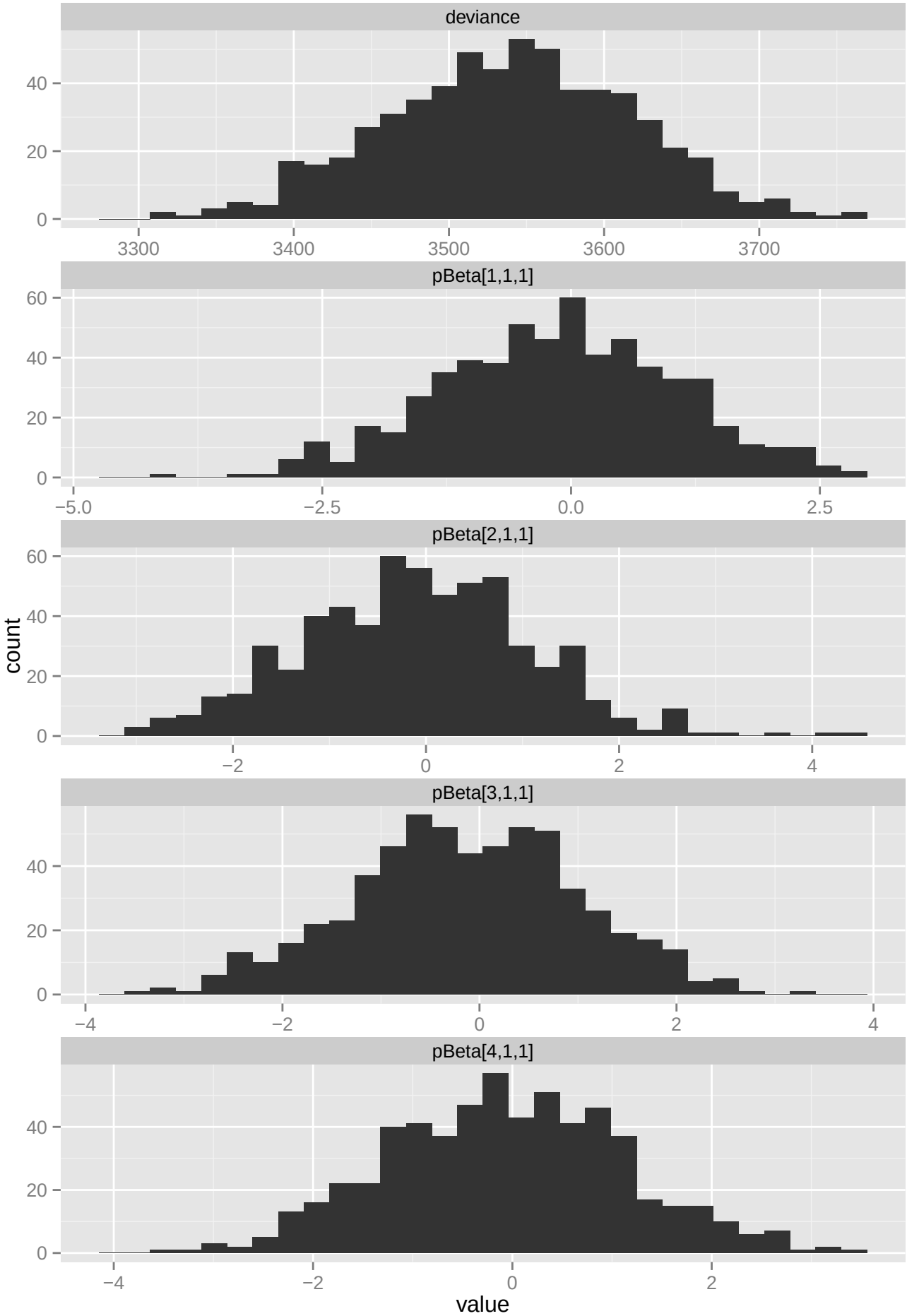
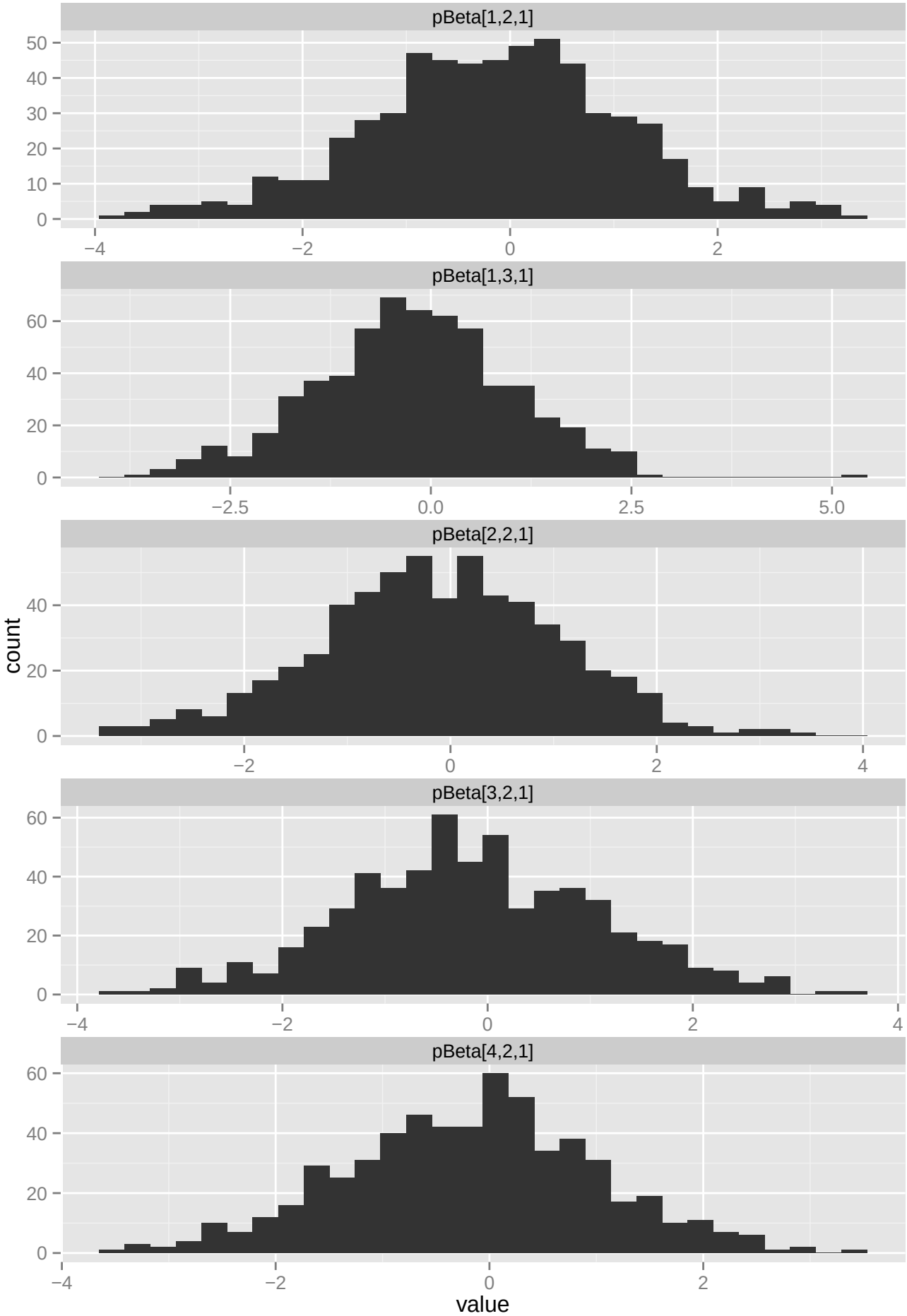
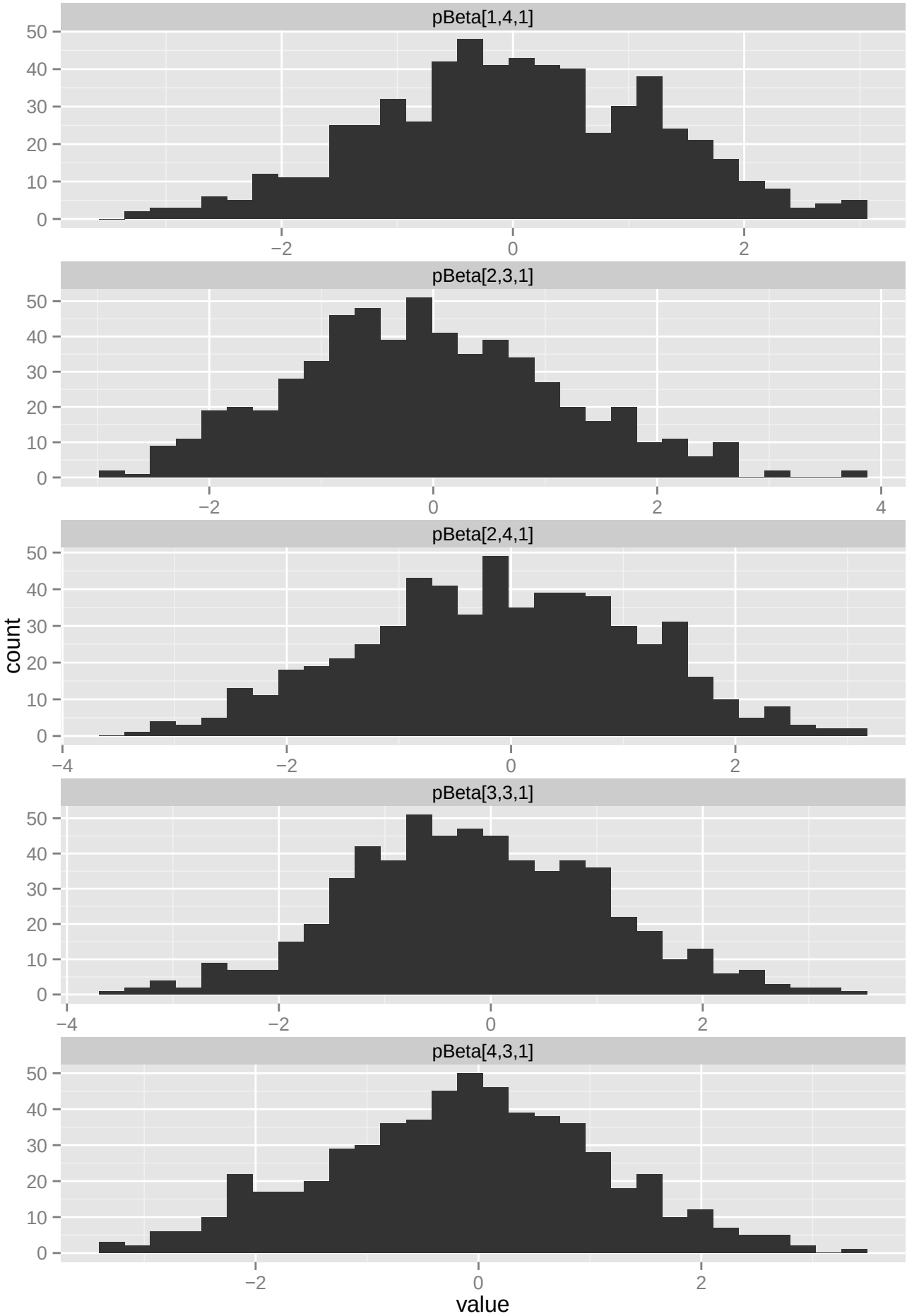
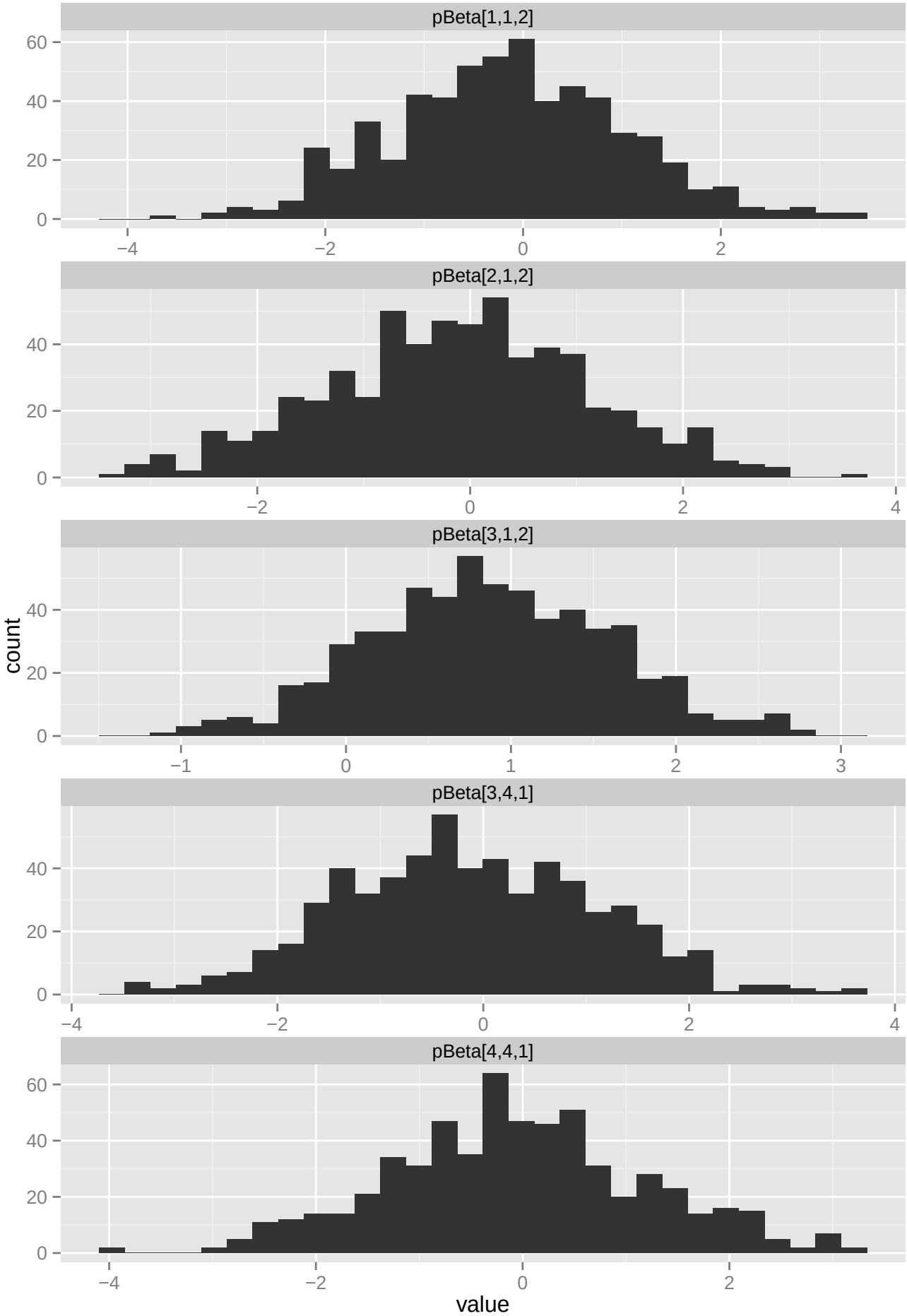

deviance
pBeta[1,1,1]
pBeta[2,1,1]
pBeta[3,1,1]
pBeta[4,1,1]
count
value


pBeta[1,2,1]
pBeta[1,3,1]
pBeta[2,2,1]
pBeta[3,2,1]
pBeta[4,2,1]
count
value


pBeta[1,4,1]
pBeta[2,3,1]
pBeta[2,4,1]
pBeta[3,3,1]
pBeta[4,3,1]
count
value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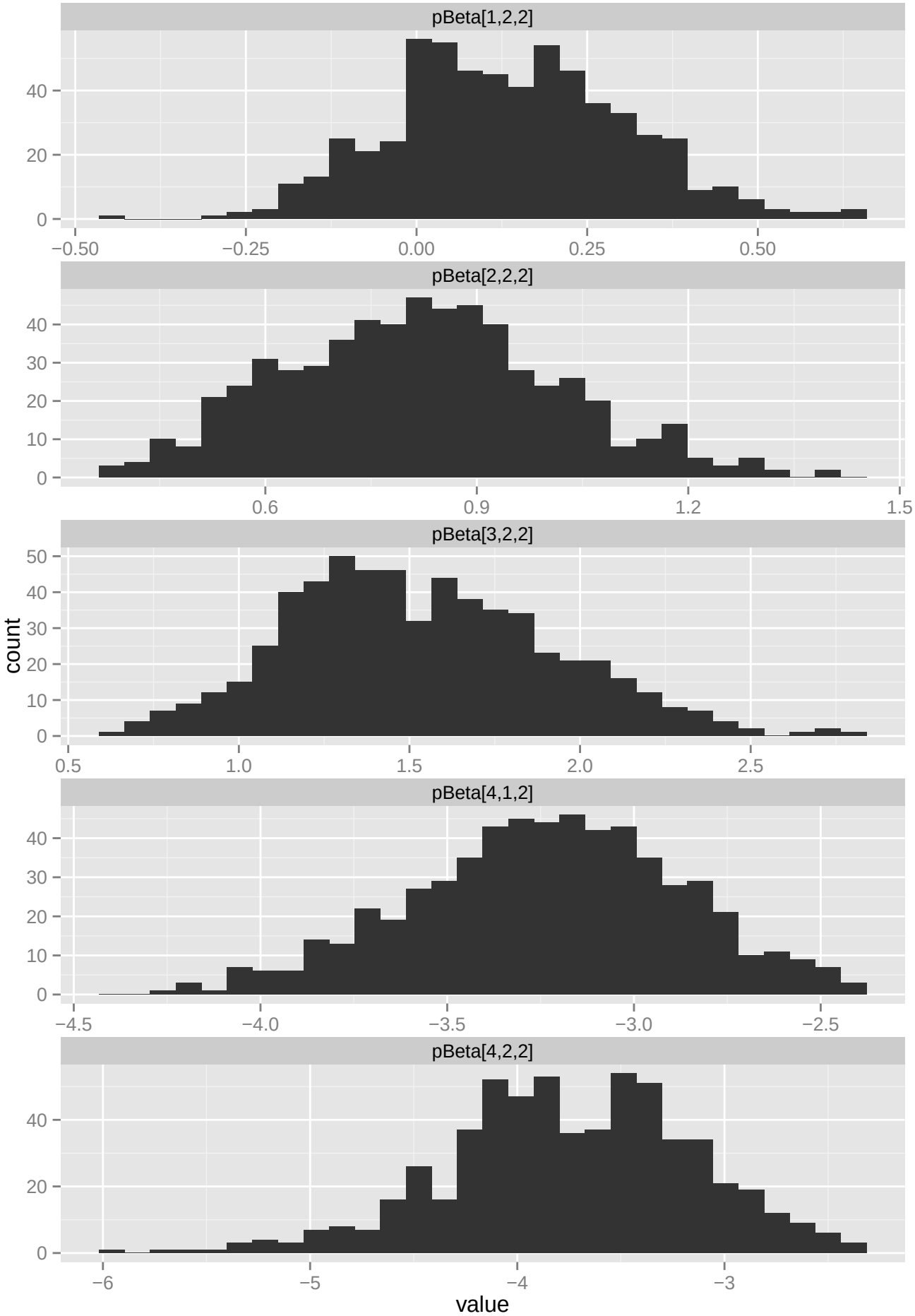
pBeta[2,1,2]
pBeta[3,1,2]
pBeta[3,4,1]
pBeta[4,4,1]
count
value


pBeta[1,2,2]
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pBeta[3,2,2]
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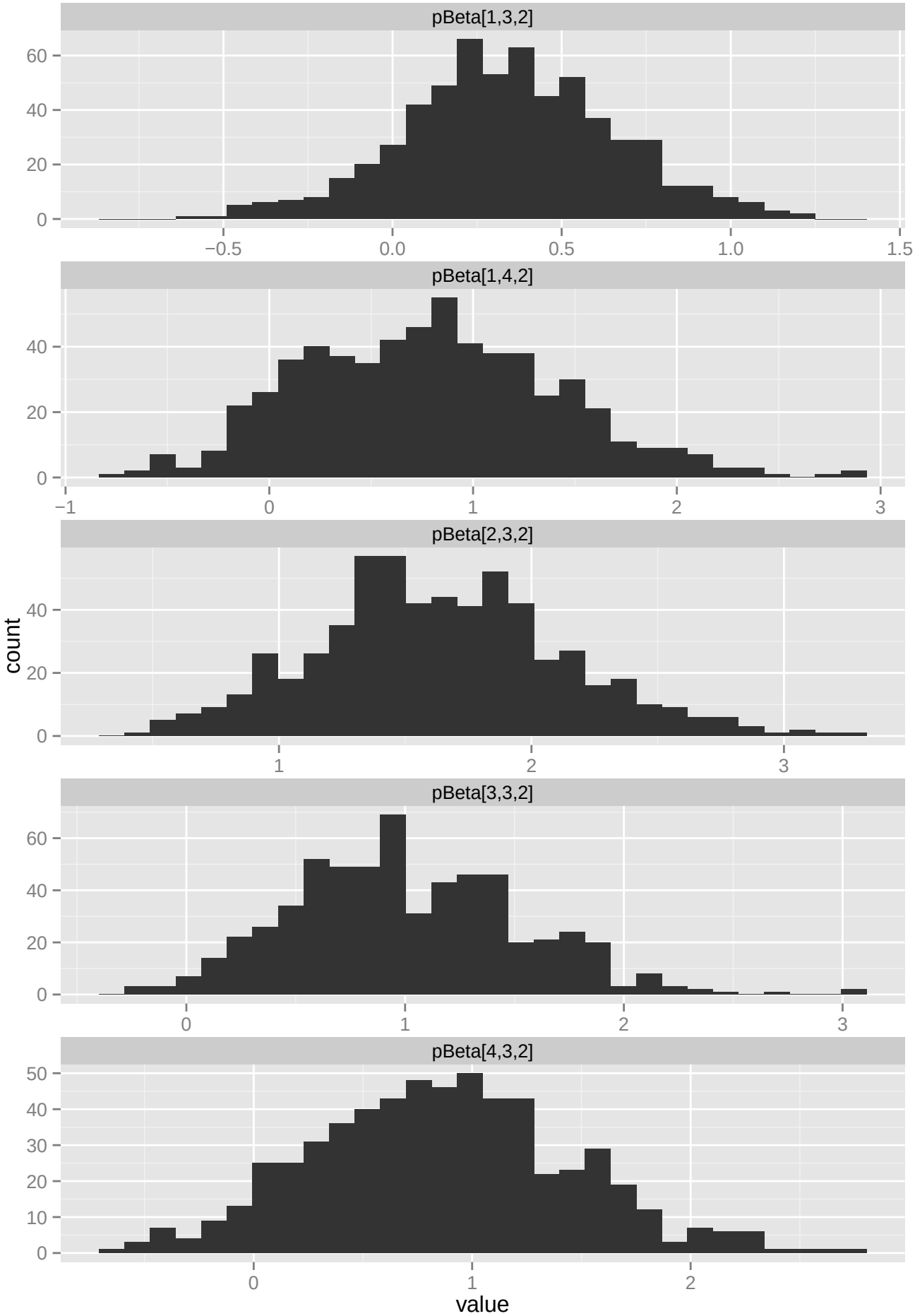
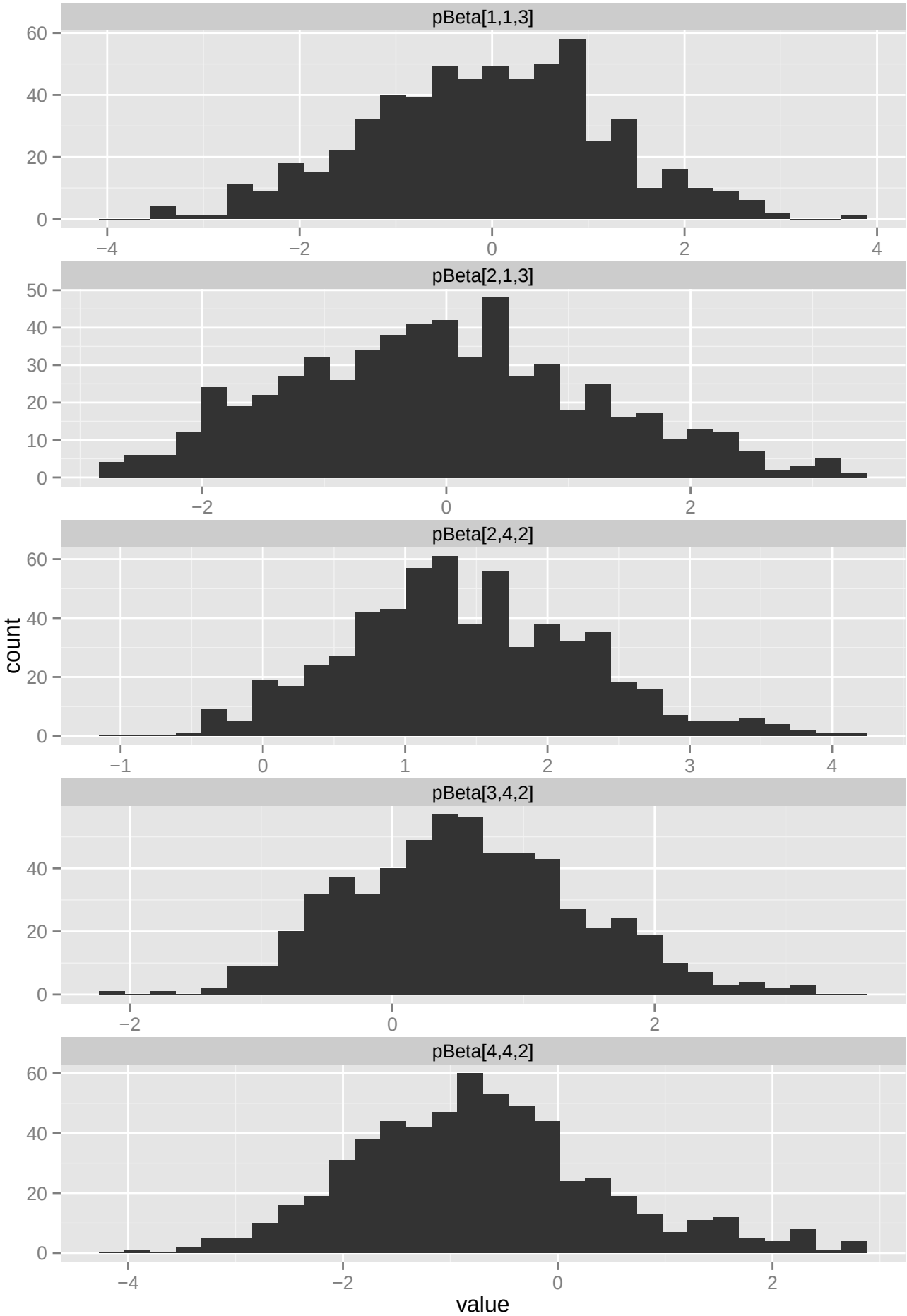
count
value


pBeta[1,3,2]
pBeta[1,4,2]
pBeta[2,3,2]
pBeta[3,3,2]
pBeta[4,3,2]
count
value


pBeta[1,1,3]
pBeta[2,1,3]
pBeta[2,4,2]
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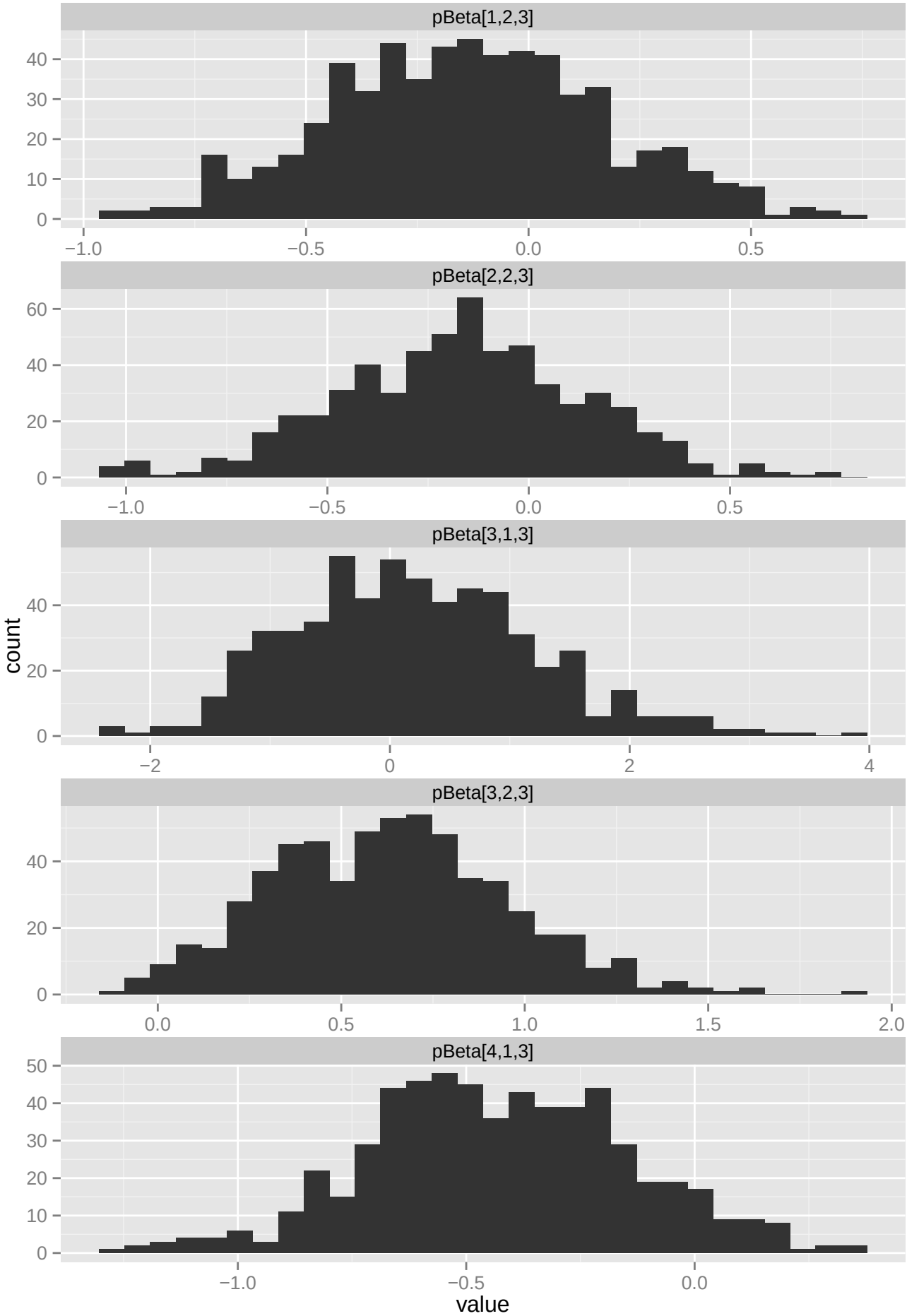
pBeta[4,4,2]
count
value


pBeta[1,2,3]
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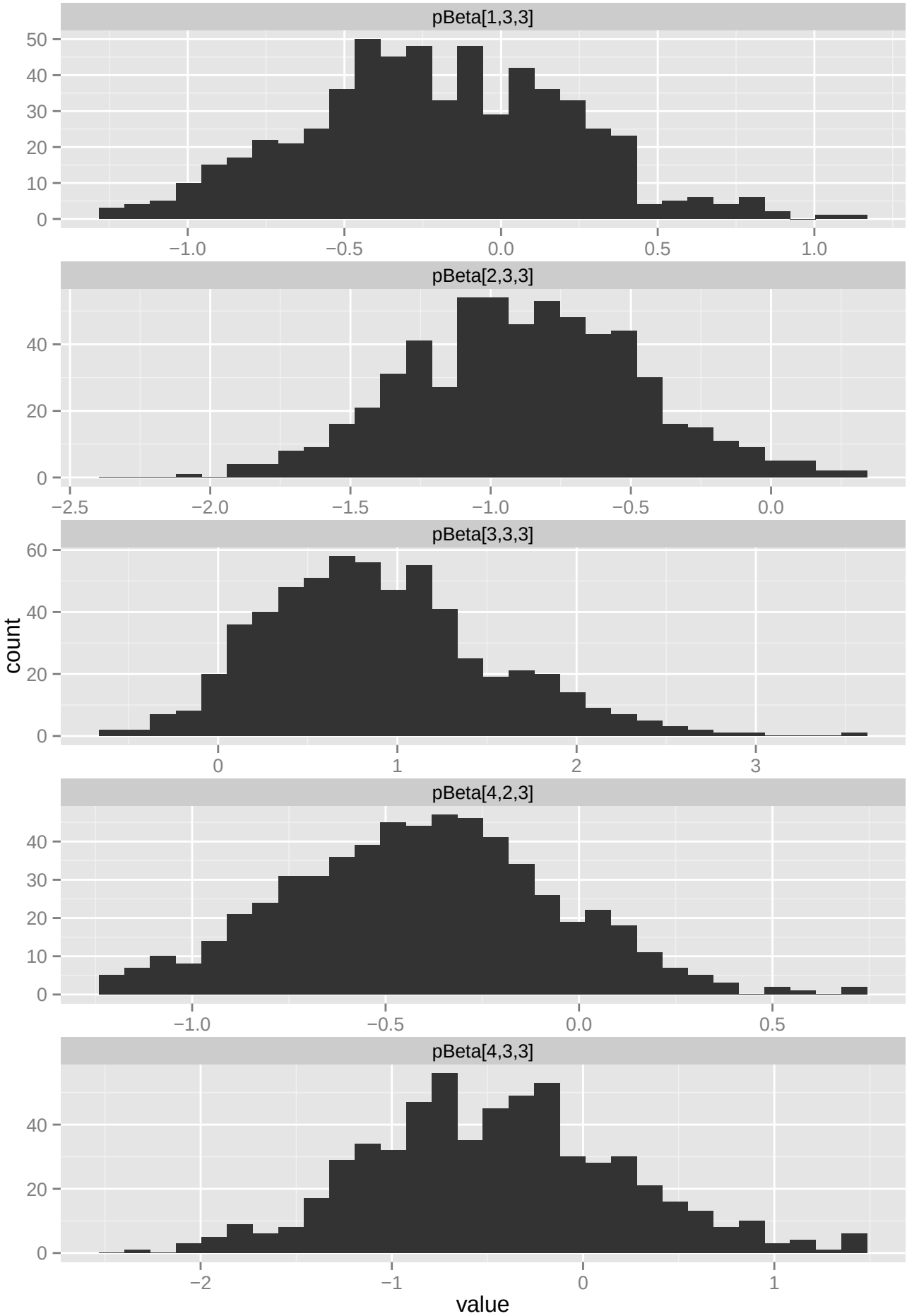
pBeta[3,1,3]
pBeta[3,2,3]
pBeta[4,1,3]
count
value


pBeta[1,3,3]
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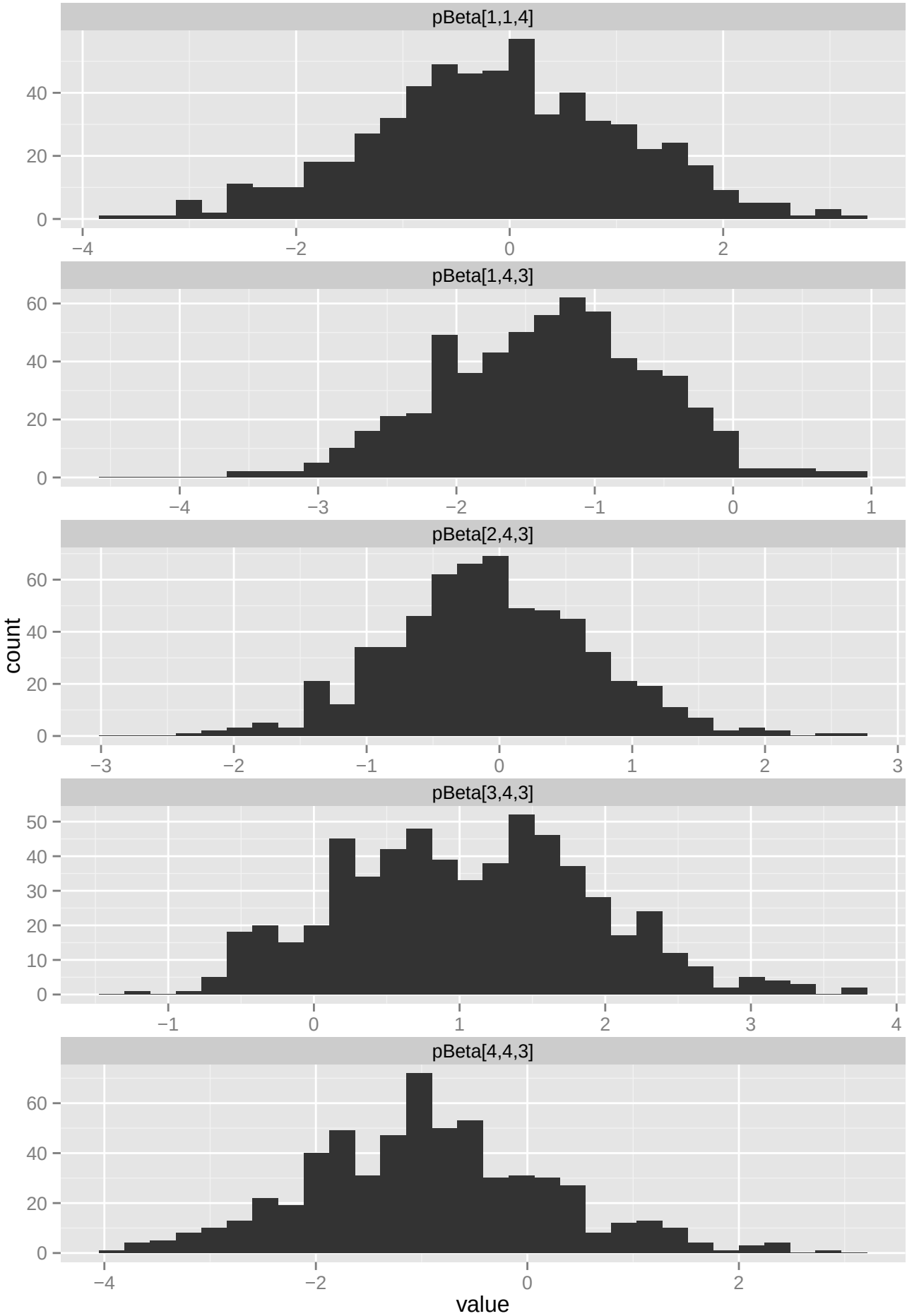
pBeta[3,3,3]
pBeta[4,2,3]
pBeta[4,3,3]
count
value


pBeta[1,1,4]
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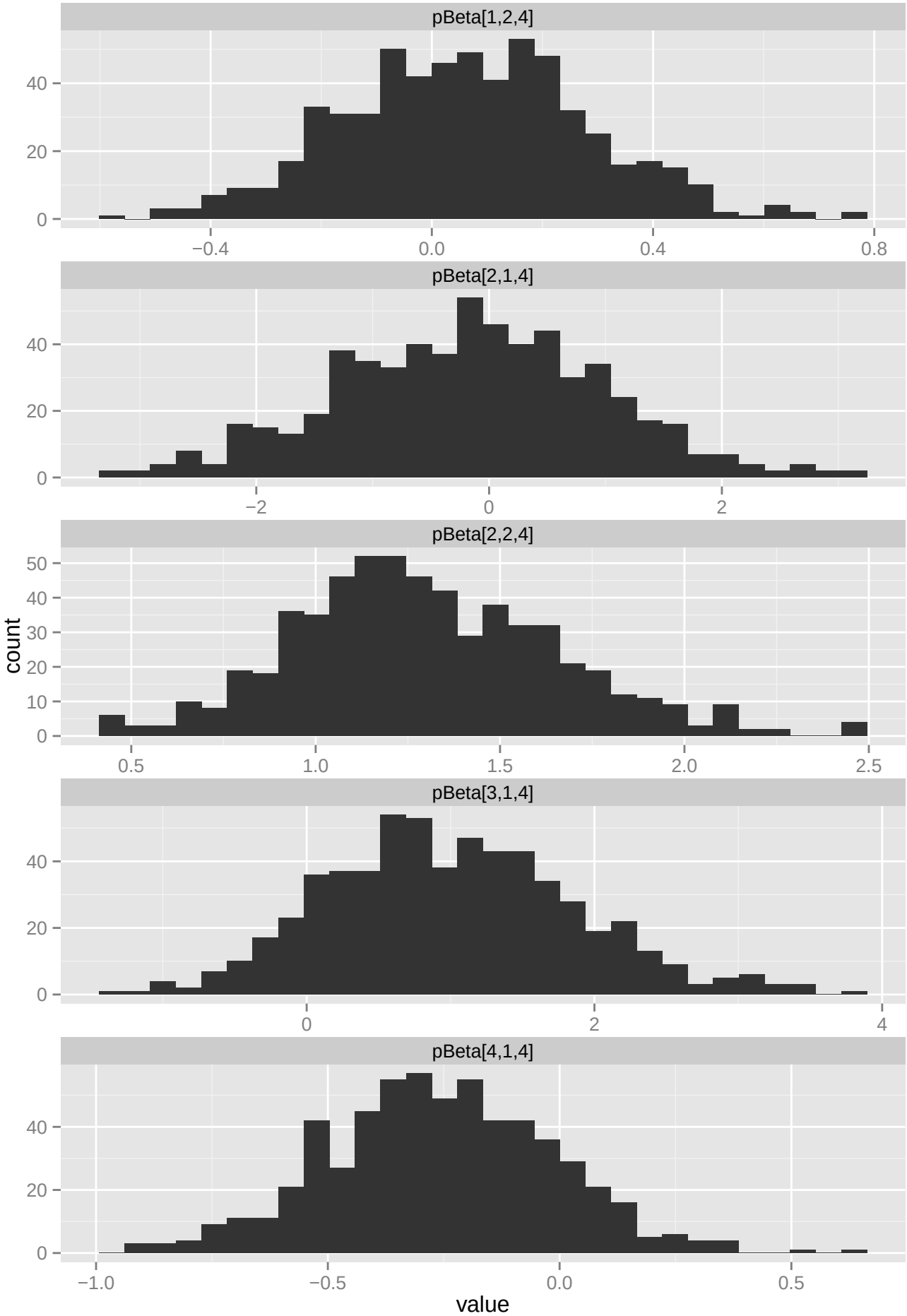
pBeta[2,4,3]
pBeta[3,4,3]
pBeta[4,4,3]
count
value


pBeta[1,2,4]
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pBeta[2,2,4]
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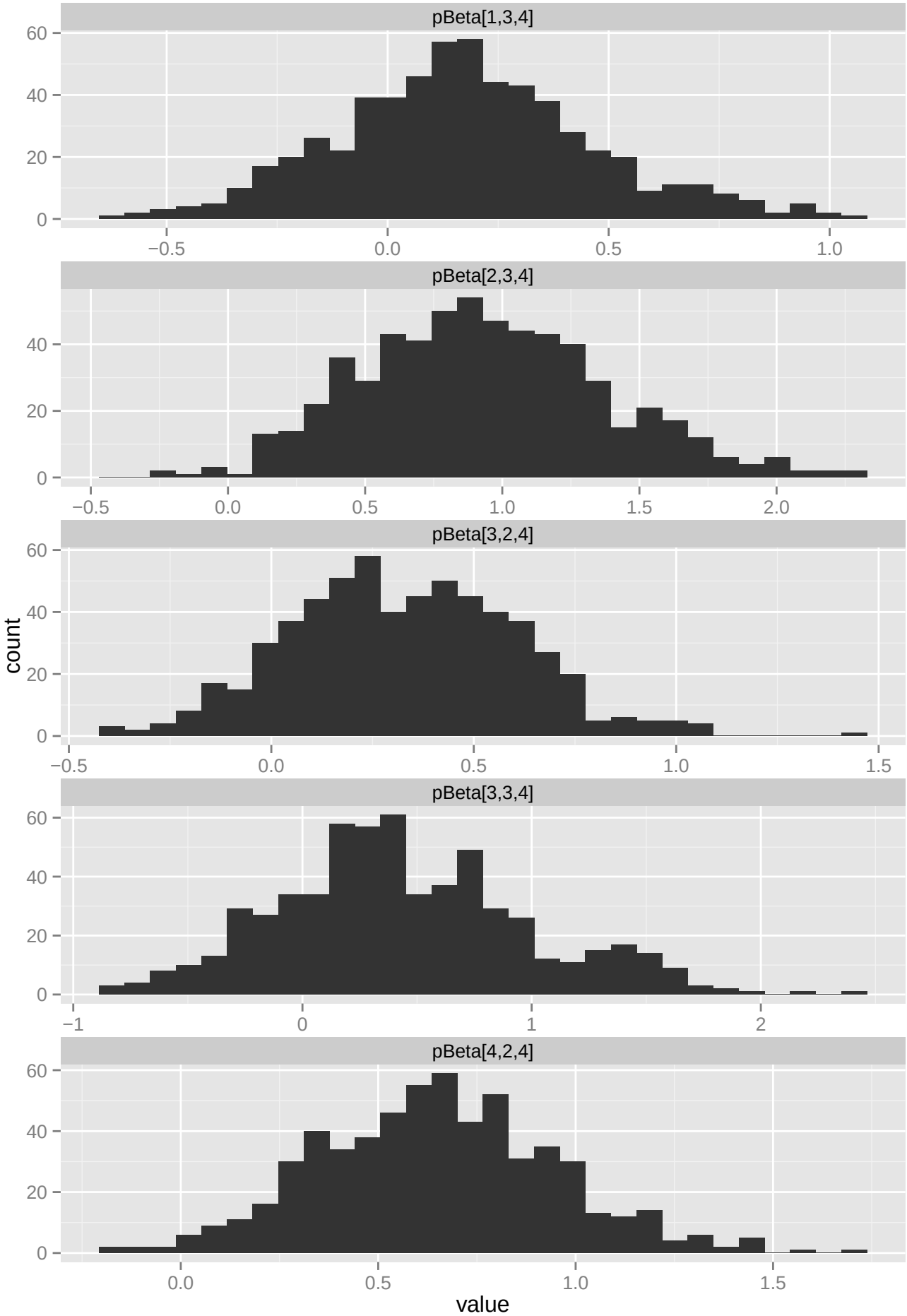
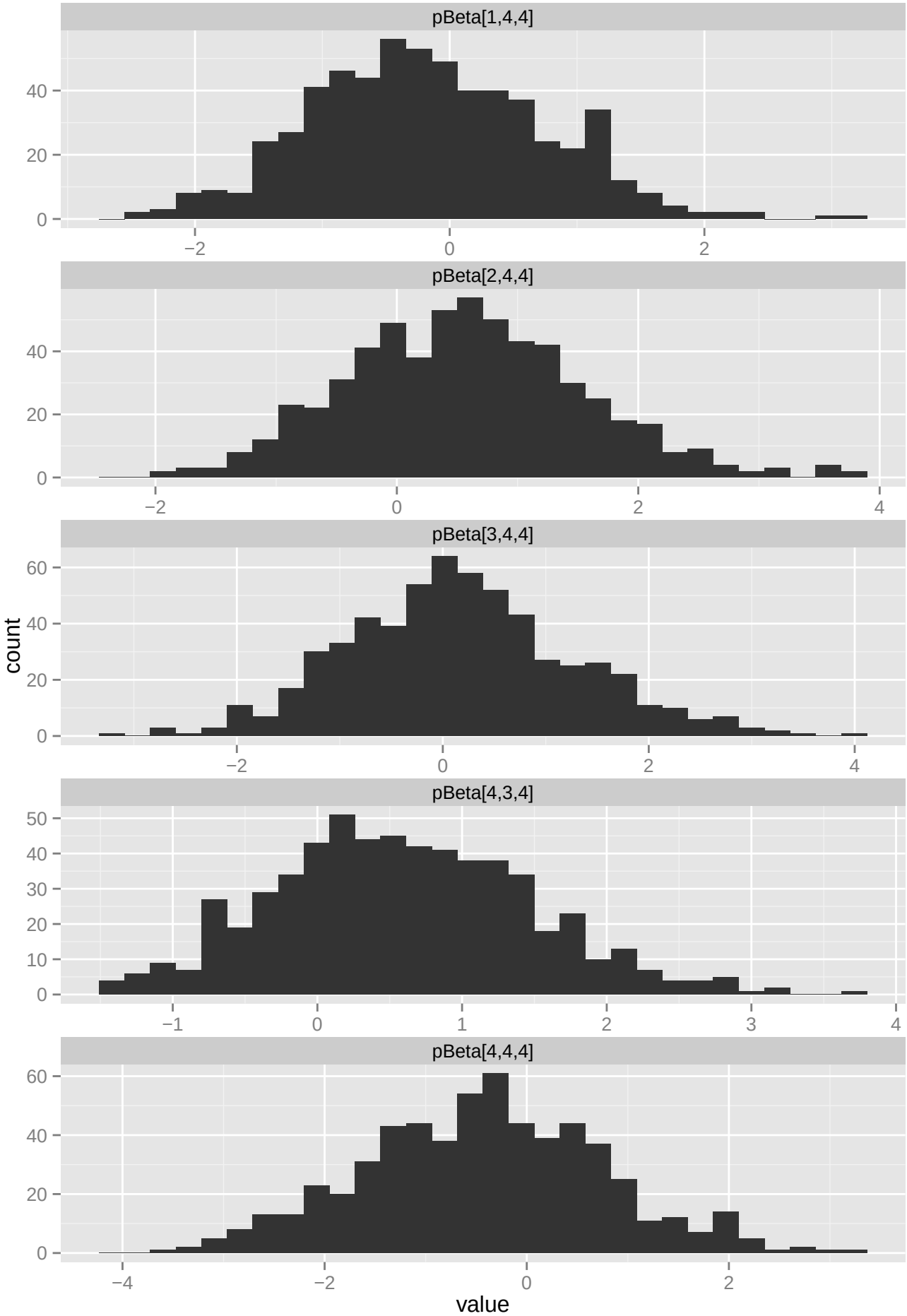
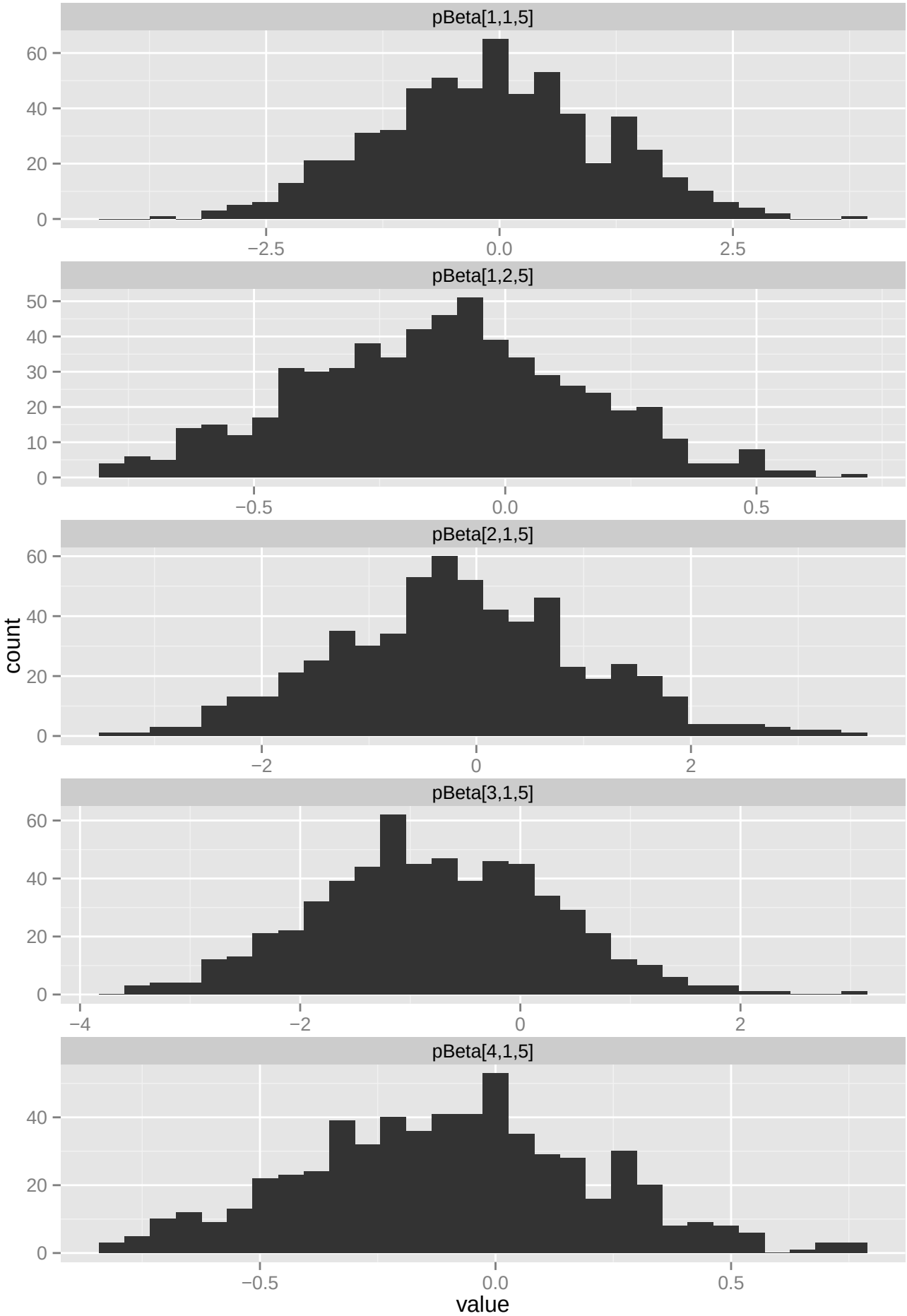
pBeta[4,1,4]
count
value


pBeta[1,3,4]
pBeta[2,3,4]
pBeta[3,2,4]
pBeta[3,3,4]
pBeta[4,2,4]
count
value


pBeta[1,4,4]
pBeta[2,4,4]
pBeta[3,4,4]
pBeta[4,3,4]
pBeta[4,4,4]
count
value


pBeta[1,1,5]
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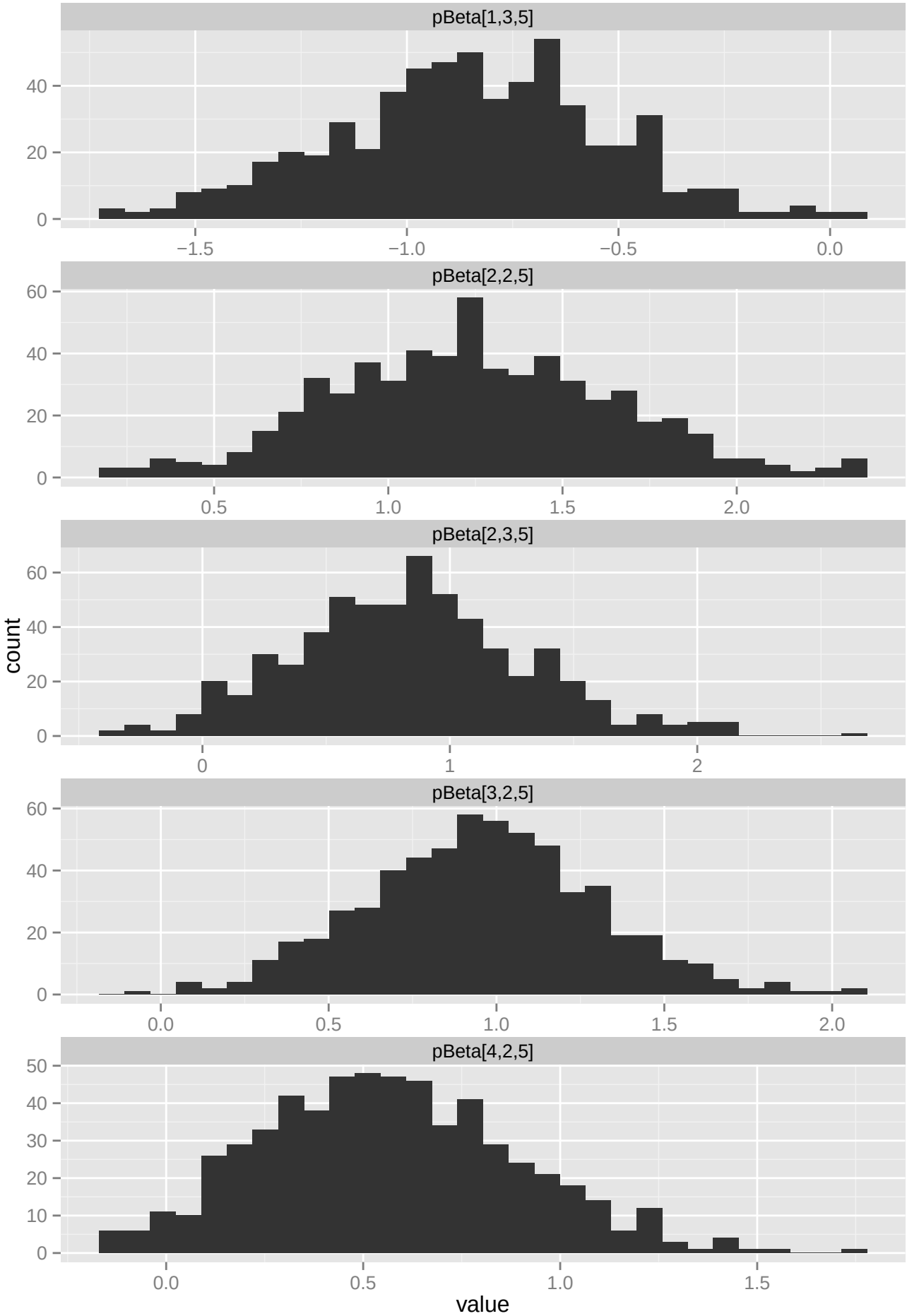
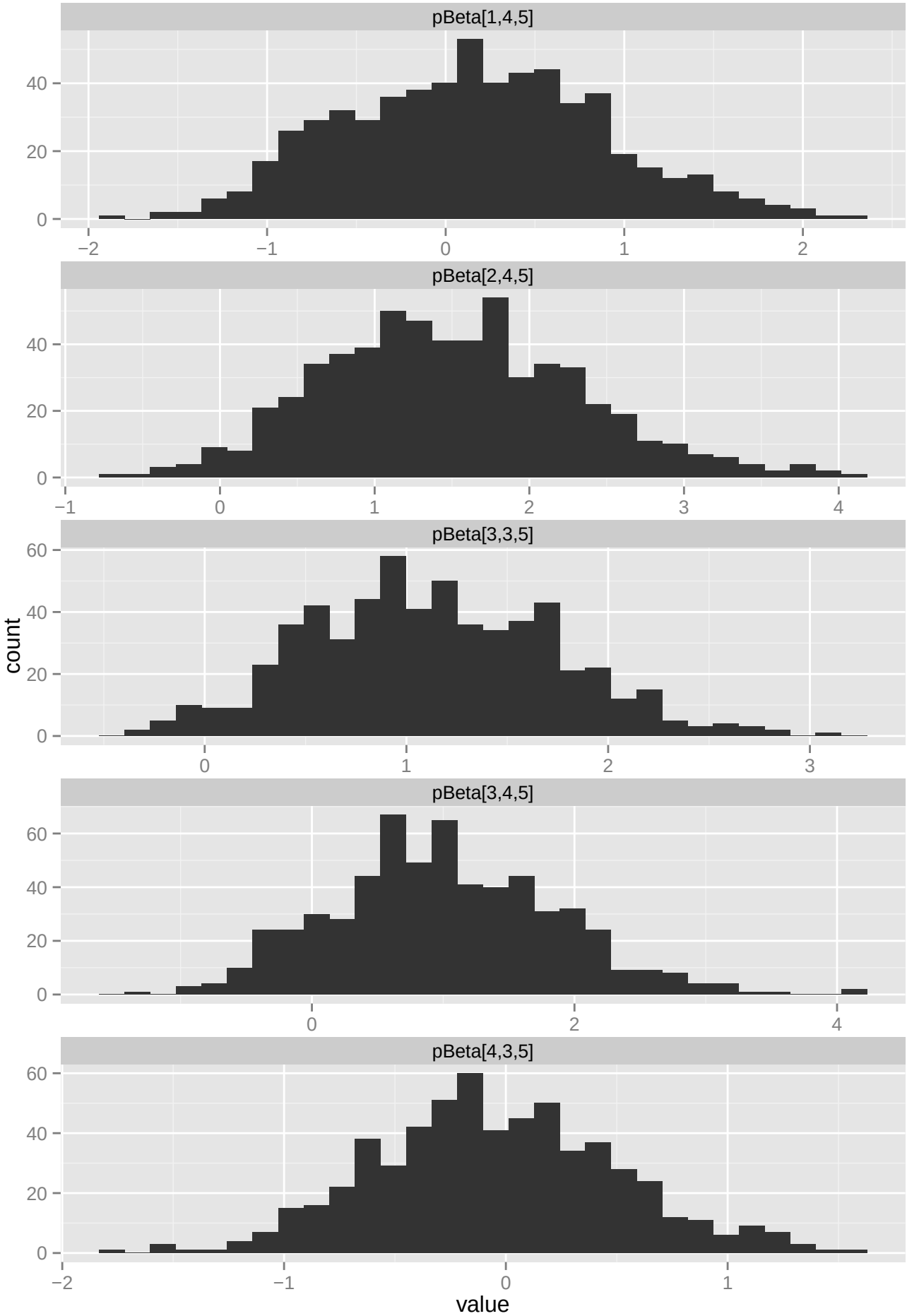
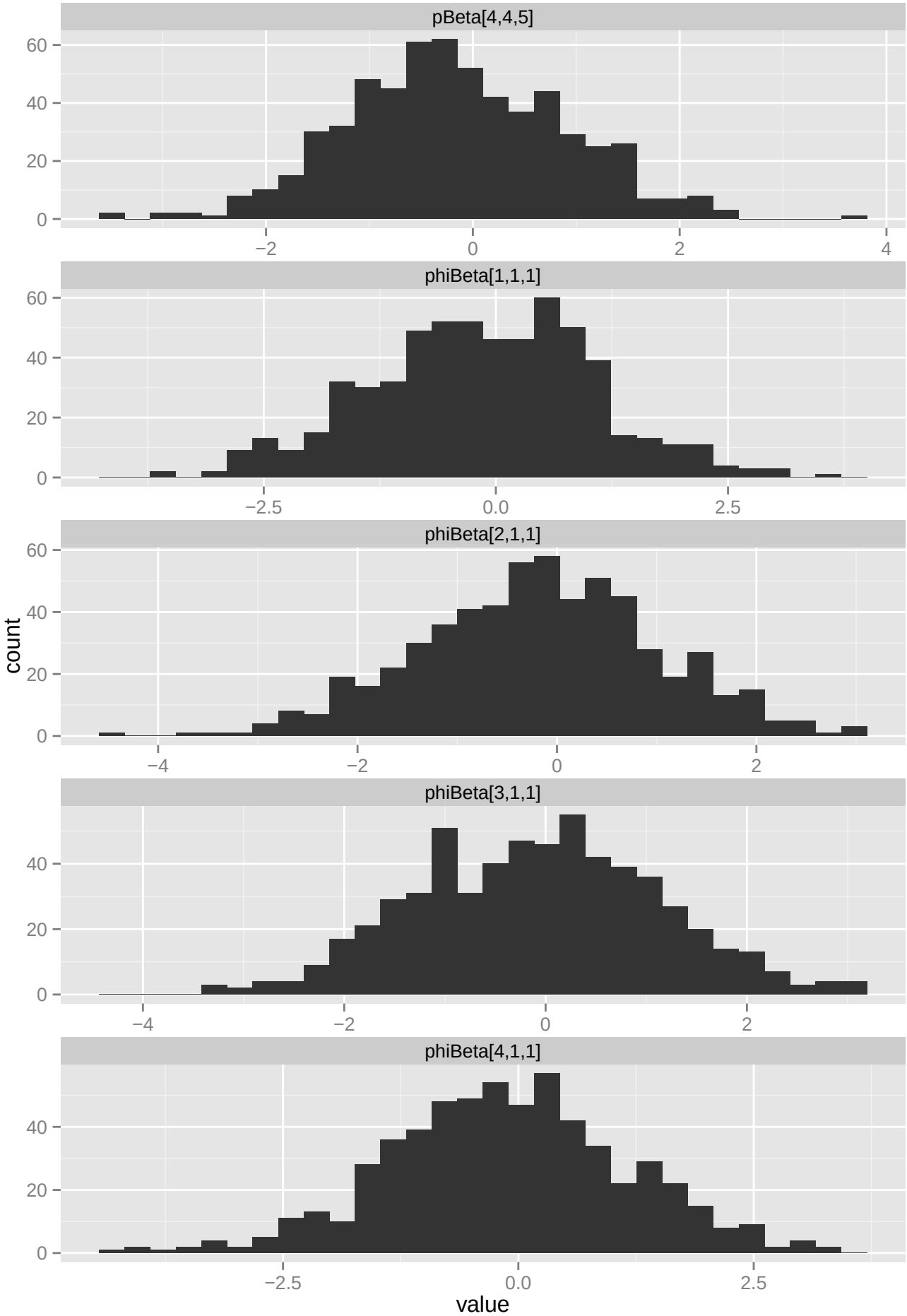
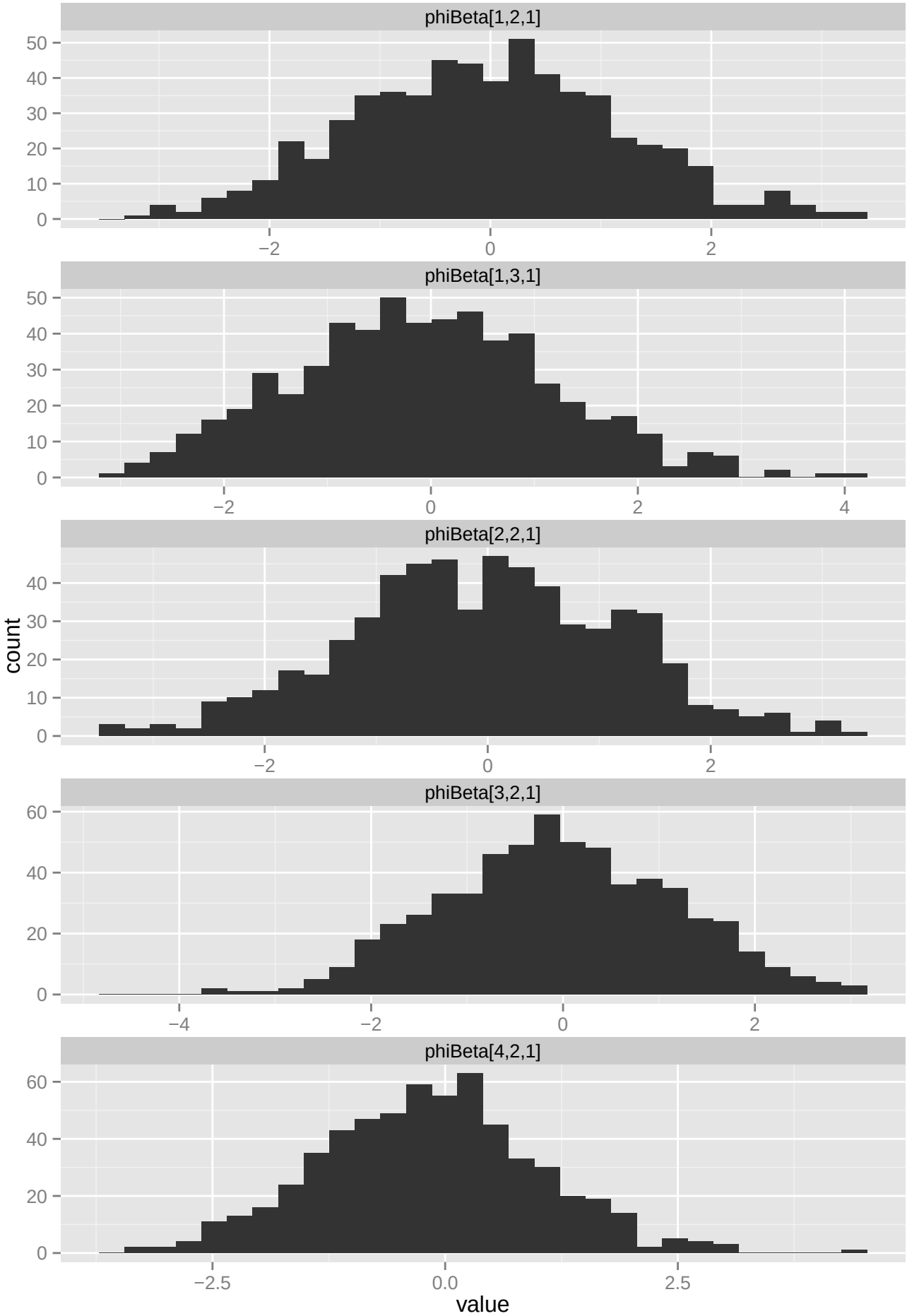
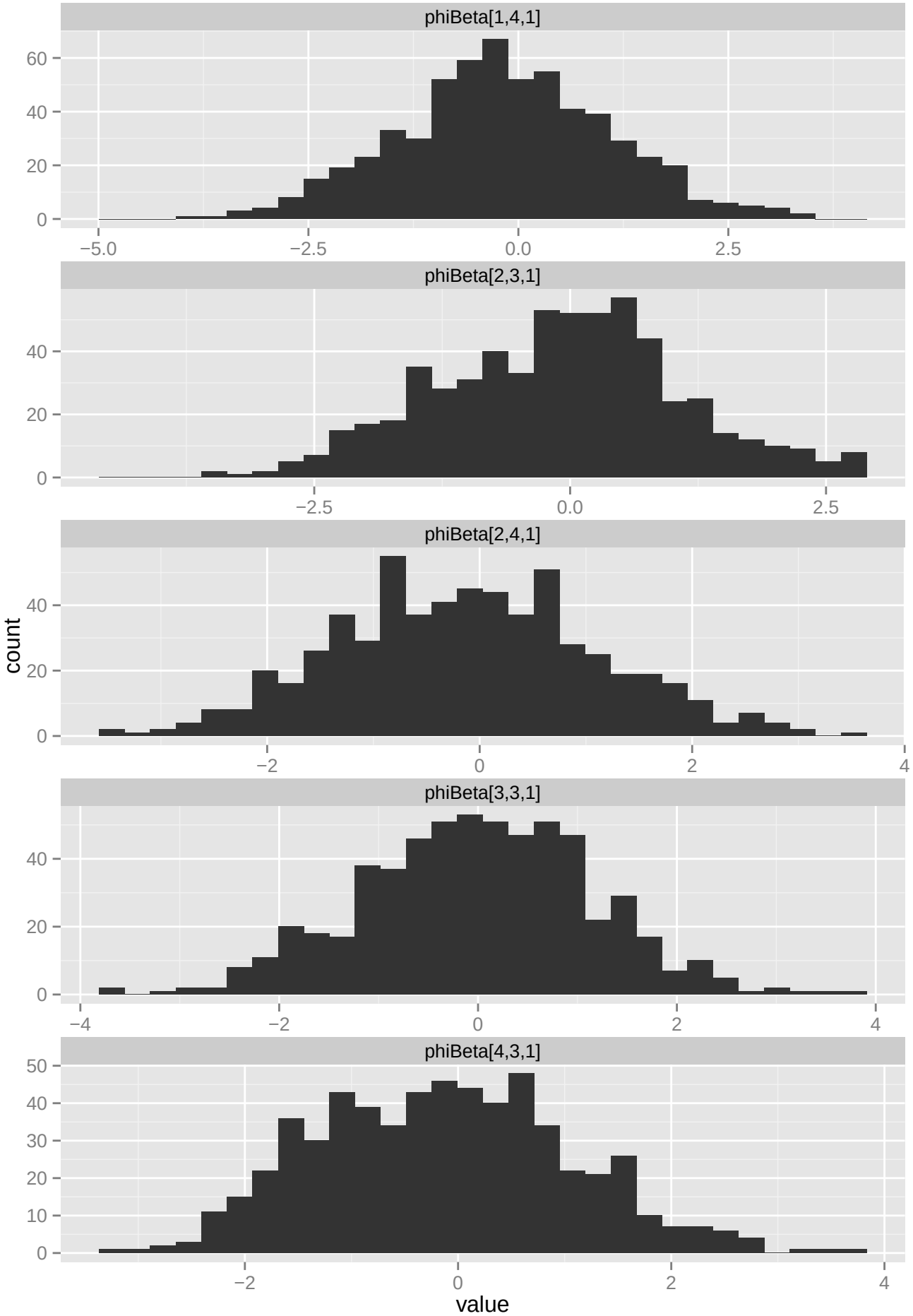
pBeta[2,1,5]
pBeta[3,1,5]
pBeta[4,1,5]
count
value

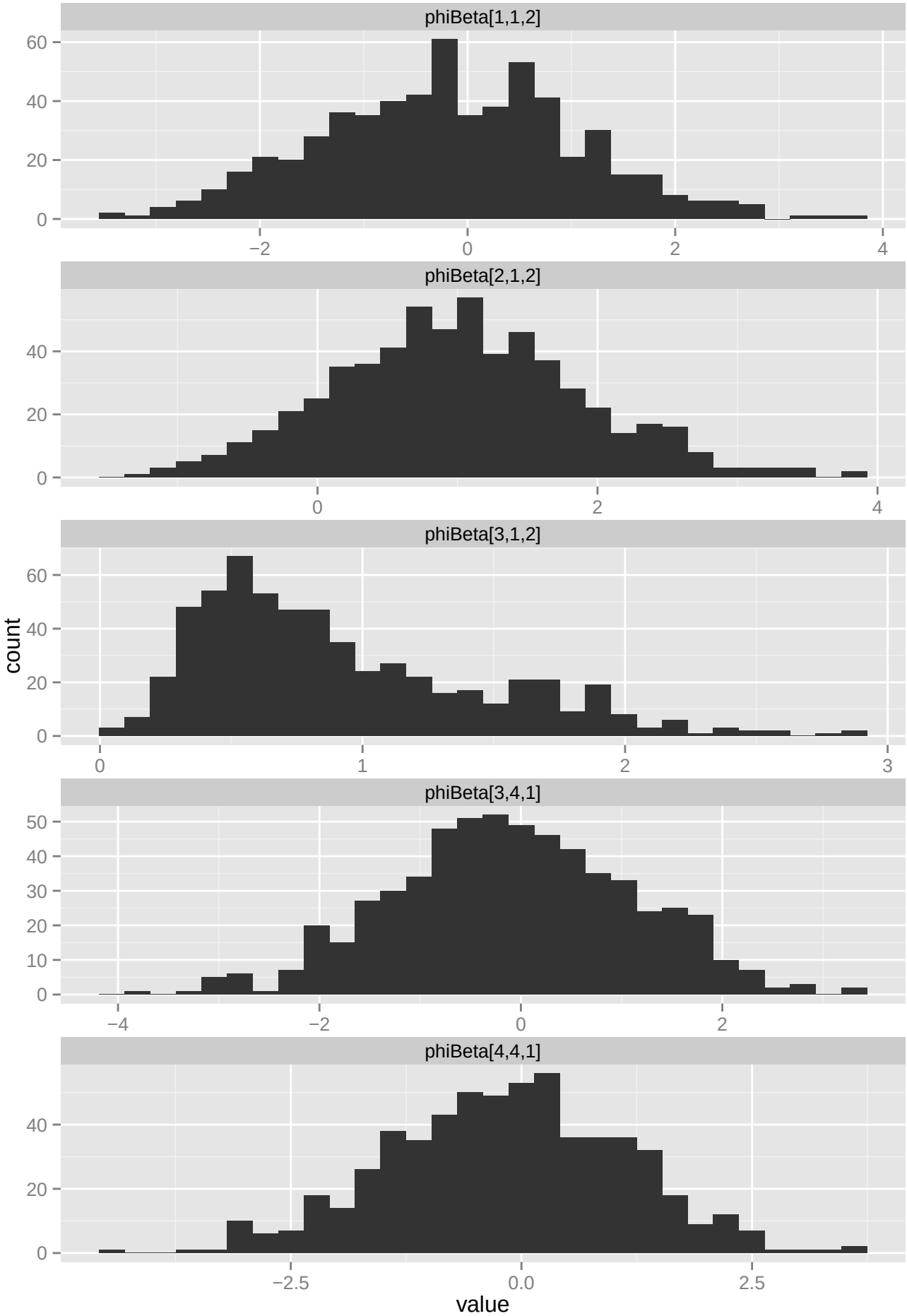

pBeta[1,3,5]
pBeta[2,2,5]
pBeta[2,3,5]
pBeta[3,2,5]
pBeta[4,2,5]
count
value


pBeta[1,4,5]
pBeta[2,4,5]
pBeta[3,3,5]
pBeta[3,4,5]
pBeta[4,3,5]
count
value


pBeta[4,4,5]
phiBeta[1,1,1]
phiBeta[2,1,1]
phiBeta[3,1,1]
phiBeta[4,1,1]
count
value


phiBeta[1,2,1]
phiBeta[1,3,1]
phiBeta[2,2,1]
phiBeta[3,2,1]
phiBeta[4,2,1]
count
value


phiBeta[1,4,1]
phiBeta[2,3,1]
phiBeta[2,4,1]
phiBeta[3,3,1]
phiBeta[4,3,1]
count
value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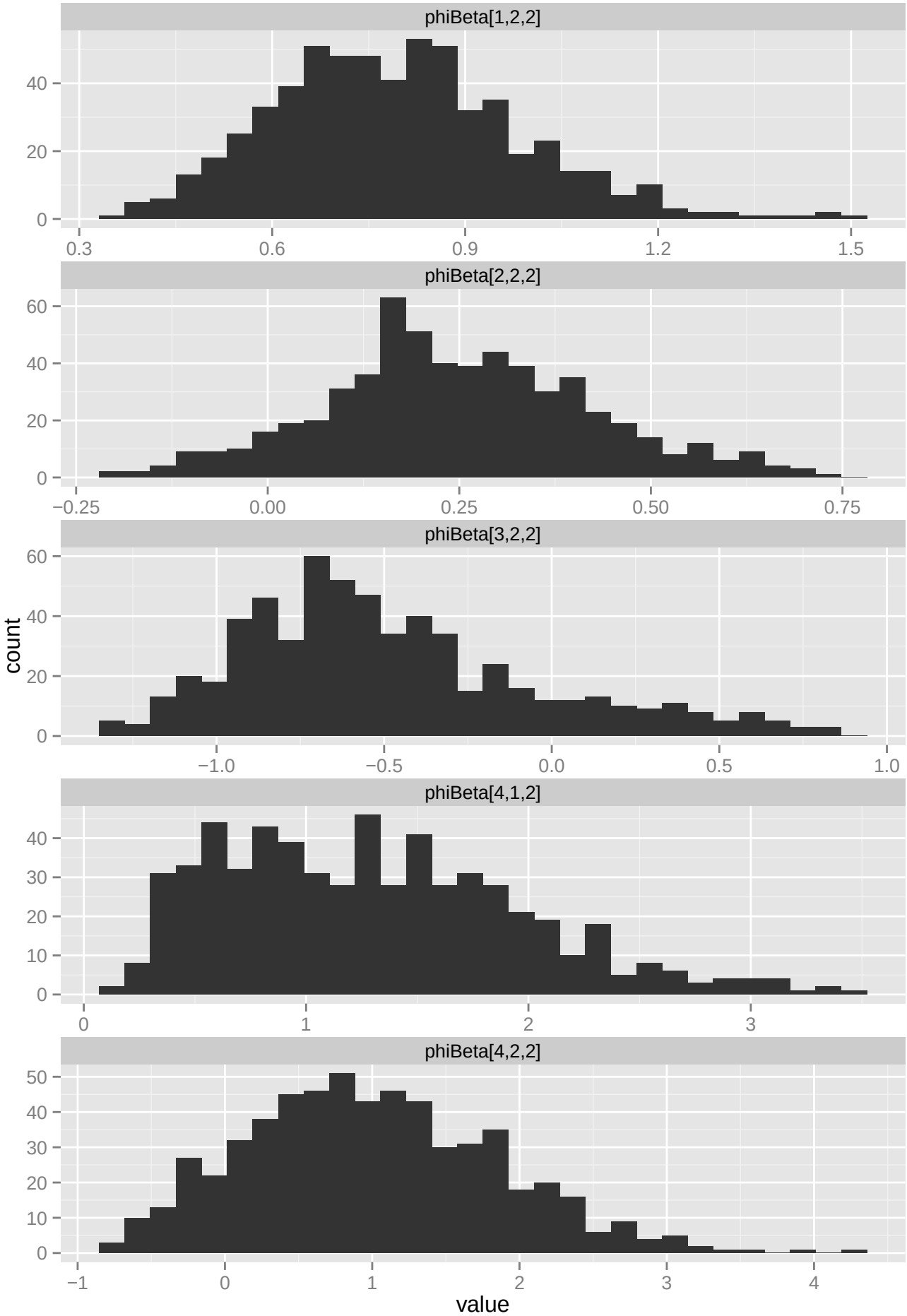
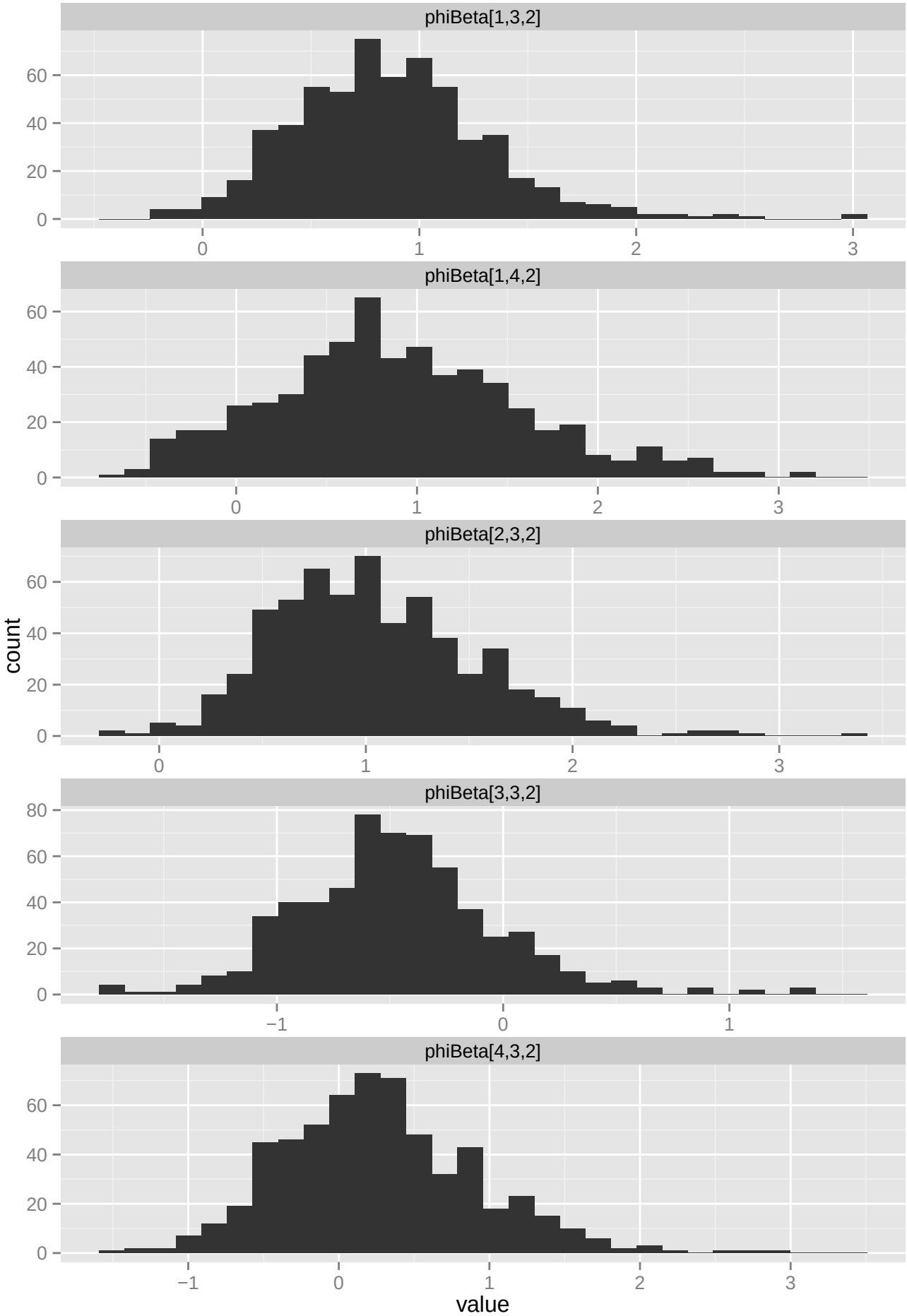
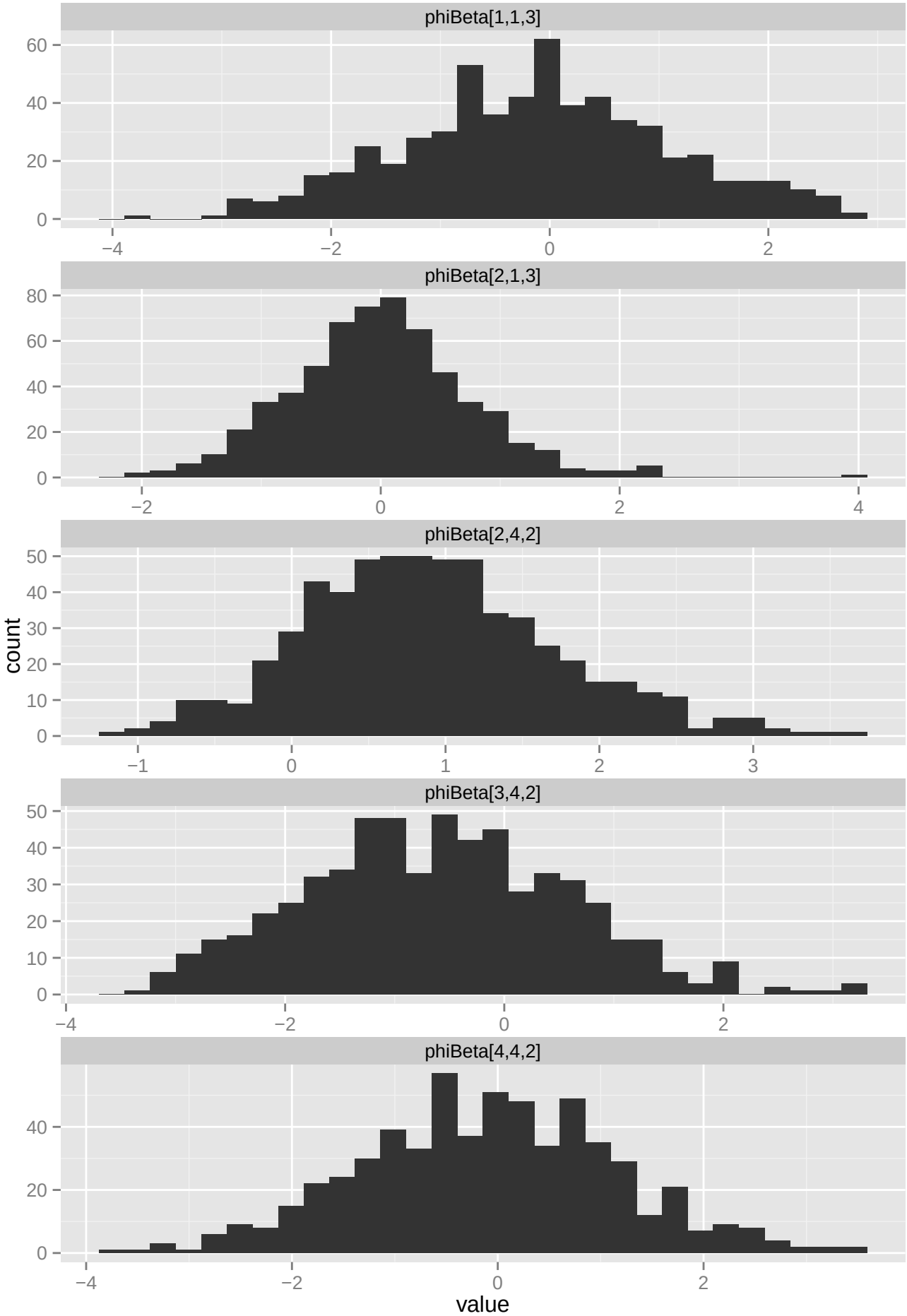
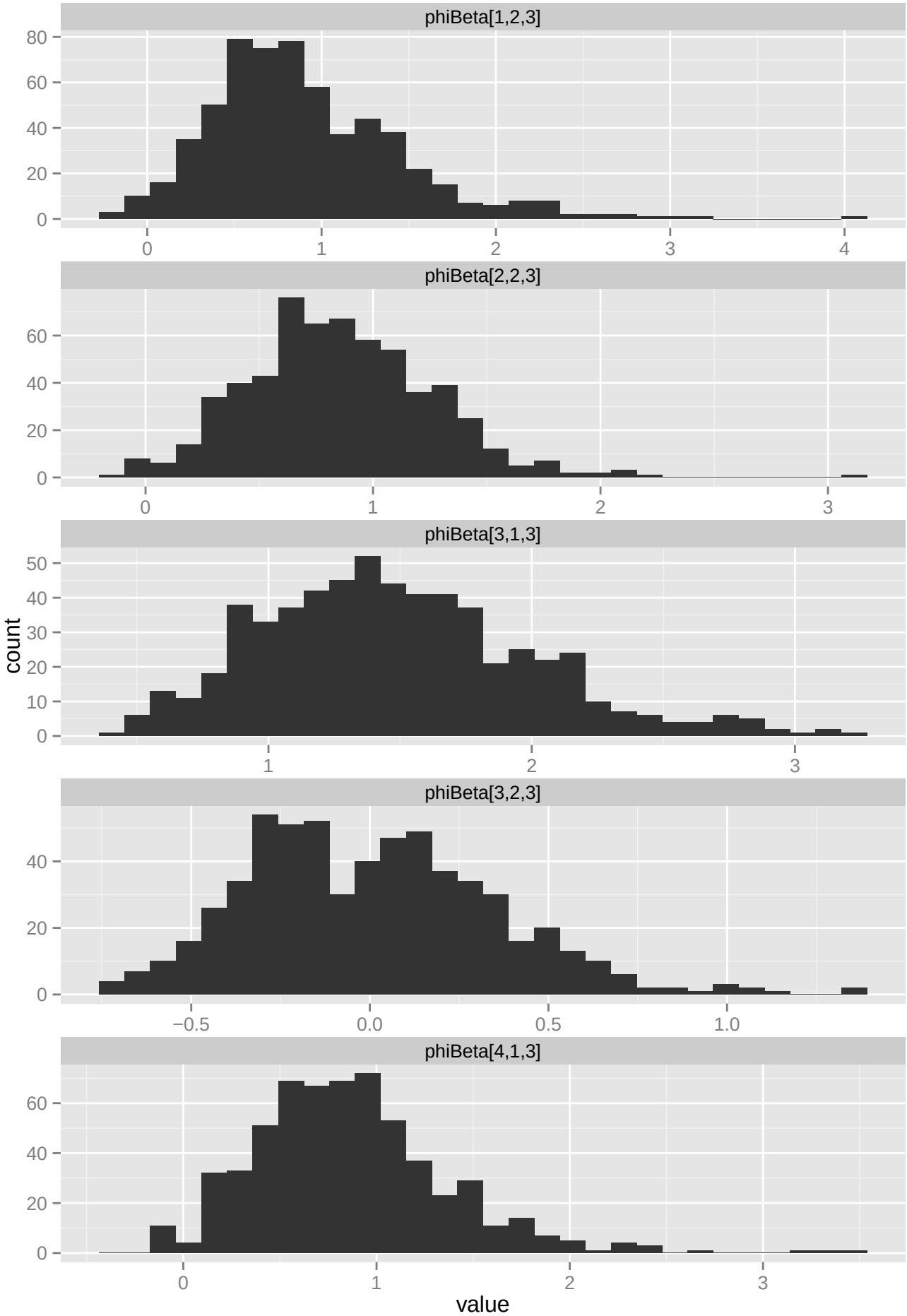
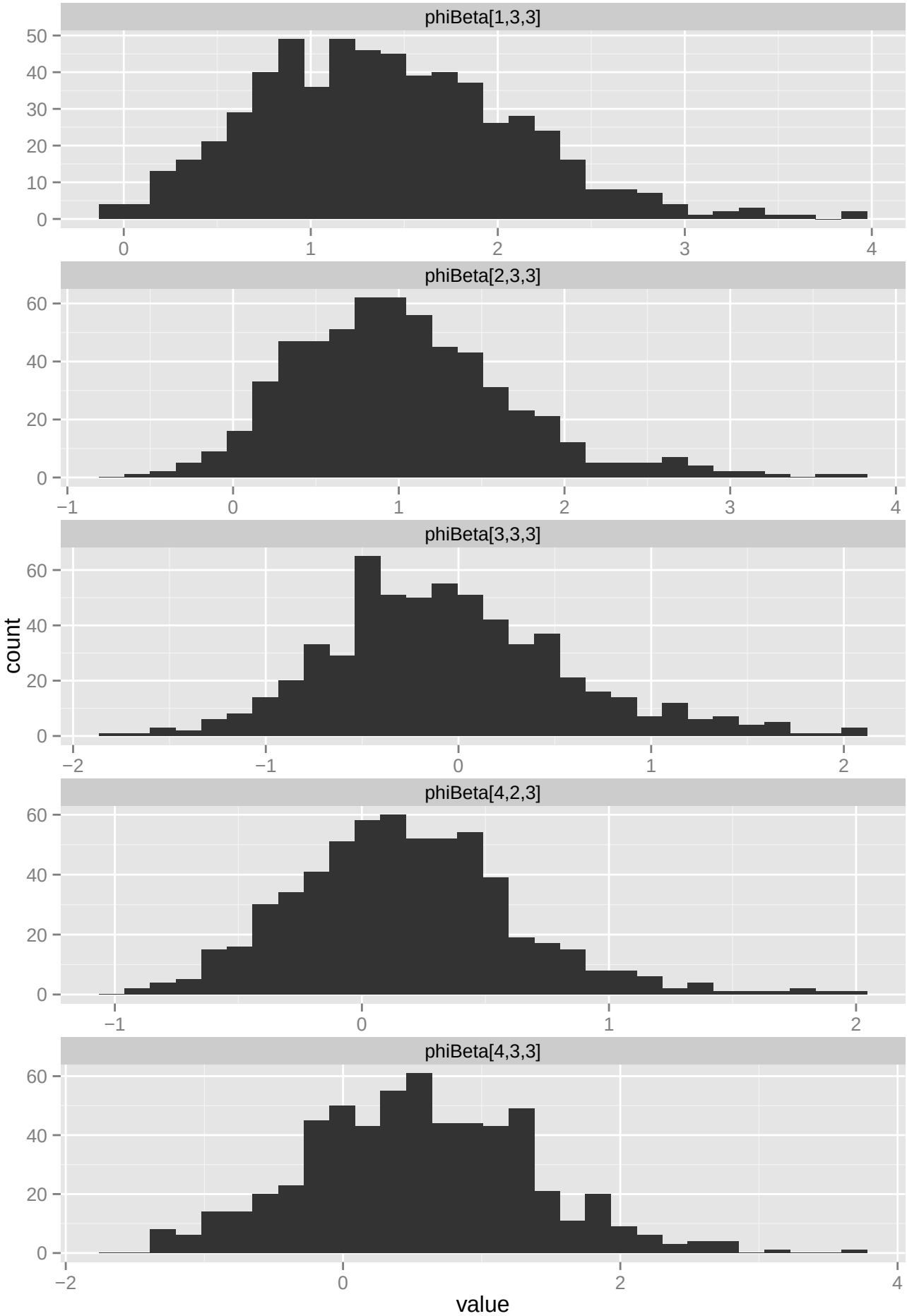
phiBeta[2,1,2]
phiBeta[3,1,2]
phiBeta[3,4,1]
phiBeta[4,4,1]
count
value

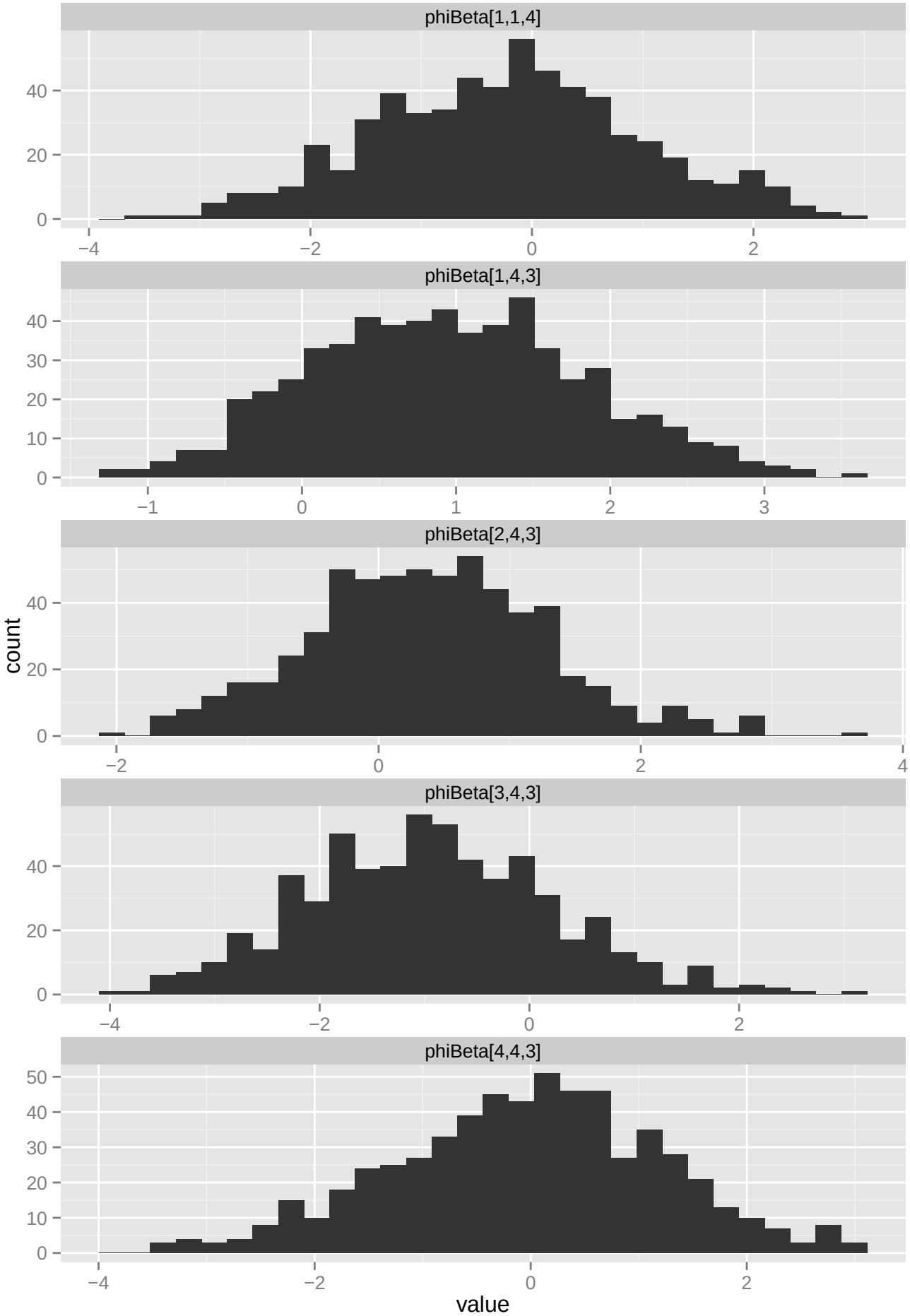

phiBeta[1,2,2]
phiBeta[2,2,2]
phiBeta[3,2,2]
phiBeta[4,1,2]
phiBeta[4,2,2]
count
value


phiBeta[1,3,2]
phiBeta[1,4,2]
phiBeta[2,3,2]
phiBeta[3,3,2]
phiBeta[4,3,2]
count
value


phiBeta[1,1,3]
phiBeta[2,1,3]
phiBeta[2,4,2]
phiBeta[3,4,2]
phiBeta[4,4,2]
count
value


phiBeta[1,2,3]
phiBeta[2,2,3]
phiBeta[3,1,3]
phiBeta[3,2,3]
phiBeta[4,1,3]
count
value


phiBeta[1,3,3]
phiBeta[2,3,3]
phiBeta[3,3,3]
phiBeta[4,2,3]
phiBeta[4,3,3]
count
value


phiBeta[1,1,4]
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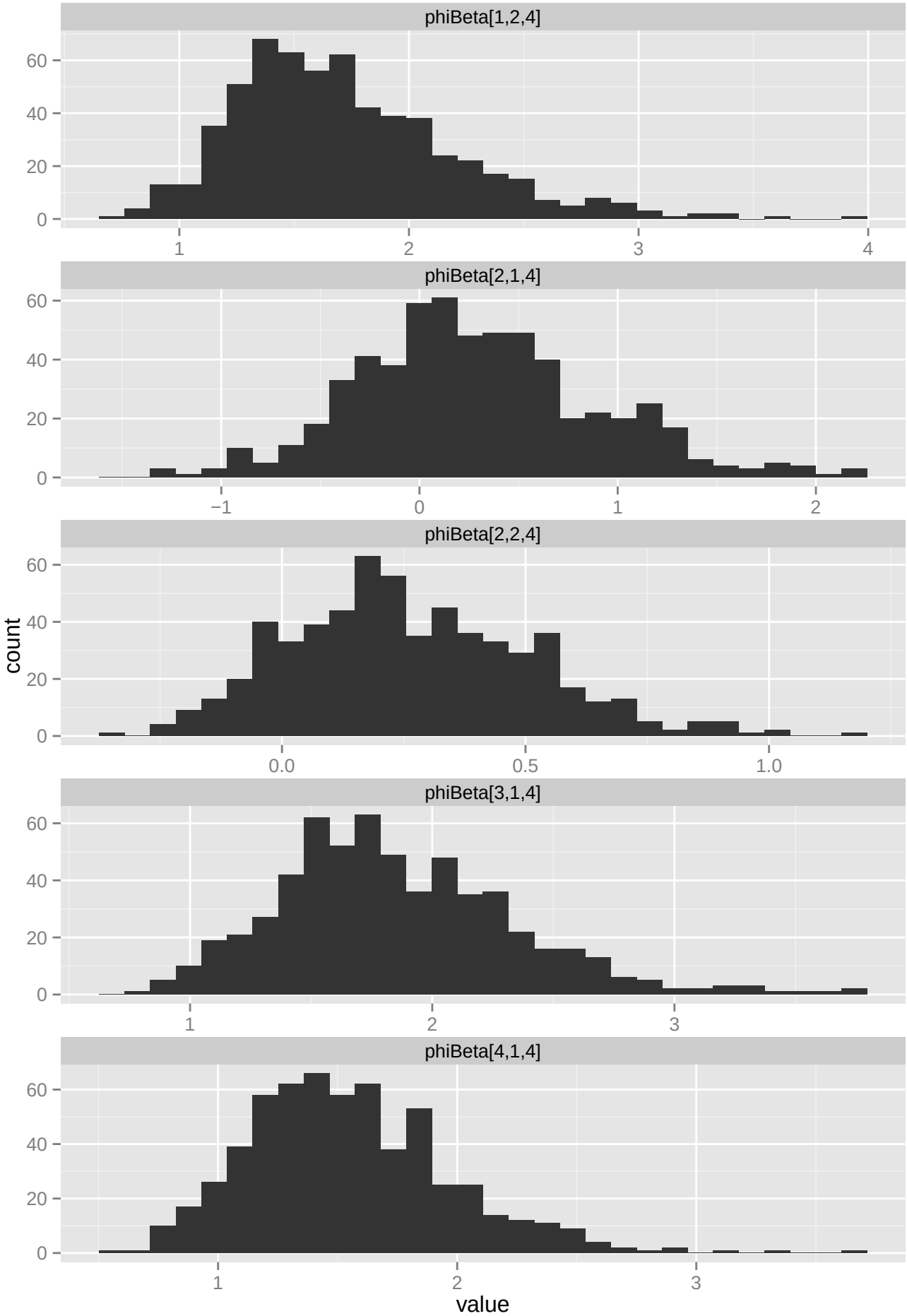
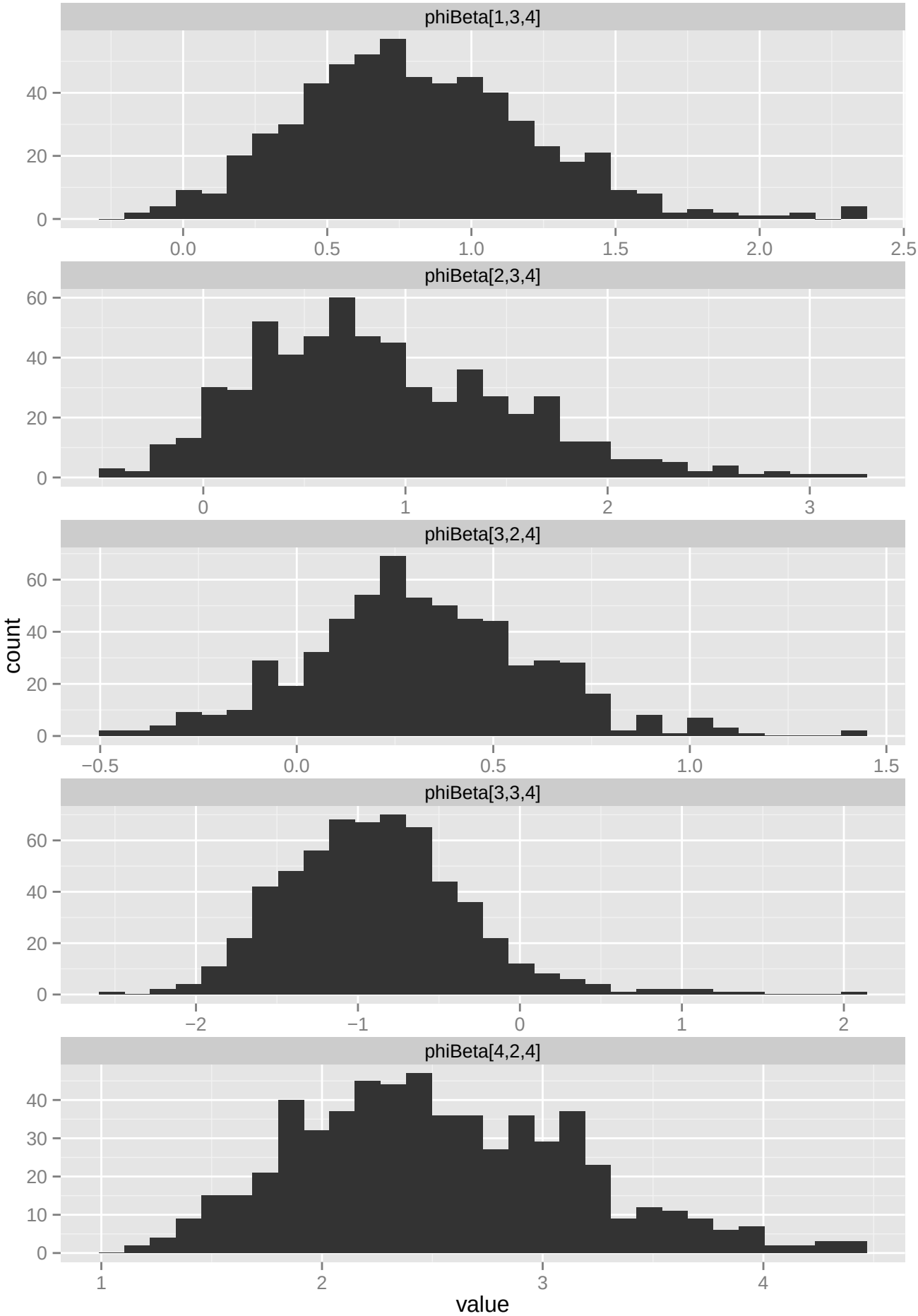
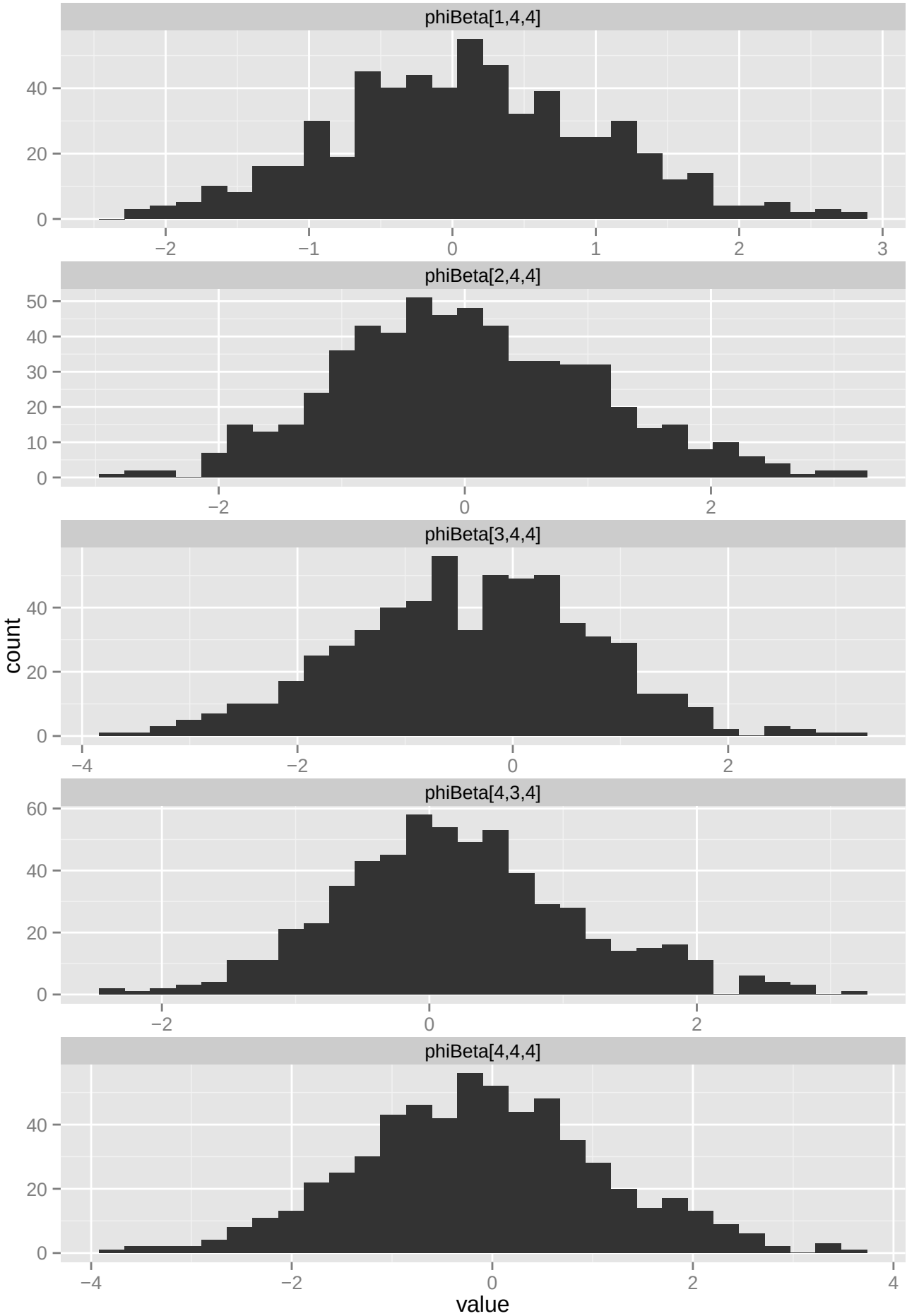
phiBeta[2,4,3]
phiBeta[3,4,3]
phiBeta[4,4,3]
count
value


phiBeta[1,2,4]
phiBeta[2,1,4]
phiBeta[2,2,4]
phiBeta[3,1,4]
phiBeta[4,1,4]
count
value
0
20
40
60
1
2
3
4
−1
0.0
0.5
1.0


phiBeta[1,3,4]
phiBeta[2,3,4]
phiBeta[3,2,4]
phiBeta[3,3,4]
phiBeta[4,2,4]
count
value


phiBeta[1,4,4]
phiBeta[2,4,4]
phiBeta[3,4,4]
phiBeta[4,3,4]
phiBeta[4,4,4]
count
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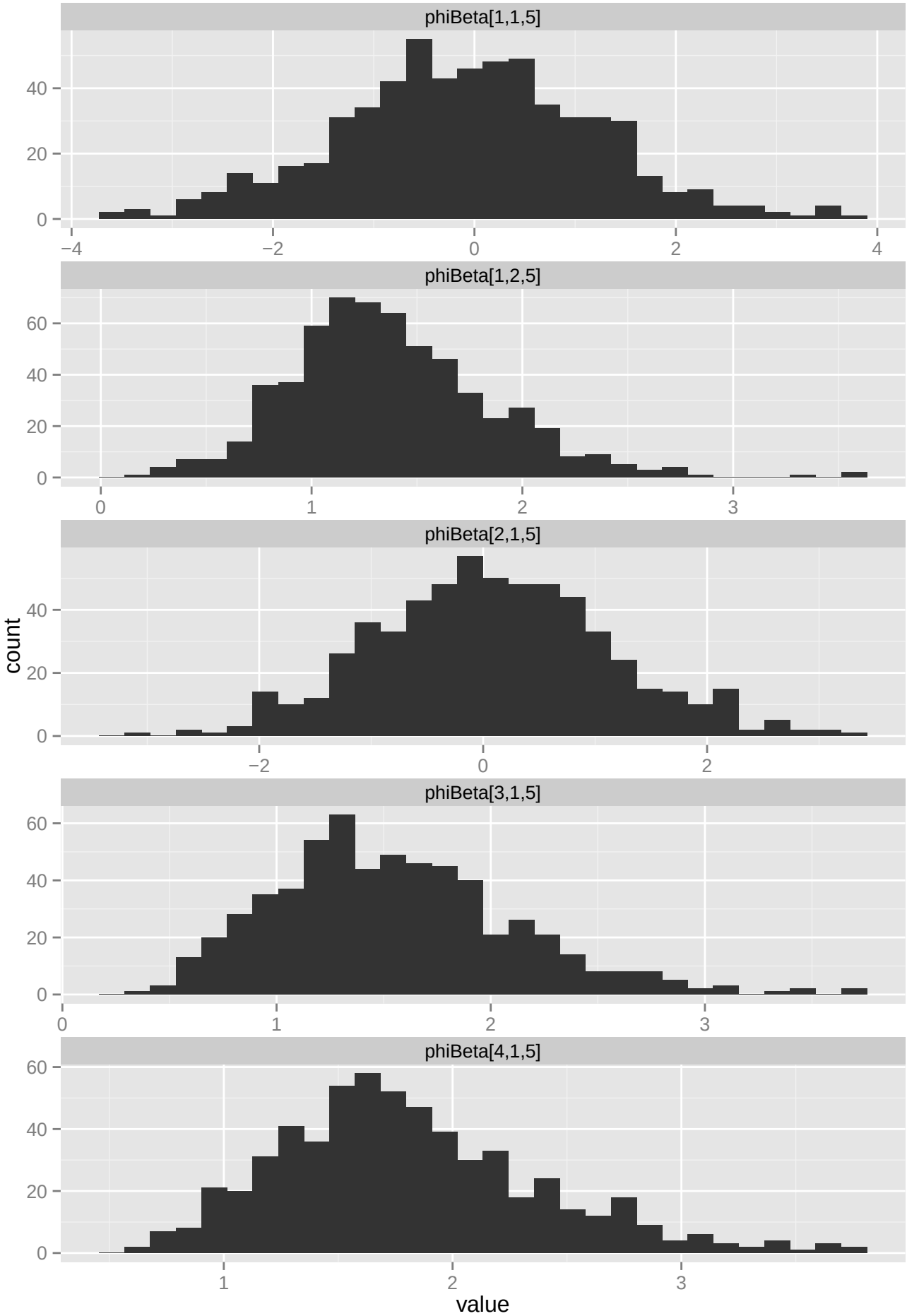
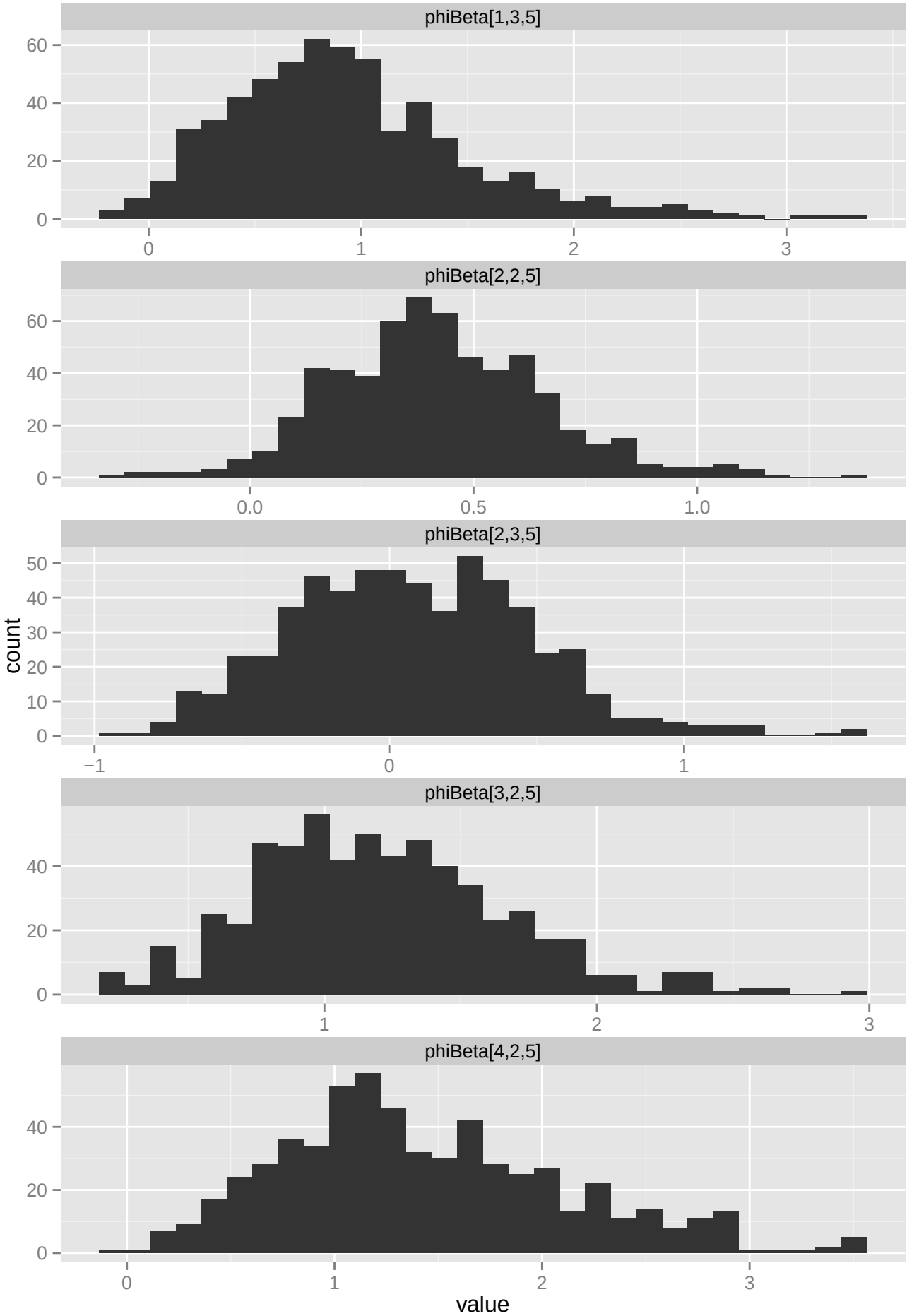
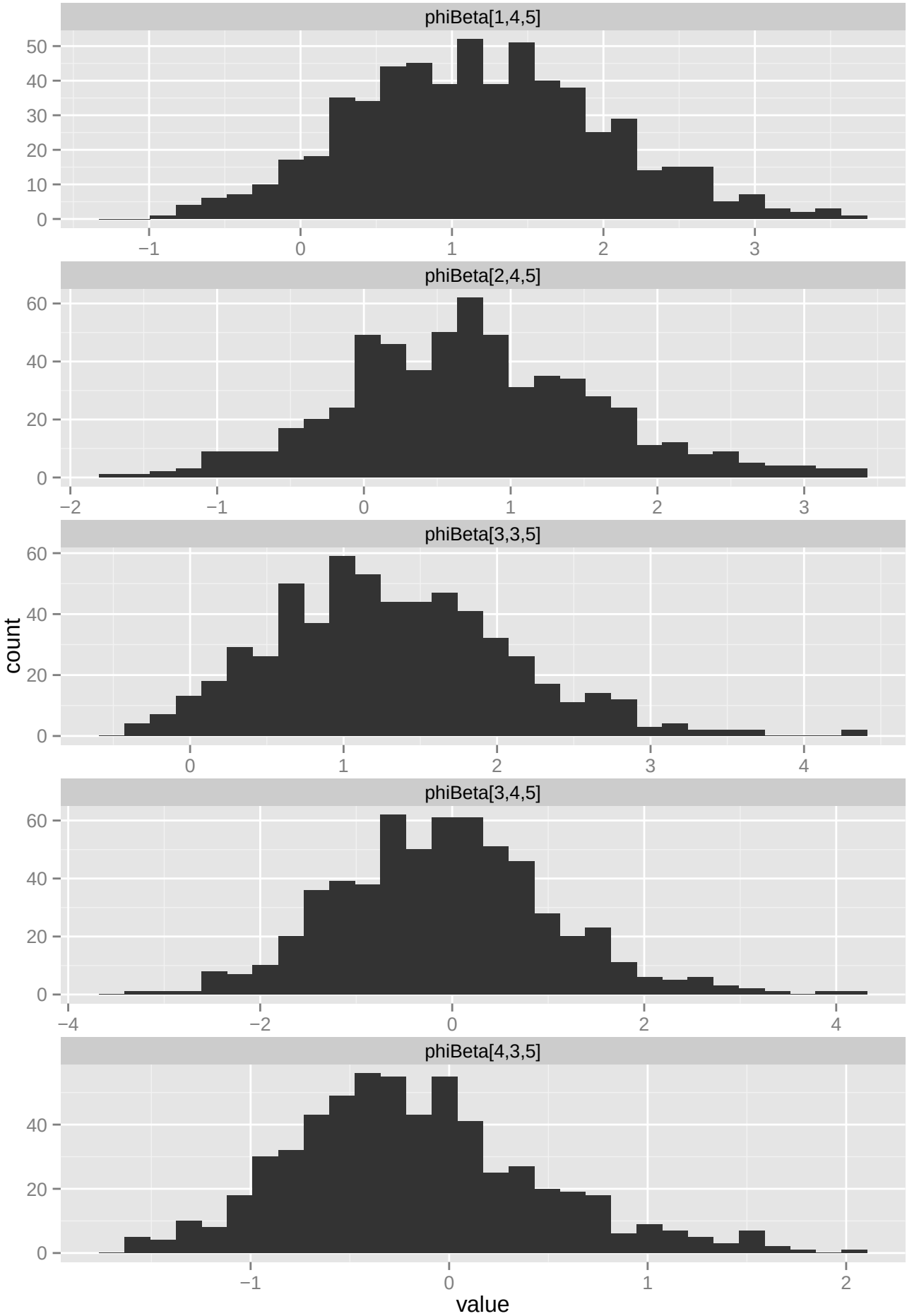

phiBeta[1,1,5]
phiBeta[1,2,5]
phiBeta[2,1,5]
phiBeta[3,1,5]
phiBeta[4,1,5]
count
value


phiBeta[1,3,5]
phiBeta[2,2,5]
phiBeta[2,3,5]
phiBeta[3,2,5]
phiBeta[4,2,5]
count
value


phiBeta[1,4,5]
phiBeta[2,4,5]
phiBeta[3,3,5]
phiBeta[3,4,5]
phiBeta[4,3,5]
count
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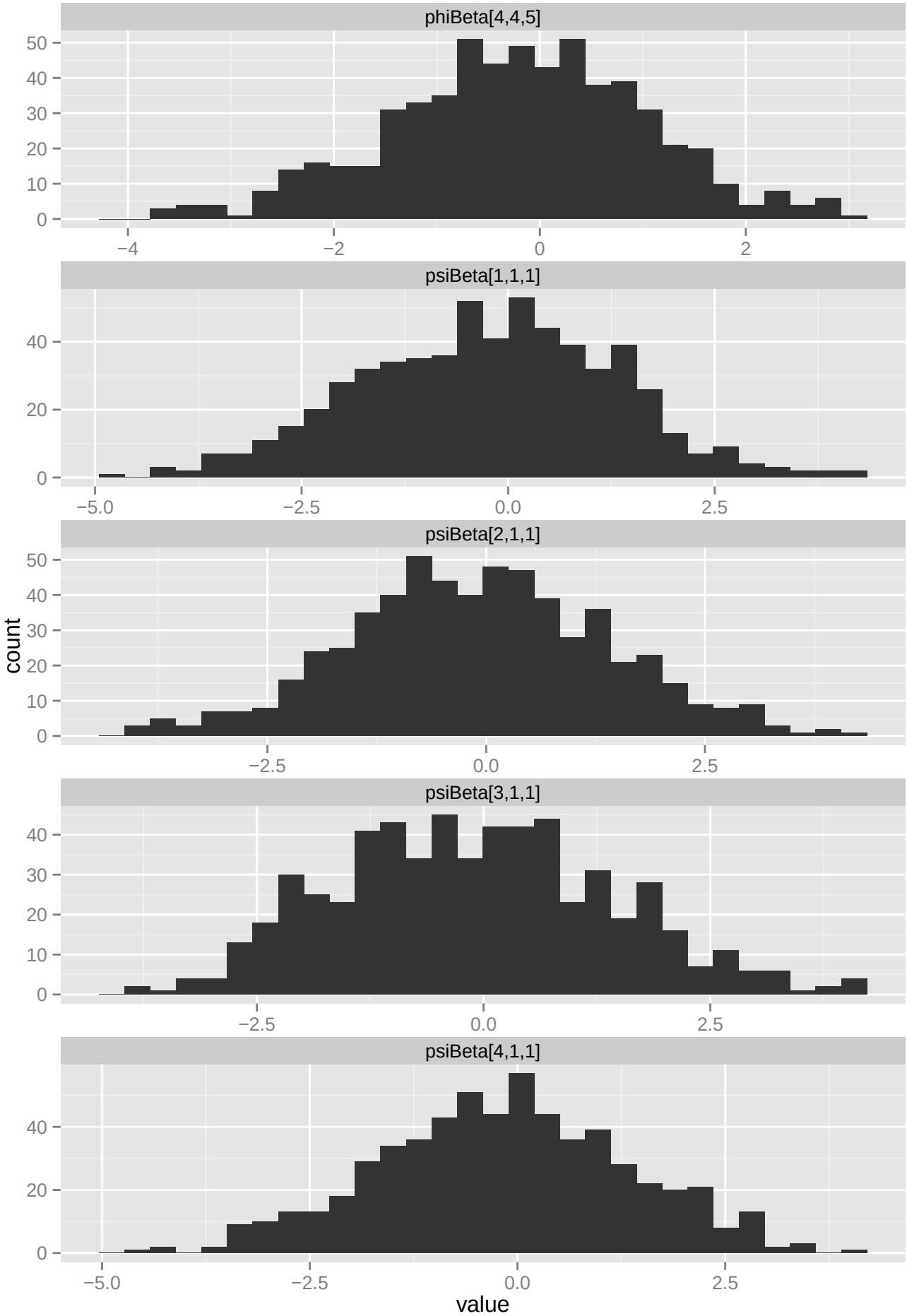
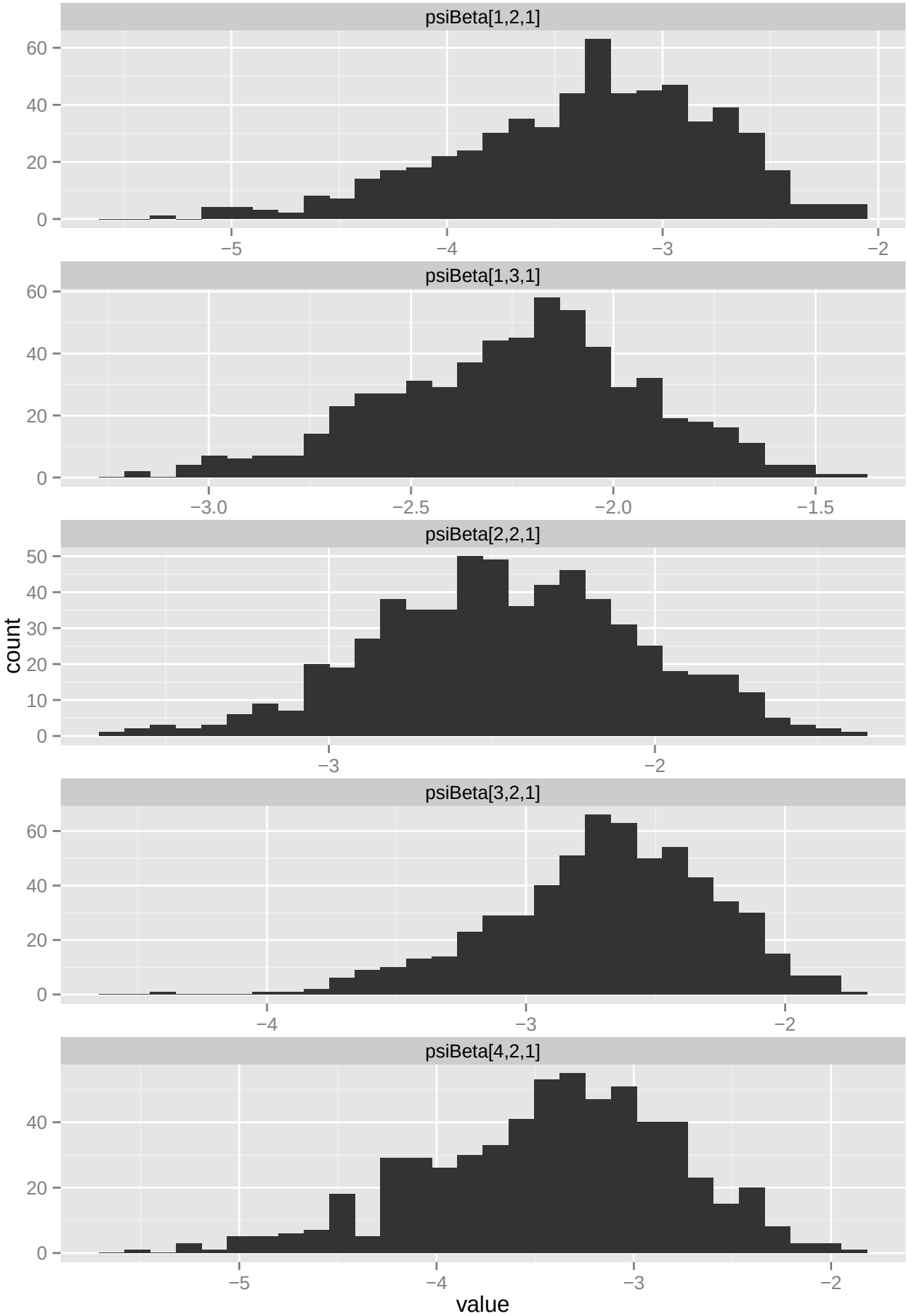
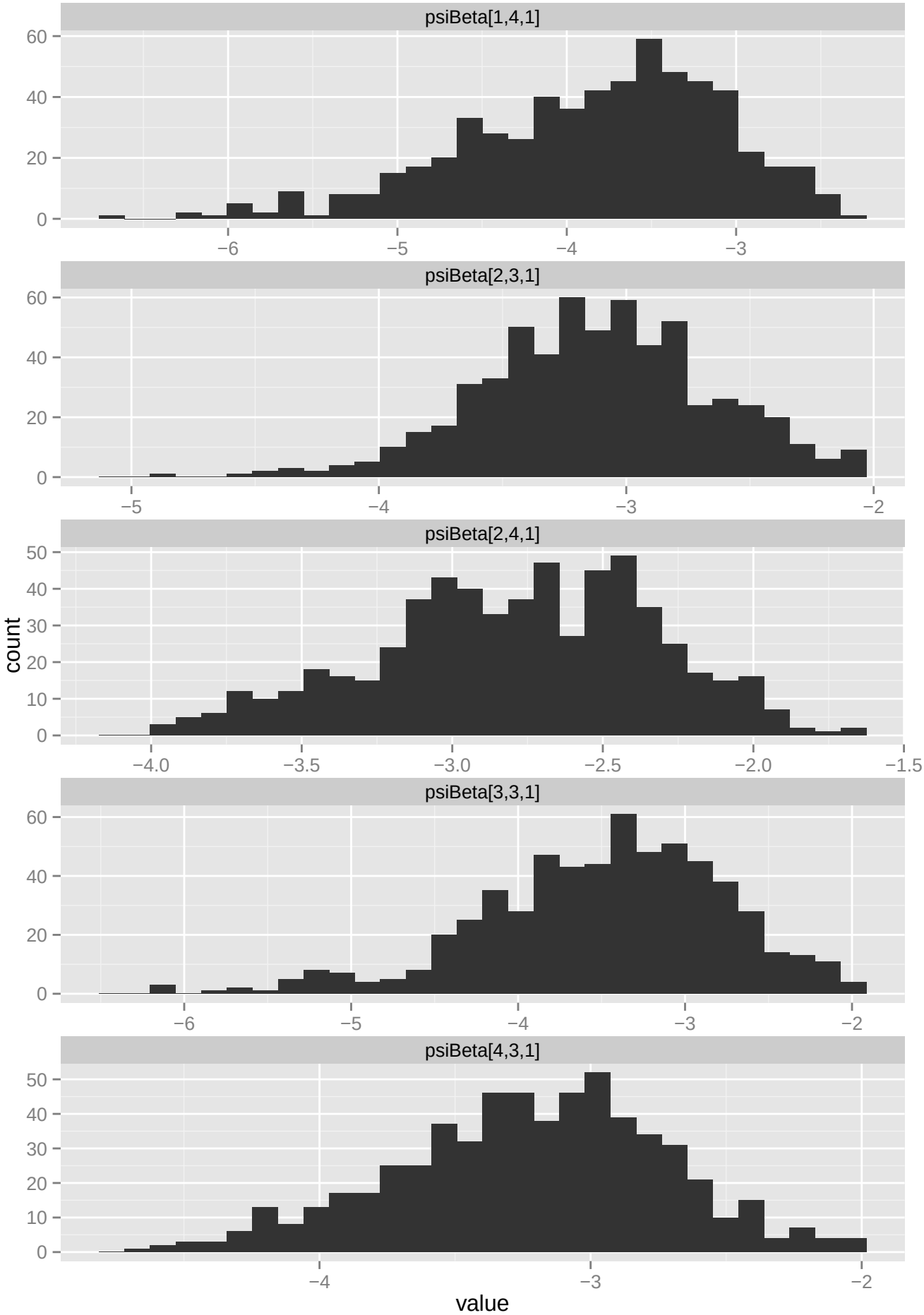
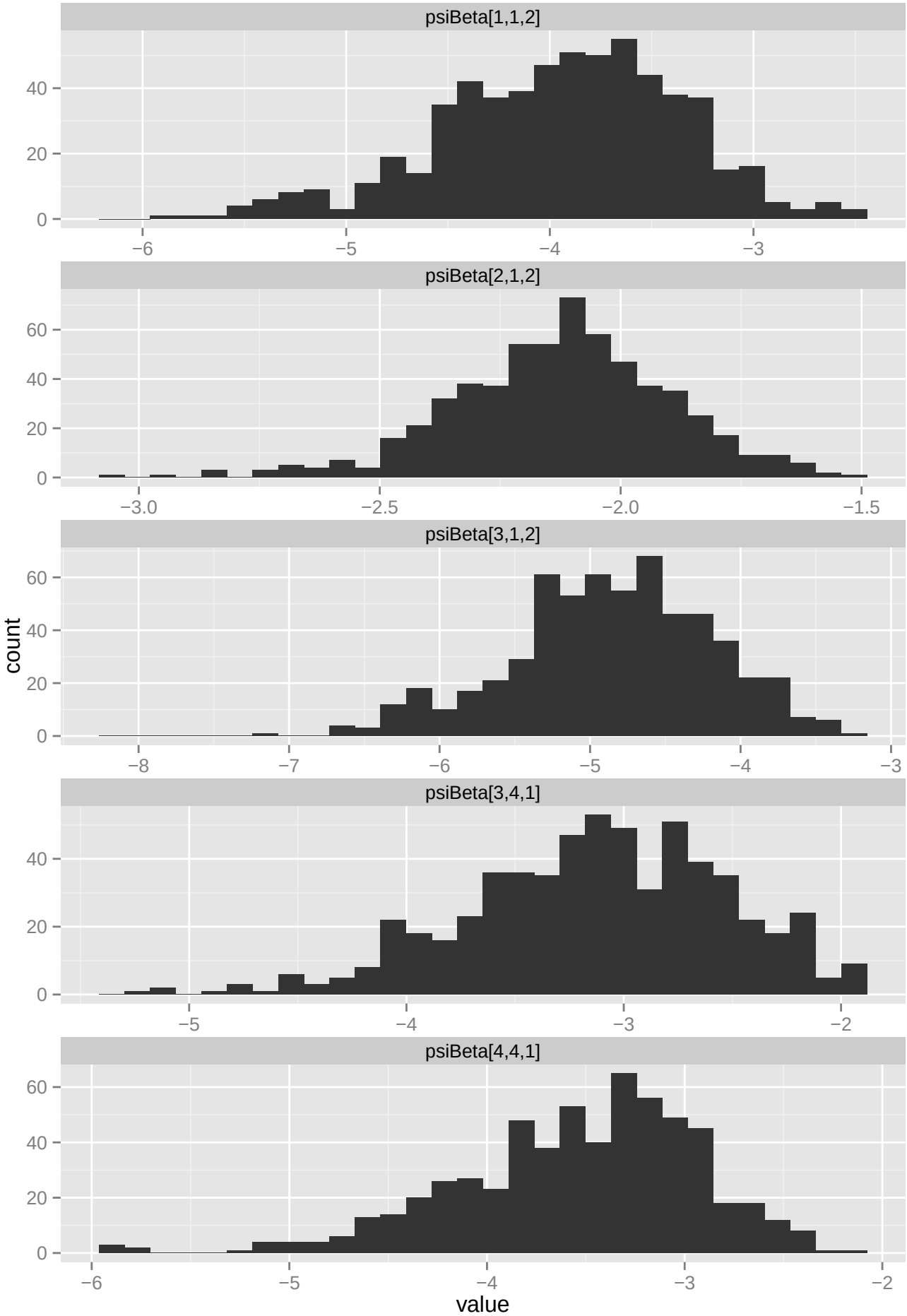

