theta[397]	-1.319	0.390	-2.151	-1.553	-1.288	-1.044	-0.652
##	theta[398]	-0.099	0.217	-0.545	-0.242	-0.096	0.052	0.307
##	theta[399]	-1.708	0.482	-2.784	-2.005	-1.673	-1.365	-0.873
##	theta[400]	1.049	0.271	0.557	0.862	1.037	1.216	1.635
##	theta[401]	-0.017	0.210	-0.426	-0.160	-0.017	0.124	0.394
##	theta[402]	0.468	0.200	0.077	0.333	0.465	0.603	0.867
##	theta[403]	0.833	0.230	0.408	0.677	0.824	0.981	1.308
##	theta[404]	-0.318	0.233	-0.799	-0.470	-0.310	-0.157	0.116
##	theta[405]	0.715	0.223	0.308	0.563	0.699	0.865	1.160
##	theta[406]	-1.351	0.381	-2.157	-1.600	-1.339	-1.084	-0.657
##	theta[407]	-0.399	0.243	-0.896	-0.559	-0.391	-0.231	0.045
##	theta[408]	-1.362	0.383	-2.152	-1.611	-1.347	-1.089	-0.666
##	theta[409]	0.695	0.216	0.288	0.546	0.693	0.838	1.128
##	theta[410]	0.975	0.262	0.495	0.790	0.959	1.145	1.533
	theta[411]	-0.297	0.234	-0.758	-0.455	-0.293	-0.135	0.134
	theta[412]	-0.607	0.270	-1.159	-0.782	-0.595	-0.418	-0.111
	theta[413]	1.358	0.383	0.719	1.084	1.324	1.585	2.183
	theta[414]	-0.951	0.311	-1.607	-1.159	-0.937	-0.740	-0.376
	theta[415]	-1.516	0.412	-2.384	-1.771	-1.507	-1.223	-0.766
	theta[416]	-0.346	0.232	-0.821	-0.495	-0.338	-0.189	0.097
	theta[417]	-0.439	0.245	-0.949	-0.596	-0.429	-0.270	0.011
	theta[418]	-0.628	0.275	-1.194	-0.802	-0.618	-0.438	-0.121
##	theta[419]	-0.091	0.215	-0.507	-0.235	-0.088	0.052	0.329
##	theta[420]	-0.360	0.229	-0.832	-0.508	-0.353	-0.206	0.061
##	theta[421]	-1.488	0.435	-2.442	-1.753	-1.456	-1.183	-0.730
##	theta[422]	0.609	0.210	0.213	0.467	0.602	0.745	1.047
##	theta[423]	-1.452	0.421	-2.345	-1.721	-1.434	-1.158	-0.706
##	theta[424]	-0.530	0.262	-1.078	-0.696	-0.523	-0.354	-0.043
	theta[425]	-0.537	0.261	-1.076	-0.709	-0.530	-0.356	-0.051
	theta[426]	-1.376	0.398	-2.205	-1.628	-1.357	-1.103	-0.647
	theta[427]	-0.523	0.255	-1.033	-0.693	-0.517	-0.352	-0.046
	theta[428]	0.715	0.216	0.308	0.573	0.708	0.854	1.151
			-				-	

##	theta[429]	0.865	0.241	0.429	0.696	0.853	1.016	1.374
	theta[430]	-0.511	0.263	-1.041	-0.688	-0.502	-0.329	-0.023
	theta[431]	1.676	0.513	0.868	1.305	1.616	1.968	2.899
	theta[432]	0.800	0.234	0.363	0.638	0.793	0.954	1.283
	theta[433]	0.803	0.239	0.361	0.639	0.796	0.958	1.295
	theta[434]	0.867	0.242	0.414	0.703	0.856	1.022	1.362
	theta[435]	-1.516	0.447	-2.473	-1.803	-1.481	-1.201	-0.754
	theta[436]	-1.388	0.397	-2.251	-1.641	-1.356	-1.113	-0.697
	theta[437]	-0.611	0.272	-1.167	-0.787	-0.604	-0.419	-0.115
	theta[438]	0.093	0.206	-0.322	-0.045	0.096	0.233	0.487
	theta[439]	0.675	0.216	0.272	0.529	0.672	0.817	1.115
	theta[440]	0.719	0.223	0.297	0.569	0.712	0.863	1.172
	theta[441]	-1.306	0.382	-2.119	-1.554	-1.286	-1.030	-0.636
	theta[442]	-1.376	0.383	-2.195	-1.628	-1.357	-1.110	-0.666
	theta[443]	0.686	0.216	0.279	0.539	0.682	0.827	1.113
	theta[444]	0.237	0.204	-0.168	0.102	0.236	0.376	0.617
	theta[445]	1.133	0.288	0.600	0.934	1.118	1.315	1.742
	theta[446]	-1.377	0.387	-2.222	-1.628	-1.351	-1.101	-0.682
	theta[447]	0.564	0.206	0.159	0.423	0.565	0.701	0.985
	theta[448]	0.311	0.202	-0.075	0.172	0.306	0.445	0.710
	theta[449]	0.033	0.202	-0.358	-0.101	0.038	0.167	0.429
	theta[450]	-0.458	0.248	-0.962	-0.619	-0.449	-0.288	0.007
	theta[451]	-0.766	0.291	-1.361	-0.957	-0.754	-0.562	-0.229
	theta[452]	-0.437	0.238	-0.932	-0.593	-0.431	-0.269	0.006
	theta[453]	1.070	0.282	0.571	0.876	1.055	1.240	1.693
	theta[454]	-1.367	0.382	-2.170	-1.611	-1.354	-1.103	-0.670
	theta[455]	-0.356	0.222	-0.808	-0.502	-0.347	-0.208	0.078
	theta[456]	0.954	0.263 0.214	0.486	0.777	0.939 -0.060	1.111 0.083	1.540
	theta[457] theta[458]	-0.064 0.904	0.214	-0.490 0.457	-0.204 0.740	0.893	1.061	0.343 1.412
	theta[450]	0.896	0.242	0.437	0.740	0.885	1.061	1.412
	theta[460]	0.090	0.207	-0.288	-0.025	0.883	0.256	0.511
	theta[460]	0.113	0.207	-0.162	0.023	0.118	0.230	0.634
	theta[461]	-0.759	0.203	-1.363	-0.935	-0.741	-0.563	-0.231
	theta[463]	-0.427	0.242	-0.917	-0.587	-0.420	-0.263	0.032
##	theta[464]	0.561	0.242	0.317	0.421	0.555	0.696	0.032
	theta[465]	0.069	0.208	-0.343	-0.070	0.068	0.208	0.479
	theta[466]	0.720	0.228	0.284	0.562	0.716	0.868	1.180
	theta[467]	-0.402	0.243	-0.901	-0.563	-0.395	-0.238	0.041
	theta[468]	1.160	0.298	0.623	0.952	1.144	1.350	1.799
	theta[469]	0.161	0.205	-0.235	0.021	0.161	0.304	0.560
	theta[470]	0.470	0.205	0.072	0.331	0.466	0.612	0.873
	theta[471]	0.238	0.205	-0.171	0.105	0.234	0.378	0.632
	theta[472]	0.870	0.243	0.412	0.702	0.866	1.028	1.372
	theta[473]	0.771	0.231	0.343	0.612	0.765	0.916	1.261
	theta[474]	0.767	0.226	0.350	0.611	0.756	0.912	1.236
##	theta[475]	-1.716	0.471	-2.687	-2.014	-1.685	-1.385	-0.889
##	theta[476]	1.047	0.269	0.570	0.861	1.034	1.214	1.634
##	theta[477]	0.107	0.206	-0.306	-0.028	0.110	0.245	0.504
	theta[478]	0.576	0.209	0.166	0.435	0.580	0.715	0.994
##	theta[479]	-0.268	0.226	-0.723	-0.414	-0.261	-0.116	0.157
	theta[480]	0.637	0.210	0.238	0.493	0.632	0.778	1.058
##	theta[481]	0.703	0.222	0.274	0.556	0.697	0.851	1.138
##	theta[482]	-0.639	0.273	-1.199	-0.823	-0.627	-0.446	-0.144

##	theta[483]	-0.080	0.218	-0.519	-0.224	-0.080	0.063	0.358
##	theta[484]	-0.096	0.218	-0.543	-0.240	-0.092	0.055	0.309
##	theta[485]	-0.094	0.216	-0.524	-0.242	-0.090	0.056	0.312
							0.030	0.312
##	theta[486]	-0.067	0.212	-0.487	-0.205	-0.065		
##	theta[487]	0.472	0.208	0.064	0.330	0.469	0.612	0.877
##	theta[488]	-0.532	0.259	-1.064	-0.702	-0.529	-0.352	-0.046
##	theta[489]	0.692	0.220	0.278	0.540	0.691	0.839	1.126
##	theta[490]	-0.464	0.243	-0.962	-0.622	-0.453	-0.295	-0.015
##	theta[491]	-1.364	0.384	-2.190	-1.607	-1.335	-1.095	-0.692
##	theta[492]	0.155	0.198	-0.233	0.025	0.157	0.287	0.548
##	theta[493]	-1.768	0.505	-2.937	-2.064	-1.720	-1.418	-0.912
##	theta[494]	0.881	0.249	0.435	0.711	0.862	1.043	1.385
##	theta[495]	-1.220	0.356	-1.962	-1.459	-1.207	-0.965	-0.571
##	theta[496]	0.523	0.208	0.128	0.384	0.521	0.663	0.939
##	theta[497]	-1.422	0.397	-2.267	-1.682	-1.398	-1.146	-0.714
##	theta[498]	-1.636	0.461	-2.623	-1.935	-1.596	-1.305	-0.839
##	theta[499]	-1.561	0.436	-2.469	-1.832	-1.533	-1.253	-0.802
##	theta[500]	-0.765	0.284	-1.346	-0.949	-0.754	-0.565	-0.251
##	theta[501]	0.029	0.213	-0.384	-0.114	0.033	0.174	0.440
##	theta[502]	-0.499	0.249	-1.015	-0.662	-0.486	-0.330	-0.051
##	theta[503]	-1.651	0.458	-2.678	-1.932	-1.620	-1.330	-0.861
##	theta[504]	-0.663	0.282	-1.270	-0.844	-0.652	-0.470	-0.143
##	theta[505]	-1.239	0.358	-1.979	-1.463	-1.221	-0.990	-0.575
##	theta[506]	-1.559	0.432	-2.470	-1.830	-1.535	-1.263	-0.781
##	theta[507]	-0.767	0.282	-1.339	-0.955	-0.753	-0.565	-0.255
##	theta[508]	-0.680	0.287	-1.275	-0.864	-0.672	-0.489	-0.143
##	theta[509]	-1.569	0.432	-2.518	-1.827	-1.534	-1.273	-0.805
##	theta[510]	-1.012	0.296	-1.623	-1.205	-1.004	-0.811	-0.462
##	theta[511]	-0.524	0.269	-1.071	-0.701	-0.513	-0.340	-0.030
##	theta[512]	-0.613	0.274	-1.176	-0.792	-0.599	-0.427	-0.111
##	theta[513]	0.529	0.205	0.138	0.388	0.522	0.667	0.947
##	theta[514]	-0.613	0.277	-1.188	-0.789	-0.601	-0.433	-0.091
##	theta[515]	-0.661	0.277	-1.227	-0.849	-0.652	-0.466	-0.150
##	theta[516]	-0.569	0.262	-1.103	-0.742	-0.560	-0.385	-0.083
##	theta[517]	-1.113	0.336	-1.813	-1.337	-1.101	-0.872	-0.509
##	theta[518]	0.038	0.213	-0.384	-0.105	0.039	0.185	0.451
##	theta[519]	-1.546	0.415	-2.454	-1.793	-1.521	-1.250	-0.822
##	theta[520]	0.411	0.202	0.019	0.275	0.409	0.548	0.814
##	theta[521]	-0.955	0.294	-1.559	-1.146	-0.946	-0.759	-0.405
##	theta[522]	-1.446	0.403	-2.296	-1.696	-1.420	-1.163	-0.737
##	theta[523]	-1.469	0.413	-2.343	-1.746	-1.437	-1.180	-0.713
##	theta[524]	-1.384	0.398	-2.228	-1.636	-1.351	-1.103	-0.683
##	theta[525]	-1.121	0.310	-1.743	-1.320	-1.111	-0.906	-0.555
##	theta[526]	-1.457	0.403	-2.303	-1.720	-1.433	-1.176	-0.722
##	theta[527]	0.041	0.210	-0.373	-0.093	0.043	0.183	0.452
##	theta[528]	0.033	0.211	-0.401	-0.104	0.038	0.174	0.434
	theta[529]	-1.419	0.388	-2.234	-1.668	-1.406	-1.138	-0.723
##	theta[530]	-1.110	0.315	-1.762	-1.314	-1.098	-0.885	-0.541
##	theta[531]	-1.001	0.297	-1.606	-1.196	-0.995	-0.791	-0.450
##	theta[532]	-2.019	0.567	-3.261	-2.375	-1.973	-1.610	-1.060
	theta[533]	0.635	0.210	0.230	0.494	0.629	0.772	1.052
	theta[534]	-1.978	0.530	-3.131	-2.311	-1.943	-1.607	-1.041
	theta[535]	0.602	0.210	0.204	0.457	0.595	0.739	1.019
	theta[536]	0.058	0.203	-0.341	-0.077	0.062	0.194	0.453
	_							

```
## deviance
               7912.126 35.314 7845.416 7888.057 7911.740 7935.642 7982.101
##
               Rhat n.eff
## a[1]
               1.007
                       480
               1.004
                       700
## a[2]
## a[3]
               1.002
                      1400
## a[4]
               1.004
                       820
## a[5]
               1.001
                      4000
               1.001
                      4000
## a[6]
## a[7]
               1.002
                      1400
## a[8]
                      3000
               1.001
## a[9]
               1.012
                       240
## a[10]
               1.003
                      1000
## a[11]
               1.005
                       590
## a[12]
               1.004
                       650
## a[13]
               1.006
                       490
## a[14]
               1.002
                      2200
## a[15]
               1.004
                       720
## a[16]
               1.002
                      1400
## a[17]
               1.003
                      1000
## a[18]
               1.003
                       890
## a[19]
               1.005
                       580
## a[20]
               1.005
                       580
## b[1]
               1.002
                      2200
## b[2]
               1.002
                      1400
## b[3]
               1.002
                      1300
## b[4]
               1.001
                      4000
## b[5]
               1.001
                      3100
## b[6]
               1.001
                      4000
## b[7]
               1.002
                      2300
## b[8]
                      2000
               1.002
## b[9]
               1.005
                       530
## b[10]
               1.001
                      3000
## b[11]
               1.001
                      3400
## b[12]
               1.002
                      1300
## b[13]
               1.002
                      1900
## b[14]
               1.001
                      3200
## b[15]
               1.001
                      4000
## b[16]
               1.002
                      2200
## b[17]
               1.001
                      4000
               1.001
## b[18]
                      3400
## b[19]
               1.001
                      4000
## b[20]
               1.001
                      4000
## mu[1]
               1.002
                      2500
## mu[2]
               1.001
                      3000
## mu[3]
               1.003
                      1200
## mu[4]
               1.001
                      4000
## mu[5]
               1.001
                      4000
## mu[6]
               1.002
                      1600
## mu[7]
               1.001
                      2900
## mu[8]
               1.001
                      4000
## mu[9]
               1.001
                      4000
## mu[10]
               1.003
                      1300
## mu[11]
               1.001
                      3500
## mu[12]
               1.001 4000
```

```
## mu[13]
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                      1500
## mu[14]
               1.001
                      4000
## mu[15]
               1.002
                       1900
## mu[16]
               1.001
                      4000
## mu[17]
               1.001
                      4000
## mu[18]
               1.002
                      1600
## mu[19]
               1.004
                        720
## mu[20]
               1.002
                      1500
## theta[1]
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                       4000
               1.003
## theta[2]
                        950
## theta[3]
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                      1400
## theta[4]
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                       4000
##
  theta[5]
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                      4000
## theta[6]
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                        620
## theta[7]
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                        390
## theta[8]
               1.001
                       3900
## theta[9]
               1.003
                       1100
  theta[10]
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                       1700
## theta[11]
               1.001
                      4000
## theta[12]
               1.002
                       2300
## theta[13]
               1.001
                       3300
## theta[14]
               1.004
                        960
## theta[15]
               1.002
                       1800
## theta[16]
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                       4000
## theta[17]
               1.002
                       2100
## theta[18]
               1.004
                        980
## theta[19]
               1.001
                       4000
  theta[20]
               1.009
##
                        360
## theta[21]
               1.001
                       4000
## theta[22]
               1.001
                       4000
## theta[23]
               1.004
                        760
## theta[24]
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                      3900
   theta[25]
               1.002
                       2100
## theta[26]
               1.010
                        310
## theta[27]
               1.001
                       4000
## theta[28]
               1.004
                        830
## theta[29]
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                       2600
## theta[30]
               1.007
                        490
## theta[31]
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                       1600
## theta[32]
                        270
               1.010
## theta[33]
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                        440
## theta[34]
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                       4000
## theta[35]
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                        890
  theta[36]
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                       3800
## theta[37]
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                       4000
## theta[38]
               1.002
                       1300
## theta[39]
               1.001
                       4000
## theta[40]
               1.006
                        480
## theta[41]
               1.005
                        610
## theta[42]
               1.005
                        540
## theta[43]
               1.004
                        680
## theta[44]
               1.004
                        830
               1.001
## theta[45]
                       2600
## theta[46]
               1.001
                      2800
```

```
## theta[47]
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                      3700
## theta[48]
               1.002
                      2400
## theta[49]
               1.008
                        320
## theta[50]
               1.002
                      2200
## theta[51]
               1.001
                      2800
## theta[52]
               1.001
                      3700
## theta[53]
               1.001
                      3100
## theta[54]
               1.001
                      4000
## theta[55]
               1.002
                      2100
## theta[56]
               1.009
                        310
## theta[57]
               1.001
                      3000
## theta[58]
               1.012
                        370
## theta[59]
               1.001
                      4000
## theta[60]
               1.001
                      4000
## theta[61]
               1.005
                        580
## theta[62]
               1.005
                        600
## theta[63]
               1.001
                      4000
## theta[64]
               1.001
                      4000
## theta[65]
               1.002
                      2000
## theta[66]
               1.002
                      2000
## theta[67]
               1.001
                      4000
## theta[68]
               1.004
                        850
## theta[69]
               1.006
                        590
## theta[70]
               1.002
                      1800
## theta[71]
               1.001
                      3700
## theta[72]
               1.008
                        320
## theta[73]
               1.005
                        570
## theta[74]
               1.001
                      4000
## theta[75]
               1.001
                      4000
## theta[76]
               1.007
                        900
## theta[77]
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                        680
## theta[78]
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                      1500
## theta[79]
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                        250
## theta[80]
               1.001
                      4000
## theta[81]
               1.002
                      2400
## theta[82]
               1.001
                      4000
## theta[83]
               1.008
                        370
## theta[84]
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                      1800
## theta[85]
               1.001
                      2600
## theta[86]
               1.001
                      4000
## theta[87]
               1.001
                      4000
## theta[88]
               1.002
                      2100
## theta[89]
               1.003
                      2300
## theta[90]
               1.001
                      4000
## theta[91]
               1.002
                      1400
## theta[92]
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                        650
## theta[93]
               1.002
                      1300
                      4000
## theta[94]
               1.001
## theta[95]
               1.010
                        280
## theta[96]
               1.003
                      1600
## theta[97]
               1.001
                      4000
## theta[98]
               1.001
                      3100
## theta[99]
               1.002
                      1700
## theta[100] 1.007
                        380
```

```
## theta[101] 1.003 1100
## theta[102] 1.001
                     3000
## theta[103] 1.002
                     1600
## theta[104] 1.001
                     4000
## theta[105] 1.002
                     1800
## theta[106] 1.002
                     1300
## theta[107] 1.003
                     1000
## theta[108] 1.005
                     1600
## theta[109] 1.001
                     3600
## theta[110] 1.001
                     4000
## theta[111] 1.004
                       630
## theta[112] 1.006
                       430
## theta[113] 1.001
                     4000
## theta[114] 1.002
                     2100
## theta[115] 1.002
                     2400
## theta[116] 1.007
                       410
## theta[117] 1.014
                       200
## theta[118] 1.001
                     4000
## theta[119] 1.001
                     4000
## theta[120] 1.007
                       420
                     2700
## theta[121] 1.001
## theta[122] 1.002
                     1400
## theta[123] 1.001
                     3300
## theta[124] 1.001
                     2800
## theta[125] 1.001
                     4000
## theta[126] 1.004
                      810
## theta[127] 1.003
                      870
## theta[128] 1.002
                     2000
## theta[129] 1.001
                     4000
## theta[130] 1.003
                     1000
## theta[131] 1.001
                     4000
## theta[132] 1.002
                     1400
## theta[133] 1.001
                     4000
## theta[134] 1.004
                      630
## theta[135] 1.003
                     1200
## theta[136] 1.001
                     4000
## theta[137] 1.002
                     2000
## theta[138] 1.003
                     1200
## theta[139] 1.002
                     1400
## theta[140] 1.002
                     1300
## theta[141] 1.001
                     4000
## theta[142] 1.001
                     4000
## theta[143] 1.002
                     1700
## theta[144] 1.001
                     2700
## theta[145] 1.002
                     2200
## theta[146] 1.001
                     4000
## theta[147] 1.002
                     2300
## theta[148] 1.013
                       200
## theta[149] 1.004
                       700
## theta[150] 1.015
                       190
## theta[151] 1.001
                     4000
## theta[152] 1.002
                     2300
## theta[153] 1.002
                     2000
## theta[154] 1.004
                      830
```

```
## theta[155] 1.002
## theta[156] 1.001
                     3100
                      2800
## theta[157] 1.001
## theta[158] 1.001
                     4000
## theta[159] 1.001
                      4000
## theta[160] 1.004
                       650
## theta[161] 1.002
                      1500
## theta[162] 1.004
                      770
## theta[163] 1.001
                      3500
## theta[164] 1.004
                       650
## theta[165] 1.015
                       210
## theta[166] 1.003
                      1200
## theta[167] 1.004
                      700
## theta[168] 1.004
                       640
## theta[169] 1.004
                       860
## theta[170] 1.006
                      570
## theta[171] 1.002
                     1600
## theta[172] 1.001
                      4000
## theta[173] 1.001
                     4000
## theta[174] 1.001
                      4000
## theta[175] 1.002
                      1500
## theta[176] 1.001
                     4000
## theta[177] 1.001
                      4000
## theta[178] 1.001
                      3100
## theta[179] 1.001
                     3600
## theta[180] 1.001
                      2900
## theta[181] 1.003
                     1200
## theta[182] 1.001
                      3300
## theta[183] 1.001
                     4000
## theta[184] 1.002
                     2100
## theta[185] 1.002
                      4000
## theta[186] 1.002
                     4000
## theta[187] 1.003
                       950
## theta[188] 1.001
                     4000
## theta[189] 1.004
                      1700
## theta[190] 1.004
                      680
## theta[191] 1.001
                      3900
## theta[192] 1.003
                      1000
## theta[193] 1.005
                       610
## theta[194] 1.005
                       600
## theta[195] 1.002
                     1300
## theta[196] 1.007
                      380
## theta[197] 1.002
                     1900
## theta[198] 1.001
                     4000
## theta[199] 1.003
                      1000
## theta[200] 1.001
                      4000
## theta[201] 1.006
                       450
## theta[202] 1.006
                       480
## theta[203] 1.001
                     4000
## theta[204] 1.001
                      2600
## theta[205] 1.001
                      4000
## theta[206] 1.001
                     4000
## theta[207] 1.001
                     4000
## theta[208] 1.002
                     1700
```

```
## theta[209] 1.001
                     3500
## theta[210] 1.007
                      360
## theta[211] 1.004
                       730
## theta[212] 1.001
                     3400
## theta[213] 1.001
                     2900
## theta[214] 1.001
                     2900
## theta[215] 1.002
                     2300
## theta[216] 1.003
                     1000
## theta[217] 1.010
                       270
## theta[218] 1.001
                     4000
## theta[219] 1.001
                     4000
## theta[220] 1.002
                     1300
## theta[221] 1.001
                     4000
## theta[222] 1.002
                     2100
## theta[223] 1.003
                     1300
## theta[224] 1.008
                       410
## theta[225] 1.003
                     1500
## theta[226] 1.001
                     4000
## theta[227] 1.004
                      770
## theta[228] 1.003
                      980
## theta[229] 1.001
                     4000
## theta[230] 1.001
                     4000
## theta[231] 1.011
                       280
## theta[232] 1.002
                     2100
## theta[233] 1.001
                     4000
## theta[234] 1.002
                     1800
## theta[235] 1.001
                     3000
## theta[236] 1.001
                     4000
## theta[237] 1.002
                     2300
## theta[238] 1.002
                     2400
## theta[239] 1.001
                     2900
## theta[240] 1.001
                     4000
## theta[241] 1.004
                      720
## theta[242] 1.002
                     2300
## theta[243] 1.002
                     2400
## theta[244] 1.001
                     3000
## theta[245] 1.002
                     1500
## theta[246] 1.002
                     1900
## theta[247] 1.001
                     4000
## theta[248] 1.002
                     1800
## theta[249] 1.009
                      330
## theta[250] 1.001
                     2900
## theta[251] 1.008
                       410
## theta[252] 1.001
                     4000
## theta[253] 1.001
                     4000
## theta[254] 1.002
                     2300
## theta[255] 1.002
                     2300
## theta[256] 1.001
                     4000
## theta[257] 1.007
                      410
## theta[258] 1.002
                     2200
## theta[259] 1.001
                     4000
## theta[260] 1.001
                     2700
## theta[261] 1.003
                     1200
## theta[262] 1.002 1600
```

```
## theta[263] 1.001
                     4000
## theta[264] 1.004
                       660
## theta[265] 1.002
                      2000
## theta[266] 1.002
                     4000
## theta[267] 1.004
                      830
## theta[268] 1.001
                     3100
## theta[269] 1.001
                      3900
## theta[270] 1.002
                     2300
## theta[271] 1.001
                      4000
## theta[272] 1.001
                      4000
## theta[273] 1.002
                     1400
## theta[274] 1.002
                      2000
## theta[275] 1.005
                      3400
## theta[276] 1.001
                      4000
## theta[277] 1.001
                      4000
## theta[278] 1.007
                       380
## theta[279] 1.001
                      2900
## theta[280] 1.002
                      1300
## theta[281] 1.001
                     4000
## theta[282] 1.006
                       480
## theta[283] 1.001
                      4000
## theta[284] 1.001
                      4000
## theta[285] 1.001
                      4000
## theta[286] 1.004
                       720
## theta[287] 1.001
                     4000
## theta[288] 1.002
                     2300
## theta[289] 1.001
                     4000
## theta[290] 1.001
                      2700
## theta[291] 1.001
                     3700
## theta[292] 1.001
                      4000
## theta[293] 1.002
                      2400
## theta[294] 1.004
                      840
## theta[295] 1.004
                       710
## theta[296] 1.005
                      570
## theta[297] 1.004
                      790
## theta[298] 1.001
                     4000
## theta[299] 1.001
                      4000
## theta[300] 1.001
                     3900
## theta[301] 1.002
                      1700
## theta[302] 1.001
                     2900
## theta[303] 1.001
                     3000
## theta[304] 1.002
                     2500
## theta[305] 1.003
                       840
## theta[306] 1.001
                      4000
## theta[307] 1.002
                      2200
## theta[308] 1.001
                      4000
## theta[309] 1.001
                     4000
## theta[310] 1.001
                     4000
## theta[311] 1.002
                     1300
## theta[312] 1.002
                     3100
## theta[313] 1.001
                     4000
## theta[314] 1.002
                     1600
## theta[315] 1.002
                     1500
## theta[316] 1.001
                     2900
```

```
## theta[317] 1.001
                     4000
## theta[318] 1.001
                     4000
                      1500
## theta[319] 1.004
## theta[320] 1.001
                     4000
## theta[321] 1.003
                      1200
## theta[322] 1.001
                     4000
## theta[323] 1.005
                       600
## theta[324] 1.001
                     4000
## theta[325] 1.001
                      4000
## theta[326] 1.002
                      1700
## theta[327] 1.003
                     1200
## theta[328] 1.002
                     1500
## theta[329] 1.001
                     4000
## theta[330] 1.002
                      2400
## theta[331] 1.002
                     2100
## theta[332] 1.001
                      4000
## theta[333] 1.001
                      2700
## theta[334] 1.006
                      500
## theta[335] 1.002
                     1300
## theta[336] 1.001
                      4000
## theta[337] 1.001
                      4000
## theta[338] 1.001
                     4000
## theta[339] 1.001
                      4000
## theta[340] 1.001
                      3400
## theta[341] 1.001
                     4000
## theta[342] 1.004
                      730
## theta[343] 1.001
                      2700
## theta[344] 1.001
                     4000
## theta[345] 1.005
                       590
## theta[346] 1.002
                     1300
## theta[347] 1.001
                      4000
## theta[348] 1.001
                      3200
## theta[349] 1.001
                      3200
## theta[350] 1.005
                      870
## theta[351] 1.009
                       300
## theta[352] 1.003
                      1200
## theta[353] 1.007
                       380
## theta[354] 1.003
                       920
## theta[355] 1.001
                      4000
## theta[356] 1.002
                      1700
## theta[357] 1.002
                     1500
## theta[358] 1.007
                       440
## theta[359] 1.001
                     4000
## theta[360] 1.002
                      1500
## theta[361] 1.001
                      3100
## theta[362] 1.002
                      2300
## theta[363] 1.001
                     4000
## theta[364] 1.001
                      4000
## theta[365] 1.002
                     1800
## theta[366] 1.001
                      4000
## theta[367] 1.005
                      540
## theta[368] 1.003
                     1100
## theta[369] 1.001
                     3700
## theta[370] 1.002
                     2100
```

```
## theta[371] 1.002
## theta[372] 1.002
                     1400
## theta[373] 1.003
                      980
## theta[374] 1.001
                     2600
## theta[375] 1.001
                     3300
## theta[376] 1.001
                     4000
## theta[377] 1.001
                     4000
## theta[378] 1.002
                     1600
## theta[379] 1.001
                     4000
## theta[380] 1.002
                     1300
## theta[381] 1.002
                     2100
## theta[382] 1.001
                     4000
## theta[383] 1.003
                     1100
## theta[384] 1.001
                     3700
## theta[385] 1.003
                      950
## theta[386] 1.001
                     4000
## theta[387] 1.002
                     2200
## theta[388] 1.002
                     1900
## theta[389] 1.003
                      860
## theta[390] 1.001
                     4000
## theta[391] 1.001
                     2900
## theta[392] 1.003
## theta[393] 1.001
                     4000
## theta[394] 1.002
                     1900
## theta[395] 1.001
                     4000
## theta[396] 1.006
                      450
## theta[397] 1.005
                      580
## theta[398] 1.001
                     2900
## theta[399] 1.003
                     1500
## theta[400] 1.001
                     4000
## theta[401] 1.001
                     3800
## theta[402] 1.002
                     2300
## theta[403] 1.002
                     1400
## theta[404] 1.001
                     4000
## theta[405] 1.001
                     4000
## theta[406] 1.003
                     1000
## theta[407] 1.001
                     2700
## theta[408] 1.001
                     4000
## theta[409] 1.001
                     4000
## theta[410] 1.002
                     1500
## theta[411] 1.001
                     4000
## theta[412] 1.001
                     4000
## theta[413] 1.015
                      180
                     1400
## theta[414] 1.002
## theta[415] 1.002
                     2200
## theta[416] 1.001
                     3700
## theta[417] 1.002
                     1400
## theta[418] 1.001
                     2700
## theta[419] 1.001
                     4000
## theta[420] 1.002
                     1400
## theta[421] 1.001
                     4000
## theta[422] 1.002
                     2500
## theta[423] 1.003
                     1300
## theta[424] 1.002
                     1300
```

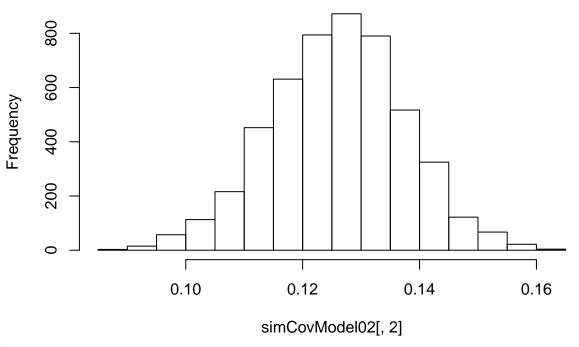
```
## theta[425] 1.001
## theta[426] 1.007
                      390
## theta[427] 1.001
                     4000
## theta[428] 1.003
                      940
## theta[429] 1.005
                      780
## theta[430] 1.001
                     3100
## theta[431] 1.003
                       870
## theta[432] 1.003
                     1200
## theta[433] 1.001
                     3500
## theta[434] 1.001
                     4000
## theta[435] 1.004
                      780
## theta[436] 1.002
                     1500
## theta[437] 1.004
                      760
## theta[438] 1.001
                     4000
## theta[439] 1.001
                     3100
## theta[440] 1.001
                     2800
## theta[441] 1.002
                     1700
## theta[442] 1.007
                       680
## theta[443] 1.001
                     2900
## theta[444] 1.002
                     2500
## theta[445] 1.002
                     2400
## theta[446] 1.003
## theta[447] 1.001
                     4000
## theta[448] 1.001
                     4000
## theta[449] 1.001
                     4000
## theta[450] 1.001
                     3000
## theta[451] 1.001
                     2600
## theta[452] 1.002
                     1400
## theta[453] 1.002
                     2100
## theta[454] 1.003
                     1200
## theta[455] 1.001
                     4000
## theta[456] 1.001
                     4000
## theta[457] 1.002
                     2400
## theta[458] 1.004
                      670
## theta[459] 1.003
                     1100
## theta[460] 1.001
                     4000
## theta[461] 1.001
                     3500
## theta[462] 1.001
                     2900
## theta[463] 1.001
                     2500
## theta[464] 1.002
                     1900
## theta[465] 1.002
                     2100
## theta[466] 1.001
                     4000
## theta[467] 1.002
                     1500
## theta[468] 1.002
                     2000
## theta[469] 1.002
                     2100
## theta[470] 1.001
                     2700
## theta[471] 1.001
                     4000
## theta[472] 1.001
                     3100
## theta[473] 1.002
                     2100
## theta[474] 1.001
                     4000
## theta[475] 1.001
                     3200
## theta[476] 1.002
                     2400
## theta[477] 1.001
                     3200
## theta[478] 1.001
                     3200
```

```
## theta[479] 1.001
                     4000
## theta[480] 1.001
                     4000
                      2800
## theta[481] 1.001
## theta[482] 1.002
                     1700
## theta[483] 1.002
                      2100
## theta[484] 1.002
                     1900
## theta[485] 1.001
                     4000
## theta[486] 1.001
                      4000
## theta[487] 1.003
                       850
## theta[488] 1.003
                       880
## theta[489] 1.001
                      3900
## theta[490] 1.001
                      4000
## theta[491] 1.003
                      890
## theta[492] 1.002
                      1500
## theta[493] 1.008
                      350
## theta[494] 1.003
                      1200
## theta[495] 1.002
                      1900
## theta[496] 1.001
                      4000
## theta[497] 1.007
                       410
## theta[498] 1.005
                      840
## theta[499] 1.008
                       420
## theta[500] 1.007
## theta[501] 1.001
                      3400
## theta[502] 1.001
                      4000
## theta[503] 1.004
                      970
## theta[504] 1.005
                       550
## theta[505] 1.003
                      1300
## theta[506] 1.019
                       140
## theta[507] 1.002
                     2100
## theta[508] 1.002
                      1700
## theta[509] 1.002
                      2200
## theta[510] 1.004
                      790
## theta[511] 1.001
                      2600
## theta[512] 1.003
                     1100
## theta[513] 1.001
                      2800
## theta[514] 1.003
                      980
## theta[515] 1.002
                      1700
## theta[516] 1.002
                     2100
## theta[517] 1.003
                      1200
## theta[518] 1.001
                     4000
## theta[519] 1.009
                      310
## theta[520] 1.002
                     1900
## theta[521] 1.002
                      4000
## theta[522] 1.004
                       970
## theta[523] 1.004
                       790
## theta[524] 1.001
                      3700
## theta[525] 1.002
                      1700
## theta[526] 1.004
                      1100
## theta[527] 1.001
                     4000
## theta[528] 1.001
                      4000
## theta[529] 1.003
                      1100
## theta[530] 1.005
                      500
## theta[531] 1.004
                      830
## theta[532] 1.004
                      740
```

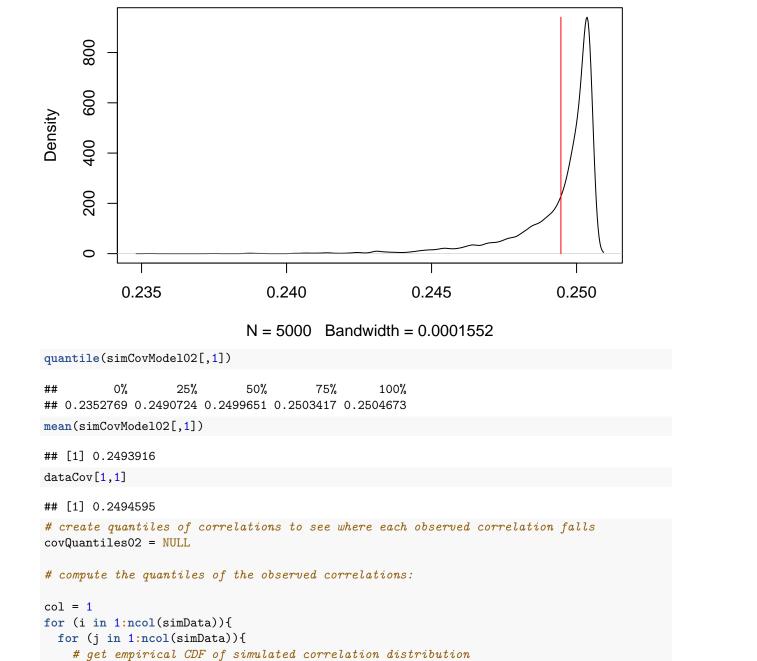
```
## theta[533] 1.001 4000
## theta[534] 1.005
## theta[535] 1.001 4000
## theta[536] 1.001 2500
## deviance
             1.001 4000
##
## For each parameter, n.eff is a crude measure of effective sample size,
## and Rhat is the potential scale reduction factor (at convergence, Rhat=1).
## DIC info (using the rule, pD = var(deviance)/2)
## pD = 623.9 and DIC = 8536.0
## DIC is an estimate of expected predictive error (lower deviance is better).
As Model 2 has a different posterior distribution than Model 1 (even only slightly), Model 2 needs its own
goodness of fit statistics:
# list number of simulated data sets
nSimulatedDataSets = 5000
# create one large matrix of posterior values
model02.Posterior.all = model02.r2jags$BUGSoutput$sims.matrix
dim(model02.Posterior.all)
## [1] 4000 597
# determine columns of posterior that go into each model matrix
aCols = 1:20
bCols = grep(x = colnames(model02.Posterior.all), pattern = "b\\[")
# save simulated covariances:
simCovModel02 = matrix(data = NA, nrow = nSimulatedDataSets, ncol = nItems*nItems)
# loop through data sets (can be sped up with functions and lapply)
pb = txtProgressBar()
sim = 1
for (sim in 1:nSimulatedDataSets){
  # draw sample from one iteration of posterior chain
  iternum = sample(x = 1:nrow(model02.Posterior.all), size = 1, replace = TRUE)
  # get parameters for that sample: put into factor model matrices for easier generation of data
  a = matrix(data = model02.Posterior.all[iternum, aCols], ncol = 1)
  b = matrix(data = model02.Posterior.all[iternum, bCols], ncol = 1)
  mu = -1*a*b
  # generate sample of thetas from theta distribution
  theta = matrix(data = rnorm(n = nrow(FSdata), mean = 0, sd = 1), nrow = nrow(FSdata), ncol = 1)
  # calculate predicted probits:
  probits = matrix(data = 1, nrow = nrow(FSdata), ncol = 1) %*% t(mu) + theta %*% t(a)
  simData = probits
  i=1
  for (i in 1:ncol(probits)){
    simData[,i] = rbinom(n = nrow(probits), size = 1, prob = pnorm(q = probits[,i]) )
```

```
# calculate the value of SRMR using simulated data's covariance matrix and observed covariance matrix
  simCov = cov(simData)
  simCovModel02[sim,] = c(cov(simData))
  setTxtProgressBar(pb = pb, value = sim/nSimulatedDataSets)
}
close(pb)
# label values of simCor to ensure we have the right comparison
covNames = NULL
for (i in 1:ncol(simData)){
  for (j in 1:ncol(simData)){
    covNames = c(covNames, paste0("cov", i, "." , j))
  }
colnames(simCovModel02) = covNames
# show how one correlation compares to distribution of simulated correlations
dataCov = cov(FSdata)
hist(simCovModel02[,2])
```

Histogram of simCovModel02[, 2]



density.default(x = simCovModel02[, 1])



covQuantiles02[which(covQuantiles02[,10] > .975 | covQuantiles02[,10] < .025),]</pre>

covQuantiles02 = rbind(covQuantiles02, c(i, j, summary(covEcdf), dataCov[i,j], covEcdf(dataCov[i,j]

covEcdf = ecdf(simCovModel02[,col])

colnames(covQuantiles02)[1:2] = c("Item 1", "Item 2")
colnames(covQuantiles02)[9:10] = c("ObsCor", "CorPctile")

col = col + 1

} }

```
Item 1 Item 2
                                        1st Qu.
                                                     Median
                                Min.
    [1,]
                         0.088066676 0.11736295 0.12597991 0.12578243
##
                      2
              1
##
    [2,]
                         0.075512624 0.11104757 0.12022249 0.12009010
##
    [3,]
                         0.035423351 0.06780060 0.07692844 0.07698263
              1
##
    [4,]
              2
                      1
                         0.088066676 0.11736295 0.12597991 0.12578243
##
                         0.083376343 0.12141163 0.13012101 0.12980650
    [5,]
              2
                         0.031583903 0.07414911 0.08341470 0.08322945
    [6.]
              2
##
    [7,]
              3
                      1
                         0.075512624 0.11104757 0.12022249 0.12009010
##
    [8,]
              3
                     2
                         0.083376343 0.12141163 0.13012101 0.12980650
##
   [9,]
              3
                         0.033644860 0.07028264 0.07911494 0.07917246
## [10,]
              3
                         0.087069326 0.11777096 0.12568699 0.12588767
## [11,]
                         0.014848654 0.04299763 0.05099038 0.05104881
              4
## [12,]
              4
                     9
                         0.008285674 0.03579648 0.04438555 0.04419611
                         0.040078812 0.08148713 0.09036476 0.09013652
## [13,]
              4
## [14,]
                         0.057127912 0.08765605 0.09644651 0.09632372
              4
                    11
## [15,]
              4
                    13
                         0.039998605 0.07008474 0.07793800 0.07792262
## [16,]
              4
                    17
                         0.054439252 0.08900997 0.09764437 0.09754506
## [17,]
                         0.044556423 0.07616387 0.08423420 0.08428038
                         0.049183987 0.08485319 0.09377877 0.09344727
## [18,]
              4
                    20
## [19,]
              5
                     1
                         0.035423351 0.06780060 0.07692844 0.07698263
## [20,]
              5
                         0.031583903 0.07414911 0.08341470 0.08322945
              5
                         0.033644860 0.07028264 0.07911494 0.07917246
## [21,]
## [22,]
                     9 -0.004620589 0.02958572 0.03832822 0.03827353
              5
                         0.027866509 0.06002232 0.06858000 0.06863233
## [23.]
              6
                    12
## [24,]
              6
                         0.037097224 0.06568036 0.07430255 0.07458696
## [25,]
              6
                         0.029850746 0.06327068 0.07210908 0.07211957
## [26,]
              7
                         0.021558097 0.05084042 0.05845306 0.05840774
              7
## [27,]
                    15
                         0.083386804 0.11588611 0.12466523 0.12456944
              7
## [28,]
                         0.078581392 0.11063607 0.11973427 0.11955825
## [29,]
              8
                         0.014848654 0.04299763 0.05099038 0.05104881
## [30,]
              8
                     7
                         0.021558097 0.05084042 0.05845306 0.05840774
## [31,]
              9
                         0.008285674 0.03579648 0.04438555 0.04419611
## [32,]
              9
                      5 -0.004620589 0.02958572 0.03832822 0.03827353
## [33,]
                         0.010116474 0.03887397 0.04713872 0.04737196
              9
## [34,]
              9
                         0.004798438 0.03825586 0.04658251 0.04672906
## [35,]
                         0.040078812 0.08148713 0.09036476 0.09013652
             10
## [36,]
             10
                         0.087421537 0.11986330 0.12813503 0.12811178
## [37,]
                         0.088701353 0.12303756 0.13199888 0.13185718
             10
                    20
## [38,]
                     4
                         0.057127912 0.08765605 0.09644651 0.09632372
             11
## [39,]
                         0.087421537 \ 0.11986330 \ 0.12813503 \ 0.12811178
             11
## [40,]
                         0.086333519 0.13050635 0.13851653 0.13849718
             11
## [41,]
                         0.082242991 0.11751552 0.12590494 0.12584491
             11
## [42.]
             11
                         0.091002929 0.12490149 0.13336414 0.13308983
## [43,]
             12
                         0.027866509 0.06002232 0.06858000 0.06863233
## [44,]
             12
                         0.037100711 0.07137327 0.08029014 0.08028586
## [45,]
             12
                         0.040099735 0.06905775 0.07805482 0.07798313
                    16
## [46,]
             13
                     4
                         0.039998605 0.07008474 0.07793800 0.07792262
## [47,]
                         0.037097224 0.06568036 0.07430255 0.07458696
             14
## [48,]
             14
                         0.010116474 0.03887397 0.04713872 0.04737196
## [49,]
             14
                    12
                         0.037100711 0.07137327 0.08029014 0.08028586
## [50,]
                         0.039060538 0.07573842 0.08497873 0.08485116
             14
                    16
## [51,]
             15
                     7
                         0.083386804 0.11588611 0.12466523 0.12456944
## [52,]
                     6
                         0.029850746 0.06327068 0.07210908 0.07211957
             16
## [53,]
             16
                     9 0.004798438 0.03825586 0.04658251 0.04672906
```

```
## [54,]
                        0.040099735 0.06905775 0.07805482 0.07798313
             16
## [55.]
                        0.039060538 0.07573842 0.08497873 0.08485116
             16
                        0.054439252 0.08900997 0.09764437 0.09754506
## [56,]
             17
## [57,]
             17
                        0.086333519 0.13050635 0.13851653 0.13849718
## [58,]
             17
                        0.089137258 0.12072116 0.12927884 0.12913521
## [59,]
                        0.099850049 0.13126569 0.13987830 0.13974624
             17
## [60.]
                        0.082242991 0.11751552 0.12590494 0.12584491
             18
## [61,]
             18
                    17
                        0.089137258 0.12072116 0.12927884 0.12913521
## [62.]
             19
                        0.044556423 0.07616387 0.08423420 0.08428038
## [63,]
             19
                        0.078581392 0.11063607 0.11973427 0.11955825
## [64,]
             20
                     3
                        0.087069326 0.11777096 0.12568699 0.12588767
##
  [65,]
             20
                        0.049183987 0.08485319 0.09377877 0.09344727
##
   [66,]
             20
                        0.088701353 0.12303756 0.13199888 0.13185718
                    10
##
   [67,]
             20
                        0.091002929 0.12490149 0.13336414 0.13308983
   [68,]
                        0.099850049 0.13126569 0.13987830 0.13974624
##
             20
##
            3rd Qu.
                                    ObsCor CorPctile
                           Max.
##
    [1,] 0.13423420 0.16492886 0.19196192
                                              1.0000
    [2,] 0.12897894 0.16204492 0.18363789
                                              1.0000
    [3,] 0.08620798 0.11885200 0.10948180
                                              0.9968
##
    [4,] 0.13423420 0.16492886 0.19196192
                                              1.0000
##
    [5,] 0.13830904 0.16982145 0.20165992
                                              1.0000
   [6,] 0.09259485 0.12586135 0.11506138
                                              0.9948
##
   [7,] 0.12897894 0.16204492 0.18363789
                                              1.0000
    [8,] 0.13830904 0.16982145 0.20165992
                                              1.0000
    [9,] 0.08813816 0.12690752 0.10435207
                                              0.9800
## [10,] 0.13430743 0.16649812 0.10255266
                                              0.0186
  [11,] 0.05908948 0.09645697 0.10332334
                                              1.0000
  [12,] 0.05261543 0.09106570 0.02016669
                                              0.0194
## [13,] 0.09879865 0.13443995 0.12479077
                                              0.9986
## [14,] 0.10513234 0.14147022 0.14933045
                                              1.0000
## [15,] 0.08586187 0.11556702 0.10201562
                                              0.9884
  [16,] 0.10625436 0.14373692 0.13365881
                                              0.9988
  [17,] 0.09251726 0.12799554 0.11094295
                                              0.9920
## [18,] 0.10196419 0.13596736 0.13107128
                                              0.9998
## [19,] 0.08620798 0.11885200 0.10948180
                                              0.9968
## [20,] 0.09259485 0.12586135 0.11506138
                                              0.9948
## [21,] 0.08813816 0.12690752 0.10435207
                                              0.9800
## [22,] 0.04680569 0.07874180 0.07171502
                                              0.9970
## [23,] 0.07722137 0.11104059 0.10325708
                                              0.9988
## [24,] 0.08317408 0.11789650 0.10919933
                                              0.9978
## [25,] 0.08085856 0.10981308 0.10382899
                                              0.9982
## [26,] 0.06577277 0.09591296 0.07831636
                                              0.9798
## [27,] 0.13344434 0.16177640 0.16519738
                                              1.0000
## [28,] 0.12861626 0.16112777 0.14340912
                                              0.9782
## [29,] 0.05908948 0.09645697 0.10332334
                                              1.0000
## [30,] 0.06577277 0.09591296 0.07831636
                                              0.9798
## [31,] 0.05261543 0.09106570 0.02016669
                                              0.0194
## [32,] 0.04680569 0.07874180 0.07171502
                                              0.9970
## [33,] 0.05566153 0.09295578 0.07188938
                                              0.9818
## [34,] 0.05528839 0.08494909 0.07013879
                                              0.9766
## [35,] 0.09879865 0.13443995 0.12479077
                                              0.9986
## [36,] 0.13637537 0.16655391 0.16047566
                                              0.9984
## [37,] 0.14067862 0.17857442 0.16202399
                                              0.9966
## [38,] 0.10513234 0.14147022 0.14933045
                                              1.0000
```

```
## [39,] 0.13637537 0.16655391 0.16047566
                                             0.9984
## [40,] 0.14670107 0.17482215 0.17581253
                                             1.0000
## [41,] 0.13447221 0.17171154 0.15524480
                                             0.9970
## [42,] 0.14133334 0.17352490 0.17660762
                                             1.0000
## [43,] 0.07722137 0.11104059 0.10325708
                                             0.9988
                                             0.9986
## [44,] 0.08918608 0.12424327 0.11531246
## [45,] 0.08665870 0.12482913 0.11384084
                                             0.9988
## [46,] 0.08586187 0.11556702 0.10201562
                                             0.9884
## [47,] 0.08317408 0.11789650 0.10919933
                                             0.9978
## [48,] 0.05566153 0.09295578 0.07188938
                                             0.9818
## [49,] 0.08918608 0.12424327 0.11531246
                                             0.9986
## [50,] 0.09380754 0.12535221 0.12652044
                                             1.0000
## [51,] 0.13344434 0.16177640 0.16519738
                                             1.0000
## [52,] 0.08085856 0.10981308 0.10382899
                                             0.9982
## [53,] 0.05528839 0.08494909 0.07013879
                                             0.9766
## [54,] 0.08665870 0.12482913 0.11384084
                                             0.9988
## [55,] 0.09380754 0.12535221 0.12652044
                                             1.0000
## [56,] 0.10625436 0.14373692 0.13365881
                                             0.9988
## [57,] 0.14670107 0.17482215 0.17581253
                                             1.0000
## [58,] 0.13783303 0.17275073 0.15580974
                                             0.9928
## [59,] 0.14846997 0.17733994 0.17776538
                                             1.0000
## [60,] 0.13447221 0.17171154 0.15524480
                                             0.9970
## [61,] 0.13783303 0.17275073 0.15580974
                                             0.9928
## [62,] 0.09251726 0.12799554 0.11094295
                                             0.9920
## [63,] 0.12861626 0.16112777 0.14340912
                                             0.9782
## [64,] 0.13430743 0.16649812 0.10255266
                                             0.0186
## [65,] 0.10196419 0.13596736 0.13107128
                                             0.9998
## [66,] 0.14067862 0.17857442 0.16202399
                                             0.9966
## [67,] 0.14133334 0.17352490 0.17660762
                                             1.0000
## [68,] 0.14846997 0.17733994 0.17776538
                                             1.0000
```

Estimation of the 3PNO Model

We can now estimate a 3PNO model to compare model fit with that of the 2PNO:

```
# marker item:
model03.function = function(){

# measurement model specification
  for (person in 1:N){
    for (item in 1:I){
        X[person, item] ~ dbern(c[item]+(1-c[item])*phi(a[item]*(theta[person]-b[item])))
    }
}

# prior distributions for the factor:
  for (person in 1:N){
        theta[person] ~ dnorm(0, 1)
    }

# prior distributions for the measurement model parameters
  for (item in 1:I){
        a[item] ~ dlnorm(a.mean.0, a.precision.0)
        b[item] ~ dnorm(b.mean.0, b.precision.0)
```

```
c[item] ~ dbeta(c.a.0, c.b.0)
    }
}
# specification of prior values for measurement model parameters:
a.mean.0 = 0
a.variance.0 = 100
a.precision.0 = 1 / a.variance.0
b.mean.0 = 0
b.variance.0 = 100
b.precision.0 = 1 / b.variance.0
c.a.0 = 1
c.b.0 = 1
# next, create data for JAGS to use:
model03.data = list(
 N = nrow(FSdata),
 X = FSdata
 I = nItems,
  a.mean.0 = a.mean.0,
  a.precision.0 = a.precision.0,
  b.mean.0 = b.mean.0,
  b.precision.0 = b.precision.0,
  c.a.0 = c.a.0,
  c.b.0 = c.b.0
model03.parameters = c("a", "theta", "b", "c")
# for reproducable analyses
model03.seed = 06042019+3
Here, we will use the R2jags jags.parallel() function, which will run somewhat faster (one chain per core):
model03.r2jags = jags.parallel(
  data = model03.data,
  parameters.to.save = model03.parameters,
  model.file = model03.function,
  n.chains = 4,
  n.iter = 2000,
  n.thin = 1,
  n.burnin = 1000,
  n.cluster = 4,
  jags.seed = model03.seed
model03.r2jags
## Inference for Bugs model at "model03.function", fit using jags,
## 4 chains, each with 2000 iterations (first 1000 discarded)
## n.sims = 4000 iterations saved
##
              mu.vect sd.vect
                                   2.5%
                                              25%
                                                       50%
                                                                75%
                                                                        97.5%
## a[1]
                 1.490 0.136
                                1.237
                                            1.394
                                                     1.485
                                                              1.580
                                                                        1.767
```

## a[2]	1.930	0.192	1.577	1.797	1.922	2.052	2.331
## a[3]	1.631	0.155	1.342	1.522	1.625	1.737	1.939
## a[4]	2.541	0.394	1.875	2.270	2.504	2.757	3.418
## a[5]	1.331	0.315	0.843	1.105	1.288	1.514	2.032
## a[6]	1.364	0.139	1.109	1.266	1.355	1.457	1.647
## a[7]	1.828	0.190	1.478	1.696	1.820	1.954	2.223
## a[8]	1.643	0.378	0.979	1.372	1.614	1.883	2.461
## a[9]	0.807	0.334	0.455	0.593	0.722	0.919	1.806
## a[10]	2.276	0.265	1.805	2.087	2.271	2.445	2.839
## a[11]	3.575	0.657	2.529	3.120	3.500	3.916	5.102
## a[12]	1.197	0.117	0.983	1.115	1.193	1.276	1.440
## a[13]	1.994	0.249	1.552	1.820	1.975	2.155	2.503
## a[14]	1.402	0.131	1.159	1.311	1.398	1.488	1.675
## a[15]	2.066	0.238	1.644	1.901	2.052	2.218	2.577
## a[16]	1.226	0.117	1.009	1.144	1.223	1.303	1.468
## a[17]	2.778	0.464	2.081	2.460	2.713	3.018	3.878
## a[18]	1.624	0.162	1.327	1.511	1.615	1.730	1.952
## a[19]	2.705	0.360	2.079	2.463	2.670	2.919	3.499
## a[20]	2.720	0.416	2.013	2.429	2.675	2.966	3.669
## b[1]	0.020	0.067	-0.115	-0.026	0.021	0.065	0.151
## b[2]	-0.094	0.064	-0.216	-0.138	-0.095	-0.051	0.036
## b[3]	0.078	0.067	-0.050	0.032	0.077	0.124	0.207
## b[4]	0.367	0.068	0.239	0.322	0.365	0.409	0.510
## b[5]	0.242	0.159	-0.104	0.144	0.254	0.352	0.527
## b[6]	-0.985	0.099	-1.195	-1.048	-0.984	-0.922	-0.789
## b[7]	0.409	0.062	0.293	0.368	0.406	0.449	0.537
## b[8]	-0.043	0.188	-0.484	-0.140	-0.019	0.084	0.249
## b[9]	-0.096	0.427	-0.890	-0.437	-0.074	0.245	0.642
## b[10]	0.466	0.059	0.355	0.425	0.465	0.505	0.583
## b[11]	0.317	0.061	0.198	0.278	0.318	0.359	0.433
## b[12]	-0.726	0.097	-0.917	-0.792	-0.729	-0.660	-0.536
## b[13]	0.703	0.064	0.583	0.659	0.701	0.745	0.834
## b[14]	-0.655	0.084	-0.818	-0.711	-0.656	-0.600	-0.489
## b[15]	0.290	0.063	0.166	0.249	0.289	0.331	0.414
## b[16]	-0.585	0.089	-0.769	-0.643	-0.585	-0.524	-0.414
## b[17]	0.351	0.064	0.229	0.307	0.349	0.394	0.479
## b[18]	0.217	0.064	0.093	0.174	0.215	0.260	0.346
## b[19]	0.638	0.058	0.528	0.599	0.637	0.676	0.753
## b[20]	0.445	0.061	0.329	0.405	0.444	0.486	0.571
## c[1]	0.011	0.011	0.000	0.003	0.008	0.016	0.043
## c[2]	0.013	0.013	0.000	0.004	0.010	0.018	0.047
## c[3]	0.009	0.009	0.000	0.003	0.006	0.013	0.032
## c[4]	0.194	0.028	0.140	0.176	0.194	0.212	0.250
## c[5]	0.245	0.061	0.113	0.207	0.249	0.288	0.352
## c[6]	0.032	0.029	0.001	0.010	0.024	0.046	0.109
## c[7]	0.008	0.007	0.000	0.002	0.006	0.011	0.028
## c[8]	0.444	0.066	0.294	0.409	0.452	0.489	0.551
## c[9]	0.249	0.133	0.016	0.140	0.257	0.356	0.482
## c[10]	0.011	0.008	0.001	0.005	0.009	0.015	0.030
## c[11]	0.067	0.019	0.032	0.054	0.066	0.079	0.109
## c[12]	0.034	0.032	0.001	0.010	0.024	0.048	0.119
## c[13]	0.005	0.004	0.000	0.001	0.003	0.006	0.016
## c[14]	0.022	0.021	0.001	0.007	0.016	0.031	0.081
## c[15]	0.023	0.014	0.004	0.013	0.020	0.030	0.056

	c[16]	0.025	0.022	0.001	0.008	0.019	0.035	0.081
	c[17]	0.026	0.016	0.003	0.014	0.023	0.036	0.066
	c[18]	0.010	0.010	0.000	0.003	0.007	0.014	0.038
	c[19]	0.005	0.005	0.000	0.001	0.003	0.006	0.017
	c[20]	0.015	0.011	0.001	0.007	0.013	0.022	0.043
	theta[1]	0.411	0.162	0.094	0.305	0.412	0.521	0.729
	theta[2]	0.997	0.229	0.594	0.845	0.982	1.138	1.512
	theta[3]	0.036	0.194	-0.361	-0.087	0.050	0.172	0.374
##	theta[4]	0.475	0.167	0.148	0.365	0.475	0.586	0.795
##	theta[5]	-0.945	0.374	-1.753	-1.180	-0.921	-0.682	-0.293
##	theta[6]	-0.836	0.361	-1.610	-1.057	-0.804	-0.589	-0.224
##	theta[7]	-1.586	0.542	-2.783	-1.914	-1.533	-1.194	-0.677
##	theta[8]	-1.732	0.552	-2.947	-2.076	-1.681	-1.341	-0.803
##	theta[9]	-0.925	0.347	-1.695	-1.134	-0.895	-0.684	-0.327
##	theta[10]	-1.123	0.432	-2.054	-1.388	-1.072	-0.825	-0.399
##	theta[11]	0.242	0.167	-0.099	0.130	0.244	0.357	0.560
##	theta[12]	0.490	0.165	0.169	0.377	0.489	0.601	0.814
##	theta[13]	-0.432	0.329	-1.151	-0.635	-0.395	-0.193	0.100
##	theta[14]	-1.296	0.454	-2.298	-1.566	-1.271	-0.979	-0.517
##	theta[15]	-0.898	0.359	-1.697	-1.123	-0.866	-0.648	-0.275
##	theta[16]	-0.622	0.351	-1.380	-0.853	-0.592	-0.354	-0.041
##	theta[17]	-0.813	0.422	-1.791	-1.020	-0.758	-0.532	-0.161
##	theta[18]	-0.972	0.366	-1.780	-1.194	-0.942	-0.722	-0.346
##	theta[19]	-0.710	0.305	-1.371	-0.905	-0.685	-0.495	-0.180
##	theta[20]	-1.738	0.565	-2.992	-2.078	-1.685	-1.341	-0.760
##	theta[21]	0.702	0.172	0.368	0.588	0.698	0.815	1.048
##	theta[22]	0.479	0.169	0.136	0.368	0.478	0.593	0.808
##	theta[23]	1.636	0.493	0.880	1.287	1.554	1.911	2.787
##	theta[24]	0.136	0.185	-0.273	0.024	0.152	0.262	0.461
##	theta[25]	0.266	0.175	-0.096	0.156	0.271	0.385	0.598
##	theta[26]	-1.634	0.528	-2.817	-1.961	-1.584	-1.261	-0.739
##	theta[27]	-0.706	0.310	-1.367	-0.902	-0.684	-0.492	-0.158
##	theta[28]	-1.740	0.534	-2.917	-2.060	-1.684	-1.367	-0.840
##	theta[29]	-0.638	0.305	-1.300	-0.835	-0.617	-0.420	-0.093
##	theta[30]	1.644	0.511	0.853	1.274	1.574	1.928	2.828
##	theta[31]	0.526	0.167	0.193	0.416	0.526	0.634	0.864
	theta[32]	1.628	0.490	0.869	1.272	1.557	1.909	2.797
	theta[33]	1.029	0.249	0.579	0.859	1.015	1.179	1.555
	theta[34]	0.479	0.156	0.175	0.373	0.481	0.584	0.786
	theta[35]	0.789	0.185	0.444	0.662	0.782	0.906	1.174
	theta[36]	0.237	0.163	-0.082	0.129	0.238	0.348	0.544
	theta[37]	-0.012	0.241	-0.587	-0.136	0.014	0.145	0.388
	theta[38]	0.170	0.177	-0.185	0.056	0.174	0.293	0.502
	theta[39]	0.830	0.196	0.472	0.693	0.817	0.954	1.238
	theta[40]	-0.674	0.306	-1.333	-0.873	-0.648	-0.465	-0.136
	theta[41]	-1.660	0.533	-2.829	-1.989	-1.603	-1.281	-0.769
	theta[42]	1.631	0.491	0.876	1.278	1.560	1.901	2.794
	theta[43]	1.018	0.238	0.598	0.851	1.003	1.164	1.559
	theta[44]	-1.018	0.377	-1.803	-1.248	-0.986	-0.756	-0.375
	theta[45]	0.859	0.200	0.496	0.715	0.853	0.986	1.279
	theta[46]	0.570	0.171	0.238	0.457	0.569	0.684	0.914
	theta[47]	-0.712	0.309	-1.403	-0.901	-0.696	-0.495	-0.170
	theta[48]	-0.270	0.310	-0.967	-0.457	-0.224	-0.051	0.222
##	theta[49]	-1.576	0.535	-2.708	-1.922	-1.539	-1.187	-0.657

	theta[50]	0.550	0.162	0.239	0.437	0.548	0.659	0.862
##	theta[51]	-1.698	0.536	-2.886	-2.038	-1.661	-1.310	-0.791
##	theta[52]	-0.300	0.224	-0.778	-0.438	-0.290	-0.145	0.106
##	theta[53]	-0.424	0.288	-1.082	-0.576	-0.388	-0.231	0.057
##	theta[54]	0.939	0.220	0.548	0.782	0.929	1.079	1.410
##	theta[55]	0.168	0.215	-0.289	0.041	0.187	0.318	0.526
##	theta[56]	1.644	0.499	0.890	1.285	1.565	1.920	2.821
##	theta[57]	1.137	0.279	0.674	0.943	1.110	1.299	1.770
##	theta[58]	-1.630	0.521	-2.780	-1.953	-1.582	-1.262	-0.735
##	theta[59]	-0.669	0.317	-1.337	-0.873	-0.644	-0.441	-0.113
##	theta[60]	0.591	0.168	0.268	0.474	0.593	0.704	0.917
##	theta[61]	-0.949	0.357	-1.727	-1.177	-0.927	-0.695	-0.332
##	theta[62]	-1.715	0.561	-2.963	-2.057	-1.672	-1.317	-0.765
##	theta[63]	0.382	0.160	0.064	0.279	0.382	0.487	0.694
##	theta[64]	0.705	0.189	0.355	0.570	0.700	0.831	1.081
##	theta[65]	0.269	0.167	-0.065	0.159	0.273	0.385	0.579
##	theta[66]	0.124	0.191	-0.300	0.011	0.138	0.251	0.464
##	theta[67]	0.302	0.159	-0.015	0.200	0.307	0.409	0.616
##	theta[68]	-1.634	0.527	-2.816	-1.956	-1.585	-1.258	-0.758
##	theta[69]	-1.756	0.526	-2.970	-2.067	-1.711	-1.384	-0.863
##	theta[70]	-0.259	0.230	-0.755	-0.396	-0.247	-0.103	0.136
##	theta[71]	-0.644	0.299	-1.318	-0.824	-0.619	-0.436	-0.134
##	theta[72]	-0.749	0.336	-1.455	-0.971	-0.721	-0.512	-0.165
##	theta[73]	-1.714	0.557	-2.953	-2.063	-1.665	-1.324	-0.759
##	theta[74]	0.527	0.163	0.204	0.419	0.524	0.633	0.855
##	theta[75]	-0.745	0.330	-1.465	-0.953	-0.722	-0.511	-0.166
##	theta[76]	-1.759	0.549	-3.002	-2.095	-1.705	-1.367	-0.831
##	theta[77]	-0.334	0.249	-0.877	-0.487	-0.316	-0.153	0.093
##	theta[78]	0.536	0.168	0.205	0.424	0.534	0.650	0.861
##	theta[79]	1.642	0.502	0.877	1.278	1.557	1.930	2.864
##	theta[80]	0.517	0.165	0.195	0.408	0.517	0.627	0.838
##	theta[81]	-0.916	0.372	-1.718	-1.155	-0.889	-0.650	-0.269
##	theta[82]	0.716	0.183	0.376	0.589	0.713	0.837	1.083
##	theta[83]	-1.643	0.103	-2.813	-1.955	-1.589	-1.263	-0.776
##		-0.249		-0.713	-0.389	-0.236		
##	theta[84] theta[85]	0.022	0.216 0.187	-0.713 -0.371	-0.369	0.028	-0.102 0.151	0.146 0.366
	theta[86] theta[87]	0.484	0.171 0.167	0.155	0.368	0.482	0.598	0.817
		0.558		0.243	0.446	0.554	0.665	0.905
	theta[88]	0.859	0.199	0.497	0.723	0.847	0.983	1.286
	theta[89]	1.650	0.481	0.923	1.296	1.579	1.938	2.798
	theta[90]	0.996	0.239	0.577	0.833	0.972	1.148	1.507
	theta[91]	0.331	0.166	-0.003	0.222	0.333	0.444	0.660
	theta[92]	-0.990	0.384	-1.824	-1.234	-0.965	-0.717	-0.322
	theta[93]	0.965	0.226	0.546	0.809	0.953	1.108	1.439
	theta[94]	1.144	0.279	0.675	0.948	1.118	1.307	1.768
	theta[95]	1.628	0.482	0.872	1.282	1.564	1.901	2.737
	theta[96]	1.005	0.241	0.588	0.838	0.987	1.154	1.519
	theta[97]	0.103	0.207	-0.352	-0.015	0.124	0.244	0.446
##	theta[98]	-0.968	0.368	-1.805	-1.185	-0.939	-0.712	-0.343
	theta[99]	0.898	0.210	0.511	0.760	0.886	1.027	1.348
	theta[100]	-1.245	0.450	-2.248	-1.509	-1.213	-0.924	-0.489
	theta[101]	-0.605	0.288	-1.214	-0.788	-0.580	-0.403	-0.094
	theta[102]	0.992	0.225	0.591	0.836	0.982	1.131	1.479
##	theta[103]	-0.641	0.297	-1.293	-0.827	-0.618	-0.429	-0.128

	.1 . [404]	4 454	0.070	0.000	0.004	4 400	4 007	4 704
	theta[104]	1.154	0.278	0.682	0.961	1.126	1.307	1.791
	theta[105]	0.565	0.168	0.242	0.453	0.563	0.674	0.902
##	theta[106]	-0.082	0.200	-0.491	-0.211	-0.078	0.059	0.289
##	theta[107]	-0.336	0.252	-0.868	-0.493	-0.321	-0.159	0.109
##	theta[108]	1.626	0.494	0.889	1.266	1.558	1.912	2.762
##	theta[109]	0.210	0.169	-0.124	0.096	0.214	0.327	0.518
##	theta[110]	0.488	0.168	0.174	0.373	0.488	0.598	0.822
##	theta[111]	-0.966	0.386	-1.821	-1.191	-0.935	-0.703	-0.310
##	theta[112]	-1.739	0.528	-2.936	-2.058	-1.697	-1.367	-0.841
##	theta[113]	0.094	0.171	-0.262	-0.014	0.097	0.211	0.411
##	theta[114]	0.191	0.180	-0.178	0.078	0.198	0.316	0.510
##	theta[115]	0.374	0.161	0.063	0.265	0.375	0.484	0.682
##	theta[116]	1.154	0.276	0.675	0.955	1.126	1.325	1.769
##	theta[117]	-1.635	0.539	-2.813	-1.962	-1.588	-1.259	-0.704
##	theta[118]	0.072	0.227	-0.444	-0.054	0.094	0.224	0.465
##	theta[119]	0.509	0.163	0.179	0.403	0.509	0.616	0.839
##	theta[120]	-1.760	0.540	-2.951	-2.082	-1.715	-1.380	-0.846
##	theta[121]	-1.661	0.589	-2.959	-2.018	-1.602	-1.241	-0.694
##	theta[122]	-0.499	0.261	-1.052	-0.666	-0.478	-0.318	-0.039
##	theta[123]	-0.766	0.307	-1.422	-0.965	-0.741	-0.553	-0.220
##	theta[124]	1.661	0.516	0.889	1.284	1.584	1.961	2.877
##	theta[125]	0.557	0.165	0.229	0.446	0.557	0.667	0.883
##	theta[126]	0.873	0.207	0.488	0.731	0.867	1.005	1.303
##	theta[127]	1.116	0.263	0.660	0.931	1.098	1.277	1.689
##	theta[128]	0.770	0.183	0.419	0.649	0.767	0.885	1.145
##	theta[129]	0.113	0.220	-0.387	-0.011	0.130	0.265	0.476
##	theta[130]	0.872	0.211	0.490	0.725	0.861	1.003	1.316
##	theta[131]	-0.662	0.352	-1.419	-0.884	-0.640	-0.404	-0.068
##	theta[132]	0.461	0.168	0.138	0.351	0.460	0.573	0.802
##	theta[133]	-0.287	0.262	-0.883	-0.437	-0.257	-0.106	0.144
##	theta[134]	-1.705	0.540	-2.913	-2.050	-1.669	-1.314	-0.774
##	theta[135]	-1.653	0.547	-2.858	-1.972	-1.601	-1.278	-0.723
##	theta[136]	1.143	0.286	0.648	0.940	1.121	1.317	1.769
##	theta[137]	0.330	0.165	-0.013	0.225	0.333	0.438	0.651
##	theta[138]	1.054	0.245	0.624	0.881	1.034	1.204	1.598
##	theta[139]	-1.565	0.531	-2.733	-1.889	-1.522	-1.180	-0.665
	theta[140]	0.845	0.197	0.477	0.710	0.836	0.967	1.271
	theta[141]	0.320	0.168	-0.015	0.211	0.322	0.432	0.649
	theta[142]	0.945	0.218	0.549	0.795	0.935	1.081	1.408
	theta[143]	-0.980	0.380	-1.816	-1.211	-0.953	-0.716	-0.313
	theta[144]	-1.144	0.470	-2.094	-1.435	-1.109	-0.813	-0.340
	theta[145]	-0.732	0.340	-1.447	-0.957	-0.721	-0.489	-0.116
	theta[146]	0.649	0.165	0.332	0.536	0.645	0.763	0.981
	theta[147]	0.930	0.213	0.543	0.788	0.920	1.061	1.380
	theta[148]	-1.751	0.519	-2.906	-2.068	-1.698	-1.384	-0.860
	theta[149]	0.492	0.160	0.181	0.389	0.491	0.598	0.808
	theta[150]	1.656	0.502	0.875	1.296	1.584	1.942	2.817
	theta[151]	0.795	0.302	0.441	0.665	0.789	0.921	1.184
	theta[151]	1.029	0.131	0.602	0.868	1.015	1.175	1.564
	theta[152]	0.760	0.240	0.426	0.636	0.758	0.878	1.126
	theta[154]	0.760	0.100	0.420	0.730	0.758	1.001	1.120
	theta[154]	0.726	0.204	0.478	0.730	0.722	0.842	1.091
	theta[156]	0.726	0.100	0.582	0.804	0.722	1.126	1.475
	theta[150]	0.696	0.229	0.362	0.578	0.963	0.805	1.475
##	one ca[131]	0.090	0.1/4	0.3/1	0.010	0.091	0.005	1.007

##	theta[158]	0.207	0.180	-0.164	0.097	0.214	0.330	0.543
##	theta[159]	0.277	0.160	-0.046	0.169	0.280	0.386	0.586
##	theta[160]	0.834	0.202	0.447	0.692	0.824	0.973	1.238
##	theta[161]	0.692	0.175	0.364	0.576	0.687	0.804	1.050
##	theta[162]	0.953	0.230	0.535	0.794	0.939	1.093	1.455
##	theta[163]	1.141	0.281	0.659	0.944	1.119	1.316	1.757
##	theta[164]	0.984	0.217	0.595	0.836	0.972	1.118	1.451
##	theta[165]	-1.753	0.553	-2.981	-2.088	-1.703	-1.363	-0.810
##	theta[166]	-1.565	0.532	-2.763	-1.889	-1.514	-1.190	-0.653
##	theta[167]	-1.251	0.448	-2.259	-1.515	-1.213	-0.936	-0.506
##	theta[168]	1.643	0.505	0.879	1.285	1.564	1.908	2.827
##	theta[169]	0.896	0.215	0.503	0.756	0.884	1.023	1.361
##	theta[170]	-1.757	0.533	-2.966	-2.085	-1.702	-1.379	-0.848
##	theta[171]	-0.417	0.367	-1.272	-0.634	-0.336	-0.149	0.100
##	theta[172]	0.652	0.175	0.323	0.534	0.648	0.763	1.014
##	theta[173]	1.639	0.487	0.902	1.283	1.564	1.910	2.774
##	theta[174]	0.100	0.184	-0.285	-0.019	0.105	0.230	0.434
##	theta[175]	-0.601	0.328	-1.281	-0.817	-0.583	-0.368	-0.008
##	theta[176]	0.075	0.220	-0.419	-0.053	0.092	0.230	0.456
##	theta[177]	0.390	0.171	0.045	0.278	0.389	0.502	0.743
##	theta[178]	-0.415	0.250	-0.934	-0.570	-0.402	-0.242	0.039
##	theta[179]	0.536	0.168	0.221	0.421	0.537	0.655	0.858
##	theta[180]	0.931	0.214	0.537	0.786	0.919	1.063	1.383
##	theta[181]	-1.710	0.578	-2.966	-2.067	-1.659	-1.306	-0.712
##	theta[182]	0.417	0.173	0.063	0.304	0.422	0.531	0.755
##	theta[183]	0.319	0.167	-0.018	0.209	0.321	0.429	0.637
##	theta[184]	1.005	0.239	0.580	0.839	0.987	1.157	1.518
##	theta[185]	1.133	0.270	0.674	0.946	1.108	1.301	1.730
##	theta[186]	0.819	0.190	0.462	0.684	0.816	0.941	1.204
##	theta[187]	-0.531	0.277	-1.150	-0.698	-0.507	-0.344	-0.044
##	theta[188]	-0.640	0.336	-1.313	-0.863	-0.629	-0.403	-0.024
##	theta[189]	1.656	0.516	0.880	1.274	1.574	1.948	2.884
##	theta[190]	1.642	0.482	0.879	1.295	1.585	1.918	2.740
##	theta[191]	0.960	0.224	0.552	0.802	0.945	1.098	1.448
##	theta[192]	1.126	0.273	0.651	0.932	1.105	1.294	1.751
##	theta[193]	0.858	0.198	0.505	0.726	0.849	0.980	1.280
	theta[194]	-0.209	0.278	-0.891	-0.349	-0.168	-0.016	0.208
	theta[195]	-1.115	0.437	-2.072	-1.367	-1.073	-0.808	-0.390
	theta[196]	1.126	0.279	0.652	0.927	1.101	1.299	1.730
	theta[197]	1.068	0.264	0.607	0.883	1.047	1.231	1.649
	theta[198]	1.635	0.487	0.879	1.281	1.554	1.915	2.764
	theta[199]	1.222	0.318	0.704	1.001	1.181	1.411	1.916
	theta[200]	-0.351	0.243	-0.868	-0.503	-0.329	-0.178	0.074
##	theta[201]	1.629	0.487	0.885	1.277	1.551	1.914	2.763
##	theta[202]	0.954	0.226	0.544	0.798	0.936	1.097	1.423
##	theta[203]	0.587	0.168	0.259	0.475	0.583	0.697	0.909
##	theta[204]	1.133	0.273	0.659	0.943	1.111	1.300	1.733
##	theta[205]	0.064	0.228	-0.456	-0.067	0.082	0.224	0.448
##	theta[206]	0.392	0.162	0.063	0.284	0.391	0.498	0.712
## ##	theta[207] theta[208]	0.508 -0.074	0.170	0.176 -0.510	0.393	0.508 -0.062	0.622 0.076	0.839
	theta[208]	0.958	0.209 0.232	0.548	-0.210 0.790	0.943	1.106	0.296 1.442
	theta[209]	1.644	0.232	0.546	1.287	1.589	1.106	2.763
	theta[210]	-0.833	0.492	-1.613	-1.060	-0.816	-0.579	-0.172
##	one og [ZII]	0.033	0.301	1.013	1.000	0.010	0.519	0.172

##	theta[212]	0.210	0.174	-0.158	0.103	0.217	0.327	0.536
##	theta[213]	1.636	0.488	0.871	1.281	1.569	1.916	2.770
##	theta[214]	1.151	0.274	0.658	0.961	1.130	1.321	1.740
##	theta[215]	-0.526	0.289	-1.148	-0.687	-0.497	-0.332	-0.050
##	theta[216]	1.640	0.503	0.867	1.274	1.578	1.926	2.851
##	theta[217]	-1.719	0.553	-2.899	-2.060	-1.674	-1.331	-0.773
##	theta[218]	0.930	0.215	0.545	0.784	0.917	1.069	1.373
##	theta[219]	0.180	0.162	-0.145	0.073	0.183	0.287	0.489
##	theta[220]	0.460	0.167	0.130	0.354	0.465	0.570	0.788
##	theta[221]	0.400	0.176	-0.072	0.164	0.278	0.396	0.634
##	theta[222]	0.535	0.169	0.217	0.422	0.532	0.641	0.884
##	theta[223]	1.644	0.491	0.862	1.283	1.579	1.931	2.773
##	theta[224]	-1.630	0.529	-2.833	-1.937	-1.586	-1.261	-0.719
##	theta[224]	0.843	0.200	0.471	0.709	0.830	0.972	1.263
##	theta[226]	-0.644	0.364	-1.397	-0.886	-0.629	-0.386	0.027
##	theta[227]	-1.747	0.535	-2.936	-2.078	-1.702	-1.361	-0.848
##	theta[228]	-0.735	0.330	-1.466	-0.926	-0.700	-0.509	-0.183
##	theta[229]	0.733	0.330	0.500	0.748	0.700	1.028	1.344
##	theta[230]	0.033	0.213	-0.111	0.148	0.331	0.323	0.532
##	theta[231]	-1.769	0.103	-2.943	-2.109	-1.723	-1.386	-0.865
##	theta[231]	0.429	0.337	0.106	0.313	0.430	0.541	0.764
##	theta[233]	-0.552	0.108			-0.540	-0.360	-0.051
	theta[234]	0.808	0.273	-1.125 0.427	-0.729 0.670		0.937	1.232
##						0.803		
##	theta[235]	-0.450	0.255	-0.990	-0.603	-0.433	-0.276	0.003
##	theta[236]	-0.016	0.195	-0.429	-0.138	-0.011	0.118	0.340
##	theta[237]	0.072	0.182	-0.305	-0.050	0.079	0.200	0.405
##	theta[238]	1.120	0.261	0.676	0.942	1.101	1.282	1.679
##	theta[239]	0.118	0.205	-0.346	0.003	0.134	0.256	0.457
##	theta[240]	-0.391	0.253	-0.915	-0.558	-0.372	-0.213	0.063
##	theta[241]	0.769	0.190	0.418	0.638	0.757	0.892	1.166
##	theta[242]	0.258	0.158	-0.059	0.152	0.257	0.367	0.562
##	theta[243]	0.551	0.173	0.221	0.432	0.548	0.664	0.894
##	theta[244]	-0.494	0.276	-1.087	-0.659	-0.474	-0.303	-0.013
##	theta[245]	1.362	0.377	0.762	1.091	1.312	1.574	2.248
##	theta[246]	-1.731	0.542	-2.928	-2.074	-1.693	-1.340	-0.809
##	theta[247]	0.775	0.186	0.432	0.646	0.770	0.893	1.164
	theta[248]	0.880	0.205	0.513	0.736	0.865	1.008	1.308
	theta[249]	-1.231	0.431	-2.172	-1.485	-1.200	-0.925	-0.502
	theta[250]	-0.862	0.353	-1.641	-1.073	-0.834	-0.612	-0.262
	theta[251]	-1.716	0.549	-2.904	-2.063	-1.675	-1.309	-0.785
	theta[252]	0.195	0.167	-0.139	0.087	0.201	0.307	0.510
	theta[253]	-1.601	0.569	-2.763	-1.975	-1.590	-1.192	-0.544
	theta[254]	0.877	0.201	0.505	0.737	0.867	1.007	1.300
##	theta[255]	-0.483	0.249	-1.003	-0.642	-0.466	-0.304	-0.035
##	theta[256]	0.709	0.177	0.376	0.585	0.705	0.825	1.068
##	theta[257]	1.639	0.500	0.869	1.273	1.559	1.927	2.834
##	theta[258]	0.973	0.231	0.548	0.816	0.959	1.114	1.465
##	theta[259]	0.395	0.168	0.060	0.285	0.399	0.503	0.717
##	theta[260]	0.525	0.166	0.213	0.412	0.522	0.635	0.858
##	theta[261]	-0.898	0.346	-1.643	-1.121	-0.874	-0.660	-0.283
	theta[262]	0.693	0.177	0.360	0.568	0.690	0.806	1.051
	theta[263]	-0.378	0.240	-0.880	-0.532	-0.364	-0.210	0.039
	theta[264]	-1.008	0.370	-1.811	-1.228	-0.982	-0.751	-0.374
##	theta[265]	-1.093	0.466	-2.098	-1.383	-1.069	-0.772	-0.256

##	theta[266]	0.862	0.211	0.468	0.718	0.854	0.997	1.289
##	theta[267]	1.124	0.273	0.662	0.937	1.099	1.286	1.733
##	theta[268]	-0.010	0.205	-0.463	-0.131	0.005	0.128	0.349
##	theta[269]	0.373	0.164	0.048	0.263	0.375	0.486	0.682
##	theta[270]	0.787	0.193	0.411	0.660	0.779	0.907	1.184
##	theta[271]	-0.568	0.300	-1.229	-0.758	-0.543	-0.353	-0.050
##	theta[272]	0.394	0.159	0.082	0.291	0.395	0.496	0.700
##	theta[273]	0.974	0.225	0.565	0.821	0.961	1.115	1.456
##	theta[274]	-0.222	0.269	-0.811	-0.374	-0.196	-0.040	0.221
##	theta[275]	1.634	0.478	0.878	1.293	1.573	1.904	2.771
##	theta[276]	0.014	0.187	-0.378	-0.107	0.021	0.145	0.357
##	theta[277]	0.703	0.181	0.376	0.576	0.696	0.826	1.071
##	theta[278]	1.631	0.492	0.872	1.271	1.563	1.929	2.825
##	theta[270]	1.123	0.432	0.644	0.926	1.095	1.295	1.735
##	theta[280]	1.649	0.503	0.884	1.270	1.585	1.939	2.786
##	theta[281]	1.020	0.235	0.614	0.857	1.002	1.165	1.520
##	theta[281]	1.641	0.492	0.877	1.286	1.579	1.103	2.778
##	theta[283]	0.506	0.492	0.377	0.395	0.509	0.613	0.818
##	theta[284]	1.156	0.101	0.193	0.959	1.127	1.321	1.815
##	theta[285]	0.500	0.263	0.200	0.391	0.498	0.606	0.828
##	theta[286]	-0.792	0.139	-1.728	-0.995	-0.740	-0.536	-0.164
##	theta[287]	0.629	0.363	0.300	0.515		0.739	0.978
	theta[288]	0.829	0.109			0.629 0.858	0.739	1.287
##	theta[289]		0.203	0.491 0.191	0.727		0.996	0.837
##		0.514			0.405	0.513		
##	theta[290]	0.985	0.231	0.574	0.828	0.964	1.130	1.495
##	theta[291]	-1.757	0.537	-2.922	-2.097	-1.715	-1.382	-0.817
##	theta[292]	-0.197	0.215	-0.660	-0.332	-0.183	-0.048	0.196
##	theta[293]	0.051	0.187	-0.339	-0.067	0.058	0.180	0.392
##	theta[294]	-0.554	0.278	-1.137	-0.732	-0.540	-0.359	-0.053
##	theta[295]	1.134	0.273	0.660	0.941	1.113	1.300	1.726
##	theta[296]	-1.227	0.441	-2.176	-1.507	-1.197	-0.913	-0.451
##	theta[297]	-1.671	0.589	-2.938	-2.038	-1.642	-1.276	-0.560
##	theta[298]	0.390	0.156	0.087	0.285	0.388	0.496	0.691
##	theta[299]	-0.869	0.383	-1.762	-1.073	-0.829	-0.598	-0.267
##	theta[300]	0.947	0.228	0.532	0.788	0.938	1.092	1.443
##	theta[301]	1.133	0.279	0.650	0.936	1.113	1.305	1.735
	theta[302]	1.057	0.250	0.601	0.882	1.043	1.215	1.590
	theta[303]	0.416	0.166	0.091	0.307	0.417	0.526	0.731
	theta[304]	-0.177	0.211	-0.627	-0.309	-0.163	-0.025	0.188
	theta[305]	1.053	0.253	0.614	0.880	1.032	1.200	1.619
	theta[306]	0.428	0.155	0.121	0.323	0.425	0.534	0.738
	theta[307]	-0.311	0.238	-0.837	-0.454	-0.300	-0.147	0.124
	theta[308]	-0.281	0.233	-0.769	-0.426	-0.265	-0.120	0.135
##	theta[309]	-1.549	0.545	-2.770	-1.877	-1.495	-1.169	-0.616
##	theta[310]	-0.430	0.264	-1.006	-0.598	-0.403	-0.248	0.013
##	theta[311]	0.174	0.170	-0.165	0.058	0.180	0.293	0.496
##	theta[312]	-1.589	0.562	-2.829	-1.927	-1.527	-1.190	-0.651
##	theta[313]	0.546	0.169	0.226	0.434	0.544	0.655	0.880
##	theta[314]	-0.366	0.256	-0.921	-0.528	-0.350	-0.186	0.080
##	theta[315]	0.699	0.173	0.372	0.582	0.696	0.809	1.048
	theta[316]	-0.159	0.211	-0.604	-0.296	-0.151	-0.013	0.230
	theta[317]	-0.301	0.281	-0.917	-0.479	-0.279	-0.100	0.190
	theta[318]	0.514	0.169	0.184	0.404	0.514	0.628	0.847
##	theta[319]	0.783	0.192	0.422	0.650	0.777	0.906	1.178

##	theta[320]	-0.493	0.271	-1.066	-0.668	-0.473	-0.305	-0.009
##	theta[321]	-0.156	0.215	-0.609	-0.291	-0.145	-0.009	0.230
##	theta[322]	0.889	0.217	0.504	0.736	0.877	1.027	1.348
##	theta[323]	1.119	0.276	0.655	0.926	1.098	1.285	1.727
##	theta[324]	0.645	0.173	0.315	0.526	0.641	0.757	0.996
##	theta[325]	0.872	0.209	0.482	0.731	0.864	1.003	1.317
##	theta[326]	-0.379	0.243	-0.894	-0.535	-0.365	-0.210	0.067
##	theta[327]	-1.726	0.555	-2.899	-2.081	-1.671	-1.328	-0.772
##	theta[328]	0.564	0.178	0.214	0.441	0.569	0.686	0.906
##	theta[329]	0.017	0.178	-0.359	-0.096	0.023	0.139	0.348
##	theta[330]	-0.232	0.227	-0.703	-0.379	-0.215	-0.076	0.182
##	theta[331]	-0.111	0.208	-0.543	-0.242	-0.101	0.035	0.271
##	theta[332]	0.122	0.176	-0.242	0.011	0.127	0.241	0.449
##	theta[333]	-0.497	0.278	-1.082	-0.674	-0.481	-0.302	-0.015
##	theta[334]	-1.634	0.520	-2.795	-1.950	-1.578	-1.269	-0.761
##	theta[335]	0.628	0.176	0.301	0.508	0.627	0.738	1.001
##	theta[336]	0.080	0.183	-0.299	-0.036	0.086	0.206	0.418
##	theta[337]	-0.756	0.340	-1.501	-0.968	-0.733	-0.515	-0.179
##	theta[338]	-0.646	0.307	-1.307	-0.841	-0.617	-0.429	-0.113
##	theta[339]	0.327	0.168	-0.022	0.220	0.333	0.441	0.647
##	theta[340]	1.132	0.278	0.659	0.942	1.108	1.291	1.752
##	theta[341]	1.135	0.274	0.655	0.945	1.118	1.299	1.734
##	theta[342]	-1.634	0.529	-2.803	-1.964	-1.584	-1.256	-0.742
##	theta[343]	-1.526	0.541	-2.728	-1.851	-1.468	-1.152	-0.618
##	theta[344]	0.879	0.211	0.497	0.733	0.862	1.014	1.329
##	theta[345]	-1.536	0.555	-2.795	-1.868	-1.472	-1.143	-0.617
##	theta[346]	0.888	0.213	0.511	0.741	0.874	1.020	1.349
##	theta[347]	-0.181	0.257	-0.723	-0.349	-0.160	0.006	0.255
##	theta[348]	0.159	0.172	-0.179	0.045	0.163	0.273	0.489
##	theta[349]	-0.166	0.229	-0.644	-0.310	-0.152	-0.007	0.240
##	theta[350]	0.716	0.187	0.361	0.585	0.713	0.837	1.101
##	theta[351]	0.994	0.231	0.596	0.831	0.979	1.145	1.477
##	theta[352]	-0.494	0.288	-1.102	-0.681	-0.471	-0.293	0.018
##	theta[353]	-1.531	0.559	-2.769	-1.868	-1.482	-1.133	-0.608
##	theta[354]	1.131	0.283	0.645	0.927	1.111	1.306	1.740
##	theta[355]	-0.101	0.202	-0.535	-0.228	-0.092	0.040	0.270
	theta[356]	0.771	0.188	0.422	0.640	0.767	0.891	1.164
	theta[357]	0.002	0.189	-0.388	-0.120	0.010	0.135	0.350
	theta[358]	1.630	0.495	0.875	1.269	1.560	1.912	2.763
	theta[359]	0.895	0.207	0.512	0.752	0.887	1.032	1.312
	theta[360]	0.131	0.177	-0.238	0.016	0.137	0.254	0.456
	theta[361]	0.759	0.185	0.414	0.632	0.752	0.881	1.139
##	theta[362]	0.384	0.160	0.064	0.274	0.387	0.494	0.690
##	theta[363]	0.832	0.198	0.473	0.700	0.825	0.957	1.247
##	theta[364]	-0.596	0.310	-1.243	-0.797	-0.571	-0.372	-0.067
##	theta[365]	0.708	0.180	0.374	0.583	0.704	0.818	1.078
##	theta[366]	0.247	0.164	-0.088	0.141	0.250	0.355	0.562
##	theta[367]	-0.550	0.270	-1.112	-0.730	-0.534	-0.360	-0.064
##	theta[368]	0.867	0.203	0.501	0.725	0.856	0.996	1.282
##	theta[369]	0.987	0.222	0.593	0.829	0.969	1.129	1.470
##	theta[370]	1.134	0.269	0.653	0.944	1.115	1.299	1.735
##	theta[371]	-0.299	0.231	-0.775	-0.449	-0.288	-0.137	0.126
	theta[372]	-0.499	0.272	-1.092	-0.664	-0.485	-0.310	-0.013
##	theta[373]	-0.140	0.207	-0.570	-0.273	-0.132	0.003	0.234

	theta[374]	0.759	0.185	0.403	0.633	0.758	0.884	1.128
	theta[375]	0.705	0.183	0.362	0.576	0.700	0.827	1.076
	theta[376]	0.632	0.167	0.322	0.520	0.628	0.739	0.971
	theta[377]	-0.487	0.276	-1.088	-0.660	-0.467	-0.293	0.005
	theta[378]	0.148	0.185	-0.249	0.030	0.160	0.275	0.488
##	theta[379]	0.168	0.174	-0.190	0.055	0.175	0.289	0.498
##	theta[380]	-0.445	0.267	-1.016	-0.611	-0.430	-0.258	0.029
##	theta[381]	-0.157	0.206	-0.590	-0.292	-0.145	-0.013	0.205
##	theta[382]	-0.109	0.212	-0.553	-0.247	-0.098	0.043	0.283
##	theta[383]	0.885	0.209	0.504	0.739	0.874	1.021	1.326
##	theta[384]	0.603	0.173	0.283	0.484	0.599	0.713	0.965
##	theta[385]	0.839	0.208	0.460	0.694	0.833	0.968	1.271
##	theta[386]	0.045	0.180	-0.320	-0.075	0.052	0.172	0.373
##	theta[387]	-0.487	0.277	-1.048	-0.670	-0.468	-0.290	-0.003
##	theta[388]	-0.055	0.196	-0.467	-0.176	-0.044	0.078	0.295
##	theta[389]	1.132	0.280	0.656	0.926	1.111	1.308	1.720
##	theta[390]	-0.252	0.243	-0.767	-0.408	-0.235	-0.085	0.176
##	theta[391]	-0.149	0.213	-0.597	-0.282	-0.135	-0.004	0.235
##	theta[392]	-0.605	0.280	-1.174	-0.786	-0.594	-0.409	-0.089
##	theta[393]	-0.550	0.288	-1.166	-0.729	-0.528	-0.348	-0.056
##	theta[394]	1.632	0.472	0.871	1.285	1.575	1.907	2.729
##	theta[395]	-1.526	0.551	-2.748	-1.849	-1.481	-1.124	-0.595
##	theta[396]	1.644	0.496	0.876	1.288	1.575	1.923	2.776
##	theta[397]	-1.514	0.545	-2.700	-1.870	-1.467	-1.126	-0.582
##	theta[398]	-0.024	0.198	-0.441	-0.150	-0.015	0.114	0.333
##	theta[399]	-1.732	0.554	-2.993	-2.057	-1.667	-1.347	-0.809
##	theta[400]	1.007	0.237	0.606	0.844	0.986	1.153	1.519
##	theta[401]	0.035	0.179	-0.333	-0.080	0.040	0.155	0.374
##	theta[402]	0.528	0.166	0.207	0.420	0.525	0.641	0.852
##	theta[403]	0.818	0.199	0.451	0.681	0.812	0.948	1.221
##	theta[404]	-0.225	0.256	-0.778	-0.379	-0.201	-0.043	0.201
##	theta[405]	0.736	0.178	0.397	0.617	0.733	0.855	1.086
##	theta[406]	-1.713	0.547	-2.893	-2.052	-1.669	-1.328	-0.740
##	theta[407]	-0.285	0.245	-0.836	-0.434	-0.262	-0.119	0.138
##	theta[408]	-1.735	0.571	-2.976	-2.085	-1.684	-1.339	-0.761
##	theta[409]	0.695	0.177	0.354	0.575	0.693	0.814	1.042
##	theta[410]	0.720	0.178	0.388	0.596	0.716	0.836	1.085
##	theta[411]	-0.212	0.217	-0.681	-0.348	-0.192	-0.064	0.181
##	theta[412]	-0.490	0.279	-1.095	-0.668	-0.471	-0.296	-0.004
##	theta[413]	0.993	0.231	0.592	0.832	0.982	1.139	1.486
##	theta[414]	-0.793	0.315	-1.471	-0.992	-0.772	-0.572	-0.230
##	theta[415]	-1.586	0.533	-2.808	-1.912	-1.534	-1.199	-0.705
	theta[416]	-0.308	0.283	-0.960	-0.476	-0.275	-0.110	0.147
##	theta[417]	-0.465	0.308	-1.133	-0.664	-0.450	-0.246	0.075
##	theta[418]	-0.594	0.315	-1.265	-0.794	-0.578	-0.370	-0.043
##	theta[419]	-0.016	0.191	-0.414	-0.138	-0.011	0.119	0.340
##	theta[420]	-0.392	0.349	-1.113	-0.626	-0.368	-0.131	0.205
##	theta[421]	-1.572	0.541	-2.837	-1.903	-1.524	-1.181	-0.663
##	theta[422]	0.584	0.173	0.261	0.468	0.578	0.698	0.934
##	theta[423]	-1.677	0.566	-2.975	-2.006	-1.616	-1.284	-0.720
	theta[424]	-0.412	0.261	-0.952	-0.583	-0.394	-0.229	0.060
	theta[425]	-0.421	0.273	-1.005	-0.597	-0.398	-0.222	0.052
##	theta[426]	-1.712	0.540	-2.894	-2.055	-1.666	-1.336	-0.786
##	theta[427]	-0.409	0.254	-0.936	-0.573	-0.397	-0.231	0.069

