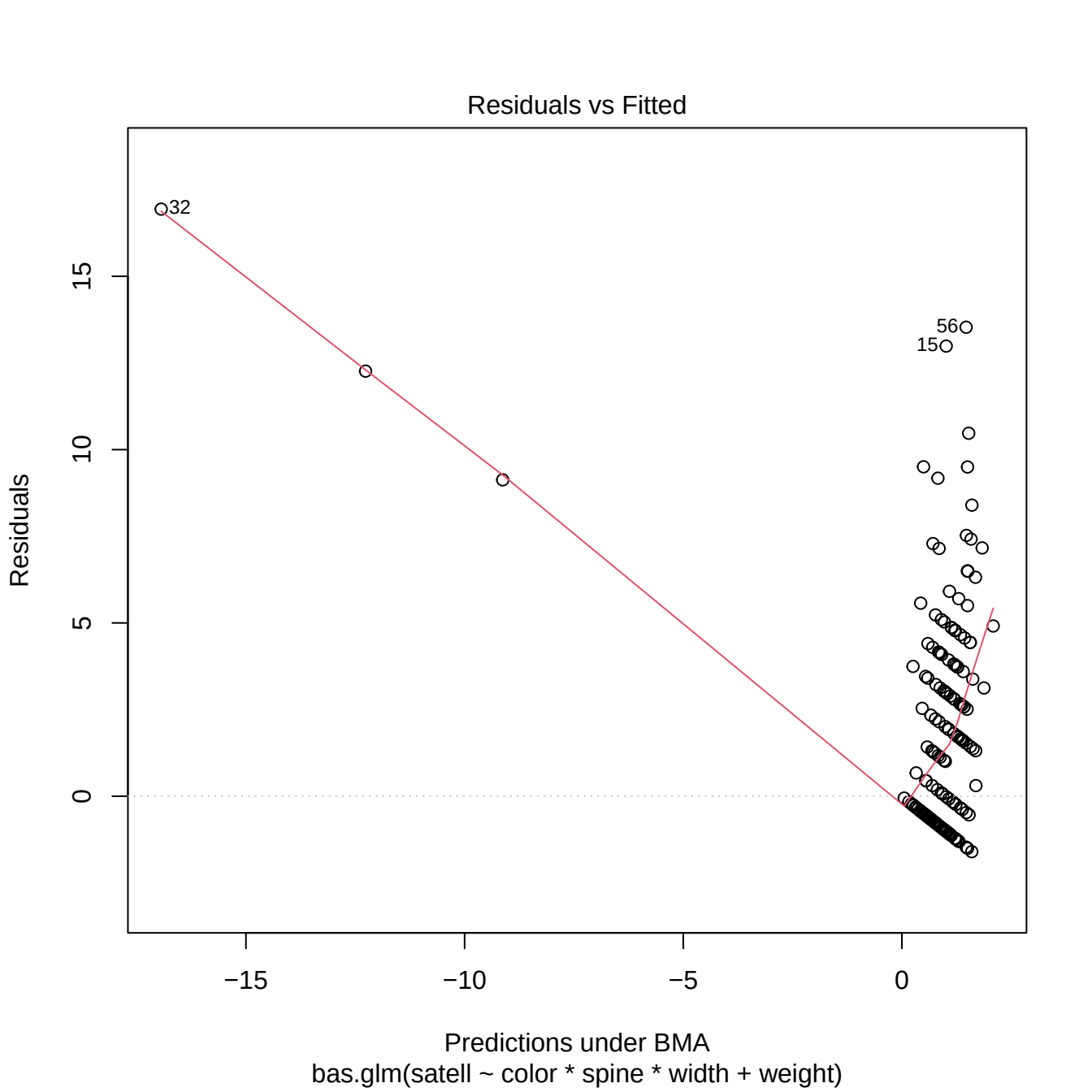
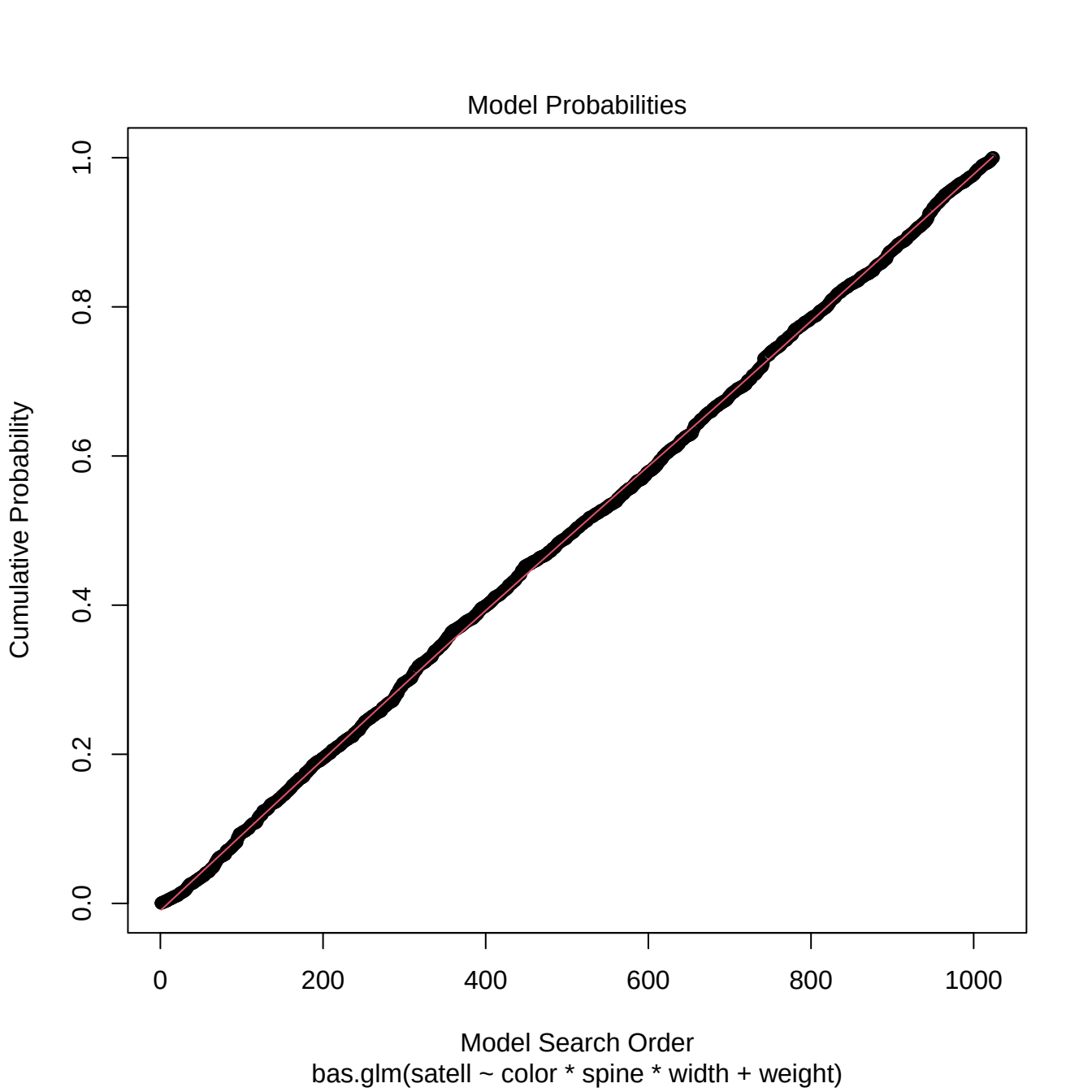
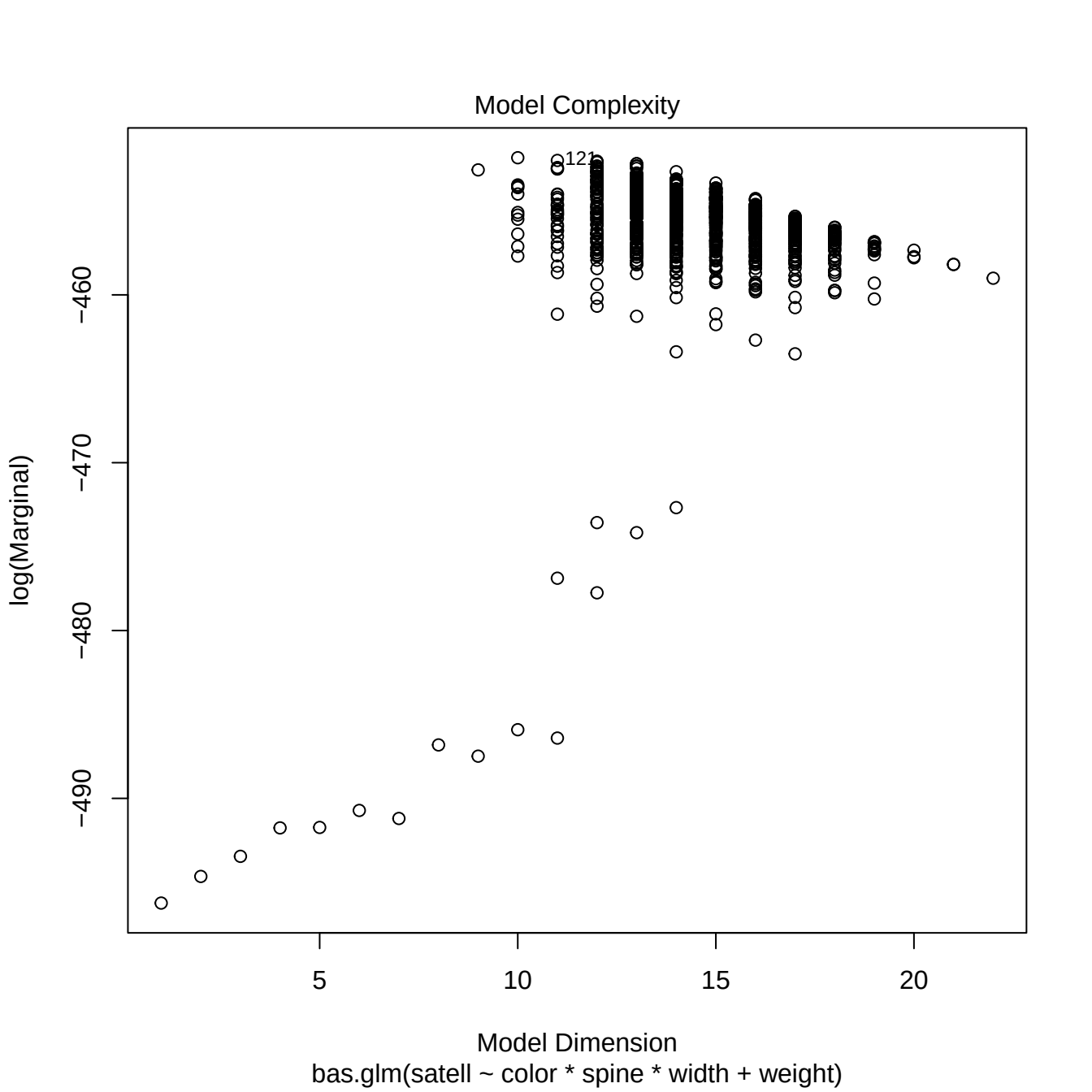
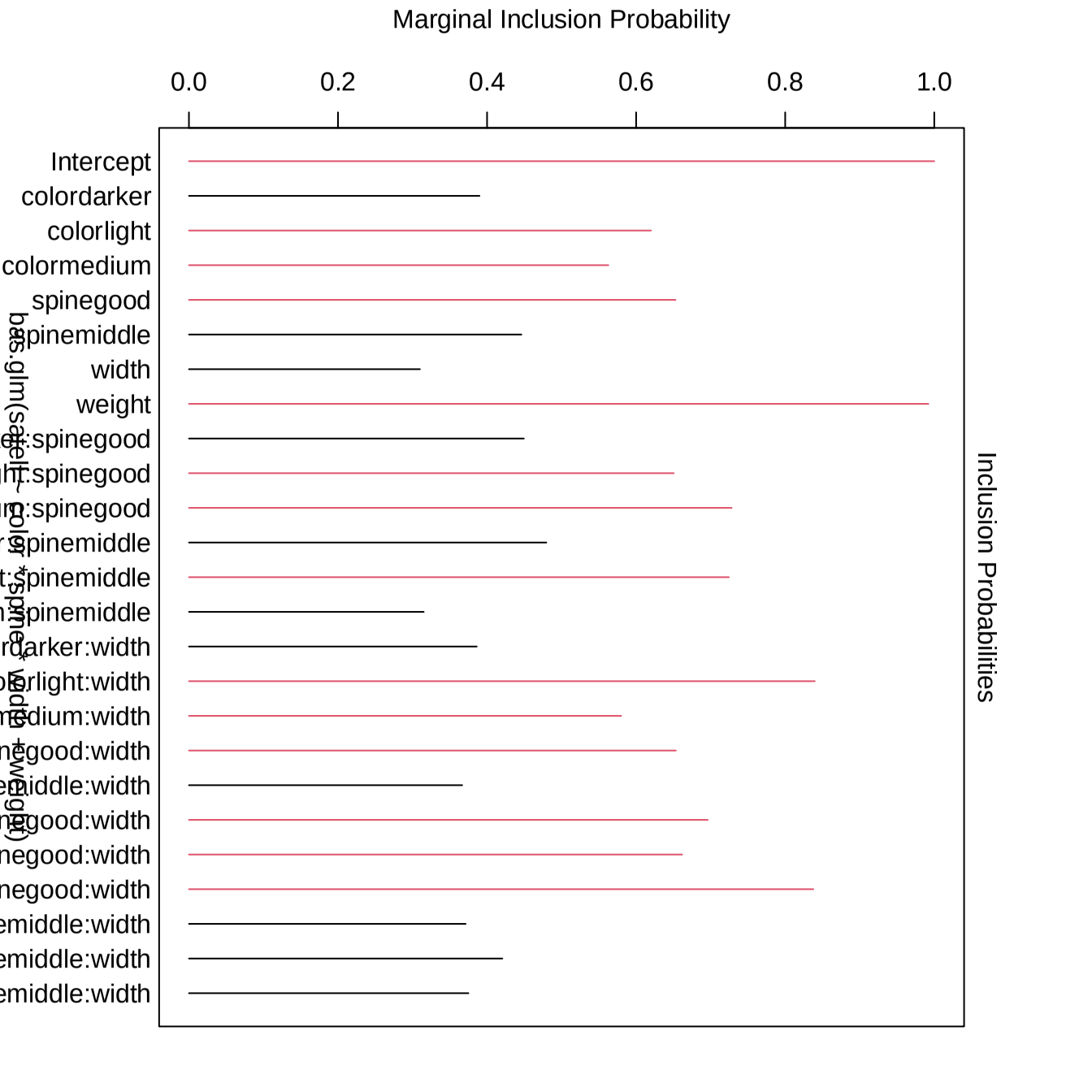
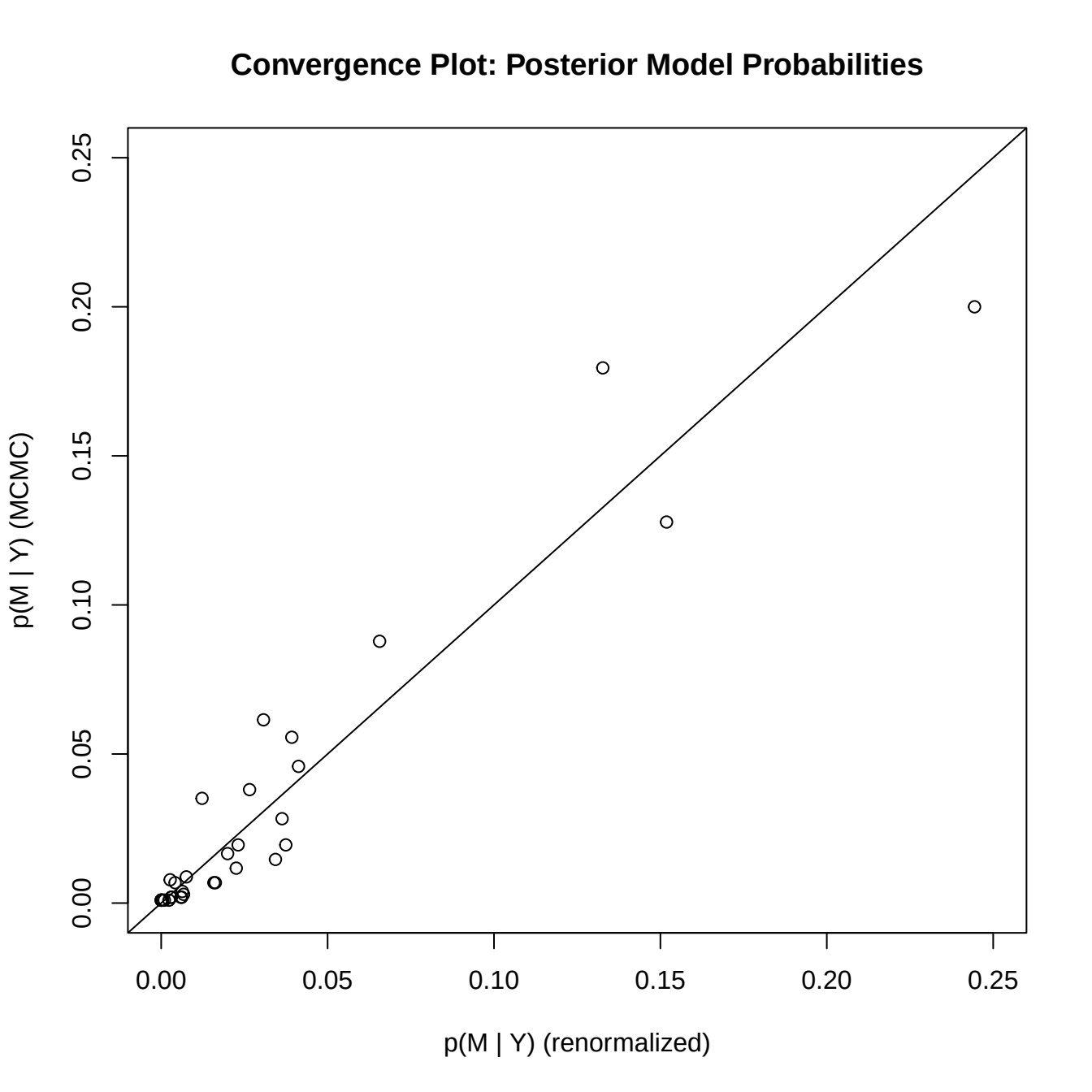
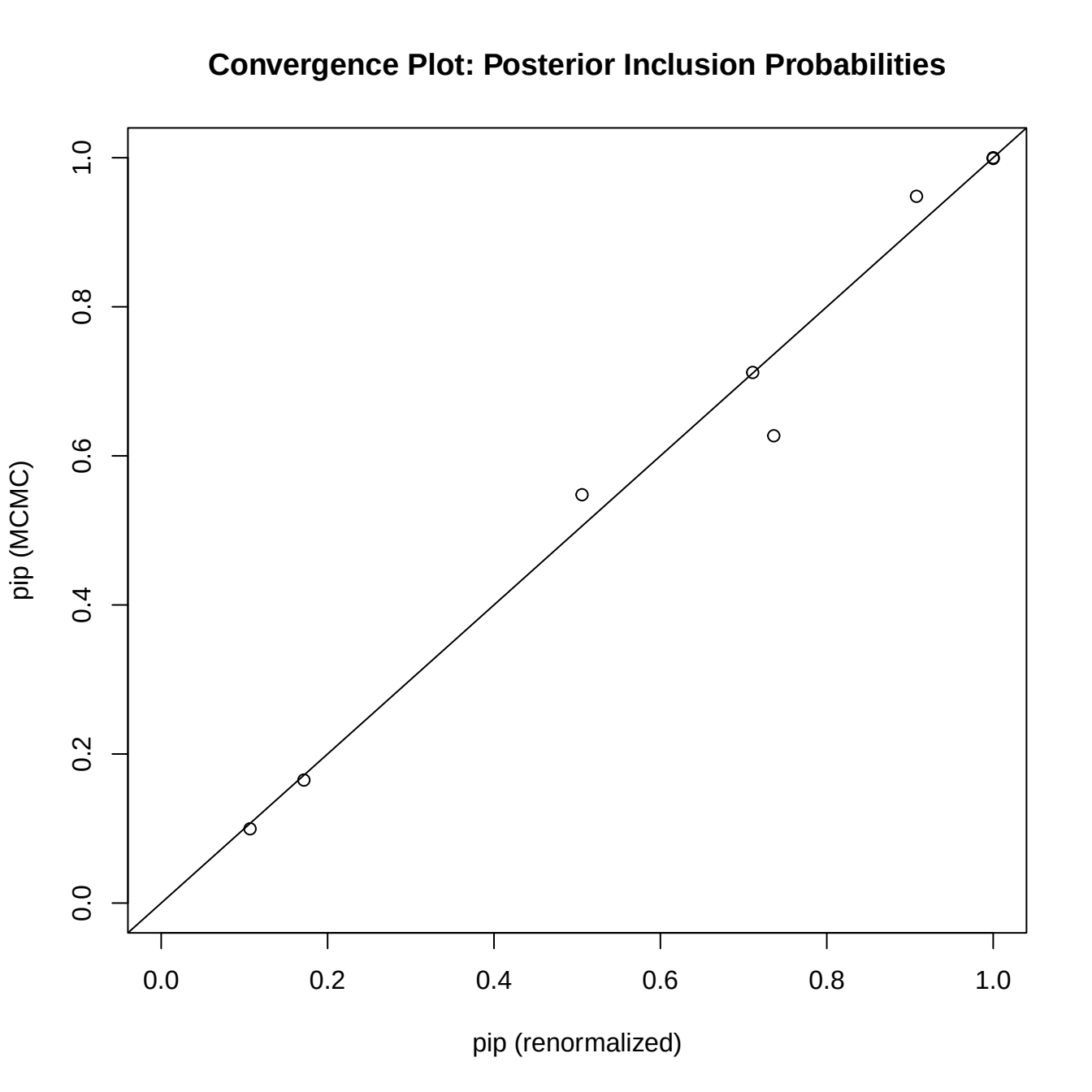

