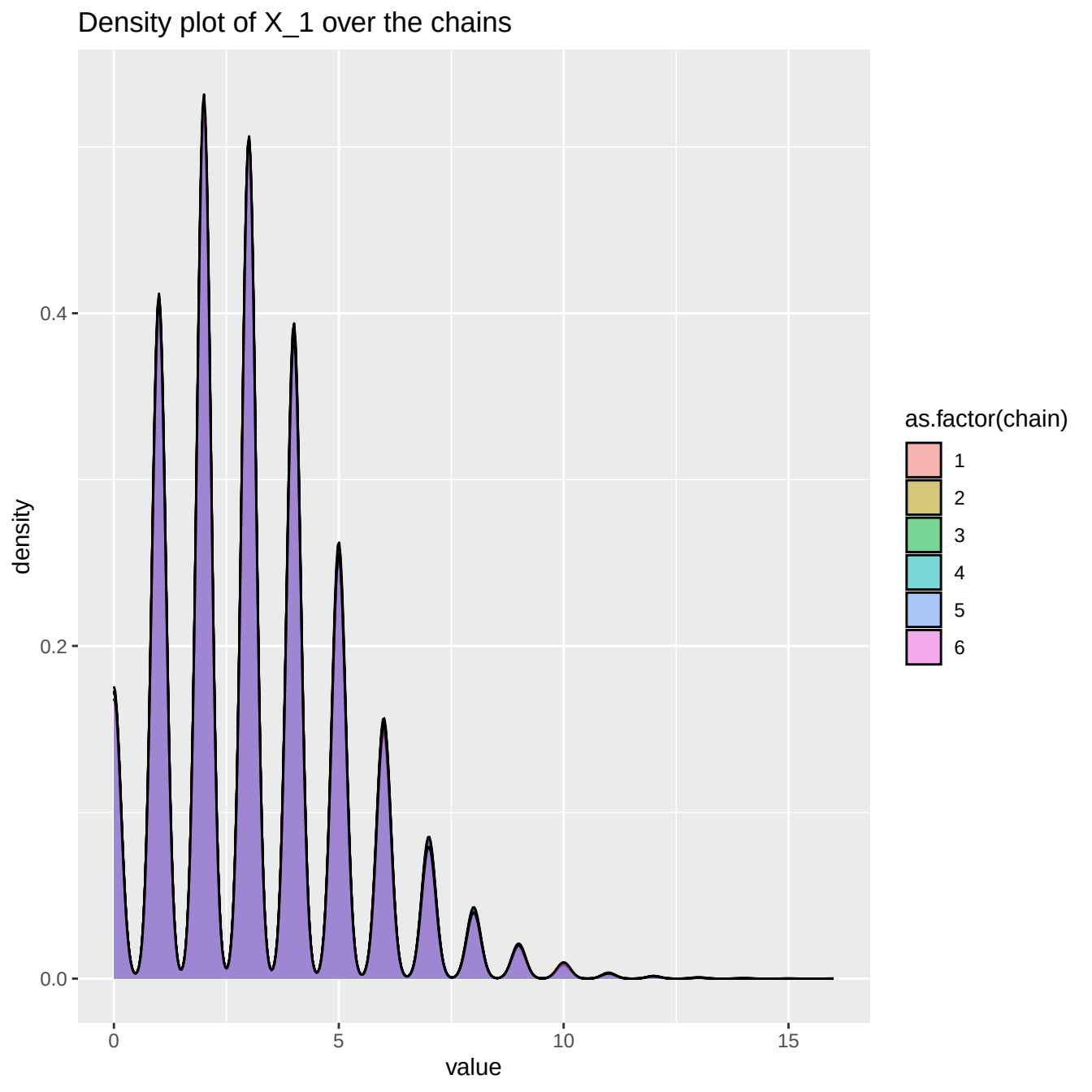
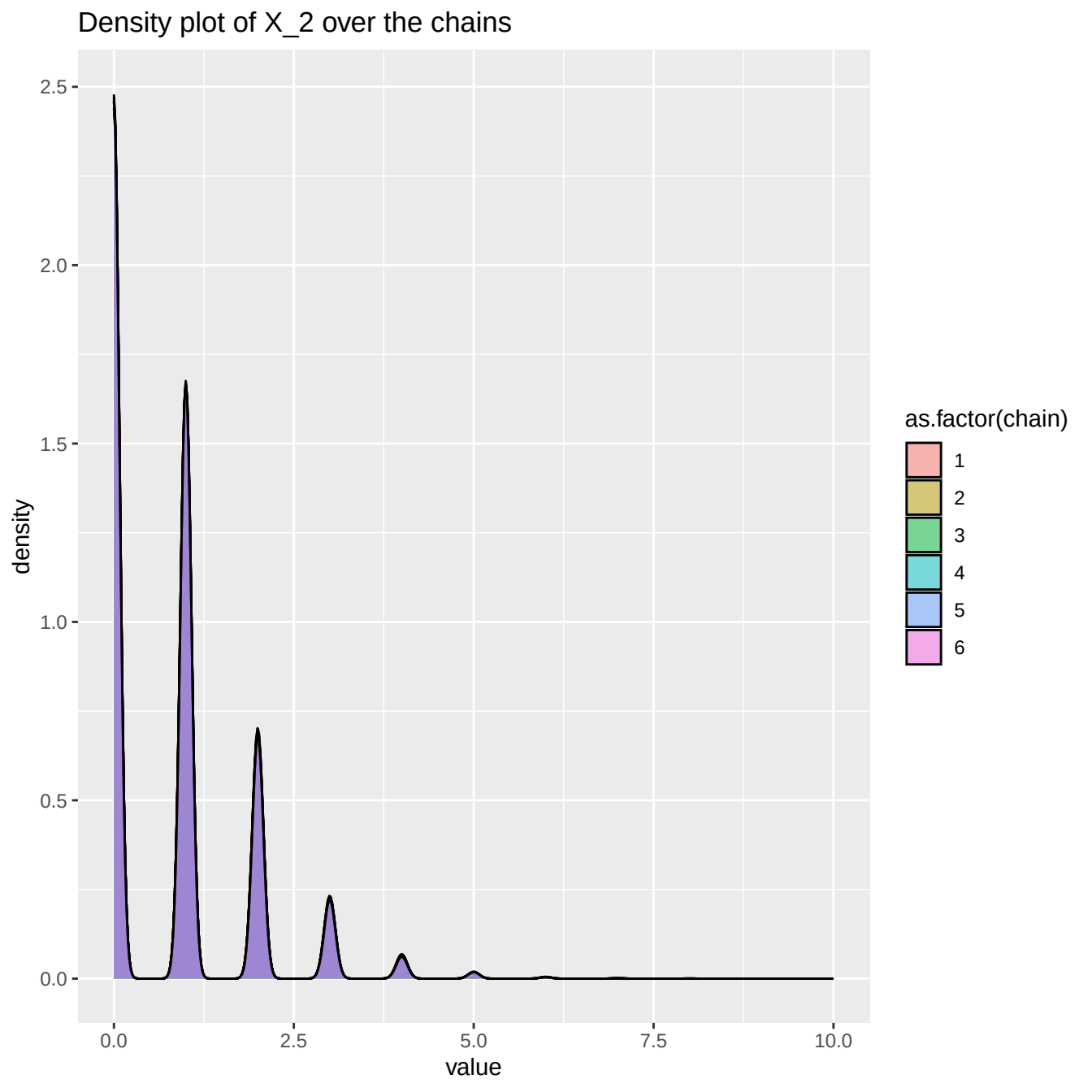
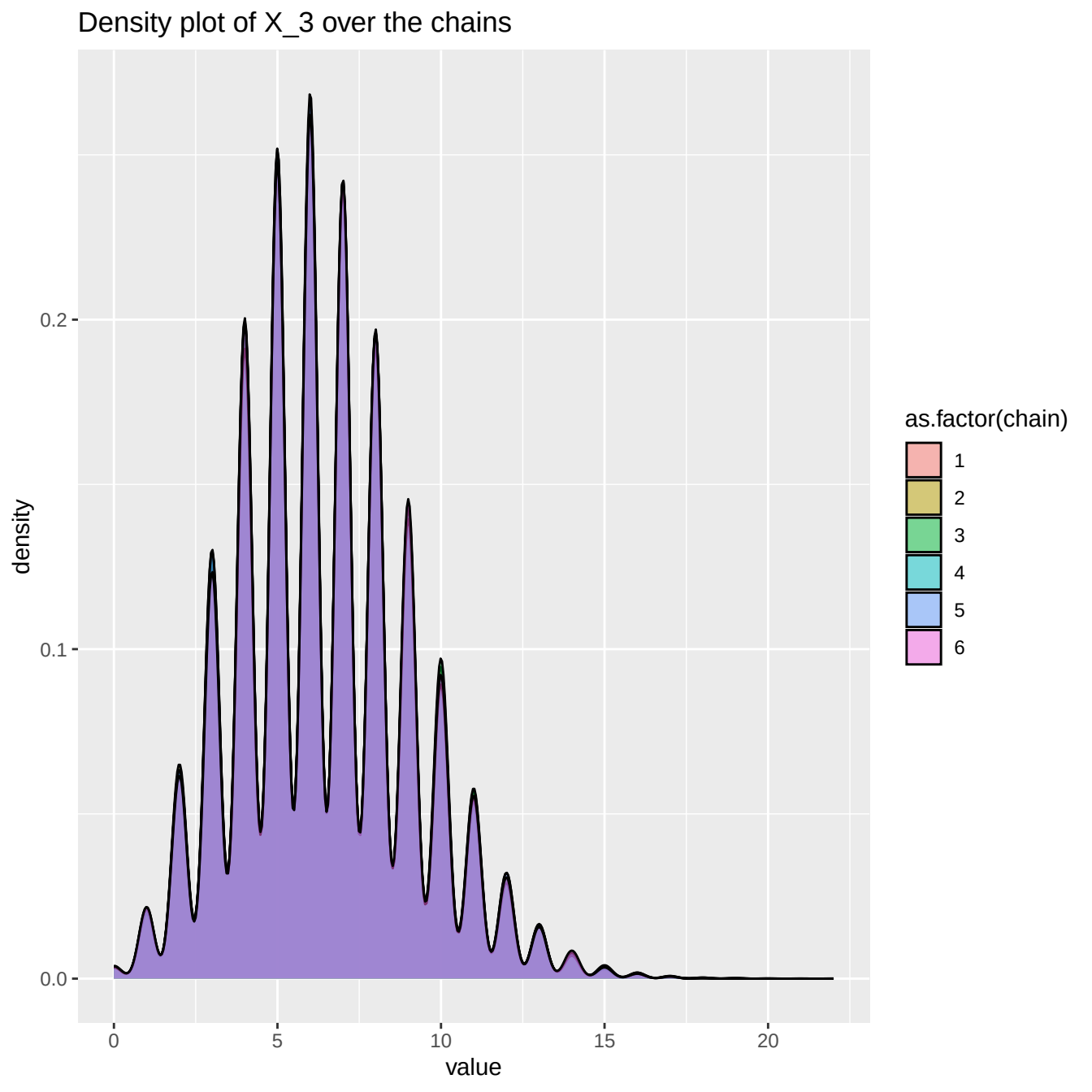
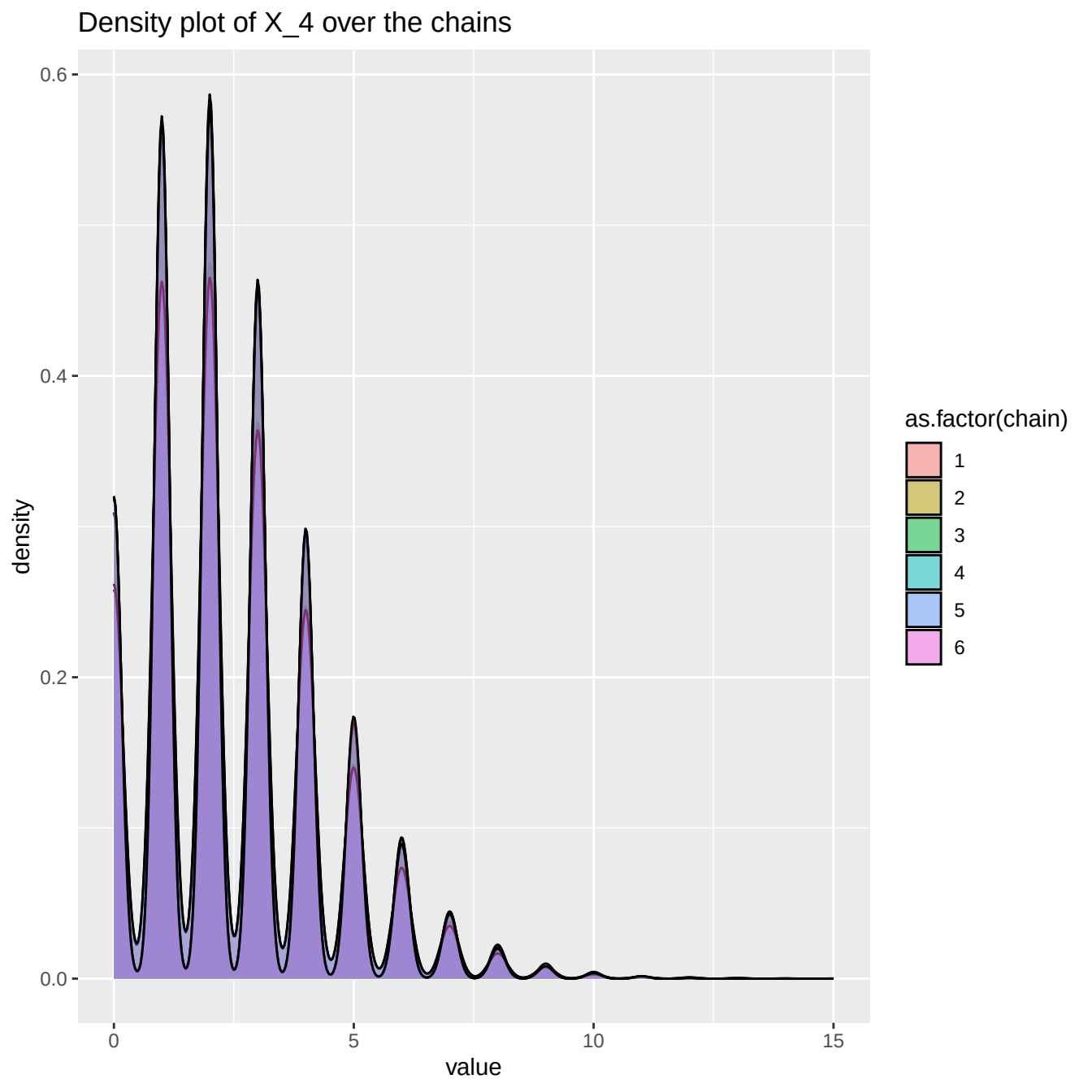
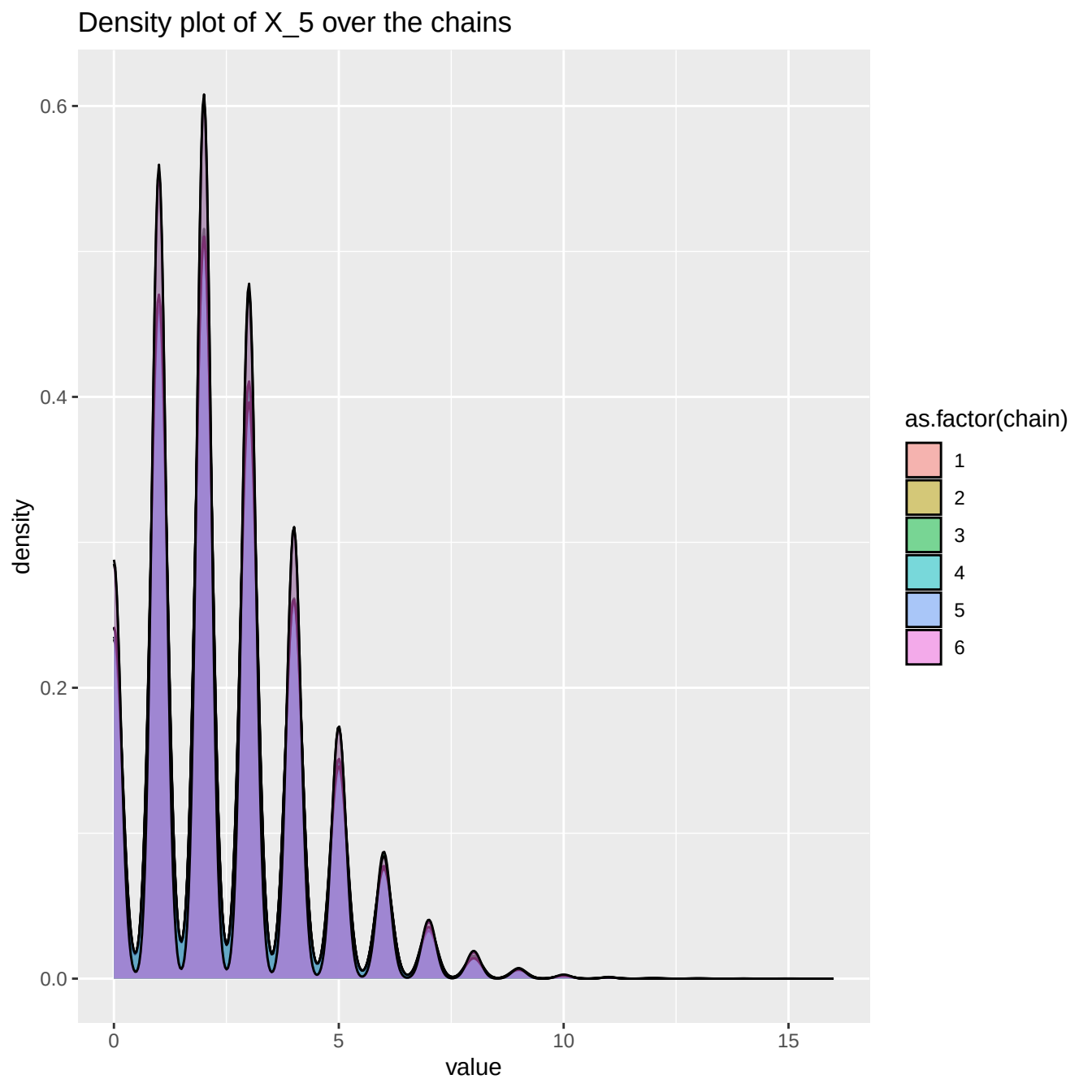
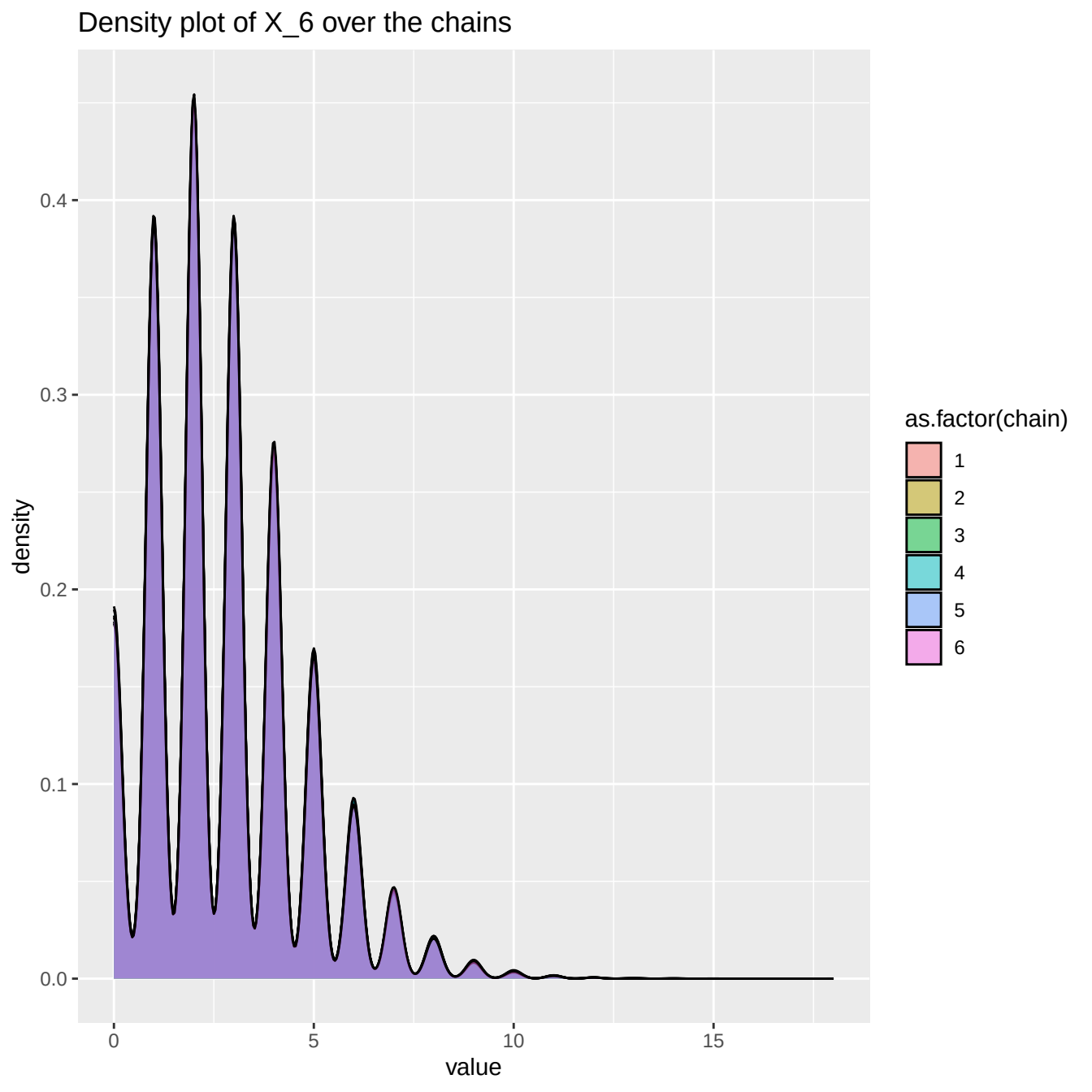

Density plot of X_1 over the chains
density
0.0
0.2
0.4
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

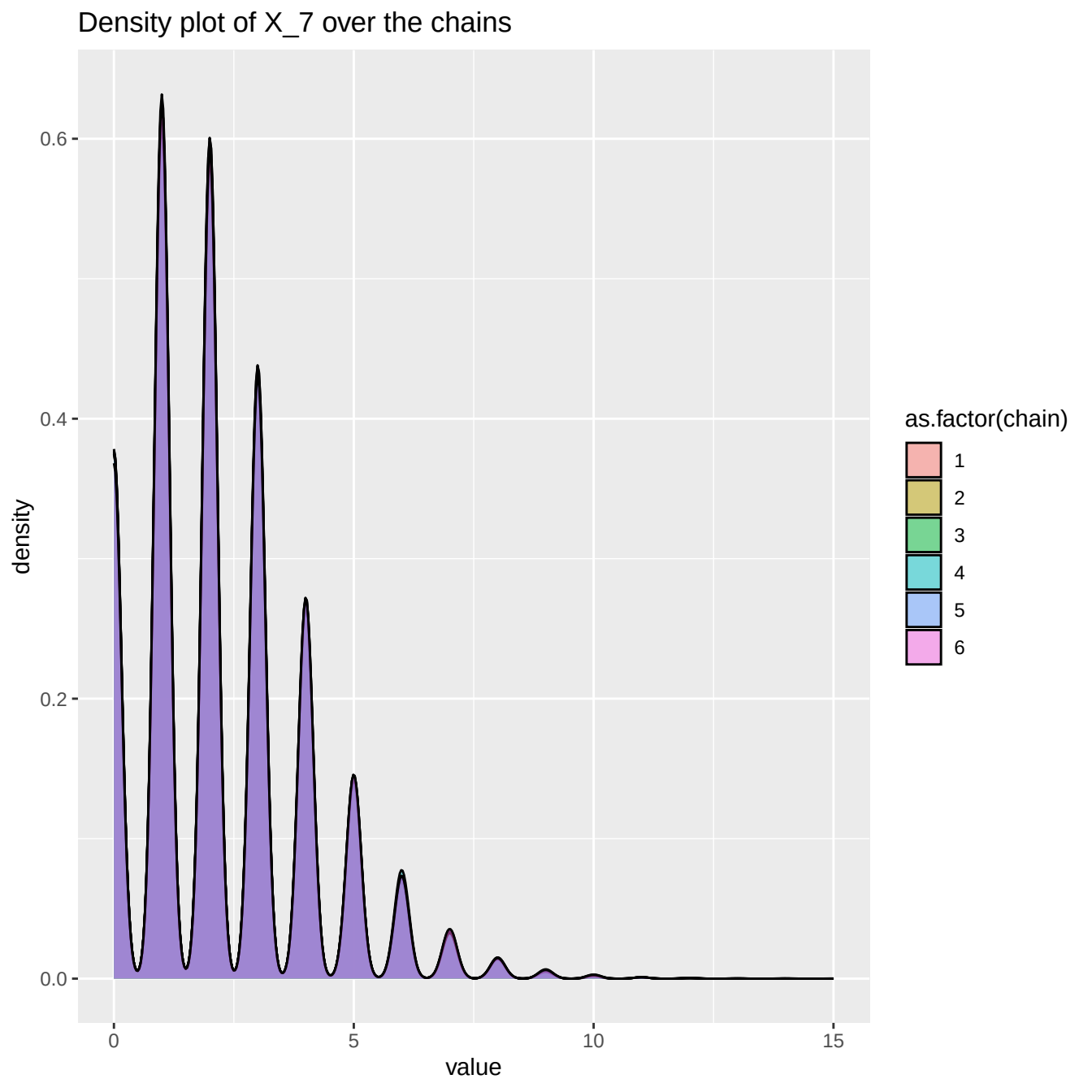

Density plot of X_2 over the chains
density
value
0.0
0.5
1.0
1.5
2.0
2.5
0.0
2.5
5.0
7.5
10.0
as.factor(chain)
1
2
3
4
5
6

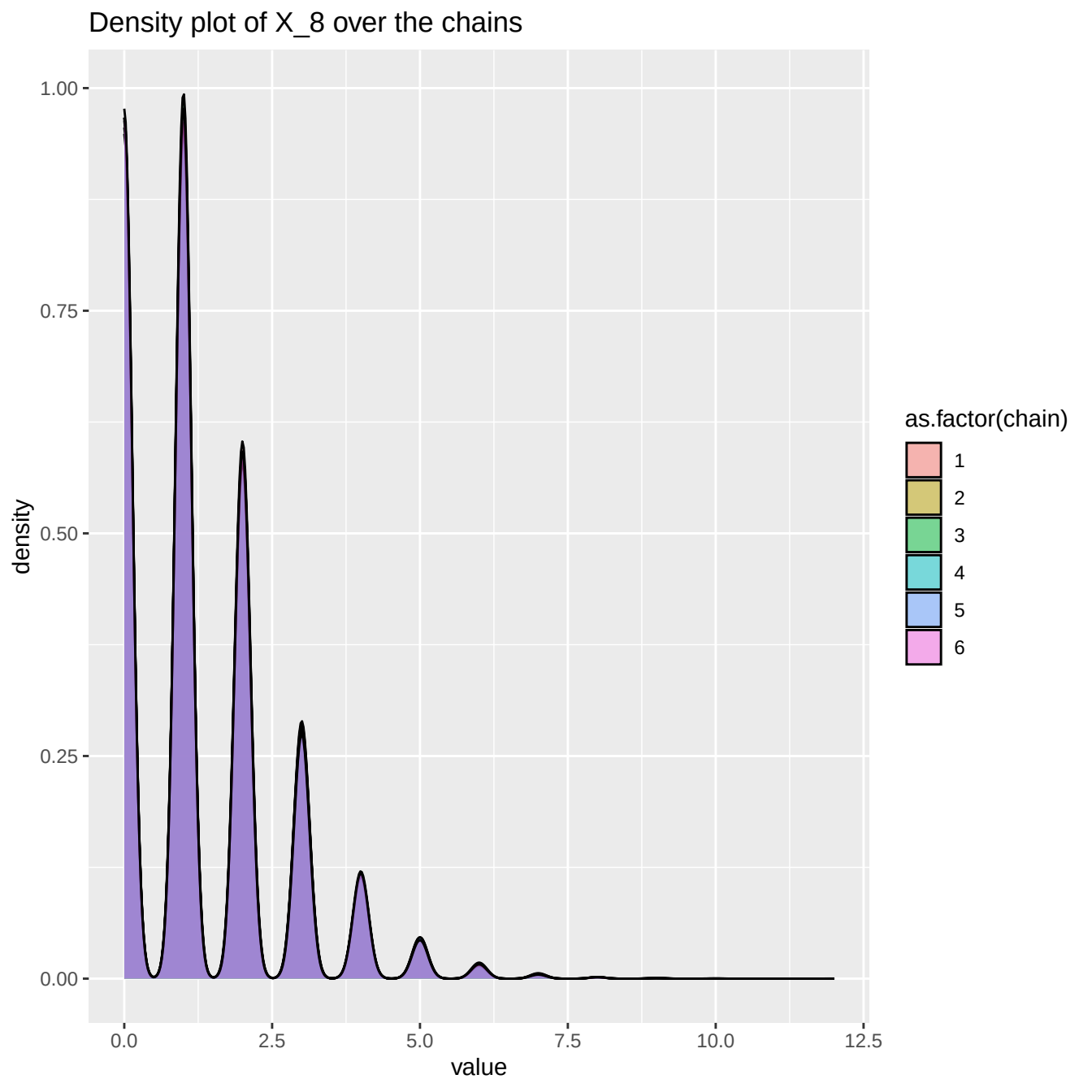

Density plot of X_3 over the chains
density
0.0
0.1
0.2
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

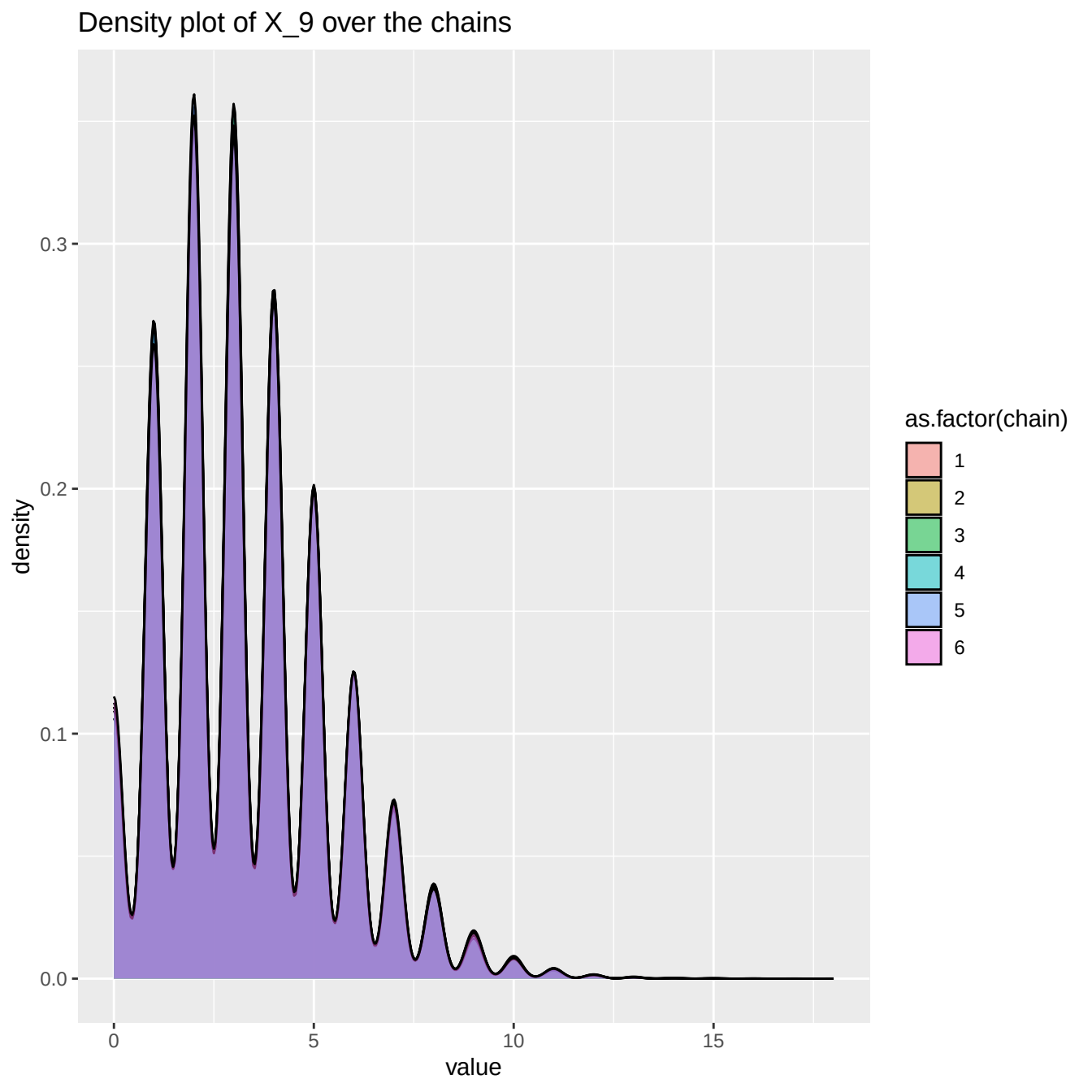

Density plot of X_4 over the chains
0.6
0.4
0.2
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

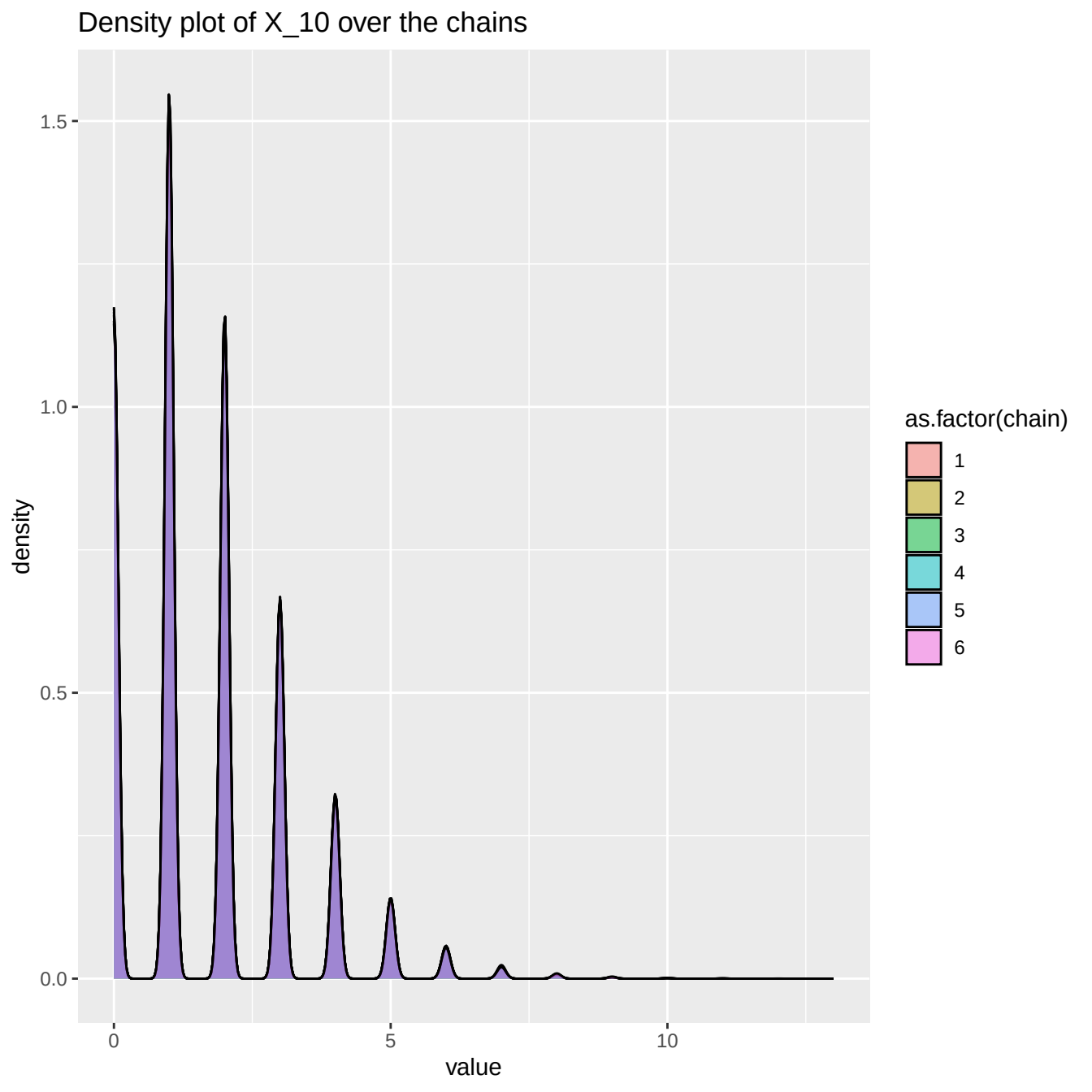

Density plot of X_5 over the chains
density
value
0.0
0.2
0.4
0.6
0
5
10
15
as.factor(chain)
1
2
3
4
5
6

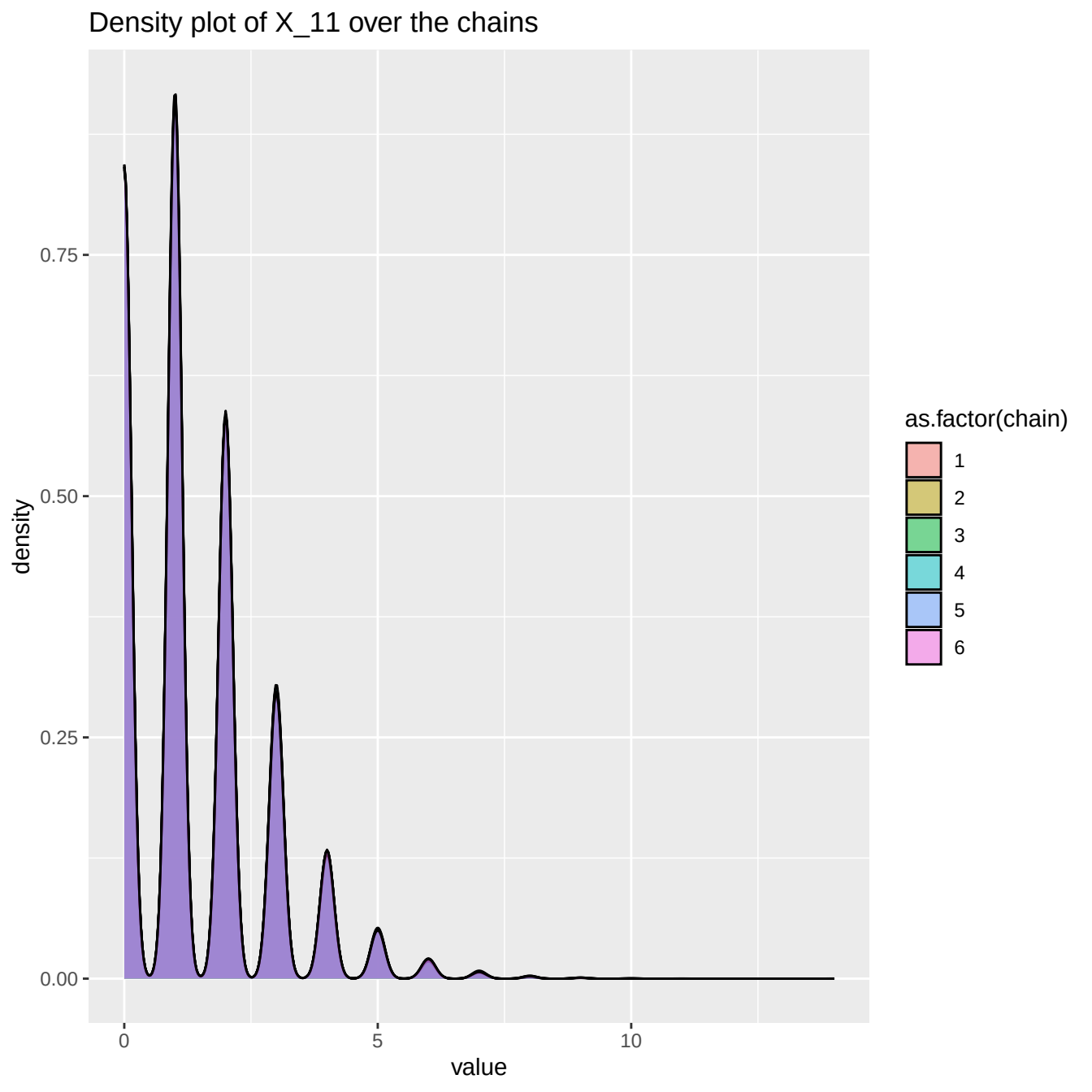

Density plot of X_6 over the chains
density
0.0
0.1
0.2
0.3
0.4
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

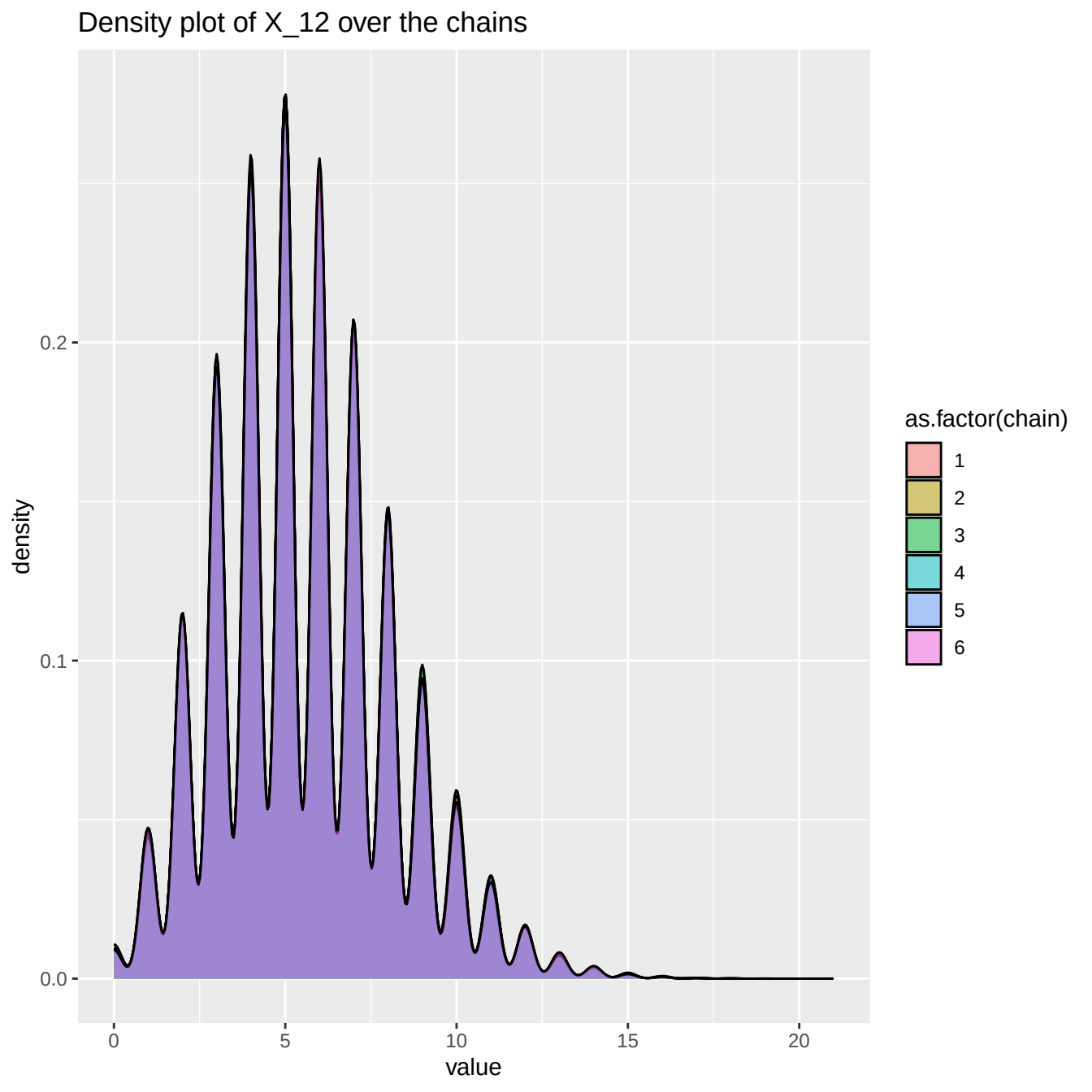

Density plot of X_7 over the chains
0.6
0.4
0.2
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

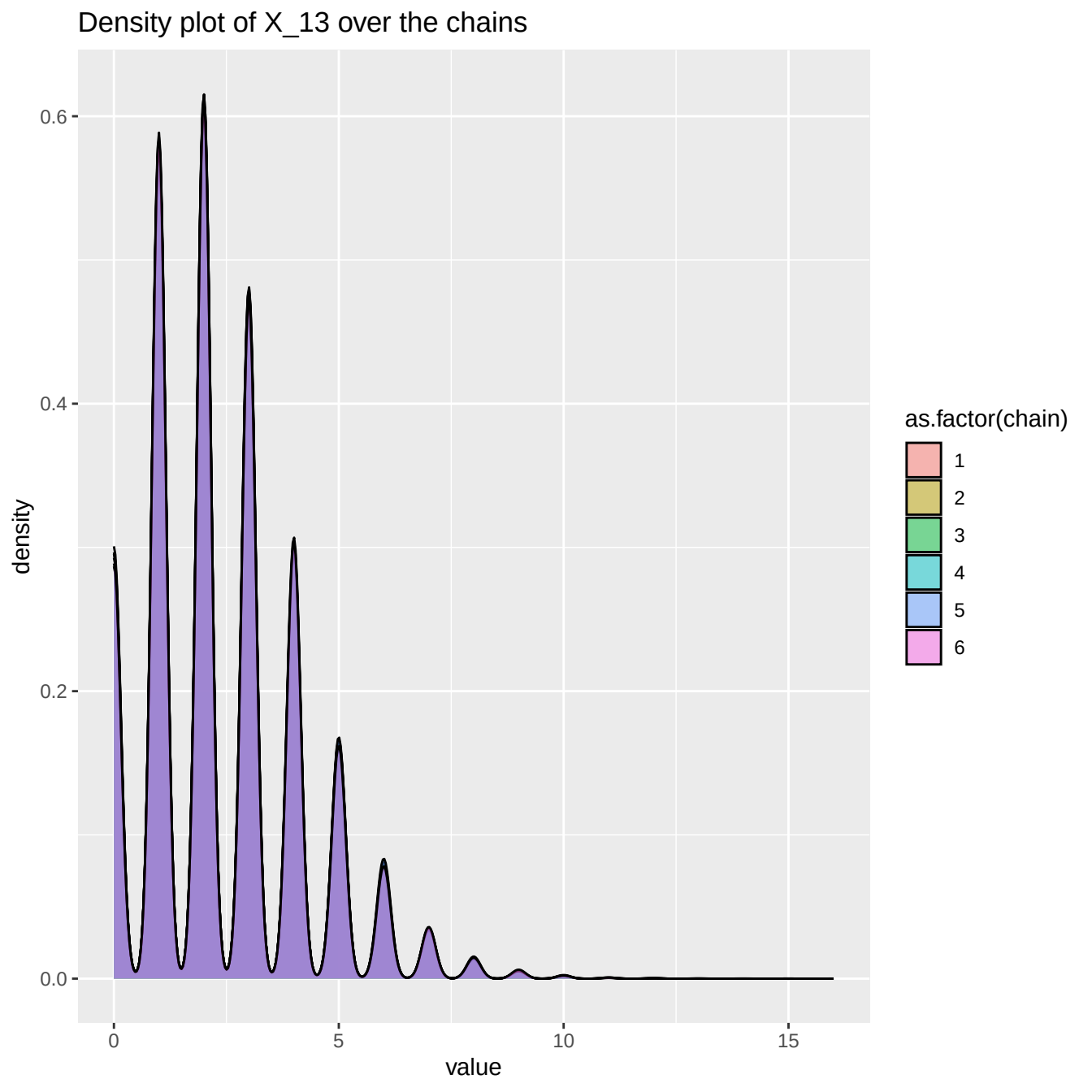

Density plot of X_8 over the chains
1.00
0.75
0.50
0.25
0.00
density
0.0
2.5
5.0
7.5
10.0
12.5
value
as.factor(chain)
1
2
3
4
5
6

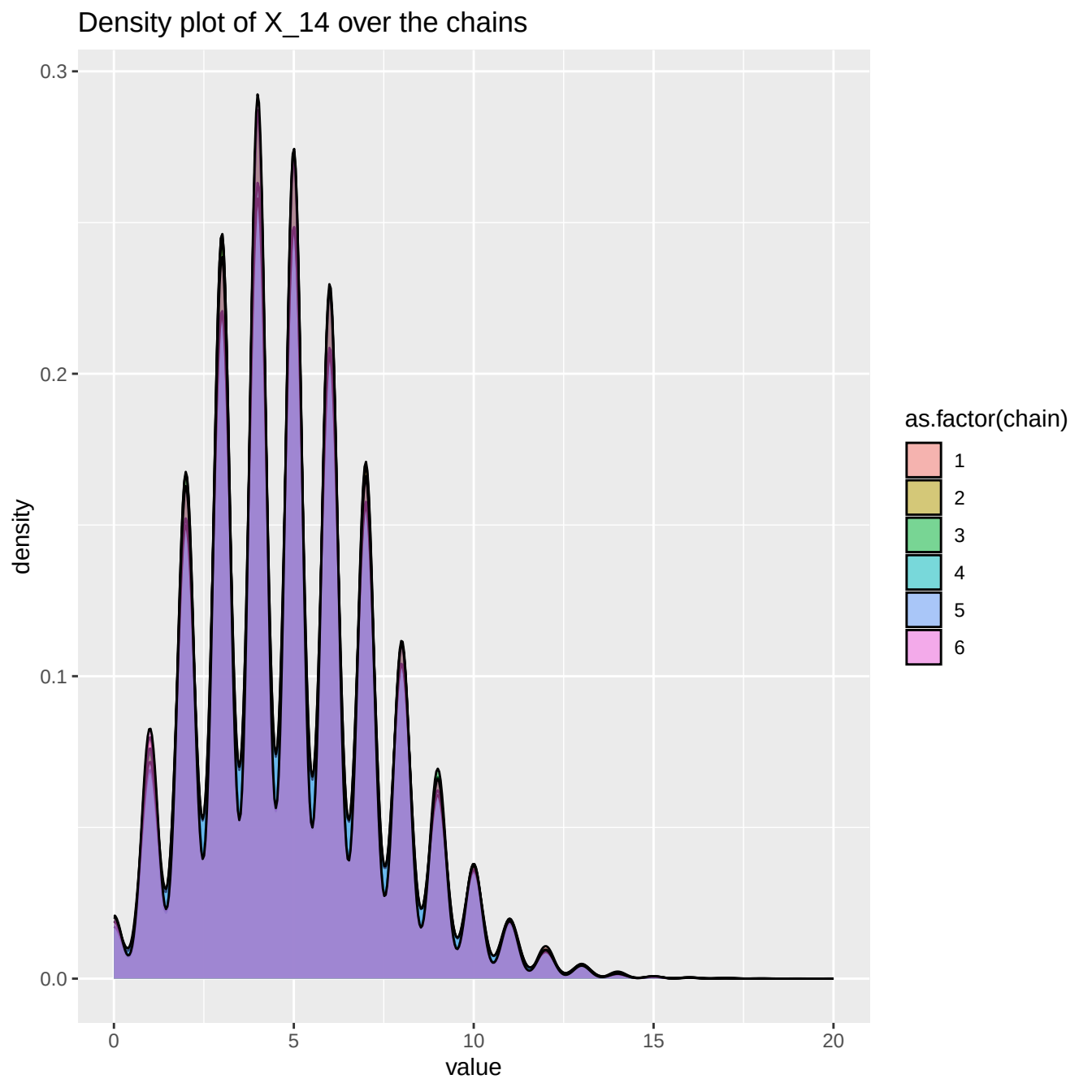

Density plot of X_9 over the chains
density
0.0
0.1
0.2
0.3
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

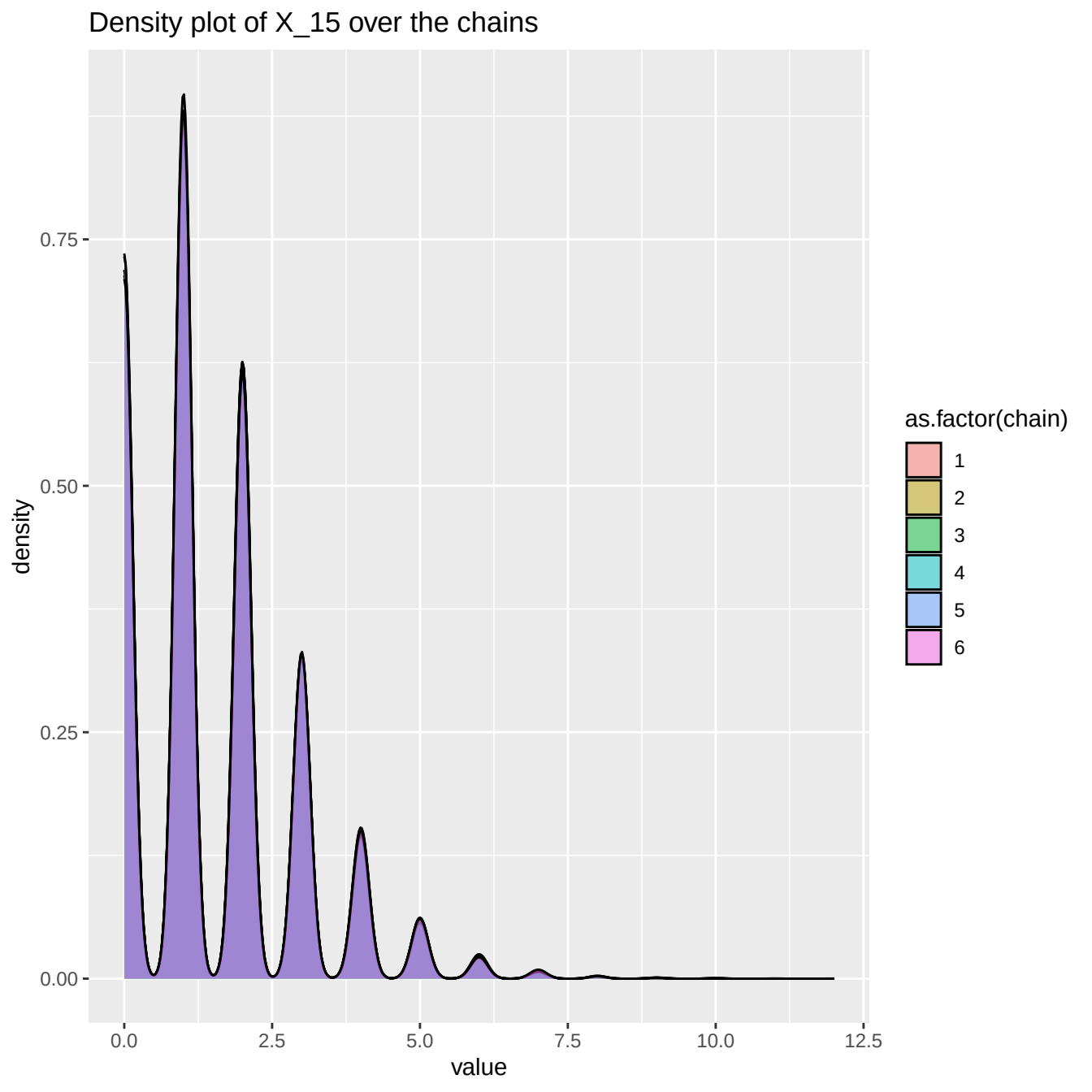

Density plot of X_10 over the chains
1.5
1.0
0.5
0.0
density
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

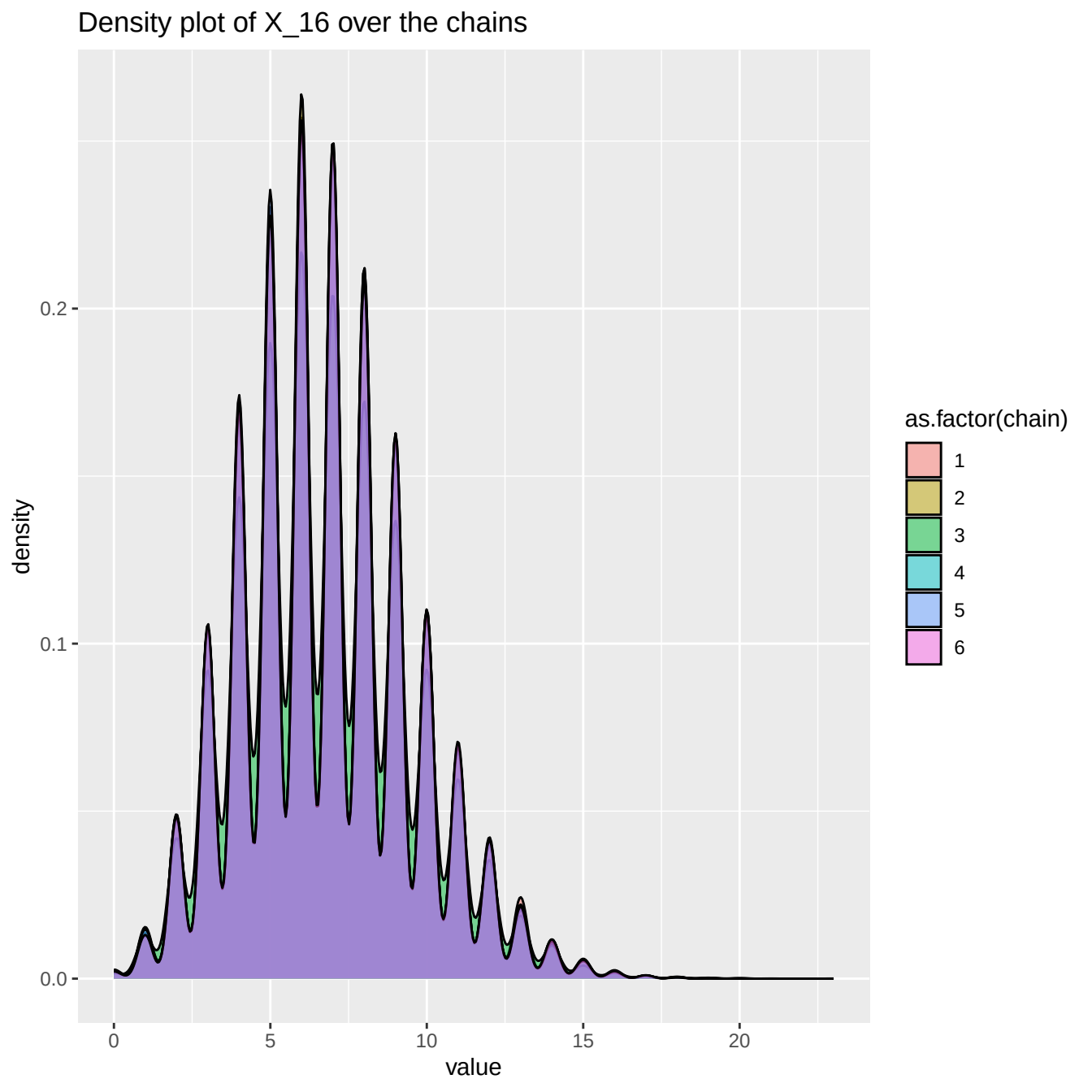

Density plot of X_11 over the chains
density
0.75
0.50
0.25
0.00
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

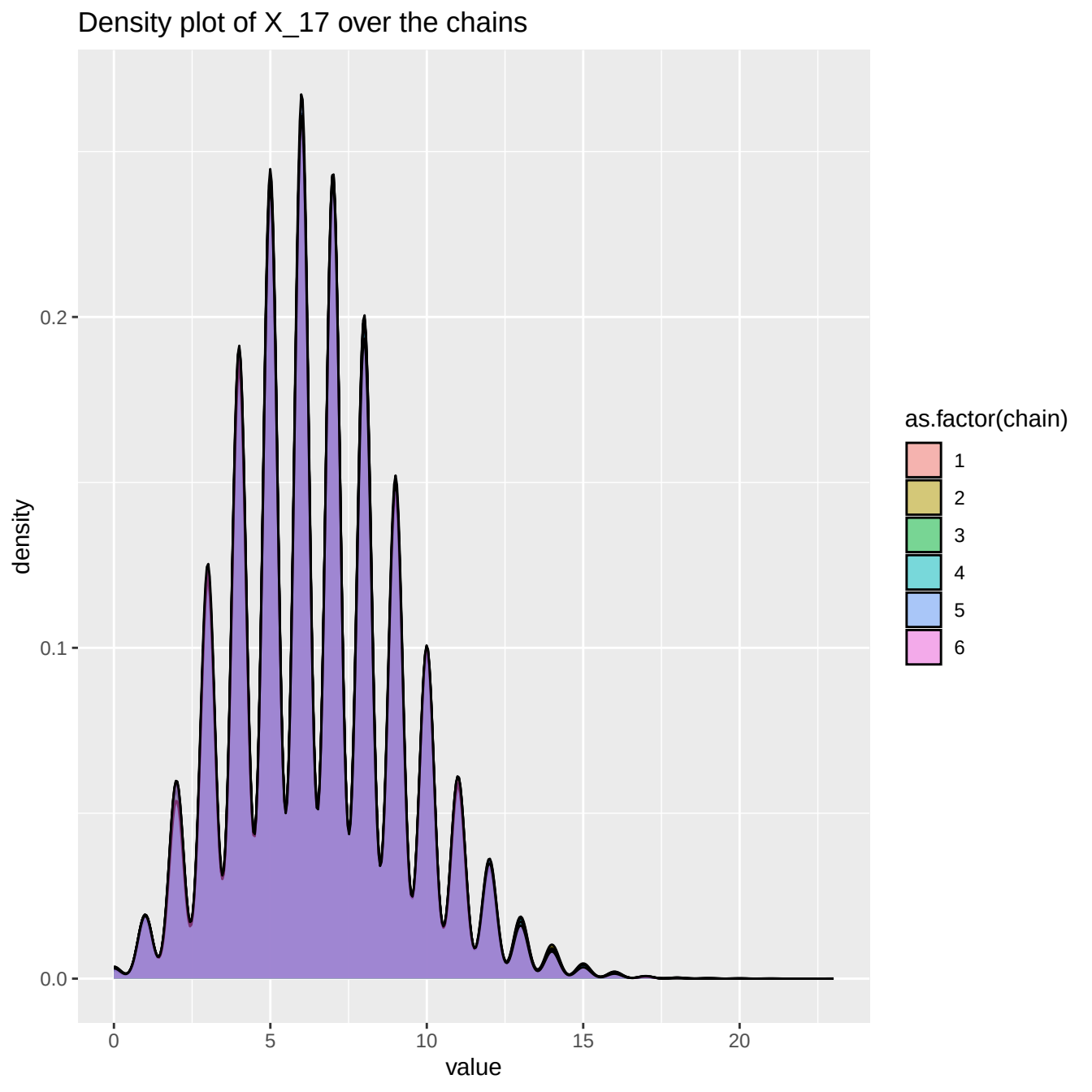

Density plot of X_12 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

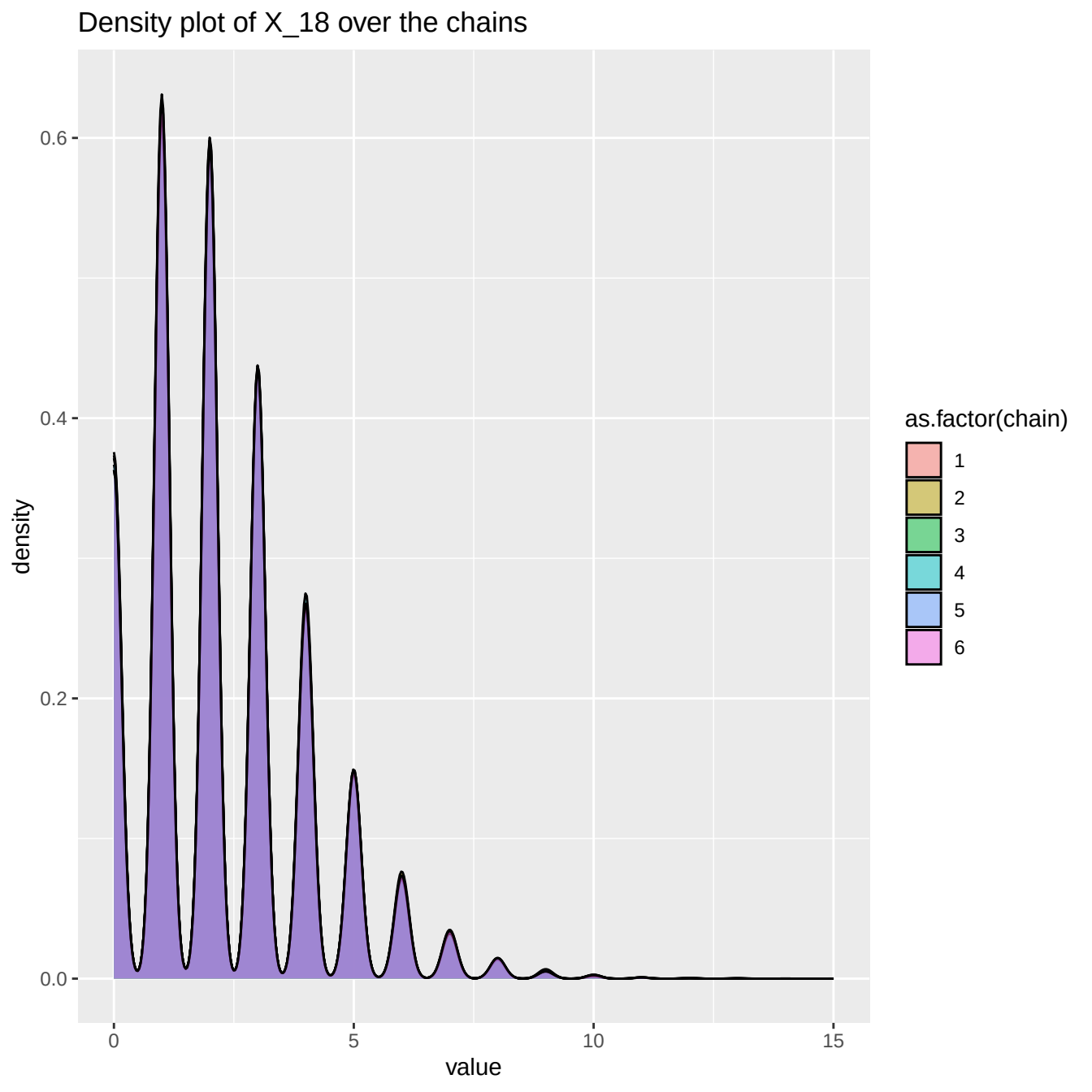

Density plot of X_13 over the chains
density
value
0.0
0.2
0.4
0.6
0
5
10
15
as.factor(chain)
1
2
3
4
5
6