##	theta[428]	0.741	0.182	0.422	0.613	0.733	0.860	1.121
##	theta[429]	0.866	0.204	0.500	0.723	0.855	0.998	1.291
##	theta[430]	-0.431	0.288	-1.045	-0.622	-0.410	-0.224	0.088
##	theta[431]	1.631	0.480	0.863	1.286	1.564	1.910	2.725
##	theta[432]	0.787	0.197	0.429	0.652	0.781	0.914	1.198
			0.197	0.429	0.655	0.781	0.914	1.198
##	theta[433]	0.785						
##	theta[434]	0.864	0.205	0.475	0.728	0.857	0.995	1.292
##	theta[435]	-1.604	0.540	-2.779	-1.937	-1.560	-1.223	-0.681
##	theta[436]	-1.703	0.548	-2.885	-2.040	-1.672	-1.320	-0.763
##	theta[437]	-0.489	0.273	-1.067	-0.659	-0.473	-0.299	-0.016
##	theta[438]	0.137	0.173	-0.217	0.022	0.145	0.253	0.455
##	theta[439]	0.724	0.184	0.384	0.597	0.716	0.842	1.103
##	theta[440]	0.751	0.187	0.402	0.623	0.741	0.873	1.134
##	theta[441]	-1.523	0.520	-2.670	-1.834	-1.489	-1.153	-0.628
##	theta[442]	-1.751	0.572	-3.038	-2.105	-1.701	-1.345	-0.779
##	theta[443]	0.686	0.178	0.348	0.568	0.683	0.803	1.048
##	theta[444]	0.244	0.166	-0.090	0.131	0.253	0.354	0.560
##	theta[445]	1.045	0.243	0.627	0.869	1.025	1.194	1.596
##	theta[446]	-1.711	0.541	-2.922	-2.051	-1.662	-1.324	-0.785
##	theta[447]	0.598	0.168	0.274	0.484	0.598	0.710	0.935
##	theta[448]	0.288	0.160	-0.025	0.180	0.292	0.393	0.596
##	theta[449]	0.168	0.180	-0.211	0.055	0.175	0.292	0.500
##	theta[450]	-0.470	0.300	-1.088	-0.664	-0.453	-0.256	0.062
##	theta[451]	-0.680	0.313	-1.355	-0.872	-0.660	-0.457	-0.127
##	theta[452]	-0.325	0.253	-0.872	-0.482	-0.308	-0.148	0.121
##	theta[453]	0.996	0.232	0.582	0.834	0.986	1.141	1.499
##	theta[454]	-1.736	0.568	-2.983	-2.087	-1.674	-1.336	-0.767
##	theta[455]	-0.349	0.336	-1.159	-0.522	-0.294	-0.123	0.155
##	theta[456]	0.943	0.221	0.547	0.788	0.930	1.081	1.417
##	theta[457]	0.034	0.195	-0.368	-0.096	0.041	0.176	0.394
##	theta[458]	0.887	0.217	0.503	0.738	0.873	1.025	1.346
##	theta[459]	0.886	0.208	0.510	0.740	0.873	1.012	1.338
##	theta[460]	0.146	0.177	-0.220	0.033	0.152	0.272	0.471
##	theta[461]	0.242	0.169	-0.113	0.134	0.245	0.358	0.567
##	theta[462]	-0.634	0.308	-1.295	-0.827	-0.611	-0.414	-0.097
##	theta[463]	-0.360	0.288	-0.971	-0.542	-0.334	-0.157	0.133
	theta[464]	0.593	0.170	0.264	0.479	0.590	0.706	0.930
##	theta[465]	0.100	0.173	-0.242	-0.018	0.104	0.225	0.421
##	theta[466]	0.754	0.197	0.380	0.620	0.748	0.879	1.159
##	theta[467]	-0.297	0.233	-0.783	-0.437	-0.284	-0.136	0.114
##	theta[468]	1.124	0.271	0.660	0.937	1.103	1.289	1.715
##	theta[469]	0.161	0.173	-0.202	0.048	0.167	0.280	0.482
##	theta[470]	0.474	0.164	0.147	0.367	0.476	0.581	0.789
##	theta[471]	0.240	0.169	-0.102	0.127	0.245	0.355	0.566
##	theta[472]	0.870	0.211	0.486	0.720	0.862	1.009	1.308
##	theta[473]	0.664	0.171	0.321	0.550	0.660	0.782	1.002
##	theta[474]	0.670	0.168	0.348	0.555	0.662	0.779	1.008
##	theta[475]	-1.716	0.538	-2.876	-2.059	-1.677	-1.329	-0.786
##	theta[476]	1.022	0.235	0.603	0.860	1.009	1.166	1.510
##	theta[477]	0.153	0.176	-0.201	0.042	0.155	0.272	0.485
##	theta[478]	0.559	0.171	0.228	0.445	0.558	0.676	0.894
	theta[479]	-0.175	0.215	-0.636	-0.313	-0.164	-0.026	0.204
##	theta[480]	0.538	0.159	0.228	0.429	0.541	0.644	0.847
##	theta[481]	0.729	0.192	0.363	0.599	0.725	0.851	1.134

##	theta[482]	-0.604	0.324	-1.297	-0.810	-0.586	-0.374	-0.038
##	theta[483]	0.005	0.204	-0.420	-0.127	0.017	0.144	0.375
##	theta[484]	-0.019	0.188	-0.402	-0.141	-0.014	0.111	0.331
##	theta[485]	-0.016	0.195	-0.416	-0.143	-0.010	0.126	0.343
##	theta[486]	0.064	0.235	-0.471	-0.064	0.087	0.220	0.462
##	theta[487]	0.558	0.171	0.227	0.443	0.556	0.677	0.888
##	theta[488]	-0.412	0.266	-0.986	-0.573	-0.393	-0.226	0.053
##	theta[489]	0.708	0.183	0.363	0.587	0.700	0.826	1.072
##	theta[490]	-0.357	0.260	-0.918	-0.525	-0.341	-0.177	0.112
##	theta[491]	-1.719	0.562	-2.951	-2.053	-1.666	-1.323	-0.759
##	theta[492]	0.190	0.177	-0.160	0.077	0.193	0.306	0.538
##	theta[493]	-1.648	0.537	-2.817	-1.984	-1.603	-1.261	-0.761
##	theta[494]	0.918	0.218	0.522	0.773	0.904	1.058	1.395
##	theta[495]	-1.294	0.450	-2.269	-1.564	-1.258	-0.981	-0.530
##	theta[496]	0.574	0.430	0.229	0.458	0.574	0.686	0.922
##	theta[490]	-1.657	0.177	-2.891	-1.956	-1.595	-1.284	-0.747
##	theta[497]	-1.701	0.543	-2.891	-2.028	-1.657	-1.322	-0.747
##	theta[498]	-1.701	0.538	-2.901 -2.858	-2.028 -2.043	-1.690	-1.322 -1.359	-0.773
##	theta[500]	-0.665	0.304	-1.301	-2.043	-0.645	-0.457	-0.020
##	theta[500]	0.082	0.304	-0.299	-0.031	0.088	0.210	0.417
##	theta[501]		0.103	-1.288	-0.786		-0.360	0.417
		-0.586				-0.572		
##	theta[503] theta[504]	-1.716	0.552	-2.953	-2.054	-1.666	-1.323	-0.794
##		-0.536	0.282	-1.152	-0.713	-0.516	-0.337	-0.039
##	theta[505]	-1.340	0.440	-2.292	-1.608	-1.309	-1.033	-0.563
##	theta[506]	-1.739	0.527	-2.842	-2.074	-1.692	-1.362	-0.815
##	theta[507]	-0.665	0.304	-1.309	-0.860	-0.644	-0.450	-0.109
##	theta[508]	-0.548	0.269	-1.114	-0.716	-0.531	-0.365	-0.058
##	theta[509]	-1.753	0.552	-3.004	-2.084	-1.707	-1.368	-0.834
##	theta[510]	-1.693	0.542	-2.893	-2.018	-1.648	-1.323	-0.750
##	theta[511]	-0.422	0.264	-0.978	-0.590	-0.403	-0.234	0.047
##	theta[512]	-0.488	0.270	-1.062	-0.663	-0.470	-0.299	-0.017
##	theta[513]	0.581	0.173	0.249	0.468	0.577	0.694	0.927
##	theta[514]	-0.483	0.274	-1.064	-0.659	-0.467	-0.290	0.005
##	theta[515]	-0.537	0.281	-1.141	-0.710	-0.518	-0.339	-0.041
##	theta[516]	-0.474	0.281	-1.063	-0.653	-0.455	-0.278	0.026
##	theta[517]	-1.169	0.451	-2.152	-1.437	-1.126	-0.846	-0.424
	theta[518]	0.167	0.199	-0.268	0.044	0.182	0.300	0.528
	theta[519]	-1.742	0.547	-2.919	-2.091	-1.682	-1.349	-0.823
	theta[520]	0.474	0.165	0.152	0.366	0.474	0.584	0.806
	theta[521]	-1.342	0.444	-2.353	-1.594	-1.298	-1.035	-0.595
	theta[522]	-1.304	0.447	-2.295	-1.586	-1.261	-0.982	-0.545
	theta[523]	-1.333	0.457	-2.376	-1.590	-1.280	-1.013	-0.591
	theta[524]	-1.721	0.554	-2.907	-2.059	-1.667	-1.322	-0.811
##	theta[525]	-1.754	0.554	-3.032	-2.089	-1.701	-1.370	-0.836
##	theta[526]	-1.305	0.428	-2.275	-1.565	-1.268	-1.000	-0.595
	theta[527]	0.114	0.187	-0.277	-0.003	0.122	0.239	0.462
##	theta[528]	0.113	0.187	-0.272	-0.016	0.122	0.240	0.470
##	theta[529]	-1.282	0.441	-2.281	-1.533	-1.232	-0.981	-0.554
##	theta[530]	-1.682	0.593	-2.956	-2.041	-1.640	-1.267	-0.624
##	theta[531]	-1.718	0.539	-2.931	-2.043	-1.665	-1.345	-0.794
	theta[532]	-1.764	0.534	-2.972	-2.095	-1.715	-1.396	-0.867
	theta[533]	0.650	0.173	0.319	0.537	0.645	0.763	0.998
	theta[534]	-1.746	0.542	-2.947	-2.075	-1.696	-1.364	-0.831
##	theta[535]	0.592	0.169	0.275	0.478	0.591	0.701	0.928

```
## theta[536]
                  0.134
                           0.186
                                    -0.256
                                               0.013
                                                         0.143
                                                                   0.263
                                                                             0.474
## deviance
               7793.376 39.555 7717.655 7766.276 7793.111 7819.930 7873.279
##
                Rhat n.eff
               1.005
## a[1]
                        630
## a[2]
               1.006
                        430
## a[3]
               1.010
                        270
## a[4]
               1.003
                       2000
                        570
## a[5]
               1.005
## a[6]
               1.001
                       2700
               1.004
                        740
## a[7]
## a[8]
               1.021
                        140
## a[9]
               1.015
                        260
## a[10]
               1.004
                        750
## a[11]
               1.001
                       4000
## a[12]
               1.003
                       1100
## a[13]
               1.011
                        230
## a[14]
               1.004
                        690
## a[15]
               1.007
                        400
## a[16]
               1.003
                       1000
## a[17]
               1.016
                        200
## a[18]
               1.008
                        360
## a[19]
               1.007
                        390
## a[20]
               1.008
                        410
## b[1]
               1.024
                        120
## b[2]
                        100
               1.027
## b[3]
               1.030
                         89
## b[4]
               1.033
                         87
## b[5]
               1.013
                        210
## b[6]
               1.007
                        390
## b[7]
               1.027
                         98
## b[8]
               1.033
                        120
## b[9]
               1.019
                        160
## b[10]
               1.036
                        74
## b[11]
               1.034
                         89
## b[12]
               1.008
                        430
## b[13]
               1.042
                         64
## b[14]
               1.010
                        270
## b[15]
               1.036
                         81
## b[16]
               1.017
                        160
                         76
## b[17]
               1.038
## b[18]
               1.028
                         95
## b[19]
               1.037
                         74
## b[20]
               1.035
                         77
               1.002
                       1600
## c[1]
## c[2]
               1.003
                       1200
## c[3]
               1.004
                        910
## c[4]
               1.001
                       4000
## c[5]
               1.006
                        510
## c[6]
               1.001
                       2900
## c[7]
               1.003
                       1100
## c[8]
               1.040
                        200
## c[9]
               1.036
                        140
## c[10]
               1.001
                       4000
                        800
## c[11]
               1.004
```

```
## c[12]
               1.001
                       3600
## c[13]
               1.004
                        820
## c[14]
               1.002
                       2200
## c[15]
               1.002
                       4000
## c[16]
               1.006
                        570
               1.009
## c[17]
                        590
## c[18]
               1.007
                        580
## c[19]
               1.003
                       1200
## c[20]
               1.006
                        830
## theta[1]
               1.002
                       1300
## theta[2]
               1.002
                       2000
## theta[3]
               1.006
                        490
## theta[4]
               1.008
                        350
## theta[5]
               1.001
                       2700
## theta[6]
               1.001
                       3700
## theta[7]
               1.002
                       1500
## theta[8]
               1.002
                       2500
## theta[9]
               1.002
                       2000
## theta[10]
               1.002
                       2300
## theta[11]
               1.005
                        590
## theta[12]
               1.011
                        250
## theta[13]
               1.002
                       1500
## theta[14]
               1.004
                        860
## theta[15]
               1.002
                       2000
## theta[16]
               1.003
                       1100
## theta[17]
               1.002
                       2300
## theta[18]
               1.003
                       1200
               1.001
##
  theta[19]
                       4000
  theta[20]
               1.002
                       1900
## theta[21]
               1.006
                        510
## theta[22]
               1.008
                        350
## theta[23]
               1.005
                        630
  theta[24]
               1.005
                        520
## theta[25]
               1.008
                        320
## theta[26]
               1.004
                        720
## theta[27]
               1.003
                       1100
## theta[28]
               1.001
                       4000
## theta[29]
               1.002
                       1700
## theta[30]
               1.002
                       1500
## theta[31]
               1.004
                        740
## theta[32]
               1.003
                        920
## theta[33]
               1.006
                        660
## theta[34]
               1.004
                        790
## theta[35]
               1.004
                        730
## theta[36]
               1.008
                        350
## theta[37]
               1.005
                        530
## theta[38]
               1.004
                        730
## theta[39]
                        360
               1.007
## theta[40]
               1.002
                       1500
## theta[41]
               1.003
                       1200
##
  theta[42]
               1.001
                       4000
## theta[43]
               1.005
                        550
               1.003
## theta[44]
                       1800
## theta[45]
               1.003
                        980
```

```
## theta[46]
               1.009
                        420
## theta[47]
                      1700
               1.002
## theta[48]
               1.002
                       2000
## theta[49]
               1.006
                        440
## theta[50]
               1.013
                        210
## theta[51]
               1.001
                       4000
## theta[52]
               1.006
                        500
## theta[53]
               1.003
                       1100
## theta[54]
               1.007
                        410
## theta[55]
               1.007
                        460
## theta[56]
               1.004
                        730
## theta[57]
               1.003
                       1200
## theta[58]
               1.004
                        790
## theta[59]
               1.004
                        880
## theta[60]
               1.002
                       2200
## theta[61]
               1.003
                        970
## theta[62]
               1.004
                        830
## theta[63]
               1.003
                        890
               1.010
## theta[64]
                        380
## theta[65]
               1.003
                       1200
## theta[66]
               1.008
                        340
## theta[67]
               1.004
                        780
## theta[68]
               1.002
                       4000
## theta[69]
               1.002
                       1800
## theta[70]
               1.006
                        480
## theta[71]
               1.001
                      4000
## theta[72]
               1.002
                       1800
               1.001
## theta[73]
                       2900
## theta[74]
               1.001
                       4000
## theta[75]
               1.001
                       3500
## theta[76]
               1.001
                       4000
## theta[77]
               1.002
                       2100
  theta[78]
               1.001
                       4000
## theta[79]
               1.004
                        670
## theta[80]
               1.005
                        570
               1.002
## theta[81]
                       2000
## theta[82]
               1.005
                       1300
## theta[83]
               1.001
                       4000
## theta[84]
               1.009
                        280
## theta[85]
               1.005
                        530
## theta[86]
               1.006
                        420
## theta[87]
               1.005
                        520
## theta[88]
               1.003
                        910
## theta[89]
               1.002
                       1900
## theta[90]
               1.004
                        690
## theta[91]
               1.005
                        530
## theta[92]
               1.003
                       1400
                       1300
## theta[93]
               1.002
## theta[94]
               1.004
                        740
## theta[95]
               1.002
                       1800
## theta[96]
               1.004
                        810
## theta[97]
               1.007
                        390
## theta[98]
               1.004
                        710
## theta[99]
               1.008
                        360
```

```
## theta[100] 1.002
## theta[101] 1.003
                     1100
## theta[102] 1.001
                      4000
## theta[103] 1.002
                      1600
## theta[104] 1.004
                       760
## theta[105] 1.005
                       620
## theta[106] 1.003
                       890
## theta[107] 1.002
                      1900
## theta[108] 1.002
                      1900
## theta[109] 1.008
                       330
## theta[110] 1.005
                       510
## theta[111] 1.003
                      1000
## theta[112] 1.004
                       650
## theta[113] 1.004
                       790
## theta[114] 1.001
                      4000
## theta[115] 1.007
                       390
## theta[116] 1.001
                      2500
## theta[117] 1.001
                      3800
## theta[118] 1.004
                      810
## theta[119] 1.005
                       680
## theta[120] 1.001
                      3600
## theta[121] 1.002
                      2400
## theta[122] 1.006
                       470
## theta[123] 1.001
                      4000
## theta[124] 1.003
                       980
## theta[125] 1.007
                       410
## theta[126] 1.006
                       630
## theta[127] 1.004
                       750
## theta[128] 1.007
                       450
## theta[129] 1.004
                       730
## theta[130] 1.005
                       580
## theta[131] 1.002
                      1300
## theta[132] 1.006
                       420
## theta[133] 1.005
                       650
## theta[134] 1.003
                      1200
## theta[135] 1.002
                      2400
## theta[136] 1.010
                       420
## theta[137] 1.004
                       780
## theta[138] 1.004
                       760
## theta[139] 1.002
                      2400
## theta[140] 1.004
                       690
## theta[141] 1.005
                       760
## theta[142] 1.002
                      1500
## theta[143] 1.003
                       960
## theta[144] 1.001
                      4000
## theta[145] 1.004
                       770
## theta[146] 1.003
                       960
## theta[147] 1.005
                       570
## theta[148] 1.005
                       590
## theta[149] 1.004
                       760
## theta[150] 1.002
                      4000
## theta[151] 1.011
                       260
## theta[152] 1.004
                       730
## theta[153] 1.006
                       450
```

```
## theta[154] 1.007
## theta[155] 1.009
                       350
## theta[156] 1.007
                       380
## theta[157] 1.015
                       190
## theta[158] 1.006
                       430
## theta[159] 1.006
                       440
## theta[160] 1.009
                       310
## theta[161] 1.005
                       600
## theta[162] 1.002
                      1700
## theta[163] 1.001
                      4000
## theta[164] 1.009
                       300
## theta[165] 1.003
                      1100
## theta[166] 1.004
                       640
## theta[167] 1.005
                       540
## theta[168] 1.003
                       960
## theta[169] 1.003
                       980
                      1100
## theta[170] 1.003
## theta[171] 1.004
                       640
## theta[172] 1.005
                       570
## theta[173] 1.001
                      4000
## theta[174] 1.001
                      4000
## theta[175] 1.001
                      3200
## theta[176] 1.001
                      4000
## theta[177] 1.007
                       400
## theta[178] 1.003
                      1200
## theta[179] 1.007
                       400
## theta[180] 1.004
                       720
## theta[181] 1.003
                      1100
## theta[182] 1.006
                       530
## theta[183] 1.002
                      2200
## theta[184] 1.002
                      1400
## theta[185] 1.002
                      1400
## theta[186] 1.004
                       770
## theta[187] 1.003
                       930
## theta[188] 1.004
                       790
## theta[189] 1.002
                     2100
## theta[190] 1.002
## theta[191] 1.008
                       350
## theta[192] 1.003
                       970
## theta[193] 1.002
                      1300
## theta[194] 1.005
                       530
## theta[195] 1.003
                       950
## theta[196] 1.005
                       580
## theta[197] 1.006
                       440
## theta[198] 1.002
                      2000
## theta[199] 1.001
                      2600
## theta[200] 1.006
                       460
## theta[201] 1.001
                      3200
## theta[202] 1.010
                       280
## theta[203] 1.012
                       340
## theta[204] 1.005
                       710
## theta[205] 1.003
                      1200
## theta[206] 1.003
                       850
## theta[207] 1.009
                       300
```

```
## theta[208] 1.003
## theta[209] 1.006
                       430
## theta[210] 1.003
                      1100
## theta[211] 1.003
                       880
## theta[212] 1.006
                       470
## theta[213] 1.001
                      4000
## theta[214] 1.009
                       290
## theta[215] 1.012
                       410
## theta[216] 1.001
                      3200
## theta[217] 1.004
                       710
## theta[218] 1.005
                       600
## theta[219] 1.003
                       870
## theta[220] 1.006
                       430
## theta[221] 1.005
                       600
## theta[222] 1.006
                       470
## theta[223] 1.001
                      3300
## theta[224] 1.004
                       770
## theta[225] 1.004
                       870
## theta[226] 1.003
                       880
## theta[227] 1.001
                      4000
## theta[228] 1.005
                       560
## theta[229] 1.006
                       490
## theta[230] 1.006
                       430
## theta[231] 1.002
                      1500
## theta[232] 1.010
                       270
## theta[233] 1.002
                     1300
## theta[234] 1.003
                      1200
## theta[235] 1.005
                       620
## theta[236] 1.005
                       630
## theta[237] 1.009
                       310
## theta[238] 1.004
                       820
## theta[239] 1.001
                      3100
## theta[240] 1.004
                       770
## theta[241] 1.005
                       640
## theta[242] 1.006
                       440
## theta[243] 1.007
                       390
## theta[244] 1.005
## theta[245] 1.002
                     2100
## theta[246] 1.001
                      3200
## theta[247] 1.005
                       520
## theta[248] 1.003
                     1100
## theta[249] 1.001
                     4000
## theta[250] 1.001
                      2800
## theta[251] 1.001
                     2900
## theta[252] 1.006
                       490
## theta[253] 1.001
                      4000
## theta[254] 1.003
                      1400
## theta[255] 1.001
                     3100
## theta[256] 1.007
                      500
## theta[257] 1.004
                      1100
## theta[258] 1.005
                       550
## theta[259] 1.005
                       520
## theta[260] 1.010
                       280
## theta[261] 1.003
                     1100
```

```
## theta[262] 1.007
## theta[263] 1.011
                       240
                      3800
## theta[264] 1.001
## theta[265] 1.003
                      1100
## theta[266] 1.004
                       810
## theta[267] 1.004
                       760
## theta[268] 1.004
                       720
## theta[269] 1.007
                       390
## theta[270] 1.007
                       420
## theta[271] 1.003
                      1300
## theta[272] 1.008
                       320
## theta[273] 1.007
                       420
## theta[274] 1.003
                      1100
## theta[275] 1.002
                      1600
## theta[276] 1.007
                       370
## theta[277] 1.005
                       610
## theta[278] 1.002
                      1300
## theta[279] 1.004
                       770
## theta[280] 1.002
                     3800
## theta[281] 1.009
                       290
## theta[282] 1.002
                      1800
## theta[283] 1.006
                       490
## theta[284] 1.003
                      1100
## theta[285] 1.009
                       300
## theta[286] 1.002
                      4000
## theta[287] 1.005
                       650
## theta[288] 1.006
                       470
## theta[289] 1.007
                       420
## theta[290] 1.006
                       490
## theta[291] 1.003
                      1000
## theta[292] 1.003
                       920
## theta[293] 1.008
                       330
## theta[294] 1.003
                      1100
## theta[295] 1.004
                       640
## theta[296] 1.001
                      4000
## theta[297] 1.001
                      4000
## theta[298] 1.006
## theta[299] 1.001
                      4000
## theta[300] 1.008
                       370
## theta[301] 1.003
                      1000
## theta[302] 1.012
                       240
## theta[303] 1.010
                       260
## theta[304] 1.005
                       550
## theta[305] 1.002
                      2000
## theta[306] 1.006
                       500
## theta[307] 1.002
                      1600
## theta[308] 1.002
                      1600
## theta[309] 1.003
                       850
## theta[310] 1.006
                       440
## theta[311] 1.002
                      1300
## theta[312] 1.002
                      2500
## theta[313] 1.003
                     1100
## theta[314] 1.002
                      1700
## theta[315] 1.003
                       840
```

```
## theta[316] 1.005
## theta[317] 1.001
                     4000
## theta[318] 1.007
                       400
## theta[319] 1.005
                       540
## theta[320] 1.002
                      1500
## theta[321] 1.003
                      1000
## theta[322] 1.008
                       360
## theta[323] 1.004
                       800
## theta[324] 1.005
                       560
## theta[325] 1.006
                       520
## theta[326] 1.002
                      1800
## theta[327] 1.001
                      4000
## theta[328] 1.002
                      1500
## theta[329] 1.007
                       390
## theta[330] 1.006
                       440
## theta[331] 1.004
                      1100
## theta[332] 1.006
                       490
## theta[333] 1.001
                      4000
## theta[334] 1.002
                     2400
## theta[335] 1.007
                       380
## theta[336] 1.006
                       510
## theta[337] 1.002
                      1600
## theta[338] 1.005
                       620
## theta[339] 1.004
                       640
## theta[340] 1.002
                      1800
## theta[341] 1.005
                       550
## theta[342] 1.001
                      4000
## theta[343] 1.001
                      2600
## theta[344] 1.005
                       620
## theta[345] 1.001
                      4000
## theta[346] 1.002
                      1400
## theta[347] 1.006
                       450
## theta[348] 1.004
                       750
## theta[349] 1.002
                     2200
## theta[350] 1.015
                       190
## theta[351] 1.002
                      1800
## theta[352] 1.002
## theta[353] 1.002
                      1700
## theta[354] 1.003
                      1100
## theta[355] 1.005
                       750
## theta[356] 1.005
                       520
## theta[357] 1.002
                      1600
## theta[358] 1.002
                      1600
## theta[359] 1.006
                       500
## theta[360] 1.007
                       390
## theta[361] 1.005
                       610
## theta[362] 1.003
                      1000
## theta[363] 1.006
                       480
## theta[364] 1.002
                      1300
## theta[365] 1.021
                       480
## theta[366] 1.005
                       580
## theta[367] 1.004
                       740
## theta[368] 1.004
                       690
## theta[369] 1.004
                       690
```

```
## theta[370] 1.006
## theta[371] 1.003
                     1100
## theta[372] 1.003
                      1100
## theta[373] 1.004
                      1700
## theta[374] 1.008
                       330
## theta[375] 1.004
                       720
## theta[376] 1.010
                       320
## theta[377] 1.002
                      1800
## theta[378] 1.005
                       580
## theta[379] 1.008
                       320
## theta[380] 1.001
                      2600
## theta[381] 1.001
                      4000
## theta[382] 1.004
                       670
## theta[383] 1.010
                       360
## theta[384] 1.007
                       360
## theta[385] 1.002
                      1800
## theta[386] 1.004
                       710
## theta[387] 1.003
                       900
## theta[388] 1.007
                       410
## theta[389] 1.009
                       330
## theta[390] 1.005
                       560
## theta[391] 1.004
                      1100
## theta[392] 1.003
                      1200
## theta[393] 1.002
                      1600
## theta[394] 1.003
                      1200
## theta[395] 1.001
                      2900
## theta[396] 1.002
                     1400
## theta[397] 1.002
                      1300
## theta[398] 1.003
                      1200
## theta[399] 1.001
                      4000
## theta[400] 1.003
                       990
## theta[401] 1.008
                       330
## theta[402] 1.008
                       340
## theta[403] 1.003
                       850
## theta[404] 1.003
                      1100
## theta[405] 1.017
                       200
## theta[406] 1.001
                      2900
## theta[407] 1.006
                       490
## theta[408] 1.003
                      1200
## theta[409] 1.010
                       270
## theta[410] 1.004
                       690
## theta[411] 1.004
                       820
## theta[412] 1.003
                       990
## theta[413] 1.001
                      4000
## theta[414] 1.002
                      2500
## theta[415] 1.002
                      2800
## theta[416] 1.001
                     4000
## theta[417] 1.002
                      2100
## theta[418] 1.003
                      1000
## theta[419] 1.005
                       570
## theta[420] 1.004
                       650
## theta[421] 1.001
                      4000
## theta[422] 1.006
                       500
## theta[423] 1.001
                     4000
```

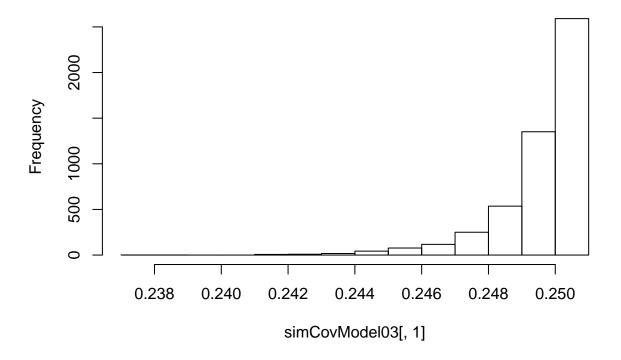
```
## theta[424] 1.005
## theta[425] 1.002
                     2200
## theta[426] 1.001
                     4000
## theta[427] 1.002
                     2400
## theta[428] 1.006
                       470
## theta[429] 1.002
                     1300
## theta[430] 1.003
                      1400
## theta[431] 1.001
                      4000
## theta[432] 1.012
                       290
## theta[433] 1.003
                      1400
## theta[434] 1.007
                       360
## theta[435] 1.001
                      4000
## theta[436] 1.003
                       940
## theta[437] 1.003
                       870
## theta[438] 1.004
                       730
## theta[439] 1.006
                       510
## theta[440] 1.003
                      1200
## theta[441] 1.003
                       950
## theta[442] 1.004
                      1900
## theta[443] 1.010
                       270
## theta[444] 1.011
                       240
## theta[445] 1.004
                      1000
## theta[446] 1.002
                      1800
## theta[447] 1.007
                       400
## theta[448] 1.005
                       590
## theta[449] 1.005
                       590
## theta[450] 1.004
                       820
## theta[451] 1.001
                     4000
## theta[452] 1.003
                      1700
## theta[453] 1.002
                      2400
## theta[454] 1.002
                      1700
## theta[455] 1.004
                      1200
## theta[456] 1.004
                       670
## theta[457] 1.002
                     1700
## theta[458] 1.005
                       600
## theta[459] 1.004
                       650
## theta[460] 1.005
                       520
## theta[461] 1.005
                       540
## theta[462] 1.003
                      1200
## theta[463] 1.001
                      4000
## theta[464] 1.003
                       860
## theta[465] 1.012
                       220
## theta[466] 1.007
                       420
## theta[467] 1.004
                       790
## theta[468] 1.003
                      2600
## theta[469] 1.003
                      1100
## theta[470] 1.003
                       930
## theta[471] 1.010
                       270
## theta[472] 1.012
                       270
## theta[473] 1.007
                       410
## theta[474] 1.008
                       500
## theta[475] 1.004
                       650
## theta[476] 1.008
                       360
## theta[477] 1.005
                       530
```

```
## theta[478] 1.010
## theta[479] 1.002
                     1600
## theta[480] 1.005
                       550
## theta[481] 1.004
                       670
## theta[482] 1.003
                      1200
## theta[483] 1.005
                       570
## theta[484] 1.002
                      1300
## theta[485] 1.008
                       340
## theta[486] 1.004
                       640
## theta[487] 1.005
                       550
## theta[488] 1.007
                       460
## theta[489] 1.009
                       480
## theta[490] 1.004
                       750
## theta[491] 1.002
                      1500
## theta[492] 1.003
                       900
## theta[493] 1.001
                      4000
## theta[494] 1.006
                       480
## theta[495] 1.003
                       920
## theta[496] 1.006
                       430
## theta[497] 1.003
                       900
## theta[498] 1.003
                       910
## theta[499] 1.001
                      4000
## theta[500] 1.001
                      3300
## theta[501] 1.004
                       800
## theta[502] 1.003
                     1200
## theta[503] 1.001
                     4000
## theta[504] 1.002
                      2200
## theta[505] 1.002
                      1600
## theta[506] 1.001
                     4000
## theta[507] 1.002
                      1800
## theta[508] 1.003
                       840
## theta[509] 1.003
                       940
## theta[510] 1.001
                      3400
## theta[511] 1.001
                      2600
## theta[512] 1.003
                      1100
## theta[513] 1.008
                       420
## theta[514] 1.004
                       750
## theta[515] 1.004
                       800
## theta[516] 1.001
                      2600
## theta[517] 1.001
                      4000
## theta[518] 1.007
                       400
## theta[519] 1.001
                     4000
## theta[520] 1.009
                       290
## theta[521] 1.004
                      1200
## theta[522] 1.003
                      1200
## theta[523] 1.002
                      4000
## theta[524] 1.002
                      2400
## theta[525] 1.003
                      1000
## theta[526] 1.003
                      1100
## theta[527] 1.005
                       580
## theta[528] 1.003
                       980
## theta[529] 1.001
                      4000
## theta[530] 1.001
                     3900
## theta[531] 1.001
                     3700
```

```
## theta[532] 1.003 1100
## theta[533] 1.018
                     230
## theta[534] 1.005 1200
## theta[535] 1.006
                     430
## theta[536] 1.005
                      530
## deviance 1.010
                      280
## For each parameter, n.eff is a crude measure of effective sample size,
## and Rhat is the potential scale reduction factor (at convergence, Rhat=1).
## DIC info (using the rule, pD = var(deviance)/2)
## pD = 774.4 and DIC = 8567.8
## DIC is an estimate of expected predictive error (lower deviance is better).
As Model 3 is very different from Models 1 and 2, we need still more goodness of fit checking:
# list number of simulated data sets
nSimulatedDataSets = 5000
# create one large matrix of posterior values
model03.Posterior.all = model03.r2jags$BUGSoutput$sims.matrix
dim(model03.Posterior.all)
## [1] 4000 597
# determine columns of posterior that go into each model matrix
aCols = 1:20
bCols = grep(x = colnames(model03.Posterior.all), pattern = "b\\[")
cCols = grep(x = colnames(model03.Posterior.all), pattern = "c\\[")
# save simulated covariances:
simCovModel03 = matrix(data = NA, nrow = nSimulatedDataSets, ncol = nItems*nItems)
# loop through data sets (can be sped up with functions and lapply)
pb = txtProgressBar()
sim = 1
for (sim in 1:nSimulatedDataSets){
  # draw sample from one iteration of posterior chain
  iternum = sample(x = 1:nrow(model03.Posterior.all), size = 1, replace = TRUE)
  # get parameters for that sample: put into factor model matrices for easier generation of data
  a = matrix(data = model03.Posterior.all[iternum, aCols], ncol = 1)
  b = matrix(data = model03.Posterior.all[iternum, bCols], ncol = 1)
  c = matrix(data = model03.Posterior.all[iternum, cCols], ncol = 1)
  mu = -1*a*b
  # generate sample of thetas from theta distribution
  theta = matrix(data = rnorm(n = nrow(FSdata), mean = 0, sd = 1), nrow = nrow(FSdata), ncol = 1)
  # calculate predicted probits:
  probits = matrix(data = 1, nrow = nrow(FSdata), ncol = 1) %*% t(mu) + theta %*% t(a)
  simData = probits
  i=1
```

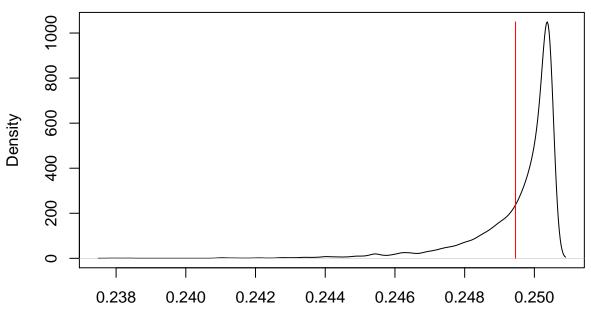
```
for (i in 1:ncol(probits)){
    probits[,i] =c[i]+(1-c[i])* pnorm(probits[,i])
    simData[,i] = rbinom(n = nrow(probits), size = 1, prob = probits )
  # calculate the value of SRMR using simulated data's covariance matrix and observed covariance matrix
  simCov = cov(simData)
  simCovModel03[sim,] = c(cov(simData))
  setTxtProgressBar(pb = pb, value = sim/nSimulatedDataSets)
}
close(pb)
# label values of simCor to ensure we have the right comparison
covNames = NULL
for (i in 1:ncol(simData)){
  for (j in 1:ncol(simData)){
    covNames = c(covNames, paste0("cov", i, "." , j))
  }
}
colnames(simCovModel03) = covNames
# show how one correlation compares to distribution of simulated correlations
dataCov = cov(FSdata)
hist(simCovModel03[,1])
```

Histogram of simCovModel03[, 1]



```
plot(density(simCovModel03[,1]))
lines(x = c(dataCov[1,1], dataCov[1,1]), y = c(0, max(density(simCovModel03[,1])$y)), col = 2)
```

density.default(x = simCovModel03[, 1])



N = 5000 Bandwidth = 0.0001433

```
quantile(simCovModel03[,1])
                   25%
          0%
                             50%
                                       75%
                                                 100%
## 0.2379132 0.2492084 0.2500453 0.2503801 0.2504673
mean(simCovModel03[,1])
## [1] 0.2495363
dataCov[1,1]
## [1] 0.2494595
# create quantiles of correlations to see where each observed correlation falls
covQuantiles03 = NULL
# compute the quantiles of the observed correlations:
col = 1
for (i in 1:ncol(simData)){
  for (j in 1:ncol(simData)){
    # get empirical CDF of simulated correlation distribution
    covEcdf = ecdf(simCovModel03[,col])
    covQuantiles03 = rbind(covQuantiles03, c(i, j, summary(covEcdf), dataCov[i,j], covEcdf(dataCov[i,j]
    col = col + 1
 }
}
colnames(covQuantiles03)[1:2] = c("Item 1", "Item 2")
```

```
colnames(covQuantiles03)[9:10] = c("ObsCor", "CorPctile")
covQuantiles03[which(covQuantiles03[,10] > .975 | covQuantiles03[,10] < .025),]</pre>
```

```
##
                              Min.
                                      1st Qu.
          Item 1 Item 2
                                                 Median
                                                              Mean
                                                                     3rd Qu.
##
     [1,]
                      2 0.07102804 0.1074976 0.1174118 0.1173331 0.1271028
##
     [2,]
                      3 0.07256242 0.1078515 0.1176768 0.1174161 0.1273469
               1
##
     [3,]
                      8 0.06904729 0.1078184 0.1176629 0.1174197 0.1271168
##
     [4,]
               1
                      9 0.06868810 0.1079962 0.1177152 0.1174541 0.1273539
##
                     12 0.07074906 0.1081793 0.1177605 0.1175428 0.1271002
     [5,]
                      1 0.07102804 0.1074976 0.1174118 0.1173331 0.1271028
##
     [6,]
               2
                      2 0.23618357 0.2438677 0.2475345 0.2464448 0.2497332
##
     [7,]
##
     [8,]
               2
                      3 0.06765239 0.1082491 0.1177675 0.1176325 0.1275771
##
     [9,]
               2
                      8 0.07292858 0.1078472 0.1177030 0.1175283 0.1273643
               2
                      9 0.07091645 0.1083563 0.1181040 0.1178914 0.1277819
##
    [10,]
               3
                      1 0.07256242 0.1078515 0.1176768 0.1174161 0.1273469
##
    [11,]
               3
##
    [12,]
                      2 0.06765239 0.1082491 0.1177675 0.1176325 0.1275771
    [13,]
               3
                      8 0.07245432 0.1076292 0.1175251 0.1174279 0.1273024
##
    [14,]
               3
                      9 0.07680290 0.1080799 0.1178093 0.1175130 0.1272841
##
    [15,]
               3
                     12 0.06915888 0.1072325 0.1175373 0.1171736 0.1270993
##
               3
                     15 0.07102804 0.1084810 0.1178302 0.1177543 0.1271551
    [16,]
##
    [17,]
               4
                      5 0.06921467 0.1076824 0.1175199 0.1174295 0.1272179
                      6 0.06934021 0.1076231 0.1175373 0.1174364 0.1271725
##
    [18,]
               4
##
    [19,]
               4
                      9 0.07004464 0.1081322 0.1176733 0.1174388 0.1270400
##
    [20,]
                     11 0.06341889 0.1077582 0.1176472 0.1172787 0.1272623
                     12 0.07457107 0.1076623 0.1176716 0.1173975 0.1272083
    [21,]
##
    [22,]
                     14 0.06448598 0.1076754 0.1174153 0.1171040 0.1268369
##
               4
                     16 0.06441624 0.1082020 0.1177989 0.1175740 0.1273120
##
    [23,]
    [24.]
               5
                      4 0.06921467 0.1076824 0.1175199 0.1174295 0.1272179
##
    [25,]
               5
                      5 0.23791324 0.2445329 0.2478292 0.2468764 0.2498073
##
    [26,]
               5
                      6 0.07199749 0.1078855 0.1175321 0.1174767 0.1274690
##
               5
                      7 0.07018413 0.1073267 0.1172932 0.1170961 0.1269337
    [27,]
               5
                      8 0.06799414 0.1076702 0.1175774 0.1175138 0.1273234
    [28,]
               5
##
    [29,]
                      9 0.07289720 0.1081758 0.1178547 0.1174447 0.1270958
##
    [30,]
               5
                     11 0.07460943 0.1078602 0.1175303 0.1174799 0.1272179
    [31,]
##
               5
                     12 0.07080485 0.1076336 0.1175373 0.1174626 0.1271621
##
    [32,]
               5
                     13 0.06621565 0.1073947 0.1171921 0.1170698 0.1266957
    [33,]
               5
                     14 0.06465337 0.1075281 0.1177082 0.1174291 0.1273051
##
##
    [34,]
               5
                     16 0.06944134 0.1076440 0.1175617 0.1173443 0.1272179
                     17 0.07052588 0.1077382 0.1177186 0.1173057 0.1270575
##
    [35,]
               5
    [36,]
               5
                     18 0.06923211 0.1078393 0.1174606 0.1173590 0.1271098
##
##
    [37,]
               5
                     19 0.06837076 0.1081497 0.1175896 0.1175075 0.1273016
               5
                     20 0.06441624 0.1074575 0.1175094 0.1172531 0.1270723
##
    [38,]
##
    [39,]
               6
                      4 0.06934021 0.1076231 0.1175373 0.1174364 0.1271725
##
    [40,]
               6
                      5 0.07199749 0.1078855 0.1175321 0.1174767 0.1274690
    [41,]
                      6 0.23832822 0.2445329 0.2478292 0.2468503 0.2498073
##
               6
##
    [42,]
               6
                      7 0.06741177 0.1074330 0.1174362 0.1171288 0.1269694
    [43,]
               6
                      8 0.07164877 0.1075917 0.1175443 0.1173347 0.1272998
               6
                      9 0.05770679 0.1080660 0.1173490 0.1173439 0.1271412
##
    [44,]
                     10 0.07467569 0.1080538 0.1179314 0.1175948 0.1275126
##
    [45,]
               6
##
    [46,]
               6
                     11 0.06438136 0.1079858 0.1175059 0.1172081 0.1269250
##
    [47,]
               6
                     13 0.06876831 0.1080102 0.1176594 0.1174366 0.1272074
##
    [48,]
               6
                     15 0.06770121 0.1076440 0.1174449 0.1172303 0.1271072
##
    [49,]
               6
                     17 0.06828009 0.1074941 0.1177710 0.1175170 0.1277009
                     18 0.07149881 0.1080791 0.1178390 0.1175628 0.1273234
##
    [50,]
```

```
[51,]
                      19 0.06728623 0.1079178 0.1176280 0.1174111 0.1273835
##
##
    ſ52.1
                      20 0.07102804 0.1079927 0.1178128 0.1175400 0.1273120
               6
##
    [53,]
               7
                      5 0.07018413 0.1073267 0.1172932 0.1170961 0.1269337
                      6 0.06741177 0.1074330 0.1174362 0.1171288 0.1269694
##
    [54,]
    [55,]
               7
                      7 0.23618357 0.2440935 0.2476339 0.2465530 0.2497585
##
               7
                      8 0.06763844 0.1075603 0.1174222 0.1172622 0.1271970
    [56,]
               7
                      9 0.07473497 0.1080224 0.1177605 0.1174688 0.1271682
    [57.]
               7
                     12 0.06447901 0.1078149 0.1176315 0.1173460 0.1271098
##
    [58,]
##
    [59.]
               7
                      14 0.06383736 0.1076414 0.1177518 0.1172560 0.1270950
##
                     15 0.07233924 0.1079091 0.1175617 0.1174367 0.1270575
    [60,]
    [61,]
                      16 0.06523225 0.1080782 0.1177535 0.1175137 0.1270732
               7
                      19 0.06917631 0.1076126 0.1174606 0.1173621 0.1271359
##
    [62,]
##
    [63,]
               8
                      1 0.06904729 0.1078184 0.1176629 0.1174197 0.1271168
##
               8
                      2 0.07292858 0.1078472 0.1177030 0.1175283 0.1273643
    [64,]
##
    [65,]
               8
                      3 0.07245432 0.1076292 0.1175251 0.1174279 0.1273024
##
    [66,]
               8
                      5 0.06799414 0.1076702 0.1175774 0.1175138 0.1273234
##
    [67,]
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    [89,] 0.1626098 0.03438764
                                   0.0000
##
    [90,] 0.2504673 0.22870345
                                   0.0000
##
    [91,] 0.1568524 0.05847747
                                   0.0000
##
    [92,] 0.1557958 0.04778212
                                   0.0000
##
    [93,] 0.1638025 0.05396499
                                   0.0000
    [94,] 0.1580067 0.06114521
##
                                   0.0002
##
    [95,] 0.1613475 0.07188938
                                   0.0004
##
    [96,] 0.1599107 0.06417213
                                   0.0000
    [97,] 0.1683185 0.07013879
                                   0.0004
    [98,] 0.1604861 0.06318873
##
                                   0.0000
    [99,] 0.1562282 0.05888897
                                   0.0000
  [100,] 0.1700028 0.05707212
                                   0.0000
   [101,] 0.1597956 0.05055796
                                   0.0000
   [102,] 0.1658809 0.05994560
                                   0.0000
## [103,] 0.1601583 0.06660273
                                   0.0000
## [104,] 0.1568524 0.05847747
                                   0.0000
   [105,] 0.2504673 0.23662645
                                   0.0002
   [106,] 0.1597643 0.16047566
                                   1.0000
                                   0.0034
  [107,] 0.1642349 0.08122820
## [108,] 0.1588506 0.08595690
                                   0.0102
## [109,] 0.1569780 0.08661947
                                   0.0108
## [110,] 0.1672688 0.15003487
                                   0.9956
## [111,] 0.1627110 0.16202399
                                   0.9998
## [112,] 0.1645139 0.14933045
                                   0.9962
```

```
## [113,] 0.1607477 0.07789789
                                   0.0010
## [114,] 0.1601269 0.07500349
                                   0.0014
## [115,] 0.1663691 0.07658669
                                   0.0008
## [116,] 0.1557958 0.04778212
                                   0.0000
## [117,] 0.1597643 0.16047566
                                   1.0000
## [118,] 0.1588541 0.17581253
                                   1.0000
## [119,] 0.1604791 0.15524480
                                   0.9990
## [120,] 0.1620833 0.17660762
                                   1.0000
## [121,] 0.1626064 0.09177361
                                   0.0244
## [122,] 0.1672409 0.08909192
                                   0.0154
## [123,] 0.1580695 0.06085577
                                   0.0000
## [124,] 0.1569780 0.05920282
                                   0.0000
## [125,] 0.1577975 0.07643325
                                   0.0014
## [126,] 0.1671851 0.04949435
                                   0.0000
## [127,] 0.1638025 0.05396499
                                   0.0000
## [128,] 0.1642349 0.08122820
                                   0.0034
## [129,] 0.2504673 0.19770889
                                   0.0000
## [130,] 0.1626587 0.06680848
                                   0.0000
## [131,] 0.1588262 0.09059144
                                   0.0208
## [132,] 0.1646952 0.08927326
                                   0.0188
## [133,] 0.1600223 0.06898452
                                   0.0000
## [134,] 0.1590040 0.08562561
                                   0.0074
## [135,] 0.1633491 0.08361696
                                   0.0062
## [136,] 0.1610894 0.04939322
                                   0.0000
## [137,] 0.1607198 0.05569117
                                   0.0000
## [138,] 0.1580067 0.06114521
                                   0.0002
## [139,] 0.1626587 0.06680848
                                   0.0000
## [140,] 0.2504673 0.20827173
                                   0.0000
## [141,] 0.1579300 0.07088157
                                   0.0006
## [142,] 0.1595760 0.07859534
                                   0.0016
## [143,] 0.1607930 0.05919584
                                   0.0000
## [144,] 0.1666620 0.06730716
                                   0.0002
## [145,] 0.1639524 0.08876412
                                   0.0144
## [146,] 0.1553494 0.05321872
                                   0.0000
## [147,] 0.1613475 0.07188938
                                   0.0004
## [148,] 0.1588506 0.08595690
                                   0.0102
## [149,] 0.1579300 0.07088157
                                   0.0006
## [150,] 0.2504673 0.20108453
                                   0.0000
## [151,] 0.1677117 0.07690752
                                   0.0014
## [152,] 0.1607790 0.14278142
                                   0.9754
## [153,] 0.1665748 0.07413865
                                   0.0006
## [154,] 0.1618706 0.16519738
                                   1.0000
## [155,] 0.1635026 0.07654485
                                   0.0008
## [156,] 0.1599107 0.06417213
                                   0.0000
## [157,] 0.1588262 0.09059144
                                   0.0208
## [158,] 0.1568175 0.14626866
                                   0.9862
## [159,] 0.1645243 0.06366648
                                   0.0000
## [160,] 0.1697099 0.08258823
                                   0.0044
## [161,] 0.1644476 0.08238945
                                   0.0040
## [162,] 0.1589064 0.05971195
                                   0.0000
## [163,] 0.1683185 0.07013879
                                   0.0004
## [164,] 0.1569780 0.08661947
                                   0.0108
## [165,] 0.1595760 0.07859534
                                   0.0016
## [166,] 0.2504673 0.21202050
                                   0.0000
```

```
## [167,] 0.1606570 0.07566606
                                   0.0016
  [168,] 0.1635654 0.08759241
                                   0.0138
## [169,] 0.1636979 0.07948110
                                   0.0028
## [170,] 0.1632585 0.07217185
                                   0.0010
## [171,] 0.1634468 0.06996792
                                   0.0004
## [172,] 0.1604861 0.06318873
                                   0.0000
## [173,] 0.1672688 0.15003487
                                   0.9956
## [174,] 0.1588541 0.17581253
                                   1.0000
## [175,] 0.1646952 0.08927326
                                   0.0188
## [176,] 0.1568175 0.14626866
                                   0.9862
## [177,] 0.1654485 0.15580974
                                   0.9992
## [178,] 0.1577521 0.17776538
                                   1.0000
## [179,] 0.1579788 0.07369577
                                   0.0006
## [180,] 0.1585612 0.07759102
                                   0.0018
## [181,] 0.1573964 0.06395941
                                   0.0000
## [182,] 0.1562282 0.05888897
                                   0.0000
  [183,] 0.1604791 0.15524480
                                   0.9990
## [184,] 0.1654485 0.15580974
                                   0.9992
## [185,] 0.1606361 0.14702887
                                   0.9906
## [186,] 0.1560469 0.07862324
                                   0.0012
## [187,] 0.1639734 0.05433115
                                   0.0000
## [188,] 0.1669654 0.14340912
                                   0.9800
## [189,] 0.1611592 0.05945739
                                   0.0000
## [190,] 0.1700028 0.05707212
                                   0.0000
## [191,] 0.1600223 0.06898452
                                   0.0000
## [192,] 0.1677117 0.07690752
                                   0.0014
## [193,] 0.1606570 0.07566606
                                   0.0016
## [194,] 0.2504673 0.21418608
                                   0.0000
## [195,] 0.1664946 0.14385549
                                   0.9842
## [196,] 0.1629865 0.07732599
                                   0.0012
## [197,] 0.1598061 0.06186358
                                   0.0000
## [198,] 0.1616753 0.07082578
                                   0.0000
## [199,] 0.1597956 0.05055796
                                   0.0000
## [200,] 0.1627110 0.16202399
                                   0.9998
  [201,] 0.1620833 0.17660762
                                   1.0000
## [202,] 0.1590040 0.08562561
                                   0.0074
## [203,] 0.1635654 0.08759241
                                   0.0138
## [204,] 0.1577521 0.17776538
                                   1.0000
## [205,] 0.1606361 0.14702887
                                   0.9906
## [206,] 0.1664946 0.14385549
                                   0.9842
## [207,] 0.2504673 0.23873623
                                   0.0002
```

Multidimensional IRT

The example from this class can be expanded to a confirmatory multidimensional IRT model. These items were from an assessment that purported to measure multiple dimensions, which are denoted in the FSQmatrix object:

FSQmatrix

##		alpha1	alpha2	alpha3	alpha4	alpha5	alpha6	alpha7	alpha8
##	Item1	0	0	0	1	0	1	1	0
##	Item2	0	0	0	1	0	0	1	0
##	Item3	0	0	0	1	0	0	1	0

```
## Item4
                    0
                                               0
                                                         1
                                                                  0
                                                                            1
                                                                                     0
                             1
                                      1
                                      0
                                                         0
                                                                           1
## Item5
                    0
                             1
                                                1
                                                                  0
                                                                                     1
## Item6
                    0
                             0
                                      0
                                                0
                                                         0
                                                                  0
                                                                           1
                                                                                     0
                                                                                     0
## Item7
                    1
                             1
                                      0
                                               0
                                                         0
                                                                  0
                                                                           1
## Item8
                    0
                             0
                                      0
                                               0
                                                         0
                                                                  0
                                                                           1
                                                                                     0
## Item9
                    0
                             1
                                      0
                                               0
                                                         0
                                                                  0
                                                                           0
                                                                                     0
                                      0
                                                0
## Item10
                    0
                             1
                                                         1
                                                                  0
                                                                           1
                                                                                     1
## Item11
                    0
                             1
                                      0
                                               0
                                                         1
                                                                  0
                                                                            1
                                                                                     0
## Item12
                    0
                             0
                                      0
                                                0
                                                         0
                                                                  0
                                                                            1
                                                                                     1
                                      0
                                                                  0
                                                                                     0
## Item13
                    0
                             1
                                                1
                                                         1
                                                                            1
## Item14
                    0
                             1
                                      0
                                                0
                                                         0
                                                                  0
                                                                            1
                                                                                     0
## Item15
                             0
                                      0
                                               0
                                                         0
                                                                  0
                                                                                     0
                    1
                                                                            1
## Item16
                    0
                             1
                                      0
                                               0
                                                         0
                                                                  0
                                                                           1
                                                                                     0
                                                                  0
                                                                                     0
## Item17
                    0
                             1
                                      0
                                                0
                                                         1
                                                                            1
## Item18
                    0
                                      0
                                               0
                                                         1
                                                                  1
                                                                                     0
                             1
                                                                            1
## Item19
                    1
                             1
                                      1
                                                0
                                                         1
                                                                  0
                                                                            1
                                                                                     0
                                                0
                                                         1
                                                                  0
                                                                                     0
## Item20
                    0
                             1
                                      1
                                                                            1
```

We will code this into the example and attempt to estimate an eight-dimensional MIRT model. Here, we will use the slope/intercept form as this will allow us to use an inverse wishart distribution for the covariance matrix of the factors (thetas). Here, the loading for the first item for each factor will be set to one to identify the theta variance.

```
# marker i.t.em:
model04.function = function(){
  # measurement model specification
    for (person in 1:N){
      X[person, 1] ~ dbern(phi(mu[1] + lambda[1,4]*theta[person,4] + lambda[1,6]*theta[person,6] +
                               lambda[1,7]*theta[person,7]))
      X[person, 2] ~ dbern(phi(mu[2] + lambda[2,4]*theta[person,4] + lambda[2,7]*theta[person,7]))
      X[person, 3] ~ dbern(phi(mu[3] + lambda[3,4]*theta[person,4] + lambda[3,7]*theta[person,7]))
      X[person, 4] ~ dbern(phi(mu[4] + lambda[4,2]*theta[person,2] + lambda[4,3]*theta[person,3] +
                               lambda[4,5]*theta[person,5] + lambda[4,7]*theta[person,7]))
      X[person, 5] ~ dbern(phi(mu[5] + lambda[5,2]*theta[person,2] + lambda[5,4]*theta[person,4] +
                               lambda[5,7]*theta[person,7] + lambda[5,8]*theta[person,8]))
      X[person, 6] ~ dbern(phi(mu[6] + lambda[6,7]*theta[person,7]))
      X[person, 7] ~ dbern(phi(mu[7] + lambda[7,1]*theta[person,1] + lambda[7,2]*theta[person,2] +
                               lambda[7,7]*theta[person,7]))
      X[person, 8] ~ dbern(phi(mu[8] + lambda[8,7]*theta[person,7]))
      X[person, 9] ~ dbern(phi(mu[9] + lambda[9,2]*theta[person,2]))
      X[person,10] ~ dbern(phi(mu[10] + lambda[10,2]*theta[person,2] + lambda[10,5]*theta[person,5] +
                               lambda[10,7]*theta[person,7] + lambda[10,8]*theta[person,8]))
      X[person,11] ~ dbern(phi(mu[11] + lambda[11,2]*theta[person,2] + lambda[11,5]*theta[person,5] +
                               lambda[11,7]*theta[person,7]))
      X[person,12] ~ dbern(phi(mu[12] + lambda[12,7]*theta[person,7] + lambda[12,8]*theta[person,8]))
      X[person,13] ~ dbern(phi(mu[13] + lambda[13,2]*theta[person,2] + lambda[13,4]*theta[person,4] +
                               lambda[13,5]*theta[person,5] + lambda[13,7]*theta[person,7]))
      X[person,14] ~ dbern(phi(mu[14] + lambda[14,2]*theta[person,2] + lambda[14,7]*theta[person,7]))
      X[person,15] ~ dbern(phi(mu[15] + lambda[15,1]*theta[person,1] + lambda[15,7]*theta[person,7]))
     X[person,16] ~ dbern(phi(mu[16] + lambda[16,2]*theta[person,2] + lambda[16,7]*theta[person,7]))
      X[person,17] ~ dbern(phi(mu[17] + lambda[17,2]*theta[person,2] + lambda[17,5]*theta[person,5] +
                               lambda[17,7]*theta[person,7]))
```

```
X[person,18] ~ dbern(phi(mu[18] + lambda[18,2]*theta[person,2] + lambda[18,5]*theta[person,5] +
                             lambda[18,6]*theta[person,6] + lambda[18,7]*theta[person,7]))
    X[person,19] ~ dbern(phi(mu[19] + lambda[19,1]*theta[person,1] + lambda[19,2]*theta[person,2] +
                             lambda[19,3]*theta[person,3] + lambda[19,5]*theta[person,5] +
                             lambda[19,7]*theta[person,7]))
    X[person,20] ~ dbern(phi(mu[20] + lambda[20,2]*theta[person,2] + lambda[20,3]*theta[person,3] +
                             lambda[20,5]*theta[person,5] + lambda[20,7]*theta[person,7]))
 }
# prior distributions for the factor:
for (person in 1:N){
 theta[person, 1:8] ~ dmnorm(kappa[1:8], inv.phi[1:8,1:8])
}
# prior distribution for the factor covariance matrix
inv.phi[1:8,1:8] ~ dwish(theta.invcov.0[1:8,1:8], theta.invcov.df.0)
theta.cov[1:8,1:8] <- inverse(inv.phi[1:8,1:8])
# fix factor means
for (theta in 1:8){
 kappa[theta] <- 0
# theta.cov <- inverse(inv.phi)</pre>
# prior distributions for the measurement model mean/precision parameters
for (item in 1:I){
 mu[item] ~ dnorm(mu.mean.0, mu.precision.0)
}
# prior distributions for the loadings (except the first loading, which is fixed to 1.0)
 lambda[1,4] <- 1
  lambda[1,6] <- 1
 lambda[1,7] <- 1
 lambda[2,4] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[2,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[3,4] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[3,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
  lambda[4,2] \leftarrow 1
 lambda[4,3] \leftarrow 1
 lambda[4,5] \leftarrow 1
 lambda[4,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[5,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[5,4] ~ dnorm(lambda.mean.0, lambda.precision.0)
  lambda[5,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
  lambda[5,8] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[6,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
  lambda[7,1] <- 1
 lambda[7,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[7,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
 lambda[8,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
  lambda[9,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
```

```
lambda[10,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[10,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[10,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[10,8] <- 1
    lambda[11,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[11,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[11,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[12,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[12,8] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[13,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[13,4] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[13,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[13,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[14,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[14,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[15,1] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[15,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[16,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[16,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[17,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[17,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[17,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[18,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[18,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[18,6] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[18,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[19,1] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[19,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[19,3] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[19,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[19,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[20,2] ~ dnorm(lambda.mean.0, lambda.precision.0)
   lambda[20,3] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[20,5] ~ dnorm(lambda.mean.0, lambda.precision.0)
    lambda[20,7] ~ dnorm(lambda.mean.0, lambda.precision.0)
}
# specification of prior values for measurement model parameters:
  item intercepts
mu.mean.0 = 0
mu.variance.0 = 1
mu.precision.0 = 1 / mu.variance.0
    Factor loadings -- these are the discriminations
lambda.mean.0 = 0
lambda.variance.0 = 1
lambda.precision.0 = 1 / lambda.variance.0
# values for prior for factor variance (based on variance of marker item)
theta.cov.0 = diag(8)
theta.invcov.0 = solve(theta.cov.0)
theta.invcov.df.0 = 10
```

```
# next, create data for JAGS to use:
model04.data = list(
  N = nrow(FSdata),
 X = FSdata,
  I = ncol(FSdata),
  mu.mean.0 = mu.mean.0,
  mu.precision.0 = mu.precision.0,
  lambda.mean.0 = lambda.mean.0,
  lambda.precision.0 = lambda.precision.0,
  theta.invcov.0 = theta.invcov.0,
  theta.invcov.df.0 = theta.invcov.df.0
)
model04.parameters = c("mu", "lambda", "theta.cov", "theta")
# for reproducable analyses
model04.seed = 06042019+4
Here, we will use the R2jags jags.parallel() function, which will run somewhat faster (one chain per core):
model04.r2jags = jags.parallel(
  data = model04.data,
  parameters.to.save = model04.parameters,
  model.file = model04.function,
 n.chains = 4.
 n.iter = 10000,
 n.thin = 5,
  n.burnin = 5000,
 n.cluster = 4,
  jags.seed = model04.seed
model04.r2jags
## Inference for Bugs model at "model04.function", fit using jags,
    4 chains, each with 10000 iterations (first 5000 discarded), n.thin = 5
    n.sims = 4000 iterations saved
##
##
                   mu.vect sd.vect
                                        2.5%
                                                   25%
                                                            50%
                                                                      75%
## lambda[7,1]
                     1.000
                              0.000
                                       1.000
                                                 1.000
                                                          1.000
                                                                    1.000
## lambda[15,1]
                     1.305
                              0.381
                                       0.746
                                                 1.046
                                                          1.244
                                                                    1.490
## lambda[19,1]
                     1.232
                              0.392
                                       0.571
                                                0.954
                                                          1.184
                                                                    1.471
## lambda[4,2]
                     1.000
                              0.000
                                       1.000
                                                1.000
                                                          1.000
                                                                   1.000
## lambda[5,2]
                     1.057
                              0.574
                                      -0.099
                                                0.696
                                                          1.053
                                                                   1.423
## lambda[7,2]
                    -0.023
                                      -0.939
                              0.457
                                                -0.313
                                                         -0.017
                                                                   0.260
## lambda[9,2]
                     1.302
                              0.421
                                       0.650
                                                0.988
                                                          1.239
                                                                   1.561
## lambda[10,2]
                     1.006
                                      -0.332
                                                          1.014
                              0.682
                                                0.564
                                                                   1.464
## lambda[11,2]
                                      -1.132
                                                -0.252
                     0.150
                              0.630
                                                          0.172
                                                                   0.577
## lambda[13,2]
                                                          1.200
                     1.227
                              0.586
                                       0.148
                                                0.834
                                                                    1.599
## lambda[14,2]
                     0.938
                              0.541
                                      -0.070
                                                0.595
                                                          0.912
                                                                   1.249
## lambda[16,2]
                     1.237
                              0.529
                                       0.282
                                                0.883
                                                          1.212
                                                                   1.548
## lambda[17,2]
                     0.557
                              0.590
                                      -0.620
                                                0.174
                                                          0.572
                                                                   0.944
## lambda[18,2]
                                      -0.951
                                                -0.171
                                                                    0.512
                     0.152
                              0.533
                                                          0.185
## lambda[19,2]
                     0.094
                              0.715
                                      -1.361
                                                -0.363
                                                          0.105
                                                                    0.548
## lambda[20,2]
                     0.193
                              0.755
                                      -1.276
                                                -0.330
                                                          0.196
                                                                    0.726
## lambda[4,3]
                     1.000
                              0.000
                                       1.000
                                                1.000
                                                          1.000
                                                                    1.000
## lambda[19,3]
                    -0.108
                              0.540
                                      -1.167
                                                -0.451
                                                         -0.108
                                                                    0.243
```

## lambda	a[20,3]	-0.359	0.543	-1.541	-0.687	-0.331	0.011
## lambda	a[1,4]	1.000	0.000	1.000	1.000	1.000	1.000
## lambda	a[2,4]	2.113	0.478	1.313	1.777	2.069	2.412
## lambda	a[3,4]	1.812	0.465	1.060	1.482	1.758	2.091
## lambda	a[5,4]	0.242	0.229	-0.235	0.102	0.247	0.382
## lambda	a[13,4]	0.435	0.175	0.140	0.312	0.417	0.537
## lambda		1.000	0.000	1.000	1.000	1.000	1.000
	a[10,5]	1.334	0.312	0.832	1.116	1.302	1.505
	a[11,5]	1.775	0.421	1.099	1.469	1.720	2.011
	a[13,5]	0.910	0.256	0.498	0.730	0.880	1.052
	a[17,5]	1.323	0.297	0.821	1.114	1.291	1.495
	a[18,5]	0.633	0.193	0.291	0.504	0.618	0.743
	a[19,5]	0.795	0.296	0.287	0.594	0.769	0.971
	a[19,5] a[20,5]	2.115	0.481	1.275	1.775	2.081	2.389
			0.000				
## lambda		1.000		1.000	1.000	1.000	1.000
	a[18,6]	0.285	0.604	-0.998	-0.043	0.259	0.629
## lambda		1.000	0.000	1.000	1.000	1.000	1.000
## lambda		0.931	0.627	-0.427	0.564	0.934	1.332
## lambda		0.553	0.541	-0.609	0.231	0.568	0.898
## lambda		-0.404	0.606	-1.541	-0.801	-0.424	-0.086
## lambda		-0.238	0.484	-1.184	-0.535	-0.235	0.047
## lambda		1.823	0.421	1.099	1.523	1.785	2.096
## lambda		0.268	0.564	-0.868	-0.074	0.270	0.611
## lambda	-	0.717	0.174	0.430	0.590	0.700	0.828
	a[10,7]	-0.232	0.561	-1.415	-0.576	-0.222	0.143
## lambda	a[11,7]	0.332	0.588	-0.828	-0.058	0.322	0.724
## lambda	a[12,7]	1.588	0.449	0.764	1.276	1.564	1.880
## lambda	a[13,7]	-0.477	0.572	-1.648	-0.854	-0.453	-0.095
## lambda	a[14,7]	1.449	0.428	0.593	1.168	1.440	1.727
## lambda	a[15,7]	0.235	0.672	-1.080	-0.181	0.225	0.646
## lambda	a[16,7]	1.117	0.390	0.352	0.868	1.118	1.368
## lambda	a[17,7]	0.539	0.507	-0.431	0.187	0.536	0.879
## lambda	a[18,7]	0.905	0.474	-0.026	0.591	0.913	1.206
## lambda	a[19,7]	-0.166	0.659	-1.469	-0.608	-0.167	0.302
## lambda	a[20,7]	0.367	0.734	-1.025	-0.144	0.372	0.873
## lambda	a[5,8]	0.622	0.761	-0.758	0.125	0.559	1.066
## lambda	a[10,8]	1.000	0.000	1.000	1.000	1.000	1.000
## lambda	a[12,8]	-0.569	0.454	-1.534	-0.847	-0.546	-0.265
## mu[1]		0.093	0.155	-0.211	-0.012	0.095	0.194
## mu[2]		0.728	0.271	0.226	0.540	0.719	0.903
## mu[3]		-0.105	0.216	-0.550	-0.244	-0.099	0.036
## mu[4]		0.127	0.099	-0.069	0.060	0.128	0.194
## mu[5]		0.319	0.088	0.153	0.258	0.316	0.375
## mu[6]		1.677	0.186	1.344	1.548	1.669	1.791
## mu[7]		-0.695	0.146	-0.998	-0.789	-0.690	-0.594
## mu[8]		0.821	0.078	0.674	0.767	0.819	0.871
## mu[9]		0.483	0.079	0.333	0.431	0.479	0.534
## mu[3]	1	-0.828	0.149	-1.130	-0.924	-0.825	-0.728
## mu[10]		-0.254	0.143	-0.578	-0.352	-0.246	-0.152
## mu[11]		$\frac{-0.254}{1.114}$	0.138	0.862	1.014	1.104	1.204
## mu[12]		-1.314	0.142	-1.695	-1.429	-1.297	-1.185
## mu[13] ## mu[14]		1.239	0.164	0.944		1.228	
## mu[14] ## mu[15]					1.126		1.339
		-0.451	0.166	-0.811	-0.555	-0.438	-0.339
## mu[16]	I	1.008	0.148	0.751	0.907	0.997	1.100

## mu[17]	-0.555	0.149	-0.863	-0.653	-0.554	-0.454
## mu[18]	-0.228	0.111	-0.458	-0.301	-0.227	-0.151
## mu[19]	-1.794	0.317	-2.500	-1.983	-1.759	-1.570
## mu[20]	-1.148	0.244	-1.666	-1.307	-1.129	-0.973
## theta[1,	,1] 1.249	0.678	0.038	0.789	1.205	1.660
## theta[2,	,1] 2.104	1.002	0.390	1.432	2.007	2.686
## theta[3,			-0.462	0.353	0.776	1.206
## theta[4,			-1.580	-0.572	-0.112	0.324
## theta[5,			-3.844	-2.183	-1.446	-0.792
## theta[6,			-4.492	-2.645	-1.847	-1.093
## theta[7,			-5.805	-3.591	-2.563	-1.639
## theta[8,			-4.970	-2.765	-1.868	-1.082
## theta[9,			-4.762	-2.870	-2.036	-1.274
## theta[10			-4.695	-2.733	-1.878	-1.132
## theta[11			-0.422	0.471	0.960	1.492
## theta[12			-0.595	0.168	0.562	0.951
## theta[13	• -		-2.903	-1.488	-0.905	-0.372
## theta[14	•		-4.322	-2.429	-1.675	-0.934
## theta[15		1.183	-4.619	-2.800	-1.946	-1.217
## theta[16	5,1] -1.285	0.947	-3.357	-1.879	-1.215	-0.628
## theta[17	7,1] -1.057	0.965	-3.156	-1.615	-1.006	-0.385
## theta[18	3,1] -1.955	1.165	-4.429	-2.712	-1.882	-1.126
## theta[19	9,1] -1.890	1.115	-4.440	-2.554	-1.796	-1.127
## theta[20	0,1] -2.883	1.560	-6.433	-3.795	-2.750	-1.800
## theta[21	•		-0.273	0.571	1.039	1.515
## theta[22	•		-1.613	-0.583	-0.118	0.326
## theta[23	•		0.660	1.979	2.832	3.852
## theta[24			-2.599	-1.288	-0.747	-0.257
## theta[25			-1.766	-0.722	-0.227	0.198
## theta[26	•		-6.865	-3.975	-2.818	-1.853
## theta[27			-4.019	-2.322	-1.592	-0.917
## theta[28	•		-7.121	-4.188	-3.078	-2.089
## theta[29	·		-4.209	-2.392	-1.651	-1.013
## theta[30	·		0.628	2.009	2.908	3.961
## theta[31			0.118	0.892	1.348	1.853
## theta[32			0.665	2.008	2.844	3.827
## theta[33	•		0.663	1.543	2.128	2.783
## theta[34			0.123	0.873	1.339	1.825
## theta[35			0.043	0.777	1.227	1.721
## theta[36	3,1] 0.511	0.651	-0.755	0.085	0.503	0.939
## theta[37	7,1] 0.073	0.645	-1.255	-0.330	0.086	0.499
## theta[38	3,1] 0.965	0.673	-0.282	0.524	0.918	1.390
## theta[39	9,1] 2.126	0.946	0.507	1.456	2.031	2.669
## theta[40	0,1] -1.707	1.095	-4.134	-2.344	-1.598	-0.941
## theta[41	1,1] -3.027	1.585	-6.679	-3.954	-2.911	-1.909
## theta[42	2,1] 3.097		0.620	2.035	2.923	4.013
## theta[43			-0.274	0.787	1.353	1.973
## theta[44			-4.769	-2.932	-2.088	-1.268
## theta[45			0.442	1.306	1.830	2.432
## theta[46			-0.190	0.532	0.927	1.335
## theta[47			-4.252	-2.563	-1.780	-1.093
## theta[48			-2.987	-1.603	-1.017	-0.501
## theta[49			-5.765	-3.427	-2.388	-1.543
## theta[50						
## thetalb(1.368	0.714	0.085	0.865	1.320	1.818

## theta[51,1]	-2.599	1.492	-5.933	-3.486	-2.444	-1.552
## theta[52,1]	-1.061	0.886	-2.965	-1.609	-1.017	-0.446
## theta[53,1]	-0.060	0.689	-1.491	-0.502	-0.050	0.409
## theta[54,1]	1.952	0.931	0.366	1.343	1.861	2.487
## theta[55,1]	-0.728	0.776	-2.452	-1.197	-0.665	-0.193
## theta[56,1]	3.116	1.513	0.688	2.059	2.948	3.957
## theta[57,1]	2.292	1.113	0.464	1.510	2.170	2.940
## theta[58,1]	-3.002	1.631	-6.609	-3.982	-2.865	-1.859
## theta[59,1]	-1.729	1.086	-4.083	-2.381	-1.627	-0.975
## theta[60,1]	1.043	0.657	-0.212	0.607	1.015	1.463
## theta[61,1]	-2.041	1.198	-4.710	-2.771	-1.944	-1.187
## theta[62,1]	-2.652	1.512	-6.023	-3.572	-2.529	-1.608
## theta[63,1]	0.399	0.717	-0.958	-0.071	0.390	0.835
## theta[64,1]	1.255	0.832	-0.253	0.705	1.203	1.727
## theta[65,1]	0.531	0.666	-0.762	0.082	0.530	0.956
## theta[66,1]	-0.802	0.780	-2.469	-1.294	-0.750	-0.253
## theta[67,1]	1.718	0.817	0.286	1.153	1.664	2.192
## theta[68,1]	-3.063	1.675	-6.885	-4.002	-2.894	-1.914
## theta[69,1]	-3.324	1.836	-7.494	-4.351	-3.152	-2.080
## theta[70,1]	0.399	0.647	-0.846	-0.018	0.380	0.815
## theta[71,1]	-1.649	1.041	-3.976	-2.273	-1.563	-0.922
## theta[72,1]	-1.762	1.104	-4.337	-2.402	-1.632	-0.982
## theta[73,1]	-2.888	1.554	-6.419	-3.789	-2.741	-1.809
## theta[74,1]	0.637	0.719	-0.739	0.173	0.612	1.081
## theta[75,1]	-1.819	1.083	-4.115	-2.488	-1.745	-1.043
## theta[76,1]	-3.227	1.681	-6.940	-4.261	-3.083	-2.069
## theta[77,1]	-1.114	0.888	-3.082	-1.652	-1.043	-0.496
## theta[78,1]	-0.127	0.717	-1.608	-0.582	-0.108	0.348
## theta[79,1]	3.069	1.504	0.593	2.021	2.903	3.949
## theta[80,1]	0.677	0.612	-0.456	0.262	0.642	1.065
## theta[81,1]	-1.521	1.056	-3.843	-2.177	-1.426	-0.777
## theta[82,1]	1.743	0.789	0.374	1.189	1.696	2.221
## theta[83,1]	-3.017	1.657	-6.588	-4.011	-2.848	-1.851
## theta[84,1]	-1.011	0.882	-2.959	-1.555	-0.955	-0.401
## theta[85,1]	0.219	0.639	-1.083	-0.198	0.236	0.626
## theta[86,1]	0.814	0.636	-0.360	0.389	0.788	1.214
## theta[87,1]	-0.235	0.674	-1.673	-0.656	-0.204	0.221
## theta[88,1]	1.716	0.786	0.377	1.168	1.640	2.186
## theta[89,1]	3.060	1.488	0.645	2.014	2.875	3.904
## theta[90,1]	1.138	0.773	-0.264	0.603	1.089	1.618
## theta[91,1]	1.669	0.757	0.316	1.141	1.612	2.129
## theta[92,1]	-2.093	1.176	-4.629	-2.809	-2.006	-1.266
## theta[93,1]	1.317	0.854	-0.170	0.736	1.255	1.792
## theta[94,1]	2.394	1.084	0.606	1.650	2.289	2.991
## theta[95,1]	3.089	1.544	0.616	2.019	2.911	3.968
## theta[96,1]	2.102	1.003	0.419	1.406	2.008	2.681
## theta[97,1]	-0.742	0.771	-2.501	-1.204	-0.683	-0.206
## theta[98,1]	-2.203	1.217	-4.893	-2.966	-2.098	-1.342
## theta[99,1]	2.162	0.967	0.523	1.462	2.077	2.745
## theta[100,1]	-1.706	1.154	-4.193	-2.400	-1.616	-0.926
## theta[101,1]	-1.564	1.039	-3.781	-2.227	-1.488	-0.832
## theta[102,1]	2.483	1.289	0.331	1.592	2.339	3.244
## theta[103,1]	-1.676	1.052	-4.001	-2.330	-1.590	-0.937
## theta[104,1]	2.216	1.076	0.484	1.446	2.118	2.813

	theta[105,1]	1.038	0.637	-0.089	0.600	0.992	1.433
	theta[106,1]	-0.884	0.814	-2.665	-1.380	-0.832	-0.330
	theta[107,1]	-0.820	0.916	-2.820	-1.386	-0.750	-0.193
	theta[108,1]	3.074	1.533	0.647	1.992	2.866	3.949
	theta[109,1]	0.491	0.643	-0.769	0.071	0.493	0.912
##	theta[110,1]	0.524	0.602	-0.648	0.131	0.516	0.917
	theta[111,1]	-2.080	1.189	-4.626	-2.796	-1.975	-1.251
##	theta[112,1]	-3.242	1.772	-7.373	-4.268	-3.040	-1.997
##	theta[113,1]	0.624	0.641	-0.575	0.199	0.585	1.031
##	theta[114,1]	-0.755	0.770	-2.434	-1.221	-0.694	-0.228
##	theta[115,1]	0.788	0.600	-0.323	0.386	0.754	1.172
##	theta[116,1]	2.238	1.061	0.524	1.506	2.128	2.856
##	theta[117,1]	-3.050	1.644	-6.684	-3.981	-2.908	-1.916
##	theta[118,1]	-0.789	0.779	-2.542	-1.244	-0.726	-0.248
##	theta[119,1]	1.317	0.696	0.068	0.828	1.267	1.745
##	theta[120,1]	-3.352	1.735	-7.167	-4.383	-3.188	-2.145
##	theta[121,1]	-1.667	1.203	-4.288	-2.399	-1.572	-0.834
##	theta[122,1]	-1.587	0.984	-3.835	-2.193	-1.507	-0.893
##	theta[123,1]	-1.919	1.138	-4.407	-2.618	-1.786	-1.114
##	theta[124,1]	3.047	1.492	0.640	2.018	2.876	3.847
##	theta[125,1]	0.513	0.603	-0.659	0.109	0.518	0.899
##	theta[126,1]	1.097	0.697	-0.197	0.623	1.052	1.542
##	theta[127,1]	1.455	0.868	-0.102	0.896	1.402	1.949
##	theta[128,1]	1.716	0.880	0.211	1.101	1.631	2.239
##	theta[129,1]	-0.745	0.788	-2.452	-1.217	-0.678	-0.199
##	theta[130,1]	1.041	0.661	-0.175	0.589	1.014	1.441
##	theta[131,1]	-1.348	0.944	-3.424	-1.921	-1.264	-0.676
##	theta[132,1]	-0.278	0.695	-1.731	-0.714	-0.228	0.196
##	theta[133,1]	0.434	0.682	-0.875	-0.009	0.427	0.854
##	theta[134,1]	-2.887	1.571	-6.468	-3.822	-2.744	-1.787
##	theta[135,1]	-2.404	1.427	-5.506	-3.273	-2.289	-1.404
##	theta[136,1]	2.377	1.072	0.592	1.641	2.261	2.993
##	theta[137,1]	0.343	0.603	-0.852	-0.050	0.353	0.726
##	theta[138,1]	2.305	1.141	0.410	1.506	2.203	2.970
##	theta[139,1]	-2.525	1.460	-5.659	-3.394	-2.381	-1.517
##	theta[140,1]	2.378	1.123	0.412	1.616	2.281	3.038
##	theta[141,1]	0.974	0.657	-0.219	0.524	0.939	1.386
	theta[142,1]	1.832	0.849	0.380	1.246	1.758	2.334
	theta[143,1]	-2.052	1.189	-4.665	-2.802	-1.955	-1.214
	theta[144,1]	-1.316	0.990	-3.480	-1.935	-1.239	-0.623
	theta[145,1]	-1.339	0.940	-3.286	-1.939	-1.267	-0.680
	theta[146,1]	1.142	0.647	-0.050	0.714	1.120	1.543
	theta[147,1]	2.237	1.008	0.543	1.520	2.156	2.831
	theta[148,1]	-3.243	1.722	-7.038	-4.240	-3.083	-2.035
	theta[149,1]	-0.123	0.706	-1.569	-0.559	-0.106	0.336
	theta[150,1]	3.095	1.509	0.677	2.028	2.900	3.949
	theta[151,1]	2.052	0.891	0.513	1.415	1.987	2.586
	theta[152,1]	1.897	0.937	0.284	1.257	1.821	2.447
	theta[153,1]	1.666	0.832	0.191	1.097	1.600	2.178
	theta[154,1]	2.047	0.929	0.514	1.412	1.951	2.590
	theta[155,1]	1.736	0.788	0.428	1.175	1.664	2.202
	theta[156,1]	2.220	1.046	0.454	1.471	2.131	2.823
	theta[157,1]	1.766	0.821	0.351	1.204	1.688	2.250
	theta[158,1]	-0.670	0.768	-2.363	-1.111	-0.604	-0.160

	theta[159,1]	1.509	0.705	0.292	1.015	1.447	1.950
	theta[160,1]	1.304	0.915	-0.310	0.707	1.238	1.817
	theta[161,1]	0.707	0.725	-0.656	0.230	0.690	1.160
	theta[162,1]	2.043	0.887	0.513	1.420	1.958	2.570
	theta[163,1]	2.389	1.078	0.604	1.640	2.292	3.035
	theta[164,1]	2.364	1.124	0.516	1.581	2.274	2.997
	theta[165,1]	-3.323	1.812	-7.425	-4.383	-3.122	-2.054
##	theta[166,1]	-2.474	1.465	-5.763	-3.350	-2.328	-1.457
##	theta[167,1]	-2.553	1.375	-5.587	-3.366	-2.415	-1.583
##	theta[168,1]	3.055	1.522	0.591	2.025	2.864	3.852
##	theta[169,1]	2.132	0.937	0.572	1.472	2.037	2.721
##	theta[170,1]	-3.247	1.722	-7.114	-4.256	-3.080	-2.050
##	theta[171,1]	-1.223	0.940	-3.196	-1.798	-1.148	-0.569
##	theta[172,1]	-0.029	0.692	-1.433	-0.474	-0.018	0.419
##	theta[173,1]	3.014	1.465	0.624	1.998	2.846	3.868
##	theta[174,1]	0.600	0.616	-0.573	0.198	0.581	0.993
##	theta[175,1]	-1.151	0.908	-3.146	-1.714	-1.079	-0.507
##	theta[176,1]	-0.781	0.770	-2.437	-1.231	-0.726	-0.254
##	theta[177,1]	-0.262	0.701	-1.751	-0.692	-0.229	0.203
##	theta[178,1]	-1.074	0.929	-3.026	-1.675	-1.004	-0.441
##	theta[179,1]	-0.136	0.698	-1.549	-0.584	-0.121	0.312
##	theta[180,1]	1.814	0.930	0.176	1.185	1.744	2.380
##	theta[181,1]	-2.046	1.327	-4.919	-2.834	-1.942	-1.141
##	theta[182,1]	-0.187	0.747	-1.740	-0.651	-0.151	0.310
##	theta[183,1]	0.304	0.603	-0.888	-0.092	0.299	0.701
##	theta[184,1]	2.468	1.256	0.341	1.580	2.377	3.204
##	theta[185,1]	1.443	0.883	-0.174	0.868	1.408	1.956
##	theta[186,1]	2.170	1.028	0.362	1.468	2.090	2.781
##	theta[187,1]	-1.391	1.004	-3.551	-2.005	-1.313	-0.684
##	theta[188,1]	-1.301	0.925	-3.316	-1.849	-1.228	-0.653
##	theta[189,1]	3.128	1.540	0.686	2.031	2.920	3.976
##	theta[190,1]	3.107	1.570	0.681	2.004	2.888	3.979
##	theta[191,1]	2.114	0.894	0.628	1.487	2.009	2.647
##	theta[192,1]	2.299	1.091	0.400	1.575	2.200	2.954
##	theta[193,1]	2.221	1.100	0.428	1.459	2.104	2.841
##	theta[194,1]	-1.085	0.878	-3.060	-1.605	-1.017	-0.476
	theta[195,1]	-2.027	1.227	-4.654	-2.784	-1.901	-1.150
	theta[196,1]	2.329	1.124	0.458	1.545	2.207	2.987
	theta[197,1]	1.178	0.824	-0.332	0.644	1.138	1.670
	theta[198,1]	3.059	1.511	0.598	2.008	2.875	3.882
	theta[199,1]	2.578	1.282	0.498	1.710	2.401	3.276
	theta[200,1]	-0.120	0.715	-1.623	-0.552	-0.093	0.357
	theta[201,1]	3.024	1.449	0.621	2.011	2.865	3.870
	theta[202,1]	1.998	0.909	0.501	1.368	1.891	2.528
	theta[203,1]	1.818	0.817	0.432	1.256	1.734	2.288
	theta[204,1]	2.004	0.988	0.309	1.327	1.913	2.584
	theta[205,1]	-0.816	0.787	-2.541	-1.286	-0.752	-0.269
	theta[206,1]	0.247	0.654	-1.054	-0.169	0.243	0.662
	theta[207,1]	0.522	0.649	-0.764	0.114	0.515	0.940
	theta[208,1]	0.141	0.687	-1.193	-0.287	0.121	0.571
	theta[209,1]	2.030	0.915	0.490	1.392	1.935	2.561
	theta[210,1]	3.042	1.454	0.644	2.012	2.907	3.884
	theta[211,1]	-1.434	1.038	-3.644	-2.074	-1.352	-0.710
##	theta[212,1]	0.997	0.589	-0.105	0.608	0.963	1.374

## theta[213,1]	3.026	1.528	0.610	1.983	2.833	3.868
## theta[214,1]	2.198	1.039	0.451	1.491	2.101	2.791
## theta[215,1]	-1.389	1.001	-3.587	-1.993	-1.317	-0.687
## theta[216,1]	3.095	1.474	0.736	2.055	2.948	3.955
## theta[217,1]	-2.888	1.646	-6.648	-3.871	-2.717	-1.724
## theta[218,1]	1.800	0.902	0.248			2.344
				1.165	1.718	
## theta[219,1]	0.968	0.692	-0.329	0.505	0.922	1.413
## theta[220,1]	0.314	0.615	-0.907	-0.078	0.323	0.710
## theta[221,1]	0.640	0.631	-0.524	0.220	0.614	1.030
## theta[222,1]	1.064	0.804	-0.359	0.530	1.009	1.549
## theta[223,1]	3.124	1.541	0.687	2.072	2.919	3.973
## theta[224,1]	-3.018	1.662	-6.826	-3.940	-2.845	-1.912
## theta[225,1]	0.619	0.771	-0.848	0.130	0.585	1.078
## theta[226,1]	-1.123	0.911	-3.176	-1.642	-1.031	-0.490
## theta[227,1]	-3.318	1.759	-7.344	-4.313	-3.135	-2.108
## theta[228,1]	-1.735	1.076	-4.122	-2.370	-1.667	-0.981
## theta[229,1]	2.156	1.012	0.444	1.457	2.052	2.756
## theta[230,1]	0.251	0.644	-1.005	-0.184	0.246	0.679
## theta[231,1]	-3.245	1.740	-7.235	-4.278	-3.120	-2.031
## theta[232,1]	0.342	0.666	-0.941	-0.094	0.344	0.762
## theta[233,1]	-1.693	1.044	-3.932	-2.340	-1.637	-0.949
## theta[234,1]	1.819	0.877	0.281	1.210	1.745	2.329
## theta[235,1]	-1.333	0.974	-3.419	-1.926	-1.265	-0.656
## theta[236,1]	0.169	0.688	-1.193	-0.267	0.165	0.601
## theta[237,1]	0.836	0.662	-0.365	0.380	0.796	1.249
## theta[238,1]	1.971	0.976	0.281	1.298	1.899	2.539
## theta[239,1]	-0.776	0.832	-2.634	-1.270	-0.699	-0.201
## theta[240,1]	-1.289	0.909	-3.219	-1.862	-1.215	-0.666
## theta[241,1]	0.696	0.639	-0.519	0.271	0.674	1.102
## theta[242,1]	0.279	0.665	-0.986	-0.160	0.254	0.699
## theta[243,1]	-0.137	0.713	-1.615	-0.579	-0.107	0.332
## theta[244,1]	-1.610	1.015	-3.869	-2.216	-1.516	-0.909
## theta[245,1]	2.805	1.317	0.662	1.902	2.643	3.544
## theta[246,1]	-2.884	1.621	-6.453	-3.813	-2.739	-1.747
## theta[247,1]	1.037	0.707	-0.287	0.567	0.995	1.467
## theta[248,1]	1.312	0.816	-0.118	0.756	1.246	1.779
## theta[249,1]	-2.324	1.292	-5.205	-3.107	-2.197	-1.406
## theta[250,1]	-1.980	1.122	-4.399	-2.679	-1.913	-1.208
## theta[251,1]	-2.005	1.318	-4.904	-2.791	-1.891	-1.076
## theta[252,1]	1.062	0.623	-0.103	0.641	1.034	1.455
## theta[253,1]	-0.238	0.888	-2.177	-0.762	-0.189	0.353
## theta[254,1]	1.941	0.854	0.486	1.329	1.885	2.471
## theta[255,1]	-1.378	0.952	-3.425	-1.965	-1.297	-0.696
- , -	0.848	0.645	-0.381	0.427	0.818	1.263
## theta[257,1]	3.055	1.519	0.657	1.991	2.846	3.910
## theta[258,1]	2.173	0.954	0.586	1.500	2.081	2.741
## theta[259,1]	-0.277	0.698	-1.759	-0.718	-0.240	0.203
## theta[260,1]	0.802	0.732	-0.545	0.330	0.766	1.250
## theta[261,1]	-2.043	1.206	-4.745	-2.760	-1.941	-1.215
## theta[262,1]	1.603	0.789	0.243	1.078	1.542	2.057
## theta[263,1]	-1.432	0.941	-3.439	-2.026	-1.347	-0.771
## theta[264,1]	-2.189	1.234	-4.969	-2.919	-2.103	-1.336
## theta[265,1]	-1.462	1.024	-3.700	-2.101	-1.369	-0.753
## theta[266,1]	1.263	0.861	-0.305	0.700	1.210	1.789
011000[200,1]	1.200	0.001	0.000	0.100	1.210	1.100

##	theta[267,1]	2.341	1.134	0.434	1.555	2.225	2.999
##	theta[268,1]	-0.516	0.754	-2.092	-0.996	-0.487	0.009
##	theta[269,1]	0.475	0.647	-0.805	0.064	0.468	0.876
##	theta[270,1]	1.850	0.821	0.474	1.284	1.773	2.330
##	theta[271,1]	-1.575	1.011	-3.767	-2.178	-1.474	-0.865
##	theta[272,1]	-0.361	0.665	-1.772	-0.767	-0.330	0.085
##	theta[273,1]	2.367	1.107	0.527	1.601	2.269	3.016
##	theta[274,1]	-0.741	0.849	-2.501	-1.259	-0.688	-0.169
##	theta[275,1]	3.058	1.477	0.701	2.035	2.866	3.893
##	theta[276,1]	0.617	0.624	-0.571	0.182	0.599	1.034
##	theta[277,1]	0.749	0.766	-0.688	0.249	0.740	1.213
##	theta[278,1]	3.096	1.558	0.661	2.040	2.881	3.905
##	theta[279,1]	2.299	1.110	0.444	1.546	2.191	2.908
##	theta[280,1]	3.029	1.498	0.656	1.976	2.872	3.855
##	theta[281,1]	1.376	0.937	-0.323	0.761	1.322	1.915
##	theta[282,1]	3.023	1.445	0.685	2.017	2.828	3.824
##	theta[283,1]	1.334	0.711	0.003	0.842	1.283	1.761
##			1.101	0.593	1.651	2.294	3.012
	theta[284,1]	2.408 1.528	0.746	0.393			1.974
##	theta[285,1]				1.028 -1.907	1.479	-0.506
##	theta[286,1]	-1.243	1.069	-3.610		-1.153	
##	theta[287,1]	1.693	0.768	0.394	1.152	1.632	2.141
##	theta[288,1]	1.048	0.774	-0.349	0.523	1.005	1.515
##	theta[289,1]	-0.278	0.694	-1.752	-0.707	-0.250	0.184
##	theta[290,1]	1.328	0.802	-0.130	0.801	1.284	1.823
##	theta[291,1]	-3.263	1.732	-7.016	-4.257	-3.103	-2.058
##	theta[292,1]	-0.886	0.866	-2.808	-1.397	-0.809	-0.292
##	theta[293,1]	0.648	0.629	-0.556	0.216	0.627	1.045
##	theta[294,1]	-1.682	1.031	-3.973	-2.298	-1.604	-0.967
##	theta[295,1]	1.463	0.881	-0.148	0.870	1.415	2.004
##	theta[296,1]	-1.684	1.147	-4.131	-2.393	-1.586	-0.883
##	theta[297,1]	-1.631	1.184	-4.208	-2.348	-1.540	-0.815
##	theta[298,1]	1.209	0.668	0.029	0.747	1.172	1.619
##	theta[299,1]	-1.098	0.984	-3.182	-1.696	-1.033	-0.435
##	theta[300,1]	2.037	0.896	0.503	1.413	1.955	2.558
##	theta[301,1]	2.300	1.121	0.360	1.514	2.205	2.986
##	theta[302,1]	1.182	0.835	-0.413	0.650	1.142	1.671
##	theta[303,1]	0.373	0.672	-0.884	-0.071	0.357	0.789
##	theta[304,1]	-0.052	0.722	-1.498	-0.506	-0.046	0.419
##	theta[305,1]	2.301	1.040	0.632	1.571	2.191	2.899
##	theta[306,1]	0.600	0.666	-0.679	0.166	0.584	1.015
##	theta[307,1]	-1.176	0.890	-3.126	-1.735	-1.092	-0.558
##	theta[308,1]	-1.235	0.878	-3.127	-1.778	-1.160	-0.624
##	theta[309,1]	-2.298	1.333	-5.273	-3.102	-2.210	-1.376
##	theta[310,1]	-1.461	0.954	-3.576	-2.034	-1.381	-0.802
##	theta[311,1]	0.937	0.751	-0.414	0.426	0.885	1.399
##	theta[312,1]	-2.507	1.470	-5.598	-3.403	-2.378	-1.492
##	theta[313,1]	0.575	0.709	-0.800	0.113	0.562	1.006
	theta[314,1]	-1.110	0.879	-3.036	-1.651	-1.048	-0.509
##	theta[315,1]	1.901	0.915	0.369	1.259	1.805	2.472
##	theta[316,1]	-0.930	0.863	-2.804	-1.442	-0.846	-0.323
	theta[317,1]	-1.134	0.874	-3.063	-1.642	-1.064	-0.528
	theta[318,1]	1.892	0.864	0.381	1.283	1.823	2.409
	theta[319,1]	1.848	0.828	0.418	1.267	1.768	2.355
	theta[320,1]	-1.525	0.995	-3.707	-2.144	-1.437	-0.815
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##	theta[321,1]	-0.875	0.838	-2.690	-1.371	-0.808	-0.302
##	theta[322,1]	1.305	0.801	-0.211	0.788	1.274	1.800
##	theta[323,1]	2.311	1.093	0.404	1.557	2.214	2.966
##	theta[324,1]	0.579	0.684	-0.738	0.143	0.568	0.995
##	theta[325,1]	0.777	0.781	-0.713	0.279	0.746	1.236
##	theta[326,1]	-1.392	0.942	-3.426	-1.953	-1.292	-0.739
##	theta[327,1]	-2.027	1.358	-4.933	-2.841	-1.906	-1.098
##	theta[328,1]	0.533	0.627	-0.665	0.120	0.529	0.943
##	theta[329,1]	0.236	0.635	-1.013	-0.162	0.237	0.655
##	theta[330,1]	-1.155	0.895	-3.161	-1.670	-1.082	-0.528
##	theta[331,1]	-0.837	0.802	-2.554	-1.336	-0.783	-0.304
##	theta[332,1]	0.787	0.663	-0.464	0.332	0.770	1.201
##	theta[333,1]	-1.577	1.029	-3.842	-2.199	-1.492	-0.847
##	theta[334,1]	-2.994	1.621	-6.534	-4.005	-2.852	-1.863
##	theta[335,1]	0.512	0.658	-0.784	0.081	0.500	0.935
##	theta[336,1]	-0.548	0.759	-2.200	-1.002	-0.501	-0.037
##	theta[337,1]	-1.723	1.076	-4.128	-2.355	-1.609	-1.000
##	theta[338,1]	-1.748	1.060	-4.064	-2.418	-1.653	-0.984
##	theta[339,1]	-0.294	0.720	-1.826	-0.748	-0.256	0.189
##	theta[340,1]	2.305	1.105	0.425	1.541	2.208	2.946
##	theta[341,1]	2.328	1.121	0.394	1.551	2.240	2.997
##	theta[342,1]	-2.984	1.616	-6.551	-3.942	-2.847	-1.876
##	theta[343,1]	-2.281	1.317	-5.029	-3.078	-2.194	-1.360
##	theta[344,1]	1.734	0.855	0.252	1.158	1.656	2.255
##	theta[345,1]	-2.321	1.343	-5.187	-3.127	-2.223	-1.374
##	theta[346,1]	2.046	1.003	0.311	1.369	1.965	2.620
##	theta[347,1]	0.077	0.680	-1.269	-0.369	0.094	0.512
##	theta[348,1]	0.913	0.686	-0.316	0.454	0.878	1.346
##	theta[349,1]	-0.878	0.808	-2.594	-1.389	-0.840	-0.326
##	theta[350,1]	1.975	0.953	0.336	1.331	1.876	2.520
##	theta[351,1]	2.468	1.287	0.352	1.574	2.317	3.184
##	theta[352,1]	-1.577	1.004	-3.788	-2.180	-1.470	-0.877
##	theta[353,1]	-2.327	1.385	-5.362	-3.189	-2.210	-1.336
##	theta[354,1]	2.304	1.115	0.363	1.538	2.222	2.929
##	theta[355,1]	-0.860	0.848	-2.715	-1.356	-0.791	-0.270
##	theta[356,1]	1.912	0.899	0.367	1.290	1.822	2.452
##	theta[357,1]	-0.058	0.628	-1.323	-0.469	-0.055	0.371
	theta[358,1]	3.088	1.491	0.728	2.035	2.881	3.971
	theta[359,1]	2.106	0.971	0.490	1.421	2.007	2.685
	theta[360,1]	0.173	0.682	-1.106	-0.274	0.159	0.600
	theta[361,1]	1.802	0.817	0.415	1.254	1.721	2.274
	theta[362,1]	1.177	0.632	-0.028	0.747	1.155	1.573
	theta[363,1]	1.321	0.901	-0.257	0.717	1.254	1.842
##	theta[364,1]	-1.622	1.023	-3.917	-2.248	-1.533	-0.885
##	theta[365,1]	1.605	0.822	0.148	1.041	1.536	2.113
##	theta[366,1]	0.446	0.710	-0.960	-0.004	0.448	0.888
## ##	theta[367,1] theta[368,1]	-1.713	1.004	-3.889	-2.342	-1.630	-1.007 2.744
		2.181	0.984	0.495	1.483	2.100	
##	theta[369,1]	2.353	1.095	0.486	1.573	2.264	3.018
##	theta[370,1]	2.312	1.091	0.481	1.575	2.206	2.924
##	theta[371,1]	-1.240	0.908	-3.244	-1.792	-1.162	-0.601
	theta[372,1]	-1.508	0.982	-3.694	-2.087	-1.428	-0.823
	theta[373,1]	-0.831	0.808	-2.588	-1.319	-0.786	-0.270
##	theta[374,1]	0.702	0.695	-0.604	0.250	0.667	1.116

