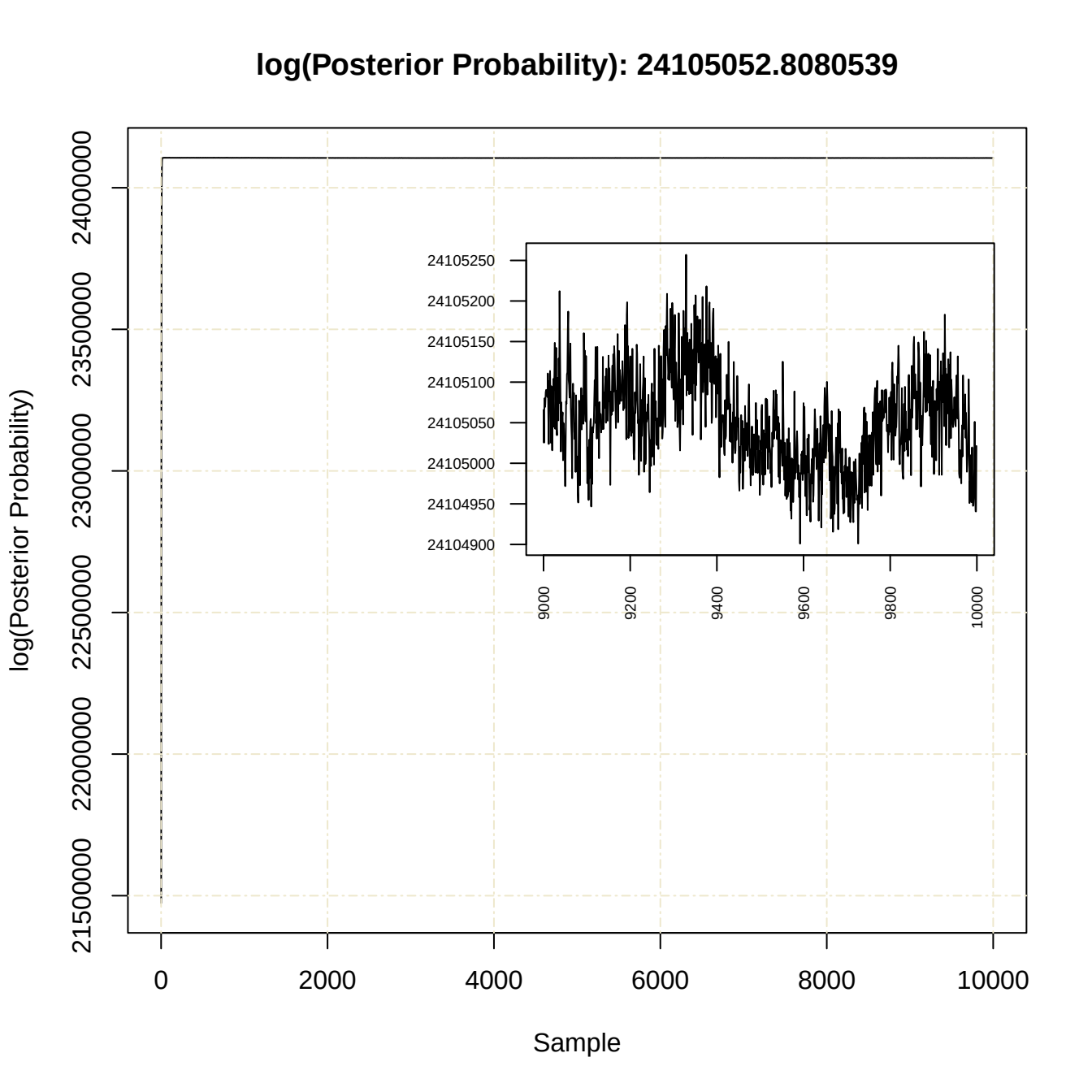
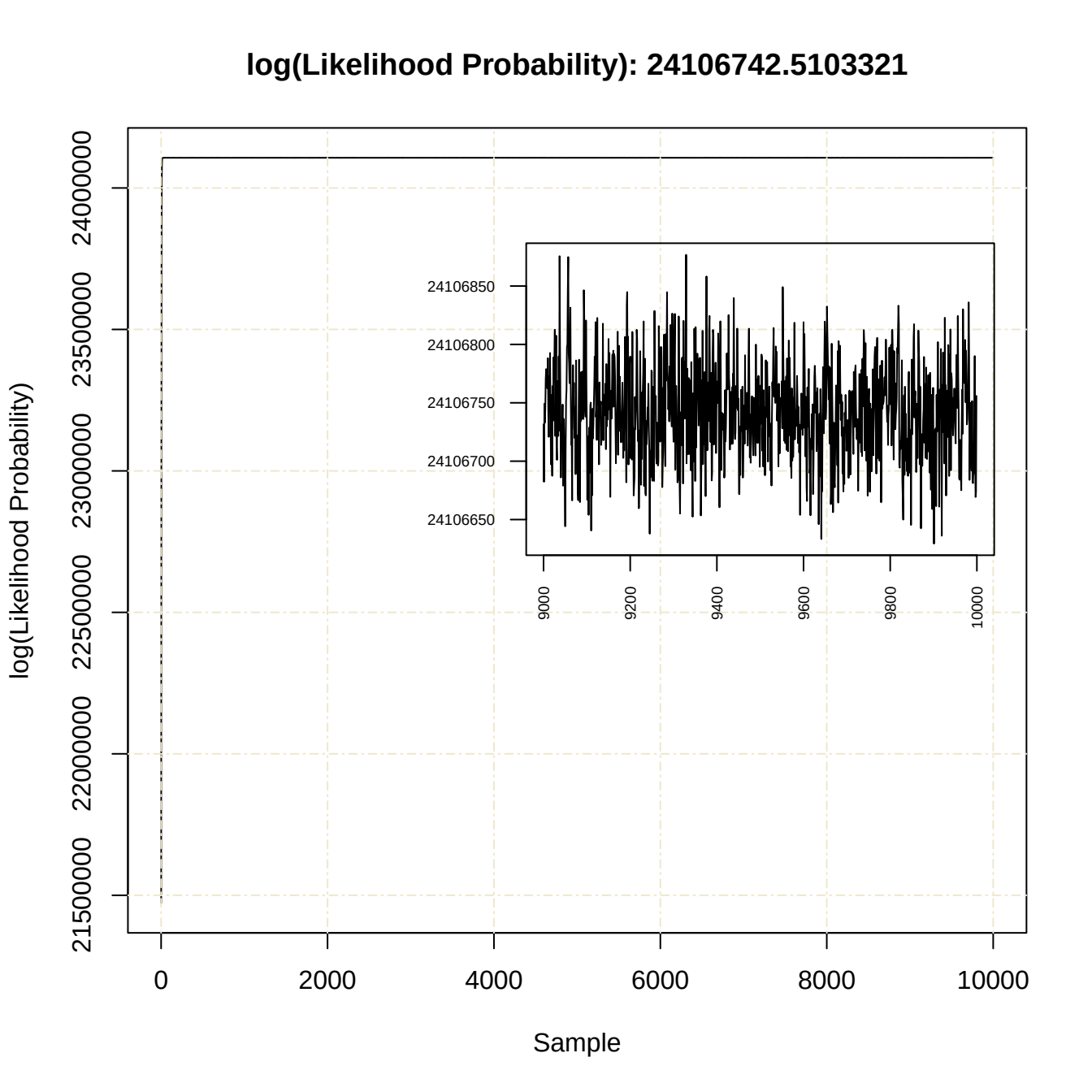
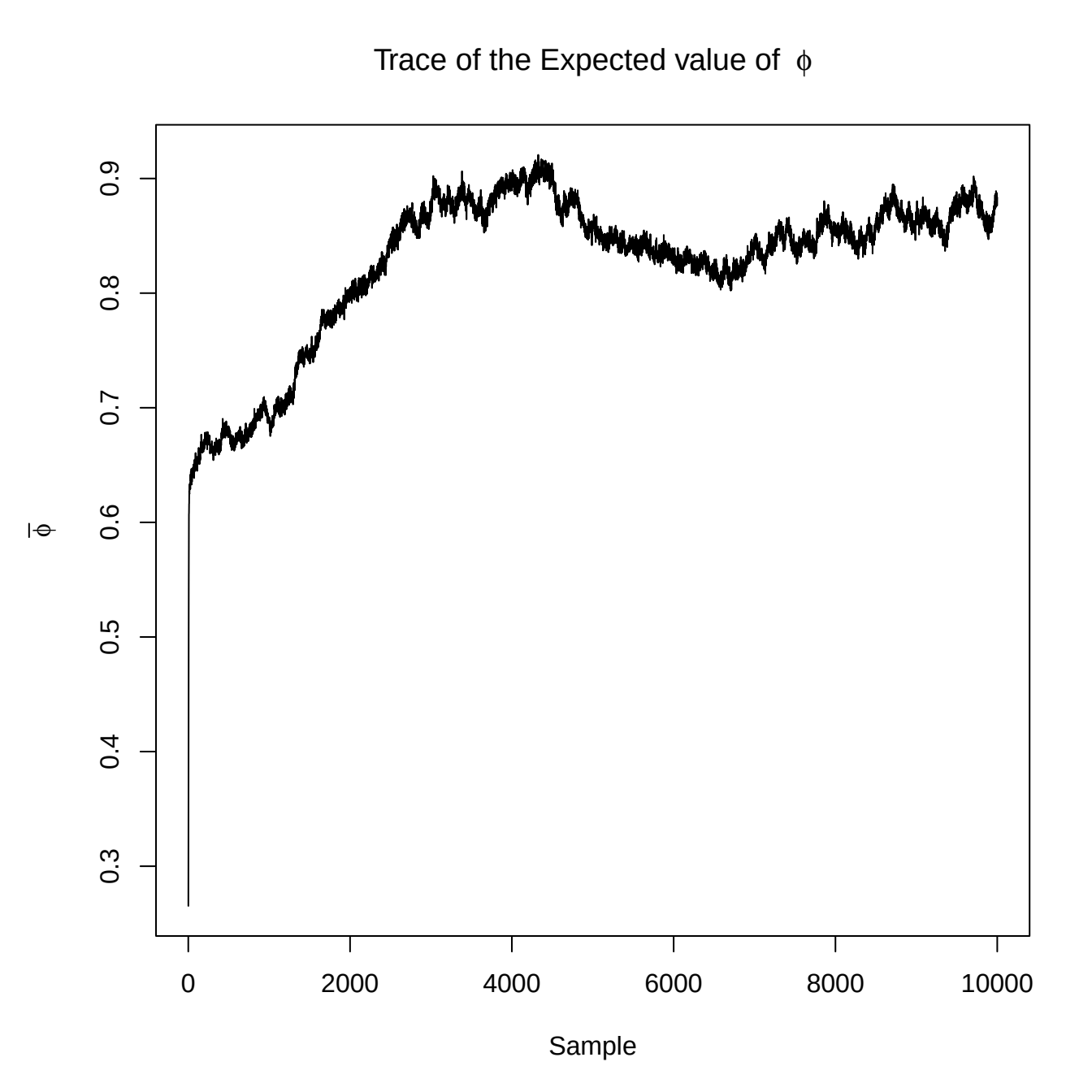
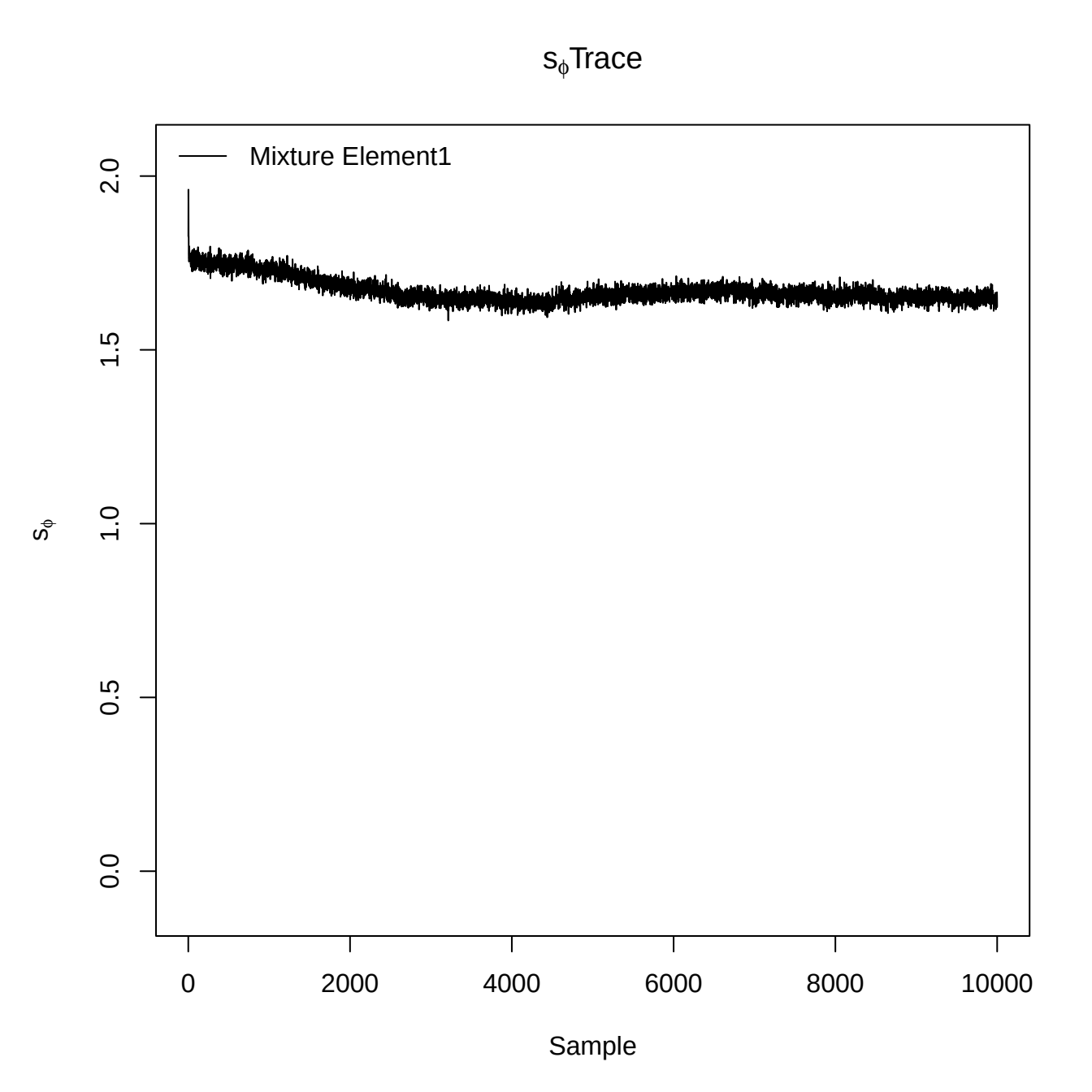
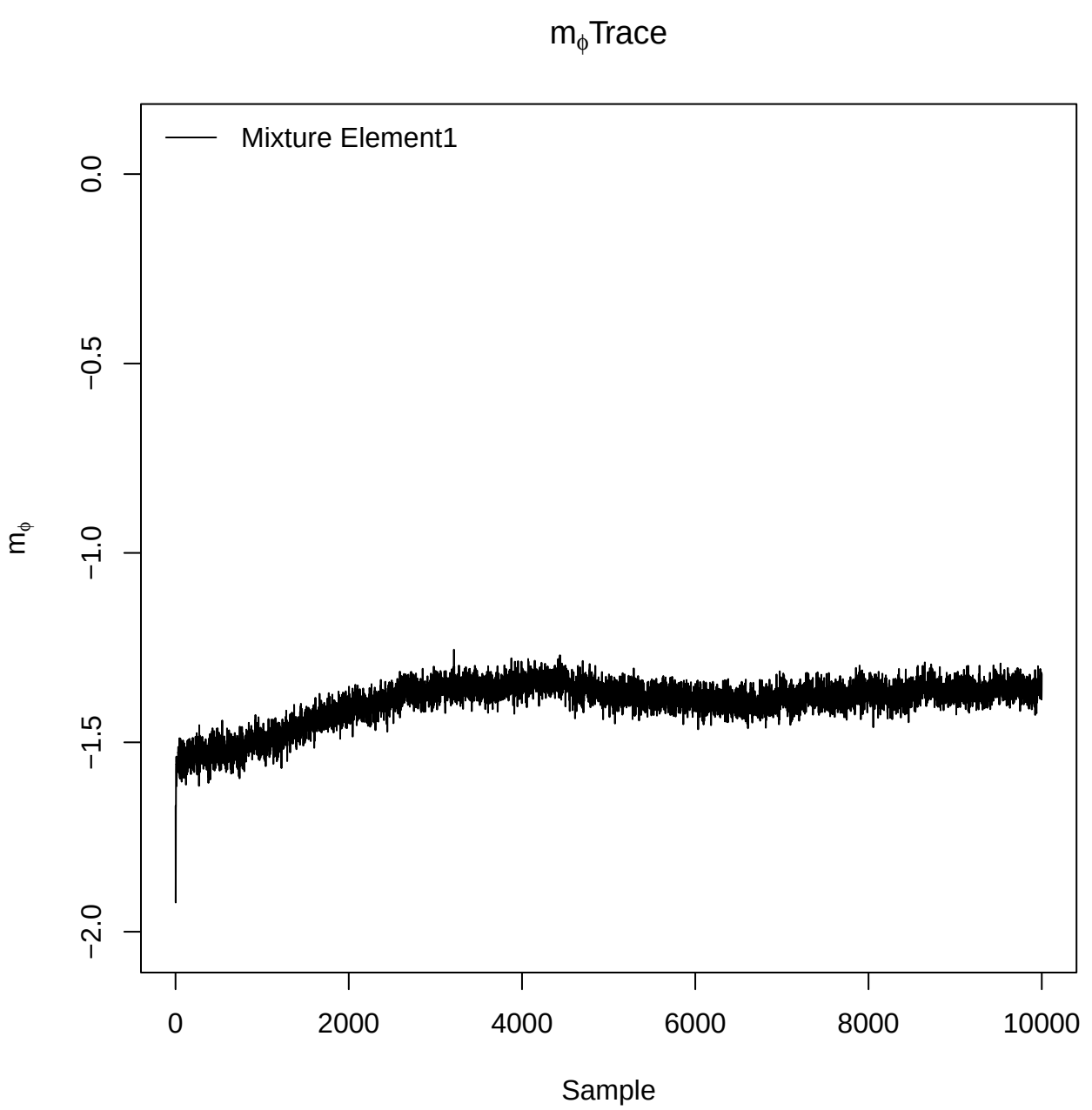
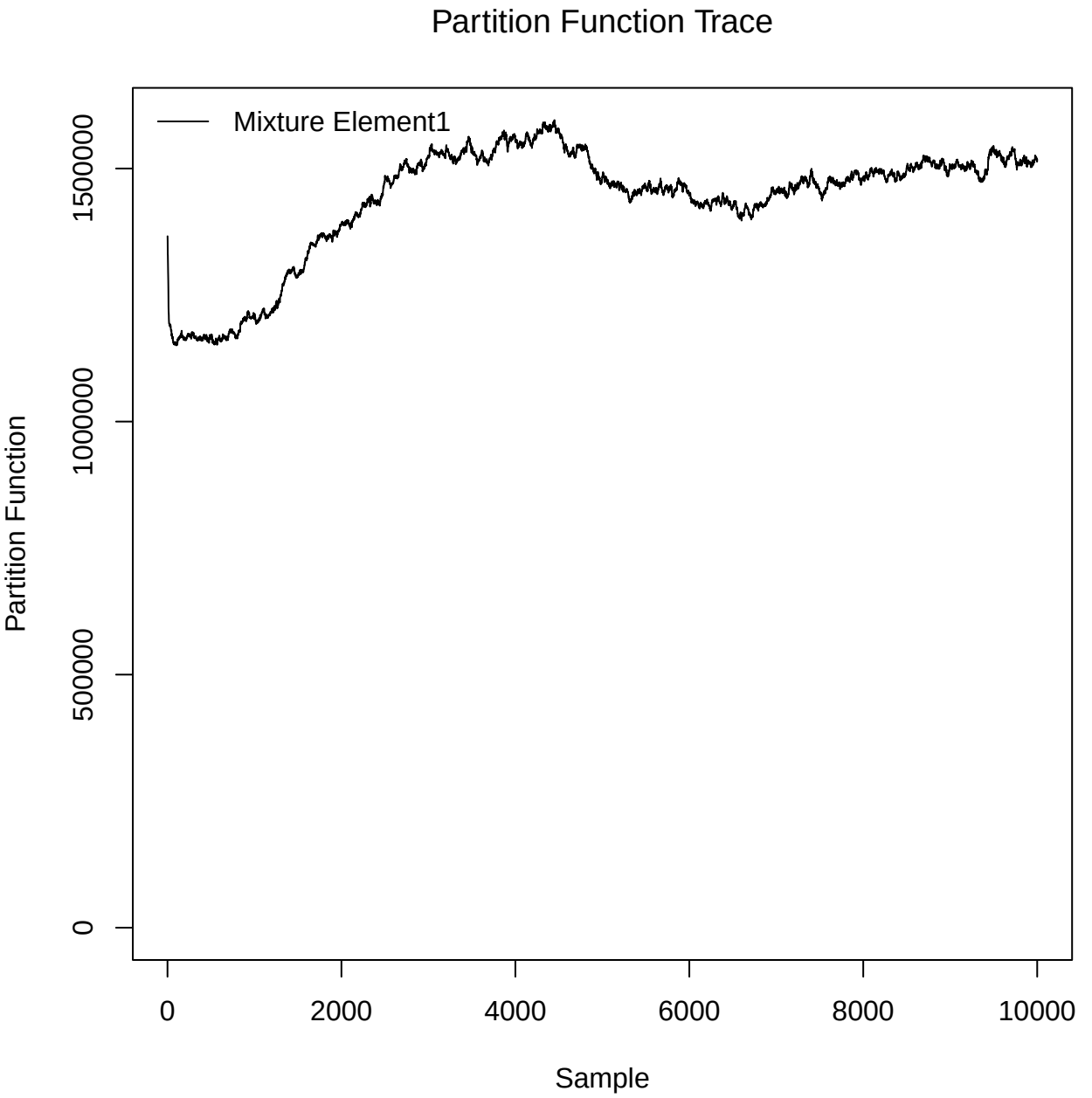

log(Posterior Probability): 24105052.8080539
log(Posterior Probability)
21500000
22000000
22500000
23000000
23500000
24000000
0
2000
4000
6000
8000
10000
Sample
24105250
24105200
24105150
24105100
24105050
24105000
24104950
24104900
9000
9200
9400
9600
9800
10000

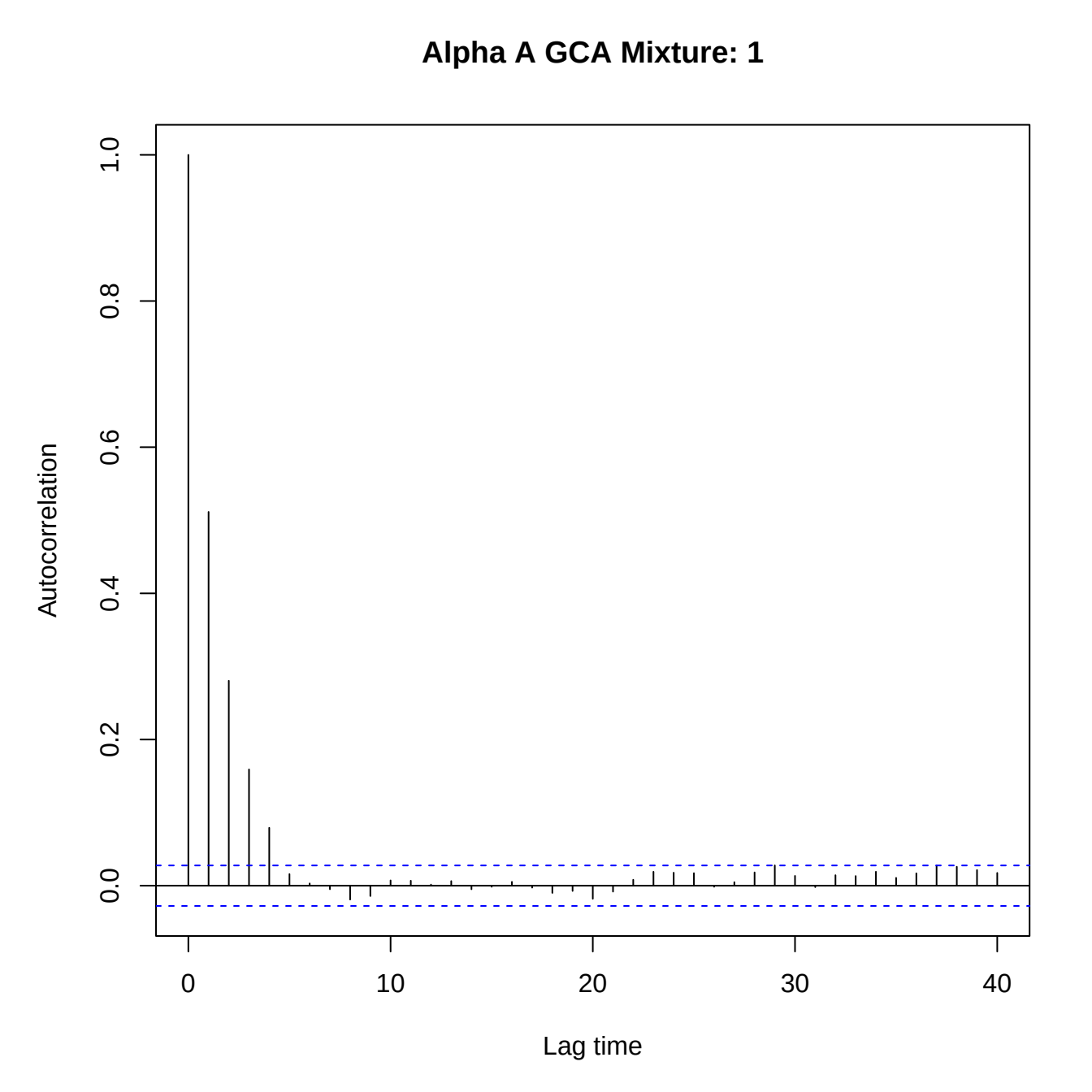

log(Likelihood Probability): 24106742.5103321
log(Likelihood Probability)
21500000
22000000
22500000
23000000
23500000
24000000
0
2000
4000
6000
8000
10000
Sample
24106850
24106800
24106750
24106700
24106650
9000
9200
9400
9600
9800
10000

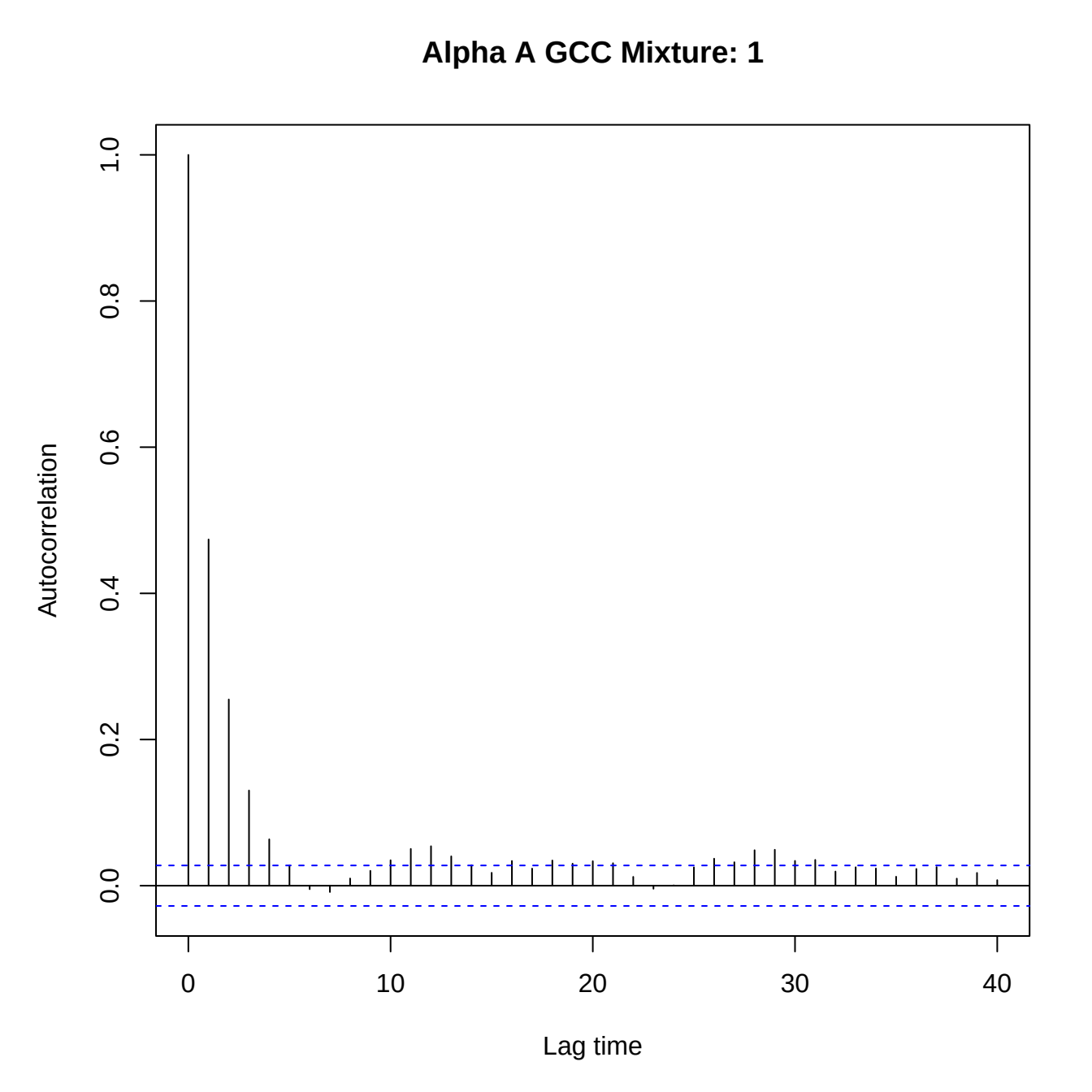

Trace of the Expected value of ϕ
$\overline{\phi}$
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0
2000
4000
6000
8000
10000
Sample

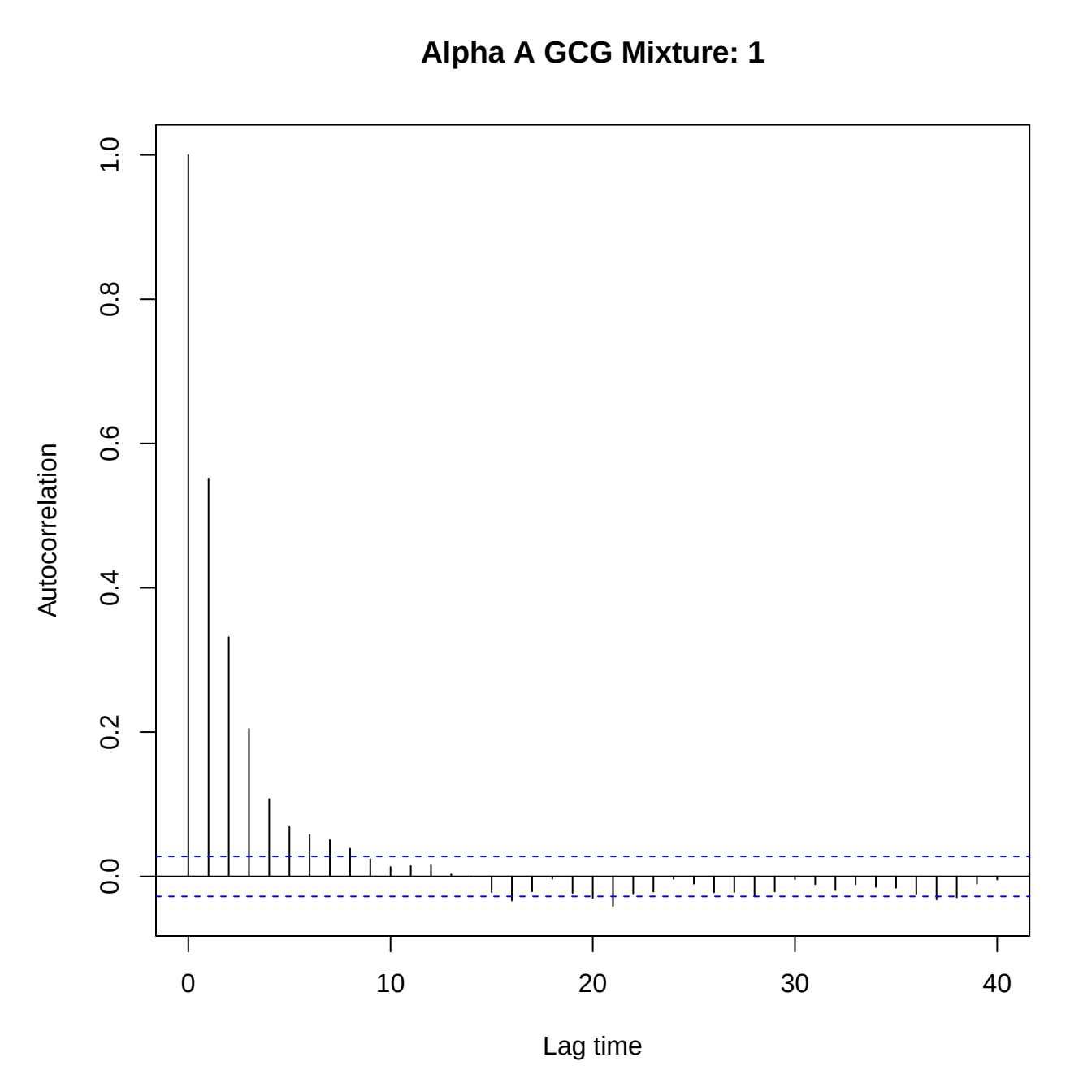

s_ϕTrace
Mixture Element1
2.0
1.5
1.0
0.5
0.0
s_ϕ
0
2000
4000
6000
8000
10000
Sample

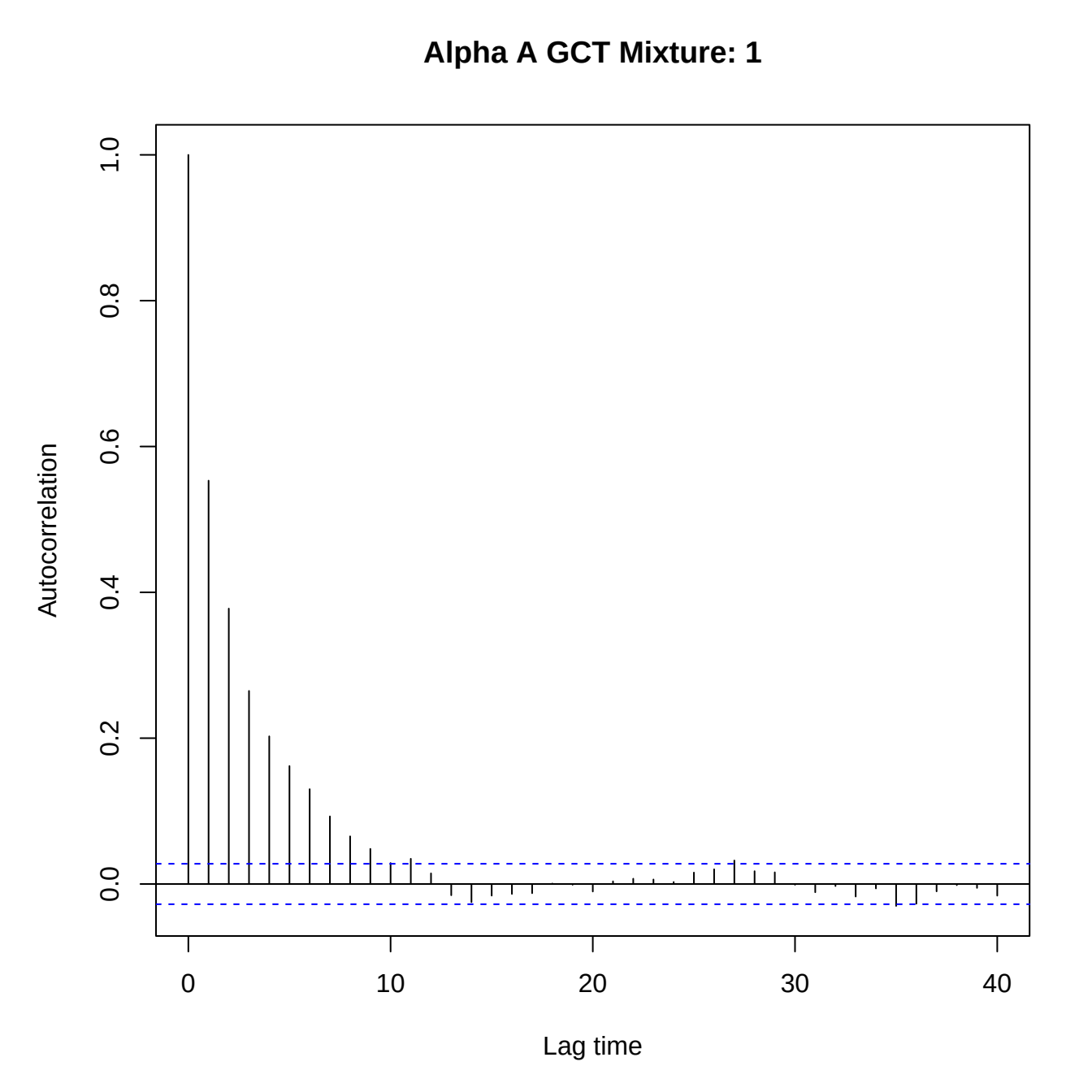

m_ϕTrace
Mixture Element1
0.0
−0.5
−1.0
−1.5
−2.0
m_ϕ
0
2000
4000
6000
8000
10000
Sample

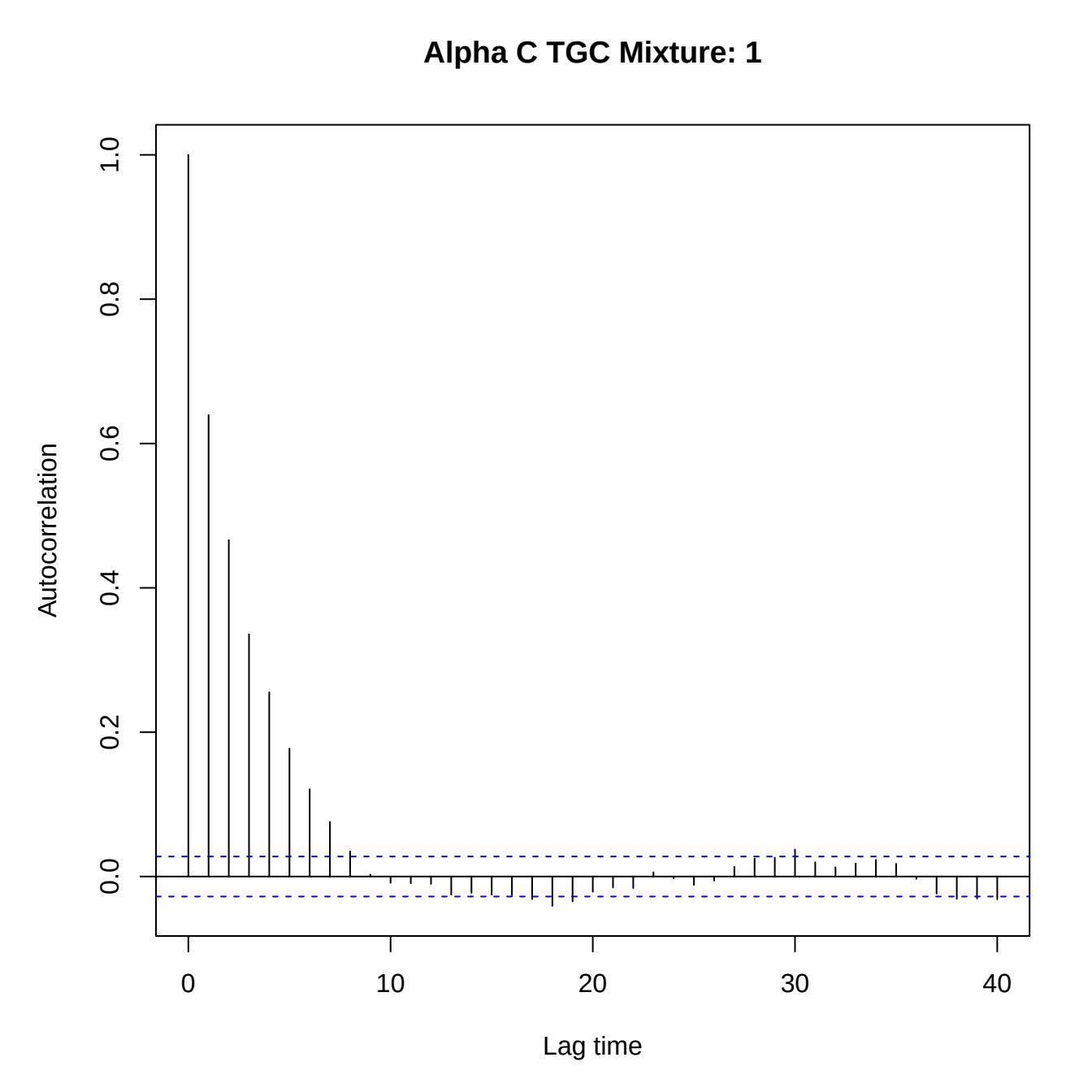

Partition Function Trace
Mixture Element1
Partition Function
0
500000
1000000
1500000
0
2000
4000
6000
8000
10000
Sample

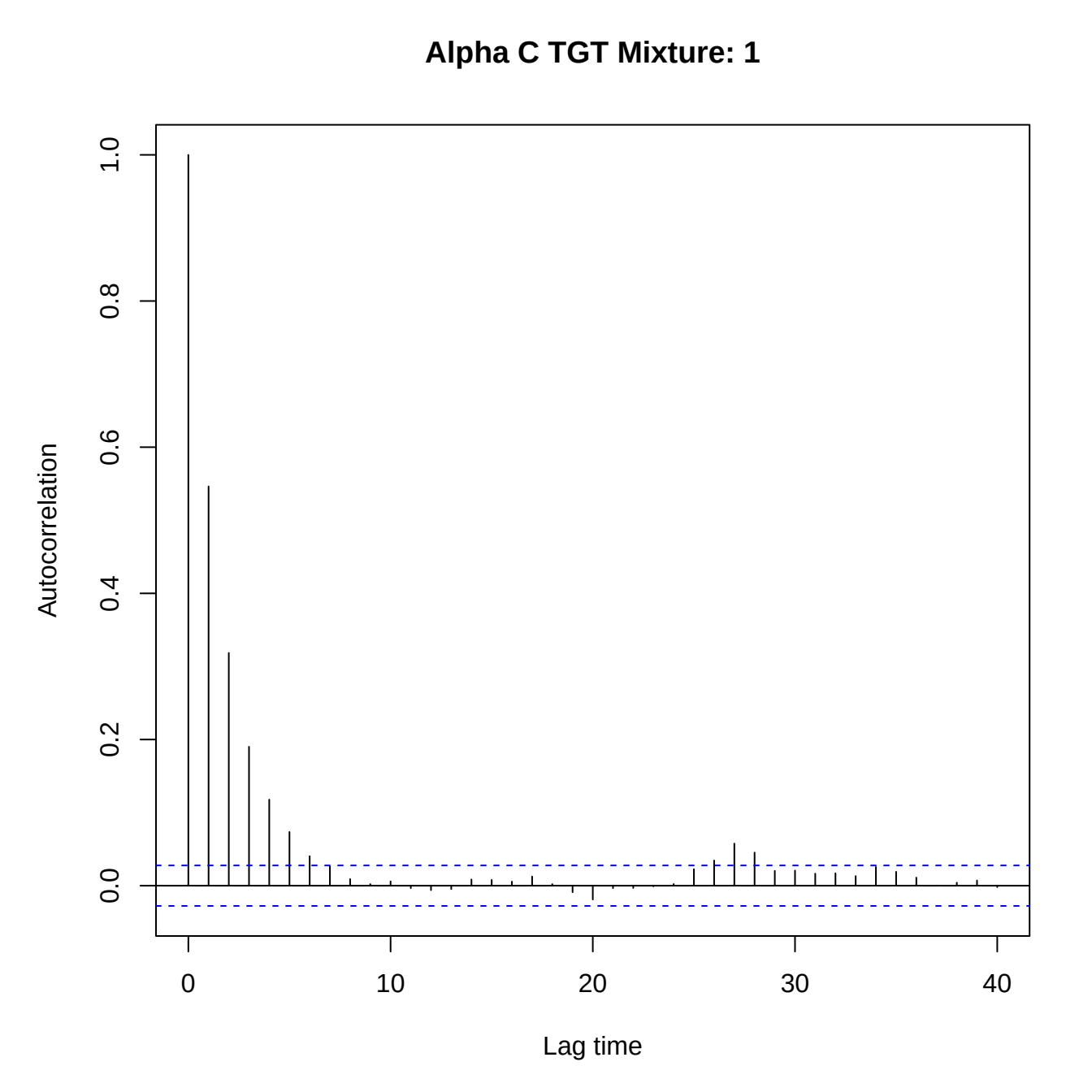

Alpha A GCA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

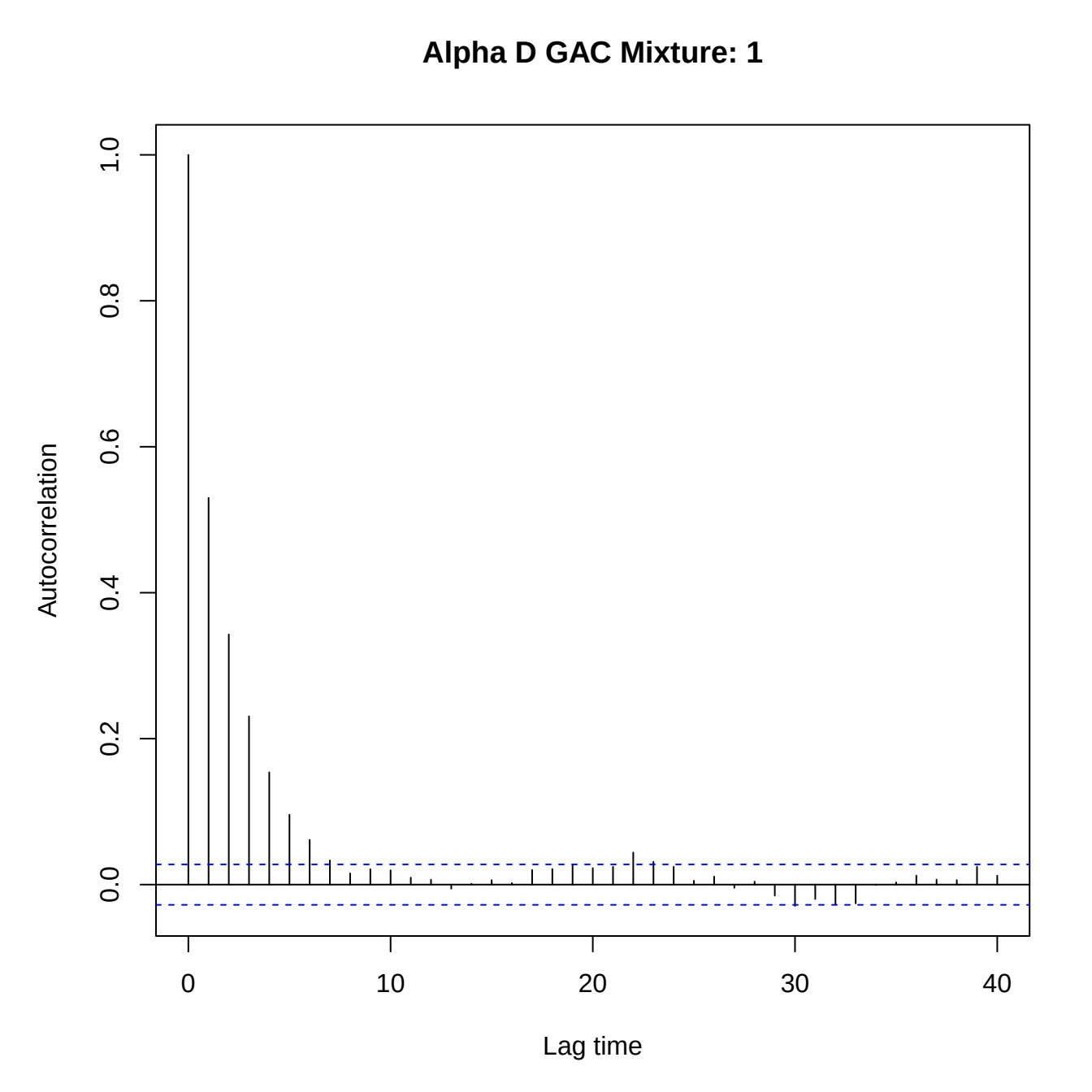

Alpha A GCC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

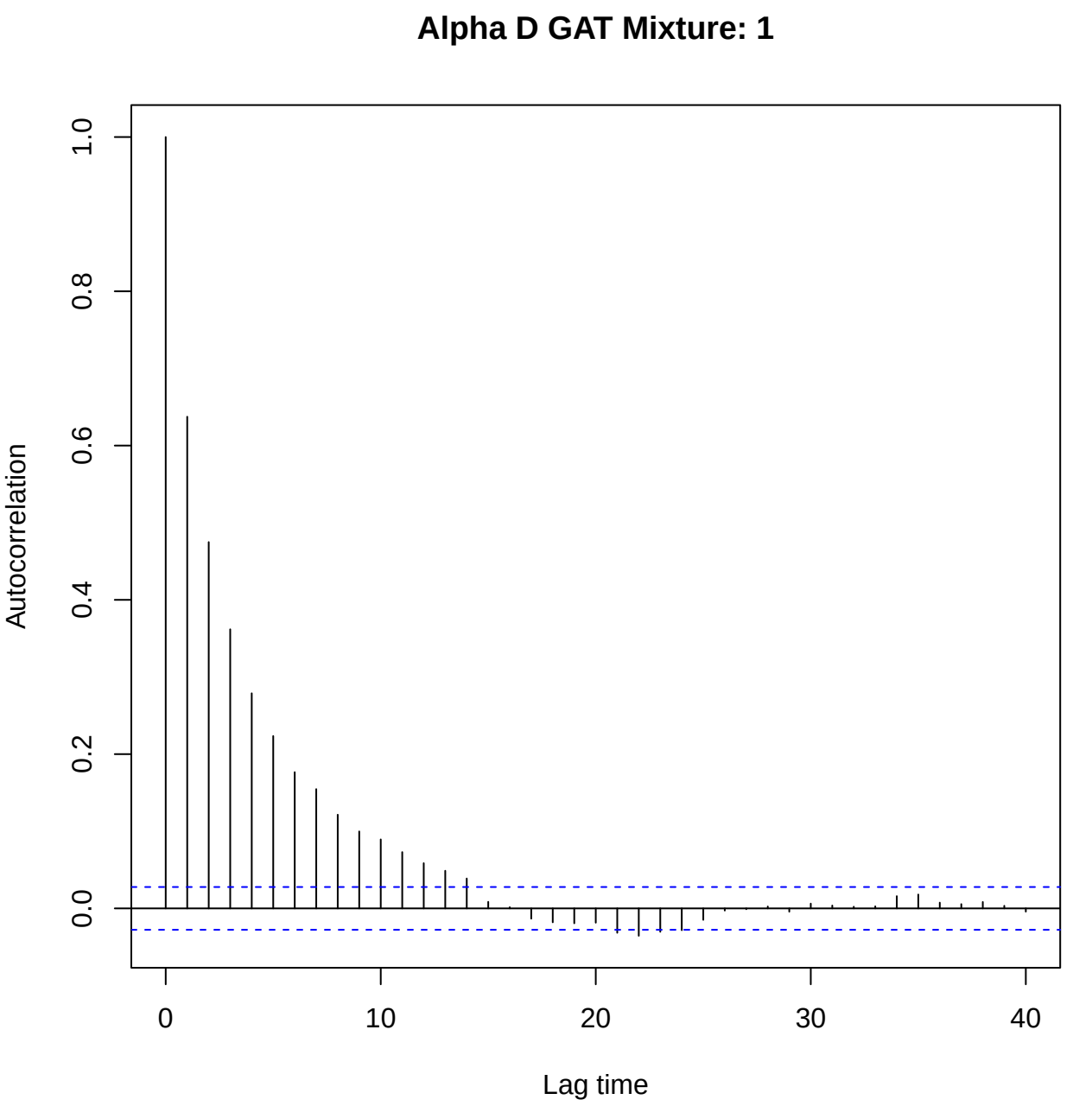

Alpha A GCG Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

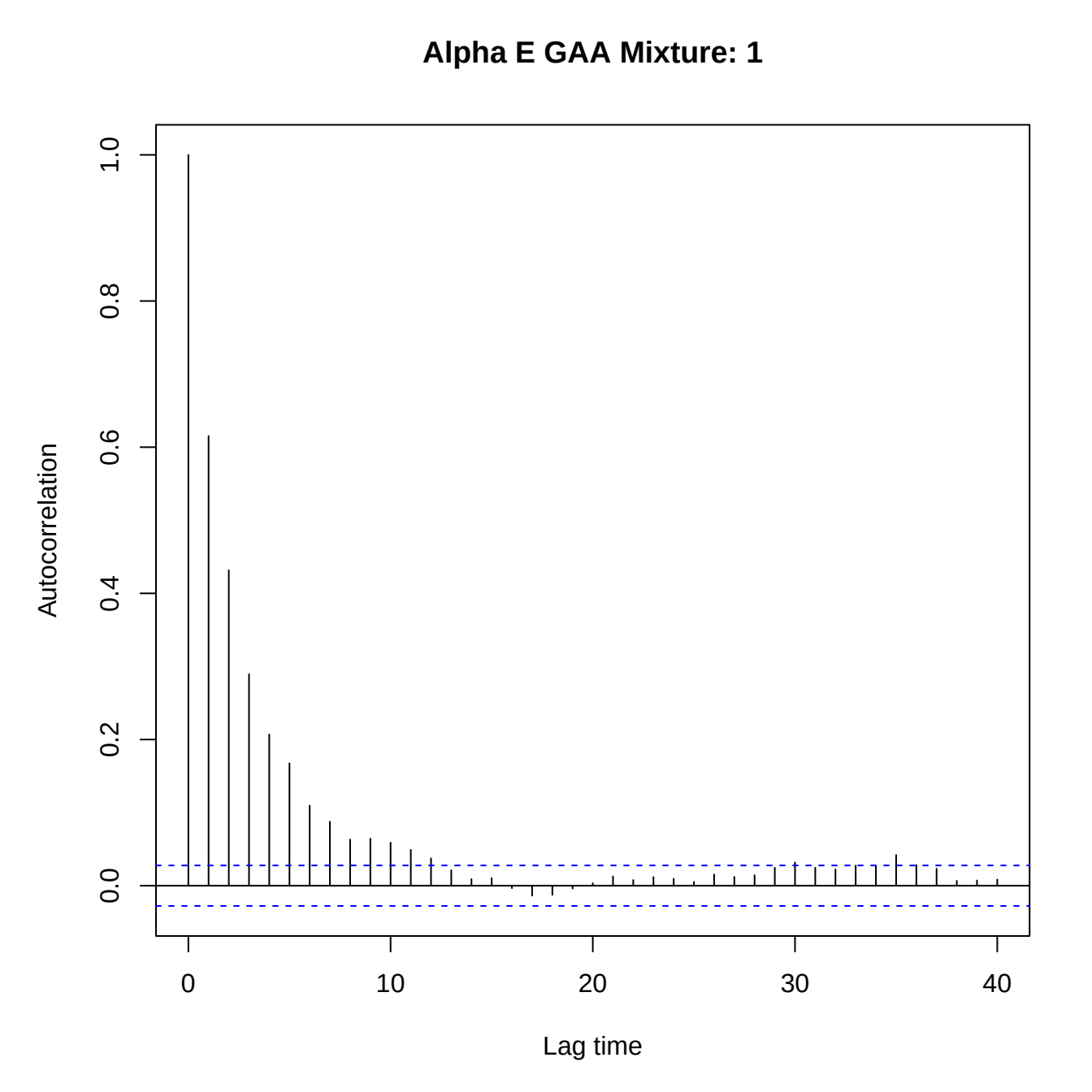

Alpha A GCT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

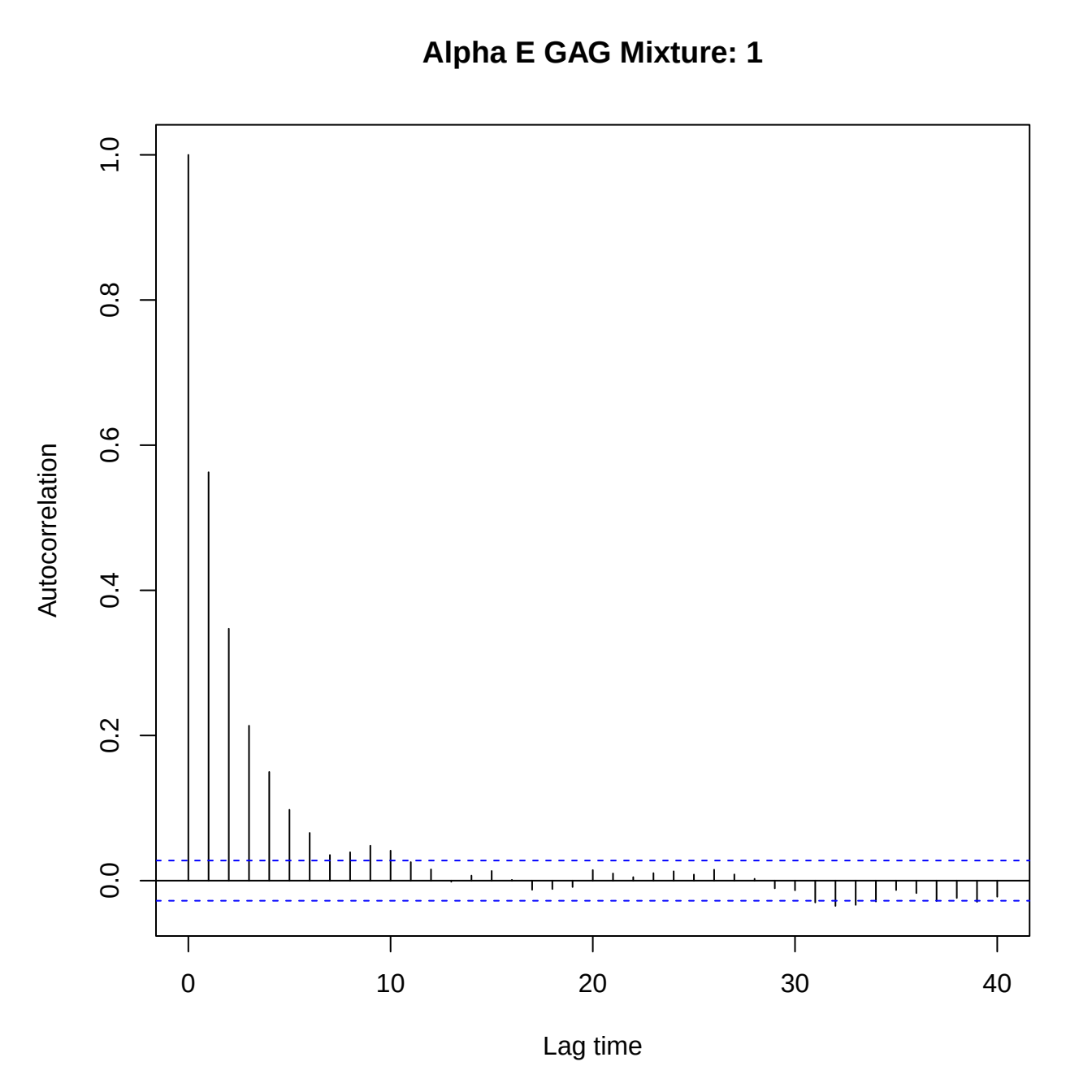

Alpha C TGC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

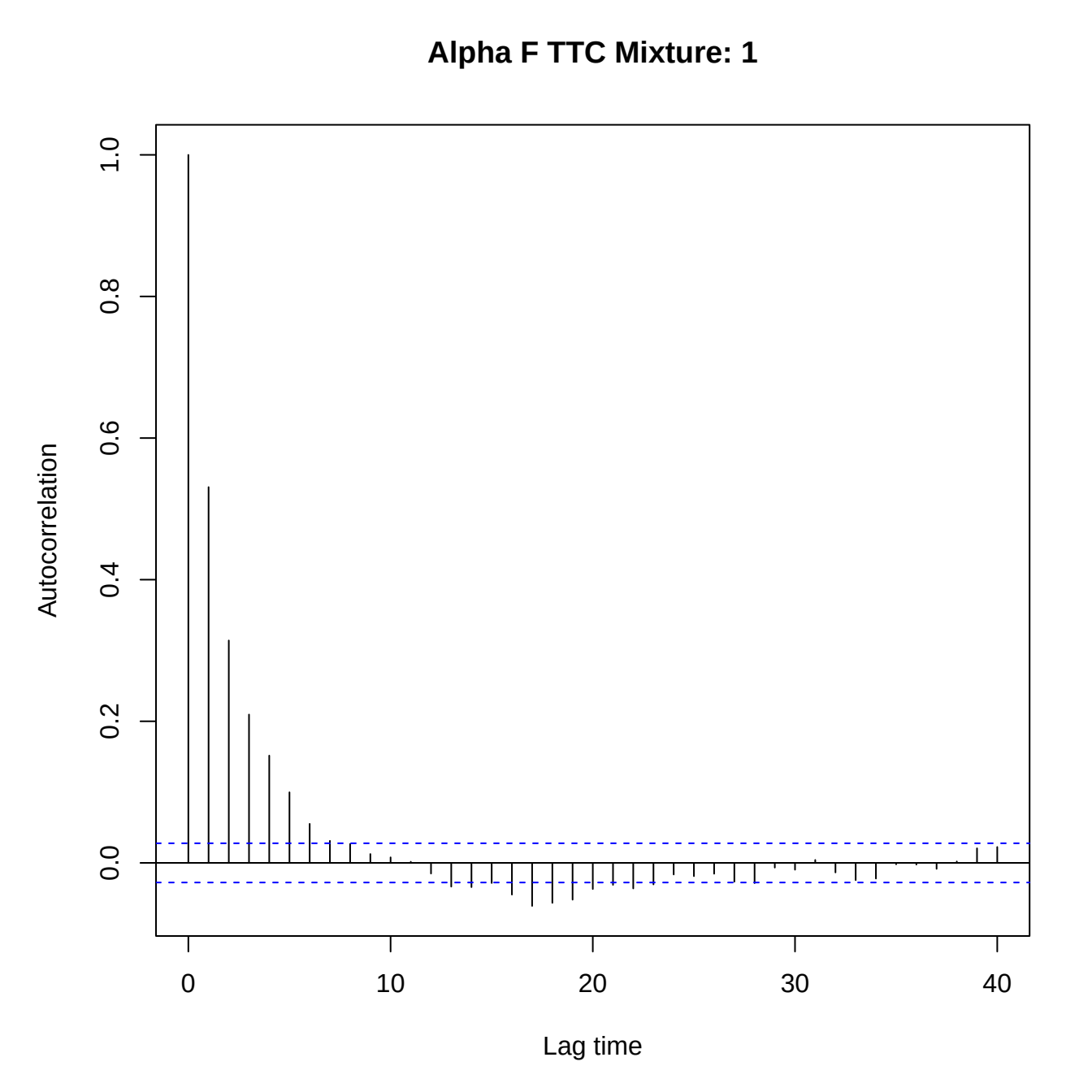

Alpha C TGT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

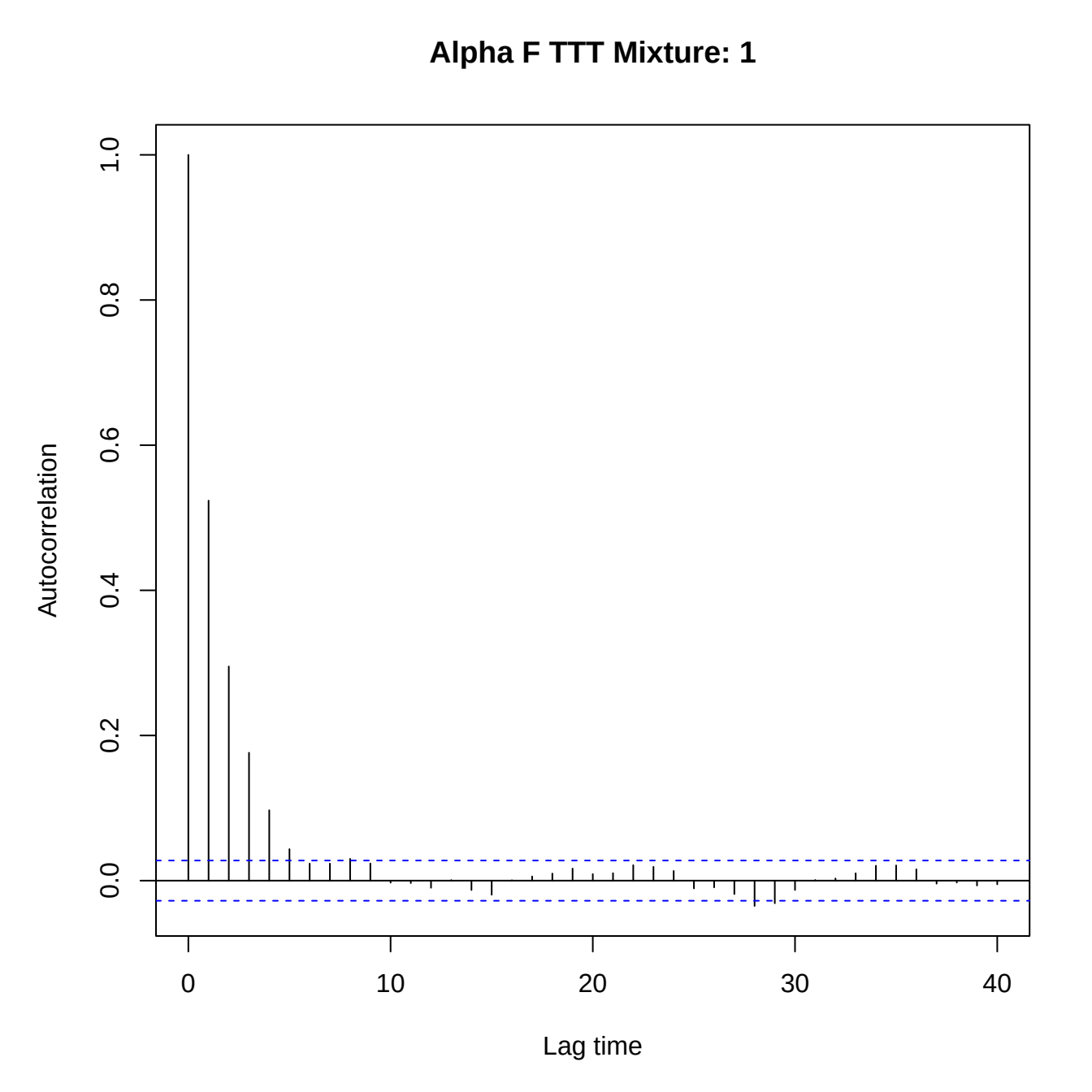

Alpha D GAC Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha D GAT Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha E GAA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha E GAG Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha F TTC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha F TTT Mixture: 1
Autocorrelation
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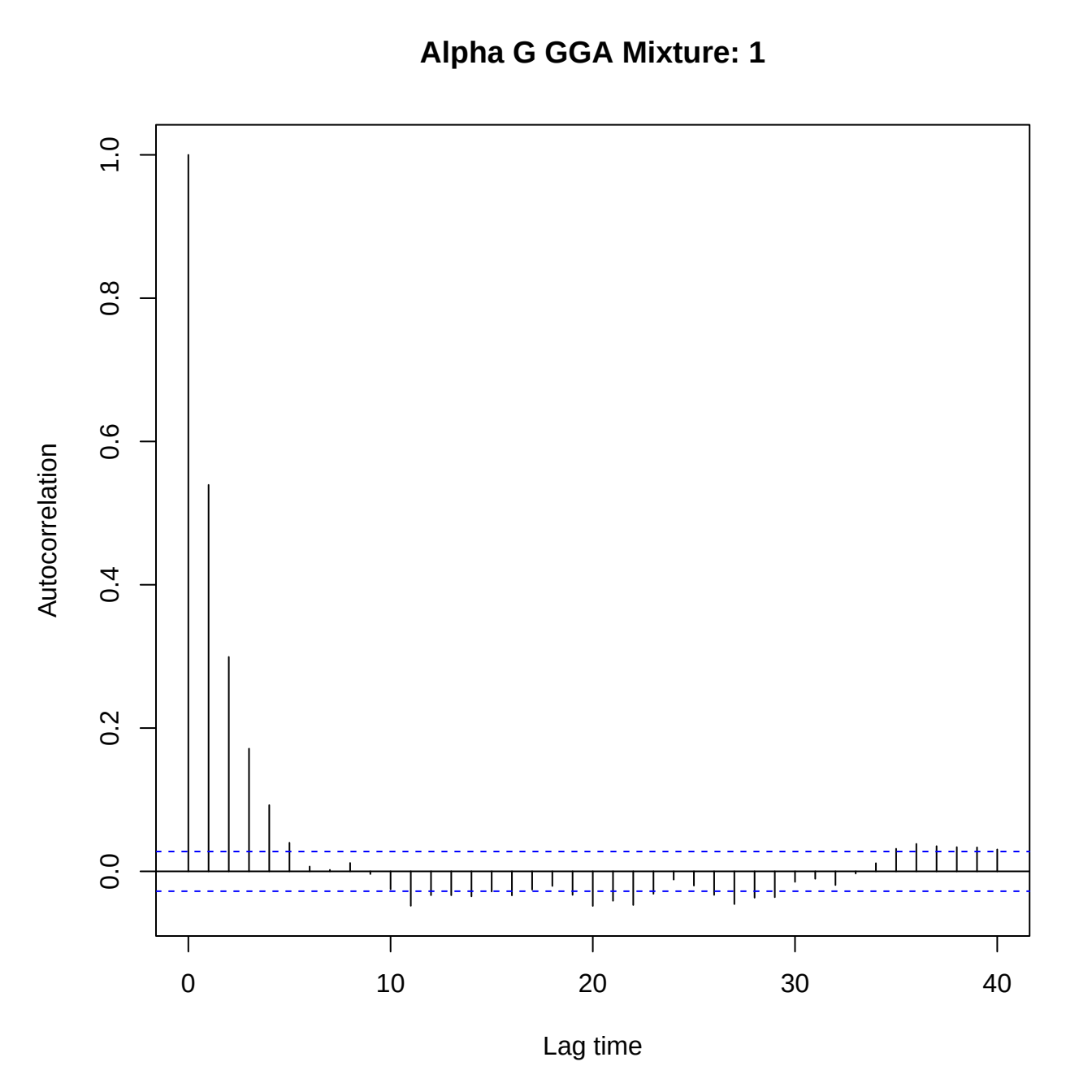
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha G GGA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
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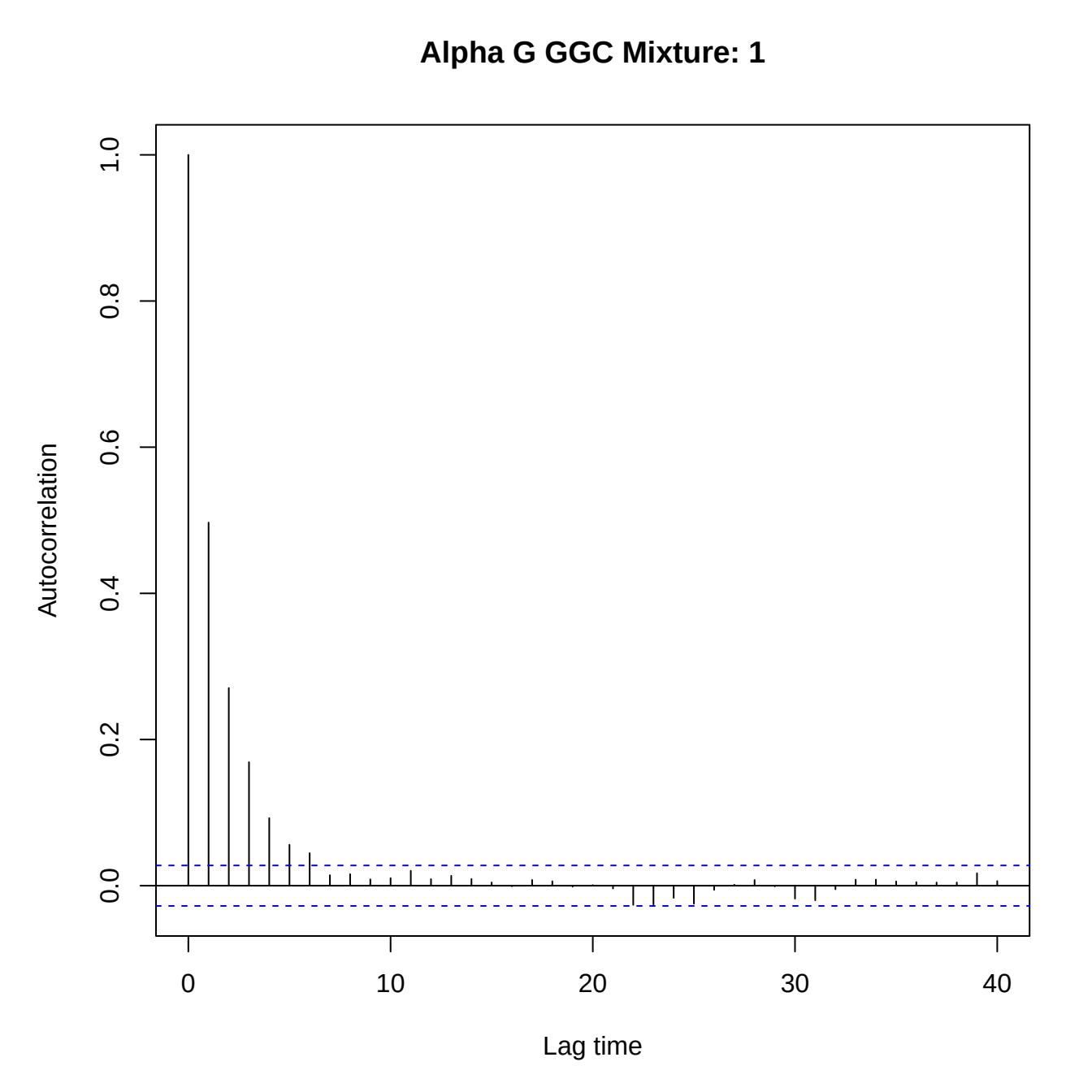
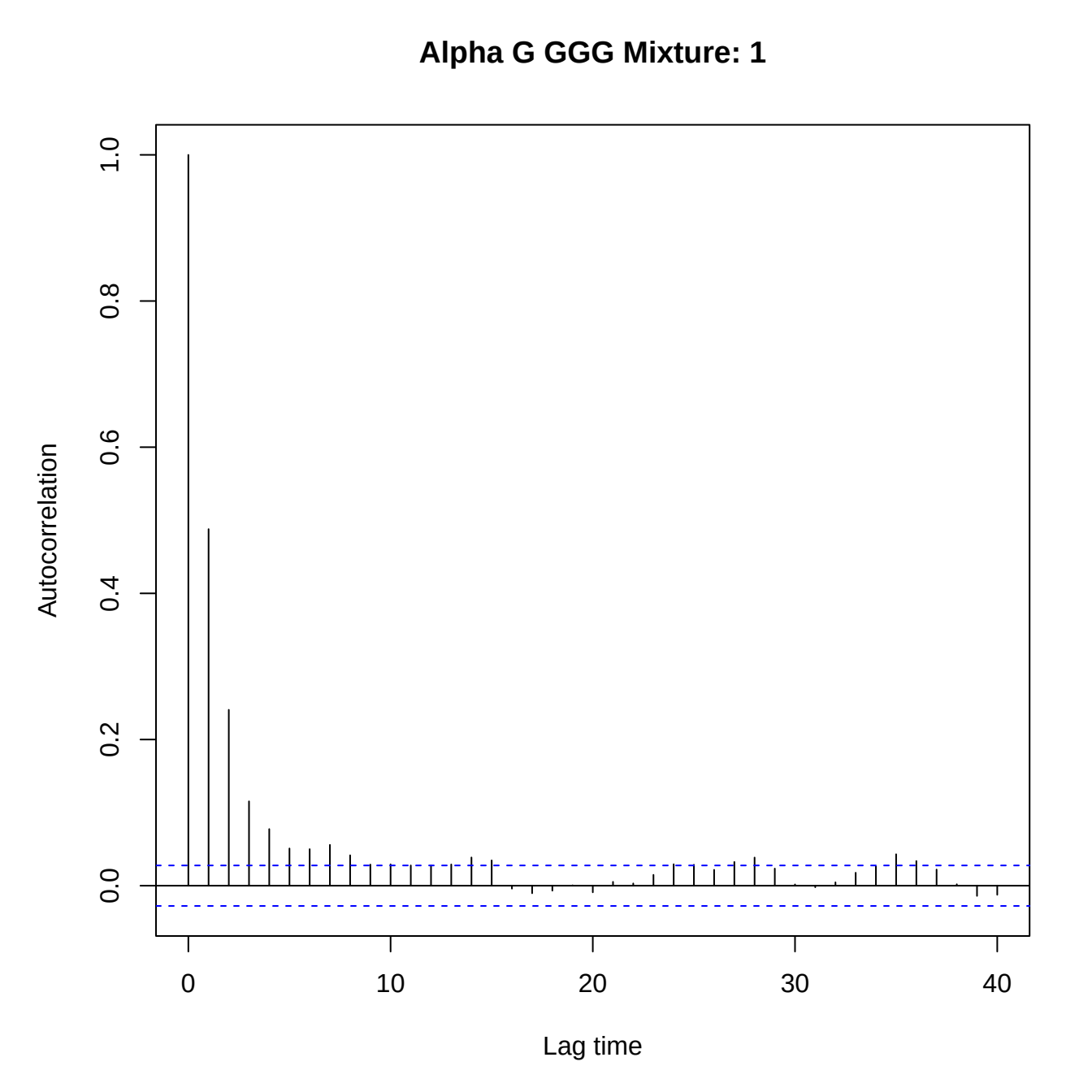
20
30
40
Lag time


Alpha G GGC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha G GGG Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
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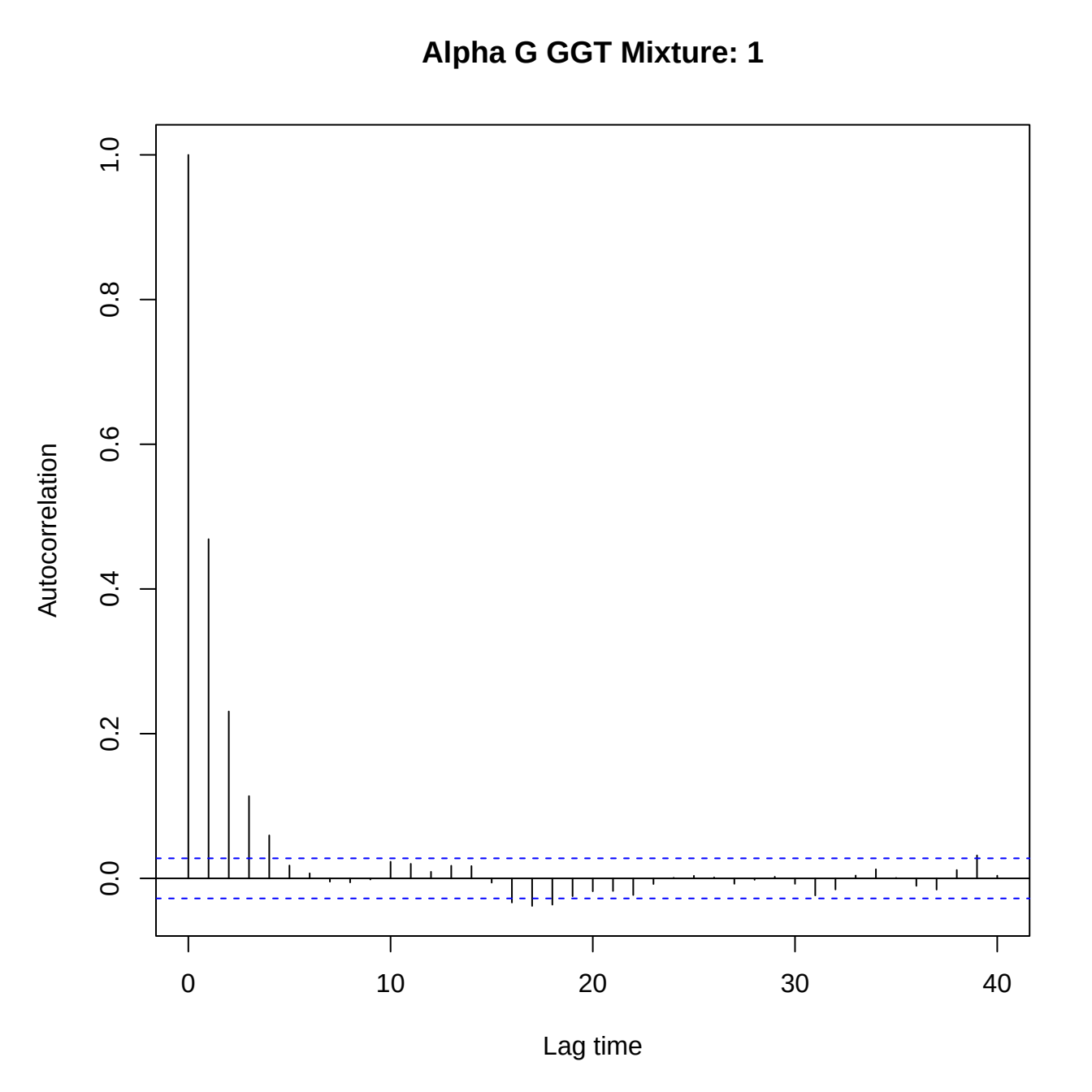
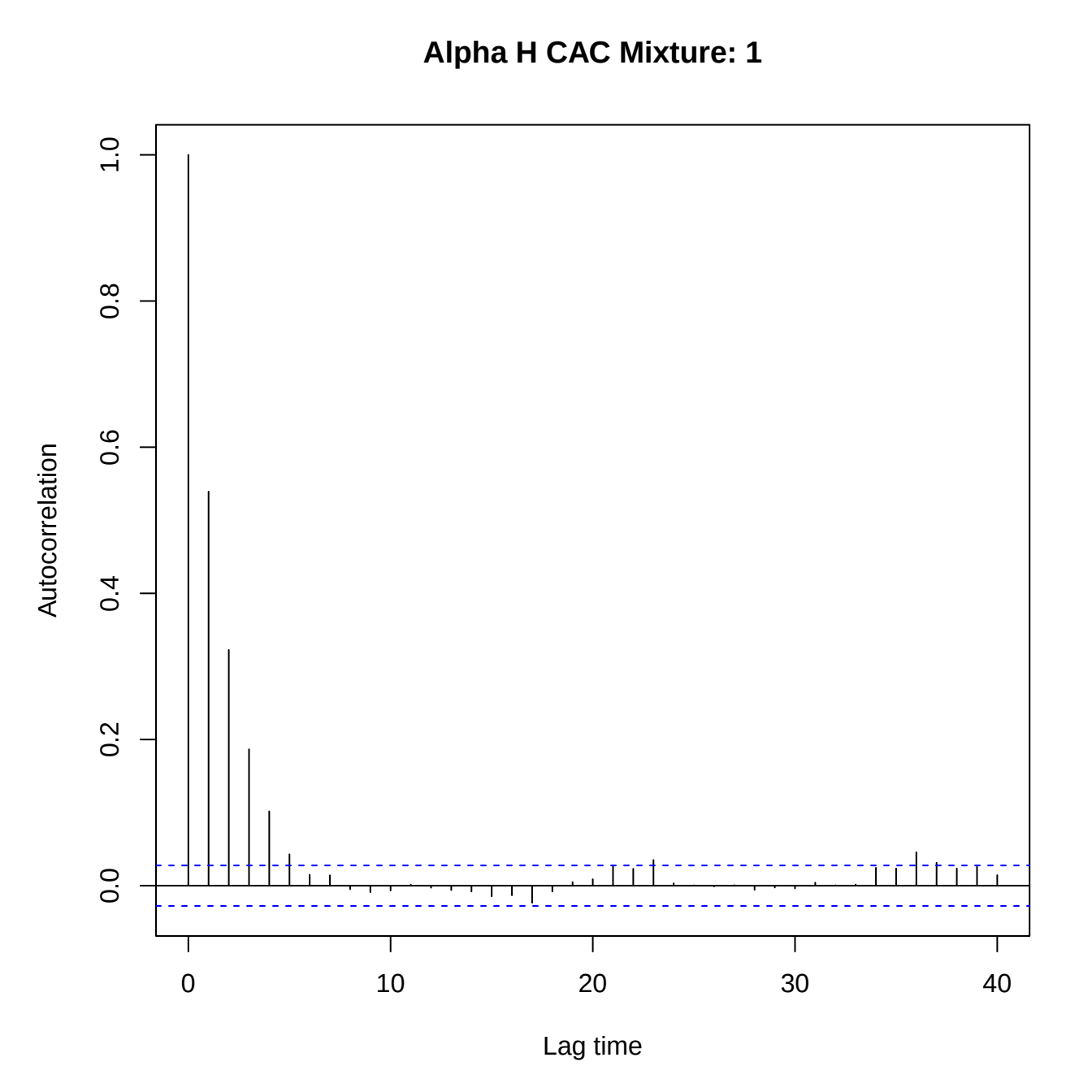
20
30
40
Lag time