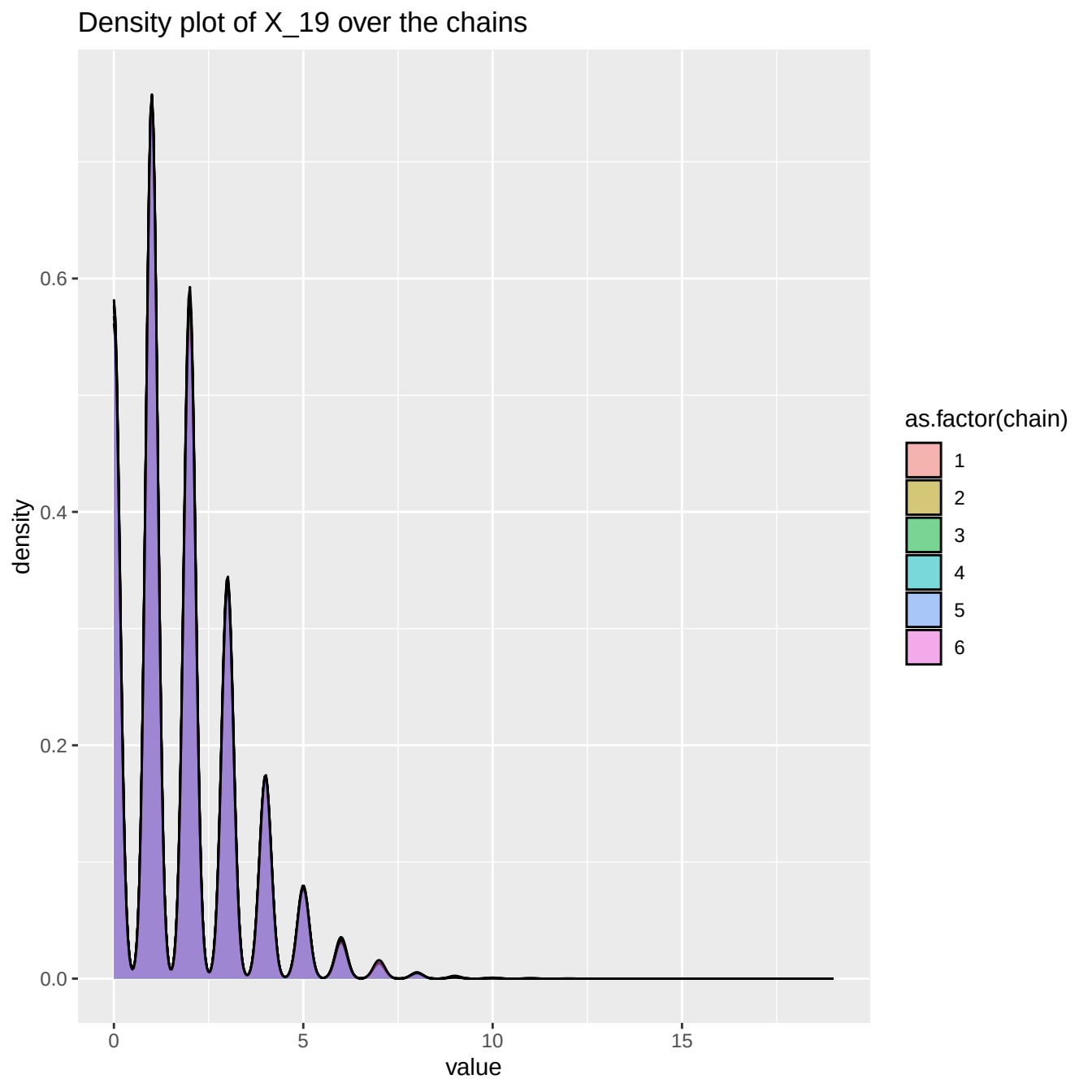

Density plot of X_14 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

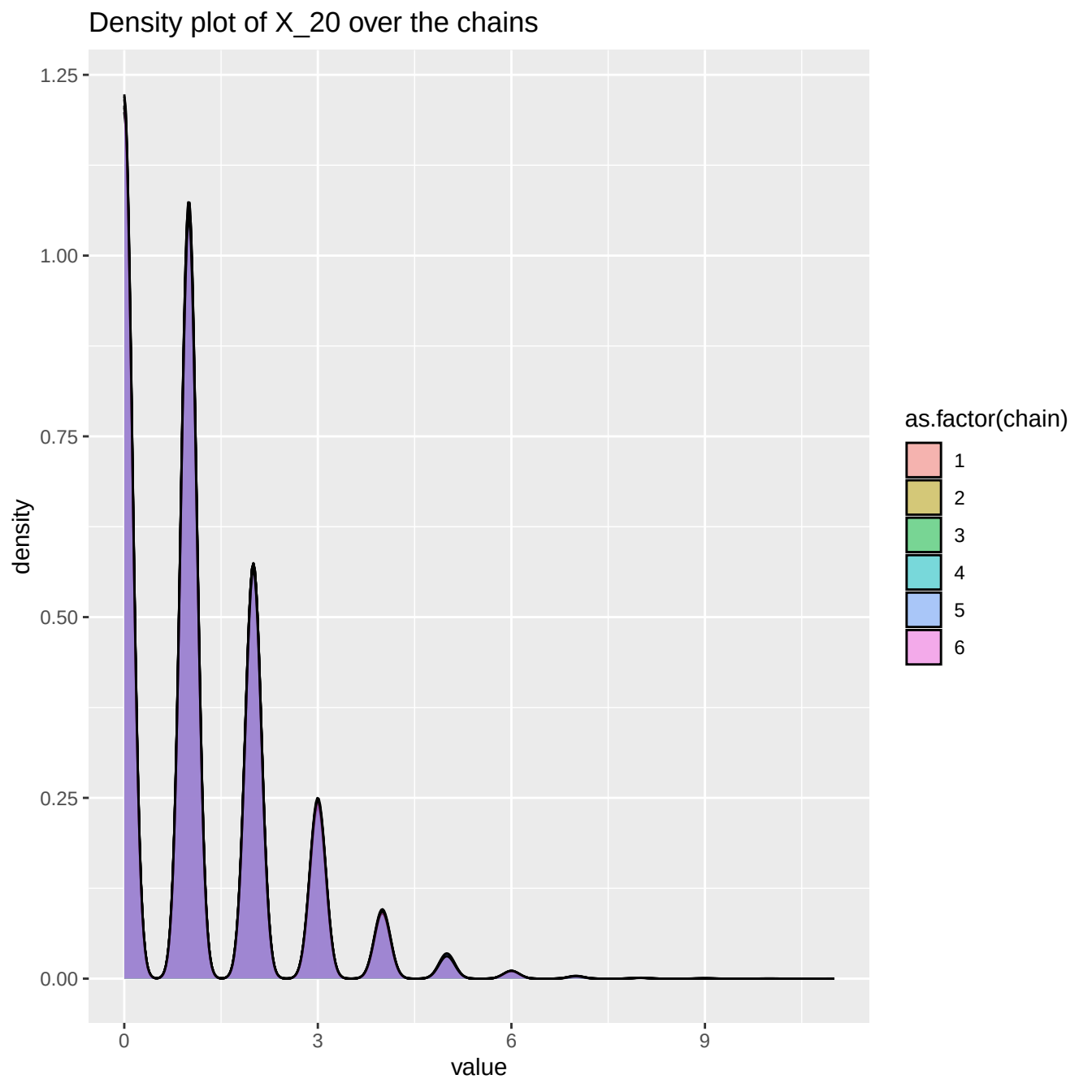

Density plot of X_15 over the chains
density
0.75
0.50
0.25
0.00
0.0
2.5
5.0
7.5
10.0
12.5
value
as.factor(chain)
1
2
3
4
5
6

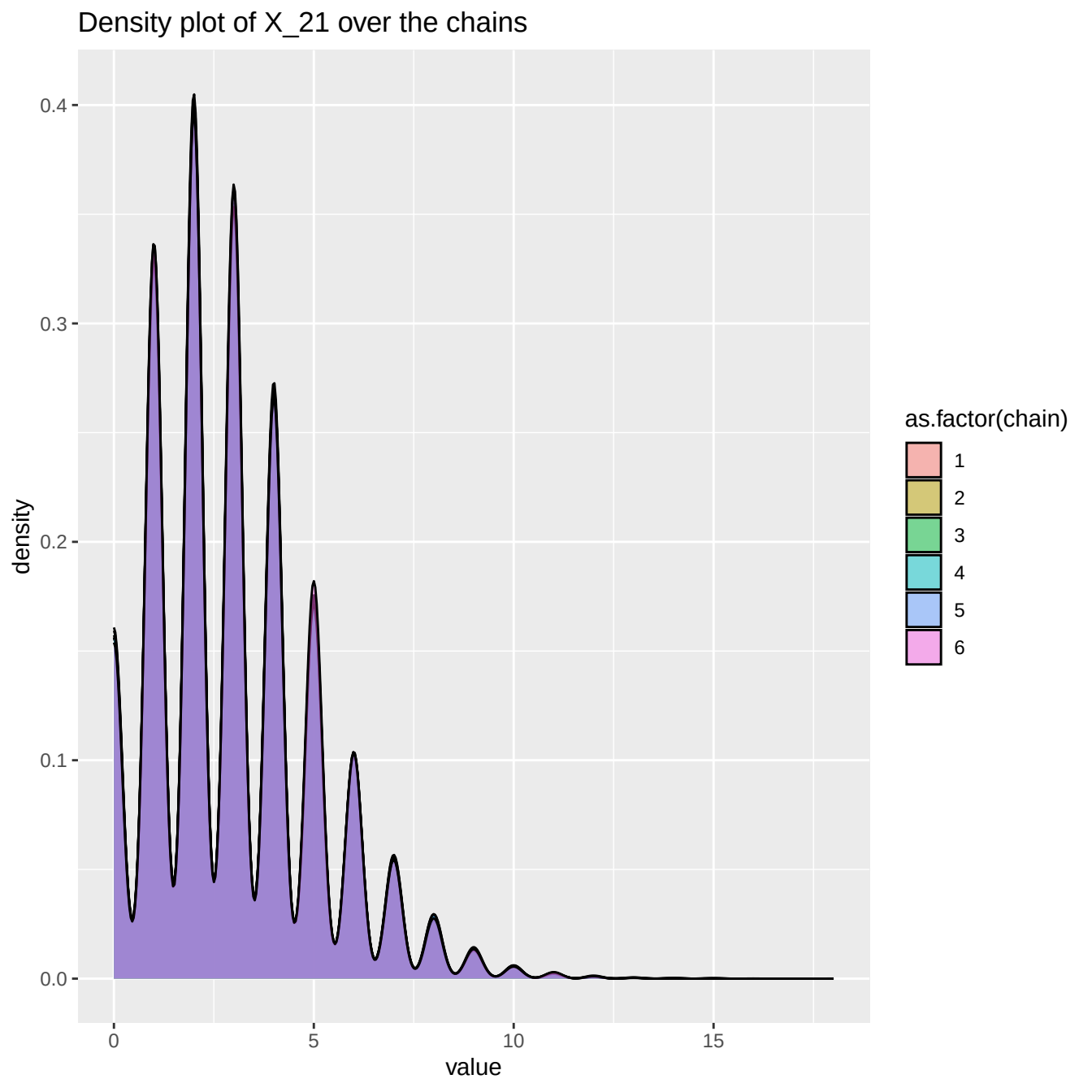

Density plot of X_16 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

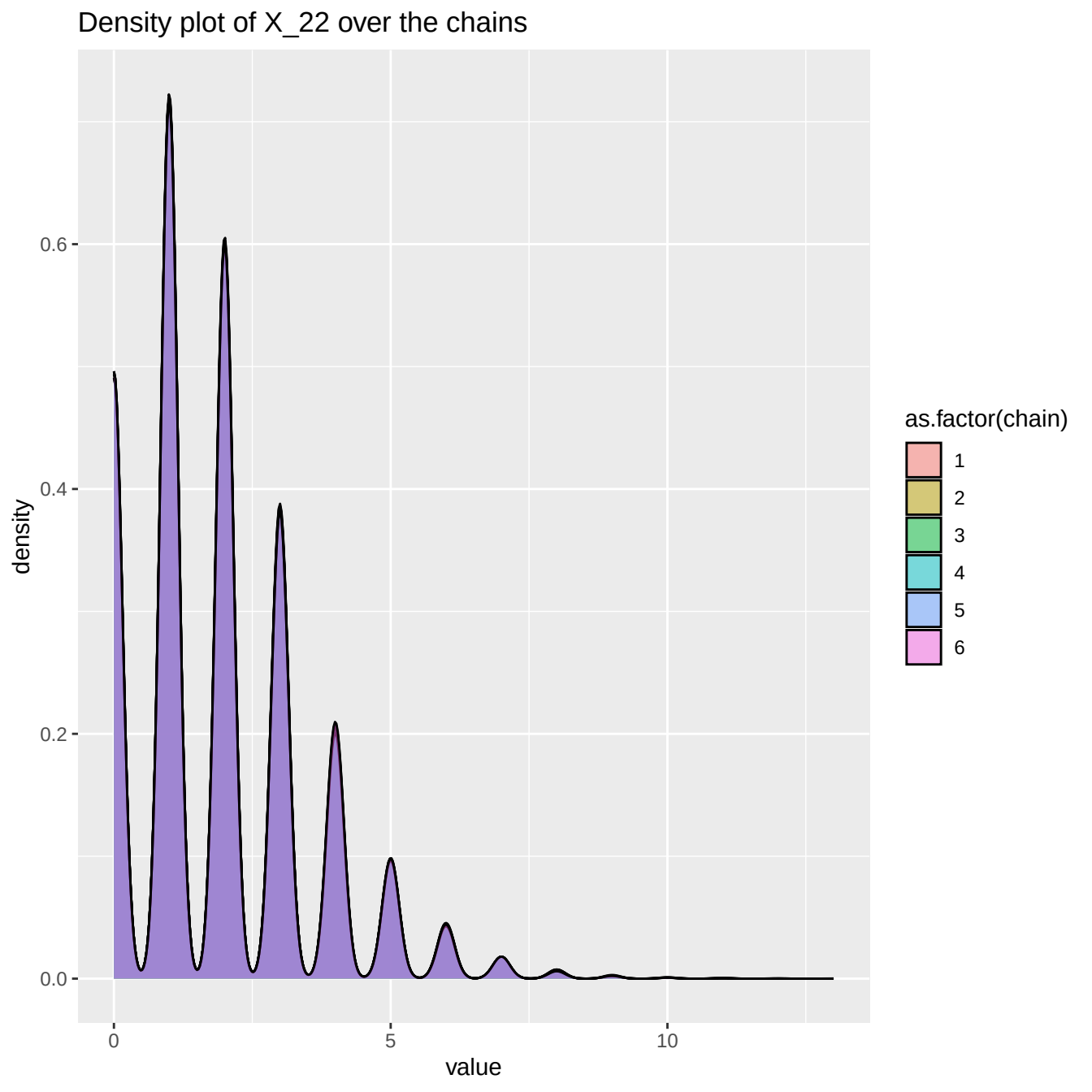

Density plot of X_17 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

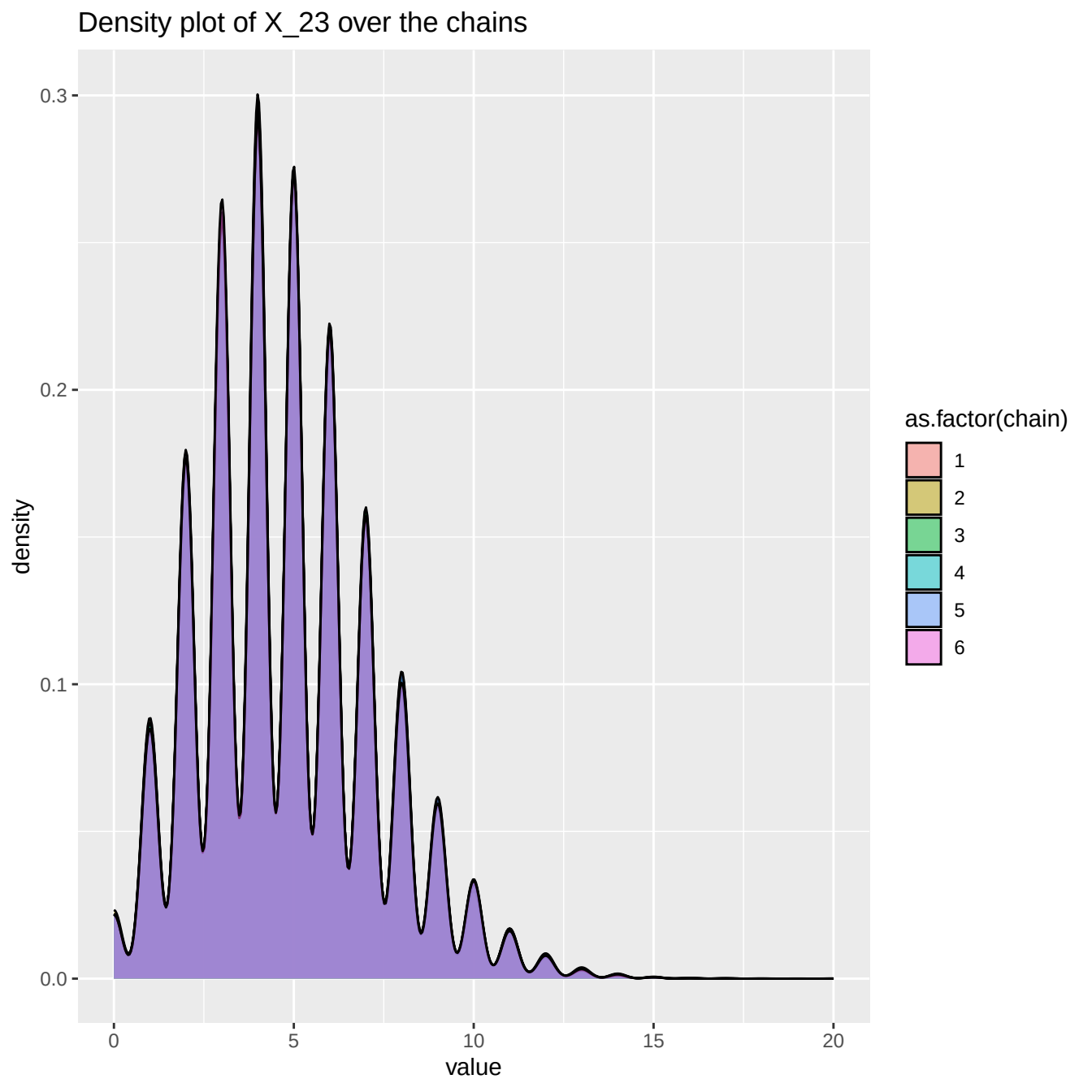

Density plot of X_18 over the chains
0.6
0.4
0.2
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

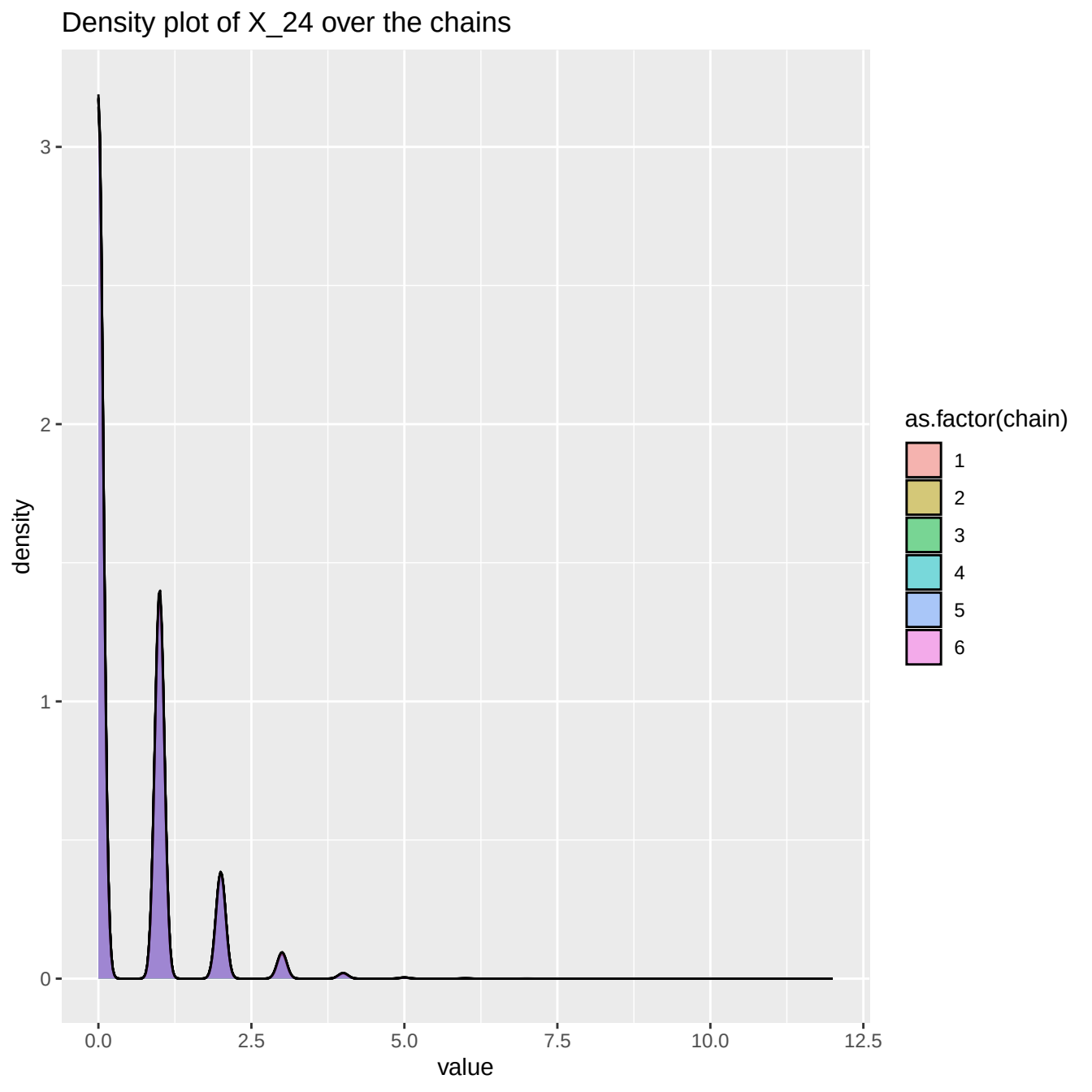

Density plot of X_19 over the chains
density
0.0
0.2
0.4
0.6
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

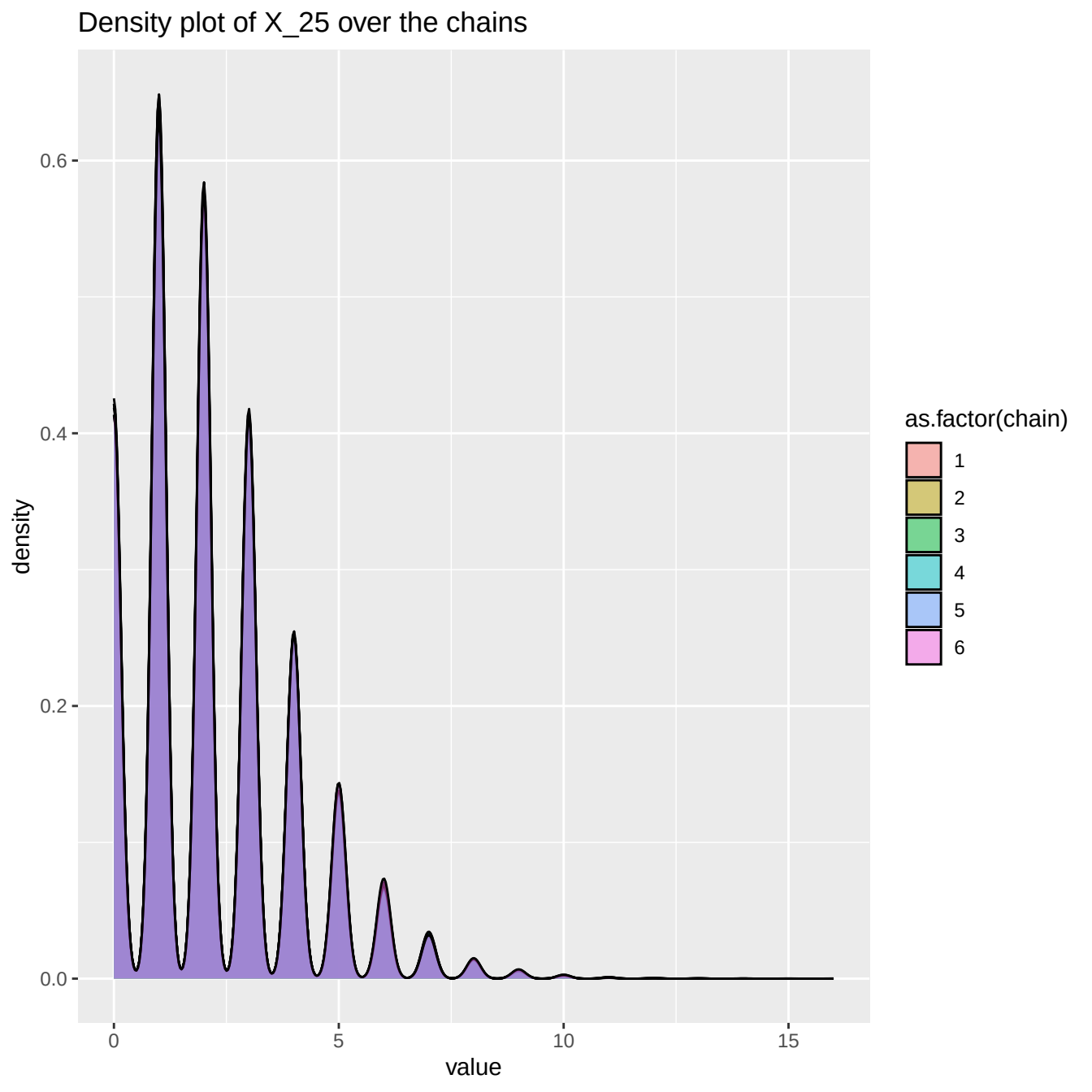

Density plot of X_20 over the chains
1.25
1.00
0.75
0.50
0.25
0.00
density
0
3
6
9
value
as.factor(chain)
1
2
3
4
5
6

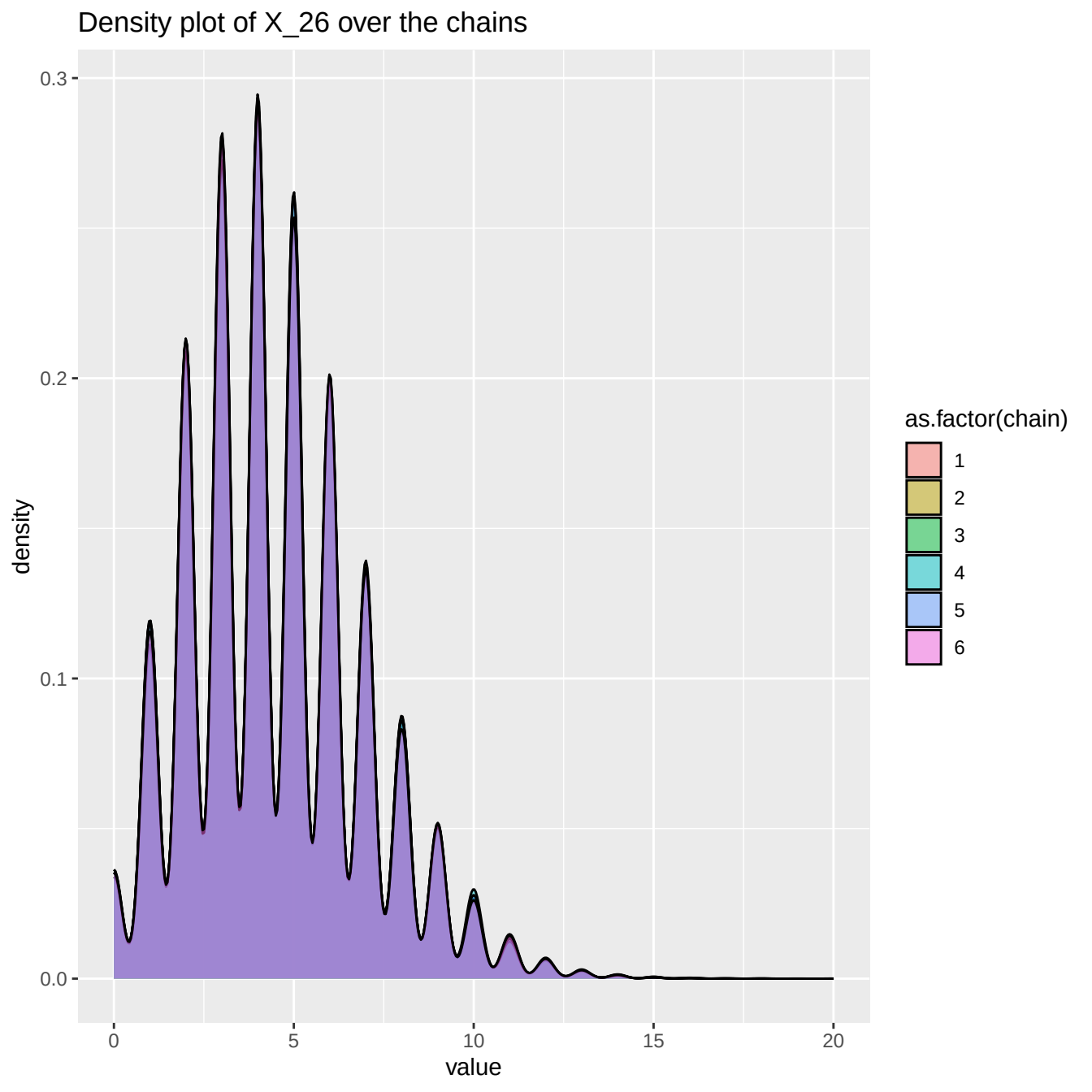

Density plot of X_21 over the chains
density
0.4
0.3
0.2
0.1
0.0
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

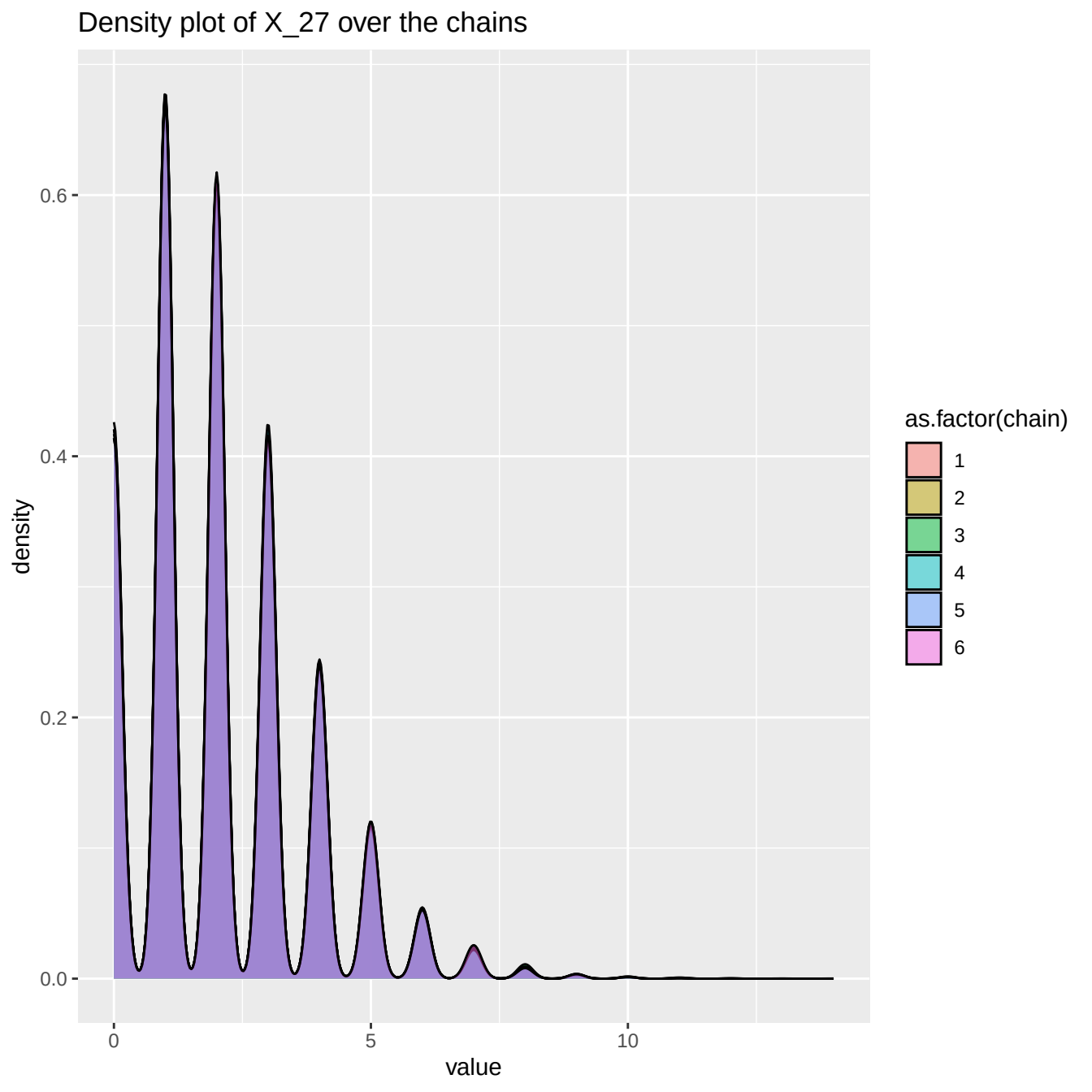

Density plot of X_22 over the chains
density
0.0
0.2
0.4
0.6
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

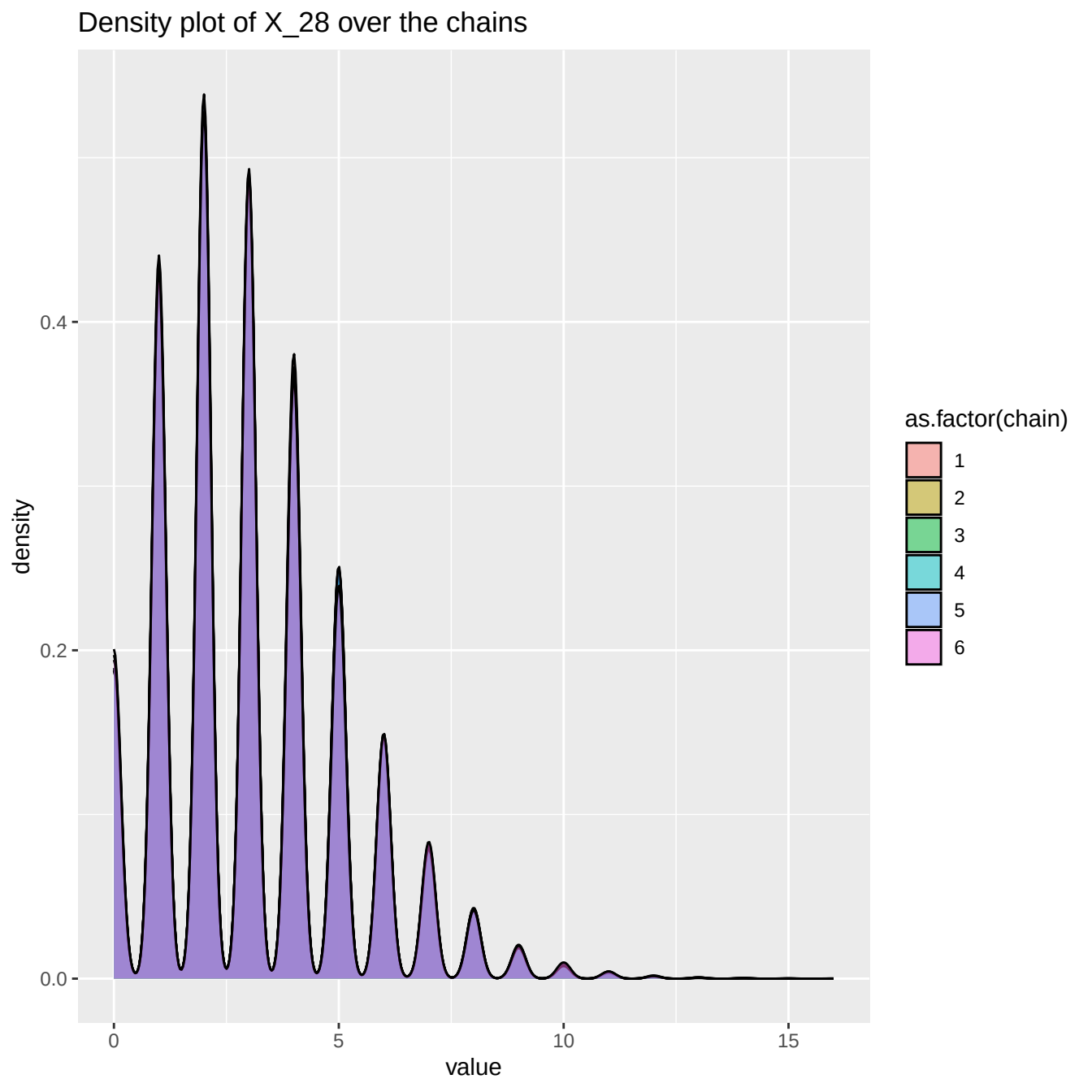

Density plot of X_23 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

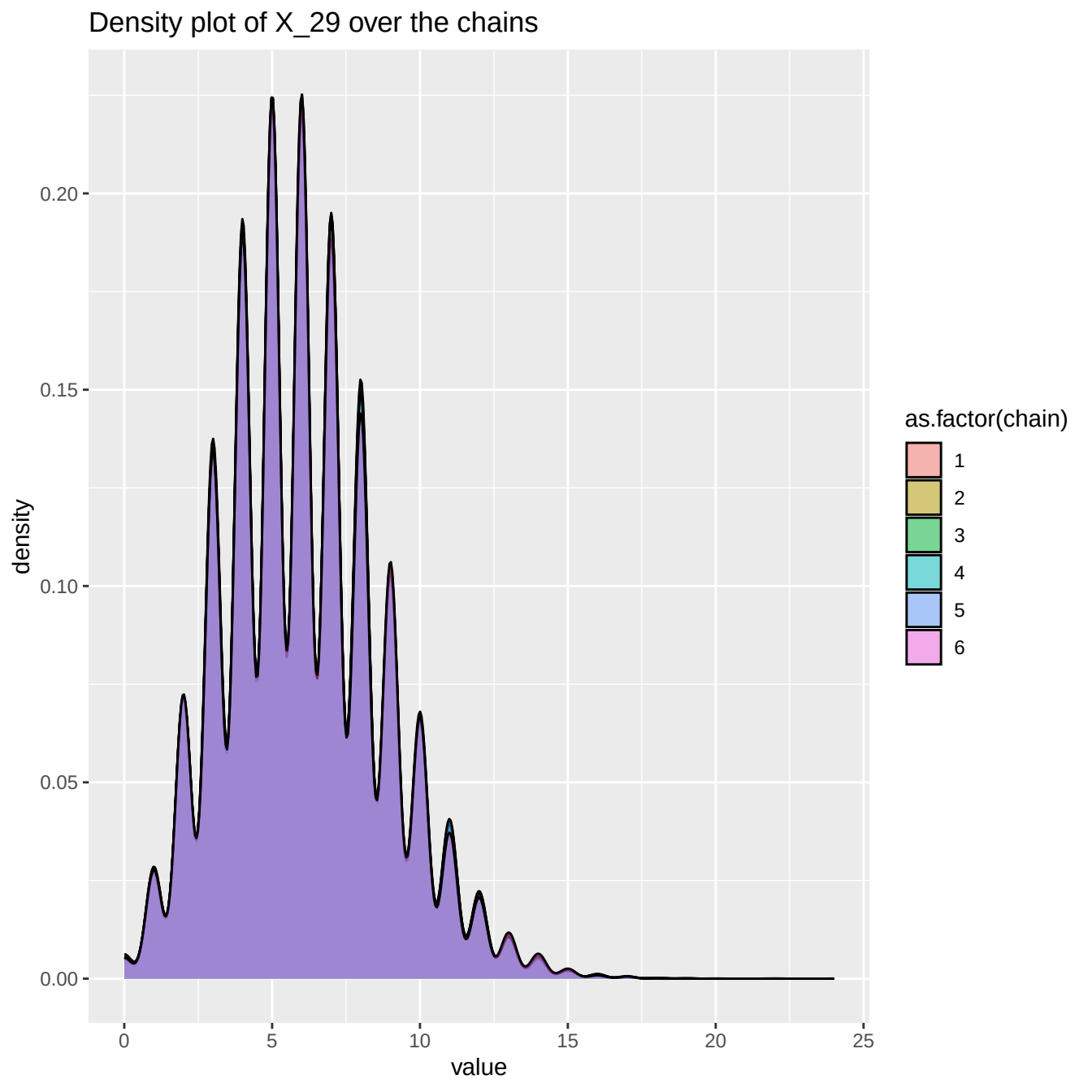

Density plot of X_24 over the chains
density
value
0
1
2
3
0.0
2.5
5.0
7.5
10.0
12.5
as.factor(chain)
1
2
3
4
5
6

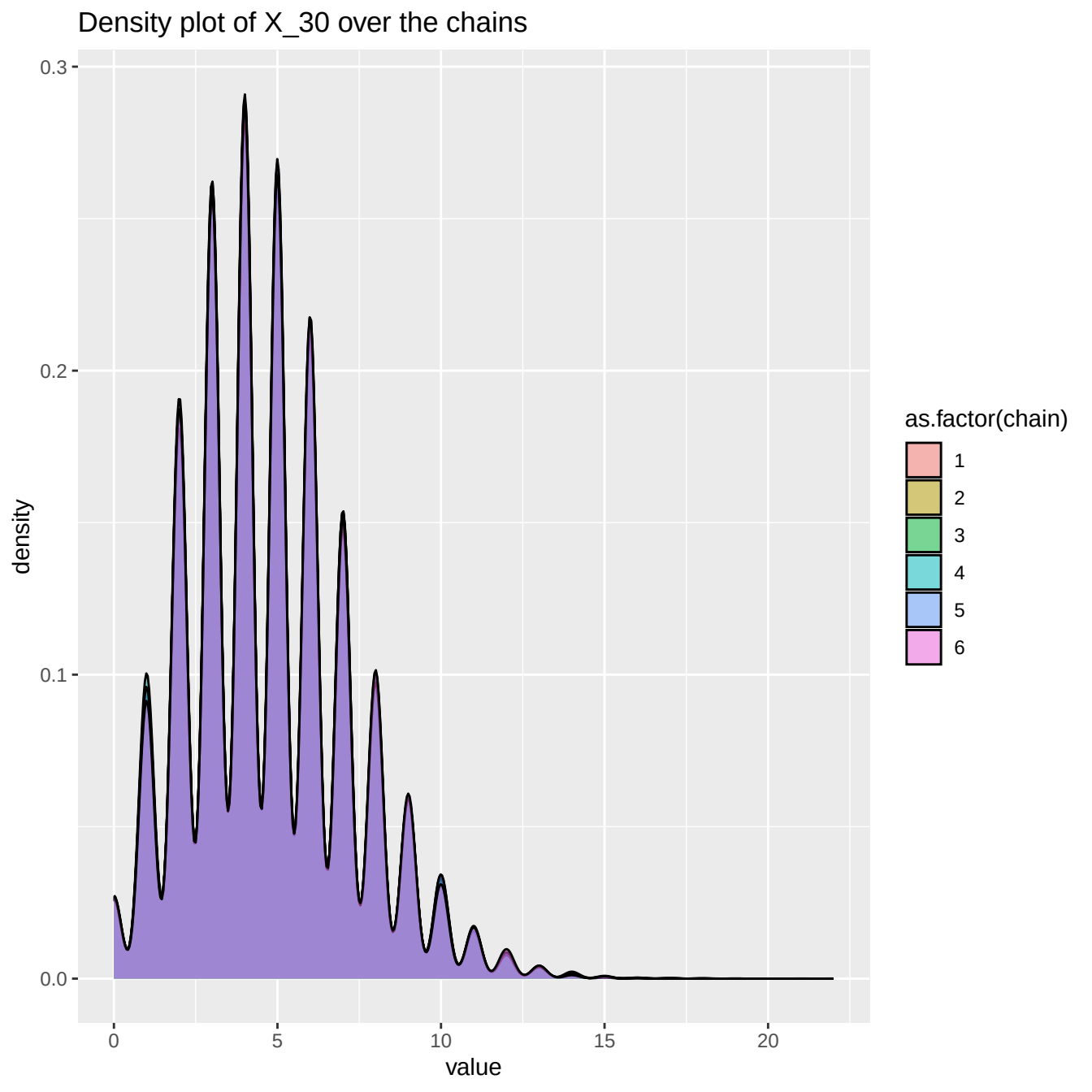

Density plot of X_25 over the chains
density
0.6
0.4
0.2
0.0
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

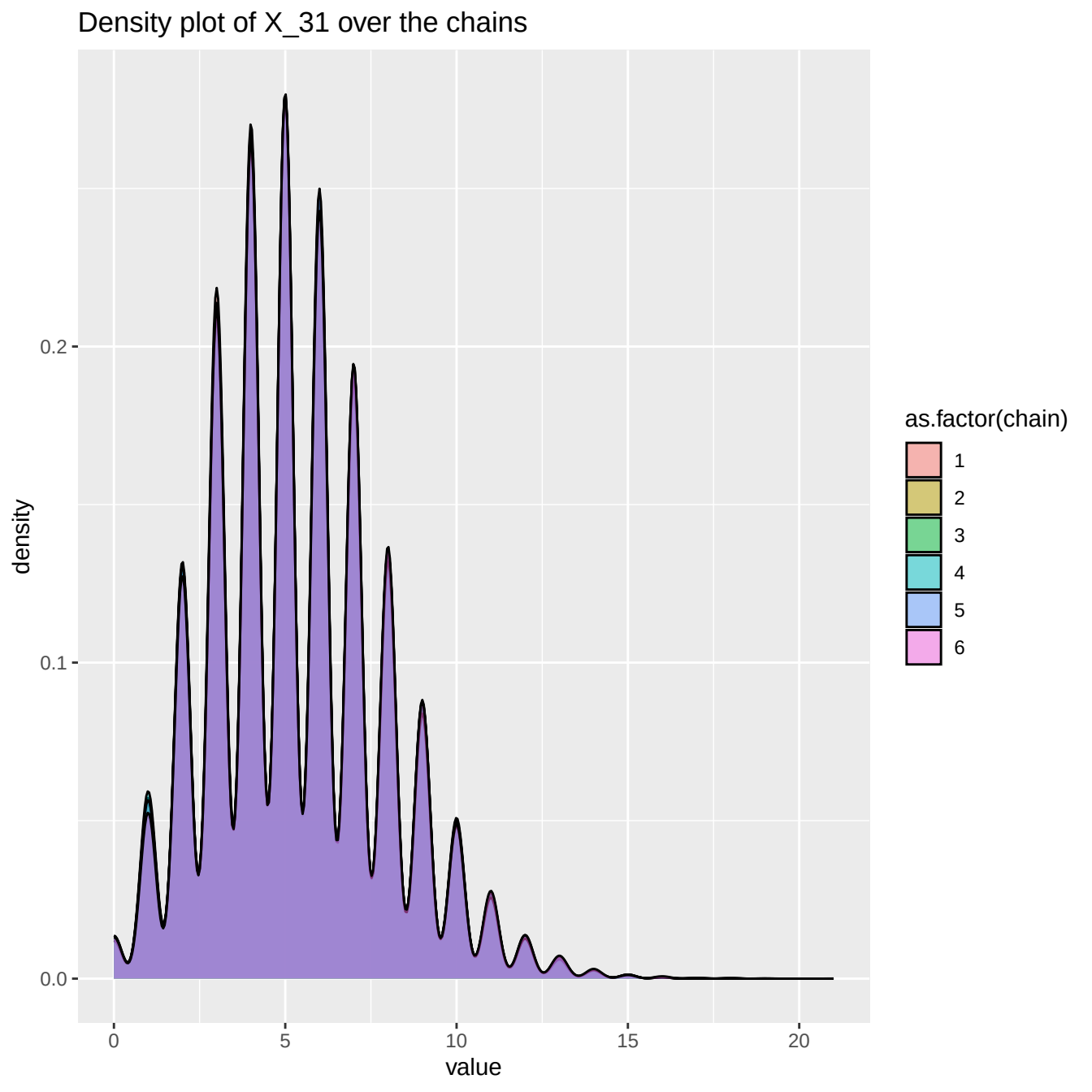

Density plot of X_26 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

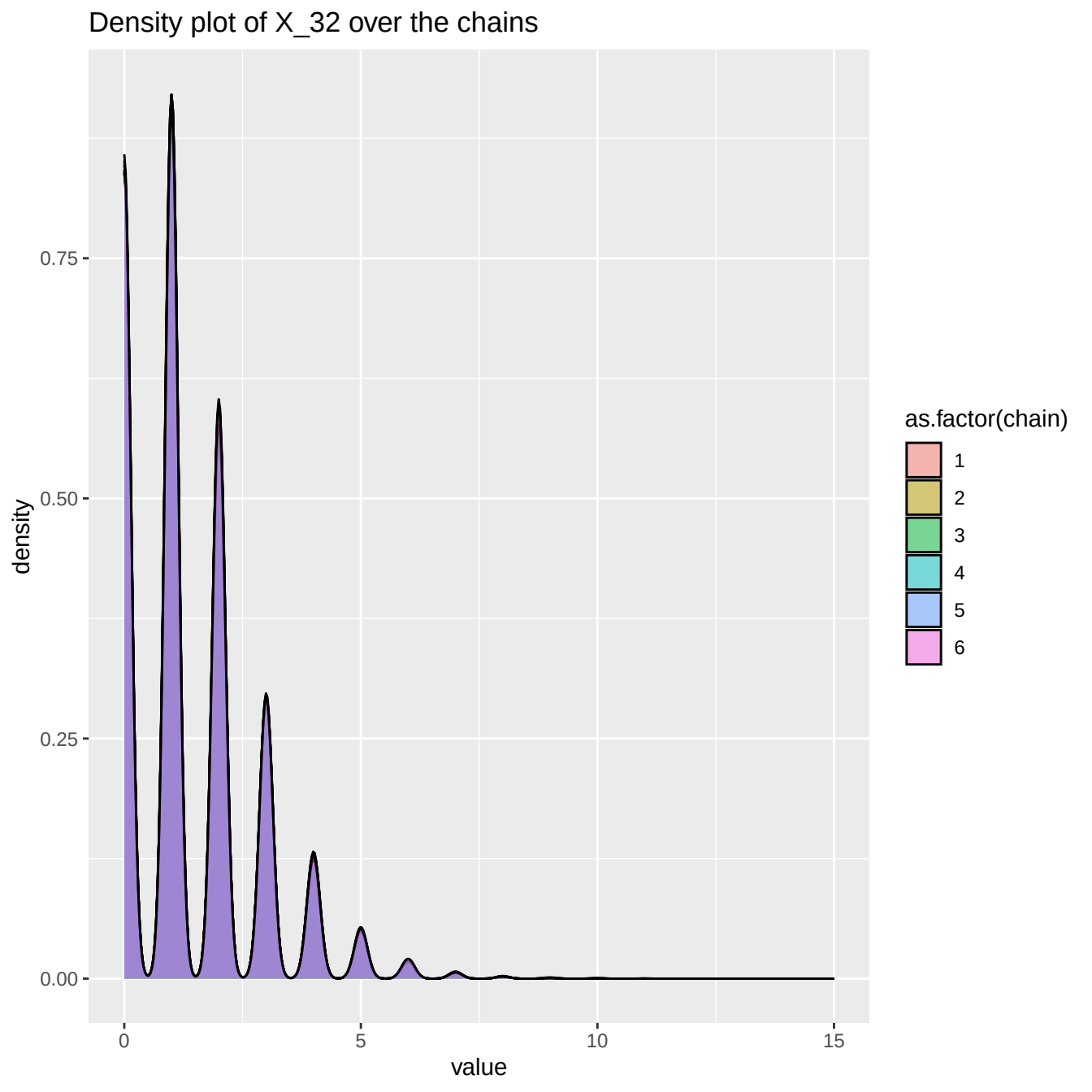

Density plot of X_27 over the chains
density
0.0
0.2
0.4
0.6
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

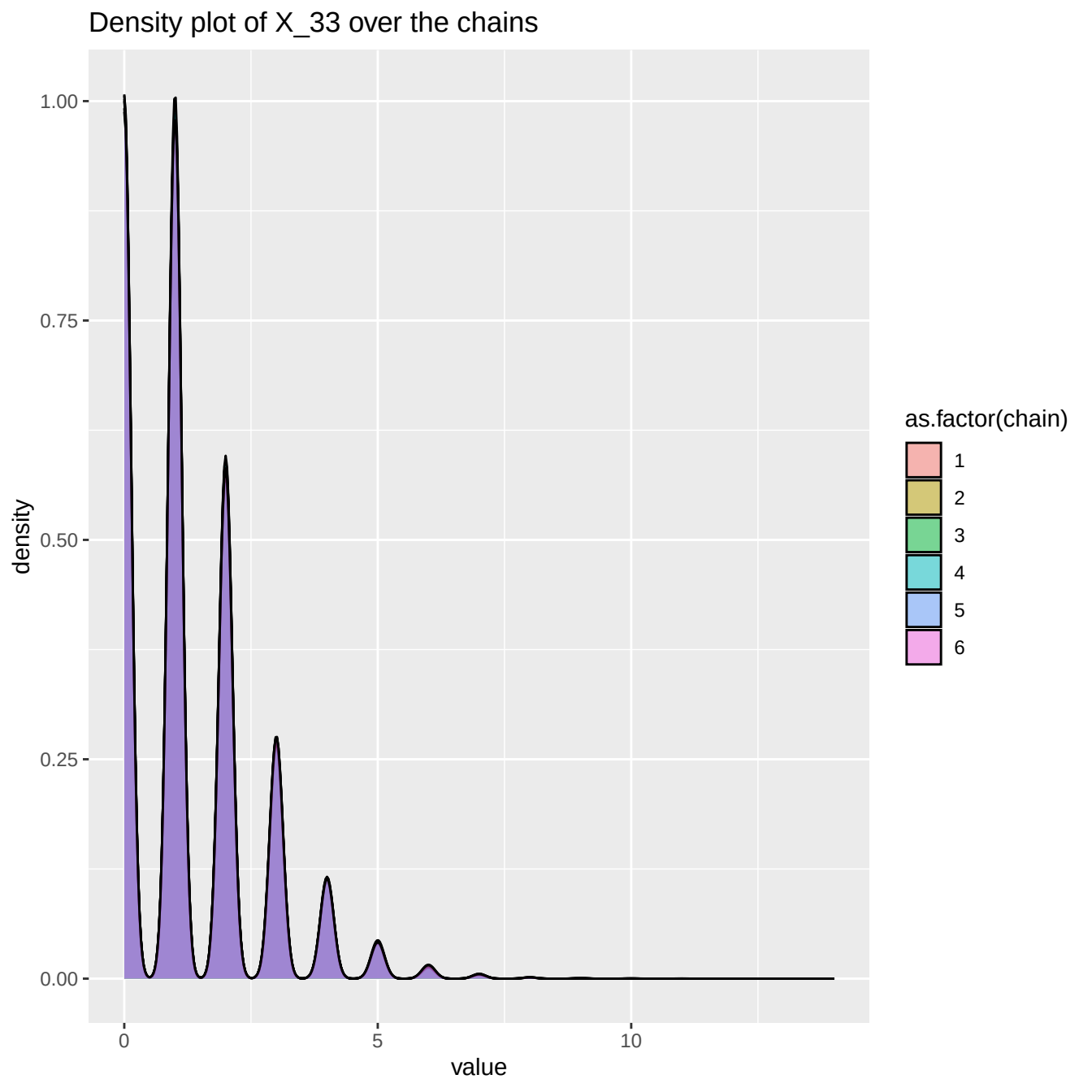

Density plot of X_28 over the chains
density
0.0
0.2
0.4
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

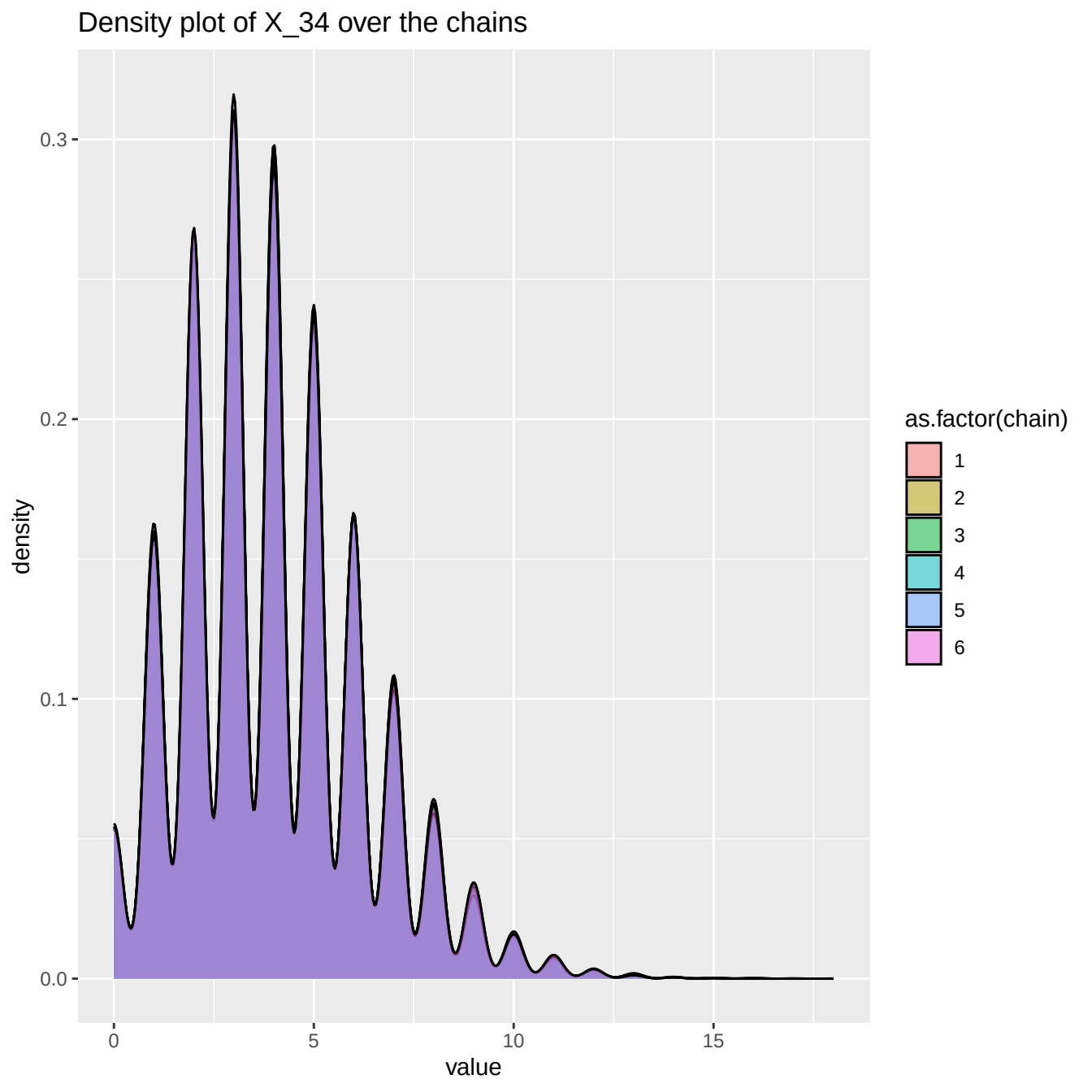

Density plot of X_29 over the chains
density
0.20
0.15
0.10
0.05
0.00
0
5
10
15
20
25
value
as.factor(chain)
1
2
3
4
5
6

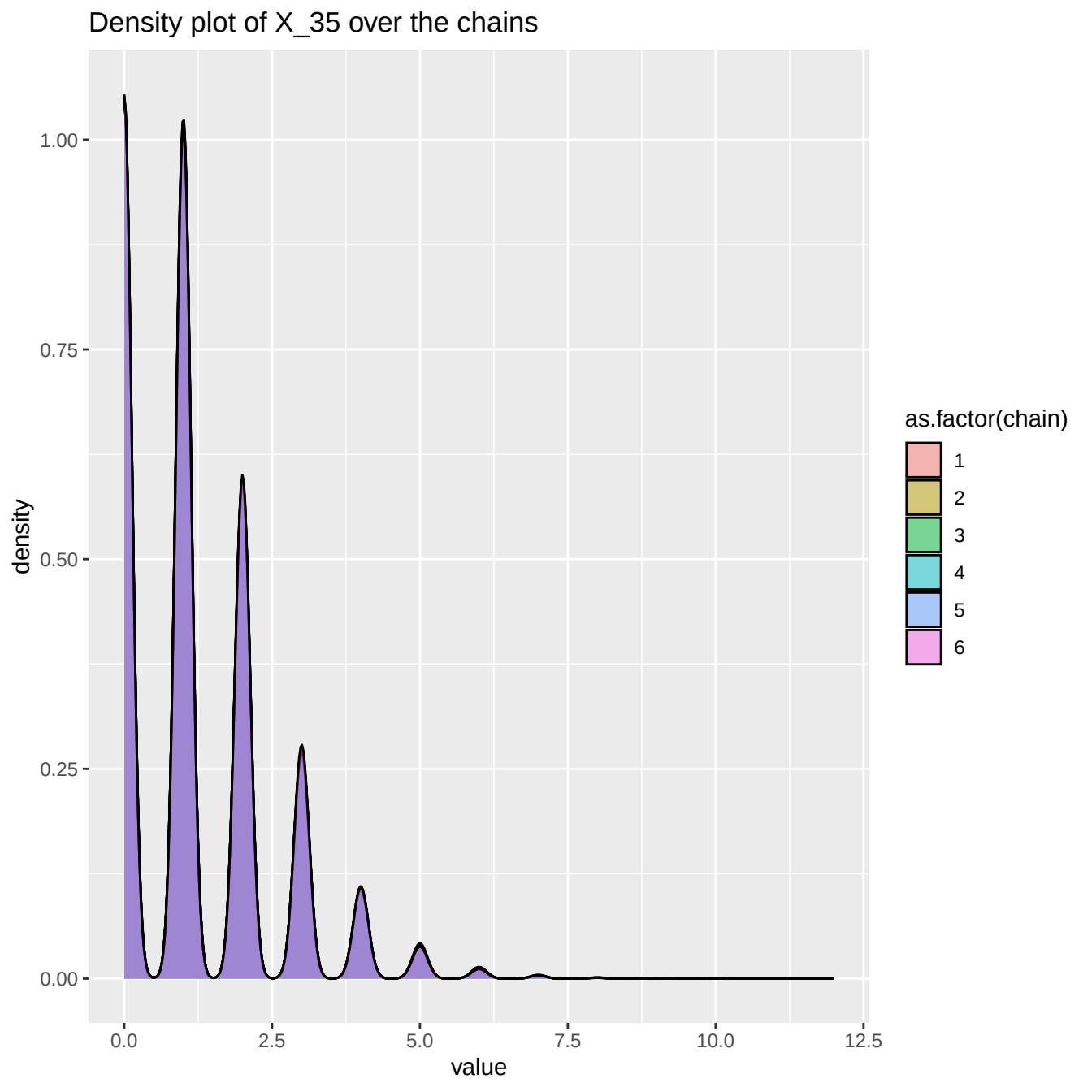

Density plot of X_30 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

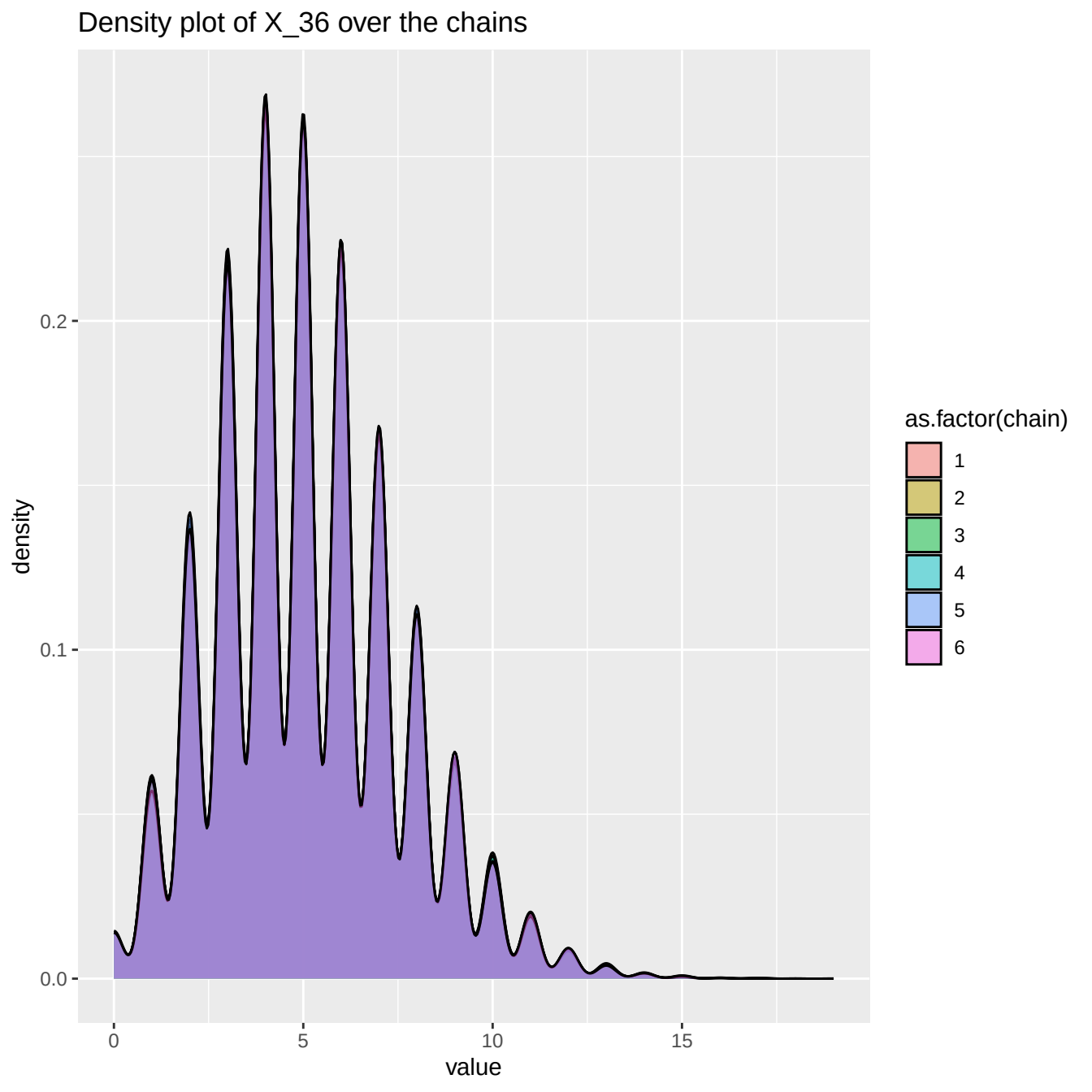

Density plot of X_31 over the chains
density
0.0
0.1
0.2
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

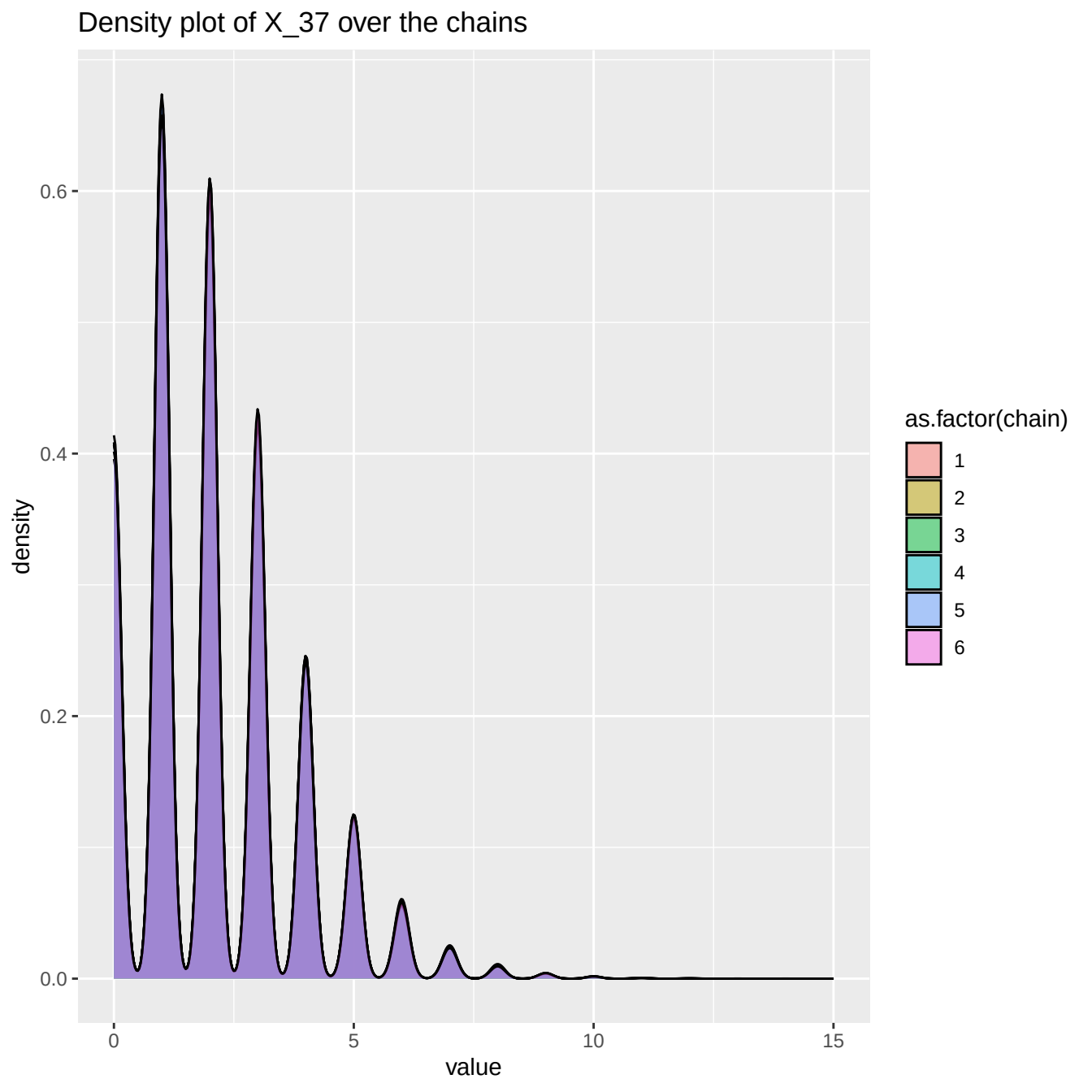

Density plot of X_32 over the chains
density
0.75
0.50
0.25
0.00
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

