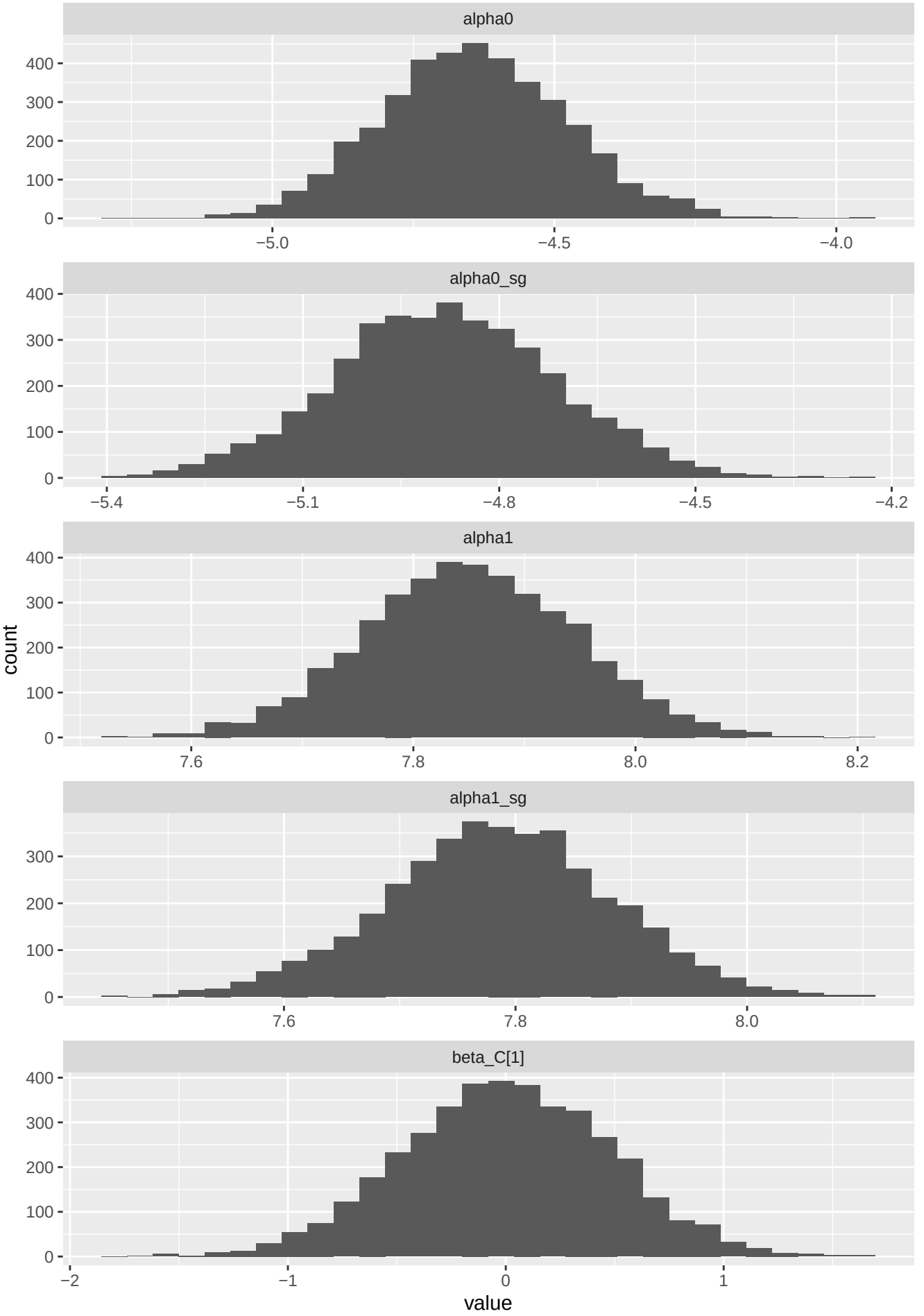
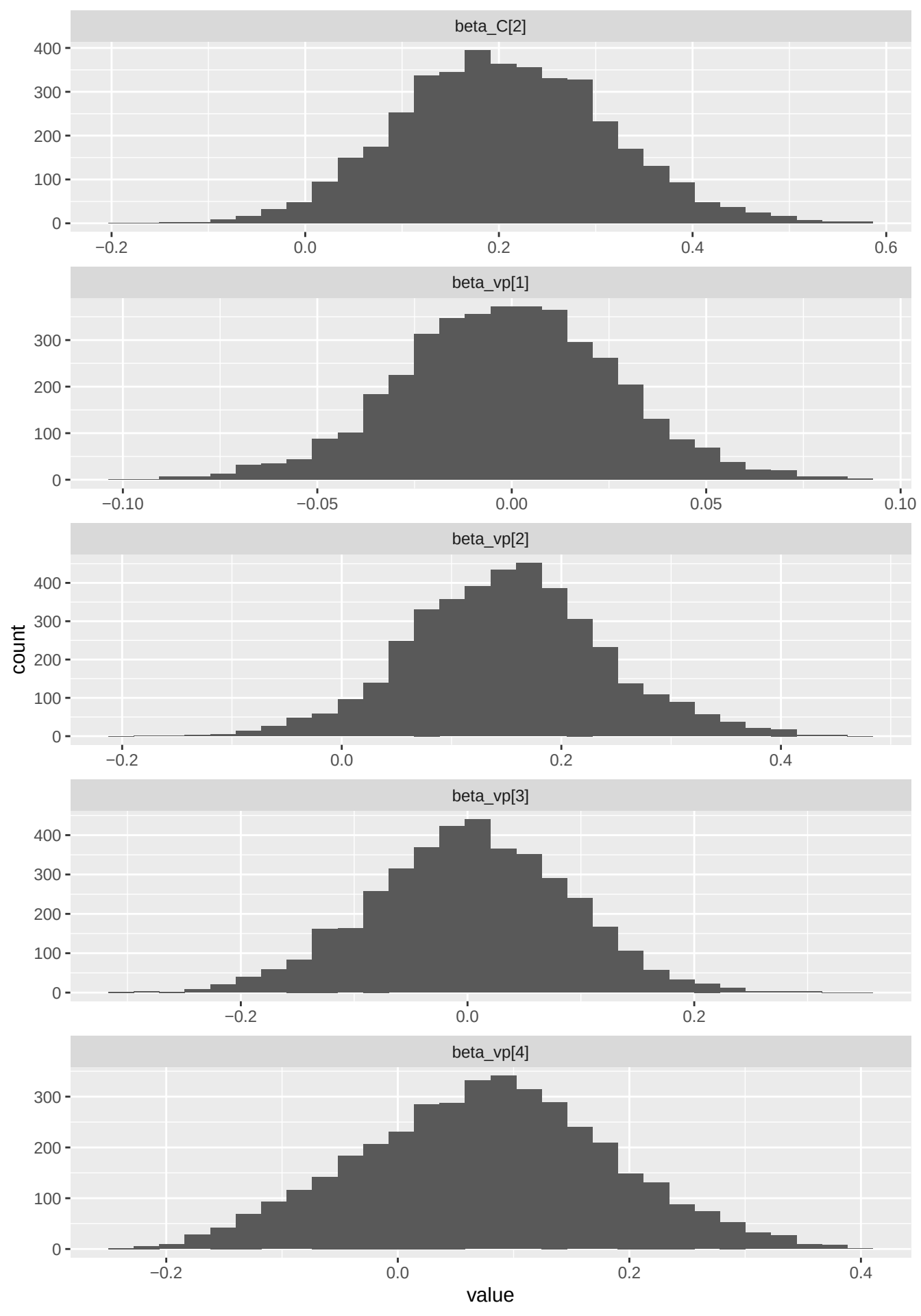
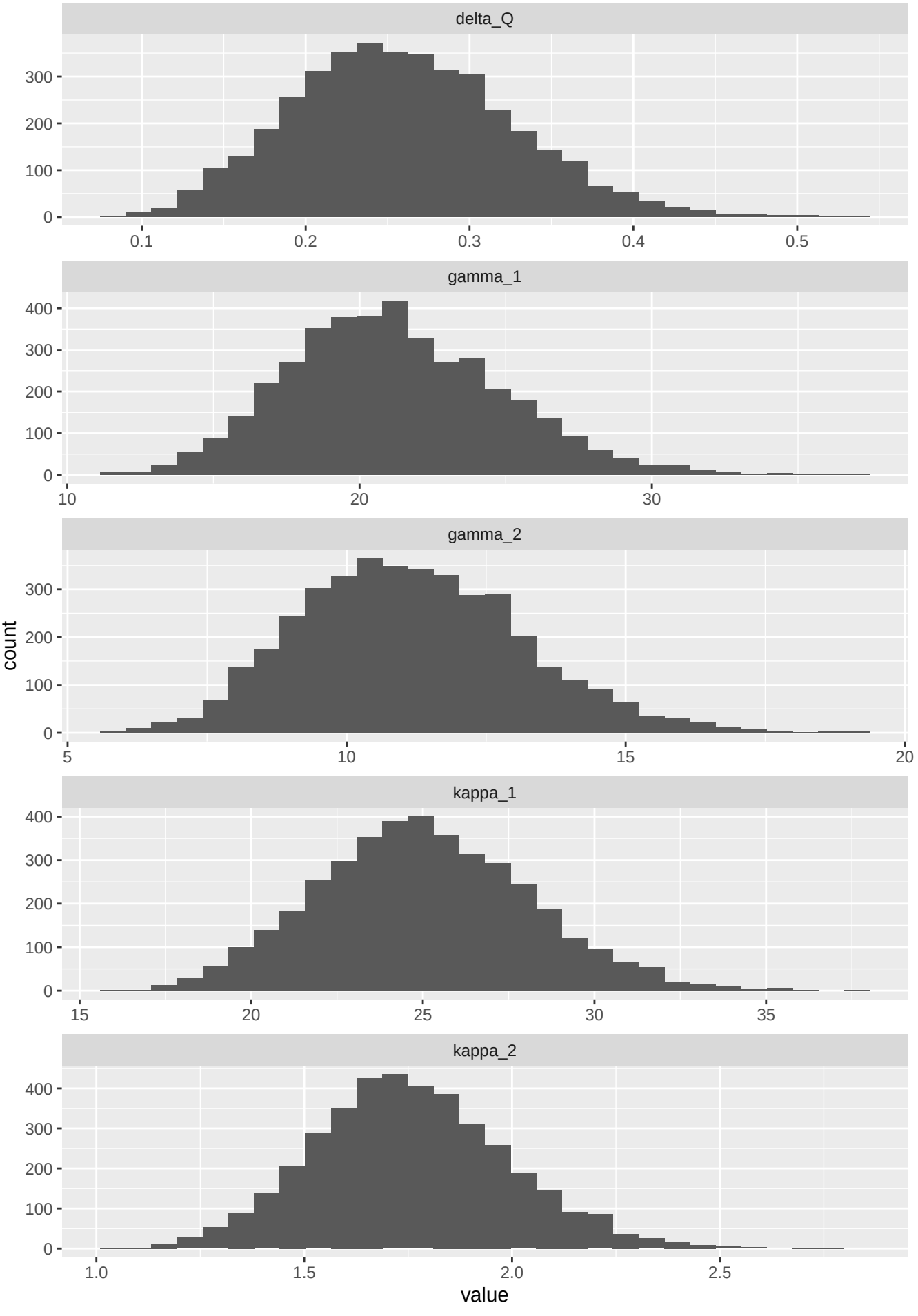
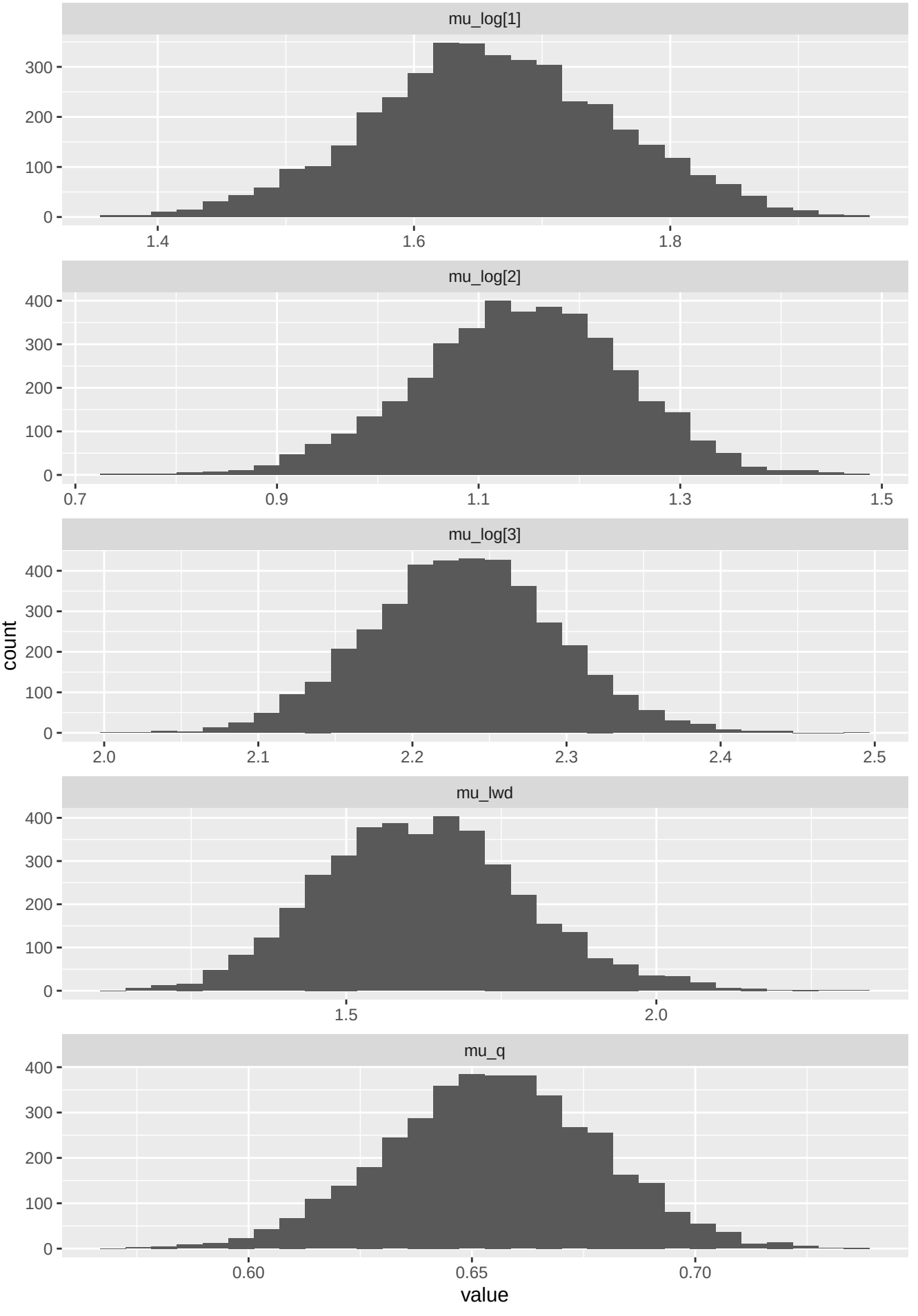
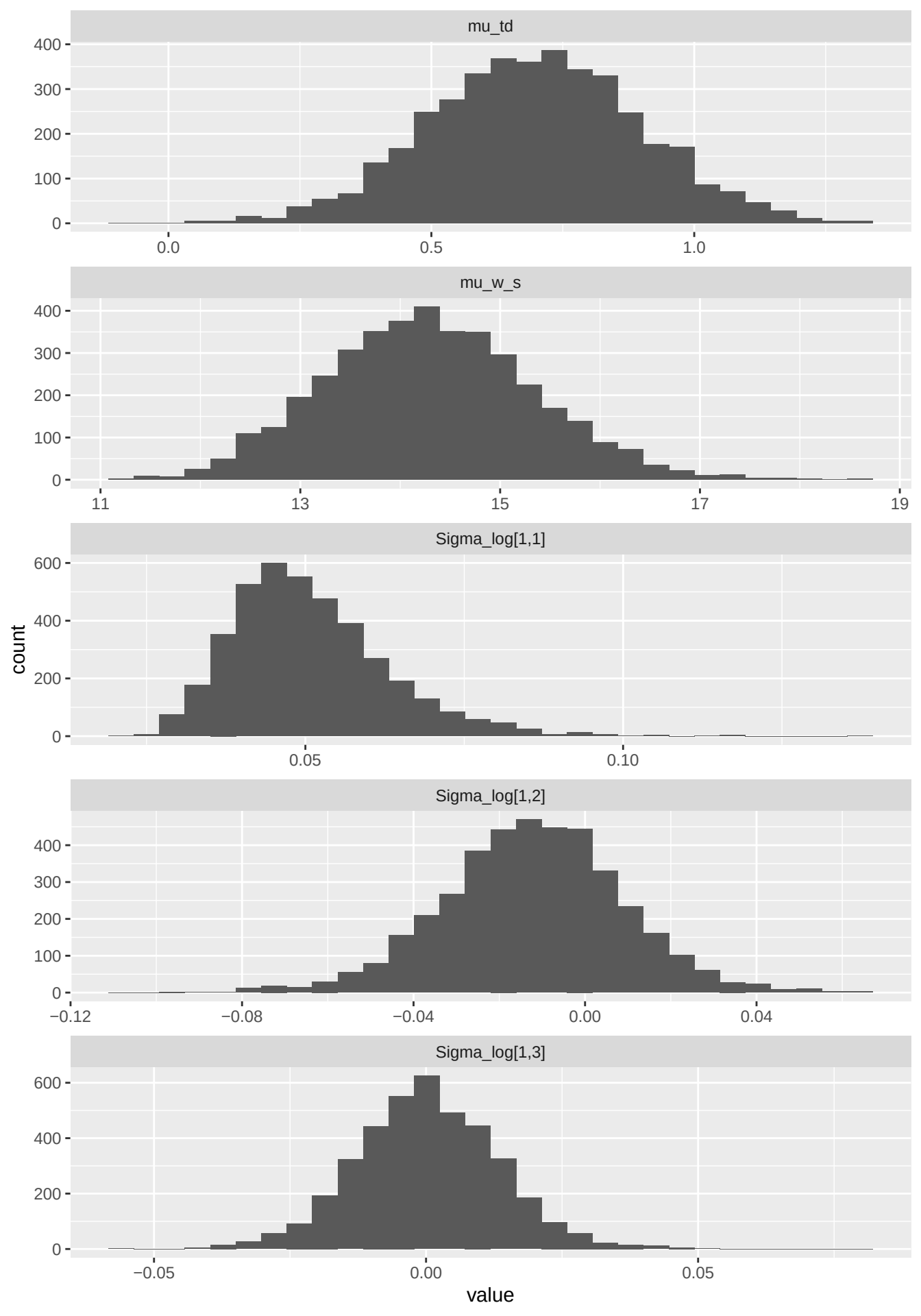
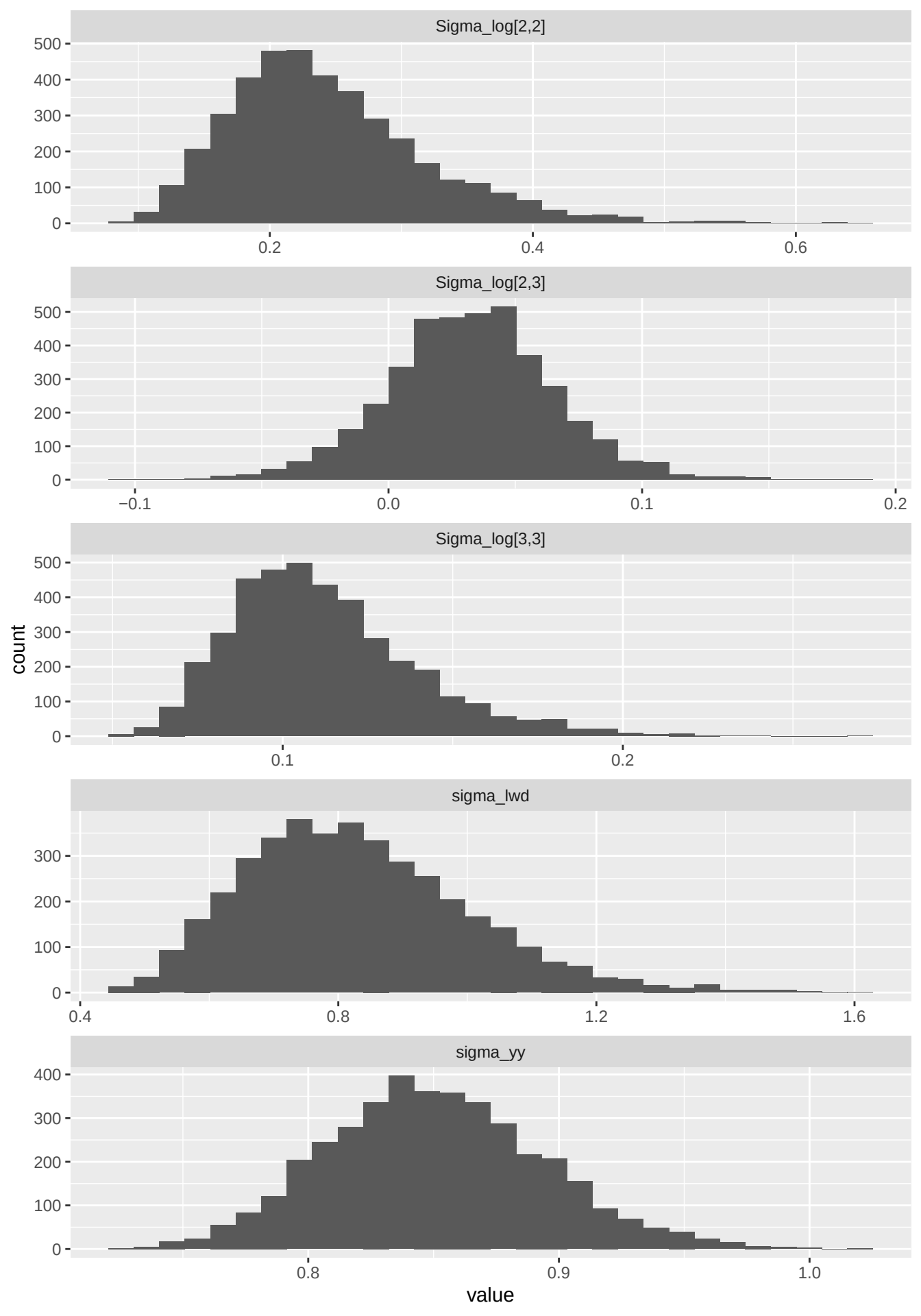

alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
count
value

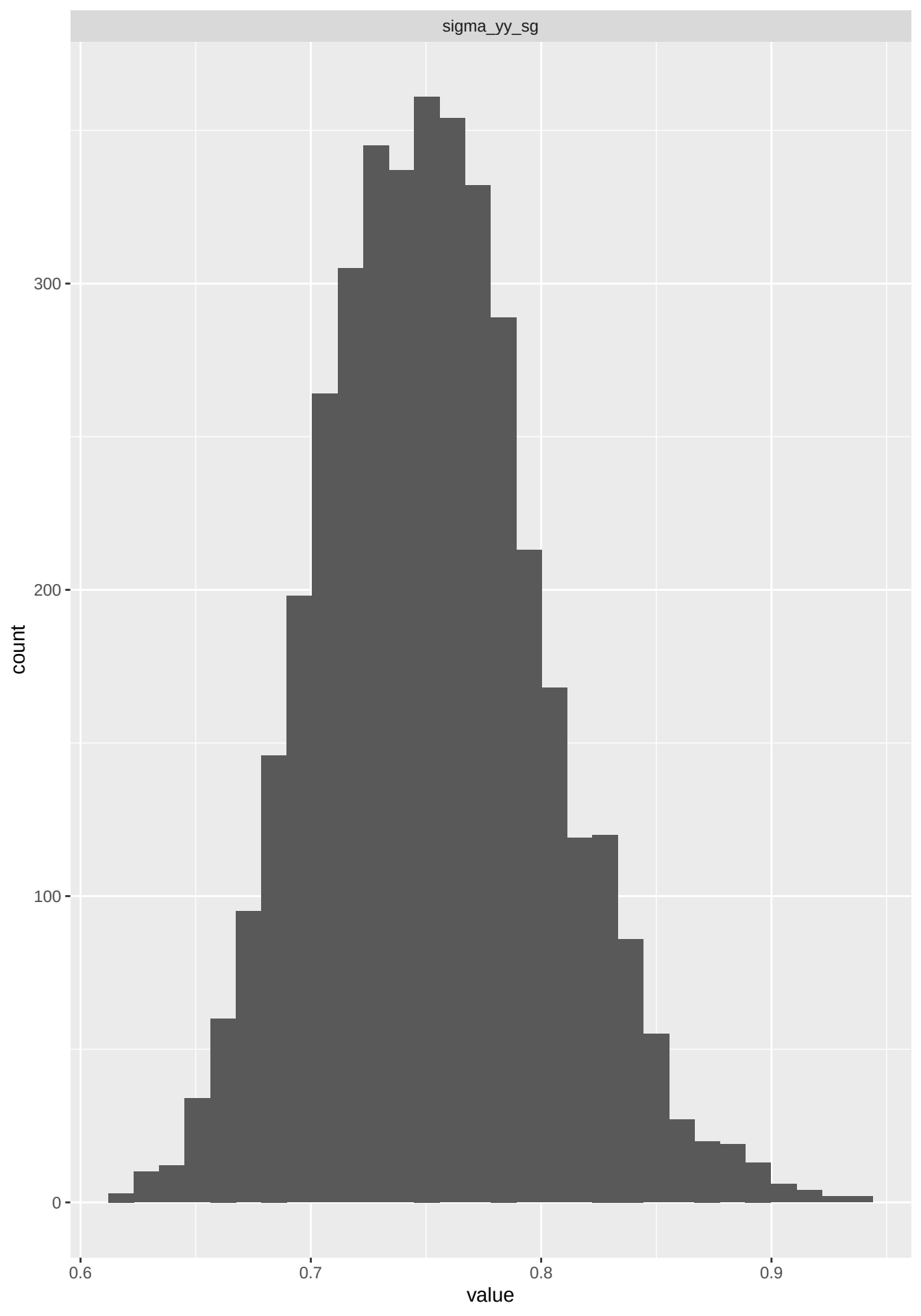

beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
count
value

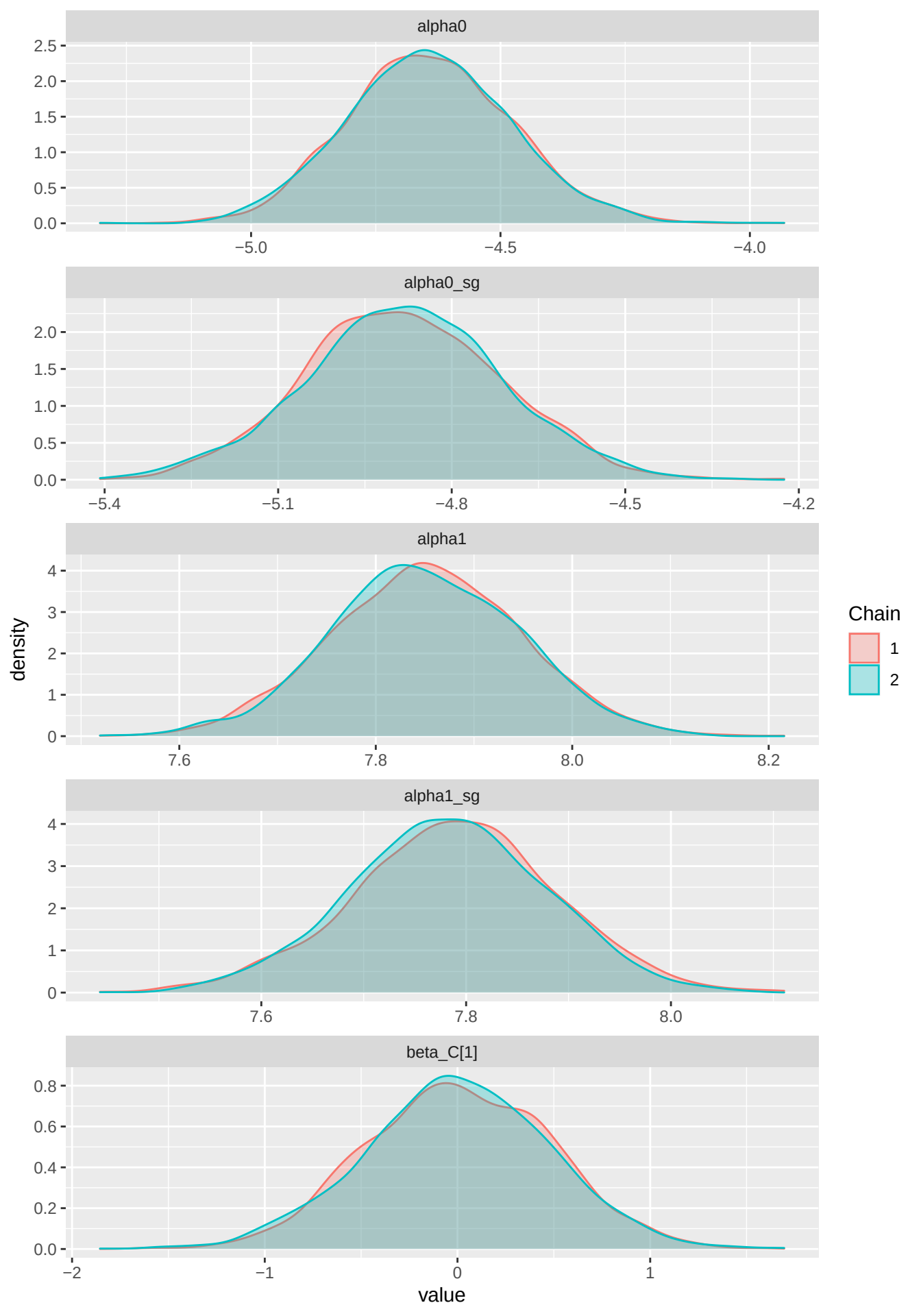

delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
count
value

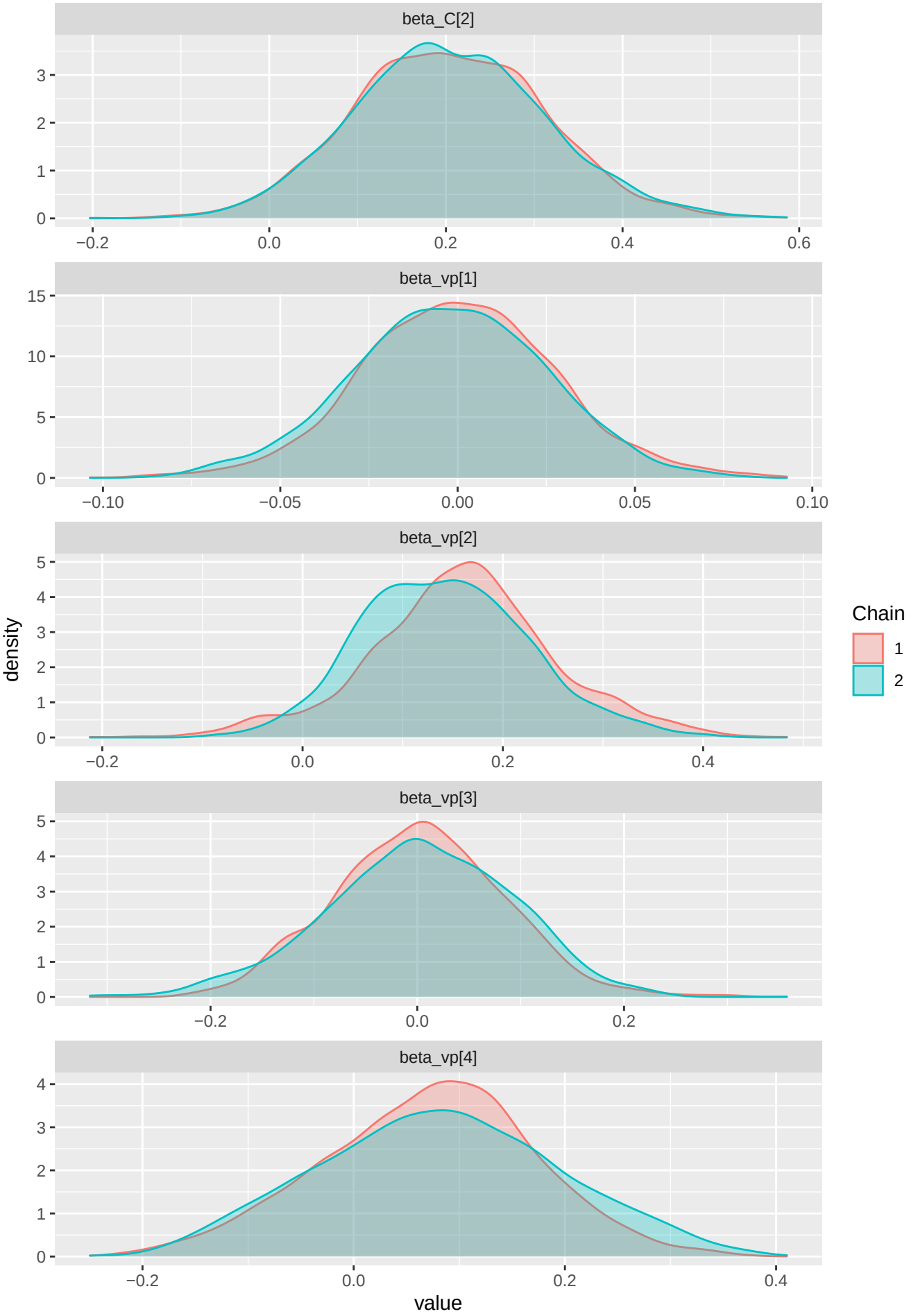

mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_q
count
value

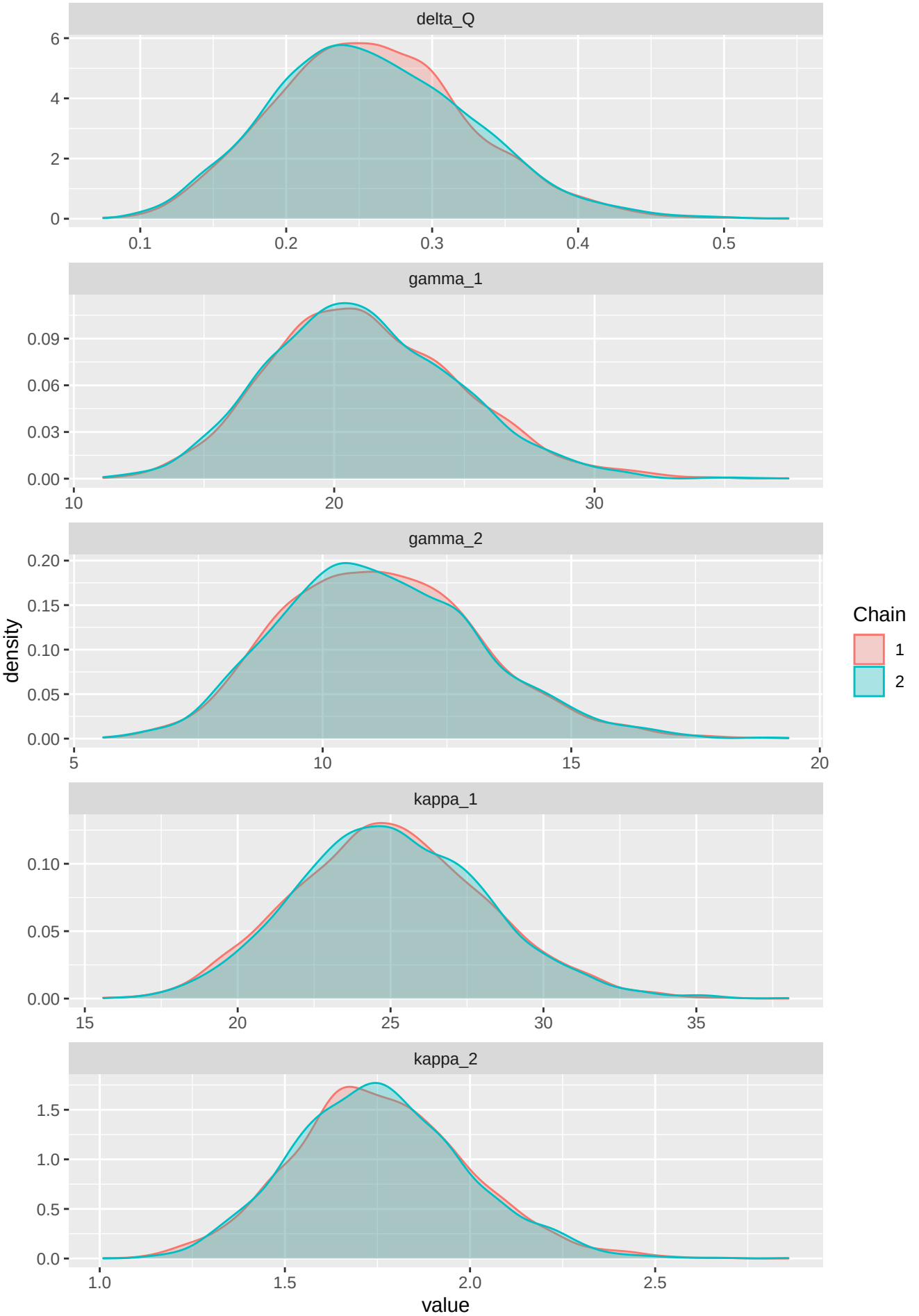

mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
count
value

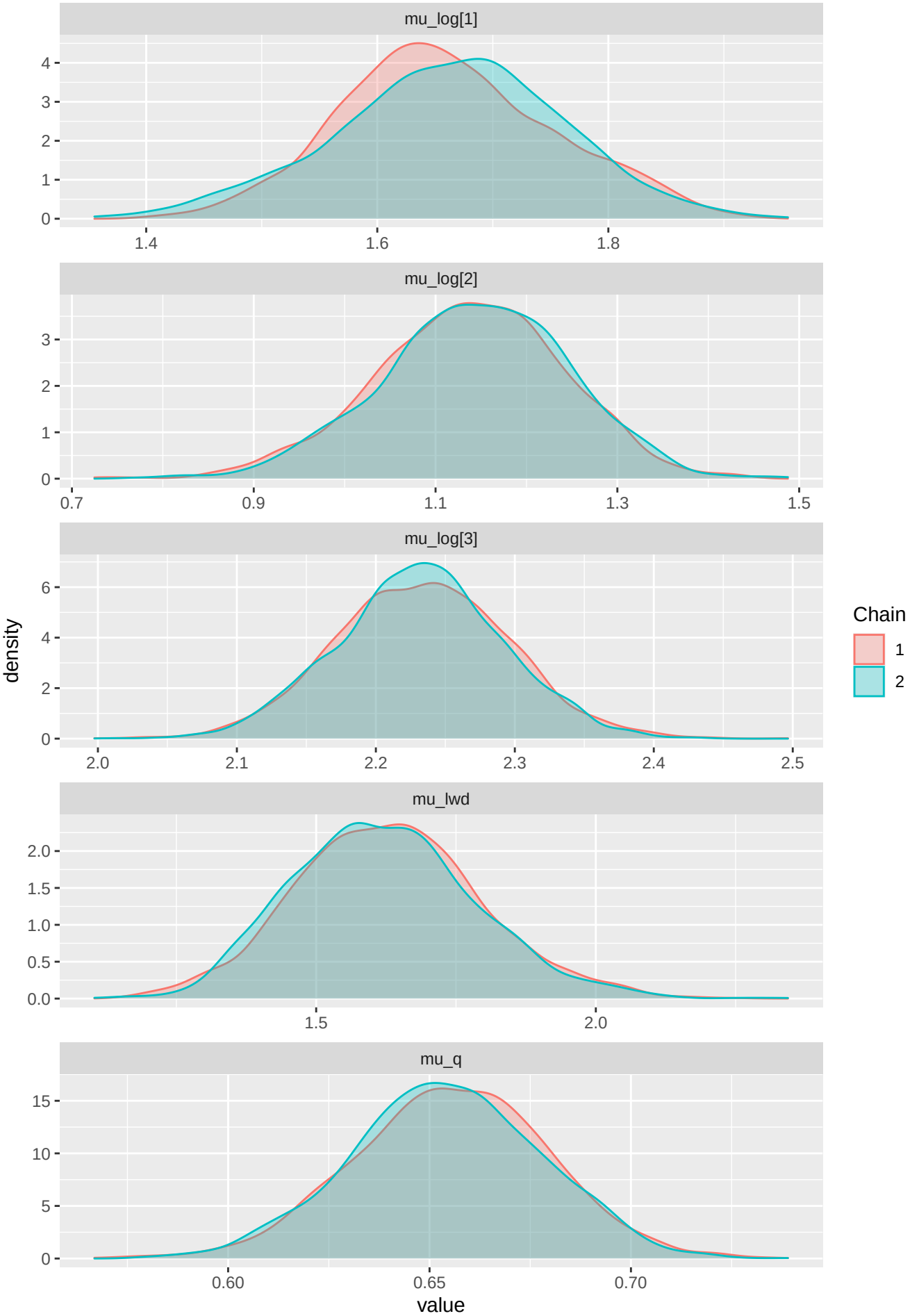

Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
count
value

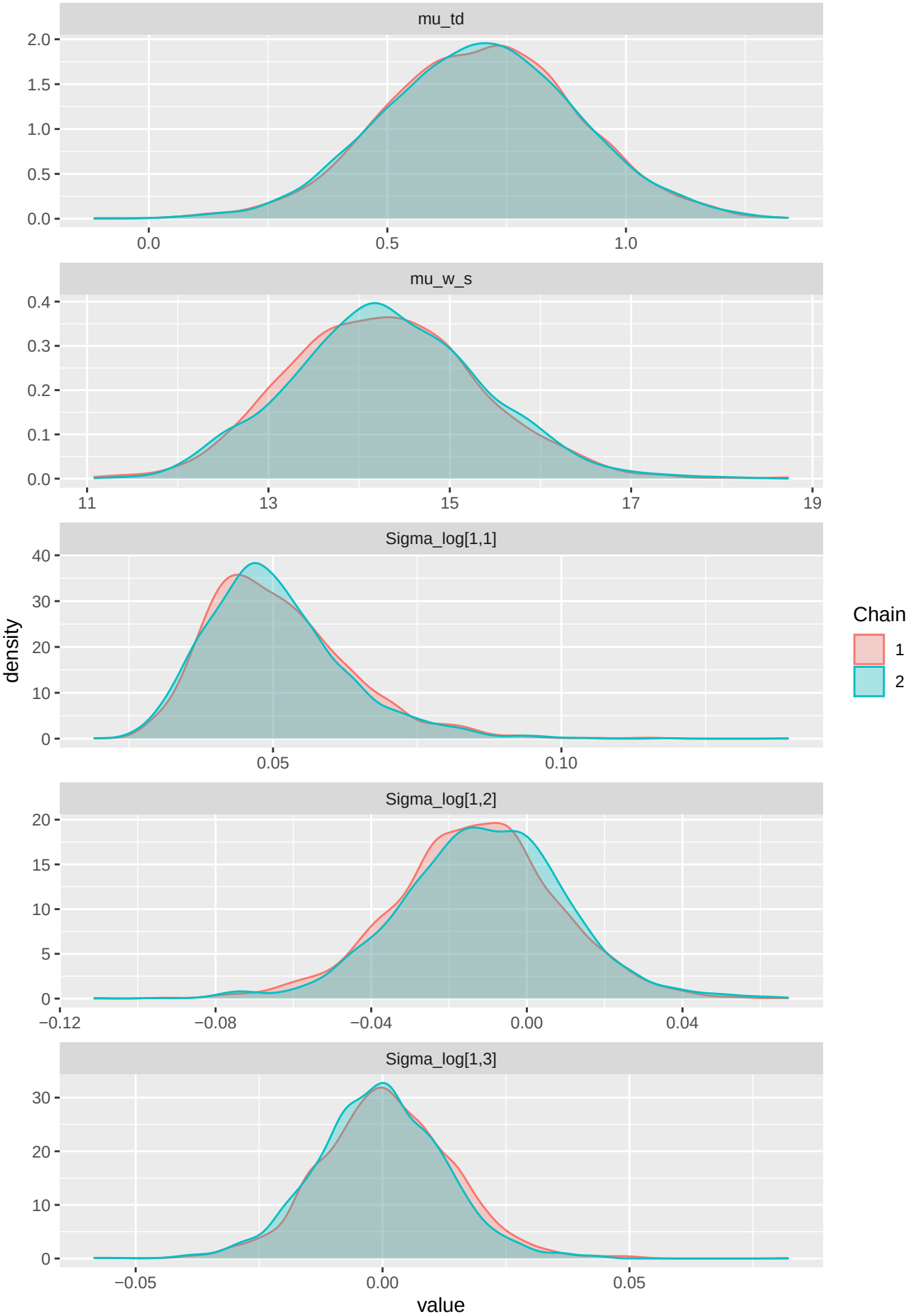

sigma_yy_sg
300
200
100
0
count
0.6
0.7
0.8
0.9
value

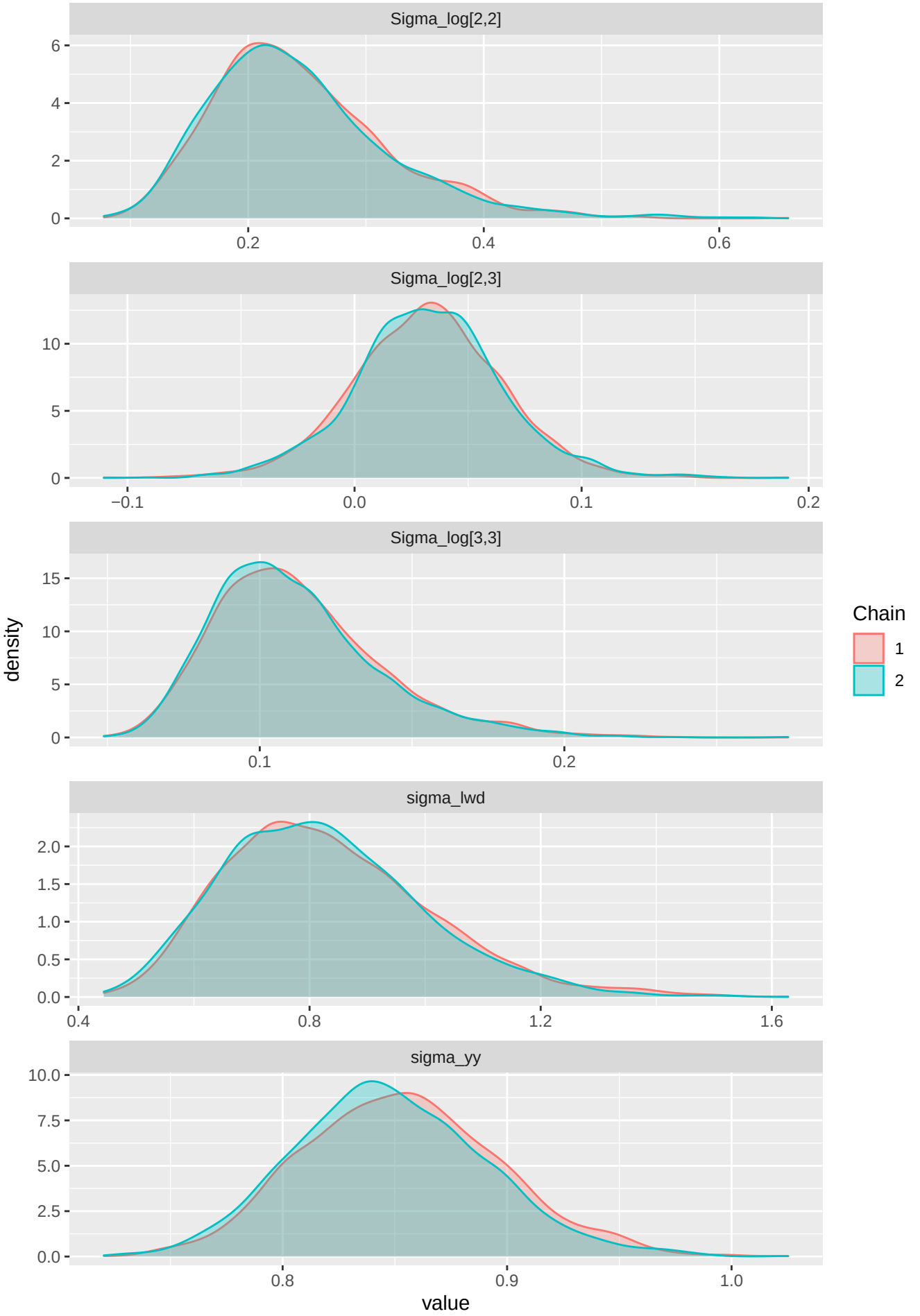

alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
density
value
Chain
1
2

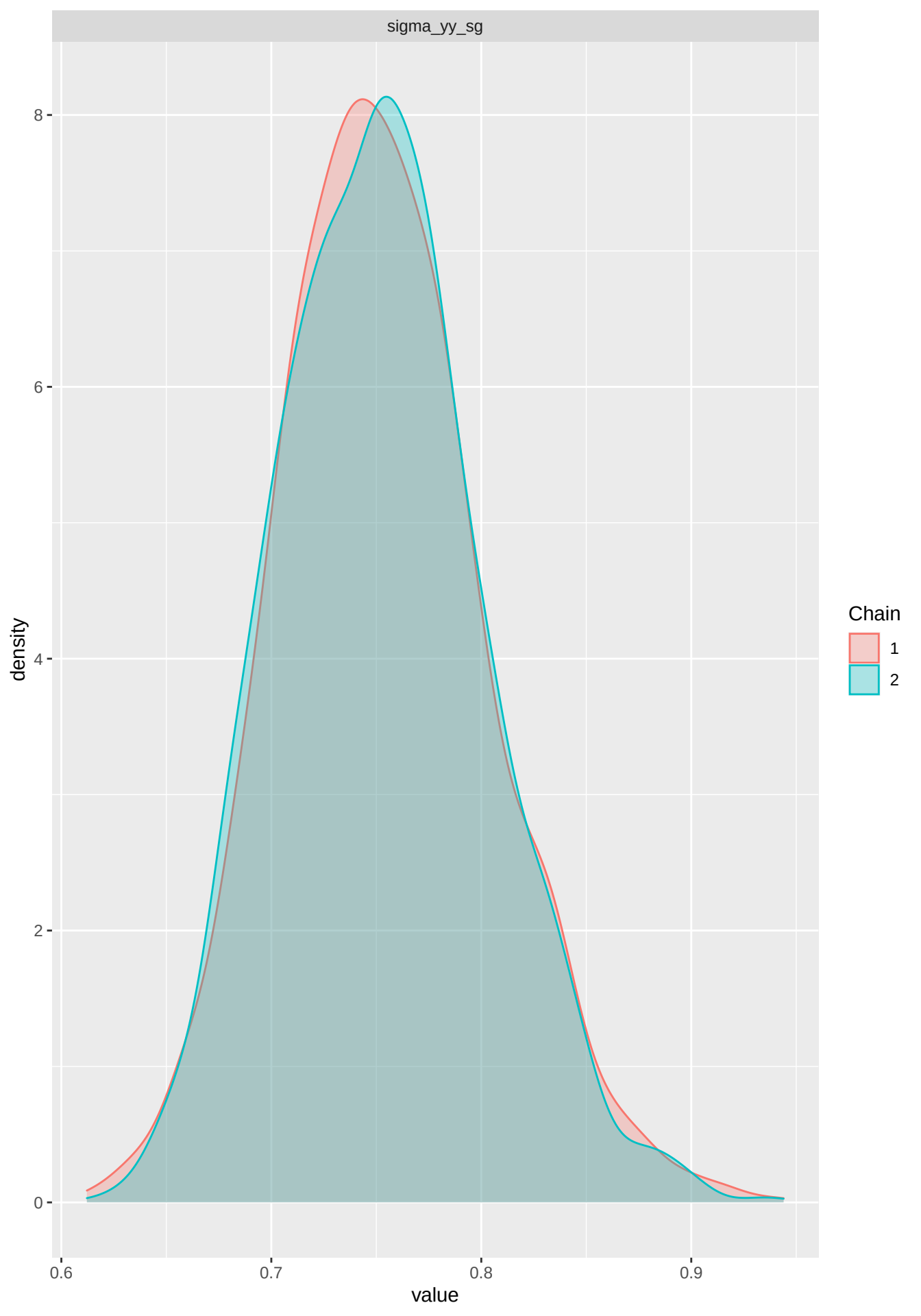

beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
density
value
Chain
1
2

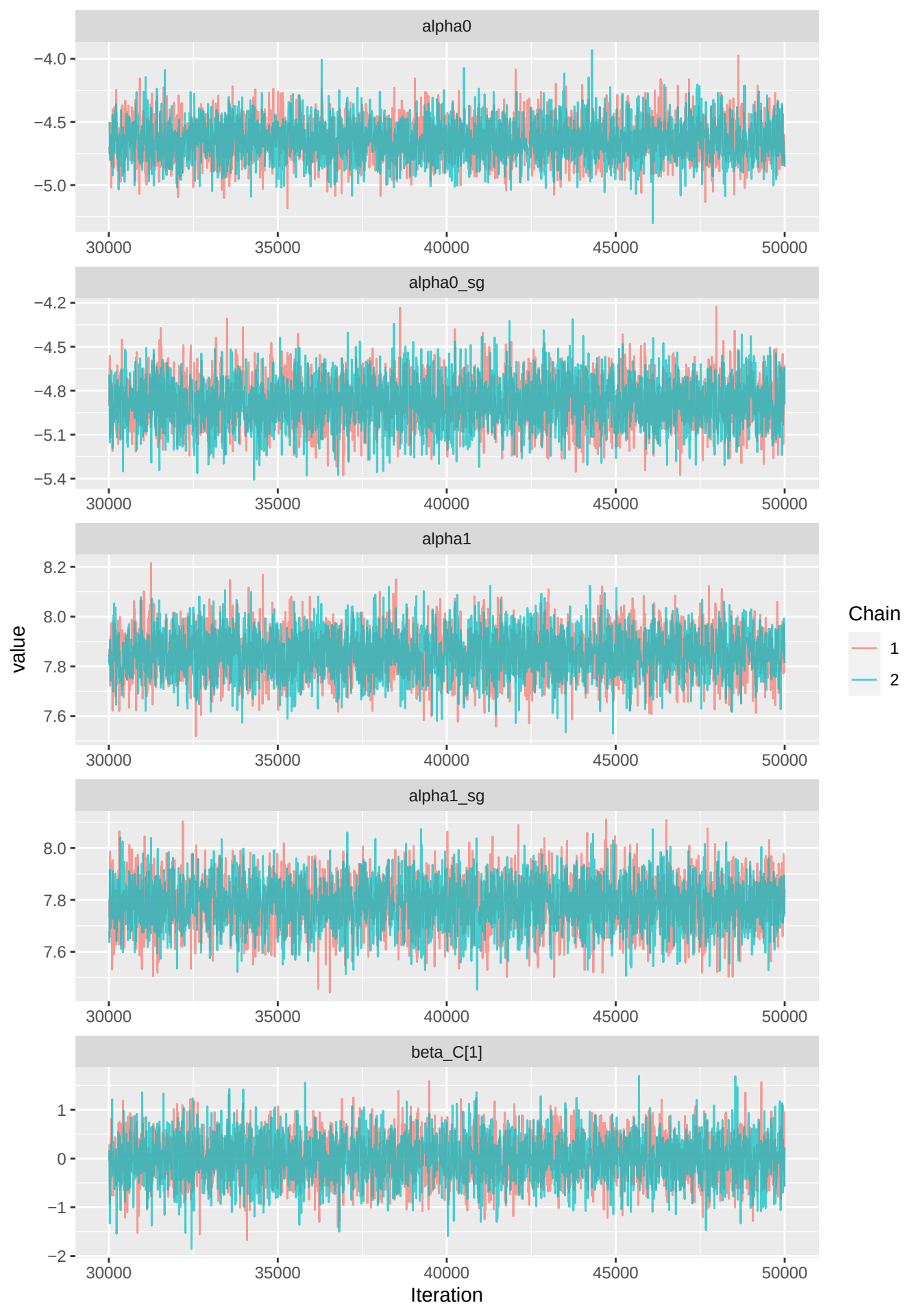

delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
density
value
Chain
1
2

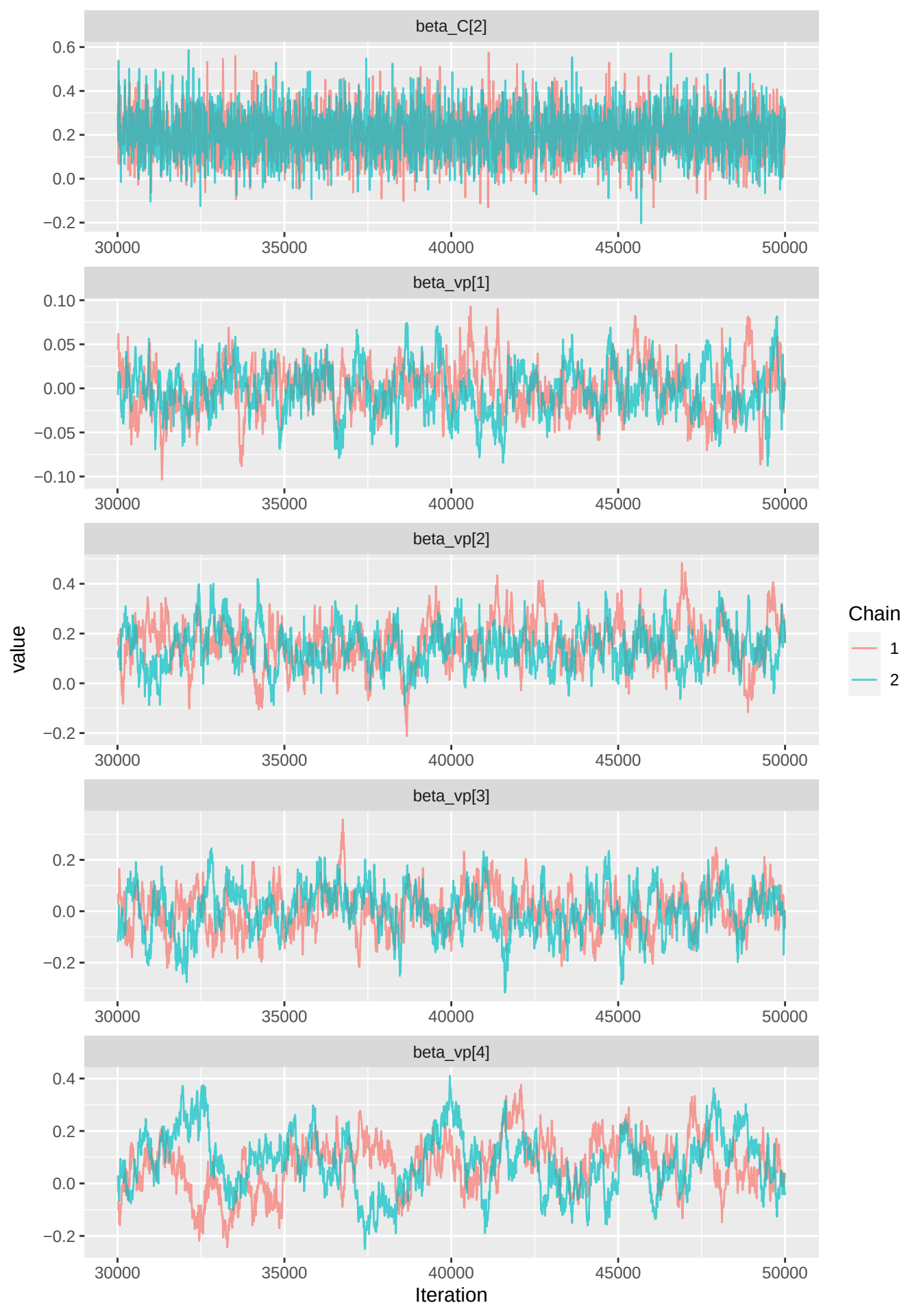

mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_q
density
value
Chain
1
2

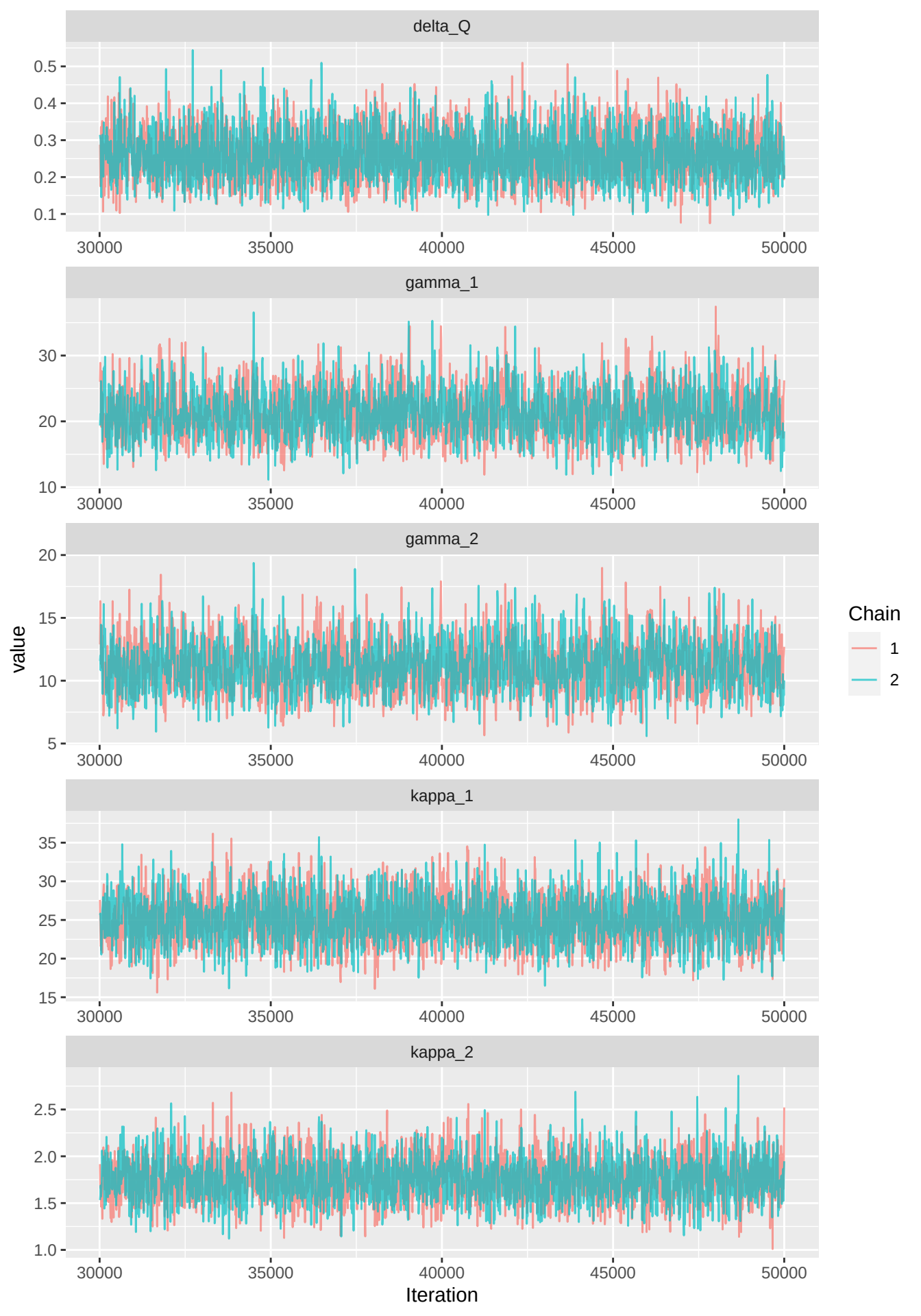

mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
density
value
Chain
1
2

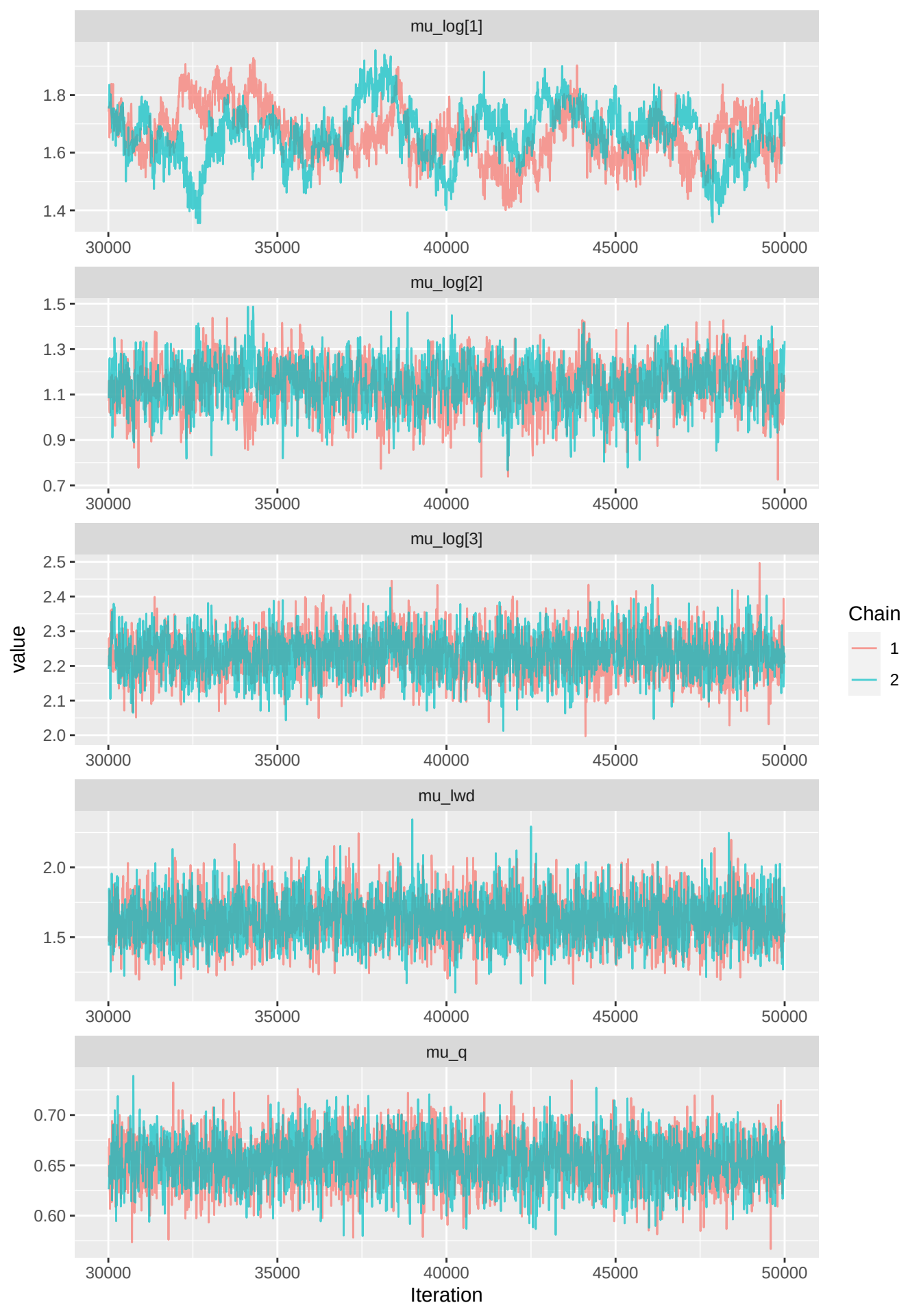

Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
density
value
Chain
1
2

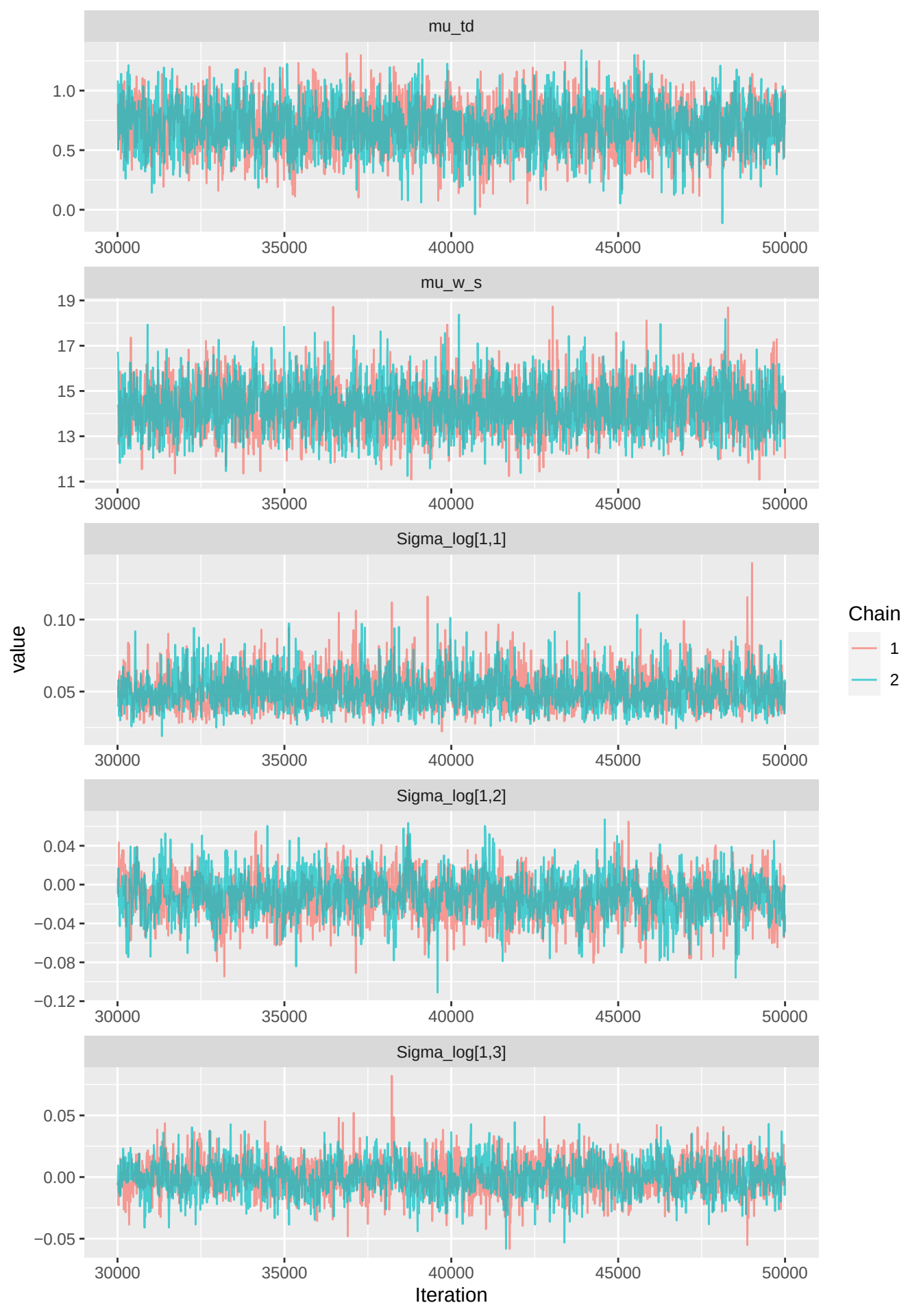

sigma_yy_sg
density
8
6
4
2
0
0.6
0.7
0.8
0.9
value
Chain
1
2

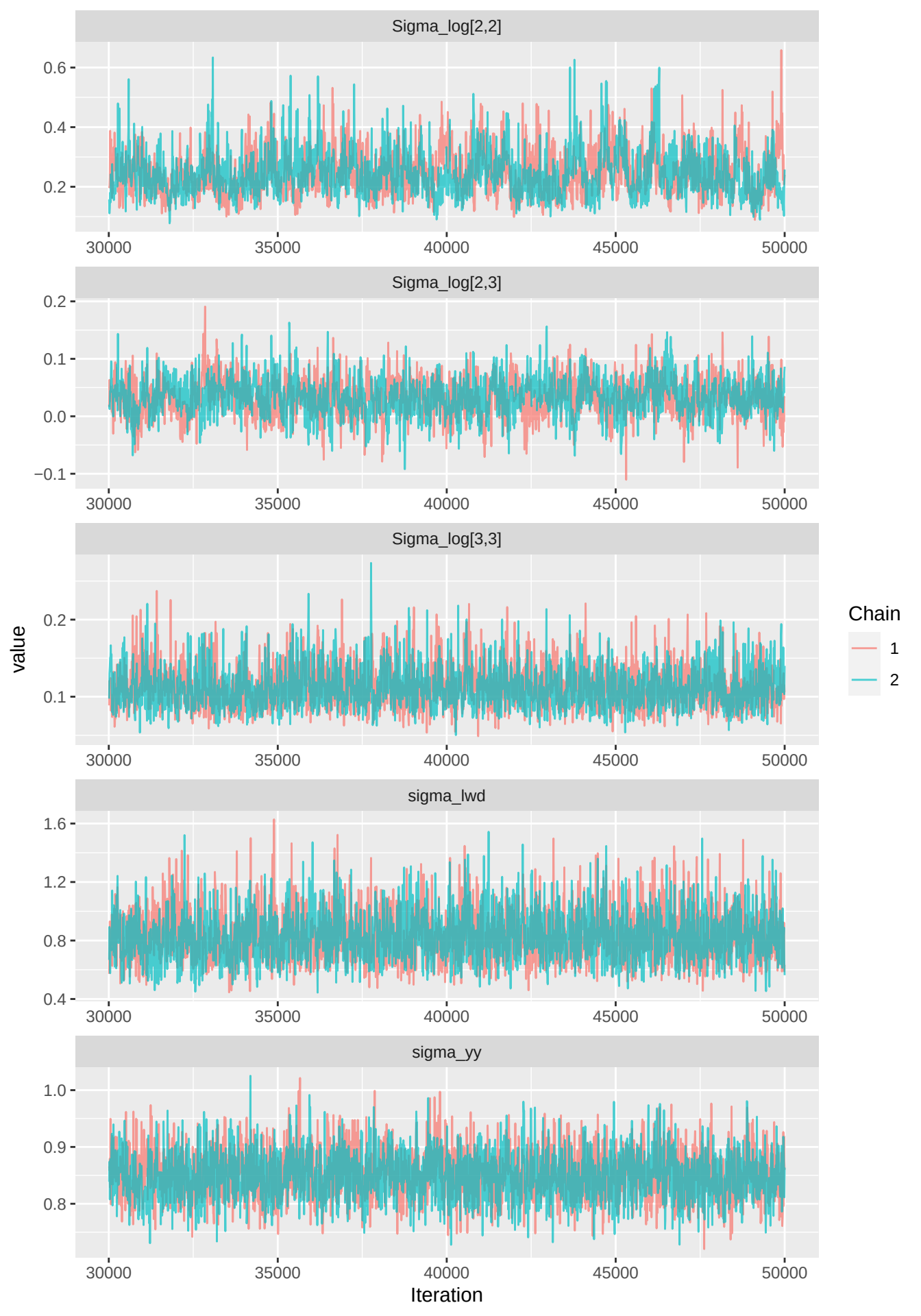

alpha0
−4.0
−4.5
−5.0
alpha0_sg
−4.2
−4.5
−4.8
−5.1
−5.4
alpha1
8.2
8.0
7.8
7.6
alpha1_sg
8.0
7.8
7.6
beta_C[1]
1
0
−1
−2
30000
35000
40000
45000
50000
value
Iteration
Chain
1
2