Residuals vs Fitted
Residuals
Predictions under BMA
bas.glm(satell ~ color * spine * width + weight)
32
56
15
15
10
5
0
−15
−10
−5
0

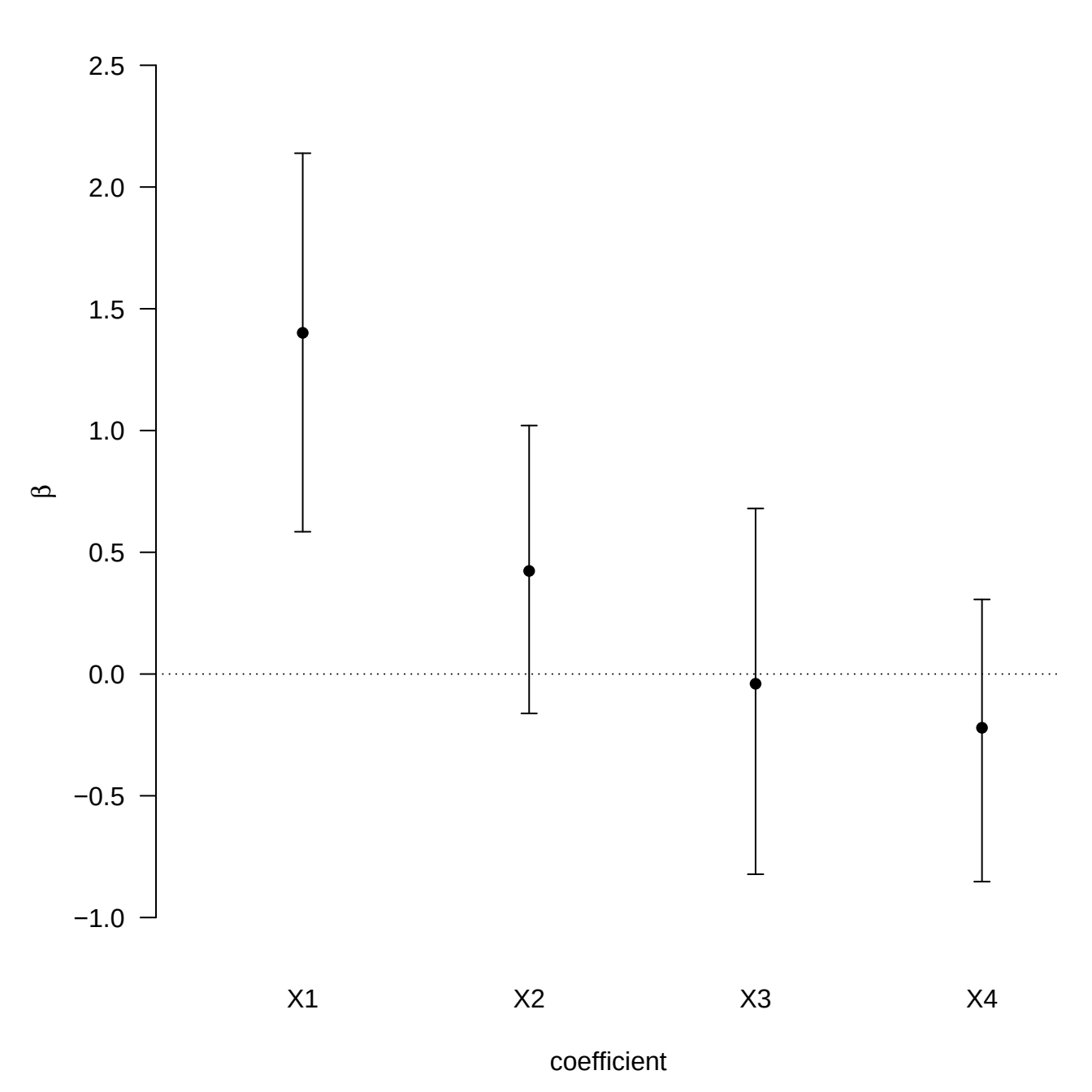

Model Probabilities
Cumulative Probability
0.0
0.2
0.4
0.6
0.8
1.0
0
200
400
600
800
1000
Model Search Order
bas.glm(satell ~ color * spine * width + weight)

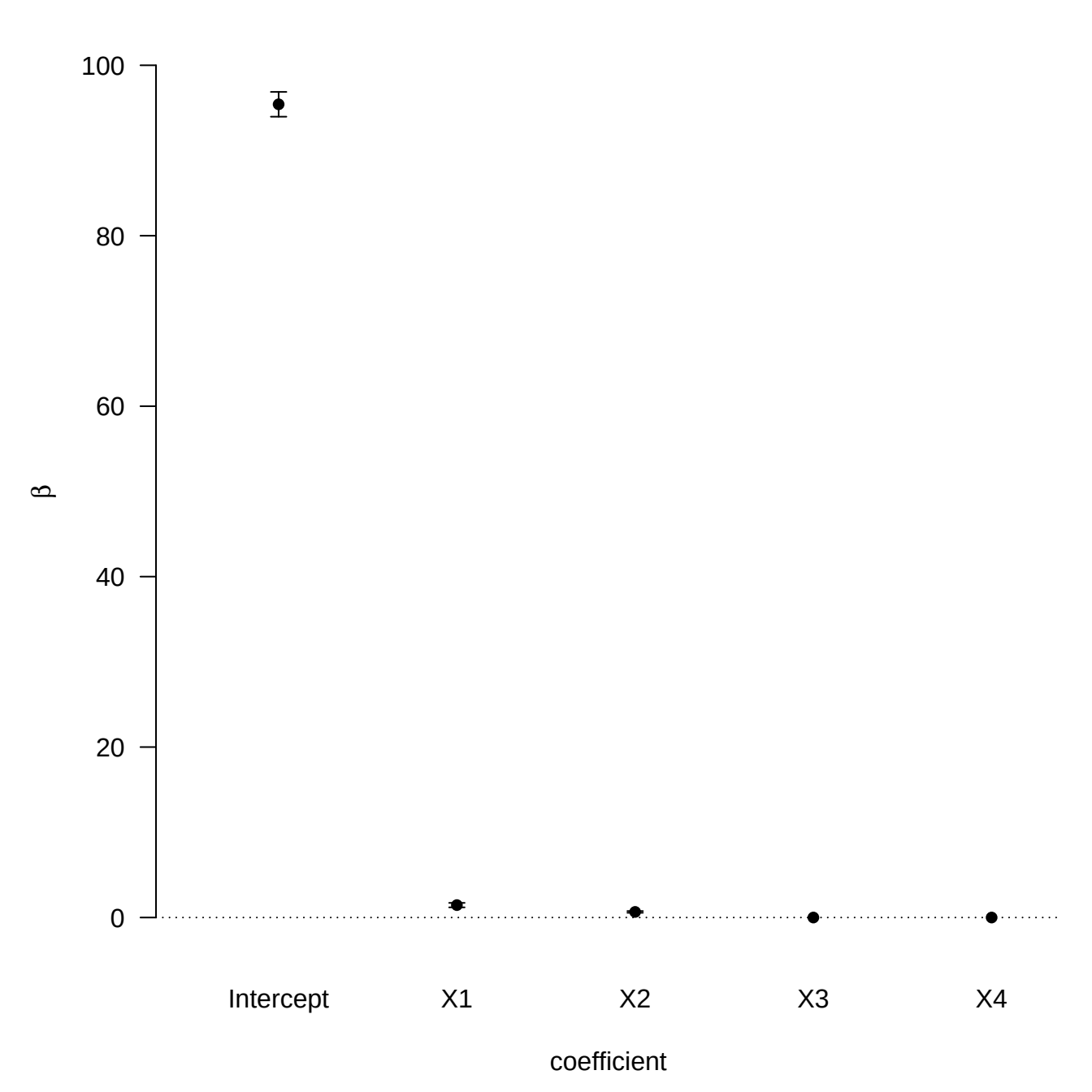

Model Complexity
121
log(Marginal)
−460
−470
−480
−490
5
10
15
20
Model Dimension
bas.glm(satell ~ color * spine * width + weight)

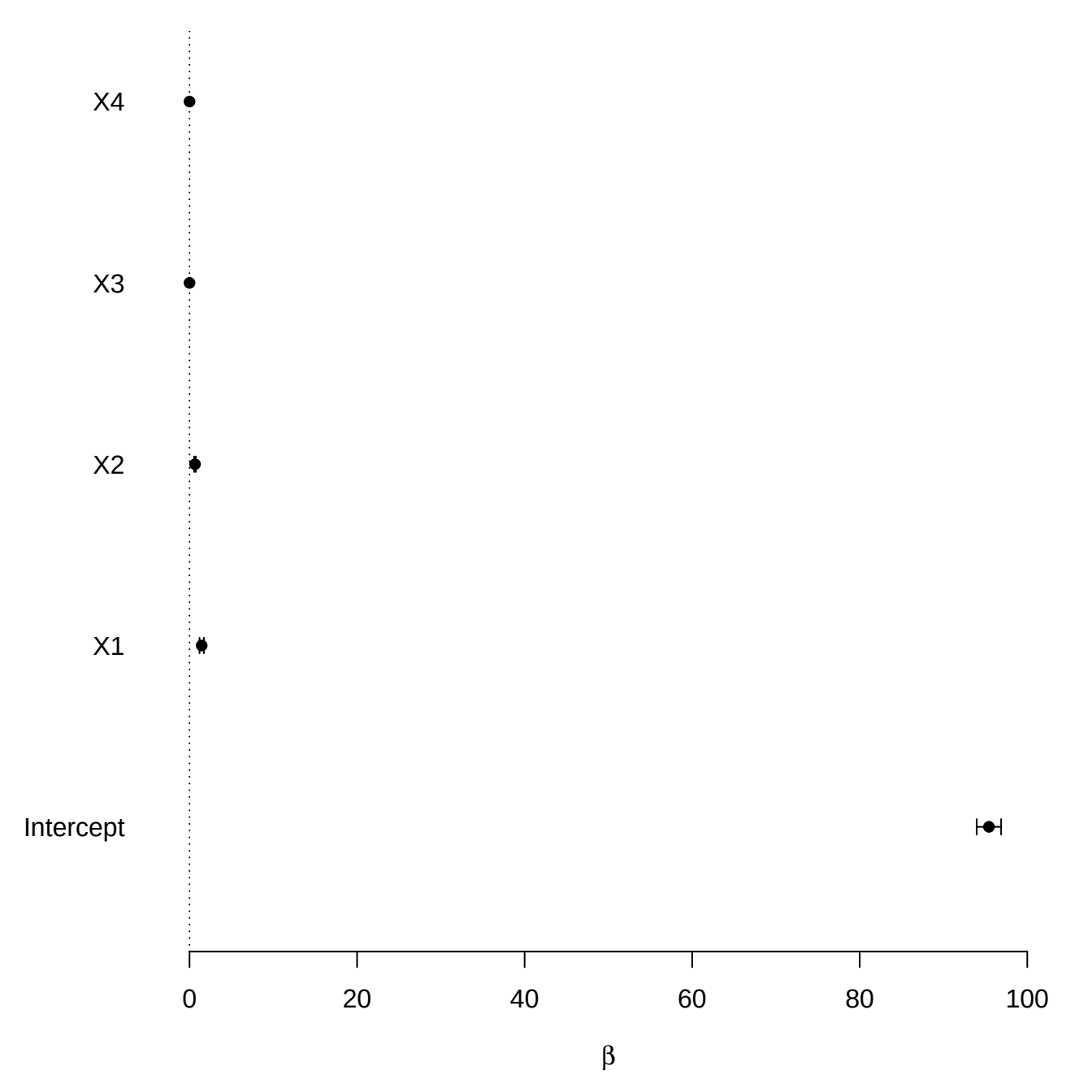

Marginal Inclusion Probability
0.0
0.2
0.4
0.6
0.8
1.0
Intercept
colordarker
colorlight
colormedium
spinegood
spinemiddle
width
weight
spinegood
spinegood
spinegood
spinemiddle
spinemiddle
spinemiddle
width
width
width
width
width
width
width
width
width
width
Inclusion Probabilities

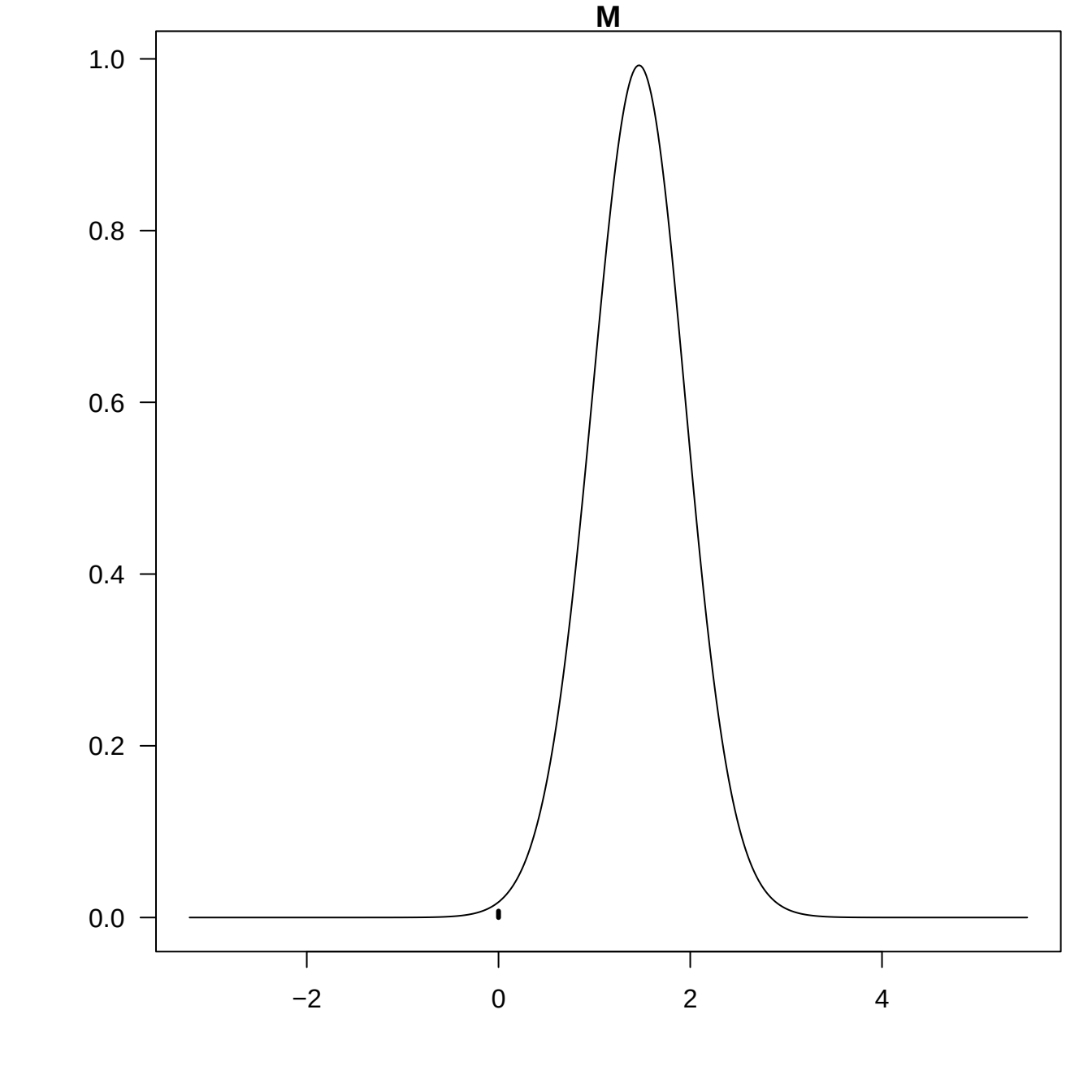

Convergence Plot: Posterior Model Probabilities
p(M | Y) (MCMC)
0.00
0.05
0.10
0.15
0.20
0.25
p(M | Y) (renormalized)
0.00
0.05
0.10
0.15
0.20
0.25

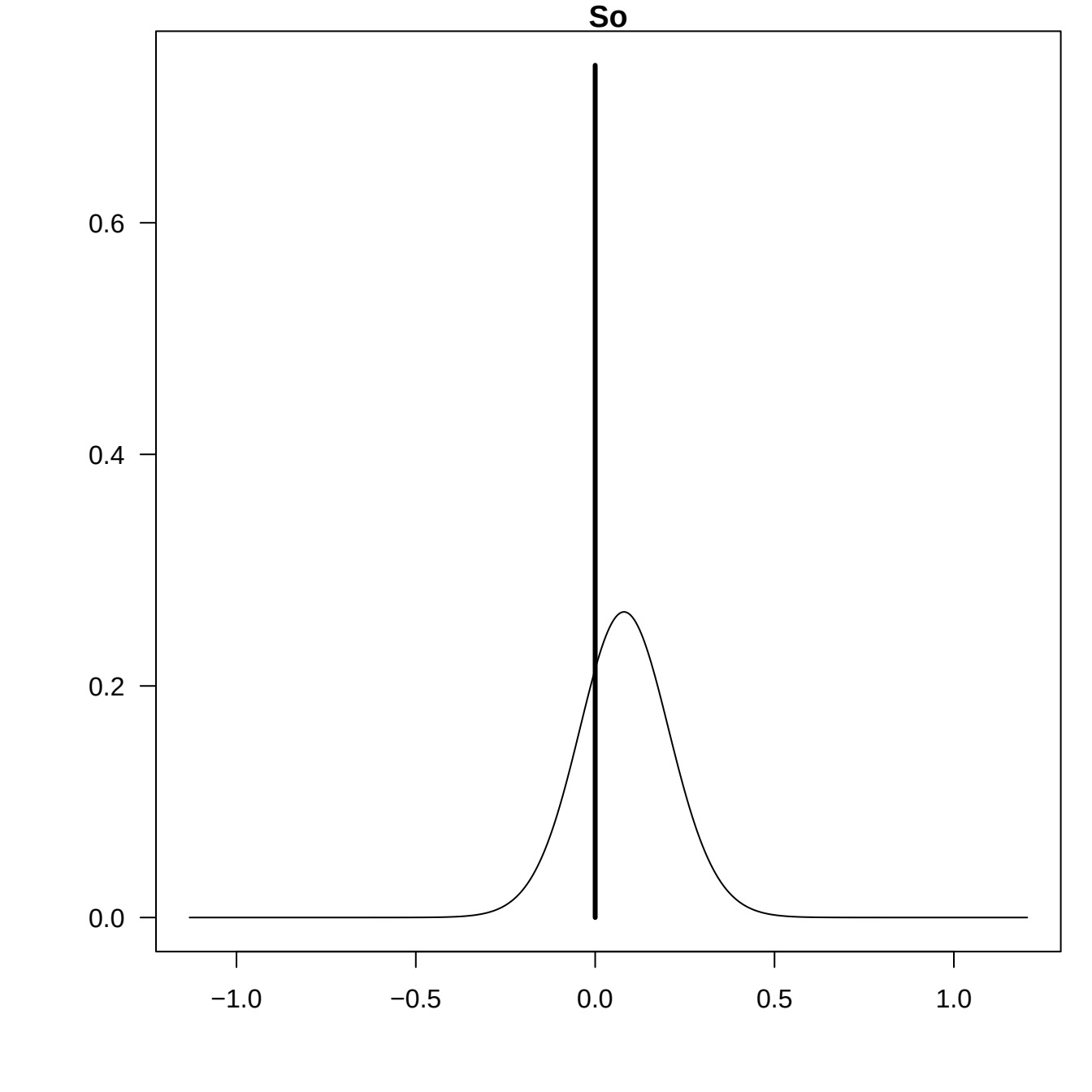

Convergence Plot: Posterior Inclusion Probabilities
pip (MCMC)
pip (renormalized)
0.0
0.2
0.4
0.6
0.8
1.0