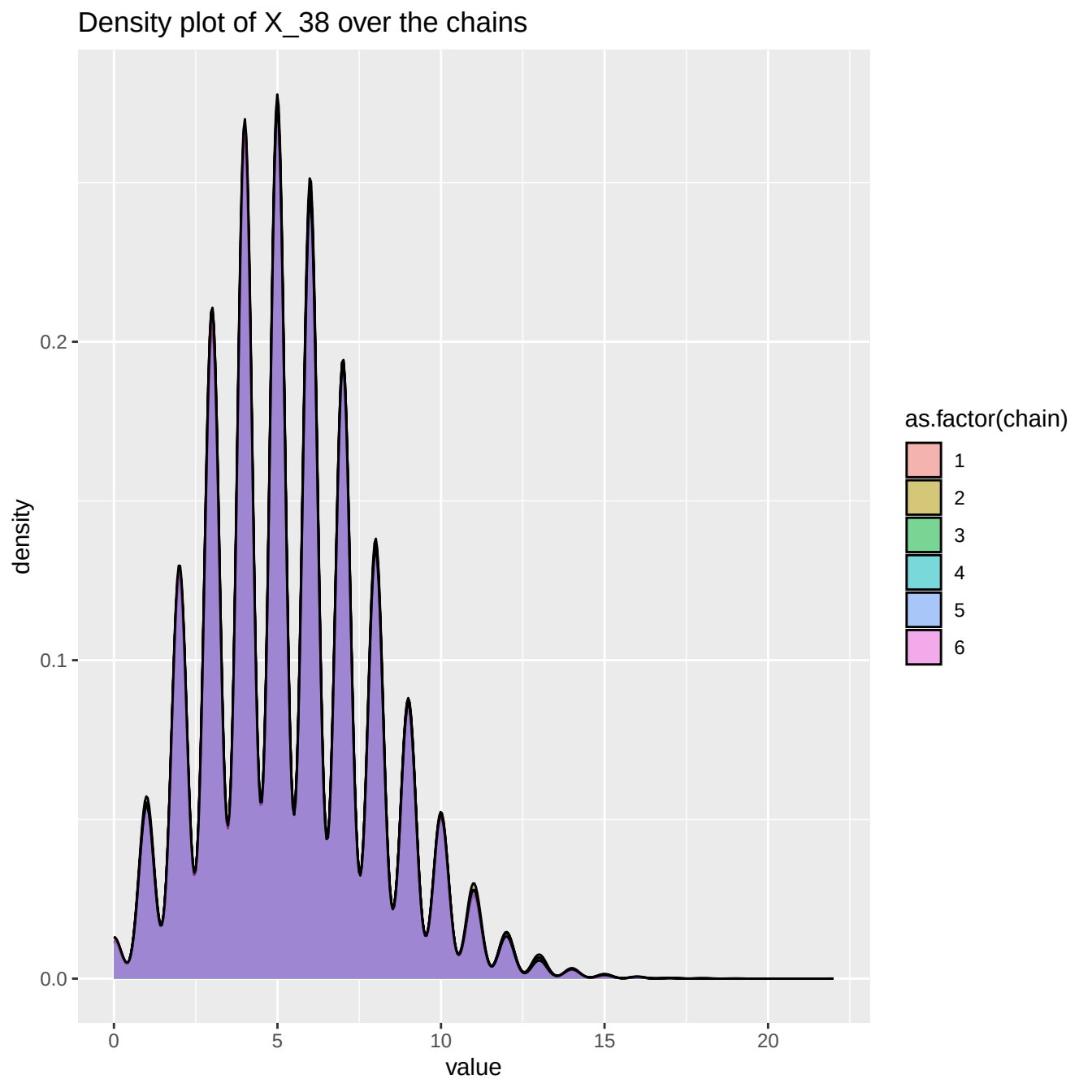

Density plot of X_33 over the chains
1.00
0.75
0.50
0.25
0.00
density
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

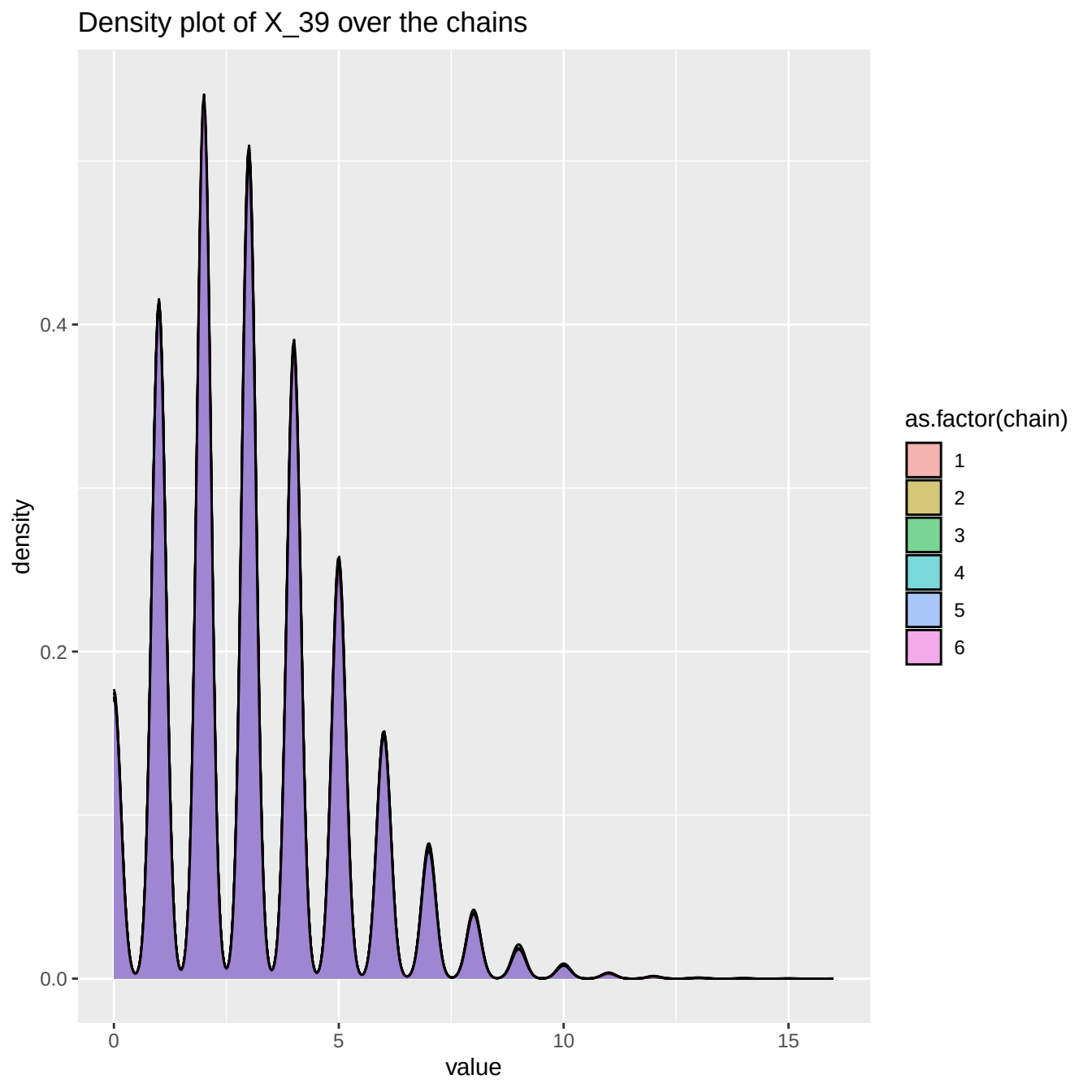

Density plot of X_34 over the chains
density
0.3
0.2
0.1
0.0
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

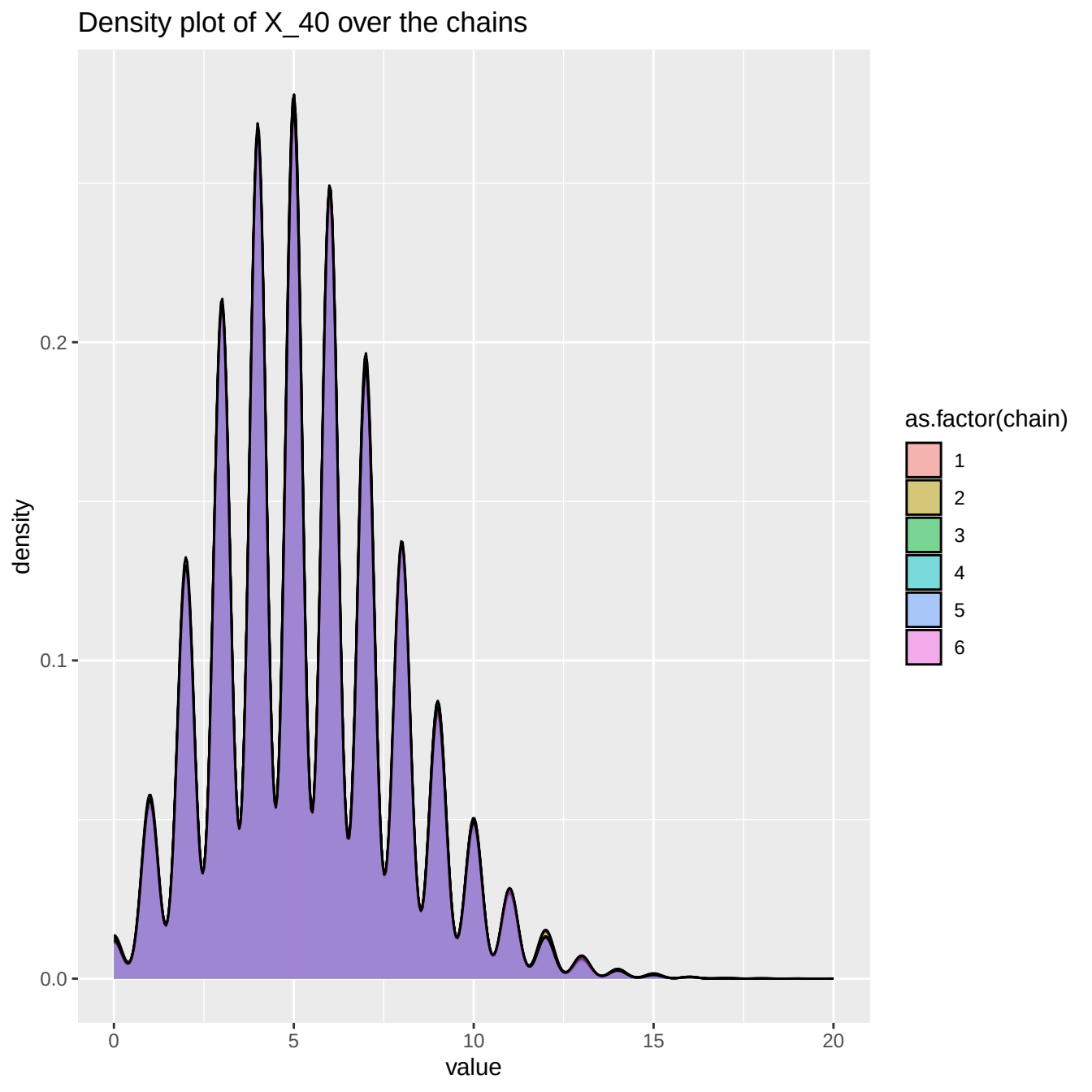

Density plot of X_35 over the chains
density
1.00
0.75
0.50
0.25
0.00
0.0
2.5
5.0
7.5
10.0
12.5
value
as.factor(chain)
1
2
3
4
5
6

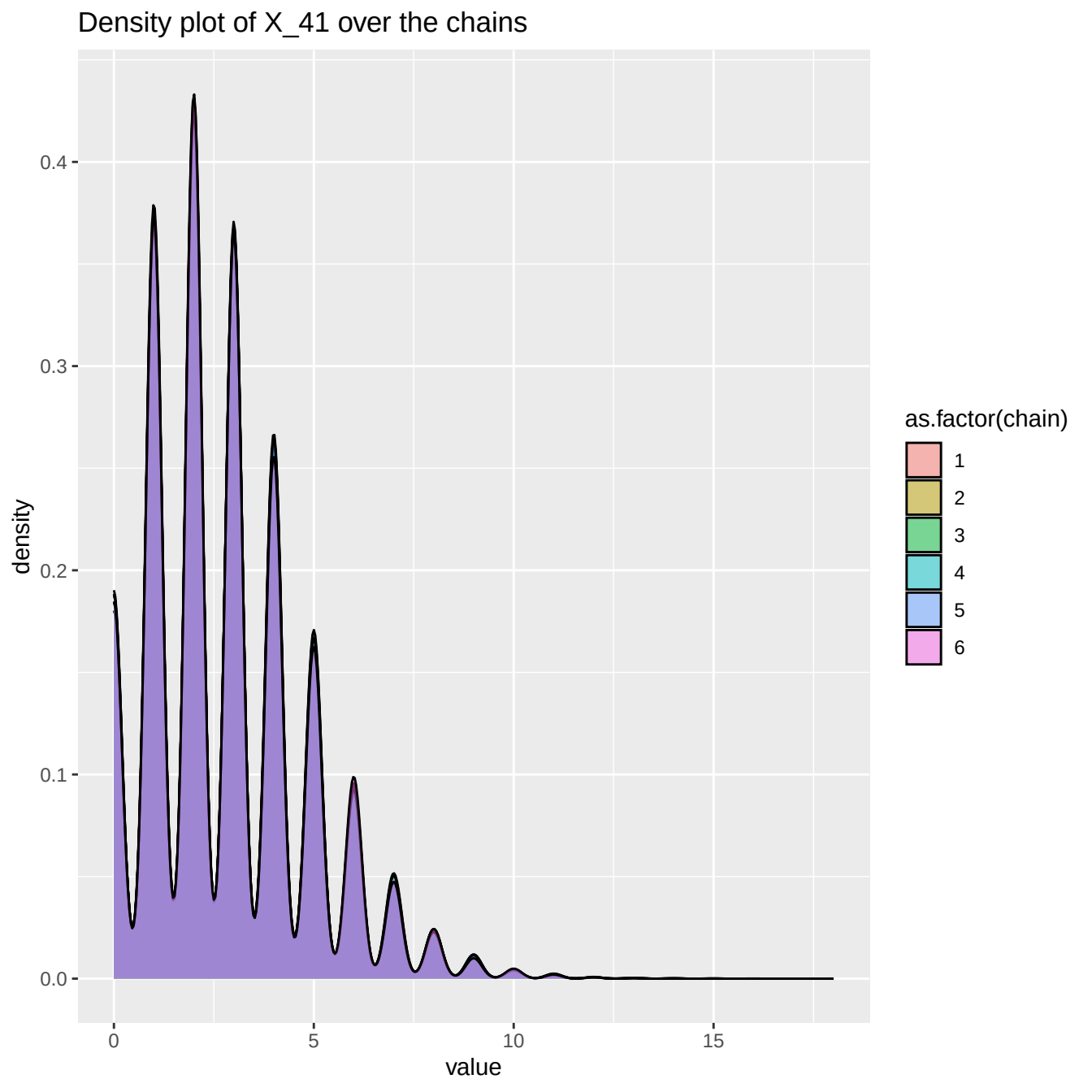

Density plot of X_36 over the chains
density
0.2
0.1
0.0
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

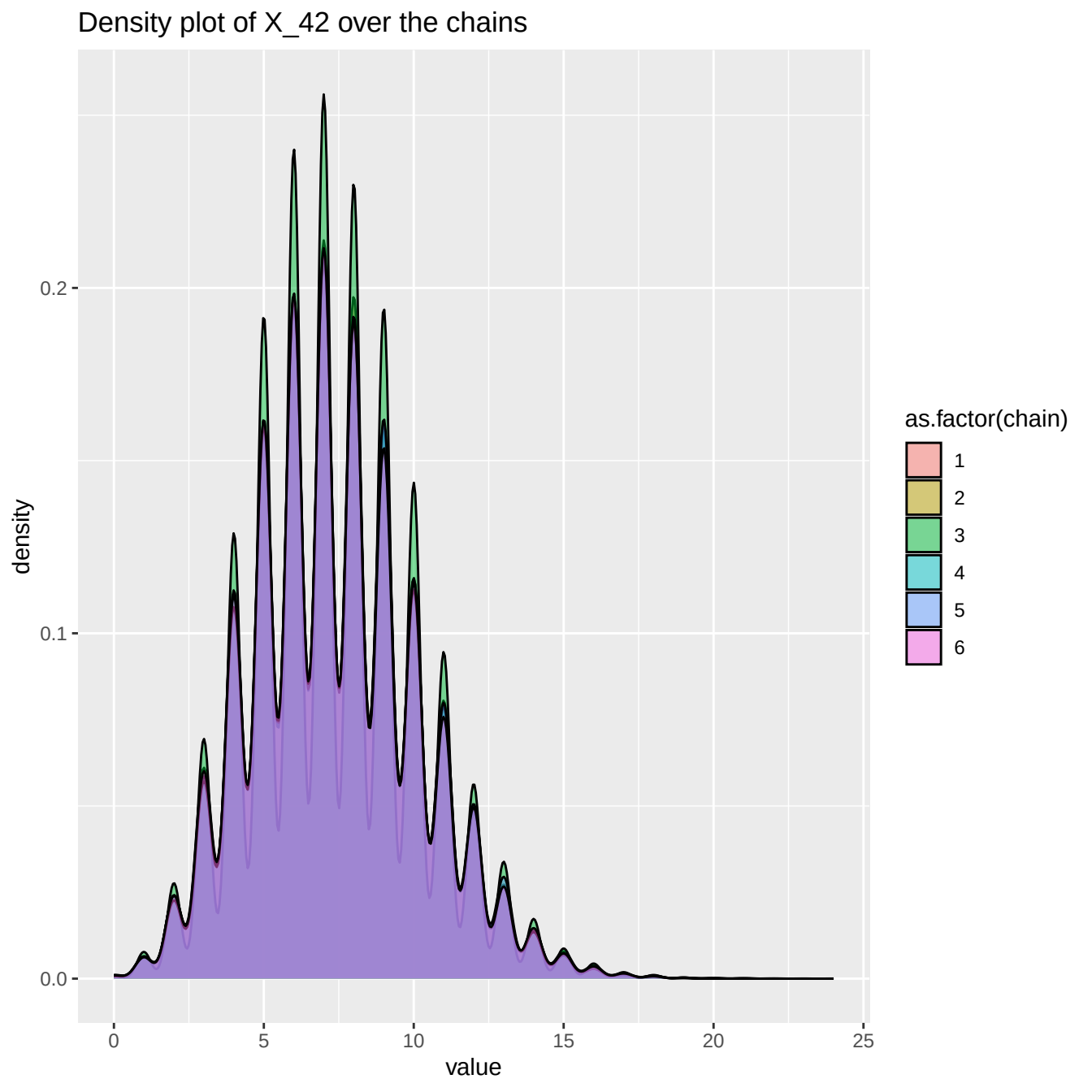

Density plot of X_37 over the chains
density
0.0
0.2
0.4
0.6
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

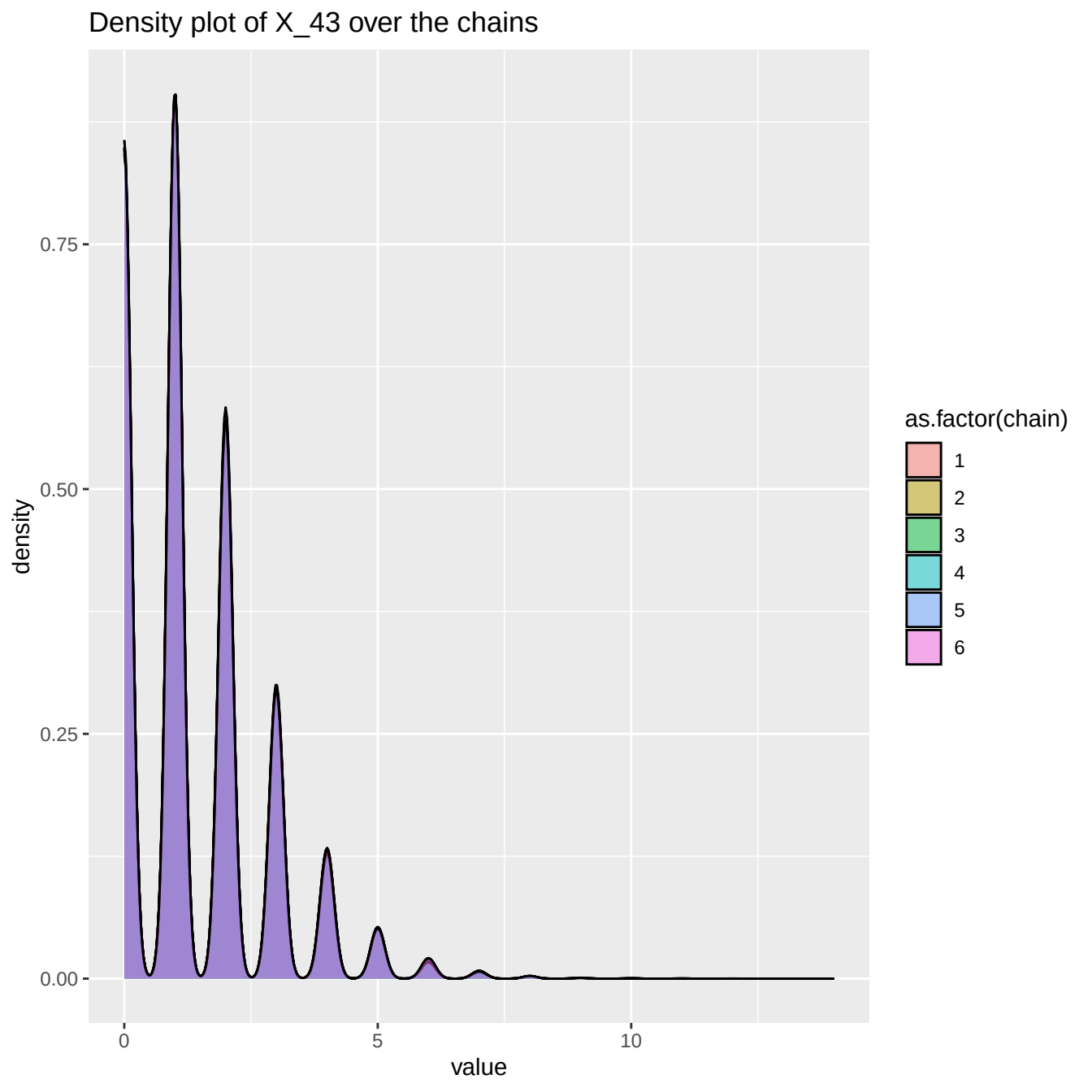

Density plot of X_38 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

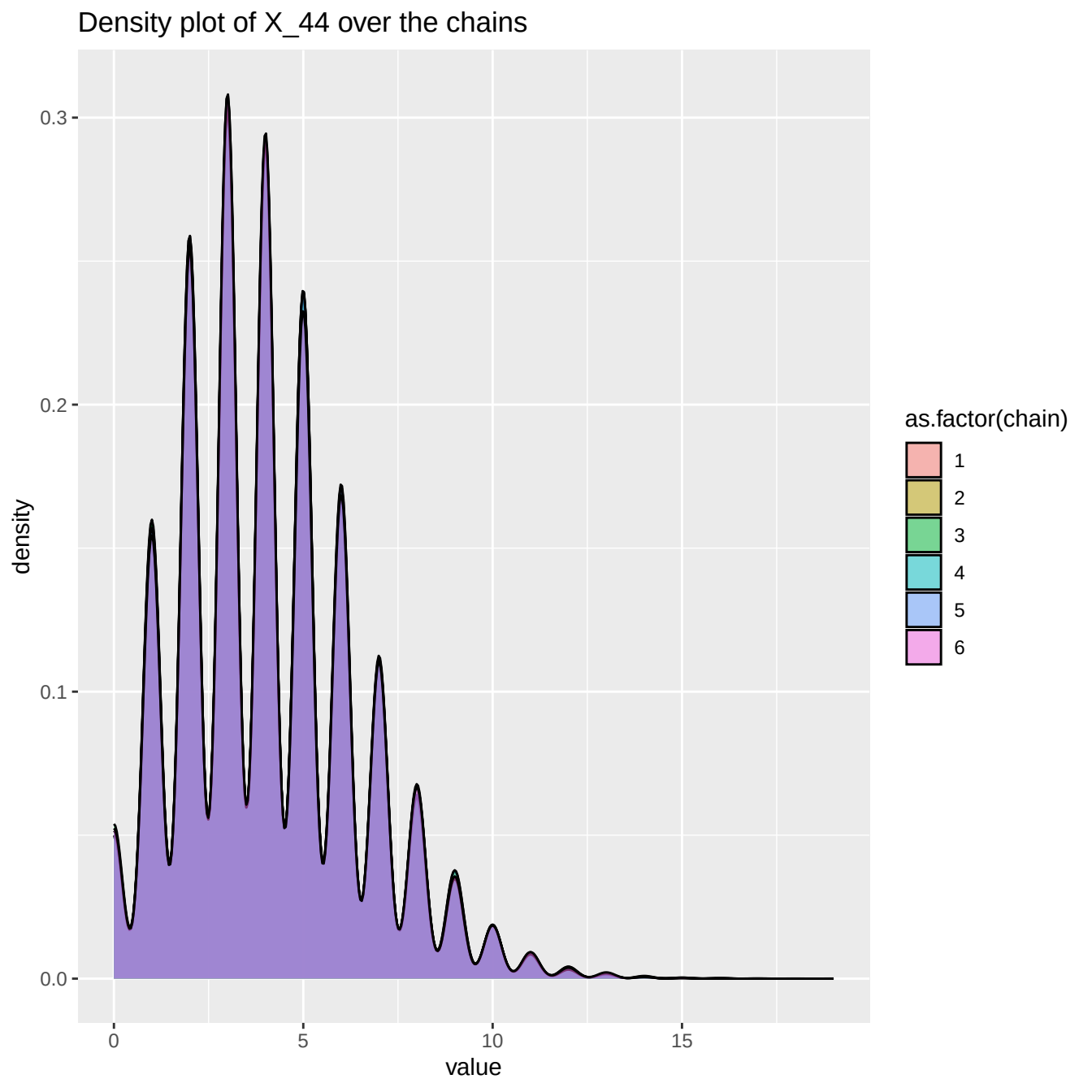

Density plot of X_39 over the chains
density
0.0
0.2
0.4
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

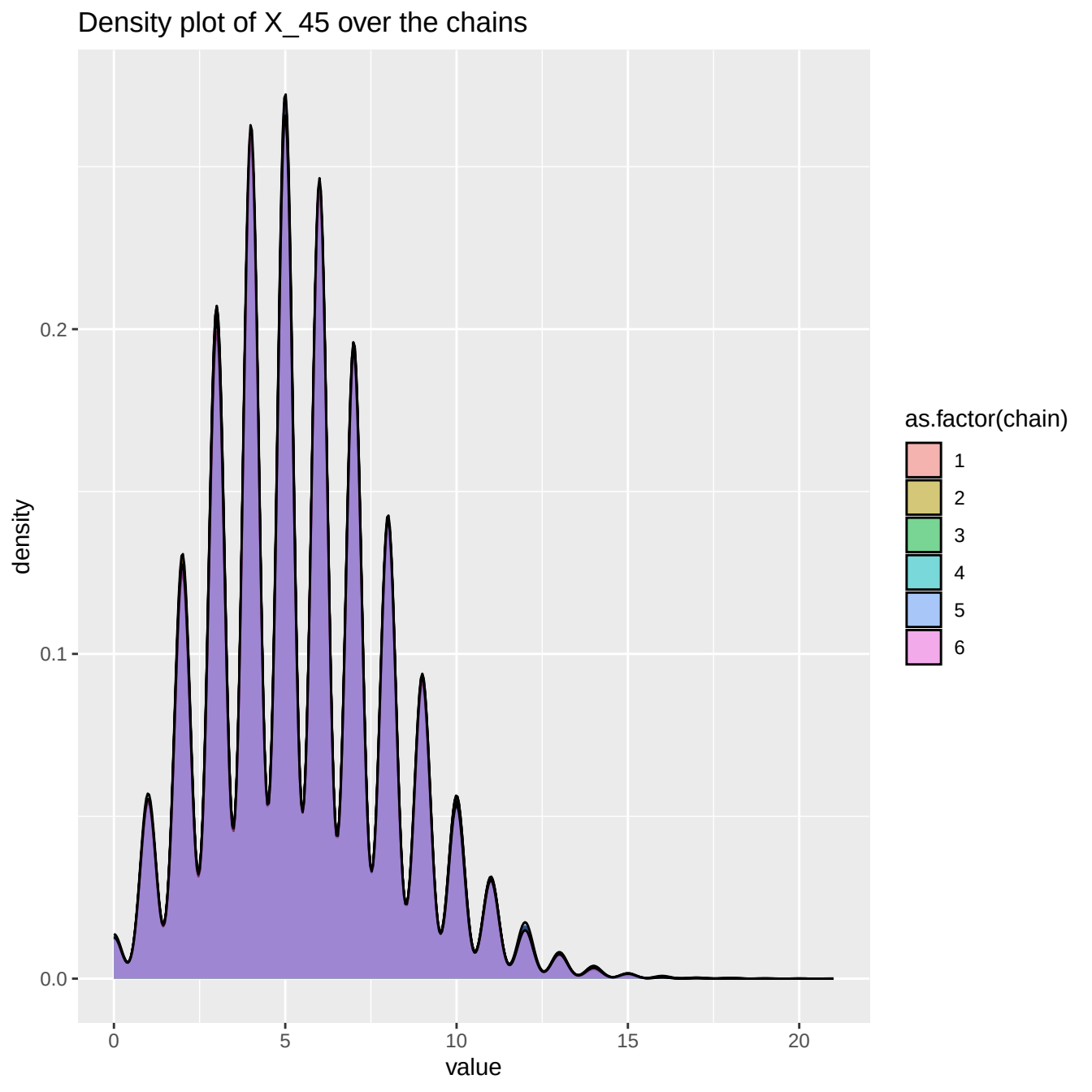

Density plot of X_40 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

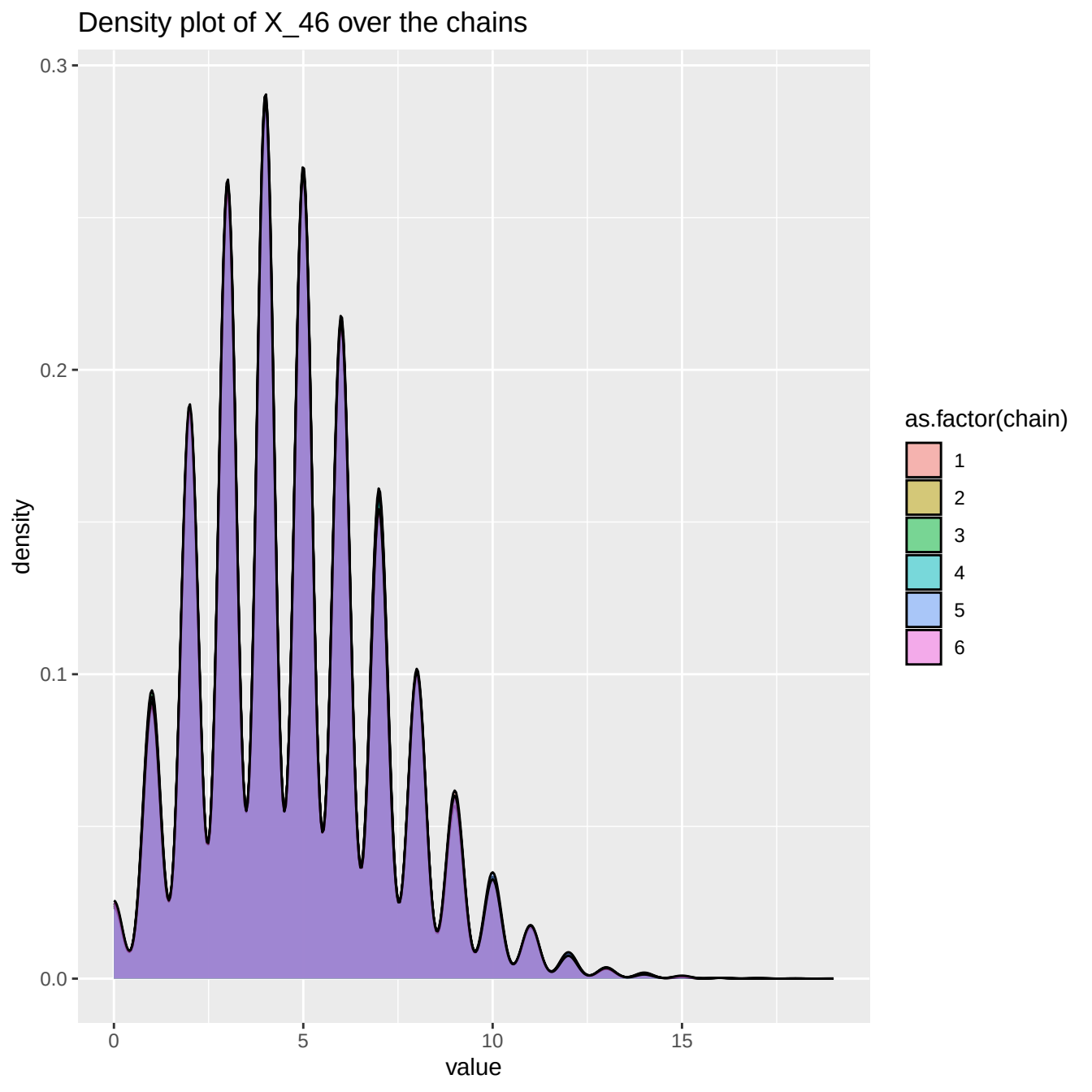

Density plot of X_41 over the chains
density
0.0
0.1
0.2
0.3
0.4
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

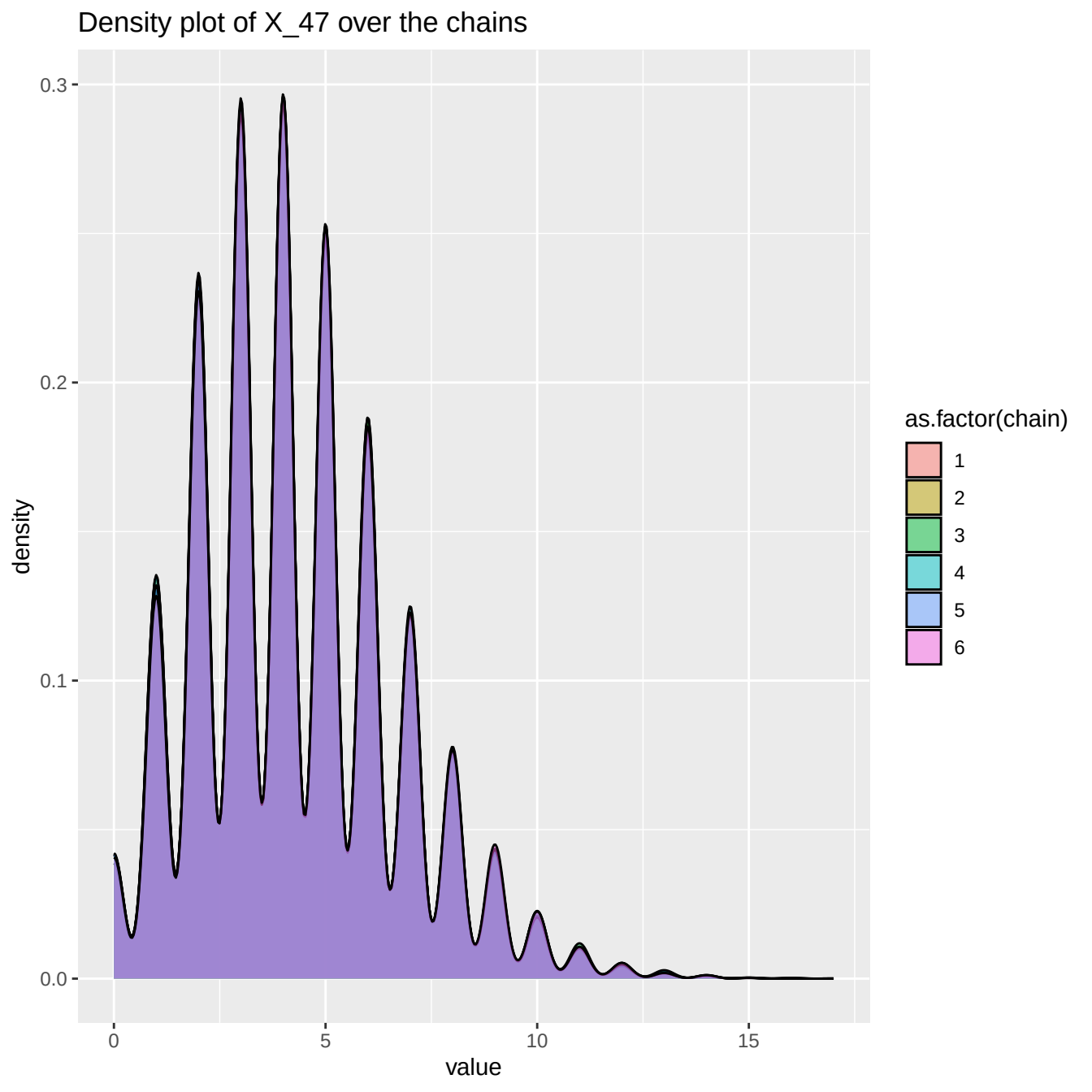

Density plot of X_42 over the chains
density
0.2
0.1
0.0
0
5
10
15
20
25
value
as.factor(chain)
1
2
3
4
5
6

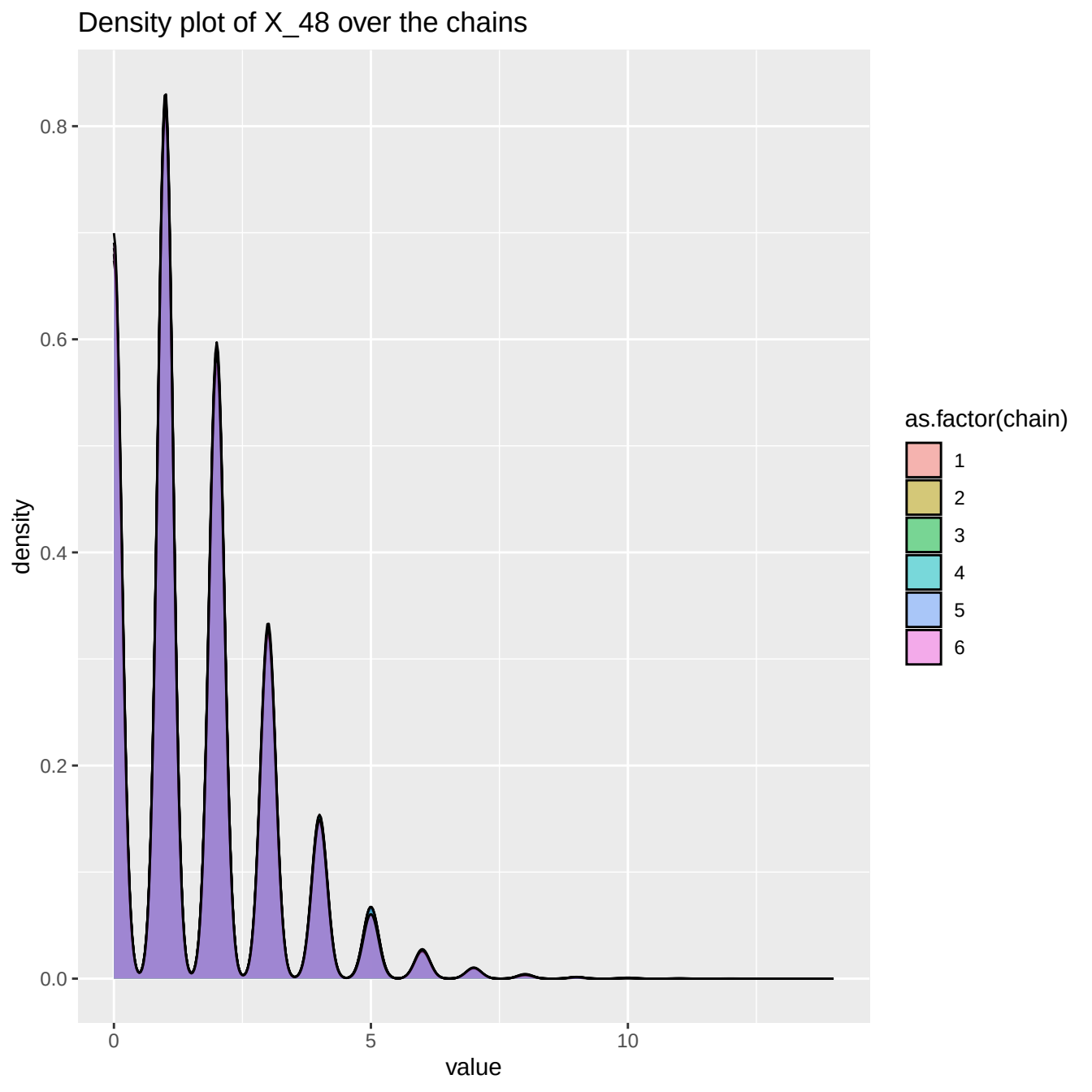

Density plot of X_43 over the chains
density
0.75
0.50
0.25
0.00
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

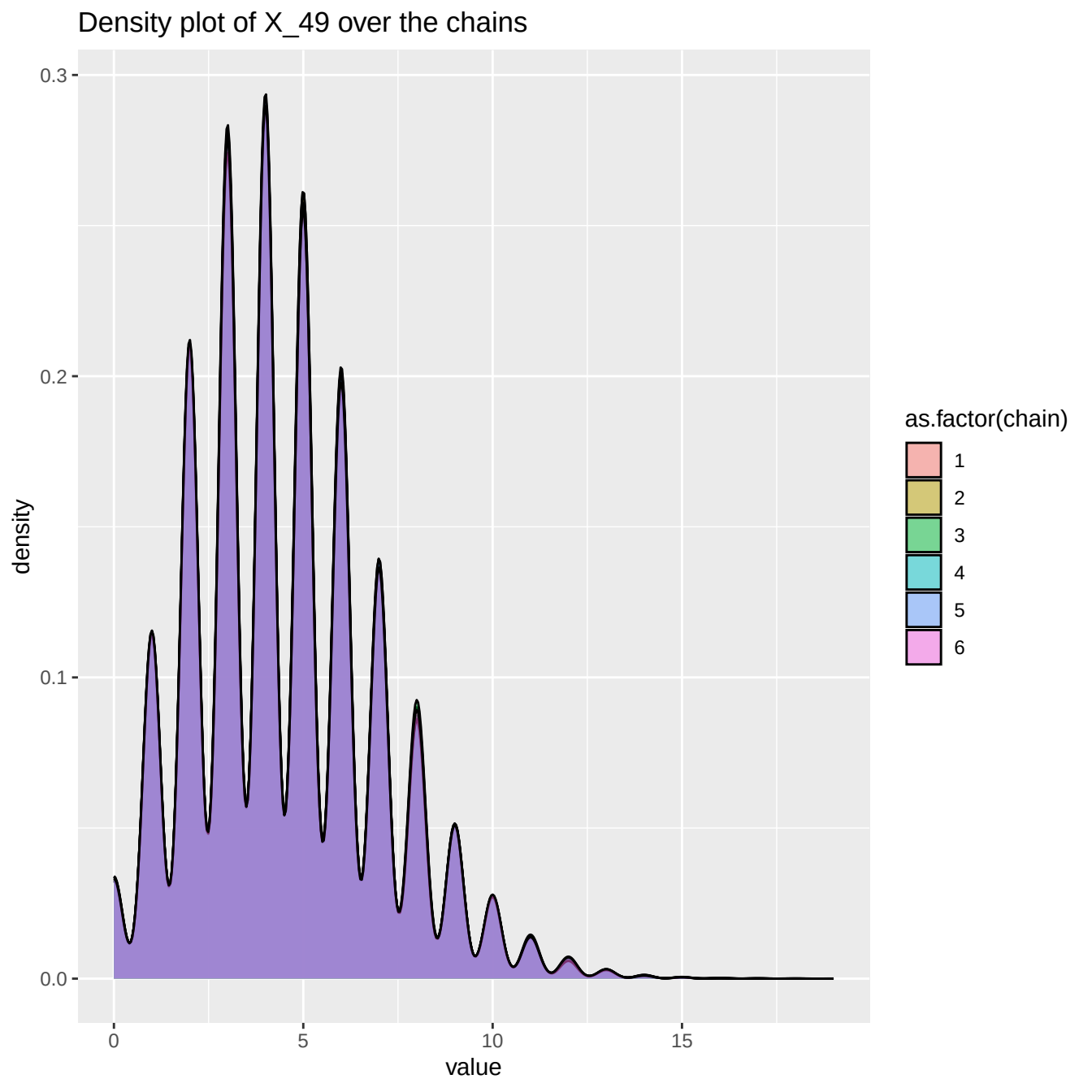

Density plot of X_44 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

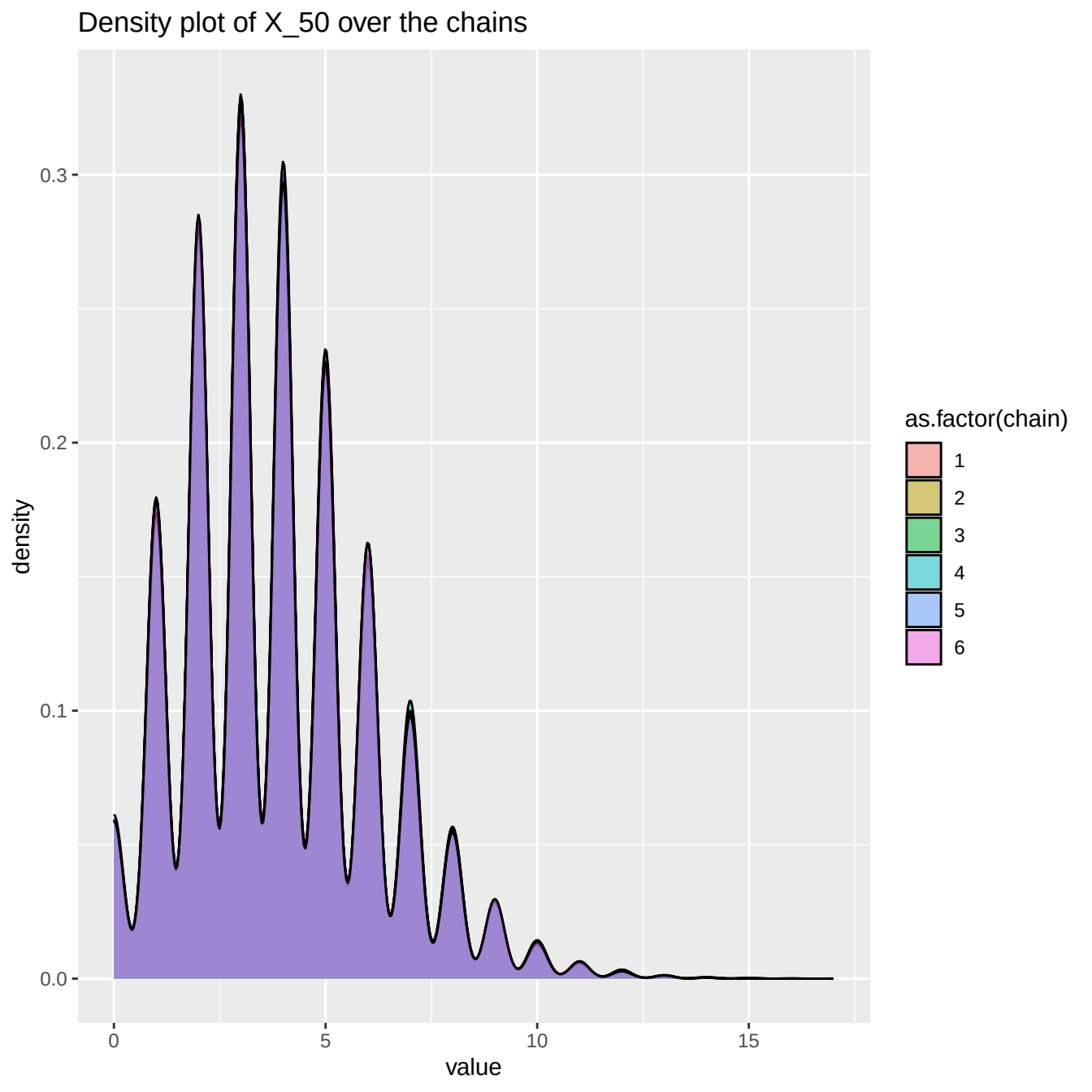

Density plot of X_45 over the chains
density
0.0
0.1
0.2
0
5
10
15
20
value
as.factor(chain)
1
2
3
4
5
6

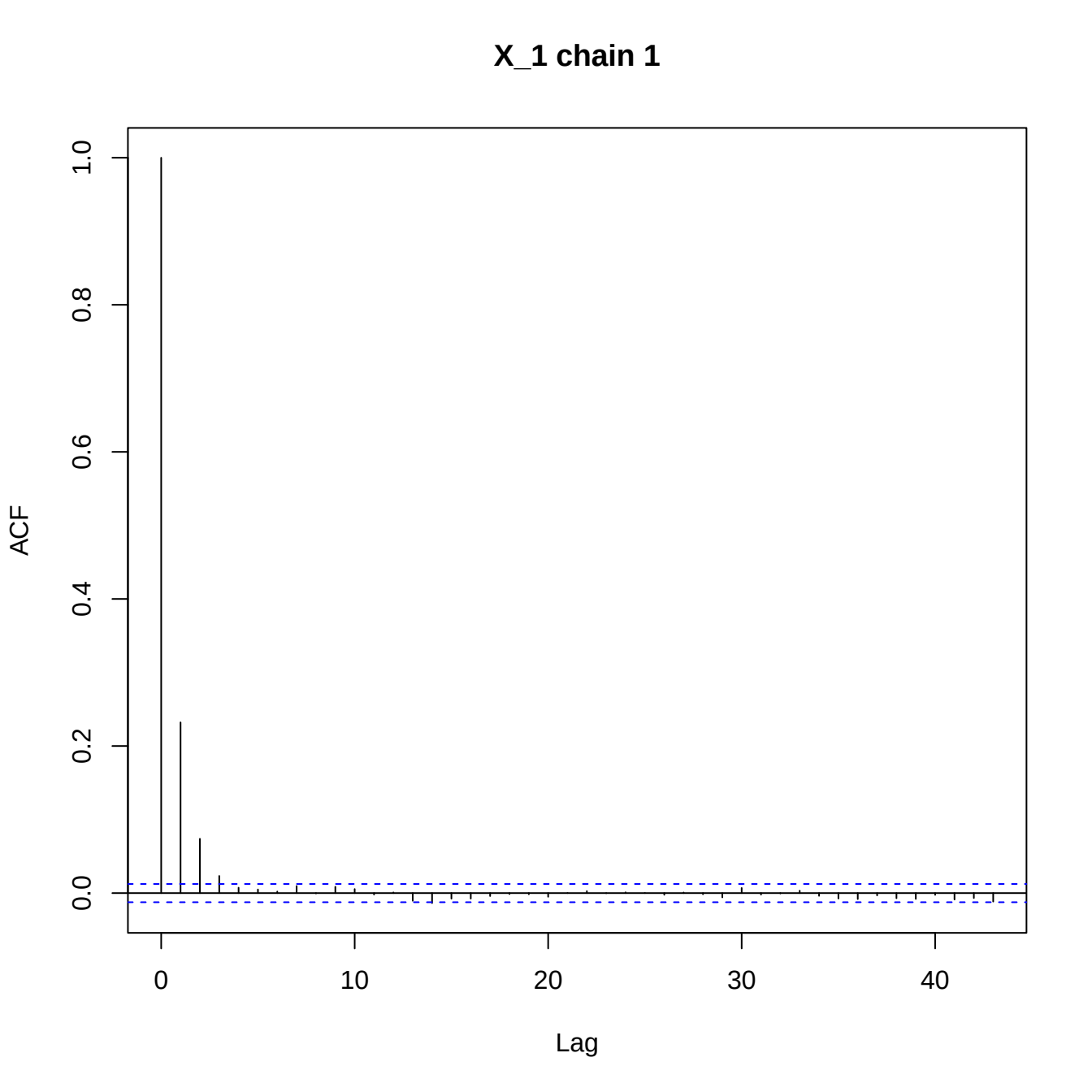

Density plot of X_46 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

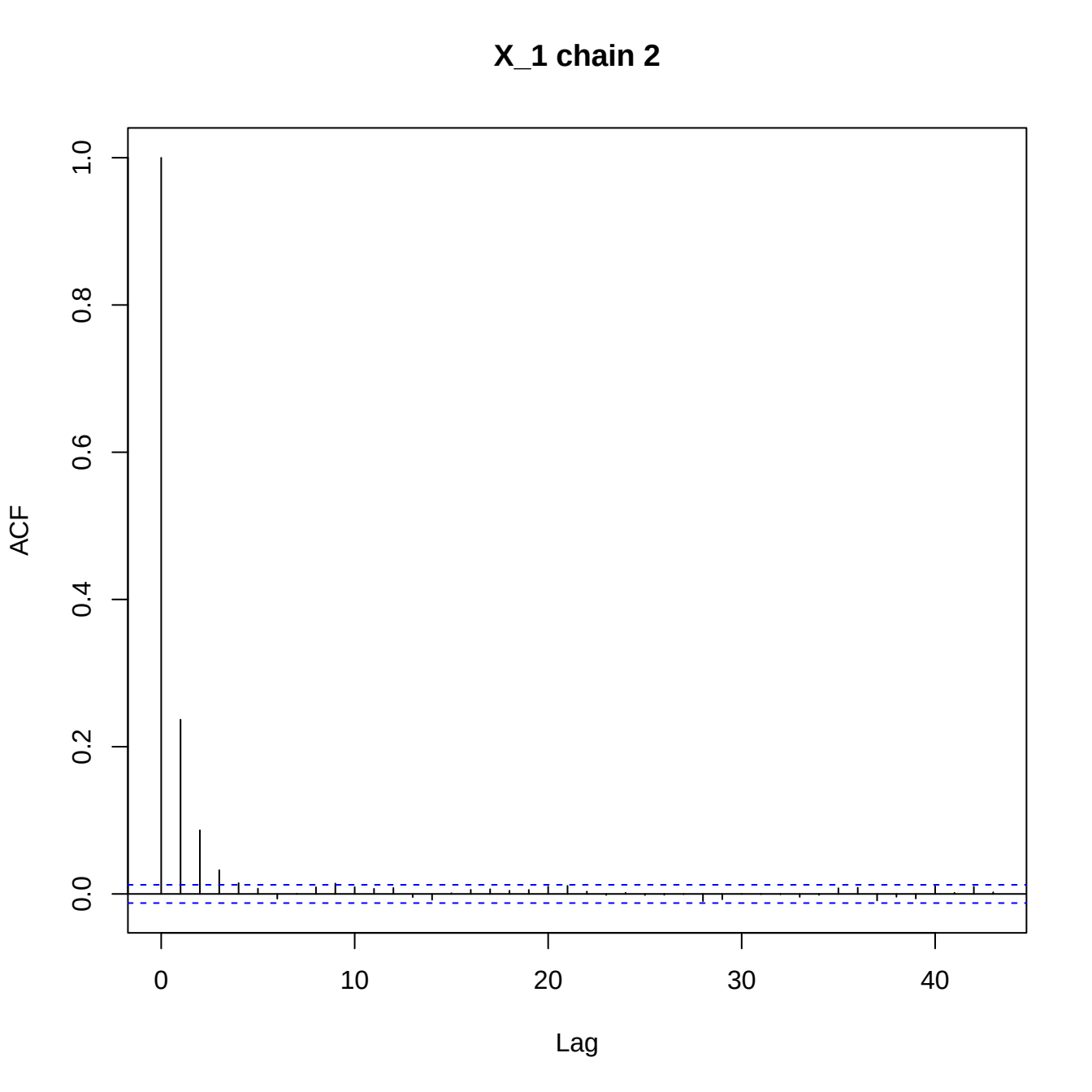

Density plot of X_47 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

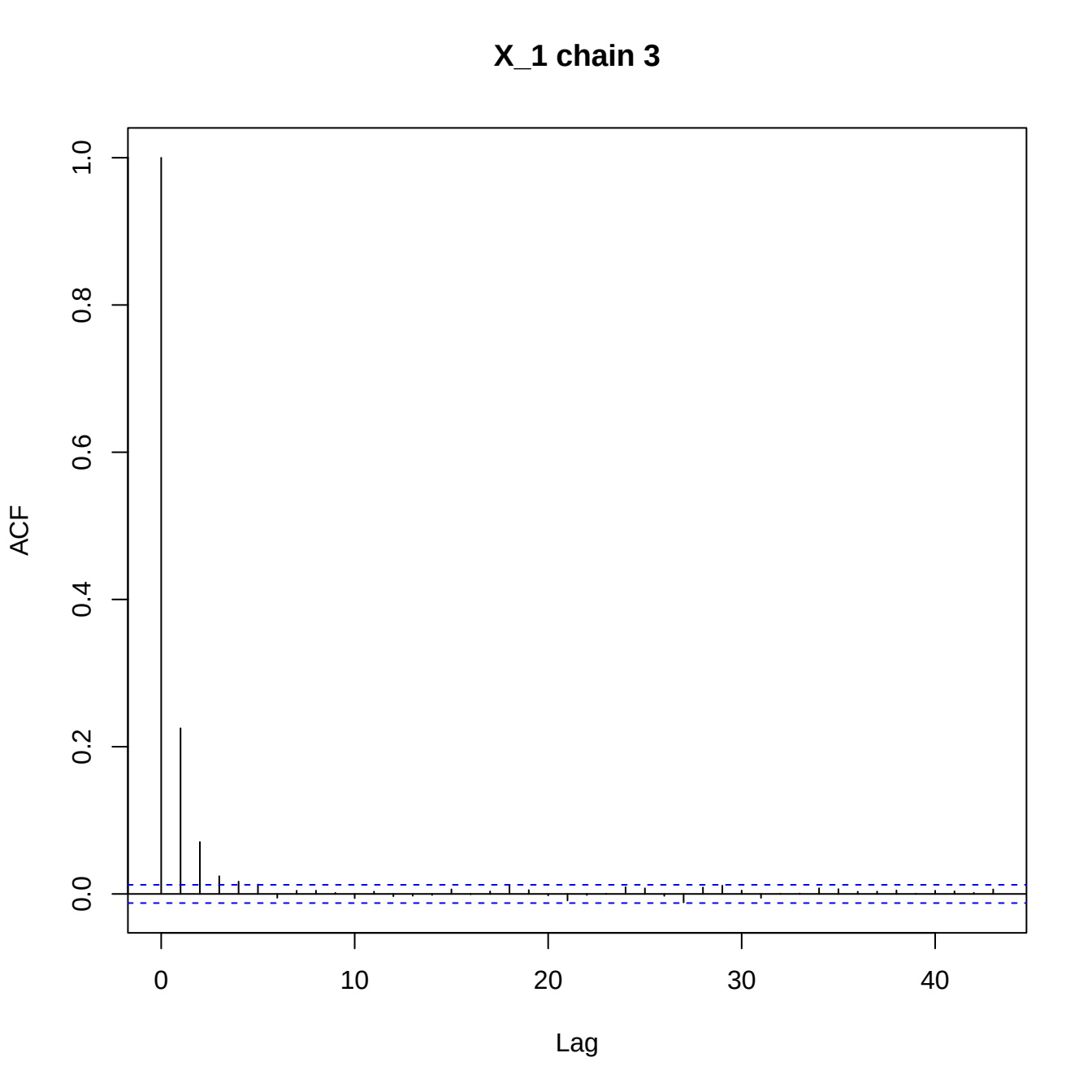

Density plot of X_48 over the chains
density
0.0
0.2
0.4
0.6
0.8
0
5
10
value
as.factor(chain)
1
2
3
4
5
6

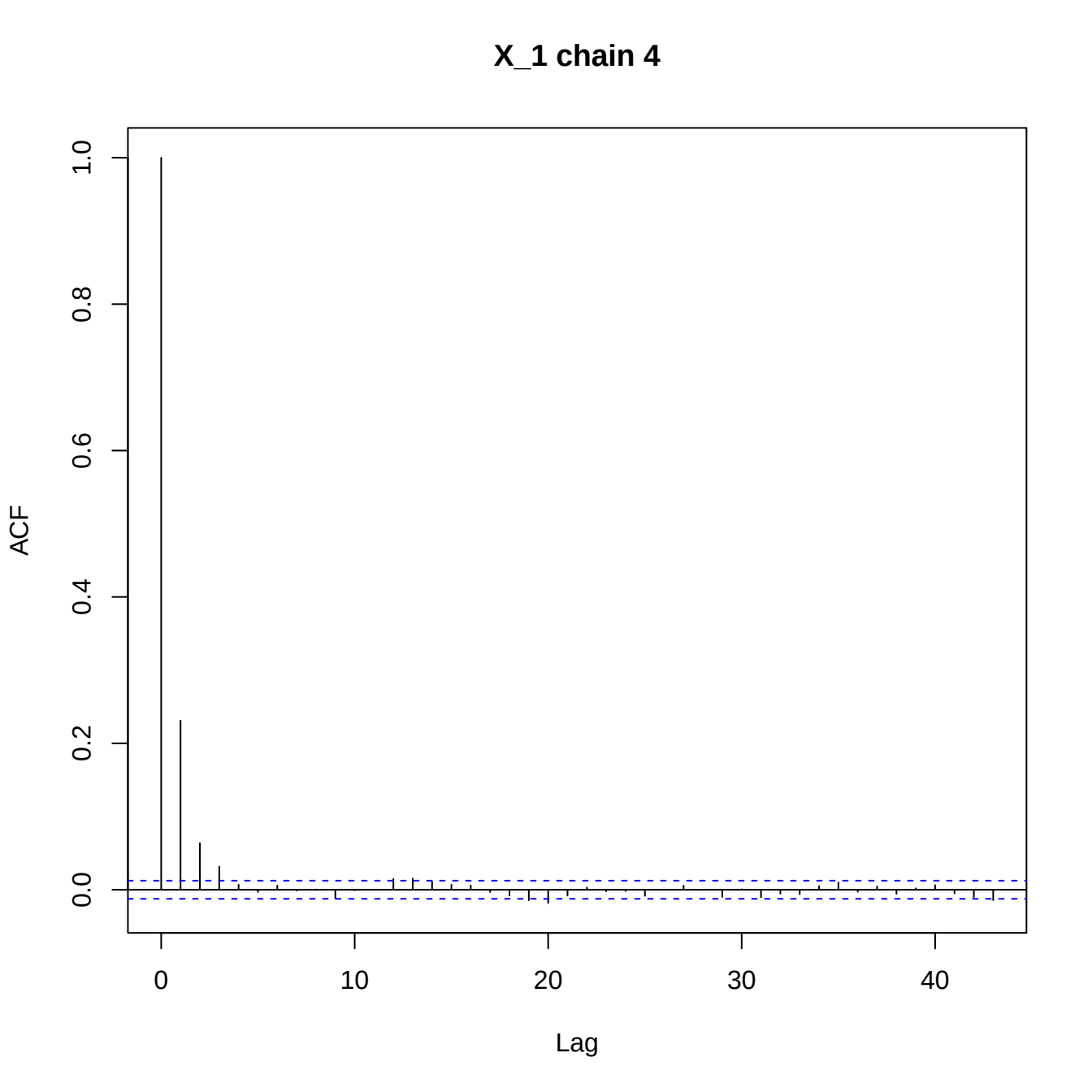

Density plot of X_49 over the chains
0.3
0.2
0.1
0.0
density
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

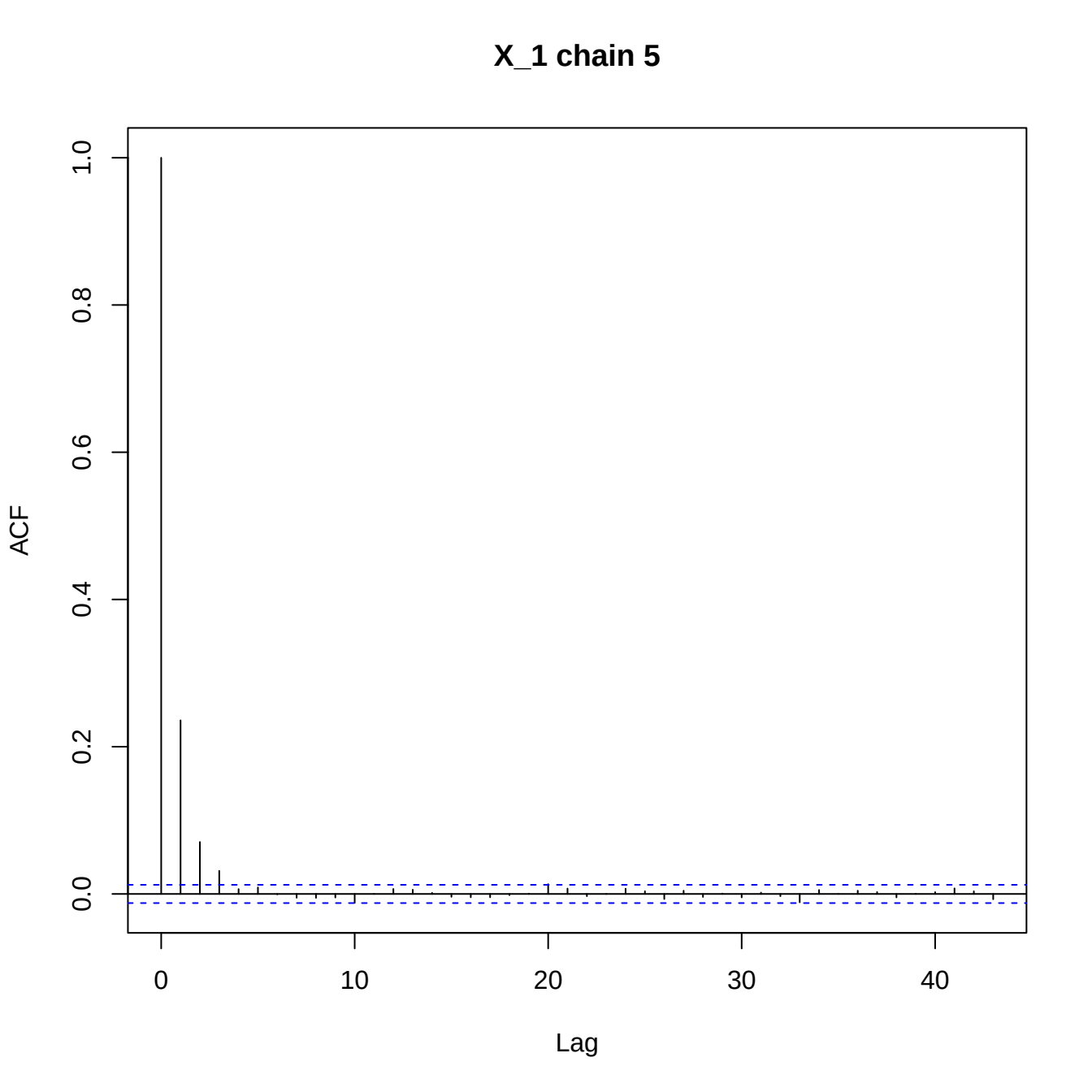

Density plot of X_50 over the chains
density
0.0
0.1
0.2
0.3
0
5
10
15
value
as.factor(chain)
1
2
3
4
5
6