Alpha G GGT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha H CAC Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
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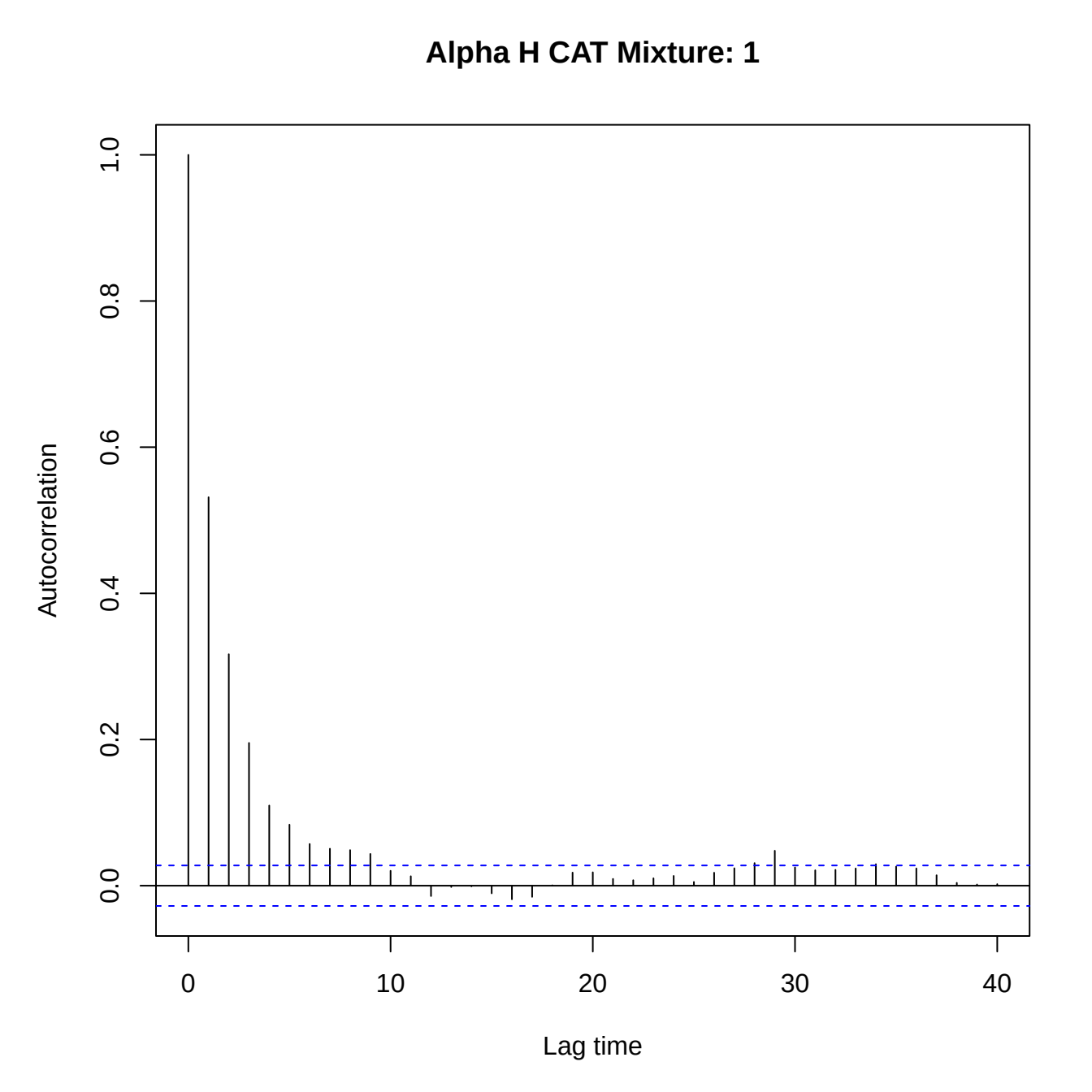
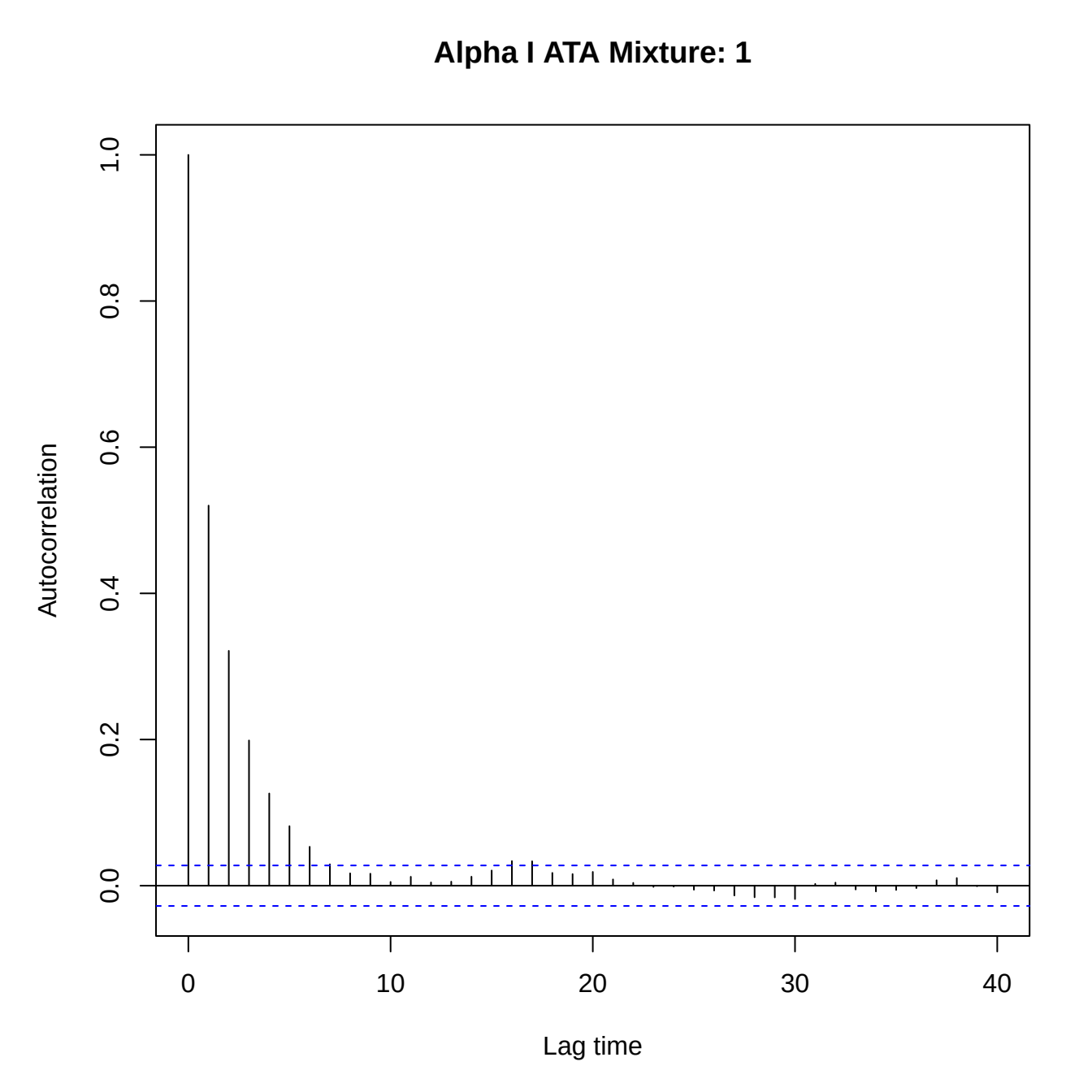
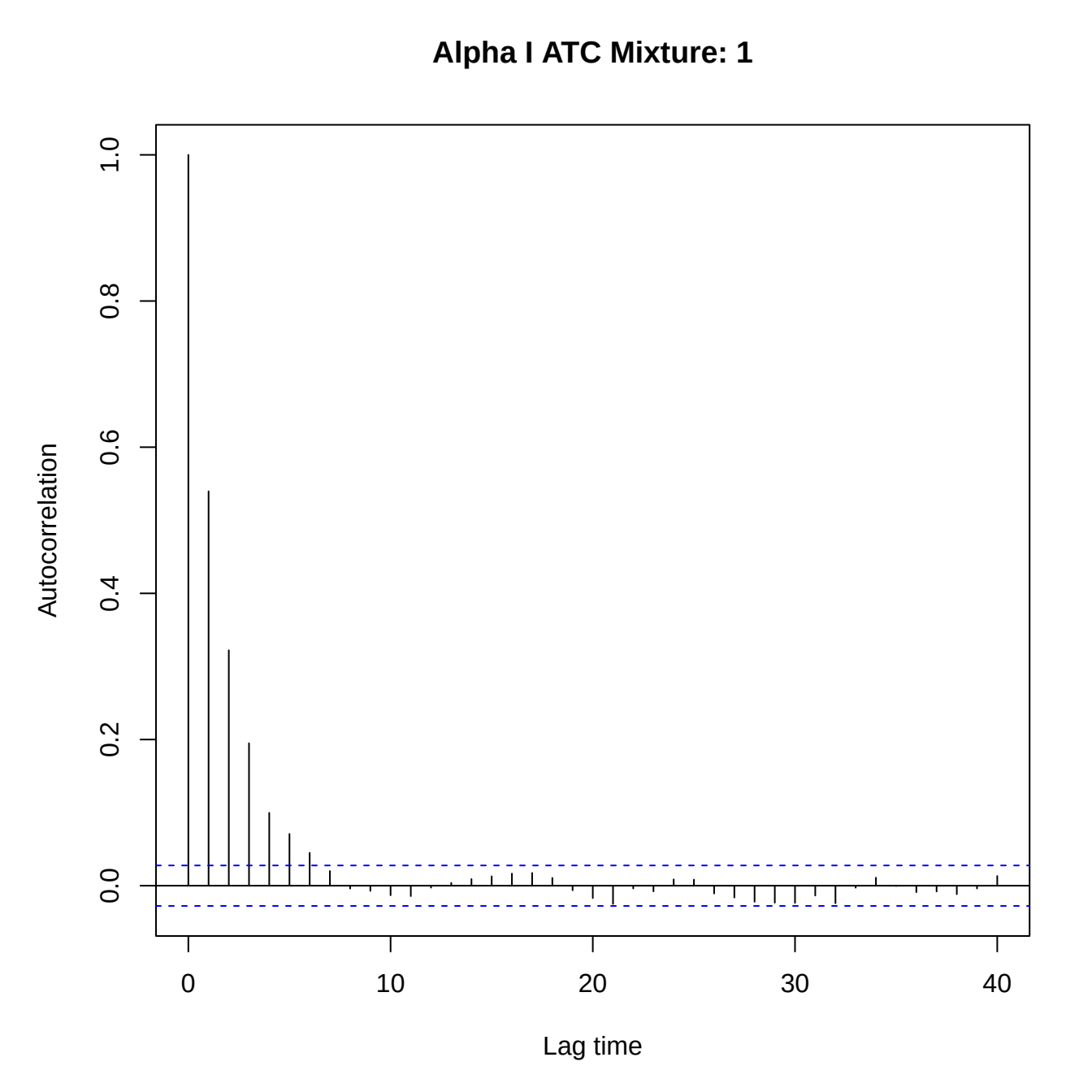
20
30
40
Lag time


Alpha H CAT Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha I ATA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha I ATC Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
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0.0
0
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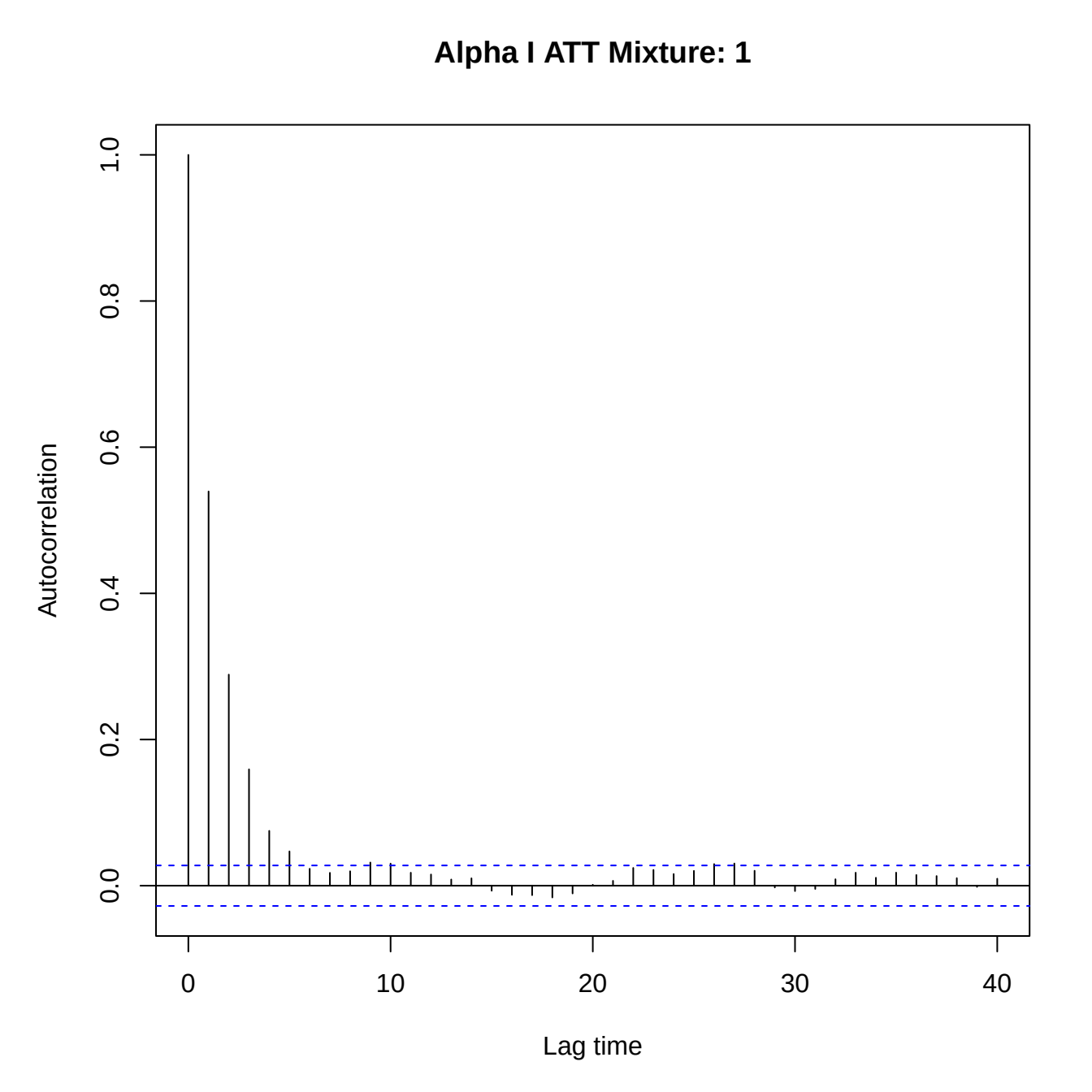
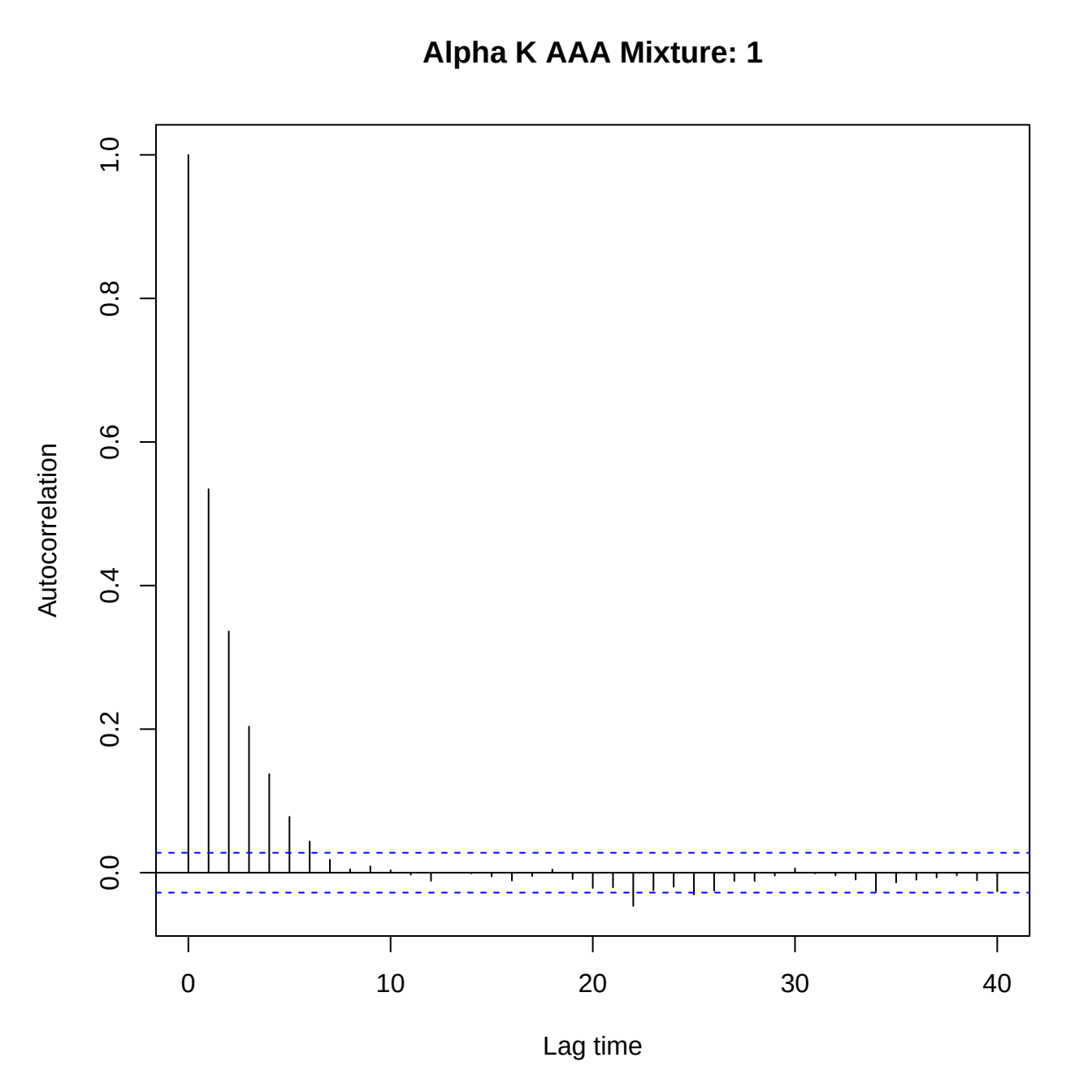
20
30
40
Lag time


Alpha I ATT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha K AAA Mixture: 1
Autocorrelation
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0.8
0.6
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0.2
0.0
0
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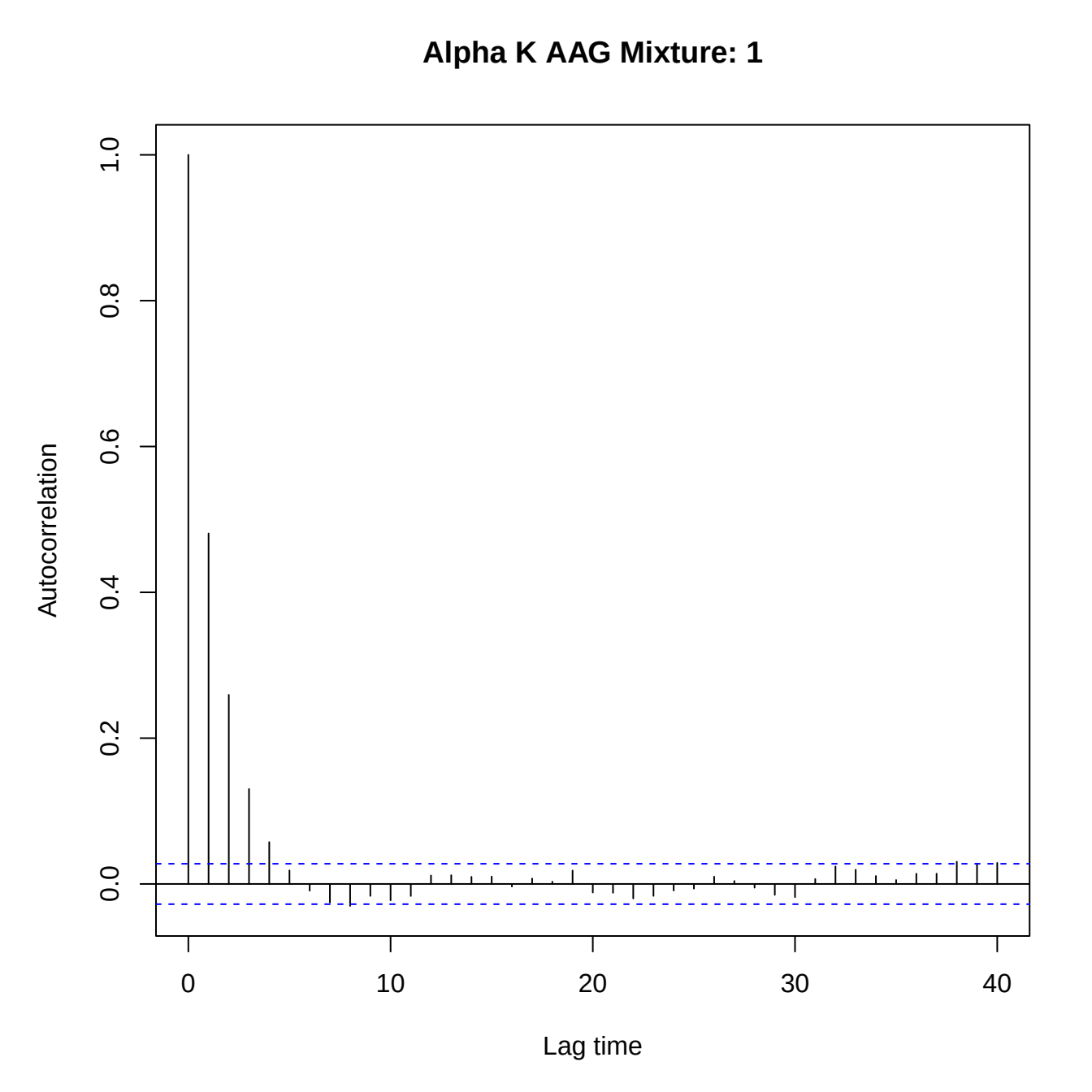
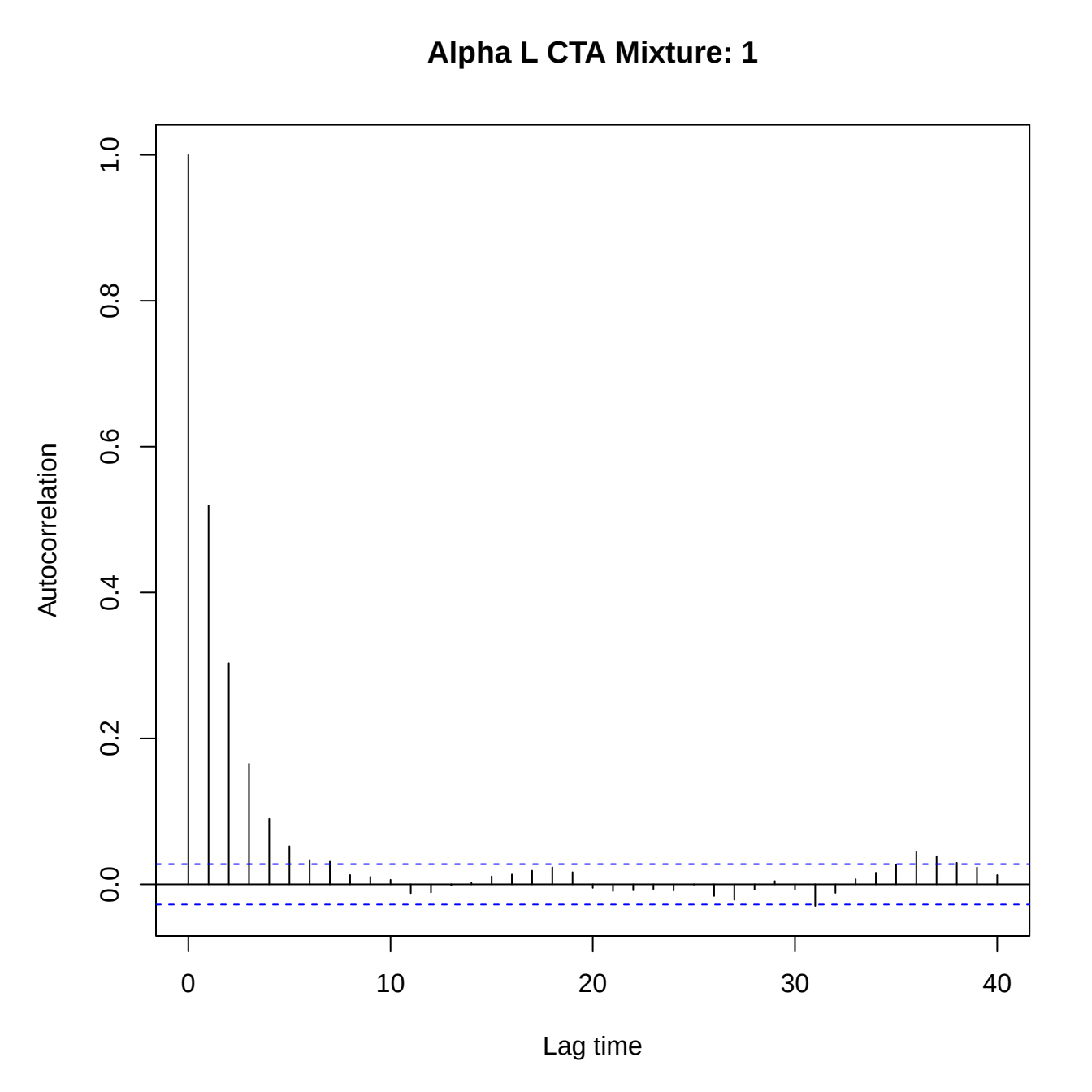
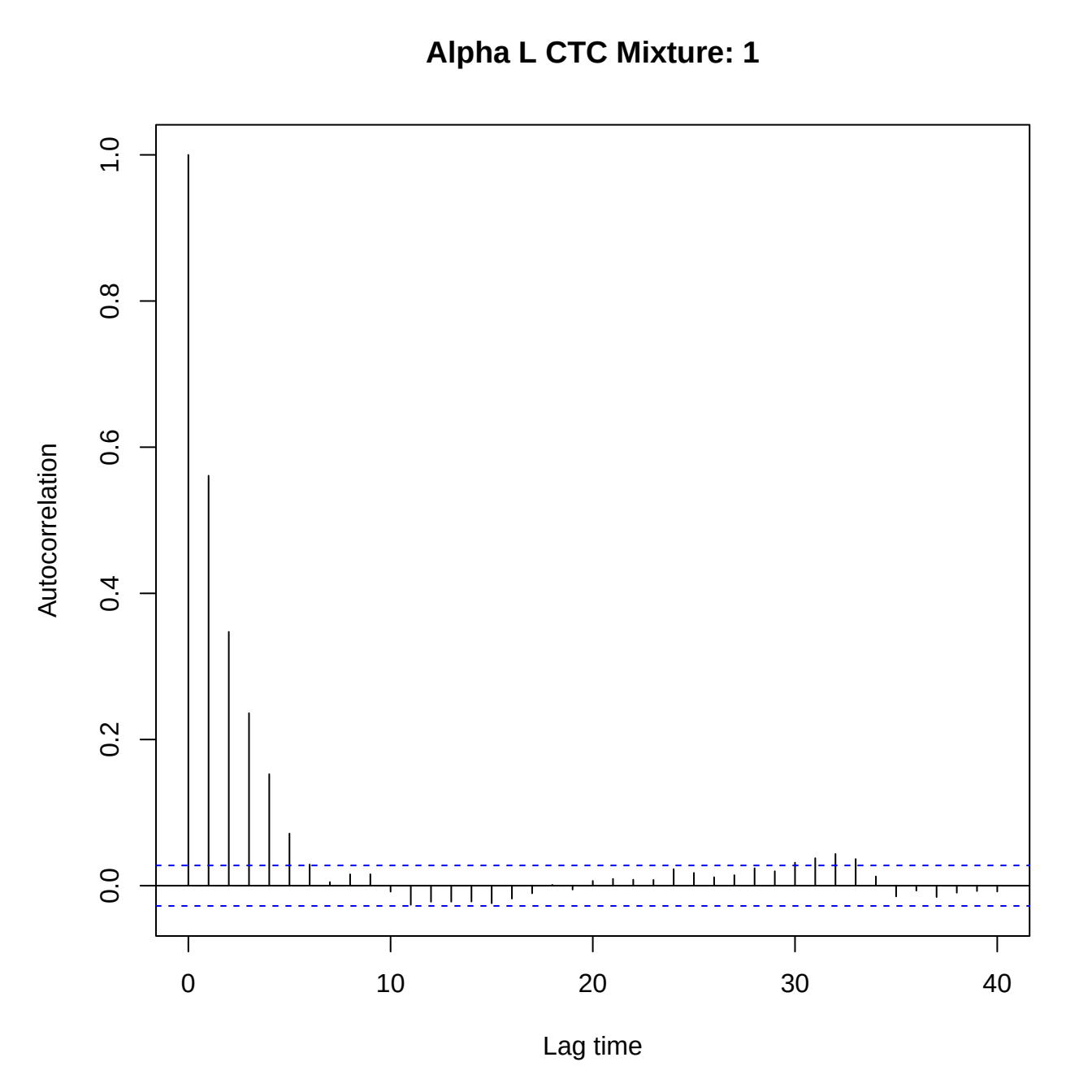
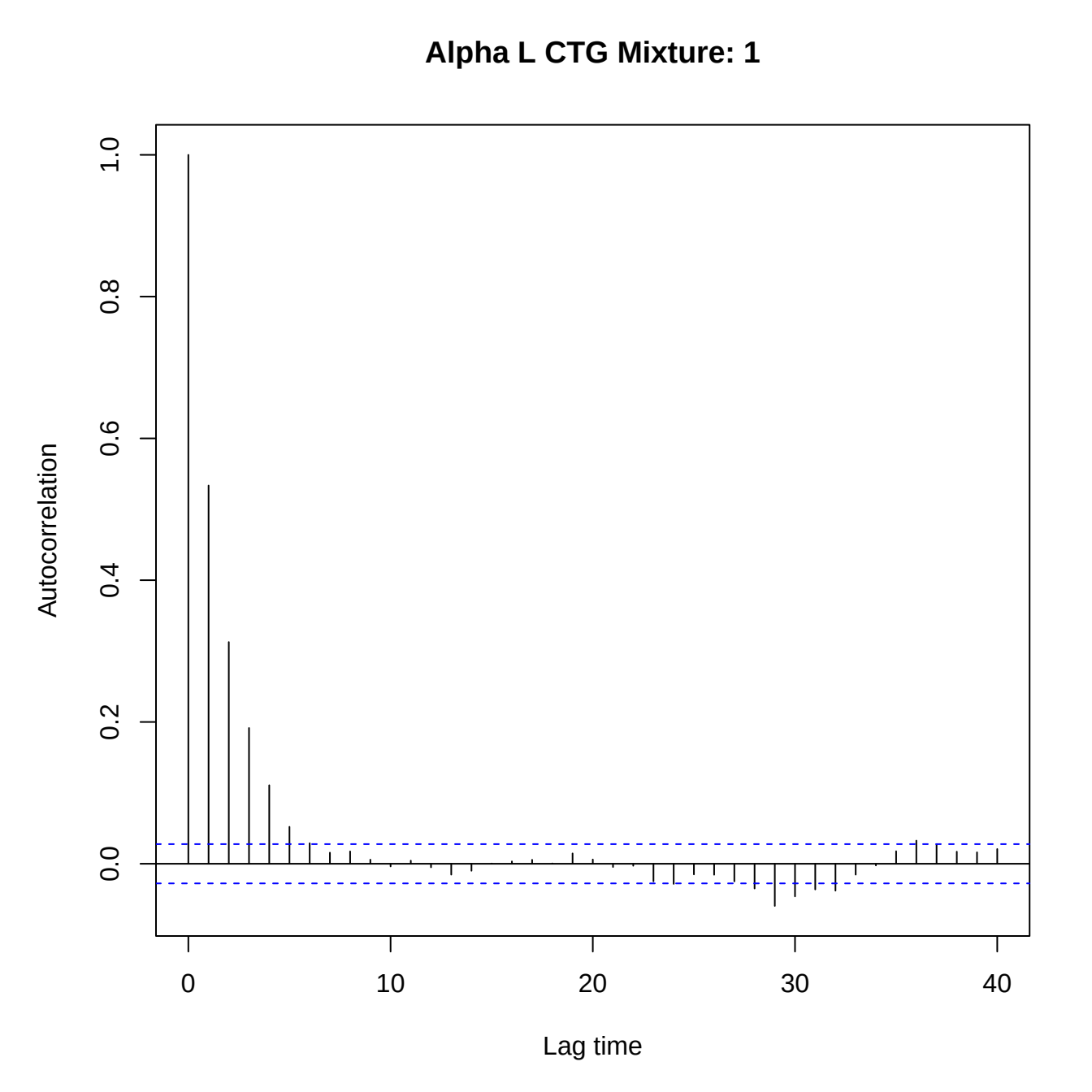
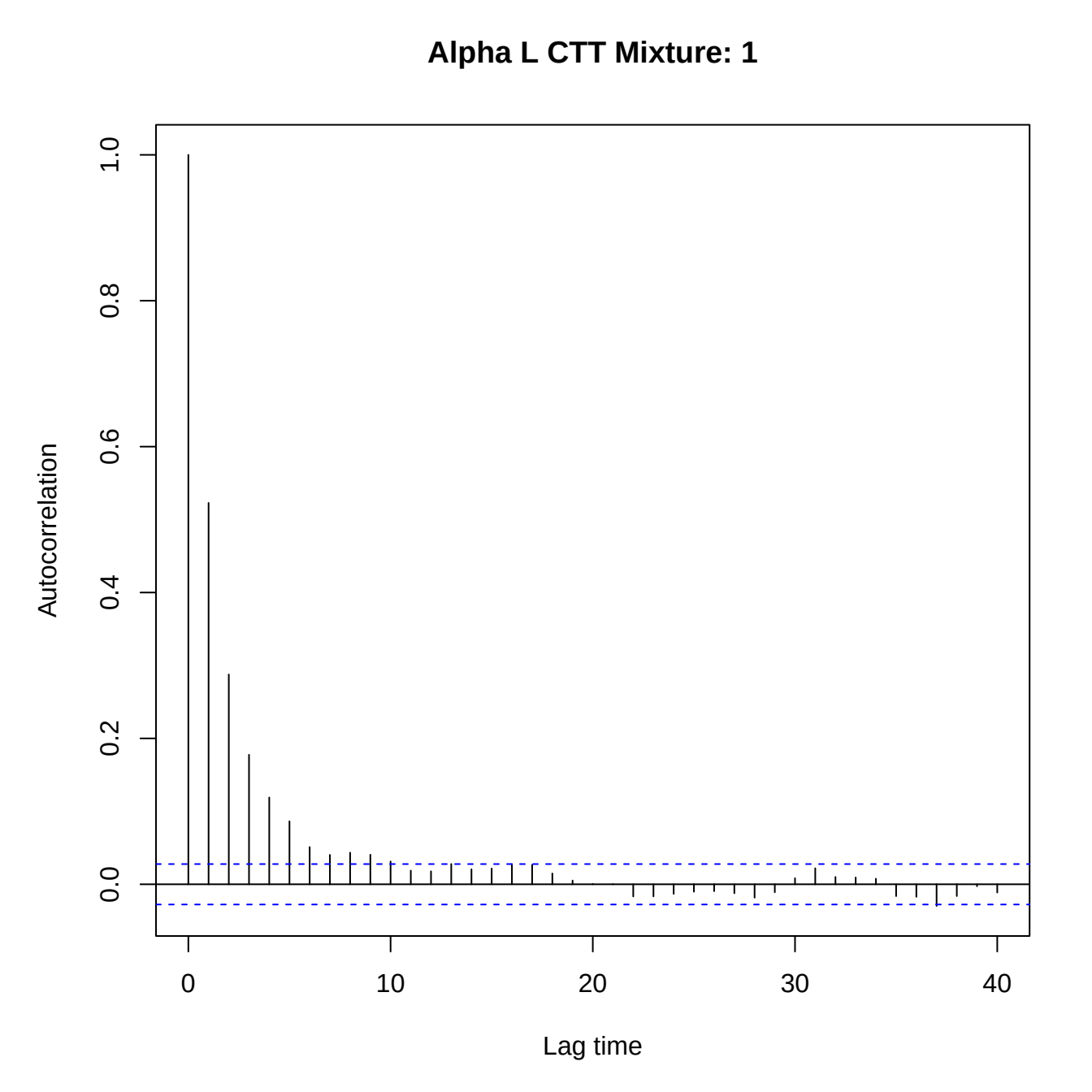
20
30
40
Lag time

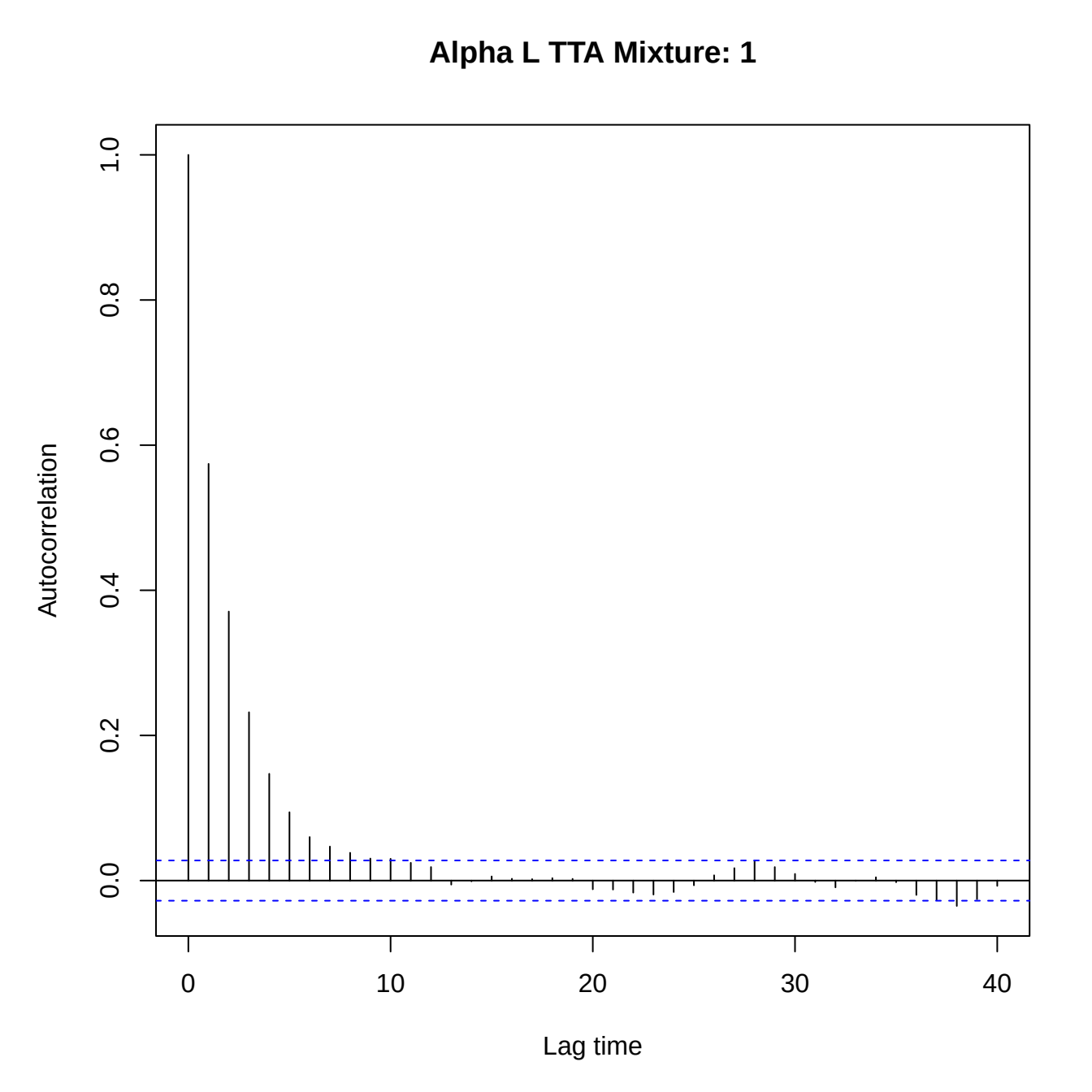

Alpha K AAG Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

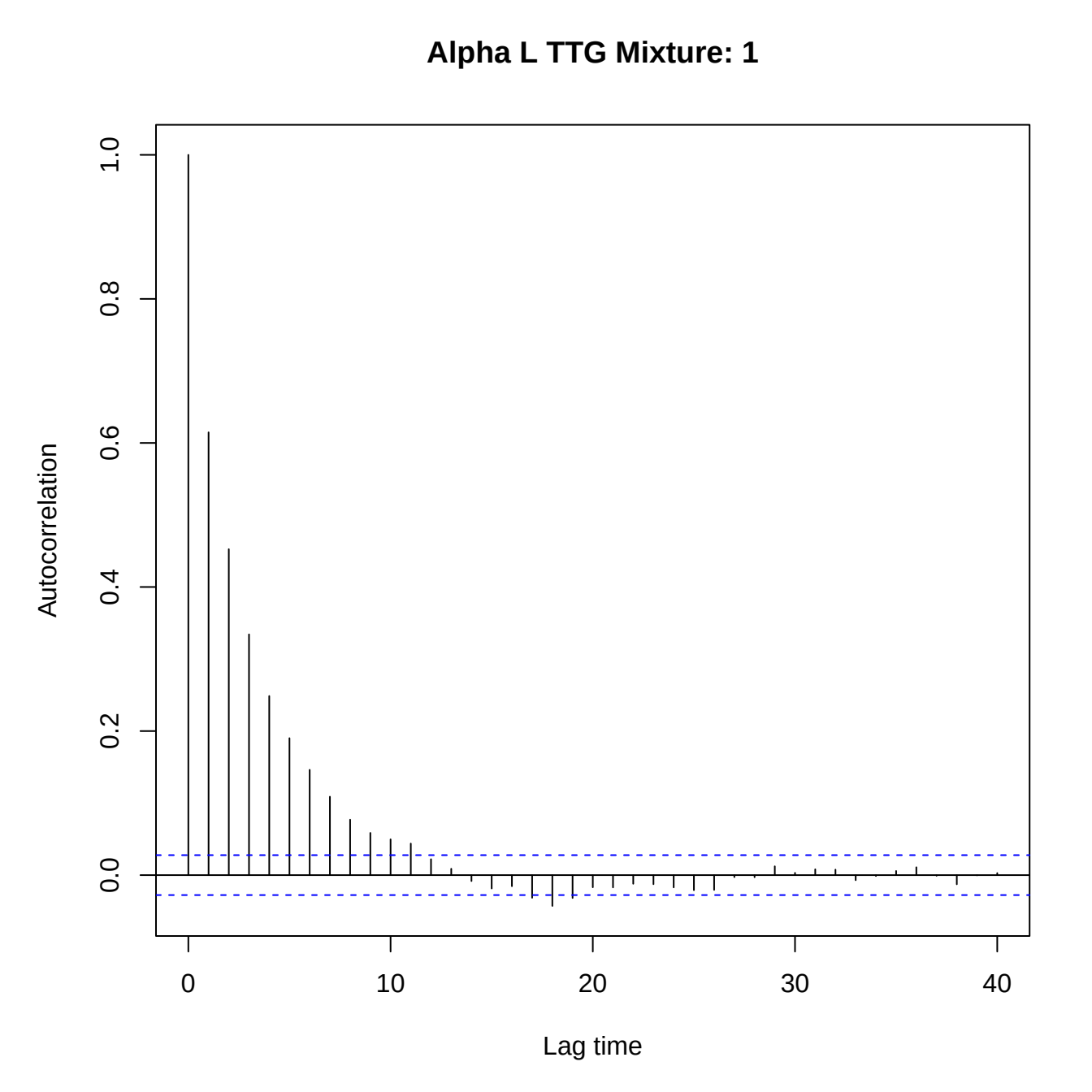

Alpha L CTA Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha L CTC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha L CTG Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha L CTT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha L TTA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha L TTG Mixture: 1
Autocorrelation
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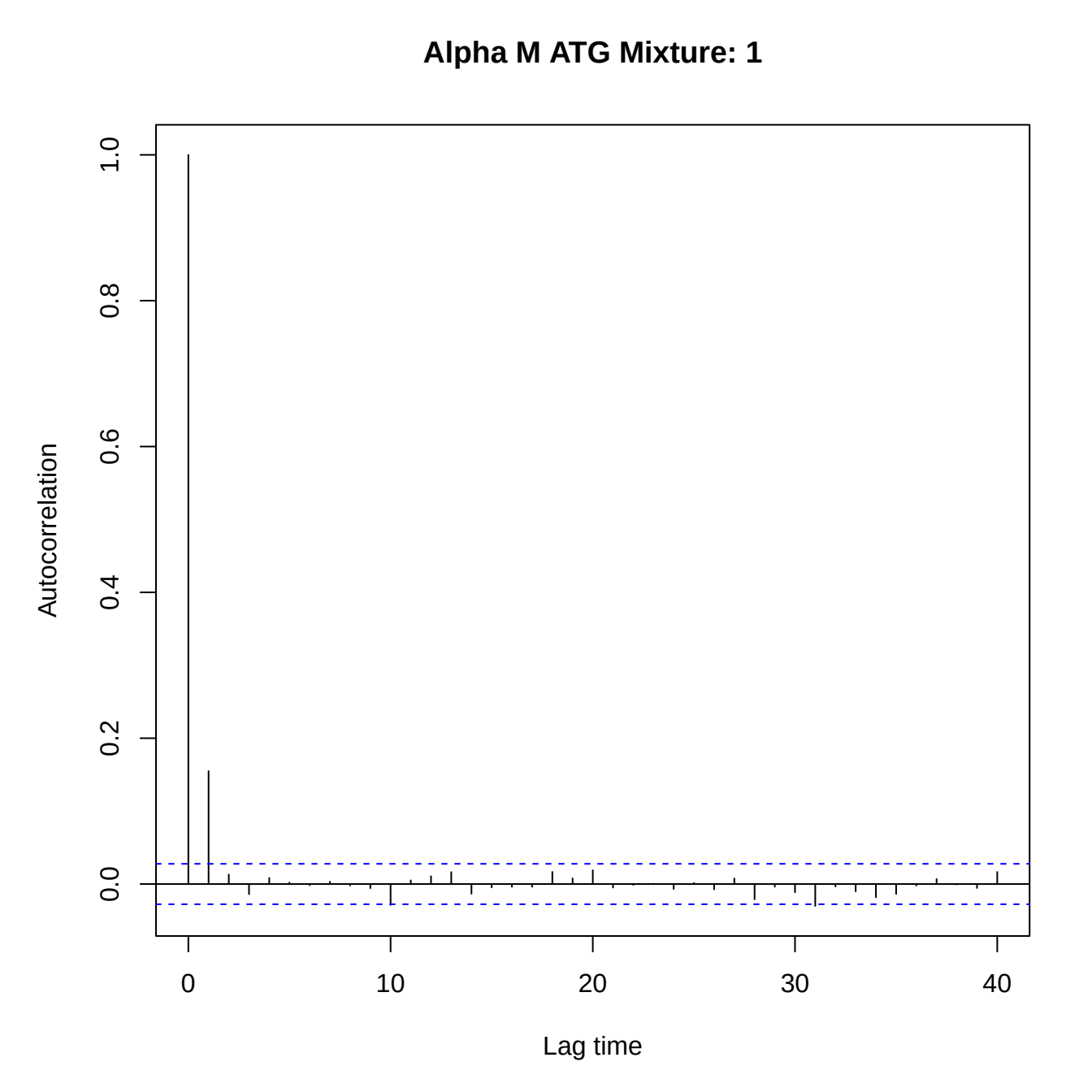
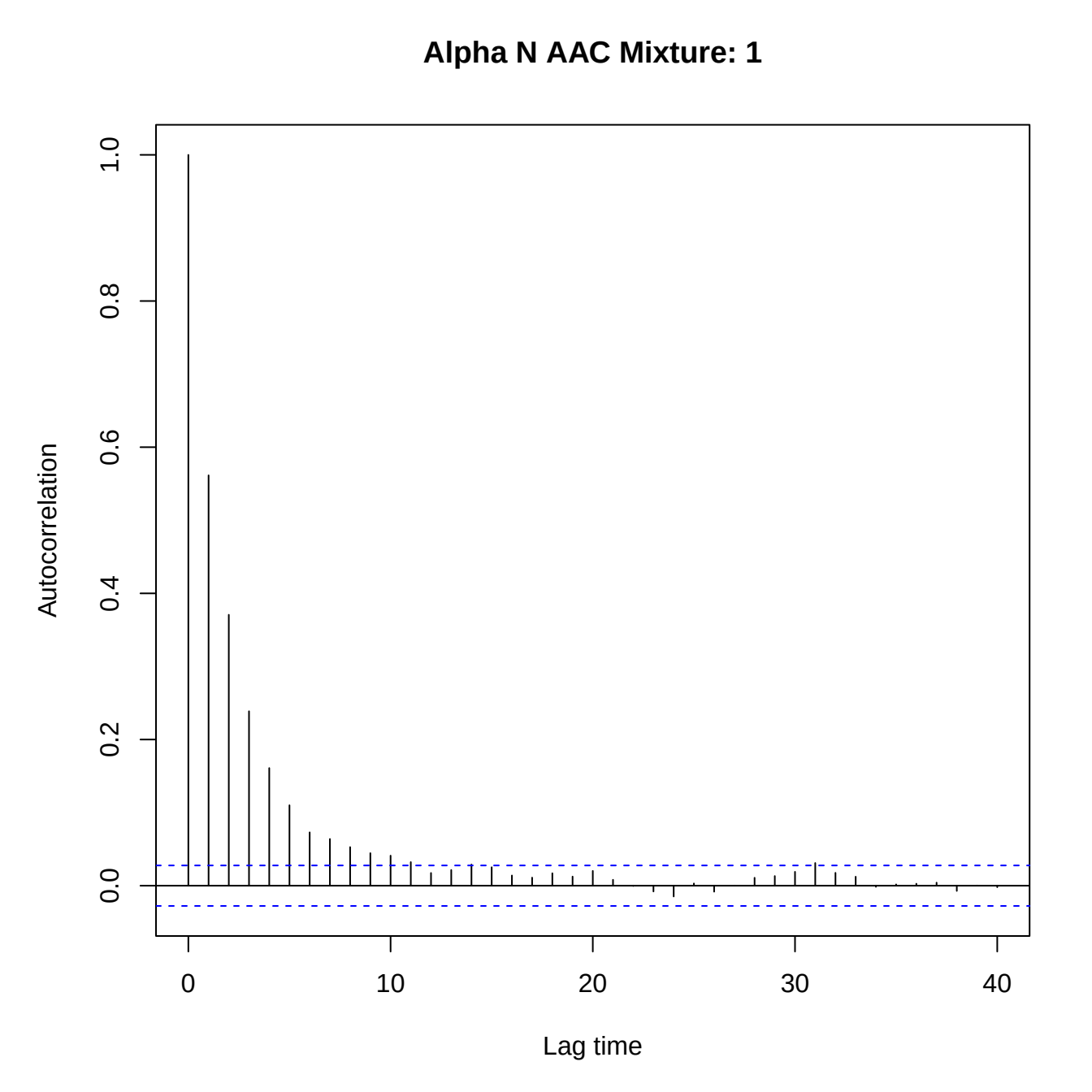
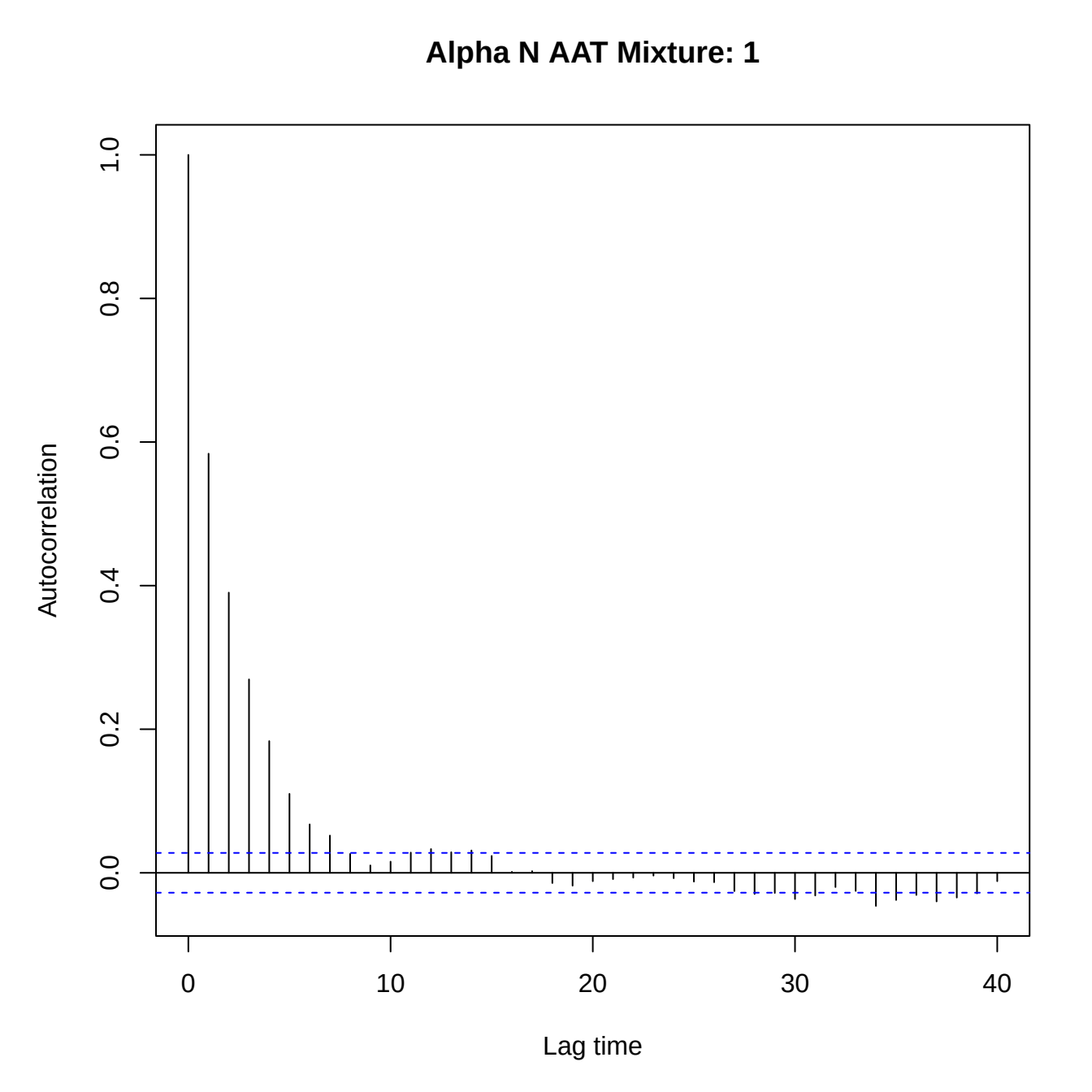
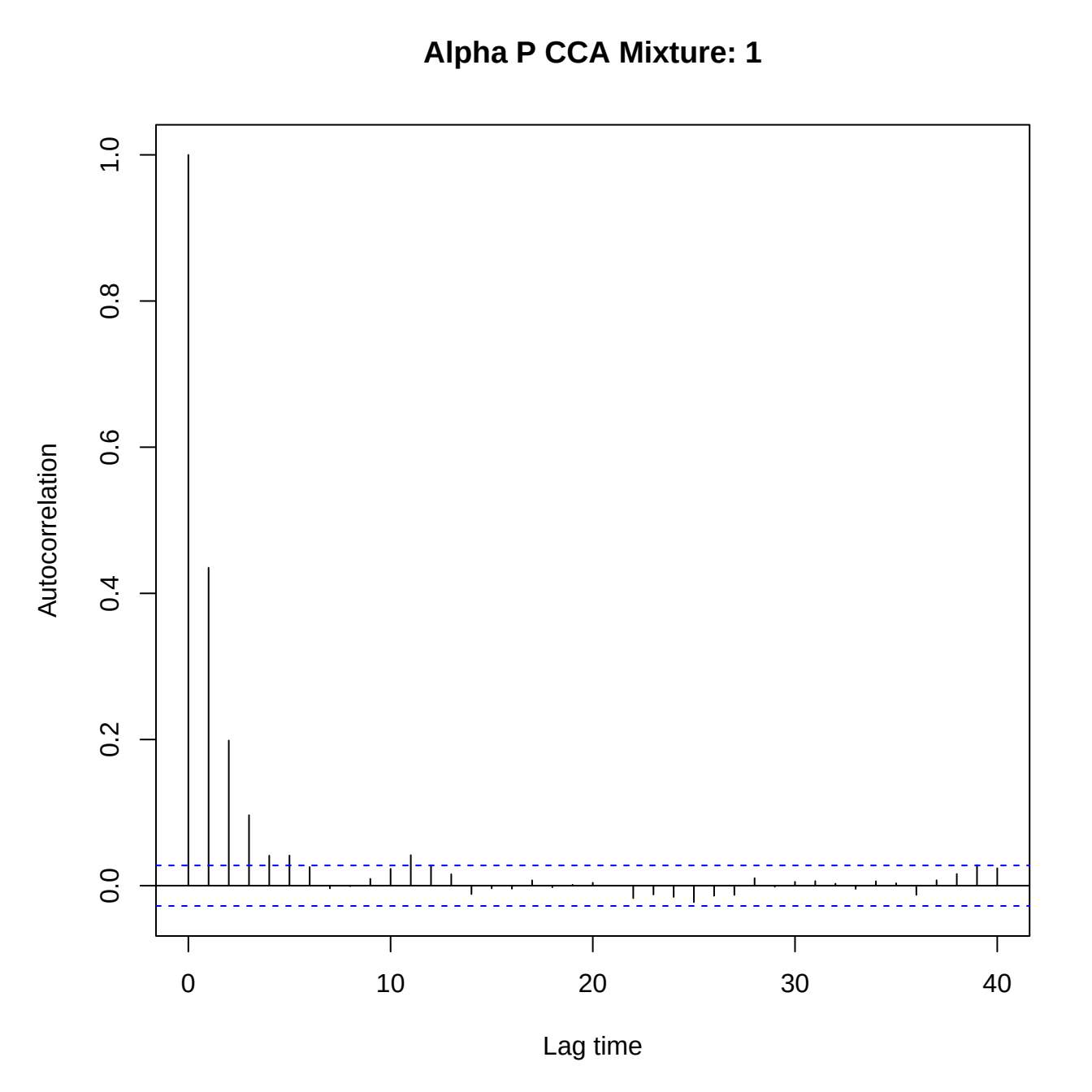
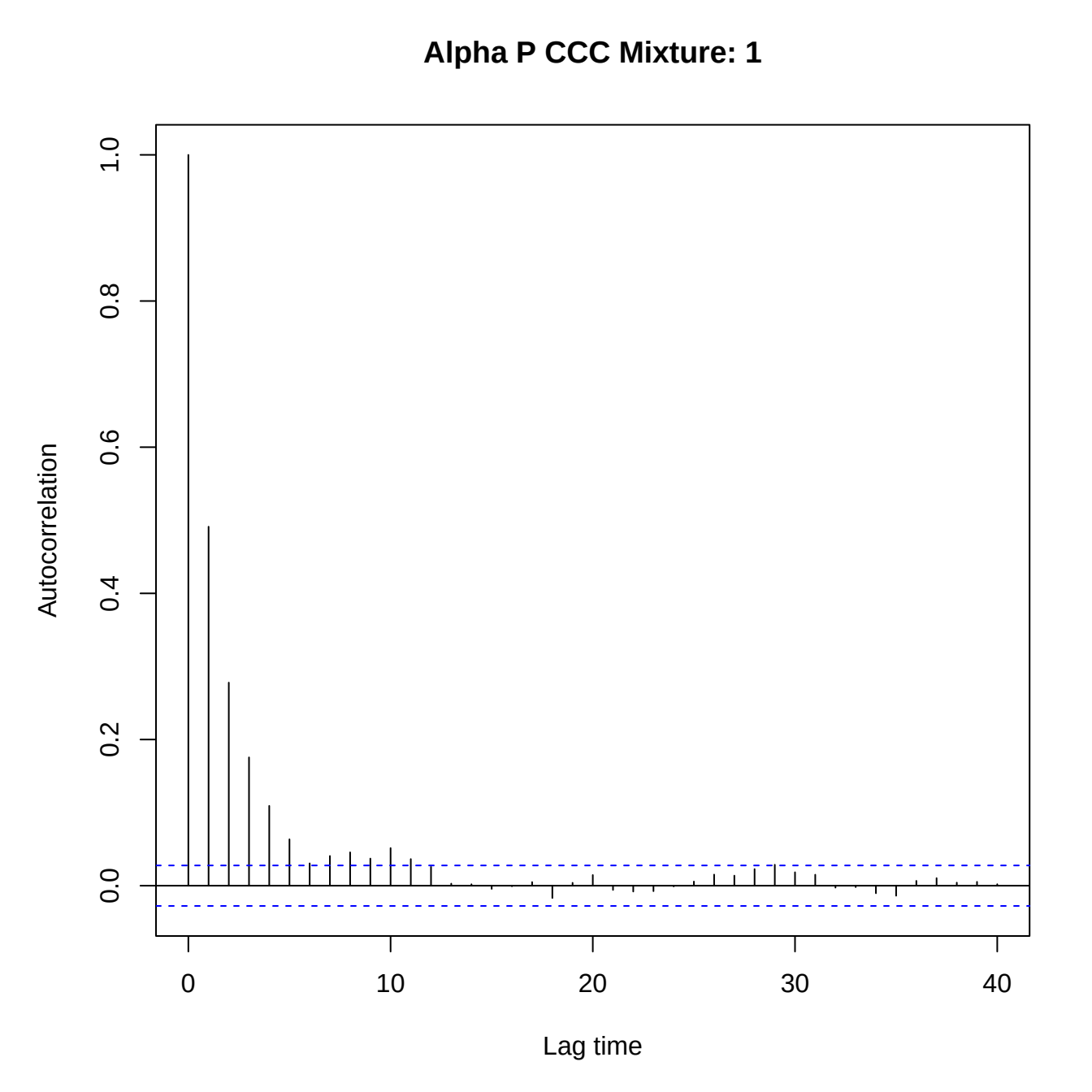
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha M ATG Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha N AAC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha N AAT Mixture: 1
Autocorrelation
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag time


Alpha P CCA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Alpha P CCC Mixture: 1
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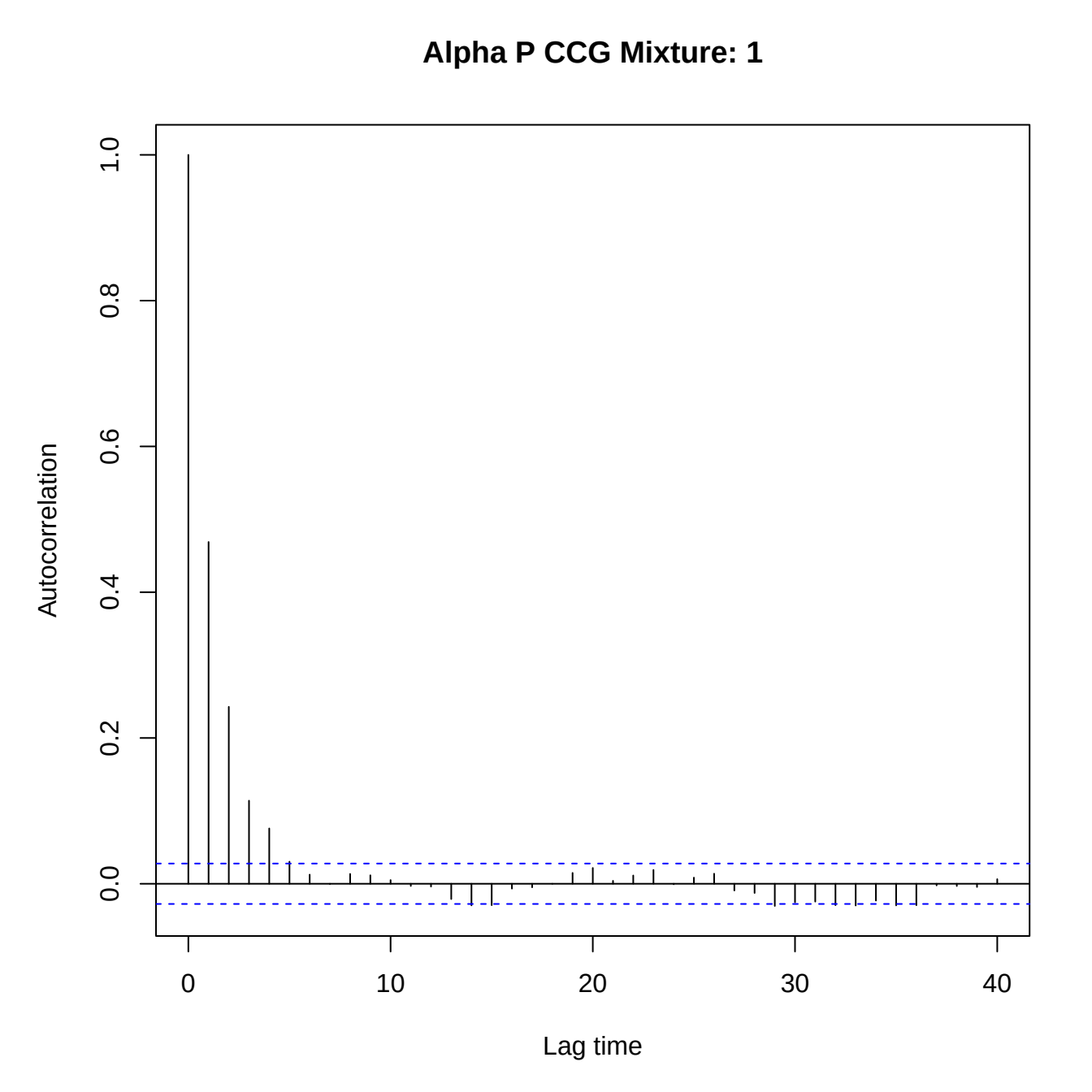
Lag time


Alpha P CCG Mixture: 1
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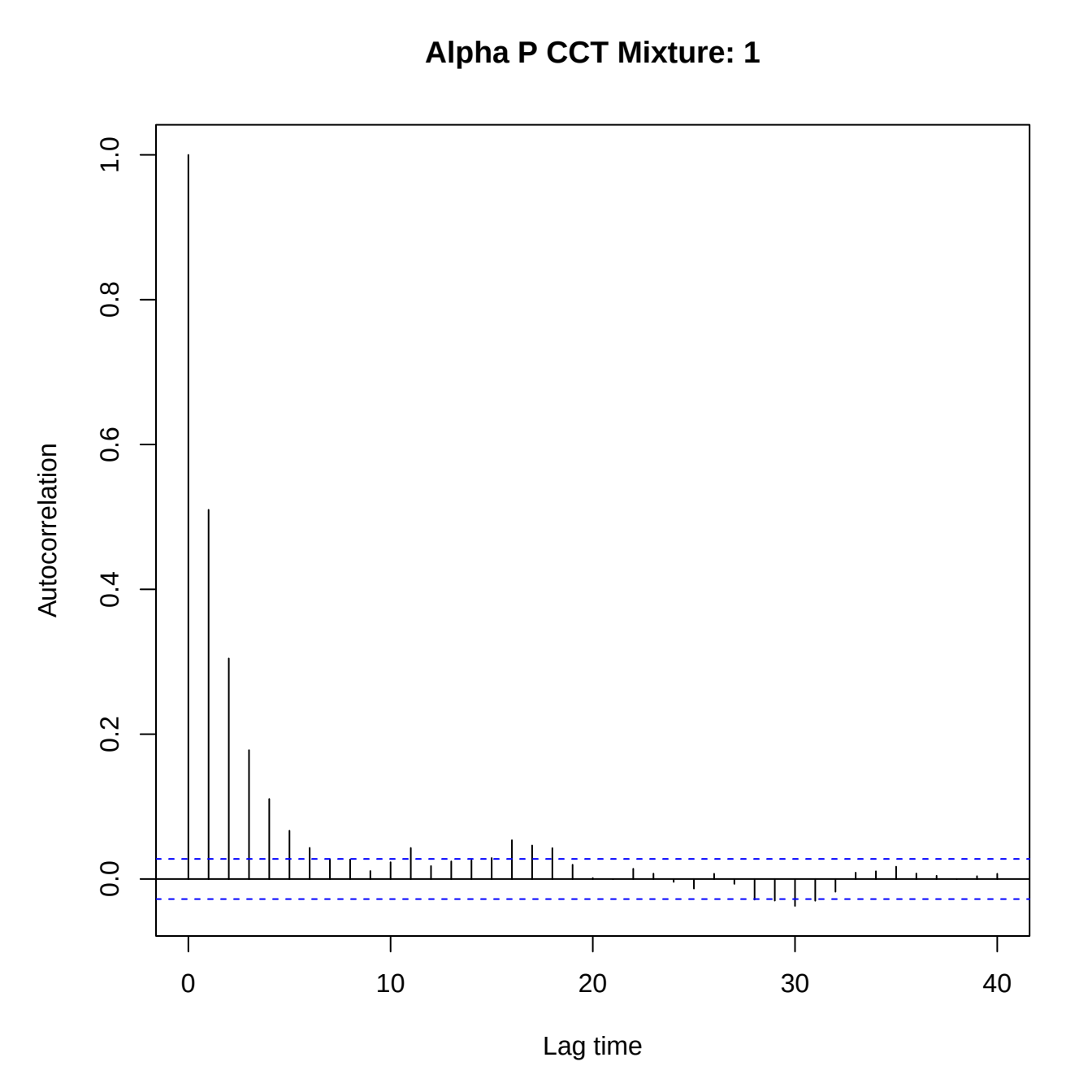
Lag time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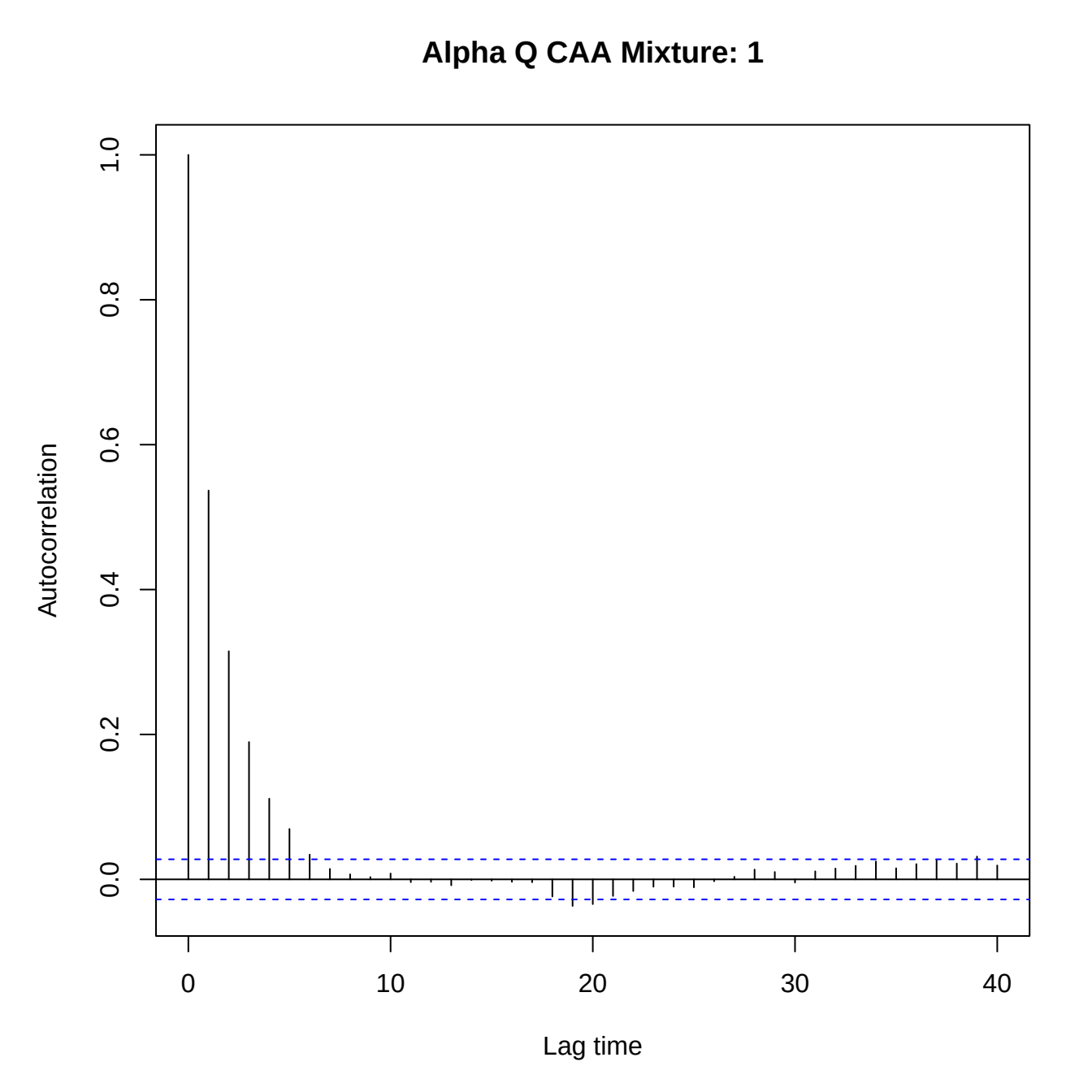
Lag time


Alpha Q CAA Mixture: 1
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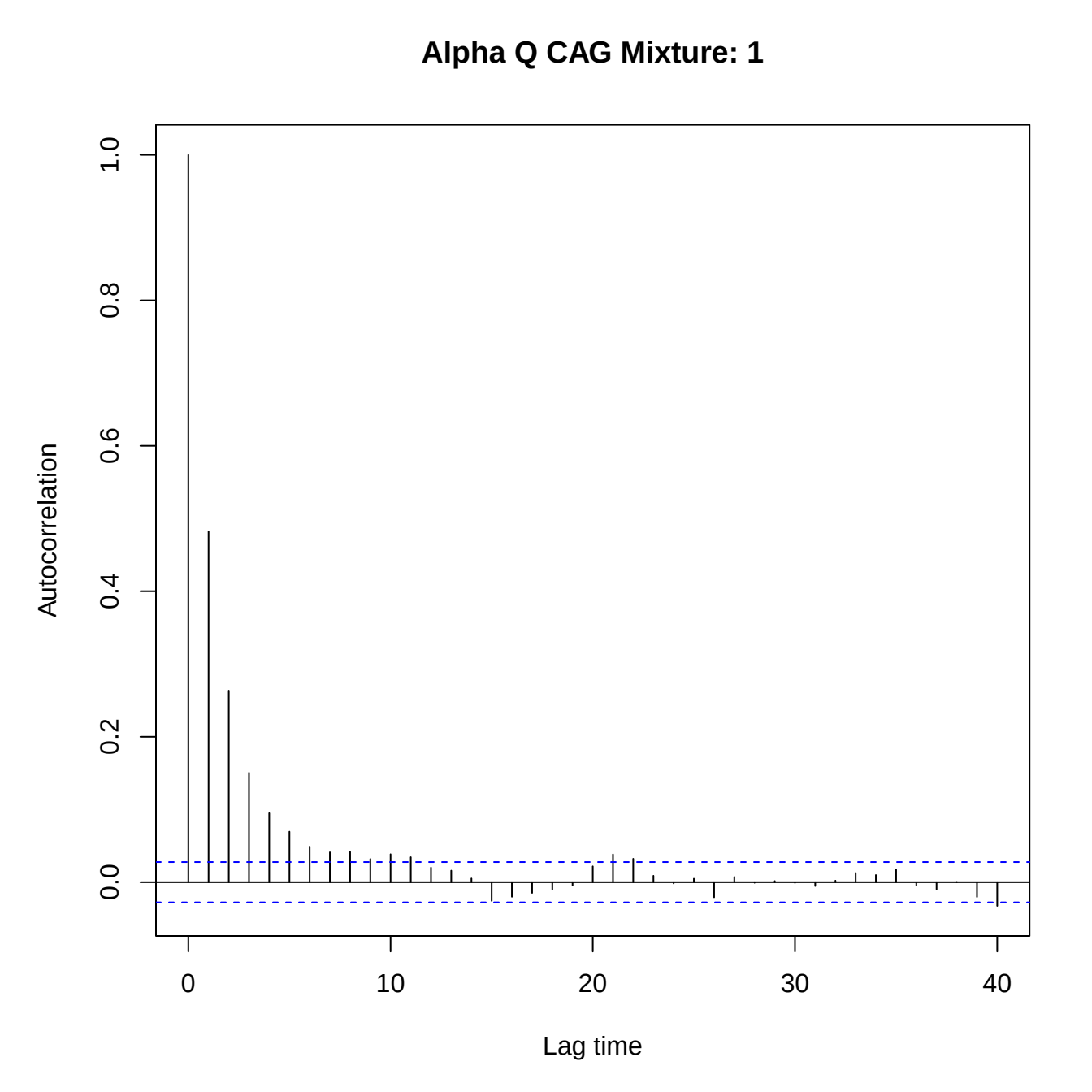
Lag time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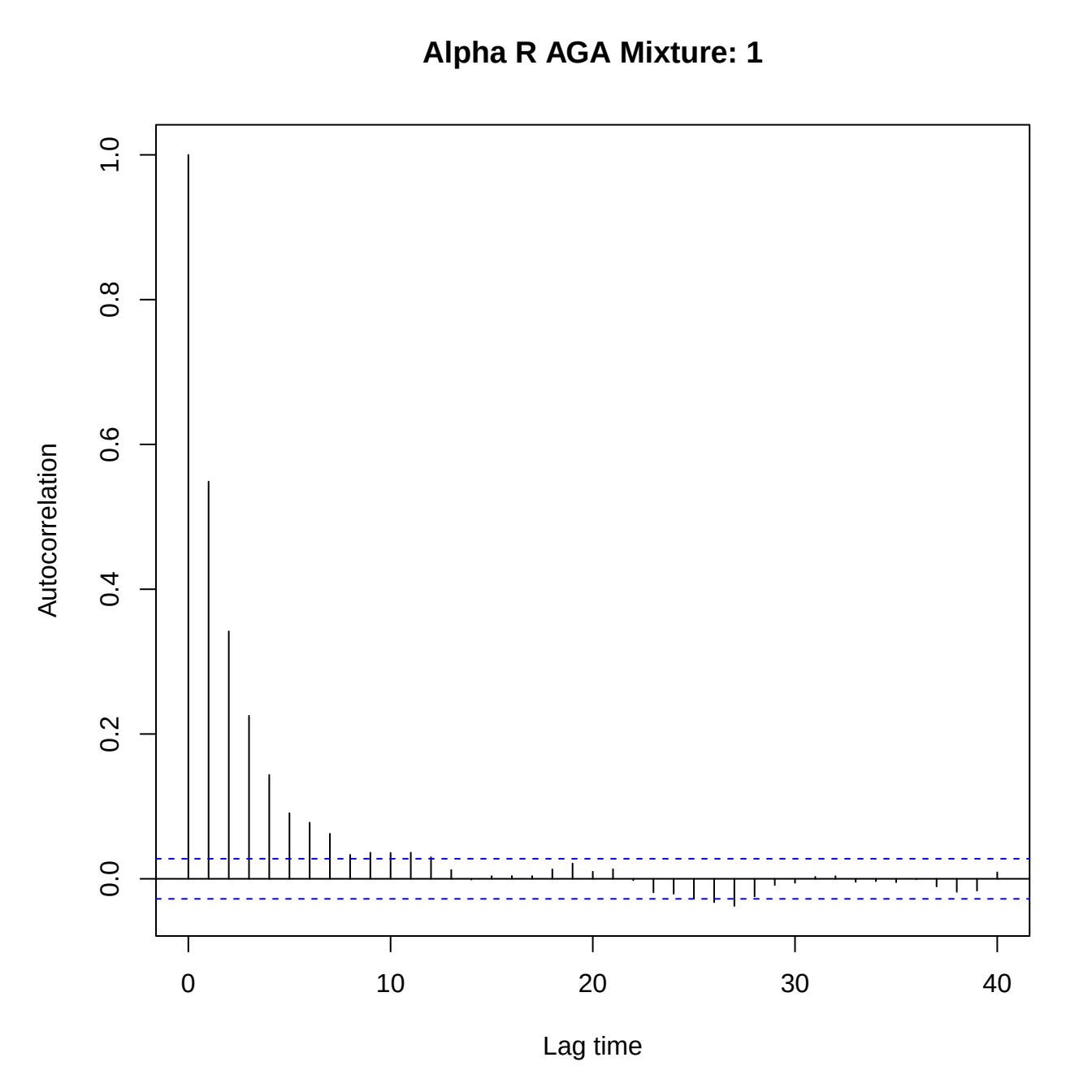
Lag time