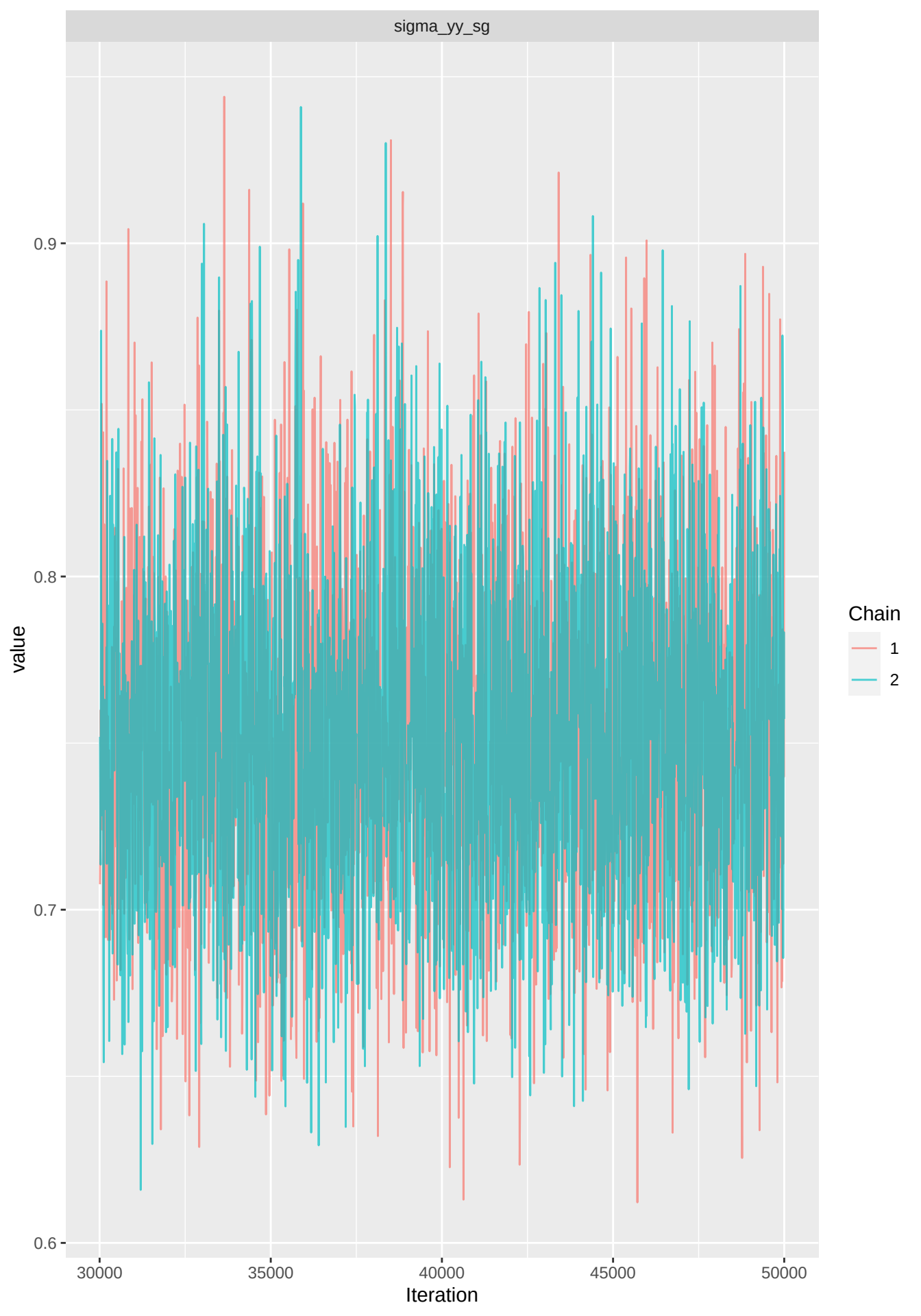

beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
value
Iteration
Chain
1
2
30000
35000
40000
45000
50000

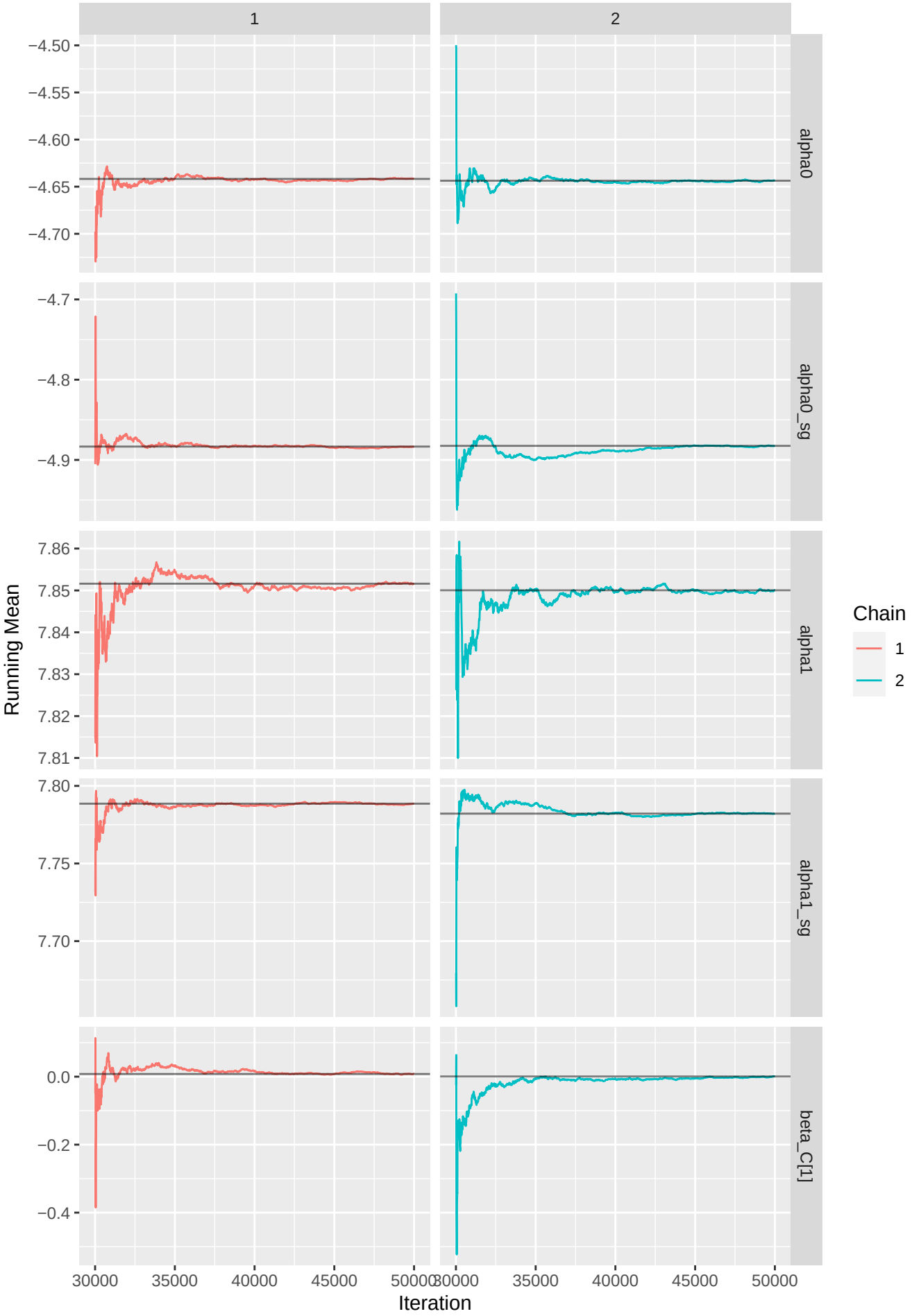

delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
value
Iteration
Chain
1
2

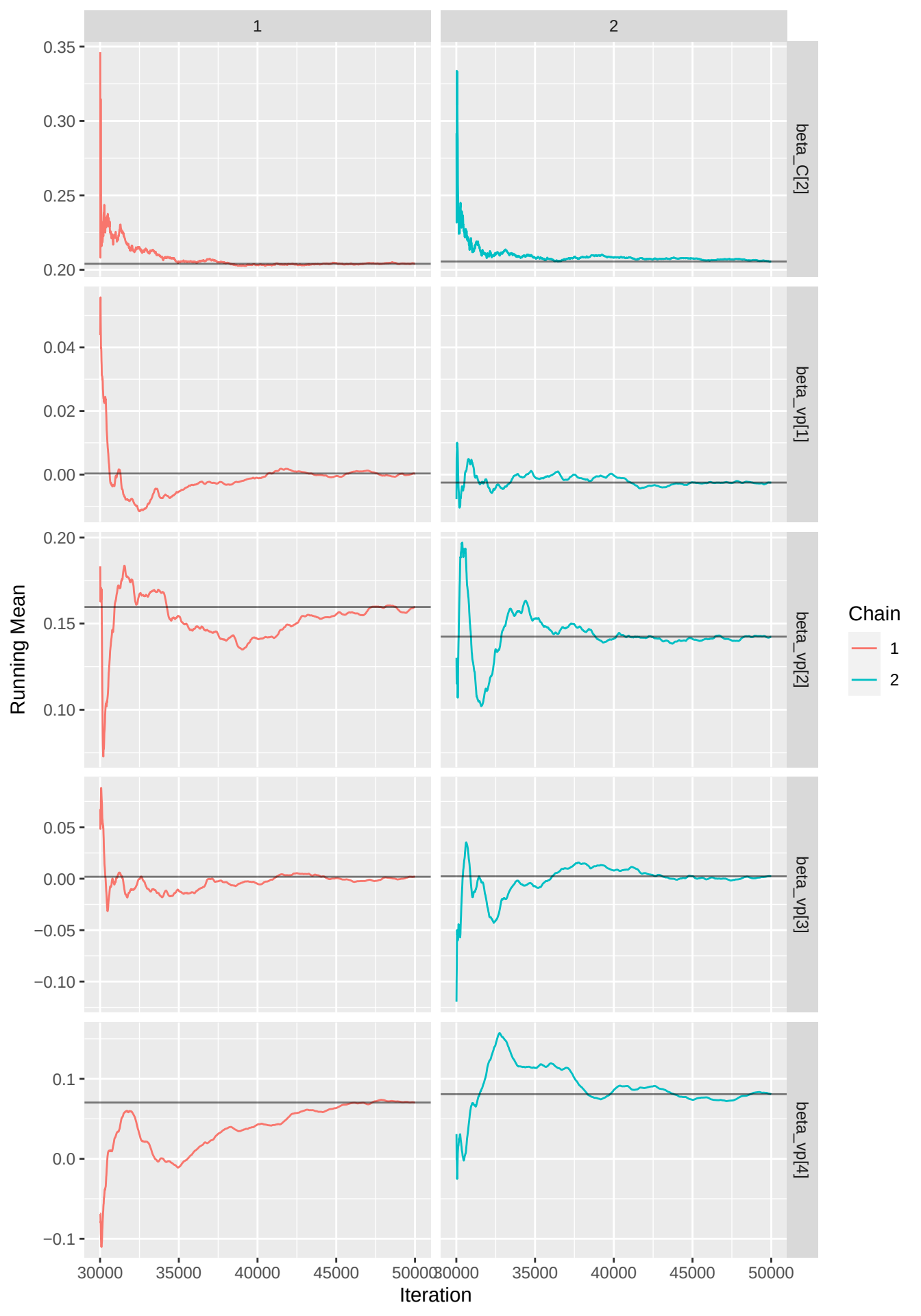

mu_log[1]
1.8
1.6
1.4
30000
35000
40000
45000
50000
mu_log[2]
1.5
1.3
1.1
0.9
0.7
mu_log[3]
2.5
2.4
2.3
2.2
2.1
2.0
mu_lwd
2.0
1.5
mu_q
0.70
0.65
0.60
value
Iteration
Chain
1
2

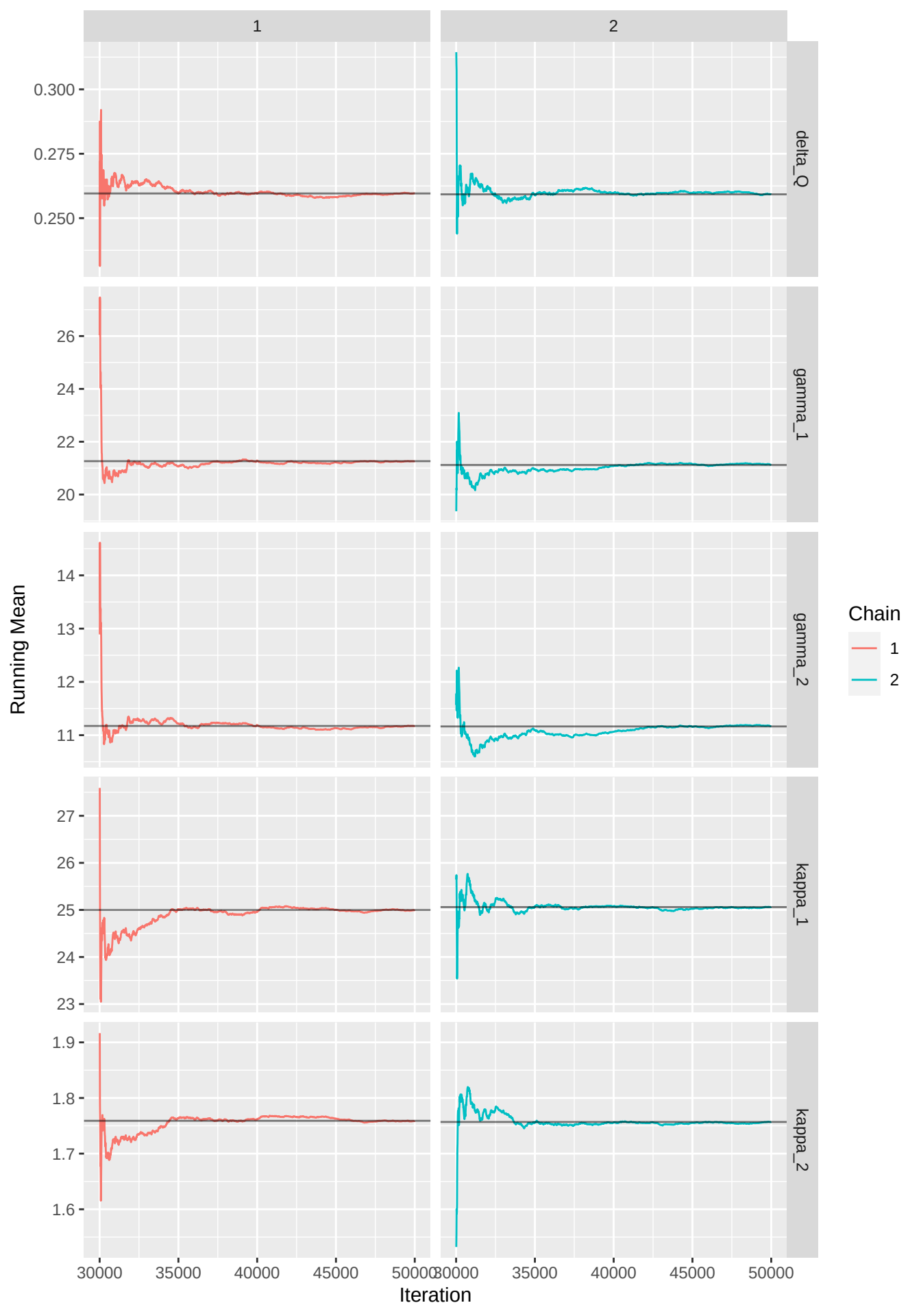

mu_td
1.0
0.5
0.0
30000
35000
40000
45000
50000
mu_w_s
19
17
15
13
11
30000
35000
40000
45000
50000
Sigma_log[1,1]
0.10
0.05
30000
35000
40000
45000
50000
Sigma_log[1,2]
0.04
0.00
−0.04
−0.08
−0.12
30000
35000
40000
45000
50000
Sigma_log[1,3]
0.05
0.00
−0.05
30000
35000
40000
45000
50000
value
Iteration
Chain
1
2

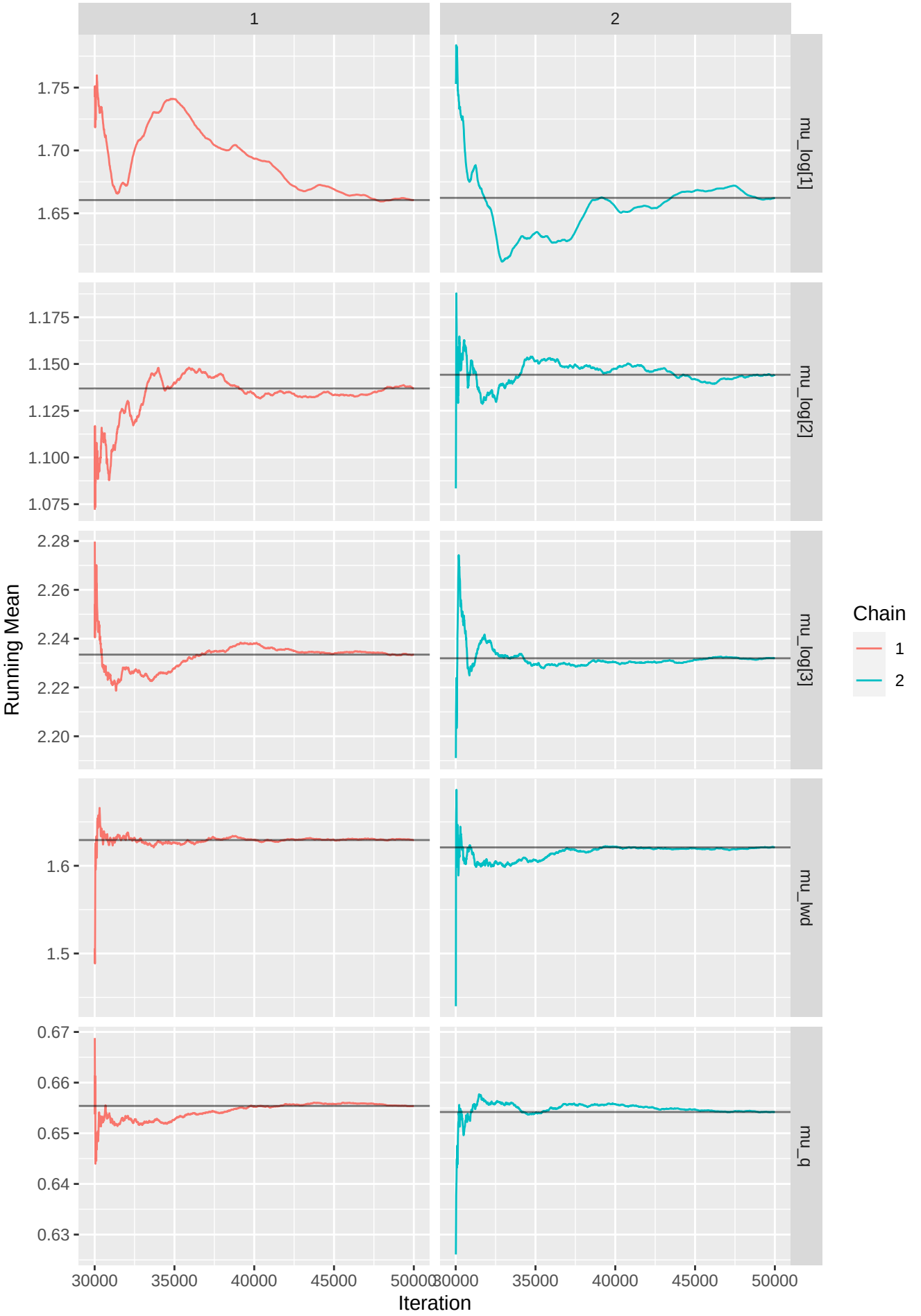

Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
value
Iteration
Chain
1
2
30000
35000
40000
45000
50000

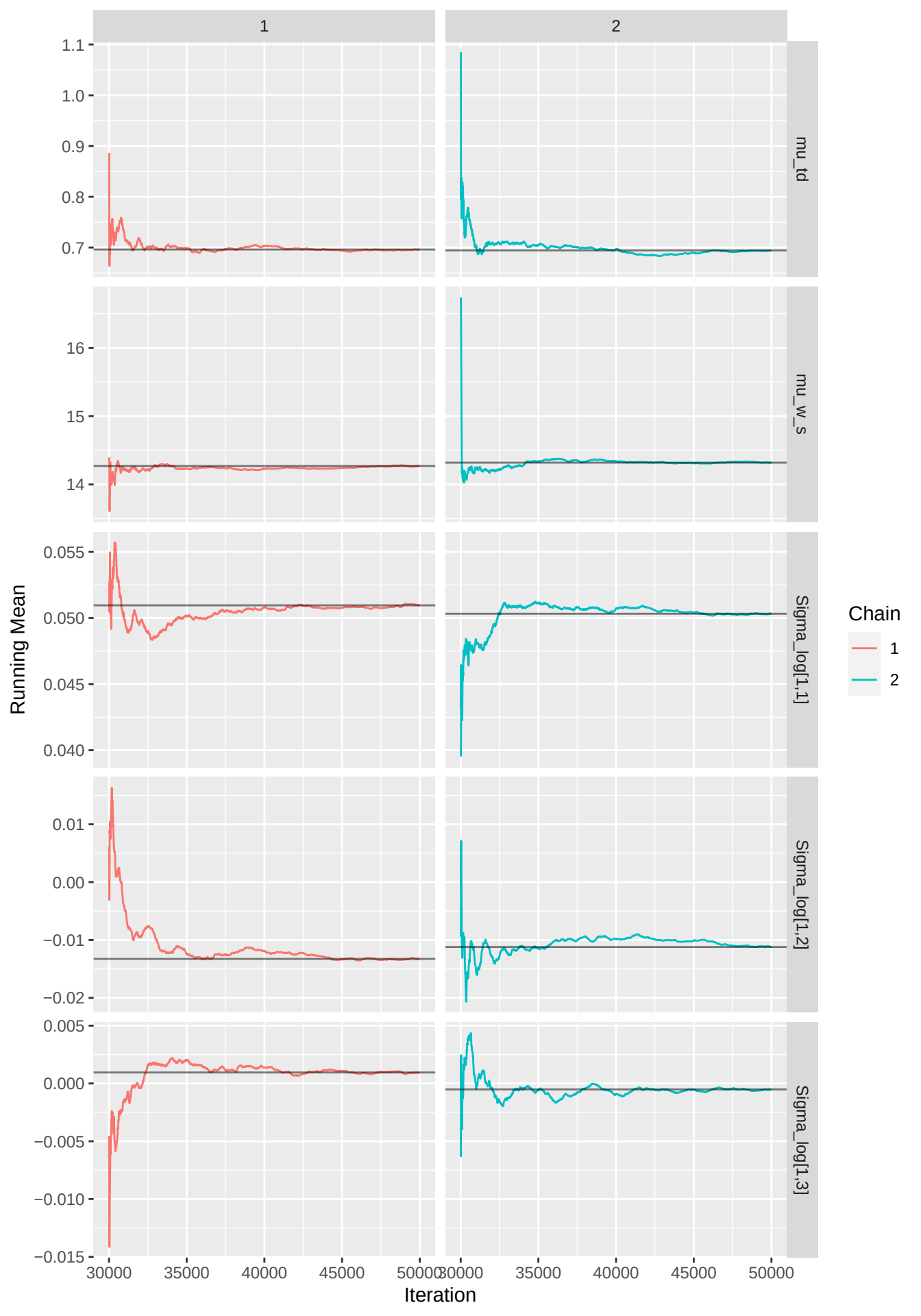

sigma_yy_sg
0.9
0.8
0.7
0.6
value
30000
35000
40000
45000
50000
Iteration
Chain
1
2