phiBeta[4,4,5]
psiBeta[1,1,1]
psiBeta[2,1,1]
psiBeta[3,1,1]
psiBeta[4,1,1]
count
value


psiBeta[1,2,1]
psiBeta[1,3,1]
psiBeta[2,2,1]
psiBeta[3,2,1]
psiBeta[4,2,1]
count
value


psiBeta[1,4,1]
psiBeta[2,3,1]
psiBeta[2,4,1]
psiBeta[3,3,1]
psiBeta[4,3,1]
count
value


psiBeta[1,1,2]
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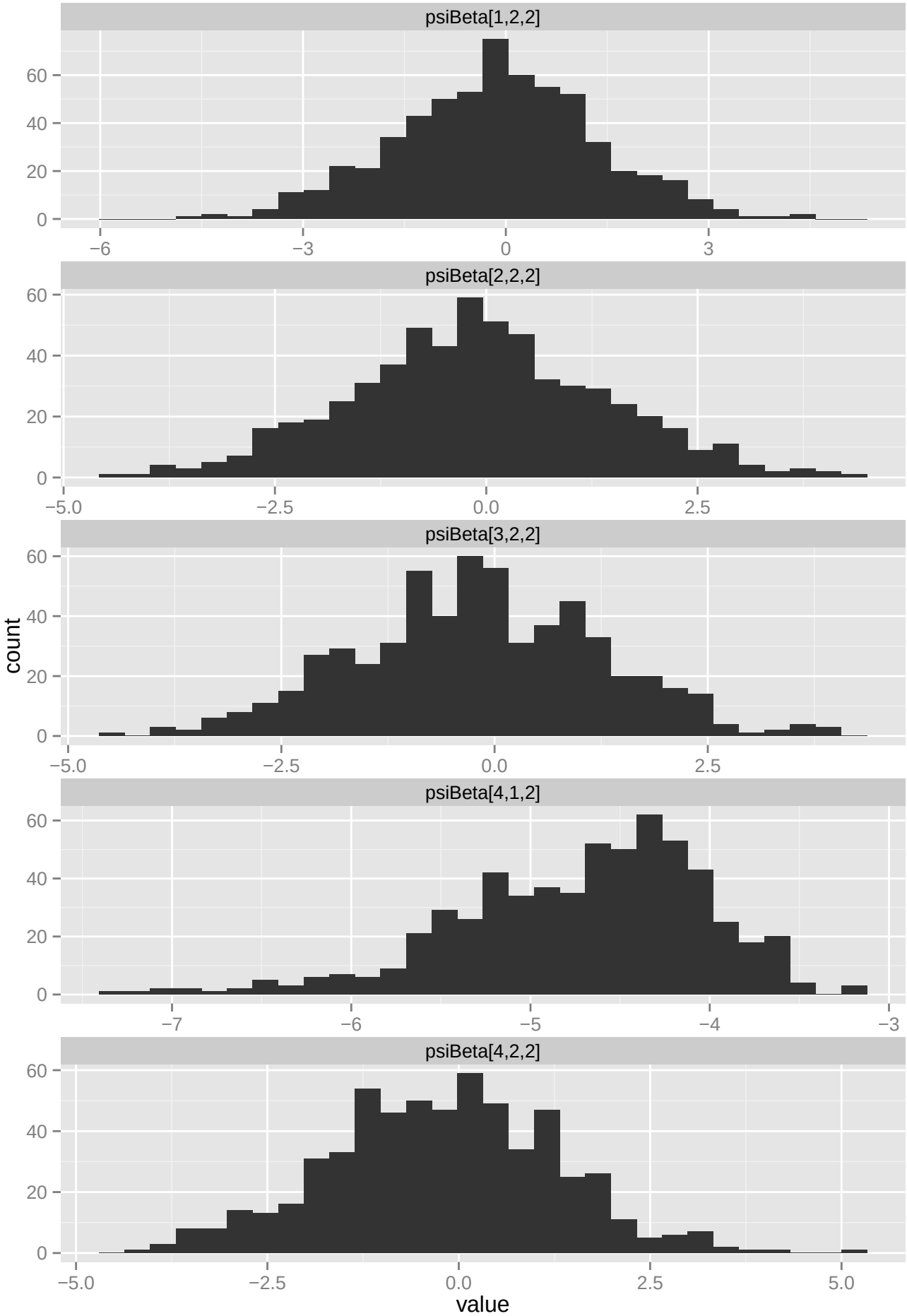
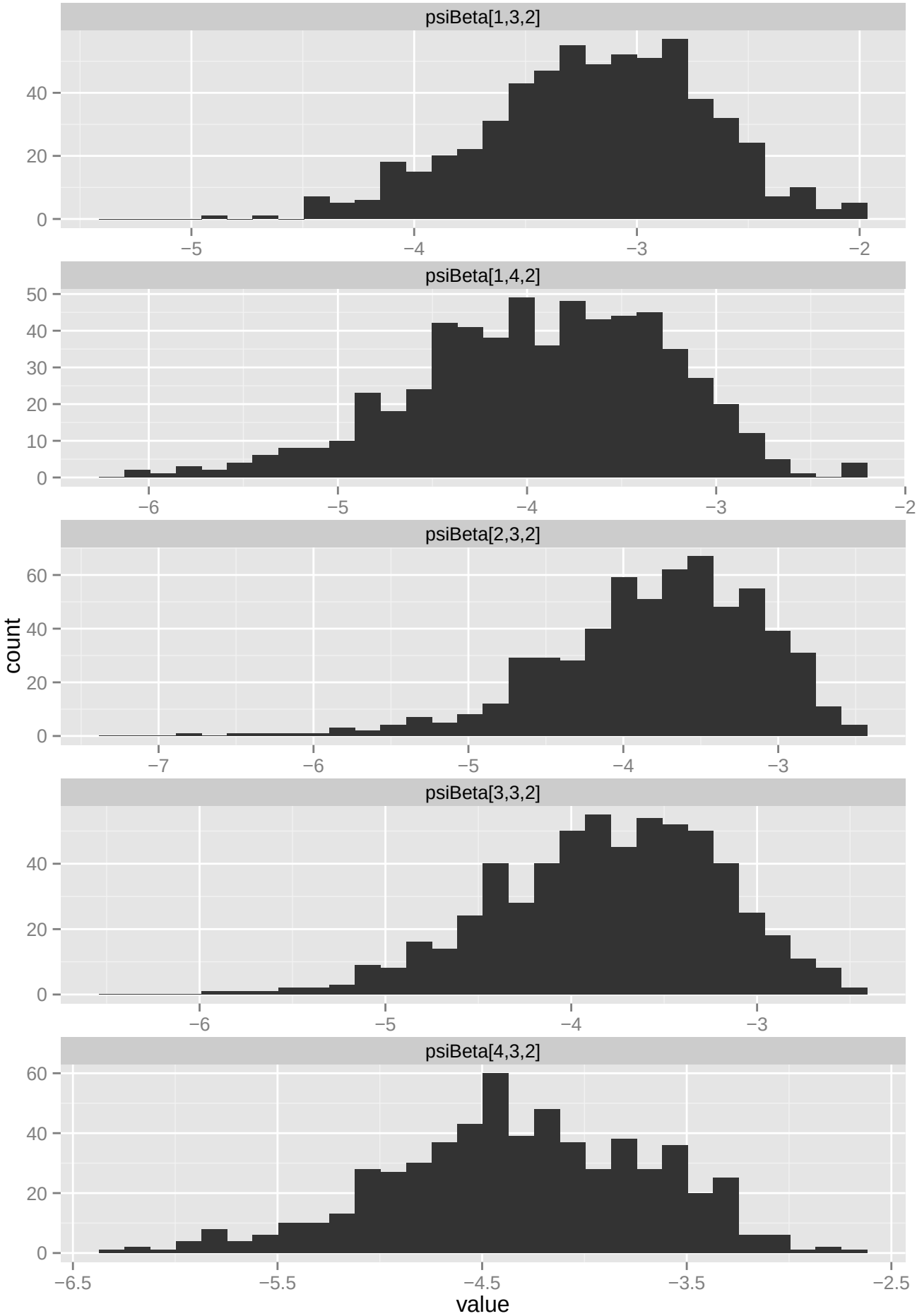
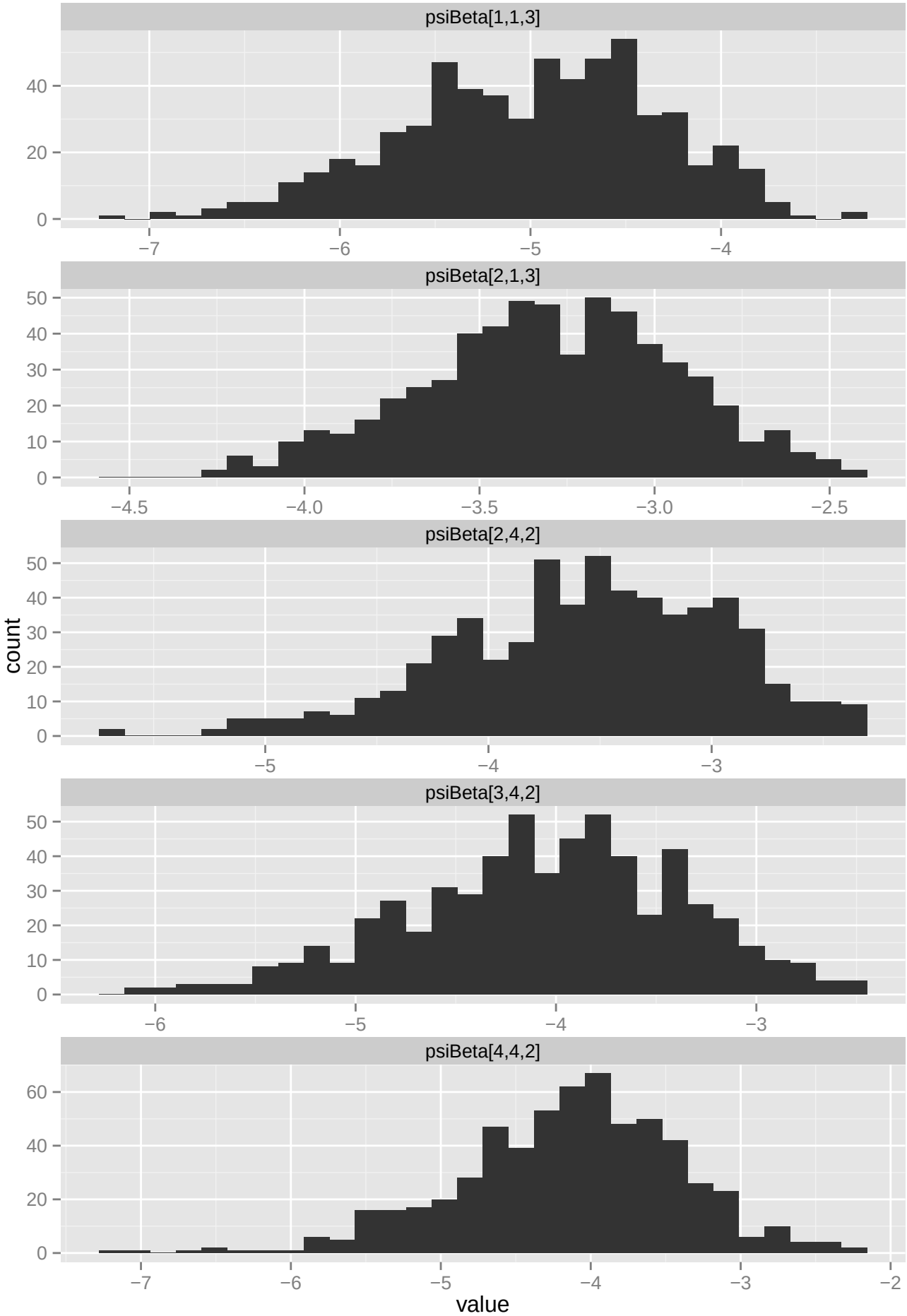
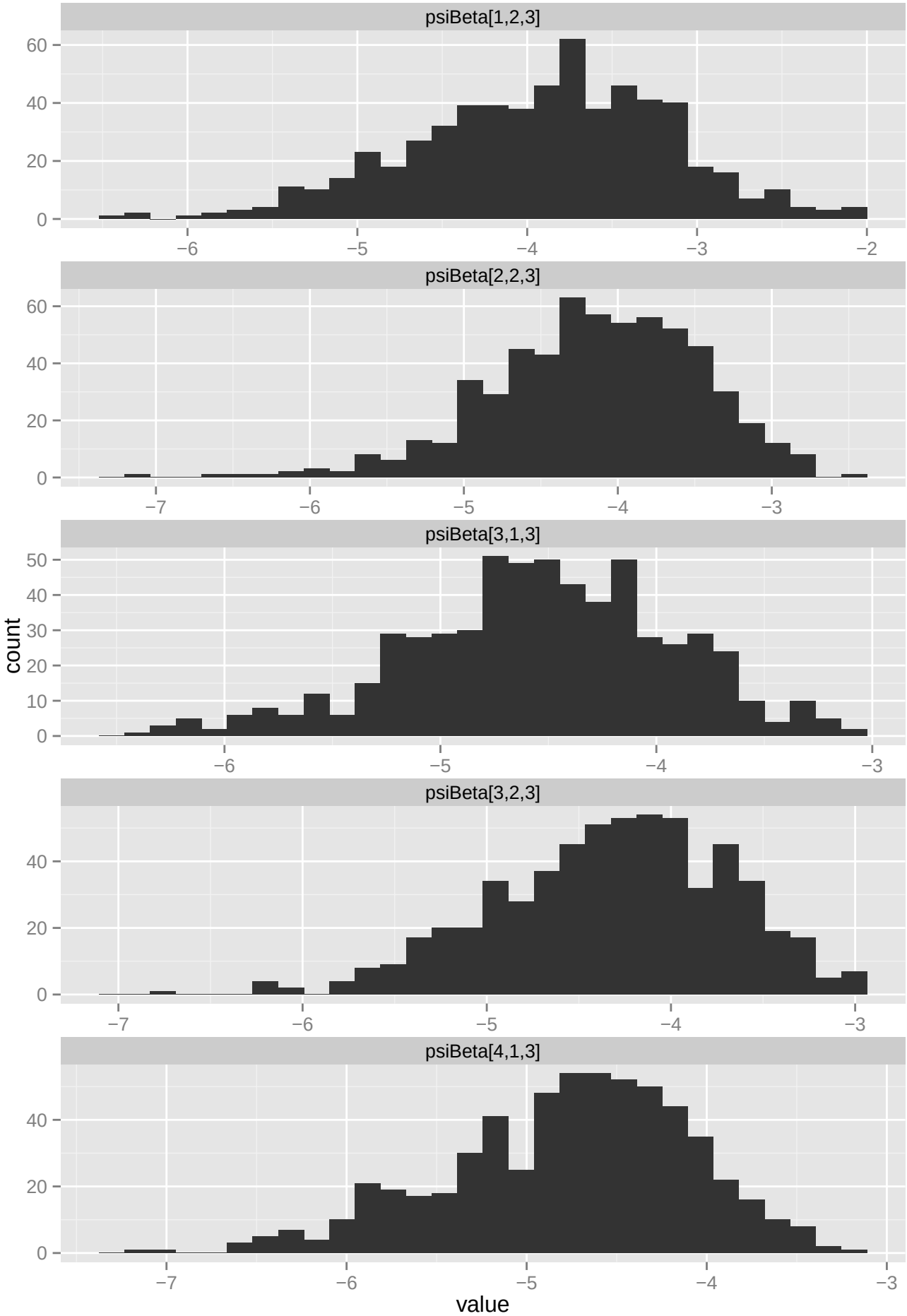
psiBeta[3,1,2]
psiBeta[3,4,1]
psiBeta[4,4,1]
count
value


psiBeta[1,2,2]
psiBeta[2,2,2]
psiBeta[3,2,2]
psiBeta[4,1,2]
psiBeta[4,2,2]
count
value
0
20
40
60
−6
−3
0
3
−5.0
−2.5
0.0
2.5
5.0
−7
−4


psiBeta[1,3,2]
psiBeta[1,4,2]
psiBeta[2,3,2]
psiBeta[3,3,2]
psiBeta[4,3,2]
count
value


psiBeta[1,1,3]
psiBeta[2,1,3]
psiBeta[2,4,2]
psiBeta[3,4,2]
psiBeta[4,4,2]
count
value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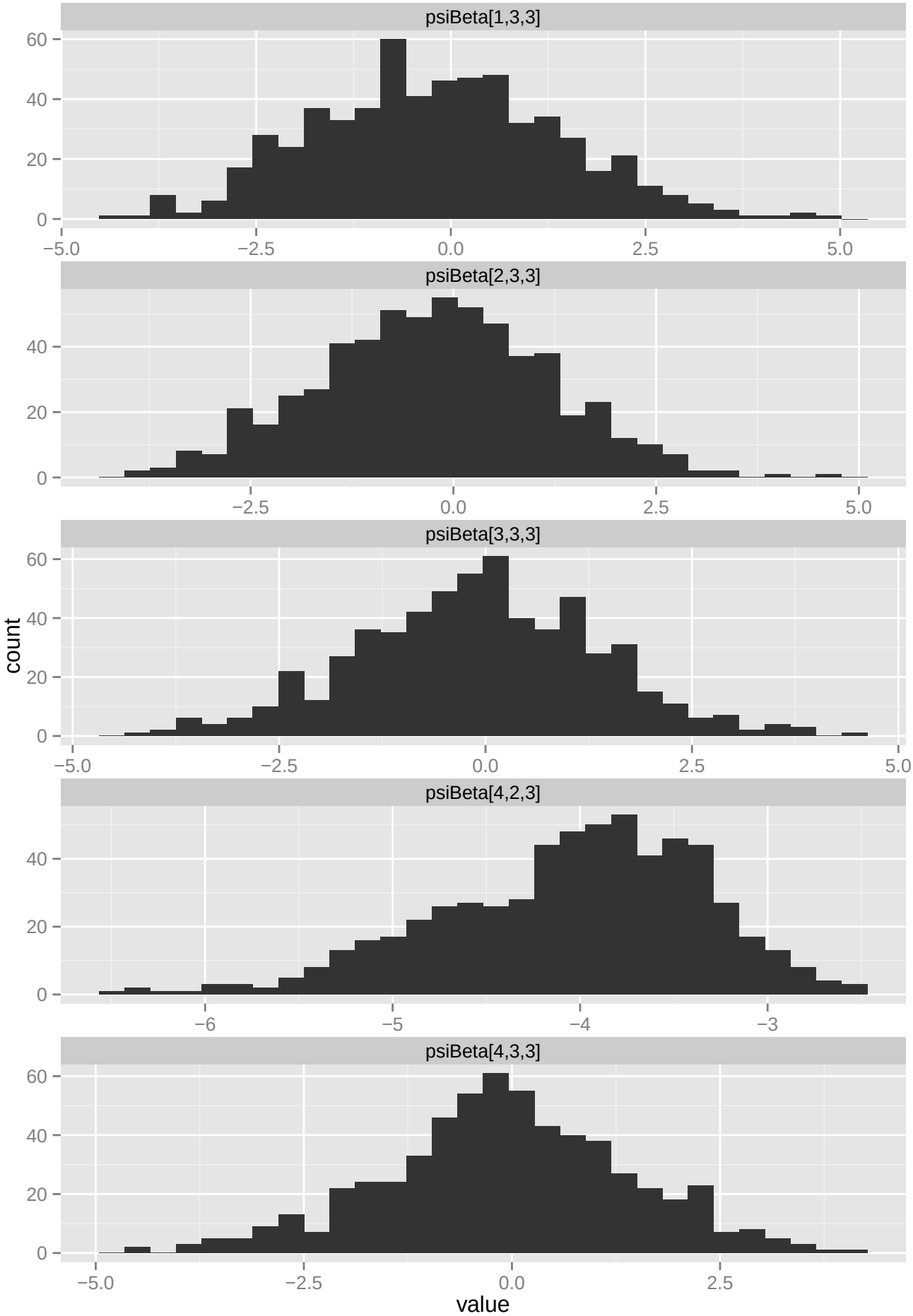
psiBeta[3,2,3]
psiBeta[4,1,3]
count
value


psiBeta[1,3,3]
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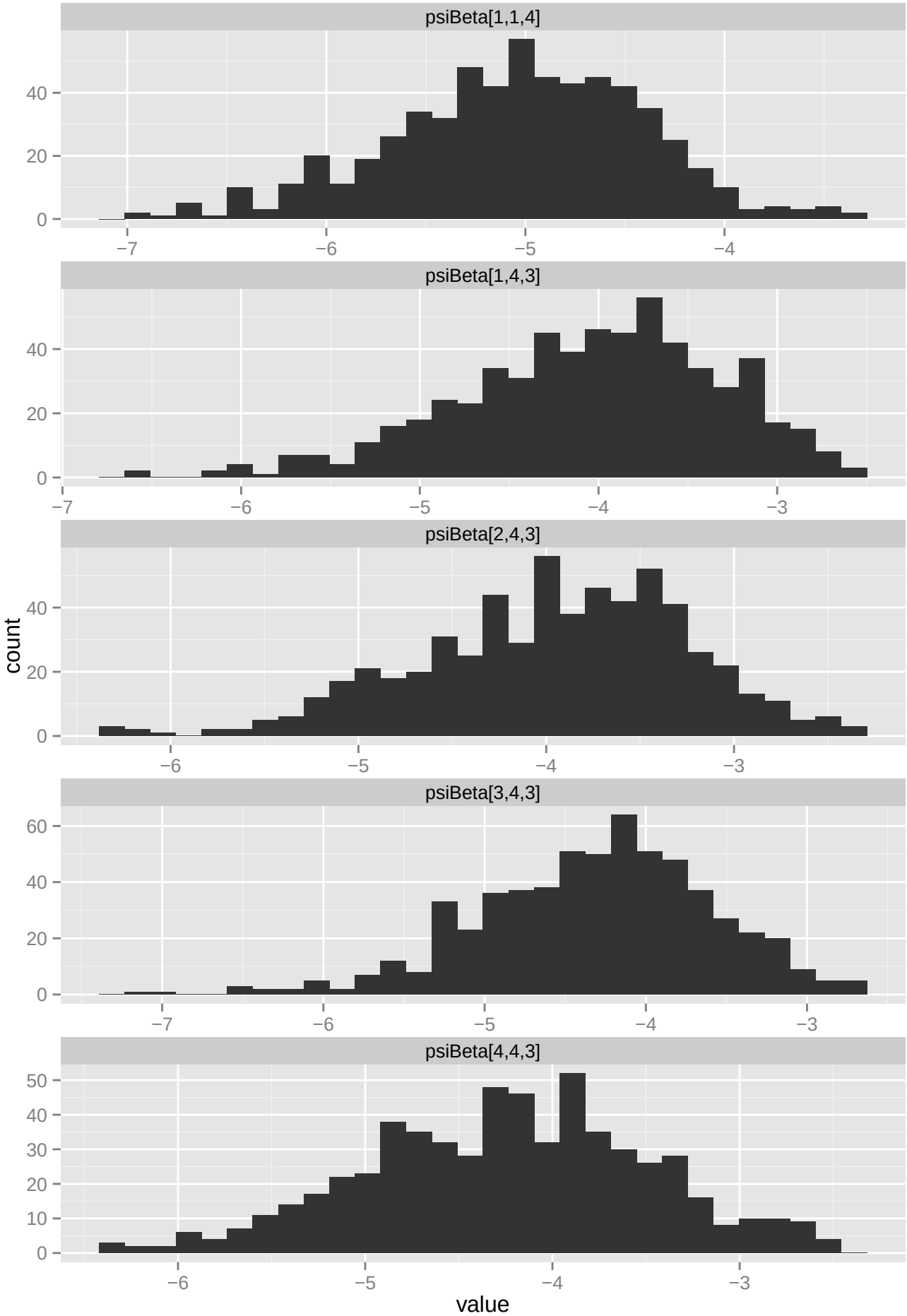
psiBeta[4,2,3]
psiBeta[4,3,3]
count
value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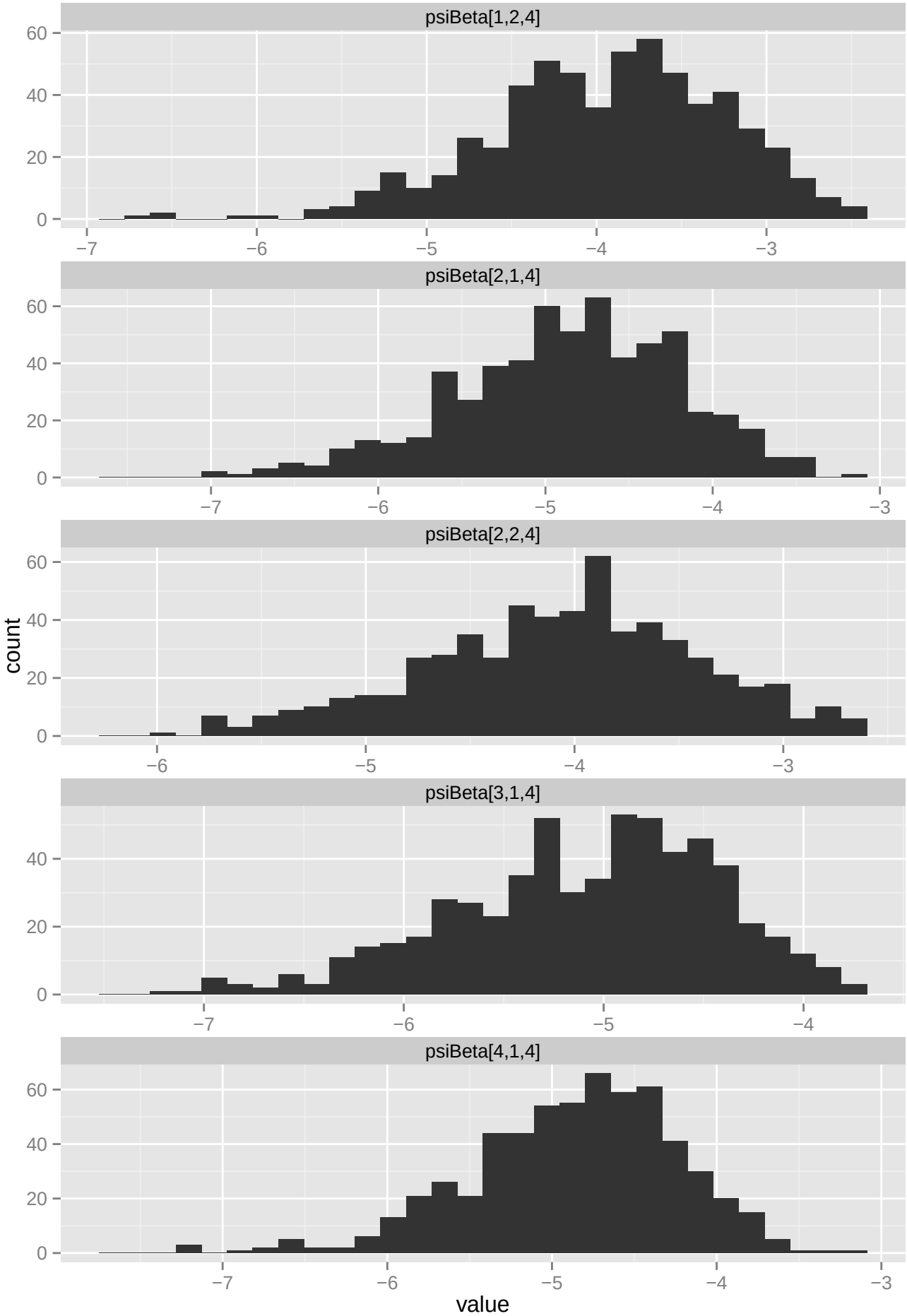
psiBeta[2,4,3]
psiBeta[3,4,3]
psiBeta[4,4,3]
count
value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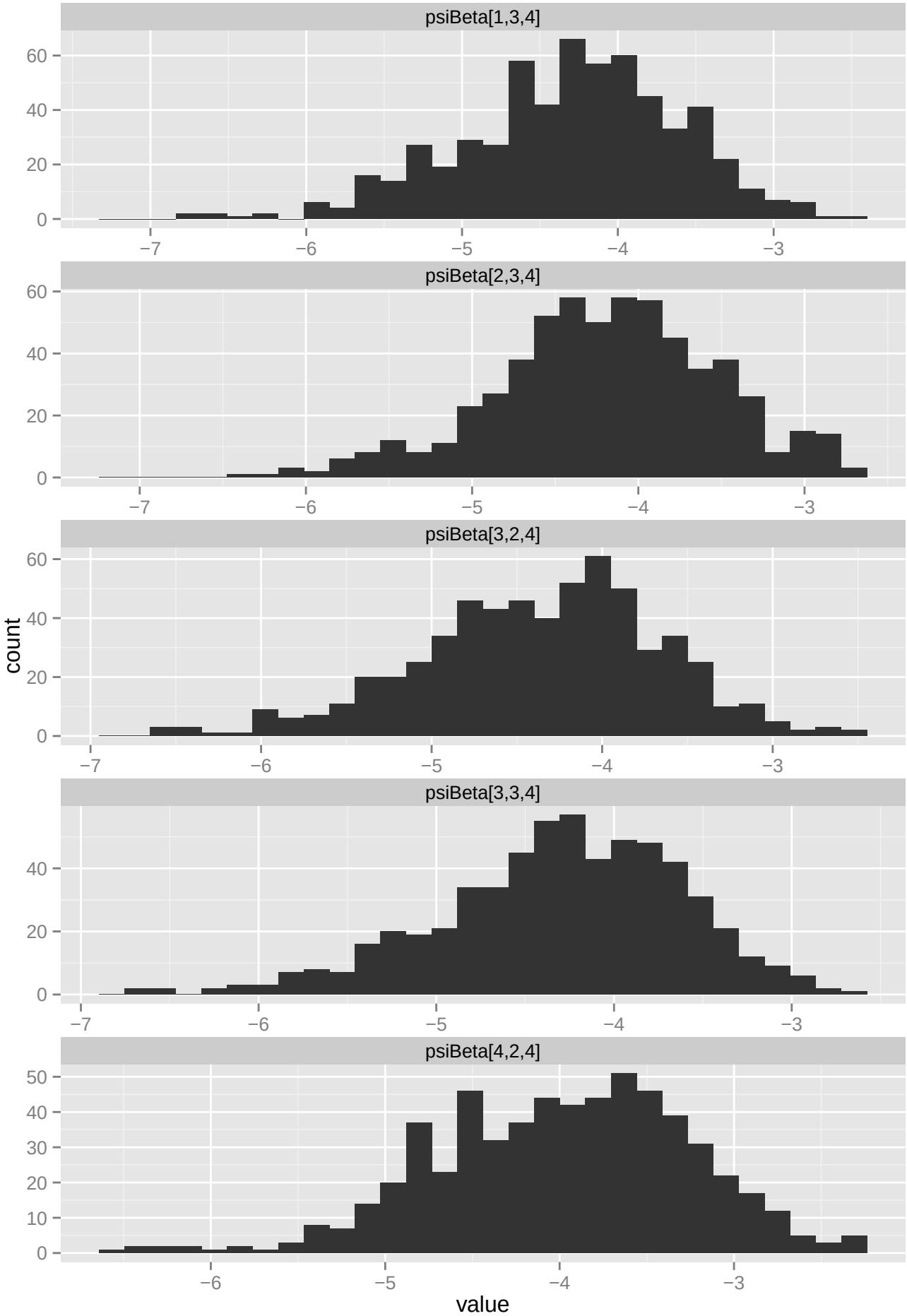
count
value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count
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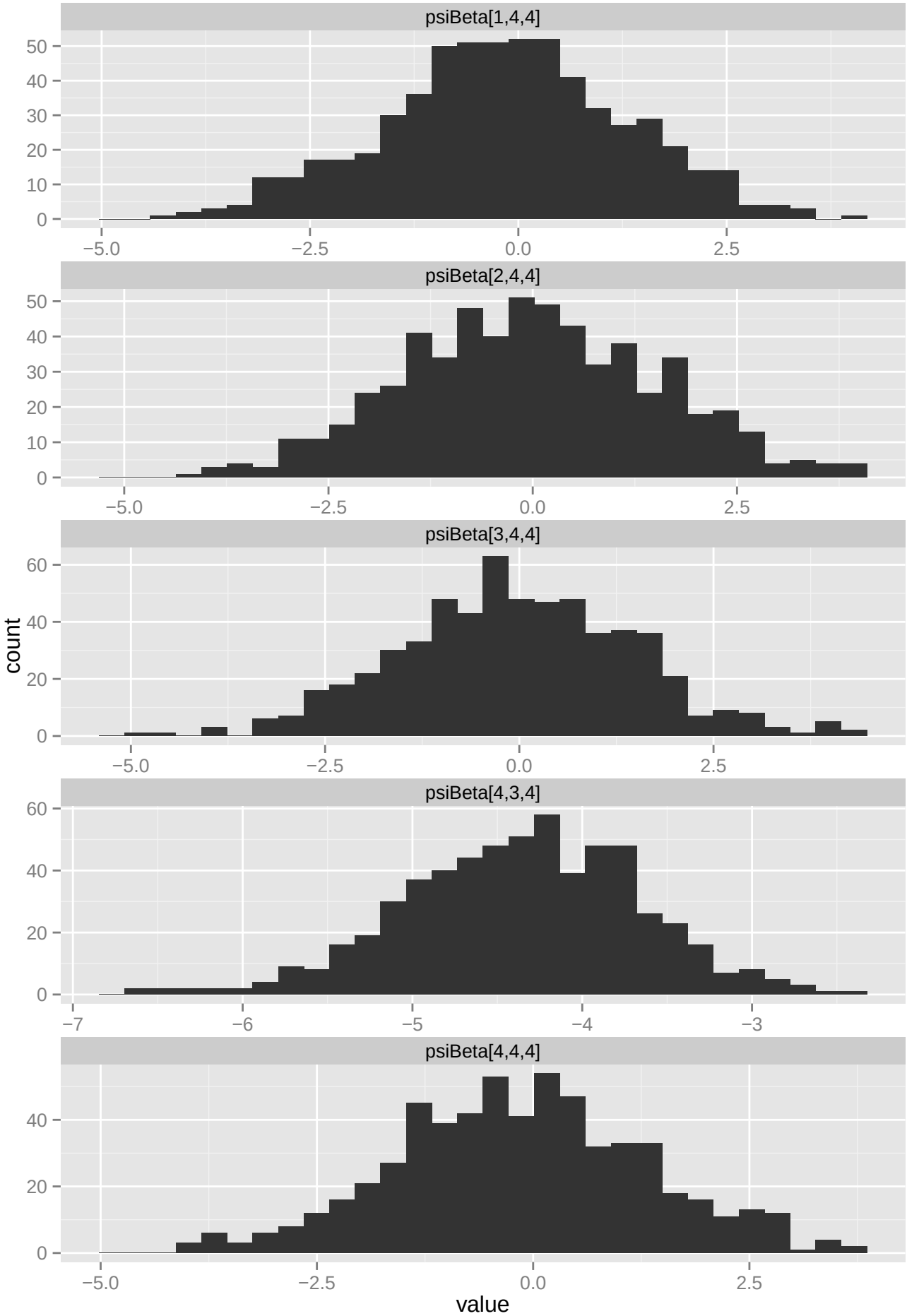
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psiBeta[3,4,4]
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psiBeta[4,4,4]
count
value
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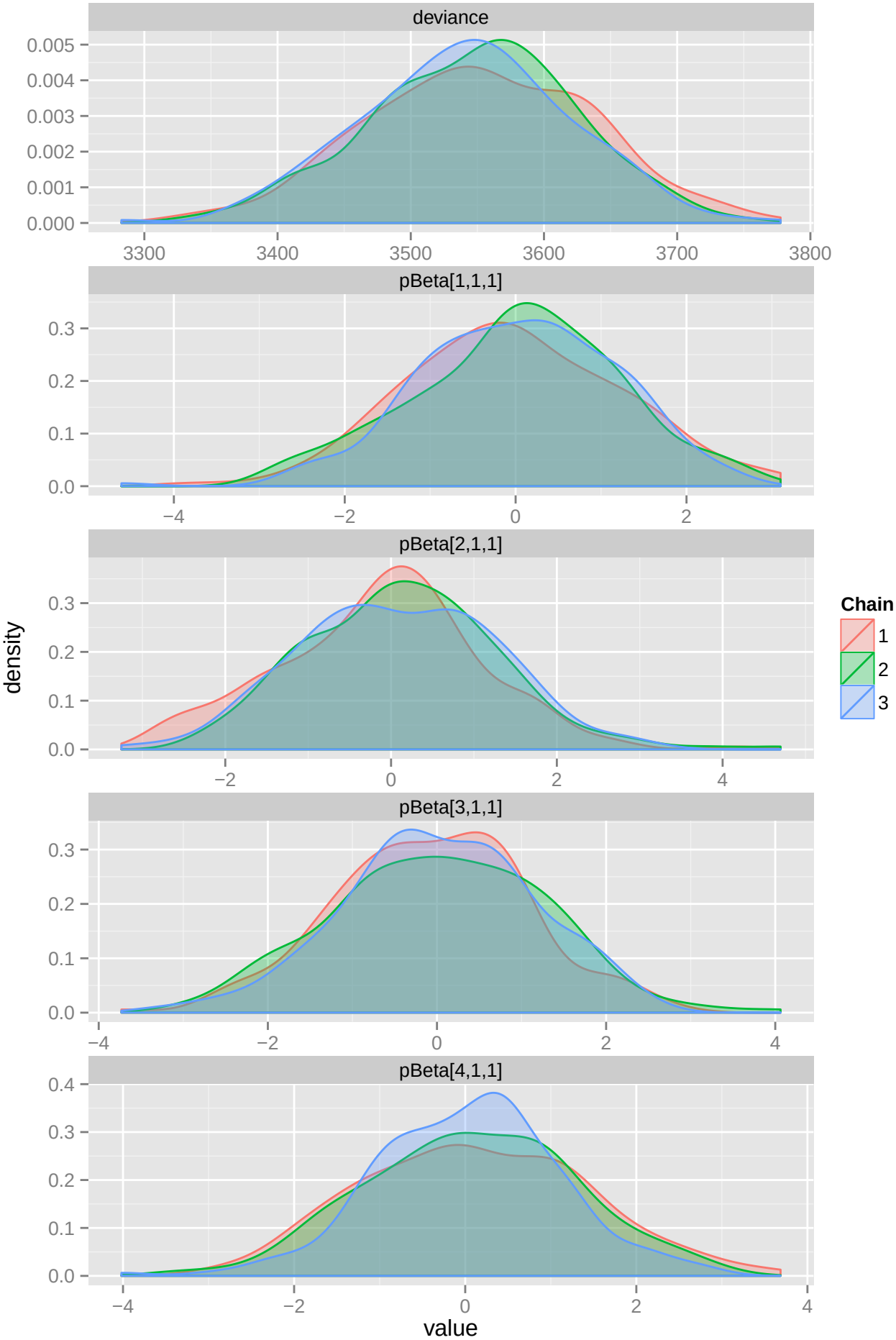
−2.5
0.0
2.5
−7
−6
−5
−4
−3