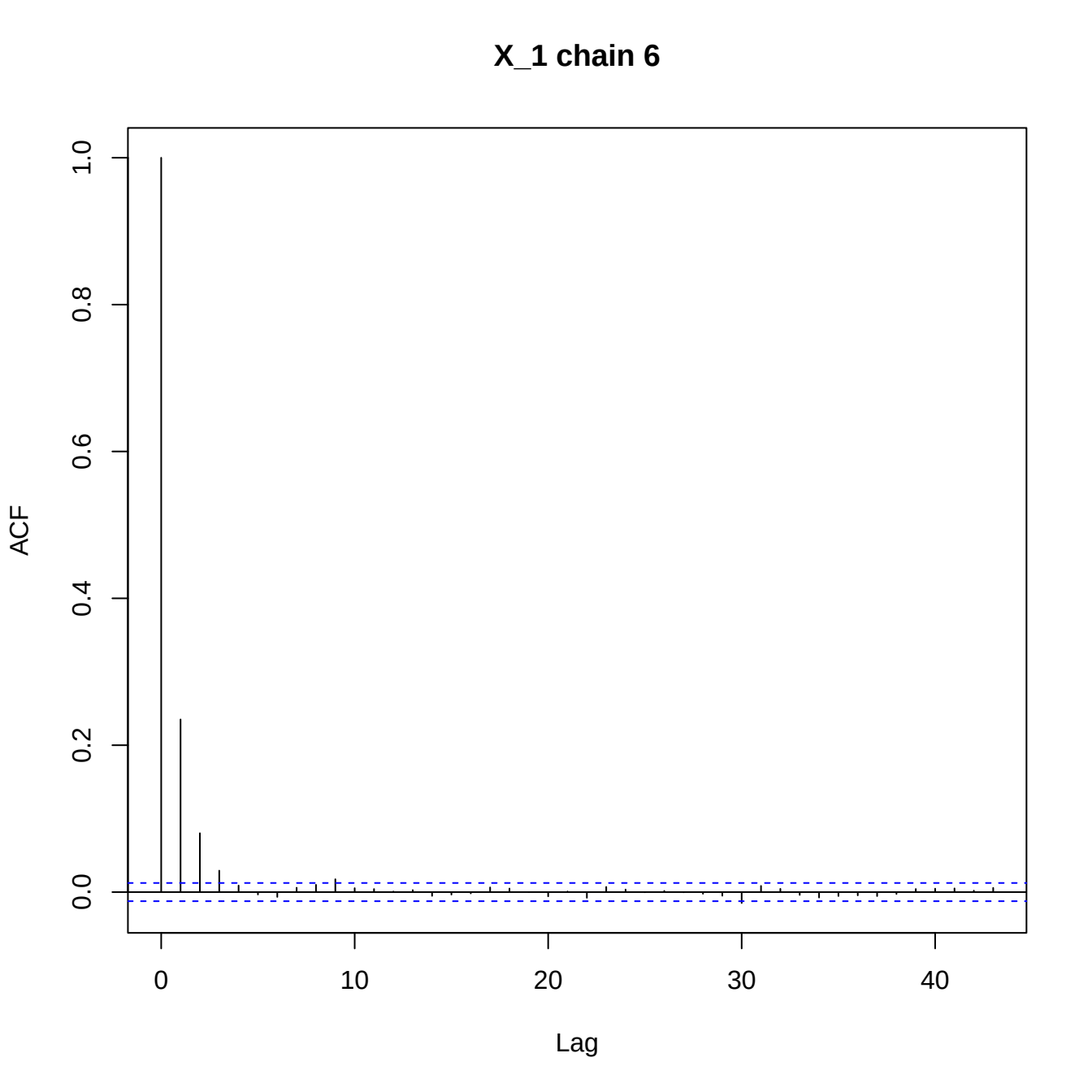

X_1 chain 1
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

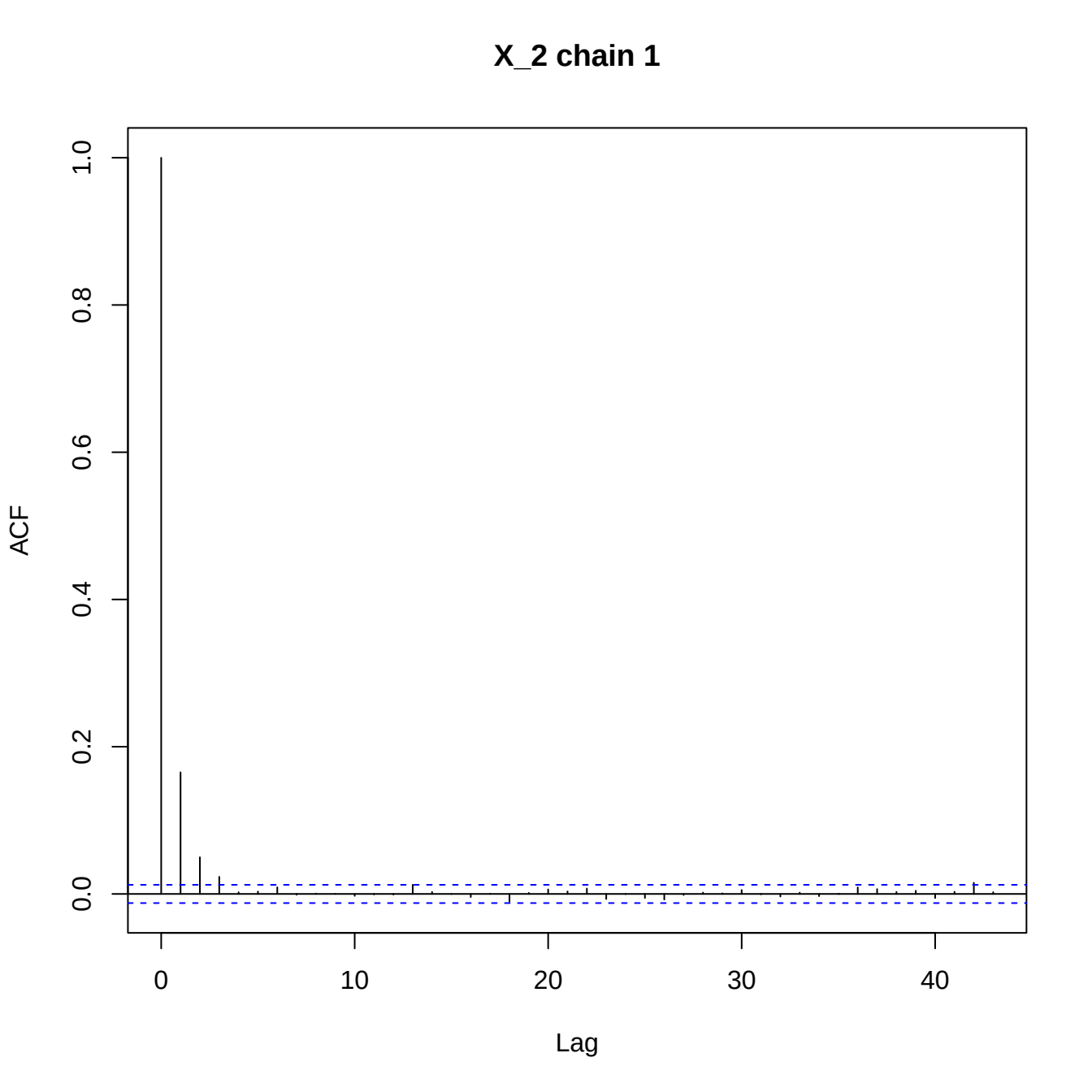

X_1 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

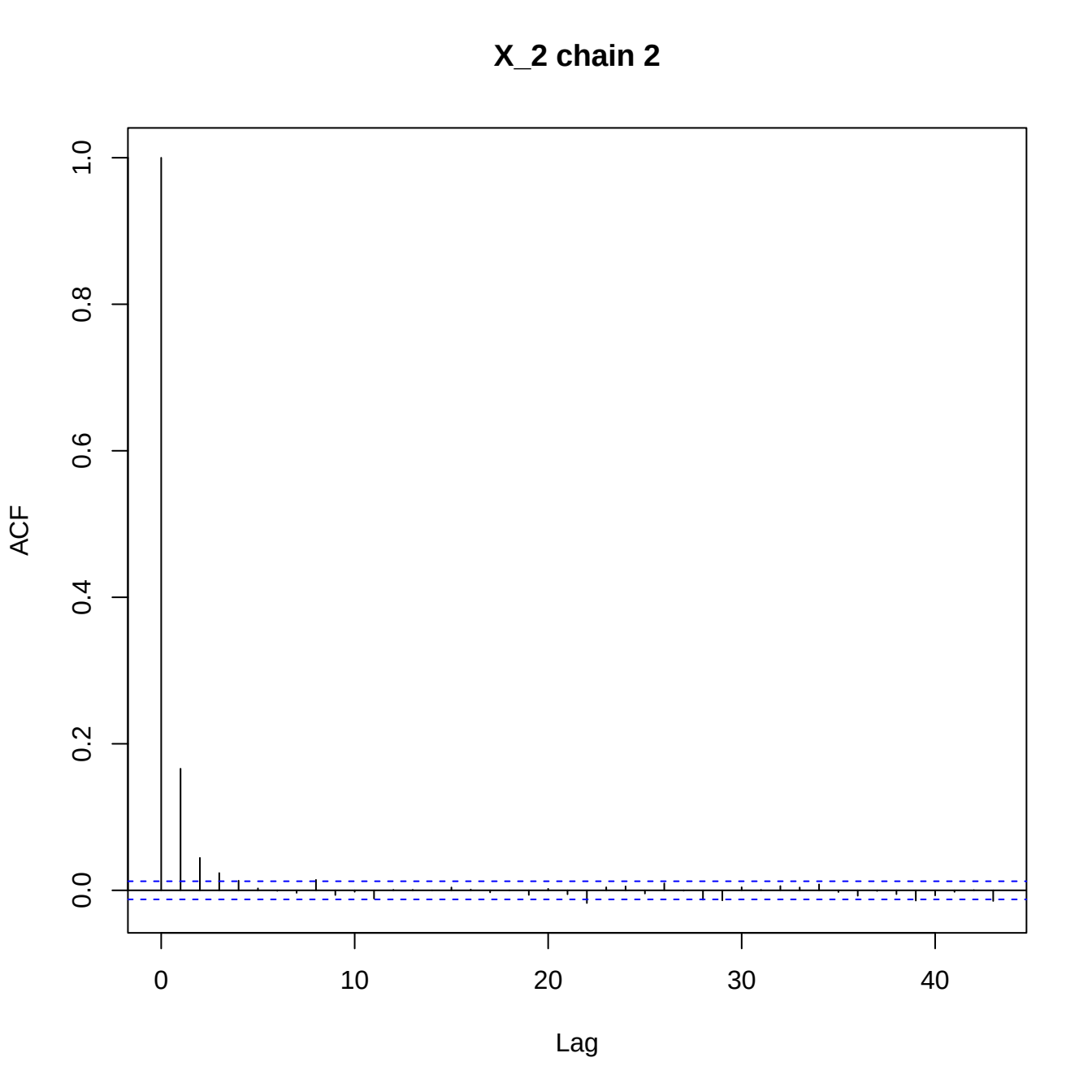

X_1 chain 3
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

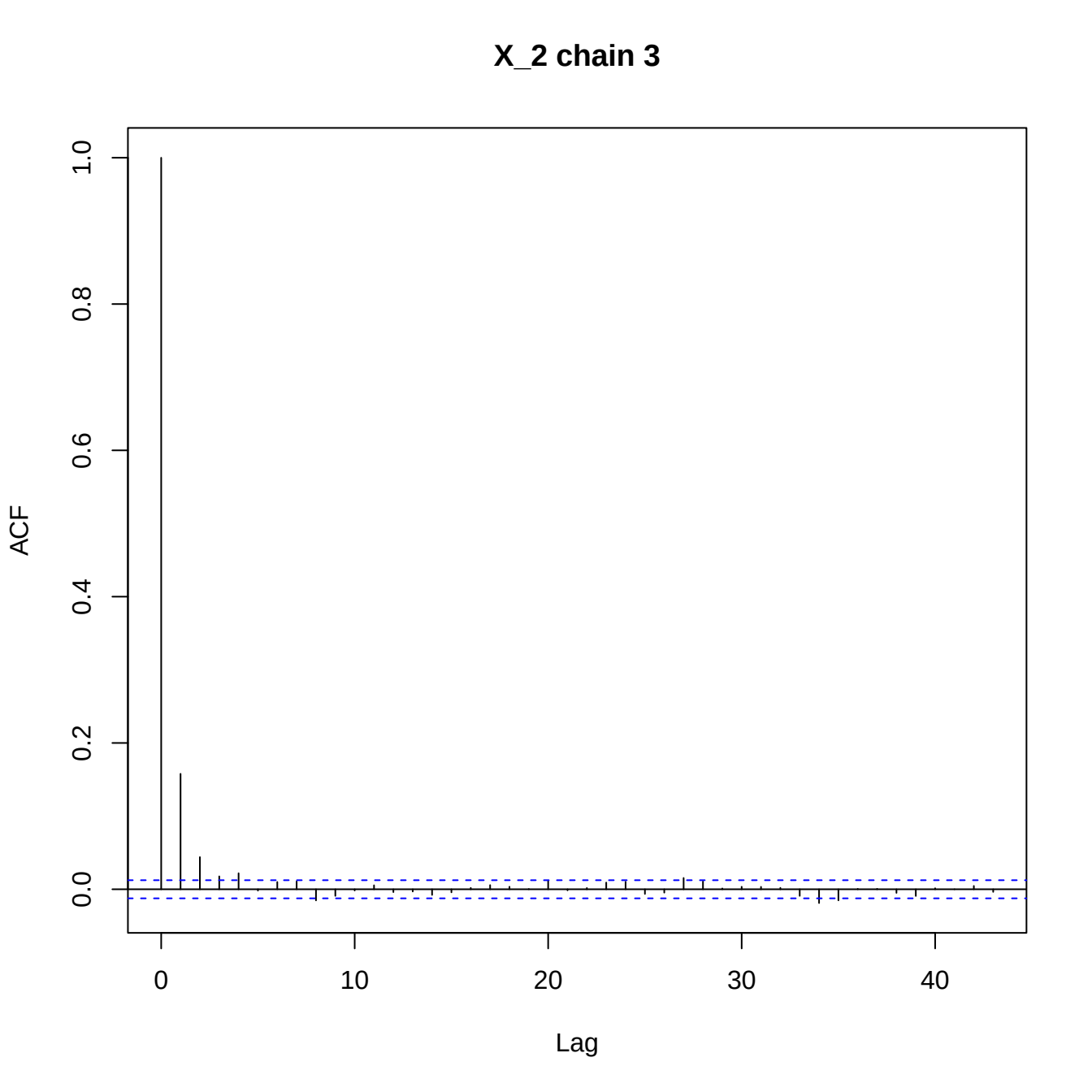

X_1 chain 4
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

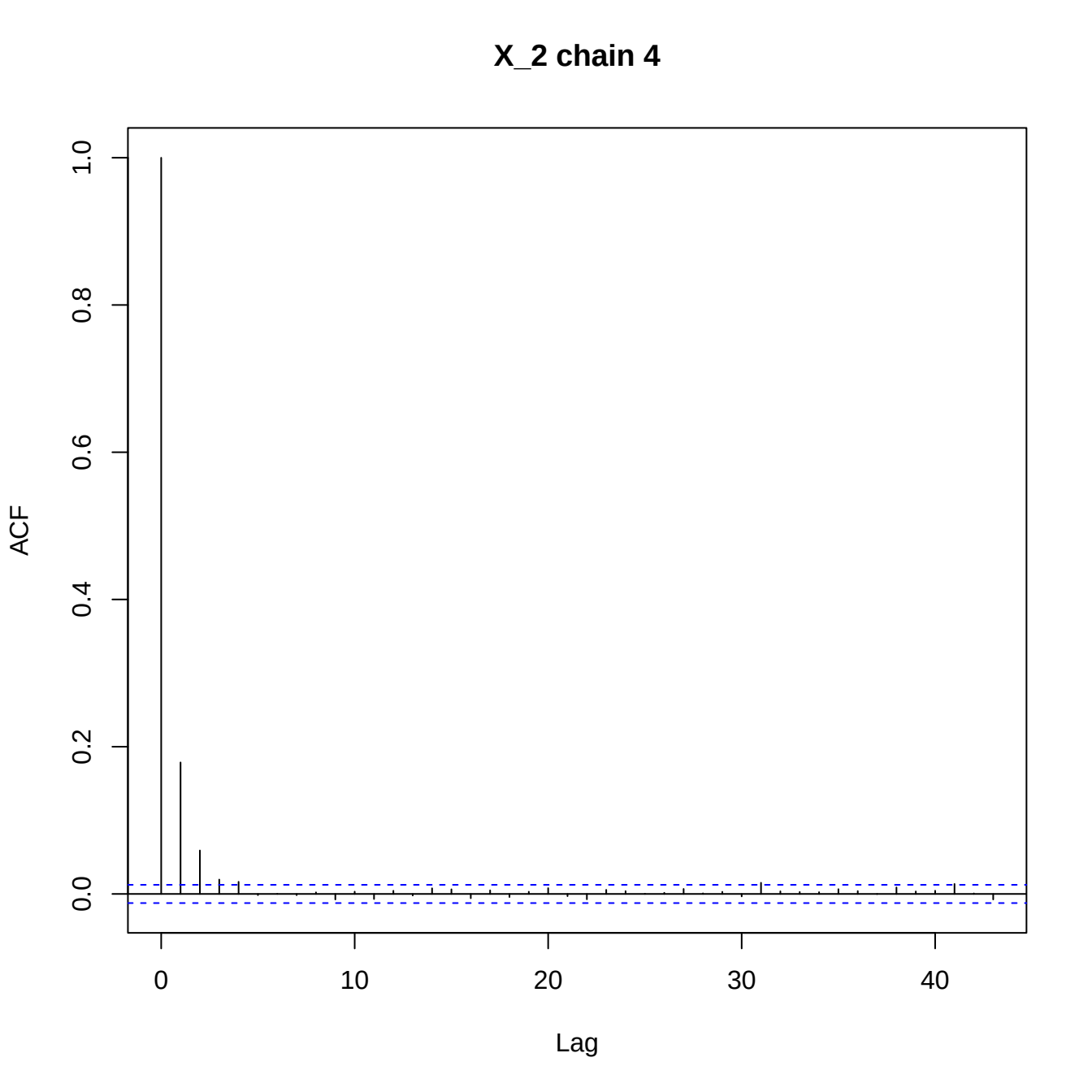

X_1 chain 5
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

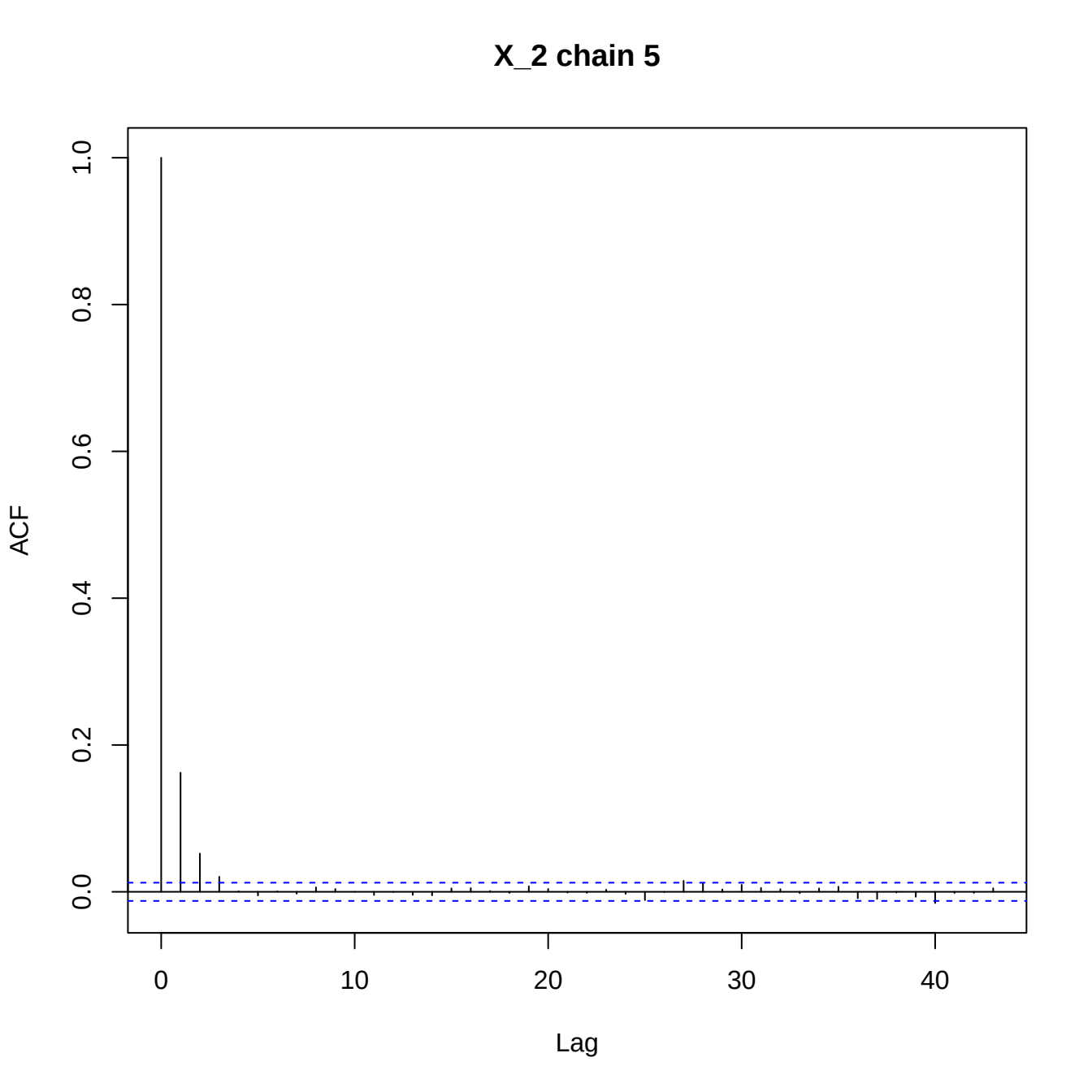

X_1 chain 6
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

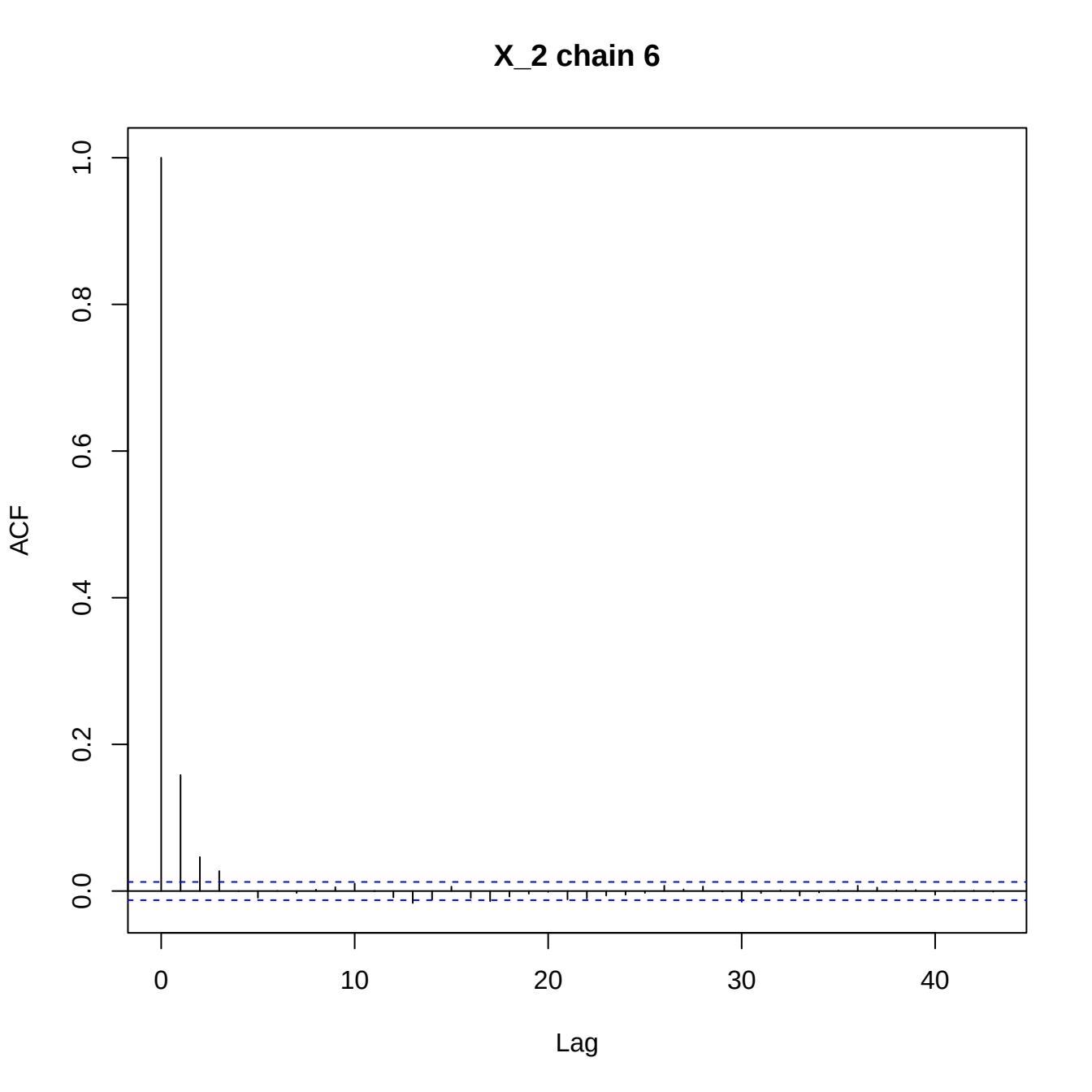

X_2 chain 1
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

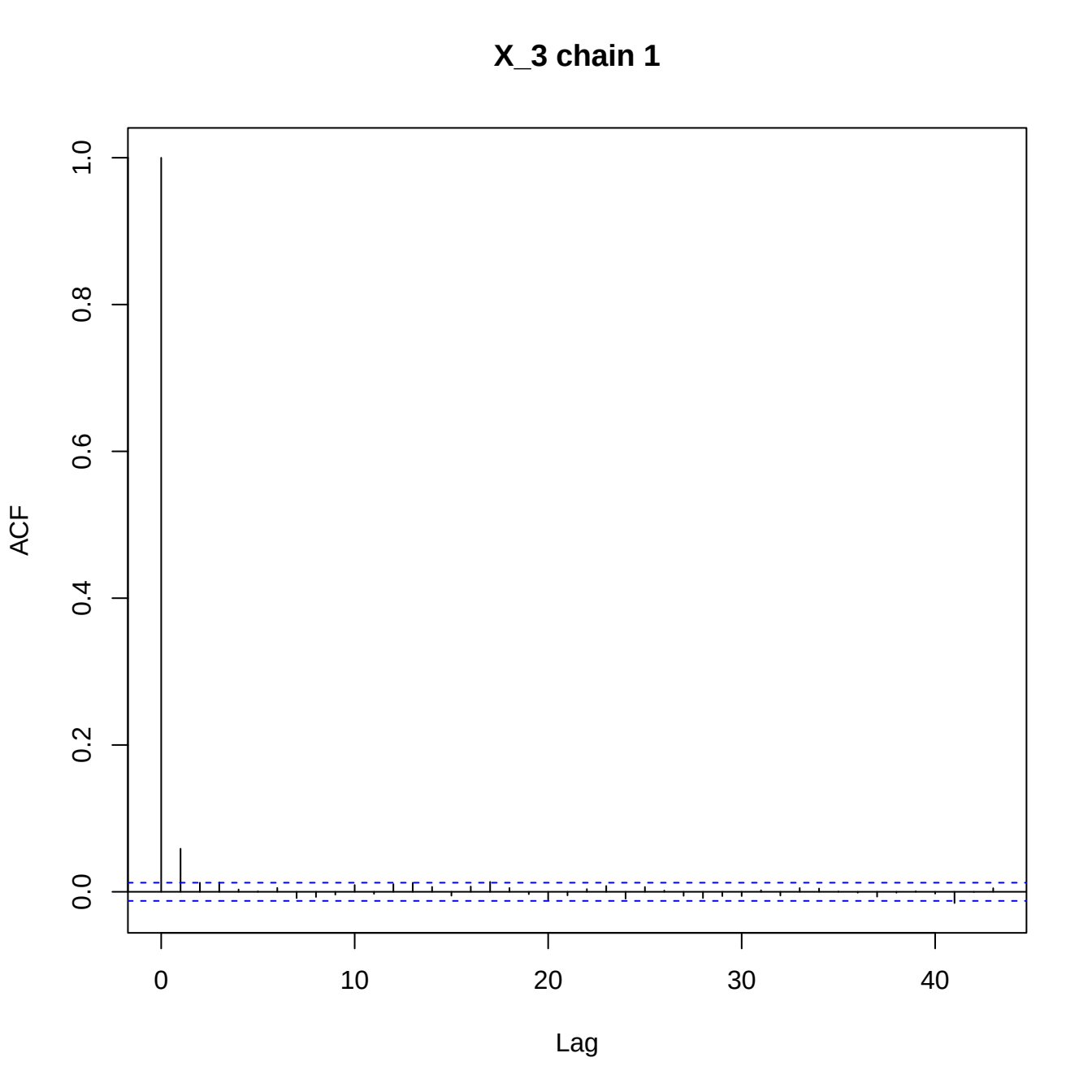

X_2 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

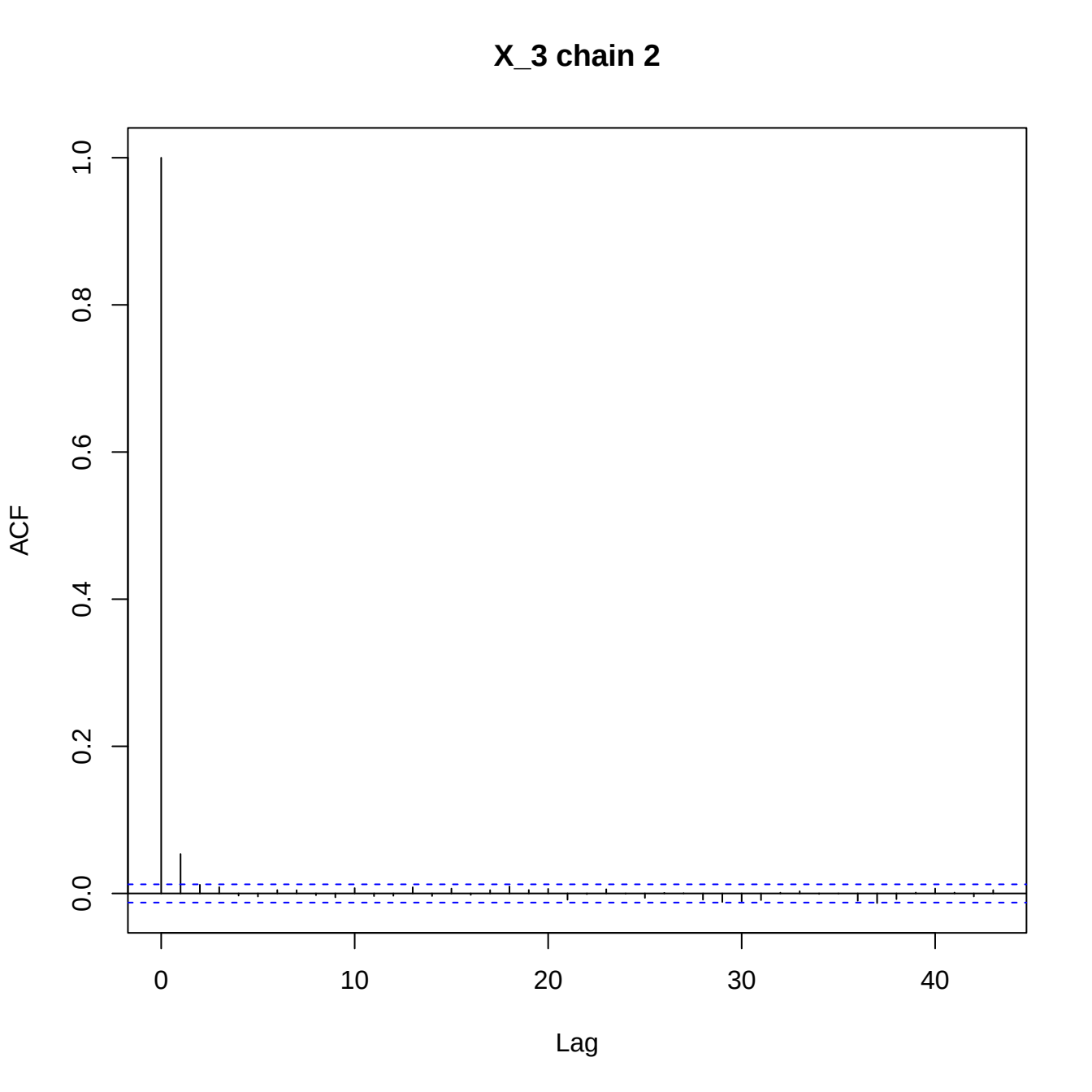

X_2 chain 3
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

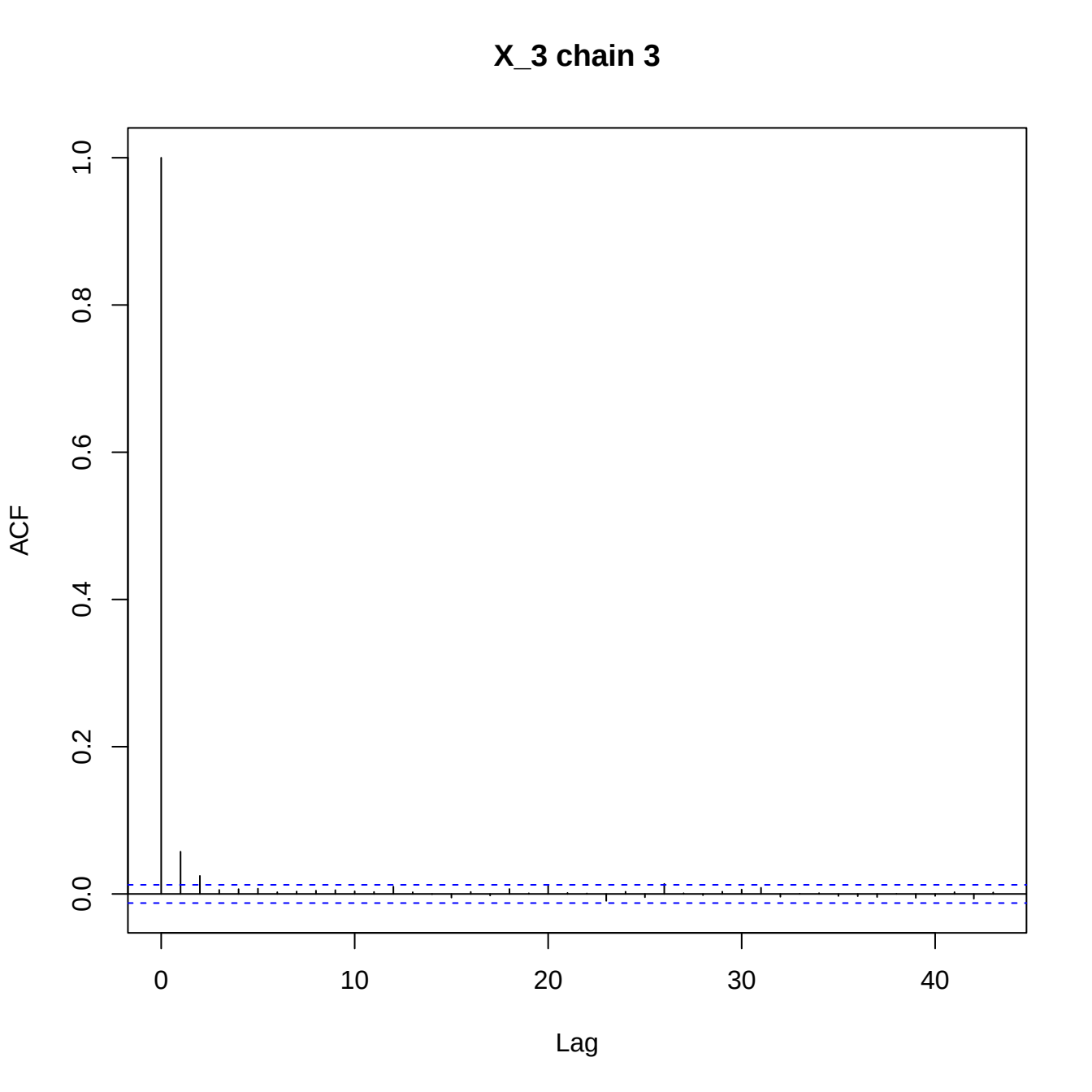

X_2 chain 4
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

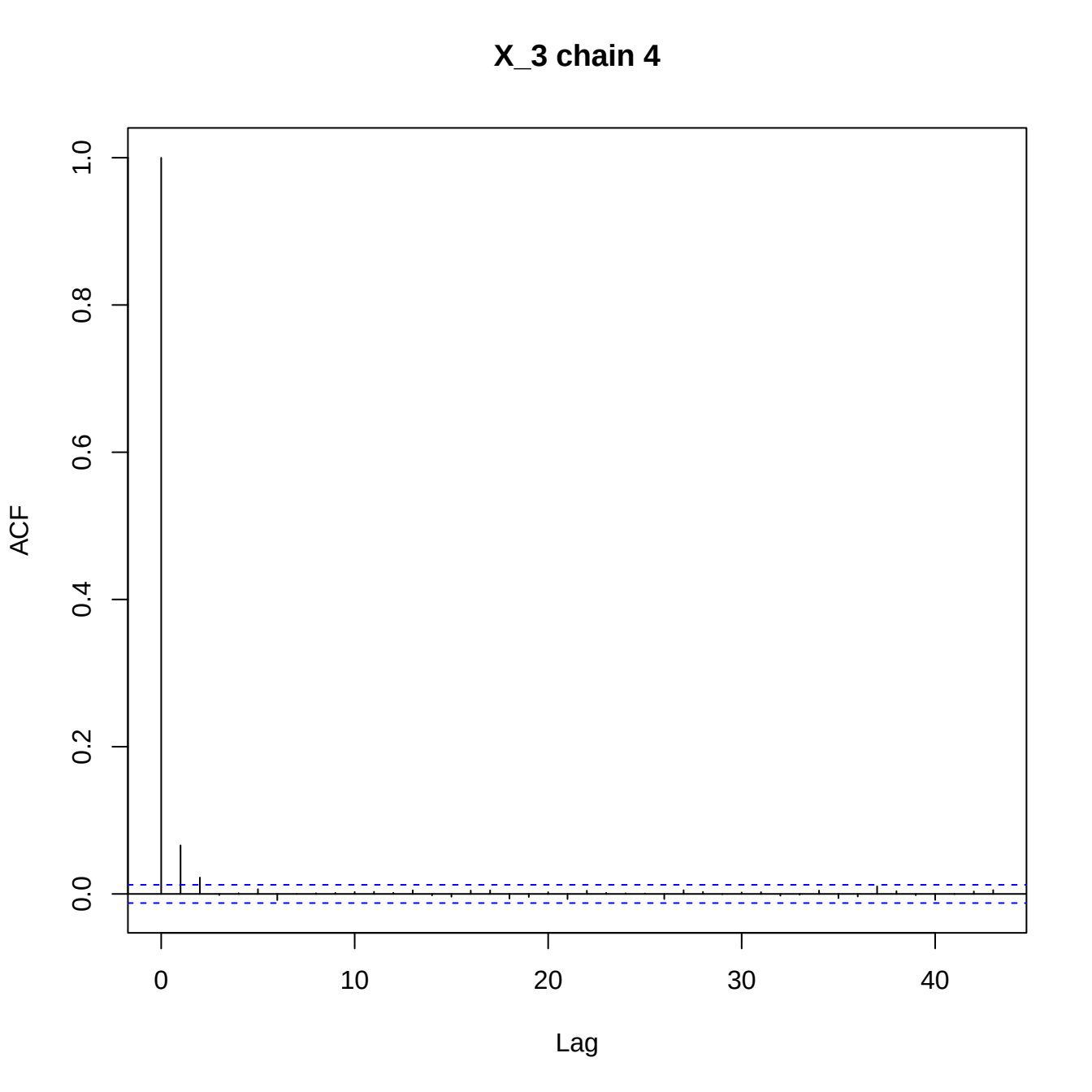

X_2 chain 5
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

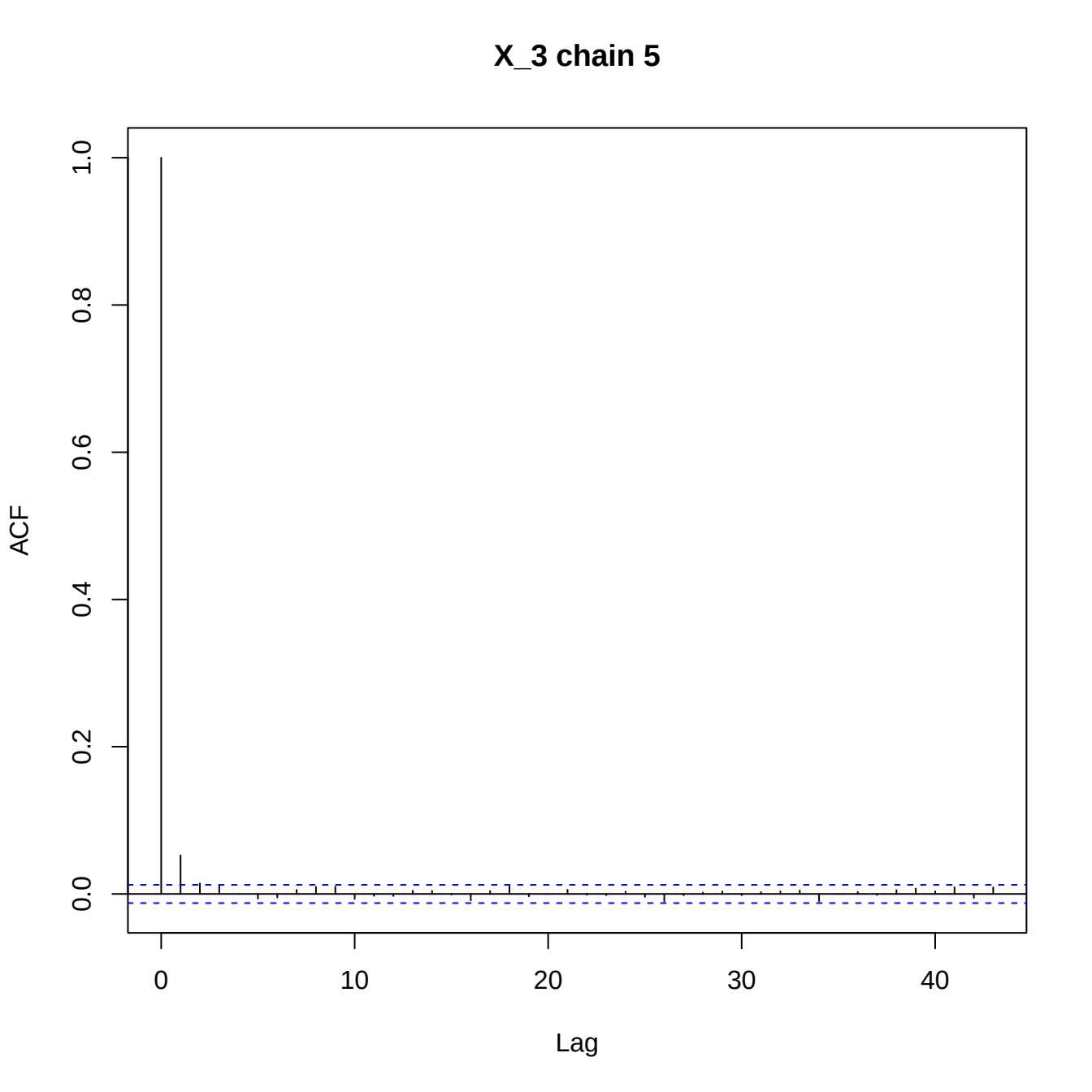

X_2 chain 6
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

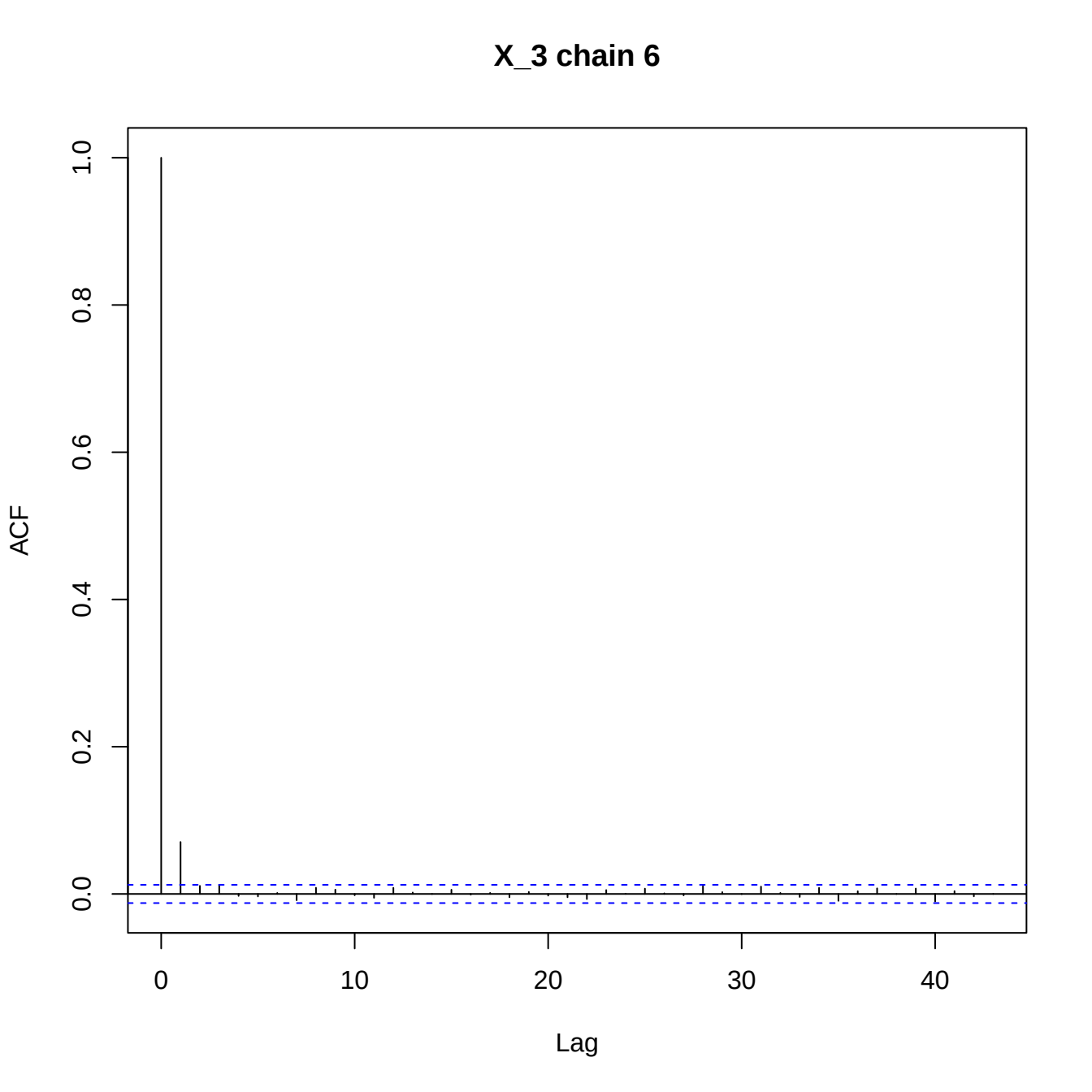

X_3 chain 1
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

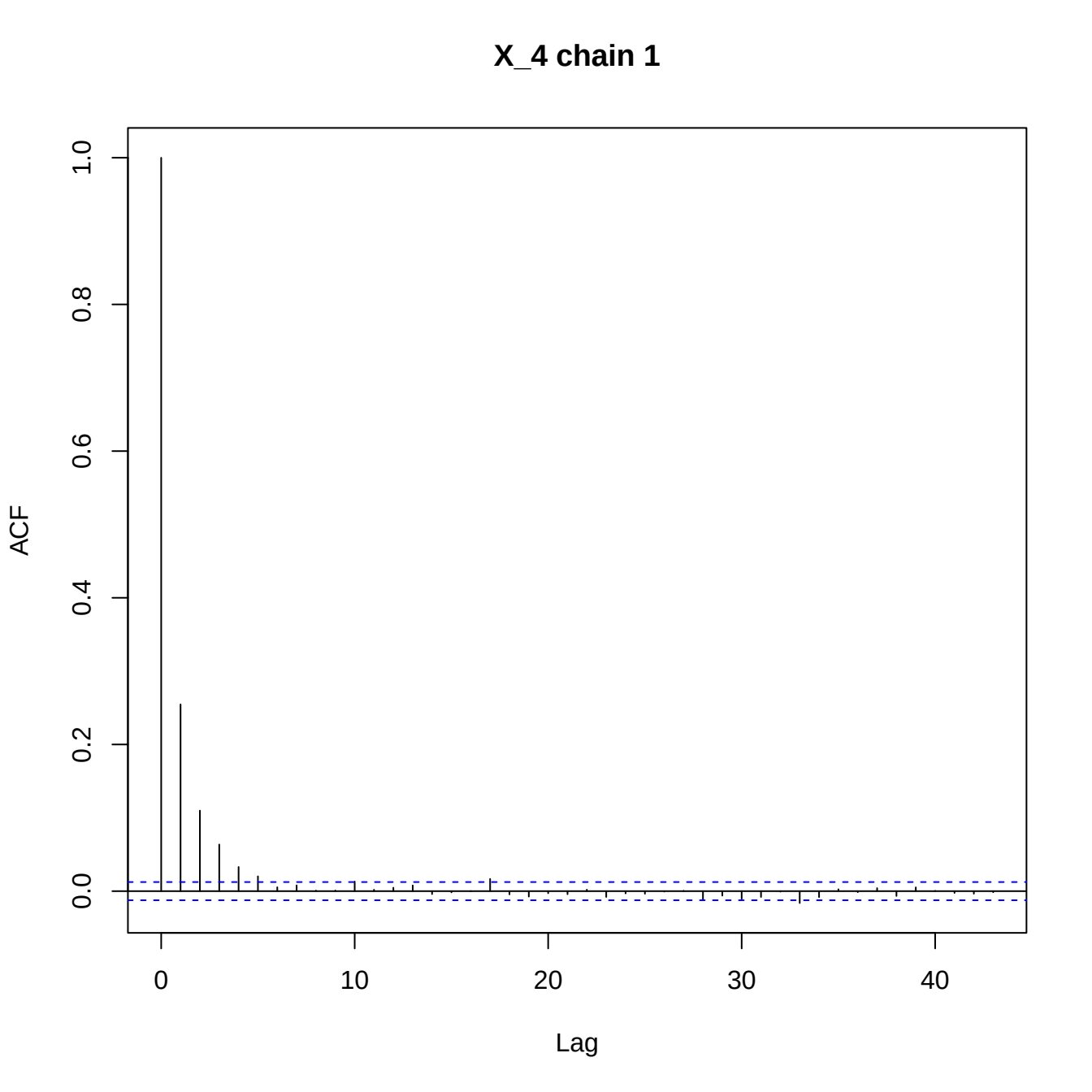

X_3 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

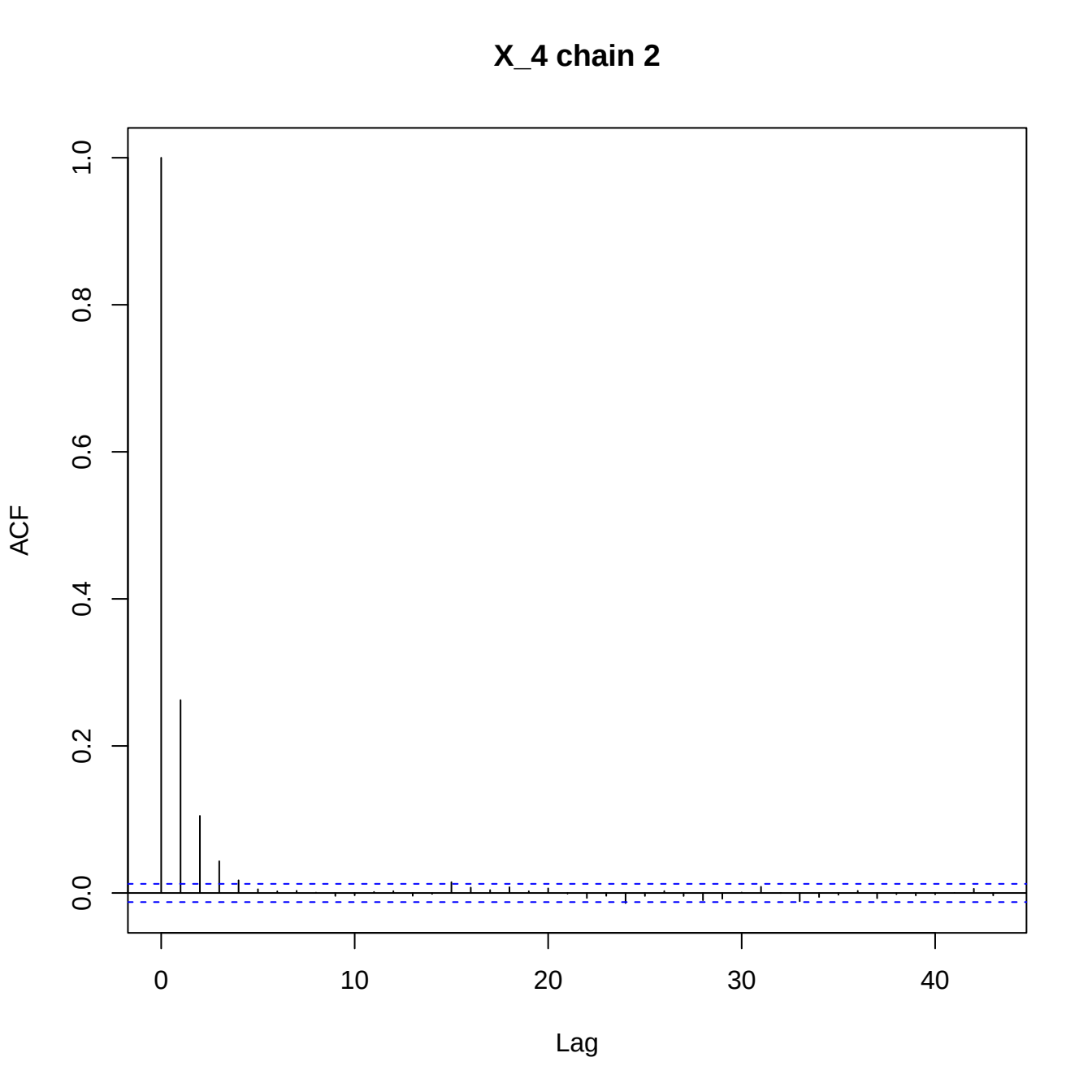

X_3 chain 3
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

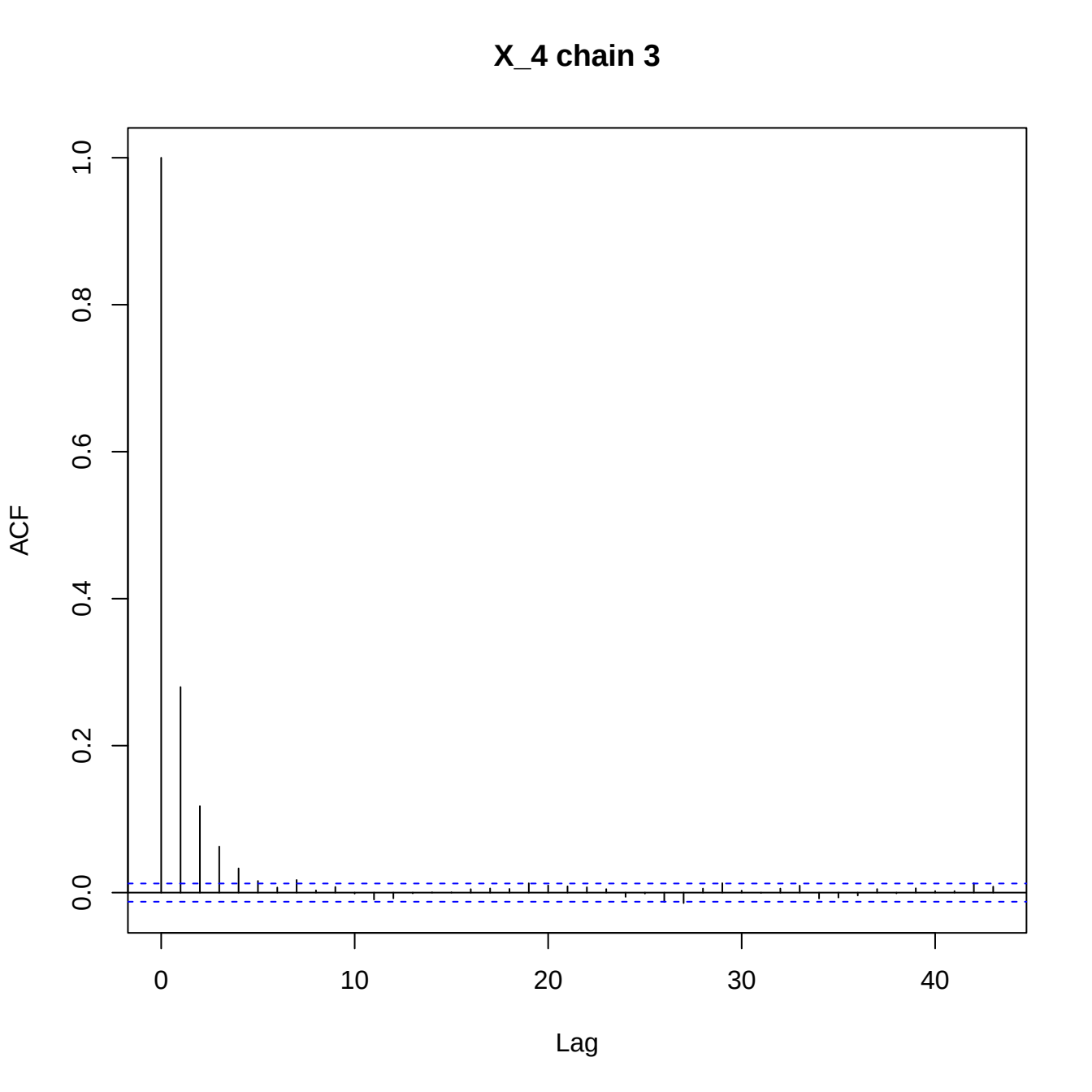

X_3 chain 4
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

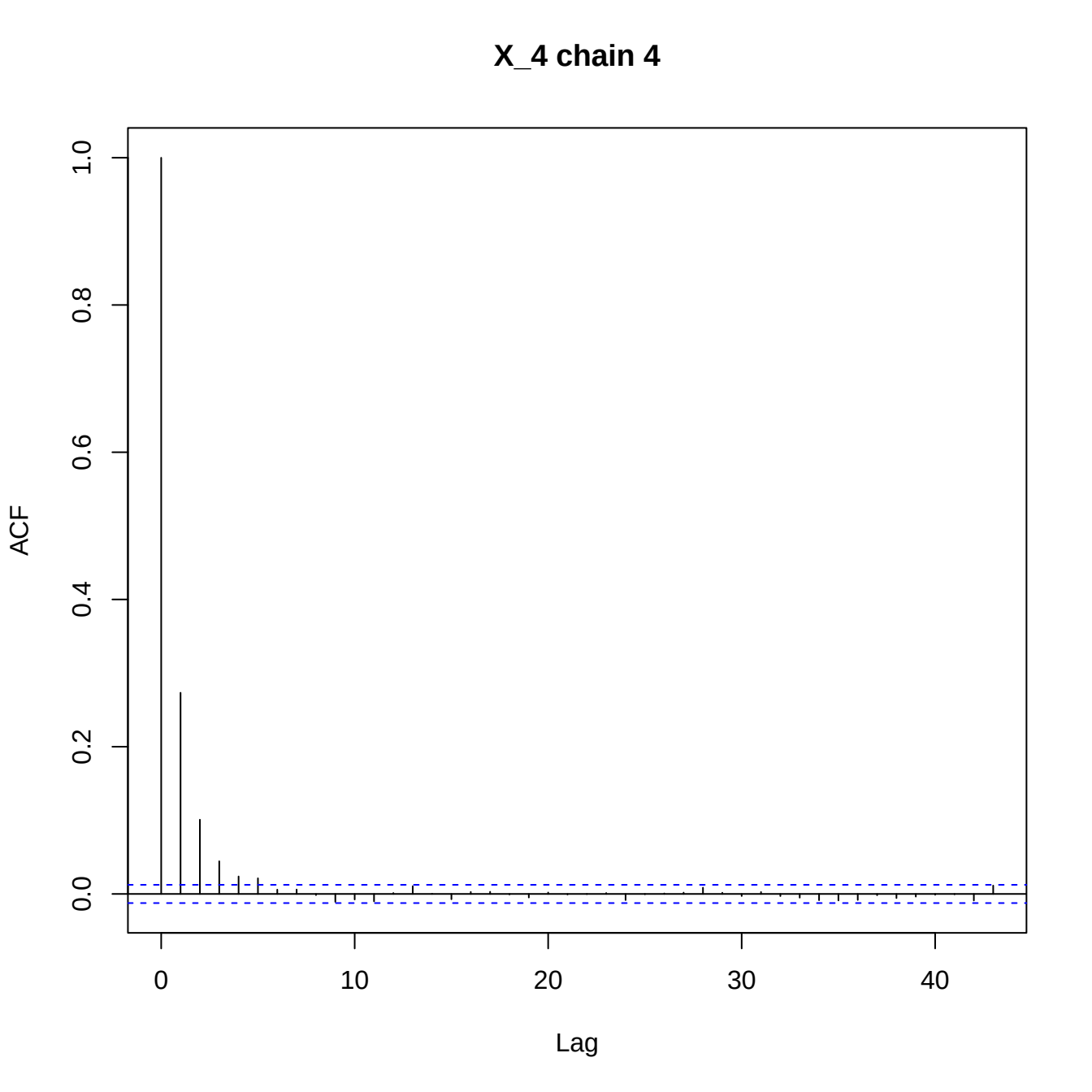

X_3 chain 5
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

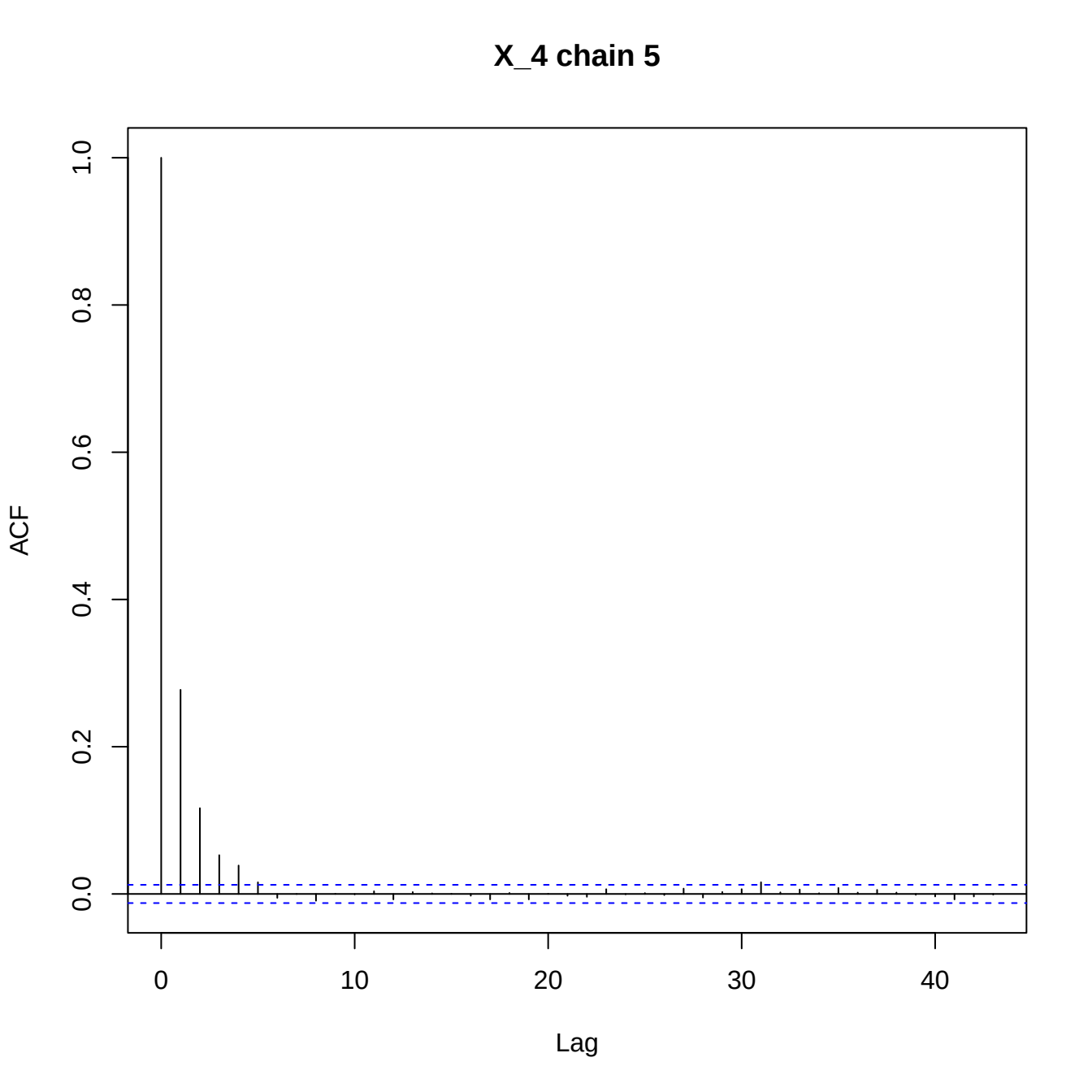

X_3 chain 6
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