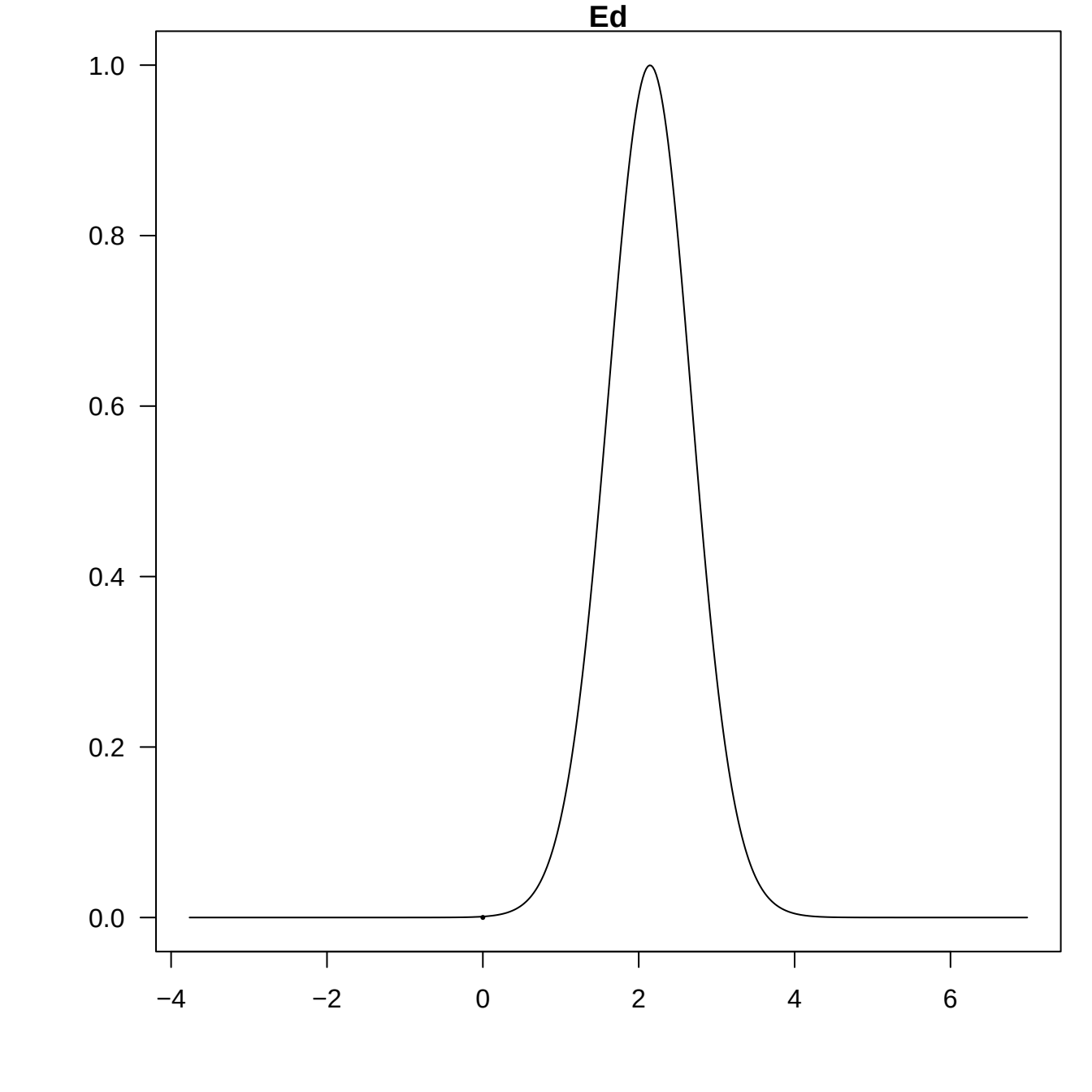

2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
β
X1
X2
X3
X4
coefficient

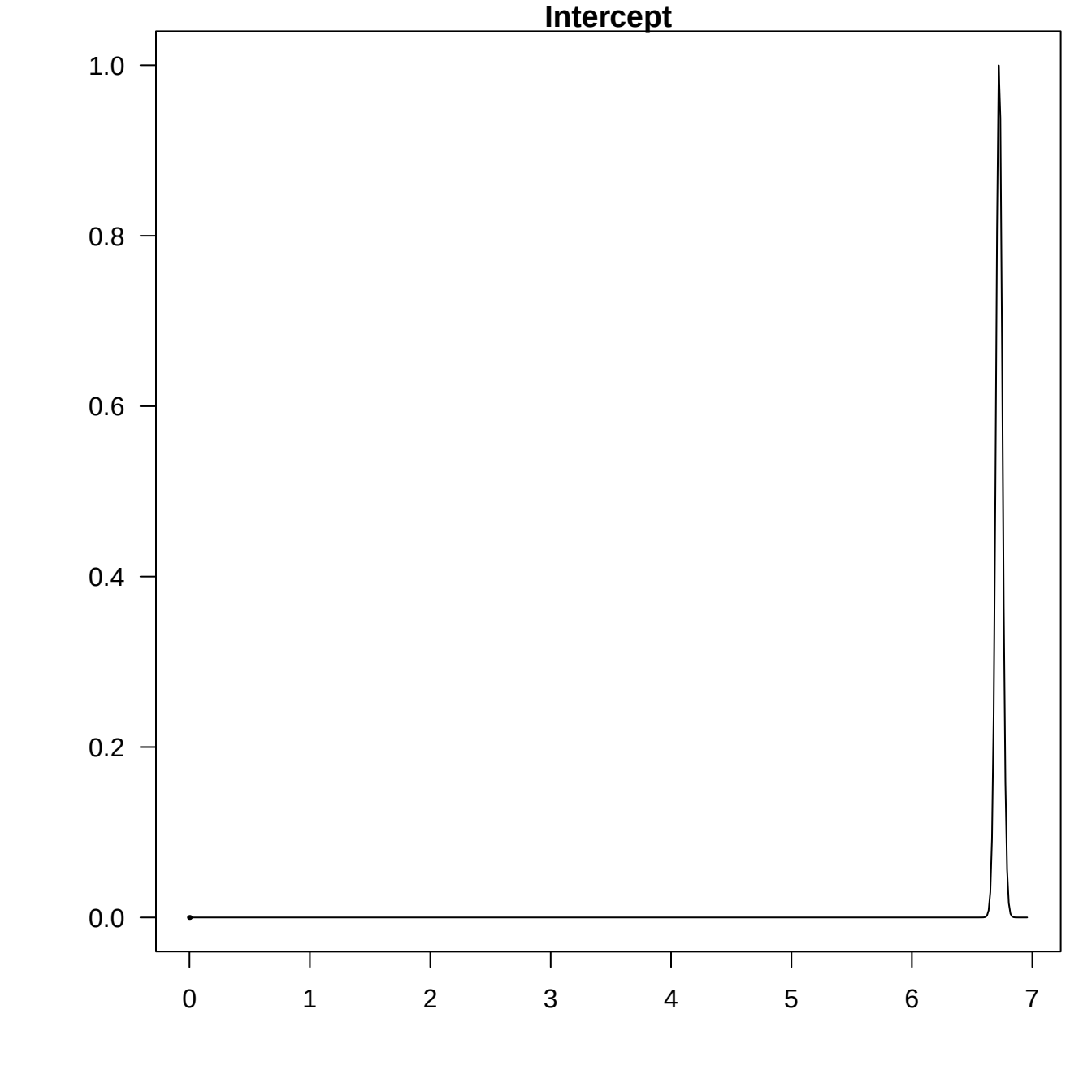

100
80
60
40
20
0
β
Intercept
X1
X2
X3
X4
coefficient

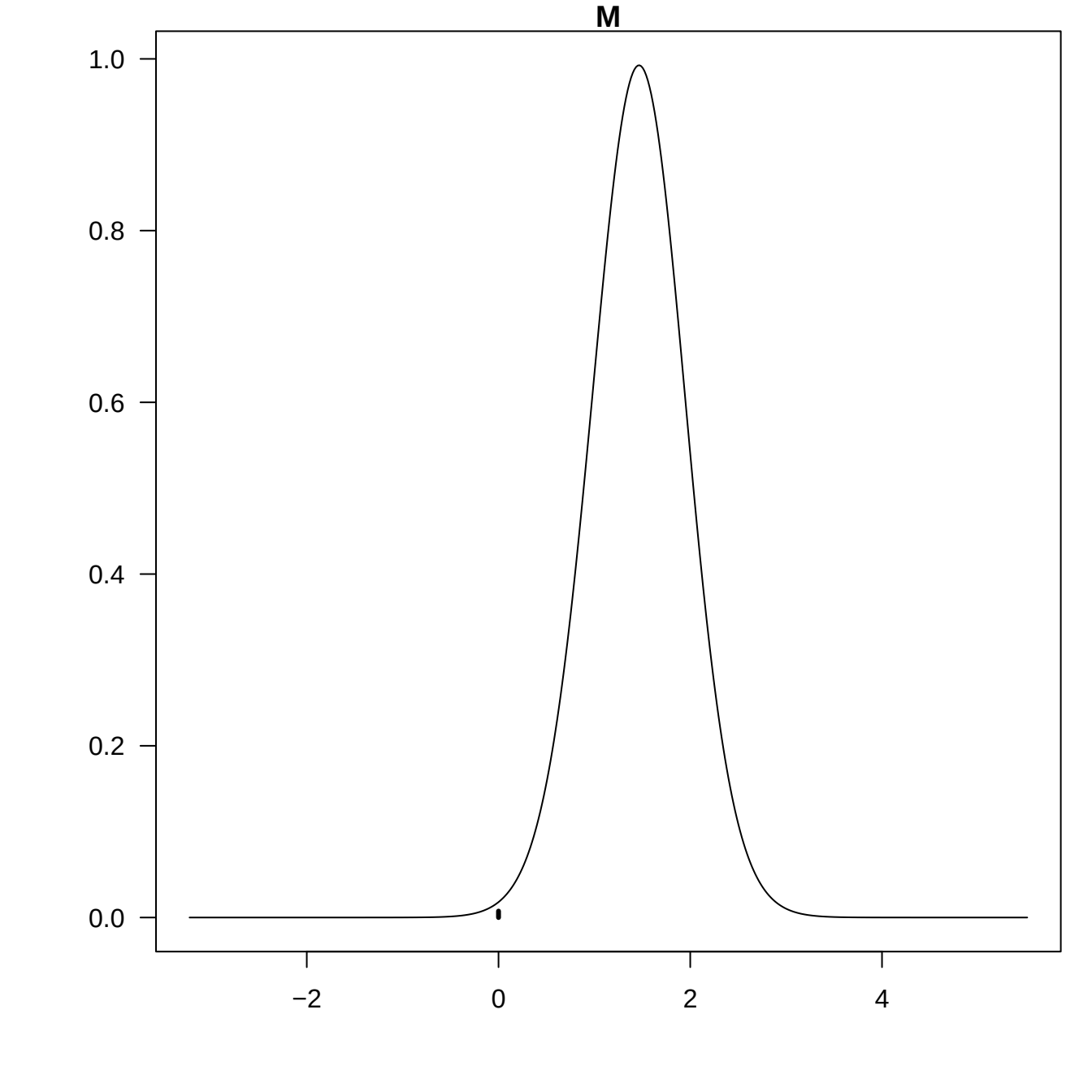

X4
X3
X2
X1
Intercept
0
20
40
60
80
100
β

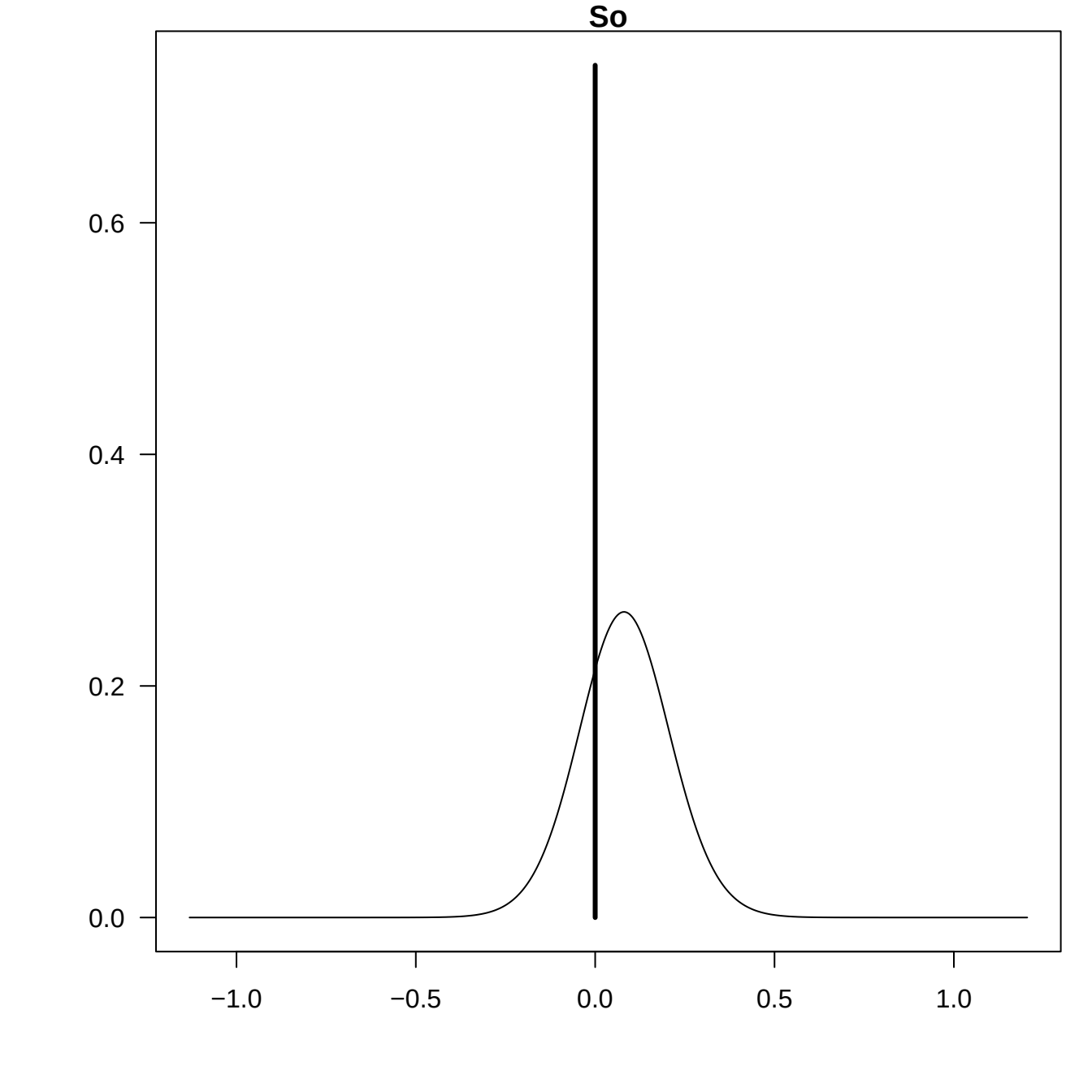

M
1.0
0.8
0.6
0.4
0.2
0.0
−2
0
2
4

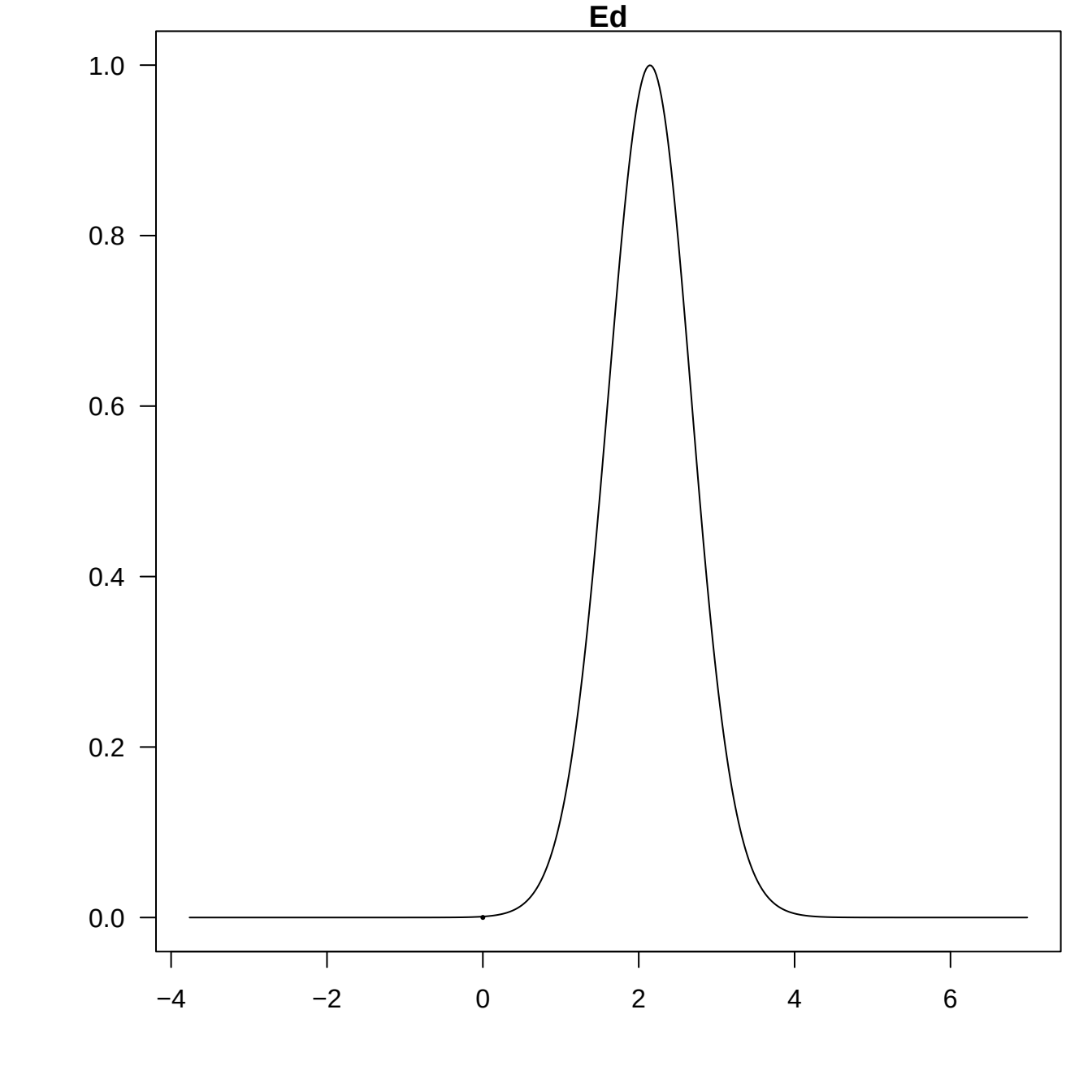

So
0.6
0.4
0.2
0.0
−1.0
−0.5
0.0
0.5
1.0

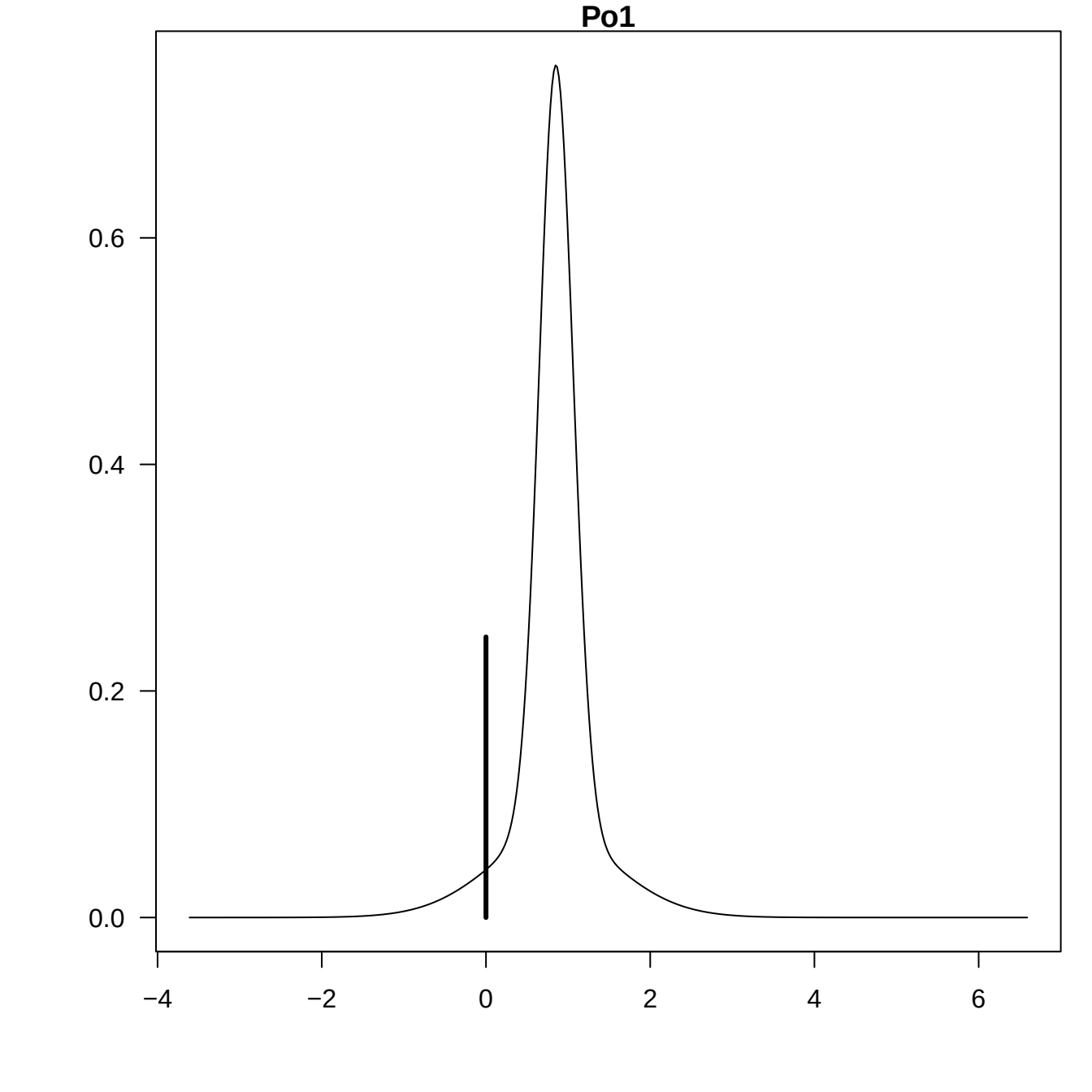