deviance
0.005
0.004
0.003
0.002
0.001
0.000
3300
3400
3500
3600
3700
3800
pBeta[1,1,1]
0.3
0.2
0.1
0.0
−4
−2
0
2
pBeta[2,1,1]
0.3
0.2
0.1
0.0
−2
0
2
4
pBeta[3,1,1]
0.3
0.2
0.1
0.0
−4
−2
0
2
4
pBeta[4,1,1]
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0.2
0.1
0.0
−4
−2
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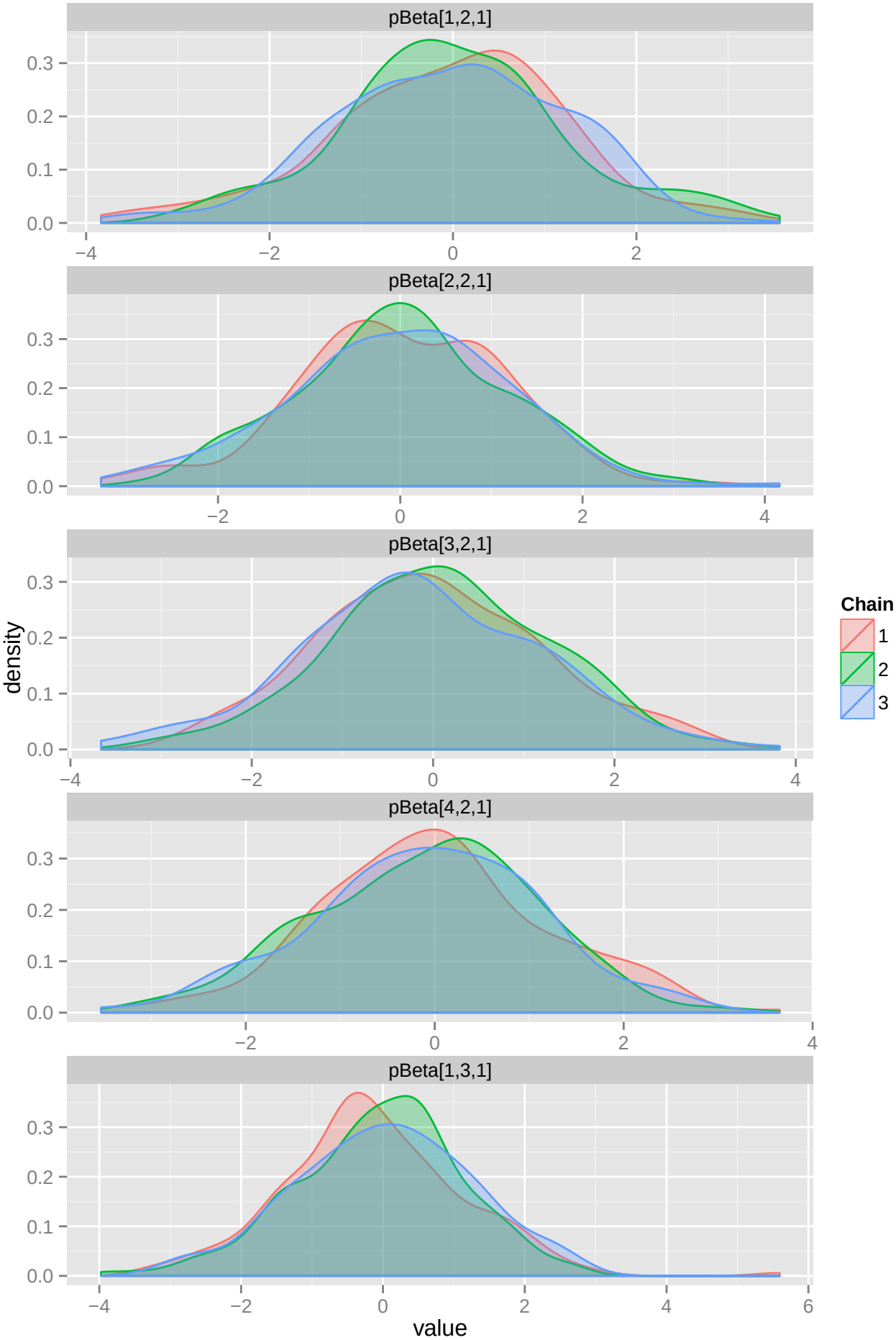
2
4
density
value
Chain
1
2
3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density
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Chain
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2
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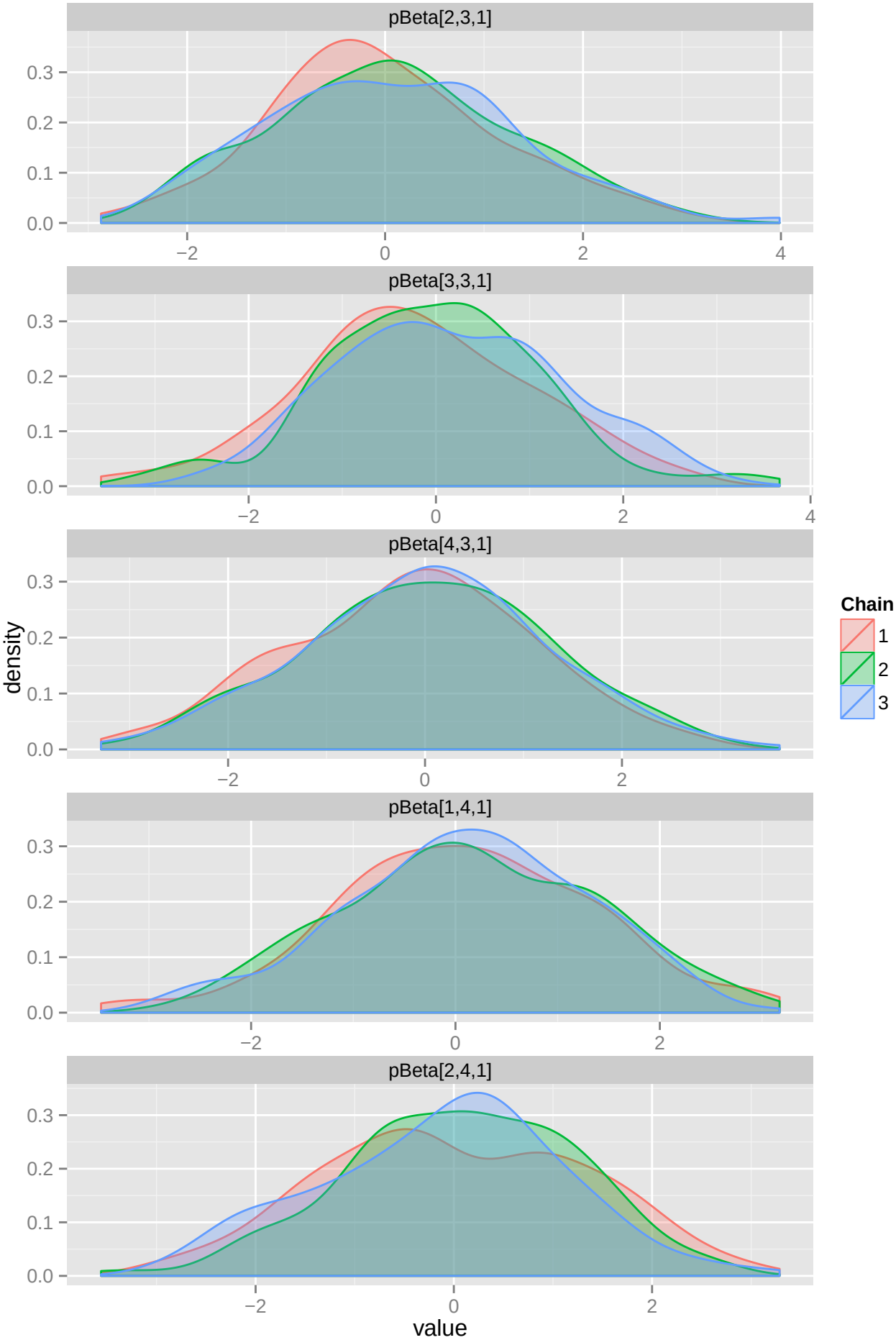
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pBeta[2,4,1]
density
value
Chain
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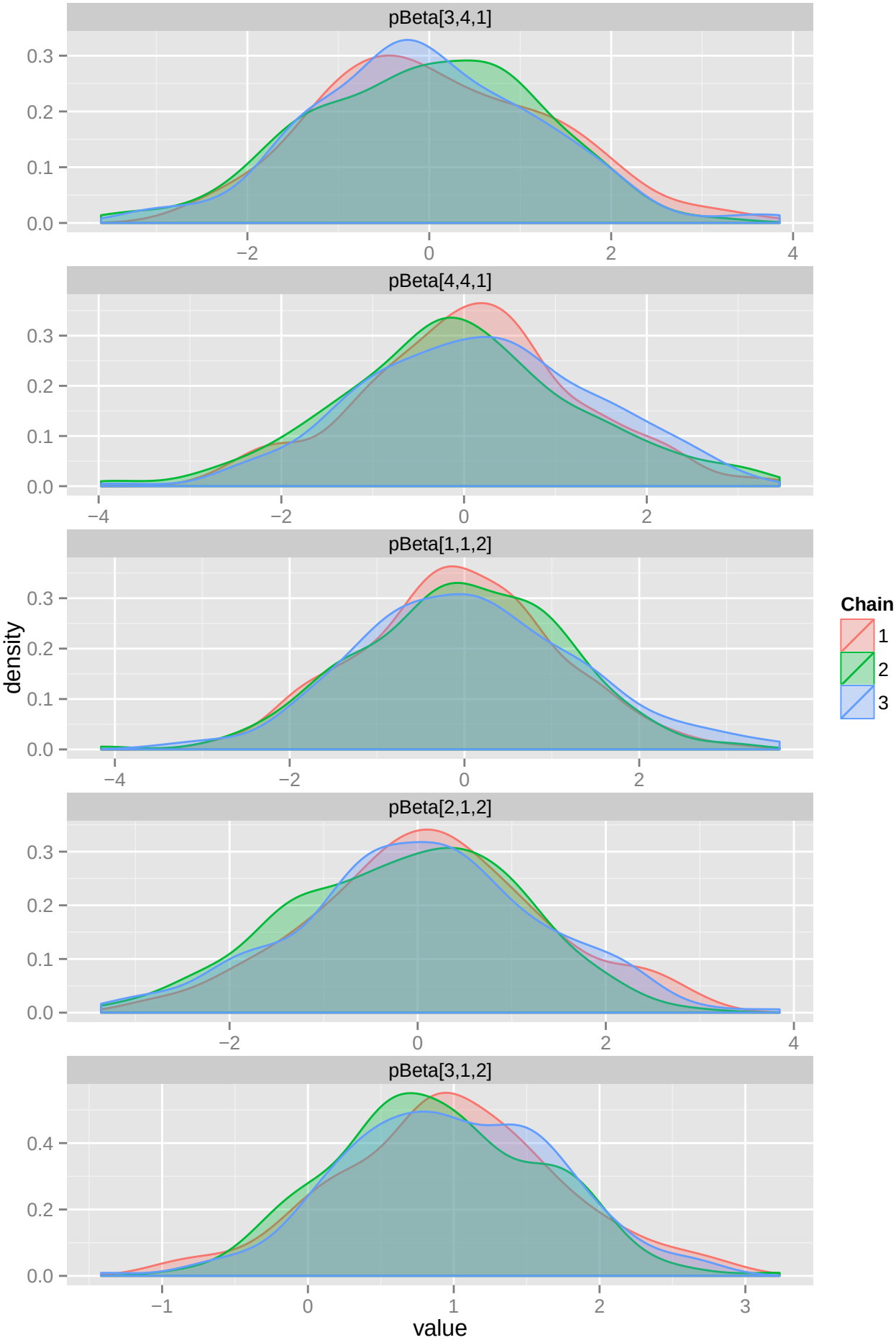
2
3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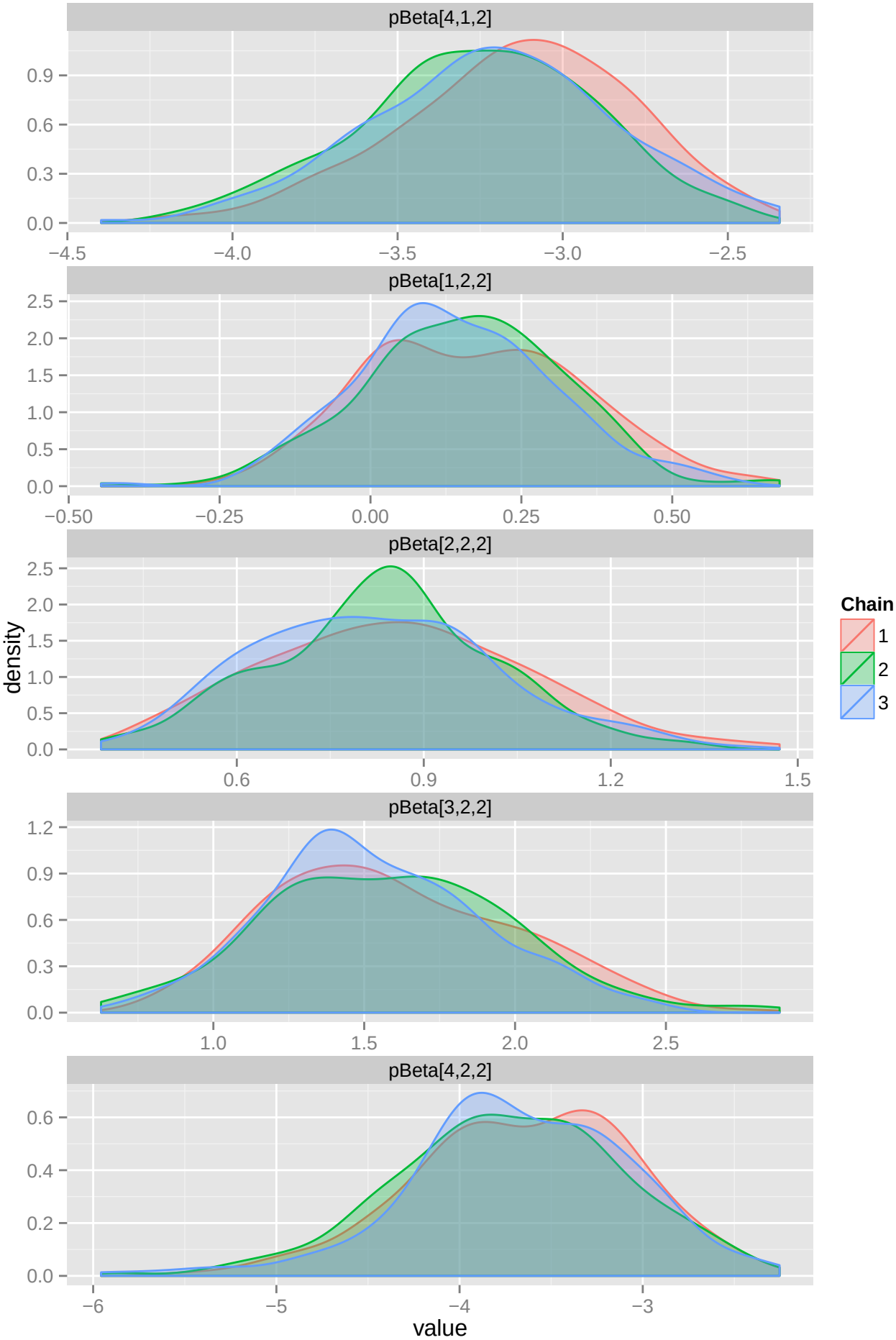
pBeta[3,1,2]
density
value
Chain
1
2
3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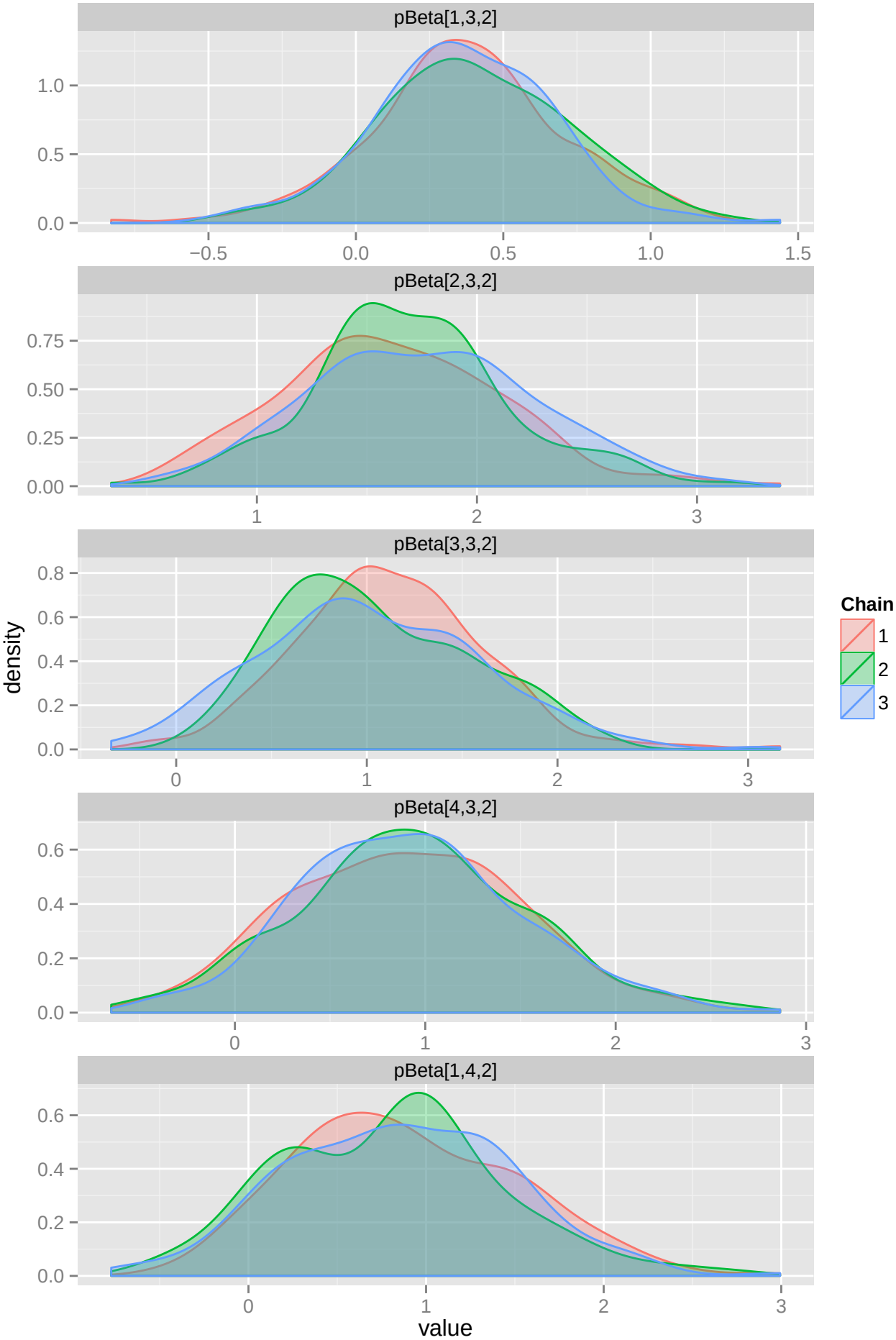
pBeta[4,2,2]
density
value
Chain
1
2
3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pBeta[1,4,2]
density
value
Chain
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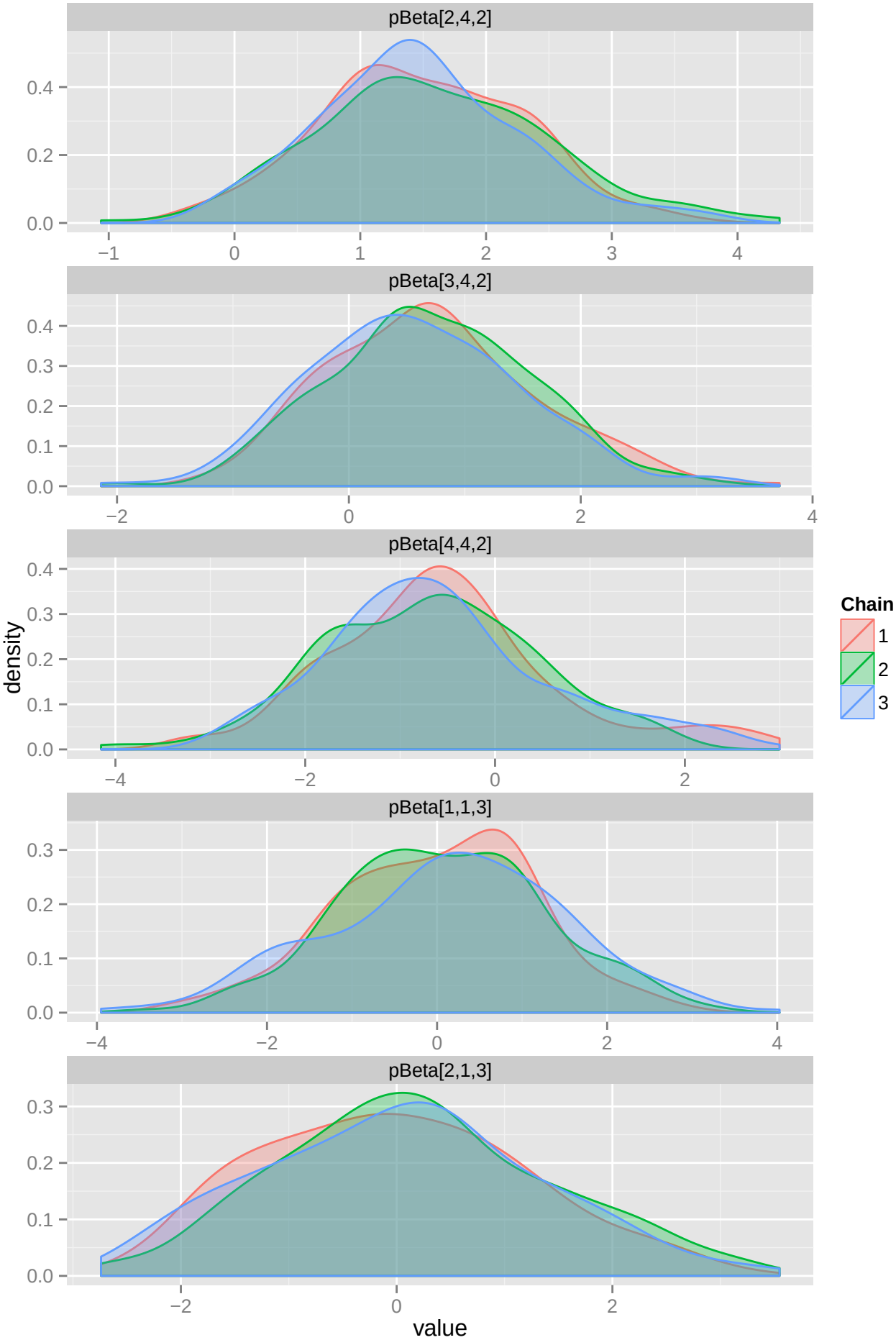
2
3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pBeta[2,1,3]
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Chain
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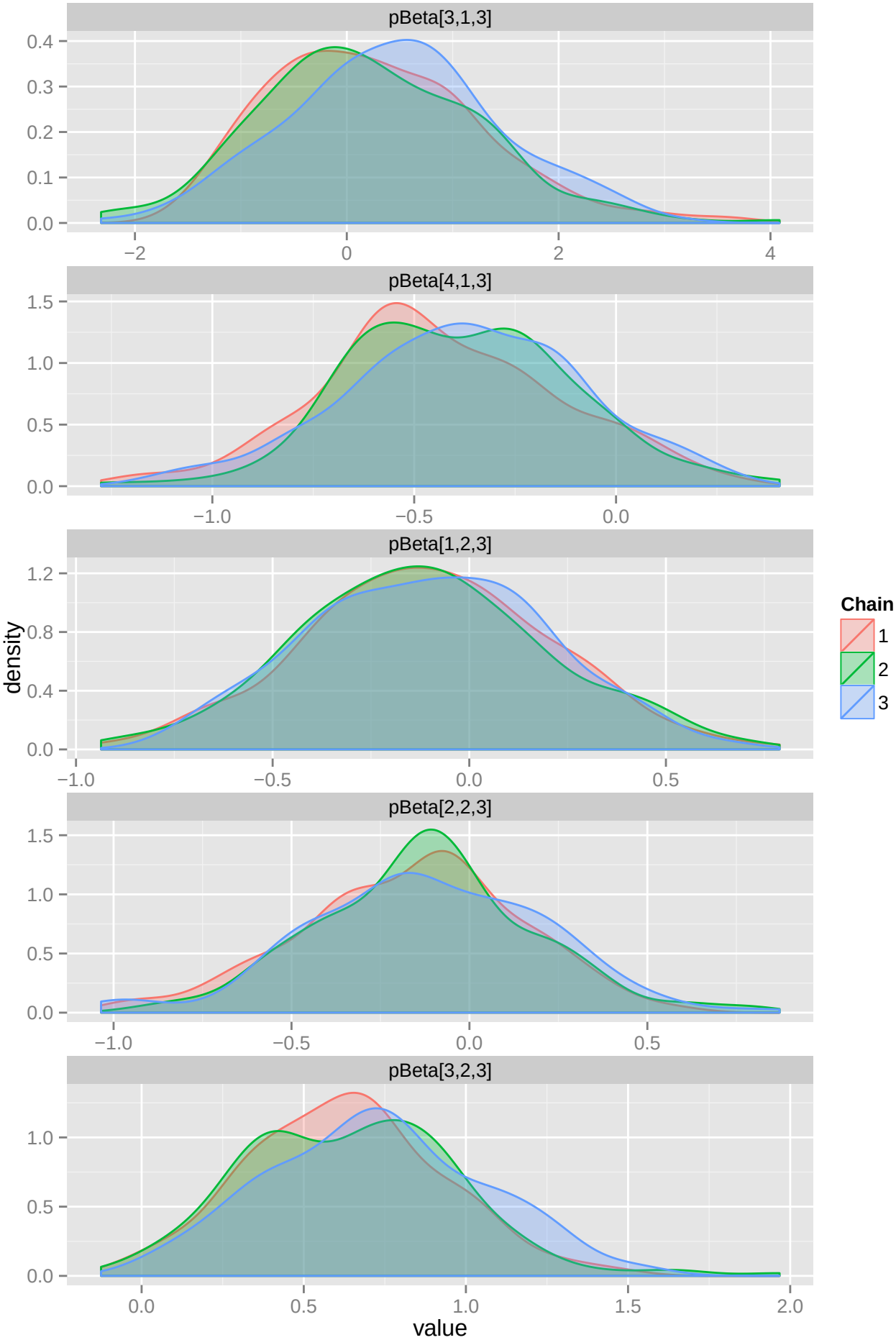
2
3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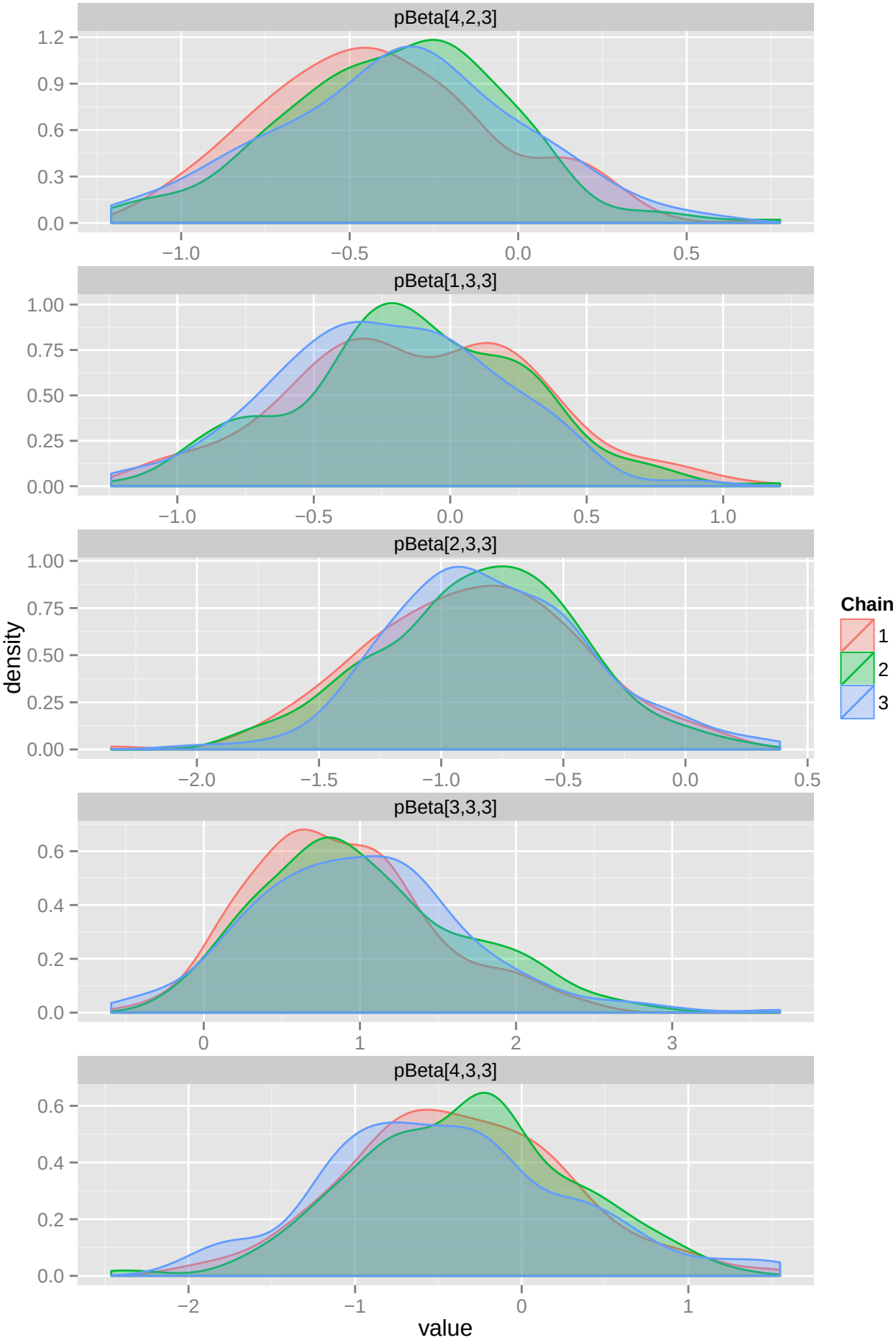
pBeta[3,2,3]
density
value
Chain
1
2
3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pBeta[4,3,3]
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Chain
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2
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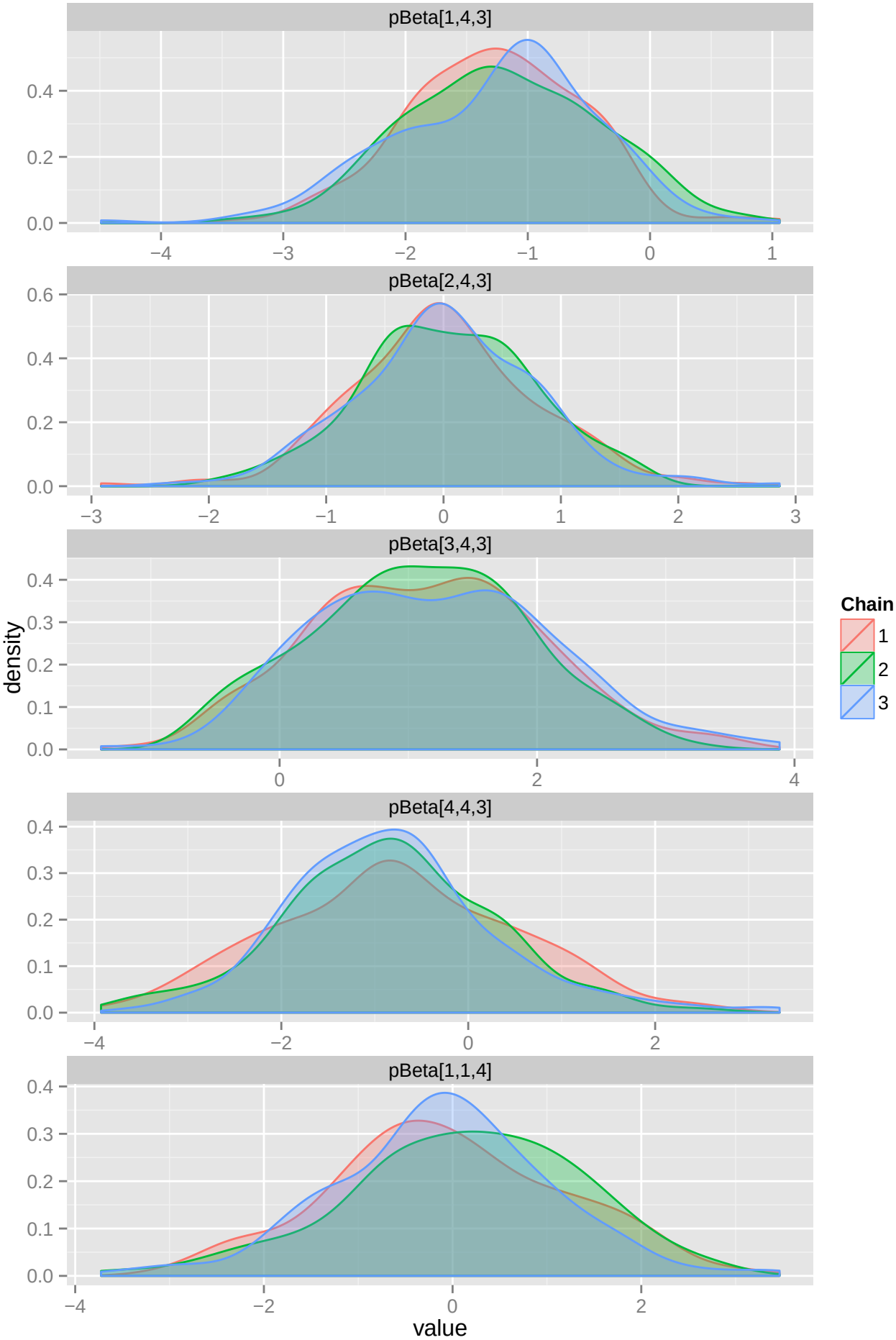
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pBeta[1,1,4]
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Chain
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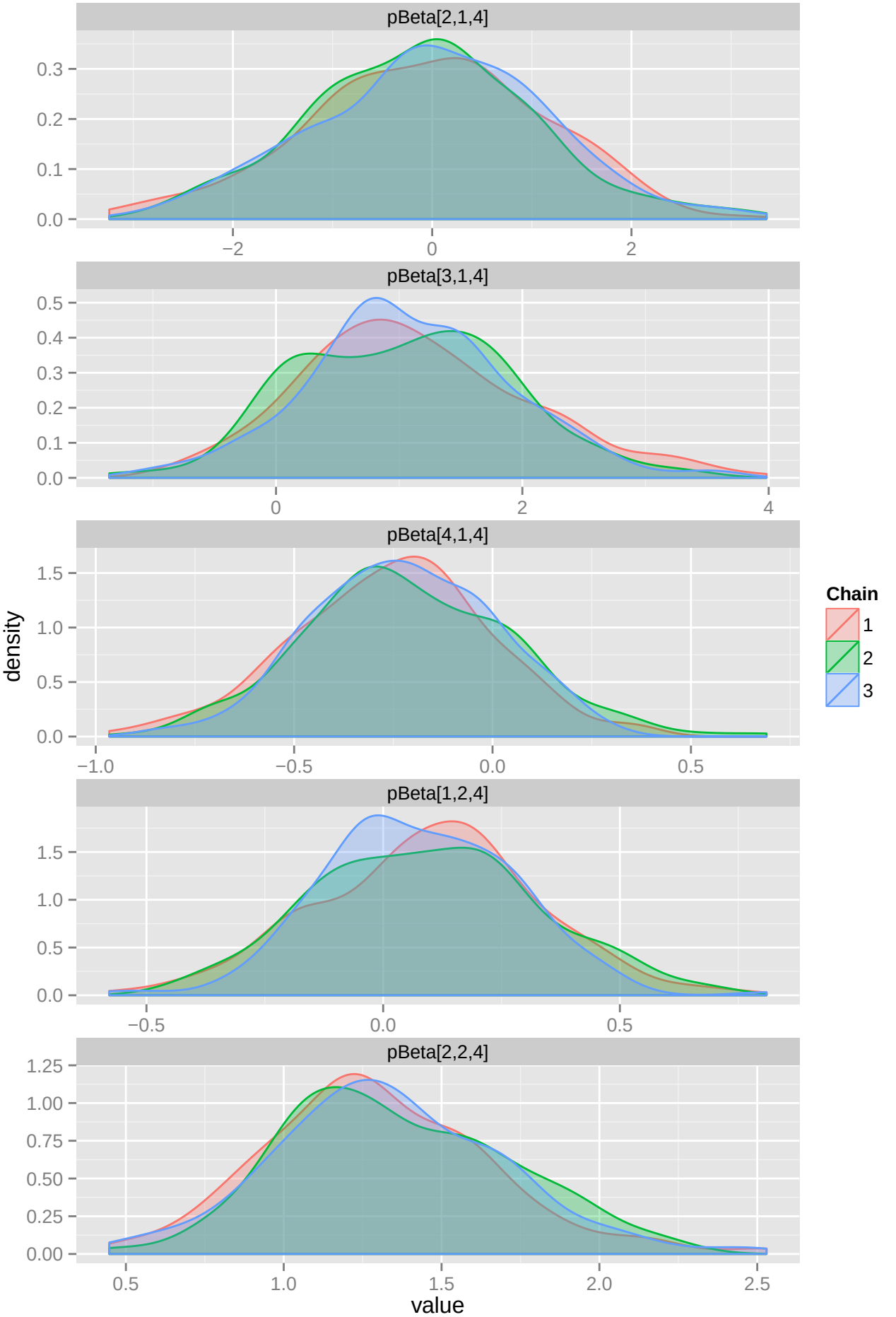
2
3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pBeta[2,2,4]
density
value
Chain
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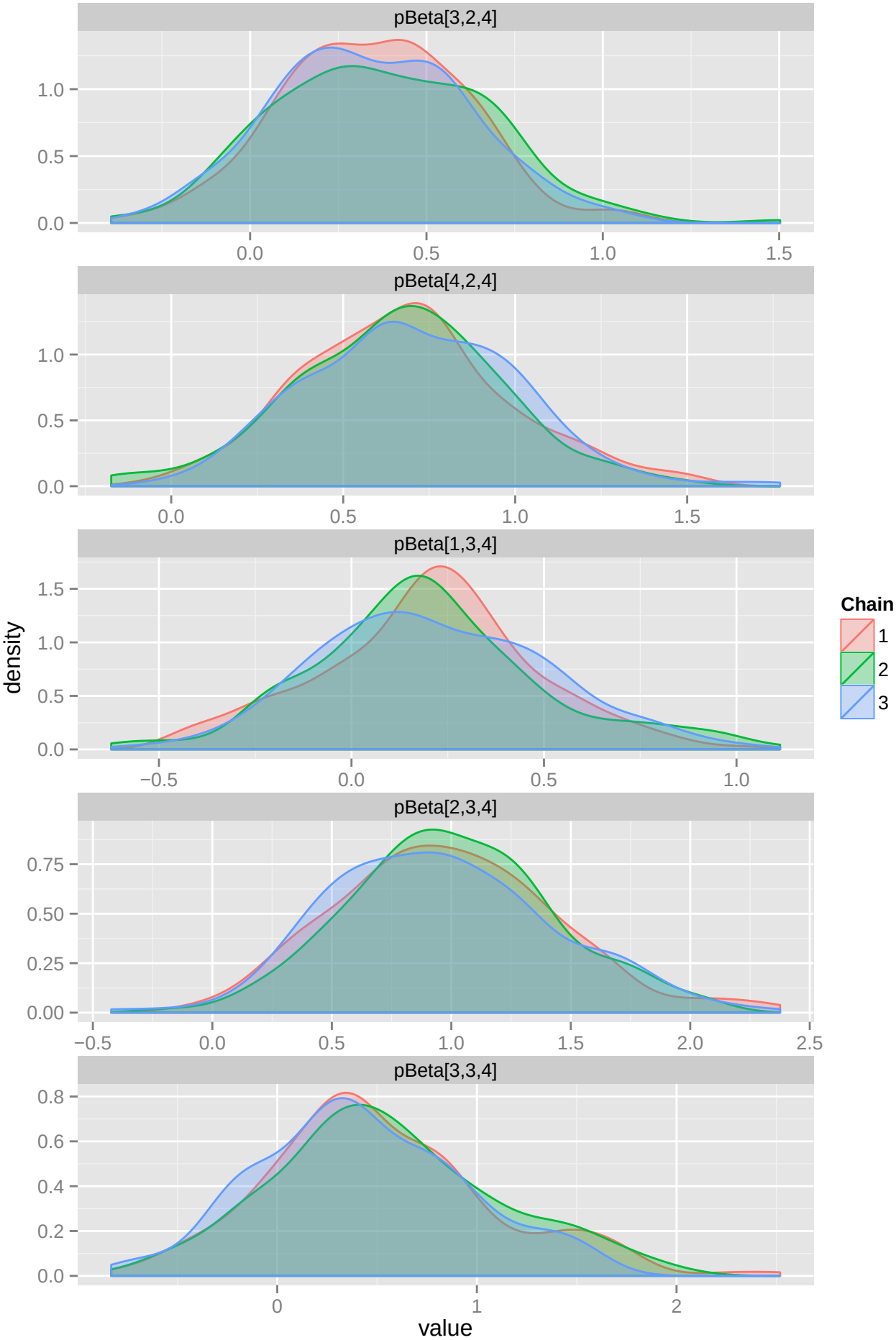
2
3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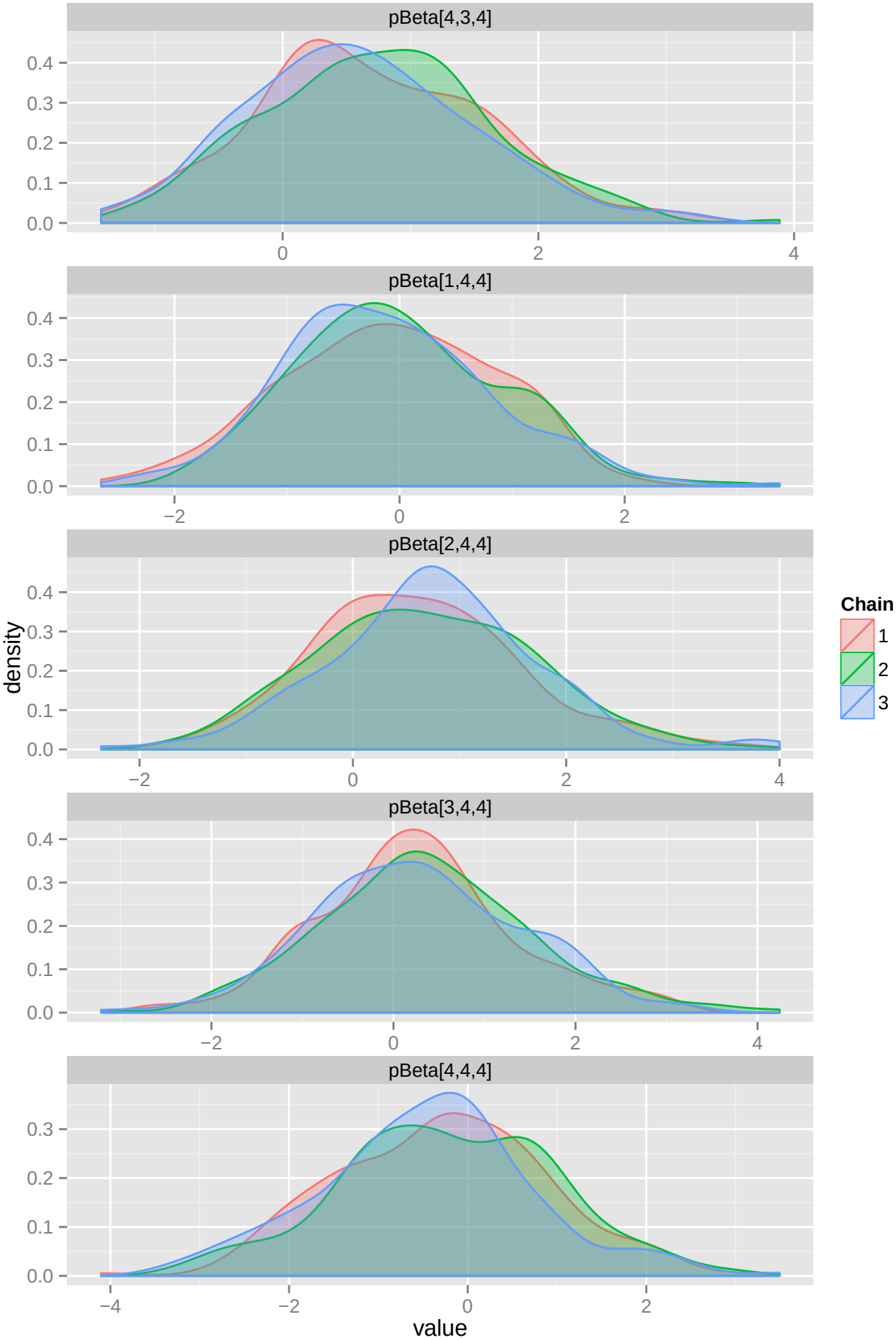
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Chain
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2
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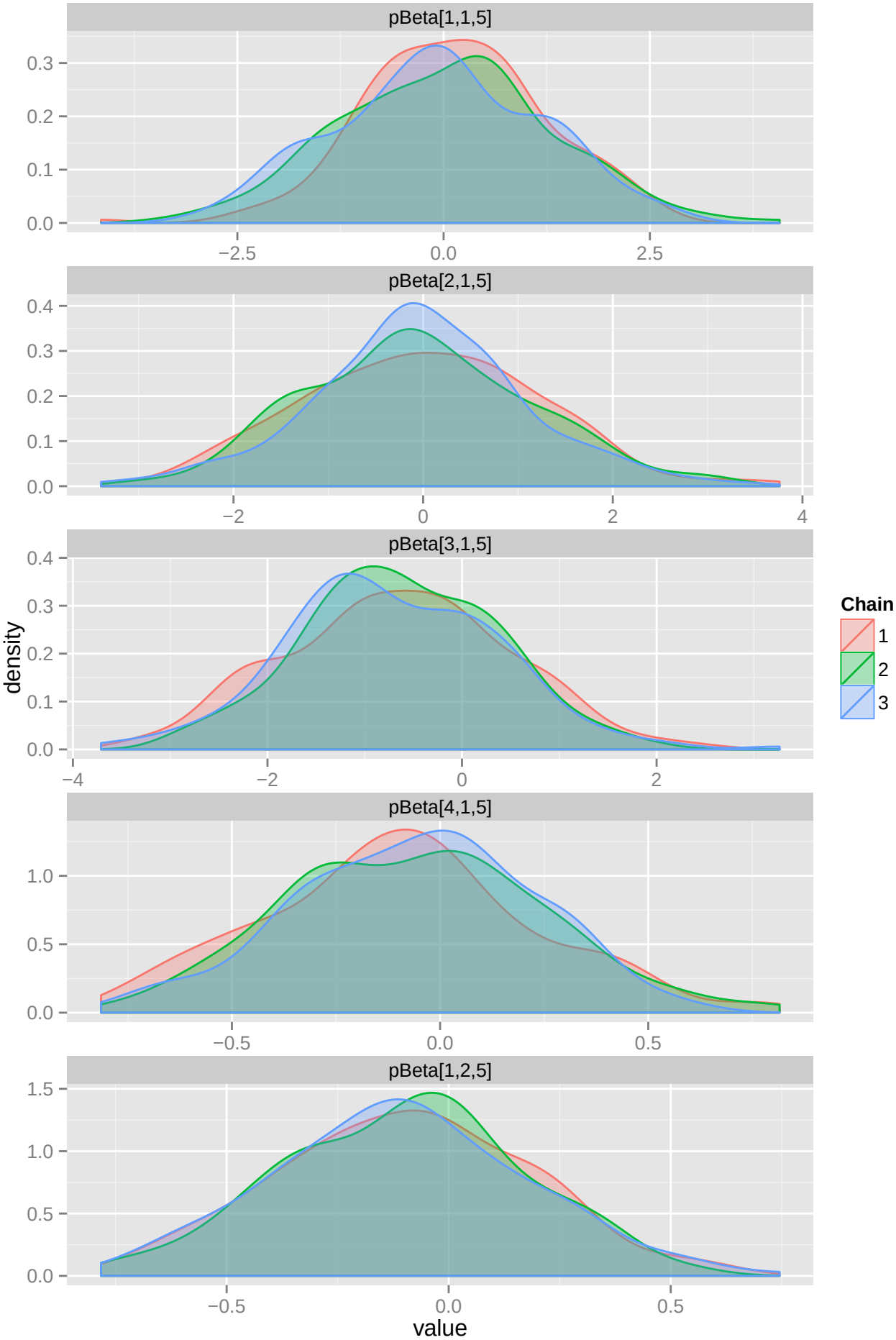
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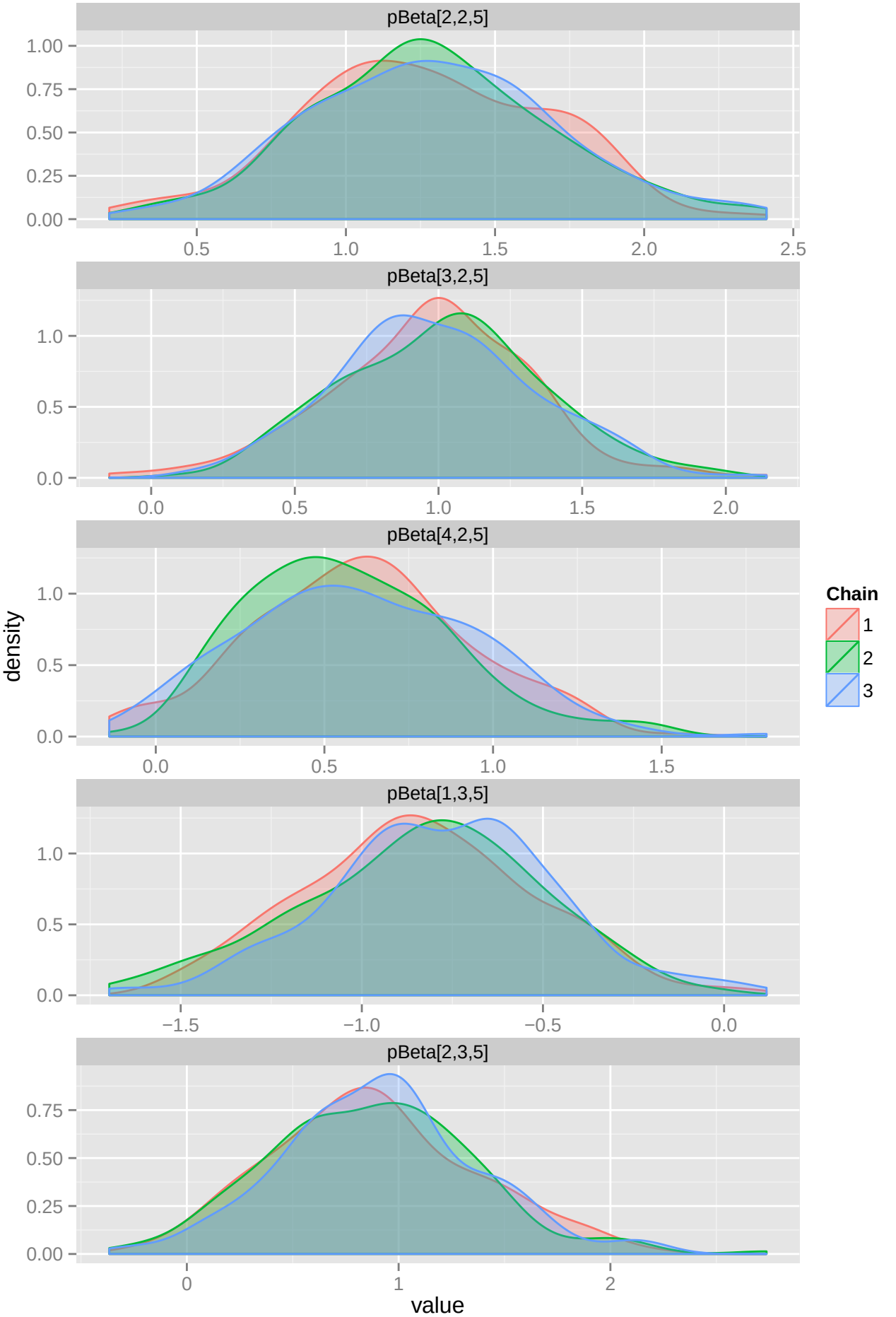
pBeta[3,1,5]
pBeta[4,1,5]
pBeta[1,2,5]
density
value
Chain
1
2
3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density
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Chain
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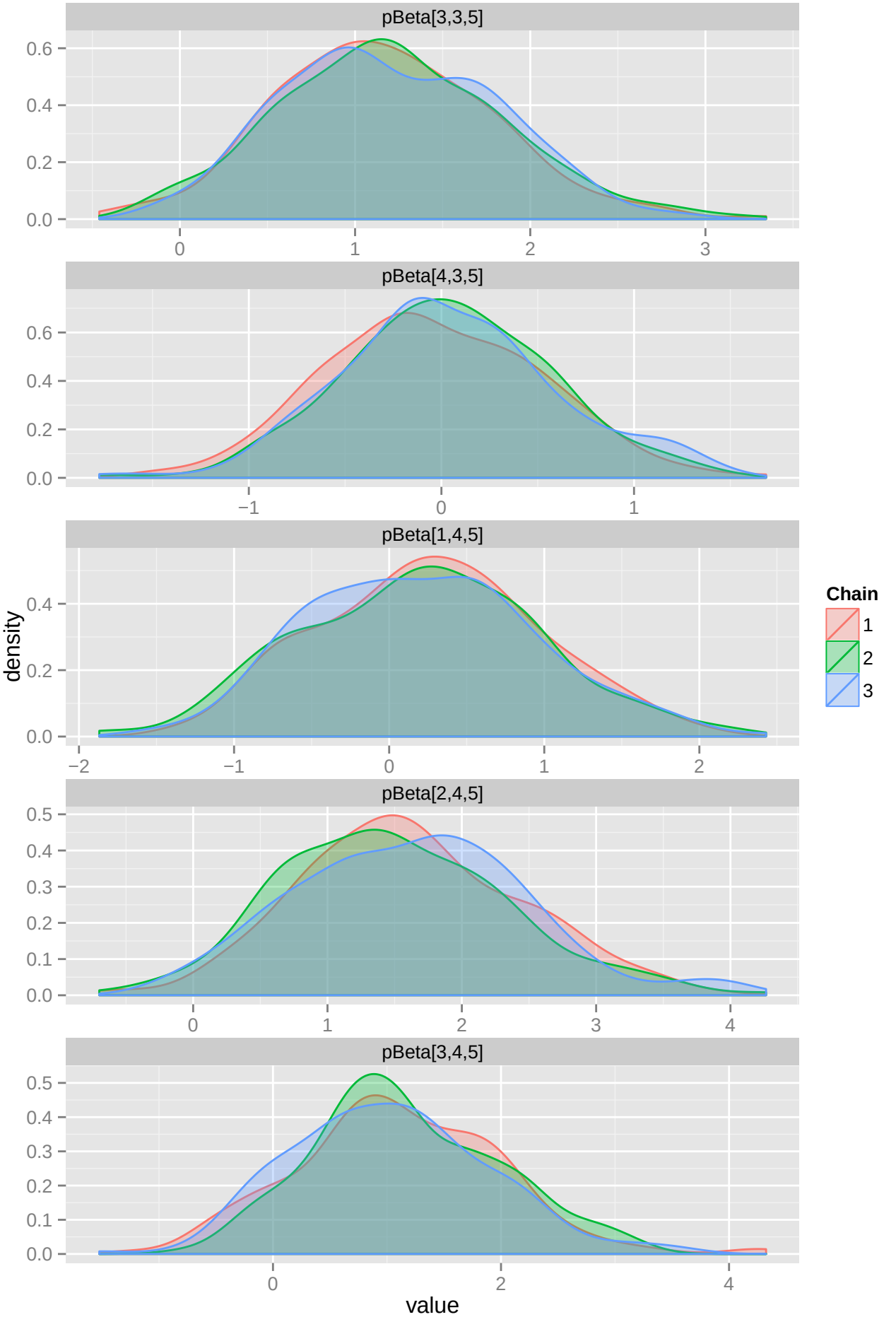
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pBeta[3,4,5]
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Chain
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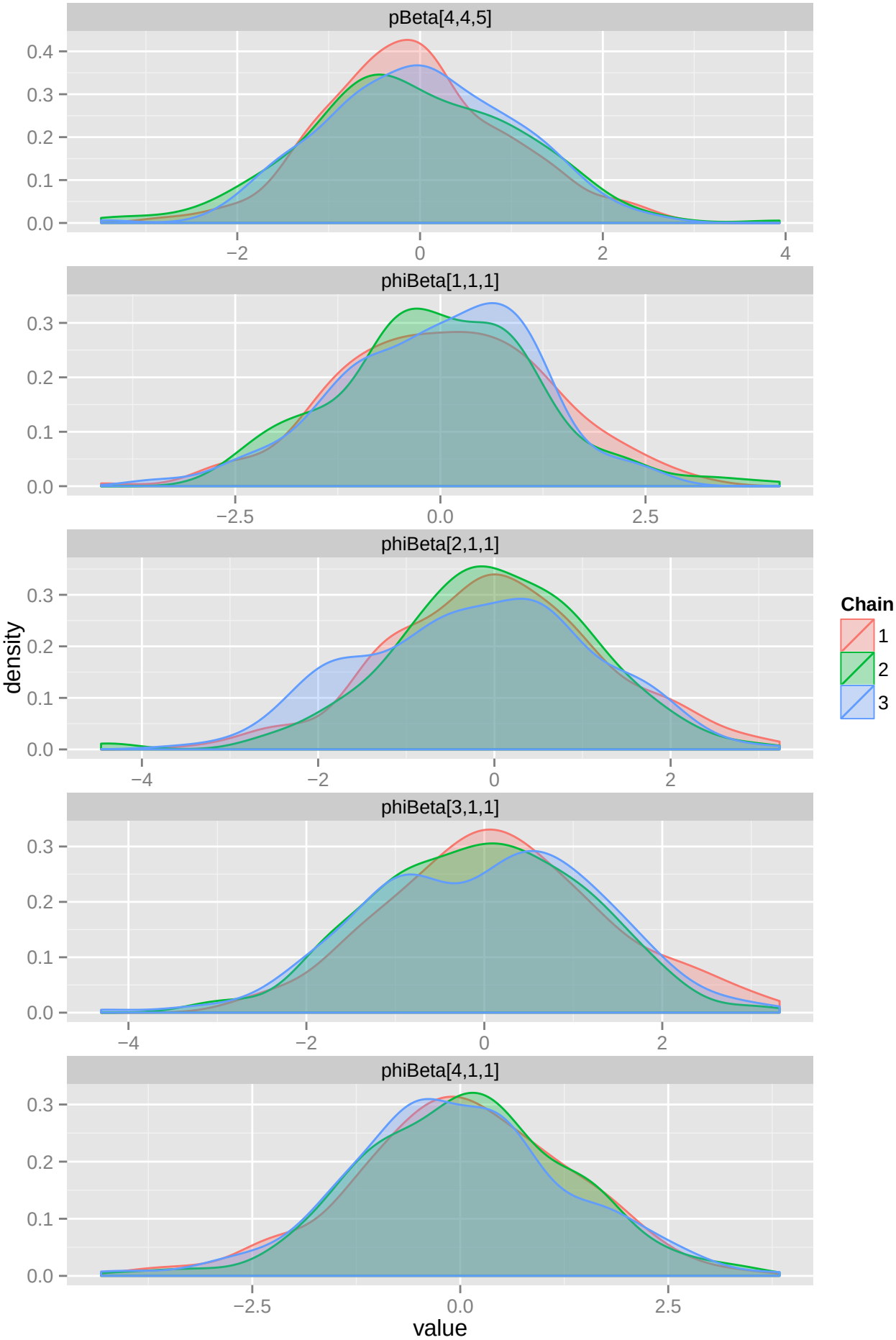
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phiBeta[4,1,1]
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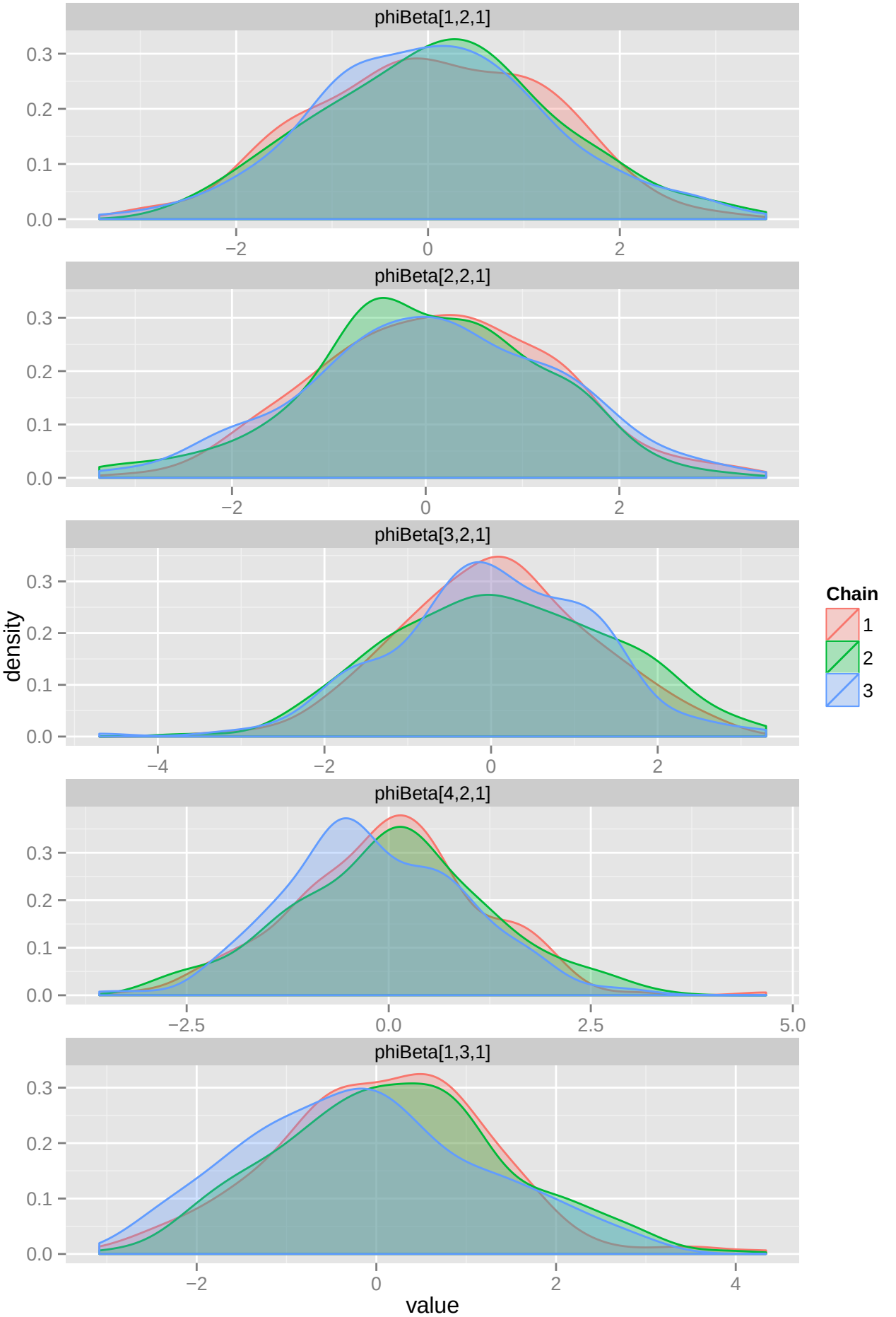
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phiBeta[1,3,1]
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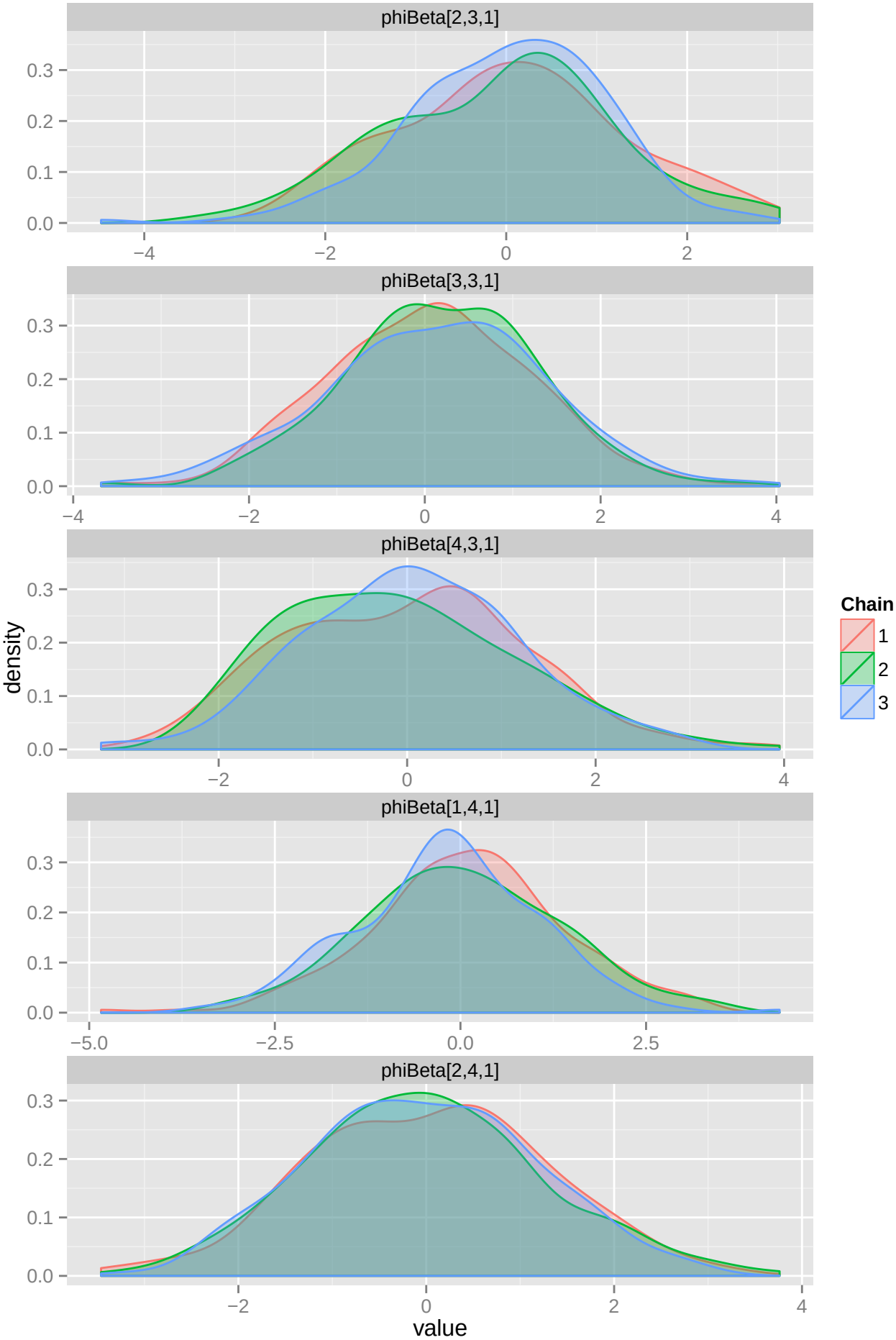
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phiBeta[2,4,1]
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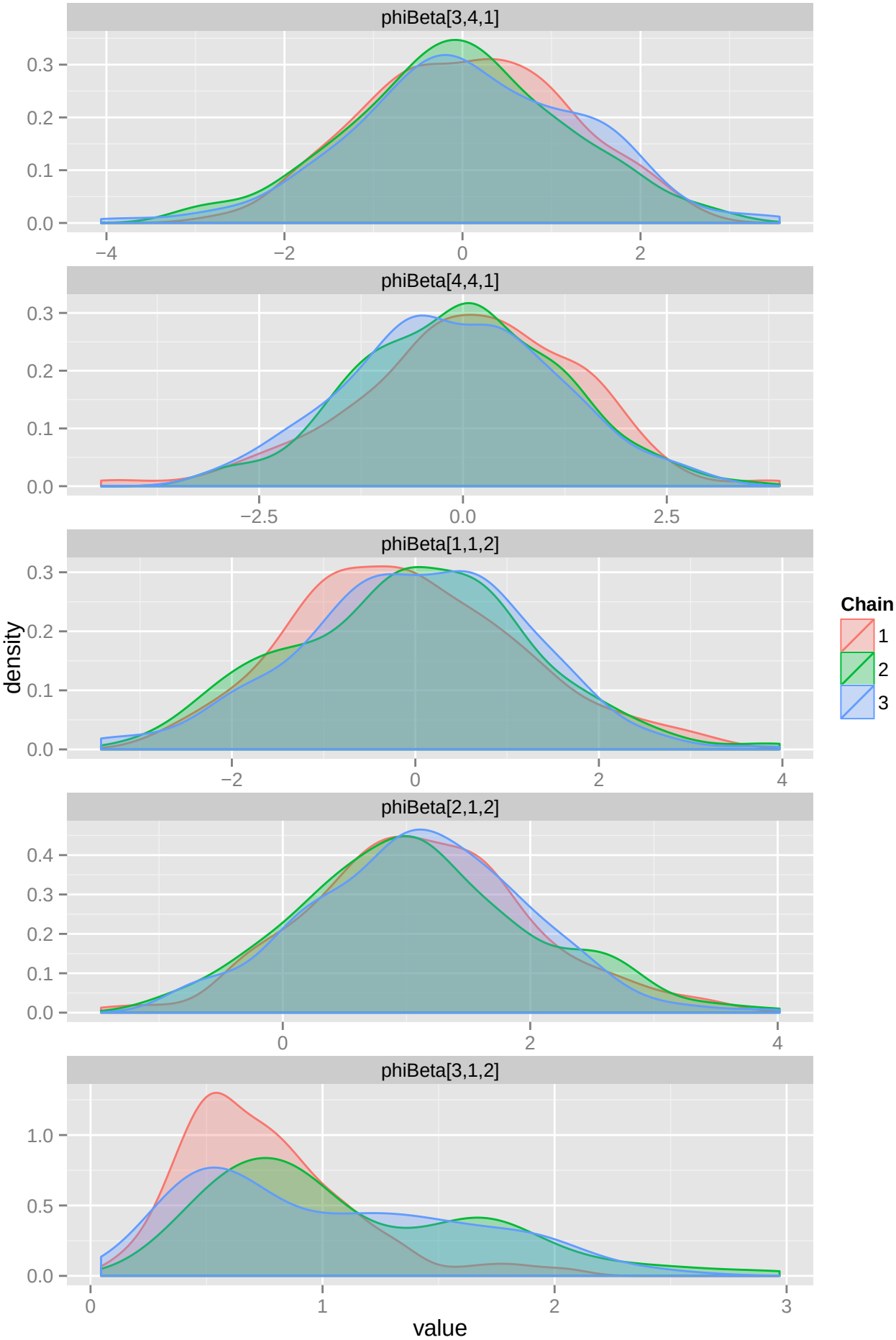
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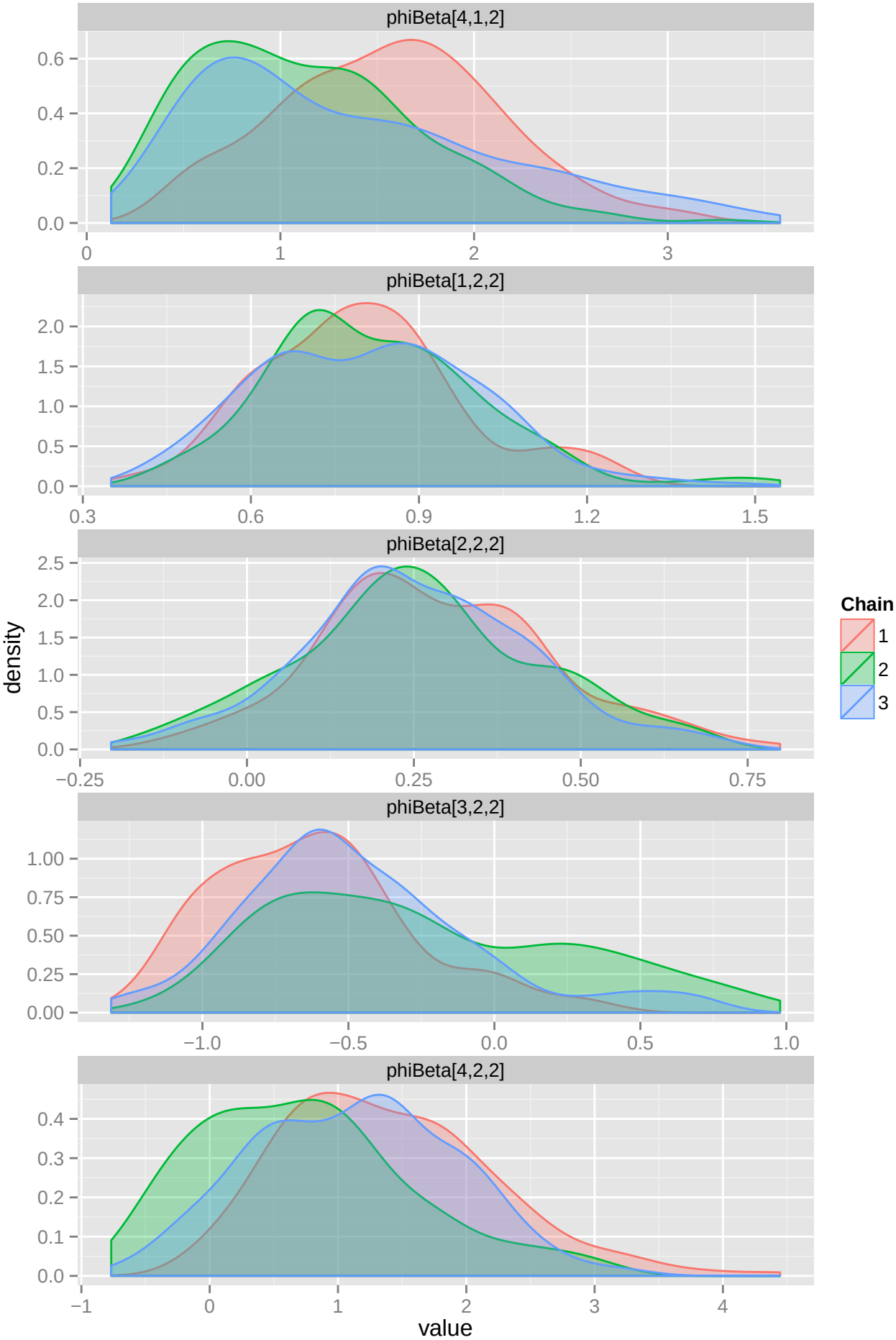
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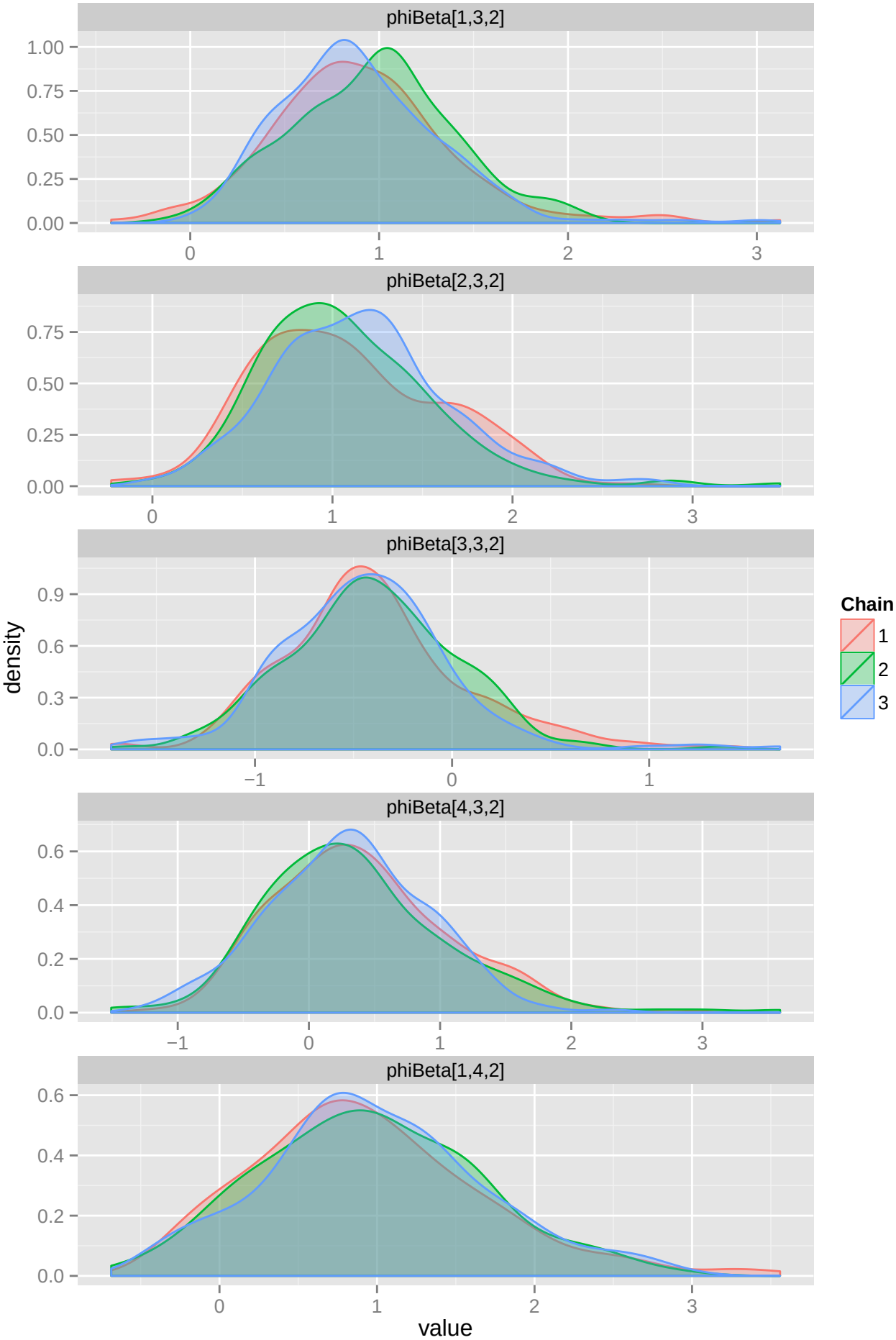
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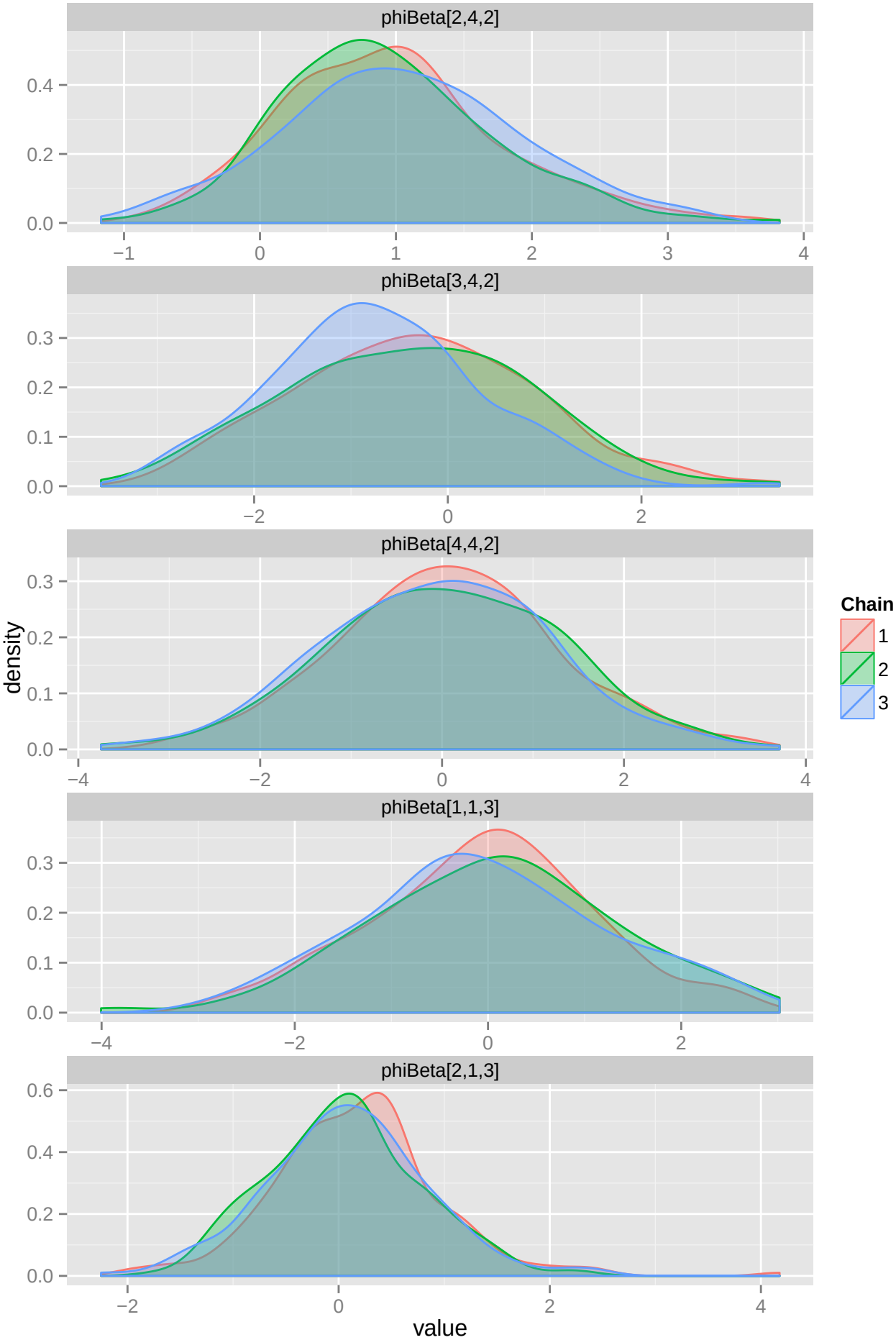
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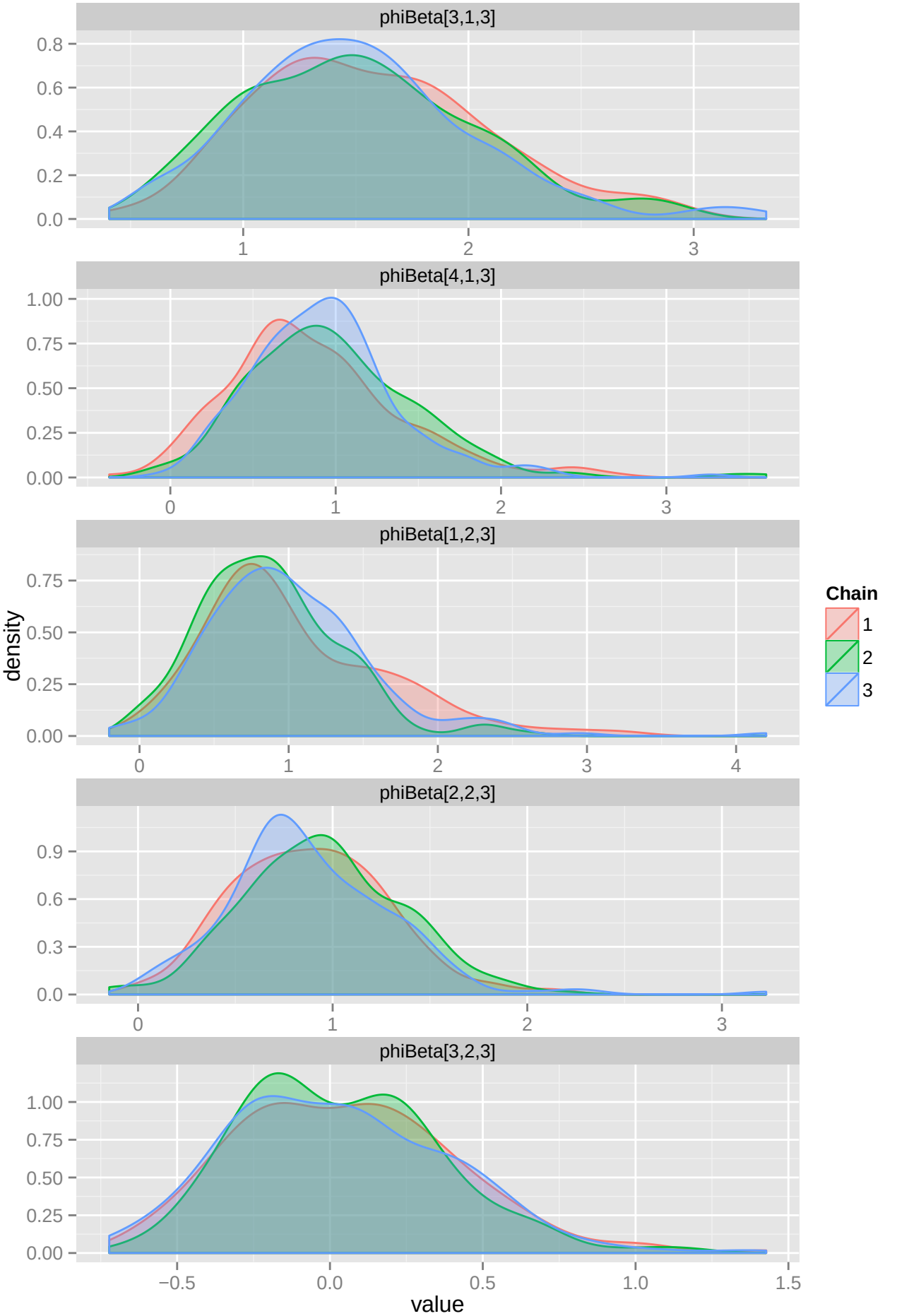
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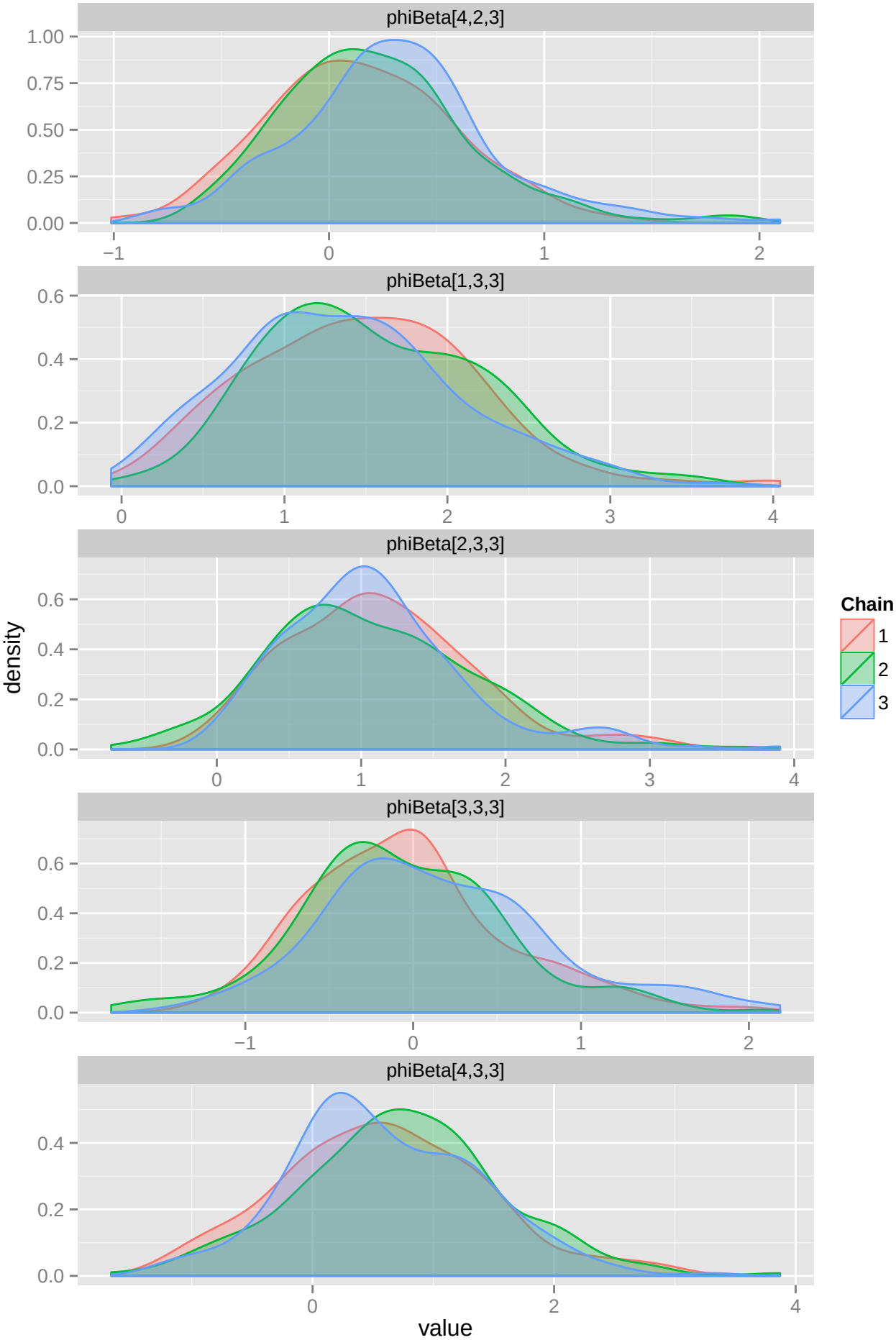
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phiBeta[4,3,3]
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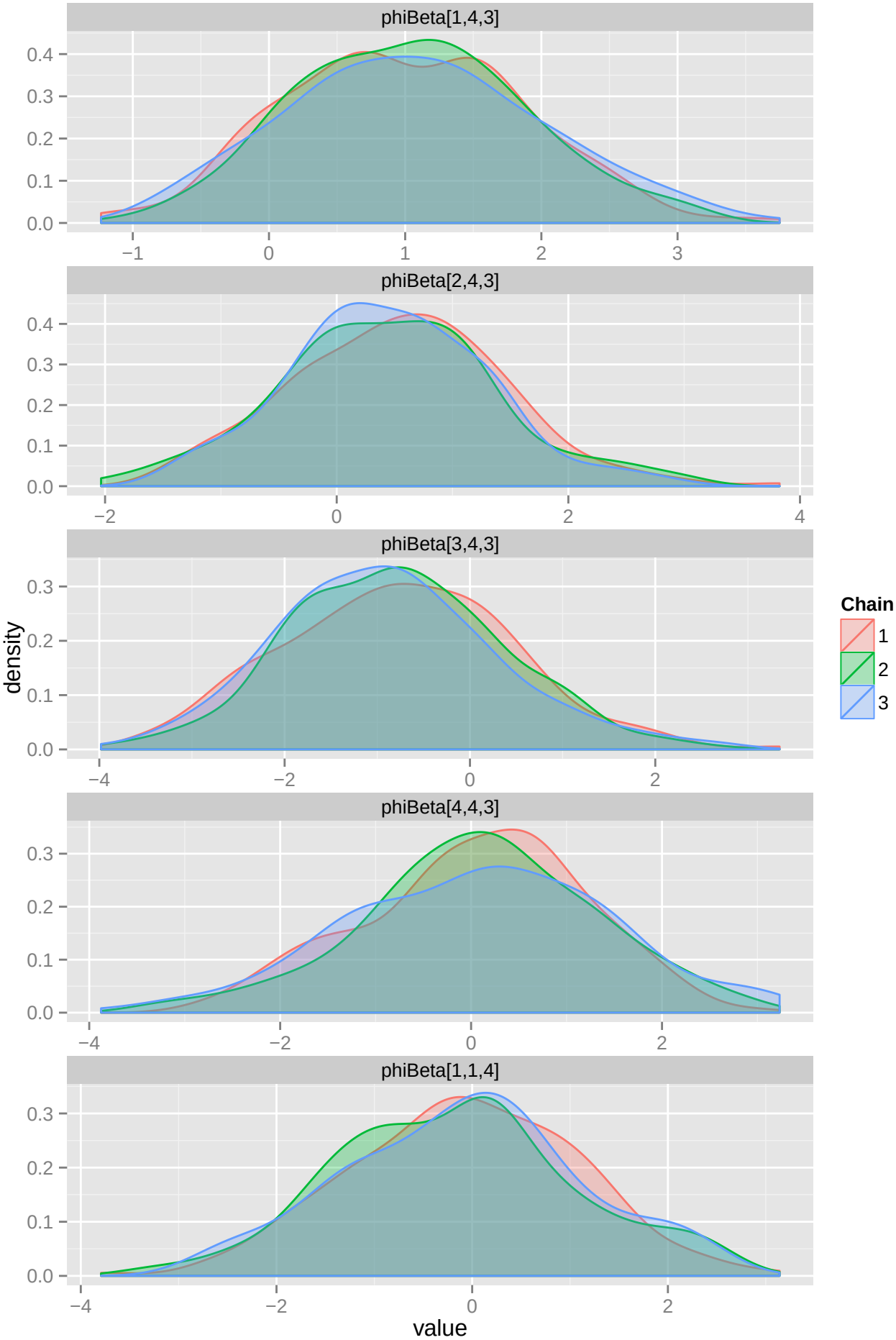
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phiBeta[1,1,4]
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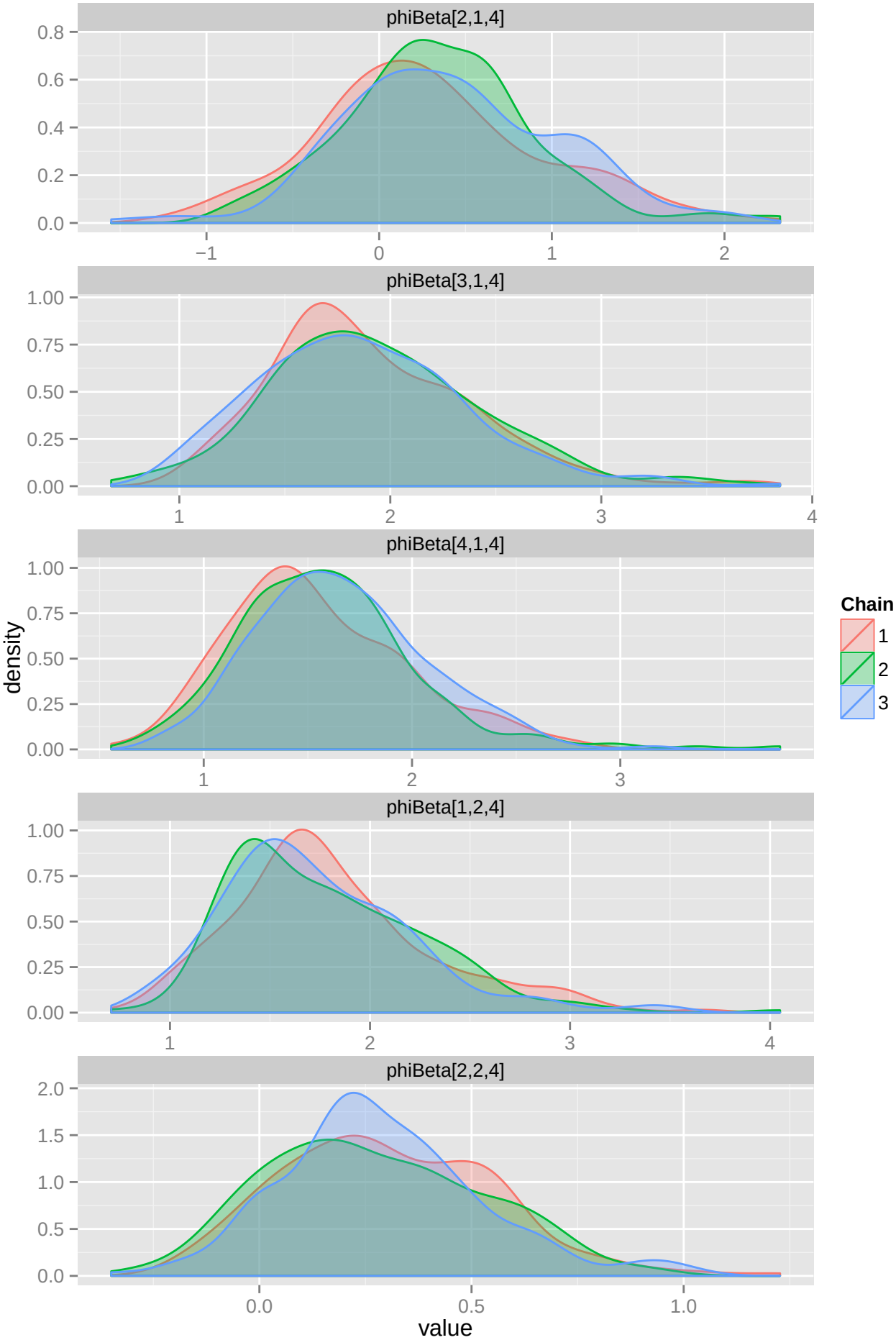
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phiBeta[2,2,4]
density
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2
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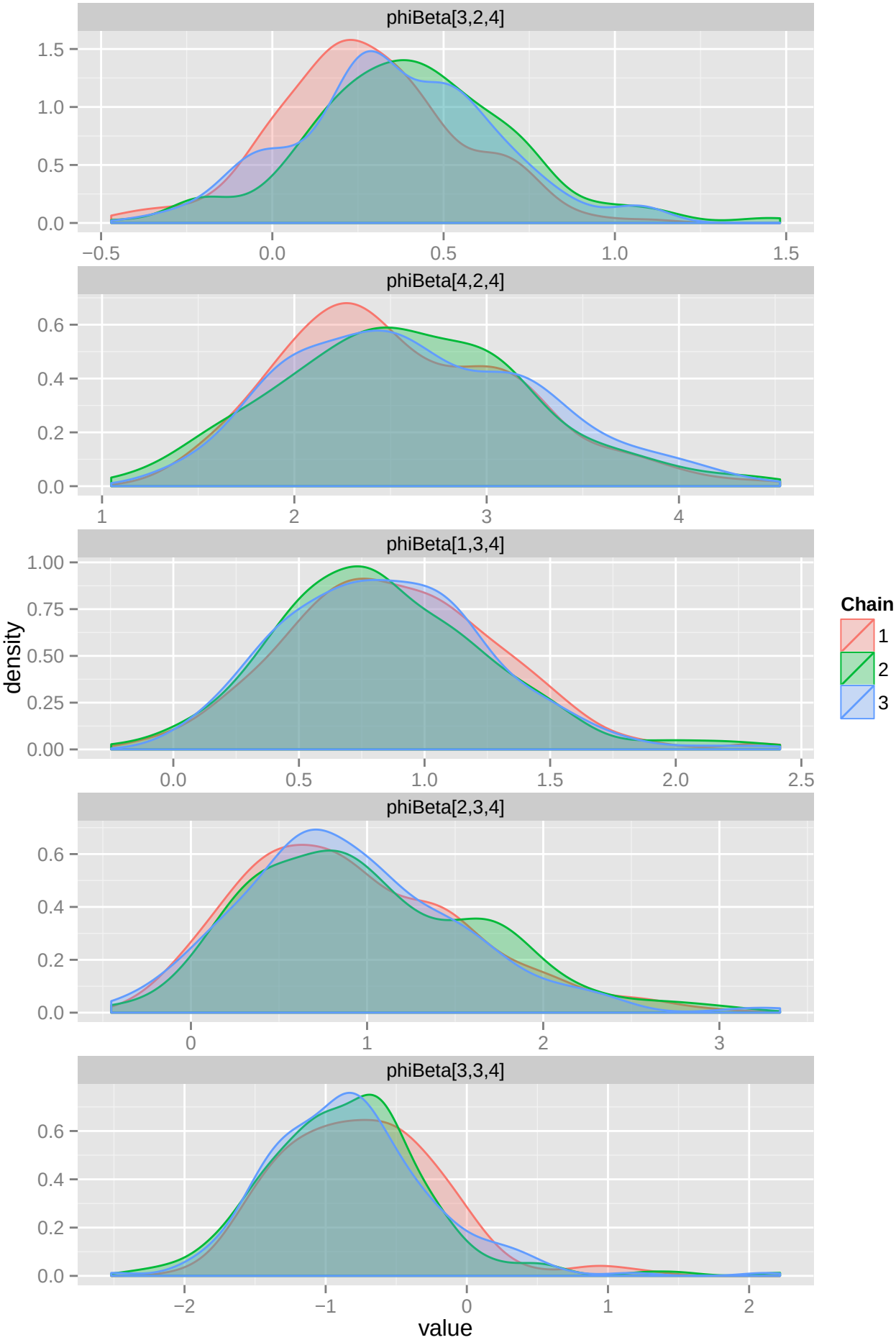
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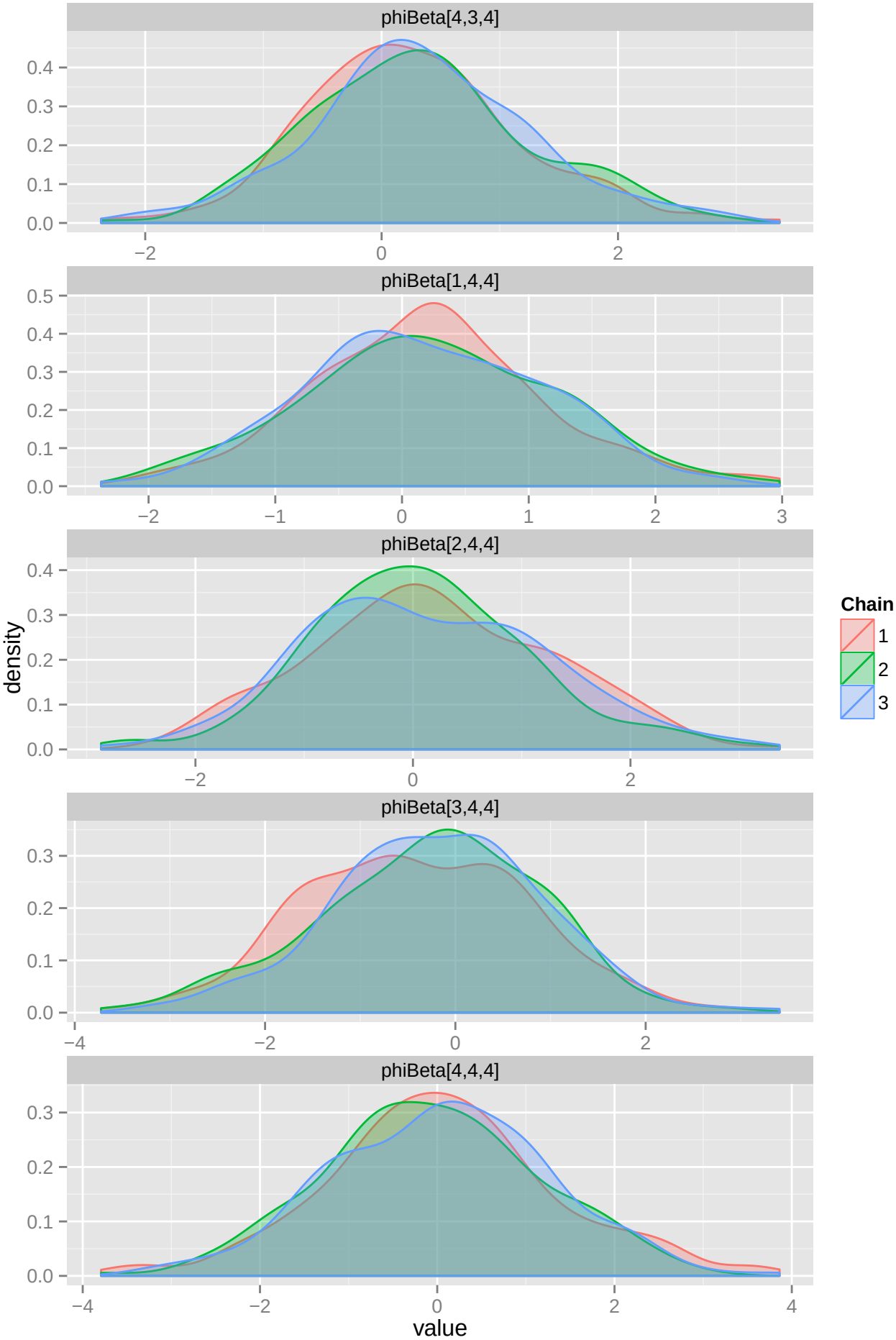
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phiBeta[3,4,4]
phiBeta[4,4,4]
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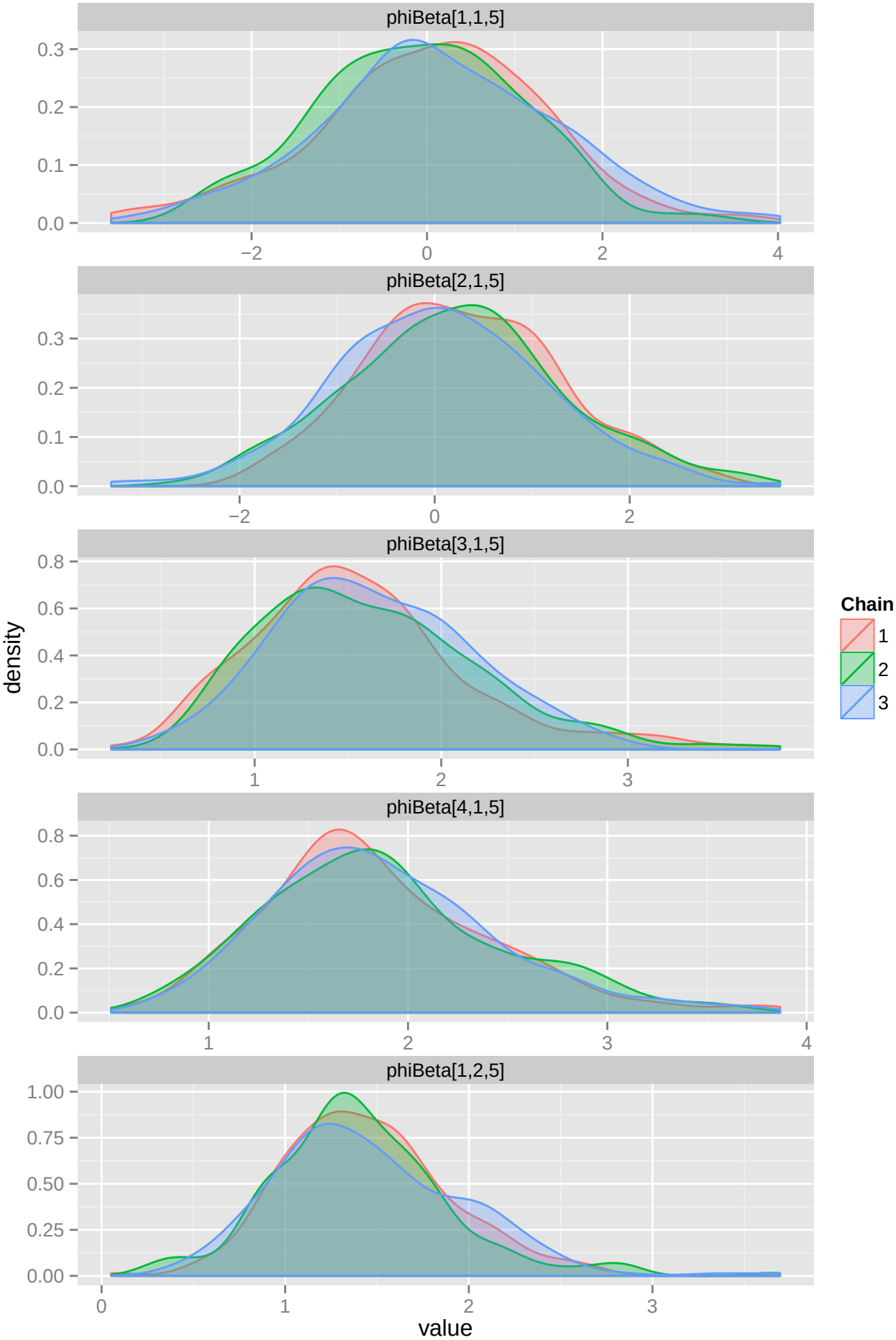
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phiBeta[3,1,5]
phiBeta[4,1,5]
phiBeta[1,2,5]
density
value
Chain
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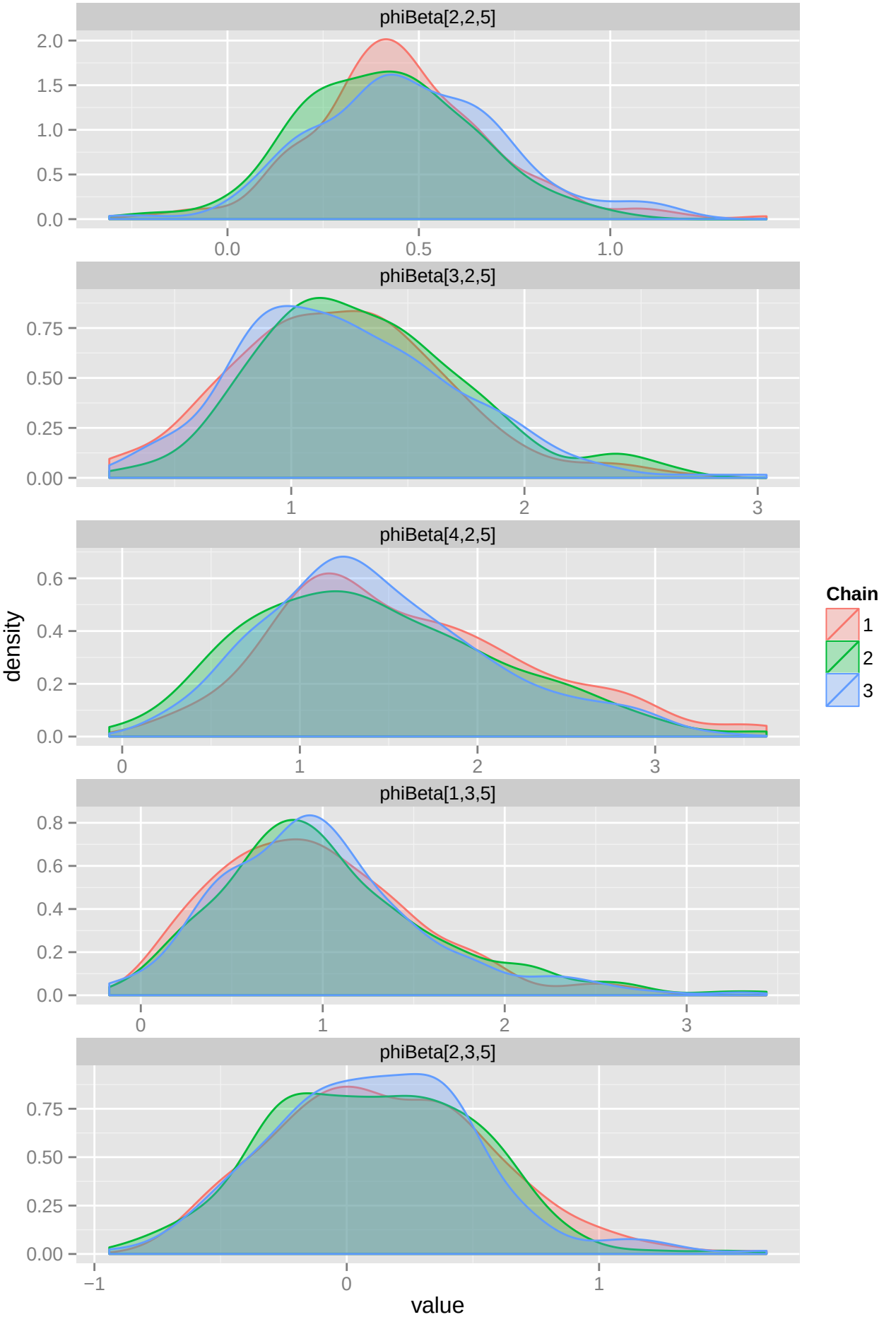
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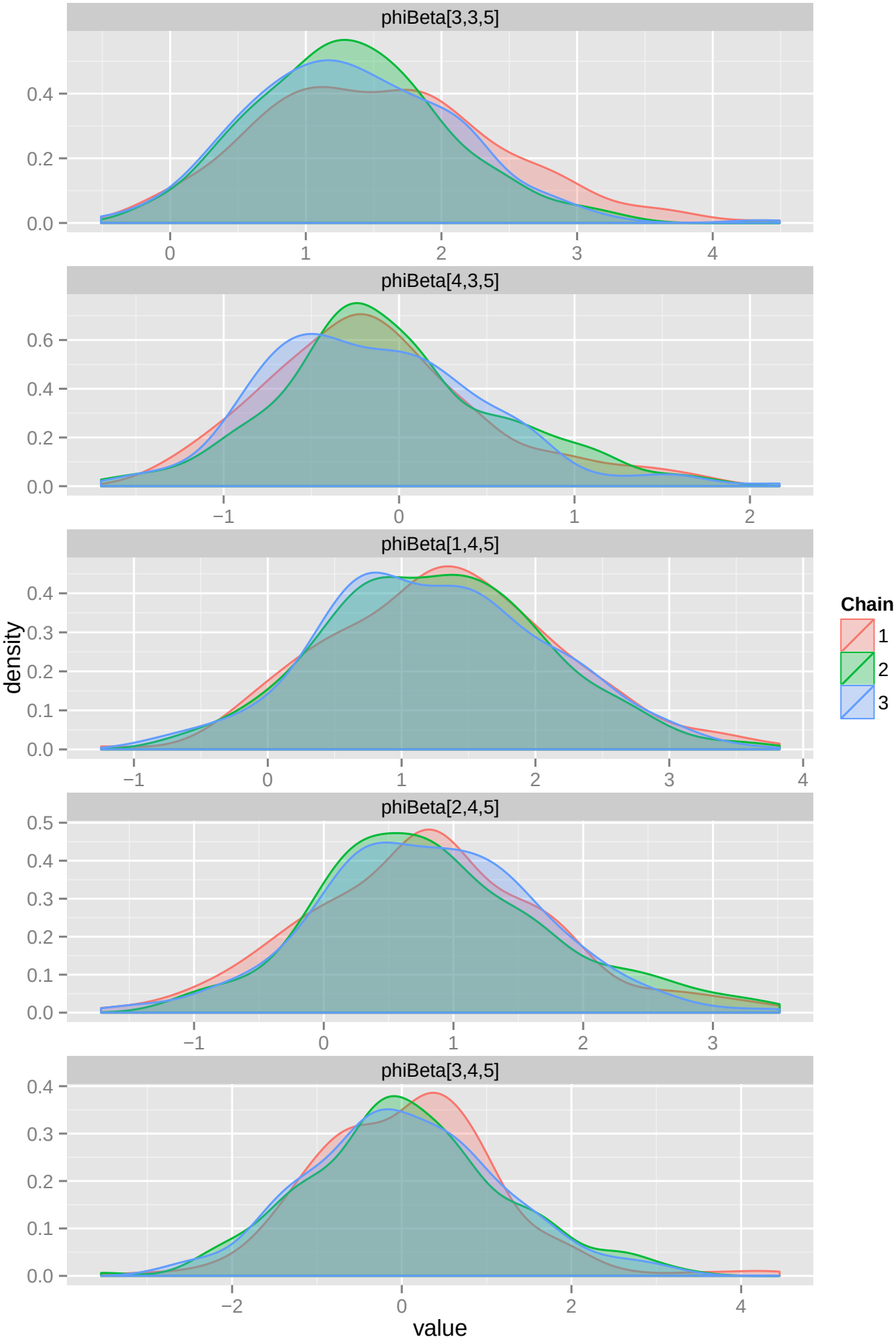
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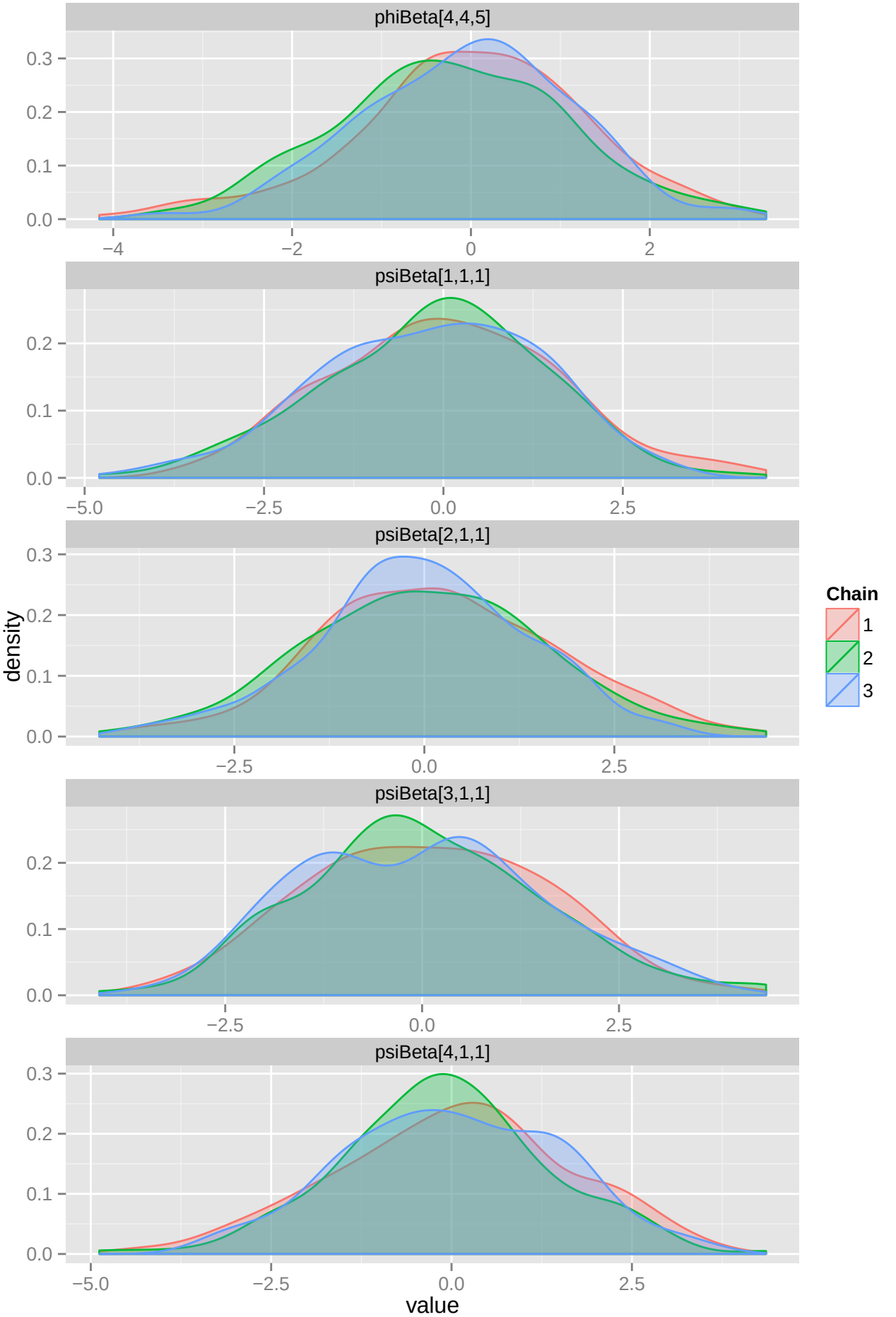
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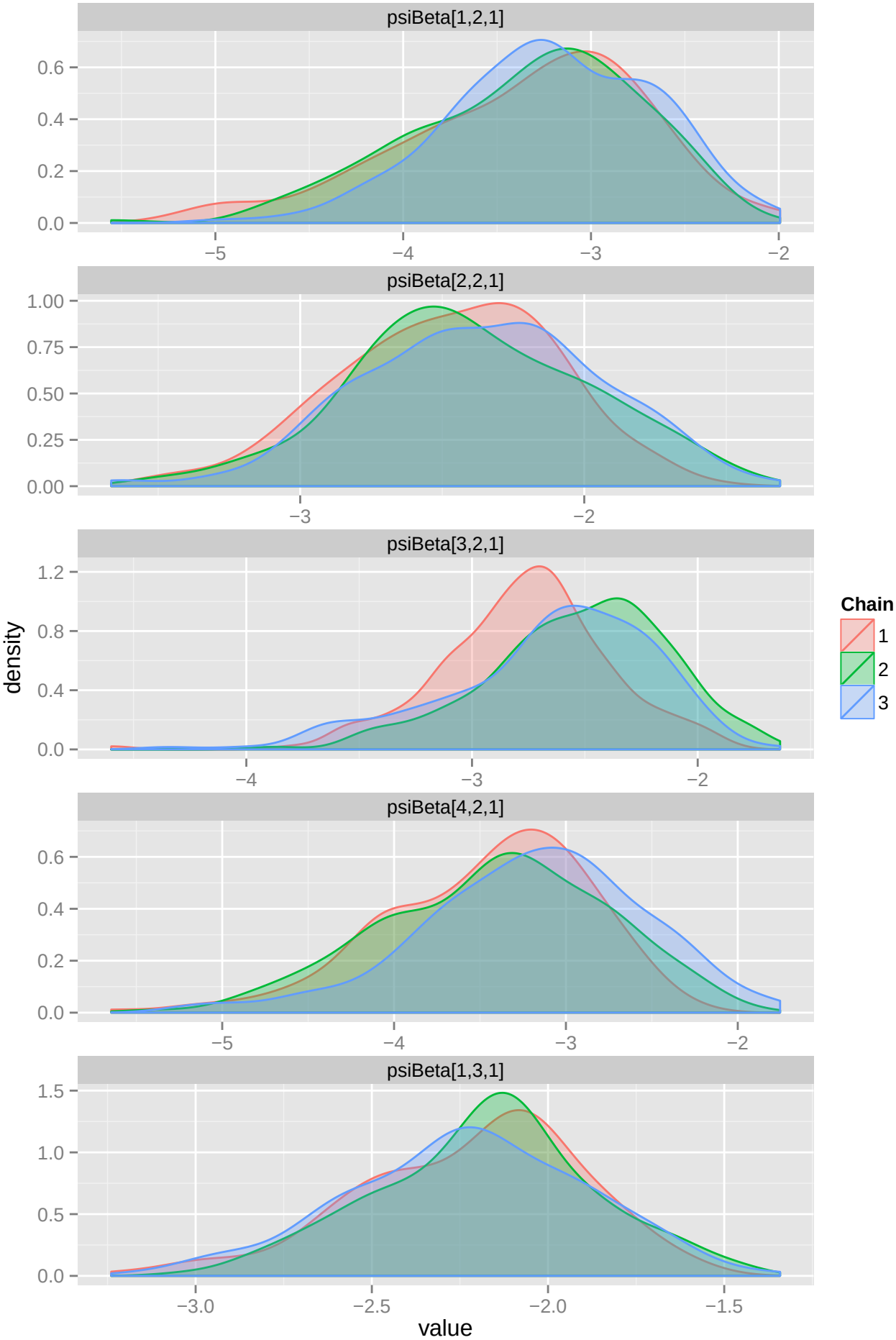
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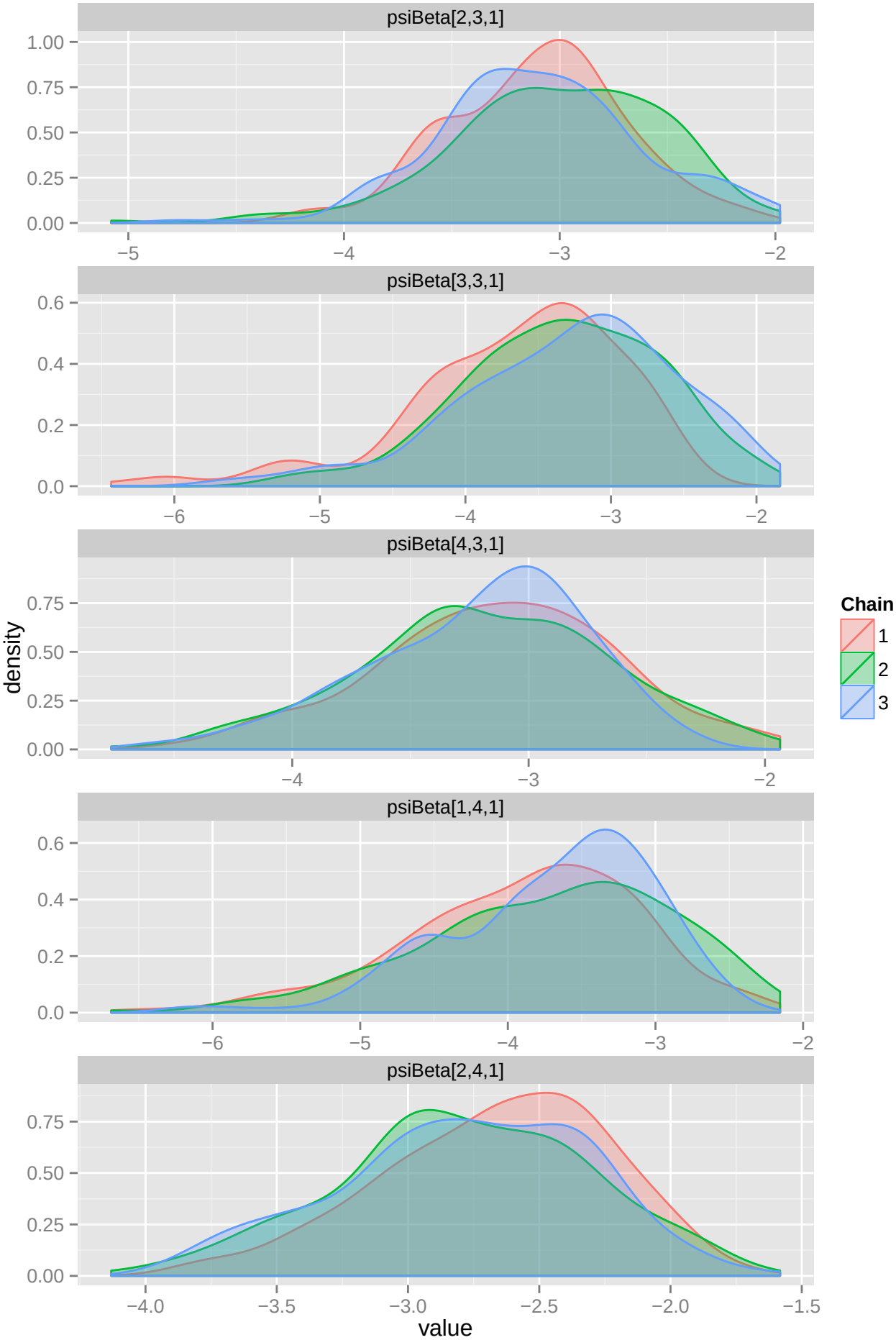
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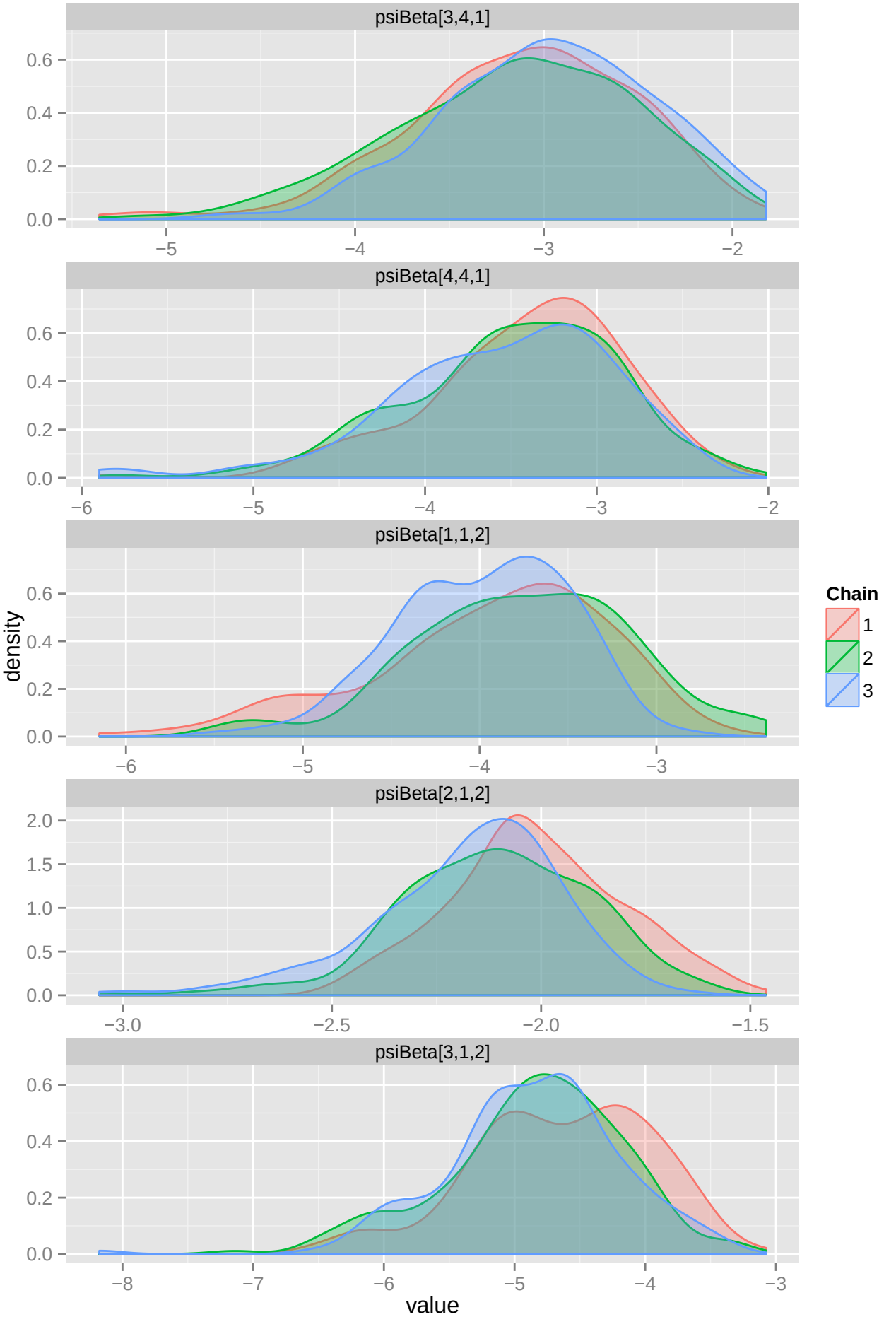
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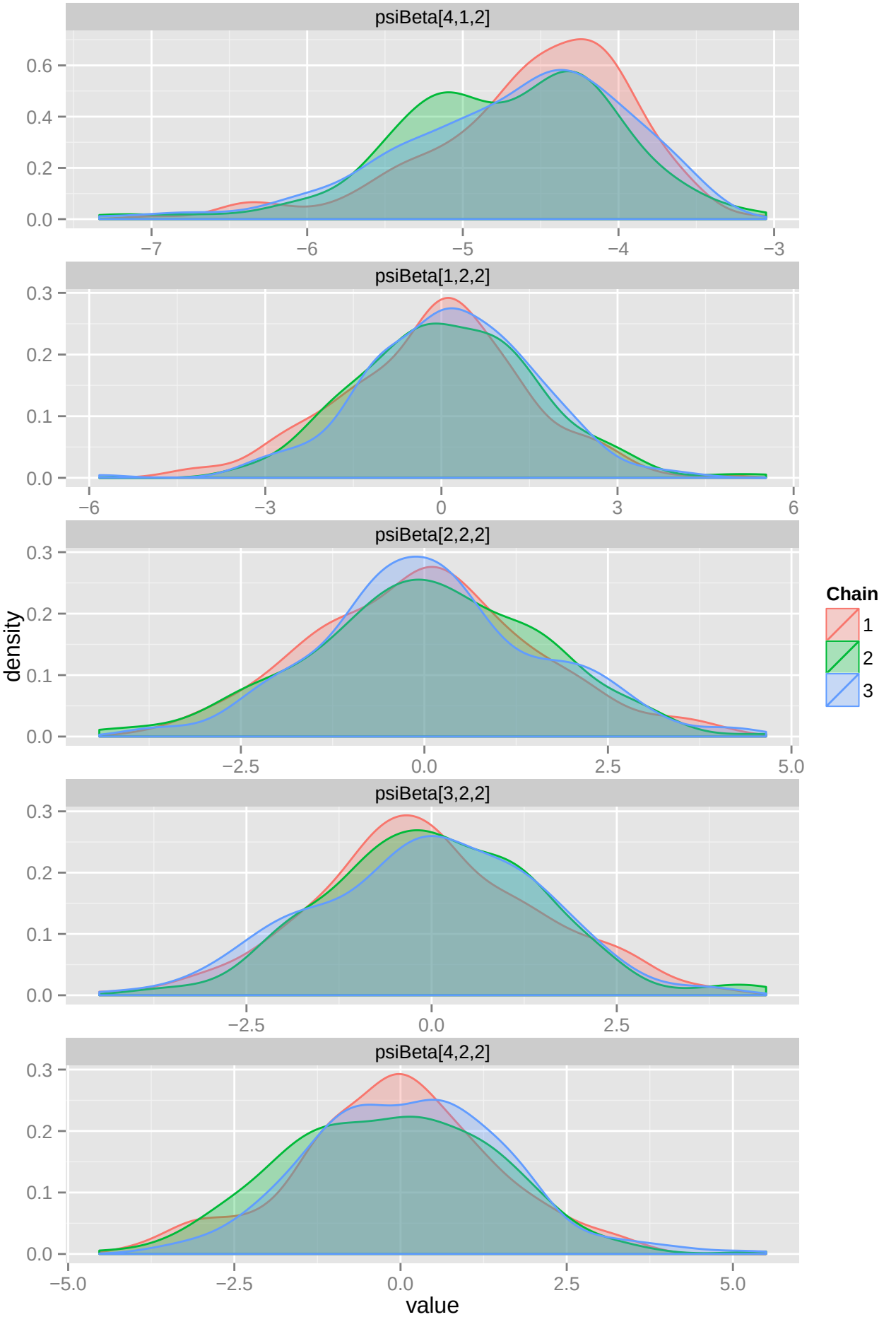
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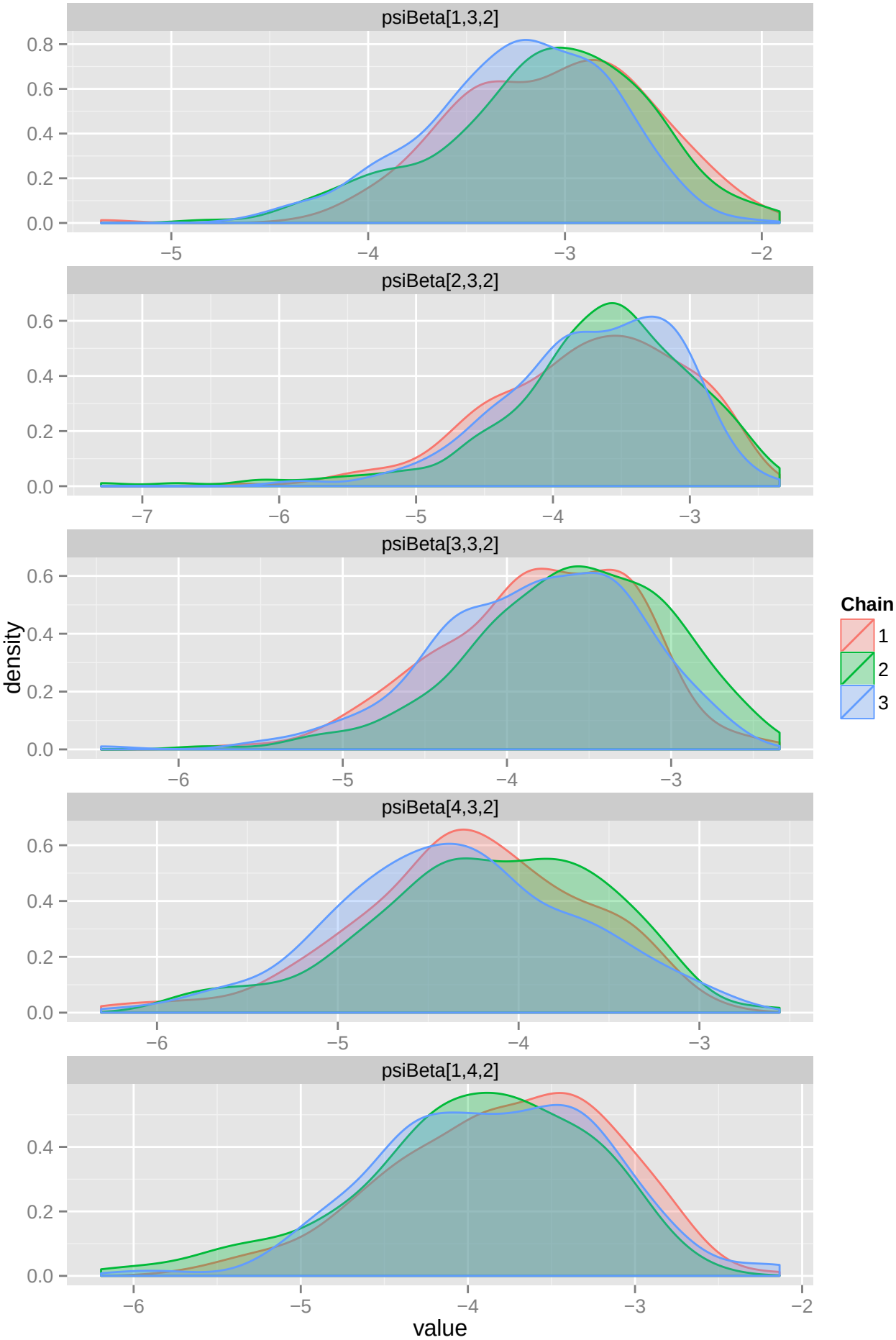
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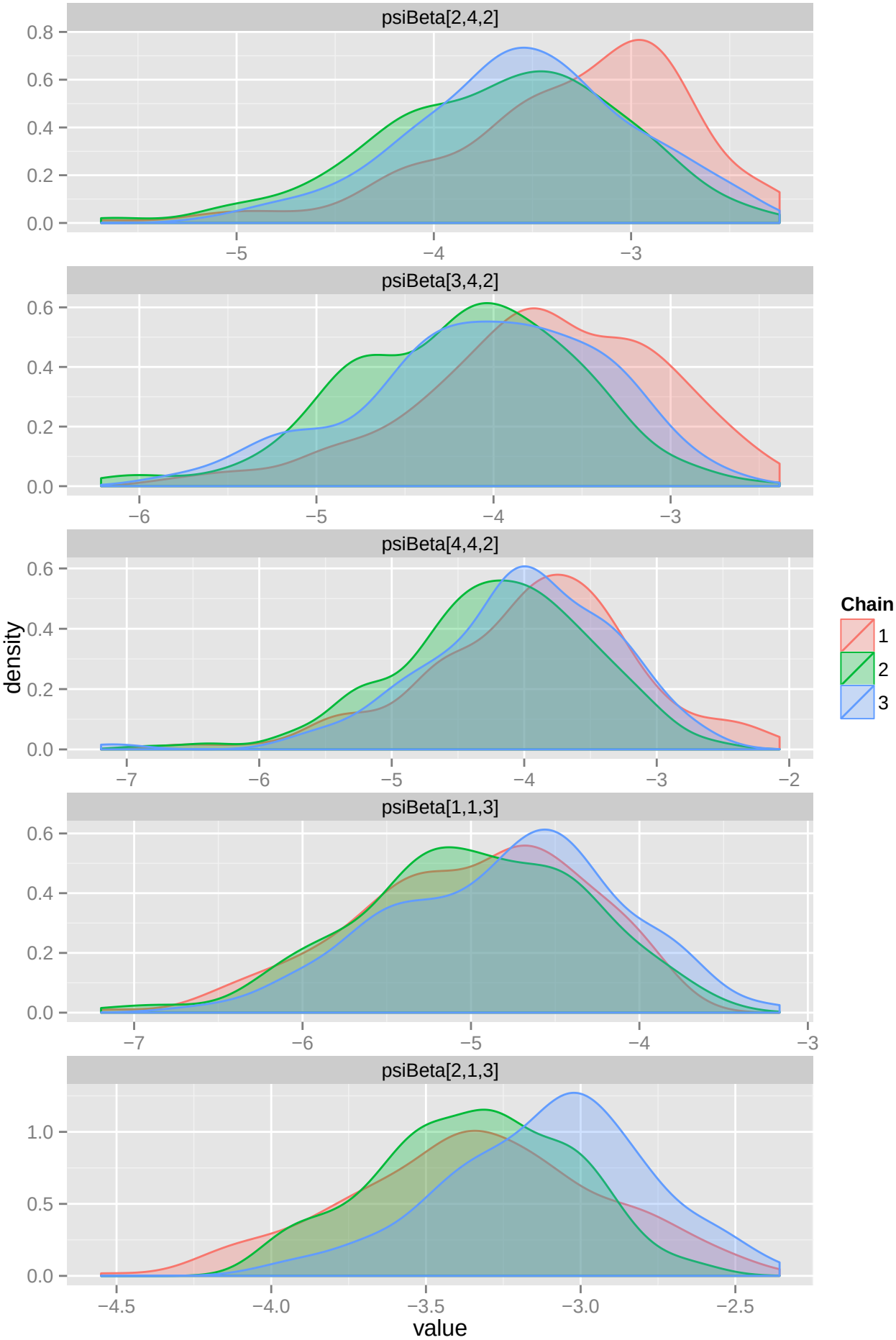
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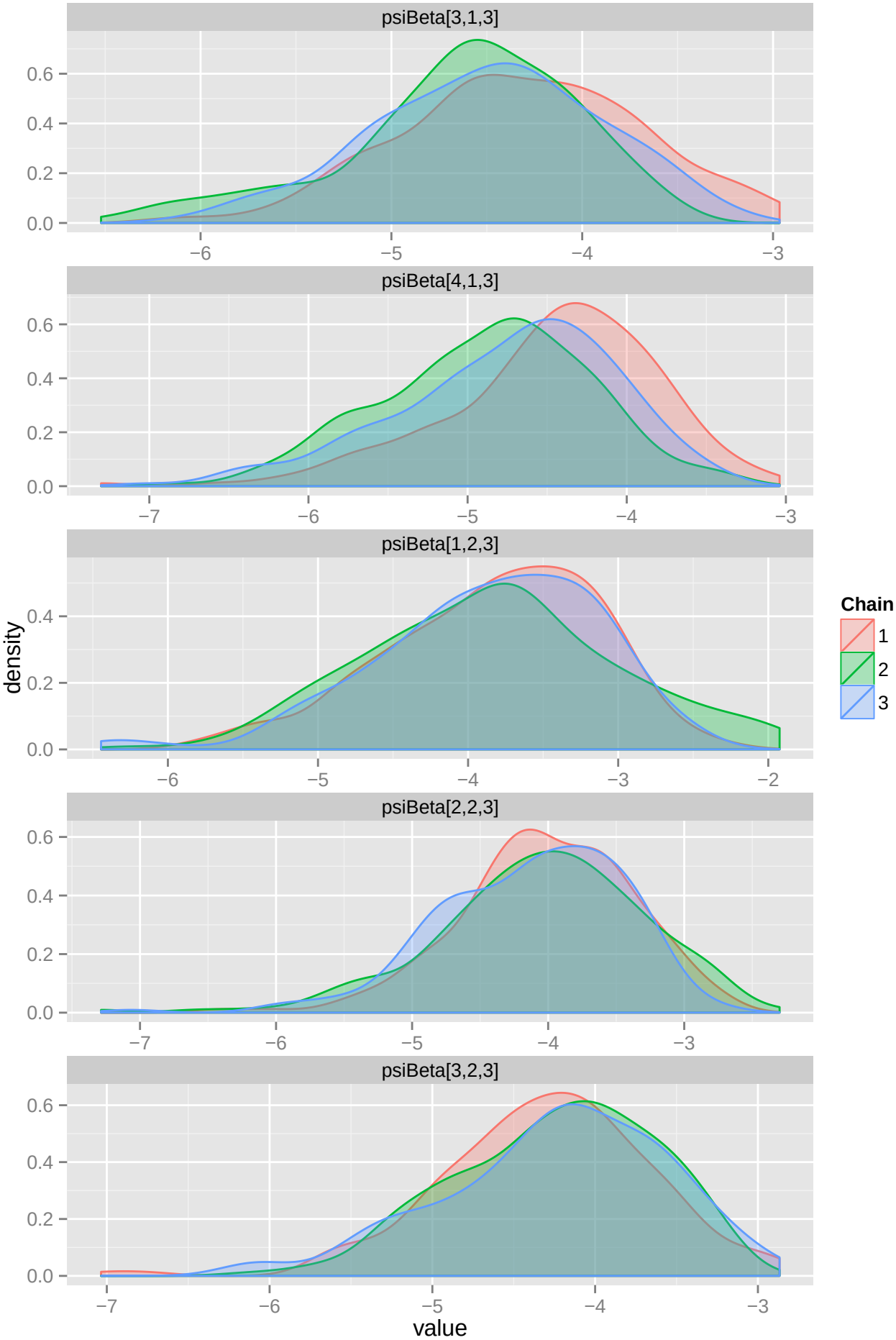
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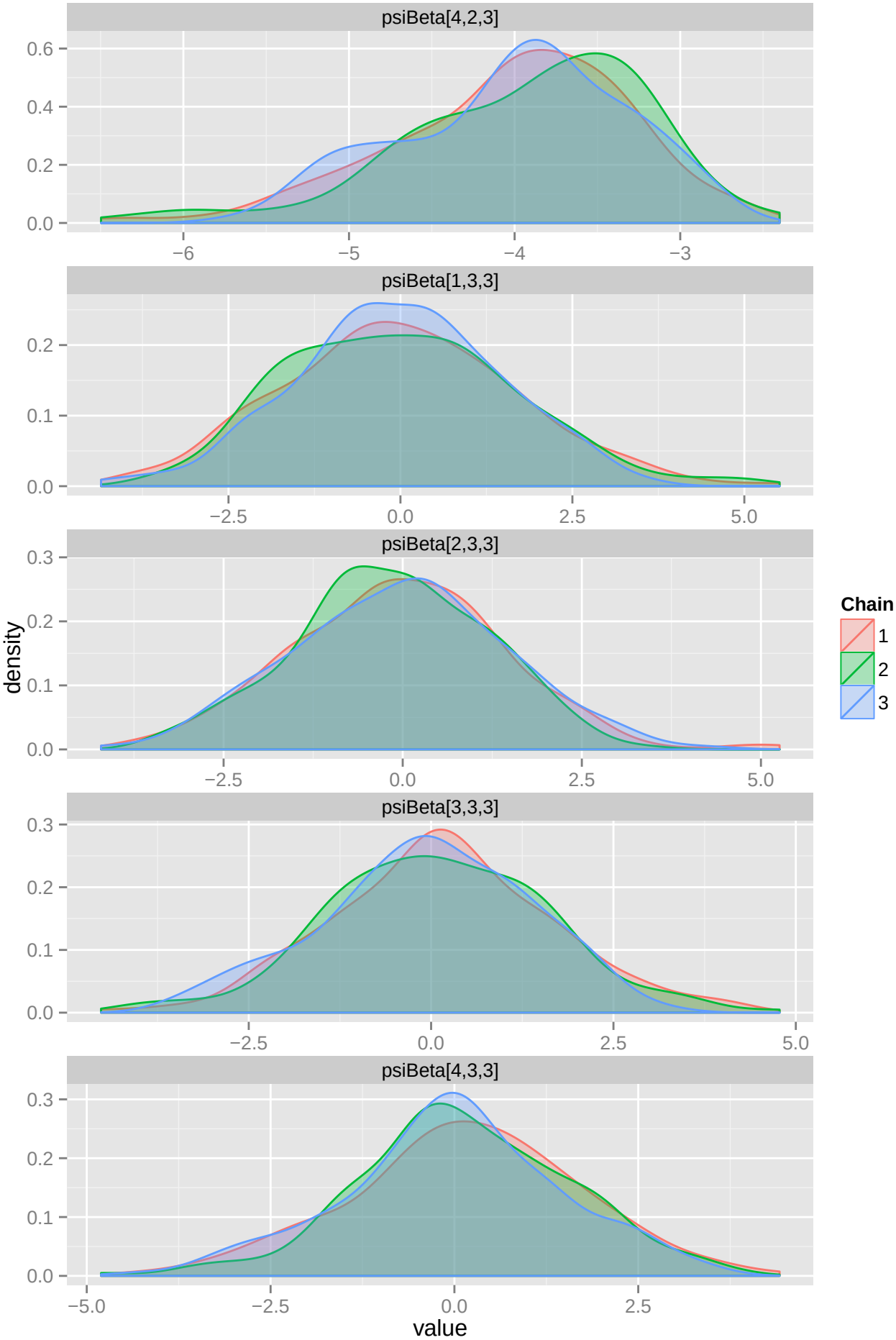
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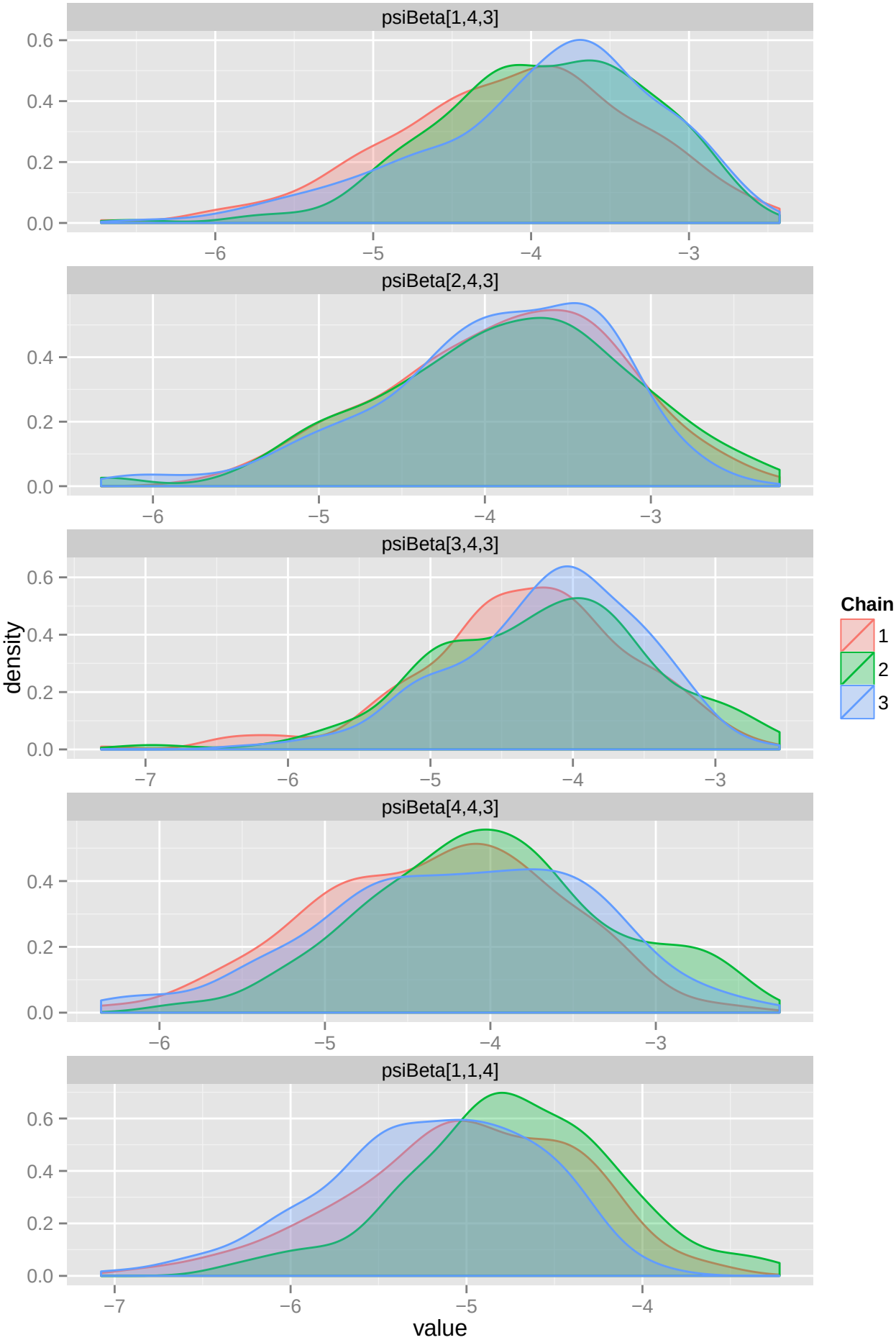
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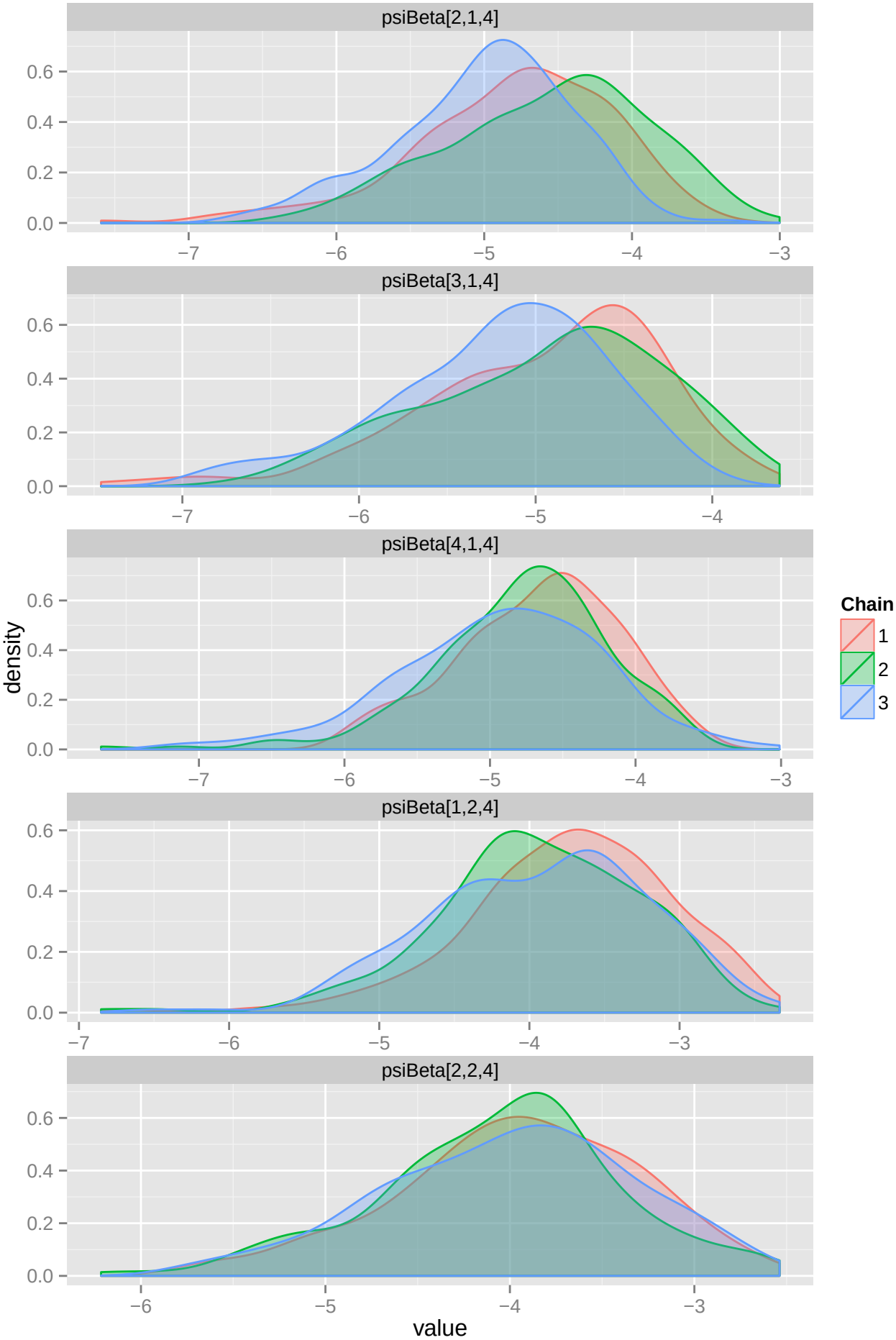
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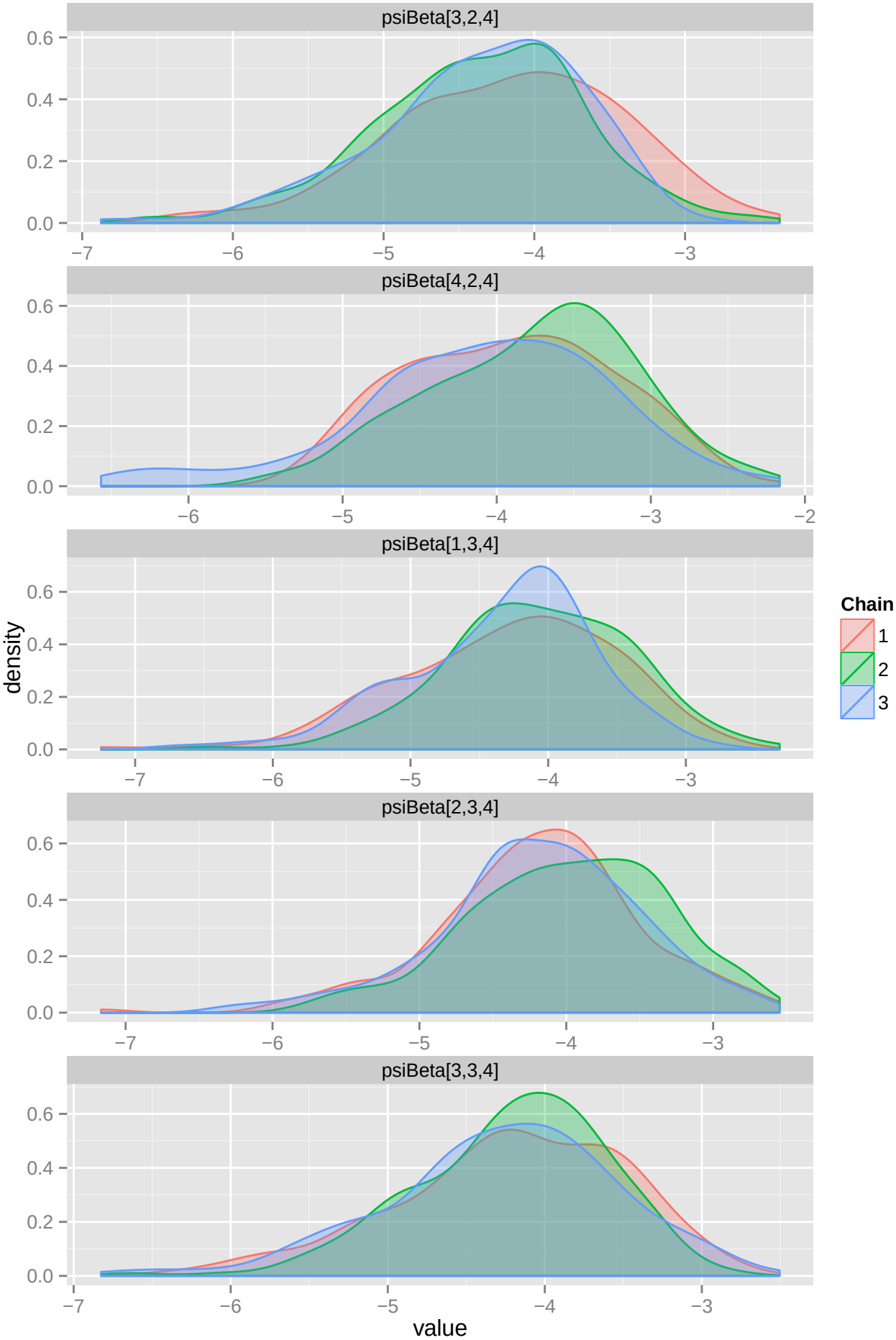
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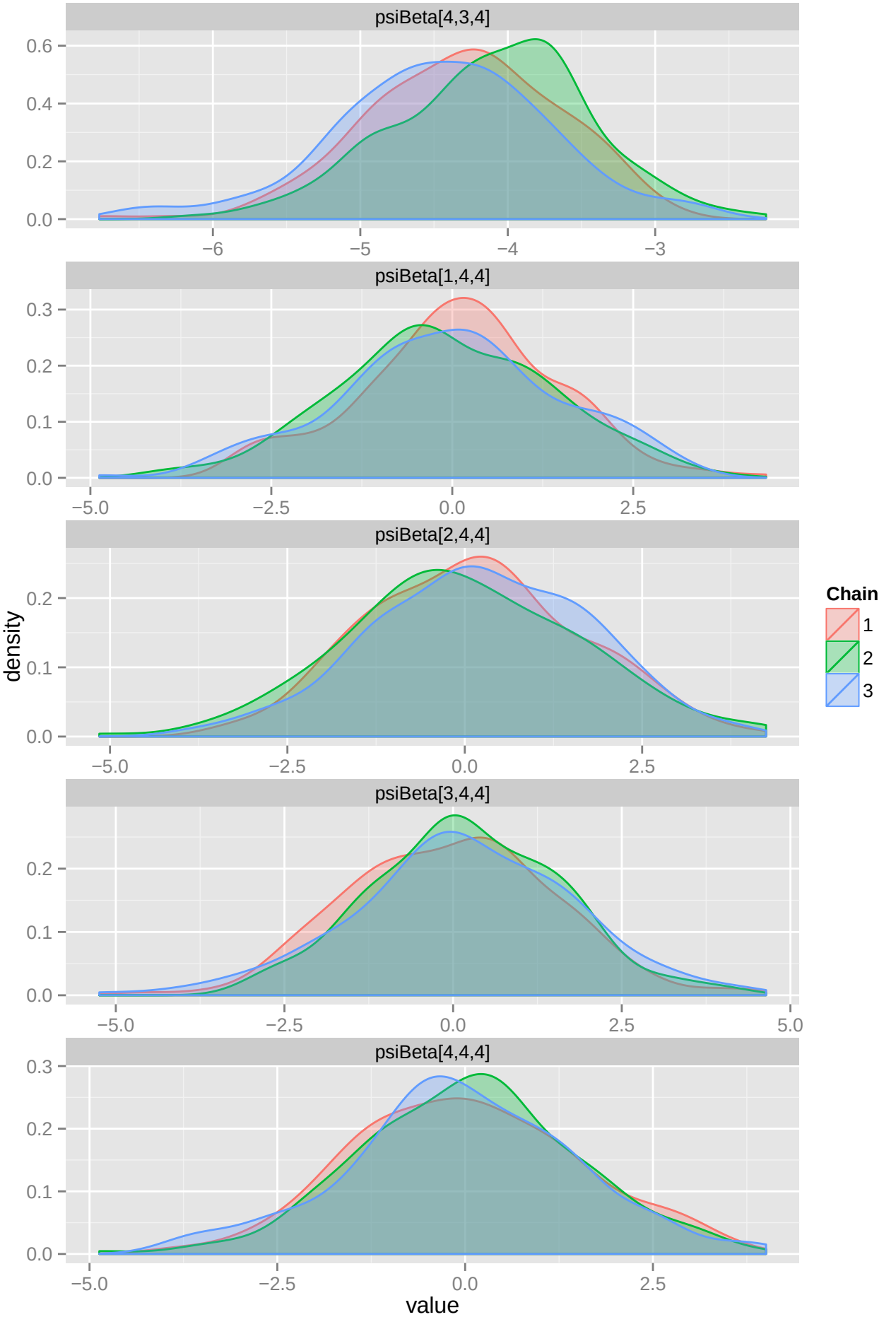
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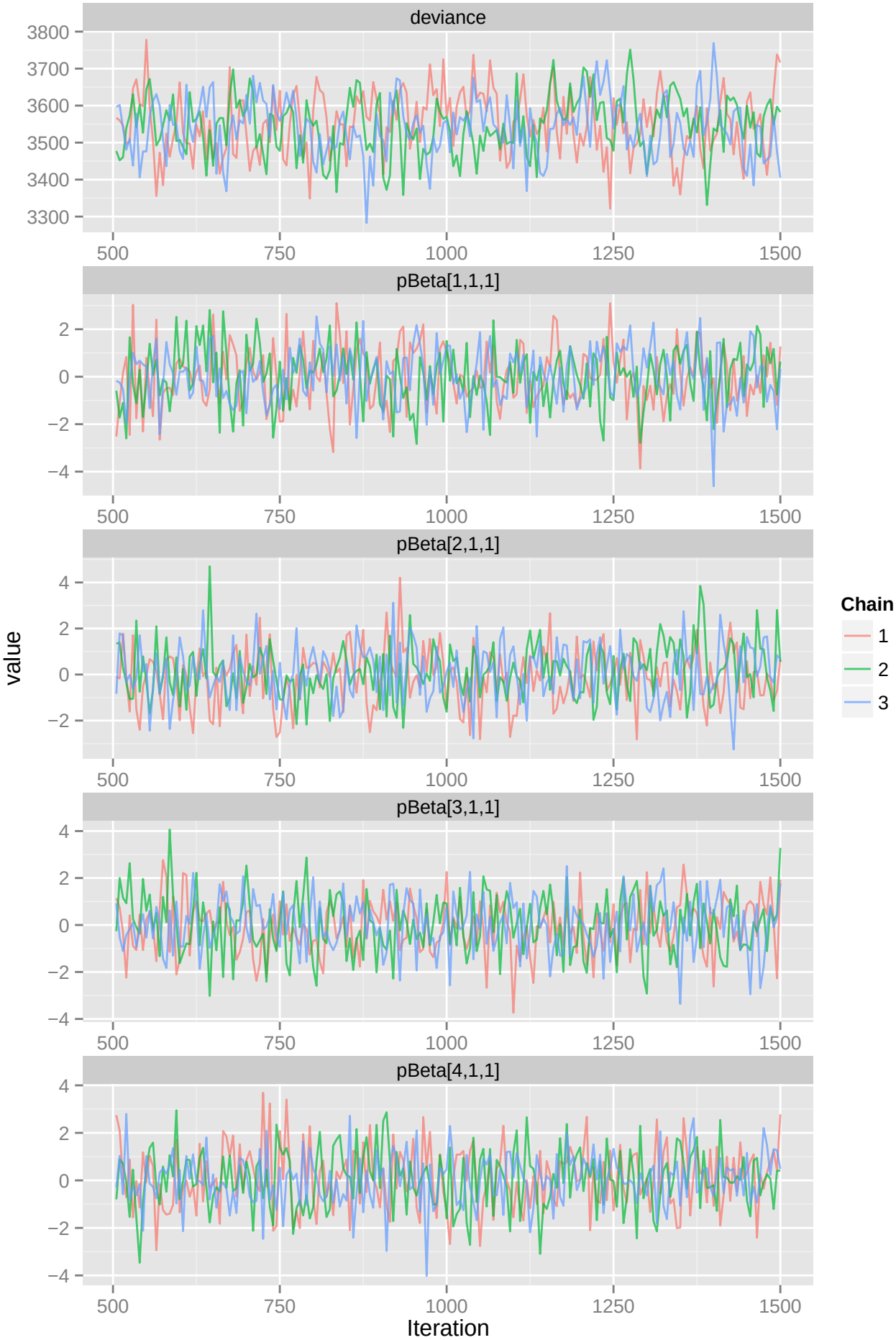
deviance
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500
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1000
1250
1500
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−2
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Iteration
Chain
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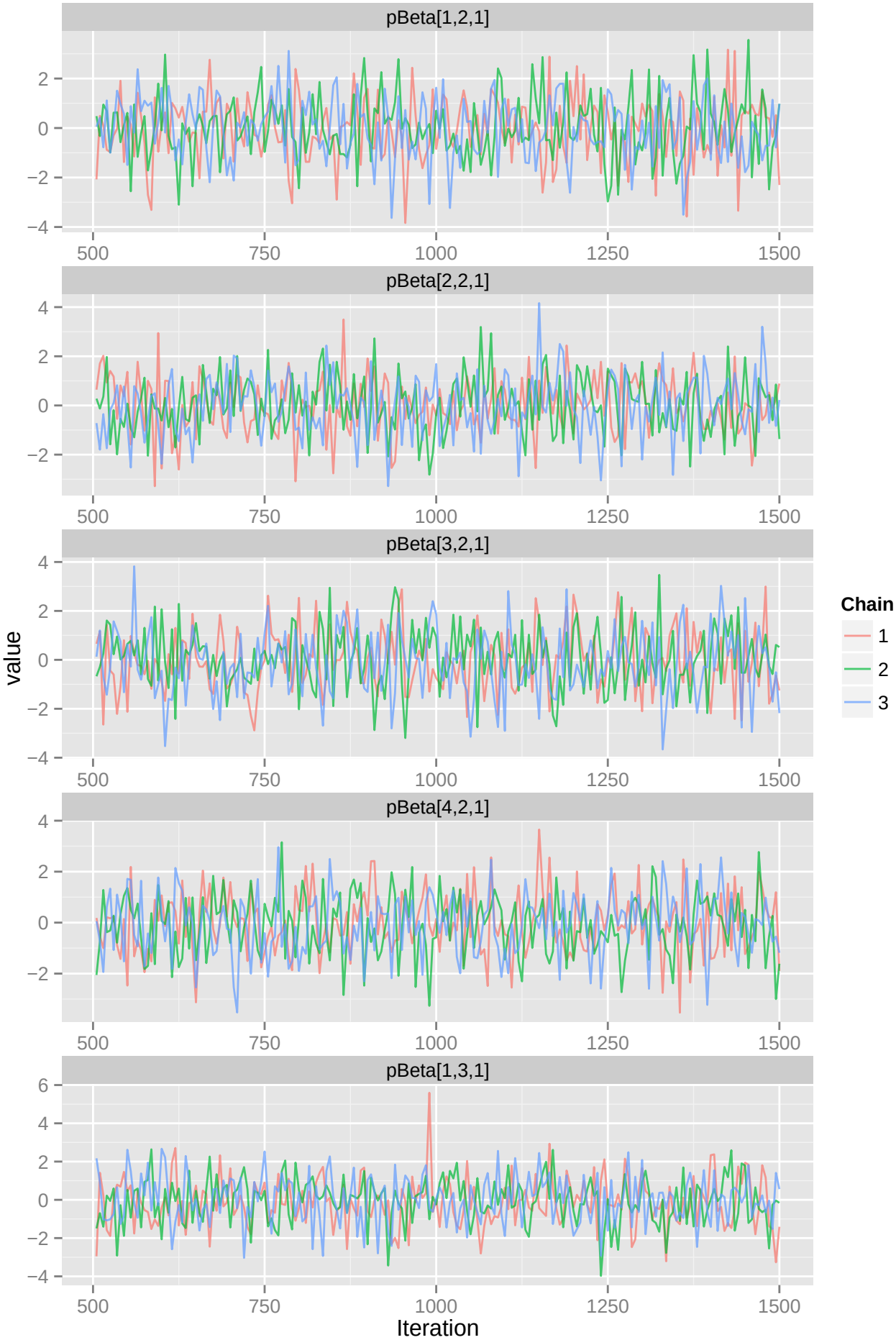
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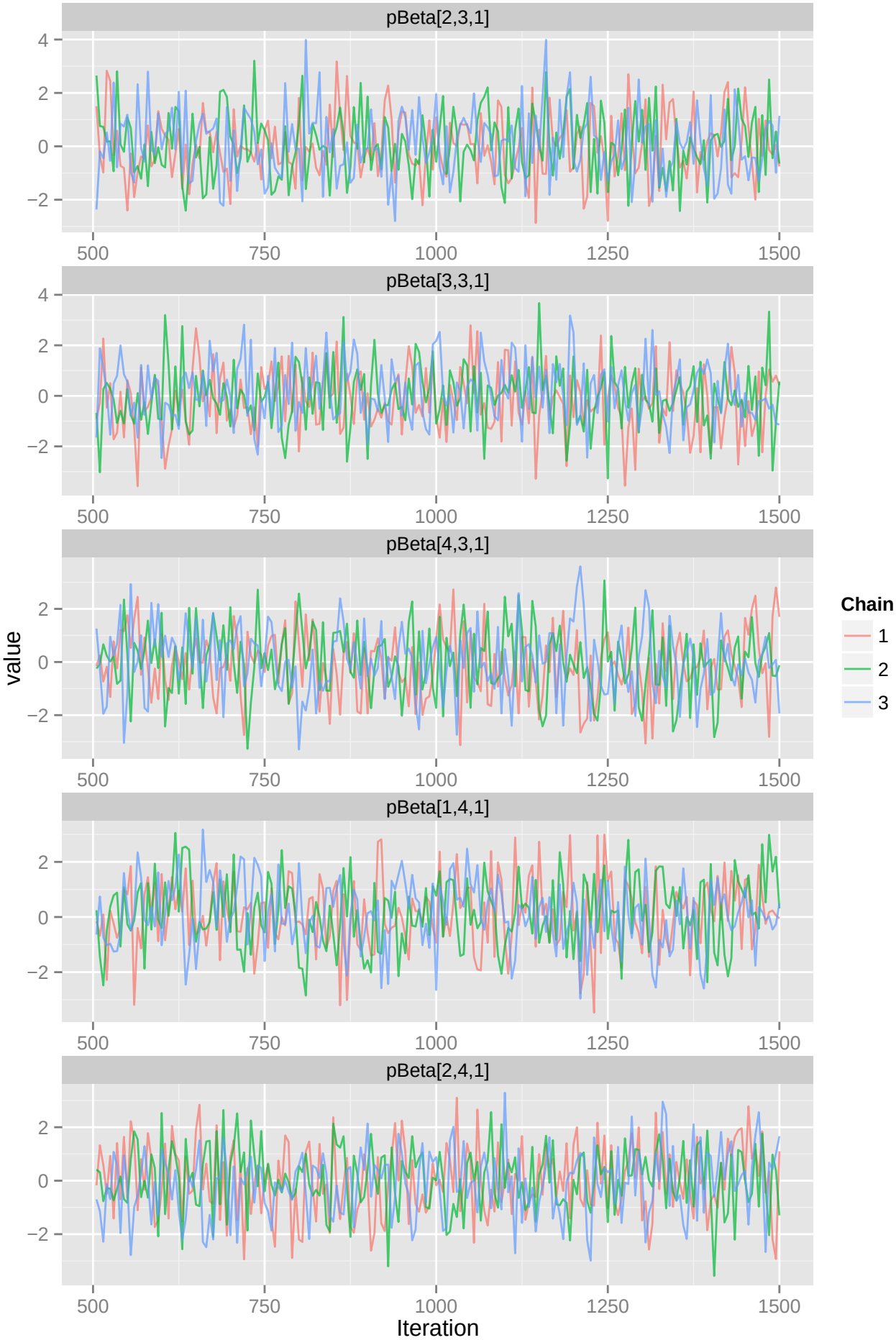
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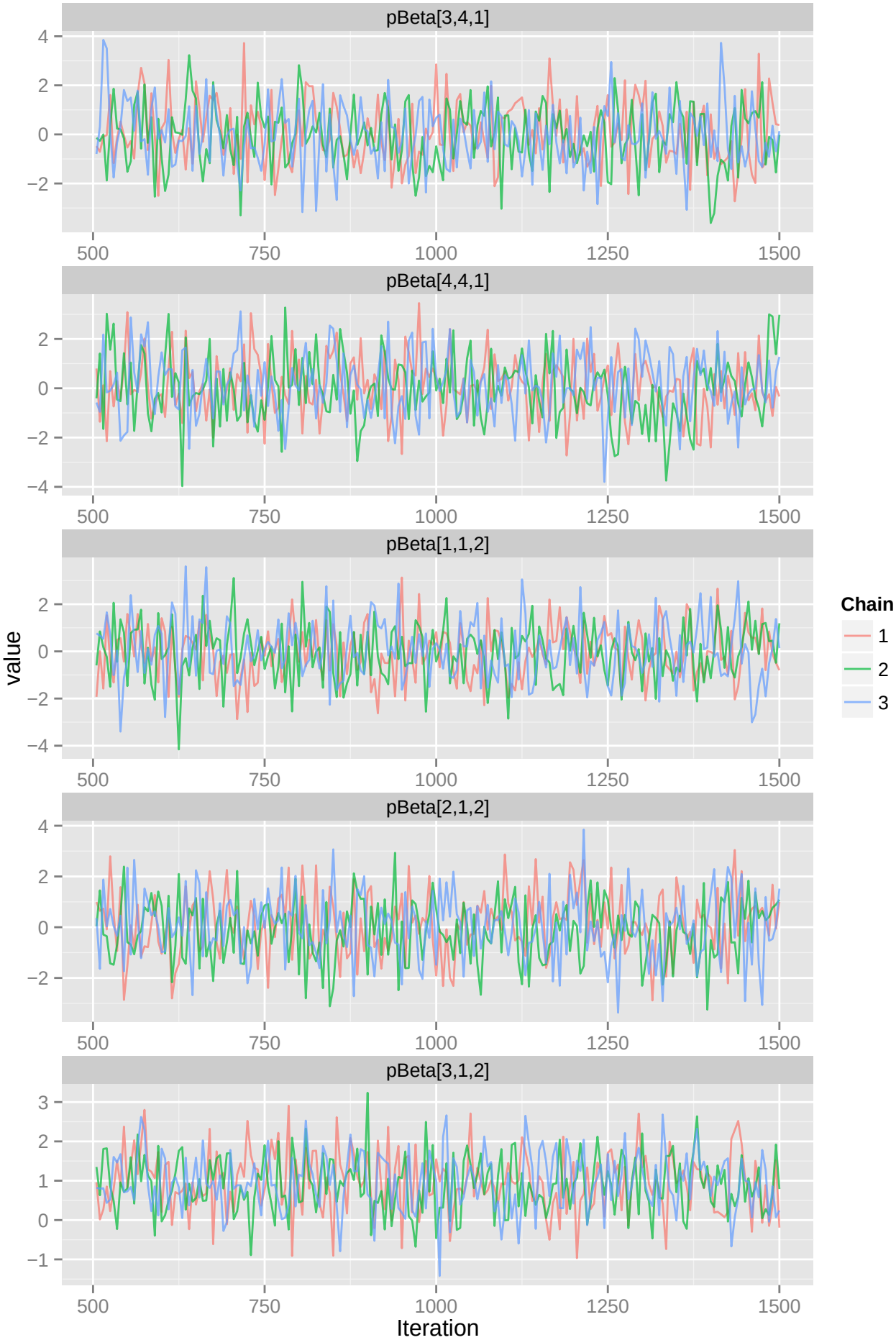
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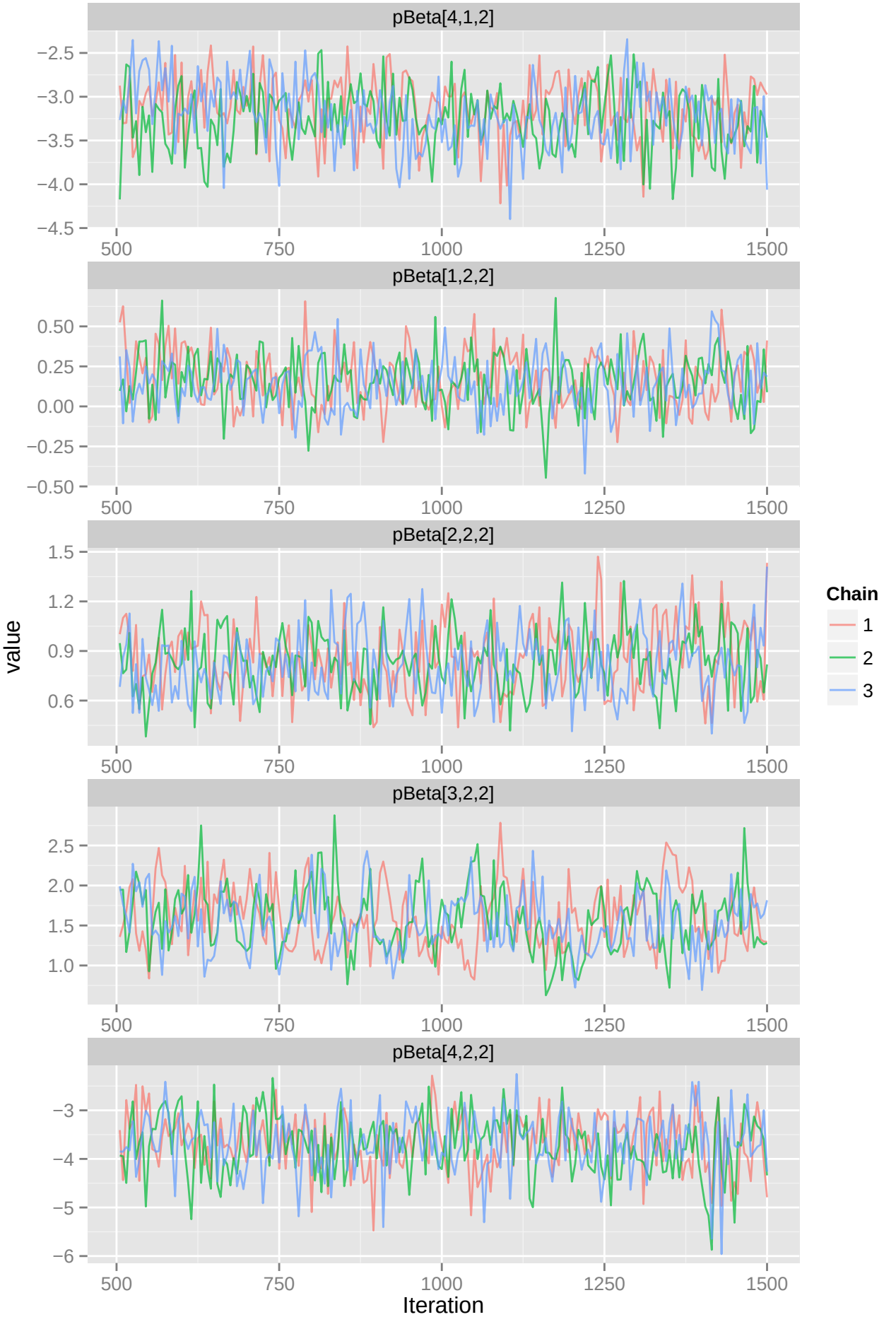
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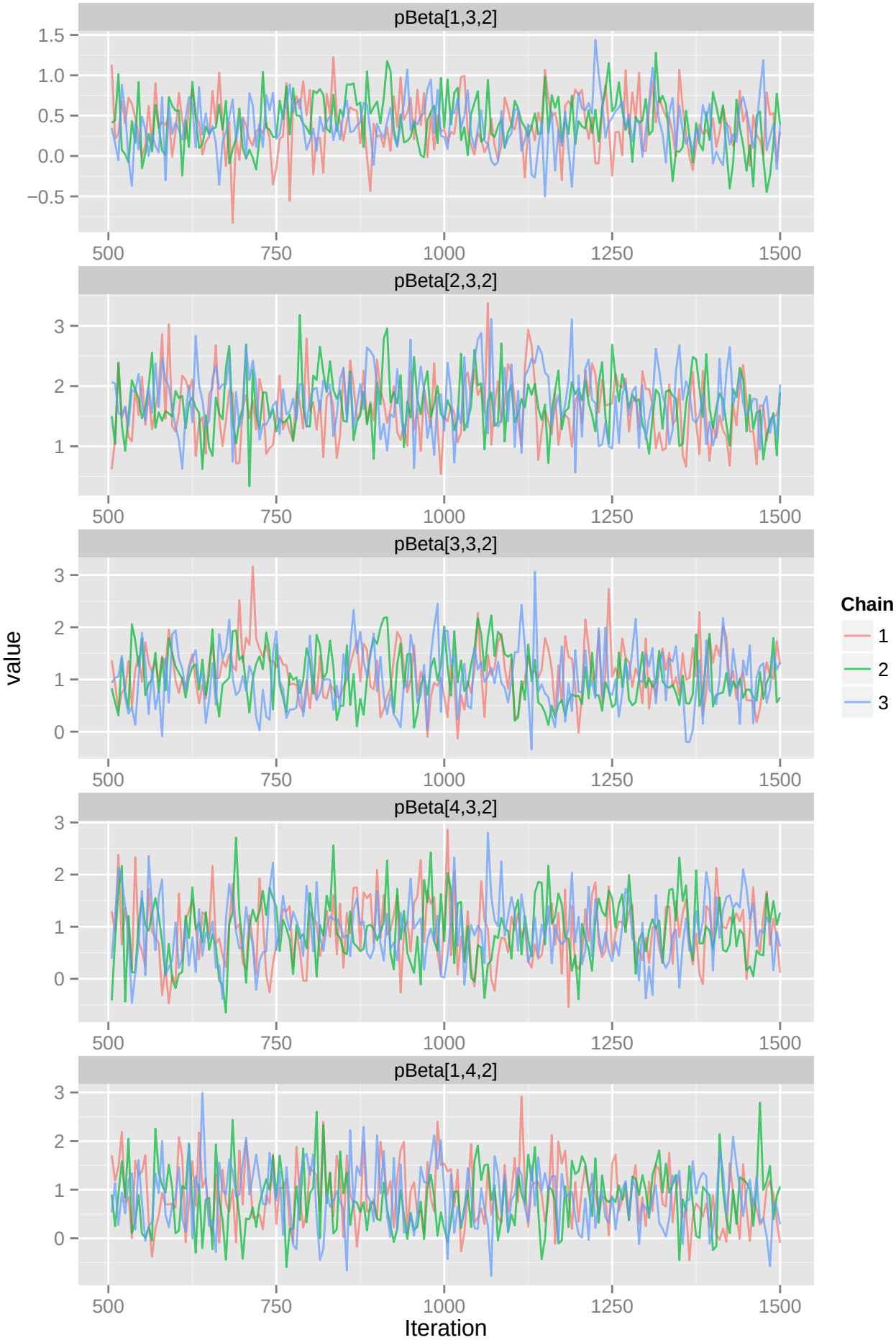
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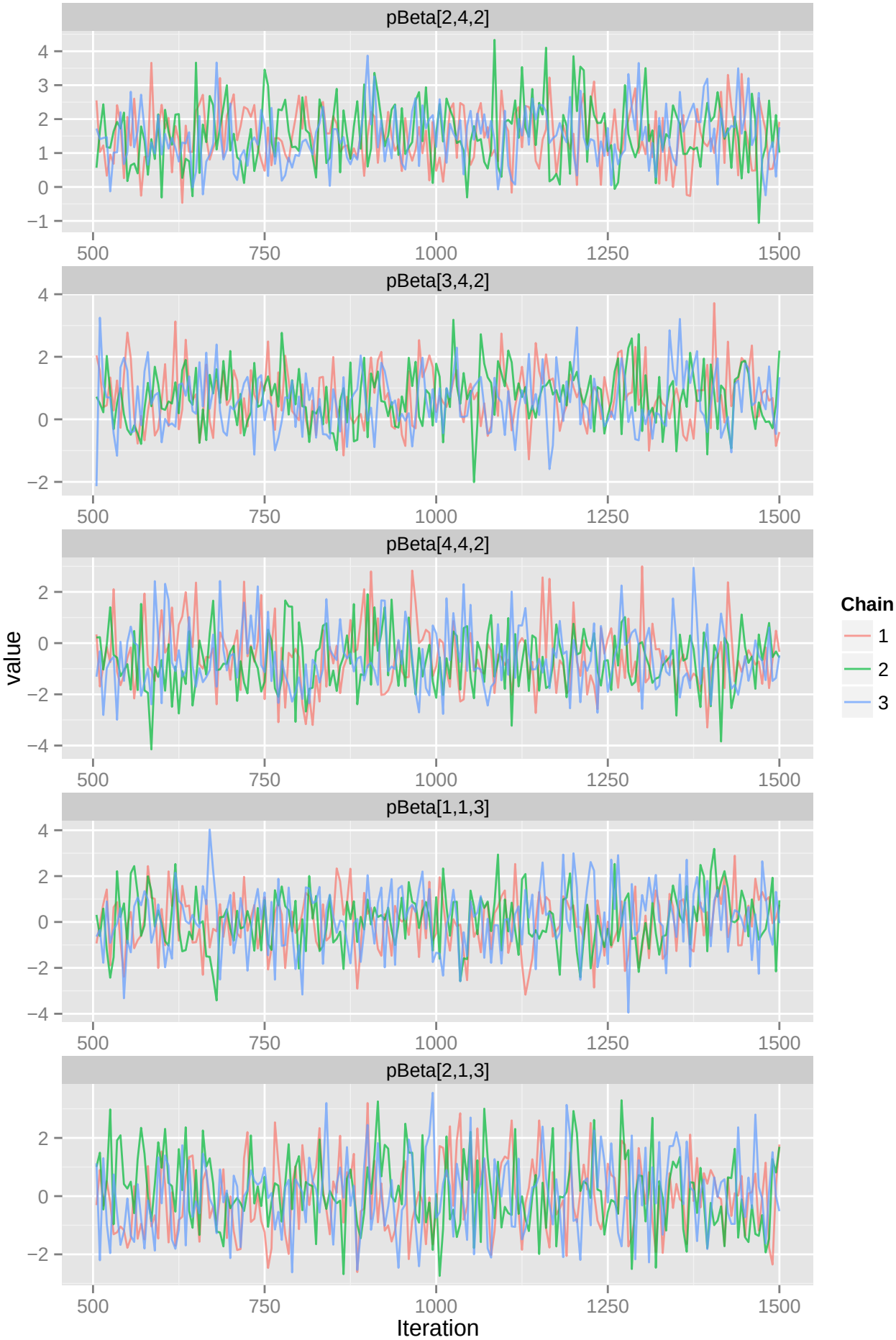
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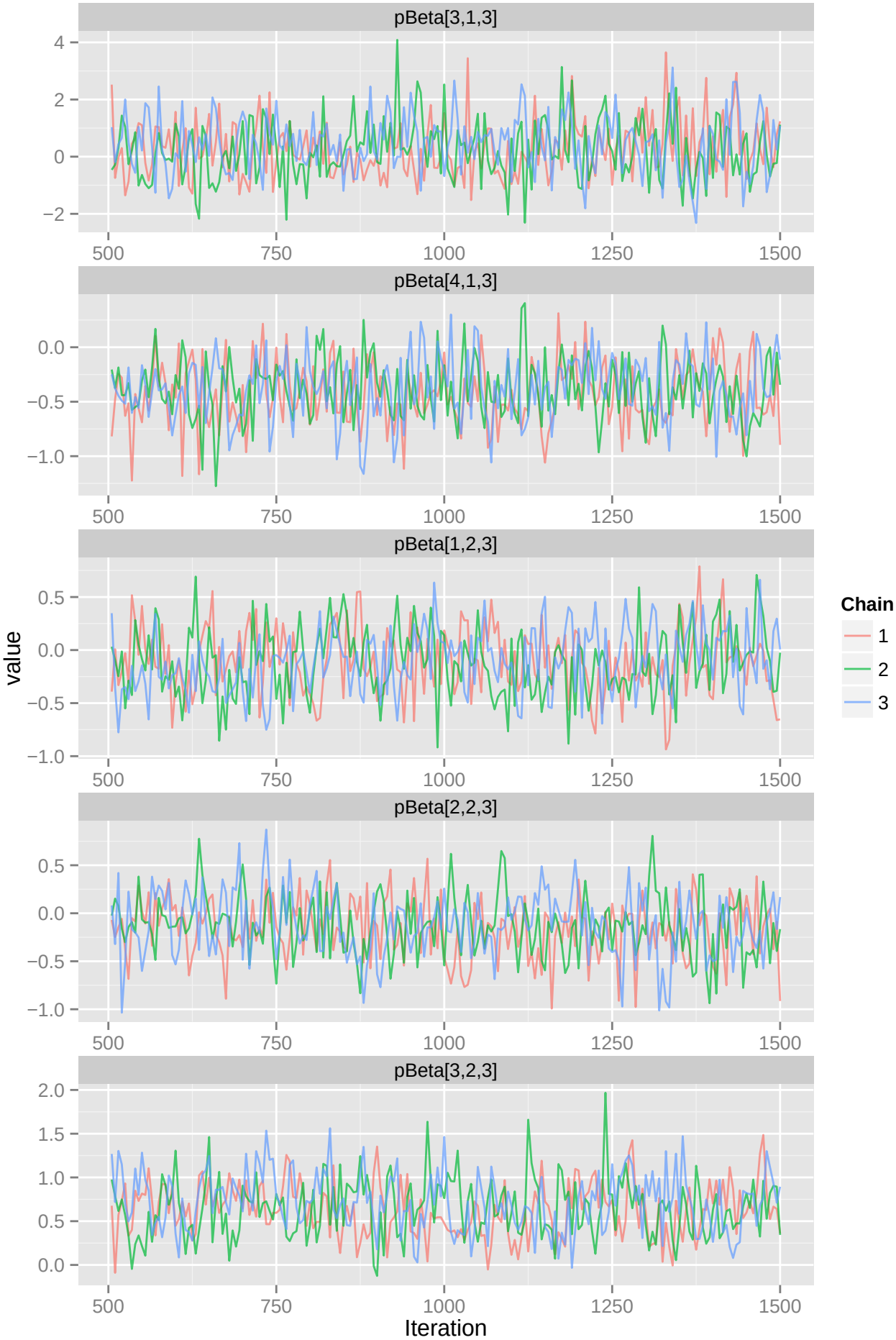
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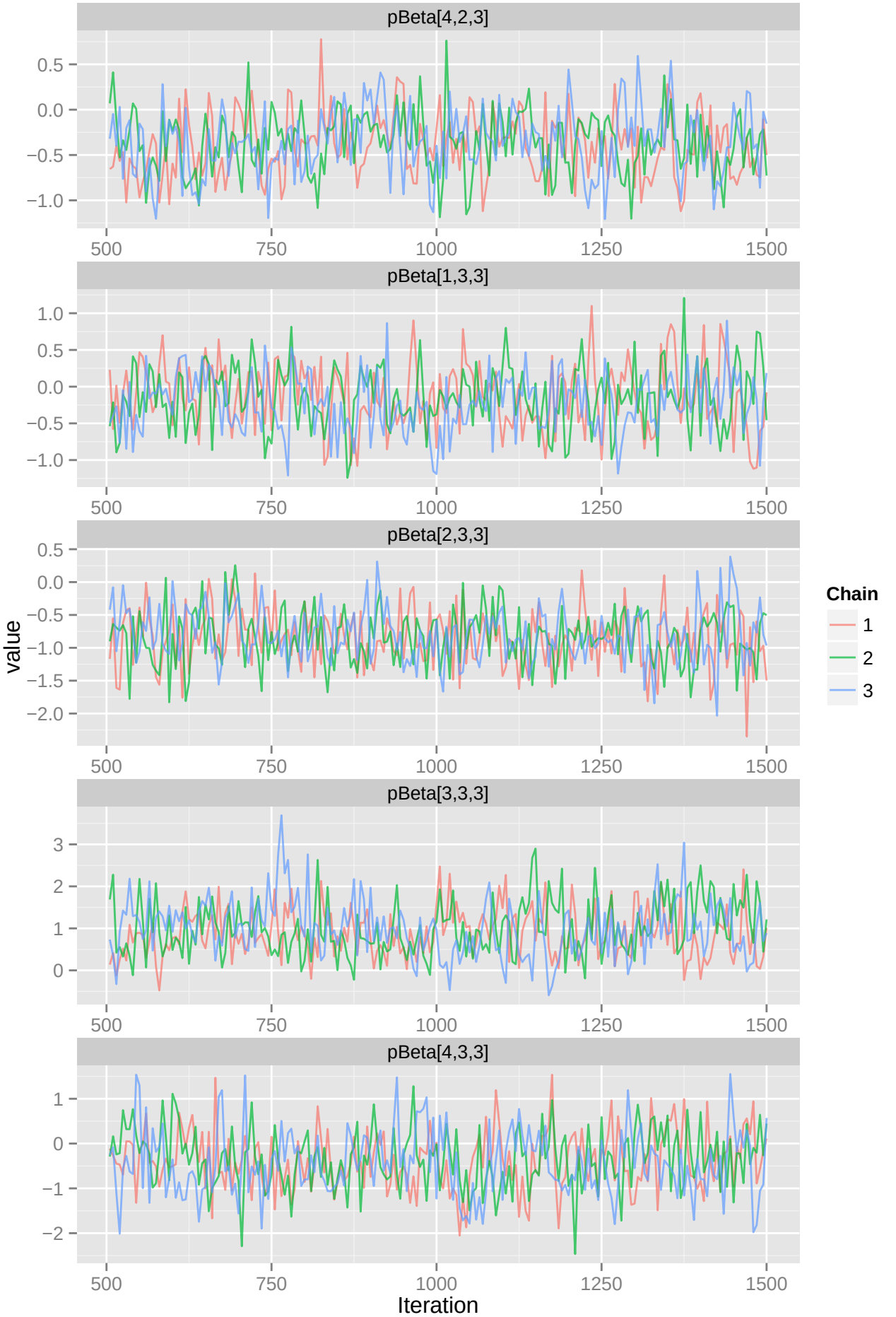
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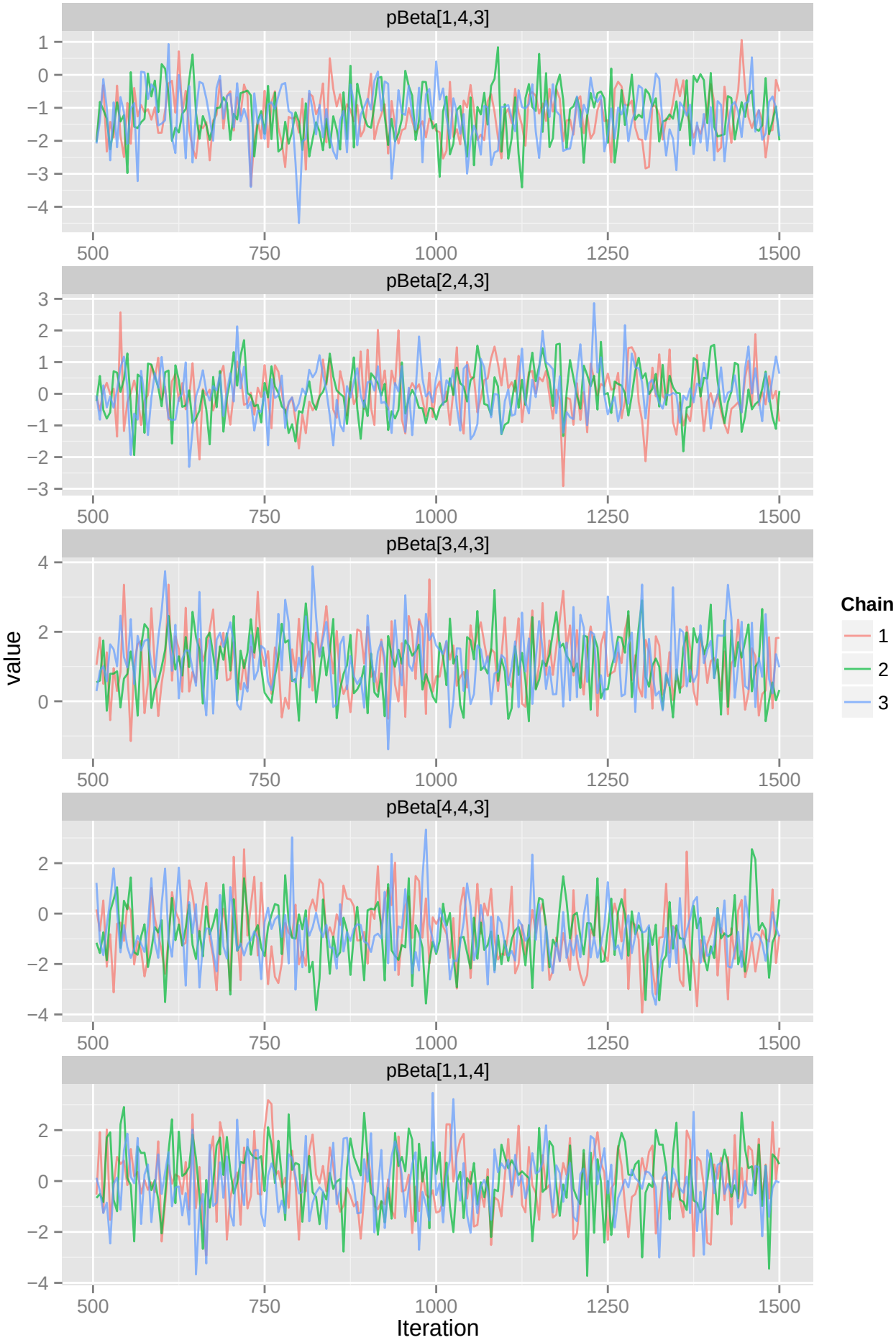
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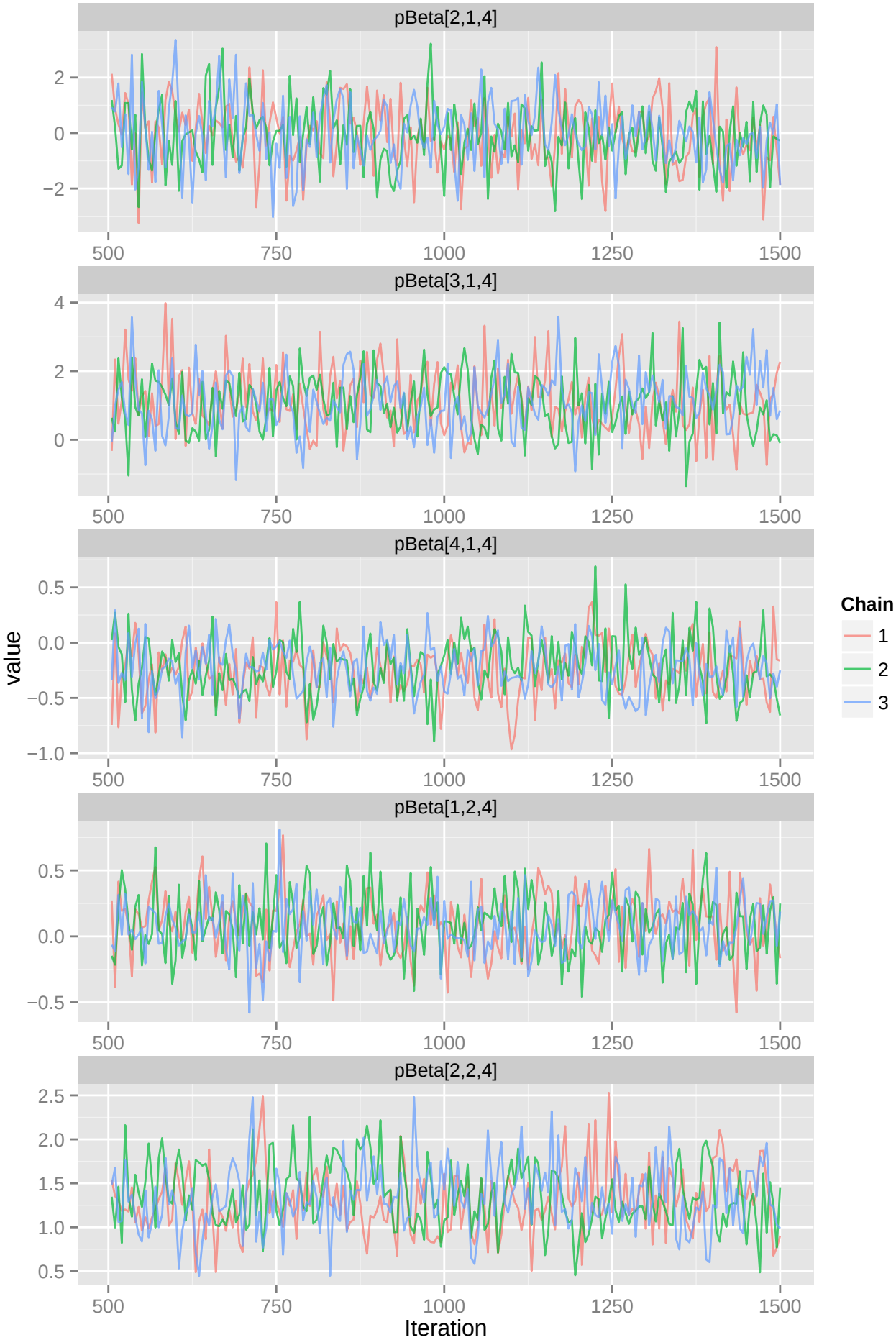
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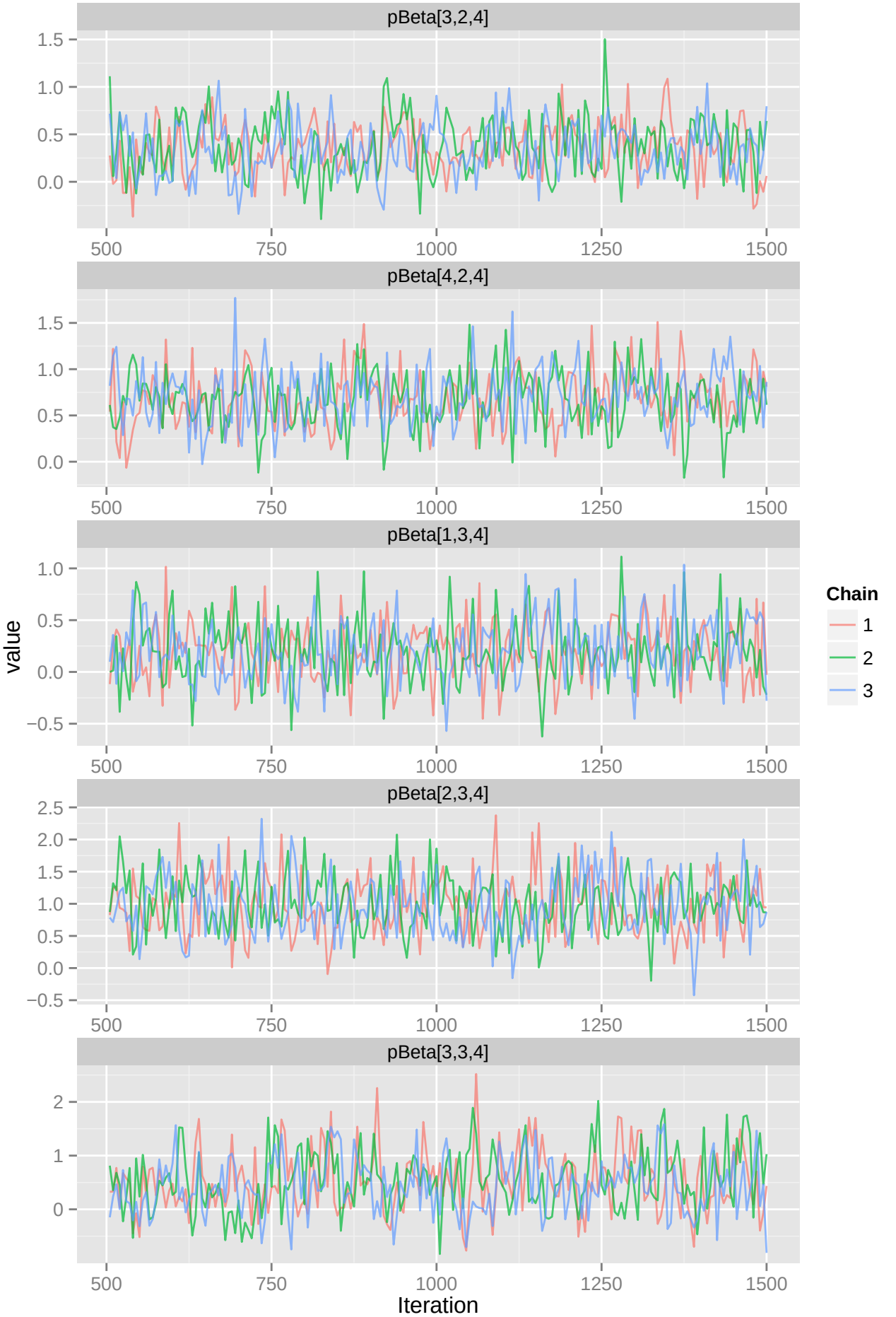
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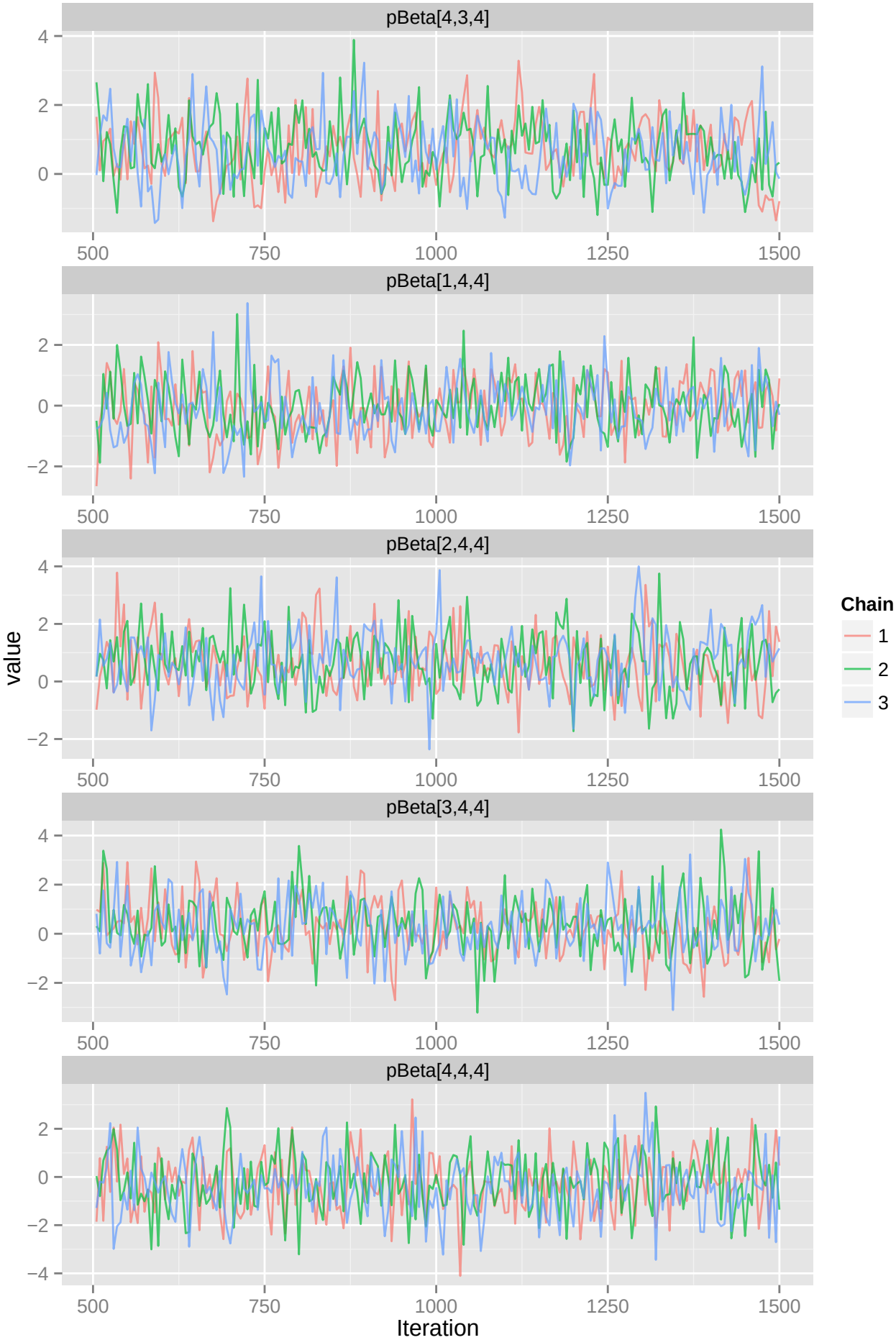
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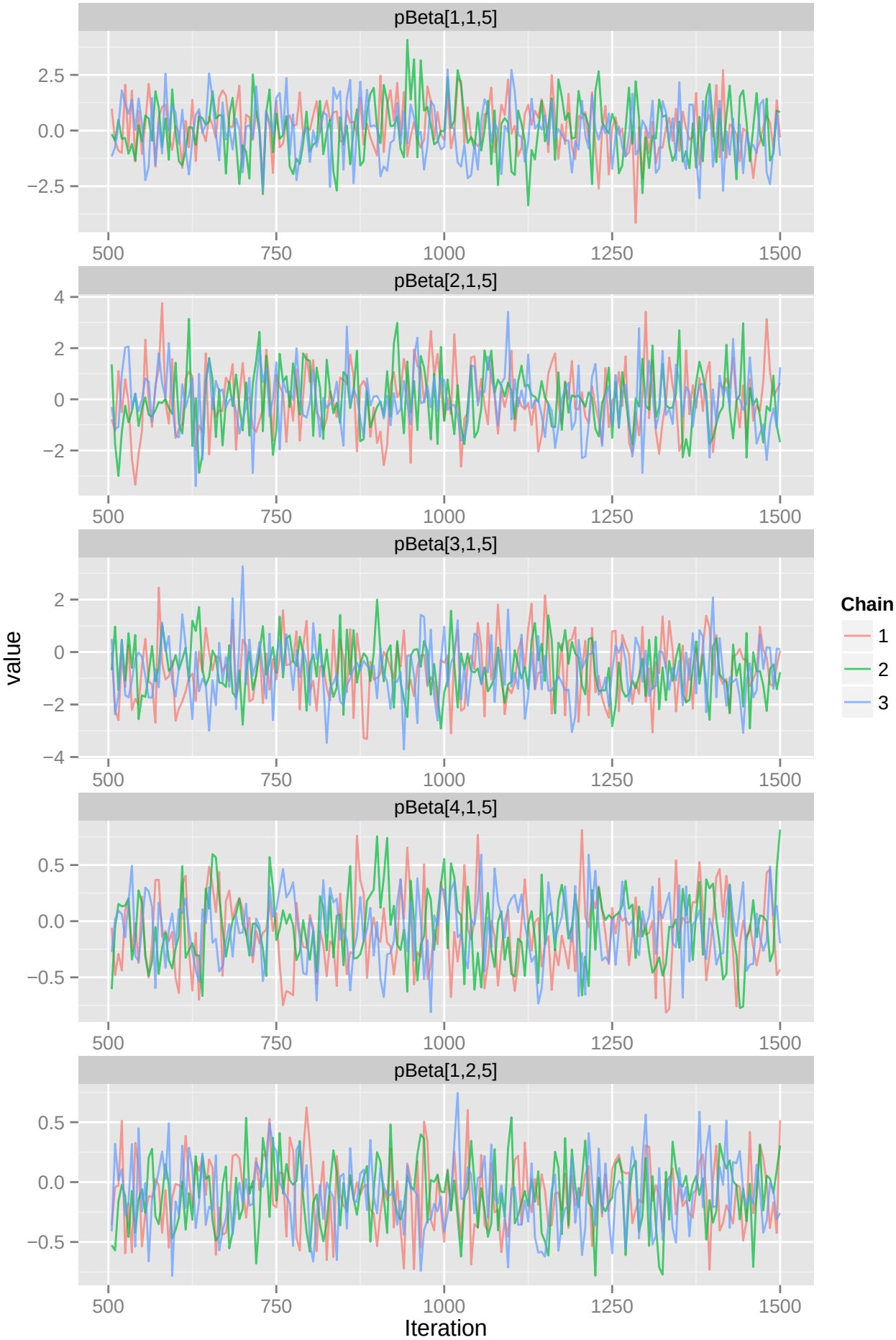
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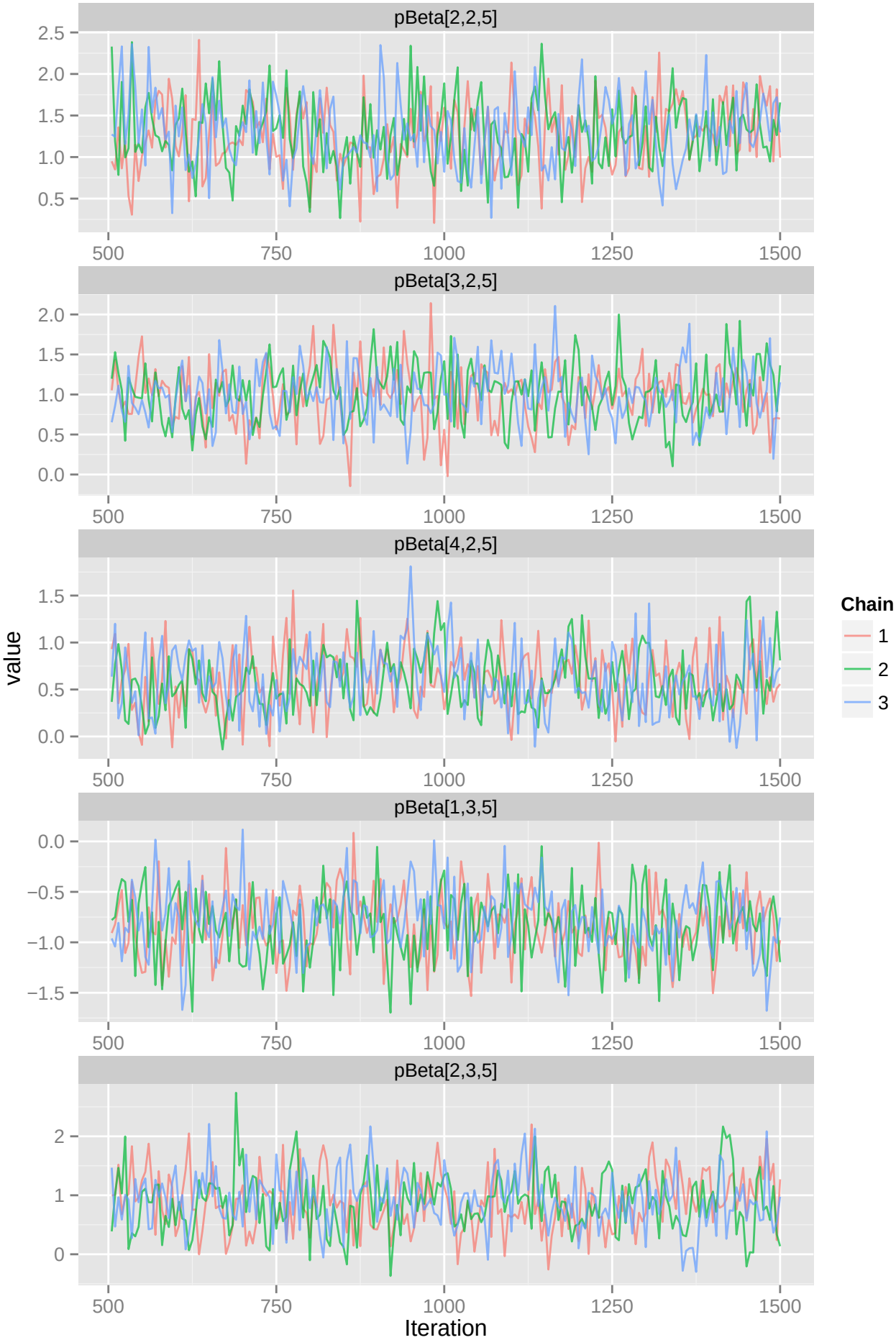
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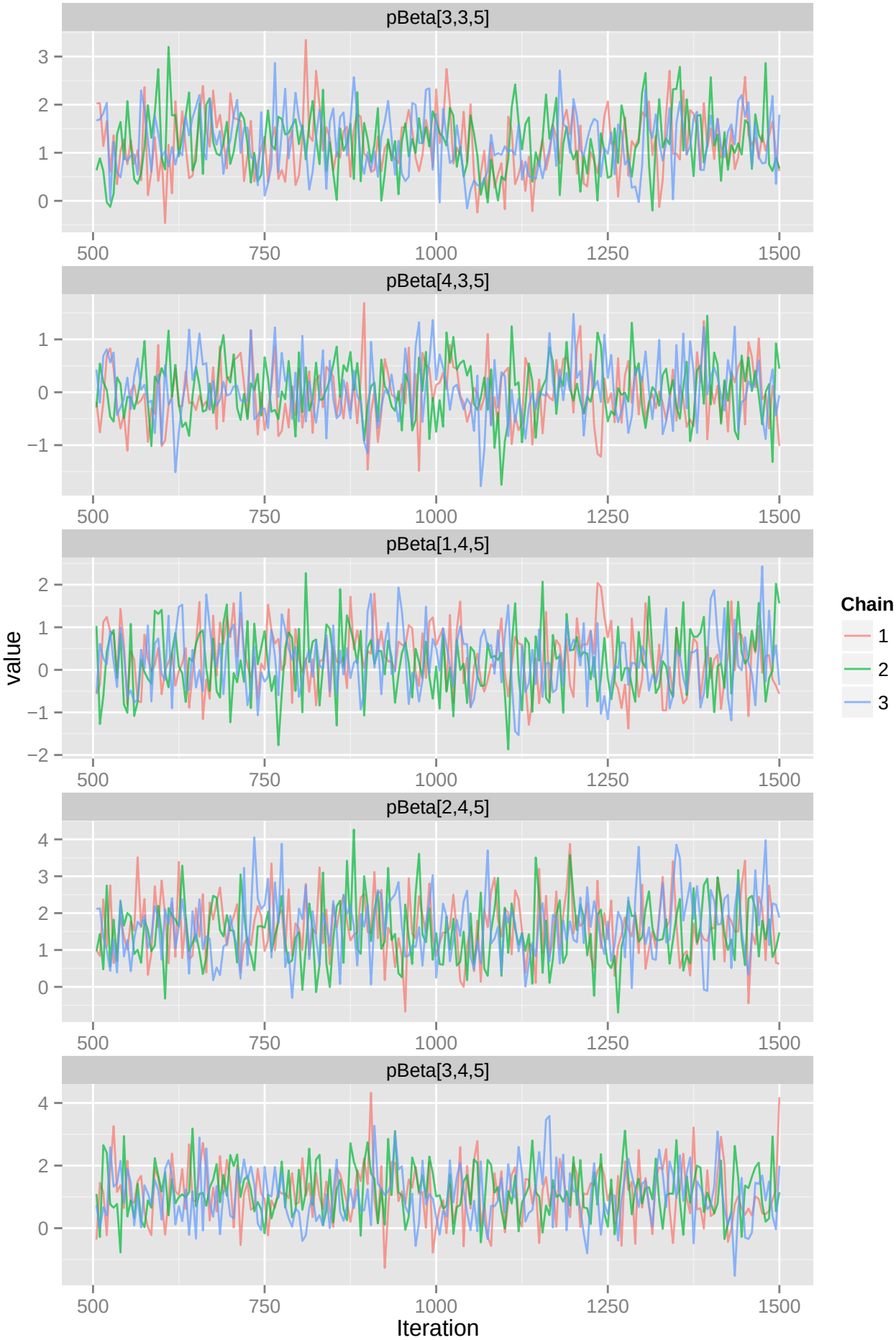
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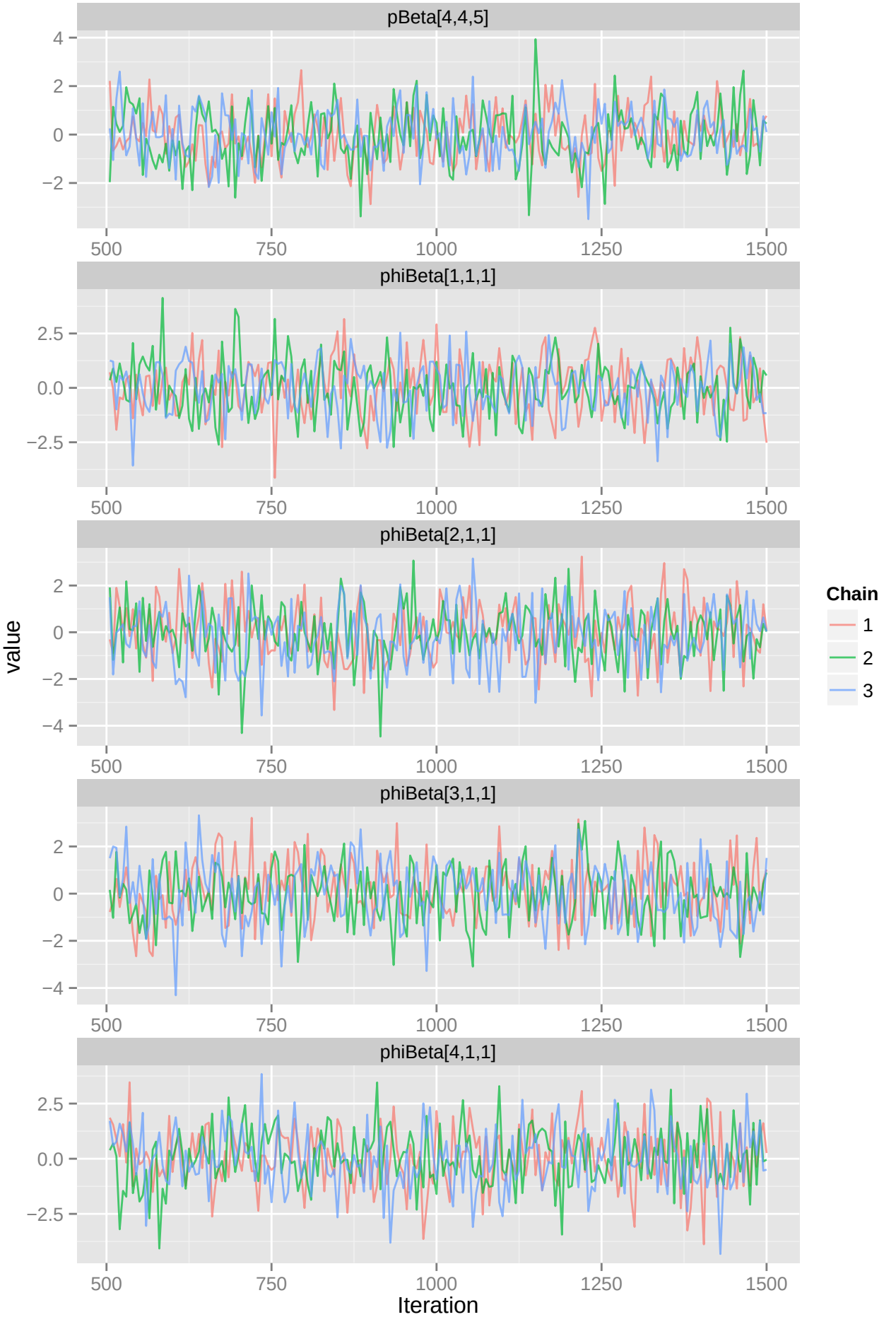
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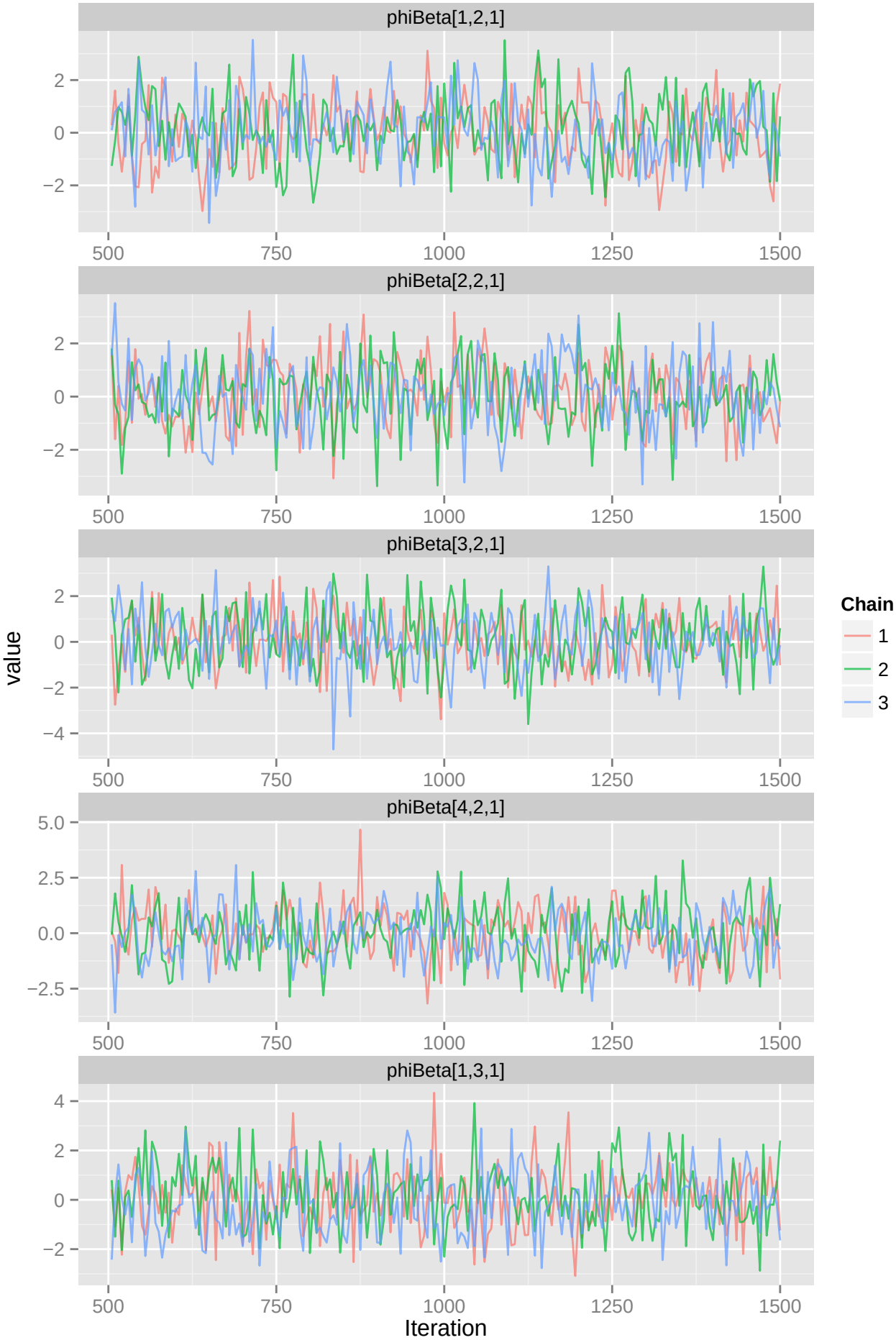
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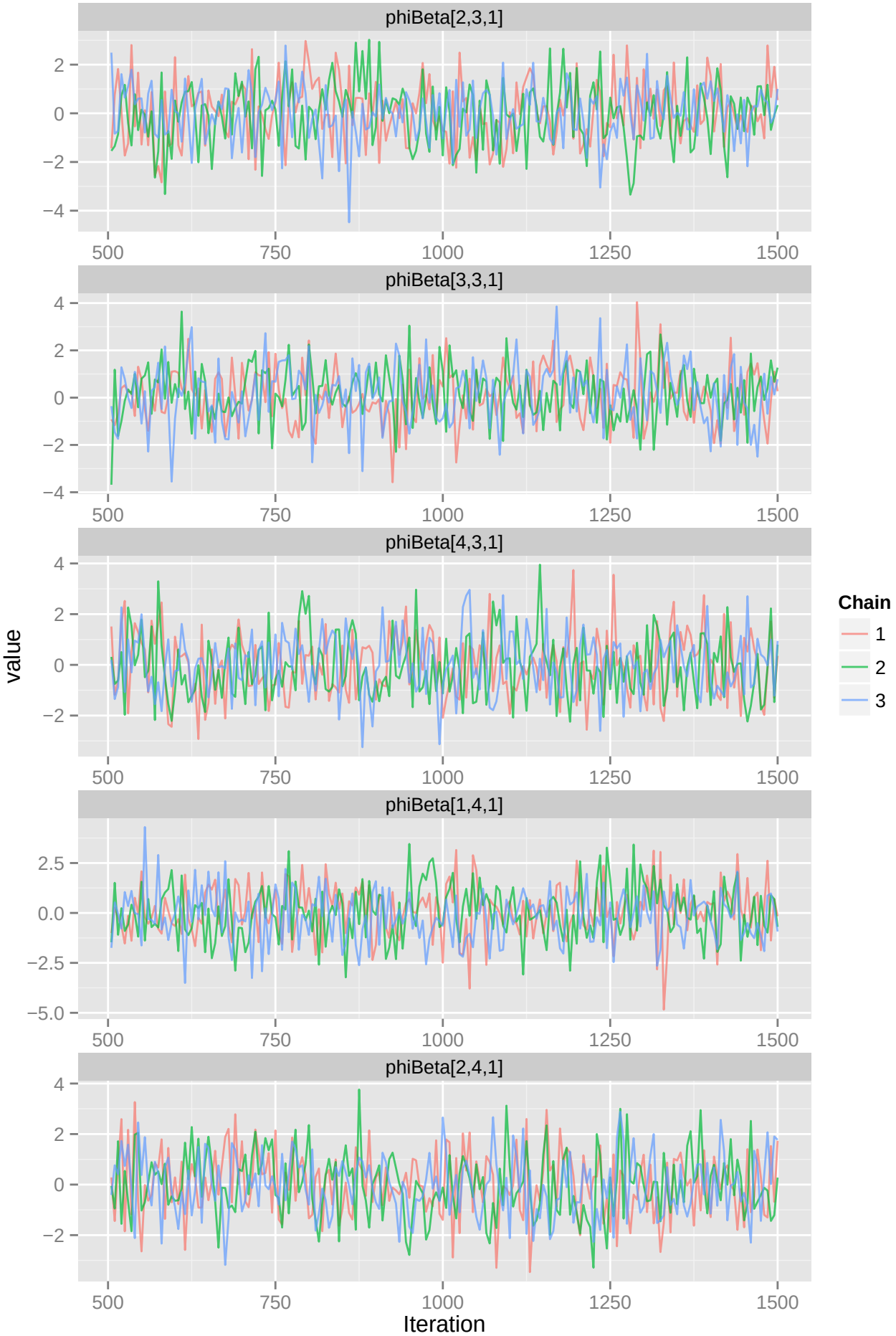
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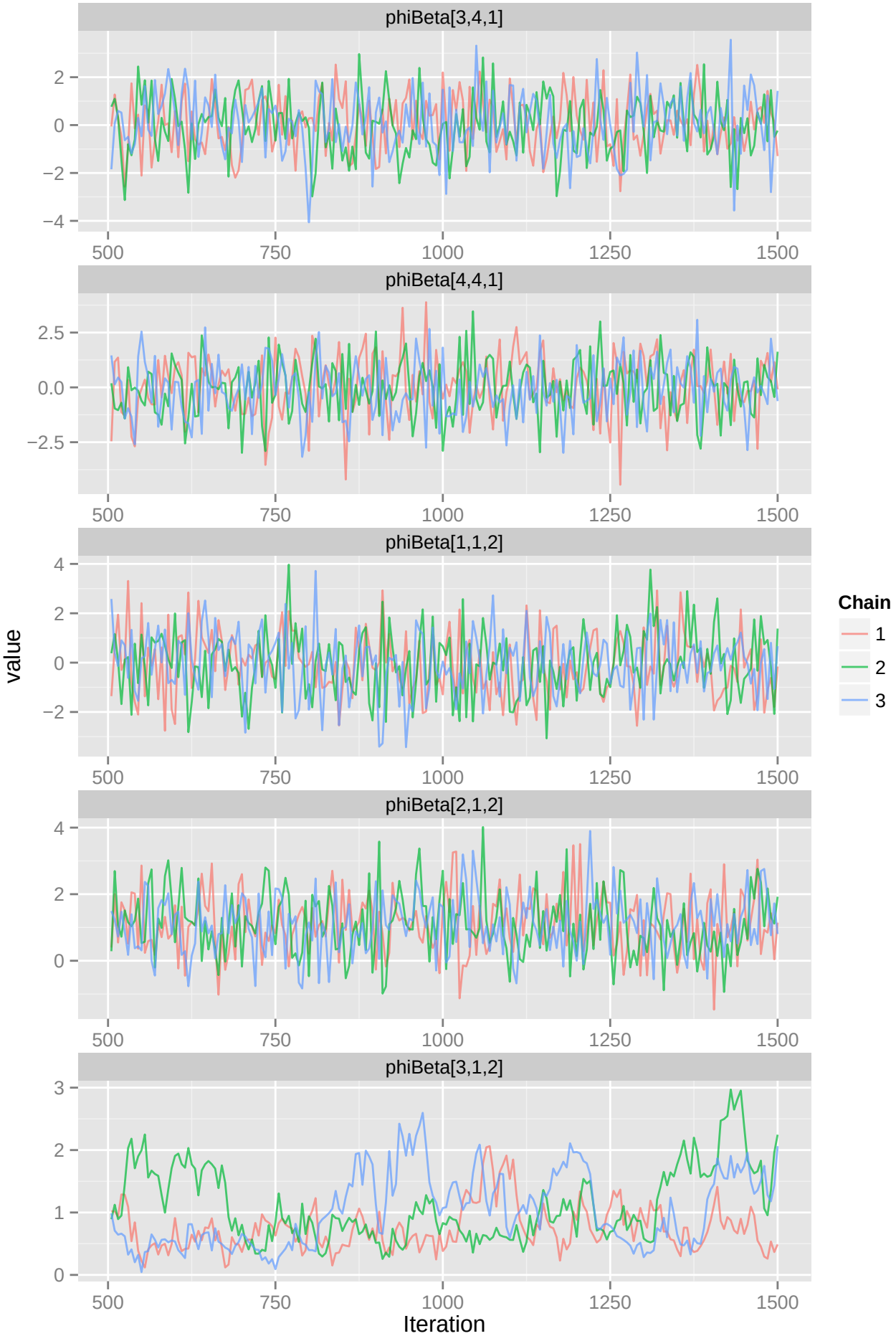
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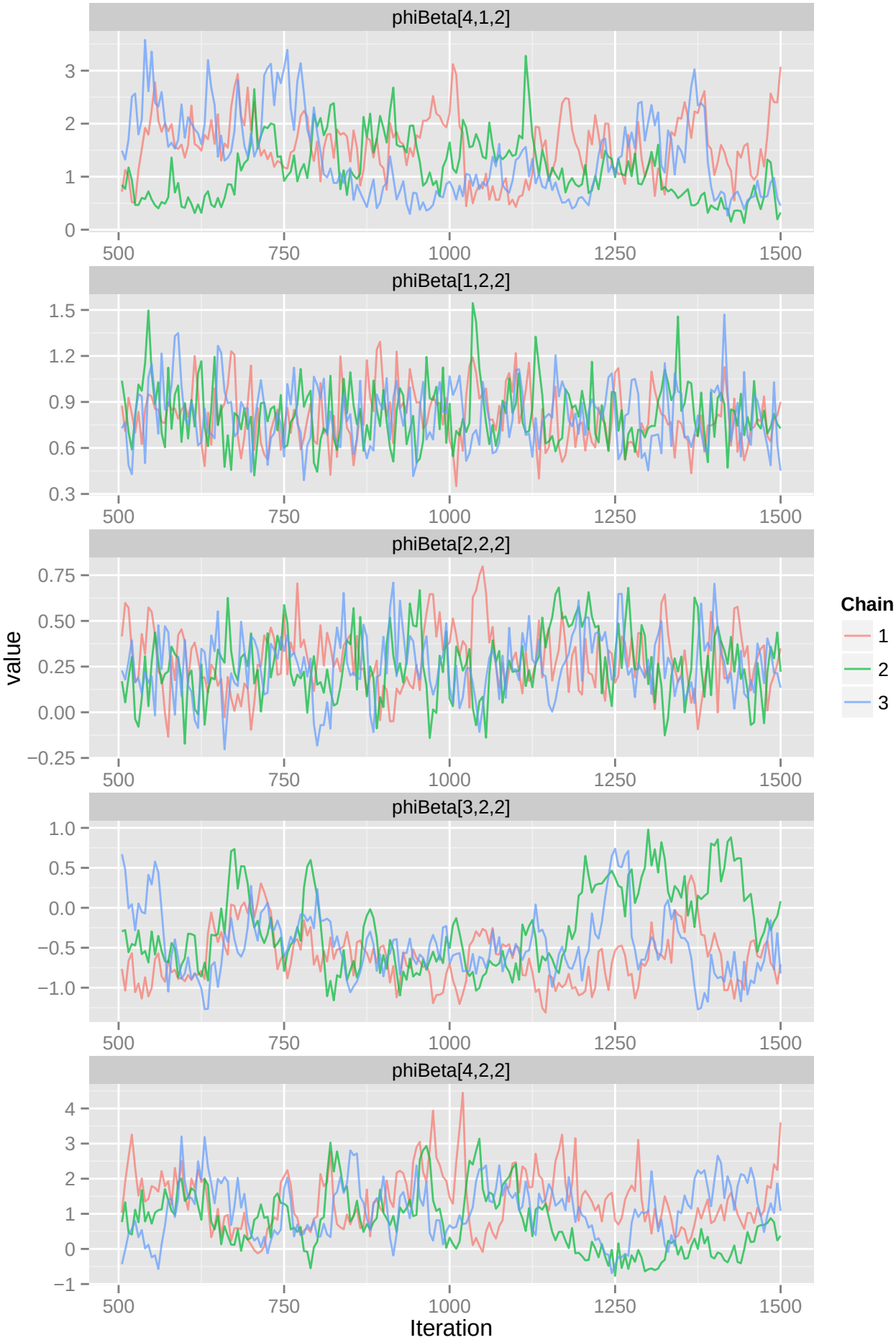
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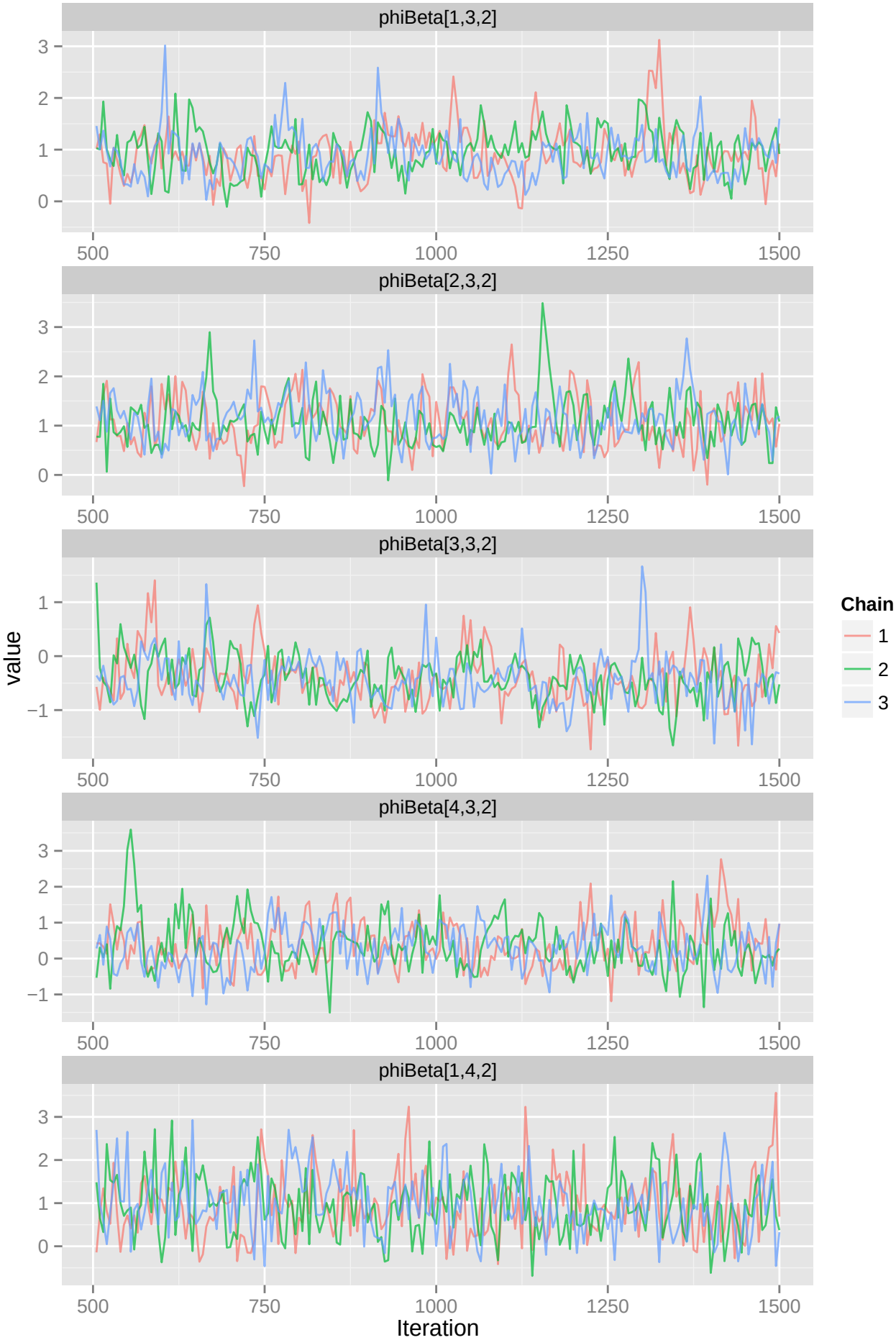
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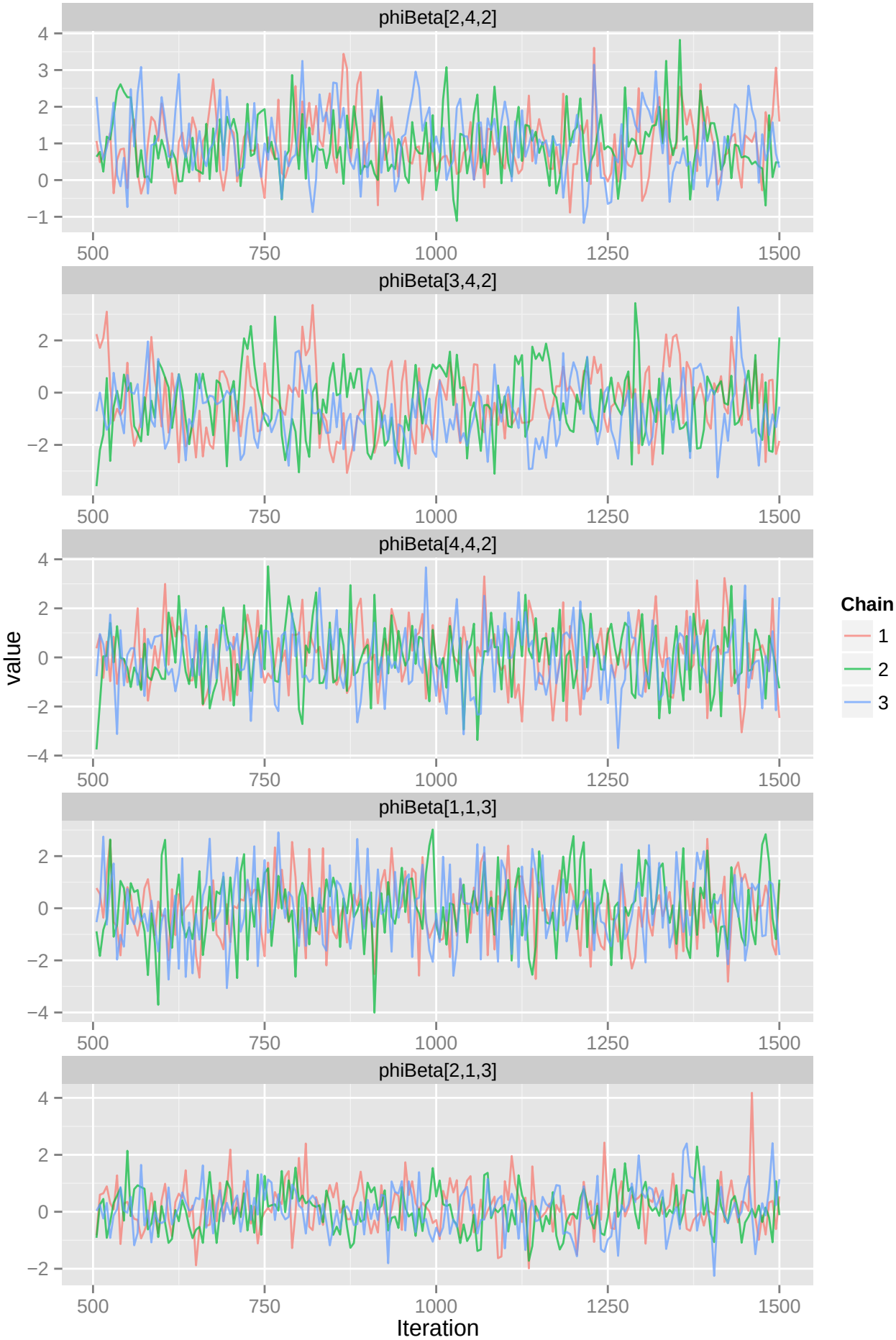
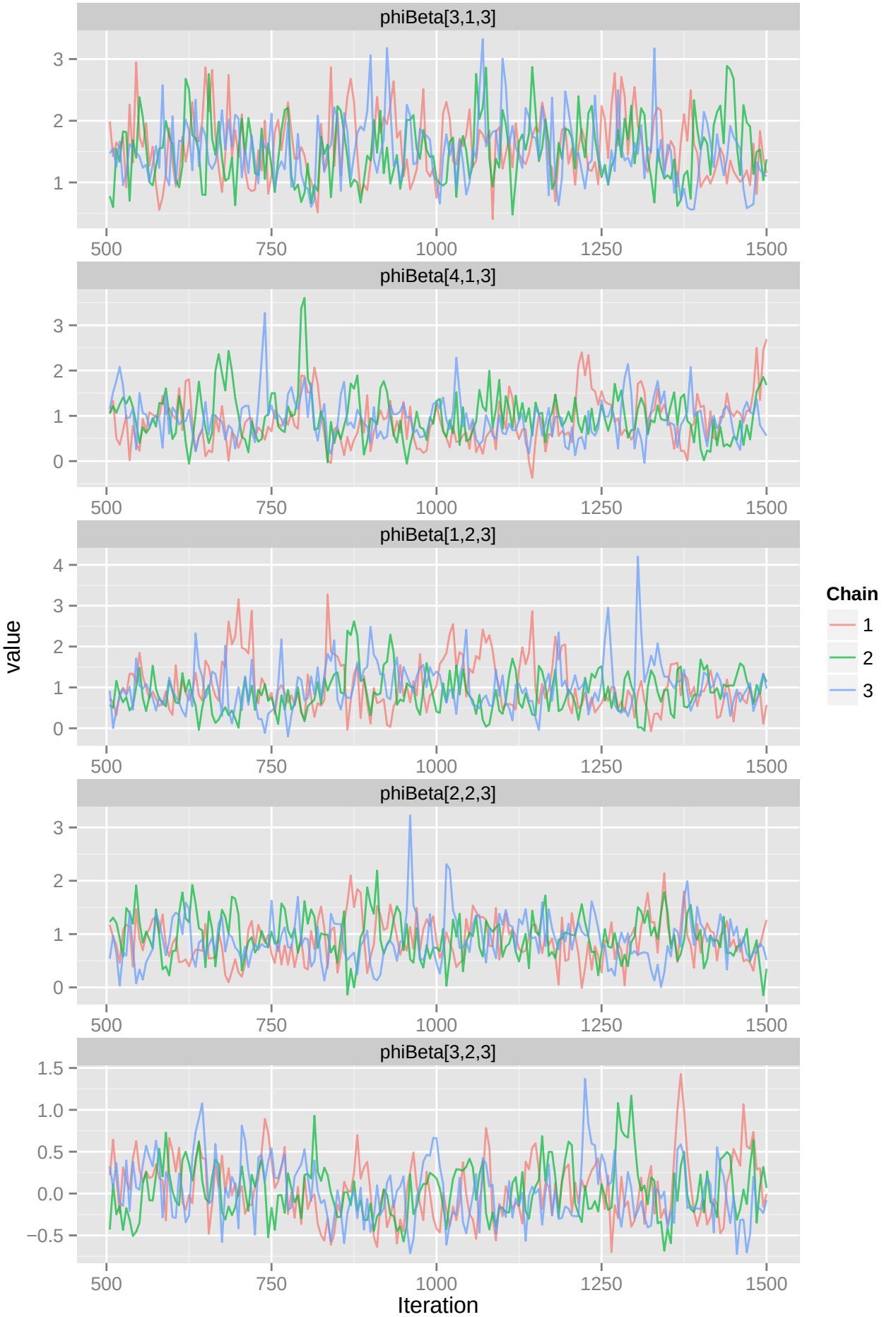
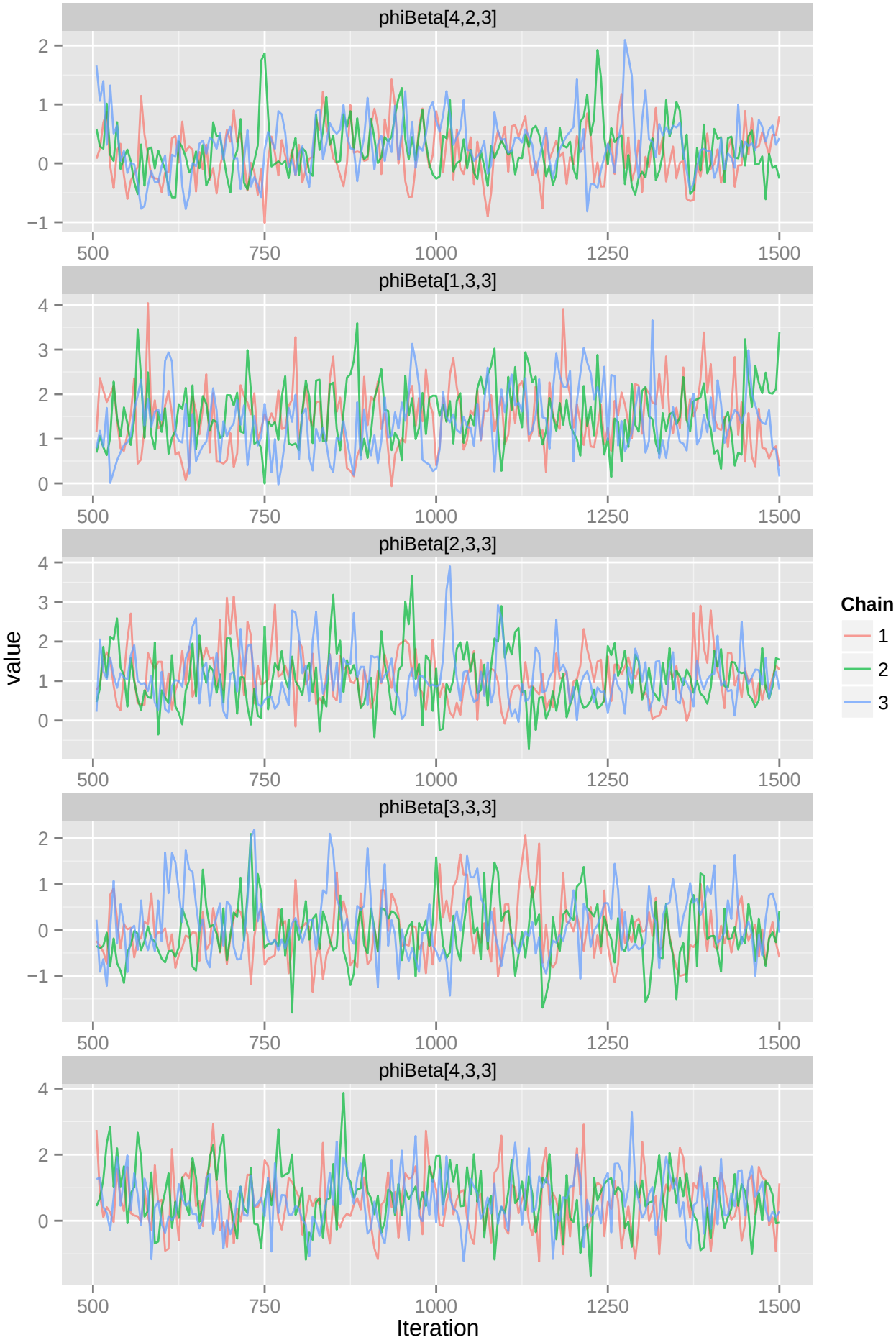
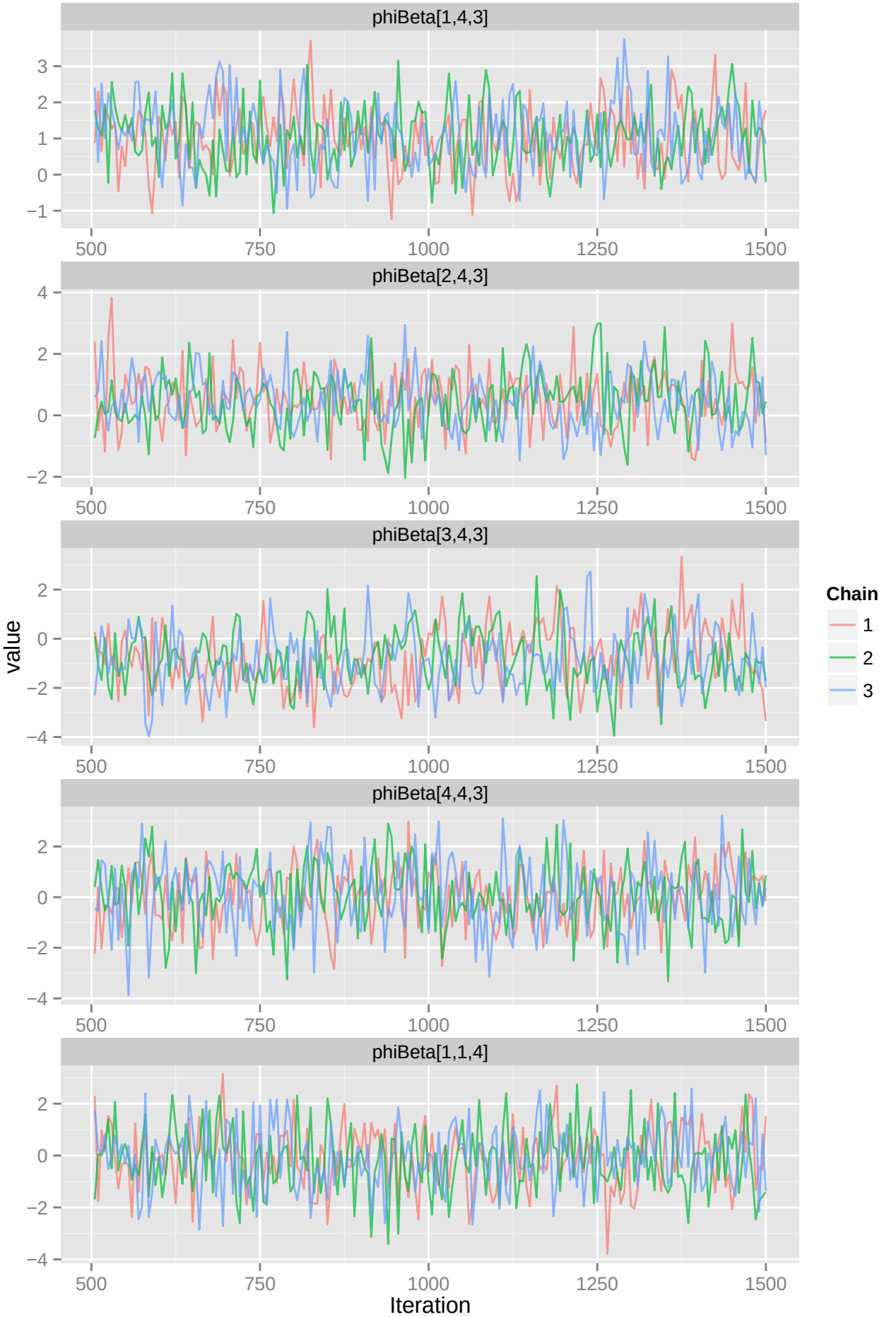
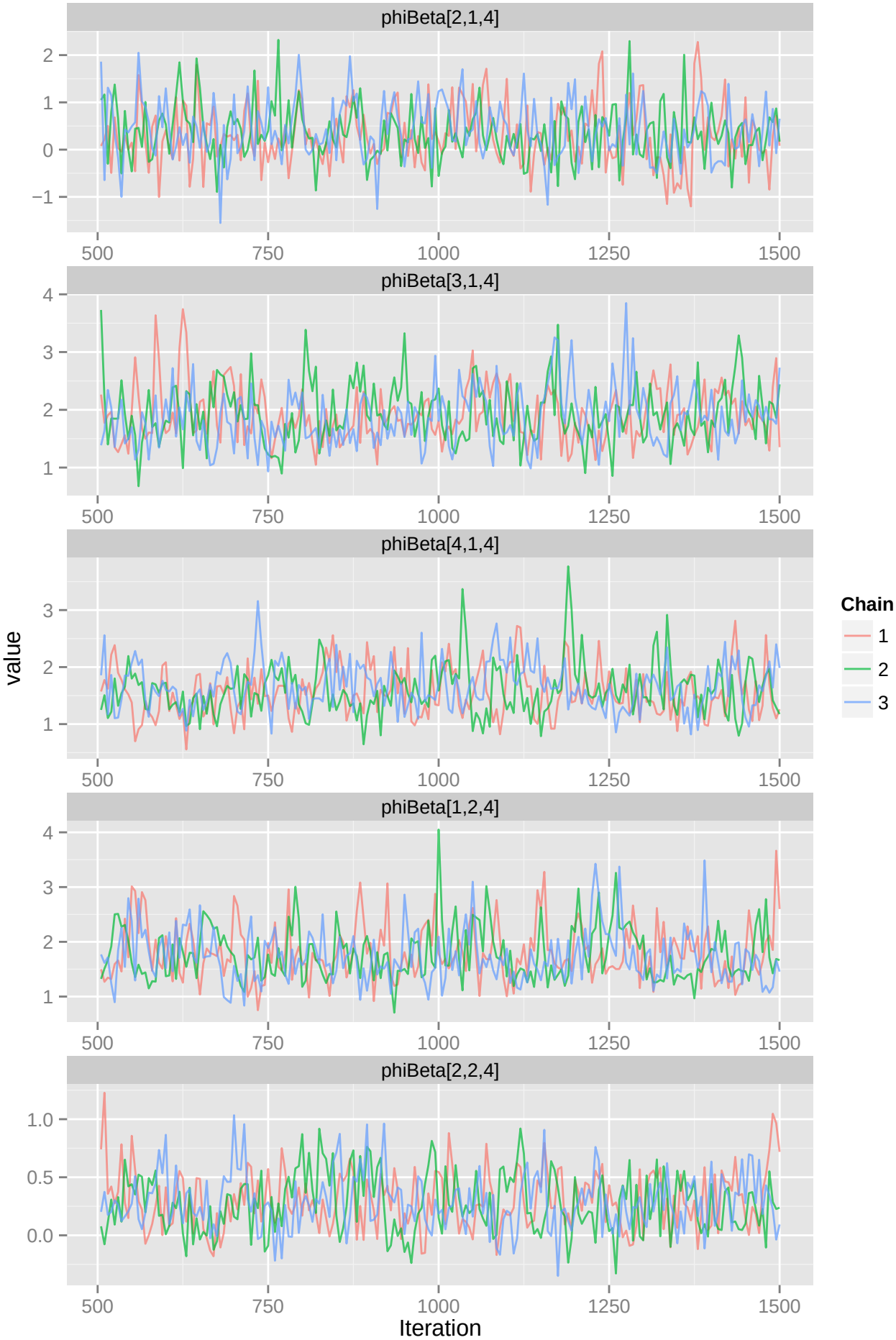
Iteration
Chain
1
2
3
500
750
1000
1250
1500