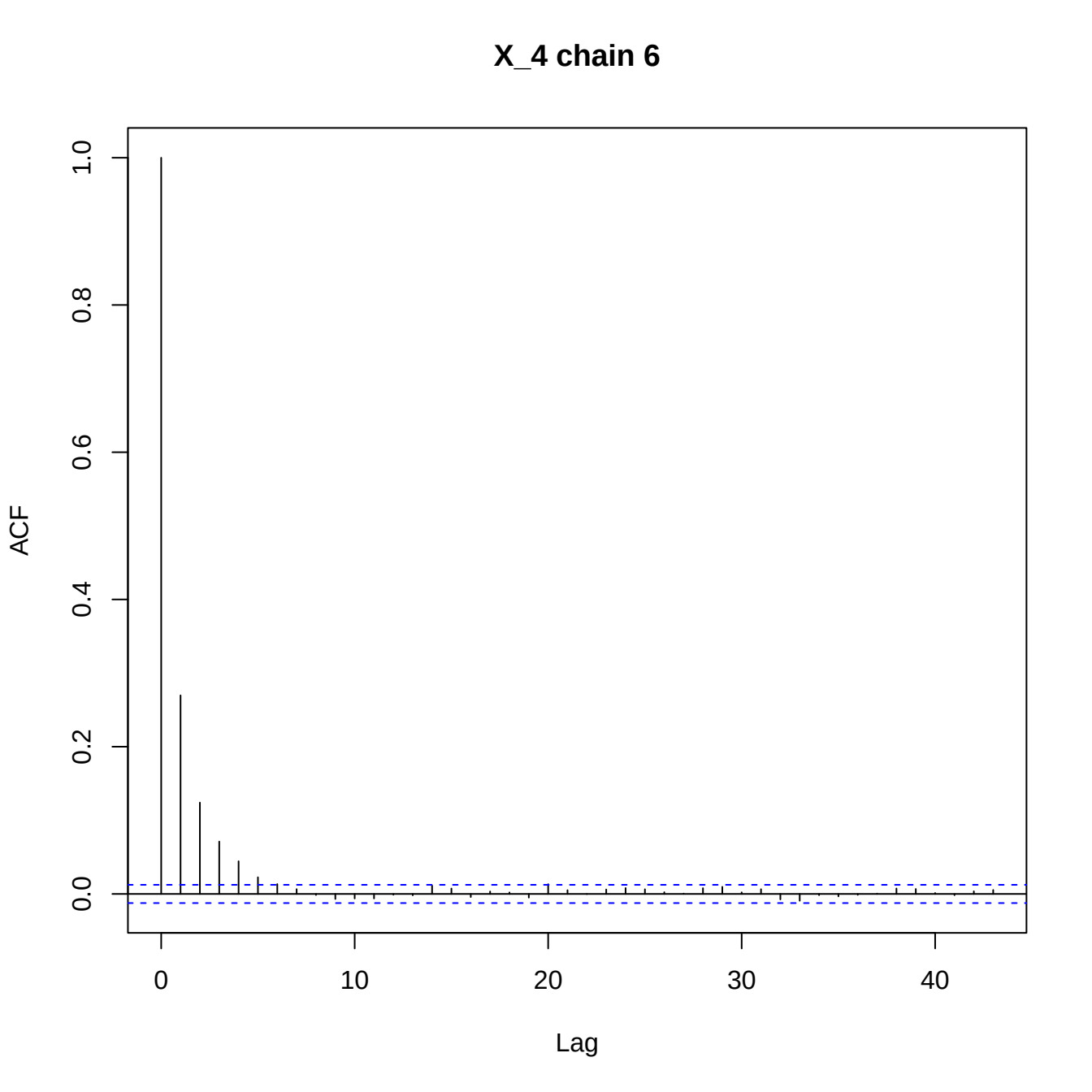

X_4 chain 1
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

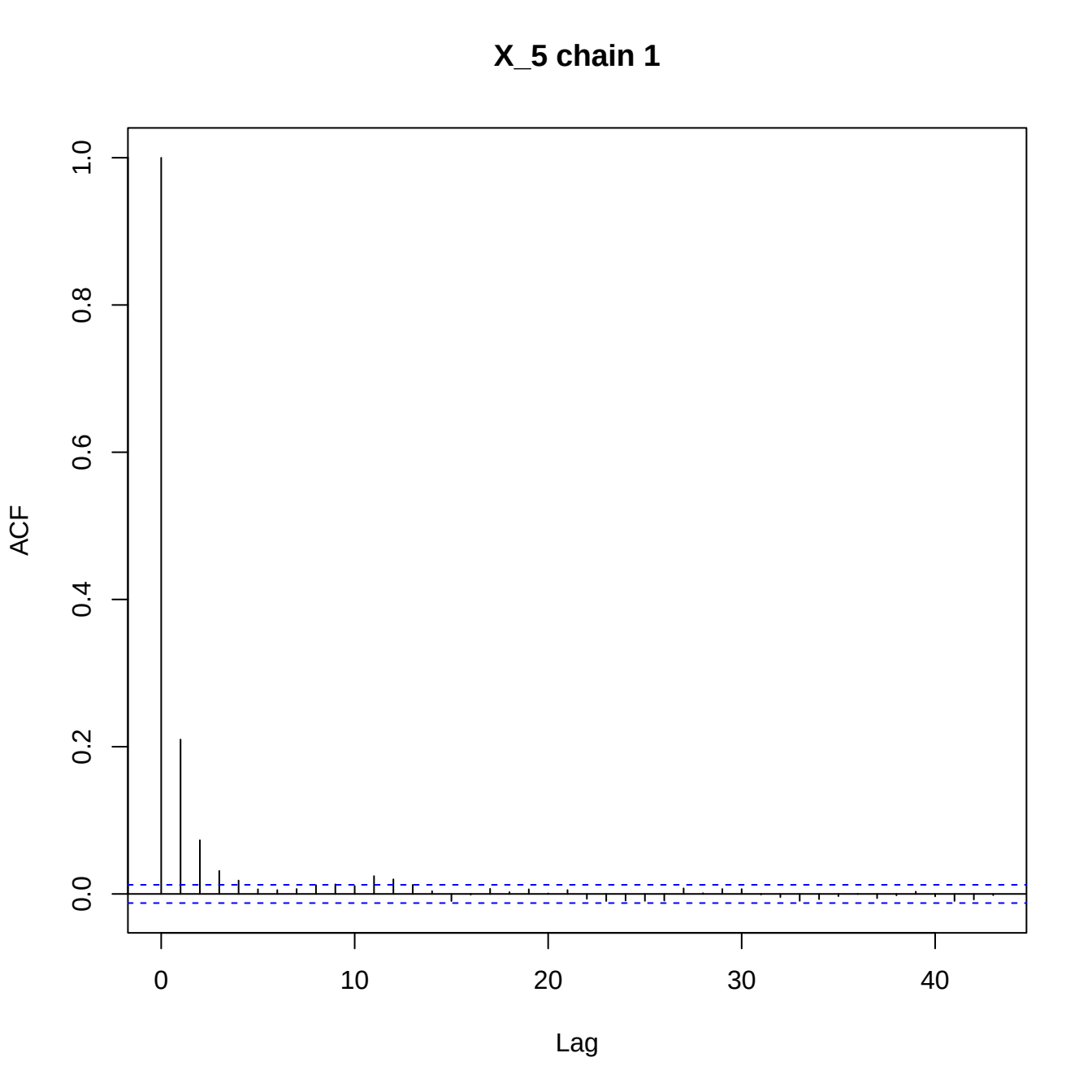

X_4 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

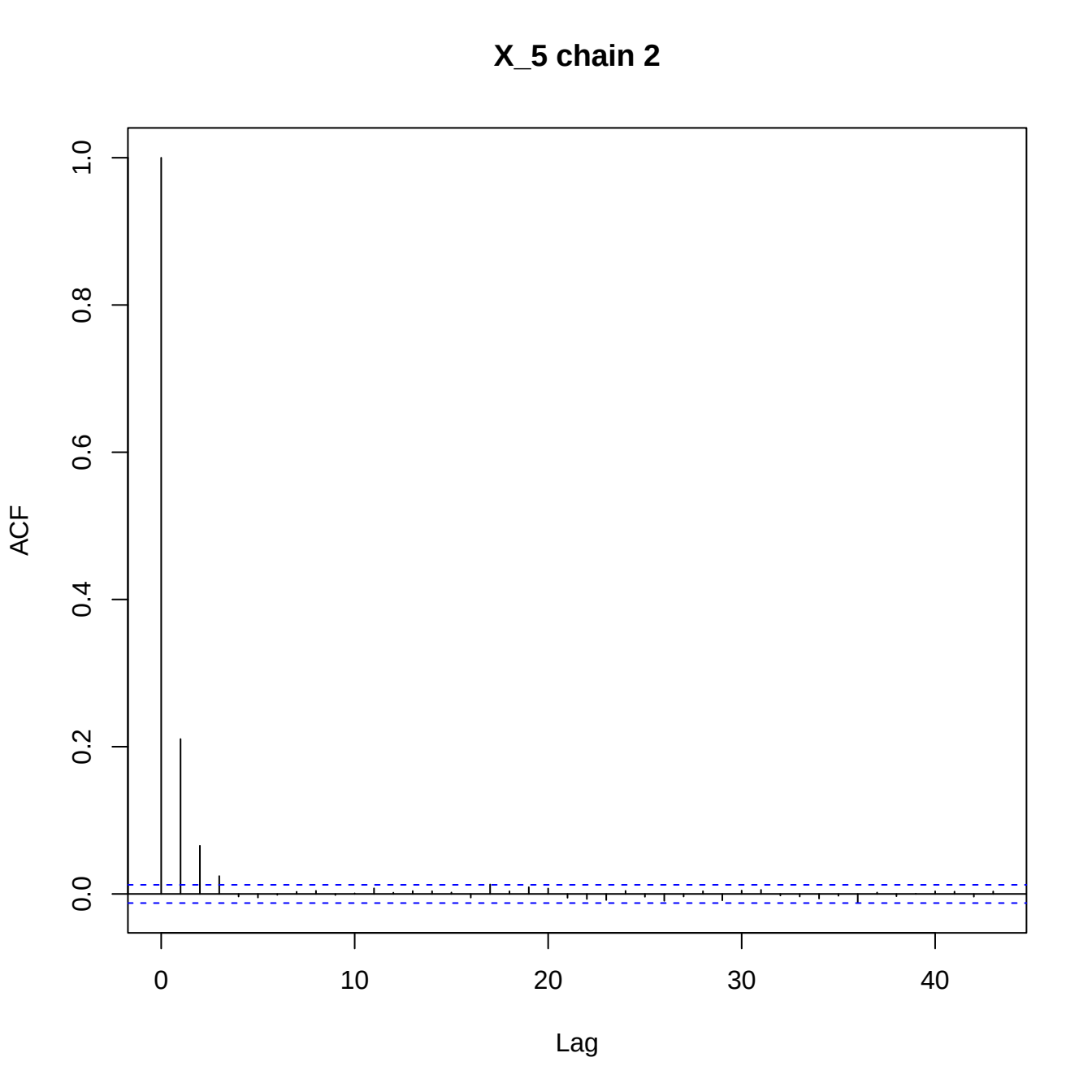

X_4 chain 3
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag

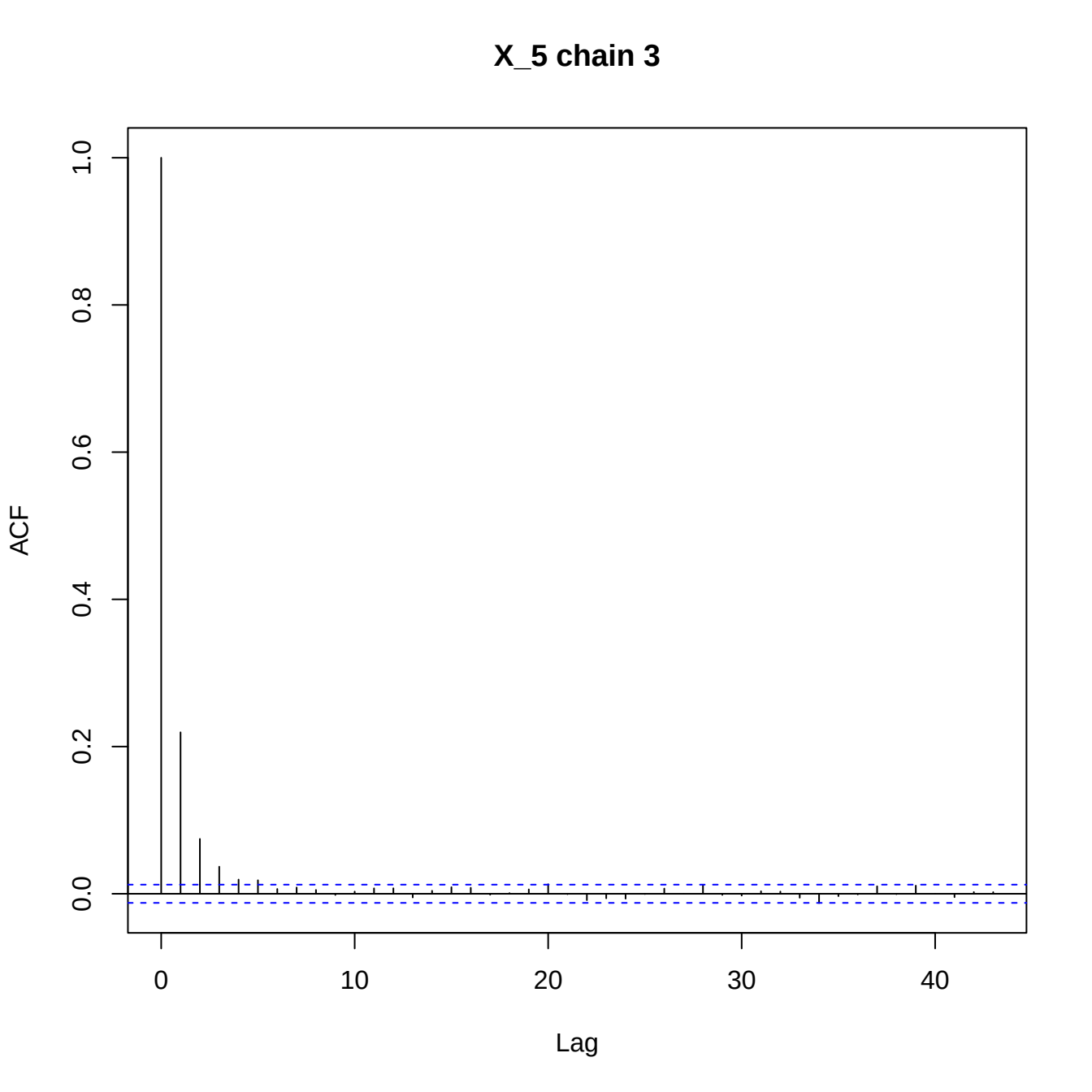

X_4 chain 4
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_4 chain 5
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_4 chain 6
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_5 chain 1
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_5 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_5 chain 3
ACF
1.0
0.8
0.6
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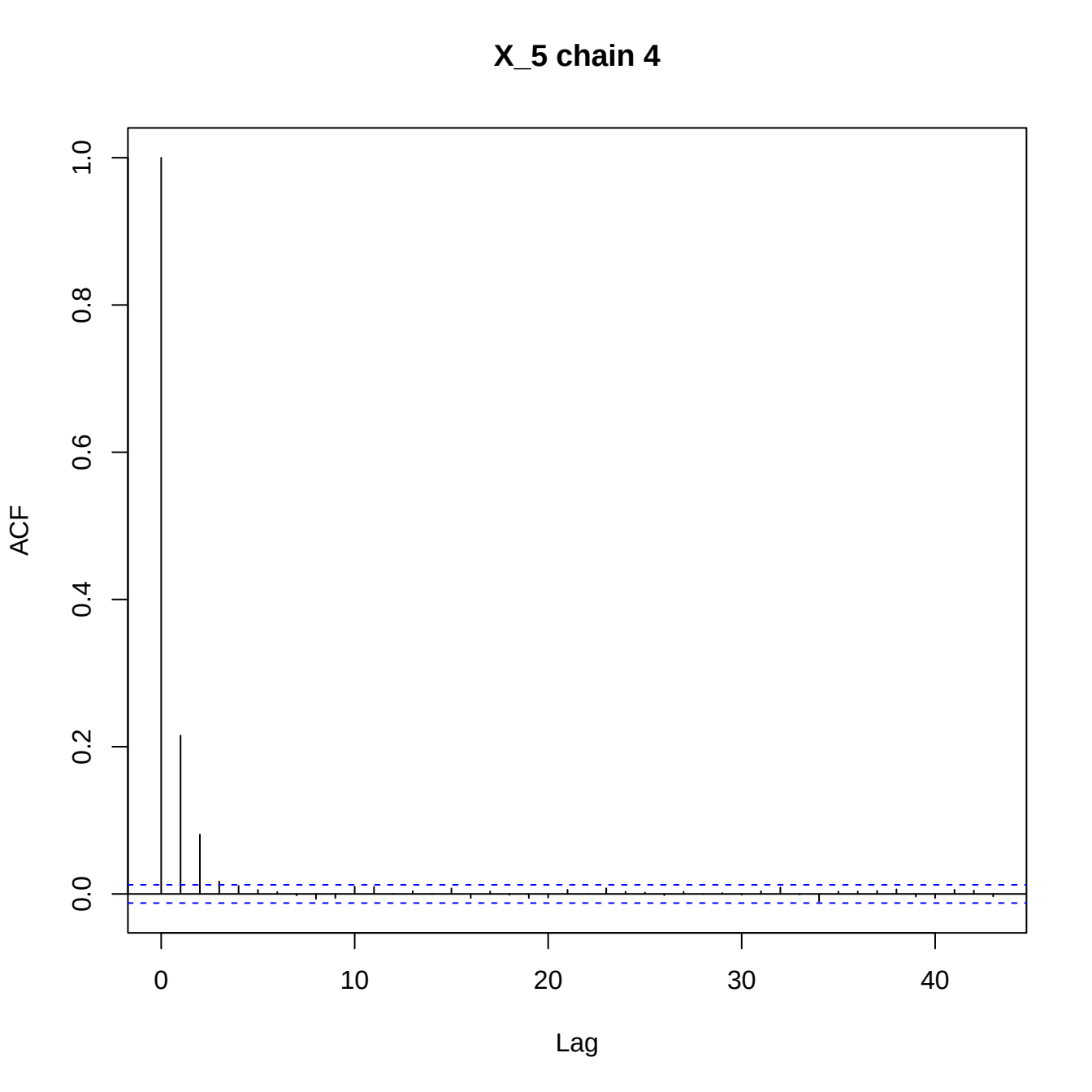
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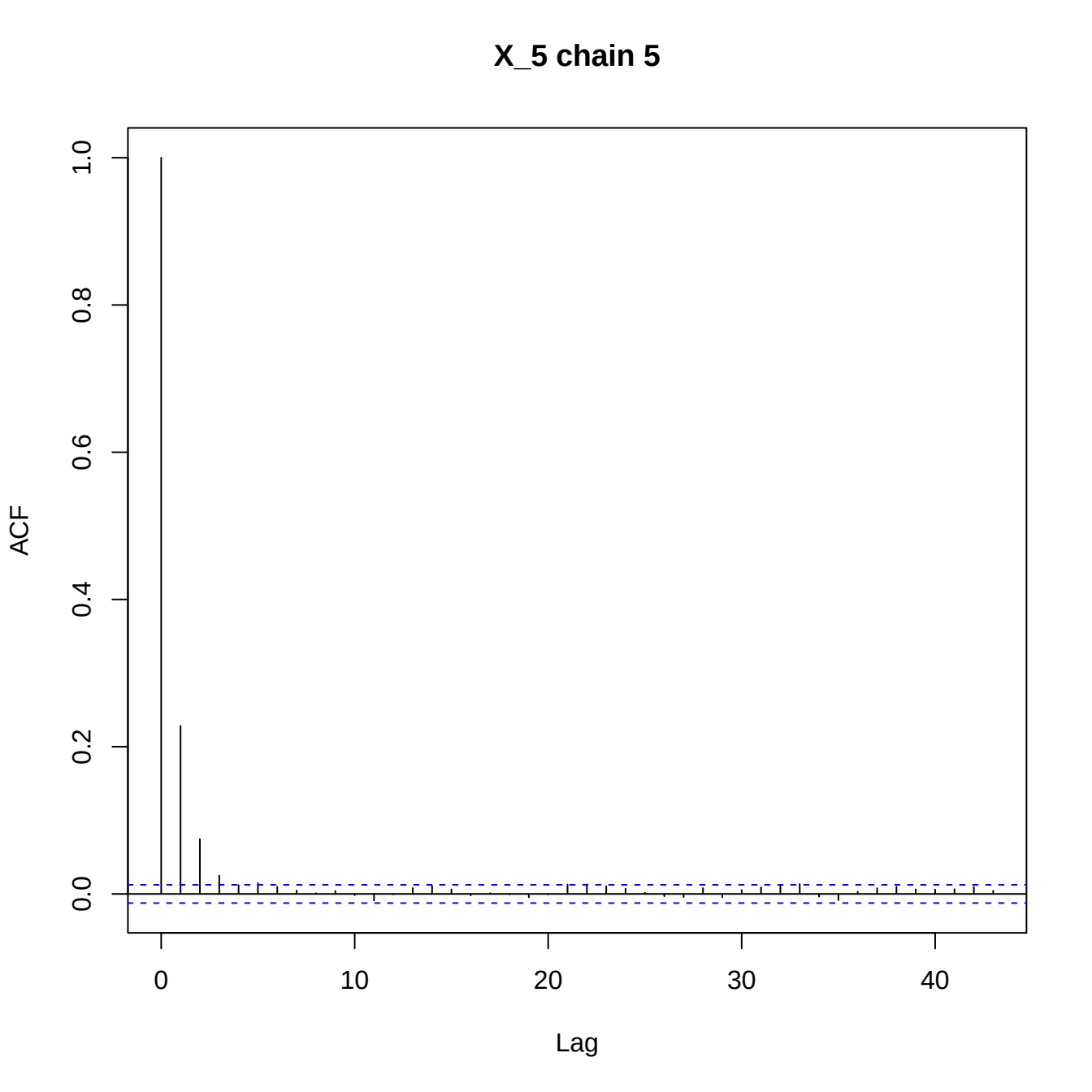
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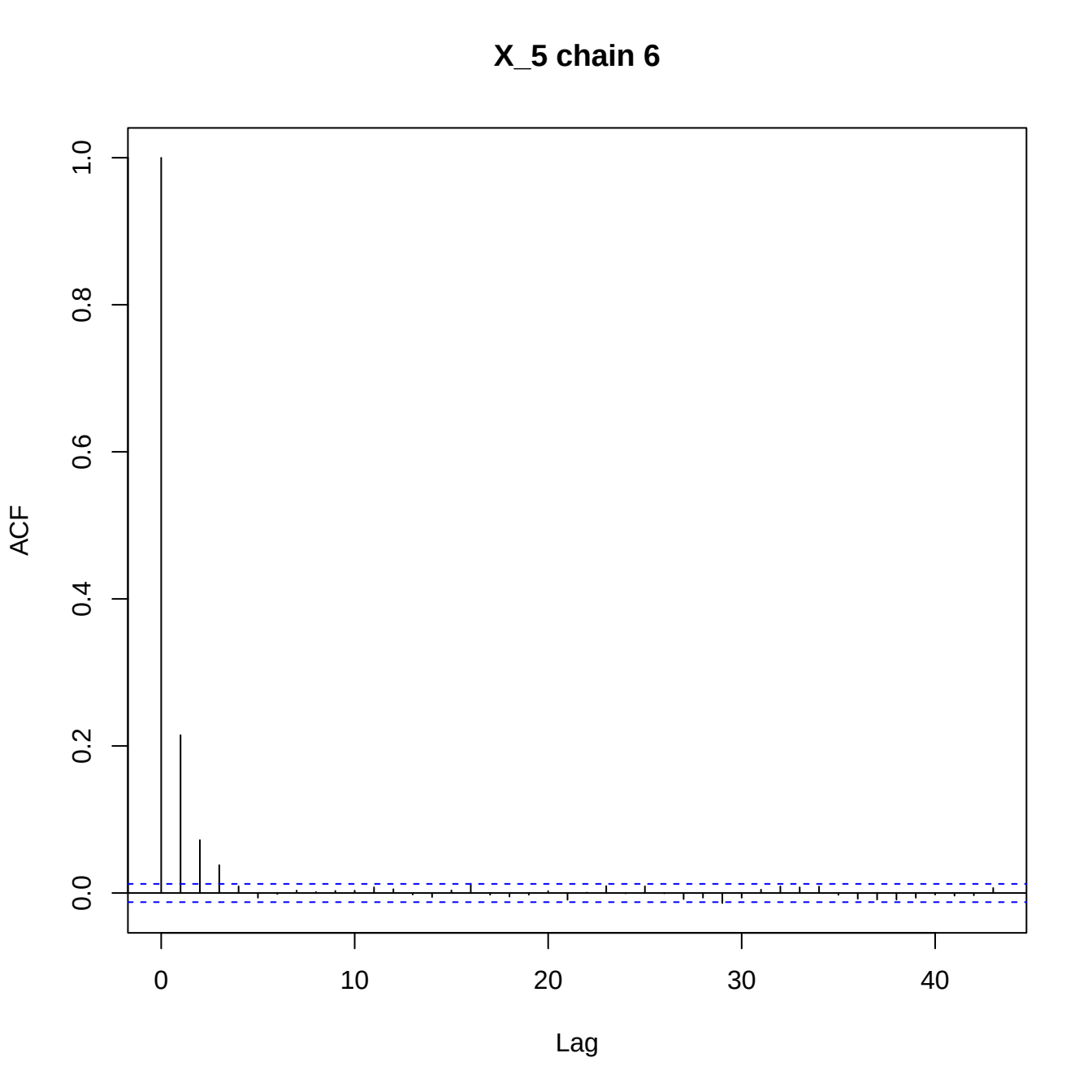
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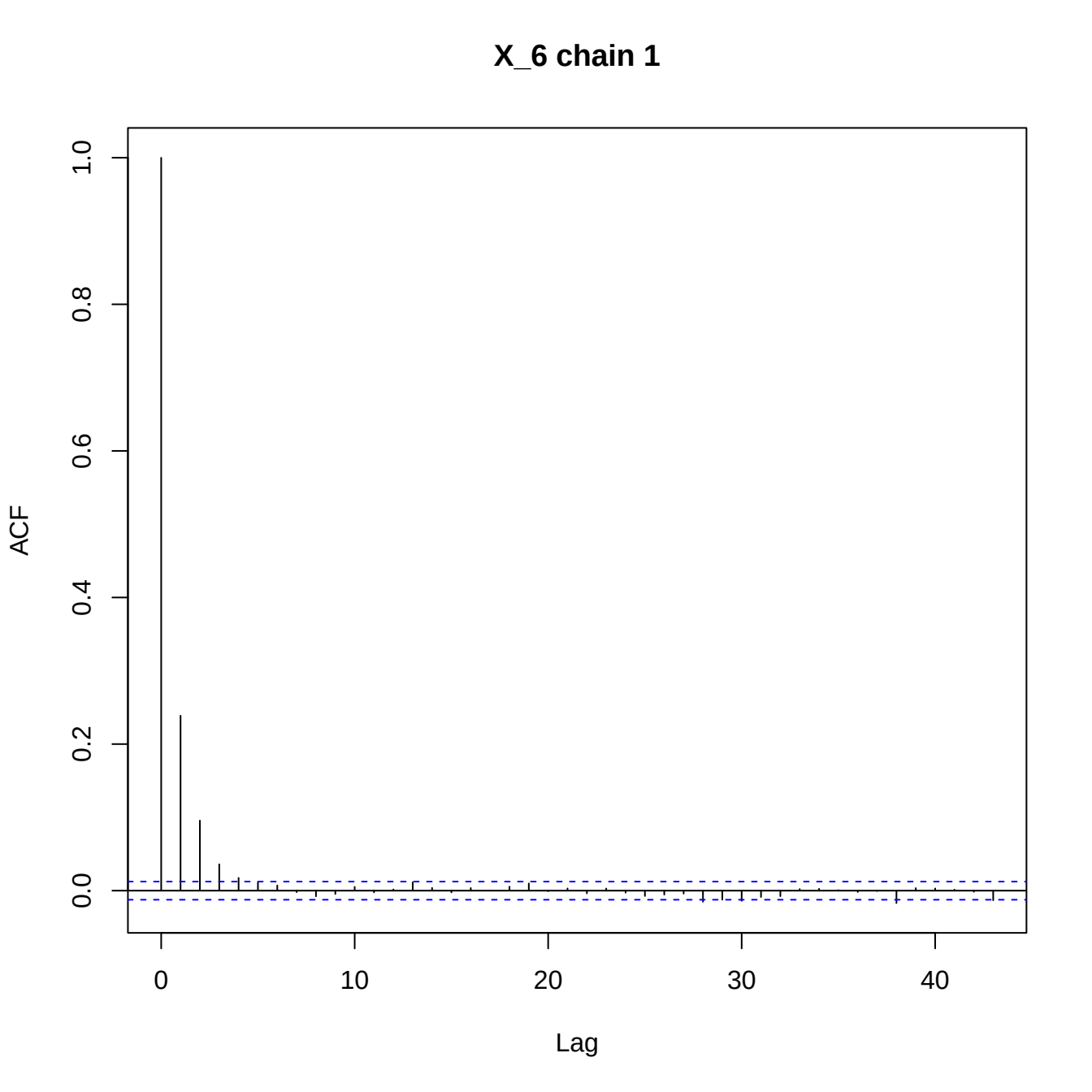
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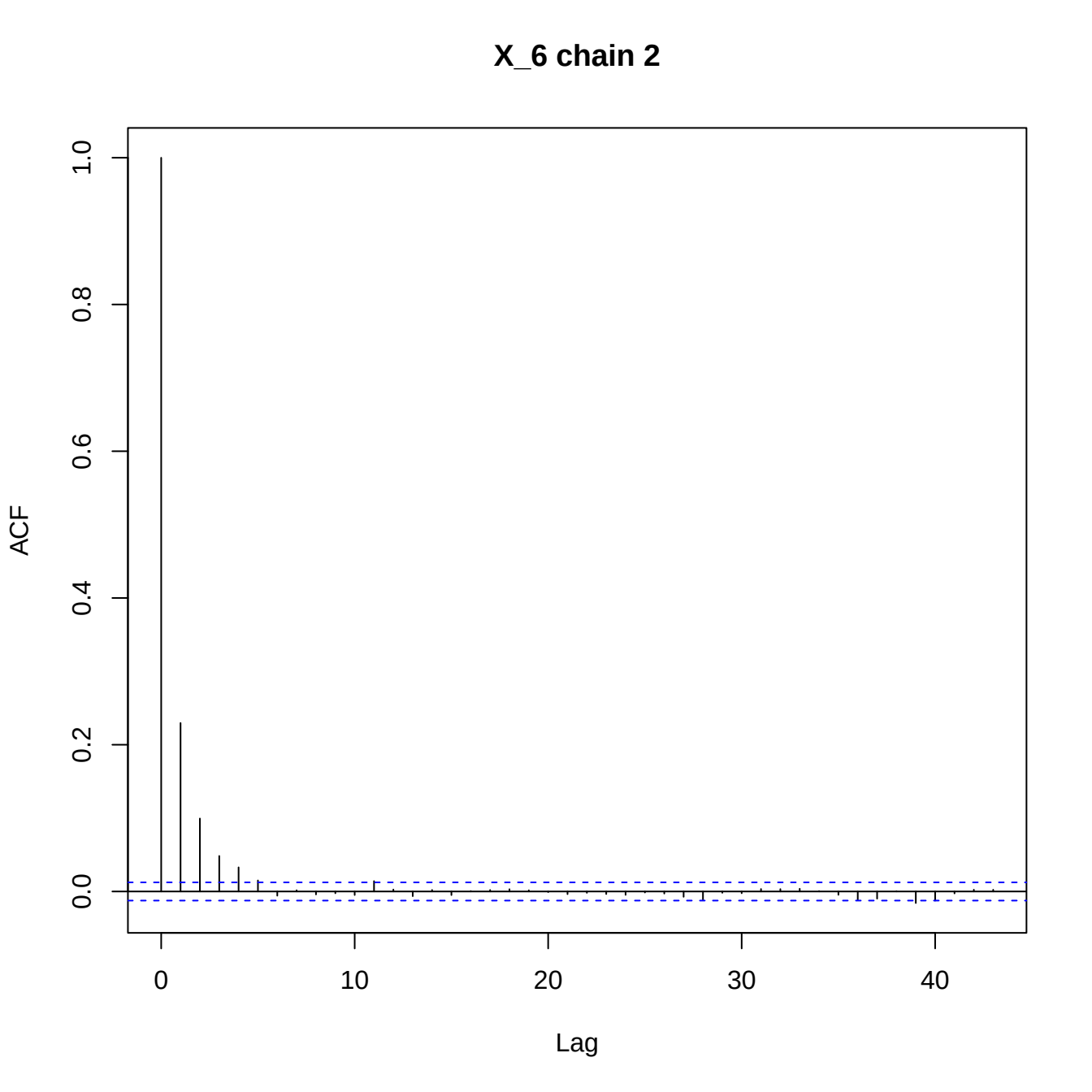
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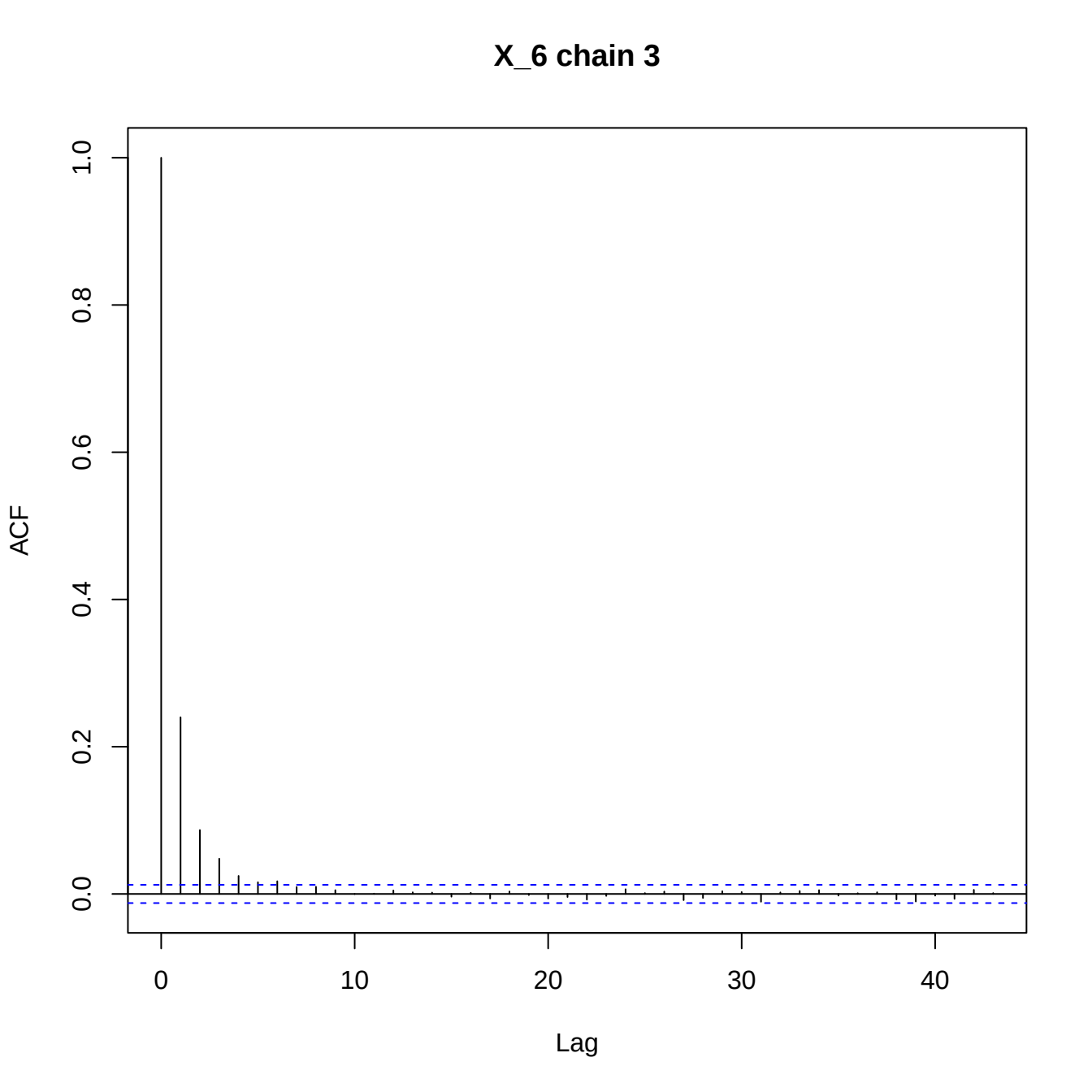
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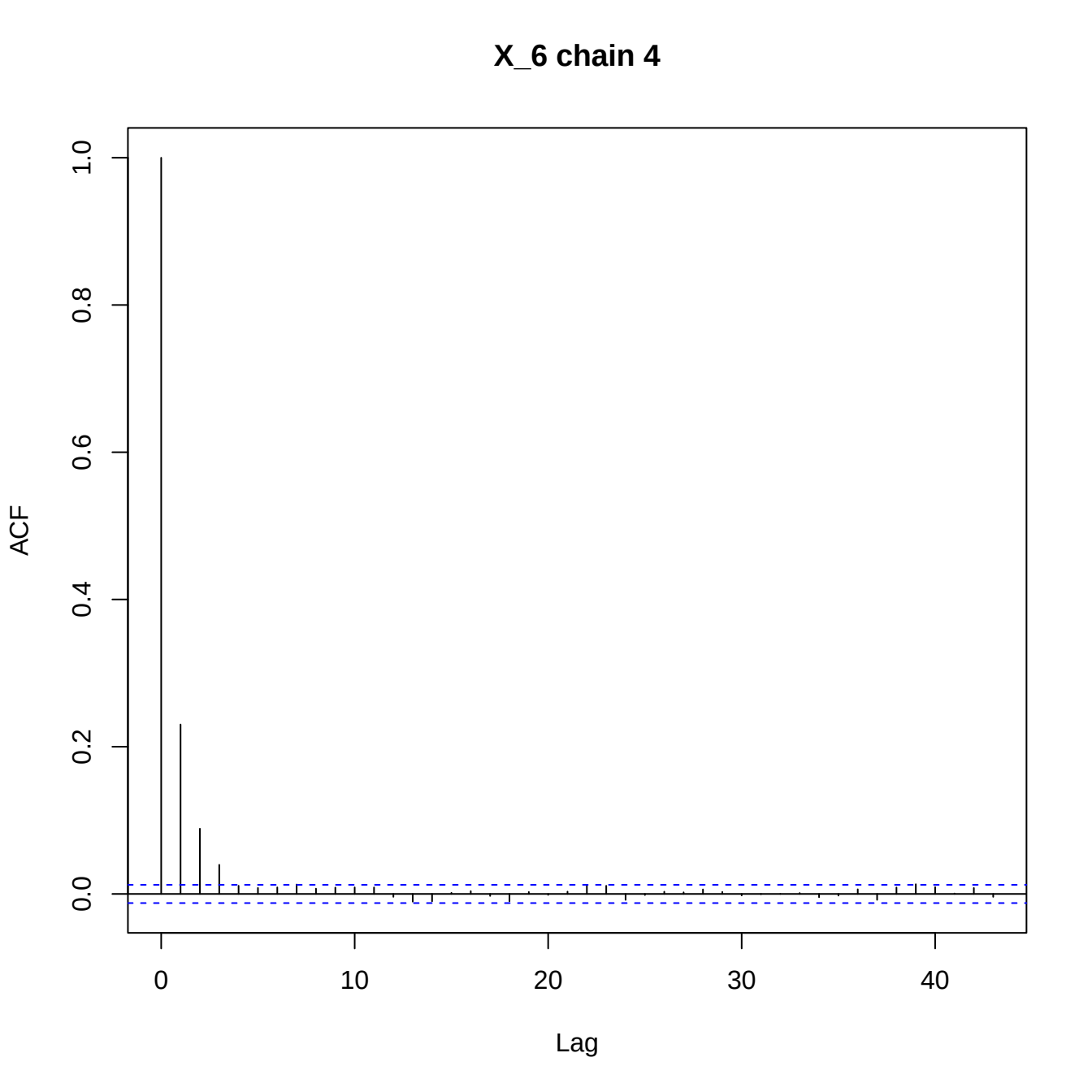
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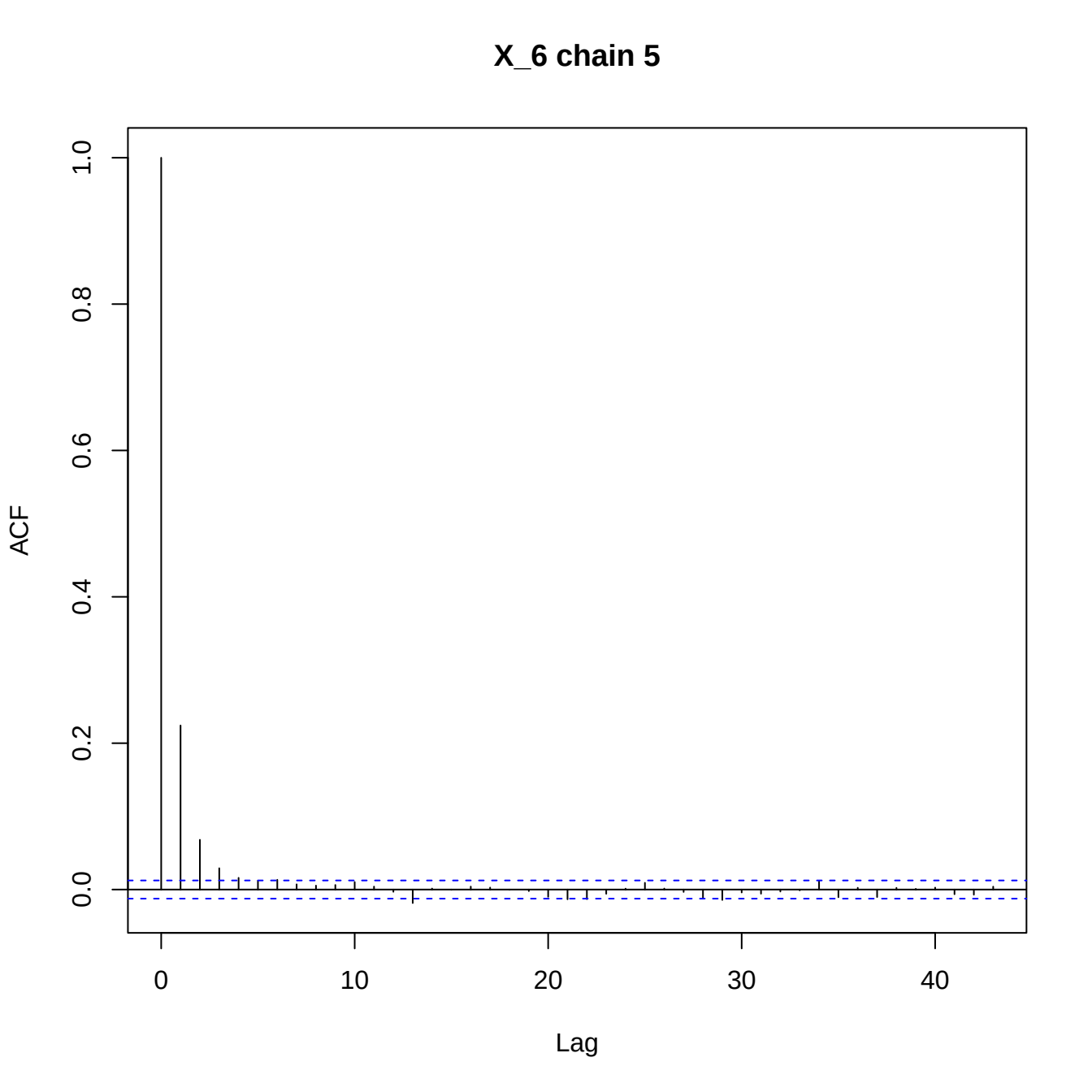
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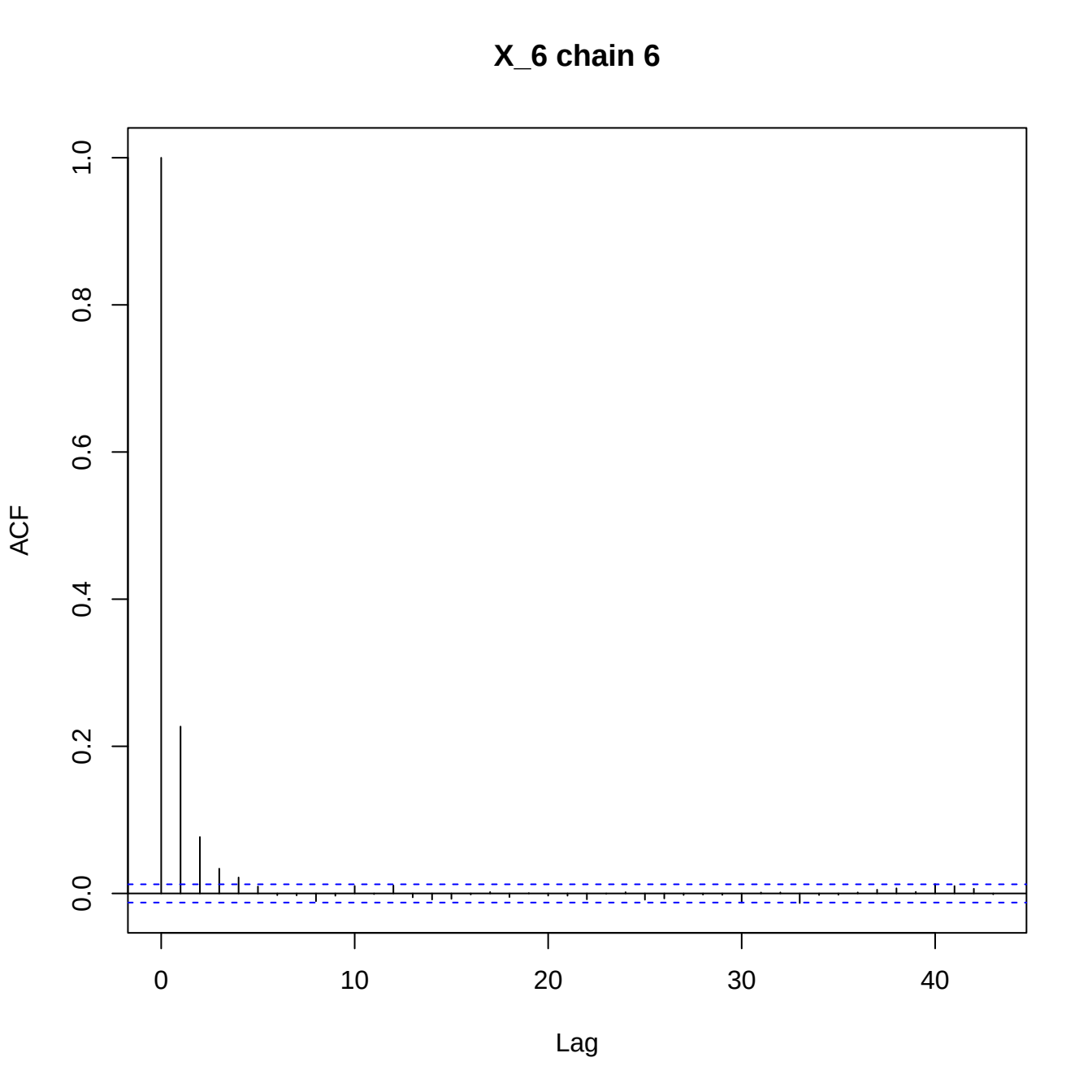
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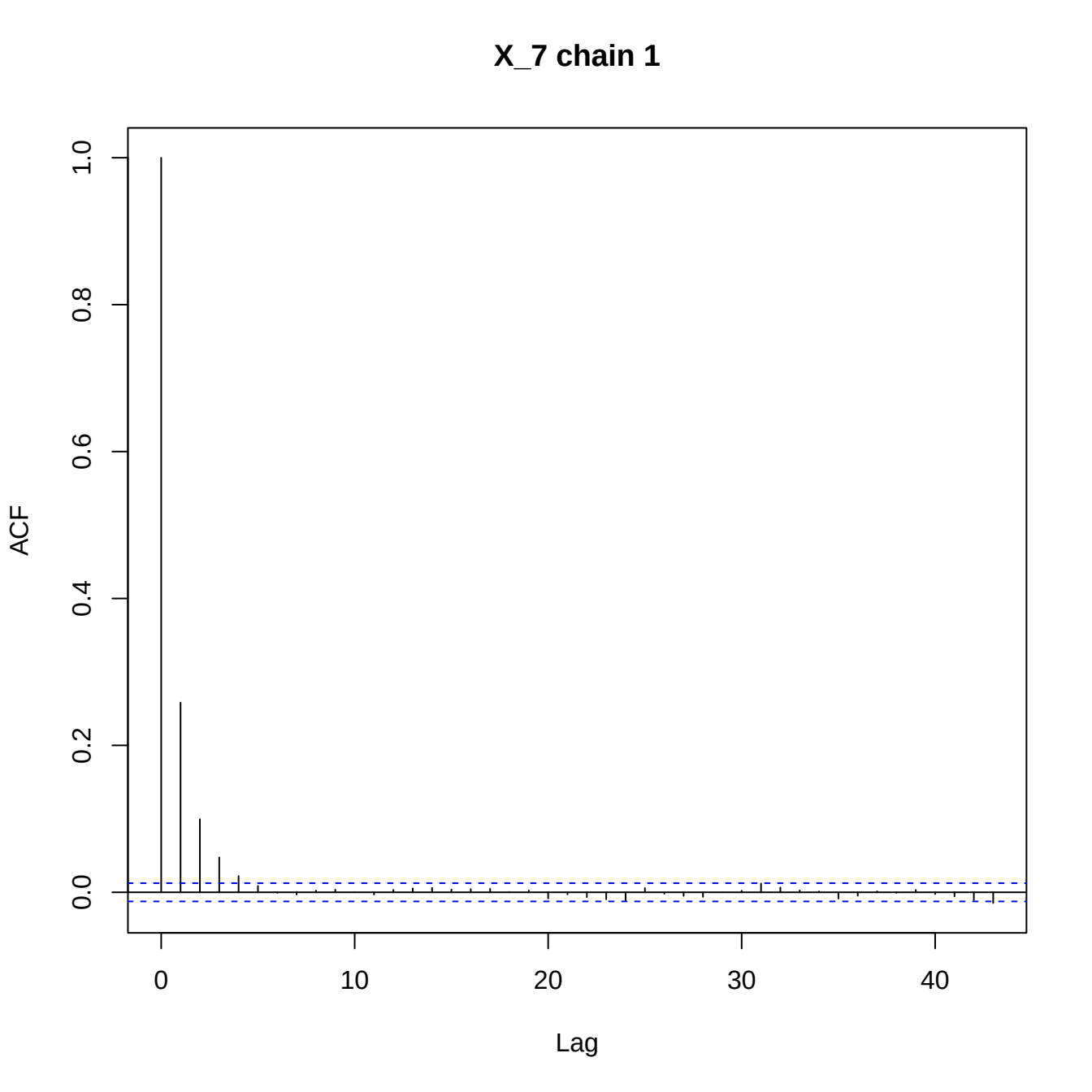
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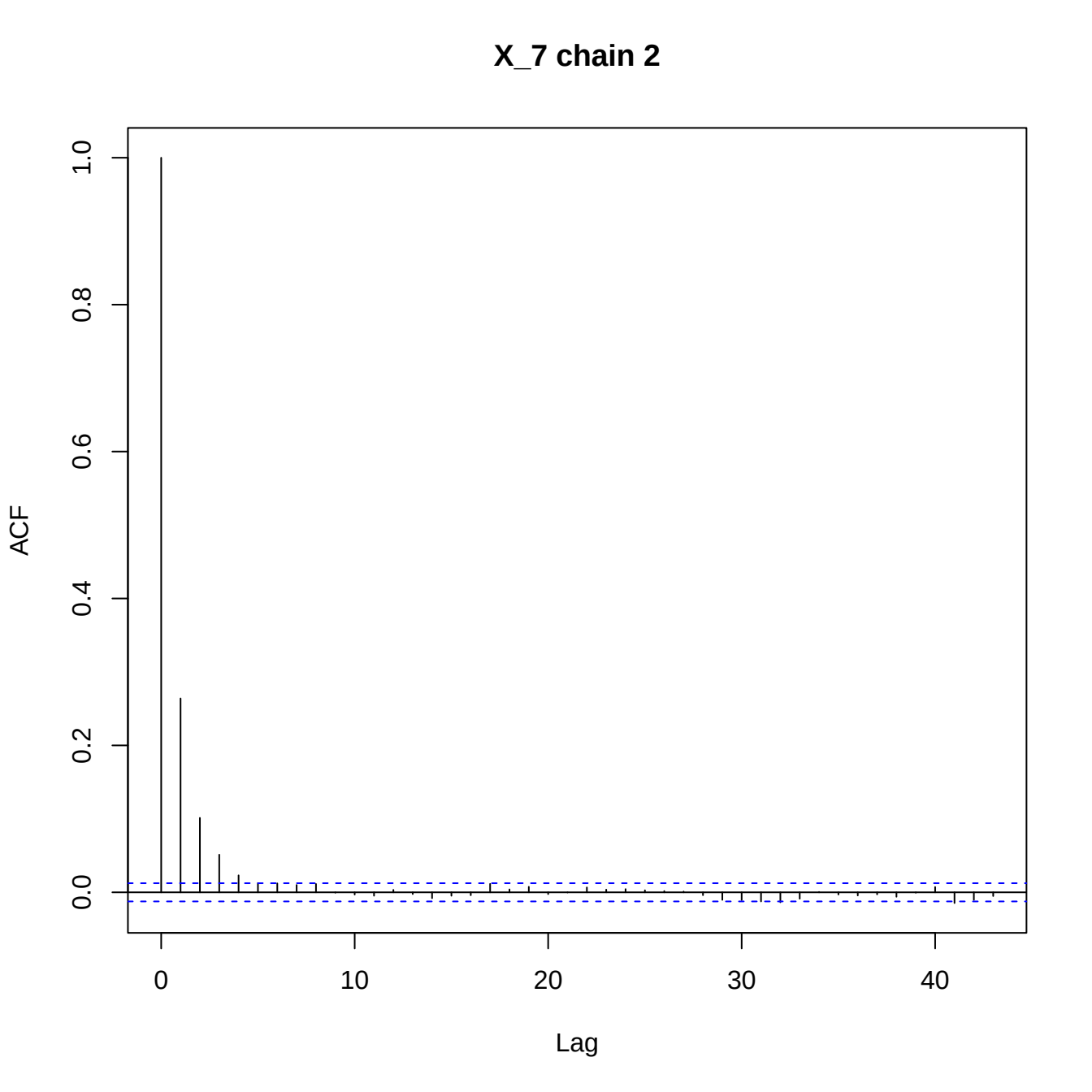
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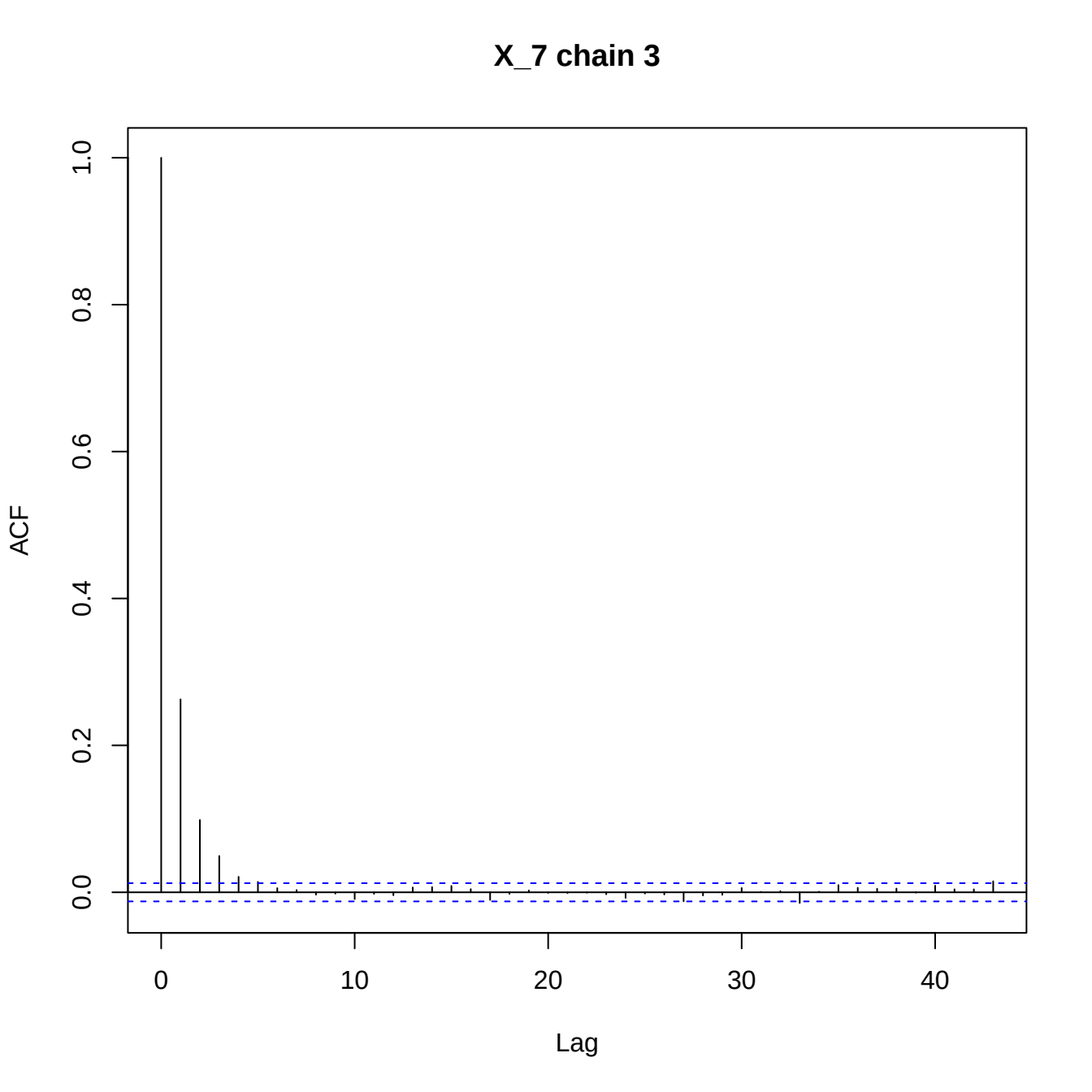
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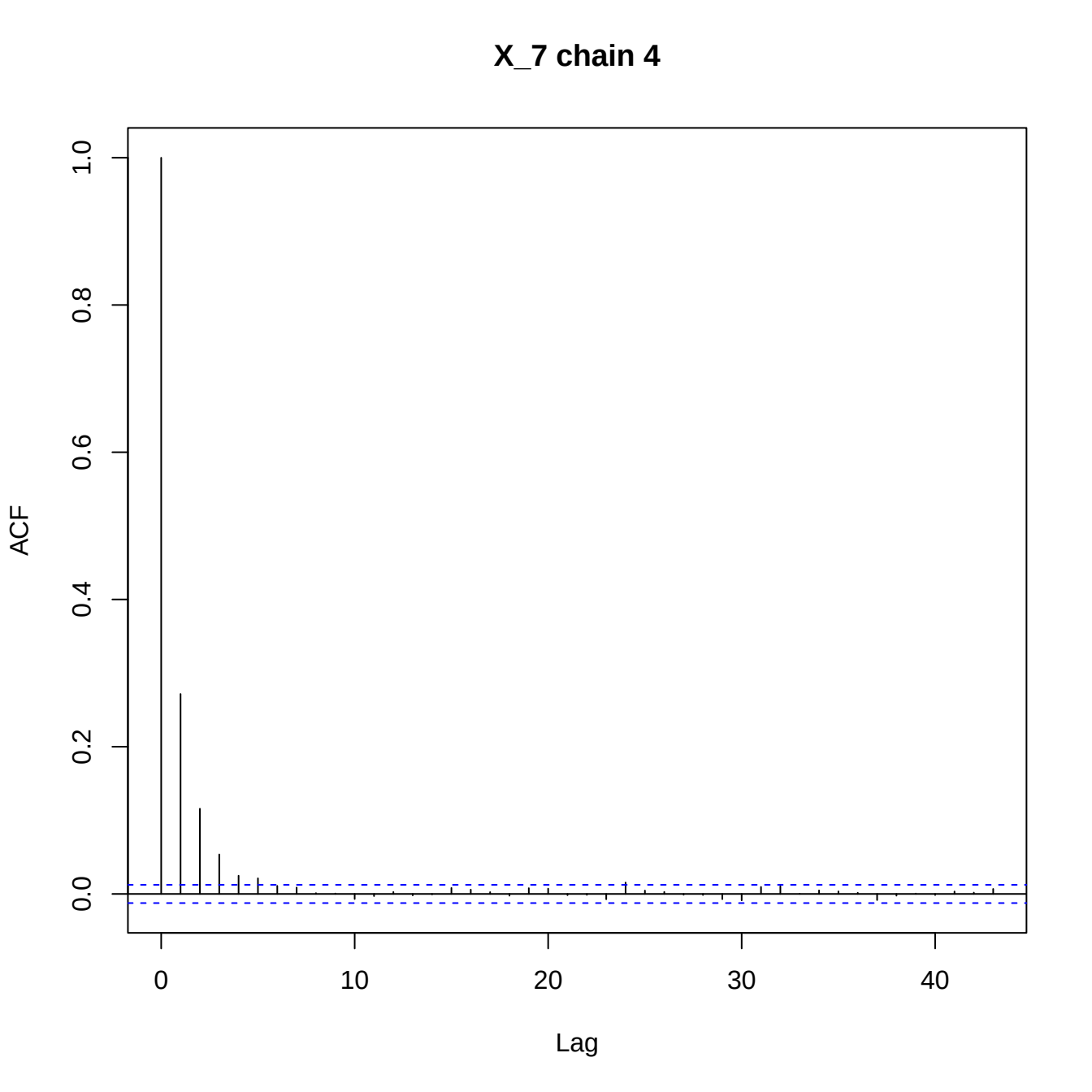