Ed
1.0
0.8
0.6
0.4
0.2
0.0
−4
−2
0
2
4
6

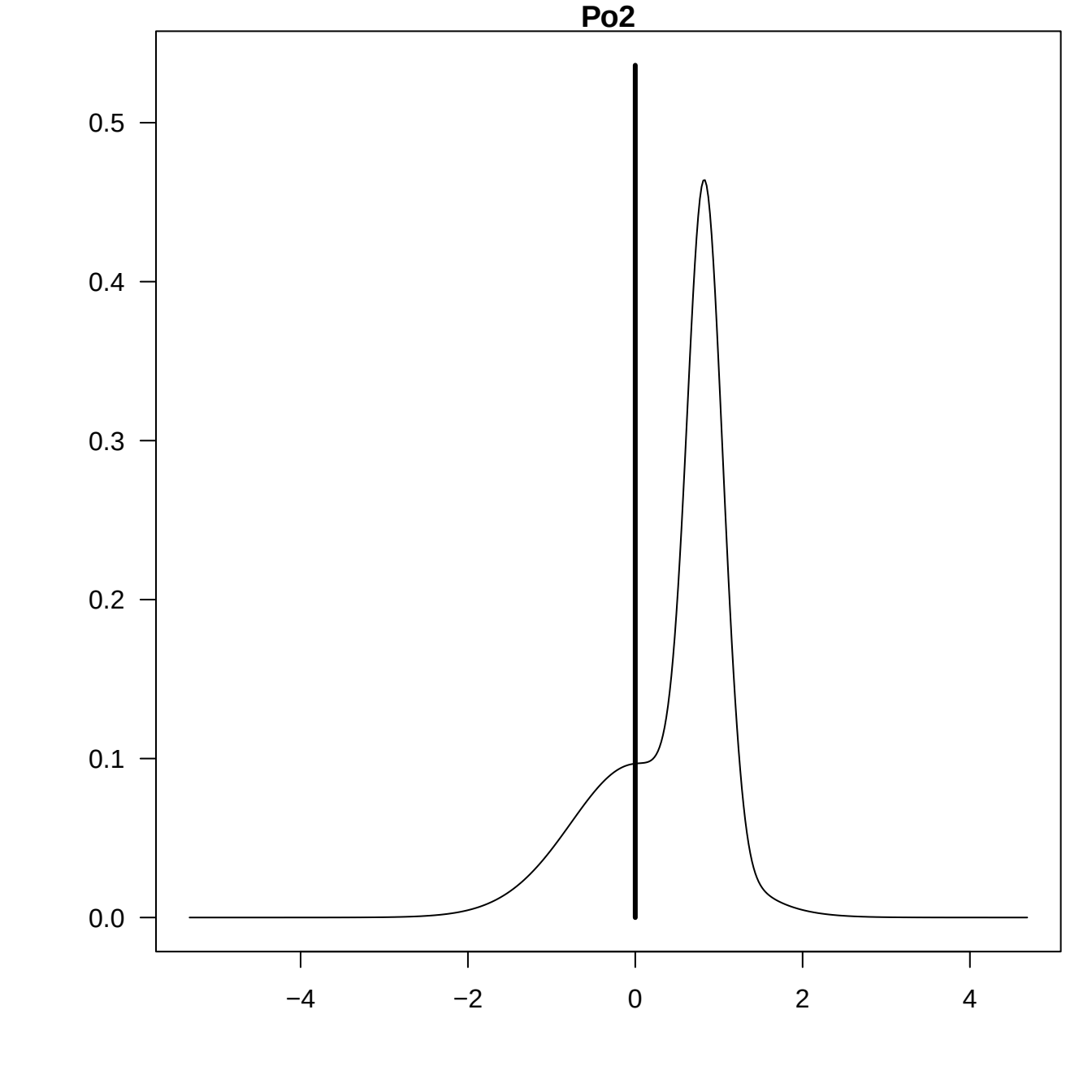

Intercept
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
7

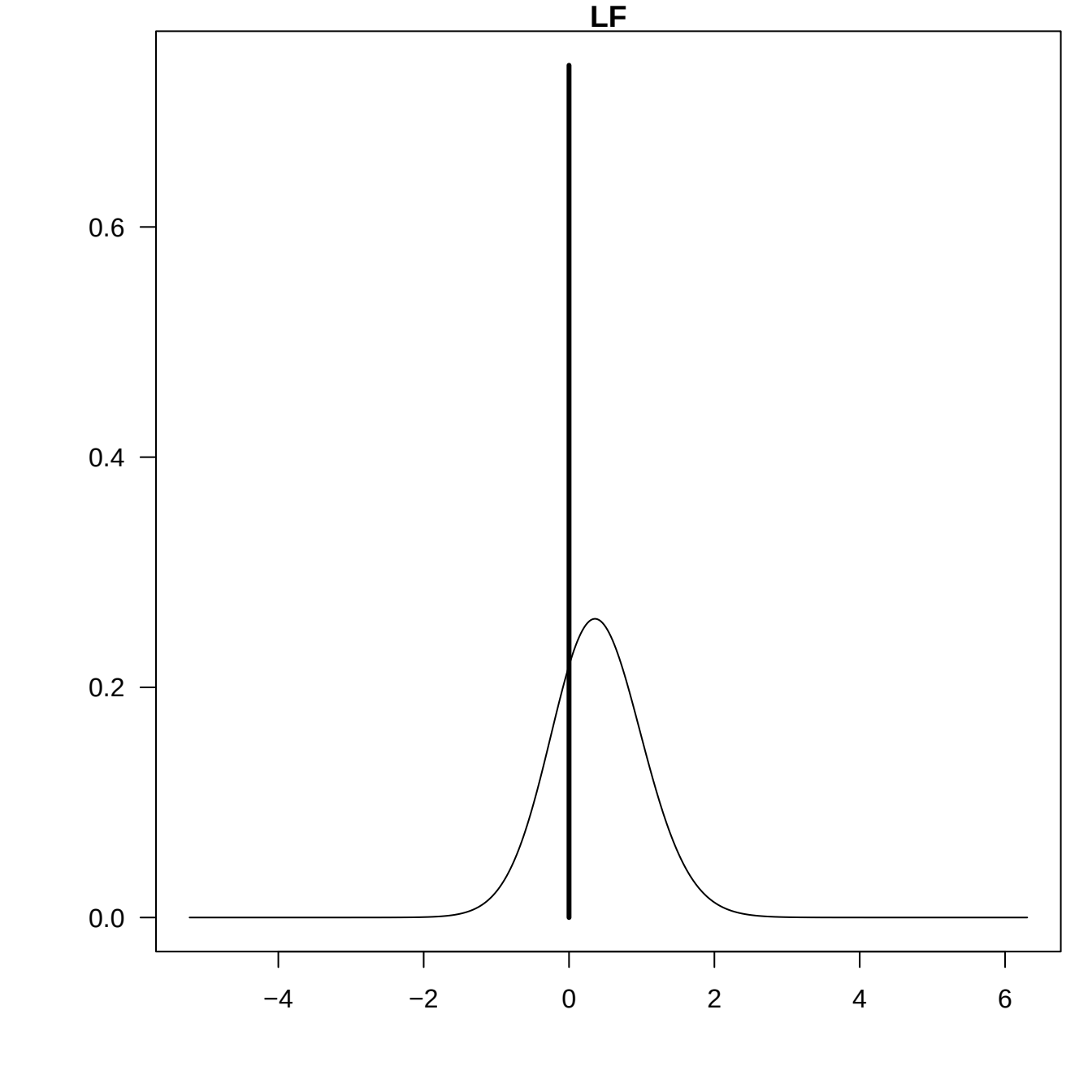

M
1.0
0.8
0.6
0.4
0.2
0.0
−2
0
2
4

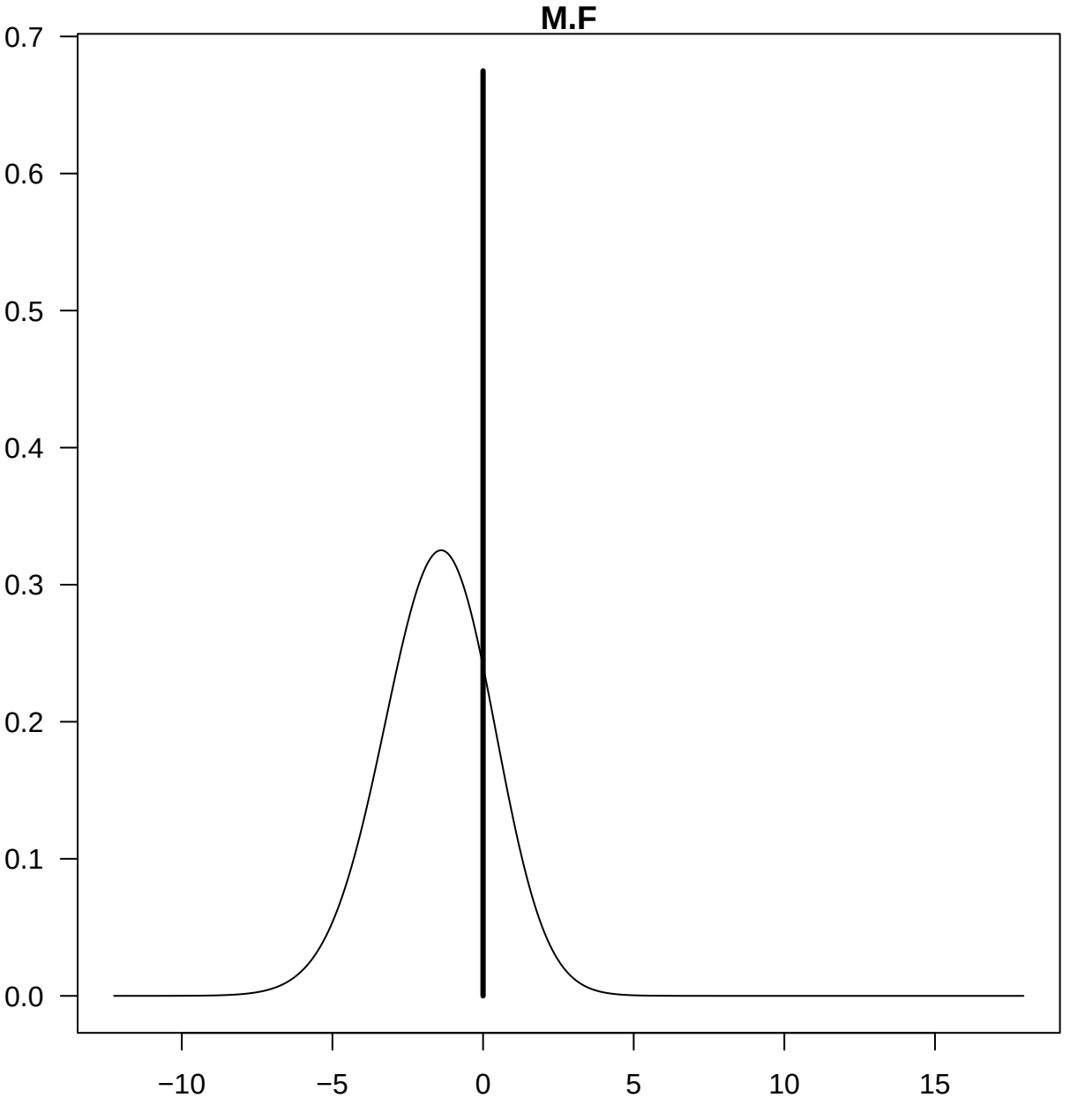

So
0.6
0.4
0.2
0.0
−1.0
−0.5
0.0
0.5
1.0

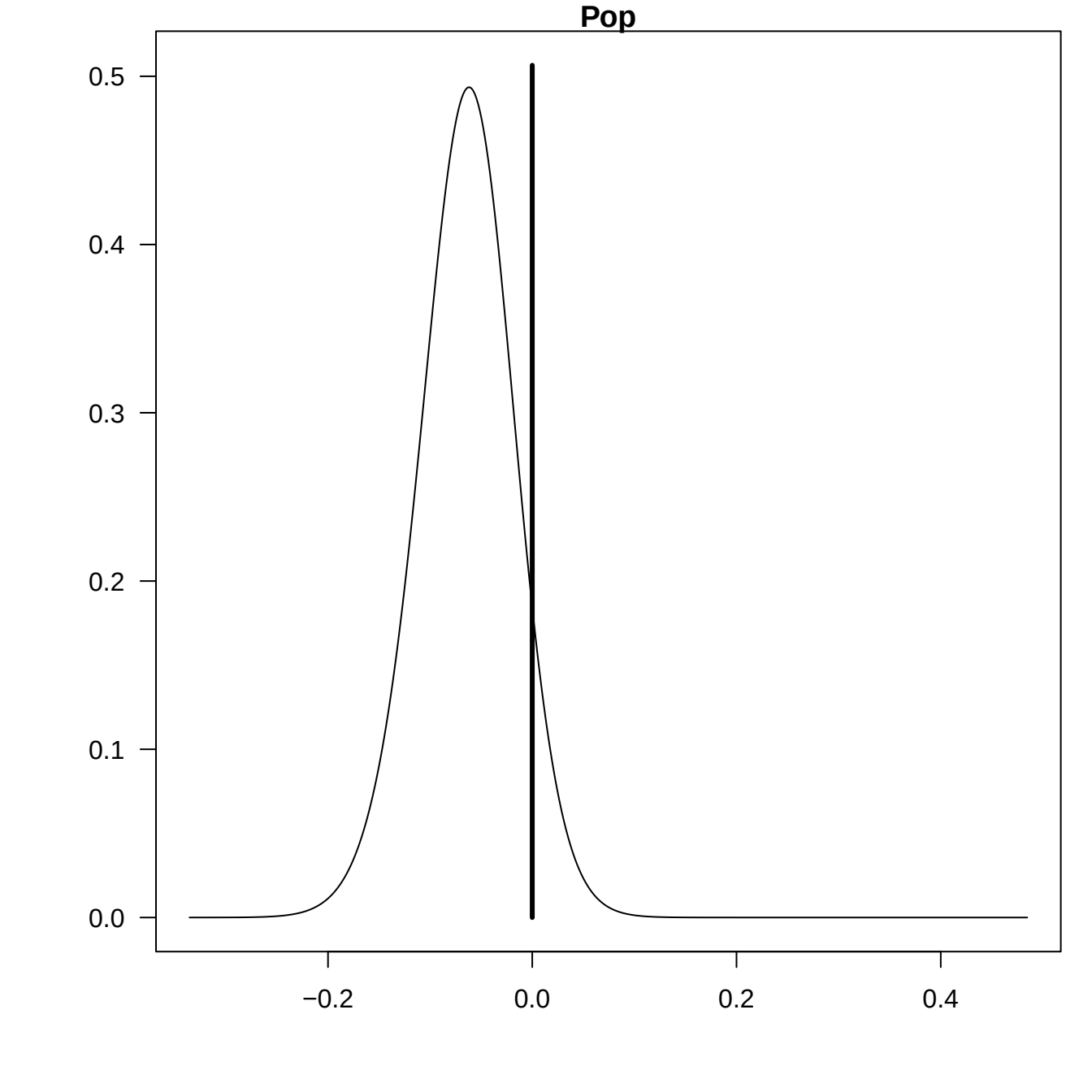

Ed
1.0
0.8
0.6
0.4
0.2
0.0
−4
−2
0
2
4
6

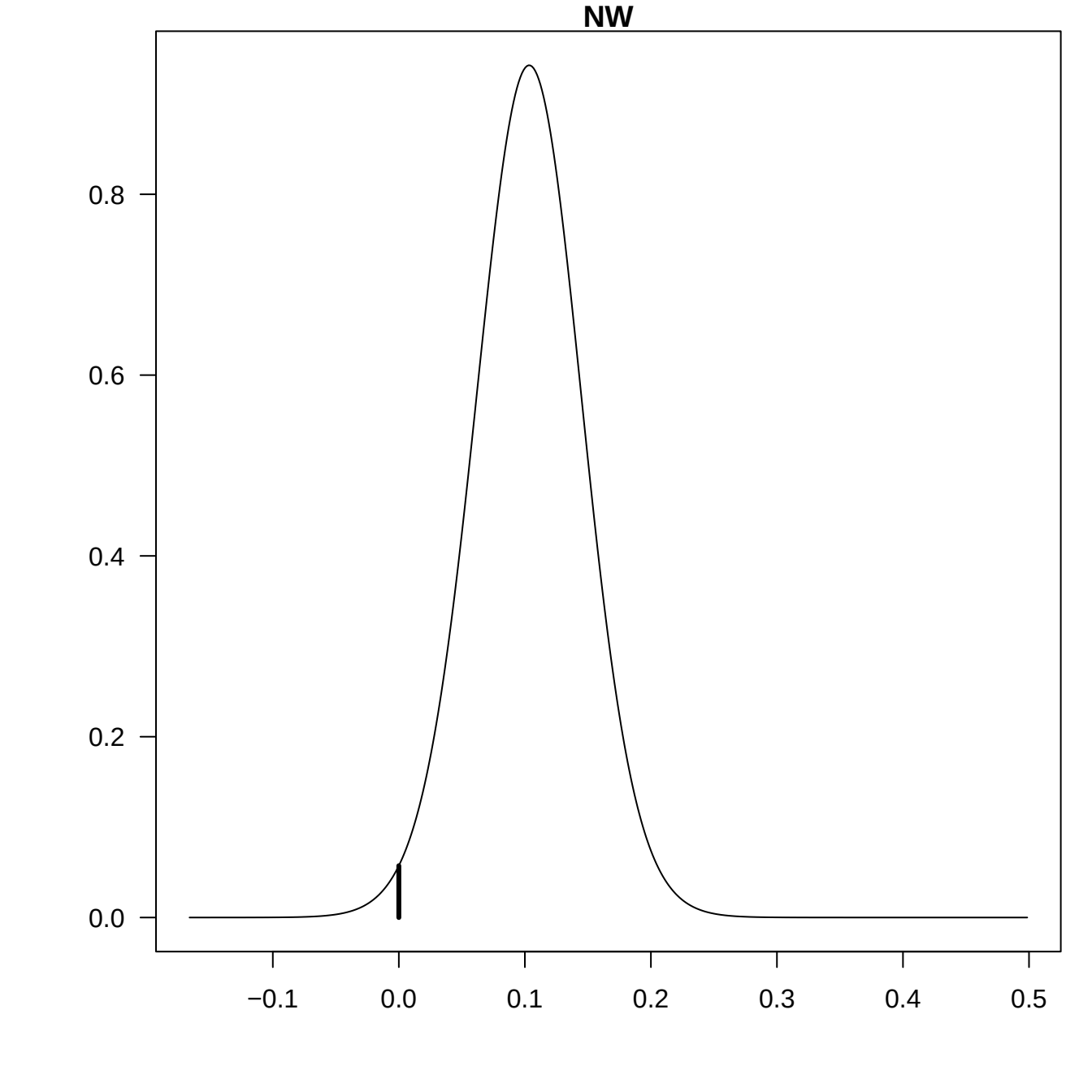

Po1
0.6
0.4
0.2
0.0
−4
−2
0
2
4
6

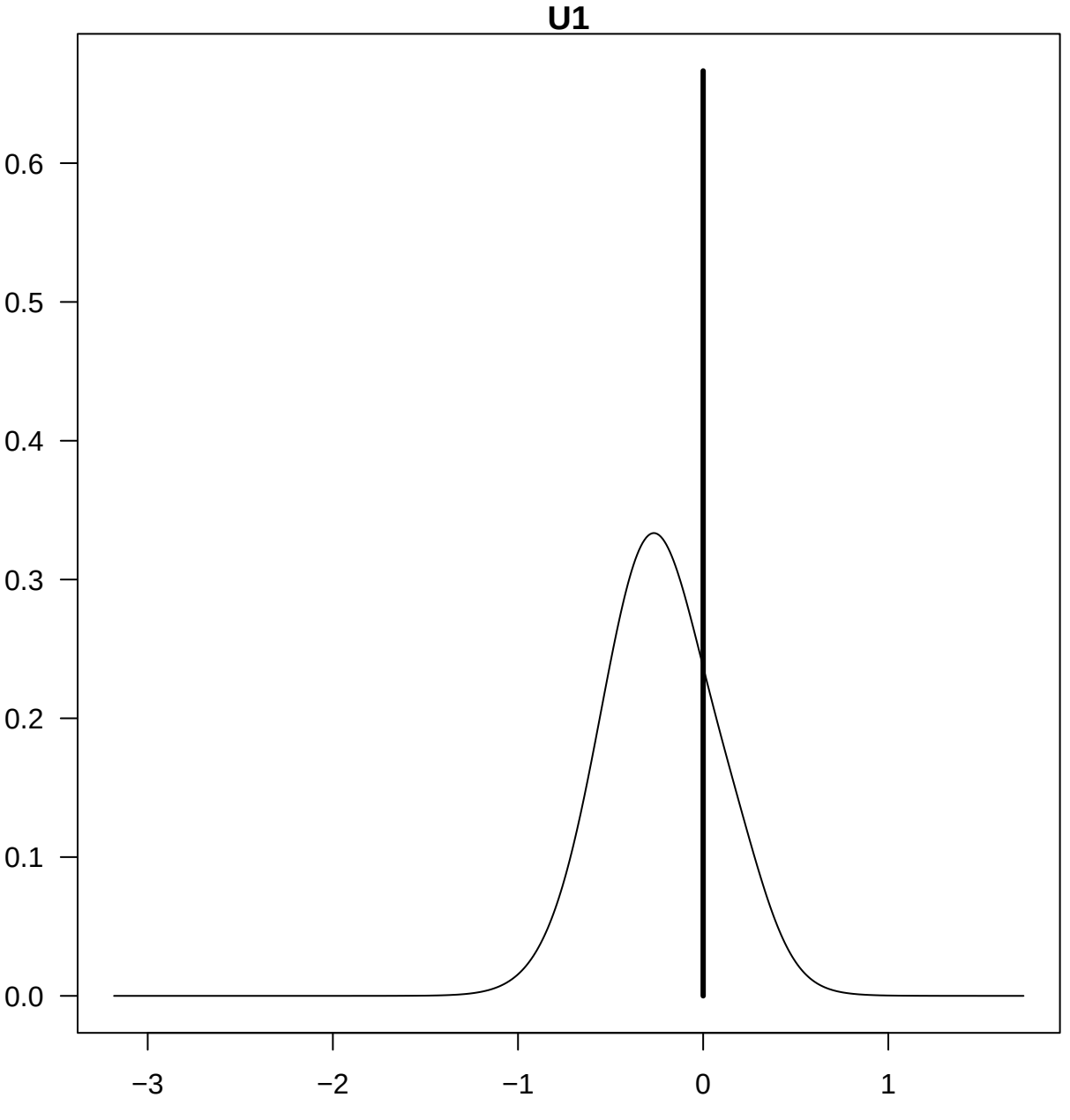