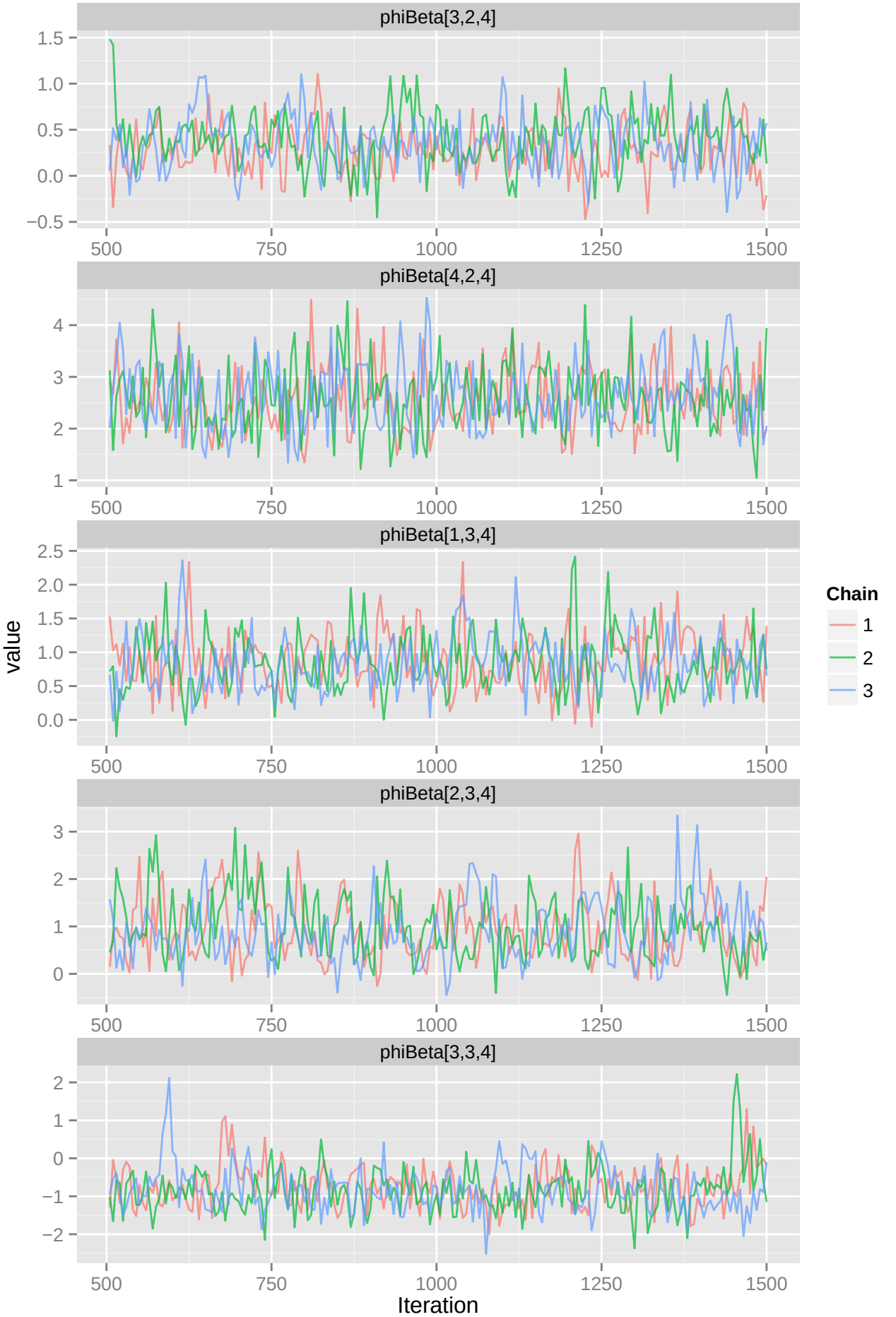

phiBeta[2,4,2]
phiBeta[3,4,2]
phiBeta[4,4,2]
phiBeta[1,1,3]
phiBeta[2,1,3]
value
Iteration
Chain
1
2
3

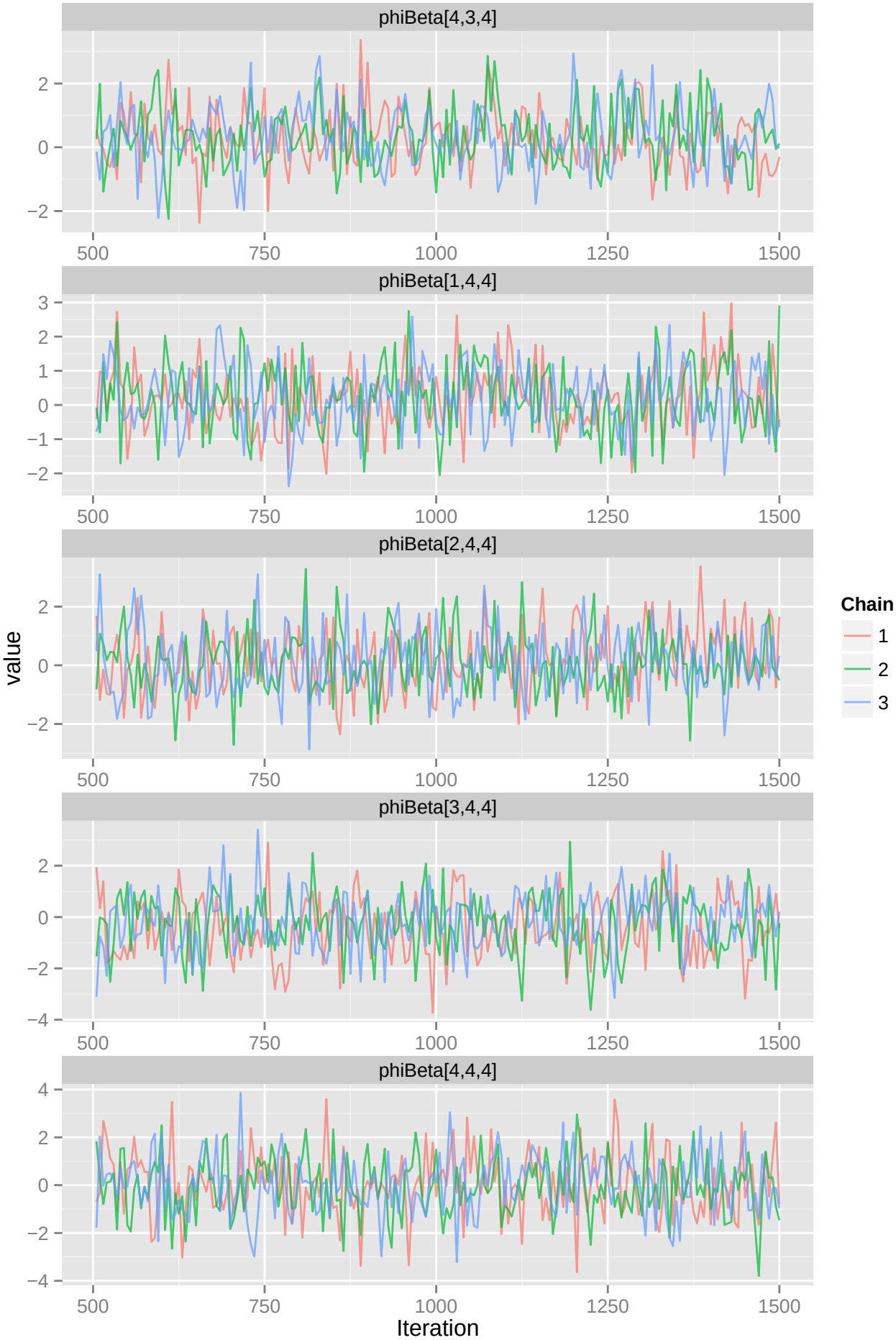

phiBeta[3,1,3]
phiBeta[4,1,3]
phiBeta[1,2,3]
phiBeta[2,2,3]
phiBeta[3,2,3]
value
Iteration
Chain
1
2
3
500
750
1000
1250
1500

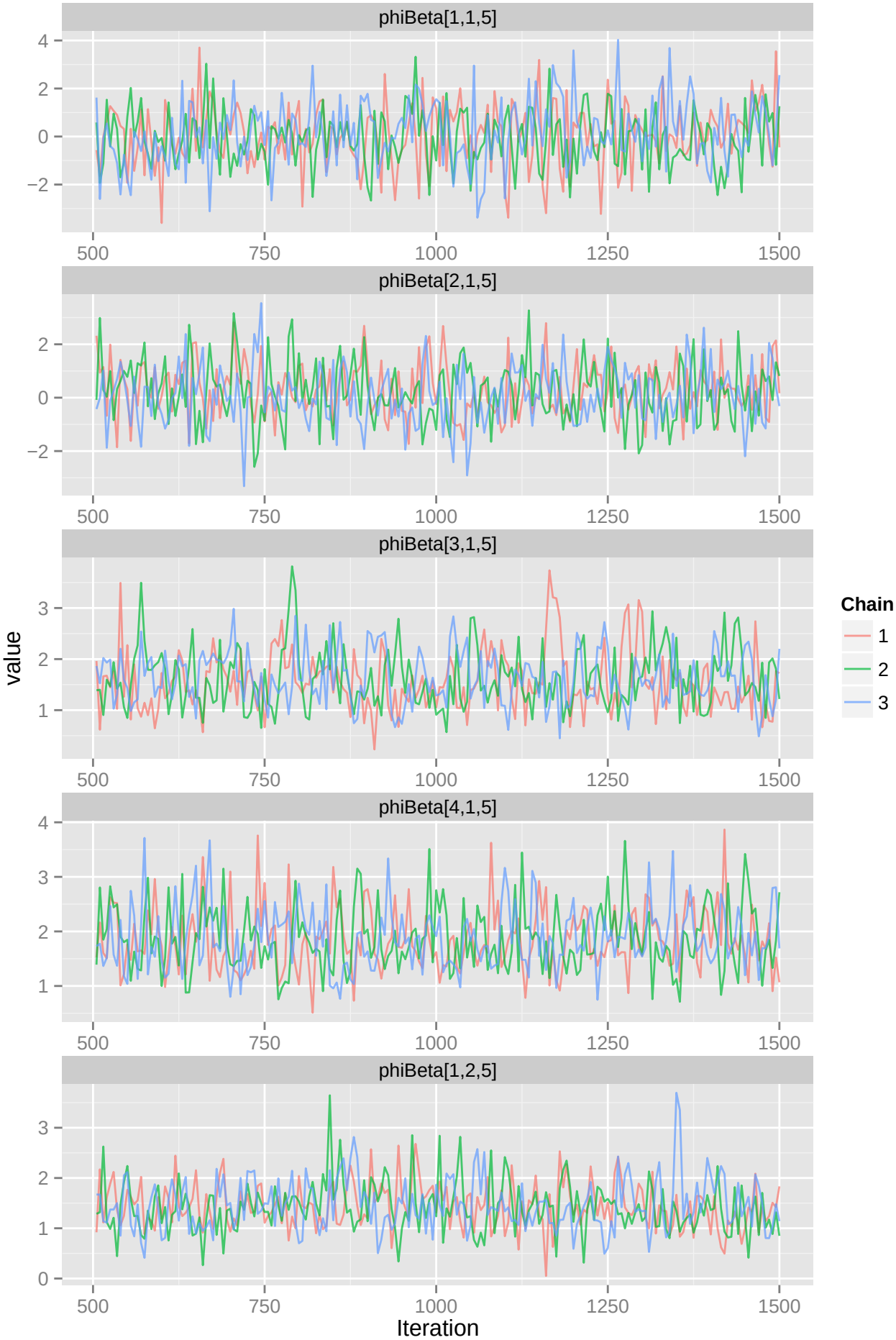

phiBeta[4,2,3]
phiBeta[1,3,3]
phiBeta[2,3,3]
phiBeta[3,3,3]
phiBeta[4,3,3]
value
Iteration
Chain
1
2
3

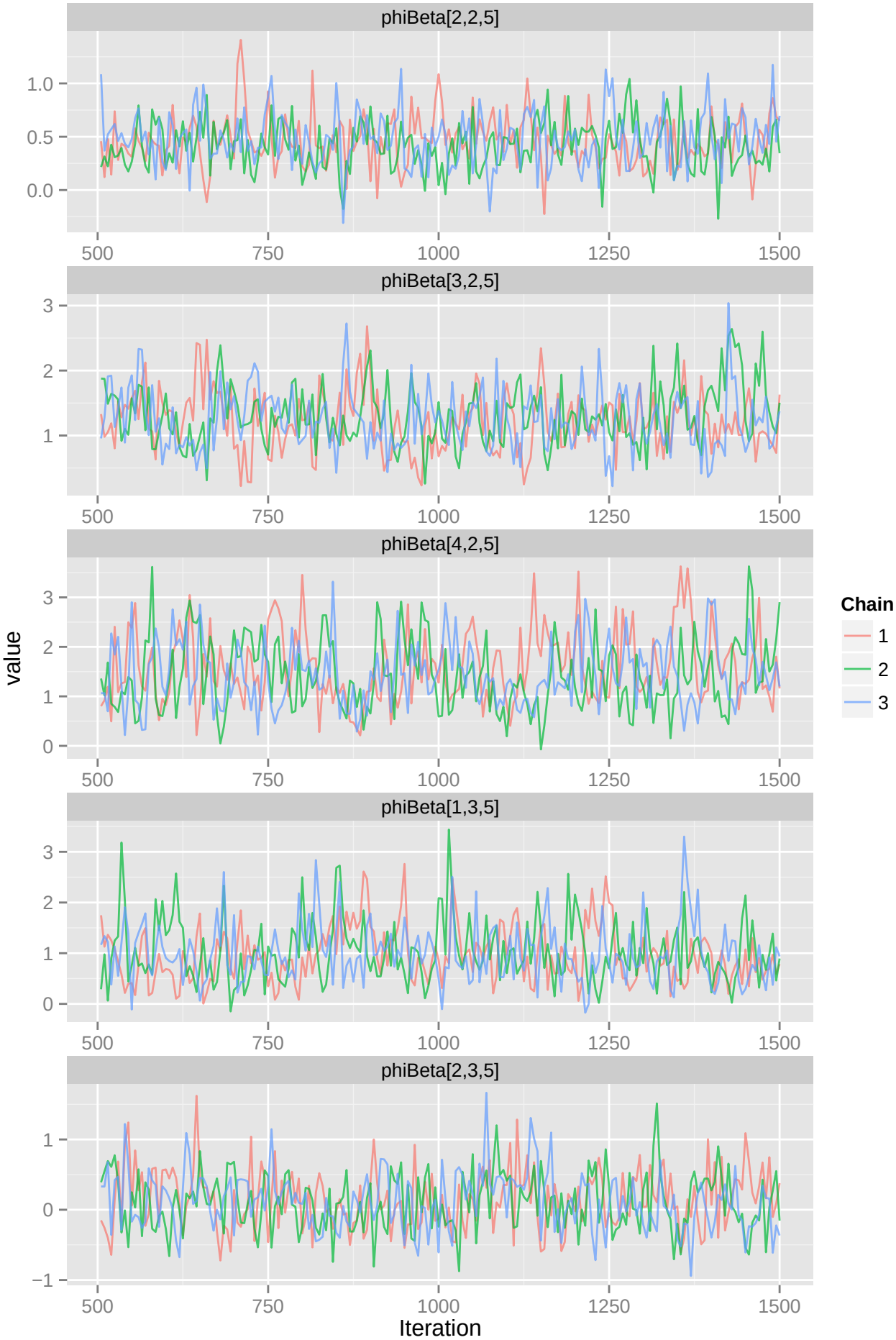

phiBeta[1,4,3]
phiBeta[2,4,3]
phiBeta[3,4,3]
phiBeta[4,4,3]
phiBeta[1,1,4]
value
Iteration
Chain
1
2
3

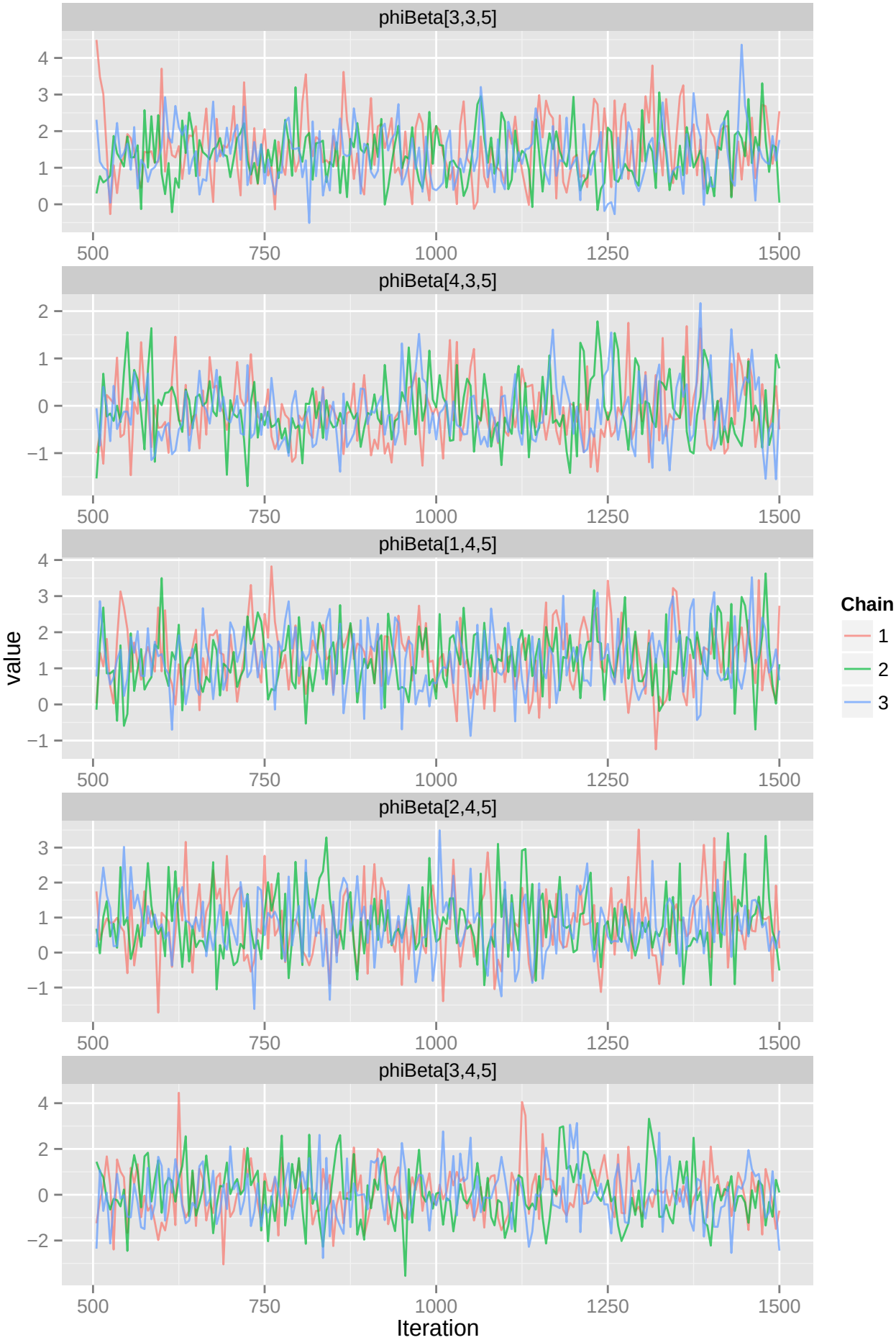

phiBeta[2,1,4]
phiBeta[3,1,4]
phiBeta[4,1,4]
phiBeta[1,2,4]
phiBeta[2,2,4]
value
Iteration
Chain
1
2
3

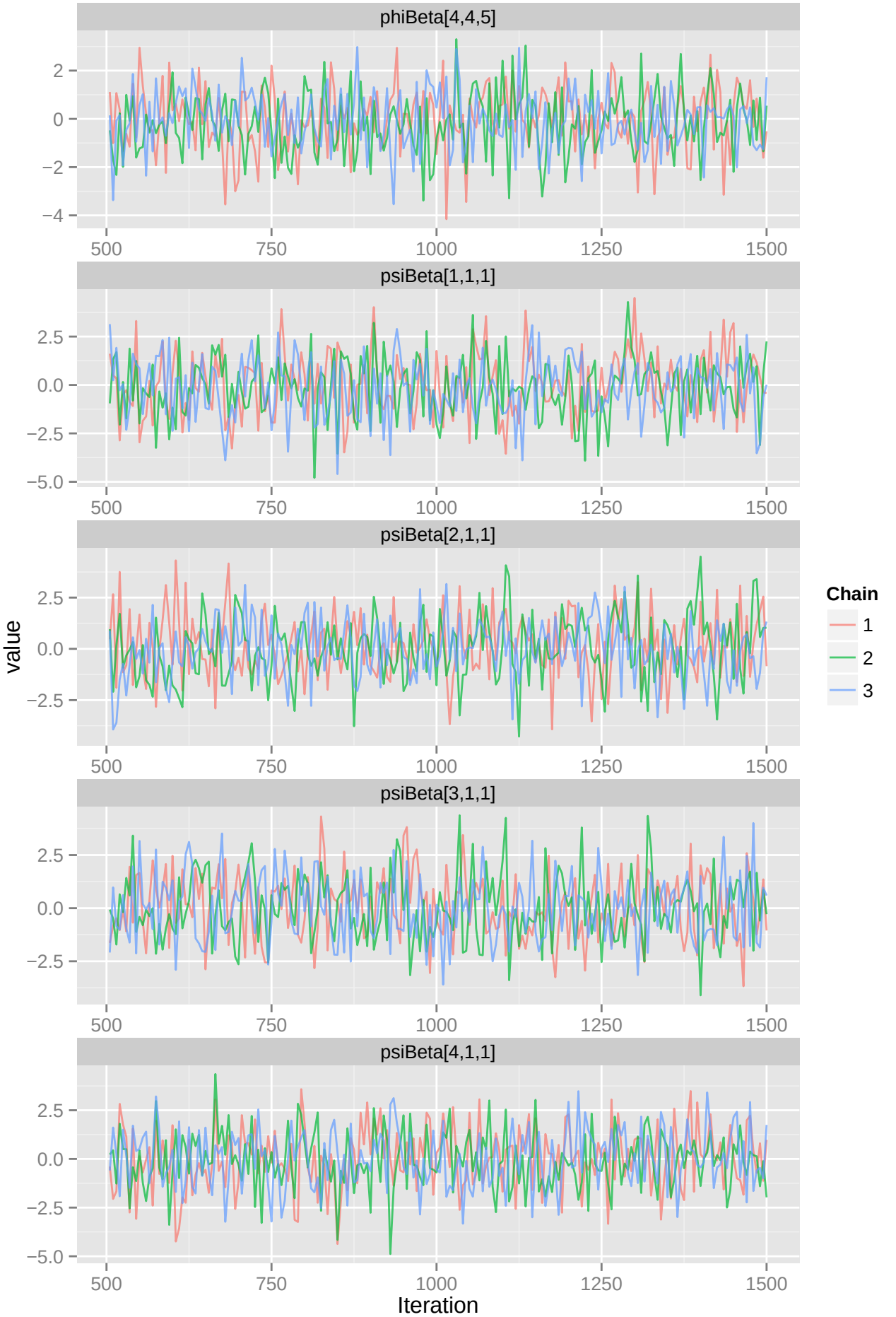

phiBeta[3,2,4]
phiBeta[4,2,4]
phiBeta[1,3,4]
phiBeta[2,3,4]
phiBeta[3,3,4]
value
Iteration
Chain
1
2
3

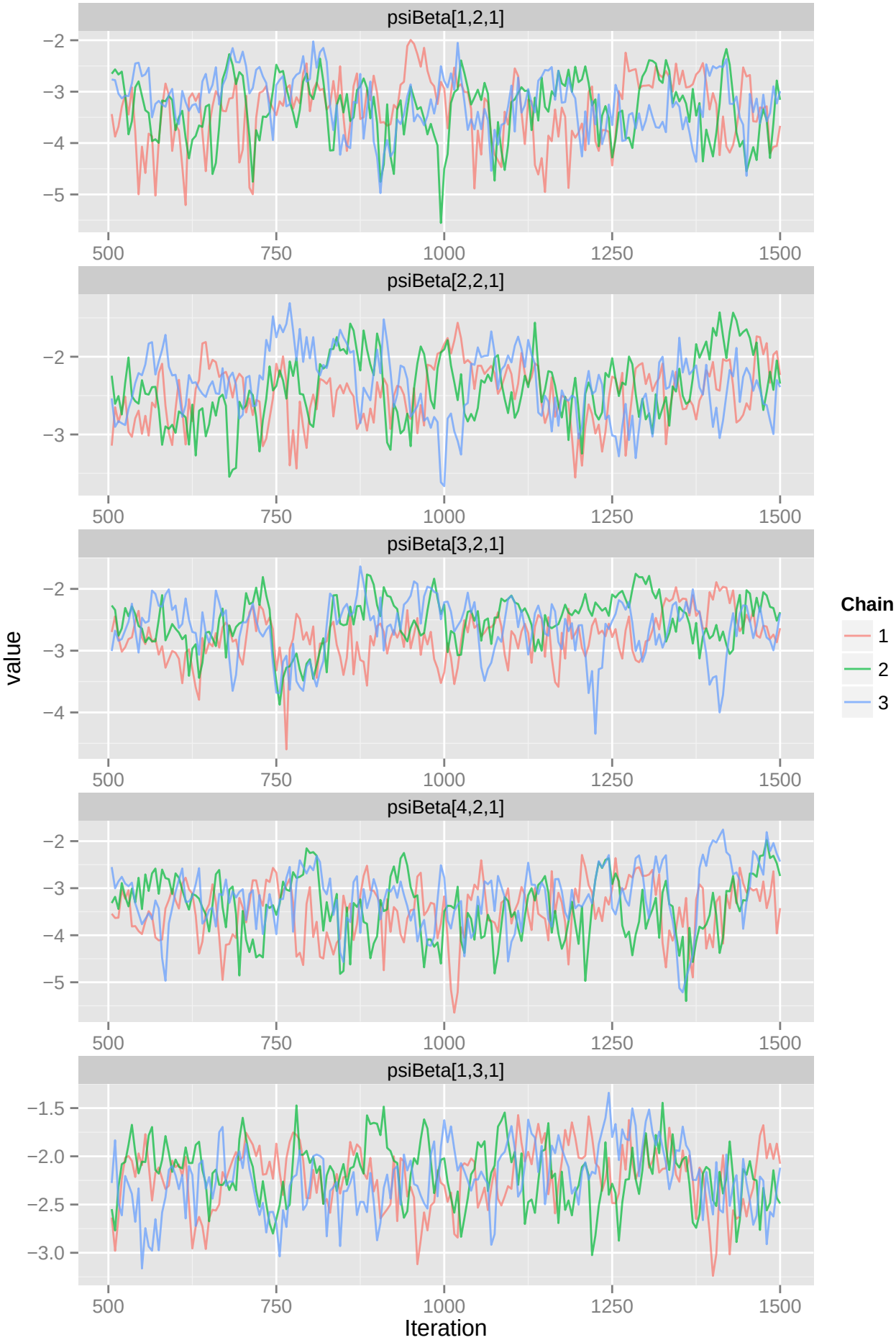

phiBeta[4,3,4]
phiBeta[1,4,4]
phiBeta[2,4,4]
phiBeta[3,4,4]
phiBeta[4,4,4]
value
Iteration
Chain
1
2
3

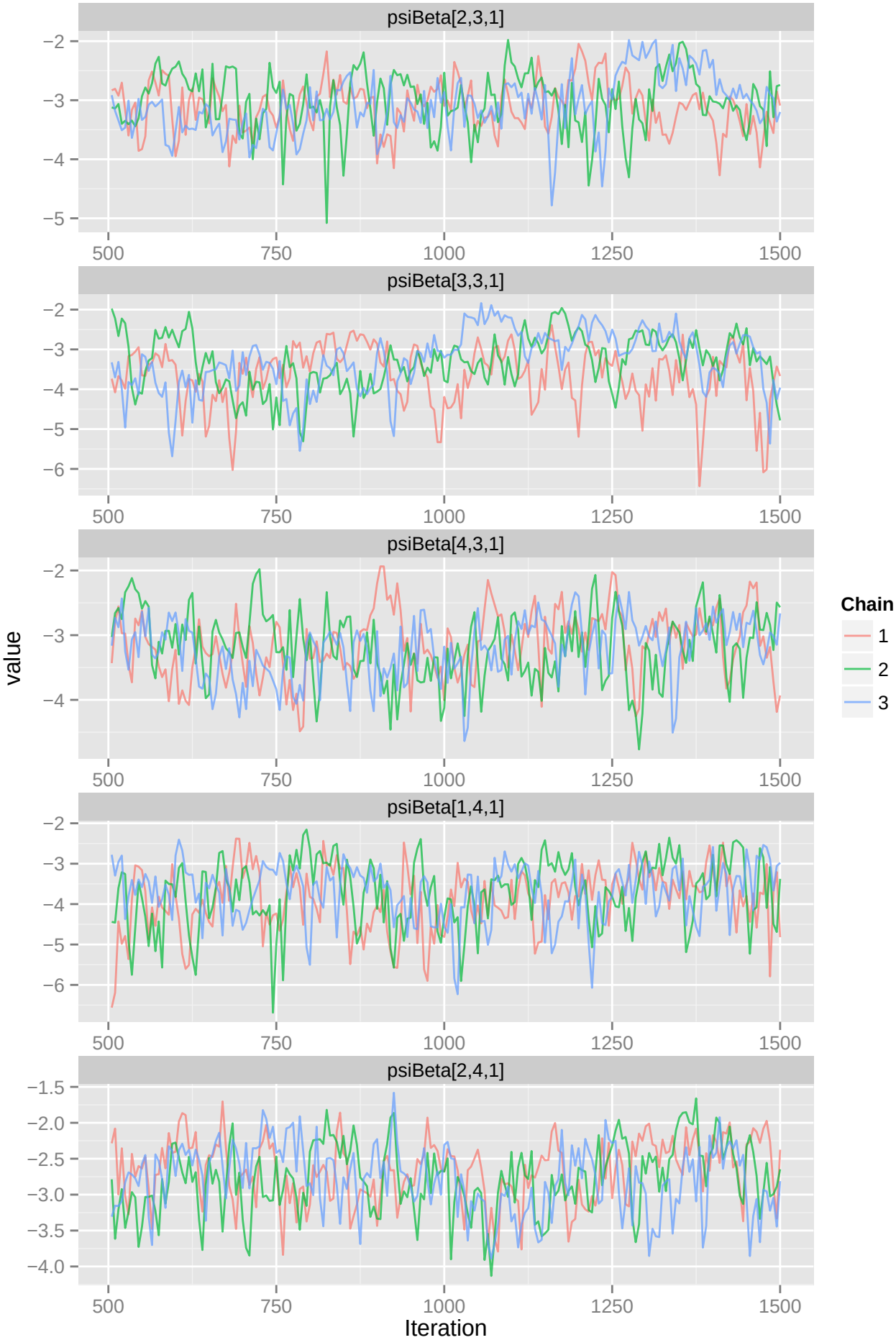

phiBeta[1,1,5]
phiBeta[2,1,5]
phiBeta[3,1,5]
phiBeta[4,1,5]
phiBeta[1,2,5]
value
Iteration
Chain
1
2
3

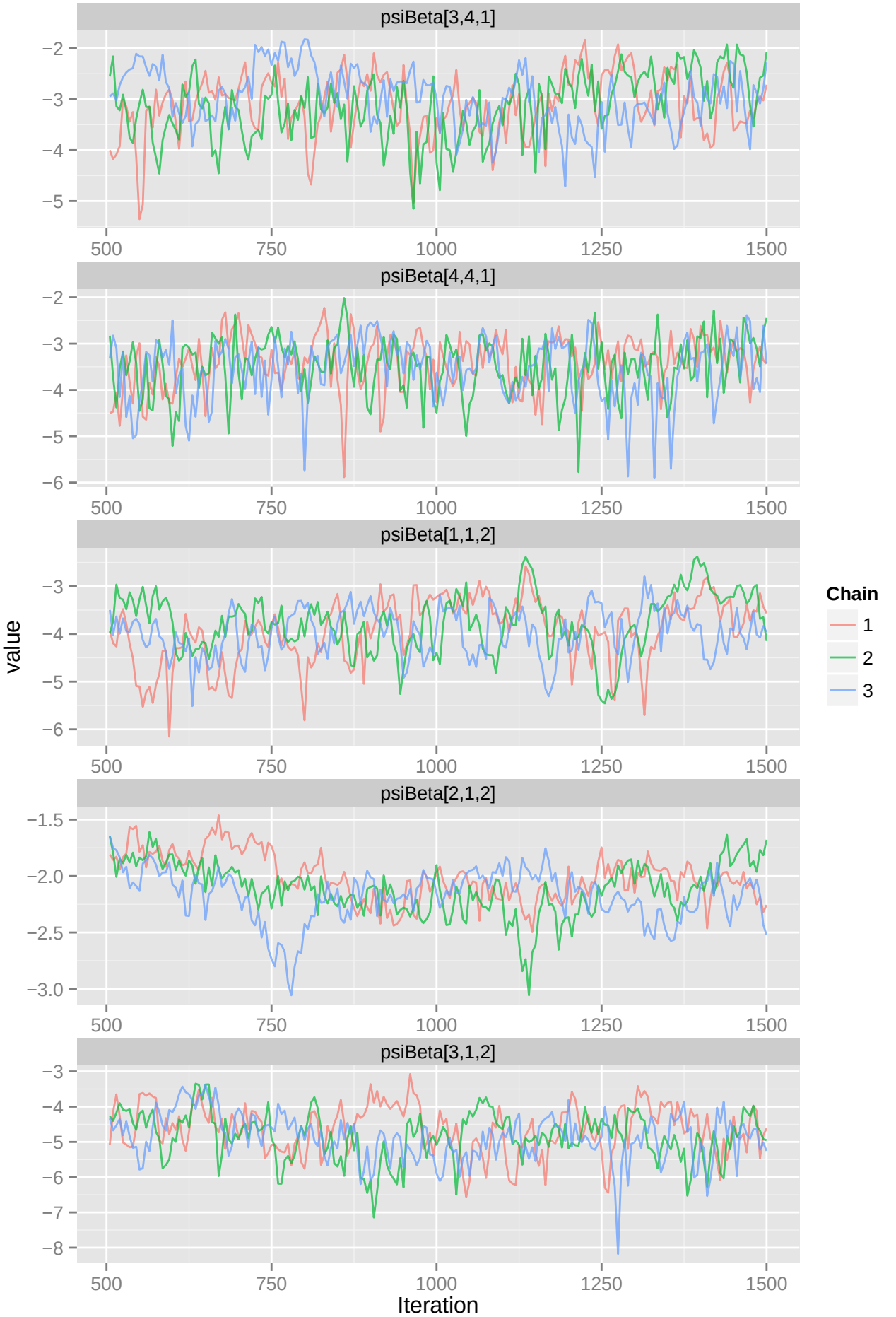

phiBeta[2,2,5]
phiBeta[3,2,5]
phiBeta[4,2,5]
phiBeta[1,3,5]
phiBeta[2,3,5]
value
Iteration
Chain
1
2
3

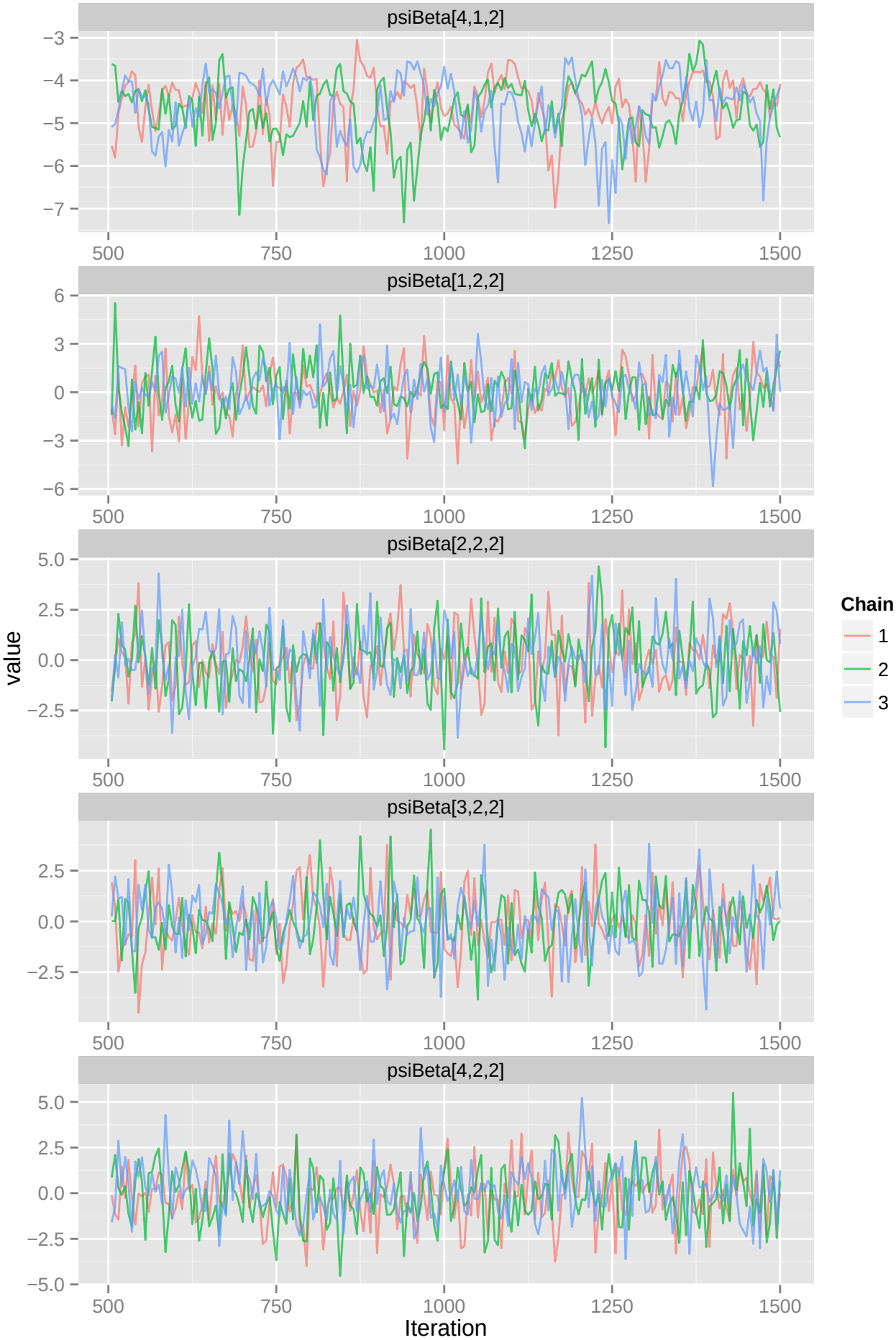

phiBeta[3,3,5]
phiBeta[4,3,5]
phiBeta[1,4,5]
phiBeta[2,4,5]
phiBeta[3,4,5]
value
Iteration
Chain
1
2
3

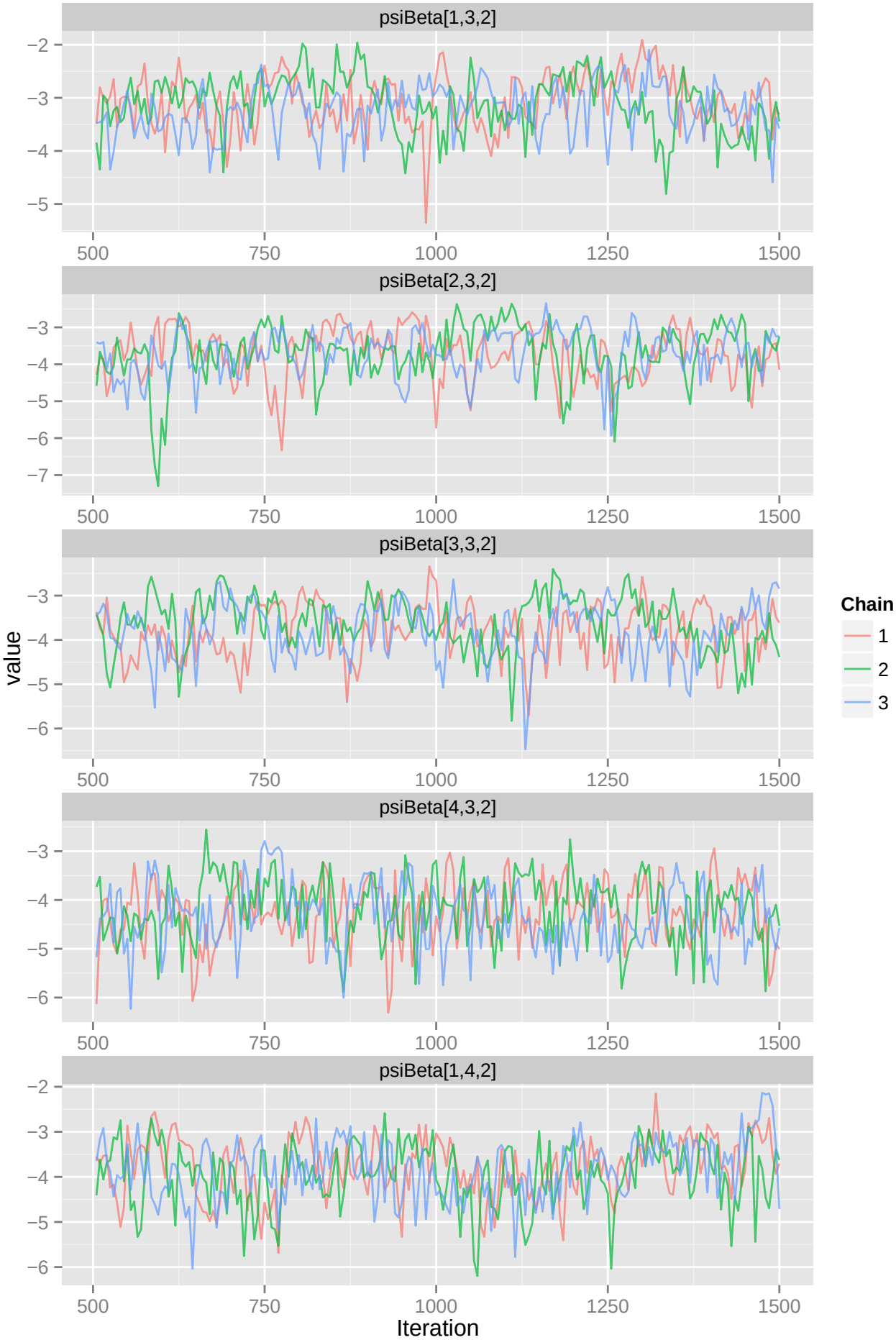

phiBeta[4,4,5]
psiBeta[1,1,1]
psiBeta[2,1,1]
psiBeta[3,1,1]
psiBeta[4,1,1]
value
Iteration
Chain
1
2
3

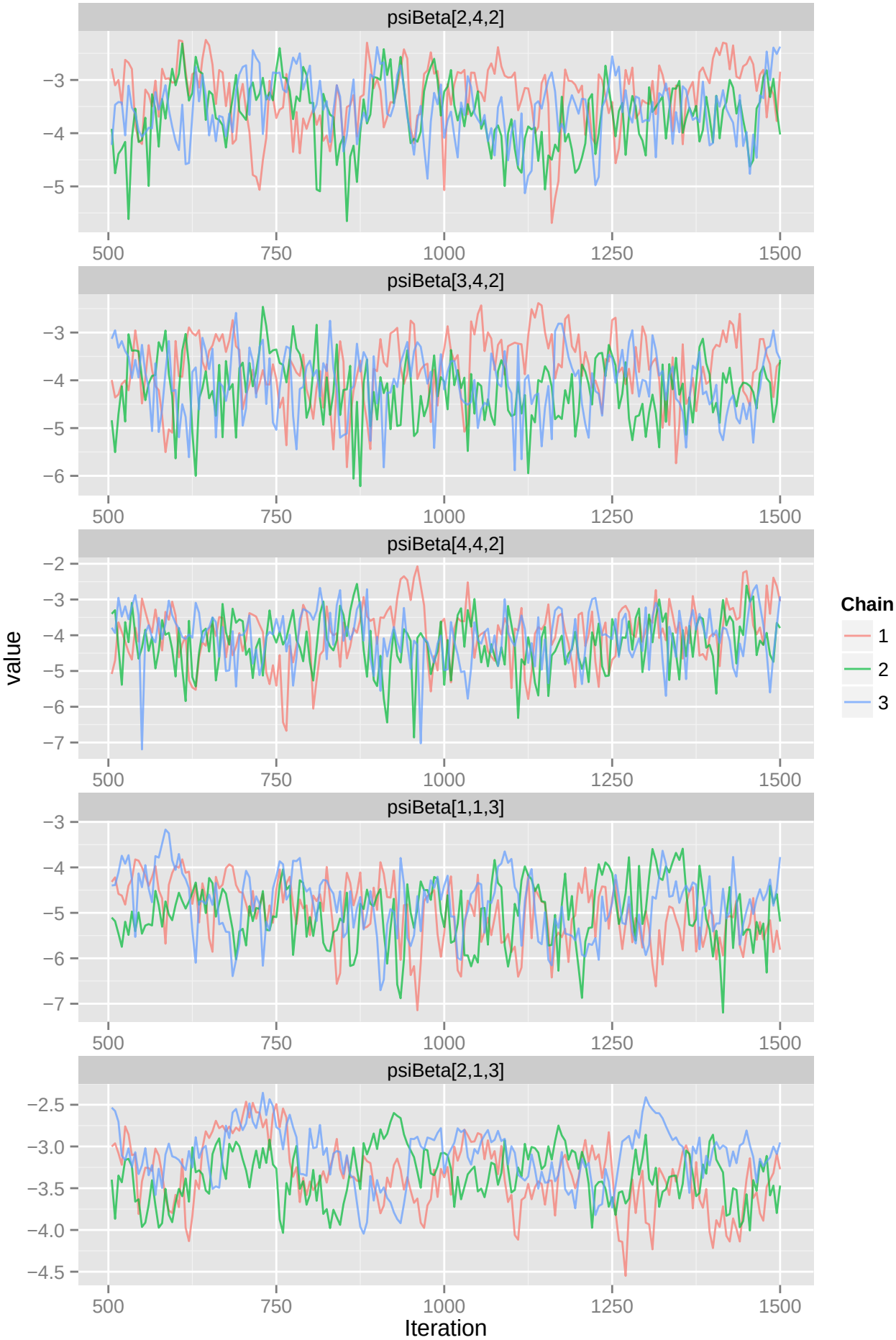

psiBeta[1,2,1]
psiBeta[2,2,1]
psiBeta[3,2,1]
psiBeta[4,2,1]
psiBeta[1,3,1]
value
Iteration
Chain
1
2
3

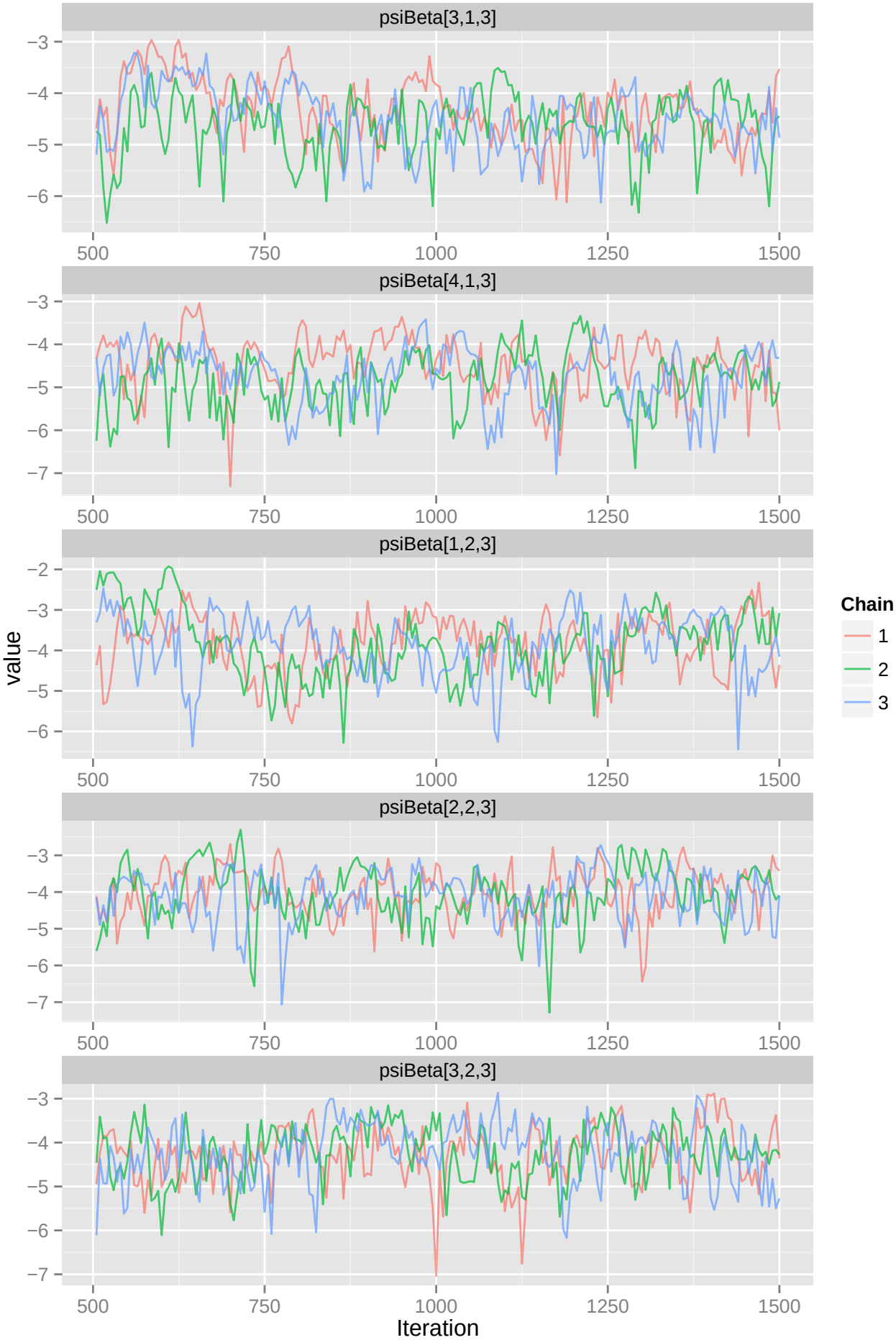

psiBeta[2,3,1]
psiBeta[3,3,1]
psiBeta[4,3,1]
psiBeta[1,4,1]
psiBeta[2,4,1]
value
Iteration
Chain
1
2
3

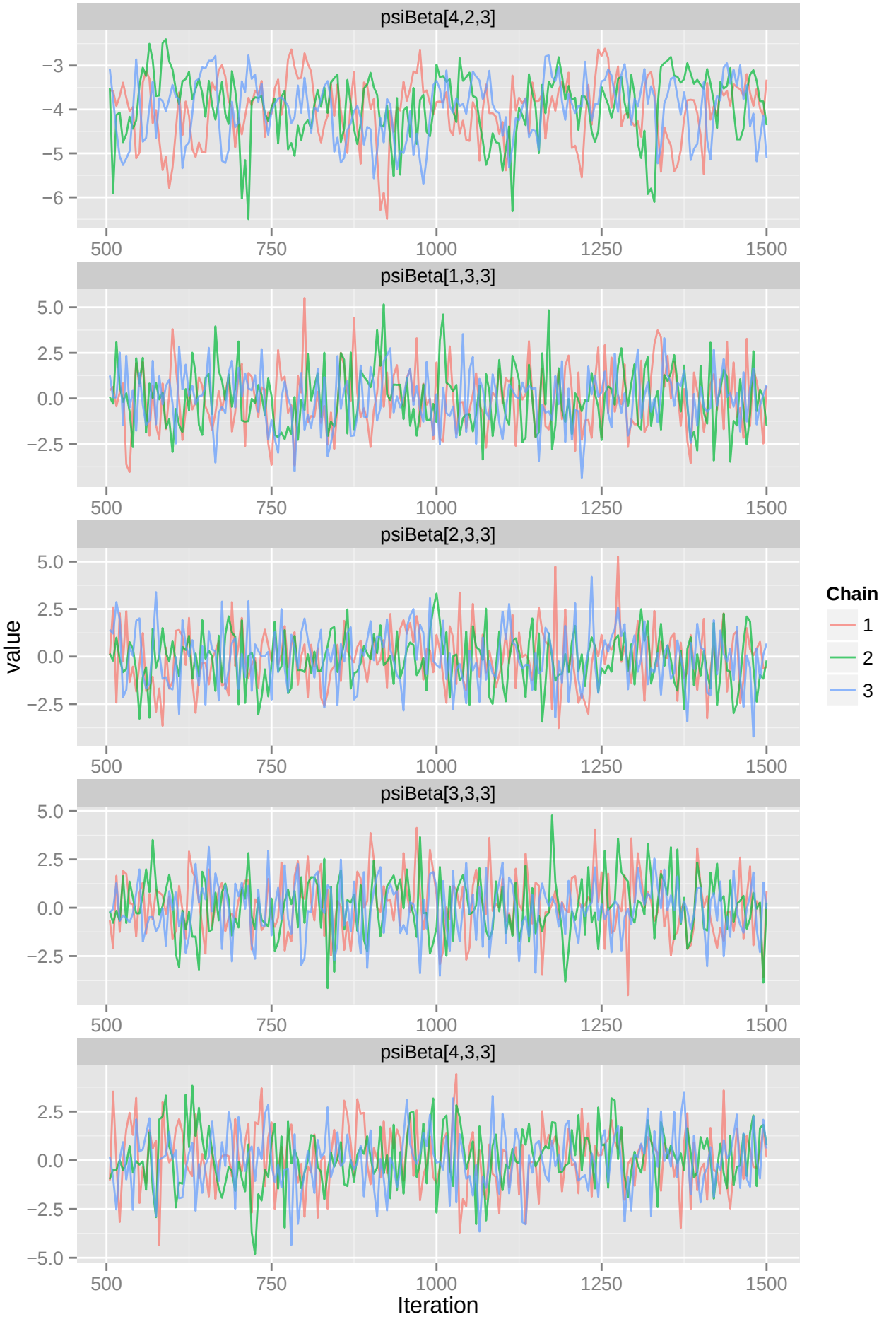

psiBeta[3,4,1]
psiBeta[4,4,1]
psiBeta[1,1,2]
psiBeta[2,1,2]
psiBeta[3,1,2]
value
Iteration
Chain
1
2
3

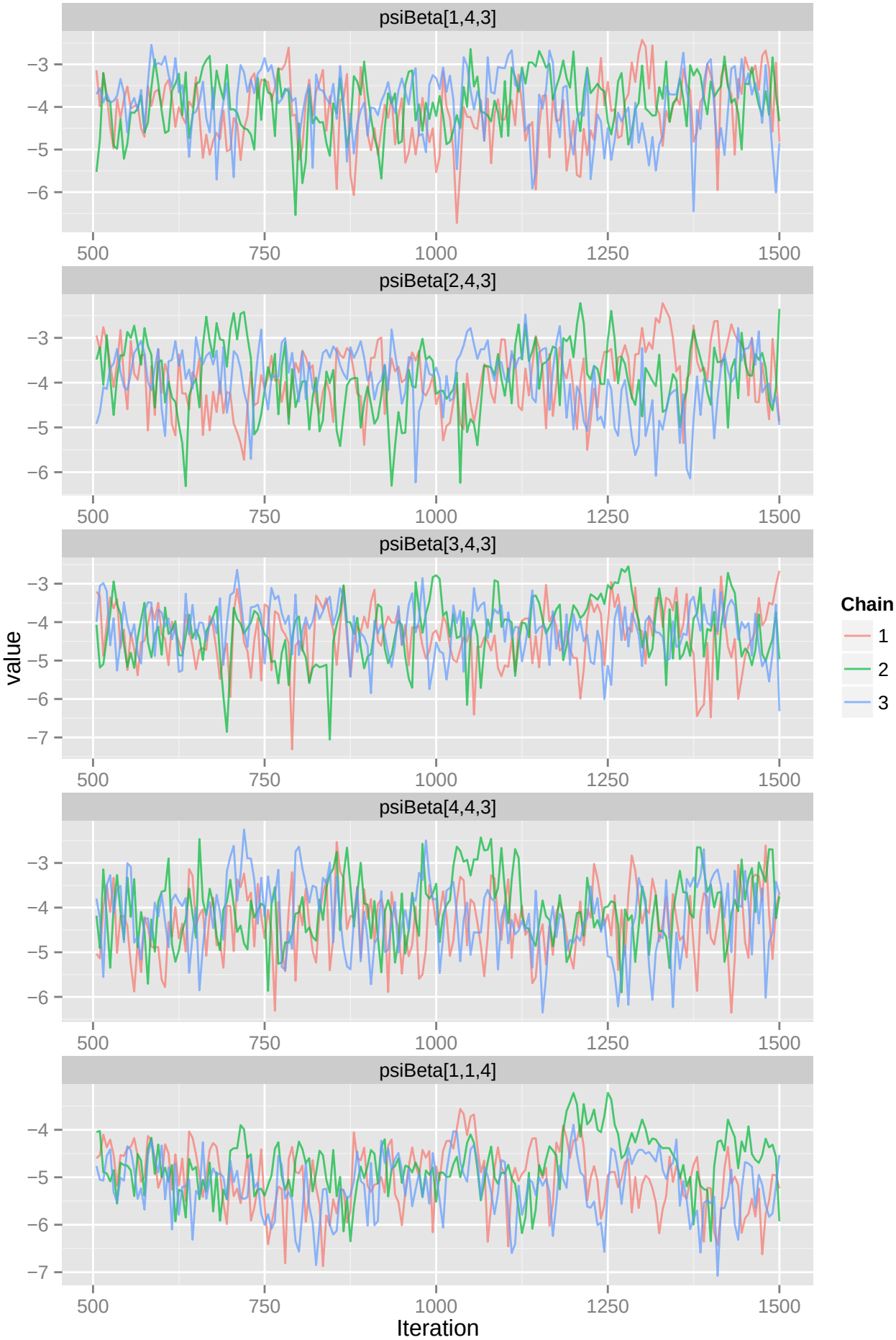

psiBeta[4,1,2]
psiBeta[1,2,2]
psiBeta[2,2,2]
psiBeta[3,2,2]
psiBeta[4,2,2]
value
Iteration
Chain
1
2
3

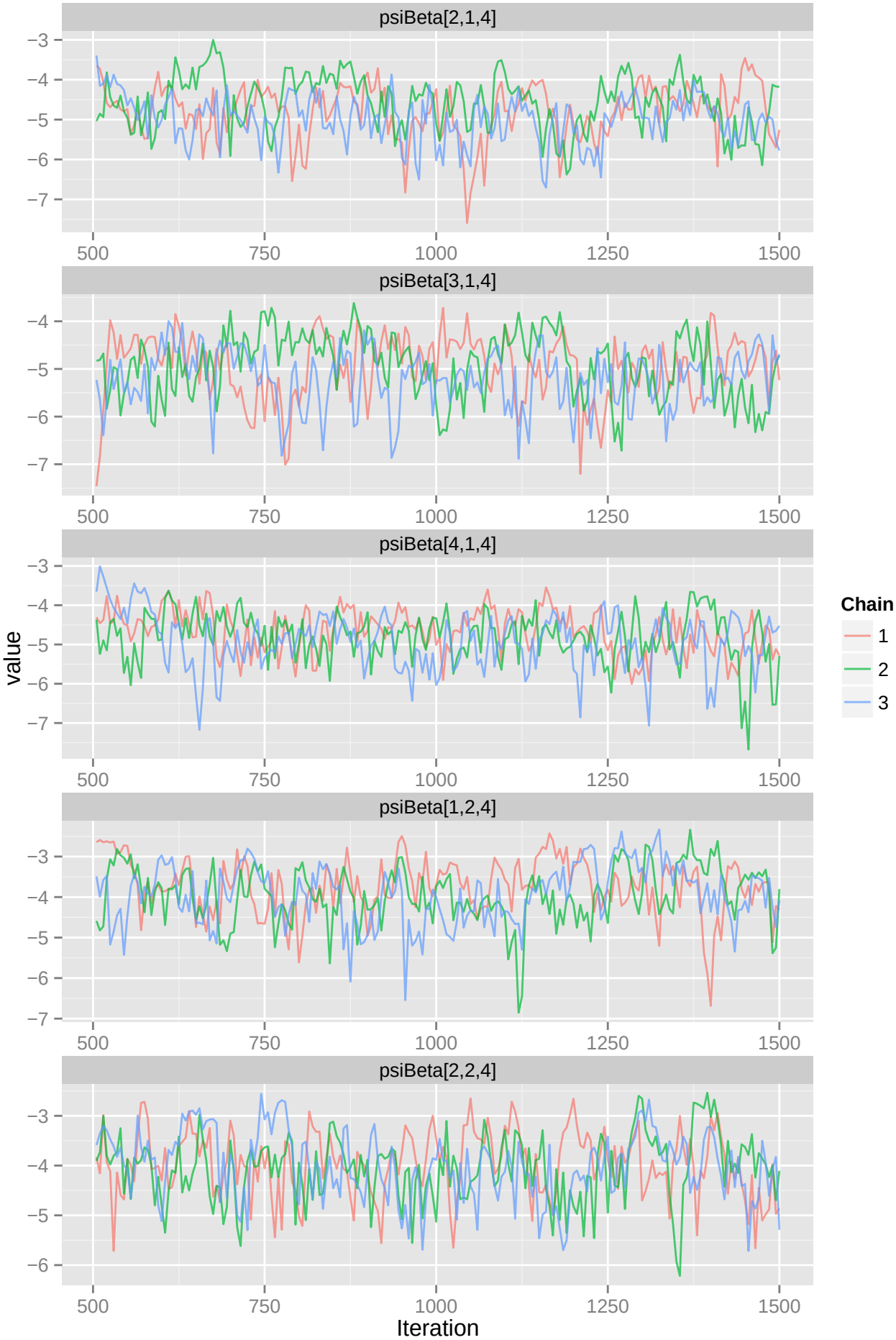

psiBeta[1,3,2]
psiBeta[2,3,2]
psiBeta[3,3,2]
psiBeta[4,3,2]
psiBeta[1,4,2]
value
Iteration
Chain
1
2
3

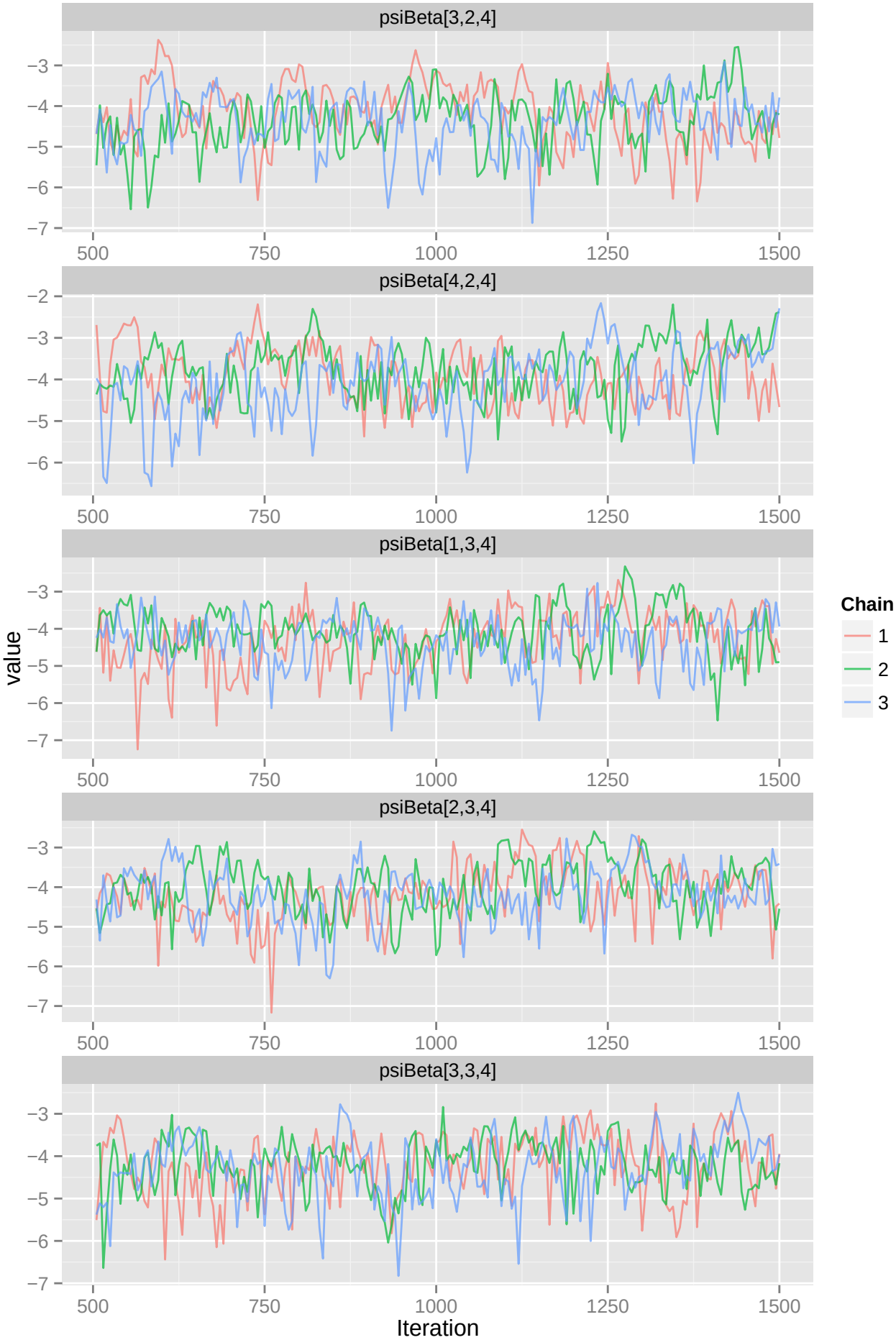

psiBeta[2,4,2]
psiBeta[3,4,2]
psiBeta[4,4,2]
psiBeta[1,1,3]
psiBeta[2,1,3]
value
Iteration
Chain
1
2
3

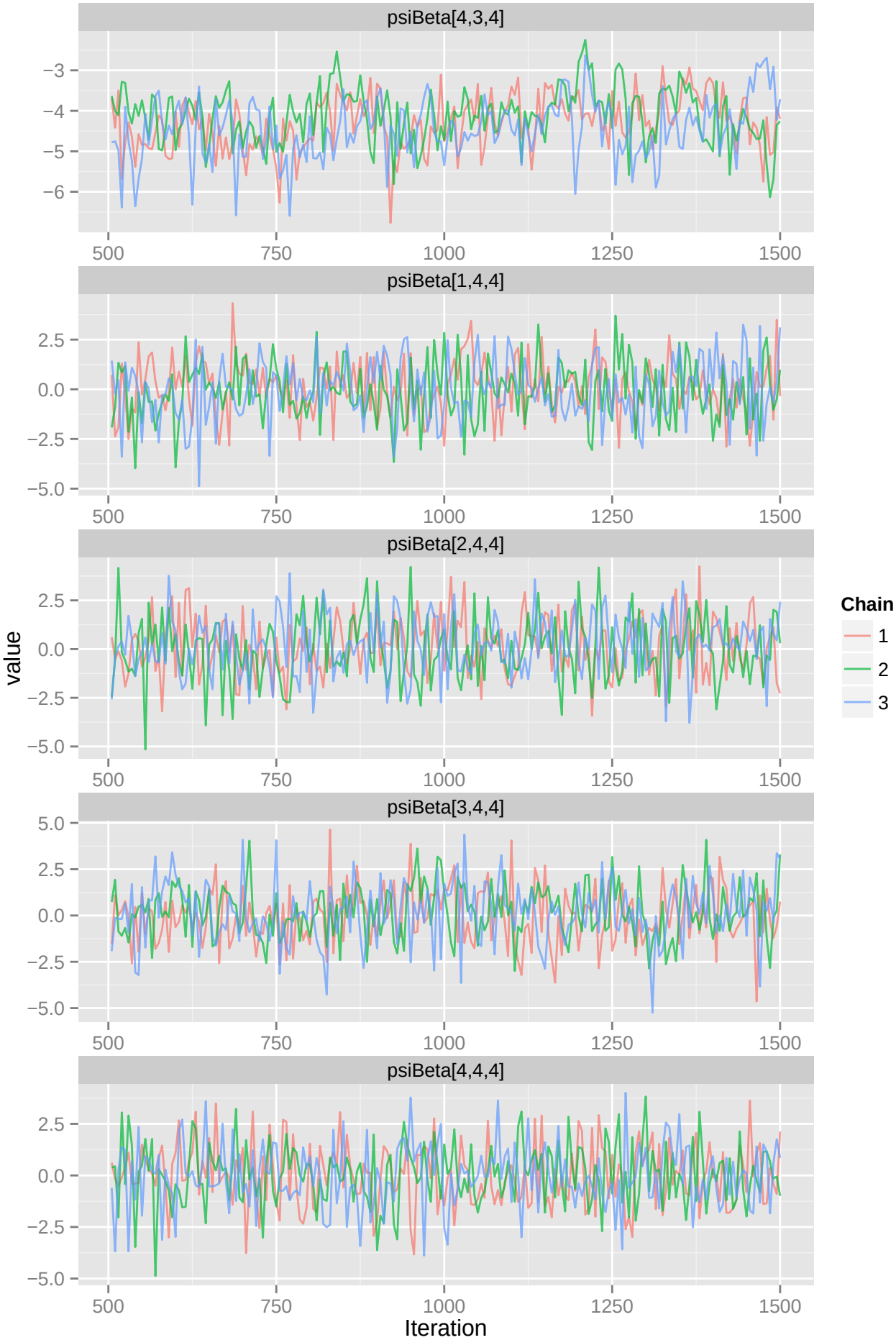

psiBeta[3,1,3]
psiBeta[4,1,3]
psiBeta[1,2,3]
psiBeta[2,2,3]
psiBeta[3,2,3]
value
Iteration
Chain
1
2
3

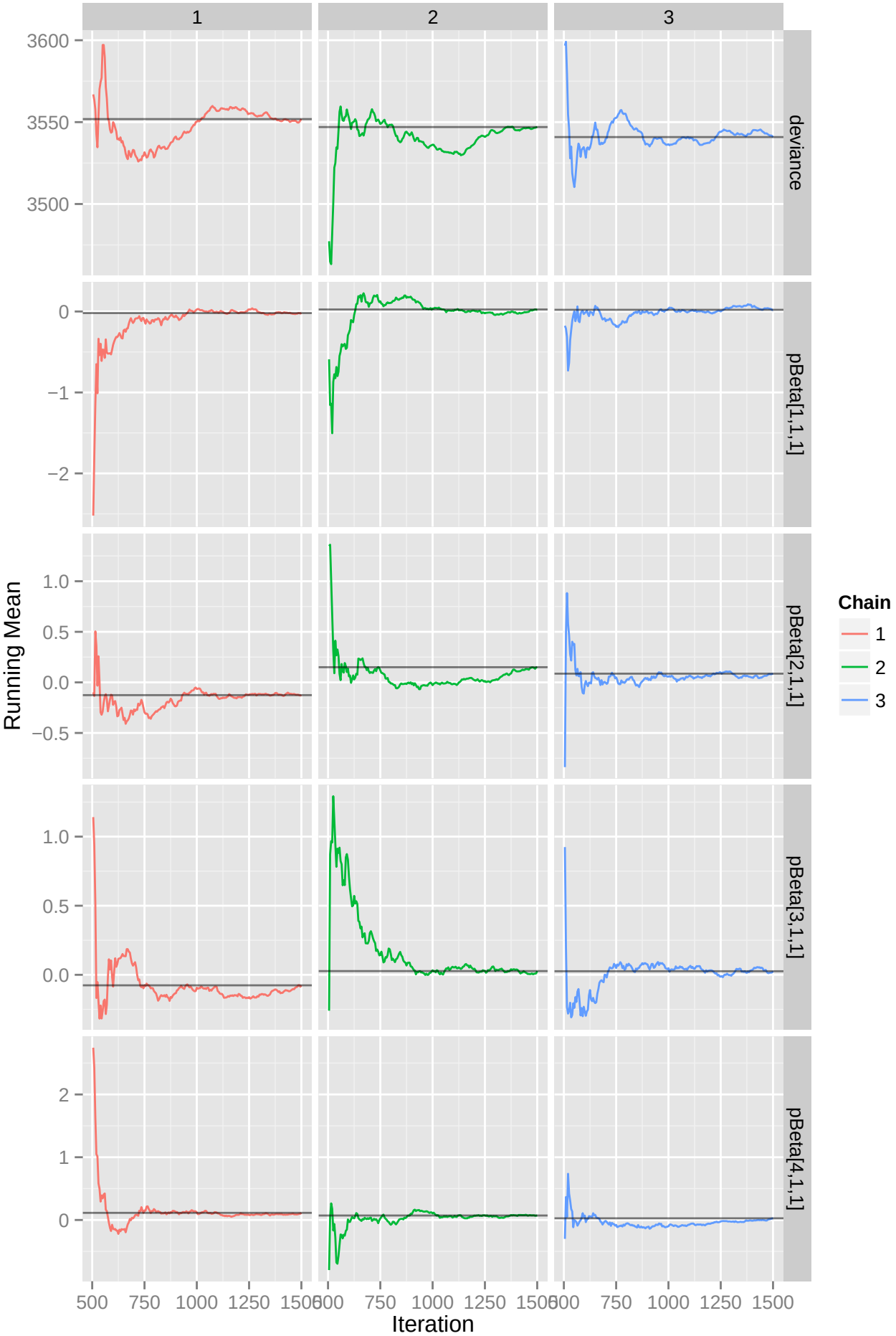

psiBeta[4,2,3]
psiBeta[1,3,3]
psiBeta[2,3,3]
psiBeta[3,3,3]
psiBeta[4,3,3]
value
Iteration
Chain
1
2
3

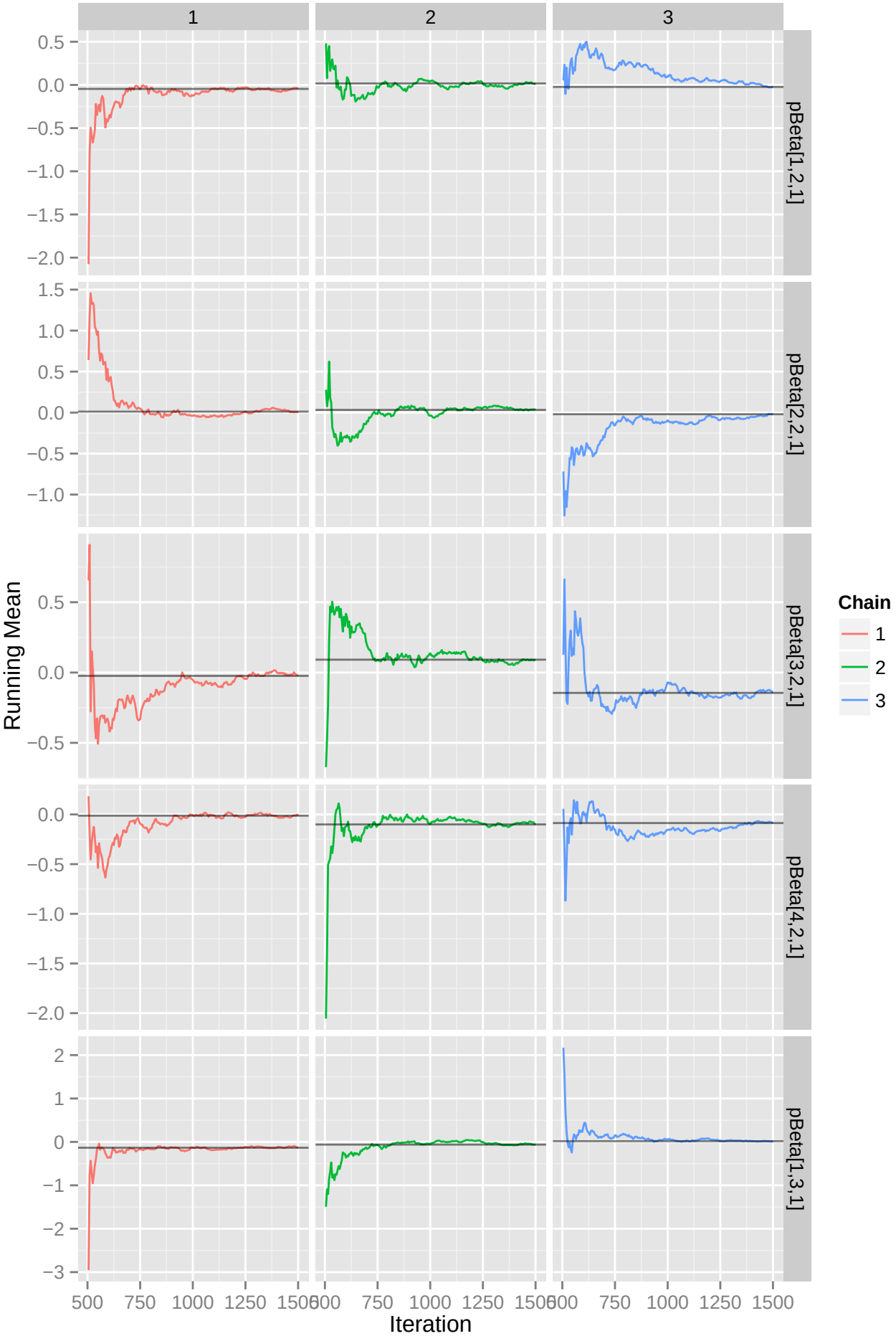

psiBeta[1,4,3]
psiBeta[2,4,3]
psiBeta[3,4,3]
psiBeta[4,4,3]
psiBeta[1,1,4]
value
Iteration
Chain
1
2
3

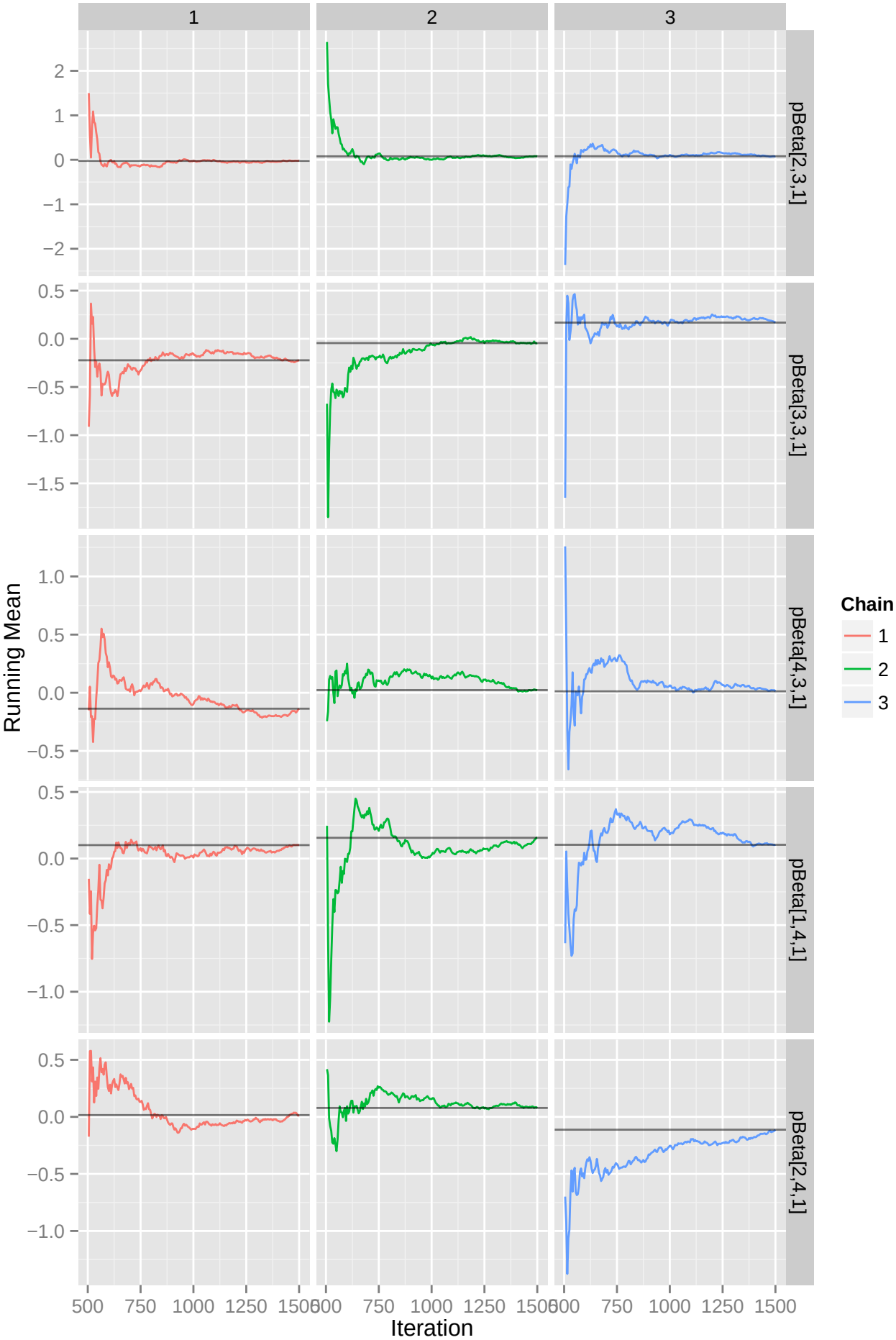

psiBeta[2,1,4]
psiBeta[3,1,4]
psiBeta[4,1,4]
psiBeta[1,2,4]
psiBeta[2,2,4]
value
Iteration
Chain
1
2
3

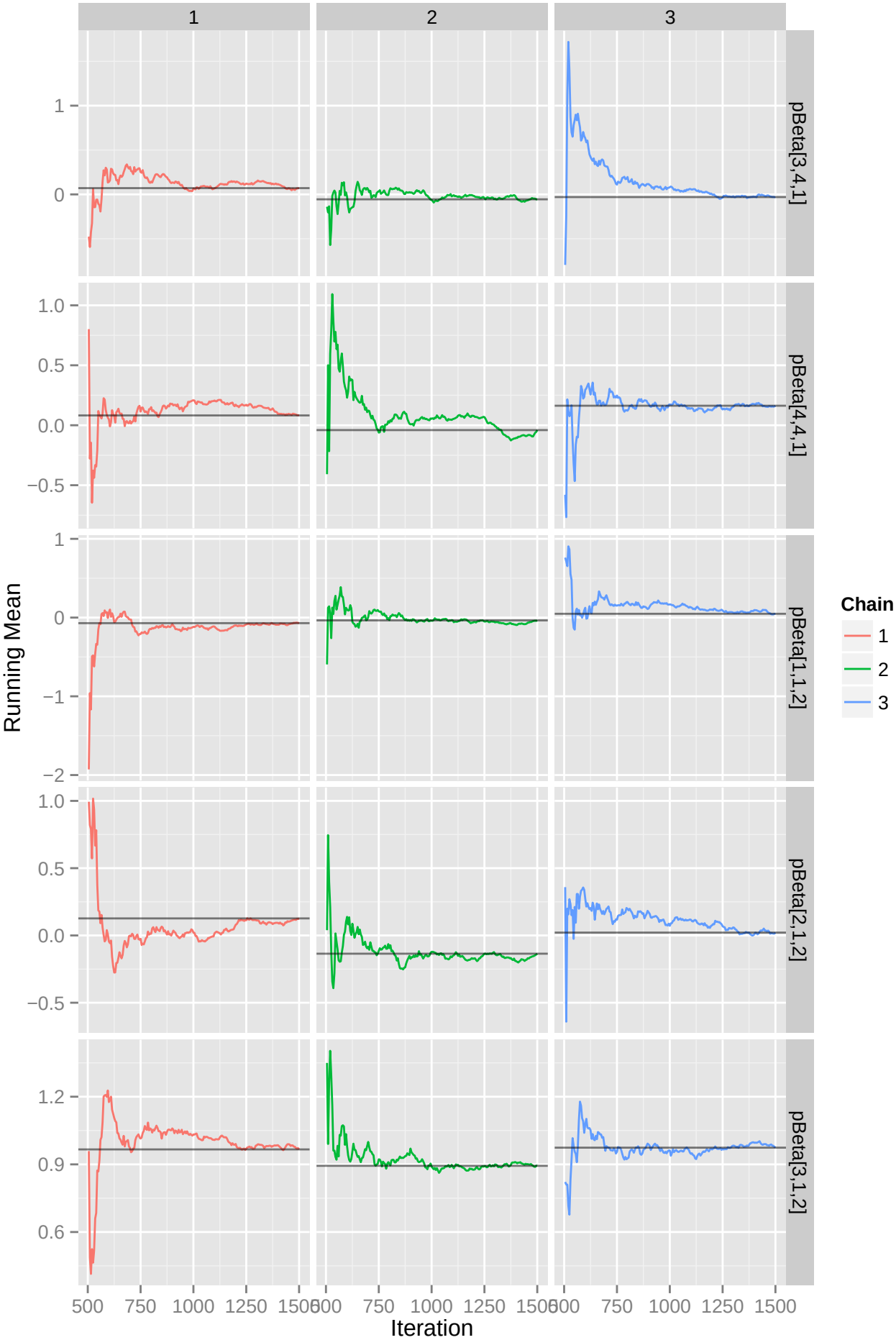

psiBeta[3,2,4]
psiBeta[4,2,4]
psiBeta[1,3,4]
psiBeta[2,3,4]
psiBeta[3,3,4]
value
Iteration
Chain
1
2
3