##	theta[375,1]	1.223	0.905	-0.363	0.628	1.155	1.742
##	theta[376,1]	0.737	0.774	-0.767	0.244	0.724	1.213
##	theta[377,1]	-1.504	0.976	-3.649	-2.089	-1.429	-0.819
##	theta[378,1]	-0.408	0.737	-2.012	-0.853	-0.368	0.088
##	theta[379,1]	0.350	0.734	-1.101	-0.130	0.352	0.827
##	theta[380,1]	-1.467	0.947	-3.535	-2.061	-1.391	-0.811
##	theta[381,1]	-0.888	0.838	-2.744	-1.393	-0.835	-0.322
##	theta[382,1]	-0.825	0.832	-2.640	-1.333	-0.772	-0.253
##	theta[383,1]	2.062	1.018	0.307	1.362	1.975	2.655
##	theta[384,1]	1.368	0.891	-0.199	0.770	1.305	1.886
##	theta[385,1]	1.262	0.743	-0.088	0.757	1.241	1.712
##	theta[386,1]	-0.459	0.755	-2.054	-0.919	-0.417	0.063
			0.733				-0.784
##	theta[387,1]	-1.489		-3.678	-2.099	-1.408	
##	theta[388,1]	-0.748	0.820	-2.502	-1.244	-0.700	-0.184
##	theta[389,1]	2.306	1.103	0.464	1.562	2.180	2.946
##	theta[390,1]	-1.193	0.882	-3.144	-1.732	-1.129	-0.597
##	theta[391,1]	-0.859	0.854	-2.728	-1.364	-0.775	-0.265
##	theta[392,1]	-1.753	1.031	-4.007	-2.367	-1.678	-1.018
##	theta[393,1]	-1.577	0.994	-3.787	-2.167	-1.490	-0.885
##	theta[394,1]	3.046	1.433	0.690	2.040	2.893	3.860
##	theta[395,1]	-2.291	1.341	-5.212	-3.096	-2.172	-1.363
##	theta[396,1]	3.072	1.472	0.714	2.039	2.875	3.890
##	theta[397,1]	-2.346	1.391	-5.423	-3.186	-2.225	-1.376
##	theta[398,1]	-0.707	0.836	-2.509	-1.208	-0.672	-0.156
##	theta[399,1]	-2.899	1.574	-6.476	-3.835	-2.724	-1.799
##	theta[400,1]	2.106	1.015	0.379	1.428	2.002	2.678
##	theta[401,1]	0.733	0.649	-0.468	0.300	0.709	1.144
##	theta[402,1]	-0.075	0.673	-1.519	-0.489	-0.043	0.379
##	theta[403,1]	1.041	0.734	-0.310	0.564	0.992	1.496
##	theta[404,1]	-0.027	0.657	-1.380	-0.435	-0.003	0.398
##	theta[405,1]	0.089	0.786	-1.415	-0.400	0.073	0.579
##	theta[406,1]	-2.030	1.338	-4.982	-2.866	-1.936	-1.111
##	theta[407,1]	-0.168	0.678	-1.582	-0.604	-0.136	0.284
##	theta[408,1]	-2.004	1.360	-5.125	-2.782	-1.867	-1.048
##	theta[409,1]	1.979	0.888	0.479	1.375	1.887	2.477
##	theta[410,1]	2.245	1.115	0.364	1.475	2.144	2.886
	theta[411,1]	-1.125	0.871	-3.013	-1.669	-1.050	-0.528
	theta[412,1]	-1.581	1.010	-3.789	-2.197	-1.482	-0.879
	theta[413,1]	2.433	1.261	0.349	1.591	2.318	3.147
	theta[414,1]	-1.988	1.145	-4.521	-2.697	-1.883	-1.184
	theta[415,1]	-2.504	1.415	-5.650	-3.387	-2.419	-1.544
		-1.143	0.868				
	theta[416,1]			-3.044	-1.679	-1.070	-0.531
	theta[417,1]	-1.087	0.851	-2.957	-1.579	-1.044	-0.506
##	theta[418,1]	-1.267	0.942	-3.384	-1.820	-1.194	-0.608
##	theta[419,1]	-0.708	0.821	-2.428	-1.221	-0.659	-0.143
##	theta[420,1]	-0.878	0.818	-2.648	-1.383	-0.821	-0.300
##	theta[421,1]	-2.431	1.413	-5.449	-3.275	-2.309	-1.439
##	theta[422,1]	1.130	0.660	-0.063	0.678	1.107	1.546
##	theta[423,1]	-2.386	1.410	-5.489	-3.252	-2.299	-1.378
##	theta[424,1]	-1.432	0.993	-3.659	-2.028	-1.313	-0.737
##	theta[425,1]	-1.439	0.960	-3.498	-2.023	-1.366	-0.760
	theta[426,1]	-2.023	1.342	-4.942	-2.835	-1.919	-1.097
##	theta[427,1]	-1.172	0.906	-3.161	-1.728	-1.099	-0.545
##	theta[428,1]	0.058	0.759	-1.444	-0.431	0.075	0.549

##	theta[429,1]	1.272	0.846	-0.252	0.717	1.205	1.771
	theta[430,1]	-1.167	0.882	-3.106	-1.711	-1.097	-0.550
	theta[431,1]	3.076	1.498	0.704	1.989	2.891	3.926
	theta[432,1]	1.158	0.835	-0.356	0.595	1.104	1.648
	theta[433,1]	1.149	0.810	-0.312	0.621	1.110	1.611
	theta[434,1]	0.758	0.804	-0.761	0.230	0.743	1.261
	theta[435,1]	-2.705	1.498	-6.110	-3.581	-2.556	-1.685
	theta[436,1]	-2.029	1.377	-5.198	-2.793	-1.893	-1.085
	theta[437,1]	-1.586	0.991	-3.748	-2.204	-1.509	-0.883
##	theta[438,1]	0.836	0.721	-0.459	0.356	0.789	1.276
	theta[439,1]	0.960	0.680	-0.261	0.514	0.901	1.357
	theta[440,1]	0.991	0.737	-0.342	0.498	0.948	1.447
##	theta[441,1]	-2.305	1.361	-5.286	-3.157	-2.188	-1.350
##	theta[442,1]	-1.999	1.341	-4.833	-2.823	-1.890	-1.062
##	theta[443,1]	0.937	0.716	-0.400	0.483	0.895	1.356
##	theta[444,1]	1.035	0.818	-0.460	0.491	0.996	1.541
##	theta[445,1]	2.326	1.121	0.419	1.545	2.196	2.992
##	theta[446,1]	-2.022	1.349	-4.960	-2.865	-1.888	-1.066
	theta[447,1]	-0.012	0.730	-1.509	-0.460	0.013	0.445
##	theta[448,1]	1.008	0.786	-0.380	0.499	0.971	1.480
##	theta[449,1]	-0.390	0.725	-1.941	-0.819	-0.347	0.088
##	theta[450,1]	-1.207	0.883	-3.078	-1.742	-1.123	-0.612
	theta[451,1]	-1.815	1.079	-4.194	-2.458	-1.716	-1.071
##	theta[452,1]	-0.326	0.668	-1.688	-0.759	-0.320	0.109
##	theta[453,1]	2.138	0.994	0.460	1.434	2.048	2.744
##	theta[454,1]	-2.012	1.346	-5.010	-2.814	-1.892	-1.081
##	theta[455,1]	-0.007	0.669	-1.378	-0.437	0.007	0.432
##	theta[456,1]	2.086	0.940	0.446	1.437	1.996	2.643
##	theta[457,1]	-0.506	0.724	-2.047	-0.950	-0.461	-0.016
##	theta[458,1]	2.059	1.018	0.314	1.360	1.973	2.659
##	theta[459,1]	2.037	0.917	0.491	1.407	1.948	2.574
##	theta[460,1]	0.910	0.730	-0.429	0.419	0.880	1.356
##	theta[461,1]	1.006	0.820	-0.465	0.456	0.971	1.487
##	theta[462,1]	-1.670	1.034	-3.905	-2.317	-1.582	-0.919
##	theta[463,1]	-1.063	0.874	-2.954	-1.581	-1.008	-0.457
##	theta[464,1]	1.065	0.704	-0.217	0.594	1.025	1.500
	theta[465,1]	0.176	0.680	-1.176	-0.265	0.165	0.601
	theta[466,1]	0.680	0.752	-0.785	0.205	0.669	1.144
	theta[467,1]	-1.051	0.865	-2.924	-1.579	-0.972	-0.468
	theta[468,1]	2.290	1.105	0.415	1.524	2.197	2.962
	theta[469,1]	0.902	0.711	-0.385	0.421	0.848	1.340
	theta[470,1]	0.464	0.678	-0.796	0.021	0.436	0.899
	theta[471,1]	1.007	0.803	-0.419	0.483	0.966	1.467
##	theta[472,1]	1.283	0.865	-0.268	0.692	1.230	1.799
##	theta[473,1]	1.166	0.727	-0.135	0.668	1.129	1.608
##	theta[474,1]	1.178	0.730	-0.131	0.686	1.142	1.628
##	theta[475,1]	-2.899	1.608	-6.486	-3.864	-2.748	-1.784
##	theta[476,1]	1.397	0.932	-0.224	0.783	1.333	1.943
##	theta[477,1]	0.917	0.736	-0.428	0.422	0.871	1.372
	theta[478,1]	0.966	0.702	-0.291	0.496	0.920	1.383
	theta[479,1]	-0.867	0.830	-2.657	-1.365	-0.807	-0.301
	theta[480,1]	0.677	0.819	-0.861	0.169	0.643	1.170
##	theta[481,1]	1.216	0.853	-0.292	0.650	1.168	1.710
##	theta[482,1]	-1.326	0.954	-3.477	-1.891	-1.235	-0.678

##	theta[483,1]	-0.539	0.770	-2.233	-0.996	-0.508	-0.012
##	theta[484,1]	-0.724	0.817	-2.541	-1.223	-0.663	-0.181
##	theta[485,1]	-0.701	0.821	-2.506	-1.198	-0.639	-0.153
##	theta[486,1]	-0.813	0.799	-2.598	-1.293	-0.741	-0.256
##	theta[487,1]	-0.234	0.719	-1.716	-0.687	-0.224	0.228
##	theta[488,1]	-1.414	0.976	-3.603	-2.003	-1.332	-0.725
##	theta[489,1]	0.750	0.768	-0.724	0.244	0.730	1.224
##	theta[490,1]	-1.137	0.892	-3.024	-1.692	-1.064	-0.500
##	theta[491,1]	-2.021	1.317	-4.877	-2.857	-1.938	-1.100
##	theta[492,1]	0.287	0.674	-0.978	-0.167	0.267	0.722
##	theta[493,1]	-3.009	1.644	-6.594	-3.994	-2.846	-1.855
##	theta[494,1]	1.981	0.873	0.511	1.378	1.884	2.490
			1.209				
##	theta[495,1]	-1.751		-4.526 -0.743	-2.461	-1.646	-0.908
##	theta[496,1]	0.597	0.681	-0.743	0.144	0.582	1.033
##	theta[497,1]	-2.084	1.364	-5.171	-2.849	-2.003	-1.152
##	theta[498,1]	-2.588	1.508	-5.922	-3.511	-2.481	-1.566
##	theta[499,1]	-2.188	1.433	-5.495	-3.012	-2.032	-1.217
##	theta[500,1]	-1.782	1.085	-4.094	-2.451	-1.687	-0.993
##	theta[501,1]	0.284	0.698	-1.104	-0.162	0.291	0.718
##	theta[502,1]	-1.266	0.930	-3.233	-1.831	-1.181	-0.623
##	theta[503,1]	-2.641	1.529	-5.896	-3.606	-2.535	-1.573
##	theta[504,1]	-1.545	1.008	-3.818	-2.170	-1.459	-0.826
##	theta[505,1]	-1.845	1.236	-4.692	-2.580	-1.726	-0.987
##	theta[506,1]	-2.236	1.484	-5.610	-3.073	-2.081	-1.219
##	theta[507,1]	-1.797	1.069	-4.124	-2.463	-1.694	-1.043
##	theta[508,1]	-1.683	1.035	-3.950	-2.323	-1.584	-0.932
##	theta[509,1]	-2.241	1.474	-5.620	-3.055	-2.109	-1.239
##	theta[510,1]	-1.528	1.168	-3.993	-2.255	-1.436	-0.722
##	theta[511,1]	-1.426	0.971	-3.526	-2.016	-1.364	-0.747
##	theta[512,1]	-1.510	0.989	-3.646	-2.128	-1.418	-0.817
##	theta[513,1]	1.135	0.712	-0.139	0.650	1.086	1.551
##	theta[514,1]	-1.590	0.981	-3.753	-2.201	-1.517	-0.893
##	theta[515,1]	-1.660	1.040	-3.944	-2.303	-1.574	-0.930
##	theta[516,1]	-1.442	0.974	-3.572	-2.035	-1.370	-0.738
##	theta[517,1]	-2.014	1.225	-4.660	-2.759	-1.909	-1.153
##	theta[518,1]	-0.405	0.714	-1.915	-0.858	-0.374	0.095
##	theta[519,1]	-2.232	1.432	-5.334	-3.071	-2.112	-1.236
	theta[520,1]	0.440	0.689	-0.863	-0.026	0.413	0.870
	theta[521,1]	-1.705	1.158	-4.269	-2.372	-1.616	-0.914
	theta[522,1]	-2.430	1.365	-5.381	-3.238	-2.334	-1.488
	theta[523,1]	-2.442	1.358	-5.404	-3.259	-2.362	-1.516
	theta[524,1]	-2.010	1.333	-4.935	-2.793	-1.865	-1.099
	theta[525,1]	-1.890	1.254	-4.634	-2.645	-1.807	-1.030
##	theta[526,1]	-2.425	1.345	-5.323	-3.246	-2.315	-1.497
##	theta[527,1]	0.330	0.651	-0.948	-0.086	0.321	0.762
##	theta[528,1]	0.349	0.660	-0.980	-0.083	0.349	0.779
##	theta[529,1]	-2.434	1.341	-5.307	-3.272	-2.374	-1.478
##	theta[530,1]	-0.446	0.964	-2.513	-1.037	-0.410	0.198
##	theta[530,1]	-1.800	1.192	-2.313	-2.539	-1.738	-0.945
##	theta[532,1]	-3.263	1.784	-7.244 -0.746	-4.315	-3.096	-2.007
##	theta[533,1]	0.532	0.684	-0.746	0.085	0.505	0.956
	theta[534,1]	-3.254	1.725	-7.149	-4.254	-3.098	-2.058
##	theta[535,1]	1.151	0.767	-0.196	0.624	1.106	1.628
##	theta[536,1]	0.405	0.656	-0.885	-0.019	0.409	0.830

	theta[1,2]	-0.262	0.359	-0.985	-0.490	-0.260	-0.032
##	theta[2,2]	0.376	0.454	-0.440	0.066	0.342	0.653
	theta[3,2]	-0.282	0.360	-1.028	-0.502	-0.280	-0.044
##	theta[4,2]	0.003	0.385	-0.733	-0.255	-0.009	0.248
##	theta[5,2]	-0.742	0.415	-1.655	-0.985	-0.712	-0.451
##	theta[6,2]	-0.302	0.372	-1.075	-0.541	-0.288	-0.052
##	theta[7,2]	-0.650	0.462	-1.629	-0.924	-0.616	-0.335
##	theta[8,2]	-1.002	0.483	-2.081	-1.290	-0.952	-0.665
##	theta[9,2]	-0.290	0.369	-1.037	-0.534	-0.277	-0.053
##	theta[10,2]	-0.323	0.398	-1.161	-0.570	-0.303	-0.060
##	theta[11,2]	0.514	0.431	-0.261	0.219	0.483	0.784
##	theta[12,2]	0.048	0.371	-0.703	-0.192	0.045	0.275
##	theta[13,2]	-0.501	0.351	-1.244	-0.721	-0.485	-0.265
##	theta[14,2]	-0.841	0.434	-1.858	-1.089	-0.799	-0.541
##	theta[15,2]	-0.319	0.381	-1.114	-0.559	-0.301	-0.073
##	theta[16,2]	-0.461	0.360	-1.216	-0.688	-0.451	-0.220
##	theta[17,2]	-0.820	0.430	-1.800	-1.060	-0.787	-0.531
##	theta[18,2]	-0.310	0.347	-1.006	-0.530	-0.306	-0.081
##	theta[19,2]	-0.243	0.368	-1.013	-0.475	-0.234	0.002
##	theta[20,2]	-0.988	0.492	-2.103	-1.268	-0.929	-0.655
##	theta[21,2]	0.474	0.436	-0.316	0.182	0.440	0.744
##	theta[22,2]	-0.002	0.381	-0.741	-0.251	-0.007	0.237
##	theta[23,2]	0.832	0.558	-0.123	0.457	0.777	1.151
##	theta[24,2]	-0.213	0.355	-0.917	-0.443	-0.223	0.015
##	theta[25,2]	-0.140	0.358	-0.873	-0.366	-0.133	0.090
##	theta[26,2]	-0.748	0.508	-1.921	-1.042	-0.687	-0.387
##	theta[27,2]	-0.121	0.339	-0.802	-0.342	-0.122	0.097
##	theta[28,2]	-1.119	0.557	-2.350	-1.446	-1.067	-0.726
##	theta[29,2]	-0.042	0.362	-0.760	-0.275	-0.044	0.188
##	theta[30,2]	0.852	0.557	-0.070	0.462	0.790	1.168
##	theta[31,2]	0.358	0.409	-0.358	0.084	0.327	0.604
##	theta[32,2]	0.836	0.561	-0.117	0.450	0.776	1.148
##	theta[33,2]	-0.175	0.368	-0.906	-0.414	-0.172	0.069
##	theta[34,2]	0.303	0.423	-0.456	0.022	0.276	0.562
##	theta[35,2]	0.143	0.418	-0.624	-0.133	0.121	0.396
##	theta[36,2]	0.379	0.391	-0.345	0.111	0.369	0.623
##	theta[37,2]	-0.235	0.349	-0.940	-0.467	-0.227	-0.009
##	theta[38,2]	-0.126	0.355	-0.848	-0.350	-0.121	0.098
##	theta[39,2]	0.442	0.443	-0.347	0.132	0.423	0.718
##	theta[40,2]	0.136	0.365	-0.552	-0.105	0.132	0.357
##	theta[41,2]	-0.743	0.489	-1.805	-1.036	-0.690	-0.406
##	theta[42,2]	0.858	0.559	-0.068	0.470	0.800	1.183
##	theta[43,2]	0.697	0.496	-0.135	0.355	0.647	0.983
##	theta[44,2]	-0.717	0.397	-1.564	-0.959	-0.693	-0.443
##	theta[45,2]	-0.223	0.359	-0.949	-0.456	-0.216	0.014
##	theta[46,2]	-0.242	0.343	-0.953	-0.457	-0.223	-0.014
##	theta[47,2]	-0.240	0.358	-0.991	-0.462	-0.225	-0.006
##	theta[48,2]	-0.415	0.351	-1.147	-0.628	-0.402	-0.187
##	theta[49,2]	-0.500	0.450	-1.505	-0.765	-0.465	-0.197
##	theta[50,2]	-0.130	0.351	-0.816	-0.358	-0.134	0.095
	theta[51,2]	-0.792	0.472	-1.871	-1.066	-0.746	-0.472
	theta[52,2]	-0.372	0.369	-1.132	-0.607	-0.354	-0.123
	theta[53,2]	-0.634	0.377	-1.439	-0.867	-0.607	-0.379
	theta[54,2]	0.444	0.449	-0.325	0.137	0.402	0.707

##	theta[55,2]	0.020	0.376	-0.722	-0.225	0.014	0.264
##	theta[56,2]	0.870	0.582	-0.086	0.471	0.808	1.209
##	theta[57,2]	0.515	0.464	-0.288	0.199	0.477	0.794
##	theta[58,2]	-0.742	0.498	-1.862	-1.027	-0.695	-0.397
##	theta[59,2]	-0.024	0.368	-0.766	-0.255	-0.028	0.208
##	theta[60,2]	-0.046	0.387	-0.759	-0.306	-0.061	0.194
##	theta[61,2]	-0.491	0.379	-1.310	-0.717	-0.466	-0.230
##	theta[62,2]	-0.791	0.476	-1.853	-1.061	-0.736	-0.461
##	theta[63,2]	0.518	0.437	-0.256	0.220	0.489	0.788
##	theta[64,2]	0.506	0.434	-0.277	0.217	0.485	0.763
##	theta[65,2]	0.419	0.416	-0.330	0.129	0.406	0.676
##	theta[66,2]	-0.274	0.354	-0.990	-0.501	-0.268	-0.037
##	theta[67,2]	0.394	0.424	-0.395	0.121	0.366	0.649
##	theta[68,2]	-0.751	0.502	-1.830	-1.050	-0.710	-0.404
##	theta[69,2]	-1.117	0.551	-2.400	-1.424	-1.049	-0.735
##	theta[70,2]	-0.407	0.355	-1.128	-0.629	-0.398	-0.170
##	theta[71,2]	0.113	0.368	-0.595	-0.135	0.105	0.337
##	theta[72,2]	-0.133	0.361	-0.875	-0.364	-0.136	0.101
##	theta[73,2]	-0.983	0.493	-2.101	-1.277	-0.931	-0.641
##	theta[74,2]	0.600	0.443	-0.188	0.301	0.582	0.867
##	theta[75,2]	-0.397	0.355	-1.166	-0.616	-0.381	-0.164
##	theta[76,2]	-1.108	0.535	-2.319	-1.409	-1.053	-0.740
##	theta[77,2]	0.146	0.367	-0.560	-0.092	0.141	0.375
##	theta[78,2]	0.115	0.410	-0.637	-0.153	0.097	0.356
##	theta[79,2]	0.834	0.537	-0.115	0.476	0.786	1.150
##	theta[80,2]	-0.042	0.353	-0.730	-0.268	-0.043	0.187
##	theta[81,2]	-0.575	0.367	-1.367	-0.793	-0.549	-0.338
##	theta[82,2]	-0.097	0.374	-0.860	-0.333	-0.094	0.141
##	theta[83,2]	-0.750	0.506	-1.956	-1.024	-0.699	-0.410
##	theta[84,2]	-0.504	0.361	-1.263	-0.731	-0.481	-0.259
##	theta[85,2]	-0.257	0.358	-0.994	-0.480	-0.251	-0.019
##	theta[86,2]	-0.443	0.359	-1.193	-0.667	-0.425	-0.200
##	theta[87,2]	0.049	0.366	-0.666	-0.184	0.044	0.270
##	theta[88,2]	0.069	0.377	-0.651	-0.181	0.059	0.302
##	theta[89,2]	0.829	0.548	-0.114	0.453	0.774	1.154
##	theta[90,2]	0.230	0.425	-0.541	-0.051	0.205	0.491
##	theta[91,2]	0.086	0.384	-0.647	-0.169	0.076	0.326
	theta[92,2]	-0.469	0.361	-1.233	-0.695	-0.450	-0.232
	theta[93,2]	0.309	0.444	-0.479	0.009	0.281	0.574
	theta[94,2]	0.563	0.467	-0.270	0.248	0.528	0.840
	theta[95,2]	0.836	0.552	-0.116	0.461	0.789	1.171
	theta[96,2]	0.378	0.460	-0.453	0.073	0.343	0.648
	theta[97,2]	0.033	0.363	-0.626	-0.210	0.015	0.251
	theta[98,2]	-0.269	0.372	-1.039	-0.500	-0.252	-0.019
	theta[99,2]	0.203	0.426	-0.613	-0.077	0.190	0.469
##	theta[100,2]	-0.857	0.448	-1.854	-1.124	-0.812	-0.545
##	theta[101,2]	-0.146	0.373	-0.913	-0.382	-0.141	0.099
##	theta[102,2]	0.935	0.552	0.051	0.539	0.872	1.255
##	theta[103,2]	0.123	0.359	-0.545	-0.108	0.111	0.346
##	theta[104,2]	0.633	0.479	-0.208	0.306	0.598	0.921
	theta[105,2]	0.095	0.358	-0.608	-0.138	0.092	0.324
	theta[106,2]	0.298	0.396	-0.419	0.033	0.273	0.536
	theta[107,2]	-0.860	0.437	-1.838	-1.116	-0.814	-0.558
	theta[108,2]	0.838	0.547	-0.090	0.460	0.783	1.143
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##	theta[109,2]	0.372	0.425	-0.402	0.084	0.347	0.640
##	theta[110,2]	-0.227	0.345	-0.933	-0.450	-0.222	0.005
	theta[111,2]	-0.692	0.394	-1.564	-0.938	-0.654	-0.419
##	theta[112,2]	-1.100	0.542	-2.387	-1.406	-1.037	-0.720
##	theta[113,2]	0.178	0.364	-0.499	-0.069	0.163	0.398
##	theta[114,2]	-0.069	0.377	-0.788	-0.316	-0.080	0.162
##	theta[115,2]	0.082	0.351	-0.590	-0.148	0.073	0.307
##	theta[116,2]	0.628	0.484	-0.224	0.302	0.583	0.921
##	theta[117,2]	-0.755	0.490	-1.824	-1.038	-0.722	-0.419
##	theta[118,2]	-0.236	0.369	-1.000	-0.466	-0.231	0.001
##	theta[119,2]	0.127	0.388	-0.592	-0.130	0.112	0.364
##	theta[120,2]	-1.111	0.549	-2.380	-1.415	-1.059	-0.723
##	theta[121,2]	-0.767	0.440	-1.748	-1.034	-0.720	-0.468
##	theta[122,2]	-0.174	0.355	-0.879	-0.400	-0.171	0.062
##	theta[123,2]	-0.285	0.352	-1.006	-0.499	-0.275	-0.055
##	theta[124,2]	0.843	0.553	-0.091	0.461	0.782	1.173
##	theta[125,2]	0.145	0.389	-0.566	-0.117	0.129	0.390
##	theta[126,2]	0.232	0.429	-0.527	-0.066	0.197	0.491
##	theta[127,2]	0.626	0.485	-0.217	0.297	0.581	0.912
	theta[128,2]	0.580	0.463	-0.203	0.262	0.525	0.850
##	theta[129,2]	-0.130	0.355	-0.841	-0.363	-0.128	0.102
##	theta[130,2]	0.238	0.402	-0.504	-0.034	0.220	0.493
	theta[131,2]	-0.362	0.355	-1.121	-0.575	-0.356	-0.129
	theta[132,2]	0.498	0.416	-0.233	0.212	0.463	0.752
	theta[133,2]	-0.217	0.370	-0.966	-0.454	-0.216	0.026
	theta[134,2]	-0.993	0.496	-2.149	-1.282	-0.929	-0.645
##	theta[135,2]	-0.723	0.455	-1.729	-0.992	-0.677	-0.412
##	theta[136,2]	0.561	0.461	-0.219	0.240	0.523	0.828
##	theta[137,2]	-0.226	0.360	-0.931	-0.463	-0.227	0.006
##	theta[138,2]	0.595	0.468	-0.227	0.268	0.556	0.898
##	theta[139,2]	-0.497	0.457	-1.522	-0.754	-0.466	-0.202
##	theta[140,2]	0.816	0.515	-0.087	0.467	0.779	1.119
##	theta[141,2]	-0.137	0.363	-0.857	-0.374	-0.124	0.105
##	theta[142,2]	0.497	0.441	-0.286	0.203	0.463	0.760
##	theta[143,2]	-0.682	0.391	-1.554	-0.924	-0.658	-0.411
##	theta[144,2]	-0.625	0.383	-1.463	-0.865	-0.596	-0.362
##	theta[145,2]	-0.507	0.361	-1.272	-0.726	-0.484	-0.268
	theta[146,2]	0.291	0.408	-0.446	0.018	0.265	0.539
	theta[147,2]	0.315	0.442	-0.500	0.021	0.292	0.583
	theta[148,2]	-1.110	0.549	-2.377	-1.429	-1.048	-0.720
	theta[149,2]	0.564	0.432	-0.180	0.270	0.529	0.823
	theta[150,2]	0.852	0.550	-0.090	0.475	0.802	1.156
	theta[151,2]	0.127	0.406	-0.639	-0.139	0.107	0.377
	theta[152,2]	0.588	0.461	-0.198	0.275	0.546	0.859
	theta[153,2]	0.645	0.465	-0.146	0.319	0.603	0.923
	theta[154,2]	0.457	0.433	-0.296	0.165	0.430	0.723
##	theta[155,2]	0.052	0.365	-0.655	-0.188	0.046	0.291
##	theta[156,2]	0.231	0.434	-0.554	-0.068	0.207	0.498
##	theta[157,2]	0.500	0.428	-0.275	0.215	0.467	0.759
##	theta[158,2]	-0.450	0.359	-1.197	-0.671	-0.439	-0.211
	theta[150,2]	0.430	0.385	-0.654	-0.180	0.433	0.211
	theta[160,2]	0.575	0.467	-0.235	0.160	0.538	0.846
	theta[161,2]	0.479	0.437	-0.303	0.180	0.447	0.747
	theta[161,2]	0.062	0.382	-0.651	-0.195	0.055	0.747
ππ	one oa [102,2]	0.002	0.302	0.001	0.190	0.000	0.500

	theta[163,2]	0.558	0.463	-0.246	0.242	0.522	0.833
	theta[164,2]	0.707	0.473	-0.125	0.378	0.676	0.996
	theta[165,2]	-1.110	0.543	-2.352	-1.428	-1.046	-0.726
	theta[166,2]	-0.502	0.451	-1.503	-0.764	-0.464	-0.203
	theta[167,2]	-0.551	0.411	-1.433	-0.803	-0.517	-0.272
##	theta[168,2]	0.827	0.557	-0.090	0.437	0.770	1.158
	theta[169,2]	0.232	0.402	-0.508	-0.032	0.214	0.475
##	theta[170,2]	-1.112	0.559	-2.400	-1.428	-1.050	-0.719
##	theta[171,2]	-0.410	0.369	-1.166	-0.639	-0.401	-0.178
##	theta[172,2]	0.485	0.434	-0.285	0.192	0.458	0.747
##	theta[173,2]	0.825	0.536	-0.086	0.471	0.772	1.135
##	theta[174,2]	-0.125	0.355	-0.838	-0.361	-0.122	0.108
##	theta[175,2]	-0.096	0.355	-0.792	-0.327	-0.101	0.130
##	theta[176,2]	-0.235	0.373	-0.982	-0.477	-0.241	0.009
##	theta[177,2]	-0.189	0.384	-0.921	-0.445	-0.187	0.052
##	theta[178,2]	-0.398	0.363	-1.152	-0.627	-0.380	-0.162
##	theta[179,2]	0.498	0.425	-0.259	0.207	0.467	0.760
##	theta[180,2]	0.470	0.452	-0.315	0.165	0.437	0.731
##	theta[181,2]	-1.005	0.484	-2.072	-1.286	-0.946	-0.669
##	theta[182,2]	0.297	0.404	-0.422	0.019	0.276	0.550
##	theta[183,2]	-0.124	0.360	-0.848	-0.351	-0.119	0.111
##	theta[184,2]	0.919	0.541	0.001	0.540	0.869	1.241
##	theta[185,2]	0.610	0.486	-0.234	0.275	0.564	0.892
##	theta[186,2]	0.596	0.467	-0.233	0.272	0.561	0.876
##	theta[187,2]	-0.402	0.393	-1.237	-0.647	-0.389	-0.131
##	theta[188,2]	-0.491	0.362	-1.253	-0.719	-0.475	-0.249
##	theta[189,2]	0.853	0.555	-0.120	0.474	0.802	1.185
##	theta[190,2]	0.844	0.555	-0.097	0.461	0.797	1.184
##	theta[191,2]	0.022	0.372	-0.698	-0.220	0.022	0.257
##	theta[192,2]	0.519	0.474	-0.320	0.205	0.479	0.803
##	theta[193,2]	0.741	0.500	-0.095	0.392	0.690	1.039
##	theta[194,2]	-0.344	0.358	-1.073	-0.570	-0.344	-0.114
##	theta[195,2]	-0.147	0.374	-0.884	-0.388	-0.129	0.097
##	theta[196,2]	0.522	0.467	-0.304	0.206	0.488	0.795
##	theta[197,2]	0.588	0.471	-0.234	0.259	0.544	0.870
##	theta[198,2]	0.840	0.571	-0.101	0.447	0.777	1.161
##	theta[199,2]	0.444	0.469	-0.357	0.127	0.409	0.720
	theta[200,2]	-0.673	0.379	-1.494	-0.900	-0.648	-0.412
	theta[201,2]	0.830	0.561	-0.095	0.445	0.765	1.145
	theta[202,2]	0.478	0.434	-0.292	0.183	0.449	0.747
	theta[203,2]	0.117	0.390	-0.610	-0.140	0.100	0.361
	theta[204,2]	0.640	0.486	-0.178	0.302	0.595	0.924
	theta[205,2]	-0.166	0.367	-0.916	-0.399	-0.161	0.068
	theta[206,2]	0.503	0.438	-0.258	0.196	0.470	0.766
	theta[207,2]	-0.091	0.384	-0.865	-0.333	-0.096	0.148
	theta[208,2]	-0.438	0.396	-1.298	-0.675	-0.417	-0.160
	theta[209,2]	-0.056	0.364	-0.758	-0.293	-0.067	0.177
##	theta[210,2]	0.834	0.563	-0.116	0.447	0.772	1.161
##	theta[211,2]	-0.164	0.353	-0.896	-0.387	-0.155	0.071
	theta[212,2]	-0.015	0.371	-0.720	-0.255	-0.022	0.208
	theta[213,2]	0.836	0.553	-0.095	0.450	0.780	1.157
	theta[214,2]	0.627	0.475	-0.189	0.309	0.583	0.903
	theta[215,2]	-0.399	0.408	-1.285	-0.646	-0.369	-0.123
	theta[216,2]	0.846	0.561	-0.077	0.452	0.792	1.164
		0.010	0.001			002	

	theta[217,2]	-0.997	0.494	-2.104	-1.280	-0.938	-0.657
##	theta[218,2]	0.478	0.459	-0.308	0.165	0.436	0.751
##	theta[219,2]	0.050	0.366	-0.641	-0.189	0.047	0.279
##	theta[220,2]	-0.471	0.359	-1.250	-0.690	-0.448	-0.226
##	theta[221,2]	-0.079	0.377	-0.818	-0.319	-0.086	0.159
##	theta[222,2]	0.365	0.419	-0.379	0.085	0.337	0.608
##	theta[223,2]	0.839	0.569	-0.083	0.441	0.763	1.178
##	theta[224,2]	-0.746	0.505	-1.885	-1.032	-0.695	-0.404
##	theta[225,2]	0.581	0.461	-0.237	0.268	0.549	0.864
##	theta[226,2]	-0.501	0.363	-1.272	-0.719	-0.482	-0.253
##	theta[227,2]	-1.129	0.551	-2.387	-1.450	-1.068	-0.737
##	theta[228,2]	-0.665	0.385	-1.495	-0.900	-0.634	-0.401
##	theta[229,2]	0.439	0.447	-0.374	0.137	0.413	0.712
##	theta[230,2]	0.433	0.376	-0.701	-0.204	0.033	0.279
	· ·			-2.363	-1.422	-1.042	
##	theta[231,2]	-1.109	0.548				-0.732
##	theta[232,2]	0.128	0.390	-0.613	-0.129	0.119	0.378
##	theta[233,2]	0.052	0.371	-0.622	-0.201	0.040	0.280
##	theta[234,2]	0.062	0.412	-0.708	-0.208	0.053	0.324
##	theta[235,2]	-0.490	0.376	-1.290	-0.718	-0.478	-0.237
##	theta[236,2]	-0.716	0.394	-1.583	-0.955	-0.688	-0.447
##	theta[237,2]	-0.263	0.360	-0.998	-0.488	-0.247	-0.029
##	theta[238,2]	0.645	0.483	-0.181	0.311	0.606	0.918
##	theta[239,2]	-0.515	0.360	-1.276	-0.742	-0.497	-0.279
##	theta[240,2]	-0.463	0.382	-1.285	-0.698	-0.434	-0.204
##	theta[241,2]	0.292	0.397	-0.448	0.031	0.274	0.539
##	theta[242,2]	0.350	0.402	-0.360	0.078	0.323	0.586
##	theta[243,2]	-0.126	0.390	-0.898	-0.377	-0.129	0.115
##	theta[244,2]	0.096	0.370	-0.616	-0.142	0.079	0.322
##	theta[245,2]	0.374	0.488	-0.475	0.047	0.345	0.655
##	theta[246,2]	-0.980	0.492	-2.114	-1.257	-0.925	-0.632
##	theta[247,2]	0.466	0.436	-0.323	0.176	0.436	0.721
##	theta[248,2]	0.545	0.442	-0.239	0.249	0.518	0.797
##	theta[249,2]	-0.797	0.428	-1.793	-1.040	-0.756	-0.511
##	theta[250,2]	-0.252	0.377	-1.048	-0.485	-0.240	-0.010
##	theta[251,2]	-1.014	0.488	-2.141	-1.280	-0.959	-0.683
##	theta[252,2]	0.056	0.386	-0.694	-0.194	0.048	0.304
	theta[253,2]	-0.886	0.441	-1.865	-1.152	-0.838	-0.581
	theta[254,2]	-0.013	0.368	-0.760	-0.258	-0.020	0.223
	theta[255,2]	-0.141	0.359	-0.861	-0.371	-0.139	0.089
	theta[256,2]	0.414	0.431	-0.362	0.120	0.390	0.675
	theta[257,2]	0.843	0.549	-0.082	0.461	0.800	1.162
	theta[258,2]	-0.088	0.359	-0.844	-0.320	-0.080	0.147
	theta[259,2]	-0.511	0.374	-1.328	-0.736	-0.486	-0.264
##	theta[260,2]	0.562	0.464	-0.233	0.240	0.518	0.843
##	theta[261,2]	-0.323	0.378	-1.126	-0.555	-0.306	-0.078
##	theta[262,2]	0.323	0.423	-0.274	0.186	0.439	0.719
##	theta[263,2]						
##	theta[264,2]	0.096	0.378	-0.611 -1.622	-0.153 -0.961	0.084	0.332
		-0.723	0.402			-0.695	-0.455
##	theta[265,2]	-0.257	0.368	-0.973	-0.496	-0.253	-0.020
##	theta[266,2]	0.511	0.456	-0.293	0.198	0.473	0.772
##	theta[267,2]	0.525	0.465	-0.288	0.214	0.497	0.801
##	theta[268,2]	-0.314	0.355	-1.040	-0.542	-0.301	-0.070
##	theta[269,2]	0.238	0.403	-0.500	-0.023	0.212	0.479
##	theta[270,2]	0.093	0.388	-0.684	-0.169	0.090	0.345

##	theta[271,2]	0.157	0.370	-0.527	-0.085	0.142	0.383
	theta[272,2]	0.020	0.363	-0.676	-0.220	0.013	0.245
	theta[273,2]	0.713	0.486	-0.115	0.378	0.668	0.997
##	theta[274,2]	-0.562	0.394	-1.415	-0.797	-0.531	-0.295
##	theta[275,2]	0.842	0.563	-0.102	0.453	0.787	1.155
##	theta[276,2]	0.044	0.360	-0.650	-0.188	0.033	0.266
	theta[277,2]	0.599	0.443	-0.179	0.306	0.569	0.859
##	theta[278,2]	0.857	0.564	-0.055	0.458	0.791	1.174
##	theta[279,2]	0.519	0.472	-0.313	0.201	0.478	0.806
##	theta[280,2]	0.825	0.550	-0.108	0.444	0.769	1.140
##	theta[281,2]	0.685	0.500	-0.171	0.351	0.637	0.969
##	theta[282,2]	0.816	0.536	-0.092	0.459	0.760	1.122
##	theta[283,2]	0.137	0.390	-0.575	-0.111	0.117	0.373
##	theta[284,2]	0.570	0.472	-0.249	0.250	0.528	0.835
##	theta[285,2]	-0.217	0.347	-0.907	-0.445	-0.216	0.004
##	theta[286,2]	-0.975	0.476	-2.006	-1.257	-0.923	-0.640
##	theta[287,2]	0.073	0.379	-0.653	-0.176	0.061	0.305
##	theta[288,2]	0.623	0.464	-0.196	0.307	0.580	0.896
##	theta[289,2]	0.127	0.391	-0.580	-0.134	0.115	0.360
##	theta[290,2]	0.331	0.436	-0.458	0.033	0.302	0.599
##	theta[291,2]	-1.108	0.537	-2.310	-1.426	-1.047	-0.734
##	theta[292,2]	-0.156	0.358	-0.872	-0.386	-0.150	0.073
##	theta[293,2]	0.031	0.351	-0.635	-0.199	0.019	0.251
	theta[294,2]	0.037	0.373	-0.673	-0.203	0.021	0.264
	theta[295,2]	0.622	0.493	-0.226	0.285	0.582	0.915
##	theta[296,2]	-0.858	0.438	-1.850	-1.108	-0.813	-0.556
##	theta[297,2]	-0.735	0.427	-1.692	-0.989	-0.690	-0.444
##	theta[298,2]	0.037	0.375	-0.678	-0.214	0.026	0.271
##	theta[299,2]	-0.869	0.445	-1.886	-1.130	-0.827	-0.554
##	theta[300,2]	0.178	0.396	-0.604	-0.073	0.169	0.430
##	theta[301,2]	0.535	0.467	-0.293	0.210	0.496	0.805
##	theta[302,2]	0.590	0.468	-0.261	0.288	0.549	0.858
##	theta[303,2]	0.191	0.391	-0.533	-0.065	0.177	0.436
##	theta[304,2]	-0.585	0.394	-1.418	-0.823	-0.558	-0.321
##	theta[305,2]	0.203	0.428	-0.588	-0.084	0.179	0.472
##	theta[306,2]	0.571	0.444	-0.205	0.263	0.533	0.833
##	theta[307,2]	-0.313	0.349	-1.020	-0.540	-0.307	-0.083
	theta[308,2]	-0.195	0.349	-0.905	-0.414	-0.189	0.035
	theta[309,2]	-0.450	0.431	-1.357	-0.706	-0.418	-0.156
	theta[310,2]	-0.182	0.362	-0.891	-0.412	-0.178	0.049
	theta[311,2]	0.421	0.417	-0.326	0.139	0.391	0.673
	theta[312,2]	-0.497	0.453	-1.471	-0.760	-0.461	-0.187
	theta[313,2]	0.278	0.408	-0.474	0.004	0.258	0.533
	theta[314,2]	0.145	0.360	-0.538	-0.098	0.142	0.371
	theta[315,2]	0.340	0.436	-0.427	0.037	0.319	0.608
	theta[316,2]	-0.255	0.345	-0.972	-0.476	-0.237	-0.029
	theta[317,2]	0.175	0.389	-0.541	-0.089	0.154	0.417
	theta[318,2]	0.166	0.414	-0.621	-0.109	0.152	0.428
##	theta[319,2]	-0.112	0.365	-0.843	-0.345	-0.115	0.123
	theta[313,2]	0.237	0.381	-0.463	-0.017	0.113	0.125
	theta[320,2]	-0.270	0.354	-0.971	-0.496	-0.267	-0.040
	theta[321,2]	0.494	0.461	-0.317	0.490	0.207	0.761
	theta[323,2]	0.494	0.475	-0.289	0.170	0.433	0.701
	theta[324,2]	-0.027	0.409	-0.827	-0.273	-0.035	0.793
ππ	0110 0a [UZ+,Z]	0.021	0.403	0.021	0.213	0.000	0.213

##	theta[325,2]	0.606	0.469	-0.212	0.277	0.570	0.878
##	theta[326,2]	0.087	0.377	-0.619	-0.162	0.073	0.323
##	theta[327,2]	-1.018	0.491	-2.142	-1.288	-0.968	-0.674
##	theta[328,2]	-0.117	0.348	-0.809	-0.343	-0.119	0.105
##	theta[329,2]	-0.269	0.343	-0.964	-0.493	-0.265	-0.041
##	theta[330,2]	-0.064	0.358	-0.771	-0.299	-0.061	0.167
##	theta[331,2]	0.346	0.407	-0.365	0.061	0.315	0.596
##	theta[332,2]	-0.359	0.356	-1.084	-0.583	-0.348	-0.127
##	theta[333,2]	0.083	0.381	-0.643	-0.173	0.072	0.325
##	theta[334,2]	-0.747	0.502	-1.911	-1.031	-0.694	-0.411
##	theta[335,2]	-0.019	0.401	-0.777	-0.289	-0.029	0.244
##	theta[336,2]	0.038	0.373	-0.681	-0.214	0.030	0.244
##		-0.124	0.367	-0.873		-0.126	0.202
	theta[337,2]				-0.353		
##	theta[338,2]	-0.206	0.355	-0.909	-0.432	-0.201	0.029
##	theta[339,2]	-0.162	0.372	-0.899	-0.399	-0.168	0.075
##	theta[340,2]	0.524	0.480	-0.325	0.195	0.479	0.812
##	theta[341,2]	0.529	0.464	-0.273	0.215	0.492	0.805
##	theta[342,2]	-0.747	0.487	-1.889	-1.017	-0.704	-0.418
##	theta[343,2]	-0.447	0.429	-1.329	-0.709	-0.421	-0.169
##	theta[344,2]	0.147	0.413	-0.613	-0.131	0.126	0.401
##	theta[345,2]	-0.455	0.437	-1.399	-0.715	-0.425	-0.163
##	theta[346,2]	0.419	0.450	-0.386	0.115	0.390	0.689
##	theta[347,2]	-0.608	0.387	-1.449	-0.842	-0.585	-0.347
##	theta[348,2]	-0.020	0.367	-0.741	-0.249	-0.030	0.221
##	theta[349,2]	-0.239	0.359	-0.962	-0.470	-0.227	-0.005
##	theta[350,2]	0.436	0.434	-0.344	0.139	0.407	0.695
##	theta[351,2]	0.938	0.550	0.022	0.552	0.882	1.270
##	theta[352,2]	0.087	0.368	-0.614	-0.156	0.073	0.317
##	theta[353,2]	-0.450	0.437	-1.401	-0.710	-0.425	-0.157
##	theta[354,2]	0.510	0.463	-0.315	0.195	0.477	0.784
##	theta[355,2]	-0.163	0.364	-0.877	-0.394	-0.164	0.072
##	theta[356,2]	0.304	0.410	-0.444	0.027	0.278	0.557
##	theta[357,2]	0.002	0.360	-0.693	-0.239	-0.005	0.236
##	theta[358,2]	0.847	0.559	-0.087	0.450	0.785	1.187
##	theta[359,2]	0.466	0.439	-0.332	0.171	0.439	0.726
##	theta[360,2]	0.119	0.392	-0.617	-0.136	0.101	0.358
	theta[361,2]	0.497	0.425	-0.275	0.208	0.472	0.758
##	theta[362,2]	0.336	0.403	-0.396	0.070	0.311	0.576
##	theta[363,2]	0.589	0.456	-0.220	0.283	0.553	0.866
##	theta[364,2]	-0.004	0.358	-0.710	-0.236	-0.008	0.233
##	theta[365,2]	0.178	0.418	-0.579	-0.098	0.149	0.431
##	theta[366,2]	0.217	0.411	-0.522	-0.060	0.143	0.474
##	theta[367,2]		0.369				
##	theta[368,2]	0.053		-0.637 -0.226	-0.192	0.038	0.284
	•	0.573	0.459		0.270	0.535	0.846
##	theta[369,2]	0.712	0.483	-0.121	0.366	0.675	1.004
##	theta[370,2]	0.518	0.469	-0.294	0.199	0.480	0.793
##	theta[371,2]	-0.210	0.361	-0.934	-0.446	-0.203	0.027
##	theta[372,2]	0.228	0.370	-0.469	-0.010	0.215	0.453
##	theta[373,2]	-0.007	0.370	-0.720	-0.258	-0.011	0.235
##	theta[374,2]	0.475	0.444	-0.335	0.173	0.442	0.740
##	theta[375,2]	0.638	0.472	-0.167	0.314	0.595	0.923
##	theta[376,2]	0.673	0.469	-0.151	0.364	0.639	0.953
##	theta[377,2]	0.219	0.374	-0.465	-0.034	0.210	0.449
##	theta[378,2]	0.236	0.400	-0.517	-0.026	0.220	0.491

	theta[379,2]	0.456	0.426	-0.314	0.172	0.420	0.721
	theta[380,2]	-0.055	0.359	-0.772	-0.285	-0.049	0.177
	theta[381,2]	-0.216	0.363	-0.948	-0.439	-0.216	0.015
	theta[382,2]	0.290	0.394	-0.459	0.029	0.270	0.535
##	theta[383,2]	0.409	0.448	-0.397	0.115	0.379	0.681
##	theta[384,2]	0.744	0.465	-0.081	0.421	0.707	1.020
##	theta[385,2]	0.150	0.409	-0.616	-0.113	0.139	0.405
##	theta[386,2]	0.333	0.402	-0.376	0.064	0.306	0.577
##	theta[387,2]	0.235	0.380	-0.472	-0.018	0.214	0.464
##	theta[388,2]	0.020	0.370	-0.699	-0.225	0.016	0.251
##	theta[389,2]	0.518	0.464	-0.298	0.208	0.488	0.794
##	theta[390,2]	0.356	0.404	-0.375	0.089	0.333	0.595
##	theta[391,2]	0.015	0.370	-0.685	-0.226	0.000	0.250
##	theta[392,2]	-0.204	0.352	-0.919	-0.427	-0.205	0.027
##	theta[393,2]	-0.028	0.354	-0.712	-0.260	-0.033	0.194
##	theta[394,2]	0.833	0.551	-0.095	0.457	0.777	1.147
##	theta[395,2]	-0.446	0.426	-1.348	-0.697	-0.417	-0.166
##	theta[396,2]	0.839	0.547	-0.085	0.465	0.788	1.156
##	theta[397,2]	-0.446	0.443	-1.400	-0.708	-0.412	-0.161
##	theta[398,2]	0.316	0.410	-0.427	0.041	0.301	0.568
##	theta[399,2]	-0.985	0.499	-2.099	-1.287	-0.929	-0.629
##	theta[400,2]	0.377	0.441	-0.426	0.072	0.345	0.640
##	theta[401,2]	-0.239	0.355	-0.974	-0.455	-0.228	-0.006
##	theta[402,2]	0.183	0.377	-0.543	-0.060	0.176	0.420
##	theta[403,2]	0.137	0.407	-0.626	-0.126	0.119	0.385
##	theta[404,2]	0.060	0.363	-0.629	-0.175	0.054	0.293
##	theta[405,2]	0.546	0.462	-0.257	0.232	0.513	0.818
##	theta[406,2]	-1.023	0.499	-2.188	-1.311	-0.959	-0.676
##	theta[407,2]	0.140	0.383	-0.577	-0.108	0.133	0.369
##	theta[408,2]	-1.016	0.497	-2.125	-1.310	-0.965	-0.670
##	theta[409,2]	0.151	0.402	-0.628	-0.114	0.136	0.403
##	theta[410,2]	0.942	0.527	0.078	0.575	0.886	1.248
##	theta[411,2]	0.222	0.380	-0.487	-0.036	0.210	0.458
##	theta[412,2]	0.075	0.378	-0.629	-0.176	0.066	0.307
##	theta[413,2]	0.927	0.550	-0.002	0.547	0.876	1.244
##	theta[414,2]	-0.279	0.355	-1.001	-0.507	-0.275	-0.053
##	theta[415,2]	-0.497	0.462	-1.523	-0.773	-0.459	-0.191
	theta[416,2]	0.173	0.383	-0.527	-0.079	0.153	0.402
	theta[417,2]	-0.076	0.349	-0.776	-0.305	-0.080	0.148
	theta[418,2]	-0.101	0.361	-0.824	-0.332	-0.100	0.136
	theta[419,2]	0.320	0.407	-0.399	0.046	0.294	0.564
	theta[420,2]	-0.001	0.359	-0.727	-0.231	0.002	0.235
	theta[421,2]	-0.498	0.463	-1.495	-0.777	-0.457	-0.182
	theta[422,2]	0.177	0.393	-0.547	-0.091	0.159	0.425
	theta[423,2]	-0.723	0.440	-1.701	-0.985	-0.687	-0.424
	theta[424,2]	0.288	0.384	-0.440	0.031	0.278	0.527
##	theta[425,2]	0.288	0.396	-0.438	0.021	0.264	0.524
##	theta[426,2]	-1.028	0.502	-2.182	-1.313	-0.967	-0.672
##	theta[427,2]	0.105	0.373	-0.587	-0.141	0.099	0.333
##	theta[428,2]	0.538	0.454	-0.252	0.238	0.499	0.809
	theta[429,2]	0.509	0.447	-0.275	0.208	0.482	0.776
	theta[430,2]	0.003	0.370	-0.710	-0.234	-0.002	0.248
	theta[431,2]	0.833	0.560	-0.090	0.442	0.774	1.153
	theta[432,2]	0.268	0.426	-0.517	-0.013	0.239	0.517
ırπ	5110 0tt [402,2]	0.200	0.420	0.017	0.010	0.203	0.011

	theta[433,2]	0.264	0.425	-0.507	-0.012	0.236	0.515
##	theta[434,2]	0.622	0.481	-0.197	0.294	0.566	0.911
##	theta[435,2]	-0.671	0.452	-1.668	-0.927	-0.634	-0.363
##	theta[436,2]	-1.029	0.497	-2.148	-1.329	-0.973	-0.677
##	theta[437,2]	0.090	0.379	-0.648	-0.155	0.080	0.326
##	theta[438,2]	0.170	0.396	-0.567	-0.093	0.159	0.419
##	theta[439,2]	0.481	0.422	-0.275	0.189	0.455	0.748
##	theta[440,2]	0.473	0.446	-0.299	0.166	0.433	0.733
##	theta[441,2]	-0.444	0.447	-1.428	-0.707	-0.399	-0.145
##		-1.025	0.447	-2.147	-1.314	-0.972	-0.682
	theta[442,2]						
##	theta[443,2]	0.100	0.399	-0.662	-0.161	0.083	0.348
##	theta[444,2]	0.519	0.445	-0.271	0.223	0.486	0.779
##	theta[445,2]	0.598	0.489	-0.250	0.266	0.558	0.894
##	theta[446,2]	-1.011	0.487	-2.131	-1.297	-0.957	-0.664
##	theta[447,2]	0.415	0.419	-0.338	0.128	0.386	0.666
##	theta[448,2]	0.407	0.422	-0.352	0.118	0.387	0.662
##	theta[449,2]	-0.460	0.357	-1.205	-0.675	-0.445	-0.220
##	theta[450,2]	-0.006	0.375	-0.732	-0.241	-0.012	0.222
##	theta[451,2]	-0.175	0.359	-0.922	-0.401	-0.163	0.060
##	theta[452,2]	-0.124	0.356	-0.834	-0.348	-0.131	0.103
##	theta[453,2]	0.275	0.415	-0.484	-0.014	0.260	0.540
##	theta[454,2]	-1.016	0.502	-2.151	-1.287	-0.965	-0.668
##	theta[455,2]	0.138	0.371	-0.562	-0.106	0.126	0.372
##	theta[456,2]	0.130	0.428	-0.407	0.100	0.361	0.638
##	theta[457,2]	-0.010	0.365	-0.738	-0.244	-0.006	0.233
##	theta[458,2]	0.408	0.454	-0.408	0.101	0.379	0.673
##	theta[459,2]	0.071	0.404	-0.686	-0.203	0.051	0.318
##	theta[460,2]	0.105	0.384	-0.611	-0.144	0.093	0.333
##	theta[461,2]	0.502	0.438	-0.278	0.210	0.476	0.767
##	theta[462,2]	-0.062	0.362	-0.789	-0.293	-0.053	0.171
##	theta[463,2]	-0.092	0.349	-0.801	-0.320	-0.088	0.133
##	theta[464,2]	0.404	0.405	-0.318	0.133	0.379	0.647
##	theta[465,2]	0.356	0.414	-0.384	0.070	0.330	0.604
##	theta[466,2]	0.437	0.444	-0.324	0.133	0.404	0.698
##	theta[467,2]	0.095	0.373	-0.610	-0.150	0.086	0.330
##	theta[468,2]	0.525	0.470	-0.310	0.208	0.497	0.804
	theta[469,2]	0.096	0.381	-0.628	-0.148	0.077	0.331
	theta[470,2]						
##		0.410	0.413	-0.349	0.138	0.380	0.661
##	theta[471,2]	0.500	0.444	-0.279	0.201		0.760
##	theta[472,2]	0.521	0.461	-0.265	0.215	0.483	0.780
##	theta[473,2]	0.445	0.435	-0.314	0.145	0.413	0.705
##	theta[474,2]	0.442	0.431	-0.327	0.146	0.417	0.702
##	theta[475,2]	-0.978	0.508	-2.151	-1.261	-0.913	-0.635
##	theta[476,2]	0.700	0.480	-0.149	0.370	0.662	0.990
##	theta[477,2]	0.105	0.389	-0.653	-0.152	0.099	0.353
##	theta[478,2]	0.540	0.442	-0.241	0.241	0.513	0.809
##	theta[479,2]	0.245	0.385	-0.450	-0.013	0.232	0.483
##	theta[480,2]	0.807	0.496	-0.014	0.463	0.756	1.095
##	theta[481,2]	0.405	0.436	-0.369	0.117	0.371	0.657
##	theta[482,2]	-0.270	0.352	-1.005	-0.482	-0.258	-0.042
##	theta[483,2]	0.008	0.371	-0.723	-0.228	0.004	0.242
##	theta[484,2]	0.310	0.402	-0.433	0.039	0.299	0.558
##	theta[485,2]	0.315	0.397	-0.420	0.033	0.303	0.561
##	theta[486,2]	-0.166	0.372	-0.913	-0.403	-0.166	0.066

##	theta[487,2]	0.363	0.420	-0.382	0.079	0.335	0.603
##	theta[488,2]	0.276	0.385	-0.410	0.020	0.249	0.514
##	theta[489,2]	0.607	0.454	-0.192	0.296	0.576	0.874
##	theta[490,2]	-0.011	0.363	-0.732	-0.243	-0.012	0.217
##	theta[491,2]	-1.019	0.494	-2.114	-1.300	-0.965	-0.687
##	theta[492,2]	0.460	0.424	-0.286	0.171	0.422	0.710
##	theta[493,2]	-0.739	0.485	-1.784	-1.037	-0.698	-0.405
##	theta[494,2]	-0.051	0.360	-0.760	-0.285	-0.050	0.183
##	theta[495,2]	-0.898	0.457	-1.962	-1.156	-0.835	-0.575
##	theta[496,2]	0.132	0.398	-0.608	-0.121	0.114	0.378
##	theta[497,2]	-0.786	0.485	-1.888	-1.066	-0.733	-0.448
##	theta[498,2]	-0.788	0.475	-1.853	-1.074	-0.737	-0.452
##	theta[499,2]	-1.105	0.516	-2.277	-1.412	-1.048	-0.736
##	theta[500,2]	-0.174	0.359	-0.882	-0.403	-0.169	0.063
##	theta[501,2]	0.373	0.413	-0.391	0.102	0.357	0.617
##	theta[502,2]	-0.270	0.349	-0.977	-0.498	-0.264	-0.045
##	theta[503,2]	-0.779	0.471	-1.868	-1.040	-0.733	-0.460
##	theta[504,2]	-0.019	0.355	-0.692	-0.247	-0.025	0.199
##	theta[505,2]	-0.888	0.443	-1.875	-1.145	-0.839	-0.581
##	theta[506,2]	-1.096	0.523	-2.329	-1.393	-1.043	-0.731
##	theta[507,2]	-0.018	0.367	-0.730	-0.259	-0.020	0.212
##	theta[508,2]	0.042	0.366	-0.667	-0.201	0.037	0.277
##	theta[509,2]	-1.113	0.539	-2.335	-1.404	-1.040	-0.740
##	theta[510,2]	-0.765	0.431	-1.718	-1.021	-0.729	-0.476
##	theta[511,2]	0.287	0.388	-0.420	0.029	0.270	0.526
##	theta[512,2]	0.233	0.375	-0.465	-0.016	0.211	0.464
##	theta[513,2]	0.019	0.387	-0.753	-0.236	0.015	0.264
##	theta[514,2]	0.094	0.378	-0.600	-0.158	0.078	0.334
##	theta[515,2]	-0.162	0.355	-0.871	-0.396	-0.165	0.069
##	theta[516,2]	0.015	0.358	-0.667	-0.218	0.008	0.238
##	theta[517,2]	-0.594	0.405	-1.456	-0.828	-0.563	-0.319
##	theta[518,2]	-0.049	0.376	-0.802	-0.284	-0.057	0.197
##	theta[519,2]	-1.115	0.531	-2.347	-1.416	-1.054	-0.747
##	theta[520,2]	0.344	0.411	-0.410	0.067	0.316	0.602
##	theta[521,2]	-0.856	0.418	-1.753	-1.111	-0.819	-0.568
##	theta[522,2]	-0.841	0.450	-1.829	-1.107	-0.797	-0.535
##	theta[523,2]	-0.580	0.392	-1.414	-0.820	-0.556	-0.304
##	theta[524,2]	-1.010	0.502	-2.189	-1.289	-0.951	-0.655
##	theta[525,2]	-1.024	0.471	-2.066	-1.299	-0.969	-0.702
##	theta[526,2]	-0.848	0.440	-1.819	-1.100	-0.802	-0.548
##	theta[527,2]	0.053	0.374	-0.674	-0.194	0.048	0.291
##	theta[528,2]	0.048	0.381	-0.676	-0.207	0.043	0.279
##	theta[529,2]	-0.618	0.400	-1.492	-0.857	-0.582	-0.344
##	theta[530,2]	-0.872	0.452	-1.845	-1.140	-0.837	-0.560
##	theta[531,2]	-0.950	0.464	-2.032	-1.217	-0.899	-0.627
##	theta[532,2]	-1.104	0.540	-2.356	-1.403	-1.049	-0.737
##	theta[533,2]	0.256	0.409	-0.484	-0.016	0.237	0.505
##	theta[534,2]	-1.092	0.530	-2.284	-1.398	-1.031	-0.710
##	theta[535,2]	0.293	0.413	-0.490	0.021	0.272	0.547
##	theta[536,2]	-0.011	0.377	-0.768	-0.250	-0.017	0.219
##	theta[1,3]	0.264	0.722	-1.121	-0.208	0.213	0.702
	theta[2,3]	0.028	1.060	-2.268	-0.587	0.090	0.701
##	theta[3,3]	0.631	0.682	-0.505	0.160	0.554	1.029
	theta[4,3]	0.184	0.706	-1.204	-0.251	0.178	0.611

##	theta[5,3]	0.551	0.930	-1.091	-0.054	0.457	1.078
	theta[6,3]	-0.241	0.937	-2.143	-0.809	-0.254	0.334
##	theta[7,3]	-0.086	1.312	-2.523	-0.946	-0.145	0.695
##	theta[8,3]	0.690	1.222	-1.325	-0.113	0.532	1.374
##	theta[9,3]	-0.344	0.946	-2.290	-0.956	-0.319	0.250
##	theta[10,3]	-0.267	1.007	-2.266	-0.894	-0.272	0.349
	theta[11,3]	-0.277	0.823	-2.132	-0.708	-0.214	0.260
##	theta[12,3]	0.364	0.661	-0.884	-0.039	0.327	0.750
##	theta[13,3]	-0.036	0.692	-1.420	-0.458	-0.043	0.372
##	theta[14,3]	0.563	1.033	-1.207	-0.130	0.449	1.122
##	theta[15,3]	-0.265	0.983	-2.263	-0.882	-0.243	0.350
##	theta[16,3]	-0.221	0.707	-1.595	-0.667	-0.215	0.206
##	theta[17,3]	0.868	0.943	-0.659	0.208	0.720	1.421
##	theta[18,3]	-0.262	0.974	-2.160	-0.853	-0.279	0.314
##	theta[19,3]	-0.302	0.867	-2.025	-0.840	-0.300	0.241
##	theta[20,3]	0.169	1.407	-2.457	-0.737	0.087	1.007
##	theta[21,3]	0.055	0.851	-1.815	-0.431	0.101	0.589
##	theta[22,3]	0.171	0.686	-1.239	-0.247	0.172	0.588
##	theta[23,3]	-0.039	1.416	-3.161	-0.846	0.023	0.876
##	theta[24,3]	-0.410	0.678	-1.854	-0.820	-0.379	0.033
##	theta[25,3]	0.382	0.629	-0.815	-0.013	0.352	0.748
##	theta[26,3]	-0.109	1.454	-2.915	-1.043	-0.163	0.753
##	theta[27,3]	-0.352	0.897	-2.137	-0.879	-0.356	0.208
##	theta[28,3]	0.206	1.584	-2.677	-0.882	0.114	1.140
##	theta[29,3]	-0.451	0.853	-2.205	-0.977	-0.436	0.070
##	theta[30,3]	-0.014	1.422	-3.104	-0.856	0.051	0.888
##	theta[31,3]	-0.107	0.750	-1.733	-0.558	-0.075	0.359
##	theta[32,3]	-0.059	1.392	-3.054	-0.829	0.016	0.857
##	theta[33,3]	0.676	0.896	-1.041	0.100	0.649	1.205
##	theta[34,3]	-0.198	0.760	-1.760	-0.650	-0.181	0.279
##	theta[35,3]	0.267	0.804	-1.386	-0.219	0.267	0.782
##	theta[36,3]	-0.254	0.682	-1.701	-0.660	-0.208	0.186
##	theta[37,3]	0.100	0.658	-1.148	-0.318	0.073	0.501
##	theta[38,3]	0.604	0.677	-0.561	0.158	0.543	1.002
##	theta[39,3]	0.121	0.864	-1.764	-0.384	0.136	0.667
##	theta[40,3]	-0.658	0.882	-2.539	-1.177	-0.613	-0.096
##	theta[41,3]	-0.106	1.432	-2.797	-1.034	-0.152	0.755
##	theta[42,3]	-0.027	1.441	-3.139	-0.859	0.051	0.891
##	theta[43,3]	-0.124	1.068	-2.517	-0.709	-0.039	0.539
##	theta[44,3]	0.080	1.034	-1.823	-0.585	0.041	0.710
##	theta[45,3]	0.620	0.852	-1.018	0.065	0.599	1.132
##	theta[46,3]	0.396	0.707	-0.939	-0.050	0.375	0.811
##	theta[47,3]	-0.311	0.847	-2.003	-0.849	-0.303	0.208
##	theta[48,3]	-0.106	0.651	-1.408	-0.518	-0.110	0.299
##	theta[49,3]	-0.196	1.342	-2.842	-1.049	-0.210	0.610
##	theta[50,3]	0.205	0.778	-1.341	-0.283	0.183	0.693
##	theta[51,3]	0.041	1.413	-2.650	-0.856	-0.029	0.882
##	theta[52,3]	0.261	0.807	-1.305	-0.254	0.238	0.760
##	theta[53,3]	0.445	0.768	-0.928	-0.060	0.382	0.881
##	theta[54,3]	-0.095	0.948	-2.131	-0.648	-0.049	0.508
##	theta[55,3]	-0.197	0.664	-1.569	-0.597	-0.192	0.213
##	theta[56,3]	-0.027	1.460	-3.322	-0.878	0.043	0.921
##	theta[57,3]	0.055	1.111	-2.278	-0.577	0.107	0.754
##	theta[58,3]	-0.114	1.481	-3.017	-1.048	-0.123	0.765

##	theta[59,3]	-0.472	0.866	-2.268	-0.970	-0.447	0.055
	theta[60,3]	-0.048	0.766	-1.724	-0.491	-0.006	0.446
	theta[61,3]	-0.074	1.006	-1.923	-0.705	-0.121	0.513
##	theta[62,3]	0.031	1.403	-2.597	-0.901	-0.028	0.898
##	theta[63,3]	-0.357	0.813	-2.209	-0.802	-0.287	0.160
##	theta[64,3]	0.063	0.867	-1.893	-0.407	0.113	0.589
##	theta[65,3]	0.087	0.700	-1.418	-0.315	0.108	0.517
##	theta[66,3]	-0.005	0.692	-1.373	-0.431	-0.010	0.398
##	theta[67,3]	-0.141	0.797	-1.891	-0.585	-0.084	0.374
##	theta[68,3]	-0.102	1.475	-2.891	-1.067	-0.159	0.818
##	theta[69,3]	0.221	1.603	-2.667	-0.847	0.101	1.186
##	theta[70,3]	0.104	0.677	-1.148	-0.322	0.087	0.505
##	theta[71,3]	-0.594	0.878	-2.469	-1.130	-0.570	-0.035
##	theta[72,3]	-0.364	0.945	-2.252	-0.953	-0.354	0.217
##	theta[73,3]	0.164	1.442	-2.450	-0.762	0.085	1.004
##	theta[74,3]	-0.438	0.826	-2.447	-0.861	-0.341	0.111
##	theta[75,3]	-0.128	0.850	-1.743	-0.674	-0.124	0.373
##	theta[76,3]	0.224	1.564	-2.655	-0.824	0.100	1.175
##	theta[77,3]	-0.359	0.795	-2.011	-0.833	-0.341	0.130
##	theta[78,3]	-0.247	0.799	-2.078	-0.678	-0.181	0.274
##	theta[79,3]	-0.020	1.407	-3.180	-0.814	0.049	0.885
##	theta[80,3]	-0.039	0.716	-1.529	-0.483	-0.040	0.398
##	theta[81,3]	0.383	0.843	-1.140	-0.163	0.314	0.865
##	theta[82,3]	0.512	0.767	-0.946	0.015	0.474	0.978
##	theta[83,3]	-0.099	1.457	-2.895	-1.037	-0.138	0.791
##	theta[84,3]	0.395	0.747	-1.061	-0.079	0.362	0.847
##	theta[85,3]	0.265	0.633	-0.978	-0.128	0.258	0.664
##	theta[86,3]	0.597	0.718	-0.708	0.122	0.548	1.014
##	theta[87,3]	0.002	0.684	-1.437	-0.403	0.025	0.427
##	theta[88,3]	0.135	0.843	-1.599	-0.379	0.146	0.671
##	theta[89,3]	-0.040	1.431	-3.138	-0.851	0.060	0.901
##	theta[90,3]	0.183	0.964	-1.846	-0.391	0.214	0.811
##	theta[91,3]	0.462	0.699	-0.865	0.013	0.445	0.882
##	theta[92,3]	-0.149	0.963	-2.024	-0.735	-0.164	0.439
##	theta[93,3]	0.196	0.956	-1.859	-0.365	0.235	0.809
##	theta[94,3]	0.065	1.030	-2.121	-0.533	0.093	0.743
##	theta[95,3]	-0.027	1.422	-3.108	-0.862	0.073	0.887
##	theta[96,3]	0.018	1.051	-2.242	-0.605	0.069	0.701
##	theta[97,3]	-0.558	0.648	-1.978	-0.950	-0.512	-0.129
##	theta[98,3]	-0.382	0.999	-2.434	-1.017	-0.358	0.252
##	theta[99,3]	0.368	0.932	-1.555	-0.182	0.358	0.962
##	theta[100,3]	0.638	1.060	-1.124	-0.068	0.480	1.216
##	theta[101,3]	-0.214	0.891	-2.050	-0.766	-0.202	0.342
##	theta[102,3]	-0.648	1.309	-3.697	-1.352	-0.510	0.221
##	theta[103,3]	-0.579	0.880	-2.440	-1.108	-0.548	-0.024
##	theta[104,3]	-0.207	1.085	-2.514	-0.845	-0.149	0.503
##	theta[105,3]	0.255	0.626	-0.995	-0.133	0.247	0.631
##	theta[106,3]	-0.486	0.694	-2.012	-0.897	-0.429	-0.023
##	theta[107,3]	1.062	0.915	-0.472	0.436	0.949	1.576
##	theta[108,3]	-0.027	1.405	-3.046	-0.840	0.062	0.889
##	theta[109,3]	-0.294	0.760	-2.007	-0.725	-0.229	0.189
	theta[110,3]	0.562	0.638	-0.593	0.155	0.528	0.936
##	theta[111,3]	0.081	0.992	-1.819	-0.556	0.044	0.672
	theta[112,3]	0.184	1.547	-2.722	-0.854	0.102	1.077

##	theta[113,3]	-0.335	0.619	-1.679	-0.709	-0.296	0.070
##	theta[114,3]	-0.500	0.674	-1.934	-0.913	-0.463	-0.054
##	theta[115,3]	0.131	0.614	-1.069	-0.243	0.125	0.498
##	theta[116,3]	-0.216	1.067	-2.504	-0.856	-0.161	0.490
##	theta[117,3]	-0.095	1.448	-2.869	-1.029	-0.156	0.776
##	theta[118,3]	0.032	0.661	-1.264	-0.388	0.015	0.424
				-1.549			
##	theta[119,3]	-0.065	0.730		-0.528	-0.066	0.415
##	theta[120,3]	0.176	1.638	-2.872	-0.876	0.079	1.136
##	theta[121,3]	0.544	1.136	-1.409	-0.218	0.407	1.173
##	theta[122,3]	-0.343	0.754	-1.938	-0.816	-0.312	0.139
##	theta[123,3]	-0.230	0.901	-2.034	-0.788	-0.232	0.323
##	theta[124,3]	-0.051	1.422	-3.099	-0.890	0.019	0.855
##	theta[125,3]	-0.268	0.718	-1.867	-0.698	-0.213	0.202
##	theta[126,3]	-0.045	0.895	-1.983	-0.567	-0.005	0.531
##	theta[127,3]	-0.115	1.096	-2.481	-0.738	-0.048	0.605
##	theta[128,3]	-0.460	1.026	-2.723	-1.044	-0.385	0.208
	-						
##	theta[129,3]	0.048	0.627	-1.173	-0.366	0.033	0.437
##	theta[130,3]	0.072	0.835	-1.729	-0.438	0.105	0.606
##	theta[131,3]	-0.183	0.732	-1.681	-0.630	-0.165	0.259
##	theta[132,3]	-0.333	0.705	-1.887	-0.733	-0.277	0.133
##	theta[133,3]	-0.030	0.728	-1.435	-0.501	-0.034	0.404
##	theta[134,3]	0.189	1.405	-2.418	-0.723	0.083	1.051
##	theta[135,3]	0.035	1.295	-2.360	-0.810	-0.001	0.817
##	theta[136,3]	0.058	1.006	-2.086	-0.545	0.101	0.700
##	theta[137,3]	0.037	0.602	-1.217	-0.321	0.046	0.412
##	theta[138,3]	0.069	1.128	-2.330	-0.556	0.103	0.781
##	theta[139,3]	-0.241	1.332	-2.873	-1.091	-0.266	0.563
##		-0.118	1.099	-2.608	-0.764	-0.043	0.592
	theta[140,3]						
##	theta[141,3]	0.555	0.637	-0.589	0.140	0.507	0.935
##	theta[142,3]	-0.190	0.899	-2.114	-0.740	-0.133	0.397
##	theta[143,3]	0.067	0.963	-1.804	-0.551	0.025	0.654
##	theta[144,3]	0.046	0.882	-1.635	-0.476	0.025	0.540
##	theta[145,3]	-0.034	0.743	-1.467	-0.507	-0.043	0.419
##	theta[146,3]	-0.029	0.724	-1.547	-0.454	0.003	0.428
##	theta[147,3]	0.450	0.941	-1.469	-0.110	0.451	1.038
##	theta[148,3]	0.174	1.623	-2.824	-0.873	0.065	1.126
##	theta[149,3]	-0.405	0.719	-2.027	-0.816	-0.341	0.074
	theta[150,3]	-0.050	1.426	-3.156	-0.877	0.055	0.872
	theta[151,3]	0.404	0.816	-1.205	-0.107	0.387	0.902
	theta[151,3]	-0.341	1.057	-2.578	-0.984	-0.255	
							0.361
	theta[153,3]	-0.727	0.891	-2.717	-1.236	-0.623	-0.131
	theta[154,3]	-0.329	0.867	-2.243	-0.837	-0.243	0.254
##	theta[155,3]	0.258	0.704	-1.113	-0.188	0.233	0.702
##	theta[156,3]	0.374	1.041	-1.760	-0.256	0.381	0.988
##	theta[157,3]	-0.029	0.749	-1.657	-0.473	-0.008	0.458
##	theta[158,3]	0.199	0.721	-1.181	-0.248	0.160	0.620
##	theta[159,3]	0.340	0.671	-0.936	-0.094	0.296	0.740
##	theta[160,3]	-0.065	1.018	-2.404	-0.624	0.017	0.569
##	theta[161,3]	-0.072	0.818	-1.879	-0.521	-0.029	0.440
##	theta[162,3]	0.404	0.896	-1.412	-0.167	0.388	0.983
##	theta[163,3]	0.054	0.993	-2.051	-0.538	0.088	0.696
	theta[164,3]	0.122	1.038	-2.222	-0.465	0.172	0.782
##	theta[165,3]	0.122	1.581	-2.775	-0.851	0.172	1.172
##	theta[166,3]	-0.206	1.316	-2.814	-1.052	-0.217	0.608

	theta[167,3]	-0.176	1.139	-2.330	-0.922	-0.221	0.512
	theta[168,3]	-0.024	1.430	-3.151	-0.811	0.052	0.899
	theta[169,3]	0.233	0.908	-1.668	-0.335	0.250	0.823
	theta[170,3]	0.218	1.613	-2.724	-0.818	0.096	1.176
	theta[171,3]	-0.305	0.723	-1.812	-0.740	-0.283	0.155
##	theta[172,3]	-0.325	0.811	-2.126	-0.786	-0.254	0.210
##	theta[173,3]	-0.053	1.402	-3.109	-0.868	0.045	0.858
	theta[174,3]	0.206	0.625	-0.975	-0.210	0.175	0.589
##	theta[175,3]	-0.402	0.715	-1.908	-0.837	-0.369	0.054
##	theta[176,3]	0.022	0.668	-1.309	-0.386	0.003	0.421
##	theta[177,3]	0.266	0.704	-1.123	-0.168	0.245	0.688
##	theta[178,3]	0.214	0.866	-1.434	-0.334	0.172	0.731
##	theta[179,3]	-0.231	0.736	-1.877	-0.639	-0.191	0.241
##	theta[180,3]	-0.200	0.965	-2.355	-0.758	-0.157	0.432
##	theta[181,3]	0.692	1.230	-1.353	-0.095	0.518	1.331
##	theta[182,3]	0.027	0.758	-1.624	-0.388	0.062	0.482
##	theta[183,3]	0.455	0.638	-0.684	0.045	0.402	0.818
##	theta[184,3]	-0.628	1.288	-3.645	-1.314	-0.456	0.197
##	theta[185,3]	-0.127	1.082	-2.484	-0.740	-0.052	0.567
##	theta[186,3]	0.166	1.003	-2.029	-0.389	0.199	0.800
##	theta[187,3]	0.126	0.941	-1.738	-0.473	0.110	0.700
##	theta[188,3]	-0.032	0.708	-1.406	-0.490	-0.055	0.400
##	theta[189,3]	-0.016	1.425	-3.120	-0.844	0.068	0.908
##	theta[190,3]	-0.035	1.465	-3.243	-0.874	0.078	0.875
##	theta[191,3]	0.461	0.824	-1.184	-0.072	0.441	1.011
##	theta[192,3]	0.035	1.075	-2.317	-0.565	0.090	0.715
##	theta[193,3]	-0.559	1.123	-3.198	-1.180	-0.433	0.169
##	theta[194,3]	-0.293	0.669	-1.671	-0.691	-0.261	0.139
##	theta[195,3]	-0.429	1.053	-2.576	-1.100	-0.415	0.220
##	theta[196,3]	0.051	1.105	-2.290	-0.604	0.115	0.755
##	theta[197,3]	-0.145	1.062	-2.513	-0.717	-0.066	0.543
##	theta[198,3]	-0.038	1.440	-3.188	-0.857	0.043	0.888
##	theta[199,3]	0.221	1.258	-2.502	-0.512	0.263	0.979
##	theta[200,3]	0.494	0.757	-0.891	0.006	0.437	0.930
##	theta[201,3]	-0.051	1.396	-3.131	-0.900	0.047	0.872
##	theta[202,3]	-0.087	0.870	-1.910	-0.622	-0.058	0.474
##	theta[203,3]	-0.044	0.741	-1.643	-0.471	0.004	0.435
##	theta[204,3]	-0.324	1.090	-2.678	-0.987	-0.234	0.386
##	theta[205,3]	0.079	0.641	-1.147	-0.334	0.063	0.471
##	theta[206,3]	-0.858	0.806	-2.712	-1.306	-0.757	-0.309
##	theta[207,3]	0.411	0.738	-1.027	-0.054	0.383	0.869
##	theta[208,3]	0.769	0.791	-0.578	0.255	0.682	1.230
##	theta[209,3]	0.476	0.825	-1.177	-0.025	0.453	0.980
##	theta[210,3]	-0.028	1.419	-3.100	-0.833	0.055	0.892
##	theta[211,3]	0.037	0.825	-1.517	-0.492	-0.007	0.512
##	theta[212,3]	0.329	0.639	-0.877	-0.072	0.299	0.706
##	theta[213,3]	-0.039	1.389	-3.036	-0.860	0.033	0.871
##	theta[214,3]	-0.221	1.068	-2.536	-0.831	-0.142	0.464
##	theta[215,3]	0.124	0.968	-1.813	-0.493	0.111	0.730
##	theta[216,3]	-0.027	1.442	-3.140	-0.840	0.078	0.875
##	theta[217,3]	0.191	1.392	-2.399	-0.702	0.090	1.021
##	theta[218,3]	-0.206	0.977	-2.323	-0.785	-0.149	0.457
	theta[219,3]	0.063	0.666	-1.376	-0.328	0.086	0.480
	theta[220,3]	0.531	0.712	-0.782	0.065	0.474	0.942

##	theta[221,3]	0.192	0.670	-1.061	-0.241	0.156	0.605
##	theta[222,3]	-0.183	0.824	-2.085	-0.618	-0.113	0.336
##	theta[223,3]	-0.033	1.438	-3.051	-0.856	0.049	0.906
##	theta[224,3]	-0.099	1.436	-2.883	-1.014	-0.167	0.756
##	theta[225,3]	-0.158	0.953	-2.407	-0.666	-0.070	0.442
##	theta[226,3]	0.342	0.750	-0.988	-0.161	0.265	0.770
##	theta[227,3]	0.201	1.636	-2.964	-0.829	0.103	1.177
##	theta[228,3]	0.076	0.852	-1.515	-0.470	0.031	0.591
##	theta[229,3]	0.126	0.991	-2.047	-0.465	0.159	0.736
##	theta[230,3]	-0.024	0.644	-1.414	-0.382	-0.005	0.380
##	theta[231,3]	0.152	1.614	-2.837	-0.872	0.044	1.135
##	theta[232,3]	0.254	0.705	-1.150	-0.168	0.250	0.687
##	theta[233,3]	-0.545	0.801	-2.250	-1.017	-0.517	-0.038
##	theta[234,3]	0.202	0.956	-1.778	-0.376	0.205	0.802
##	theta[235,3]	0.252	0.819	-1.315	-0.275	0.215	0.741
##	theta[236,3]	0.202	0.806	-0.315	0.408	0.856	1.429
##	theta[237,3]	0.684	0.665	-0.498	0.235	0.635	1.083
##	theta[238,3]	-0.341	1.099	-2.758	-0.970	-0.240	0.367
##	theta[239,3]	0.214	0.761	-1.306		0.240	0.664
				-1.291	-0.256		
##	theta[240,3]	0.223	0.788		-0.282	0.201	0.712
##	theta[241,3]	0.054	0.758	-1.528	-0.399	0.071	0.529
##	theta[242,3]	-0.246	0.733	-1.948	-0.625	-0.183	0.223
##	theta[243,3]	0.306	0.769	-1.232	-0.164	0.291	0.762
##	theta[244,3]	-0.524	0.769	-2.157	-0.977	-0.501	-0.042
##	theta[245,3]	0.345	1.240	-2.215	-0.400	0.382	1.133
##	theta[246,3]	0.175	1.408	-2.378	-0.733	0.079	1.030
##	theta[247,3]	-0.240	0.893	-2.254	-0.751	-0.163	0.321
##	theta[248,3]	-0.040	0.902	-1.984	-0.563	-0.003	0.545
##	theta[249,3]	0.148	1.161	-2.061	-0.614	0.112	0.826
##	theta[250,3]	-0.309	0.945	-2.232	-0.898	-0.299	0.272
##	theta[251,3]	0.676	1.223	-1.441	-0.136	0.518	1.364
##	theta[252,3]	0.072	0.689	-1.362	-0.342	0.085	0.488
##	theta[253,3]	0.782	1.029	-0.871	0.102	0.637	1.342
##	theta[254,3]	0.498	0.806	-1.128	-0.012	0.462	1.027
##	theta[255,3]	-0.222	0.733	-1.756	-0.667	-0.189	0.234
##	theta[256,3]	-0.234	0.786	-1.923	-0.687	-0.187	0.279
##	theta[257,3]	-0.025	1.438	-3.184	-0.846	0.073	0.907
##	theta[258,3]	0.594	0.847	-0.989	0.051	0.571	1.109
	theta[259,3]	0.628	0.715	-0.676	0.159	0.563	1.039
	theta[260,3]	-0.790	0.866	-2.801	-1.270	-0.688	-0.202
##	theta[261,3]	-0.251	0.993	-2.149	-0.886	-0.264	0.344
##	theta[262,3]	-0.340	0.847	-2.120	-0.866	-0.305	0.229
##	theta[263,3]	-0.546	0.720	-2.054	-0.994	-0.508	-0.075
##	theta[264,3]	0.071	1.031	-1.866	-0.598	0.014	0.682
##	theta[265,3]	-0.325	0.837	-2.022	-0.853	-0.305	0.206
##	theta[266,3]	-0.063	0.963	-2.206	-0.601	-0.017	0.554
##	theta[267,3]	0.050	1.115	-2.313	-0.619	0.093	0.755
##	theta[268,3]	0.532	0.662	-0.637	0.093	0.475	0.913
##	theta[269,3]	-0.160	0.736	-1.828	-0.558	-0.109	0.310
##	theta[270,3]	0.338	0.768	-1.201	-0.151	0.343	0.811
##	theta[271,3]	-0.593	0.864	-2.389	-1.098	-0.564	-0.058
##	theta[272,3]	0.025	0.659	-1.333	-0.370	0.032	0.426
	theta[273,3]	0.119	1.057	-2.209	-0.457	0.176	0.780
##	theta[274,3]	0.591	0.828	-0.865	0.054	0.508	1.043
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##	theta[275,3]	-0.032	1.436	-3.279	-0.843	0.063	0.895
##	theta[276,3]	-0.074	0.642	-1.429	-0.449	-0.068	0.320
##	theta[277,3]	-0.045	0.850	-1.981	-0.498	-0.002	0.488
##	theta[278,3]	-0.034	1.411	-3.116	-0.875	0.061	0.875
##	theta[279,3]	0.032	1.104	-2.296	-0.613	0.063	0.733
##	theta[280,3]	-0.065	1.389	-3.205	-0.855	0.034	0.850
##	theta[281,3]	-0.134	1.092	-2.681	-0.734	-0.024	0.565
##	theta[282,3]	-0.026	1.384	-3.077	-0.820	0.064	0.857
##	theta[283,3]	-0.083	0.752	-1.636	-0.546	-0.061	0.385
##	theta[284,3]	0.065	1.026	-2.151	-0.526	0.109	0.722
##	theta[285,3]	0.049	0.648	-1.304	-0.353	0.066	0.474
##	theta[286,3]	1.022	1.050	-0.675	0.280	0.874	1.608
##		0.325	0.700	-1.070	-0.111	0.322	0.758
	theta[287,3]						
##	theta[288,3]	-0.361	0.934	-2.425	-0.883	-0.288	0.257
##	theta[289,3]	-0.056	0.728	-1.669	-0.456	-0.020	0.399
##	theta[290,3]	0.123	1.015	-2.060	-0.485	0.158	0.751
##	theta[291,3]	0.212	1.568	-2.555	-0.819	0.094	1.154
##	theta[292,3]	0.084	0.766	-1.429	-0.408	0.084	0.547
##	theta[293,3]	0.073	0.594	-1.092	-0.295	0.055	0.434
##	theta[294,3]	-0.519	0.801	-2.215	-1.006	-0.473	0.003
##	theta[295,3]	-0.132	1.108	-2.545	-0.753	-0.046	0.578
##	theta[296,3]	0.639	1.057	-1.079	-0.071	0.488	1.217
##	theta[297,3]	0.068	1.064	-1.886	-0.631	0.021	0.676
##	theta[298,3]	-0.346	0.703	-1.837	-0.775	-0.319	0.115
##	theta[299,3]	0.904	0.996	-0.710	0.220	0.752	1.464
##	theta[300,3]	0.290	0.805	-1.295	-0.204	0.292	0.800
##	theta[301,3]	0.012	1.105	-2.413	-0.654	0.074	0.721
##	theta[302,3]	-0.140	1.064	-2.530	-0.735	-0.042	0.539
##	theta[303,3]	0.251	0.733	-1.231	-0.171	0.263	0.672
##	theta[304,3]	0.541	0.834	-0.938	-0.014	0.469	1.038
##	theta[305,3]	0.379	0.927	-1.523	-0.179	0.377	0.964
##	theta[306,3]	-0.545	0.788	-2.366	-0.974	-0.458	-0.025
##	theta[307,3]	0.069	0.754	-1.391	-0.421	0.051	0.525
##	theta[308,3]	-0.152	0.754	-1.544	-0.562	-0.156	0.260
##					-0.302		
	theta[309,3]	-0.210	1.229	-2.641		-0.216	0.518
##	theta[310,3]	-0.324	0.714	-1.791	-0.761	-0.293	0.131
	theta[311,3]	-0.209	0.768	-1.873	-0.625	-0.181	0.250
##	theta[312,3]	-0.210	1.322	-2.838	-1.075	-0.240	0.589
##	theta[313,3]	0.207	0.803	-1.592	-0.235	0.228	0.679
##	theta[314,3]	-0.389	0.755	-1.944	-0.845	-0.370	0.087
##	theta[315,3]	0.145	0.914	-1.849	-0.394	0.163	0.724
##	theta[316,3]	0.172	0.720	-1.275	-0.274	0.162	0.621
##	theta[317,3]	-0.588	0.684	-2.090	-0.987	-0.551	-0.140
##	theta[318,3]	0.431	0.831	-1.262	-0.056	0.403	0.917
##	theta[319,3]	0.529	0.806	-1.010	0.008	0.494	1.017
##	theta[320,3]	-0.670	0.813	-2.387	-1.160	-0.627	-0.146
##	theta[321,3]	0.186	0.727	-1.192	-0.282	0.172	0.625
##	theta[322,3]	-0.032	0.964	-2.177	-0.572	0.043	0.574
##	theta[323,3]	0.046	1.114	-2.414	-0.579	0.098	0.725
##	theta[324,3]	0.366	0.817	-1.302	-0.123	0.357	0.847
##	theta[325,3]	-0.180	0.966	-2.361	-0.677	-0.090	0.445
##	theta[326,3]	-0.538	0.706	-1.999	-0.955	-0.510	-0.081
##	theta[327,3]	0.691	1.235	-1.413	-0.119	0.537	1.349
	theta[328,3]	0.355	0.682	-1.034	-0.067	0.348	0.769
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	theta[329,3]	0.273	0.641	-1.003	-0.129	0.243	0.667
##	theta[330,3]	-0.177	0.708	-1.667	-0.607	-0.151	0.268
##	theta[331,3]	-0.557	0.703	-2.074	-0.954	-0.499	-0.108
##	theta[332,3]	0.447	0.649	-0.812	0.042	0.421	0.838
##	theta[333,3]	-0.550	0.754	-2.116	-1.021	-0.513	-0.075
##	theta[334,3]	-0.097	1.429	-2.835	-1.022	-0.122	0.756
##	theta[335,3]	0.244	0.787	-1.358	-0.233	0.252	0.701
##	theta[336,3]	-0.088	0.625	-1.414	-0.449	-0.072	0.310
##	theta[337,3]	-0.360	0.913	-2.230	-0.917	-0.364	0.175
##	theta[338,3]	-0.294	0.817	-1.949	-0.800	-0.300	0.217
##	theta[339,3]	0.418	0.665	-0.840	0.011	0.389	0.796
##	theta[340,3]	0.022	1.106	-2.372	-0.618	0.100	0.738
##	theta[341,3]	0.039	1.088	-2.312	-0.583	0.087	0.729
##	theta[342,3]	-0.080	1.445	-2.973	-1.000	-0.126	0.788
##	theta[343,3]	-0.203	1.222	-2.618	-0.968	-0.216	0.700
##	theta[344,3]	0.093	0.898	-1.755	-0.462	0.102	0.671
##	theta[345,3]	-0.224	1.228	-2.661	-0.999	-0.234	0.531
##	theta[346,3]	0.120	1.014	-2.099	-0.453	0.153	0.766
##	theta[347,3]	0.447	0.736	-0.856	-0.026	0.386	0.845
##	theta[348,3]	0.172	0.666	-1.211	-0.225	0.168	0.585
##	theta[349,3]	0.375	0.659	-0.795	-0.050	0.311	0.739
##	theta[350,3]	0.199	0.915	-1.738	-0.319	0.208	0.748
##	theta[351,3]	-0.650	1.286	-3.626	-1.364	-0.490	0.210
##	theta[352,3]	-0.522	0.772	-2.152	-1.002	-0.504	-0.026
##	theta[353,3]	-0.214	1.262	-2.668	-1.016	-0.242	0.560
##	theta[354,3]	0.038	1.118	-2.430	-0.611	0.107	0.762
##	theta[355,3]	0.115	0.702	-1.281	-0.326	0.104	0.542
##	theta[356,3]	0.181	0.865	-1.578	-0.348	0.207	0.702
##	theta[357,3]	-0.133	0.619	-1.435	-0.493	-0.117	0.250
##	theta[358,3]	-0.031	1.407	-3.057	-0.860	0.051	0.864
##	theta[359,3]	0.111	0.946	-1.884	-0.458	0.133	0.715
##	theta[360,3]	-0.038	0.702	-1.560	-0.443	-0.020	0.390
##	theta[361,3]	-0.031	0.754	-1.686	-0.470	-0.014	0.426
##	theta[362,3]	0.115	0.695	-1.339	-0.303	0.119	0.545
##	theta[363,3]	-0.058	0.996	-2.353	-0.602	0.004	0.588
##	theta[364,3]	-0.462	0.820	-2.204	-0.956	-0.437	0.042
##	theta[365,3]	0.099	0.893	-1.770	-0.430	0.124	0.653
	theta[366,3]	-0.126	0.737	-1.745	-0.527	-0.075	0.350
	theta[367,3]	-0.545	0.808	-2.267	-1.011	-0.522	-0.054
	theta[368,3]	0.162	0.904	-1.824	-0.344	0.182	0.735
	theta[369,3]	0.105	1.044	-2.229	-0.467	0.140	0.753
	theta[370,3]	0.049	1.097	-2.324	-0.608	0.101	0.731
	theta[371,3]	-0.021	0.735	-1.517	-0.472	-0.033	0.415
##	theta[372,3]	-0.675	0.799	-2.415	-1.146	-0.622	-0.156
##	theta[373,3]	-0.109	0.664	-1.486	-0.518	-0.108	0.323
##	theta[374,3]	-0.095	0.837	-1.959	-0.544	-0.032	0.432
##	theta[375,3]	-0.547	1.000	-2.899	-1.057	-0.430	0.121
##	theta[376,3]	-0.347	0.930	-2.447	-0.718	-0.430	0.121
##	theta[377,3]	-0.240	0.790	-2.44 <i>1</i> -2.381	-1.120	-0.100	-0.153
##	theta[378,3]	-0.865	0.790	-2.361 -1.760	-0.650	-0.813	
							0.167
##	theta[379,3]	-0.320	0.777	-2.072 -1.935	-0.740 -0.733	-0.250 -0.272	0.177
	theta[380,3]	-0.269	0.771	-1.835	-0.733	-0.272	0.208
##	theta[381,3]	0.139	0.714	-1.255	-0.301	0.125	0.559
##	theta[382,3]	-0.402	0.731	-1.966	-0.835	-0.368	0.057

##	theta[383,3]	0.106	1.009	-2.070	-0.491	0.141	0.724
##	theta[384,3]	-0.059	0.925	-2.205	-0.559	-0.010	0.501
##	theta[385,3]	0.276	0.887	-1.555	-0.249	0.282	0.841
##	theta[386,3]	-0.368	0.706	-1.950	-0.772	-0.328	0.090
##	theta[387,3]	-0.666	0.790	-2.314	-1.151	-0.632	-0.157
##	theta[388,3]	-0.060	0.716	-1.549	-0.503	-0.040	0.393
			1.103			0.090	0.749
##	theta[389,3]	0.037		-2.350	-0.586		
##	theta[390,3]	-0.748	0.733	-2.341	-1.186	-0.688	-0.260
##	theta[391,3]	-0.142	0.703	-1.566	-0.579	-0.143	0.289
##	theta[392,3]	-0.298	0.798	-1.874	-0.799	-0.299	0.206
##	theta[393,3]	-0.440	0.776	-2.037	-0.913	-0.426	0.060
##	theta[394,3]	-0.024	1.415	-3.023	-0.859	0.062	0.872
##	theta[395,3]	-0.222	1.218	-2.682	-0.996	-0.238	0.542
##	theta[396,3]	-0.021	1.428	-3.073	-0.836	0.048	0.870
##	theta[397,3]	-0.211	1.221	-2.570	-0.985	-0.203	0.564
##	theta[398,3]	-0.329	0.750	-1.936	-0.780	-0.284	0.154
##	theta[399,3]	0.163	1.418	-2.495	-0.755	0.058	1.018
##	theta[400,3]	0.035	1.035	-2.069	-0.621	0.086	0.700
##	theta[401,3]	0.367	0.672	-0.869	-0.065	0.329	0.755
##	theta[402,3]	0.043	0.668	-1.317	-0.357	0.046	0.468
##	theta[403,3]	0.247	0.868	-1.562	-0.266	0.256	0.791
##	theta[404,3]	0.013	0.629	-1.182	-0.389	-0.005	0.401
				-2.376			
##	theta[405,3]	-0.246	0.941		-0.750	-0.169	0.359
##	theta[406,3]	0.705	1.274	-1.457	-0.157	0.532	1.408
##	theta[407,3]	-0.411	0.690	-1.860	-0.808	-0.388	0.014
##	theta[408,3]	0.699	1.259	-1.424	-0.116	0.524	1.359
##	theta[409,3]	0.485	0.795	-1.151	0.018	0.467	0.966
##	theta[410,3]	-0.590	1.138	-3.145	-1.252	-0.461	0.162
##	theta[411,3]	-0.434	0.730	-1.977	-0.887	-0.401	0.039
##	theta[412,3]	-0.531	0.766	-2.153	-1.014	-0.492	-0.031
##	theta[413,3]	-0.651	1.305	-3.724	-1.345	-0.459	0.209
##	theta[414,3]	-0.314	0.902	-2.138	-0.871	-0.318	0.244
##	theta[415,3]	-0.214	1.300	-2.760	-1.068	-0.222	0.594
##	theta[416,3]	-0.583	0.672	-2.018	-0.977	-0.535	-0.150
##	theta[417,3]	-0.395	0.657	-1.786	-0.801	-0.376	0.016
##	theta[418,3]	0.037	0.750	-1.388	-0.431	0.004	0.481
##	theta[419,3]	-0.327	0.757	-1.973	-0.756	-0.295	0.164
	theta[420,3]	-0.078	0.651	-1.324	-0.486	-0.107	0.310
	theta[421,3]	-0.204	1.314	-2.810	-1.050	-0.217	0.596
	theta[422,3]	0.307	0.781	-1.330	-0.154	0.302	0.782
	theta[423,3]	0.022	1.272	-2.464	-0.806	-0.044	0.782
	theta[424,3]	-0.715	0.773	-2.415	-1.165	-0.673	-0.204
	theta[425,3]	-0.698	0.757	-2.306	-1.165	-0.650	-0.222
	theta[426,3]	0.714	1.236	-1.384	-0.106	0.570	1.393
##	theta[427,3]	-0.338	0.798	-1.996	-0.826	-0.320	0.166
##	theta[428,3]	-0.243	0.910	-2.269	-0.744	-0.152	0.321
##	theta[429,3]	-0.060	0.971	-2.268	-0.604	0.000	0.562
##	theta[430,3]	-0.042	0.678	-1.331	-0.483	-0.077	0.358
##	theta[431,3]	-0.029	1.443	-3.150	-0.831	0.067	0.905
##	theta[432,3]	0.147	0.917	-1.803	-0.399	0.182	0.727
##	theta[433,3]	0.119	0.924	-1.993	-0.393	0.157	0.697
##	theta[434,3]	-0.198	0.969	-2.384	-0.744	-0.118	0.429
	theta[435,3]	-0.093	1.307	-2.667	-0.934	-0.134	0.698
	theta[436,3]	0.684	1.251	-1.403	-0.150	0.517	1.358
	,						