Alpha R AGA Mixture: 1
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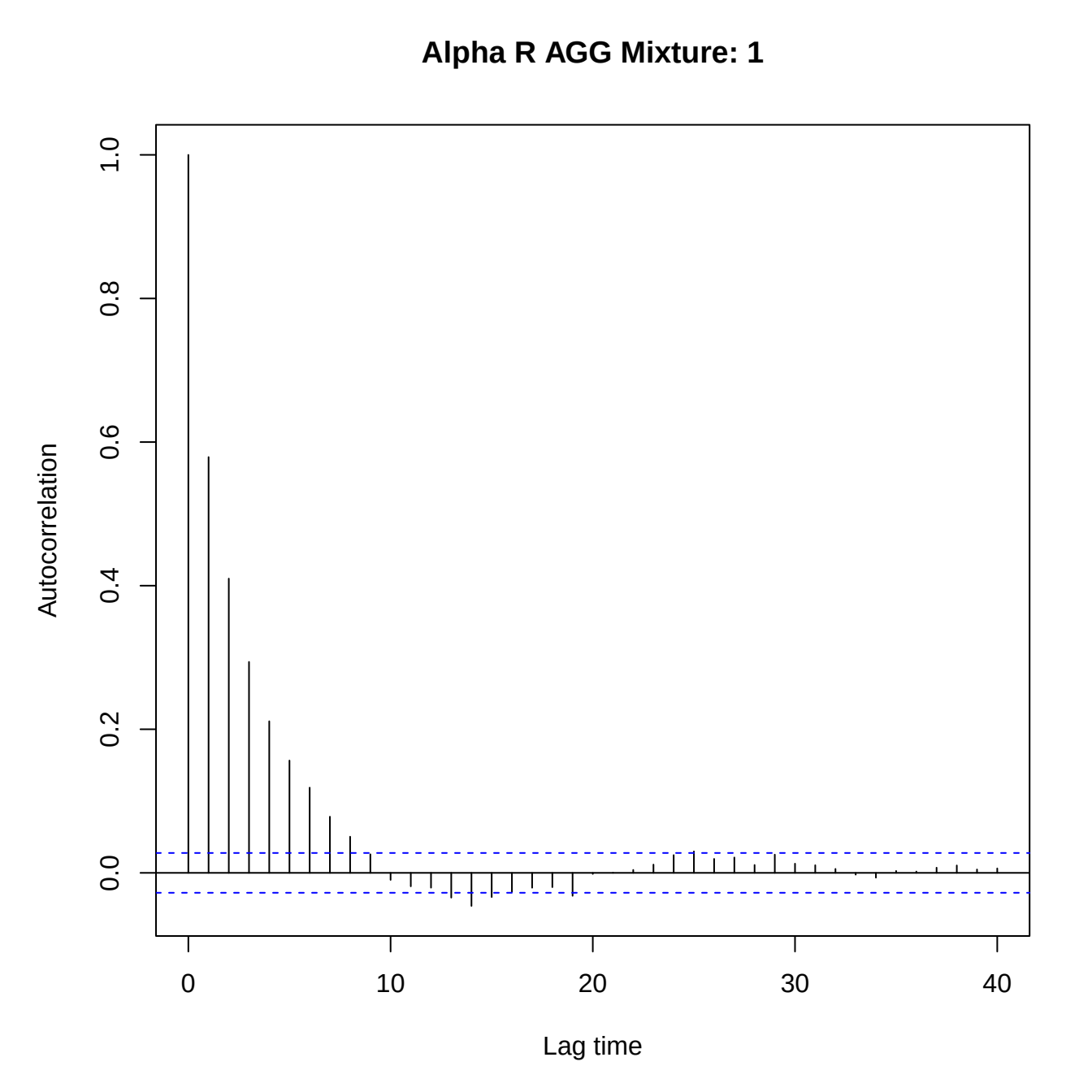
Lag time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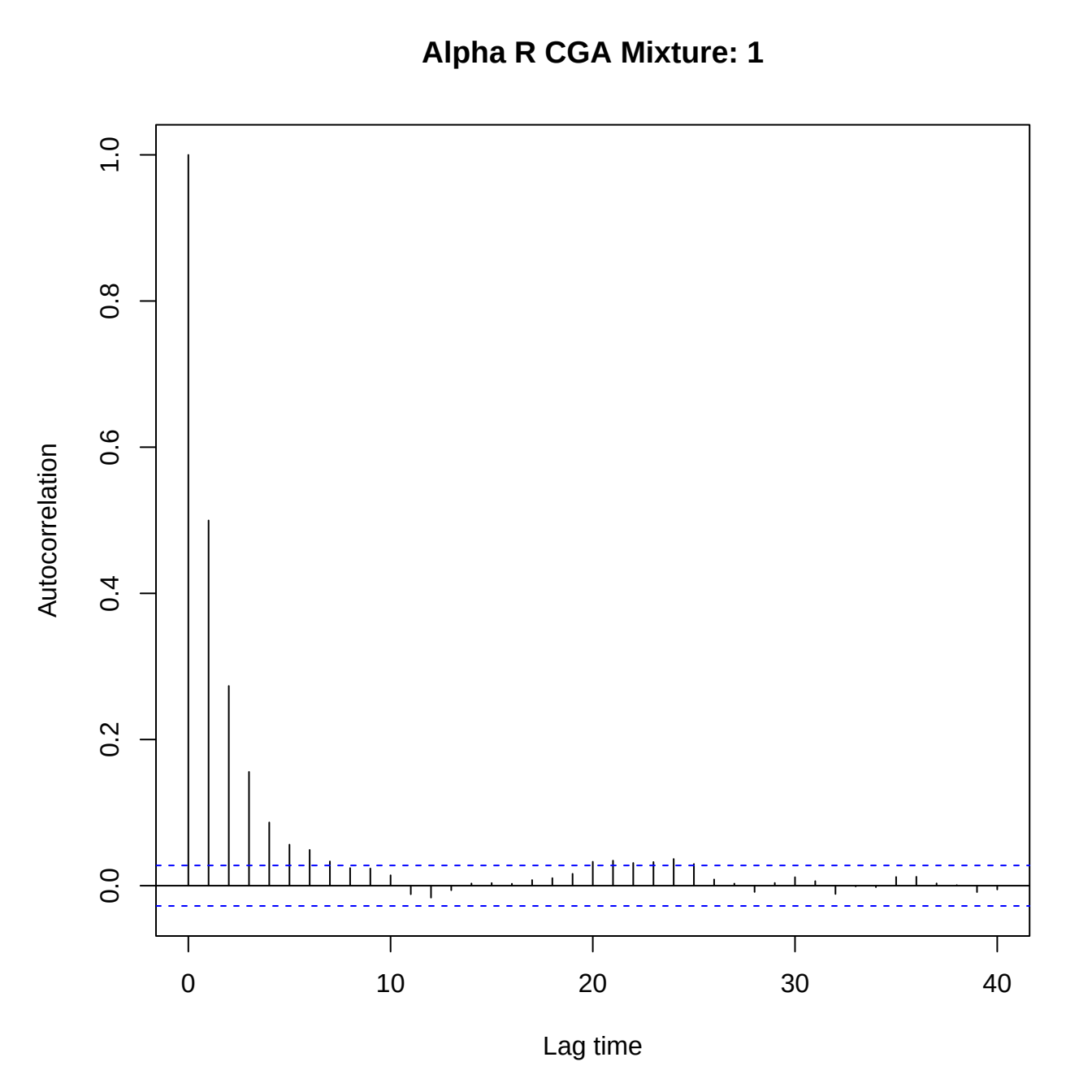
Lag time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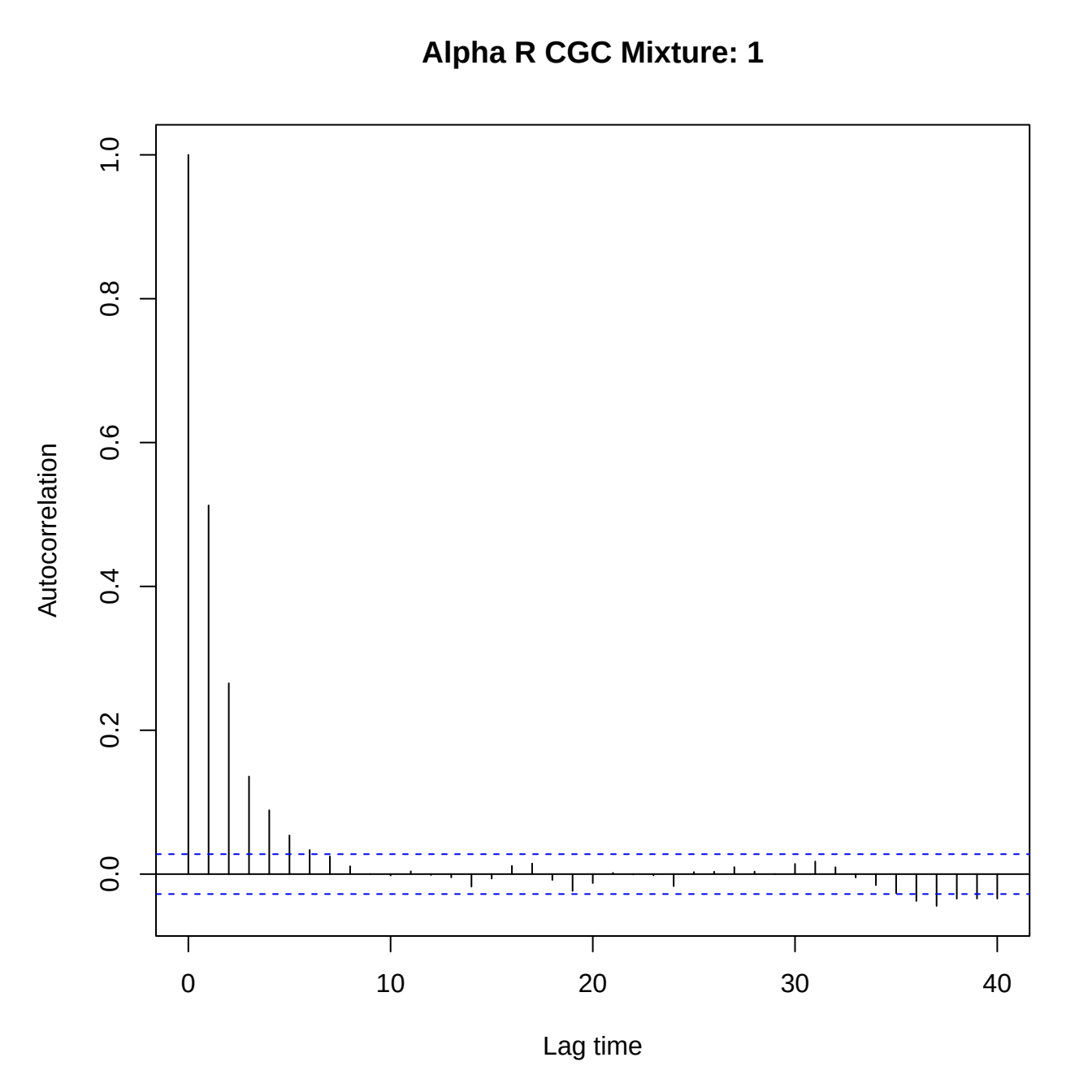
Lag time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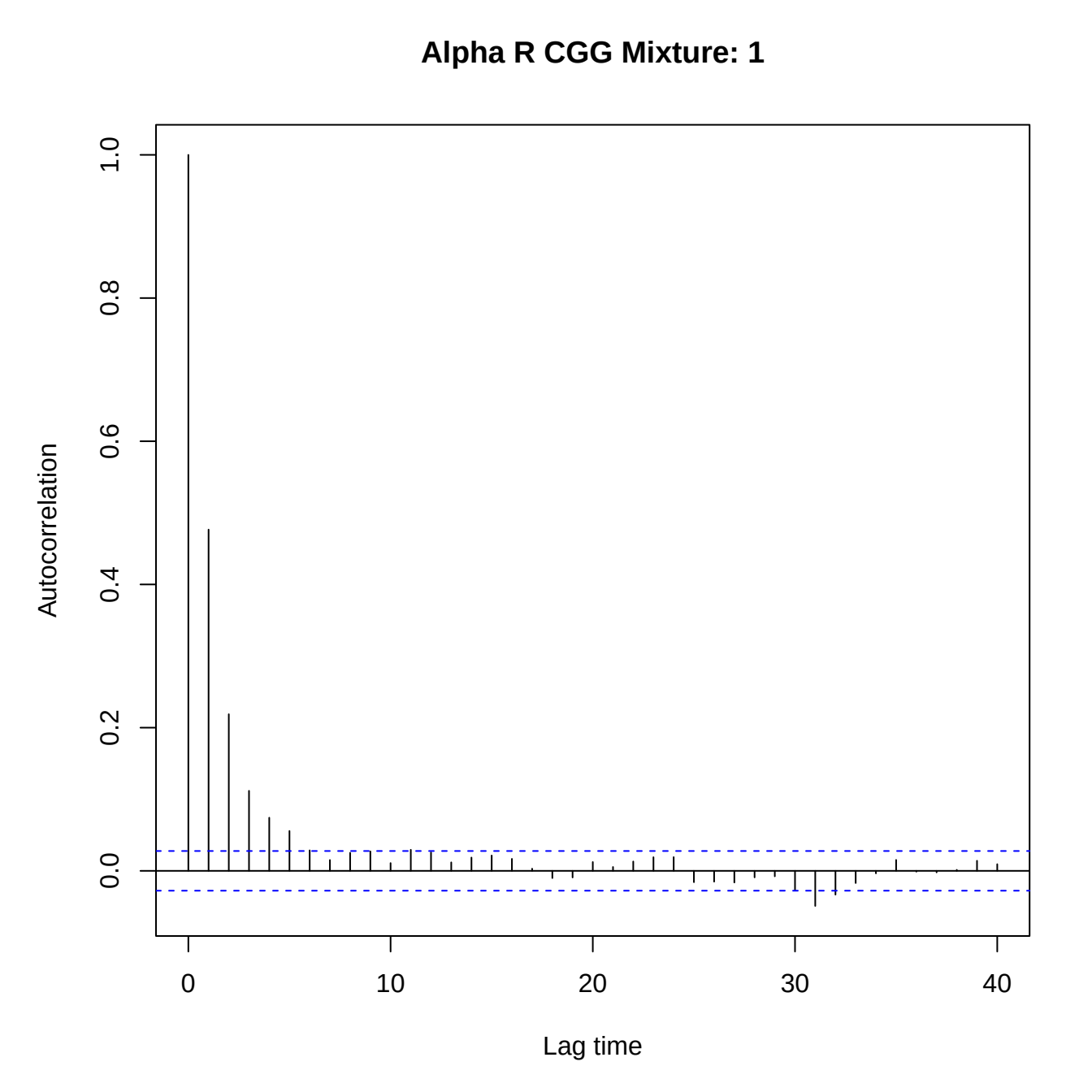
Lag time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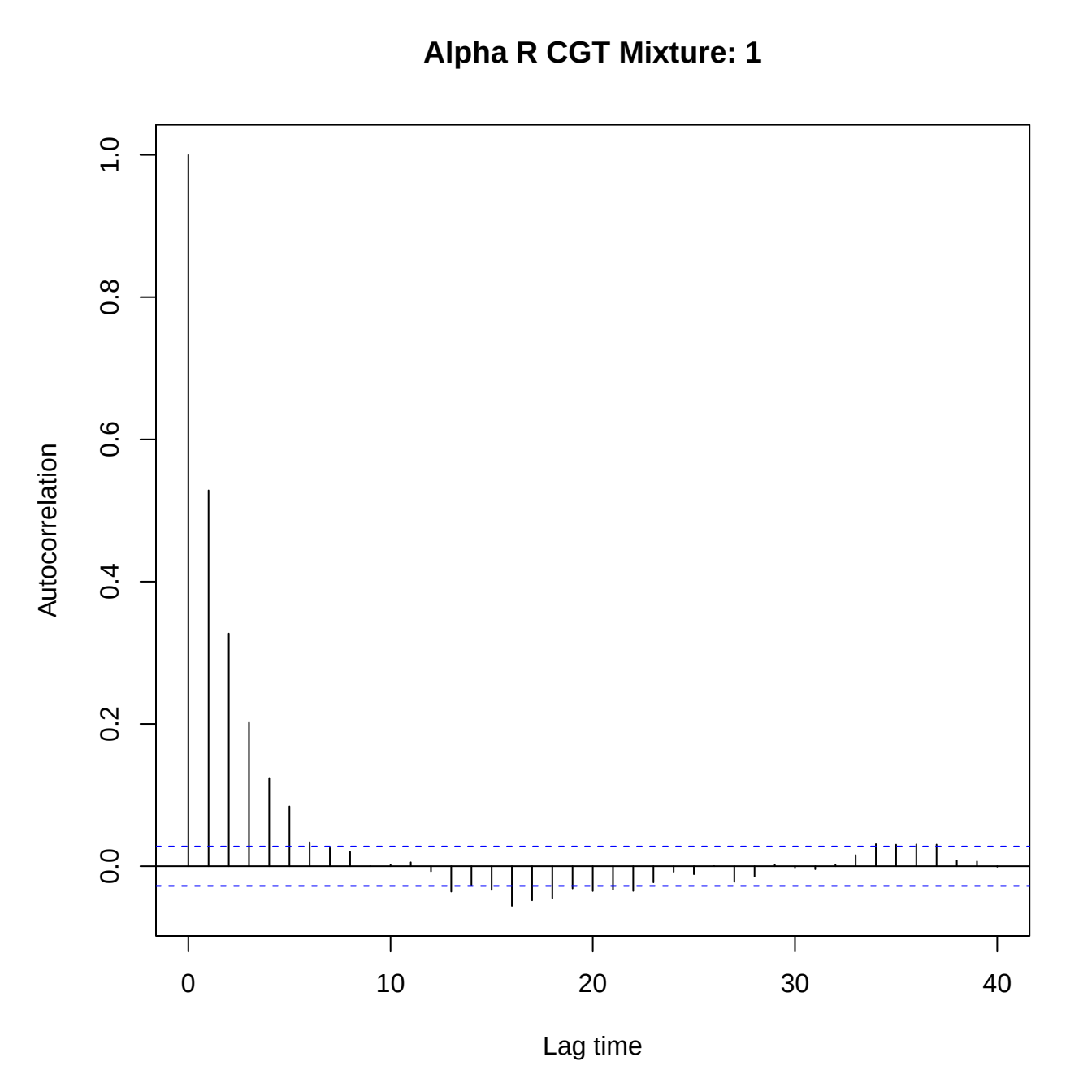
Lag time


Alpha R CGT Mixture: 1
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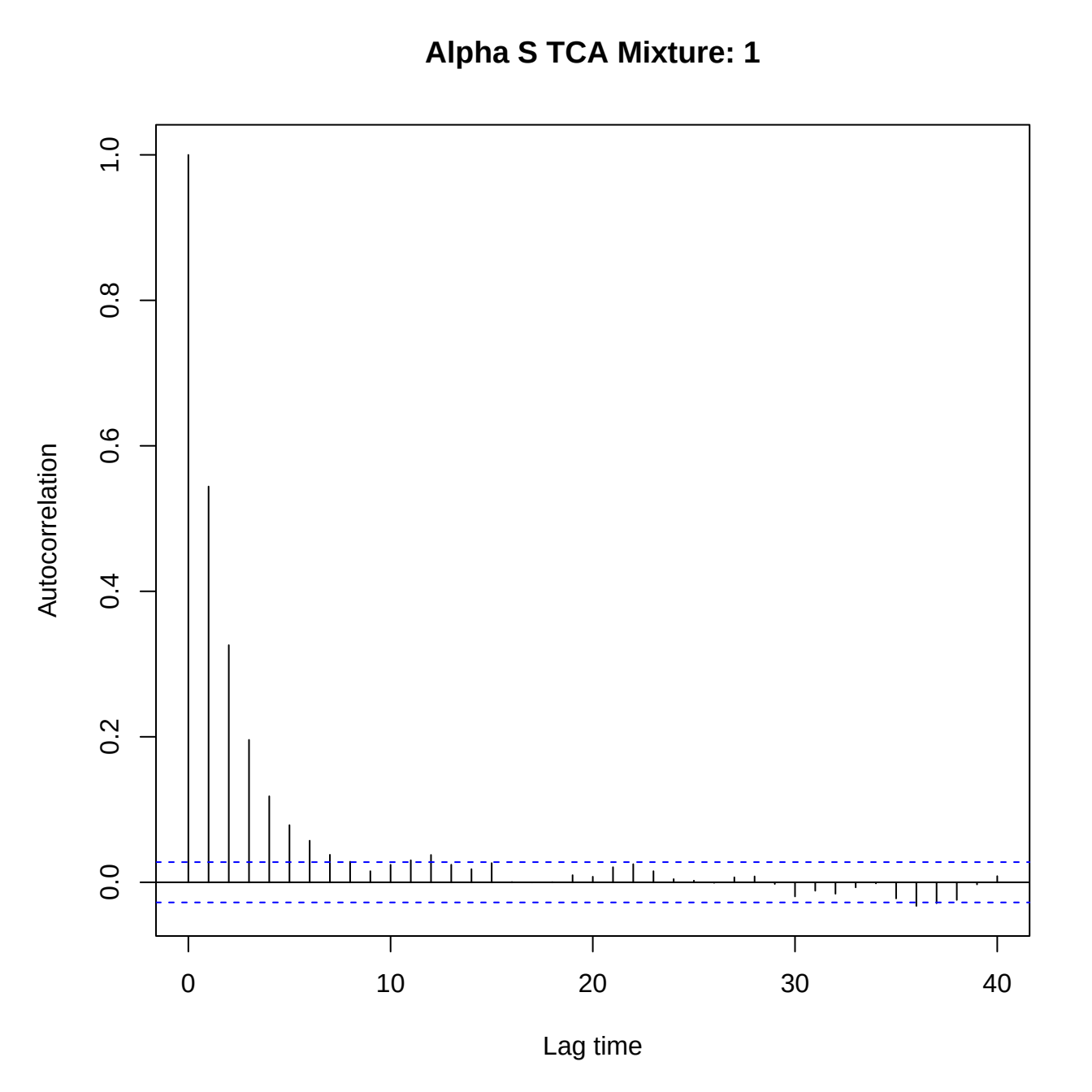
Lag time


Alpha S TCA Mixture: 1
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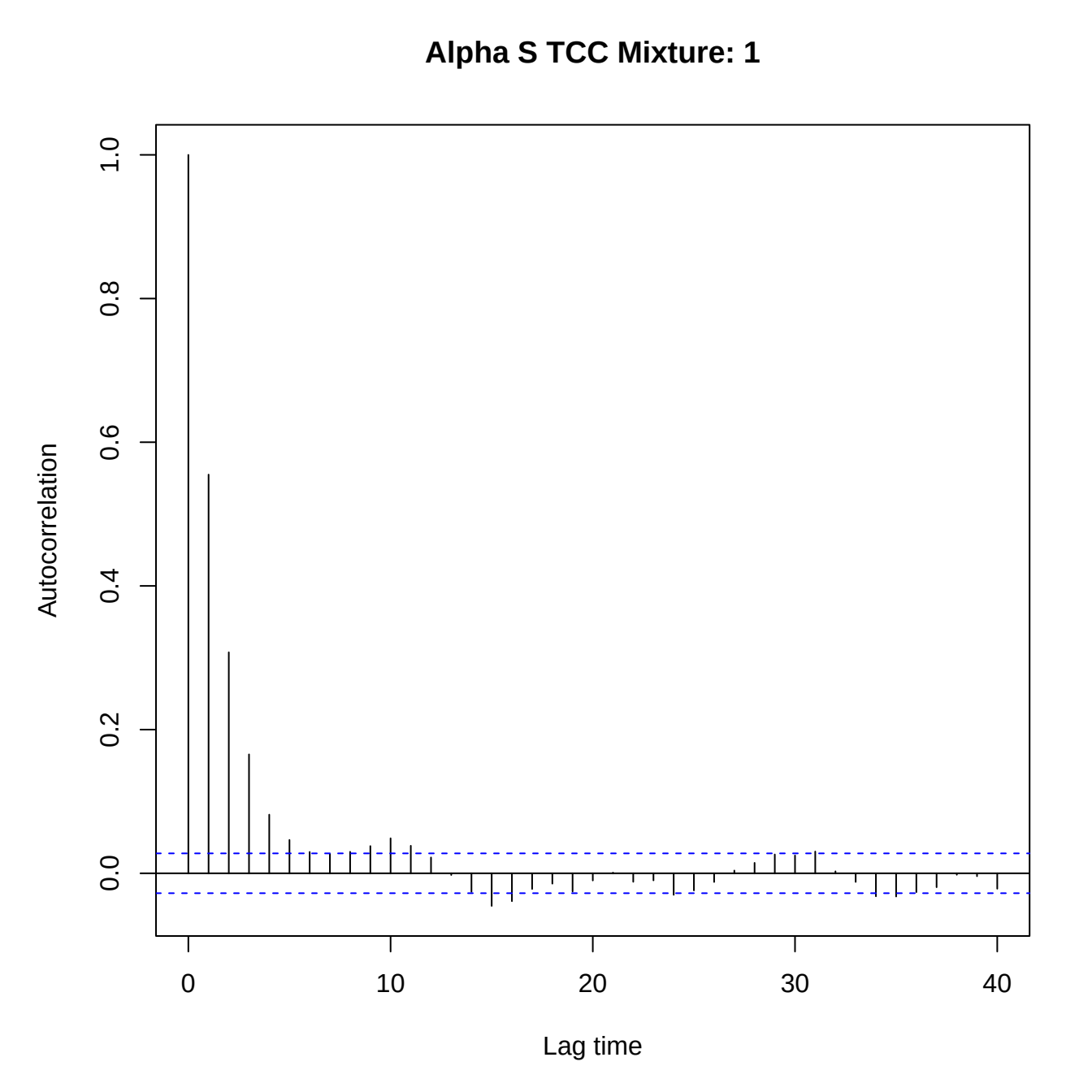
Lag time


Alpha S TCC Mixture: 1
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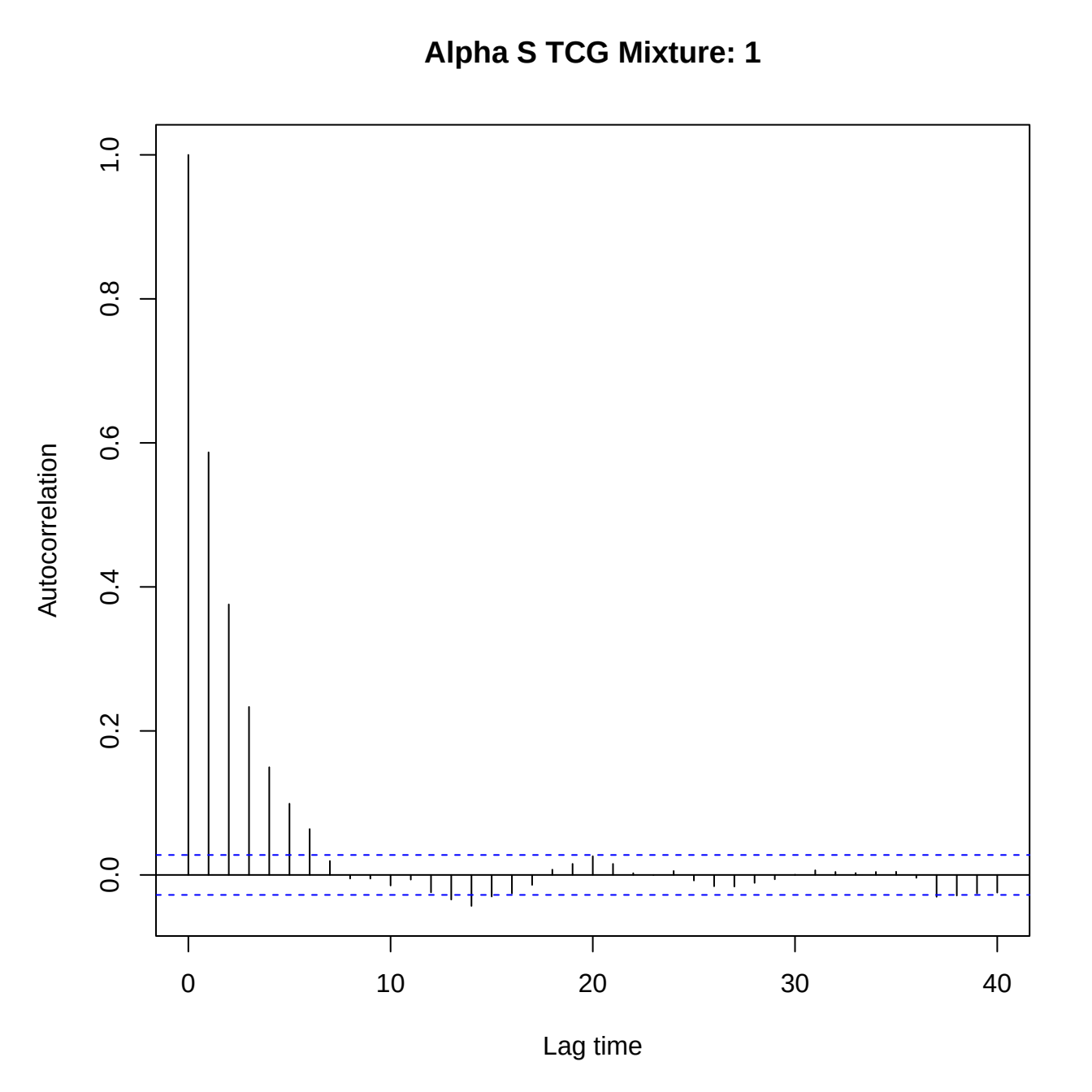
Lag time


Alpha S TCG Mixture: 1
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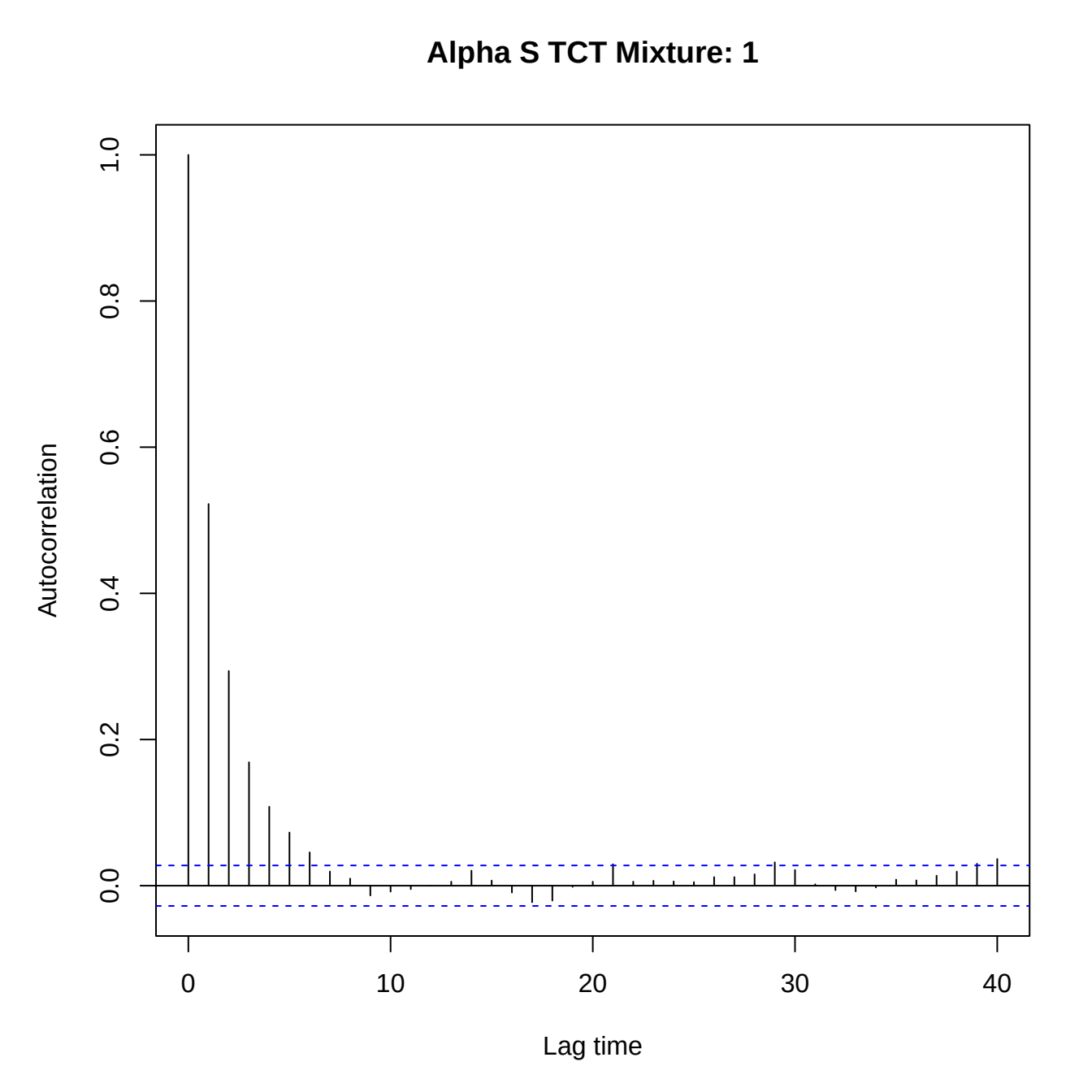
Lag time


Alpha S TCT Mixture: 1
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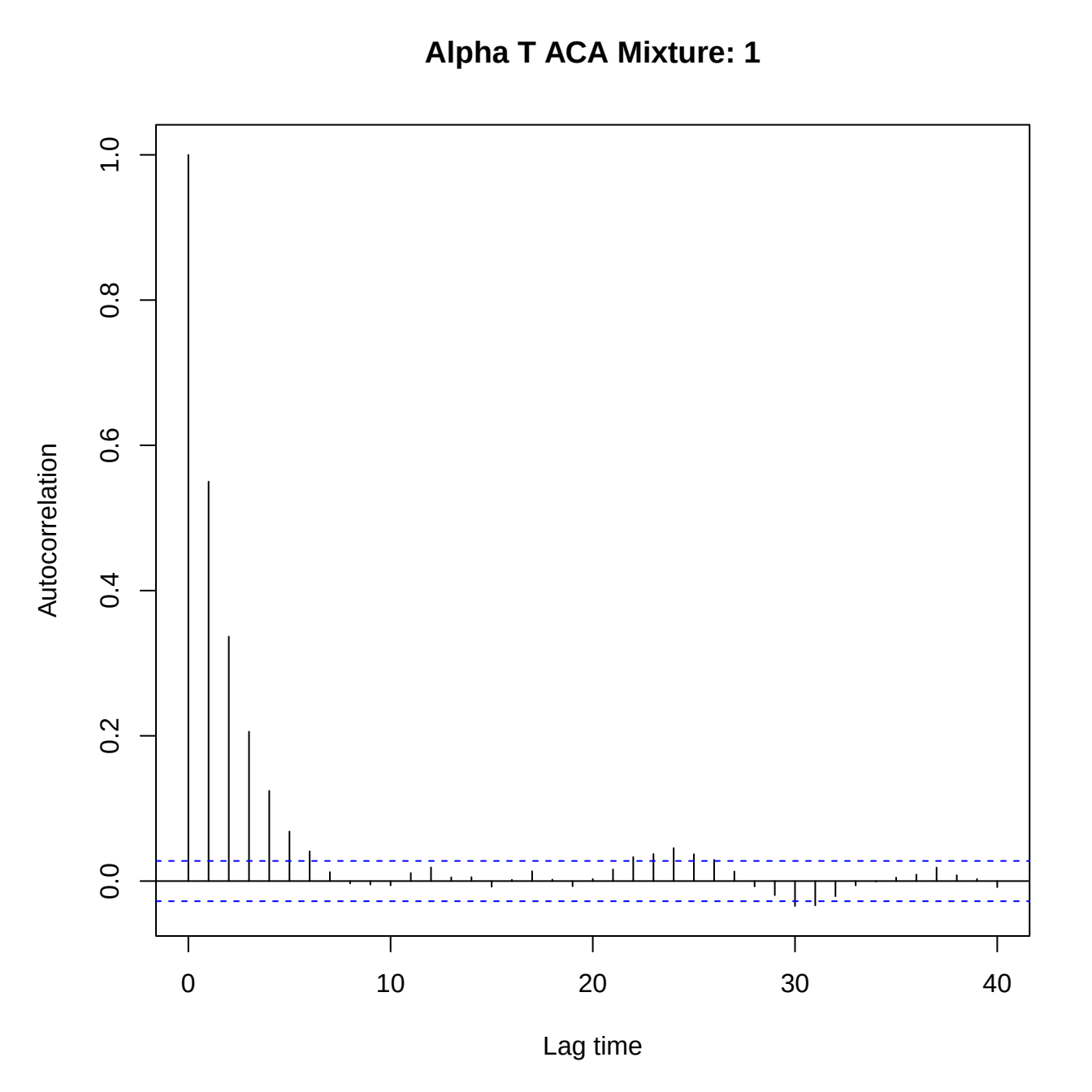
Lag time


Alpha T ACA Mixture: 1
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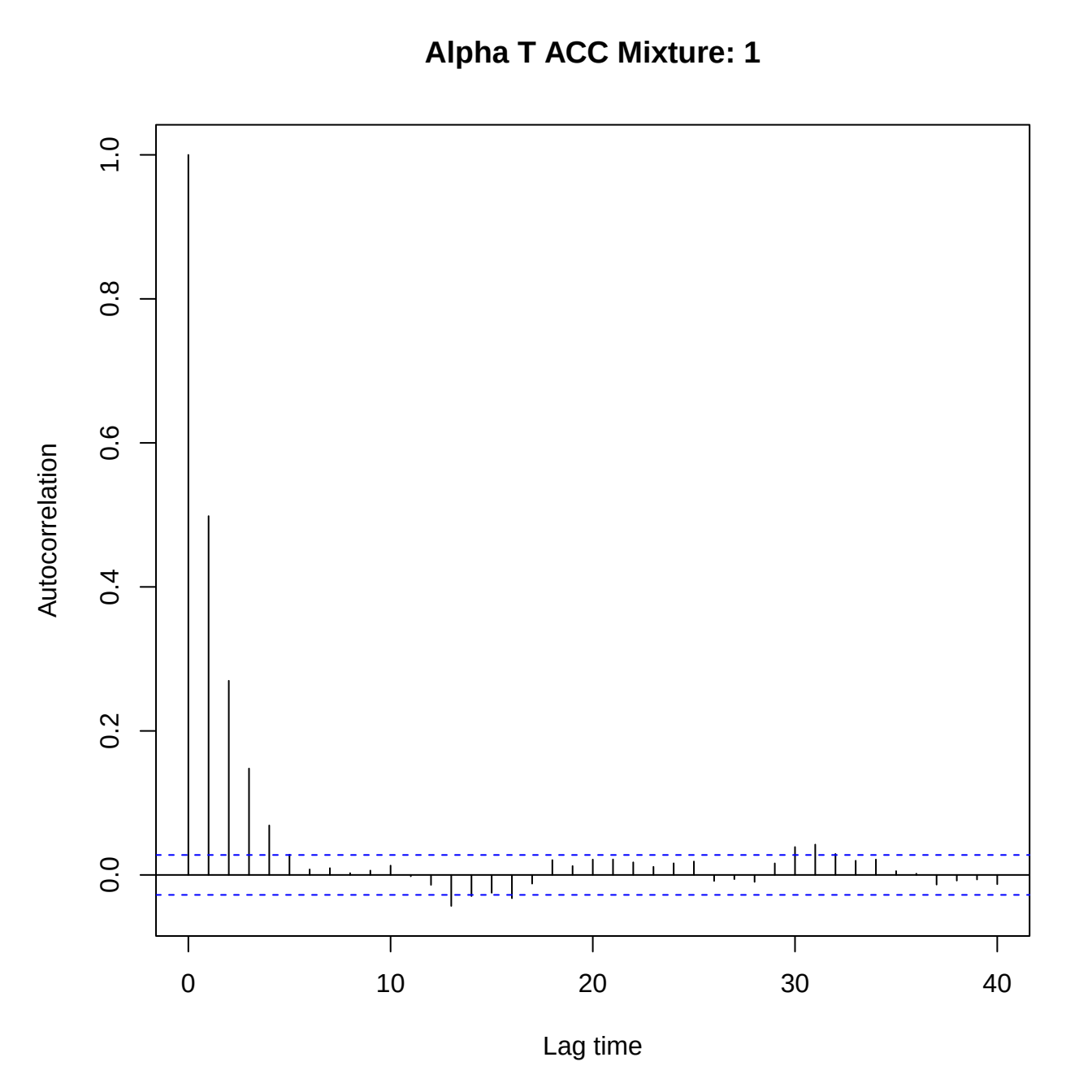
Lag time


Alpha T ACC Mixture: 1
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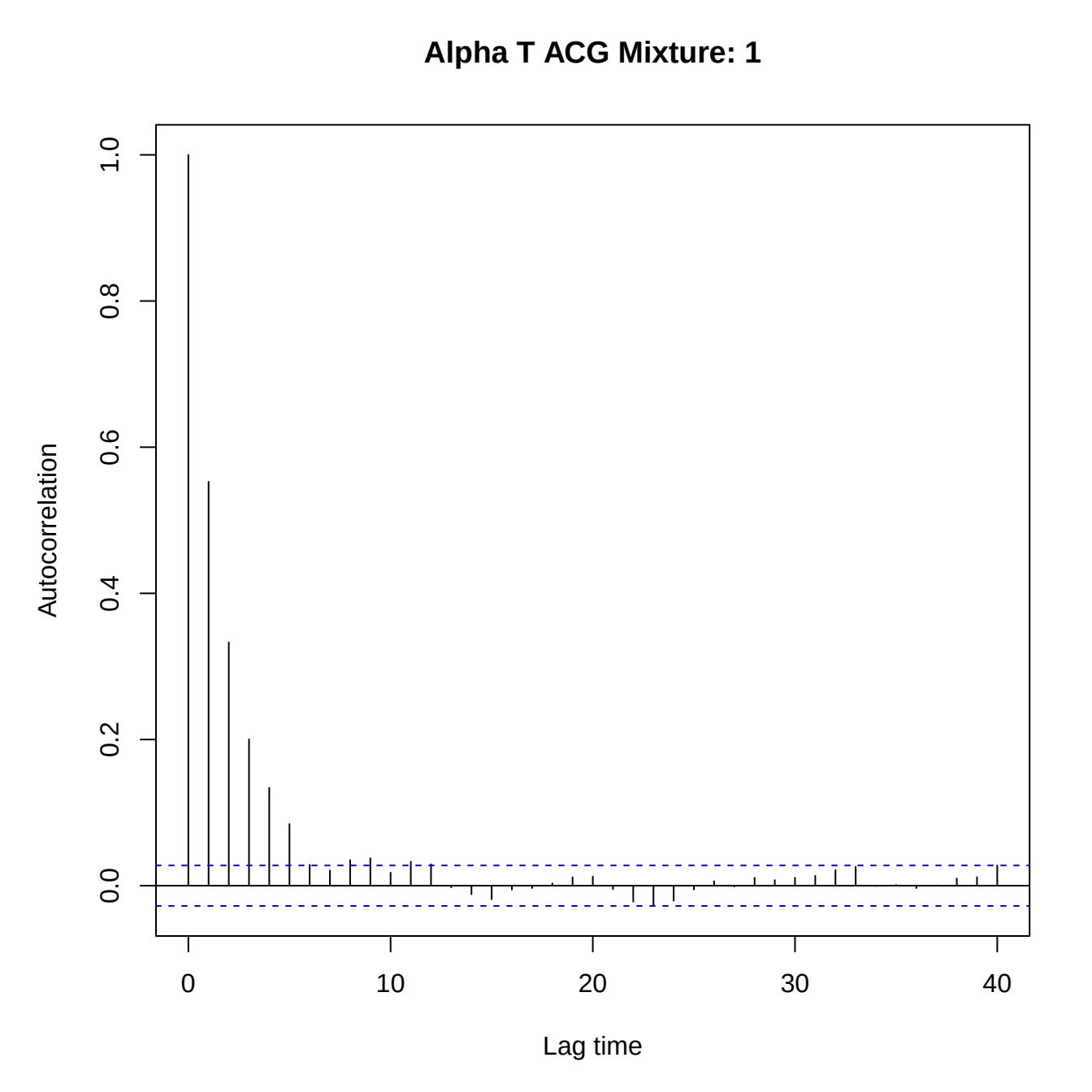
Lag time


Alpha T ACG Mixture: 1
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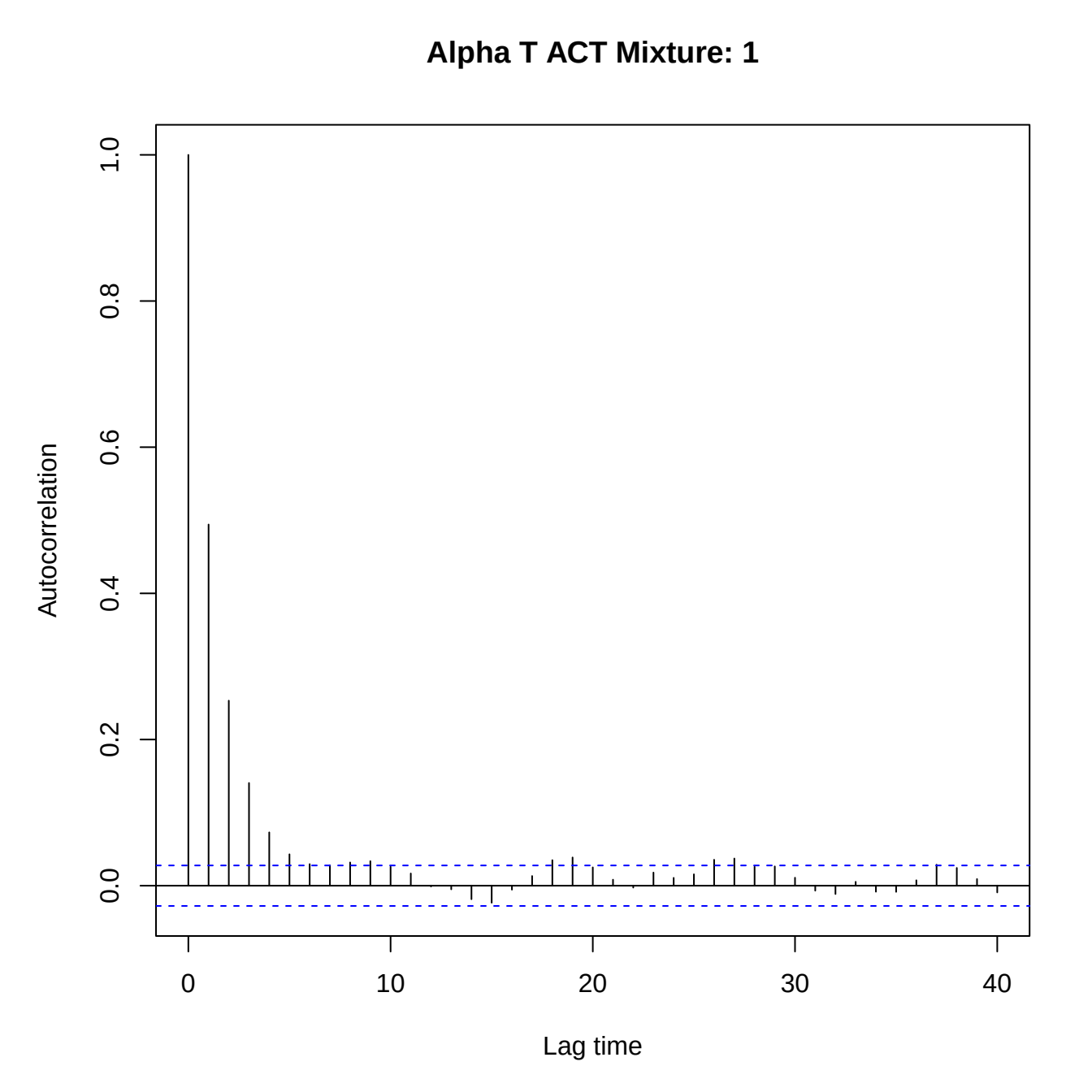
Lag time


Alpha T ACT Mixture: 1
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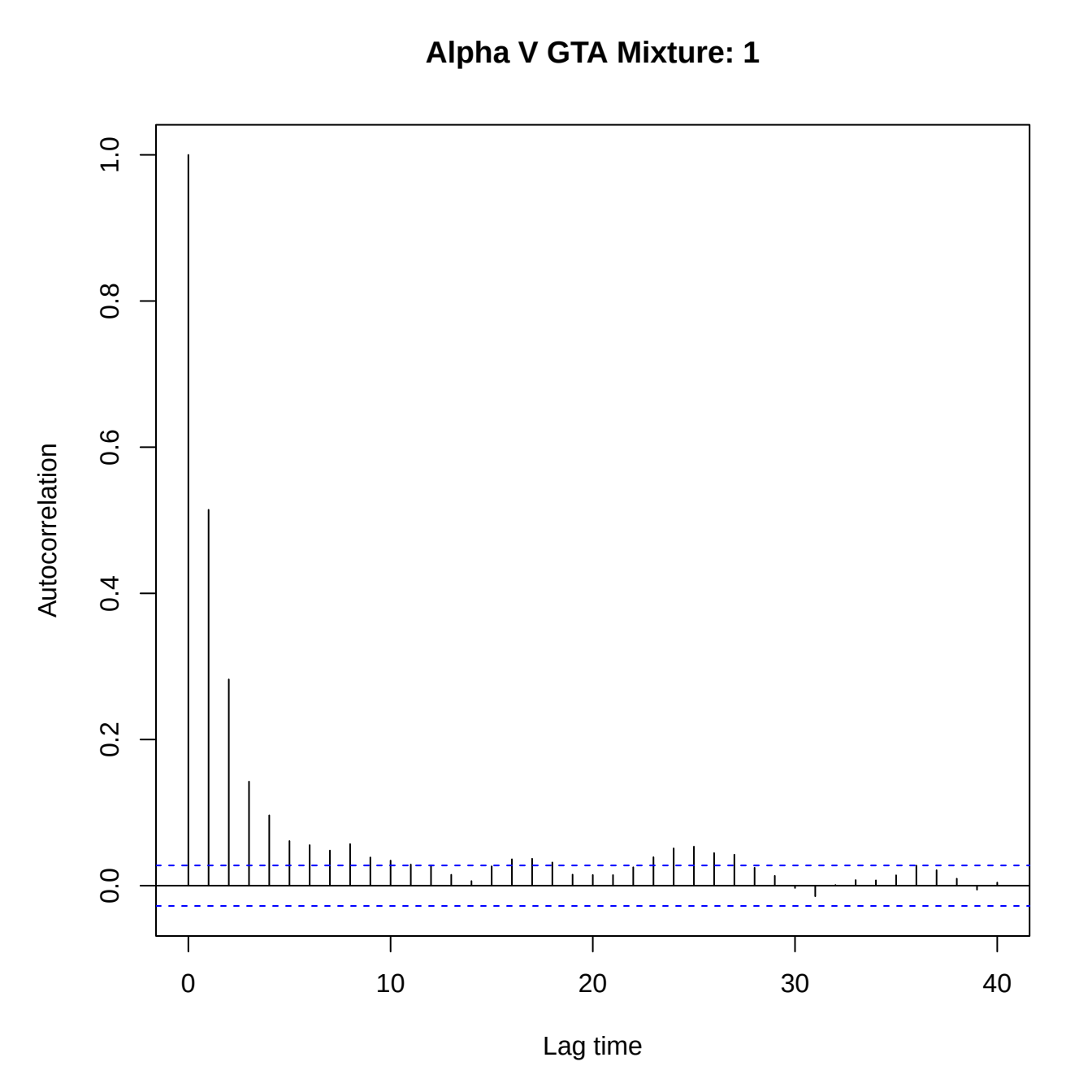
Lag time


Alpha V GTA Mixture: 1
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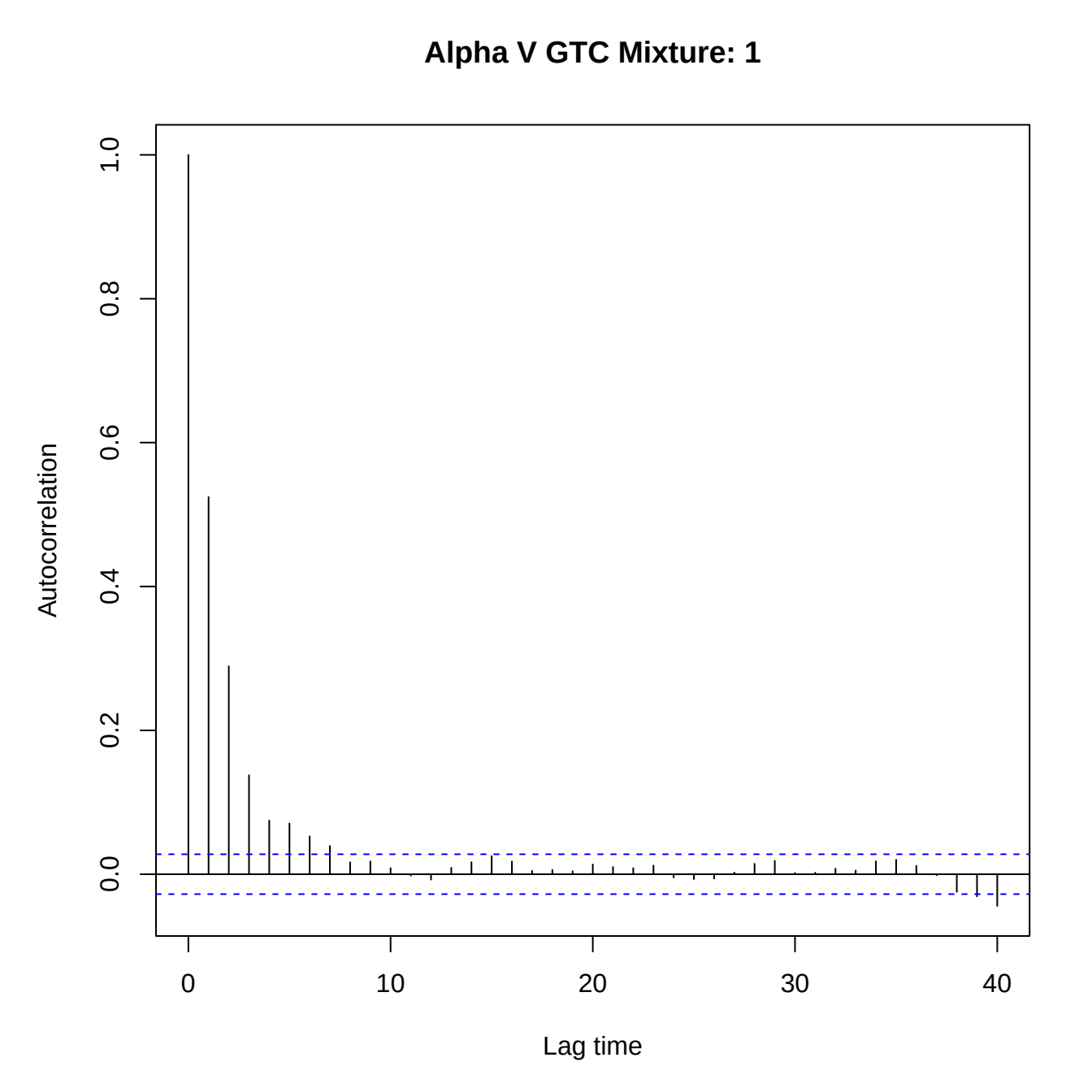
Lag time


Alpha V GTC Mixture: 1
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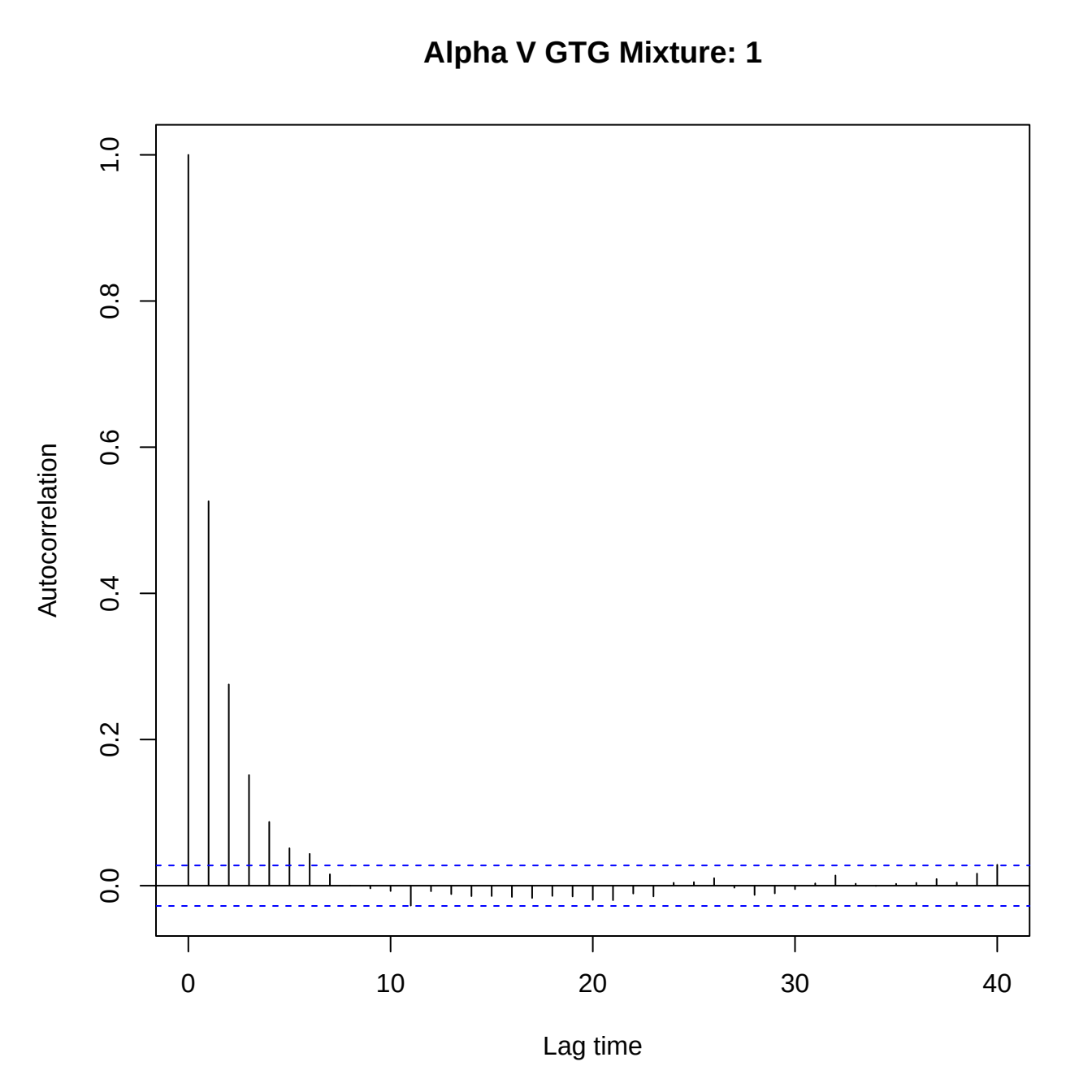
Lag time


Alpha V GTG Mixture: 1
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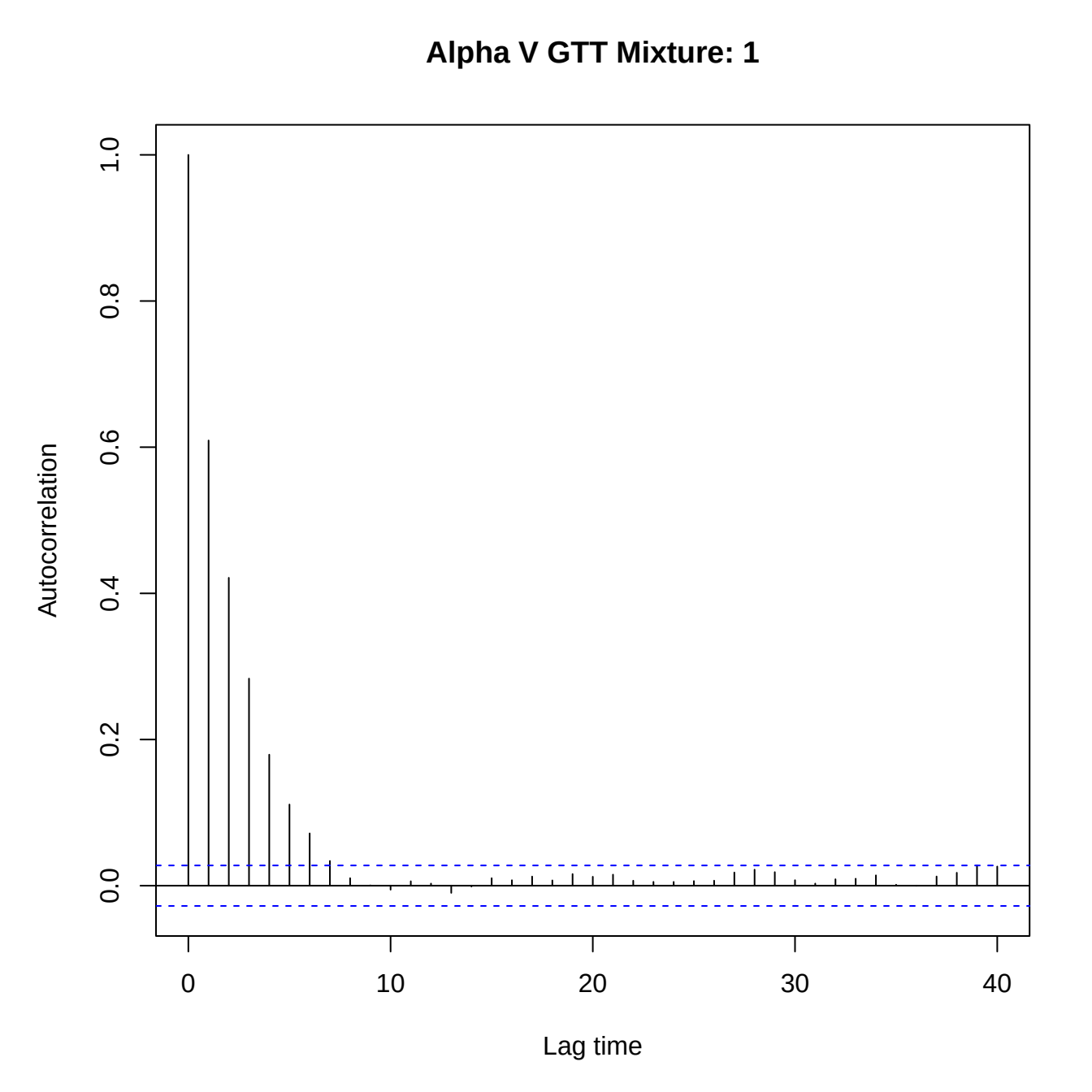
Lag time


Alpha V GTT Mixture: 1
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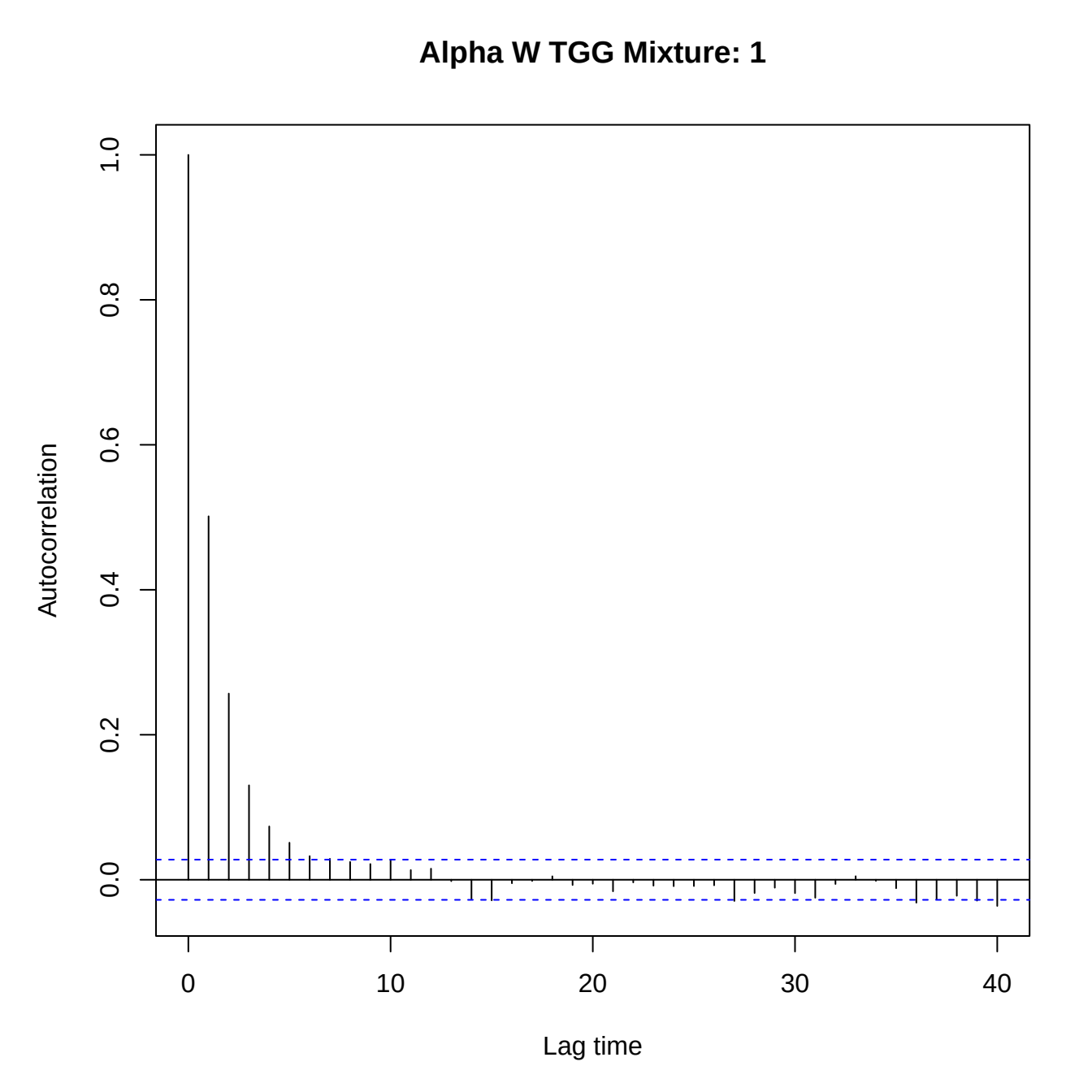
Lag time


Alpha W TGG Mixture: 1
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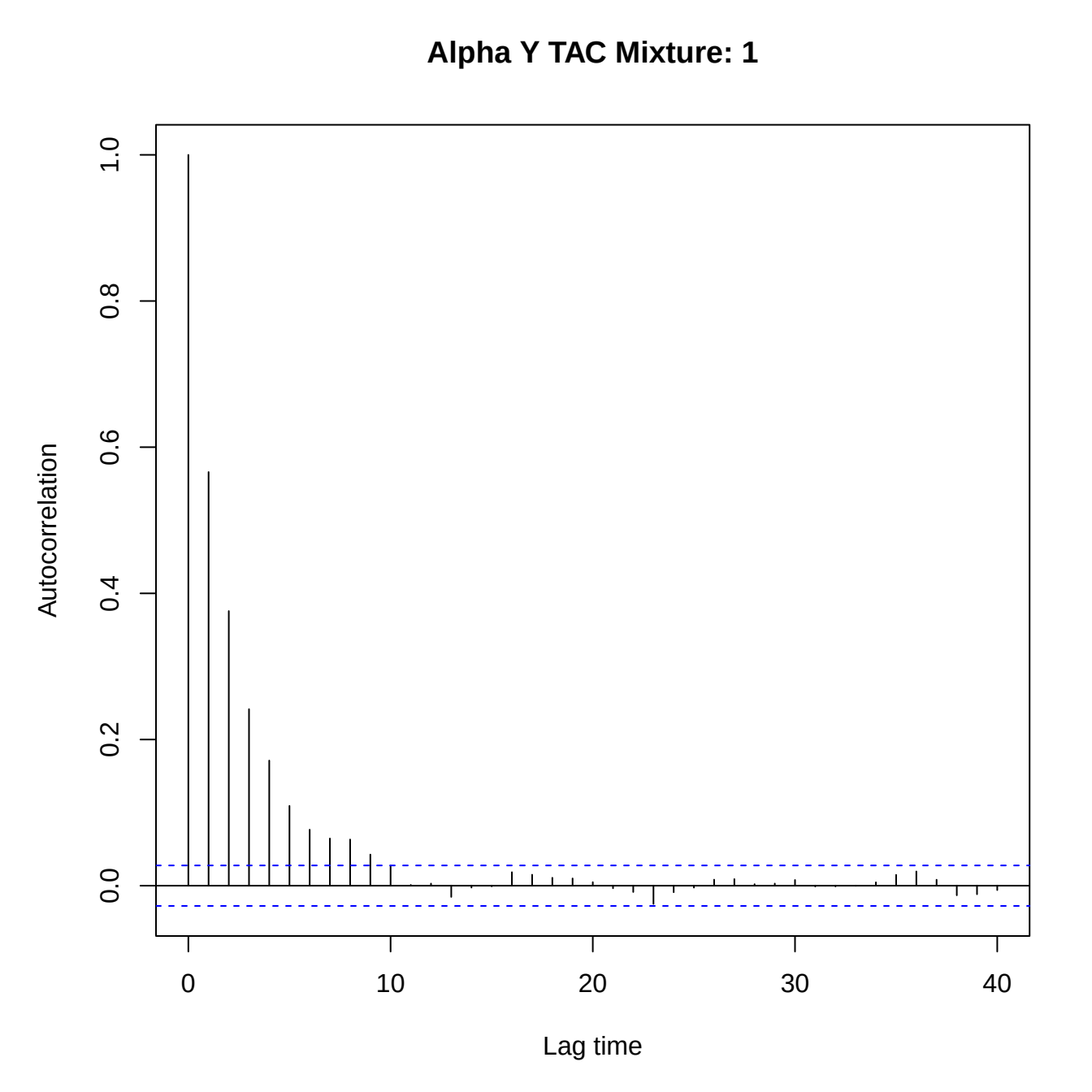
Lag time


Alpha Y TAC Mixture: 1
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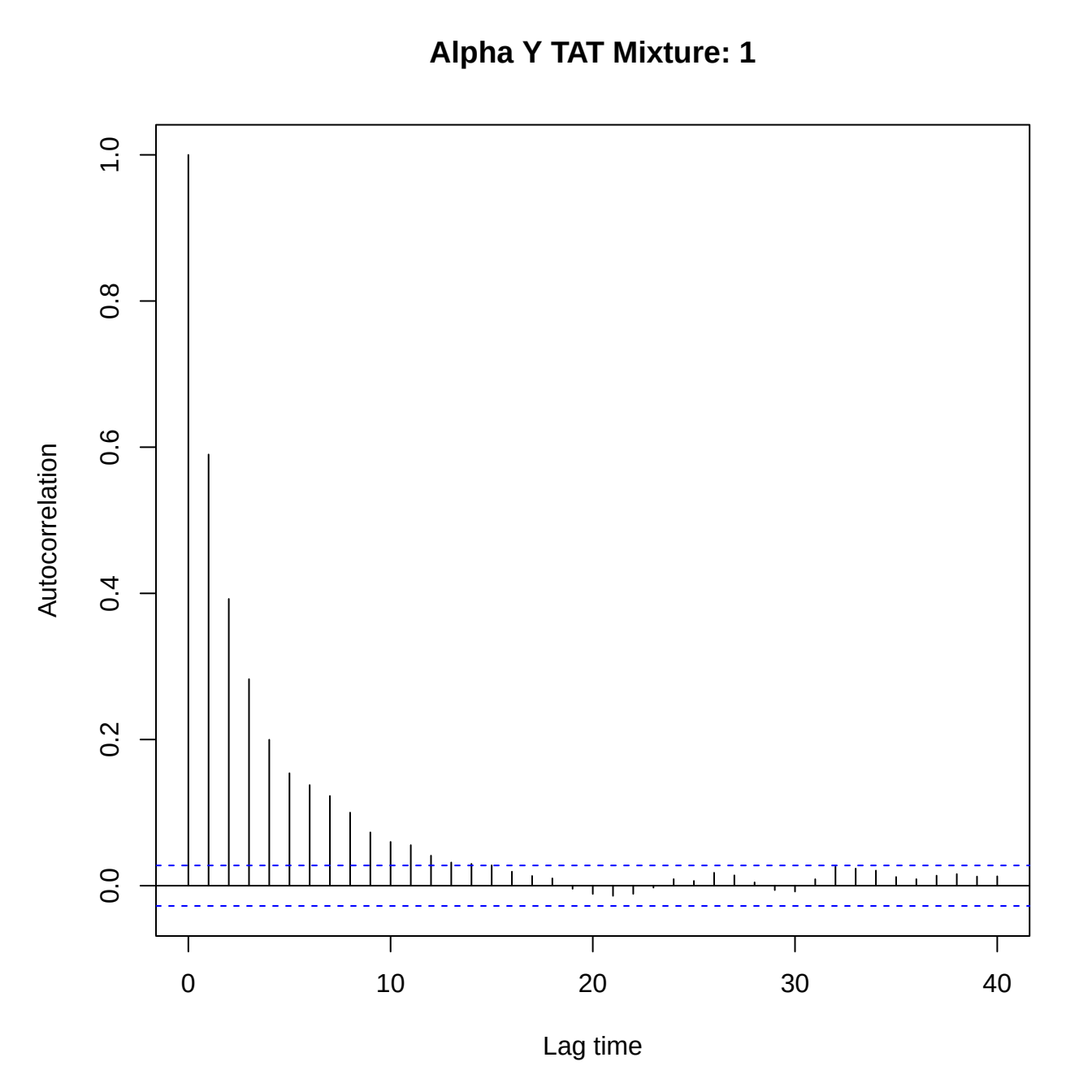
Lag time


Alpha Y TAT Mixture: 1
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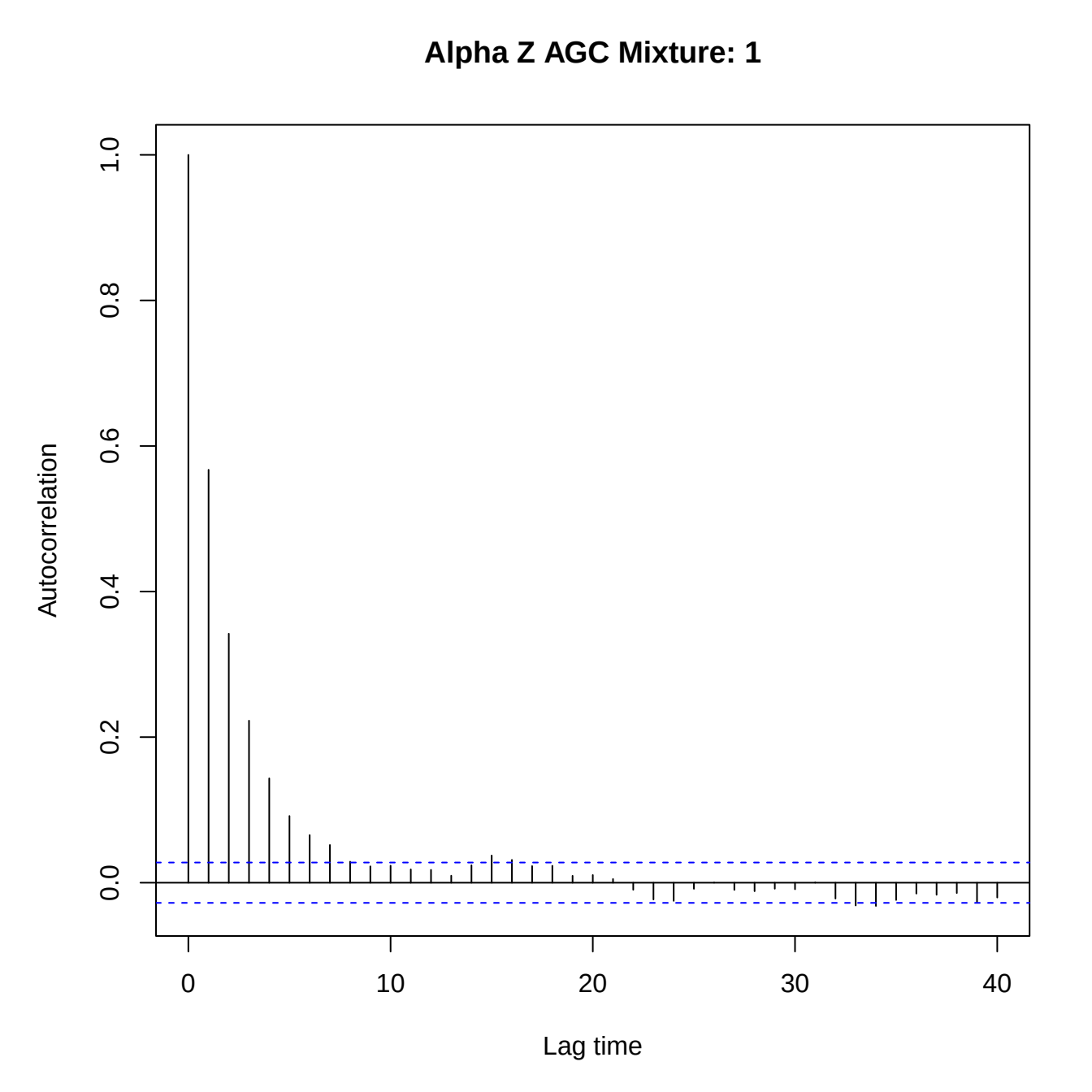
Lag time


Alpha Z AGC Mixture: 1
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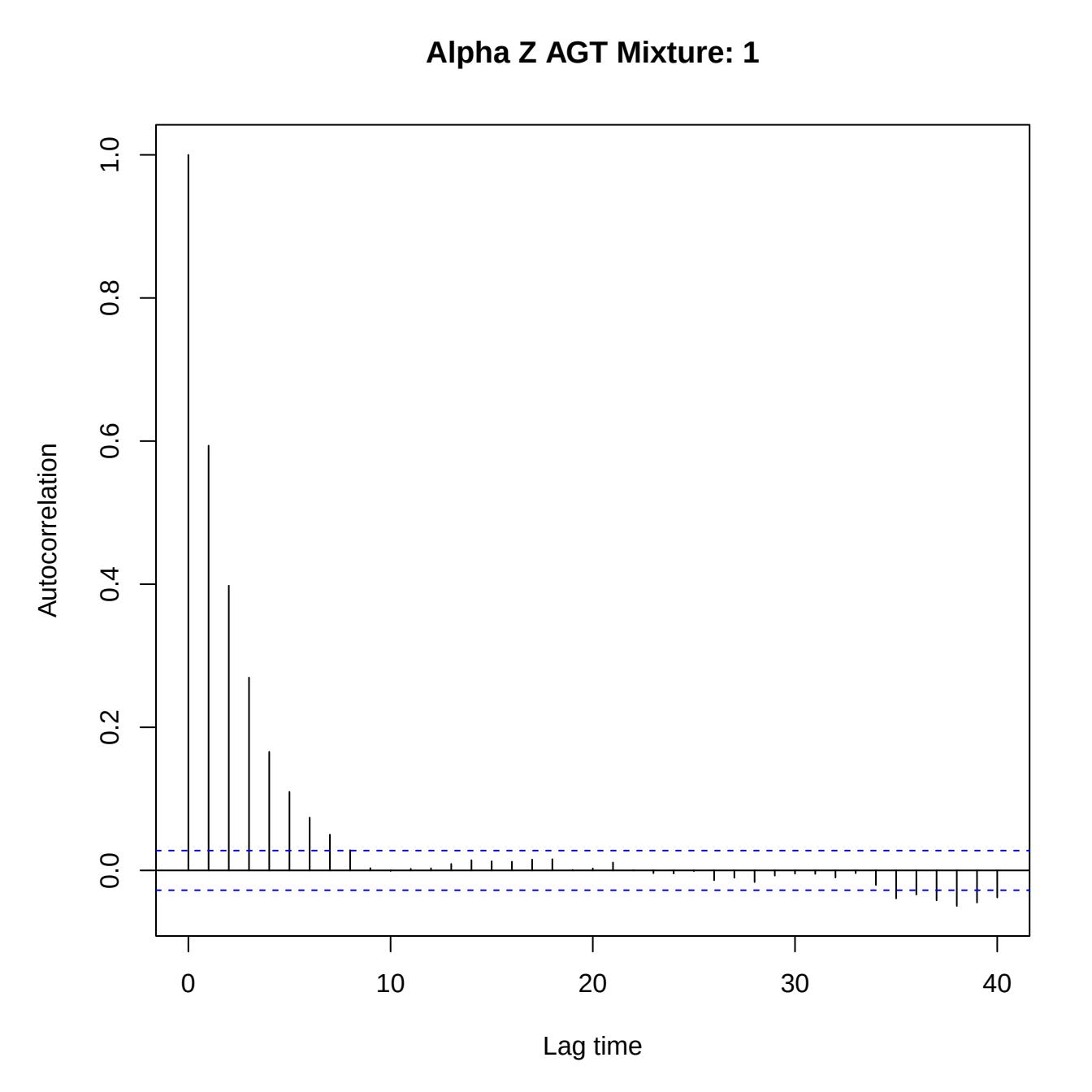
Lag time


Alpha Z AGT Mixture: 1
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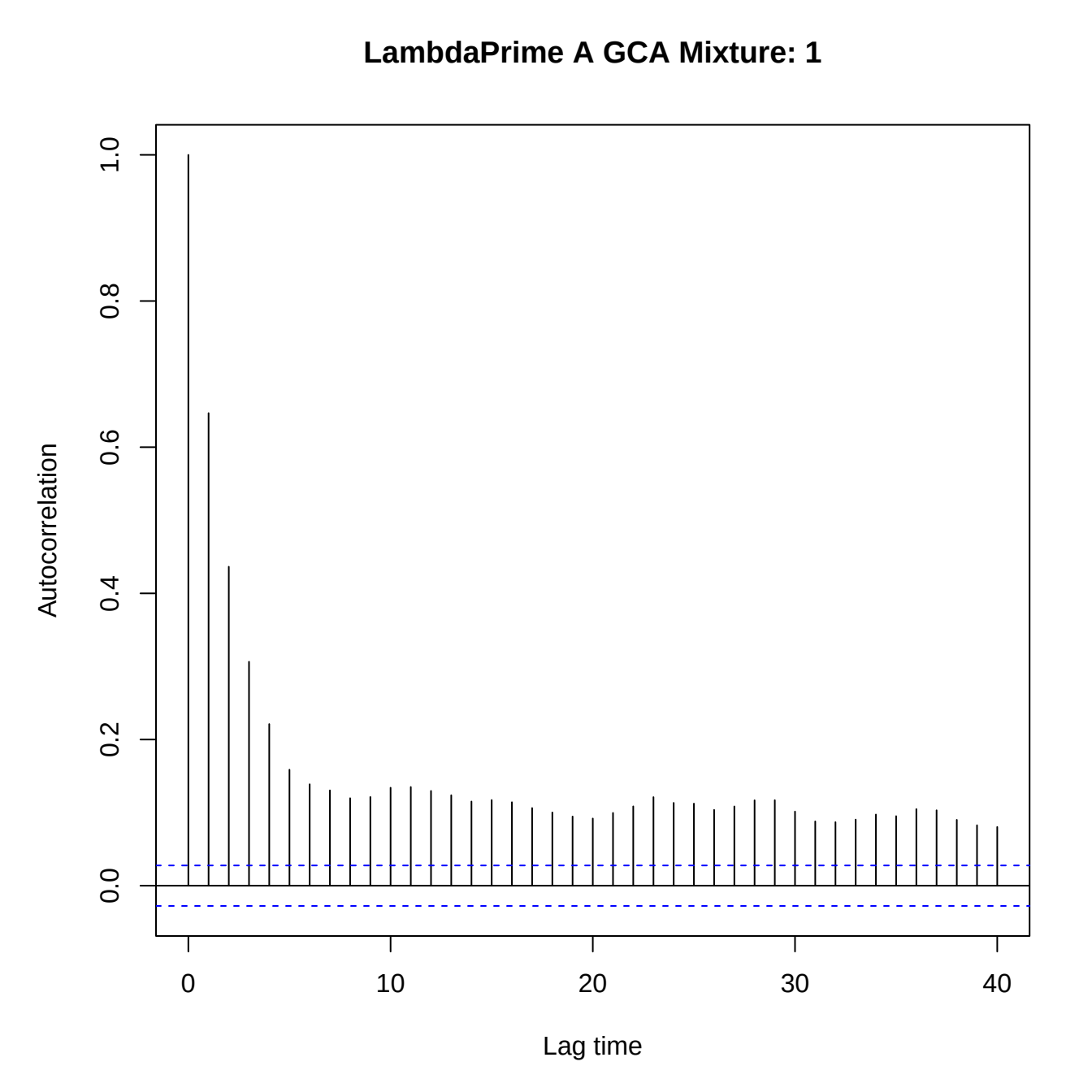
LambdaPrime A GCA Mixture: 1
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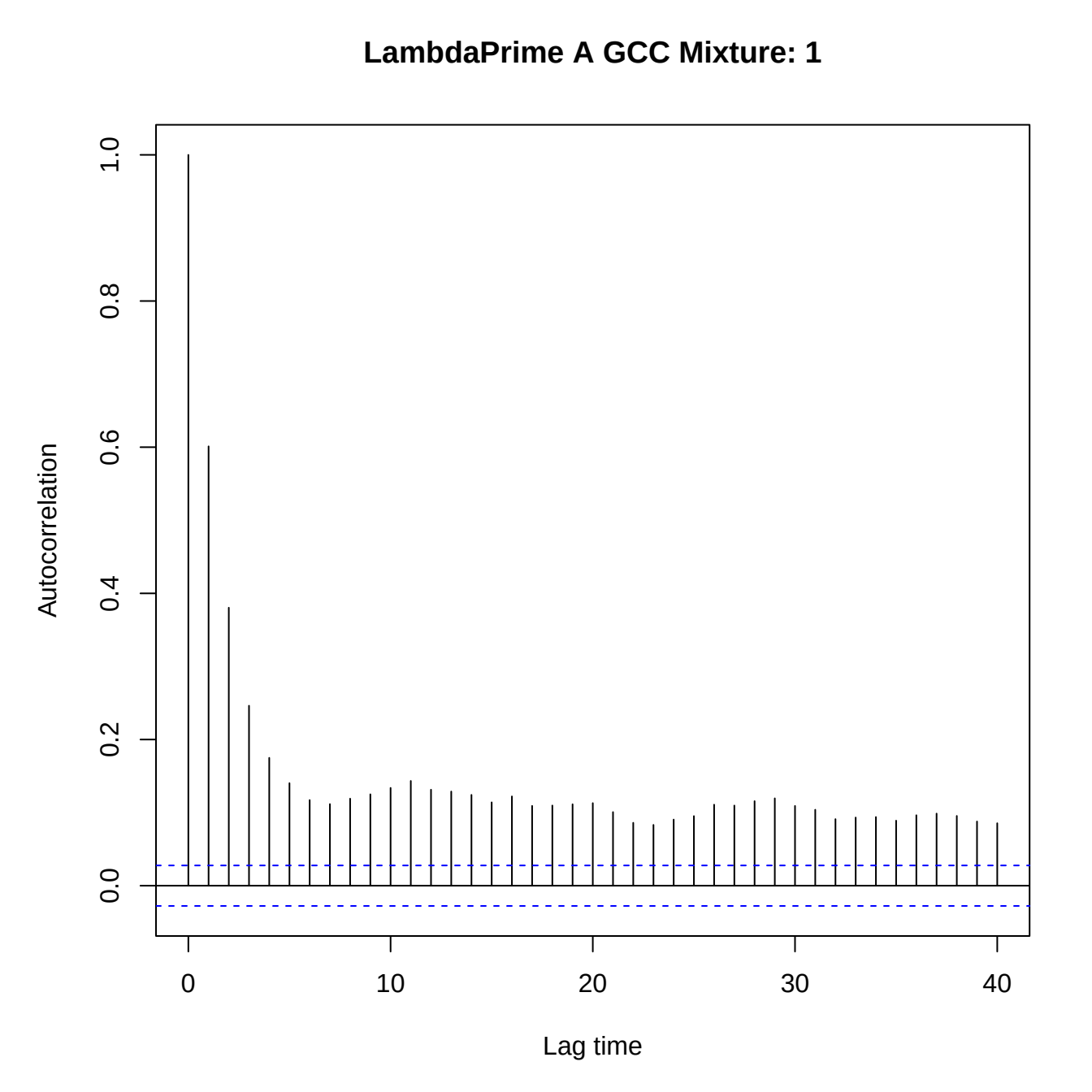
Lag time


LambdaPrime A GCC Mixture: 1
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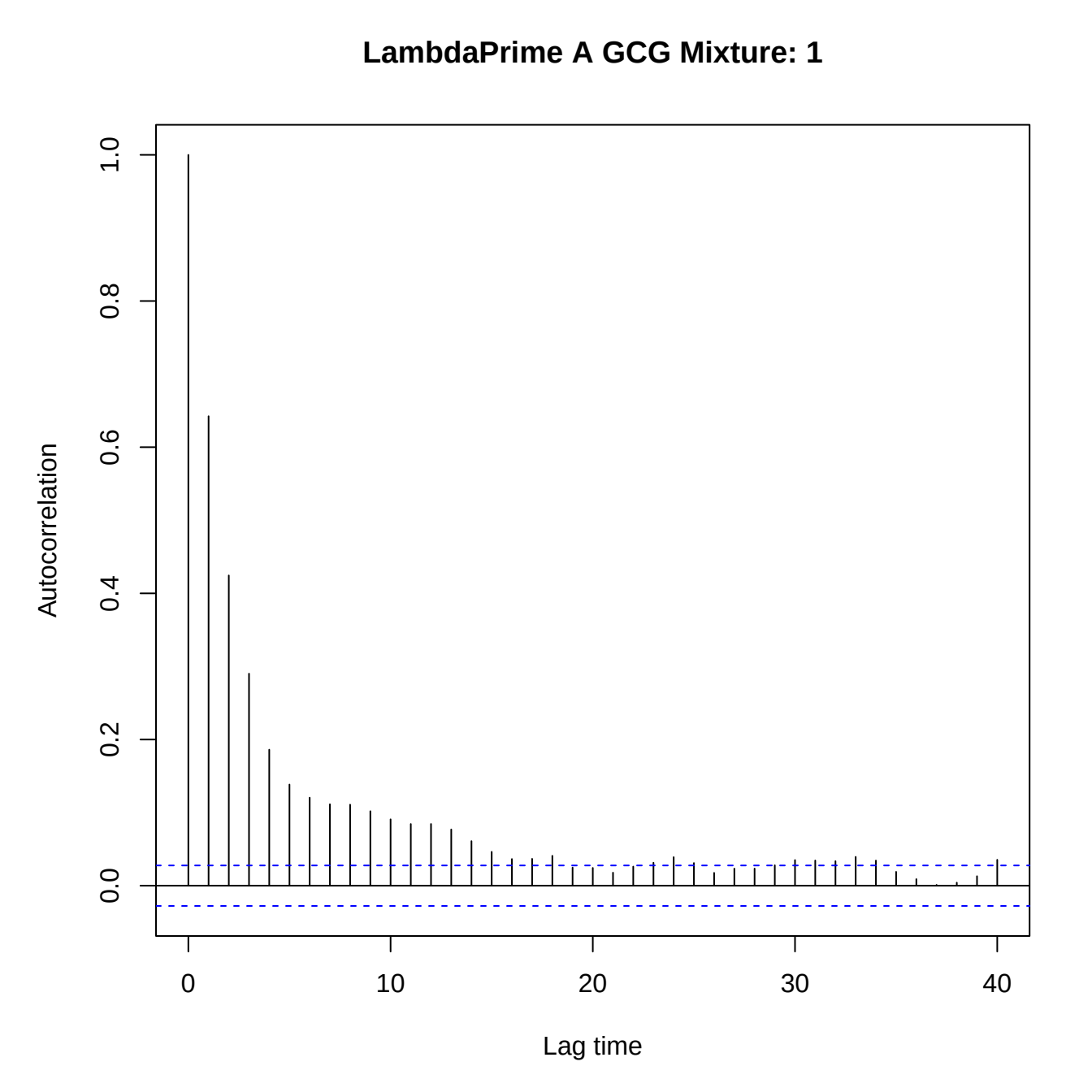
Lag time


LambdaPrime A GCG Mixture: 1
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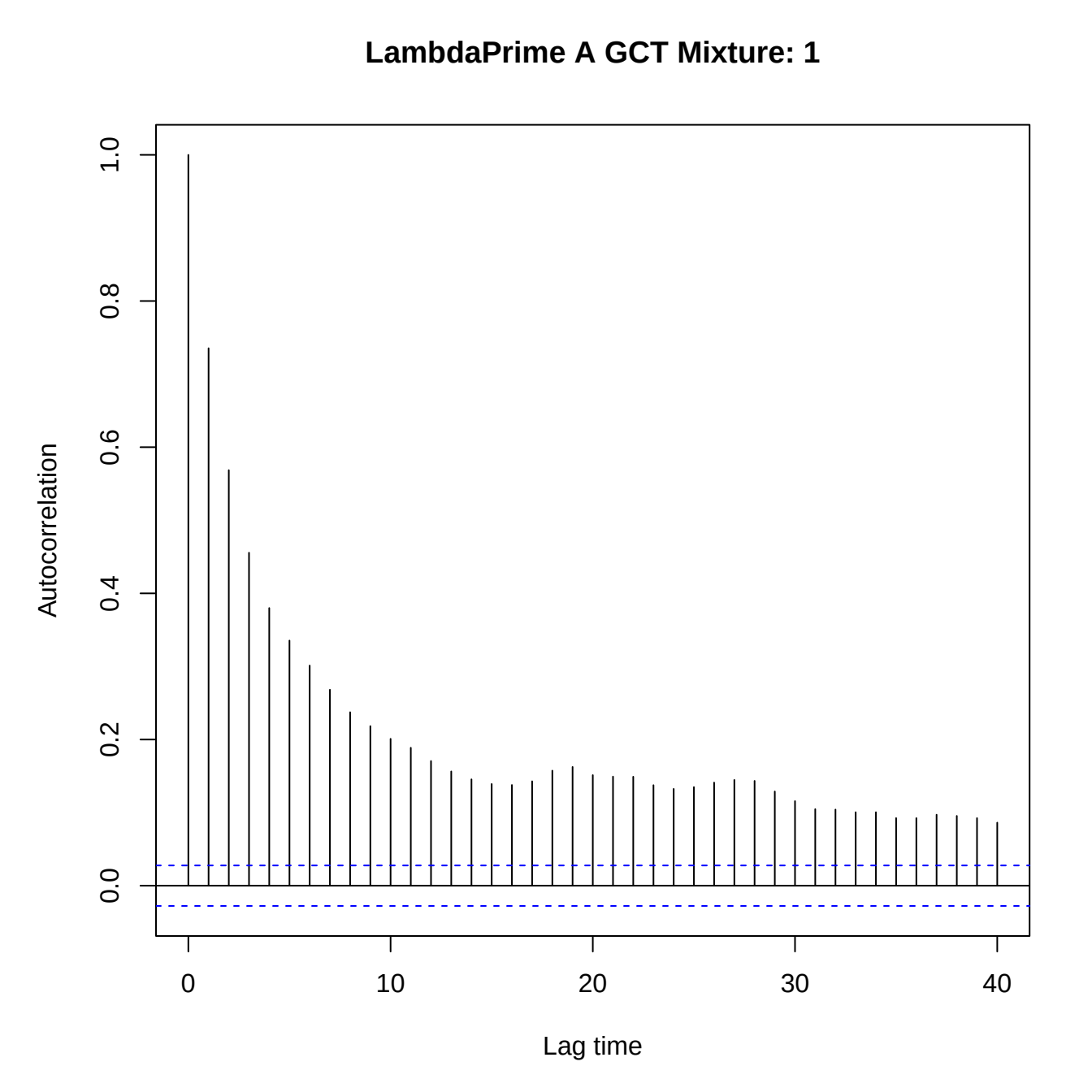
Lag time