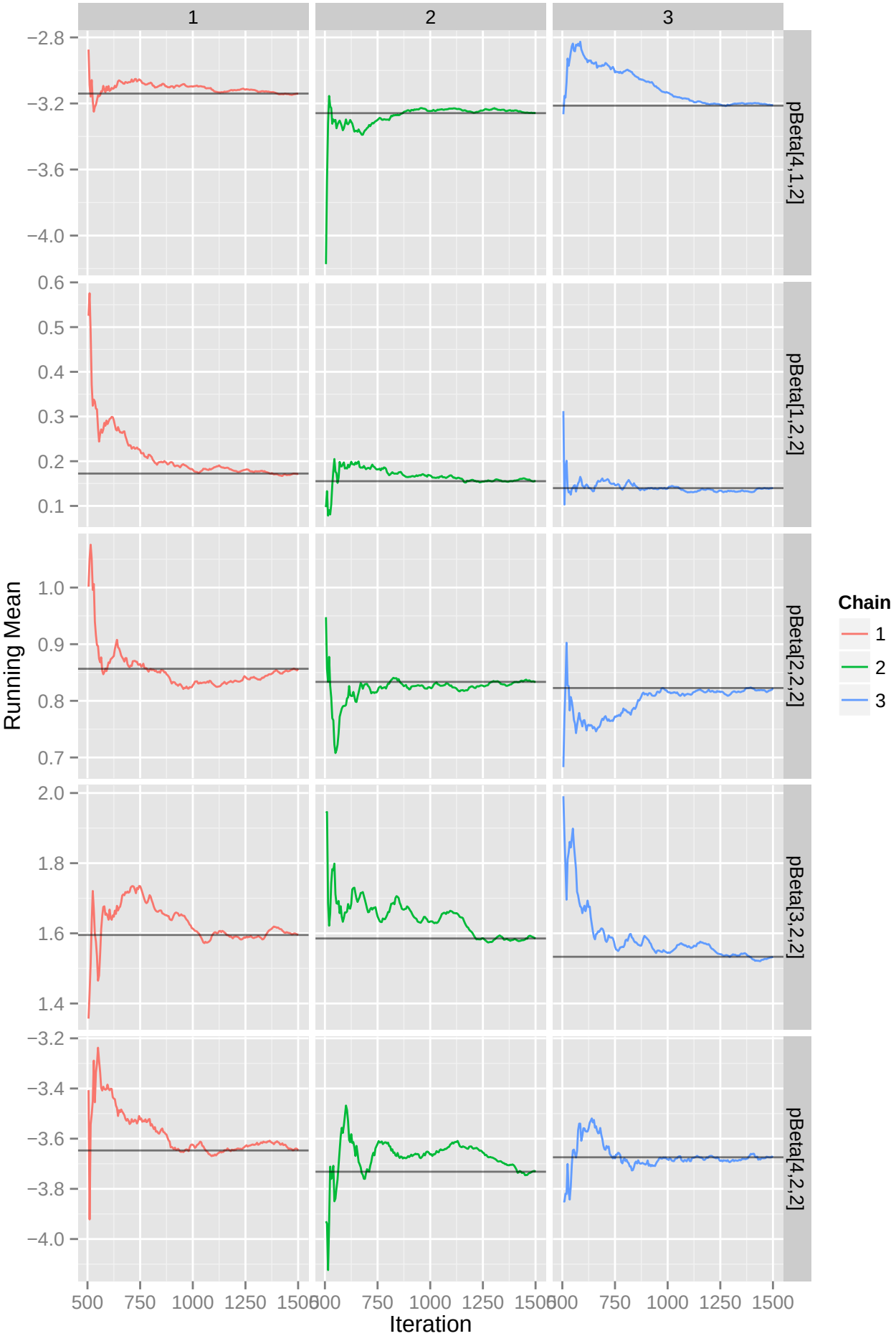

psiBeta[4,3,4]
psiBeta[1,4,4]
psiBeta[2,4,4]
psiBeta[3,4,4]
psiBeta[4,4,4]
value
Iteration
Chain
1
2
3

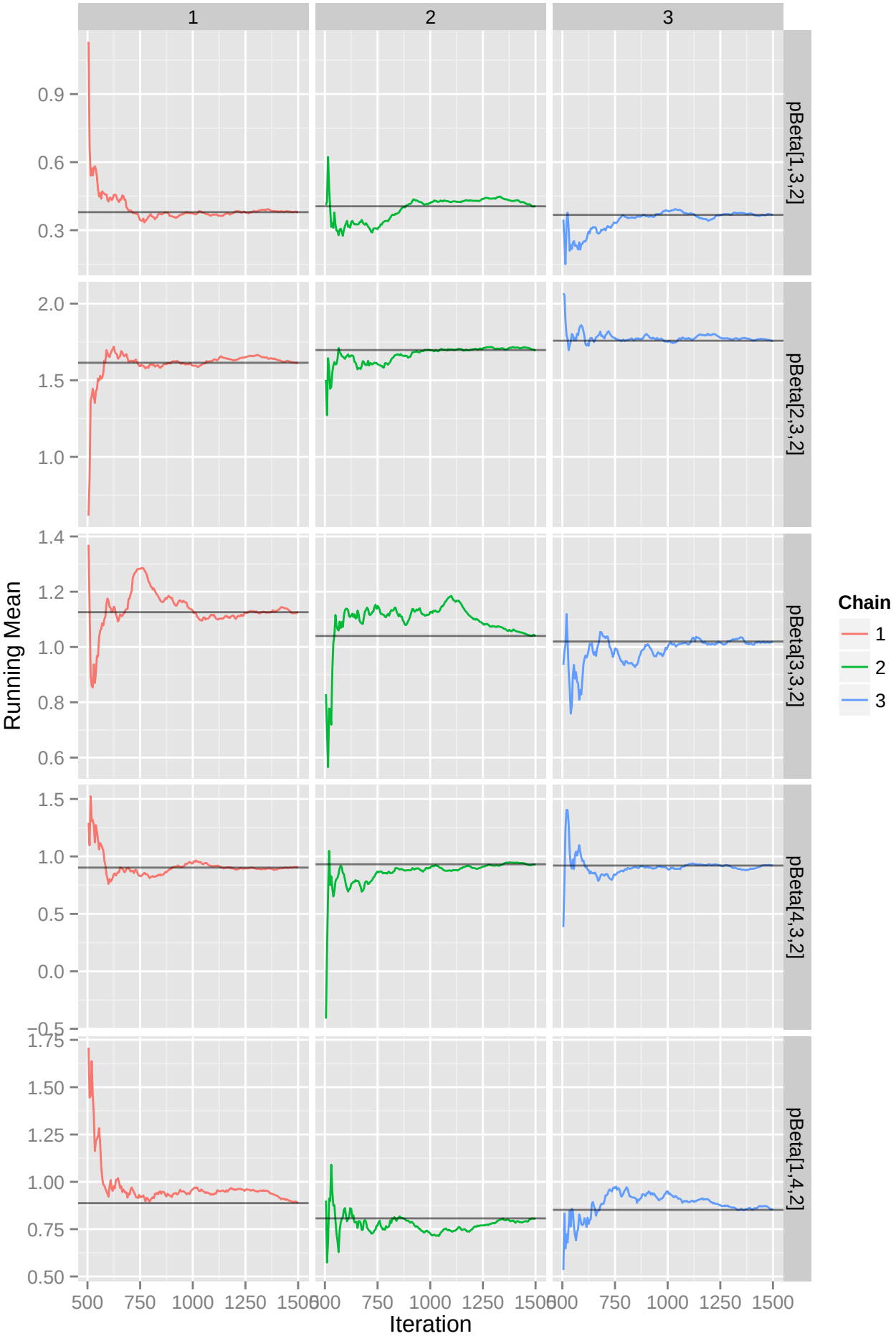

1
2
3
deviance
pBeta[1,1,1]
pBeta[2,1,1]
pBeta[3,1,1]
pBeta[4,1,1]
Running Mean
Iteration
Chain
1
2
3
3600
3550
3500
0
−1
−2
1.0
0.5
0.0
−0.5
2
1
500
750
1000
1250
1500

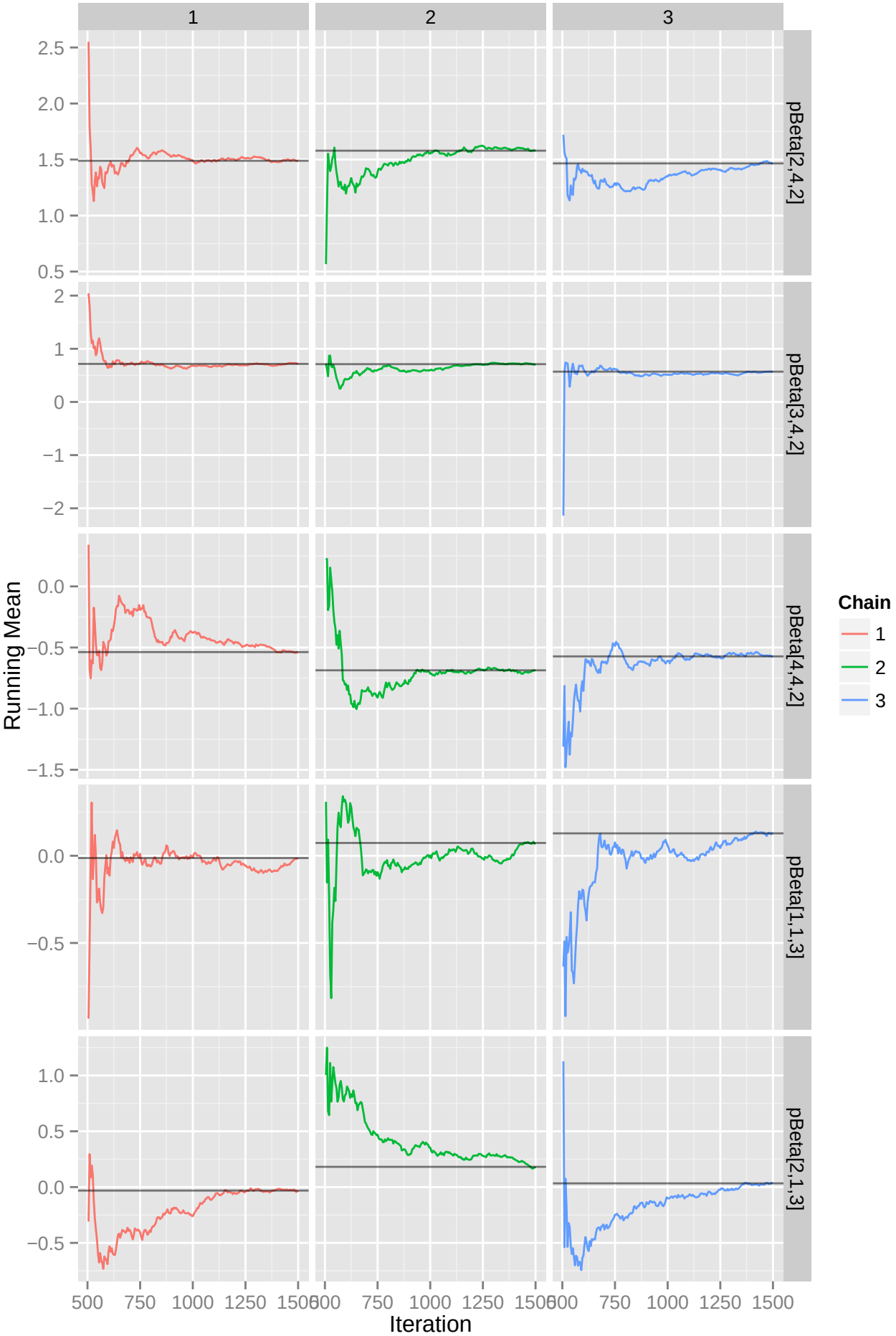

1
2
3
pBeta[1,2,1]
pBeta[2,2,1]
pBeta[3,2,1]
pBeta[4,2,1]
pBeta[1,3,1]
Running Mean
Iteration
Chain
1
2
3

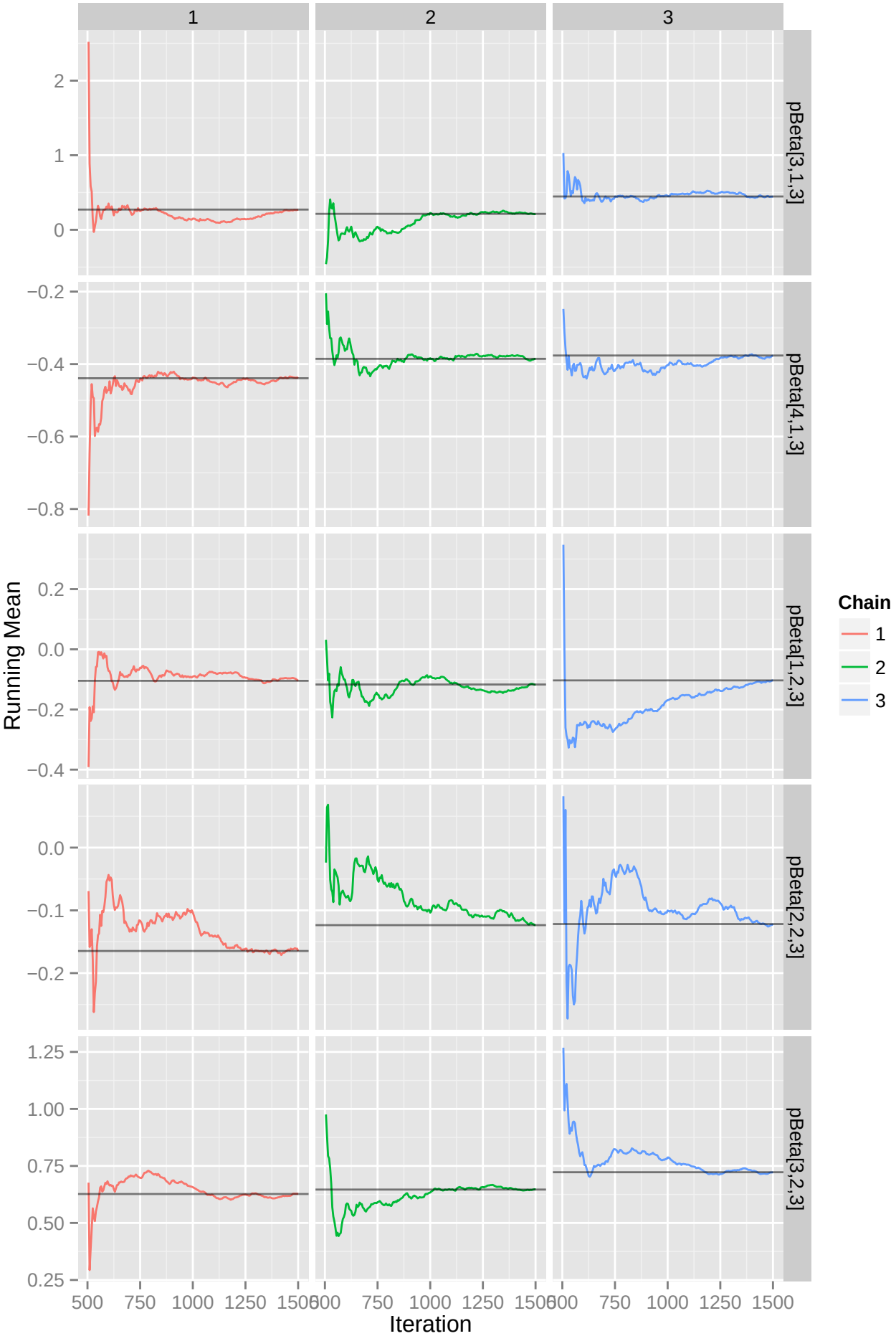

1
2
3
pBeta[2,3,1]
pBeta[3,3,1]
pBeta[4,3,1]
pBeta[1,4,1]
pBeta[2,4,1]
Running Mean
Iteration
Chain
1
2
3

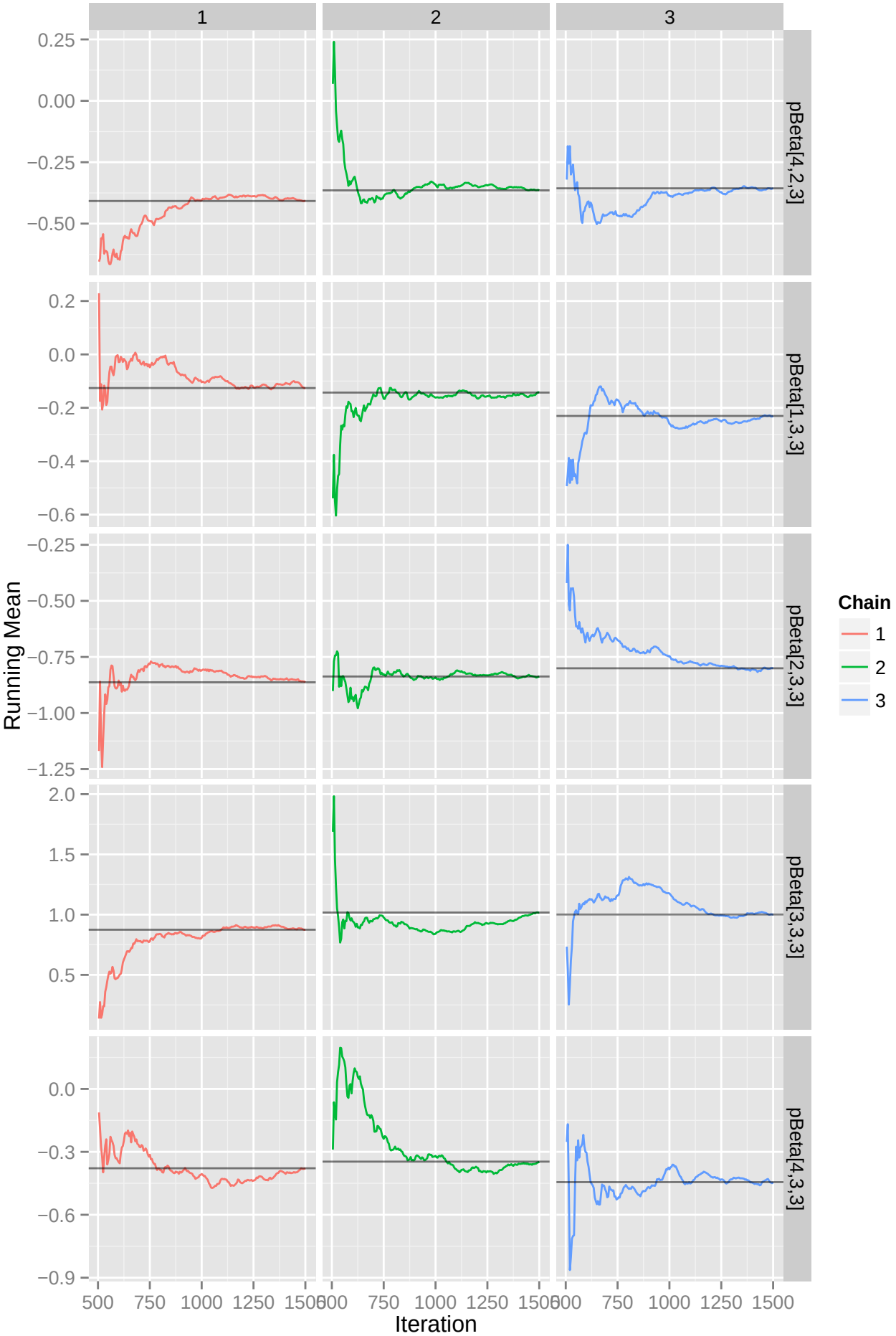

1
2
3
pBeta[3,4,1]
pBeta[4,4,1]
pBeta[1,1,2]
pBeta[2,1,2]
pBeta[3,1,2]
Running Mean
Iteration
Chain
1
2
3

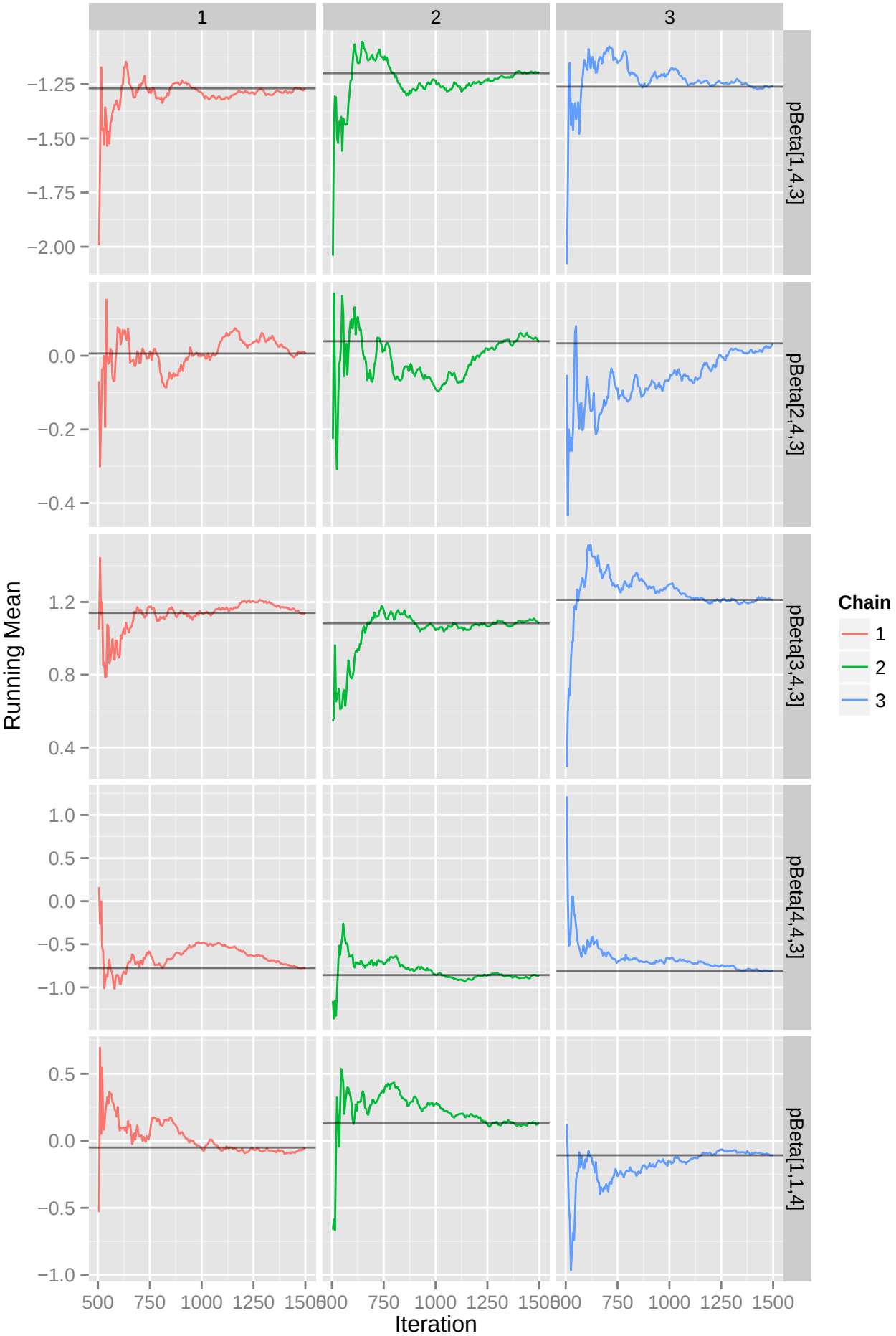

1
2
3
pBeta[4,1,2]
pBeta[1,2,2]
pBeta[2,2,2]
pBeta[3,2,2]
pBeta[4,2,2]
Running Mean
Iteration
Chain
1
2
3
−2.8
−3.2
−3.6
−4.0
0.6
0.5
0.4
0.3
0.2
0.1
1.0
0.9
0.8
0.7
2.0
1.8
1.6
1.4
−3.2
−3.4
−3.6
−3.8
−4.0
500
750
1000
1250
1500

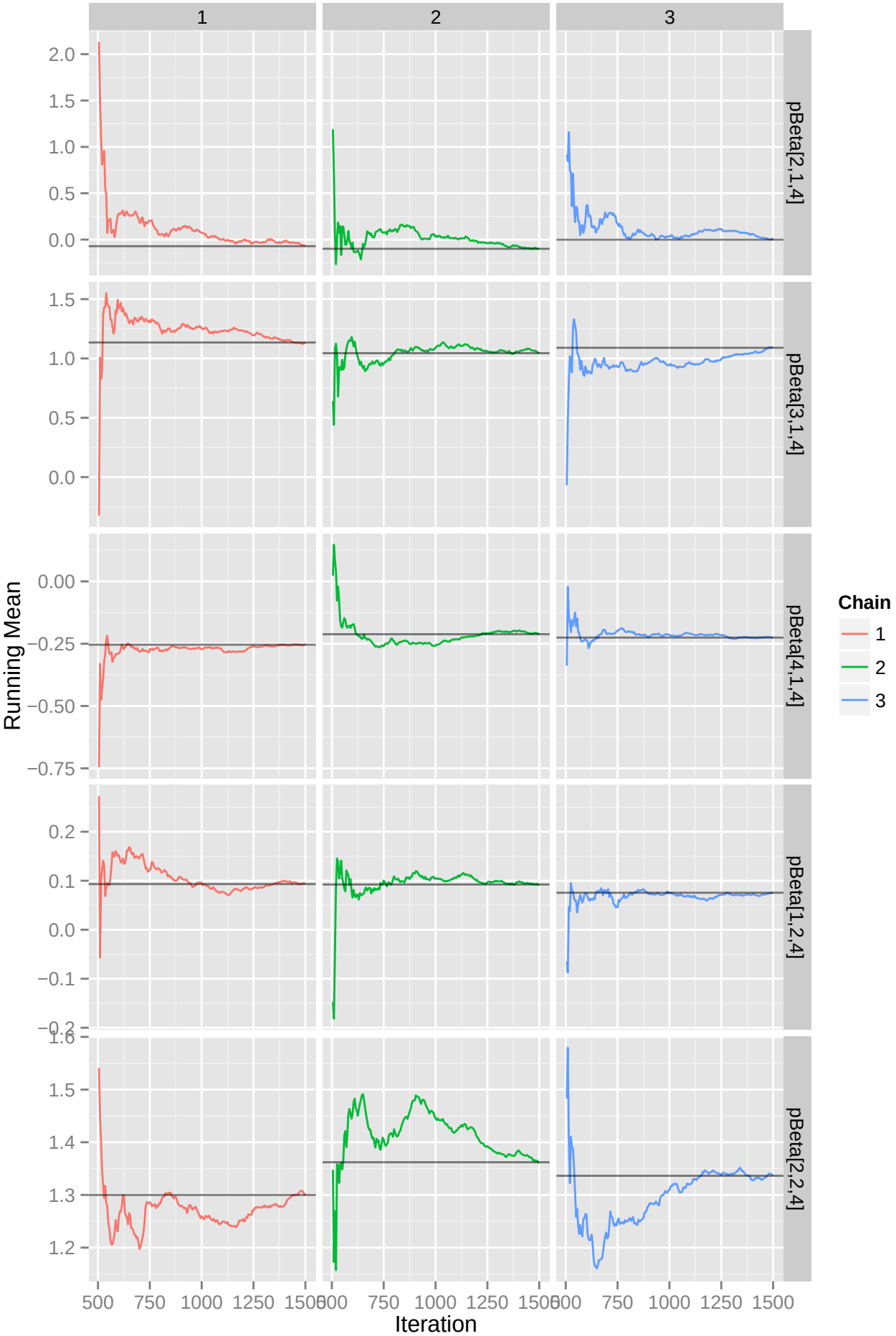

1
2
3
pBeta[1,3,2]
pBeta[2,3,2]
pBeta[3,3,2]
pBeta[4,3,2]
pBeta[1,4,2]
Running Mean
Iteration
Chain
1
2
3

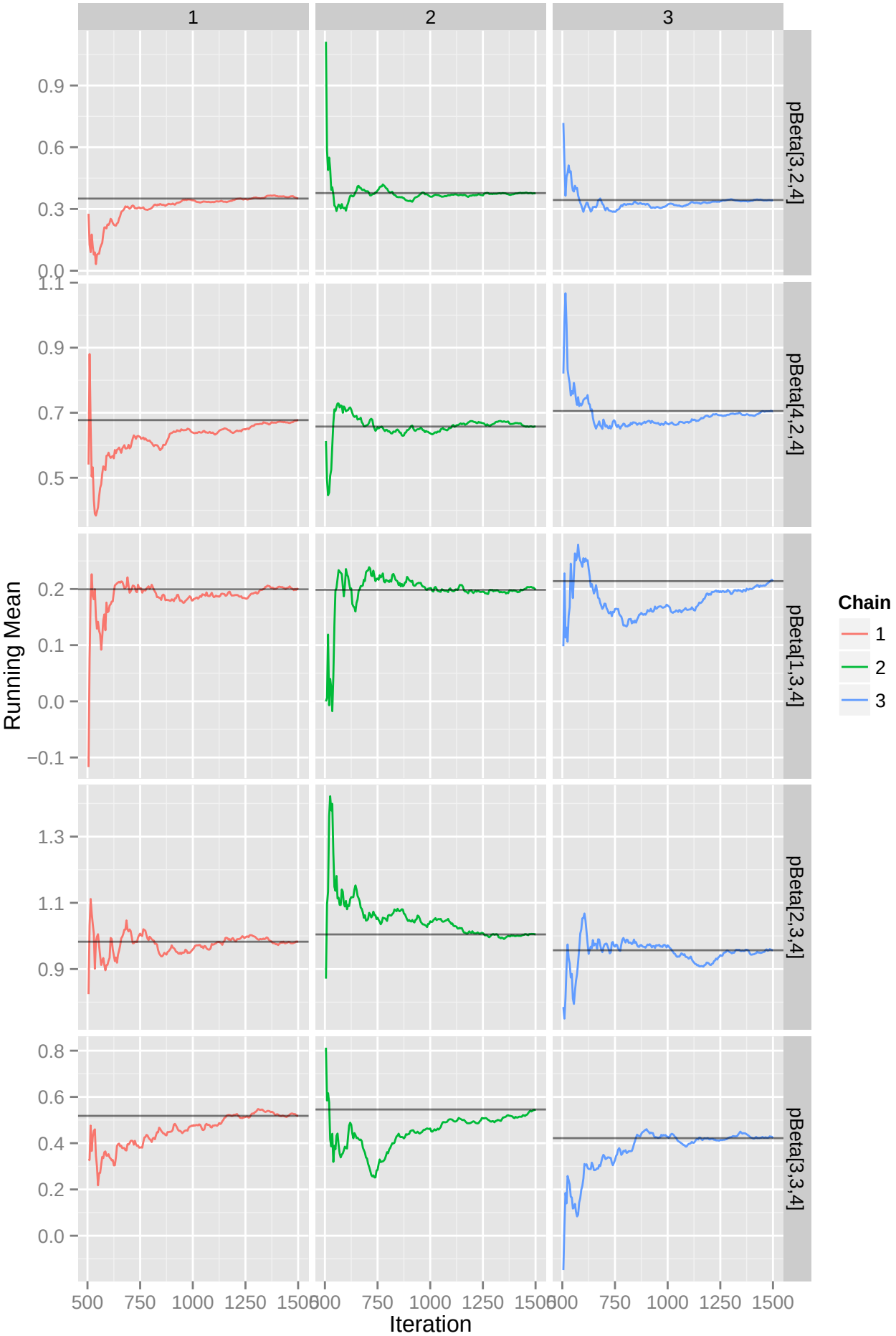

1
2
3
pBeta[2,4,2]
pBeta[3,4,2]
pBeta[4,4,2]
pBeta[1,1,3]
pBeta[2,1,3]
Running Mean
Iteration
Chain
1
2
3
500
750
1000
1250
1500

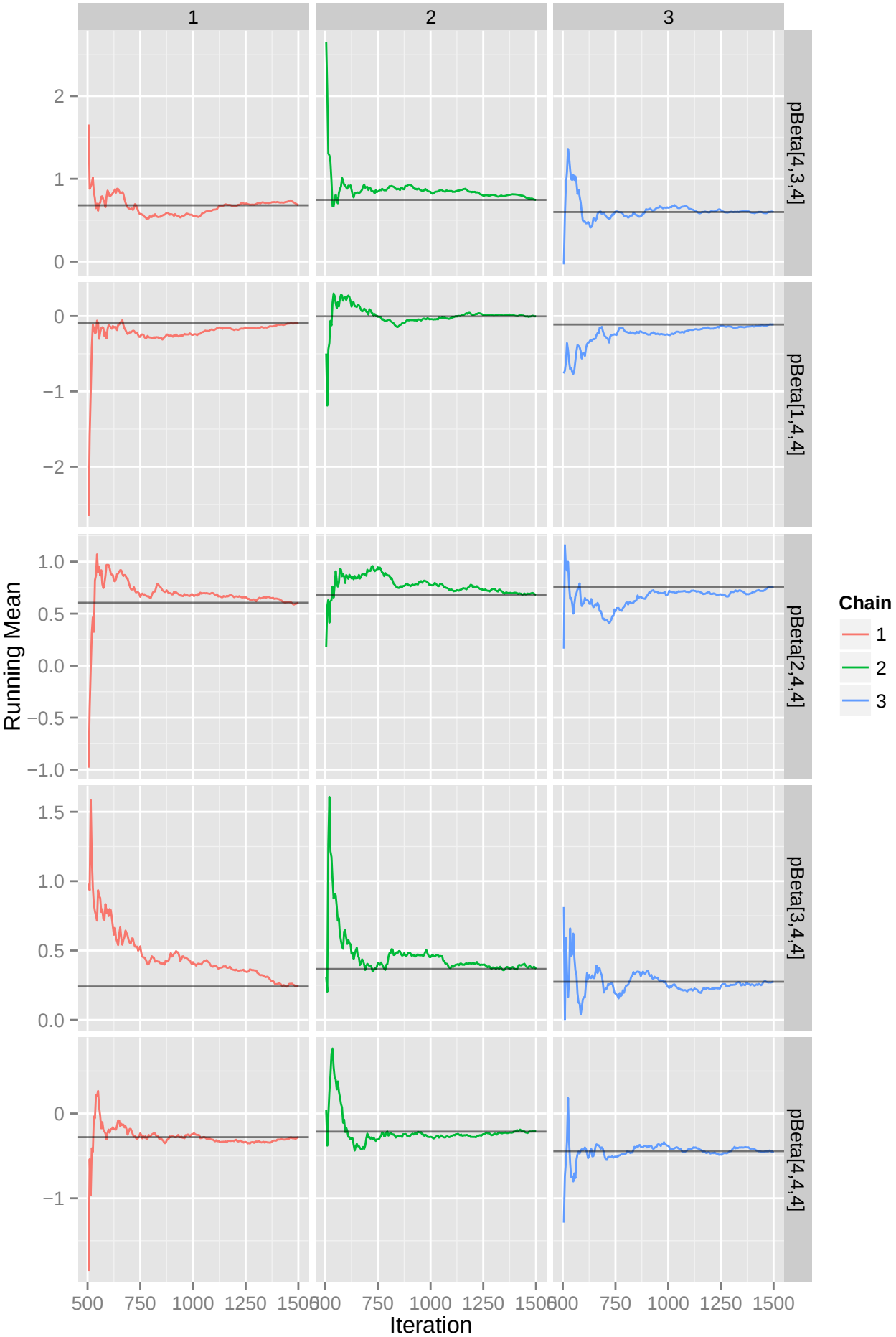

1
2
3
pBeta[3,1,3]
pBeta[4,1,3]
pBeta[1,2,3]
pBeta[2,2,3]
pBeta[3,2,3]
Running Mean
Iteration
Chain
1
2
3
2
1
0
−0.2
−0.4
−0.6
−0.8
0.2
0.0
−0.2
−0.4
0.0
−0.1
−0.2
1.25
1.00
0.75
0.50
0.25
500
750
1000
1250
1500


1
2
3
pBeta[4,2,3]
pBeta[1,3,3]
pBeta[2,3,3]
pBeta[3,3,3]
pBeta[4,3,3]
Running Mean
Iteration
Chain
1
2
3
0.25
0.00
−0.25
−0.50
0.2
0.0
−0.2
−0.4
−0.6
−0.25
−0.50
−0.75
−1.00
−1.25
2.0
1.5
1.0
0.5
0.0
−0.3
−0.6
−0.9
500
750
1000
1250
1500


1
2
3
pBeta[1,4,3]
pBeta[2,4,3]
pBeta[3,4,3]
pBeta[4,4,3]
pBeta[1,1,4]
Running Mean
Iteration
Chain
1
2
3
−1.25
−1.50
−1.75
−2.00
0.0
−0.2
−0.4
1.2
0.8
0.4
1.0
0.5
0.0
−0.5
−1.0
0.5
0.0
−0.5
−1.0
500
750
1000
1250
1500


1
2
3
pBeta[2,1,4]
pBeta[3,1,4]
pBeta[4,1,4]
pBeta[1,2,4]
pBeta[2,2,4]
Running Mean
Iteration
Chain
1
2
3
2.0
1.5
1.0
0.5
0.0
0.00
−0.25
−0.50
−0.75
0.2
0.1
−0.1
−0.2
1.6
1.4
1.3
1.2
500
750
1000
1250
1500


1
2
3
pBeta[3,2,4]
pBeta[4,2,4]
pBeta[1,3,4]
pBeta[2,3,4]
pBeta[3,3,4]
Running Mean
Iteration
Chain
1
2
3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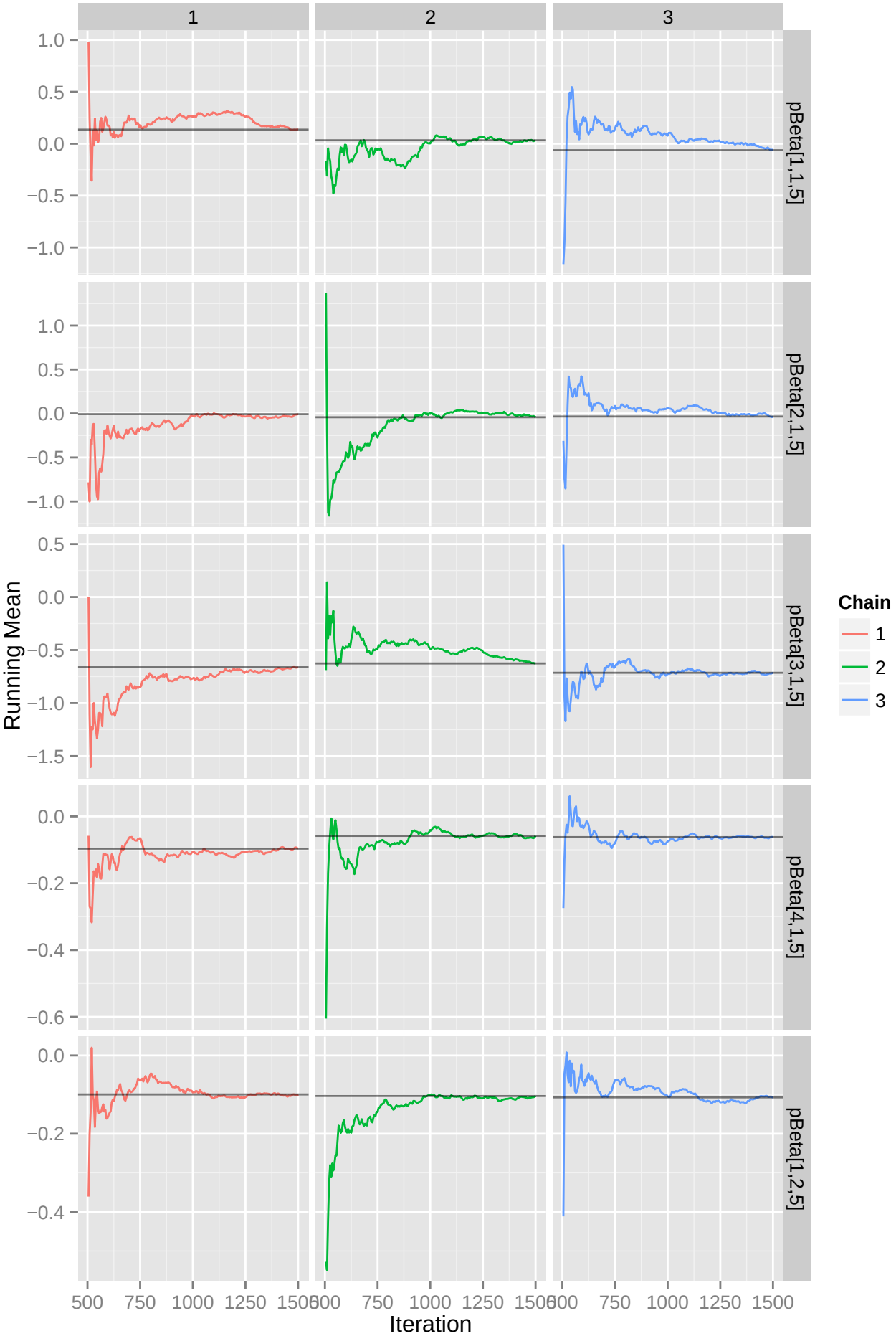
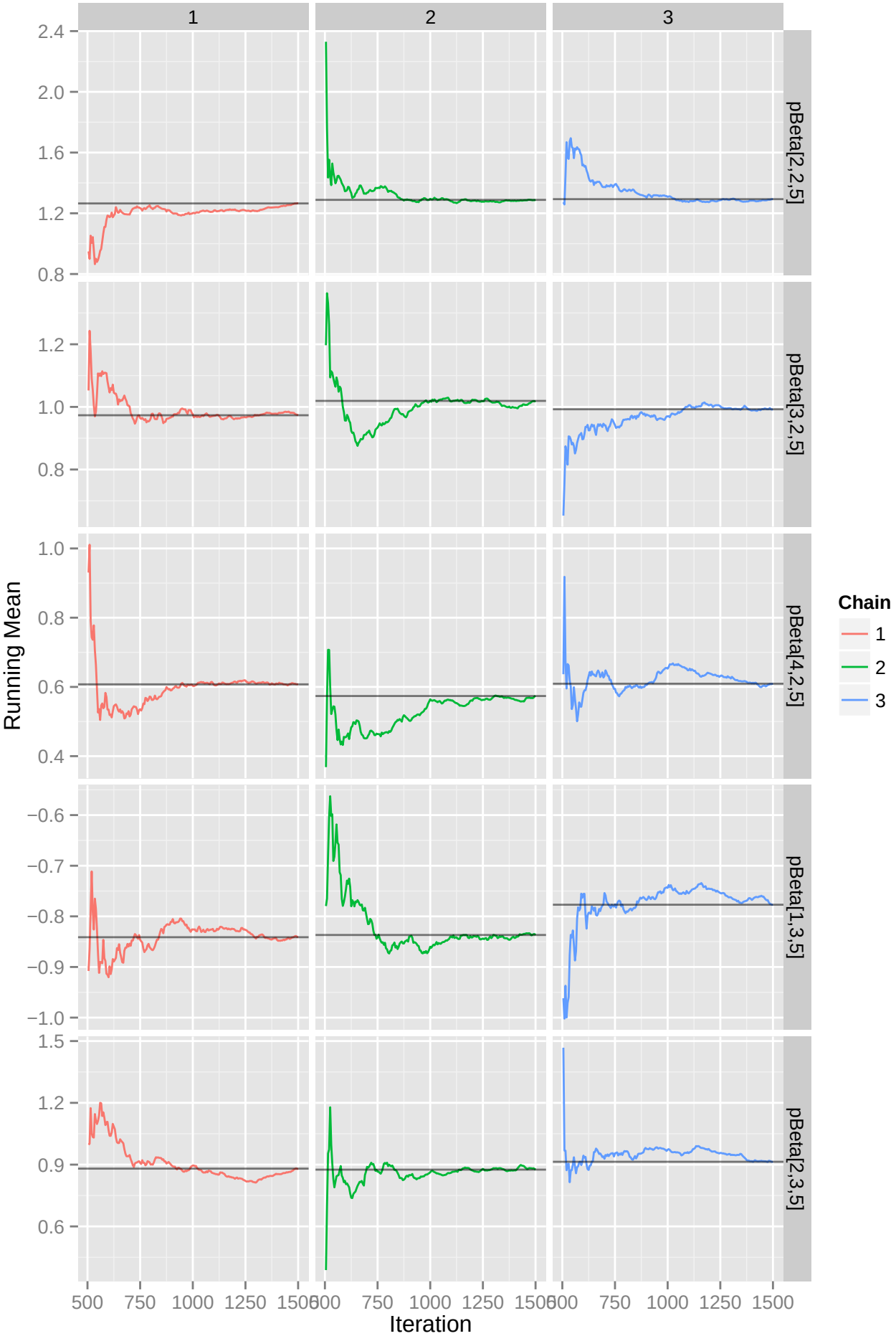
2
3
pBeta[4,3,4]
pBeta[1,4,4]
pBeta[2,4,4]
pBeta[3,4,4]
pBeta[4,4,4]
Running Mean
Iteration
Chain
1
2
3


1
2
3
pBeta[1,1,5]
pBeta[2,1,5]
pBeta[3,1,5]
pBeta[4,1,5]
pBeta[1,2,5]
Running Mean
Iteration
Chain
1
2
3


1
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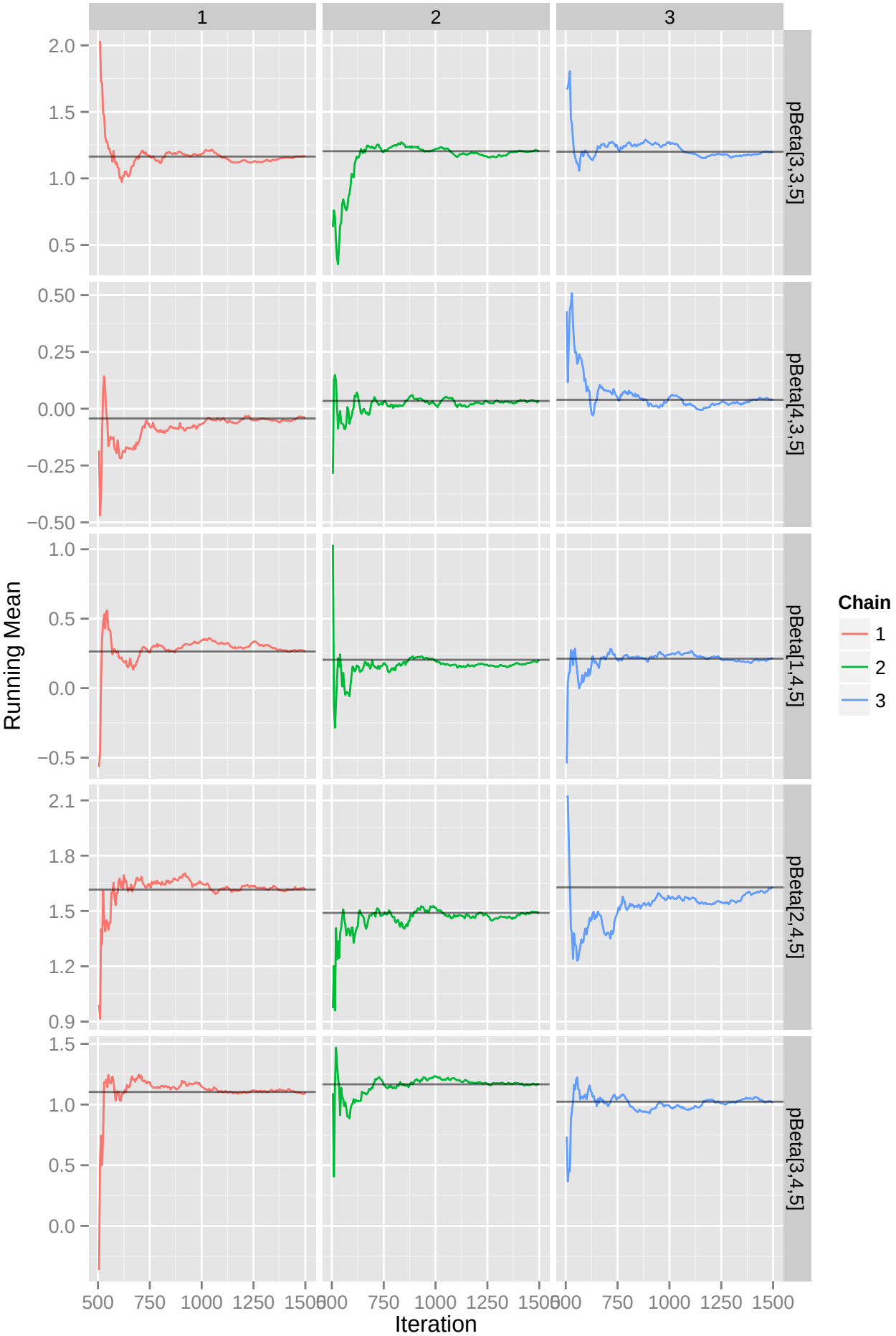
3
pBeta[2,2,5]
pBeta[3,2,5]
pBeta[4,2,5]
pBeta[1,3,5]
pBeta[2,3,5]
Running Mean
Iteration
Chain
1
2
3
500
750
1000
1250
1500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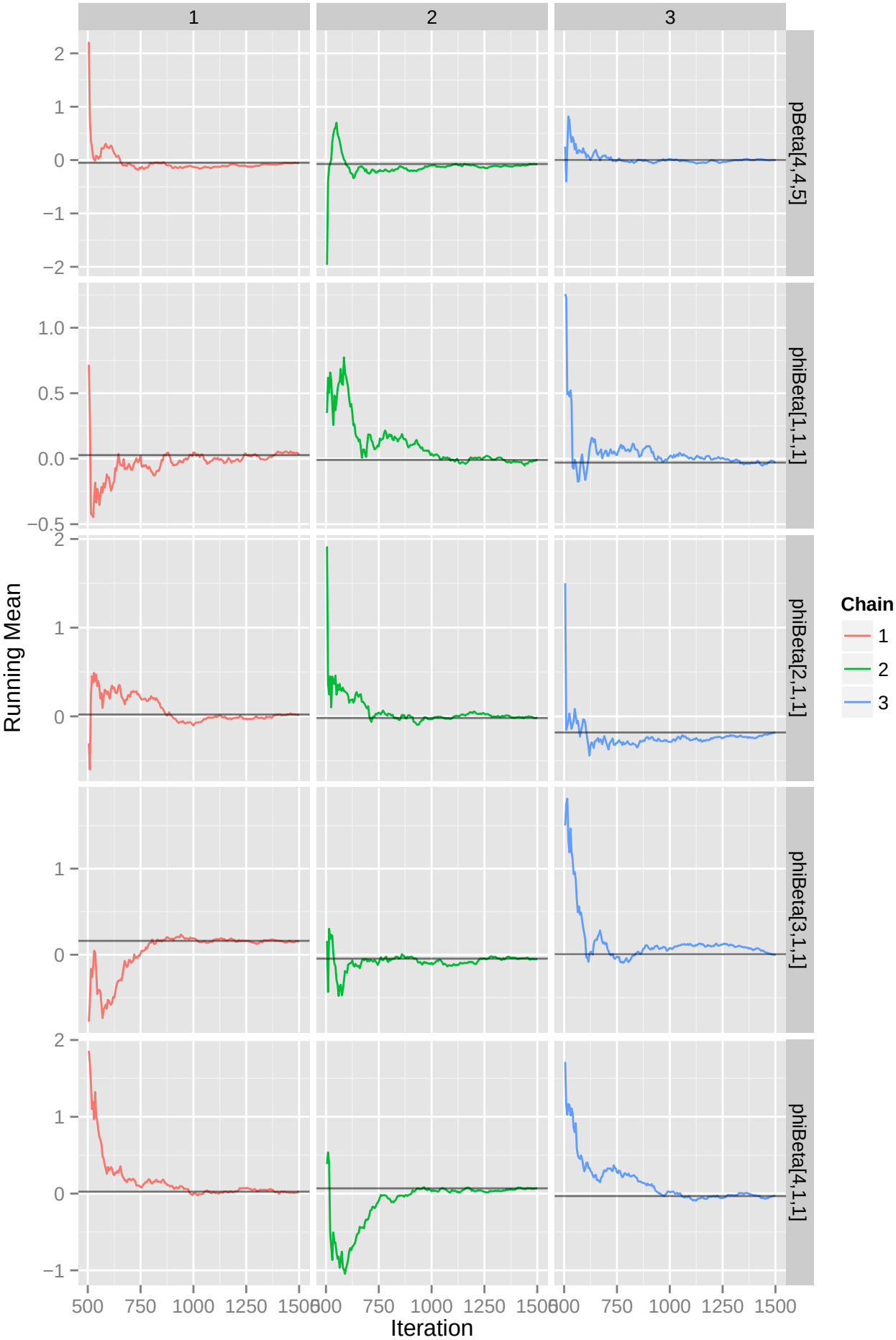
pBeta[3,3,5]
pBeta[4,3,5]
pBeta[1,4,5]
pBeta[2,4,5]
pBeta[3,4,5]
Running Mean
Iteration
Chain
1
2
3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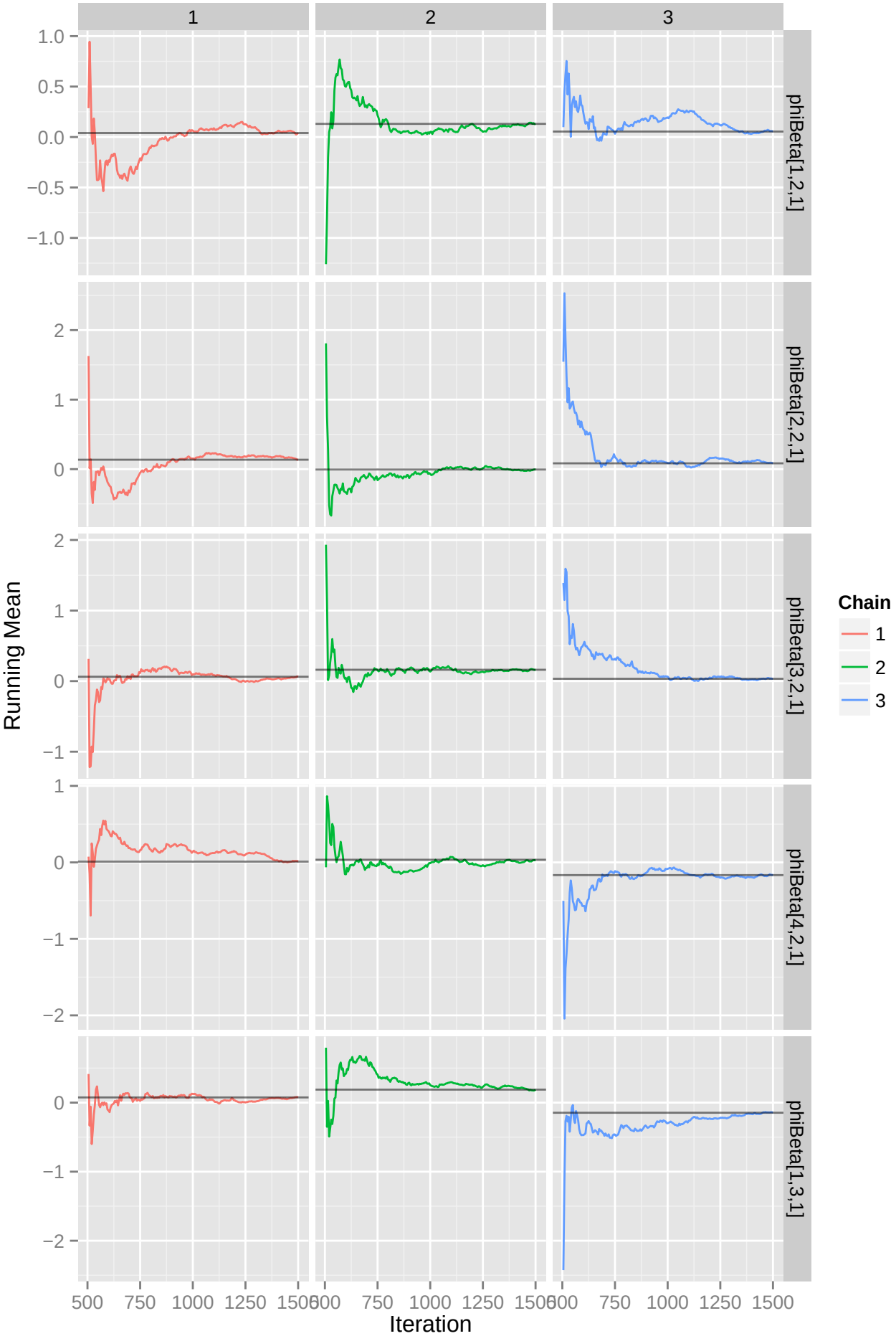
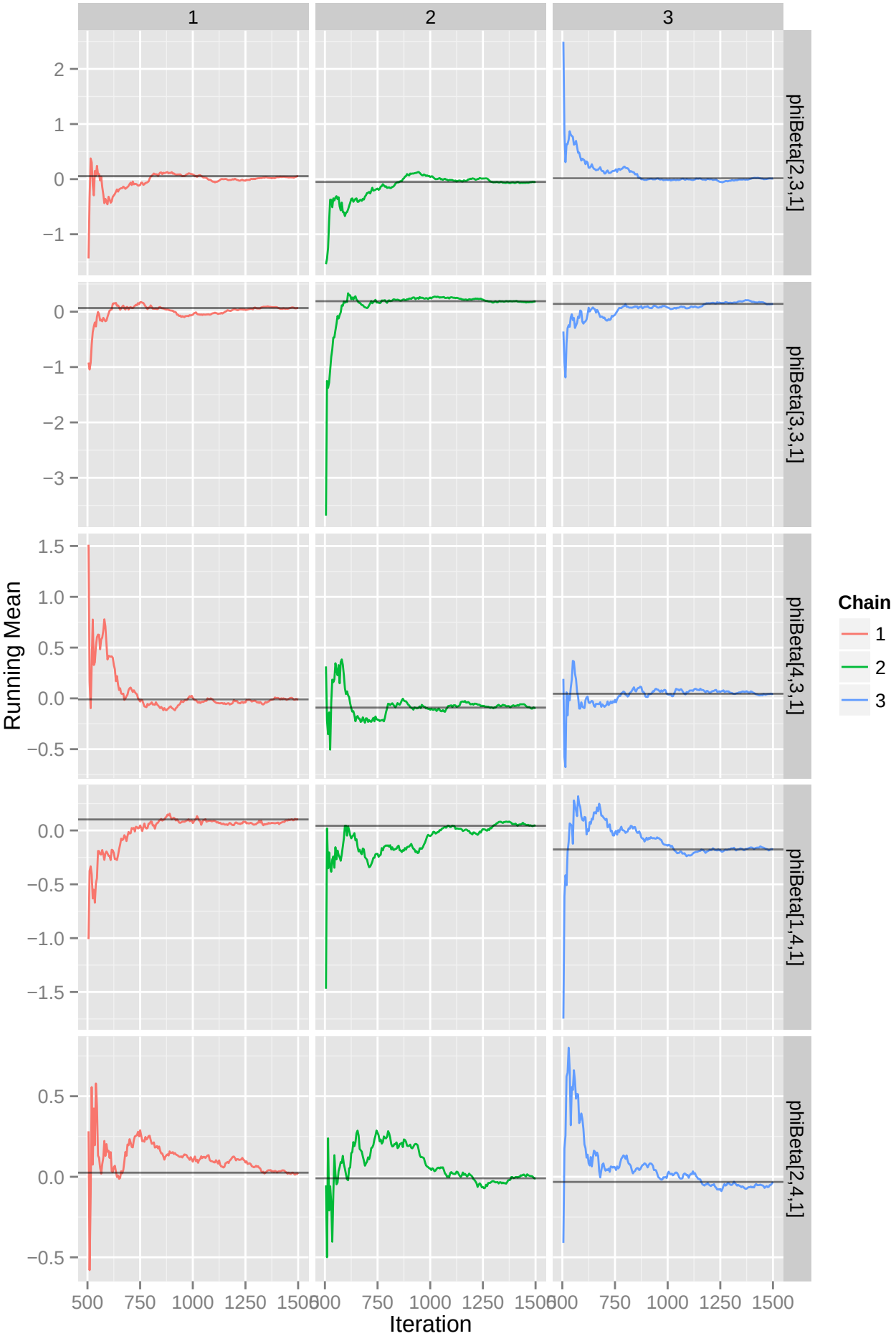
2
3
pBeta[4,4,5]
phiBeta[1,1,1]
phiBeta[2,1,1]
phiBeta[3,1,1]
phiBeta[4,1,1]
Running Mean
Iteration
Chain
1
2
3


1
2
3
phiBeta[1,2,1]
phiBeta[2,2,1]
phiBeta[3,2,1]
phiBeta[4,2,1]
phiBeta[1,3,1]
Running Mean
Iteration
Chain
1
2
3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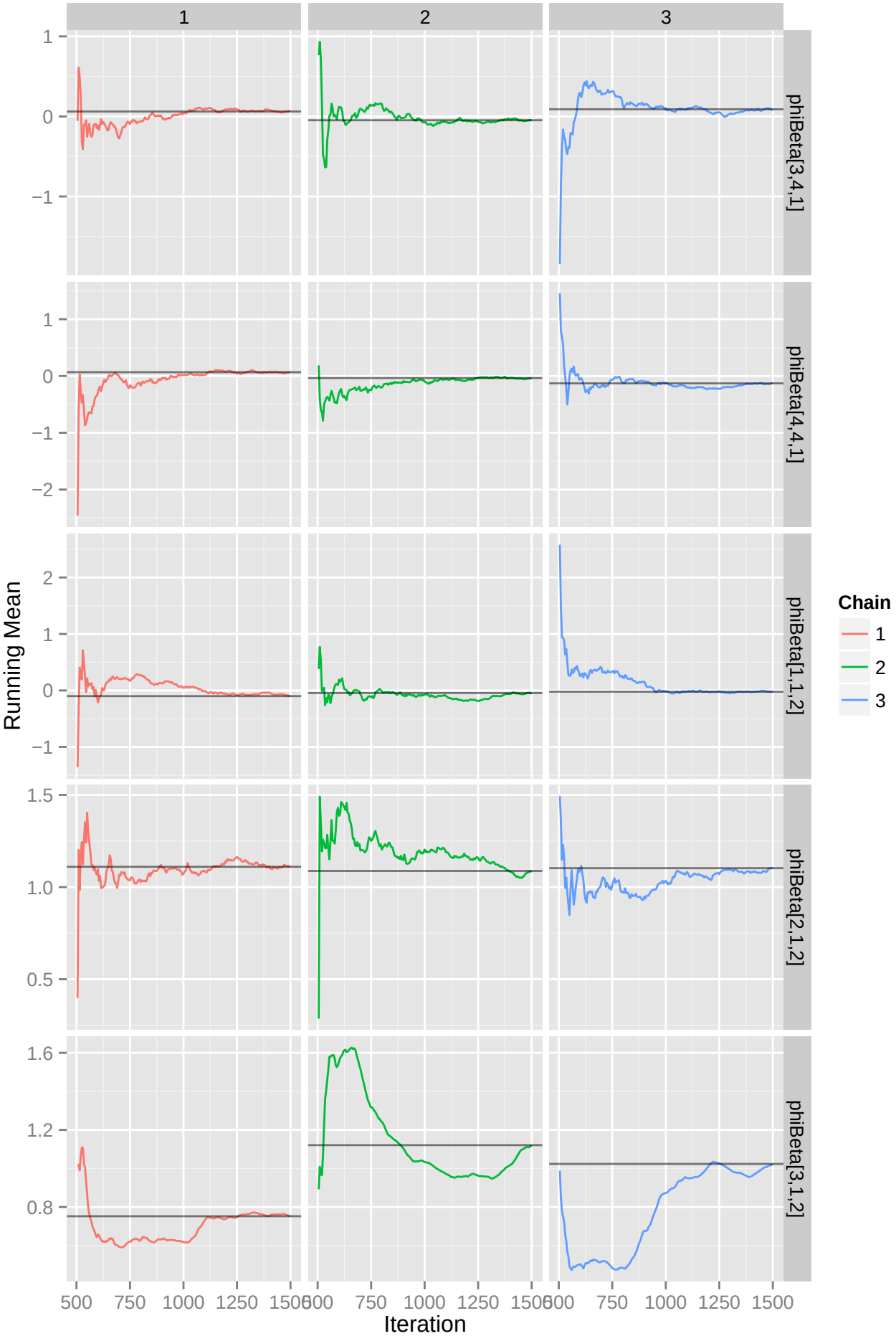
3
phiBeta[2,3,1]
phiBeta[3,3,1]
phiBeta[4,3,1]
phiBeta[1,4,1]
phiBeta[2,4,1]
Running Mean
Iteration
Chain
1
2
3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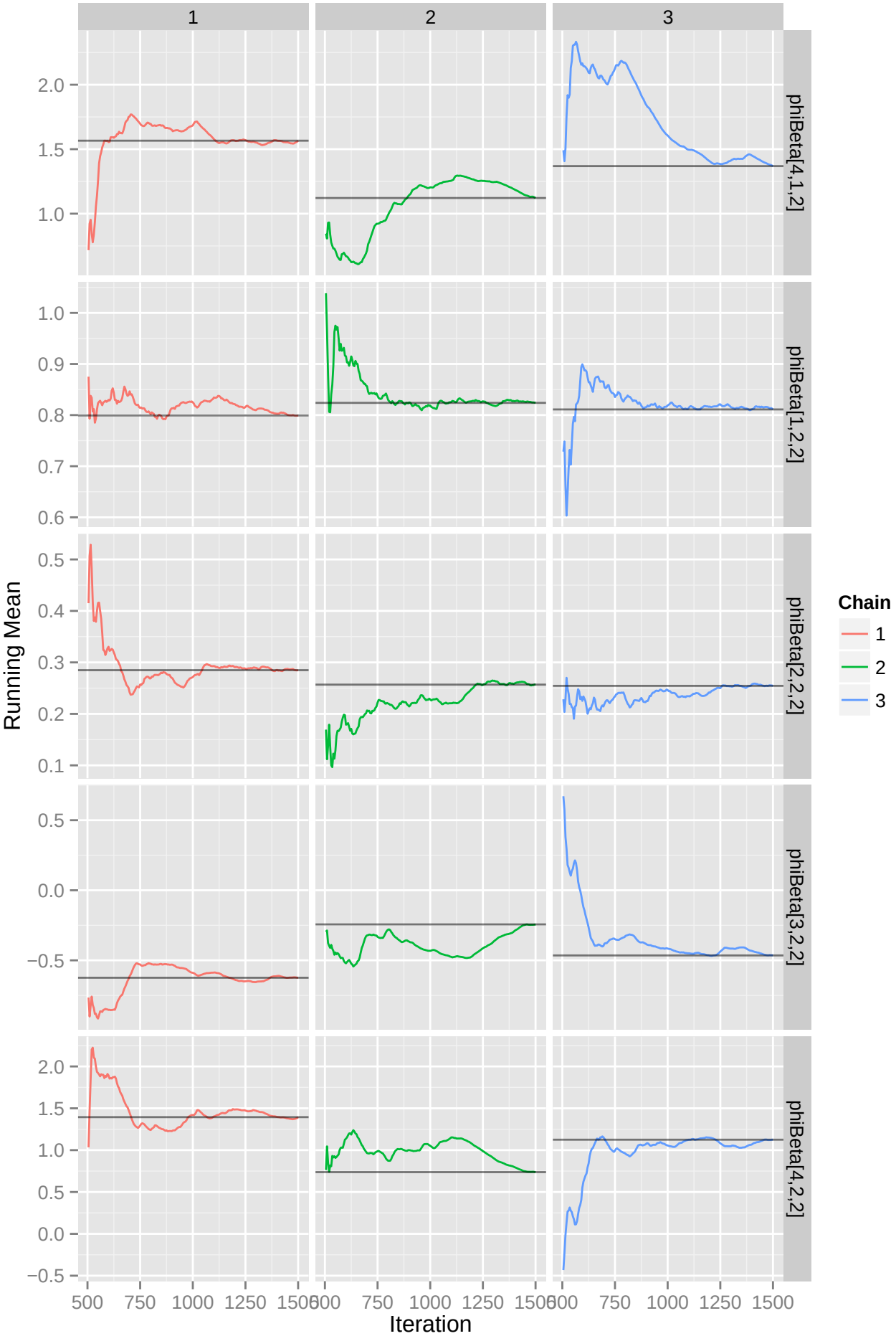
phiBeta[3,4,1]
phiBeta[4,4,1]
phiBeta[1,1,2]
phiBeta[2,1,2]
phiBeta[3,1,2]
Running Mean
Iteration
Chain
1
2
3
500
750
1000
1250
1500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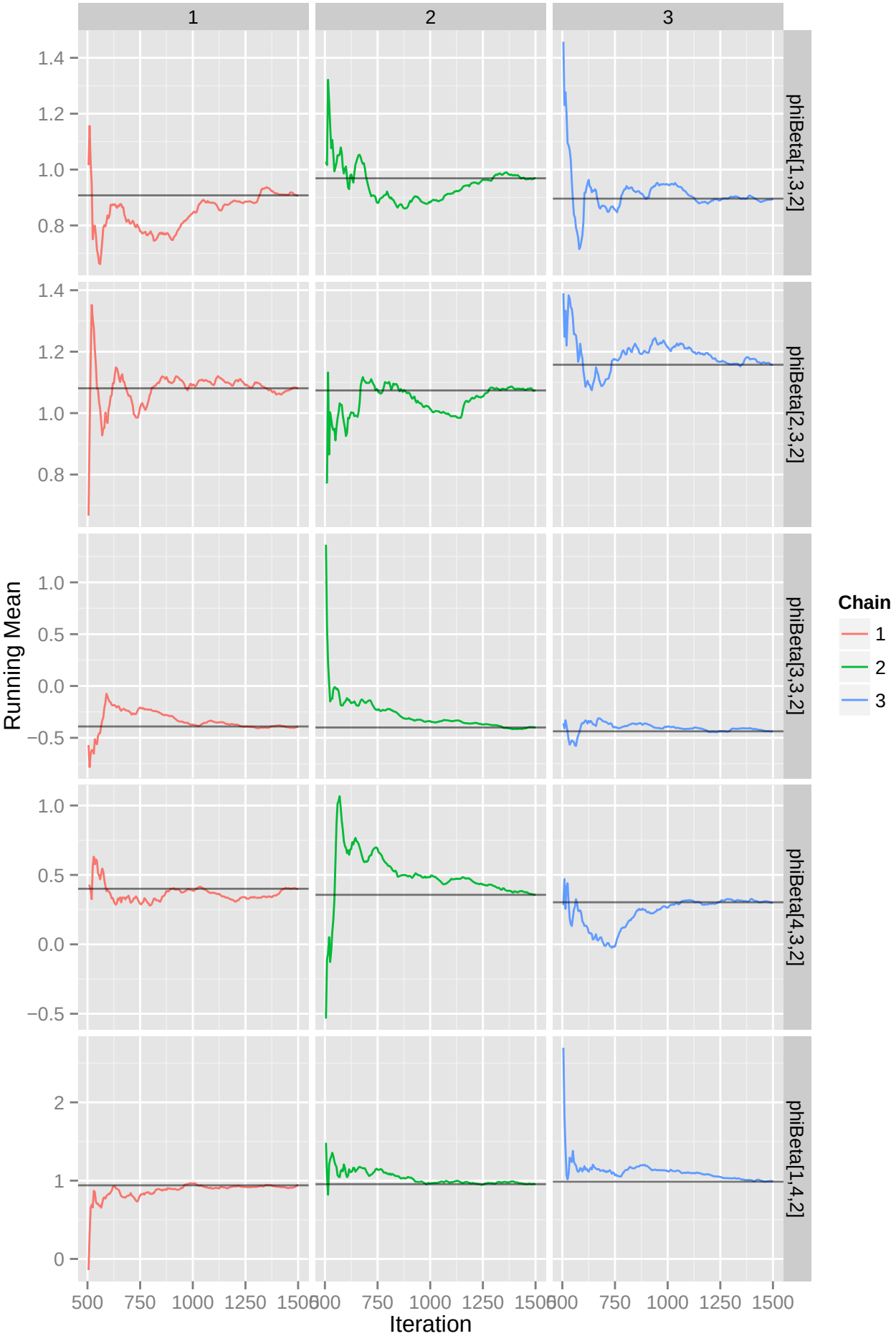
2
3
phiBeta[4,1,2]
phiBeta[1,2,2]
phiBeta[2,2,2]
phiBeta[3,2,2]
phiBeta[4,2,2]
Running Mean
Iteration
Chain
1
2
3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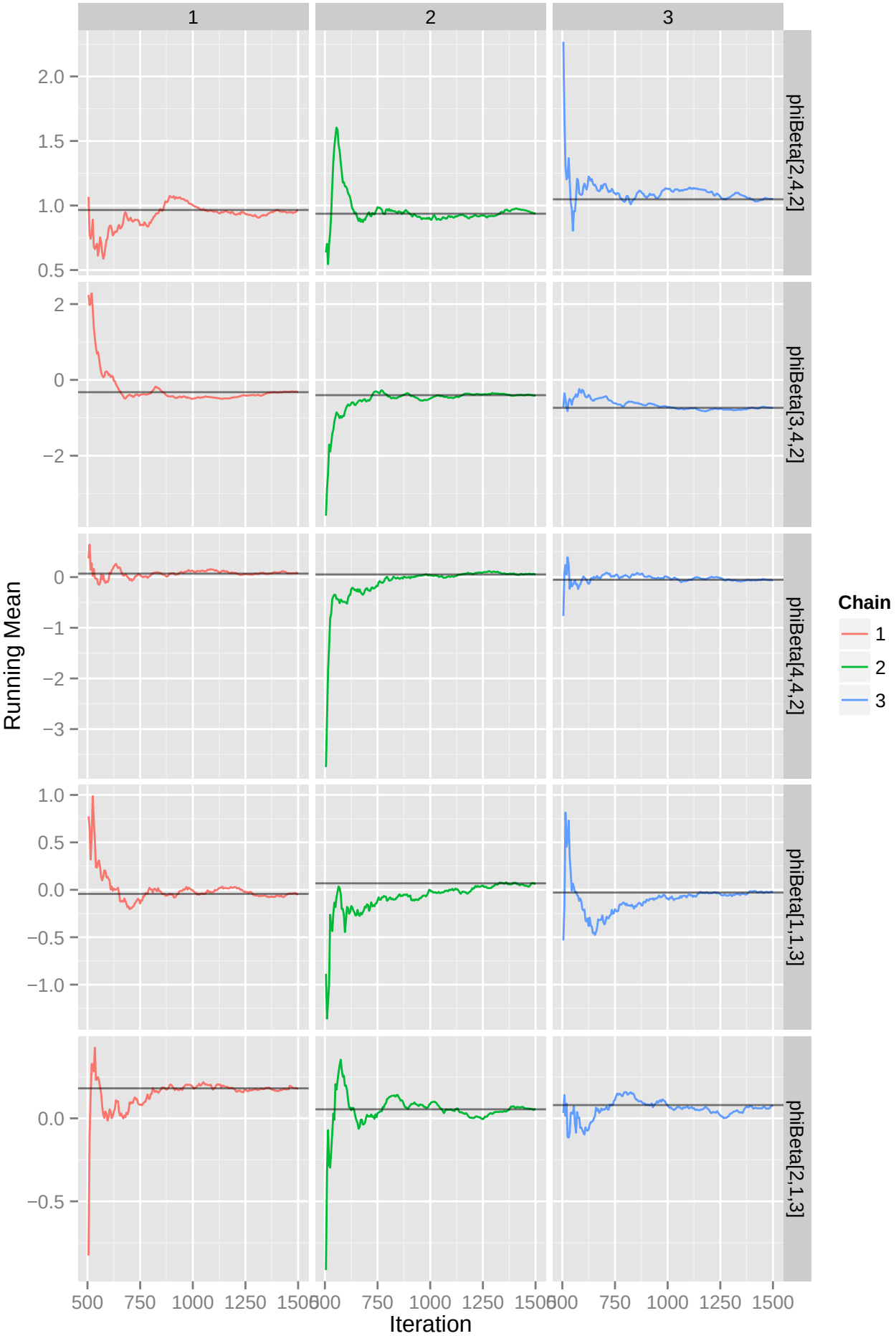
2
3
phiBeta[1,3,2]
phiBeta[2,3,2]
phiBeta[3,3,2]
phiBeta[4,3,2]
phiBeta[1,4,2]
Running Mean
Iteration
Chain
1
2
3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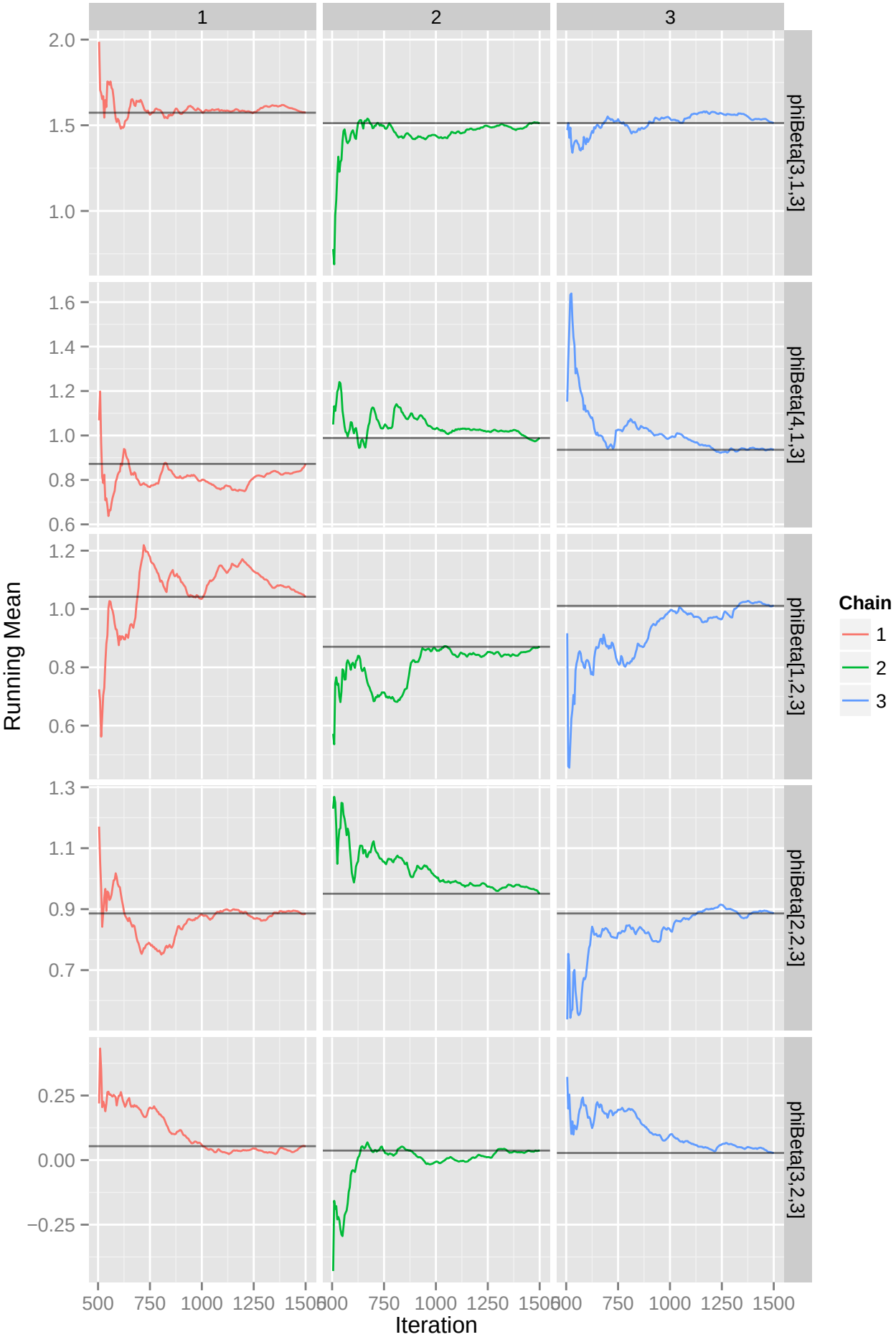
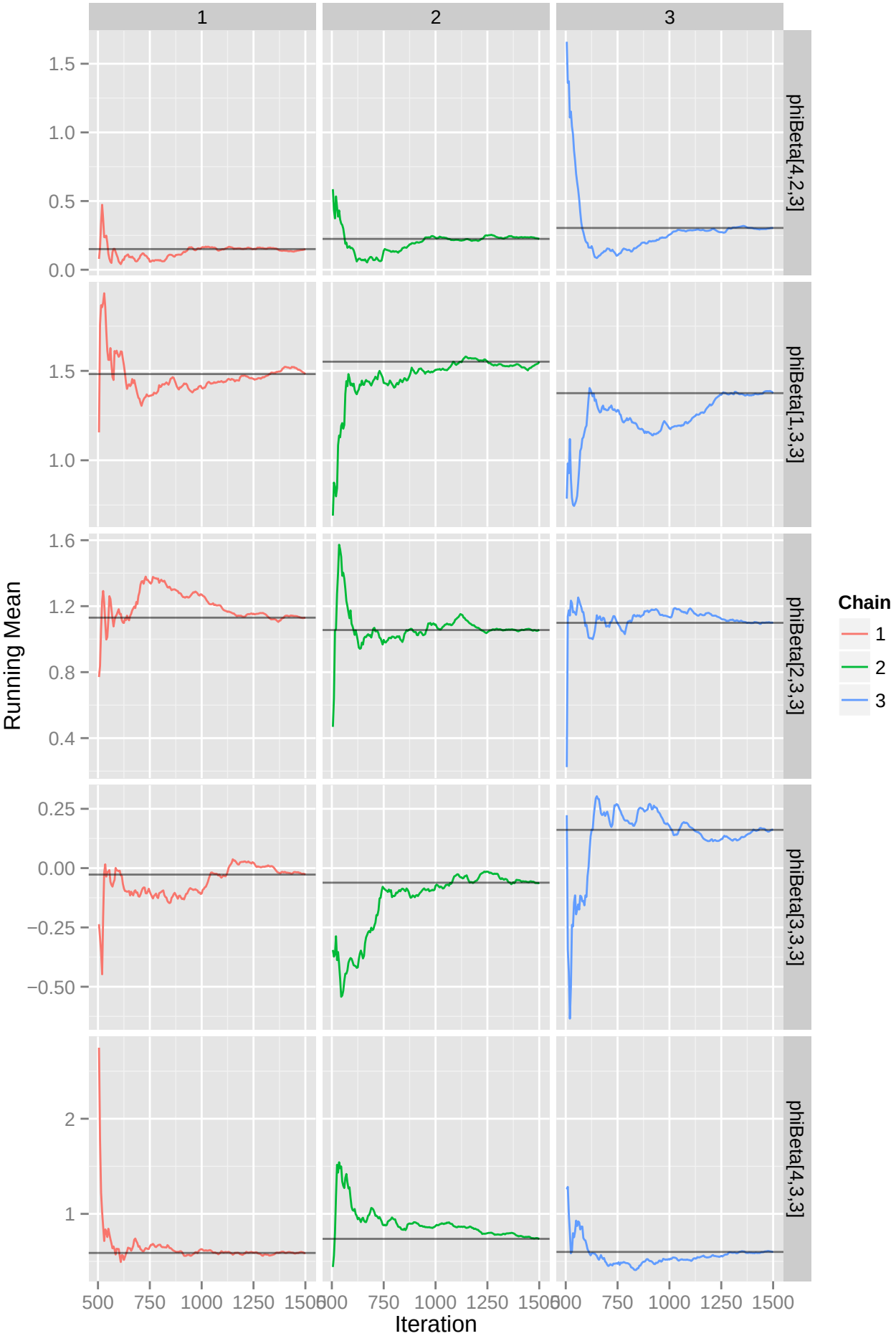
2
3
phiBeta[2,4,2]
phiBeta[3,4,2]
phiBeta[4,4,2]
phiBeta[1,1,3]
phiBeta[2,1,3]
Running Mean
Iteration
Chain
1
2
3


1
2
3
phiBeta[3,1,3]
phiBeta[4,1,3]
phiBeta[1,2,3]
phiBeta[2,2,3]
phiBeta[3,2,3]
Running Mean
Iteration
Chain
1
2
3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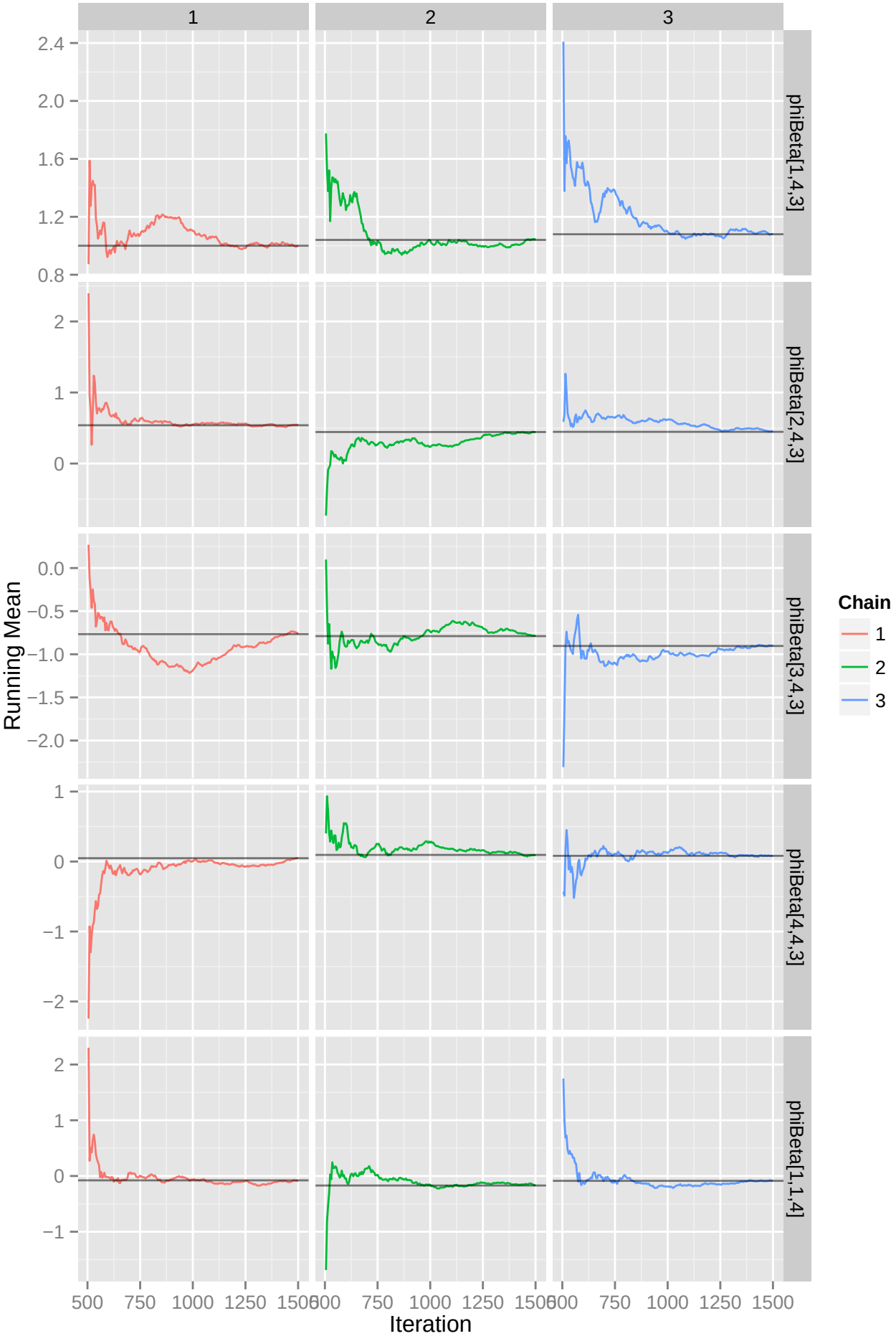
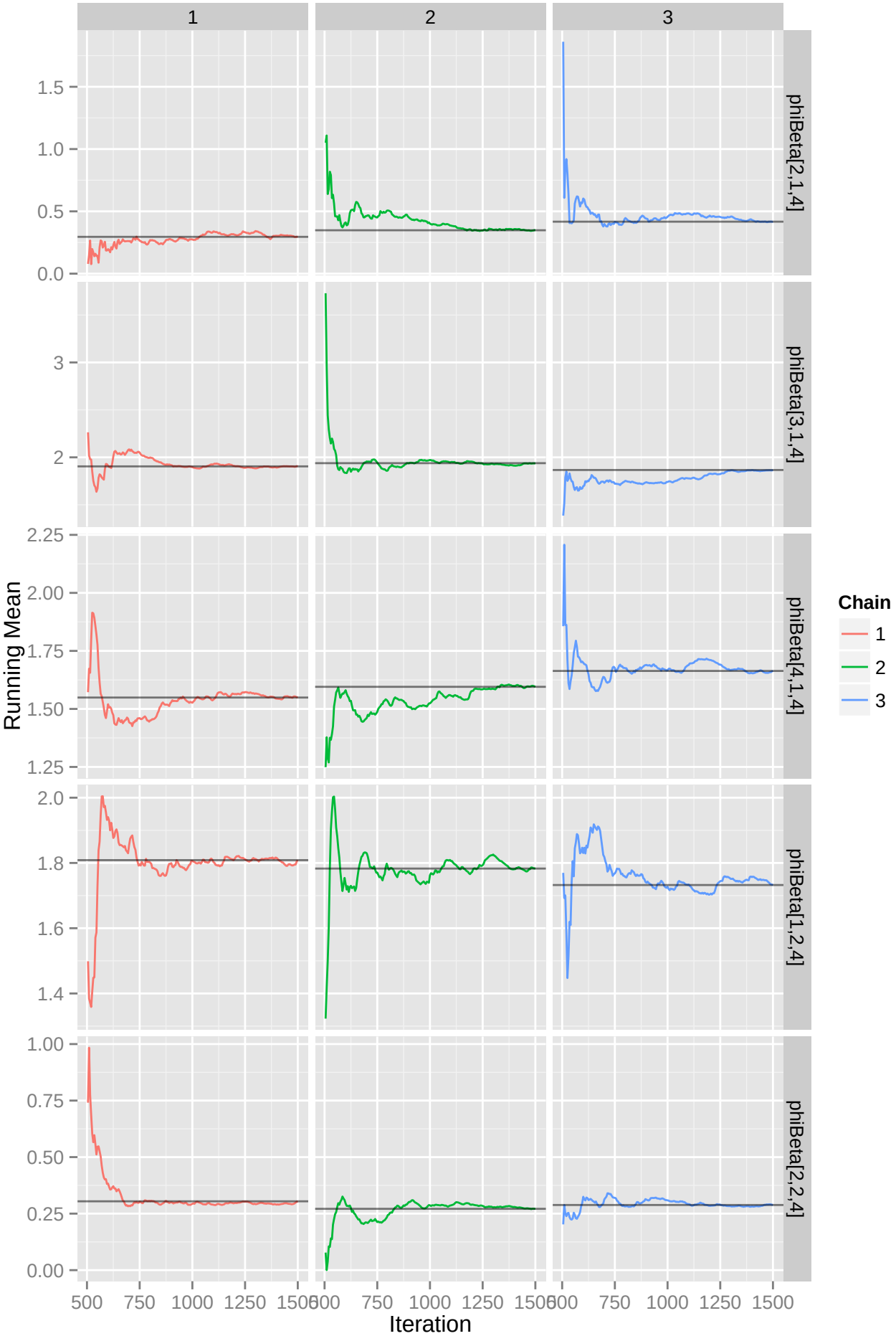
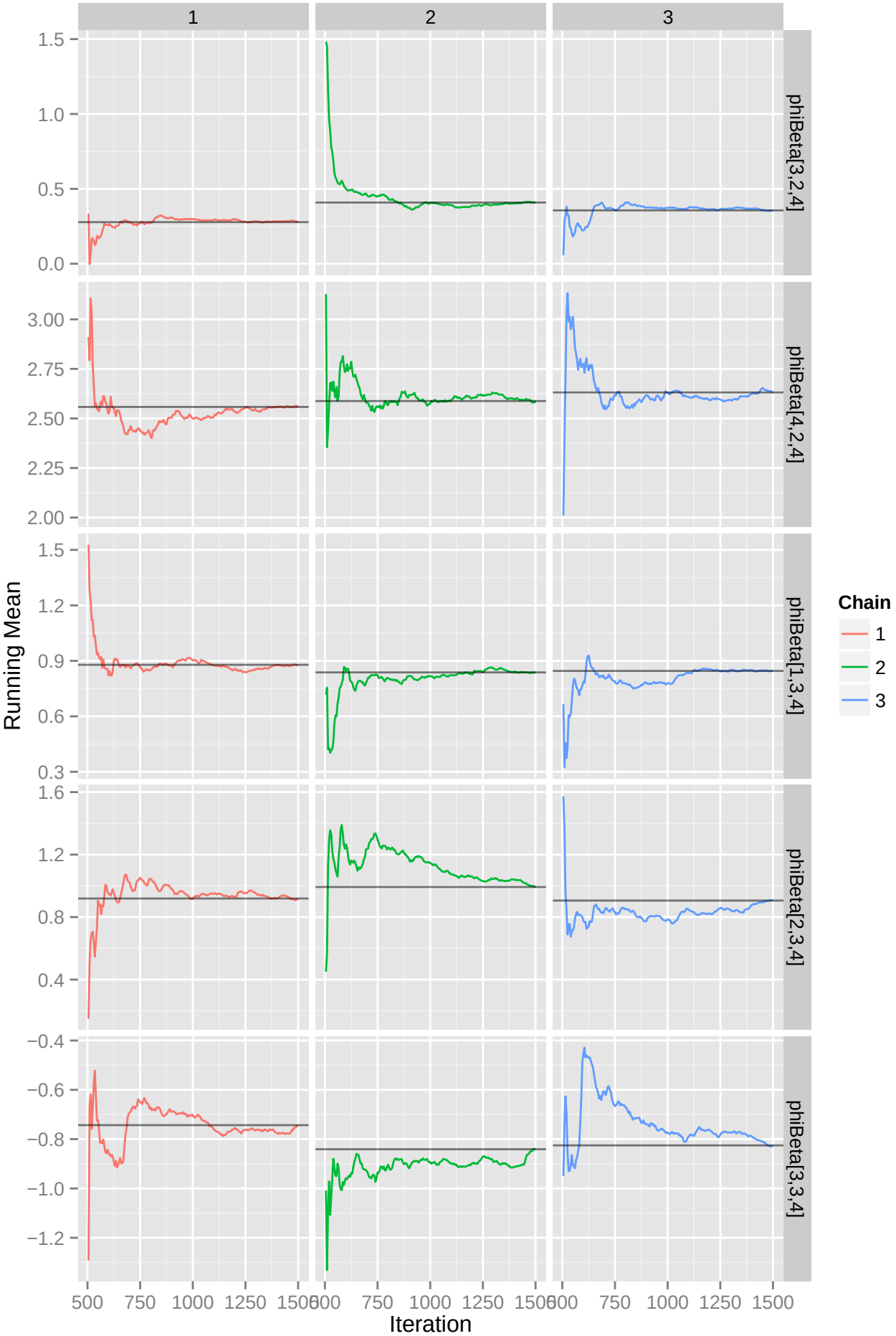
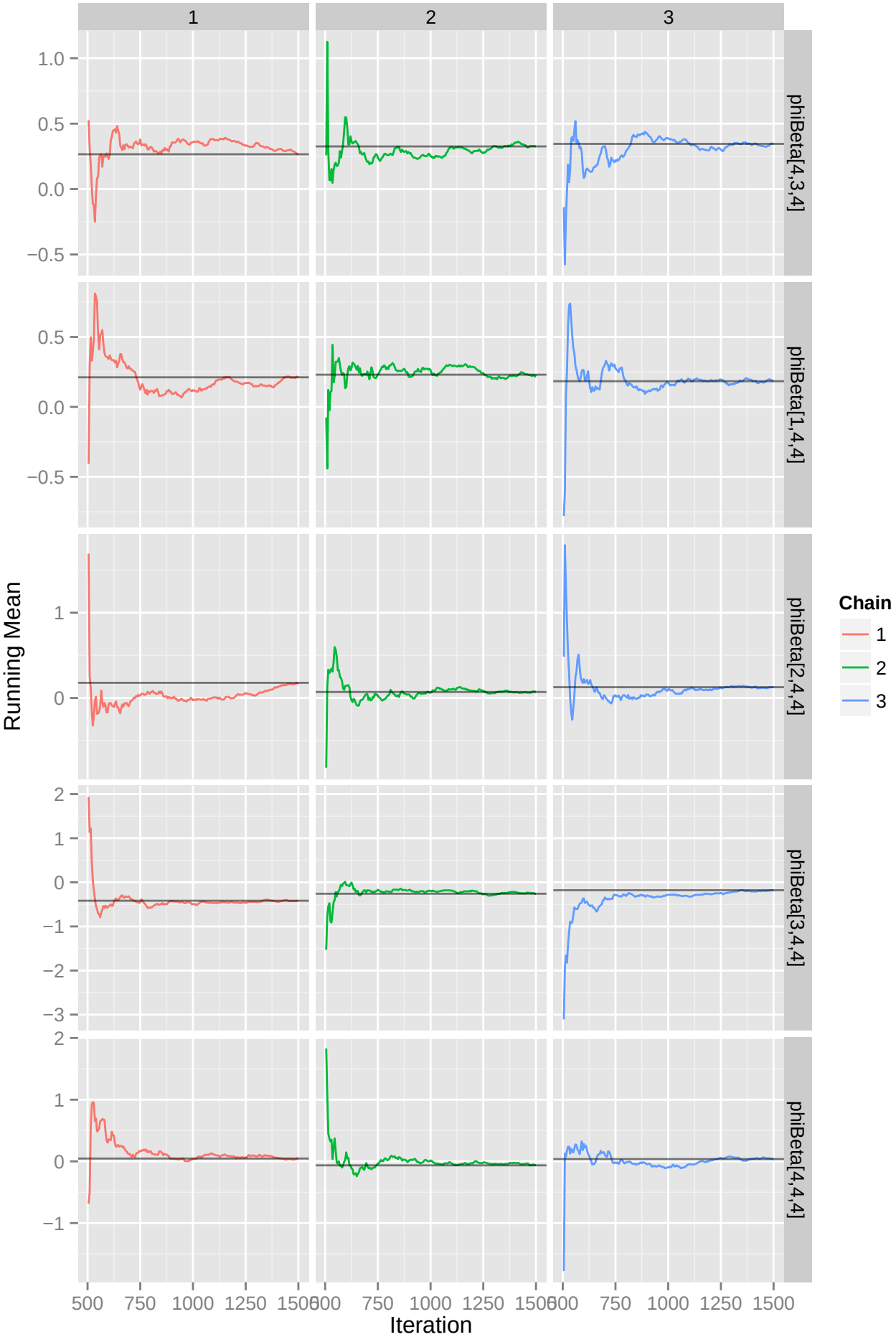
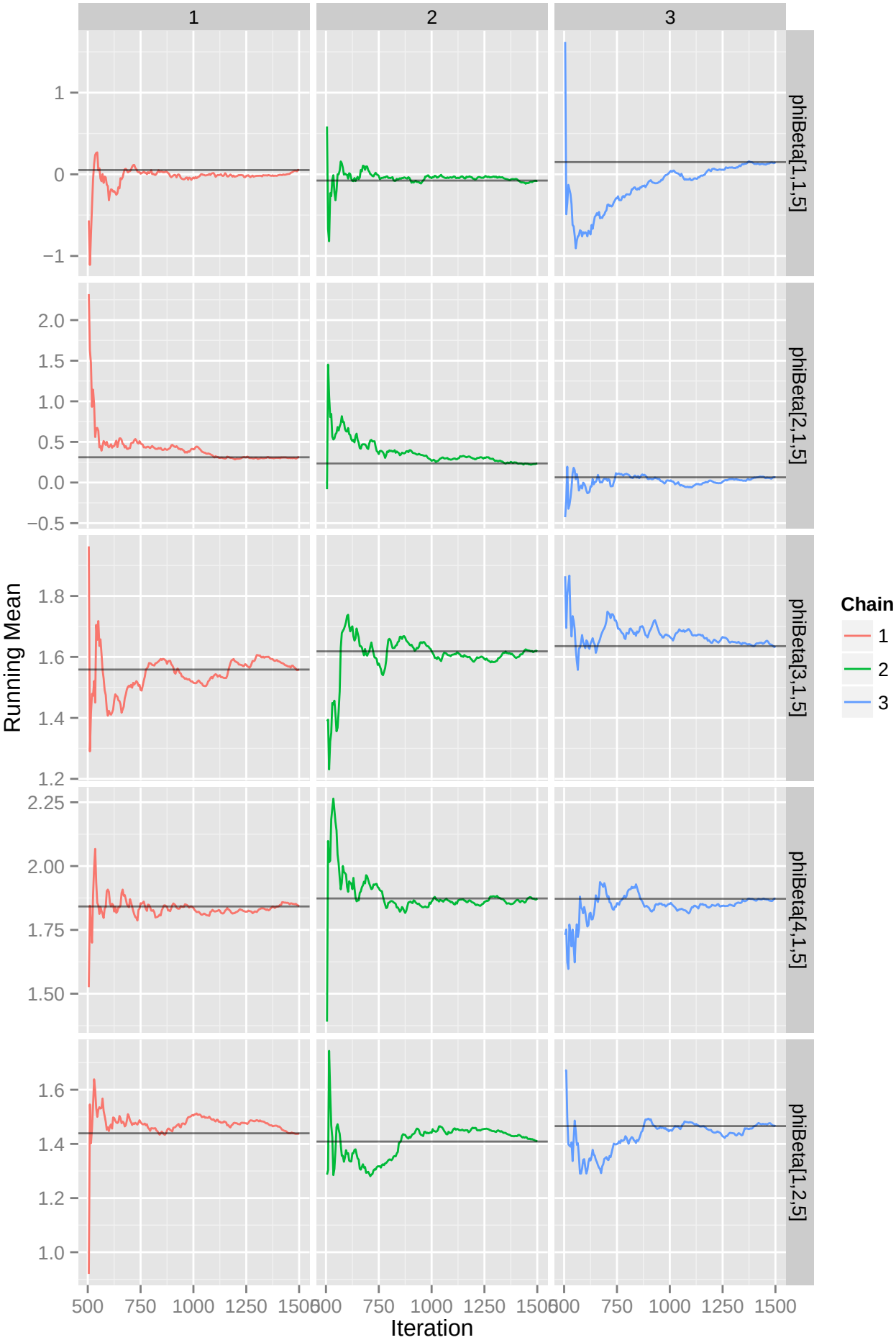
2
3
phiBeta[4,2,3]
phiBeta[1,3,3]
phiBeta[2,3,3]
phiBeta[3,3,3]
phiBeta[4,3,3]
Running Mean
Iteration
Chain
1
2
3
1.5
1.0
0.5
0.0
1.6
1.2
0.8
0.4
0.25
0.00
−0.25
−0.50
2
1
500
750
1000
1250
1500

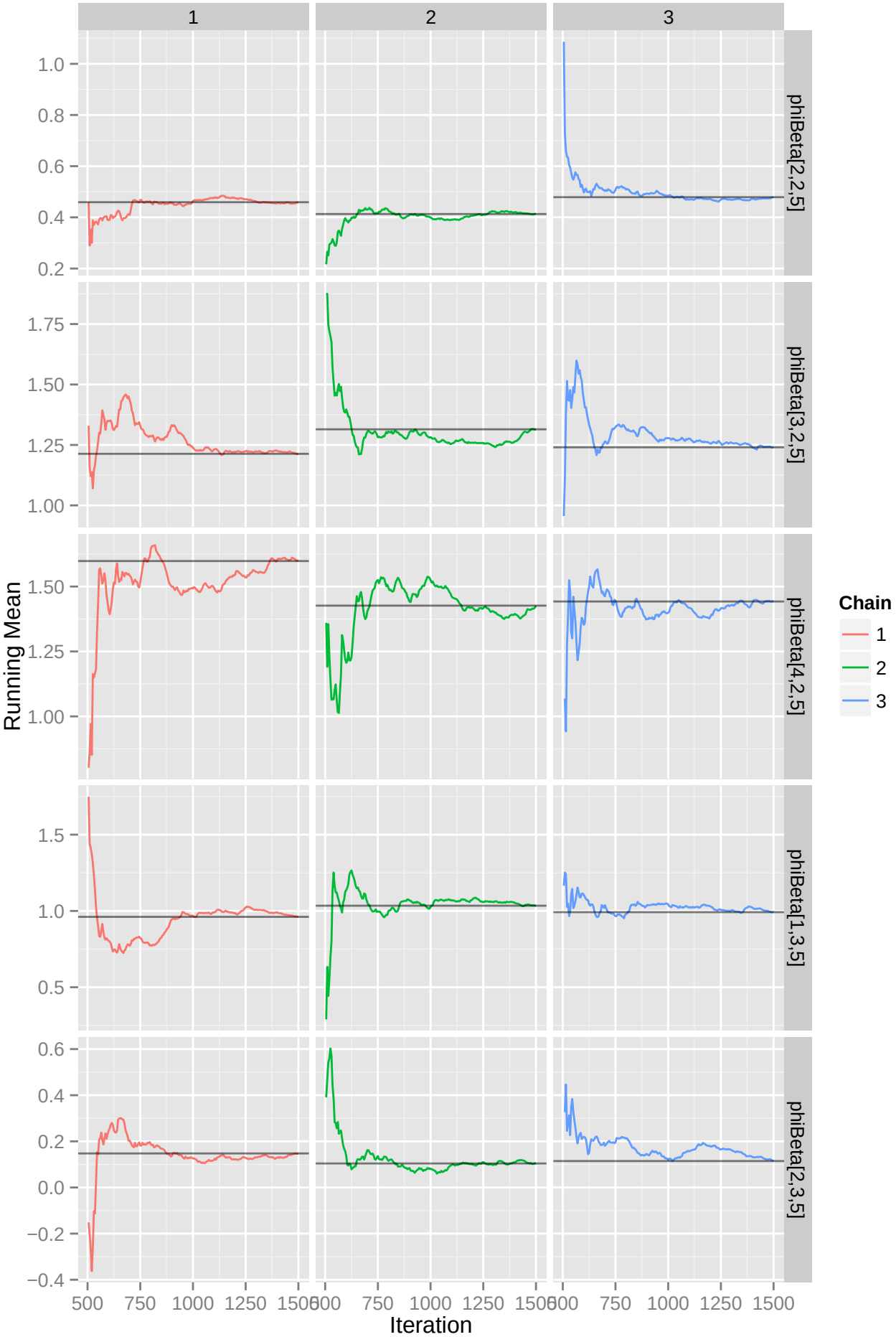

1
2
3
phiBeta[1,4,3]
phiBeta[2,4,3]
phiBeta[3,4,3]
phiBeta[4,4,3]
phiBeta[1,1,4]
Running Mean
Iteration
Chain
1
2
3

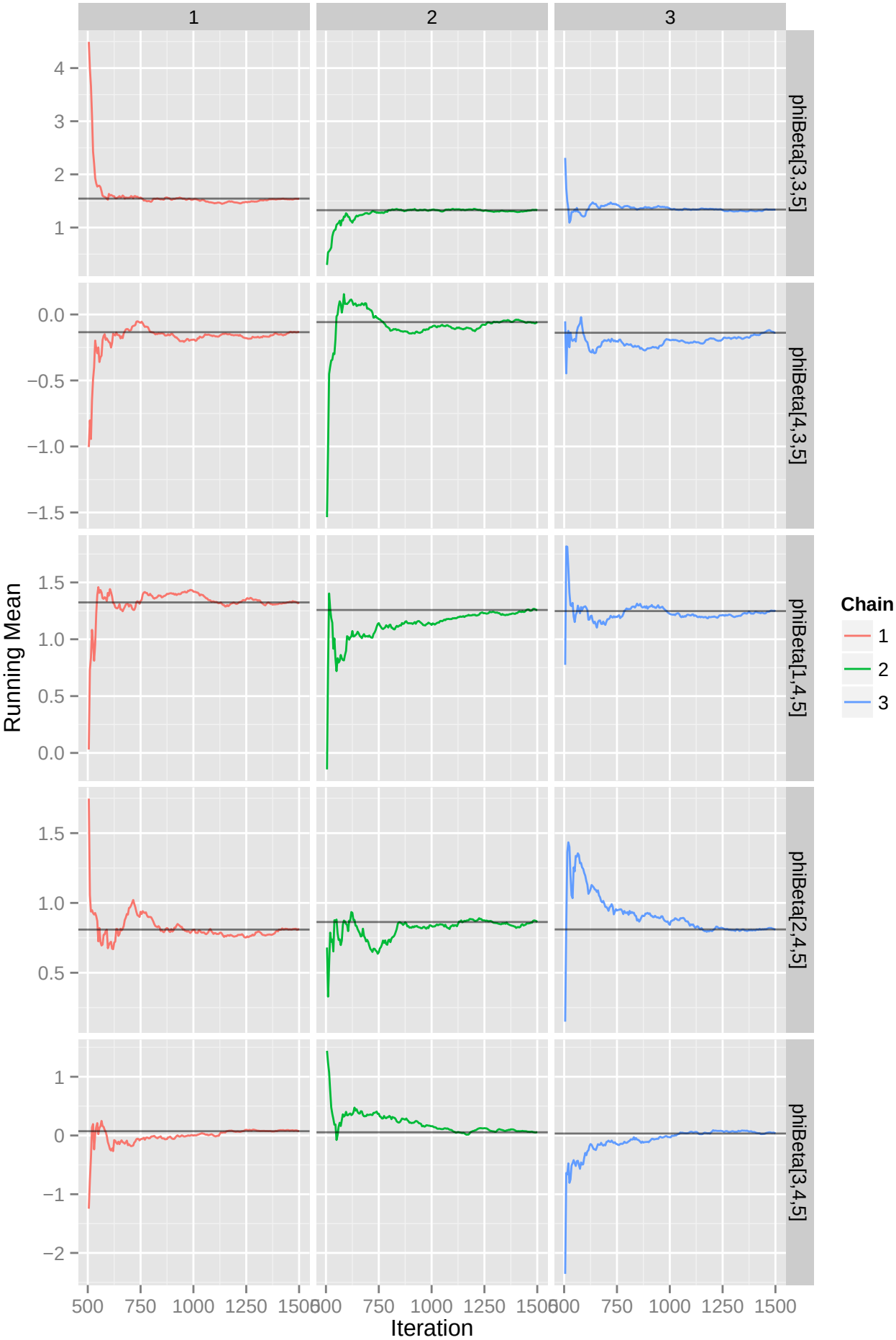

1
2
3
phiBeta[2,1,4]
phiBeta[3,1,4]
phiBeta[4,1,4]
phiBeta[1,2,4]
phiBeta[2,2,4]
Running Mean
Iteration
Chain
1
2
3

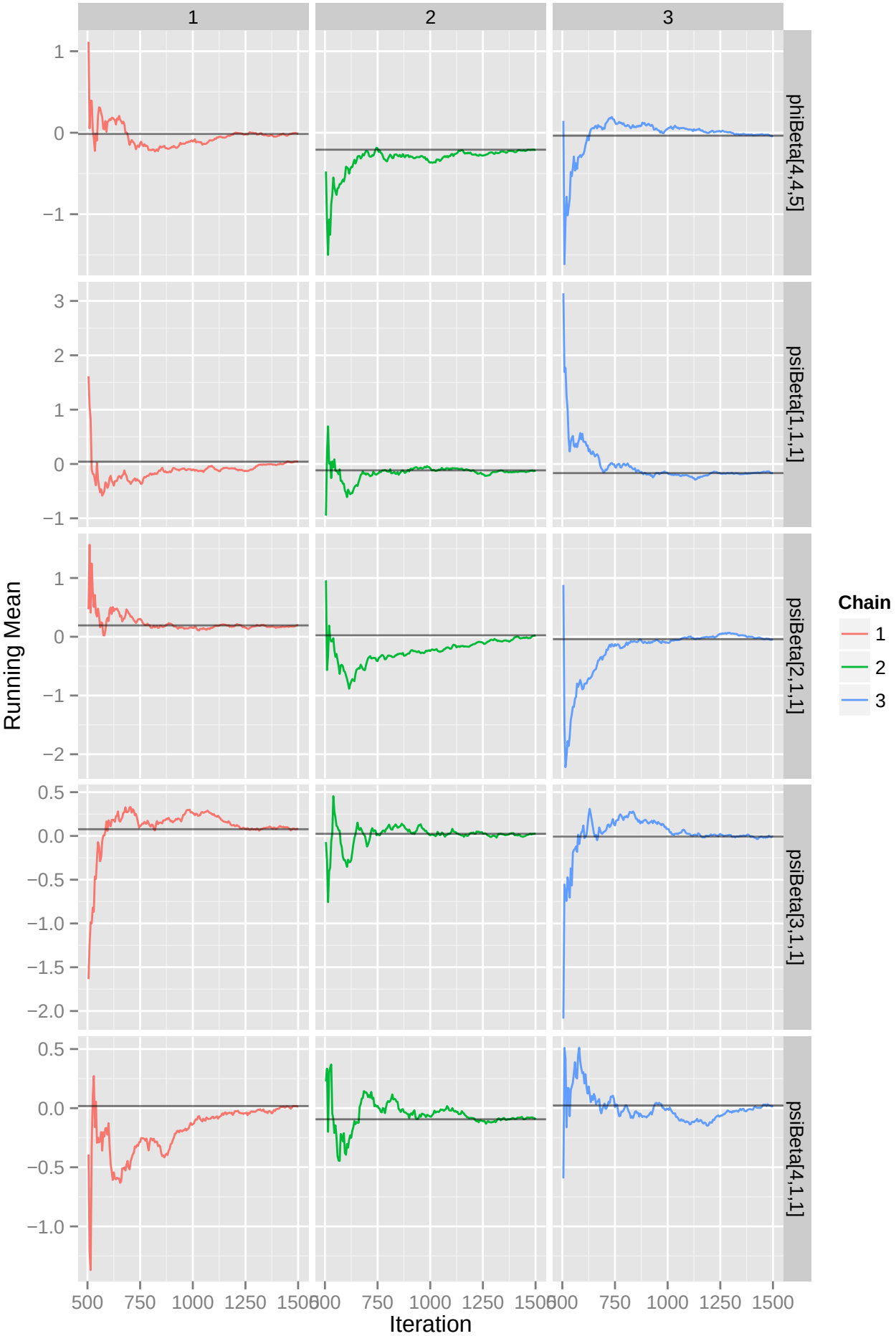

1
2
3
phiBeta[3,2,4]
phiBeta[4,2,4]
phiBeta[1,3,4]
phiBeta[2,3,4]
phiBeta[3,3,4]
Running Mean
Iteration
Chain
1
2
3

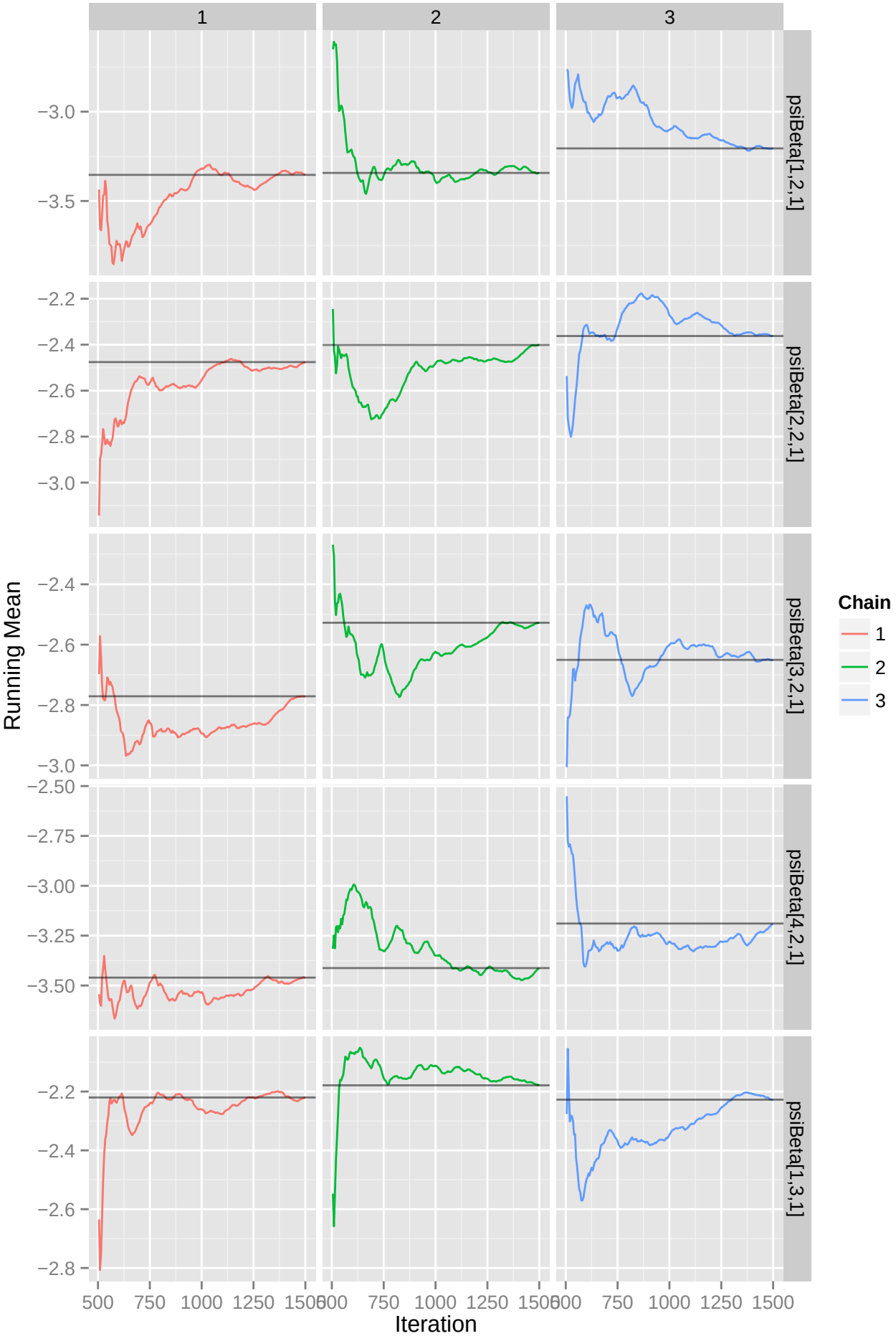

1
2
3
phiBeta[4,3,4]
phiBeta[1,4,4]
phiBeta[2,4,4]
phiBeta[3,4,4]
phiBeta[4,4,4]
Running Mean
Iteration
Chain
1
2
3

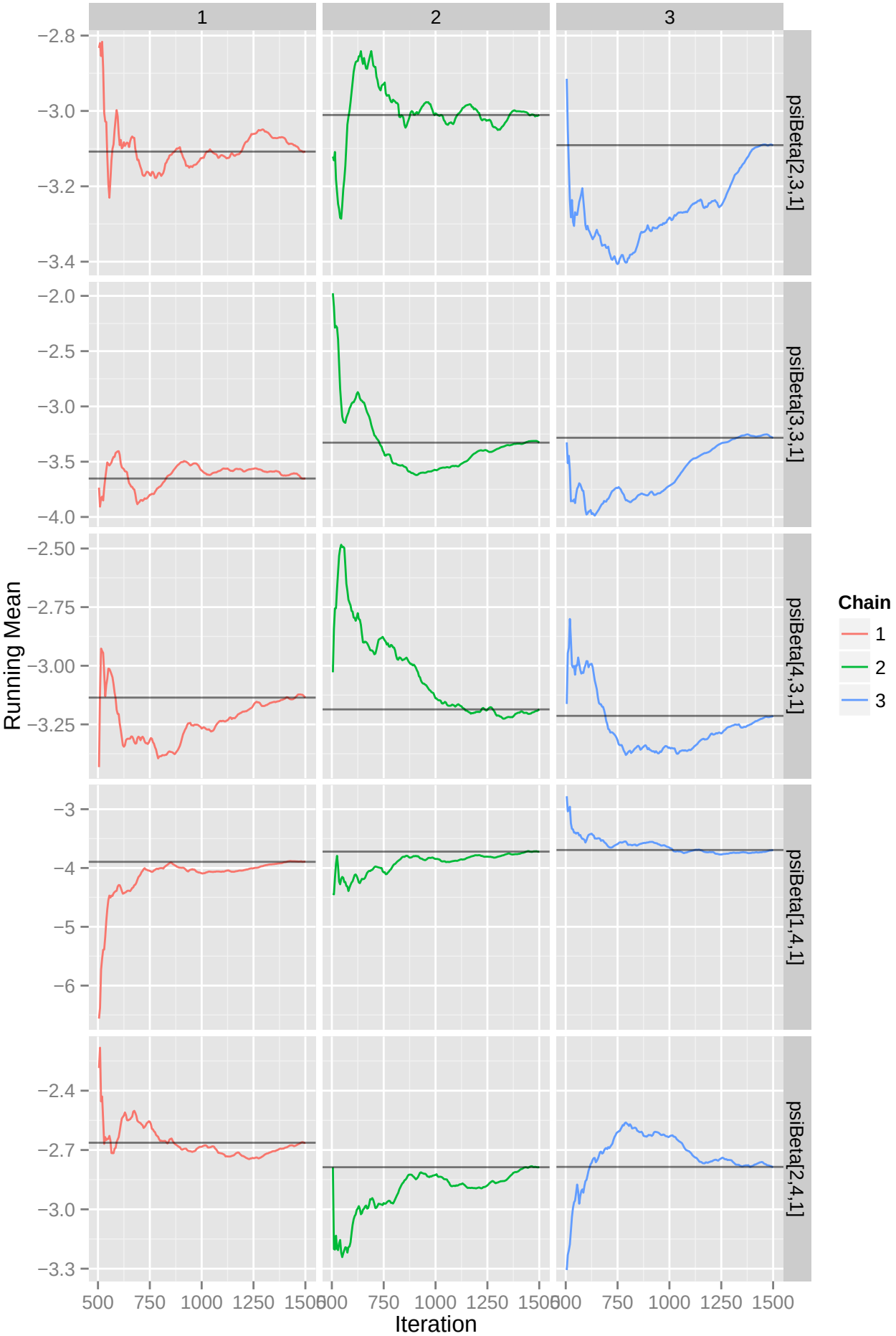

1
2
3
phiBeta[1,1,5]
phiBeta[2,1,5]
phiBeta[3,1,5]
phiBeta[4,1,5]
phiBeta[1,2,5]
Running Mean
Iteration
Chain
1
2
3

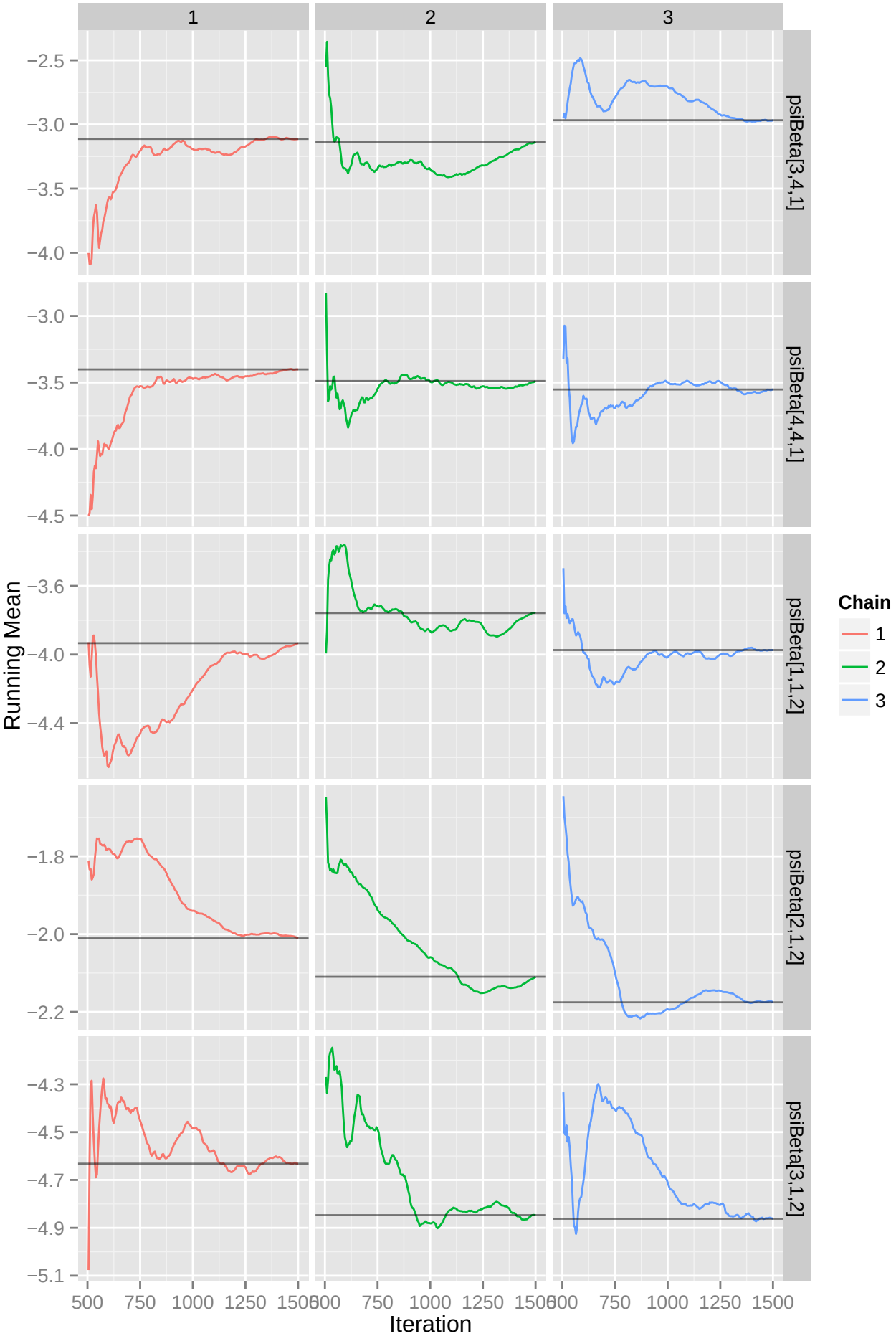

1
2
3
phiBeta[2,2,5]
phiBeta[3,2,5]
phiBeta[4,2,5]
phiBeta[1,3,5]
phiBeta[2,3,5]
Running Mean
Iteration
Chain
1
2
3

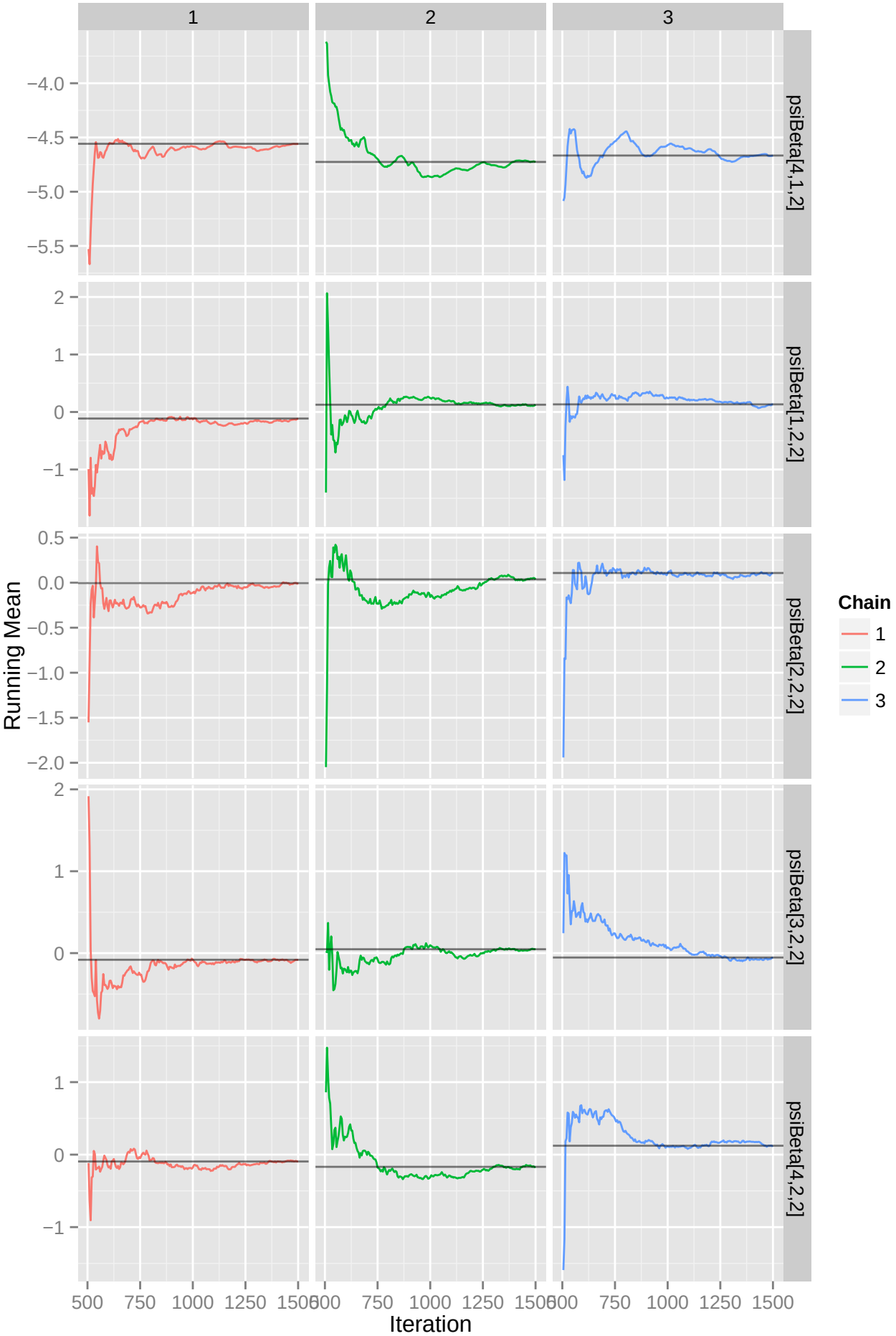

1
2
3
phiBeta[3,3,5]
phiBeta[4,3,5]
phiBeta[1,4,5]
phiBeta[2,4,5]
phiBeta[3,4,5]
Running Mean
Iteration
Chain
1
2
3