Po2
0.5
0.4
0.3
0.2
0.1
0.0
−4
−2
0
2
4

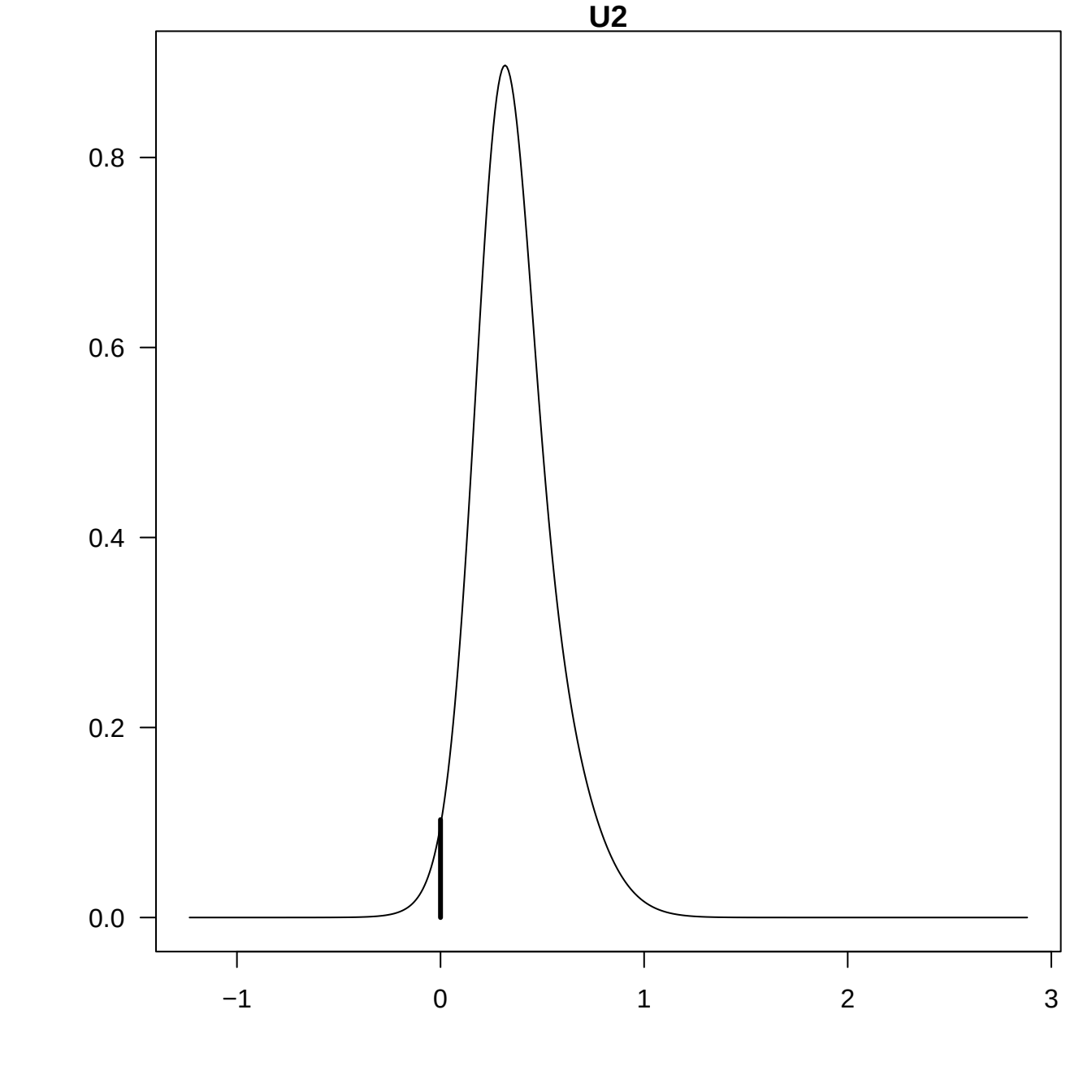

LF
0.6
0.4
0.2
0.0
−4
−2
0
2
4
6

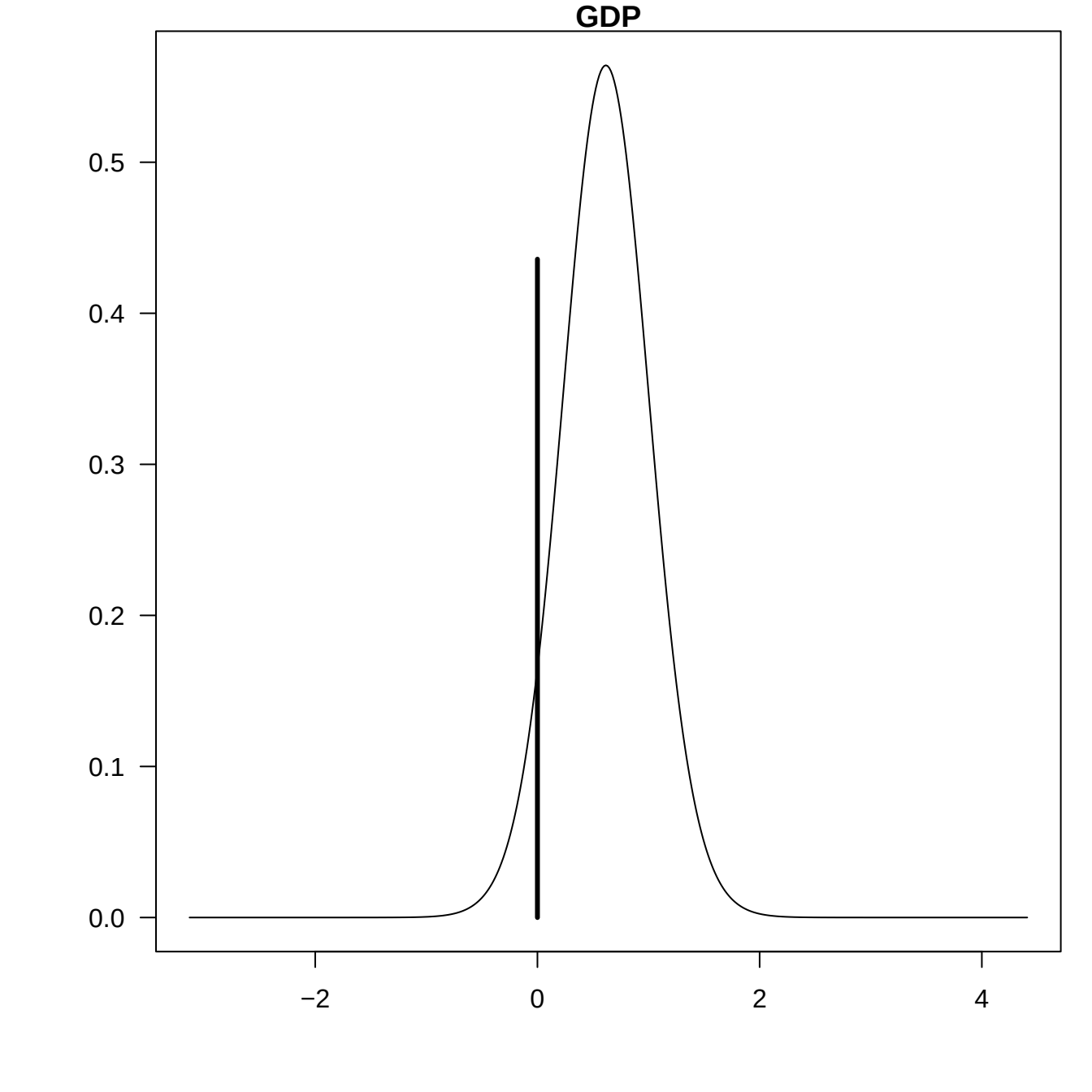

M.F
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−10
−5
0
5
10
15

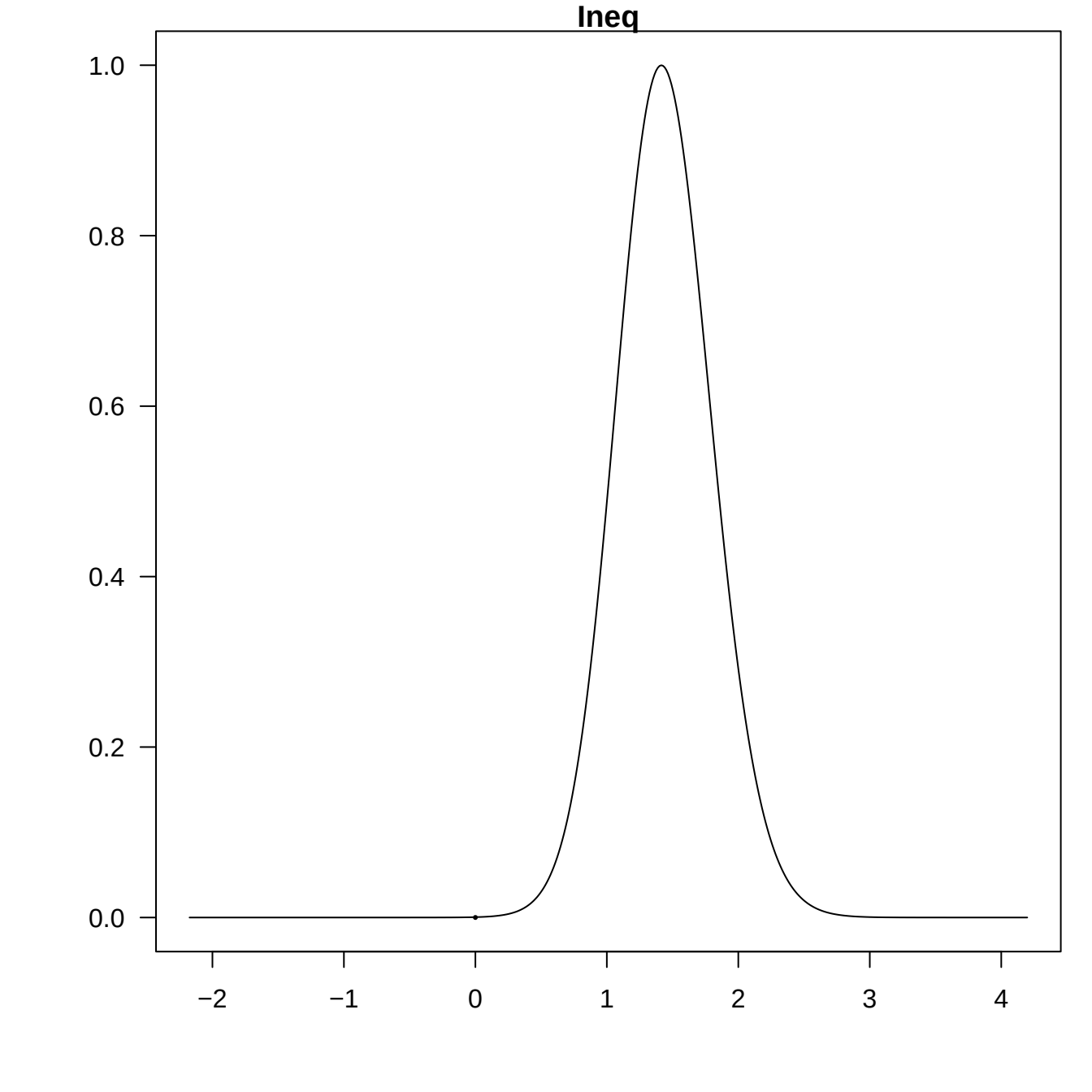

Pop
0.5
0.4
0.3
0.2
0.1
0.0
−0.2
0.0
0.2
0.4

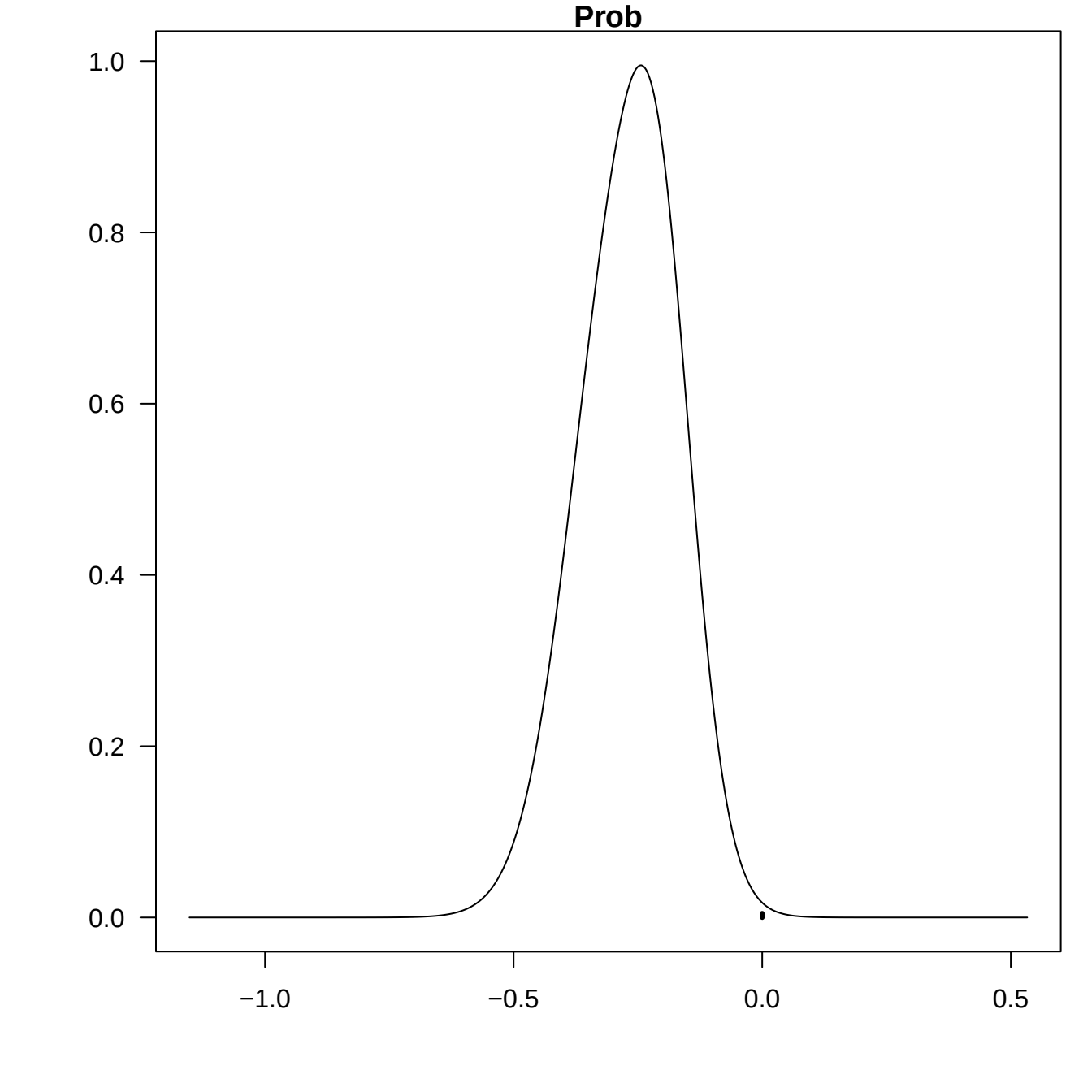

NW
0.8
0.6
0.4
0.2
0.0
−0.1
0.0
0.1
0.2
0.3
0.4
0.5

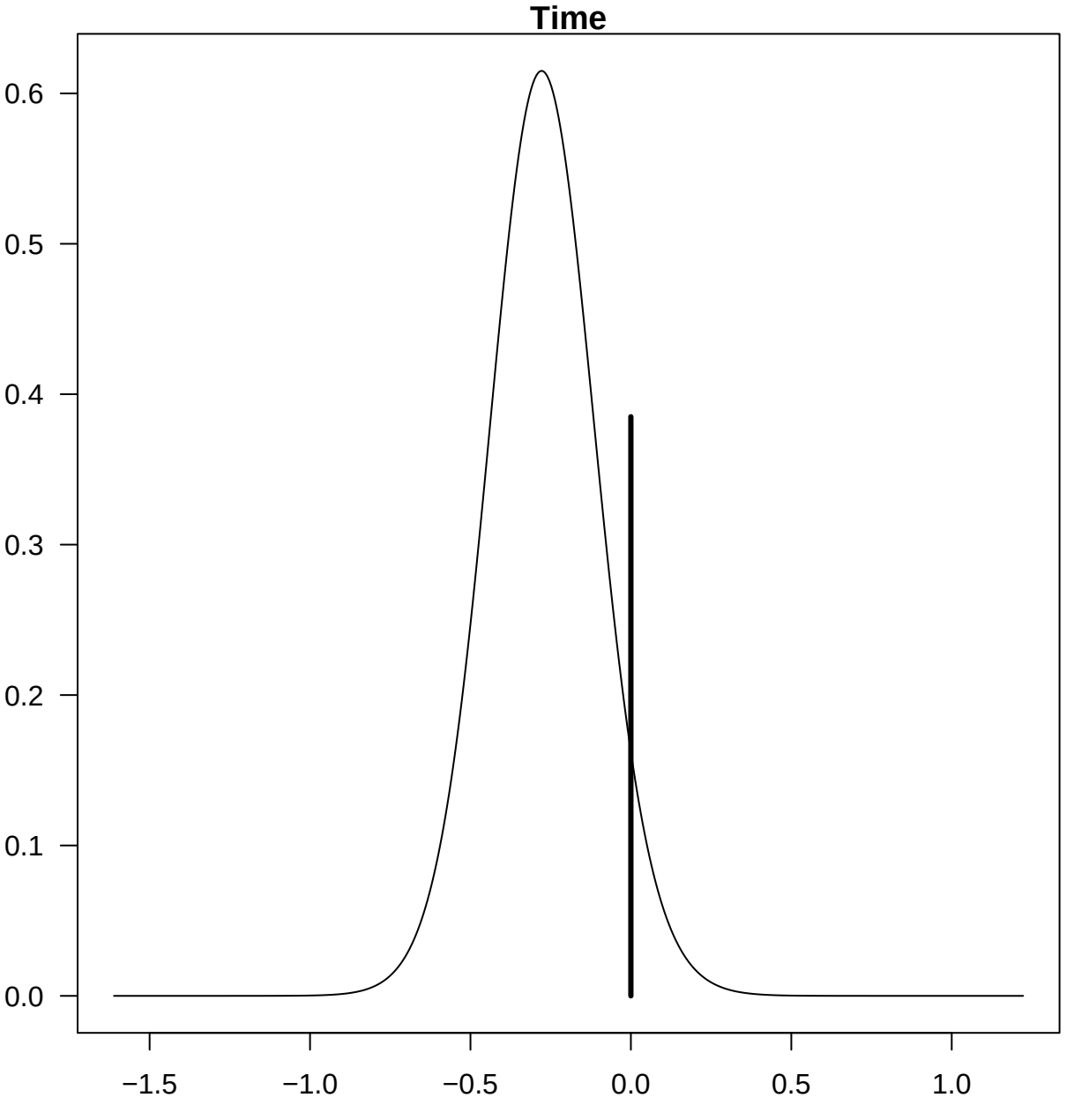

U1