LambdaPrime A GCT Mixture: 1
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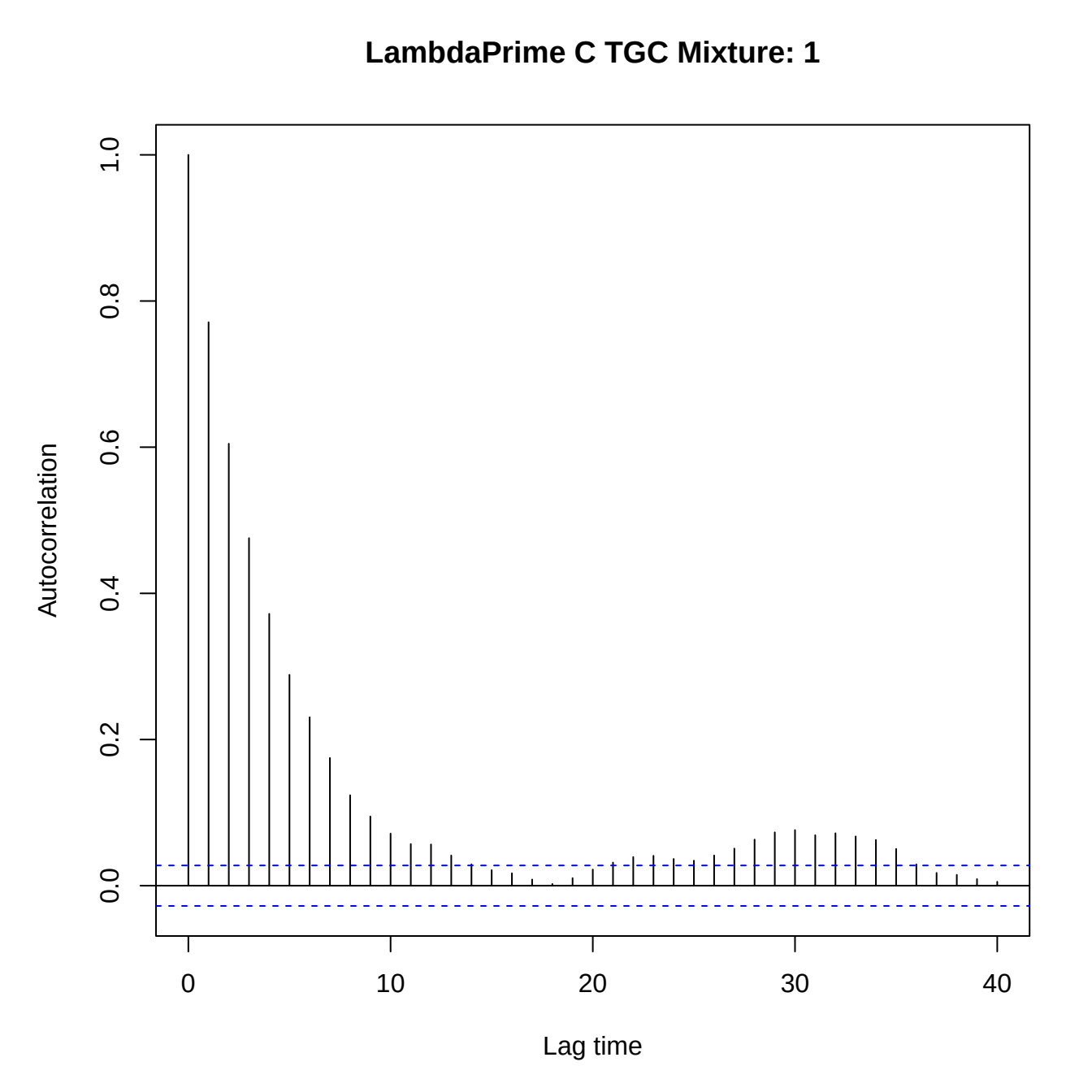
Lag time


LambdaPrime C TGC Mixture: 1
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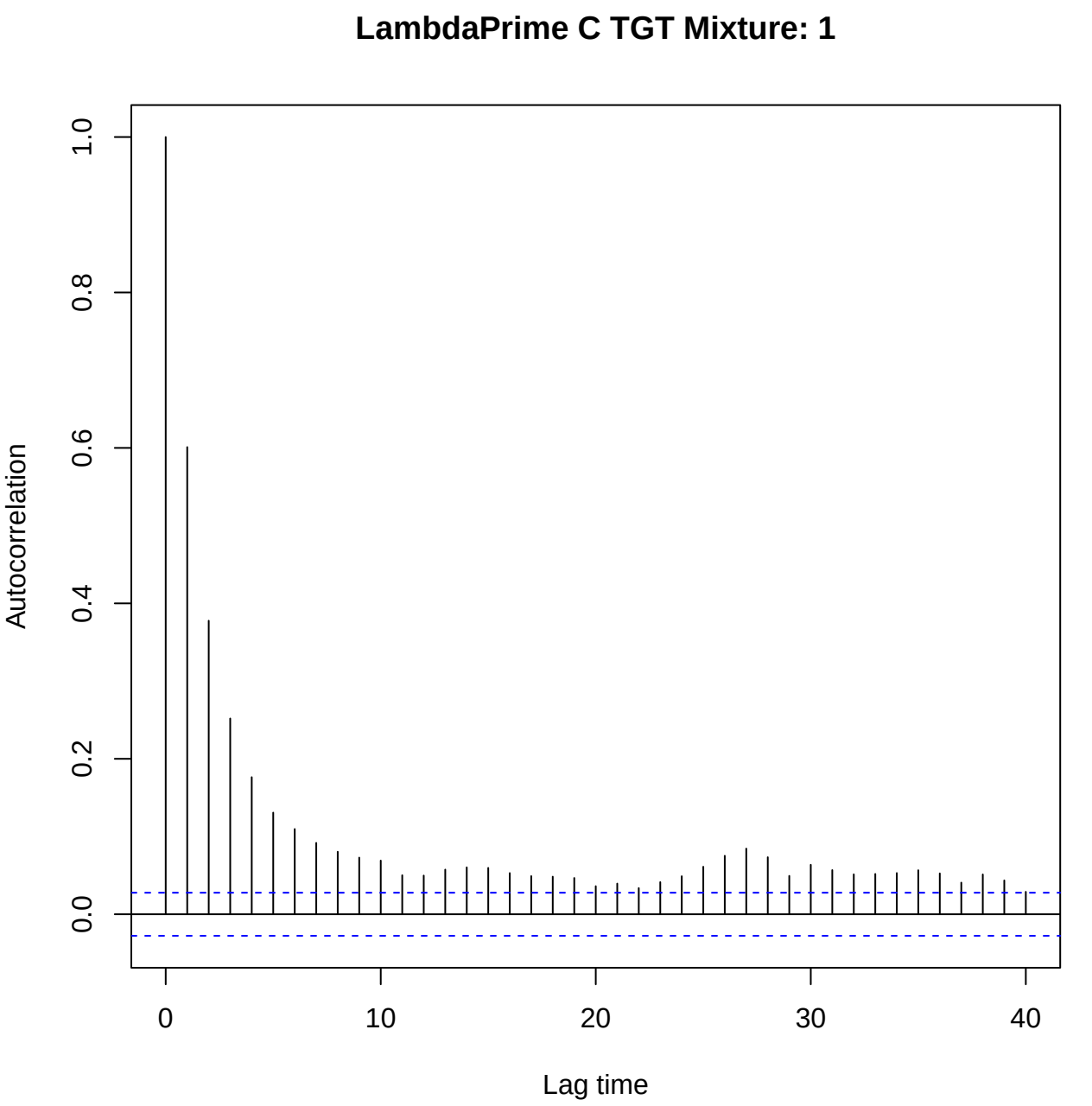
Lag time


LambdaPrime C TGT Mixture: 1
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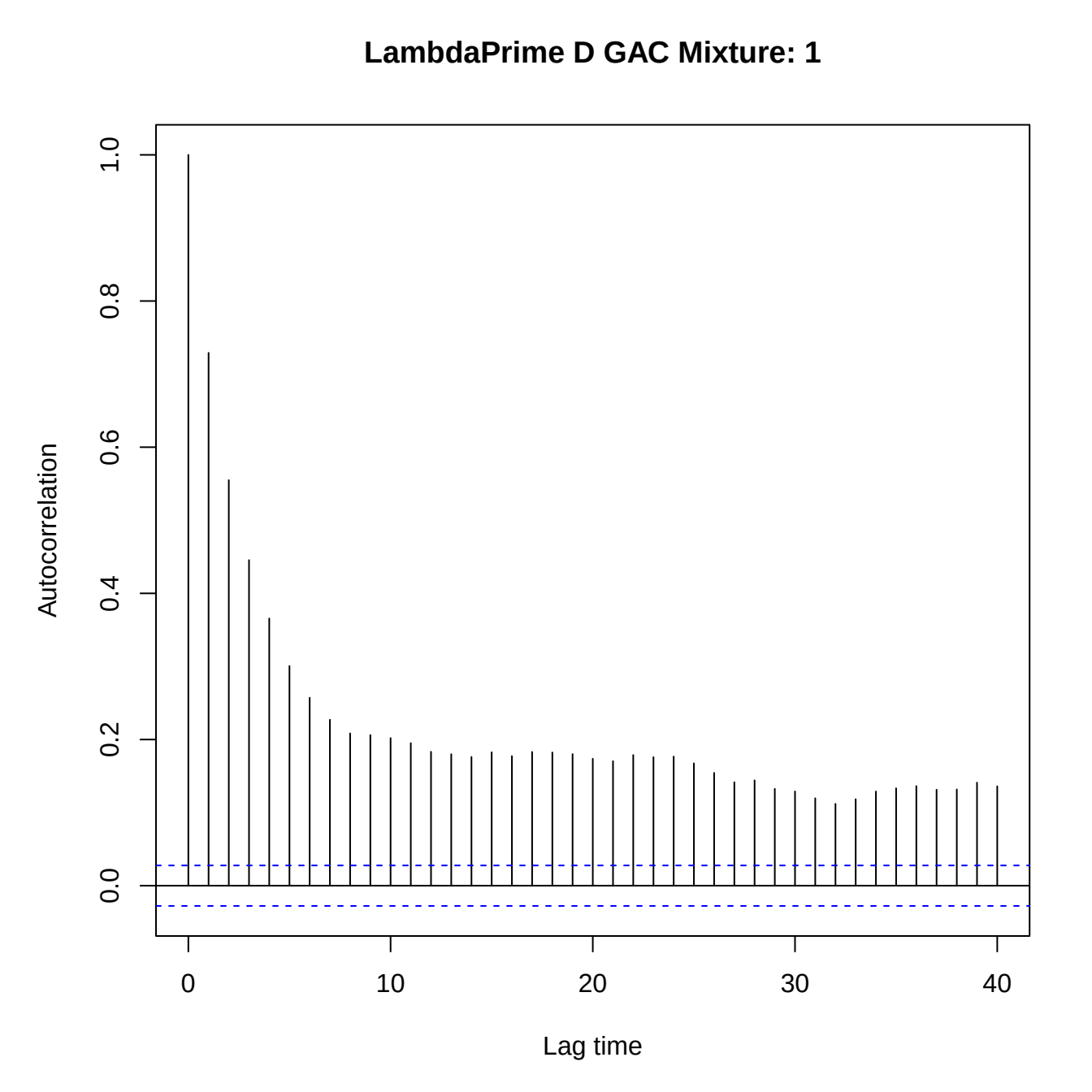
Lag time


LambdaPrime D GAC Mixture: 1
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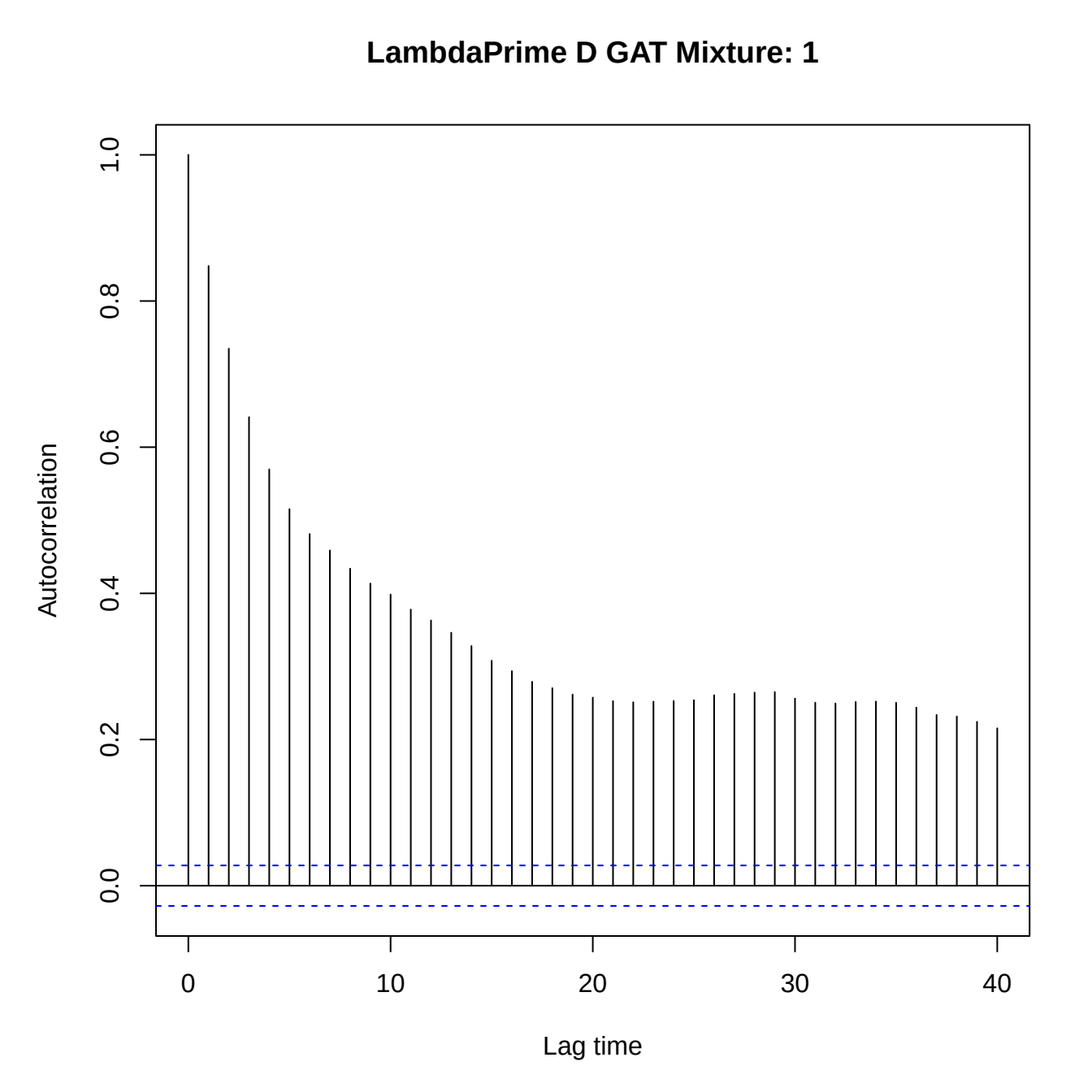
Lag time


LambdaPrime D GAT Mixture: 1
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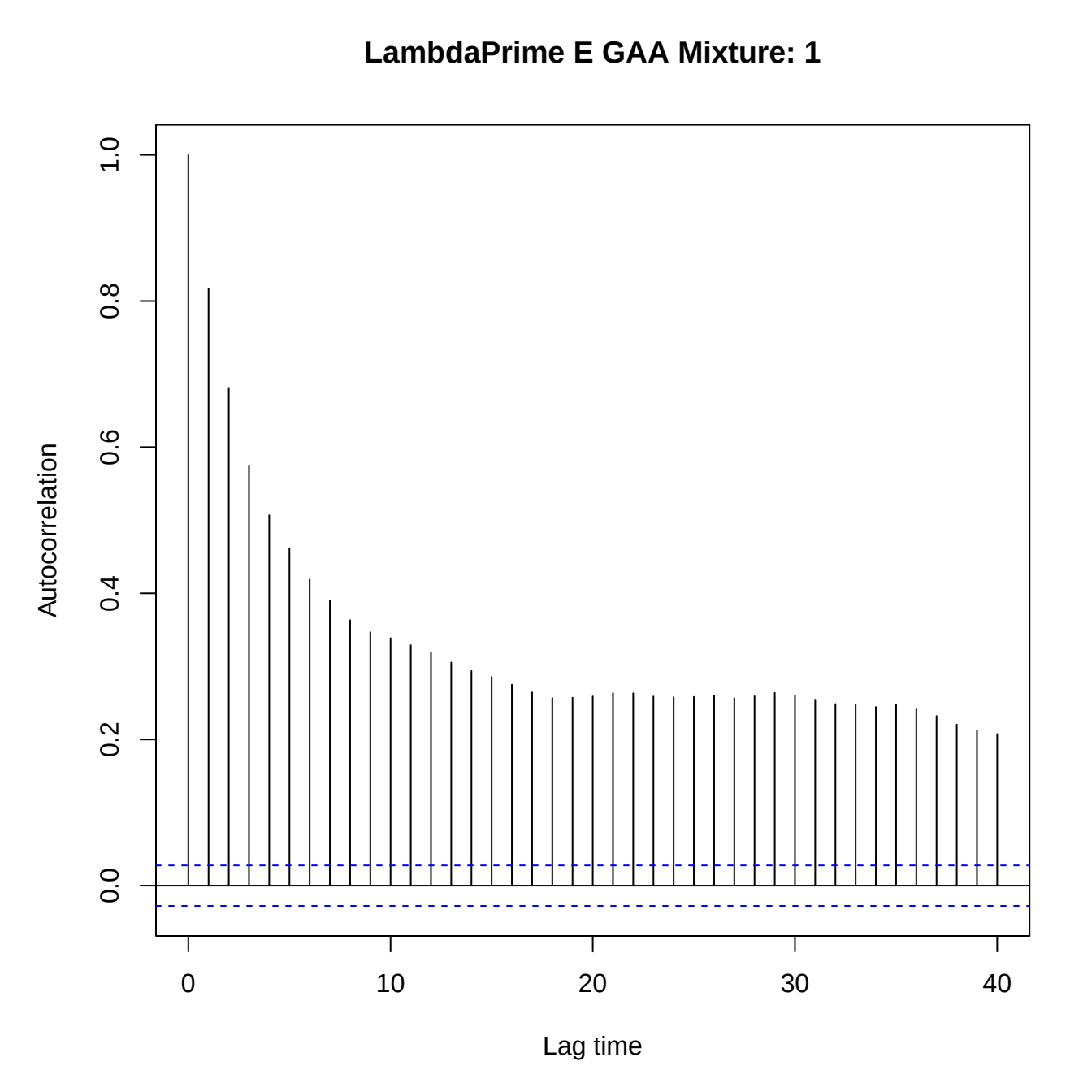
Lag time


LambdaPrime E GAA Mixture: 1
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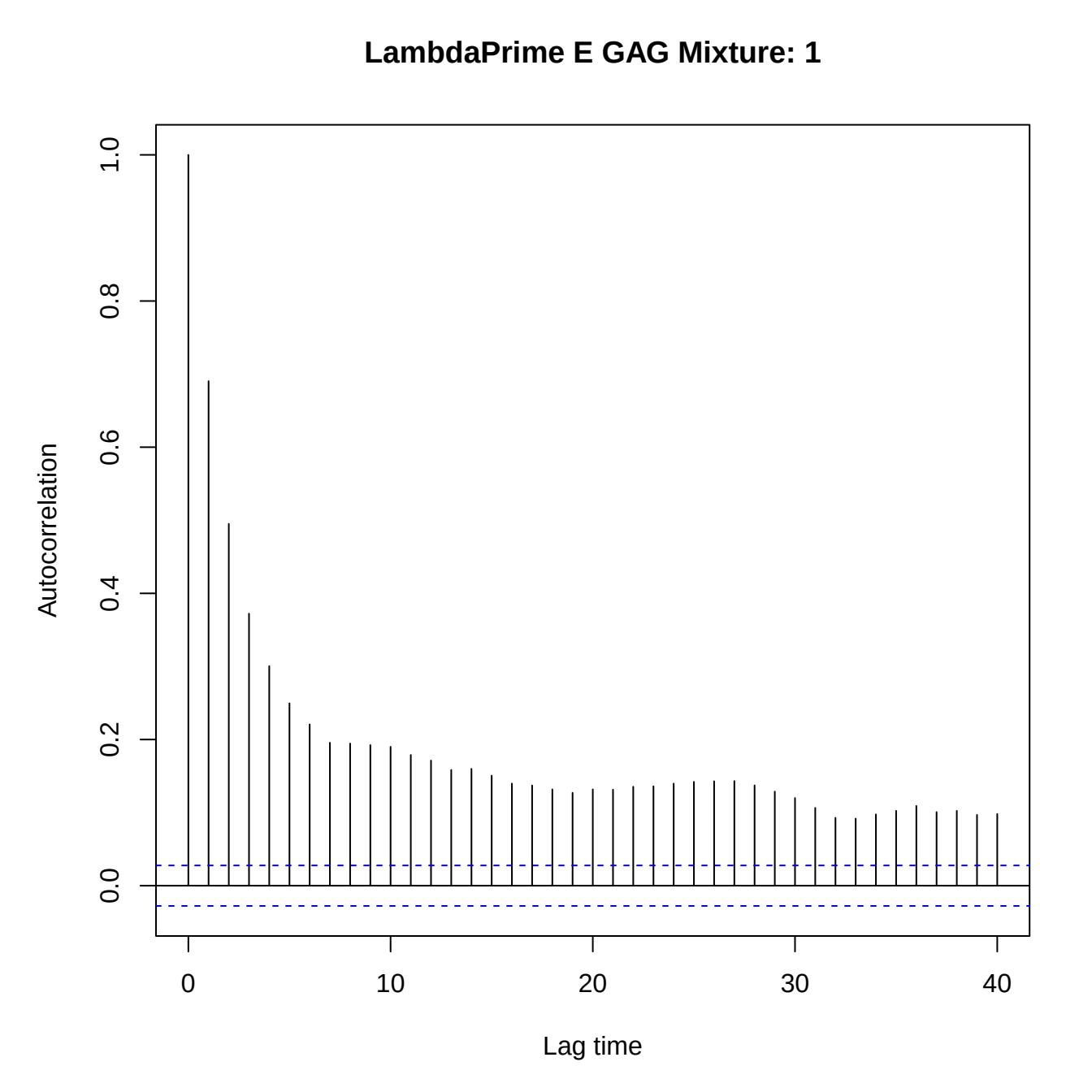
Lag time


LambdaPrime E GAG Mixture: 1
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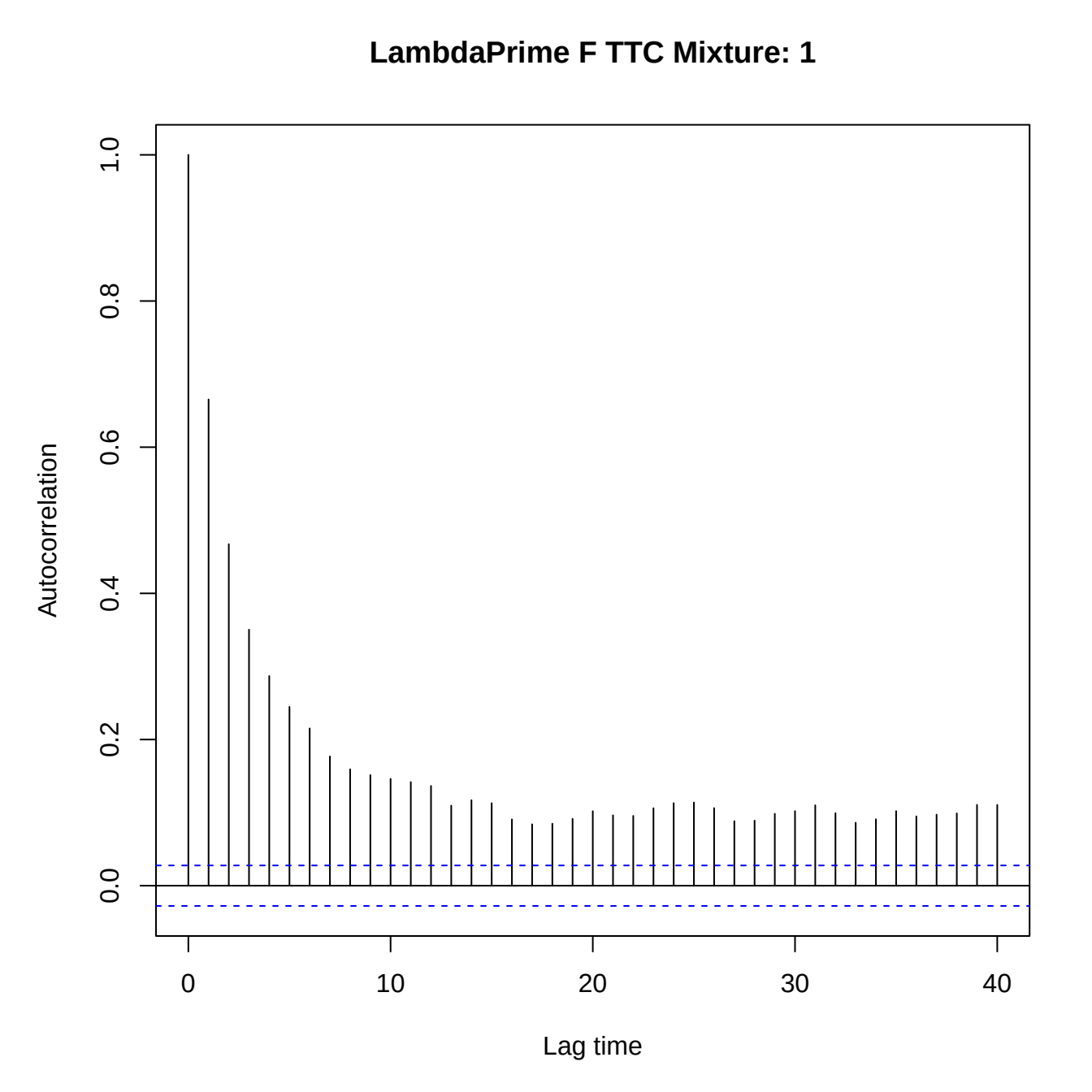
Lag time


LambdaPrime F TTC Mixture: 1
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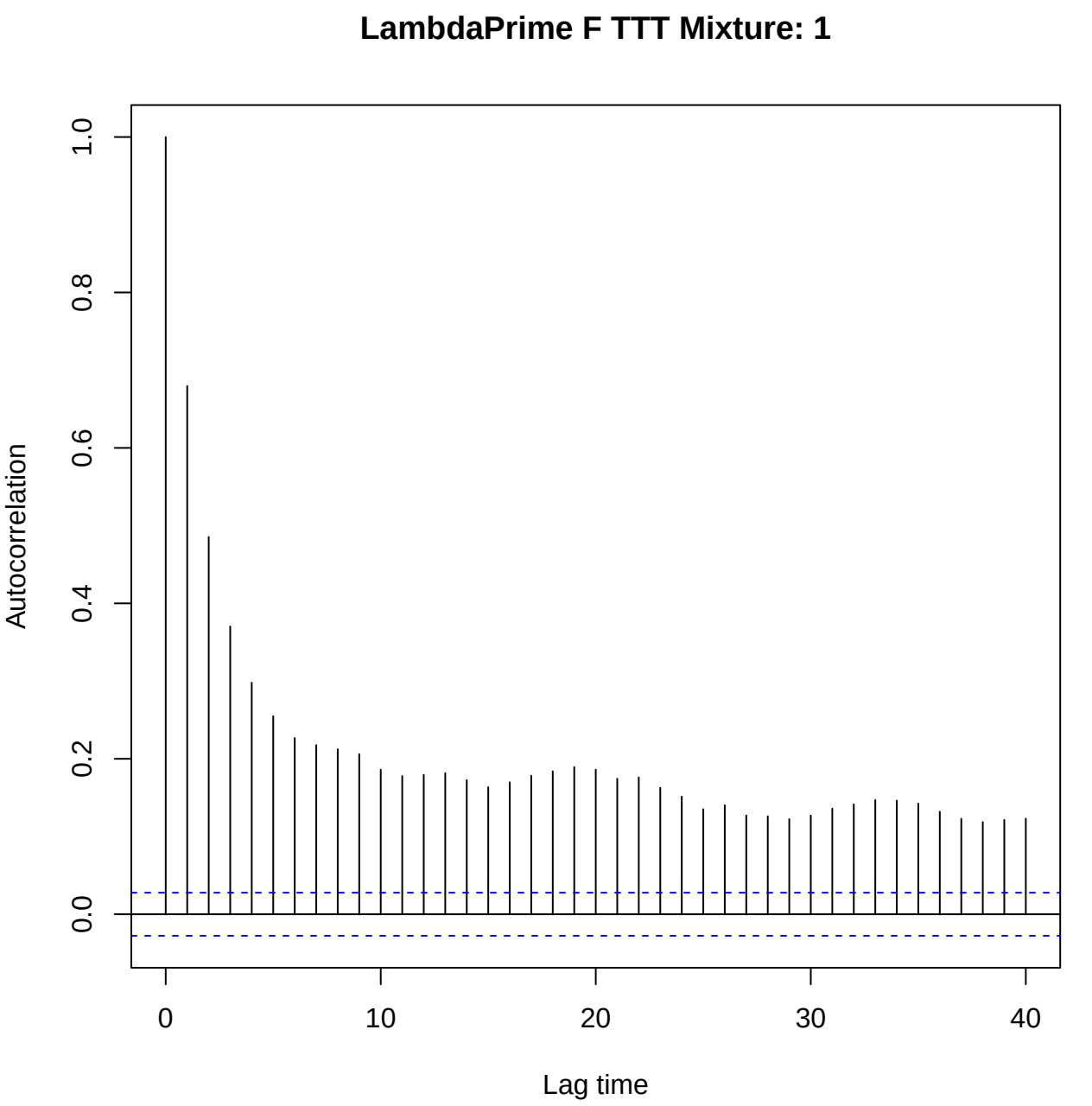
Lag time


LambdaPrime F TTT Mixture: 1
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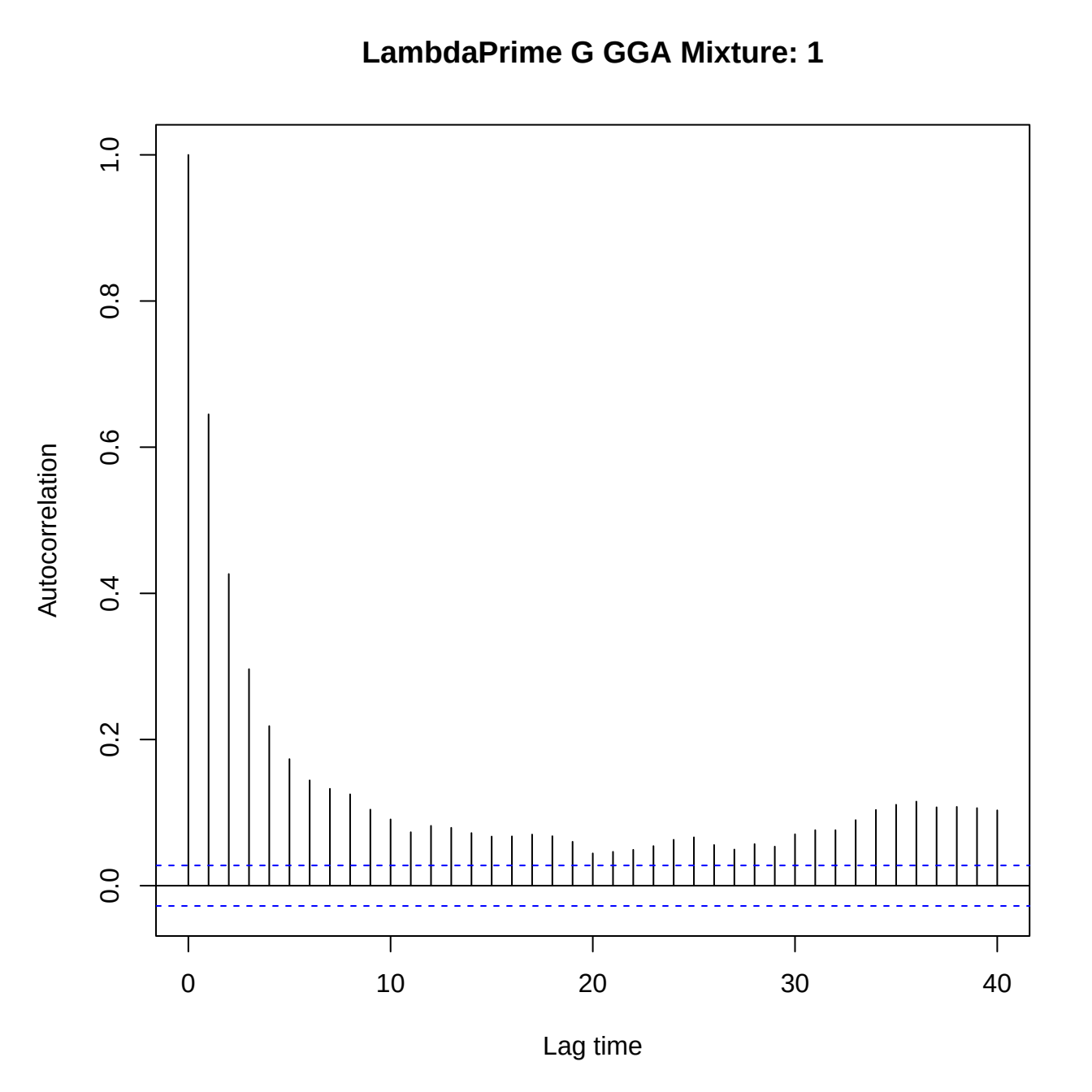
Lag time


LambdaPrime G GGA Mixture: 1
Autocorrelation
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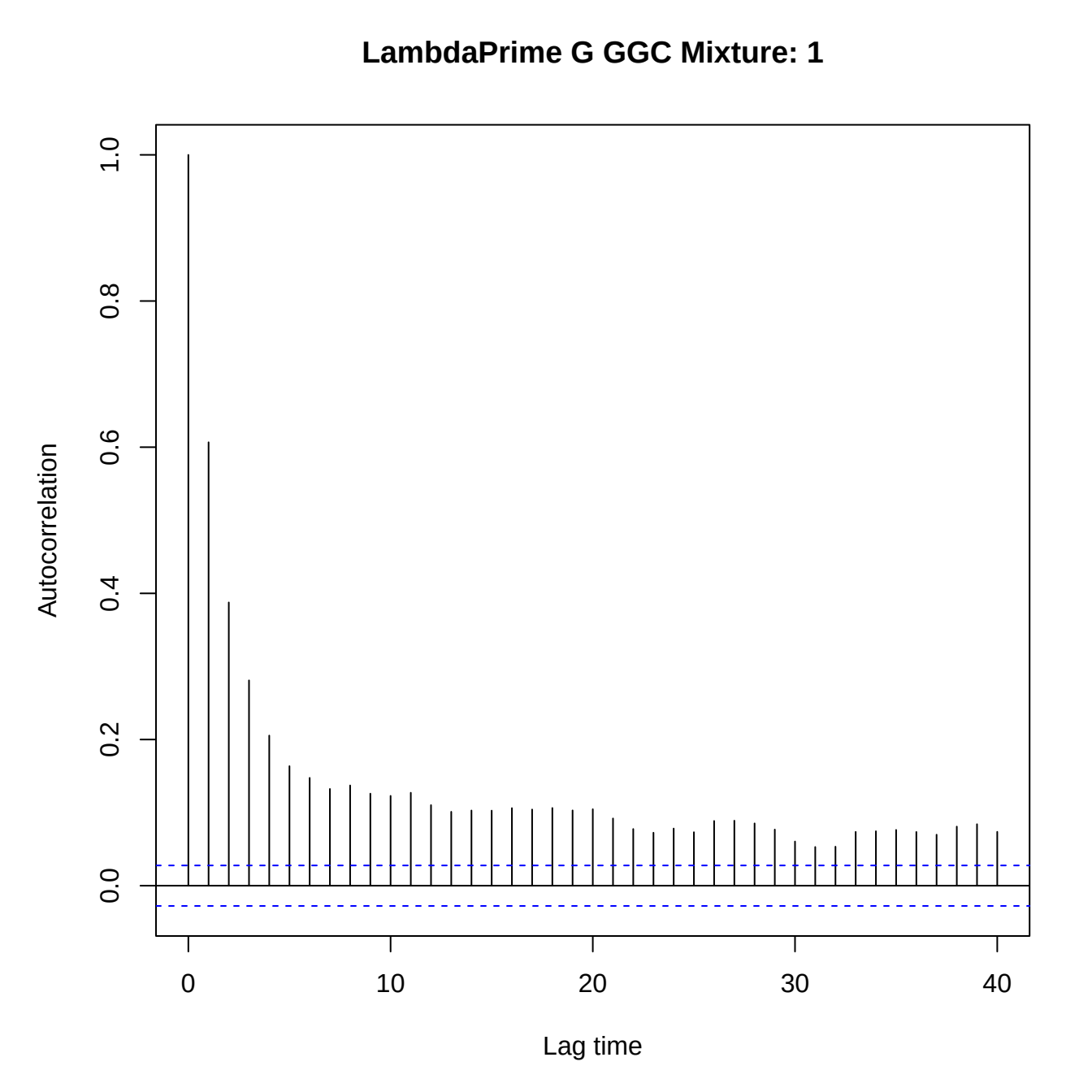
Lag time


LambdaPrime G GGC Mixture: 1
Autocorrelation
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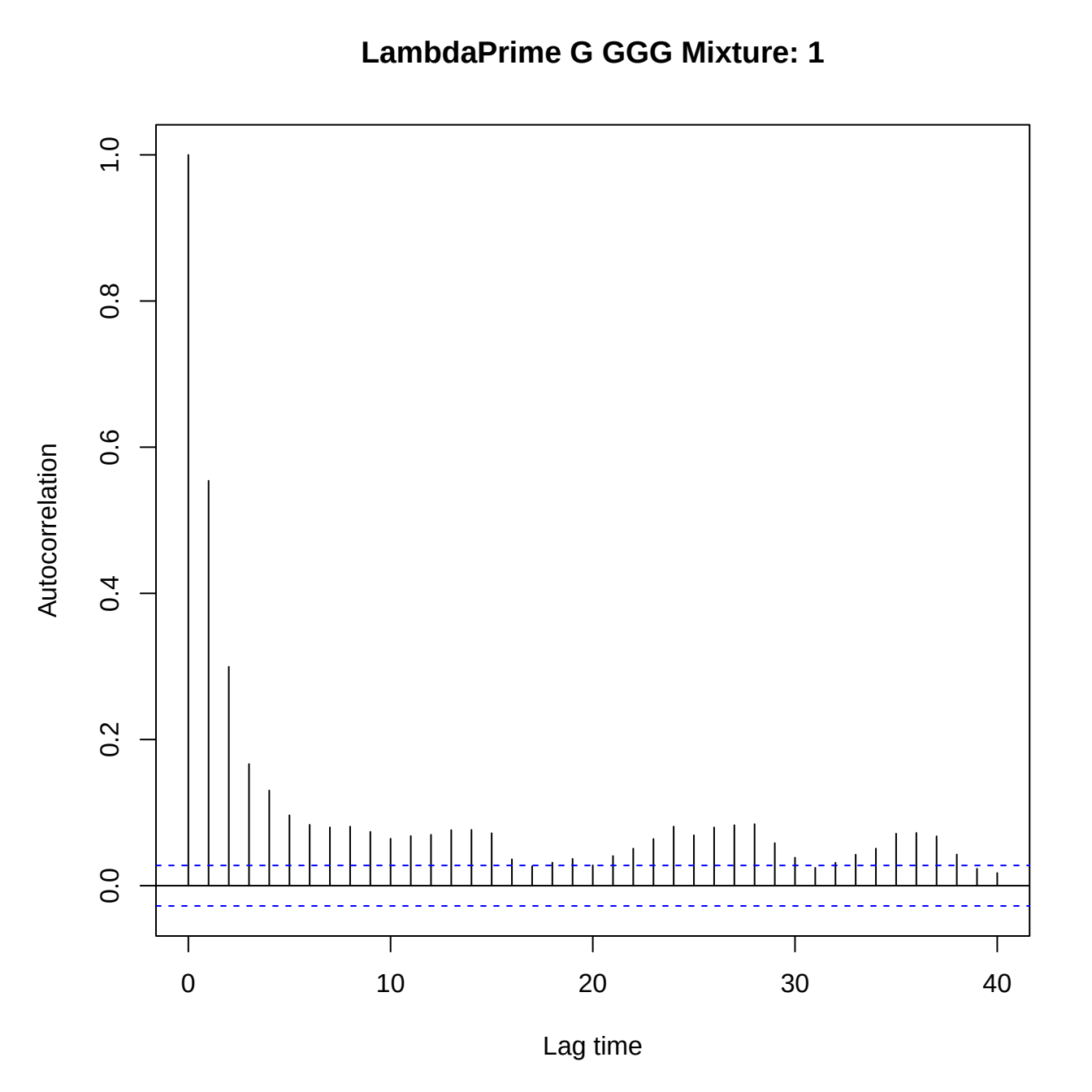
Lag time


LambdaPrime G GGG Mixture: 1
Autocorrelation
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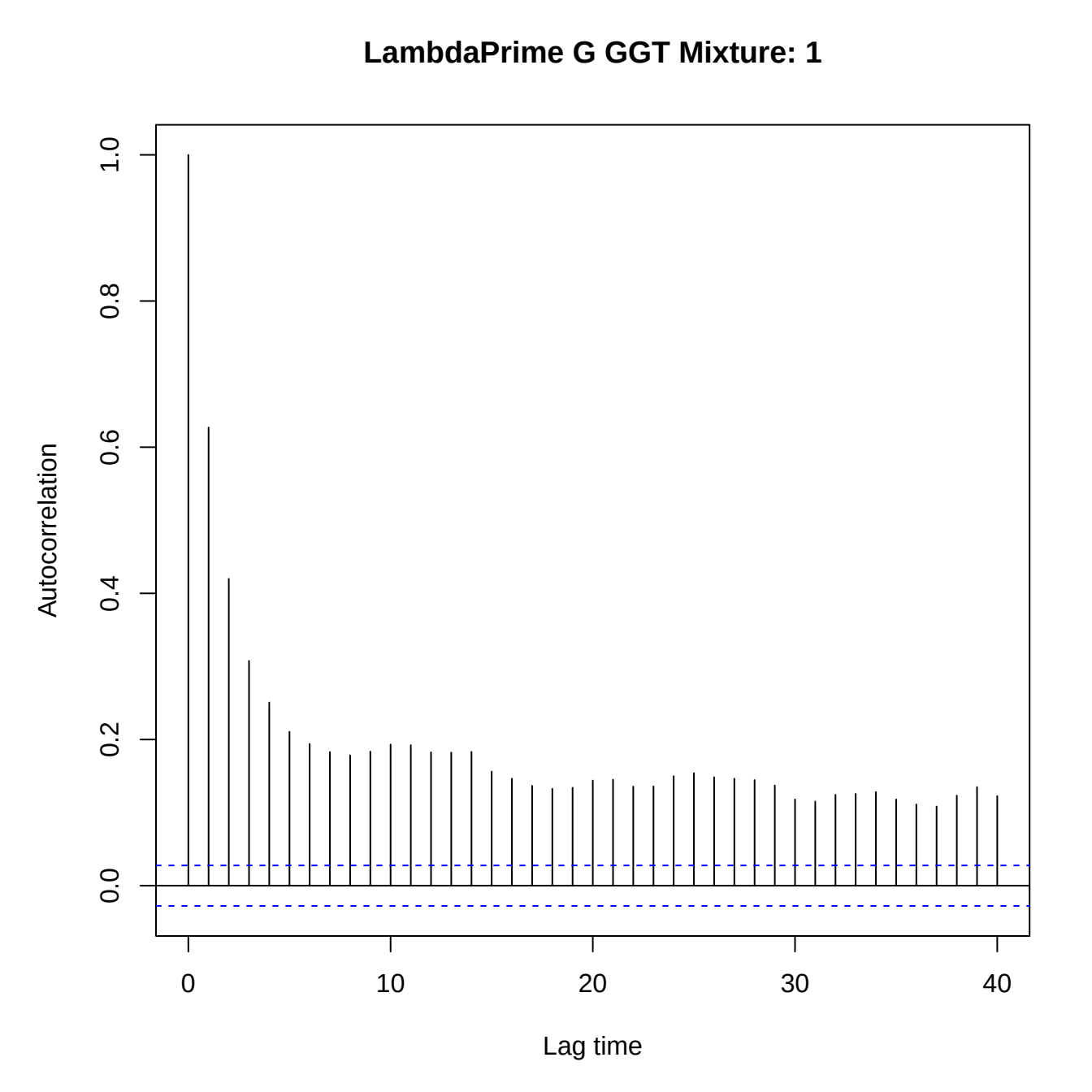
Lag time


LambdaPrime G GGT Mixture: 1
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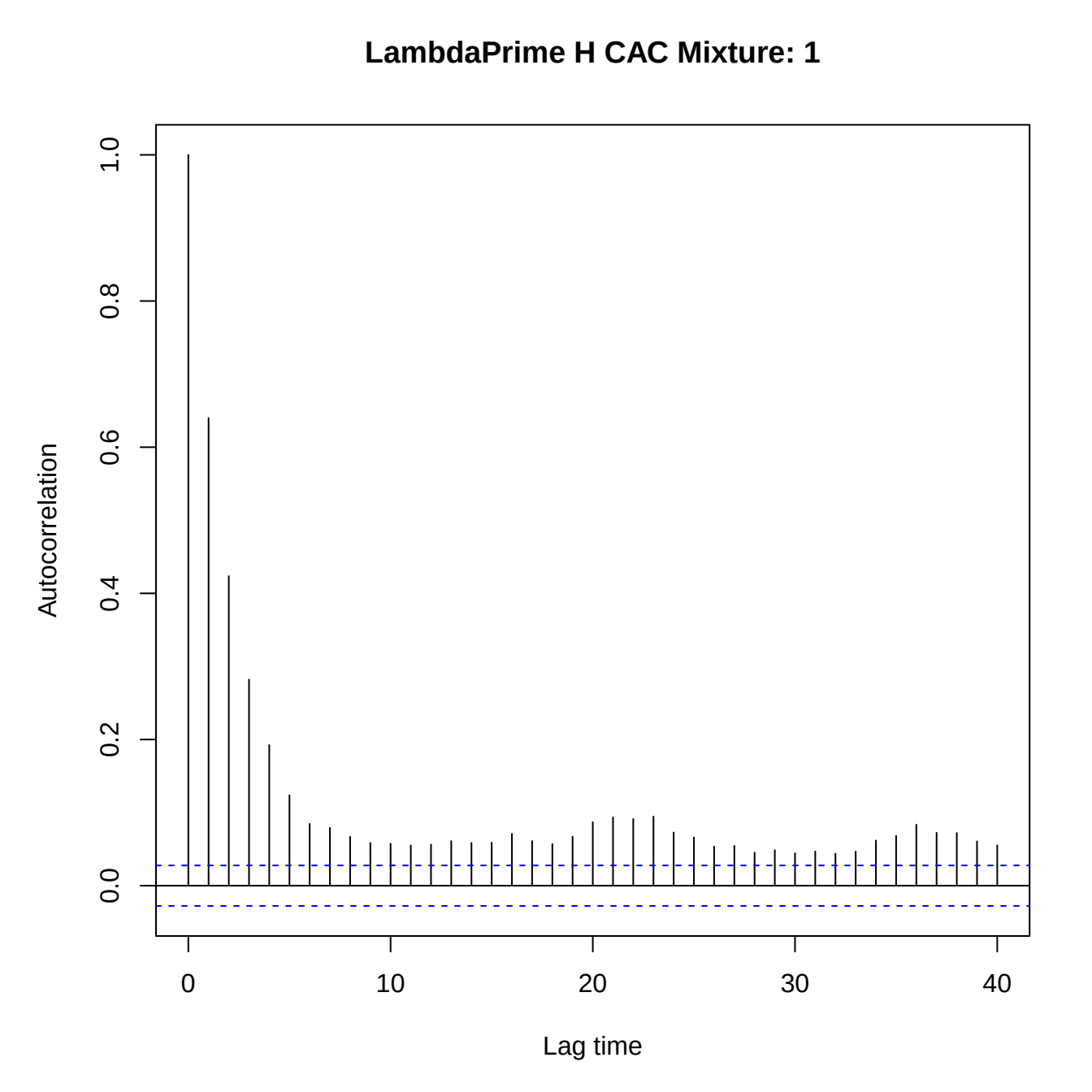
Lag time


LambdaPrime H CAC Mixture: 1
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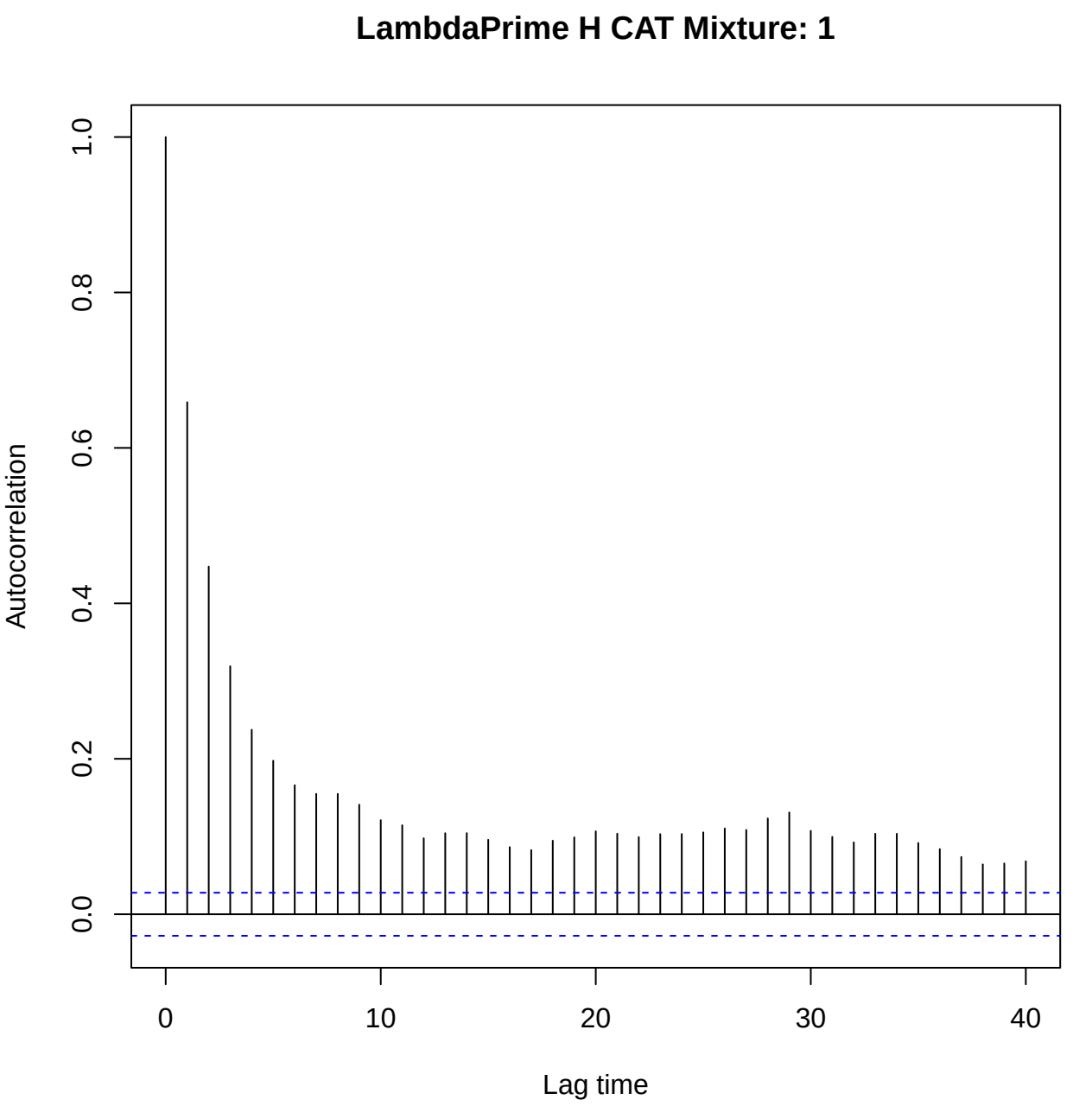
Lag time


LambdaPrime H CAT Mixture: 1
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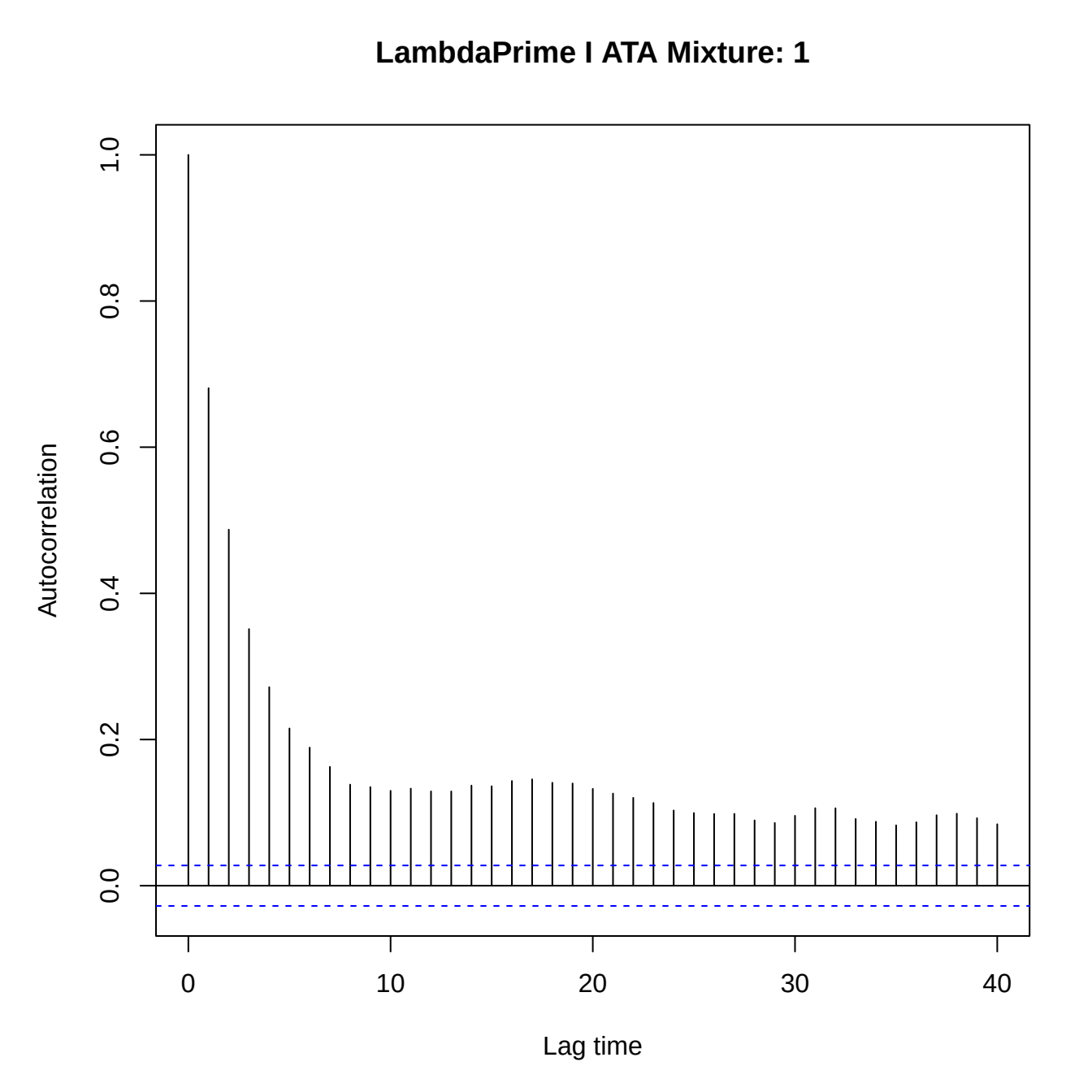
Lag time


LambdaPrime I ATA Mixture: 1
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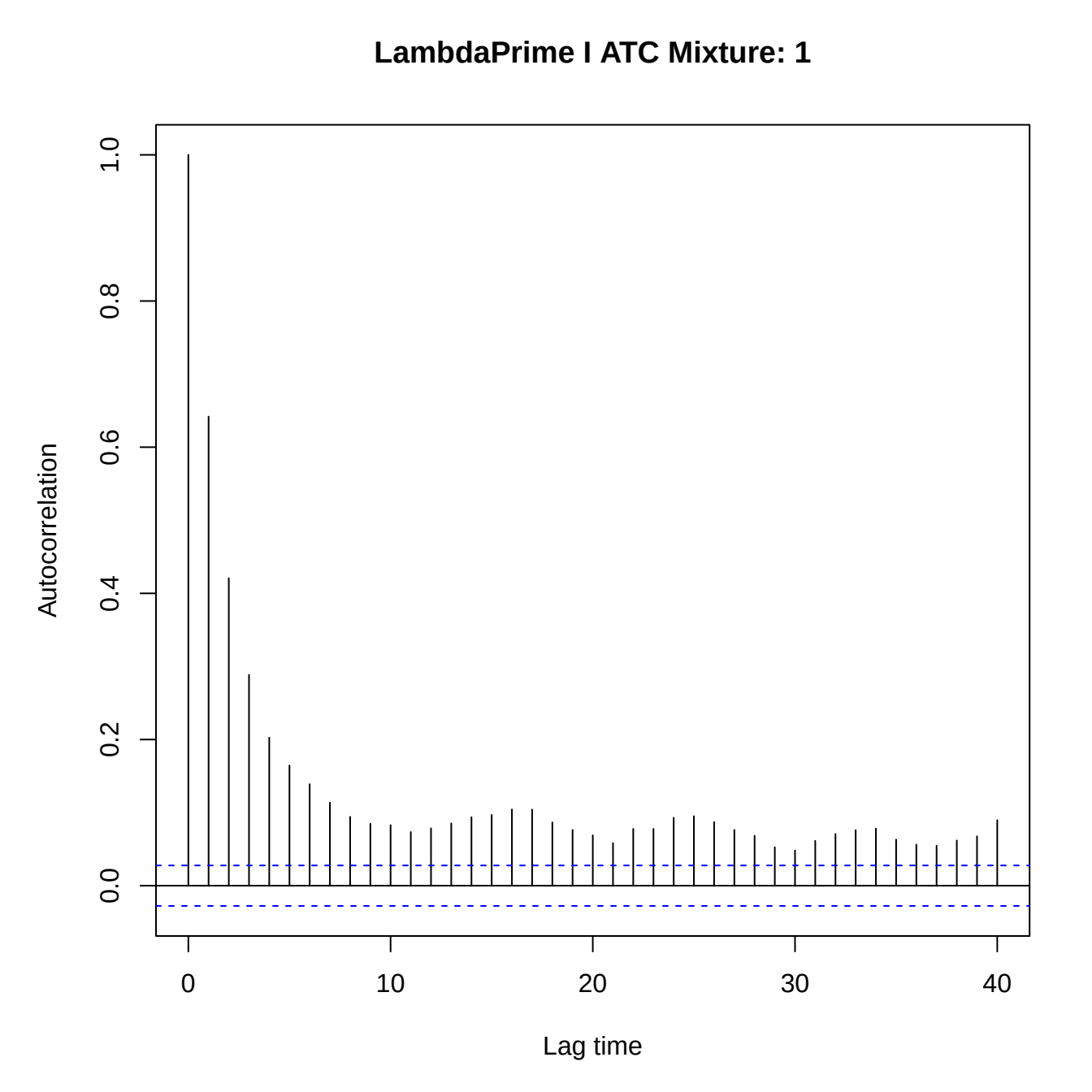
Lag time


LambdaPrime I ATC Mixture: 1
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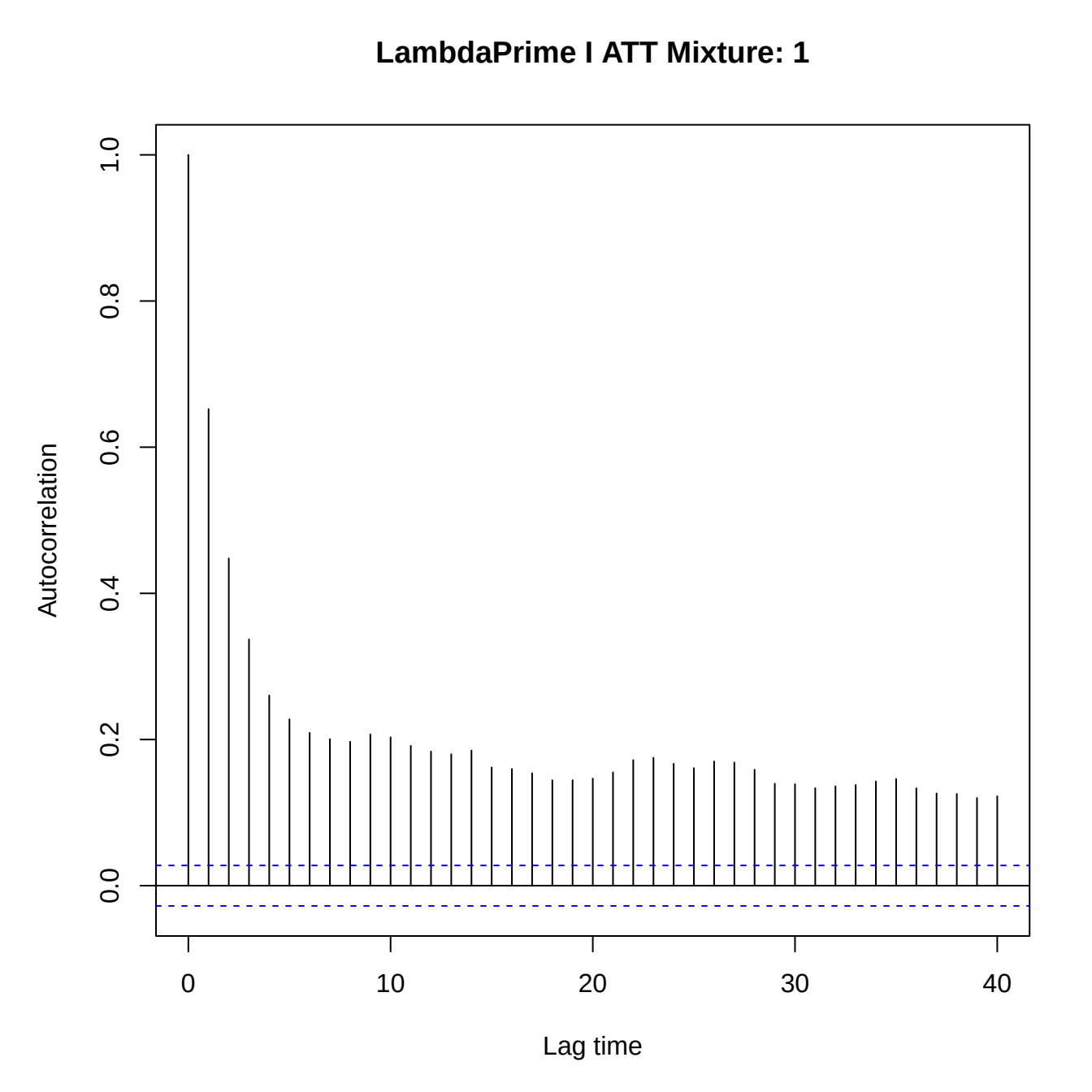
Lag time


LambdaPrime I ATT Mixture: 1
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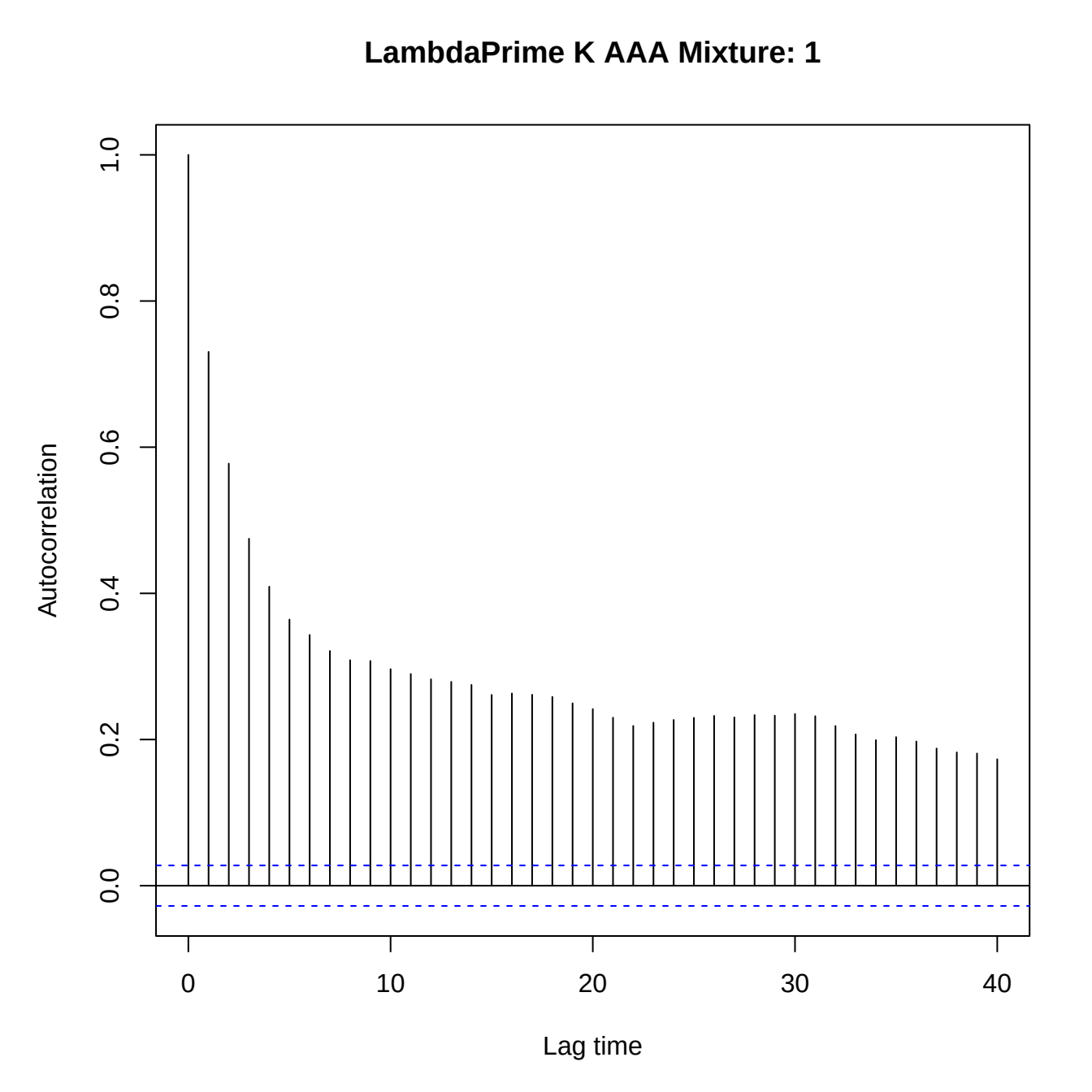
Lag time


LambdaPrime K AAA Mixture: 1
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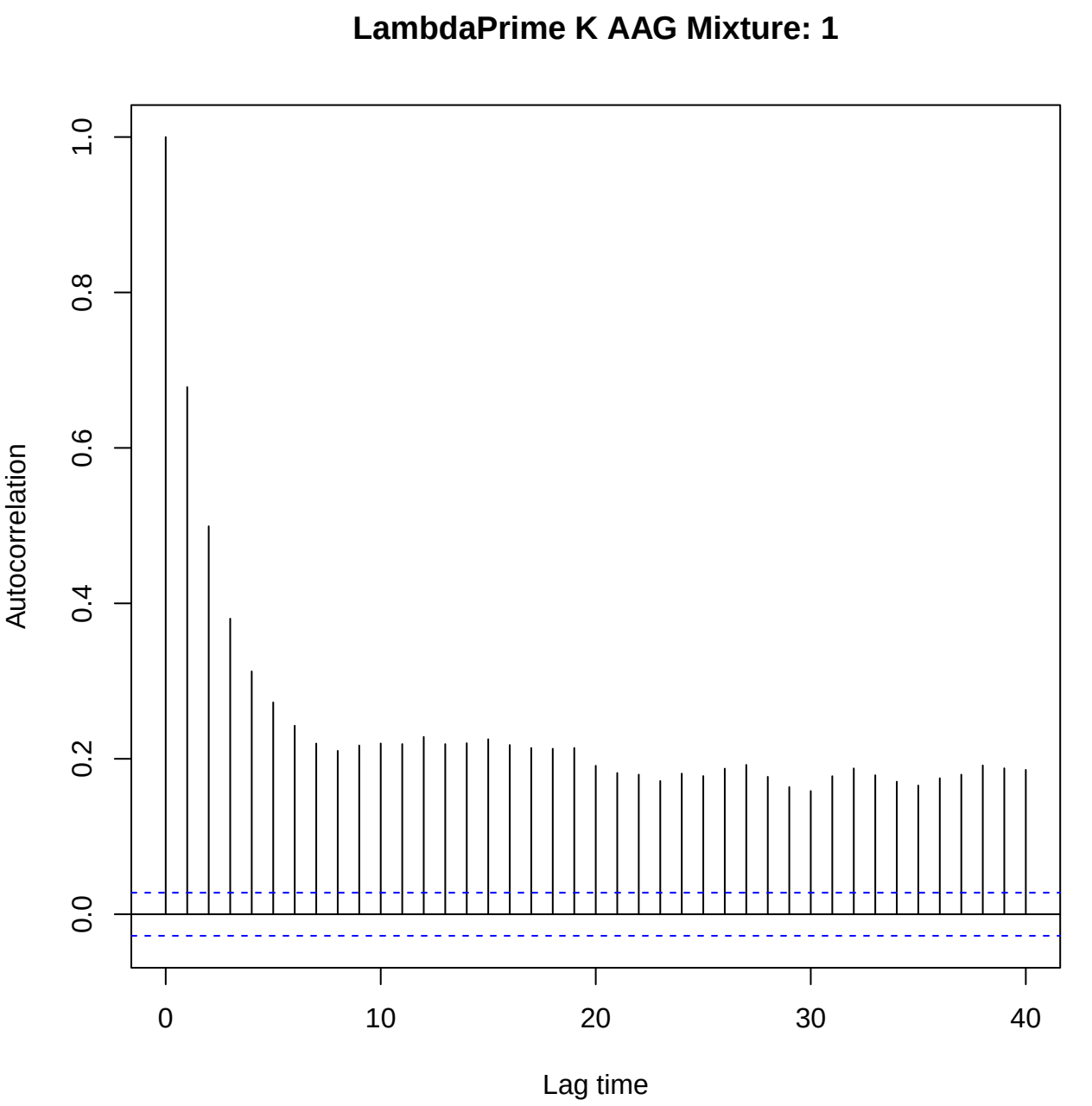
Lag time


LambdaPrime K AAG Mixture: 1
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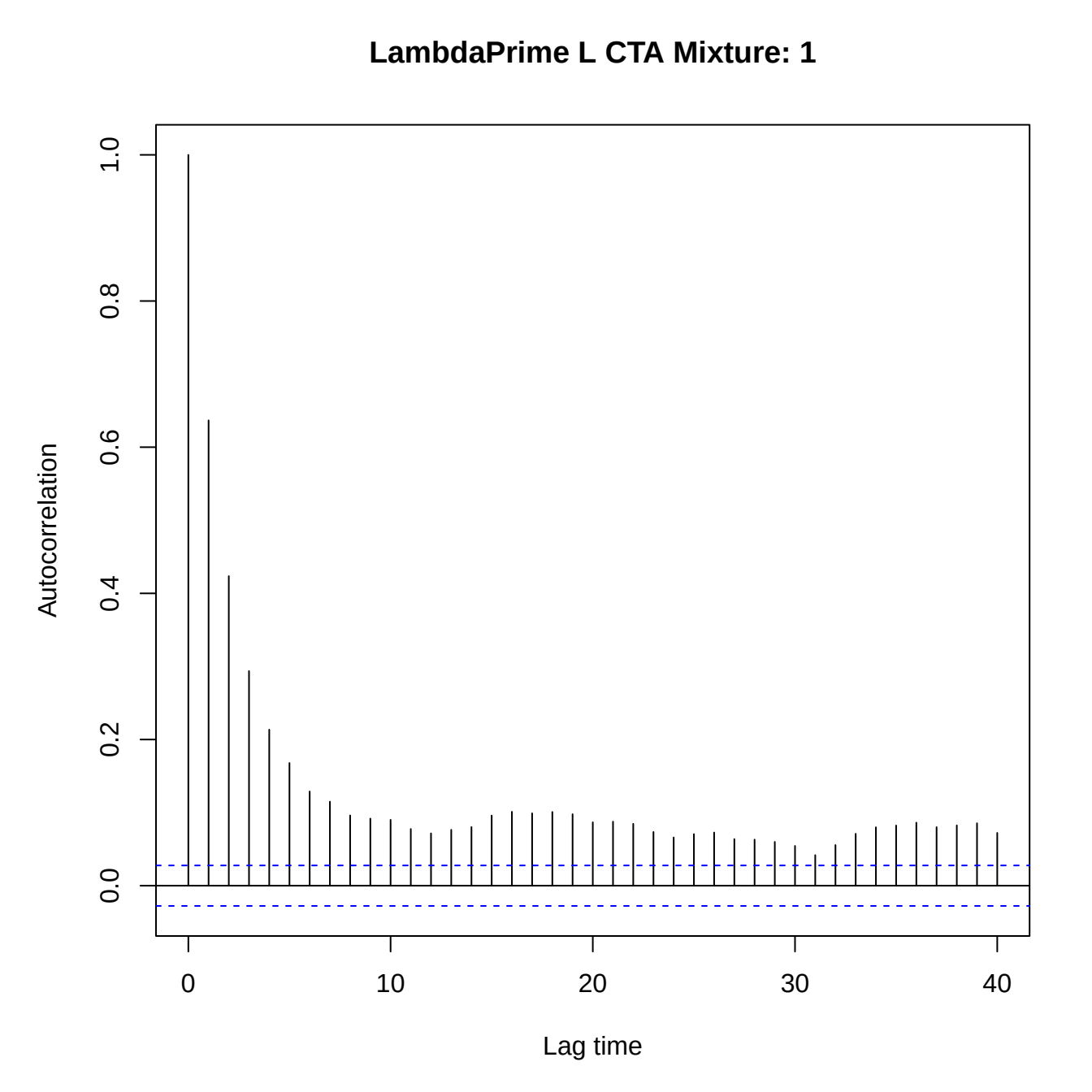
Lag time


LambdaPrime L CTA Mixture: 1
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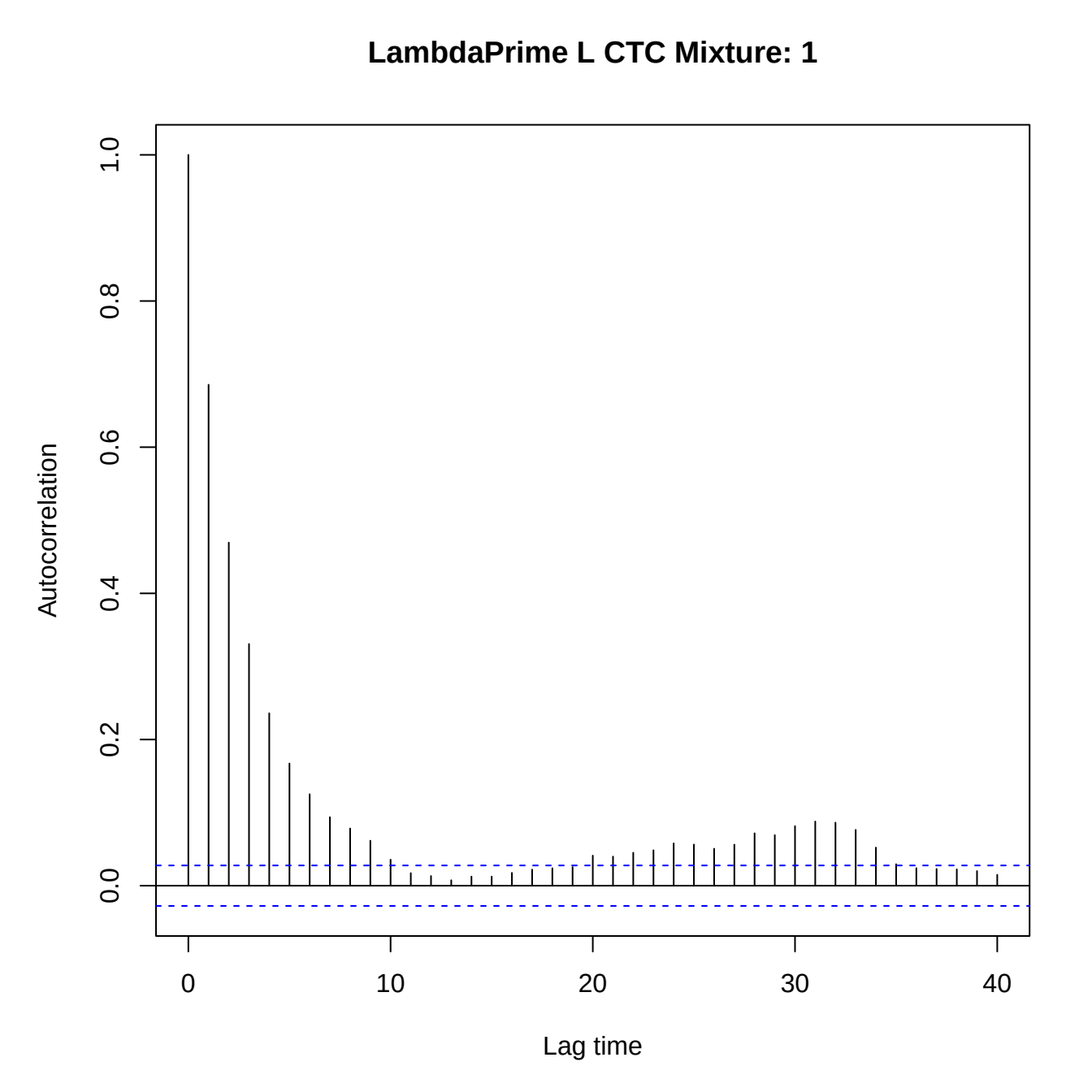
Lag time


LambdaPrime L CTC Mixture: 1
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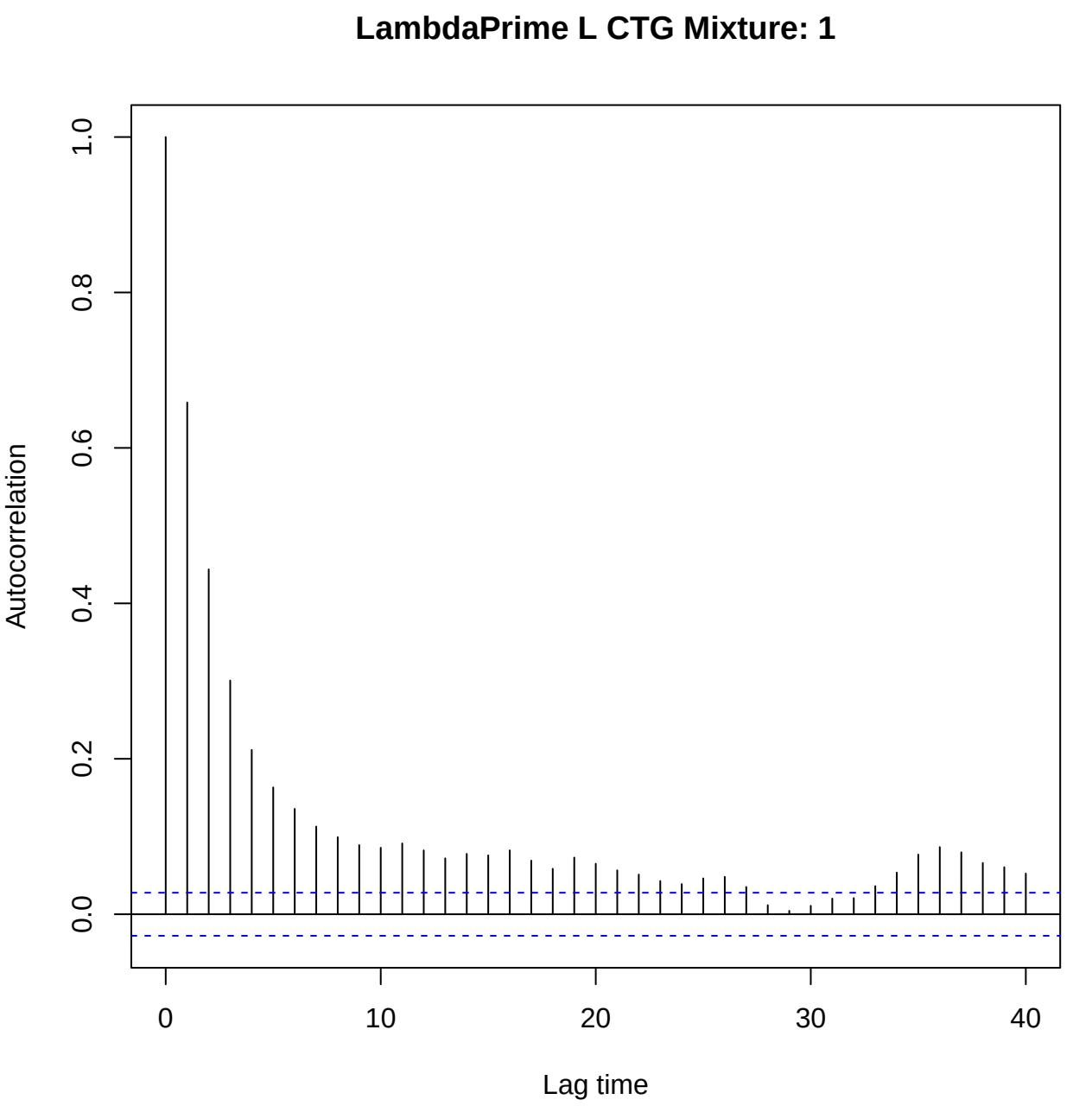
Lag time


LambdaPrime L CTG Mixture: 1
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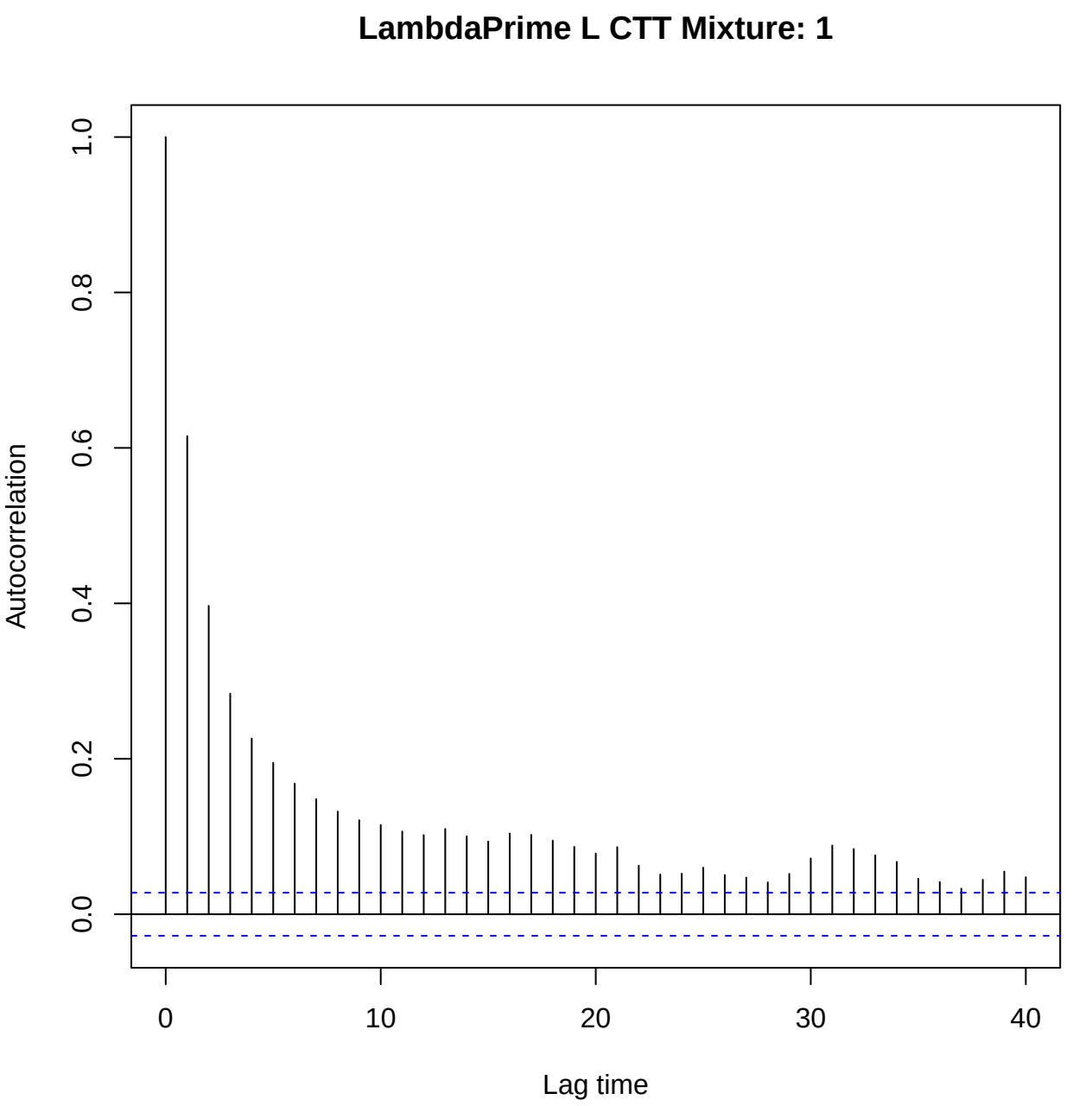
Lag time


LambdaPrime L CTT Mixture: 1
Autocorrelation
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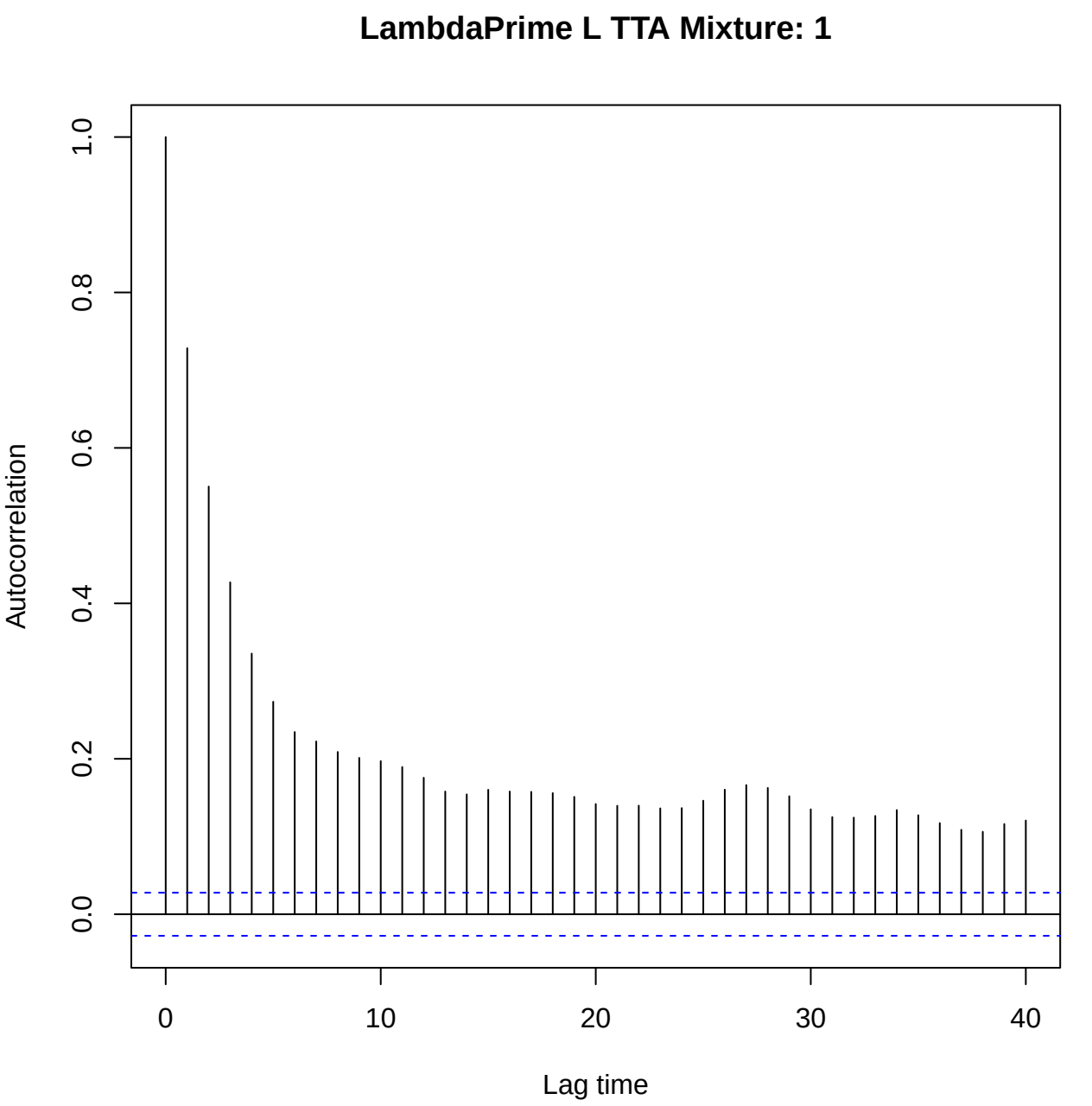
Lag time