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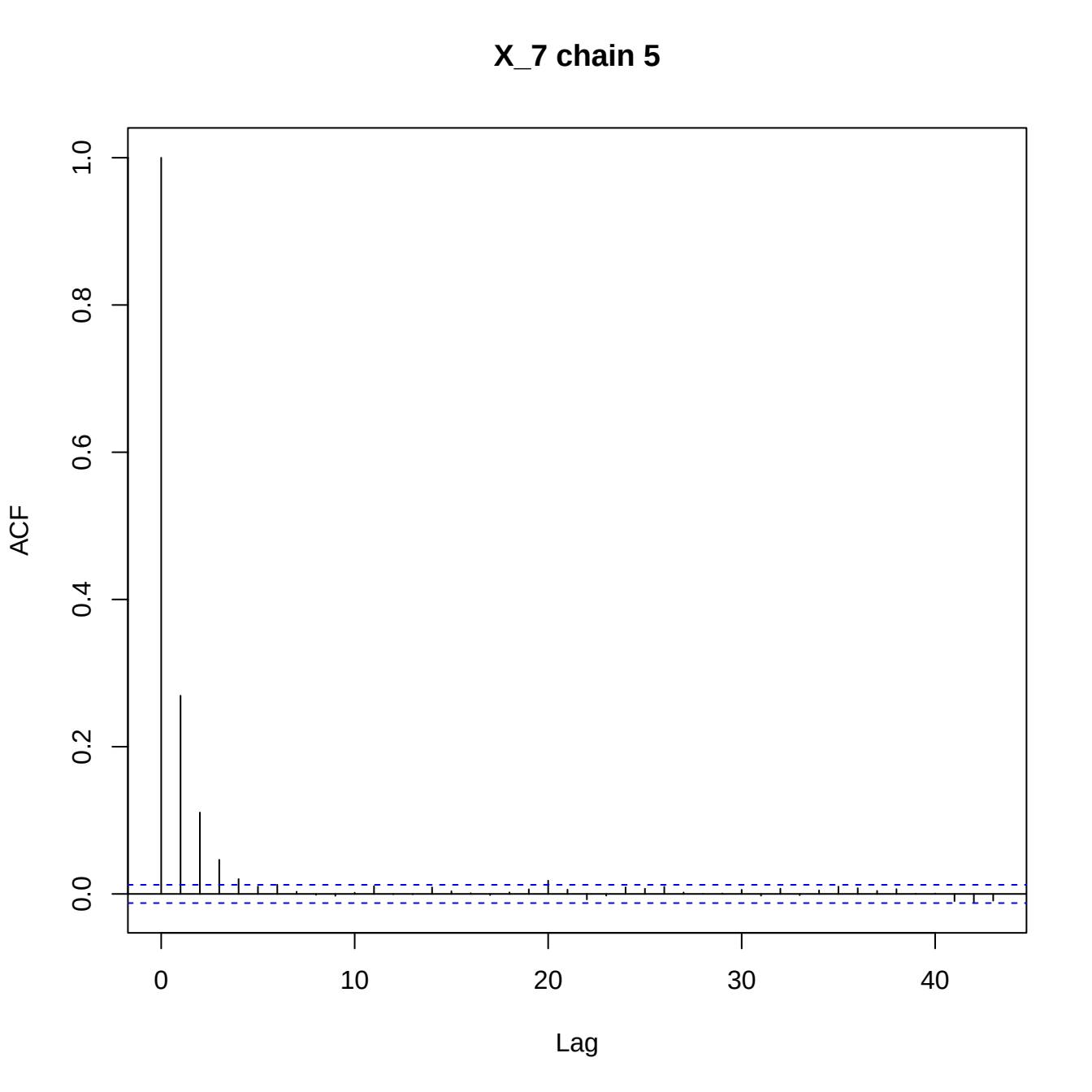
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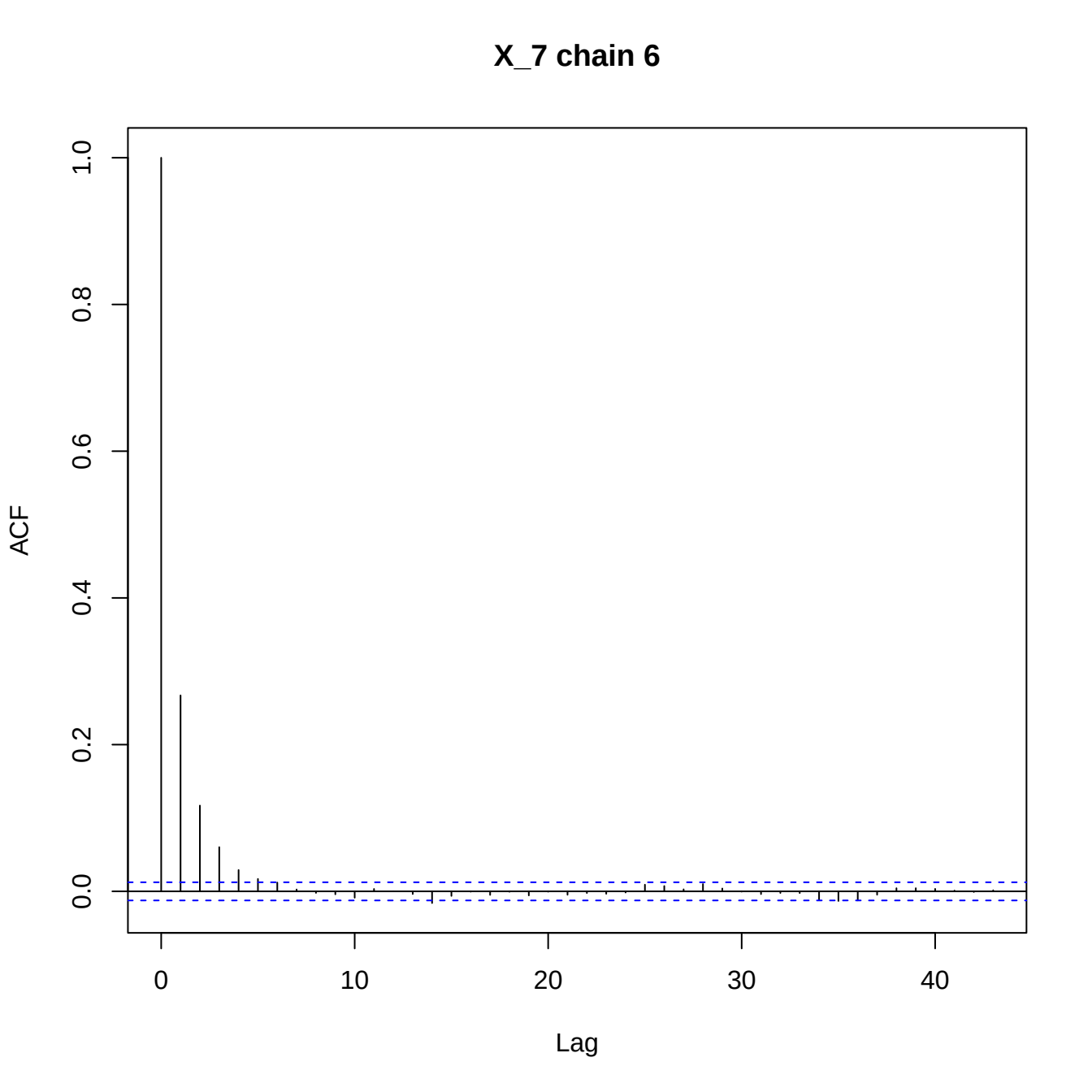
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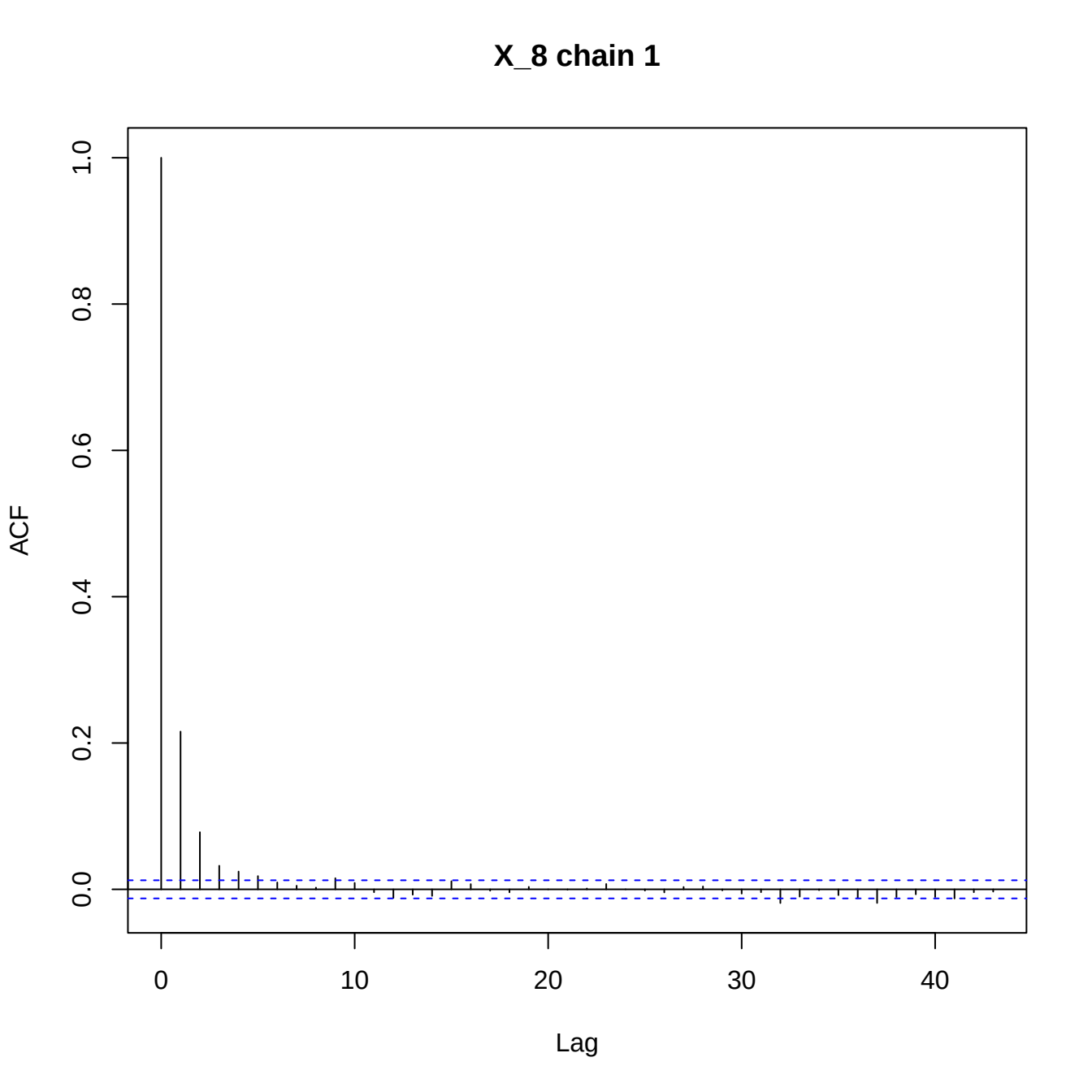
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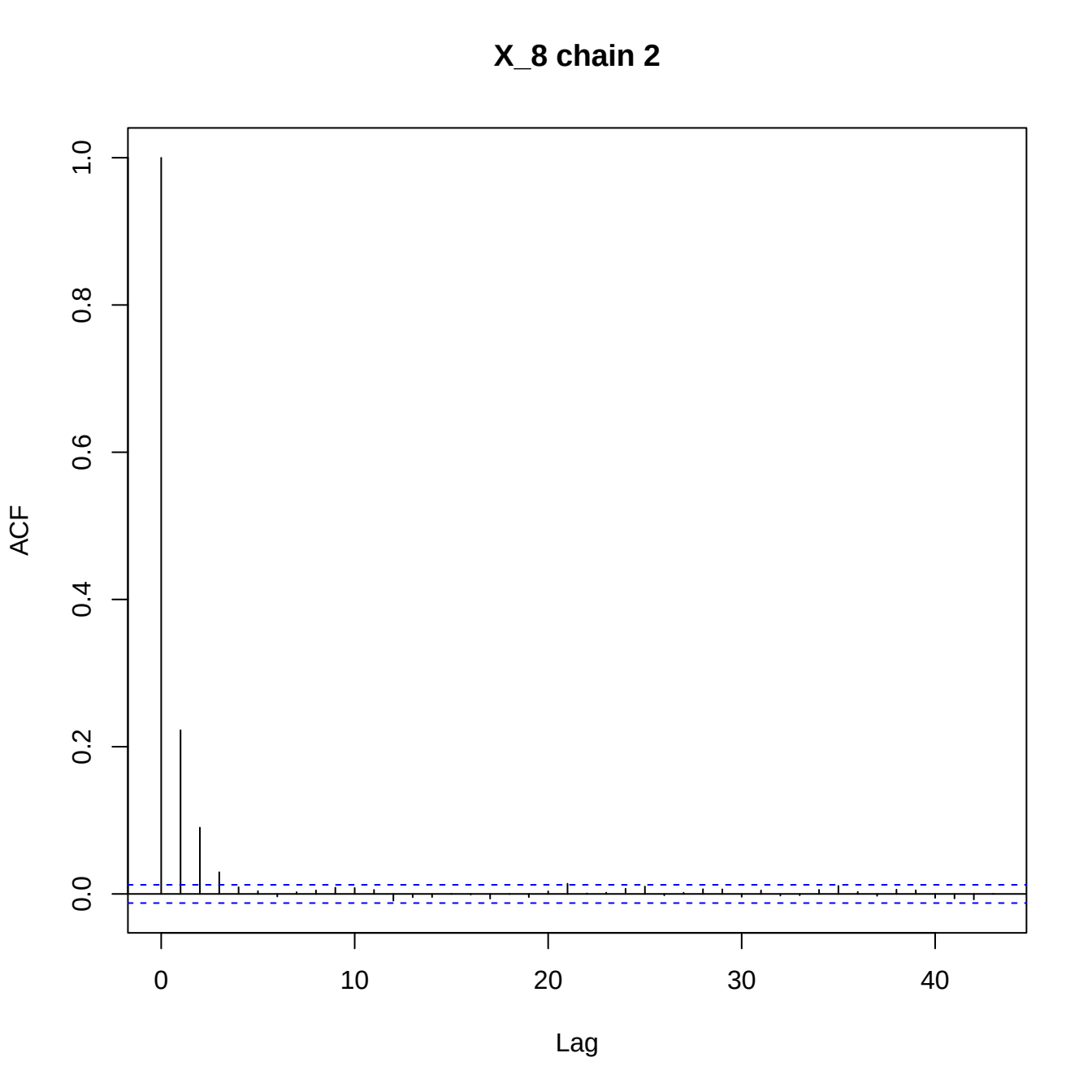
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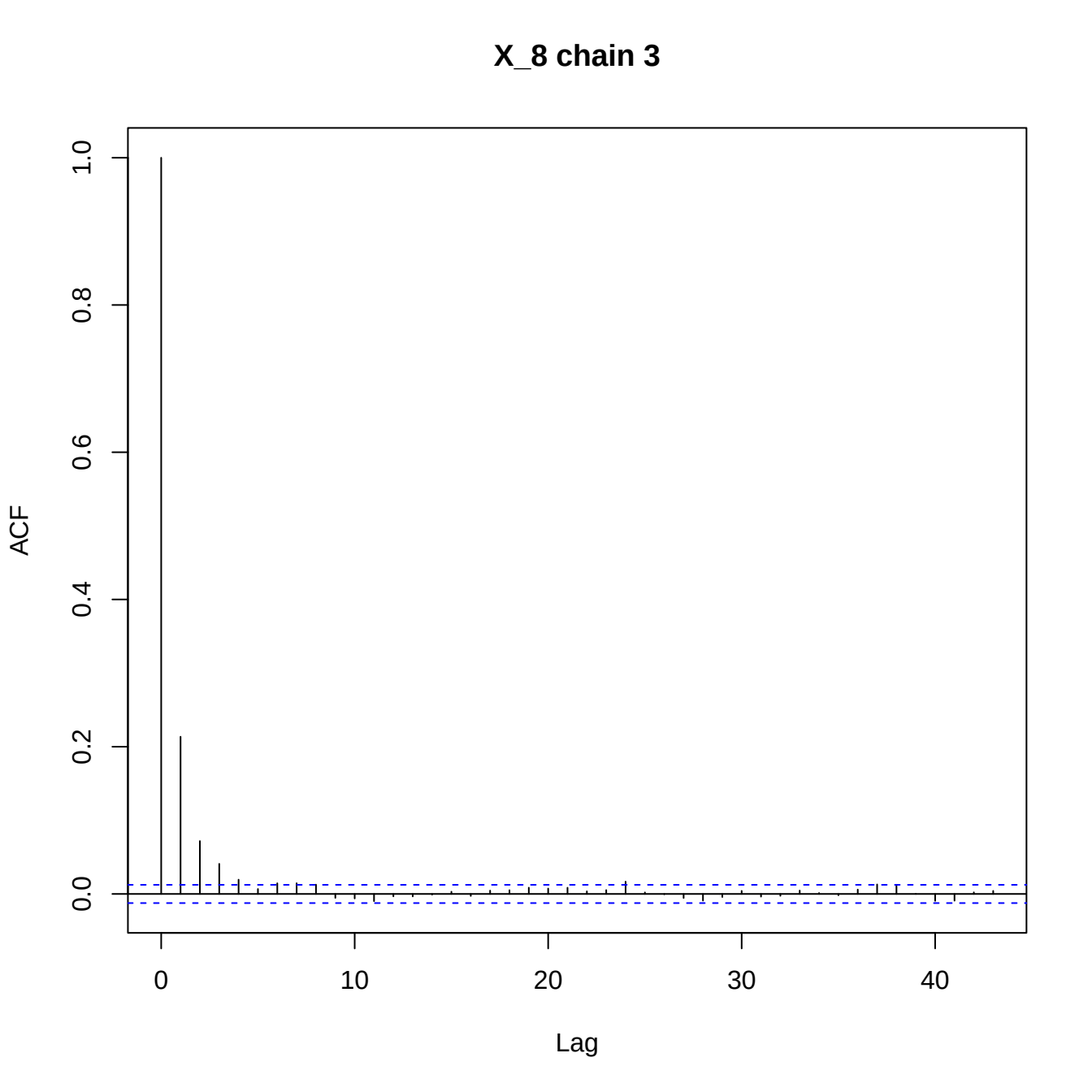
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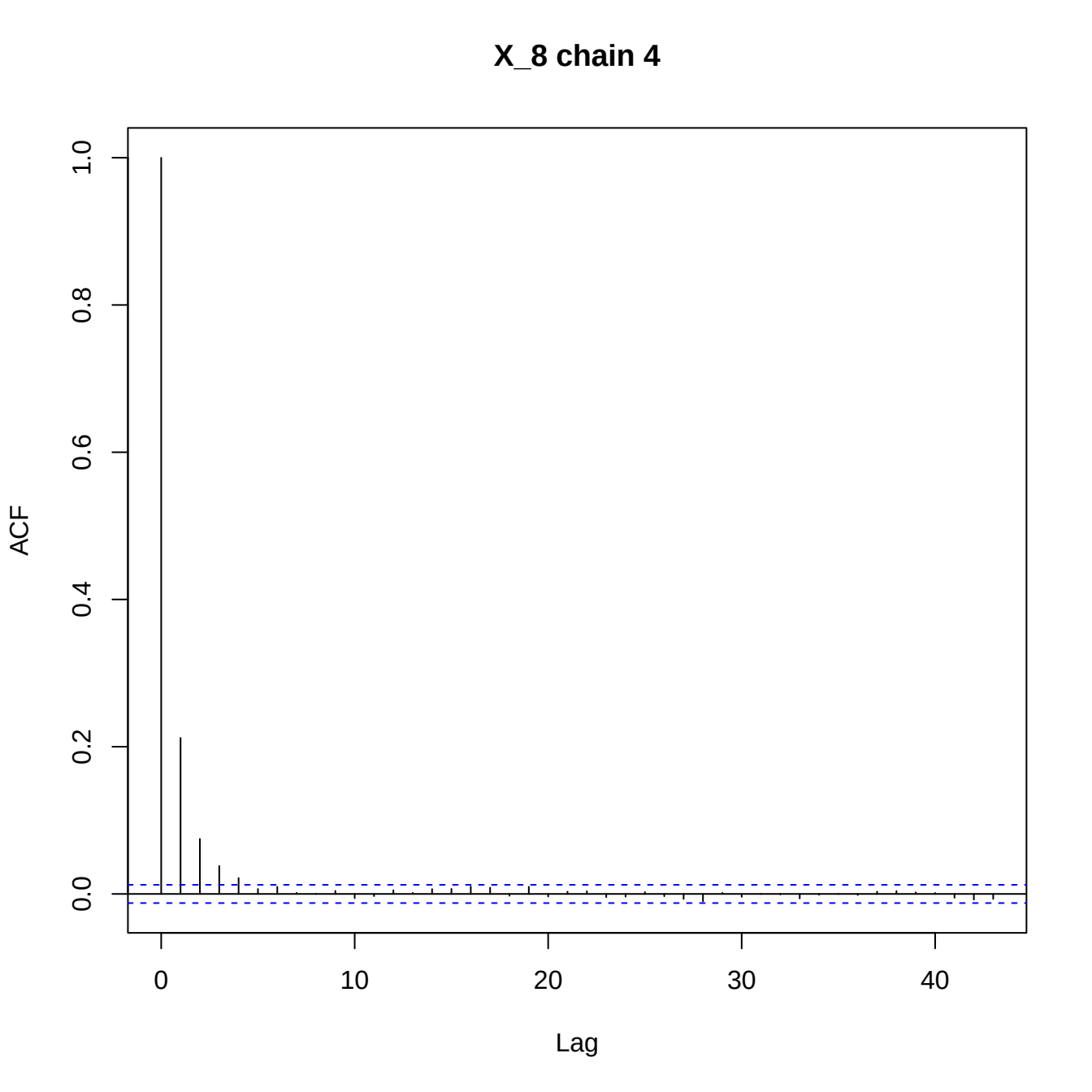
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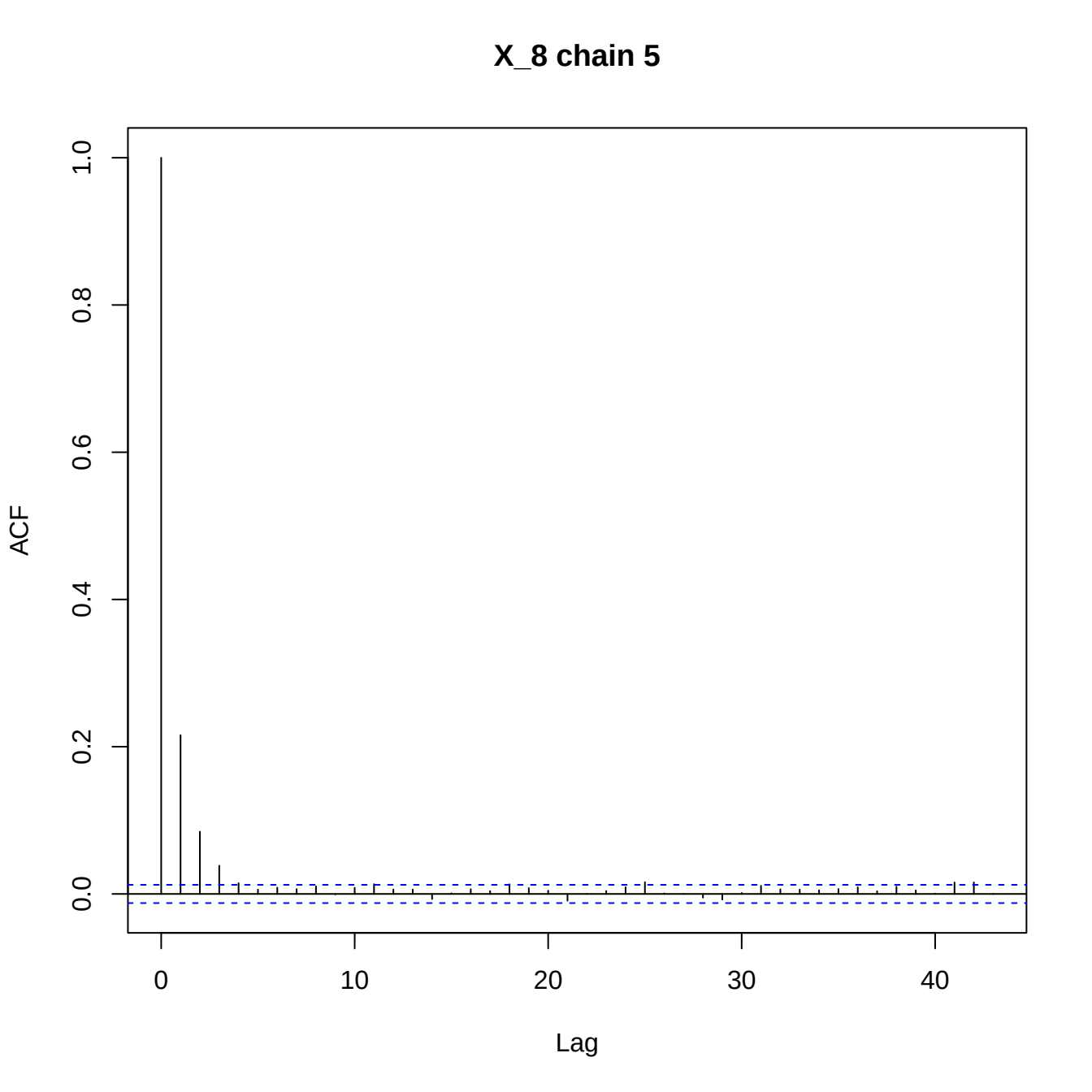
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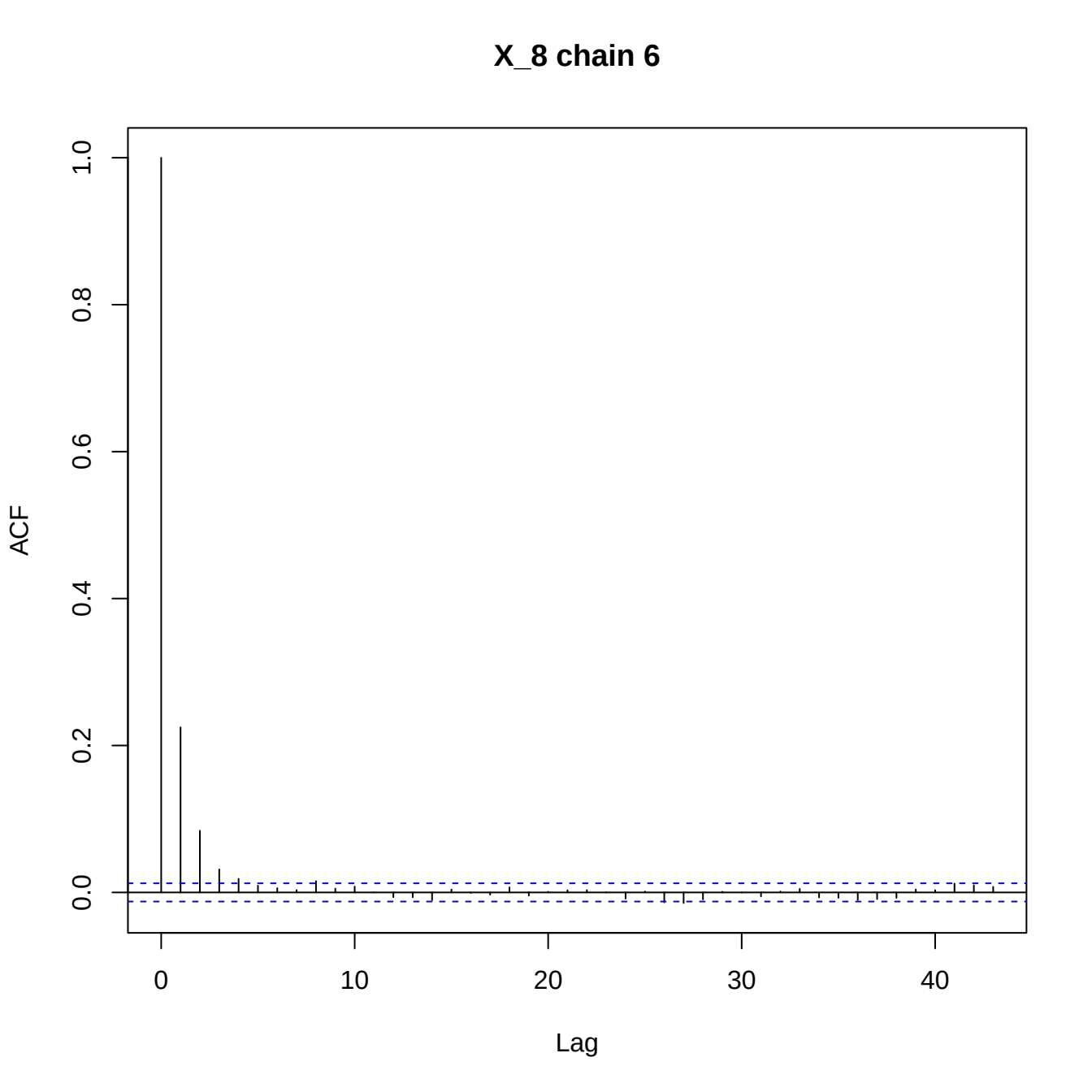
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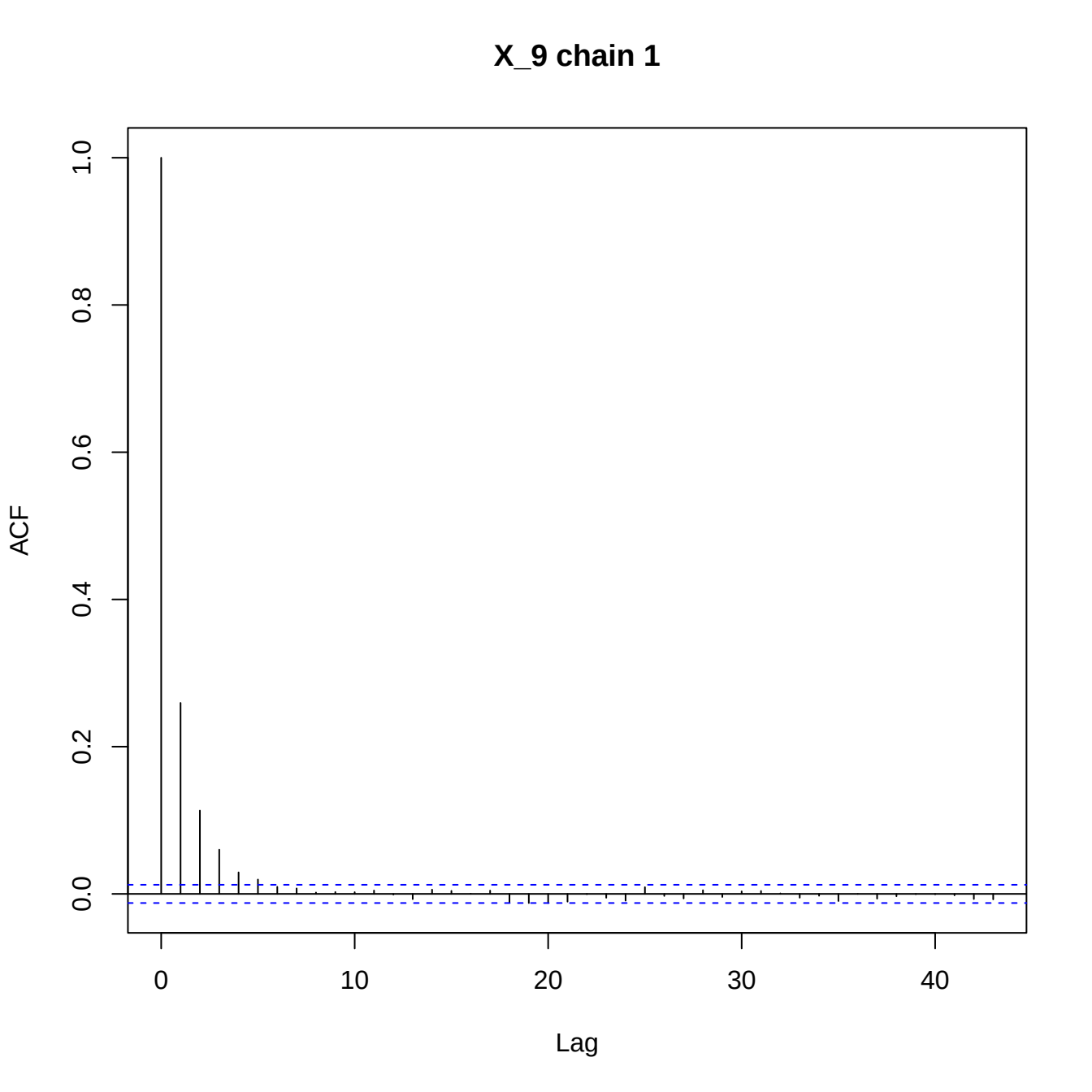
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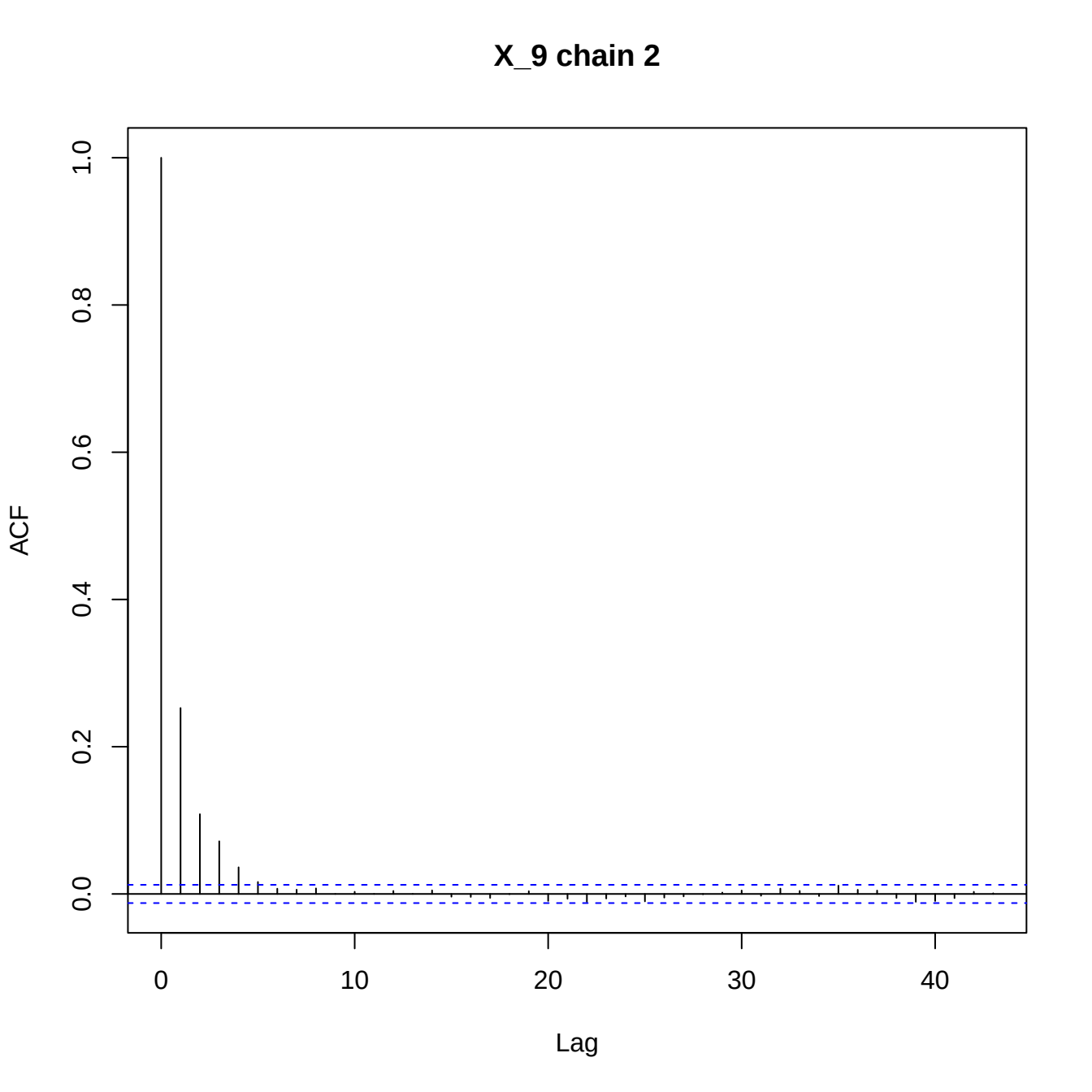
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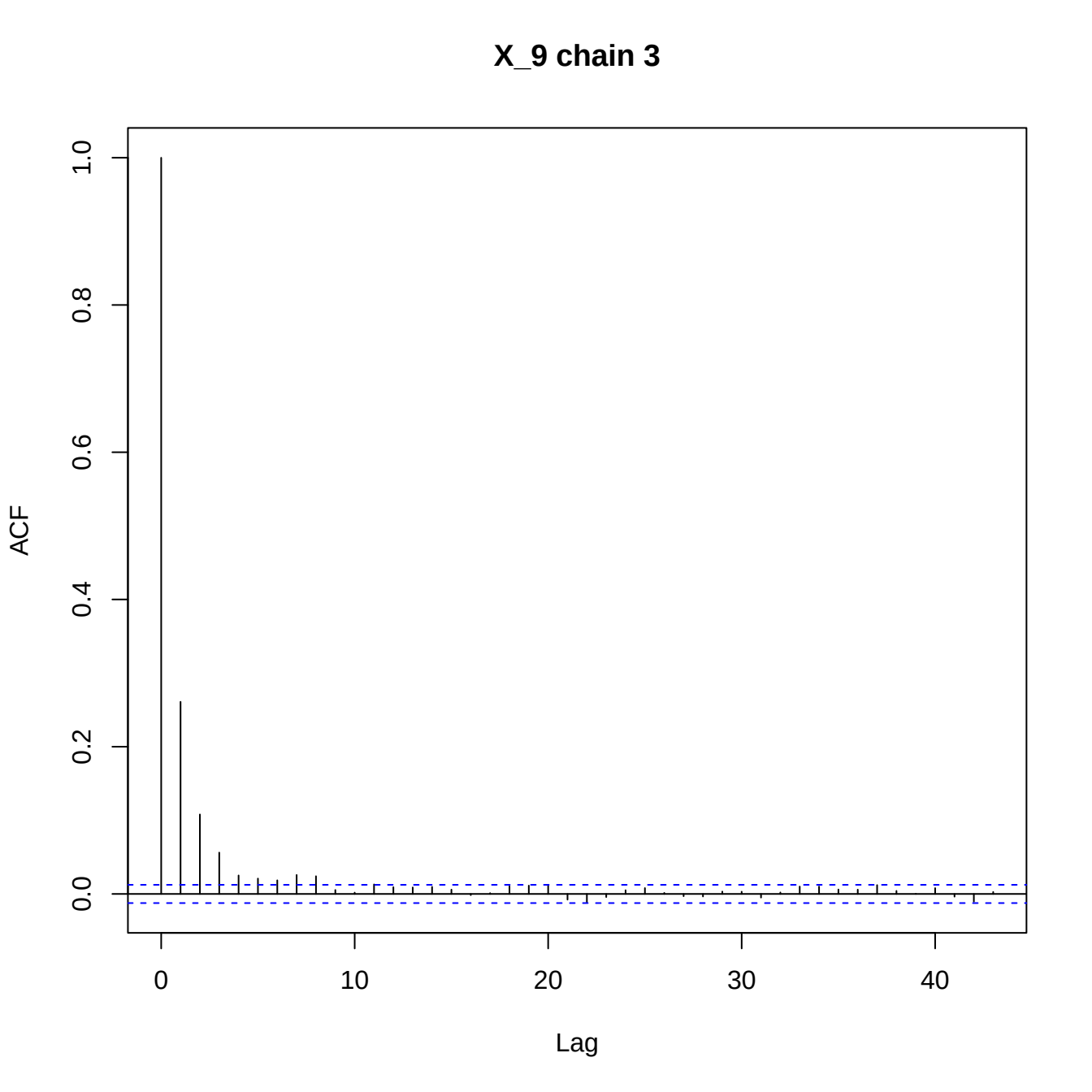
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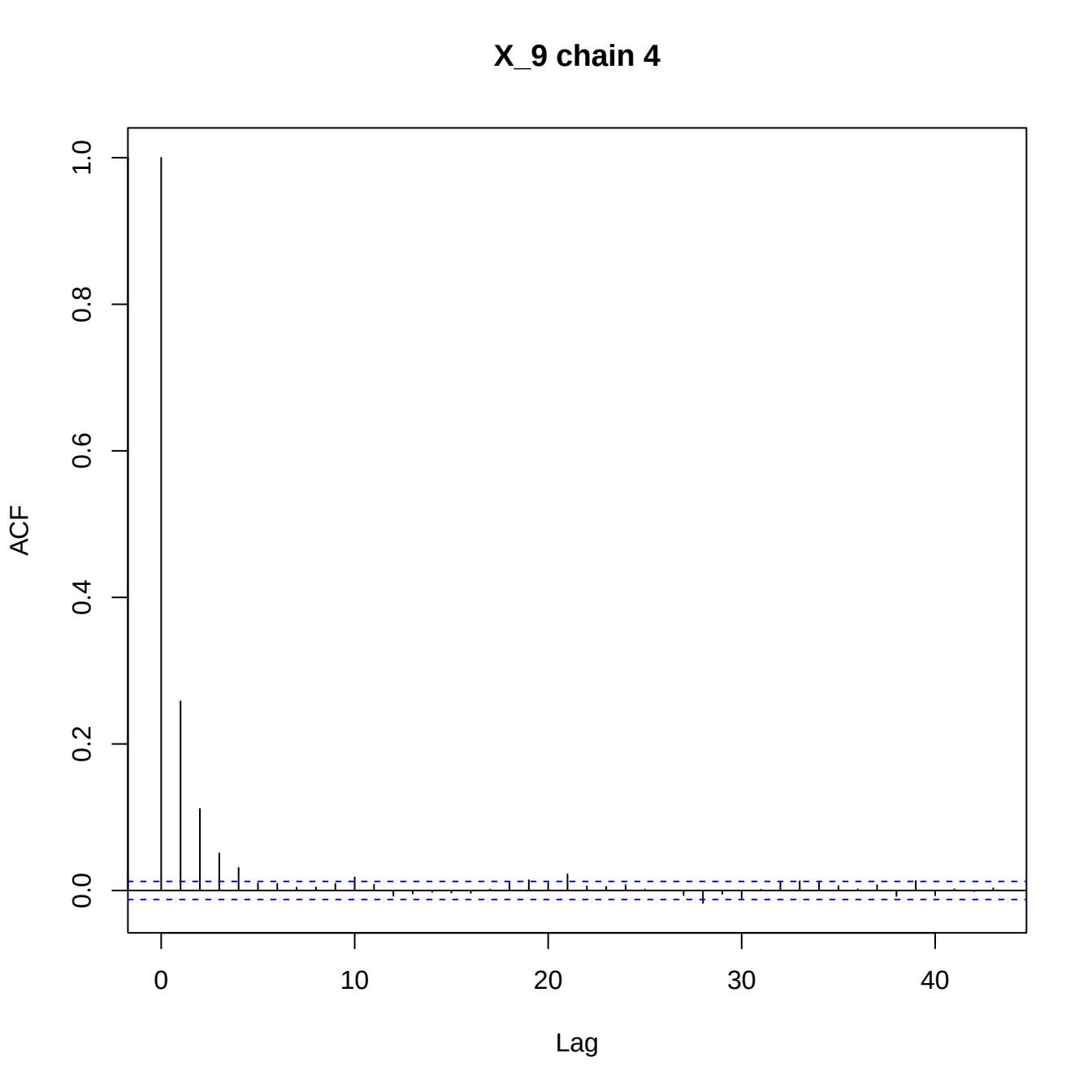
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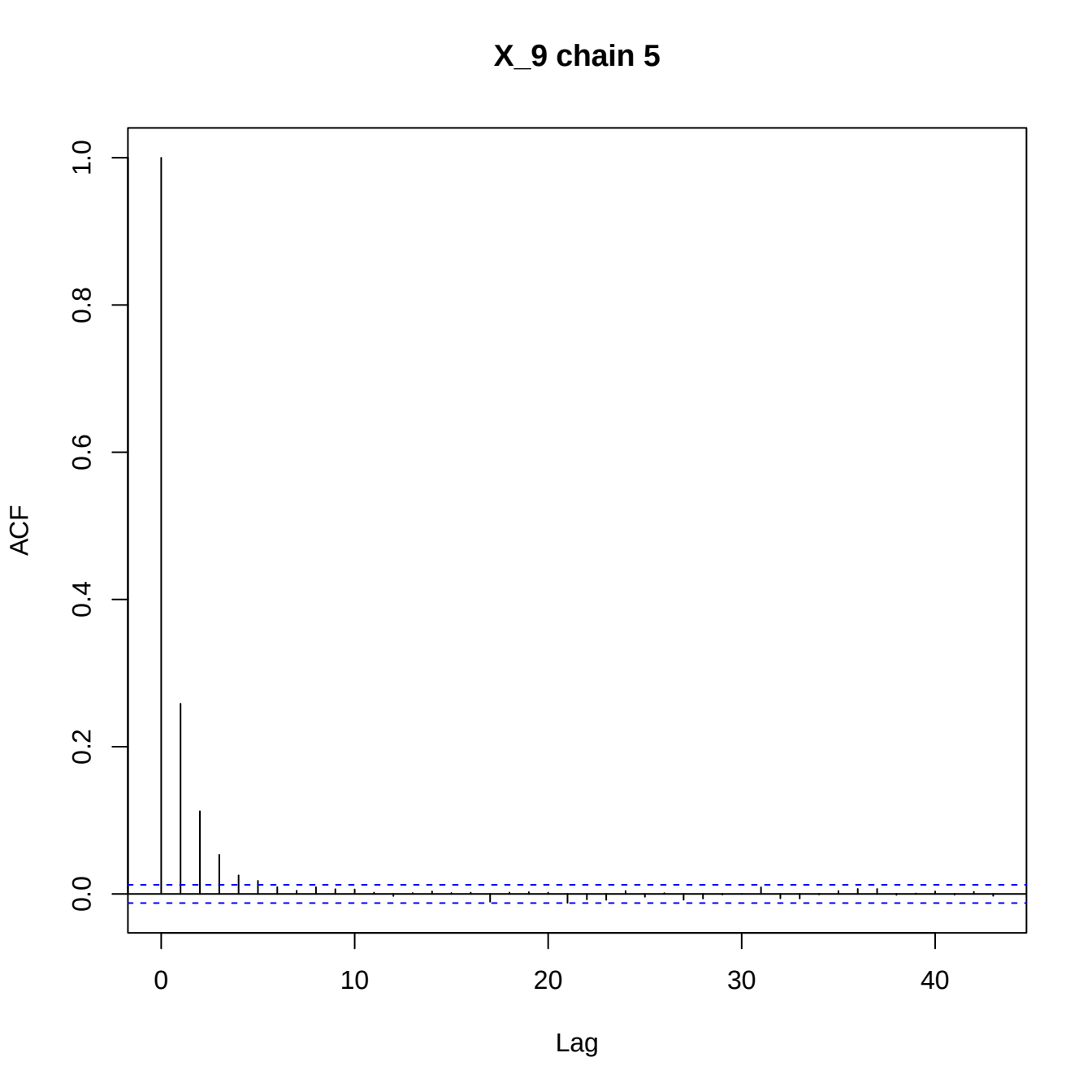
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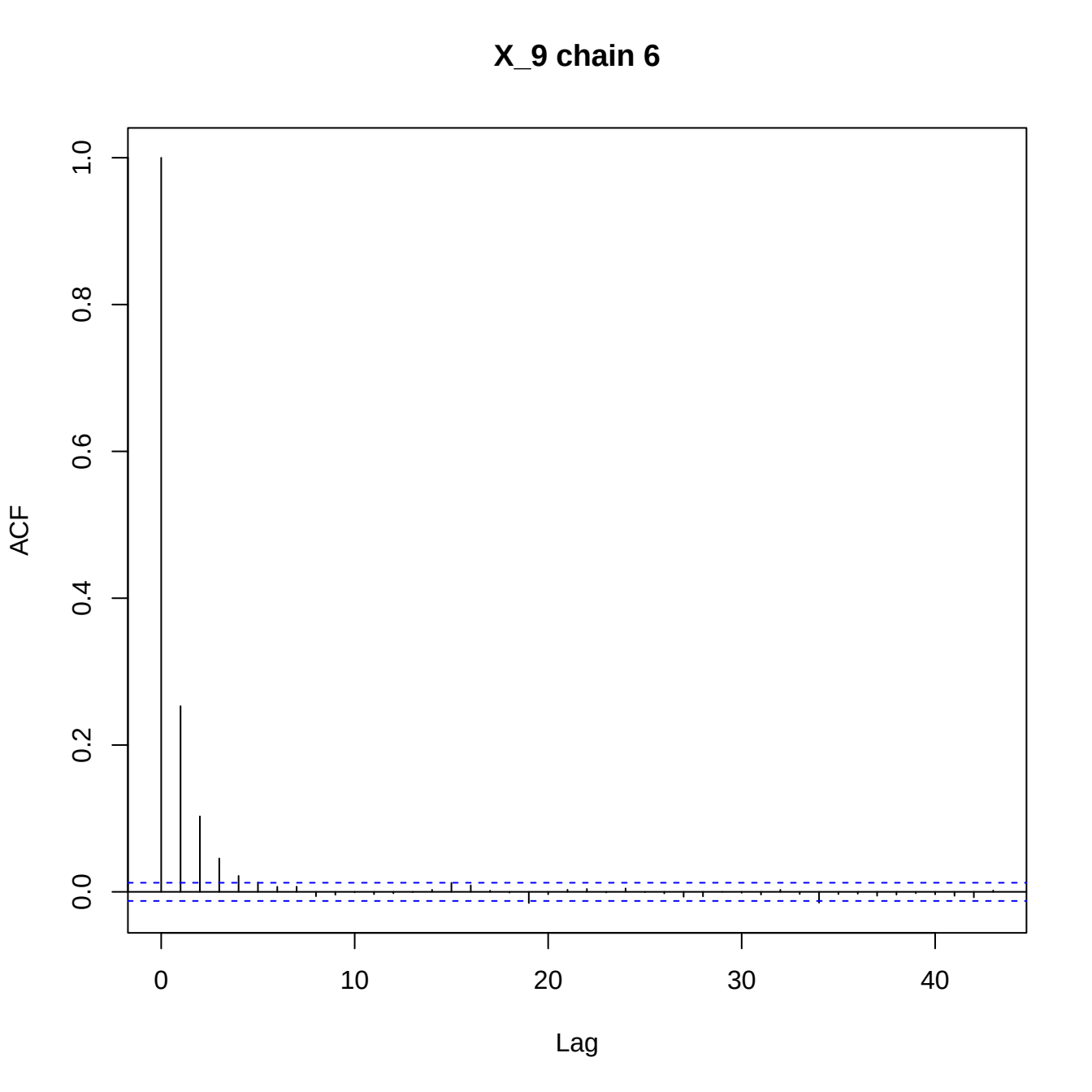
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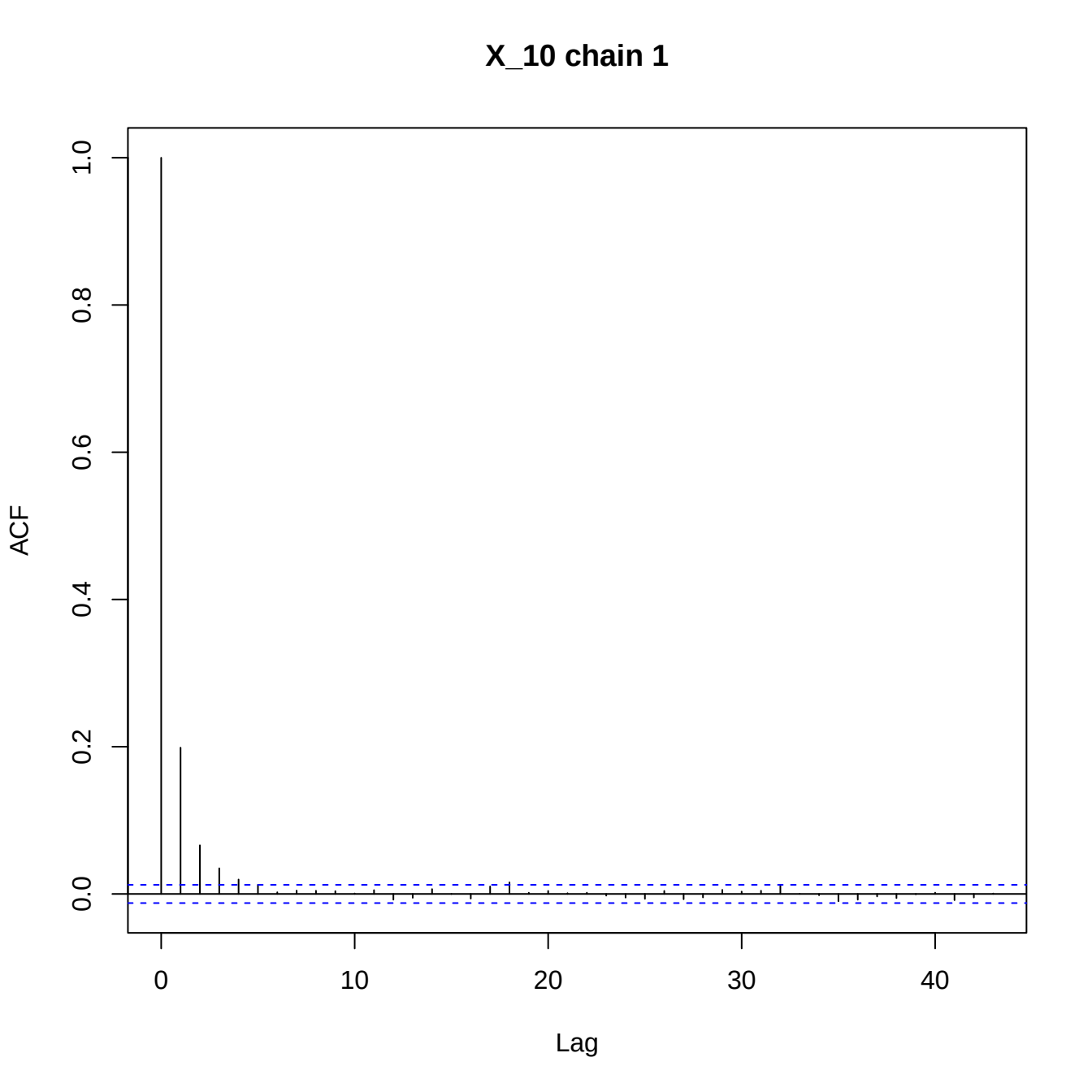
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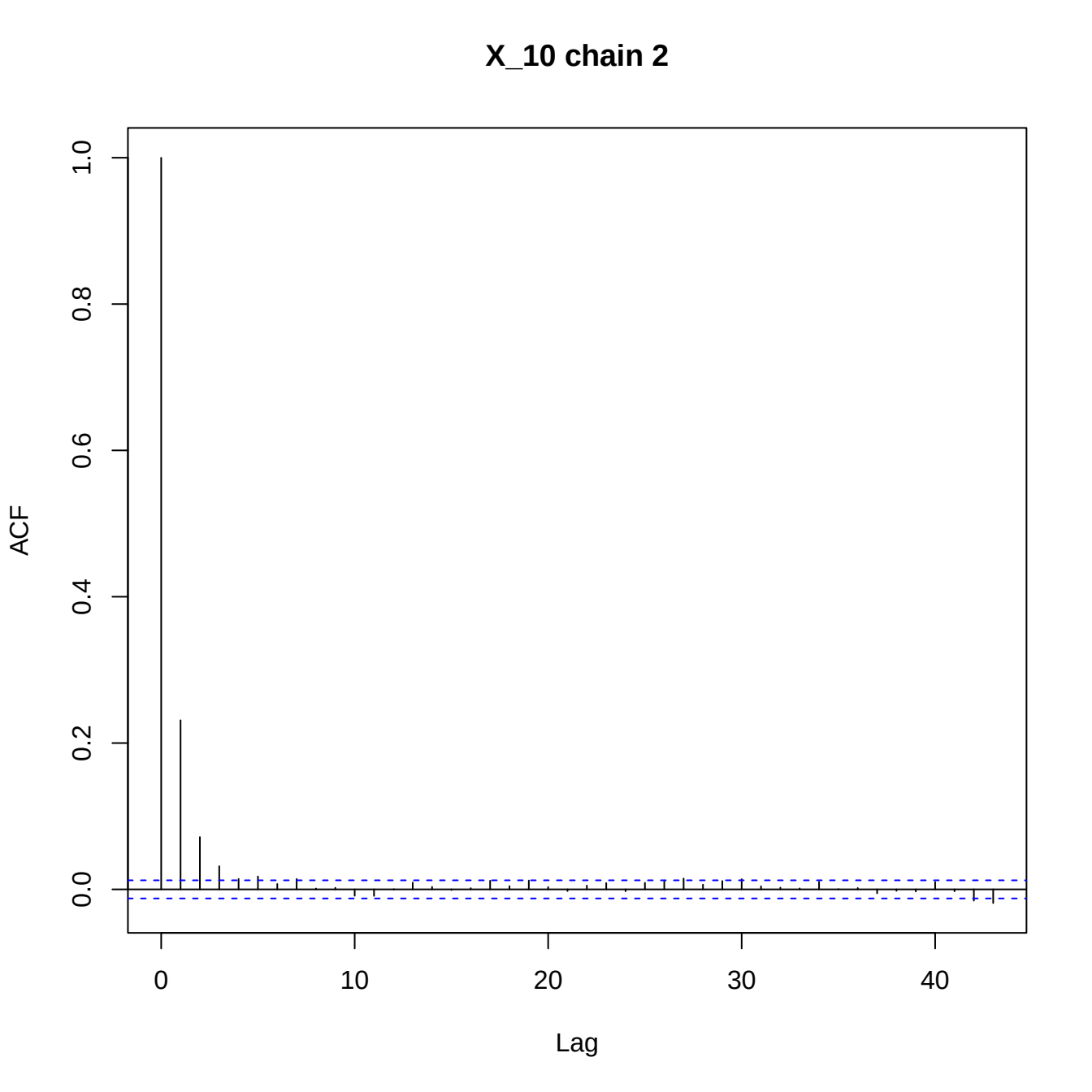
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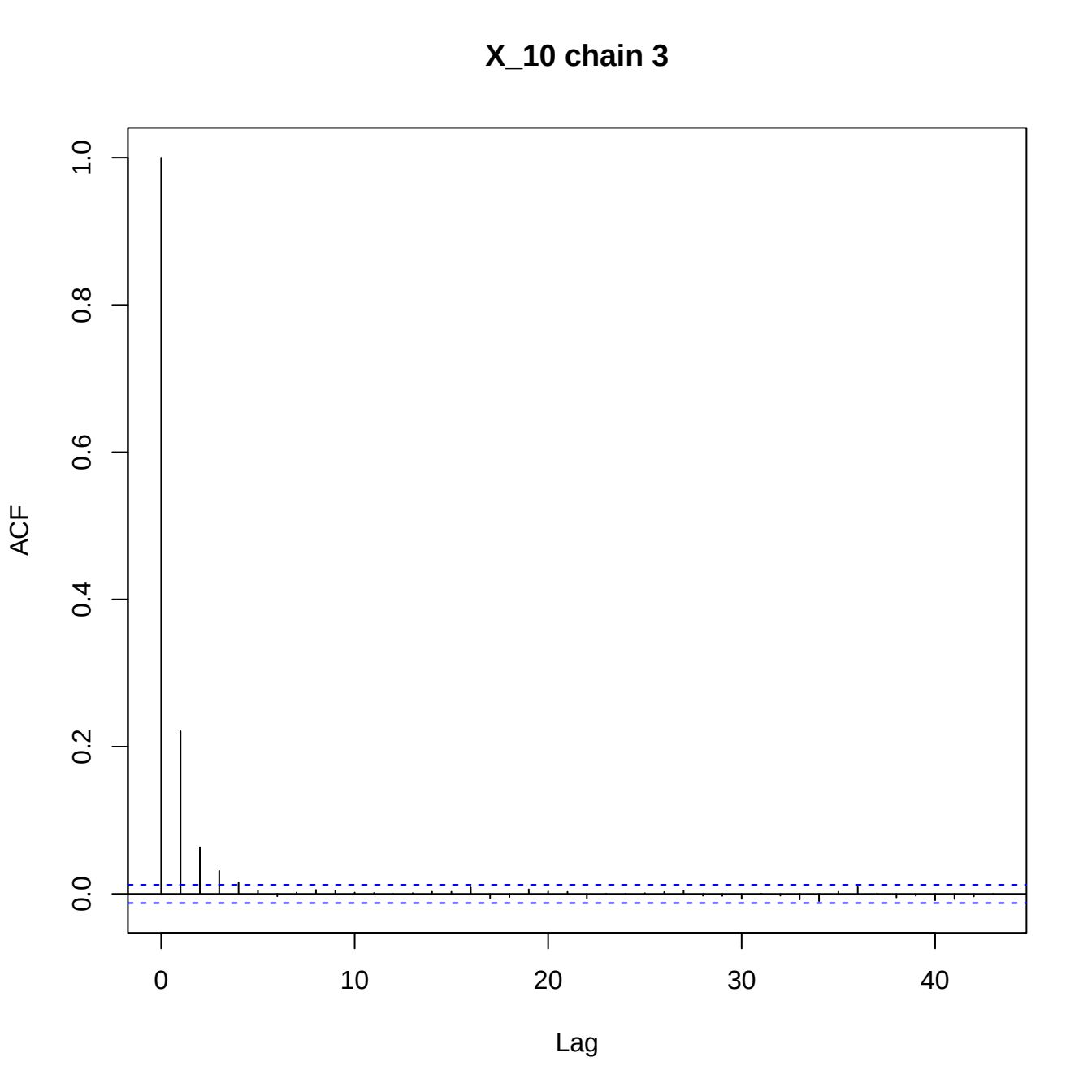
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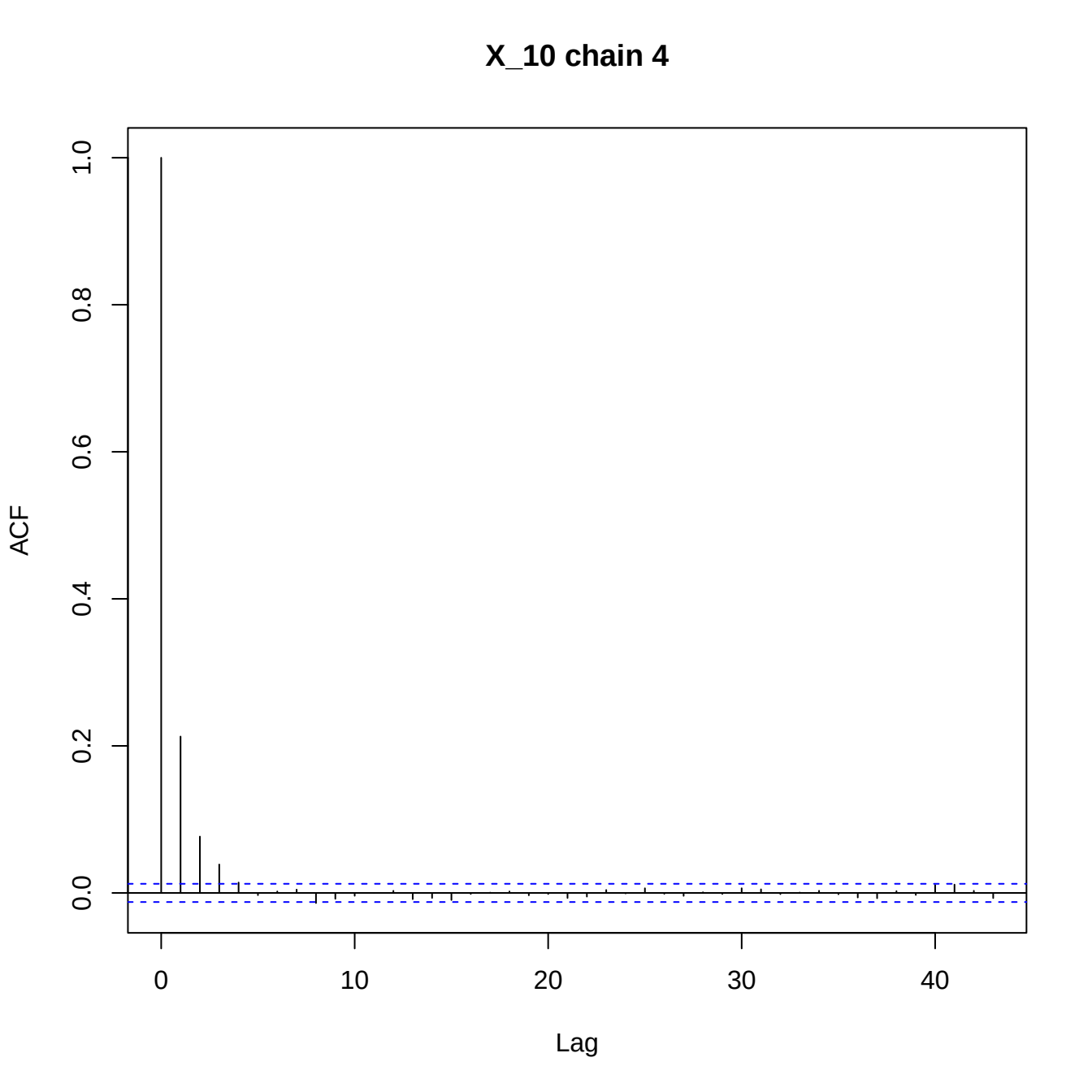
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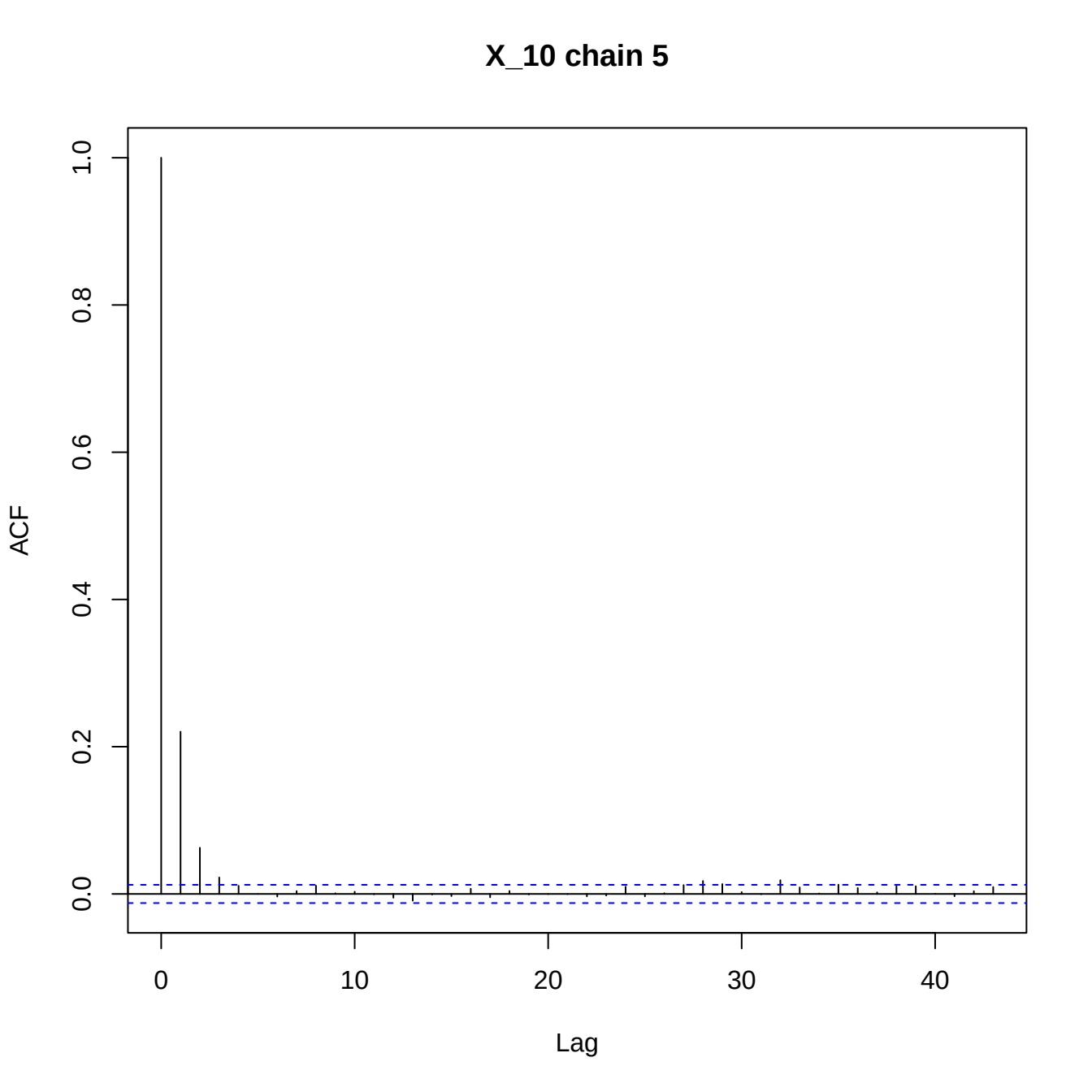
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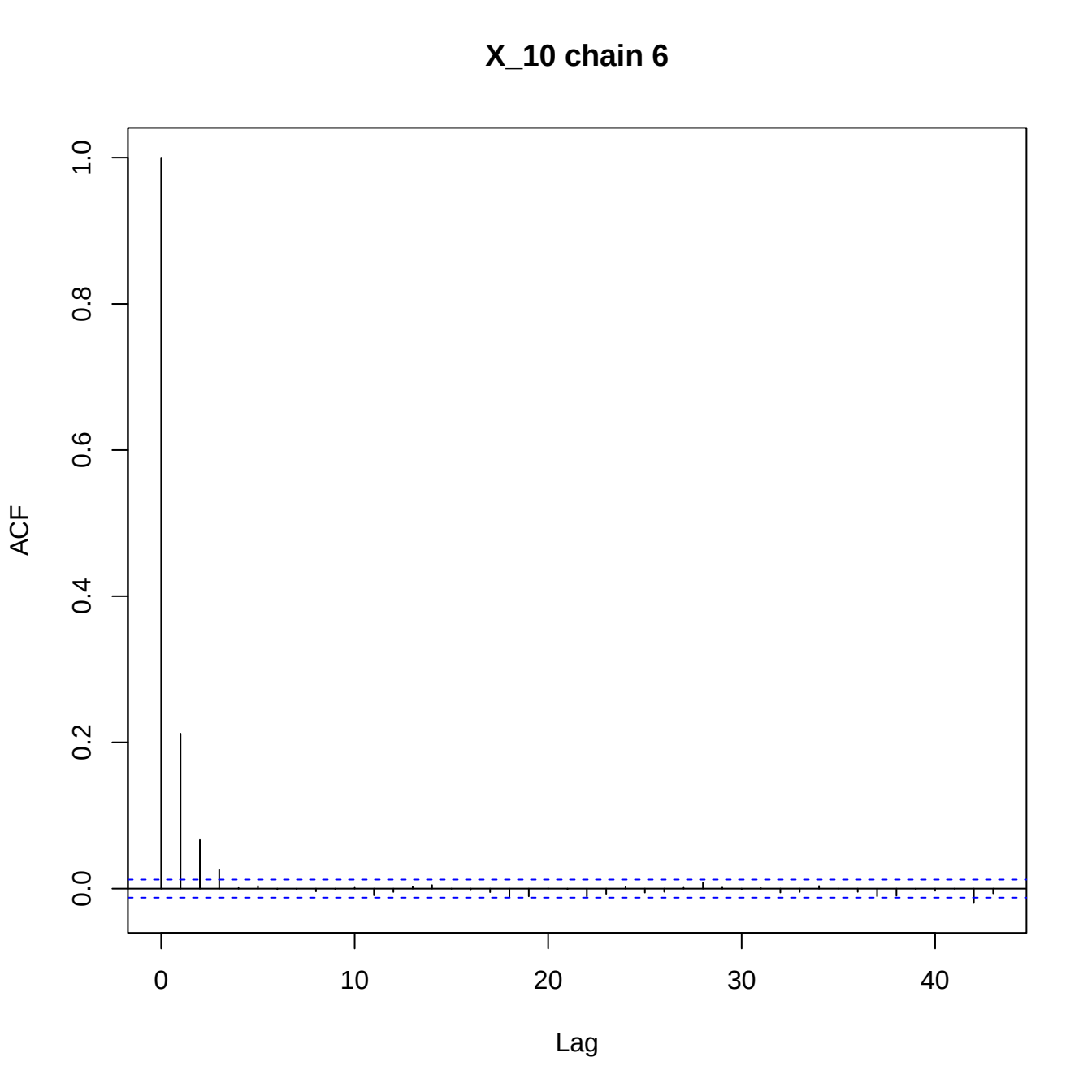