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−3
−2
−1
0
1

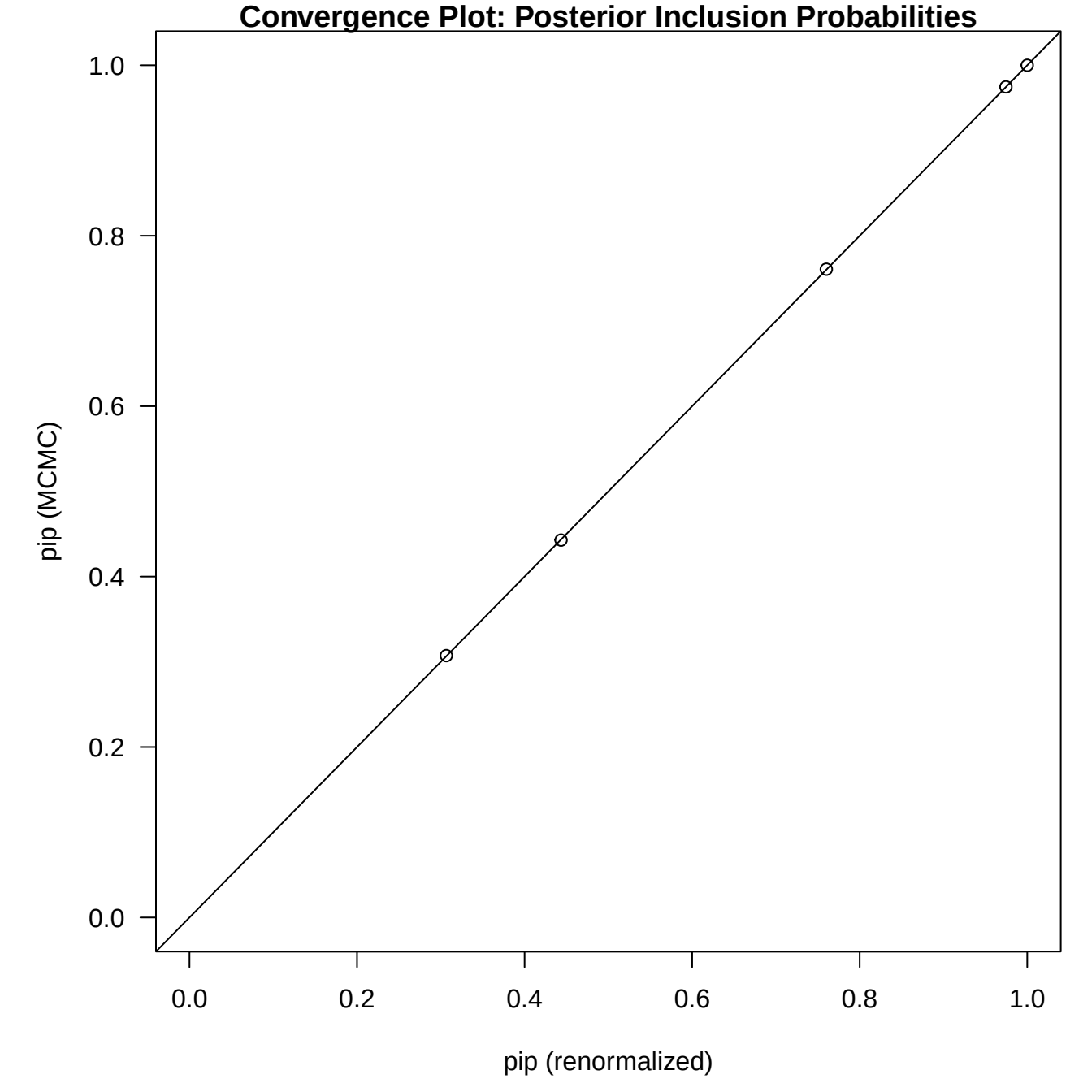

U2
0.8
0.6
0.4
0.2
0.0
−1
0
1
2
3

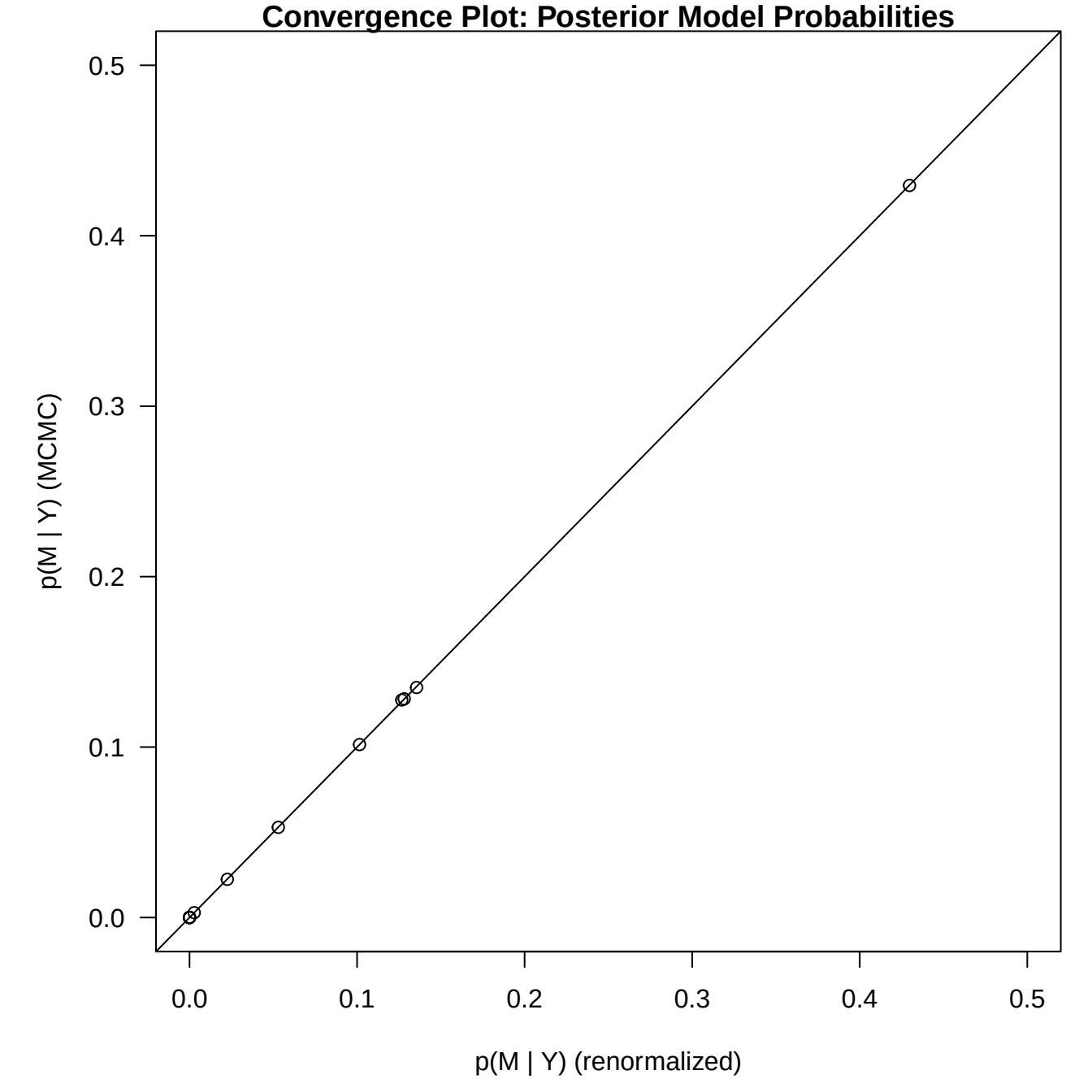

GDP
0.5
0.4
0.3
0.2
0.1
0.0
−2
0
2
4

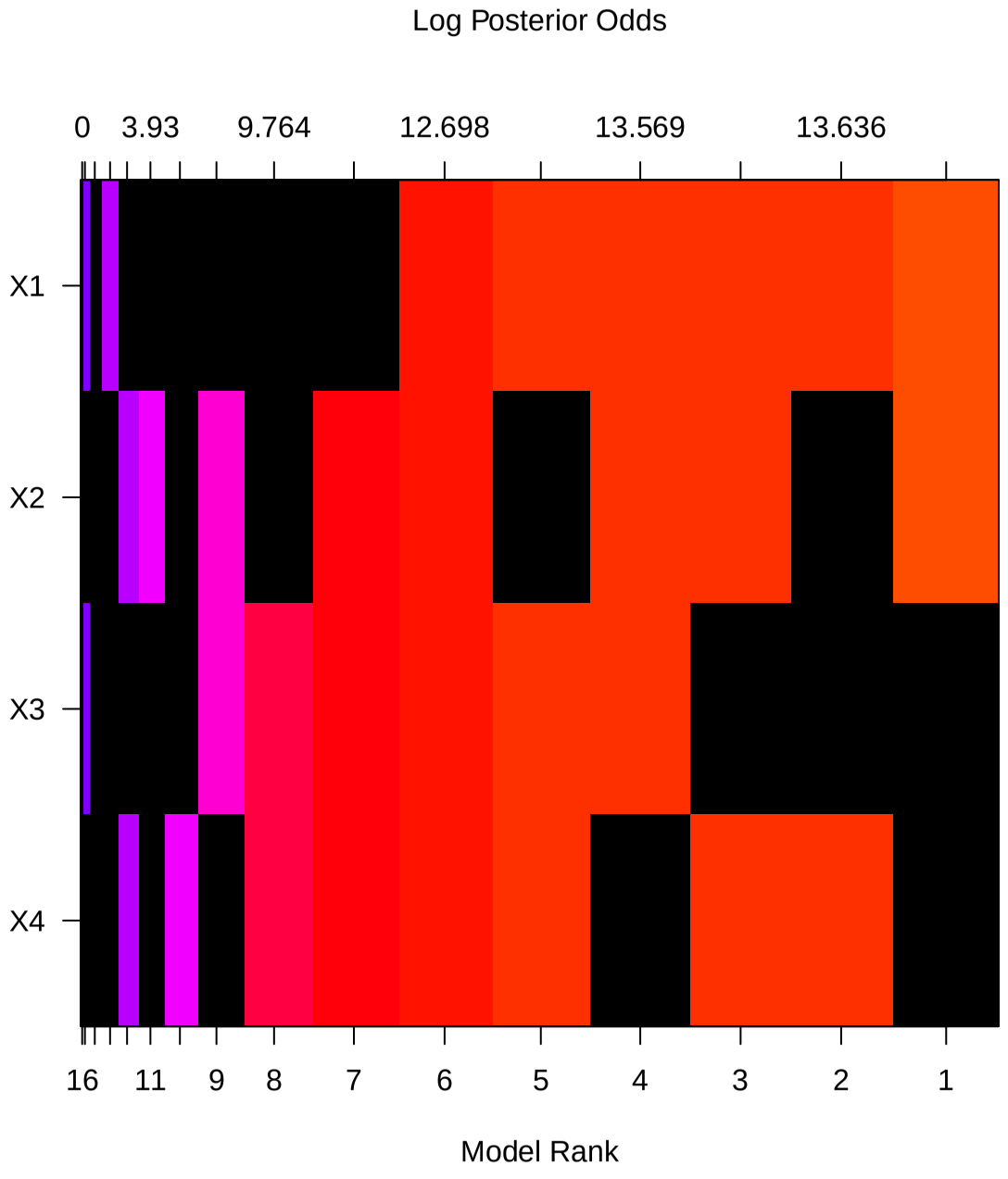

Ineq
1.0
0.8
0.6
0.4
0.2
0.0
−2
−1
0
1
2
3
4

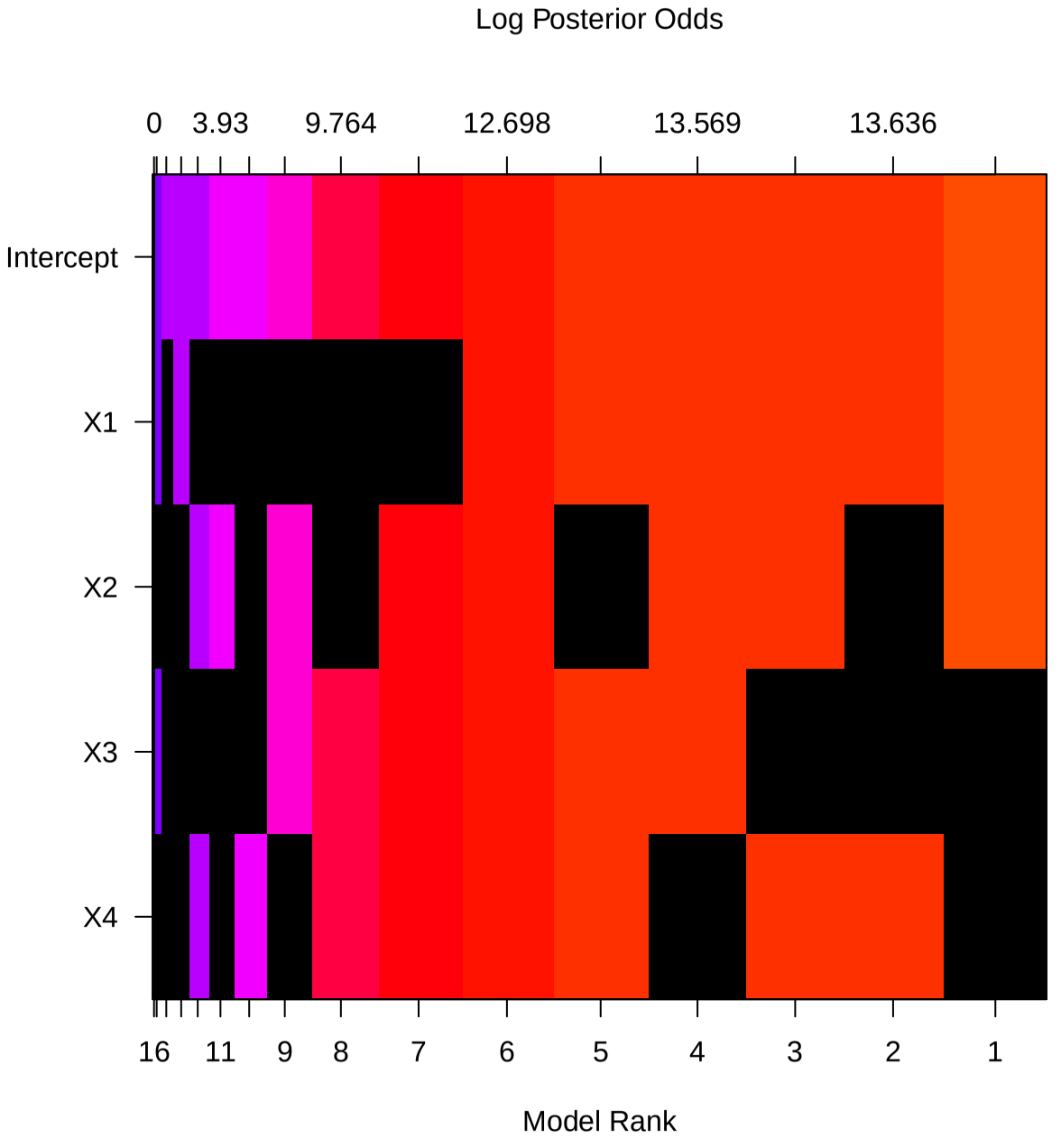

Prob
1.0
0.8
0.6
0.4
0.2
0.0
−1.0
−0.5
0.0
0.5

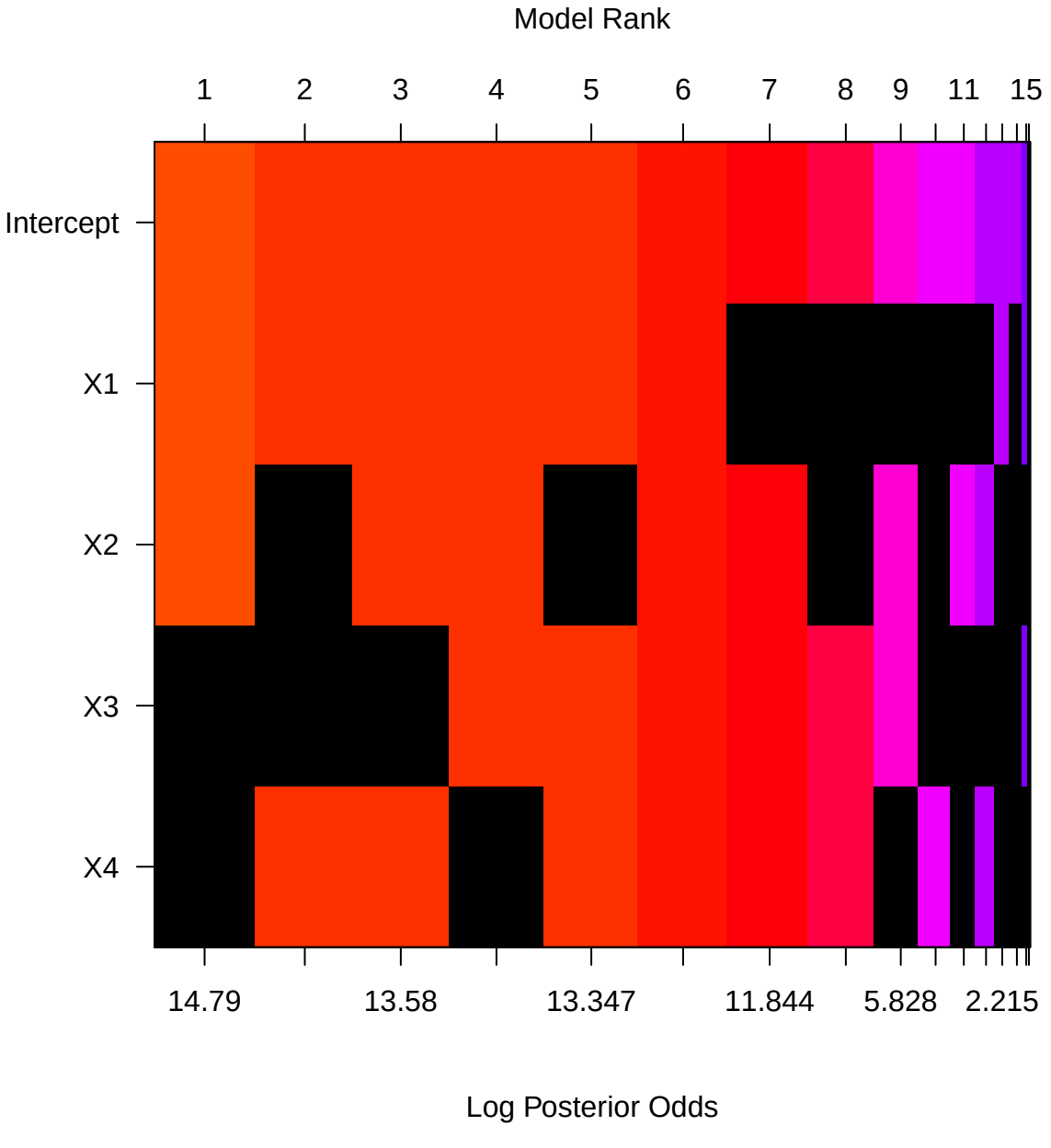

Time
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−1.5
−1.0
−0.5
0.0
0.5
1.0