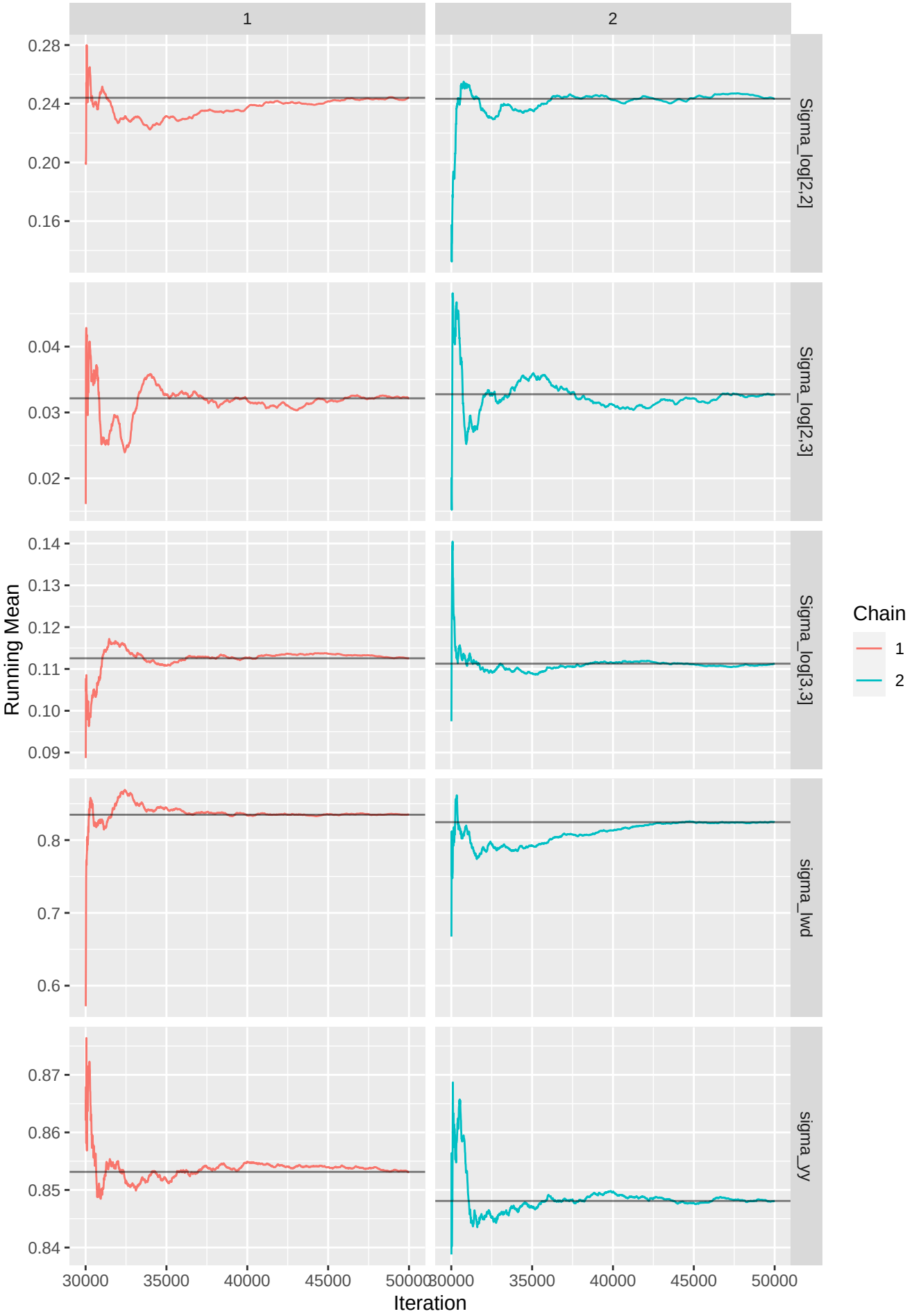

1
2
alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
−4.50
−4.55
−4.60
−4.65
−4.70
−4.7
−4.8
−4.9
7.86
7.85
7.84
7.83
7.82
7.81
7.80
7.75
7.70
0.0
−0.2
−0.4
Running Mean
30000
35000
40000
45000
50000
Iteration
Chain
1
2


1
2
beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
Running Mean
Iteration
Chain
1
2
0.35
0.30
0.25
0.20
0.04
0.02
0.00
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
0.1
0.0
−0.1
30000
35000
40000
45000
50000

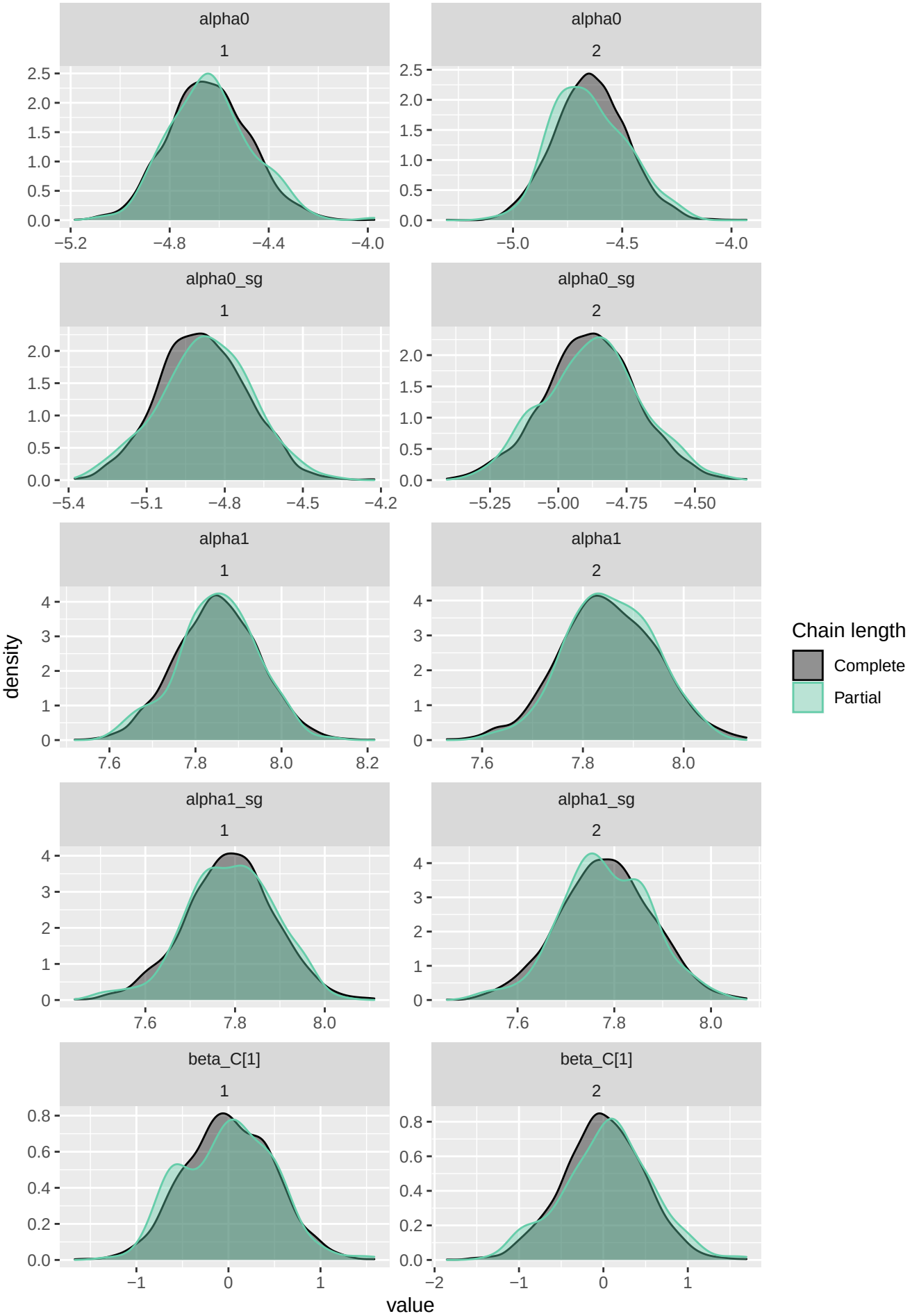

1
2
delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
0.300
0.275
0.250
26
24
22
20
14
13
12
11
27
26
25
24
23
1.9
1.8
1.7
1.6
Running Mean
30000
35000
40000
45000
50000
Iteration
Chain
1
2

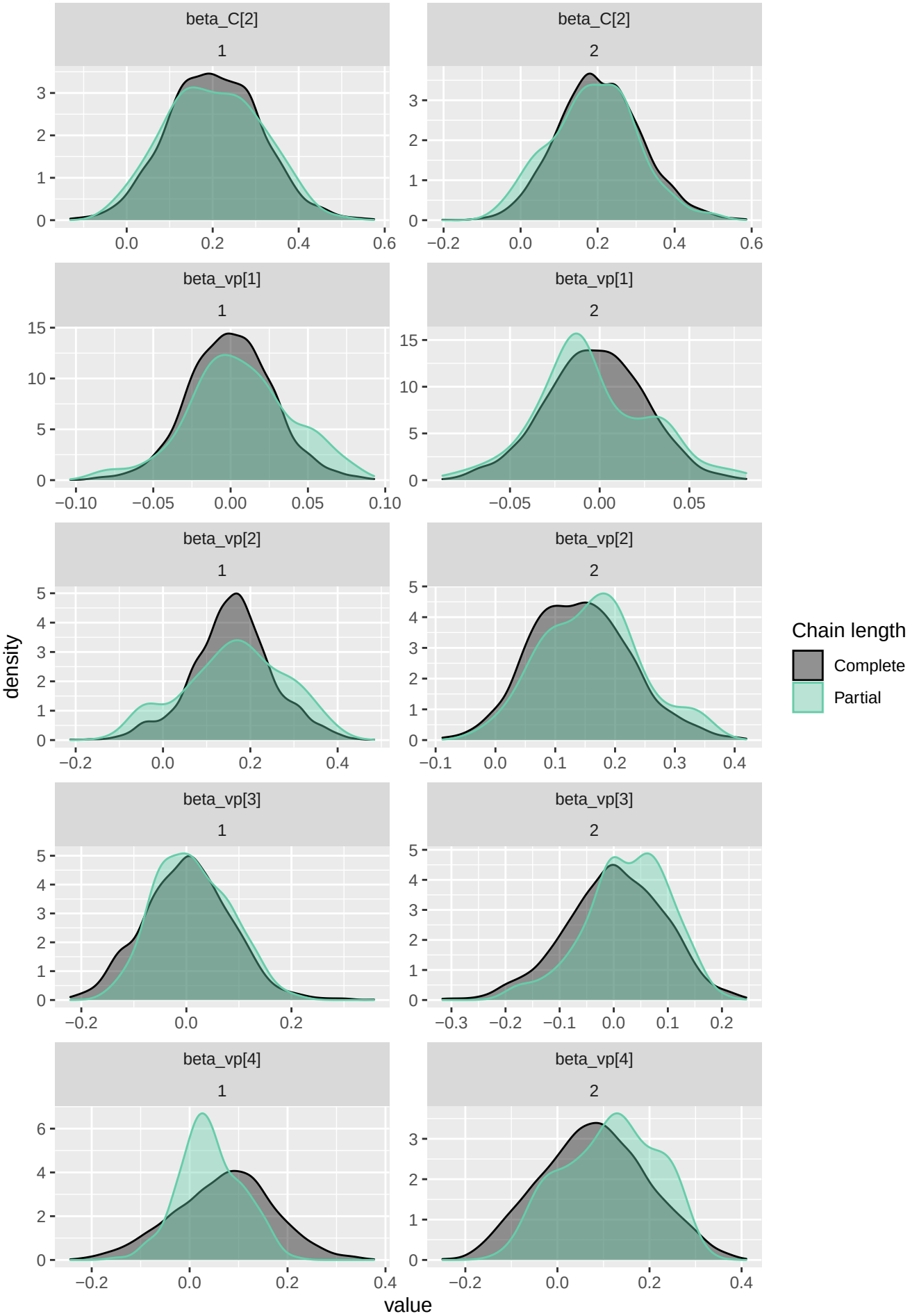

1
2
mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_q
1.75
1.70
1.65
1.175
1.150
1.125
1.100
1.075
2.28
2.26
2.24
2.22
2.20
1.6
1.5
0.67
0.66
0.65
0.64
0.63
30000
35000
40000
45000
50000
Iteration
Running Mean
Chain
1
2

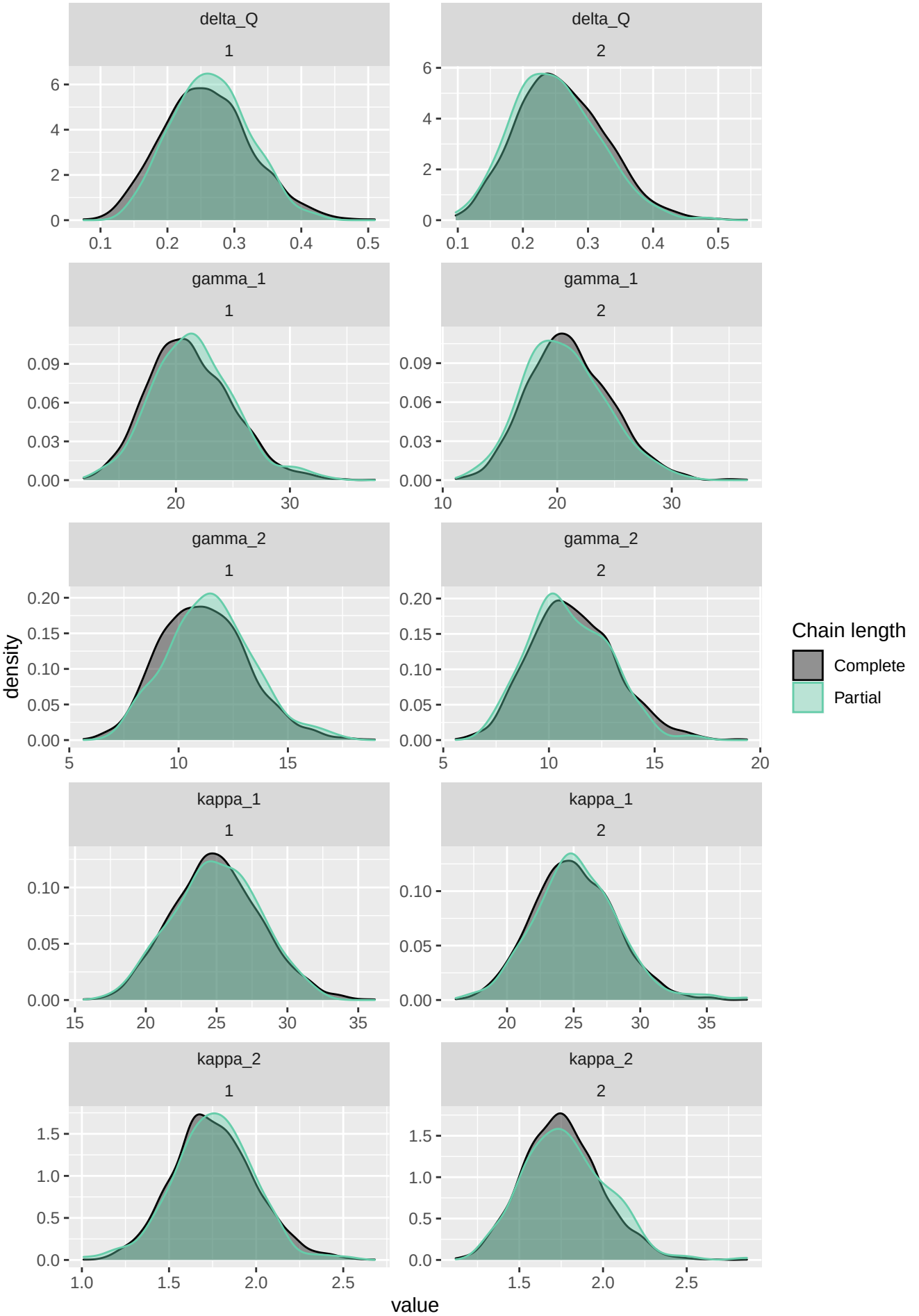

1
2
mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
Running Mean
Iteration
Chain
1
2
1.1
1.0
0.9
0.8
0.7
16
15
14
0.055
0.050
0.045
0.040
0.01
0.00
−0.01
−0.02
0.005
0.000
−0.005
−0.010
−0.015
30000
35000
40000
45000
50000

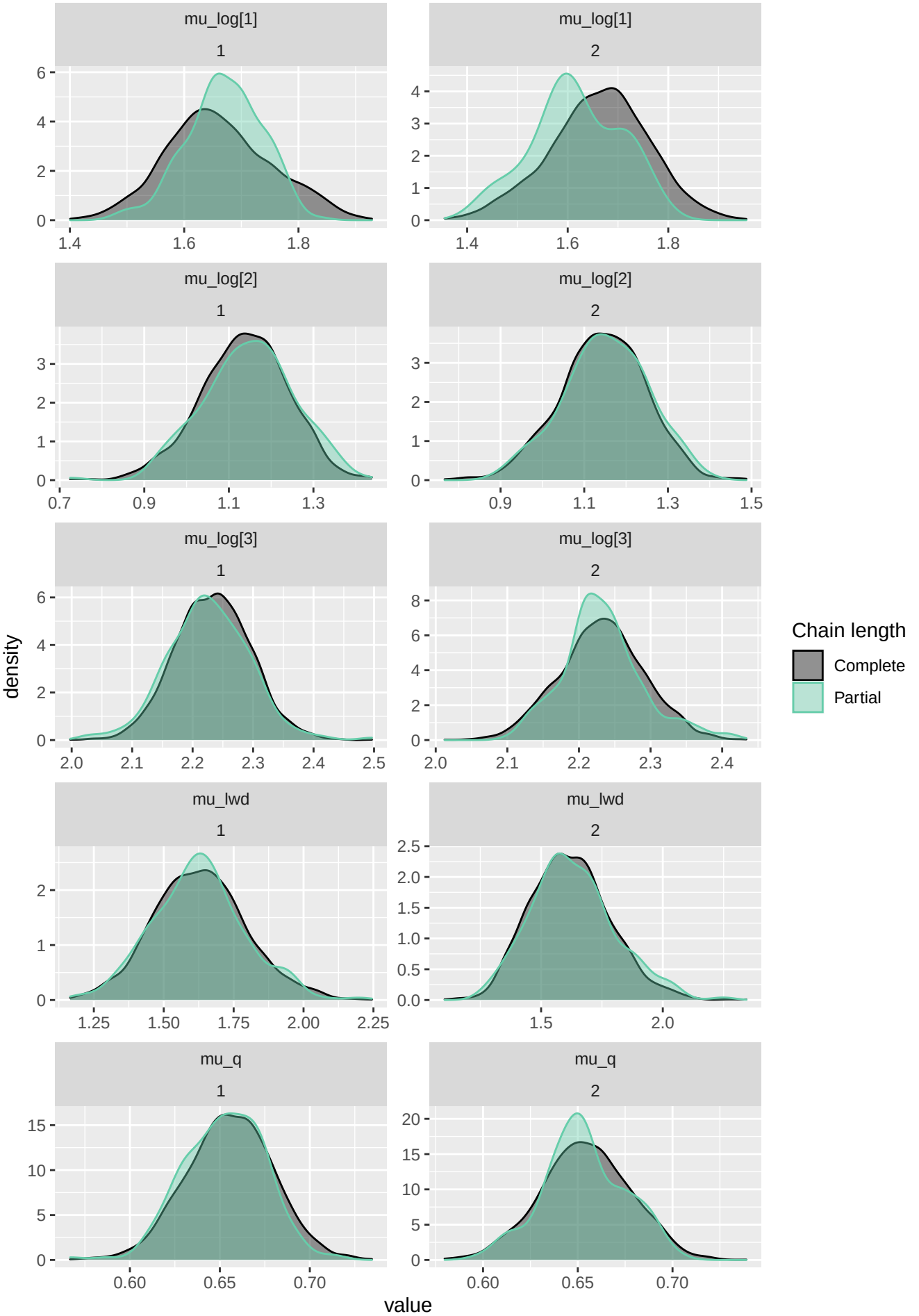

1
2
Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
Running Mean
Iteration
Chain
1
2
0.28
0.24
0.20
0.16
0.04
0.03
0.02
0.14
0.13
0.12
0.11
0.10
0.09
0.8
0.7
0.6
0.87
0.86
0.85
0.84
30000
35000
40000
45000
50000

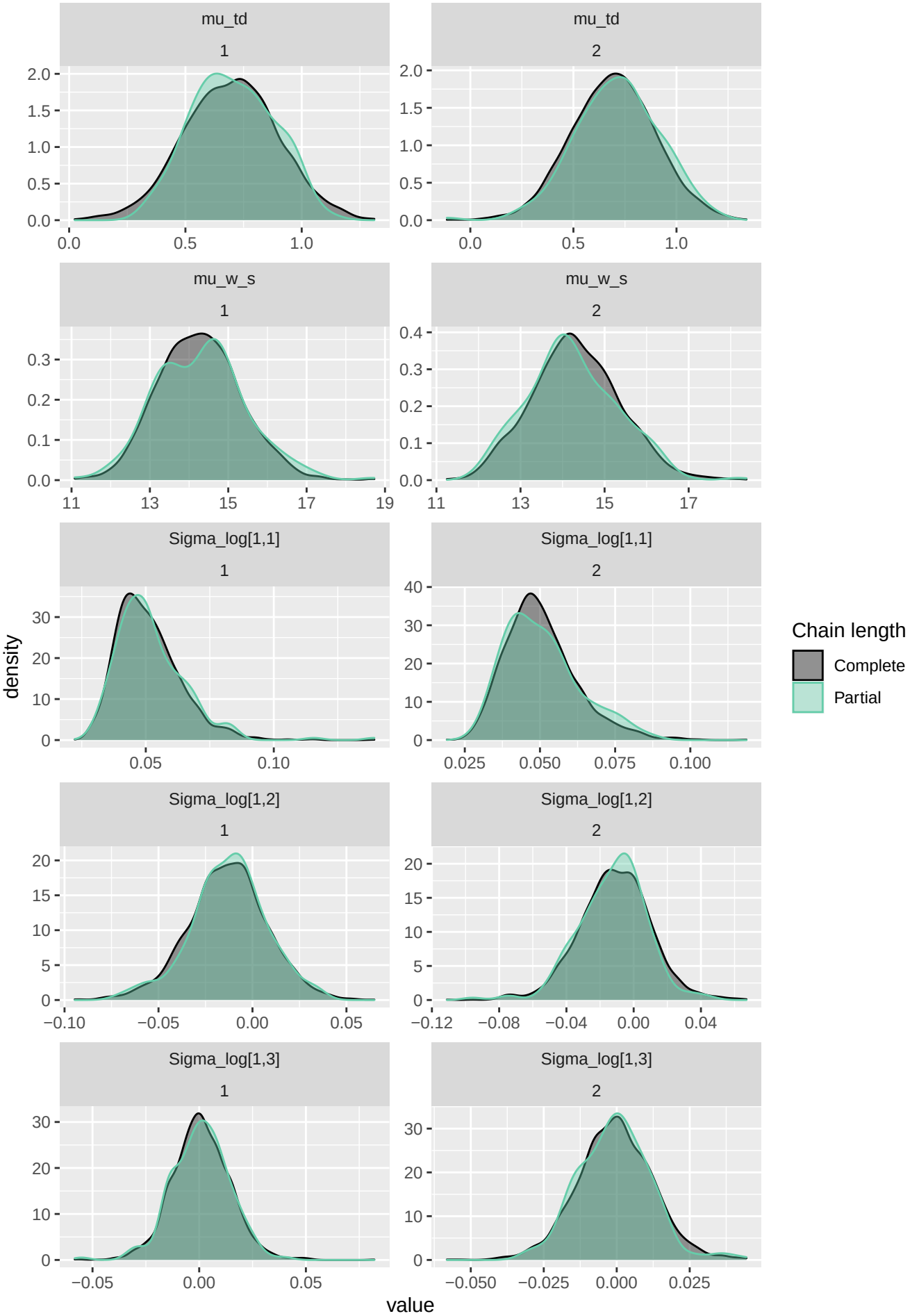

1
2
0.76
0.74
0.72
Running Mean
30000
35000
40000
45000
50000
Iteration
sigma_yy_sg
Chain
1
2