## theta[437,3]			0 540	0 705	0.400	4 045	0 540	0 054
## theta[439,3]		- , -						
## theta[440,3]	##	theta[438,3]	0.025		-1.481	-0.387	0.035	
## theta[441,3]	##	theta[439,3]	-0.277	0.780	-2.037	-0.727		0.247
## theta[444,3]	##	theta[440,3]	-0.258	0.872	-2.171	-0.774	-0.187	0.315
## theta[444,3]	##	theta[441,3]	-0.207	1.222	-2.603	-0.975	-0.239	0.530
## theta[444,3]	##	theta[442,3]	0.716	1.256	-1.406	-0.109	0.557	1.373
## theta[444,3]	##			0.857	-1.623			0.735
## theta[445,3]		-						
## theta[446,3]		-						
## theta[447,3]								
## theta[448,3]								
## theta[449,3]								
## theta[450,3]	##	theta[448,3]	-0.153		-1.918		-0.097	0.349
## theta[451,3]	##	theta[449,3]	0.659	0.677	-0.481	0.203	0.596	1.046
## theta[452,3]	##	theta[450,3]	-0.464	0.690	-1.911	-0.877	-0.442	-0.005
## theta[453,3]	##	theta[451,3]	-0.348	0.847	-2.063	-0.881	-0.340	0.169
## theta[454,3]	##	theta[452,3]	-0.158	0.671	-1.539	-0.571	-0.167	0.255
## theta[455,3]	##	theta[453,3]	0.270	0.961	-1.723	-0.316	0.251	0.866
## theta[455,3]	##	theta[454,3]	0.694	1.256	-1.434	-0.112	0.531	1.367
## theta[456,3]	##	-		0.698	-1.956	-0.851		0.006
## theta[457,3]	##							
## theta[458,3]								
## theta[459,3]								
## theta[460,3]		-						
## theta[461,3]		-						
## theta[462,3]								
## theta[463,3]		-						
## theta[464,3]		-						
## theta[465,3]								
## theta[466,3]	##	-		0.745	-1.673			0.364
## theta[467,3]	##	theta[465,3]	-0.269	0.729	-1.825	-0.681		0.201
## theta[468,3]	##	theta[466,3]	-0.104	0.896	-2.157	-0.578	-0.039	0.457
## theta[469,3]	##	theta[467,3]	-0.289	0.697	-1.721	-0.712	-0.278	0.141
## theta[470,3]	##	theta[468,3]	0.045	1.124	-2.400	-0.601	0.057	0.748
## theta[470,3]	##	theta[469,3]	0.063	0.688	-1.348	-0.340	0.081	0.503
## theta[471,3]	##	-	-0.107		-1.728	-0.497	-0.073	0.347
## theta[472,3]	##							
## theta[473,3]		-						
## theta[474,3]								
## theta[475,3]		-						
## theta[476,3]								
## theta[477,3]		-						
## theta[478,3]								
## theta[479,3]								
## theta[480,3]								
## theta[481,3]								
## theta[482,3]	##							
## theta[483,3]	##	theta[481,3]	0.034	0.929	-1.991	-0.493	0.080	0.625
## theta[484,3]	##	theta[482,3]	0.162	0.757	-1.238	-0.323	0.118	0.597
## theta[485,3]	##	theta[483,3]	0.320	0.666	-0.921	-0.101	0.285	0.707
## theta[485,3]	##	theta[484,3]	-0.320	0.746	-1.929	-0.745	-0.292	0.145
## theta[486,3] 0.086 0.647 -1.186 -0.322 0.064 0.488 ## theta[487,3] -0.310 0.776 -2.034 -0.751 -0.249 0.193 ## theta[488,3] -0.695 0.779 -2.348 -1.160 -0.652 -0.181 ## theta[489,3] -0.061 0.882 -2.060 -0.536 -0.006 0.483	##				-1.912			
## theta[487,3]	##							
## theta[488,3]								
## theta[489,3] -0.061 0.882 -2.060 -0.536 -0.006 0.483								
"" one one 100,01 0.200 0.100 1.100 0.100 0.204 0.204								
	ıı·π	5110 0 a [400 , 0]	0.200	0.700	1.700	0.100	0.204	0.204

	theta[491,3]	0.694	1.255	-1.364	-0.138	0.554	1.379
	theta[492,3]	-0.354	0.737	-2.061	-0.752	-0.295	0.118
	theta[493,3]	-0.101	1.438	-2.910	-1.027	-0.156	0.806
##	theta[494,3]	0.462	0.803	-1.072	-0.058	0.435	0.968
##	theta[495,3]	0.651	1.093	-1.154	-0.078	0.508	1.235
##	theta[496,3]	0.290	0.734	-1.167	-0.143	0.289	0.721
##	theta[497,3]	0.453	1.241	-1.650	-0.367	0.298	1.154
##	theta[498,3]	0.035	1.401	-2.609	-0.886	-0.032	0.857
##	theta[499,3]	0.732	1.351	-1.540	-0.160	0.562	1.463
##	theta[500,3]	-0.339	0.833	-2.063	-0.856	-0.324	0.170
##	theta[501,3]	-0.239	0.733	-1.837	-0.640	-0.190	0.216
##	theta[502,3]	-0.243	0.691	-1.636	-0.658	-0.245	0.197
##	theta[503,3]	0.032	1.409	-2.596	-0.872	-0.030	0.872
##	theta[504,3]	-0.450	0.796	-2.104	-0.920	-0.415	0.052
##	theta[505,3]	0.579	1.069	-1.280	-0.131	0.466	1.176
##	theta[506,3]	0.716	1.370	-1.610	-0.173	0.542	1.443
##	theta[507,3]	-0.508	0.808	-2.138	-1.018	-0.484	0.006
##	theta[508,3]	-0.528	0.802	-2.213	-1.006	-0.498	-0.014
##	theta[509,3]	0.749	1.372	-1.569	-0.175	0.578	1.518
##	theta[510,3]	0.099	1.049	-1.900	-0.555	0.055	0.671
##	theta[511,3]	-0.718	0.769	-2.340	-1.192	-0.682	-0.201
##	theta[512,3]	-0.684	0.800	-2.496	-1.158	-0.622	-0.180
##	theta[513,3]	0.340	0.716	-1.038	-0.112	0.299	0.777
##	theta[514,3]	-0.545	0.780	-2.180	-1.010	-0.522	-0.050
##	theta[515,3]	-0.307	0.761	-1.868	-0.781	-0.305	0.157
##	theta[516,3]	-0.461	0.779	-2.068	-0.939	-0.441	0.010
##	theta[517,3]	0.021	1.112	-2.058	-0.694	-0.031	0.667
##	theta[518,3]	0.330	0.647	-0.903	-0.081	0.299	0.711
##	theta[519,3]	0.727	1.359	-1.544	-0.179	0.522	1.485
##	theta[520,3]	0.077	0.722	-1.439	-0.355	0.097	0.499
##	theta[521,3]	0.143	0.951	-1.666	-0.466	0.108	0.687
##	theta[522,3]	0.157	1.212	-2.066	-0.629	0.086	0.894
##	theta[523,3]	-0.114	1.175	-2.329	-0.877	-0.144	0.599
##	theta[524,3]	0.706	1.235	-1.376	-0.086	0.535	1.334
##	theta[525,3]	0.250	1.121	-1.852	-0.446	0.186	0.876
##	theta[526,3]	0.176	1.248	-2.114	-0.612	0.086	0.889
##	theta[527,3]	0.363	0.653	-0.870	-0.055	0.323	0.755
	theta[528,3]	0.386	0.657	-0.862	-0.028	0.351	0.772
	theta[529,3]	-0.099	1.133	-2.304	-0.812	-0.123	0.583
	theta[530,3]	0.411	1.099	-1.543	-0.301	0.302	1.009
	theta[531,3]	0.217	1.058	-1.751	-0.450	0.133	0.824
	theta[532,3]	0.155	1.605	-2.976	-0.867	0.077	1.128
	theta[533,3]	0.223	0.769	-1.394	-0.217	0.236	0.684
	theta[534,3]	0.181	1.597	-2.796	-0.836	0.065	1.127
	theta[535,3]	0.279	0.796	-1.383	-0.181	0.291	0.762
	theta[536,3]	0.431	0.667	-0.787	-0.010	0.388	0.823
	theta[1,4]	-1.178	0.741	-2.866	-1.601	-1.082	-0.654
##	theta[2,4]	0.393	0.635	-0.811	-0.014	0.368	0.795
##	theta[3,4]	0.511	0.561	-0.497	0.128	0.467	0.847
	theta[4,4]	1.118	0.845	-0.216	0.524	1.003	1.599
	theta[5,4]	-1.886	1.104	-4.388	-2.510	-1.739	-1.098
	theta[6,4]	-1.963	1.099	-4.490	-2.576	-1.834	-1.172
	theta[7,4]	-2.699	1.448	-5.996	-3.566	-2.522	-1.666
	theta[8,4]	-2.260	1.304	-5.239	-3.040	-2.101	-1.342
irm'	JII JU [U, I]	2.200	1.00-1	0.200	0.040	2.101	1.042

##	theta[9,4]	-2.332	1.233	-5.079	-3.078	-2.189	-1.431
##	theta[10,4]	-1.786	1.080	-4.230	-2.432	-1.646	-0.993
##	theta[11,4]	1.688	1.049	-0.008	0.934	1.570	2.308
##	theta[12,4]	1.708	0.935	0.191	1.027	1.609	2.267
##	theta[13,4]	-0.625	0.554	-1.827	-0.965	-0.589	-0.244
##	theta[14,4]	-2.138	1.206	-4.842	-2.859	-1.995	-1.268
##	theta[15,4]	-2.085	1.158	-4.646	-2.774	-1.949	-1.226
	theta[16,4]	-2.056	1.071	-4.494	-2.714	-1.924	-1.269
	theta[17,4]	-0.133	0.529	-1.224	-0.463	-0.141	0.208
	theta[18,4]	-1.767	1.051	-4.118	-2.411	-1.646	-0.991
	theta[19,4]	-2.088	1.114	-4.671	-2.732	-1.933	-1.274
	theta[20,4]	-2.734	1.445	-5.985	-3.610	-2.579	-1.705
	theta[21,4]	1.769	1.041	0.039	1.034	1.651	2.394
	theta[22,4]	1.129	0.843	-0.239	0.550	1.017	1.612
	theta[23,4]	2.762	1.420	0.394	1.743	2.628	3.604
			0.925	-3.859			-1.035
	theta[24,4]	-1.706			-2.236	-1.602	
	theta[25,4]	1.140	0.783	-0.106	0.584	1.041	1.605
	theta[26,4]	-3.051	1.556	-6.446	-3.963	-2.927	-1.930
	theta[27,4]	-1.469	0.918	-3.608	-1.969	-1.355	-0.824
	theta[28,4]	-3.156	1.588	-6.753	-4.086	-3.014	-2.043
	theta[29,4]	-1.857	1.057	-4.289	-2.462	-1.709	-1.076
	theta[30,4]	2.891	1.556	0.360	1.793	2.722	3.782
	theta[31,4]	-0.568	0.503	-1.648	-0.877	-0.529	-0.231
	theta[32,4]	2.746	1.480	0.342	1.677	2.585	3.645
	theta[33,4]	1.992	1.090	0.213	1.225	1.871	2.656
	theta[34,4]	-1.164	0.676	-2.740	-1.562	-1.089	-0.673
##	theta[35,4]	1.854	1.068	0.136	1.101	1.718	2.447
##	theta[36,4]	1.796	0.970	0.208	1.087	1.688	2.366
##	theta[37,4]	-1.565	0.886	-3.658	-2.079	-1.447	-0.914
##	theta[38,4]	1.641	0.924	0.152	0.970	1.527	2.170
##	theta[39,4]	2.189	1.164	0.310	1.345	2.059	2.866
##	theta[40,4]	-1.719	1.012	-4.054	-2.291	-1.578	-0.972
##	theta[41,4]	-3.014	1.505	-6.334	-3.907	-2.894	-1.931
##	theta[42,4]	2.899	1.576	0.344	1.765	2.718	3.862
##	theta[43,4]	2.048	1.182	0.083	1.230	1.921	2.753
##	theta[44,4]	-2.205	1.194	-4.892	-2.916	-2.075	-1.339
##	theta[45,4]	1.198	0.862	-0.186	0.597	1.094	1.692
##	theta[46,4]	0.062	0.500	-0.864	-0.267	0.054	0.374
##	theta[47,4]	-2.068	1.115	-4.556	-2.739	-1.936	-1.248
##	theta[48,4]	-1.825	0.966	-4.066	-2.403	-1.693	-1.121
##	theta[49,4]	-2.099	1.225	-4.735	-2.875	-1.983	-1.223
##	theta[50,4]	-1.053	0.676	-2.596	-1.434	-0.965	-0.587
	theta[51,4]	-2.094	1.304	-5.022	-2.880	-1.949	-1.156
	theta[52,4]	0.845	0.668	-0.260	0.378	0.768	1.236
##	theta[53,4]	-0.155	0.492	-1.119	-0.479	-0.155	0.166
	theta[54,4]	0.409	0.623	-0.748	-0.001	0.373	0.802
	theta[55,4]	-1.833	0.925	-3.948	-2.359	-1.722	-1.161
	theta[56,4]	2.914	1.603	0.399	1.770	2.722	3.830
	theta[57,4]	1.808	1.171	-0.047	0.966	1.671	2.466
	theta[58,4]	-2.979	1.520	-6.431	-3.861	-2.854	-1.898
	theta[59,4]	-1.654	0.989	-3.887	-2.242	-1.506	-0.945
	theta[60,4]	0.939	0.782	-0.355	0.404	0.858	1.386
	theta[61,4]	-1.975	1.124	-4.547	-2.675	-1.829	-1.157
	theta[62,4]	-2.174	1.351	-5.183	-2.983	-2.012	-1.210
				2.200			0

##	theta[63,4]	1.632	1.011	-0.021	0.907	1.507	2.245
##	theta[64,4]	1.710	1.070	-0.080	0.916	1.619	2.380
##	theta[65,4]	1.739	0.984	0.129	1.031	1.628	2.361
##	theta[66,4]	-1.707	0.925	-3.810	-2.255	-1.599	-1.042
##	theta[67,4]	1.745	1.019	0.026	1.003	1.646	2.368
##	theta[68,4]	-3.036	1.526	-6.470	-3.961	-2.887	-1.954
##	theta[69,4]	-3.221	1.614	-6.869	-4.208	-3.081	-2.077
##	theta[70,4]	-1.257	0.785	-3.030	-1.732	-1.153	-0.695
##	theta[71,4]	-1.535	0.932	-3.634	-2.076	-1.413	-0.866
##	theta[72,4]	-1.507	0.957	-3.733	-2.052	-1.362	-0.824
##	theta[73,4]	-2.818	1.507	-6.263	-3.710	-2.668	-1.748
##	theta[74,4]	1.695	1.049	-0.001	0.946	1.564	2.300
##	theta[75,4]	-1.989	1.067	-4.418	-2.638	-1.829	-1.205
##	theta[76,4]	-3.129	1.555	-6.597	-4.077	-2.987	-2.027
##	theta[77,4]	-0.204	0.482	-1.181	-0.517	-0.194	0.112
##	theta[78,4]	0.971	0.803	-0.385	0.417	0.904	1.423
##	theta[79,4]	2.841	1.538	0.301	1.749	2.666	3.751
##	theta[80,4]	-1.166	0.693	-2.747	-1.568	-1.081	-0.682
##	theta[81,4]	-1.962	1.108	-4.516	-2.620	-1.825	-1.164
##	theta[82,4]	1.170	0.821	-0.158	0.590	1.072	1.661
	theta[83,4]	-2.985	1.478	-6.245	-3.895	-2.834	-1.943
	theta[84,4]	0.807	0.668	-0.296	0.342	0.730	1.208
	theta[85,4]	1.259	0.819	-0.040	0.673	1.156	1.695
	theta[86,4]	0.037	0.499	-0.921	-0.288	0.025	0.339
##	theta[87,4]	0.139	0.489	-0.787	-0.187	0.119	0.446
##	theta[88,4]	0.105	0.461	-0.807	-0.224	0.061	0.364
##	theta[89,4]	2.807	1.488	0.270	1.794	2.664	3.696
##	theta[90,4]	1.726	1.064	-0.002	0.960	1.613	2.384
##	theta[90,4]	1.720	0.874	-0.055	0.699	1.243	1.856
##	theta[91,4]	-2.214	1.178	-4.942	-2.930	-2.082	-1.359
##	· ·						2.717
	theta[93,4]	2.004	1.153	0.135	1.160	1.902	
##	theta[94,4]	2.168	1.186	0.236	1.309	2.049	2.916
##	theta[95,4]	2.812	1.494	0.399	1.741	2.665	3.702
##	theta[96,4]	0.395	0.633	-0.784	-0.017	0.370	0.783
##	theta[97,4]	-1.538	0.849	-3.541	-2.028	-1.431	-0.930
##	theta[98,4]	-2.427	1.242	-5.180	-3.188	-2.281	-1.520
	theta[99,4]	2.349	1.182	0.411	1.489	2.268	3.063
	theta[100,4]	-1.898	1.095	-4.415	-2.553	-1.798	-1.088
	theta[101,4]	-0.536	0.571	-1.741	-0.889	-0.510	-0.156
	theta[102,4]	2.481	1.388	0.187	1.482	2.366	3.323
	theta[103,4]	-1.522	0.935	-3.750	-2.043	-1.387	-0.867
	theta[104,4]	0.563	0.689	-0.742	0.098	0.533	0.991
	theta[105,4]	0.701	0.591	-0.311	0.291	0.658	1.048
	theta[106,4]	0.008	0.500	-0.975	-0.312	0.002	0.326
	theta[107,4]	0.968	0.704	-0.210	0.486	0.896	1.381
	theta[108,4]	2.838	1.524	0.376	1.764	2.694	3.728
	theta[109,4]	1.271	0.896	-0.202	0.639	1.157	1.801
	theta[110,4]	1.350	0.851	-0.008	0.748	1.248	1.854
	theta[111,4]	-2.082	1.147	-4.701	-2.780	-1.956	-1.246
	theta[112,4]	-3.088	1.556	-6.548	-4.014	-2.942	-2.004
	theta[113,4]	-0.446	0.479	-1.455	-0.752	-0.416	-0.124
	theta[114,4]	-1.734	0.897	-3.828	-2.231	-1.610	-1.096
##	theta[115,4]	0.436	0.515	-0.519	0.088	0.407	0.746
##	theta[116,4]	0.570	0.699	-0.742	0.104	0.535	1.016

##	theta[117,4]	-2.998	1.487	-6.233	-3.941	-2.891	-1.935
##	theta[118,4]	-1.689	0.899	-3.821	-2.197	-1.562	-1.036
##	theta[119,4]	-1.181	0.671	-2.784	-1.552	-1.104	-0.722
##	theta[120,4]	-3.257	1.604	-6.746	-4.211	-3.111	-2.133
##	theta[121,4]	-1.549	1.070	-3.947	-2.177	-1.451	-0.774
##	theta[122,4]	-1.922	1.036	-4.273	-2.540	-1.780	-1.169
	theta[123,4]	-1.927	1.054	-4.340	-2.537	-1.803	-1.166
	theta[124,4]	2.790	1.507	0.326	1.708	2.657	3.670
	theta[125,4]	1.299	0.863	-0.110	0.683	1.199	1.801
	theta[126,4]	0.134	0.559	-0.961	-0.233	0.118	0.475
	theta[127,4]	1.837	1.137	-0.035	1.031	1.730	2.530
	theta[128,4]	-0.987	0.627	-2.365	-1.376	-0.935	-0.545
			0.840	-3.448			
	theta[129,4]	-1.507			-1.993	-1.401	-0.896
	theta[130,4]	1.384	0.894	-0.065	0.745	1.265	1.900
	theta[131,4]	-1.957	1.051	-4.405	-2.566	-1.812	-1.197
	theta[132,4]	-0.249	0.501	-1.312	-0.561	-0.243	0.084
	theta[133,4]	-1.029	0.749	-2.772	-1.458	-0.940	-0.513
	theta[134,4]	-2.787	1.439	-5.932	-3.663	-2.667	-1.758
	theta[135,4]	-1.921	1.224	-4.762	-2.610	-1.782	-1.054
	theta[136,4]	2.168	1.219	0.243	1.301	2.026	2.880
##	theta[137,4]	0.244	0.508	-0.701	-0.089	0.222	0.558
##	theta[138,4]	2.186	1.250	0.136	1.299	2.024	2.951
##	theta[139,4]	-2.131	1.276	-5.033	-2.888	-2.008	-1.225
##	theta[140,4]	2.643	1.334	0.381	1.696	2.534	3.489
##	theta[141,4]	1.370	0.844	-0.008	0.770	1.270	1.866
##	theta[142,4]	0.220	0.542	-0.823	-0.128	0.196	0.564
##	theta[143,4]	-2.106	1.177	-4.808	-2.828	-1.972	-1.254
##	theta[144,4]	-1.517	0.959	-3.706	-2.104	-1.410	-0.821
##	theta[145,4]	-1.936	1.047	-4.316	-2.545	-1.797	-1.190
##	theta[146,4]	0.608	0.607	-0.468	0.192	0.583	0.985
##	theta[147,4]	2.636	1.241	0.483	1.735	2.531	3.400
##	theta[148,4]	-3.141	1.602	-6.726	-4.122	-2.988	-1.999
##	theta[149,4]	0.389	0.569	-0.671	0.009	0.370	0.736
##	theta[150,4]	2.826	1.487	0.391	1.775	2.687	3.730
	theta[151,4]	2.141	1.113	0.335	1.332	2.034	2.822
	theta[152,4]	-0.109	0.524	-1.190	-0.433	-0.097	0.226
	theta[153,4]	0.167	0.571	-0.956	-0.206	0.153	0.531
	theta[154,4]	2.092	1.189	0.200	1.249	1.946	2.783
	theta[155,4]	0.725	0.594	-0.348	0.321	0.678	1.110
	theta[156,4]	2.138	1.212	0.158	1.287	2.005	2.887
	theta[157,4]	0.770	0.653	-0.397	0.317	0.725	1.179
	theta[158,4]	-1.676	0.884	-3.712	-2.181	-1.568	-1.042
	theta[159,4]	0.446	0.566	-0.601	0.065	0.411	0.790
	theta[160,4]	1.833	1.129	-0.014	1.033	1.714	2.532
	theta[161,4]	1.733	1.041	0.054	0.973	1.610	2.366
	theta[162,4]	1.360	0.901	-0.076	0.738	1.257	1.853
	theta[163,4]	2.188					
	•		1.190 1.348	0.196	1.335	2.080 2.608	2.907
	theta[164,4]	2.724		0.526	1.743		3.532
	theta[165,4]	-3.161	1.596	-6.732	-4.121	-3.050 -1.051	-2.052
	theta[166,4]	-2.103	1.282	-4.941	-2.857	-1.951	-1.195
	theta[167,4]	-2.737	1.342	-5.771	-3.592	-2.601	-1.753
	theta[168,4]	2.814	1.504	0.391	1.742	2.643	3.691
	theta[169,4]	1.696	1.021	0.104	0.968	1.559	2.275
##	theta[170,4]	-3.085	1.561	-6.516	-4.010	-2.917	-1.992

## +1 -+ - [171 4]	0.000	1 100	4 650	0 000	0 005	1 100
## theta[171,4]	-2.203	1.106	-4.650	-2.888	-2.095	-1.406
## theta[172,4]	0.305	0.574	-0.793	-0.069	0.276	0.660
## theta[173,4]	2.770	1.471	0.330	1.723	2.642	3.614
## theta[174,4]	-1.214	0.716	-2.856	-1.613	-1.124	-0.713
## theta[175,4]	-1.561	0.916	-3.660	-2.092	-1.433	-0.899
## theta[176,4]	-1.697	0.881	-3.764	-2.203	-1.584	-1.078
## theta[177,4]	0.089	0.525	-0.910	-0.250	0.062	0.425
## theta[178,4]	0.484	0.549	-0.526	0.115	0.452	0.832
## theta[179,4]	0.418	0.576	-0.627	0.028	0.380	0.768
## theta[180,4]	0.067	0.579	-1.069	-0.300	0.052	0.415
## theta[181,4]	-2.275	1.313	-5.207	-3.097	-2.151	-1.320
## theta[182,4]	1.064	0.849	-0.338	0.452	0.968	1.581
## theta[183,4]	0.927	0.721	-0.230	0.432	0.829	1.340
## theta[184,4]	2.499	1.384	0.221	1.501	2.350	3.328
## theta[185,4]	1.808	1.178	-0.134	0.980	1.679	2.504
## theta[186,4]	2.419	1.241	0.363	1.544	2.305	3.159
## theta[187,4]	0.252	0.542	-0.752	-0.109	0.226	0.570
## theta[188,4]	-1.877	1.016	-4.246	-2.437	-1.744	-1.151
## theta[189,4]	2.881	1.524	0.341	1.751	2.759	3.818
## theta[190,4]	2.876	1.536	0.337	1.809	2.710	3.776
## theta[191,4]	1.886	1.050	0.172	1.113	1.798	2.505
## theta[192,4]	1.831	1.190	-0.119	0.971	1.707	2.575
## theta[193,4]	2.121	1.229	0.128	1.222	2.004	2.873
## theta[194,4]	-1.953	0.997	-4.179	-2.534	-1.829	-1.257
## theta[195,4]	-1.783	1.098	-4.300	-2.447	-1.653	-1.011
## theta[196,4]	1.807	1.159	-0.085	0.983	1.682	2.515
## theta[197,4]	1.731	1.077	0.033	0.945	1.619	2.378
## theta[198,4]	2.821	1.494	0.450	1.736	2.633	3.712
## theta[199,4]	1.833	1.203	-0.101	0.991	1.709	2.535
## theta[200,4]	0.060	0.466	-0.835	-0.237	0.047	0.343
## theta[201,4]	2.768	1.458	0.375	1.750	2.635	3.657
## theta[202,4]	0.615	0.631	-0.533	0.188	0.583	0.990
## theta[203,4]	1.619	0.992	0.045	0.899	1.497	2.206
## theta[204,4]	0.157	0.606	-1.014	-0.238	0.142	0.525
## theta[205,4]	-1.617	0.851	-3.634	-2.094	-1.507	-1.016
## theta[206,4]	-1.315	0.732	-3.031	-1.723	-1.220	-0.801
## theta[207,4]	1.233	0.850	-0.163	0.632	1.136	1.737
## theta[208,4]	1.318	0.819	0.032	0.738	1.227	1.793
## theta[209,4]	1.567	0.967	-0.008	0.864	1.464	2.132
## theta[210,4]	2.820	1.469	0.381	1.780	2.667	3.692
## theta[211,4]	-1.862	1.073	-4.313	-2.518	-1.740	-1.089
## theta[212,4]	0.545	0.563	-0.449	0.158	0.510	0.895
## theta[213,4]	2.755	1.471	0.327	1.733	2.579	3.627
## theta[214,4]	0.561	0.684	-0.724	0.110	0.532	0.976
## theta[215,4]	0.260	0.552	-0.774	-0.098	0.230	0.585
## theta[216,4]	2.844	1.486	0.384	1.797	2.681	3.719
## theta[217,4]	-2.796	1.492	-6.051	-3.707	-2.667	-1.734
## theta[218,4]	0.047	0.571	-1.089	-0.315	0.031	0.408
## theta[219,4]	1.723	0.923	0.268	1.070	1.608	2.241
## theta[220,4]	0.032	0.479	-0.891	-0.287	0.020	0.338
## theta[221,4]	-1.238	0.718	-2.881	-1.652	-1.143	-0.742
## theta[222,4]	1.184	0.900	-0.290	0.565	1.073	1.711
## theta[223,4]	2.834	1.502	0.353	1.753	2.709	3.746
## theta[224,4]	-3.013	1.491	-6.346	-3.947	-2.899	-1.936
0	0.010		0.010	0.01		

##	theta[225,4]	1.616	1.051	-0.131	0.869	1.517	2.271
##	theta[226,4]	-1.746	0.968	-3.936	-2.307	-1.611	-1.044
##	theta[227,4]	-3.231	1.629	-7.019	-4.205	-3.060	-2.061
##	theta[228,4]	-1.933	1.078	-4.470	-2.542	-1.784	-1.160
##	theta[229,4]	1.896	1.118	0.079	1.104	1.789	2.555
##	theta[230,4]	1.193	0.828	-0.131	0.610	1.089	1.651
##	theta[231,4]	-3.174	1.667	-7.033	-4.149	-3.023	-2.019
##	theta[232,4]	1.045	0.791	-0.260	0.481	0.960	1.512
##	theta[233,4]	-1.958	1.028	-4.272	-2.556	-1.814	-1.227
##	theta[234,4]	-0.266	0.525	-1.372	-0.595	-0.254	0.069
##	theta[235,4]	0.082	0.506	-0.890	-0.246	0.065	0.393
##	theta[236,4]	1.187	0.750	-0.038	0.649	1.113	1.634
##	theta[237,4]	1.154	0.771	-0.098	0.614	1.048	1.601
##	theta[238,4]	0.142	0.607	-1.066	-0.232	0.135	0.515
##	theta[239,4]	-1.822	0.987	-4.002	-2.401	-1.723	-1.107
##	theta[240,4]	0.049	0.490	-0.909	-0.274	0.030	0.367
##	theta[241,4]	1.609	0.965	0.030	0.922	1.494	2.187
##	theta[242,4]	1.136	0.847	-0.290	0.533	1.050	1.622
##	theta[243,4]	0.806	0.754	-0.440	0.276	0.704	1.244
##	theta[244,4]	-1.843	0.979	-4.063	-2.405	-1.713	-1.133
##	theta[245,4]	2.632	1.394	0.343	1.642	2.485	3.481
##	theta[246,4]	-2.747	1.428	-5.905	-3.669	-2.627	-1.721
##	theta[247,4]	0.085	0.555	-0.986	-0.272	0.076	0.429
##	theta[248,4]	1.803	1.062	0.064	1.024	1.697	2.437
##	theta[249,4]	-2.194	1.242	-5.001	-2.980	-2.045	-1.294
##	theta[250,4]	-2.029	1.123	-4.642	-2.721	-1.890	-1.195
##	theta[251,4]	-2.299	1.310	-5.247	-3.061	-2.136	-1.373
##	theta[252,4]	1.493	0.929	0.035	0.814	1.396	2.032
##	theta[253,4]	-1.478	1.042	-3.852	-2.094	-1.369	-0.738
##	theta[254,4]	1.729	0.992	0.120	1.024	1.605	2.314
##	theta[255,4]	-0.718	0.594	-2.018	-1.099	-0.676	-0.303
##	theta[256,4]	0.176	0.531	-0.854	-0.168	0.157	0.504
##	theta[257,4]	2.844	1.514	0.353	1.765	2.687	3.754
##	theta[258,4]	2.011	1.095	0.266	1.223	1.880	2.652
##	theta[259,4]	0.735	0.682	-0.372	0.271	0.646	1.106
##	theta[260,4]	-0.720	0.558	-1.942	-1.053	-0.684	-0.345
	theta[261,4]	-2.077	1.151	-4.650	-2.792	-1.941	-1.247
	theta[262,4]	-0.937	0.614	-2.356	-1.284	-0.878	-0.518
	theta[263,4]	-1.819	0.953	-4.043	-2.350	-1.695	-1.139
	theta[264,4]	-2.266	1.209	-4.965	-2.995	-2.118	-1.387
	theta[265,4]	-2.142	1.152	-4.715	-2.849	-1.997	-1.307
	theta[266,4]	1.501	1.132	-0.197	0.756	1.399	2.096
	theta[267,4]			-0.197			
	-	1.812	1.174		0.974	1.692	2.474
	theta[268,4]	0.849	0.659	-0.223	0.390	0.769	1.226
	theta[269,4]	1.173	0.845	-0.206	0.569	1.076	1.680
##	theta[270,4]	1.498	0.939	0.032	0.818	1.374	2.032
##	theta[271,4]	-1.482	0.920	-3.588	-1.974	-1.353	-0.822
##	theta[272,4]	0.066	0.474	-0.828	-0.255	0.051	0.372
##	theta[273,4]	2.747	1.338	0.521	1.786	2.612	3.575
##	theta[274,4]	0.329	0.536	-0.664	-0.028	0.299	0.658
	theta[275,4]	2.808	1.485	0.345	1.759	2.642	3.692
	theta[276,4]	0.219	0.493	-0.723	-0.105	0.192	0.521
	theta[277,4]	1.894	1.096	0.086	1.109	1.797	2.562
##	theta[278,4]	2.875	1.531	0.407	1.767	2.714	3.795

	theta[279,4]	1.759	1.125	-0.067	0.966	1.631	2.457
##	theta[280,4]	2.732	1.443	0.359	1.698	2.606	3.577
##	theta[281,4]	2.025	1.195	0.037	1.153	1.913	2.746
##	theta[282,4]	2.760	1.449	0.372	1.711	2.607	3.628
##	theta[283,4]	-1.173	0.691	-2.790	-1.571	-1.084	-0.684
##	theta[284,4]	2.212	1.201	0.234	1.356	2.079	2.951
##	theta[285,4]	0.575	0.555	-0.376	0.195	0.530	0.910
##	theta[286,4]	0.174	0.558	-0.927	-0.179	0.167	0.501
##	theta[287,4]	0.595	0.575	-0.452	0.201	0.560	0.942
##	theta[288,4]	0.115	0.592	-1.020	-0.263	0.104	0.477
##	theta[289,4]	0.040	0.519	-1.003	-0.299	0.032	0.369
##	theta[290,4]	1.290	1.003	-0.351	0.579	1.180	1.843
##	theta[291,4]	-3.145	1.564	-6.521	-4.109	-3.007	-2.049
##	theta[292,4]	1.101	0.763	-0.123	0.569	1.009	1.522
##	theta[293,4]	-1.017	0.666	-2.518	-1.408	-0.935	-0.550
##	theta[294,4]	-1.956	1.048	-4.323	-2.571	-1.805	-1.203
##	theta[295,4]	1.846	1.156	-0.042	0.996	1.721	2.569
##	theta[296,4]	-1.888	1.142	-4.431	-2.532	-1.763	-1.070
##	theta[297,4]	-1.945	1.180	-4.592	-2.668	-1.837	-1.101
##	theta[298,4]	-1.305	0.750	-3.073	-1.723	-1.198	-0.774
##	theta[299,4]	-0.116	0.542	-1.206	-0.460	-0.109	0.231
##	theta[300,4]	1.670	1.012	0.026	0.942	1.572	2.296
##	theta[301,4]	1.782	1.145	-0.083	0.928	1.665	2.480
##	theta[302,4]	1.719	1.115	-0.064	0.918	1.593	2.385
##	theta[303,4]	1.269	0.889	-0.119	0.651	1.157	1.765
##	theta[304,4]	1.296	0.781	0.011	0.744	1.220	1.759
##	theta[305,4]	2.135	1.138	0.263	1.297	2.003	2.844
##	theta[306,4]	1.498	0.952	-0.038	0.818	1.376	2.065
##	theta[307,4]	0.120	0.490	-0.781	-0.202	0.096	0.433
##	theta[308,4]	-0.791	0.562	-2.008	-1.135	-0.751	-0.396
##	theta[309,4]	-1.913	1.163	-4.490	-2.647	-1.786	-1.091
##	theta[310,4]	-1.790	0.944	-3.950	-2.342	-1.661	-1.115
##	theta[311,4]	1.538	0.978	0.013	0.833	1.418	2.110
##	theta[312,4]	-2.082	1.253	-4.827	-2.873	-1.959	-1.183
##	theta[313,4]	1.297	0.902	-0.152	0.674	1.196	1.849
##	theta[314,4]	-0.236	0.486	-1.267	-0.544	-0.227	0.093
	theta[315,4]	1.372	0.960	-0.198	0.689	1.275	1.950
	theta[316,4]	0.784	0.665	-0.298	0.323	0.701	1.190
	theta[317,4]	-1.832	0.939	-3.964	-2.383	-1.695	-1.156
	theta[318,4]			0.125			
		1.923	1.089		1.138	1.818	2.591
	theta[319,4]	1.415	0.924	-0.025	0.746	1.287	1.939
	theta[320,4]	-1.547	0.886	-3.606	-2.052	-1.436	-0.898
	theta[321,4]	1.031	0.759	-0.147	0.500	0.924	1.472
##	theta[322,4]	1.628	1.065	-0.140	0.861	1.533	2.262
##	theta[323,4]	1.837	1.185	-0.063	0.990	1.709	2.538
##	theta[324,4]	1.174	0.868	-0.230	0.559	1.073	1.660
##	theta[325,4]	1.675	1.078	-0.084	0.900	1.559	2.323
##	theta[326,4]	-1.782	0.931	-3.942	-2.312	-1.651	-1.126
##	theta[327,4]	-2.284	1.304	-5.111	-3.109	-2.173	-1.318
##	theta[328,4]	1.104	0.805	-0.192	0.522	0.997	1.562
##	theta[329,4]	1.287	0.837	-0.055	0.713	1.177	1.759
##	theta[330,4]	-0.020	0.450	-0.875	-0.324	-0.032	0.272
##	theta[331,4]	-0.358	0.496	-1.390	-0.664	-0.339	-0.039
##	theta[332,4]	1.195	0.801	-0.078	0.620	1.098	1.666

##	theta[333,4]	-1.871	0.996	-4.138	-2.456	-1.729	-1.149
##	theta[334,4]	-3.012	1.504	-6.293	-3.917	-2.897	-1.951
##	theta[335,4]	1.083	0.846	-0.313	0.502	0.979	1.561
##	theta[336,4]	0.806	0.693	-0.363	0.315	0.725	1.212
##	theta[337,4]	-1.495	0.941	-3.660	-2.032	-1.368	-0.818
##	theta[338,4]	-1.927	1.033	-4.234	-2.548	-1.799	-1.171
##	theta[339,4]	0.950	0.779	-0.304	0.389	0.854	1.383
##	theta[340,4]	1.810	1.139	-0.057	0.995	1.675	2.496
##	theta[341,4]	1.849	1.156	-0.054	1.020	1.749	2.537
##	theta[342,4]	-2.971	1.519	-6.248	-3.894	-2.842	-1.872
##	theta[343,4]	-1.882	1.156	-4.586	-2.588	-1.748	-1.050
##	theta[344,4]	0.117	0.555	-0.910	-0.266	0.116	0.472
##	theta[345,4]	-1.934	1.175	-4.502	-2.618	-1.800	-1.088
##	theta[346,4]	1.627	1.103	-0.148	0.844	1.494	2.266
##	theta[347,4]	0.569	0.554	-0.404	0.195	0.530	0.911
##	theta[348,4]	1.658	0.969	0.126	0.952	1.540	2.237
##	theta[349,4]	-0.111	0.445	-0.974	-0.404	-0.113	0.180
##	theta[350,4]	1.836	1.112	0.082	1.032	1.692	2.509
##	theta[351,4]	2.487	1.415	0.166	1.462	2.347	3.329
##	theta[352,4]	-1.848	0.968	-4.040	-2.437	-1.720	-1.141
##	theta[353,4]	-1.942	1.227	-4.601	-2.696	-1.815	-1.053
##	theta[354,4]	1.806	1.170	-0.099	0.968	1.684	2.503
##	theta[355,4]	0.789	0.708	-0.367	0.306	0.693	1.192
##	theta[356,4]	1.466	0.956	-0.100	0.787	1.335	2.004
##	theta[357,4]	0.125	0.491	-0.798	-0.197	0.111	0.431
##	theta[358,4]	2.791	1.509	0.294	1.717	2.674	3.674
##	theta[359,4]	1.929	1.117	0.122	1.128	1.803	2.606
##	theta[360,4]	1.348	0.916	-0.139	0.705	1.222	1.889
##	theta[361,4]	0.723	0.634	-0.385	0.273	0.677	1.124
##	theta[362,4]	1.598	0.956	0.078	0.902	1.480	2.155
##	theta[363,4]	1.858	1.118	0.000	1.077	1.735	2.523
##	theta[364,4]	-1.550	0.925	-3.675	-2.085	-1.432	-0.889
##	theta[365,4]	-0.056	0.548	-1.147	-0.403	-0.063	0.288
##	theta[366,4]	1.368	0.929	-0.124	0.702	1.264	1.938
##	theta[367,4]	-1.969	1.050	-4.355	-2.583	-1.825	-1.186
##	theta[368,4]	2.418	1.222	0.374	1.528	2.296	3.148
	theta[369,4]	2.704	1.297	0.507	1.790	2.608	3.480
	theta[370,4]	1.818	1.156	-0.066	0.988	1.704	2.534
	theta[371,4]	-0.100	0.465	-1.006	-0.415	-0.107	0.201
	theta[372,4]	-1.542	0.881	-3.548	-2.033	-1.403	-0.914
	theta[373,4]	0.248	0.513	-0.720	-0.100	0.240	0.568
	theta[374,4]	1.510	0.965	-0.046	0.804	1.385	2.076
	theta[375,4]	1.487	1.048	-0.184	0.726	1.377	2.112
	theta[376,4]	1.788	1.112	-0.023	0.985	1.668	2.434
	theta[377,4]	-1.522	0.888	-3.550	-2.024	-1.401	-0.888
	theta[378,4]	0.981	0.803	-0.281	0.412	0.870	1.454
	theta[379,4]	1.388	0.964	-0.131	0.706	1.269	1.932
##	theta[380,4]	-0.733	0.564	-1.917	-1.077	-0.699	-0.340
##	theta[381,4]	0.778	0.669	-0.322	0.309	0.692	1.154
	theta[382,4]	0.302	0.530	-0.663	-0.051	0.276	0.623
	theta[383,4]	1.636	1.097	-0.154	0.867	1.506	2.270
	theta[384,4]	2.393	1.191	0.367	1.533	2.307	3.134
	theta[385,4]	1.669	1.000	0.039	0.952	1.562	2.271
##	theta[386,4]	1.116	0.790	-0.164	0.547	1.024	1.583

##	theta[387,4]	-1.556	0.912	-3.616	-2.083	-1.430	-0.908
##	theta[388,4]	1.088	0.810	-0.201	0.505	0.987	1.567
##	theta[389,4]	1.821	1.170	-0.088	1.004	1.687	2.516
##	theta[390,4]	-1.434	0.805	-3.260	-1.879	-1.321	-0.873
##	theta[391,4]	0.339	0.531	-0.623	-0.025	0.314	0.671
##	theta[392,4]	-1.952	1.022	-4.275	-2.546	-1.820	-1.207
##	theta[393,4]	-1.494	0.891	-3.569	-1.980	-1.371	-0.864
##	theta[394,4]	2.813	1.462	0.345	1.769	2.667	3.681
##	theta[395,4]	-1.909	1.200	-4.656	-2.649	-1.759	-1.043
##	theta[396,4]	2.836	1.516	0.345	1.781	2.704	3.719
##	theta[397,4]	-1.948	1.191	-4.565	-2.661	-1.829	-1.090
##	theta[398,4]	1.063	0.801	-0.195	0.487	0.944	1.531
##	theta[399,4]	-2.800	1.518	-6.207	-3.692	-2.616	-1.738
##	theta[400,4]	0.378	0.634	-0.819	-0.033	0.356	0.756
##	theta[401,4]	1.226	0.801	-0.062	0.637	1.125	1.706
##	theta[402,4]	1.400	0.890	-0.036	0.754	1.294	1.924
##	theta[403,4]	1.550	1.015	-0.072	0.830	1.421	2.112
##	theta[404,4]	-1.349	0.781	-3.155	-1.789	-1.240	-0.791
##	theta[405,4]	1.340	0.968	-0.230	0.663	1.229	1.921
##	theta[406,4]	-2.288	1.319	-5.233	-3.081	-2.153	-1.370
##	theta[407,4]	-1.428	0.800	-3.287	-1.894	-1.320	-0.853
##	theta[408,4]	-2.270	1.313	-5.229	-3.023	-2.126	-1.341
##	theta[409,4]	2.122	1.101	0.316	1.340	2.001	2.795
##	theta[410,4]	2.489	1.305	0.290	1.573	2.373	3.260
##	theta[411,4]	-0.075	0.453	-1.004	-0.362	-0.067	0.216
##	theta[412,4]	-1.861	0.986	-4.123	-2.455	-1.731	-1.136
##	theta[413,4]	2.443	1.357	0.170	1.478	2.332	3.255
##	theta[414,4]	-2.177	1.124	-4.700	-2.881	-2.068	-1.359
##	theta[415,4]	-2.083	1.242	-4.776	-2.838	-1.960	-1.195
##	theta[416,4]	-1.811	0.927	-4.027	-2.341	-1.678	-1.139
##	theta[417,4]	-1.500	0.865	-3.512	-1.998	-1.380	-0.880
##	theta[418,4]	-1.651	0.950	-3.801	-2.219	-1.549	-0.970
##	theta[419,4]	1.047	0.790	-0.230	0.490	0.959	1.492
##	theta[420,4]	-1.328	0.819	-3.253	-1.778	-1.207	-0.748
##	theta[421,4]	-2.057	1.218	-4.758	-2.798	-1.945	-1.170
##	theta[422,4]	1.309	0.884	-0.103	0.689	1.208	1.811
##	theta[423,4]	-1.909	1.207	-4.620	-2.595	-1.777	-1.052
##	theta[424,4]	-1.498	0.835	-3.420	-1.996	-1.380	-0.916
##	theta[425,4]	-1.496	0.855	-3.553	-1.961	-1.371	-0.895
##	theta[426,4]	-2.265	1.331	-5.201	-3.080	-2.145	-1.303
##	theta[427,4]	-0.190	0.494	-1.172	-0.503	-0.186	0.132
##	theta[428,4]	1.362	0.989	-0.216	0.681	1.227	1.914
##	theta[429,4]	1.506	1.063	-0.193	0.753	1.399	2.126
##	theta[430,4]	-1.664	0.912	-3.813	-2.183	-1.535	-1.009
##	theta[431,4]	2.840	1.481	0.370	1.781	2.689	3.741
##	theta[432,4]	1.090	0.894	-0.388	0.448	0.989	1.620
##	theta[433,4]	1.084	0.870	-0.410	0.479	0.996	1.600
##	theta[434,4]	1.654	1.078	-0.095	0.901	1.517	2.290
##	theta[435,4]	-2.671	1.428	-5.858	-3.565	-2.541	-1.620
	theta[436,4]	-2.293	1.301	-5.208	-3.112	-2.162	-1.366
	theta[437,4]	-1.844	0.981	-4.033	-2.427	-1.698	-1.153
	theta[438,4]	1.152	0.836	-0.213	0.561	1.064	1.621
##	theta[439,4]	-0.038	0.472	-1.001	-0.334	-0.036	0.269
##	theta[440,4]	0.014	0.570	-1.092	-0.347	0.016	0.363

	theta[441,4]	-1.892	1.175	-4.508	-2.607	-1.764	-1.043
	theta[442,4]	-2.273	1.327	-5.270	-3.071	-2.120	-1.342
	theta[443,4]	0.869	0.808	-0.448	0.311	0.772	1.340
	theta[444,4]	1.691	1.071	-0.064	0.917	1.582	2.350
	theta[445,4]	2.199	1.265	0.146	1.305	2.033	2.949
##	theta[446,4]	-2.310	1.328	-5.354	-3.078	-2.163	-1.363
##	theta[447,4]	1.464	0.966	-0.090	0.777	1.349	2.037
##	theta[448,4]	1.585	1.006	-0.024	0.878	1.457	2.159
##	theta[449,4]	0.911	0.697	-0.231	0.420	0.826	1.333
##	theta[450,4]	-1.909	1.000	-4.264	-2.461	-1.772	-1.199
##	theta[451,4]	-2.012	1.084	-4.533	-2.642	-1.877	-1.230
##	theta[452,4]	-1.409	0.803	-3.264	-1.882	-1.305	-0.824
##	theta[453,4]	1.549	1.007	-0.069	0.827	1.415	2.120
##	theta[454,4]	-2.284	1.311	-5.182	-3.095	-2.154	-1.347
##	theta[455,4]	-1.225	0.806	-3.089	-1.677	-1.122	-0.663
##	theta[456,4]	1.625	1.042	-0.075	0.885	1.490	2.234
##	theta[457,4]	0.358	0.532	-0.612	-0.002	0.339	0.682
##	theta[458,4]	1.601	1.083	-0.103	0.810	1.485	2.265
##	theta[459,4]	1.634	1.001	-0.006	0.892	1.509	2.256
##	theta[460,4]	1.597	0.978	0.051	0.888	1.487	2.169
##	theta[461,4]	1.642	1.020	-0.014	0.912	1.530	2.231
##	theta[462,4]	-1.581	0.937	-3.714	-2.107	-1.462	-0.908
##	theta[463,4]	-0.588	0.530	-1.755	-0.904	-0.549	-0.234
##	theta[464,4]	0.515	0.605	-0.618	0.116	0.492	0.878
	theta[465,4]	1.273	0.902	-0.169	0.638	1.156	1.770
##	theta[466,4]	1.249	0.929	-0.264	0.584	1.145	1.798
##	theta[467,4]	-0.409	0.493	-1.420	-0.727	-0.396	-0.085
##	theta[468,4]	1.798	1.146	-0.016	0.959	1.683	2.472
##	theta[469,4]	1.551	0.967	0.004	0.846	1.443	2.120
##	theta[470,4]	1.232	0.877	-0.206	0.612	1.128	1.731
##	theta[471,4]	1.654	1.037	-0.009	0.896	1.550	2.269
##	theta[472,4]	1.523	1.035	-0.140	0.806	1.406	2.119
##	theta[473,4]	1.207	0.893	-0.249	0.573	1.115	1.746
##	theta[474,4]	1.224	0.933	-0.288	0.563	1.104	1.771
##	theta[475,4]	-2.816	1.485	-6.073	-3.743	-2.659	-1.732
##	theta[476,4]	2.080	1.203	0.094	1.220	1.948	2.844
	theta[477,4]	1.593	0.961	0.080	0.898	1.461	2.164
	theta[478,4]	0.087	0.553	-0.984	-0.277	0.078	0.438
	theta[479,4]	0.311	0.519	-0.632	-0.044	0.279	0.644
	theta[480,4]	1.756	1.077	0.003	0.985	1.628	2.413
	theta[481,4]	1.393	0.996	-0.216	0.678	1.282	1.979
	theta[482,4]	-1.737	0.982	-3.957	-2.333	-1.607	-1.038
	theta[483,4]	0.850	0.694	-0.275	0.362	0.772	1.264
	theta[484,4]	1.052	0.809	-0.253	0.487	0.944	1.512
	theta[485,4]	1.061	0.818	-0.238	0.483	0.953	1.521
	theta[486,4]	-1.589	0.842	-3.502	-2.100	-1.462	-0.966
	theta[487,4]	-0.075	0.537	-1.176	-0.409	-0.078	0.255
	theta[488,4]	-1.501	0.841	-3.468	-1.967	-1.378	-0.898
	theta[489,4]	1.921	1.090	0.147	1.117	1.815	2.607
	theta[490,4]	-0.222	0.477	-1.189	-0.528	-0.211	0.094
	theta[490,4]	-2.244	1.261	-5.011	-3.057	-2.127	-1.320
	theta[491,4]	1.398	0.922	-0.099	0.742	1.289	1.967
	theta[492,4]	-2.996	1.475	-6.197	-3.883	-2.845	-1.982
	theta[493,4]	1.509	0.955	-0.197	0.825	1.395	2.041
##	∪115 ∪α [434,4]	1.509	0.900	0.020	∪.0∠3	1.393	2.041

```
-4.576
                                                            -1.824
## theta[495,4]
                      -1.969
                                                   -2.690
                                1.156
                                                                       -1.134
                                         -0.134
  theta[496,4]
                                0.953
                                                    0.779
                                                                        2.020
                       1.456
                                                              1.347
                                                   -3.283
   theta[497,4]
                      -2.477
                                1.292
                                         -5.284
                                                             -2.387
                                                                       -1.553
   theta[498,4]
                      -2.077
                                         -4.908
                                                   -2.817
                                                             -1.948
                                1.274
                                                                       -1.174
##
   theta[499,4]
                      -2.480
                                1.367
                                         -5.516
                                                   -3.351
                                                             -2.385
                                                                       -1.503
##
   theta[500,4]
                      -1.971
                                1.040
                                         -4.349
                                                   -2.595
                                                             -1.842
                                                                       -1.203
   theta[501,4]
                       1.313
                                0.891
                                         -0.087
                                                    0.688
                                                              1.195
                                                                       1.820
   theta[502,4]
                      -1.889
                                0.989
                                         -4.089
                                                   -2.490
                                                             -1.750
                                                                       -1.165
##
   theta[503,4]
                      -2.119
                                1.345
                                         -5.192
                                                   -2.921
                                                             -1.963
                                                                       -1.160
   theta[504,4]
                      -1.486
                                0.871
                                         -3.572
                                                   -1.980
                                                             -1.366
                                                                       -0.859
   theta[505,4]
                      -2.284
                                1.253
                                         -5.129
                                                   -3.075
                                                             -2.159
                                                                       -1.352
   theta [506,4]
                      -2.534
                                1.409
                                         -5.622
                                                   -3.410
                                                             -2.406
                                                                       -1.515
   theta[507,4]
                      -2.070
                                1.065
                                         -4.444
                                                   -2.711
                                                             -1.949
                                                                       -1.295
##
   theta[508,4]
                                                   -2.569
                      -1.958
                                1.030
                                         -4.270
                                                             -1.820
                                                                       -1.220
   theta[509,4]
                                         -5.714
                                                   -3.358
                      -2.498
                                1.419
                                                             -2.341
                                                                       -1.485
   theta[510,4]
                      -1.787
                                1.163
                                         -4.416
                                                   -2.478
                                                            -1.638
                                                                       -0.949
##
   theta[511,4]
                      -1.479
                                0.826
                                         -3.302
                                                   -1.977
                                                             -1.381
                                                                       -0.876
   theta[512,4]
                      -1.554
                                0.891
                                         -3.608
                                                   -2.083
                                                             -1.440
                                                                       -0.913
   theta[513,4]
                       1.497
                                0.961
                                          0.002
                                                    0.814
                                                              1.364
                                                                        2.044
##
                                                            -1.721
##
   theta[514,4]
                      -1.862
                                1.003
                                         -4.172
                                                   -2.430
                                                                       -1.130
##
   theta[515,4]
                      -1.833
                                1.016
                                         -4.195
                                                   -2.432
                                                             -1.685
                                                                       -1.098
   theta[516,4]
                                         -3.439
                                                   -1.930
                                                             -1.328
                                                                       -0.846
                      -1.455
                                0.845
   theta[517,4]
                                         -4.068
##
                      -1.608
                                1.074
                                                   -2.238
                                                             -1.466
                                                                       -0.839
                                                    0.293
                                                              0.691
##
   theta[518,4]
                       0.774
                                0.704
                                         -0.393
                                                                        1.176
##
   theta[519,4]
                      -2.564
                                1.461
                                         -5.842
                                                   -3.429
                                                             -2.401
                                                                       -1.521
   theta[520,4]
                       1.439
                                0.961
                                         -0.109
                                                    0.754
                                                              1.342
                                                                        2.022
   theta[521,4]
                      -2.448
                                1.257
                                         -5.206
                                                   -3.200
                                                             -2.345
                                                                       -1.561
                                         -5.174
##
   theta[522,4]
                      -2.293
                                1.271
                                                   -3.028
                                                             -2.173
                                                                       -1.400
##
   theta [523,4]
                      -2.452
                                1.288
                                         -5.308
                                                   -3.252
                                                             -2.324
                                                                       -1.528
   theta[524,4]
                      -2.263
                                1.319
                                         -5.205
                                                   -3.062
                                                             -2.098
                                                                       -1.338
   theta [525,4]
                      -2.543
                                1.307
                                         -5.403
                                                   -3.364
                                                             -2.428
                                                                       -1.605
##
   theta[526,4]
                      -2.352
                                1.287
                                         -5.167
                                                   -3.136
                                                             -2.214
                                                                       -1.421
   theta[527,4]
                       1.040
                                0.786
                                         -0.222
                                                    0.497
                                                              0.950
                                                                        1.476
   theta[528,4]
                       1.042
                                0.783
                                         -0.209
                                                    0.507
                                                              0.946
                                                                        1.483
                      -2.427
                                         -5.409
                                                            -2.305
   theta[529,4]
                                1.293
                                                   -3.190
                                                                       -1.490
##
##
   theta[530,4]
                      -1.628
                                1.099
                                         -4.068
                                                   -2.279
                                                             -1.499
                                                                       -0.863
   theta[531,4]
                      -2.371
                                1.255
                                         -5.163
                                                   -3.104
                                                             -2.241
                                                                       -1.474
   theta[532,4]
                                         -6.725
                                                   -4.149
                                                             -3.065
                                                                       -1.990
##
                      -3.161
                                1.616
   theta[533,4]
                                                    1.078
                                                              1.710
##
                       1.816
                                1.027
                                          0.156
                                                                        2.426
                                                   -4.069
##
   theta[534,4]
                      -3.133
                                1.576
                                         -6.704
                                                             -2.996
                                                                       -2.012
                                                    0.941
   theta[535,4]
                       1.644
                                0.976
                                          0.016
                                                              1.551
                                                                        2.231
   theta[536,4]
                       1.382
                                0.903
                                         -0.040
                                                    0.736
                                                              1.270
                                                                        1.915
##
   theta[1,5]
                       1.255
                                0.539
                                          0.330
                                                    0.878
                                                              1.201
                                                                        1.578
   theta[2,5]
                       2.090
##
                                0.896
                                          0.627
                                                    1.471
                                                              1.980
                                                                        2.608
   theta[3,5]
                      -0.417
                                0.540
                                         -1.595
                                                   -0.751
                                                             -0.381
                                                                       -0.051
                                         -0.144
                                                    0.423
                                                              0.704
##
   theta[4,5]
                       0.735
                                0.478
                                                                        1.029
##
   theta[5,5]
                      -0.498
                                0.701
                                         -1.977
                                                   -0.910
                                                             -0.458
                                                                       -0.051
##
   theta[6,5]
                      -1.434
                                0.904
                                         -3.484
                                                   -1.965
                                                             -1.322
                                                                       -0.789
   theta[7,5]
                      -1.820
                                1.134
                                         -4.386
                                                   -2.477
                                                             -1.709
                                                                       -1.025
   theta[8,5]
                      -0.740
                                0.903
                                         -2.710
                                                   -1.270
                                                             -0.679
                                                                       -0.143
##
   theta[9,5]
                      -1.464
                                0.900
                                         -3.445
                                                   -2.010
                                                             -1.383
                                                                       -0.830
   theta[10,5]
                      -1.562
                                0.942
                                         -3.702
                                                   -2.102
                                                             -1.471
                                                                       -0.905
## theta[11,5]
                      -0.833
                                0.634
                                         -2.244
                                                   -1.192
                                                             -0.771
                                                                       -0.412
## theta[12,5]
                       0.449
                                0.435
                                         -0.384
                                                    0.161
                                                              0.431
                                                                        0.719
```

	theta[13,5]	0.032	0.455	-0.889	-0.252	0.036	0.319
	theta[14,5]	-0.566	0.770	-2.178	-1.053	-0.542	-0.065
	theta[15,5]	-1.500	0.940	-3.646	-2.031	-1.392	-0.848
##	theta[16,5]	0.066	0.490	-0.909	-0.238	0.065	0.360
##	theta[17,5]	-0.598	0.729	-2.178	-1.023	-0.563	-0.109
##	theta[18,5]	-1.533	0.943	-3.608	-2.101	-1.433	-0.866
##	theta[19,5]	-1.320	0.838	-3.215	-1.808	-1.231	-0.736
##	theta[20,5]	-1.810	1.166	-4.395	-2.514	-1.708	-1.001
##	theta[21,5]	0.494	0.526	-0.543	0.167	0.500	0.828
##	theta[22,5]	0.728	0.475	-0.136	0.413	0.695	1.008
##	theta[23,5]	2.041	1.105	0.215	1.290	1.912	2.653
##	theta[24,5]	0.982	0.499	0.105	0.654	0.941	1.276
	theta[25,5]	0.196	0.426	-0.658	-0.077	0.188	0.474
	theta[26,5]	-1.995	1.234	-4.806	-2.700	-1.880	-1.160
	theta[27,5]	-1.462	0.864	-3.415	-1.976	-1.370	-0.845
##	theta[28,5]	-2.011	1.270	-4.827	-2.744	-1.924	-1.153
##	theta[29,5]	-1.406	0.857	-3.321	-1.926	-1.307	-0.802
##	theta[30,5]	2.040	1.090	0.168	1.321	1.954	2.641
	theta[31,5]	0.531	0.463	-0.380	0.235	0.527	0.828
	theta[32,5]	2.053	1.136	0.216	1.289	1.906	2.668
	theta[33,5]	1.982	0.790	0.700	1.430	1.900	2.432
	theta[34,5]	0.858	0.492	-0.050	0.529	0.828	1.150
	-						
	theta[35,5]	1.077	0.563	0.060	0.707	1.036	1.420
	theta[36,5]	-0.330	0.495	-1.414	-0.610	-0.299	0.002
	theta[37,5]	0.536	0.425	-0.244	0.251	0.507	0.792
	theta[38,5]	-0.581	0.547	-1.771	-0.908	-0.546	-0.215
	theta[39,5]	0.794	0.563	-0.230	0.434	0.771	1.131
	theta[40,5]	-1.526	0.879	-3.496	-2.054	-1.421	-0.903
	theta[41,5]	-2.026	1.238	-4.895	-2.769	-1.923	-1.172
	theta[42,5]	2.070	1.099	0.248	1.313	1.948	2.705
##	theta[43,5]	1.197	0.761	-0.230	0.706	1.150	1.643
##	theta[44,5]	-1.332	0.944	-3.466	-1.873	-1.227	-0.699
##	theta[45,5]	1.670	0.692	0.545	1.185	1.588	2.100
##	theta[46,5]	1.375	0.564	0.426	0.978	1.325	1.709
##	theta[47,5]	-1.315	0.846	-3.174	-1.831	-1.225	-0.714
##	theta[48,5]	0.364	0.449	-0.519	0.075	0.356	0.647
##	theta[49,5]	-2.016	1.171	-4.608	-2.720	-1.918	-1.202
##	theta[50,5]	1.619	0.630	0.578	1.176	1.561	1.987
##	theta[51,5]	-1.954	1.211	-4.699	-2.643	-1.834	-1.123
##	theta[52,5]	-1.369	0.803	-3.201	-1.858	-1.284	-0.797
##	theta[53,5]	-0.821	0.698	-2.370	-1.250	-0.765	-0.345
##	theta[54,5]	1.477	0.726	0.245	0.995	1.402	1.919
##	theta[55,5]	0.777	0.472	-0.078	0.464	0.745	1.070
	theta[56,5]	2.079	1.157	0.155	1.300	1.949	2.725
	theta[57,5]	1.406	0.784	0.048	0.897	1.330	1.859
	theta[58,5]	-2.036	1.207	-4.747	-2.756	-1.949	-1.213
	theta[59,5]	-1.457	0.866	-3.421	-1.963	-1.358	-0.836
	theta[60,5]	1.109	0.545	0.162	0.733	1.067	1.441
	theta[61,5]	-1.405	0.915	-3.450	-1.940	-1.316	-0.758
	theta[62,5]	-1.959	1.184	-4.580	-2.666	-1.877	-1.122
	theta[63,5]	-0.155	0.526	-1.292	-0.456	-0.130	0.187
	theta[64,5]	0.405	0.526	-0.709	0.076	0.423	0.167
	theta[65,5]	-0.504	0.545	-1.683	-0.818	-0.454	-0.148
	theta[66,5]						
##	theta[00,5]	0.987	0.500	0.127	0.641	0.942	1.292

##	theta[67,5]	-0.512	0.528	-1.665	-0.830	-0.477	-0.155
##	theta[68,5]	-2.069	1.277	-4.998	-2.837	-1.920	-1.171
##	theta[69,5]	-2.083	1.309	-5.070	-2.846	-1.980	-1.174
##	theta[70,5]	-0.375	0.569	-1.637	-0.701	-0.327	-0.005
##	theta[71,5]	-1.549	0.871	-3.591	-2.045	-1.444	-0.937
##	theta[72,5]	-1.532	0.919	-3.641	-2.073	-1.427	-0.904
##	theta[73,5]	-1.810	1.202	-4.511	-2.501	-1.690	-0.991
##	theta[74,5]	0.288	0.513	-0.779	-0.018	0.299	0.611
##	theta[75,5]	-1.212	0.831	-3.061	-1.695	-1.129	-0.631
##	theta[76,5]	-2.041	1.299	-5.012	-2.783	-1.946	-1.153
##	theta[77,5]	-1.480	0.824	-3.334	-1.958	-1.404	-0.894
##	theta[78,5]	1.029	0.556	0.038	0.671	0.990	1.359
##	theta[79,5]	2.102	1.140	0.212	1.347	1.972	2.732
##	theta[80,5]	1.608	0.619	0.569	1.164	1.552	1.983
##	theta[81,5]	-0.555	0.693	-2.077	-0.967	-0.487	-0.095
##	theta[82,5]	1.089	0.533	0.166	0.720	1.044	1.402
##	theta[83,5]	-2.026	1.264	-4.827	-2.767	-1.911	-1.155
##	theta[84,5]	-1.174	0.764	-2.864	-1.642	-1.085	-0.633
##	theta[85,5]	-0.683	0.572	-1.971	-1.031	-0.639	-0.286
##	theta[86,5]	1.119	0.524	0.212	0.752	1.080	1.428
##	theta[87,5]	1.358	0.588	0.368	0.942	1.305	1.713
##	theta[88,5]	1.929	0.761	0.685	1.400	1.830	2.387
##	theta[89,5]	2.074	1.130	0.238	1.291	1.937	2.712
##	theta[90,5]	1.730	0.782	0.422	1.182	1.652	2.190
##	theta[91,5]	-0.253	0.483	-1.287	-0.550	-0.219	0.059
##	theta[92,5]	-1.361	0.905	-3.375	-1.905	-1.263	-0.724
##	theta[93,5]	1.319	0.691	0.097	0.862	1.273	1.733
##	theta[94,5]	1.328	0.748	0.061	0.843	1.265	1.736
##	theta[95,5]	2.087	1.131	0.204	1.327	1.951	2.718
##	theta[96,5]	2.086	0.882	0.628	1.452	1.992	2.618
##	theta[97,5]	0.514	0.425	-0.274	0.231	0.497	0.785
##	theta[98,5]	-1.511	0.939	-3.630	-2.075	-1.411	-0.843
##	theta[99,5]	1.094	0.606	0.028	0.688	1.050	1.460
##	theta[100,5]	-0.606	0.777	-2.278	-1.073	-0.558	-0.088
##	theta[101,5]	-1.571	0.891	-3.611	-2.096	-1.473	-0.942
##	theta[102,5]	1.140	0.855	-0.516	0.625	1.070	1.629
##	theta[103,5]	-1.565	0.876	-3.534	-2.085	-1.471	-0.932
	theta[104,5]	1.932	0.887	0.440	1.324	1.851	2.446
	theta[105,5]	0.647	0.429	-0.140	0.356	0.623	0.910
	theta[106,5]	-0.940	0.637	-2.402	-1.306	-0.888	-0.501
	theta[107,5]	-0.619	0.721	-2.208	-1.033	-0.578	-0.146
	theta[108,5]	2.061	1.079	0.198	1.337	1.925	2.696
	theta[109,5]	-0.496	0.518	-1.635	-0.805	-0.458	-0.136
	theta[110,5]	0.669	0.445	-0.130	0.364	0.637	0.941
##	theta[111,5]	-1.268	0.922	-3.336	-1.793	-1.175	-0.634
##	theta[112,5]	-2.015	1.258	-4.858	-2.721	-1.904	-1.203
##	theta[113,5]	-0.368	0.482	-1.424	-0.651	-0.332	-0.035
##	theta[114,5]	0.990	0.484	0.119	0.657	0.959	1.294
##	theta[115,5]	0.314	0.406	-0.479	0.049	0.313	0.564
##	theta[116,5]	1.931	0.901	0.408	1.316	1.835	2.438
	theta[117,5]	-2.038	1.210	-4.661	-2.769	-1.930	-1.224
	theta[118,5]	0.715	0.458	-0.094	0.397	0.680	1.004
	theta[119,5]	1.117	0.528	0.193	0.756	1.079	1.431
	theta[120,5]	-2.094	1.310	-4.936	-2.880	-1.997	-1.191

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##	theta[121,5]	-0.791	0.856	-2.653	-1.303	-0.739	-0.207
##	theta[122,5]	-0.783	0.644	-2.236	-1.163	-0.717	-0.338
##	theta[123,5]	-1.412	0.907	-3.456	-1.945	-1.326	-0.760
##	theta[124,5]	2.069	1.121	0.227	1.302	1.944	2.694
##	theta[125,5]	0.976	0.509	0.049	0.629	0.944	1.285
##	theta[126,5]	1.867	0.759	0.605	1.330	1.780	2.322
##	theta[127,5]	1.624	0.843	0.190	1.059	1.539	2.101
##	theta[128,5]	1.992	0.828	0.633	1.424	1.911	2.485
##	theta[129,5]	0.615	0.432	-0.164	0.323	0.588	0.879
##	theta[130,5]	1.569	0.666	0.458	1.104	1.507	1.960
##	theta[131,5]	-0.253	0.524	-1.336	-0.577	-0.232	0.079
##	theta[132,5]	0.611	0.472	-0.311	0.314	0.612	0.907
##	theta[133,5]	-0.807	0.672	-2.310	-1.194	-0.744	-0.356
##	theta[134,5]	-1.822	1.186	-4.495	-2.499	-1.726	-1.005
##	theta[135,5]	-1.806	1.102	-4.225	-2.475	-1.727	-1.046
##	theta[136,5]	1.330	0.727	0.046	0.840	1.270	1.751
##	theta[137,5]	0.694	0.439	-0.103	0.395	0.669	0.964
##	theta[138,5]	1.104	0.732	-0.279	0.647	1.068	1.529
##	theta[139,5]	-1.976	1.138	-4.504	-2.653	-1.871	-1.179
##	theta[140,5]	0.670	0.663	-0.647	0.285	0.656	1.059
##	theta[141,5]	0.008	0.439	-0.858	-0.272	0.009	0.287
##	theta[142,5]	1.438	0.678	0.285	0.978	1.392	1.841
##	theta[143,5]	-1.264	0.905	-3.290	-1.790	-1.183	-0.633
##	theta[144,5]	-0.152	0.584	-1.327	-0.519	-0.146	0.215
##	theta[145,5]	-0.110	0.511	-1.128	-0.434	-0.112	0.217
##	theta[146,5]	0.890	0.479	0.001	0.572	0.851	1.183
##			0.590	-0.319		0.802	1.175
	theta[147,5]	0.823			0.453		
##	theta[148,5]	-1.998	1.298	-4.970	-2.767	-1.875	-1.132
##	theta[149,5]	0.588	0.493	-0.430	0.289	0.579	0.896
##	theta[150,5]	2.104	1.136	0.222	1.330	1.975	2.724
##	theta[151,5]	0.940	0.548	-0.065	0.577	0.895	1.269
##	theta[152,5]	1.960	0.896	0.504	1.352	1.868	2.442
##	theta[153,5]	0.964	0.603	-0.160	0.577	0.930	1.324
##	theta[154,5]	1.044	0.605	-0.088	0.646	1.007	1.417
##	theta[155,5]	1.205	0.519	0.312	0.848	1.164	1.529
##	theta[156,5]	1.259	0.690	0.054	0.794	1.192	1.672
##	theta[157,5]	0.533	0.480	-0.377	0.224	0.526	0.832
##	theta[158,5]	1.458	0.596	0.472	1.024	1.400	1.821
##	theta[159,5]	-0.185	0.470	-1.181	-0.468	-0.164	0.127
##	theta[160,5]	0.817	0.640	-0.403	0.421	0.801	1.191
##	theta[161,5]	0.730	0.548	-0.321	0.397	0.708	1.061
##	theta[162,5]	1.876	0.757	0.625	1.337	1.799	2.336
##	theta[163,5]	1.330	0.737	0.059	0.852	1.278	1.746
				-0.581			
##	theta[164,5]	0.683	0.641		0.296	0.664	1.056
##	theta[165,5]	-2.082	1.317	-4.959	-2.872	-1.981	-1.171
##	theta[166,5]	-1.947	1.145	-4.528	-2.627	-1.824	-1.187
##	theta[167,5]	-1.665	1.030	-3.943	-2.252	-1.594	-0.953
##	theta[168,5]	2.089	1.102	0.224	1.360	1.982	2.709
##	theta[169,5]	1.712	0.737	0.532	1.191	1.611	2.155
##	theta[170,5]	-2.016	1.296	-4.888	-2.785	-1.886	-1.146
##	theta[171,5]	0.446	0.458	-0.426	0.146	0.426	0.731
##	theta[172,5]	1.242	0.637	0.143	0.806	1.190	1.622
##	theta[173,5]	2.035	1.100	0.225	1.304	1.901	2.619
##	theta[174,5]	0.199	0.427	-0.652	-0.070	0.196	0.479
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	theta[175,5]	-0.263	0.495	-1.319	-0.565	-0.244	0.059
##	theta[176,5]	0.713	0.462	-0.109	0.405	0.681	0.997
##	theta[177,5]	0.959	0.515	0.064	0.606	0.912	1.277
##	theta[178,5]	-1.375	0.833	-3.225	-1.887	-1.289	-0.784
##	theta[179,5]	0.578	0.496	-0.424	0.281	0.574	0.891
##	theta[180,5]	1.508	0.739	0.261	0.996	1.441	1.952
##	theta[181,5]	-0.717	0.876	-2.552	-1.253	-0.664	-0.133
##	theta[182,5]	0.223	0.485	-0.759	-0.081	0.231	0.536
##	theta[183,5]	0.267	0.435	-0.589	-0.012	0.251	0.543
##	theta[184,5]	1.144	0.848	-0.424	0.628	1.089	1.624
##	theta[185,5]	1.643	0.829	0.233	1.098	1.579	2.111
##	theta[186,5]	0.480	0.594	-0.751	0.130	0.478	0.837
##	theta[187,5]	-1.528	0.884	-3.465	-2.073	-1.443	-0.916
##	theta[188,5]	-0.107	0.505	-1.112	-0.429	-0.100	0.208
##	theta[189,5]	2.112	1.130	0.236	1.354	1.971	2.745
##	theta[190,5]	2.079	1.119	0.250	1.325	1.960	2.698
##	theta[191,5]	1.498	0.660	0.394	1.046	1.432	1.870
##	theta[192,5]	1.395	0.785	-0.066	0.891	1.331	1.855
##	theta[193,5]	1.102	0.740	-0.238	0.621	1.056	1.520
##	theta[194,5]	0.411	0.429	-0.389	0.133	0.397	0.684
##	theta[195,5]	-1.737	0.996	-3.957	-2.366	-1.617	-1.038
##	theta[196,5]	1.386	0.798	-0.035	0.865	1.309	1.851
##	theta[197,5]	1.625	0.807	0.228	1.085	1.556	2.082
##	theta[198,5]	2.043	1.097	0.231	1.298	1.903	2.652
##	theta[199,5]	2.148	1.015	0.516	1.441	2.032	2.752
##	theta[200,5]	-0.863	0.720	-2.451	-1.300	-0.800	-0.359
##	theta[201,5]	2.041	1.093	0.240	1.306	1.929	2.677
##	theta[202,5]	1.429	0.676	0.249	0.977	1.361	1.846
##	theta[203,5]	0.516	0.463	-0.363	0.216	0.499	0.800
##	theta[204,5]	1.944	0.859	0.444	1.357	1.867	2.470
##	theta[205,5]	0.513	0.430	-0.319	0.234	0.501	0.780
##	theta[206,5]	0.827	0.548	-0.213	0.486	0.803	1.150
##	theta[207,5]	0.765	0.478	-0.112	0.449	0.734	1.049
##	theta[208,5]	-0.621	0.624	-1.979	-1.004	-0.580	-0.209
##	theta[209,5]	1.505	0.657	0.396	1.055	1.442	1.891
##	theta[210,5]	2.071	1.095	0.252	1.341	1.947	2.716
##	theta[211,5]	-0.720	0.687	-2.177	-1.148	-0.677	-0.250
	theta[212,5]	-0.199	0.462	-1.183	-0.485	-0.178	0.110
	theta[213,5]	2.065	1.122	0.204	1.306	1.926	2.730
	theta[214,5]	1.907	0.853	0.444	1.333	1.822	2.405
	theta[215,5]	-1.537	0.903	-3.590	-2.063	-1.435	-0.895
	theta[216,5]	2.068	1.092	0.188	1.334	1.954	2.681
	theta[217,5]	-1.799	1.166	-4.287	-2.482	-1.718	-0.997
##	theta[218,5]	1.494	0.735	0.204	1.006	1.428	1.920
##	theta[219,5]	-0.324	0.481	-1.351	-0.634	-0.297	-0.001
##	theta[220,5]	1.457	0.587	0.488	1.038	1.400	1.800
##	theta[221,5]	0.572	0.446	-0.260	0.285	0.554	0.835
##	theta[222,5]	0.321	0.512	-0.694	0.003	0.321	0.627
##	theta[223,5]	2.075	1.094	0.224	1.323	1.968	2.727
##	theta[224,5]	-2.021	1.198	-4.669	-2.749	-1.906	-1.184
##	theta[225,5]	1.190	0.690	-0.037	0.741	1.151	1.600
##	theta[226,5]	0.159	0.498	-0.037	-0.159	0.153	0.472
	theta[227,5]	-2.076	1.346	-5.056	-2.835	-1.938	-1.166 -0.176
##	theta[228,5]	-0.643	0.698	-2.162	-1.051	-0.601	-0.176

	theta[229,5]	1.129	0.653	-0.043	0.688	1.087	1.525
	theta[230,5]	-0.270	0.475	-1.245	-0.564	-0.246	0.039
	theta[231,5]	-2.048	1.322	-5.091	-2.779	-1.925	-1.135
	theta[232,5]	0.313	0.446	-0.598	0.035	0.312	0.586
	theta[233,5]	-1.304	0.801	-3.151	-1.778	-1.218	-0.725
##	theta[234,5]	2.221	0.845	0.809	1.631	2.119	2.731
##	theta[235,5]	-1.288	0.825	-3.114	-1.798	-1.223	-0.706
##	theta[236,5]	-0.001	0.547	-1.127	-0.339	-0.001	0.335
##	theta[237,5]	-0.461	0.539	-1.636	-0.779	-0.441	-0.091
##	theta[238,5]	1.954	0.892	0.466	1.330	1.872	2.457
	theta[239,5]	1.471	0.618	0.444	1.036	1.394	1.842
##	theta[240,5]	-1.244	0.806	-3.040	-1.718	-1.174	-0.686
##	theta[241,5]	1.169	0.596	0.110	0.760	1.126	1.528
##	theta[242,5]	-0.146	0.480	-1.175	-0.434	-0.116	0.177
##	theta[243,5]	1.235	0.585	0.242	0.839	1.177	1.574
##	theta[244,5]	-1.286	0.790	-3.064	-1.753	-1.212	-0.711
##	theta[245,5]	2.118	1.032	0.477	1.427	1.996	2.681
##	theta[246,5]	-1.829	1.182	-4.418	-2.542	-1.727	-0.996
##	theta[247,5]	1.209	0.617	0.114	0.797	1.166	1.579
##	theta[248,5]	0.945	0.617	-0.240	0.555	0.915	1.311
##	theta[249,5]	-1.468	1.003	-3.687	-2.053	-1.378	-0.785
##	theta[250,5]	-1.473	0.896	-3.457	-2.035	-1.389	-0.823
##	theta[251,5]	-0.700	0.886	-2.514	-1.230	-0.664	-0.137
##	theta[252,5]	-0.590	0.523	-1.729	-0.890	-0.550	-0.234
##	theta[253,5]	-0.385	0.754	-1.932	-0.841	-0.374	0.090
##	theta[254,5]	1.269	0.579	0.289	0.876	1.216	1.615
##	theta[255,5]	-0.925	0.684	-2.457	-1.325	-0.859	-0.448
##	theta[256,5]	1.066	0.568	0.077	0.671	1.020	1.402
##	theta[257,5]	2.043	1.108	0.233	1.295	1.915	2.659
##	theta[258,5]	1.827	0.733	0.630	1.299	1.746	2.258
##	theta[259,5]	1.032	0.521	0.148	0.677	0.978	1.336
##	theta[260,5]	0.791	0.578	-0.343	0.430	0.761	1.137
##	theta[261,5]	-1.510	0.920	-3.547	-2.046	-1.428	-0.879
##	theta[262,5]	1.555	0.660	0.434	1.096	1.505	1.965
##	theta[263,5]	-0.806	0.632	-2.252	-1.168	-0.733	-0.366
##	theta[264,5]	-1.320	0.912	-3.344	-1.867	-1.249	-0.704
##	theta[265,5]	-0.343	0.571	-1.527	-0.684	-0.322	0.036
##	theta[266,5]	0.989	0.655	-0.234	0.587	0.956	1.362
##	theta[267,5]	1.418	0.792	0.026	0.897	1.352	1.861
##	theta[268,5]	-0.136	0.484	-1.148	-0.438	-0.121	0.174
##	theta[269,5]	0.169	0.449	-0.745	-0.110	0.181	0.455
##	theta[270,5]	0.958	0.530	0.020	0.610	0.912	1.286
##	theta[271,5]	-1.491	0.836	-3.440	-1.984	-1.390	-0.902
##	theta[272,5]	0.959	0.482	0.090	0.634	0.919	1.255
##	theta[273,5]	0.689	0.631	-0.546	0.312	0.677	1.063
##	theta[274,5]	-0.126	0.563	-1.321	-0.476	-0.112	0.232
##	theta[275,5]	2.106	1.143	0.210	1.320	1.969	2.720
##	theta[276,5]	-0.894	0.620	-2.333	-1.250	-0.821	-0.462
##	theta[277,5]	0.529	0.546	-0.554	0.193	0.524	0.864
##	theta[278,5]	2.052	1.117	0.173	1.300	1.916	2.666
##	theta[279,5]	1.412	0.796	0.029	0.889	1.329	1.867
##	theta[280,5]	2.058	1.117	0.190	1.297	1.943	2.696
##	theta[281,5]	1.199	0.758	-0.236	0.737	1.166	1.629
##	theta[282,5]	2.044	1.102	0.251	1.294	1.926	2.674

##	theta[283,5]	1.112	0.530	0.144	0.760	1.072	1.428
##	theta[284,5]	1.330	0.742	0.013	0.864	1.289	1.763
##	theta[285,5]	1.151	0.513	0.260	0.788	1.107	1.470
##	theta[286,5]	-0.697	0.808	-2.460	-1.186	-0.655	-0.171
##	theta[287,5]	0.815	0.474	-0.020	0.496	0.780	1.107
	theta[288,5]	1.337	0.702	0.105	0.867	1.281	1.761
##	theta[289,5]	1.022	0.535	0.095	0.666	0.979	1.339
##	theta[290,5]	1.829	0.797	0.475	1.278	1.761	2.304
	theta[291,5]	-2.049	1.302	-5.004	-2.823	-1.932	-1.163
##	theta[292,5]	-1.381	0.780	-3.148	-1.839	-1.282	-0.835
##	theta[293,5]	-0.016	0.438	-0.908	-0.295	-0.003	0.266
	theta[294,5]	-1.311	0.805	-3.120	-1.789	-1.208	-0.749
##	theta[295,5]	1.650	0.837	0.224	1.087	1.579	2.146
	theta[296,5]	-0.579	0.793	-2.319	-1.039	-0.532	-0.061
##	theta[297,5]	-0.333	0.713	-1.827	-0.769	-0.317	0.109
##	theta[298,5]	0.883	0.472	0.059	0.563	0.849	1.168
##	theta[299,5]	-0.614	0.765	-2.249	-1.074	-0.559	-0.112
##	theta[300,5]	1.332	0.640	0.241	0.897	1.274	1.696
##	theta[301,5]	1.416	0.799	0.029	0.885	1.350	1.877
##	theta[302,5]	1.625	0.833	0.169	1.072	1.545	2.103
##	theta[303,5]	0.220	0.460	-0.702	-0.070	0.226	0.504
##	theta[304,5]	-1.101	0.748	-2.675	-1.565	-1.029	-0.582
##	theta[305,5]	1.465	0.697	0.283	0.988	1.405	1.875
##	theta[306,5]	0.231	0.480	-0.810	-0.040	0.248	0.531
##	theta[307,5]	-1.256	0.781	-3.022	-1.714	-1.171	-0.703
##	theta[308,5]	-0.763	0.618	-2.144	-1.124	-0.719	-0.330
##	theta[309,5]	-1.829	1.083	-4.293	-2.485	-1.710	-1.076
##	theta[310,5]	-0.710	0.621	-2.098	-1.077	-0.651	-0.277
##	theta[311,5]	-1.064	0.652	-2.521	-1.458	-0.995	-0.604
##	theta[312,5]	-2.012	1.122	-4.451	-2.694	-1.925	-1.240
##	theta[313,5]	0.466	0.498	-0.504	0.167	0.462	0.778
##	theta[314,5]	-1.414	0.808	-3.316	-1.881	-1.317	-0.833
##	theta[315,5]	0.727	0.534	-0.319	0.403	0.714	1.052
##	theta[316,5]	-1.213	0.743	-2.913	-1.632	-1.139	-0.689
##	theta[317,5]	-0.434	0.512	-1.555	-0.736	-0.391	-0.087
##	theta[318,5]	0.113	0.495	-0.934	-0.179	0.127	0.430
##	theta[319,5]	1.111	0.564	0.124	0.724	1.061	1.443
##	theta[320,5]	-1.406	0.820	-3.304	-1.874	-1.304	-0.831
##	theta[321,5]	-1.268	0.766	-2.998	-1.725	-1.190	-0.729
##	theta[322,5]	1.077	0.647	-0.153	0.661	1.037	1.482
##	theta[323,5]	1.393	0.787	0.011	0.872	1.320	1.844
##	theta[324,5]	1.099	0.566	0.071	0.719	1.056	1.439
##	theta[325,5]	1.204	0.704	-0.113	0.758	1.160	1.610
##	theta[326,5]	-0.804	0.627	-2.233	-1.176	-0.732	-0.369
##	theta[327,5]	-0.735	0.910	-2.681	-1.268	-0.676	-0.153
##	theta[328,5]	0.852	0.488	-0.009	0.519	0.808	1.146
##	theta[329,5]	-0.650	0.574	-1.917	-0.991	-0.607	-0.263
##	theta[330,5]	-1.309	0.762	-3.036	-1.770	-1.221	-0.780
##	theta[331,5]	-0.898	0.625	-2.264	-1.278	-0.820	-0.464
##	theta[332,5]	-0.504	0.553	-1.692	-0.841	-0.454	-0.138
	theta[333,5]	-1.251	0.781	-3.050	-1.701	-1.159	-0.700
	theta[334,5]	-1.989	1.198	-4.686	-2.681	-1.885	-1.176
	theta[335,5]	1.051	0.558	0.059	0.674	1.004	1.382
##	theta[336,5]	-0.347	0.484	-1.411	-0.631	-0.311	-0.023

##	theta[337,5]	-1.508	0.896	-3.554	-2.041	-1.414	-0.877
##	theta[338,5]	-1.267	0.805	-3.082	-1.748	-1.196	-0.701
##	theta[339,5]	0.379	0.442	-0.474	0.084	0.363	0.658
##	theta[340,5]	1.408	0.798	-0.010	0.894	1.331	1.849
##	theta[341,5]	1.409	0.816	-0.015	0.875	1.340	1.868
##	theta[342,5]	-2.037	1.214	-4.831	-2.729	-1.910	-1.218
##	theta[343,5]	-1.813	1.040	-4.046	-2.455	-1.724	-1.084
##	theta[344,5]	1.605	0.711	0.409	1.113	1.526	2.033
##	theta[345,5]	-1.862	1.050	-4.191	-2.508	-1.767	-1.130
##	theta[346,5]	0.934	0.652	-0.260	0.516	0.903	1.313
##	theta[347,5]	-0.126	0.524	-1.207	-0.448	-0.117	0.203
##	theta[348,5]	-0.710	0.540	-1.890	-1.039	-0.670	-0.345
##	theta[349,5]	-0.564	0.570	-1.824	-0.906	-0.516	-0.182
##	theta[350,5]	0.376	0.552	-0.747	0.053	0.381	0.708
##	theta[351,5]	1.130	0.846	-0.468	0.606	1.083	1.610
##	theta[352,5]	-1.260	0.800	-3.084	-1.714	-1.152	-0.705
##	theta[353,5]	-1.873	1.079	-4.339	-2.518	-1.756	-1.126
##	theta[354,5]	1.421	0.798	0.005	0.896	1.354	1.882
##	theta[355,5]	-1.161	0.696	-2.694	-1.578	-1.104	-0.674
##	theta[356,5]	0.754	0.548	-0.278	0.409	0.737	1.097
##	theta[357,5]	-0.692	0.569	-1.988	-1.027	-0.636	-0.303
##	theta[358,5]	2.102	1.157	0.193	1.329	1.965	2.744
##	theta[359,5]	0.884	0.604	-0.227	0.505	0.855	1.239
##	theta[360,5]	-0.768	0.604	-2.133	-1.111	-0.715	-0.357
##	theta[361,5]	0.685	0.494	-0.248	0.365	0.669	0.993
##	theta[362,5]	-0.135	0.469	-1.161	-0.414	-0.107	0.175
##	theta[363,5]	0.812	0.642	-0.416	0.405	0.789	1.199
##	theta[364,5]	-1.406	0.840	-3.325	-1.894	-1.314	-0.825
##	theta[365,5]	1.183	0.595	0.110	0.785	1.129	1.550
##	theta[366,5]	-0.335	0.506	-1.452	-0.629	-0.308	0.002
##	theta[367,5]	-1.302	0.786	-3.092	-1.760	-1.218	-0.755
##	theta[368,5]	0.568	0.562	-0.542	0.239	0.574	0.898
##	theta[369,5]	0.686	0.637	-0.674	0.319	0.678	1.064
##	theta[370,5]	1.397	0.789	0.022	0.871	1.348	1.848
##	theta[371,5]	-1.288	0.777	-3.033	-1.743	-1.210	-0.724
##	theta[372,5]	-1.417	0.802	-3.233	-1.891	-1.329	-0.829
##	theta[373,5]	-0.867	0.628	-2.278	-1.245	-0.820	-0.425
##	theta[374,5]	0.957	0.588	-0.126	0.577	0.933	1.297
##	theta[375,5]	0.632	0.629	-0.676	0.244	0.642	1.010
##	theta[376,5]	0.507	0.565	-0.640	0.168	0.515	0.858
##	theta[377,5]	-1.392	0.810	-3.281	-1.849	-1.297	-0.822
##	theta[378,5]	-0.275	0.480	-1.306	-0.559	-0.258	0.041
##	theta[379,5]	-0.886	0.612	-2.268	-1.254	-0.836	-0.458
##	theta[380,5]	-1.379	0.802	-3.230	-1.850	-1.282	-0.804
##	theta[381,5]	-1.166	0.745	-2.804	-1.620	-1.081	-0.646
##	theta[382,5]	-1.332	0.744	-3.021	-1.772	-1.265	-0.787
##	theta[383,5]	0.939	0.663	-0.294	0.523	0.906	1.323
##	theta[384,5]	0.087	0.567	-1.140	-0.231	0.113	0.430
##	theta[385,5]	1.196	0.614	0.130	0.782	1.147	1.554
##	theta[386,5]	-0.726	0.566	-2.017	-1.070	-0.667	-0.333
##	theta[387,5]	-1.407	0.798	-3.214	-1.879	-1.318	-0.846
	theta[388,5]	-1.236	0.704	-2.847	-1.660	-1.154	-0.739
##	theta[389,5]	1.395	0.795	-0.017	0.853	1.342	1.862
##	theta[390,5]	-0.906	0.631	-2.342	-1.272	-0.853	-0.458

##	theta[391,5]	-1.239	0.719	-2.875	-1.659	-1.173	-0.730
##	theta[392,5]	-1.200	0.783	-2.953	-1.651	-1.123	-0.642
##	theta[393,5]	-1.314	0.807	-3.108	-1.791	-1.228	-0.737
##	theta[394,5]	2.065	1.091	0.243	1.347	1.951	2.674
##	theta[395,5]	-1.832	1.049	-4.117	-2.468	-1.745	-1.101
##	theta[396,5]	2.045	1.110	0.225	1.306	1.942	2.656
##	theta[397,5]	-1.861	1.044	-4.091	-2.532	-1.770	-1.114
##	theta[398,5]	-1.359	0.730	-2.985	-1.795	-1.292	-0.826
##	theta[399,5]	-1.816	1.188	-4.456	-2.503	-1.718	-1.001
##	theta[400,5]	2.081	0.855	0.661	1.481	1.988	2.592
##	theta[401,5]	-0.890	0.624	-2.331	-1.257	-0.815	-0.461
##	theta[402,5]	0.774	0.466	-0.076	0.461	0.752	1.067
##	theta[403,5]	1.228	0.617	0.139	0.814	1.183	1.598
##	theta[404,5]	-0.448	0.525	-1.601	-0.769	-0.414	-0.090
##	theta[405,5]		0.669	-0.004	0.733	1.136	1.596
		1.185					
##	theta[406,5]	-0.727	0.911	-2.713	-1.258	-0.657	-0.147
##	theta[407,5]	-0.910	0.651	-2.386	-1.290	-0.848	-0.452
##	theta[408,5]	-0.732	0.914	-2.744	-1.266	-0.687	-0.152
##	theta[409,5]	0.510	0.483	-0.417	0.205	0.499	0.814
##	theta[410,5]	0.395	0.669	-1.000	0.020	0.405	0.797
##	theta[411,5]	-1.383	0.768	-3.151	-1.829	-1.291	-0.839
##	theta[412,5]	-1.260	0.774	-3.020	-1.708	-1.172	-0.704
##	theta[413,5]	1.123	0.827	-0.380	0.616	1.070	1.579
##	theta[414,5]	-1.392	0.869	-3.344	-1.891	-1.295	-0.786
##	theta[415,5]	-2.010	1.159	-4.701	-2.681	-1.907	-1.209
##	theta[416,5]	-0.442	0.507	-1.536	-0.761	-0.406	-0.097
##	theta[417,5]	-0.240	0.468	-1.203	-0.536	-0.215	0.069
##	theta[418,5]	-0.675	0.635	-2.083	-1.037	-0.618	-0.252
##	theta[419,5]	-1.365	0.742	-3.100	-1.806	-1.289	-0.830
##	theta[420,5]	-0.042	0.464	-0.987	-0.341	-0.038	0.266
##	theta[421,5]	-1.925	1.114	-4.376	-2.598	-1.823	-1.154
##	theta[422,5]	0.670	0.469	-0.212	0.369	0.654	0.950
##	theta[423,5]	-1.779	1.060	-4.038	-2.440	-1.674	-1.030
##	theta[424,5]	-1.346	0.781	-3.129	-1.798	-1.271	-0.780
##	theta[425,5]	-1.363	0.782	-3.153	-1.830	-1.269	-0.809
##	theta[426,5]	-0.723	0.897	-2.585	-1.264	-0.663	-0.167
##	theta[427,5]	-1.484	0.829	-3.353	-1.958	-1.395	-0.912
##	theta[428,5]	1.177	0.682	-0.023	0.732	1.125	1.585
##	theta[429,5]	0.989	0.668	-0.241	0.567	0.945	1.388
##	theta[430,5]	-0.588	0.567	-1.821	-0.924	-0.556	-0.199
##	theta[431,5]	2.087	1.157	0.212	1.293	1.939	2.711
##	theta[432,5]	1.157	0.628	0.025	0.747	1.100	1.542
##	theta[433,5]	1.155	0.646	-0.022	0.732	1.116	1.539
##	theta[434,5]	1.186	0.709	-0.120	0.725	1.135	1.614
##	theta[435,5]	-1.816	1.139	-4.275	-2.503	-1.731	-1.048
##	theta[436,5]	-0.712	0.903	-2.676	-1.235	-0.667	-0.132
##	theta[437,5]	-1.285	0.799	-3.107	-1.756	-1.186	-0.709
##	theta[438,5]	-0.937	0.799	-3.107 -2.355	-1.736	-0.868	-0.709
##	-						
	theta[439,5]	1.084	0.574	0.043	0.705	1.047	1.437
##	theta[440,5]	1.100	0.623	-0.001	0.688	1.056	1.465
##	theta[441,5]	-1.868	1.074	-4.258	-2.509	-1.741	-1.098
##	theta[442,5]	-0.702	0.897	-2.704	-1.217	-0.642	-0.124
##	theta[443,5]	1.066	0.578	-0.007	0.693	1.016	1.403
##	theta[444,5]	-0.835	0.639	-2.272	-1.210	-0.774	-0.405

##	theta[445,5]	1.126	0.746	-0.254	0.655	1.070	1.562
##	theta[446,5]	-0.717	0.908	-2.704	-1.258	-0.648	-0.141
##	theta[447,5]	0.719	0.532	-0.275	0.380	0.703	1.049
##	theta[448,5]	-0.464	0.540	-1.666	-0.772	-0.421	-0.097
##	theta[449,5]	0.345	0.456	-0.526	0.046	0.336	0.633
##	theta[450,5]	-0.251	0.476	-1.289	-0.537	-0.230	0.061
##	theta[451,5]	-1.306	0.852	-3.295	-1.798	-1.207	-0.710
##	theta[452,5]	-0.854	0.657	-2.314	-1.227	-0.784	-0.403
##	theta[453,5]	1.489	0.694	0.266	1.003	1.426	1.913
##	theta[454,5]	-0.713	0.902	-2.617	-1.244	-0.671	-0.143
##	theta[455,5]	-0.396	0.504	-1.464	-0.710	-0.374	-0.066
##	theta[456,5]	1.079	0.639	-0.031	0.665	1.028	1.449
##	theta[457,5]	-0.406	0.499	-1.475	-0.703	-0.383	-0.073
##	theta[458,5]	0.954	0.636	-0.209	0.547	0.923	1.341
##	theta[459,5]	1.202	0.611	0.148	0.787	1.151	1.565
##	theta[460,5]	-0.983	0.625	-2.365	-1.348	-0.919	-0.561
##	theta[461,5]	-0.825	0.628	-2.200	-1.185	-0.774	-0.408
##	theta[462,5]	-1.394	0.830	-3.316	-1.893	-1.314	-0.800
##	theta[463,5]	-0.694	0.609	-2.093	-1.038	-0.634	-0.272
##	theta[464,5]	0.595	0.484	-0.352	0.282	0.591	0.887
##	theta[465,5]	-0.877	0.611	-2.295	-1.236	-0.828	-0.448
##	theta[466,5]	0.983	0.633	-0.203	0.589	0.947	1.355
##	theta[467,5]	-1.196	0.715	-2.837	-1.630	-1.108	-0.693
##	theta[468,5]	1.381	0.770	0.003	0.882	1.314	1.845
##	theta[469,5]	-0.698	0.570	-1.983	-1.031	-0.655	-0.313
##	theta[470,5]	0.350	0.457	-0.599	0.075	0.356	0.642
##	theta[471,5]	-0.845	0.626	-2.226	-1.216	-0.796	-0.396
##	theta[472,5]	0.981	0.656	-0.241	0.569	0.931	1.374
##	theta[473,5]	0.877	0.582	-0.232	0.506	0.855	1.236
##	theta[474,5]	0.884	0.572	-0.227	0.509	0.857	1.249
##	theta[475,5]	-1.805	1.181	-4.407	-2.482	-1.693	-1.017
##	theta[476,5]	1.208	0.738	-0.153	0.740	1.148	1.646
##	theta[477,5]	-0.969	0.625	-2.320	-1.338	-0.911	-0.521
##	theta[478,5]	0.517	0.506	-0.486	0.208	0.495	0.819
##	theta[479,5]	-1.351	0.753	-3.095	-1.774	-1.273	-0.833
##	theta[480,5]	0.266	0.602	-0.994	-0.073	0.292	0.633
	theta[481,5]	0.711	0.599	-0.447	0.347	0.697	1.070
	theta[482,5]	-0.565	0.617	-1.931	-0.924	-0.518	-0.154
	theta[483,5]	-0.674	0.559	-1.901	-1.012	-0.627	-0.278
	theta[484,5]	-1.365	0.739	-3.076	-1.801	-1.276	-0.832
	theta[485,5]	-1.344	0.731	-2.974	-1.771	-1.250	-0.821
	theta[486,5]	0.520	0.444	-0.284	0.227	0.499	0.796
	theta[487,5]	1.045	0.580	0.017	0.657	1.000	1.397
	theta[488,5]	-1.330	0.756	-3.070	-1.783	-1.246	-0.786
	theta[489,5]	0.510	0.558	-0.626	0.177	0.519	0.844
	theta[490,5]	-1.340	0.770	-3.144	-1.785	-1.263	-0.790
	theta[491,5]	-0.729	0.887	-2.629	-1.260	-0.685	-0.156
	theta[492,5]	-0.693	0.576	-1.957	-1.038	-0.636	-0.307
	theta[493,5]	-2.006	1.242	-4.719	-2.707	-1.908	-1.170
	theta[494,5]	1.468	0.644	0.399	1.012	1.392	1.852
	theta[495,5]	-0.631	0.818	-2.431	-1.106	-0.577	-0.119
	theta[496,5]	0.535	0.475	-0.370	0.239	0.527	0.822
	theta[497,5]	-0.834	0.926	-2.806	-1.382	-0.764	-0.240
##	theta[498,5]	-1.925	1.145	-4.443	-2.599	-1.822	-1.142