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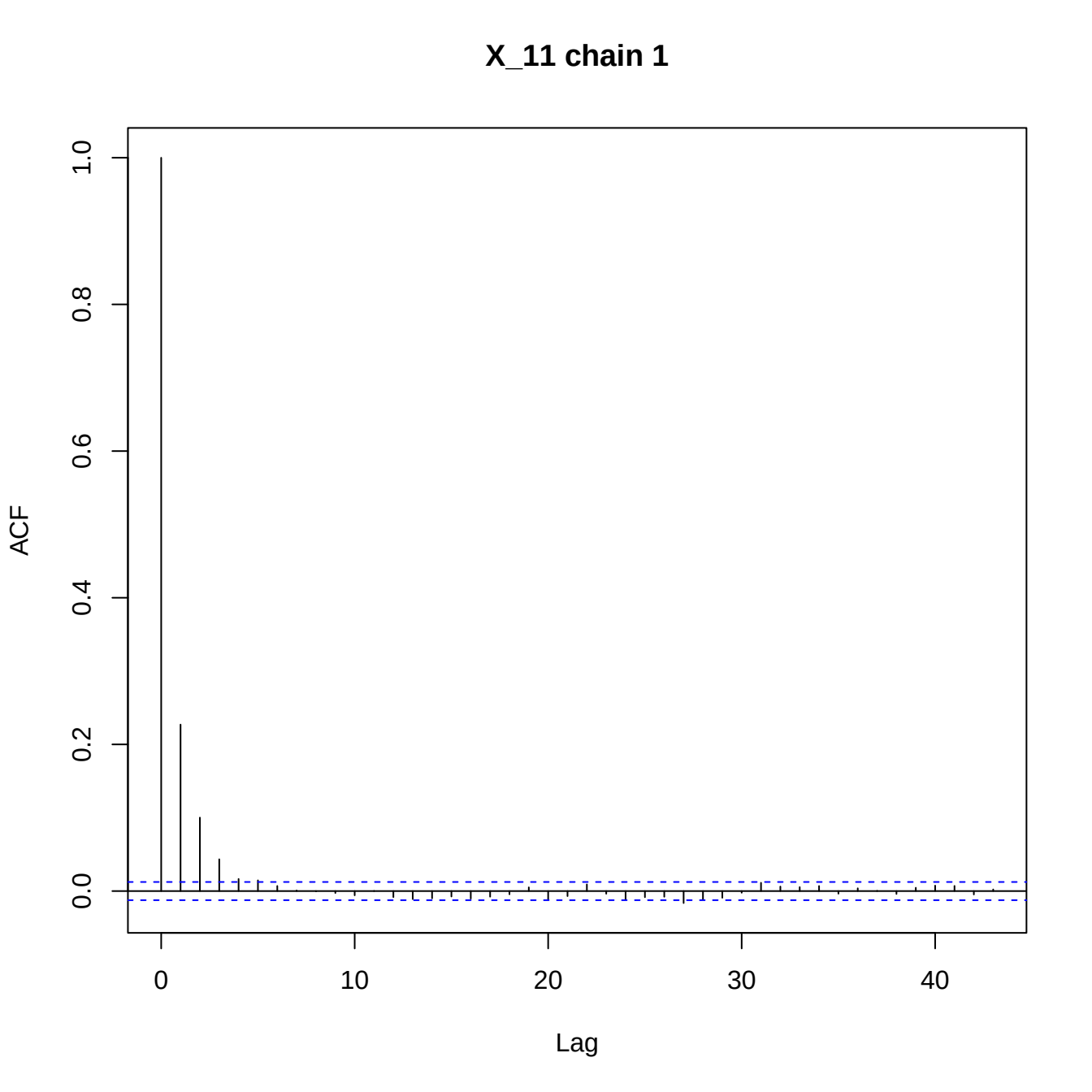
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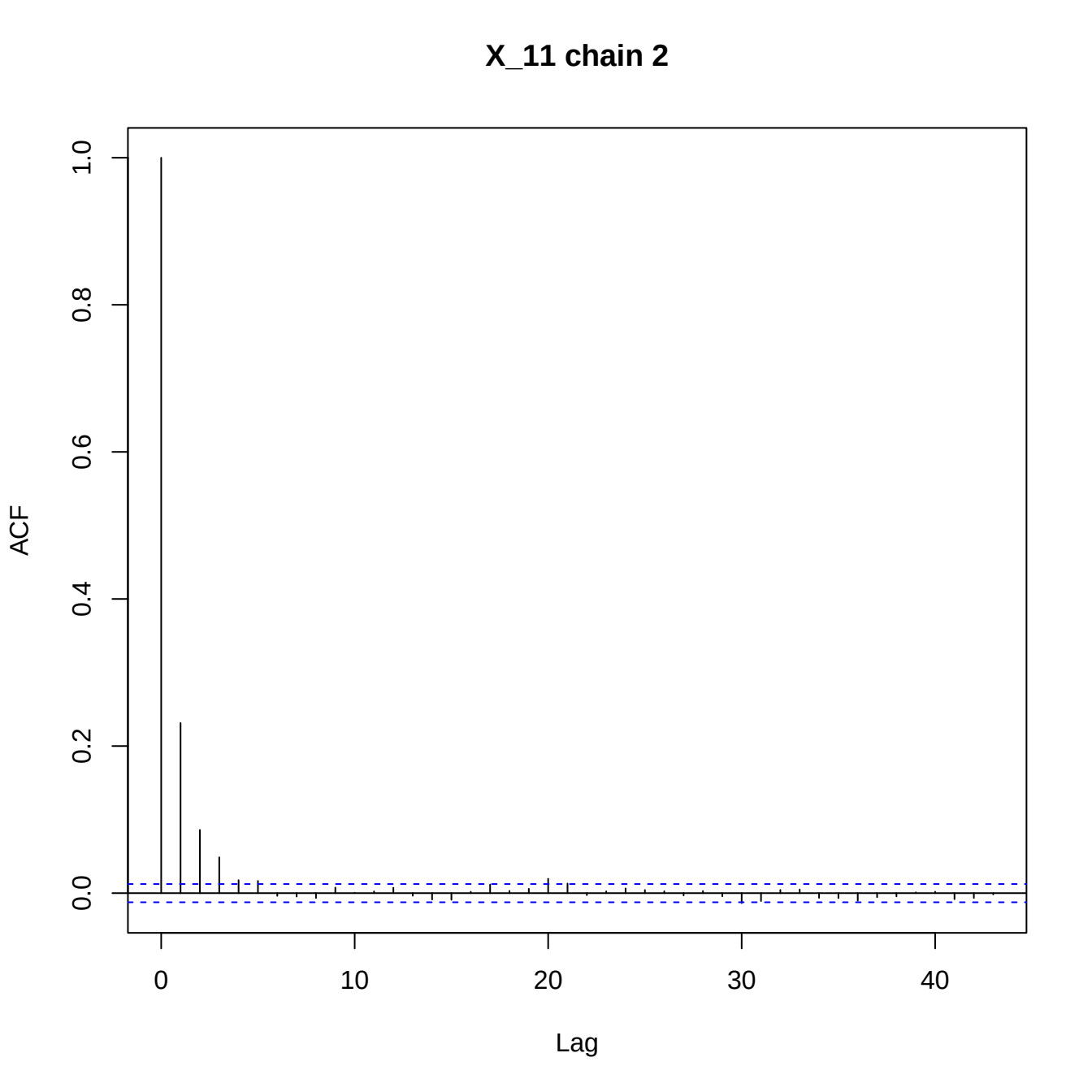
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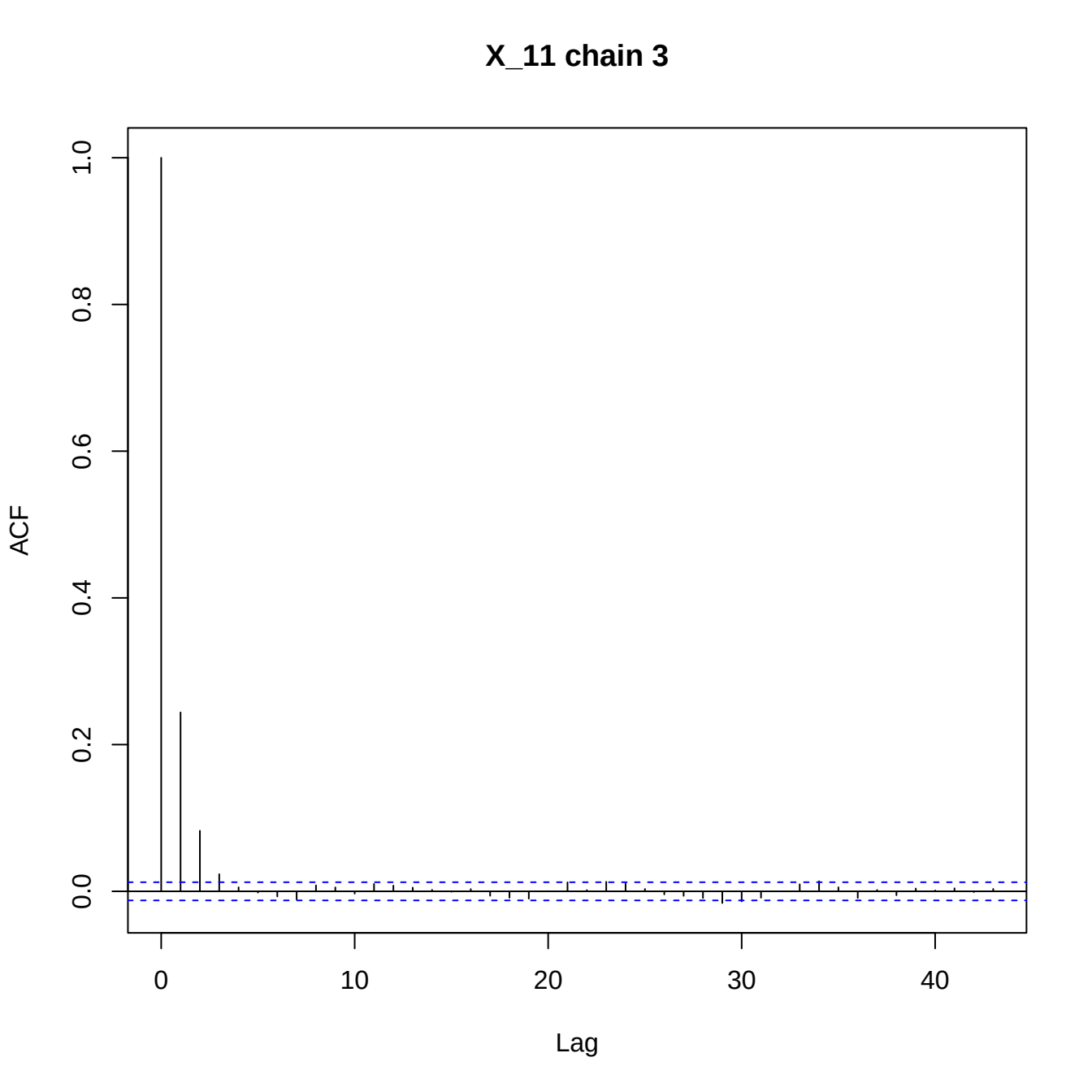
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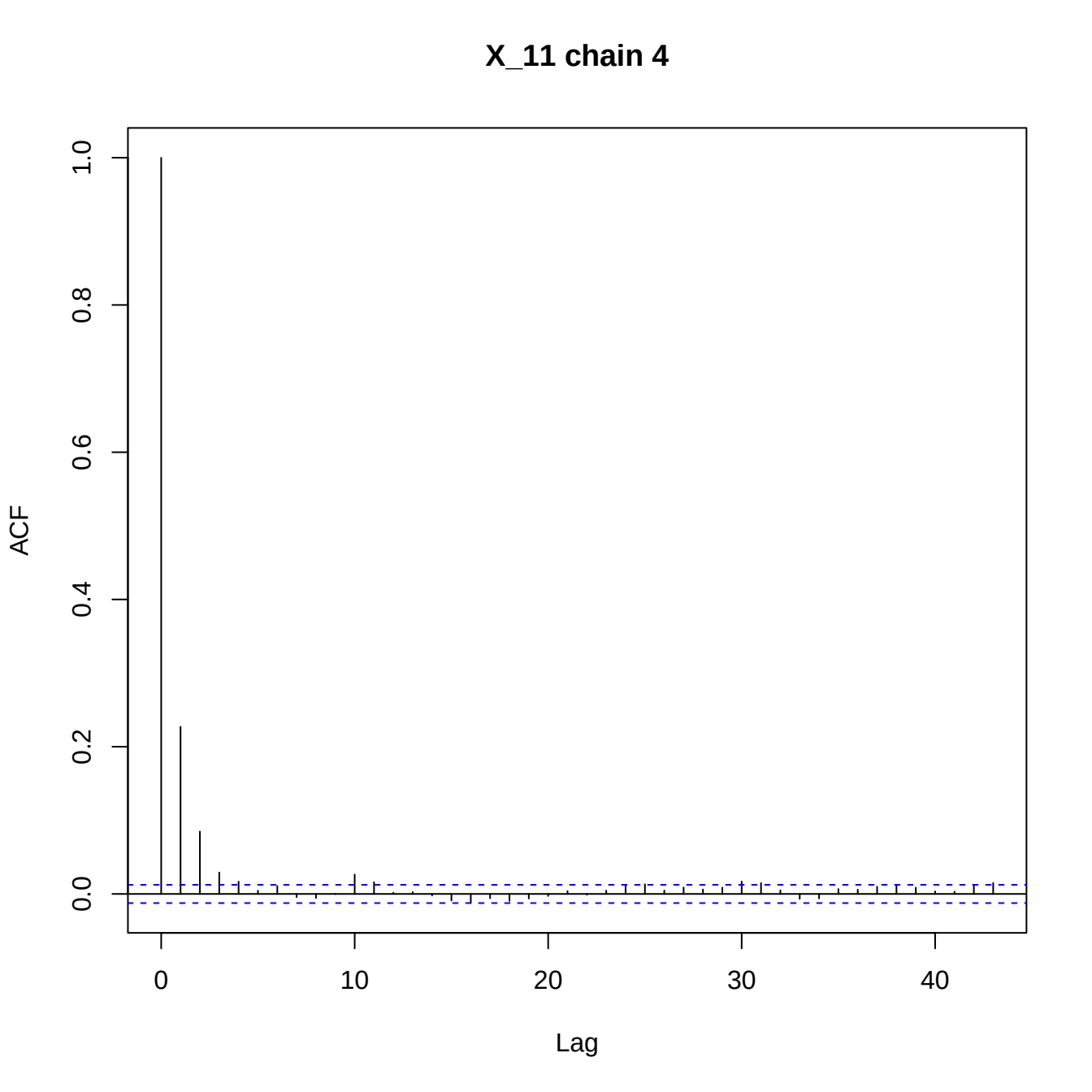
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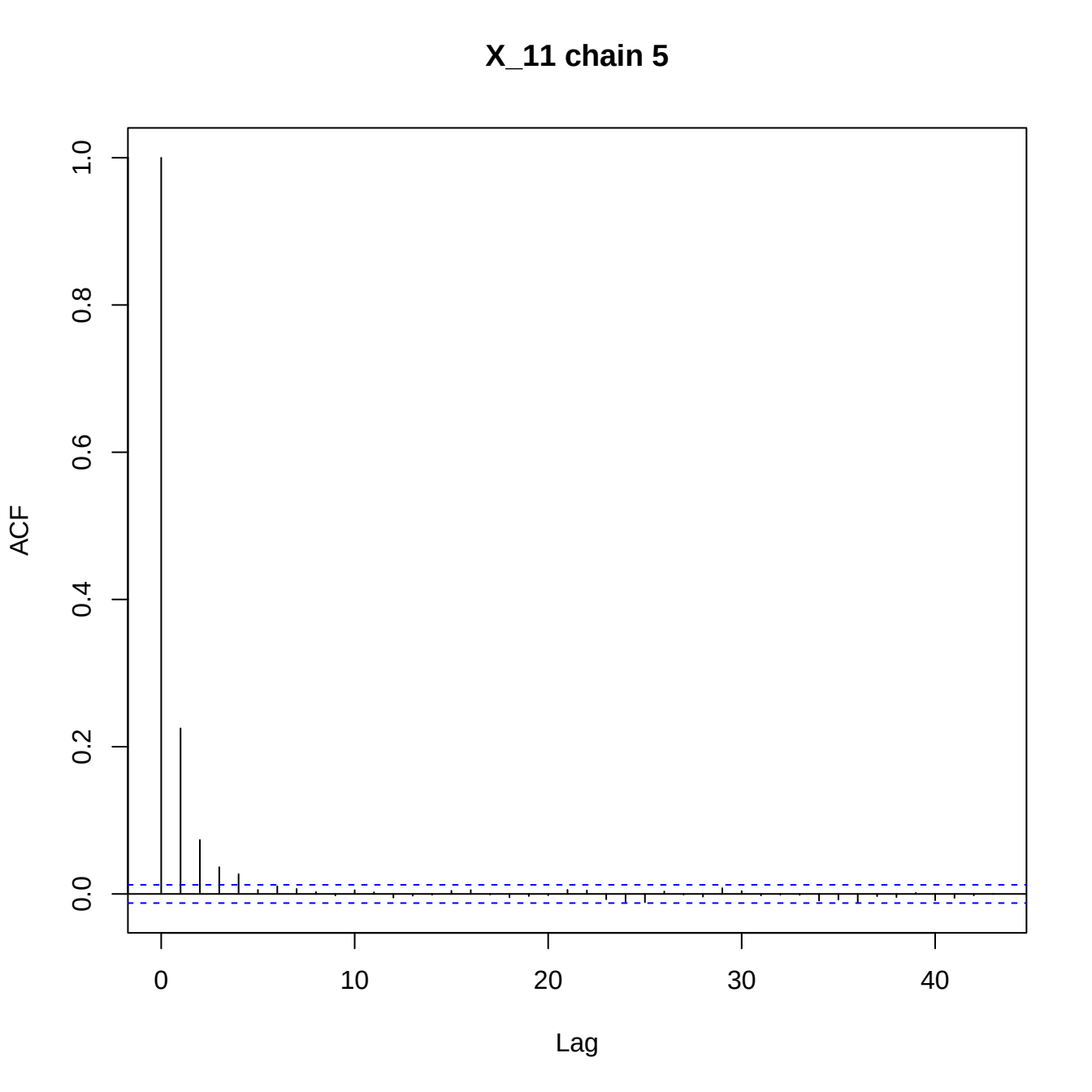
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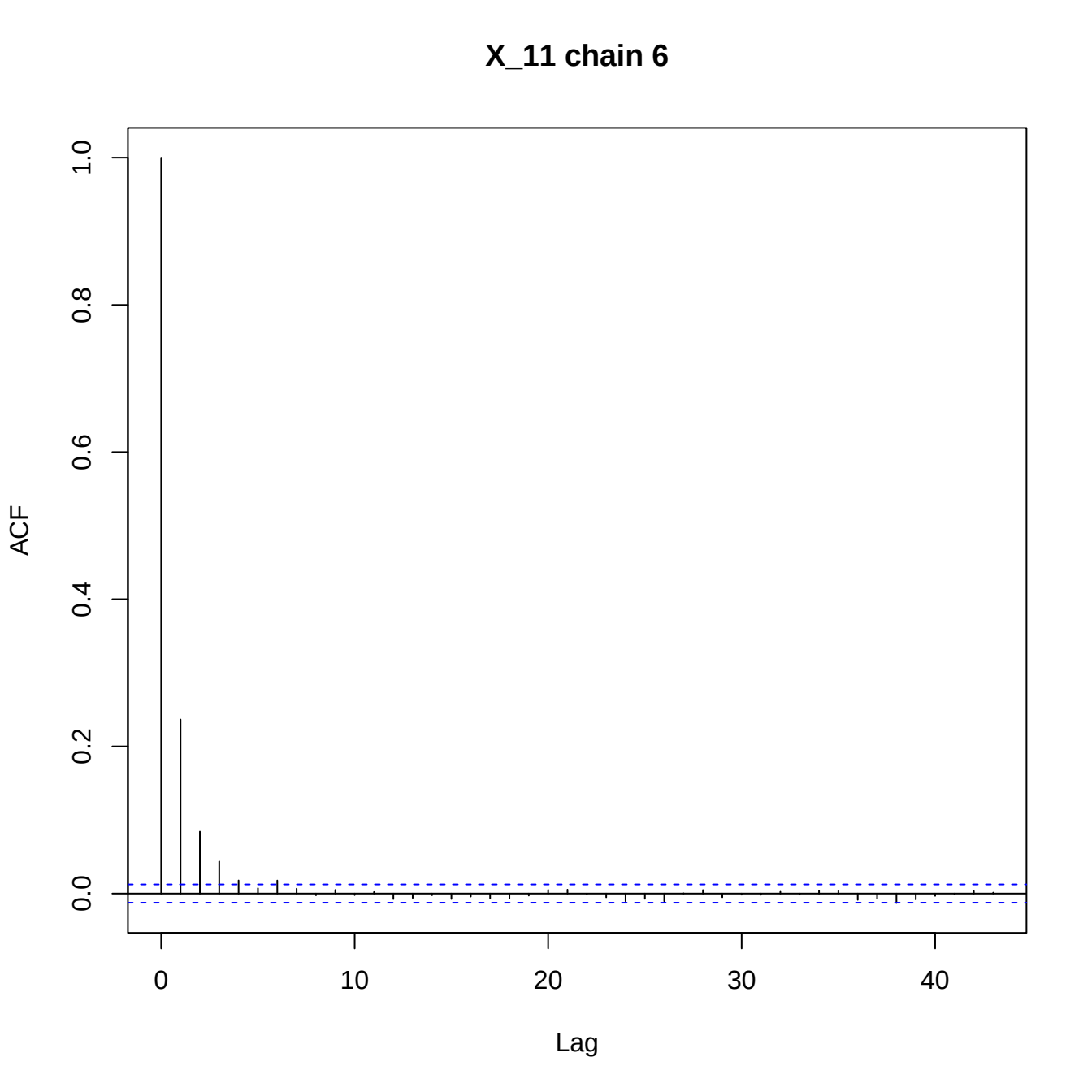
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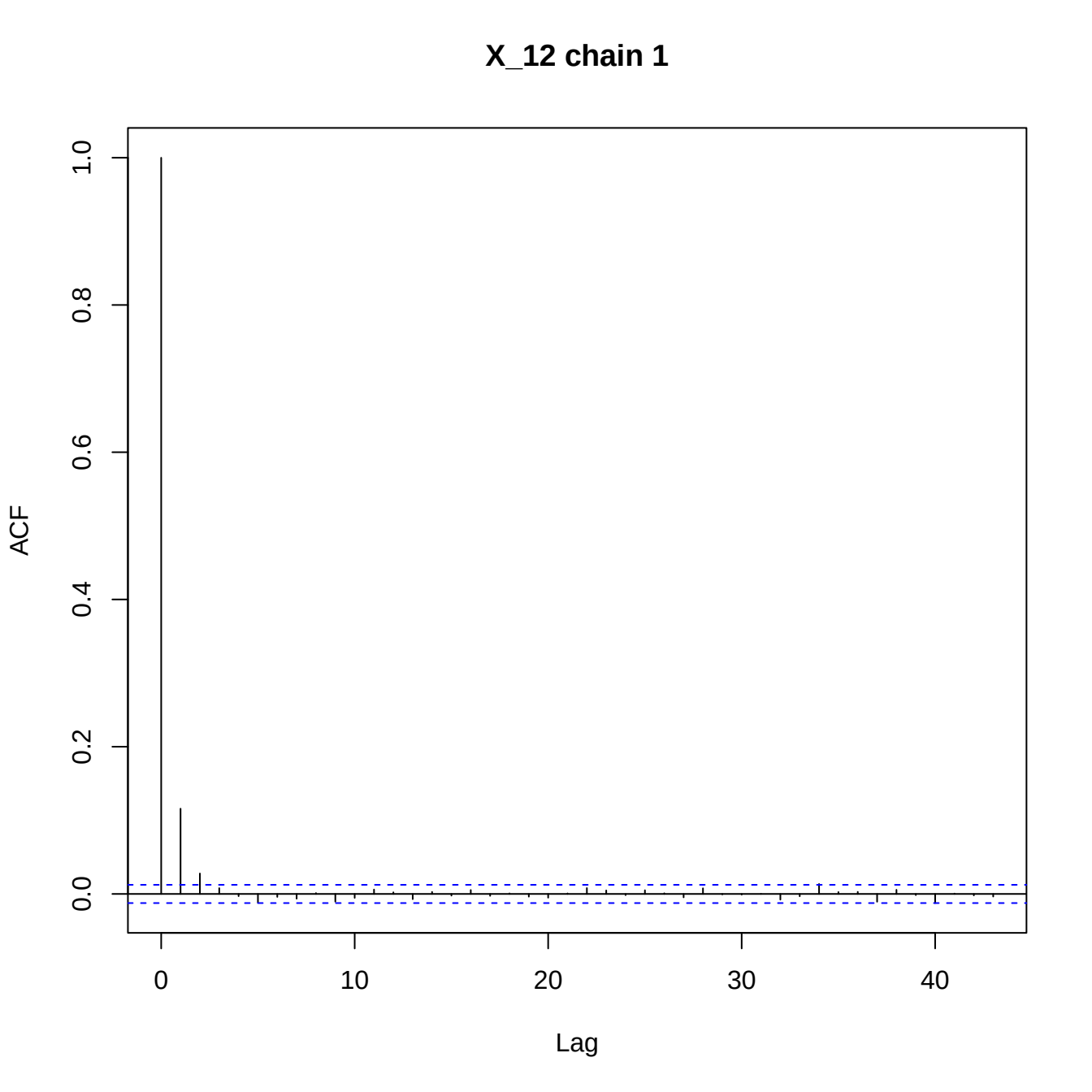
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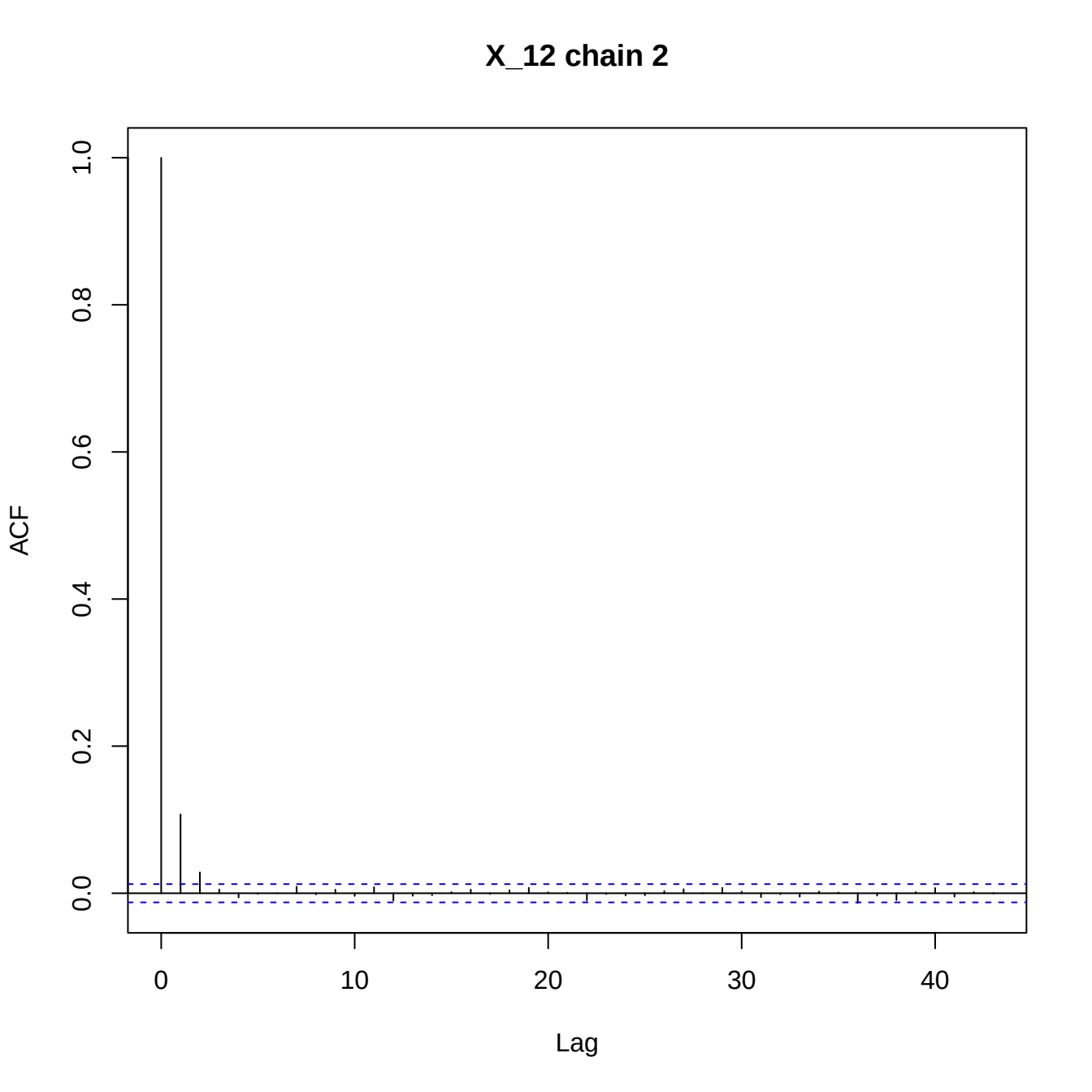
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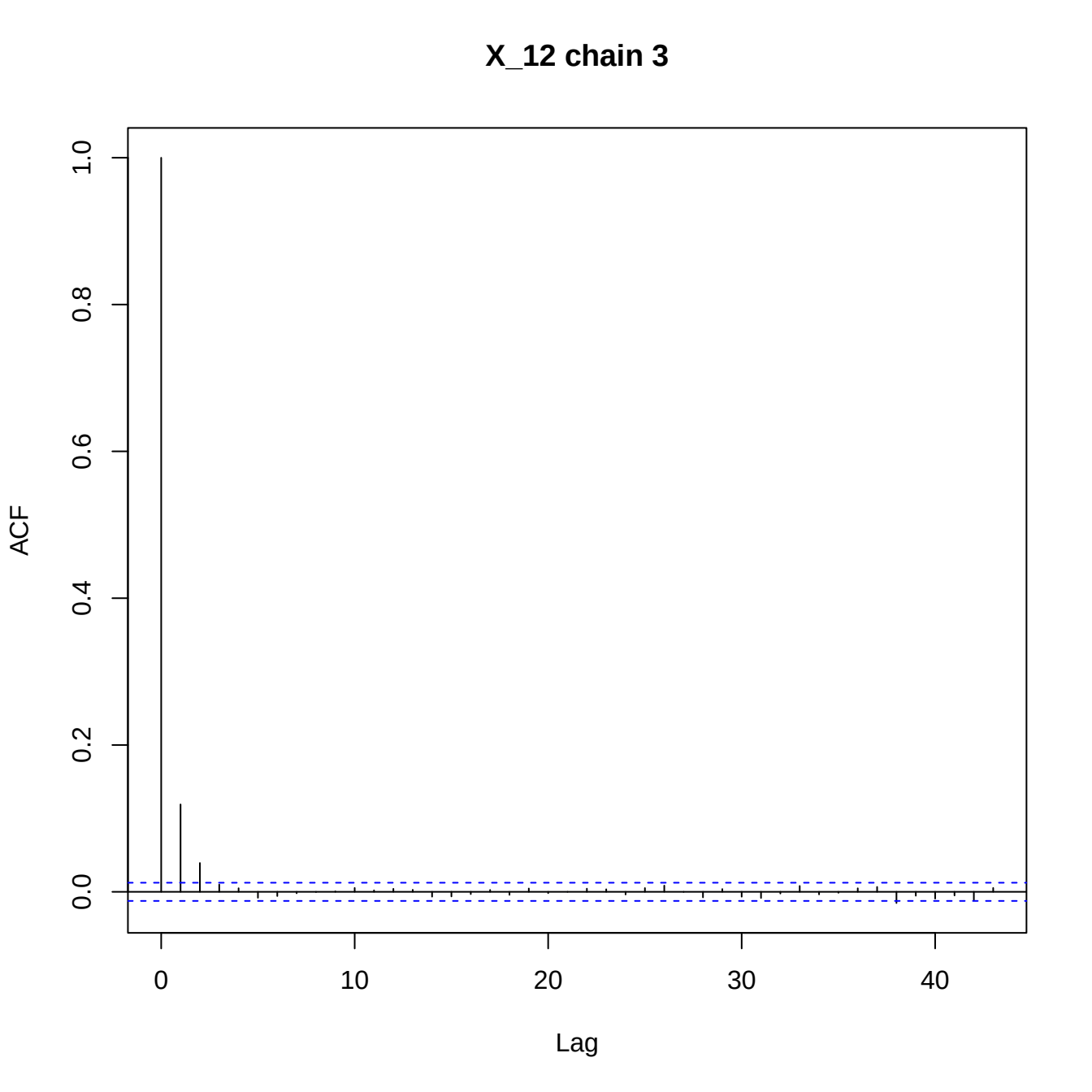
Lag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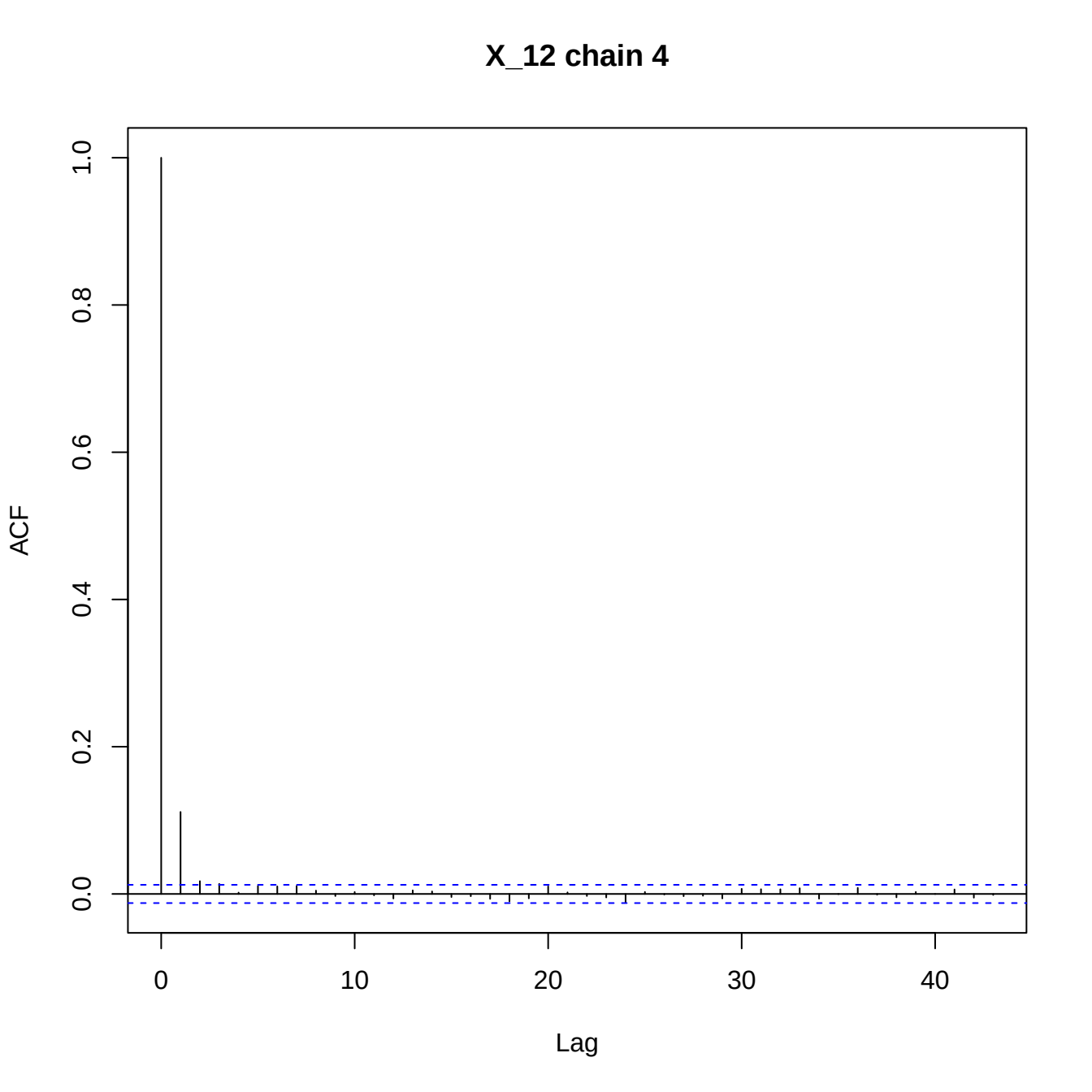
Lag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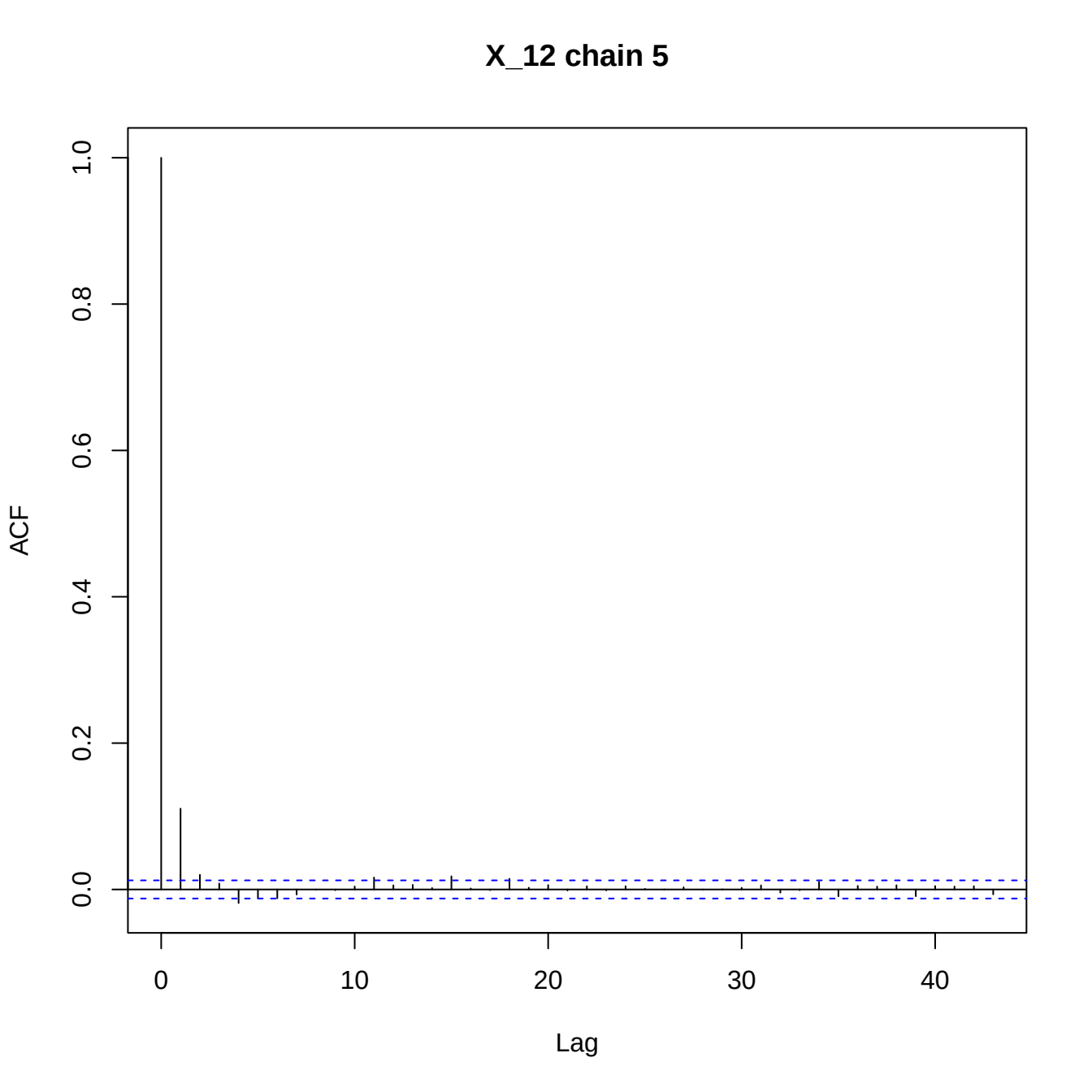
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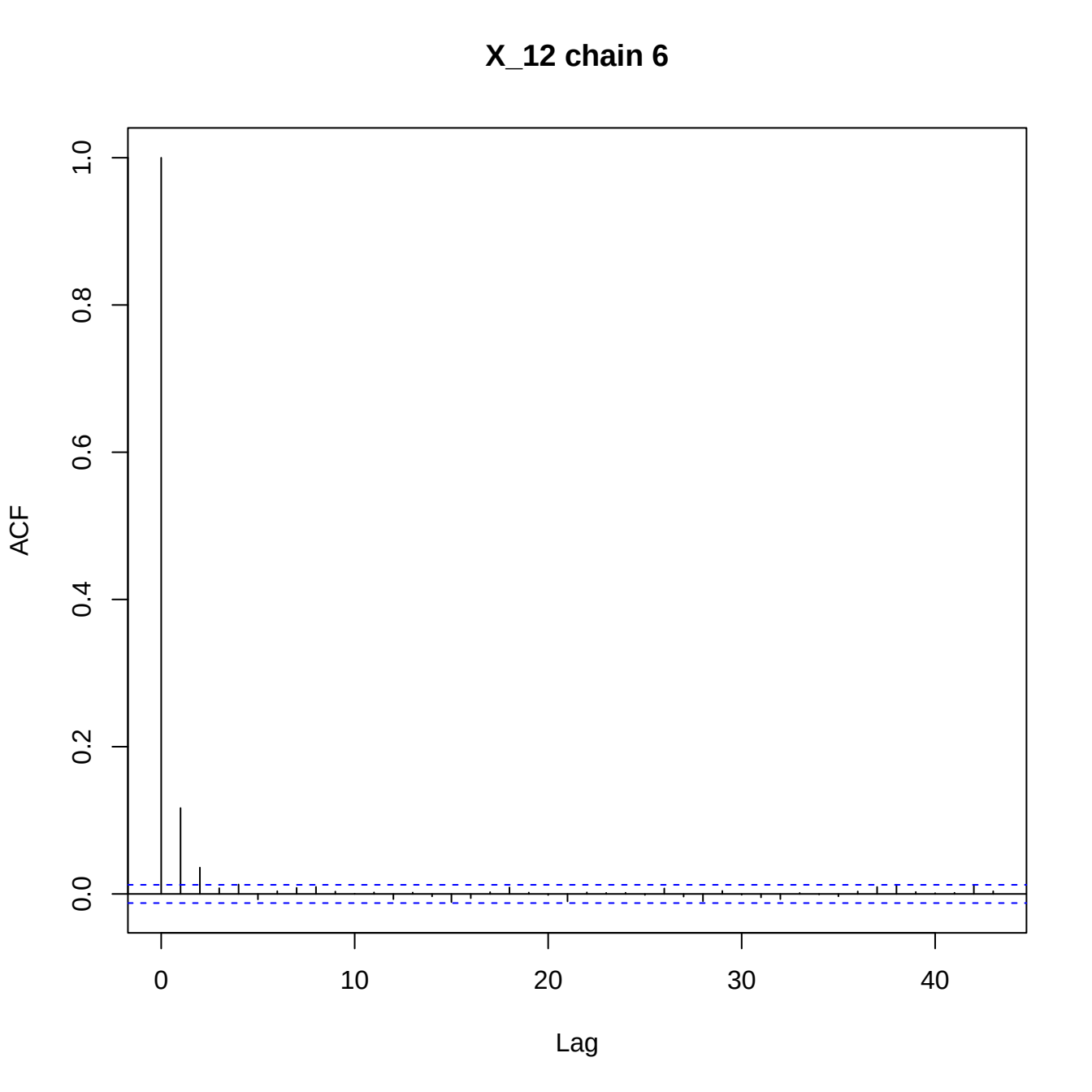
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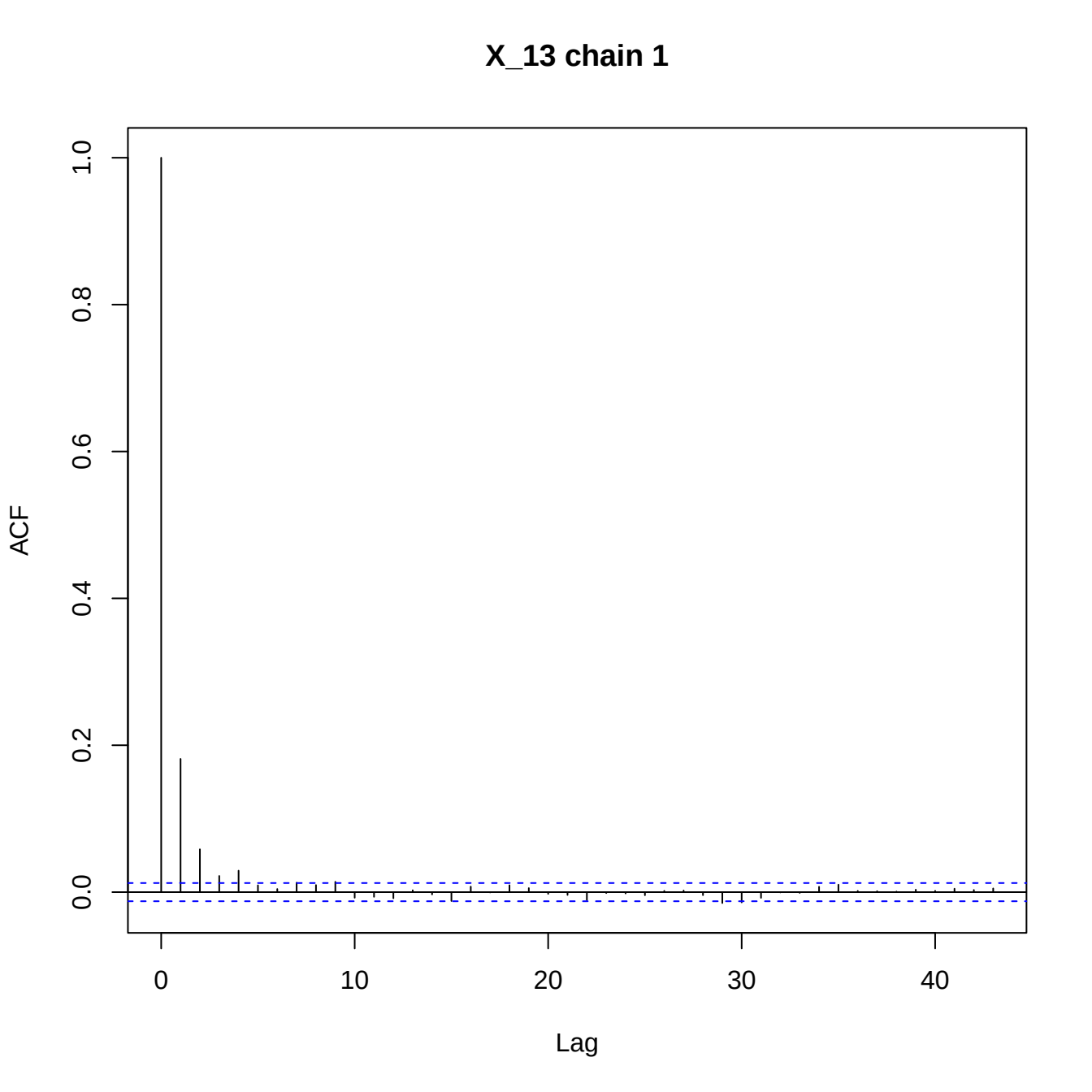
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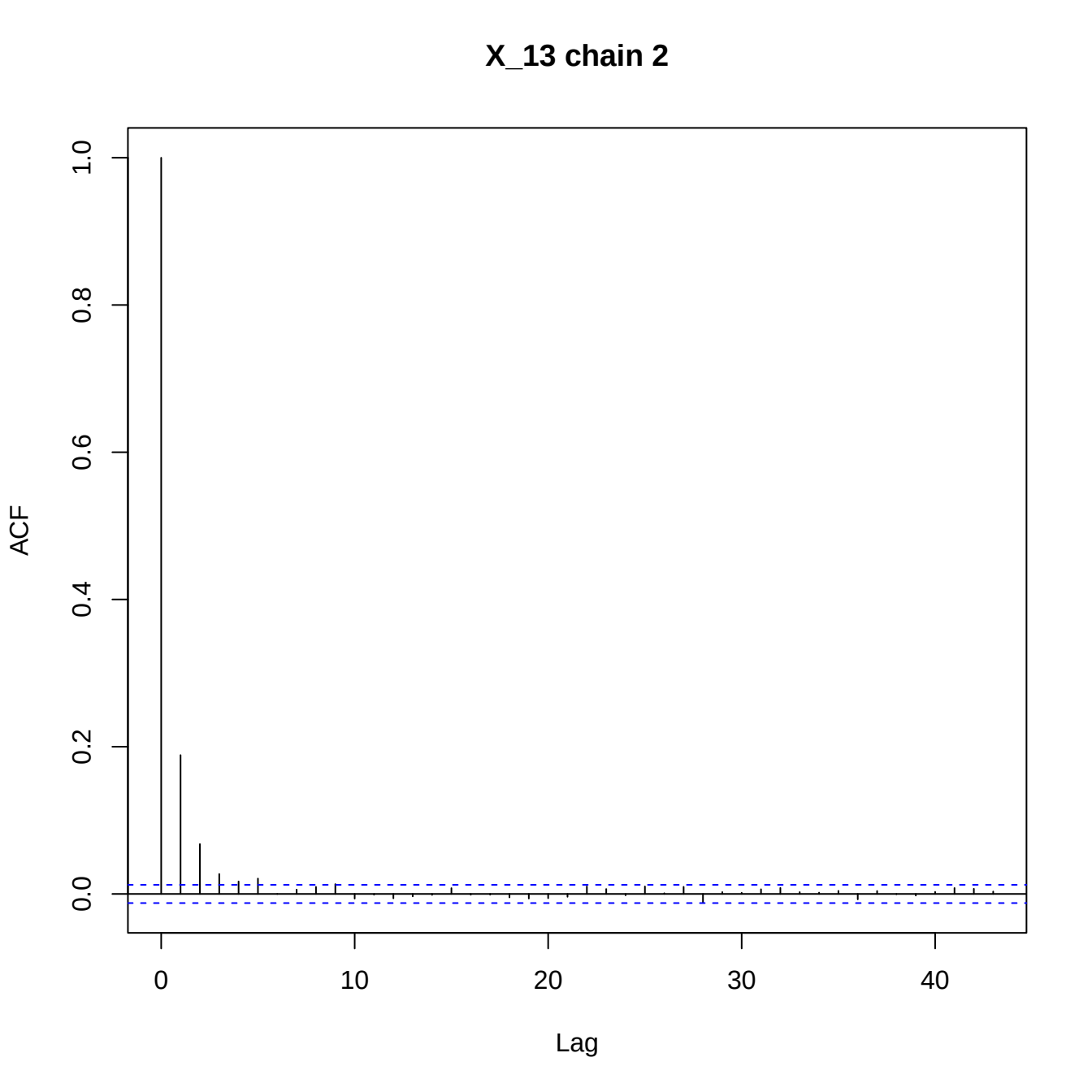
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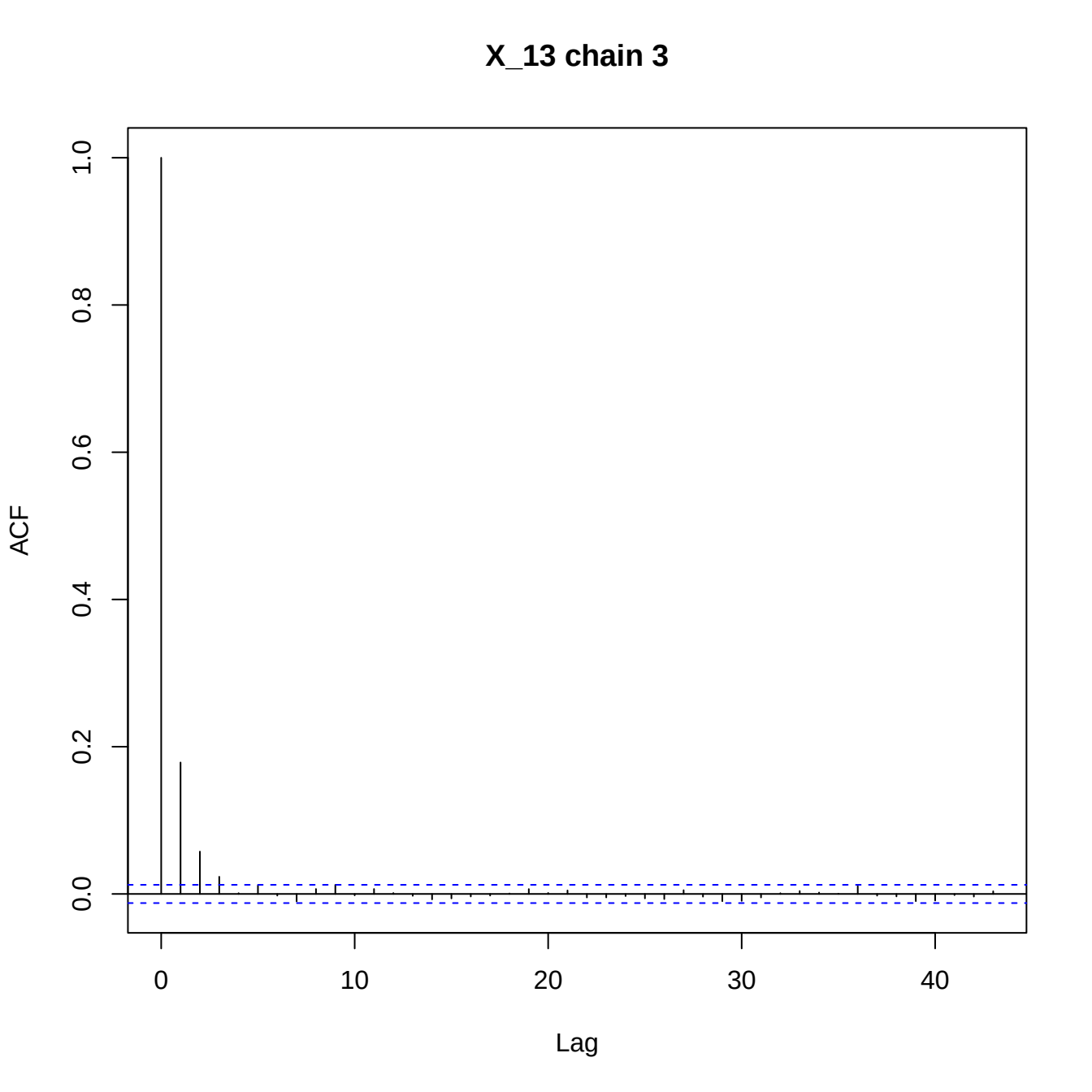
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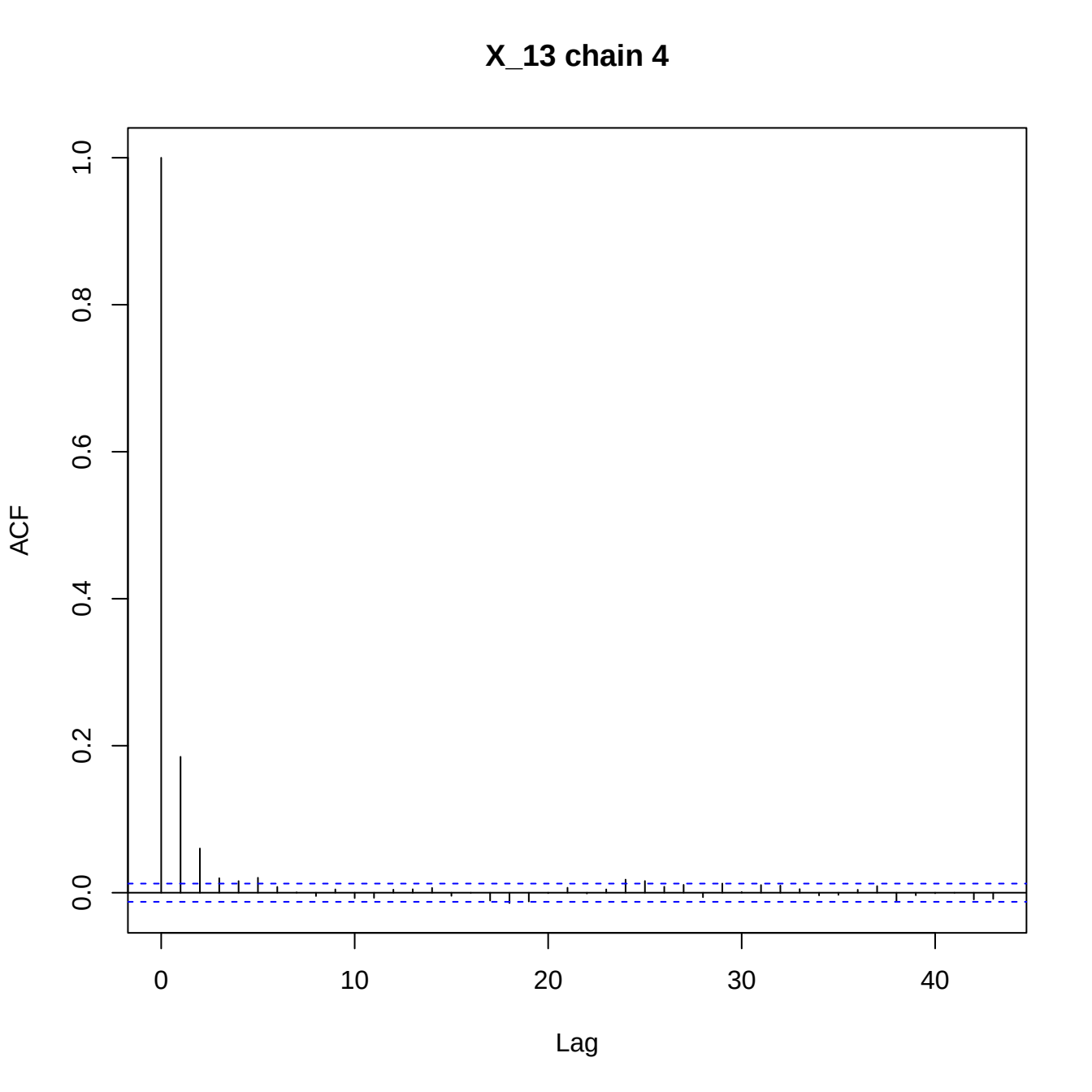
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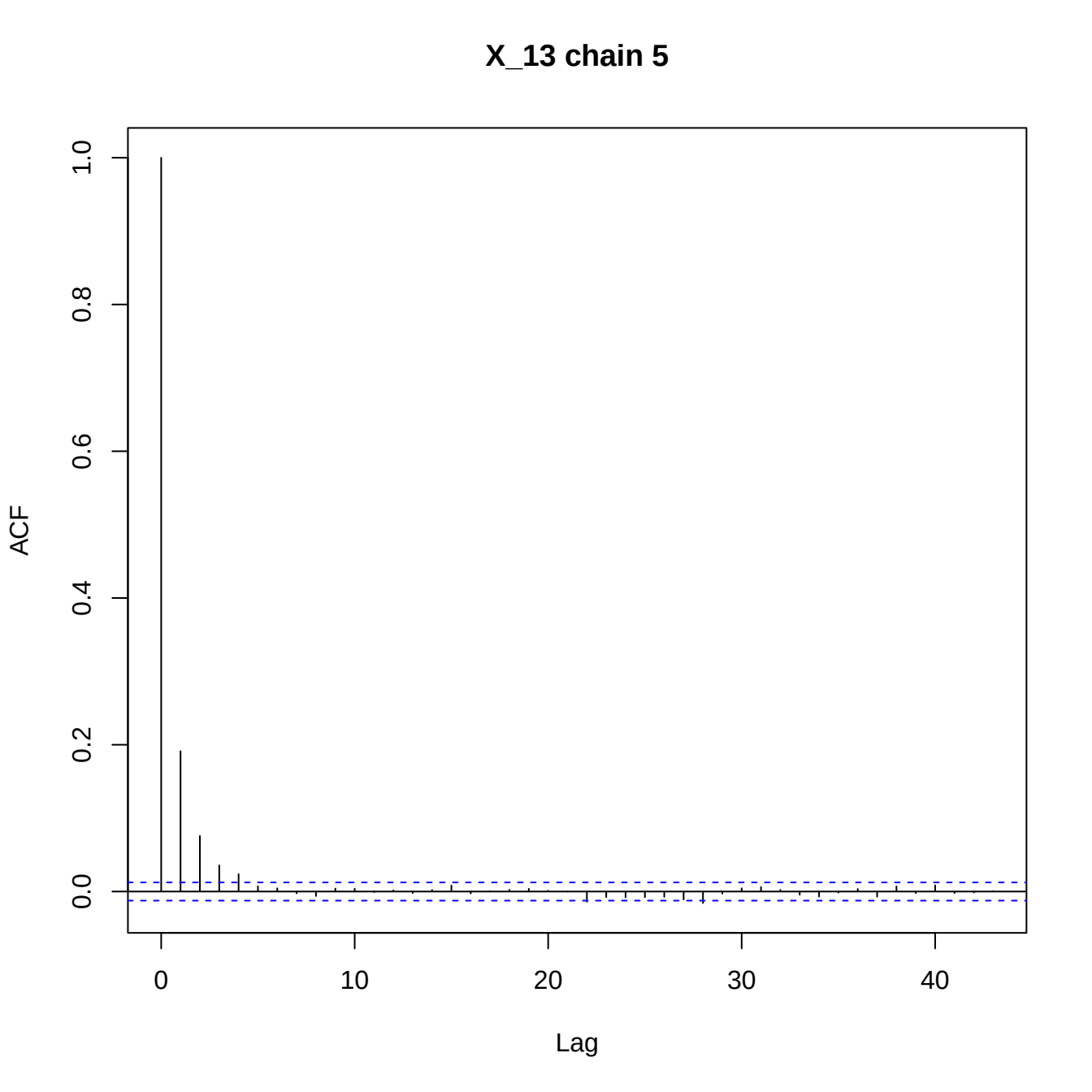
Lag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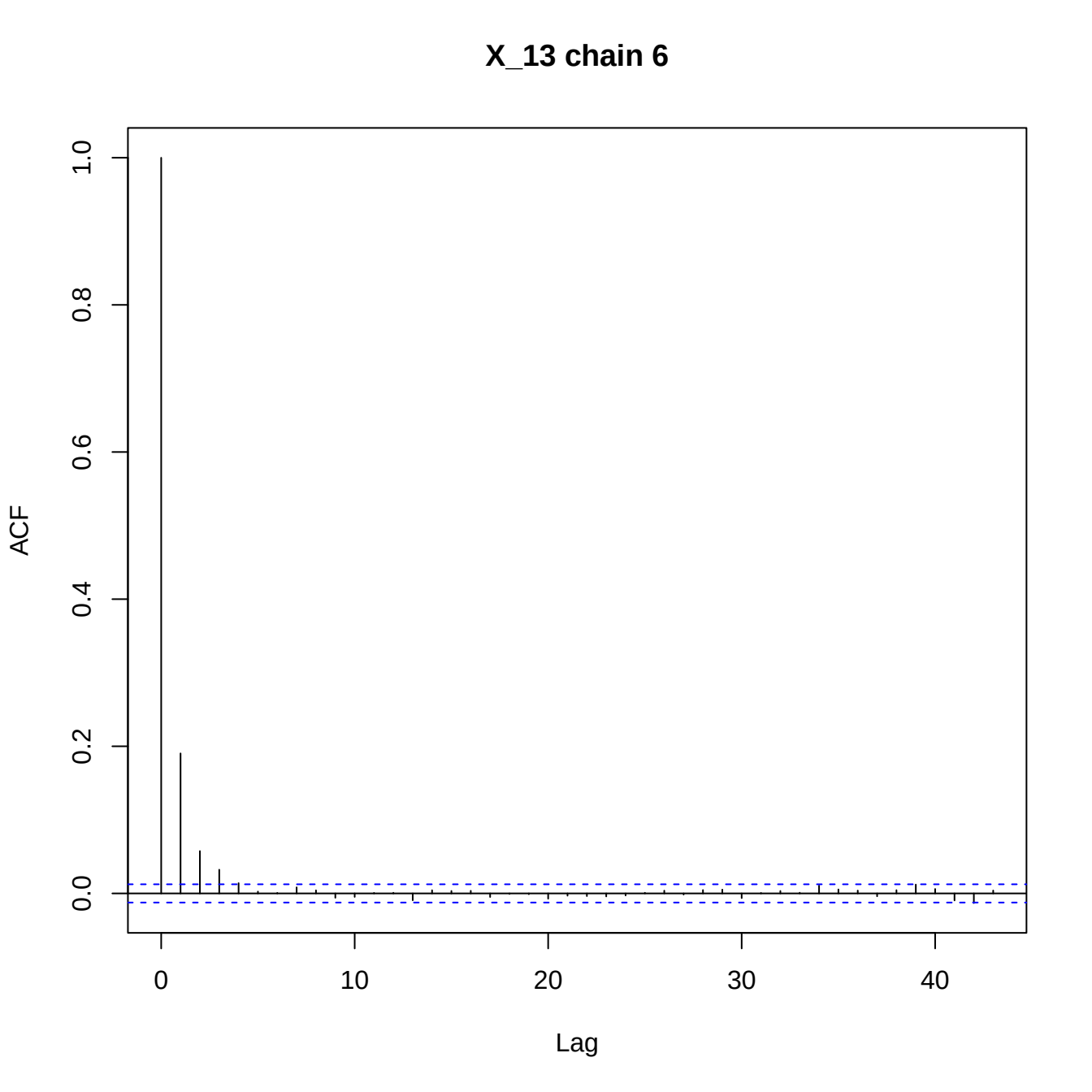
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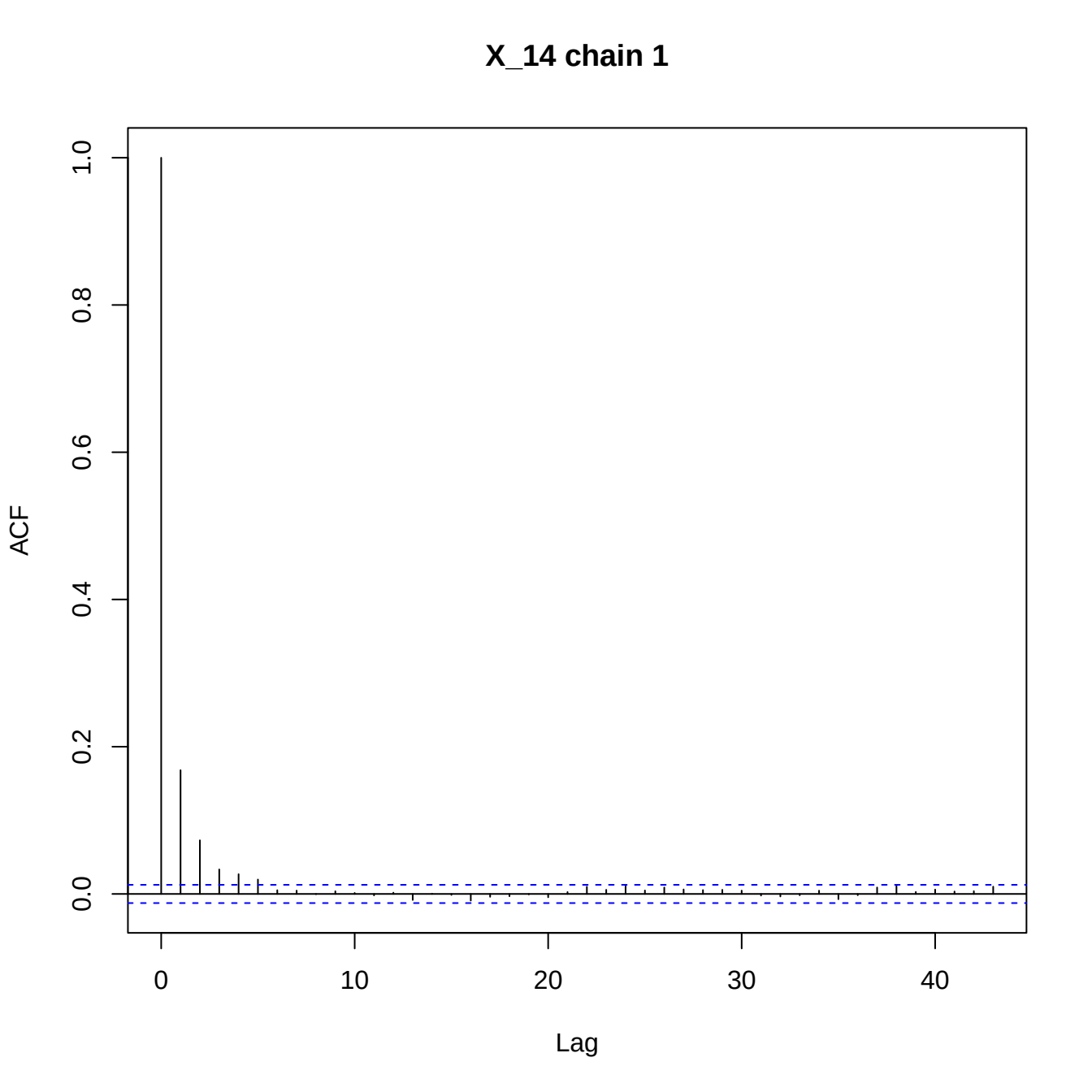
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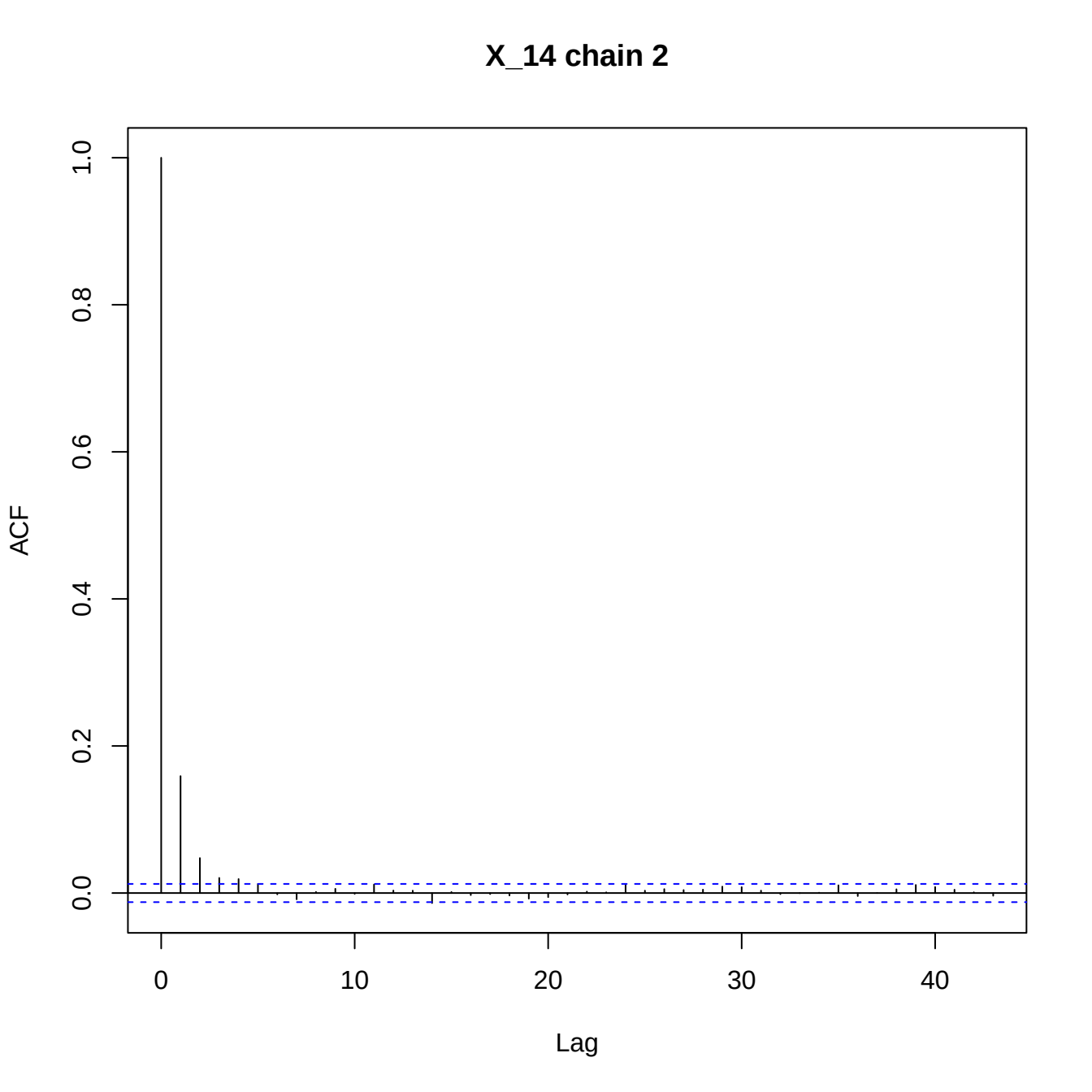