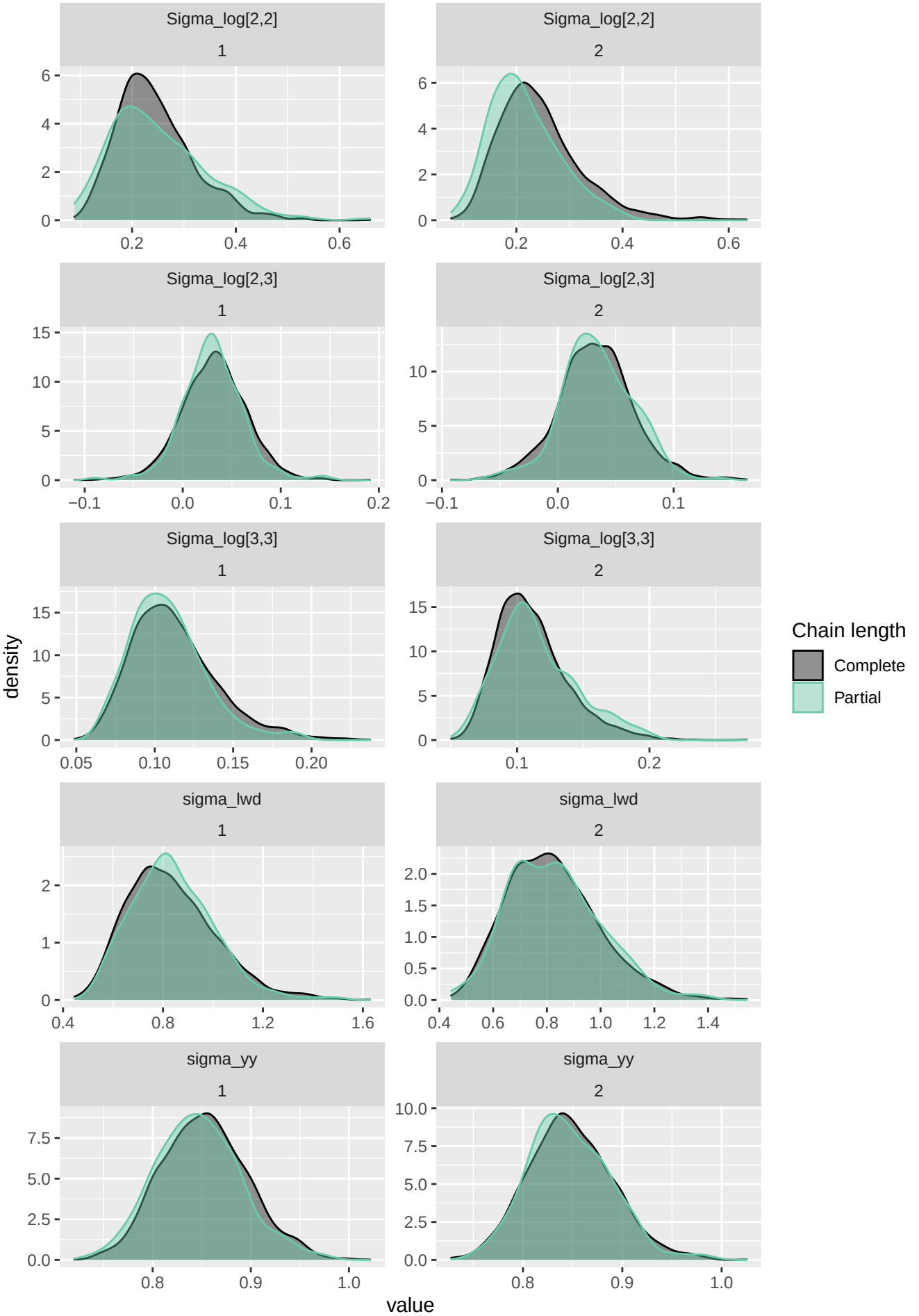

alpha0
1
alpha0
2
alpha0_sg
1
alpha0_sg
2
alpha1
1
alpha1
2
alpha1_sg
1
alpha1_sg
2
beta_C[1]
1
beta_C[1]
2
density
value
Chain length
Complete
Partial

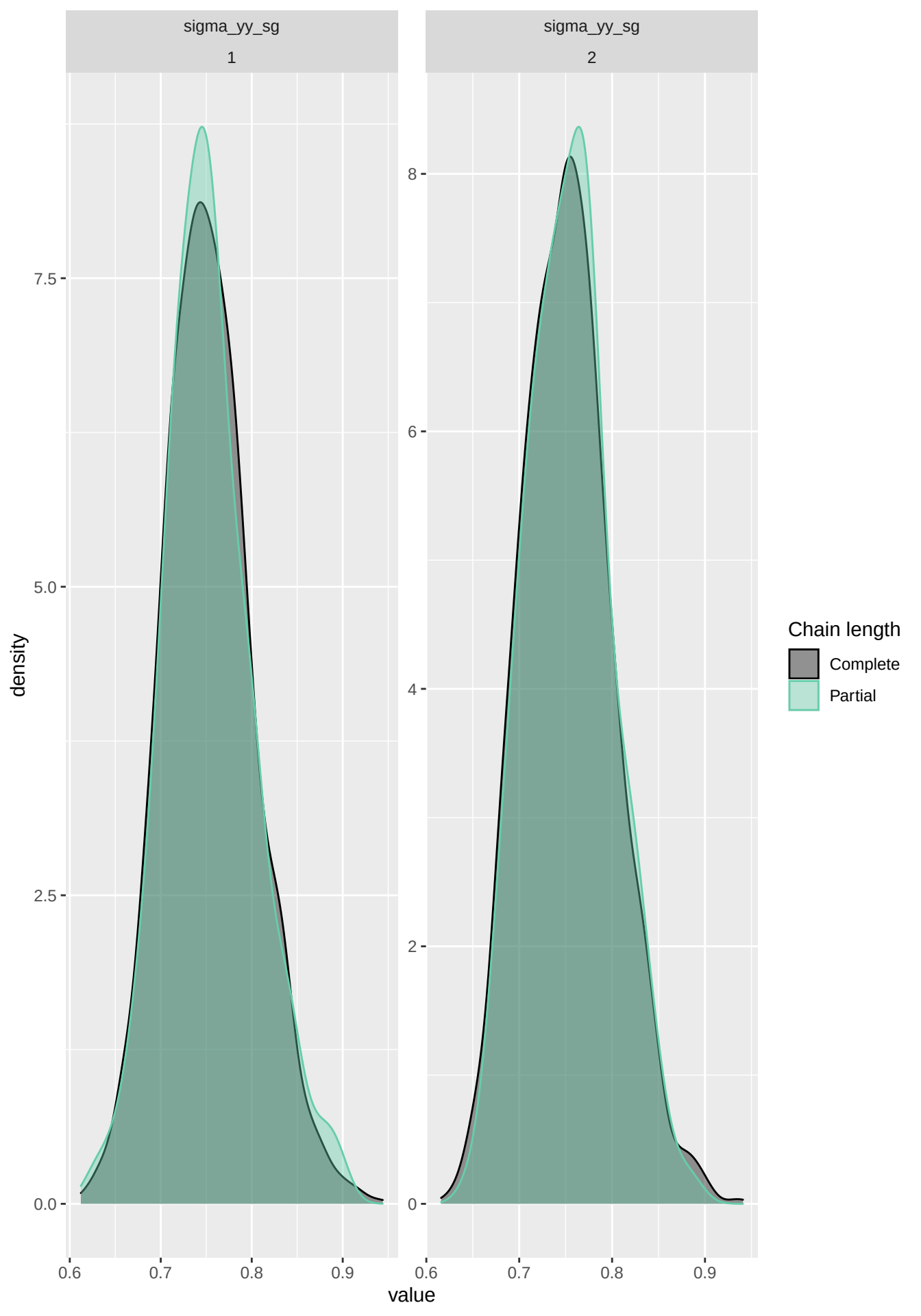

beta_C[2]
1
beta_C[2]
2
beta_vp[1]
1
beta_vp[1]
2
beta_vp[2]
1
beta_vp[2]
2
beta_vp[3]
1
beta_vp[3]
2
beta_vp[4]
1
beta_vp[4]
2
density
value
Chain length
Complete
Partial

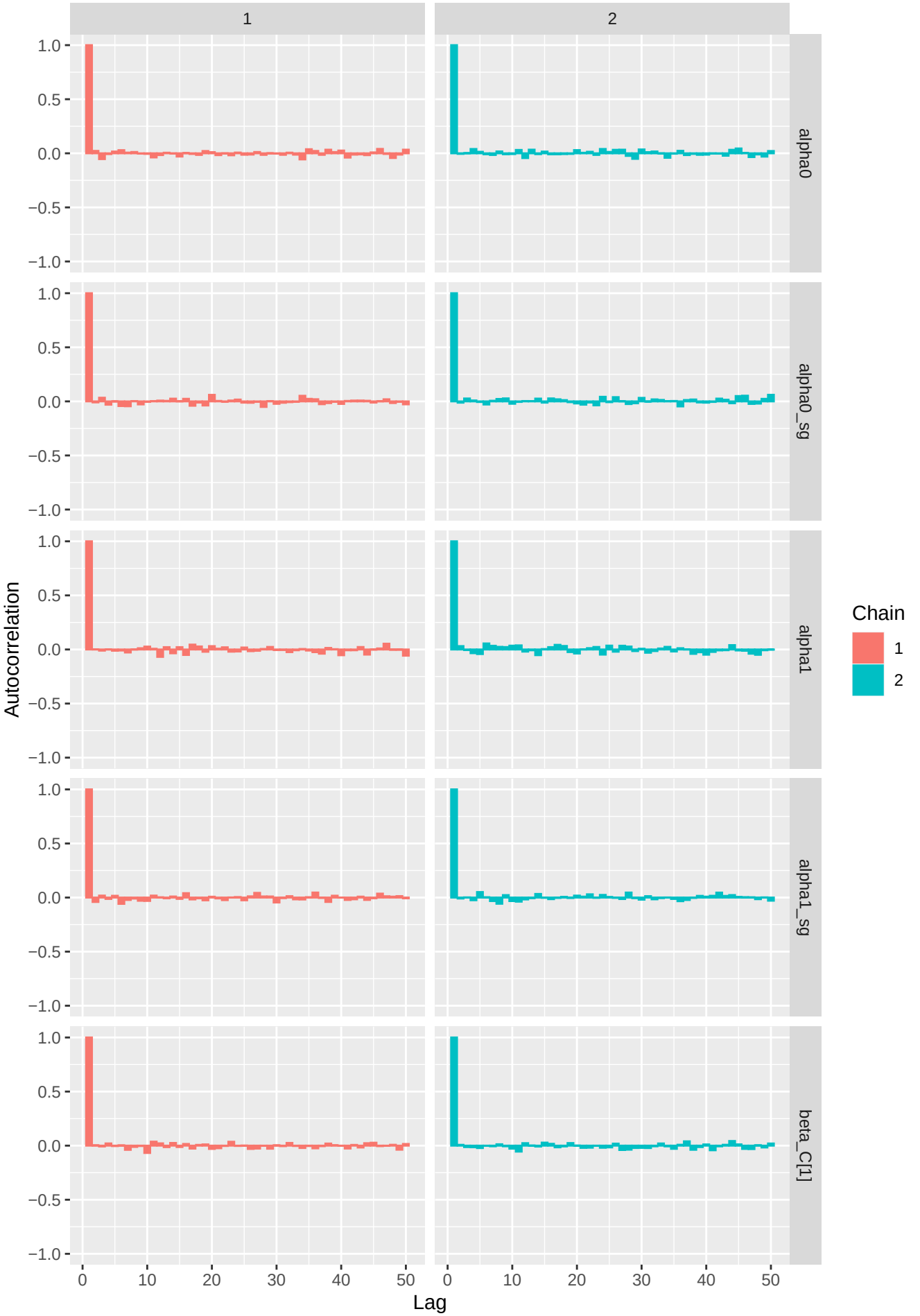

delta_Q
1
delta_Q
2
gamma_1
1
gamma_1
2
gamma_2
1
gamma_2
2
kappa_1
1
kappa_1
2
kappa_2
1
kappa_2
2
density
value
Chain length
Complete
Partial

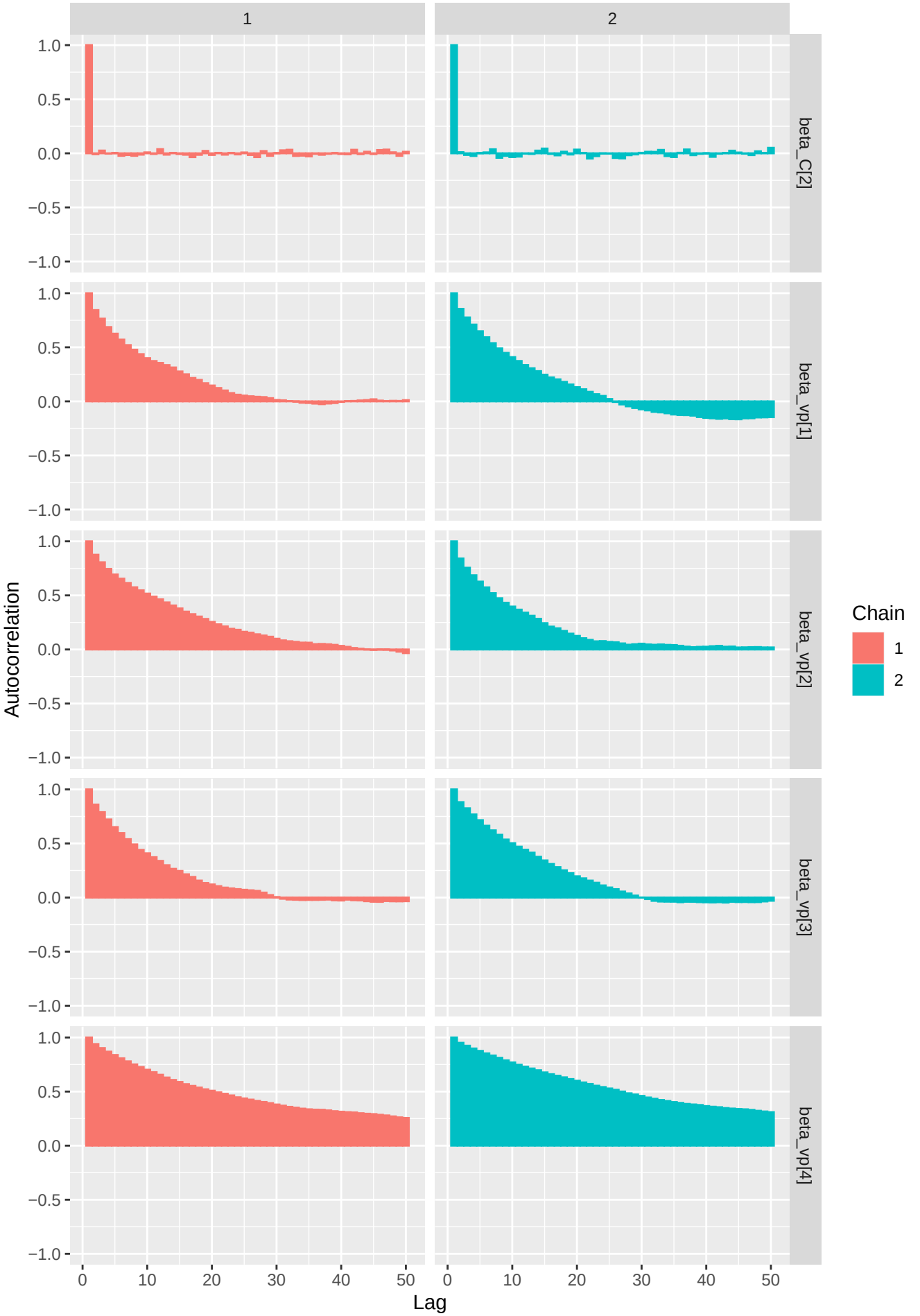

mu_log[1]
1
mu_log[1]
2
mu_log[2]
1
mu_log[2]
2
mu_log[3]
1
mu_log[3]
2
mu_lwd
1
mu_lwd
2
mu_q
1
mu_q
2
density
value
Chain length
Complete
Partial

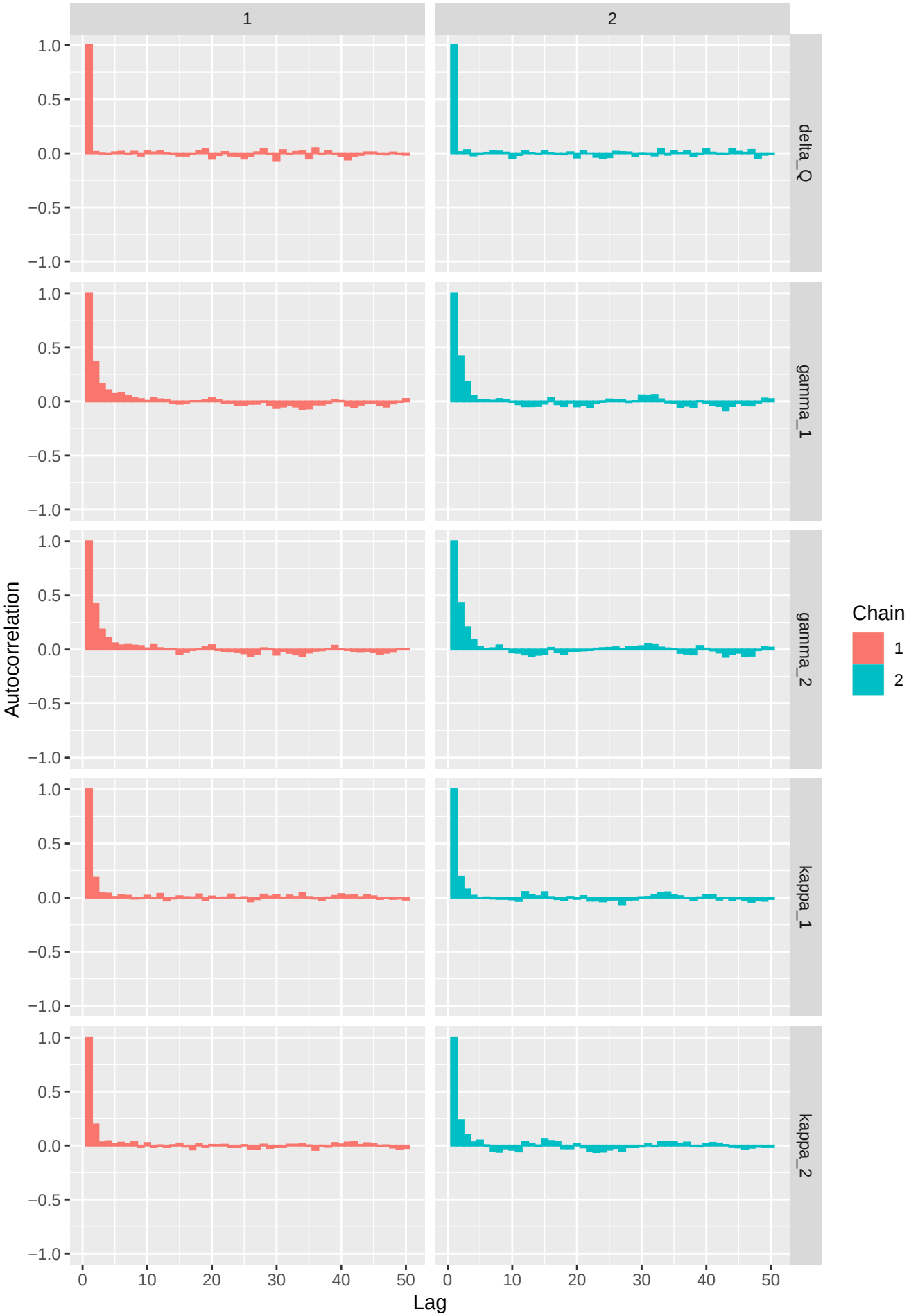

mu_td
1
mu_td
2
mu_w_s
1
mu_w_s
2
Sigma_log[1,1]
1
Sigma_log[1,1]
2
Sigma_log[1,2]
1
Sigma_log[1,2]
2
Sigma_log[1,3]
1
Sigma_log[1,3]
2
density
value
Chain length
Complete
Partial

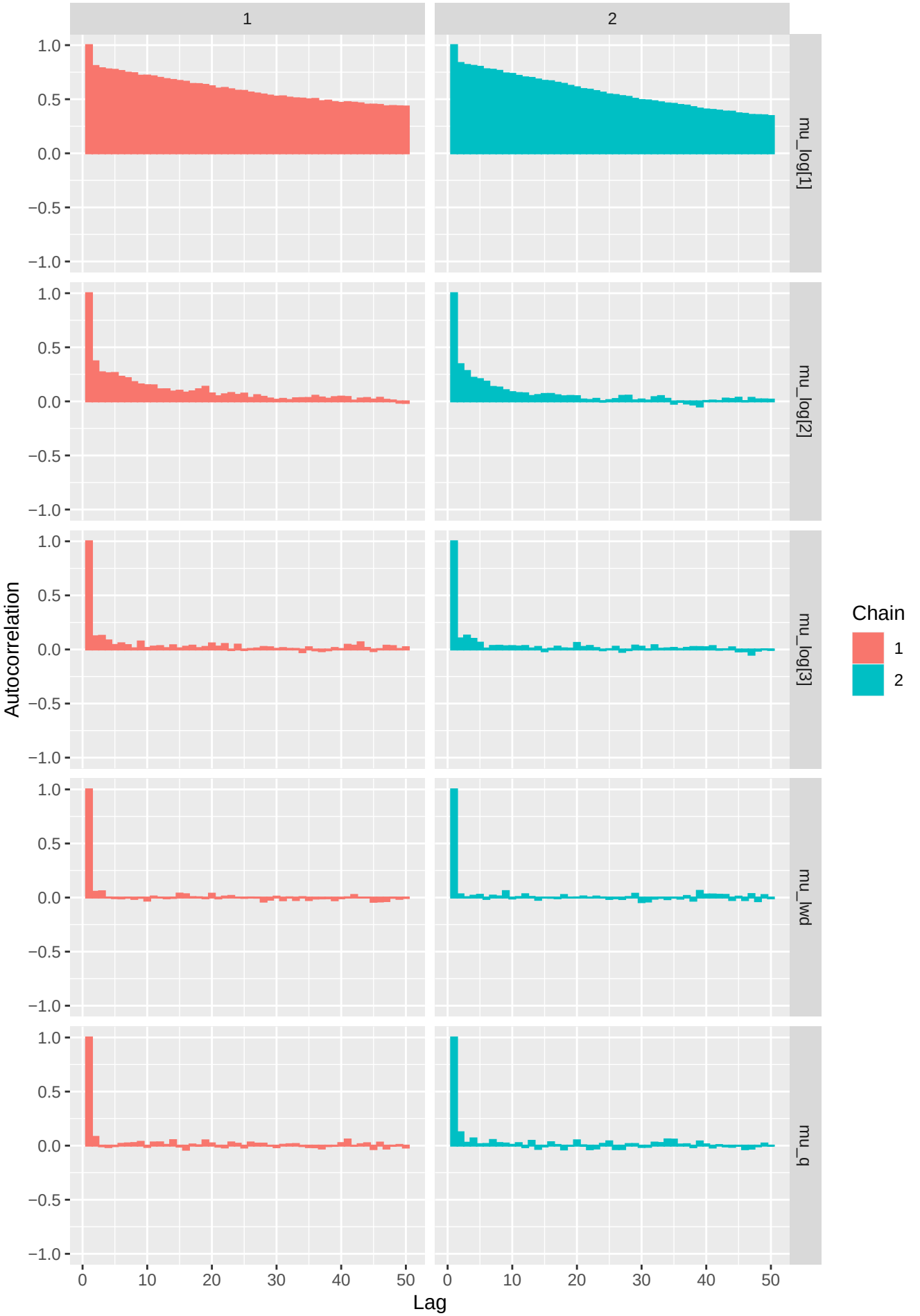

Sigma_log[2,2]
1
Sigma_log[2,2]
2
Sigma_log[2,3]
1
Sigma_log[2,3]
2
Sigma_log[3,3]
1
Sigma_log[3,3]
2
sigma_lwd
1
sigma_lwd
2
sigma_yy
1
sigma_yy
2
density
value
Chain length
Complete
Partial