##	theta[499,5]	-0.774	0.953	-2.766	-1.352	-0.722	-0.164
##	theta[500,5]	-1.299	0.832	-3.179	-1.807	-1.216	-0.717
##	theta[501,5]	-1.149	0.668	-2.652	-1.540	-1.091	-0.670
##	theta[502,5]	-0.160	0.482	-1.151	-0.465	-0.150	0.163
##	theta[503,5]	-1.981	1.184	-4.642	-2.697	-1.861	-1.157
##	theta[504,5]	-1.316	0.802	-3.171	-1.767	-1.213	-0.738
##	theta[505,5]	-0.603	0.787	-2.243	-1.086	-0.567	-0.096
##	theta[506,5]	-0.794	0.966	-2.824	-1.370	-0.743	-0.174
##	theta[507,5]	-1.359	0.821	-3.204	-1.849	-1.284	-0.768
##	theta[508,5]	-1.298	0.796	-3.097	-1.785	-1.202	-0.721
##	theta[509,5]	-0.821	0.982	-2.995	-1.386	-0.751	-0.189
##	theta[510,5]	-0.174	0.676	-1.532	-0.581	-0.173	0.228
##	theta[511,5]	-1.336	0.763	-3.082	-1.778	-1.265	-0.788
##	theta[512,5]	-1.390	0.795	-3.193	-1.856	-1.301	-0.846
##	theta[513,5]	0.617	0.464	-0.233	0.301	0.590	0.914
##	theta[514,5]	-1.250	0.783	-3.010	-1.701	-1.158	-0.700
##	theta[515,5]	-1.201	0.778	-2.973	-1.661	-1.104	-0.651
##	theta[516,5]	-1.263	0.799	-3.101	-1.741	-1.171	-0.697
##	theta[517,5]	-1.548	0.989	-3.733	-2.144	-1.453	-0.847
	theta[518,5]	-0.055	0.445	-0.976	-0.327	-0.046	0.227
	theta[519,5]	-0.778	0.975	-2.869	-1.324	-0.717	-0.177
	theta[520,5]	0.182	0.478	-0.820	-0.103	0.191	0.485
	theta[521,5]	-0.065	0.655	-1.379	-0.469	-0.071	0.316
	theta[522,5]	-1.552	1.044	-3.878	-2.182	-1.442	-0.837
	theta[523,5]	-1.684	1.042	-4.020	-2.305	-1.582	-0.960
	theta[524,5]	-0.725	0.904	-2.656	-1.244	-0.663	-0.163
##	theta[525,5]	-0.079	0.742	-1.557	-0.527	-0.096	0.353
##	theta[526,5]	-1.559	1.072	-4.011	-2.170	-1.460	-0.838
##	theta[527,5]	-0.569	0.537	-1.764	-0.888	-0.534	-0.207
##	theta[528,5]	-0.566	0.542	-1.785	-0.877	-0.527	-0.203
##							
	theta[529,5]	-1.633	1.014 0.887	-3.828	-2.231	-1.567 -0.076	-0.939
##	theta[530,5]	-1.033		-2.964	-1.561	-0.976	-0.435
##	theta[531,5]	-0.088	0.683	-1.514	-0.494	-0.078	0.316
##	theta[532,5]	-2.024	1.250	-4.799	-2.772	-1.912	-1.158
##	theta[533,5]	0.638	0.510	-0.374	0.324	0.624	0.959
##	theta[534,5]	-2.074	1.347	-5.073	-2.874	-1.937	-1.134
	theta[535,5]	0.422	0.488	-0.549	0.127	0.421	0.719
	theta[536,5]	-0.603	0.539	-1.777	-0.934	-0.563	-0.232
	theta[1,6]	-0.280	0.521	-1.429	-0.582	-0.250	0.057
	theta[2,6]	-0.585	0.560	-1.836	-0.902	-0.538	-0.211
	theta[3,6]	-0.126	0.463	-1.057	-0.411	-0.125	0.181
	theta[4,6]	0.171	0.534	-0.798	-0.169	0.151	0.473
	theta[5,6]	0.074	0.625	-1.231	-0.284	0.095	0.462
	theta[6,6]	0.078	0.616	-1.178	-0.291	0.098	0.470
	theta[7,6]	0.220	0.770	-1.348	-0.246	0.226	0.712
##	theta[8,6]	0.223	0.756	-1.369	-0.225	0.234	0.679
	theta[9,6]	0.087	0.655	-1.310	-0.306	0.103	0.509
##	theta[10,6]	0.155	0.626	-1.143	-0.225	0.174	0.549
##	theta[11,6]	0.029	0.606	-1.111	-0.358	0.009	0.379
##	theta[12,6]	0.199	0.557	-0.781	-0.153	0.152	0.505
##	theta[13,6]	0.357	0.463	-0.475	0.041	0.330	0.643
	theta[14,6]	0.136	0.684	-1.267	-0.279	0.151	0.554
	theta[15,6]	0.079	0.647	-1.249	-0.302	0.107	0.484
##	theta[16,6]	-0.045	0.609	-1.376	-0.384	-0.014	0.346

##	theta[17,6]	0.240	0.539	-0.809	-0.101	0.225	0.562
##	theta[18,6]	0.135	0.600	-1.102	-0.227	0.149	0.507
##	theta[19,6]	0.030	0.617	-1.331	-0.331	0.069	0.424
##	theta[20,6]	0.298	0.823	-1.327	-0.211	0.287	0.795
##	theta[21,6]	-0.014	0.595	-1.189	-0.373	-0.028	0.328
##	theta[22,6]	0.177	0.527	-0.832	-0.163	0.164	0.502
##	theta[23,6]	-0.291	0.815	-1.962	-0.793	-0.271	0.199
##	theta[24,6]	-0.092	0.556	-1.295	-0.422	-0.070	0.270
##	theta[25,6]	0.244	0.490	-0.635	-0.073	0.203	0.522
##	theta[26,6]	0.253	0.860	-1.596	-0.279	0.278	0.801
##	theta[27,6]	0.074	0.567	-1.104	-0.274	0.080	0.436
##	theta[28,6]	0.364	0.913	-1.394	-0.224	0.360	0.927
##	theta[29,6]	-0.012	0.598	-1.293	-0.353	0.011	0.380
##	theta[30,6]	-0.298	0.837	-2.035	-0.794	-0.292	0.219
##	theta[31,6]	-0.218	0.485	-1.281	-0.500	-0.199	0.098
##	theta[32,6]	-0.283	0.797	-1.823	-0.792	-0.276	0.210
##	theta[33,6]	0.018	0.626	-1.139	-0.402	-0.015	0.411
##	theta[34,6]	-0.461	0.549	-1.708	-0.764	-0.417	-0.098
##	theta[35,6]	0.048	0.576	-1.004	-0.322	0.016	0.389
##	theta[36,6]	0.199	0.572	-0.832	-0.159	0.165	0.526
##	theta[37,6]	-0.212	0.545	-1.409	-0.514	-0.184	0.132
##	theta[38,6]	0.167	0.549	-0.806	-0.190	0.122	0.488
##	theta[39,6]	-0.131	0.624	-1.361	-0.516	-0.152	0.226
##	theta[40,6]	0.005	0.598	-1.259	-0.343	0.036	0.389
##	theta[41,6]	0.271	0.841	-1.425	-0.257	0.278	0.819
##	theta[42,6]	-0.268	0.842	-1.964	-0.769	-0.269	0.241
##	theta[43,6]	-0.106	0.683	-1.464	-0.540	-0.111	0.314
##	theta[44,6]	0.157	0.664	-1.266	-0.246	0.152	0.563
##	theta[45,6]	-0.041	0.540	-1.037	-0.383	-0.066	0.276
##	theta[46,6]	-0.040	0.440	-0.898	-0.322	-0.050	0.224
##	theta[47,6]	0.017	0.613	-1.359	-0.331	0.057	0.416
##	theta[48,6]	-0.035	0.571	-1.300	-0.365	-0.004	0.343
##	theta[49,6]	0.288	0.732	-1.172	-0.161	0.281	0.743
##	theta[50,6]	-0.349	0.520	-1.488	-0.653	-0.320	-0.019
##	theta[51,6]	0.349	0.765	-1.158	-0.127	0.339	0.832
##	theta[52,6]	0.450	0.519	-0.463	0.104	0.407	0.767
##	theta[53,6]	0.073	0.468	-0.848	-0.222	0.072	0.372
	theta[54,6]	-0.557	0.542	-1.754	-0.856	-0.502	-0.203
	theta[55,6]	-0.272	0.555	-1.489	-0.586	-0.230	0.081
	theta[56,6]	-0.301	0.831	-2.038	-0.818	-0.291	0.228
	theta[57,6]	-0.210	0.649	-1.518	-0.614	-0.211	0.177
	theta[58,6]	0.273	0.861	-1.496	-0.256	0.266	0.810
	theta[59,6]	0.045	0.577	-1.166	-0.301	0.056	0.416
	theta[60,6]	0.001	0.501	-0.940	-0.321	-0.019	0.303
##	theta[61,6]	0.117	0.605	-1.131	-0.242	0.137	0.499
##	theta[62,6]	0.343	0.769	-1.186	-0.150	0.338	0.820
##	theta[63,6]	0.071	0.607	-1.069	-0.306	0.041	0.410
##	theta[64,6]	-0.063	0.591	-1.221	-0.417	-0.074	0.266
##	theta[65,6]	0.069	0.566	-0.953	-0.282	0.040	0.387
##	theta[66,6]	-0.074	0.554	-1.274	-0.400	-0.041	0.276
##	theta[67,6]	-0.001	0.604	-1.180	-0.369	-0.010	0.351
	theta[68,6]	0.263	0.850	-1.478	-0.258	0.264	0.794
	theta[69,6]	0.325	0.927	-1.604	-0.230	0.329	0.863
	theta[70,6]	-0.076	0.520	-1.172	-0.387	-0.055	0.252
		2.0.0					

##	theta[71,6]	0.014	0.574	-1.193	-0.324	0.039	0.383
##	theta[72,6]	0.084	0.568	-1.107	-0.270	0.107	0.451
##	theta[73,6]	0.286	0.824	-1.376	-0.223	0.298	0.780
##	theta[74,6]	0.018	0.587	-1.147	-0.355	0.000	0.365
##	theta[75,6]	0.047	0.591	-1.225	-0.295	0.071	0.429
##	theta[76,6]	0.344	0.915	-1.482	-0.231	0.341	0.898
	_ ' _		0.460	-0.912			0.321
##	theta[77,6]	0.032			-0.252	0.038	
##	theta[78,6]	0.091	0.560	-1.002	-0.251	0.080	0.429
##	theta[79,6]	-0.295	0.837	-2.049	-0.792	-0.277	0.224
##	theta[80,6]	-0.295	0.504	-1.420	-0.587	-0.264	0.030
##	theta[81,6]	0.051	0.606	-1.221	-0.298	0.072	0.426
##	theta[82,6]	-0.016	0.512	-0.956	-0.347	-0.037	0.293
##	theta[83,6]	0.279	0.837	-1.432	-0.242	0.280	0.810
##	theta[84,6]	0.411	0.507	-0.469	0.069	0.365	0.716
##	theta[85,6]	0.320	0.517	-0.565	-0.022	0.287	0.612
##	theta[86,6]	0.040	0.439	-0.800	-0.244	0.036	0.314
##	theta[87,6]	0.117	0.472	-0.761	-0.197	0.098	0.404
##	theta[88,6]	-0.118	0.482	-1.067	-0.419	-0.129	0.178
##	theta[89,6]	-0.274	0.819	-1.976	-0.779	-0.280	0.211
				-1.174	-0.424		
##	theta[90,6]	-0.028	0.616			-0.043	0.349
##	theta[91,6]	-0.064	0.536	-1.112	-0.405	-0.074	0.257
##	theta[92,6]	0.093	0.662	-1.304	-0.293	0.122	0.503
##	theta[93,6]	-0.007	0.634	-1.160	-0.417	-0.047	0.371
##	theta[94,6]	-0.229	0.655	-1.553	-0.634	-0.228	0.154
##	theta[95,6]	-0.289	0.808	-1.954	-0.769	-0.297	0.230
##	theta[96,6]	-0.580	0.564	-1.847	-0.906	-0.524	-0.196
##	theta[97,6]	-0.208	0.526	-1.376	-0.495	-0.168	0.129
##	theta[98,6]	0.065	0.681	-1.415	-0.324	0.092	0.508
##	theta[99,6]	-0.030	0.645	-1.214	-0.430	-0.065	0.347
##	theta[100,6]	0.155	0.663	-1.175	-0.253	0.181	0.565
##	theta[101,6]	0.446	0.496	-0.466	0.109	0.418	0.744
##	theta[102,6]	-0.237	0.792	-1.829	-0.722	-0.247	0.244
##	theta[103,6]	0.012	0.562	-1.176	-0.333	0.039	0.368
##		-0.648	0.585	-1.951	-0.979	-0.601	-0.247
	theta[104,6]						
##	theta[105,6]	-0.254	0.426	-1.135	-0.520	-0.244	0.030
##	theta[106,6]	0.198	0.463	-0.694	-0.103	0.183	0.485
##	theta[107,6]	0.505	0.603	-0.563	0.110	0.448	0.853
##	theta[108,6]	-0.292	0.815	-1.979	-0.773	-0.301	0.213
##	theta[109,6]	0.074	0.533	-0.961	-0.247	0.054	0.386
##	theta[110,6]	0.203	0.514	-0.713	-0.137	0.175	0.505
##	theta[111,6]	0.117	0.661	-1.236	-0.268	0.140	0.527
##	theta[112,6]	0.336	0.910	-1.530	-0.219	0.346	0.895
##	theta[113,6]	-0.033	0.445	-0.926	-0.303	-0.031	0.255
##	theta[114,6]	-0.171	0.569	-1.377	-0.493	-0.143	0.200
##	theta[115,6]	0.067	0.422	-0.720	-0.211	0.051	0.327
##	theta[116,6]	-0.630	0.598	-2.030	-0.955	-0.566	-0.228
##	theta[117,6]	0.268	0.841	-1.434	-0.267	0.285	0.803
##	theta[118,6]	-0.141	0.530	-1.292	-0.437	-0.109	0.192
##	theta[119,6]	-0.433	0.526	-1.626	-0.729	-0.394	-0.083
##	theta[113,6]	0.455	0.907			0.361	
				-1.438	-0.203		0.916
##	theta[121,6]	0.244	0.667	-1.108	-0.147	0.242	0.646
##	theta[122,6]	0.027	0.580	-1.234	-0.309	0.063	0.393
##	theta[123,6]	0.061	0.604	-1.200	-0.309	0.077	0.452
##	theta[124,6]	-0.280	0.812	-1.888	-0.795	-0.297	0.209

##	theta[125,6]	0.051	0.515	-0.918	-0.272	0.021	0.347
##	theta[126,6]	-0.168	0.491	-1.194	-0.463	-0.163	0.134
	theta[127,6]	-0.140	0.653	-1.495	-0.552	-0.148	0.264
	theta[128,6]	-0.590	0.598	-1.956	-0.910	-0.538	-0.200
	theta[129,6]	-0.193	0.524	-1.309	-0.485	-0.169	0.133
##	theta[130,6]	0.063	0.558	-0.921	-0.305	0.035	0.381
##	theta[131,6]	-0.041	0.576	-1.259	-0.383	-0.019	0.333
##	theta[132,6]	-0.248	0.478	-1.298	-0.530	-0.215	0.067
##	theta[133,6]	-0.125	0.535	-1.329	-0.447	-0.104	0.220
##	theta[134,6]	0.307	0.812	-1.285	-0.213	0.300	0.820
##	theta[135,6]	0.313	0.730	-1.124	-0.125	0.294	0.762
##	theta[136,6]	-0.227	0.651	-1.517	-0.628	-0.220	0.153
##	theta[137,6]	-0.117	0.417	-0.964	-0.369	-0.108	0.155
##	theta[138,6]	-0.185	0.690	-1.553	-0.608	-0.193	0.222
##	theta[139,6]	0.276	0.732	-1.201	-0.173	0.269	0.722
##	theta[140,6]	-0.148	0.736	-1.601	-0.608	-0.161	0.280
##	theta[141,6]	0.110	0.505	-0.778	-0.230	0.076	0.397
##	theta[142,6]	-0.330	0.514	-1.439	-0.639	-0.313	0.003
##	theta[143,6]	0.140	0.643	-1.131	-0.245	0.148	0.540
##	theta[144,6]	0.114	0.563	-1.040	-0.244	0.128	0.467
##	theta[145,6]	-0.020	0.576	-1.298	-0.365	-0.001	0.341
	theta[146,6]	-0.340	0.458	-1.330	-0.618	-0.311	-0.031
##	theta[147,6]	-0.032	0.668	-1.256	-0.458	-0.072	0.362
##	theta[148,6]	0.351	0.933	-1.505	-0.212	0.328	0.906
	theta[149,6]	-0.257	0.487	-1.294	-0.542	-0.236	0.067
##	theta[150,6]	-0.302	0.824	-2.014	-0.793	-0.287	0.196
##	theta[151,6]	-0.040	0.613	-1.183	-0.424	-0.073	0.315
##	theta[152,6]	-0.351	0.550	-1.564	-0.663	-0.331	0.004
##	theta[153,6]	-0.331	0.530	-1.491	-0.620	-0.295	0.003
##	theta[154,6]	-0.041	0.624	-1.266	-0.429	-0.057	0.328
##	theta[155,6]	-0.279	0.453	-1.206	-0.556	-0.262	0.016
##	theta[156,6]	-0.102	0.657	-1.371	-0.510	-0.125	0.286
##	theta[157,6]	-0.455	0.500	-1.544	-0.739	-0.412	-0.130
##	theta[158,6]	-0.097	0.576	-1.319	-0.443	-0.068	0.270
##	theta[159,6]	-0.342	0.474	-1.350	-0.627	-0.315	-0.027
##	theta[160,6]	-0.080	0.653	-1.365	-0.476	-0.103	0.302
	theta[161,6]	0.025	0.594	-1.076	-0.347	-0.003	0.369
	theta[162,6]	-0.052	0.560	-1.149	-0.400	-0.052	0.285
	theta[163,6]	-0.216	0.672	-1.544	-0.627	-0.234	0.181
	theta[164,6]	-0.135	0.722	-1.548	-0.594	-0.158	0.294
	theta[165,6]	0.356	0.908	-1.515	-0.212	0.344	0.918
	theta[166,6]	0.289	0.723	-1.177	-0.156	0.294	0.739
	theta[167,6]	0.156	0.739	-1.438	-0.280	0.196	0.618
	theta[168,6]	-0.279	0.817	-1.892	-0.786	-0.281	0.216
	theta[169,6]	-0.012	0.591	-1.122	-0.402	-0.043	0.337
##	theta[170,6]	0.351	0.913	-1.441	-0.213	0.339	0.920
##	theta[171,6]	0.000	0.617	-1.356	-0.345	0.028	0.390
##	theta[172,6]	-0.298	0.503	-1.412	-0.598	-0.266	0.037
##	theta[173,6]	-0.279	0.820	-2.007	-0.765	-0.289	0.237
##	theta[173,6]	-0.232	0.485	-1.292	-0.512	-0.203	0.237
	theta[174,6]	-0.046	0.515	-1.149	-0.366	-0.018	0.033
	theta[176,6]	-0.147	0.513	-1.299	-0.465	-0.117	0.204
	theta[177,6]	-0.119	0.458	-1.081	-0.404	-0.099	0.202
	theta[177,6]	0.113	0.486	-0.742	-0.098	0.099	0.102
ππ	oneca[170,0]	0.211	0.400	0.142	0.030	0.199	0.515

##	theta[179,6]	-0.249	0.477	-1.282	-0.524	-0.220	0.063
##	theta[180,6]	-0.313	0.531	-1.465	-0.632	-0.293	0.033
##	theta[181,6]	0.231	0.770	-1.342	-0.254	0.234	0.703
##	theta[182,6]	0.098	0.542	-0.882	-0.258	0.069	0.408
##	theta[183,6]	0.119	0.473	-0.736	-0.179	0.093	0.378
##	theta[184,6]	-0.221	0.788	-1.857	-0.688	-0.227	0.237
##	theta[185,6]	-0.141	0.651	-1.417	-0.552	-0.147	0.246
##	theta[186,6]	-0.111	0.681	-1.447	-0.526	-0.127	0.286
##	theta[187,6]	0.519	0.518	-0.404	0.181	0.481	0.814
##	theta[188,6]	-0.034	0.562	-1.240	-0.345	-0.011	0.309
##	theta[189,6]	-0.272	0.853	-1.976	-0.778	-0.271	0.267
##	theta[190,6]	-0.279	0.837	-1.997	-0.783	-0.277	0.234
##	theta[191,6]	-0.067	0.594	-1.165	-0.451	-0.091	0.278
##	theta[192,6]	-0.208	0.660	-1.504	-0.609	-0.213	0.164
##	theta[192,6]	-0.171	0.689	-1.578	-0.612	-0.178	0.164
##				-1.251			0.203
	theta[194,6]	-0.036	0.565		-0.346	-0.005	
##	theta[195,6]	0.140	0.626	-1.176	-0.234	0.158	0.541
##	theta[196,6]	-0.221	0.653	-1.497	-0.618	-0.214	0.176
##	theta[197,6]	-0.098	0.642	-1.361	-0.502	-0.105	0.284
##	theta[198,6]	-0.286	0.827	-1.963	-0.783	-0.272	0.228
##	theta[199,6]	-0.267	0.672	-1.626	-0.688	-0.274	0.151
##	theta[200,6]	0.333	0.491	-0.546	0.004	0.301	0.628
##	theta[201,6]	-0.258	0.805	-1.809	-0.779	-0.272	0.210
##	theta[202,6]	-0.565	0.526	-1.724	-0.868	-0.524	-0.220
##	theta[203,6]	-0.071	0.551	-1.128	-0.417	-0.082	0.252
##	theta[204,6]	-0.374	0.578	-1.618	-0.704	-0.348	-0.009
##	theta[205,6]	-0.166	0.538	-1.303	-0.468	-0.142	0.178
##	theta[206,6]	-0.397	0.571	-1.660	-0.725	-0.353	-0.016
##	theta[207,6]	0.111	0.529	-0.868	-0.226	0.081	0.418
##	theta[208,6]	0.369	0.578	-0.668	-0.004	0.323	0.692
##	theta[209,6]	-0.022	0.560	-1.079	-0.382	-0.042	0.316
##	theta[210,6]	-0.270	0.833	-1.937	-0.757	-0.271	0.229
##	theta[211,6]	-0.030	0.591	-1.260	-0.381	-0.017	0.354
##	theta[212,6]	-0.253	0.456	-1.245	-0.520	-0.229	0.044
##	theta[213,6]	-0.272	0.806	-1.878	-0.751	-0.253	0.223
##	theta[214,6]	-0.635	0.580	-2.001	-0.963	-0.578	-0.250
##	theta[215,6]	0.514	0.523	-0.421	0.166	0.469	0.816
##	theta[216,6]	-0.292	0.842	-2.006	-0.795	-0.302	0.229
##	theta[217,6]	0.299	0.833	-1.376	-0.205	0.302	0.809
##	theta[218,6]	-0.301	0.524	-1.417	-0.615	-0.286	0.024
##	theta[219,6]	0.201	0.548	-0.782	-0.152	0.167	0.505
##	theta[220,6]	0.082	0.468	-0.777	-0.220	0.065	0.365
##	theta[221,6]	-0.321	0.497	-1.388	-0.605	-0.283	0.001
##	theta[222,6]	-0.091	0.542	-1.200	-0.414	-0.088	0.233
##	theta[223,6]	-0.285	0.843	-2.032	-0.775	-0.268	0.202
##	theta[224,6]	0.264	0.832	-1.468	-0.250	0.283	0.804
##	theta[225,6]	-0.022	0.630	-1.224	-0.428	-0.047	0.363
##	theta[226,6]	-0.045	0.553	-1.211	-0.372	-0.037	0.304
##	theta[227,6]	0.348	0.933	-1.555	-0.223	0.339	0.936
##	theta[228,6]	0.167	0.604	-1.063	-0.191	0.173	0.524
##	theta[229,6]	-0.137	0.622	-1.386	-0.523	-0.148	0.236
	theta[230,6]	0.180	0.502	-0.716	-0.146	0.152	0.469
	theta[231,6]	0.362	0.921	-1.524	-0.217	0.348	0.918
	theta[232,6]	0.073	0.500	-0.842	-0.253	0.052	0.376
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##	theta[233,6]	-0.061	0.605	-1.379	-0.412	-0.031	0.327
##	theta[234,6]	-0.473	0.520	-1.628	-0.777	-0.430	-0.127
##	theta[235,6]	0.455	0.492	-0.428	0.136	0.417	0.740
##	theta[236,6]	0.375	0.587	-0.687	-0.001	0.325	0.712
	theta[237,6]	0.157	0.500	-0.780	-0.174	0.128	0.450
	theta[238,6]	-0.353	0.573	-1.574	-0.683	-0.334	0.007
							0.353
	theta[239,6]	-0.049	0.608	-1.335	-0.409	-0.020	
	theta[240,6]	0.420	0.472	-0.420	0.101	0.385	0.698
	theta[241,6]	0.098	0.564	-0.939	-0.261	0.071	0.421
	theta[242,6]	0.069	0.521	-0.947	-0.254	0.050	0.382
##	theta[243,6]	0.124	0.534	-0.893	-0.221	0.110	0.433
##	theta[244,6]	-0.093	0.587	-1.306	-0.454	-0.073	0.289
##	theta[245,6]	-0.161	0.746	-1.590	-0.651	-0.179	0.292
##	theta[246,6]	0.288	0.835	-1.434	-0.222	0.297	0.807
##	theta[247,6]	-0.194	0.507	-1.247	-0.496	-0.194	0.123
##	theta[248,6]	-0.128	0.598	-1.287	-0.496	-0.145	0.214
##	theta[249,6]	0.195	0.677	-1.244	-0.213	0.201	0.622
##	theta[250,6]	0.075	0.625	-1.264	-0.298	0.091	0.469
	theta[251,6]	0.232	0.756	-1.330	-0.233	0.244	0.688
	theta[252,6]	0.060	0.531	-0.981	-0.264	0.030	0.368
	theta[253,6]	0.054	0.668	-1.355	-0.337	0.075	0.477
	theta[254,6]	0.014	0.559	-0.992	-0.353	-0.018	0.347
	theta[255,6]	0.422	0.479	-0.433	0.101	0.388	0.697
	theta[256,6]	-0.134	0.462	-1.057	-0.419	-0.126	0.147
	theta[257,6]	-0.283	0.834	-2.010	-0.787	-0.272	0.233
	theta[258,6]	0.046	0.621	-1.120	-0.355	0.008	0.406
	theta[259,6]	0.248	0.511	-0.696	-0.086	0.218	0.542
##	theta[260,6]	-0.218	0.530	-1.344	-0.530	-0.193	0.111
##	theta[261,6]	0.100	0.630	-1.228	-0.300	0.125	0.500
##	theta[262,6]	-0.564	0.570	-1.825	-0.885	-0.513	-0.195
##	theta[263,6]	-0.054	0.570	-1.274	-0.384	-0.016	0.321
##	theta[264,6]	0.153	0.665	-1.178	-0.257	0.154	0.573
##	theta[265,6]	0.003	0.610	-1.323	-0.343	0.041	0.391
##	theta[266,6]	-0.109	0.610	-1.264	-0.490	-0.115	0.231
##	theta[267,6]	-0.213	0.659	-1.501	-0.611	-0.218	0.175
	theta[268,6]	0.312	0.491	-0.579	-0.003	0.271	0.611
	theta[269,6]	0.053	0.505	-0.942	-0.272	0.044	0.361
	theta[270,6]	-0.013	0.543	-1.040	-0.357	-0.041	0.311
	theta[271,6]	0.000	0.551	-1.174	-0.322	0.020	0.354
	theta[272,6]	0.163	0.456	-0.686	-0.143	0.152	0.438
	theta[273,6]	-0.131	0.740	-1.574	-0.576	-0.151	0.280
	theta[274,6]	0.410	0.525	-0.515	0.064	0.371	0.704
	theta[275,6]	-0.295	0.851	-1.992	-0.803	-0.295	0.210
	theta[276,6]	0.042	0.448	-0.857	-0.245	0.040	0.326
	theta[277,6]	-0.008	0.624	-1.160	-0.400	-0.031	0.345
	theta[278,6]	-0.282	0.822	-1.936	-0.784	-0.296	0.210
	theta[279,6]	-0.231	0.662	-1.571	-0.615	-0.228	0.176
	theta[280,6]	-0.271	0.807	-1.830	-0.761	-0.284	0.218
##	theta[281,6]	-0.104	0.680	-1.473	-0.515	-0.109	0.298
##	theta[282,6]	-0.264	0.804	-1.897	-0.750	-0.265	0.228
##	theta[283,6]	-0.435	0.533	-1.638	-0.737	-0.392	-0.091
##	theta[284,6]	-0.223	0.669	-1.563	-0.624	-0.226	0.167
	theta[285,6]	-0.175	0.485	-1.203	-0.464	-0.171	0.133
	theta[286,6]	0.601	0.629	-0.477	0.181	0.545	0.947
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	theta[287,6]	-0.346	0.467	-1.392	-0.615	-0.325	-0.048
##	theta[288,6]	-0.240	0.541	-1.362	-0.548	-0.227	0.101
##	theta[289,6]	0.045	0.474	-0.881	-0.251	0.035	0.332
##	theta[290,6]	-0.140	0.598	-1.311	-0.509	-0.153	0.231
##	theta[291,6]	0.338	0.916	-1.538	-0.235	0.338	0.889
##	theta[292,6]	0.383	0.533	-0.590	0.029	0.348	0.681
##	theta[293,6]	-0.292	0.498	-1.407	-0.585	-0.264	0.024
##	theta[294,6]	-0.070	0.602	-1.338	-0.413	-0.044	0.324
##	theta[295,6]	-0.139	0.667	-1.468	-0.555	-0.139	0.280
##	theta[296,6]	0.165	0.657	-1.180	-0.244	0.174	0.553
##	theta[297,6]	0.164	0.698	-1.319	-0.246	0.177	0.580
##	theta[298,6]	-0.367	0.536	-1.609	-0.661	-0.332	-0.012
##	theta[299,6]	0.275	0.564	-0.818	-0.077	0.251	0.600
##	theta[300,6]	-0.063	0.578	-1.150	-0.425	-0.089	0.268
##	theta[301,6]	-0.216	0.650	-1.516	-0.604	-0.214	0.169
##	theta[302,6]	-0.106	0.650	-1.388	-0.504	-0.109	0.284
##	theta[303,6]	0.069	0.525	-0.917	-0.274	0.045	0.390
##	theta[304,6]	0.442	0.575	-0.607	0.062	0.396	0.782
##	theta[305,6]	-0.141	0.617	-1.300	-0.533	-0.172	0.216
##	theta[306,6]	0.007	0.545	-1.071	-0.323	-0.003	0.325
##	theta[307,6]	0.371	0.472	-0.487	0.061	0.343	0.649
##	theta[308,6]	0.310	0.457	-0.524	0.013	0.278	0.585
##	theta[309,6]	0.252	0.677	-1.119	-0.173	0.253	0.677
##	theta[310,6]	0.017	0.554	-1.162	-0.300	0.048	0.381
##	theta[311,6]	0.025	0.577	-1.074	-0.338	0.013	0.363
##	theta[312,6]	0.273	0.748	-1.257	-0.190	0.276	0.740
##	theta[313,6]	0.010	0.548	-1.008	-0.347	-0.011	0.330
##	theta[314,6]	0.054	0.454	-0.892	-0.224	0.059	0.338
##	theta[315,6]	-0.136	0.560	-1.265	-0.479	-0.146	0.195
##	theta[316,6]	0.342	0.491	-0.572	0.025	0.306	0.630
##	theta[317,6]	-0.198	0.572	-1.505	-0.529	-0.150	0.167
##	theta[318,6]	-0.033	0.601	-1.193	-0.403	-0.049	0.321
##	theta[319,6]	-0.005	0.546	-0.997	-0.358	-0.028	0.311
##	theta[320,6]	-0.058	0.570	-1.285	-0.388	-0.028	0.313
		0.383				0.026	
##	theta[321,6]		0.515	-0.527	0.039		0.685
##	theta[322,6]	-0.104	0.603	-1.267	-0.494	-0.126	0.265
	theta[323,6]	-0.211	0.648	-1.535	-0.597	-0.208	0.173
##	theta[324,6]	0.043	0.541	-0.992	-0.303	0.024	0.365
##	theta[325,6]	-0.054	0.643	-1.295	-0.453	-0.070	0.331
##	theta[326,6]	-0.074	0.578	-1.345	-0.403	-0.034	0.305
##	theta[327,6]	0.233	0.766	-1.354	-0.230	0.234	0.711
##	theta[328,6]	0.131	0.502	-0.789	-0.195	0.109	0.406
##	theta[329,6]	0.301	0.500	-0.608	-0.019	0.264	0.590
##	theta[330,6]	0.301	0.442	-0.526	0.012	0.286	0.569
##	theta[331,6]	-0.101	0.467	-1.109	-0.379	-0.076	0.203
##	theta[332,6]	0.213	0.518	-0.737	-0.118	0.186	0.521
##	theta[333,6]	-0.097	0.596	-1.392	-0.448	-0.056	0.286
##	theta[334,6]	0.251	0.818	-1.373	-0.271	0.244	0.773
##	theta[335,6]	0.068	0.528	-0.909	-0.265	0.053	0.367
##	theta[336,6]	0.242	0.479	-0.673	-0.072	0.226	0.532
##	theta[337,6]	0.084	0.564	-1.141	-0.254	0.102	0.443
##	theta[338,6]	-0.002	0.585	-1.250	-0.346	0.019	0.373
##	theta[339,6]	0.196	0.519	-0.769	-0.130	0.164	0.494
##	theta[340,6]	-0.212	0.657	-1.504	-0.609	-0.217	0.198
		V.212	3.501	1.001	3.303	V.211	0.100

##	theta[341,6]	-0.207	0.665	-1.511	-0.620	-0.219	0.190
##	theta[342,6]	0.270	0.837	-1.416	-0.246	0.275	0.777
##	theta[343,6]	0.229	0.685	-1.164	-0.198	0.234	0.680
##	theta[344,6]	-0.217	0.490	-1.245	-0.516	-0.208	0.084
##	theta[345,6]	0.249	0.698	-1.167	-0.176	0.256	0.672
##	theta[346,6]	-0.184	0.600	-1.360	-0.552	-0.189	0.192
##	theta[347,6]	0.097	0.477	-0.855	-0.204	0.089	0.387
##	theta[348,6]	0.213	0.560	-0.790	-0.157	0.179	0.518
##	theta[349,6]	0.214	0.442	-0.610	-0.075	0.197	0.478
##	theta[350,6]	-0.112	0.613	-1.313	-0.498	-0.114	0.253
##	theta[351,6]	-0.246	0.793	-1.853	-0.727	-0.250	0.250
##	theta[352,6]	-0.095	0.591	-1.341	-0.445	-0.069	0.295
##	theta[353,6]	0.242	0.688	-1.143	-0.203	0.242	0.683
##	theta[354,6]	-0.221	0.648	-1.542	-0.608	-0.224	0.171
##	theta[355,6]	0.284	0.488	-0.586	-0.037	0.246	0.562
##	theta[356,6]	-0.186	0.558	-1.279	-0.524	-0.180	0.149
##	theta[357,6]	0.171	0.426	-0.615	-0.107	0.158	0.421
##	theta[358,6]	-0.288	0.829	-1.967	-0.791	-0.279	0.225
##	theta[359,6]	-0.176	0.607	-1.358	-0.557	-0.178	0.180
##	theta[360,6]	0.189	0.538	-0.822	-0.148	0.168	0.497
##	theta[361,6]	-0.496	0.515	-1.678	-0.781	-0.459	-0.164
##	theta[362,6]	-0.011	0.536	-0.999	-0.342	-0.027	0.284
##	theta[363,6]	-0.094	0.645	-1.361	-0.495	-0.108	0.292
##	theta[364,6]	0.010	0.559	-1.167	-0.328	0.035	0.374
##	theta[365,6]	-0.222	0.485	-1.205	-0.515	-0.212	0.085
##	theta[366,6]	0.092	0.542	-0.937	-0.243	0.071	0.397
##	theta[367,6]	-0.065	0.589	-1.341	-0.416	-0.039	0.315
##	theta[368,6]	-0.141	0.649	-1.377	-0.539	-0.162	0.229
##	theta[369,6]	-0.133	0.733	-1.525	-0.584	-0.150	0.293
##	theta[370,6]	-0.205	0.645	-1.441	-0.613	-0.219	0.176
##	theta[371,6]	0.324	0.451	-0.484	0.030	0.300	0.580
##	theta[372,6]	-0.069	0.571	-1.241	-0.420	-0.035	0.284
##	theta[373,6]	0.041	0.439	-0.859	-0.224	0.043	0.322
##	theta[374,6]	-0.060	0.563	-1.143	-0.412	-0.069	0.279
##	theta[375,6]	-0.122	0.625	-1.364	-0.495	-0.136	0.243
##	theta[376,6]	-0.005	0.630	-1.208	-0.400	-0.029	0.348
##	theta[377,6]	-0.055	0.554	-1.223	-0.392	-0.034	0.312
##	theta[378,6]	0.176	0.514	-0.788	-0.142	0.158	0.476
##	theta[379,6]	0.090	0.573	-1.037	-0.261	0.078	0.439
	theta[380,6]	0.314	0.460	-0.541	0.008	0.300	0.587
	theta[381,6]	0.305	0.479	-0.554	-0.011	0.275	0.577
##	theta[382,6]	-0.082	0.463	-1.056	-0.357	-0.063	0.214
##	theta[383,6]	-0.178	0.625	-1.459	-0.563	-0.182	0.197
##	theta[384,6]	-0.023	0.680	-1.341	-0.435	-0.057	0.362
##	theta[385,6]	-0.010	0.585	-1.063	-0.399	-0.039	0.338
##	theta[386,6]	0.190	0.505	-0.747	-0.136	0.175	0.482
##	theta[387,6]	-0.069	0.550	-1.244	-0.383	-0.042	0.293
##	theta[388,6]	0.266	0.505	-0.678	-0.363	0.244	0.293
##							
	theta[389,6]	-0.197 -0.117	0.647	-1.471 -1.200	-0.591	-0.198	0.196
##	theta[390,6]	-0.117	0.561	-1.299	-0.451	-0.085	0.244
##	theta[391,6]	-0.010	0.446	-0.932	-0.278	0.002	0.276
##	theta[392,6]	-0.032	0.599	-1.320	-0.382	0.009	0.359
##	theta[393,6]	-0.015	0.537	-1.173	-0.325	0.009	0.330
##	theta[394,6]	-0.267	0.831	-1.966	-0.774	-0.256	0.239

	.1 . [005 6]	0.000	0 004	4 000	0.400	0.005	0 007
	theta[395,6]	0.236	0.691	-1.206	-0.186	0.235	0.667
##	theta[396,6]	-0.273	0.836	-1.974	-0.784	-0.271	0.215
##	theta[397,6]	0.261	0.697	-1.164	-0.168	0.264	0.694
##	theta[398,6]	0.205	0.516	-0.737	-0.126	0.178	0.506
##	theta[399,6]	0.295	0.829	-1.391	-0.213	0.305	0.809
##	theta[400,6]	-0.591	0.562	-1.840	-0.916	-0.538	-0.225
##	theta[401,6]	0.186	0.517	-0.753	-0.150	0.165	0.494
##	theta[402,6]	0.215	0.569	-0.801	-0.145	0.171	0.529
##	theta[403,6]	0.012	0.575	-1.051	-0.352	-0.006	0.347
##	theta[404,6]	-0.251	0.515	-1.385	-0.552	-0.216	0.092
##	theta[405,6]	0.006	0.626	-1.216	-0.379	-0.003	0.377
##	theta[406,6]	0.219	0.775	-1.340	-0.250	0.231	0.683
##	theta[407,6]	-0.248	0.566	-1.488	-0.560	-0.210	0.120
##	theta[408,6]	0.231	0.746	-1.245	-0.224	0.242	0.676
##	theta[409,6]	-0.058	0.614	-1.181	-0.446	-0.094	0.280
##	theta[410,6]	-0.182	0.742	-1.703	-0.625	-0.195	0.260
##		0.102		-0.630	-0.049	0.193	
	theta[411,6]		0.452				0.504
##	theta[412,6]	-0.091	0.586	-1.364	-0.431	-0.058	
##	theta[413,6]	-0.237	0.795	-1.875	-0.720	-0.224	0.243
##	theta[414,6]	0.032	0.639	-1.392	-0.323	0.059	0.442
##	theta[415,6]	0.282	0.729	-1.228	-0.167	0.302	0.736
##	theta[416,6]	-0.208	0.577	-1.474	-0.529	-0.166	0.156
##	theta[417,6]	-0.088	0.521	-1.220	-0.385	-0.064	0.241
##	theta[418,6]	-0.056	0.540	-1.232	-0.365	-0.028	0.277
##	theta[419,6]	0.208	0.530	-0.768	-0.130	0.180	0.511
##	theta[420,6]	-0.106	0.500	-1.209	-0.389	-0.090	0.218
##	theta[421,6]	0.280	0.724	-1.184	-0.171	0.272	0.738
##	theta[422,6]	-0.017	0.519	-1.002	-0.356	-0.038	0.300
##	theta[423,6]	0.295	0.699	-1.134	-0.151	0.306	0.727
##	theta[424,6]	-0.116	0.564	-1.317	-0.437	-0.096	0.252
##	theta[425,6]	-0.106	0.566	-1.320	-0.443	-0.080	0.263
##	theta[426,6]	0.250	0.765	-1.226	-0.206	0.234	0.717
##	theta[427,6]	0.080	0.459	-0.852	-0.207	0.080	0.375
##	theta[428,6]	0.028	0.610	-1.191	-0.366	0.021	0.407
##	theta[429,6]	-0.106	0.606	-1.255	-0.479	-0.121	0.263
##	theta[430,6]	-0.140	0.539	-1.298	-0.444	-0.109	0.204
##	theta[431,6]	-0.282	0.828	-1.917	-0.790	-0.287	0.233
##	theta[432,6]	-0.099	0.547	-1.161	-0.428	-0.107	0.234
##	theta[433,6]	-0.110	0.558	-1.214	-0.452	-0.107	0.226
##	theta[434,6]	-0.059	0.635	-1.353	-0.448	-0.062	0.320
##	theta[435,6]	0.235	0.772	-1.356	-0.247	0.254	0.718
##	theta[436,6]	0.228	0.780	-1.378	-0.252	0.231	0.708
##	theta[437,6]	-0.093	0.591	-1.382	-0.429	-0.075	0.293
##	theta[438,6]	0.029	0.522	-1.013	-0.294	0.022	0.345
##	theta[439,6]	-0.221	0.476	-1.243	-0.499	-0.209	0.078
##	theta[440,6]	-0.204	0.494	-1.253	-0.498	-0.188	0.076
##	theta[441,6]	0.244	0.434	-1.126	-0.182	0.133	0.668
##	theta[442,6]	0.230	0.777	-1.320 -1.028	-0.232	0.249	0.702
##	theta[443,6]	-0.059	0.506	-1.028	-0.385	-0.063	0.257
##	theta[444,6]	0.023	0.622	-1.172	-0.358	0.011	0.365
##	theta[445,6]	-0.191	0.684	-1.527	-0.614	-0.223	0.223
##	theta[446,6]	0.213	0.764	-1.388	-0.247	0.235	0.677
##	theta[447,6]	0.115	0.590	-1.031	-0.250	0.090	0.451
##	theta[448,6]	0.026	0.577	-1.128	-0.320	0.012	0.361

	theta[449,6]	0.283	0.511	-0.619	-0.052	0.237	0.577
	theta[450,6]	-0.153	0.568	-1.400	-0.460	-0.114	0.212
	theta[451,6]	0.004	0.610	-1.288	-0.343	0.030	0.388
	theta[452,6]	-0.172	0.538	-1.350	-0.472	-0.137	0.181
##	theta[453,6]	-0.214	0.582	-1.341	-0.584	-0.228	0.146
##	theta[454,6]	0.226	0.759	-1.321	-0.226	0.244	0.686
##	theta[455,6]	-0.178	0.504	-1.282	-0.475	-0.142	0.153
##	theta[456,6]	-0.188	0.587	-1.391	-0.534	-0.190	0.160
##	theta[457,6]	-0.037	0.430	-0.924	-0.293	-0.024	0.237
##	theta[458,6]	-0.177	0.611	-1.398	-0.534	-0.202	0.176
##	theta[459,6]	-0.122	0.574	-1.225	-0.473	-0.136	0.221
##	theta[460,6]	0.098	0.546	-0.930	-0.241	0.072	0.418
##	theta[461,6]	0.017	0.597	-1.183	-0.343	0.011	0.368
	theta[462,6]	0.042	0.563	-1.171	-0.278	0.058	0.394
	theta[463,6]	0.278	0.442	-0.533	-0.003	0.250	0.535
	theta[464,6]	-0.368	0.465	-1.394	-0.628	-0.337	-0.066
	theta[465,6]	0.145	0.533	-0.849	-0.189	0.124	0.449
	theta[466,6]	-0.039	0.579	-1.192	-0.396	-0.051	0.312
	theta[467,6]	-0.046	0.456	-0.974	-0.332	-0.026	0.253
	theta[468,6]	-0.218	0.655	-1.584	-0.608	-0.217	0.181
	theta[469,6]	0.146	0.532	-0.850	-0.197	0.128	0.463
	theta[470,6]	-0.005	0.515	-1.013	-0.331	-0.026	0.301
	theta[471,6]	0.003	0.600	-1.013	-0.342	0.020	0.372
		-0.114	0.608	-1.322		-0.114	
	theta[472,6] theta[473,6]		0.552	-1.145	-0.477 -0.406		0.234 0.253
		-0.077				-0.093	
	theta[474,6]	-0.070	0.565	-1.190 -1.401	-0.418	-0.076	0.274
	theta[475,6]	0.279	0.848	-1.421	-0.232	0.281	0.799
	theta[476,6]	-0.099	0.678	-1.416	-0.517	-0.113	0.313
	theta[477,6]	0.085	0.545	-0.932	-0.260	0.064	0.390
	theta[478,6]	-0.176	0.477	-1.194	-0.461	-0.161	0.125
	theta[479,6]	-0.023	0.451	-0.941	-0.304	-0.007	0.273
	theta[480,6]	-0.030	0.647	-1.299	-0.437	-0.043	0.352
	theta[481,6]	-0.087	0.575	-1.210	-0.445	-0.109	0.253
	theta[482,6]	-0.045	0.559	-1.248	-0.375	-0.012	0.324
	theta[483,6]	0.191	0.482	-0.721	-0.123	0.166	0.480
	theta[484,6]	0.203	0.523	-0.787	-0.131	0.182	0.519
	theta[485,6]	0.215	0.531	-0.775	-0.121	0.188	0.518
	theta[486,6]	-0.163	0.533	-1.345	-0.453	-0.134	0.176
	theta[487,6]	-0.033	0.493	-1.016	-0.335	-0.026	0.276
	theta[488,6]	-0.095	0.565	-1.277	-0.424	-0.077	0.261
	theta[489,6]	-0.013	0.628	-1.228	-0.401	-0.035	0.342
	theta[490,6]	0.057	0.439	-0.839	-0.221	0.070	0.331
	theta[491,6]	0.231	0.754	-1.253	-0.230	0.226	0.690
	theta[492,6]	0.066	0.532	-0.920	-0.283	0.042	0.382
	theta[493,6]	0.245	0.851	-1.564	-0.268	0.263	0.779
	theta[494,6]	-0.008	0.556	-1.013	-0.371	-0.045	0.312
	theta[495,6]	0.173	0.691	-1.258	-0.245	0.171	0.604
	theta[496,6]	0.072	0.534	-0.890	-0.270	0.045	0.381
##	theta[497,6]	0.190	0.775	-1.444	-0.269	0.199	0.675
##	theta[498,6]	0.350	0.759	-1.151	-0.124	0.337	0.815
	theta[499,6]	0.255	0.812	-1.461	-0.245	0.265	0.758
##	theta[500,6]	0.006	0.596	-1.273	-0.344	0.044	0.380
##	theta[501,6]	0.072	0.543	-0.998	-0.271	0.065	0.398
##	theta[502,6]	-0.092	0.561	-1.285	-0.425	-0.063	0.264

##	theta[503,6]	0.350	0.759	-1.145	-0.119	0.339	0.817
##	theta[504,6]	-0.003	0.548	-1.168	-0.324	0.021	0.344
##	theta[505,6]	0.143	0.719	-1.345	-0.283	0.149	0.575
##	theta[506,6]	0.273	0.834	-1.401	-0.209	0.277	0.757
##	theta[507,6]	-0.038	0.619	-1.417	-0.379	0.003	0.366
##	theta[508,6]	-0.069	0.609	-1.373	-0.427	-0.035	0.320
##	theta[509,6]	0.256	0.823	-1.418	-0.226	0.259	0.755
##	theta[510,6]	0.194	0.676	-1.163	-0.219	0.199	0.587
##	theta[511,6]	-0.103	0.561	-1.334	-0.427	-0.073	0.259
##	theta[512,6]	-0.068	0.559	-1.289	-0.402	-0.030	0.300
##	theta[513,6]	0.004	0.527	-0.979	-0.334	-0.030	0.302
##	theta[514,6]	-0.097	0.583	-1.415	-0.425	-0.066	0.286
##	theta[515,6]	-0.041	0.579	-1.287	-0.367	-0.014	0.323
##	theta[516,6]	-0.055	0.544	-1.229	-0.379	-0.032	0.297
##	theta[517,6]	0.226	0.626	-1.039	-0.162	0.226	0.619
##	theta[518,6]	0.139	0.479	-0.753	-0.167	0.119	0.420
	theta[519,6]	0.254	0.813	-1.428	-0.247	0.265	0.758
	theta[520,6]	0.058	0.545	-0.983	-0.275	0.040	0.363
	theta[521,6]	0.094	0.708	-1.384	-0.311	0.102	0.525
	theta[522,6]	0.230	0.721	-1.211	-0.208	0.249	0.673
	theta[523,6]	0.183	0.734	-1.387	-0.252	0.208	0.643
	theta[524,6]	0.219	0.758	-1.360	-0.242	0.219	0.690
	theta[525,6]	0.169	0.760	-1.408	-0.287	0.190	0.644
	theta[526,6]	0.228	0.734	-1.270	-0.212	0.221	0.701
	theta[527,6]	0.085	0.486	-0.807	-0.222	0.059	0.370
	theta[528,6]	0.096	0.486	-0.791	-0.221	0.075	0.381
	theta[529,6]	0.182	0.718	-1.292	-0.258	0.190	0.632
	theta[530,6]	0.120	0.700	-1.380	-0.317	0.128	0.574
	theta[531,6]	0.164	0.724	-1.381	-0.267	0.175	0.605
	theta[532,6]	0.358	0.912	-1.398	-0.212	0.324	0.917
	theta[533,6]	0.102	0.590	-0.996	-0.275	0.071	0.437
	theta[534,6]	0.365	0.929	-1.539	-0.199	0.366	0.933
	theta[535,6]	-0.009	0.559	-1.085	-0.365	-0.036	0.311
	theta[536,6]	0.142	0.517	-0.789	-0.187	0.115	0.426
	theta[1,7]	-0.244	0.320	-0.897	-0.440	-0.228	-0.032
	theta[2,7]	0.783	0.320	-0.044	0.437	0.741	1.071
	theta[3,7]	-0.211	0.333	-0.874	-0.428	-0.201	0.002
	theta[4,7]	0.425	0.397	-0.267	0.158	0.399	0.664
	theta[5,7]	-0.797	0.390	-1.646	-1.037	-0.763	-0.535
	theta[6,7]	-0.756	0.384	-1.611	-0.979	-0.720	-0.494
	theta[7,7]	-1.503	0.537	-2.721	-1.819	-1.450	-1.113
	theta[8,7]	-1.493		-2.732	-1.807	-1.429	-1.111
			0.535				-0.656
	theta[9,7]	-0.923 -1.012	0.391	-1.810 -1.889	-1.153 -1.249	-0.888 -0.075	-0.740
	theta[10,7] theta[11,7]	0.762	0.389		-1.248	-0.975 0.720	1.048
	theta[11,7]		0.477	-0.072	0.431		0.325
	•	0.108	0.356	-0.558	-0.132	0.092	
	theta[13,7]	-0.450	0.325	-1.143	-0.651	-0.435	-0.235
	theta[14,7]	-1.123	0.445	-2.154	-1.366 -1.101	-1.066 -0.846	-0.808 -0.616
	theta[15,7]	-0.878 -0.510	0.379	-1.738 -1.270	-1.101 -0.727	-0.846	-0.616
	theta[16,7]	-0.519	0.355	-1.279	-0.727	-0.508	-0.282
	theta[17,7]	-0.831 -0.061	0.377	-1.687	-1.054 -1.100	-0.790 -0.024	-0.564
	theta[18,7]	-0.961 -0.616	0.388	-1.827	-1.188	-0.924 -0.501	-0.691 -0.369
	theta[19,7]	-0.616	0.368	-1.433	-0.842	-0.591	-0.368
##	theta[20,7]	-1.647	0.614	-3.106	-1.990	-1.550	-1.218

##	theta[21,7]	0.779	0.488	-0.051	0.443	0.736	1.065
##	theta[22,7]	0.429	0.397	-0.278	0.158	0.406	0.670
##	theta[23,7]	1.527	0.726	0.392	1.008	1.438	1.936
##	theta[24,7]	-0.284	0.343	-0.992	-0.494	-0.276	-0.054
##	theta[25,7]	-0.043	0.339	-0.716	-0.265	-0.047	0.169
##	theta[26,7]	-1.758	0.612	-3.192	-2.110	-1.682	-1.318
##	theta[27,7]	-0.649	0.359	-1.420	-0.863	-0.630	-0.404
##	theta[28,7]	-1.969	0.698	-3.630	-2.341	-1.869	-1.466
##	theta[29,7]	-0.533	0.368	-1.345	-0.750	-0.510	-0.293
##	theta[30,7]	1.595	0.768	0.363	1.059	1.493	2.038
##	theta[31,7]	0.491	0.411	-0.220	0.207	0.465	0.749
##	theta[32,7]	1.536	0.731	0.360	1.013	1.447	1.962
##	theta[33,7]	0.368	0.404	-0.354	0.098	0.336	0.612
##	theta[34,7]	0.334	0.402	-0.378	0.057	0.304	0.593
##	theta[35,7]	0.553	0.442	-0.227	0.248	0.518	0.817
##	theta[36,7]	0.095	0.369	-0.580	-0.157	0.077	0.334
##	theta[37,7]	-0.345	0.324	-1.028	-0.541	-0.333	-0.128
##	theta[38,7]	-0.026	0.350	-0.701	-0.250	-0.030	0.195
##	theta[39,7]	0.647	0.470	-0.159	0.318	0.606	0.929
	theta[40,7]	-0.650	0.360	-1.406	-0.867	-0.631	-0.406
	theta[41,7]	-1.743	0.602	-3.189	-2.095	-1.660	-1.310
##	theta[42,7]	1.585	0.752	0.383	1.063	1.477	2.013
##	theta[43,7]	1.176	0.584	0.199	0.782	1.105	1.501
	theta[44,7]	-0.958	0.407	-1.864	-1.192	-0.923	-0.685
	theta[45,7]	0.437	0.400	-0.290	0.163	0.408	0.683
	theta[46,7]	0.068	0.341	-0.550	-0.161	0.047	0.283
	theta[47,7]	-0.609	0.370	-1.402	-0.825	-0.583	-0.358
	theta[48,7]	-0.289	0.337	-1.000	-0.500	-0.282	-0.069
	theta[49,7]	-1.560	0.529	-2.780	-1.880	-1.492	-1.180
	theta[50,7]	0.045	0.353	-0.657	-0.190	0.048	0.268
	theta[51,7]	-1.676	0.571	-2.967	-2.013	-1.600	-1.268
	theta[52,7]	-0.500	0.338	-1.240	-0.704	-0.485	-0.279
	theta[53,7]	-0.499	0.337	-1.205	-0.703	-0.488	-0.273
	theta[54,7]	0.772	0.484	-0.053	0.428	0.724	1.060
	theta[55,7]	0.024	0.384	-0.712	-0.224	0.015	0.270
	theta[56,7]	1.592	0.762	0.338	1.059	1.489	2.046
	theta[57,7]	1.151	0.566	0.216	0.750	1.087	1.483
	theta[58,7]	-1.747	0.630	-3.216	-2.090	-1.662	-1.301
	theta[59,7]	-0.630	0.363	-1.436	-0.842	-0.611	-0.384
	theta[60,7]	0.516	0.419	-0.232	0.229	0.486	0.790
	theta[61,7]	-0.845	0.391	-1.738	-1.067	-0.803	-0.582
	theta[62,7]	-1.698	0.589	-3.101	-2.031	-1.609	-1.277
	theta[63,7]	0.712	0.466	-0.095	0.391	0.672	1.000
	theta[64,7]	0.907	0.511	0.032	0.547	0.872	1.217
	theta[65,7]	0.388	0.423	-0.370	0.095	0.375	0.649
	theta[66,7]	-0.368	0.330	-1.060	-0.574	-0.351	-0.150
	theta[67,7]	0.557	0.451	-0.237	0.247	0.522	0.832
	theta[68,7]	-1.766	0.617	-3.212	-2.100	-1.686	-1.336
	theta[69,7]	-1.973	0.731	-3.760	-2.363	-1.860	-1.463
	theta[70,7]	-0.462	0.731	-1.144	-0.652	-0.448	-0.250
	theta[71,7]	-0.402	0.310	-1.144	-0.836	-0.448	-0.250
	theta[71,7]	-0.713	0.372	-1.546	-0.030	-0.691	-0.365
	theta[73,7]	-1.654	0.620	-3.126	-2.000	-1.564	-0.467
	theta[74,7]	0.676	0.620	-0.155	0.342	0.633	0.977
##	one oa [14,1]	0.070	0.4/4	0.100	0.342	0.033	0.911

##	theta[75,7]	-0.587	0.362	-1.394	-0.810	-0.564	-0.340
##	theta[76,7]	-1.944	0.677	-3.564	-2.296	-1.852	-1.458
##	theta[77,7]	-0.308	0.326	-0.965	-0.515	-0.301	-0.095
##	theta[78,7]	0.633	0.441	-0.146	0.332	0.601	0.907
##	theta[79,7]	1.556	0.740	0.371	1.033	1.459	1.981
##	theta[80,7]	0.005	0.353	-0.675	-0.230	0.005	0.229
##	theta[81,7]	-0.823	0.379	-1.712	-1.044	-0.780	-0.566
##	theta[82,7]	0.327	0.376	-0.371	0.075	0.313	0.564
##	theta[83,7]	-1.756	0.613	-3.228	-2.088	-1.666	-1.317
##	theta[84,7]	-0.289	0.346	-0.981	-0.507	-0.283	-0.063
##	theta[85,7]	-0.142	0.327	-0.785	-0.354	-0.148	0.066
##	theta[86,7]	0.202	0.344	-0.422	-0.039	0.192	0.425
##	theta[87,7]	0.074	0.338	-0.552	-0.150	0.060	0.284
##	theta[88,7]	0.159	0.365	-0.528	-0.075	0.136	0.391
##	theta[89,7]	1.534	0.706	0.347	1.038	1.463	1.936
##	theta[90,7]	0.817	0.493	-0.049	0.481	0.777	1.109
##	theta[91,7]	0.370	0.412	-0.389	0.087	0.353	0.613
##	theta[92,7]	-0.892	0.394	-1.768	-1.123	-0.853	-0.619
##	theta[93,7]	0.935	0.521	0.071	0.575	0.885	1.238
	theta[94,7]	0.884	0.528	-0.012	0.521	0.828	1.182
	theta[95,7]	1.579	0.755	0.373	1.046	1.483	2.006
	theta[96,7]	0.788	0.497	-0.069	0.450	0.744	1.079
	theta[97,7]	0.048	0.359	-0.657	-0.183	0.042	0.276
	theta[98,7]	-0.980	0.406	-1.919	-1.213	-0.941	-0.701
	theta[99,7]	0.738	0.495	-0.117	0.384	0.699	1.023
##	theta[100,7]	-1.071	0.429	-1.999	-1.324	-1.023	-0.772
##	theta[101,7]	-0.702	0.338	-1.435	-0.910	-0.686	-0.473
##	theta[102,7]	1.466	0.677	0.329	0.986	1.395	1.858
##	theta[103,7]	-0.596	0.364	-1.402	-0.812	-0.571	-0.362
##	theta[104,7]	0.865	0.506	0.000	0.509	0.827	1.173
##	theta[105,7]	0.006	0.332	-0.636	-0.209	-0.003	0.217
##	theta[106,7]	0.176	0.369	-0.507	-0.065	0.153	0.401
##	theta[107,7]	-0.685	0.373	-1.477	-0.909	-0.668	-0.440
##	theta[108,7]	1.551	0.713	0.398	1.043	1.454	1.959
##	theta[109,7]	0.514	0.425	-0.259	0.226	0.488	0.773
##	theta[110,7]	0.141	0.341	-0.511	-0.091	0.130	0.360
	theta[111,7]	-0.837	0.399	-1.697	-1.087	-0.803	-0.556
	theta[112,7]	-1.928	0.672	-3.500	-2.320	-1.833	-1.446
	theta[113,7]	0.099	0.364	-0.564	-0.145	0.077	0.324
	theta[114,7]	0.026	0.377	-0.714	-0.218	0.022	0.259
	theta[115,7]	-0.106	0.329	-0.755	-0.319	-0.106	0.102
	theta[116,7]	0.100	0.520	-0.038	0.501	0.100	1.165
	theta[117,7]	-1.748	0.608	-3.158	-2.088	-1.668	-1.320
	theta[117,7]	-0.005	0.356	-0.716	-0.239	-0.002	0.219
	theta[119,7]	0.239	0.383	-0.457	-0.026	0.231	0.213
	theta[120,7]	-1.984	0.681	-3.578	-2.378	-1.893	-1.489
	theta[121,7]	-1.367	0.480	-2.439	-1.660	-1.320	-1.021
##	theta[121,7]	-0.460	0.346	-1.173	-0.680	-0.438	-0.228
##	theta[123,7]	-0.692	0.340	-1.520	-0.918	-0.662	-0.437
##	theta[123,7] theta[124,7]	1.553	0.301	0.375	1.050	1.459	1.984
	theta[124,7] theta[125,7]	0.296	0.728	-0.424	0.031	0.272	0.539
	theta[125,7] theta[126,7]	0.296	0.392	-0.424	0.031	0.272	0.539
	theta[127,7]	1.062	0.554	0.116	0.669	1.012	1.390
##	theta[128,7]	0.580	0.470	-0.256	0.260	0.549	0.865

##	theta[129,7]	-0.114	0.349	-0.827	-0.337	-0.117	0.121
	theta[130,7]	0.202	0.374	-0.470	-0.050	0.183	0.431
##	theta[131,7]	-0.507	0.342	-1.248	-0.720	-0.481	-0.278
	theta[132,7]	0.341	0.407	-0.388	0.066	0.310	0.590
##	theta[133,7]	-0.523	0.331	-1.217	-0.726	-0.508	-0.298
##	theta[134,7]	-1.659	0.611	-3.132	-1.991	-1.574	-1.231
##	theta[135,7]	-1.478	0.527	-2.692	-1.782	-1.415	-1.103
##	theta[136,7]	0.880	0.526	-0.006	0.518	0.824	1.186
##	theta[137,7]	0.095	0.336	-0.523	-0.126	0.083	0.304
##	theta[138,7]	1.199	0.582	0.235	0.796	1.135	1.539
##	theta[139,7]	-1.563	0.538	-2.785	-1.885	-1.496	-1.180
##	theta[140,7]	1.159	0.576	0.182	0.761	1.100	1.495
##	theta[141,7]	0.047	0.348	-0.620	-0.186	0.035	0.259
##	theta[142,7]	0.544	0.440	-0.262	0.241	0.517	0.814
##	theta[143,7]	-0.841	0.389	-1.699	-1.075	-0.809	-0.574
##	theta[144,7]	-0.874	0.366	-1.690	-1.095	-0.837	-0.609
##	theta[145,7]	-0.532	0.346	-1.273	-0.748	-0.517	-0.297
##	theta[146,7]	0.370	0.396	-0.348	0.105	0.344	0.611
##	theta[147,7]	0.887	0.520	-0.003	0.526	0.842	1.187
##	theta[148,7]	-1.947	0.696	-3.516	-2.336	-1.851	-1.443
##	theta[149,7]	0.449	0.421	-0.301	0.160	0.420	0.704
##	theta[150,7]	1.581	0.763	0.371	1.055	1.478	1.986
##	theta[151,7]	0.492	0.436	-0.253	0.192	0.449	0.745
##	theta[152,7]	0.767	0.494	-0.087	0.429	0.723	1.049
##	theta[153,7]	0.643	0.453	-0.147	0.336	0.601	0.917
##	theta[154,7]	0.586	0.446	-0.216	0.285	0.552	0.859
##	theta[155,7]	0.035	0.336	-0.587	-0.188	0.016	0.248
##	theta[156,7]	0.974	0.523	0.061	0.602	0.928	1.293
##	theta[157,7]	0.441	0.408	-0.286	0.160	0.415	0.677
##	theta[158,7]	-0.279	0.340	-0.969	-0.493	-0.274	-0.060
##	theta[159,7]	0.174	0.375	-0.553	-0.076	0.163	0.414
##	theta[160,7]	1.077	0.552	0.155	0.695	1.009	1.403
##	theta[161,7]	0.714	0.477	-0.106	0.385	0.679	0.992
##	theta[162,7]	0.256	0.382	-0.428	0.005	0.230	0.492
##	theta[163,7]	0.876	0.516	-0.023	0.526	0.833	1.176
##	theta[164,7]	1.123	0.578	0.162	0.718	1.065	1.473
##	theta[165,7]	-1.971	0.715	-3.698	-2.354	-1.861	-1.479
	theta[166,7]	-1.565	0.544	-2.835	-1.880	-1.496	-1.185
##	theta[167,7]	-1.271	0.460	-2.318	-1.523	-1.211	-0.956
	theta[168,7]	1.548	0.725	0.386	1.030	1.457	1.978
	theta[169,7]	0.183	0.375	-0.502	-0.069	0.161	0.412
	theta[170,7]	-1.948	0.705	-3.583	-2.338	-1.848	-1.433
	theta[171,7]	-0.622	0.347	-1.382	-0.823	-0.587	-0.385
	theta[172,7]	0.530	0.448	-0.239	0.221	0.495	0.792
##	theta[173,7]	1.534	0.723	0.366	1.032	1.436	1.953
	theta[174,7]	-0.059	0.335	-0.706	-0.276	-0.061	0.156
	theta[175,7]	-0.486	0.342	-1.201	-0.697	-0.469	-0.253
##	theta[176,7]	-0.006	0.374	-0.732	-0.247	-0.012	0.228
##	theta[177,7]	0.350	0.375	-0.337	0.095	0.334	0.578
	theta[178,7]	-0.631	0.351	-1.401	-0.846	-0.600	-0.393
	theta[179,7]	0.417	0.424	-0.319	0.124	0.384	0.676
	theta[180,7]	0.829	0.500	-0.021	0.492	0.781	1.117
	theta[181,7]	-1.488	0.537	-2.734	-1.782	-1.414	-1.100
	theta[182,7]	0.630	0.434	-0.128	0.334	0.590	0.891
		2.000					

## theta[183,7]	0.072	0.338	-0.585	-0.149	0.071	0.283
## theta[184,7]	1.461	0.661	0.370	0.990	1.391	1.832
## theta[185,7]	1.036	0.559	0.097	0.640	0.985	1.365
## theta[186,7]	1.050	0.545	0.134	0.668	1.003	1.371
## theta[187,7]	-0.812	0.357	-1.588	-1.024	-0.786	-0.564
## theta[188,7]	-0.422	0.351	-1.169	-0.632	-0.406	-0.189
## theta[189,7]	1.588	0.750	0.398	1.047	1.486	2.010
## theta[190,7]	1.580	0.728	0.360	1.060	1.498	2.013
## theta[191,7]	0.300	0.388	-0.411	0.034	0.282	0.525
## theta[192,7]	1.157	0.581	0.215	0.751	1.102	1.487
## theta[193,7]	1.059	0.576	0.097	0.655	1.006	1.403
## theta[194,7]	-0.335	0.344	-1.038	-0.547	-0.321	-0.105
## theta[195,7]	-1.073	0.415	-2.018	-1.306	-1.026	-0.779
## theta[196,7]	1.158	0.580	0.195	0.759	1.098	1.502
## theta[197,7]	1.007	0.543	0.083	0.636	0.952	1.324
## theta[198,7]	1.544	0.729	0.368	1.025	1.461	1.958
## theta[199,7]	1.205	0.592	0.222	0.791	1.146	1.553
## theta[200,7]	-0.571	0.339	-1.299	-0.783	-0.547	-0.344
## theta[201,7]	1.527	0.701	0.350	1.035	1.463	1.940
## theta[202,7]	0.506	0.441	-0.260	0.196	0.474	0.765
## theta[203,7]	0.533	0.420	-0.218	0.243	0.500	0.782
## theta[204,7]	0.909	0.519	0.030	0.551	0.856	1.208
## theta[205,7]	0.051	0.363	-0.637	-0.189	0.042	0.282
## theta[206,7]	0.465	0.436	-0.316	0.175	0.443	0.730
## theta[207,7]	0.469	0.407	-0.244	0.190	0.431	0.719
## theta[208,7]	-0.534	0.343	-1.237	-0.755	-0.520	-0.299
## theta[209,7]	0.489	0.415	-0.240	0.202	0.461	0.737
## theta[210,7]	1.553	0.717	0.393	1.055	1.466	1.957
## theta[211,7]	-0.794	0.354	-1.573	-1.001	-0.756	-0.554
## theta[212,7]	0.042	0.354	-0.607	-0.192	0.028	0.262
## theta[213,7]	1.540	0.716	0.380	1.040	1.453	1.948
## theta[214,7]	0.849	0.513	-0.011	0.479	0.799	1.155
## theta[215,7]	-0.819	0.367	-1.645	-1.028	-0.786	-0.567
## theta[216,7]	1.565	0.751	0.357	1.047	1.467	1.993
## theta[217,7]	-1.663	0.618	-3.111	-1.984	-1.576	-1.230
## theta[218,7]	0.833	0.494	0.002	0.486	0.792	1.126
## theta[219,7]	-0.338	0.317	-0.983	-0.546	-0.336	-0.129
## theta[220,7]	-0.046	0.333	-0.684	-0.260	-0.056	0.167
## theta[221,7]	0.212	0.366	-0.498	-0.026	0.196	0.448
## theta[222,7]	0.858	0.476	0.049	0.533	0.816	1.157
## theta[223,7]	1.583	0.768	0.386	1.050	1.482	2.014
## theta[224,7]	-1.748	0.606	-3.111	-2.090	-1.678	-1.317
## theta[225,7]	0.936	0.504	0.072	0.584	0.891	1.251
## theta[226,7]	-0.481	0.349	-1.234	-0.693	-0.459	-0.248
## theta[227,7]	-1.976	0.715	-3.696	-2.372	-1.868	-1.467
## theta[228,7]	-0.715	0.367	-1.499	-0.942	-0.685	-0.468
## theta[229,7]	0.852	0.516	-0.027	0.500	0.797	1.156
## theta[230,7]	0.297	0.355	-0.354	0.064	0.278	0.509
## theta[231,7]	-1.961	0.725	-3.690	-2.360	-1.855	-1.448
## theta[232,7]	0.500	0.406	-0.229	0.223	0.474	0.750
## theta[233,7]	-0.367	0.371	-1.135	-0.602	-0.352	-0.121
## theta[234,7]	0.532	0.432	-0.250	0.231	0.514	0.796
## theta[235,7]	-0.563	0.339	-1.283	-0.773	-0.541	-0.338
## theta[236,7]	-0.576	0.362	-1.340	-0.795	-0.560	-0.337
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##	theta[237,7]	-0.160	0.337	-0.800	-0.379	-0.171	0.058
##	theta[238,7]	0.900	0.522	0.015	0.543	0.857	1.196
##	theta[239,7]	-0.580	0.341	-1.293	-0.780	-0.552	-0.354
##	theta[240,7]	-0.461	0.335	-1.177	-0.663	-0.447	-0.238
##	theta[241,7]	0.361	0.386	-0.351	0.096	0.344	0.604
##	theta[242,7]	0.509	0.425	-0.221	0.213	0.480	0.764
##	theta[243,7]	0.528	0.416	-0.201	0.246	0.496	0.775
##	theta[244,7]	-0.215	0.380	-0.963	-0.456	-0.212	0.030
##	theta[245,7]	1.215	0.627	0.186	0.762	1.159	1.581
##	theta[246,7]	-1.651	0.597	-3.104	-1.996	-1.567	-1.225
##	theta[247,7]	0.690	0.469	-0.136	0.359	0.655	0.966
##	theta[248,7]	0.780	0.490	-0.056	0.442	0.735	1.066
##	theta[249,7]	-1.132	0.450	-2.151	-1.406	-1.077	-0.818
	theta[250,7]	-0.807	0.391	-1.702	-1.029	-0.763	-0.543
	theta[251,7]	-1.486	0.527	-2.739	-1.784	-1.419	-1.120
	theta[252,7]	0.291	0.404	-0.433	0.014	0.265	0.539
##	theta[253,7]	-1.229	0.443	-2.232	-1.484	-1.183	-0.921
##	theta[254,7]	0.353	0.377	-0.325	0.098	0.329	0.587
	theta[255,7]	-0.541	0.314	-1.202	-0.735	-0.524	-0.336
	theta[256,7]	0.447	0.415	-0.282	0.154	0.416	0.700
	theta[257,7]	1.550	0.726	0.353	1.039	1.473	1.978
	theta[258,7]	0.169	0.720	-0.518	-0.078	0.149	0.397
	theta[259,7]	0.103	0.348	-0.470	-0.033	0.143	0.413
	theta[260,7]	0.706	0.459	-0.085	0.381	0.170	0.413
	theta[261,7]	-0.878	0.387	-1.772	-1.111	-0.847	-0.615
	-		0.307		0.001		
	theta[262,7]	0.284 -0.145	0.369	-0.455 -0.883	-0.384	0.268 -0.145	0.532
	theta[263,7]						
	theta[264,7]	-0.966	0.411	-1.874	-1.214	-0.930	-0.682
##	theta[265,7]	-0.862	0.360	-1.666	-1.077	-0.830	-0.611
##	theta[266,7]	1.034	0.534	0.141	0.666	0.979	1.343
##	theta[267,7]	1.167	0.579	0.234	0.757	1.091	1.505
##	theta[268,7]	-0.292	0.314	-0.955	-0.488	-0.285	-0.081
##	theta[269,7]	0.498	0.428	-0.275	0.208	0.470	0.758
##	theta[270,7]	0.407	0.389	-0.308	0.154	0.382	0.635
##	theta[271,7]	-0.473	0.356	-1.226	-0.691	-0.456	-0.238
##	theta[272,7]	-0.080	0.312	-0.685	-0.284	-0.083	0.115
	theta[273,7]	1.117	0.573	0.165	0.710	1.058	1.446
	theta[274,7]	-0.711	0.350	-1.459	-0.928	-0.683	-0.467
	theta[275,7]	1.571	0.760	0.380	1.044	1.481	1.966
	theta[276,7]	0.040	0.355	-0.632	-0.200	0.026	0.269
	theta[277,7]	0.851	0.492	0.018	0.499	0.813	1.158
	theta[278,7]	1.575	0.746	0.368	1.046	1.480	2.005
	theta[279,7]	1.158	0.580	0.224	0.753	1.097	1.484
##	theta[280,7]	1.527	0.701	0.369	1.038	1.453	1.938
##	theta[281,7]	1.148	0.581	0.185	0.727	1.089	1.483
##	theta[282,7]	1.528	0.712	0.381	1.029	1.437	1.924
##	theta[283,7]	0.240	0.378	-0.465	-0.011	0.223	0.473
##	theta[284,7]	0.895	0.524	0.013	0.525	0.851	1.196
##	theta[285,7]	-0.416	0.310	-1.079	-0.610	-0.401	-0.210
##	theta[286,7]	-1.104	0.417	-2.049	-1.358	-1.064	-0.807
##	theta[287,7]	0.279	0.381	-0.428	0.026	0.257	0.504
	theta[288,7]	0.797	0.492	-0.049	0.456	0.754	1.091
	theta[289,7]	0.426	0.403	-0.299	0.152	0.407	0.675
	theta[290,7]	0.898	0.504	-0.004	0.557	0.860	1.189
						2.000	

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	theta[291,7]	-1.968	0.692	-3.587	-2.357	-1.876	-1.476
##	theta[292,7]	-0.307	0.341	-0.989	-0.517	-0.299	-0.083
##	theta[293,7]	-0.086	0.341	-0.744	-0.311	-0.089	0.126
##	theta[294,7]	-0.366	0.375	-1.151	-0.601	-0.357	-0.123
##	theta[295,7]	1.066	0.566	0.130	0.676	1.001	1.403
##	theta[296,7]	-1.076	0.430	-2.051	-1.321	-1.033	-0.777
##	theta[297,7]	-1.307	0.460	-2.338	-1.587	-1.254	-0.983
##	theta[298,7]	0.036	0.356	-0.639	-0.200	0.029	0.266
##	theta[299,7]	-0.941	0.391	-1.830	-1.168	-0.909	-0.679
##	theta[300,7]	0.449	0.419	-0.279	0.160	0.420	0.703
##	theta[301,7]	1.164	0.578	0.189	0.771	1.100	1.509
##	theta[302,7]	1.013	0.554	0.056	0.623	0.962	1.352
##	theta[303,7]	0.525	0.420	-0.208	0.232	0.499	0.774
##	theta[304,7]	-0.580	0.356	-1.339	-0.796	-0.572	-0.341
##	theta[305,7]	0.695	0.480	-0.119	0.358	0.655	0.975
##	theta[306,7]	0.485	0.428	-0.256	0.192	0.444	0.740
##	theta[307,7]	-0.355	0.331	-1.054	-0.562	-0.337	-0.131
##	theta[308,7]	-0.128	0.336	-0.817	-0.348	-0.125	0.094
##	theta[309,7]	-1.372	0.484	-2.483	-1.659	-1.318	-1.034
##	theta[310,7]	-0.288	0.345	-1.006	-0.502	-0.277	-0.060
##	theta[311,7]	0.521	0.451	-0.265	0.212	0.478	0.791
##	theta[312,7]	-1.559	0.534	-2.744	-1.887	-1.496	-1.171
##	theta[313,7]	0.691	0.460	-0.081	0.365	0.654	0.961
##	theta[314,7]	-0.357	0.321	-1.013	-0.558	-0.354	-0.145
##	theta[315,7]	0.835	0.485	0.009	0.496	0.790	1.134
##	theta[316,7]	-0.129	0.343	-0.803	-0.353	-0.127	0.091
##	theta[317,7]	-0.009	0.389	-0.749	-0.262	-0.015	0.242
##	theta[318,7]	0.707	0.474	-0.111	0.385	0.675	0.979
##	theta[319,7]	0.460	0.409	-0.261	0.186	0.431	0.698
##	theta[320,7]	-0.305	0.369	-1.033	-0.532	-0.302	-0.077
##	theta[321,7]	-0.212	0.337	-0.892	-0.425	-0.211	0.008
##	theta[322,7]	0.941	0.523	0.051	0.578	0.884	1.244
##	theta[323,7]	1.171	0.587	0.221	0.757	1.106	1.506
##	theta[324,7]	0.641	0.440	-0.134	0.342	0.610	0.900
##	theta[325,7]	0.961	0.538	0.049	0.584	0.914	1.285
##	theta[326,7]	-0.145	0.373	-0.875	-0.375	-0.146	0.089
	theta[327,7]	-1.498	0.523	-2.731	-1.801	-1.423	-1.133
##	theta[328,7]	0.338	0.365	-0.330	0.096	0.318	0.559
##	theta[329,7]	-0.019	0.334	-0.664	-0.241	-0.024	0.198
##	theta[330,7]	-0.250	0.337	-0.936	-0.468	-0.250	-0.030
##	theta[331,7]	0.228	0.387	-0.478	-0.035	0.207	0.465
##	theta[332,7]						
	-	0.147	0.353	-0.536	-0.086	0.128	0.364
##	theta[333,7]	-0.217	0.391	-0.996	-0.464	-0.219	0.032
##	theta[334,7]	-1.747	0.623	-3.211	-2.092	-1.659	-1.316
##	theta[335,7]	0.578	0.428	-0.178	0.281	0.546	0.840
##	theta[336,7]	0.155	0.348	-0.492	-0.080	0.139	0.377
##	theta[337,7]	-0.716	0.359	-1.465	-0.945	-0.691	-0.469
##	theta[338,7]	-0.482	0.358	-1.245	-0.708	-0.463	-0.241
##	theta[339,7]	0.313	0.379	-0.391	0.053	0.297	0.545
##	theta[340,7]	1.163	0.581	0.191	0.760	1.106	1.507
##	theta[341,7]	1.186	0.593	0.201	0.767	1.115	1.534
##	theta[342,7]	-1.742	0.614	-3.169	-2.091	-1.653	-1.308
##	theta[343,7]	-1.360	0.477	-2.430	-1.644	-1.311	-1.023
##	theta[344,7]	0.656	0.445	-0.133	0.347	0.618	0.935

##	theta[345,7]	-1.374	0.490	-2.499	-1.653	-1.313	-1.030
##	theta[346,7]	1.054	0.540	0.155	0.680	0.996	1.381
##	theta[347,7]	-0.589	0.336	-1.318	-0.799	-0.565	-0.361
##	theta[348,7]	0.163	0.357	-0.507	-0.078	0.148	0.387
##	theta[349,7]	-0.062	0.348	-0.719	-0.291	-0.067	0.158
##	theta[350,7]	0.940	0.517	0.076	0.569	0.881	1.241
##	theta[351,7]	1.472	0.676	0.361	0.992	1.409	1.865
##	theta[352,7]	-0.212	0.386	-1.008	-0.456	-0.212	0.034
##	theta[353,7]	-1.391	0.489	-2.519	-1.681	-1.335	-1.049
##	theta[354,7]	1.159	0.582	0.202	0.749	1.092	1.500
##	theta[355,7]	0.094	0.369	-0.623	-0.149	0.081	0.327
##	theta[356,7]	0.729	0.467	-0.076	0.397	0.686	1.009
##	theta[357,7]	0.057	0.325	-0.550	-0.159	0.051	0.265
##	theta[358,7]	1.567	0.747	0.327	1.029	1.487	2.017
##	theta[359,7]	0.814	0.747	-0.026	0.462	0.770	1.117
##	theta[360,7]	0.468	0.410	-0.250	0.182	0.440	0.722
##	theta[361,7]	0.384	0.405	-0.315	0.108	0.358	0.623
##	theta[362,7]	0.365	0.412	-0.355	0.085	0.340	0.614
##	theta[363,7]	1.082	0.538	0.188	0.712	1.029	1.390
##	theta[364,7]	-0.503	0.355	-1.259	-0.719	-0.484	-0.269
##	theta[365,7]	0.704	0.440	-0.070	0.400	0.670	0.968
##	theta[366,7]	0.649	0.446	-0.139	0.342	0.605	0.927
##	theta[367,7]	-0.363	0.378	-1.105	-0.608	-0.361	-0.118
##	theta[368,7]	0.791	0.497	-0.056	0.445	0.750	1.092
##	theta[369,7]	1.124	0.585	0.168	0.710	1.055	1.463
##	theta[370,7]	1.160	0.576	0.222	0.752	1.101	1.502
##	theta[371,7]	-0.307	0.331	-1.020	-0.512	-0.296	-0.096
##	theta[372,7]	-0.305	0.369	-1.054	-0.536	-0.308	-0.068
##	theta[373,7]	-0.101	0.330	-0.765	-0.319	-0.107	0.119
##	theta[374,7]	0.649	0.472	-0.141	0.330	0.612	0.917
##	theta[375,7]	1.124	0.547	0.229	0.743	1.076	1.446
##	theta[376,7]	0.872	0.521	0.020	0.511	0.808	1.165
##	theta[377,7]	-0.318	0.370	-1.099	-0.551	-0.310	-0.079
##	theta[378,7]	0.377	0.405	-0.346	0.111	0.348	0.619
##	theta[379,7]	0.643	0.460	-0.151	0.319	0.609	0.927
##	theta[380,7]	-0.341	0.335	-1.032	-0.547	-0.326	-0.128
##	theta[381,7]	-0.038	0.361	-0.752	-0.273	-0.043	0.195
	theta[382,7]	0.079	0.384	-0.653	-0.177	0.064	0.324
	theta[383,7]	1.044	0.534	0.122	0.673	0.994	1.355
	theta[384,7]	0.977	0.534	0.068	0.613	0.924	1.292
	theta[385,7]	0.741	0.471	-0.110	0.420	0.713	1.021
	theta[386,7]	0.145	0.386	-0.547	-0.105	0.120	0.380
	theta[387,7]	-0.307	0.375	-1.070	-0.538	-0.302	-0.067
##	theta[388,7]	0.307	0.379	-0.546	-0.102	0.302	0.381
##	theta[389,7]	1.162	0.584	0.193	0.752	1.109	1.499
##	theta[390,7]	0.065	0.401	-0.682	-0.201	0.041	0.312
##	theta[391,7]	-0.018	0.362	-0.691	-0.263	-0.031	0.208
##	theta[392,7]	-0.422	0.377	-1.247	-0.646	-0.399	-0.184
##	theta[393,7]	-0.383	0.372	-1.160	-0.607	-0.372	-0.148
##	theta[394,7]	1.541	0.746	0.324	1.014	1.443	1.976
##	theta[395,7]	-1.359	0.479	-2.445	-1.640	-1.314	-1.020
	theta[396,7]	1.558	0.726	0.387	1.059	1.472	1.957
	theta[397,7]	-1.384	0.497	-2.507	-1.677	-1.328	-1.026
##	theta[398,7]	0.264	0.410	-0.465	-0.014	0.234	0.508

##	theta[399,7]	-1.671	0.601	-3.070	-2.016	-1.588	-1.250
##	theta[400,7]	0.785	0.481	-0.053	0.454	0.739	1.077
##	theta[401,7]	-0.048	0.344	-0.716	-0.269	-0.058	0.169
##	theta[402,7]	0.138	0.362	-0.524	-0.104	0.122	0.361
##	theta[403,7]	0.714	0.471	-0.095	0.389	0.676	1.008
##	theta[404,7]	-0.105	0.357	-0.795	-0.334	-0.108	0.124
##	theta[405,7]	0.822	0.499	-0.025	0.479	0.775	1.112
##	theta[406,7]	-1.504	0.549	-2.756	-1.833	-1.434	-1.107
##	theta[407,7]	-0.059	0.361	-0.759	-0.297	-0.066	0.166
##	theta[408,7]	-1.505	0.543	-2.713	-1.834	-1.442	-1.116
##	theta[409,7]	0.580	0.457	-0.219	0.274	0.540	0.845
##	theta[410,7]	1.257	0.621	0.214	0.817	1.189	1.633
##		-0.101	0.353	-0.771			0.123
	theta[411,7]				-0.339	-0.114	
##	theta[412,7]	-0.219	0.376	-0.983	-0.455	-0.216	0.027
##	theta[413,7]	1.455	0.676	0.338	0.990	1.377	1.864
##	theta[414,7]	-0.747	0.373	-1.580	-0.961	-0.718	-0.492
##	theta[415,7]	-1.558	0.525	-2.774	-1.861	-1.500	-1.187
##	theta[416,7]	-0.009	0.389	-0.757	-0.263	-0.020	0.234
##	theta[417,7]	-0.260	0.338	-0.954	-0.470	-0.254	-0.044
##	theta[418,7]	-0.502	0.355	-1.302	-0.710	-0.482	-0.266
##	theta[419,7]	0.263	0.409	-0.495	-0.008	0.238	0.512
##	theta[420,7]	-0.395	0.330	-1.048	-0.612	-0.383	-0.184
##	theta[421,7]	-1.539	0.527	-2.764	-1.845	-1.479	-1.160
##	theta[422,7]	0.475	0.424	-0.269	0.189	0.440	0.725
##	theta[423,7]	-1.464	0.519	-2.623	-1.770	-1.395	-1.097
##	theta[424,7]	-0.156	0.385	-0.928	-0.397	-0.158	0.080
##	theta[425,7]	-0.163	0.379	-0.897	-0.398	-0.171	0.078
##	theta[426,7]	-1.515	0.547	-2.744	-1.822	-1.435	-1.132
##	theta[427,7]	-0.424	0.341	-1.128	-0.635	-0.414	-0.207
##	theta[428,7]	0.826	0.505	-0.023	0.470	0.770	1.125
##	theta[429,7]	1.040	0.529	0.138	0.666	0.992	1.356
##	theta[430,7]	-0.216	0.359	-0.935	-0.444	-0.215	0.014
##		1.558	0.752	0.382	1.029	1.458	1.987
	theta[431,7]						
##	theta[432,7]	0.904	0.491	0.049	0.561	0.867	1.197
##	theta[433,7]	0.907	0.493	0.060	0.555	0.868	1.219
##	theta[434,7]	0.980	0.552	0.062	0.594	0.921	1.300
	theta[435,7]	-1.500	0.545	-2.760	-1.813	-1.426	-1.112
	theta[436,7]	-1.523	0.551	-2.800	-1.829	-1.449	-1.141
	theta[437,7]	-0.219	0.385	-0.980	-0.457	-0.224	0.030
	theta[438,7]	0.410	0.423	-0.362	0.124	0.387	0.667
	theta[439,7]	0.440	0.415	-0.284	0.162	0.406	0.684
	theta[440,7]	0.780	0.475	-0.035	0.452	0.734	1.059
##	theta[441,7]	-1.364	0.478	-2.443	-1.628	-1.306	-1.036
##	theta[442,7]	-1.515	0.545	-2.781	-1.841	-1.447	-1.127
##	theta[443,7]	0.734	0.451	-0.071	0.420	0.704	1.009
##	theta[444,7]	0.771	0.488	-0.063	0.427	0.730	1.068
##	theta[445,7]	1.197	0.589	0.213	0.790	1.128	1.530
##	theta[446,7]	-1.500	0.531	-2.713	-1.805	-1.435	-1.131
##	theta[447,7]	0.588	0.454	-0.203	0.280	0.557	0.855
##	theta[448,7]	0.695	0.462	-0.103	0.380	0.652	0.970
##	theta[449,7]	-0.162	0.340	-0.839	-0.384	-0.158	0.053
	theta[450,7]	-0.228	0.365	-0.954	-0.463	-0.222	0.015
	theta[451,7]	-0.546	0.370	-1.328	-0.778	-0.516	-0.296
	theta[452,7]	-0.142	0.351	-0.859	-0.363	-0.144	0.230
пπ	0110 0th [TOZ, 1]	0.142	0.551	0.009	0.000	0.144	0.010

##	theta[453,7]	0.703	0.465	-0.094	0.383	0.672	0.974
##	theta[454,7]	-1.500	0.546	-2.771	-1.806	-1.429	-1.120
##	theta[455,7]	-0.483	0.325	-1.171	-0.683	-0.464	-0.265
##	theta[456,7]	0.765	0.480	-0.067	0.437	0.720	1.056
##	theta[457,7]	0.112	0.360	-0.563	-0.129	0.099	0.340
##	theta[458,7]	1.047	0.537	0.134	0.675	0.985	1.358
##	theta[459,7]	0.615	0.452	-0.182	0.302	0.582	0.878
##	theta[460,7]	0.372	0.414	-0.356	0.099	0.348	0.622
##	theta[461,7]	0.750	0.482	-0.078	0.421	0.707	1.038
##	theta[462,7]	-0.571	0.356	-1.336	-0.792	-0.544	-0.333
##	theta[463,7]	-0.348	0.321	-0.999	-0.550	-0.343	-0.133
##	theta[464,7]	0.502	0.418	-0.234	0.217	0.471	0.767
##	theta[465,7]	0.412	0.417	-0.338	0.140	0.382	0.655
##	theta[466,7]	0.871	0.500	0.047	0.517	0.831	1.158
##	theta[467,7]	0.005	0.361	-0.669	-0.239	-0.005	0.242
##	theta[468,7]	1.162	0.588	0.175	0.761	1.096	1.492
##	theta[469,7]	0.394	0.420	-0.345	0.112	0.350	0.640
##	theta[470,7]	0.558	0.434	-0.225	0.268	0.529	0.821
##	theta[471,7]	0.754	0.484	-0.063	0.420	0.710	1.042
##	theta[472,7]	1.030	0.532	0.123	0.664	0.976	1.331
##	theta[473,7]	0.732	0.477	-0.098	0.392	0.696	1.029
##	theta[474,7]	0.730	0.464	-0.063	0.402	0.688	1.000
##	theta[475,7]	-1.661	0.627	-3.153	-1.999	-1.569	-1.225
##	theta[476,7]	1.177	0.578	0.234	0.762	1.114	1.509
##	theta[477,7]	0.374	0.412	-0.351	0.099	0.343	0.617
##	theta[478,7]	0.668	0.442	-0.084	0.359	0.624	0.941
##	theta[479,7]	-0.066	0.359	-0.755	-0.302	-0.080	0.165
##	theta[480,7]	0.975	0.534	0.074	0.602	0.928	1.295
##	theta[481,7]	0.979	0.512	0.106	0.627	0.923	1.285
##	theta[482,7]	-0.475	0.345	-1.181	-0.694	-0.466	-0.246
##	theta[483,7]	0.170	0.370	-0.502	-0.082	0.146	0.393
##	theta[484,7]	0.258	0.403	-0.478	-0.014	0.233	0.495
##	theta[485,7]	0.257	0.412	-0.471	-0.014	0.223	0.498
##	theta[486,7]	0.053	0.369	-0.700	-0.175	0.054	0.285
##	theta[487,7]	0.580	0.432	-0.176	0.301	0.544	0.844
##	theta[488,7]	-0.165	0.386	-0.932	-0.405	-0.171	0.072
	theta[489,7]	0.105	0.504	0.004	0.507	0.804	1.136
	theta[490,7]	-0.331	0.304	-0.992	-0.537	-0.322	-0.117
	theta[491,7]	-1.500	0.543	-2.748	-1.816	-1.428	-1.105
	theta[492,7]	0.433	0.425	-0.313	0.145	0.404	0.691
	theta[493,7]	-1.737	0.423	-3.185	-2.077	-1.646	-1.311
	theta[494,7]	0.372	0.389	-0.330	0.109	0.344	0.608
	theta[495,7]	-1.200	0.369	-0.330 -2.277	-1.456	-1.144	-0.879
##	theta[496,7]	0.610			0.315	0.568	0.879
##	theta[497,7]	-1.584	0.425 0.550	-0.141 -2.851		-1.508	-1.187
##	theta[498,7]	-1.663	0.579	-2.851 -3.029	-1.892 -1.979		-1.167
						-1.575 -1.634	
##	theta[499,7]	-1.721 -0.530	0.603	-3.128 -1.371	-2.052 -0.755	-1.634 -0.512	-1.297 -0.295
##	theta[500,7]	-0.539	0.368	-1.371 -0.363	-0.755 0.101	-0.512	-0.295
##	theta[501,7]	0.399	0.432	-0.363	0.101	0.373	0.654
##	theta[502,7]	-0.374	0.343	-1.105	-0.594	-0.366	-0.140
##	theta[503,7]	-1.702	0.606	-3.117	-2.033	-1.618	-1.278
	theta[504,7]	-0.378	0.361	-1.127	-0.607	-0.369	-0.137
	theta[505,7]	-1.262	0.461	-2.319	-1.523	-1.208	-0.934
##	theta[506,7]	-1.727	0.616	-3.210	-2.073	-1.655	-1.292

##	theta[507,7]	-0.582	0.368	-1.368	-0.796	-0.556	-0.339
##	theta[508,7]	-0.370	0.379	-1.137	-0.606	-0.358	-0.126
##	theta[509,7]	-1.729	0.606	-3.174	-2.067	-1.640	-1.300
##	theta[510,7]	-1.323	0.464	-2.428	-1.587	-1.268	-0.996
##	theta[511,7]	-0.160	0.379	-0.912	-0.389	-0.161	0.071
##	theta[512,7]	-0.309	0.370	-1.073	-0.543	-0.308	-0.064
##	theta[513,7]	0.439	0.399	-0.298	0.164	0.422	0.686
##	theta[514,7]	-0.217	0.381	-0.977	-0.458	-0.221	0.036
##	theta[515,7]	-0.288	0.371	-1.037	-0.518	-0.279	-0.053
##	theta[516,7]	-0.239	0.368	-0.973	-0.465	-0.232	0.001
##	theta[517,7]	-1.058	0.426	-2.063	-1.297	-1.018	-0.764
##	theta[518,7]	0.235	0.368	-0.452	-0.006	0.216	0.464
##	theta[519,7]	-1.732	0.600	-3.114	-2.090	-1.653	-1.301
##	theta[520,7]	0.599	0.444	-0.172	0.292	0.558	0.868
##	theta[521,7]	-1.130	0.429	-2.116	-1.386	-1.077	-0.821
##	theta[522,7]	-1.270	0.476	-2.387	-1.532	-1.216	-0.936
##	theta[523,7]	-1.304	0.470	-2.381	-1.575	-1.249	-0.968
##		-1.503	0.544	-2.749	-1.807	-1.436	-1.125
	theta[524,7]						-1.125
##	theta[525,7]	-1.466	0.520	-2.657	-1.755	-1.402	
##	theta[526,7]	-1.281	0.480	-2.378	-1.550	-1.224	-0.942
##	theta[527,7]	0.261	0.378	-0.431	0.002	0.242	0.497
##	theta[528,7]	0.253	0.389	-0.460	-0.006	0.224	0.488
##	theta[529,7]	-1.260	0.465	-2.315	-1.544	-1.207	-0.935
##	theta[530,7]	-1.371	0.475	-2.492	-1.641	-1.308	-1.042
##	theta[531,7]	-1.292	0.474	-2.377	-1.557	-1.243	-0.952
##	theta[532,7]	-1.964	0.711	-3.634	-2.382	-1.858	-1.443
##	theta[533,7]	0.639	0.450	-0.153	0.332	0.601	0.906
##	theta[534,7]	-1.962	0.727	-3.702	-2.341	-1.853	-1.453
##	theta[535,7]	0.642	0.450	-0.142	0.332	0.610	0.909
##	theta[536,7]	0.219	0.389	-0.493	-0.030	0.187	0.455
##	theta[1,8]	-0.331	0.494	-1.350	-0.630	-0.317	-0.017
##	theta[2,8]	-0.232	0.666	-1.574	-0.642	-0.220	0.179
##	theta[3,8]	0.173	0.536	-0.919	-0.161	0.165	0.502
##		0.257	0.514	-0.740	-0.080	0.103	0.579
	theta[4,8]		0.314				
##	theta[5,8]	-0.407		-1.900	-0.852	-0.393	0.059
##	theta[6,8]	-0.249	0.664	-1.624	-0.658	-0.236	0.173
	theta[7,8]	-0.324	0.936	-2.261	-0.920	-0.294	0.270
##	theta[8,8]	-0.322	0.964	-2.317	-0.918	-0.284	0.297
	theta[9,8]	-0.456	0.666	-1.821	-0.871	-0.431	-0.021
	theta[10,8]	-0.174	0.658	-1.533	-0.591	-0.158	0.255
	theta[11,8]	0.350	0.616	-0.820	-0.033	0.333	0.710
##	theta[12,8]	0.456	0.487	-0.462	0.126	0.442	0.764
##	theta[13,8]	-0.082	0.484	-1.056	-0.384	-0.080	0.229
##	theta[14,8]	-0.459	0.788	-2.070	-0.949	-0.452	0.057
##	theta[15,8]	-0.273	0.694	-1.660	-0.725	-0.265	0.186
##	theta[16,8]	-0.510	0.542	-1.631	-0.834	-0.486	-0.147
##	theta[17,8]	0.098	0.757	-1.488	-0.362	0.105	0.569
##	theta[18,8]	-0.199	0.636	-1.500	-0.594	-0.191	0.208
##	theta[19,8]	-0.430	0.618	-1.688	-0.816	-0.415	-0.030
##	theta[19,8]	-0.322	1.027	-2.445	-0.951	-0.305	0.359
##	theta[20,8]		0.612				
		0.165		-1.038 -0.714	-0.227 -0.071	0.157	0.556
	theta[22,8]	0.266	0.513	-0.714	-0.071	0.259	0.581
##	theta[23,8]	0.353	0.989	-1.615	-0.302	0.347	0.958
##	theta[24,8]	-0.290	0.488	-1.331	-0.583	-0.270	0.041