LambdaPrime L TTA Mixture: 1
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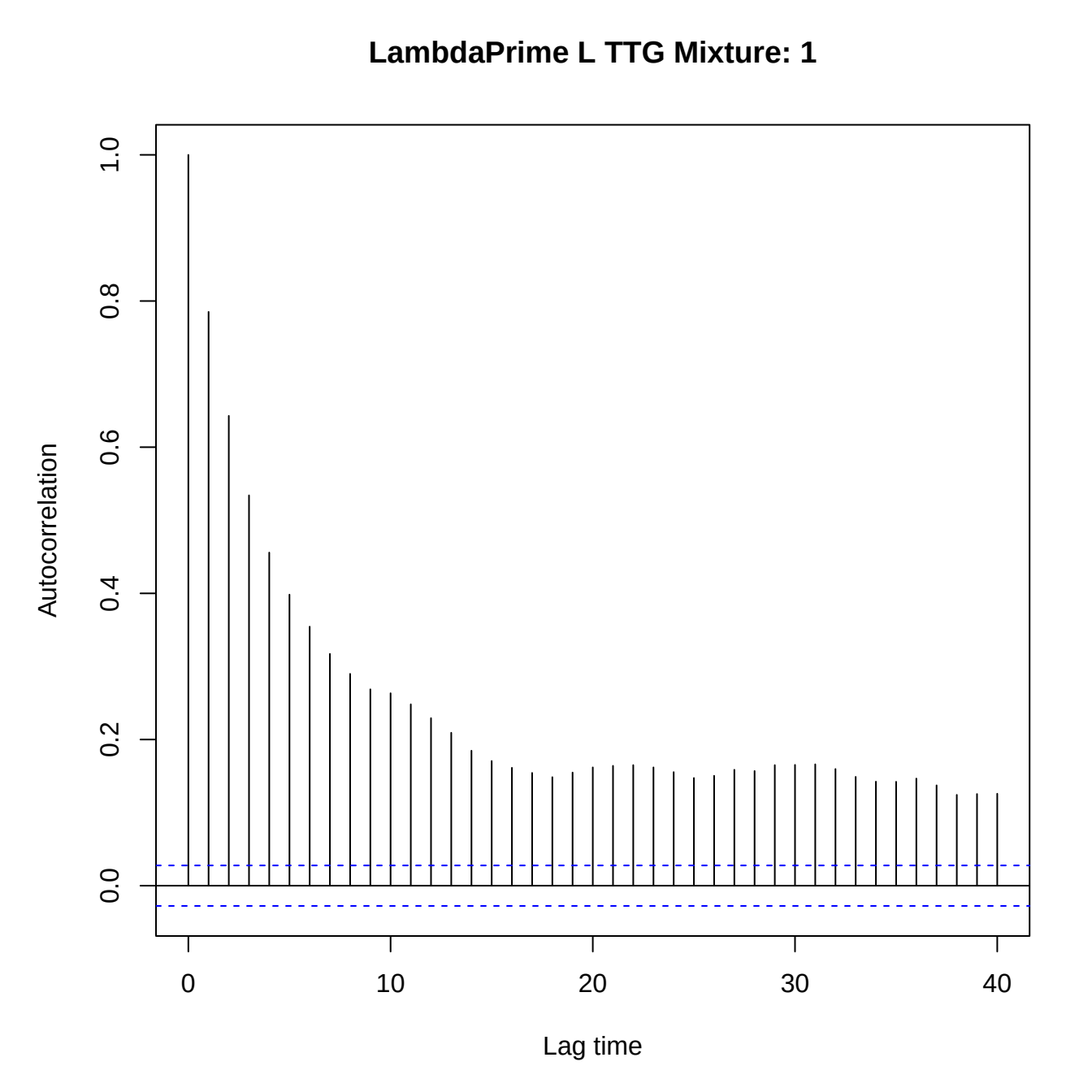
Lag time


LambdaPrime L TTG Mixture: 1
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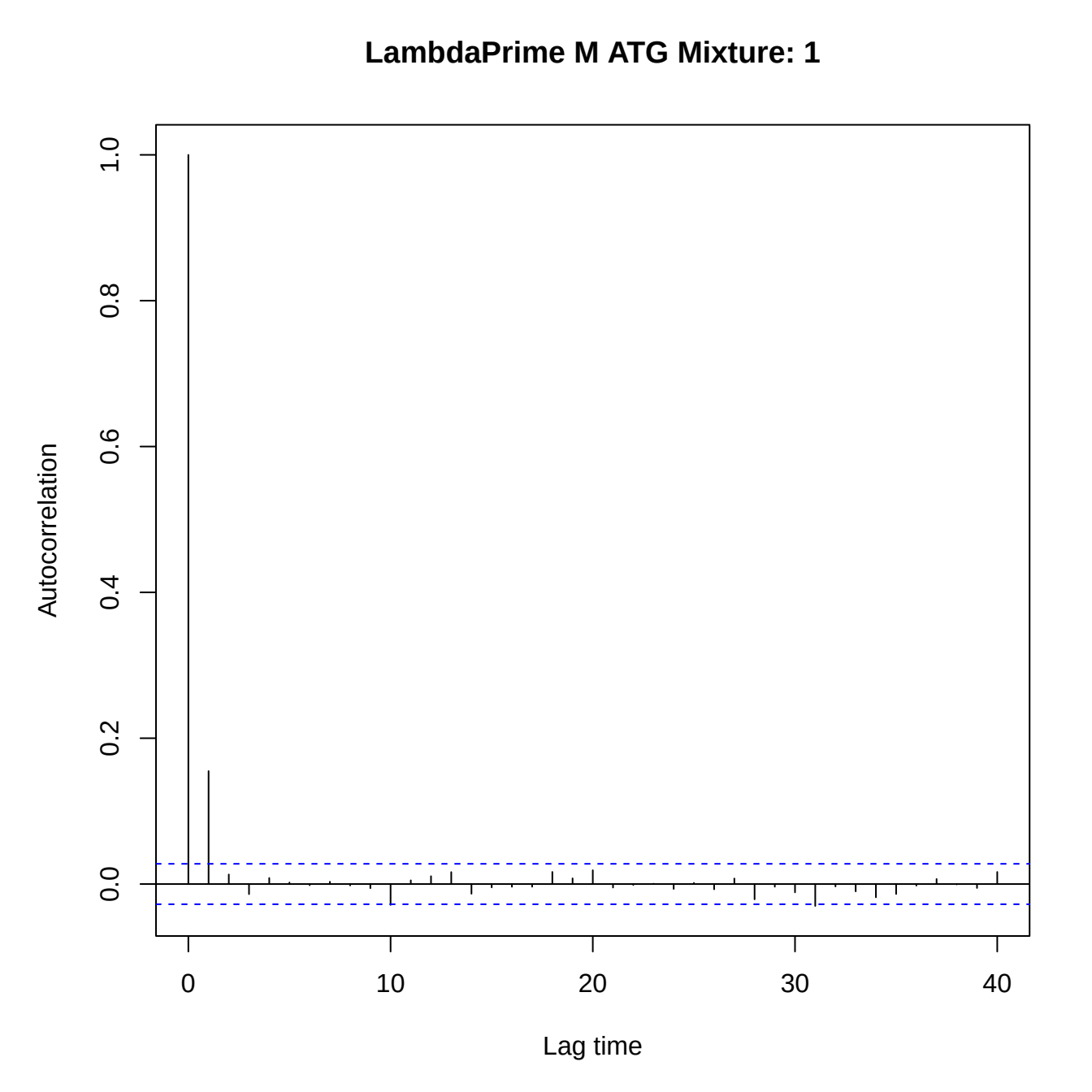
Lag time


LambdaPrime M ATG Mixture: 1
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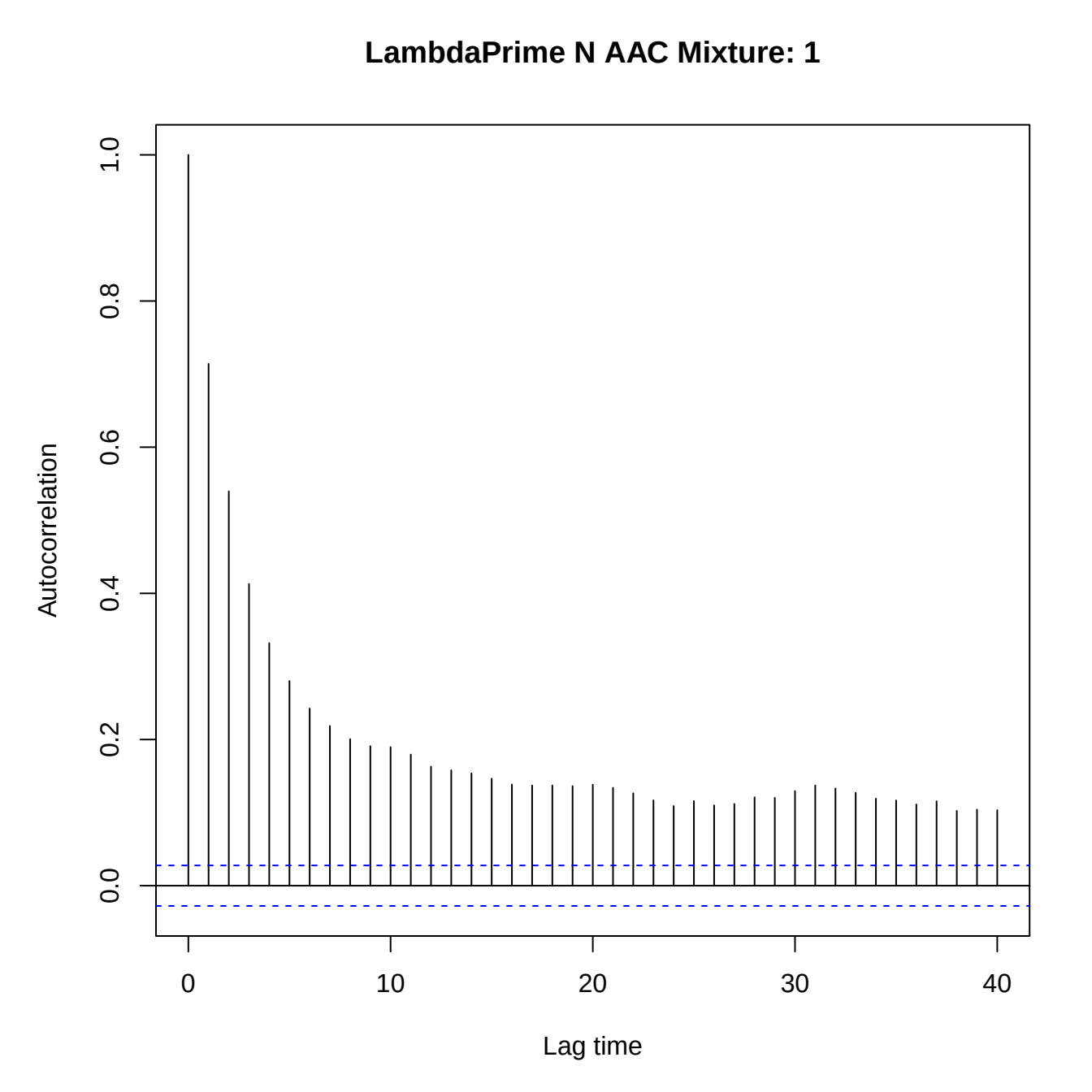
Lag time


LambdaPrime N AAC Mixture: 1
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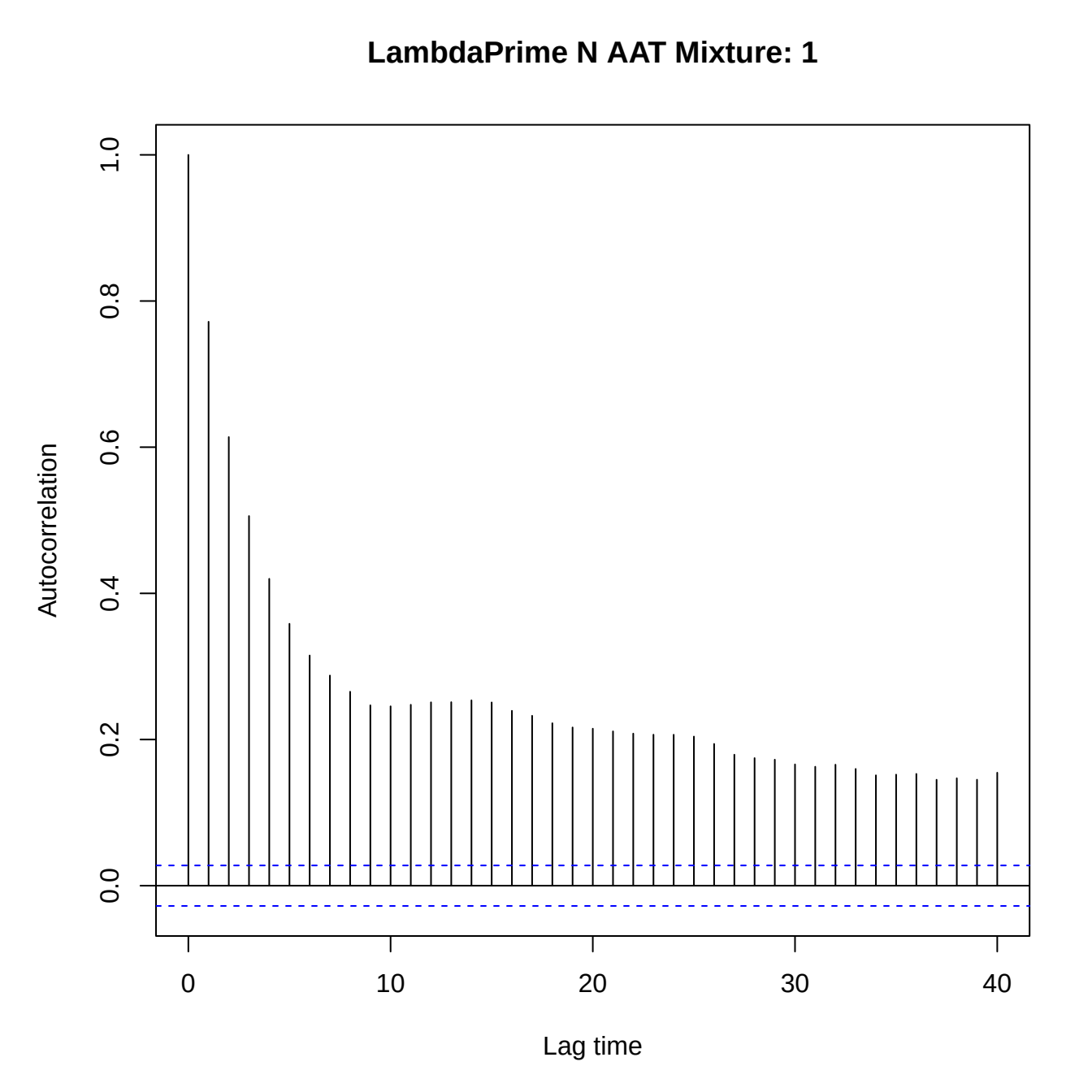
Lag time


LambdaPrime N AAT Mixture: 1
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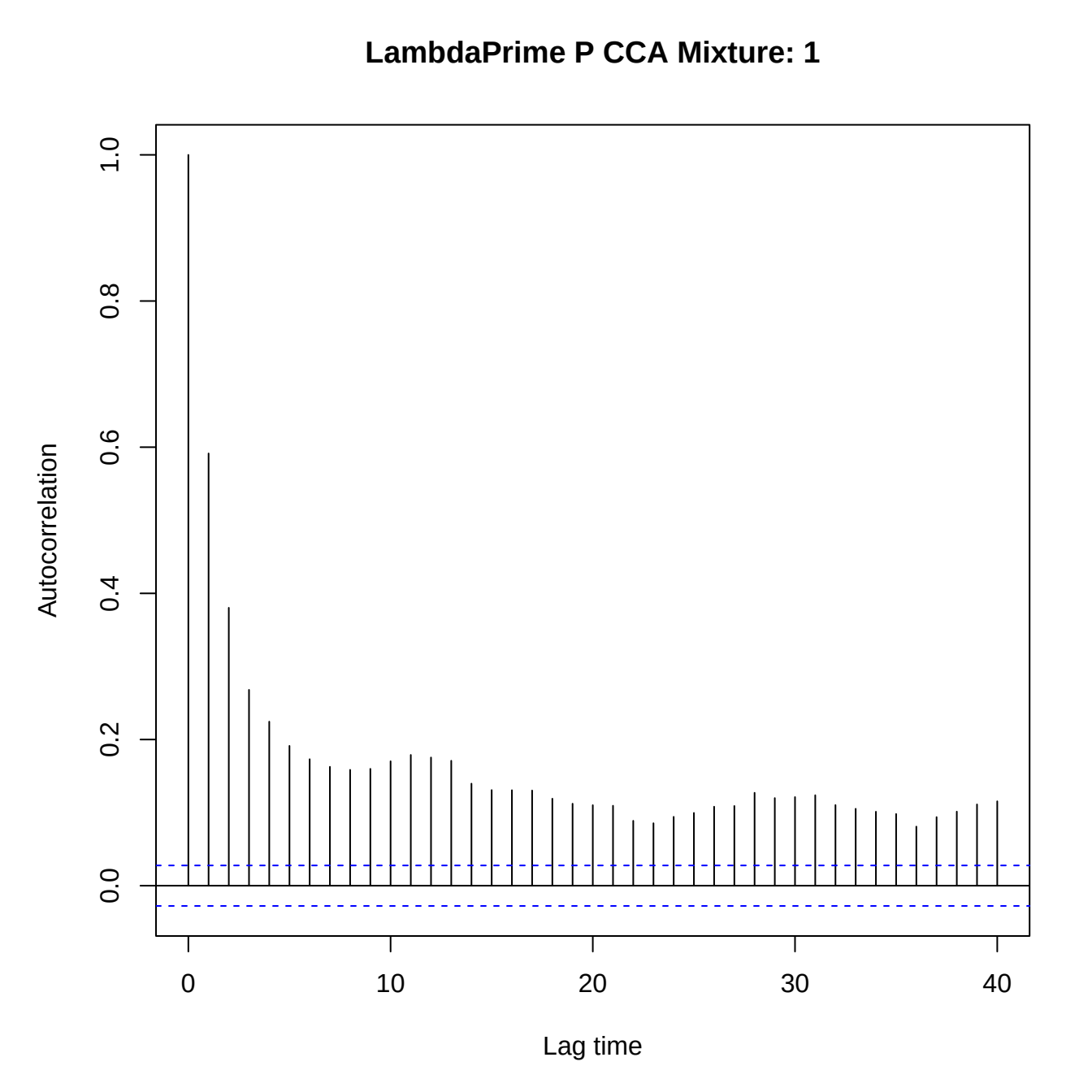
Lag time


LambdaPrime P CCA Mixture: 1
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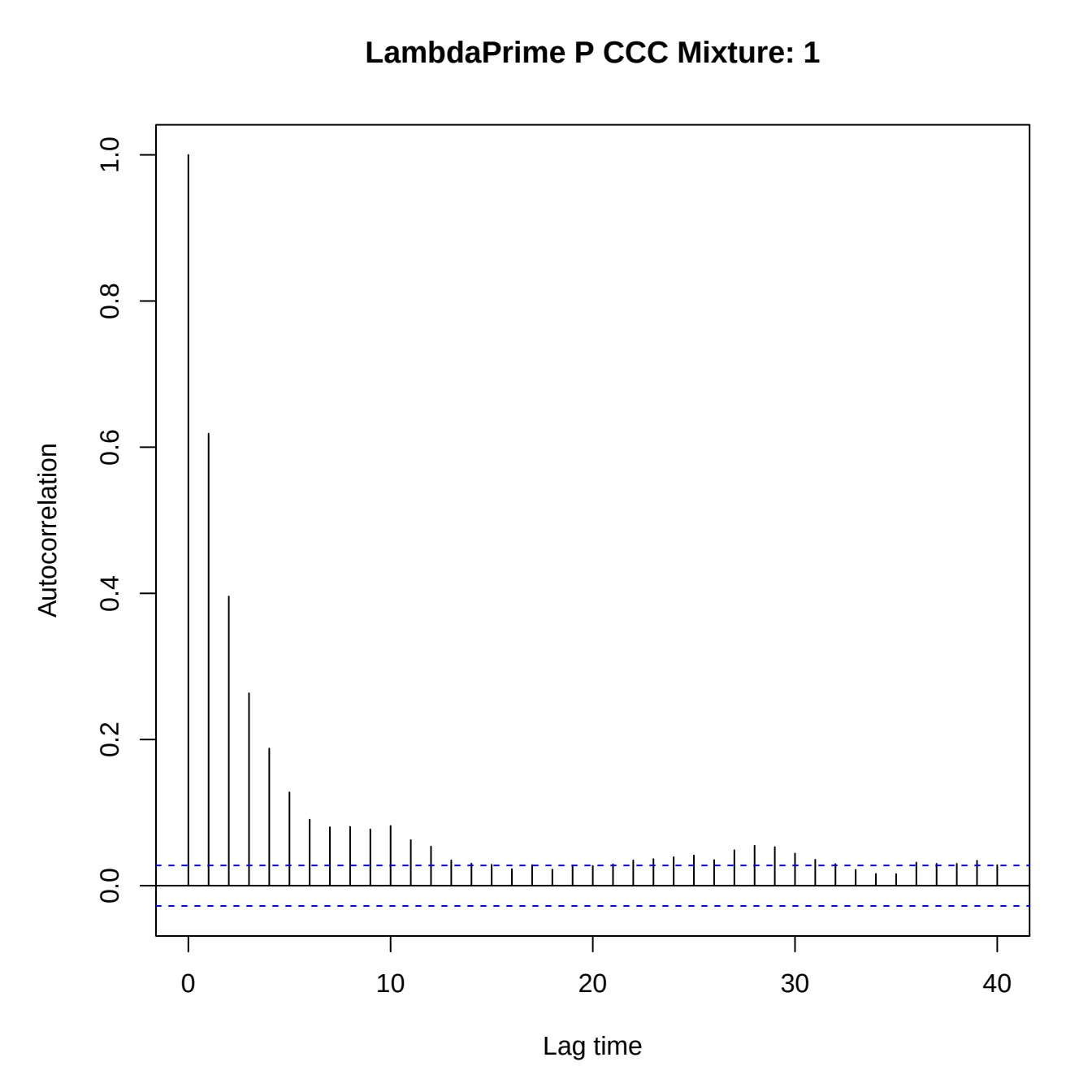
Lag time


LambdaPrime P CCC Mixture: 1
Autocorrelation
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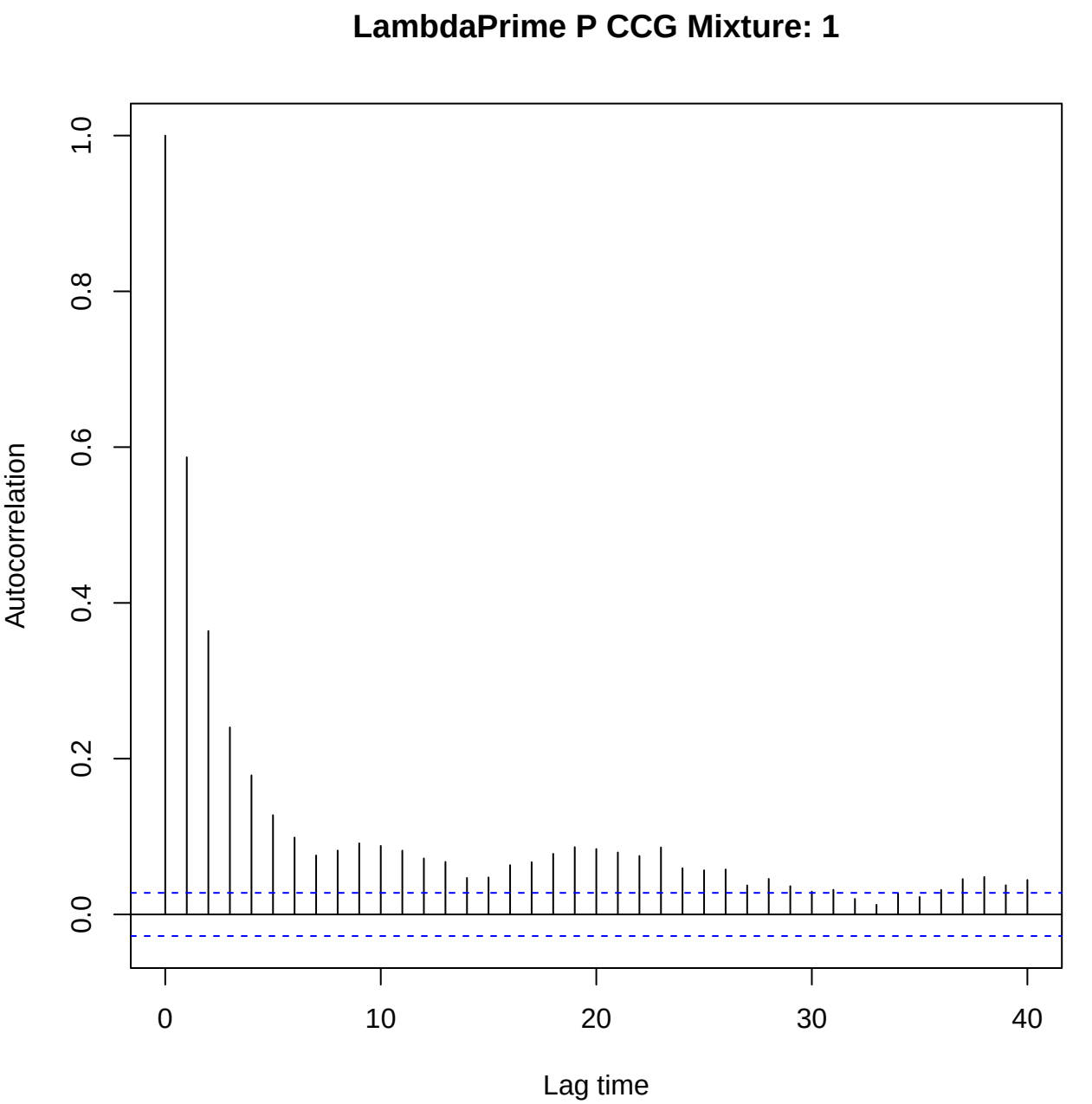
Lag time


LambdaPrime P CCG Mixture: 1
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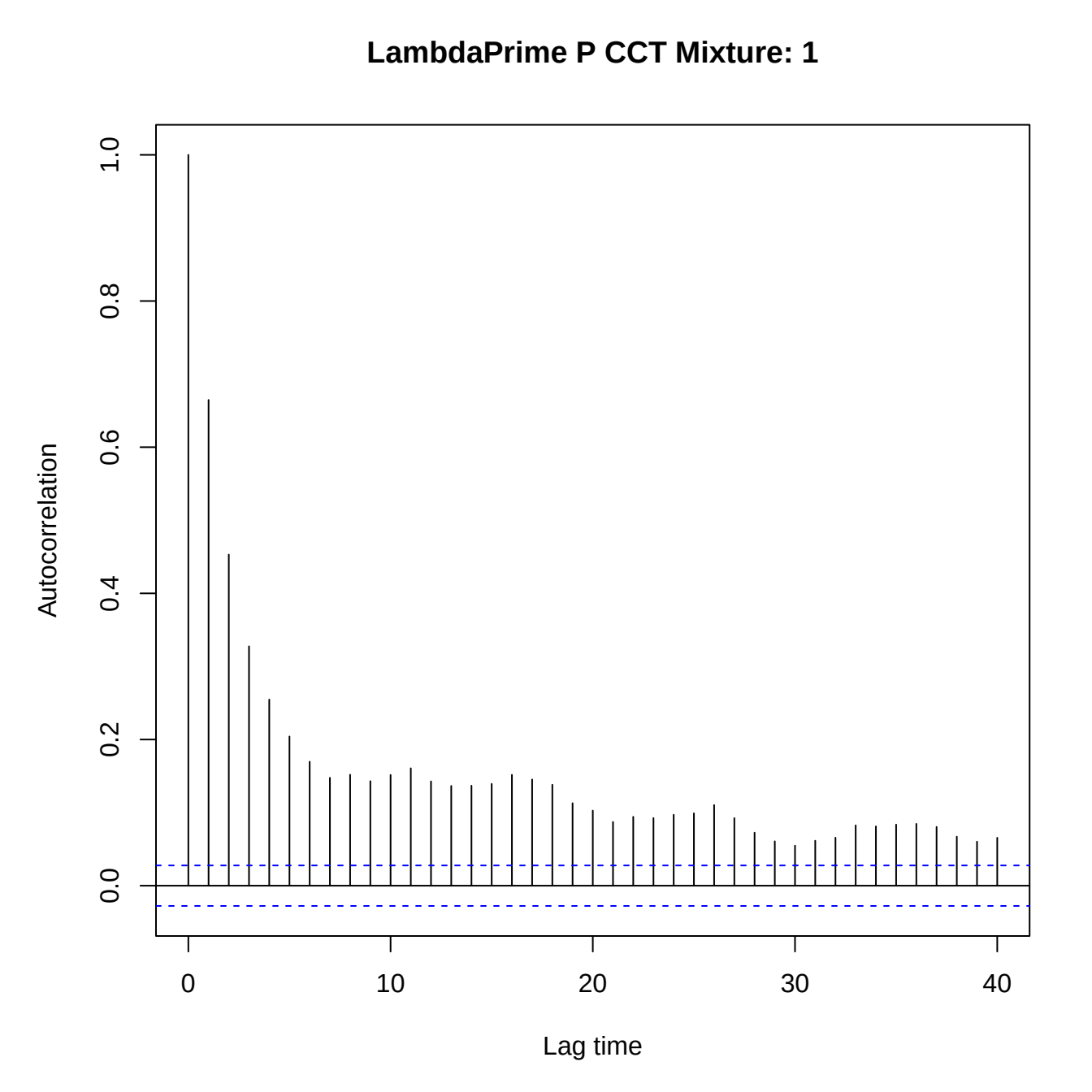
Lag time


LambdaPrime P CCT Mixture: 1
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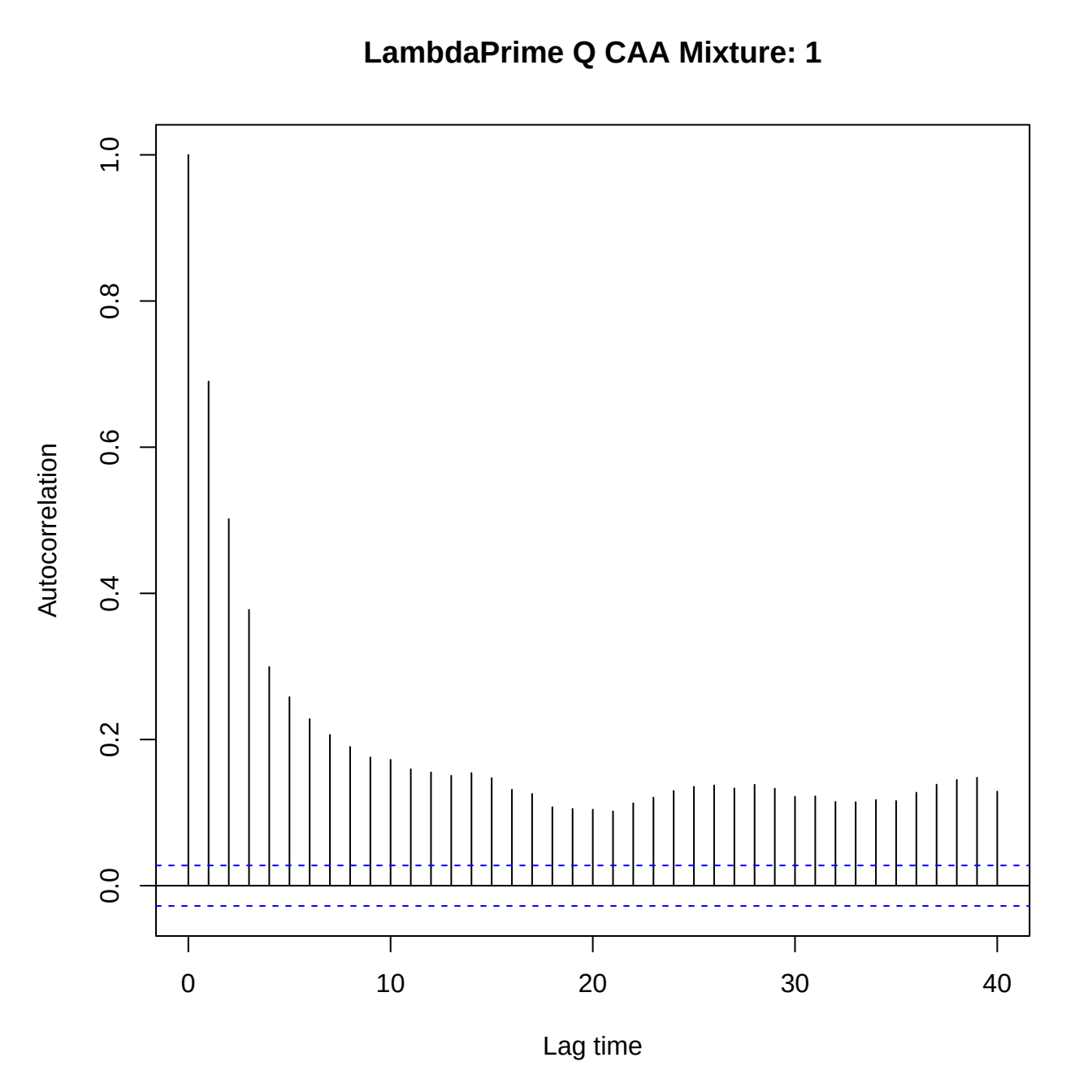
Lag time


LambdaPrime Q CAA Mixture: 1
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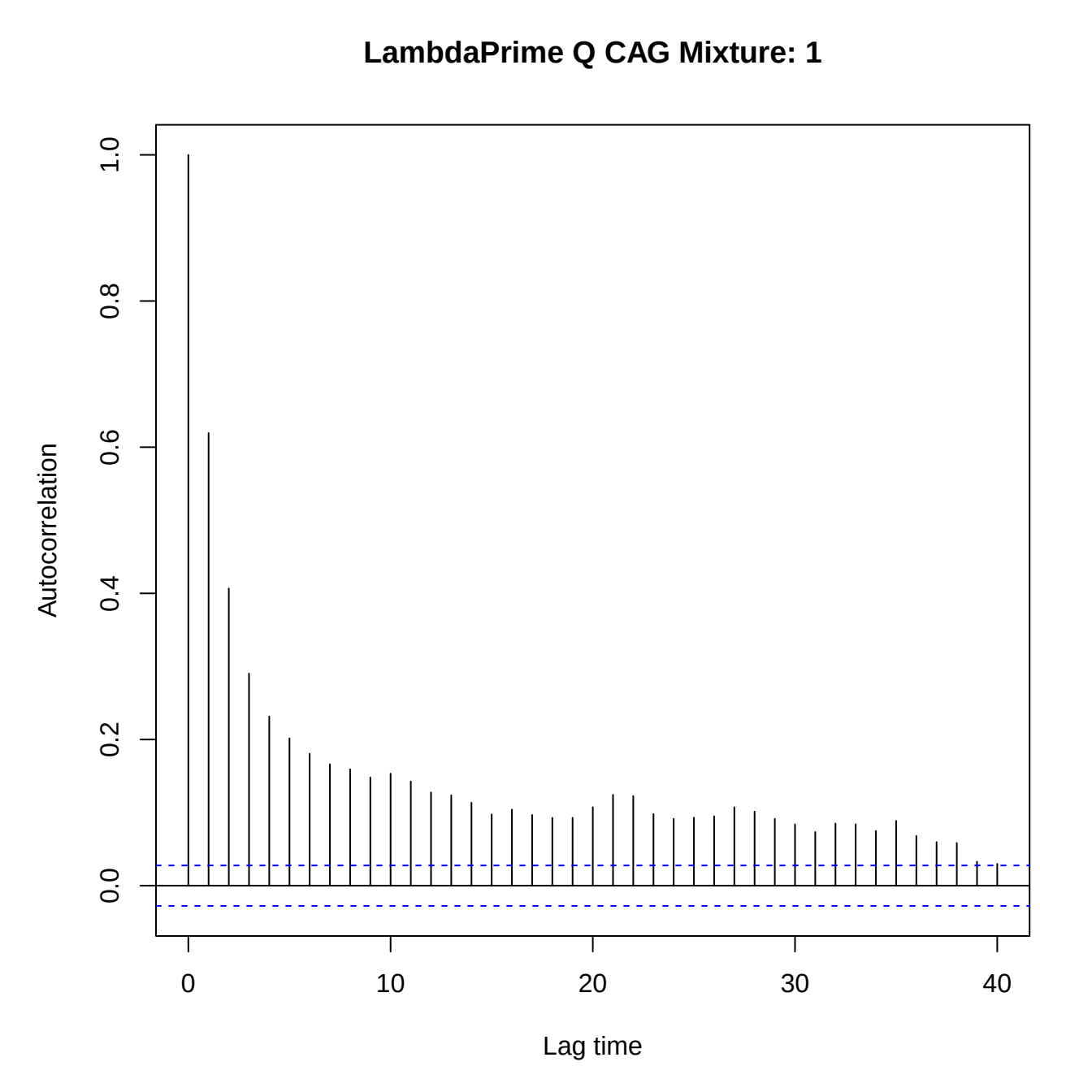
Lag time


LambdaPrime Q CAG Mixture: 1
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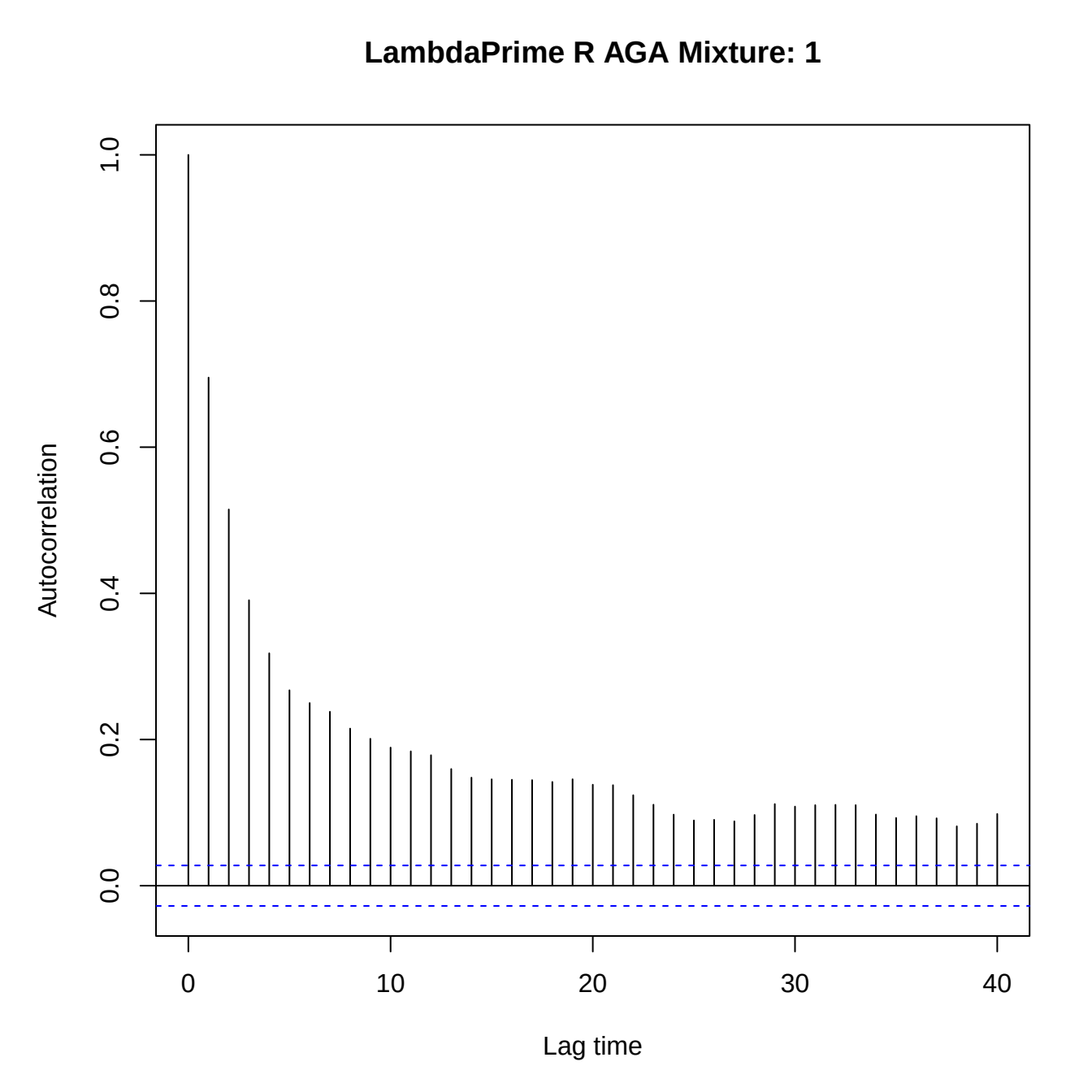
Lag time


LambdaPrime R AGA Mixture: 1
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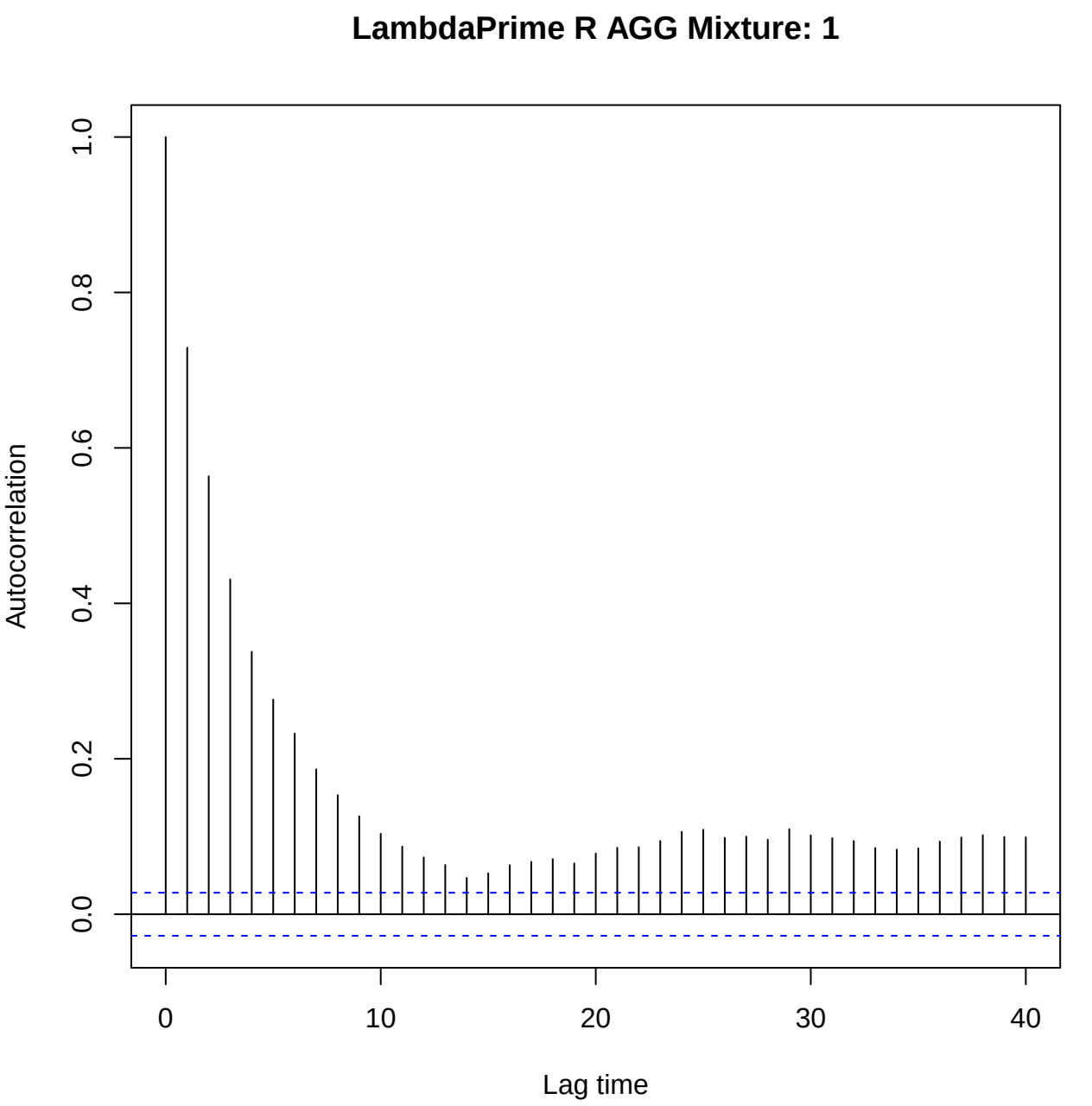
Lag time


LambdaPrime R AGG Mixture: 1
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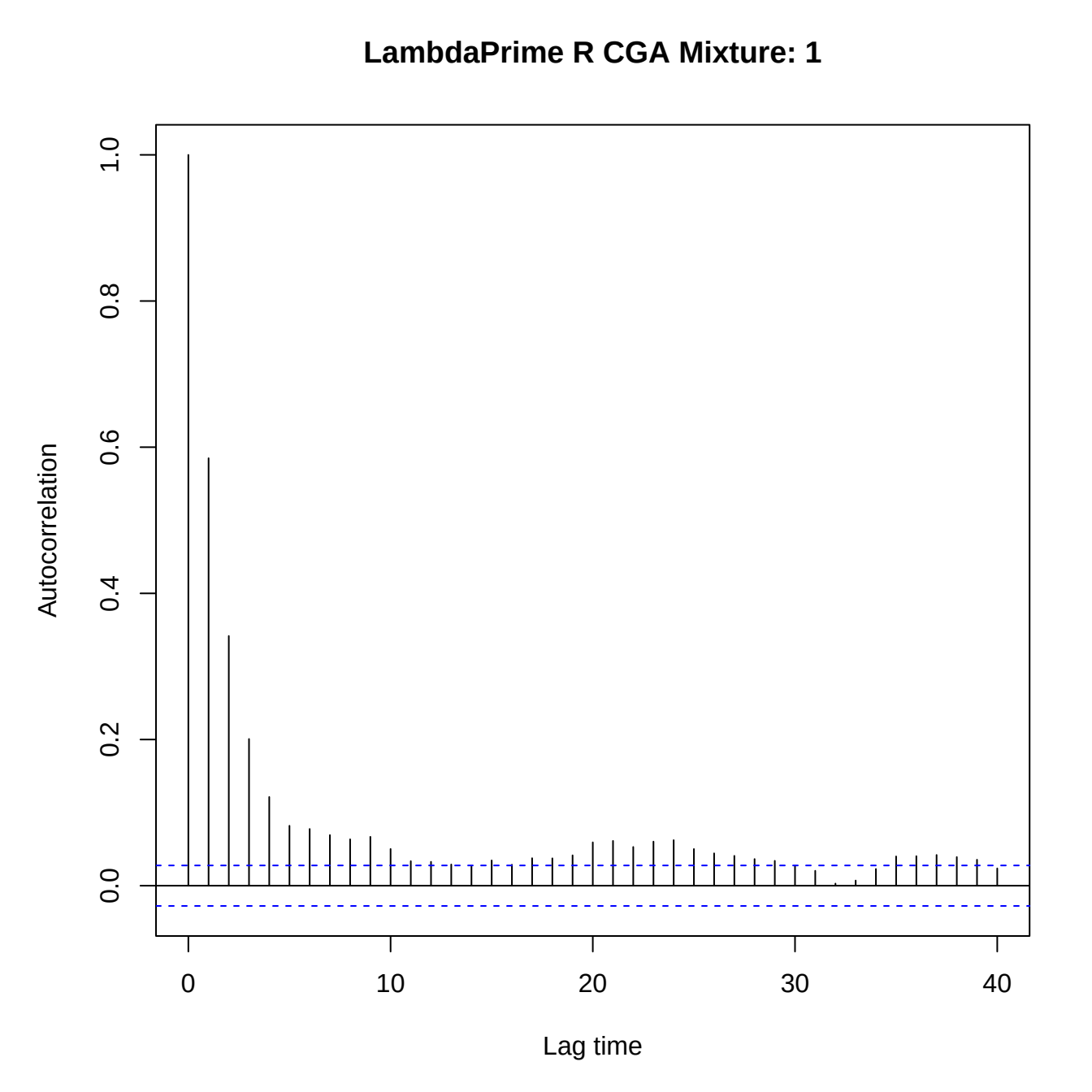
Lag time


LambdaPrime R CGA Mixture: 1
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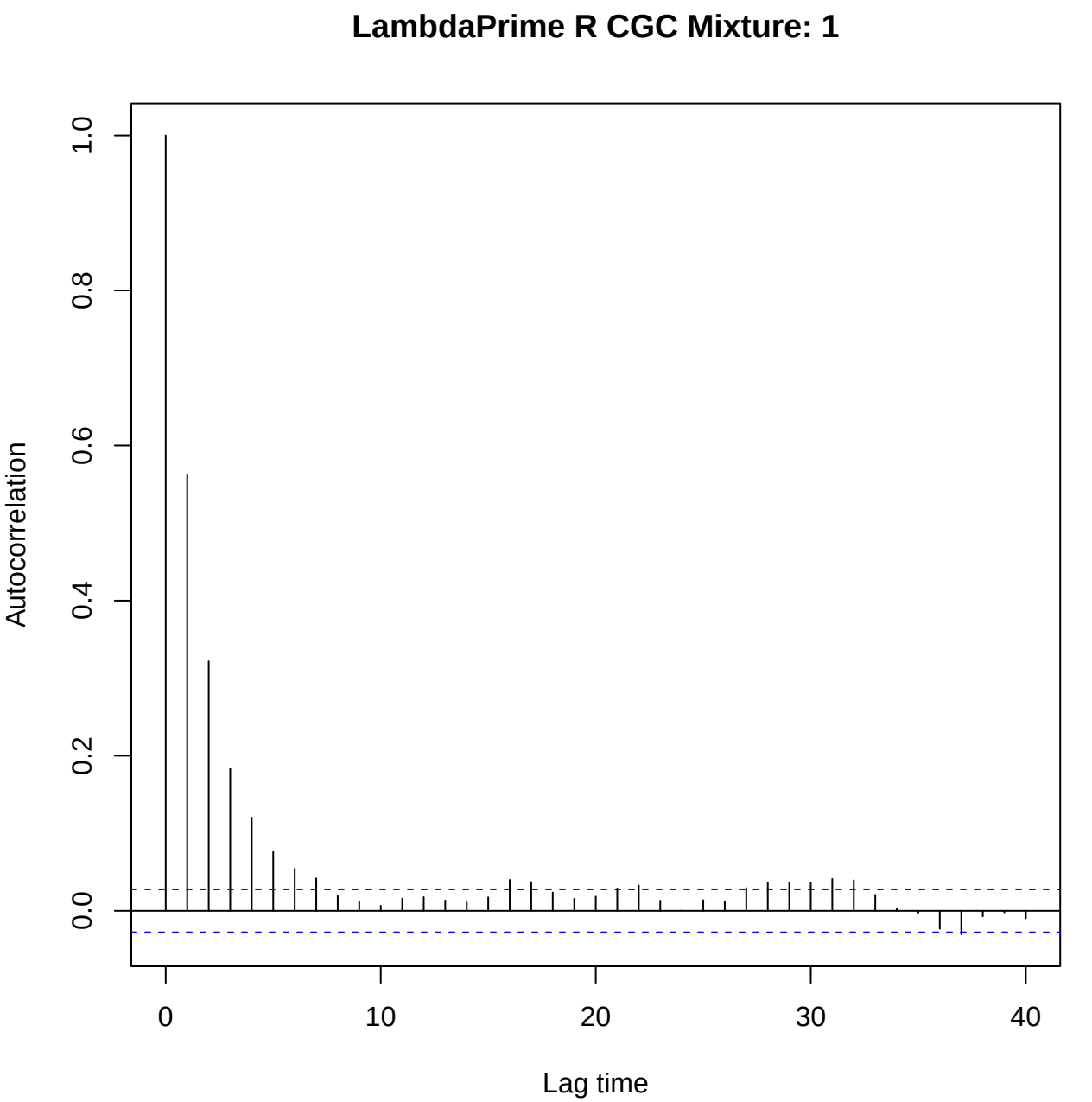
Lag time


LambdaPrime R CGC Mixture: 1
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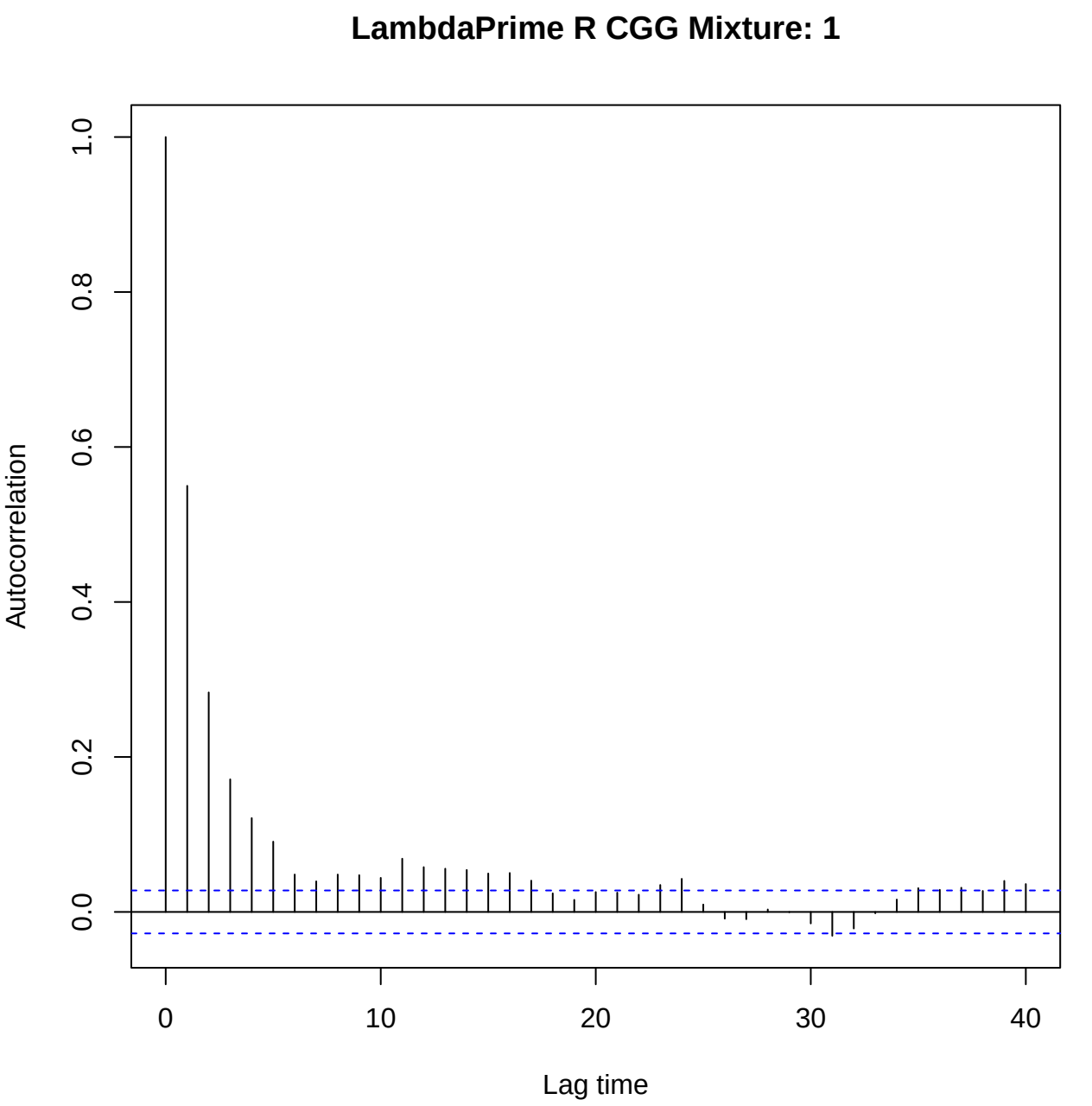
Lag time


LambdaPrime R CGG Mixture: 1
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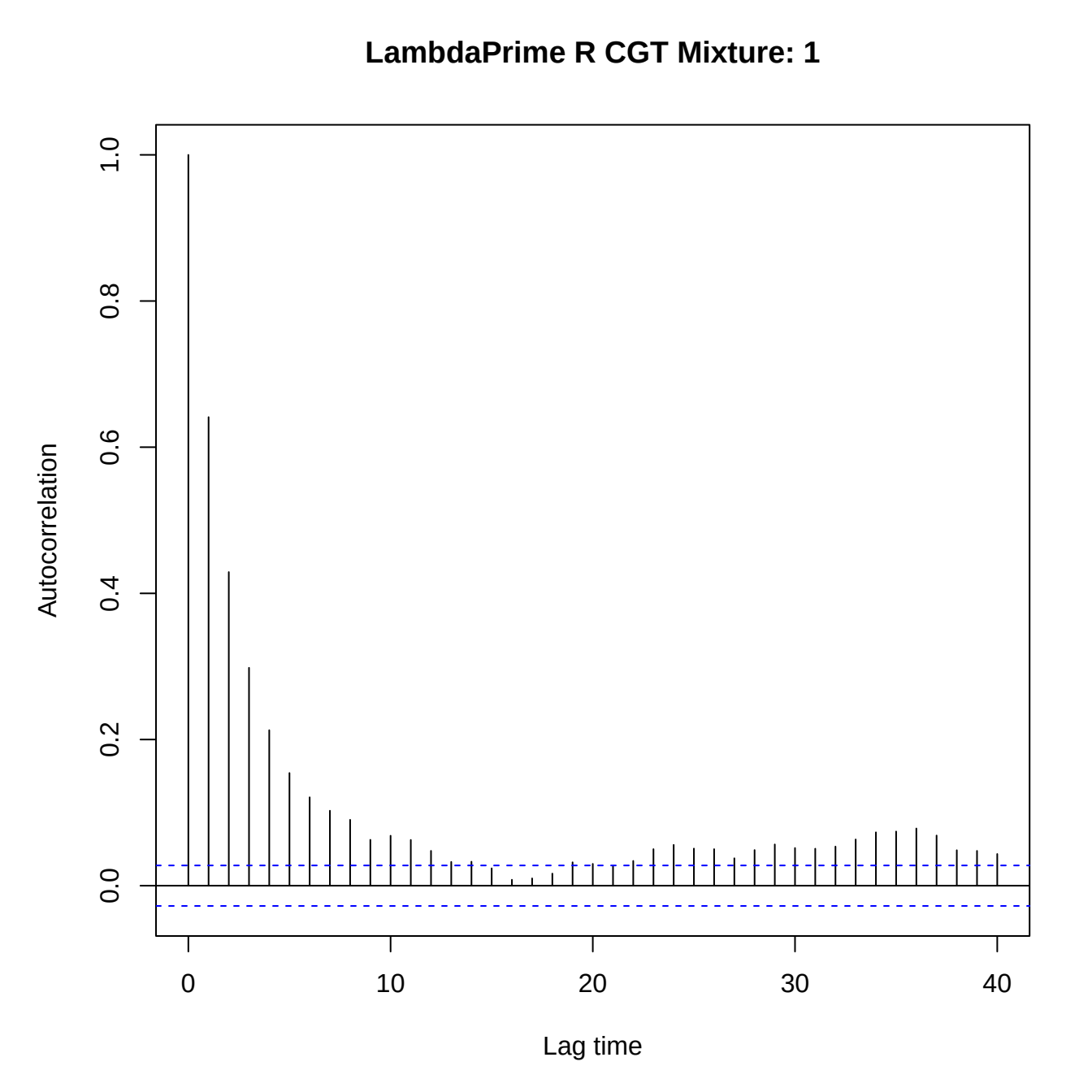
Lag time


LambdaPrime R CGT Mixture: 1
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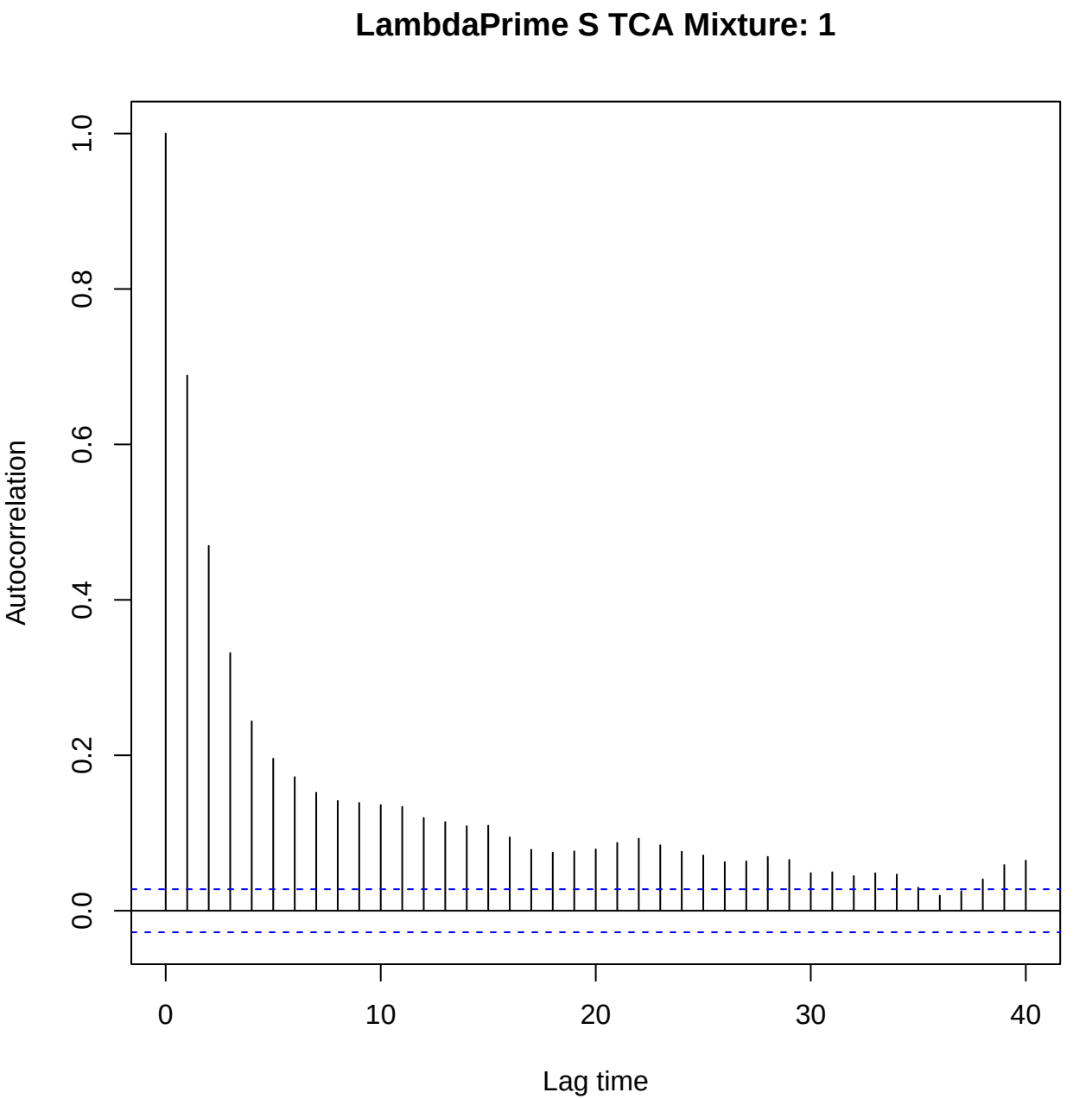
Lag time


LambdaPrime S TCA Mixture: 1
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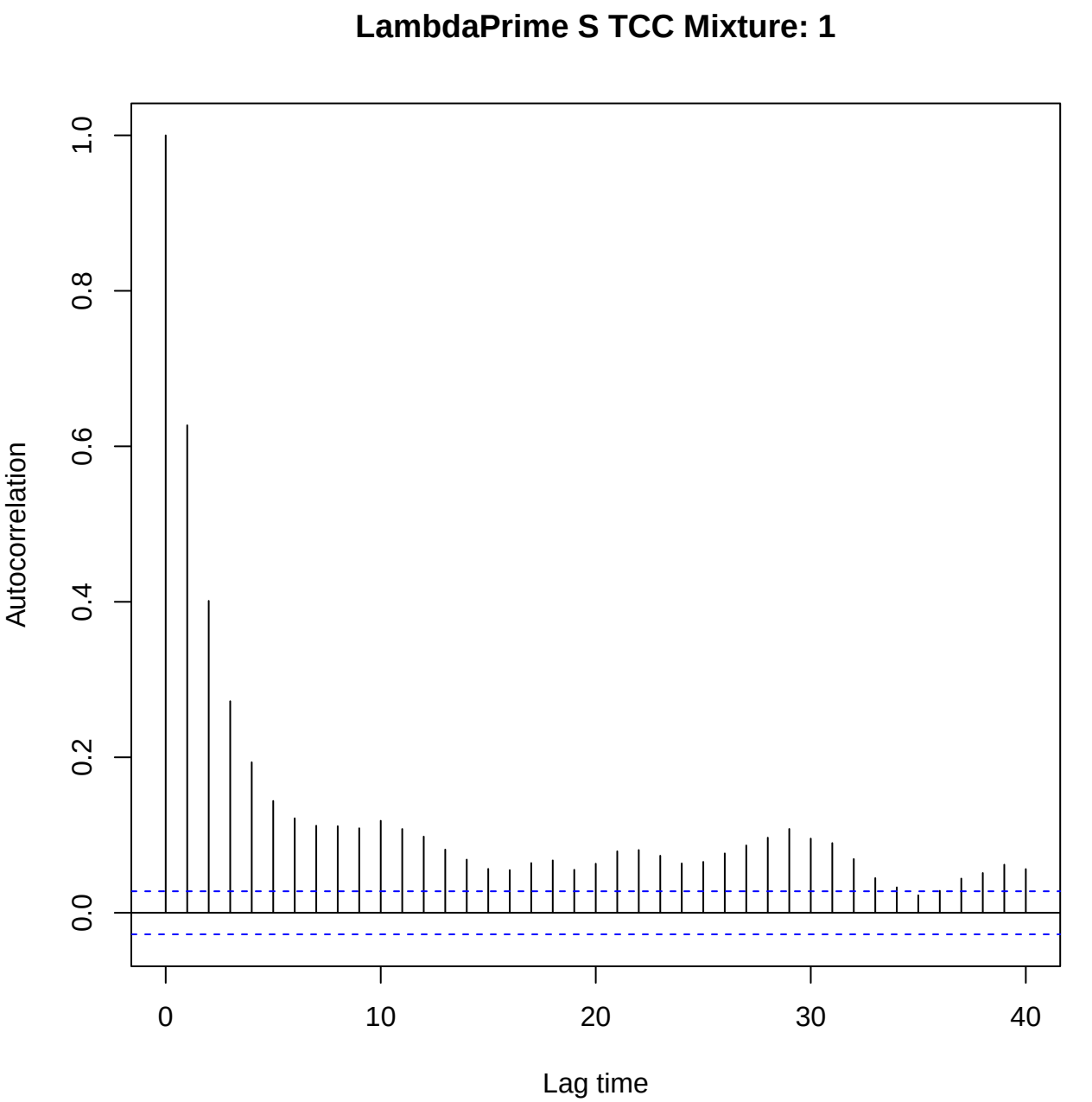
Lag time


LambdaPrime S TCC Mixture: 1
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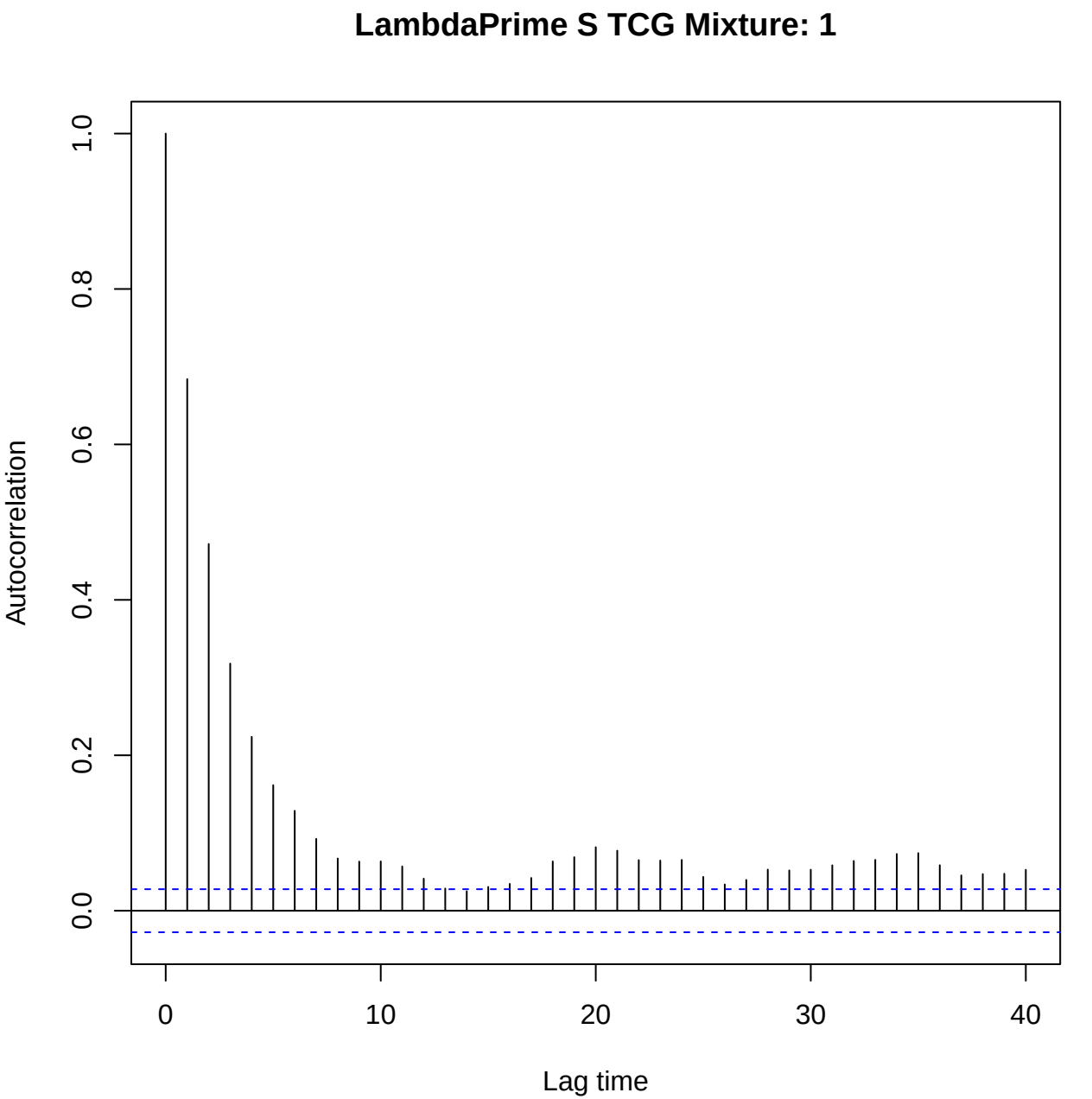
Lag time


LambdaPrime S TCG Mixture: 1
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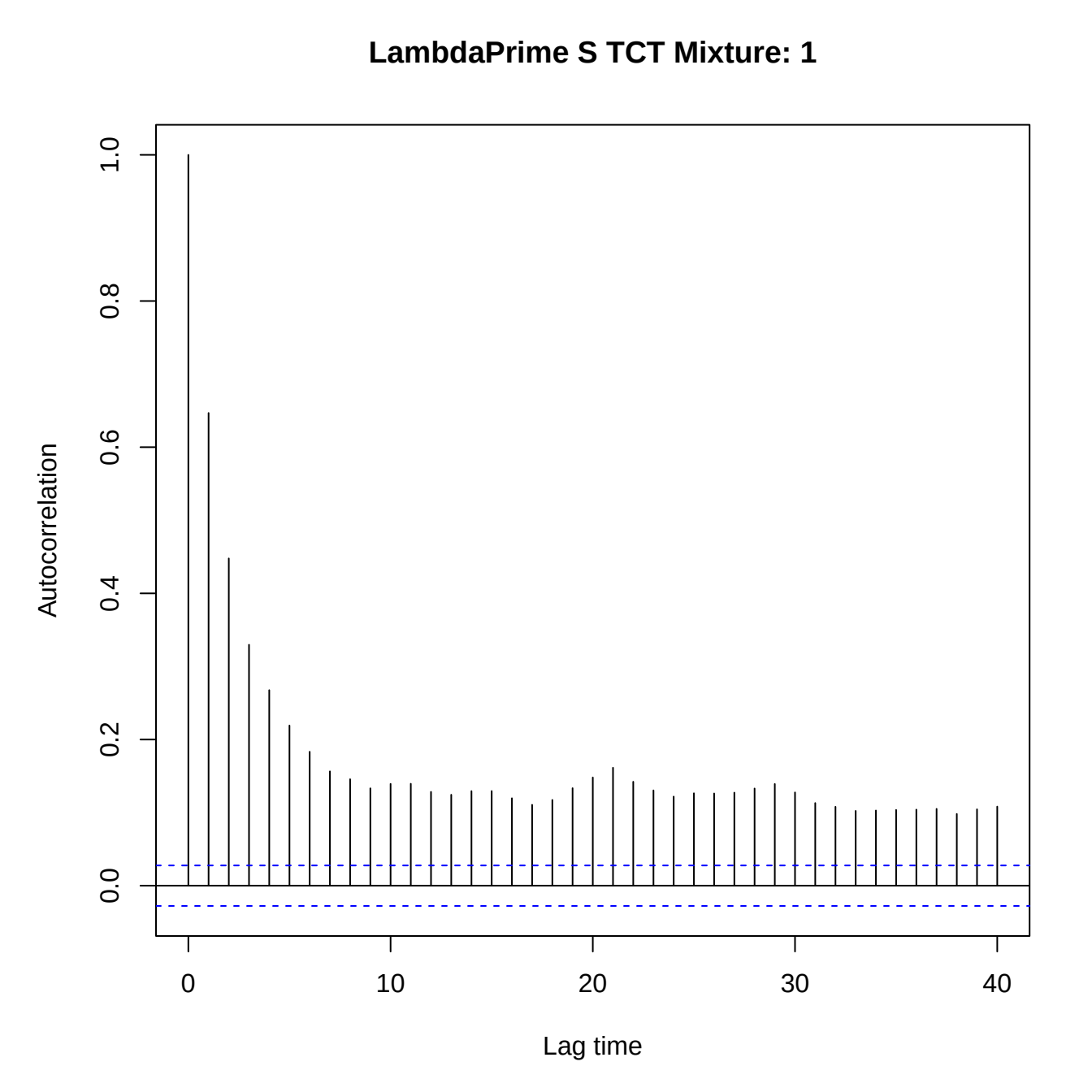
Lag time


LambdaPrime S TCT Mixture: 1
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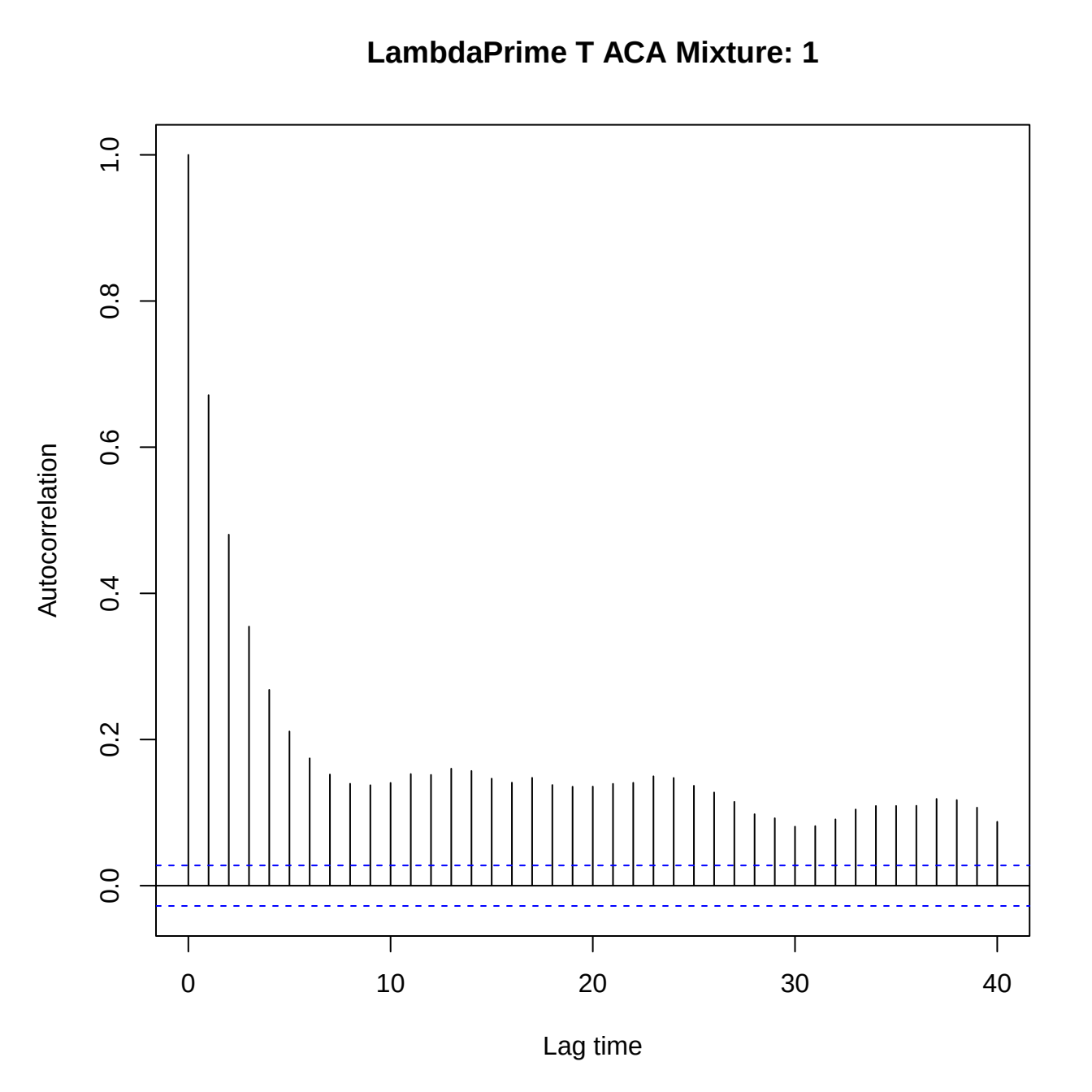
Lag time


LambdaPrime T ACA Mixture: 1
Autocorrelation
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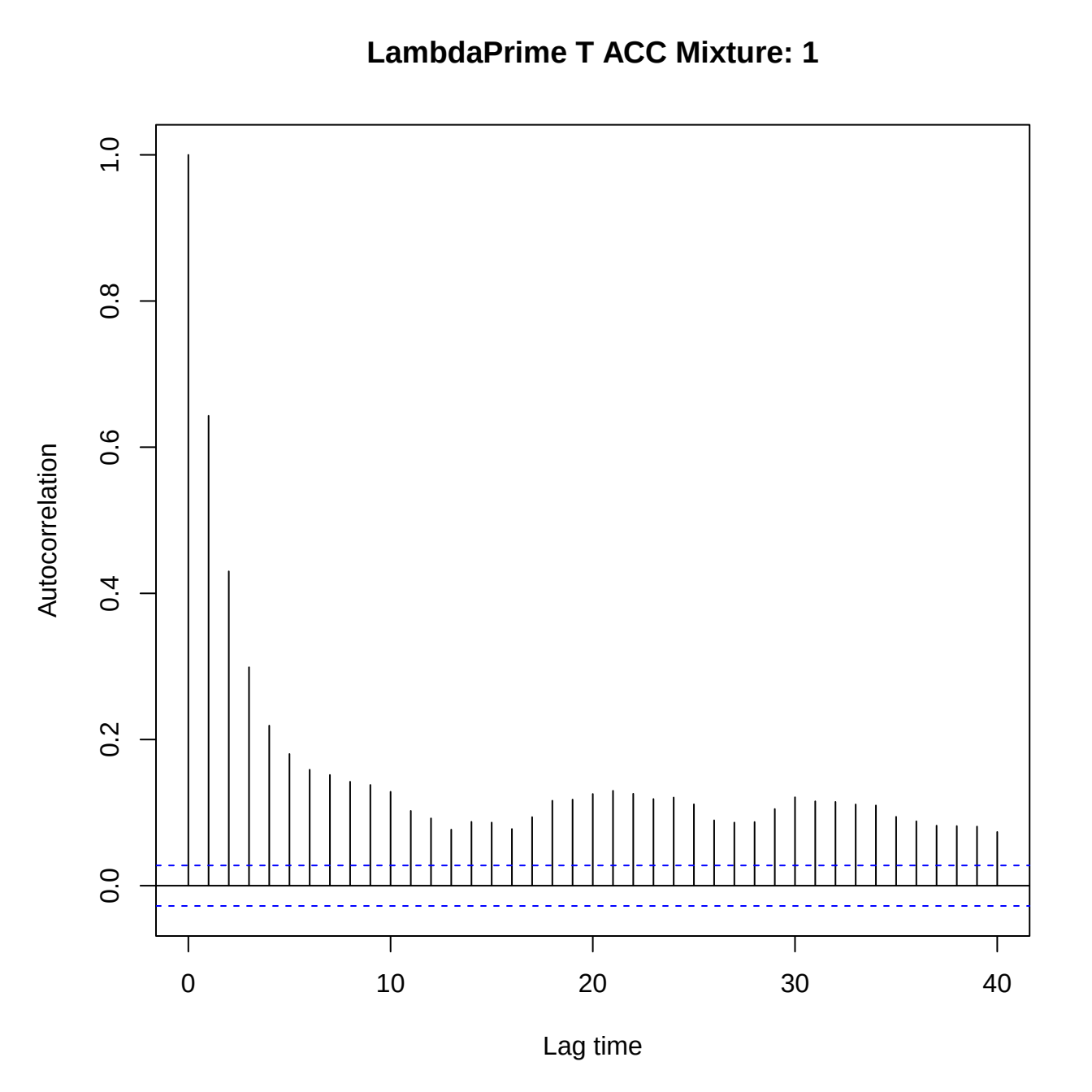
Lag time


LambdaPrime T ACC Mixture: 1
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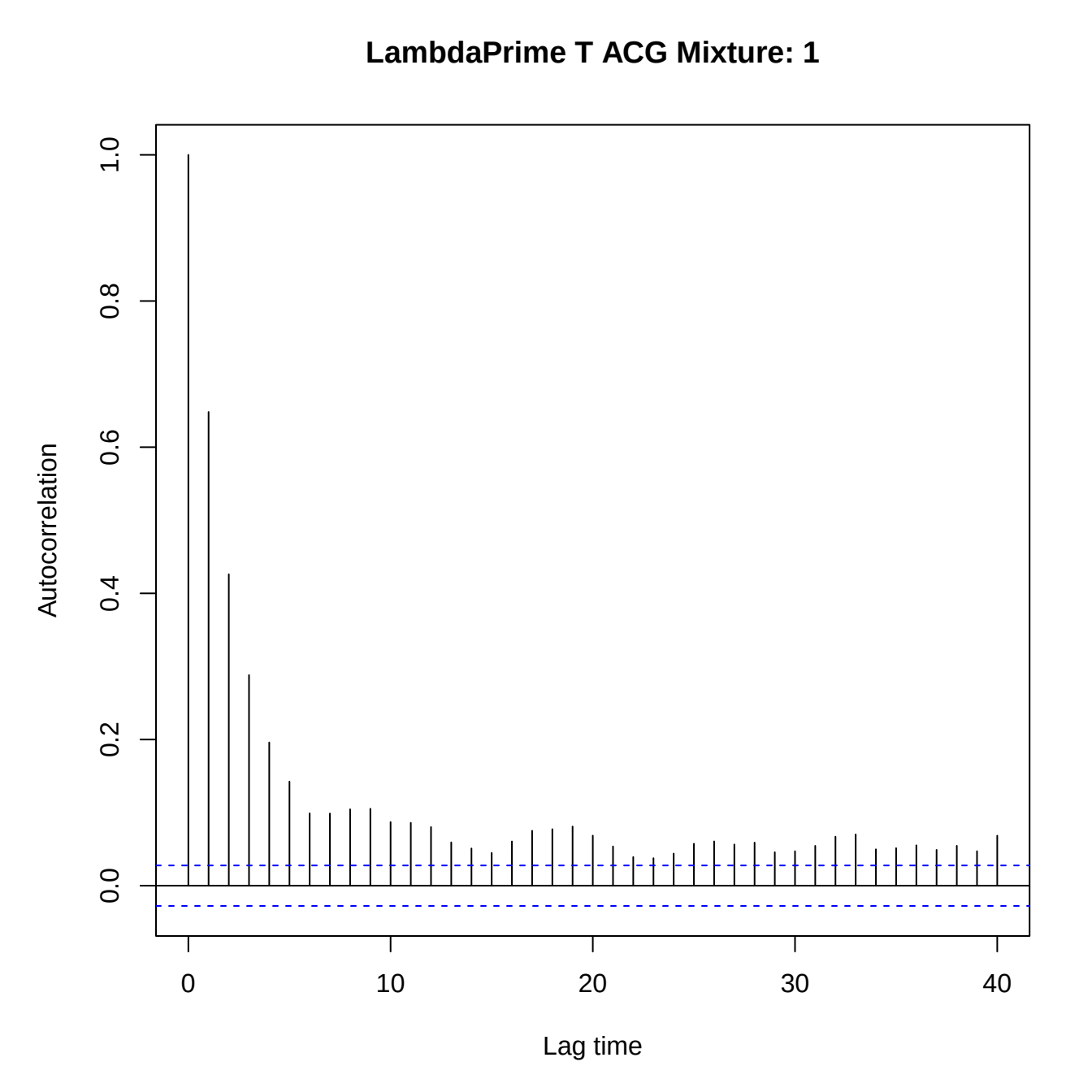
Lag time