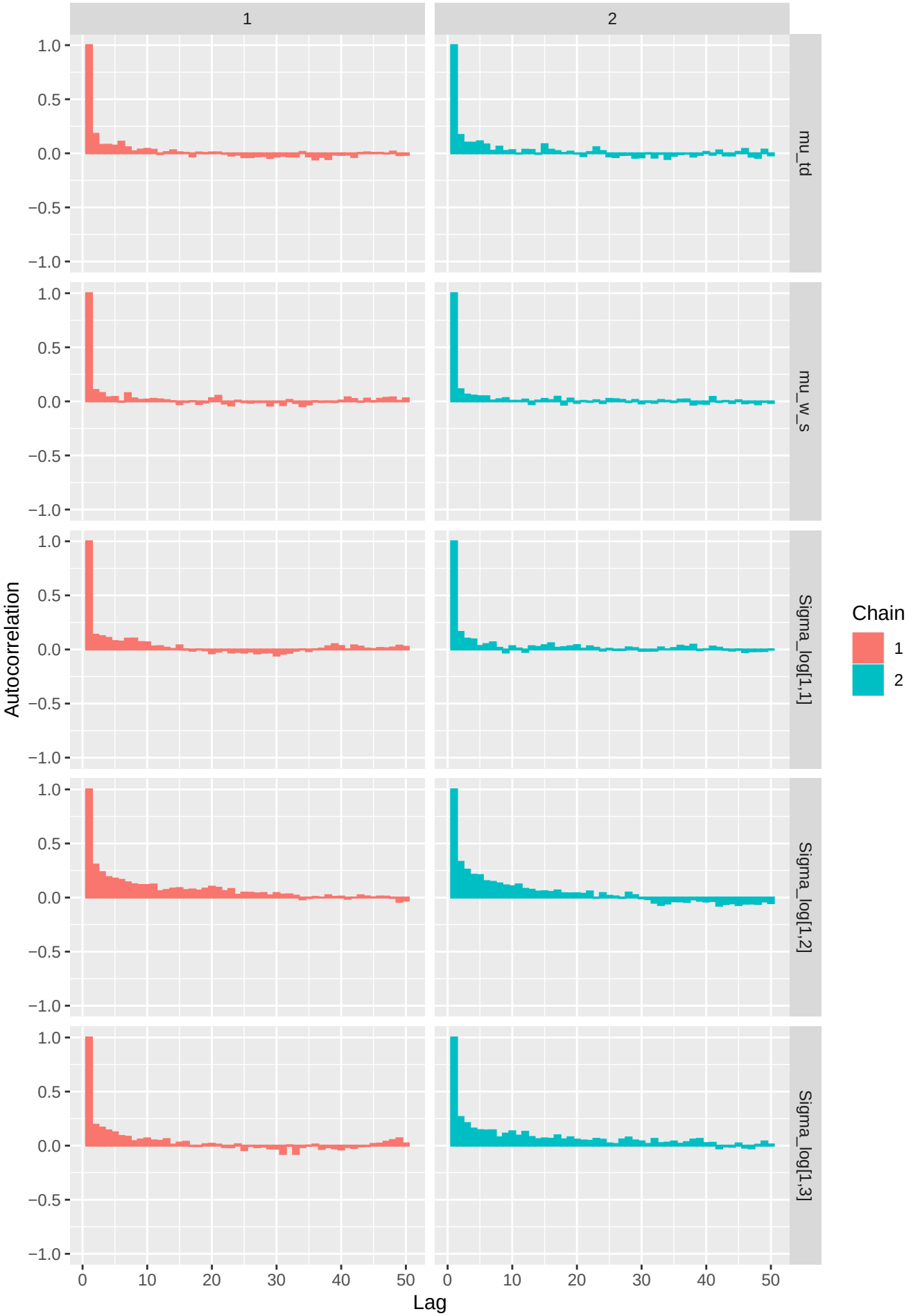

sigma_yy_sg
1
sigma_yy_sg
2
density
value
0.0
2.5
5.0
7.5
0
2
4
6
8
0.6
0.7
0.8
0.9
Chain length
Complete
Partial

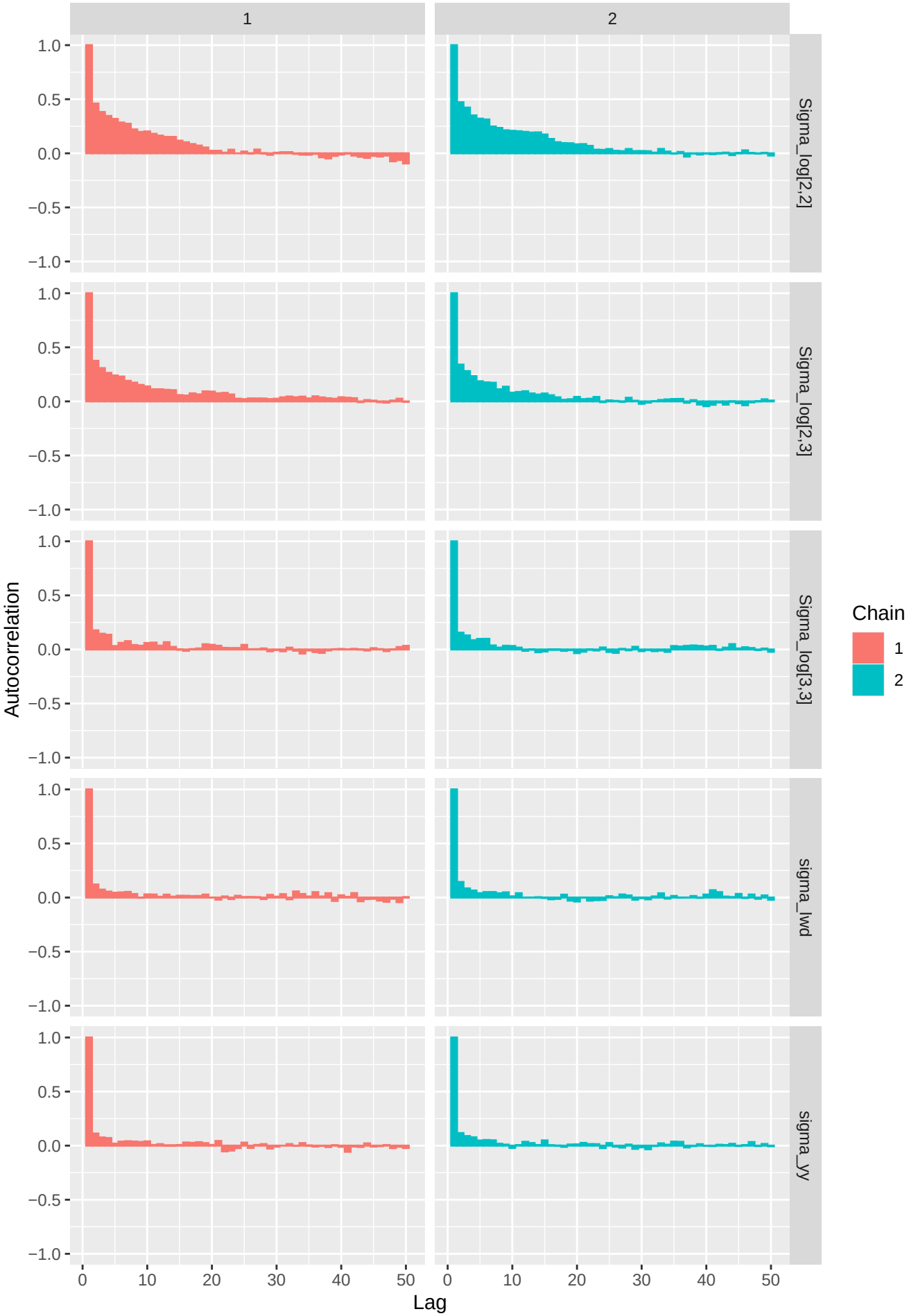

1
2
alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
Autocorrelation
Lag
Chain
1
2
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50

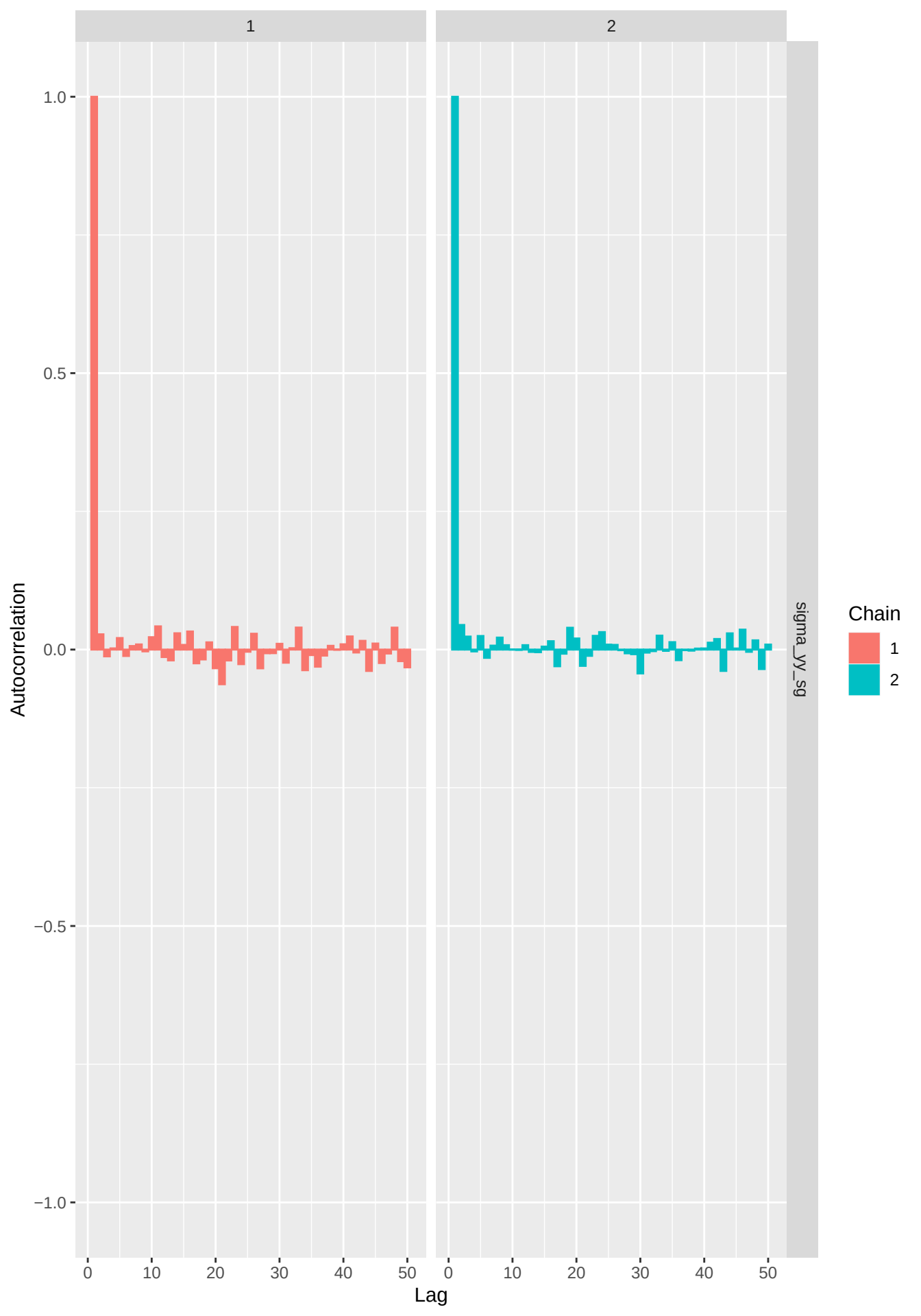

1
2
beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2

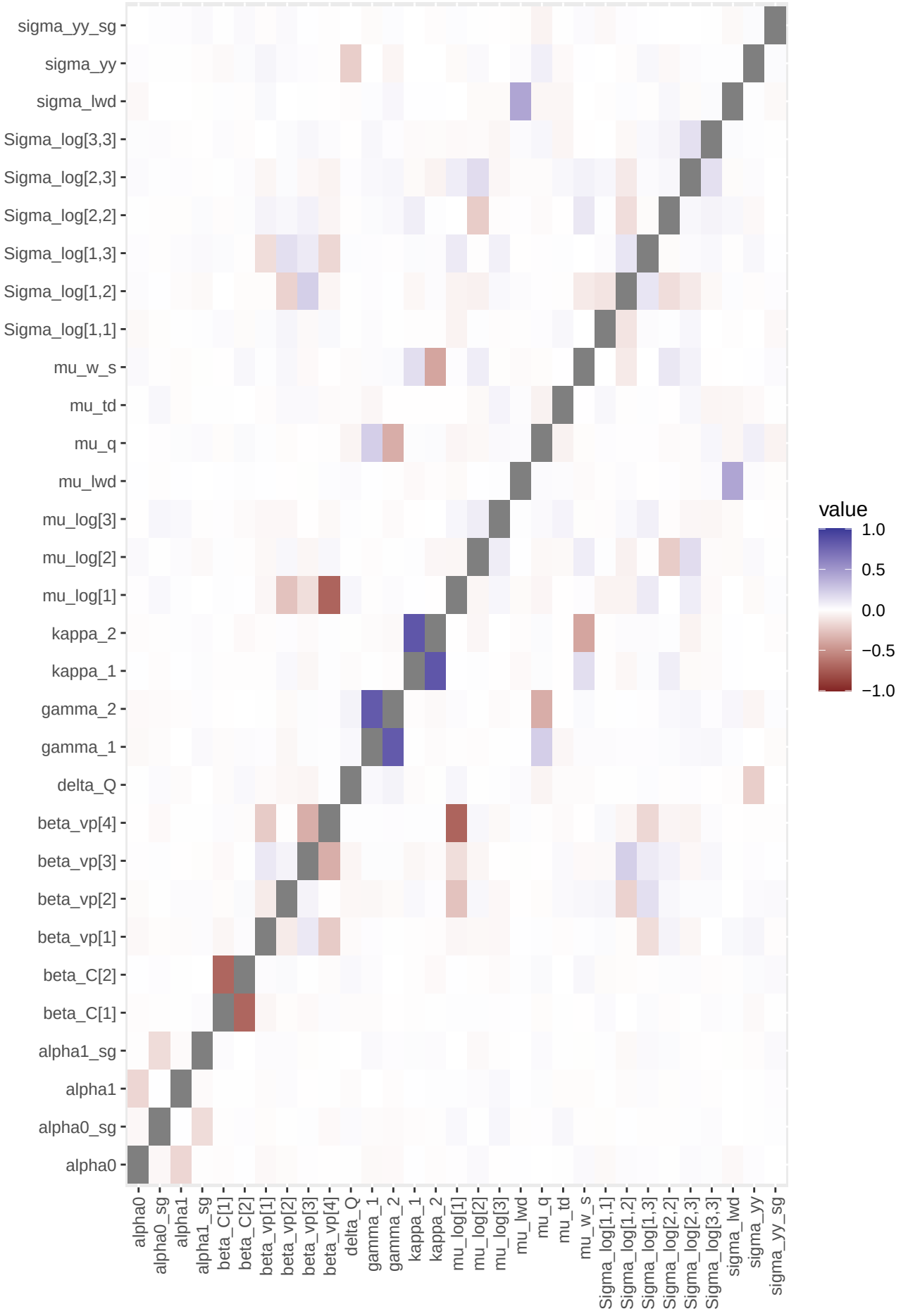

1
2
delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2

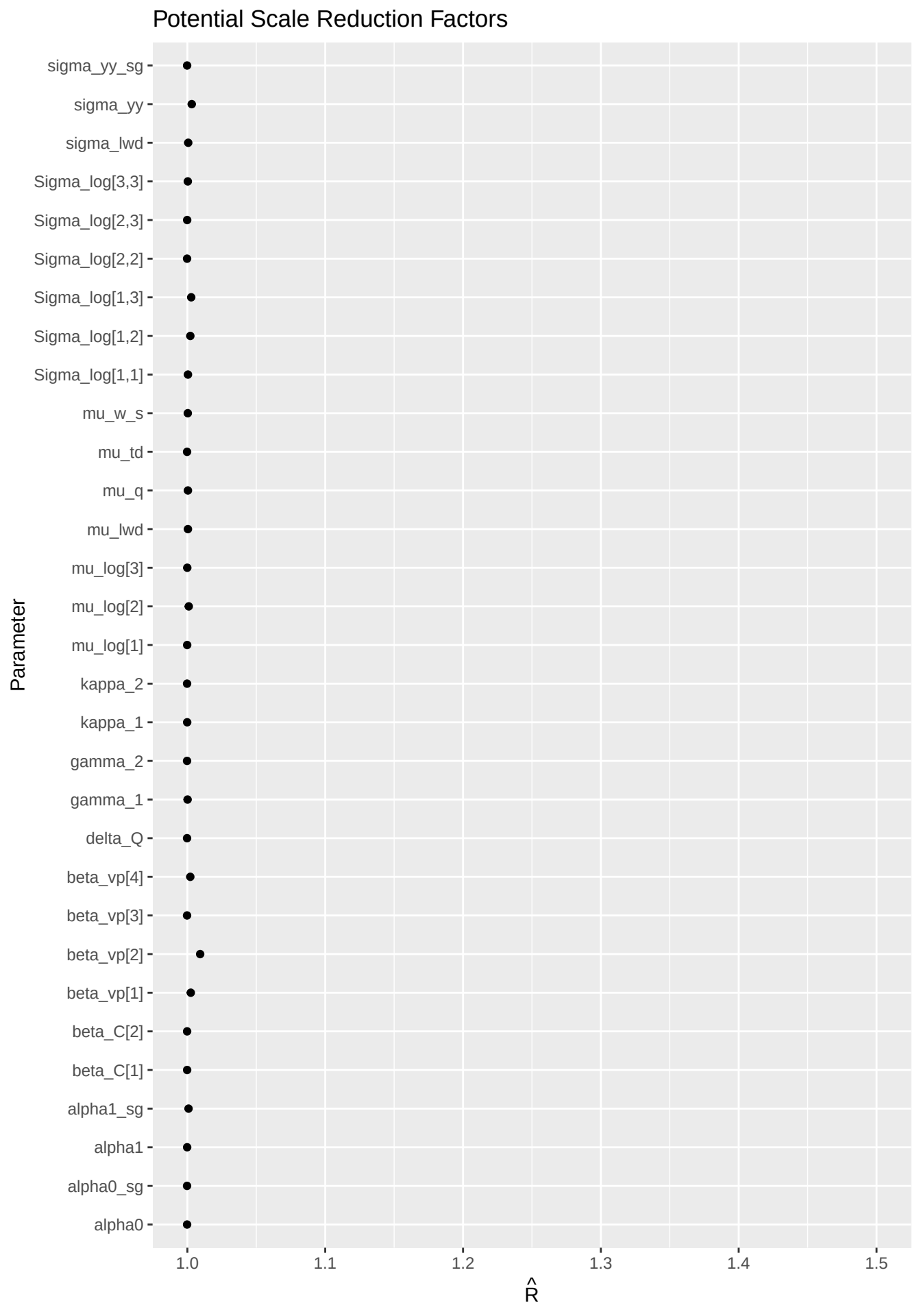

1
2
mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_b
Autocorrelation
Lag
Chain
1
2
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50

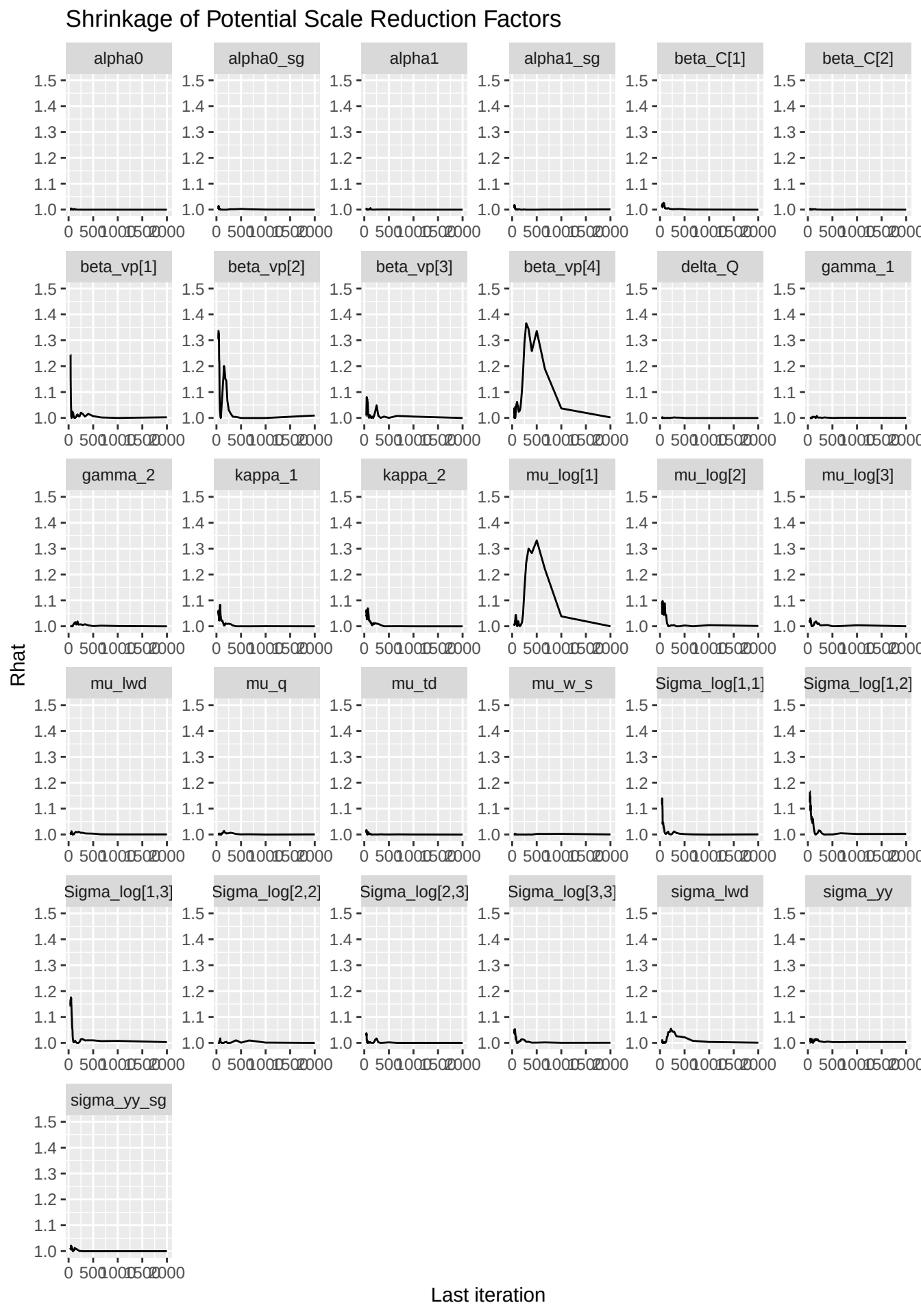

1
2
mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
Autocorrelation
Lag
Chain
1
2
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50

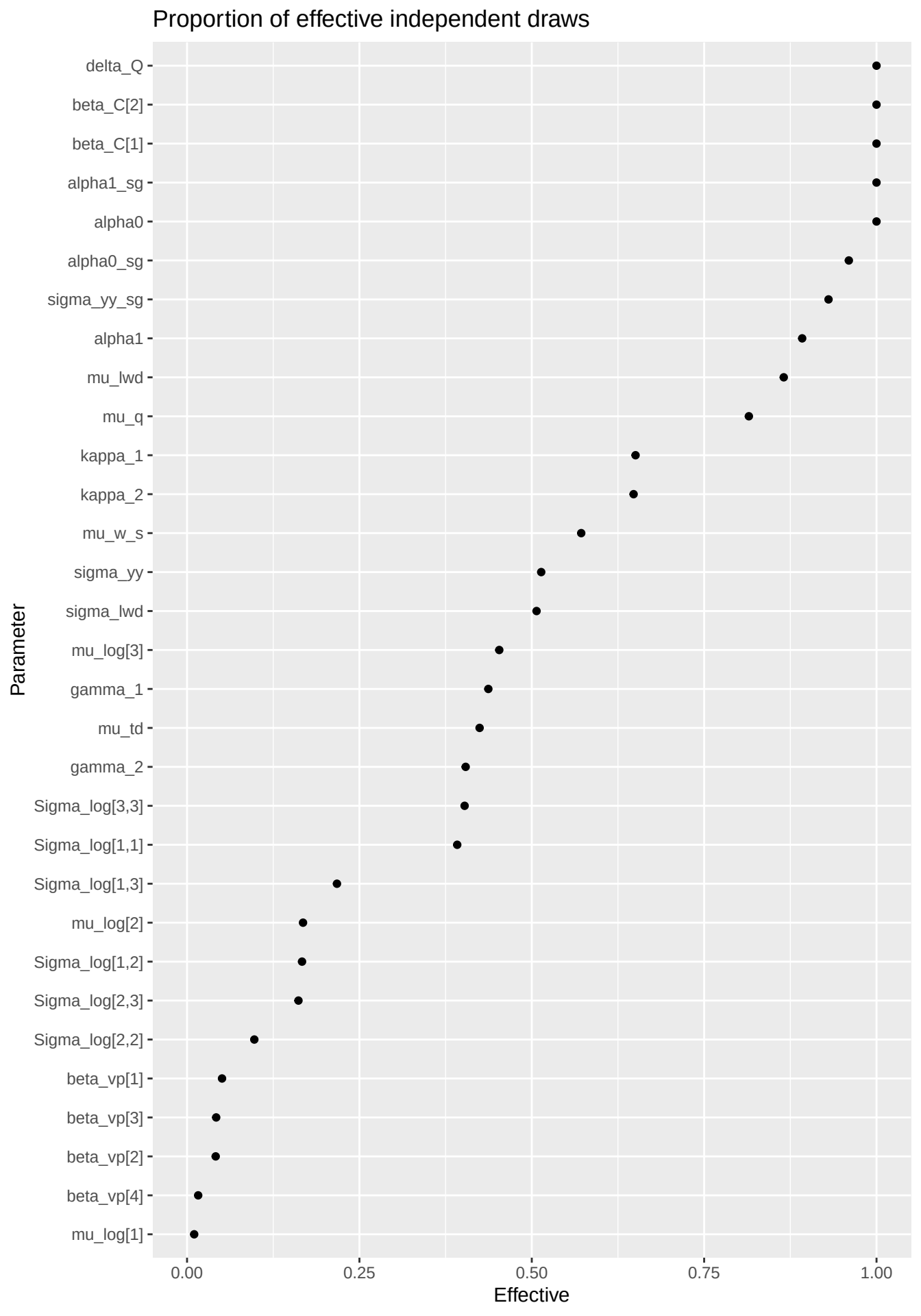

1
2
Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
Autocorrelation
Lag
Chain
1
2
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50