##	theta[25,8]	0.408	0.466	-0.465	0.098	0.396	0.689
##	theta[26,8]	-0.367	1.021	-2.434	-1.016	-0.361	0.305
##	theta[27,8]	-0.022	0.570	-1.172	-0.380	-0.018	0.335
##	theta[28,8]	-0.357	1.140	-2.608	-1.103	-0.367	0.423
##	theta[29,8]	-0.246	0.595	-1.430	-0.630	-0.231	0.138
##	theta[30,8]	0.365	1.032	-1.624	-0.299	0.347	0.996
##	theta[31,8]	-0.293	0.536	-1.414	-0.624	-0.278	0.037
##	theta[32,8]	0.322	0.963	-1.581	-0.306	0.345	0.909
##	theta[33,8]	0.332	0.606	-0.880	-0.055	0.337	0.719
##	theta[34,8]	-0.369	0.534	-1.454	-0.698	-0.367	-0.033
##	theta[35,8]	0.361	0.578	-0.757	-0.019	0.344	0.706
##	theta[36,8]	0.707	0.531	-0.304	0.354	0.680	1.040
##	theta[37,8]	-0.498	0.497	-1.533	-0.818	-0.480	-0.166
##	theta[38,8]	0.533	0.534	-0.472	0.184	0.516	0.853
##	theta[39,8]	0.462	0.662	-0.807	0.027	0.443	0.863
##	theta[40,8]	-0.215	0.577	-1.383	-0.574	-0.211	0.146
##	theta[41,8]	-0.384	1.014	-2.531	-1.029	-0.359	0.306
##	theta[42,8]	0.364	1.024	-1.614	-0.295	0.352	1.002
##	theta[43,8]	0.299	0.794	-1.248	-0.210	0.299	0.784
##	theta[44,8]	-0.423	0.734	-1.933	-0.890	-0.396	0.063
##	theta[45,8]	0.071	0.544	-0.973	-0.277	0.065	0.415
##	theta[46,8]	-0.098	0.457	-0.996	-0.395	-0.093	0.197
##	theta[47,8]	-0.421	0.617	-1.633	-0.819	-0.402	-0.019
##	theta[48,8]	-0.549	0.513	-1.617	-0.869	-0.532	-0.198
##	theta[49,8]	-0.028	0.844	-1.712	-0.563	-0.035	0.520
##	theta[50,8]	-0.582	0.509	-1.661	-0.895	-0.554	-0.243
##	theta[51,8]	-0.029	0.923	-1.951	-0.602	-0.003	0.556
##	theta[52,8]	0.340	0.627	-0.923	-0.053	0.336	0.731
##	theta[53,8]	-0.001	0.591	-1.217	-0.360	-0.010	0.377
##	theta[54,8]	-0.041	0.658	-1.379	-0.439	-0.032	0.360
##	theta[55,8]	-0.656	0.510	-1.770	-0.958	-0.631	-0.316
##	theta[56,8]	0.358	0.997	-1.664	-0.268	0.361	0.980
##	theta[57,8]	0.232	0.771	-1.269	-0.268	0.232	0.737
##	theta[58,8]	-0.362	1.005	-2.419	-1.003	-0.363	0.302
##	theta[59,8]	-0.200	0.568	-1.368	-0.546	-0.193	0.166
##	theta[60,8]	0.046	0.522	-1.019	-0.278	0.052	0.380
##	theta[61,8]	-0.249	0.721	-1.707	-0.707	-0.224	0.222
	theta[62,8]	-0.023	0.937	-1.955	-0.626	-0.001	0.616
	theta[63,8]	0.246	0.614	-0.958	-0.145	0.248	0.614
	theta[64,8]	0.356	0.645	-0.888	-0.056	0.342	0.758
	theta[65,8]	0.349	0.540	-0.671	-0.005	0.339	0.677
	theta[66,8]	-0.406	0.498	-1.407	-0.719	-0.385	-0.083
	theta[67,8]	0.359	0.590	-0.782	-0.019	0.347	0.735
	theta[68,8]	-0.357	1.019	-2.424	-1.008	-0.343	0.325
##	theta[69,8]	-0.373	1.151	-2.738	-1.086	-0.370	0.400
##	theta[70,8]	-0.307	0.528	-1.407	-0.645	-0.299	0.039
##	theta[71,8]	-0.055	0.585	-1.232	-0.419	-0.053	0.312
##	theta[72,8]	-0.018	0.603	-1.274	-0.385	-0.007	0.374
##	theta[73,8]	-0.327	1.047	-2.490	-0.993	-0.298	0.370
##	theta[74,8]	0.370	0.660	-0.946	-0.039	0.353	0.774
##	theta[75,8]	-0.410	0.626	-1.653	-0.808	-0.408	0.004
	theta[76,8]	-0.384	1.148	-2.716	-1.114	-0.359	0.004
##	theta[77,8]	0.226	0.505	-0.757	-0.093	0.223	0.531
	theta[77,8]	0.016	0.565	-1.143	-0.334	0.223	0.376
ππ	one oa [10,0]	0.010	0.000	1.140	0.334	0.019	0.570

##	theta[79,8]	0.364	1.003	-1.540	-0.288	0.358	0.978
##	theta[80,8]	-0.280	0.508	-1.356	-0.599	-0.265	0.041
##	theta[81,8]	-0.451	0.679	-1.875	-0.877	-0.423	-0.012
##	theta[82,8]	0.070	0.498	-0.905	-0.256	0.063	0.380
##	theta[83,8]	-0.367	1.012	-2.461	-1.004	-0.342	0.298
##	theta[84,8]	0.195	0.587	-0.955	-0.178	0.193	0.565
##	theta[85,8]	0.360	0.488	-0.589	0.040	0.351	0.657
##	theta[86,8]	-0.254	0.493	-1.328	-0.551	-0.234	0.065
##	theta[87,8]	-0.005	0.489	-1.003	-0.311	-0.009	0.304
##	theta[88,8]	-0.060	0.561	-1.203	-0.402	-0.046	0.294
##	theta[89,8]	0.350	1.014	-1.533	-0.288	0.330	0.950
##	theta[90,8]	0.232	0.682	-1.106	-0.204	0.218	0.671
##	theta[91,8]	0.138	0.503	-0.824	-0.193	0.125	0.463
##	theta[92,8]	-0.445	0.693	-1.851	-0.875	-0.436	0.005
##	theta[93,8]	0.321	0.694	-1.030	-0.129	0.316	0.753
##	theta[94,8]	0.368	0.734	-1.092	-0.106	0.359	0.822
##	theta[95,8]	0.355	1.018	-1.625	-0.318	0.357	0.986
##	theta[96,8]	-0.239	0.685	-1.672	-0.647	-0.218	0.182
##	theta[97,8]	-0.410	0.493	-1.450	-0.725	-0.396	-0.090
##	theta[98,8]	-0.477	0.688	-1.899	-0.919	-0.465	-0.006
##	theta[99,8]	0.452	0.636	-0.781	0.034	0.437	0.848
	theta[100,8]	-0.281	0.833	-1.973	-0.800	-0.264	0.246
	theta[101,8]	0.193	0.568	-0.941	-0.170	0.181	0.545
	theta[102,8]	0.374	0.996	-1.624	-0.244	0.375	0.994
##	theta[103,8]	-0.039	0.559	-1.186	-0.387	-0.035	0.318
##	theta[104,8]	-0.063	0.767	-1.594	-0.548	-0.058	0.415
##	theta[105,8]	0.239	0.451	-0.621	-0.060	0.226	0.527
##	theta[106,8]	0.034	0.473	-0.914	-0.267	0.025	0.318
##	theta[107,8]	0.339	0.770	-1.254	-0.133	0.351	0.819
##	theta[108,8]	0.369	0.993	-1.483	-0.287	0.351	0.970
##	theta[100,8]	0.245	0.549	-0.852	-0.107	0.236	0.603
##	theta[110,8]	0.353	0.471	-0.557	0.043	0.341	0.645
##	theta[111,8]	-0.389	0.471	-1.852	-0.849	-0.388	0.043
##	theta[111,8]	-0.366	1.137	-1.652 -2.758	-1.058	-0.358	0.092
	-	0.140		-2.738 -0.727	-0.166	0.129	0.399
##	theta[113,8]		0.468				
##	theta[114,8]	-0.449	0.505	-1.488	-0.759	-0.437	-0.120
	theta[115,8]	0.333	0.436	-0.515	0.043	0.323	0.614
	theta[116,8]	-0.070	0.762	-1.626	-0.532	-0.056	0.407
	theta[117,8]	-0.368	1.009	-2.437	-0.995	-0.337	0.296
	theta[118,8]	-0.588	0.506	-1.694	-0.897	-0.564	-0.242
	theta[119,8]	-0.388	0.507	-1.432	-0.704	-0.377	-0.066
	theta[120,8]	-0.392	1.187	-2.881	-1.115	-0.362	0.394
	theta[121,8]	-0.026	0.815	-1.717	-0.521	-0.017	0.508
	theta[122,8]	-0.441	0.553	-1.569	-0.792	-0.422	-0.073
##	theta[123,8]	-0.260	0.644	-1.601	-0.661	-0.241	0.149
##	theta[124,8]	0.337	1.001	-1.631	-0.300	0.344	0.959
##	theta[125,8]	0.294	0.565	-0.835	-0.059	0.292	0.658
##	theta[126,8]	-0.120	0.610	-1.378	-0.491	-0.110	0.258
##	theta[127,8]	0.208	0.782	-1.345	-0.289	0.213	0.698
##	theta[128,8]	-0.378	0.754	-1.896	-0.835	-0.371	0.082
##	theta[129,8]	-0.332	0.461	-1.258	-0.630	-0.320	-0.041
##	theta[130,8]	0.221	0.598	-0.994	-0.152	0.230	0.596
##	theta[131,8]	-0.486	0.538	-1.601	-0.825	-0.468	-0.134
##	theta[132,8]	-0.052	0.541	-1.131	-0.380	-0.059	0.273

##	theta[133,8]	-0.087	0.516	-1.114	-0.427	-0.078	0.248
##	theta[134,8]	-0.333	1.012	-2.381	-0.977	-0.333	0.372
##	theta[135,8]	-0.009	0.861	-1.708	-0.551	-0.007	0.557
##	theta[136,8]	0.373	0.733	-1.006	-0.107	0.365	0.840
##	theta[137,8]	-0.037	0.444	-0.964	-0.315	-0.030	0.248
##	theta[138,8]	0.089	0.768	-1.453	-0.390	0.078	0.575
##	theta[139,8]	-0.055	0.857	-1.781	-0.606	-0.026	0.501
##	theta[140,8]	0.507	0.815	-1.047	-0.021	0.491	1.007
##	theta[141,8]	0.286	0.467	-0.609	-0.033	0.272	0.593
##	theta[142,8]	-0.036	0.637	-1.299	-0.432	-0.048	0.360
##	theta[143,8]	-0.409	0.711	-1.869	-0.845	-0.403	0.050
##	theta[144,8]	-0.098	0.625	-1.415	-0.480	-0.081	0.301
##	theta[145,8]	-0.483	0.565	-1.715	-0.824	-0.457	-0.101
##	theta[146,8]	0.123	0.513	-0.920	-0.208	0.115	0.444
##	theta[147,8]	0.514	0.672	-0.764	0.068	0.493	0.934
##	theta[148,8]	-0.378	1.121	-2.689	-1.065	-0.370	0.350
##	theta[149,8]	0.078	0.566	-0.994	-0.281	0.061	0.429
##	theta[150,8]	0.346	1.011	-1.634	-0.276	0.336	0.955
##	theta[151,8]	0.463	0.578	-0.653	0.092	0.439	0.830
##	theta[152,8]	-0.215	0.756	-1.732	-0.692	-0.209	0.257
##	theta[153,8]	-0.022	0.707	-1.433	-0.457	-0.030	0.409
##	theta[154,8]	0.587	0.662	-0.687	0.153	0.572	1.012
##	theta[155,8]	0.156	0.485	-0.799	-0.158	0.150	0.457
##	theta[156,8]	0.133	0.400	-1.209	-0.314	0.129	0.539
##	theta[157,8]	0.117	0.564	-0.912	-0.162	0.123	0.526
##	theta[158,8]	-0.462	0.527	-1.603	-0.782	-0.438	-0.112
##	theta[159,8]	-0.038	0.327	-0.965	-0.341	-0.037	0.112
##							
	theta[160,8]	0.078	0.685	-1.300	-0.342	0.087	0.512
##	theta[161,8]	0.348	0.621	-0.809	-0.055	0.335	0.742
##	theta[162,8]	0.057	0.565	-1.062	-0.310	0.056	0.397
##	theta[163,8]	0.374	0.732	-1.045	-0.105	0.361	0.839
##	theta[164,8]	0.520	0.779	-0.981	0.015	0.498	0.994
##	theta[165,8]	-0.357	1.134	-2.759	-1.044	-0.351	0.388
##	theta[166,8]	-0.034	0.848	-1.694	-0.573	-0.039	0.490
##	theta[167,8]	-0.514	0.794	-2.152	-1.020	-0.497	0.004
##	theta[168,8]	0.366	1.005	-1.598	-0.273	0.327	0.981
	theta[169,8]	0.268	0.611	-0.931	-0.123	0.270	0.645
	theta[170,8]	-0.346	1.131	-2.597	-1.054	-0.331	0.408
	theta[171,8]	-0.607	0.560	-1.768	-0.962	-0.578	-0.248
	theta[172,8]	-0.036	0.601	-1.277	-0.419	-0.021	0.352
	theta[173,8]	0.339	0.982	-1.525	-0.306	0.318	0.937
##	theta[174,8]	-0.415	0.484	-1.381	-0.715	-0.406	-0.099
##	theta[175,8]	-0.269	0.497	-1.277	-0.584	-0.254	0.062
##	theta[176,8]	-0.595	0.502	-1.639	-0.912	-0.577	-0.263
##	theta[177,8]	-0.266	0.482	-1.253	-0.567	-0.253	0.043
##	theta[178,8]	0.401	0.603	-0.850	0.035	0.399	0.777
##	theta[179,8]	0.097	0.549	-0.984	-0.251	0.095	0.442
##	theta[180,8]	-0.134	0.687	-1.551	-0.546	-0.119	0.285
##	theta[181,8]	-0.323	0.961	-2.348	-0.931	-0.316	0.286
##	theta[182,8]	0.078	0.532	-0.983	-0.253	0.085	0.395
##	theta[183,8]	0.150	0.472	-0.775	-0.153	0.144	0.451
##	theta[184,8]	0.374	0.977	-1.605	-0.253	0.393	0.991
##	theta[185,8]	0.202	0.782	-1.345	-0.312	0.212	0.717
##	theta[186,8]	0.271	0.710	-1.105	-0.180	0.256	0.708
	,						

	theta[187,8]	0.375	0.634	-0.953	0.001	0.381	0.760
	theta[188,8]	-0.479	0.543	-1.631	-0.818	-0.455	-0.108
	theta[189,8]	0.369	1.017	-1.608	-0.284	0.329	1.011
	theta[190,8]	0.357	1.003	-1.641	-0.292	0.353	0.967
	theta[191,8]	0.381	0.566	-0.683	0.002	0.363	0.744
##	theta[192,8]	0.239	0.770	-1.285	-0.238	0.239	0.720
##	theta[193,8]	0.329	0.863	-1.377	-0.239	0.307	0.871
##	theta[194,8]	-0.564	0.508	-1.661	-0.875	-0.533	-0.219
##	theta[195,8]	-0.044	0.660	-1.388	-0.472	-0.034	0.380
##	theta[196,8]	0.243	0.783	-1.285	-0.260	0.249	0.726
##	theta[197,8]	0.212	0.773	-1.370	-0.267	0.224	0.692
##	theta[198,8]	0.353	1.001	-1.619	-0.292	0.353	0.970
##	theta[199,8]	0.016	0.793	-1.599	-0.502	0.033	0.511
##	theta[200,8]	0.036	0.588	-1.169	-0.336	0.049	0.416
##	theta[201,8]	0.350	0.990	-1.560	-0.302	0.341	0.960
##	theta[202,8]	0.054	0.634	-1.223	-0.340	0.053	0.432
##	theta[203,8]	0.430	0.564	-0.648	0.070	0.405	0.780
##	theta[204,8]	-0.164	0.773	-1.709	-0.618	-0.152	0.307
##	theta[205,8]	-0.587	0.509	-1.654	-0.904	-0.570	-0.250
##	theta[206,8]	-0.306	0.650	-1.620	-0.694	-0.296	0.080
##	theta[207,8]	-0.031	0.500	-1.052	-0.357	-0.027	0.294
##	theta[208,8]	0.507	0.611	-0.780	0.139	0.502	0.883
##	theta[209,8]	0.282	0.561	-0.820	-0.088	0.280	0.643
##	theta[210,8]	0.362	1.006	-1.614	-0.280	0.371	0.986
##	theta[211,8]	-0.319	0.627	-1.619	-0.710	-0.302	0.093
##	theta[212,8]	0.139	0.450	-0.774	-0.148	0.138	0.413
##	theta[213,8]	0.338	0.989	-1.615	-0.313	0.335	0.947
##	theta[214,8]	-0.060	0.768	-1.580	-0.552	-0.057	0.423
##	theta[215,8]	0.377	0.640	-0.890	-0.019	0.365	0.765
##	theta[216,8]	0.377	1.028	-1.593	-0.285	0.361	0.998
##	theta[217,8]	-0.322	1.026	-2.496	-0.965	-0.293	0.349
##	theta[218,8]	-0.127	0.697	-1.551	-0.562	-0.119	0.293
##	theta[219,8]	0.629	0.518	-0.340	0.288	0.598	0.957
##	theta[220,8]	-0.107	0.483	-1.089	-0.408	-0.104	0.199
##	theta[221,8]	-0.509	0.484	-1.539	-0.808	-0.481	-0.191
##	theta[222,8]	0.146	0.580	-0.996	-0.224	0.142	0.511
##	theta[223,8]	0.354	1.005	-1.583	-0.300	0.354	0.968
	theta[224,8]	-0.365	1.013	-2.440	-1.002	-0.355	0.284
	theta[225,8]	0.238	0.723	-1.163	-0.226	0.237	0.680
	theta[226,8]	-0.475	0.579	-1.680	-0.836	-0.464	-0.096
	theta[227,8]	-0.382	1.165	-2.795	-1.098	-0.367	0.412
	theta[228,8]	-0.427	0.644	-1.752	-0.832	-0.407	-0.009
##	theta[229,8]	0.083	0.657	-1.261	-0.323	0.083	0.498
	theta[230,8]	0.235	0.471	-0.691	-0.073	0.236	0.533
##	theta[231,8]	-0.371	1.138	-2.755	-1.077	-0.370	0.389
##	theta[232,8]	0.168	0.478	-0.761	-0.139	0.154	0.459
##	theta[233,8]	-0.433	0.571	-1.636	-0.788	-0.419	-0.066
##	theta[234,8]	-0.332	0.586	-1.528	-0.673	-0.320	0.032
##	theta[235,8]	0.061	0.605	-1.144	-0.315	0.058	0.429
##	theta[236,8]	0.546	0.663	-0.767	0.136	0.528	0.953
	theta[237,8]	0.188	0.515	-0.806	-0.142	0.182	0.507
	theta[238,8]	-0.169	0.779	-1.734	-0.641	-0.169	0.317
	theta[239,8]	-0.477	0.564	-1.719	-0.830	-0.454	-0.106
	theta[240,8]	0.047	0.566	-1.085	-0.316	0.049	0.408
ırπ	5110 0tt [Z=0,0]	0.041	0.000	1.000	0.010	0.043	0.400

##	theta[241,8]	0.460	0.550	-0.640	0.104	0.453	0.807
##	theta[242,8]	0.027	0.511	-1.030	-0.293	0.043	0.354
##	theta[243,8]	-0.002	0.525	-1.039	-0.344	-0.004	0.336
##	theta[244,8]	-0.410	0.543	-1.495	-0.753	-0.416	-0.044
##	theta[245,8]	0.358	0.844	-1.316	-0.176	0.354	0.872
##	theta[246,8]	-0.323	1.026	-2.513	-0.968	-0.316	0.368
##	theta[247,8]	-0.310	0.618	-1.593	-0.671	-0.281	0.071
##	theta[248,8]	0.329	0.655	-0.980	-0.091	0.325	0.730
##	theta[249,8]	-0.254	0.846	-1.990	-0.767	-0.247	0.285
##	theta[250,8]	-0.256	0.672	-1.608	-0.691	-0.246	0.191
##	theta[251,8]	-0.325	0.948	-2.328	-0.886	-0.311	0.289
##	theta[252,8]	0.345	0.506	-0.634	0.017	0.345	0.653
##	theta[253,8]	-0.172	0.833	-1.822	-0.697	-0.172	0.372
##	theta[254,8]	0.127	0.532	-0.909	-0.217	0.115	0.479
##	theta[255,8]	-0.081	0.527	-1.185	-0.400	-0.067	0.248
##	theta[256,8]	-0.007	0.570	-1.192	-0.358	-0.001	0.336
##	theta[257,8]	0.367	1.017	-1.653	-0.285	0.354	0.979
##	theta[258,8]	0.520	0.587	-0.626	0.136	0.512	0.891
##	theta[259,8]	-0.126	0.533	-1.226	-0.450	-0.128	0.209
					-0.639		0.205
##	theta[260,8]	-0.208	0.690	-1.631		-0.203	
##	theta[261,8]	-0.271	0.694	-1.674 -1.565	-0.703	-0.252	0.181
##	theta[262,8]	-0.293	0.633		-0.680	-0.283	0.088
##	theta[263,8]	-0.466	0.534	-1.614	-0.786	-0.436	-0.111
##	theta[264,8]	-0.432	0.762	-1.986	-0.893	-0.419	0.062
##	theta[265,8]	-0.380	0.607	-1.635	-0.769	-0.363	0.021
##	theta[266,8]	0.225	0.704	-1.166	-0.213	0.221	0.658
##	theta[267,8]	0.245	0.772	-1.278	-0.251	0.246	0.732
##	theta[268,8]	0.202	0.537	-0.887	-0.122	0.199	0.542
##	theta[269,8]	0.013	0.498	-0.996	-0.305	0.021	0.328
##	theta[270,8]	0.259	0.511	-0.767	-0.072	0.260	0.589
##	theta[271,8]	-0.057	0.544	-1.168	-0.400	-0.051	0.287
##	theta[272,8]	-0.088	0.448	-0.999	-0.361	-0.083	0.199
##	theta[273,8]	0.524	0.770	-0.938	0.029	0.501	0.989
##	theta[274,8]	0.484	0.599	-0.664	0.111	0.464	0.846
##	theta[275,8]	0.354	1.025	-1.688	-0.294	0.351	0.979
##	theta[276,8]	0.130	0.465	-0.766	-0.169	0.124	0.425
##	theta[277,8]	0.370	0.662	-0.898	-0.059	0.348	0.790
##	theta[278,8]	0.358	1.006	-1.633	-0.290	0.348	0.988
	theta[279,8]	0.222	0.756	-1.258	-0.253	0.214	0.675
##	theta[280,8]	0.342	1.030	-1.702	-0.281	0.335	0.923
	theta[281,8]	0.292	0.792	-1.262	-0.221	0.281	0.784
##	theta[282,8]	0.346	0.998	-1.589	-0.294	0.340	0.982
##	theta[283,8]	-0.369	0.516	-1.430	-0.689	-0.371	-0.043
##	theta[284,8]	0.382	0.737	-1.044	-0.085	0.360	0.830
##	theta[285,8]	0.198	0.485	-0.772	-0.112	0.190	0.518
##	theta[286,8]	0.205	0.866	-1.623	-0.310	0.212	0.742
##	theta[287,8]	0.155	0.484	-0.806	-0.159	0.146	0.469
##	theta[288,8]	-0.114	0.694	-1.511	-0.550	-0.105	0.298
##	theta[289,8]	-0.230	0.505	-1.298	-0.548	-0.211	0.100
##	theta[290,8]	-0.036	0.662	-1.366	-0.454	-0.036	0.399
##	theta[291,8]	-0.354	1.140	-2.692	-1.052	-0.342	0.383
##	theta[292,8]	0.507	0.547	-0.591	0.162	0.505	0.842
##	theta[293,8]	-0.231	0.465	-1.212	-0.516	-0.225	0.074
##	theta[294,8]	-0.438	0.573	-1.566	-0.788	-0.424	-0.064

	theta[295,8]	0.212	0.799	-1.345	-0.310	0.216	0.712
	theta[296,8]	-0.282	0.858	-2.088	-0.800	-0.264	0.274
	theta[297,8]	0.017	0.735	-1.521	-0.441	0.011	0.487
	theta[298,8]	-0.384	0.501	-1.408	-0.699	-0.352	-0.065
	theta[299,8]	0.122	0.801	-1.538	-0.355	0.131	0.631
	theta[300,8]	0.462	0.571	-0.649	0.087	0.439	0.824
	theta[301,8]	0.218	0.773	-1.353	-0.276	0.228	0.700
	theta[302,8]	0.213	0.773	-1.344	-0.280	0.220	0.697
	theta[303,8]	0.008	0.515	-1.007	-0.314	-0.010	0.335
	theta[304,8]	0.576	0.644	-0.727	0.193	0.568	0.965
##	theta[305,8]	0.383	0.652	-0.868	-0.038	0.356	0.792
##	theta[306,8]	0.376	0.645	-0.895	-0.018	0.367	0.773
##	theta[307,8]	0.165	0.500	-0.843	-0.144	0.162	0.481
##	theta[308,8]	-0.223	0.477	-1.187	-0.536	-0.224	0.096
##	theta[309,8]	-0.033	0.794	-1.637	-0.536	-0.035	0.503
##	theta[310,8]	-0.432	0.530	-1.537	-0.760	-0.410	-0.085
##	theta[311,8]	0.392	0.573	-0.707	0.030	0.366	0.737
##	theta[312,8]	-0.049	0.854	-1.828	-0.558	-0.044	0.502
##	theta[313,8]	-0.041	0.546	-1.172	-0.377	-0.021	0.298
##	theta[314,8]	0.078	0.480	-0.865	-0.236	0.075	0.386
	theta[315,8]	0.129	0.606	-1.083	-0.254	0.133	0.510
	theta[316,8]	0.172	0.524	-0.888	-0.155	0.167	0.507
	theta[317,8]	-0.517	0.523	-1.626	-0.838	-0.481	-0.165
	theta[318,8]	0.296	0.565	-0.826	-0.066	0.286	0.652
	theta[319,8]	0.088	0.533	-0.965	-0.250	0.087	0.434
	theta[320,8]	-0.218	0.542	-1.324	-0.556	-0.216	0.123
	theta[321,8]	0.360	0.521	-0.678	0.040	0.342	0.686
	theta[322,8]	0.013	0.687	-1.403	-0.406	0.026	0.448
	theta[323,8]	0.256	0.787	-1.277	-0.261	0.248	0.748
	theta[324,8]	-0.124	0.548	-1.214	-0.468	-0.118	0.220
	theta[325,8]	0.217	0.750	-1.328	-0.245	0.212	0.683
	theta[326,8]	-0.467	0.522	-1.537	-0.775	-0.449	-0.129
##	theta[327,8]	-0.323	0.969	-2.325	-0.935	-0.305	0.337
##	theta[328,8]	0.079	0.473	-0.873	-0.231	0.083	0.393
	theta[329,8]	0.335	0.471	-0.582	0.028	0.313	0.625
##	theta[330,8]	0.137	0.473	-0.796	-0.161	0.131	0.438
	theta[331,8]	-0.061	0.491	-1.069	-0.363	-0.060	0.232
	theta[332,8]	0.181	0.489	-0.754	-0.141	0.172	0.481
	theta[333,8]	-0.440	0.554	-1.590	-0.780	-0.436	-0.083
	theta[334,8]	-0.361			-0.998	-0.338	
	theta[335,8]		1.005	-2.431			0.283
	•	-0.017	0.536	-1.095	-0.357	-0.012	0.327
	theta[336,8]	0.174	0.462	-0.775	-0.122	0.183	0.470
	theta[337,8]	-0.020	0.591	-1.198	-0.390	-0.030	0.363
##	theta[338,8]	-0.406	0.579	-1.613	-0.791	-0.390	-0.018
##	theta[339,8]	0.177	0.493	-0.783	-0.148	0.172	0.485
##	theta[340,8]	0.228	0.782	-1.283	-0.272	0.225	0.716
##	theta[341,8]	0.245	0.777	-1.295	-0.245	0.244	0.722
##	theta[342,8]	-0.366	1.009	-2.384	-1.021	-0.377	0.304
##	theta[343,8]	-0.026	0.795	-1.665	-0.507	-0.035	0.497
##	theta[344,8]	-0.081	0.605	-1.309	-0.440	-0.070	0.291
##	theta[345,8]	-0.025	0.791	-1.662	-0.518	-0.032	0.496
##	theta[346,8]	0.052	0.681	-1.313	-0.382	0.078	0.484
	theta[347,8]	0.327	0.554	-0.814	-0.001	0.325	0.666
##	theta[348,8]	0.541	0.512	-0.402	0.206	0.527	0.859

##	theta[349,8]	-0.092	0.504	-1.123	-0.411	-0.087	0.224
##	theta[350,8]	0.186	0.633	-1.055	-0.207	0.179	0.575
##	theta[351,8]	0.371	0.982	-1.511	-0.279	0.346	1.008
##	theta[352,8]	-0.423	0.562	-1.569	-0.778	-0.415	-0.063
##	theta[353,8]	-0.026	0.805	-1.662	-0.541	-0.029	0.497
##	theta[354,8]	0.241	0.779	-1.291	-0.261	0.238	0.733
##	theta[355,8]	0.129	0.530	-0.910	-0.208	0.118	0.460
##	theta[356,8]	0.098	0.588	-1.060	-0.276	0.095	0.467
##	theta[357,8]	0.088	0.430	-0.767	-0.179	0.088	0.354
##	theta[358,8]	0.361	1.026	-1.559	-0.308	0.343	0.995
##	theta[359,8]	0.138	0.639	-1.160	-0.269	0.130	0.546
##	theta[360,8]	0.322	0.512	-0.662	-0.001	0.308	0.631
##	theta[361,8]	0.187	0.563	-0.909	-0.167	0.172	0.530
##	theta[362,8]	0.488	0.520	-0.510	0.151	0.471	0.821
##	theta[363,8]	0.094	0.693	-1.277	-0.347	0.084	0.521
##	theta[364,8]	-0.179	0.539	-1.276	-0.525	-0.178	0.177
##	theta[365,8]	-0.418	0.557	-1.582	-0.757	-0.396	-0.064
##	theta[366,8]	0.230	0.525	-0.778	-0.107	0.227	0.559
##	theta[367,8]	-0.432	0.562	-1.553	-0.784	-0.424	-0.064
##	theta[368,8]	0.510	0.673	-0.744	0.077	0.475	0.913
##	theta[369,8]	0.520	0.769	-0.965	0.036	0.480	0.975
##	theta[370,8]	0.238	0.762	-1.265	-0.256	0.234	0.707
##	theta[371,8]	-0.016	0.520	-1.018	-0.347	-0.027	0.304
##	theta[372,8]	-0.210	0.540	-1.297	-0.551	-0.208	0.138
##	theta[373,8]	0.121	0.482	-0.853	-0.178	0.124	0.433
##	theta[374,8]	0.271	0.634	-0.977	-0.134	0.266	0.654
##	theta[375,8]	0.251	0.765	-1.278	-0.222	0.247	0.723
##	theta[376,8]	0.339	0.678	-1.021	-0.082	0.335	0.747
##	theta[377,8]	-0.201	0.526	-1.232	-0.531	-0.193	0.137
##	theta[378,8]	0.157	0.511	-0.869	-0.171	0.156	0.473
##	theta[379,8]	0.289	0.568	-0.825	-0.065	0.275	0.629
##	theta[380,8]	-0.030	0.533	-1.107	-0.370	-0.033	0.309
##	theta[381,8]	0.134	0.528	-0.901	-0.195	0.125	0.458
##	theta[382,8]	0.166	0.495	-0.802	-0.147	0.153	0.460
##	theta[383,8]	0.036	0.687	-1.355	-0.399	0.033	0.470
##	theta[384,8]	0.549	0.701	-0.777	0.087	0.527	0.966
##	theta[385,8]	0.054	0.593	-1.142	-0.317	0.055	0.421
##	theta[386,8]	0.505	0.520	-0.462	0.166	0.479	0.823
##	theta[387,8]	-0.220	0.535	-1.284	-0.570	-0.218	0.126
	theta[388,8]	0.314	0.514	-0.680	-0.021	0.307	0.633
	theta[389,8]	0.240	0.778	-1.350	-0.242	0.241	0.720
	theta[390,8]	-0.275	0.524	-1.335	-0.604	-0.272	0.052
##	theta[391,8]	0.186	0.472	-0.728	-0.128	0.174	0.478
##	theta[392,8]	-0.424	0.579	-1.637	-0.784	-0.413	-0.055
##	theta[393,8]	-0.185	0.527	-1.252	-0.514	-0.176	0.167
##	theta[394,8]	0.367	1.013	-1.616	-0.283	0.356	0.978
##	theta[395,8]	-0.026	0.793	-1.613	-0.526	-0.030	0.494
##	theta[396,8]	0.363	1.003	-1.578	-0.320	0.361	0.494
##	theta[397,8]						
		-0.035	0.787	-1.632 -0.730	-0.543	-0.027	0.488
##	theta[398,8]	0.306	0.535	-0.720	-0.033	0.295	0.638
##	theta[399,8]	-0.334	1.043	-2.461	-0.971	-0.307	0.364
	theta[400,8]	-0.234	0.667	-1.613	-0.636	-0.218	0.172
##	theta[401,8]	0.360	0.518	-0.665	0.032	0.356	0.695
##	theta[402,8]	0.463	0.519	-0.509	0.129	0.438	0.787

##	theta[403,8]	0.023	0.579	-1.169	-0.340	0.030	0.393
##	theta[404,8]	-0.390	0.499	-1.423	-0.693	-0.376	-0.068
##	theta[405,8]	0.161	0.679	-1.199	-0.272	0.182	0.606
##	theta[406,8]	-0.331	0.979	-2.422	-0.939	-0.307	0.303
##	theta[407,8]	-0.360	0.507	-1.443	-0.670	-0.349	-0.036
##	theta[408,8]	-0.315	0.975	-2.379	-0.923	-0.283	0.324
##	theta[409,8]	0.296	0.554	-0.740	-0.072	0.283	0.641
##	theta[410,8]	0.496	0.900	-1.215	-0.084	0.467	1.026
##	theta[411,8]	0.095	0.491	-0.860	-0.219	0.090	0.394
##	theta[412,8]	-0.430	0.556	-1.589	-0.780	-0.410	-0.075
##	theta[413,8]	0.373	0.984	-1.571	-0.261	0.355	0.986
##	theta[414,8]	-0.443	0.618	-1.683	-0.831	-0.422	-0.033
##	theta[415,8]	-0.045	0.851	-1.793	-0.573	-0.025	0.496
##		-0.503	0.513	-1.608	-0.817	-0.484	-0.165
	theta[416,8]						
##	theta[417,8]	-0.296	0.478	-1.284	-0.599	-0.280	0.013
##	theta[418,8]	-0.285	0.578	-1.475	-0.657	-0.266	0.096
##	theta[419,8]	0.298	0.535	-0.732	-0.040	0.290	0.635
##	theta[420,8]	-0.156	0.478	-1.112	-0.453	-0.151	0.145
##	theta[421,8]	-0.039	0.845	-1.774	-0.565	-0.036	0.521
##	theta[422,8]	-0.038	0.503	-1.060	-0.351	-0.035	0.281
##	theta[423,8]	-0.027	0.864	-1.819	-0.563	-0.027	0.553
##	theta[424,8]	-0.230	0.547	-1.348	-0.574	-0.223	0.117
##	theta[425,8]	-0.215	0.539	-1.304	-0.557	-0.206	0.141
##	theta[426,8]	-0.325	0.983	-2.408	-0.921	-0.287	0.304
##	theta[427,8]	0.230	0.509	-0.797	-0.097	0.227	0.540
##	theta[428,8]	0.177	0.701	-1.236	-0.277	0.158	0.615
##	theta[429,8]	0.228	0.696	-1.158	-0.215	0.222	0.651
##	theta[430,8]	-0.444	0.521	-1.498	-0.777	-0.426	-0.108
##	theta[431,8]	0.346	1.005	-1.665	-0.307	0.345	0.960
##	theta[432,8]	-0.005	0.611	-1.223	-0.394	-0.010	0.384
##	theta[433,8]	-0.005	0.615	-1.220	-0.395	0.007	0.376
##	theta[434,8]	0.221	0.721	-1.194	-0.248	0.231	0.677
##	theta[435,8]	-0.324	0.929	-2.304	-0.895	-0.305	0.317
##	theta[436,8]	-0.319	0.948	-2.320	-0.903	-0.300	0.312
##	theta[437,8]	-0.415	0.545	-1.502	-0.757	-0.416	-0.057
##	theta[438,8]	0.158	0.505	-0.832	-0.167	0.154	0.468
##	theta[439,8]	-0.053	0.576	-1.211	-0.418	-0.060	0.302
##	theta[440,8]	-0.081	0.643	-1.315	-0.468	-0.088	0.304
	theta[441,8]	-0.015	0.786	-1.618	-0.498	-0.001	0.490
	theta[442,8]	-0.323	0.980	-2.417	-0.917	-0.293	0.300
	theta[443,8]	-0.195	0.544	-1.346	-0.536	-0.178	0.156
	theta[444,8]	0.350	0.629	-0.876	-0.056	0.318	0.733
##	theta[445,8]	0.092	0.754	-1.383	-0.385	0.097	0.567
##	theta[446,8]	-0.319	0.963	-2.194	-0.940	-0.322	0.311
##	theta[447,8]	0.284	0.599	-0.867	-0.117	0.266	0.662
##	theta[448,8]	0.143	0.549	-0.923	-0.201	0.135	0.491
##	theta[449,8]	0.253	0.517	-0.742	-0.083	0.238	0.563
##	theta[450,8]	-0.519	0.512	-1.615	-0.828	-0.494	-0.182
##	theta[451,8]	-0.406	0.599	-1.627	-0.787	-0.396	-0.020
##	theta[452,8]	-0.333	0.507	-1.365	-0.654	-0.333	-0.006
##	theta[453,8]	0.106	0.617	-1.136	-0.289	0.100	0.496
##	theta[454,8]	-0.310	0.965	-2.365	-0.896	-0.293	0.315
##	theta[455,8]	-0.101	0.486	-1.096	-0.396	-0.095	0.219
	theta[456,8]	0.101	0.430	-0.986	-0.143	0.093	0.687
##	one og [400,0]	0.210	0.040	0.300	0.143	0.202	0.007

##	theta[457,8]	0.078	0.439	-0.797	-0.201	0.079	0.354
##	theta[458,8]	0.044	0.672	-1.300	-0.375	0.043	0.457
##	theta[459,8]	0.315	0.590	-0.804	-0.078	0.302	0.662
##	theta[460,8]	0.404	0.539	-0.608	0.055	0.389	0.726
##	theta[461,8]	0.328	0.617	-0.894	-0.043	0.317	0.700
##	theta[462,8]	-0.196	0.549	-1.301	-0.550	-0.189	0.162
##	theta[463,8]	-0.045	0.459	-0.944	-0.342	-0.054	0.247
##	theta[464,8]	-0.069	0.524	-1.158	-0.387	-0.058	0.260
##	theta[465,8]	0.297	0.546	-0.765	-0.040	0.282	0.627
##	theta[466,8]	0.168	0.653	-1.132	-0.249	0.170	0.582
##	theta[467,8]	-0.127	0.496	-1.123	-0.435	-0.123	0.178
##	theta[468,8]	0.243	0.785	-1.281	-0.262	0.234	0.739
##	theta[469,8]	0.356	0.509	-0.615	0.023	0.347	0.671
##	theta[470,8]	0.306	0.567	-0.799	-0.058	0.293	0.652
##	theta[470,8]	0.350	0.622	-0.860	-0.037	0.233	0.727
##	theta[472,8]	0.224	0.711	-1.154	-0.224	0.216	0.652
##	theta[473,8]	0.209	0.661	-1.114	-0.223	0.209	0.631
##	theta[474,8]	0.210	0.666	-1.134	-0.199	0.209	0.624
##	theta[475,8]	-0.333	1.023	-2.376	-0.982	-0.345	0.357
##	theta[476,8]	0.294	0.798	-1.314	-0.207	0.279	0.787
##	theta[477,8]	0.403	0.525	-0.584	0.063	0.382	0.732
##	theta[478,8]	0.013	0.593	-1.097	-0.360	-0.006	0.358
##	theta[479,8]	0.167	0.489	-0.790	-0.140	0.169	0.474
##	theta[480,8]	0.357	0.759	-1.120	-0.126	0.354	0.826
##	theta[481,8]	0.033	0.633	-1.258	-0.363	0.029	0.426
##	theta[482,8]	-0.407	0.571	-1.576	-0.776	-0.394	-0.046
##	theta[483,8]	0.078	0.493	-0.884	-0.245	0.074	0.396
##	theta[484,8]	0.316	0.531	-0.717	-0.036	0.305	0.650
##	theta[485,8]	0.302	0.531	-0.727	-0.034	0.289	0.636
##	theta[486,8]	-0.565	0.499	-1.568	-0.876	-0.552	-0.244
##	theta[487,8]	-0.106	0.577	-1.302	-0.461	-0.096	0.261
##	theta[488,8]	-0.223	0.537	-1.327	-0.560	-0.214	0.117
##	theta[489,8]	0.375	0.667	-0.944	-0.051	0.374	0.780
##	theta[490,8]	0.089	0.479	-0.854	-0.220	0.083	0.397
##	theta[491,8]	-0.324	0.972	-2.375	-0.929	-0.303	0.311
##	theta[492,8]	0.549	0.577	-0.532	0.179	0.516	0.891
##	theta[493,8]	-0.361	0.996	-2.346	-0.969	-0.343	0.317
##	theta[494,8]	0.277	0.545	-0.817	-0.071	0.263	0.633
##	theta[495,8]	-0.270	0.873	-2.125	-0.827	-0.247	0.296
	theta[496,8]	0.338	0.530	-0.669	-0.001	0.319	0.661
	theta[497,8]	-0.348	0.927	-2.231	-0.923	-0.335	0.258
	theta[498,8]	-0.012	0.959	-2.072	-0.594	0.002	0.596
##	theta[499,8]	-0.346	1.028	-2.515	-0.997	-0.306	0.316
##	theta[500,8]	-0.402	0.610	-1.669	-0.765	-0.387	-0.011
##	theta[501,8]	0.350	0.552	-0.723	-0.002	0.339	0.673
##	theta[502,8]	-0.485	0.524	-1.611	-0.807	-0.455	-0.135
##	theta[502,8]	-0.016	0.921	-1.941	-0.605	-0.012	0.133
##	theta[504,8]	-0.194	0.523	-1.265	-0.528	-0.186	0.155
##	theta[505,8]	-0.194	0.828	-2.186	-0.526	-0.100	0.155
##	theta[506,8]	-0.348	1.022	-2.364	-1.013	-0.355	0.313
##	theta[507,8]	-0.447	0.598	-1.686	-0.820	-0.423	-0.056
##	theta[508,8]	-0.428	0.568	-1.581	-0.789	-0.412	-0.061
##	theta[509,8]	-0.343	1.051	-2.524	-0.994	-0.318	0.351
##	theta[510,8]	-0.124	0.733	-1.685	-0.576	-0.099	0.352

	theta[511,8]	-0.213	0.529	-1.296	-0.540	-0.214	0.124
##	theta[512,8]	-0.220	0.538	-1.303	-0.546	-0.225	0.113
##	theta[513,8]	0.378	0.509	-0.585	0.043	0.366	0.682
##	theta[514,8]	-0.423	0.550	-1.547	-0.761	-0.421	-0.059
##	theta[515,8]	-0.409	0.565	-1.592	-0.763	-0.397	-0.038
##	theta[516,8]	-0.198	0.513	-1.232	-0.521	-0.191	0.119
##	theta[517,8]	0.019	0.737	-1.519	-0.447	0.023	0.482
##	theta[518,8]	-0.001	0.483	-0.980	-0.306	-0.006	0.309
##	theta[519,8]	-0.358	1.048	-2.523	-1.027	-0.341	0.326
##	theta[520,8]	0.373	0.544	-0.677	0.027	0.357	0.722
##	theta[521,8]	-0.551	0.733	-2.095	-1.014	-0.513	-0.071
##	theta[522,8]	-0.271	0.891	-2.077	-0.842	-0.266	0.324
##	theta[523,8]	-0.312	0.834	-1.959	-0.852	-0.306	0.246
##	theta[524,8]	-0.324	0.983	-2.320	-0.924	-0.302	0.312
##	theta[525,8]	-0.424	0.869	-2.297	-0.968	-0.390	0.152
##	theta[526,8]	-0.260	0.904	-2.122	-0.832	-0.251	0.337
##	theta[527,8]	0.113	0.484	-0.841	-0.196	0.104	0.413
##	theta[528,8]	0.111	0.496	-0.903	-0.208	0.115	0.425
##	theta[529,8]	-0.317	0.825	-2.146	-0.824	-0.301	0.233
##	theta[530,8]	-0.134	0.845	-1.839	-0.683	-0.124	0.404
##	theta[531,8]	-0.403	0.828	-2.189	-0.915	-0.366	0.145
##	theta[532,8]	-0.358	1.123	-2.631	-1.081	-0.361	0.405
##	theta[533,8]	0.395	0.585	-0.751	0.021	0.390	0.752
##	theta[534,8]	-0.367	1.136	-2.827	-1.053	-0.366	0.391
##	theta[535,8]	0.248	0.548	-0.804	-0.102	0.240	0.579
##	theta[536,8]	0.331	0.491	-0.609	0.012	0.319	0.633
##	theta.cov[1,1]	4.217	2.228	1.123	2.760	3.840	5.136
##	theta.cov[2,1]	0.793	0.372	0.215	0.542	0.744	0.984
##	theta.cov[3,1]	0.208	1.137	-1.901	-0.612	0.178	1.046
##	theta.cov[4,1]	3.139	1.136	1.072	2.322	3.088	3.866
##	theta.cov[5,1]	2.108	0.917	0.625	1.528	1.926	2.541
##	theta.cov[6,1]	-0.398	0.673	-1.810	-0.856	-0.336	0.100
##	theta.cov[7,1]	1.637	0.759	0.481	1.102	1.500	2.059
##	theta.cov[8,1]	0.415	0.858	-1.358	-0.158	0.426	0.929
##	theta.cov[1,2]	0.793	0.372	0.215	0.542	0.744	0.984
##	theta.cov[2,2]	0.467	0.241	0.177	0.294	0.409	0.572
	theta.cov[3,2]	-0.262	0.456	-1.304	-0.528	-0.144	0.045
##	theta. $cov[4,2]$	0.745	0.298	0.301	0.523	0.694	0.922
	theta.cov[5,2]	0.399	0.275	-0.036	0.229	0.358	0.542
	theta.cov[6,2]	-0.118	0.234	-0.685	-0.239	-0.099	0.030
	theta.cov[7,2]	0.534	0.228	0.244	0.373	0.481	0.639
	theta.cov[8,2]	0.062	0.331	-0.567	-0.124	0.083	0.236
##	theta.cov[1,3]	0.208	1.137	-1.901	-0.612	0.178	1.046
##	theta.cov[2,3]	-0.262	0.456	-1.304	-0.528	-0.144	0.045
##	theta.cov[3,3]	1.074	0.838	0.171	0.483	0.849	1.418
##	theta.cov[4,3]	0.271	1.243	-2.210	-0.493	0.234	1.037
##	theta.cov[5,3]	-0.065	0.966	-2.409	-0.524	0.144	0.582
##	theta.cov[6,3]	-0.069	0.394	-1.011	-0.229	-0.025	0.125
##	theta.cov[7,3]	-0.066	0.740	-1.743	-0.535	-0.011	0.430
##	theta.cov[8,3]	0.182	0.458	-0.823	-0.041	0.131	0.377
##	theta.cov[1,4]	3.139	1.136	1.072	2.322	3.088	3.866
	theta.cov[2,4]	0.745	0.298	0.301	0.523	0.694	0.922
	theta.cov[3,4]	0.271	1.243	-2.210	-0.493	0.234	1.037
##	theta.cov[4,4]	4.272	1.615	2.045	3.129	3.991	5.014

```
## theta.cov[5,4]
                                0.718
                                          0.308
                                                              1.513
                       1.600
                                                    1.143
                                                                        1.982
   theta.cov[6,4]
                                         -2.076
                                                   -0.668
                      -0.169
                                0.861
                                                             -0.124
                                                                        0.382
                                          0.895
                                                                        1.883
   theta.cov[7,4]
                       1.585
                                0.501
                                                    1.200
                                                              1.483
   theta.cov[8,4]
                       0.710
                                0.778
                                         -0.680
                                                    0.106
                                                              0.735
                                                                        1.250
##
   theta.cov[1,5]
                       2.108
                                0.917
                                          0.625
                                                    1.528
                                                              1.926
                                                                        2.541
##
   theta.cov[2,5]
                       0.399
                                0.275
                                         -0.036
                                                    0.229
                                                              0.358
                                                                        0.542
   theta.cov[3,5]
                      -0.065
                                0.966
                                         -2.409
                                                   -0.524
                                                              0.144
                                                                        0.582
   theta.cov[4,5]
                       1.600
                                0.718
                                          0.308
                                                    1.143
                                                              1.513
                                                                        1.982
   theta.cov[5,5]
                       2.202
                                1.084
                                          0.789
                                                    1.471
                                                              1.931
                                                                        2.609
   theta.cov[6,5]
                      -0.203
                                0.445
                                         -1.122
                                                   -0.483
                                                             -0.179
                                                                        0.074
   theta.cov[7,5]
                       0.990
                                0.488
                                          0.194
                                                    0.667
                                                              0.925
                                                                        1.250
   theta.cov[8,5]
                       0.059
                                0.604
                                         -1.368
                                                   -0.264
                                                              0.099
                                                                        0.446
                                                   -0.856
##
   theta.cov[1,6]
                      -0.398
                                0.673
                                         -1.810
                                                             -0.336
                                                                        0.100
   theta.cov[2,6]
                      -0.118
                                0.234
                                         -0.685
                                                   -0.239
                                                             -0.099
                                                                        0.030
   theta.cov[3,6]
                      -0.069
                                0.394
                                         -1.011
                                                   -0.229
                                                             -0.025
                                                                        0.125
   theta.cov[4,6]
                      -0.169
                                0.861
                                         -2.076
                                                   -0.668
                                                             -0.124
                                                                        0.382
##
   theta.cov[5,6]
                      -0.203
                                                   -0.483
                                0.445
                                         -1.122
                                                             -0.179
                                                                        0.074
   theta.cov[6,6]
                       0.439
                                0.319
                                          0.109
                                                    0.215
                                                              0.344
                                                                        0.552
   theta.cov[7,6]
                      -0.215
                                0.429
                                         -1.240
                                                   -0.438
                                                             -0.176
                                                                        0.078
                                0.221
##
   theta.cov[8,6]
                      -0.043
                                         -0.538
                                                   -0.158
                                                             -0.018
                                                                        0.080
##
   theta.cov[1,7]
                       1.637
                                0.759
                                          0.481
                                                    1.102
                                                              1.500
                                                                        2.059
   theta.cov[2,7]
                       0.534
                                0.228
                                          0.244
                                                    0.373
                                                              0.481
                                                                        0.639
   theta.cov[3,7]
                      -0.066
                                0.740
                                         -1.743
                                                   -0.535
                                                             -0.011
                                                                        0.430
##
##
   theta.cov[4,7]
                       1.585
                                0.501
                                          0.895
                                                    1.200
                                                              1.483
                                                                        1.883
   theta.cov[5,7]
                       0.990
                                0.488
                                          0.194
                                                    0.667
                                                              0.925
                                                                        1.250
   theta.cov[6,7]
                      -0.215
                                0.429
                                         -1.240
                                                   -0.438
                                                             -0.176
                                                                        0.078
                       1.098
                                                    0.753
   theta.cov[7,7]
                                0.481
                                          0.463
                                                              0.981
                                                                        1.343
##
   theta.cov[8,7]
                       0.170
                                0.493
                                         -0.785
                                                              0.206
                                                                        0.497
                                                   -0.161
   theta.cov[1,8]
                       0.415
                                0.858
                                         -1.358
                                                   -0.158
                                                              0.426
                                                                        0.929
   theta.cov[2,8]
                       0.062
                                0.331
                                         -0.567
                                                              0.083
                                                                        0.236
                                                   -0.124
   theta.cov[3,8]
                       0.182
                                0.458
                                         -0.823
                                                   -0.041
                                                              0.131
                                                                        0.377
##
   theta.cov[4,8]
                       0.710
                                0.778
                                         -0.680
                                                    0.106
                                                              0.735
                                                                        1.250
   theta.cov[5,8]
                       0.059
                                0.604
                                         -1.368
                                                   -0.264
                                                              0.099
                                                                        0.446
   theta.cov[6,8]
                      -0.043
                                0.221
                                         -0.538
                                                   -0.158
                                                             -0.018
                                                                        0.080
                       0.170
                                0.493
                                         -0.785
                                                   -0.161
                                                              0.206
                                                                        0.497
   theta.cov[7,8]
##
   theta.cov[8,8]
                       0.587
                                0.416
                                          0.163
                                                    0.306
                                                              0.456
                                                                        0.740
##
   deviance
                    6032.232
                               95.009 5840.893 5967.747 6034.776 6097.309
##
                       97.5%
                               Rhat n.eff
## lambda[7,1]
                       1.000 1.000
                                         1
##
   lambda[15,1]
                       2.204 1.146
                                        24
   lambda[19,1]
                       2.085 1.031
                                        93
   lambda[4,2]
                       1.000 1.000
                                         1
##
   lambda [5,2]
                       2.207 1.083
                                        36
   lambda [7,2]
                                       240
##
                       0.901 1.013
   lambda[9,2]
                       2.275 1.043
                                        66
   lambda[10,2]
                       2.347 1.099
                                       31
##
   lambda[11,2]
                       1.339 1.017
                                       170
   lambda[13,2]
                       2.436 1.014
                                       210
   lambda[14,2]
                       2.119 1.007
                                       430
   lambda[16,2]
                       2.408 1.011
                                       310
##
   lambda[17,2]
                       1.724 1.023
                                       130
   lambda[18,2]
                       1.130 1.008
                                       380
## lambda[19,2]
                                       530
                       1.486 1.005
## lambda[20,2]
                       1.663 1.017
                                       160
```

```
## lambda[4,3]
                       1.000 1.000
                                        1
                                      330
## lambda[19,3]
                       1.012 1.008
  lambda [20,3]
                       0.614 1.020
                                      150
  lambda[1,4]
                       1.000 1.000
                                        1
##
   lambda[2,4]
                       3.186 1.014
                                      190
  lambda[3,4]
##
                       2.871 1.008
                                      390
## lambda[5,4]
                       0.690 1.164
                                       20
  lambda[13,4]
                       0.830 1.027
                                      130
##
   lambda [4,5]
                       1.000 1.000
                                        1
   lambda[10,5]
                       2.077 1.053
                                       55
   lambda[11,5]
                       2.748 1.061
                                       50
   lambda[13,5]
                       1.518 1.099
                                       31
##
   lambda[17,5]
                       2.003 1.073
                                       43
   lambda[18,5]
                       1.061 1.033
                                      120
   lambda[19,5]
                       1.462 1.037
                                       88
   lambda [20,5]
                       3.205 1.100
                                       30
##
   lambda[1,6]
                       1.000 1.000
                                        1
   lambda[18,6]
                       1.586 1.026
                                      130
  lambda[1,7]
                       1.000 1.000
                                        1
##
   lambda[2,7]
                       2.161 1.065
                                       48
##
  lambda[3,7]
                       1.575 1.071
                                       42
  lambda[4,7]
                       1.069 1.277
                                       14
  lambda[5,7]
##
                       0.774 1.083
                                       37
  lambda[6,7]
                       2.722 1.040
##
                                       70
##
  lambda[7,7]
                       1.409 1.341
                                       12
   lambda[8,7]
                       1.103 1.067
                                       43
   lambda[10,7]
                                       50
                       0.831 1.058
                                       37
##
   lambda[11,7]
                       1.500 1.081
   lambda[12,7]
                                      200
                       2.515 1.033
   lambda[13,7]
                       0.583 1.060
                                       49
   lambda [14,7]
                       2.314 1.016
                                      170
##
   lambda[15,7]
                       1.668 1.336
                                       12
   lambda[16,7]
                       1.879 1.018
                                      150
   lambda[17,7]
                       1.531 1.082
                                       36
   lambda[18,7]
                       1.870 1.070
                                       45
  lambda[19,7]
##
                       1.097 1.095
                                       31
## lambda[20,7]
                       1.767 1.087
                                       34
## lambda[5,8]
                       2.320 1.154
                                       22
## lambda[10,8]
                       1.000 1.000
                                        1
## lambda[12,8]
                       0.263 1.073
                                       40
## mu[1]
                       0.399 1.001
                                     4000
## mu[2]
                       1.279 1.003
                                     1100
## mu[3]
                       0.316 1.003
                                     1100
## mu[4]
                       0.320 1.002
                                     1600
## mu[5]
                       0.501 1.002
                                     2400
## mu[6]
                       2.081 1.004
                                      720
## mu[7]
                     -0.431 1.023
                                      120
## mu[8]
                       0.983 1.005
                                      530
## mu[9]
                       0.646 1.001
                                     4000
## mu[10]
                     -0.551 1.003
                                      940
## mu[11]
                       0.039 1.004
                                      710
## mu[12]
                       1.410 1.018
                                      140
## mu[13]
                     -1.000 1.004
                                      750
## mu[14]
                       1.598 1.002
                                     1700
```

##	mu[15]	-0.147		300
##	mu[16]	1.345	1.002	1700
##	mu[17]	-0.272		1200
##	mu[18]	-0.019		1300
##	mu[19]	-1.273		880
##	mu[20]	-0.722		440
##	theta[1,1]	2.710		920
##	theta[2,1]	4.413		31
##	theta[3,1]	2.172		900
##	theta[4,1]	1.181		160
##	theta[5,1]	0.310		35
##	theta[6,1]	0.014		51
##	theta[7,1]	-0.189		26
##	theta[8,1]	0.263		23
##	theta[9,1]	-0.014		30
##	theta[10,1]	0.101		29
##	theta[11,1]	2.761		29
## ##	theta[12,1]	1.786 0.519		460
##	theta[13,1]			86
##	theta[14,1] theta[15,1]	0.274 -0.015		32 38
##	theta[16,1]	0.340		50
##	theta[17,1]	0.602		47
##	theta[18,1]	0.002		34
##	theta[19,1]	0.082		43
##	theta[20,1]	-0.205		23
##	theta[21,1]	2.638		22
##	theta[22,1]	1.169		180
##	theta[23,1]	6.539		22
##	theta[24,1]	0.591		140
##	theta[25,1]	1.019		1600
##	theta[26,1]	-0.279		27
##	theta[27,1]	0.106		39
##	theta[28,1]	-0.333		22
##	theta[29,1]	0.020		46
##	theta[30,1]	6.610		23
##	theta[31,1]	3.002		44
##	theta[32,1]	6.316	1.160	21
##	theta[33,1]	4.471	1.061	49
##	theta[34,1]	2.961	1.053	59
##	theta[35,1]	2.742	1.073	41
##	theta[36,1]	1.821	1.009	440
##	theta[37,1]	1.294	1.027	110
##	theta[38,1]	2.400	1.010	330
##	theta[39,1]	4.290	1.096	35
##	theta[40,1]	0.129	1.065	47
##	theta[41,1]	-0.304	1.135	25
##	theta[42,1]	6.544	1.171	20
##	theta[43,1]	3.485	1.171	21
##	theta[44,1]	-0.007	1.093	34
##	theta[45,1]	3.869	1.070	44
##	theta[46,1]	2.187	1.010	310
##	theta[47,1]	0.031	1.071	44
##	theta[48,1]	0.389	1.038	80

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##	theta[49,1]	-0.027 1.124	27
##	theta[50,1]	2.893 1.025	120
##	theta[51,1]	-0.106 1.135	24
##	theta[52,1]	0.536 1.036	86
##	theta[53,1]	1.234 1.055	52
##	theta[54,1]	4.032 1.115	29
##	theta[55,1]	0.638 1.003	4000
##	theta[56,1]	6.564 1.177	20
##	theta[57,1]	4.856 1.151	22
##	theta[58,1]	-0.197 1.145	23
##	theta[59,1]	0.145 1.051	62
##	theta[60,1]	2.415 1.055	52
##	theta[61,1]	-0.034 1.084	36
##	theta[62,1]	-0.009 1.139	24
##			34
	theta[63,1]		
##	theta[64,1]	3.078 1.137	24
##	theta[65,1]	1.858 1.023	130
##	theta[66,1]	0.568 1.032	90
##	theta[67,1]	3.487 1.091	36
##	theta[68,1]	-0.258 1.149	24
##	theta[69,1]	-0.327 1.207	18
##	theta[70,1]	1.690 1.021	130
##	theta[71,1]	0.163 1.060	49
##	theta[72,1]	0.104 1.083	39
##	theta[73,1]	-0.248 1.156	21
##	theta[74,1]	2.113 1.071	42
##	theta[75,1]	0.105 1.065	47
##	theta[76,1]	-0.357 1.169	20
##	theta[77,1]	0.428 1.024	130
##	theta[78,1]	1.236 1.038	76
##	theta[79,1]	6.454 1.191	19
##			150
	theta[80,1]		
##	theta[81,1]	0.325 1.087	37
##	theta[82,1]	3.476 1.076	40
##	theta[83,1]	-0.288 1.162	21
##	theta[84,1]	0.539 1.021	160
##	theta[85,1]	1.446 1.005	850
##	theta[86,1]	2.179 1.025	120
##	theta[87,1]	0.989 1.006	1600
##	theta[88,1]	3.491 1.034	88
##	theta[89,1]	6.494 1.132	25
##	theta[90,1]	2.753 1.136	24
##	theta[91,1]	3.309 1.057	51
##	theta[92,1]	-0.076 1.090	36
##	theta[93,1]	3.216 1.149	23
##	theta[94,1]	4.907 1.114	28
##	theta[95,1]	6.542 1.177	20
##	theta[96,1]	4.355 1.099	34
##	theta[97,1]	0.568 1.005	860
##			
	theta[98,1]	-0.092 1.083	37
##	theta[99,1]	4.269 1.094	32
##	theta[100,1]	0.301 1.111	30
##	theta[101,1]	0.243 1.064	48
##	theta[102,1]	5.418 1.180	20

```
## theta[103,1]
                      0.125 1.046
                                       66
## theta[104,1]
                      4.653 1.106
                                      32
## theta[105,1]
                      2.388 1.023
                                      120
## theta[106,1]
                      0.608 1.006
                                      680
## theta[107,1]
                      0.768 1.050
                                      64
## theta[108,1]
                      6.560 1.163
                                      21
## theta[109,1]
                      1.770 1.042
                                       68
## theta[110,1]
                      1.701 1.007
                                      380
##
  theta[111,1]
                     -0.029 1.067
                                       46
  theta[112,1]
                     -0.322 1.184
                                       20
  theta[113,1]
                      1.977 1.012
                                      300
                                      360
  theta[114,1]
                      0.598 1.012
   theta[115,1]
                      2.039 1.006
                                      500
##
                      4.613 1.105
   theta[116,1]
                                      32
  theta[117,1]
                     -0.325 1.165
                                       21
   theta[118,1]
                      0.547 1.012
                                      330
                                      100
##
  theta[119,1]
                      2.843 1.029
  theta[120,1]
                     -0.403 1.158
                                      22
                                      26
## theta[121,1]
                      0.408 1.128
## theta[122,1]
                      0.104 1.059
                                      52
## theta[123,1]
                     -0.017 1.070
                                      45
## theta[124,1]
                      6.501 1.164
                                       21
## theta[125,1]
                      1.685 1.025
                                      120
## theta[126,1]
                      2.552 1.057
                                      52
## theta[127,1]
                      3.361 1.135
                                       24
  theta[128,1]
                      3.661 1.068
                                      45
  theta[129,1]
                                      140
                      0.641 1.023
##
   theta[130,1]
                      2.451 1.060
                                      49
   theta[131,1]
                      0.239 1.052
                                       60
  theta[132,1]
                      1.009 1.014
                                      240
   theta[133,1]
                      1.855 1.017
                                      170
   theta[134,1]
                     -0.217 1.154
                                       23
   theta[135,1]
                      0.015 1.140
                                       24
                                      28
  theta[136,1]
                      4.818 1.118
  theta[137,1]
                      1.532 1.007
                                      570
## theta[138,1]
                      4.866 1.172
                                      21
## theta[139,1]
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                                       24
## theta[140,1]
                                       20
                      4.859 1.176
## theta[141,1]
                      2.350 1.023
                                      140
## theta[142,1]
                      3.737 1.079
                                      39
## theta[143,1]
                     -0.005 1.075
                                      41
## theta[144,1]
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                                       43
##
  theta[145,1]
                      0.314 1.052
                                       56
   theta[146,1]
                      2.447 1.042
                                      71
## theta[147,1]
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                                       26
## theta[148,1]
                     -0.342 1.153
                                       22
##
  theta[149,1]
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                                      120
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                      6.671 1.146
                                       23
  theta[151,1]
                      4.081 1.082
                                       38
  theta[152,1]
                      3.994 1.102
                                      31
                                       27
##
   theta[153,1]
                      3.461 1.120
## theta[154,1]
                      4.101 1.092
                                      34
## theta[155,1]
                      3.511 1.029
                                      100
## theta[156,1]
                      4.506 1.144
                                       23
```

```
## theta[157,1]
                      3.606 1.066
                                      49
## theta[158,1]
                      0.653 1.030
                                      110
## theta[159,1]
                      3.064 1.034
                                      83
## theta[160,1]
                      3.359 1.152
                                      23
## theta[161,1]
                      2.177 1.066
                                      46
## theta[162,1]
                      3.999 1.052
                                       56
## theta[163,1]
                      4.818 1.137
                                       25
## theta[164,1]
                      4.868 1.154
                                       23
## theta[165,1]
                     -0.362 1.181
                                       19
## theta[166,1]
                     -0.011 1.133
                                       26
## theta[167,1]
                     -0.243 1.135
                                       25
                                       24
## theta[168,1]
                      6.654 1.147
  theta[169,1]
                      4.182 1.036
                                      78
##
                     -0.406 1.160
   theta[170,1]
                                       22
## theta[171,1]
                      0.429 1.048
                                       63
## theta[172,1]
                      1.339 1.031
                                       99
## theta[173,1]
                      6.368 1.190
                                       19
## theta[174,1]
                      1.884 1.008
                                      930
## theta[175,1]
                      0.399 1.055
                                      55
## theta[176,1]
                      0.577 1.012
                                      330
## theta[177,1]
                      1.034 1.009
                                      620
## theta[178,1]
                      0.595 1.049
                                      58
## theta[179,1]
                      1.210 1.015
                                      190
## theta[180,1]
                      3.845 1.130
                                       25
## theta[181,1]
                      0.175 1.148
                                       23
## theta[182,1]
                      1.186 1.041
                                       68
## theta[183,1]
                      1.527 1.017
                                      160
## theta[184,1]
                      5.325 1.181
                                      19
   theta[185,1]
                      3.302 1.122
                                       26
## theta[186,1]
                      4.427 1.152
                                       23
## theta[187,1]
                      0.343 1.061
                                       50
##
  theta[188,1]
                      0.269 1.048
                                       66
## theta[189,1]
                      6.772 1.166
                                       21
## theta[190,1]
                      6.853 1.157
                                       22
## theta[191,1]
                      4.075 1.056
                                       53
## theta[192,1]
                      4.690 1.161
                                       21
## theta[193,1]
                      4.698 1.136
                                       25
## theta[194,1]
                      0.435 1.025
                                      110
## theta[195,1]
                      0.065 1.080
                                      39
## theta[196,1]
                      4.856 1.152
                                       23
## theta[197,1]
                      2.978 1.174
                                       20
## theta[198,1]
                      6.565 1.186
                                       19
## theta[199,1]
                      5.719 1.155
                                       23
  theta[200,1]
                      1.188 1.047
                                       62
## theta[201,1]
                      6.348 1.154
                                       22
## theta[202,1]
                      4.069 1.091
                                       37
## theta[203,1]
                      3.721 1.092
                                       34
  theta[204,1]
                      4.176 1.121
                                       27
## theta[205,1]
                      0.560 1.006
                                      730
## theta[206,1]
                      1.583 1.021
                                      140
##
  theta[207,1]
                      1.816 1.042
                                      67
## theta[208,1]
                      1.590 1.009
                                      360
## theta[209,1]
                      4.045 1.083
                                      38
## theta[210,1]
                      6.356 1.147
                                       22
```

```
## theta[211,1]
                      0.340 1.075
                                      43
## theta[212,1]
                                     400
                      2.202 1.008
## theta[213,1]
                      6.550 1.189
                                      20
## theta[214,1]
                      4.574 1.122
                                       28
## theta[215,1]
                      0.354 1.055
                                      53
## theta[216,1]
                      6.589 1.178
                                       19
## theta[217,1]
                     -0.177 1.168
                                       21
## theta[218,1]
                      3.851 1.125
                                       26
## theta[219,1]
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                                    1100
## theta[220,1]
                      1.526 1.005
                                    1300
## theta[221,1]
                      1.943 1.020
                                     150
## theta[222,1]
                      2.805 1.127
                                       26
##
  theta[223,1]
                      6.785 1.165
                                       21
                     -0.253 1.156
   theta[224,1]
                                       22
## theta[225,1]
                      2.270 1.168
                                       20
## theta[226,1]
                      0.395 1.056
                                       60
## theta[227,1]
                     -0.377 1.148
                                       23
## theta[228,1]
                      0.132 1.080
                                       40
## theta[229,1]
                      4.485 1.123
                                       27
## theta[230,1]
                      1.541 1.031
                                      87
## theta[231,1]
                     -0.282 1.148
                                       22
## theta[232,1]
                      1.646 1.062
                                       48
## theta[233,1]
                      0.132 1.031
                                       91
## theta[234,1]
                      3.771 1.076
                                       40
## theta[235,1]
                      0.400 1.047
                                       63
## theta[236,1]
                      1.531 1.019
                                     180
## theta[237,1]
                      2.227 1.007
                                     440
## theta[238,1]
                      4.196 1.121
                                      27
## theta[239,1]
                      0.672 1.045
                                       68
## theta[240,1]
                      0.354 1.032
                                      91
## theta[241,1]
                      2.010 1.046
                                       69
## theta[242,1]
                      1.641 1.054
                                      54
## theta[243,1]
                      1.205 1.032
                                      87
## theta[244,1]
                      0.080 1.031
                                       99
## theta[245,1]
                      5.836 1.125
                                       26
## theta[246,1]
                     -0.250 1.171
                                       21
## theta[247,1]
                      2.515 1.095
                                       32
## theta[248,1]
                      3.143 1.122
                                       27
## theta[249,1]
                     -0.112 1.128
                                       26
## theta[250,1]
                      0.002 1.055
                                       54
## theta[251,1]
                      0.234 1.135
                                       25
## theta[252,1]
                      2.337 1.038
                                      79
## theta[253,1]
                      1.376 1.143
                                       23
  theta[254,1]
                      3.844 1.070
                                       43
## theta[255,1]
                      0.245 1.050
                                       60
## theta[256,1]
                      2.165 1.084
                                       36
## theta[257,1]
                      6.668 1.151
                                       23
  theta[258,1]
                      4.343 1.055
                                       53
## theta[259,1]
                      0.974 1.005
                                    1000
## theta[260,1]
                      2.337 1.090
                                      35
                                      37
## theta[261,1]
                      0.011 1.088
## theta[262,1]
                      3.368 1.035
                                      84
## theta[263,1]
                      0.232 1.023
                                     120
## theta[264,1]
                     -0.038 1.122
                                       27
```

```
## theta[265,1]
                      0.304 1.070
                                       43
                                       22
## theta[266,1]
                      3.094 1.156
## theta[267,1]
                      4.966 1.181
                                      19
## theta[268,1]
                      0.839 1.013
                                      250
## theta[269,1]
                      1.743 1.043
                                      70
## theta[270,1]
                      3.687 1.081
                                      38
## theta[271,1]
                      0.135 1.052
                                       59
## theta[272,1]
                      0.842 1.005
                                    1100
  theta[273,1]
                      4.812 1.163
                                       21
  theta[274,1]
                      0.776 1.051
                                       60
## theta[275,1]
                      6.412 1.133
                                       25
                                      370
  theta[276,1]
                      1.873 1.009
   theta[277,1]
                      2.365 1.108
                                      29
##
   theta[278,1]
                      6.692 1.178
                                       21
## theta[279,1]
                      4.898 1.141
                                       24
  theta[280,1]
                      6.495 1.183
                                       20
##
  theta[281,1]
                      3.447 1.186
                                       19
## theta[282,1]
                      6.371 1.185
                                       19
## theta[283,1]
                      2.888 1.032
                                      97
## theta[284,1]
                      4.888 1.107
                                      32
## theta[285,1]
                      3.179 1.013
                                      250
## theta[286,1]
                      0.582 1.115
                                      30
## theta[287,1]
                      3.394 1.049
                                       62
## theta[288,1]
                      2.714 1.120
                                       27
## theta[289,1]
                      1.000 1.014
                                      230
## theta[290,1]
                      3.053 1.113
                                       28
## theta[291,1]
                                      21
                     -0.333 1.169
##
  theta[292,1]
                      0.594 1.019
                                      180
   theta[293,1]
                      1.907 1.005
                                    1200
  theta[294,1]
                      0.083 1.042
                                       67
## theta[295,1]
                      3.381 1.122
                                       26
##
  theta[296,1]
                      0.289 1.105
                                       31
   theta[297,1]
                      0.448 1.146
                                       23
## theta[298,1]
                      2.683 1.010
                                      320
  theta[299,1]
                      0.645 1.090
                                      34
## theta[300,1]
                      3.996 1.082
                                      38
## theta[301,1]
                      4.744 1.165
                                       21
## theta[302,1]
                      3.051 1.195
                                       18
## theta[303,1]
                      1.798 1.060
                                      48
## theta[304,1]
                                      200
                      1.366 1.016
## theta[305,1]
                      4.636 1.100
                                      35
## theta[306,1]
                      1.993 1.038
                                      77
  theta[307,1]
##
                      0.349 1.031
                                      97
   theta[308,1]
                                      120
                      0.283 1.025
## theta[309,1]
                      0.004 1.093
                                      33
## theta[310,1]
                      0.184 1.034
                                       91
##
  theta[311,1]
                      2.560 1.068
                                      48
   theta[312,1]
                     -0.005 1.143
                                       24
  theta[313,1]
                      2.032 1.057
                                      51
  theta[314,1]
                      0.404 1.027
                                      110
##
  theta[315,1]
                      3.792 1.120
                                      27
## theta[316,1]
                      0.546 1.017
                                      180
## theta[317,1]
                      0.390 1.016
                                      190
## theta[318,1]
                      3.815 1.080
                                      38
```

##	theta[319,1]	3.672		46
##	theta[320,1]	0.147	1.032	93
##	theta[321,1]	0.576	1.019	170
##	theta[322,1]	2.966	1.125	25
##	theta[323,1]	4.672	1.127	25
##	theta[324,1]	2.014	1.059	50
##	theta[325,1]	2.452	1.113	28
##	theta[326,1]	0.228	1.018	160
##	theta[327,1]	0.364	1.152	22
##	theta[328,1]	1.794	1.023	130
##	theta[329,1]	1.452	1.006	4000
##	theta[330,1]	0.396	1.023	140
##	theta[331,1]	0.619	1.004	1400
##	theta[332,1]	2.150	1.016	190
##	theta[333,1]	0.159	1.029	100
##	theta[334,1]	-0.245	1.135	24
##	theta[335,1]	1.852	1.073	42
##	theta[336,1]	0.828	1.007	1200
##	theta[337,1]	0.119	1.076	40
##	theta[338,1]	0.049	1.047	61
##	theta[339,1]	0.992	1.011	300
##	theta[340,1]	4.764	1.163	21
##	theta[341,1]	4.800	1.160	21
##	theta[342,1]	-0.174	1.135	25
##	theta[343,1]	0.059	1.123	26
##	theta[344,1]	3.624	1.087	36
##	theta[345,1]	-0.026	1.125	26
##	theta[346,1]	4.302	1.153	22
##	theta[347,1]	1.414	1.033	80
##	theta[348,1]	2.365	1.029	110
##	theta[349,1]	0.565	1.010	410
##	theta[350,1]	4.153	1.148	23
##	theta[351,1]	5.438	1.157	22
##	theta[352,1]	0.148	1.028	120
##	theta[353,1]	-0.035	1.131	25
##	theta[354,1]	4.809	1.147	23
##	theta[355,1]	0.655	1.005	940
##	theta[356,1]	3.894	1.112	29
##	theta[357,1]	1.135	1.009	340
##	theta[358,1]	6.461	1.147	23
##	theta[359,1]	4.250	1.111	30
##	theta[360,1]	1.571	1.059	49
##	theta[361,1]	3.628	1.059	53
##	theta[362,1]	2.467	1.040	71
##	theta[363,1]	3.339	1.154	22
##	theta[364,1]	0.126	1.057	52
##	theta[365,1]	3.364	1.112	29
##	theta[366,1]	1.914	1.039	74
##	theta[367,1]	0.041	1.034	83
##	theta[368,1]	4.425	1.120	27
##	theta[369,1]	4.791	1.131	25
##	theta[370,1]	4.783	1.151	23
##	theta[371,1]	0.316	1.033	91
##	theta[372,1]	0.215	1.030	100
σ π	J11000 [U12,1]	0.210	1.000	100

```
## theta[373,1]
                      0.604 1.011
                                      310
## theta[374,1]
                      2.164 1.076
                                      40
## theta[375,1]
                      3.278 1.182
                                       20
## theta[376,1]
                      2.259 1.093
                                      33
## theta[377,1]
                      0.181 1.029
                                      98
  theta[378,1]
##
                      0.947 1.016
                                      200
## theta[379,1]
                      1.810 1.046
                                      67
## theta[380,1]
                      0.227 1.022
                                      130
##
   theta[381,1]
                      0.580 1.005
                                      820
  theta[382,1]
                      0.654 1.006
                                    1100
  theta[383,1]
                      4.346 1.148
                                       23
  theta[384,1]
                                       22
                      3.361 1.156
   theta[385,1]
                      2.871 1.084
                                       38
##
   theta[386,1]
                      0.916 1.004
                                    3800
  theta[387,1]
                      0.191 1.029
                                      110
   theta[388,1]
                      0.724 1.010
                                    1100
##
  theta[389,1]
                      4.856 1.149
                                      23
  theta[390,1]
                      0.374 1.010
                                      480
## theta[391,1]
                      0.611 1.015
                                      210
## theta[392,1]
                     -0.021 1.054
                                      57
## theta[393,1]
                      0.143 1.044
                                      72
## theta[394,1]
                      6.267 1.138
                                       24
## theta[395,1]
                      0.024 1.103
                                      31
  theta[396,1]
##
                      6.452 1.177
                                       20
##
  theta[397,1]
                      0.015 1.137
                                       25
  theta[398,1]
                      0.852 1.005
                                      990
  theta[399,1]
                     -0.288 1.139
                                      24
##
   theta[400,1]
                      4.424 1.108
                                      31
   theta[401,1]
                                      330
                      2.099 1.011
  theta[402,1]
                      1.167 1.008
                                      530
  theta[403,1]
                      2.601 1.134
                                       25
##
   theta[404,1]
                      1.231 1.007
                                      550
   theta[405,1]
                      1.686 1.070
                                      44
  theta[406,1]
                      0.351 1.145
                                       23
   theta[407,1]
                      1.105 1.011
                                      370
## theta[408,1]
                      0.266 1.156
                                      23
## theta[409,1]
                      4.005 1.093
                                      35
## theta[410,1]
                      4.796 1.173
                                      20
## theta[411,1]
                      0.420 1.013
                                      240
## theta[412,1]
                      0.123 1.036
                                      82
## theta[413,1]
                      5.273 1.181
                                       20
## theta[414,1]
                     -0.033 1.081
                                       38
  theta[415,1]
##
                      0.014 1.169
                                       21
   theta[416,1]
                                      170
                      0.359 1.017
## theta[417,1]
                      0.395 1.027
                                      110
## theta[418,1]
                      0.380 1.051
                                       63
##
  theta[419,1]
                      0.760 1.005
                                    1800
   theta[420,1]
                      0.523 1.036
                                      83
  theta[421,1]
                     -0.028 1.114
                                       27
   theta[422,1]
                      2.532 1.060
                                      48
  theta[423,1]
                                      23
##
                      0.057 1.151
## theta[424,1]
                      0.240 1.019
                                      180
## theta[425,1]
                      0.175 1.023
                                      120
## theta[426,1]
                      0.310 1.147
                                       23
```

```
## theta[427,1]
                      0.396 1.041
                                      75
## theta[428,1]
                      1.544 1.077
                                      38
## theta[429,1]
                      3.125 1.148
                                       22
## theta[430,1]
                      0.384 1.029
                                      110
## theta[431,1]
                      6.529 1.173
                                       20
## theta[432,1]
                      3.014 1.150
                                       22
## theta[433,1]
                      2.928 1.144
                                       24
## theta[434,1]
                      2.395 1.115
                                       28
## theta[435,1]
                     -0.133 1.139
                                       25
## theta[436,1]
                      0.287 1.151
                                       23
## theta[437,1]
                      0.131 1.029
                                      110
## theta[438,1]
                      2.404 1.046
                                      67
## theta[439,1]
                      2.493 1.065
                                      48
## theta[440,1]
                      2.554 1.116
                                       28
## theta[441,1]
                      0.021 1.136
                                       24
## theta[442,1]
                      0.351 1.153
                                       22
## theta[443,1]
                      2.510 1.146
                                       23
## theta[444,1]
                      2.815 1.105
                                       31
## theta[445,1]
                      4.909 1.161
                                       21
## theta[446,1]
                      0.259 1.168
                                       21
## theta[447,1]
                      1.395 1.046
                                       64
## theta[448,1]
                      2.675 1.087
                                       36
## theta[449,1]
                      0.921 1.008
                                      530
## theta[450,1]
                      0.323 1.020
                                      160
## theta[451,1]
                      0.008 1.055
                                       54
## theta[452,1]
                      1.018 1.004
                                    1000
## theta[453,1]
                      4.334 1.103
                                       31
## theta[454,1]
                      0.316 1.137
                                       25
## theta[455,1]
                      1.265 1.034
                                      82
## theta[456,1]
                      4.162 1.107
                                       31
## theta[457,1]
                      0.817 1.008
                                    2700
## theta[458,1]
                      4.295 1.165
                                       21
## theta[459,1]
                      4.097 1.083
                                       37
## theta[460,1]
                      2.443 1.043
                                       69
## theta[461,1]
                      2.783 1.099
                                      33
## theta[462,1]
                      0.099 1.063
                                      46
## theta[463,1]
                      0.476 1.034
                                      100
## theta[464,1]
                      2.622 1.078
                                      40
## theta[465,1]
                      1.520 1.044
                                       66
## theta[466,1]
                      2.221 1.093
                                      34
## theta[467,1]
                      0.442 1.012
                                      350
## theta[468,1]
                      4.750 1.136
                                       24
## theta[469,1]
                      2.431 1.043
                                      71
## theta[470,1]
                      1.860 1.088
                                       34
## theta[471,1]
                      2.780 1.118
                                       29
                      3.139 1.189
## theta[472,1]
                                       19
## theta[473,1]
                      2.747 1.109
                                       29
## theta[474,1]
                      2.712 1.098
                                       33
                     -0.171 1.155
## theta[475,1]
                                       22
## theta[476,1]
                      3.413 1.178
                                       20
                                       62
## theta[477,1]
                      2.543 1.050
## theta[478,1]
                      2.527 1.100
                                      31
## theta[479,1]
                      0.605 1.012
                                      230
## theta[480,1]
                      2.450 1.103
                                      31
```

```
## theta[481,1]
                      3.051 1.156
                                       22
## theta[482,1]
                      0.288 1.052
                                       60
## theta[483,1]
                      0.856 1.008
                                      970
## theta[484,1]
                      0.730 1.006
                                     870
## theta[485,1]
                      0.798 1.008
                                      650
## theta[486,1]
                      0.556 1.013
                                      310
## theta[487,1]
                      1.127 1.033
                                       90
## theta[488,1]
                      0.276 1.019
                                      170
##
   theta[489,1]
                      2.307 1.104
                                       30
  theta[490,1]
                      0.403 1.030
                                       94
  theta[491,1]
                      0.339 1.132
                                       25
## theta[492,1]
                      1.655 1.049
                                       59
  theta[493,1]
                     -0.232 1.153
                                       23
##
   theta[494,1]
                      3.926 1.071
                                       43
## theta[495,1]
                      0.340 1.127
                                       27
  theta[496,1]
                      1.981 1.051
                                       58
  theta[497,1]
##
                      0.266 1.151
                                       23
  theta[498,1]
                     -0.023 1.160
                                       21
## theta[499,1]
                      0.190 1.171
                                       21
## theta[500,1]
                      0.074 1.048
                                       61
## theta[501,1]
                      1.701 1.019
                                      160
## theta[502,1]
                      0.344 1.038
                                       81
## theta[503,1]
                     -0.002 1.163
                                       21
## theta[504,1]
                      0.147 1.049
                                       61
##
  theta[505,1]
                      0.233 1.135
                                       26
  theta[506,1]
                      0.178 1.136
                                       26
  theta[507,1]
                                       59
                      0.060 1.050
##
   theta[508,1]
                      0.024 1.033
                                       85
   theta[509,1]
                                       20
                      0.221 1.183
  theta[510,1]
                      0.550 1.133
                                       25
   theta[511,1]
                      0.260 1.029
                                      100
##
   theta[512,1]
                      0.174 1.030
                                       98
   theta[513,1]
                      2.709 1.059
                                       50
  theta[514,1]
                      0.110 1.022
                                      140
   theta[515,1]
                      0.132 1.032
                                       96
##
## theta[516,1]
                      0.200 1.035
                                      89
## theta[517,1]
                      0.131 1.123
                                       27
## theta[518,1]
                      0.886 1.007
                                      590
## theta[519,1]
                      0.195 1.164
                                       22
## theta[520,1]
                      1.848 1.087
                                       35
## theta[521,1]
                      0.314 1.117
                                       29
  theta[522,1]
                     -0.088 1.119
                                       28
##
   theta[523,1]
                     -0.073 1.126
                                       26
   theta[524,1]
                                       22
                      0.252 1.164
  theta[525,1]
                      0.309 1.127
                                       26
  theta[526,1]
                     -0.093 1.094
                                       34
##
   theta[527,1]
                      1.613 1.007
                                      610
   theta[528,1]
                      1.690 1.014
                                      220
  theta[529,1]
                     -0.107 1.120
                                       27
   theta[530,1]
                      1.345 1.180
                                       19
##
  theta[531,1]
                      0.259 1.110
                                       29
## theta[532,1]
                     -0.296 1.191
                                       19
## theta[533,1]
                      1.967 1.091
                                       34
## theta[534,1]
                     -0.339 1.143
                                       23
```