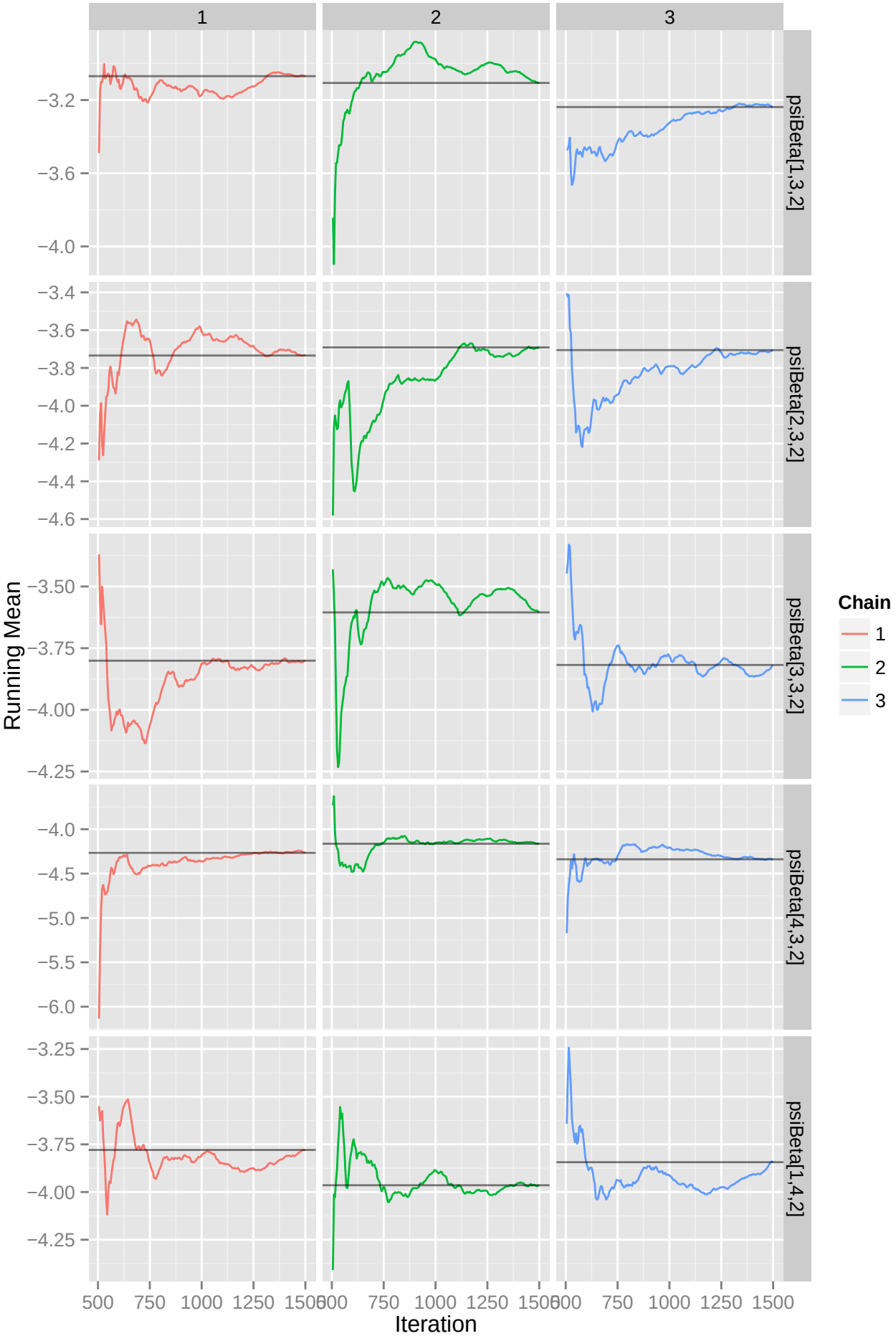

1
2
3
phiBeta[4,4,5]
psiBeta[1,1,1]
psiBeta[2,1,1]
psiBeta[3,1,1]
psiBeta[4,1,1]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[1,2,1]
psiBeta[2,2,1]
psiBeta[3,2,1]
psiBeta[4,2,1]
psiBeta[1,3,1]
Running Mean
Iteration
Chain
1
2
3
−3.0
−3.5
−2.2
−2.4
−2.6
−2.8
−3.0
−2.4
−2.6
−2.8
−3.0
−2.50
−2.75
−3.00
−3.25
−3.50
−2.2
−2.4
−2.6
−2.8
500
750
1000
1250
1500


1
2
3
psiBeta[2,3,1]
psiBeta[3,3,1]
psiBeta[4,3,1]
psiBeta[1,4,1]
psiBeta[2,4,1]
Running Mean
Iteration
Chain
1
2
3
−2.8
−3.0
−3.2
−3.4
−2.0
−2.5
−3.0
−3.5
−4.0
−2.50
−2.75
−3.00
−3.25
−3
−4
−5
−6
−2.4
−2.7
−3.0
−3.3
500
750
1000
1250
1500


1
2
3
psiBeta[3,4,1]
psiBeta[4,4,1]
psiBeta[1,1,2]
psiBeta[2,1,2]
psiBeta[3,1,2]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[4,1,2]
psiBeta[1,2,2]
psiBeta[2,2,2]
psiBeta[3,2,2]
psiBeta[4,2,2]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[1,3,2]
psiBeta[2,3,2]
psiBeta[3,3,2]
psiBeta[4,3,2]
psiBeta[1,4,2]
Running Mean
Iteration
Chain
1
2
3
−3.2
−3.6
−4.0
−3.4
−3.6
−3.8
−4.0
−4.2
−4.4
−4.6
−3.50
−3.75
−4.00
−4.25
−4.0
−4.5
−5.0
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−3.50
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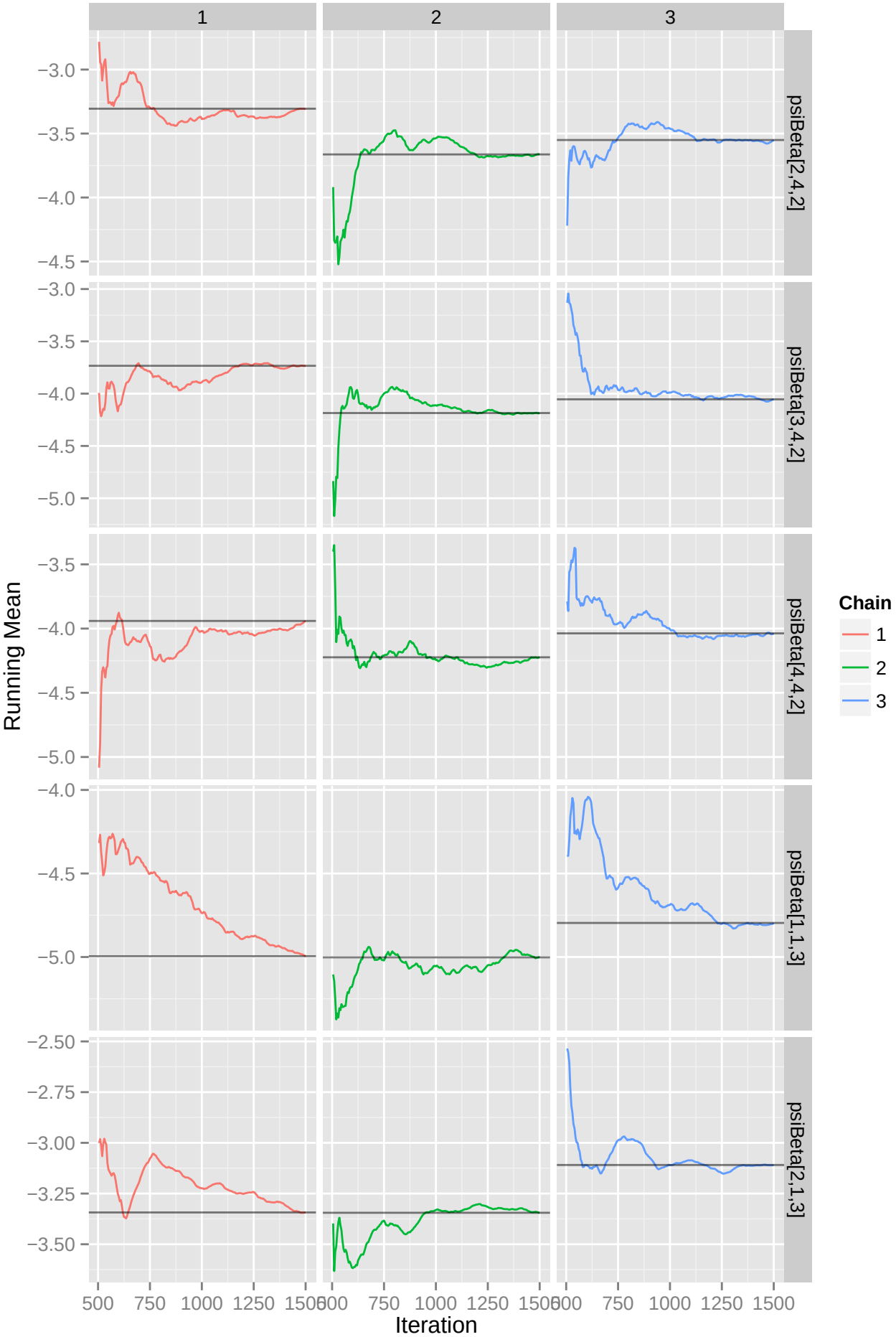
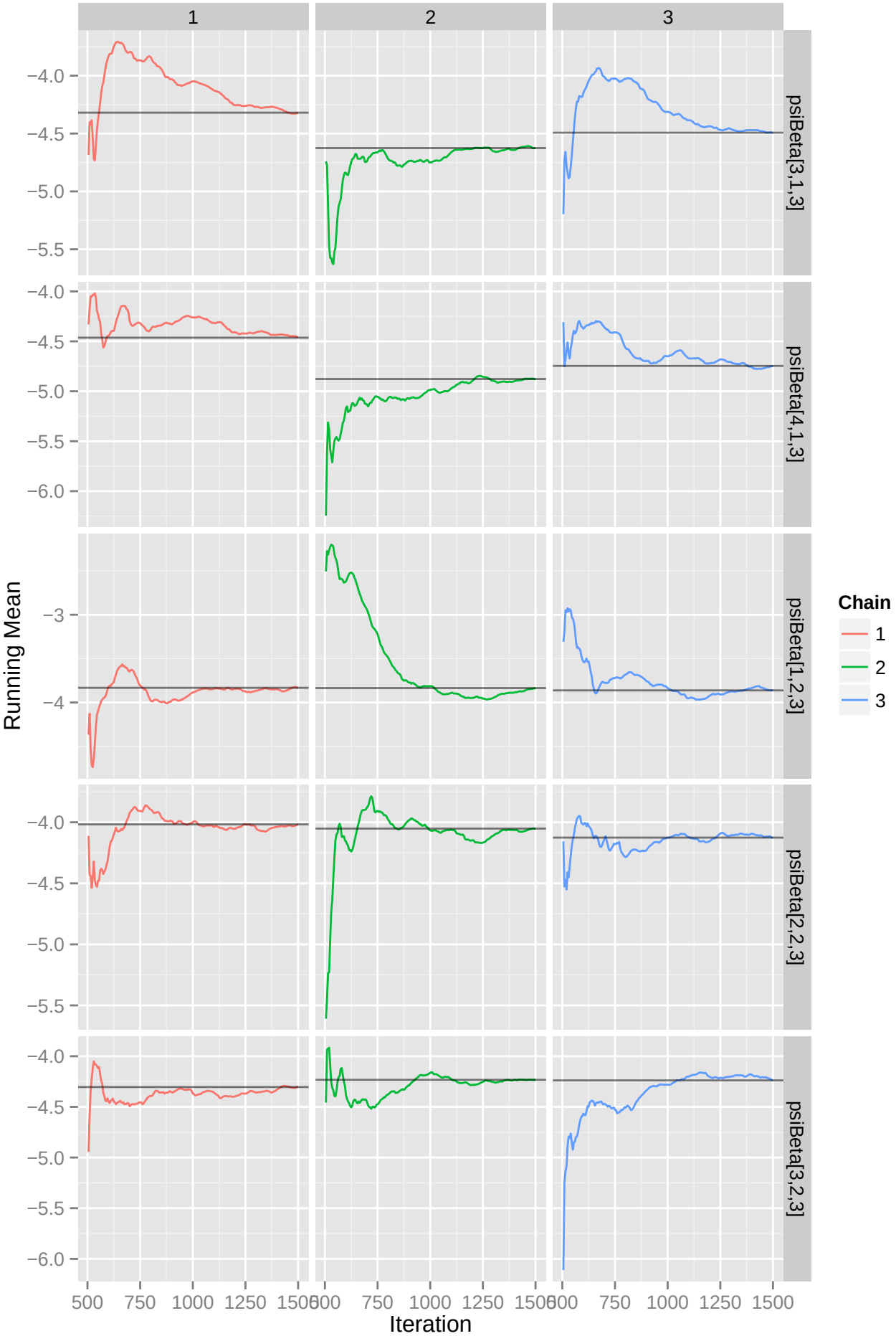
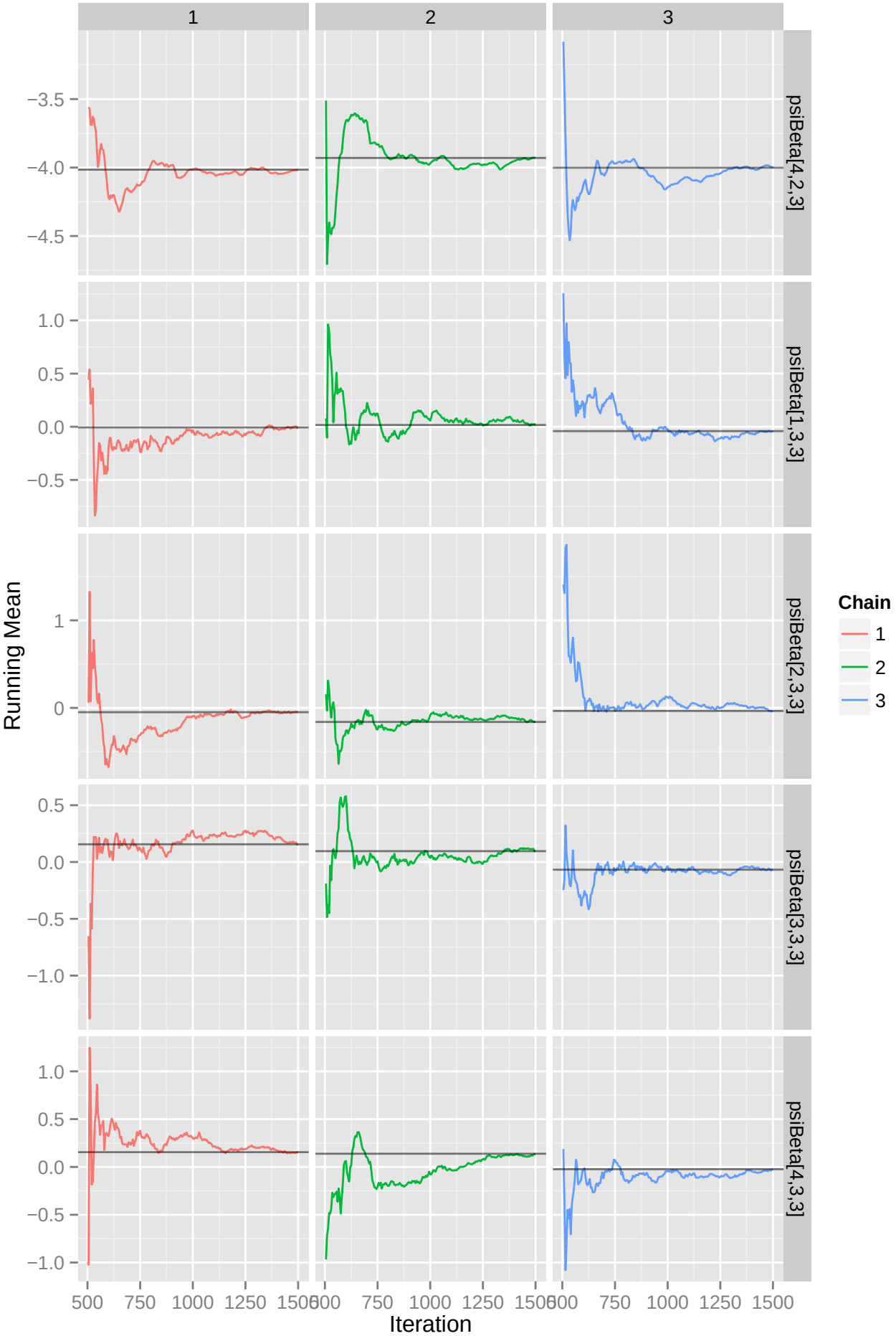
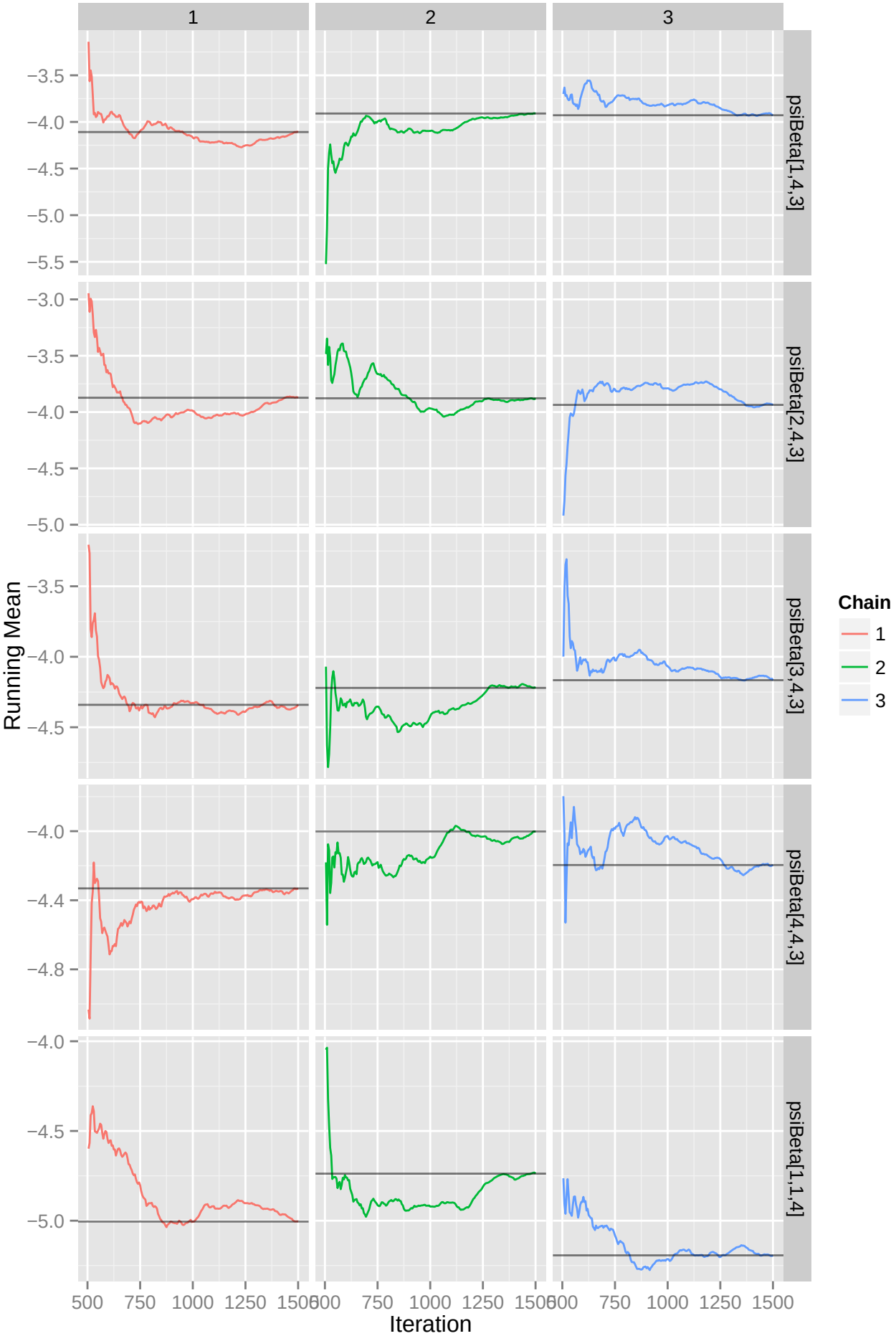
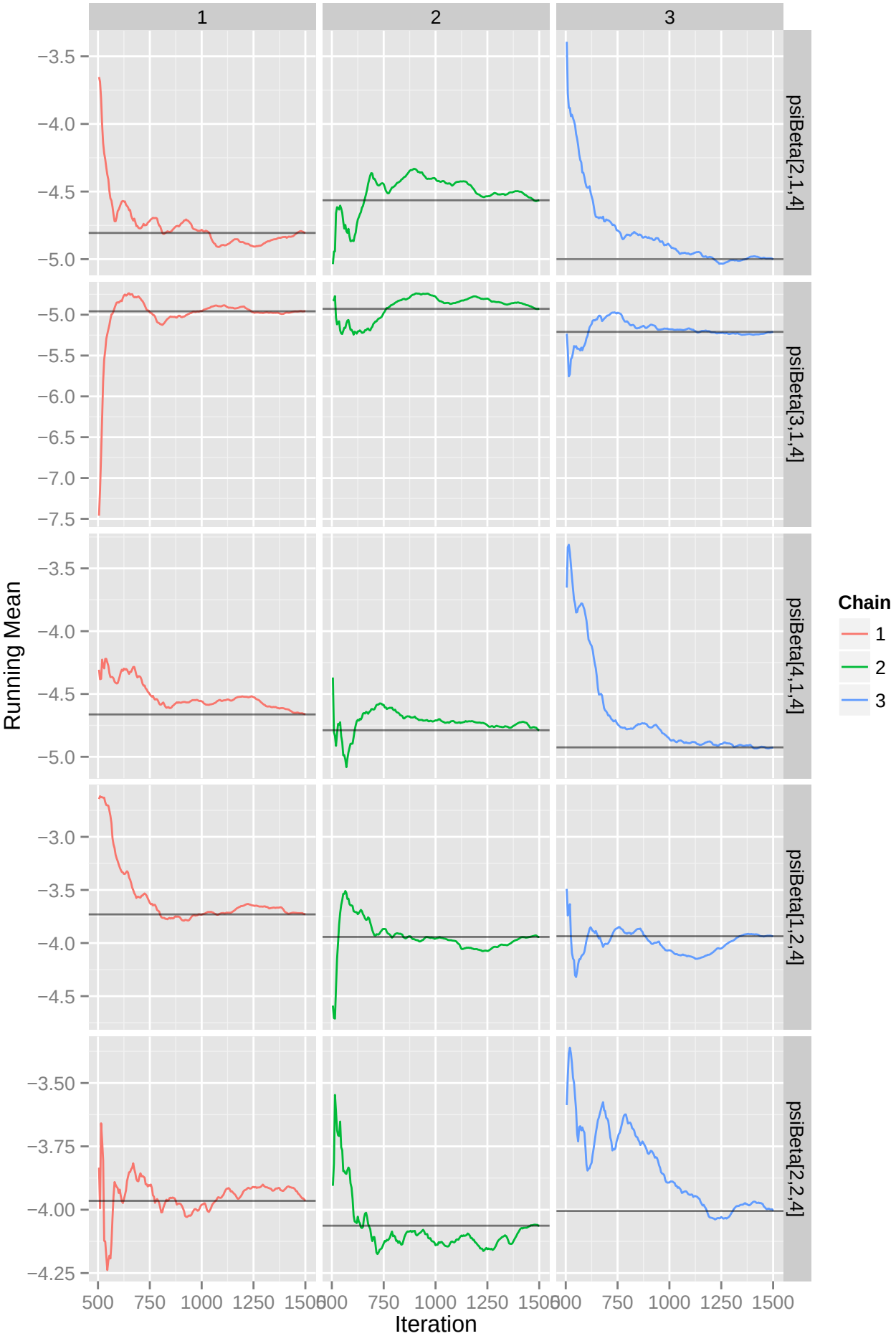
−4.00
−4.25
500
750
1000
1250
1500

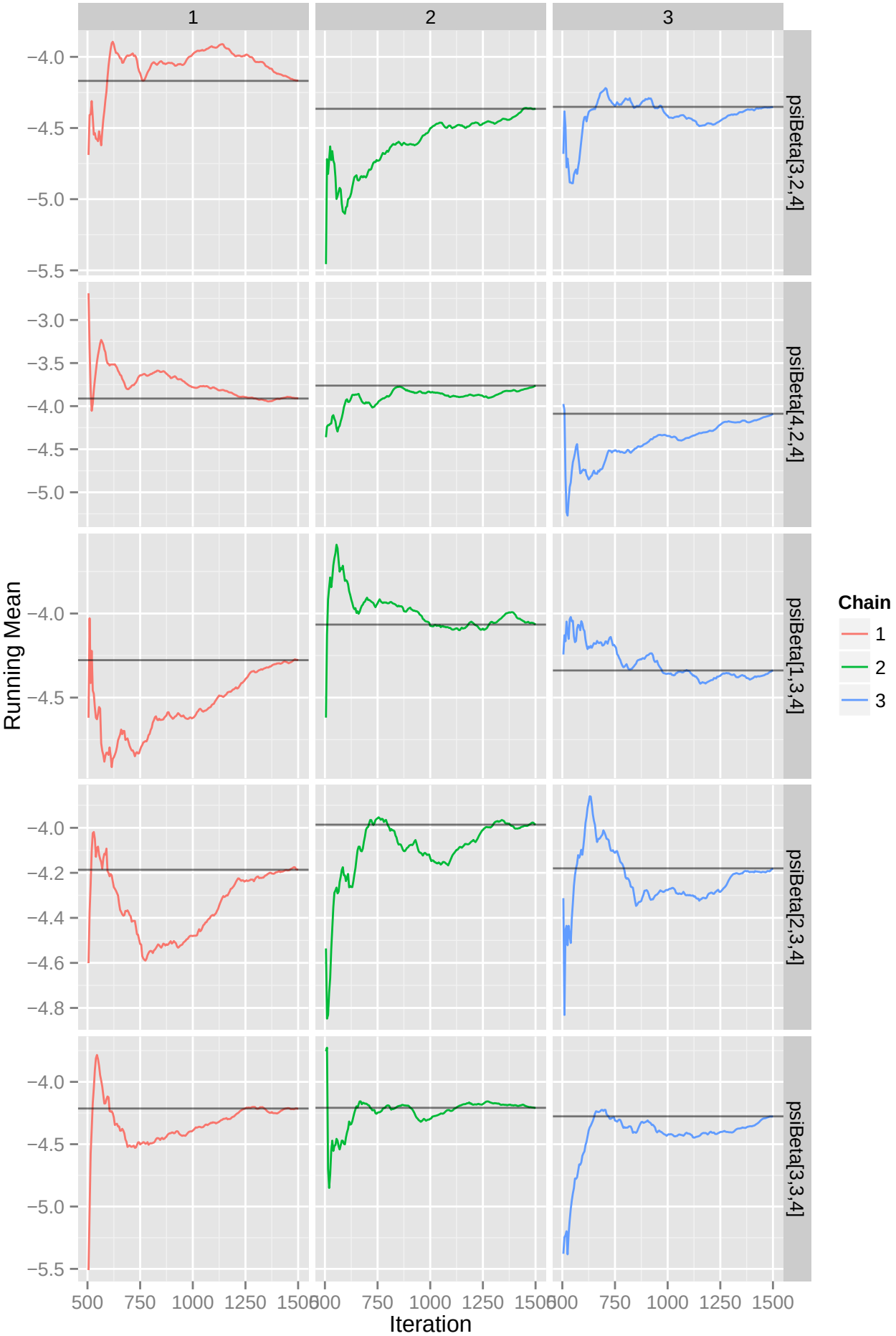

1
2
3
psiBeta[2,4,2]
psiBeta[3,4,2]
psiBeta[4,4,2]
psiBeta[1,1,3]
psiBeta[2,1,3]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[3,1,3]
psiBeta[4,1,3]
psiBeta[1,2,3]
psiBeta[2,2,3]
psiBeta[3,2,3]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[4,2,3]
psiBeta[1,3,3]
psiBeta[2,3,3]
psiBeta[3,3,3]
psiBeta[4,3,3]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[1,4,3]
psiBeta[2,4,3]
psiBeta[3,4,3]
psiBeta[4,4,3]
psiBeta[1,1,4]
Running Mean
Iteration
Chain
1
2
3


1
2
3
psiBeta[2,1,4]
psiBeta[3,1,4]
psiBeta[4,1,4]
psiBeta[1,2,4]
psiBeta[2,2,4]
Running Mean
Iteration
Chain
1
2
3
−3.5
−4.0
−4.5
−5.0
−5.5
−6.0
−6.5
−7.0
−7.5
−3.0
−3.50
−3.75
−4.00
−4.25
500
750
1000
1250
1500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2
3
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psiBeta[1,3,4]
psiBeta[2,3,4]
psiBeta[3,3,4]
Running Mean
Iteration
Chain
1
2
3
−4.0
−4.5
−5.0
−5.5
−3.0
−3.5
−4.2
−4.4
−4.6
−4.8
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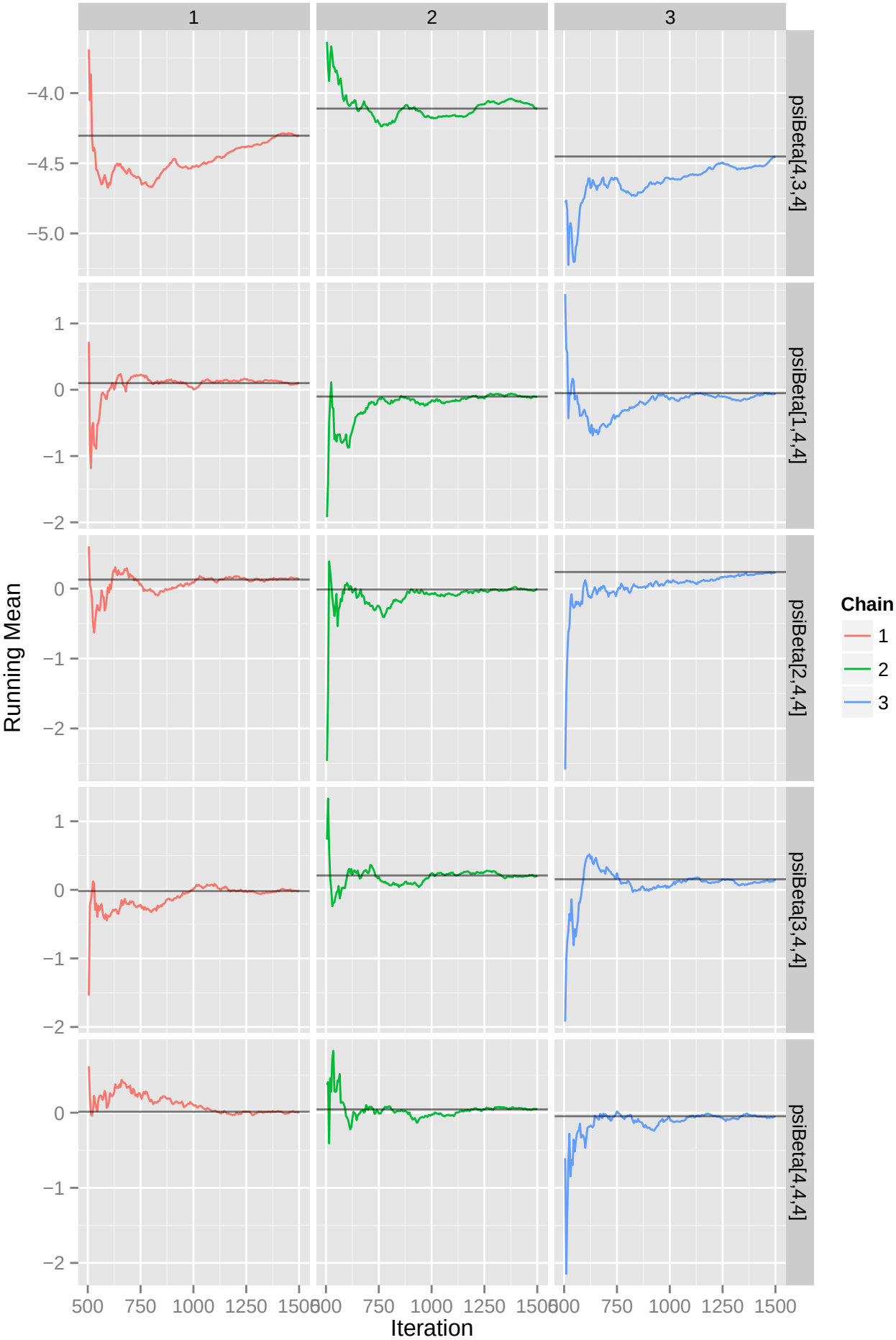
750
1000
1250
1500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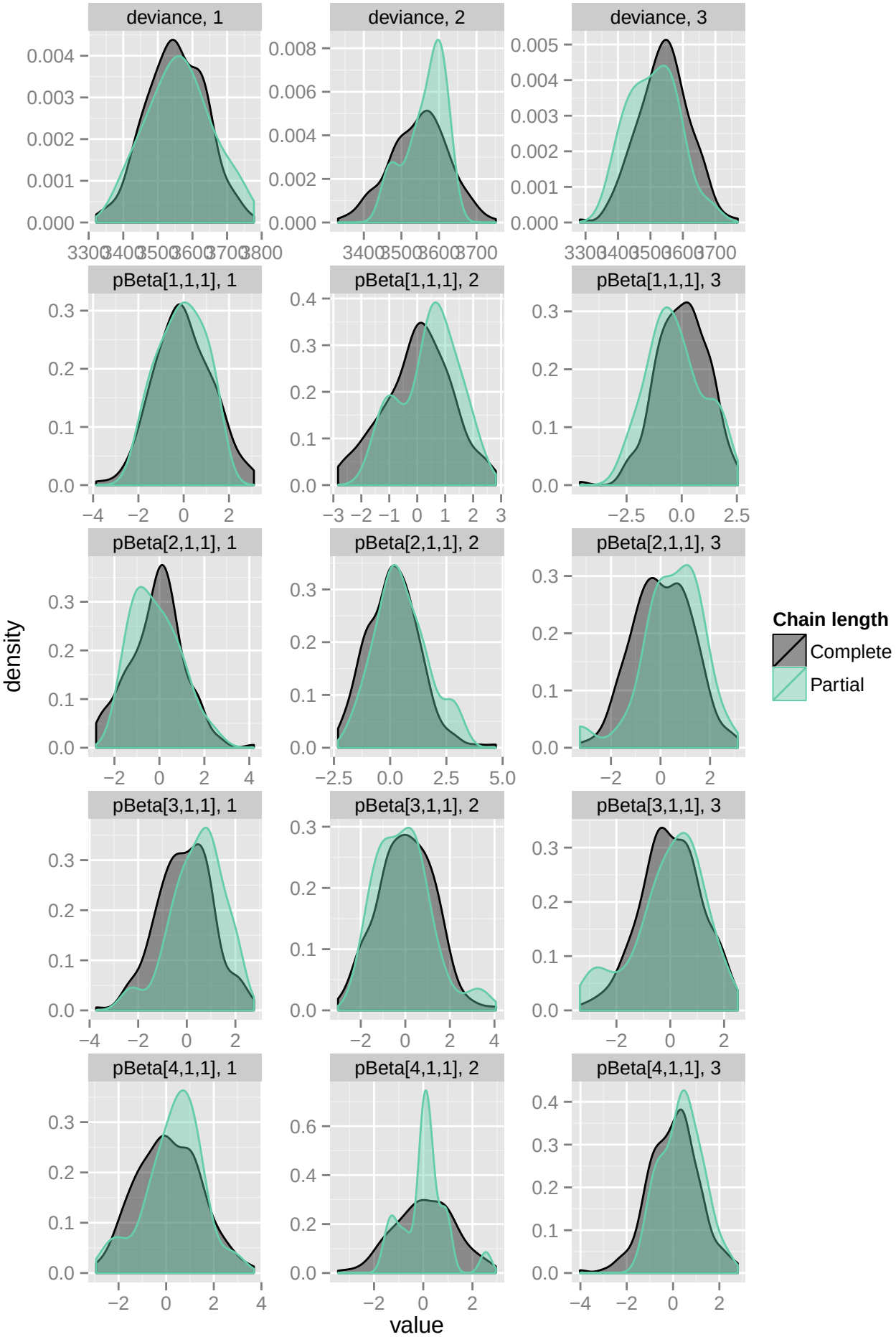
psiBeta[4,4,4]
Running Mean
Iteration
Chain
1
2
3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deviance, 3
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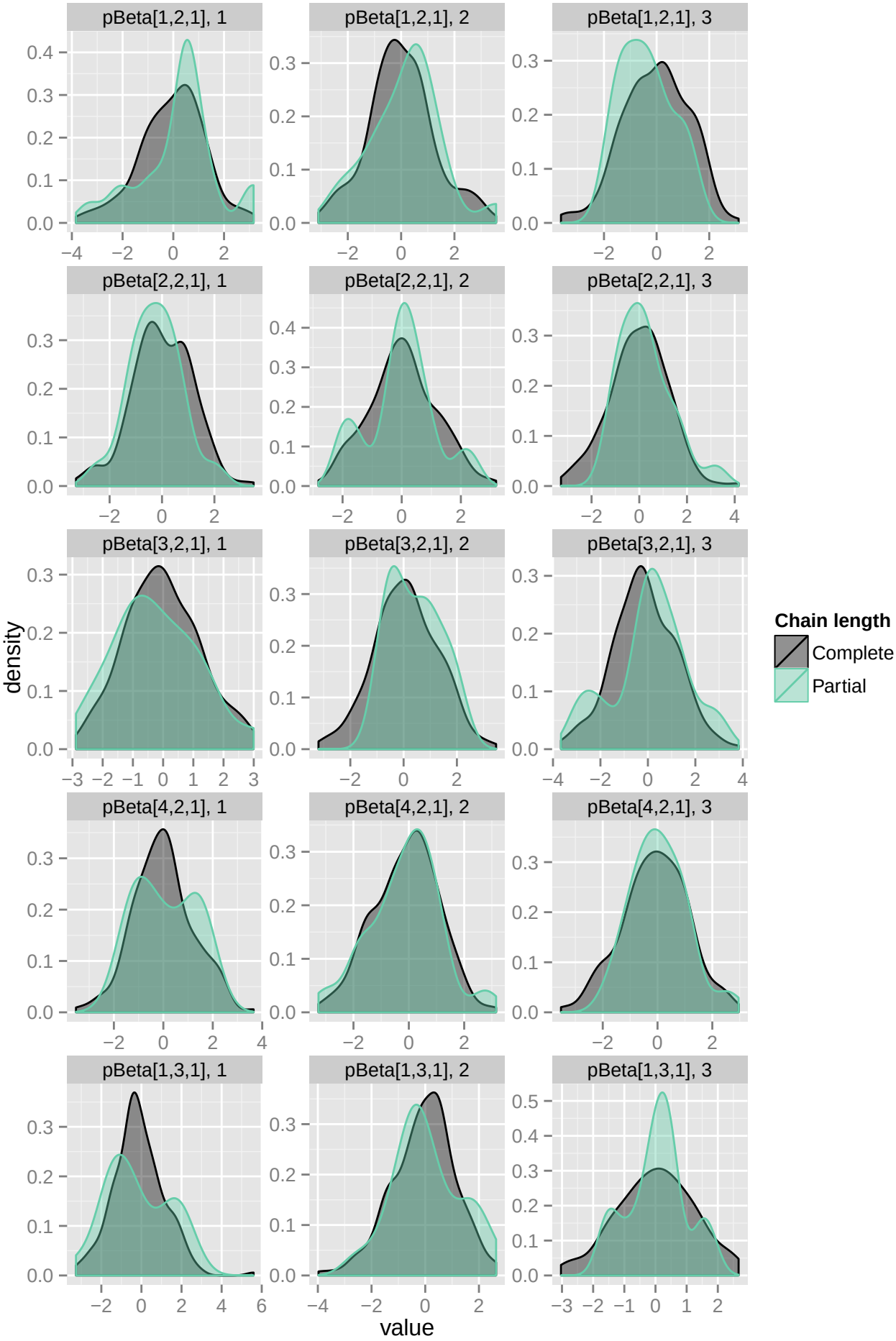
density
value
Chain length
Complete
Partial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Chain length
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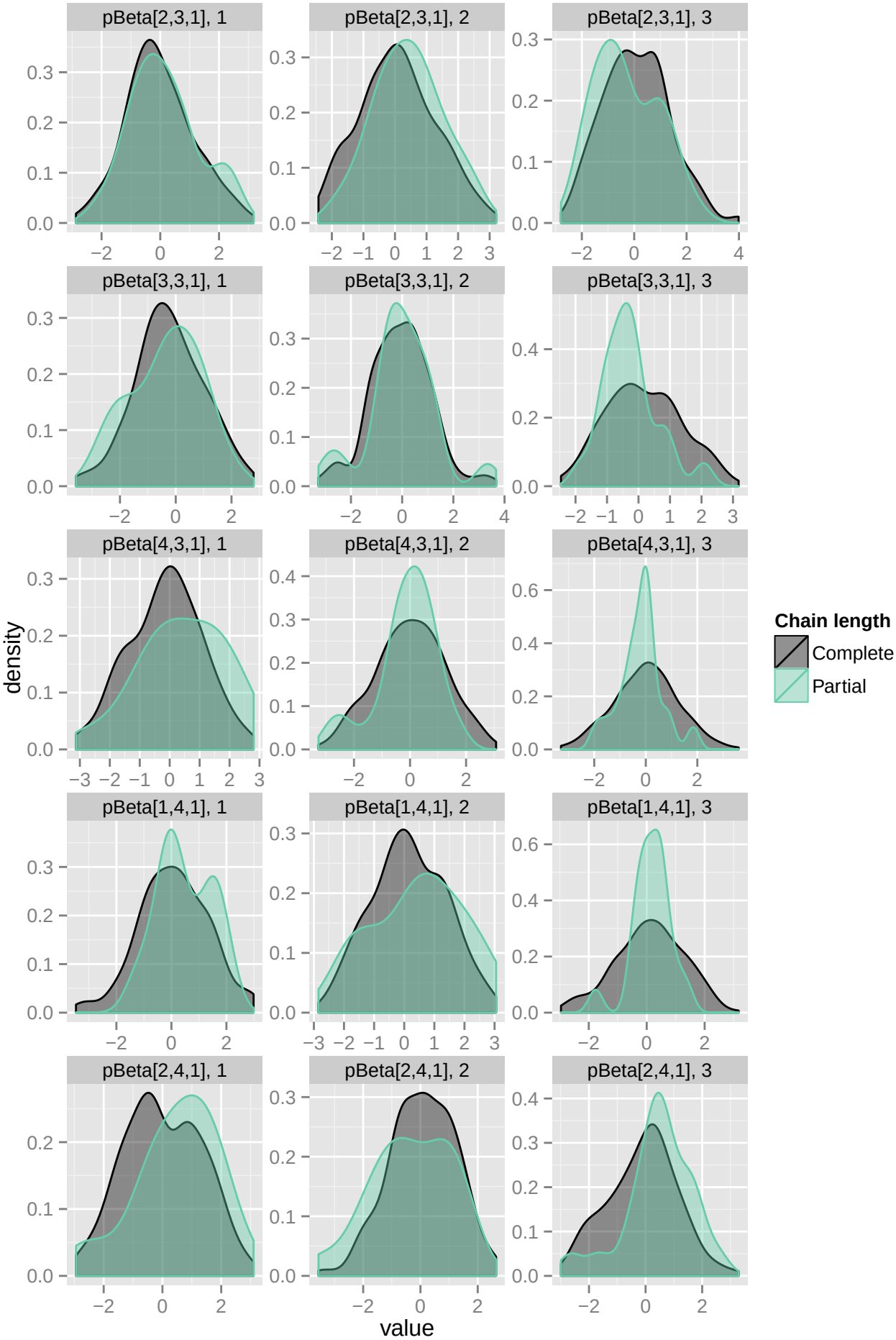
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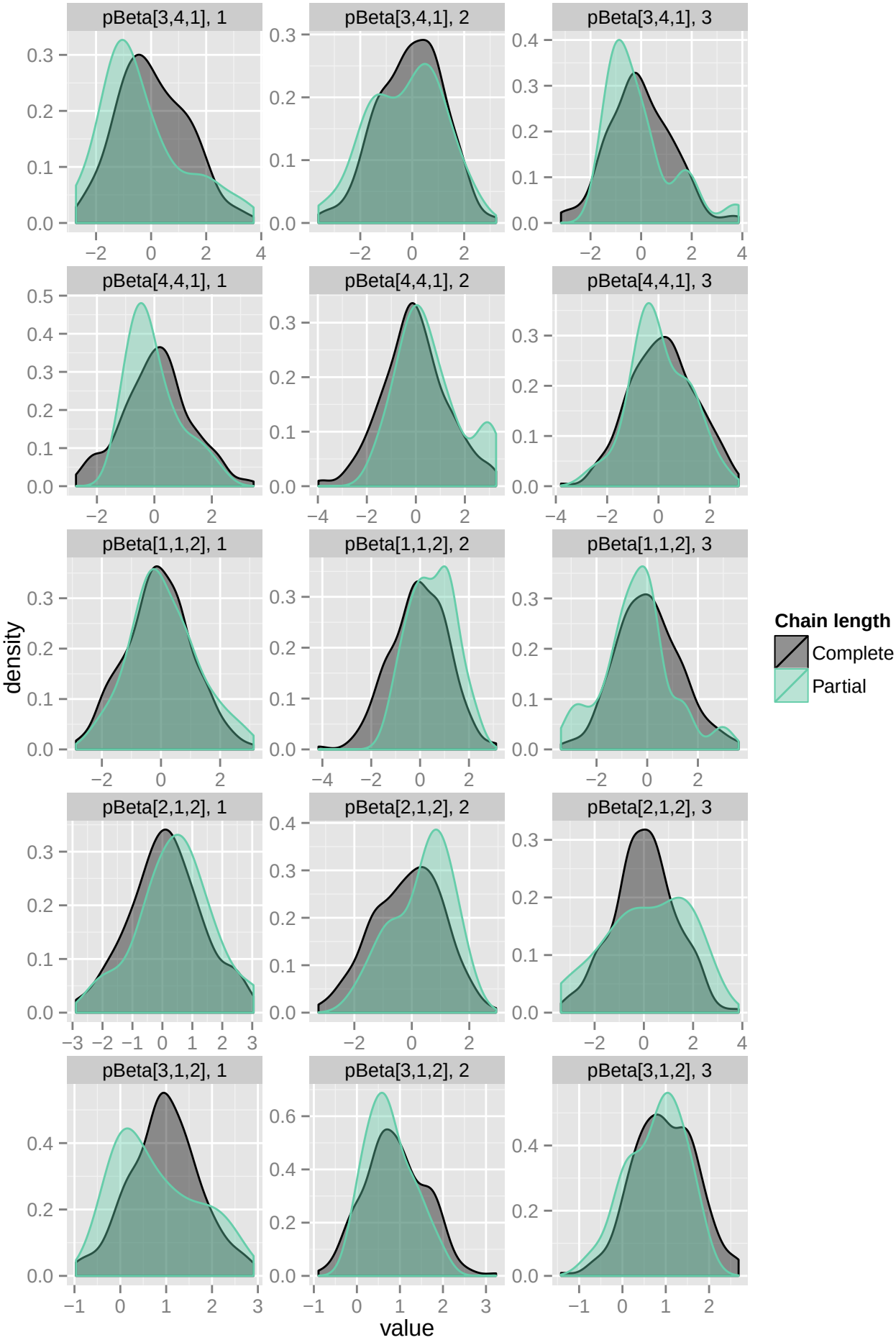
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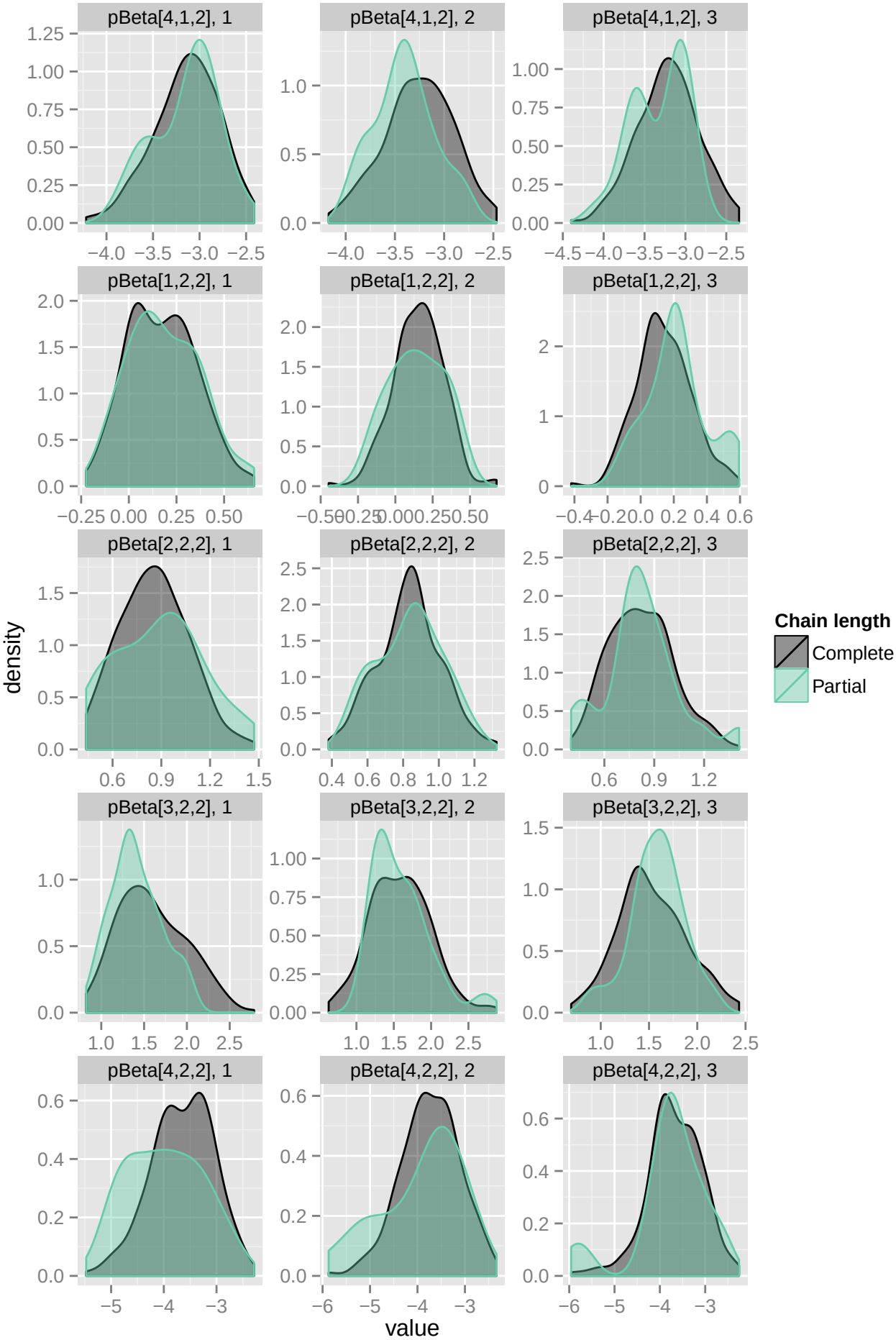
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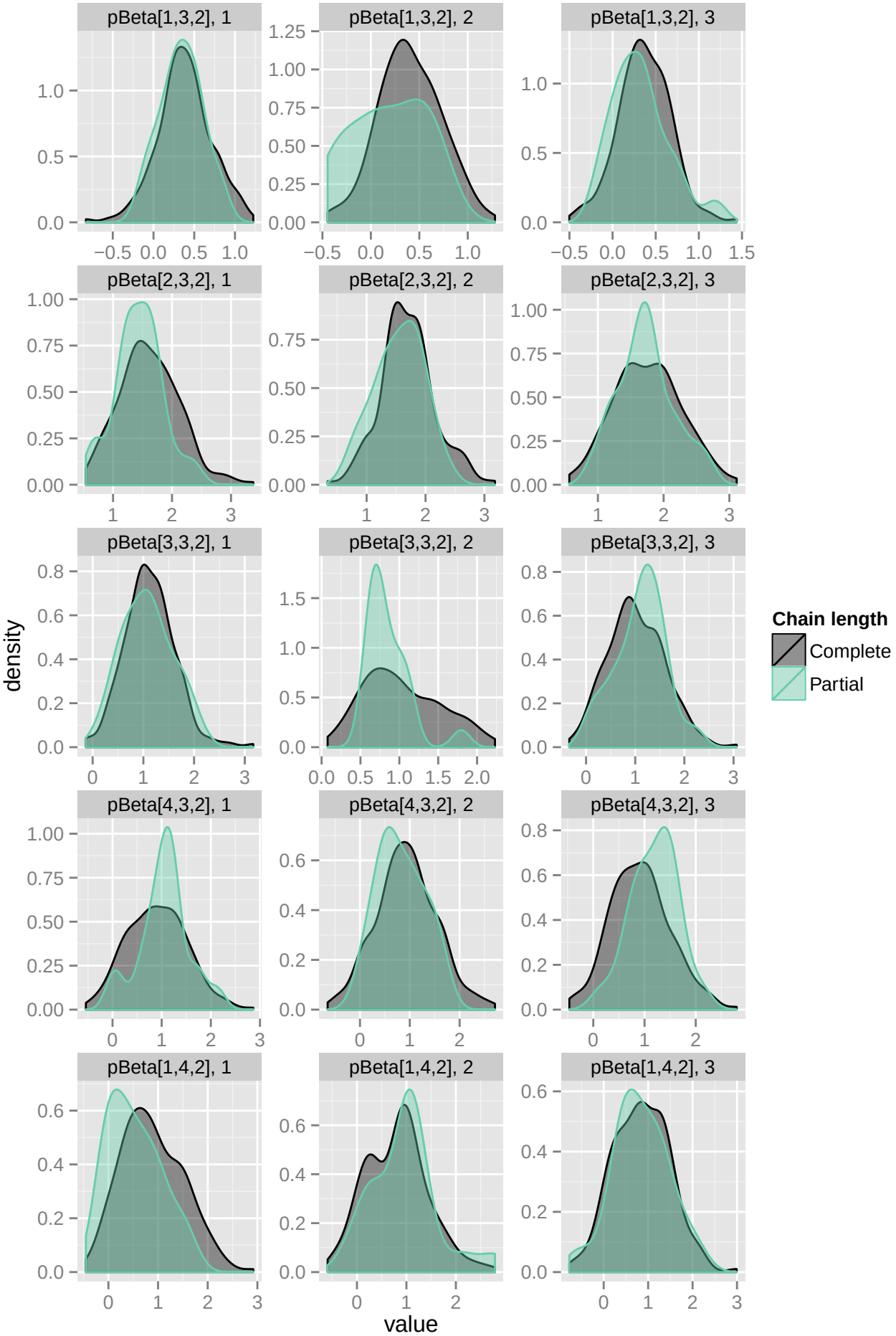
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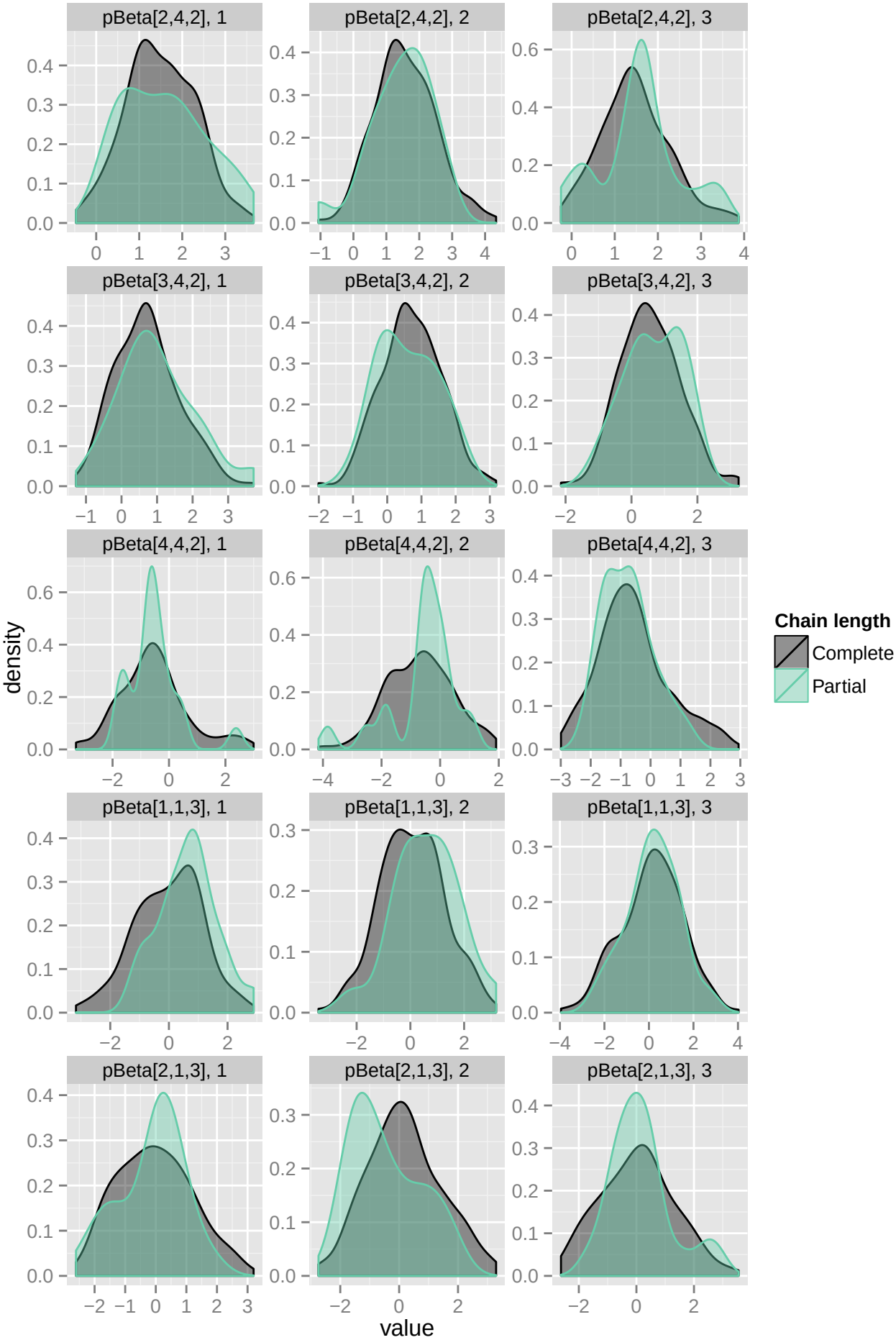
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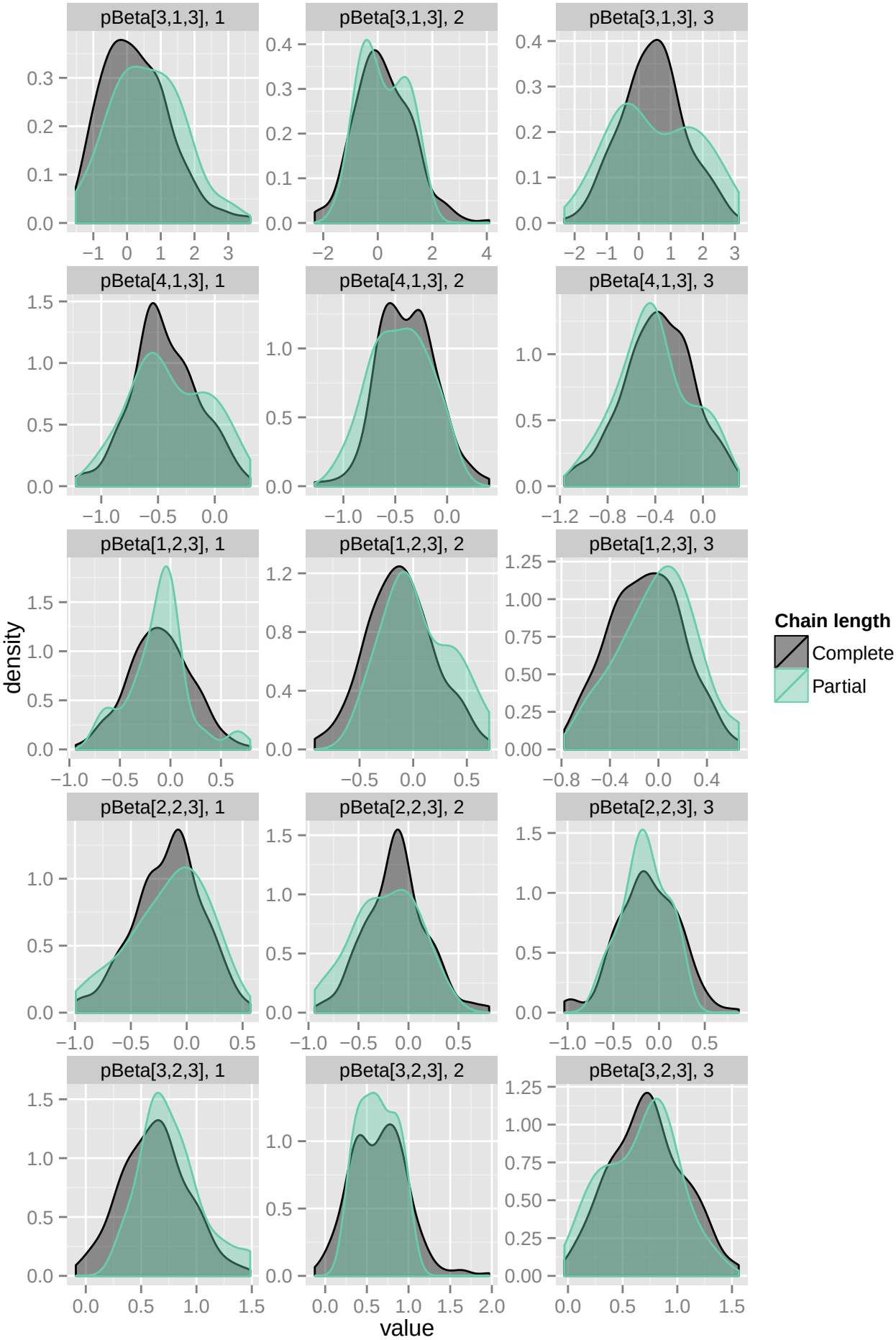
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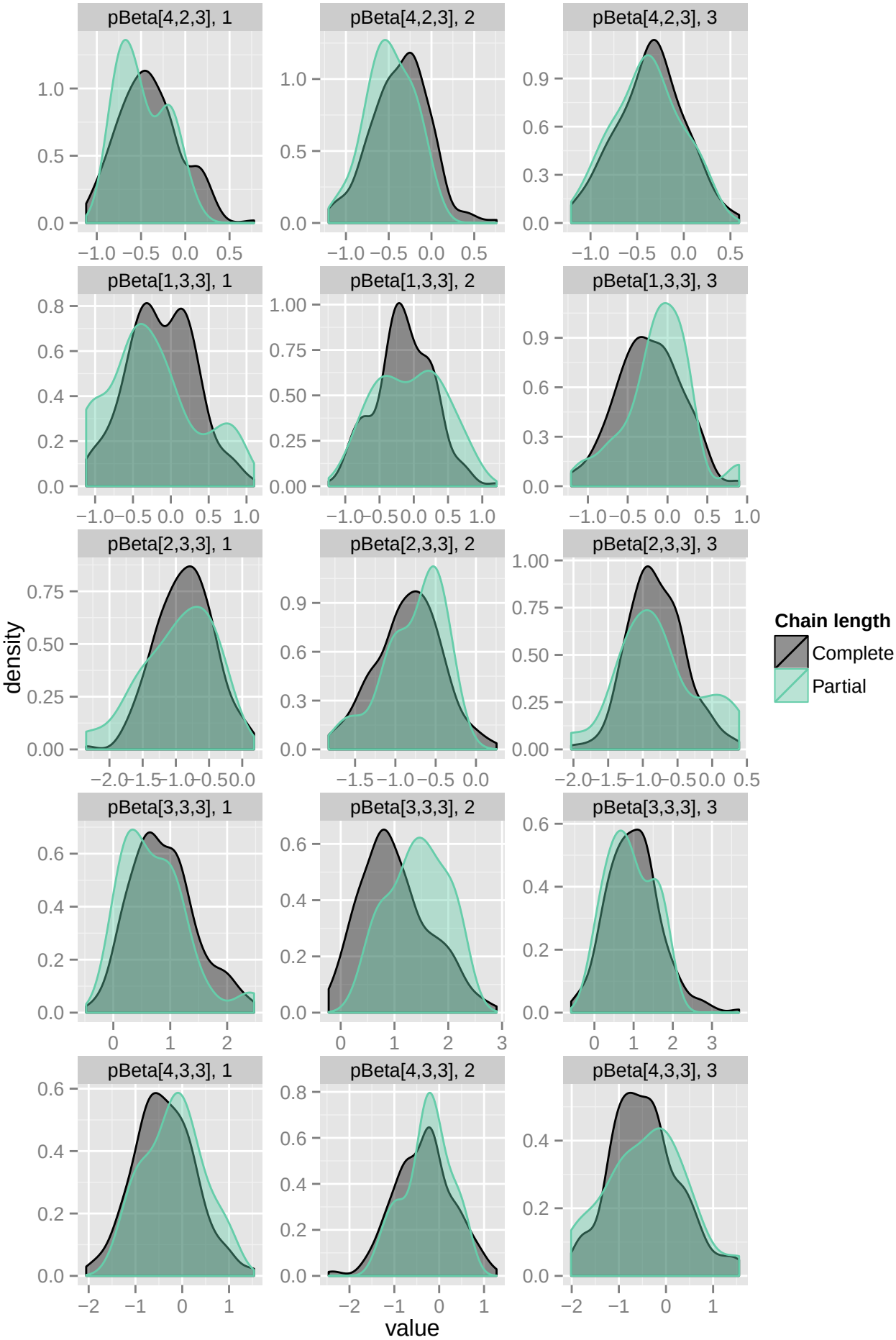
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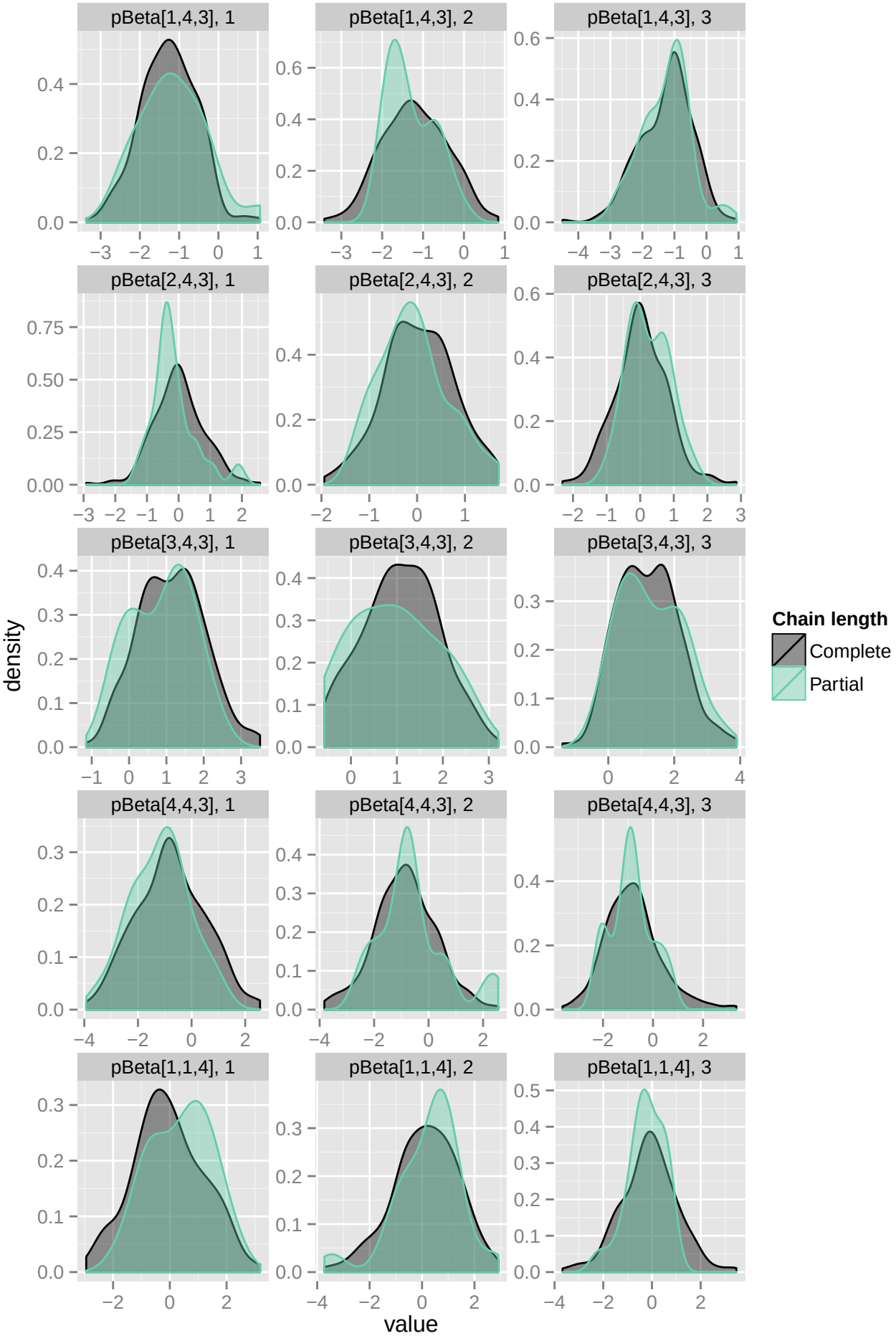
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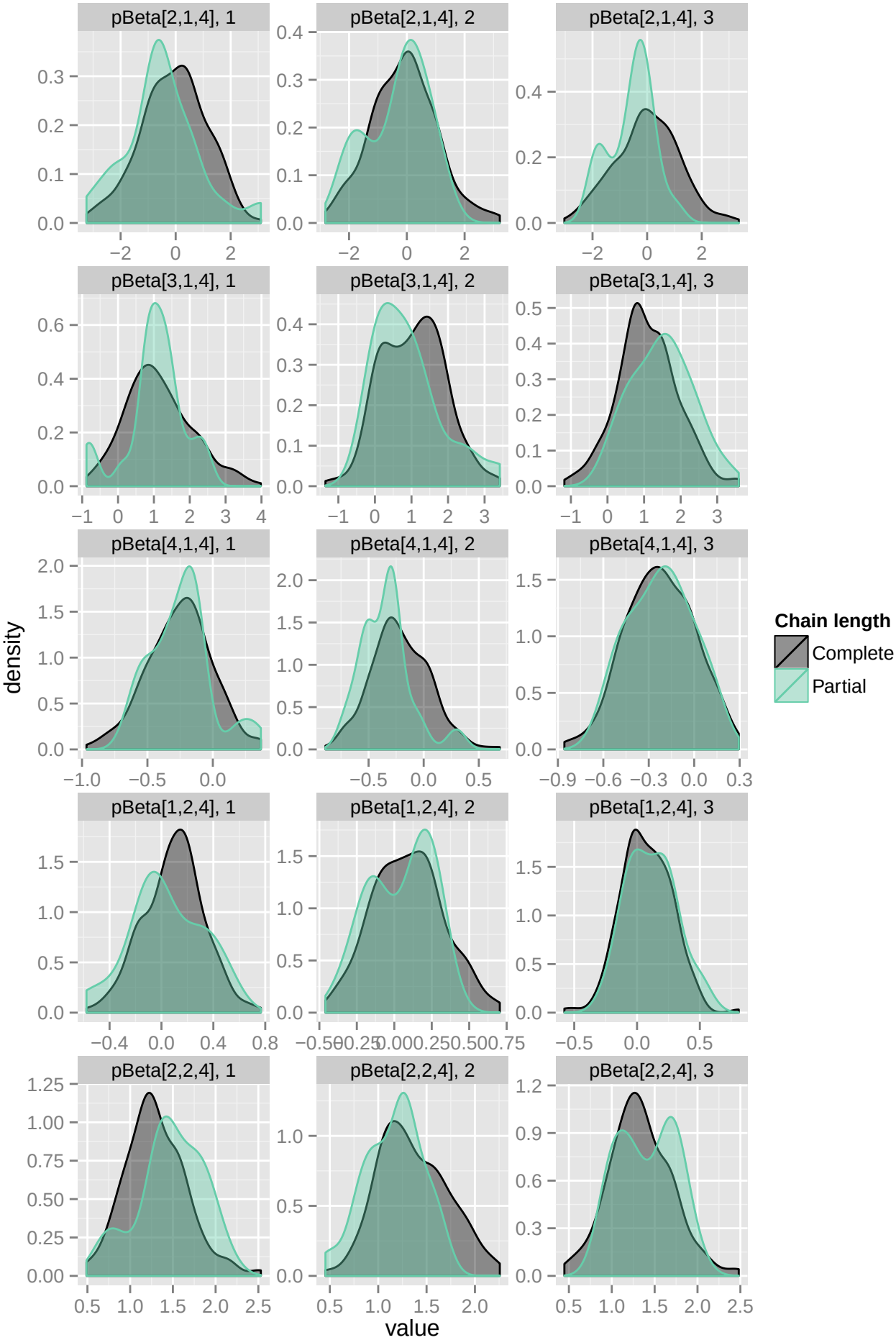
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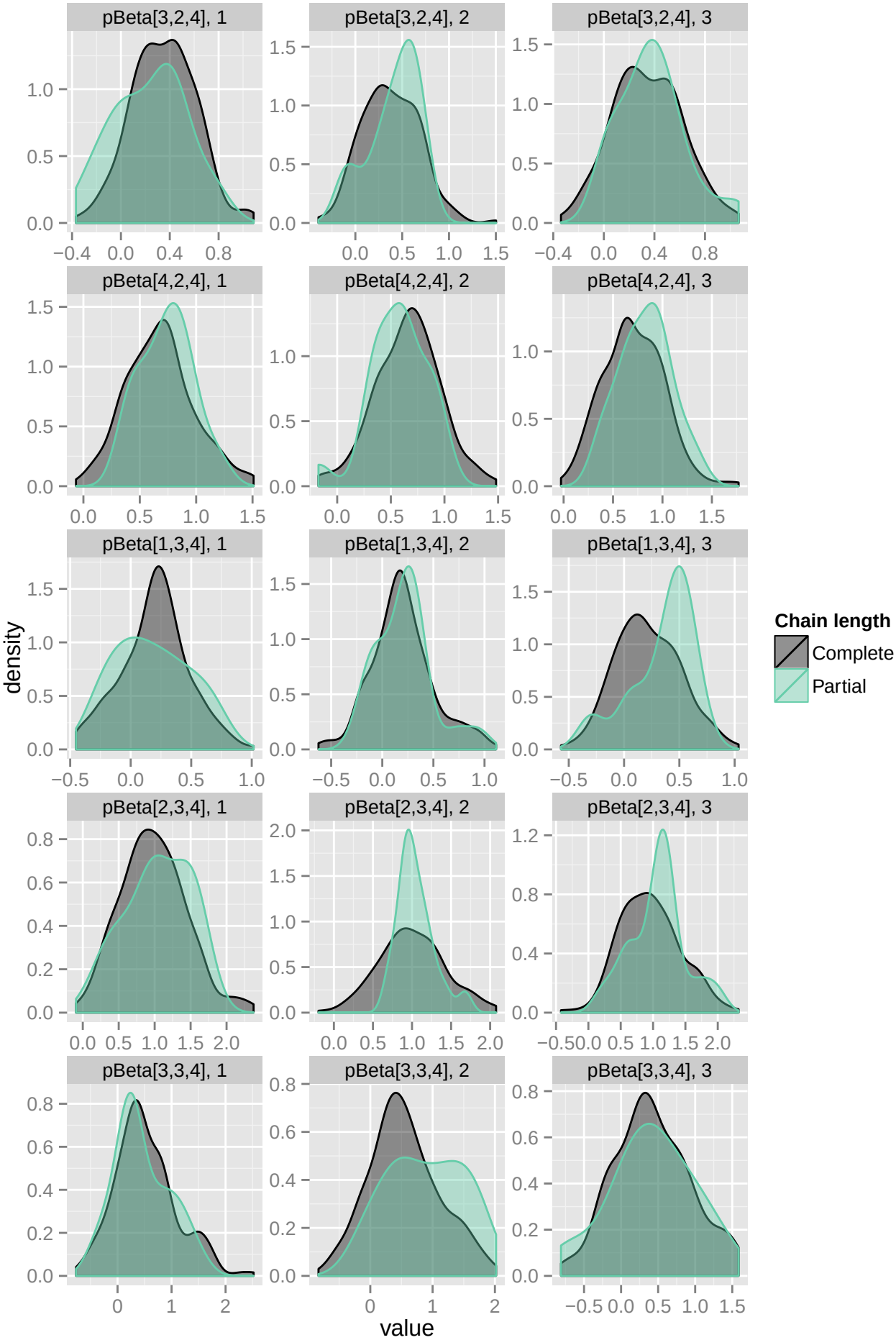
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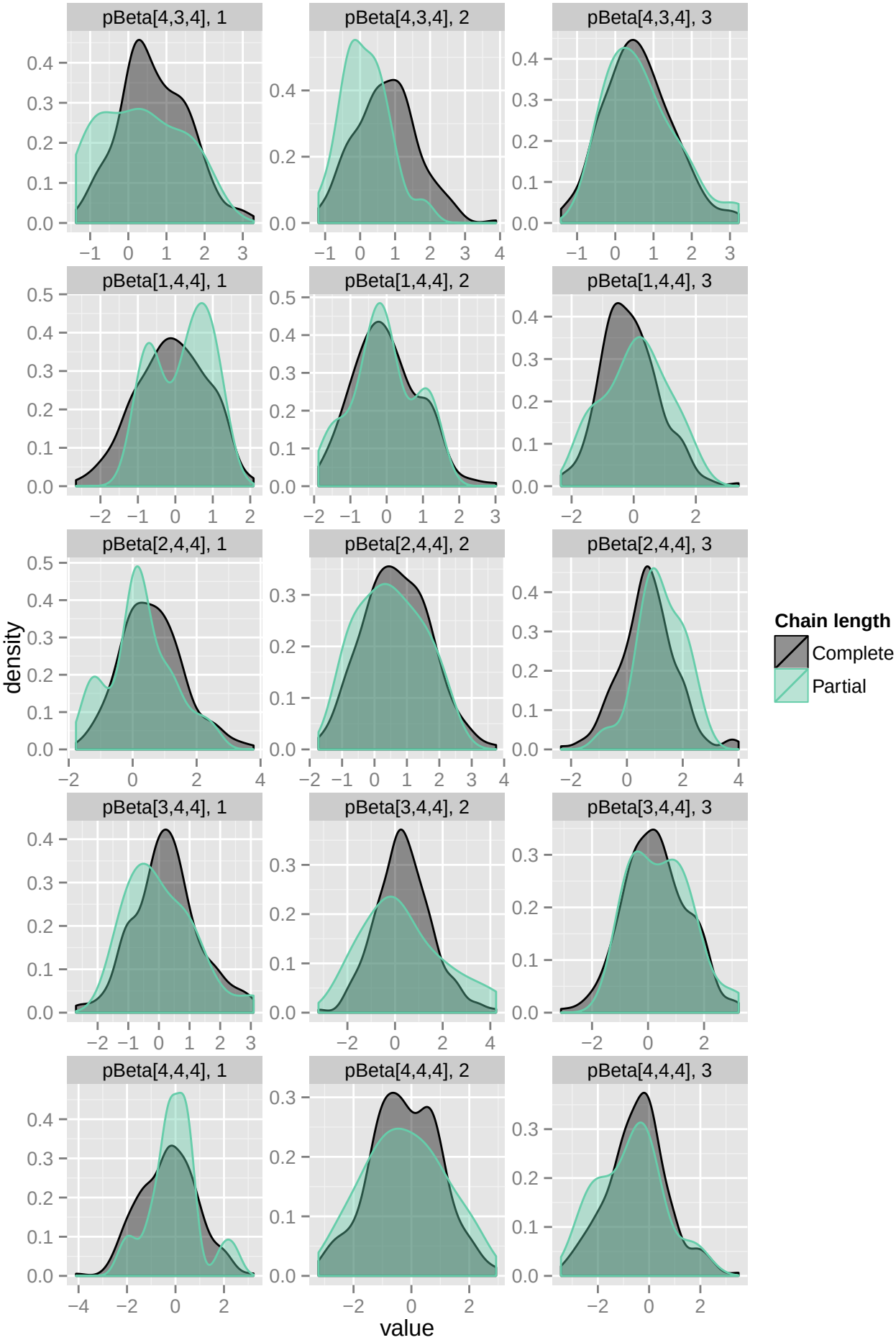
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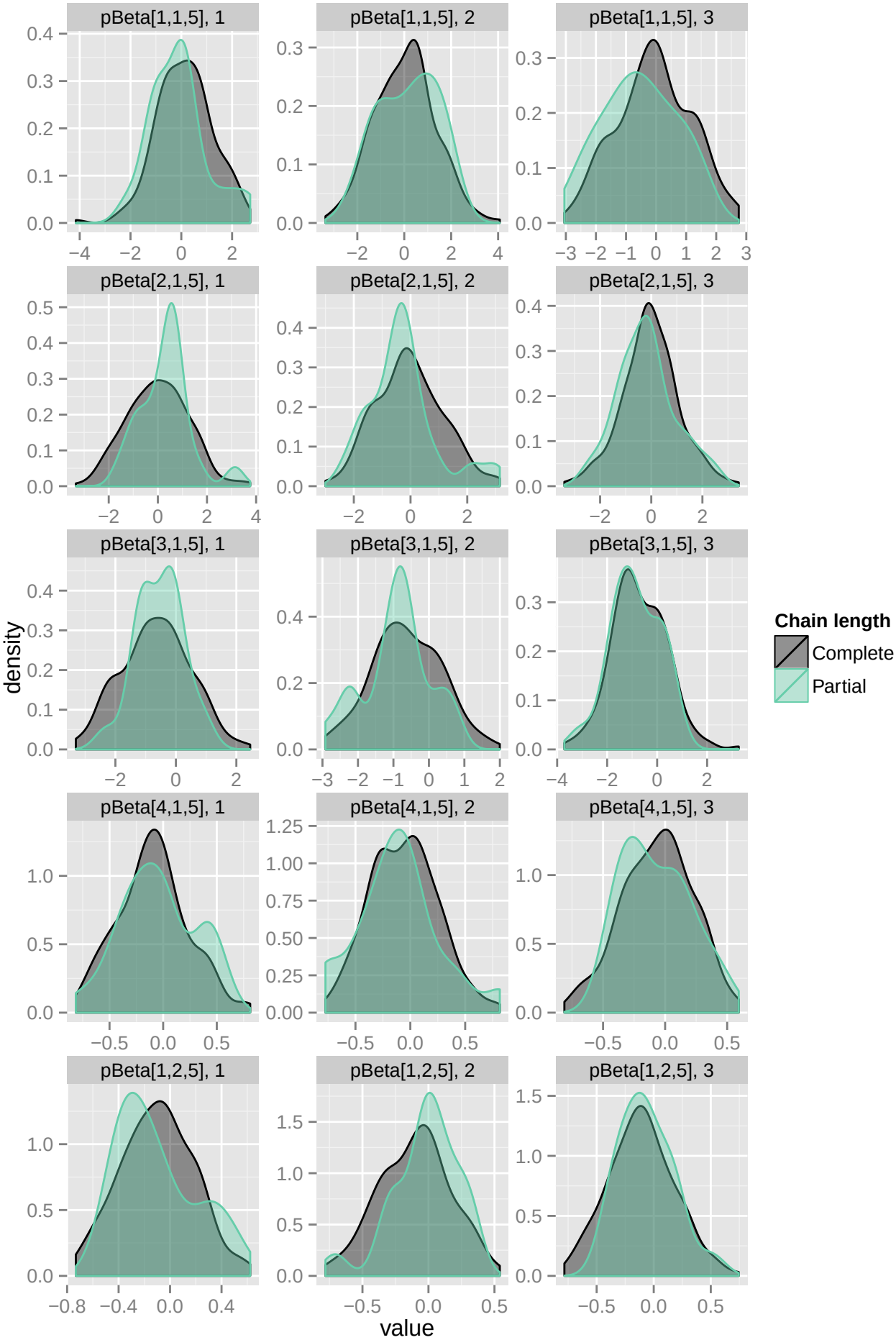
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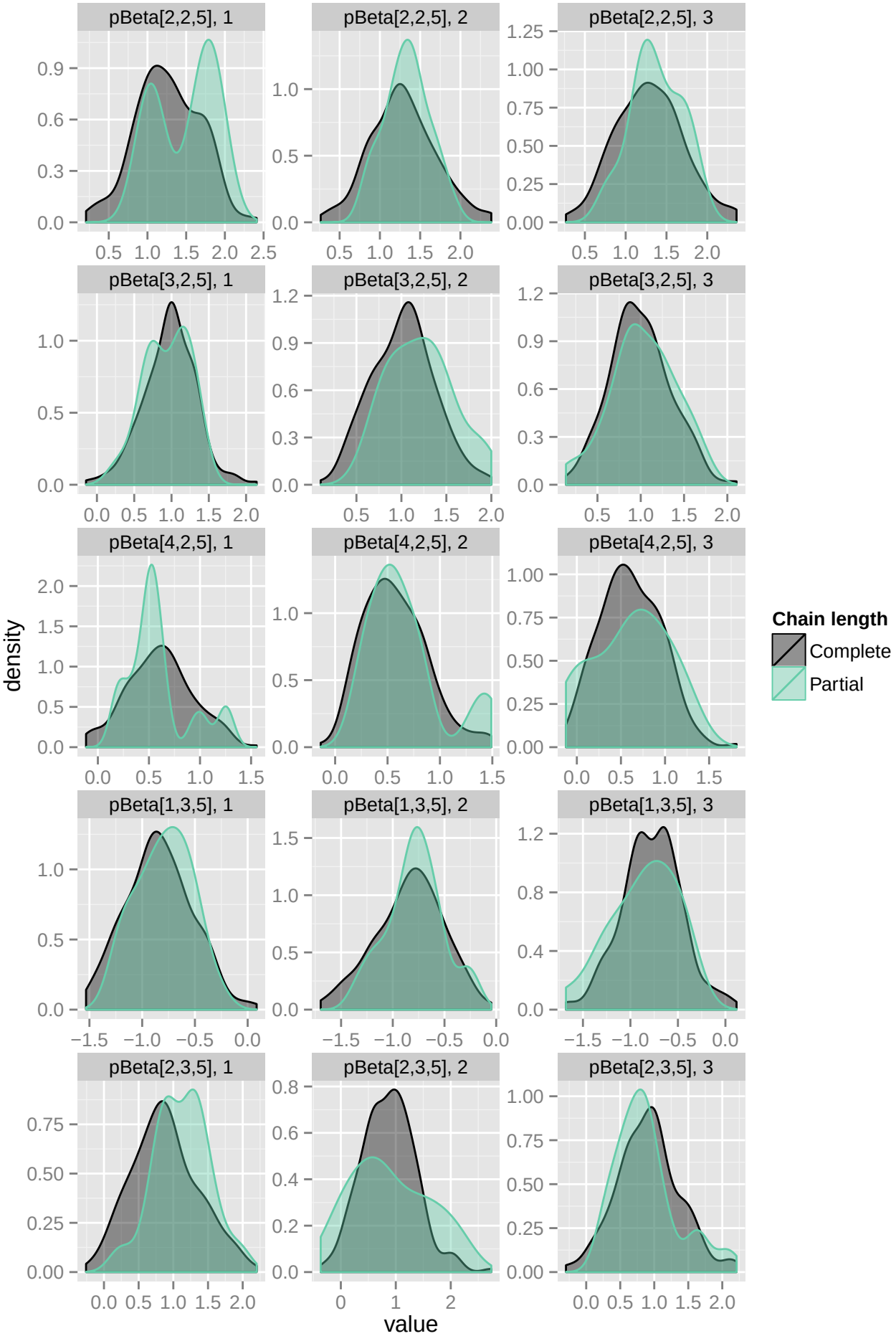
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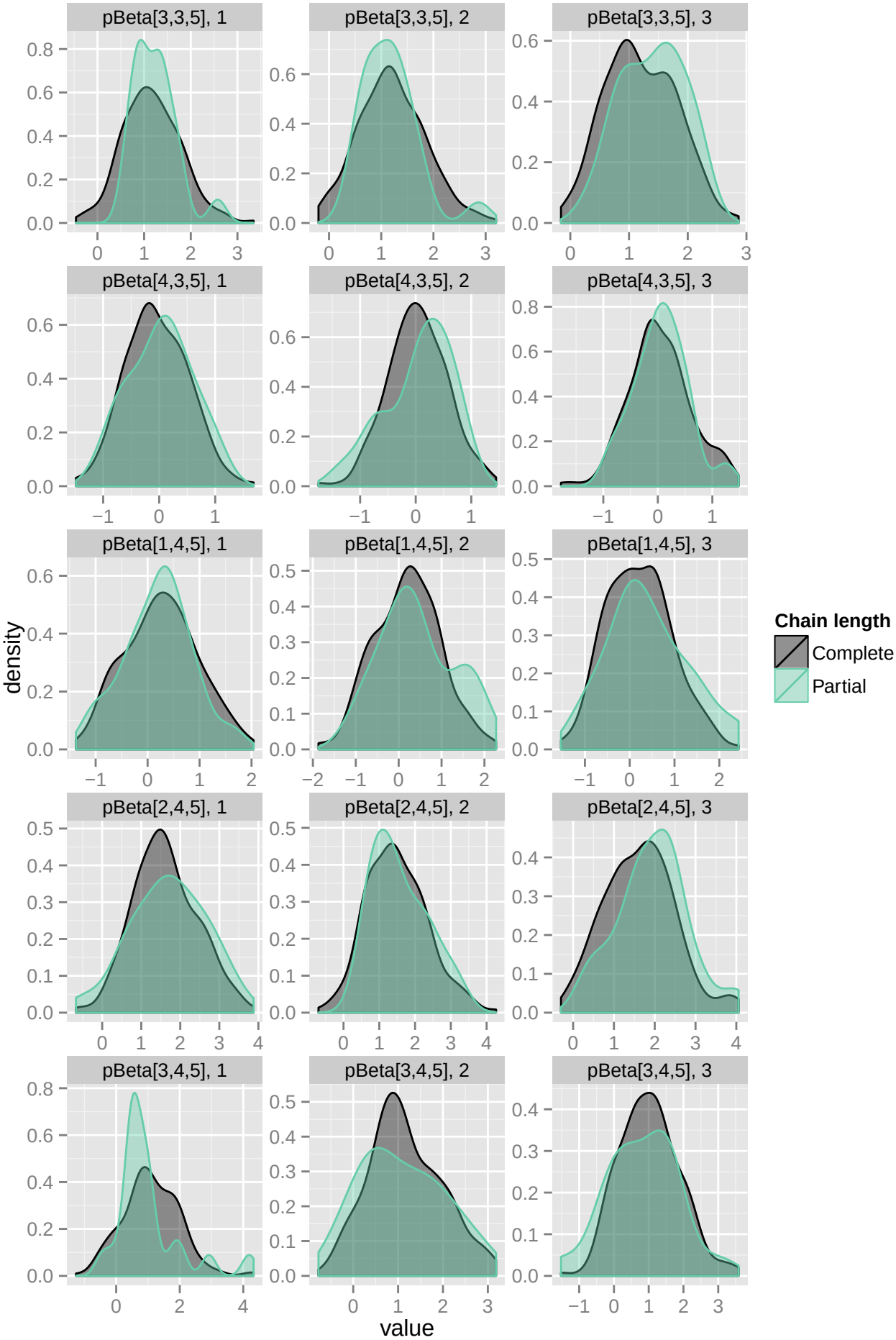
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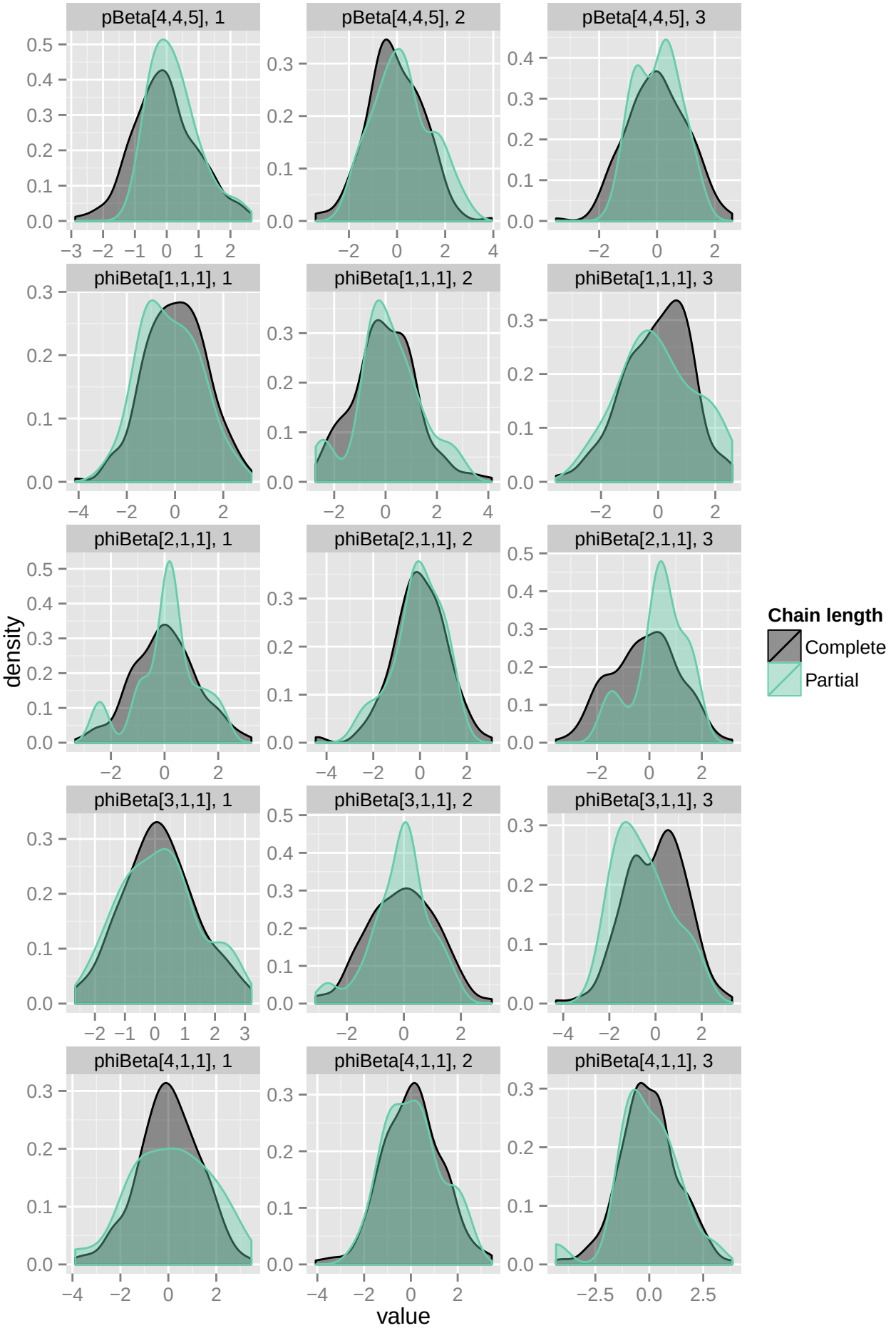
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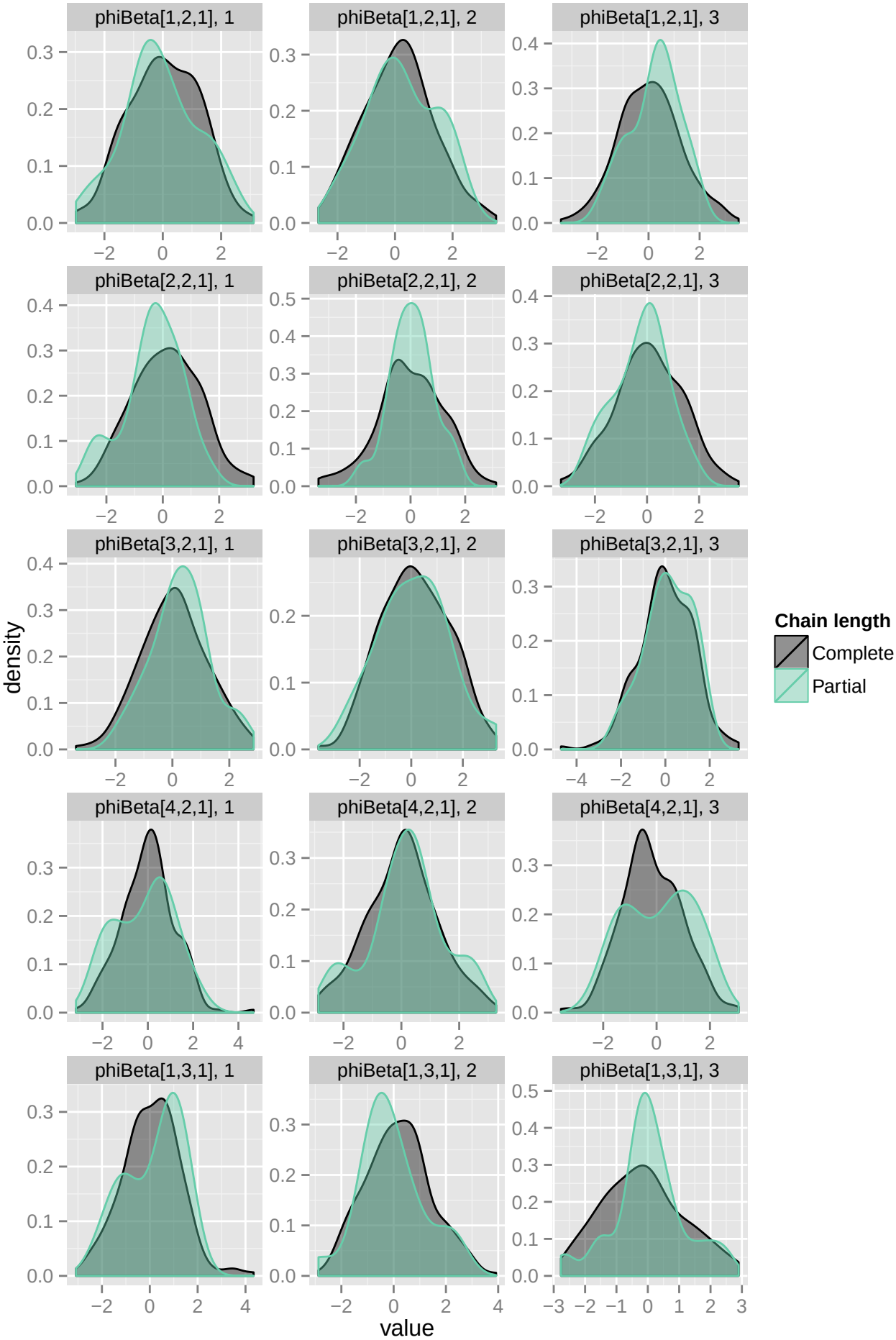
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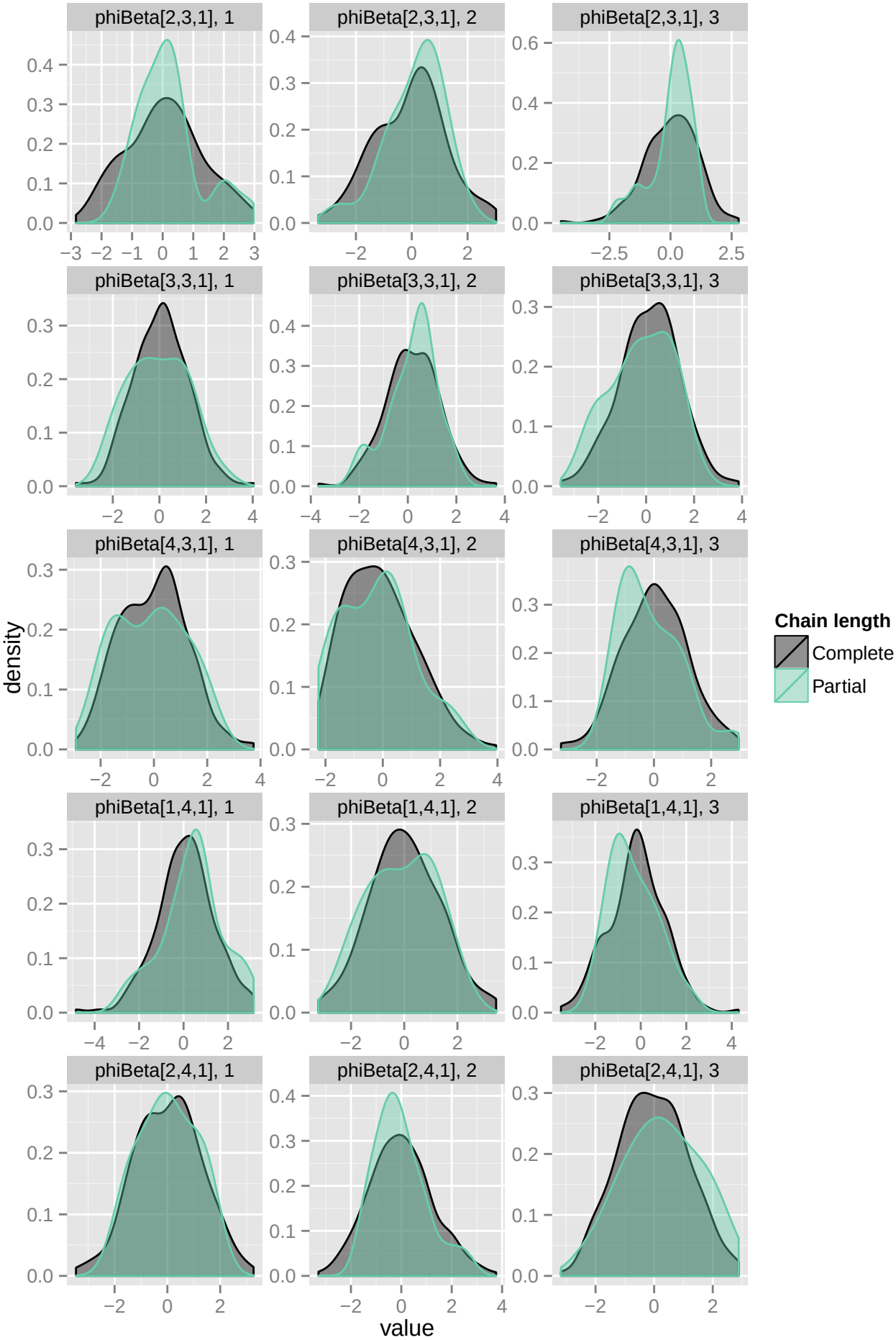
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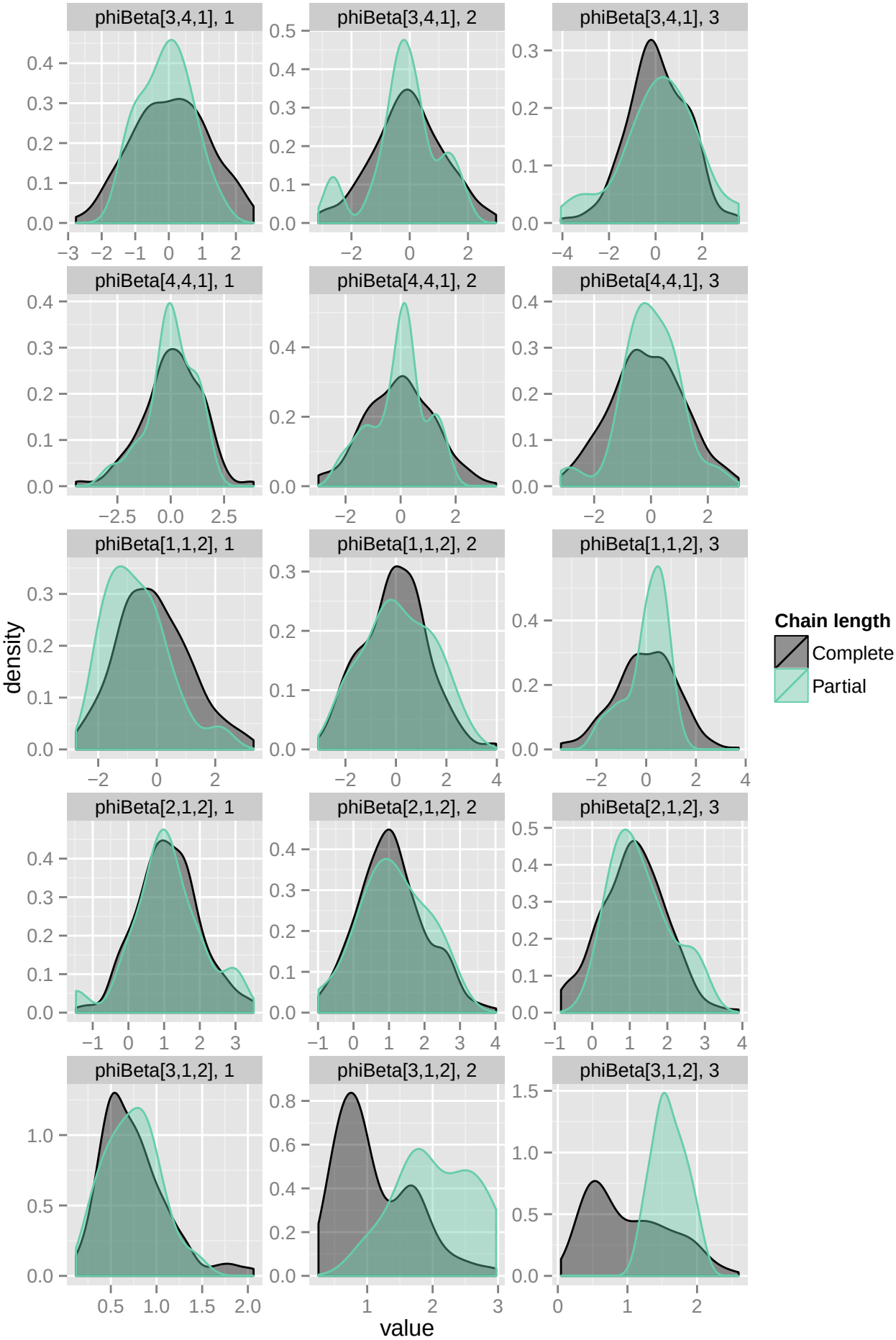
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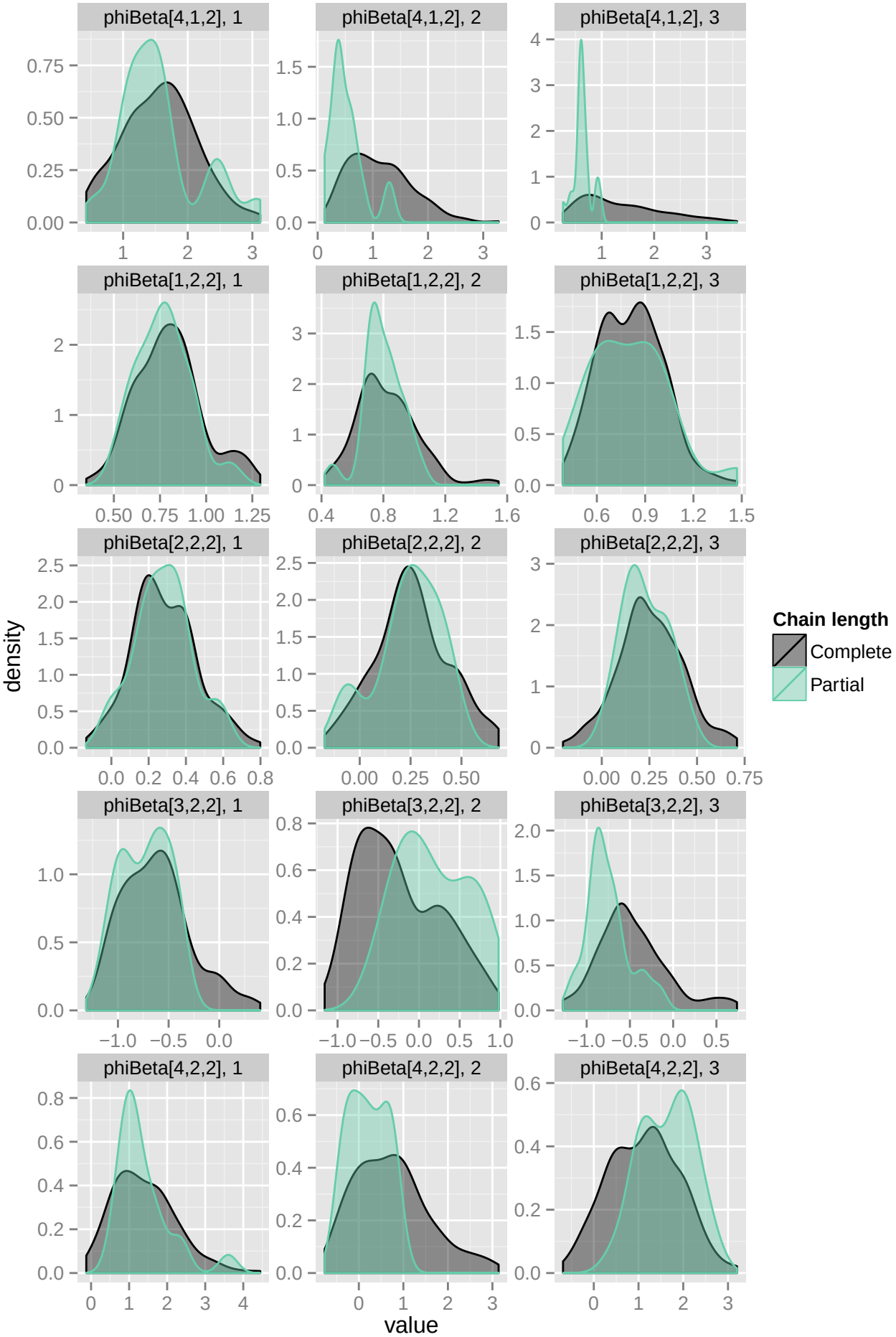
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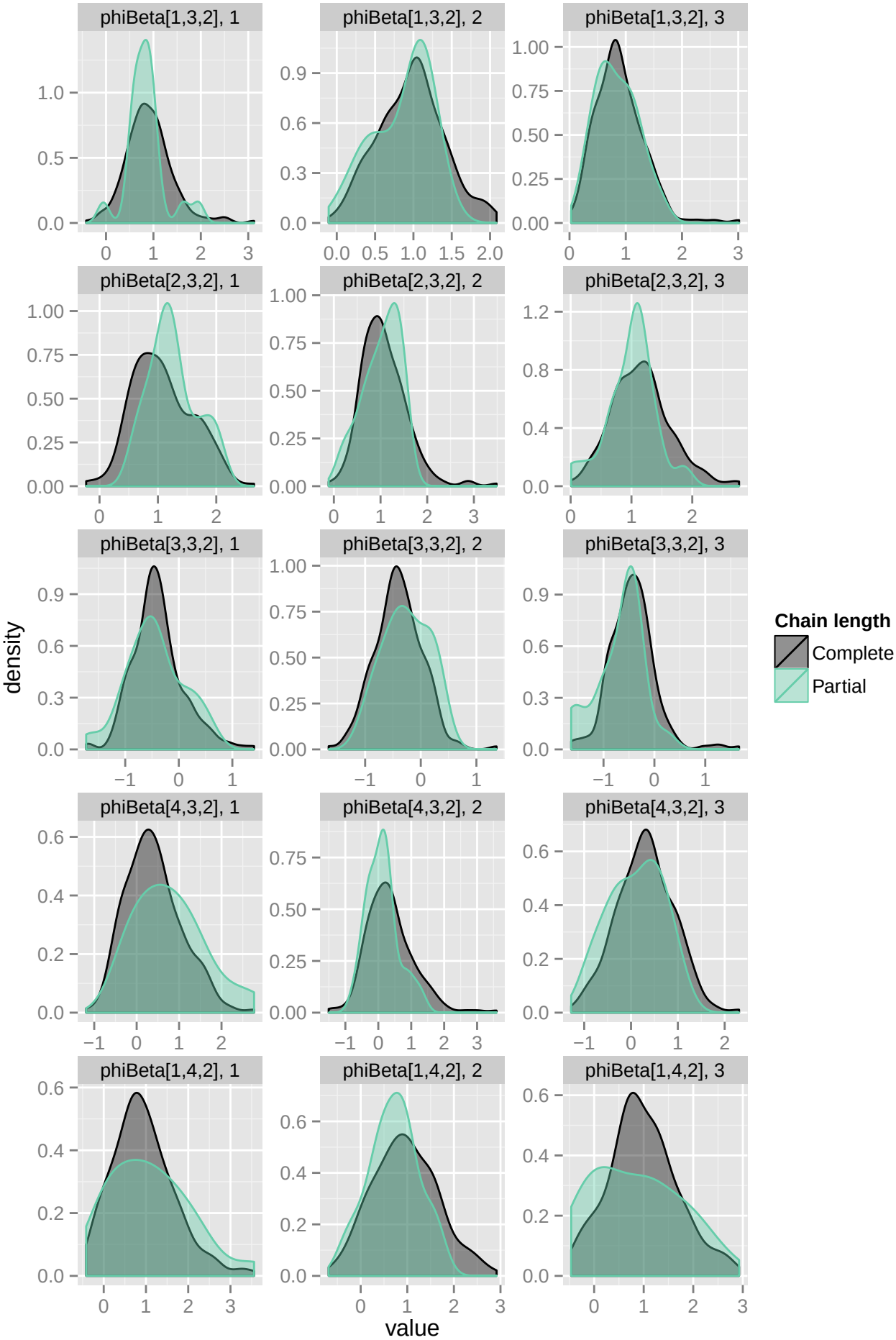
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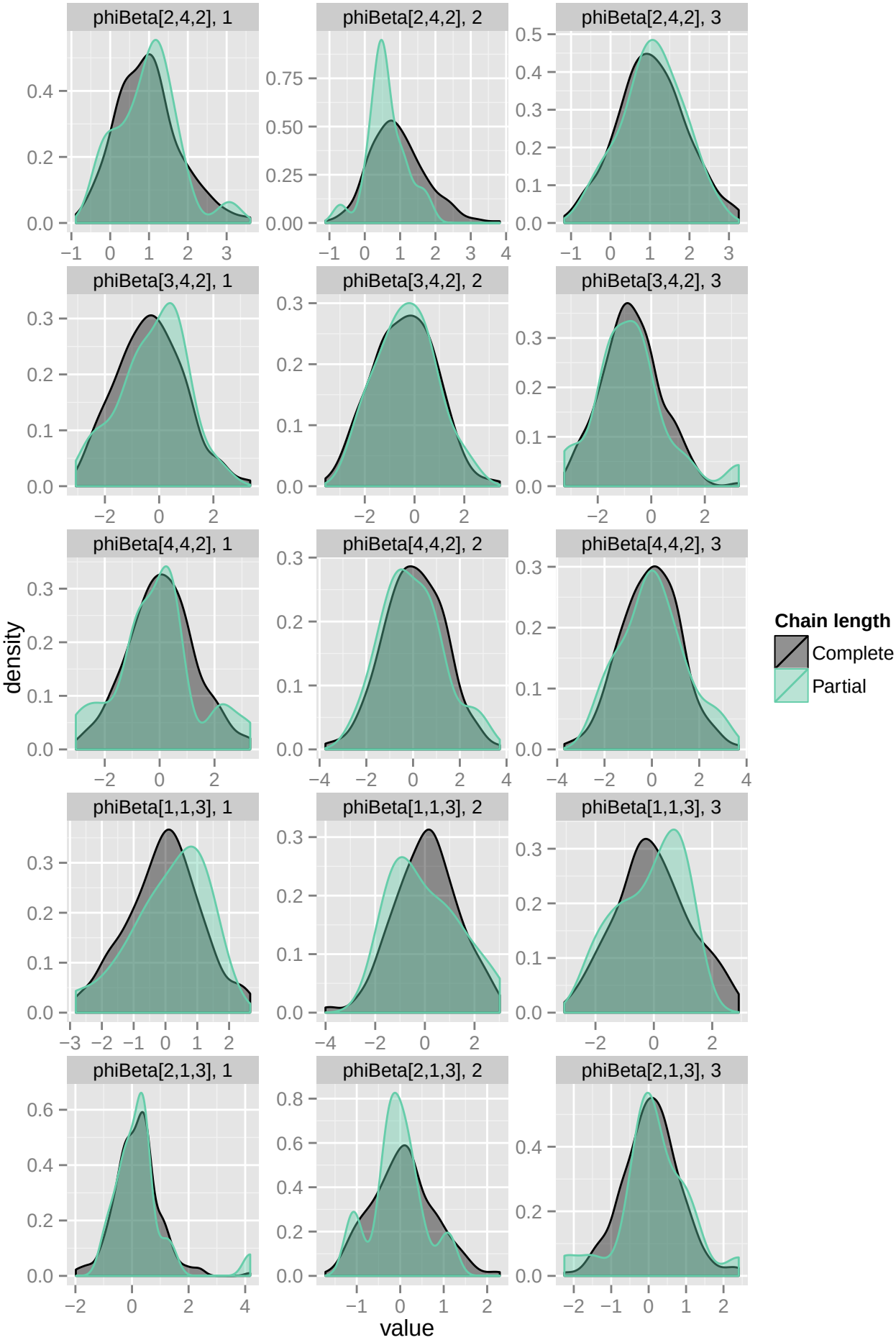
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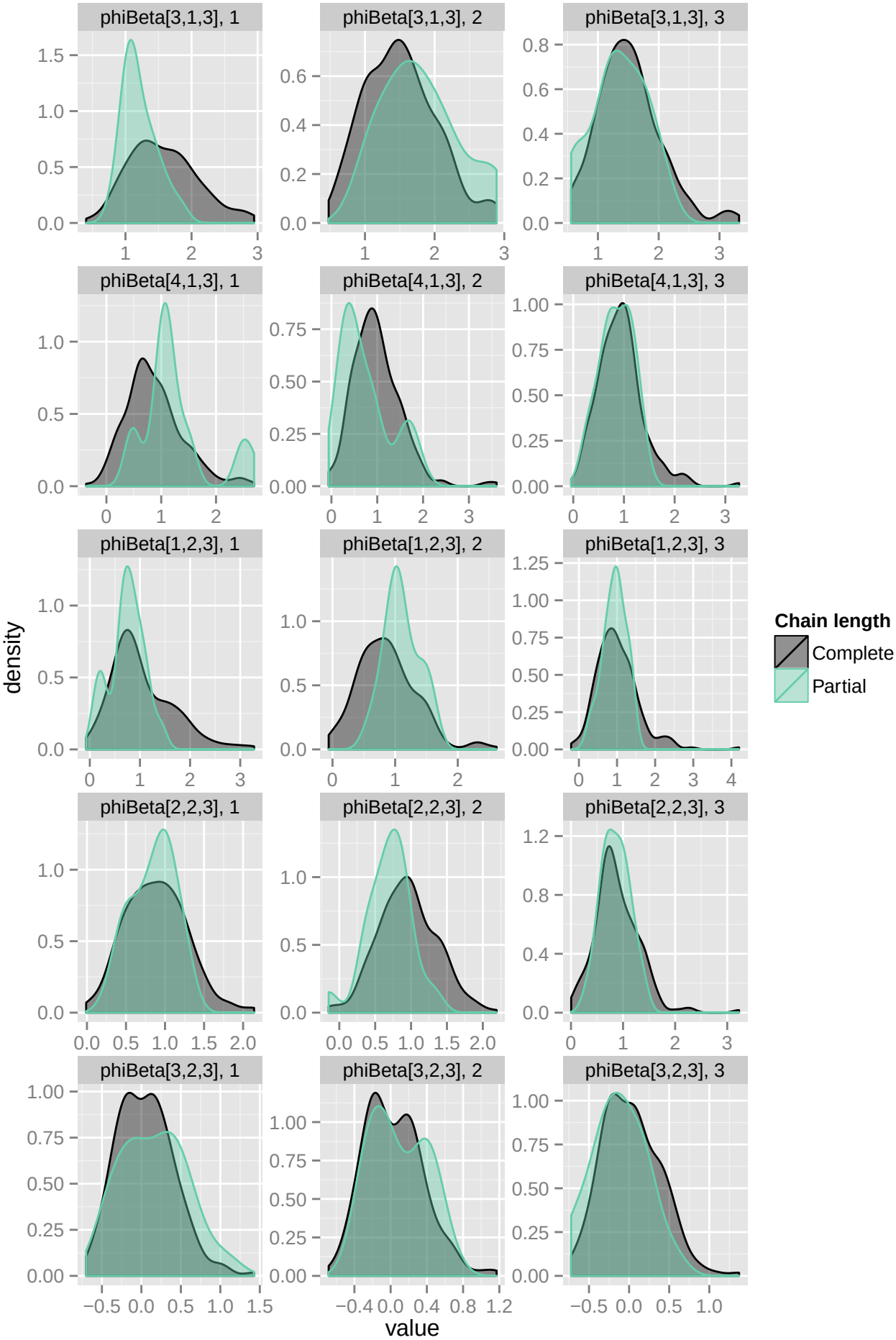
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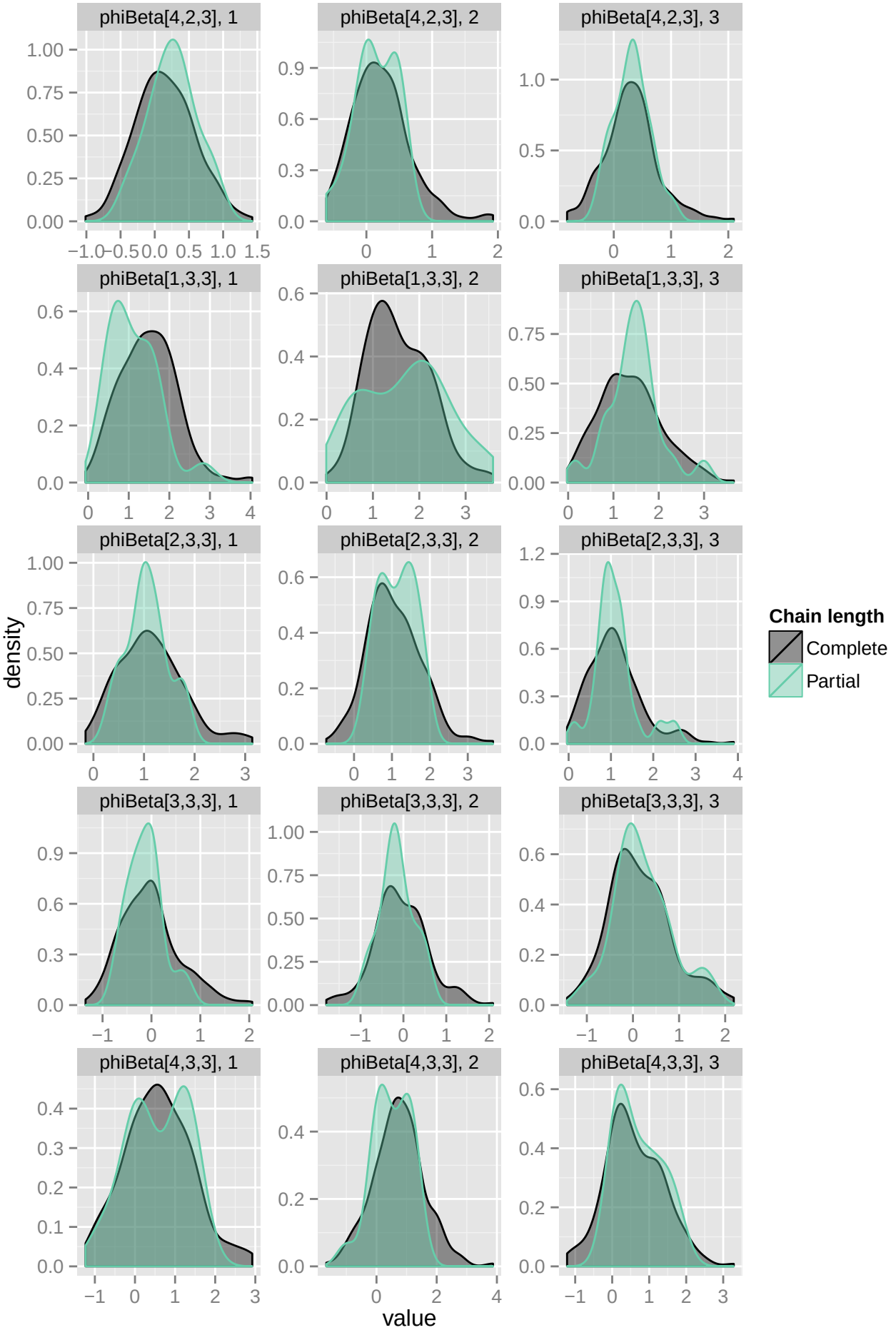
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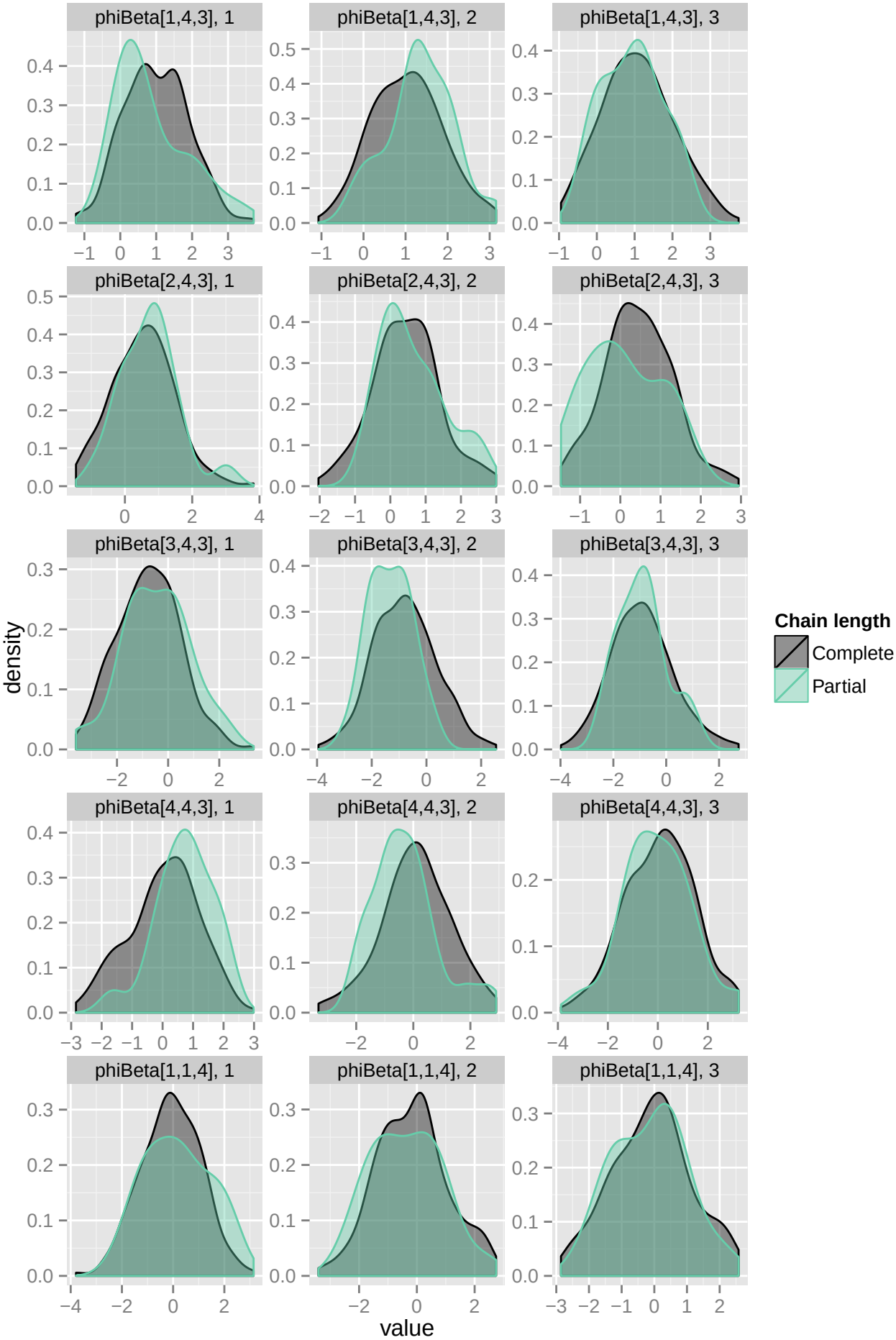
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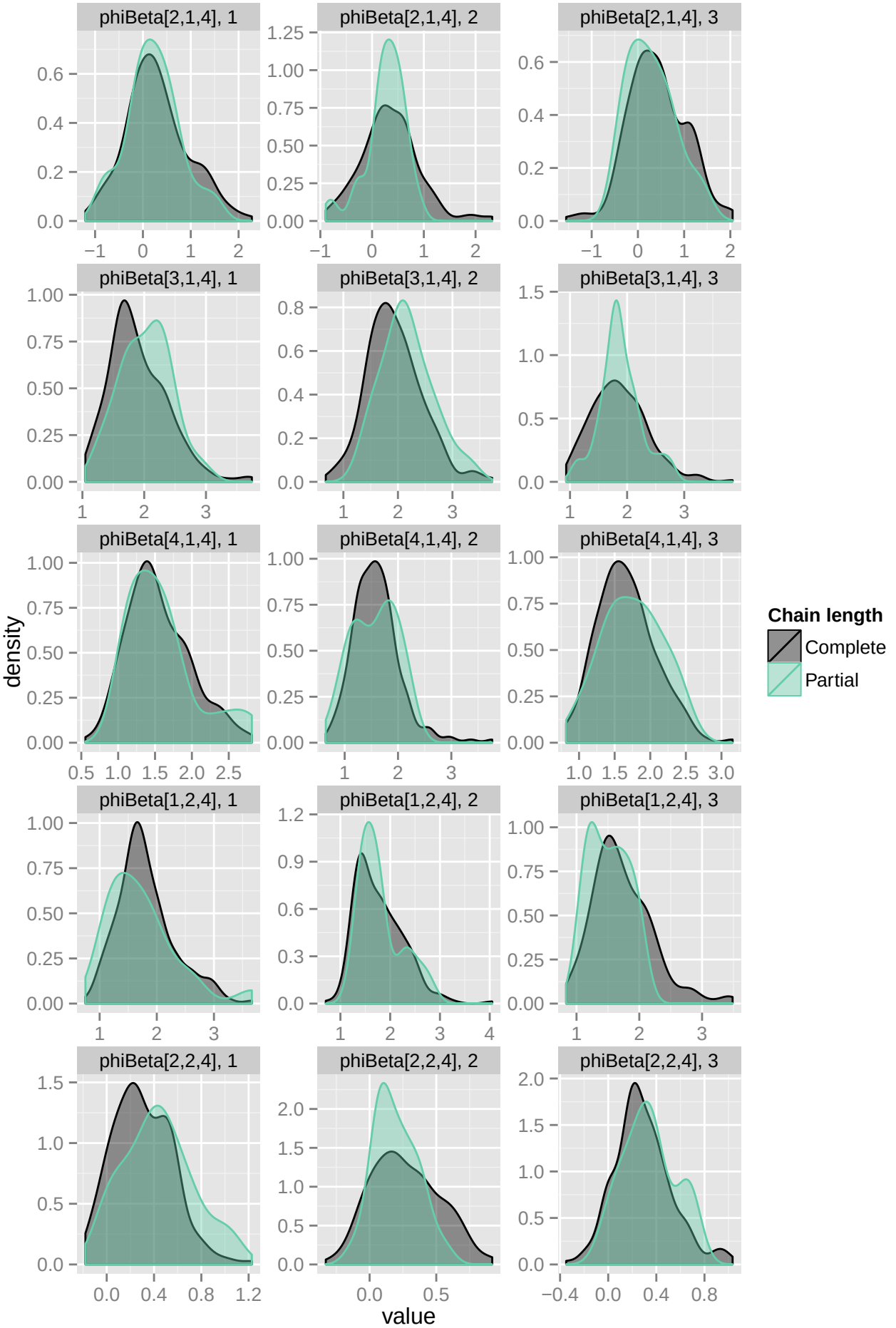
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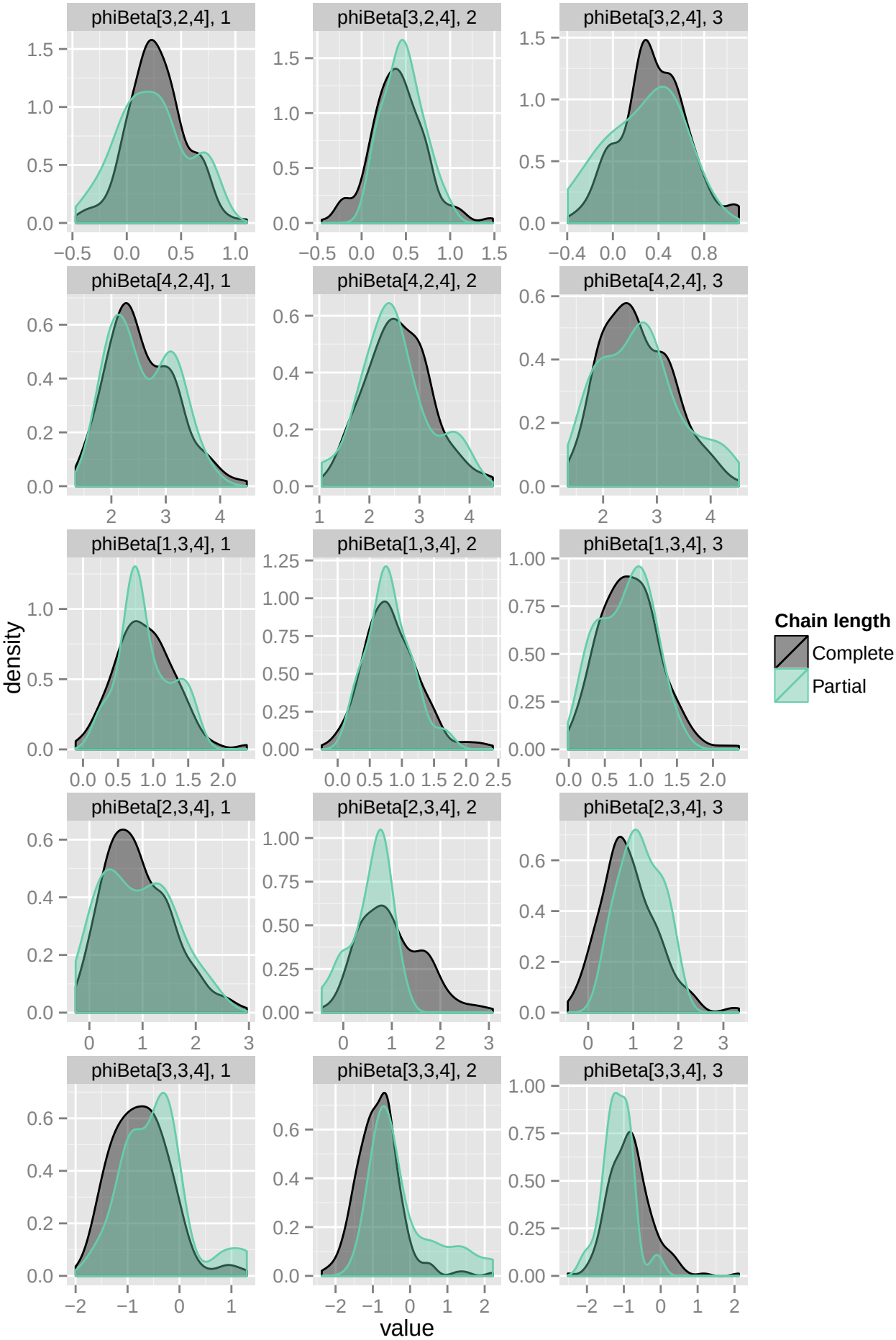
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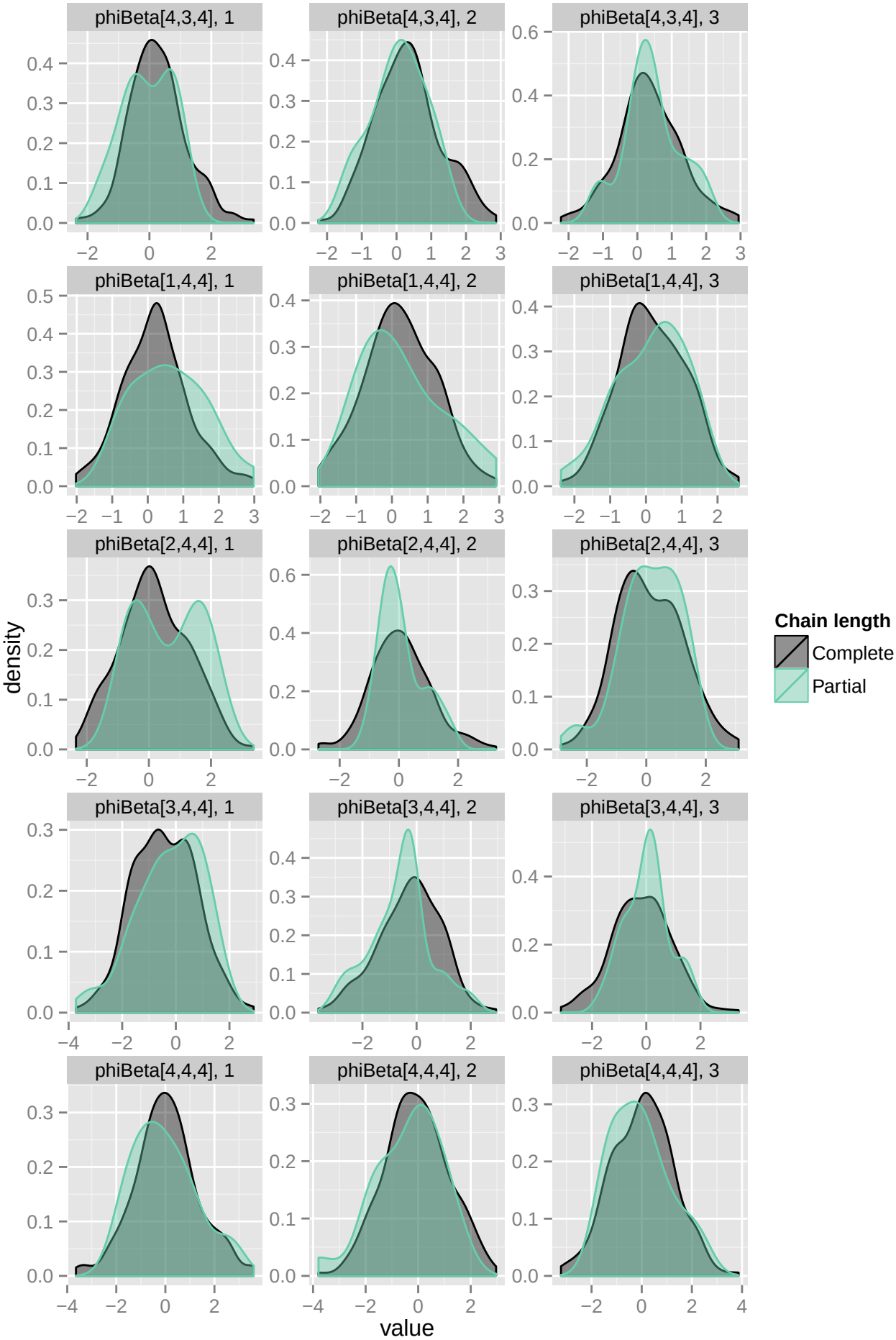
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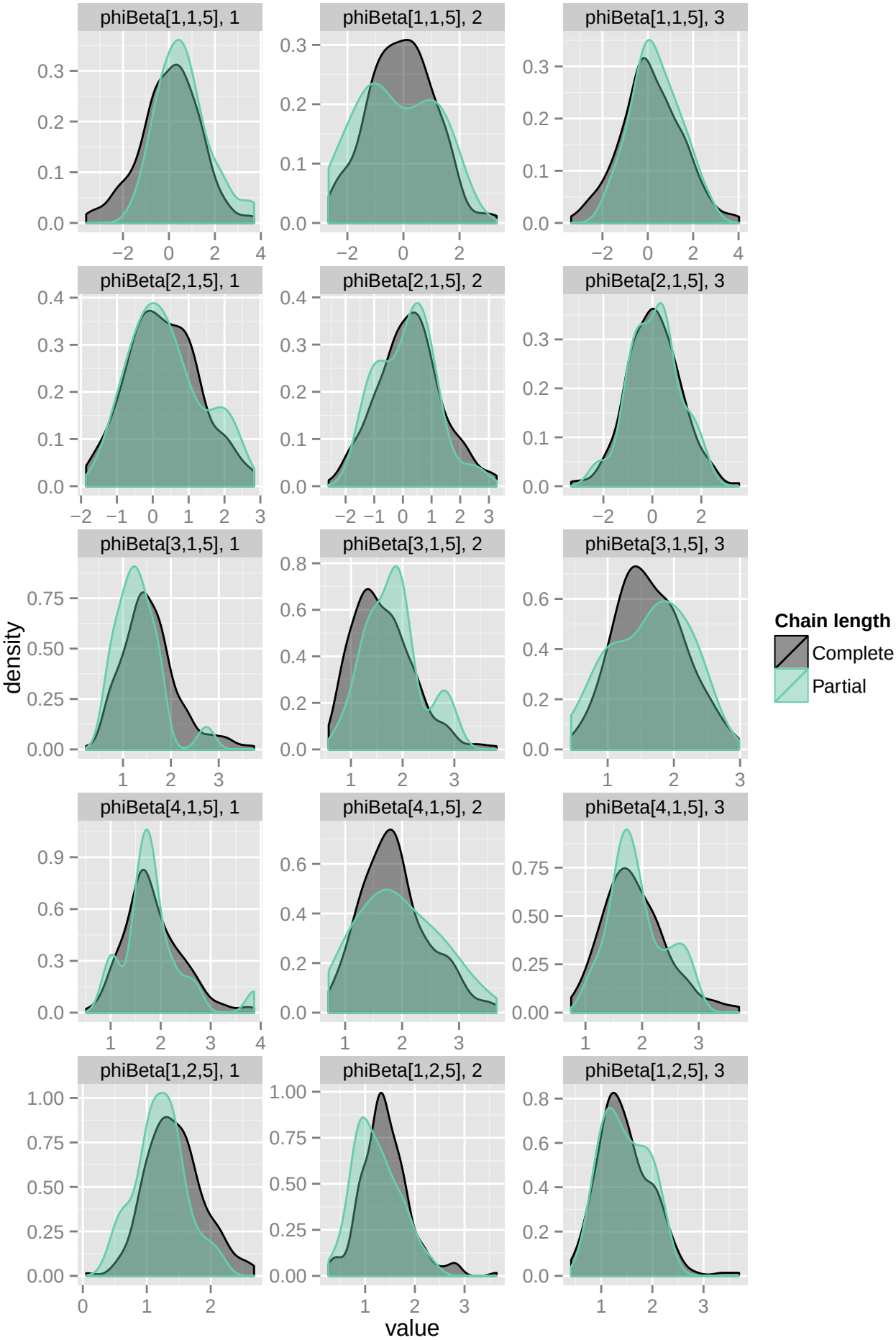
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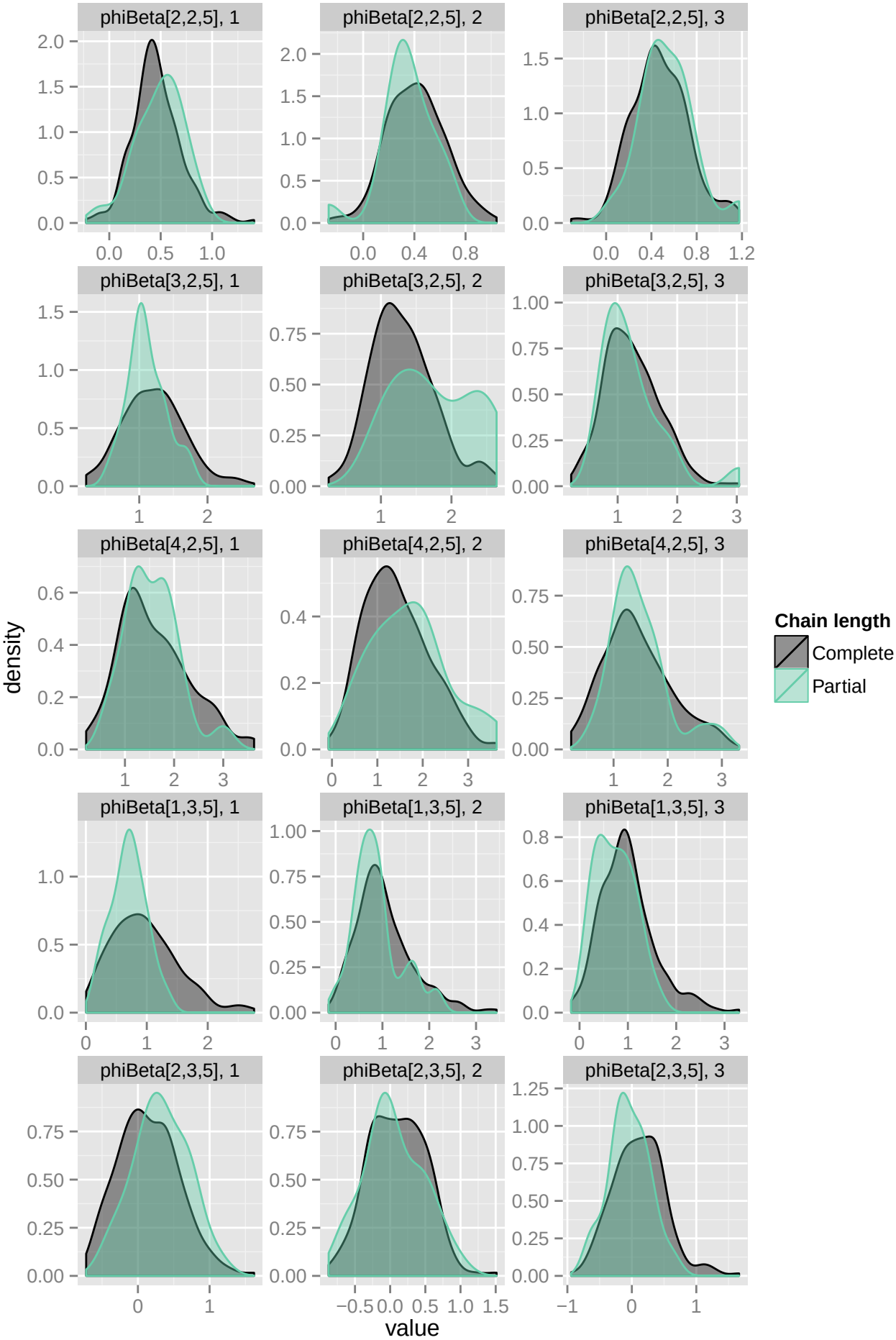
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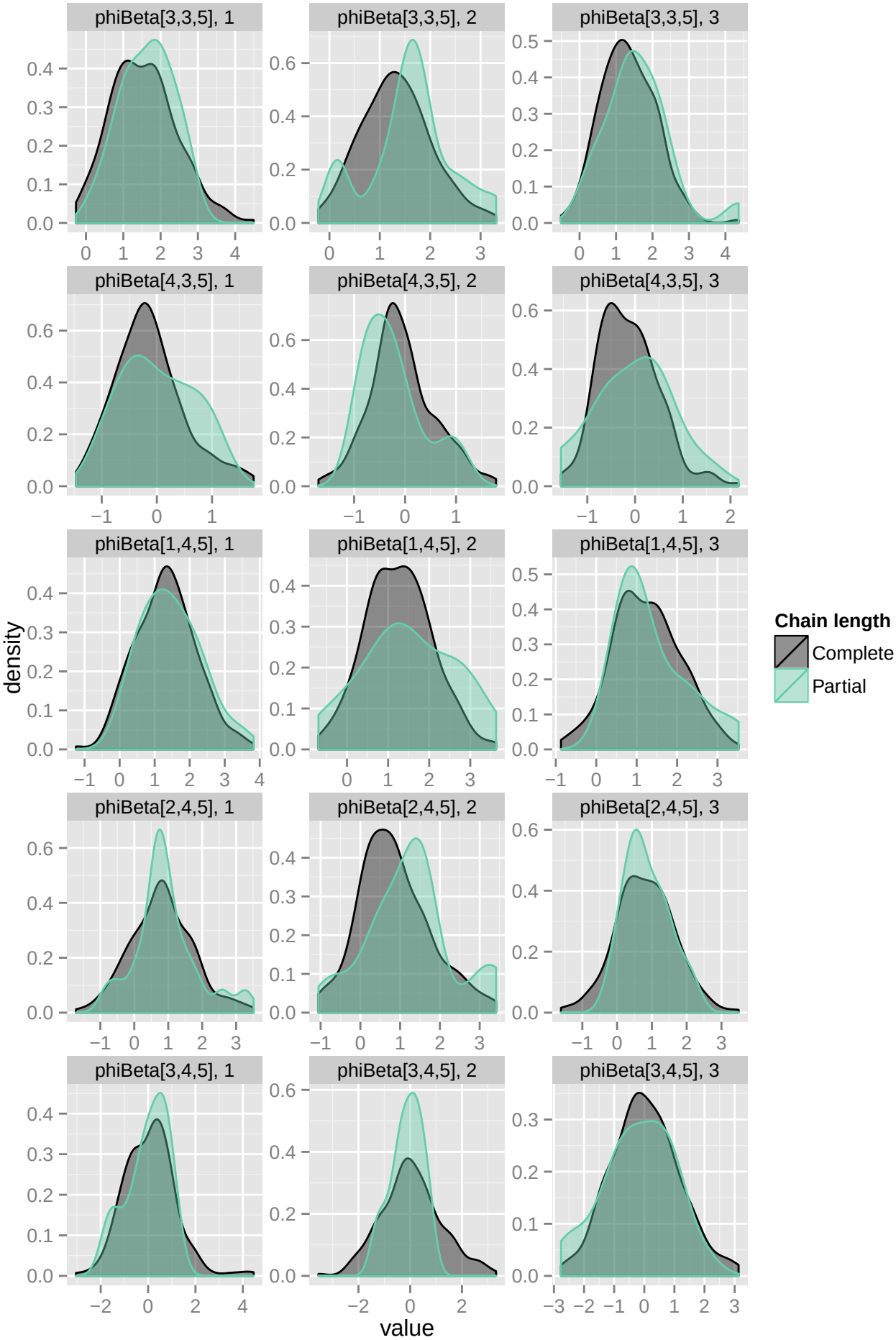
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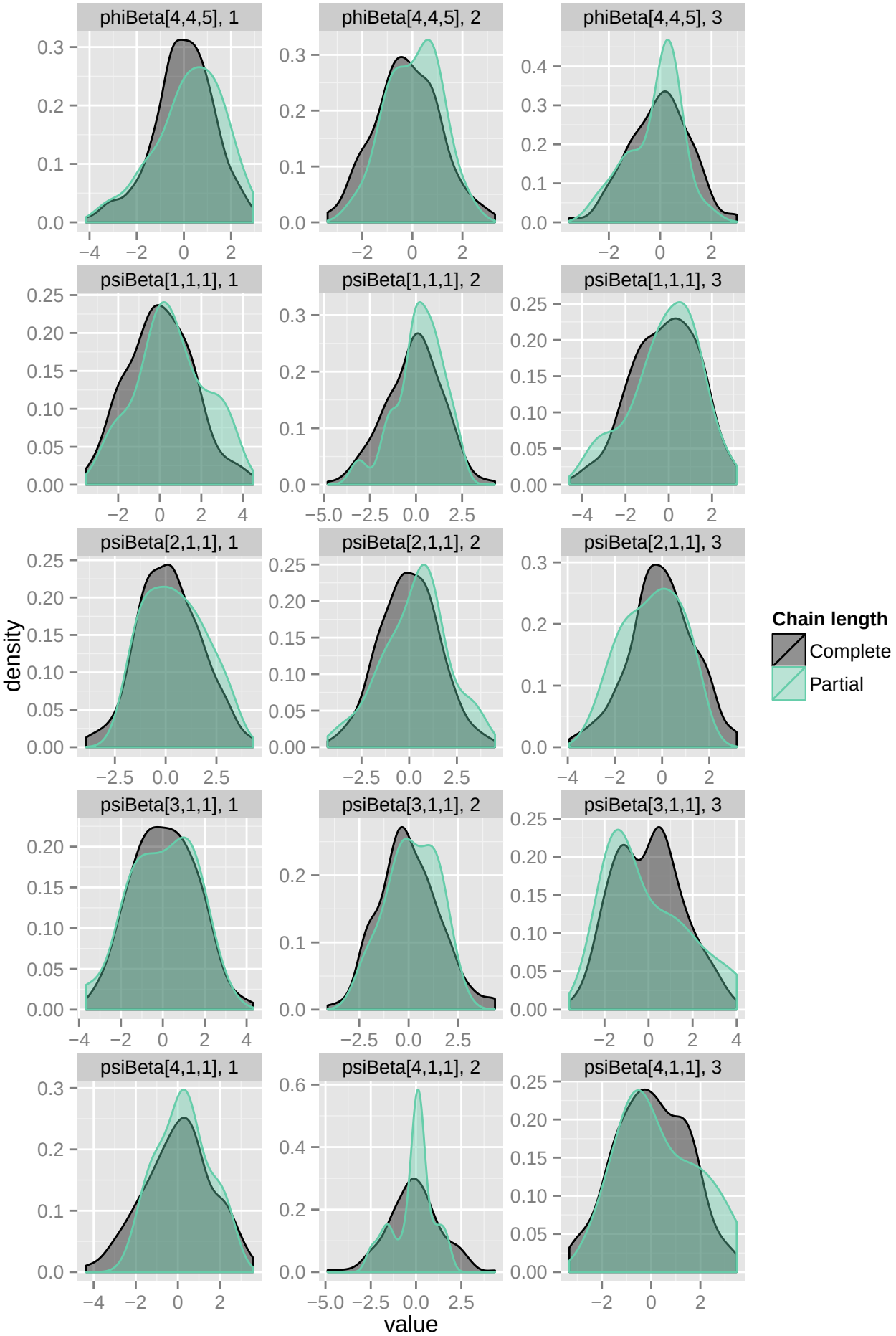
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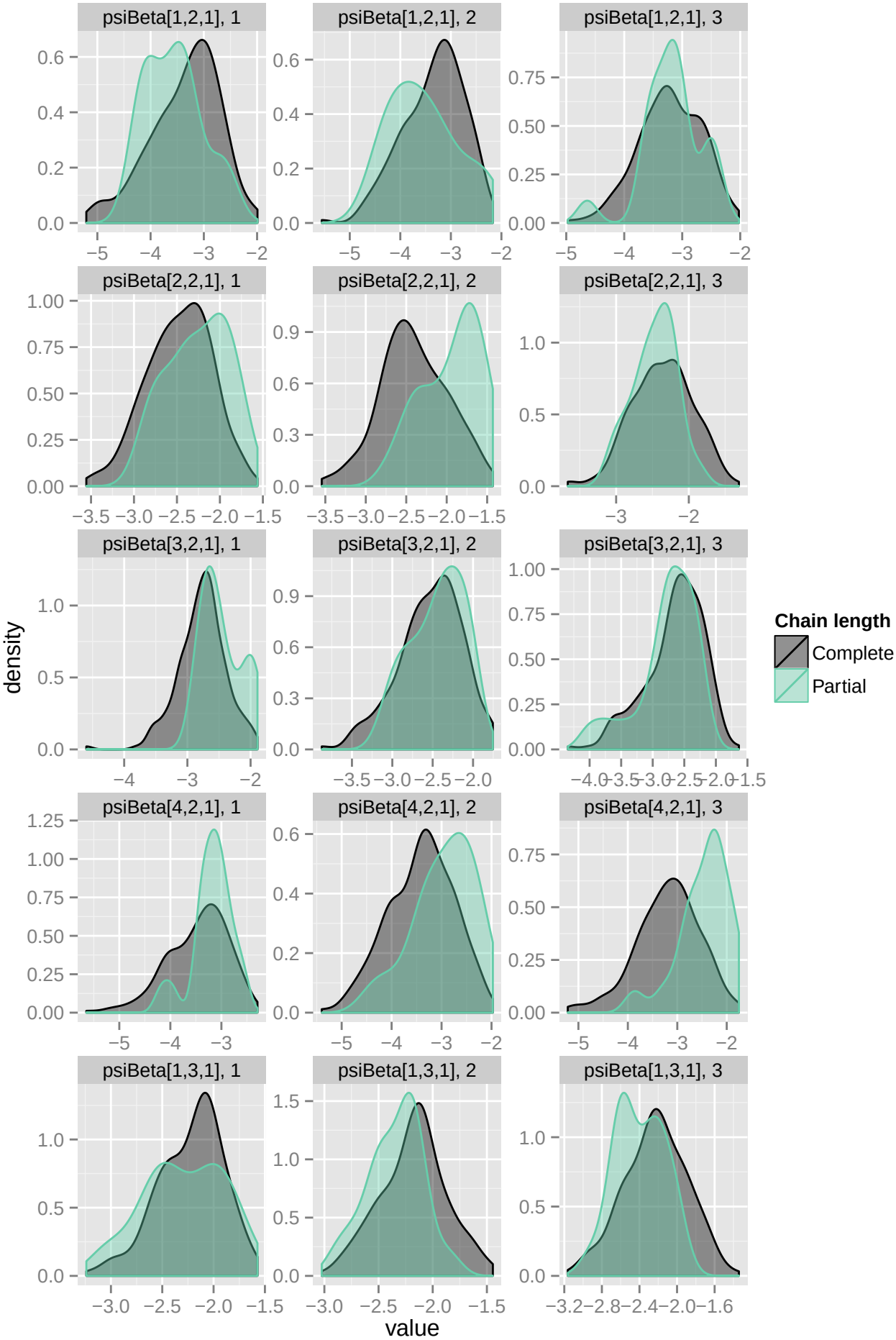
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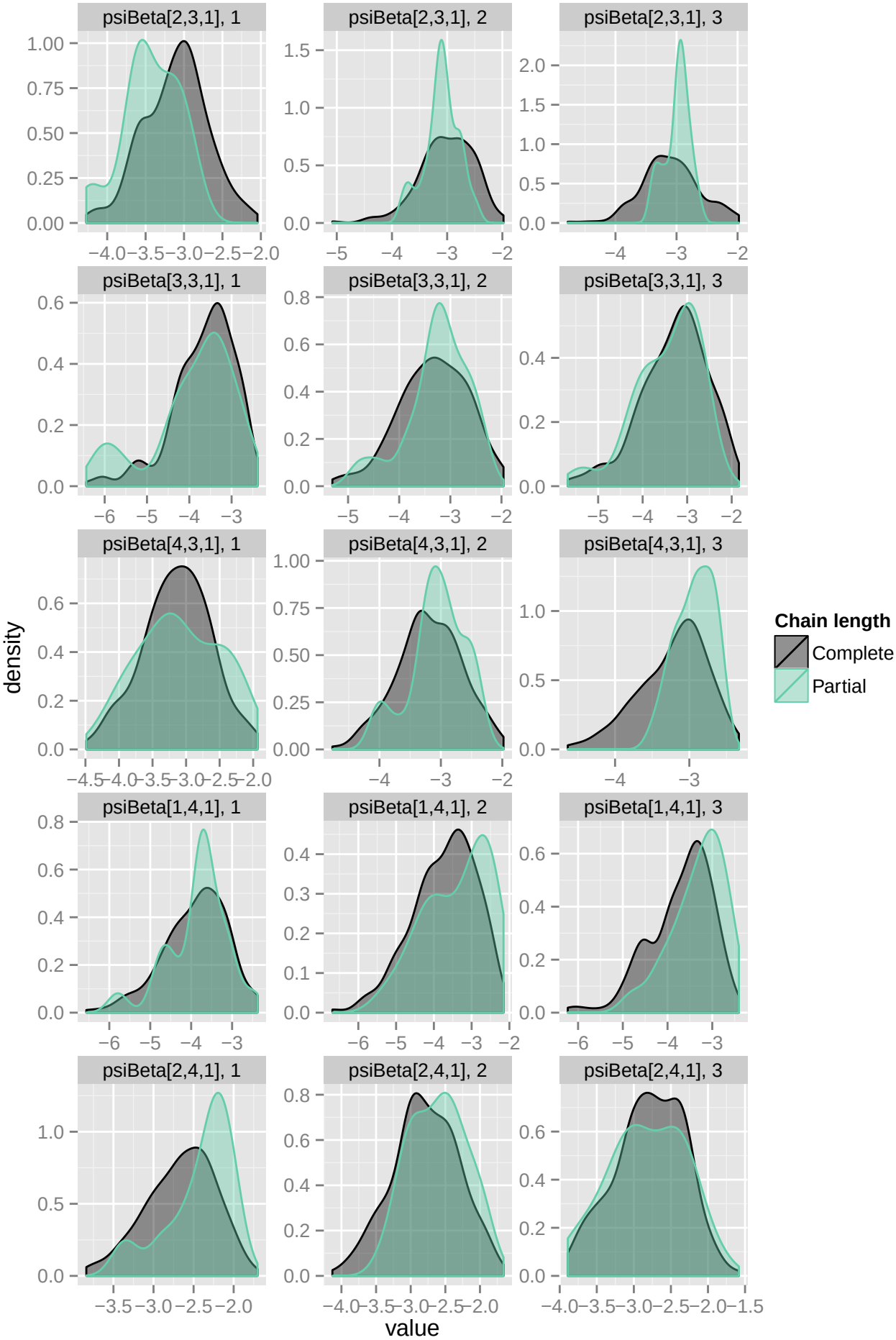
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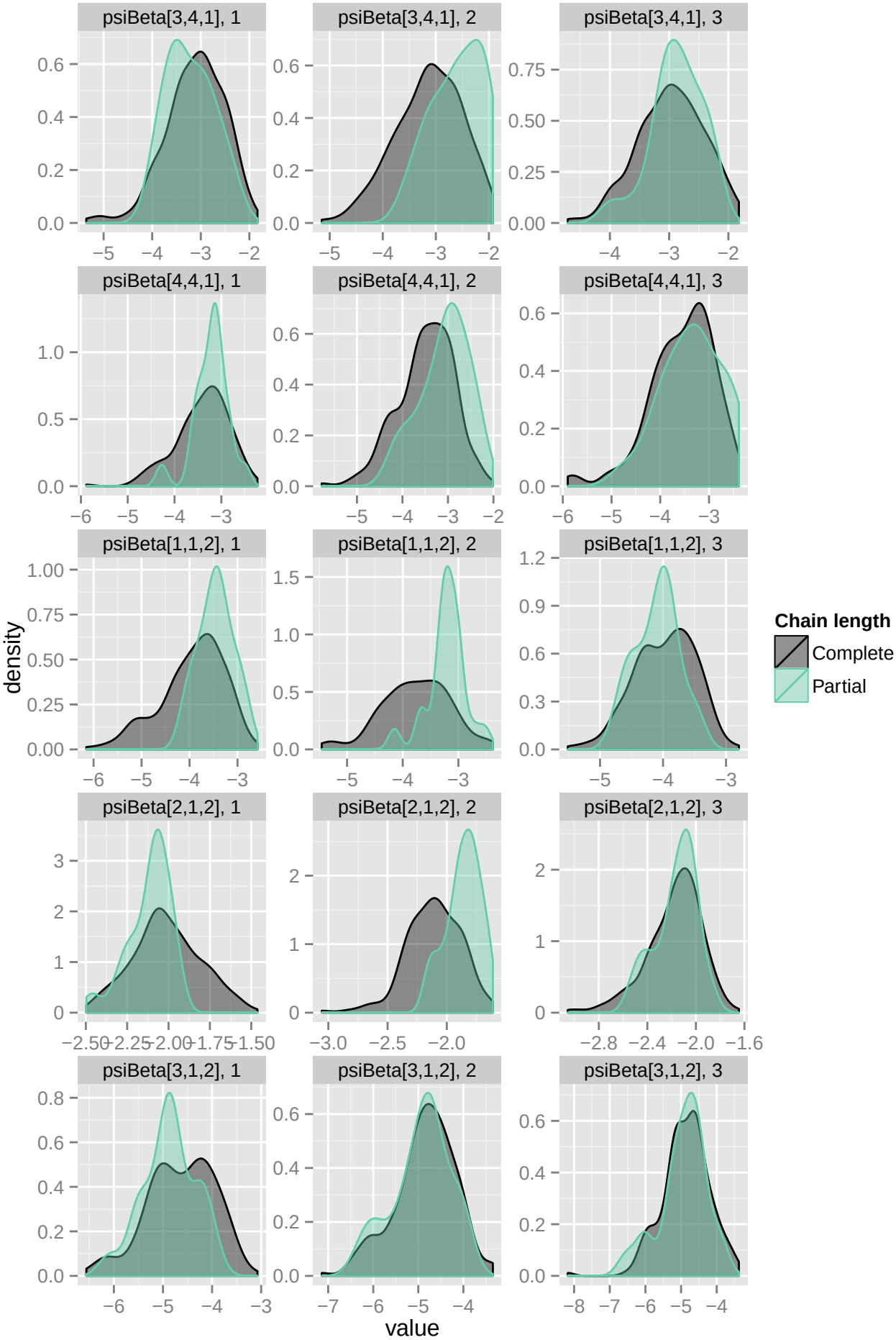
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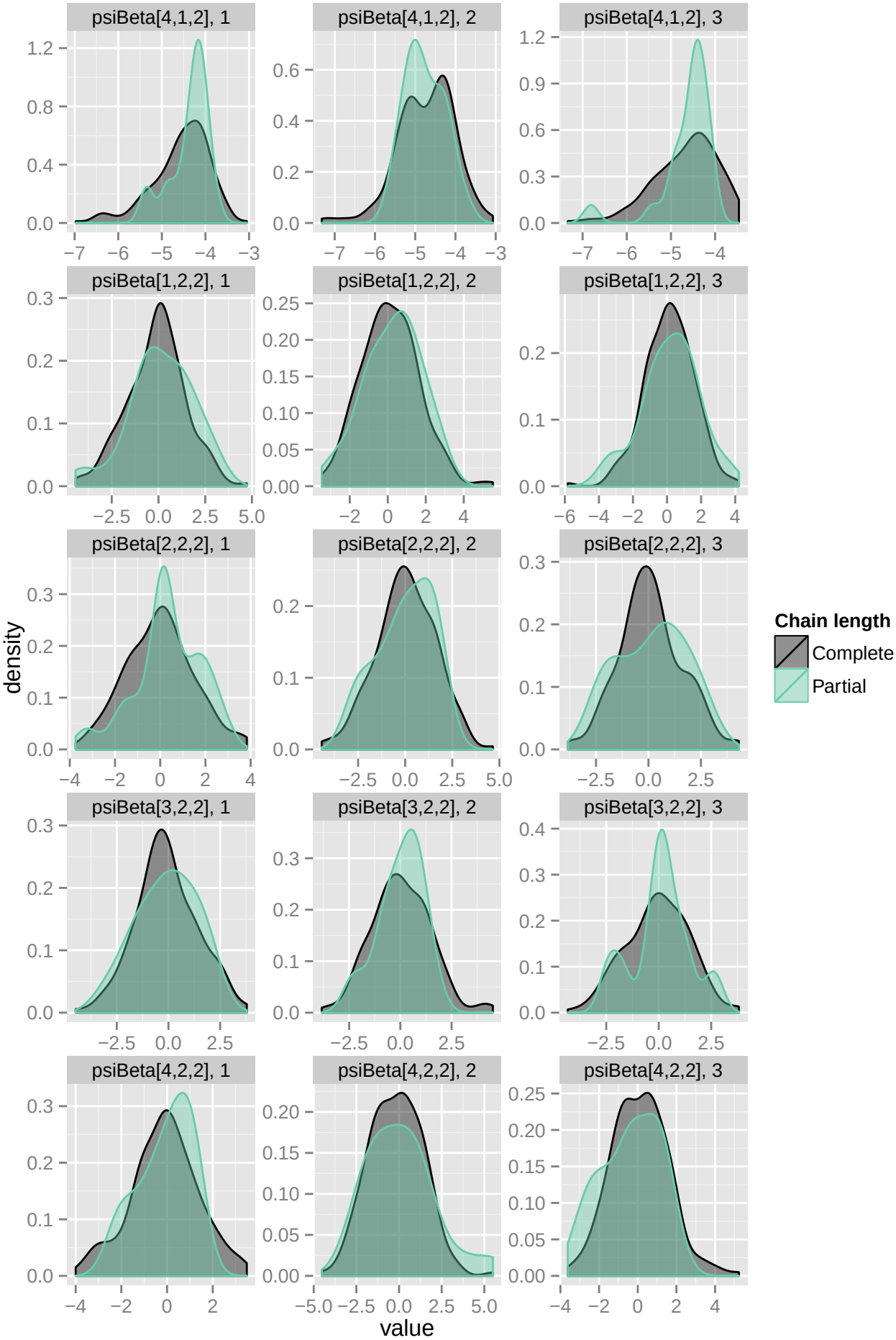
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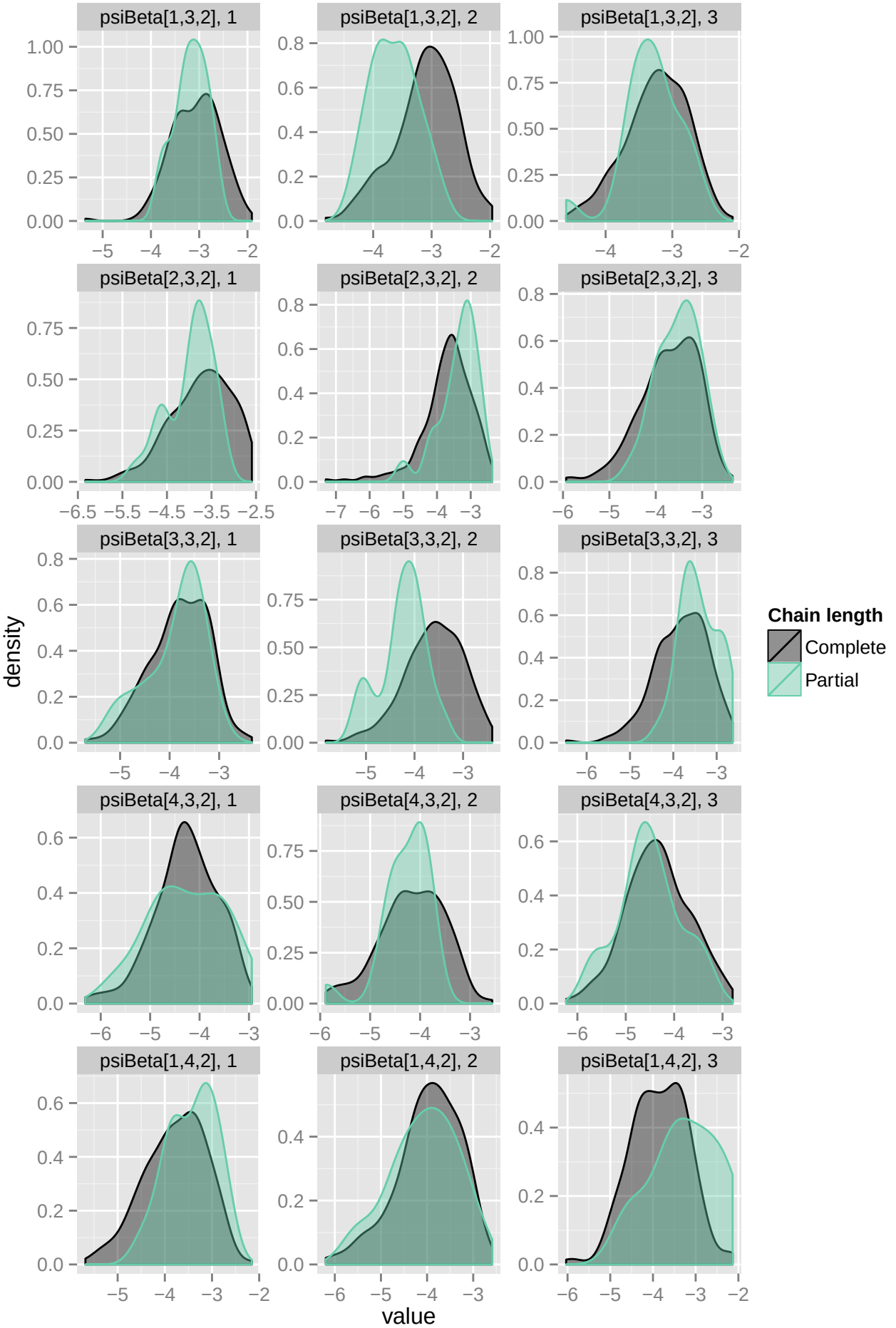
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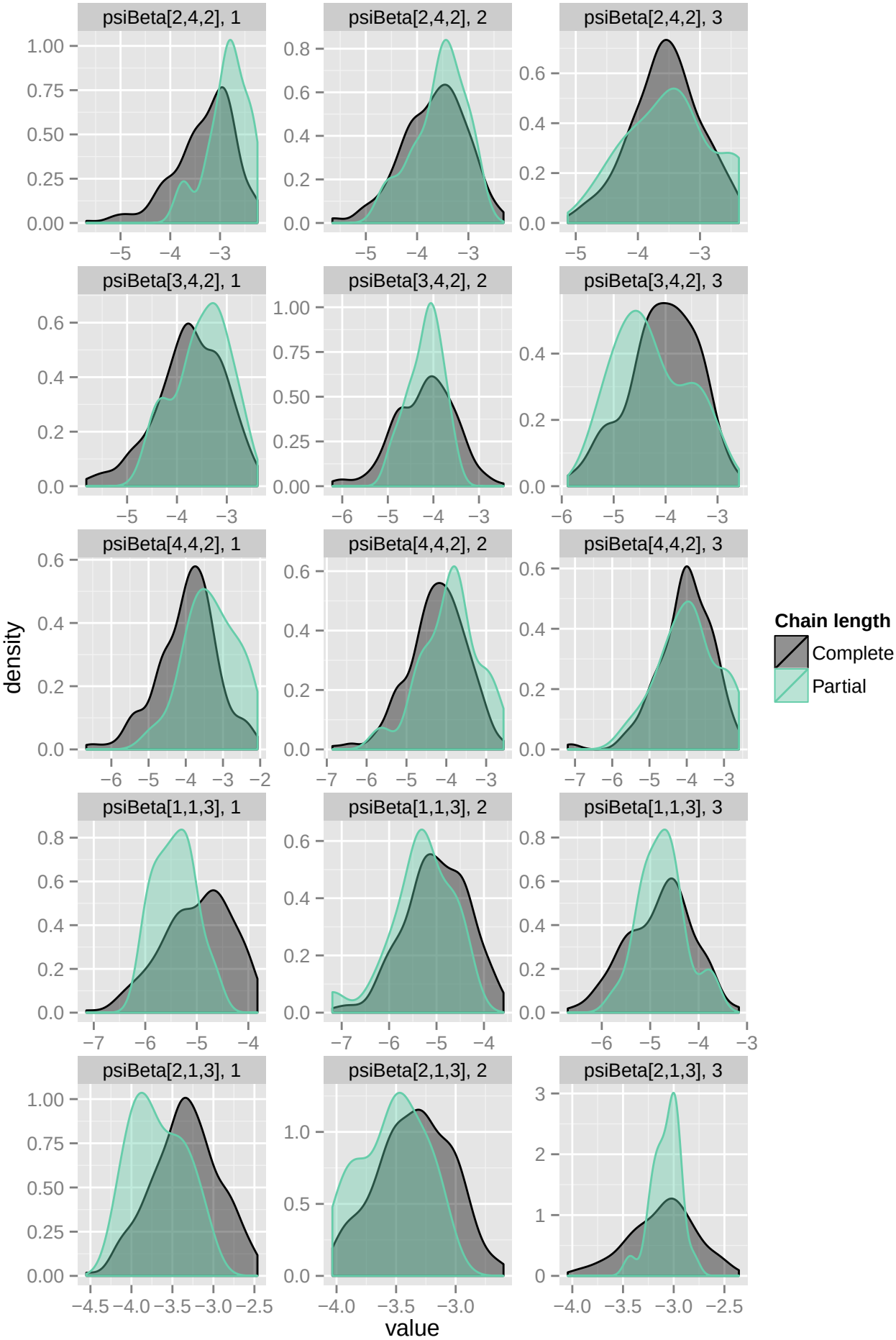
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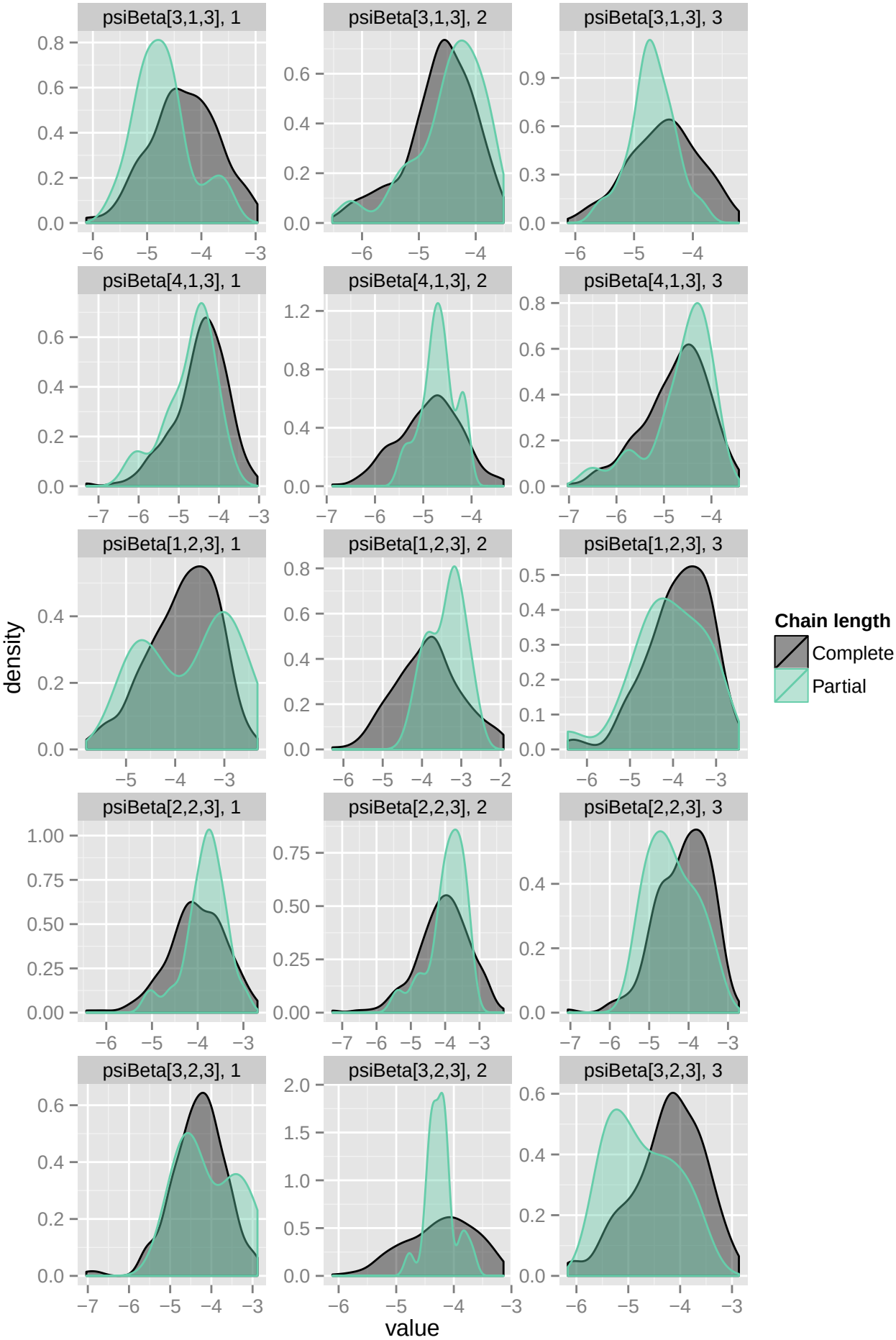
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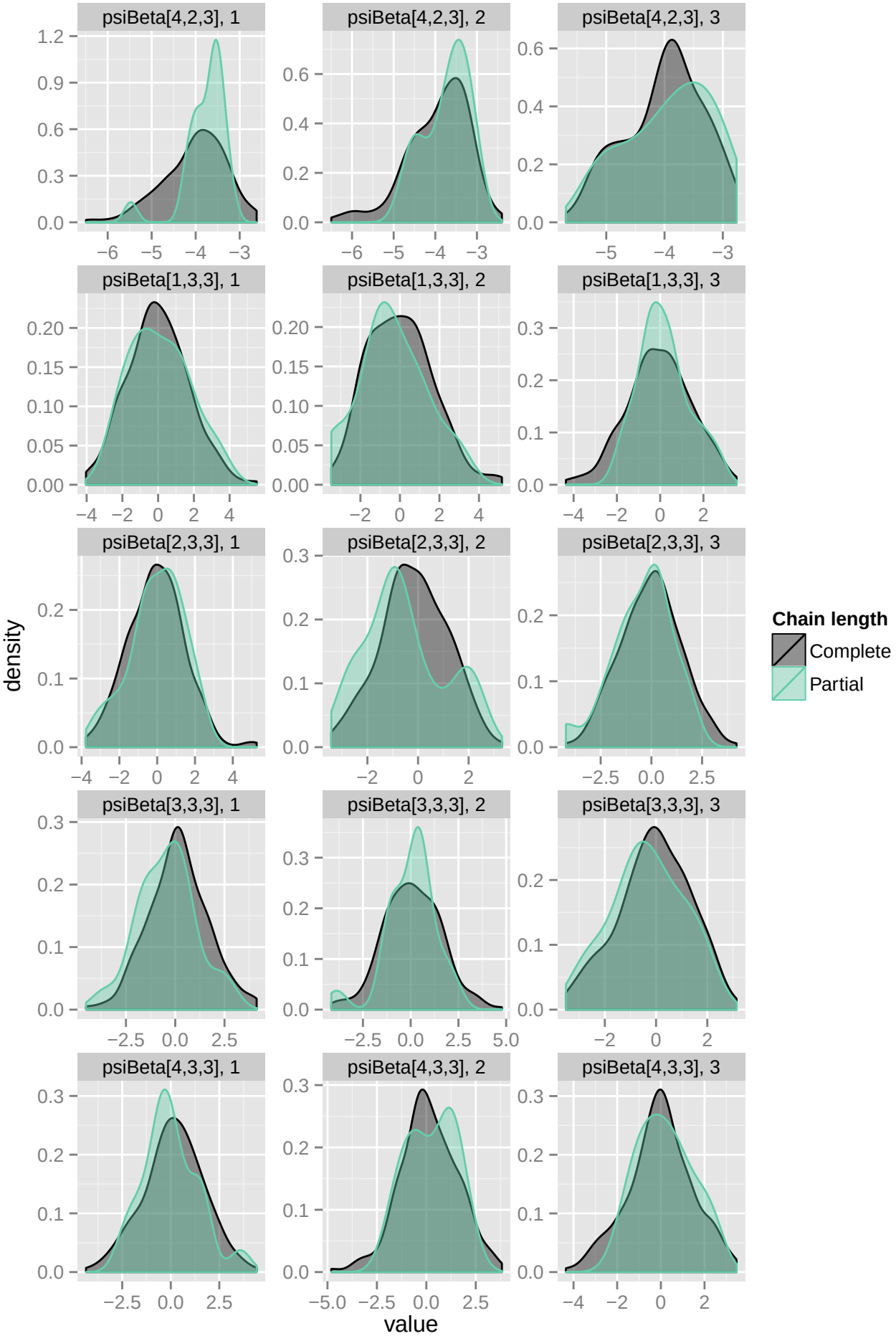
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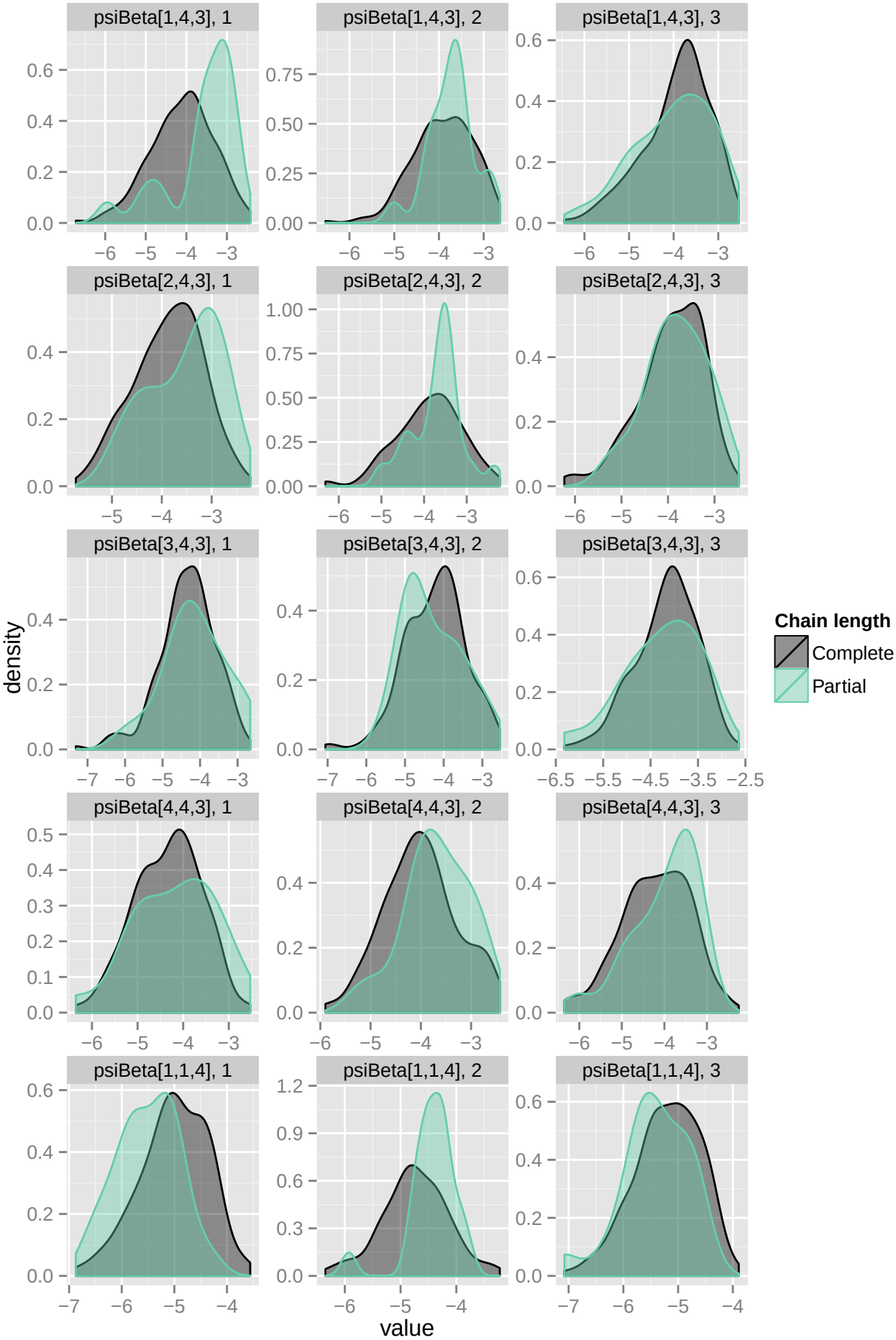
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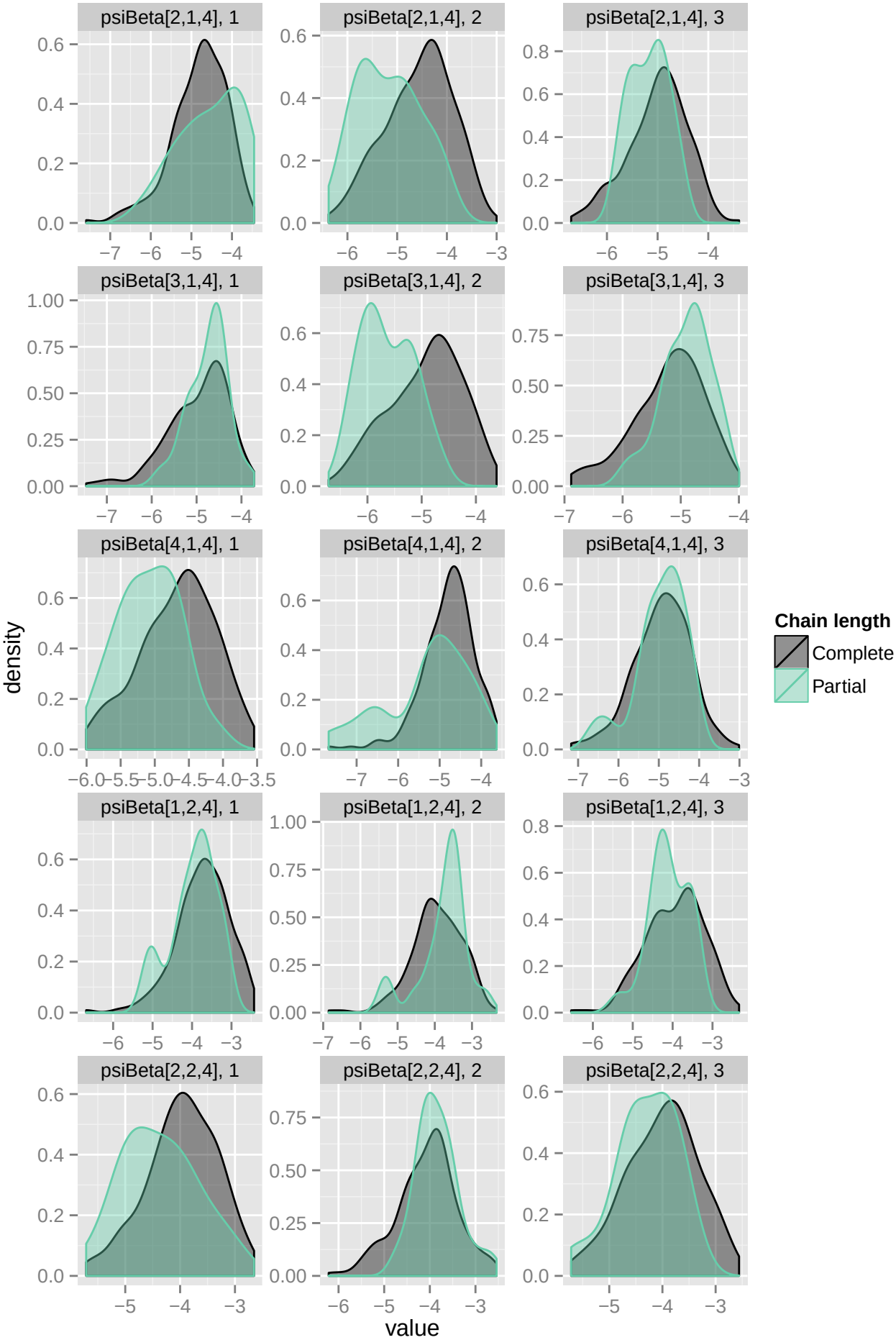
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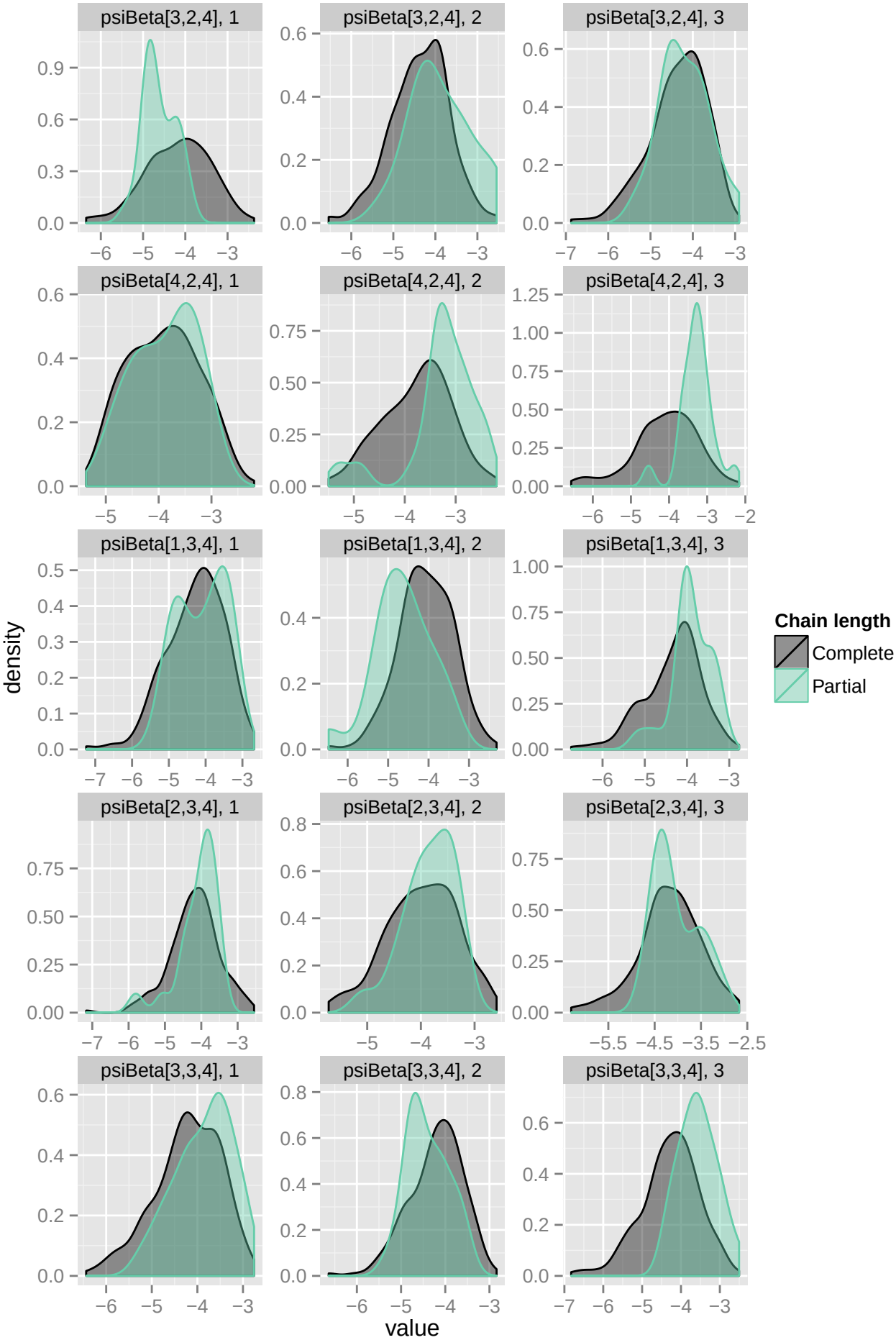
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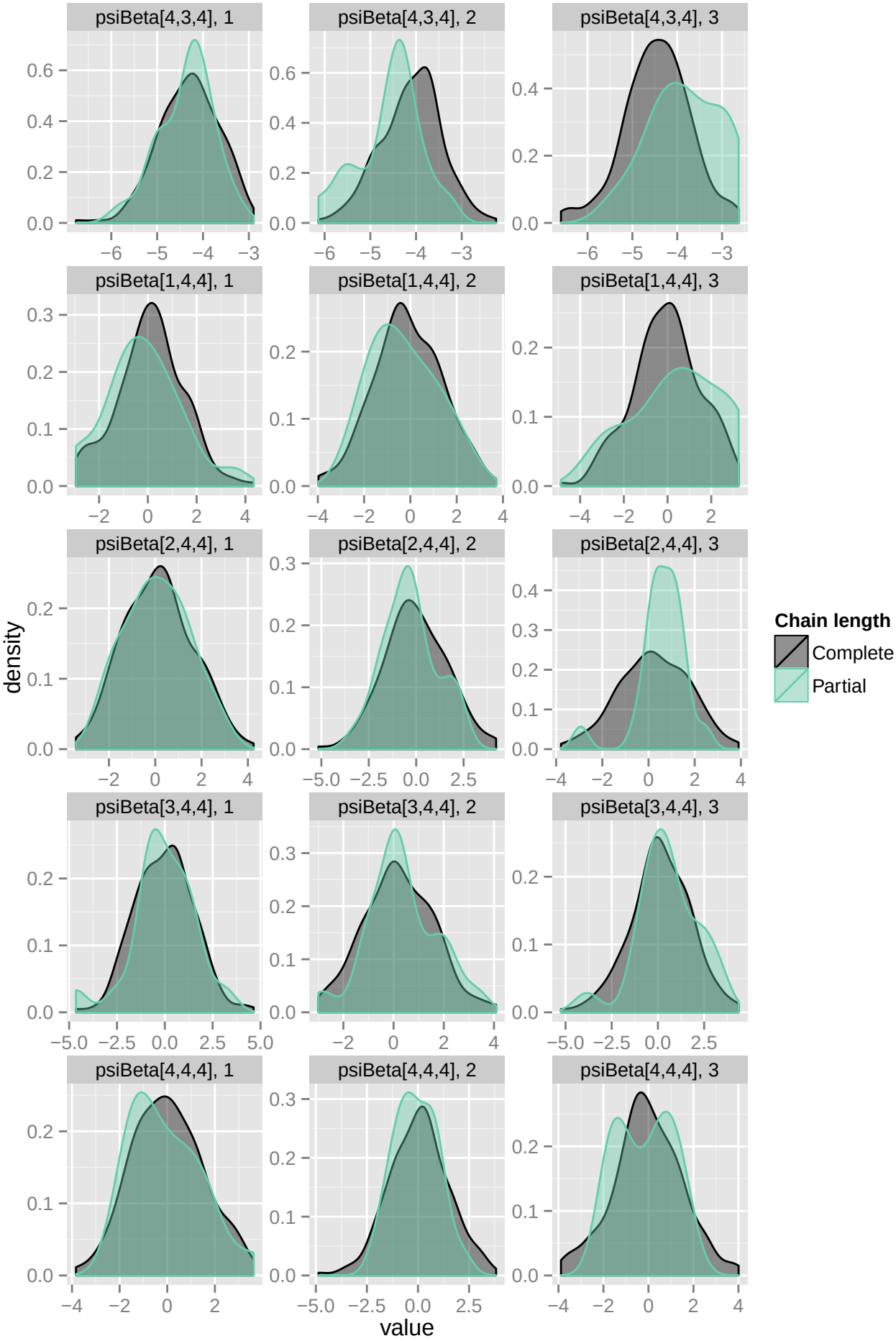
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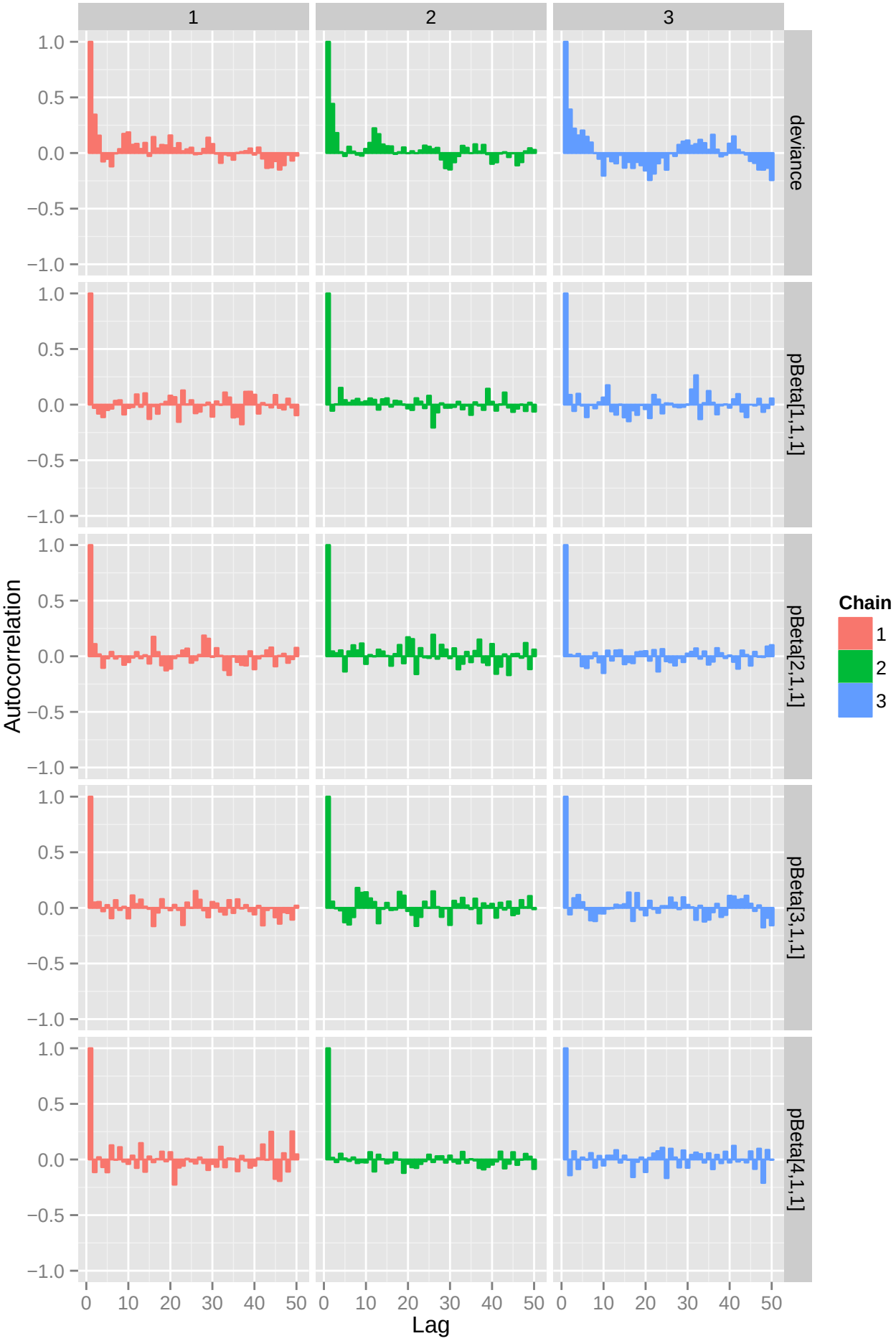
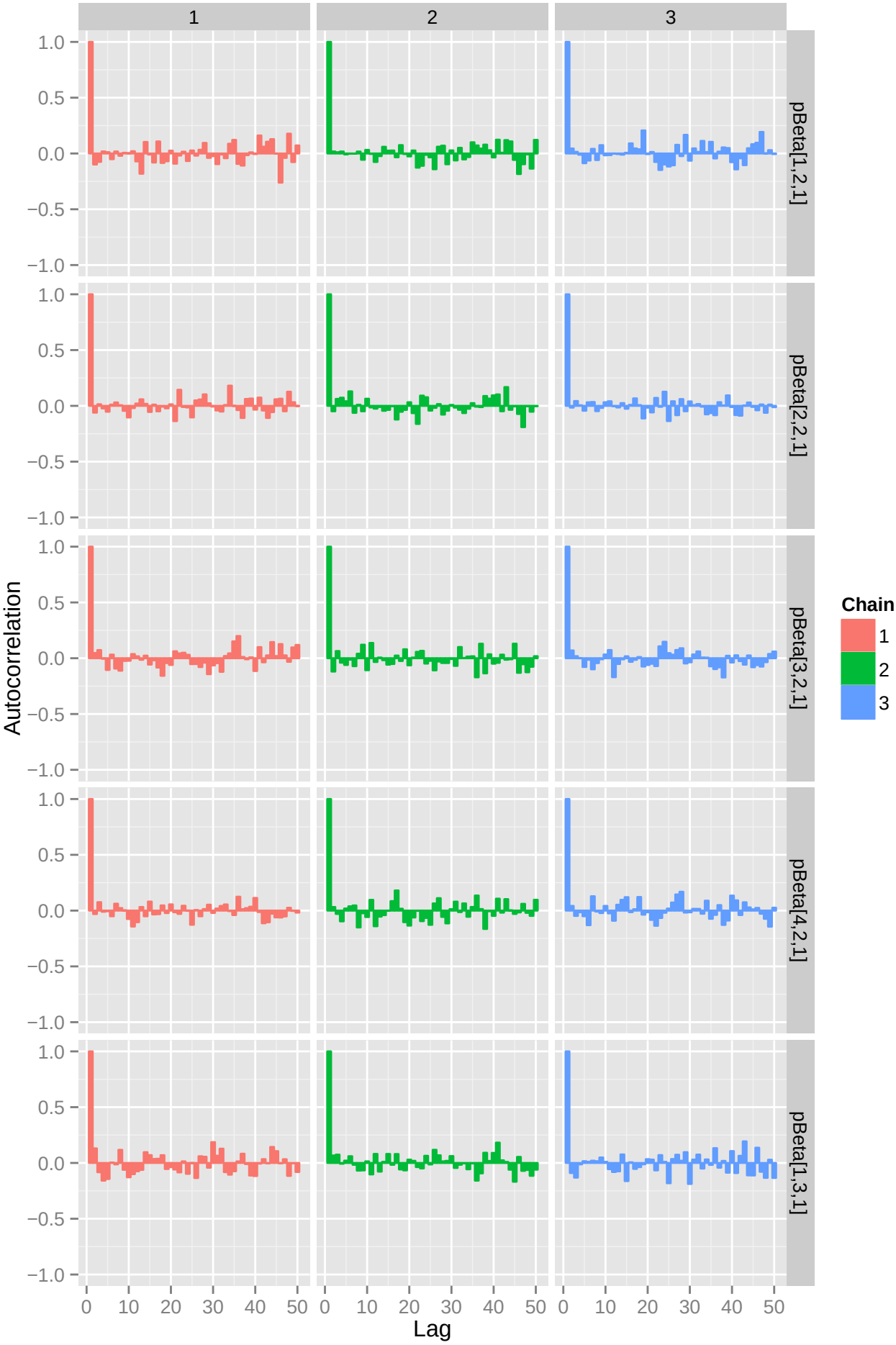
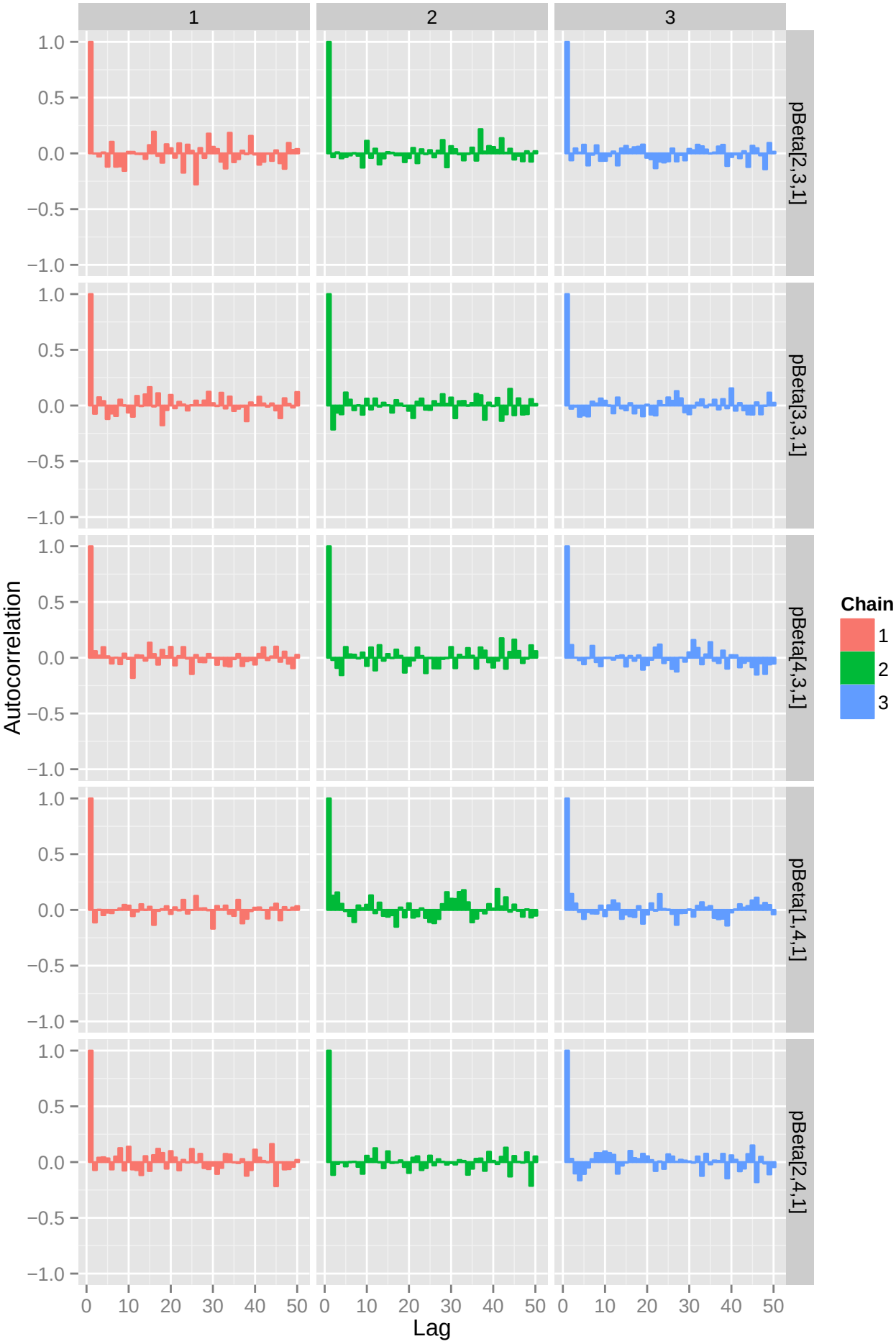
Chain length
Complete
Partial