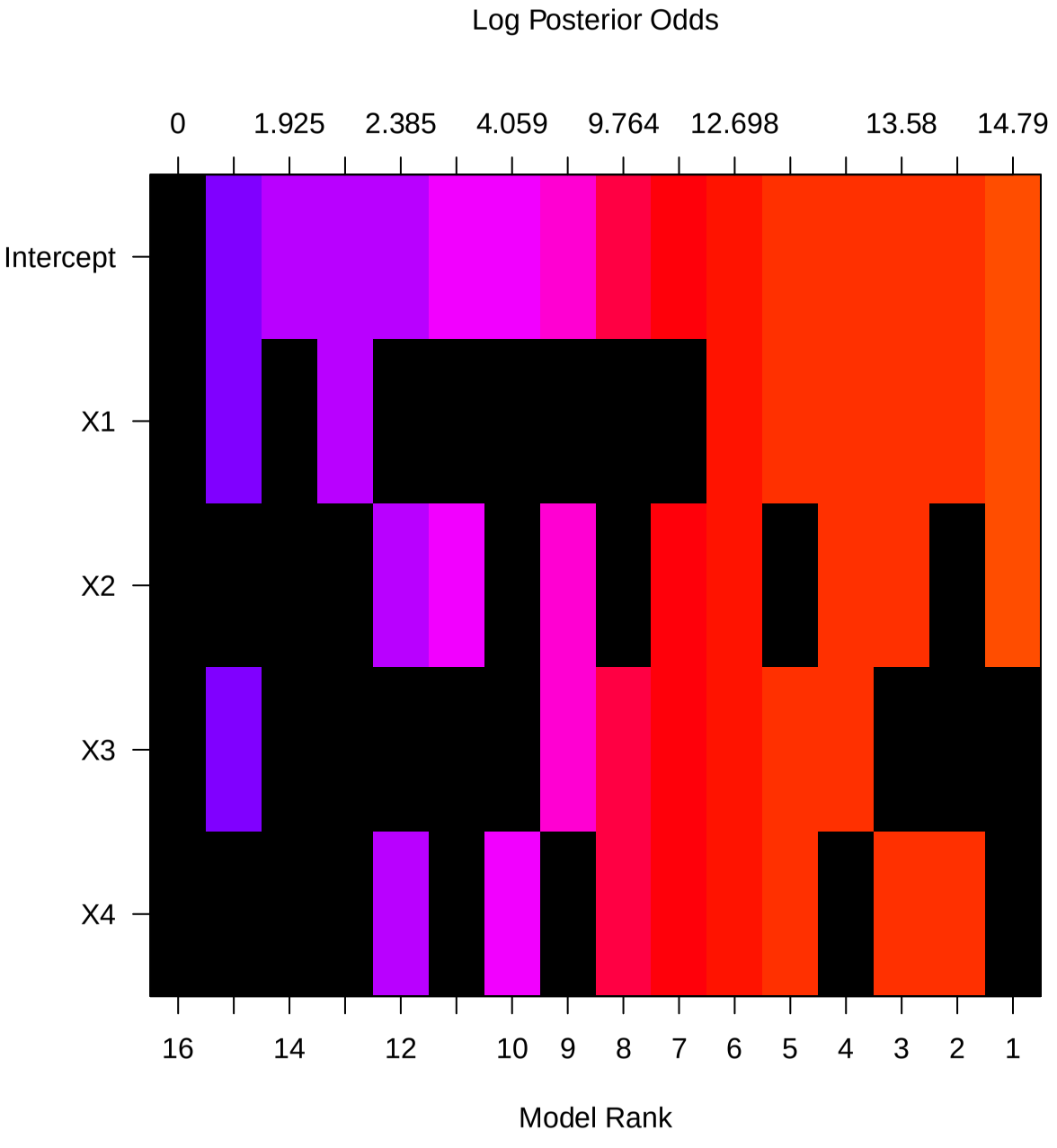

Convergence Plot: Posterior Inclusion Probabilities
pip (MCMC)
pip (renormalized)
0.0
0.2
0.4
0.6
0.8
1.0

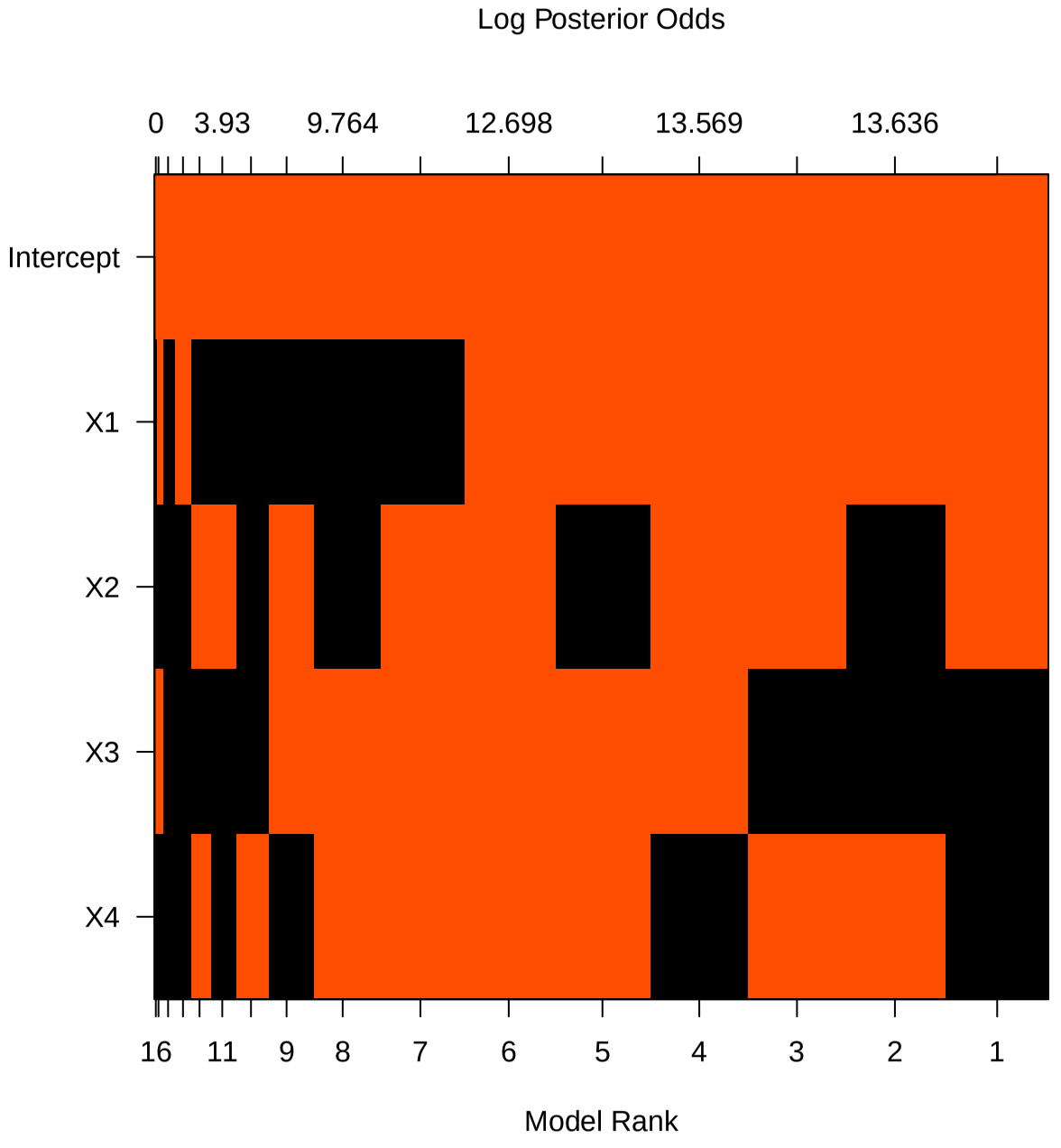

Convergence Plot: Posterior Model Probabilities
p(M | Y) (MCMC)
p(M | Y) (renormalized)
0.0
0.1
0.2
0.3
0.4
0.5

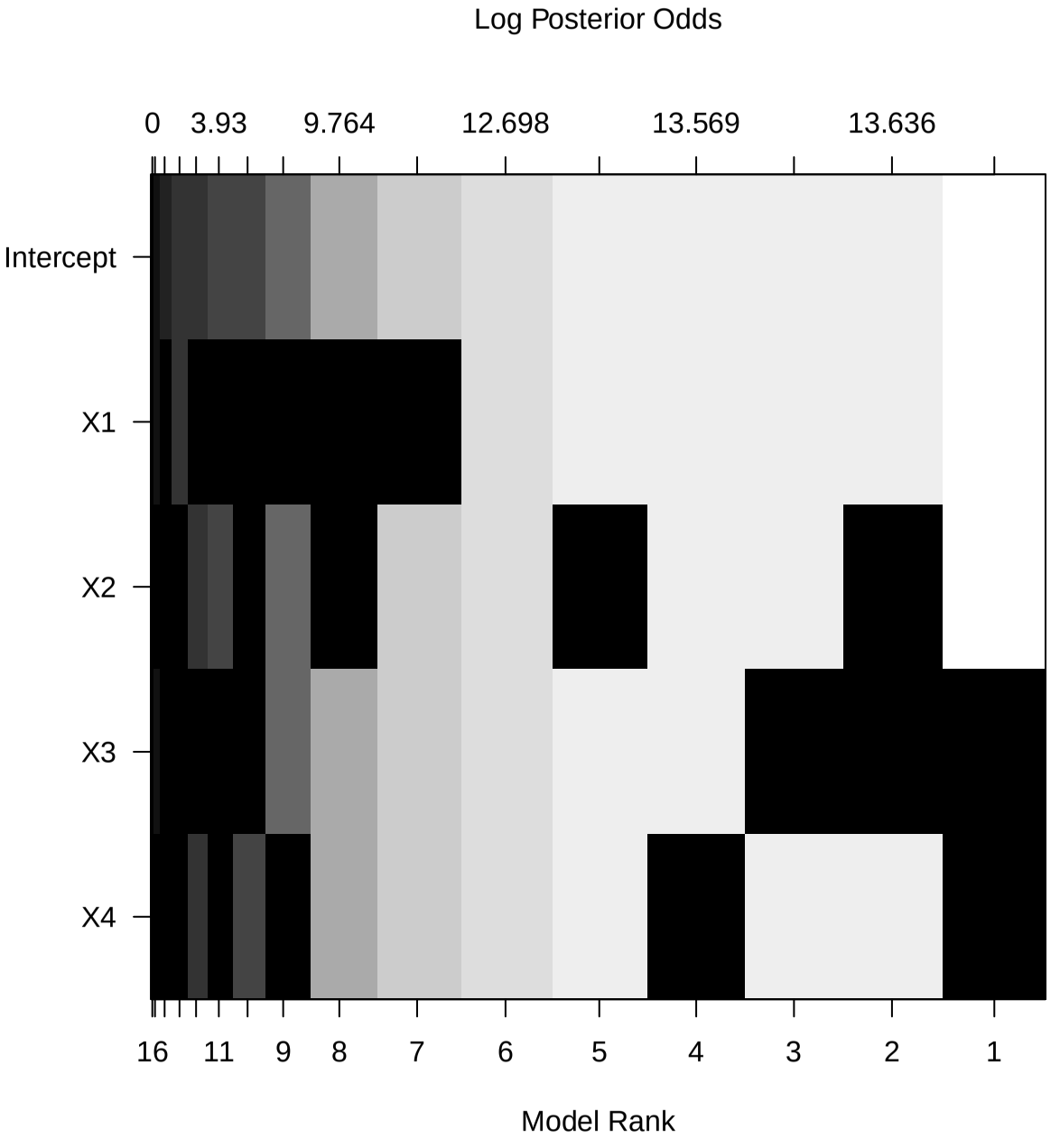

Log Posterior Odds
0
3.93
9.764
12.698
13.569
13.636
X1
X2
X3
X4
16
11
9
8
7
6
5
4
3
2
1
Model Rank

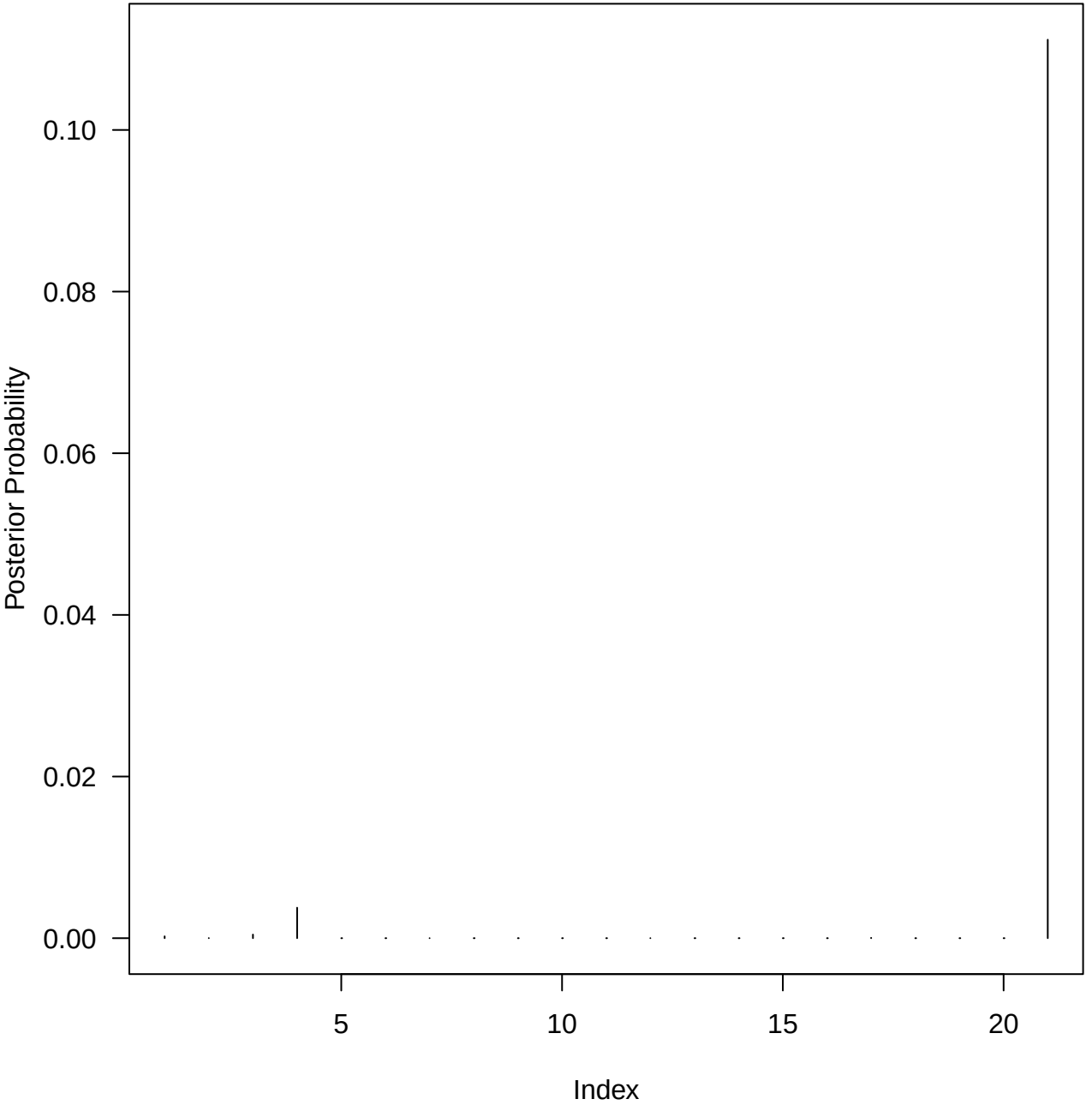

Log Posterior Odds
0
3.93
9.764
12.698
13.569
13.636
Intercept
X1
X2
X3
X4
16
11
9
8
7
6
5
4
3
2
1
Model Rank

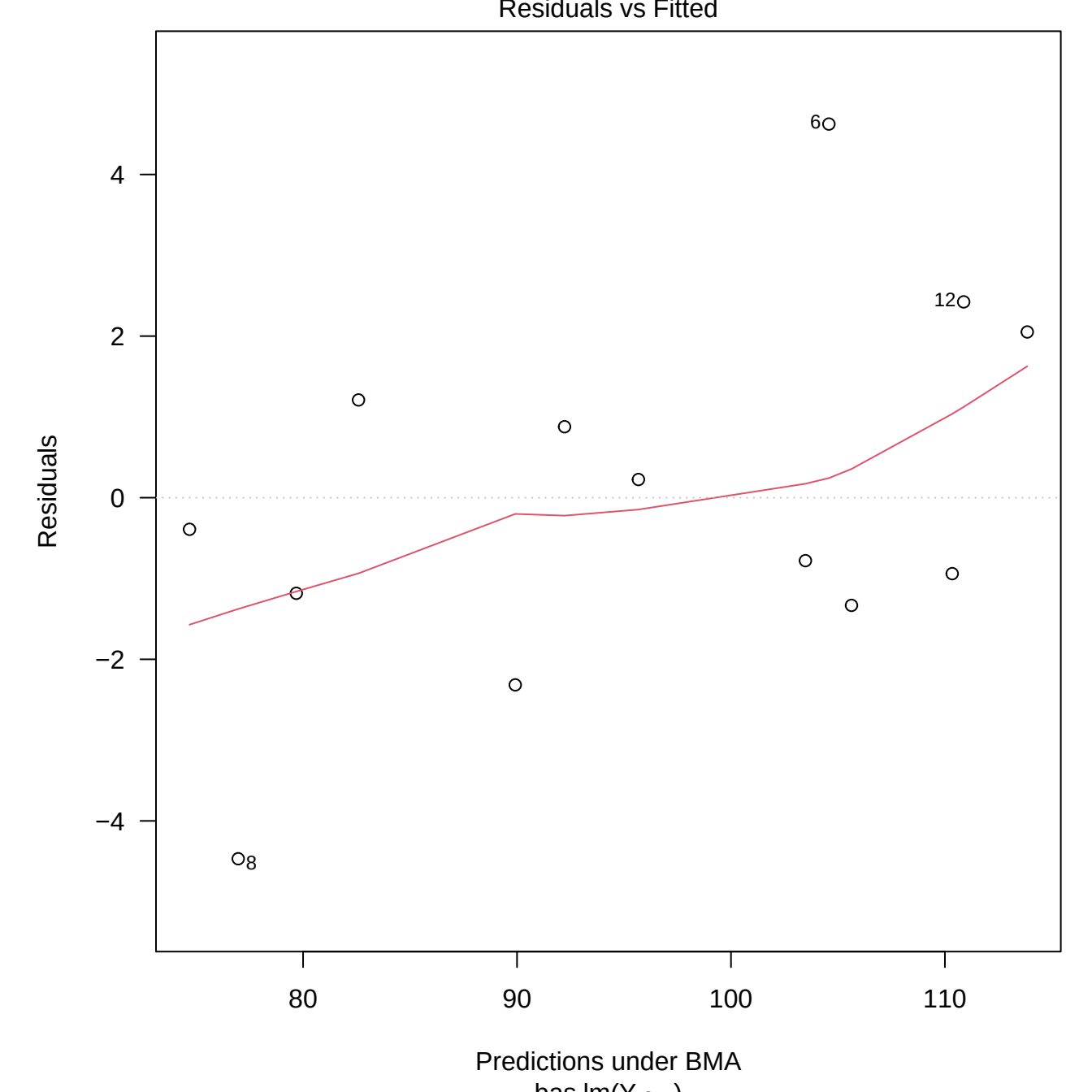

Model Rank
1
2
3
4
5
6
7
8
9
11
15
Intercept
X1
X2
X3
X4
14.79
13.58
13.347
11.844
5.828
2.215
Log Posterior Odds

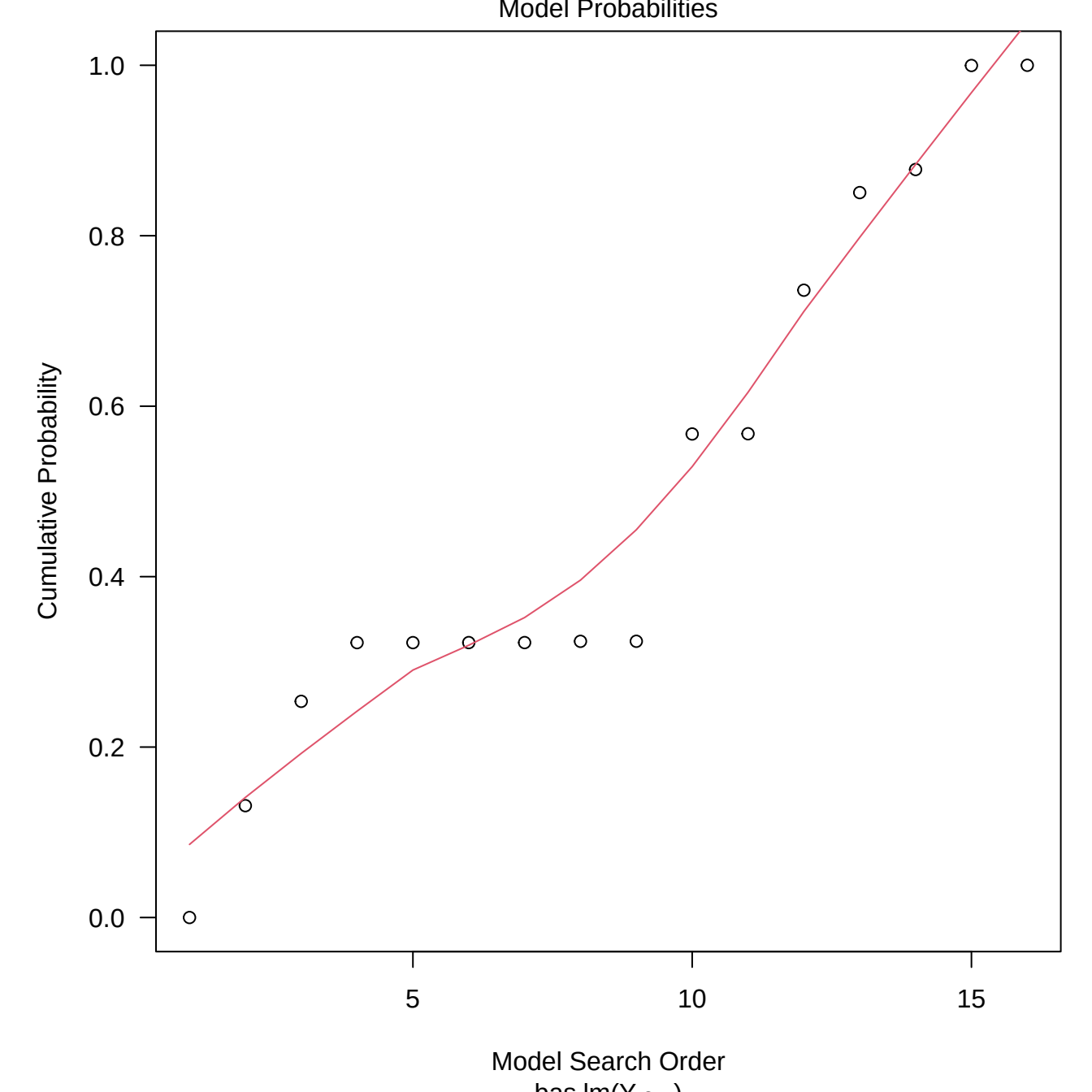

Log Posterior Odds
0
1.925
2.385
4.059
9.764
12.698
13.58
14.79
Intercept
X1
X2
X3
X4
16
14
12
10
9
8
7
6
5
4
3
2
1
Model Rank