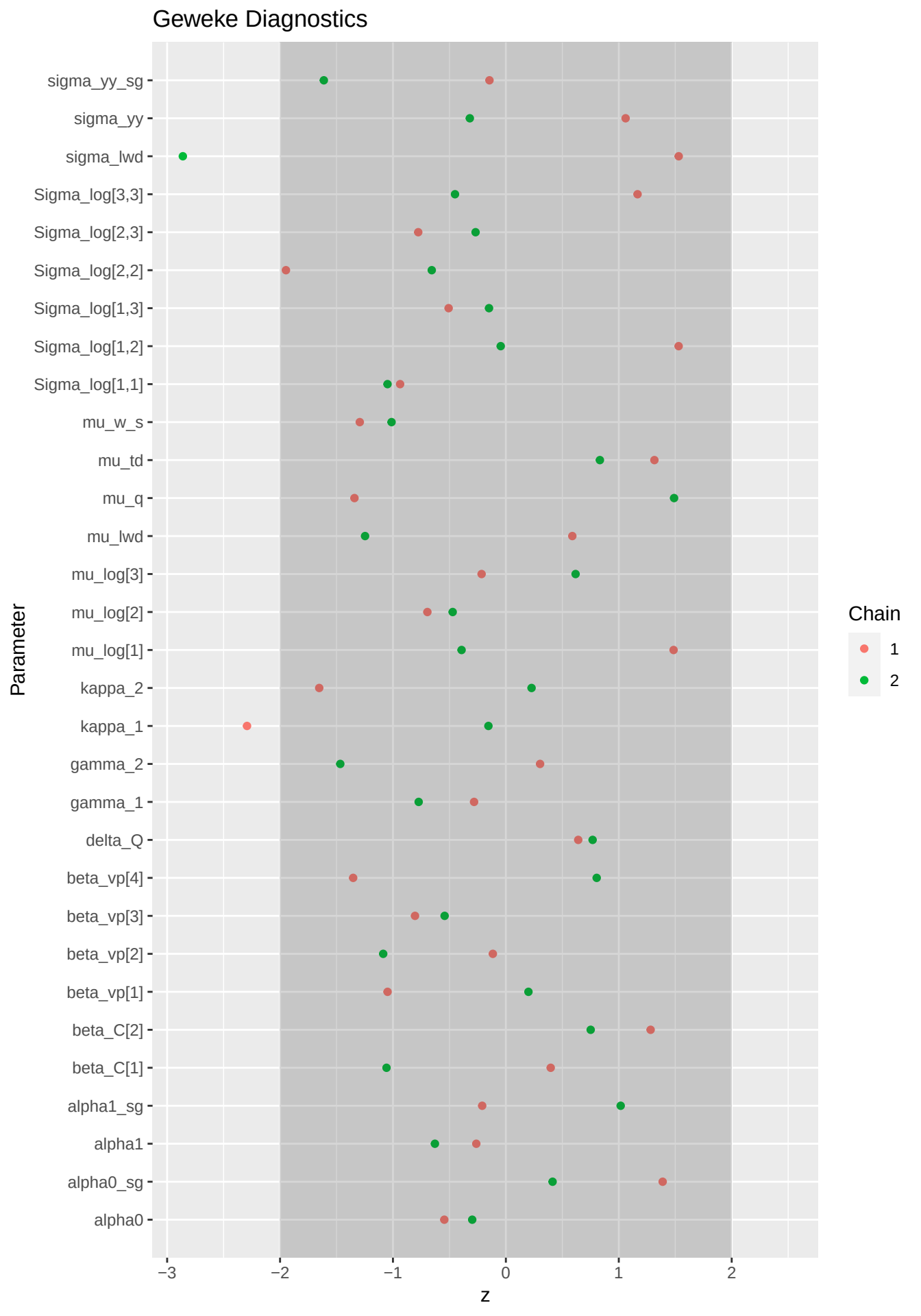

1
2
1.0
0.5
0.0
−0.5
−1.0
Autocorrelation
0
10
20
30
40
50
Lag
sigma_yy_sg
Chain
1
2

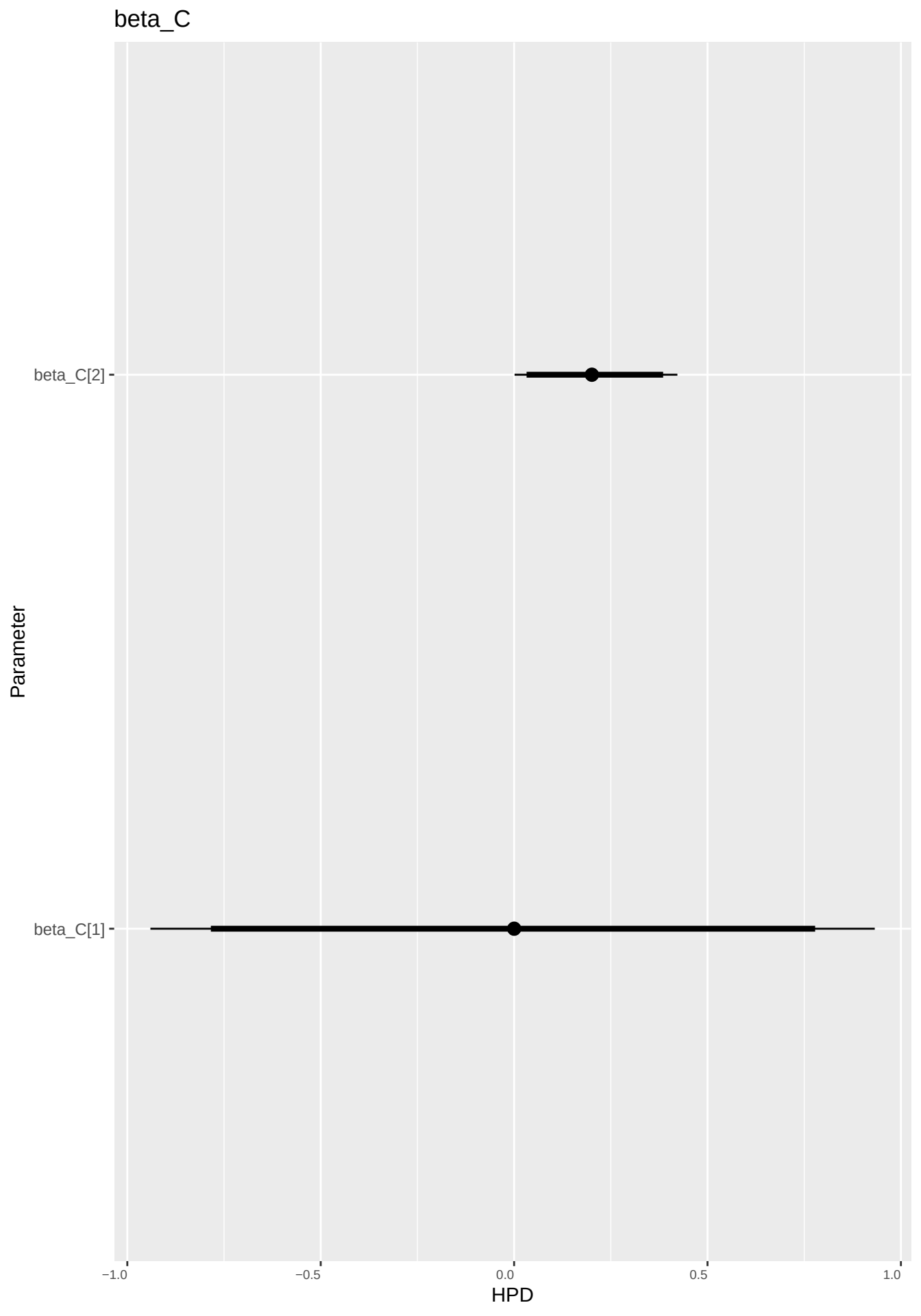

sigma_yy_sg
sigma_yy
sigma_lwd
Sigma_log[3,3]
Sigma_log[2,3]
Sigma_log[2,2]
Sigma_log[1,3]
Sigma_log[1,2]
Sigma_log[1,1]
mu_w_s
mu_td
mu_q
mu_lwd
mu_log[3]
mu_log[2]
mu_log[1]
kappa_2
kappa_1
gamma_2
gamma_1
delta_Q
beta_vp[4]
beta_vp[3]
beta_vp[2]
beta_vp[1]
beta_C[2]
beta_C[1]
alpha1_sg
alpha1
alpha0_sg
alpha0
alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_q
mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
sigma_yy_sg
value
1.0
0.5
0.0
−0.5
−1.0

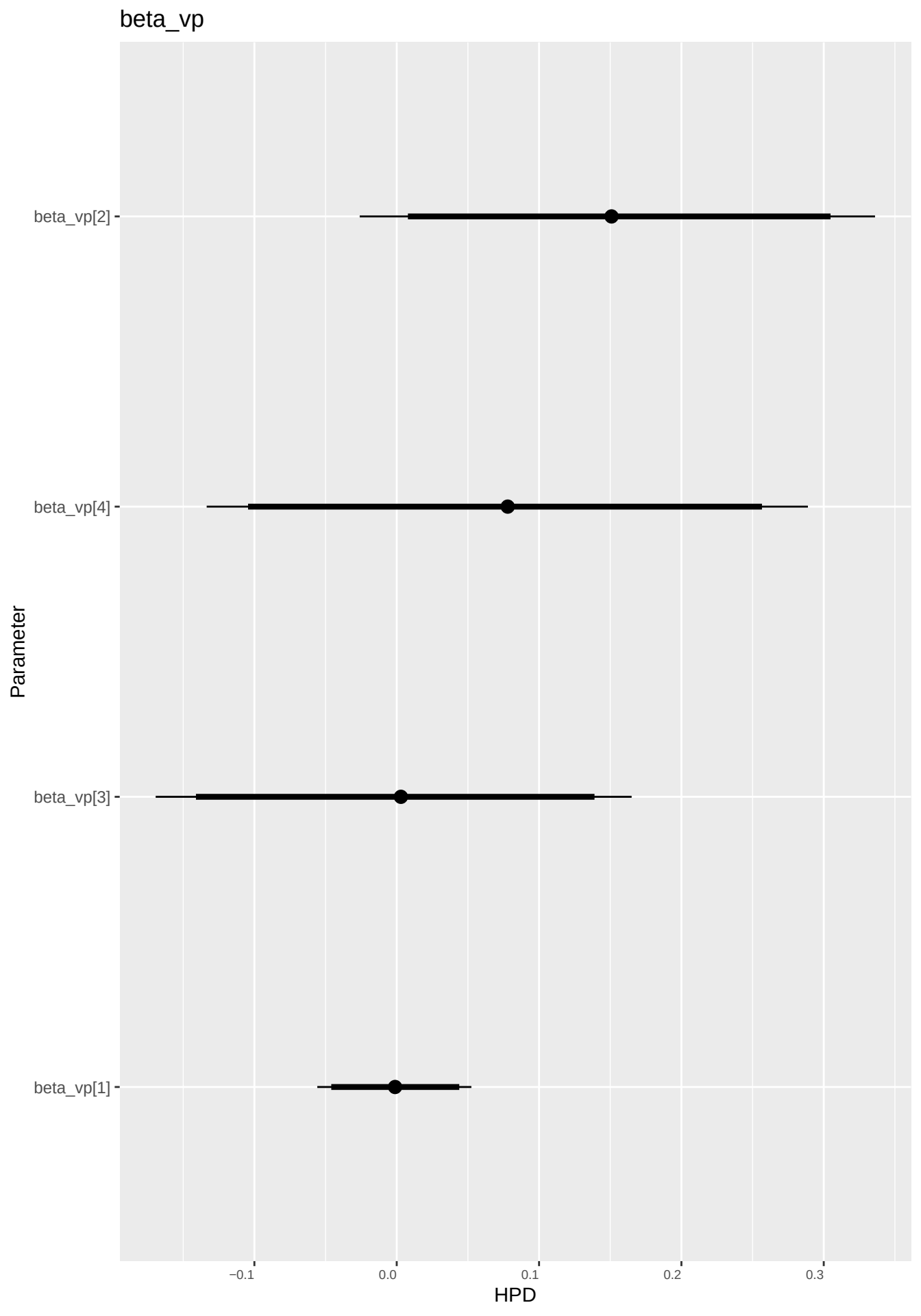

Potential Scale Reduction Factors
sigma_yy_sg
sigma_yy
sigma_lwd
Sigma_log[3,3]
Sigma_log[2,3]
Sigma_log[2,2]
Sigma_log[1,3]
Sigma_log[1,2]
Sigma_log[1,1]
mu_w_s
mu_td
mu_q
mu_lwd
mu_log[3]
mu_log[2]
mu_log[1]
kappa_2
kappa_1
gamma_2
gamma_1
delta_Q
beta_vp[4]
beta_vp[3]
beta_vp[2]
beta_vp[1]
beta_C[2]
beta_C[1]
alpha1_sg
alpha1
alpha0_sg
alpha0
Parameter
1.0
1.1
1.2
1.3
1.4
1.5
R̂

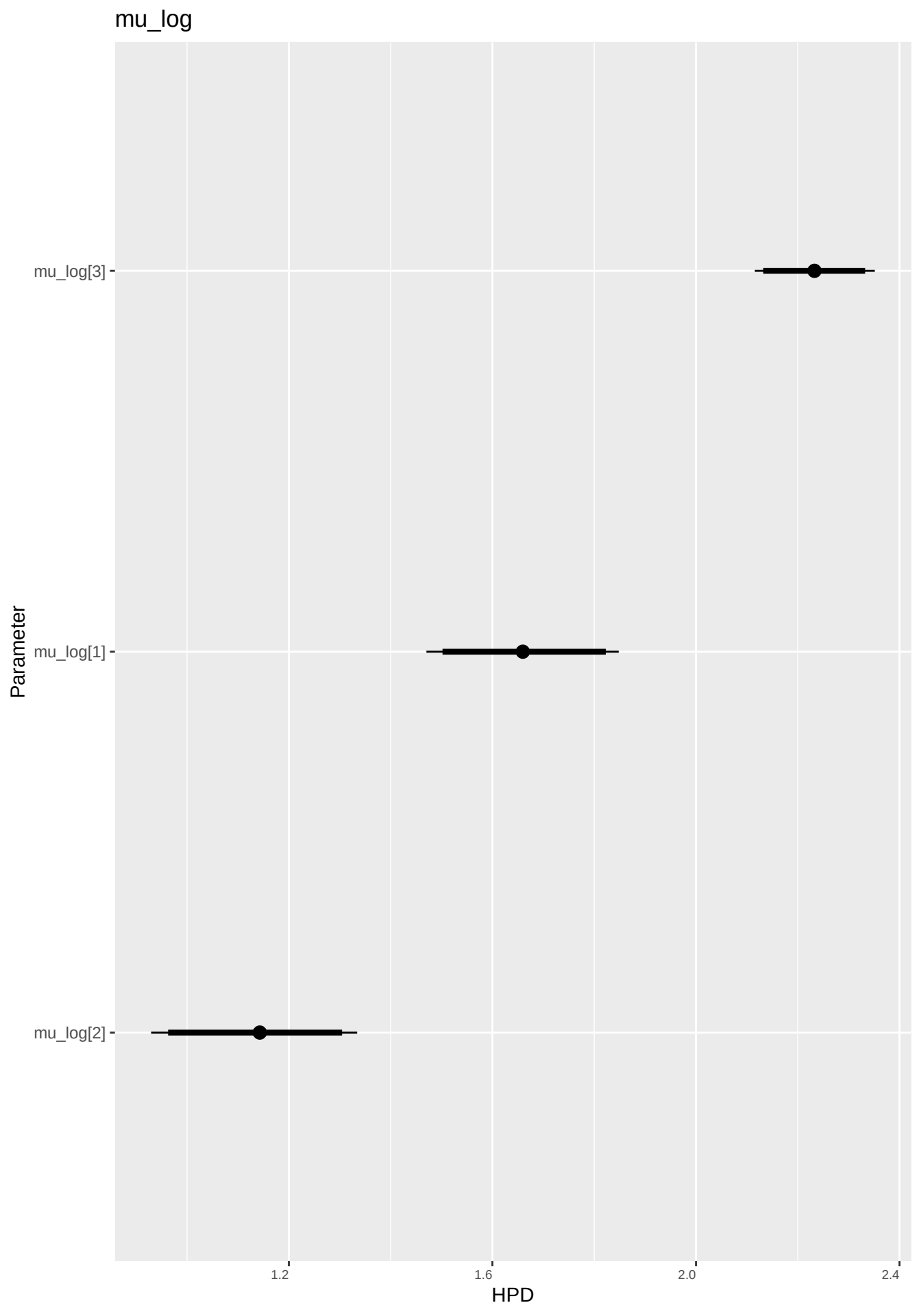

Shrinkage of Potential Scale Reduction Factors
alpha0
alpha0_sg
alpha1
alpha1_sg
beta_C[1]
beta_C[2]
beta_vp[1]
beta_vp[2]
beta_vp[3]
beta_vp[4]
delta_Q
gamma_1
gamma_2
kappa_1
kappa_2
mu_log[1]
mu_log[2]
mu_log[3]
mu_lwd
mu_q
mu_td
mu_w_s
Sigma_log[1,1]
Sigma_log[1,2]
Sigma_log[1,3]
Sigma_log[2,2]
Sigma_log[2,3]
Sigma_log[3,3]
sigma_lwd
sigma_yy
sigma_yy_sg
Rhat
1.0
1.1
1.2
1.3
1.4
1.5
0
500
1000
1500
2000
Last iteration

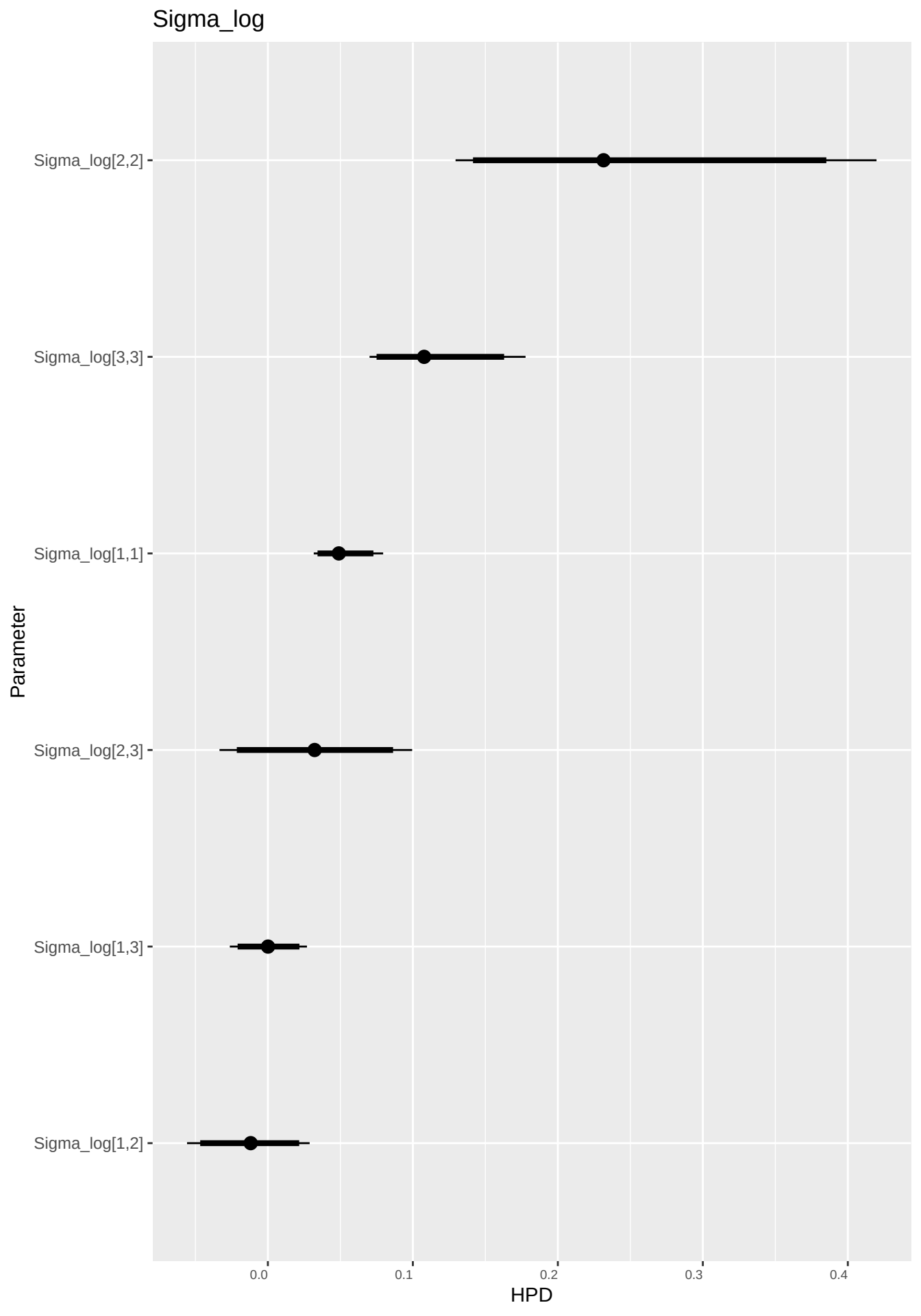

Proportion of effective independent draws
delta_Q
beta_C[2]
beta_C[1]
alpha1_sg
alpha0
alpha0_sg
sigma_yy_sg
alpha1
mu_lwd
mu_q
kappa_1
kappa_2
mu_w_s
sigma_yy
sigma_lwd
mu_log[3]
gamma_1
mu_td
gamma_2
Sigma_log[3,3]
Sigma_log[1,1]
Sigma_log[1,3]
mu_log[2]
Sigma_log[1,2]
Sigma_log[2,3]
Sigma_log[2,2]
beta_vp[1]
beta_vp[3]
beta_vp[2]
beta_vp[4]
mu_log[1]
Parameter
0.00
0.25
0.50
0.75
1.00
Effective


Geweke Diagnostics
sigma_yy_sg
sigma_yy
sigma_lwd
Sigma_log[3,3]
Sigma_log[2,3]
Sigma_log[2,2]
Sigma_log[1,3]
Sigma_log[1,2]
Sigma_log[1,1]
mu_w_s
mu_td
mu_q
mu_lwd
mu_log[3]
mu_log[2]
mu_log[1]
kappa_2
kappa_1
gamma_2
gamma_1
delta_Q
beta_vp[4]
beta_vp[3]
beta_vp[2]
beta_vp[1]
beta_C[2]
beta_C[1]
alpha1_sg
alpha1
alpha0_sg
alpha0
Parameter
−3
−2
−1
0
1
2
z
Chain
1
2


beta_C
beta_C[2]
beta_C[1]
Parameter
−1.0
−0.5
0.0
0.5
1.0
HPD


beta_vp
beta_vp[2]
beta_vp[4]
beta_vp[3]
beta_vp[1]
Parameter
−0.1
0.0
0.1
0.2
0.3
HPD


mu_log
mu_log[3]
mu_log[1]
mu_log[2]
Parameter
1.2
1.6
2.0
2.4
HPD


Sigma_log
Sigma_log[2,2]
Sigma_log[3,3]
Sigma_log[1,1]
Sigma_log[2,3]
Sigma_log[1,3]
Sigma_log[1,2]
Parameter
0.0
0.1
0.2
0.3
0.4
HPD