1
2
3
deviance
pBeta[1,1,1]
pBeta[2,1,1]
pBeta[3,1,1]
pBeta[4,1,1]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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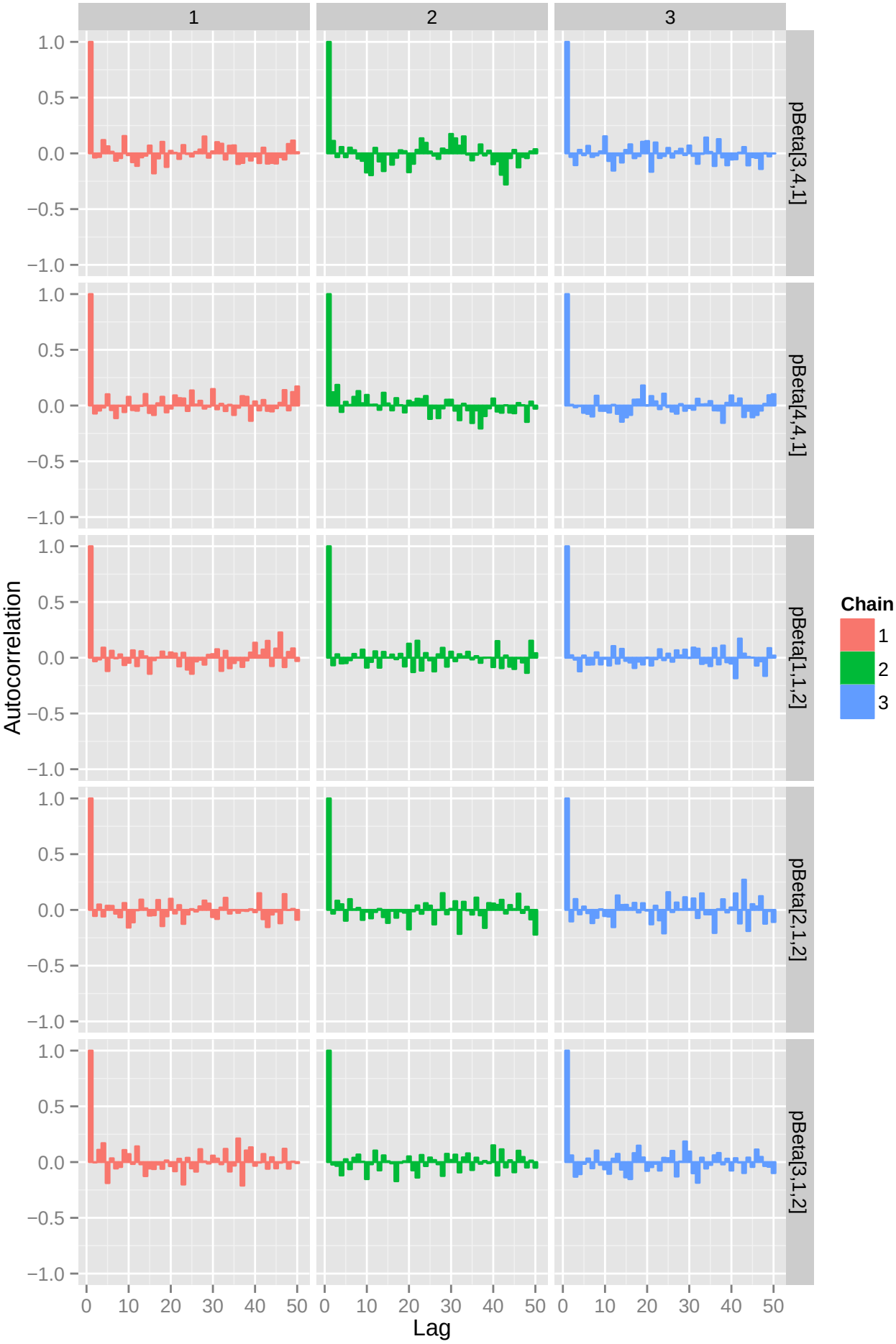
2
3
pBeta[2,3,1]
pBeta[3,3,1]
pBeta[4,3,1]
pBeta[1,4,1]
pBeta[2,4,1]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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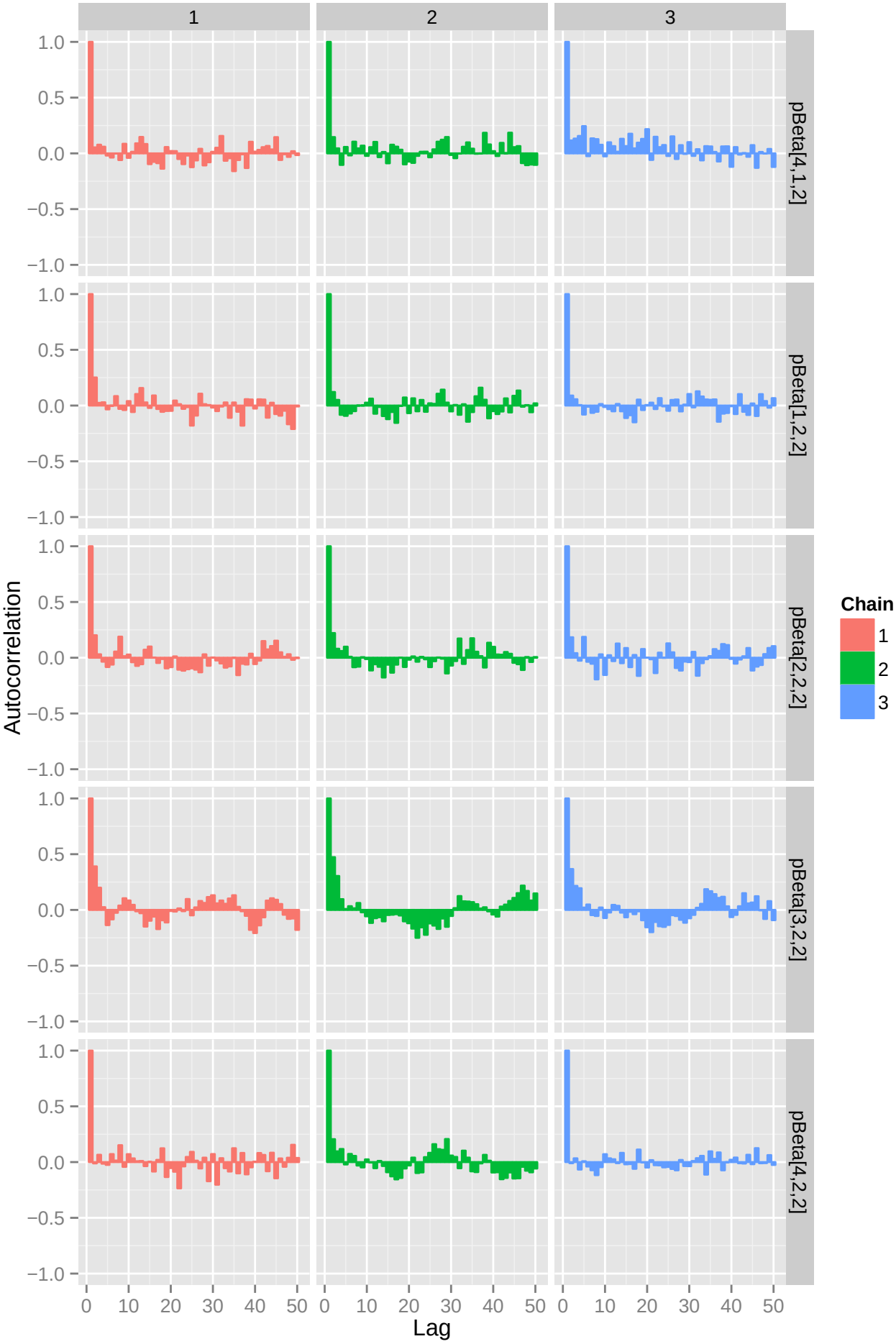
2
3
pBeta[3,4,1]
pBeta[4,4,1]
pBeta[1,1,2]
pBeta[2,1,2]
pBeta[3,1,2]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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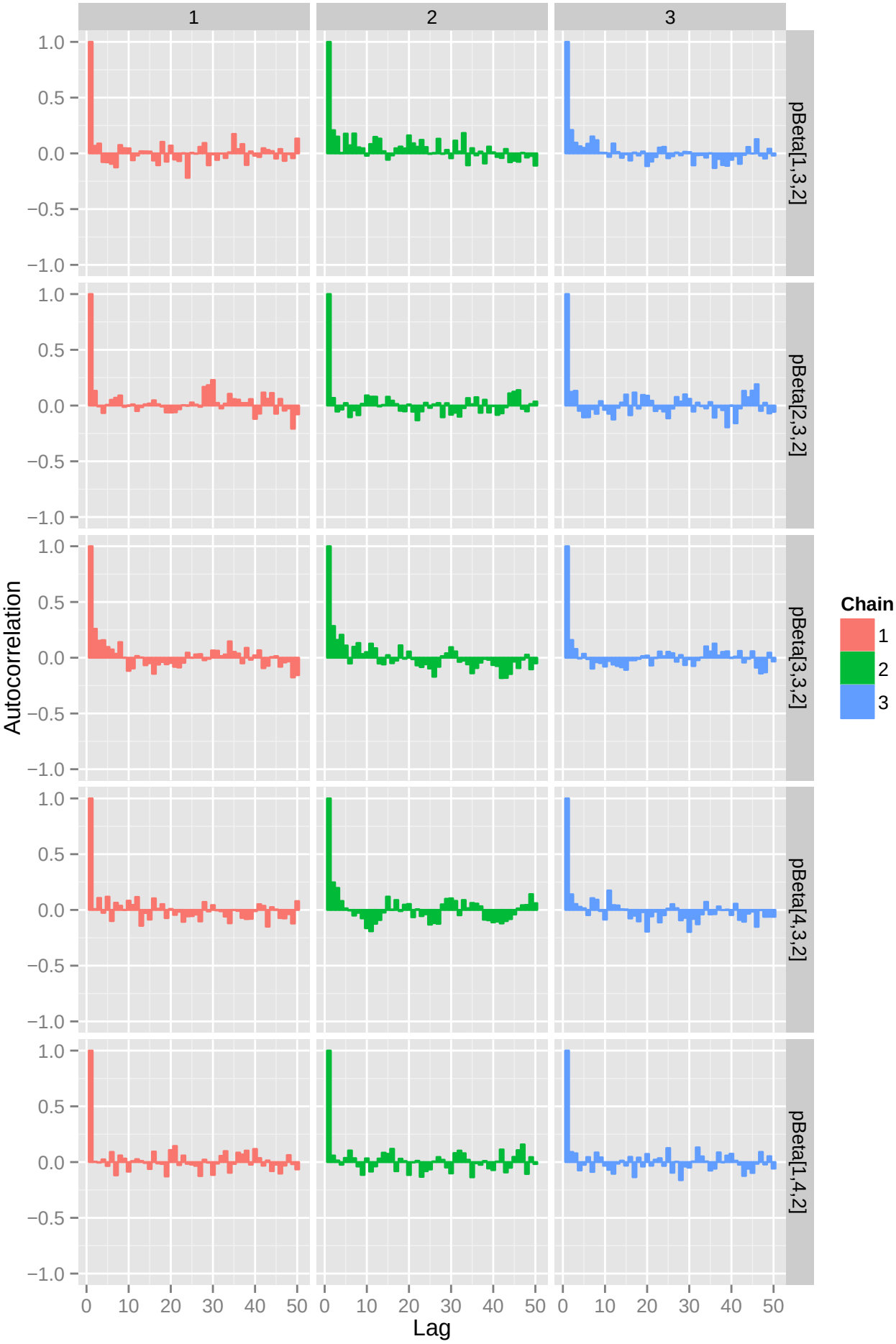
2
3
pBeta[4,1,2]
pBeta[1,2,2]
pBeta[2,2,2]
pBeta[3,2,2]
pBeta[4,2,2]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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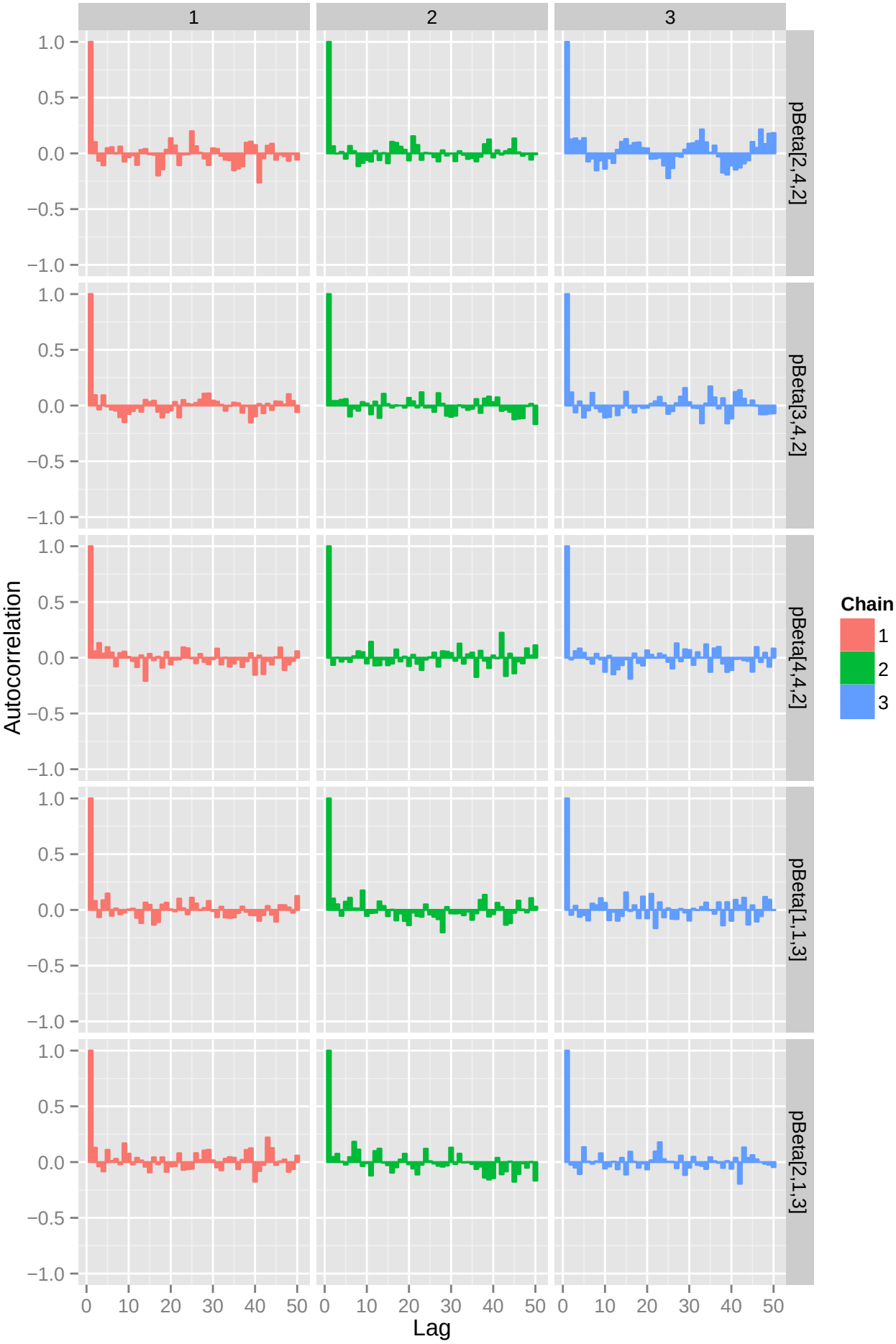
2
3
pBeta[1,3,2]
pBeta[2,3,2]
pBeta[3,3,2]
pBeta[4,3,2]
pBeta[1,4,2]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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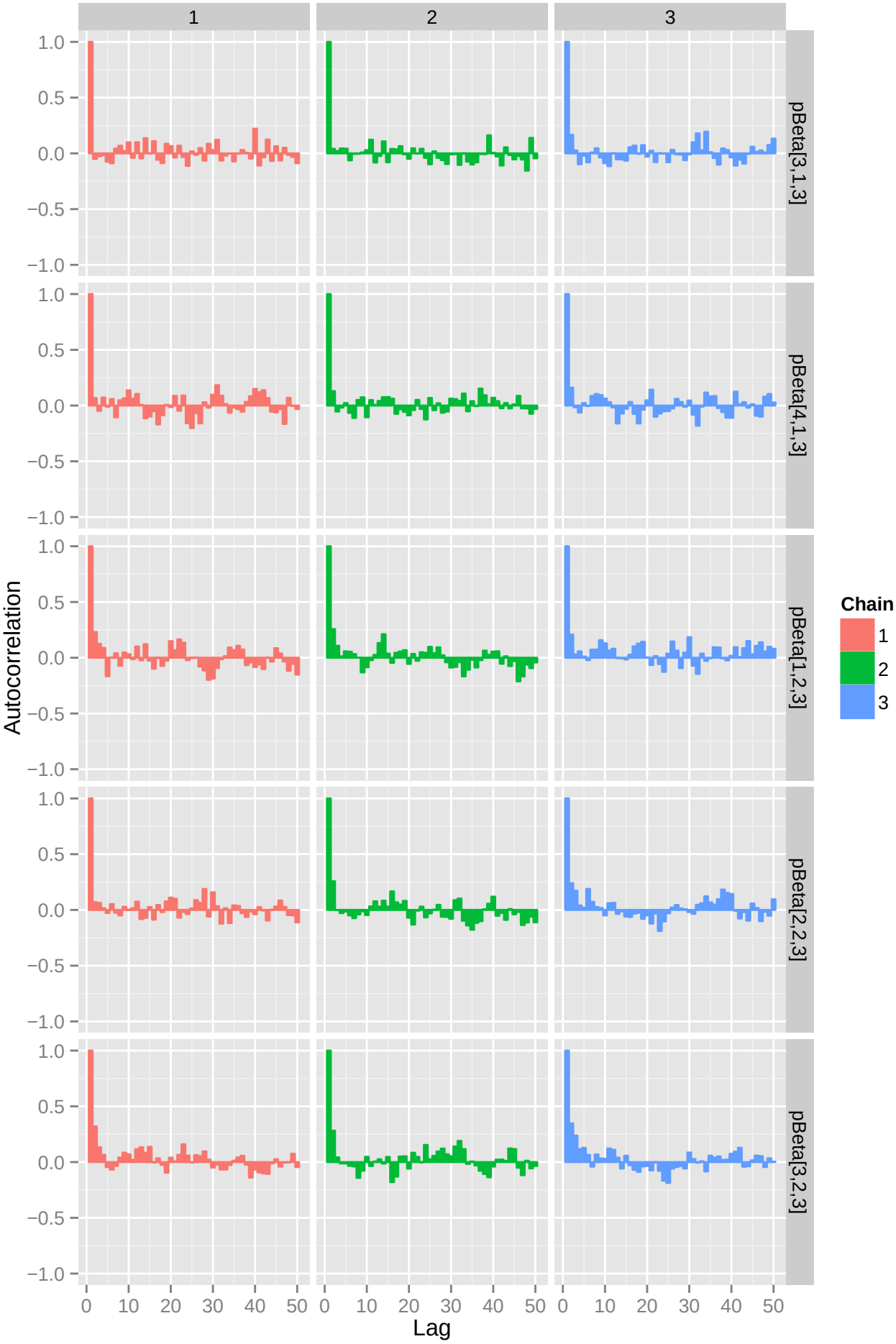
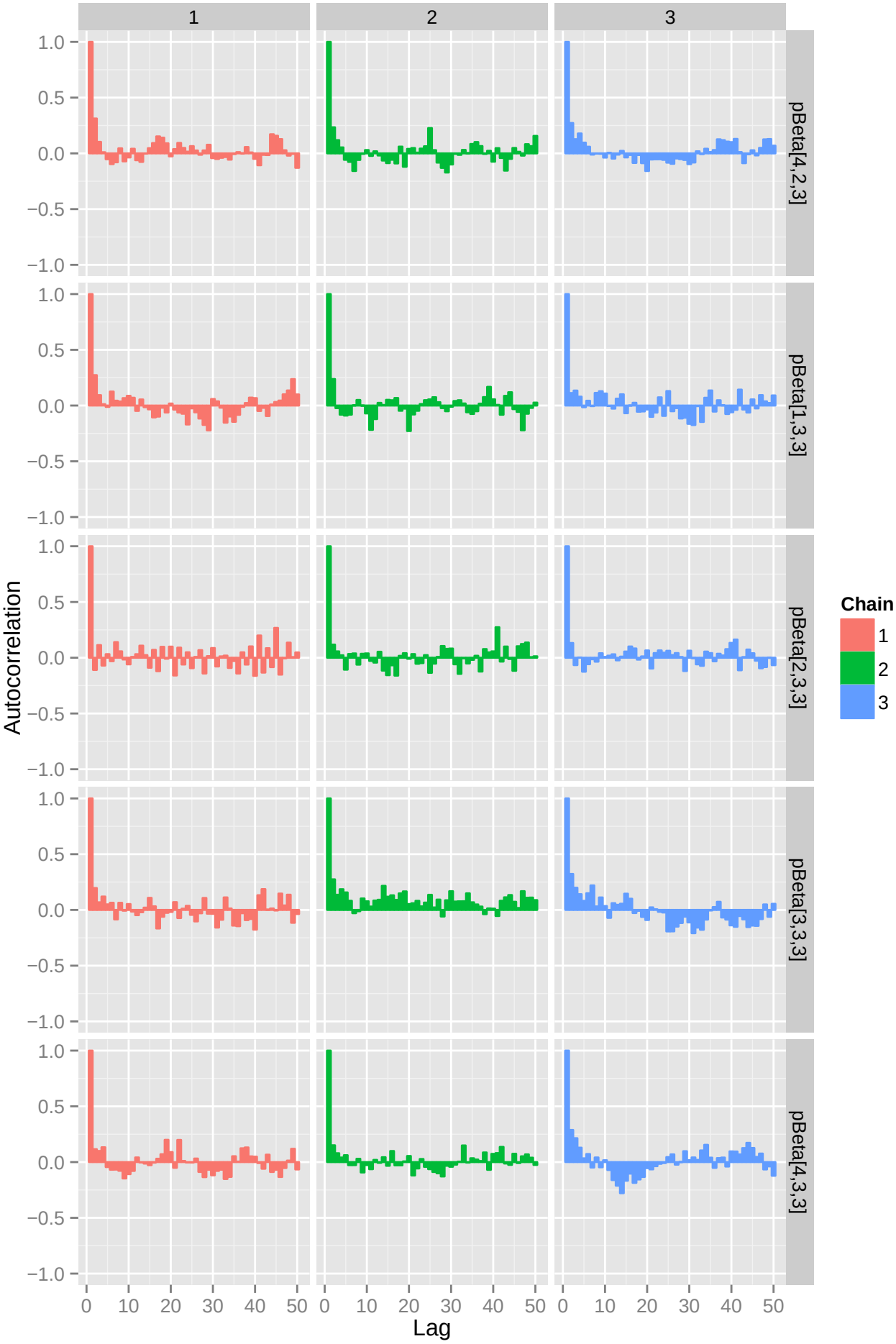
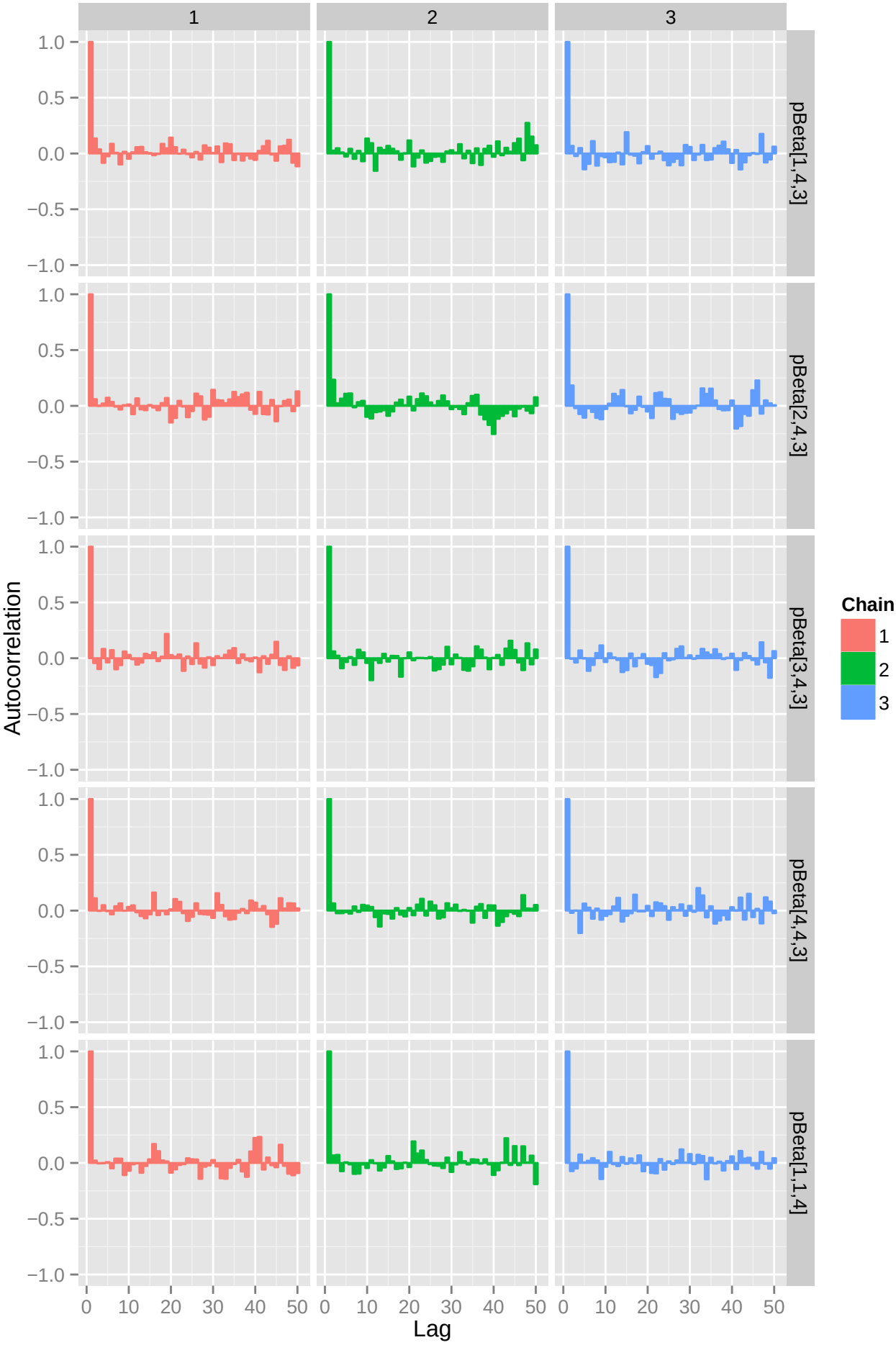
2
3
pBeta[2,4,2]
pBeta[3,4,2]
pBeta[4,4,2]
pBeta[1,1,3]
pBeta[2,1,3]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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


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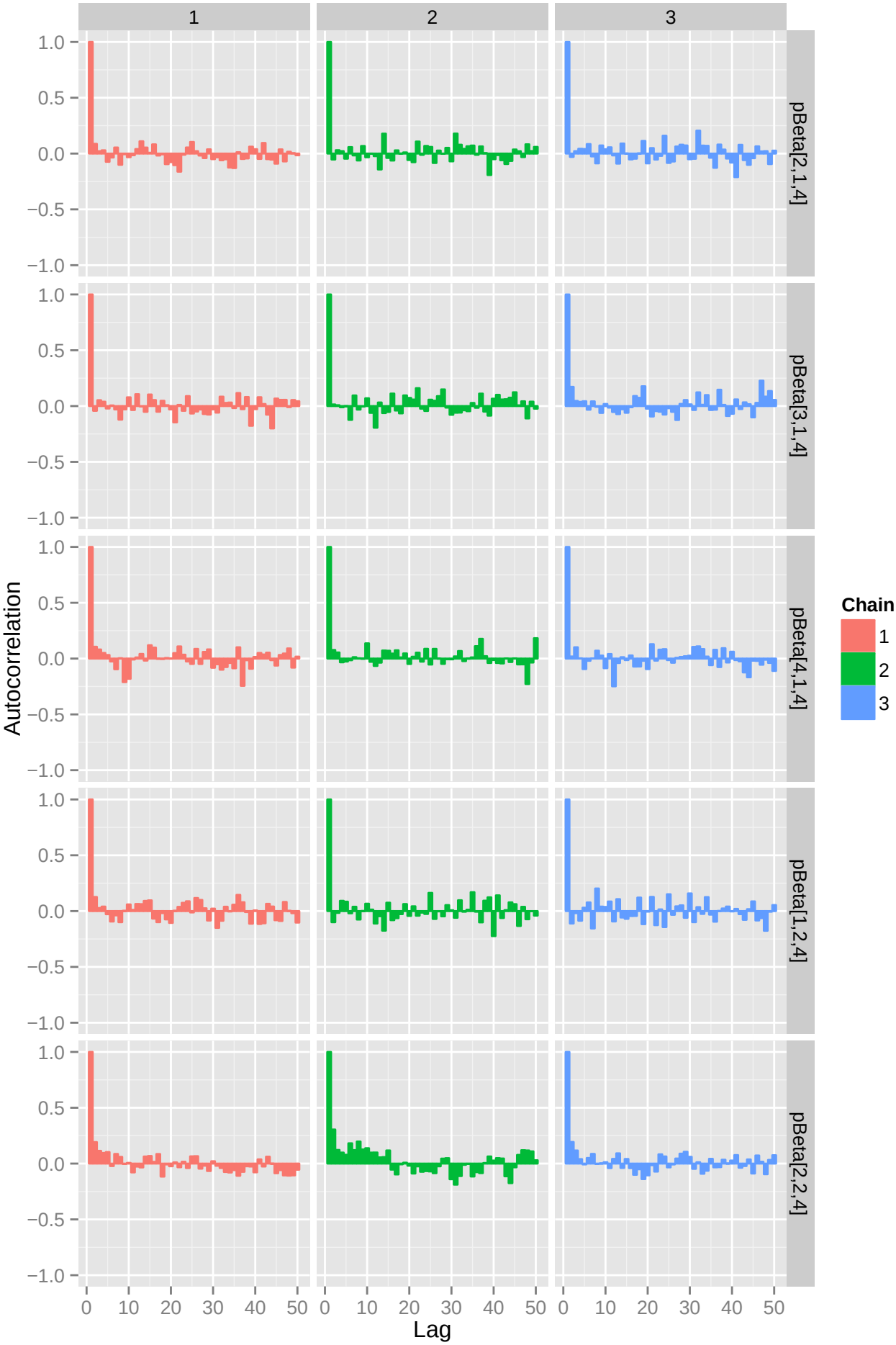
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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2
3
pBeta[2,1,4]
pBeta[3,1,4]
pBeta[4,1,4]
pBeta[1,2,4]
pBeta[2,2,4]
Autocorrelation
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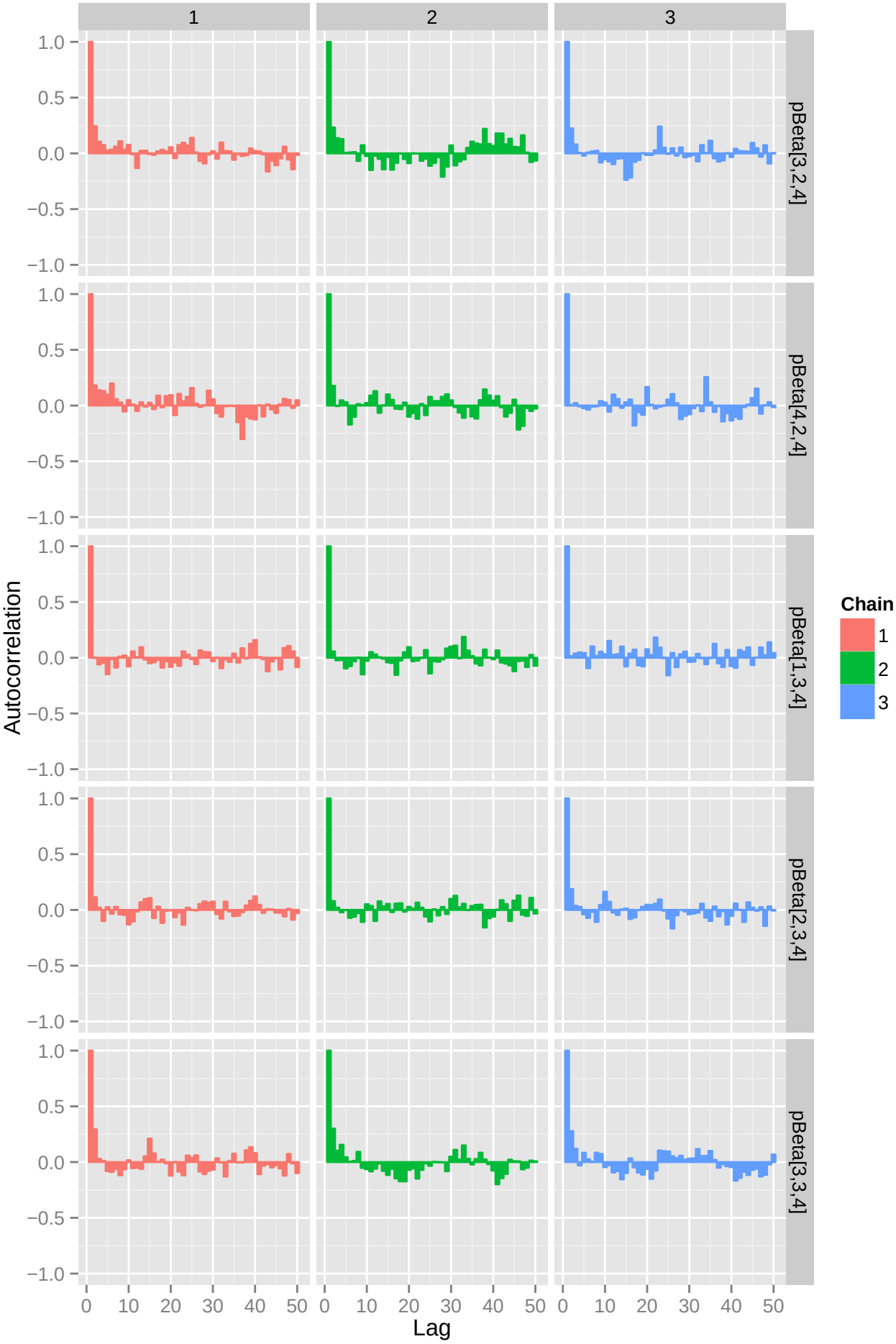
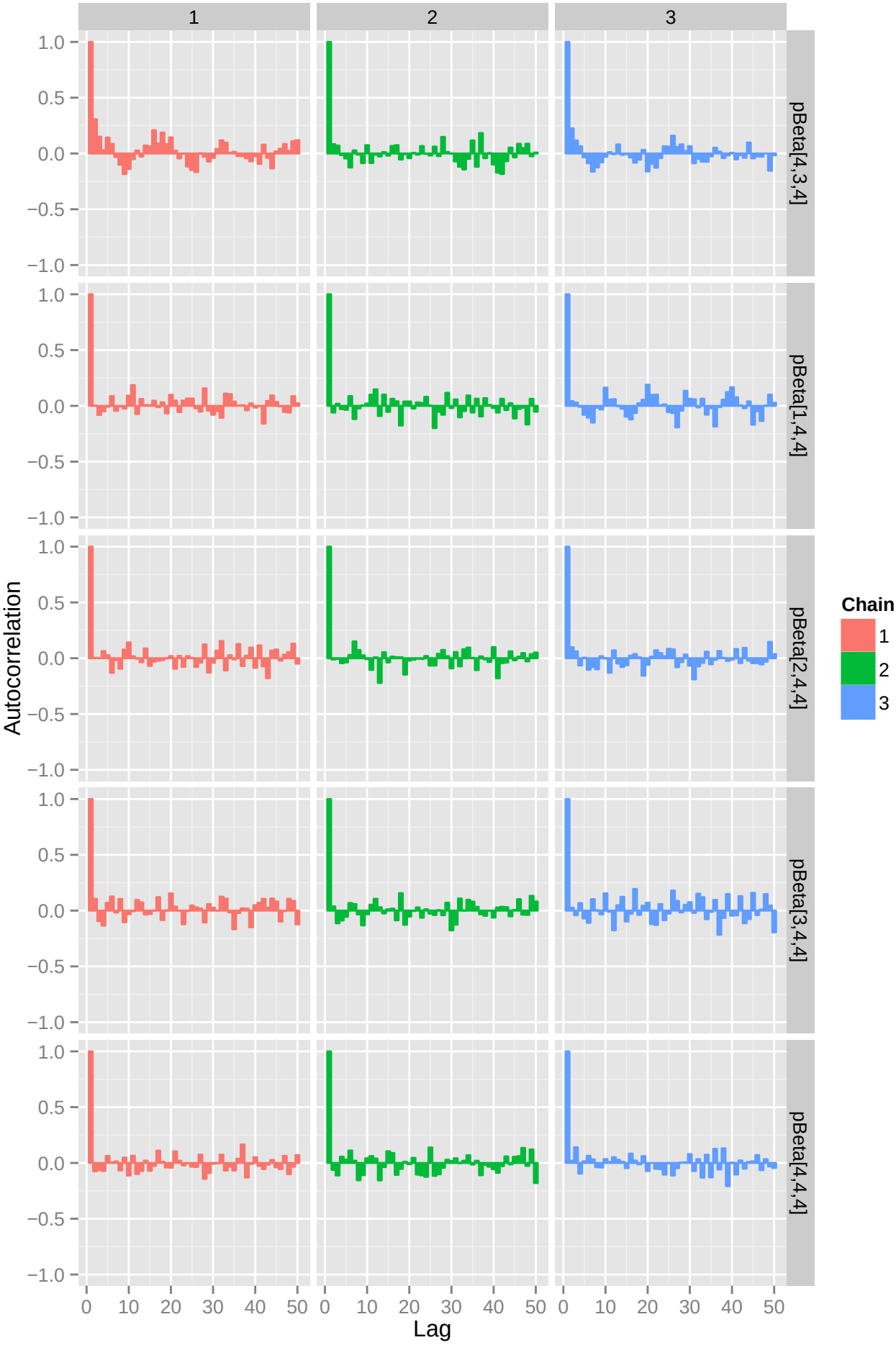
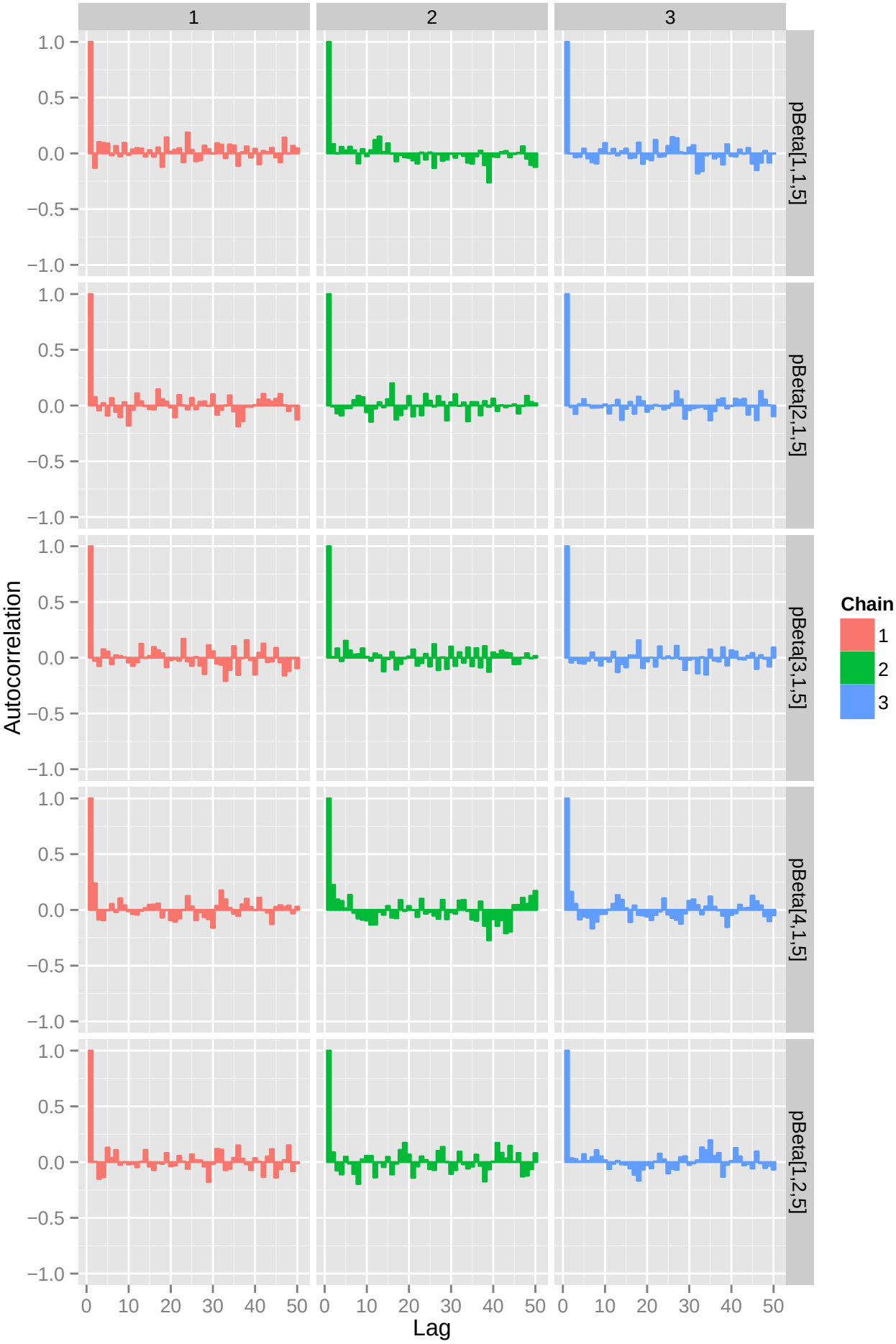
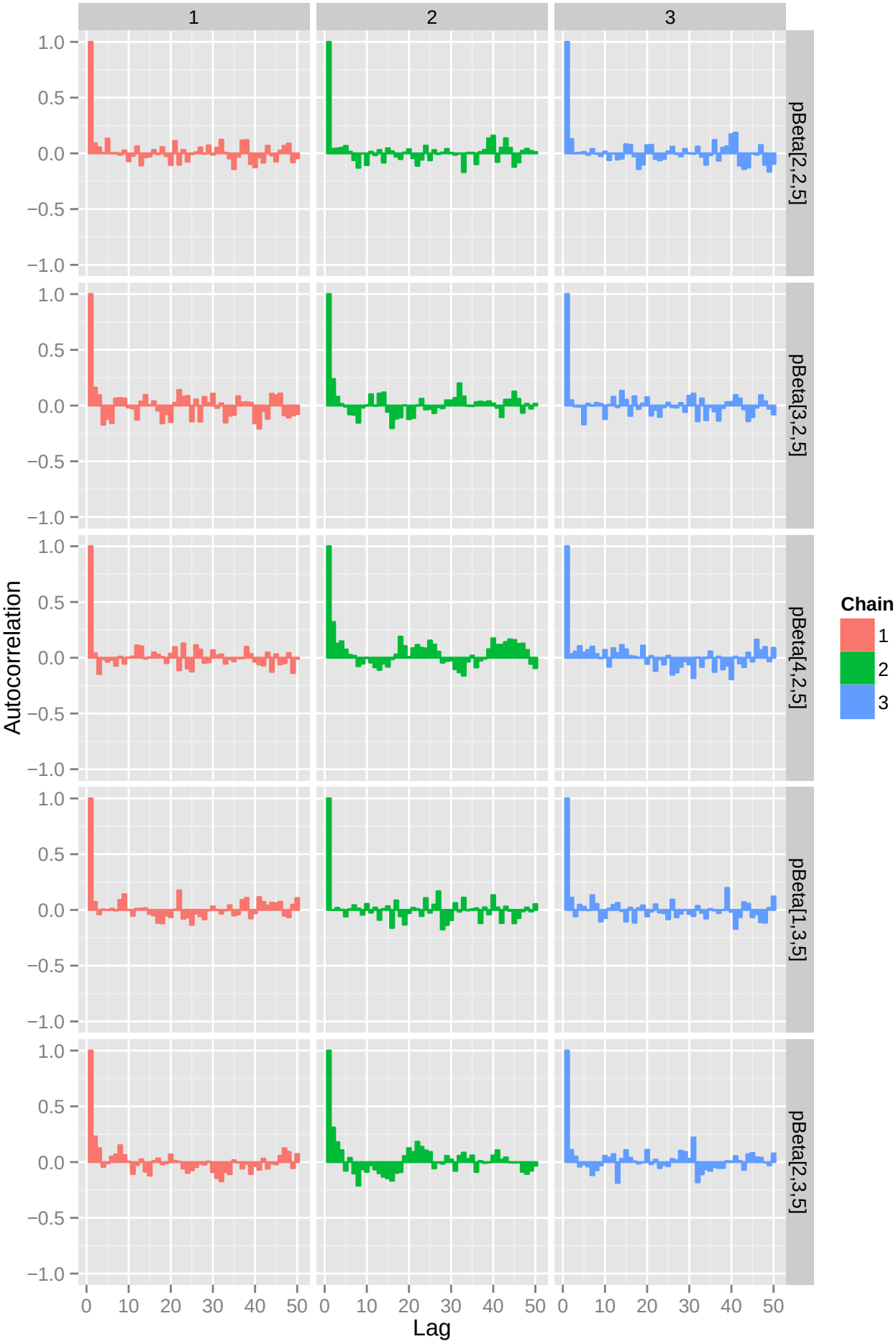
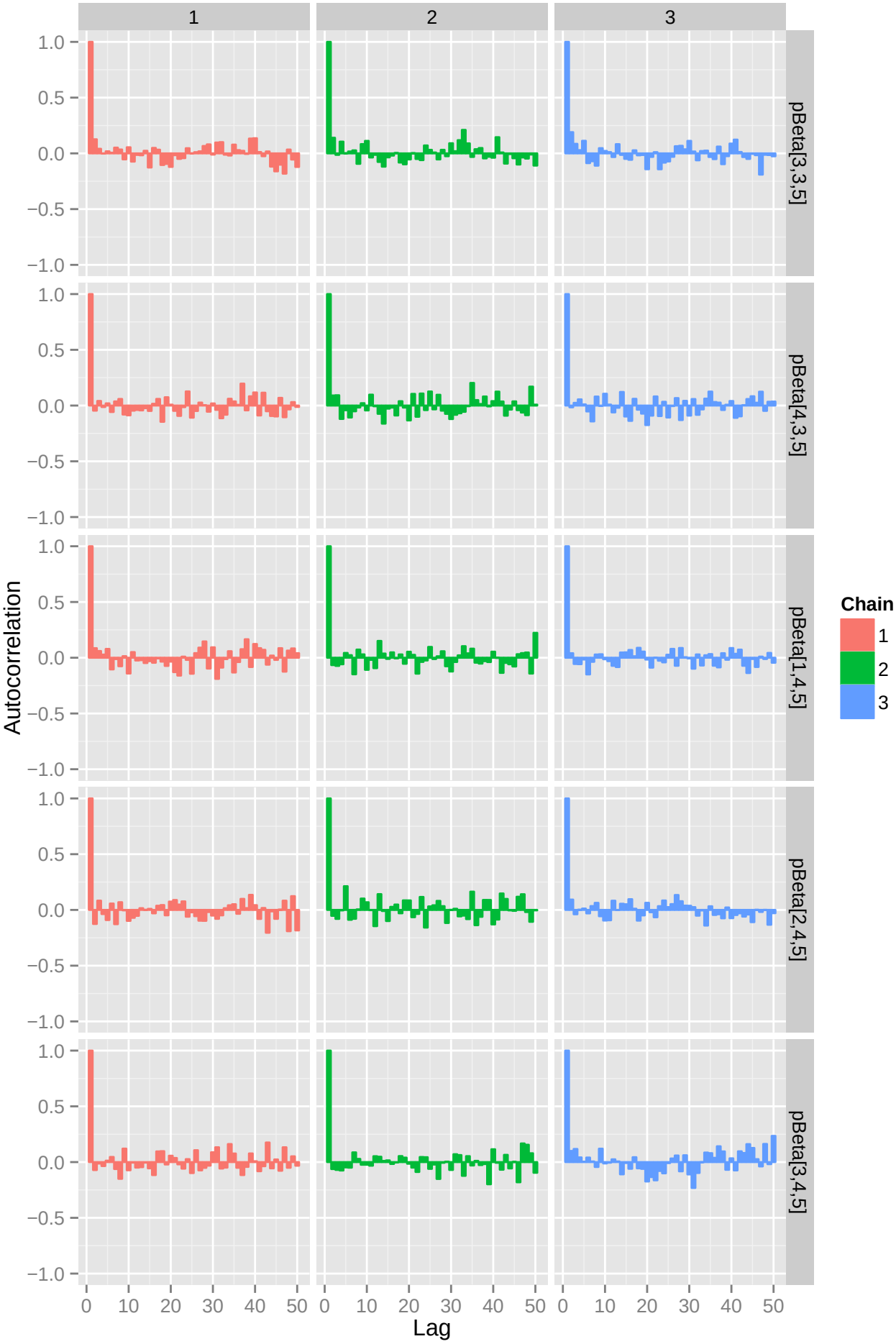
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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


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


1
2
3
pBeta[1,1,5]
pBeta[2,1,5]
pBeta[3,1,5]
pBeta[4,1,5]
pBeta[1,2,5]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


1
2
3
pBeta[2,2,5]
pBeta[3,2,5]
pBeta[4,2,5]
pBeta[1,3,5]
pBeta[2,3,5]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


1
2
3
pBeta[3,3,5]
pBeta[4,3,5]
pBeta[1,4,5]
pBeta[2,4,5]
pBeta[3,4,5]
Autocorrelation
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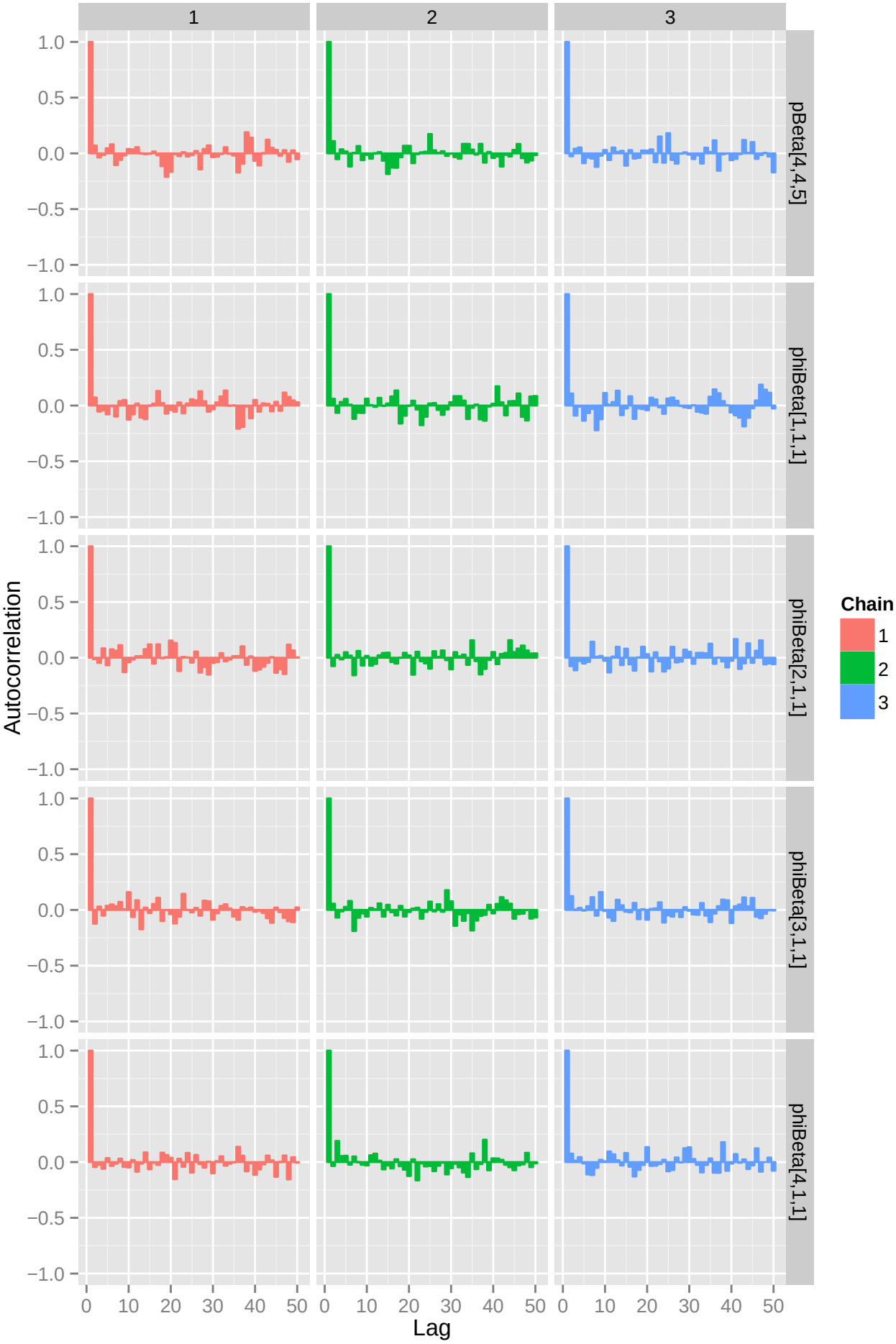
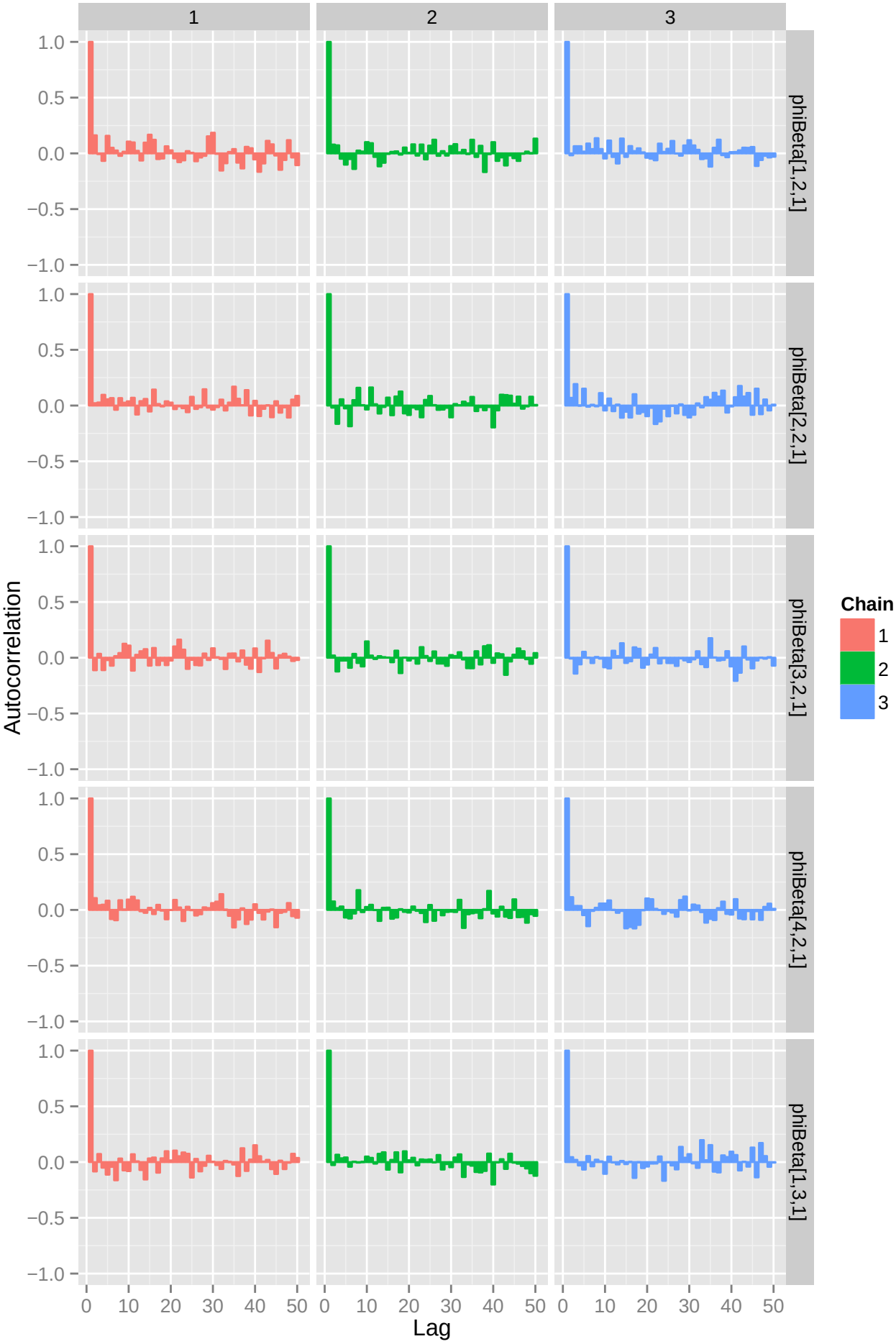
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