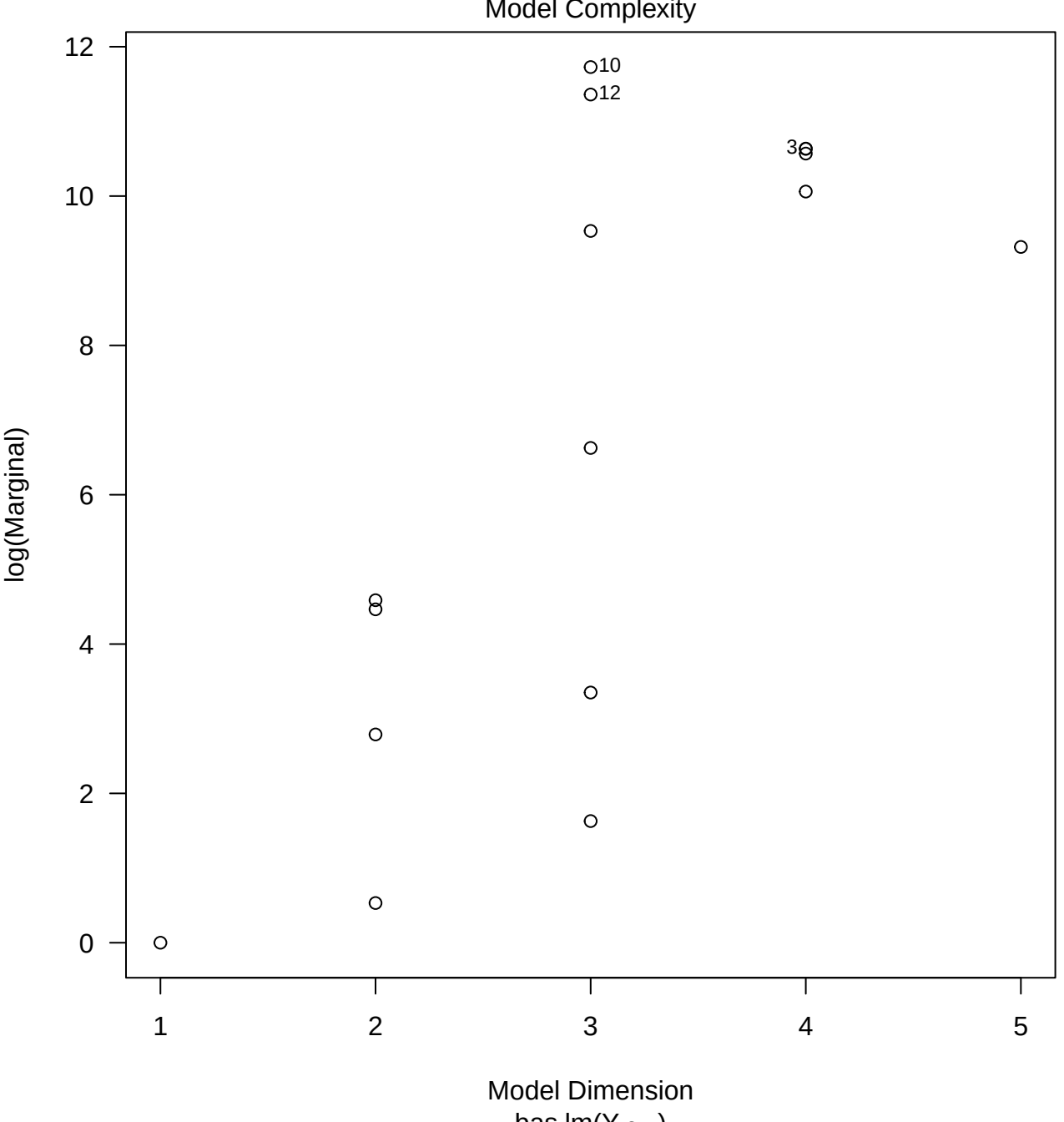

Log Posterior Odds
0
3.93
9.764
12.698
13.569
13.636
Intercept
X1
X2
X3
X4
16
11
9
8
7
6
5
4
3
2
1
Model Rank

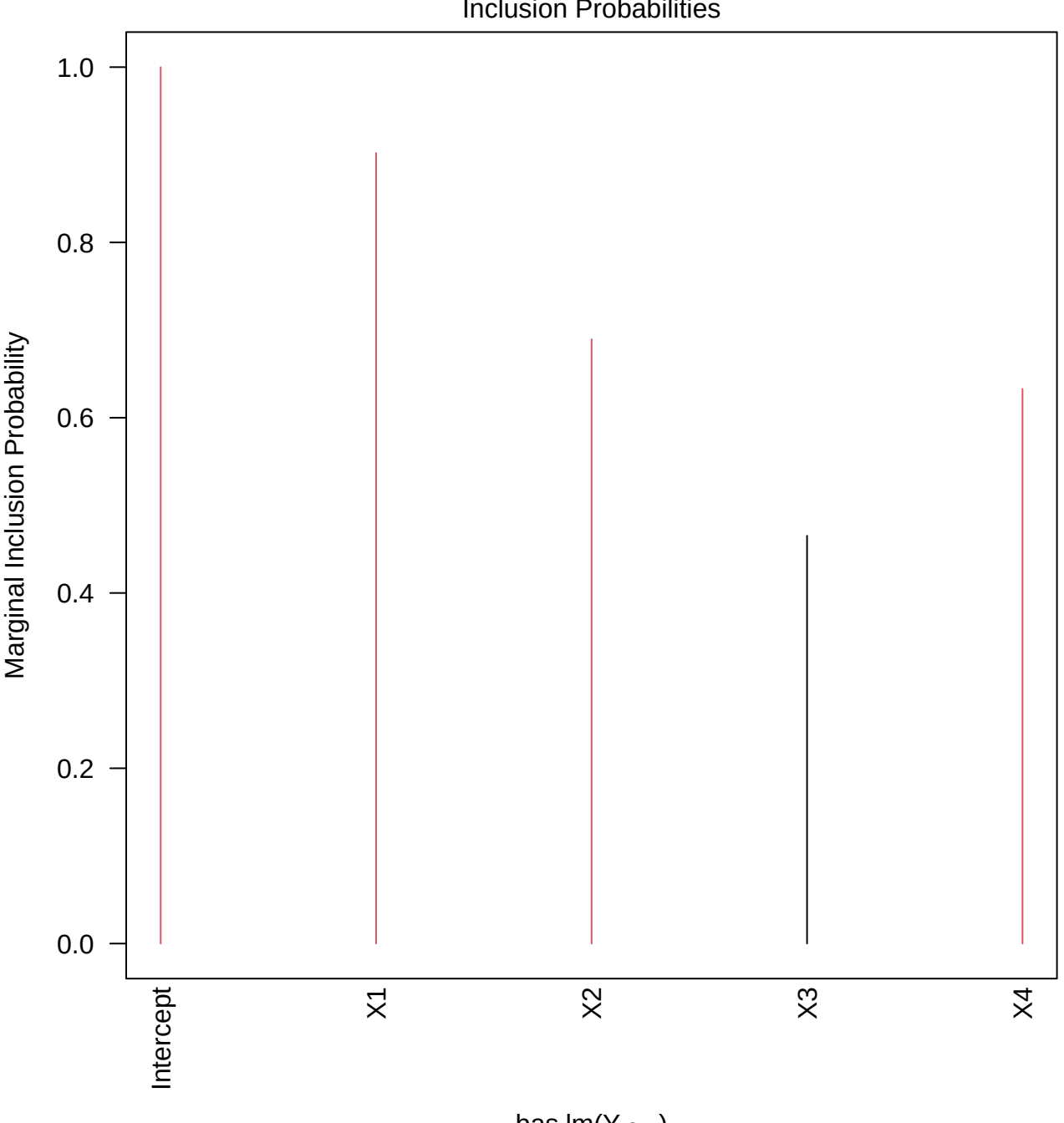

Log Posterior Odds
0
3.93
9.764
12.698
13.569
13.636
Intercept
X1
X2
X3
X4
16
11
9
8
7
6
5
4
3
2
1
Model Rank

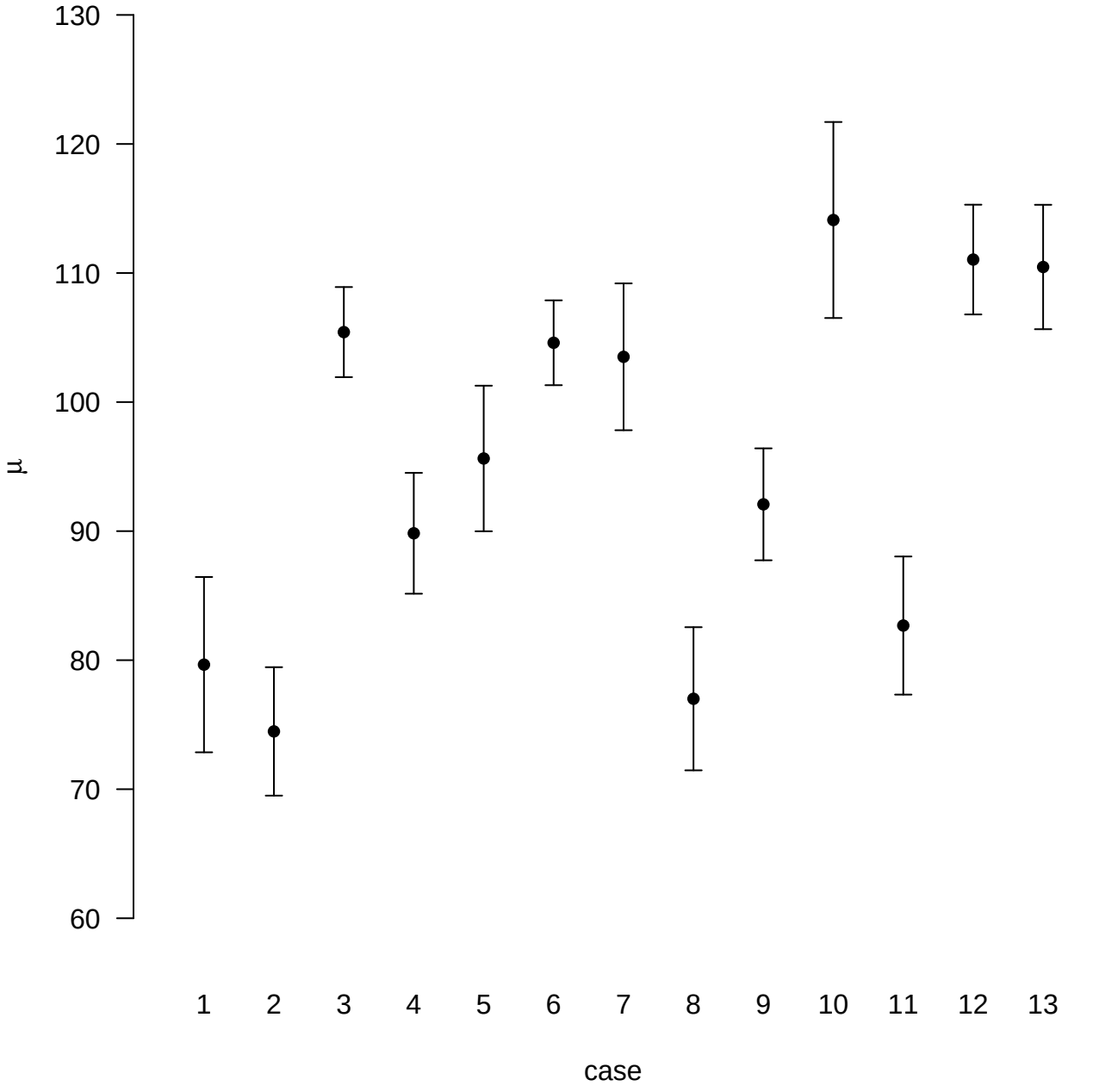

0.10
0.08
0.06
0.04
0.02
0.00
Posterior Probability
5
10
15
20
Index

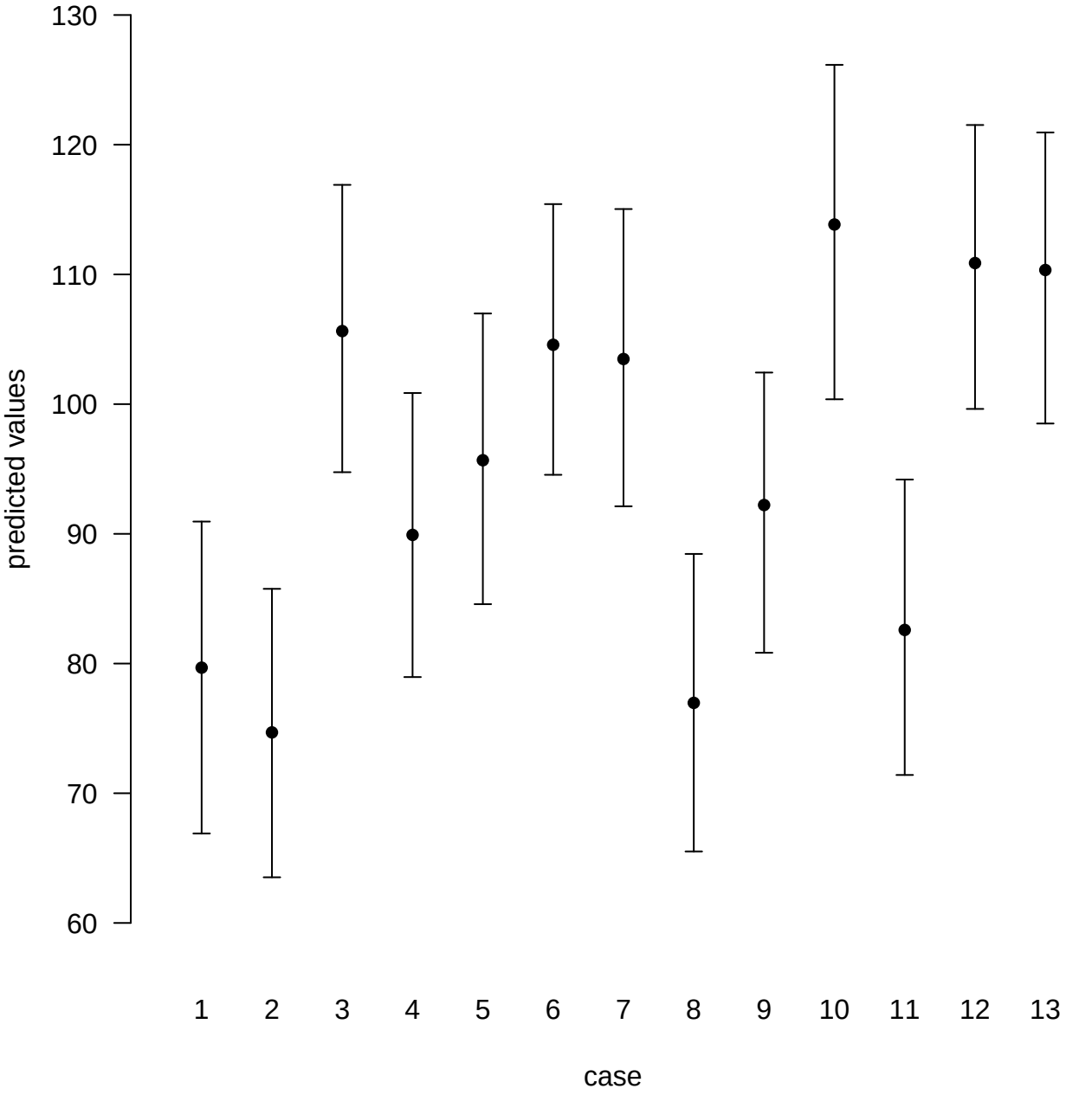

Residuals vs Fitted
Residuals
Predictions under BMA
6
12
8
4
2
0
−2
−4
80
90
100
110


Model Probabilities
Cumulative Probability
1.0
0.8
0.6
0.4
0.2
0.0
5
10
15
Model Search Order


Model Complexity
log(Marginal)
Model Dimension
12
10
8
6
4
2
0
1
2
3
4
5
10
12
3


Inclusion Probabilities
Marginal Inclusion Probability
1.0
0.8
0.6
0.4
0.2
0.0
Intercept
X1
X2
X3
X4


130
120
110
100
90
80
70
60
μ
1
2
3
4
5
6
7
8
9
10
11
12
13
case


130
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predicted values
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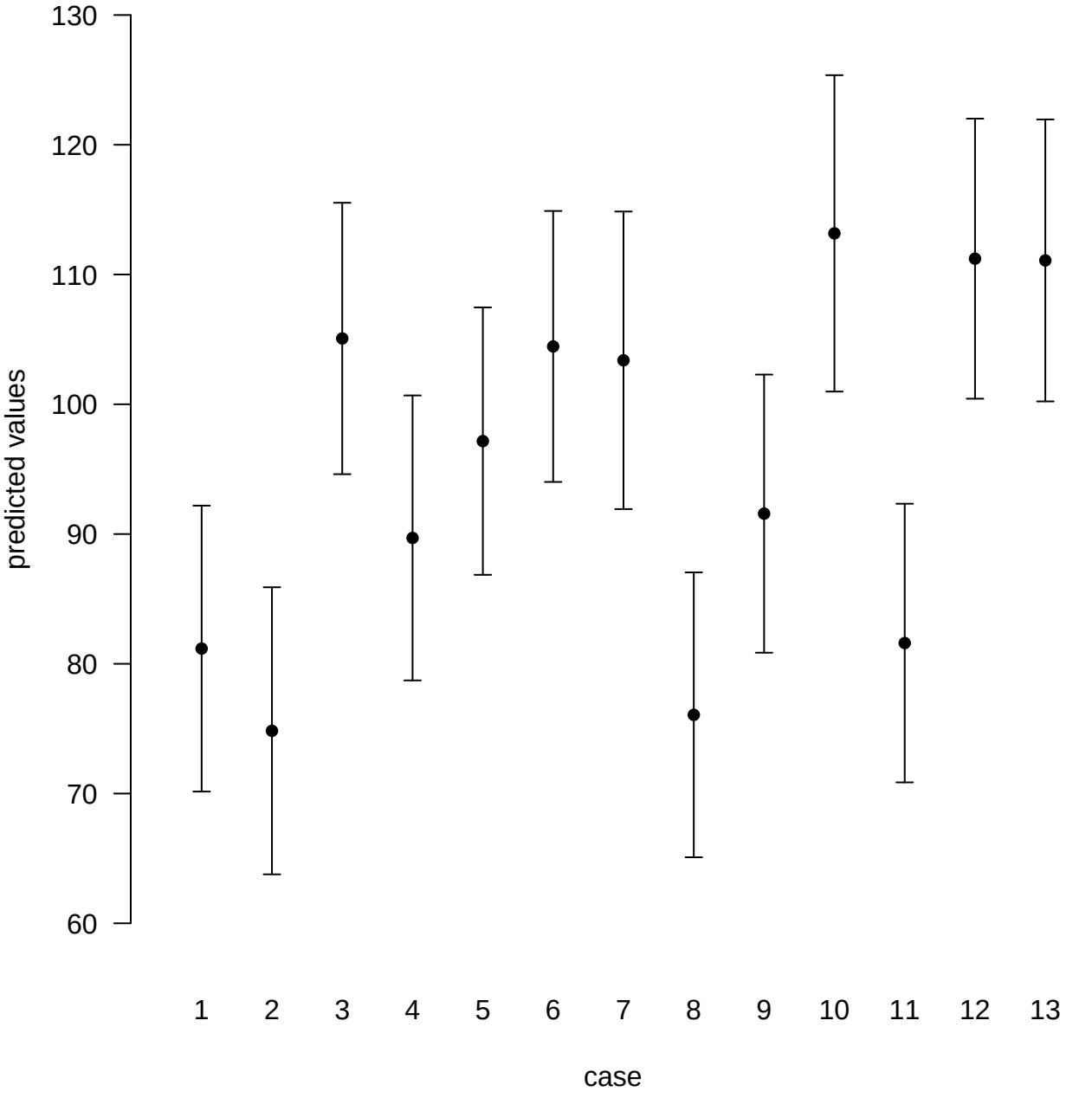
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case