LambdaPrime T ACG Mixture: 1
Autocorrelation
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0.8
1.0
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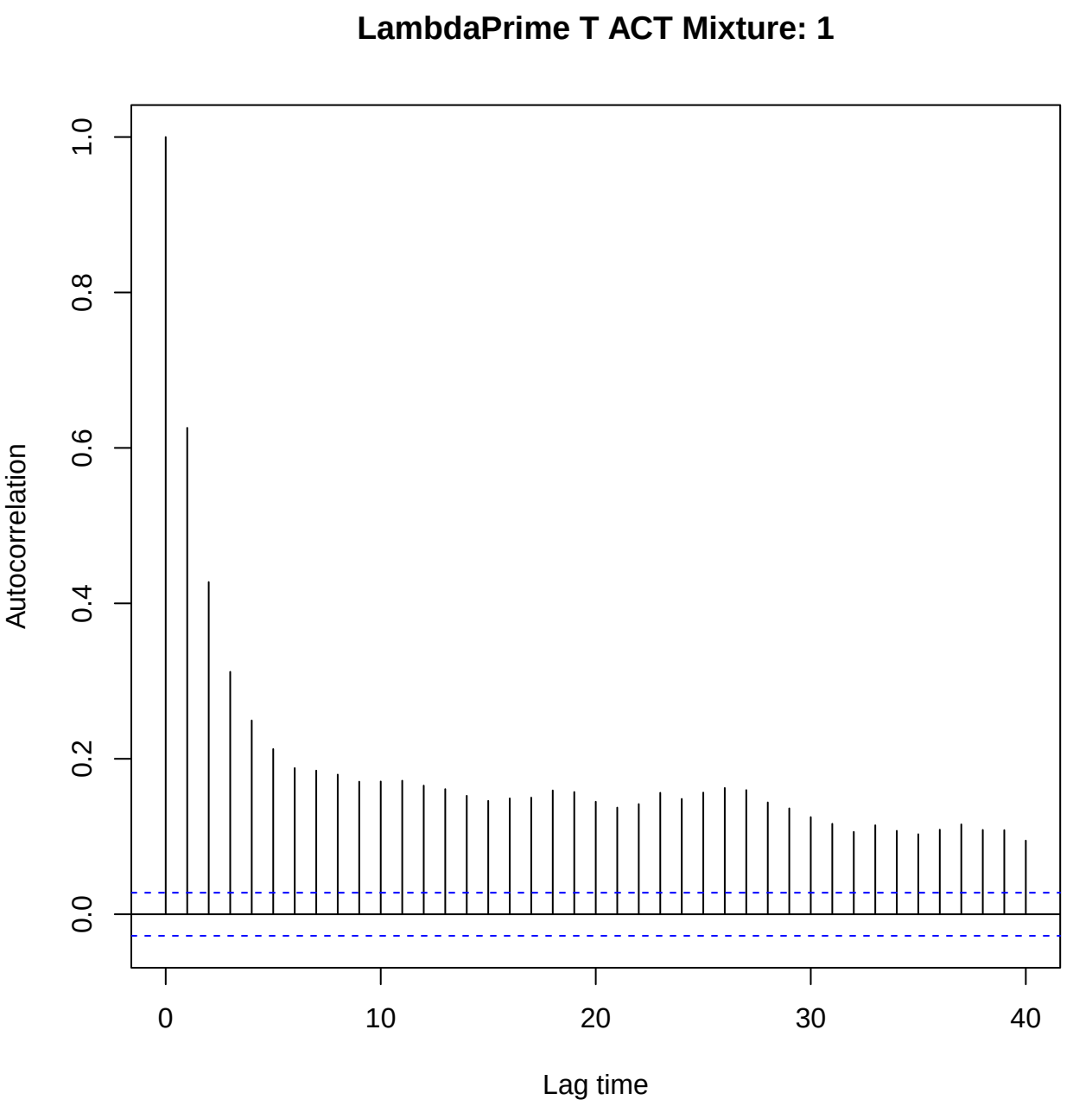
Lag time


LambdaPrime T ACT Mixture: 1
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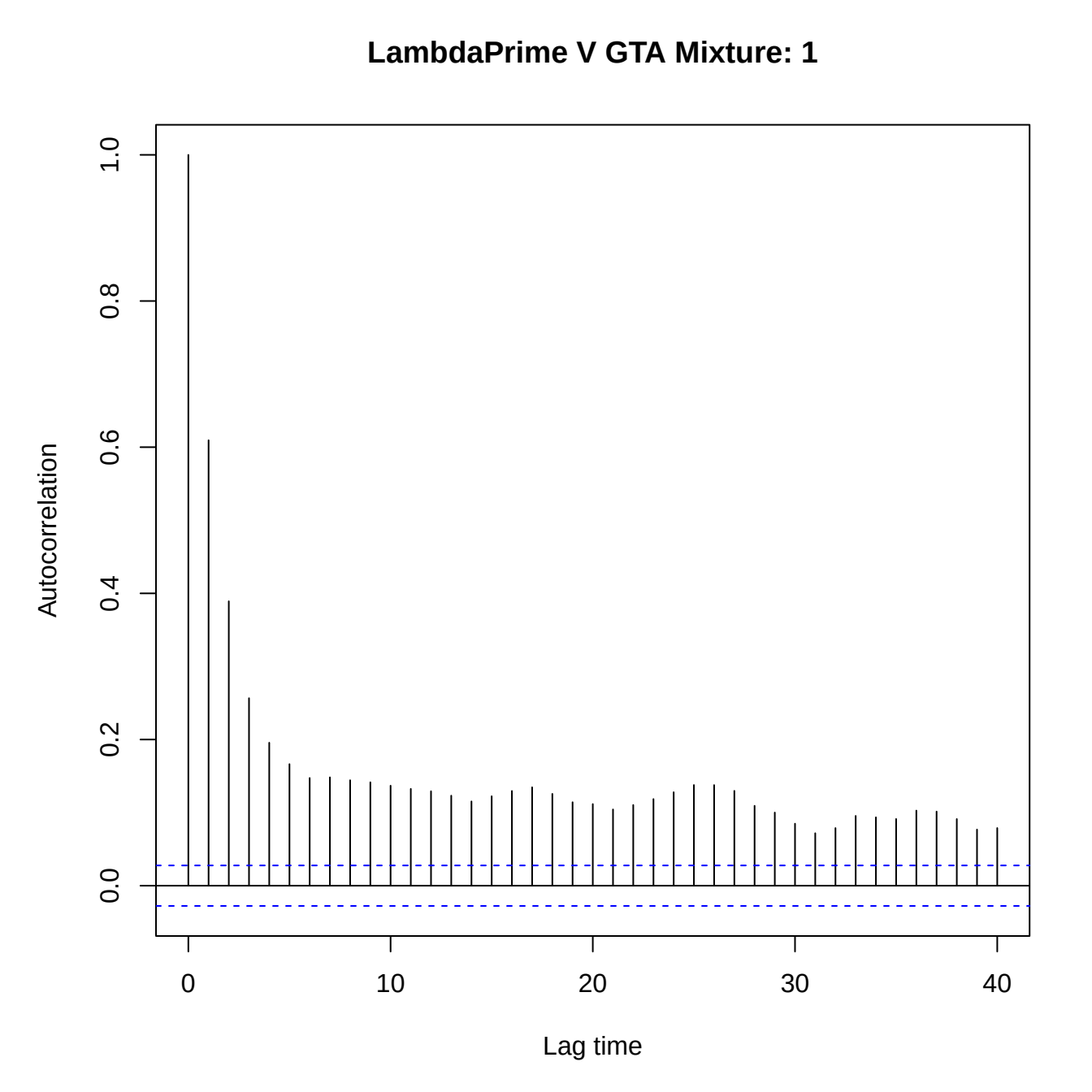
Lag time


LambdaPrime V GTA Mixture: 1
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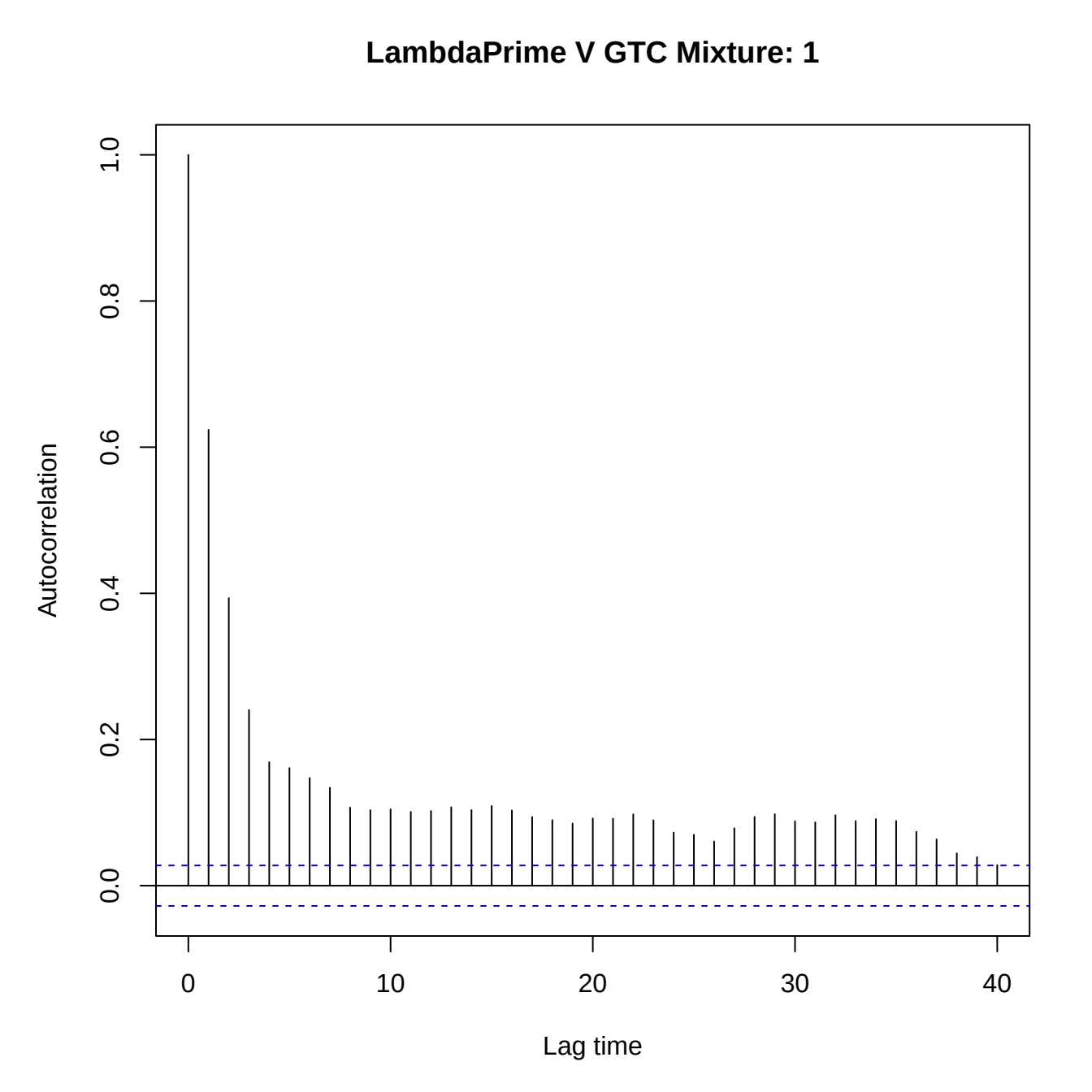
Lag time


LambdaPrime V GTC Mixture: 1
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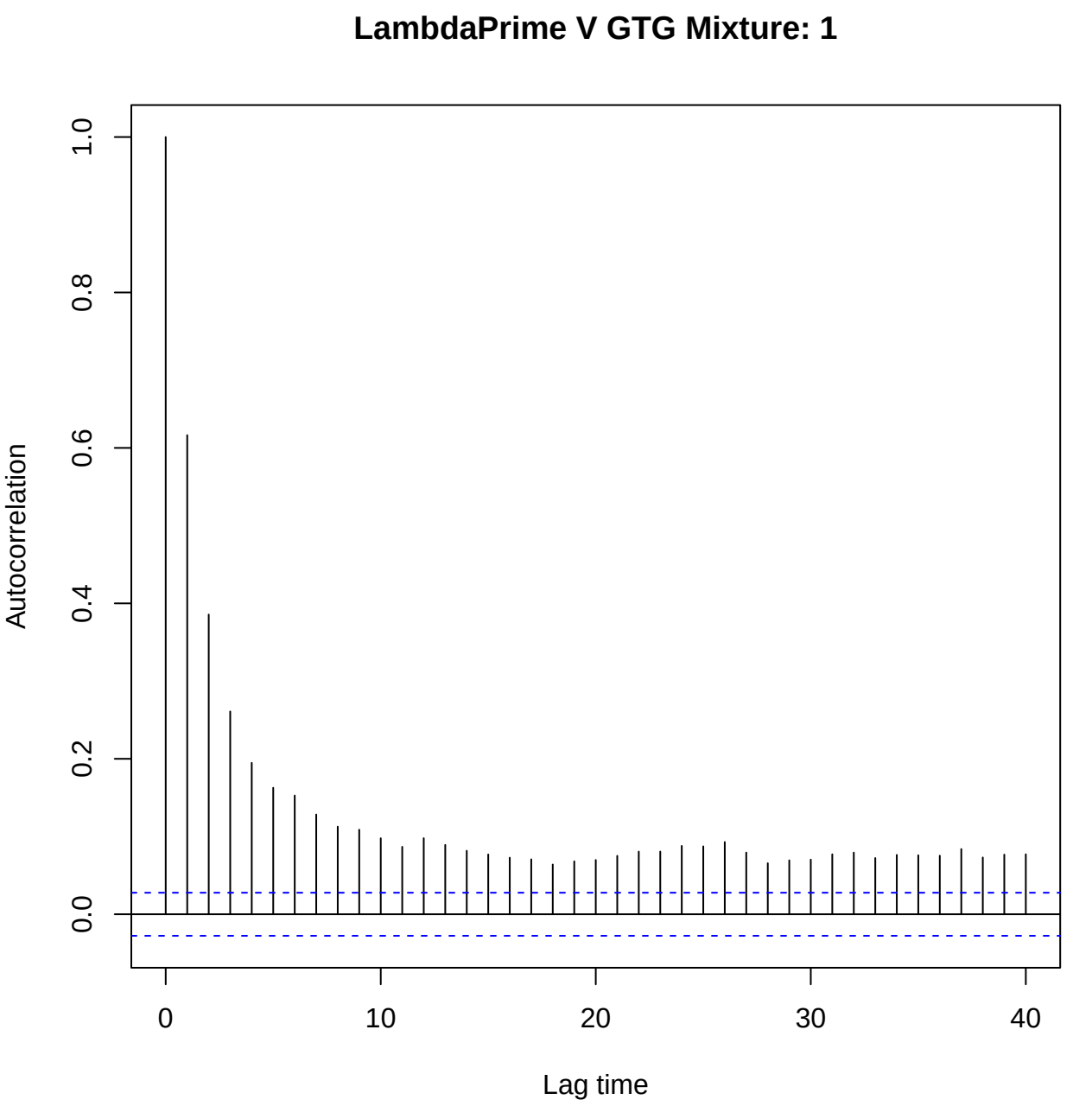
Lag time


LambdaPrime V GTG Mixture: 1
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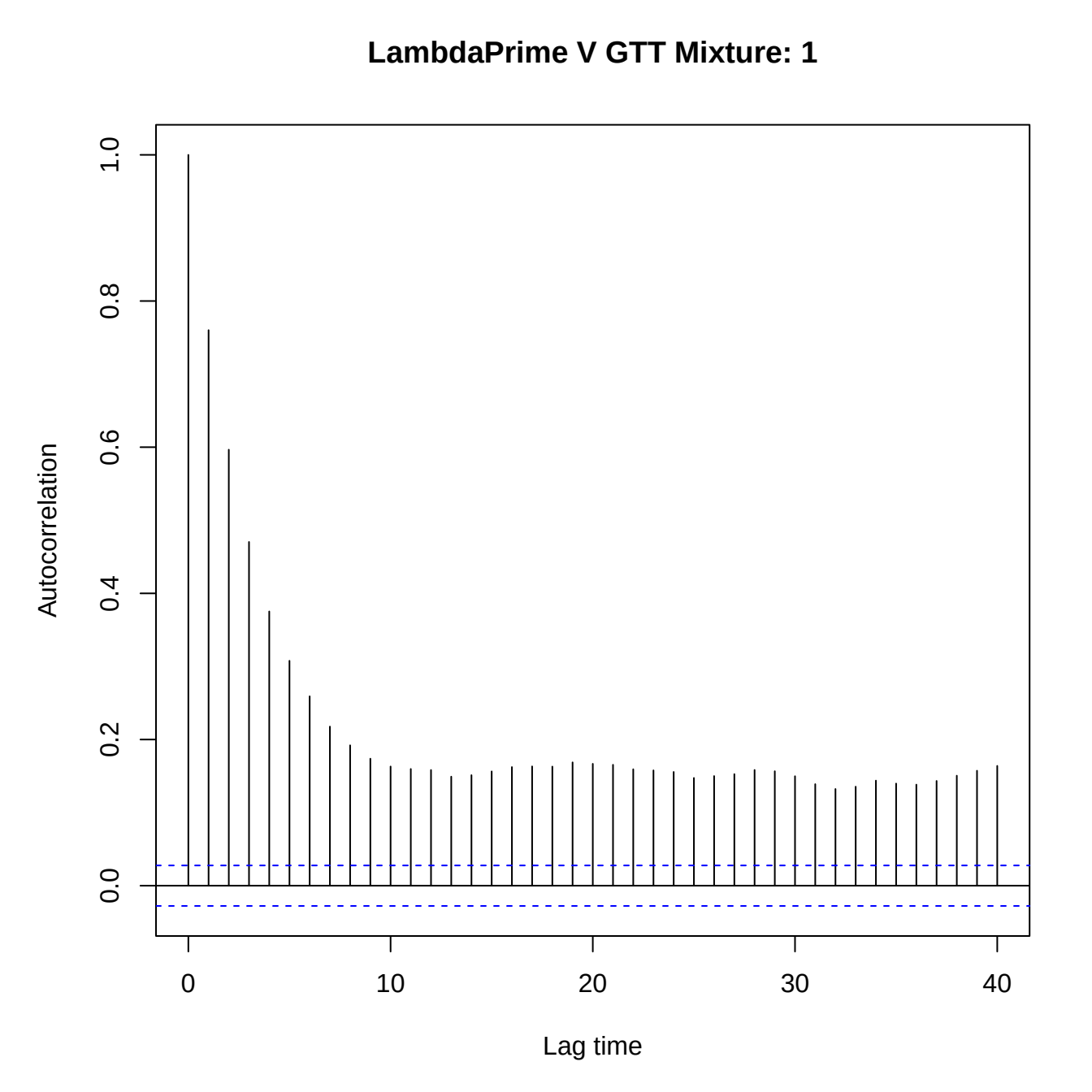
Lag time


LambdaPrime V GTT Mixture: 1
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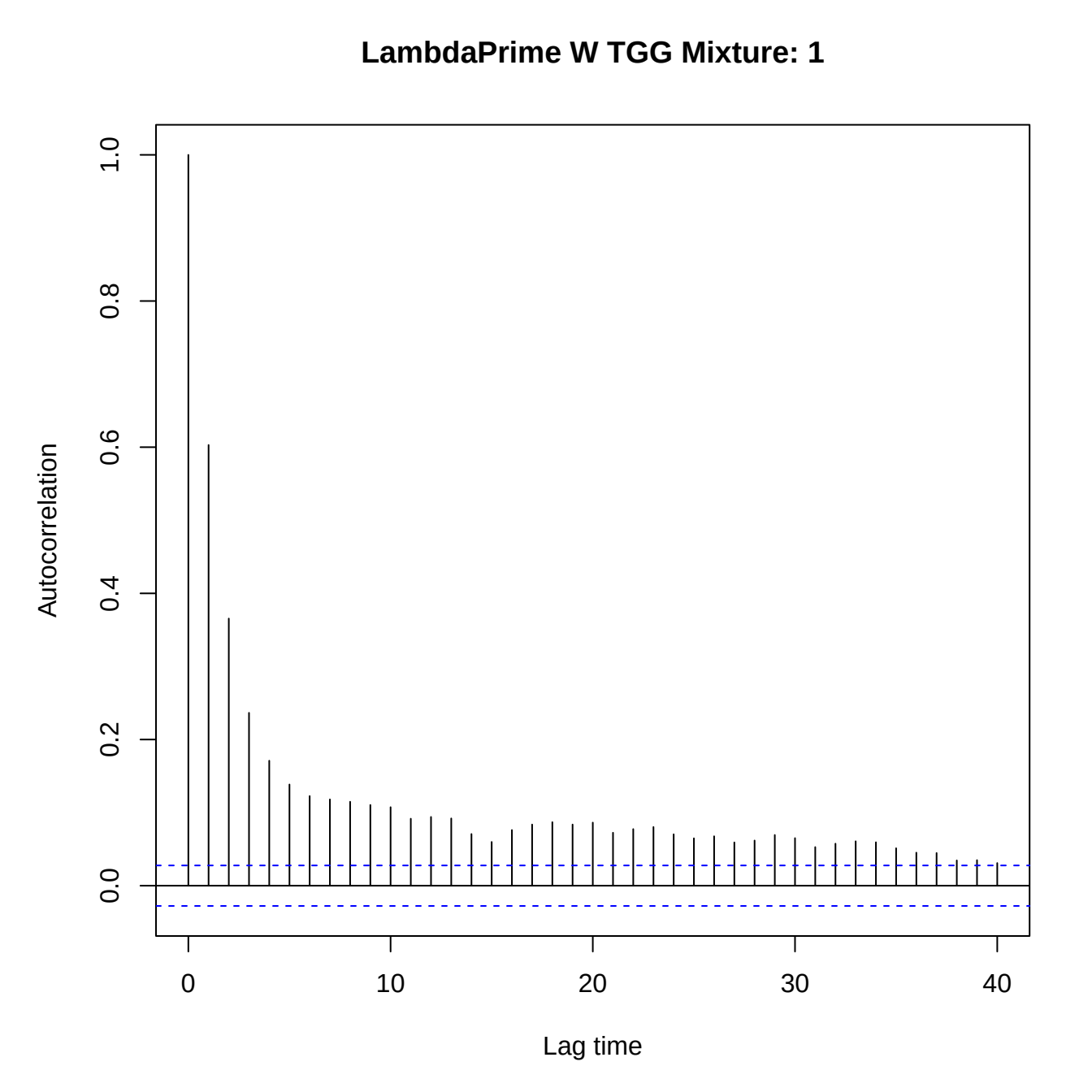
Lag time


LambdaPrime W TGG Mixture: 1
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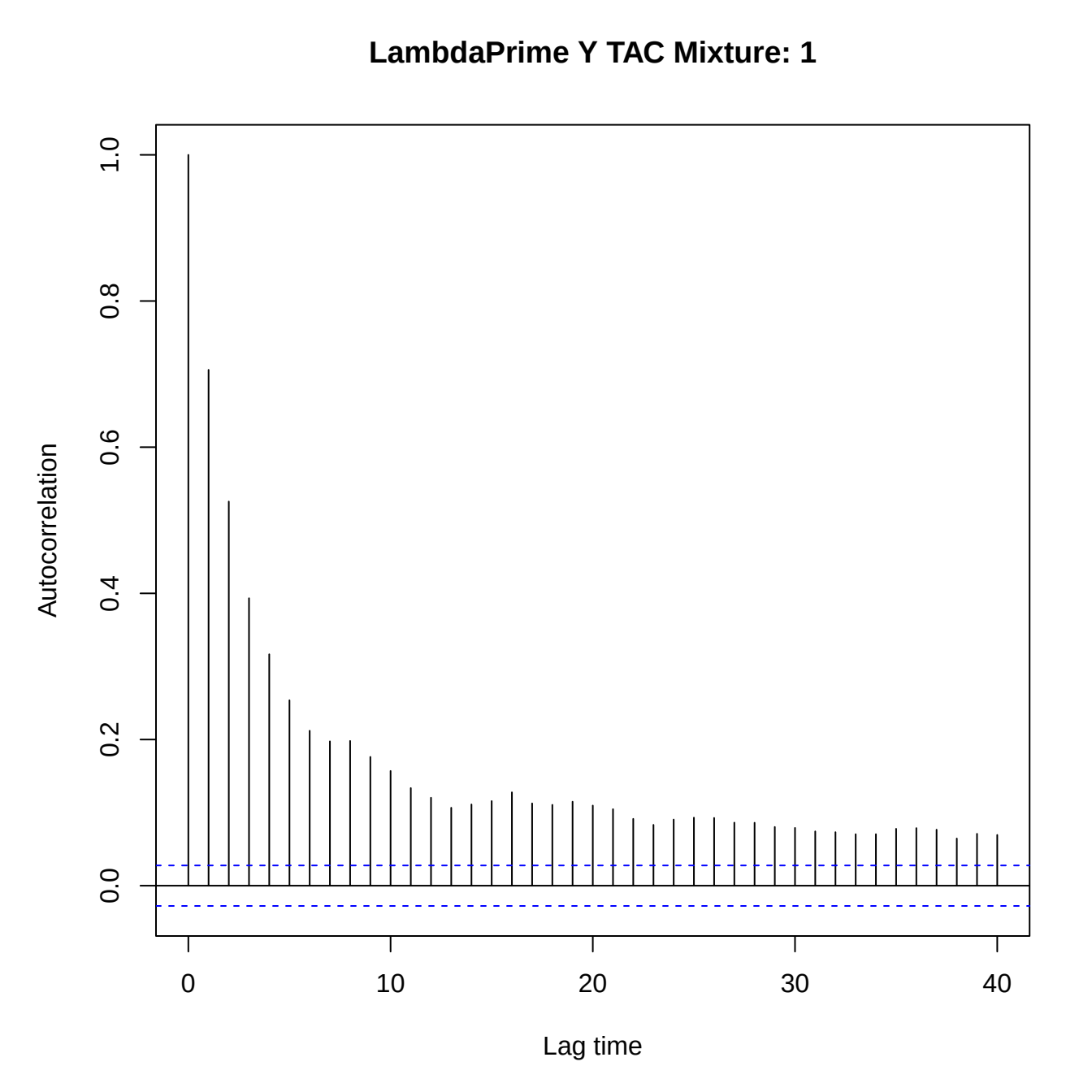
Lag time


LambdaPrime Y TAC Mixture: 1
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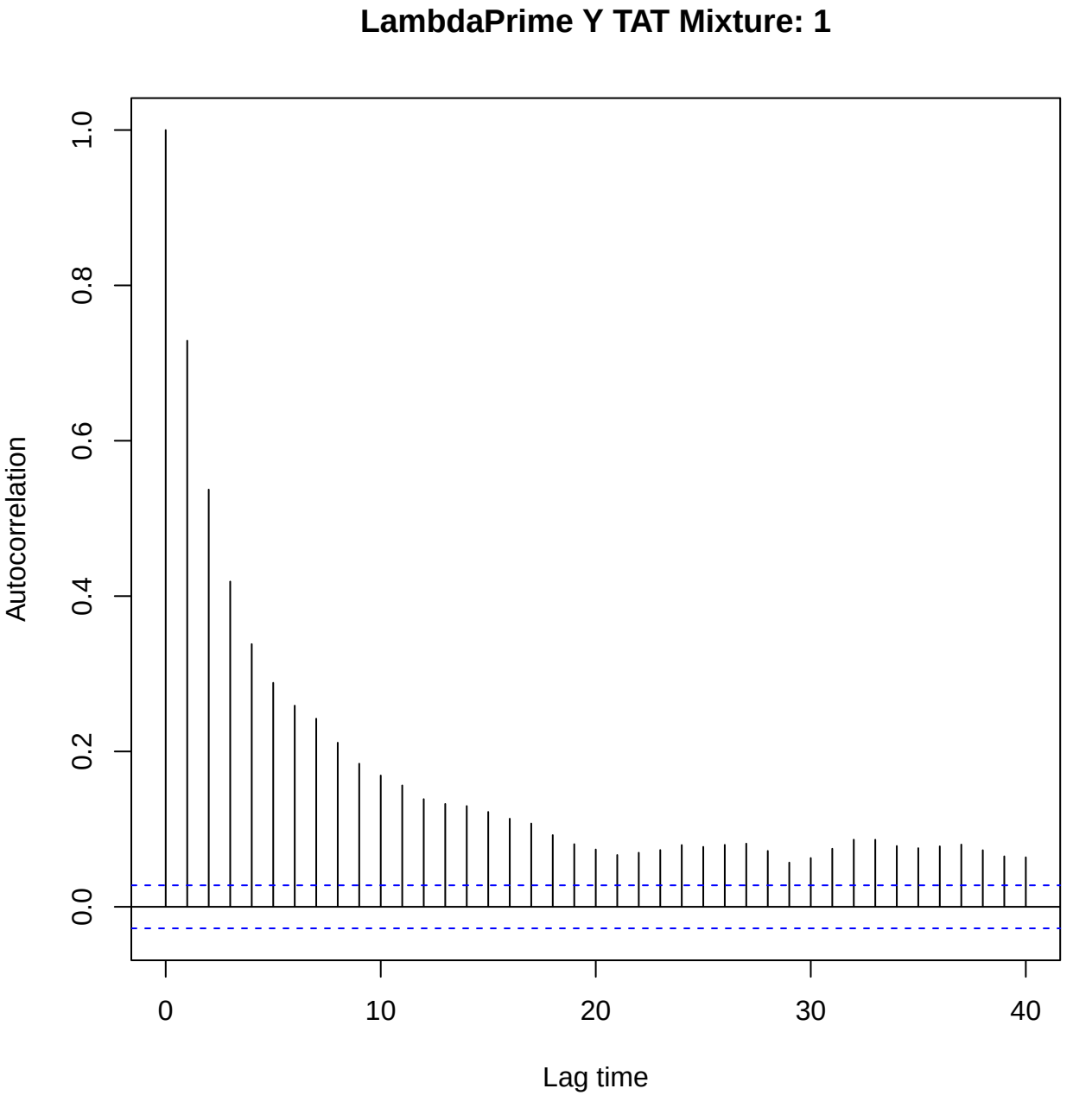
Lag time


LambdaPrime Y TAT Mixture: 1
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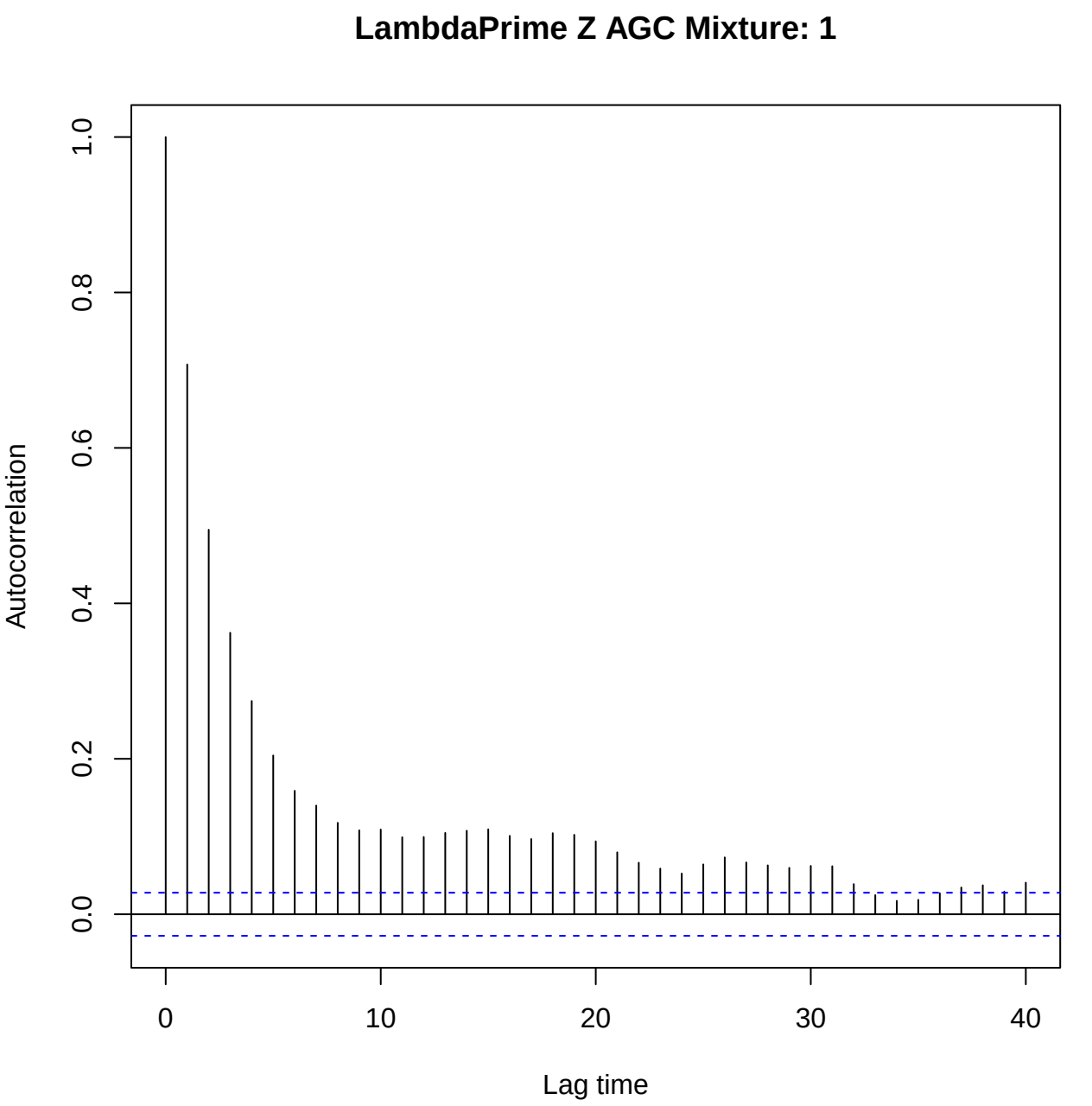
Lag time


LambdaPrime Z AGC Mixture: 1
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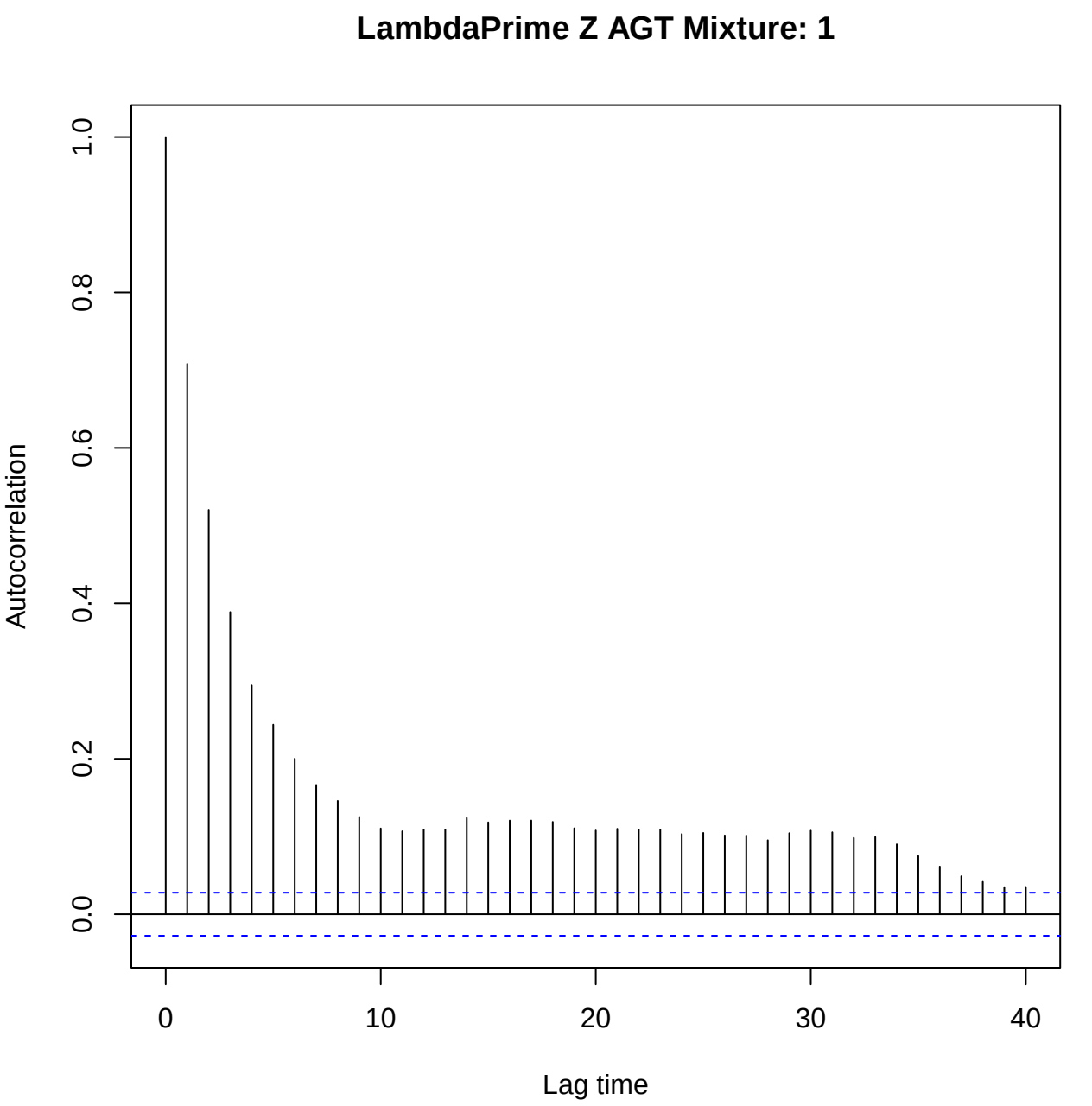
Lag time


LambdaPrime Z AGT Mixture: 1
Autocorrelation
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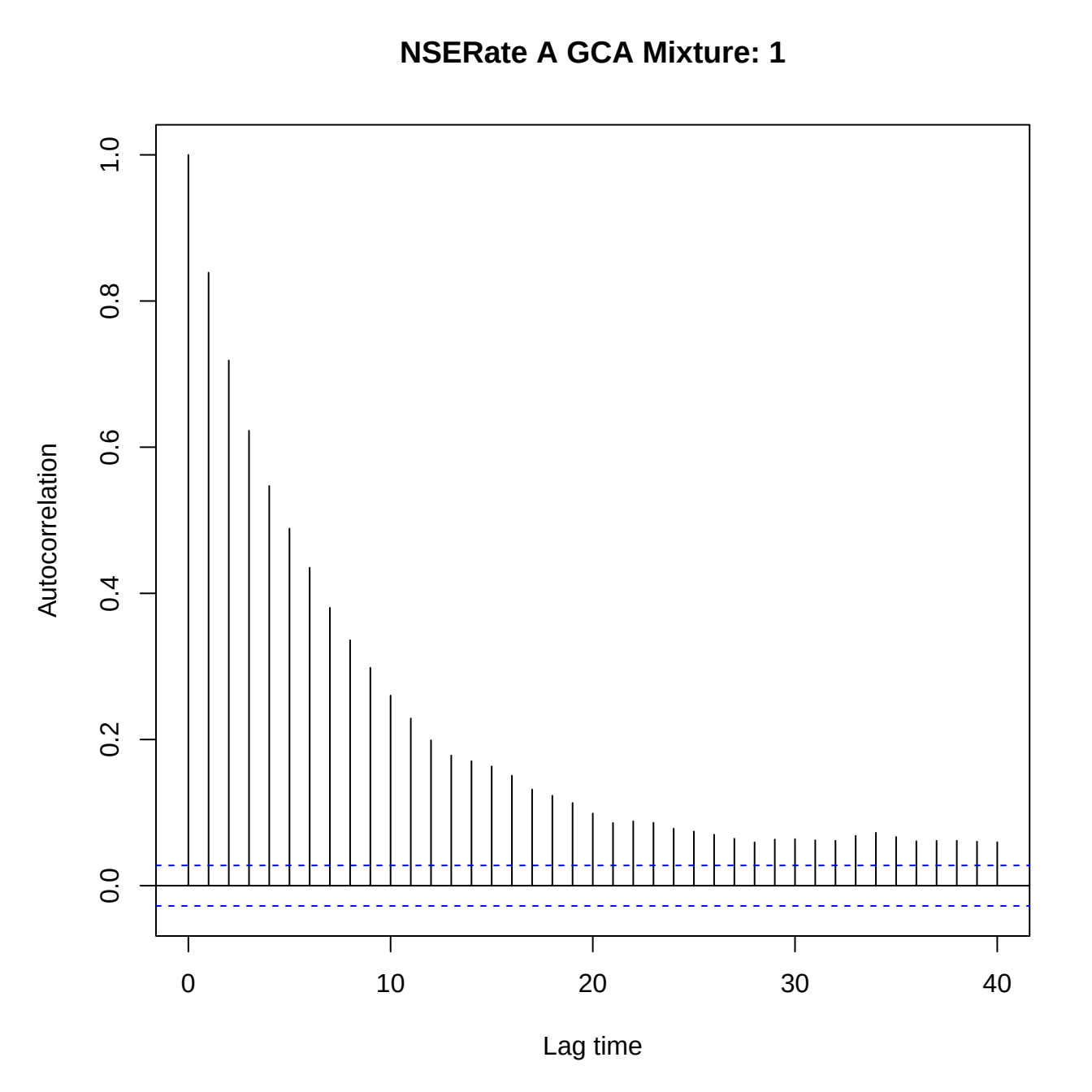
Lag time


NSERate A GCA Mixture: 1
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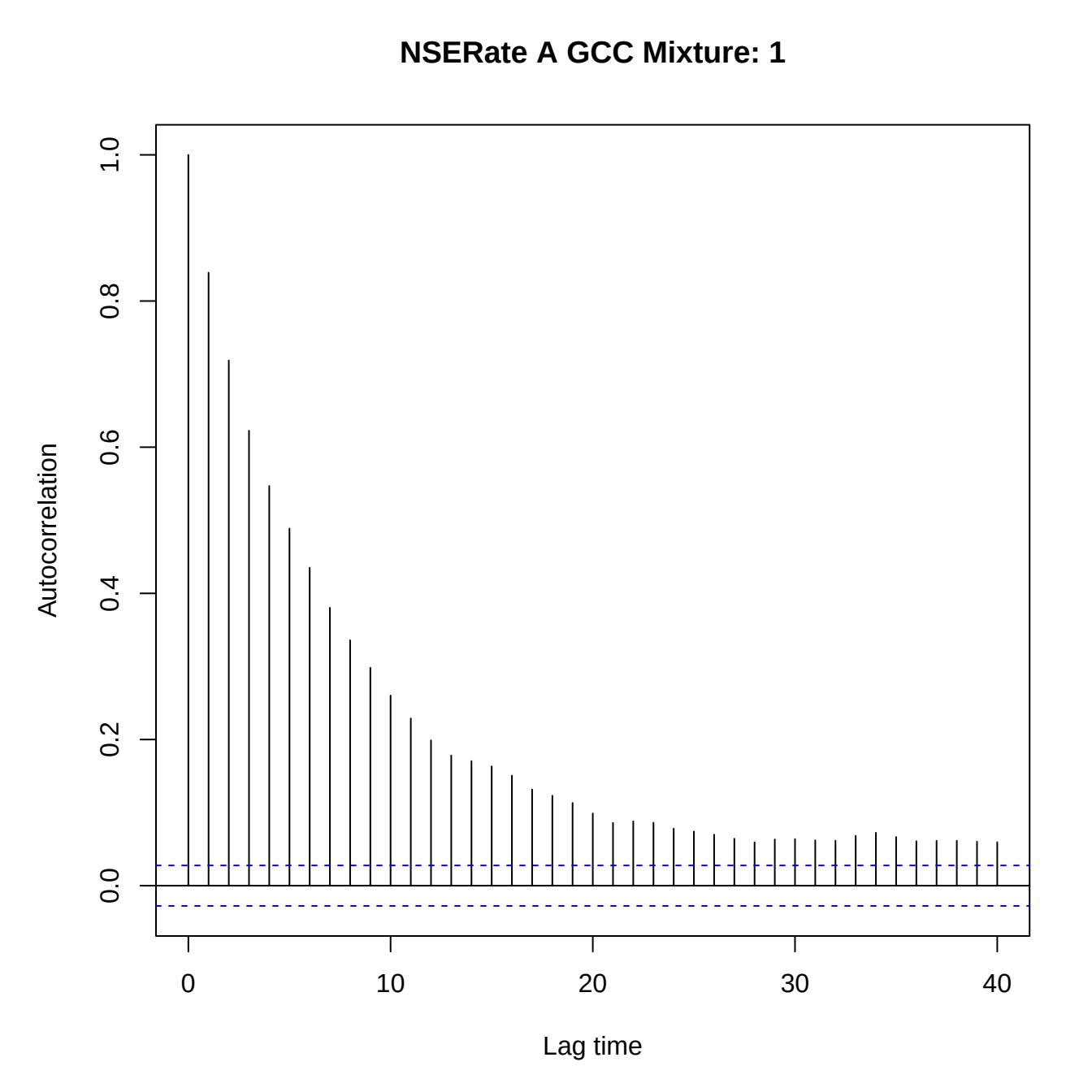
Lag time


NSERate A GCC Mixture: 1
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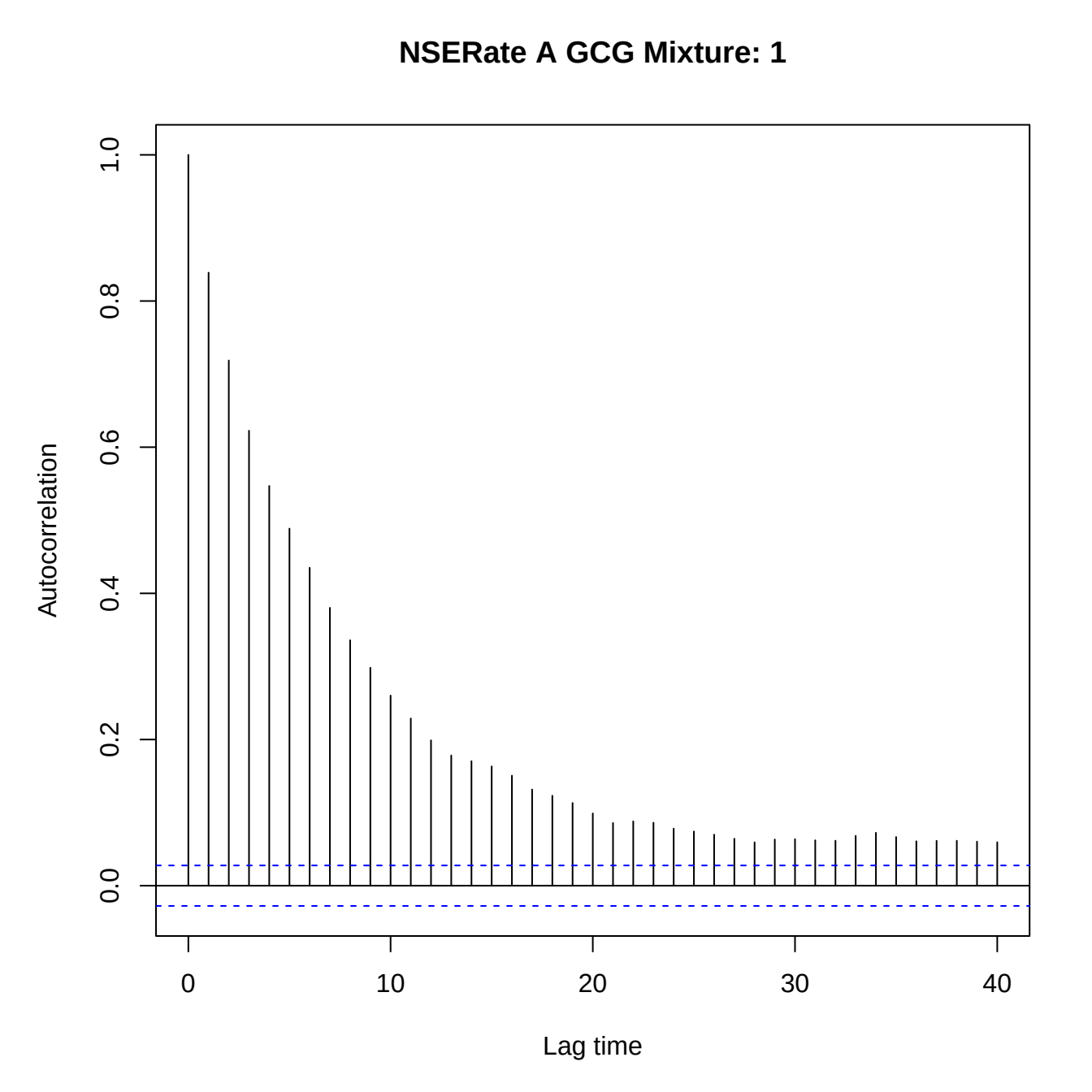
Lag time


NSERate A GCG Mixture: 1
Autocorrelation
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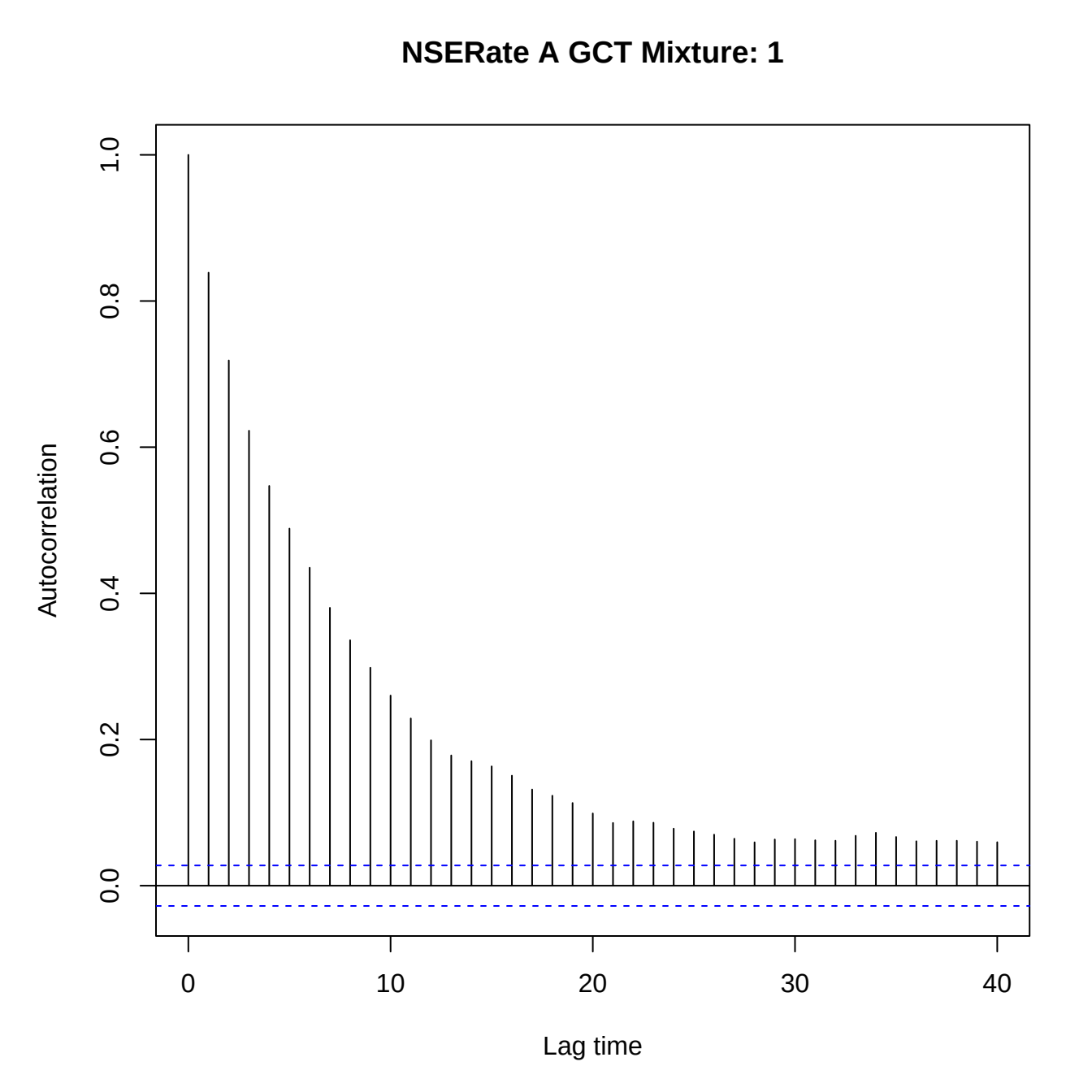
Lag time


NSERate A GCT Mixture: 1
Autocorrelation
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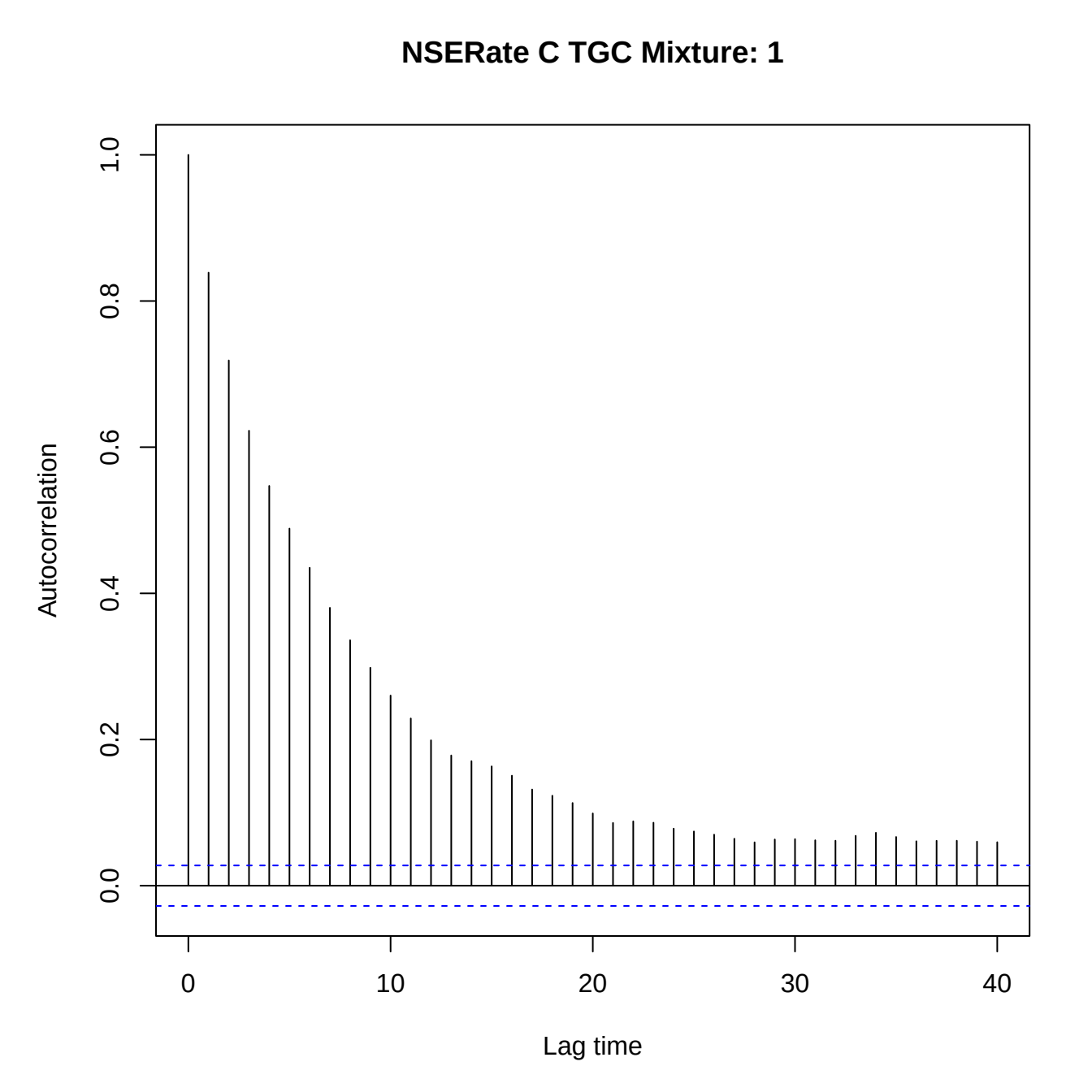
Lag time


NSERate C TGC Mixture: 1
Autocorrelation
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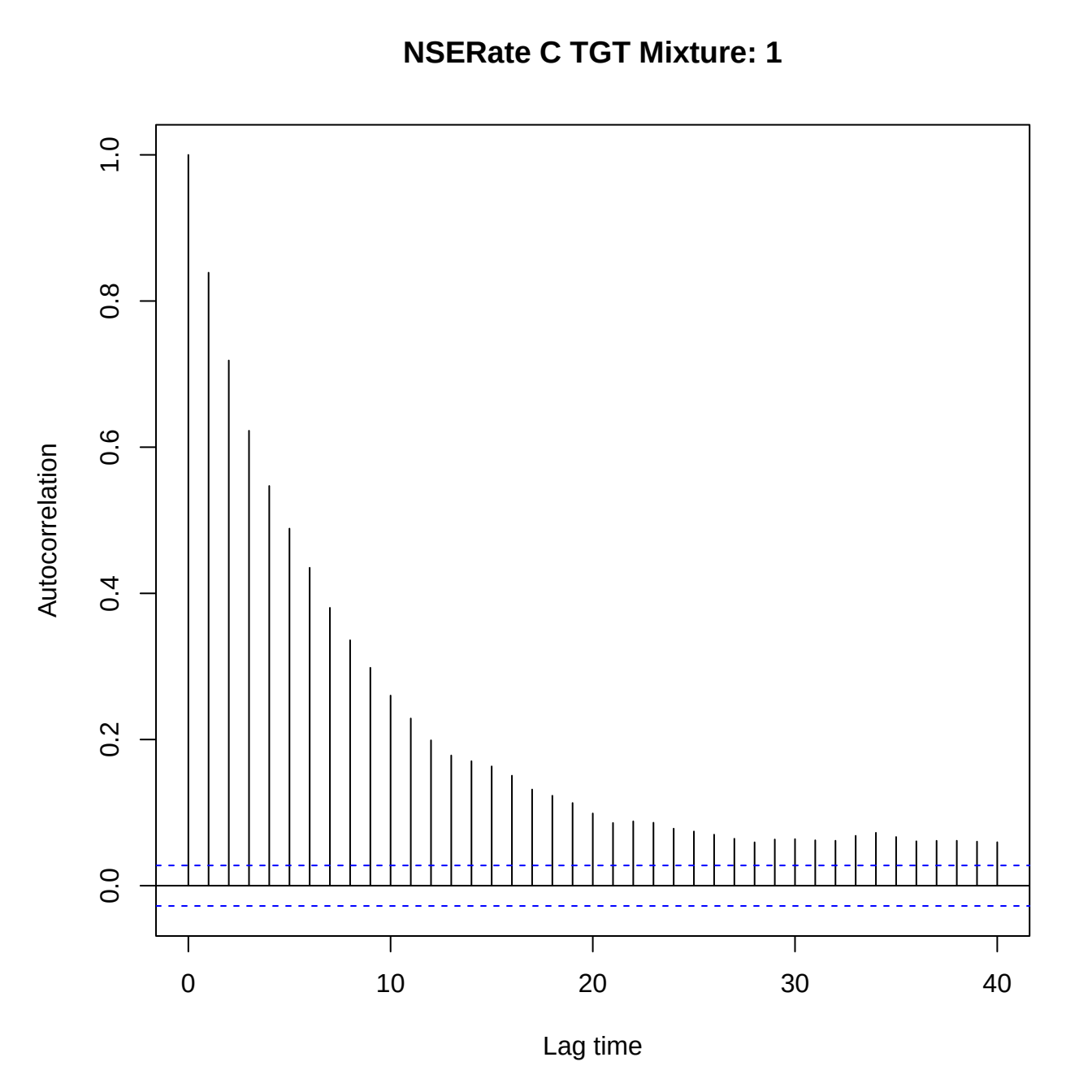
Lag time


NSERate C TGT Mixture: 1
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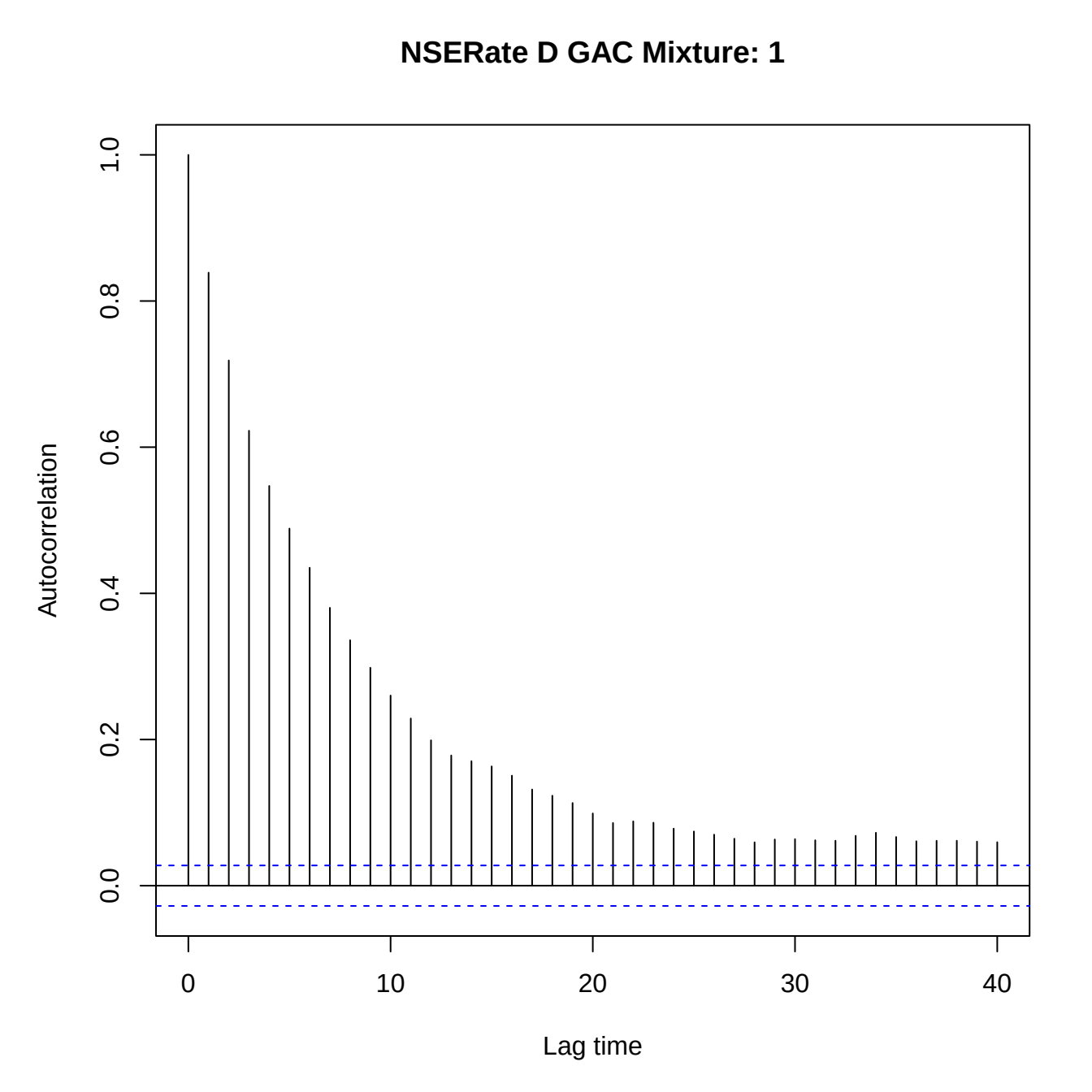
Lag time


NSERate D GAC Mixture: 1
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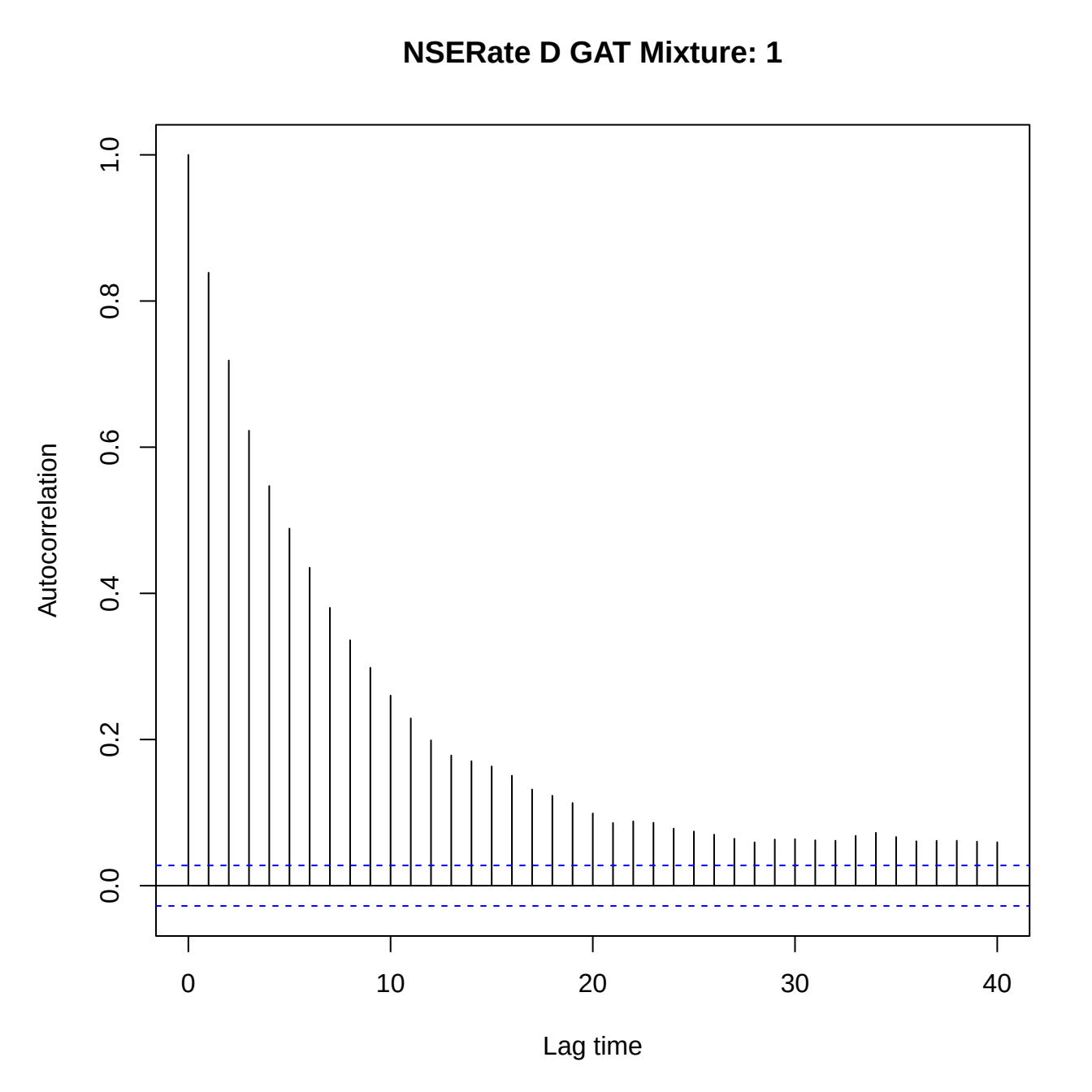
Lag time


NSERate D GAT Mixture: 1
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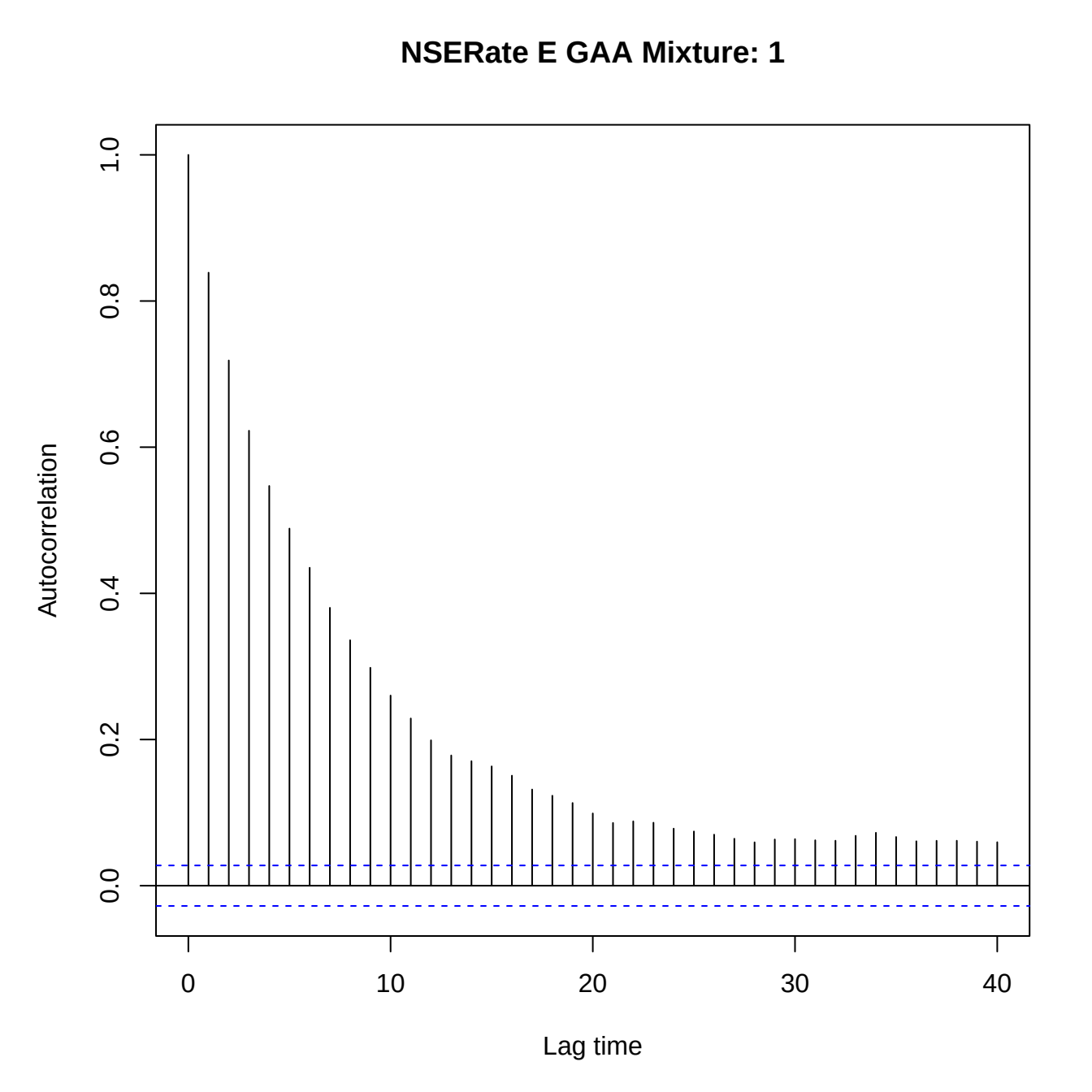
Lag time


NSERate E GAA Mixture: 1
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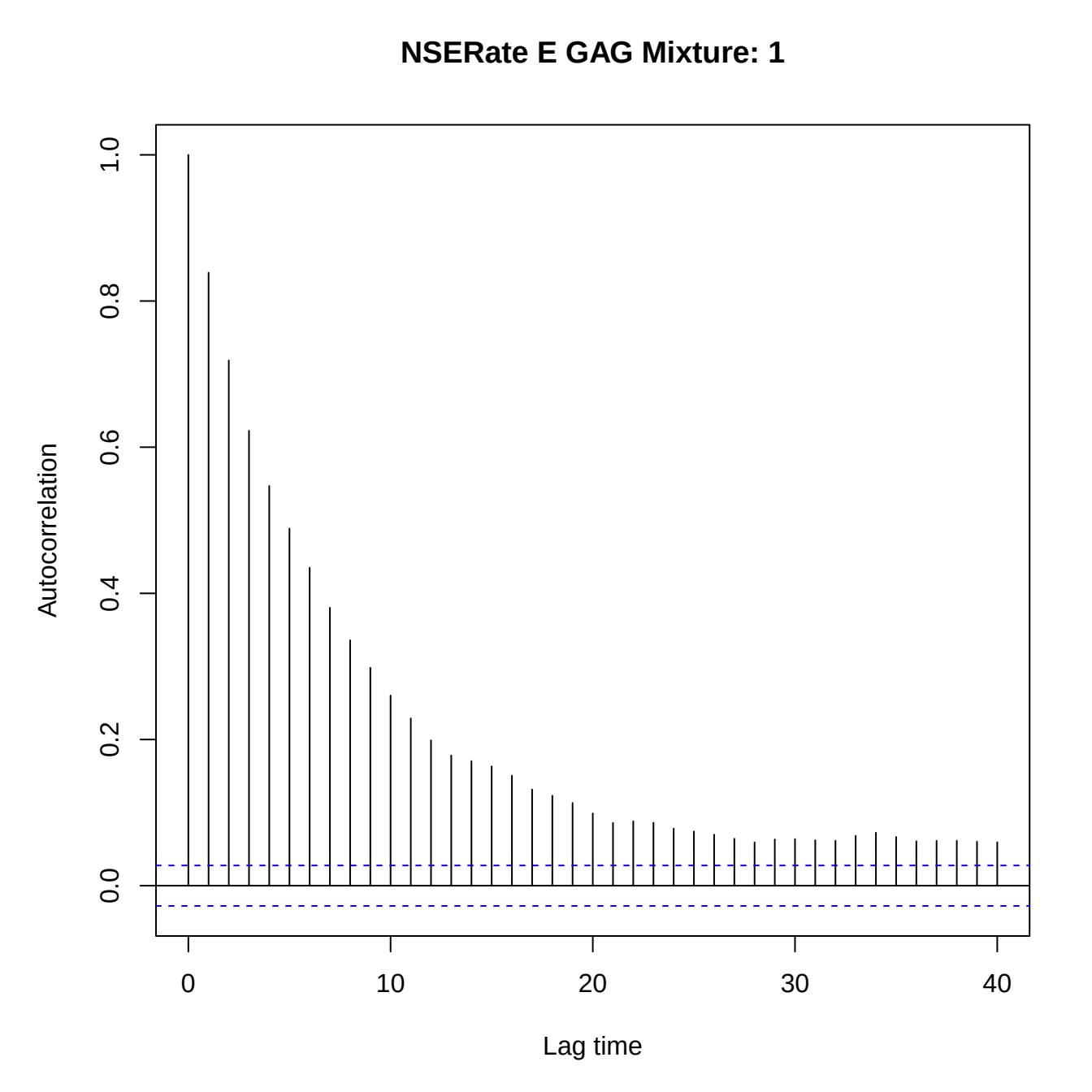
Lag time


NSERate E GAG Mixture: 1
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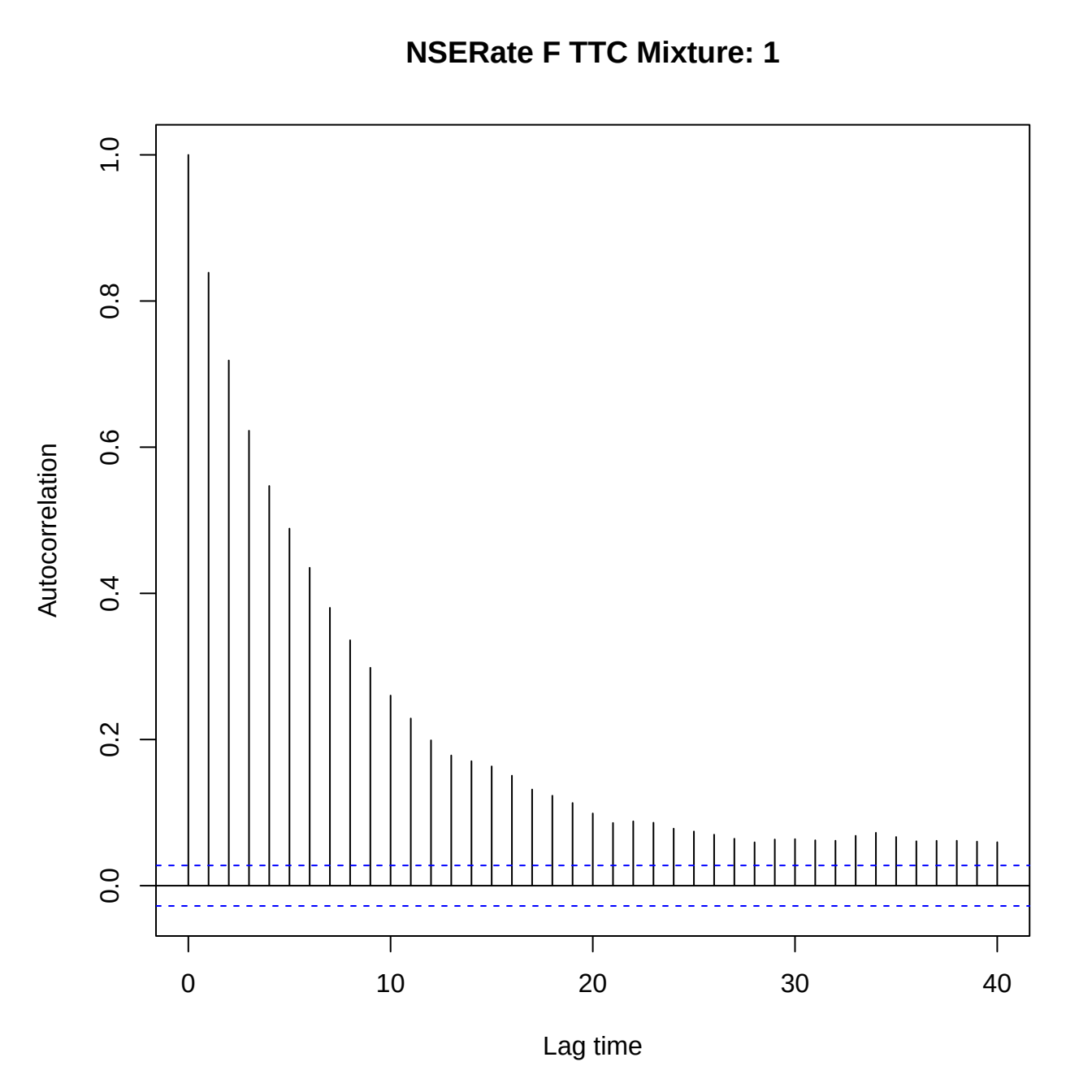
Lag time


NSERate F TTC Mixture: 1
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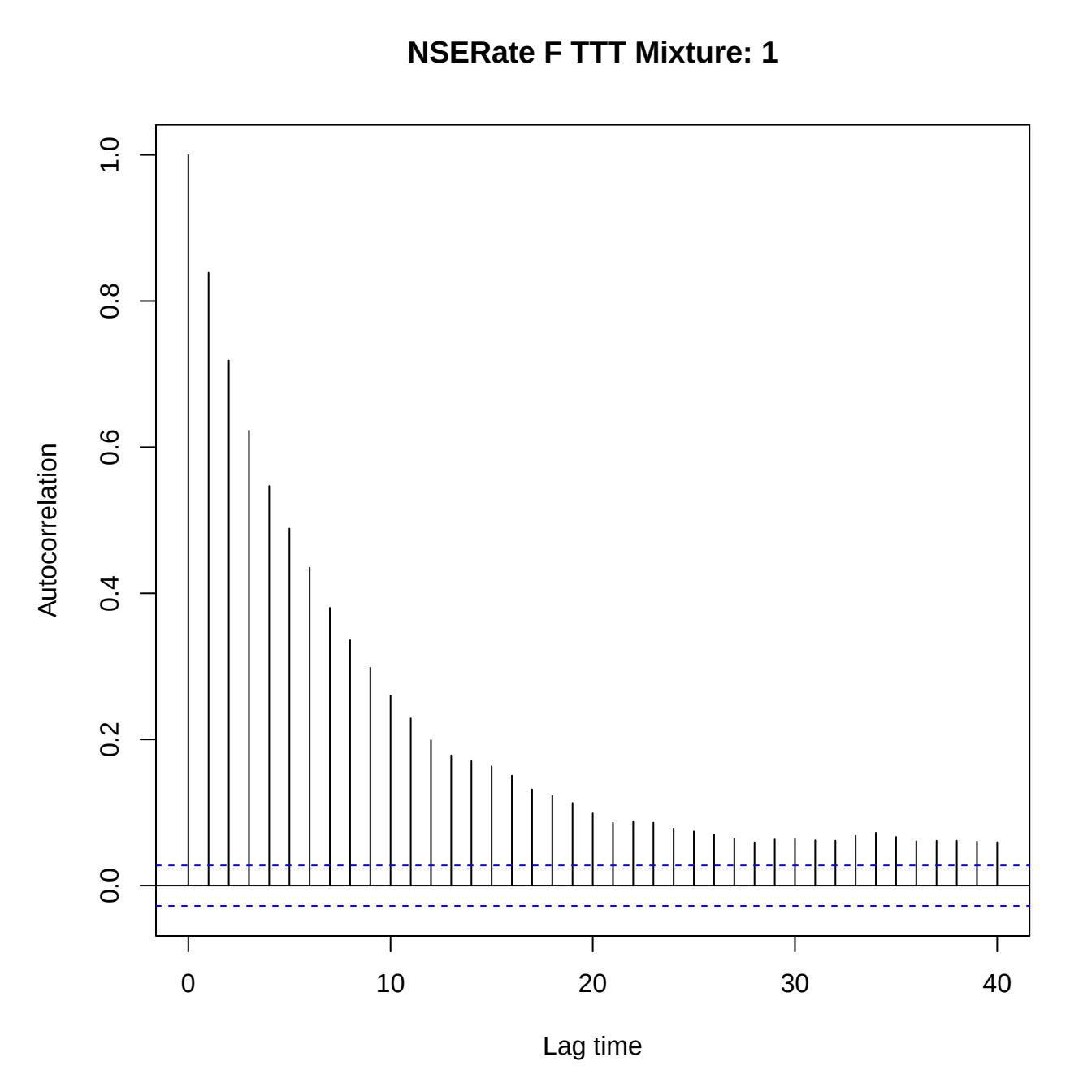
Lag time


NSERate F TTT Mixture: 1
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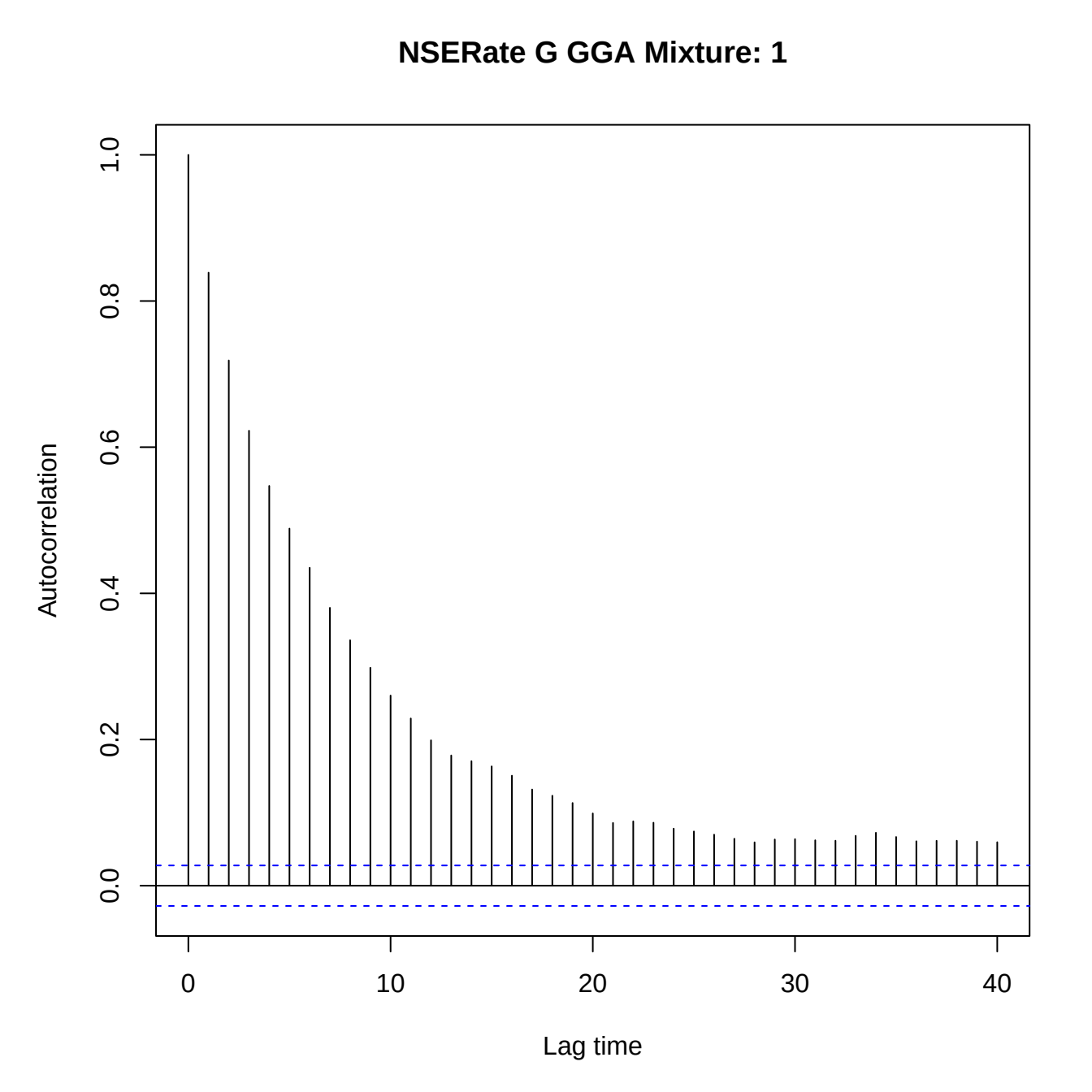
Lag time


NSERate G GGA Mixture: 1
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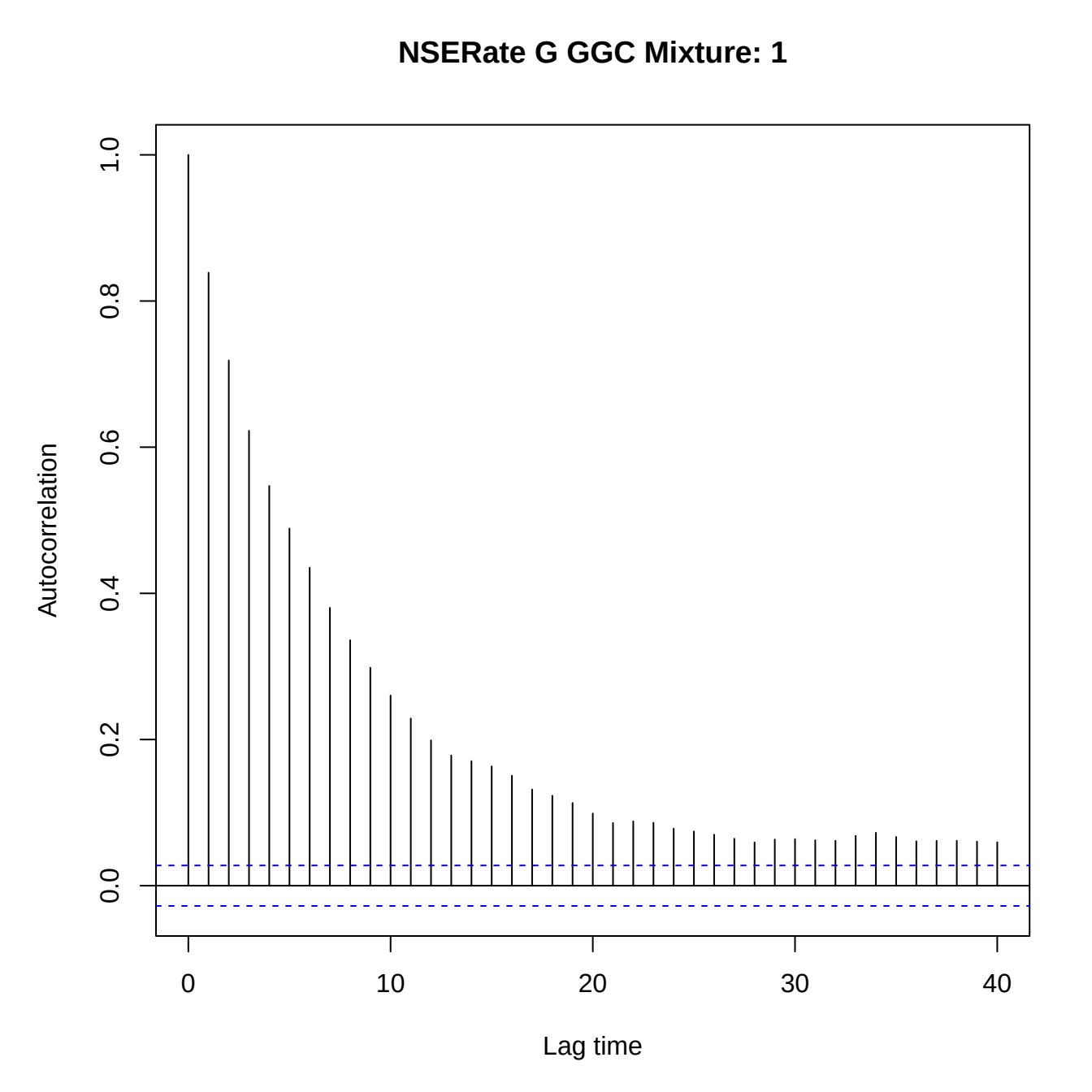
Lag time