1
2
3
pBeta[4,4,5]
phiBeta[1,1,1]
phiBeta[2,1,1]
phiBeta[3,1,1]
phiBeta[4,1,1]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


1
2
3
phiBeta[1,2,1]
phiBeta[2,2,1]
phiBeta[3,2,1]
phiBeta[4,2,1]
phiBeta[1,3,1]
Autocorrelation
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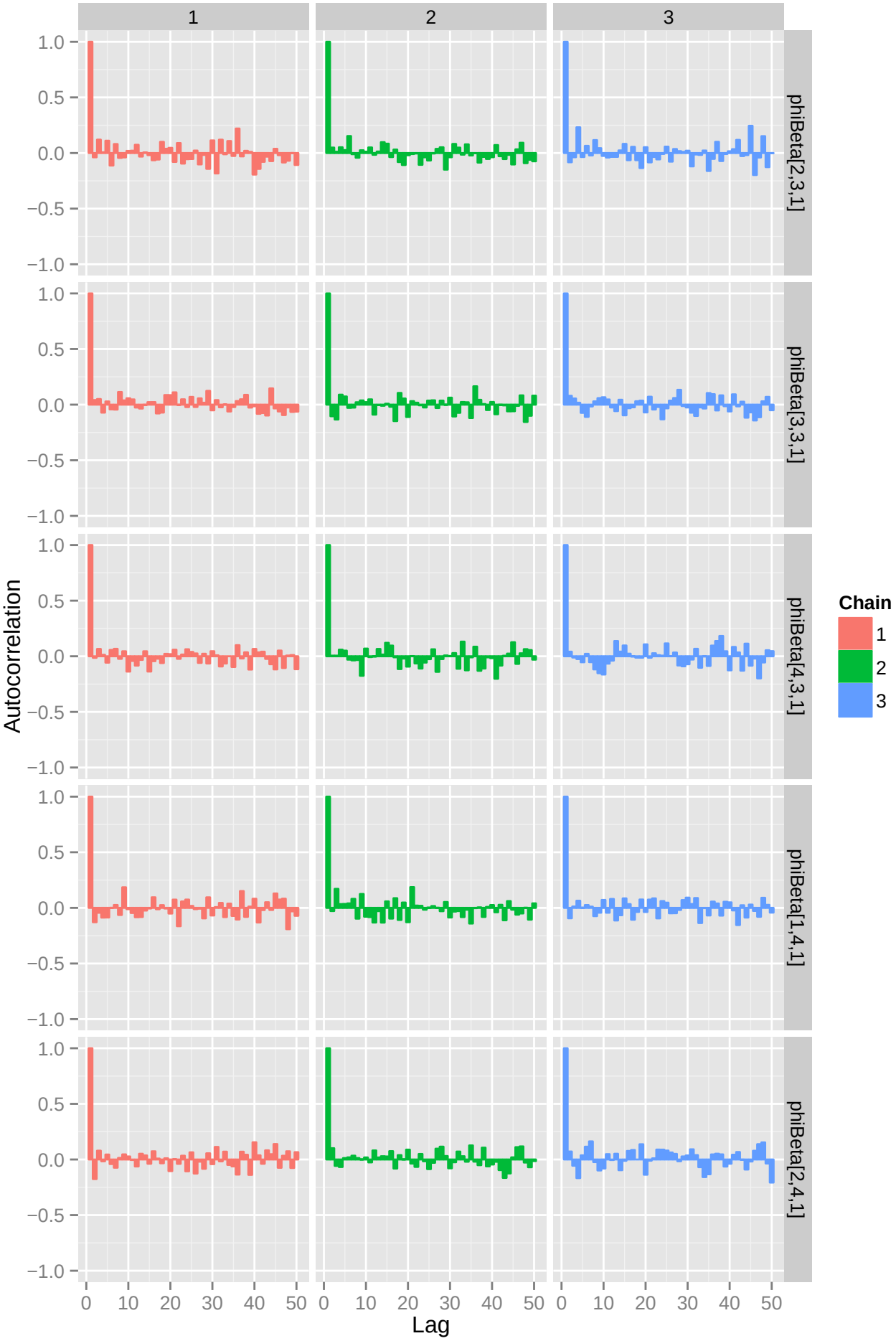
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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2
3
phiBeta[2,3,1]
phiBeta[3,3,1]
phiBeta[4,3,1]
phiBeta[1,4,1]
phiBeta[2,4,1]
Autocorrelation
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−0.5
−1.0
0
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20
30
40
50
Lag
Chain
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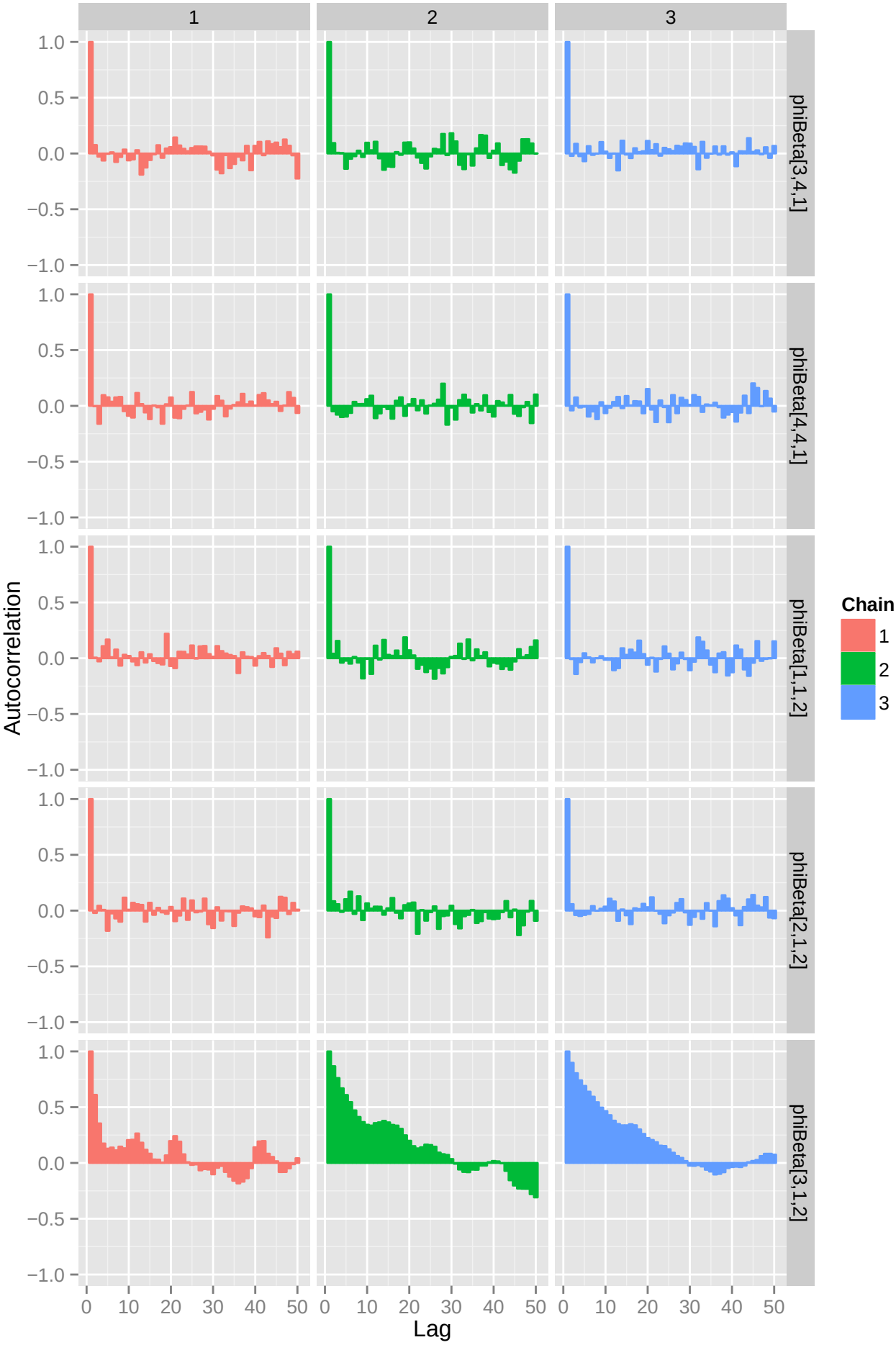
2
3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3
phiBeta[3,4,1]
phiBeta[4,4,1]
phiBeta[1,1,2]
phiBeta[2,1,2]
phiBeta[3,1,2]
Autocorrelation
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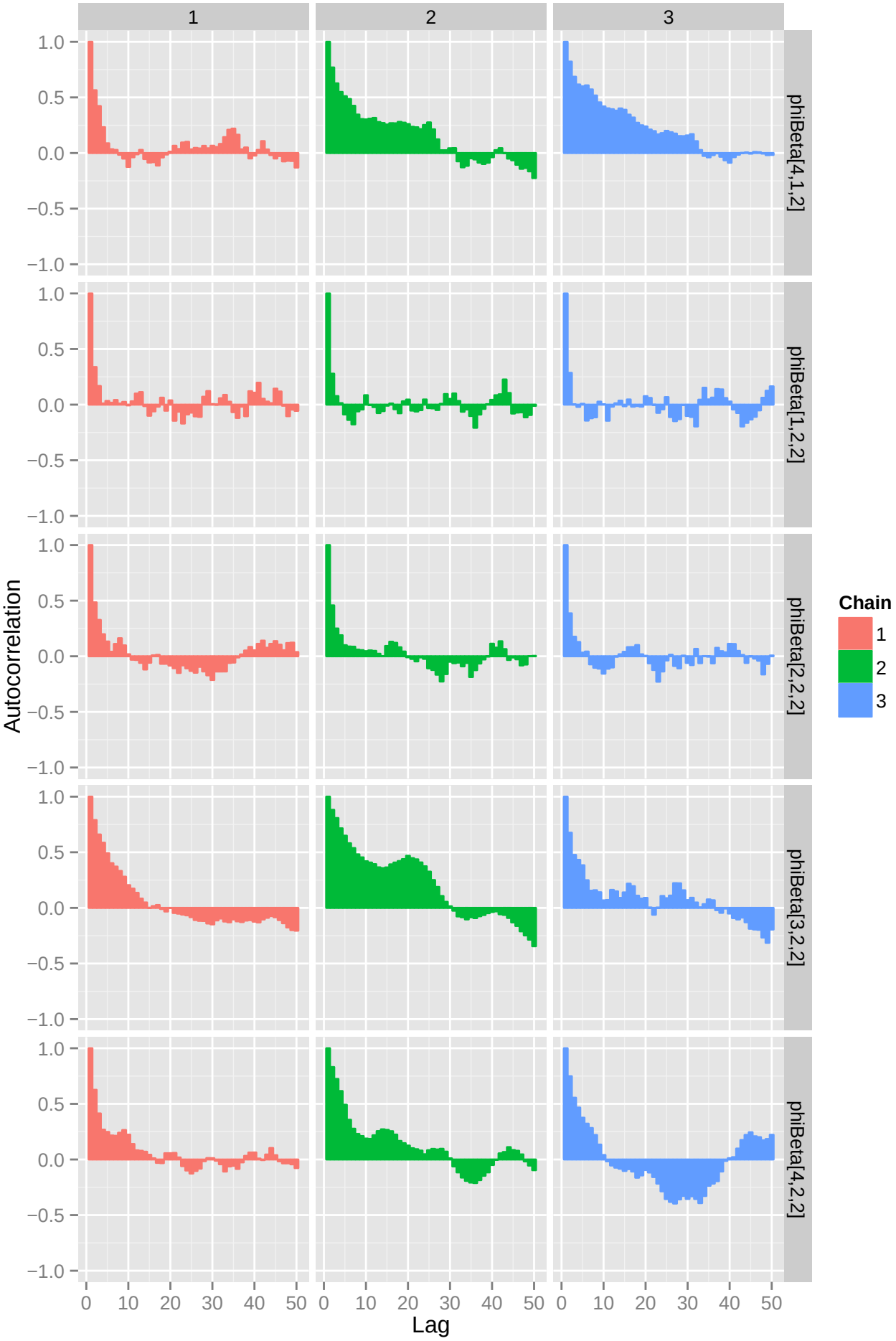
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


1
2
3
phiBeta[4,1,2]
phiBeta[1,2,2]
phiBeta[2,2,2]
phiBeta[3,2,2]
phiBeta[4,2,2]
Autocorrelation
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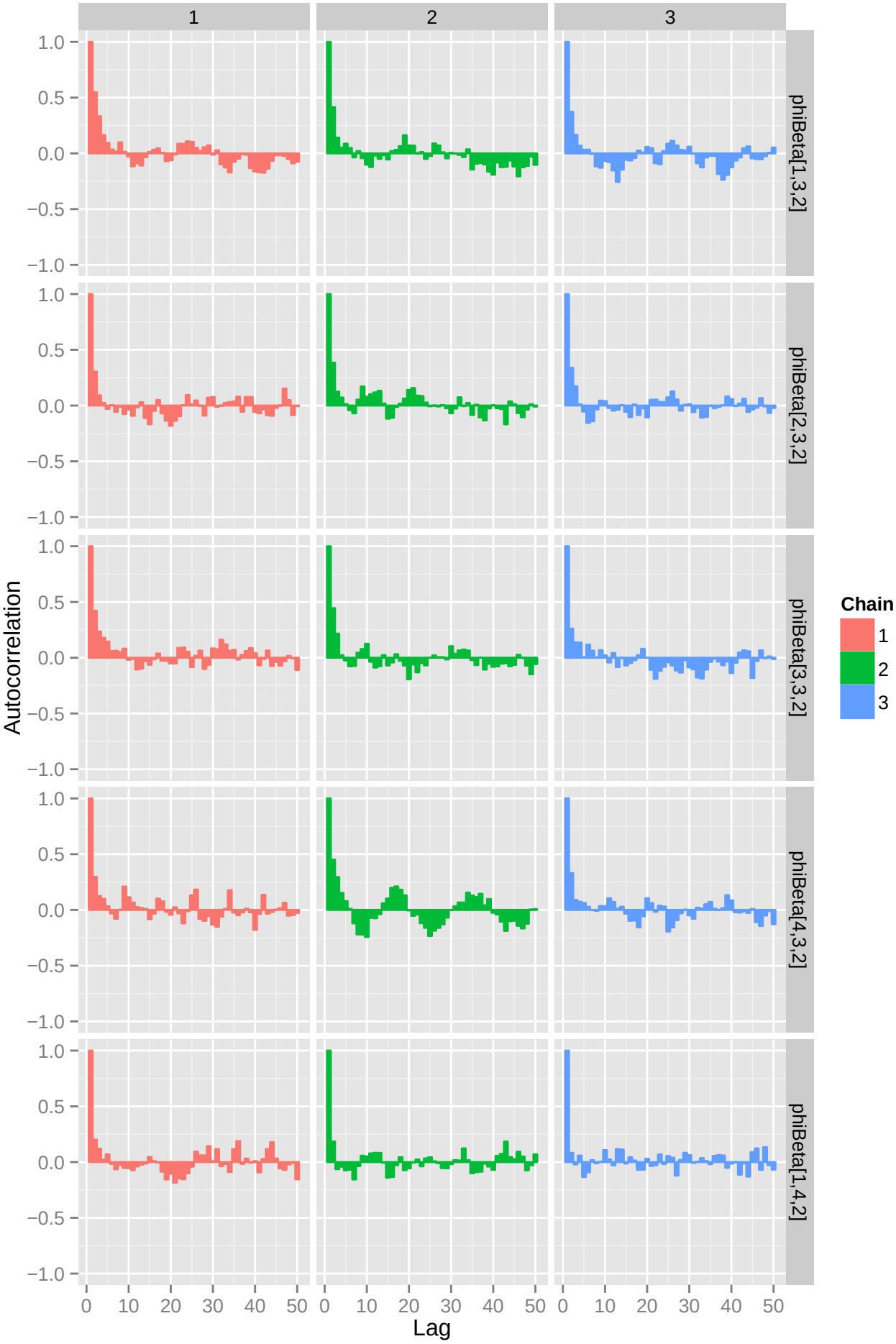
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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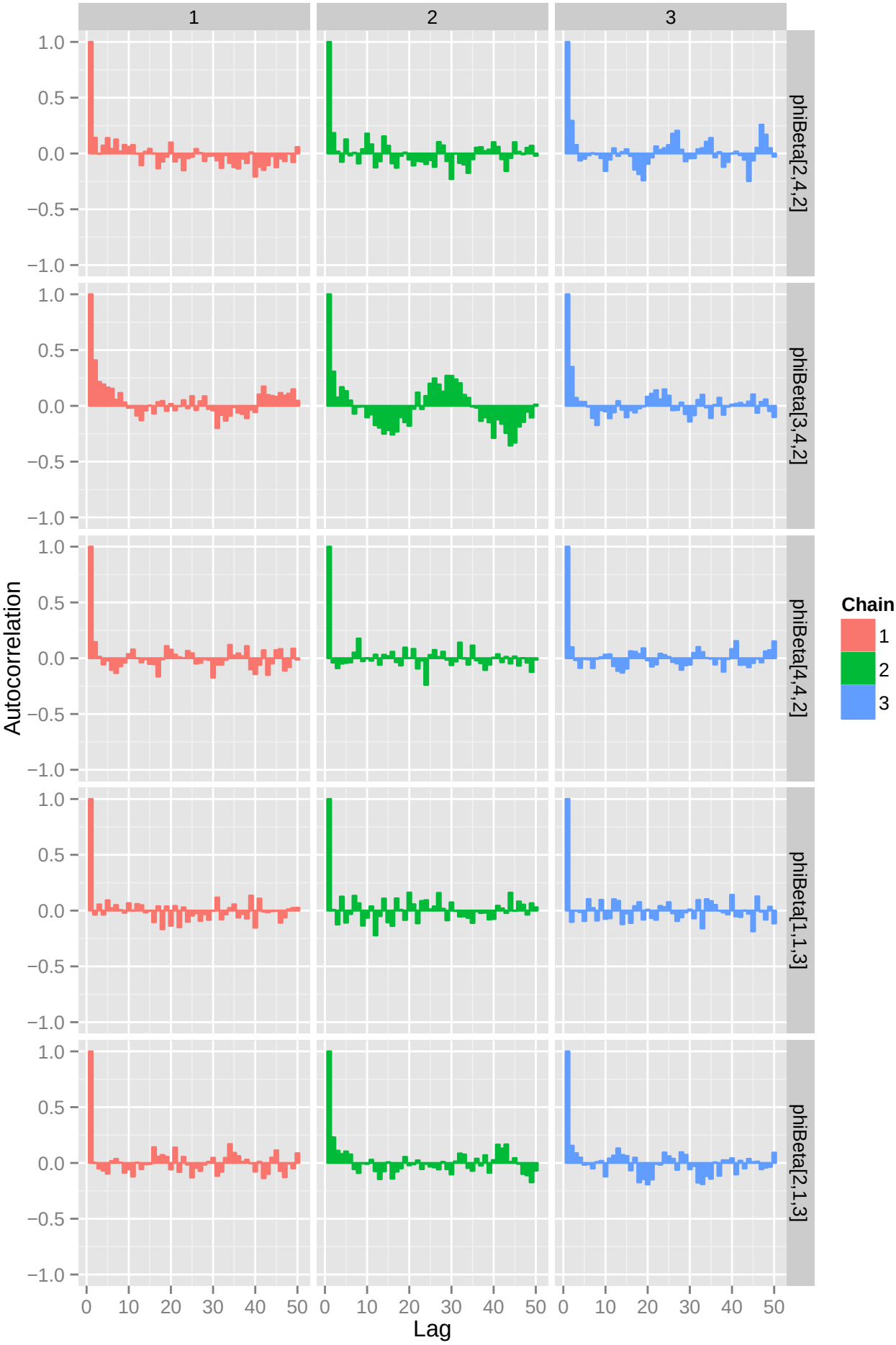
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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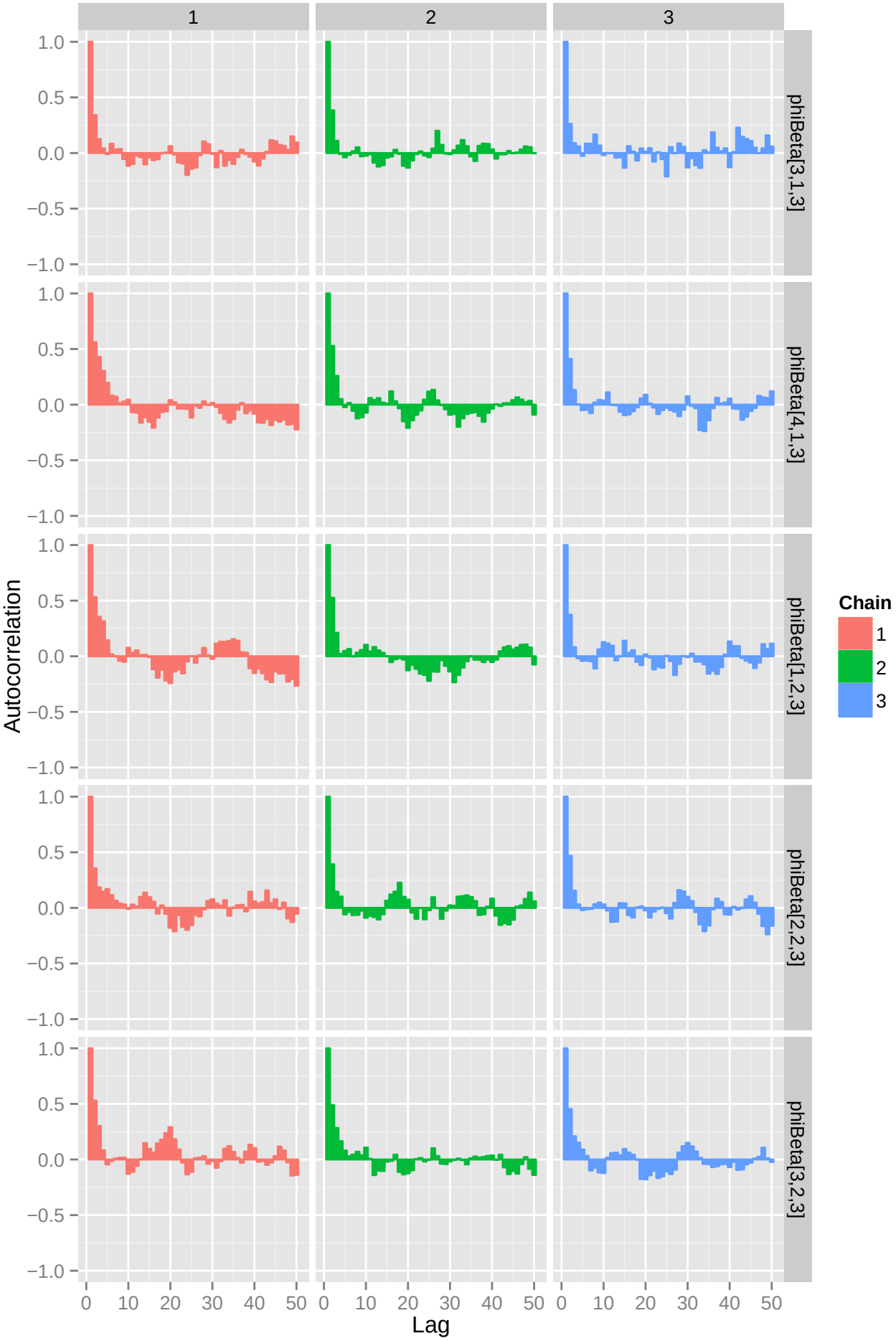
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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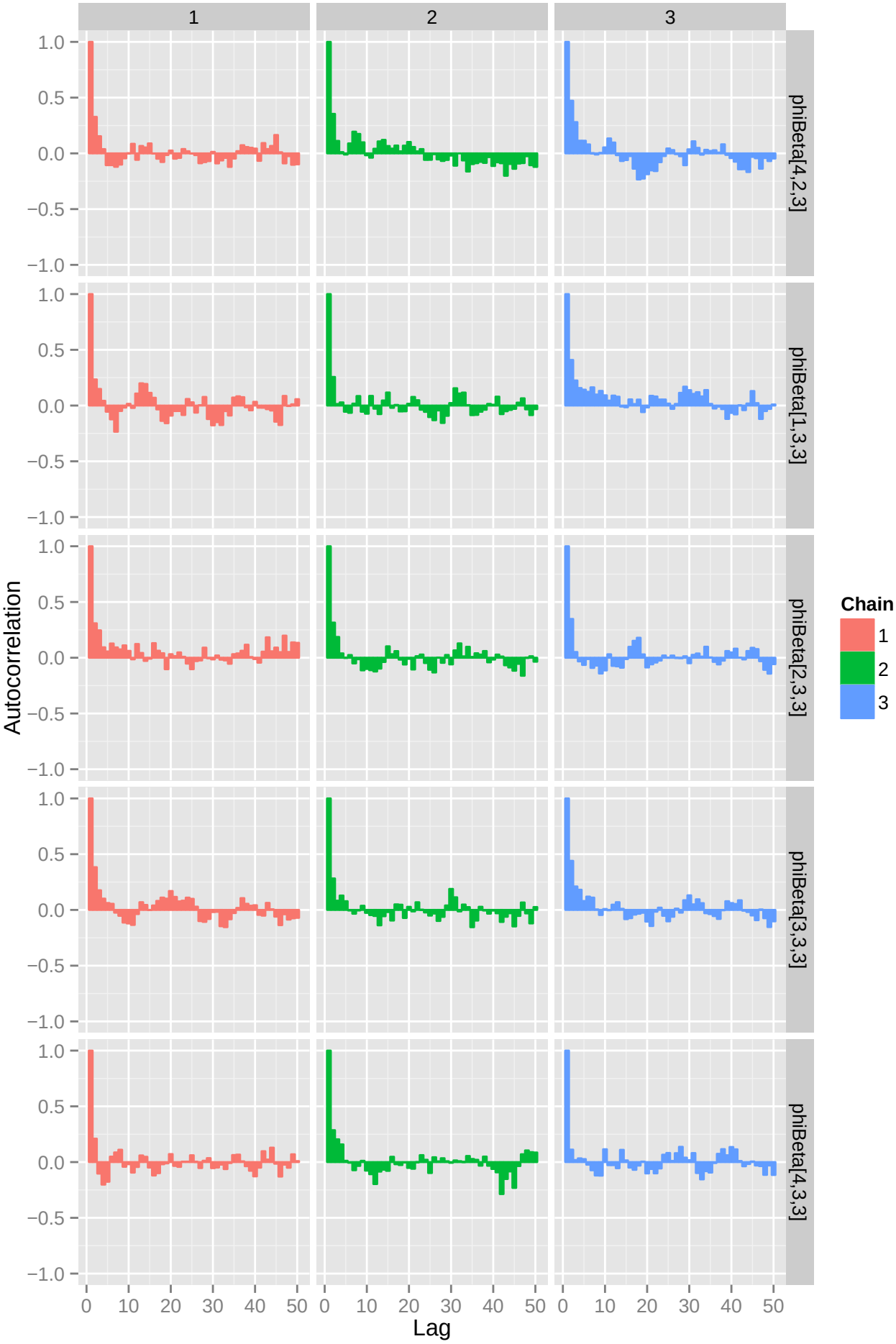
3
phiBeta[3,1,3]
phiBeta[4,1,3]
phiBeta[1,2,3]
phiBeta[2,2,3]
phiBeta[3,2,3]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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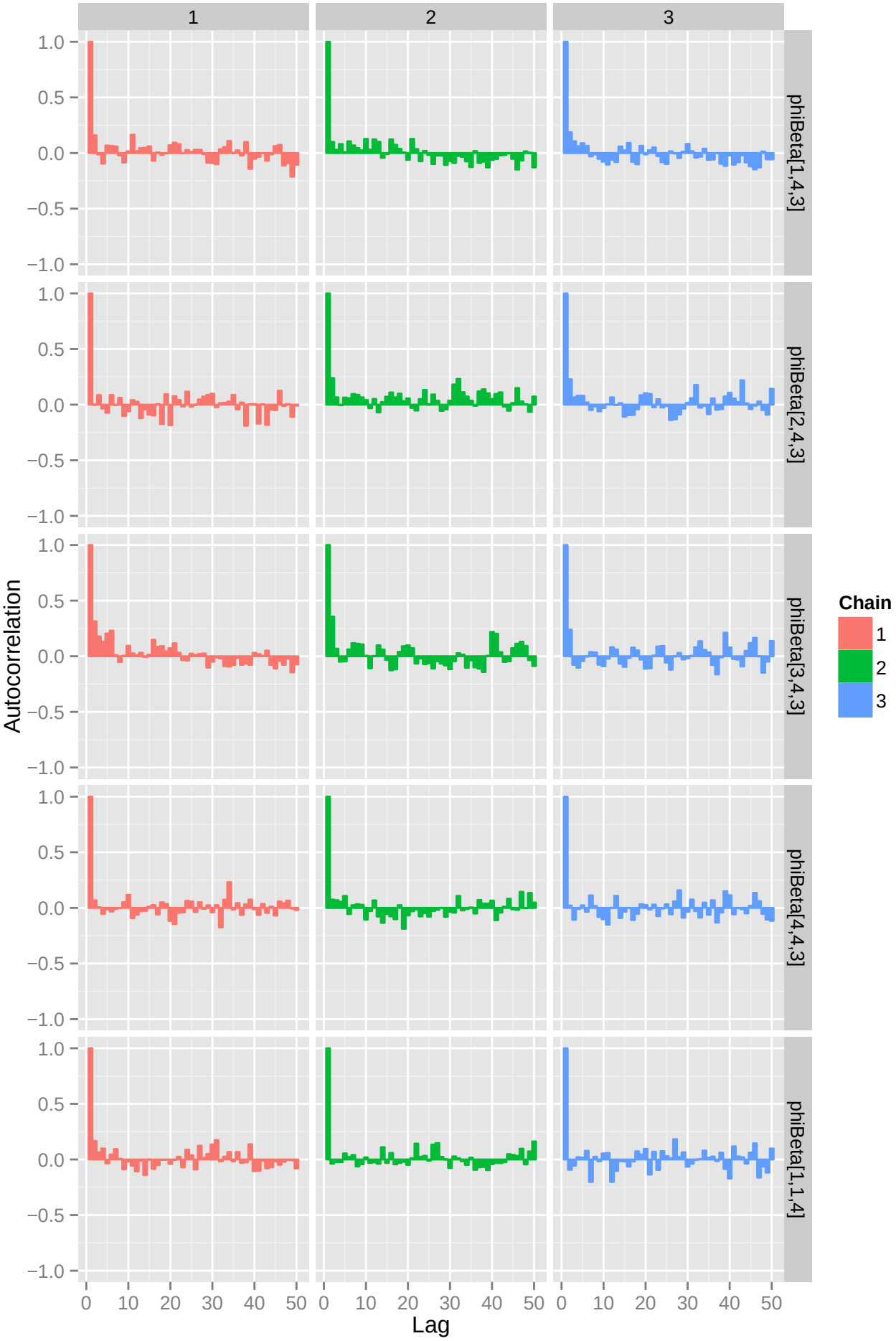
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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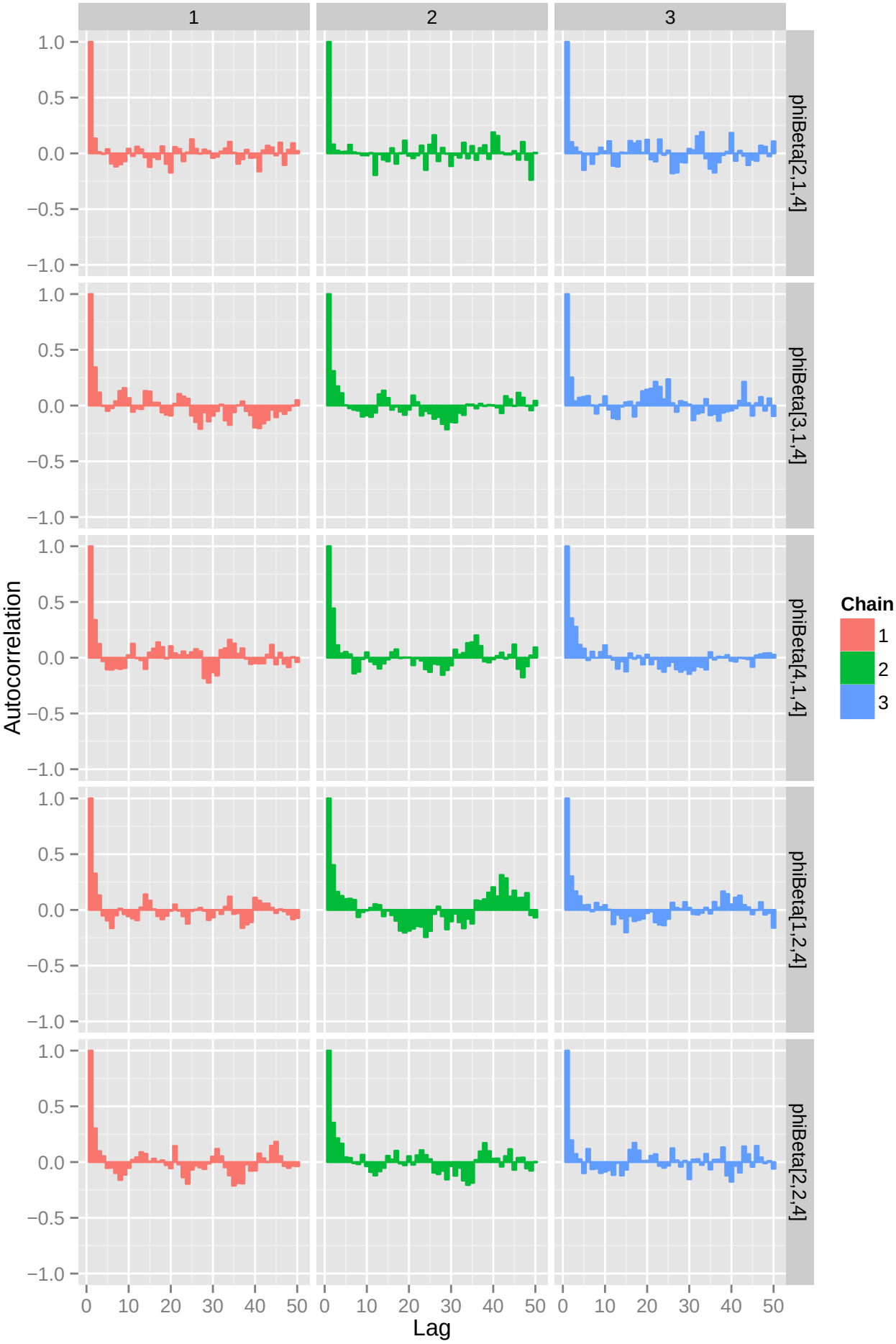
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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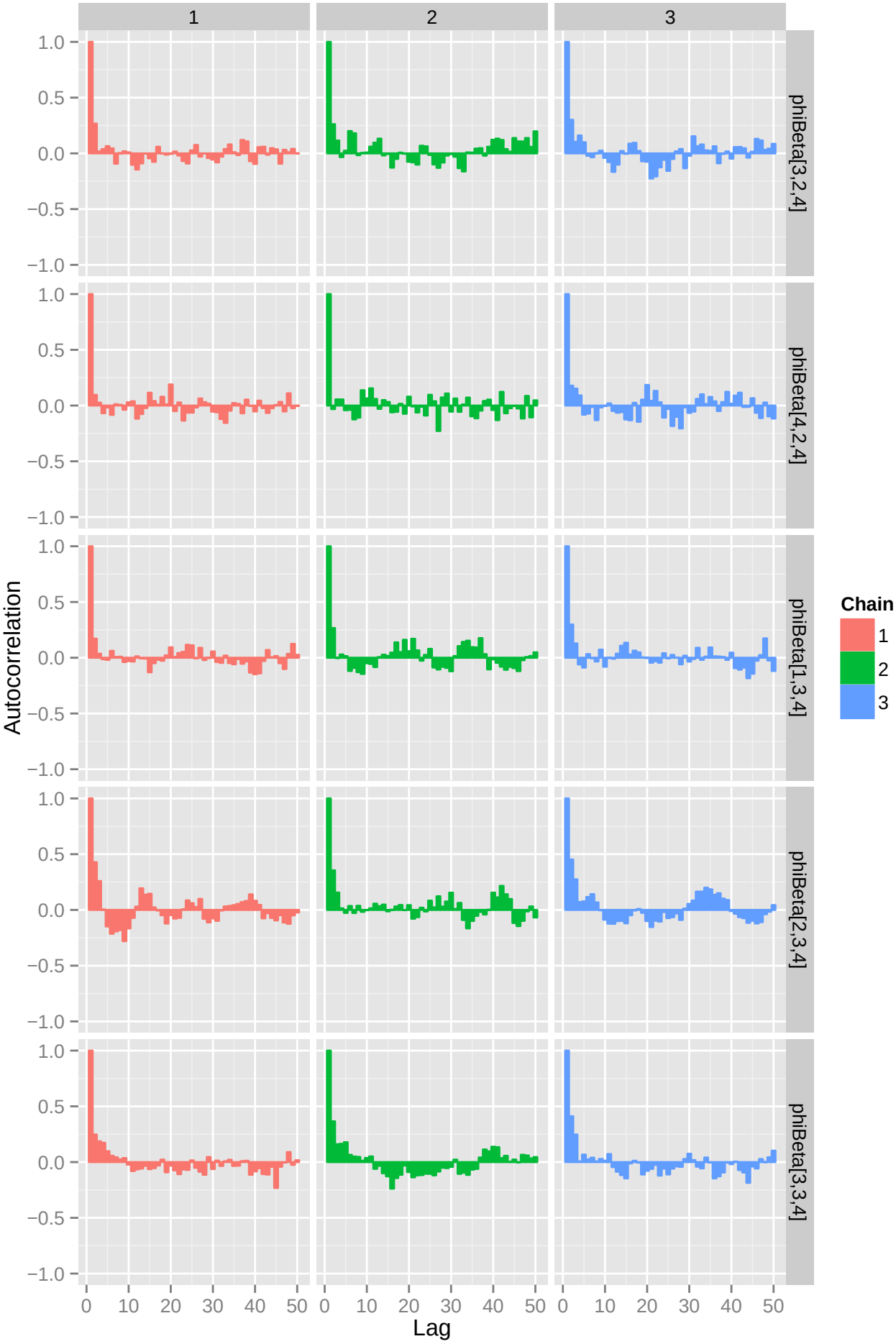
phiBeta[2,1,4]
phiBeta[3,1,4]
phiBeta[4,1,4]
phiBeta[1,2,4]
phiBeta[2,2,4]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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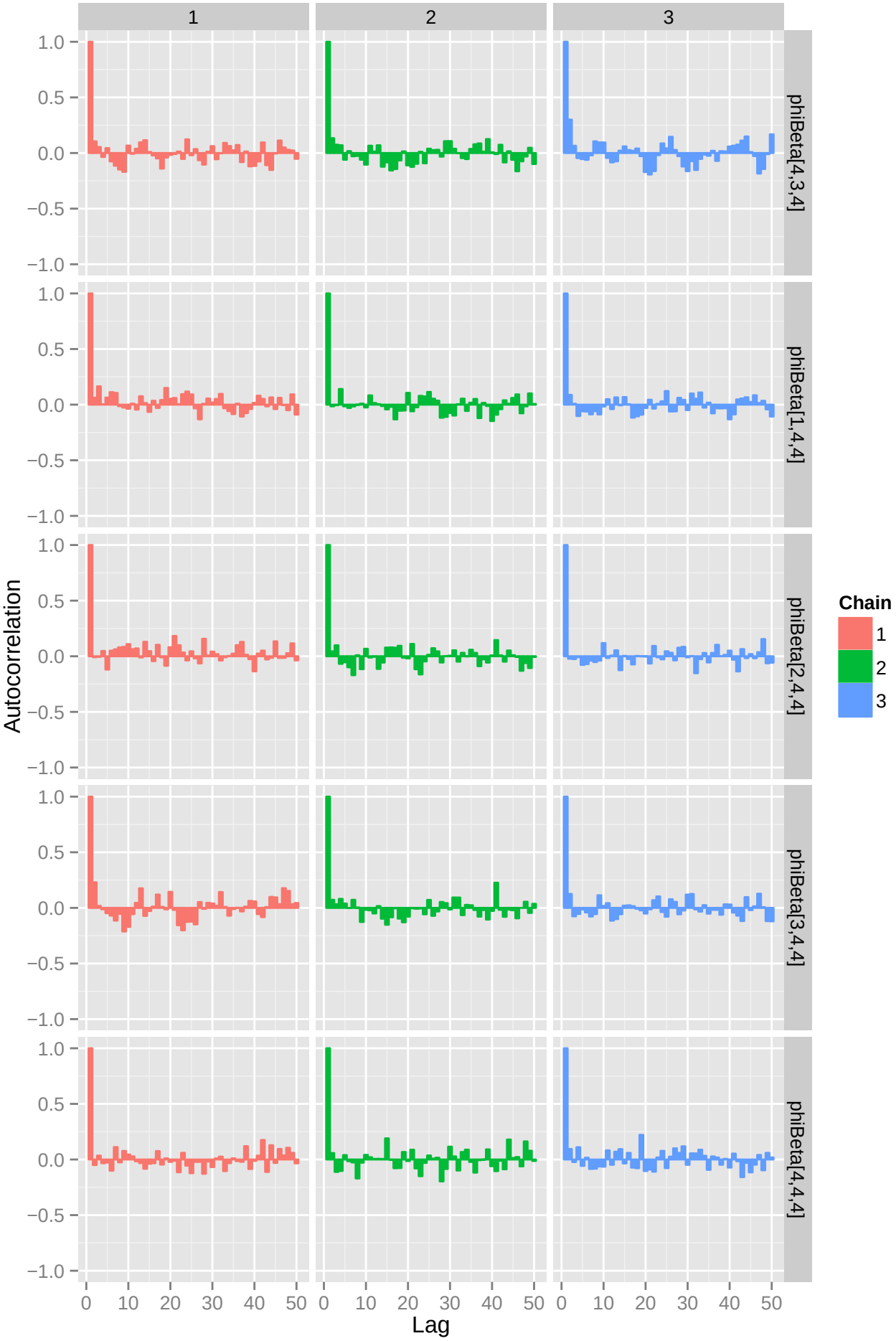
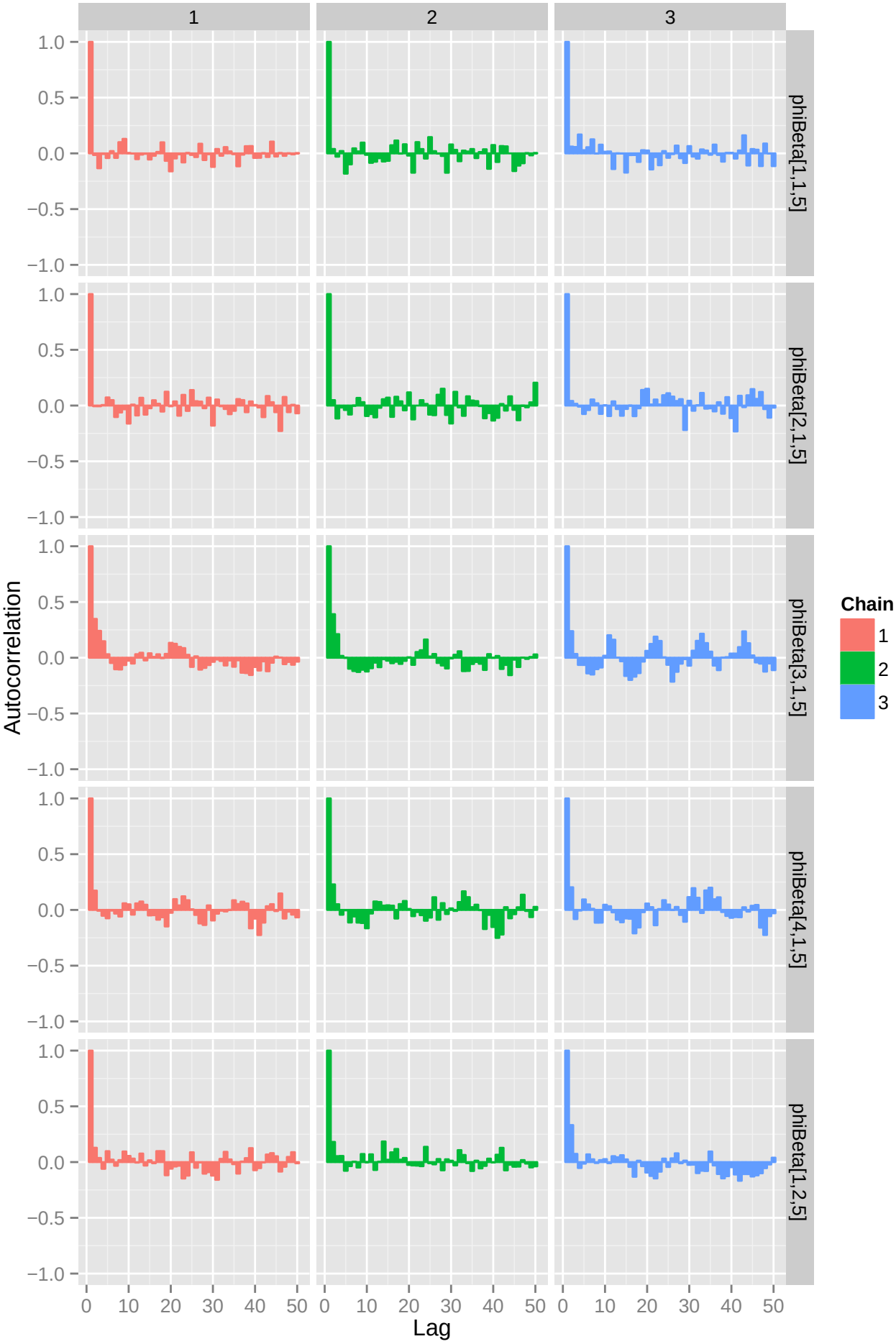
3
phiBeta[3,2,4]
phiBeta[4,2,4]
phiBeta[1,3,4]
phiBeta[2,3,4]
phiBeta[3,3,4]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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


1
2
3
phiBeta[1,1,5]
phiBeta[2,1,5]
phiBeta[3,1,5]
phiBeta[4,1,5]
phiBeta[1,2,5]
Autocorrelation
1.0
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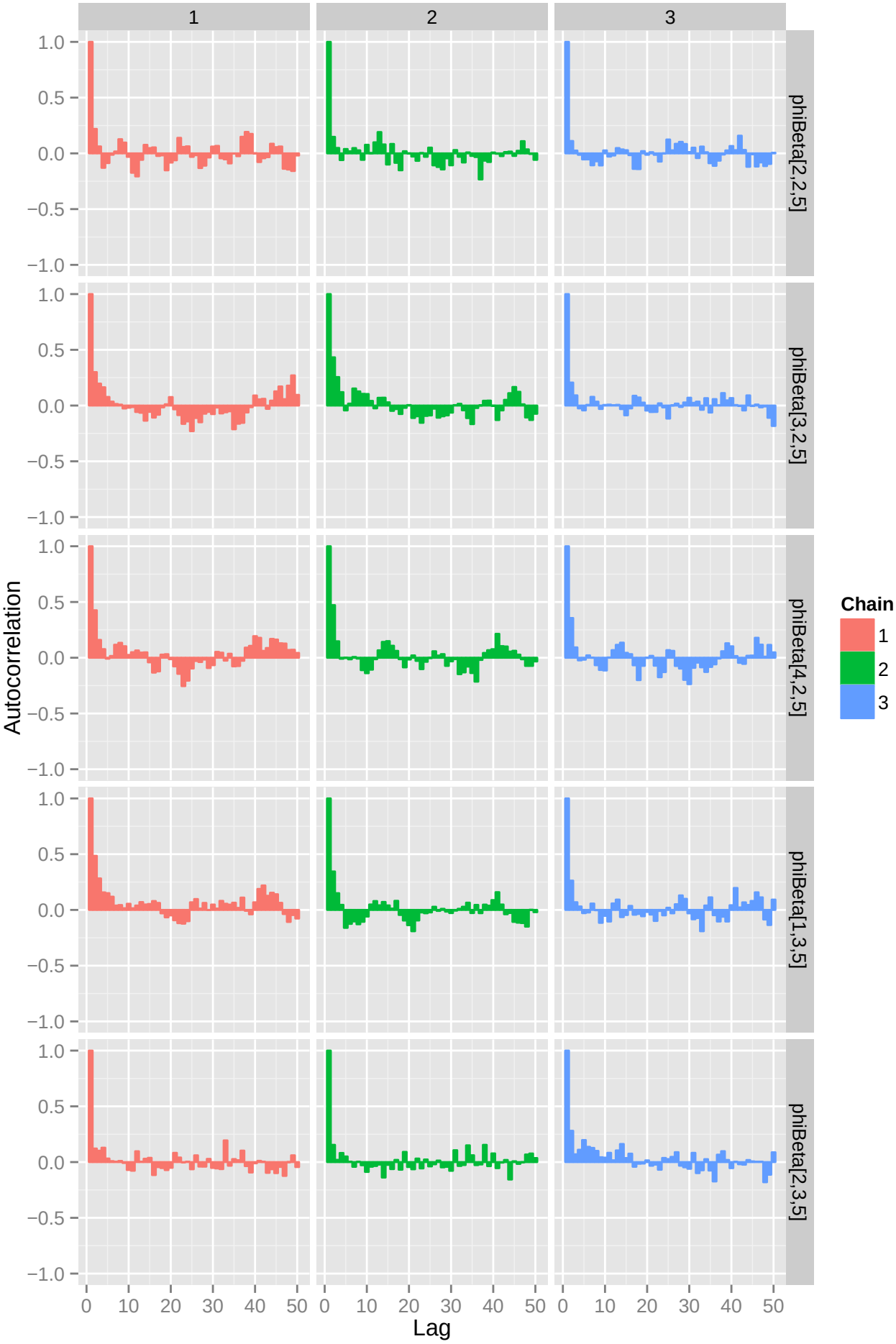
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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phiBeta[4,2,5]
phiBeta[1,3,5]
phiBeta[2,3,5]
Autocorrelation
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−0.5
−1.0
0
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20
30
40
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Lag
Chain
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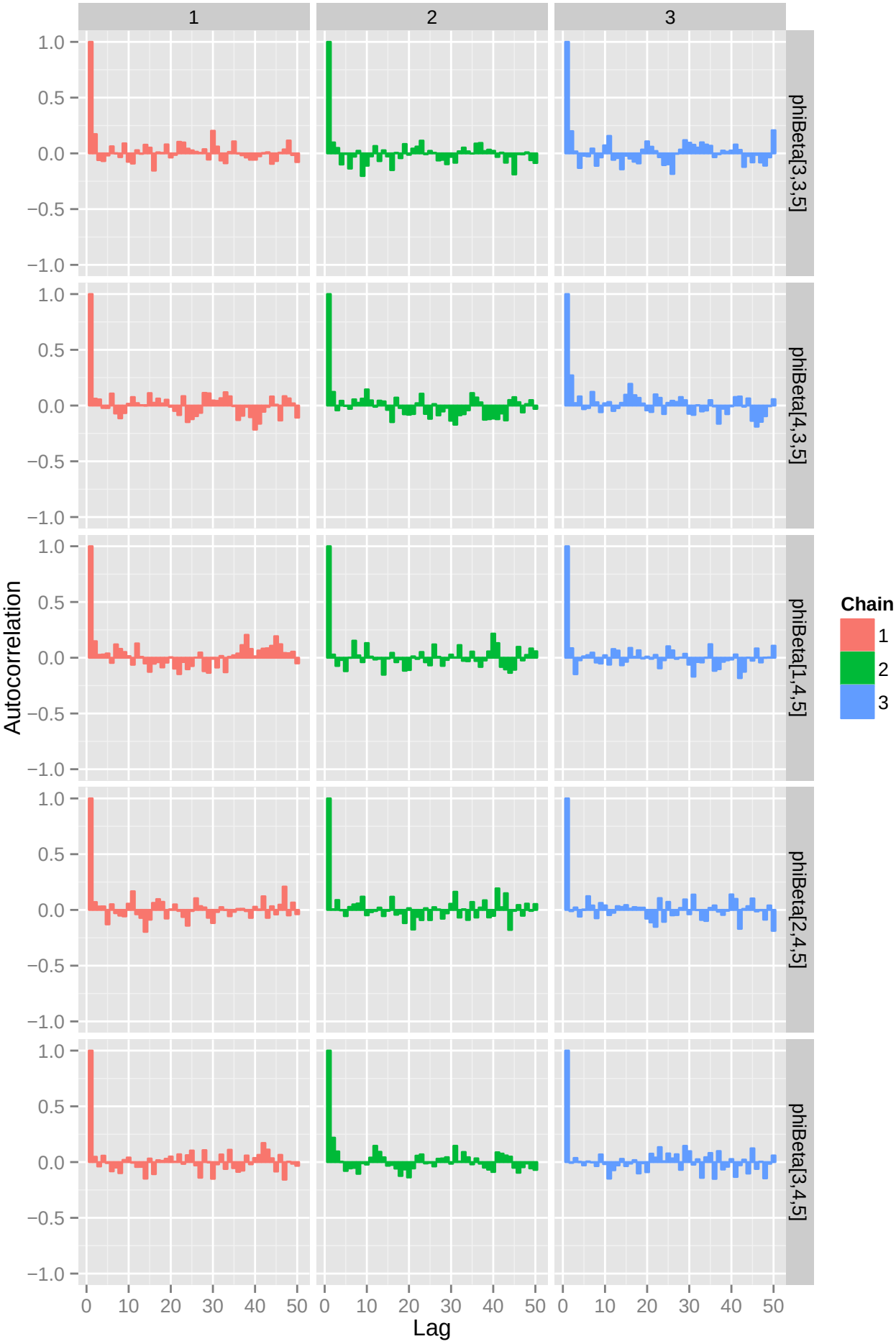
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phiBeta[1,4,5]
phiBeta[2,4,5]
phiBeta[3,4,5]
Autocorrelation
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0.0
−0.5
−1.0
0
10
20
30
40
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Lag
Chain
1
2
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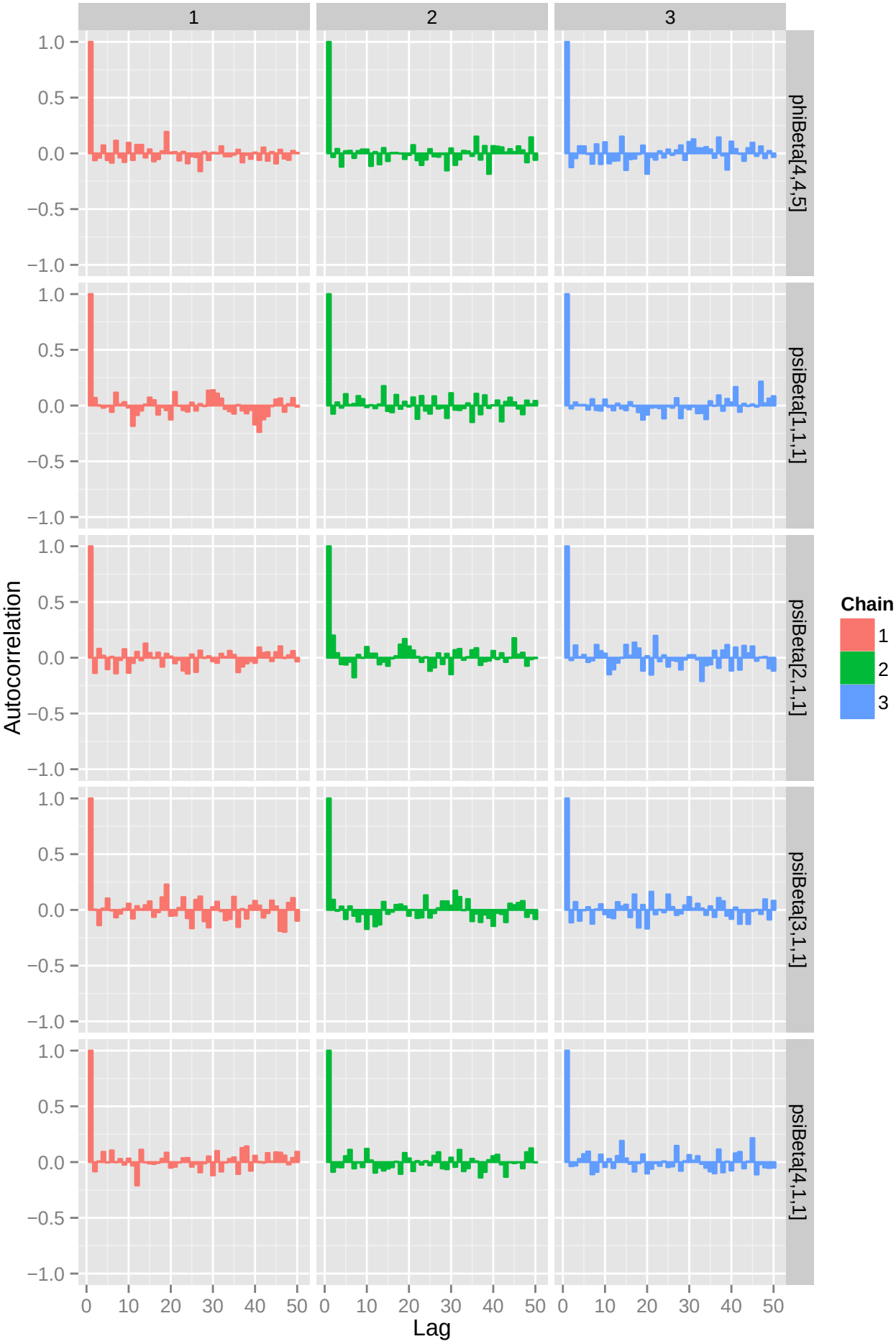
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psiBeta[2,1,1]
psiBeta[3,1,1]
psiBeta[4,1,1]
Autocorrelation
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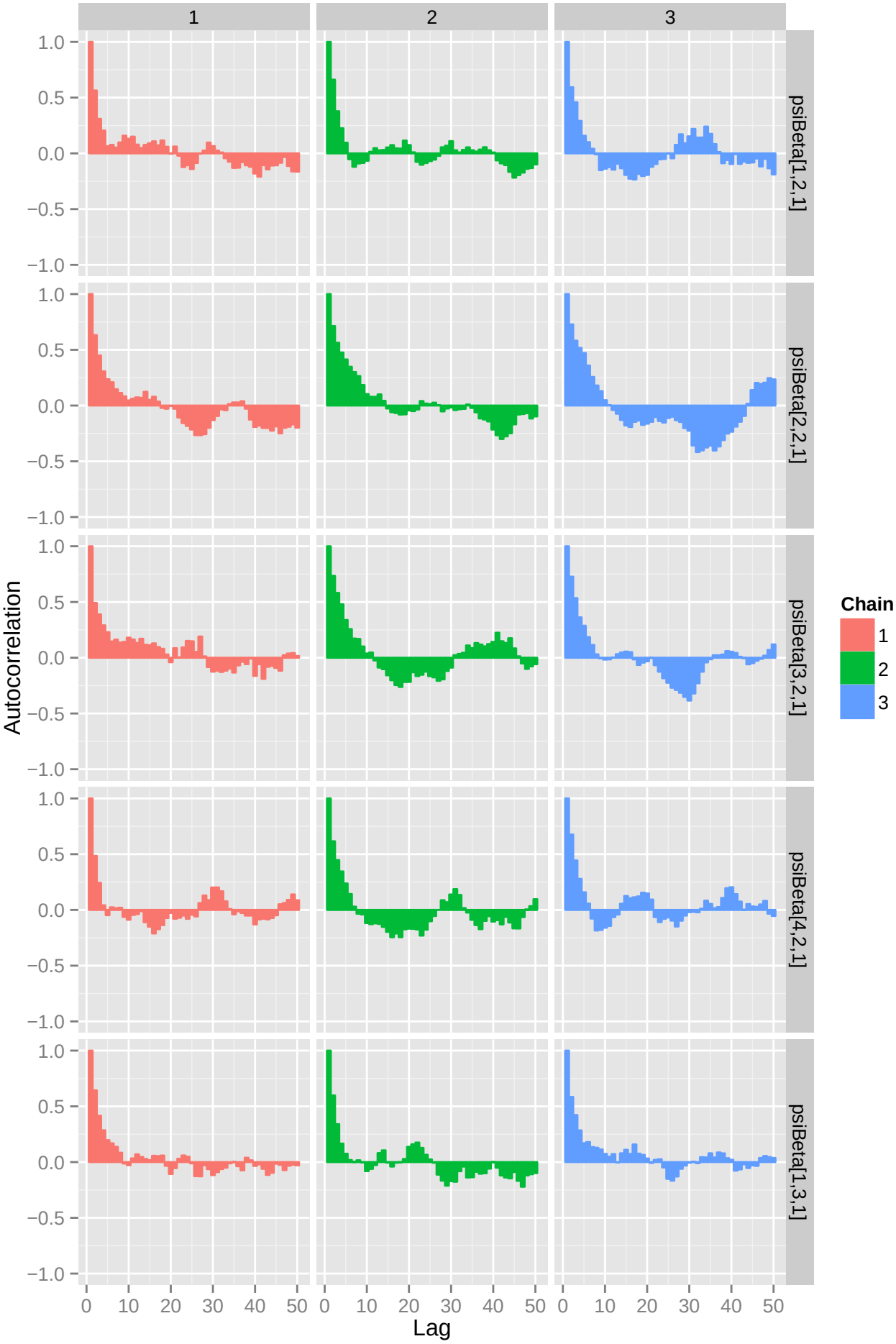
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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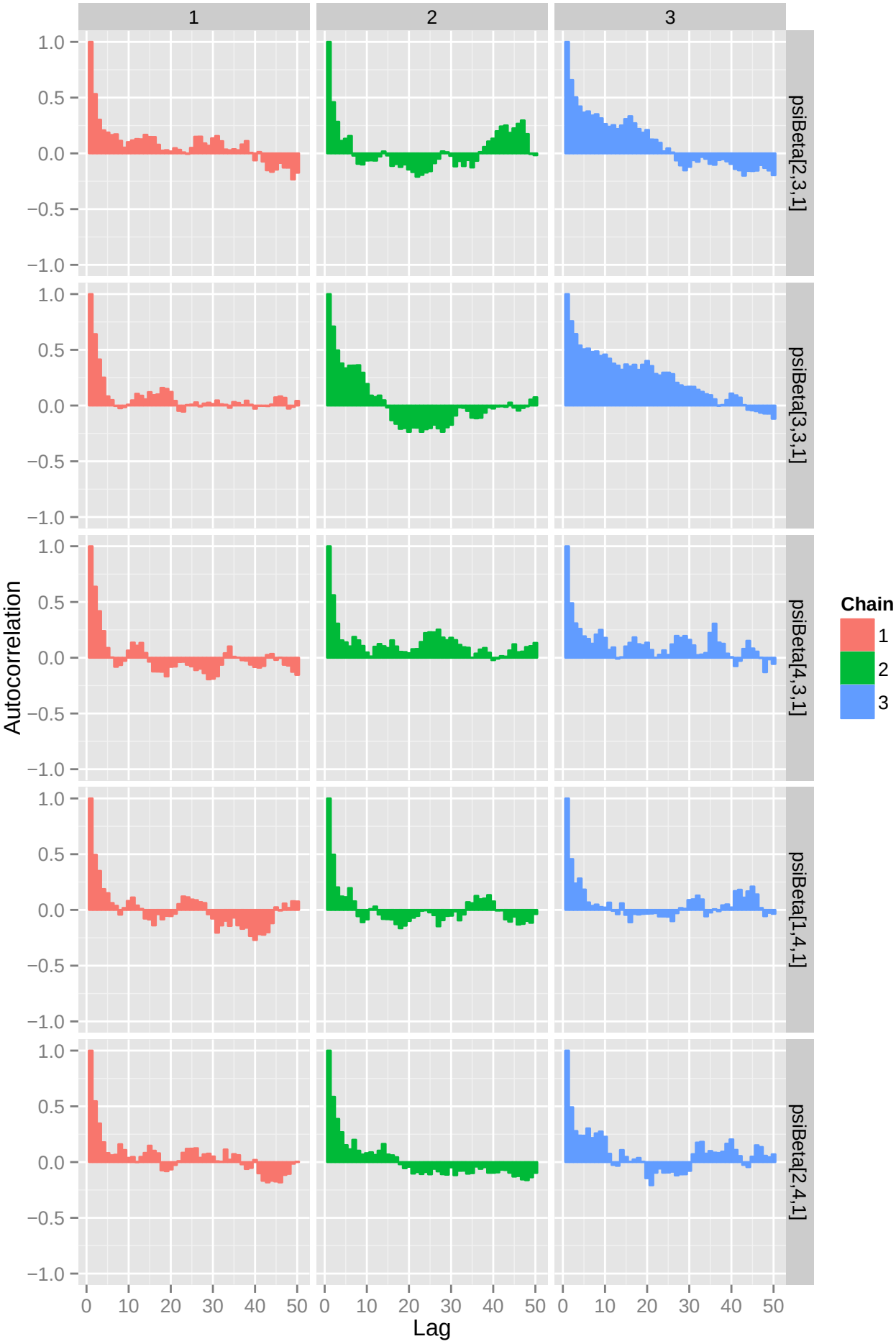
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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psiBeta[2,3,1]
psiBeta[3,3,1]
psiBeta[4,3,1]
psiBeta[1,4,1]
psiBeta[2,4,1]
Autocorrelation
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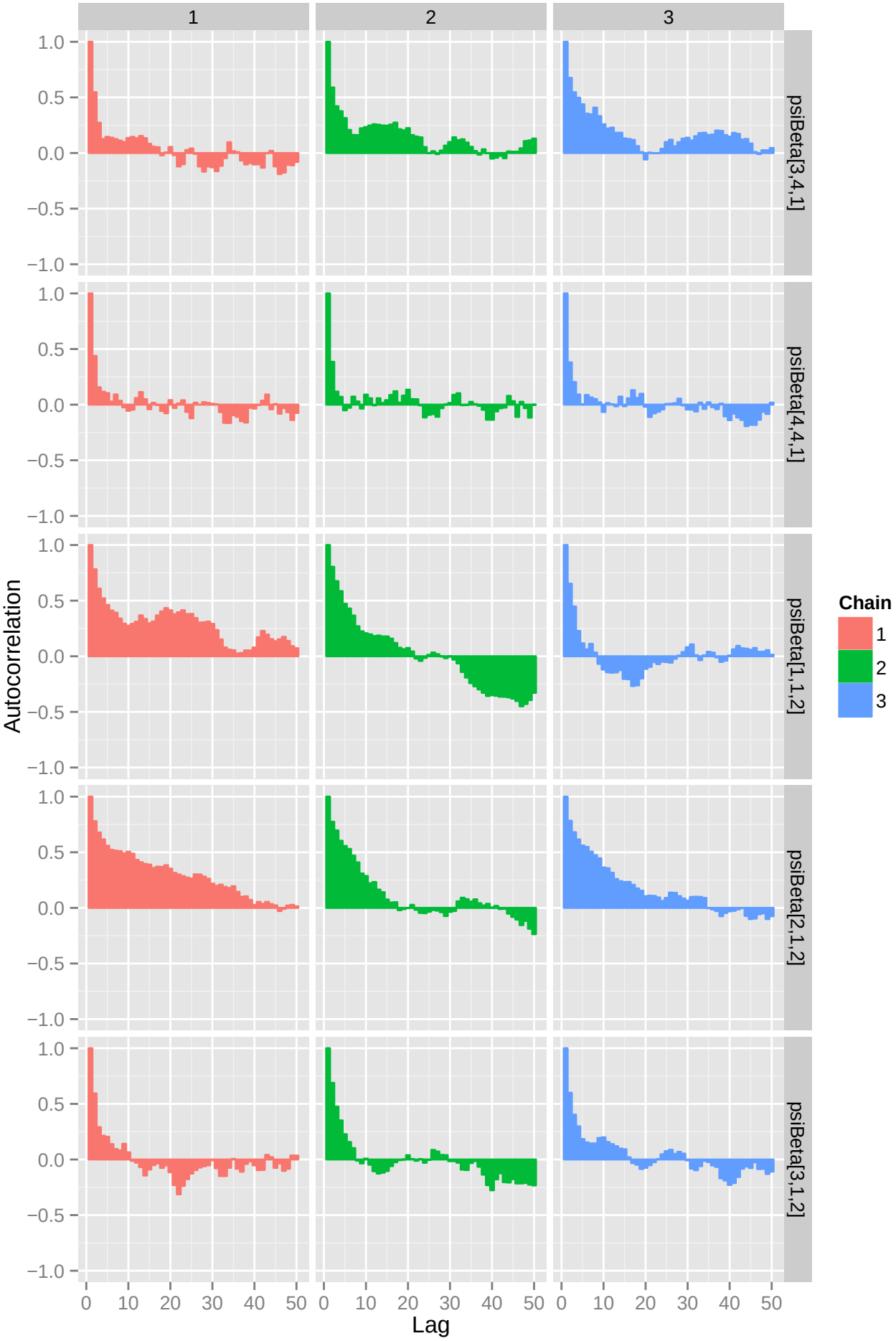
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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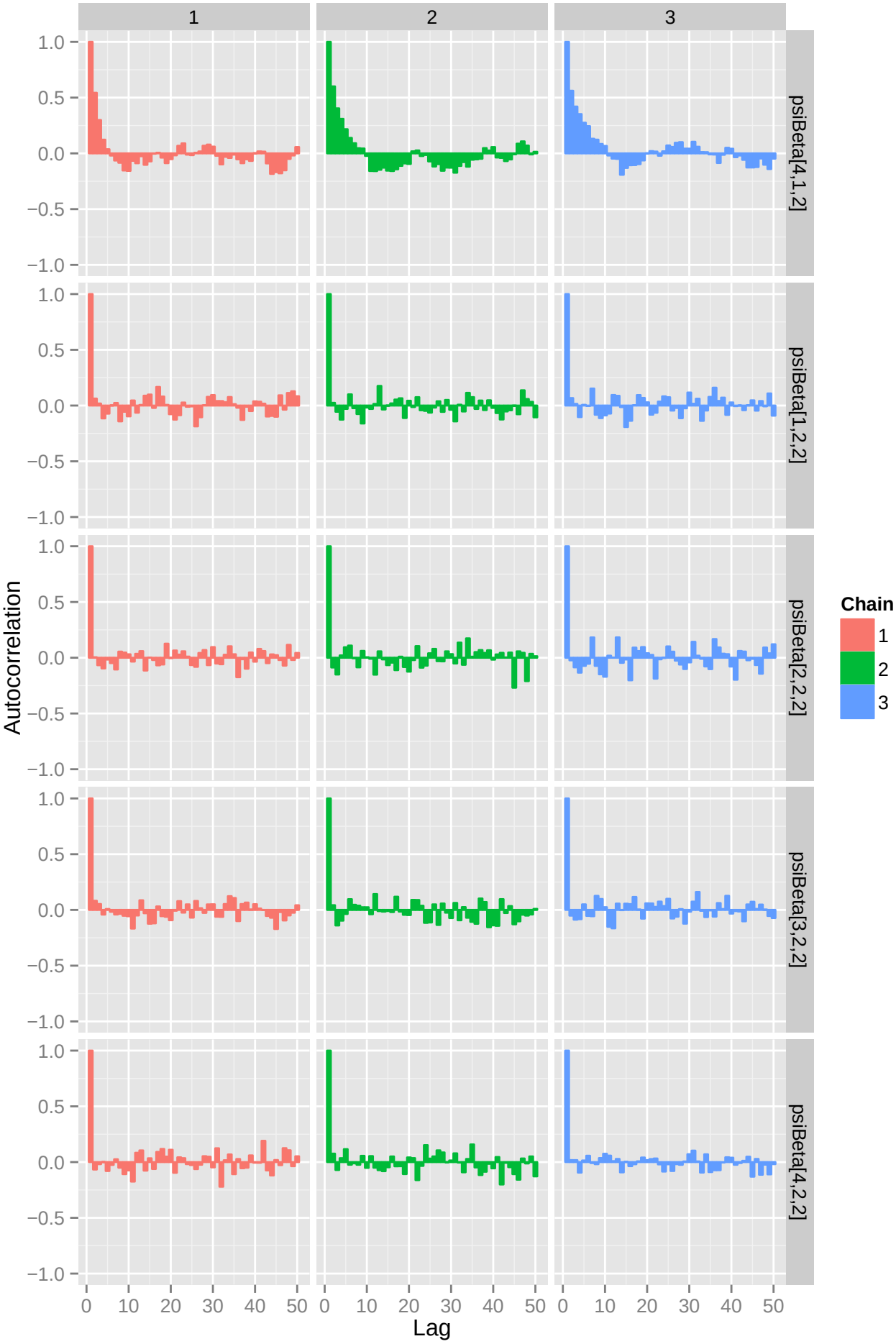
2
3
psiBeta[3,4,1]
psiBeta[4,4,1]
psiBeta[1,1,2]
psiBeta[2,1,2]
psiBeta[3,1,2]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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3
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psiBeta[1,2,2]
psiBeta[2,2,2]
psiBeta[3,2,2]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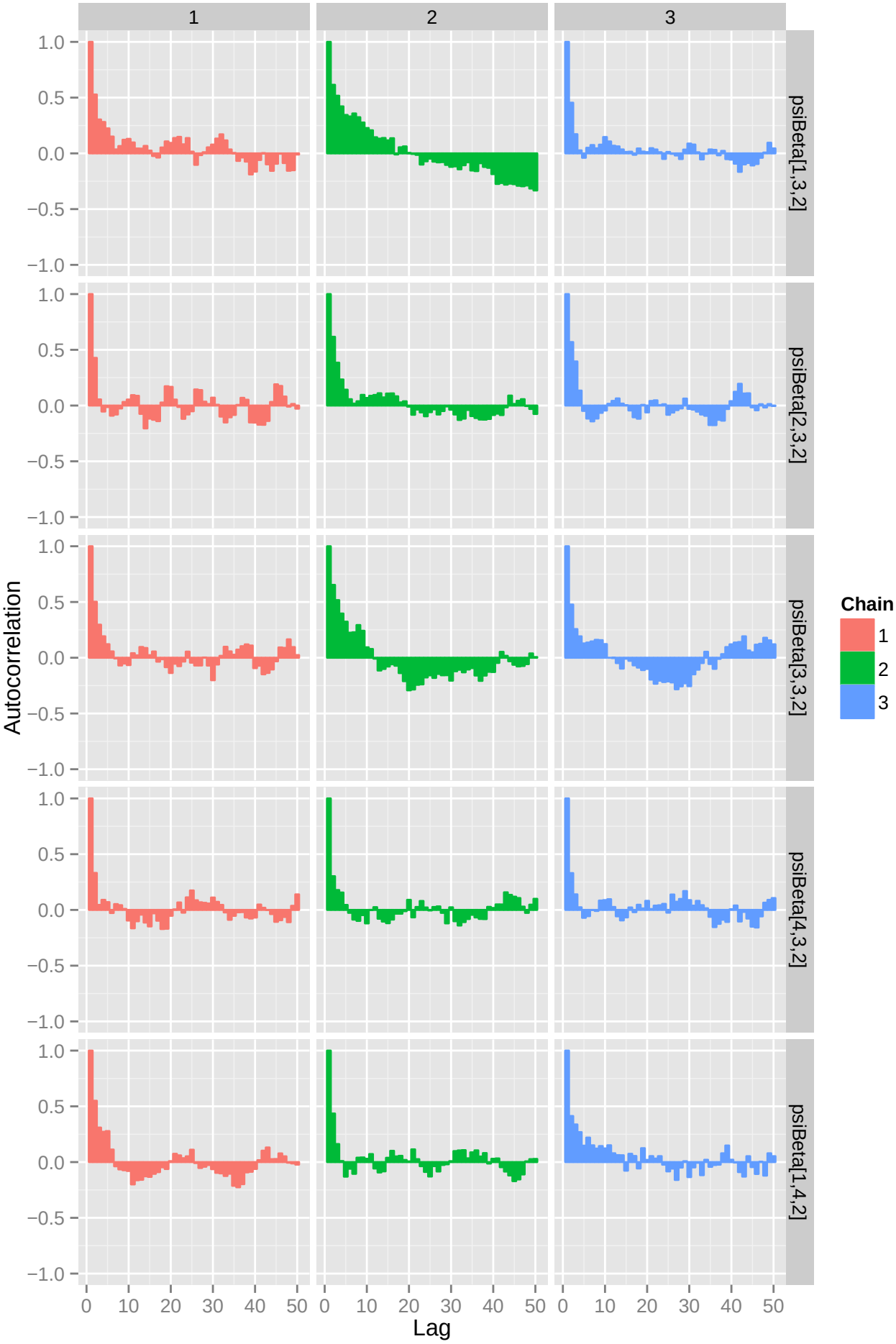
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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psiBeta[3,3,2]
psiBeta[4,3,2]
psiBeta[1,4,2]
Autocorrelation
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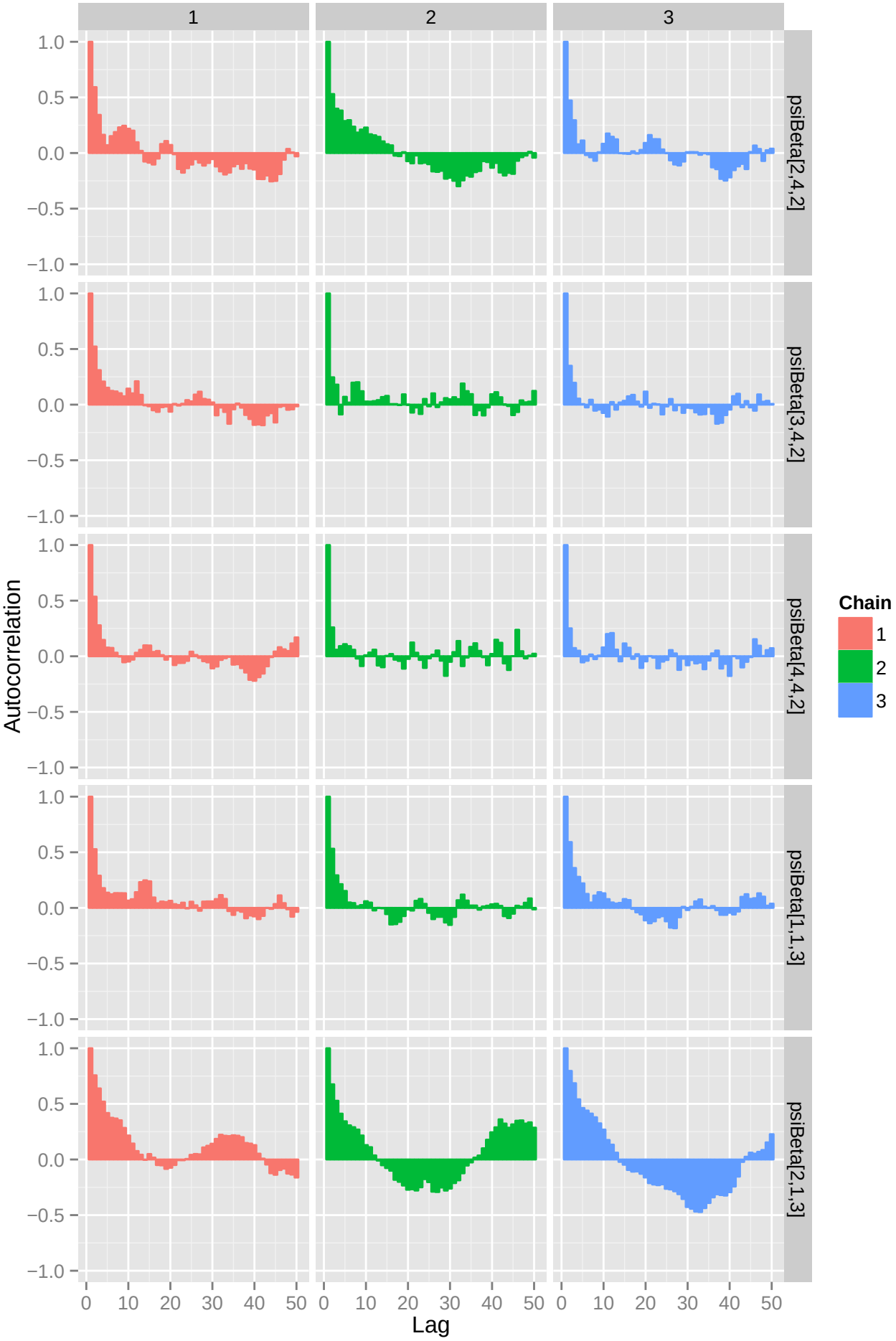
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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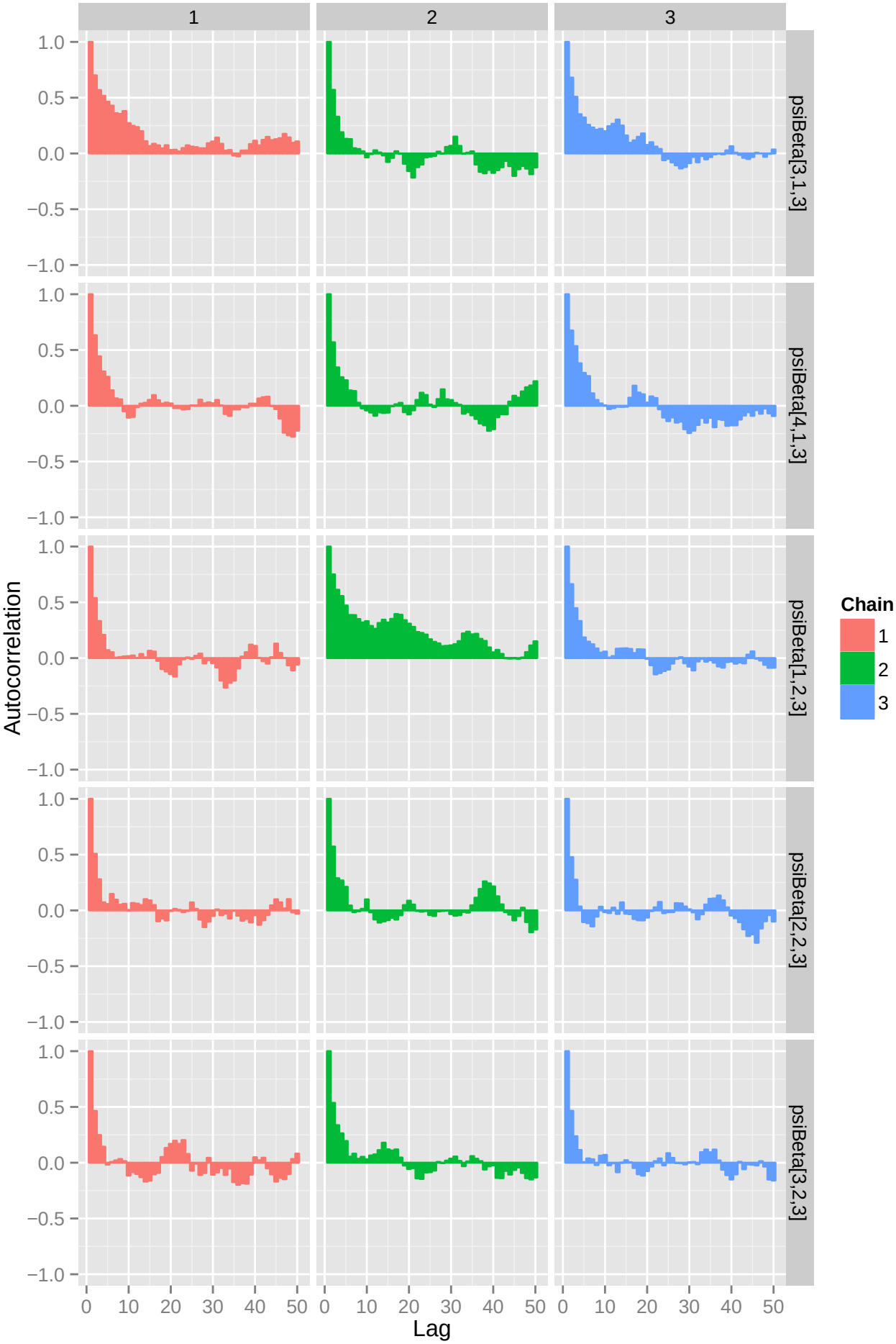
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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3
psiBeta[3,1,3]
psiBeta[4,1,3]
psiBeta[1,2,3]
psiBeta[2,2,3]
psiBeta[3,2,3]
Autocorrelation
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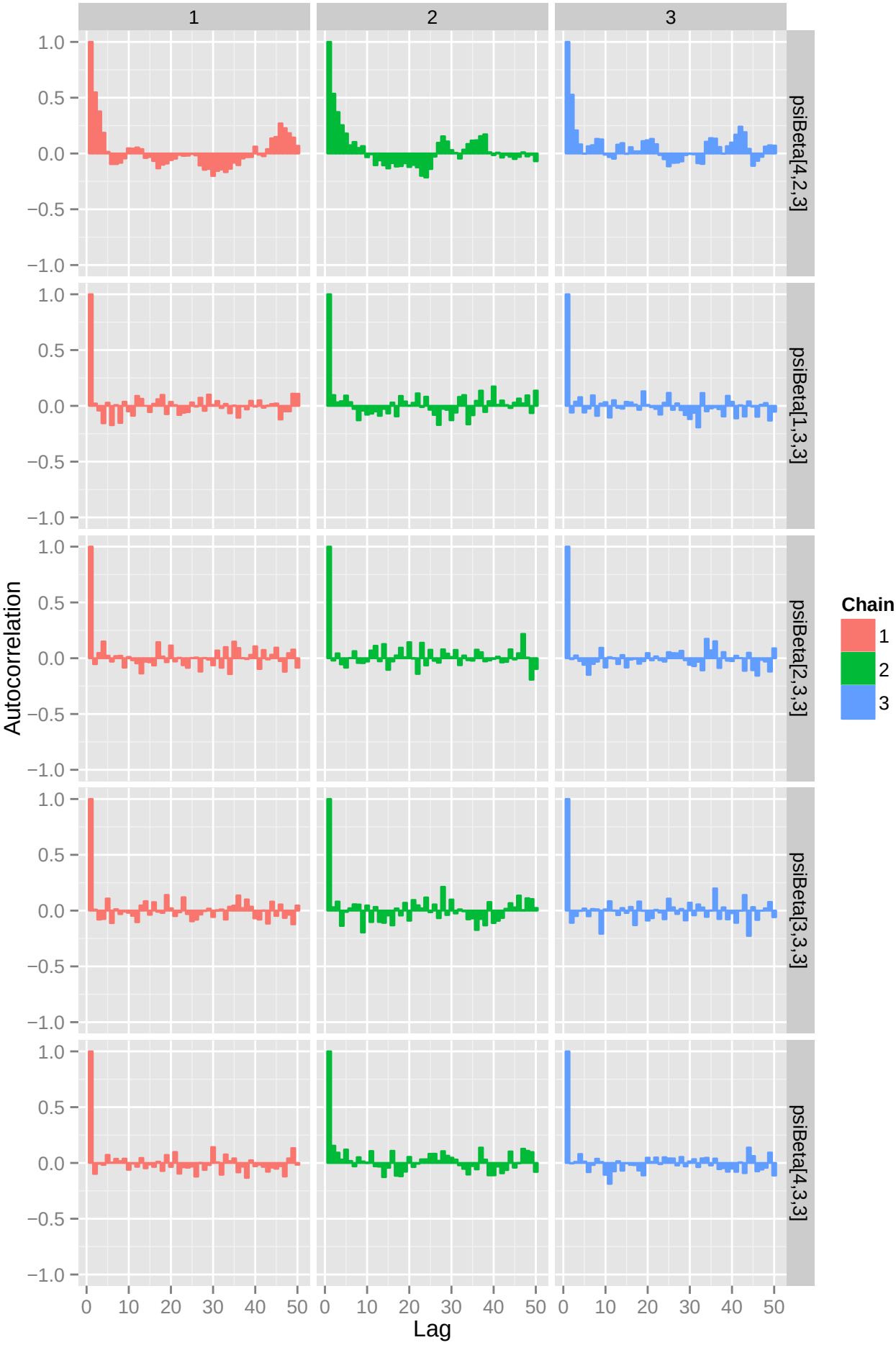
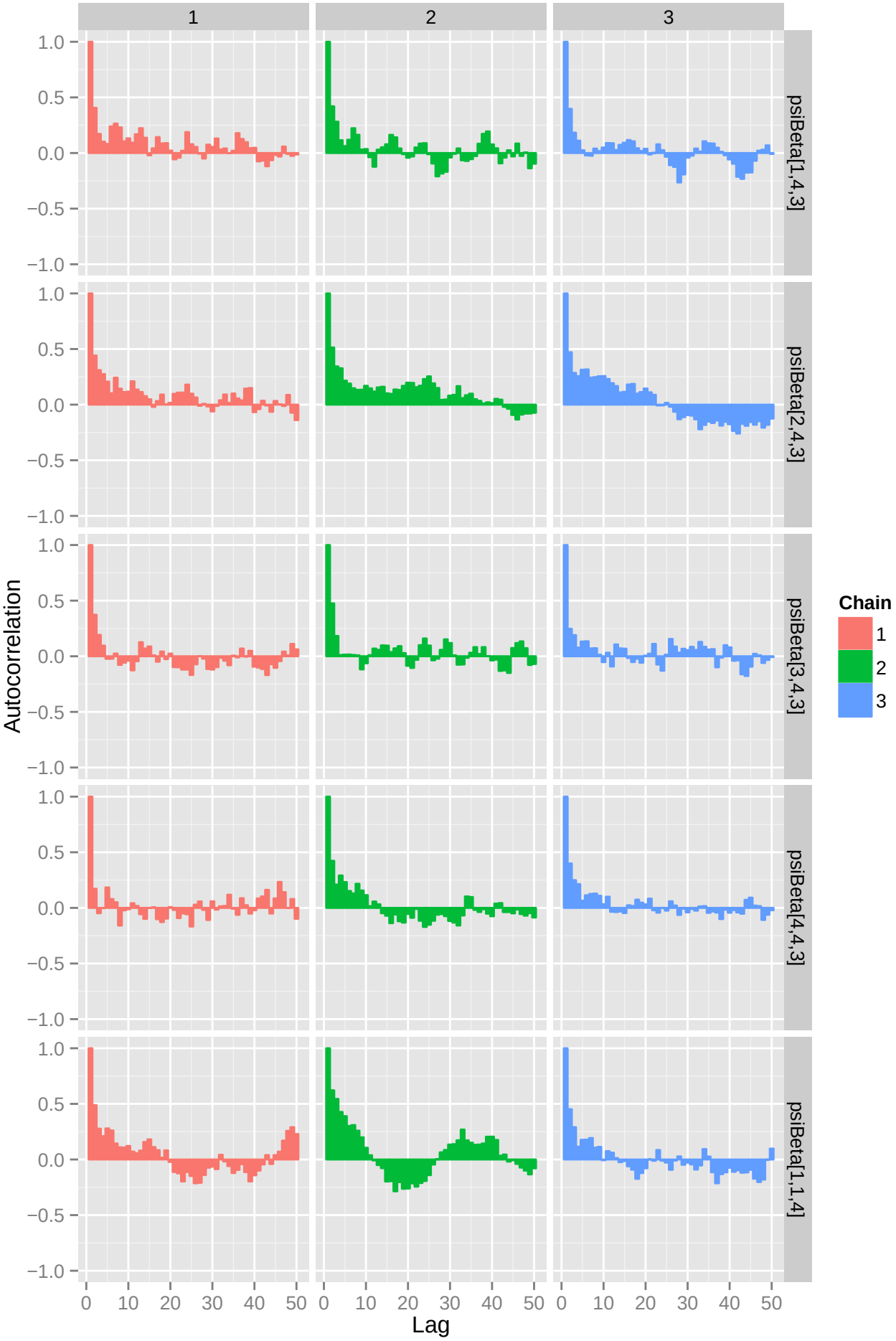
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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


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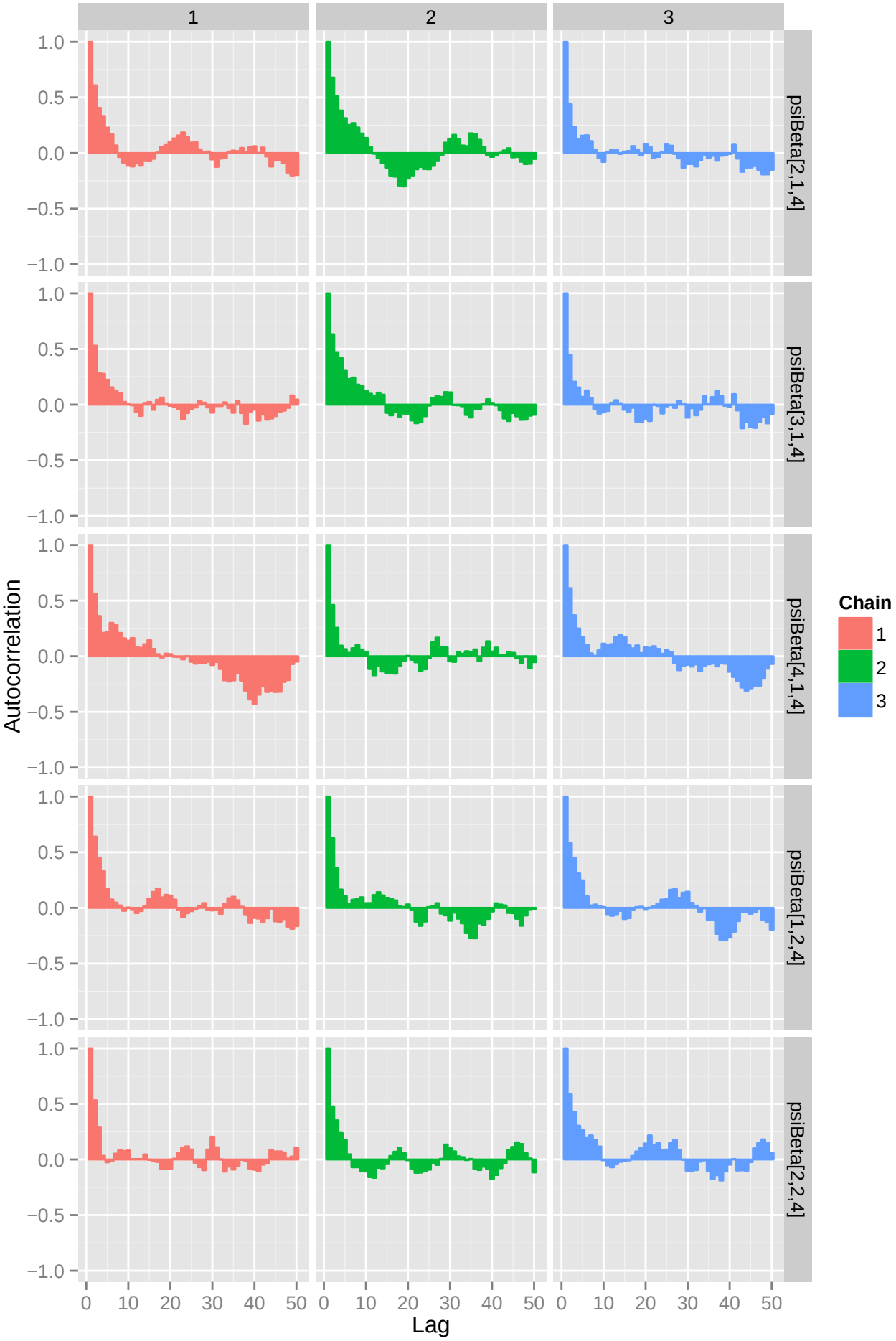
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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2
3
psiBeta[2,1,4]
psiBeta[3,1,4]
psiBeta[4,1,4]
psiBeta[1,2,4]
psiBeta[2,2,4]
Autocorrelation
1.0
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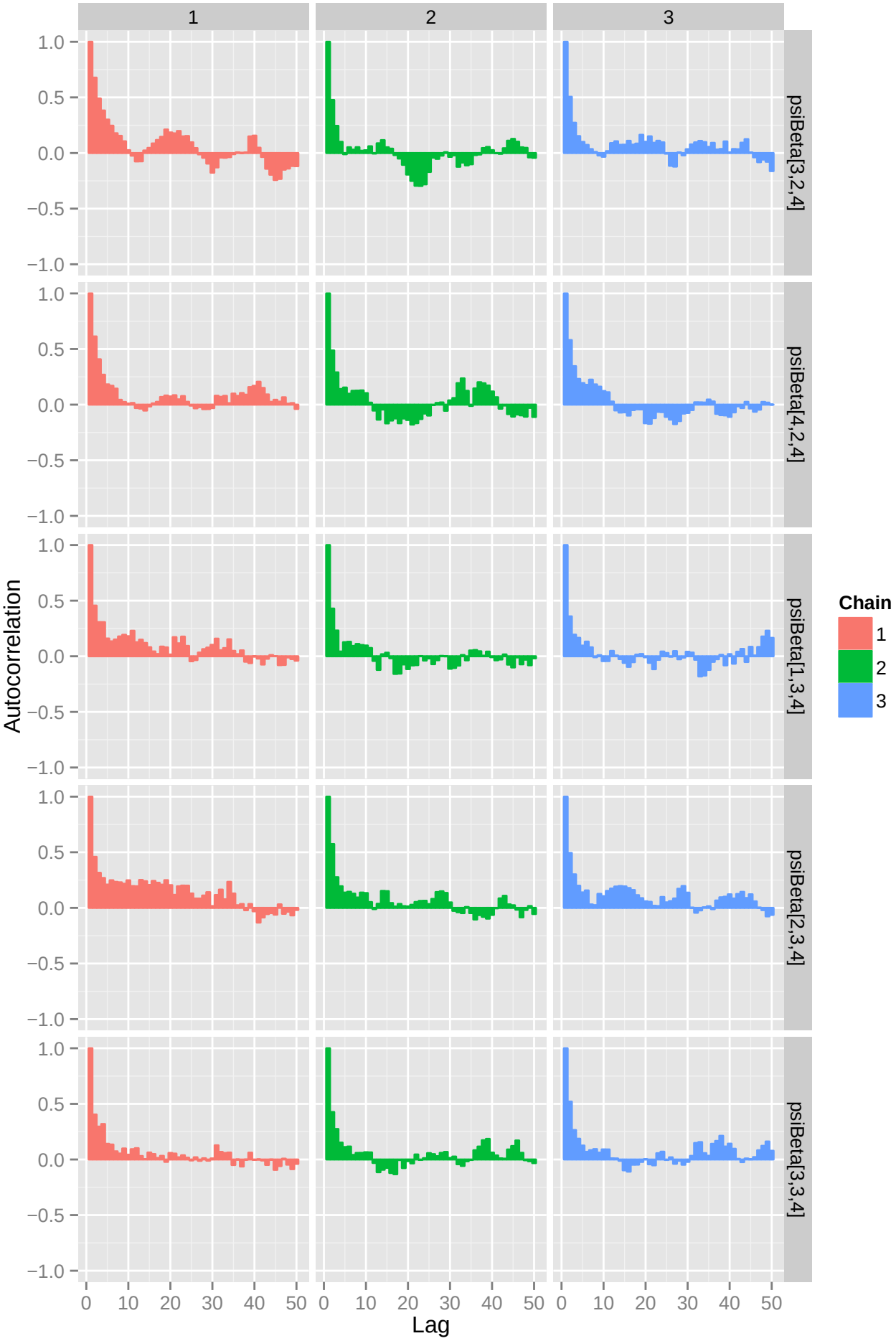
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3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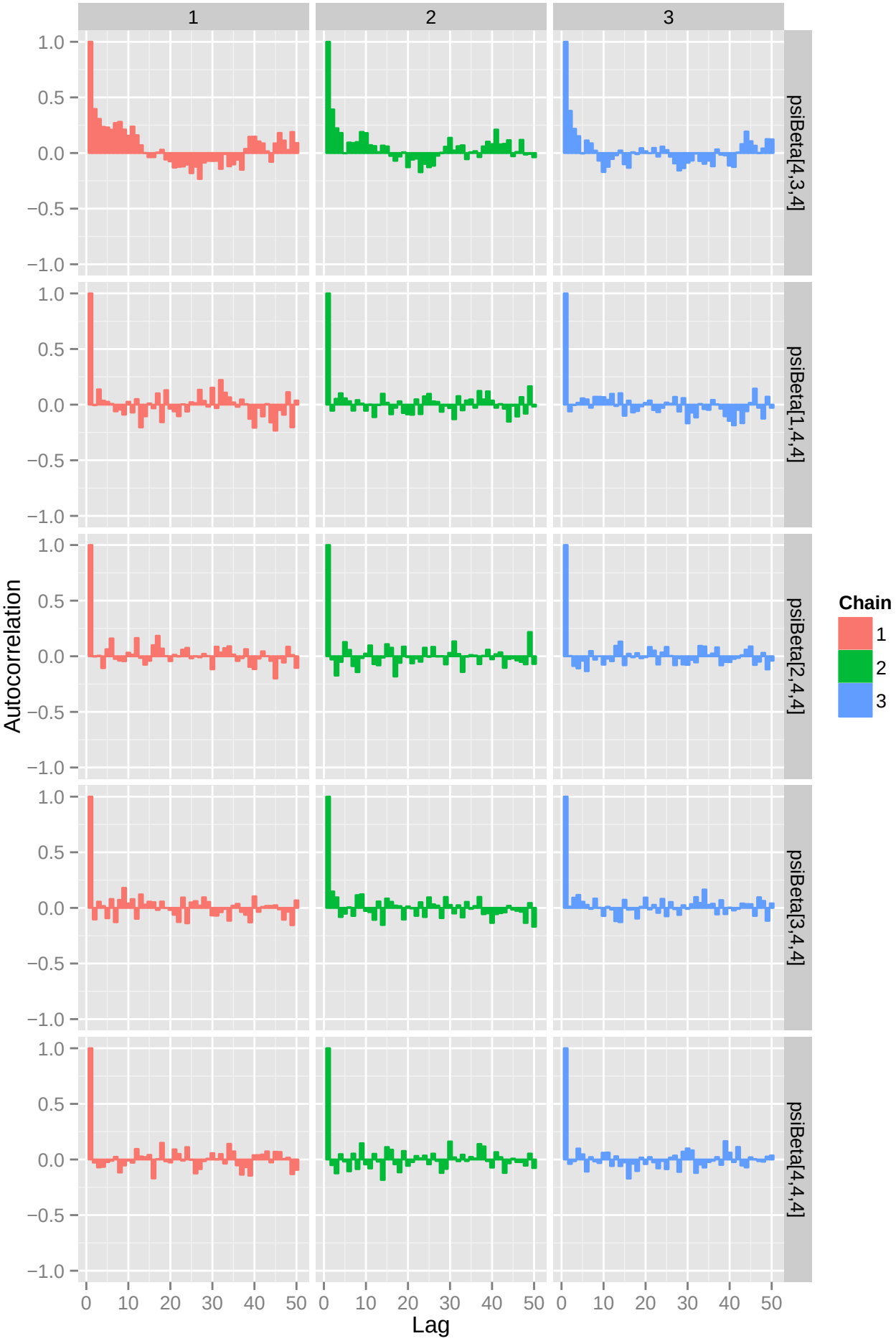
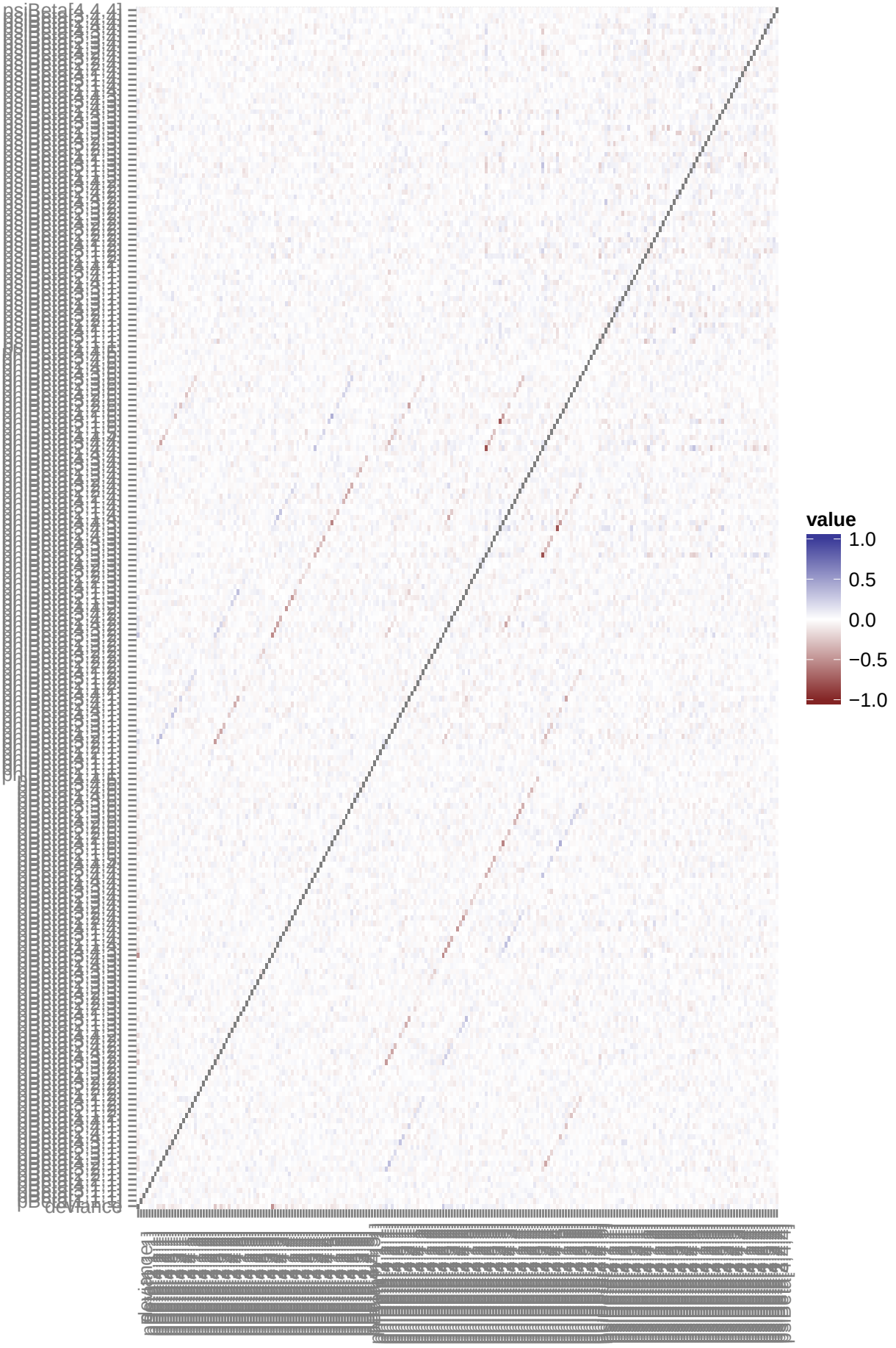
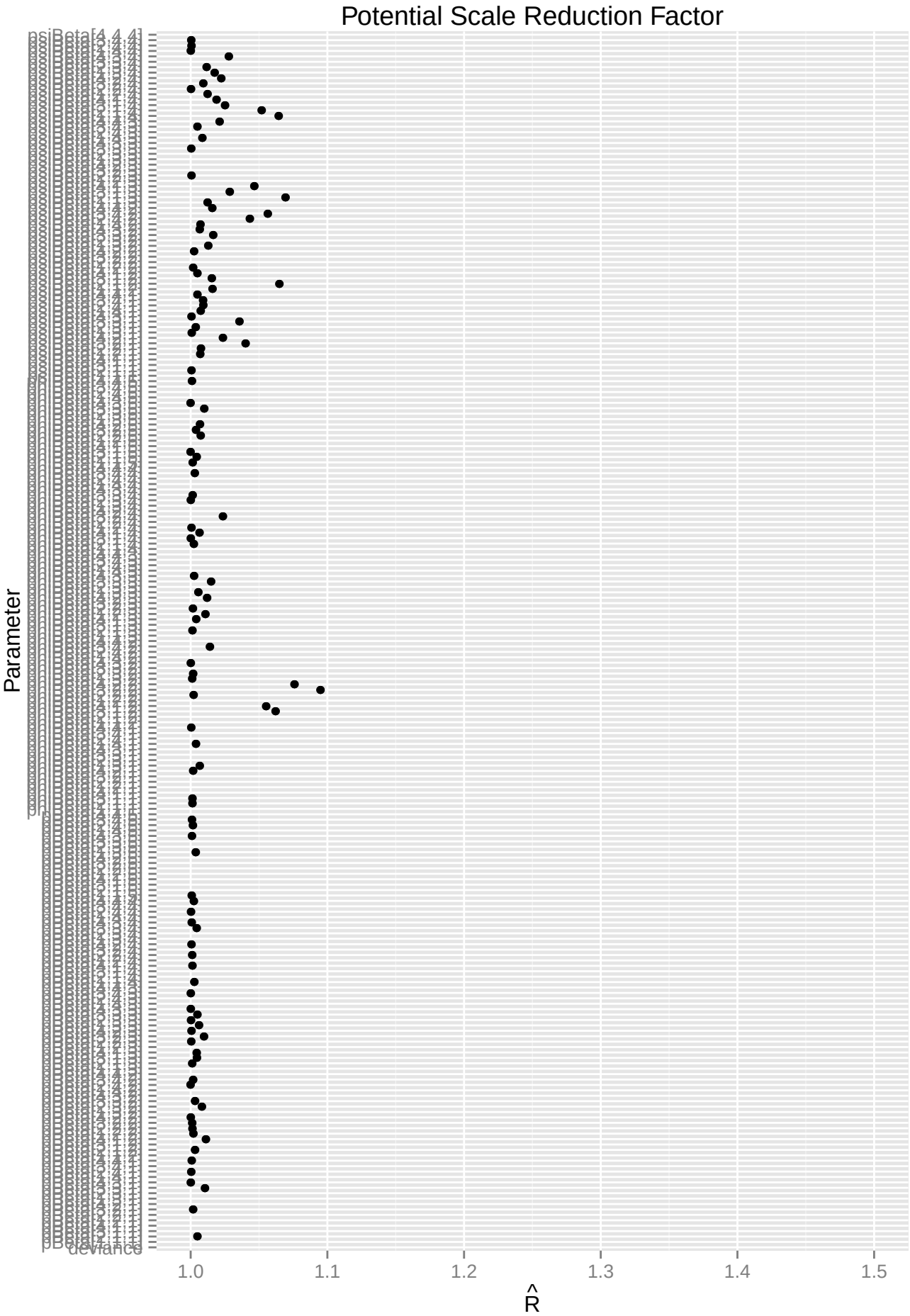
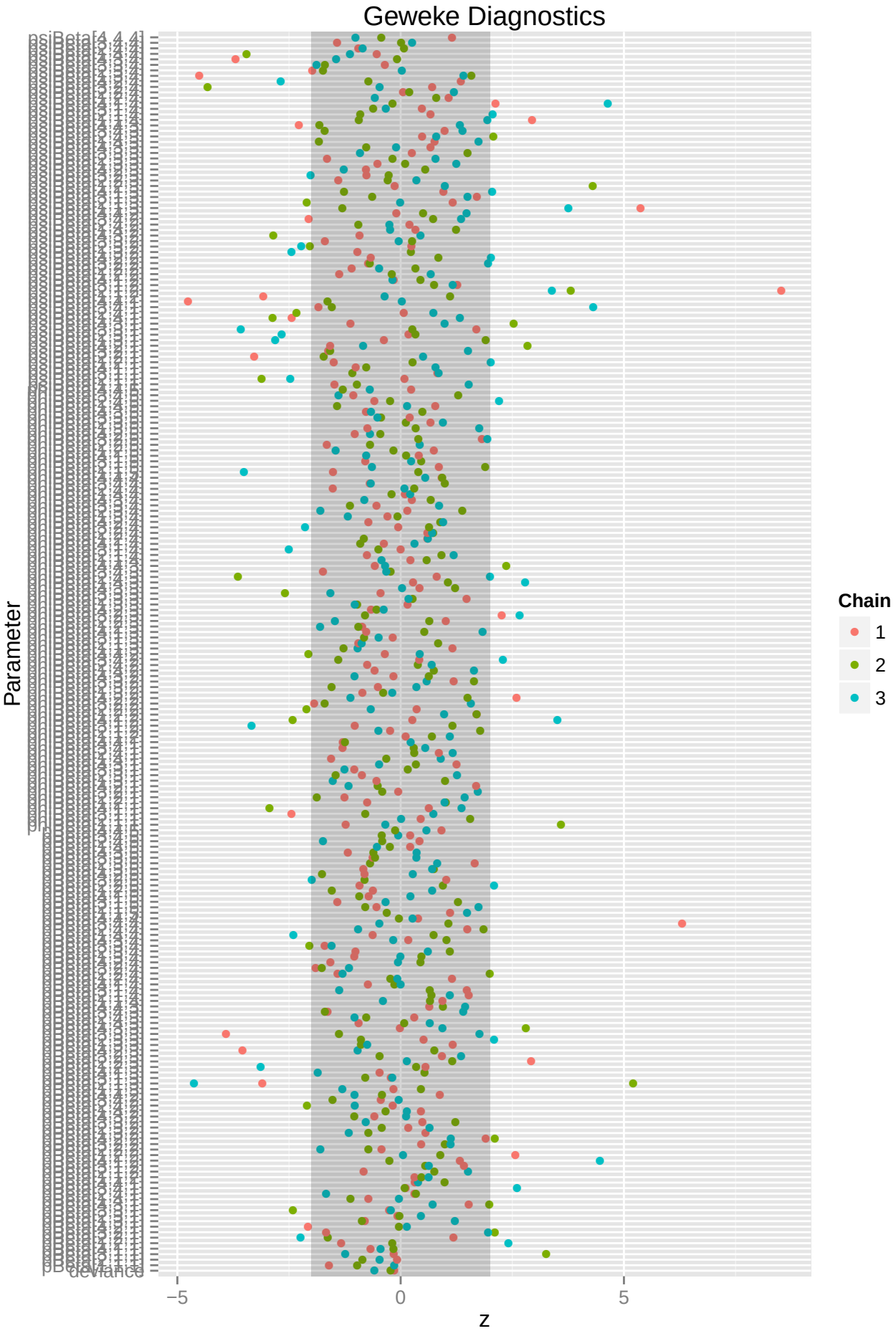
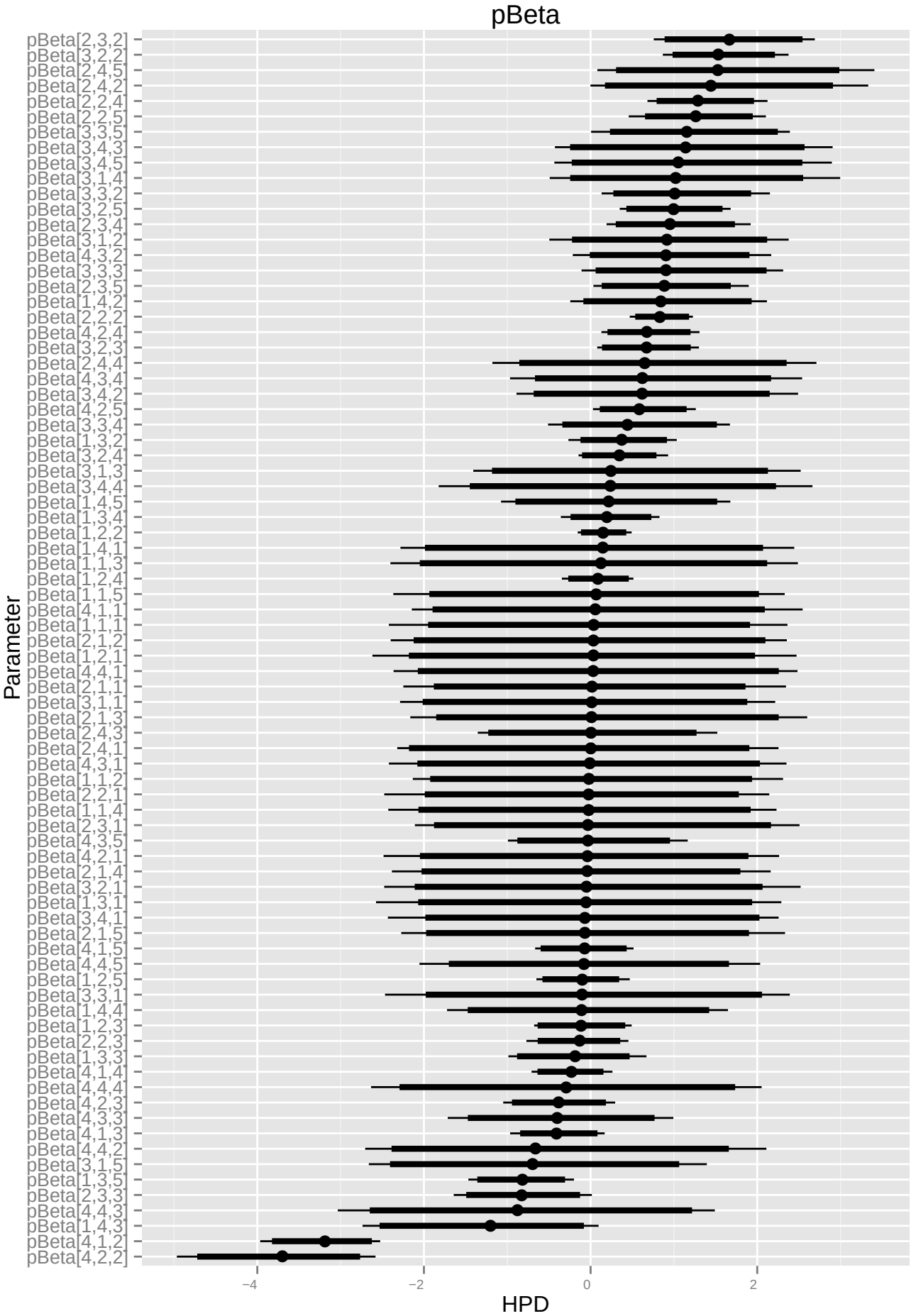
3
psiBeta[3,2,4]
psiBeta[4,2,4]
psiBeta[1,3,4]
psiBeta[2,3,4]
psiBeta[3,3,4]
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag
Chain
1
2
3


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


psiBeta[4,4,4]
deviance
value
1.0
0.5
0.0
−0.5
−1.0


Potential Scale Reduction Factor
Parameter
deviance
1.0
1.1
1.2
1.3
1.4
1.5
R̂


Geweke Diagnostics
Parameter
psiBeta[4,4,4]
deviance
−5
0
5
z
Chain
1
2
3


pBeta
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pBeta[2,2,4]
pBeta[2,2,5]
pBeta[3,3,5]
pBeta[3,4,3]
pBeta[3,4,5]
pBeta[3,1,4]
pBeta[3,3,2]
pBeta[3,2,5]
pBeta[2,3,4]
pBeta[3,1,2]
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pBeta[3,3,3]
pBeta[2,3,5]
pBeta[1,4,2]
pBeta[2,2,2]
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pBeta[2,4,4]
pBeta[4,3,4]
pBeta[3,4,2]
pBeta[4,2,5]
pBeta[3,3,4]
pBeta[1,3,2]
pBeta[3,2,4]
pBeta[3,1,3]
pBeta[3,4,4]
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pBeta[1,3,4]
pBeta[1,2,2]
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pBeta[1,2,4]
pBeta[1,1,5]
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pBeta[2,2,1]
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pBeta[2,1,4]
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pBeta[3,4,1]
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pBeta[4,4,5]
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pBeta[4,4,2]
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pBeta[4,4,3]
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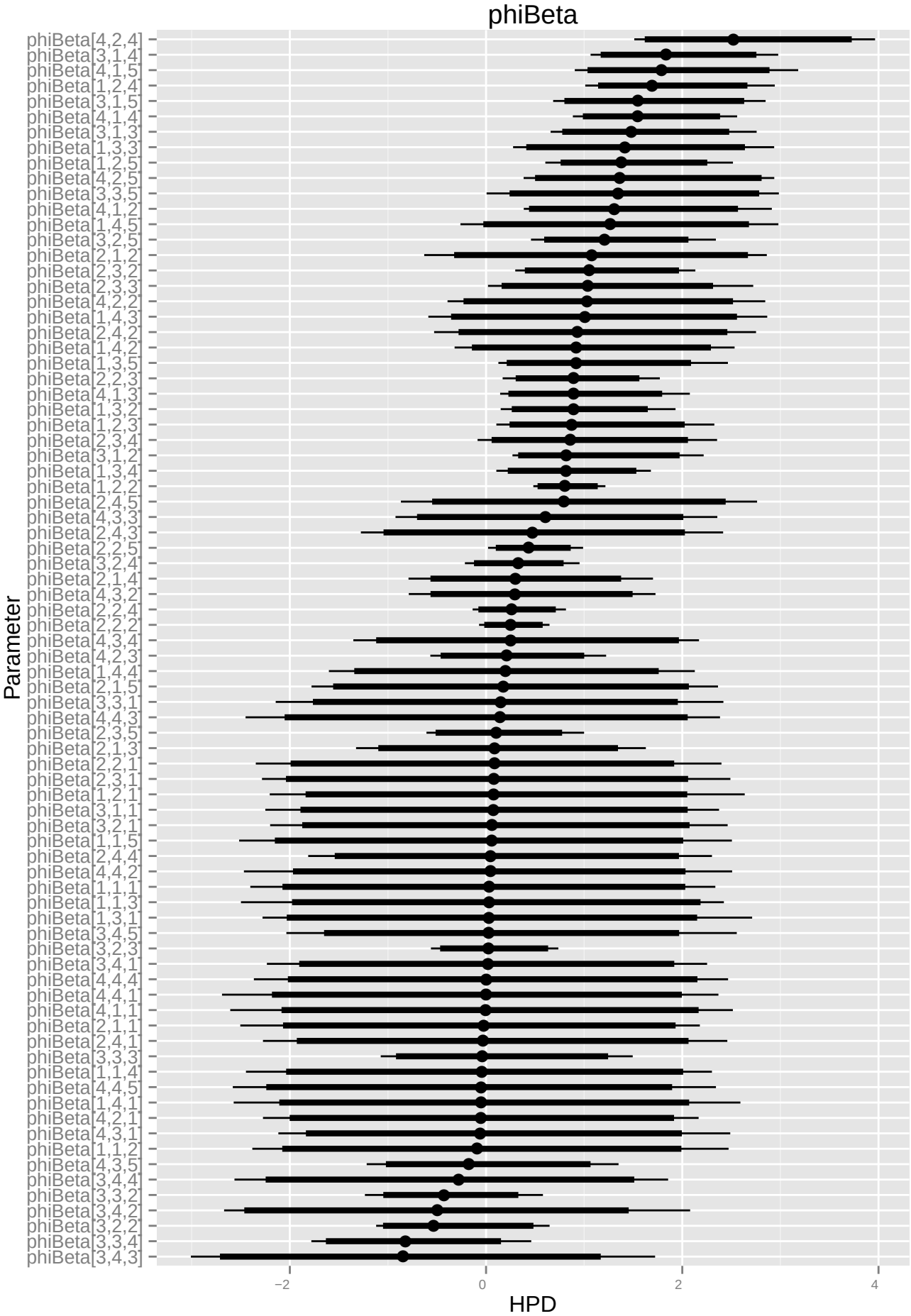
2
HPD


phiBeta
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phiBeta[4,1,5]
phiBeta[1,2,4]
phiBeta[3,1,5]
phiBeta[4,1,4]
phiBeta[3,1,3]
phiBeta[1,3,3]
phiBeta[1,2,5]
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phiBeta[3,3,5]
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phiBeta[1,4,5]
phiBeta[3,2,5]
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phiBeta[2,3,2]
phiBeta[2,3,3]
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phiBeta[1,4,3]
phiBeta[2,4,2]
phiBeta[1,4,2]
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phiBeta[4,1,3]
phiBeta[1,3,2]
phiBeta[1,2,3]
phiBeta[2,3,4]
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phiBeta[1,2,2]
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phiBeta[4,3,3]
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phiBeta[2,2,2]
phiBeta[4,3,4]
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phiBeta[2,3,1]
phiBeta[1,2,1]
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phiBeta[3,3,2]
phiBeta[3,4,2]
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phiBeta[3,3,4]
phiBeta[3,4,3]
Parameter
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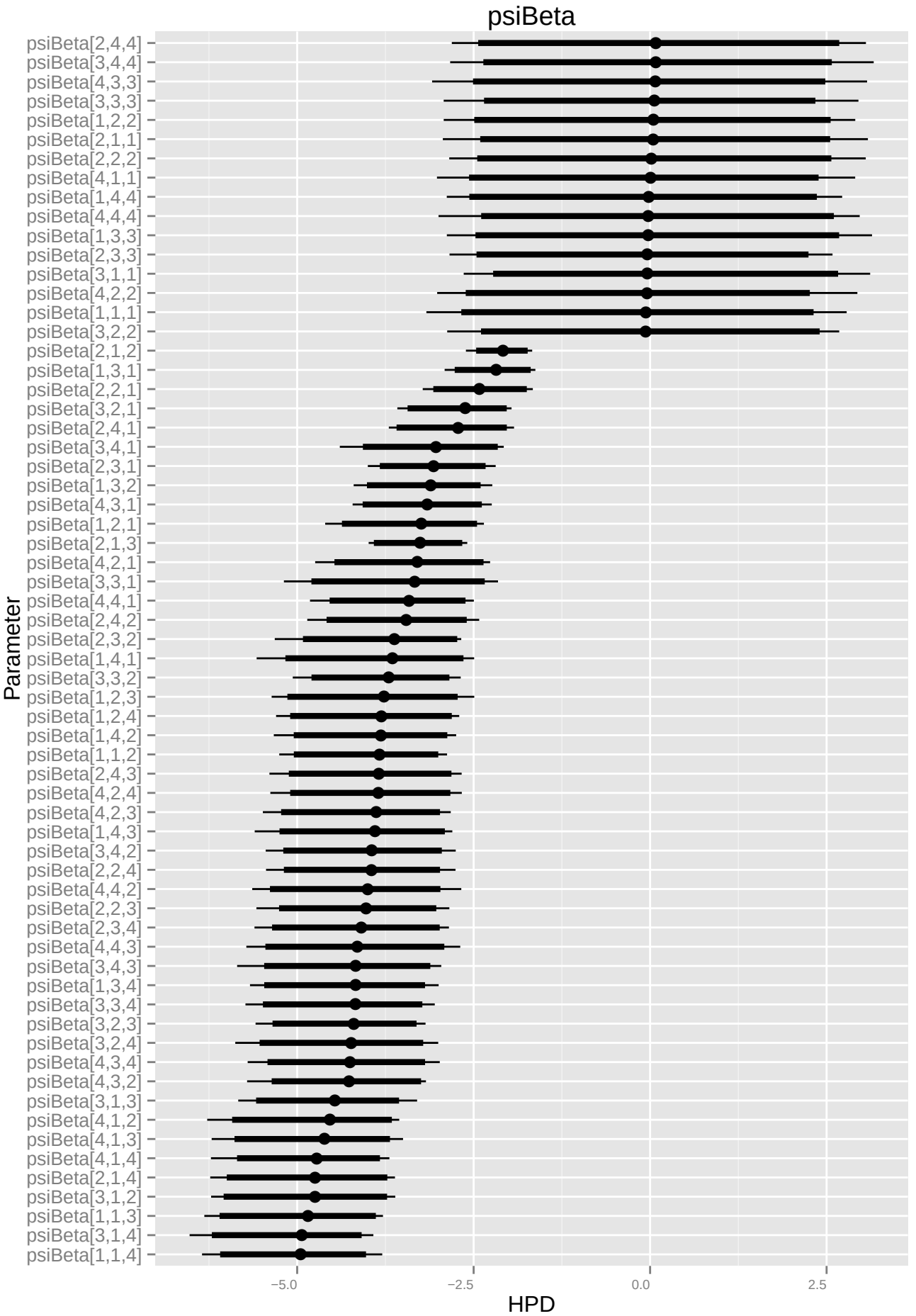
2
4
HPD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psiBeta[1,3,2]
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psiBeta[4,3,4]
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psiBeta[4,1,2]
psiBeta[4,1,3]
psiBeta[4,1,4]
psiBeta[2,1,4]
psiBeta[3,1,2]
psiBeta[1,1,3]
psiBeta[3,1,4]
psiBeta[1,1,4]
−5.0
−2.5
0.0
2.5
HPD