##	theta[535,1]	2.778	1.117	28
##	theta[536,1]	1.687	1.009	420
##	theta[1,2]	0.431	1.004	2500
##	theta[2,2]	1.361	1.007	440
##	theta[3,2]	0.401	1.020	140
##	theta[4,2]	0.796	1.002	3000
##	theta[5,2]	-0.022	1.027	120
##	theta[6,2]	0.399	1.012	220
##	theta[7,2]	0.151	1.020	180
##	theta[8,2]	-0.199	1.024	120
##	theta[9,2]	0.447	1.003	1200
##	theta[10,2]	0.419	1.002	2200
##	theta[11,2]	1.439	1.009	420
##	theta[12,2]	0.783	1.003	1800
##	theta[13,2]	0.149	1.003	880
##	theta[14,2]	-0.110	1.021	140
##	theta[15,2]	0.416	1.010	340
##	theta[16,2]	0.226	1.007	620
##	theta[17,2]	-0.079	1.051	60
##	theta[18,2]	0.350	1.004	1800
##	theta[19,2]	0.455	1.009	310
##	theta[20,2]	-0.166	1.016	180
##	theta[21,2]	1.400	1.002	1700
##	theta[22,2]	0.774	1.002	3100
##	theta[23,2]	2.126	1.021	160
##	theta[24,2]	0.497	1.008	530
##	theta[25,2]	0.549	1.004	1100
##	theta[26,2]	0.081	1.021	160
##	theta[27,2]	0.542	1.001	4000
##	theta[28,2]	-0.200	1.023	130
##	theta[29,2]	0.670	1.003	1400
##	theta[30,2]	2.130	1.008	390
##	theta[31,2]	1.239	1.007	560
##	theta[32,2]	2.160	1.012	250
##	theta[33,2]	0.563	1.004	1400
##	theta[34,2]	1.184	1.004	740
##	theta[35,2]	1.015	1.003	1400
##	theta[36,2]	1.194	1.007	430
##	theta[37,2]	0.430	1.005	690
##	theta[38,2]	0.581	1.009	320
##	theta[39,2]	1.389	1.010	540
##	theta[40,2]	0.880	1.009	410
##	theta[41,2]	0.089	1.015	200
##	theta[42,2]	2.090	1.011	340
##	theta[43,2]	1.831	1.007	490
##	theta[44,2]	0.004	1.012	240
##	theta[45,2]	0.473	1.007	420
##	theta[46,2]	0.400	1.008	440
##	theta[47,2]	0.449	1.006	600
##	theta[48,2]	0.260	1.004	1300
##	theta[49,2]	0.263	1.008	460
##	theta[50,2]	0.564	1.005	630
##	theta[51,2]	0.014	1.011	240
##	theta[52,2]	0.307	1.018	160
		3.001		

```
## theta[53,2]
                       0.029 1.024
                                      120
## theta[54,2]
                                      360
                       1.463 1.009
  theta[55,2]
                       0.791 1.003
                                     2300
  theta[56,2]
                       2.195 1.007
                                      430
##
   theta[57,2]
                       1.517 1.008
                                      450
   theta[58,2]
##
                       0.094 1.013
                                      260
                                     4000
  theta[59,2]
                       0.714 1.002
  theta[60,2]
                       0.776 1.008
                                      430
##
   theta[61,2]
                       0.182 1.015
                                      260
   theta[62,2]
                     -0.007 1.007
                                      480
   theta[63,2]
                       1.440 1.009
                                      330
   theta[64,2]
                       1.453 1.008
                                      500
##
   theta[65,2]
                       1.308 1.002
                                     1700
                       0.395 1.005
   theta[66,2]
                                      950
   theta[67,2]
                                      560
                       1.316 1.007
   theta[68,2]
                       0.108 1.019
                                      190
##
   theta[69,2]
                     -0.214 1.026
                                      130
   theta[70,2]
                       0.263 1.005
                                      550
  theta[71,2]
                       0.904 1.003
                                     1400
## theta[72,2]
                       0.587 1.004
                                      780
##
  theta[73,2]
                     -0.166 1.017
                                      180
  theta[74,2]
                       1.550 1.011
                                      280
  theta[75,2]
##
                       0.262 1.007
                                      710
   theta[76,2]
##
                     -0.233 1.022
                                      150
##
   theta[77,2]
                       0.893 1.007
                                      720
   theta[78,2]
                       0.989 1.010
                                      330
   theta[79,2]
                       2.021 1.005
                                      550
##
   theta[80,2]
                       0.668 1.002
                                     2300
   theta[81,2]
                       0.093 1.012
                                      240
   theta[82,2]
                       0.634 1.009
                                      350
   theta[83,2]
                       0.084 1.017
                                      200
##
   theta[84,2]
                       0.146 1.011
                                      270
   theta[85,2]
                       0.432 1.002
                                     1500
   theta[86,2]
                       0.232 1.008
                                      350
   theta[87,2]
                       0.821 1.004
                                     1100
   theta[88,2]
##
                       0.850 1.007
                                      720
  theta[89,2]
                       2.057 1.025
                                      150
## theta[90,2]
                       1.132 1.006
                                      570
## theta[91,2]
                       0.874 1.003
                                      870
  theta[92,2]
                       0.218 1.006
##
                                      760
   theta[93,2]
                       1.301 1.007
                                      700
   theta[94,2]
                       1.610 1.007
                                      480
   theta[95,2]
##
                       2.048 1.007
                                      510
   theta[96,2]
                       1.400 1.006
                                      770
   theta[97,2]
                       0.804 1.014
                                      210
  theta[98,2]
                       0.437 1.003
                                     4000
##
   theta[99,2]
                       1.098 1.005
                                      710
                     -0.094 1.034
   theta[100,2]
                                       89
   theta[101,2]
                      0.566 1.003
                                     1500
   theta[102,2]
                       2.213 1.025
                                      130
                                     4000
##
   theta[103,2]
                      0.875 1.003
   theta[104,2]
                       1.632 1.009
                                      400
                                     1700
## theta[105,2]
                      0.804 1.004
## theta[106,2]
                       1.150 1.005
                                      740
```

```
## theta[107,2]
                     -0.115 1.037
                                      89
                                      270
## theta[108,2]
                      2.040 1.014
  theta[109,2]
                      1.265 1.008
                                     500
## theta[110,2]
                      0.435 1.001
                                    4000
##
  theta[111,2]
                     -0.012 1.014
                                     210
  theta[112,2]
##
                     -0.220 1.017
                                      190
  theta[113,2]
                      0.956 1.017
                                      160
## theta[114,2]
                      0.713 1.015
                                      240
   theta[115,2]
                      0.781 1.005
                                     750
   theta[116,2]
                      1.692 1.012
                                      270
   theta[117,2]
                      0.119 1.011
                                      260
   theta[118,2]
                                    4000
                      0.465 1.001
   theta[119,2]
                      0.934 1.002
                                    1700
##
   theta[120,2]
                     -0.214 1.025
                                      130
  theta[121,2]
                     -0.015 1.017
                                      190
   theta[122,2]
                      0.524 1.005
                                    1000
   theta[123,2]
                      0.394 1.009
                                      390
   theta[124,2]
                      2.076 1.018
                                      170
  theta[125,2]
                      0.938 1.011
                                      300
## theta[126,2]
                      1.164 1.010
                                      320
##
  theta[127,2]
                      1.715 1.010
                                      300
  theta[128,2]
                      1.632 1.014
                                      240
## theta[129,2]
                      0.586 1.002
                                    4000
   theta[130,2]
##
                      1.103 1.024
                                      120
  theta[131,2]
                      0.314 1.008
                                      540
  theta[132,2]
                      1.399 1.005
                                      540
  theta[133,2]
                      0.503 1.006
                                      470
##
   theta[134,2]
                     -0.195 1.023
                                      130
   theta[135,2]
                      0.039 1.005
                                      590
   theta[136,2]
                      1.592 1.006
                                      680
   theta[137,2]
                      0.514 1.005
                                      720
   theta[138,2]
                      1.584 1.004
                                      810
   theta[139,2]
                      0.320 1.007
                                      450
                      1.973 1.015
  theta[140,2]
                                      240
   theta[141,2]
                      0.572 1.009
                                      400
##
  theta[142,2]
                      1.446 1.015
                                      220
  theta[143,2]
                      0.012 1.015
                                      210
## theta[144,2]
                      0.058 1.013
                                      210
## theta[145,2]
                      0.147 1.011
                                      380
                                     700
## theta[146,2]
                      1.193 1.005
  theta[147,2]
                      1.256 1.004
                                    1100
  theta[148,2]
                     -0.229 1.028
                                      120
##
   theta[149,2]
                      1.527 1.006
                                     590
   theta[150,2]
                      2.115 1.009
                                      430
  theta[151,2]
                      0.979 1.005
                                    1300
  theta[152,2]
                      1.616 1.023
                                      150
##
   theta[153,2]
                      1.682 1.022
                                      150
   theta[154,2]
                      1.408 1.012
                                      330
   theta[155,2]
                      0.771 1.003
                                    4000
   theta[156,2]
                      1.136 1.002
                                    4000
##
   theta[157,2]
                      1.423 1.005
                                     660
## theta[158,2]
                      0.224 1.002
                                    1500
## theta[159,2]
                      0.869 1.006
                                     750
## theta[160,2]
                      1.577 1.006
                                     620
```

```
## theta[161,2]
                      1.426 1.008
                                      340
## theta[162,2]
                      0.852 1.003
                                    4000
  theta[163,2]
                      1.571 1.009
                                      470
  theta[164,2]
                      1.765 1.009
                                      360
   theta[165,2]
##
                     -0.241 1.016
                                      170
   theta[166,2]
##
                      0.304 1.006
                                      530
   theta[167,2]
                      0.174 1.007
                                      470
  theta[168,2]
                      2.089 1.014
                                      240
   theta[169,2]
                      1.101 1.019
                                      180
   theta[170,2]
                     -0.242 1.030
                                      110
   theta[171,2]
                      0.307 1.011
                                      290
                                      300
   theta[172,2]
                      1.405 1.011
   theta[173,2]
                      2.009 1.008
                                      420
##
   theta[174,2]
                      0.560 1.007
                                      570
   theta[175,2]
                      0.625 1.003
                                     2200
   theta[176,2]
                      0.517 1.002
                                     2900
##
   theta[177,2]
                      0.577 1.006
                                      630
   theta[178,2]
                      0.268 1.014
                                      250
  theta[179,2]
                      1.432 1.002
                                     1900
##
  theta[180,2]
                      1.471 1.012
                                      240
##
  theta[181,2]
                     -0.212 1.044
                                       77
  theta[182,2]
                      1.154 1.005
                                    1500
  theta[183,2]
##
                      0.575 1.013
                                      260
   theta[184,2]
                      2.099 1.032
##
                                       99
   theta[185,2]
                      1.684 1.006
                                      470
   theta[186,2]
                      1.621 1.006
                                     1400
  theta[187,2]
                                      290
                      0.319 1.010
##
   theta[188,2]
                      0.159 1.005
                                      770
   theta[189,2]
                      2.085 1.013
                                      290
   theta[190,2]
                      2.060 1.016
                                      200
   theta[191,2]
                      0.749 1.005
                                     3900
##
   theta[192,2]
                      1.572 1.009
                                      510
   theta[193,2]
                      1.841 1.023
                                      140
   theta[194,2]
                      0.373 1.008
                                      320
   theta[195,2]
                      0.568 1.002
                                     2800
   theta[196,2]
##
                      1.581 1.008
                                      500
   theta[197,2]
                      1.631 1.017
                                      190
## theta[198,2]
                      2.149 1.010
                                      460
  theta[199,2]
                      1.491 1.005
                                      840
  theta[200,2]
                                      220
##
                     -0.001 1.015
   theta[201,2]
                      2.141 1.021
                                      150
   theta[202,2]
                      1.423 1.006
                                      690
   theta[203,2]
##
                      0.920 1.015
                                      220
   theta[204,2]
                      1.701 1.015
                                      210
   theta[205,2]
                      0.561 1.004
                                     1700
   theta[206,2]
                      1.443 1.028
                                      120
##
   theta[207,2]
                      0.701 1.005
                                      740
   theta[208,2]
                      0.278 1.020
                                      160
   theta[209,2]
                      0.673 1.003
                                     2700
   theta[210,2]
                      2.100 1.011
                                      290
##
   theta[211,2]
                      0.505 1.012
                                      260
  theta[212,2]
                      0.751 1.002
                                     1700
## theta[213,2]
                      2.092 1.014
                                      220
## theta[214,2]
                      1.655 1.006
                                      650
```

```
## theta[215,2]
                      0.342 1.009
                                      320
## theta[216,2]
                                      240
                      2.123 1.019
                     -0.169 1.013
  theta[217,2]
                                      220
## theta[218,2]
                      1.494 1.012
                                      280
##
  theta[219,2]
                      0.805 1.006
                                     810
  theta[220,2]
                      0.184 1.006
                                      480
  theta[221,2]
                      0.686 1.003
                                    4000
## theta[222,2]
                      1.271 1.005
                                      640
   theta[223,2]
                      2.158 1.014
                                      230
   theta[224,2]
                      0.085 1.013
                                      220
   theta[225,2]
                      1.594 1.011
                                      400
   theta[226,2]
                                      190
                      0.166 1.018
   theta[227,2]
                     -0.207 1.020
                                      160
   theta[228,2]
                      0.012 1.011
                                      270
   theta[229,2]
                      1.409 1.003
                                    2400
   theta[230,2]
                      0.778 1.003
                                    3500
   theta[231,2]
                     -0.218 1.019
                                      160
   theta[232,2]
                      0.904 1.001
                                    4000
                      0.839 1.003
  theta[233,2]
                                    1800
## theta[234,2]
                      0.915 1.003
                                    3000
  theta[235,2]
                      0.212 1.017
                                      160
  theta[236,2]
                     -0.018 1.023
                                      130
## theta[237,2]
                      0.440 1.013
                                      220
   theta[238,2]
                      1.748 1.023
                                     150
  theta[239,2]
                      0.149 1.003
                                    1700
  theta[240,2]
                      0.228 1.015
                                     220
## theta[241,2]
                      1.127 1.004
                                    1400
##
   theta[242,2]
                      1.219 1.007
                                     480
   theta[243,2]
                      0.651 1.002
                                    3300
  theta[244,2]
                      0.869 1.004
                                    1900
   theta[245,2]
                      1.433 1.009
                                      340
   theta[246,2]
                     -0.182 1.026
                                      120
   theta[247,2]
                      1.457 1.005
                                      670
  theta[248,2]
                      1.510 1.012
                                      260
   theta[249,2]
                     -0.071 1.018
                                      170
  theta[250,2]
##
                      0.462 1.010
                                      340
## theta[251,2]
                     -0.211 1.034
                                       95
## theta[252,2]
                      0.828 1.005
                                    1600
## theta[253,2]
                     -0.144 1.033
                                       93
  theta[254,2]
                      0.745 1.002
##
                                    3000
  theta[255,2]
                      0.565 1.001
                                    4000
  theta[256,2]
                      1.339 1.012
                                     250
   theta[257,2]
##
                      2.058 1.011
                                      310
   theta[258,2]
                      0.592 1.009
                                      590
   theta[259,2]
                      0.173 1.011
                                      290
  theta[260,2]
                      1.582 1.030
                                      100
##
   theta[261,2]
                      0.374 1.013
                                      240
   theta[262,2]
                      1.390 1.019
                                      170
   theta[263,2]
                      0.867 1.001
                                    2800
   theta[264,2]
                     -0.009 1.012
                                      260
##
   theta[265,2]
                      0.481 1.004
                                      900
## theta[266,2]
                      1.532 1.011
                                      270
## theta[267,2]
                      1.559 1.008
                                     520
## theta[268,2]
                      0.353 1.019
                                      160
```

```
## theta[269,2]
                      1.122 1.004
                                    1200
## theta[270,2]
                      0.853 1.001
                                    4000
  theta[271,2]
                      0.927 1.003
                                    2000
## theta[272,2]
                      0.757 1.004
                                     950
##
   theta[273,2]
                      1.774 1.009
                                     340
   theta[274,2]
                      0.128 1.011
                                      310
   theta[275,2]
                      2.112 1.015
                                      220
  theta[276,2]
                      0.792 1.002
                                    1700
   theta[277,2]
                      1.579 1.004
                                     810
   theta[278,2]
                      2.130 1.013
                                      270
   theta[279,2]
                      1.518 1.009
                                      370
   theta[280,2]
                                      330
                      2.071 1.008
   theta[281,2]
                      1.804 1.014
                                      230
##
                      2.010 1.010
   theta[282,2]
                                      320
   theta[283,2]
                      0.976 1.004
                                     1100
   theta[284,2]
                      1.613 1.011
                                      340
   theta[285,2]
                      0.482 1.004
                                     720
   theta[286,2]
                     -0.189 1.032
                                      100
  theta[287,2]
                                    4000
                      0.863 1.003
  theta[288,2]
                      1.670 1.008
                                     420
  theta[289,2]
                      0.947 1.003
                                    2100
  theta[290,2]
                      1.256 1.003
                                     1500
  theta[291,2]
                     -0.227 1.026
                                      130
   theta[292,2]
##
                      0.531 1.005
                                      690
   theta[293,2]
                      0.757 1.002
                                    4000
   theta[294,2]
                      0.801 1.001
                                     4000
  theta[295,2]
                      1.725 1.012
                                      240
##
   theta[296,2]
                     -0.131 1.039
                                      85
   theta[297,2]
                     -0.017 1.009
                                      440
   theta[298,2]
                      0.819 1.002
                                     4000
   theta[299,2]
                     -0.143 1.047
                                       71
   theta[300,2]
                      0.980 1.002
                                    4000
   theta[301,2]
                      1.561 1.015
                                      210
   theta[302,2]
                      1.641 1.011
                                      300
   theta[303,2]
                      0.989 1.005
                                     720
##
   theta[304,2]
                      0.124 1.019
                                      150
  theta[305,2]
                      1.114 1.005
                                      960
## theta[306,2]
                      1.530 1.023
                                      140
## theta[307,2]
                      0.355 1.001
                                    4000
  theta[308,2]
##
                      0.483 1.004
                                     1200
   theta[309,2]
                      0.320 1.013
                                      230
  theta[310,2]
                      0.527 1.003
                                    3800
   theta[311,2]
##
                      1.338 1.005
                                     910
   theta[312,2]
                      0.291 1.004
                                      680
   theta[313,2]
                      1.141 1.005
                                      680
   theta[314,2]
                                     4000
                      0.895 1.002
##
   theta[315,2]
                      1.273 1.009
                                      500
   theta[316,2]
                      0.399 1.005
                                      590
   theta[317,2]
                      0.994 1.004
                                    1600
   theta[318,2]
                      1.009 1.003
                                    1300
##
   theta[319,2]
                      0.627 1.002
                                     2000
  theta[320,2]
                      1.039 1.009
                                      370
## theta[321,2]
                      0.420 1.002
                                    3900
## theta[322,2]
                      1.513 1.004
                                    1100
```

```
## theta[323,2]
                      1.586 1.015
                                      240
## theta[324,2]
                      0.832 1.004
                                     1200
   theta[325,2]
                      1.605 1.008
                                      370
   theta[326,2]
                      0.882 1.001
                                     3800
##
   theta[327,2]
                     -0.203 1.033
                                       96
   theta[328,2]
##
                      0.598 1.002
                                     1500
   theta[329,2]
                      0.396 1.002
                                     2000
   theta[330,2]
                      0.639 1.002
                                     4000
   theta[331,2]
                      1.235 1.007
                                      820
   theta[332,2]
                      0.293 1.005
                                      590
   theta[333,2]
                      0.897 1.002
                                     2200
   theta[334,2]
                      0.098 1.020
                                      200
   theta[335,2]
                      0.795 1.004
##
                                     2000
   theta[336,2]
                      0.788 1.003
                                     1700
   theta[337,2]
                      0.605 1.004
                                      980
   theta[338,2]
                      0.477 1.006
                                      650
##
   theta[339,2]
                      0.581 1.001
                                     3600
   theta[340,2]
                      1.612 1.014
                                      300
   theta[341,2]
                      1.553 1.006
                                      590
##
   theta[342,2]
                      0.075 1.017
                                      190
##
   theta[343,2]
                      0.359 1.007
                                      920
   theta[344,2]
                      1.009 1.019
                                      210
  theta[345,2]
##
                      0.349 1.006
                                      520
   theta[346,2]
##
                      1.409 1.006
                                     1100
   theta[347,2]
                      0.081 1.019
                                      150
   theta[348,2]
                      0.721 1.002
                                     4000
   theta[349,2]
                      0.444 1.008
                                      510
##
   theta[350,2]
                      1.381 1.003
                                     1500
   theta[351,2]
                      2.182 1.022
                                      140
   theta[352,2]
                      0.855 1.003
                                     3500
   theta[353,2]
                      0.323 1.009
                                      440
   theta[354,2]
                      1.550 1.011
                                      320
   theta[355,2]
                      0.557 1.004
                                     3100
   theta[356,2]
                      1.174 1.002
                                     4000
   theta[357,2]
                      0.730 1.001
                                     4000
##
##
   theta[358,2]
                      2.119 1.013
                                      250
   theta[359,2]
                      1.461 1.003
                                     1200
  theta[360,2]
                      0.937 1.007
                                     1100
  theta[361,2]
                      1.403 1.005
##
                                     1400
##
   theta[362,2]
                      1.195 1.005
                                     1300
   theta[363,2]
                      1.585 1.009
                                      330
   theta[364,2]
                      0.684 1.002
                                     2800
   theta[365,2]
##
                      1.090 1.005
                                      670
   theta[366,2]
                      1.101 1.006
                                      830
   theta[367,2]
                      0.824 1.002
                                     4000
   theta[368,2]
                                      440
                      1.598 1.008
##
   theta[369,2]
                      1.809 1.007
                                      400
   theta[370,2]
                      1.570 1.008
                                      530
   theta[371,2]
                      0.479 1.010
                                      480
   theta[372,2]
                      1.010 1.003
                                     1200
##
   theta[373,2]
                      0.733 1.008
                                      420
   theta[374,2]
                      1.450 1.006
                                      910
## theta[375,2]
                      1.683 1.025
                                      130
## theta[376,2]
                      1.704 1.009
                                      370
```

```
## theta[377,2]
                      0.995 1.006
                                      430
                      1.058 1.010
## theta[378,2]
                                      300
  theta[379,2]
                      1.363 1.007
                                      470
  theta[380,2]
                      0.663 1.003
                                    2500
   theta[381,2]
##
                      0.500 1.007
                                    1900
   theta[382,2]
##
                      1.119 1.003
                                    1500
   theta[383,2]
                      1.379 1.004
                                    1300
   theta[384,2]
                      1.774 1.007
                                      610
   theta[385,2]
                      1.006 1.003
                                    1900
   theta[386,2]
                      1.199 1.012
                                      220
   theta[387,2]
                      1.048 1.004
                                      800
   theta[388,2]
                      0.765 1.003
                                     1300
##
   theta[389,2]
                      1.542 1.010
                                      330
   theta[390,2]
                      1.243 1.006
                                      670
   theta[391,2]
                      0.772 1.001
                                     4000
   theta[392,2]
                      0.486 1.001
                                     4000
##
   theta[393,2]
                      0.720 1.002
                                    2600
   theta[394,2]
                      2.061 1.014
                                      210
   theta[395,2]
                      0.328 1.007
                                      510
##
  theta[396,2]
                      2.076 1.009
                                      400
##
   theta[397,2]
                      0.338 1.008
                                      520
   theta[398,2]
                      1.151 1.003
                                     1700
  theta[399,2]
##
                     -0.156 1.021
                                      140
   theta[400,2]
##
                      1.332 1.004
                                      660
   theta[401,2]
                      0.445 1.016
                                      220
   theta[402,2]
                      0.960 1.003
                                     1200
   theta[403,2]
                      0.994 1.005
                                      550
##
   theta[404,2]
                      0.784 1.009
                                      530
   theta[405,2]
                      1.562 1.015
                                      210
   theta[406,2]
                     -0.200 1.028
                                      120
   theta[407,2]
                      0.929 1.003
                                     2300
##
   theta[408,2]
                     -0.199 1.027
                                      110
   theta[409,2]
                      0.987 1.003
                                     4000
   theta[410,2]
                      2.138 1.014
                                      200
   theta[411,2]
                      1.020 1.010
                                      370
   theta[412,2]
##
                      0.868 1.005
                                    1500
   theta[413,2]
                      2.189 1.020
                                      150
## theta[414,2]
                      0.408 1.007
                                     1400
  theta[415,2]
                      0.311 1.004
                                      860
  theta[416,2]
##
                      0.980 1.004
                                    1100
   theta[417,2]
                      0.635 1.004
                                      720
   theta[418,2]
                      0.616 1.012
                                      230
   theta[419,2]
##
                      1.203 1.003
                                    1100
   theta[420,2]
                      0.695 1.005
                                      580
   theta[421,2]
                      0.321 1.010
                                      300
   theta[422,2]
                      0.981 1.002
                                     3100
##
   theta[423,2]
                      0.063 1.010
                                      340
   theta[424,2]
                      1.083 1.006
                                      590
   theta[425,2]
                      1.138 1.008
                                      400
   theta[426,2]
                     -0.204 1.030
                                      110
   theta[427,2]
##
                      0.875 1.005
                                      690
  theta[428,2]
                      1.508 1.008
                                      400
## theta[429,2]
                      1.491 1.014
                                      280
## theta[430,2]
                      0.763 1.006
```

```
## theta[431,2]
                      2.074 1.023
                                     160
## theta[432,2]
                      1.201 1.005
                                    1300
  theta[433,2]
                      1.162 1.006
                                     870
  theta[434,2]
                      1.681 1.007
                                      400
##
   theta[435,2]
                      0.122 1.016
                                      190
   theta[436,2]
                     -0.215 1.032
                                       96
   theta[437,2]
                      0.861 1.001
                                    4000
  theta[438,2]
                      0.994 1.005
                                    2400
   theta[439,2]
                      1.371 1.010
                                      300
   theta[440,2]
                      1.486 1.012
                                      270
   theta[441,2]
                      0.334 1.009
                                      530
  theta[442,2]
                     -0.209 1.028
                                      110
   theta[443,2]
                      0.908 1.002
                                    2500
   theta [444,2]
                      1.485 1.005
                                      750
   theta[445,2]
                                      450
                      1.678 1.006
   theta[446,2]
                     -0.214 1.033
                                      99
   theta[447,2]
                                     530
##
                      1.324 1.005
   theta[448,2]
                      1.318 1.004
                                    1100
  theta[449,2]
                      0.203 1.008
                                     570
##
  theta[450,2]
                      0.760 1.004
                                    2500
##
  theta[451,2]
                      0.524 1.007
                                     560
  theta[452,2]
                      0.597 1.003
                                    2500
  theta[453,2]
##
                      1.129 1.004
                                    2800
   theta[454,2]
##
                     -0.203 1.036
                                       93
   theta[455,2]
                      0.927 1.004
                                    1100
   theta[456,2]
                      1.270 1.012
                                      320
  theta[457,2]
                      0.703 1.002
                                    2400
##
   theta[458,2]
                      1.394 1.007
                                     510
   theta[459,2]
                      0.949 1.003
                                    2100
   theta[460,2]
                      0.911 1.004
                                    2000
   theta[461,2]
                      1.429 1.006
                                      630
##
   theta[462,2]
                      0.653 1.001
                                    3000
   theta[463,2]
                      0.599 1.003
                                    1600
   theta[464,2]
                      1.286 1.005
                                     710
   theta[465,2]
                      1.237 1.009
                                     350
  theta[466,2]
##
                      1.403 1.008
                                     410
  theta[467,2]
                      0.872 1.003
                                     2700
## theta[468,2]
                      1.558 1.007
                                      430
## theta[469,2]
                      0.879 1.003
                                    3100
  theta[470,2]
                      1.319 1.013
##
                                     270
   theta[471,2]
                      1.476 1.006
                                    1200
   theta[472,2]
                      1.543 1.009
                                     360
##
   theta[473,2]
                      1.396 1.017
                                     180
   theta[474,2]
                      1.368 1.017
                                      160
   theta[475,2]
                     -0.131 1.022
                                      140
  theta[476,2]
                      1.771 1.011
                                      260
##
   theta[477,2]
                      0.893 1.004
                                    1300
   theta[478,2]
                      1.506 1.010
                                      280
   theta[479,2]
                      1.059 1.005
                                    1000
   theta[480,2]
                      1.948 1.019
                                     160
   theta[481,2]
##
                      1.373 1.003
                                    1300
  theta[482,2]
                      0.407 1.012
                                     300
## theta[483,2]
                      0.754 1.006
                                      460
## theta[484,2]
                      1.147 1.002
                                   3100
```

```
## theta[485,2]
                      1.151 1.003
                                    1300
## theta[486,2]
                      0.587 1.003
                                    2300
   theta[487,2]
                      1.292 1.011
                                     240
  theta[488,2]
                      1.112 1.003
                                    1400
##
   theta[489,2]
                      1.585 1.005
                                     520
   theta[490,2]
                      0.708 1.004
                                     1900
  theta[491,2]
                     -0.201 1.029
                                      110
  theta[492,2]
                      1.391 1.017
                                      200
   theta[493,2]
                      0.076 1.016
                                      180
   theta[494,2]
                      0.667 1.002
                                    1600
   theta[495,2]
                     -0.156 1.036
                                       93
   theta[496,2]
                      0.941 1.004
                                    4000
   theta[497,2]
                      0.013 1.035
                                       85
   theta[498,2]
                     -0.006 1.005
                                      600
   theta[499,2]
                     -0.274 1.028
                                      110
   theta[500,2]
                      0.516 1.005
                                     950
   theta[501,2]
                      1.236 1.004
                                    3200
   theta[502,2]
                      0.396 1.006
                                      610
  theta[503,2]
                      0.005 1.004
                                     840
##
  theta[504,2]
                      0.703 1.005
                                     700
##
   theta[505,2]
                     -0.131 1.019
                                      180
  theta[506,2]
                     -0.250 1.026
                                      110
  theta[507,2]
                      0.720 1.003
                                    2600
   theta[508,2]
##
                      0.805 1.002
                                    4000
   theta[509,2]
                     -0.255 1.034
                                       90
   theta[510,2]
                     -0.009 1.006
                                     530
   theta[511,2]
                      1.097 1.002
                                    2700
##
   theta[512,2]
                      1.023 1.006
                                     590
   theta[513,2]
                      0.821 1.003
                                     4000
   theta[514,2]
                      0.876 1.002
                                     3100
   theta[515,2]
                      0.546 1.001
                                    4000
##
   theta[516,2]
                      0.749 1.004
                                     1600
   theta[517,2]
                      0.099 1.013
                                      280
   theta[518,2]
                      0.705 1.008
                                     520
   theta[519,2]
                     -0.235 1.033
                                     100
##
   theta[520,2]
                      1.214 1.004
                                     830
   theta[521,2]
                     -0.138 1.009
                                      400
## theta[522,2]
                     -0.071 1.023
                                      140
  theta[523,2]
                      0.119 1.012
                                      280
   theta[524,2]
##
                     -0.203 1.024
                                      130
   theta[525,2]
                                      290
                     -0.232 1.010
   theta[526,2]
                     -0.101 1.034
                                       94
   theta[527,2]
##
                      0.811 1.008
                                     420
   theta[528,2]
                                      280
                      0.823 1.010
   theta[529,2]
                      0.090 1.015
                                      210
   theta[530,2]
                     -0.096 1.021
                                      130
##
   theta[531,2]
                     -0.172 1.012
                                      230
   theta [532,2]
                     -0.206 1.019
                                      170
   theta[533,2]
                      1.136 1.007
                                      760
   theta[534,2]
                     -0.237 1.022
                                      150
   theta[535,2]
##
                      1.159 1.004
                                      950
  theta[536,2]
                      0.743 1.006
                                      580
## theta[1,3]
                      1.804 1.041
                                       72
## theta[2,3]
                      2.083 1.194
                                       18
```

##	theta[3,3]	2.162 1.043	71
##	theta[4,3]	1.657 1.040	84
##	theta[5,3]	2.687 1.170	21
##	theta[6,3]	1.682 1.189	19
##	theta[7,3]	2.765 1.275	14
##	theta[8,3]	3.558 1.268	15
##	theta[9,3]	1.518 1.156	21
##	theta[10,3]	1.828 1.200	18
##	theta[11,3]	1.163 1.097	35
##	theta[12,3]	1.786 1.009	630
##	theta[13,3]	1.399 1.049	63
##	theta[14,3]	3.044 1.192	20
##	theta[15,3]	1.763 1.202	18
##	theta[16,3]	1.232 1.062	52
##	theta[17,3]	3.059 1.207	19
##	theta[18,3]	1.715 1.163	21
##	theta[19,3]	1.436 1.138	24
##	theta[20,3]	3.114 1.285	14
##	theta[21,3]	1.665 1.144	25
##	theta[22,3]	1.596 1.032	100
##	theta[23,3]	2.613 1.306	13
##	theta[24,3]	0.852 1.016	190
##	theta[25,3]	1.727 1.018	220
##	theta[26,3]	2.999 1.282	14
##	theta[27,3]	1.502 1.172	20
##	theta[28,3]	3.652 1.309	13
##	theta[29,3]	1.276 1.135	24
##	theta[30,3]	2.662 1.289	14
##	theta[31,3]	1.307 1.098	33
##	theta[32,3]	2.472 1.276	14
##	theta[33,3]	2.574 1.124	26
##	theta[34,3]	1.267 1.100	32
##	theta[35,3]	1.852 1.102	32
##	theta[36,3]	0.984 1.023	160
##	theta[37,3]	1.460 1.028	110
##	theta[38,3]	2.118 1.013	250
##		1.786 1.139	250
	theta[39,3]		
##	theta[40,3]	1.029 1.106	30
##	theta[41,3]	2.949 1.280	14
##	theta[42,3]	2.726 1.280	14
##	theta[43,3]	1.792 1.185	19
##	theta[44,3]	2.237 1.203	18
##	theta[45,3]	2.440 1.106	29
##	theta[46,3]	1.876 1.038	79
##	theta[47,3]	1.414 1.127	25
##	theta[48,3]	1.244 1.034	87
##	theta[49,3]	2.613 1.269	14
##	theta[50,3]	1.781 1.083	36
##	theta[51,3]	3.019 1.291	14
##	theta[52,3]	1.890 1.137	24
##	theta[53,3]	2.164 1.108	31
##	theta[54,3]	1.745 1.198	18
##	theta[55,3]	1.162 1.019	150
##	theta[56,3]	2.673 1.253	15

##	theta[57,3]	2.161	1.223	17
##	theta[58,3]	3.040	1.298	13
##	theta[59,3]	1.243	1.131	25
##	theta[60,3]	1.367	1.131	26
##	theta[61,3]	2.084	1.202	18
##	theta[62,3]	2.976	1.277	14
##	theta[63,3]	1.140	1.109	34
##	theta[64,3]	1.742	1.127	27
##	theta[65,3]	1.427	1.041	78
##	theta[66,3]	1.460	1.024	140
##	theta[67,3]	1.318	1.086	39
##	theta[68,3]	2.965	1.274	14
##	theta[69,3]	3.780	1.315	13
##	theta[70,3]	1.567	1.032	95
##	theta[71,3]	1.110	1.133	25
##	theta[72,3]	1.549	1.188	19
##	theta[73,3]	3.274	1.294	14
##	theta[74,3]	0.947	1.116	33
##	theta[75,3]	1.637	1.152	23
##	theta[76,3]	3.648	1.290	14
##	theta[77,3]	1.223	1.096	33
##	theta[78,3]	1.127	1.108	32
##	theta[79,3]	2.591	1.271	14
##	theta[80,3]	1.389	1.055	54
##	theta[81,3]	2.225	1.156	23
##	theta[82,3]	2.150	1.091	34
##	theta[83,3]	2.940	1.290	14
##	theta[84,3]	1.945	1.085	37
##	theta[85,3]	1.589	1.031	91
##	theta[86,3]	2.189	1.041	69
##	theta[87,3]	1.332	1.030	120
##	theta[88,3]	1.782	1.090	35
##	theta[89,3]	2.545	1.310	13
##	theta[90,3]	2.032	1.162	21
##	theta[91,3]	1.907	1.049	59
##	theta[92,3]	1.822	1.189	19
##	theta[93,3]	2.011	1.144	24
##	theta[94,3]	1.988	1.192	19
##	theta[95,3]	2.663	1.261	15
##	theta[96,3]	1.998	1.200	18
##	theta[97,3]	0.600	1.016	220
##	theta[98,3]	1.625	1.174	20
##	theta[99,3]	2.233	1.148	23
##	theta[100,3]	3.189	1.248	16
##	theta[101,3]	1.599	1.171	20
##	theta[102,3]	1.550	1.278	15
##	theta[103,3]	1.158	1.128	25
##	theta[104,3]	1.786	1.200	18
##	theta[105,3]	1.521	1.010	470
##	theta[106,3]	0.743	1.021	150
##	theta[107,3]	3.177	1.157	23
##	theta[108,3]	2.526	1.264	15
##	theta[109,3]	1.112	1.061	55
##	theta[110,3]	1.112	1.001	380
π#	one ou [110,0]	1.311	1.010	560

##	theta[111,3]	2.177 1.201	18
##	theta[112,3]	3.515 1.299	14
##	theta[113,3]	0.795 1.011	500
##	theta[114,3]	0.758 1.019	190
##	theta[115,3]	1.377 1.014	940
##	theta[116,3]	1.718 1.208	17
##	theta[117,3]	2.899 1.311	13
##	theta[118,3]	1.435 1.011	310
##	theta[119,3]	1.357 1.084	36
##	theta[120,3]	3.748 1.306	13
##	theta[121,3]	3.108 1.262	15
##	theta[122,3]	1.121 1.074	40
##	theta[123,3]	1.597 1.190	19
##	theta[124,3]	2.626 1.272	14
##	theta[125,3]	1.056 1.073	44
##	theta[126,3]	1.693 1.114	28
##	theta[127,3]	1.869 1.199	19
##	theta[128,3]	1.367 1.164	21
##	theta[129,3]	1.358 1.016	250
##	theta[130,3]	1.625 1.129	26
##	theta[131,3]	1.270 1.078	41
##	theta[132,3]	0.897 1.036	110
##	theta[133,3]	1.494 1.065	47
##	theta[134,3]	3.153 1.309	13
##	theta[135,3]	2.813 1.270	14
##	theta[136,3]	1.968 1.180	20
##	theta[137,3]	1.219 1.023	140
##		2.220 1.245	16
##	theta[138,3]	2.519 1.279	14
	theta[139,3]		
##	theta[140,3]	1.890 1.234	16
##	theta[141,3]	1.948 1.007	620
##	theta[142,3]	1.488 1.151	23
##	theta[143,3]	2.090 1.186	19
##	theta[144,3]	1.896 1.199	19
##	theta[145,3]	1.491 1.111	30
##	theta[146,3]	1.360 1.092	36
##	theta[147,3]	2.353 1.152	22
##	theta[148,3]	3.625 1.316	13
##	theta[149,3]	0.837 1.063	51
##	theta[150,3]	2.630 1.287	14
##	theta[151,3]	2.036 1.102	31
##	theta[152,3]	1.568 1.206	18
##	theta[153,3]	0.763 1.184	20
##	theta[154,3]	1.179 1.124	28
##	theta[155,3]	1.687 1.053	55
##	theta[156,3]	2.432 1.217	17
##	theta[157,3]	1.359 1.082	39
##	theta[158,3]	1.734 1.020	140
##	theta[159,3]	1.810 1.025	120
##	theta[160,3]	1.802 1.200	19
##	theta[161,3]	1.449 1.111	31
##	theta[162,3]	2.202 1.124	26
##	theta[163,3]	1.901 1.191	19
##	theta[164,3]	2.021 1.201	19

##	theta[165,3]	3.596 1.308	13
##	theta[166,3]	2.539 1.274	14
##	theta[167,3]	2.274 1.218	17
##	theta[168,3]	2.543 1.272	14
##	theta[169,3]	1.983 1.155	22
##	theta[170,3]	3.739 1.319	13
##	theta[171,3]	1.100 1.035	80
##	theta[172,3]	1.138 1.092	36
##	theta[173,3]	2.543 1.292	14
##	theta[174,3]	1.523 1.014	240
##	theta[175,3]	0.974 1.068	45
##	theta[176,3]	1.414 1.016	240
##	theta[177,3]	1.735 1.040	81
##	theta[178,3]	2.037 1.150	22
##	theta[179,3]	1.121 1.028	120
##	theta[180,3]	1.563 1.179	20
##	theta[181,3]	3.585 1.279	15
##	theta[182,3]	1.510 1.069	55
##	theta[183,3]	1.873 1.009	720
##	theta[184,3]	1.519 1.293	14
##	theta[185,3]	1.865 1.204	18
##	theta[186,3]	2.016 1.215	18
##	theta[187,3]	2.024 1.208	17
##	theta[188,3]	1.450 1.079	41
##	theta[189,3]	2.570 1.284	14
##	theta[190,3]	2.666 1.298	13
##	theta[191,3]	2.099 1.088	35
##	theta[192,3]	1.988 1.217	17
##	theta[193,3]	1.372 1.239	16
##	theta[194,3]	0.984 1.016	180
##	theta[195,3]	1.684 1.201	18
##	theta[196,3]	2.124 1.203	18
##	theta[197,3]	1.782 1.200	19
##	theta[198,3]	2.602 1.281	14
##	theta[199,3]	2.664 1.236	16
##	theta[200,3]	2.233 1.091	35
##	theta[201,3]	2.512 1.279	14
##	theta[202,3]	1.553 1.155	22
##	theta[203,3]	1.348 1.103	31
##	theta[204,3]	1.662 1.226	16
##	theta[205,3]	1.376 1.007	670
##	theta[206,3]	0.460 1.094	36
##	theta[207,3]	1.941 1.070	44
##	theta[208,3]	2.520 1.105	31
##	theta[209,3]	2.155 1.092	34
##	theta[210,3]	2.627 1.280	14
##	theta[211,3]	1.818 1.153	23
##	theta[212,3]	1.662 1.015	320
##	theta[213,3]	2.531 1.268	14
##	theta[214,3]	1.750 1.202	18
##	theta[215,3]	2.111 1.210	17
##	theta[216,3]	2.637 1.270	14
##	theta[217,3]	3.160 1.303	13
##	theta[218,3]	1.535 1.174	20
		·-· •	

##	theta[219,3]	1.356	1.017	190
##	theta[220,3]		1.025	120
##	theta[221,3]		1.034	89
##	theta[222,3]		1.138	26
##	theta[223,3]	2.711	1.272	14
##	theta[224,3]	2.919	1.285	14
##	theta[225,3]	1.509	1.151	23
##	theta[226,3]	1.975	1.083	42
##	theta[227,3]	3.659	1.326	13
##	theta[228,3]	1.836	1.145	23
##	theta[229,3]	2.047	1.211	18
##	theta[230,3]	1.204	1.031	140
##	theta[231,3]	3.557	1.307	13
##	theta[232,3]	1.690	1.044	76
##	theta[233,3]	0.999	1.060	50
##	theta[234,3]	2.063	1.149	22
##	theta[235,3]	1.961	1.151	23
##	theta[236,3]	2.810	1.131	27
##	theta[237,3]	2.127	1.016	200
##	theta[238,3]	1.657	1.219	17
##	theta[239,3]	1.789	1.038	82
##	theta[240,3]	1.827	1.146	23
##	theta[241,3]		1.049	64
##	theta[242,3]		1.101	37
##	theta[243,3]		1.064	48
##	theta[244,3]		1.051	58
##	theta[245,3]		1.239	16
##	theta[246,3]		1.305	13
##	theta[247,3]		1.180	20
##	theta[248,3]		1.147	24
##	theta[249,3]		1.289	14
##	theta[250,3]		1.187	19
##	theta[251,3]		1.289	14
##	theta[252,3]		1.037	96
##	theta[253,3]		1.221	18
##	theta[254,3]		1.104	30
##	theta[255,3]		1.070	42
##	theta[256,3]		1.111	30
##	theta[257,3]		1.248	16
##	theta[258,3]		1.061	48
##	theta[259,3]		1.016	320
##	theta[260,3]		1.135	26
##	theta[261,3]		1.186	19
##	theta[262,3]		1.134	25
##	theta[263,3]		1.021	140
##	theta[264,3]		1.187	19
##	theta[265,3]		1.143	24
##	theta[266,3]		1.173	21
##	theta[267,3]		1.223	17
##	theta[268,3]		1.043	75
##	theta[269,3]		1.090	42
##	theta[270,3]		1.095	33
##	theta[271,3]		1.119	27
##	theta[271,3]		1.013	290
##	οπε οα [Ζ/Ζ, Ο]	1.307	1.013	250

	.1 . [070 0]	0 000 1 000	4.0
##	theta[273,3]	2.083 1.200	19
##	theta[274,3]	2.513 1.161	22
##	theta[275,3]	2.710 1.284	14
##	theta[276,3]	1.199 1.008	870
##	theta[277,3]	1.581 1.101	34
##	theta[278,3]	2.530 1.296	14
##	theta[279,3]	2.171 1.213	17
##	theta[280,3]	2.426 1.264	15
##	theta[281,3]	1.714 1.201	18
##	theta[282,3]	2.578 1.282	14
##	theta[283,3]	1.401 1.074	41
##	theta[284,3]	1.967 1.213	17
##	theta[285,3]	1.293 1.022	130
##	theta[286,3]	3.416 1.215	18
##	theta[287,3]	1.743 1.048	64
##	theta[288,3]	1.276 1.151	23
##	theta[289,3]	1.334 1.062	54
##	theta[290,3]	2.093 1.175	20
##	theta[291,3]	3.587 1.322	13
##	theta[292,3]	1.631 1.110	29
##	theta[293,3]	1.332 1.009	940
##	theta[294,3]	0.985 1.061	48
##	theta[295,3]	1.910 1.217	17
##	theta[296,3]	3.096 1.230	17
##	theta[297,3]	2.423 1.261	15
##	theta[298,3]	0.949 1.049	60
##	theta[299,3]	3.270 1.229	17
##	theta[300,3]	1.878 1.079	37
##	theta[301,3]	2.019 1.222	17
		1.797 1.183	
##	theta[302,3]		20
##	theta[303,3]	1.754 1.068	49
##	theta[304,3]	2.354 1.144	24
##	theta[305,3]	2.186 1.147	23
##	theta[306,3]	0.762 1.101	34
##	theta[307,3]	1.645 1.095	33
##	theta[308,3]	1.245 1.037	79
##	theta[309,3]	2.365 1.279	14
##	theta[310,3]	1.074 1.056	54
##	theta[311,3]	1.254 1.043	83
##	theta[312,3]	2.504 1.261	15
##	theta[313,3]	1.781 1.107	33
##	theta[314,3]	1.065 1.063	47
##	theta[315,3]	1.901 1.175	20
##	theta[316,3]	1.603 1.067	45
##	theta[317,3]	0.651 1.009	340
##	theta[318,3]	2.140 1.112	29
##	theta[319,3]	2.190 1.112	31
##	theta[320,3]	0.852 1.061	
	-		48
##	theta[321,3]	1.674 1.075	41
##	theta[322,3]	1.691 1.211	18
##	theta[323,3]	2.219 1.213	17
##	theta[324,3]	2.035 1.106	30
##	theta[325,3]	1.528 1.158	23
##	theta[326,3]	0.773 1.020	140

##	theta[327,3]	3.581	1.278	15
##	theta[328,3]	1.829	1.055	57
##	theta[329,3]	1.602	1.013	230
##	theta[330,3]	1.194	1.078	39
##	theta[331,3]	0.720	1.022	210
##	theta[332,3]	1.866	1.018	180
##	theta[333,3]	0.894	1.050	59
##	theta[334,3]	2.817	1.287	14
##	theta[335,3]	1.883	1.097	33
##	theta[336,3]	1.119	1.010	410
##	theta[337,3]	1.493	1.177	20
##	theta[338,3]	1.365	1.102	31
##	theta[339,3]	1.843	1.012	320
##	theta[340,3]	2.087	1.221	17
##	theta[341,3]	2.085	1.214	17
##	theta[342,3]	2.952	1.287	14
##	theta[343,3]	2.297	1.251	15
##	theta[344,3]	1.786	1.146	23
##	theta[345,3]	2.245	1.289	14
##	theta[346,3]	2.024	1.237	16
##	theta[347,3]	2.121	1.116	30
##	theta[348,3]	1.472	1.012	300
##	theta[349,3]	1.849	1.028	120
##	theta[350,3]	1.983	1.170	21
##	theta[351,3]	1.539	1.283	14
##	theta[352,3]	0.946	1.046	64
##	theta[353,3]	2.376	1.261	15
##	theta[354,3]	2.055	1.223	17
##	theta[355,3]	1.560	1.029	110
##	theta[356,3]	1.912	1.162	21
##	theta[357,3]	1.090	1.020	160
##	theta[358,3]	2.614	1.278	14
##	theta[359,3]	1.917	1.203	18
##	theta[360,3]	1.292	1.044	79
##	theta[361,3]	1.459	1.076	42
##	theta[362,3]	1.479	1.045	77
##	theta[363,3]	1.723	1.211	18
##	theta[364,3]	1.162	1.107	30
##	theta[365,3]	1.102	1.189	19
##	theta[366,3]	1.142	1.073	47
##	theta[367,3]	1.026	1.079	39
##	theta[368,3]	1.857	1.140	25
##	theta[369,3]	2.060	1.140	19
##	theta[370,3]	2.191	1.105	18
##	theta[371,3]	1.473	1.193	31
##	theta[372,3]	0.849	1.033	42
##	theta[373,3]	1.190	1.074	76
##	theta[374,3]	1.190	1.100	35
##				
	theta[375,3]	1.142	1.224	17
##	theta[376,3]	1.421	1.151	24
##	theta[377,3]	0.788	1.068	44 60
##	theta[378,3]	0.971	1.052	69
##	theta[379,3]	1.060	1.059	61
##	theta[380,3]	1.270	1.091	35

##	theta[381,3]	1.675	1.044	68
##	theta[382,3]	0.996	1.029	110
##	theta[383,3]	2.027	1.221	17
##	theta[384,3]	1.657	1.137	27
##	theta[385,3]	2.035	1.158	21
##	theta[386,3]	0.914	1.032	88
##	theta[387,3]	0.873	1.079	39
##	theta[388,3]	1.290	1.037	80
##	theta[389,3]	2.108	1.216	17
##	theta[390,3]	0.514	1.017	200
##	theta[391,3]	1.274	1.037	80
##	theta[392,3]	1.272	1.080	38
##	theta[393,3]	1.032	1.100	31
##	theta[394,3]	2.616	1.262	15
##	theta[395,3]	2.294	1.251	15
##	theta[396,3]	2.711	1.302	13
##	theta[397,3]	2.322	1.219	17
##	theta[398,3]	1.062	1.028	110
##	theta[399,3]	3.164	1.298	13
##	theta[400,3]	2.091	1.197	18
##	theta[401,3]	1.782	1.024	160
##	theta[402,3]	1.323	1.013	230
##	theta[403,3]	1.890	1.171	21
##	theta[404,3]	1.314	1.016	250
##	theta[405,3]	1.426	1.139	26
##	theta[406,3]	3.677	1.263	15
##	theta[407,3]	0.907	1.016	310
##	theta[408,3]	3.658	1.262	15
##	theta[409,3]	2.137	1.108	30
##	theta[410,3]	1.390	1.251	16
##	theta[411,3]	0.999	1.051	58
##	theta[412,3]	0.910	1.050	58
##	theta[413,3]	1.487	1.274	15
##	theta[414,3]	1.513	1.120	27
##	theta[415,3]	2.467	1.259	15
##	theta[416,3]	0.648	1.008	350
##	theta[417,3]	0.875	1.046	65
##	theta[418,3]	1.688	1.126	27
##	theta[419,3]	1.085	1.034	88
##	theta[420,3]	1.299	1.073	44
##	theta[421,3]	2.479	1.283	14
##	theta[422,3]	1.931	1.107	31
##	theta[423,3]	2.708	1.272	14
##	theta[424,3]	0.714	1.051	58
##	theta[425,3]	0.714	1.031	64
##	theta[426,3]	3.555	1.267	15
##	theta[427,3]	1.214	1.100	31
##	theta[428,3]	1.385	1.117	30
##	theta[428,3]	1.681	1.117	
##	theta[429,3]		1.173	21 73
##		1.414 2.661		73
	theta[431,3] theta[432,3]		1.278	14
##		1.923	1.162	21
##	theta[433,3]	1.834	1.157	22
##	theta[434,3]	1.556	1.163	22

```
## theta[435,3]
                      2.658 1.262
                                       15
## theta[436,3]
                                       15
                      3.585 1.276
## theta[437,3]
                      0.940 1.053
                                       56
## theta[438,3]
                      1.382 1.033
                                      110
## theta[439,3]
                      1.109 1.108
                                       30
## theta[440,3]
                      1.293 1.125
                                       26
## theta[441,3]
                      2.293 1.241
                                       15
## theta[442,3]
                      3.659 1.269
                                       15
   theta[443,3]
                      1.890 1.131
                                       26
  theta[444,3]
                      1.166 1.097
                                       36
  theta[445,3]
                      2.205 1.263
                                       15
  theta[446,3]
                      3.622 1.251
                                       16
##
   theta[447,3]
                      1.353 1.083
                                       39
   theta[448,3]
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                                       30
## theta[449,3]
                      2.207 1.034
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   theta[450,3]
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  theta[451,3]
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##
                      1.328 1.131
  theta[452,3]
                      1.205 1.025
                                      170
## theta[453,3]
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                                       20
## theta[454,3]
                      3.661 1.285
                                       14
## theta[455,3]
                      0.895 1.032
                                      100
## theta[456,3]
                      1.898 1.154
                                       22
## theta[457,3]
                      1.549 1.010
                                      590
  theta[458,3]
##
                      2.090 1.236
                                       16
  theta[459,3]
                      2.101 1.099
                                       32
  theta[460,3]
                      1.522 1.029
                                      110
## theta[461,3]
                      1.235 1.092
                                       40
##
  theta[462,3]
                      1.220 1.140
                                       24
   theta[463,3]
                      1.544 1.070
                                       45
## theta[464,3]
                      1.319 1.107
                                       32
  theta[465,3]
                      1.020 1.045
                                       71
##
  theta[466,3]
                      1.513 1.145
                                       25
   theta[467,3]
                      1.114 1.028
                                      120
## theta[468,3]
                                       17
                      2.243 1.221
  theta[469,3]
                      1.390 1.041
                                       83
## theta[470,3]
                      1.220 1.102
                                       34
## theta[471,3]
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                                       46
## theta[472,3]
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                                       22
## theta[473,3]
                      1.032 1.192
                                       19
## theta[474,3]
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                                       20
  theta[475,3]
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                                       13
  theta[476,3]
                      1.764 1.189
                                       19
##
  theta[477,3]
                      1.469 1.029
                                      130
   theta[478,3]
                      1.098 1.120
                                       28
## theta[479,3]
                      1.028 1.041
                                       71
## theta[480,3]
                                       24
                      0.897 1.155
                      1.811 1.159
##
  theta[481,3]
                                       22
   theta[482,3]
                      1.875 1.086
                                       37
  theta[483,3]
                      1.759 1.012
                                      330
  theta[484,3]
                      1.098 1.026
                                      120
  theta[485,3]
##
                      1.073 1.038
                                      83
## theta[486,3]
                      1.450 1.012
                                      280
## theta[487,3]
                      1.107 1.076
                                       41
## theta[488,3]
                      0.736 1.054
                                       55
```

```
## theta[489,3]
                      1.583 1.111
                                       32
## theta[490,3]
                      1.340 1.086
                                       36
                      3.640 1.280
  theta[491,3]
                                       15
## theta[492,3]
                      0.910 1.046
                                       72
##
  theta[493,3]
                      2.976 1.278
                                       14
   theta[494,3]
##
                      2.147 1.092
                                       34
  theta[495,3]
                      3.199 1.248
                                       16
  theta[496,3]
                      1.785 1.054
                                       60
   theta[497,3]
                      3.384 1.284
                                       14
   theta[498,3]
                      3.000 1.278
                                       14
   theta[499,3]
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                                       14
   theta[500,3]
                                       29
                      1.359 1.108
   theta[501,3]
                                      150
##
                      1.146 1.025
   theta [502,3]
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                                       42
   theta[503,3]
                      3.026 1.265
                                       14
   theta[504,3]
                      1.125 1.083
                                       38
   theta[505,3]
##
                      3.004 1.204
                                       19
   theta[506,3]
                      3.919 1.285
                                       14
  theta[507,3]
                      1.071 1.078
                                       38
## theta[508,3]
                      1.026 1.078
                                       40
##
  theta[509,3]
                      3.963 1.292
                                       14
  theta[510,3]
                      2.370 1.230
                                       17
  theta[511,3]
##
                      0.707 1.043
                                       67
   theta[512,3]
##
                      0.787 1.067
                                       45
   theta[513,3]
                      1.827 1.052
                                       59
   theta[514,3]
                      0.966 1.043
                                       68
  theta[515,3]
                      1.224 1.078
                                       41
##
   theta[516,3]
                      1.144 1.078
                                       40
   theta[517,3]
                      2.460 1.271
                                       14
   theta[518,3]
                      1.684 1.013
                                      380
   theta[519,3]
                      3.967 1.301
                                       14
##
   theta[520,3]
                      1.559 1.051
                                       62
   theta[521,3]
                      2.237 1.196
                                       19
   theta[522,3]
                      2.728 1.281
                                       14
   theta[523,3]
                      2.314 1.249
                                       15
   theta[524,3]
##
                      3.701 1.243
                                       16
  theta[525,3]
                      2.723 1.246
                                       16
## theta[526,3]
                      2.837 1.309
                                       13
## theta[527,3]
                      1.734 1.007
                                      630
  theta[528,3]
                                      500
##
                      1.755 1.007
   theta[529,3]
                      2.242 1.249
                                       15
   theta[530,3]
                      2.953 1.225
                                       17
   theta[531,3]
##
                      2.552 1.203
                                       18
   theta[532,3]
                      3.599 1.351
                                       12
   theta[533,3]
                      1.770 1.070
                                       48
   theta[534,3]
                      3.607 1.296
                                       14
##
   theta[535,3]
                      1.869 1.089
                                       38
   theta[536,3]
                      1.885 1.009
                                      450
   theta[1,4]
                      0.009 1.007
                                      470
   theta[2,4]
                      1.702 1.018
                                      160
##
   theta[3,4]
                      1.695 1.002
                                     2000
## theta[4,4]
                      3.073 1.011
                                      360
## theta[5,4]
                     -0.188 1.013
                                      260
## theta[6,4]
                     -0.227 1.031
                                      100
```

##	theta[7,4]	-0.307	1.025	130
##	theta[8,4]	-0.153	1.028	120
##	theta[9,4]	-0.366	1.015	210
##	theta[10,4]	-0.057	1.014	210
##	theta[11,4]	4.114	1.019	190
##	theta[12,4]	3.815	1.009	370
##	theta[13,4]	0.350	1.017	150
##	theta[14,4]	-0.217	1.014	230
##	theta[15,4]	-0.256	1.021	160
##	theta[16,4]	-0.349	1.011	240
##	theta[17,4]	0.894	1.008	400
##	theta[18,4]	-0.101	1.010	290
##	theta[19,4]	-0.336	1.022	170
##	theta[20,4]	-0.358	1.029	120
##	theta[21,4]	4.135	1.012	290
##	theta[22,4]	3.075	1.014	200
##	theta[23,4]	5.899	1.045	69
##	theta[24,4]	-0.270	1.010	300
##	theta[25,4]	2.922	1.006	500
##	theta[26,4]	-0.495	1.029	140
##	theta[27,4]	0.001	1.023	120
##	theta[28,4]	-0.490	1.038	100
##	theta[29,4]	-0.251	1.021	160
##	theta[30,4]	6.546	1.042	78
##	theta[31,4]	0.347	1.042	560
##	theta[31,4]	6.058	1.000	180
##	theta[32,4]	4.510	1.017	230
##	theta[34,4]	-0.071	1.013	770
##		4.319	1.004	240
	theta[35,4]			
##	theta[36,4]	3.972	1.002	1500
##	theta[37,4]	-0.175	1.006	450
##	theta[38,4]	3.771	1.002	1600
##	theta[39,4]	4.782	1.011	250
##	theta[40,4]	-0.154	1.010	300
##	theta[41,4]	-0.495	1.016	180
##	theta[42,4]	6.348	1.036	90
##	theta[43,4]	4.689	1.027	120
##	theta[44,4]	-0.303	1.023	160
##	theta[45,4]	3.172	1.009	370
##	theta[46,4]	1.134	1.002	3900
##	theta[47,4]	-0.316	1.012	250
##	theta[48,4]	-0.309	1.021	150
##	theta[49,4]	-0.060	1.020	150
##	theta[50,4]	0.043	1.009	390
##	theta[51,4]	0.033	1.029	100
##	theta[52,4]	2.360	1.004	1600
##	theta[53,4]	0.828	1.004	910
##	theta[54,4]	1.686	1.016	180
##	theta[55,4]	-0.405	1.009	390
##	theta[56,4]	6.715	1.034	91
##	theta[57,4]	4.365	1.021	190
##	theta[58,4]	-0.469	1.044	87
##	theta[59,4]	-0.093	1.016	250
##	theta[60,4]	2.693	1.011	280

##	theta[61,4]	-0.175		140
##	theta[62,4]	0.032	1.029	100
##	theta[63,4]	3.906	1.020	150
##	theta[64,4]	4.019	1.011	240
##	theta[65,4]	3.891	1.008	470
##	theta[66,4]	-0.224	1.011	310
##	theta[67,4]	4.025	1.007	470
##	theta[68,4]	-0.513	1.022	170
##	theta[69,4]	-0.509	1.023	140
##	theta[70,4]	0.026	1.015	190
##	theta[71,4]	-0.061	1.023	130
##	theta[72,4]	-0.001	1.025	120
##	theta[73,4]	-0.337	1.050	64
##	theta[74,4]	4.127	1.031	120
##	theta[75,4]	-0.323	1.025	130
##	theta[76,4]	-0.492	1.025	130
##	theta[77,4]	0.740	1.005	550
##	theta[78,4]	2.819	1.014	270
##	theta[79,4]	6.210	1.039	76
##	theta[80,4]	-0.055	1.011	320
##	theta[81,4]	-0.207	1.008	500
##	theta[82,4]	3.010	1.011	400
##	theta[83,4]	-0.501	1.027	120
##	theta[84,4]	2.371	1.005	1200
##	theta[85,4]	3.199	1.004	890
##	theta[86,4]	1.076	1.004	3000
##	theta[87,4]	1.156	1.001	4000
##	theta[88,4]	1.021	1.001	4000
##	theta[89,4]	6.118	1.033	100
##	theta[90,4]	4.058	1.020	180
##	theta[91,4]	3.331	1.013	230
##	theta[92,4]	-0.334	1.013	220
##	theta[93,4]	4.585	1.016	220
##	theta[94,4]	4.773	1.012	230
##	theta[95,4]	6.229	1.021	140
##	theta[96,4]	1.763	1.019	140
##	theta[97,4]	-0.189	1.013	360
##	theta[98,4]	-0.410	1.013	250
##	theta[99,4]	4.901	1.016	210
##	theta[100,4]	-0.105	1.015	190
##	theta[101,4]	0.511	1.020	140
##	theta[102,4]	5.445	1.028	120
##	theta[103,4]	-0.072	1.014	220
##	theta[104,4]	2.012	1.031	95
##	theta[105,4]	2.039	1.008	460
##	theta[106,4]	1.028	1.002	4000
##	theta[107,4]	2.535	1.002	4000
##	theta[108,4]	6.334	1.038	110
##	theta[109,4]	3.311	1.014	190
##	theta[110,4]	3.238	1.004	1200
##	theta[111,4]	-0.271	1.014	240
##	theta[112,4]	-0.467	1.030	110
##	theta[113,4]	0.441	1.007	400
##	theta[114,4]	-0.324	1.015	240
••	 ,			

```
## theta[115,4]
                      1.532 1.002
                                    2100
## theta[116,4]
                      2.043 1.014
                                     190
## theta[117,4]
                     -0.463 1.034
                                      92
## theta[118,4]
                     -0.293 1.012
                                     280
## theta[119,4]
                     -0.085 1.006
                                     810
  theta[120,4]
                     -0.515 1.027
                                     120
## theta[121,4]
                      0.190 1.020
                                     150
## theta[122,4]
                     -0.307 1.010
                                     270
   theta[123,4]
                     -0.246 1.022
                                     130
   theta[124,4]
                      6.223 1.021
                                     170
  theta[125,4]
                      3.234 1.015
                                     260
                                    4000
   theta[126,4]
                      1.272 1.001
   theta[127,4]
                      4.463 1.018
                                     180
   theta[128,4]
                      0.082 1.001
                                     2700
  theta[129,4]
                     -0.168 1.006
                                     560
   theta[130,4]
                      3.436 1.020
                                     140
   theta[131,4]
                     -0.331 1.016
                                     240
   theta[132,4]
                      0.732 1.003
                                    1100
  theta[133,4]
                      0.195 1.021
                                     150
## theta[134,4]
                     -0.331 1.025
                                     120
##
  theta[135,4]
                      0.013 1.029
                                     120
## theta[136,4]
                      4.989 1.021
                                     160
## theta[137,4]
                      1.344 1.005
                                     560
  theta[138,4]
##
                      4.990 1.016
                                     220
                     -0.008 1.031
  theta[139,4]
                                     100
  theta[140,4]
                      5.573 1.018
                                     180
## theta[141,4]
                      3.321 1.010
                                     420
##
   theta[142,4]
                      1.331 1.005
                                     540
   theta[143,4]
                     -0.227 1.020
                                     160
  theta[144,4]
                      0.018 1.037
                                      84
   theta[145,4]
                     -0.280 1.022
                                     170
   theta[146,4]
                      1.863 1.012
                                     220
   theta[147,4]
                      5.424 1.016
                                     230
  theta[148,4]
                     -0.505 1.029
                                     110
   theta[149,4]
                      1.575 1.014
                                     240
## theta[150,4]
                      6.116 1.029
                                     120
## theta[151,4]
                      4.640 1.013
                                     230
## theta[152,4]
                      0.912 1.003
                                    1100
## theta[153,4]
                      1.341 1.004
                                    1000
## theta[154,4]
                      4.819 1.019
                                     240
  theta[155,4]
                      2.013 1.008
                                     340
  theta[156,4]
                      4.807 1.024
                                     140
##
   theta[157,4]
                      2.171 1.015
                                     200
   theta[158,4]
                                     200
                     -0.279 1.014
  theta[159,4]
                      1.672 1.008
                                     410
  theta[160,4]
                      4.366 1.013
                                     270
##
   theta[161,4]
                      4.071 1.009
                                     480
   theta[162,4]
                      3.454 1.023
                                     190
                      4.880 1.011
  theta[163,4]
                                     310
   theta[164,4]
                      5.783 1.019
                                     160
##
   theta[165,4]
                     -0.473 1.027
                                     120
## theta[166,4]
                     -0.017 1.021
                                     150
## theta[167,4]
                     -0.492 1.013
                                     280
## theta[168,4]
                      6.176 1.016
                                     180
```

```
## theta[169,4]
                      3.936 1.027
                                      170
                                      130
## theta[170,4]
                     -0.438 1.021
## theta[171,4]
                     -0.365 1.013
                                      220
## theta[172,4]
                      1.519 1.018
                                      160
##
  theta[173,4]
                      6.169 1.031
                                      110
  theta[174,4]
##
                     -0.034 1.011
                                      270
  theta[175,4]
                     -0.116 1.012
                                      260
## theta[176,4]
                     -0.292 1.012
                                      270
   theta[177,4]
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                                      370
   theta[178,4]
                      1.644 1.003
                                    1800
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                      1.685 1.014
                                      230
   theta[180,4]
                      1.247 1.008
                                      360
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                     -0.066 1.021
                                      150
##
   theta[182,4]
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                                      280
  theta[183,4]
                      2.612 1.007
                                      610
   theta[184,4]
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                                      190
   theta[185,4]
                      4.393 1.029
                                      120
   theta[186,4]
                      5.212 1.019
                                      180
  theta[187,4]
                      1.432 1.006
                                     510
## theta[188,4]
                     -0.320 1.016
                                      230
##
  theta[189,4]
                      6.330 1.028
                                      110
## theta[190,4]
                      6.519 1.033
                                      110
## theta[191,4]
                      4.260 1.016
                                      220
  theta[192,4]
##
                      4.435 1.015
                                      200
  theta[193,4]
                      4.887 1.025
                                      130
  theta[194,4]
                     -0.364 1.009
                                      310
  theta[195,4]
                     -0.014 1.017
                                      170
##
   theta[196,4]
                      4.379 1.020
                                      170
   theta[197,4]
                                      170
                      4.186 1.021
   theta[198,4]
                      6.203 1.036
                                      100
   theta[199,4]
                      4.613 1.033
                                      110
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                      1.038 1.007
                                      360
   theta[201,4]
                      5.966 1.008
                                      380
  theta[202,4]
                      1.953 1.018
                                      170
   theta[203,4]
                      3.892 1.010
                                      390
##
  theta[204,4]
                      1.412 1.006
                                      530
  theta[205,4]
                     -0.308 1.011
                                      370
## theta[206,4]
                     -0.161 1.007
                                      540
## theta[207,4]
                      3.148 1.015
                                      220
## theta[208,4]
                                      720
                      3.157 1.005
  theta[209,4]
                      3.734 1.006
                                      460
  theta[210,4]
                      6.076 1.031
                                      110
   theta[211,4]
##
                     -0.149 1.007
                                      400
   theta[212,4]
                      1.752 1.007
                                      400
  theta[213,4]
                      6.094 1.025
                                      130
  theta[214,4]
                      2.030 1.020
                                      160
##
   theta[215,4]
                      1.428 1.013
                                      210
   theta[216,4]
                      6.172 1.024
                                      150
  theta[217,4]
                     -0.290 1.029
                                      100
   theta[218,4]
                      1.188 1.004
                                      700
##
   theta[219,4]
                      3.856 1.012
                                      360
## theta[220,4]
                      1.037 1.004
                                      920
## theta[221,4]
                     -0.104 1.007
                                      570
## theta[222,4]
                      3.306 1.016
                                      220
```

```
## theta[223,4]
                      6.079 1.022
                                      150
## theta[224,4]
                     -0.475 1.019
                                      160
  theta[225,4]
                      3.893 1.022
                                      150
## theta[226,4]
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                                      330
                     -0.583 1.036
  theta[227,4]
                                      89
  theta[228,4]
                     -0.241 1.027
                                      130
  theta[229,4]
                      4.385 1.020
                                      190
## theta[230,4]
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                                      250
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                                      77
   theta[232,4]
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                                      240
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                                      250
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                                     1200
   theta[235,4]
                      1.130 1.004
                                      840
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                      2.847 1.003
                                     4000
   theta[237,4]
                      2.944 1.007
                                      500
   theta[238,4]
                      1.367 1.008
                                      400
   theta[239,4]
                                      420
                     -0.226 1.009
   theta[240,4]
                      1.034 1.004
                                     820
  theta[241,4]
                      3.763 1.005
                                    1000
## theta[242,4]
                      3.006 1.022
                                      150
  theta[243,4]
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                                      230
## theta[244,4]
                     -0.341 1.008
                                      390
## theta[245,4]
                      5.715 1.011
                                      340
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                     -0.372 1.023
                                     140
  theta[247,4]
                      1.215 1.004
                                      870
  theta[248,4]
                      4.246 1.016
                                      180
  theta[249,4]
                     -0.211 1.028
                                      110
##
   theta[250,4]
                     -0.251 1.014
                                      210
   theta[251,4]
                     -0.174 1.031
                                      110
  theta[252,4]
                      3.660 1.015
                                      240
   theta[253,4]
                      0.217 1.020
                                      150
   theta[254,4]
                      3.953 1.011
                                      390
   theta[255,4]
                      0.321 1.020
                                      150
  theta[256,4]
                      1.286 1.003
                                     1400
   theta[257,4]
                      6.223 1.018
                                     180
  theta[258,4]
                      4.438 1.005
                                      660
  theta[259,4]
                      2.376 1.008
                                      390
## theta[260,4]
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                                      900
## theta[261,4]
                     -0.220 1.024
                                      160
## theta[262,4]
                      0.102 1.003
                                    1100
  theta[263,4]
                     -0.329 1.018
                                      250
  theta[264,4]
                     -0.364 1.019
                                      160
   theta[265,4]
                     -0.258 1.020
                                      170
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                                      150
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                                      330
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                                    1500
##
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                                      330
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                      3.610 1.006
                                      640
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                     -0.053 1.033
                                      99
   theta[272,4]
                      1.048 1.002
                                    2300
##
   theta[273,4]
                      5.674 1.015
                                      200
## theta[274,4]
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                                      690
## theta[275,4]
                      6.166 1.027
                                      130
## theta[276,4]
                      1.236 1.001
```

```
## theta[277,4]
                      4.365 1.017
                                      190
## theta[278,4]
                      6.334 1.029
                                      130
  theta[279,4]
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                                      230
## theta[280,4]
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                                      110
##
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                                      150
   theta[282,4]
##
                      6.037 1.017
                                      210
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                                      350
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                                      270
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                                    1700
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                                      330
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                      1.846 1.011
                                      280
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                                      620
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                                     2600
                      3.549 1.027
   theta[290,4]
                                      120
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                                      200
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                                    1300
   theta[293,4]
                      0.078 1.015
                                      220
   theta[294,4]
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                                      290
  theta[295,4]
                      4.392 1.022
                                      140
  theta[296,4]
                     -0.047 1.034
                                      100
##
  theta[297,4]
                     -0.030 1.027
                                      130
  theta[298,4]
                     -0.113 1.022
                                      150
  theta[299,4]
##
                      0.944 1.007
                                      400
   theta[300,4]
                      3.905 1.006
                                      630
##
   theta[301,4]
                      4.277 1.012
                                      220
   theta[302,4]
                      4.244 1.025
                                      130
  theta[303,4]
                      3.341 1.028
                                      140
##
   theta[304,4]
                      3.032 1.001
                                    4000
   theta[305,4]
                      4.640 1.016
                                      180
   theta[306,4]
                      3.680 1.027
                                      120
   theta[307,4]
                      1.153 1.003
                                     1100
   theta[308,4]
                      0.162 1.012
                                      250
   theta[309,4]
                     -0.016 1.036
                                      87
   theta[310,4]
                     -0.329 1.017
                                      190
   theta[311,4]
                      3.708 1.010
                                      320
##
   theta[312,4]
                      0.051 1.026
                                      120
  theta[313,4]
                      3.387 1.025
                                      160
## theta[314,4]
                      0.711 1.003
                                     1300
## theta[315,4]
                      3.535 1.017
                                      180
  theta[316,4]
                                      930
##
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  theta[317,4]
                     -0.350 1.013
                                      230
   theta[318,4]
                      4.374 1.010
                                      300
   theta[319,4]
##
                      3.527 1.011
                                      290
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                     -0.158 1.012
                                      250
   theta[321,4]
                      2.808 1.007
                                      680
   theta[322,4]
                                      250
                      4.039 1.012
##
   theta[323,4]
                      4.427 1.016
                                      200
   theta[324,4]
                      3.201 1.011
                                      290
   theta[325,4]
                      4.109 1.031
                                      130
   theta[326,4]
                     -0.321 1.013
                                      280
##
   theta[327,4]
                     -0.156 1.027
                                      120
  theta[328,4]
                      2.972 1.012
                                      290
## theta[329,4]
                      3.225 1.007
                                      800
## theta[330,4]
                      0.905 1.006
                                     540
```

```
## theta[331,4]
                      0.581 1.002
                                    4000
## theta[332,4]
                      3.030 1.003
                                    1700
                     -0.300 1.009
  theta[333,4]
                                      340
  theta[334,4]
                     -0.485 1.027
                                      140
##
   theta[335,4]
                      3.025 1.013
                                      240
   theta[336,4]
##
                      2.398 1.005
                                     1000
  theta[337,4]
                     -0.009 1.025
                                      120
  theta[338,4]
                     -0.325 1.013
                                      240
   theta[339,4]
                      2.726 1.006
                                      480
   theta[340,4]
                      4.348 1.021
                                      140
   theta[341,4]
                      4.438 1.015
                                      190
                                      100
   theta[342,4]
                     -0.423 1.032
   theta[343,4]
                     -0.037 1.023
                                      130
   theta[344,4]
                      1.235 1.005
                                      620
   theta[345,4]
                     -0.035 1.027
                                      110
   theta[346,4]
                      4.145 1.029
                                      110
                                    1000
   theta[347,4]
                      1.781 1.004
   theta[348,4]
                      3.876 1.003
                                     1700
  theta[349,4]
                      0.789 1.002
                                    1700
## theta[350,4]
                      4.376 1.017
                                      220
##
  theta[351,4]
                      5.624 1.030
                                      120
  theta[352,4]
                     -0.313 1.008
                                      440
  theta[353,4]
                      0.060 1.027
                                      110
   theta[354,4]
##
                      4.475 1.016
                                      180
   theta[355,4]
                      2.409 1.009
                                      450
   theta[356,4]
                      3.643 1.015
                                      240
   theta[357,4]
                      1.151 1.004
                                      950
##
   theta[358,4]
                      6.161 1.040
                                      85
   theta[359,4]
                                      170
                      4.496 1.018
   theta[360,4]
                      3.393 1.009
                                      370
   theta[361,4]
                      2.090 1.015
                                      200
   theta[362,4]
                      3.782 1.011
                                      300
   theta[363,4]
                      4.290 1.022
                                      150
   theta[364,4]
                     -0.089 1.011
                                      310
   theta[365,4]
                      1.027 1.004
                                      720
##
   theta[366,4]
                      3.456 1.016
                                      200
  theta[367,4]
                     -0.349 1.011
                                      320
## theta[368,4]
                      5.161 1.013
                                      220
## theta[369,4]
                      5.628 1.018
                                      200
  theta[370,4]
                      4.386 1.012
                                      230
##
   theta[371,4]
                      0.843 1.002
                                     1900
   theta[372,4]
                     -0.200 1.012
                                      240
##
   theta[373,4]
                      1.326 1.007
                                      500
   theta[374,4]
                                      270
                      3.679 1.011
   theta[375,4]
                      3.854 1.021
                                      170
   theta[376,4]
                                      260
                      4.247 1.011
##
   theta[377,4]
                     -0.150 1.009
                                      360
   theta[378,4]
                      2.898 1.008
                                      370
   theta[379,4]
                      3.515 1.012
                                      330
   theta[380,4]
                      0.252 1.021
                                      140
##
   theta[381,4]
                      2.318 1.006
                                      710
  theta[382,4]
                      1.416 1.004
                                      760
## theta[383,4]
                      4.211 1.021
                                      160
## theta[384,4]
                      5.022 1.013
                                      220
```

```
## theta[385,4]
                      3.947 1.017
                                     200
                                     470
## theta[386,4]
                      2.895 1.008
  theta[387,4]
                     -0.154 1.014
                                     230
## theta[388,4]
                      2.899 1.009
                                     500
##
  theta[389,4]
                      4.448 1.012
                                     270
   theta[390,4]
##
                     -0.148 1.019
                                     240
  theta[391,4]
                      1.447 1.007
                                     450
  theta[392,4]
                     -0.351 1.014
                                     240
   theta[393,4]
                     -0.092 1.015
                                     230
   theta[394,4]
                      6.093 1.024
                                     130
   theta[395,4]
                      0.035 1.024
                                     130
   theta[396,4]
                      6.245 1.033
                                     110
   theta[397,4]
                      0.035 1.014
                                     190
                      2.942 1.008
   theta[398,4]
                                     410
  theta[399,4]
                                      97
                     -0.326 1.036
   theta[400,4]
                      1.682 1.016
                                     190
   theta[401,4]
##
                      3.094 1.006
                                     650
   theta[402,4]
                      3.483 1.012
                                     350
  theta[403,4]
                      3.891 1.014
                                     260
## theta[404,4]
                     -0.135 1.011
                                     500
##
  theta[405,4]
                      3.494 1.019
                                     160
## theta[406,4]
                     -0.046 1.012
                                     250
## theta[407,4]
                     -0.183 1.006
                                     500
   theta[408,4]
                     -0.127 1.030
                                     110
##
  theta[409,4]
                      4.620 1.012
                                     320
  theta[410,4]
                      5.371 1.035
                                     100
  theta[411,4]
                      0.821 1.003
                                     1100
##
   theta[412,4]
                     -0.322 1.007
                                     390
   theta[413,4]
                      5.494 1.024
                                     150
  theta[414,4]
                     -0.351 1.010
                                     310
   theta[415,4]
                     -0.044 1.019
                                     150
##
   theta[416,4]
                     -0.398 1.014
                                     240
   theta[417,4]
                     -0.167 1.020
                                     160
  theta[418,4]
                     -0.091 1.027
                                     120
   theta[419,4]
                      2.910 1.007
                                     450
  theta[420,4]
##
                     -0.049 1.021
                                     150
## theta[421,4]
                     -0.009 1.029
                                     110
## theta[422,4]
                      3.328 1.019
                                     170
## theta[423,4]
                      0.084 1.034
                                      83
## theta[424,4]
                                     220
                     -0.159 1.015
  theta[425,4]
                                     270
                     -0.180 1.012
  theta[426,4]
                     -0.075 1.026
                                     120
   theta[427,4]
##
                      0.769 1.005
                                     610
   theta[428,4]
                      3.697 1.024
                                     170
  theta[429,4]
                      3.955 1.020
                                     170
  theta[430,4]
                                     310
                     -0.233 1.010
##
   theta[431,4]
                      6.235 1.029
                                     110
   theta[432,4]
                      3.051 1.018
                                     200
   theta[433,4]
                      3.003 1.017
                                     180
   theta[434,4]
                      4.140 1.021
                                     160
   theta[435,4]
##
                     -0.299 1.031
                                      99
## theta[436,4]
                     -0.133 1.020
                                     150
## theta[437,4]
                     -0.278 1.011
                                     390
## theta[438,4]
                      3.075 1.006
                                     520
```

```
## theta[439,4]
                      0.895 1.002
                                    1500
## theta[440,4]
                      1.167 1.005
                                     820
                      0.052 1.021
## theta[441,4]
                                      180
## theta[442,4]
                     -0.101 1.032
                                      110
##
  theta[443,4]
                      2.682 1.015
                                      240
  theta[444,4]
##
                      4.099 1.010
                                      410
  theta[445,4]
                      5.075 1.019
                                      200
## theta[446,4]
                     -0.148 1.029
                                      100
   theta[447,4]
                      3.668 1.021
                                      180
   theta[448,4]
                      3.869 1.024
                                      140
  theta[449,4]
                      2.443 1.002
                                     1400
   theta[450,4]
                     -0.354 1.019
                                      180
   theta[451,4]
                     -0.301 1.024
                                      150
##
                     -0.131 1.016
   theta[452,4]
                                      170
   theta[453,4]
                                      180
                      3.809 1.018
   theta[454,4]
                     -0.136 1.023
                                      140
   theta[455,4]
##
                      0.034 1.019
                                      170
   theta[456,4]
                      4.060 1.013
                                      250
  theta[457,4]
                      1.507 1.006
                                     520
## theta[458,4]
                      4.025 1.023
                                      160
##
  theta[459,4]
                      3.869 1.006
                                      600
## theta[460,4]
                      3.783 1.016
                                      220
## theta[461,4]
                      3.963 1.013
                                      260
   theta[462,4]
                                      290
##
                     -0.109 1.013
##
  theta[463,4]
                      0.366 1.012
                                      270
  theta[464,4]
                      1.804 1.018
                                      170
  theta[465,4]
                      3.305 1.013
                                      290
##
   theta[466,4]
                      3.445 1.017
                                      190
   theta[467,4]
                      0.528 1.005
                                      630
   theta[468,4]
                      4.340 1.035
                                      110
   theta[469,4]
                      3.815 1.014
                                      290
##
   theta[470,4]
                      3.323 1.015
                                      230
   theta[471,4]
                      3.983 1.008
                                      440
  theta[472,4]
                      3.875 1.011
                                      340
   theta[473,4]
                      3.215 1.014
                                      260
  theta[474,4]
##
                      3.361 1.021
                                      140
## theta[475,4]
                     -0.380 1.044
                                       77
## theta[476,4]
                      4.786 1.017
                                     210
## theta[477,4]
                      3.786 1.007
                                      490
## theta[478,4]
                      1.200 1.005
                                     830
  theta[479,4]
                      1.414 1.002
                                     1800
  theta[480,4]
                      4.181 1.015
                                      190
   theta[481,4]
##
                      3.671 1.007
                                      390
   theta[482,4]
                     -0.135 1.008
                                      500
  theta[483,4]
                      2.405 1.007
                                      420
  theta[484,4]
                      2.911 1.009
                                      420
##
   theta[485,4]
                      2.935 1.009
                                      340
   theta[486,4]
                     -0.275 1.007
                                      440
   theta[487,4]
                      1.014 1.003
                                     1200
   theta[488,4]
                     -0.192 1.010
                                      280
   theta[489,4]
##
                      4.333 1.021
                                      160
## theta[490,4]
                      0.688 1.005
                                      610
## theta[491,4]
                     -0.195 1.028
                                      110
## theta[492,4]
                      3.377 1.007
                                      460
```

```
## theta[493,4]
                     -0.473 1.013
                                      270
## theta[494,4]
                      3.798 1.015
                                      260
  theta[495,4]
                     -0.052 1.026
                                      120
  theta[496,4]
                      3.615 1.019
                                      190
##
   theta[497,4]
                     -0.230 1.016
                                      190
   theta[498,4]
##
                      0.003 1.027
                                      110
  theta[499,4]
                     -0.200 1.010
                                      300
  theta[500,4]
                     -0.353 1.017
                                      210
   theta[501,4]
                      3.376 1.009
                                      390
   theta[502,4]
                     -0.345 1.020
                                      170
  theta[503,4]
                      0.056 1.036
                                      94
   theta[504,4]
                                      300
                     -0.130 1.013
   theta[505,4]
                     -0.255 1.010
                                      420
##
   theta [506,4]
                     -0.218 1.030
                                      100
   theta[507,4]
                                      720
                     -0.351 1.005
   theta[508,4]
                     -0.296 1.009
                                      350
   theta[509,4]
##
                     -0.144 1.018
                                      170
   theta[510,4]
                      0.042 1.030
                                      100
  theta[511,4]
                     -0.169 1.017
                                      200
## theta[512,4]
                     -0.147 1.016
                                      190
##
  theta[513,4]
                      3.727 1.005
                                      530
  theta[514,4]
                     -0.339 1.011
                                      310
  theta[515,4]
##
                     -0.262 1.017
                                      220
   theta[516,4]
##
                     -0.156 1.014
                                      220
                      0.115 1.049
##
   theta[517,4]
                                       68
   theta[518,4]
                      2.363 1.012
                                      240
   theta[519,4]
                     -0.195 1.024
                                      140
##
   theta[520,4]
                      3.613 1.014
                                      240
   theta[521,4]
                     -0.330 1.020
                                      140
   theta[522,4]
                     -0.213 1.023
                                      140
   theta [523,4]
                     -0.320 1.020
                                      160
   theta[524,4]
                     -0.084 1.015
                                      180
   theta[525,4]
                     -0.341 1.022
                                      130
   theta[526,4]
                     -0.257 1.028
                                      110
   theta[527,4]
                      2.837 1.010
                                      500
   theta[528,4]
##
                      2.909 1.008
                                     520
  theta[529,4]
                     -0.350 1.027
                                      130
## theta[530,4]
                      0.207 1.031
                                      96
## theta[531,4]
                                      140
                     -0.318 1.025
  theta[532,4]
##
                     -0.488 1.056
                                       59
                      4.089 1.015
                                      220
  theta[533,4]
   theta[534,4]
                     -0.434 1.032
                                      100
##
   theta[535,4]
                      3.868 1.014
                                      250
   theta[536,4]
                      3.445 1.015
                                      220
  theta[1,5]
                      2.434 1.015
                                      180
## theta[2,5]
                      4.153 1.081
                                       39
##
   theta[3,5]
                      0.547 1.015
                                      210
   theta[4,5]
                      1.756 1.030
                                       91
   theta[5,5]
                      0.795 1.037
                                       77
   theta[6,5]
                      0.045 1.046
                                       63
##
   theta[7,5]
                      0.102 1.087
                                       36
## theta[8,5]
                      0.852 1.068
                                       45
## theta[9,5]
                      0.052 1.039
                                       72
## theta[10,5]
                      0.033 1.050
```

##	theta[11,5]	0.263	1.008	360
##	theta[12,5]	1.381	1.016	180
##	theta[13,5]	0.955	1.016	170
##	theta[14,5]	0.877	1.046	62
##	theta[15,5]	0.057	1.038	81
##	theta[16,5]	1.035	1.016	170
##	theta[17,5]	0.712	1.043	68
##	theta[18,5]	0.055	1.058	52
##	theta[19,5]	0.033	1.021	130
##			1.021	53
	theta[20,5]	0.190		
##	theta[21,5]	1.521	1.050	55
##	theta[22,5]	1.738		82
##	theta[23,5]	4.613		36
##	theta[24,5]	2.089	1.009	350
##	theta[25,5]	1.056	1.005	920
##	theta[26,5]	0.108	1.075	40
##	theta[27,5]	-0.032	1.050	57
##	theta[28,5]	0.158	1.083	37
##	theta[29,5]	0.013		110
##	theta[30,5]	4.503	1.068	44
##	theta[31,5]	1.427	1.057	50
##	theta[32,5]	4.746	1.124	27
##	theta[33,5]	3.820	1.041	71
	· · · · · · · · · · · · · · · · · · ·			
##	theta[34,5]	1.909	1.044	65
##	theta[35,5]	2.289	1.054	52
##	theta[36,5]	0.548	1.003	2900
##	theta[37,5]	1.446	1.003	1100
##	theta[38,5]	0.388	1.007	630
##	theta[39,5]	1.937	1.060	48
##	theta[40,5]	-0.119	1.033	91
##	theta[41,5]	0.107	1.081	37
##	theta[42,5]	4.522	1.111	29
##	theta[43,5]	2.789	1.101	31
##	theta[44,5]	0.261	1.044	68
##	theta[45,5]	3.193		50
##	theta[46,5]	2.627	1.021	130
##	theta[47,5]	0.067	1.022	140
##	theta[48,5]			270
		1.262	1.010	
##	theta[49,5]	-0.047		38
##	theta[50,5]	3.022	1.036	82
##	theta[51,5]	0.094	1.112	29
##	theta[52,5]	-0.053	1.048	62
##	theta[53,5]	0.422	1.032	91
##	theta[54,5]	3.105	1.074	41
##	theta[55,5]	1.832	1.010	270
##	theta[56,5]	4.695	1.129	26
##	theta[57,5]	3.125	1.086	35
##	theta[58,5]	0.103	1.065	46
##	theta[59,5]	-0.077	1.028	100
##	theta[60,5]	2.312	1.058	51
##	theta[61,5]	0.131	1.058	51
##	theta[62,5]	0.032	1.087	35
##	theta[63,5]	0.809	1.023	120
			1.023	
##	theta[64,5]	1.492	1.059	49

##	theta[65,5]	0.439	1.006	460
##	theta[66,5]	2.139	1.006	460
##	theta[67,5]	0.423	1.007	400
##	theta[68,5]	0.057	1.085	36
##	theta[69,5]	0.129	1.105	30
##	theta[70,5]	0.646	1.020	130
##	theta[71,5]	-0.130	1.036	81
##	theta[72,5]	-0.019	1.040	74
##	theta[73,5]	0.220	1.067	45
##	theta[74,5]	1.272	1.041	68
##	theta[75,5]	0.185	1.033	86
##	theta[76,5]	0.195	1.114	28
##	theta[77,5]	-0.138	1.027	110
##	theta[78,5]	2.236	1.057	51
##	theta[79,5]	4.730	1.080	39
##	theta[80,5]	2.987	1.027	110
##	theta[81,5]	0.677	1.047	65
##	theta[82,5]	2.257	1.030	91
##	theta[83,5]	0.132	1.078	39
##	theta[84,5]	0.083	1.019	170
##	theta[85,5]	0.346	1.011	270
##	theta[86,5]	2.266	1.029	99
##	theta[87,5]	2.618	1.032	90
##	theta[88,5]	3.690	1.050	58
##	theta[89,5]	4.649	1.080	39
##	theta[90,5]	3.481	1.070	44
##	theta[91,5]	0.632	1.007	370
##	theta[92,5]	0.121	1.048	62
##	theta[93,5]	2.788	1.086	35
##	theta[94,5]	3.005	1.082	37
##	theta[95,5]	4.736	1.092	33
##	theta[96,5]	4.042	1.081	37
##	theta[97,5]	1.393	1.012	230
##	theta[98,5]	0.061	1.055	54
##	theta[99,5]	2.406	1.066	44
##	theta[100,5]	0.795	1.054	56
##	theta[101,5]	-0.112	1.046	64
##	theta[102,5]	2.953	1.106	30
##	theta[103,5]	-0.148	1.047	66
##	theta[104,5]	3.975	1.071	43
##	theta[105,5]	1.556	1.013	220
##	theta[106,5]	0.152	1.007	440
##	theta[107,5]	0.734	1.050	57
##	theta[108,5]	4.479	1.073	42
##	theta[109,5]	0.410	1.006	430
##	theta[110,5]	1.641	1.025	110
##	theta[111,5]	0.284	1.061	50
##	theta[112,5]	0.143	1.080	39
##	theta[113,5]	0.475	1.005	690
##	theta[114,5]	2.027	1.024	120
##	theta[115,5]	1.143	1.002	4000
##	theta[116,5]	3.976	1.090	34
##	theta[117,5]	0.015	1.065	46
##	theta[118,5]	1.715	1.007	410
		220		

##	theta[119,5]	2.292 1.047	62
##	theta[120,5]	0.168 1.070	44
##	theta[121,5]	0.774 1.074	41
##	theta[122,5]	0.326 1.017	150
##	theta[123,5]	0.091 1.041	72
##	theta[124,5]	4.680 1.106	31
##	theta[125,5]	2.101 1.040	72
##	theta[126,5]	3.588 1.074	42
##	theta[127,5]	3.526 1.073	42
##	theta[128,5]	3.825 1.070	45
##	theta[129,5]	1.540 1.006	510
##	theta[130,5]	3.056 1.028	99
##	theta[131,5]	0.771 1.024	120
##	theta[132,5]	1.552 1.029	91
##	theta[133,5]	0.348 1.029	110
##	theta[134,5]	0.179 1.086	36
##	theta[135,5]	0.109 1.075	41
##	theta[136,5]	2.933 1.083	36
##	theta[137,5]	1.633 1.013	240
##	theta[138,5]	2.648 1.105	29
##	theta[139,5]	-0.017 1.081	38
##	theta[140,5]	2.027 1.091	33
##	theta[141,5]	0.885 1.005	740
##	theta[142,5]	2.959 1.062	48
##	theta[143,5]	0.239 1.037	78
##	theta[144,5]	1.008 1.036	76
##	theta[145,5]	0.880 1.020	130
##	theta[146,5]	1.932 1.042	68
##	theta[147,5]	2.032 1.073	41
##	theta[148,5]	0.218 1.082	36
##	theta[149,5]	1.599 1.060	47
##	theta[150,5]	4.747 1.080	38
##	theta[151,5]	2.105 1.044	64
##	theta[152,5]	4.041 1.072	44
##	theta[153,5]	2.253 1.078	39
##	theta[154,5]	2.348 1.055	52
##	theta[155,5]	2.318 1.026	100
##	theta[156,5]		
##	theta[157,5]	2.738 1.092 1.525 1.039	33 71
##	theta[158,5]	2.767 1.011	250
##	theta[159,5]	0.666 1.003	1300
##	theta[160,5]	2.154 1.084	35
## ##	theta[161,5]	1.855 1.059 3.562 1.050	48 56
	theta[162,5]		
##	theta[163,5]		38
##	theta[164,5]	1.979 1.095	33
##	theta[165,5]	0.232 1.117	27
##	theta[166,5]	0.030 1.073	42
##	theta[167,5]	0.092 1.056	56
##	theta[168,5]	4.514 1.087	36
##	theta[169,5]	3.391 1.042	71
##	theta[170,5]	0.290 1.084	36
##	theta[171,5]	1.388 1.015	180
##	theta[172,5]	2.637 1.059	50

##	theta[173,5]	4.558	1.086	35
##	theta[174,5]	1.053	1.003	1300
##	theta[175,5]	0.653	1.016	180
##	theta[176,5]	1.678	1.007	410
##	theta[177,5]	2.078	1.031	89
##	theta[178,5]	0.045	1.060	49
##	theta[179,5]	1.549	1.036	75
##	theta[180,5]	3.140	1.076	40
##	theta[181,5]	0.931	1.078	39
##	theta[182,5]	1.174	1.029	91
##	theta[183,5]	1.158	1.004	720
##	theta[184,5]	2.993	1.106	30
##	theta[185,5]	3.416	1.068	44
##	theta[186,5]	1.641	1.069	43
##	theta[187,5]	-0.029	1.053	56
##	theta[188,5]	0.936	1.018	140
##	theta[189,5]	4.671	1.082	37
##	theta[190,5]	4.722	1.088	35
##	theta[191,5]	2.997	1.043	68
##	theta[192,5]	3.082	1.104	30
##	theta[193,5]	2.720	1.082	38
##	theta[194,5]	1.306	1.003	1100
##	theta[195,5]	-0.109	1.063	48
##	theta[196,5]	3.187	1.095	32
##	theta[197,5]	3.404	1.080	38
##	theta[198,5]	4.500	1.091	34
##	theta[199,5]	4.481	1.072	41
##	theta[200,5]	0.360	1.034	83
##	theta[201,5]	4.409	1.098	32
##	theta[202,5]	2.888	1.053	54
##	theta[203,5]	1.464	1.046	62
##	theta[204,5]	3.867	1.064	46
##	theta[205,5]	1.390	1.005	640
##	theta[206,5]	2.028	1.054	54
##	theta[207,5]	1.788	1.034	82
##	theta[208,5]	0.510	1.041	74
##	theta[209,5]	2.975	1.070	43
##	theta[210,5]	4.510	1.082	38
##	theta[211,5]	0.524	1.034	83
##	theta[212,5]	0.639	1.002	3300
##	theta[213,5]	4.650	1.089	35
##	theta[214,5]	3.813	1.074	41
##	theta[215,5]	-0.047	1.051	61
##	theta[216,5]	4.586	1.091	34
##	theta[217,5]	0.207	1.081	38
##	theta[218,5]	3.084	1.082	37
##	theta[219,5]	0.546	1.009	360
##	theta[220,5]	2.802	1.022	130
##	theta[221,5]	1.532	1.015	180
##	theta[222,5]	1.386	1.056	51
##	theta[223,5]	4.415	1.105	30
##	theta[224,5]	-0.008	1.082	36
##	theta[225,5]	2.683	1.066	44
##	theta[226,5]	1.155	1.012	260

##	theta[227,5]	0.163	1.080	40
##	theta[228,5]	0.595	1.021	130
##	theta[229,5]	2.527	1.075	40
##	theta[230,5]	0.623	1.003	1200
##	theta[231,5]	0.200	1.101	31
##	theta[232,5]	1.212	1.022	120
##	theta[233,5]	-0.004	1.024	120
##	theta[234,5]	4.168	1.062	50
##	theta[235,5]	0.104	1.042	69
##	theta[236,5]	1.101	1.027	100
##	theta[237,5]	0.518	1.013	280
##	theta[238,5]	3.990	1.085	37
##	theta[239,5]	2.878	1.011	240
##	theta[240,5]	0.131	1.036	80
##	theta[241,5]	2.445	1.031	89
##	theta[242,5]	0.712	1.011	250
##	theta[243,5]	2.587	1.046	62
##	theta[244,5]	-0.027	1.023	120
##	theta[245,5]	4.510	1.070	46
##	theta[246,5]	0.255	1.072	42
##	theta[247,5]	2.597	1.065	45
##	theta[248,5]	2.266	1.063	46
##	theta[249,5]	0.243	1.054	54
##	theta[250,5]	0.024	1.052	56
##	theta[251,5]	0.977	1.071	43
##	theta[252,5]	0.323	1.003	3100
##	theta[253,5]	1.081	1.050	57
##	theta[254,5]	2.543	1.040	69
##	theta[255,5]	0.233	1.030	93
##	theta[256,5]	2.330	1.057	53
##	theta[257,5]	4.606	1.091	34
##	theta[258,5]	3.488	1.031	93
##	theta[259,5]	2.184	1.030	88
##	theta[260,5]	2.104	1.031	44
##	theta[261,5]	0.042	1.051	58
##	theta[262,5]	2.982	1.031	60
##	theta[263,5]	0.230	1.047	210
	theta[264,5]			57
##	theta[265,5]	0.249	1.050	
##	· · · · · · · · · · · · · · · · · · ·	0.736	1.041	68
##	theta[266,5]	2.384	1.093	33
##	theta[267,5]	3.207	1.086	35
##	theta[268,5]	0.783	1.016	170
##	theta[269,5]	1.060	1.020	130
##	theta[270,5]	2.080	1.040	69
##	theta[271,5]	-0.126	1.034	89
##	theta[272,5]	2.013	1.016	170
##	theta[273,5]	1.983	1.076	40
##	theta[274,5]	0.995	1.031	90
##	theta[275,5]	4.838	1.082	39
##	theta[276,5]	0.129	1.010	300
##	theta[277,5]	1.639	1.054	52
##	theta[278,5]	4.634	1.074	40
##	theta[279,5]	3.171	1.079	38
##	theta[280,5]	4.585	1.097	32

##	theta[281,5]	2.856	1.081	37
##	theta[282,5]	4.513	1.090	35
##	theta[283,5]	2.269	1.038	74
##	theta[284,5]	2.956	1.073	41
##	theta[285,5]	2.259	1.009	310
##	theta[286,5]	0.818	1.057	52
##	theta[287,5]	1.820	1.037	79
##	theta[288,5]	2.844	1.081	37
##	theta[289,5]	2.185	1.042	67
##	theta[290,5]	3.589	1.077	40
##	theta[291,5]	0.176	1.108	30
##	theta[292,5]	-0.124	1.039	79
##	theta[293,5]	0.832	1.003	4000
##	theta[294,5]	-0.020	1.030	100
##	theta[295,5]	3.474	1.074	40
##	theta[296,5]	0.919	1.049	61
##	theta[297,5]	1.092	1.067	43
##	theta[298,5]	1.892	1.020	140
##	theta[299,5]	0.779	1.060	50
##	theta[300,5]	2.757	1.054	55
##	theta[301,5]	3.180	1.093	33
##	theta[302,5]	3.485	1.096	33
##	theta[303,5]	1.140	1.022	120
##	theta[304,5]	0.162	1.045	66
##	theta[305,5]	3.041	1.057	50
##	theta[306,5]	1.122	1.036	76
##	theta[307,5]	0.043	1.032	90
##	theta[308,5]	0.290	1.007	450
##	theta[309,5]	-0.045	1.073	43
##	theta[310,5]	0.369	1.014	190
##	theta[311,5]	0.047	1.002	1300
##	theta[312,5]	-0.076	1.061	49
##	theta[313,5]	1.468	1.049	58
##	theta[314,5]	-0.114	1.030	98
##	theta[315,5]	1.841	1.069	42
##	theta[316,5]	0.029	1.019	170
##	theta[317,5]	0.464	1.005	640
##	theta[318,5]	1.051	1.031	85
##	theta[319,5]	2.375	1.055	52
##	theta[313,5]	-0.079	1.033	170
##	theta[321,5]	-0.016	1.030	94
##	theta[321,5]	2.429	1.082	36
##	theta[323,5]	3.106	1.087	35
##	theta[324,5]	2.343	1.049	57
##	theta[325,5]	2.775	1.043	39
##	theta[326,5]	0.256	1.013	230
##	theta[327,5]			
##	theta[328,5]	0.963 1.922	1.067 1.030	44 96
##				
	theta[329,5]	0.334	1.015	210
##	theta[330,5]	-0.042	1.020	150
##	theta[331,5]	0.131	1.005	580
##	theta[332,5]	0.495	1.009	360
##	theta[333,5]	0.031	1.016	200
##	theta[334,5]	0.089	1.086	36

##	theta[335,5]	2.276 1.051	56
##	theta[336,5]	0.501 1.003	1200
##	theta[337,5]	-0.010 1.058	49
##	theta[338,5]	0.102 1.025	110
##	theta[339,5]	1.326 1.007	360
##	theta[340,5]	3.175 1.100	31
##		3.256 1.092	33
	theta[341,5]		
##	theta[342,5]	0.061 1.075	40
##	theta[343,5]	-0.025 1.079	38
##	theta[344,5]	3.188 1.069	43
##	theta[345,5]	-0.115 1.050	59
##	theta[346,5]	2.314 1.101	30
##	theta[347,5]	0.877 1.032	85
##	theta[348,5]	0.242 1.003	910
##	theta[349,5]	0.454 1.010	360
##	theta[350,5]	1.464 1.064	45
##	theta[351,5]	2.945 1.115	28
##	theta[352,5]	0.007 1.026	110
##	theta[353,5]	-0.050 1.059	50
			33
##	theta[354,5]		
##	theta[355,5]	-0.003 1.014	220
##	theta[356,5]	1.932 1.069	42
##	theta[357,5]	0.274 1.009	460
##	theta[358,5]	4.767 1.090	34
##	theta[359,5]	2.156 1.083	36
##	theta[360,5]	0.263 1.007	480
##	theta[361,5]	1.673 1.035	77
##	theta[362,5]	0.726 1.010	290
##	theta[363,5]	2.158 1.083	36
##	theta[364,5]	-0.015 1.031	94
##	theta[365,5]	2.459 1.086	35
##	theta[366,5]	0.588 1.014	190
##	theta[367,5]	-0.016 1.019	150
##	theta[368,5]	1.658 1.058	50
##	theta[369,5]	1.976 1.093	34
##	theta[370,5]	3.218 1.089	34
##	theta[371,5]	-0.004 1.014	210
##	theta[372,5]	-0.135 1.023	120
##	theta[373,5]	0.207 1.016	190
##	theta[374,5]	2.236 1.057	51
##	theta[375,5]	1.877 1.084	36
##	theta[376,5]	1.624 1.064	44
##	theta[377,5]	-0.084 1.025	130
##	theta[378,5]	0.588 1.003	980
##	theta[379,5]	0.152 1.005	620
##	theta[380,5]	-0.085 1.035	91
##	theta[381,5]	0.063 1.017	190
##	theta[382,5]	-0.131 1.015	180
##	theta[383,5]	2.321 1.087	35
##	theta[384,5]		41
##	theta[385,5]	2.550 1.068	44
##	theta[386,5]	0.247 1.007	470
##	theta[387,5]	-0.100 1.030	100
##	theta[388,5]	-0.059 1.011	290

##	theta[389,5]	3.116	1.093	32
##	theta[390,5]	0.146	1.009	360
##	theta[391,5]	-0.045	1.019	150
##	theta[392,5]	0.076	1.026	110
##	theta[393,5]	-0.013	1.026	120
##	theta[394,5]	4.567	1.103	32
##	theta[395,5]	-0.054	1.060	50
##	theta[396,5]	4.576	1.086	37
##	theta[397,5]	-0.086	1.075	39
##	theta[398,5]	-0.142	1.009	330
##	theta[399,5]	0.196	1.083	38
##	theta[400,5]	4.056	1.058	50
##	theta[401,5]	0.146	1.020	150
##	theta[402,5]	1.761	1.018	150
##	theta[403,5]	2.546	1.064	46
##	theta[404,5]	0.502	1.006	540
##	theta[405,5]	2.586	1.070	42
##	theta[406,5]	0.979	1.076	40
##	theta[407,5]	0.177	1.009	350
##	theta[408,5]	0.997	1.070	43
##	theta[409,5]	1.499	1.046	62
##	theta[410,5]	1.740	1.086	35
##	theta[411,5]	-0.144	1.019	180
##	theta[412,5]	0.009	1.014	210
##	theta[413,5]	2.967	1.091	34
##	theta[414,5]	0.045	1.045	65
##	theta[415,5]	-0.035	1.087	36
##	theta[416,5]	0.453	1.005	510
##	theta[417,5]	0.652	1.008	340
##	theta[418,5]	0.427	1.032	95
##	theta[419,5]	-0.171	1.010	290
##	theta[420,5]	0.871	1.009	320
##	theta[421,5]	-0.042	1.065	47
##	theta[422,5]	1.679	1.034	81
##	theta[423,5]	0.024	1.054	50
##	theta[424,5]	-0.095	1.014	250
##	theta[425,5]	-0.105	1.021	150
##	theta[426,5]			40
##	theta[427,5]	0.987 -0.127	1.076 1.038	74
##	theta[428,5]	2.687	1.063	47
##	theta[429,5]	2.391	1.003	33
##	theta[430,5]	0.403	1.032	200
##	theta[431,5]	4.822	1.013	34
##	theta[432,5]	2.529	1.093	40
##	theta[433,5]	2.539	1.072	40
##	theta[434,5]	2.711	1.074	35
## ##	theta[435,5]	0.223	1.087 1.065	35 45
##	theta[436,5]	0.990		45
	theta[437,5]		1.029	100
##	theta[438,5]	0.102	1.002	1900
##	theta[439,5]	2.279	1.055	53
##	theta[440,5]	2.447	1.079	39
##	theta[441,5]	-0.126	1.083	38
##	theta[442,5]	0.943	1.063	47

##	theta[443,5]	2.334	1.077	39
##	theta[444,5]	0.253	1.006	420
##	theta[445,5]	2.740	1.093	33
##	theta[446,5]	0.993	1.084	36
##	theta[447,5]	1.807	1.058	49
##	theta[448,5]	0.491	1.010	290
##	theta[449,5]	1.284	1.006	510
##	theta[450,5]	0.656	1.007	460
##	theta[451,5]	0.111	1.037	78
##	theta[452,5]	0.245	1.024	130
##	theta[453,5]	2.993	1.069	43
##	theta[454,5]	0.956	1.085	36
##	theta[455,5]	0.546	1.015	180
##	theta[456,5]	2.479	1.068	43
##	theta[457,5]	0.497	1.003	3200
##	theta[458,5]	2.253	1.083	36
##	theta[459,5]	2.570	1.054	53
##	theta[460,5]	0.060	1.002	3600
##	theta[461,5]	0.260	1.009	300
##	theta[462,5]	-0.011	1.034	85
##	theta[463,5]	0.329	1.020	170
##	theta[464,5]	1.550	1.045	60
##	theta[465,5]	0.171	1.004	1100
##	theta[466,5]	2.313	1.081	37
##	theta[467,5]	-0.001	1.014	210
##	theta[468,5]	3.027	1.089	34
##	theta[469,5]	0.308	1.002	3200
##	theta[470,5]	1.216	1.041	67
##	theta[471,5]	0.218	1.012	220
##	theta[472,5]	2.422	1.083	36
##	theta[473,5]	2.085	1.069	42
##	theta[474,5]	2.076	1.072	41
##	theta[475,5]	0.243	1.088	35
##	theta[476,5]	2.837	1.096	32
##	theta[477,5]	0.063	1.005	1400
##	theta[478,5]	1.537	1.067	43
##	theta[479,5]	-0.105	1.012	260
##	theta[480,5]	1.431	1.063	46
##	theta[481,5]	1.910	1.086	35
##	theta[482,5]	0.521	1.023	130
##	theta[483,5]	0.293	1.005	950
##	theta[484,5]	-0.175	1.015	210
##	theta[485,5]	-0.154	1.008	410
##	theta[486,5]	1.494	1.004	670
##	theta[487,5]	2.298	1.054	54
##	theta[488,5]	-0.085	1.018	160
##	theta[489,5]	1.624	1.010	48
##	theta[490,5]	-0.054	1.018	180
##	theta[490,5]	0.920	1.010	43
##	theta[491,5]	0.920	1.005	43 650
##		0.288	1.005	
##	theta[493,5] theta[494,5]	2.912	1.054	38 55
		0.936	1.050	
##	theta[495,5]		1.070	42 68
##	theta[496,5]	1.495	1.040	68