NSERate G GGC Mixture: 1
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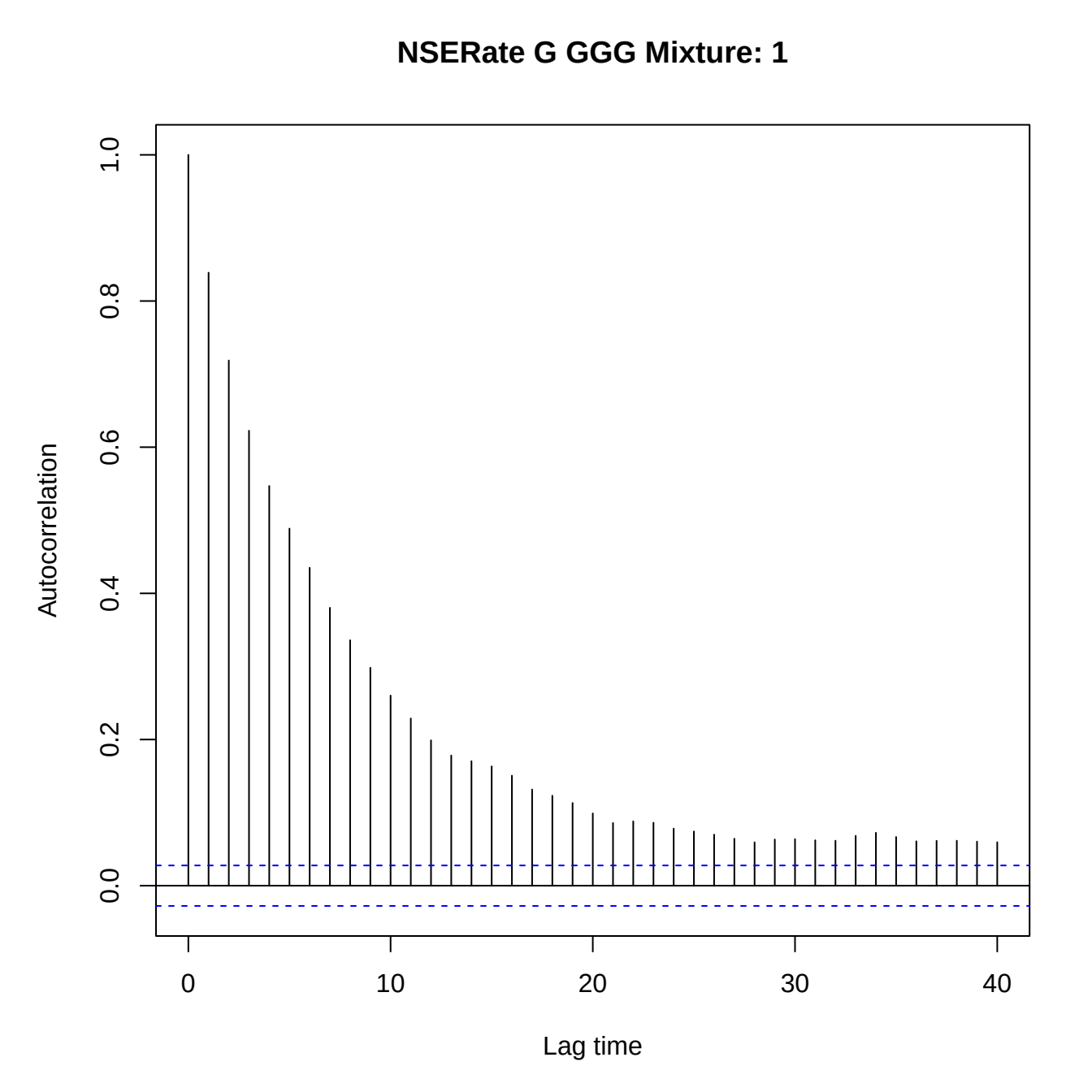
Lag time


NSERate G GGG Mixture: 1
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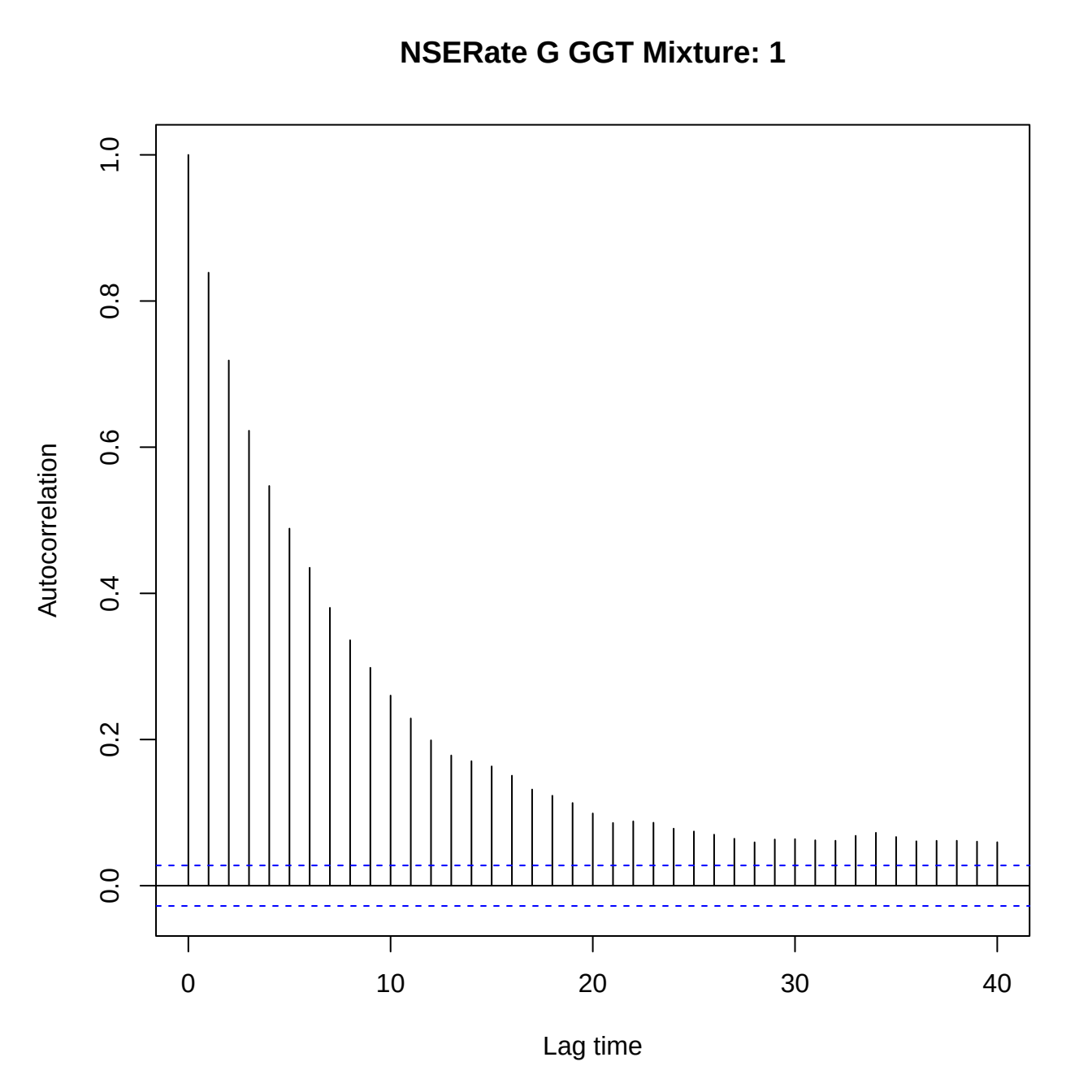
Lag time


NSERate G GGT Mixture: 1
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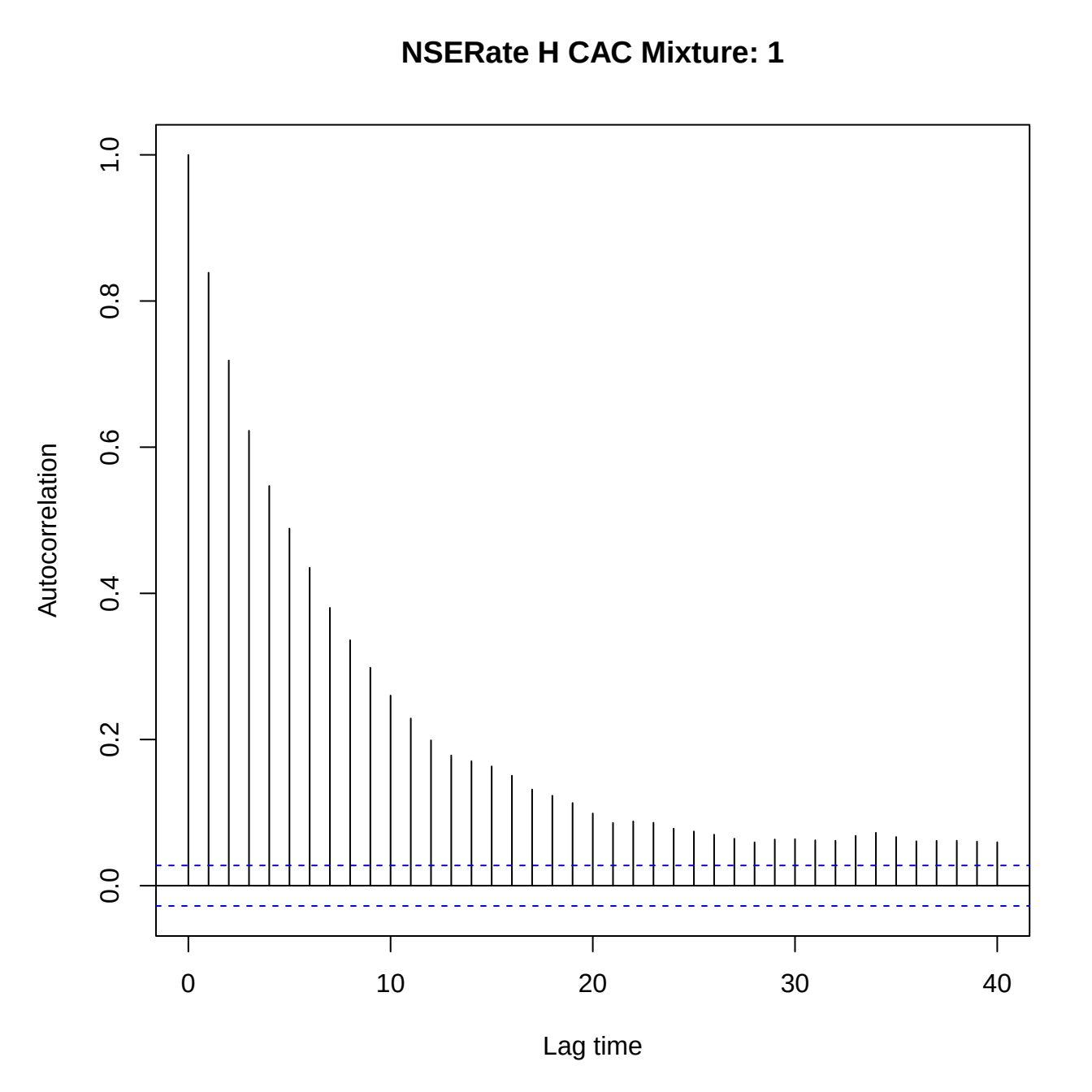
Lag time


NSERate H CAC Mixture: 1
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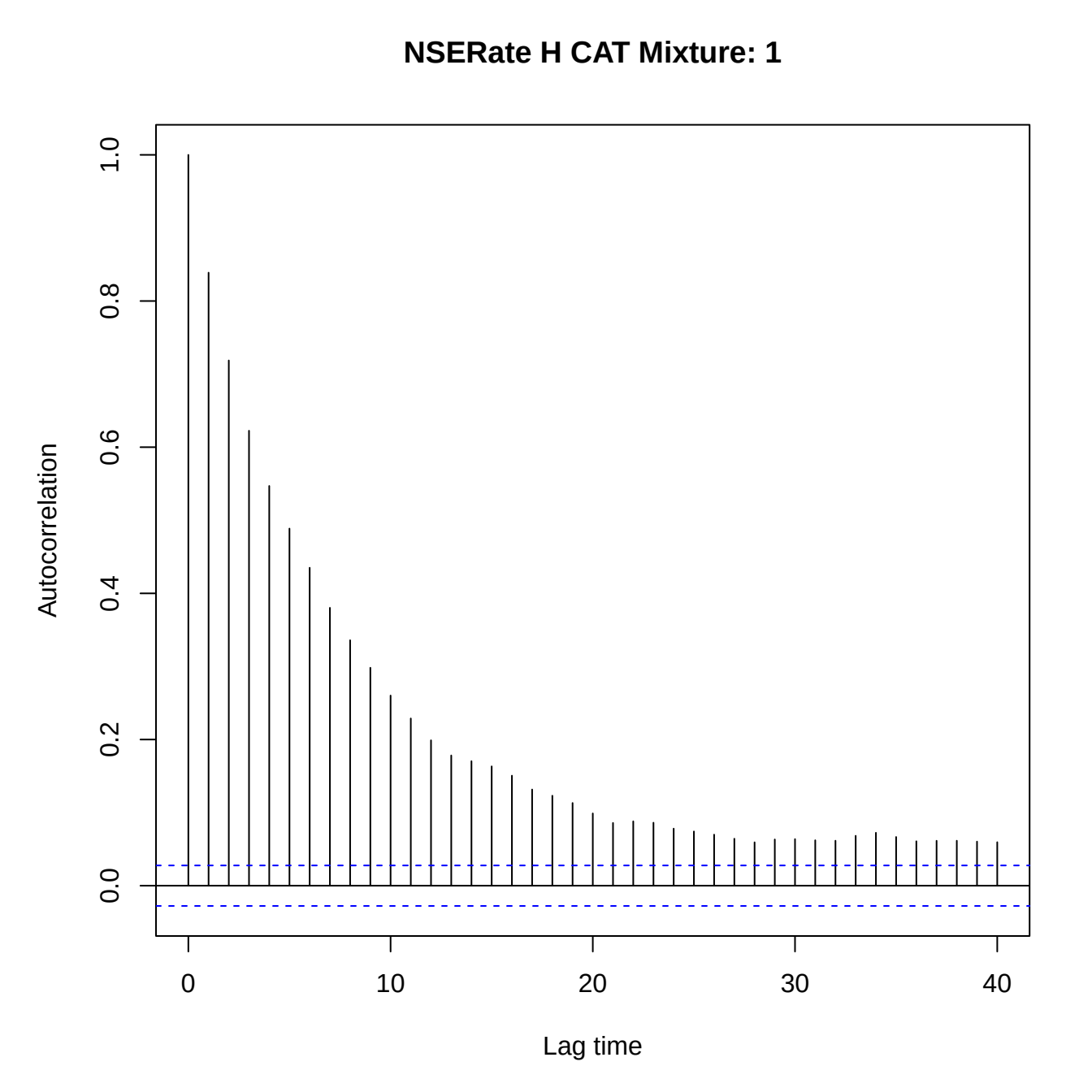
Lag time


NSERate H CAT Mixture: 1
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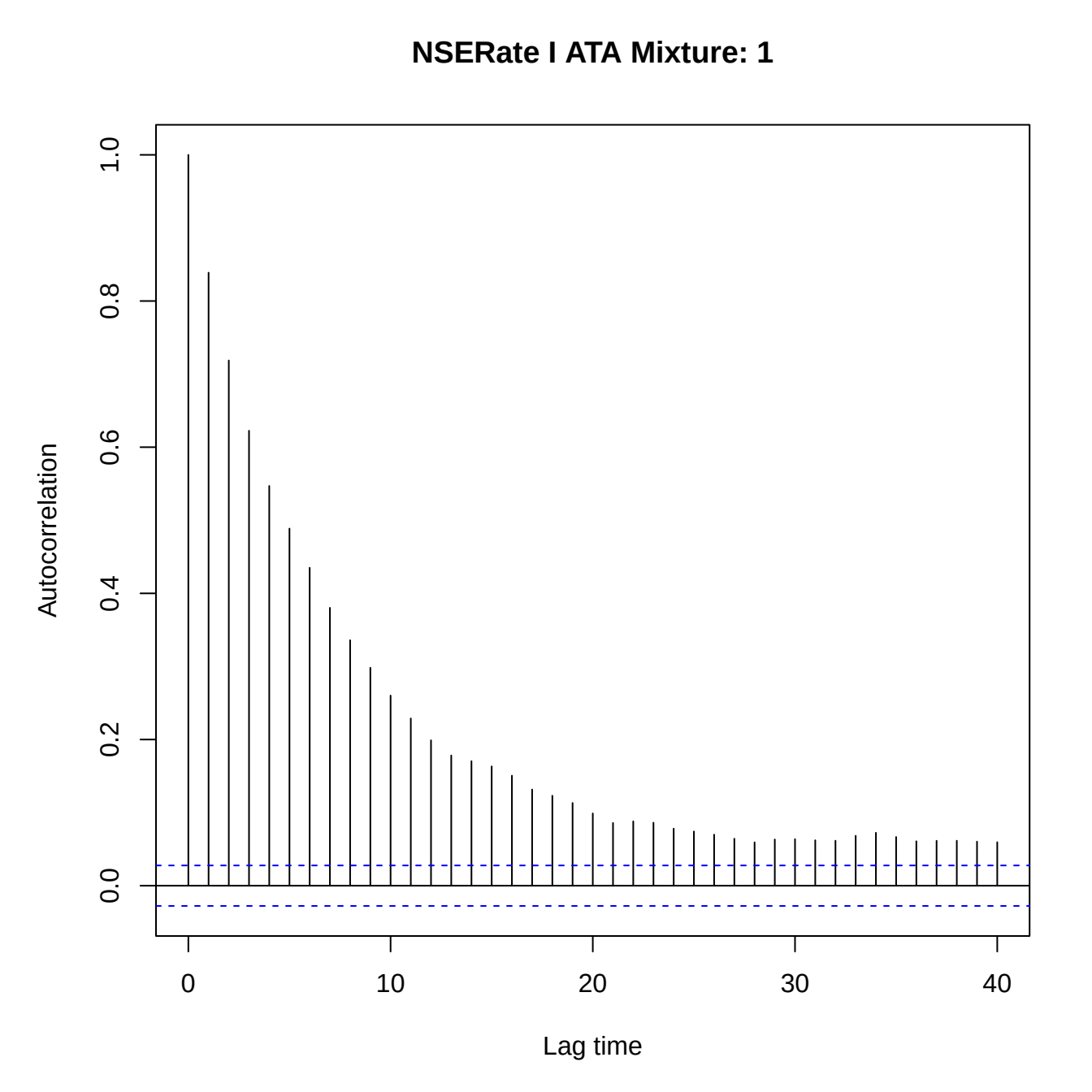
Lag time


NSERate I ATA Mixture: 1
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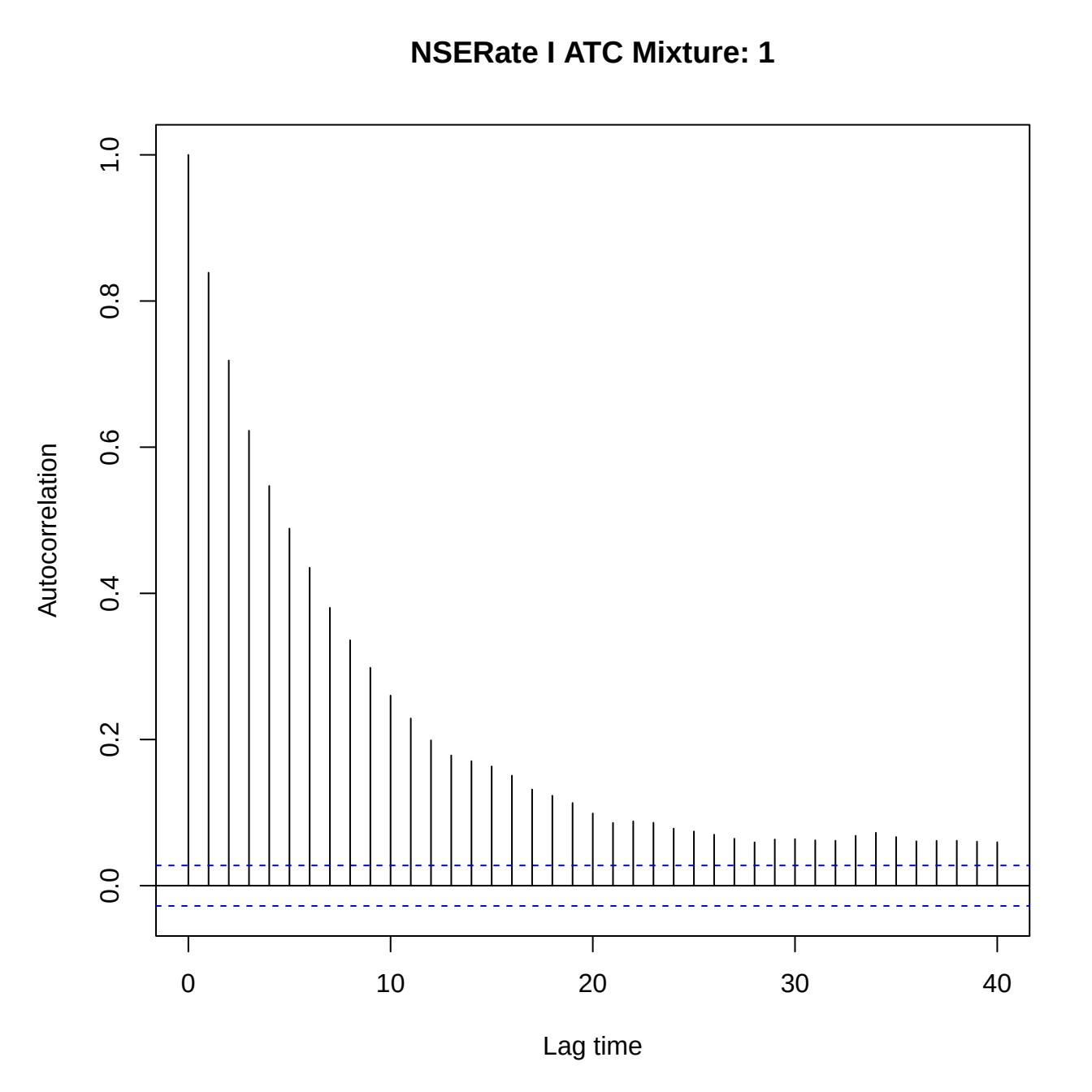
Lag time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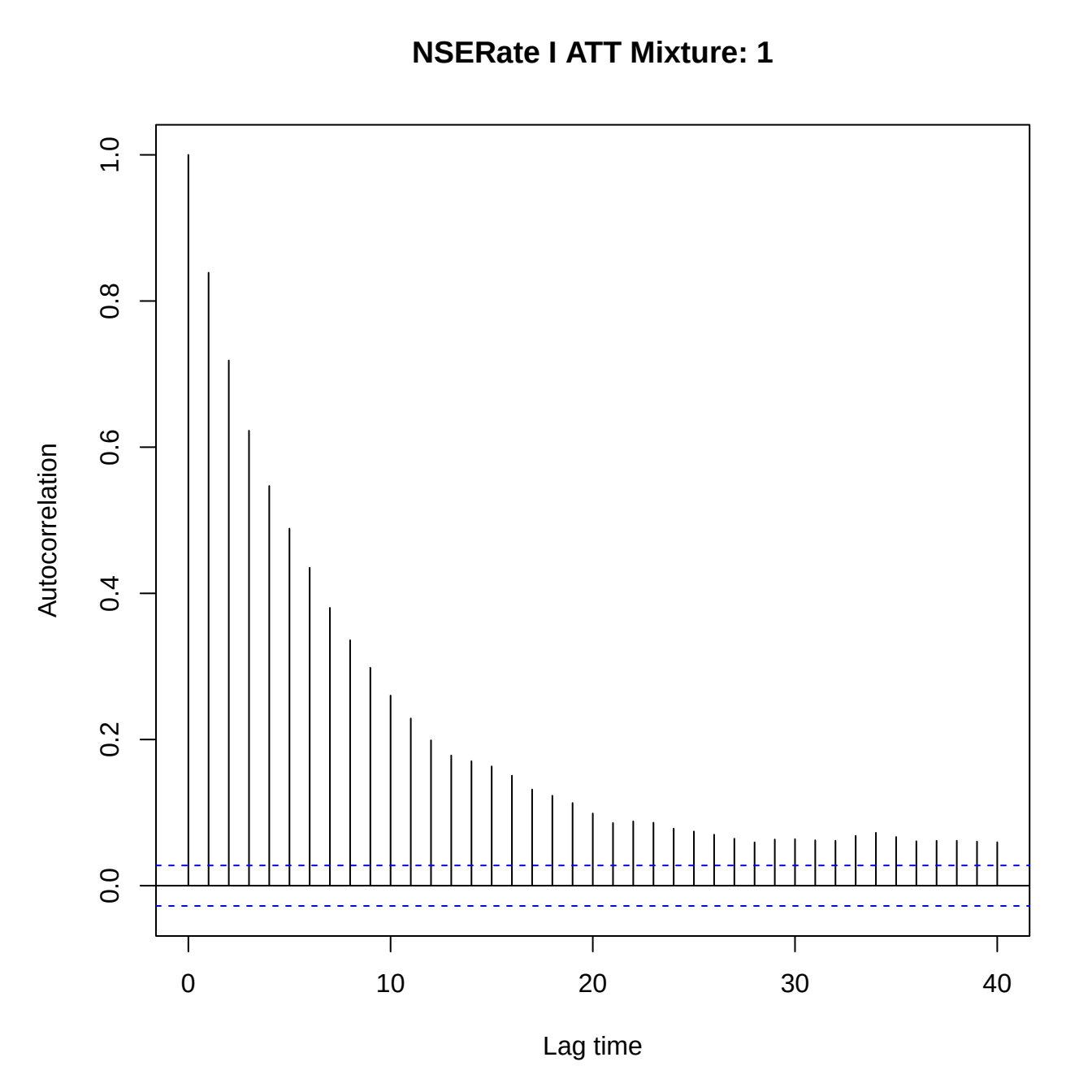
Lag time


NSERate I ATT Mixture: 1
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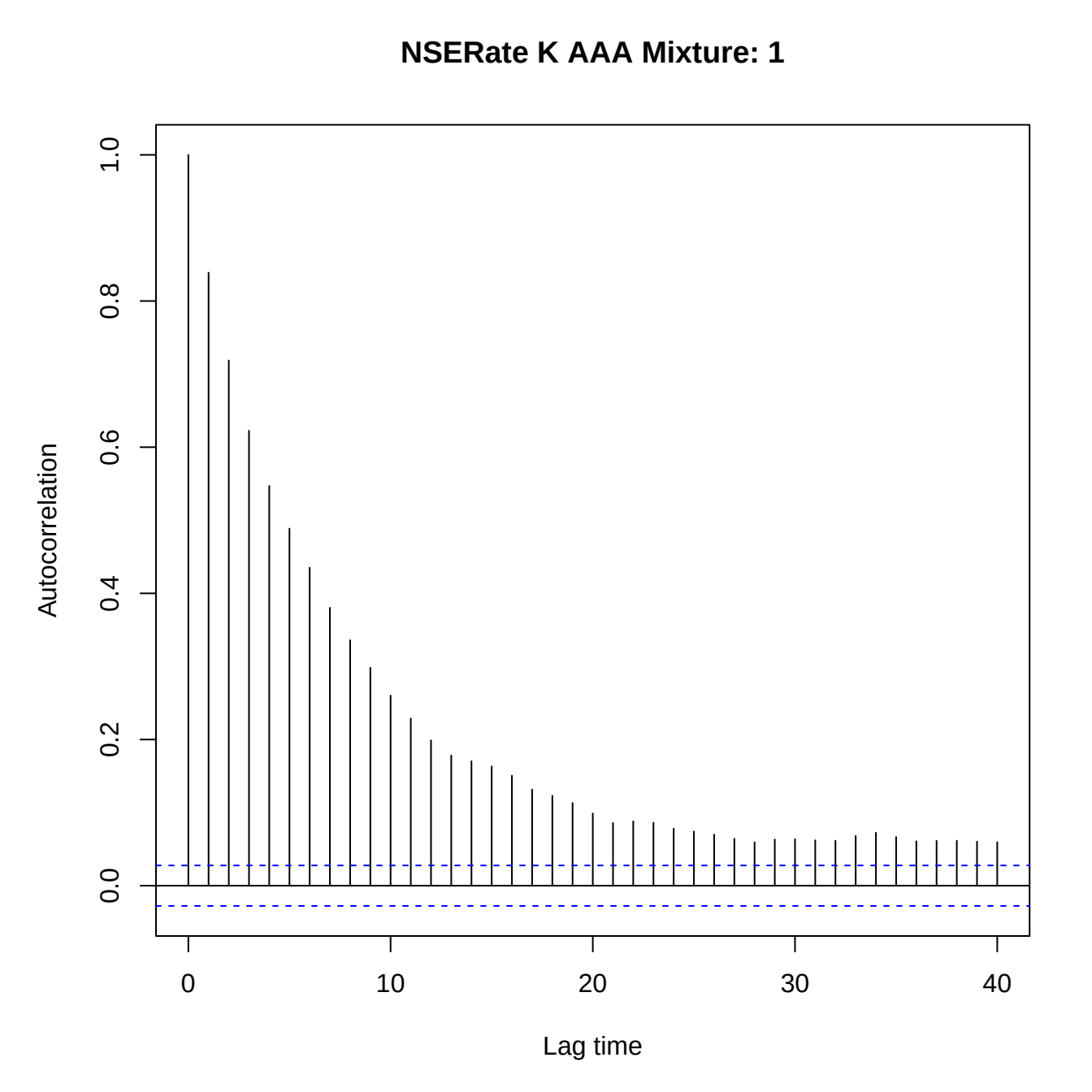
Lag time


NSERate K AAA Mixture: 1
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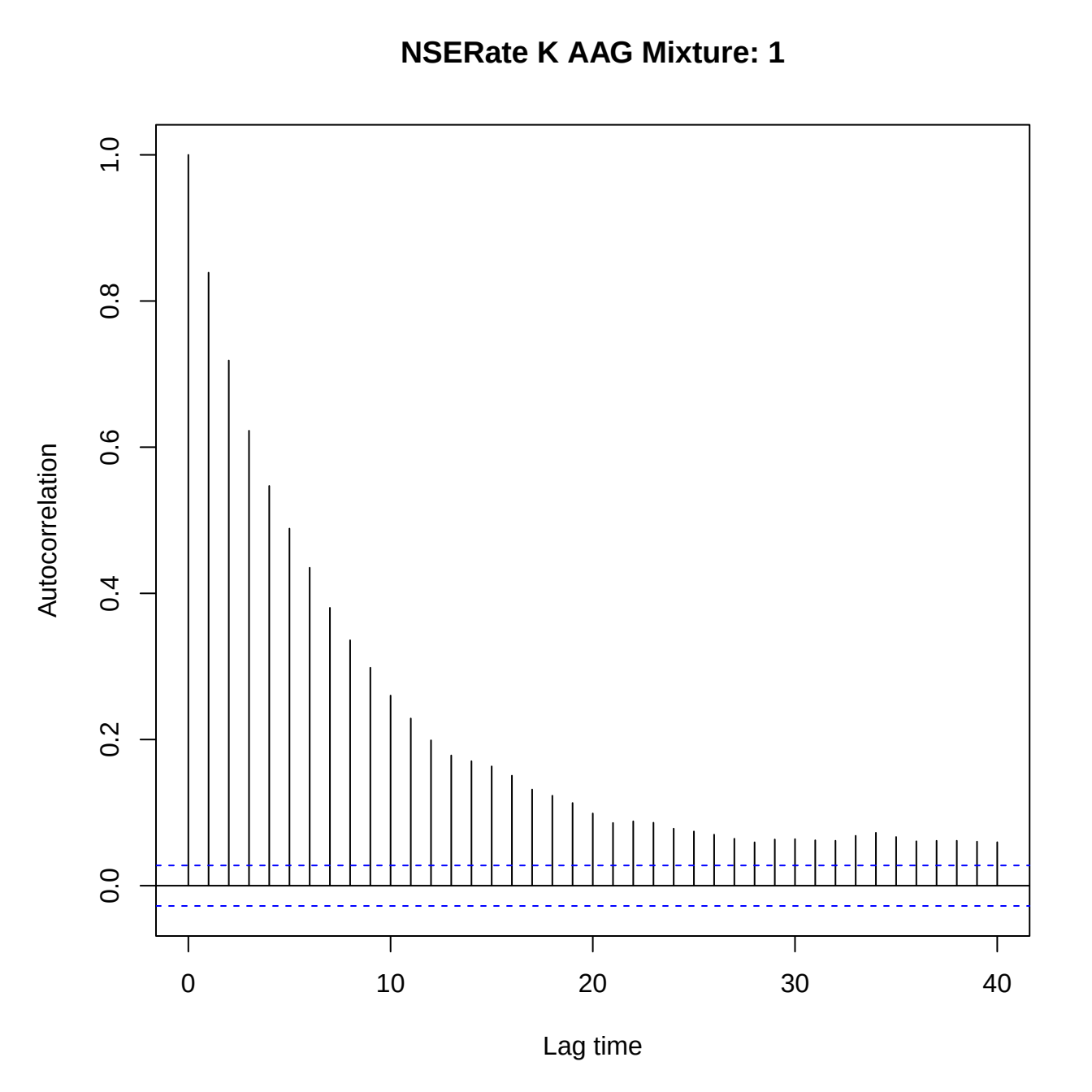
Lag time


NSERate K AAG Mixture: 1
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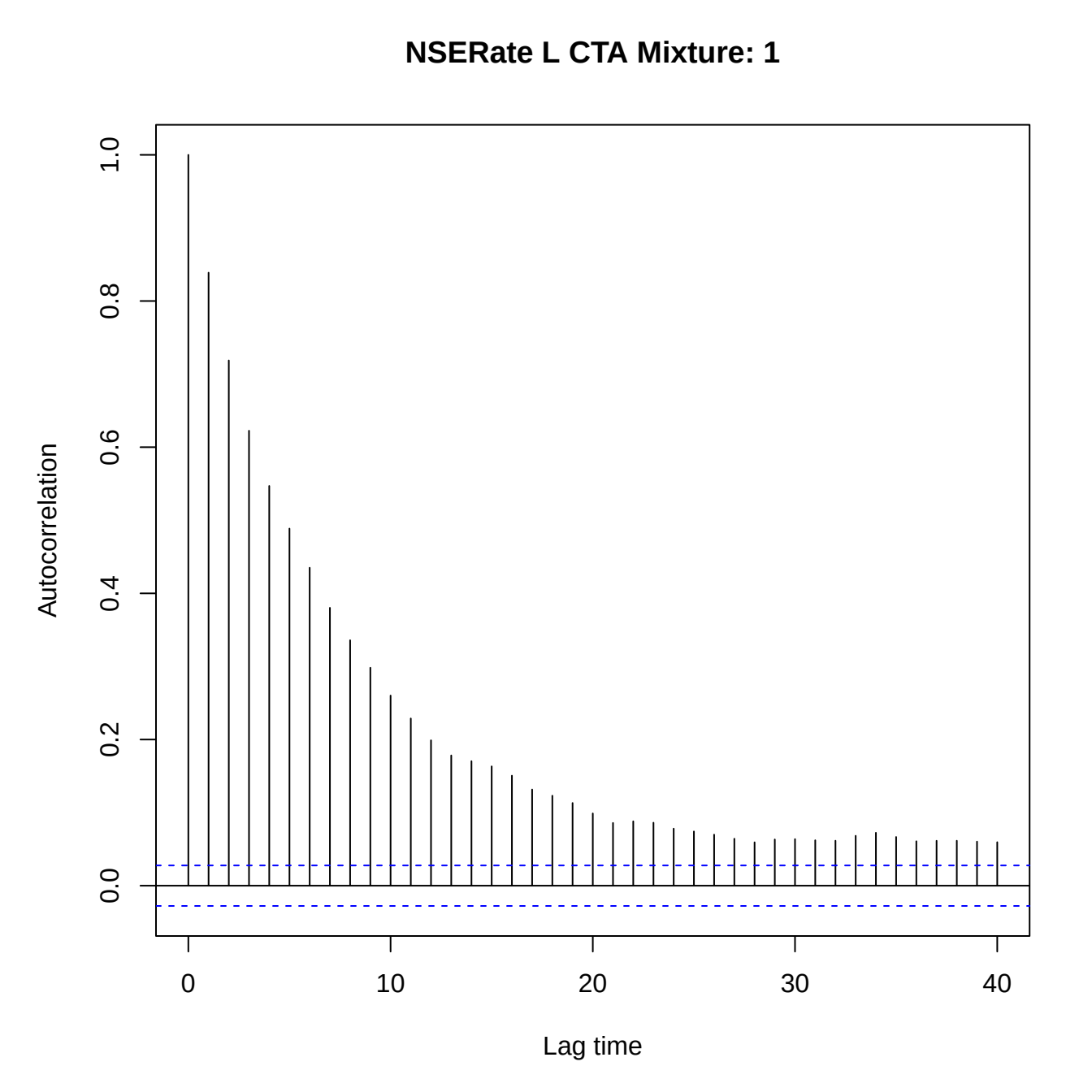
Lag time


NSERate L CTA Mixture: 1
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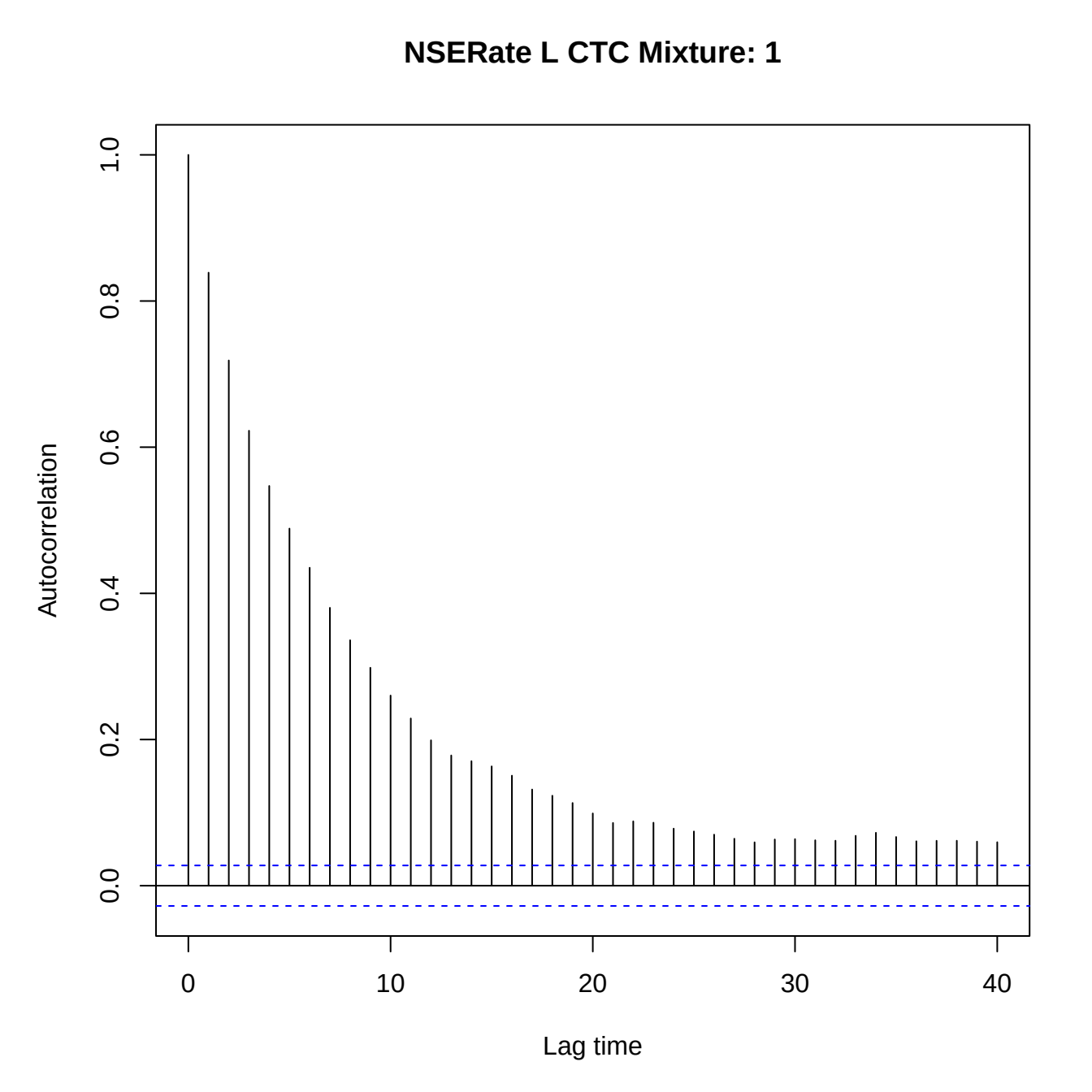
Lag time


NSERate L CTC Mixture: 1
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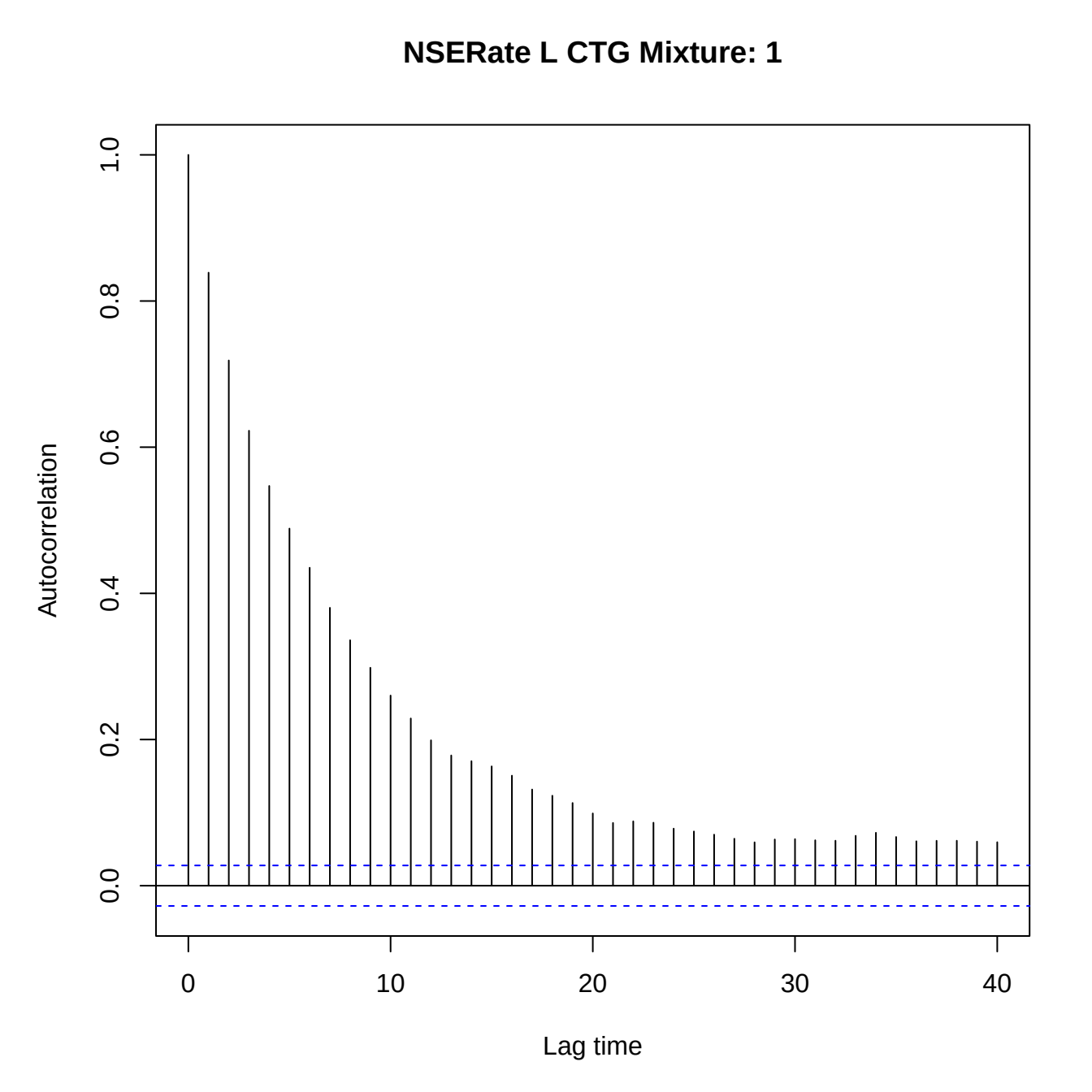
Lag time


NSERate L CTG Mixture: 1
Autocorrelation
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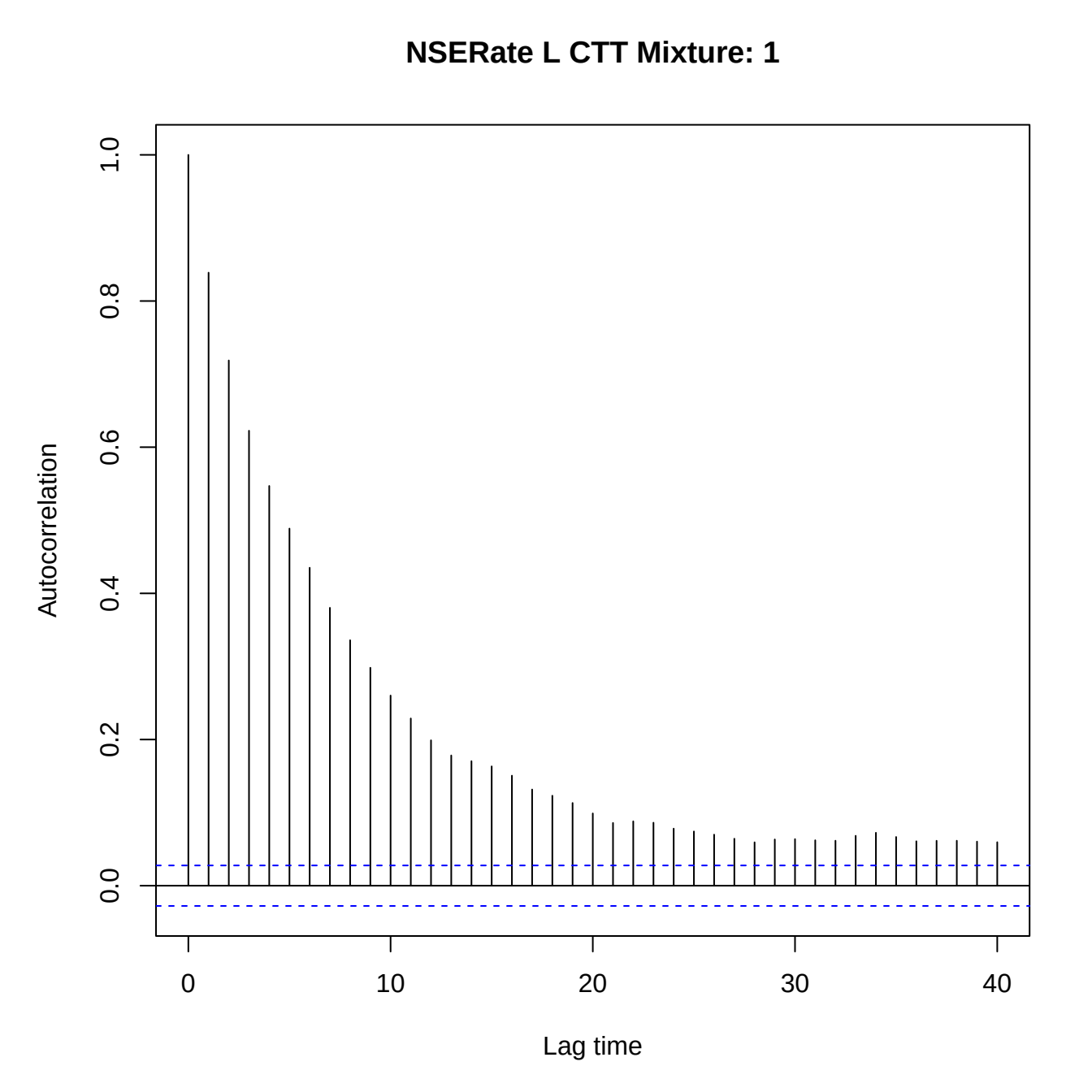
Lag time


NSERate L CTT Mixture: 1
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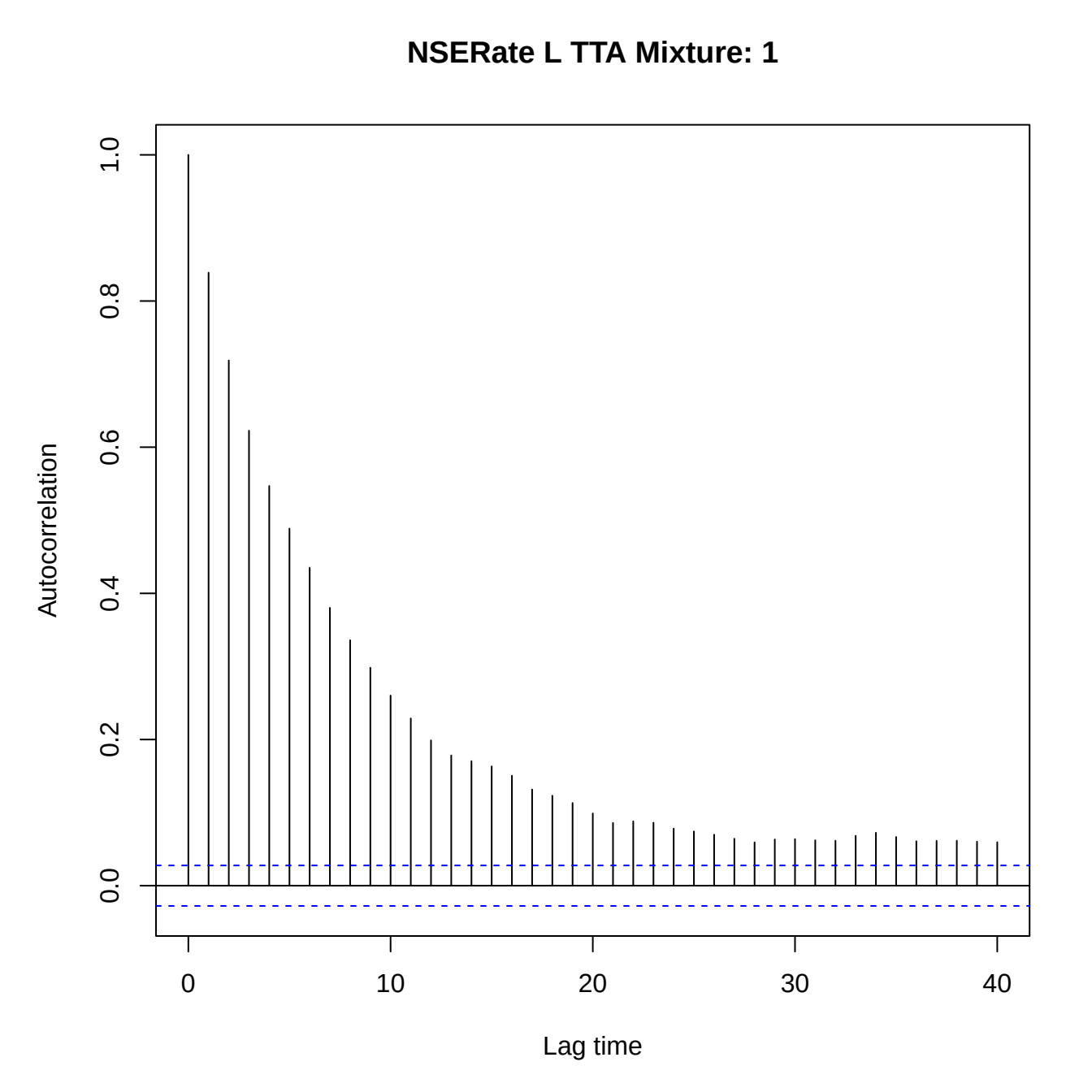
Lag time


NSERate L TTA Mixture: 1
Autocorrelation
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20
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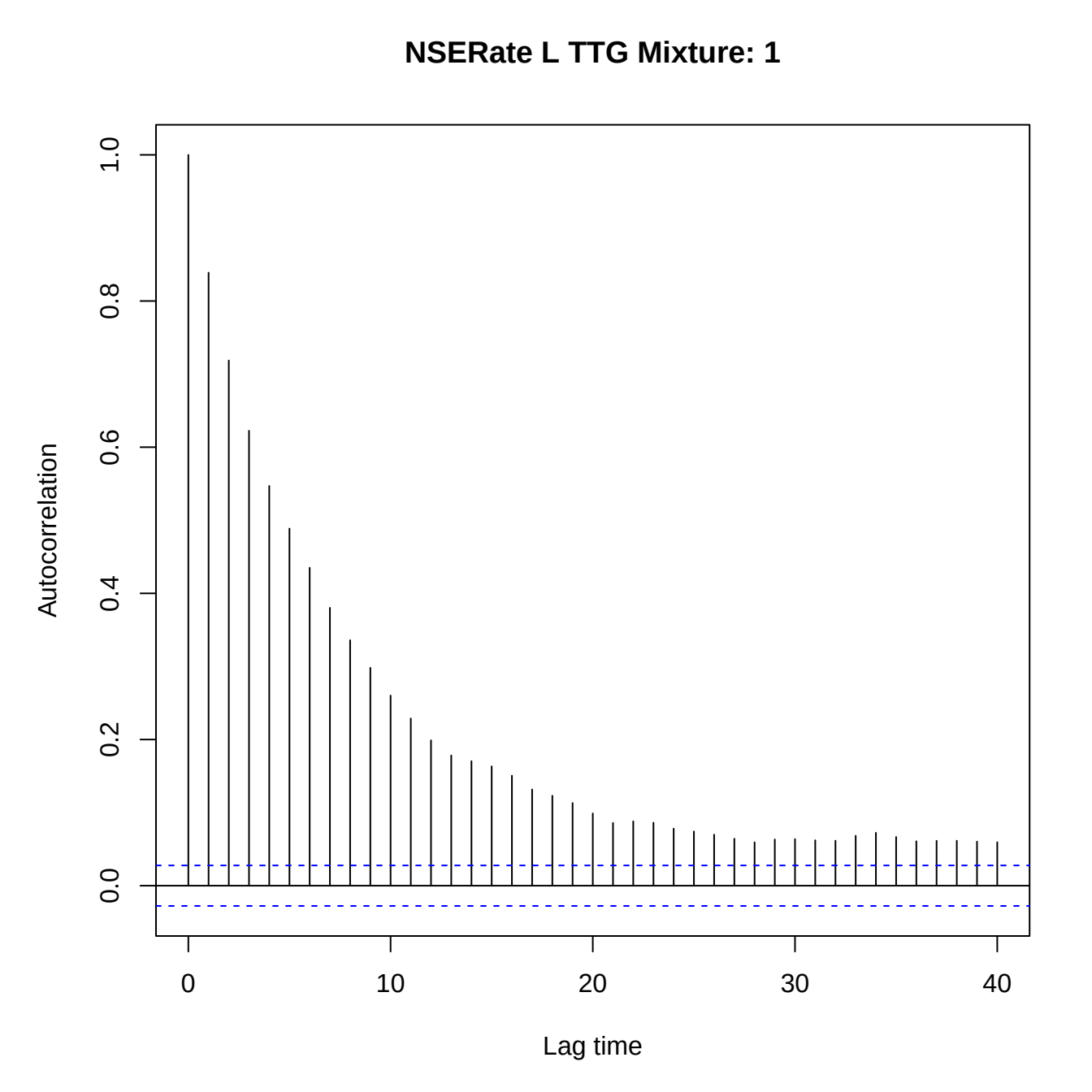
Lag time


NSERate L TTG Mixture: 1
Autocorrelation
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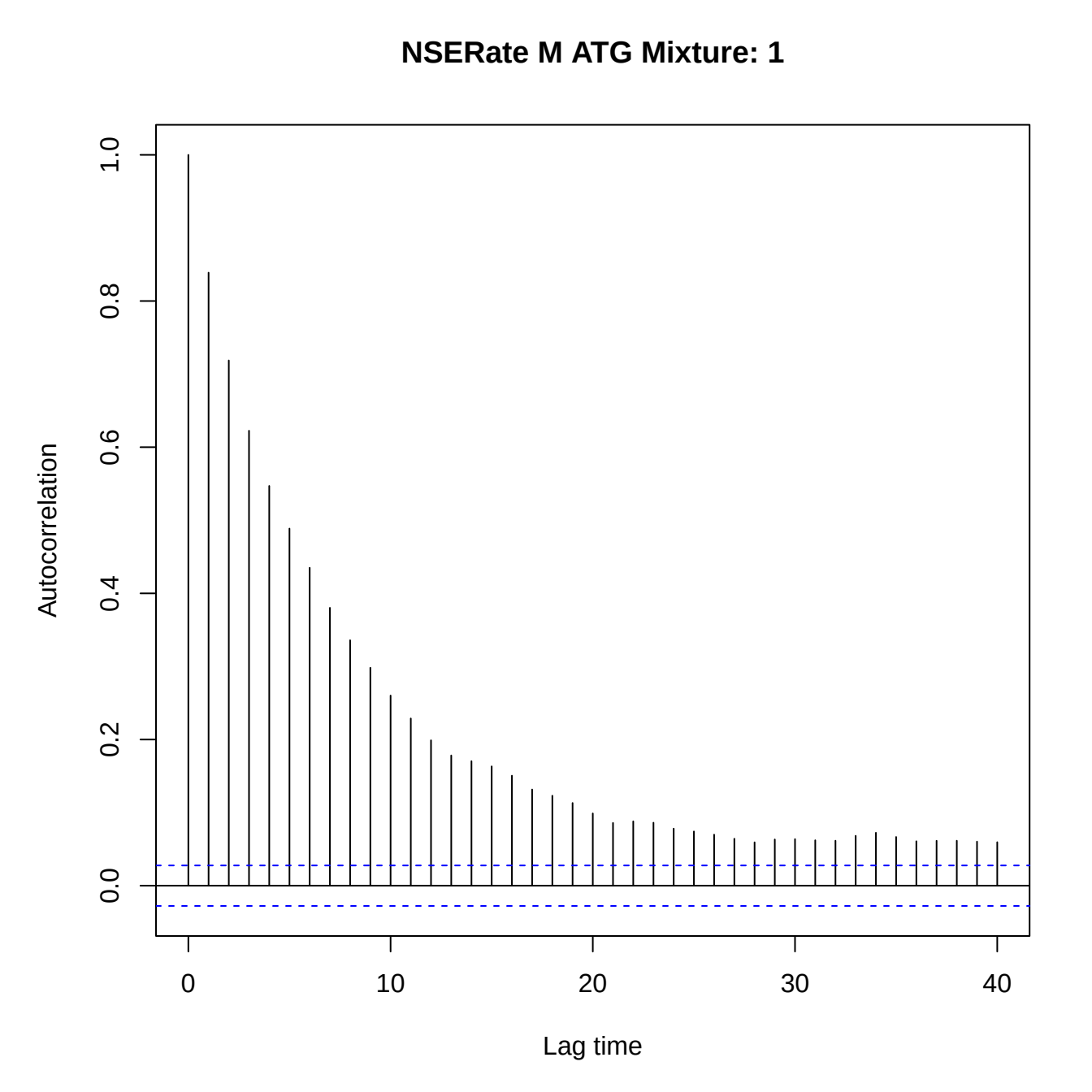
Lag time


NSERate M ATG Mixture: 1
Autocorrelation
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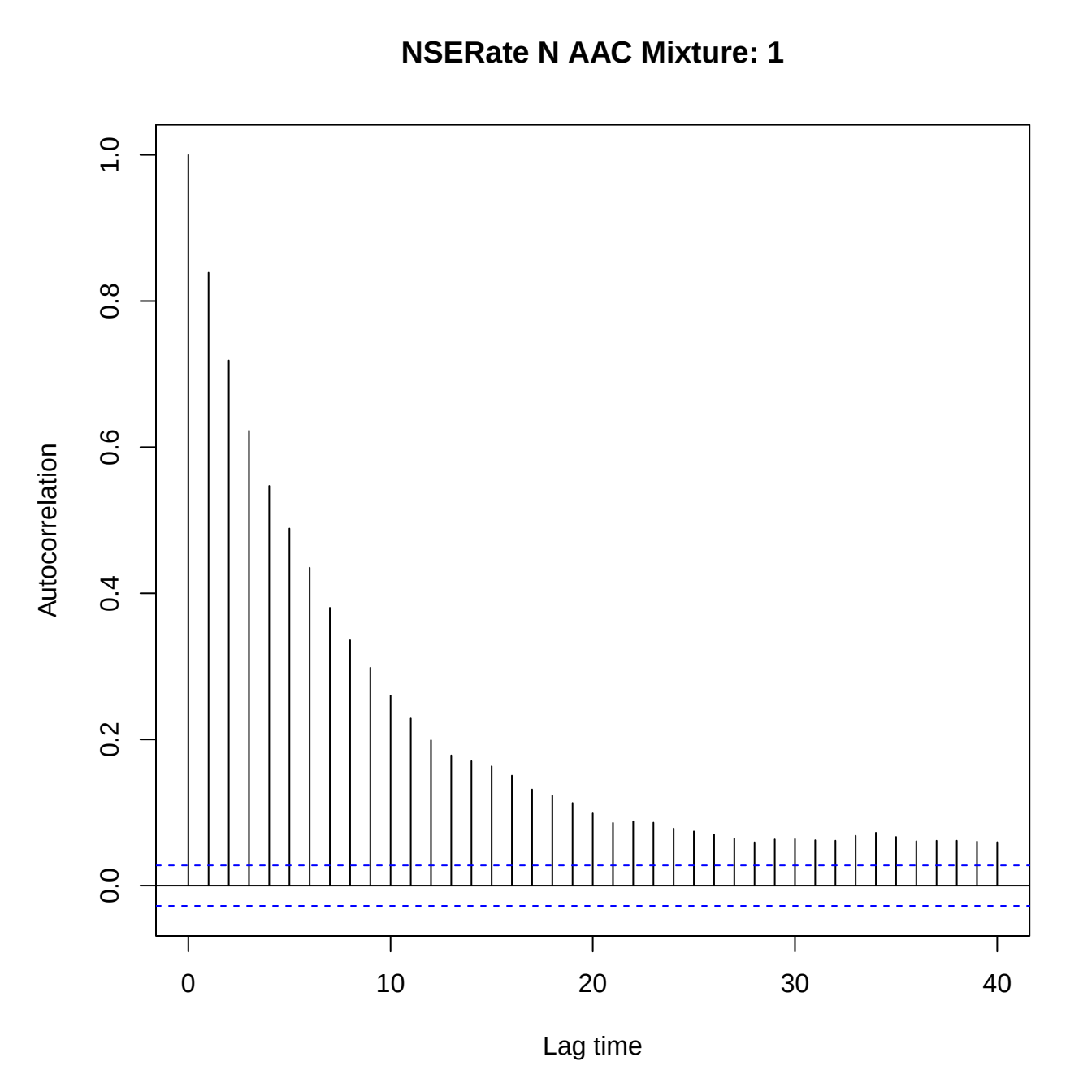
Lag time


NSERate N AAC Mixture: 1
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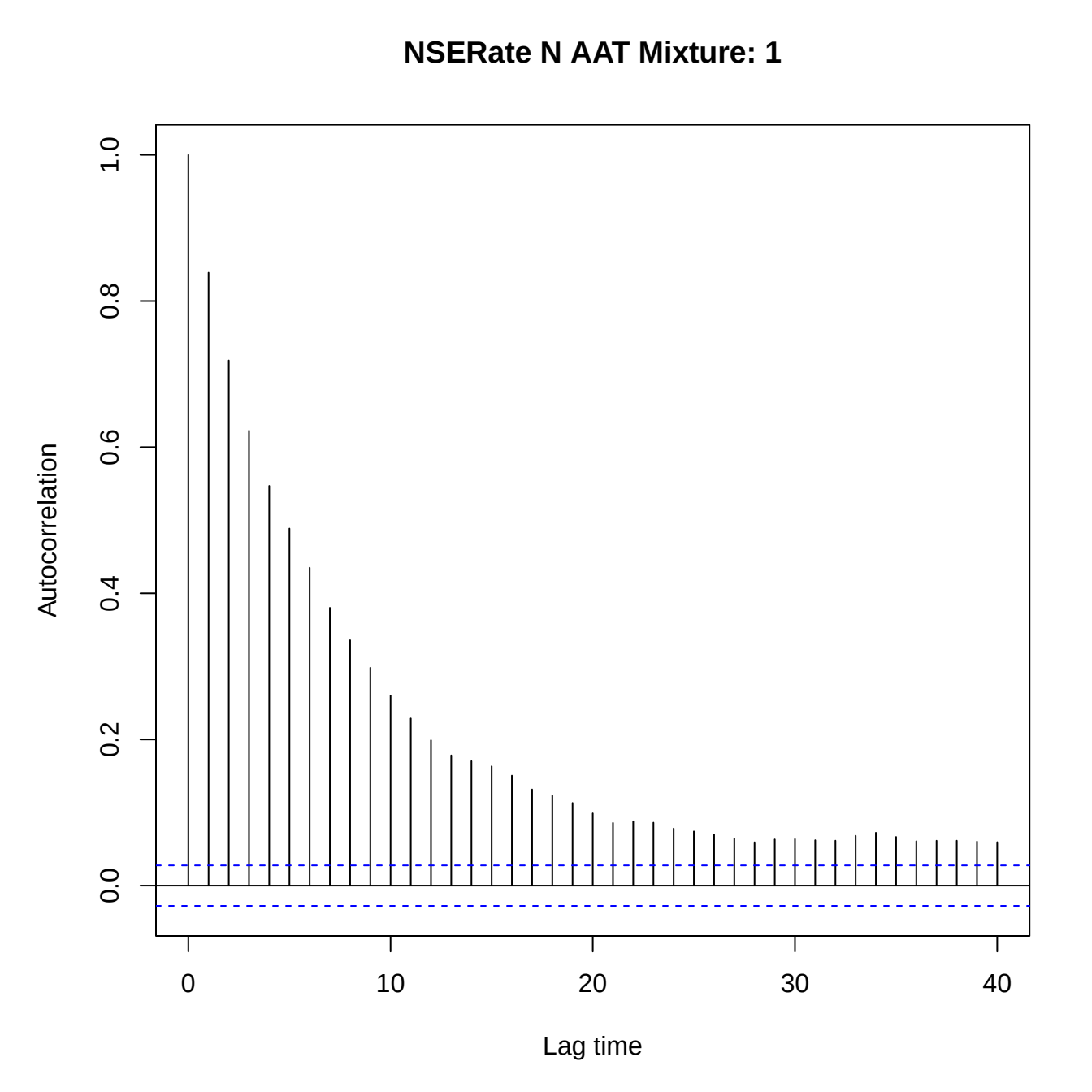
Lag time


NSERate N AAT Mixture: 1
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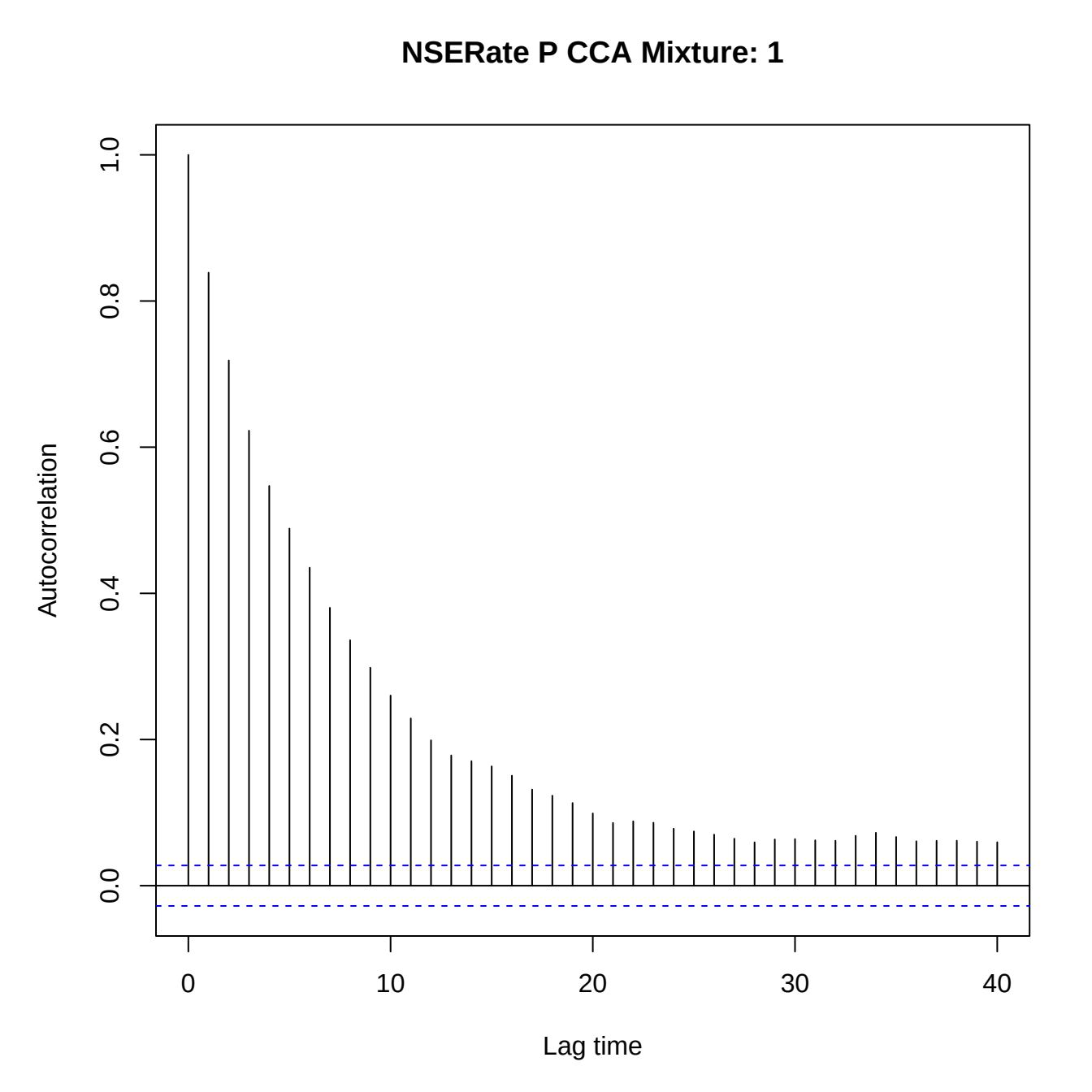
Lag time


NSERate P CCA Mixture: 1
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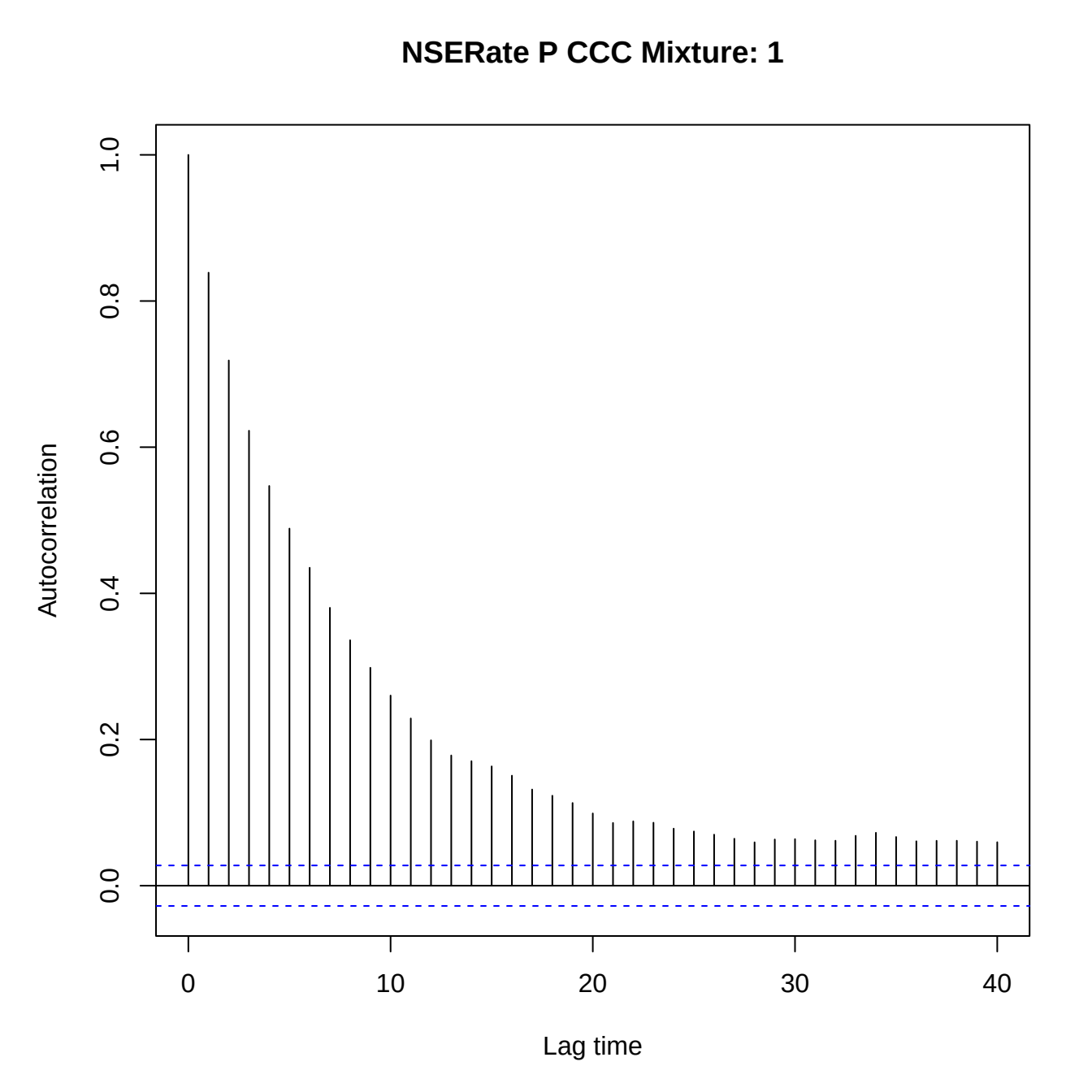
Lag time


NSERate P CCC Mixture: 1
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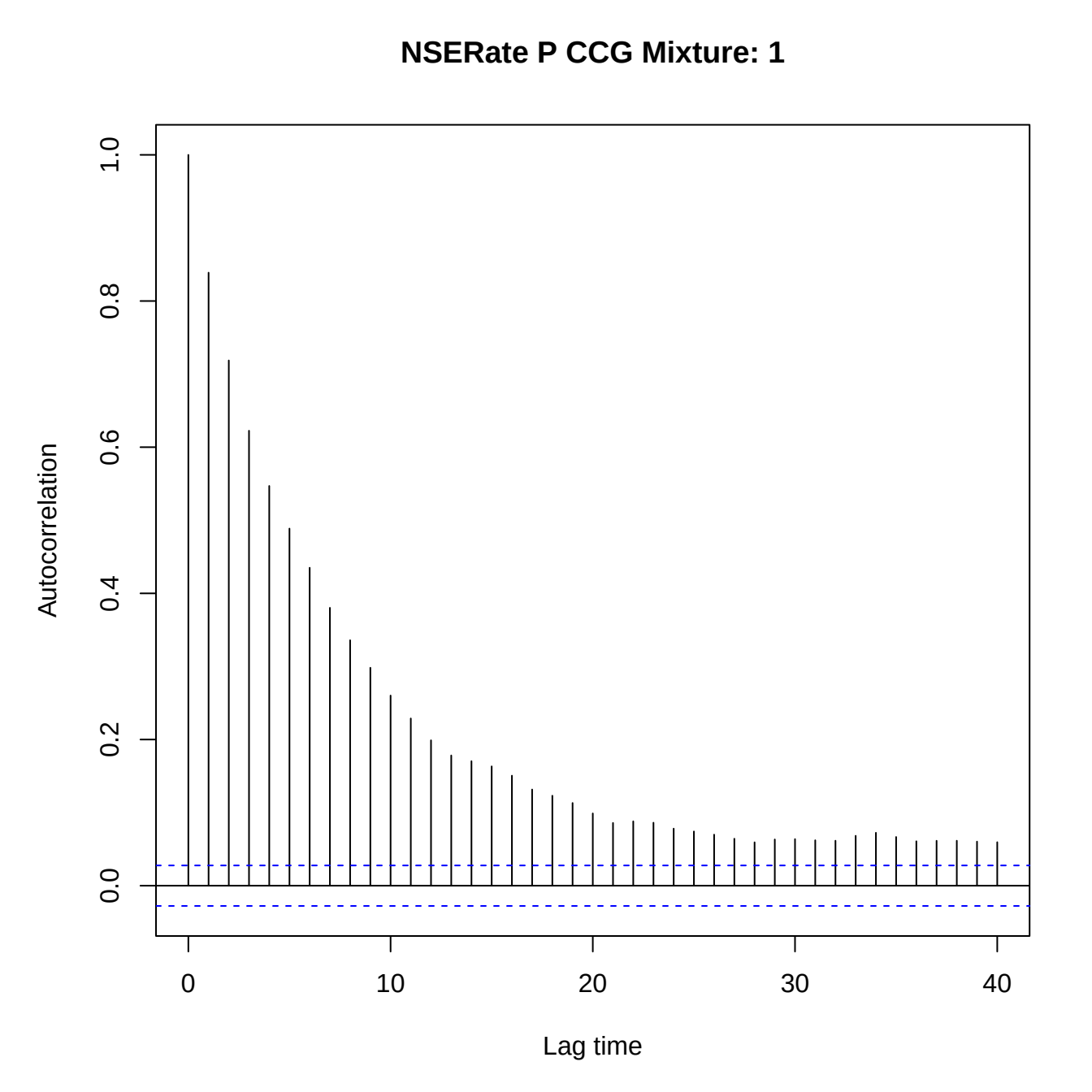
Lag time


NSERate P CCG Mixture: 1
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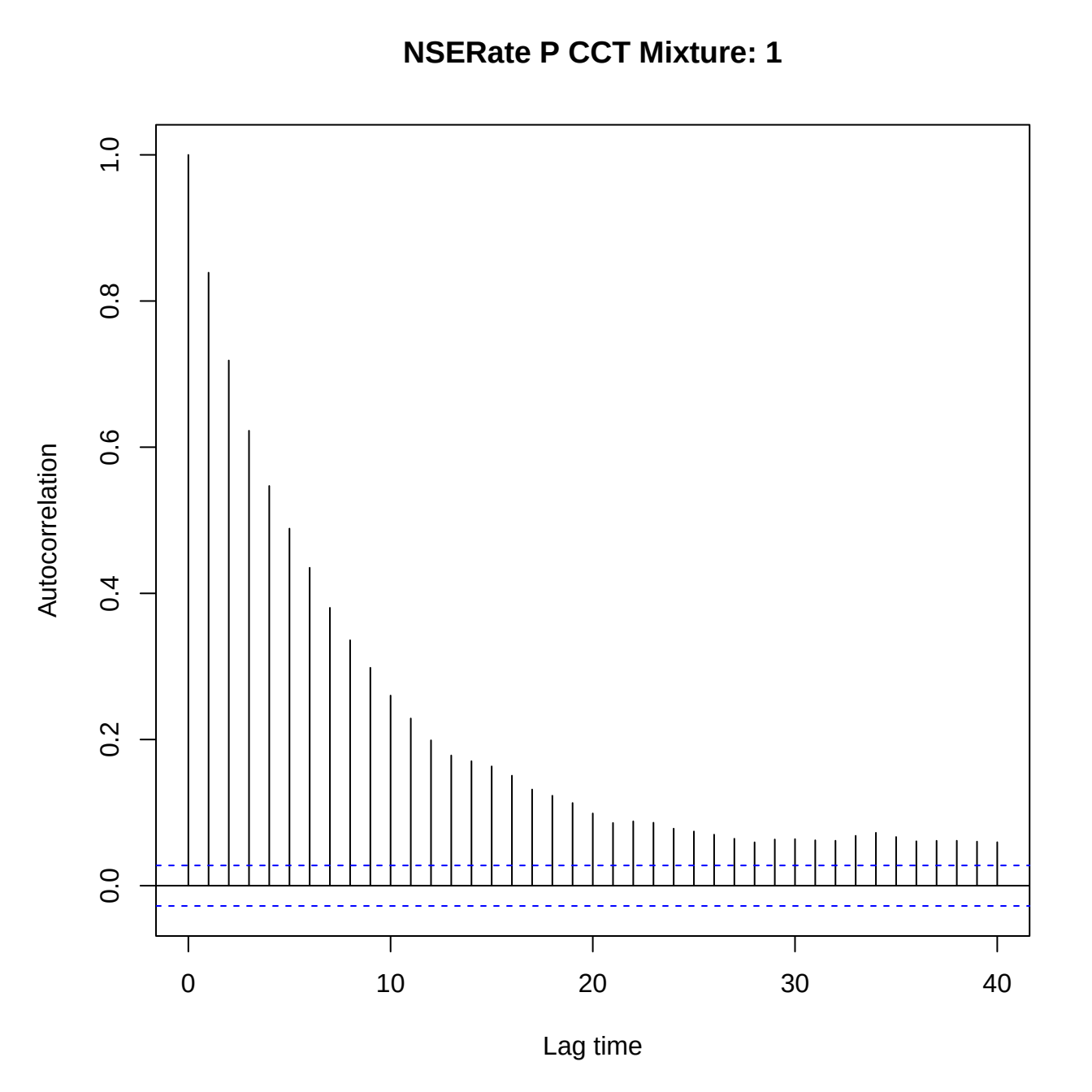
Lag time


NSERate P CCT Mixture: 1
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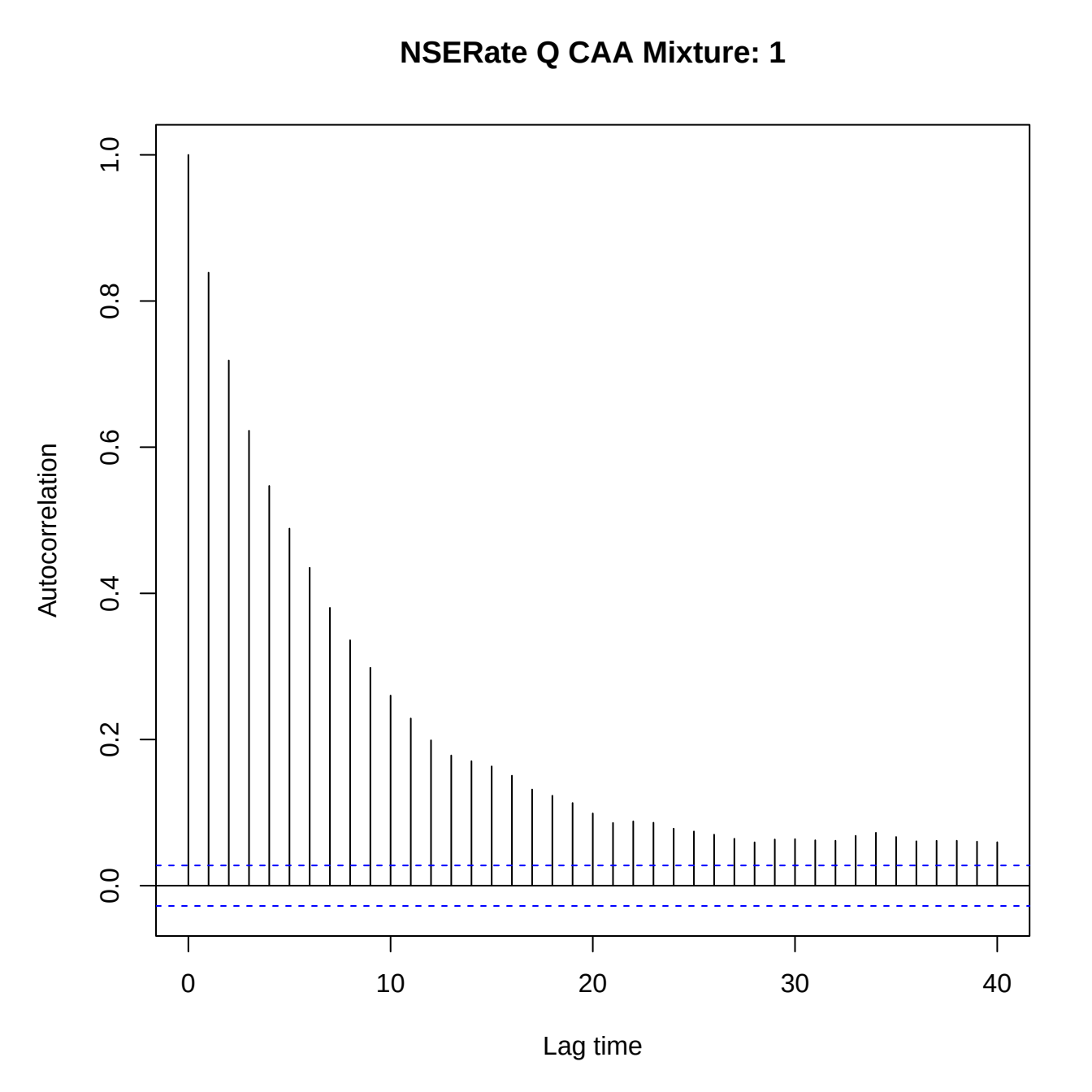
Lag time