##	theta[497,5]	0.930	1.092	34
##	theta[498,5]	0.004	1.074	41
##	theta[499,5]	1.002		37
##	theta[500,5]	0.105	1.034	85
##	theta[501,5]	-0.007	1.004	730
##	theta[502,5]	0.738	1.010	270
##	theta[503,5]	0.055	1.090	34
##	theta[504,5]	-0.047	1.029	100
##	theta[505,5]	0.881	1.049	58
##	theta[506,5]	1.026	1.075	40
##	theta[507,5]	-0.002	1.026	110
##	theta[508,5]	-0.016	1.018	160
##	theta[509,5]	0.994	1.076	40
##	theta[510,5]	1.170	1.066	44
##	theta[511,5]	-0.091	1.017	190
##	theta[512,5]	-0.088	1.019	140
##	theta[513,5]	1.600	1.056	51
##	theta[514,5]	0.045	1.018	170
##	theta[515,5]	0.043	1.015	180
##			1.013	150
	theta[516,5]	0.026 0.118	1.022	56
##	theta[517,5]	0.118		
##	theta[518,5]		1.004	950
##	theta[519,5]	1.105	1.097	32
##	theta[520,5]	1.107	1.028	94
##	theta[521,5]	1.285	1.050	56
##	theta[522,5]	0.247	1.060	49
##	theta[523,5]	0.039	1.075	42
##	theta[524,5]	0.978	1.084	37
##	theta[525,5]	1.452	1.081	37
##	theta[526,5]	0.221	1.085	37
##	theta[527,5]	0.398	1.004	990
##	theta[528,5]	0.374	1.001	4000
##	theta[529,5]	0.067	1.059	50
##	theta[530,5]	0.524	1.063	46
##	theta[531,5]	1.298	1.072	40
##	theta[532,5]	0.163	1.071	43
##	theta[533,5]	1.681	1.050	56
##	theta[534,5]	0.236	1.108	30
##	theta[535,5]	1.394	1.047	59
##	theta[536,5]	0.347	1.003	1100
##	theta[1,6]	0.686	1.066	47
##	theta[2,6]	0.393	1.024	110
##	theta[3,6]	0.761	1.019	140
##	theta[4,6]	1.357	1.097	32
##	theta[5,6]	1.284	1.150	22
##	theta[6,6]	1.258	1.169	20
##	theta[7,6]	1.727	1.263	14
##	theta[8,6]	1.741	1.209	17
##	theta[9,6]	1.359	1.184	19
##	theta[10,6]	1.338		20
##	theta[11,6]	1.323		34
##	theta[12,6]	1.454	1.105	30
##	theta[13,6]	1.342	1.030	90
##	theta[14,6]	1.535	1.192	18

##	theta[15,6]	1.292	1.184	19
##	theta[16,6]	1.058	1.135	25
##	theta[17,6]	1.342	1.054	52
##	theta[18,6]	1.295	1.161	21
##	theta[19,6]	1.150	1.159	21
##	theta[20,6]	1.955	1.282	14
##	theta[21,6]	1.234	1.170	20
##	theta[22,6]	1.306	1.093	32
##	theta[23,6]	1.322	1.234	16
##	theta[24,6]	0.938	1.053	55
##	theta[25,6]	1.338	1.044	75
##	theta[26,6]	1.940	1.281	14
##	theta[27,6]	1.158	1.112	28
##	theta[28,6]	2.328	1.301	13
##	theta[29,6]	1.087	1.122	26
##	theta[30,6]	1.349	1.233	16
##	theta[31,6]	0.670	1.016	220
##	theta[32,6]	1.335	1.257	14
##	theta[33,6]	1.357	1.116	27
##	theta[34,6]	0.537	1.023	140
##	theta[35,6]	1.283	1.117	27
##	theta[36,6]	1.515	1.105	30
##	theta[37,6]	0.781	1.103	31
##	theta[38,6]	1.363	1.022	150
##	theta[39,6]	1.167	1.121	26
##	theta[40,6]	1.092	1.108	29
##	theta[41,6]	1.911	1.292	13
##	theta[42,6]	1.415	1.276	14
##	theta[43,6]	1.264	1.224	16
##	theta[44,6]	1.478	1.196	18
##	theta[45,6]	1.146	1.073	42
##	theta[46,6]	0.859	1.004	950
##	theta[47,6]	1.128	1.147	22
##	theta[48,6]	0.993	1.073	43
##	theta[49,6]	1.772	1.203	17
##	theta[50,6]	0.627	1.026	120
##	theta[51,6]	1.937	1.221	16
##	theta[52,6]	1.584	1.009	540
##	theta[53,6]	0.986	1.059	48
##	theta[54,6]	0.351	1.030	93
##	theta[55,6]	0.761	1.040	74
##	theta[56,6]	1.333	1.267	14
##	theta[57,6]	1.154	1.176	19
##	theta[57,6]	2.083	1.282	14
##	theta[59,6]	1.136	1.133	24
##	theta[60,6]	1.015	1.059	49
##	theta[61,6]	1.015	1.174	20
##	theta[62,6]	1.202	1.174	20 17
##	-			
	theta[63,6]	1.362	1.151	23
##	theta[64,6]	1.175	1.135	24
##	theta[65,6]	1.282	1.093	34 65
##	theta[66,6]	0.939	1.047	65
##	theta[67,6]	1.230	1.080	38
##	theta[68,6]	1.908	1.262	14

##	theta[69,6]	2.200 1.3	314 13
##	theta[70,6]	0.946 1.3	121 26
##	theta[71,6]	1.096 1.3	102 30
##	theta[72,6]	1.190 1.3	131 25
##	theta[73,6]	1.997 1.3	281 14
##	theta[74,6]	1.246 1.3	140 23
##	theta[75,6]	1.151 1.	162 21
##	theta[76,6]	2.191 1.3	305 13
##	theta[77,6]	0.928 1.0	017 160
##	theta[78,6]	1.246 1.3	112 28
##	theta[79,6]	1.285 1.3	278 14
##	theta[80,6]	0.634 1.0	025 140
##	theta[81,6]	1.247 1.3	145 22
##	theta[82,6]	1.066 1.0	055 53
##	theta[83,6]	1.910 1.3	300 13
##	theta[84,6]	1.543 1.0	017 240
##	theta[85,6]	1.454 1.0	031 96
##	theta[86,6]	0.959 1.0	008 400
##	theta[87,6]	1.135 1.0	030 95
##	theta[88,6]	0.850 1.0	009 310
##	theta[89,6]	1.388 1.3	281 14
##	theta[90,6]	1.283 1.3	167 20
##	theta[91,6]	1.057 1.0	030 95
##	theta[92,6]	1.365 1.3	193 18
##	theta[93,6]	1.370 1.3	214 17
##	theta[94,6]	1.136 1.3	145 22
##	theta[95,6]	1.265 1.3	247 15
##	theta[96,6]	0.388 1.0	030 96
##	theta[97,6]	0.720 1.0	051 59
##	theta[98,6]	1.348 1.3	189 18
##	theta[99,6]	1.326 1.3	159 21
##	theta[100,6]	1.480 1.3	170 20
##	theta[101,6]		040 73
##	theta[102,6]	1.405 1.2	215 17
##	theta[103,6]	1.067 1.3	107 29
##	theta[104,6]	0.327 1.0	054 54
##	theta[105,6]	0.544 1.0	006 490
##	theta[106,6]	1.141 1.0	016 210
##	theta[107,6]	1.878 1.0	026 140
##	theta[108,6]	1.388 1.3	261 14
##	theta[109,6]	1.199 1.0	076 40
##	theta[110,6]	1.342 1.0	073 41
##	theta[111,6]	1.365 1.3	176 19
##	theta[112,6]	2.176 1.2	292 13
##	theta[113,6]	0.850 1.0	015 190
##	theta[114,6]	0.860 1.0	037 84
##	theta[115,6]	0.924 1.0	009 340
##	theta[116,6]		051 56
##	theta[117,6]		294 13
##	theta[118,6]		040 76
##	theta[119,6]		028 120
##	theta[120,6]		322 12
##	theta[121,6]		148 22
##	theta[122,6]		085 35
	- , -		

##	theta[123,6]	1.217 1.152	22
##	theta[124,6]	1.374 1.272	
##	theta[125,6]	1.150 1.087	35
##	theta[126,6]	0.811 1.037	76
##	theta[127,6]	1.170 1.208	3 17
##	theta[128,6]	0.423 1.014	410
##	theta[129,6]	0.760 1.063	48
##	theta[130,6]	1.283 1.124	26
##	theta[131,6]	1.053 1.136	24
##	theta[132,6]	0.611 1.020	180
##	theta[133,6]	0.856 1.125	
##	theta[134,6]	1.959 1.291	
##	theta[135,6]	1.853 1.221	
##	theta[136,6]	1.107 1.134	
##	theta[137,6]	0.665 1.002	
##	theta[138,6]	1.235 1.209	
##	theta[139,6]	1.768 1.211	
##	theta[140,6]	1.384 1.206	
##	theta[141,6]	1.195 1.028	
##	theta[142,6]	0.636 1.024	
##	theta[143,6]	1.408 1.201	
##	theta[144,6]	1.224 1.154	
##	theta[145,6]	1.053 1.122	
##	theta[146,6]	0.476 1.024	
##	theta[147,6]	1.361 1.167	
##	theta[148,6]	2.268 1.308	
##	theta[149,6]	0.649 1.046	
##	theta[150,6]	1.332 1.264	
##	theta[151,6]	1.271 1.075	
##	theta[152,6]	0.653 1.034	
##	theta[153,6]	0.619 1.027	
##	theta[154,6]	1.272 1.147	
##	theta[155,6]	0.599 1.015	
##	theta[156,6]	1.258 1.173	
##			
	theta[157,6]		
## ##	theta[158,6]	0.956 1.053 0.526 1.010	
	theta[159,6]		
##	theta[160,6]	1.297 1.223	
##	theta[161,6]	1.301 1.180	
##	theta[162,6]	1.138 1.092	
##	theta[163,6]	1.149 1.143	
##	theta[164,6]	1.402 1.213	
##	theta[165,6]	2.226 1.302	
##	theta[166,6]	1.735 1.203	
##	theta[167,6]	1.563 1.246	
##	theta[168,6]	1.371 1.237	
##	theta[169,6]	1.278 1.118	
##	theta[170,6]	2.166 1.293	
##	theta[171,6]	1.163 1.096	
##	theta[172,6]	0.609 1.051	
##	theta[173,6]	1.331 1.243	
##	theta[174,6]	0.648 1.063	
##	theta[175,6]	0.924 1.071	
##	theta[176,6]	0.859 1.042	? 75

##	theta[177,6]	0.772 1.018	150
##	theta[178,6]	1.164 1.017	180
##	theta[179,6]	0.597 1.036	79
##	theta[180,6]	0.699 1.043	66
##	theta[181,6]	1.789 1.233	16
##	theta[182,6]	1.286 1.129	25
##	theta[183,6]	1.168 1.034	100
##	theta[184,6]	1.391 1.235	16
##		1.165 1.178	19
	theta[185,6]		
##	theta[186,6]	1.300 1.180	19
##	theta[187,6]	1.664 1.027	110
##	theta[188,6]	1.016 1.127	25
##	theta[189,6]	1.441 1.260	14
##	theta[190,6]	1.388 1.252	15
##	theta[191,6]	1.168 1.094	32
##	theta[192,6]	1.188 1.165	20
##	theta[193,6]	1.216 1.183	19
##	theta[194,6]	1.045 1.078	39
##	theta[195,6]	1.361 1.168	20
##	theta[196,6]	1.102 1.154	21
##	theta[197,6]	1.218 1.193	18
##	theta[198,6]	1.346 1.263	14
##	theta[199,6]	1.101 1.191	18
##	theta[200,6]	1.400 1.034	79
##	theta[201,6]	1.460 1.248	15
##	theta[202,6]	0.349 1.023	120
##		1.100 1.072	41
	theta[203,6]		
##	theta[204,6]	0.708 1.057	50
##	theta[205,6]	0.833 1.039	82
##	theta[206,6]	0.602 1.024	170
##	theta[207,6]	1.289 1.099	31
##	theta[208,6]	1.645 1.021	200
##	theta[209,6]	1.162 1.089	34
##	theta[210,6]	1.471 1.261	14
##	theta[211,6]	1.102 1.147	22
##	theta[212,6]	0.568 1.008	370
##	theta[213,6]	1.331 1.262	14
##	theta[214,6]	0.370 1.050	59
##	theta[215,6]	1.669 1.021	160
##	theta[216,6]	1.318 1.268	14
##	theta[217,6]	2.014 1.283	14
##	theta[218,6]	0.697 1.038	73
##	theta[219,6]	1.436 1.045	74
##	theta[220,6]	1.092 1.006	450
##	theta[221,6]	0.568 1.031	95
##	theta[222,6]	0.998 1.084	36
##	theta[223,6]	1.435 1.274	14
##	theta[224,6]	1.880 1.322	12
##	theta[225,6]	1.263 1.197	18
##	theta[226,6]	1.045 1.115	27
##	theta[227,6]	2.213 1.315	13
##	theta[228,6]	1.357 1.120	26
##	theta[229,6]	1.136 1.171	20
##	theta[230,6]	1.294 1.072	43

```
## theta[231,6]
                      2.232 1.322
                                       12
                                      39
## theta[232,6]
                      1.145 1.078
## theta[233,6]
                      1.065 1.108
                                      29
## theta[234,6]
                      0.455 1.008
                                      570
## theta[235,6]
                      1.564 1.018
                                      160
## theta[236,6]
                      1.688 1.033
                                      110
## theta[237,6]
                      1.250 1.016
                                      250
## theta[238,6]
                      0.728 1.064
                                      45
   theta[239,6]
                      1.068 1.072
                                      43
  theta[240,6]
                      1.430 1.013
                                      220
## theta[241,6]
                      1.306 1.166
                                       20
## theta[242,6]
                      1.139 1.095
                                       33
   theta[243,6]
                      1.290 1.081
                                       37
   theta[244,6]
                      0.992 1.098
                                       31
## theta[245,6]
                      1.428 1.231
                                       16
  theta[246,6]
                      1.938 1.277
                                       14
  theta[247,6]
                      0.809 1.046
                                       60
  theta[248,6]
                      1.142 1.142
                                       23
## theta[249,6]
                      1.495 1.215
                                       17
## theta[250,6]
                      1.299 1.163
                                       20
## theta[251,6]
                      1.766 1.224
                                       16
## theta[252,6]
                      1.195 1.032
                                       88
## theta[253,6]
                      1.348 1.209
                                       17
## theta[254,6]
                      1.223 1.092
                                      33
  theta[255,6]
                      1.509 1.021
                                      130
  theta[256,6]
                      0.775 1.044
                                      63
## theta[257,6]
                      1.333 1.243
                                       15
##
  theta[258,6]
                      1.414 1.112
                                       28
   theta[259,6]
                                       58
                      1.380 1.048
## theta[260,6]
                      0.798 1.013
                                      230
## theta[261,6]
                      1.298 1.166
                                       20
  theta[262,6]
                      0.426 1.017
                                      190
   theta[263,6]
                      0.988 1.059
                                      50
## theta[264,6]
                      1.473 1.206
                                      17
## theta[265,6]
                      1.143 1.160
                                       21
## theta[266,6]
                      1.176 1.163
                                      21
## theta[267,6]
                      1.121 1.175
                                       19
## theta[268,6]
                      1.397 1.023
                                      140
## theta[269,6]
                      1.084 1.095
                                      32
## theta[270,6]
                                      36
                      1.162 1.085
## theta[271,6]
                      1.064 1.082
                                      37
## theta[272,6]
                      1.100 1.023
                                      120
## theta[273,6]
                      1.426 1.214
                                      17
  theta[274,6]
                      1.637 1.036
                                      97
## theta[275,6]
                      1.482 1.250
                                      15
## theta[276,6]
                      0.931 1.005
                                      840
##
  theta[277,6]
                      1.308 1.179
                                      19
   theta[278,6]
                      1.416 1.245
                                       15
  theta[279,6]
                      1.065 1.145
                                       22
  theta[280,6]
                      1.344 1.249
                                       15
##
  theta[281,6]
                      1.326 1.218
                                       16
## theta[282,6]
                      1.346 1.255
                                       15
## theta[283,6]
                      0.488 1.032
                                      93
## theta[284,6]
                      1.143 1.132
                                       24
```

##	theta[285,6]	0.768 1.009	320
##	theta[286,6]	2.013 1.053	60
##	theta[287,6]	0.521 1.014	230
##	theta[288,6]	0.784 1.061	47
##	theta[289,6]	0.997 1.034	85
##	theta[290,6]	1.102 1.169	20
##	theta[291,6]	2.196 1.309	13
##		1.559 1.017	220
	theta[292,6]		
##	theta[293,6]	0.625 1.081	37
##	theta[294,6]	1.037 1.100	31
##	theta[295,6]	1.242 1.196	18
##	theta[296,6]	1.498 1.188	18
##	theta[297,6]	1.542 1.200	18
##	theta[298,6]	0.569 1.040	75
##	theta[299,6]	1.496 1.053	54
##	theta[300,6]	1.207 1.103	30
##	theta[301,6]	1.079 1.163	20
##	theta[302,6]	1.276 1.195	18
##	theta[303,6]	1.167 1.109	29
##	theta[304,6]	1.687 1.016	270
##	theta[305,6]	1.156 1.101	31
##	theta[306,6]	1.145 1.103	30
##	-		310
	theta[307,6]		
##	theta[308,6]	1.277 1.008	340
##	theta[309,6]	1.613 1.203	17
##	theta[310,6]	1.031 1.073	42
##	theta[311,6]	1.260 1.066	45
##	theta[312,6]	1.775 1.207	17
##	theta[313,6]	1.193 1.136	24
##	theta[314,6]	0.946 1.017	160
##	theta[315,6]	1.017 1.095	32
##	theta[316,6]	1.394 1.008	460
##	theta[317,6]	0.861 1.057	53
##	theta[318,6]	1.246 1.092	33
##	theta[319,6]	1.154 1.083	36
##	theta[320,6]	1.011 1.076	39
##	theta[321,6]	1.532 1.015	260
##	theta[322,6]	1.128 1.192	18
##	theta[323,6]	1.065 1.137	23
	theta[324,6]		
##	-	1.211 1.090	33
##	theta[325,6]	1.313 1.214	17
##	theta[326,6]	0.976 1.064	46
##	theta[327,6]	1.804 1.207	17
##	theta[328,6]	1.229 1.076	39
##	theta[329,6]	1.384 1.027	110
##	theta[330,6]	1.217 1.005	610
##	theta[331,6]	0.746 1.014	190
##	theta[332,6]	1.320 1.022	140
##	theta[333,6]	0.993 1.097	32
##	theta[334,6]	1.925 1.278	14
##	theta[335,6]	1.219 1.088	35
##	theta[336,6]	1.227 1.050	56
##	theta[337,6]	1.153 1.124	26
##	theta[338,6]	1.098 1.133	24
##	one oa [330,0]	1.030 1.133	24

##	theta[339,6]	1.343	1.060	50
##	theta[340,6]	1.086	1.164	20
##	theta[341,6]	1.138	1.171	20
##	theta[342,6]	1.949	1.286	13
##	theta[343,6]	1.600	1.186	19
##	theta[344,6]	0.763	1.022	120
##	theta[345,6]	1.713	1.211	17
##	theta[346,6]	1.038	1.156	21
##	theta[347,6]	1.100	1.023	120
##	theta[348,6]	1.440	1.051	62
##	theta[349,6]	1.162	1.003	1900
##	theta[350,6]	1.124	1.131	24
##	theta[351,6]	1.332	1.202	17
##	theta[352,6]	1.000	1.086	35
##	theta[353,6]	1.619	1.199	18
##	theta[354,6]	1.055	1.150	22
##	theta[355,6]	1.352	1.017	190
##	theta[356,6]	0.960	1.081	37
##	theta[357,6]	1.062	1.005	990
##	theta[358,6]	1.376	1.270	14
##	theta[359,6]	1.105	1.117	27
##	theta[360,6]	1.352	1.065	46
##	theta[361,6]	0.410	1.017	180
##	theta[362,6]	1.117	1.057	53
##	theta[363,6]	1.274	1.206	17
##	theta[364,6]	1.059	1.118	27
##	theta[365,6]	0.714	1.022	130
##	theta[366,6]	1.225	1.089	34
##	theta[367,6]	1.074	1.115	27
##	theta[368,6]	1.314	1.136	24
##	theta[369,6]	1.452	1.207	17
##	theta[370,6]	1.137	1.170	20
##	theta[371,6]	1.300	1.012	250
##	theta[372,6]	1.031	1.087	35
##	theta[373,6]	0.909	1.003	2700
##	theta[374,6]	1.105	1.114	27
##	theta[375,6]	1.168	1.171	20
##	theta[376,6]	1.381	1.206	17
##	theta[377,6]	0.998	1.070	41
##	theta[378,6]	1.271	1.073	41
##	theta[379,6]	1.271	1.076	39
##	theta[380,6]	1.329	1.030	91
##	theta[381,6]	1.367	1.013	240
##	theta[382,6]	0.789	1.008	450
##	theta[383,6]	1.087	1.147	22
##	theta[384,6]	1.415	1.191	18
##	theta[385,6]	1.296	1.143	23
##	theta[386,6]	1.273	1.054	55
##	theta[387,6]	0.959	1.075	39
##	theta[388,6]	1.352	1.034	86
##	theta[389,6]	1.122	1.163	21
##	theta[390,6]	0.894	1.030	100
##	theta[391,6]	0.827	1.006	750
##	theta[392,6]	1.073	1.139	23

```
## theta[393,6]
                      0.987 1.092
                                       33
                                       14
## theta[394,6]
                      1.390 1.261
## theta[395,6]
                      1.598 1.185
                                       19
## theta[396,6]
                      1.418 1.249
                                       15
## theta[397,6]
                      1.656 1.195
                                       18
## theta[398,6]
                      1.317 1.045
                                       69
## theta[399,6]
                      1.965 1.278
                                       14
## theta[400,6]
                      0.402 1.035
                                       88
   theta[401,6]
                      1.325 1.011
                                      330
  theta[402,6]
                      1.487 1.131
                                       25
## theta[403,6]
                      1.193 1.147
                                       22
## theta[404,6]
                      0.669 1.091
                                       34
   theta[405,6]
                      1.284 1.194
                                       18
##
   theta[406,6]
                      1.774 1.235
                                       16
## theta[407,6]
                      0.768 1.077
                                       39
   theta[408,6]
                      1.734 1.218
                                       16
  theta[409,6]
##
                      1.284 1.093
                                       33
  theta[410,6]
                      1.284 1.186
                                       19
## theta[411,6]
                      1.182 1.004
                                    1100
## theta[412,6]
                      0.972 1.089
                                       34
## theta[413,6]
                      1.317 1.227
                                       16
## theta[414,6]
                      1.250 1.160
                                       21
## theta[415,6]
                      1.699 1.200
                                       17
## theta[416,6]
                      0.817 1.068
                                       45
## theta[417,6]
                      0.877 1.078
                                       39
  theta[418,6]
                      0.956 1.110
                                       28
## theta[419,6]
                                       64
                      1.370 1.046
##
   theta[420,6]
                      0.812 1.060
                                       49
   theta[421,6]
                      1.713 1.190
                                       18
  theta[422,6]
                      1.049 1.112
                                       28
  theta[423,6]
                      1.653 1.204
                                       17
   theta[424,6]
                      0.923 1.062
                                       46
   theta[425,6]
                      0.945 1.080
                                       37
## theta[426,6]
                      1.811 1.238
                                       15
  theta[427,6]
                      0.960 1.021
                                      130
## theta[428,6]
                      1.243 1.183
                                       19
## theta[429,6]
                      1.158 1.179
                                       19
## theta[430,6]
                      0.855 1.094
                                       33
## theta[431,6]
                      1.373 1.248
                                       15
## theta[432,6]
                      1.040 1.107
                                       29
  theta[433,6]
                      0.997 1.117
                                       27
## theta[434,6]
                      1.270 1.206
                                       17
##
  theta[435,6]
                      1.728 1.253
                                       15
   theta[436,6]
                                       17
                      1.800 1.213
## theta[437,6]
                      0.976 1.089
                                       34
## theta[438,6]
                      1.091 1.028
                                      100
##
  theta[439,6]
                      0.680 1.017
                                      150
   theta[440,6]
                      0.742 1.043
                                       65
                      1.628 1.186
## theta[441,6]
                                       18
## theta[442,6]
                      1.744 1.237
                                       15
  theta[443,6]
##
                      0.956 1.081
                                       37
## theta[444,6]
                      1.356 1.097
                                       33
## theta[445,6]
                      1.270 1.204
                                       17
## theta[446,6]
                      1.729 1.219
                                       16
```

```
## theta[447,6]
                      1.384 1.191
                                       18
## theta[448,6]
                                       32
                      1.229 1.096
## theta[449,6]
                      1.392 1.029
                                      110
                                      36
## theta[450,6]
                      0.863 1.083
## theta[451,6]
                      1.148 1.157
                                       21
## theta[452,6]
                      0.792 1.133
                                       24
## theta[453,6]
                      0.936 1.104
                                       30
## theta[454,6]
                      1.762 1.197
                                       18
   theta[455,6]
                      0.742 1.091
                                       34
  theta[456,6]
                      1.006 1.084
                                       36
## theta[457,6]
                      0.761 1.008
                                      520
## theta[458,6]
                                       22
                      1.075 1.147
  theta[459,6]
                      1.073 1.080
                                       37
   theta[460,6]
                      1.258 1.038
                                       75
## theta[461,6]
                      1.279 1.096
                                       33
## theta[462,6]
                      1.092 1.114
                                       28
  theta[463,6]
##
                      1.236 1.024
                                      120
## theta[464,6]
                      0.452 1.029
                                       98
## theta[465,6]
                      1.303 1.063
                                       48
## theta[466,6]
                      1.175 1.154
                                       22
## theta[467,6]
                      0.819 1.016
                                      170
## theta[468,6]
                      1.109 1.146
                                       22
## theta[469,6]
                      1.238 1.054
                                       55
## theta[470,6]
                      1.082 1.102
                                       30
## theta[471,6]
                      1.283 1.095
                                       33
## theta[472,6]
                      1.137 1.172
                                       20
## theta[473,6]
                                       27
                      1.062 1.115
##
  theta[474,6]
                      1.072 1.121
                                       26
   theta[475,6]
                      2.009 1.276
                                       14
## theta[476,6]
                      1.325 1.248
                                       15
## theta[477,6]
                      1.271 1.041
                                       72
  theta[478,6]
                      0.759 1.039
                                       69
  theta[479,6]
                      0.825 1.007
                                      490
## theta[480,6]
                                       17
                      1.331 1.204
## theta[481,6]
                      1.115 1.142
                                       23
## theta[482,6]
                      0.969 1.119
                                       27
## theta[483,6]
                      1.187 1.030
                                       96
## theta[484,6]
                      1.286 1.050
                                       61
## theta[485,6]
                      1.384 1.036
                                       87
## theta[486,6]
                      0.797 1.035
                                       86
## theta[487,6]
                      0.946 1.045
                                       61
## theta[488,6]
                      0.953 1.067
                                       44
  theta[489,6]
##
                      1.316 1.201
                                       17
  theta[490,6]
                      0.906 1.021
                                      140
## theta[491,6]
                      1.776 1.224
                                       16
## theta[492,6]
                      1.249 1.066
                                       45
##
  theta[493,6]
                      1.919 1.288
                                       13
  theta[494,6]
                      1.192 1.084
                                       37
                      1.544 1.183
## theta[495,6]
                                       19
## theta[496,6]
                      1.207 1.107
                                       29
  theta[497,6]
##
                      1.725 1.227
                                       16
## theta[498,6]
                      1.910 1.212
                                       17
## theta[499,6]
                      1.895 1.226
                                       16
## theta[500,6]
                      1.105 1.132
                                       25
```

```
## theta[501,6]
                      1.192 1.036
                                       83
## theta[502,6]
                      0.946 1.101
                                       31
## theta[503,6]
                      1.932 1.226
                                       16
## theta[504,6]
                      1.030 1.110
                                       28
##
  theta[505,6]
                      1.613 1.206
                                       17
  theta[506,6]
##
                      1.934 1.250
                                       15
  theta[507,6]
                      1.101 1.149
                                       22
## theta[508,6]
                      1.083 1.101
                                       31
   theta[509,6]
                      1.915 1.236
                                       15
   theta[510,6]
                      1.584 1.186
                                       18
   theta[511,6]
                      0.927 1.060
                                       49
   theta[512,6]
                      0.942 1.067
                                       44
   theta[513,6]
                      1.182 1.063
                                       47
##
   theta[514,6]
                      0.948 1.092
                                       34
  theta[515,6]
                      1.016 1.112
                                       28
   theta[516,6]
                      0.964 1.079
                                       37
   theta[517,6]
##
                      1.466 1.151
                                       22
   theta[518,6]
                      1.119 1.047
                                       61
  theta[519,6]
                      1.868 1.244
                                       15
## theta[520,6]
                      1.199 1.111
                                       28
##
  theta[521,6]
                      1.488 1.202
                                       17
  theta[522,6]
                      1.648 1.228
                                       16
## theta[523,6]
                      1.600 1.246
                                       15
   theta[524,6]
##
                      1.710 1.240
                                       15
##
   theta[525,6]
                      1.676 1.270
                                       14
   theta[526,6]
                      1.662 1.243
                                       15
  theta[527,6]
                      1.175 1.035
                                       86
##
   theta[528,6]
                      1.128 1.028
                                      100
   theta[529,6]
                      1.610 1.213
                                       17
   theta[530,6]
                      1.454 1.263
                                       14
   theta[531,6]
                      1.595 1.220
                                       16
##
   theta[532,6]
                      2.243 1.277
                                       14
   theta[533,6]
                      1.415 1.161
                                       21
  theta[534,6]
                      2.237 1.298
                                       13
   theta[535,6]
                      1.207 1.109
                                       29
  theta[536,6]
                                       99
##
                      1.241 1.030
## theta[1,7]
                      0.340 1.004
                                      750
## theta[2,7]
                      1.881 1.003
                                     1200
## theta[3,7]
                      0.446 1.022
                                      120
## theta[4,7]
                      1.290 1.002
                                     1400
  theta[5,7]
                     -0.117 1.018
                                      140
  theta[6,7]
                     -0.085 1.015
                                      200
##
##
   theta[7,7]
                     -0.627 1.014
                                      190
   theta[8,7]
                     -0.640 1.030
                                       90
##
## theta[9,7]
                     -0.252 1.007
                                      450
  theta[10,7]
                                      390
                     -0.345 1.007
##
  theta[11,7]
                      1.789 1.004
                                      970
   theta[12,7]
                      0.854 1.003
                                      890
   theta[13,7]
                      0.150 1.005
                                      600
   theta[14,7]
                     -0.406 1.021
                                      130
##
   theta[15,7]
                     -0.217 1.009
                                      320
## theta[16,7]
                      0.150 1.002
                                     2300
## theta[17,7]
                     -0.196 1.029
                                       90
## theta[18,7]
                     -0.299 1.005
                                      560
```

```
## theta[19,7]
                       0.042 1.005
                                      580
## theta[20,7]
                                      130
                     -0.694 1.022
  theta[21,7]
                       1.854 1.007
                                      410
  theta[22,7]
                       1.300 1.004
                                     1100
##
   theta[23,7]
                       3.211 1.012
                                      240
   theta[24,7]
                                      490
                      0.356 1.007
  theta[25,7]
                       0.638 1.008
                                      340
  theta[26,7]
                     -0.790 1.010
                                      300
   theta[27,7]
                     -0.008 1.008
                                      370
   theta[28,7]
                     -0.916 1.013
                                      210
   theta[29,7]
                      0.127 1.009
                                      300
   theta[30,7]
                       3.405 1.016
                                      180
##
   theta[31,7]
                       1.377 1.015
                                      190
   theta[32,7]
                       3.175 1.012
                                      210
   theta[33,7]
                       1.259 1.008
                                      340
   theta[34,7]
                       1.179 1.006
                                      490
   theta[35,7]
                       1.505 1.002
                                     4000
   theta[36,7]
                       0.870 1.002
                                     1500
  theta[37,7]
                       0.272 1.005
                                      710
## theta[38,7]
                       0.697 1.011
                                      240
                                     4000
  theta[39,7]
                       1.668 1.001
## theta[40,7]
                     -0.011 1.005
                                      800
## theta[41,7]
                     -0.811 1.012
                                      220
   theta[42,7]
                       3.297 1.026
##
                                      110
   theta[43,7]
##
                      2.555 1.012
                                      260
   theta[44,7]
                     -0.253 1.013
                                      200
   theta[45,7]
                       1.315 1.009
                                      290
   theta[46,7]
##
                       0.783 1.006
                                      480
   theta[47,7]
                       0.053 1.013
                                      210
   theta[48,7]
                       0.341 1.003
                                     1500
   theta[49,7]
                     -0.702 1.009
                                      310
##
   theta[50,7]
                       0.748 1.004
                                      710
   theta[51,7]
                     -0.755 1.010
                                      260
   theta[52,7]
                      0.119 1.012
                                      210
   theta[53,7]
                       0.137 1.019
                                      140
                       1.841 1.009
   theta[54,7]
##
                                      280
  theta[55,7]
                       0.793 1.002
                                     2500
## theta[56,7]
                       3.356 1.024
                                      120
## theta[57,7]
                       2.450 1.013
                                      250
##
  theta[58,7]
                     -0.754 1.017
                                      160
   theta[59,7]
                       0.005 1.002
                                     2000
   theta[60,7]
                       1.408 1.009
                                      290
   theta[61,7]
##
                     -0.185 1.019
                                      140
   theta[62,7]
                     -0.783 1.015
                                      180
   theta[63,7]
                       1.758 1.011
                                      230
   theta[64,7]
                       2.007 1.008
                                      390
##
   theta[65,7]
                       1.284 1.002
                                     1400
   theta[66,7]
                                      760
                       0.241 1.004
   theta[67,7]
                      1.546 1.009
                                      310
   theta[68,7]
                     -0.808 1.013
                                      210
##
   theta[69,7]
                                      190
                     -0.898 1.015
## theta[70,7]
                      0.128 1.006
                                      440
## theta[71,7]
                      0.056 1.007
                                      390
## theta[72,7]
                     -0.088 1.006
                                      610
```

```
## theta[73,7]
                     -0.721 1.021
                                      130
                                      120
## theta[74,7]
                      1.700 1.021
                      0.065 1.007
  theta[75,7]
                                      400
## theta[76,7]
                     -0.908 1.016
                                      180
##
   theta[77,7]
                      0.313 1.003
                                     1200
   theta[78,7]
##
                      1.595 1.007
                                      400
  theta[79,7]
                      3.261 1.020
                                      150
## theta[80,7]
                      0.722 1.004
                                      750
##
   theta[81,7]
                     -0.178 1.014
                                      200
   theta[82,7]
                      1.106 1.005
                                      510
   theta[83,7]
                     -0.814 1.015
                                      190
   theta[84,7]
                      0.353 1.014
                                      190
##
   theta[85,7]
                      0.521 1.006
                                      450
   theta[86,7]
                      0.914 1.008
                                      360
   theta[87,7]
                      0.770 1.004
                                      850
   theta[88,7]
                      0.935 1.003
                                     1200
##
   theta[89,7]
                      3.136 1.009
                                      310
   theta[90,7]
                      1.885 1.013
                                      220
                      1.258 1.007
  theta[91,7]
                                      400
##
  theta[92,7]
                     -0.222 1.013
                                      230
##
  theta[93,7]
                      2.080 1.008
                                      510
  theta[94,7]
                      2.085 1.004
                                      790
## theta[95,7]
                      3.326 1.013
                                      200
   theta[96,7]
##
                      1.908 1.003
                                      980
   theta[97,7]
                      0.785 1.010
                                      280
   theta[98,7]
                     -0.289 1.007
                                      450
   theta[99,7]
                      1.852 1.004
                                      960
                                      110
##
   theta[100,7]
                     -0.353 1.025
   theta[101,7]
                     -0.097 1.005
                                      630
   theta[102,7]
                      3.020 1.016
                                      170
   theta[103,7]
                      0.052 1.008
                                      320
   theta[104,7]
                      1.996 1.012
                                      230
   theta[105,7]
                      0.700 1.002
                                     2200
   theta[106,7]
                      0.976 1.009
                                      290
   theta[107,7]
                     -0.003 1.048
                                       58
   theta[108,7]
##
                      3.136 1.011
                                      250
   theta[109,7]
                      1.436 1.010
                                      270
## theta[110,7]
                      0.860 1.003
                                     1100
## theta[111,7]
                     -0.132 1.007
                                      380
  theta[112,7]
                     -0.876 1.023
                                      120
##
   theta[113,7]
                      0.883 1.002
                                     1700
   theta[114,7]
                      0.793 1.009
                                      280
   theta[115,7]
##
                      0.565 1.002
                                     2400
   theta[116,7]
                      2.007 1.014
                                      200
   theta[117,7]
                     -0.777 1.021
                                      140
   theta[118,7]
                      0.700 1.002
                                     1800
##
   theta[119,7]
                      1.040 1.005
                                      530
   theta[120,7]
                     -0.902 1.015
                                      180
   theta[121,7]
                     -0.586 1.021
                                      130
   theta[122,7]
                      0.187 1.003
                                     1100
   theta[123,7]
##
                     -0.029 1.010
                                      290
   theta[124,7]
                      3.214 1.009
                                      280
## theta[125,7]
                      1.127 1.012
                                      220
## theta[126,7]
                      1.559 1.010
                                      270
```

```
## theta[127,7]
                      2.280 1.013
                                      200
## theta[128,7]
                      1.600 1.013
                                      210
   theta[129,7]
                      0.578 1.005
                                      800
  theta[130,7]
                      1.013 1.013
                                      200
##
   theta[131,7]
                      0.117 1.002
                                     1900
   theta[132,7]
                      1.228 1.012
                                      240
   theta[133,7]
                      0.103 1.006
                                      490
  theta[134,7]
                     -0.704 1.016
                                      160
   theta[135,7]
                     -0.647 1.016
                                      160
   theta[136,7]
                      2.031 1.002
                                    2000
   theta[137,7]
                      0.785 1.003
                                      840
   theta[138,7]
                      2.544 1.009
                                      300
   theta[139,7]
                     -0.693 1.015
                                      180
##
                      2.471 1.007
   theta[140,7]
                                      420
   theta[141,7]
                      0.775 1.010
                                      270
   theta[142,7]
                      1.501 1.007
                                      380
   theta[143,7]
                     -0.163 1.021
                                      130
   theta[144,7]
                     -0.258 1.009
                                      300
  theta[145,7]
                      0.097 1.006
                                      560
  theta[146,7]
                      1.222 1.006
                                      430
   theta[147,7]
                      2.066 1.004
                                      760
  theta[148,7]
                     -0.869 1.021
                                      140
  theta[149,7]
                      1.363 1.011
                                      240
   theta[150,7]
##
                      3.406 1.014
                                      200
   theta[151,7]
                      1.488 1.003
                                      940
   theta[152,7]
                      1.855 1.010
                                      260
   theta[153,7]
                      1.658 1.020
                                      130
##
   theta[154,7]
                      1.567 1.012
                                      210
   theta[155,7]
                      0.735 1.001
                                     4000
   theta[156,7]
                      2.112 1.005
                                      770
   theta[157,7]
                      1.343 1.004
                                     1200
   theta[158,7]
                      0.373 1.003
                                     1300
   theta[159,7]
                      0.950 1.005
                                      600
   theta[160,7]
                      2.407 1.007
                                      460
   theta[161,7]
                      1.782 1.002
                                    2100
##
   theta[162,7]
                      1.082 1.009
                                      330
   theta[163,7]
                      2.051 1.007
                                      480
## theta[164,7]
                                      680
                      2.428 1.004
## theta[165,7]
                     -0.879 1.023
                                      140
  theta[166,7]
                     -0.708 1.009
                                      340
##
   theta[167,7]
                     -0.522 1.013
                                      210
   theta[168,7]
                      3.201 1.006
                                      470
##
   theta[169,7]
                      0.978 1.012
                                      220
   theta[170,7]
                     -0.886 1.013
                                      200
   theta[171,7]
                     -0.009 1.002
                                     1400
   theta[172,7]
                      1.496 1.008
                                      340
##
   theta[173,7]
                      3.226 1.012
                                      250
   theta[174,7]
                      0.618 1.006
                                      520
   theta[175,7]
                      0.144 1.001
                                    4000
   theta[176,7]
                      0.749 1.005
                                      610
                                     1500
##
   theta[177,7]
                      1.127 1.003
  theta[178,7]
                     -0.019 1.012
                                      240
## theta[179,7]
                      1.323 1.009
                                      300
## theta[180,7]
                      1.997 1.012
                                      250
```

```
## theta[181,7]
                     -0.633 1.030
                                       89
## theta[182,7]
                      1.586 1.005
                                      600
  theta[183,7]
                      0.760 1.005
                                      510
  theta[184,7]
                      2.977 1.011
                                      240
                      2.345 1.015
##
   theta[185,7]
                                      180
   theta[186,7]
##
                      2.309 1.003
                                      960
  theta[187,7]
                     -0.205 1.012
                                      230
  theta[188,7]
                      0.211 1.006
                                      450
   theta[189,7]
                      3.365 1.015
                                      180
   theta[190,7]
                      3.218 1.008
                                      330
   theta[191,7]
                      1.140 1.005
                                      520
   theta[192,7]
                      2.480 1.011
                                      300
   theta[193,7]
                      2.313 1.024
                                      110
   theta[194,7]
                      0.301 1.004
                                      920
   theta[195,7]
                                      370
                     -0.379 1.009
   theta[196,7]
                      2.489 1.008
                                      340
   theta[197,7]
                      2.236 1.015
                                      190
   theta[198,7]
                      3.178 1.010
                                      250
  theta[199,7]
                      2.571 1.012
                                      220
##
  theta[200,7]
                      0.046 1.016
                                      170
##
  theta[201,7]
                      3.166 1.004
                                      820
  theta[202,7]
                      1.442 1.006
                                      470
  theta[203,7]
##
                      1.436 1.002
                                    2000
   theta[204,7]
                      2.043 1.014
                                      200
   theta[205,7]
                      0.799 1.001
                                    3200
   theta[206,7]
                      1.407 1.030
                                       87
  theta[207,7]
                      1.385 1.002
                                    1400
##
   theta[208,7]
                      0.089 1.030
                                      89
   theta[209,7]
                                      480
                      1.388 1.006
   theta[210,7]
                      3.211 1.012
                                      240
   theta[211,7]
                     -0.170 1.020
                                      140
##
   theta[212,7]
                      0.782 1.002
                                     1500
   theta[213,7]
                      3.205 1.006
                                      440
   theta[214,7]
                      1.999 1.016
                                      170
   theta[215,7]
                     -0.207 1.014
                                      240
   theta[216,7]
##
                      3.372 1.013
                                      240
   theta[217,7]
                     -0.729 1.031
                                       94
## theta[218,7]
                      1.958 1.013
                                      210
  theta[219,7]
                      0.279 1.005
                                      720
  theta[220,7]
                                      640
##
                      0.630 1.004
   theta[221,7]
                      0.966 1.005
                                      620
   theta[222,7]
                      1.889 1.010
                                      280
   theta[223,7]
##
                      3.366 1.013
                                      250
   theta[224,7]
                     -0.796 1.015
                                      170
   theta[225,7]
                      2.033 1.014
                                      200
   theta[226,7]
                      0.146 1.011
                                      240
##
   theta[227,7]
                     -0.888 1.022
                                      150
   theta[228,7]
                     -0.062 1.008
                                      320
   theta[229,7]
                      1.971 1.011
                                      260
   theta[230,7]
                      1.034 1.007
                                      370
##
   theta[231,7]
                     -0.853 1.032
                                       92
  theta[232,7]
                      1.366 1.002
                                     1500
## theta[233,7]
                      0.325 1.007
                                      420
## theta[234,7]
                      1.463 1.006
                                      480
```

```
## theta[235,7]
                      0.066 1.013
                                      200
                                      71
## theta[236,7]
                      0.097 1.039
                      0.539 1.023
  theta[237,7]
                                     110
  theta[238,7]
                      2.080 1.015
                                      180
##
   theta[239,7]
                      0.043 1.001
                                    2700
   theta[240,7]
                      0.142 1.012
                                     220
  theta[241,7]
                      1.187 1.002
                                     1600
## theta[242,7]
                      1.416 1.006
                                      490
   theta[243,7]
                      1.448 1.001
                                    2500
   theta[244,7]
                      0.547 1.003
                                     1000
   theta[245,7]
                      2.618 1.006
                                     510
   theta[246,7]
                     -0.719 1.016
                                      170
   theta[247,7]
                      1.705 1.015
                                      180
                      1.913 1.003
   theta[248,7]
                                      960
   theta[249,7]
                     -0.392 1.025
                                      110
   theta[250,7]
                     -0.145 1.010
                                      270
                                       79
   theta[251,7]
                     -0.646 1.034
   theta[252,7]
                      1.173 1.002
                                    2100
                                      78
  theta[253,7]
                     -0.499 1.034
  theta[254,7]
                      1.155 1.008
                                     330
  theta[255,7]
                      0.031 1.002
                                    2100
  theta[256,7]
                      1.367 1.006
                                      480
  theta[257,7]
                      3.174 1.011
                                      280
   theta[258,7]
                      0.943 1.006
                                      450
   theta[259,7]
                      0.906 1.005
                                      590
   theta[260,7]
                      1.712 1.022
                                      120
  theta[261,7]
                     -0.190 1.006
                                      440
##
   theta[262,7]
                      1.159 1.008
                                      360
   theta[263,7]
                      0.586 1.004
                                      650
   theta[264,7]
                     -0.255 1.014
                                      190
   theta[265,7]
                     -0.250 1.003
                                     1400
   theta[266,7]
                      2.246 1.009
                                      310
   theta[267,7]
                      2.490 1.011
                                      260
   theta[268,7]
                                      230
                      0.306 1.012
   theta[269,7]
                      1.414 1.004
                                      680
##
   theta[270,7]
                      1.245 1.005
                                     530
  theta[271,7]
                      0.195 1.005
                                      520
## theta[272,7]
                      0.550 1.001
                                     4000
## theta[273,7]
                      2.430 1.004
                                     820
  theta[274,7]
                     -0.106 1.020
##
                                      140
   theta[275,7]
                      3.334 1.012
                                      270
   theta[276,7]
                      0.757 1.002
                                     1800
   theta[277,7]
                      1.924 1.006
                                     430
   theta[278,7]
                      3.290 1.011
                                      290
   theta[279,7]
                      2.524 1.011
                                      290
   theta[280,7]
                      3.138 1.009
                                      310
##
   theta[281,7]
                      2.473 1.011
                                      260
   theta[282,7]
                      3.193 1.006
                                      470
   theta[283,7]
                      1.012 1.008
                                     400
   theta[284,7]
                      2.087 1.001
                                    3000
##
   theta[285,7]
                      0.158 1.003
                                     1200
  theta[286,7]
                     -0.409 1.039
                                       68
## theta[287,7]
                      1.088 1.003
                                    2200
## theta[288,7]
                      1.887 1.017
                                      150
```

```
## theta[289,7]
                      1.290 1.011
                                      250
## theta[290,7]
                      1.969 1.010
                                      270
   theta[291,7]
                     -0.891 1.011
                                      260
  theta[292,7]
                      0.346 1.009
                                      360
##
   theta[293,7]
                      0.603 1.004
                                      770
   theta[294,7]
                      0.361 1.005
                                      540
   theta[295,7]
                      2.343 1.013
                                      210
   theta[296,7]
                     -0.365 1.033
                                      80
   theta[297,7]
                     -0.531 1.014
                                      190
   theta[298,7]
                      0.790 1.019
                                      140
   theta[299,7]
                     -0.262 1.036
                                      77
                                      570
   theta[300,7]
                      1.365 1.005
   theta[301,7]
                      2.466 1.011
                                      300
##
   theta[302,7]
                      2.225 1.012
                                      230
   theta[303,7]
                                     4000
                      1.452 1.001
   theta[304,7]
                      0.076 1.020
                                      130
   theta[305,7]
                      1.760 1.001
                                    4000
   theta[306,7]
                      1.447 1.012
                                      220
                      0.252 1.008
   theta[307,7]
                                      340
##
  theta[308,7]
                      0.539 1.001
                                    4000
##
   theta[309,7]
                     -0.574 1.011
                                      240
   theta[310,7]
                      0.365 1.002
                                     1400
  theta[311,7]
                      1.484 1.002
                                     1800
   theta[312,7]
##
                     -0.702 1.012
                                      210
   theta[313,7]
                      1.764 1.004
                                      700
   theta[314,7]
                      0.274 1.004
                                      740
   theta[315,7]
                      1.914 1.003
                                      870
##
   theta[316,7]
                      0.566 1.008
                                      340
   theta[317,7]
                      0.753 1.004
                                      710
   theta[318,7]
                      1.770 1.008
                                      390
   theta[319,7]
                      1.372 1.013
                                      210
   theta[320,7]
                      0.422 1.003
                                    1300
   theta[321,7]
                      0.448 1.007
                                      410
   theta[322,7]
                      2.131 1.015
                                      180
   theta[323,7]
                      2.523 1.010
                                      310
##
   theta[324,7]
                      1.602 1.002
                                    1400
   theta[325,7]
                      2.154 1.014
                                      190
  theta[326,7]
                      0.599 1.006
                                      580
  theta[327,7]
                     -0.659 1.032
                                       85
   theta[328,7]
                      1.118 1.007
                                      470
##
   theta[329,7]
                      0.664 1.002
                                    2000
   theta[330,7]
                      0.424 1.003
                                    1300
   theta[331,7]
##
                      1.068 1.009
                                      300
   theta[332,7]
                      0.873 1.009
                                      310
   theta[333,7]
                      0.544 1.003
                                     2300
   theta[334,7]
                     -0.795 1.015
                                      180
##
   theta[335,7]
                      1.495 1.005
                                      540
   theta[336,7]
                      0.881 1.002
                                     1800
   theta[337,7]
                     -0.071 1.007
                                      410
   theta[338,7]
                      0.160 1.004
                                      670
                                      720
##
   theta[339,7]
                      1.143 1.004
  theta[340,7]
                      2.460 1.016
                                      180
## theta[341,7]
                      2.491 1.011
                                      230
## theta[342,7]
                     -0.768 1.018
                                      150
```

```
## theta[343,7]
                     -0.578 1.014
                                      190
## theta[344,7]
                      1.625 1.005
                                      510
  theta[345,7]
                     -0.593 1.015
                                      180
  theta[346,7]
                      2.265 1.013
                                      220
##
   theta[347,7]
                      0.023 1.013
                                      210
   theta[348,7]
##
                      0.904 1.003
                                     1200
   theta[349,7]
                      0.657 1.010
                                      270
   theta[350,7]
                      2.107 1.006
                                      520
   theta[351,7]
                      2.985 1.022
                                      120
   theta[352,7]
                      0.536 1.007
                                      540
   theta[353,7]
                     -0.605 1.010
                                      280
                                      400
   theta[354,7]
                      2.525 1.007
   theta[355,7]
                      0.842 1.003
                                      900
##
   theta[356,7]
                      1.765 1.002
                                     1700
   theta[357,7]
                      0.733 1.003
                                     2100
   theta[358,7]
                      3.225 1.018
                                      170
                                    2400
##
   theta[359,7]
                      1.911 1.002
   theta[360,7]
                      1.377 1.003
                                     1200
                      1.269 1.003
   theta[361,7]
                                     1200
##
  theta[362,7]
                      1.221 1.002
                                     4000
##
   theta[363,7]
                      2.285 1.007
                                      410
  theta[364,7]
                      0.159 1.003
                                     1200
  theta[365,7]
                      1.666 1.005
                                      520
   theta[366,7]
##
                      1.651 1.009
                                      320
   theta[367,7]
                      0.353 1.006
                                      490
   theta[368,7]
                      1.891 1.003
                                     1800
   theta[369,7]
                      2.453 1.008
                                      370
##
   theta[370,7]
                      2.510 1.008
                                      320
   theta[371,7]
                                      300
                      0.323 1.009
   theta[372,7]
                      0.402 1.005
                                      600
   theta[373,7]
                      0.548 1.001
                                     4000
   theta[374,7]
                      1.720 1.005
                                      570
   theta[375,7]
                      2.352 1.015
                                      180
   theta[376,7]
                      2.056 1.008
                                      340
   theta[377,7]
                      0.391 1.006
                                      470
##
##
   theta[378,7]
                      1.287 1.011
                                      240
   theta[379,7]
                      1.632 1.009
                                      310
## theta[380,7]
                      0.304 1.007
                                      390
  theta[381,7]
                      0.701 1.003
                                      960
##
                                      430
##
   theta[382,7]
                      0.865 1.007
                      2.227 1.008
                                      320
   theta[383,7]
   theta[384,7]
                      2.176 1.006
                                      490
   theta[385,7]
##
                      1.770 1.007
                                      390
   theta[386,7]
                      0.968 1.003
                                      940
   theta[387,7]
                      0.411 1.009
                                      280
   theta[388,7]
                      0.946 1.001
                                     3100
##
   theta[389,7]
                      2.508 1.007
                                      410
   theta[390,7]
                      0.914 1.014
                                      200
   theta[391,7]
                      0.719 1.001
                                     3500
   theta[392,7]
                      0.282 1.003
                                     1200
##
   theta[393,7]
                      0.343 1.008
                                      320
   theta[394,7]
                      3.269 1.012
                                      220
## theta[395,7]
                     -0.563 1.010
                                      270
## theta[396,7]
                      3.204 1.017
                                      210
```

```
## theta[397,7]
                     -0.592 1.018
                                      150
## theta[398,7]
                      1.143 1.006
                                      540
  theta[399,7]
                     -0.753 1.019
                                      140
## theta[400,7]
                      1.836 1.005
                                      620
##
   theta[401,7]
                      0.659 1.009
                                      290
   theta[402,7]
##
                      0.907 1.003
                                      860
  theta[403,7]
                      1.733 1.004
                                      770
  theta[404,7]
                      0.598 1.004
                                      790
   theta[405,7]
                      2.003 1.008
                                      340
   theta[406,7]
                     -0.644 1.024
                                      110
   theta[407,7]
                      0.673 1.002
                                     1900
   theta[408,7]
                                      120
                     -0.629 1.021
##
   theta[409,7]
                      1.573 1.001
                                    4000
                      2.636 1.020
   theta[410,7]
                                      130
   theta[411,7]
                      0.619 1.002
                                     3000
   theta[412,7]
                      0.515 1.004
                                      800
   theta[413,7]
##
                      2.989 1.015
                                      180
   theta[414,7]
                     -0.103 1.008
                                      390
  theta[415,7]
                     -0.700 1.015
                                      180
##
  theta[416,7]
                      0.788 1.004
                                      770
##
  theta[417,7]
                      0.394 1.008
                                      380
  theta[418,7]
                      0.135 1.017
                                      150
  theta[419,7]
##
                      1.128 1.003
                                      870
   theta[420,7]
##
                      0.232 1.006
                                      460
##
   theta[421,7]
                     -0.691 1.010
                                      260
   theta[422,7]
                      1.405 1.008
                                      370
   theta[423,7]
                     -0.647 1.016
                                      170
##
   theta[424,7]
                      0.616 1.003
                                      850
   theta[425,7]
                      0.609 1.007
                                      390
   theta[426,7]
                     -0.659 1.028
                                      100
   theta[427,7]
                      0.227 1.003
                                     1200
##
   theta[428,7]
                      1.975 1.007
                                      370
   theta[429,7]
                      2.240 1.008
                                      380
   theta[430,7]
                      0.484 1.006
                                      440
   theta[431,7]
                      3.281 1.013
                                      210
   theta[432,7]
##
                      1.989 1.005
                                      690
   theta[433,7]
                      1.976 1.002
                                     1500
## theta[434,7]
                      2.229 1.011
                                      300
## theta[435,7]
                     -0.643 1.020
                                      140
  theta[436,7]
                     -0.643 1.020
                                      130
##
   theta[437,7]
                      0.548 1.002
                                    1700
   theta[438,7]
                      1.331 1.003
                                    1100
##
   theta[439,7]
                      1.349 1.003
                                      890
   theta[440,7]
                      1.852 1.014
                                      210
   theta[441,7]
                     -0.588 1.010
                                      280
  theta[442,7]
                     -0.653 1.024
                                      110
##
   theta[443,7]
                      1.691 1.006
                                      480
   theta[444,7]
                      1.851 1.005
                                      530
                      2.549 1.011
   theta[445,7]
                                      280
   theta[446,7]
                     -0.638 1.024
                                      110
##
   theta[447,7]
                      1.576 1.007
                                      370
## theta[448,7]
                      1.741 1.002
                                     1800
## theta[449,7]
                      0.526 1.019
                                      140
## theta[450,7]
                      0.470 1.002
                                    1500
```

```
## theta[451,7]
                      0.114 1.004
                                      760
## theta[452,7]
                      0.567 1.003
                                      870
  theta[453,7]
                      1.726 1.001
                                     2700
  theta[454,7]
                     -0.652 1.022
                                      130
##
   theta[455,7]
                      0.103 1.006
                                      610
   theta[456,7]
##
                      1.809 1.003
                                      980
   theta[457,7]
                      0.863 1.002
                                     2600
  theta[458,7]
                      2.246 1.004
                                      720
   theta[459,7]
                      1.598 1.002
                                    2000
   theta[460,7]
                      1.311 1.003
                                      990
   theta[461,7]
                      1.831 1.006
                                      430
   theta[462,7]
                      0.084 1.007
                                      460
   theta[463,7]
                      0.256 1.005
                                      600
                      1.410 1.008
   theta [464,7]
                                      340
   theta[465,7]
                      1.357 1.005
                                      510
   theta[466,7]
                      1.994 1.010
                                      270
   theta[467,7]
                                    2500
##
                      0.721 1.001
   theta[468,7]
                      2.527 1.015
                                      180
  theta[469,7]
                      1.307 1.006
                                      450
##
  theta[470,7]
                      1.492 1.005
                                      760
##
  theta[471,7]
                      1.853 1.003
                                     1000
  theta[472,7]
                      2.253 1.009
                                      380
  theta[473,7]
##
                      1.773 1.024
                                      110
   theta[474,7]
##
                      1.770 1.025
                                      100
##
   theta[475,7]
                     -0.698 1.022
                                      140
   theta[476,7]
                      2.488 1.010
                                      300
   theta[477,7]
                      1.277 1.002
                                     2300
##
   theta[478,7]
                      1.642 1.006
                                      440
   theta[479,7]
                      0.666 1.003
                                     1100
   theta[480,7]
                      2.186 1.020
                                      130
   theta[481,7]
                      2.120 1.005
                                      550
##
   theta[482,7]
                      0.157 1.011
                                      280
   theta[483,7]
                      0.983 1.005
                                      540
                      1.129 1.005
   theta[484,7]
                                      550
   theta[485,7]
                      1.163 1.002
                                     1600
   theta[486,7]
##
                      0.799 1.003
                                      870
   theta[487,7]
                      1.540 1.007
                                      370
## theta[488,7]
                      0.612 1.005
                                      550
  theta[489,7]
                      2.030 1.009
                                      300
  theta[490,7]
##
                      0.324 1.005
                                      600
   theta[491,7]
                     -0.624 1.028
                                      100
   theta[492,7]
                      1.372 1.002
                                     1700
##
   theta[493,7]
                     -0.771 1.008
                                      380
   theta[494,7]
                      1.203 1.005
                                      530
   theta[495,7]
                     -0.469 1.029
                                      95
   theta[496,7]
                      1.553 1.005
                                      640
##
   theta[497,7]
                     -0.736 1.022
                                      120
   theta[498,7]
                     -0.753 1.009
                                      320
   theta[499,7]
                     -0.791 1.026
                                      100
   theta[500,7]
                      0.114 1.008
                                      420
##
   theta[501,7]
                      1.371 1.002
                                    2300
  theta[502,7]
                      0.280 1.003
                                     1200
## theta[503,7]
                     -0.770 1.017
                                      170
## theta[504,7]
                      0.313 1.007
                                      450
```

```
## theta[505,7]
                     -0.528 1.013
                                      200
## theta[506,7]
                                      100
                     -0.756 1.028
  theta[507,7]
                      0.085 1.004
                                      850
  theta[508,7]
                      0.357 1.005
                                      540
##
   theta[509,7]
                     -0.786 1.024
                                      110
   theta[510,7]
##
                     -0.576 1.005
                                      530
  theta[511,7]
                      0.589 1.005
                                      600
                      0.385 1.005
  theta[512,7]
                                      620
   theta[513,7]
                      1.263 1.003
                                      850
   theta[514,7]
                      0.511 1.010
                                      290
   theta[515,7]
                      0.454 1.007
                                      410
   theta[516,7]
                      0.471 1.003
                                     1500
   theta[517,7]
                     -0.342 1.017
                                      180
##
   theta[518,7]
                      1.018 1.003
                                      980
   theta[519,7]
                     -0.782 1.023
                                      120
   theta[520,7]
                      1.566 1.005
                                      790
   theta[521,7]
##
                     -0.427 1.011
                                      240
   theta[522,7]
                     -0.490 1.017
                                      170
  theta[523,7]
                     -0.549 1.014
                                      220
##
  theta[524,7]
                     -0.626 1.025
                                      110
##
  theta[525,7]
                     -0.636 1.010
                                      270
  theta[526,7]
                     -0.508 1.019
                                      150
  theta[527,7]
##
                      1.077 1.005
                                      560
   theta[528,7]
##
                      1.088 1.004
                                      820
   theta[529,7]
                     -0.511 1.014
                                      210
   theta[530,7]
                     -0.597 1.017
                                      170
   theta[531,7]
                     -0.540 1.015
                                      190
##
   theta[532,7]
                     -0.884 1.027
                                      100
   theta[533,7]
                      1.630 1.003
                                      970
   theta[534,7]
                     -0.842 1.020
                                      150
   theta[535,7]
                      1.610 1.002
                                     1300
   theta[536,7]
                      1.049 1.003
                                     1100
   theta[1,8]
                      0.648 1.022
                                      130
  theta[2,8]
                      1.122 1.105
                                       32
   theta[3,8]
                      1.246 1.100
                                       31
##
  theta[4,8]
                      1.323 1.018
                                      150
## theta[5,8]
                      0.982 1.177
                                       20
## theta[6,8]
                      1.016 1.126
                                       26
## theta[7,8]
                      1.511 1.163
                                       22
  theta[8,8]
##
                      1.515 1.254
                                       15
  theta[9,8]
                      0.785 1.086
                                       36
   theta[10,8]
                      1.094 1.073
                                       42
##
   theta[11,8]
                      1.646 1.087
                                       36
   theta[12,8]
                      1.455 1.008
                                      420
  theta[13,8]
                      0.862 1.027
                                      110
  theta[14,8]
                      1.032 1.208
                                       17
##
   theta[15,8]
                      1.099 1.138
                                       24
   theta[16,8]
                      0.512 1.043
                                       66
   theta[17,8]
                      1.585 1.254
                                       15
   theta[18,8]
                      1.032 1.069
                                       44
##
   theta[19,8]
                      0.782 1.079
                                       39
## theta[20,8]
                      1.608 1.212
                                       18
## theta[21,8]
                      1.416 1.078
                                       41
## theta[22,8]
                      1.354 1.025
                                      120
```

##	theta[23,8]	2.405 1.217	17
##	theta[24,8]	0.584 1.009	560
##	theta[25,8]	1.399 1.011	260
##	theta[26,8]	1.648 1.189	19
##	theta[27,8]	1.136 1.067	45
##	theta[28,8]	1.874 1.239	16
##	theta[29,8]	0.911 1.081	38
##	theta[30,8]	2.563 1.193	19
##	theta[31,8]	0.769 1.079	38
##	theta[32,8]	2.330 1.164	22
##	theta[33,8]	1.551 1.067	47
##	theta[34,8]	0.712 1.044	68
##	theta[35,8]	1.545 1.046	66
##			130
	theta[36,8]	1.859 1.023	
##	theta[37,8]	0.423 1.024	120
##	theta[38,8]	1.646 1.042	69
##	theta[39,8]	1.807 1.093	35
##	theta[40,8]	0.952 1.041	69
##	theta[41,8]	1.543 1.170	21
##	theta[42,8]	2.456 1.185	19
##	theta[43,8]	1.918 1.159	22
##	theta[44,8]	0.992 1.158	22
##	theta[45,8]	1.166 1.035	83
##	theta[46,8]	0.808 1.038	75
##	theta[47,8]	0.777 1.077	41
##	theta[48,8]	0.383 1.028	100
##	theta[49,8]	1.646 1.141	24
##	theta[50,8]	0.358 1.040	75
##	theta[51,8]	1.775 1.171	21
##	theta[52,8]	1.630 1.129	26
##	theta[53,8]	1.198 1.119	28
##	theta[54,8]	1.243 1.148	23
##	theta[55,8]	0.275 1.008	420
##	theta[56,8]	2.380 1.201	18
##	theta[57,8]	1.819 1.135	25
##	theta[58,8]	1.595 1.212	17
		0.913 1.045	64
##	theta[59,8]		
##	theta[60,8]	1.069 1.053	58
##	theta[61,8]	1.169 1.154	22
##	theta[62,8]	1.768 1.154	22
##	theta[63,8]	1.504 1.115	29
##	theta[64,8]	1.731 1.095	34
##	theta[65,8]	1.475 1.020	150
##	theta[66,8]	0.565 1.024	120
##	theta[67,8]	1.549 1.069	44
##	theta[68,8]	1.567 1.177	20
##	theta[69,8]	1.876 1.214	18
##	theta[70,8]	0.711 1.048	63
##	theta[71,8]	1.076 1.061	50
##	theta[72,8]	1.150 1.076	40
##	theta[73,8]	1.650 1.231	16
##	theta[74,8]	1.729 1.148	23
##	theta[75,8]	0.818 1.114	29
##	theta[76,8]	1.796 1.200	18
	- , -		

##	theta[77,8]	1.283	1.035	83
##	theta[78,8]	1.108	1.052	60
##	theta[79,8]	2.474	1.201	18
##	theta[80,8]	0.726	1.046	63
##	theta[81,8]	0.825	1.129	26
##	theta[82,8]	1.072	1.037	73
##	theta[83,8]	1.599	1.182	20
##	theta[84,8]	1.392	1.114	28
##	theta[85,8]	1.357	1.015	190
##	theta[86,8]	0.680	1.058	52
##	theta[87,8]	0.971	1.035	86
##	theta[88,8]	1.049	1.081	39
##	theta[89,8]	2.561	1.188	19
##	theta[90,8]	1.573	1.094	34
##	theta[91,8]	1.152	1.002	2200
##	theta[92,8]	0.944	1.128	26
##	theta[93,8]	1.742	1.087	37
##	theta[94,8]	1.892	1.135	25
##	theta[95,8]	2.416	1.187	19
##	theta[96,8]	1.153	1.124	27
##	theta[97,8]	0.512	1.042	64
##	theta[98,8]	0.818	1.082	40
##	theta[99,8]	1.780	1.066	46
##	theta[100,8]	1.335	1.233	16
##	theta[101,8]	1.350	1.092	34
##	theta[102,8]	2.387	1.234	16
##	theta[103,8]	1.067	1.042	68
##	theta[104,8]	1.483	1.186	19
##	theta[105,8]	1.185	1.013	250
##	theta[106,8]	1.016	1.034	84
##	theta[107,8]	1.853	1.232	16
##	theta[108,8]	2.442	1.194	19
##	theta[109,8]	1.335	1.069	45
##	theta[110,8]	1.324	1.017	170
##	theta[111,8]	0.977	1.145	24
##	theta[112,8]	1.836	1.212	18
##	theta[113,8]	1.102	1.043	65
##	theta[114,8]	0.507	1.013	210
##	theta[115,8]	1.213	1.003	2700
##	theta[116,8]	1.426	1.181	20
##	theta[117,8]	1.575	1.199	18
##	theta[118,8]	0.345	1.013	210
##	theta[119,8]	0.611	1.015	85
##	theta[120,8]	1.835	1.217	17
##	theta[121,8]	1.561	1.154	23
##	theta[121,8]	0.622	1.050	61
##	theta[123,8]	1.032	1.115	28
##	theta[124,8]	2.416	1.115	20
##				
	theta[125,8]	1.409	1.080	40
##	theta[126,8]	1.092	1.103	32
##	theta[127,8]	1.766	1.152	23
##	theta[128,8]	1.124	1.163	21
##	theta[129,8]	0.579	1.023	130
##	theta[130,8]	1.431	1.098	34

##	theta[131,8]	0.537 1.037	80
##	theta[132,8]	1.080 1.080	40
##	theta[133,8]	0.912 1.019	150
##	theta[134,8]	1.604 1.207	18
##	theta[135,8]	1.670 1.150	23
##	theta[136,8]	1.883 1.123	27
##	theta[137,8]	0.827 1.027	100
##	theta[138,8]	1.675 1.147	23
##	theta[139,8]	1.616 1.133	25
##	theta[140,8]	2.186 1.153	23
##	theta[141,8]	1.208 1.005	540
##	theta[142,8]	1.282 1.140	24
##	theta[143,8]	0.988 1.155	22
##	theta[144,8]	1.100 1.088	36
##	theta[145,8]	0.556 1.068	44
##			48
	theta[146,8]		
##	theta[147,8]	1.929 1.059	50
##	theta[148,8]	1.836 1.222	17
##	theta[149,8]	1.247 1.094	34
##	theta[150,8]	2.414 1.211	18
##	theta[151,8]	1.640 1.049	61
##	theta[152,8]	1.305 1.202	18
##	theta[153,8]	1.409 1.215	17
##	theta[154,8]	1.959 1.128	26
##	theta[155,8]	1.136 1.051	59
##	theta[156,8]	1.451 1.109	30
##	theta[157,8]	1.371 1.089	35
##	theta[158,8]	0.503 1.050	58
##	theta[159,8]	0.883 1.008	480
##	theta[160,8]	1.436 1.133	25
##	theta[161,8]	1.628 1.084	39
##	theta[162,8]	1.213 1.046	64
##	theta[163,8]	1.850 1.119	28
##	theta[164,8]	2.156 1.129	26
##	theta[165,8]	1.817 1.227	17
##	theta[166,8]	1.696 1.133	26
##	theta[167,8]	1.014 1.120	27
##	theta[168,8]	2.460 1.173	21
##	theta[169,8]	1.504 1.096	34
##	theta[170,8]	1.836 1.225	17
##	theta[171,8]	0.460 1.023	140
##	theta[172,8]	1.142 1.105	32
##	theta[173,8]	2.422 1.192	19
##	theta[174,8]	0.523 1.019	160
##	theta[175,8]	0.686 1.007	490
##	theta[176,8]	0.348 1.021	140
##	theta[177,8]	0.655 1.026	110
##	theta[178,8]	1.632 1.107	31
##		1.200 1.063	49
	theta[179,8]		
##	theta[180,8]	1.235 1.158	22
##	theta[181,8]	1.598 1.236	16 76
##	theta[182,8]	1.151 1.038	76
##	theta[183,8]	1.105 1.040	69
##	theta[184,8]	2.305 1.234	16

##	theta[185,8]	1.780 1.15	6 22
##	theta[186,8]	1.719 1.10	
##	theta[187,8]	1.654 1.12	1 28
##	theta[188,8]	0.536 1.05	4 56
##	theta[189,8]	2.457 1.18	6 19
##	theta[190,8]	2.458 1.19	5 19
##	theta[191,8]	1.543 1.04	7 63
##	theta[192,8]	1.777 1.15	7 22
##	theta[193,8]	2.070 1.21	7 17
##	theta[194,8]	0.351 1.01	1 340
##	theta[195,8]	1.246 1.08	3 37
##	theta[196,8]	1.850 1.14	7 24
##	theta[197,8]	1.704 1.15	2 23
##	theta[198,8]	2.381 1.19	2 19
##	theta[199,8]	1.569 1.13	5 25
##	theta[200,8]	1.175 1.13	3 25
##	theta[201,8]	2.405 1.17	6 21
##	theta[202,8]	1.389 1.11	7 28
##	theta[203,8]	1.597 1.08	
##	theta[204,8]	1.425 1.17	
##	theta[205,8]	0.354 1.02	
##	theta[206,8]	1.029 1.14	
##	theta[207,8]	0.939 1.01	
##	theta[208,8]	1.740 1.10	
##	theta[209,8]	1.412 1.05	
##	theta[210,8]	2.422 1.18	
##	theta[211,8]	0.877 1.11	
##	theta[212,8]	1.055 1.00	
##	theta[213,8]	2.349 1.18	
##	theta[214,8]	1.505 1.15	
##	theta[215,8]	1.678 1.11	
##	theta[216,8]	2.552 1.18	
##	theta[217,8]	1.681 1.21	
##	theta[218,8]	1.310 1.16	
##	theta[219,8]	1.730 1.01	
##	theta[220,8]	0.861 1.05	
##	theta[221,8]	0.384 1.01	
##	theta[222,8]	1.336 1.07	
##	theta[223,8]	2.442 1.19	
##	theta[224,8]	1.624 1.18	
##	theta[225,8]	1.713 1.12	
##	theta[226,8]	0.645 1.10	
##	theta[227,8]	1.816 1.22	
##	theta[228,8]	0.819 1.12	
##	theta[229,8]	1.375 1.12	
##	theta[230,8]	1.193 1.01	
##	theta[231,8]	1.828 1.23	
##	theta[231,8] theta[232,8]	1.135 1.00	
##	-		
	theta[233,8]	0.680 1.04	
##	theta[234,8]	0.825 1.07	
##	theta[235,8]	1.274 1.12	
##	theta[236,8]	1.935 1.18	
##	theta[237,8]	1.225 1.05	
##	theta[238,8]	1.369 1.18	7 19

##	theta[239,8]	0.593 1.047	63
##	theta[240,8]	1.183 1.128	26
##	theta[241,8]	1.552 1.041	75
##	theta[242,8]	1.031 1.041	74
##	theta[243,8]	1.031 1.025	110
##	theta[244,8]	0.633 1.036	85
##	theta[245,8]	2.090 1.119	29
##	theta[246,8]	1.682 1.199	19
##	theta[247,8]	0.859 1.127	26
##	theta[248,8]	1.646 1.109	31
##	theta[249,8]	1.387 1.188	19
##	theta[250,8]	1.054 1.101	32
##	theta[251,8]	1.450 1.246	15
##	theta[252,8]	1.360 1.015	230
##	theta[253,8]	1.407 1.209	18
##	theta[254,8]	1.183 1.047	61
##	theta[255,8]	0.952 1.071	43
##	theta[256,8]	1.140 1.111	30
##	theta[257,8]	2.554 1.181	20
##	theta[258,8]	1.724 1.033	86
##	theta[259,8]	0.932 1.059	48
##	theta[260,8]	1.221 1.177	20
##	theta[261,8]	1.068 1.130	26
##	theta[262,8]	1.009 1.122	26
##	theta[263,8]	0.533 1.018	170
##	theta[264,8]	1.043 1.139	25
##	theta[265,8]	0.789 1.067	46
##	theta[266,8]	1.652 1.149	23
##	theta[267,8]	1.825 1.143	24
##	theta[268,8]	1.236 1.124	26
##	theta[269,8]	0.992 1.029	110
##	theta[270,8]	1.279 1.030	100
##	theta[271,8]	1.041 1.043	65
##	theta[272,8]	0.759 1.009	350
##	theta[273,8]	2.193 1.123	28
##	theta[274,8]	1.723 1.123	27
##	theta[275,8]	2.465 1.204	18
##	theta[276,8]		450
##	theta[277,8]	1.098 1.008 1.714 1.083	38
##	theta[278,8]	2.442 1.187	20
##	theta[279,8]	1.757 1.140	25
##	theta[279,8]	2.508 1.201	
	theta[281,8]	1.905 1.145	18
##	theta[282,8]		24
##	· ·	2.298 1.185	20
##	theta[283,8]	0.646 1.028	110
##	theta[284,8]	1.943 1.127	26
##	theta[285,8]	1.153 1.016	180
##	theta[286,8]	1.904 1.249	15 65
##	theta[287,8]	1.102 1.044	65
##	theta[288,8]	1.316 1.165	21
##	theta[289,8]	0.702 1.047	65
##	theta[290,8]	1.265 1.086	37
##	theta[291,8]	1.895 1.211	18
##	theta[292,8]	1.629 1.053	56

##	theta[293,8]	0.643 1.005	780
##	theta[294,8]	0.643 1.047	64
##	theta[295,8]	1.787 1.152	23
##	theta[296,8]	1.352 1.218	17
##	theta[297,8]	1.464 1.152	23
##	theta[298,8]	0.574 1.020	140
##	theta[299,8]	1.713 1.266	15
##	theta[300,8]	1.610 1.051	58
##	theta[301,8]	1.760 1.144	24
##	theta[302,8]	1.772 1.152	23
##	theta[303,8]	1.059 1.005	510
##			30
	theta[304,8]	1.843 1.107	
##	theta[305,8]	1.761 1.080	40
##	theta[306,8]	1.736 1.133	25
##	theta[307,8]	1.165 1.056	54
##	theta[308,8]	0.707 1.035	88
##	theta[309,8]	1.504 1.134	25
##	theta[310,8]	0.552 1.030	96
##	theta[311,8]	1.614 1.055	53
##	theta[312,8]	1.592 1.130	26
##	theta[313,8]	0.999 1.022	130
##	theta[314,8]	1.029 1.040	73
##	theta[315,8]	1.322 1.054	56
##	theta[316,8]	1.229 1.058	51
##	theta[317,8]	0.429 1.009	310
##	theta[318,8]	1.432 1.026	110
##	theta[319,8]	1.127 1.038	77
##	theta[320,8]	0.827 1.034	81
##	theta[321,8]	1.426 1.049	60
##	theta[322,8]	1.340 1.124	27
##	theta[323,8]	1.841 1.150	23
##	theta[324,8]	0.941 1.036	81
##	theta[325,8]	1.720 1.146	24
##	theta[326,8]	0.517 1.019	170
##	theta[327,8]	1.532 1.253	15
##	theta[328,8]	1.016 1.028	100
##	theta[329,8]	1.314 1.010	260
##	theta[330,8]	1.104 1.038	84
##	theta[331,8]	0.929 1.039	78
##	theta[332,8]	1.175 1.030	92
##	theta[333,8]	0.646 1.032	98
		1.592 1.182	
##	theta[334,8]		20
##	theta[335,8]	1.058 1.053	57
##	theta[336,8]	1.083 1.011	230
##	theta[337,8]	1.151 1.071	44
##	theta[338,8]	0.706 1.074	41
##	theta[339,8]	1.194 1.015	180
##	theta[340,8]	1.865 1.164	21
##	theta[341,8]	1.831 1.143	24
##	theta[342,8]	1.607 1.186	19
##	theta[343,8]	1.502 1.136	25
##	theta[344,8]	1.102 1.106	30
##	theta[345,8]	1.524 1.145	23
##	theta[346,8]	1.363 1.126	26

##	theta[347,8]	1.435		41
##	theta[348,8]	1.598	1.006	430
##	theta[349,8]	0.885	1.080	39
##	theta[350,8]	1.515	1.085	37
##	theta[351,8]	2.420	1.222	17
##	theta[352,8]	0.694	1.035	88
##	theta[353,8]	1.607	1.141	24
##	theta[354,8]	1.847	1.158	22
##	theta[355,8]	1.218	1.041	67
##	theta[356,8]	1.317	1.086	36
##	theta[357,8]	0.951	1.005	1100
##	theta[358,8]	2.576	1.225	17
##	theta[359,8]	1.421	1.107	30
##	theta[360,8]	1.365	1.020	150
##	theta[361,8]	1.331	1.091	35
##	theta[362,8]	1.543	1.031	110
##	theta[363,8]	1.496	1.140	24
##	theta[364,8]	0.848	1.041	69
##	theta[365,8]	0.645	1.065	47
##	theta[366,8]	1.271	1.044	66
##	theta[367,8]	0.650	1.036	89
##	theta[368,8]	1.904	1.085	37
##	theta[369,8]	2.164	1.121	28
##	theta[370,8]	1.777	1.130	26
##	theta[371,8]	1.055	1.074	42
##	theta[372,8]	0.838	1.043	69
##	theta[373,8]	1.057	1.054	53
##	theta[374,8]	1.571	1.085	37
##	theta[375,8]	1.796	1.197	18
##	theta[376,8]	1.730	1.115	30
##	theta[377,8]	0.830	1.039	71
##		1.185	1.039	68
	theta[378,8]		1.044	
##	theta[379,8]	1.490		42
##	theta[380,8]	1.025	1.091	34
##	theta[381,8]	1.196	1.048	59
##	theta[382,8]	1.207	1.037	90
##	theta[383,8]	1.401	1.138	24
##	theta[384,8]	2.041	1.107	30
##	theta[385,8]	1.208	1.075	43
##	theta[386,8]	1.615	1.041	74
##	theta[387,8]	0.831	1.036	80
##	theta[388,8]	1.372	1.014	210
##	theta[389,8]	1.821	1.134	26
##	theta[390,8]	0.782	1.047	63
##	theta[391,8]	1.156	1.016	190
##	theta[392,8]	0.691	1.066	46
##	theta[393,8]	0.837	1.038	75
##	theta[394,8]	2.446	1.194	19
##	theta[395,8]	1.527	1.133	26
##	theta[396,8]	2.383	1.198	18
##	theta[397,8]	1.460	1.124	27
##	theta[398,8]	1.400	1.033	91
##	theta[399,8]	1.626	1.211	17
##	theta[400,8]	1.110	1.113	30

##	theta[401,8]	1.420	1.052	56
##	theta[402,8]	1.546	1.016	200
##	theta[403,8]	1.128	1.073	42
##	theta[404,8]	0.580	1.028	110
##	theta[405,8]	1.456	1.119	28
##	theta[406,8]	1.533	1.211	17
##	theta[407,8]	0.608	1.013	300
##	theta[408,8]	1.525	1.241	16
##	theta[409,8]	1.440	1.042	67
##	theta[410,8]	2.441	1.222	17
##	theta[411,8]	1.094	1.034	86
##	theta[412,8]	0.603	1.035	100
##	theta[413,8]	2.352	1.232	16
##	theta[414,8]	0.747	1.083	38
##	theta[415,8]	1.605	1.119	28
##	theta[416,8]	0.454	1.009	340
##	theta[417,8]	0.594	1.004	880
##	theta[418,8]	0.844	1.111	29
##	theta[419,8]	1.352	1.040	76
##	theta[420,8]	0.795	1.020	150
##	theta[421,8]	1.616	1.130	26
##	theta[422,8]	0.984	1.019	140
##	theta[423,8]	1.639	1.158	22
##	theta[424,8]	0.845	1.045	64
##	theta[425,8]	0.859	1.034	80
##	theta[426,8]	1.510	1.238	16
##	theta[427,8]	1.284	1.048	62
##	theta[428,8]	1.633	1.105	31
##	theta[429,8]	1.655	1.125	27
##	theta[430,8]	0.556	1.044	66
##	theta[431,8]	2.416	1.198	18
##	theta[432,8]	1.210	1.059	52
##	theta[433,8]	1.216	1.033	45
##	theta[434,8]	1.690	1.130	26
##	theta[435,8]	1.420	1.130	20
##	theta[436,8]	1.420	1.102	16
##	theta[430,8]	0.639	1.029	100
	theta[438,8]			540
##		1.181	1.006	
	theta[439,8]	1.149	1.115 1.132	29
##	theta[440,8]	1.258		26
##	theta[441,8]	1.506	1.116	28
##	theta[442,8]	1.577	1.241	16
##	theta[443,8]	0.834	1.037	81
##	theta[444,8]	1.695	1.072	42
##	theta[445,8]	1.592	1.146	23
##	theta[446,8]	1.556	1.235	16
##	theta[447,8]	1.504	1.075	42
##	theta[448,8]	1.246	1.033	90
##	theta[449,8]	1.322	1.097	32
##	theta[450,8]	0.432	1.012	240
##	theta[451,8]	0.782	1.073	43
##	theta[452,8]	0.669	1.029	110
##	theta[453,8]	1.327	1.072	42
##	theta[454,8]	1.545	1.240	16

##	theta[455,8]	0.824 1.006	430
##	theta[456,8]	1.615 1.108	30
##	theta[457,8]	0.946 1.007	640
##	theta[458,8]	1.402 1.135	24
##	theta[459,8]	1.542 1.064	47
##	theta[460,8]	1.521 1.014	210
##	theta[461,8]	1.607 1.081	39
##	theta[462,8]	0.860 1.032	89
##	theta[463,8]	0.875 1.033	86
##	theta[464,8]	0.972 1.080	40
##	theta[465,8]	1.444 1.062	50
##	theta[466,8]	1.498 1.111	30
##	theta[467,8]	0.864 1.029	100
##		1.836 1.157	22
	theta[468,8]		
##	theta[469,8]	1.372 1.023	120
##	theta[470,8]	1.460 1.074	43
##	theta[471,8]	1.619 1.078	40
##	theta[472,8]	1.687 1.112	30
##	theta[473,8]	1.529 1.159	22
##	theta[474,8]	1.553 1.165	21
##	theta[475,8]	1.683 1.234	16
##	theta[476,8]	1.905 1.135	25
##	theta[477,8]	1.481 1.013	230
##	theta[478,8]	1.290 1.135	25
##	theta[479,8]	1.167 1.035	86
##	theta[480,8]	1.930 1.153	23
##	theta[481,8]	1.277 1.095	34
##	theta[482,8]	0.691 1.095	33
##	theta[483,8]	1.049 1.022	120
##	theta[484,8]	1.421 1.037	80
##	theta[485,8]	1.400 1.029	100
##	theta[486,8]	0.412 1.020	180
##	theta[487,8]	1.014 1.096	33
##	theta[488,8]	0.808 1.036	80
##	theta[489,8]	1.748 1.108	30
##	theta[490,8]	1.043 1.035	86
##	theta[491,8]	1.523 1.241	16
##	theta[492,8]	1.811 1.080	40
##	theta[493,8]	1.520 1.161	22
##	theta[494,8]	1.369 1.054	55
##	theta[495,8]	1.402 1.243	16
##	theta[496,8]	1.465 1.027	110
##	theta[497,8]	1.434 1.200	18
##	theta[498,8]	1.852 1.161	22
##		1.640 1.219	17
##	theta[499,8] theta[500,8]	0.757 1.064	
			47 76
##	theta[501,8]	1.496 1.040	76
##	theta[502,8]	0.475 1.033	87
##	theta[503,8]	1.739 1.171	21
##	theta[504,8]	0.800 1.029	99
##	theta[505,8]	1.132 1.189	19
##	theta[506,8]	1.696 1.245	16
##	theta[507,8]	0.704 1.045	69
##	theta[508,8]	0.674 1.040	81

```
## theta[509,8]
                      1.623 1.244
                                       16
                      1.248 1.098
## theta[510,8]
                                       33
## theta[511,8]
                      0.828 1.030
                                       95
## theta[512,8]
                      0.816 1.032
                                       88
##
  theta[513,8]
                      1.458 1.020
                                      150
##
   theta[514,8]
                      0.615 1.035
                                       90
  theta[515,8]
                      0.674 1.067
                                       46
  theta[516,8]
                      0.833 1.031
                                       98
##
   theta[517,8]
                      1.494 1.156
                                       22
   theta[518,8]
                      0.948 1.016
                                      160
   theta[519,8]
                      1.683 1.241
                                       16
   theta[520,8]
                      1.474 1.047
                                       63
   theta[521,8]
                      0.813 1.125
                                       26
##
   theta[522,8]
                      1.430 1.204
                                       18
   theta[523,8]
                      1.311 1.173
                                       21
   theta[524,8]
                      1.582 1.231
                                       16
##
   theta[525,8]
                      1.183 1.160
                                       22
   theta[526,8]
                      1.468 1.203
                                       18
  theta[527,8]
                      1.090 1.014
                                      190
## theta[528,8]
                      1.099 1.014
                                      200
##
  theta[529,8]
                      1.245 1.172
                                       21
  theta[530,8]
                      1.582 1.181
                                       20
## theta[531,8]
                      1.086 1.150
                                       23
   theta[532,8]
##
                      1.825 1.229
                                       16
   theta[533,8]
                      1.616 1.047
                                       67
   theta[534,8]
                      1.820 1.212
                                       18
  theta[535,8]
                                      190
                      1.357 1.015
##
   theta[536,8]
                      1.344 1.009
                                      390
                                        9
   theta.cov[1,1]
                     10.211 1.590
   theta.cov[2,1]
                      1.645 1.141
                                       24
   theta.cov[3,1]
                      2.417 1.357
                                       12
##
   theta.cov[4,1]
                      5.496 1.518
                                       10
   theta.cov[5,1]
                      4.413 1.354
                                       12
  theta.cov[6,1]
                      0.703 1.347
                                       12
  theta.cov[7,1]
                      3.467 1.497
                                       10
##
##
  theta.cov[8,1]
                      2.319 1.262
                                       16
## theta.cov[1,2]
                      1.645 1.141
                                       24
## theta.cov[2,2]
                      1.060 1.082
                                       39
## theta.cov[3,2]
                      0.405 1.427
                                       11
##
  theta.cov[4,2]
                      1.446 1.048
                                       64
  theta.cov[5,2]
                      1.070 1.232
                                       16
  theta.cov[6,2]
                      0.303 1.387
                                       11
## theta.cov[7,2]
                      1.127 1.022
                                      150
   theta.cov[8,2]
                      0.757 1.319
                                       13
## theta.cov[1,3]
                      2.417 1.357
                                       12
                      0.405 1.427
## theta.cov[2,3]
                                       11
##
  theta.cov[3,3]
                      3.424 1.165
                                       22
   theta.cov[4,3]
                      2.811 1.442
                                       10
                      1.392 1.298
  theta.cov[5,3]
                                       14
   theta.cov[6,3]
                      0.705 1.307
                                       13
##
  theta.cov[7,3]
                      1.322 1.415
                                       11
## theta.cov[8,3]
                      1.352 1.304
                                       14
## theta.cov[1,4]
                      5.496 1.518
                                       10
## theta.cov[2,4]
                      1.446 1.048
                                       64
```

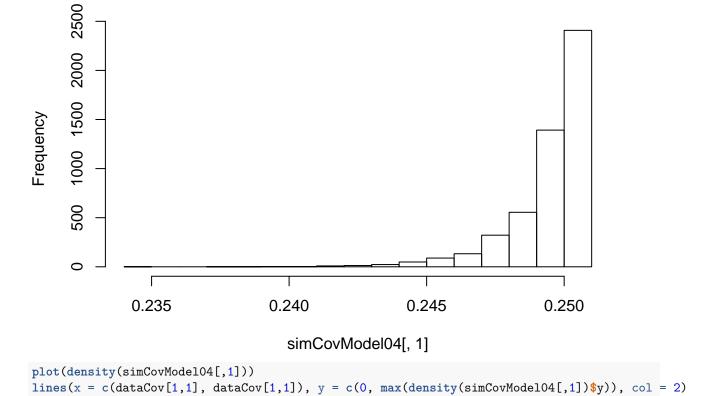
```
## theta.cov[3,4]
                     2.811 1.442
                                     10
                                     23
## theta.cov[4,4]
                     8.309 1.163
## theta.cov[5,4]
                     3.297 1.193
                                     21
## theta.cov[6,4]
                      1.421 1.547
                                      9
## theta.cov[7,4]
                     2.827 1.179
                                     19
## theta.cov[8,4]
                     2.232 1.325
                                     12
## theta.cov[1,5]
                     4.413 1.354
## theta.cov[2,5]
                      1.070 1.232
                                     16
## theta.cov[3,5]
                     1.392 1.298
                                     14
## theta.cov[4,5]
                     3.297 1.193
                                     21
## theta.cov[5,5]
                     5.193 1.286
                                     14
## theta.cov[6,5]
                     0.676 1.439
                                     10
## theta.cov[7,5]
                     2.273 1.216
                                     17
## theta.cov[8,5]
                     1.215 1.330
                                     13
## theta.cov[1,6]
                     0.703 1.347
                                     12
## theta.cov[2,6]
                      0.303 1.387
                                     11
## theta.cov[3,6]
                     0.705 1.307
                                     13
## theta.cov[4,6]
                      1.421 1.547
                                      9
                     0.676 1.439
## theta.cov[5,6]
                                     10
## theta.cov[6,6]
                     1.295 1.028
                                    140
## theta.cov[7,6]
                     0.509 1.427
                                     10
## theta.cov[8,6]
                      0.386 1.377
                                     11
## theta.cov[1,7]
                     3.467 1.497
                                     10
## theta.cov[2,7]
                     1.127 1.022
                                    150
## theta.cov[3,7]
                     1.322 1.415
                                     11
## theta.cov[4,7]
                     2.827 1.179
                                     19
## theta.cov[5,7]
                      2.273 1.216
                                     17
## theta.cov[6,7]
                     0.509 1.427
                                     10
## theta.cov[7,7]
                     2.308 1.047
                                     59
## theta.cov[8,7]
                     1.105 1.322
                                     13
## theta.cov[1,8]
                      2.319 1.262
                                     16
## theta.cov[2,8]
                     0.757 1.319
                                     13
## theta.cov[3,8]
                     1.352 1.304
                                     14
## theta.cov[4,8]
                      2.232 1.325
                                     12
## theta.cov[5,8]
                     1.215 1.330
                                     13
## theta.cov[6,8]
                     0.386 1.377
                                     11
## theta.cov[7,8]
                      1.105 1.322
                                     13
## theta.cov[8,8]
                      1.661 1.095
                                     33
## deviance
                  6210.693 1.002 2300
##
## For each parameter, n.eff is a crude measure of effective sample size,
## and Rhat is the potential scale reduction factor (at convergence, Rhat=1).
## DIC info (using the rule, pD = var(deviance)/2)
## pD = 4510.7 and DIC = 10543.0
## DIC is an estimate of expected predictive error (lower deviance is better).
Up next are posterior predictive model checks for Model 4:
# list number of simulated data sets
nSimulatedDataSets = 5000
# create one large matrix of posterior values
model04.Posterior.all = model04.r2jags$BUGSoutput$sims.matrix
dim(model04.Posterior.all)
```

```
## [1] 4000 4429
# determine columns of posterior that go into each model matrix
# colnames(model01.Posterior.all)
muCols = grep(x = colnames(model04.Posterior.all), pattern = "mu")
lambdaCols = grep(x = colnames(model04.Posterior.all), pattern = "lambda\\[")
lambdaText = colnames(model04.Posterior.all)[lambdaCols]
lambdaCall = paste(lambdaText, "= lambdaVec[", 1:56, "]")
lambda = matrix(data = 0, nrow = 20, ncol = 8)
covCol = grep(x = colnames(model04.Posterior.all), pattern = "theta.cov")
# save simulated covariances:
simCovModel04 = matrix(data = NA, nrow = nSimulatedDataSets, ncol = nItems*nItems)
# loop through data sets (can be sped up with functions and lapply)
pb = txtProgressBar()
sim = 1
for (sim in 1:nSimulatedDataSets){
  # draw sample from one iteration of posterior chain
  iternum = sample(x = 1:nrow(model04.Posterior.all), size = 1, replace = TRUE)
  # get parameters for that sample: put into factor model matrices for easier generation of data
# get parameters for that sample: put into factor model matrices for easier generation of data
  mu = matrix(data = model04.Posterior.all[iternum, muCols], ncol = 1)
  lambdaVec = model04.Posterior.all[iternum, lambdaCols]
  eval(parse(text = lambdaCall))
  varTheta = matrix(data = model04.Posterior.all[iternum, covCol], nrow = 8, ncol = 8)
  # generate sample of thetas from theta distribution
  theta = rmvnorm(n = nrow(FSdata), mean = rep(0,8), sigma = varTheta)
  # calculate predicted probits:
  probits = matrix(data = 1, nrow = nrow(FSdata), ncol = 1) %*% t(mu) + theta %*% t(lambda)
  simData = probits
  i=1
  for (i in 1:ncol(probits)){
   simData[,i] = rbinom(n = nrow(probits), size = 1, prob = pnorm(q = probits[,i]) )
  }
  # calculate the value of SRMR using simulated data's covariance matrix and observed covariance matrix
  simCov = cov(simData)
  simCovModel04[sim,] = c(cov(simData))
  setTxtProgressBar(pb = pb, value = sim/nSimulatedDataSets)
}
## =========
close(pb)
# label values of simCor to ensure we have the right comparison
covNames = NULL
for (i in 1:ncol(simData)){
```

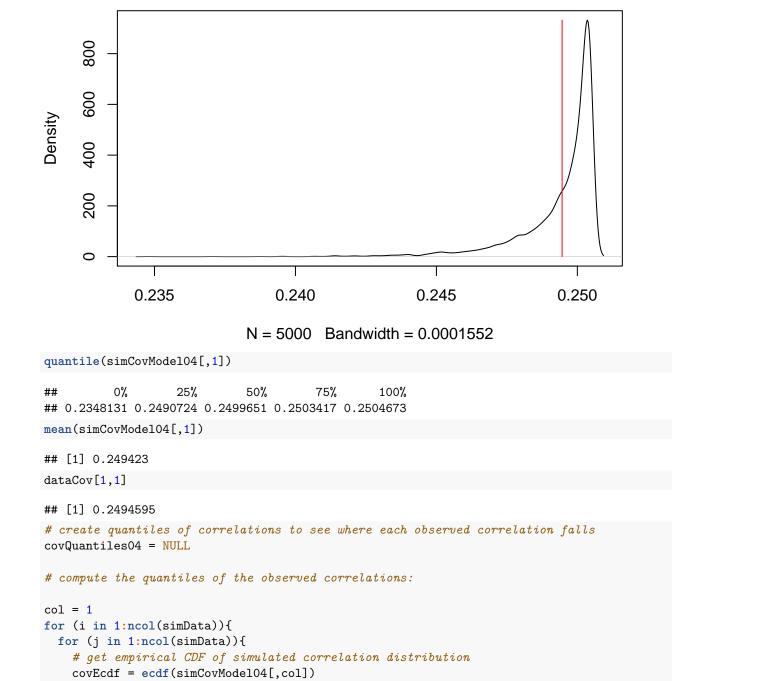
```
for (j in 1:ncol(simData)){
    covNames = c(covNames, pasteO("cov", i, "." , j))
  }
}
colnames(simCovModelO4) = covNames

# show how one correlation compares to distribution of simulated correlations
dataCov = cov(FSdata)
hist(simCovModelO4[,1])
```

Histogram of simCovModel04[, 1]



density.default(x = simCovModel04[, 1])



covQuantiles04[which(covQuantiles04[,10] > .975 | covQuantiles04[,10] < .025),]</pre>

col = col + 1

colnames(covQuantiles04)[1:2] = c("Item 1", "Item 2")
colnames(covQuantiles04)[9:10] = c("ObsCor", "CorPctile")

} } covQuantiles04 = rbind(covQuantiles04, c(i, j, summary(covEcdf), dataCov[i,j], covEcdf(dataCov[i,j]

```
Item 1 Item 2
                               Min.
                                       1st Qu.
                                                   Median
##
   [1,]
             4
                    8 -0.0006834984 0.03071558 0.03920352 0.03940074
   [2,]
             7
                    8 0.0149393221 0.04340389 0.05126761 0.05135580
##
   [3,]
                    4 -0.0006834984 0.03071558 0.03920352 0.03940074
##
             8
##
   [4,]
             8
                    7 0.0149393221 0.04340389 0.05126761 0.05135580
##
   [5,]
             8
                   11 0.0155530757 0.04418155 0.05232947 0.05249394
   [6,]
             8
                   15 0.0073371460 0.04639071 0.05474962 0.05485664
   [7,]
                   20 0.0097224160 0.04161843 0.04921537 0.04921224
##
             8
##
   [8,]
            11
                    8 0.0155530757 0.04418155 0.05232947 0.05249394
##
   [9,]
            15
                    8 0.0073371460 0.04639071 0.05474962 0.05485664
  [10,]
            20
                    8 0.0097224160 0.04161843 0.04921537 0.04921224
            3rd Qu.
##
                                  ObsCor CorPctile
                         Max.
   [1,] 0.04787279 0.07732599 0.10332334
                                            1.0000
##
  [2,] 0.05922200 0.09125750 0.07831636
                                            0.9946
  [3,] 0.04787279 0.07732599 0.10332334
                                            1.0000
##
   [4,] 0.05922200 0.09125750 0.07831636
                                            0.9946
##
  [5,] 0.06081218 0.09093318 0.07658669
                                            0.9858
  [6,] 0.06323406 0.09670805 0.07654485
                                            0.9762
## [7,] 0.05687945 0.08810155 0.07082578
                                            0.9852
## [8,] 0.06081218 0.09093318 0.07658669
                                          0.9858
## [9,] 0.06323406 0.09670805 0.07654485
                                          0.9762
## [10,] 0.05687945 0.08810155 0.07082578
                                            0.9852
```