NSERate Q CAA Mixture: 1
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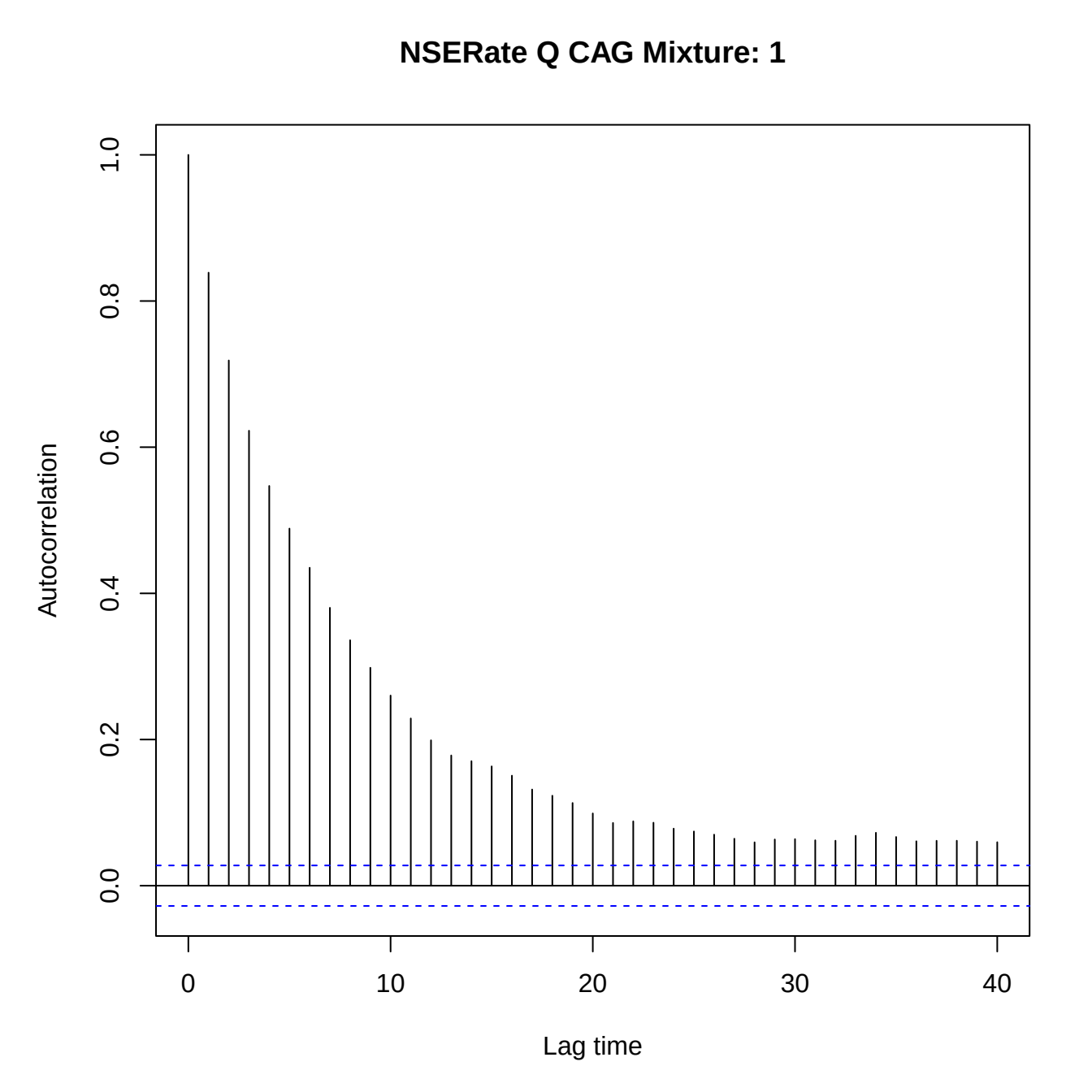
Lag time


NSERate Q CAG Mixture: 1
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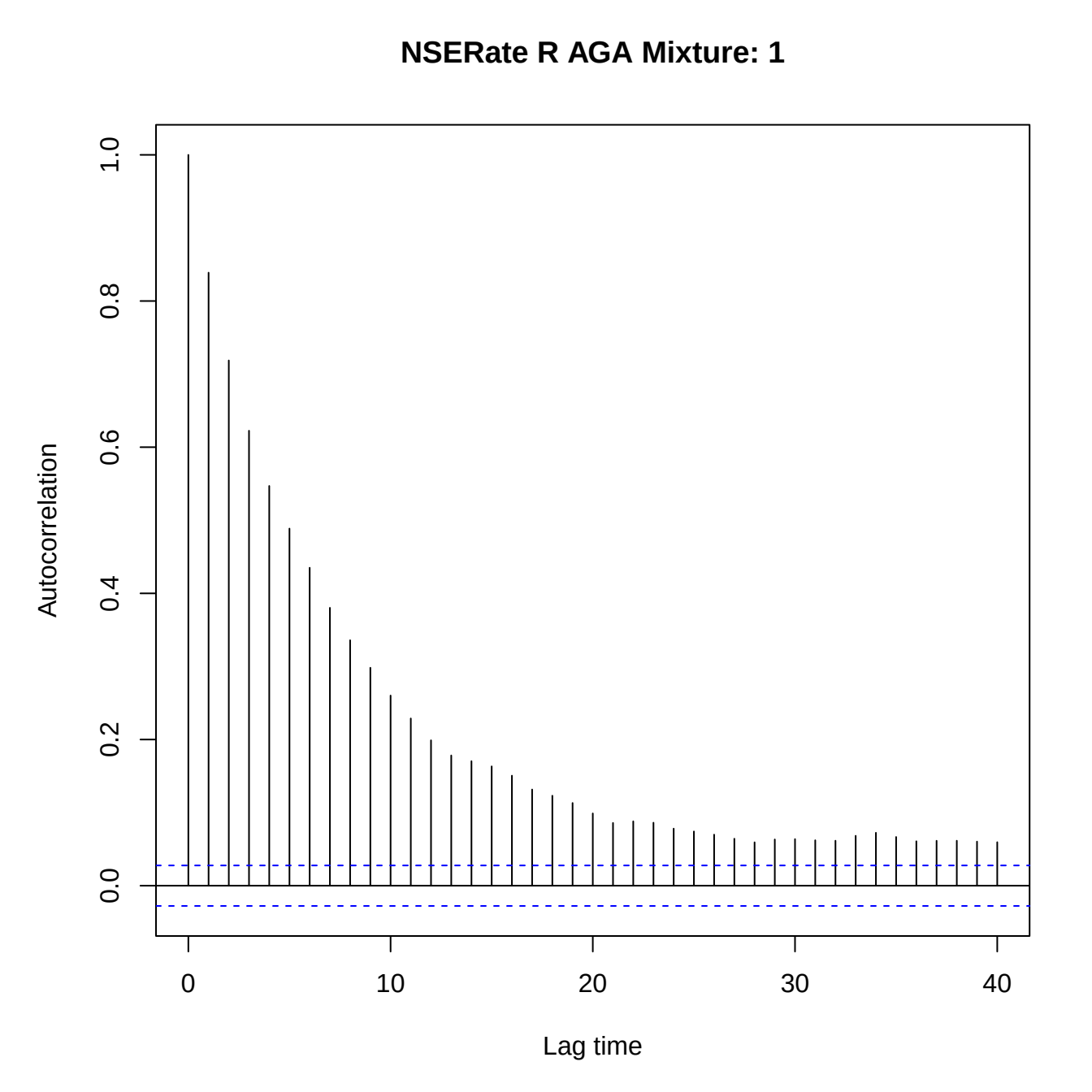
Lag time


NSERate R AGA Mixture: 1
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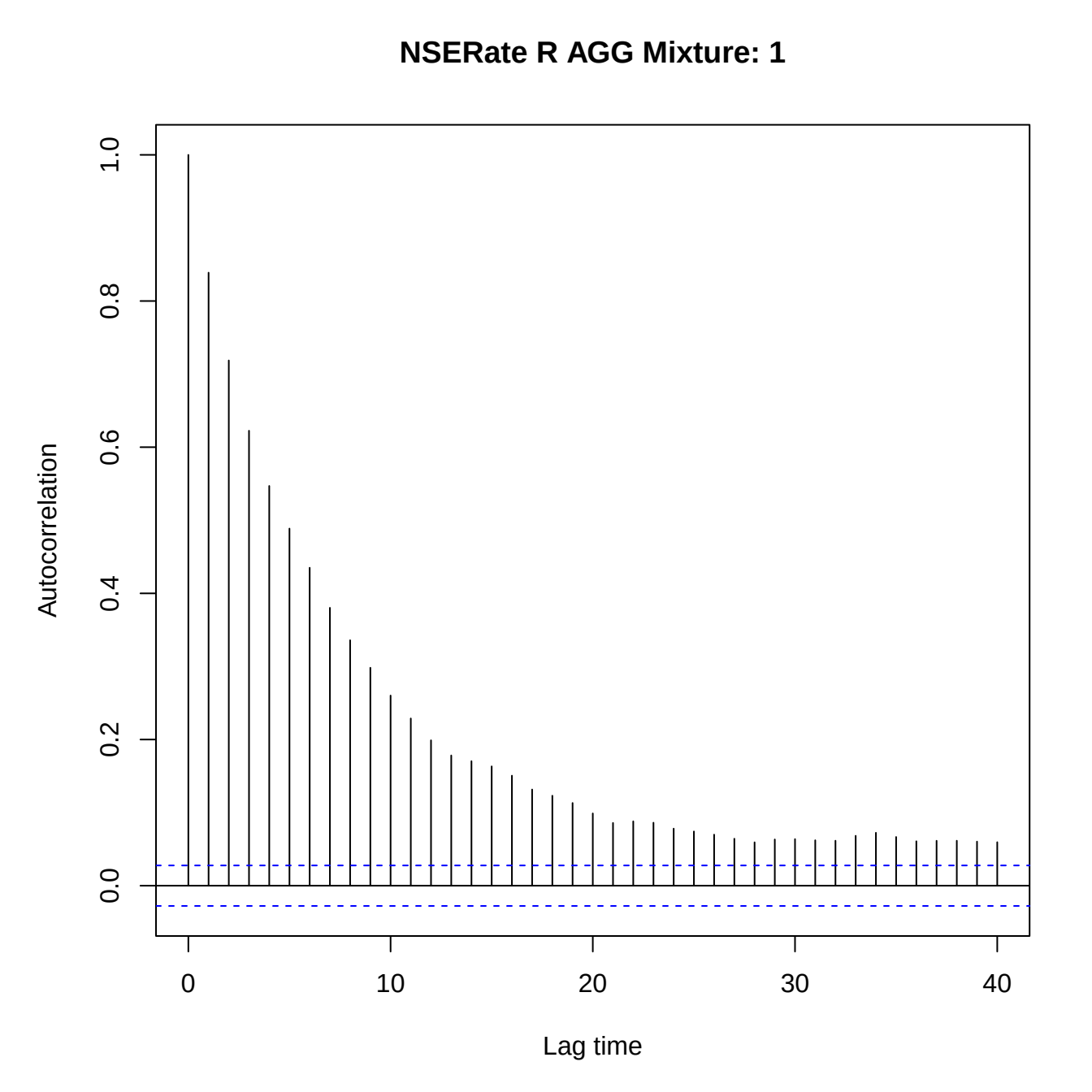
Lag time


NSERate R AGG Mixture: 1
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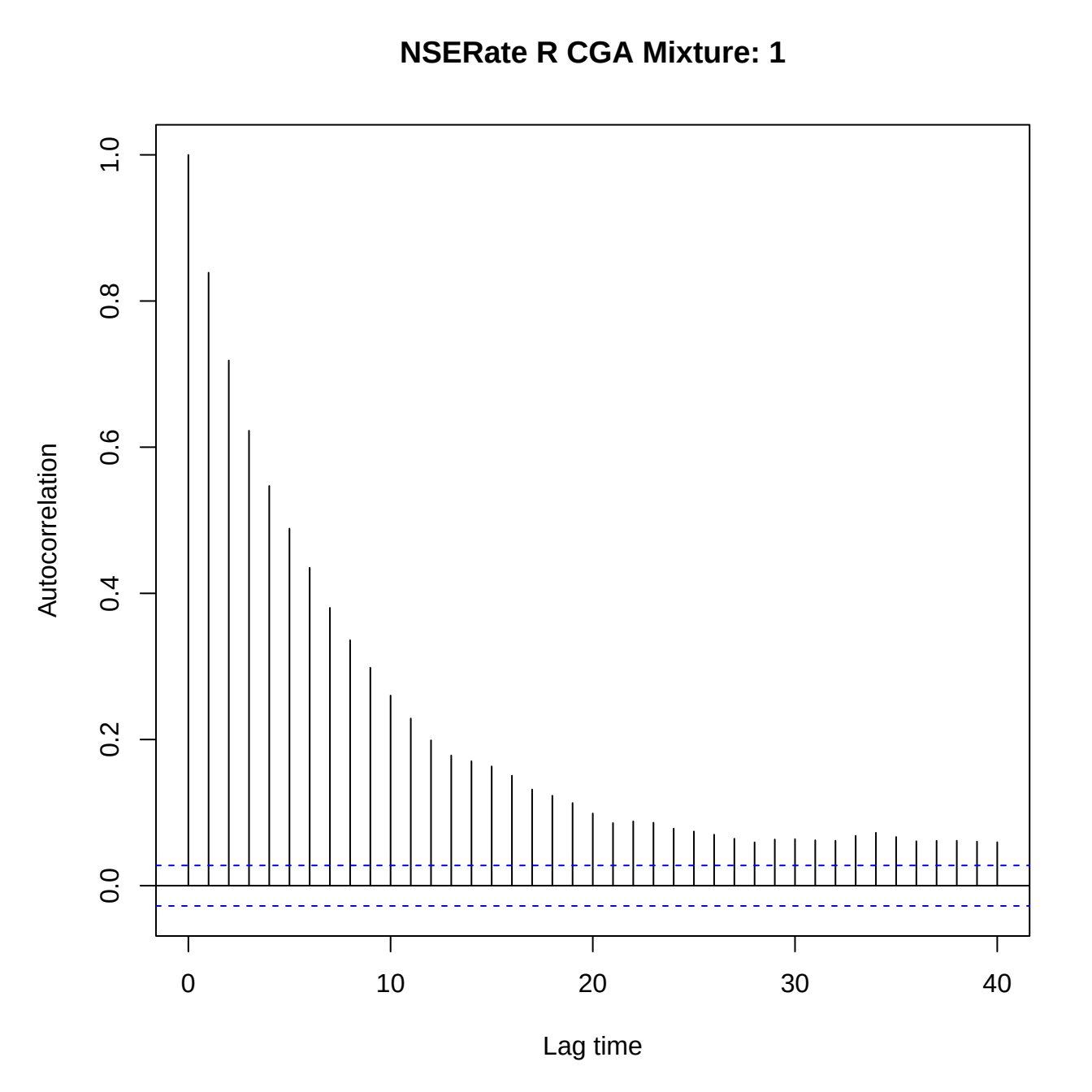
Lag time


NSERate R CGA Mixture: 1
Autocorrelation
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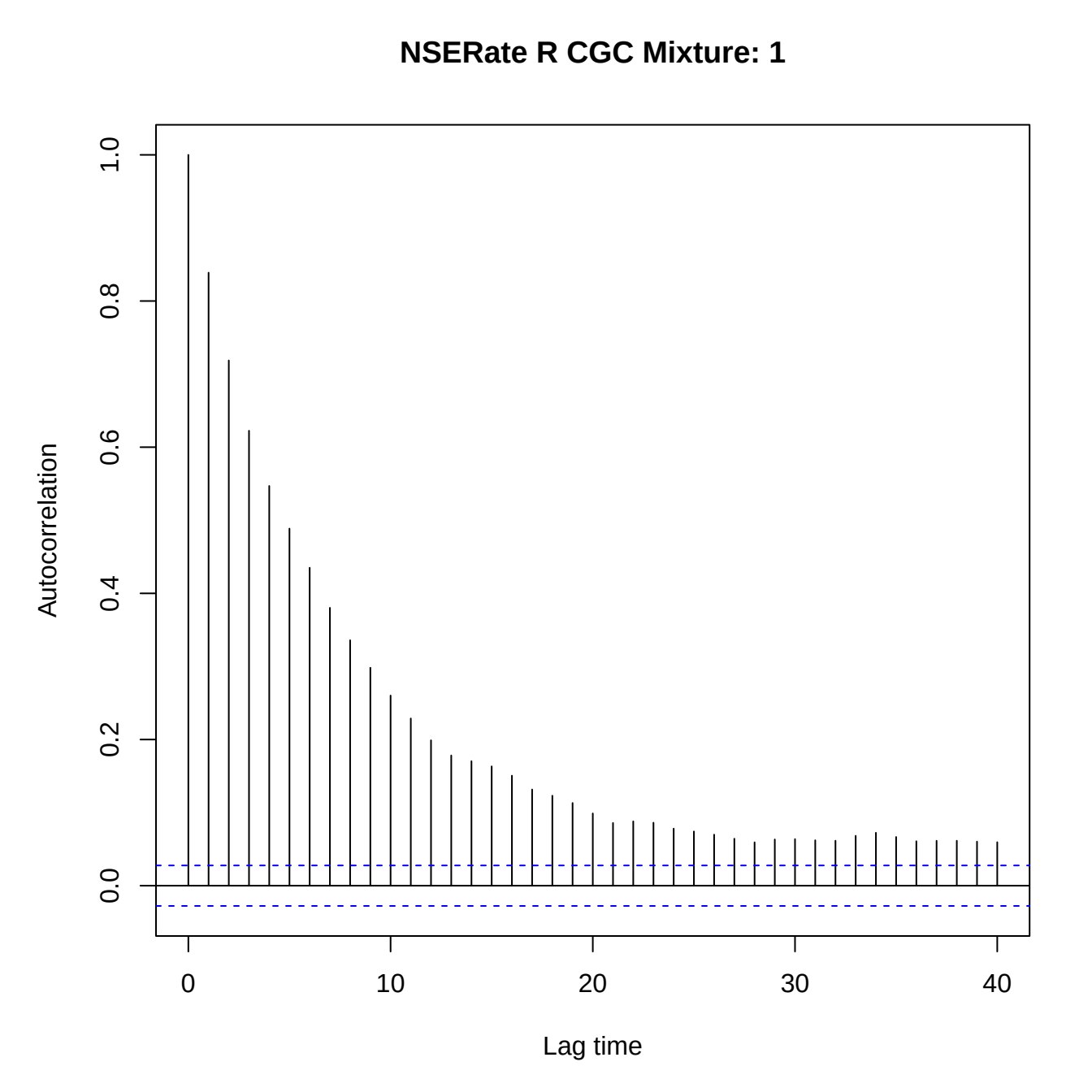
Lag time


NSERate R CGC Mixture: 1
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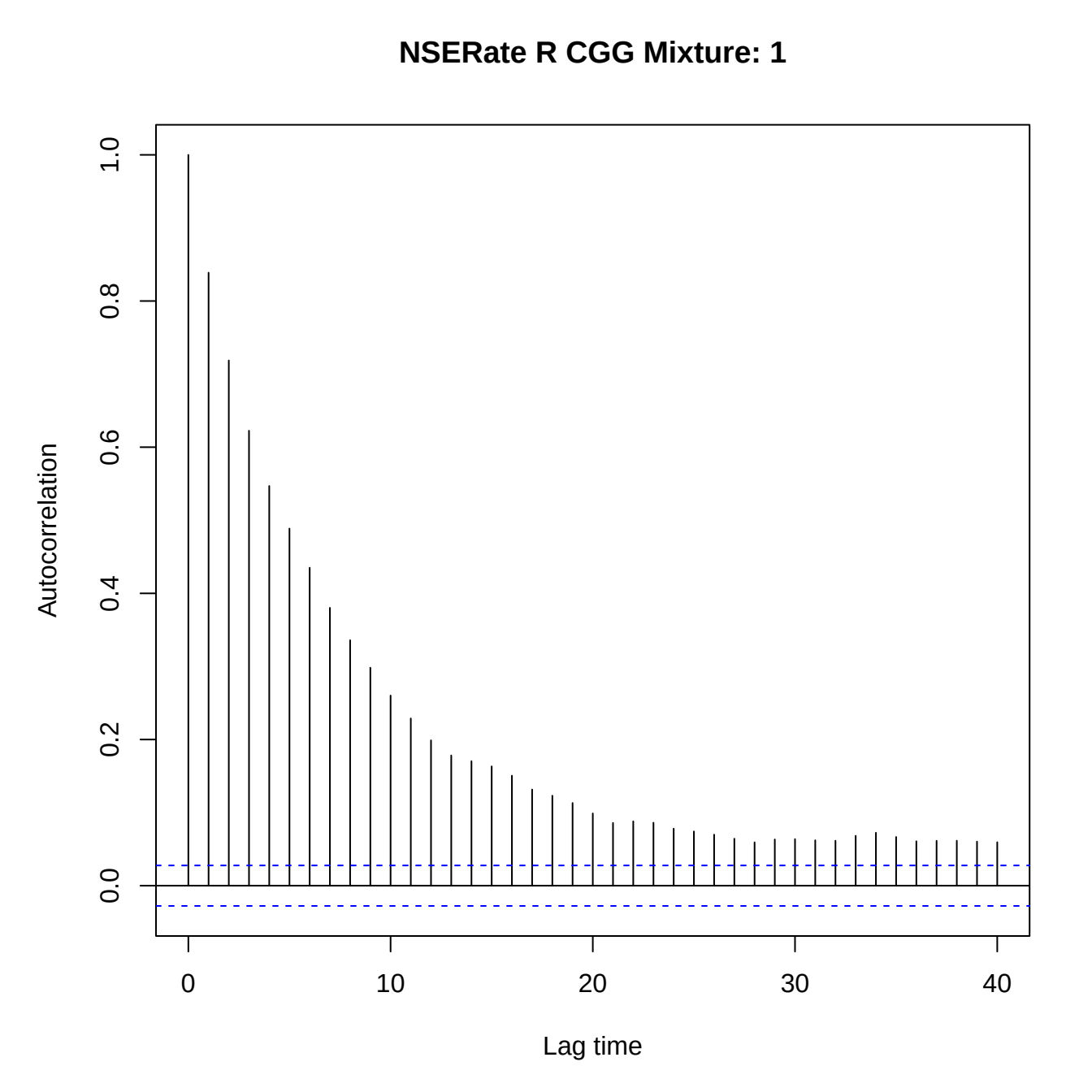
Lag time


NSERate R CGG Mixture: 1
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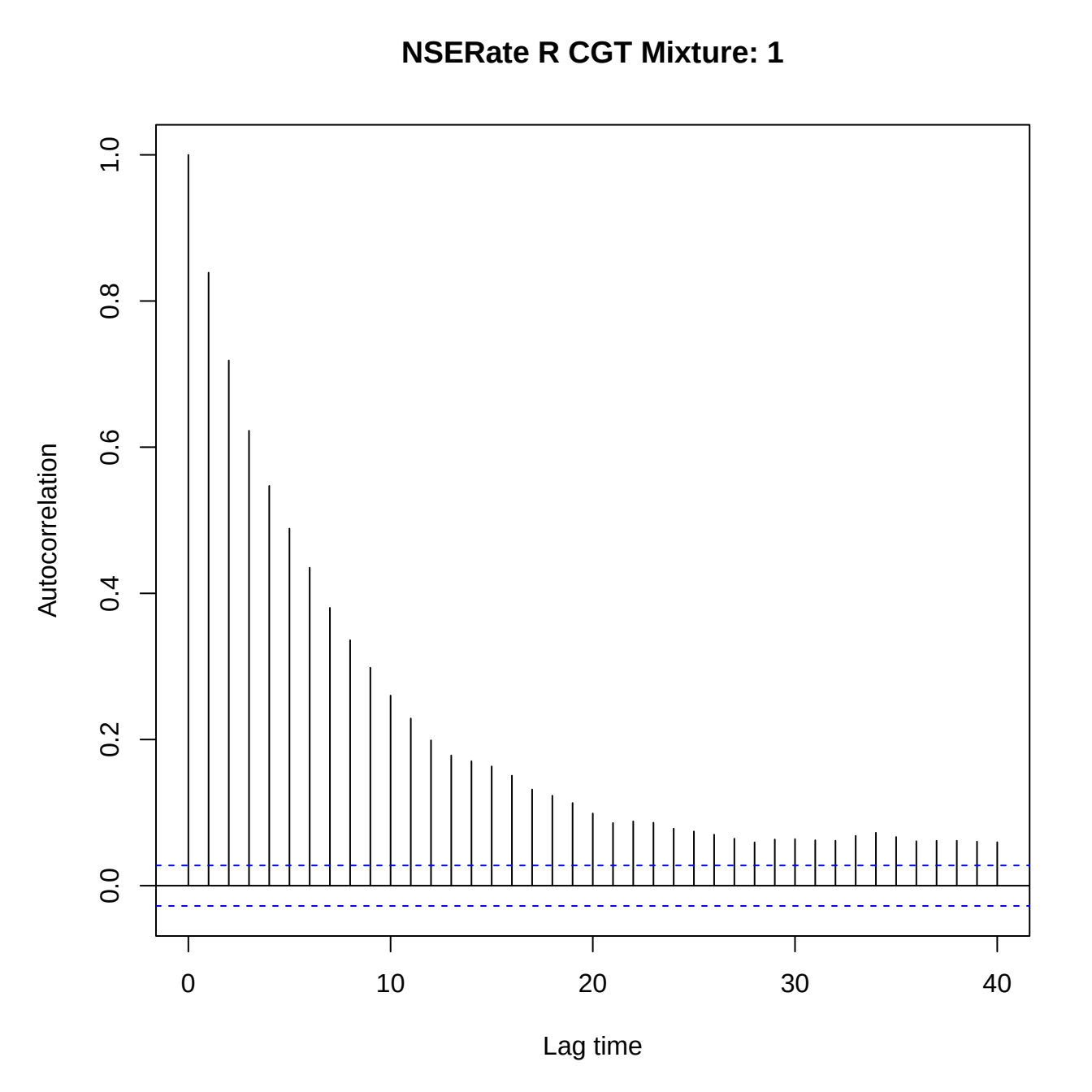
Lag time


NSERate R CGT Mixture: 1
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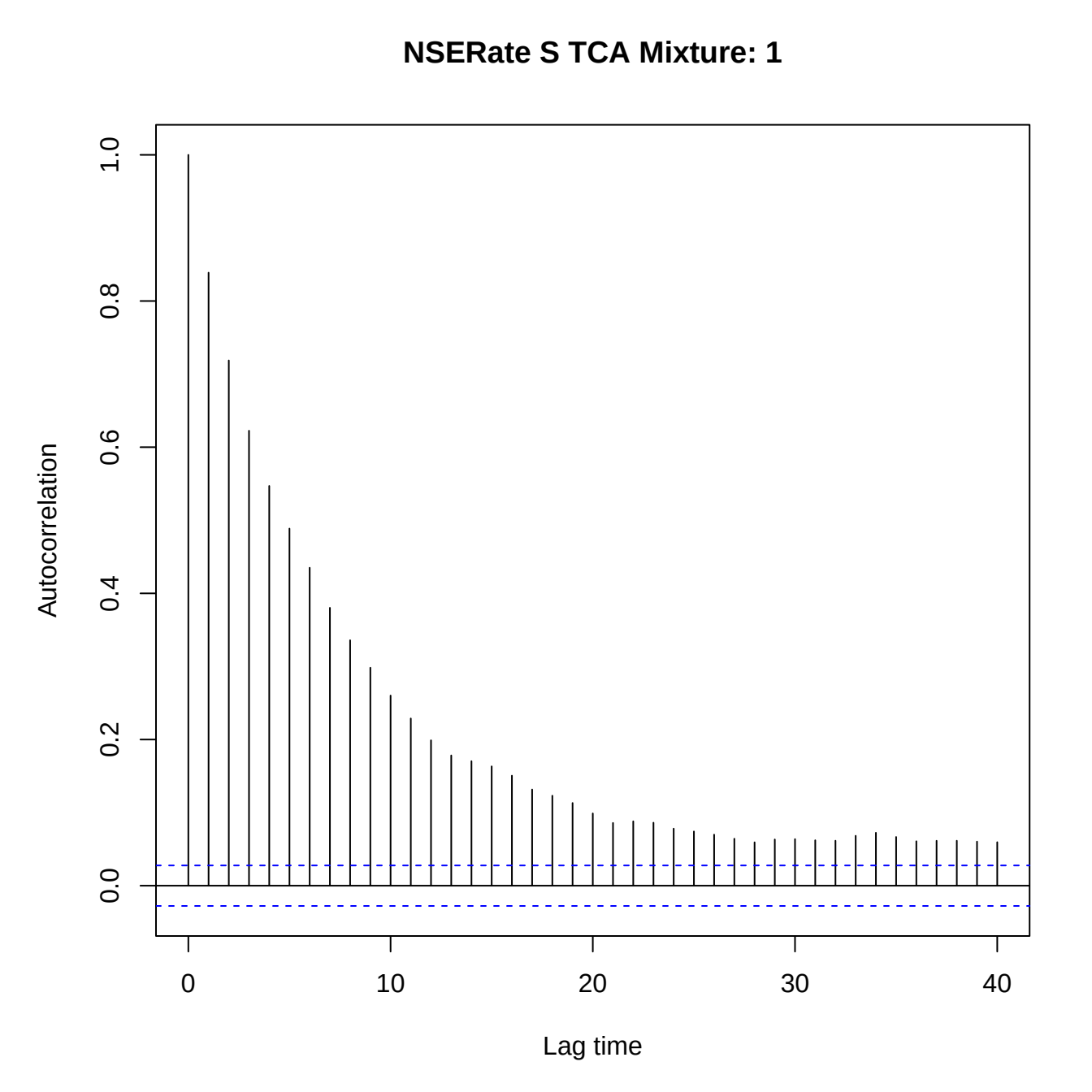
Lag time


NSERate S TCA Mixture: 1
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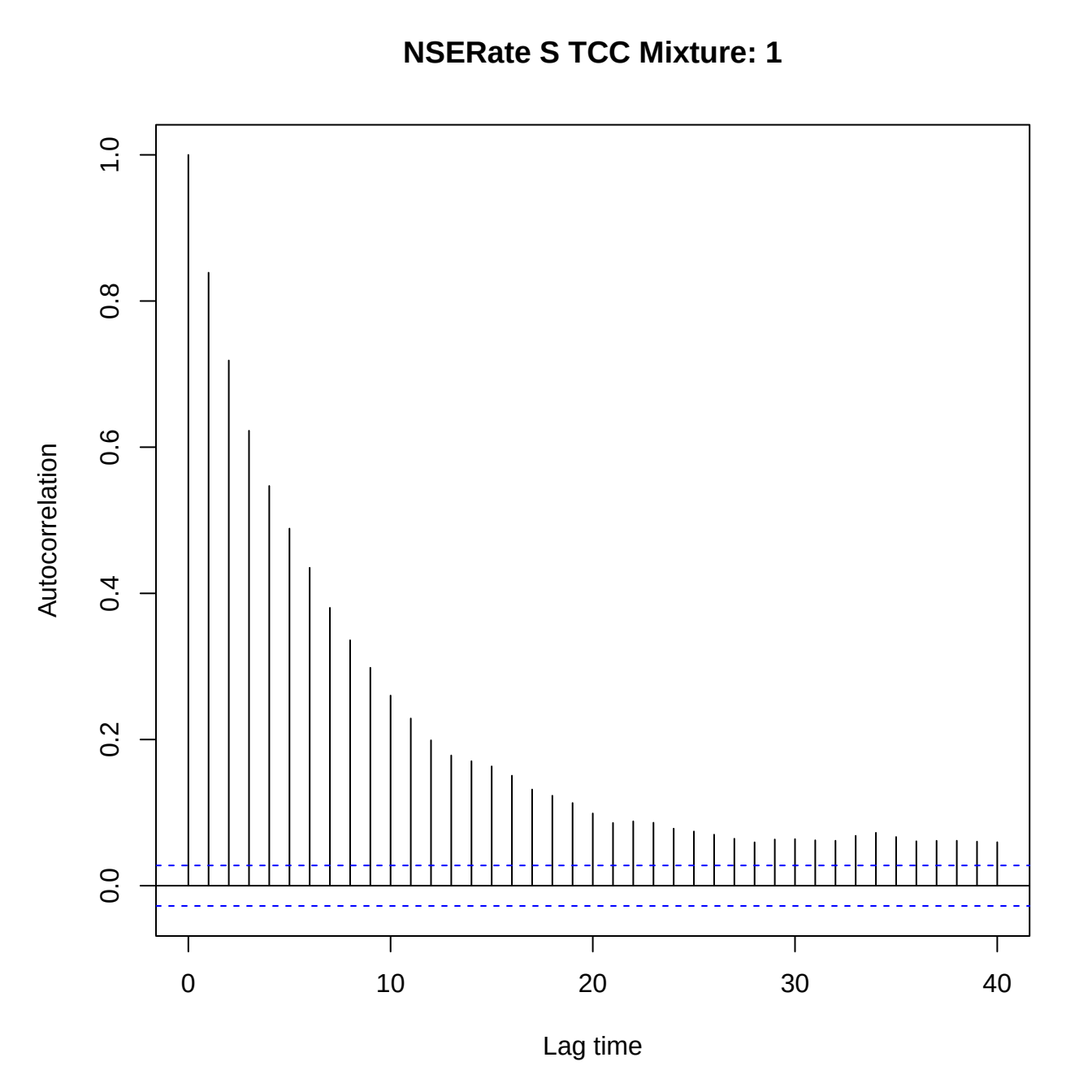
Lag time


NSERate S TCC Mixture: 1
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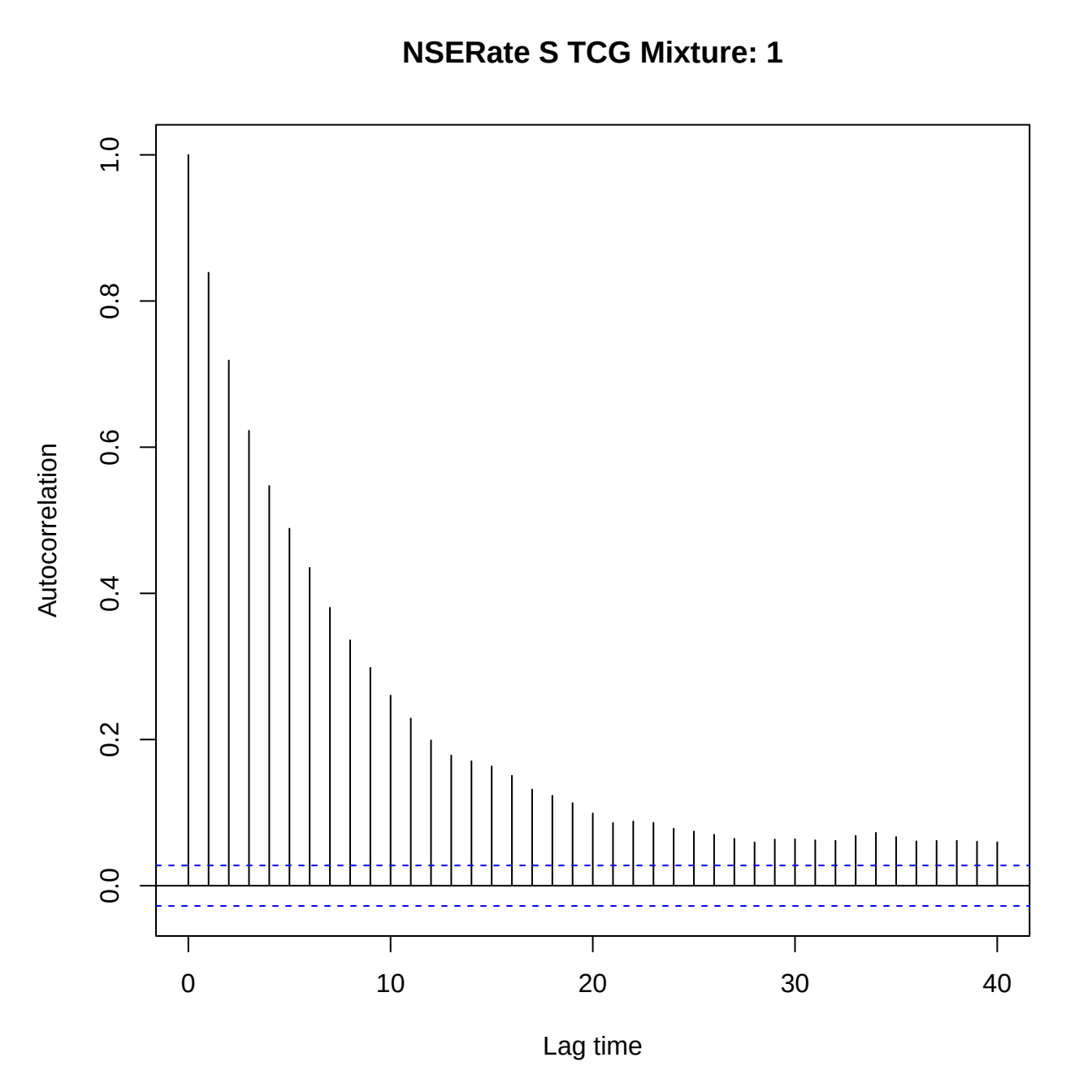
Lag time


NSERate S TCG Mixture: 1
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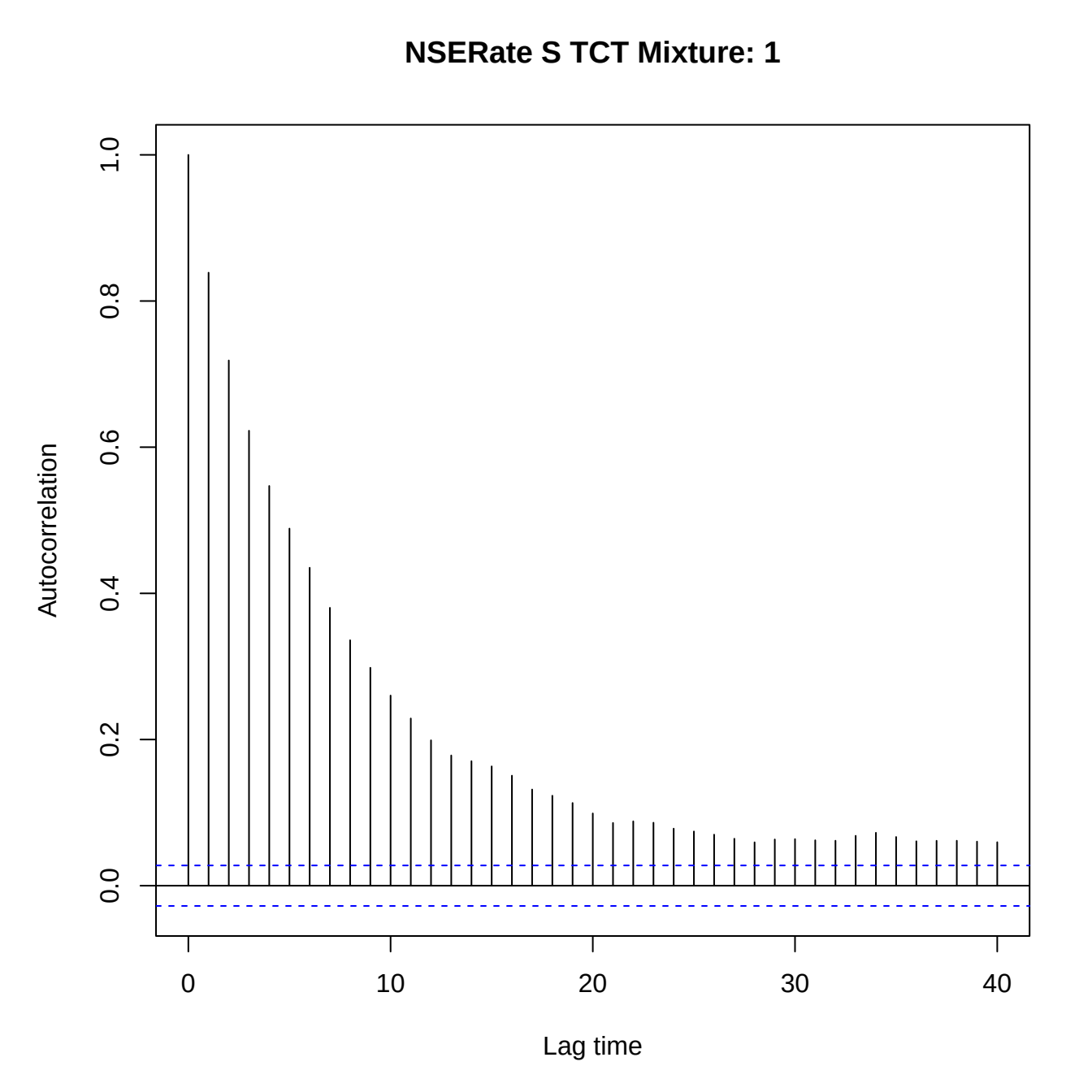
Lag time


NSERate S TCT Mixture: 1
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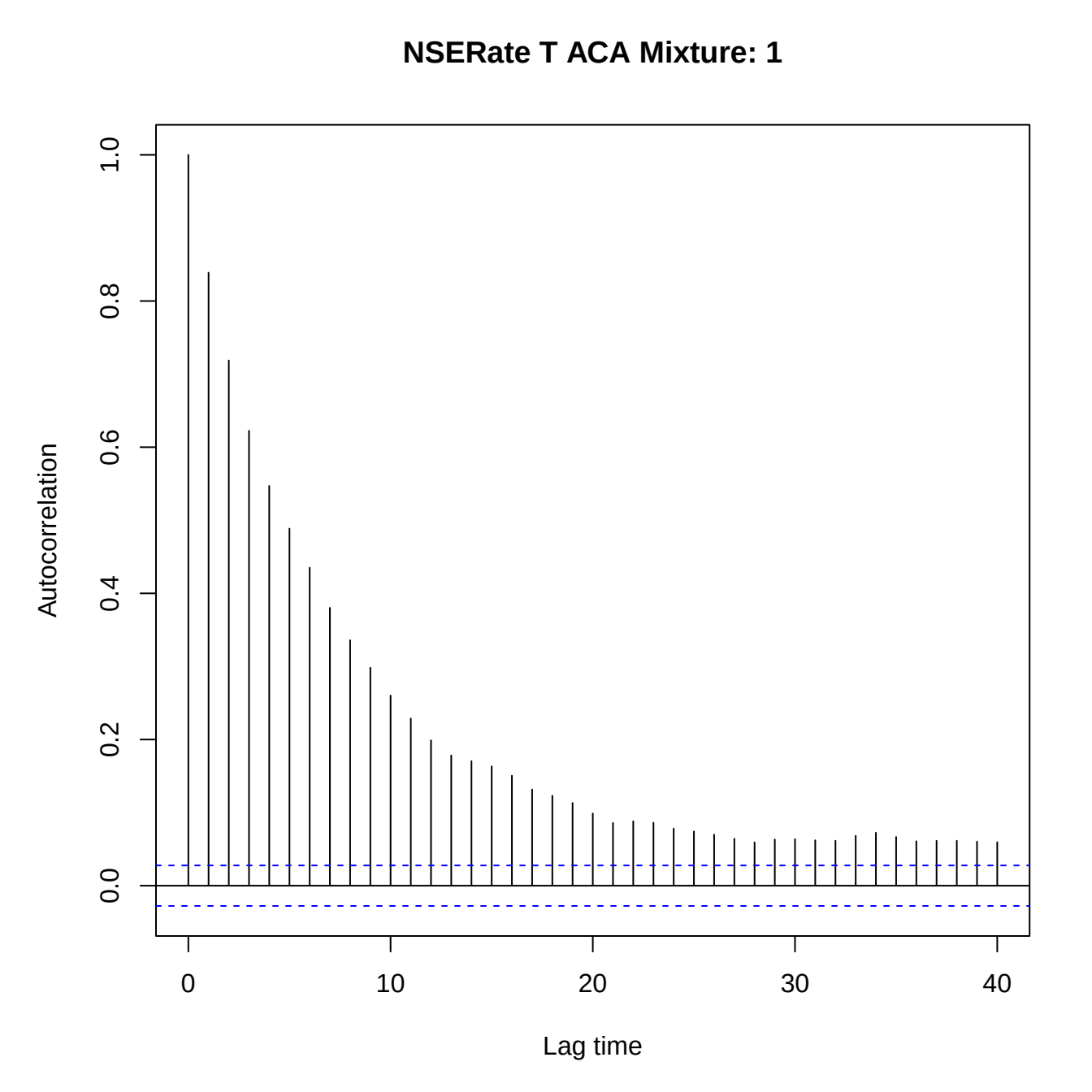
Lag time


NSERate T ACA Mixture: 1
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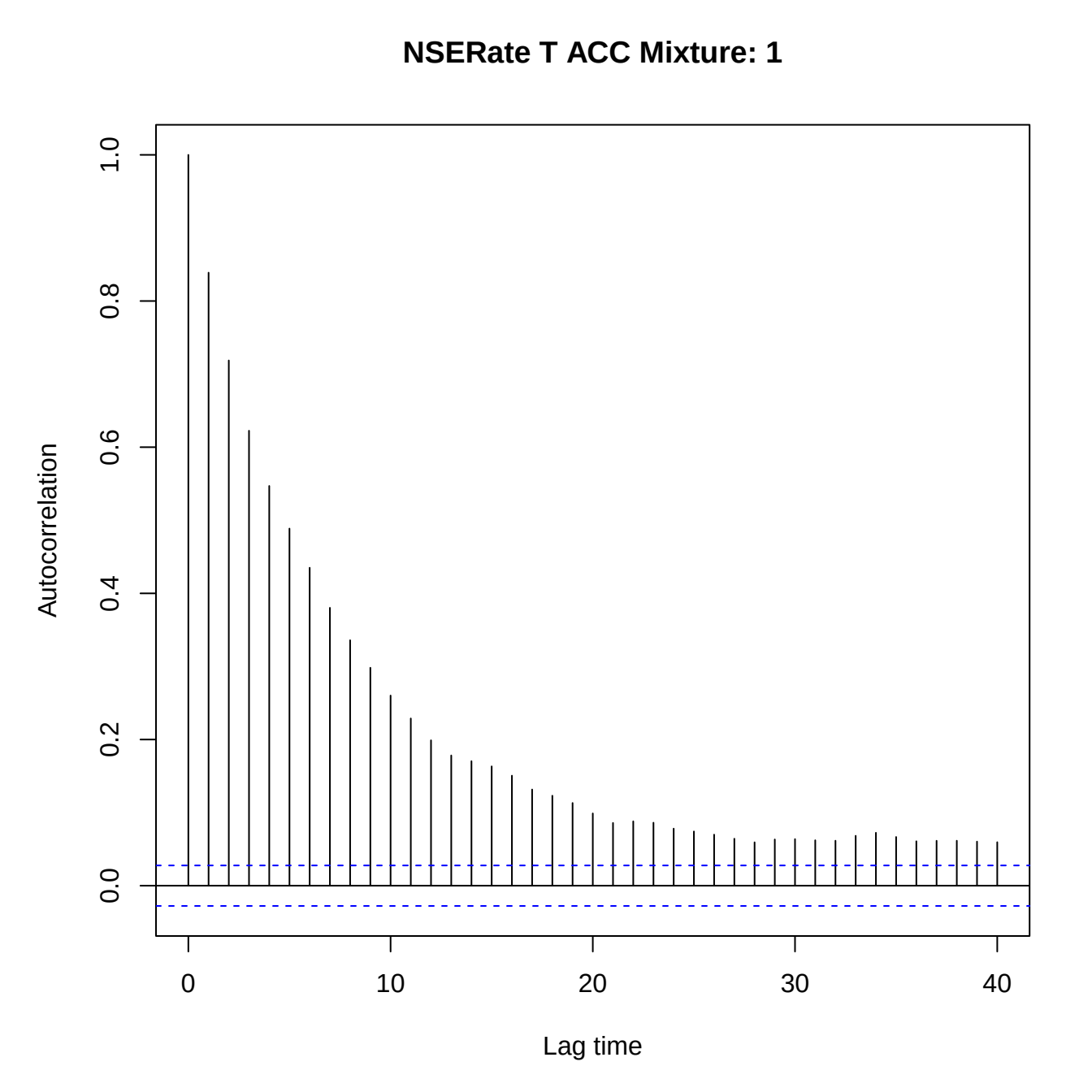
Lag time


NSERate T ACC Mixture: 1
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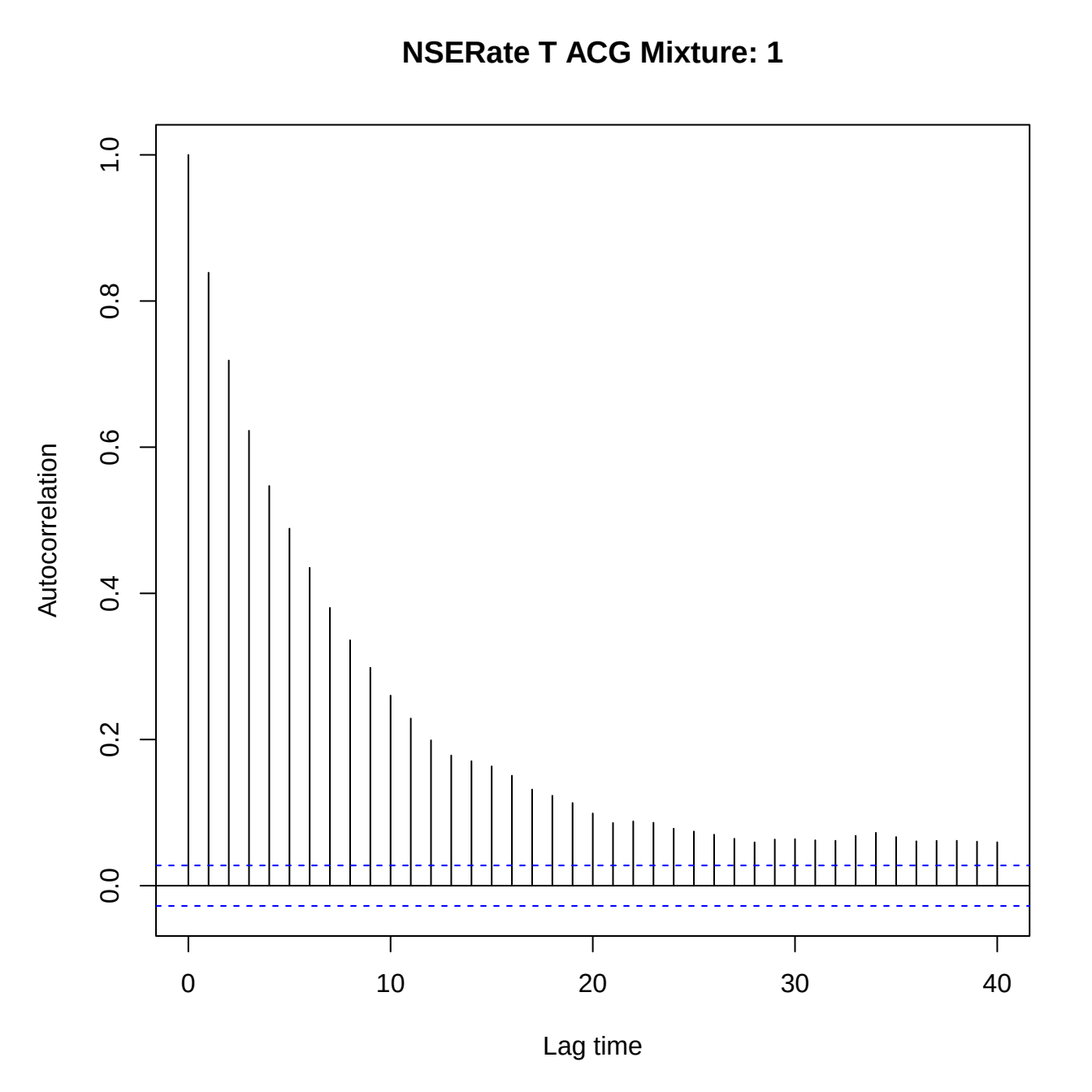
Lag time


NSERate T ACG Mixture: 1
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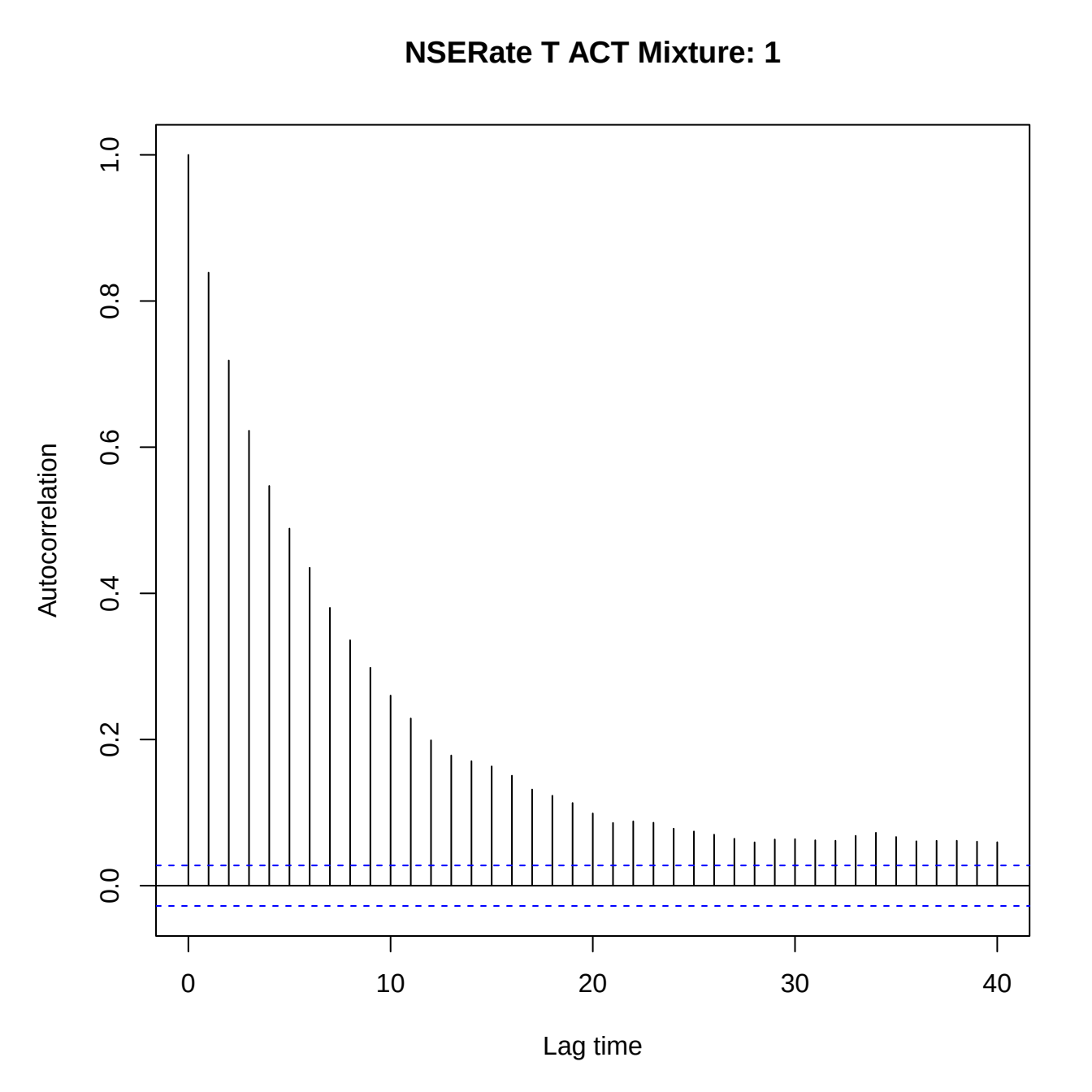
Lag time


NSERate T ACT Mixture: 1
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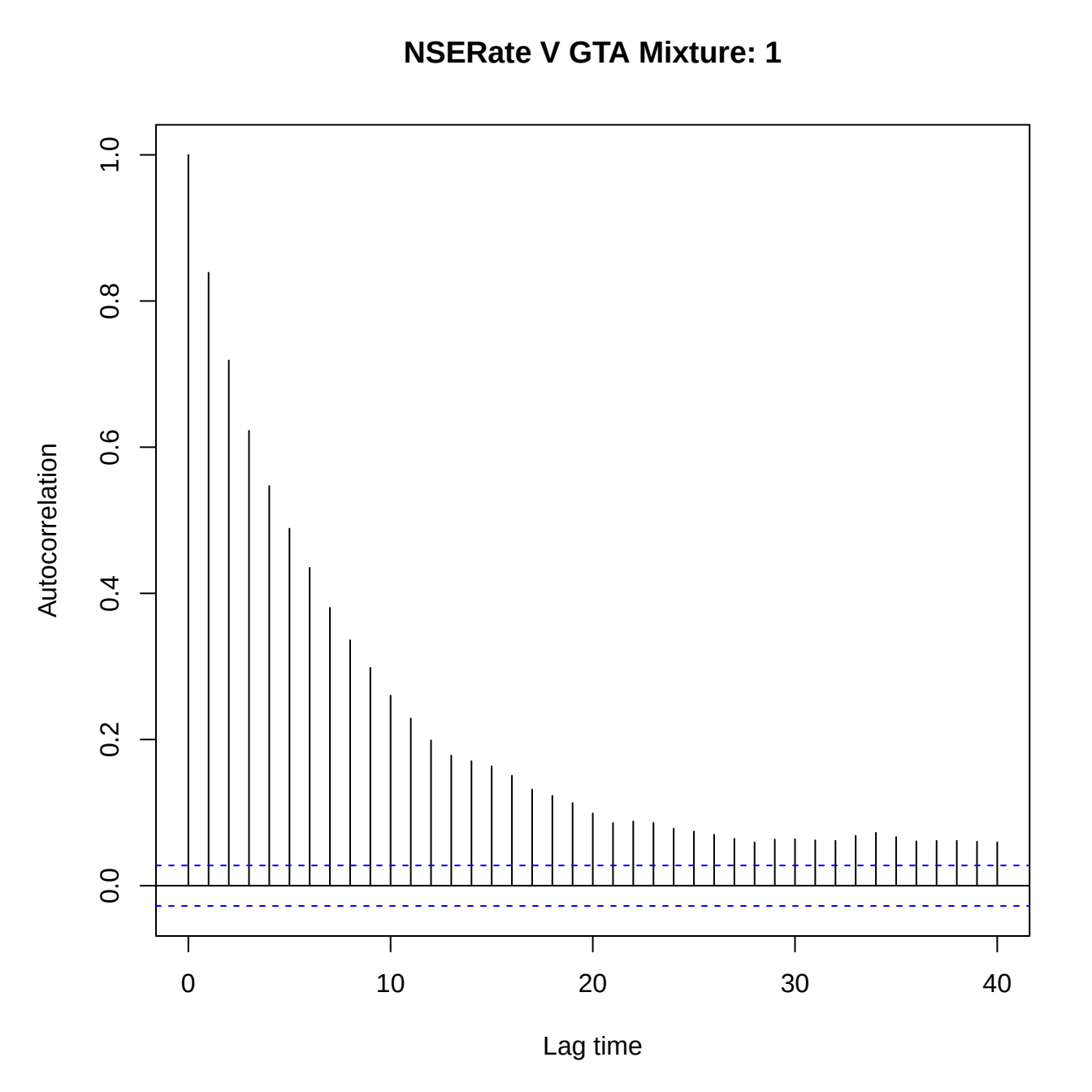
Lag time


NSERate V GTA Mixture: 1
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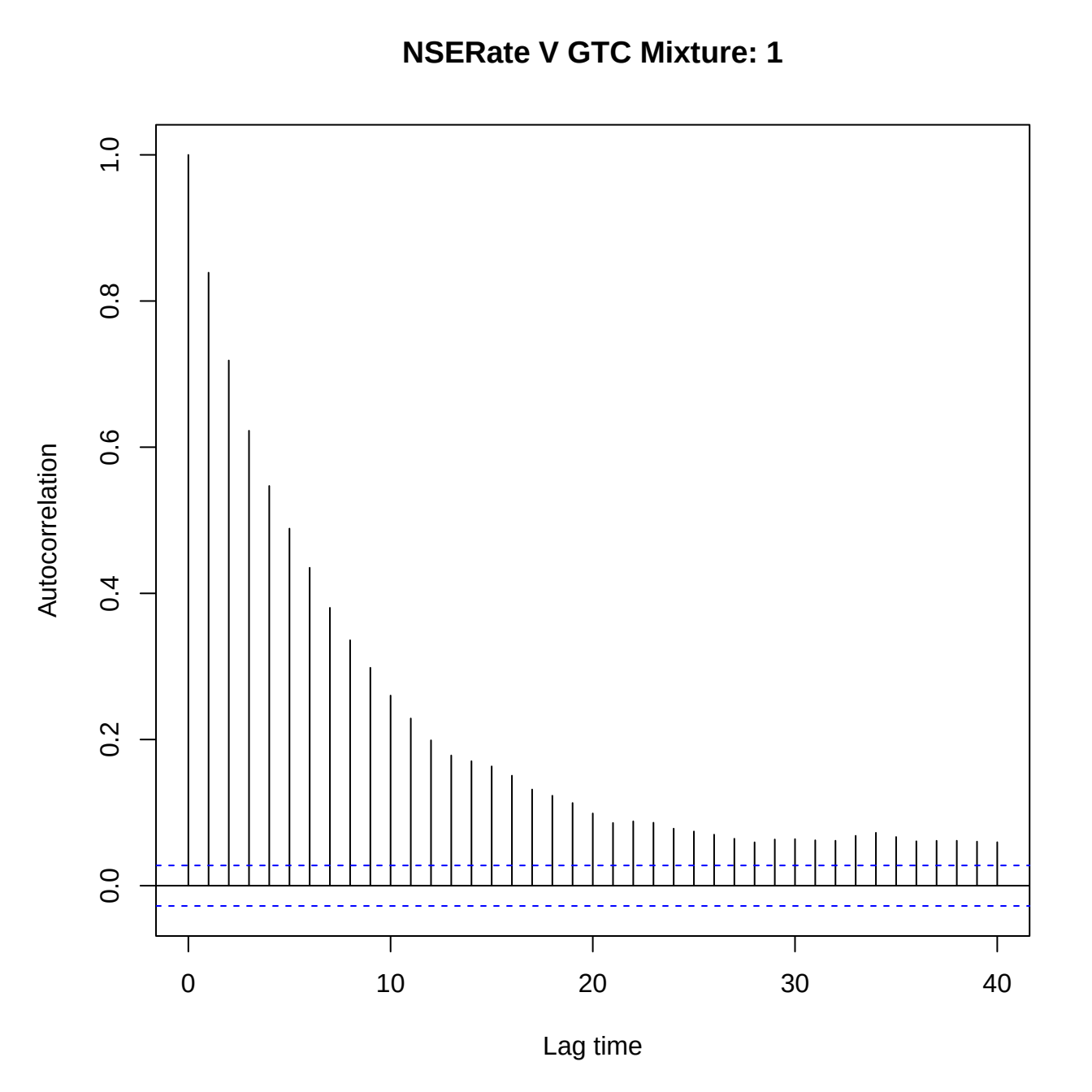
Lag time


NSERate V GTC Mixture: 1
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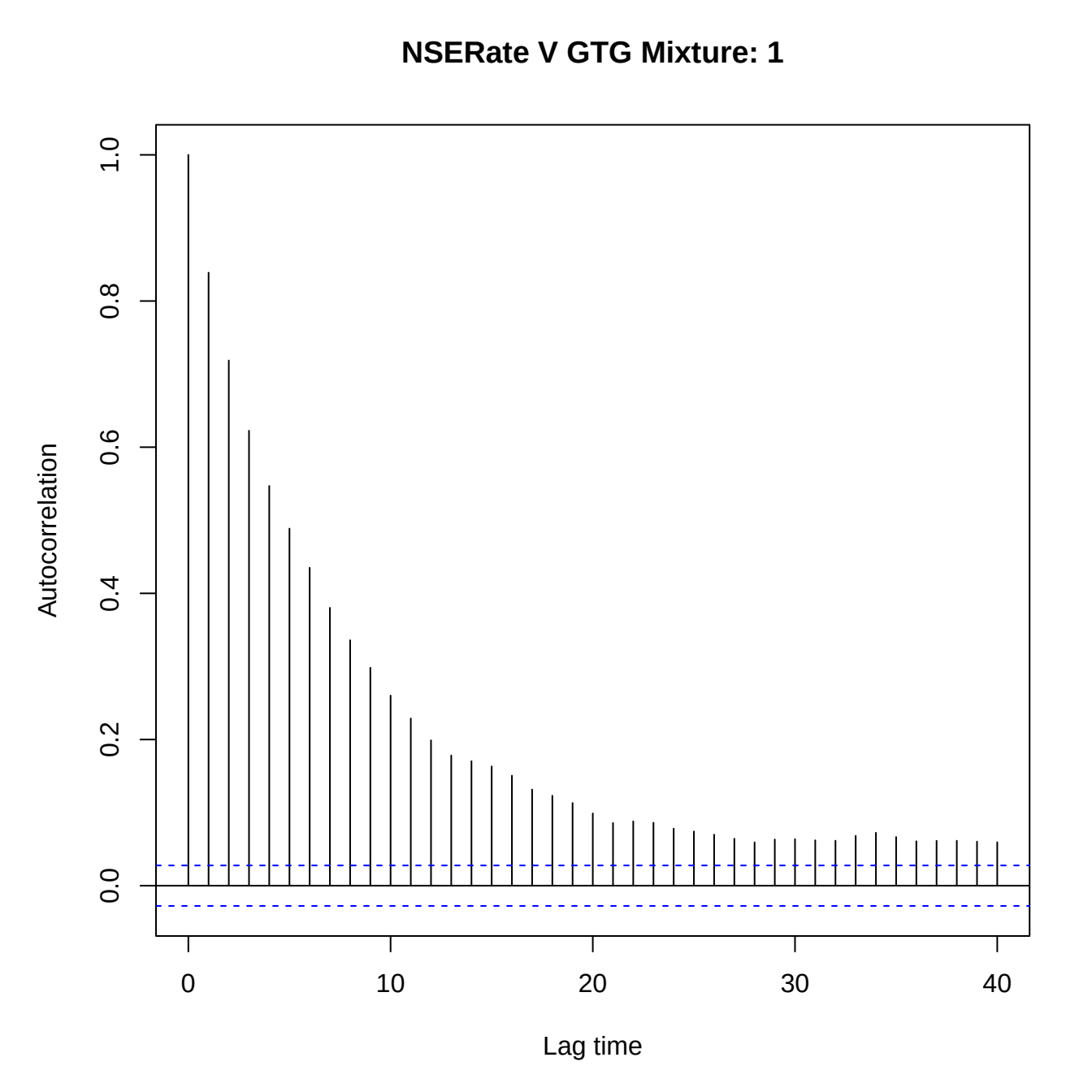
Lag time


NSERate V GTG Mixture: 1
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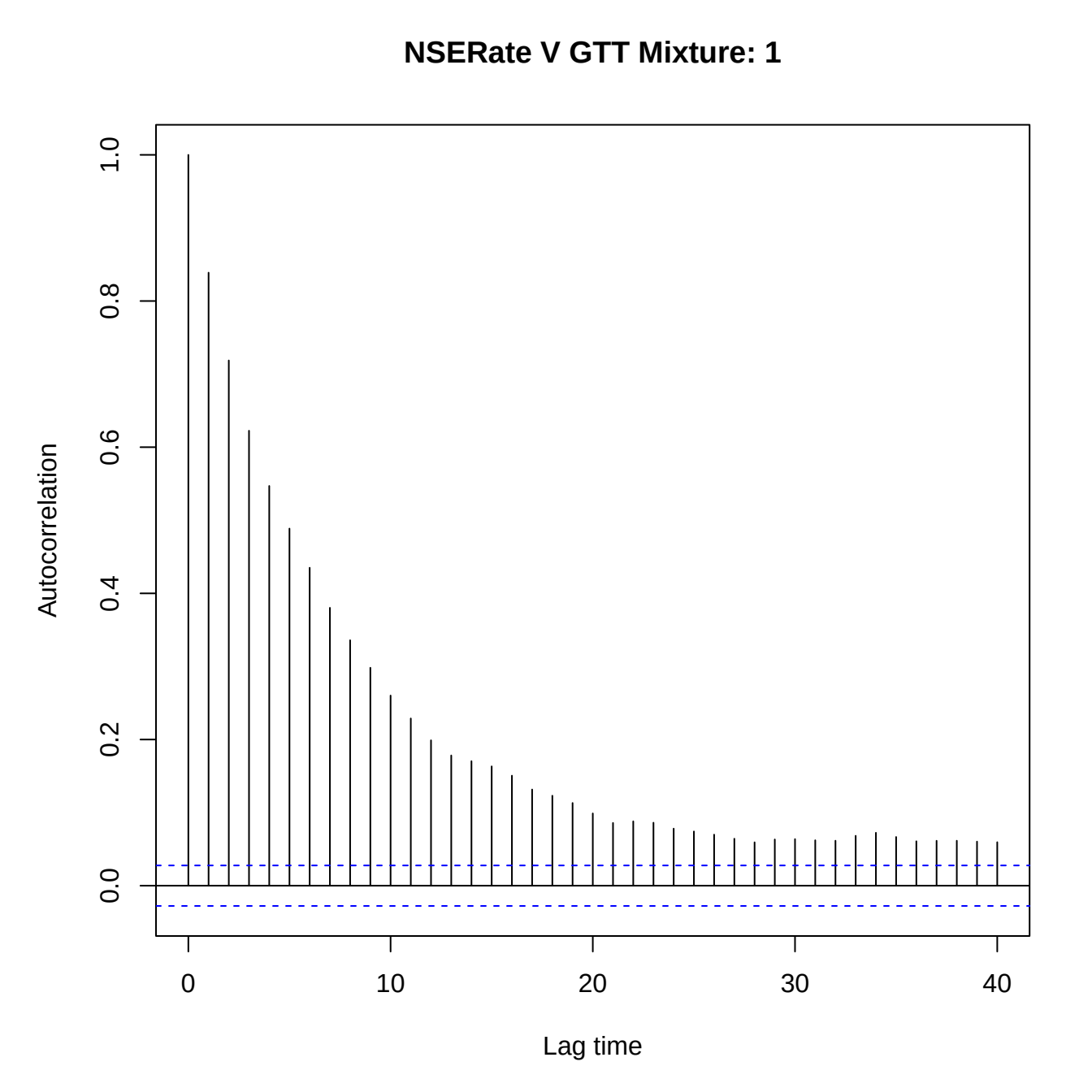
Lag time


NSERate V GTT Mixture: 1
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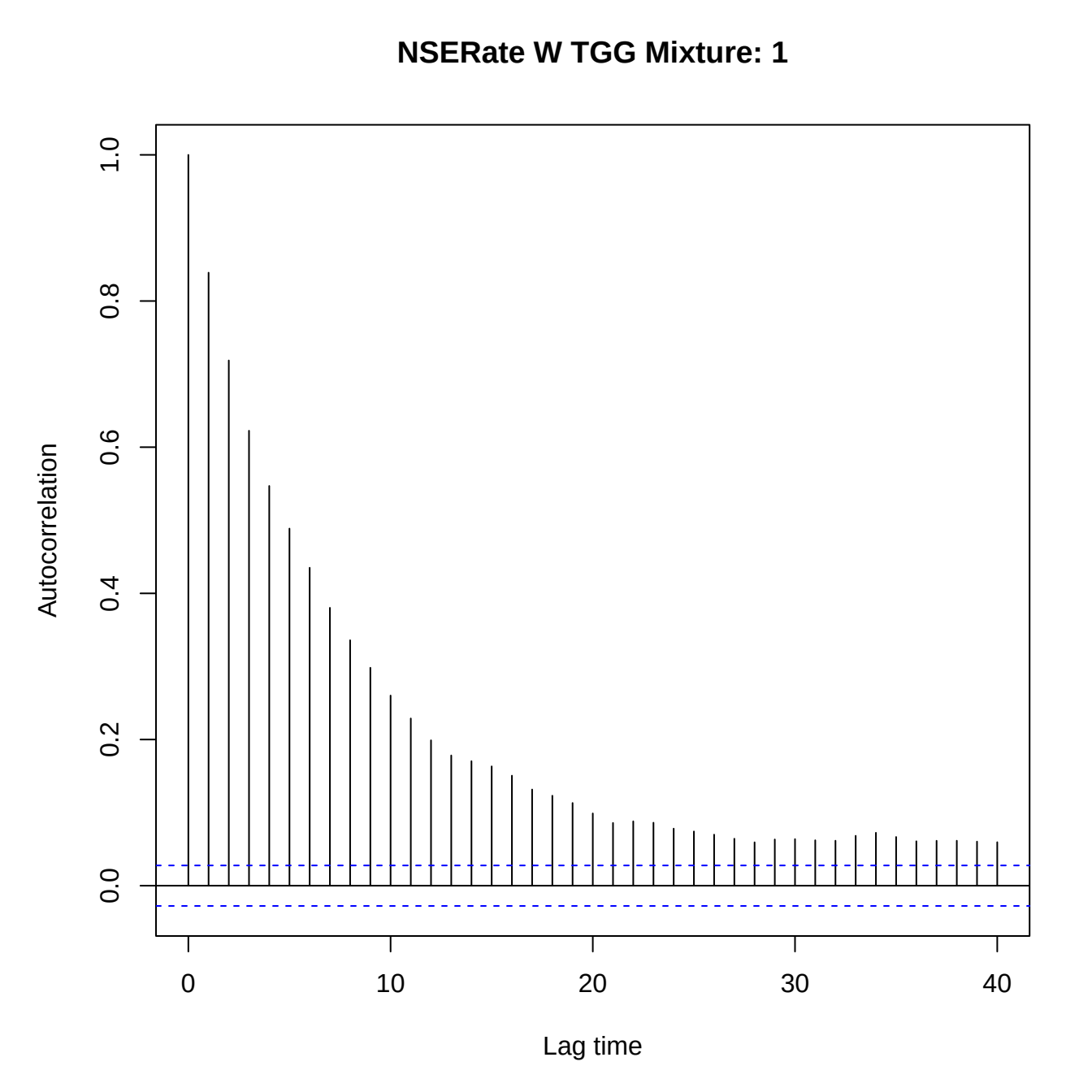
Lag time


NSERate W TGG Mixture: 1
Autocorrelation
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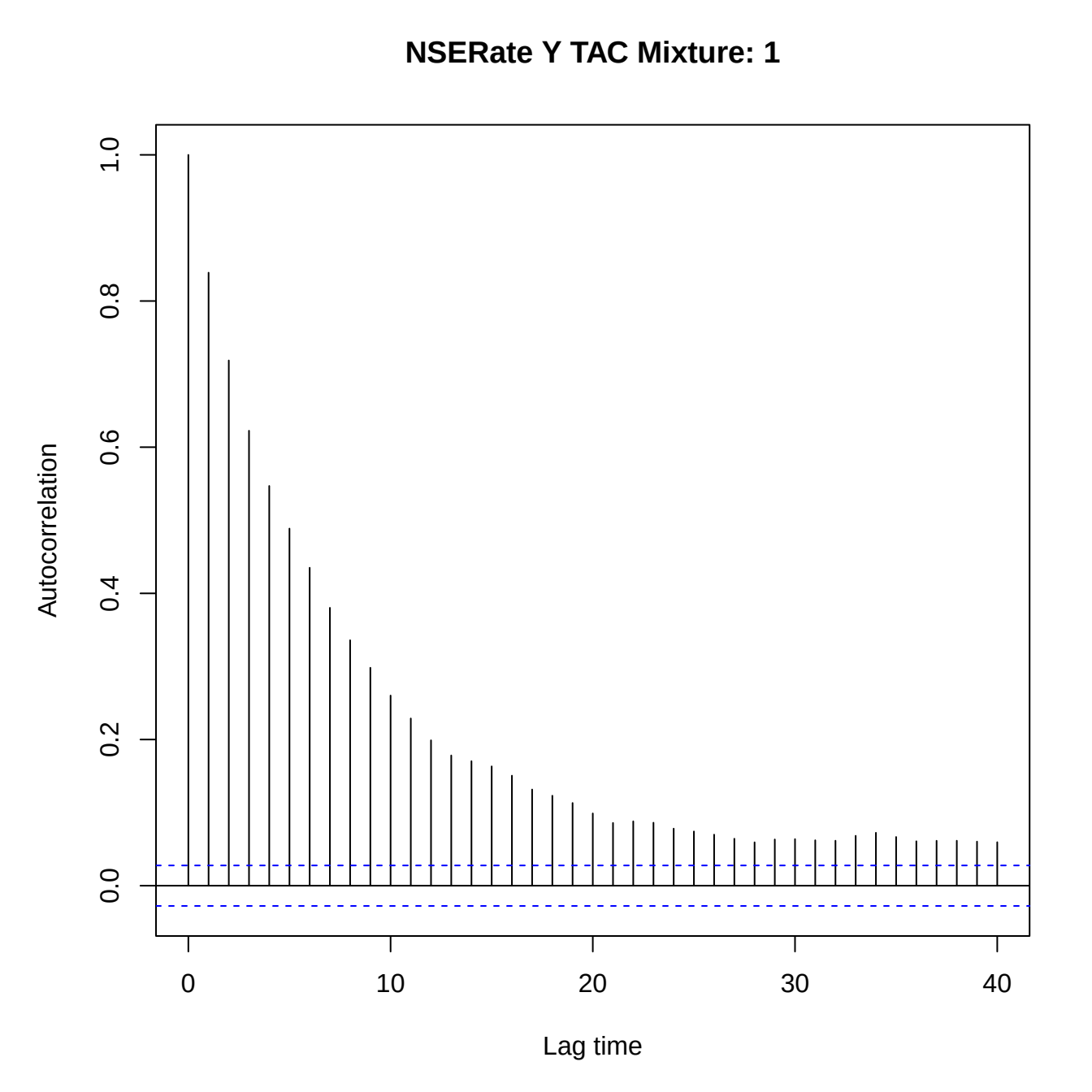
Lag time


NSERate Y TAC Mixture: 1
Autocorrelation
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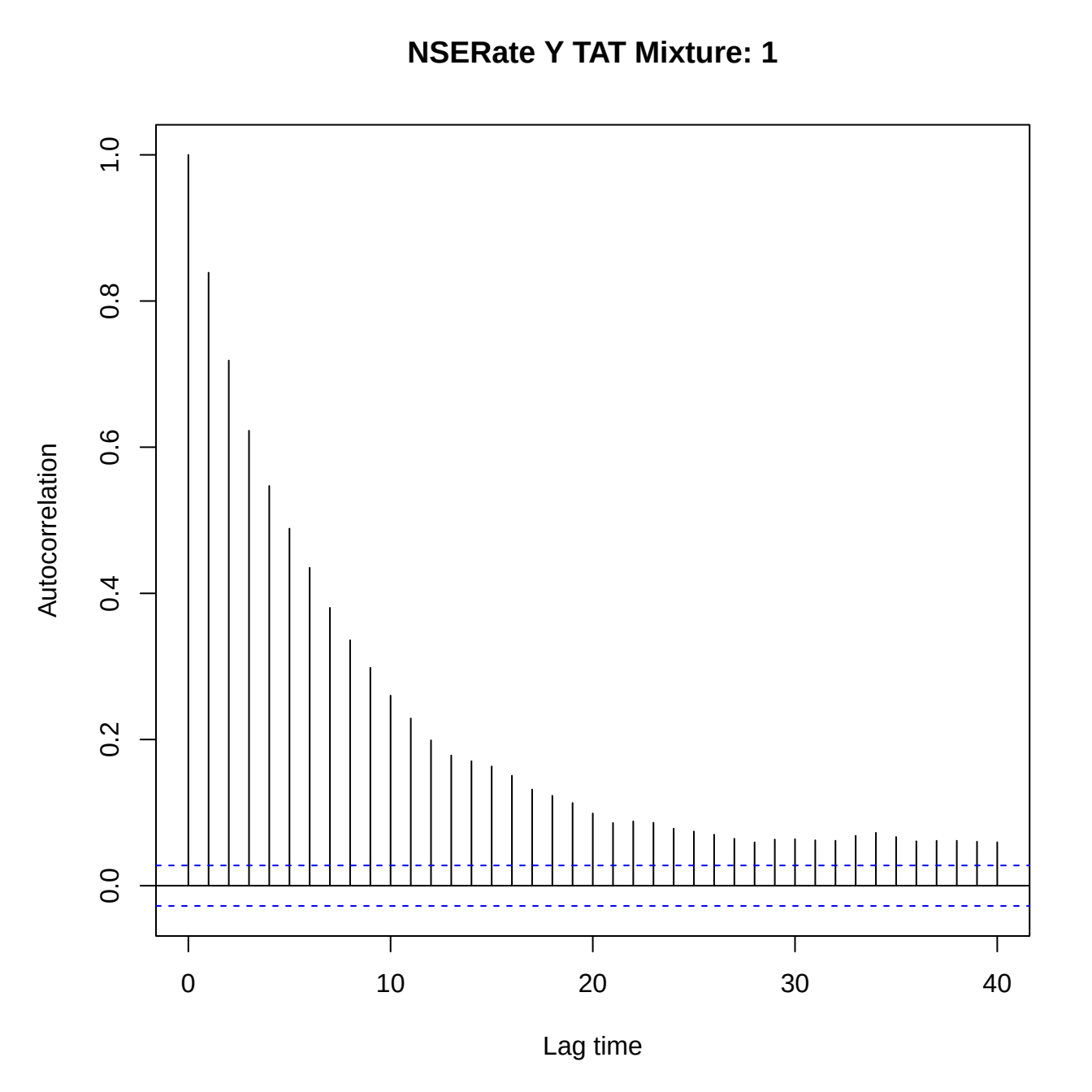
Lag time


NSERate Y TAT Mixture: 1
Autocorrelation
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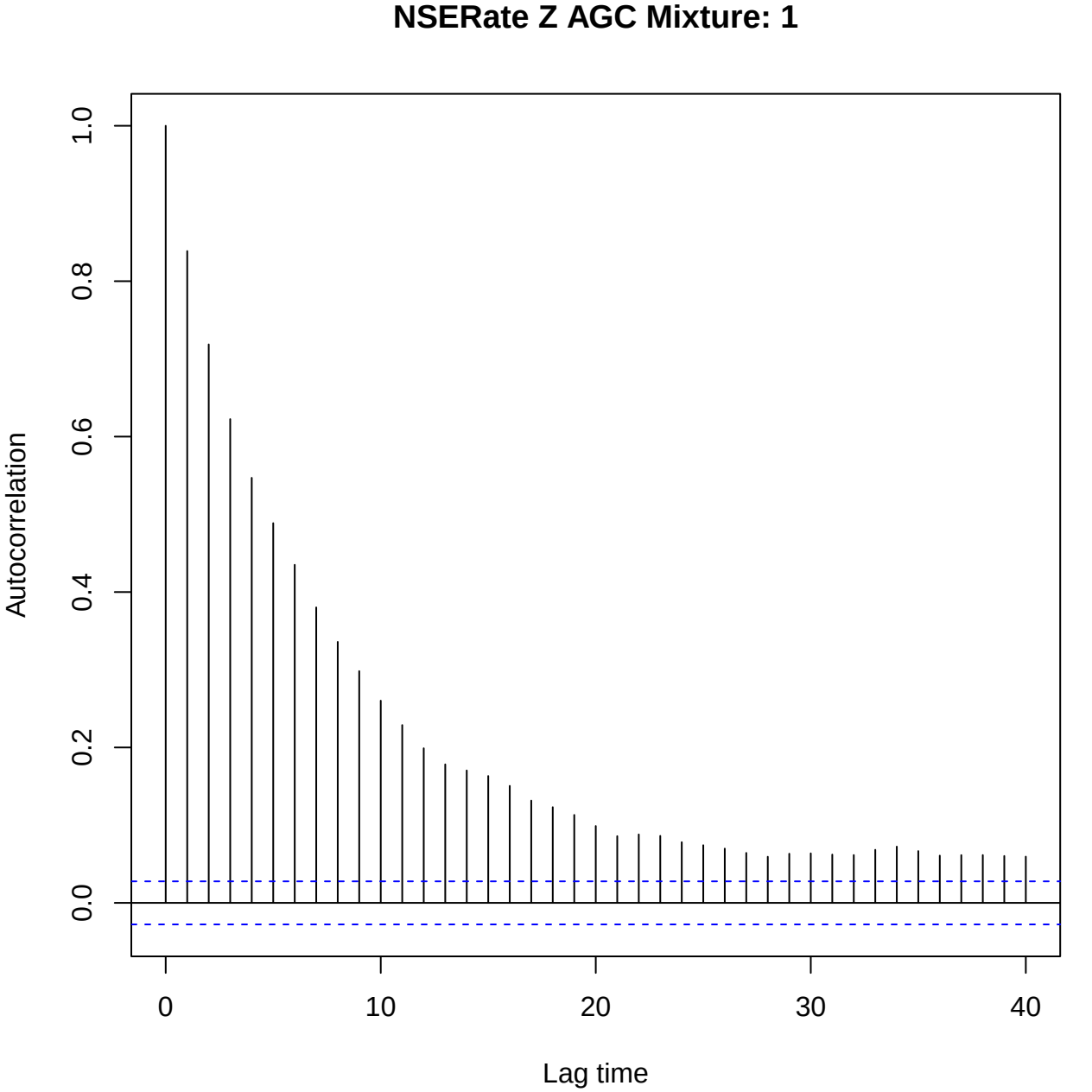
Lag time


NSERate Z AGC Mixture: 1
Autocorrelation
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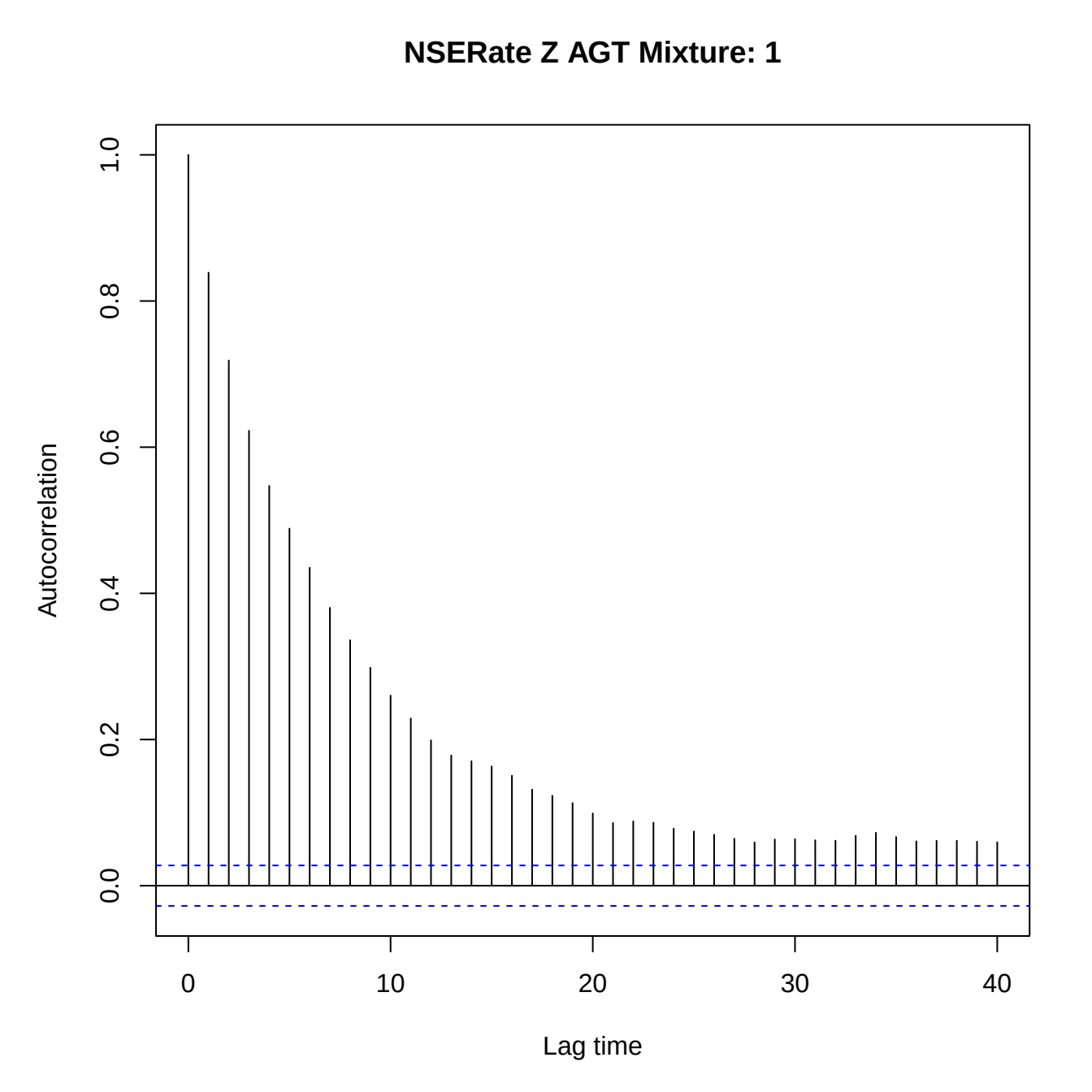
Lag time


NSERate Z AGT Mixture: 1
Autocorrelation
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0.4
0.2
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0
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20
30
40
Lag time