Lag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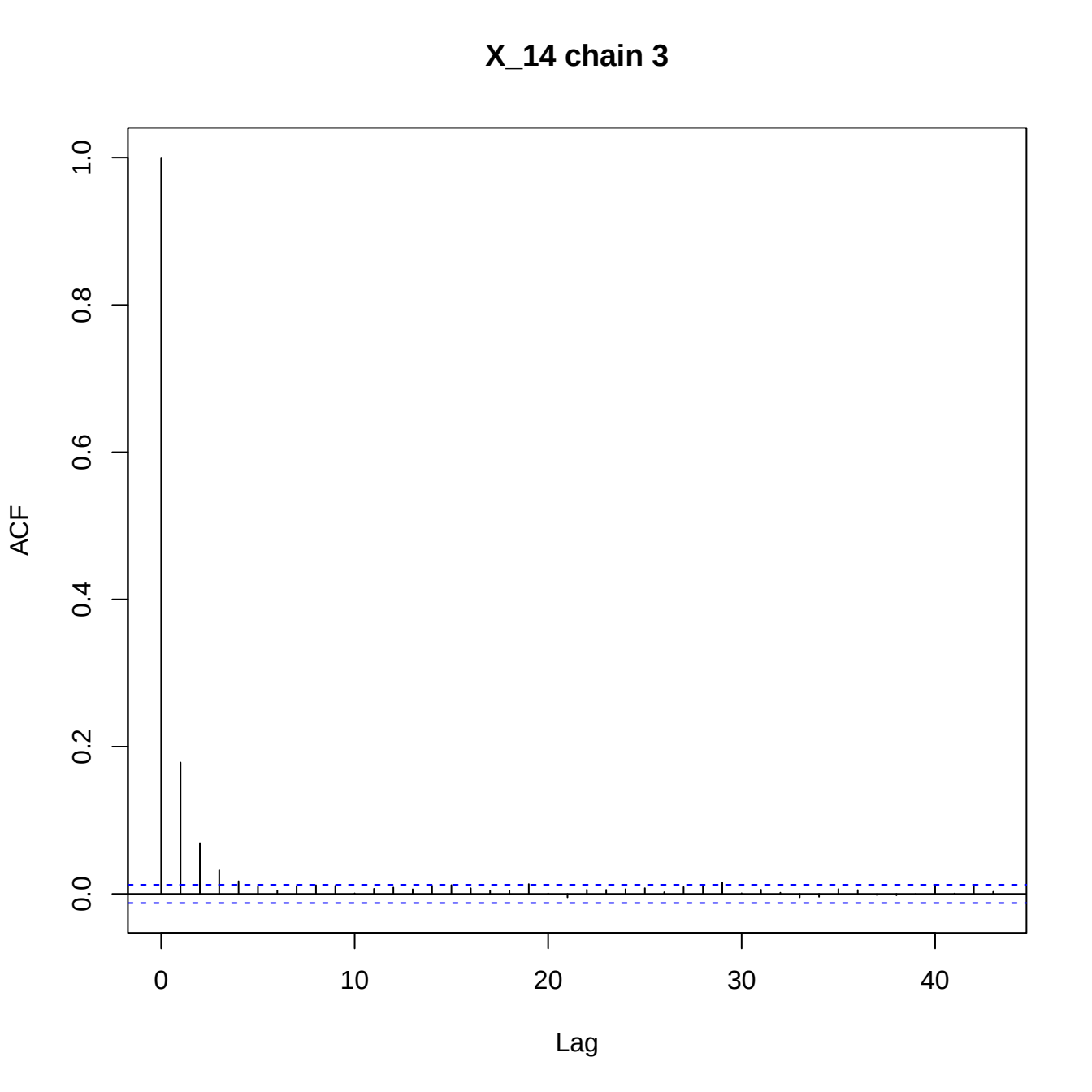
Lag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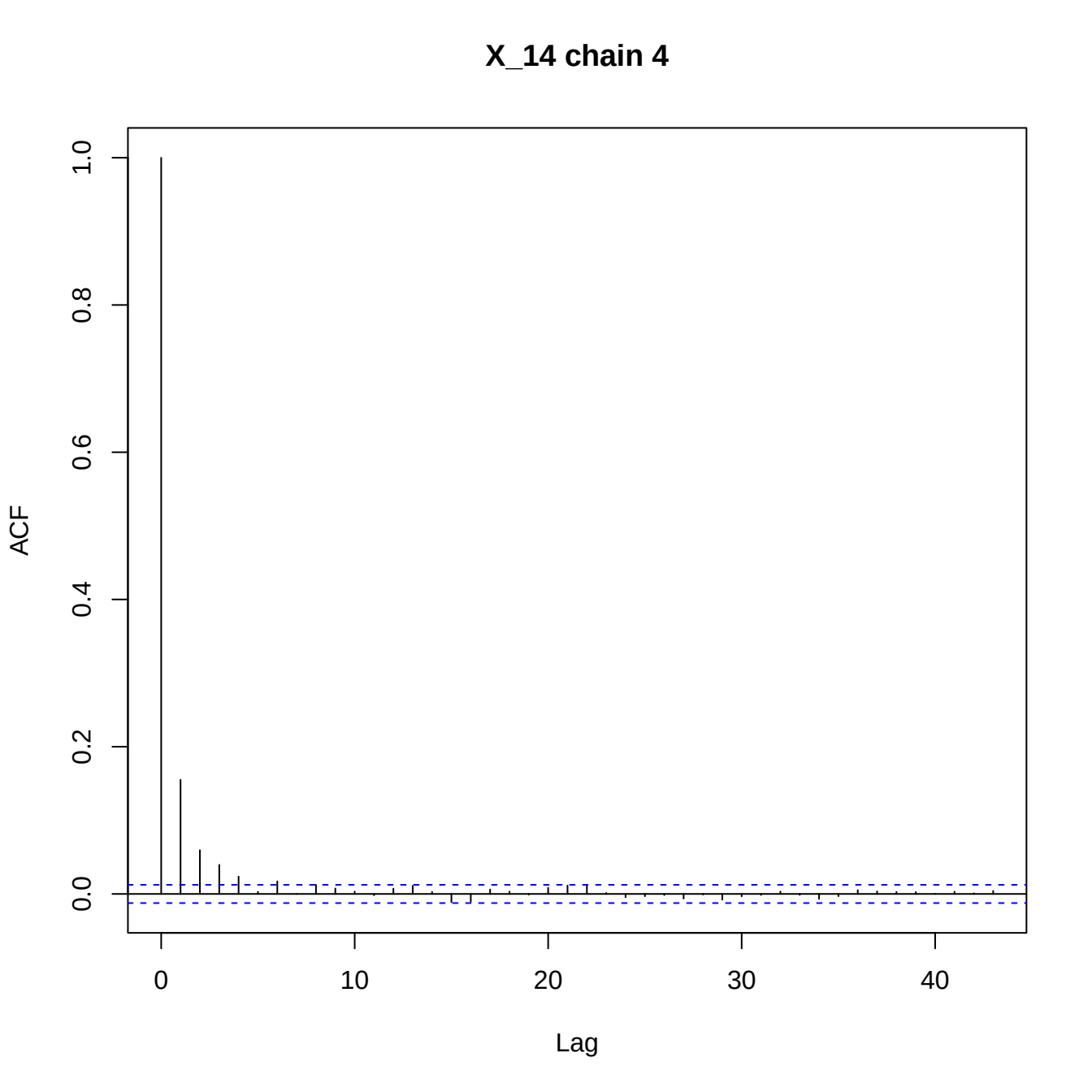
Lag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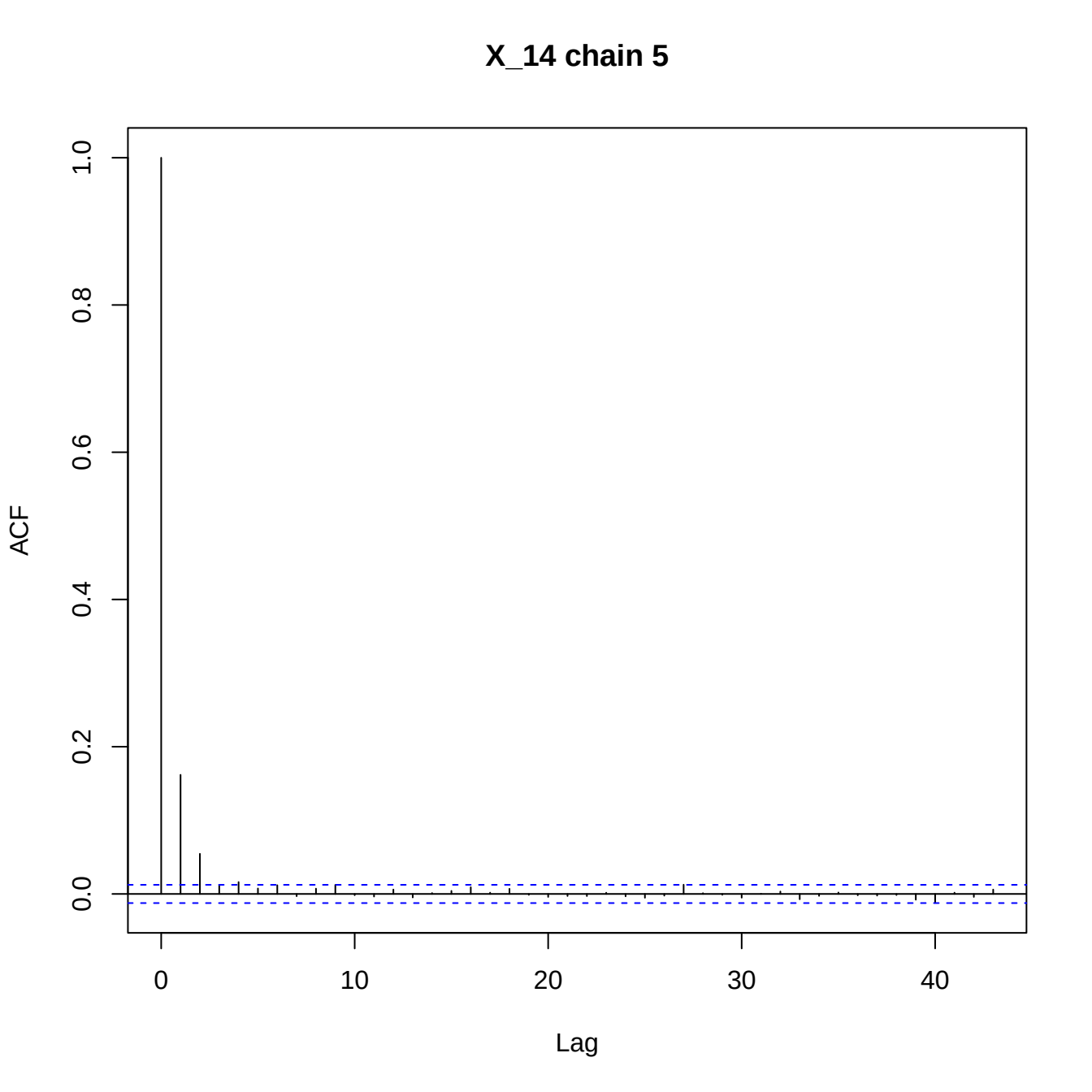
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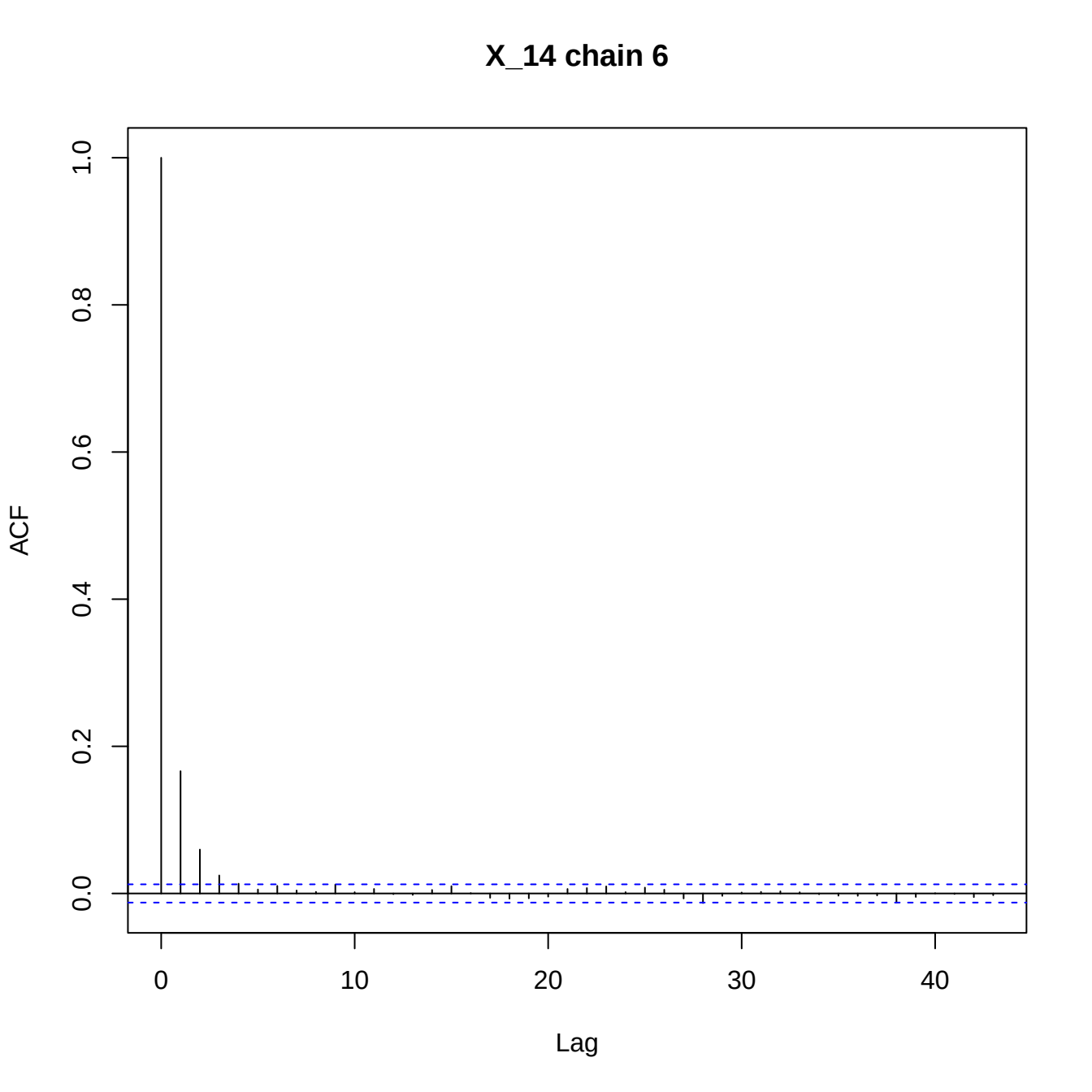
Lag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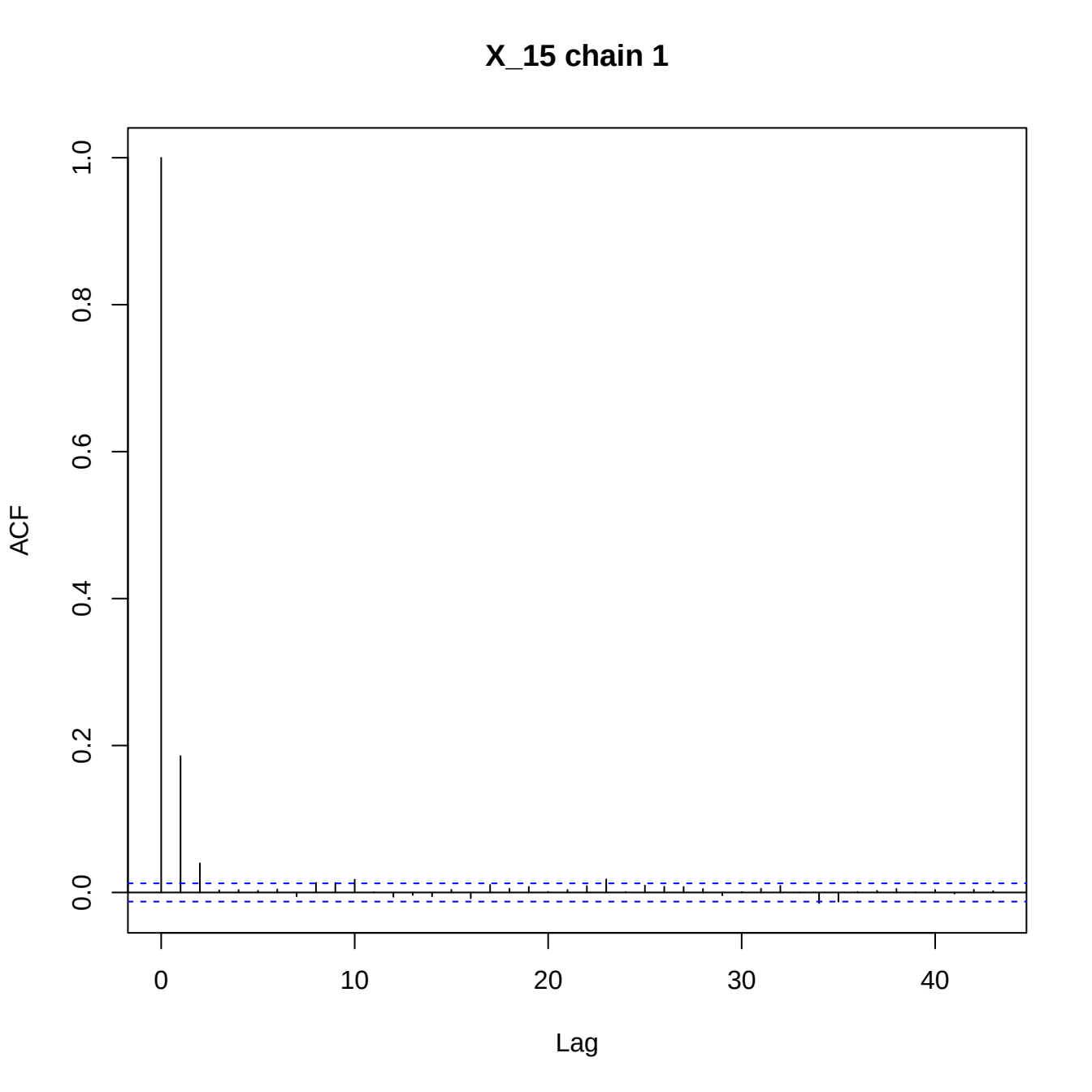
Lag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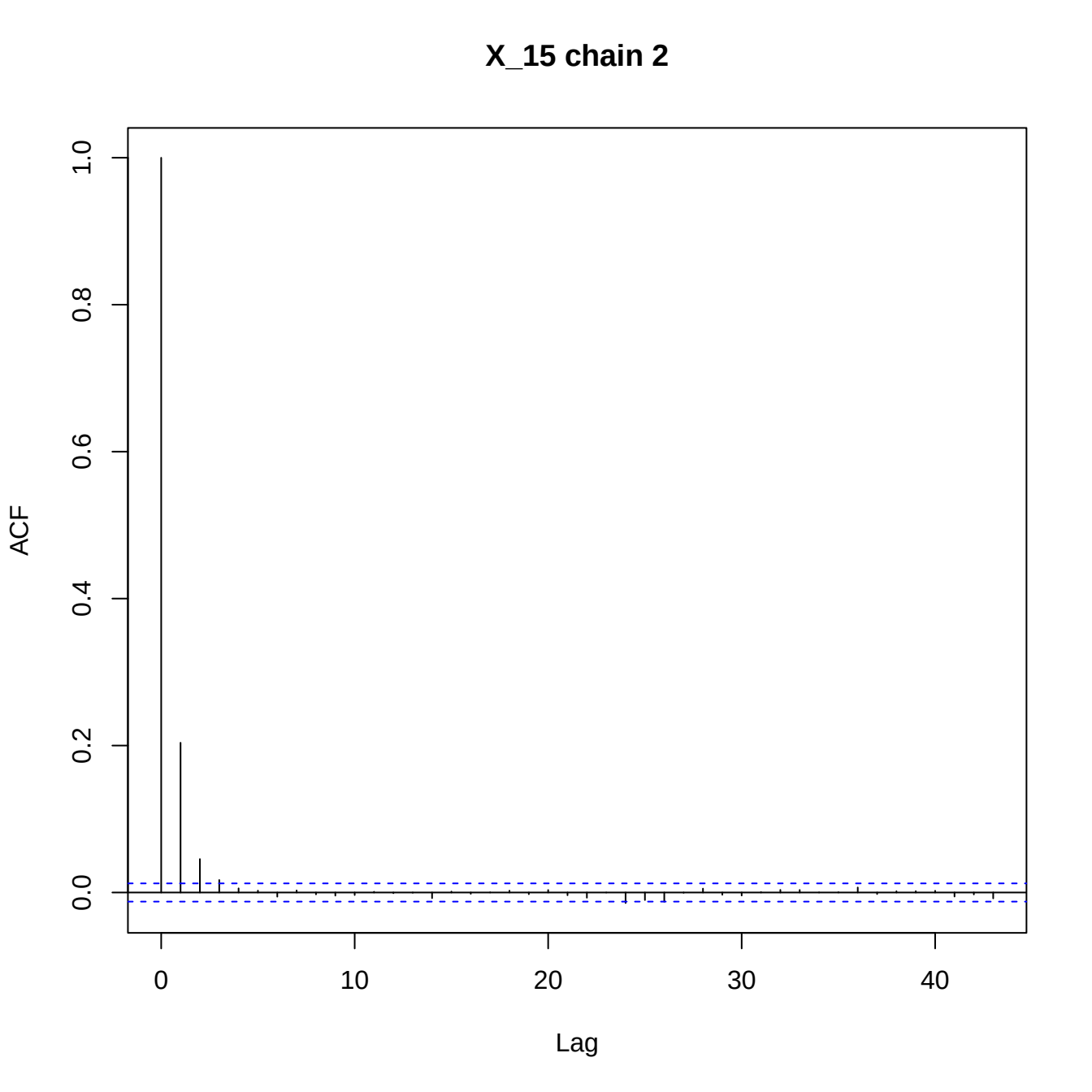
Lag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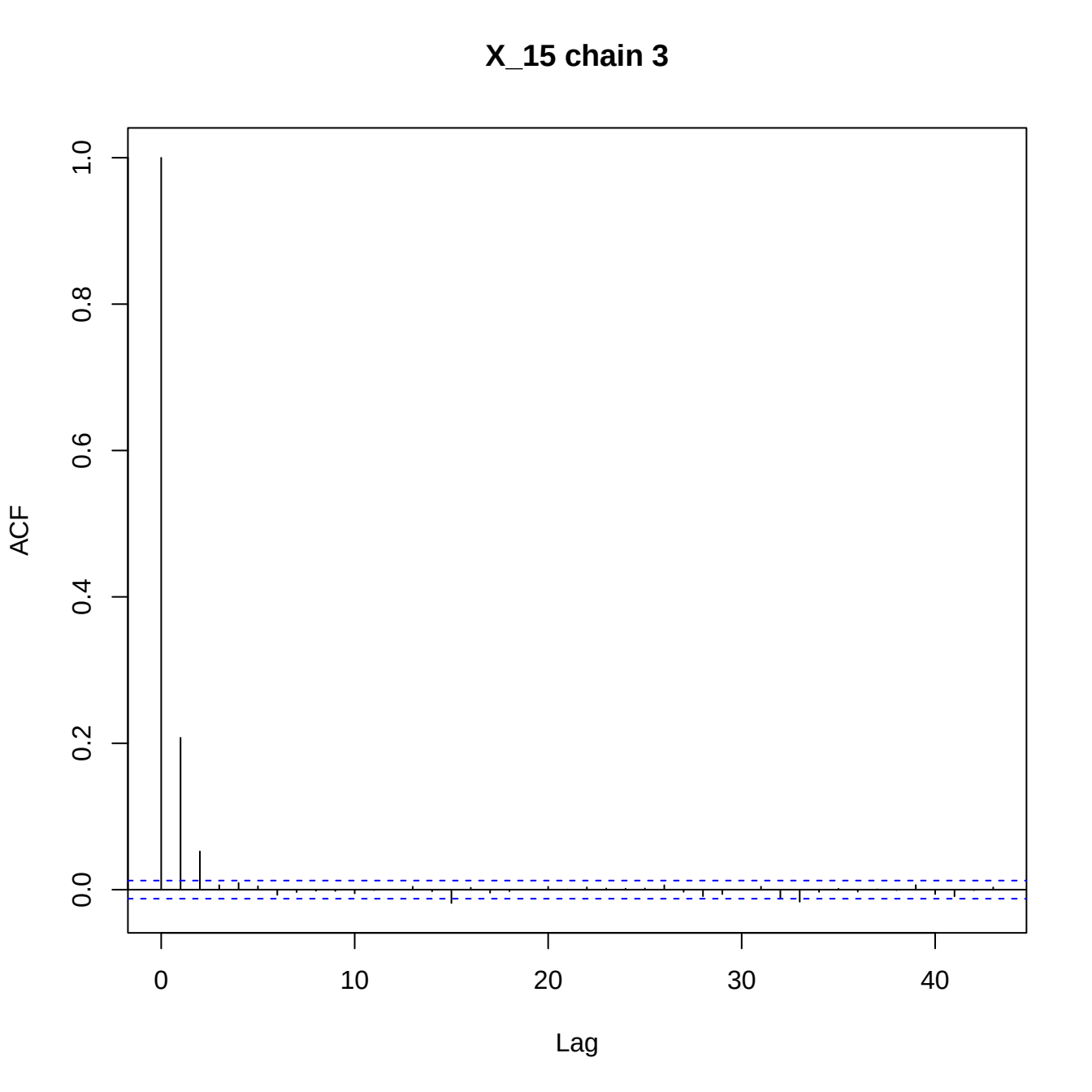
Lag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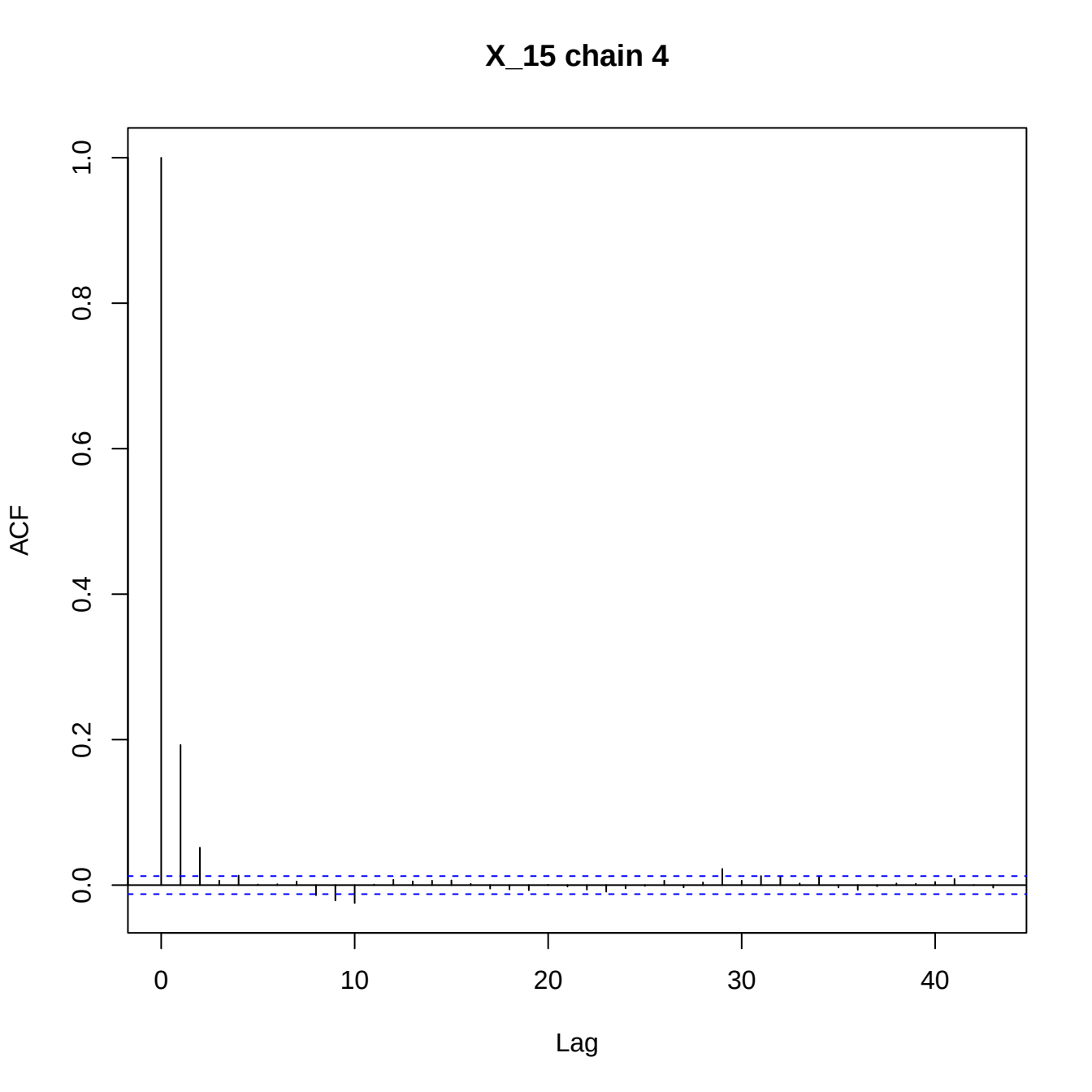
Lag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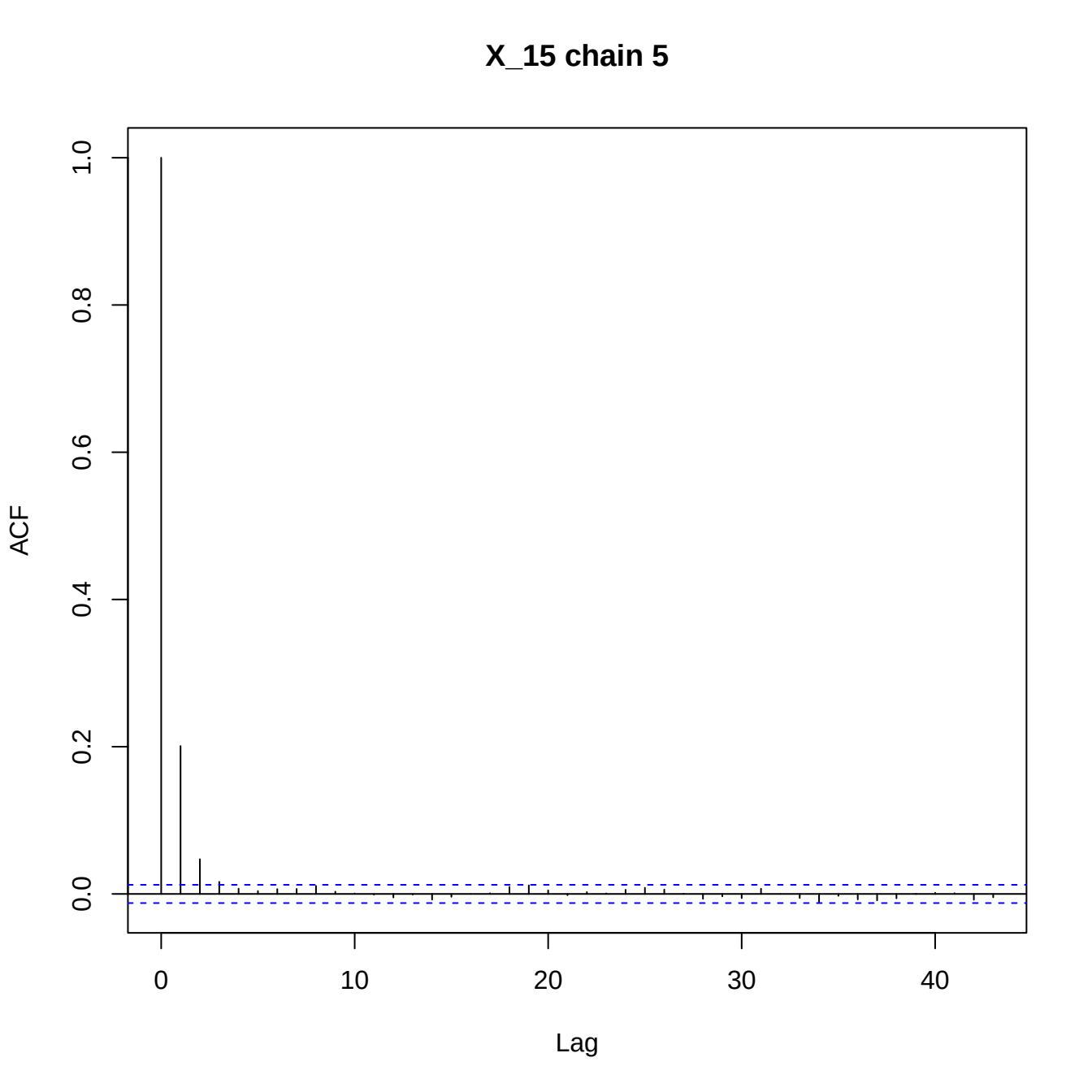
Lag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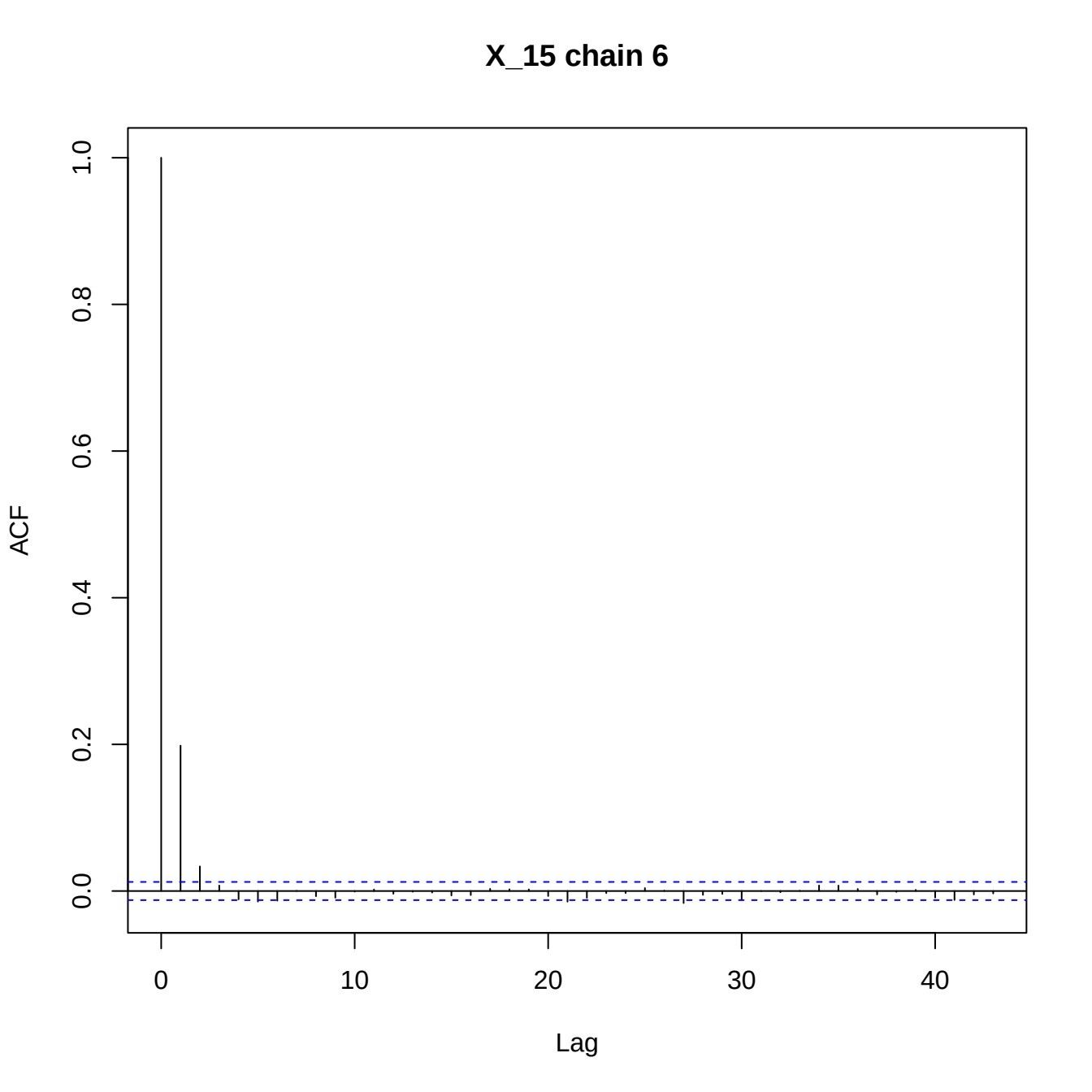
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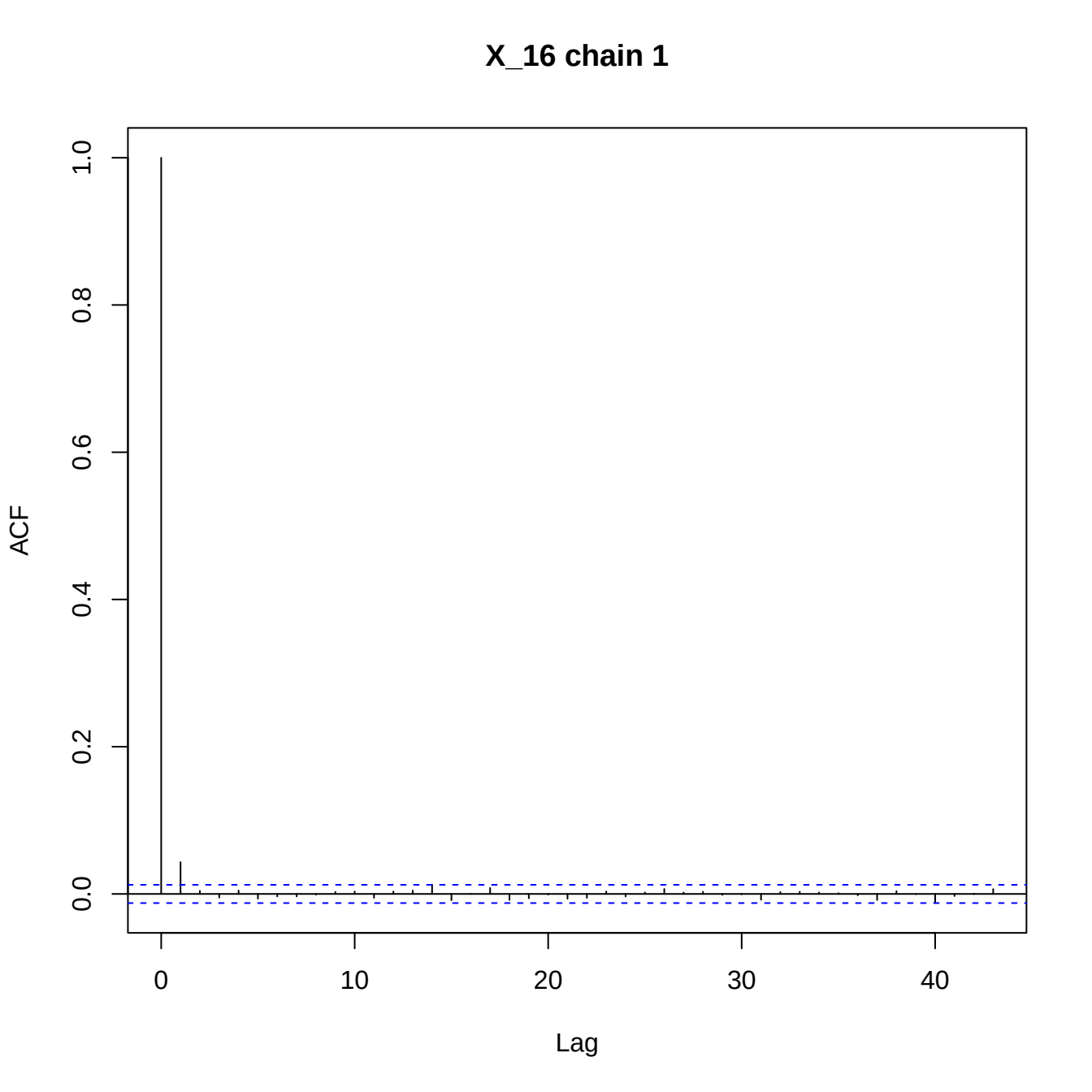
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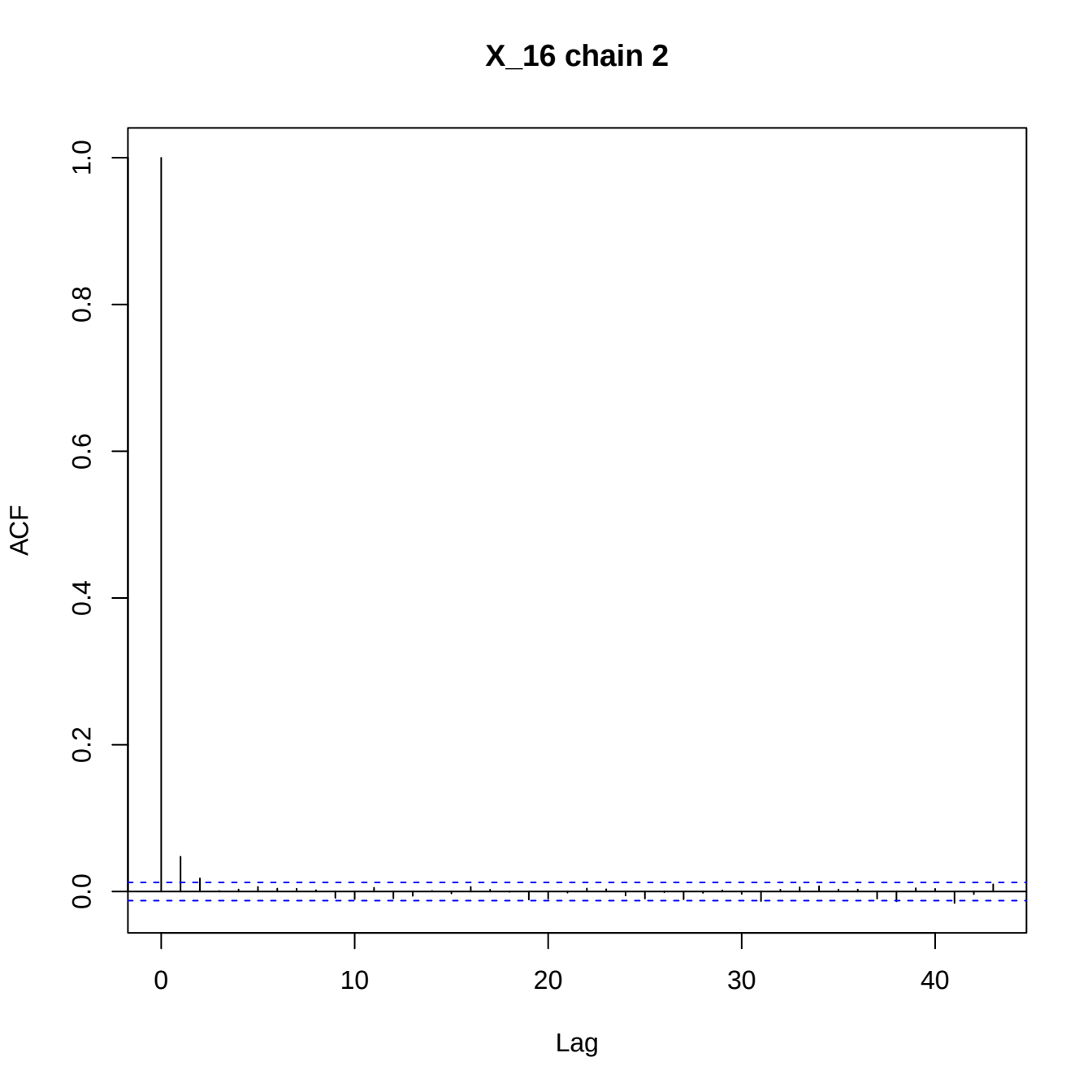
Lag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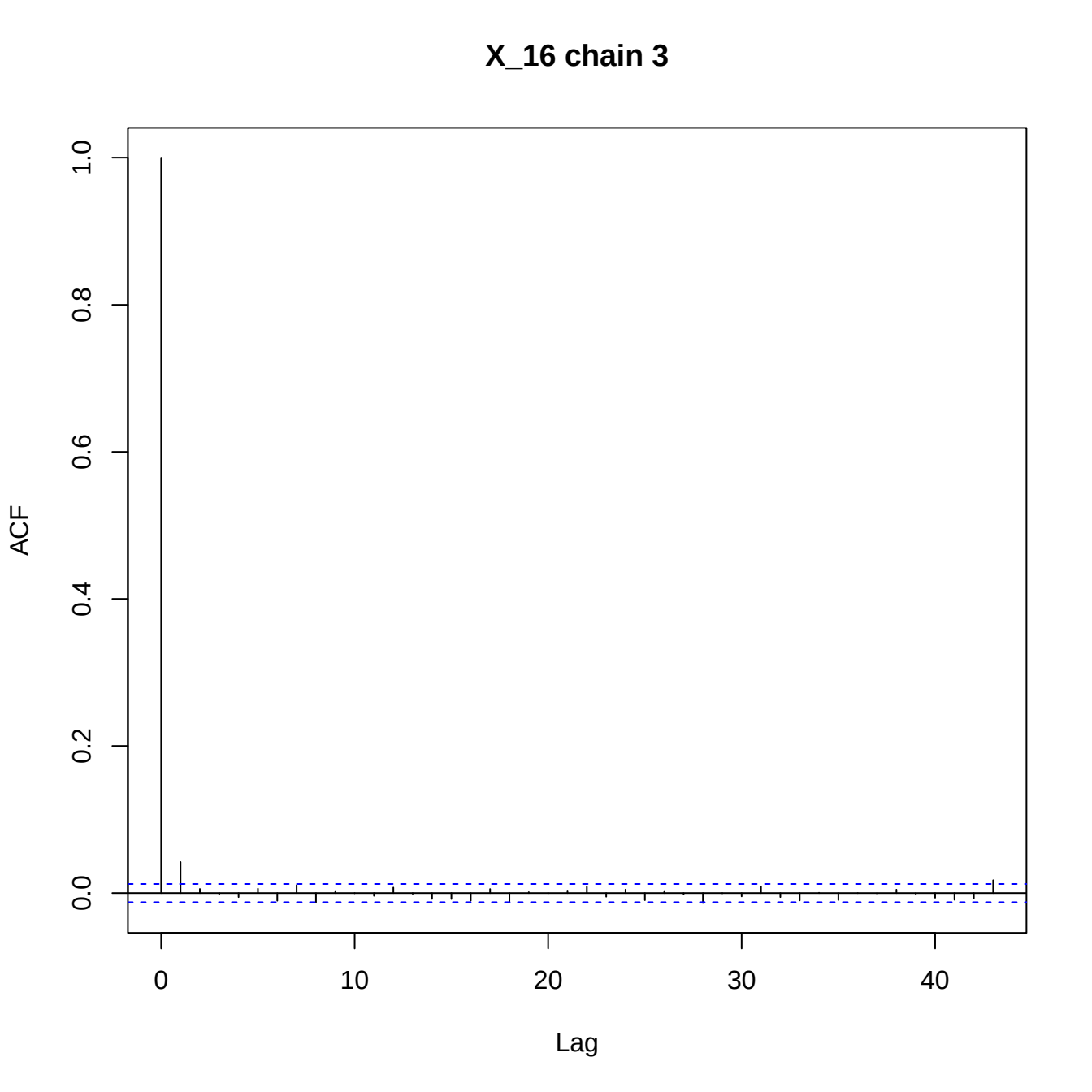
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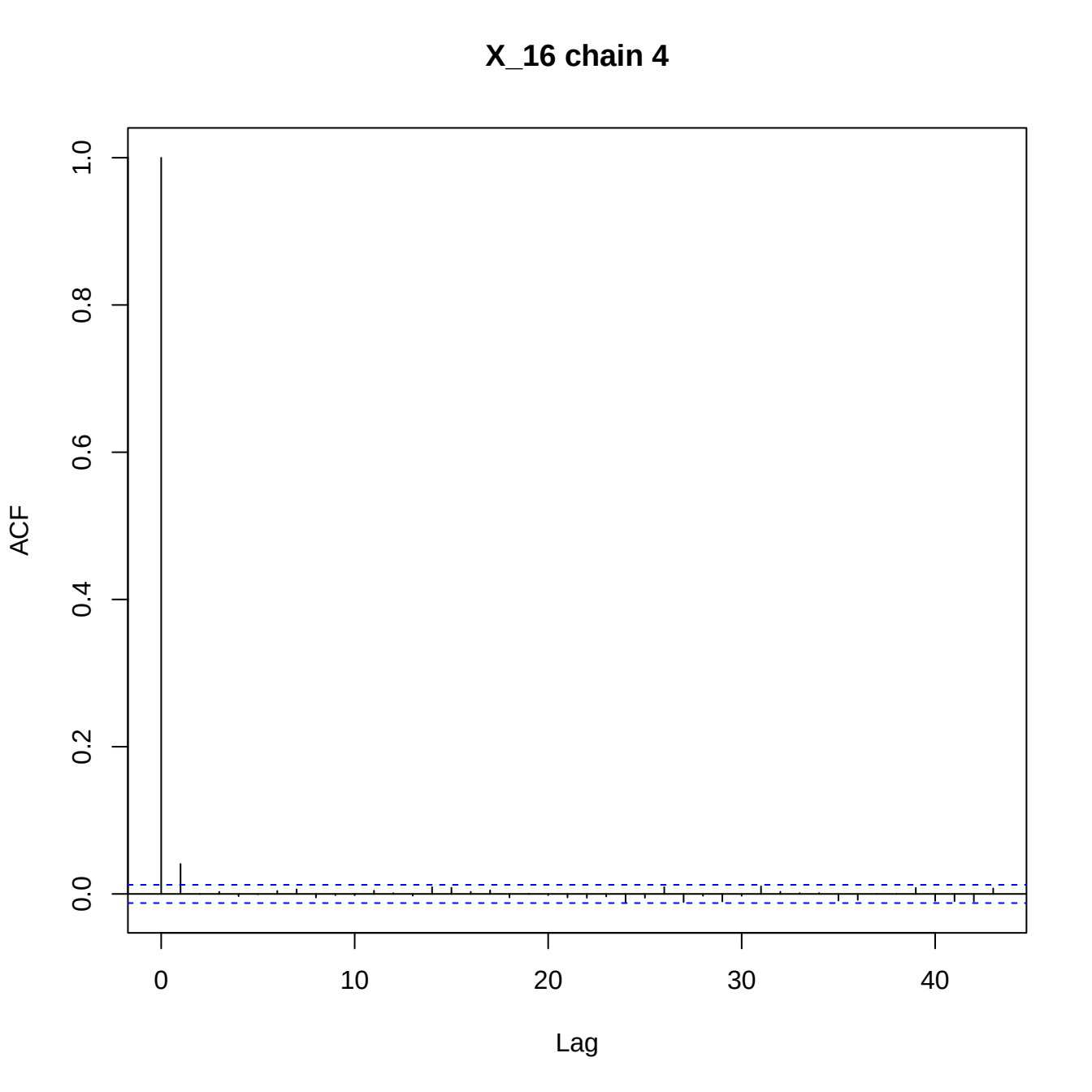
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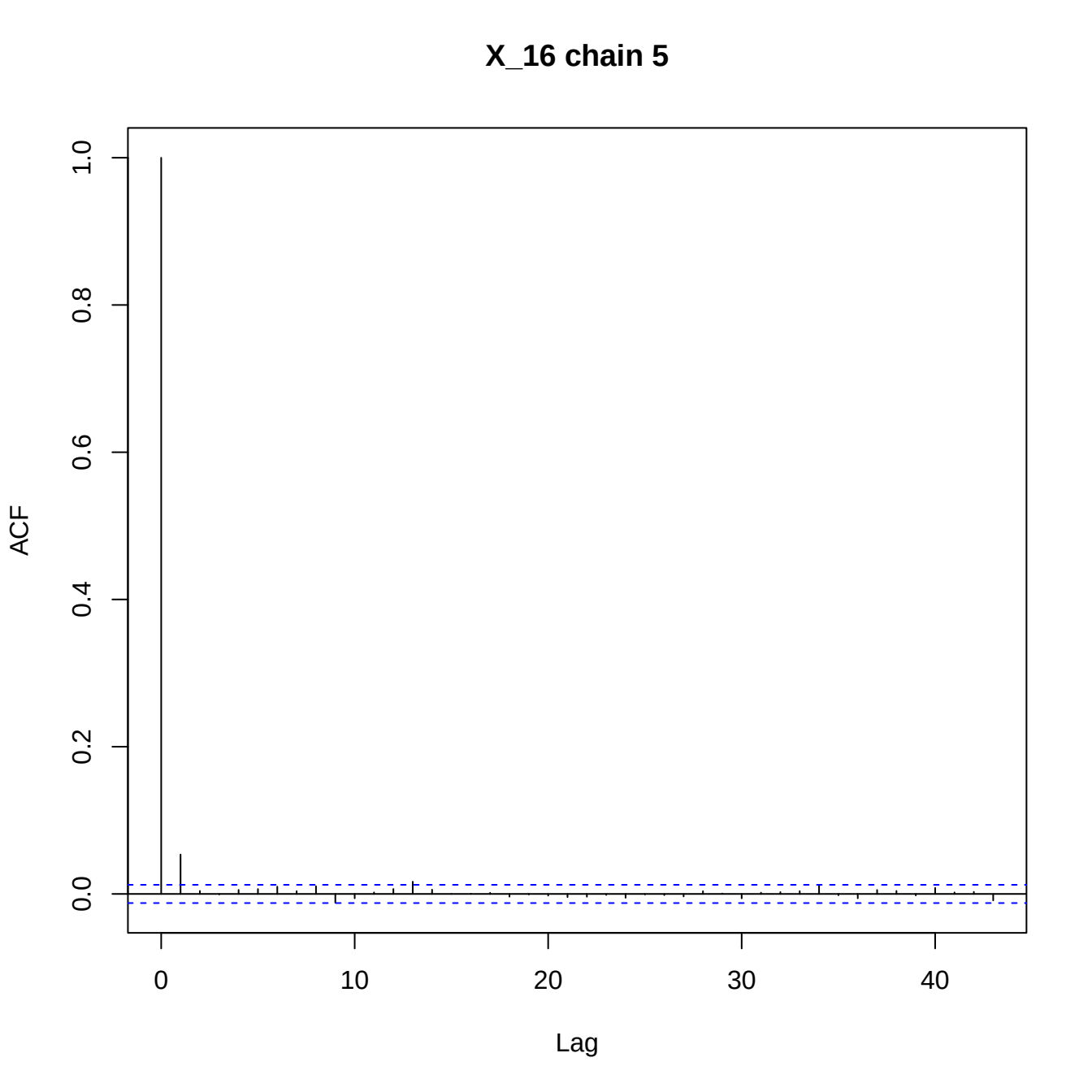
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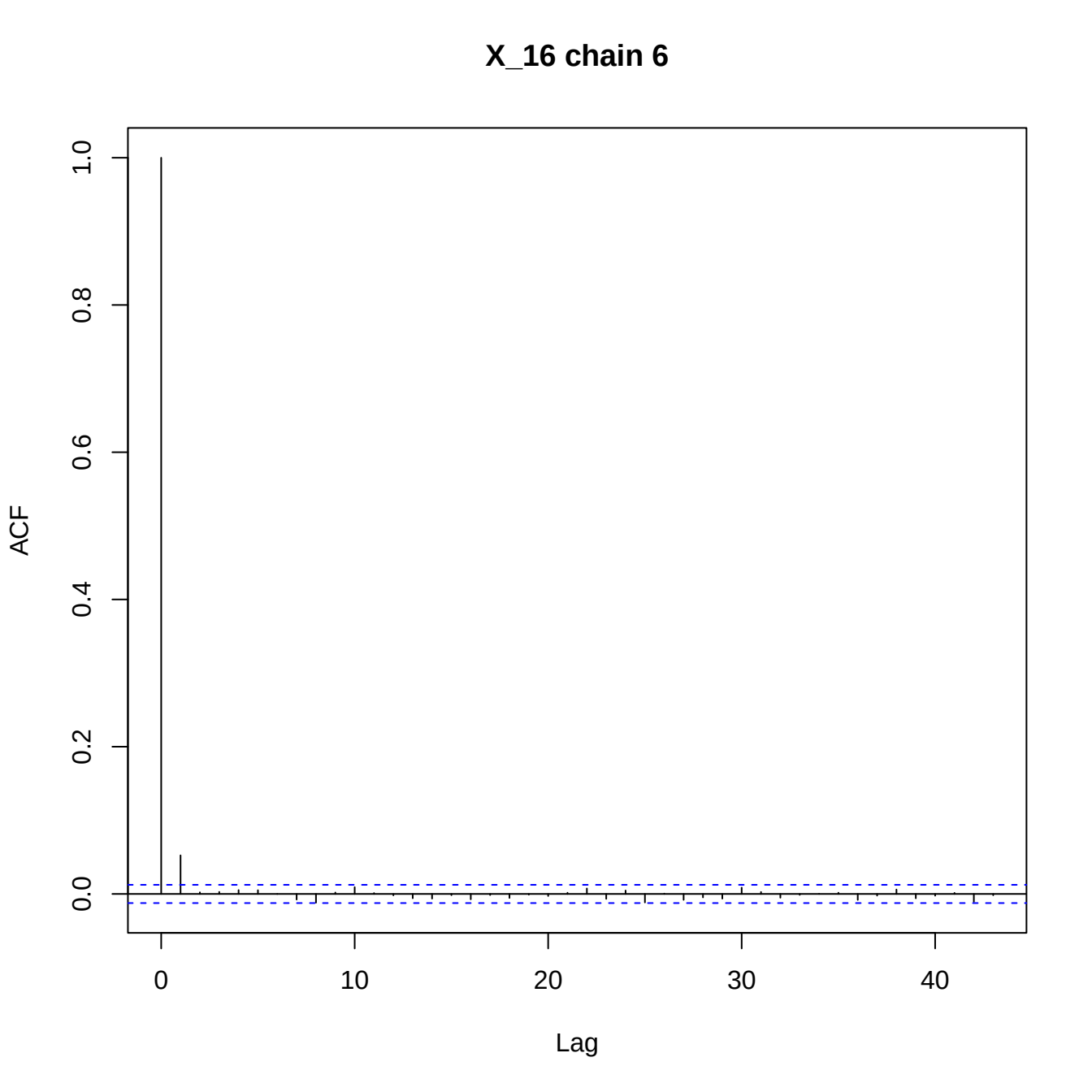
Lag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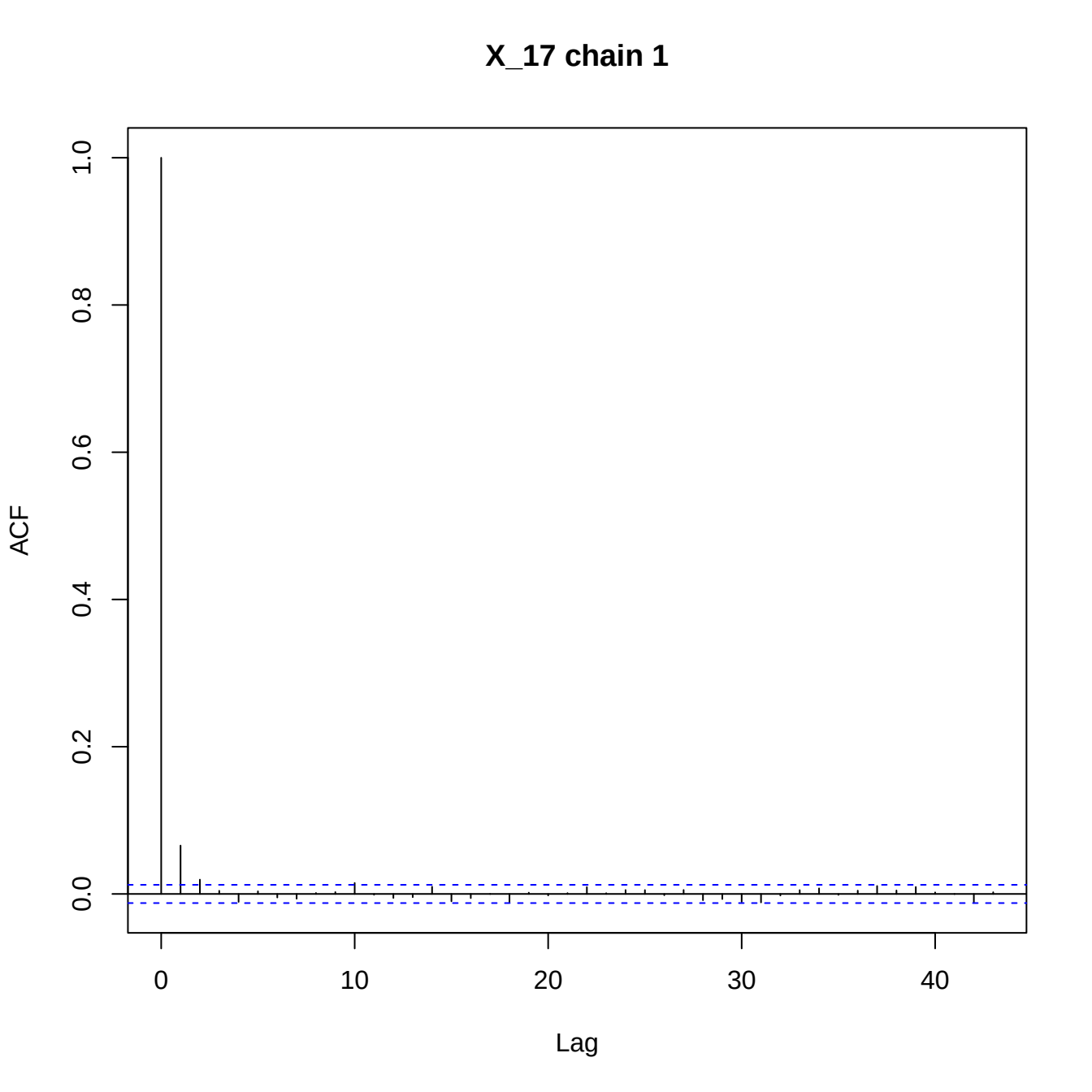
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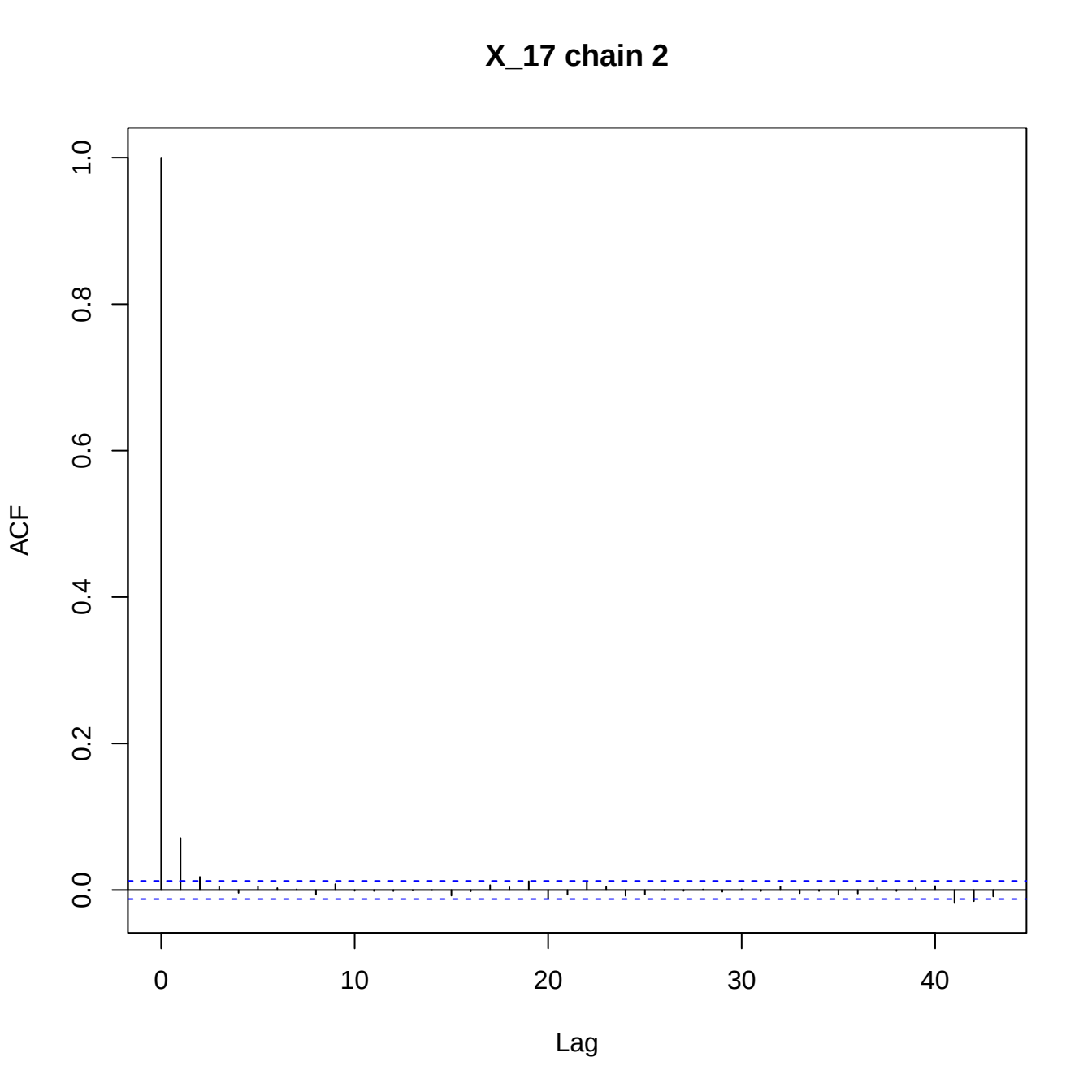
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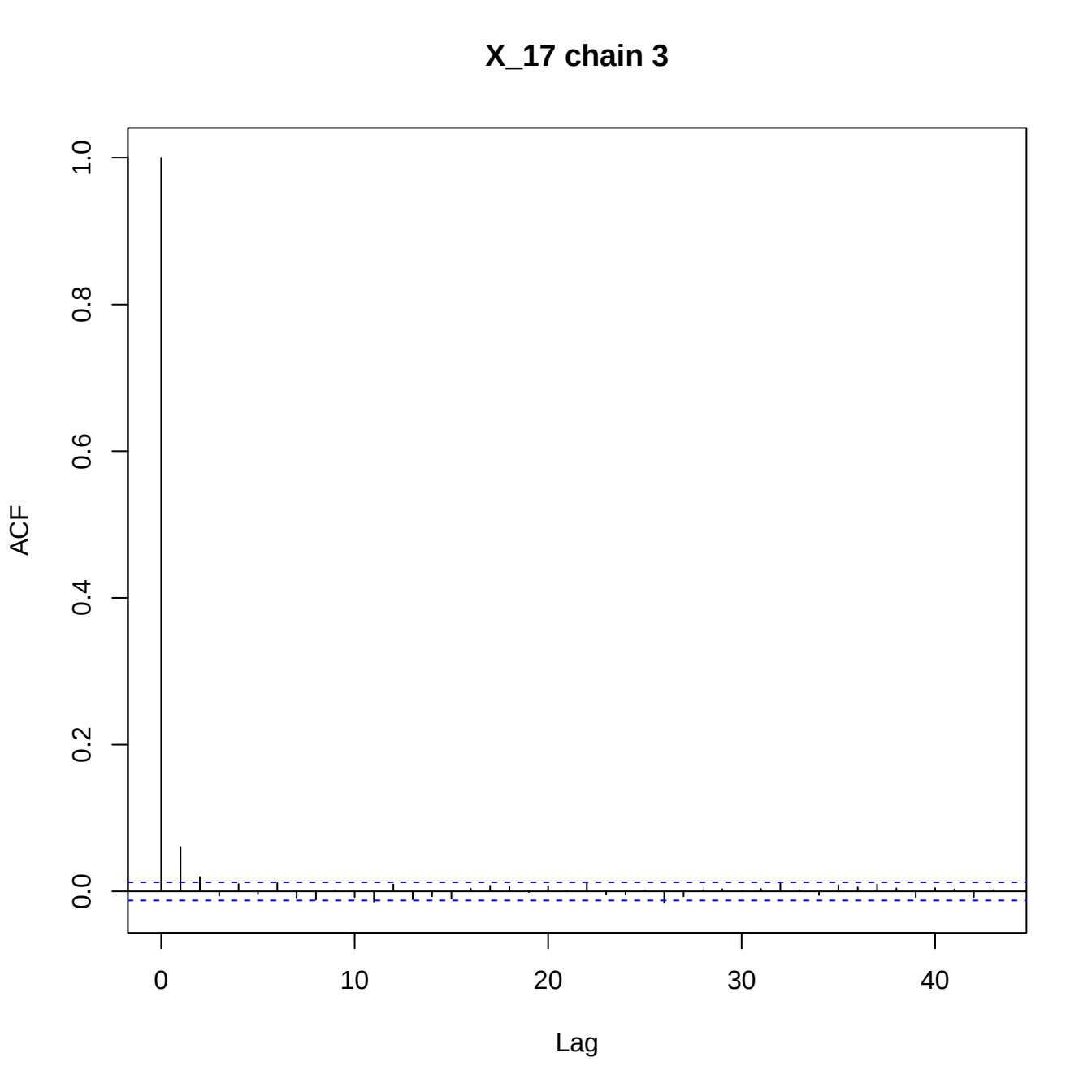
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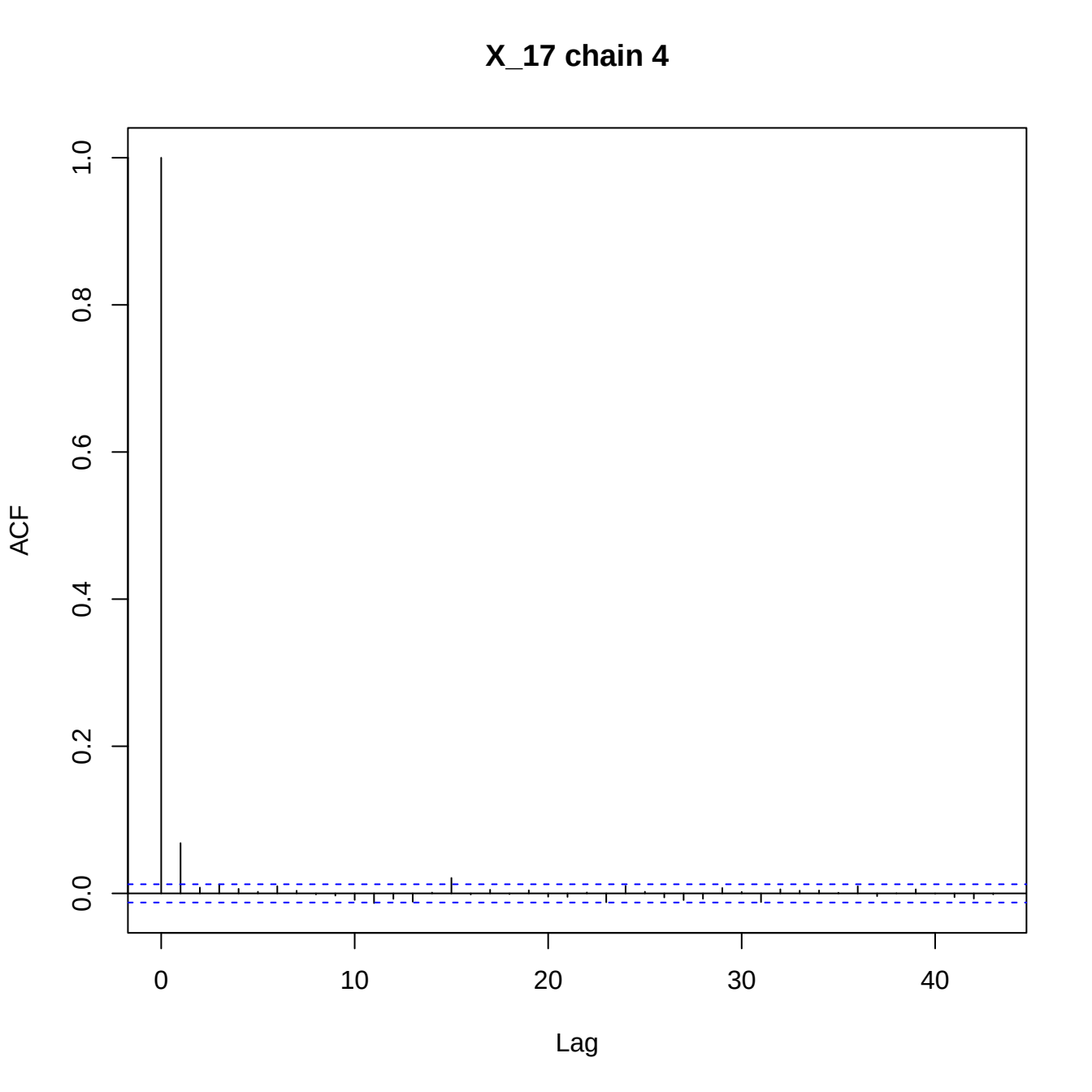
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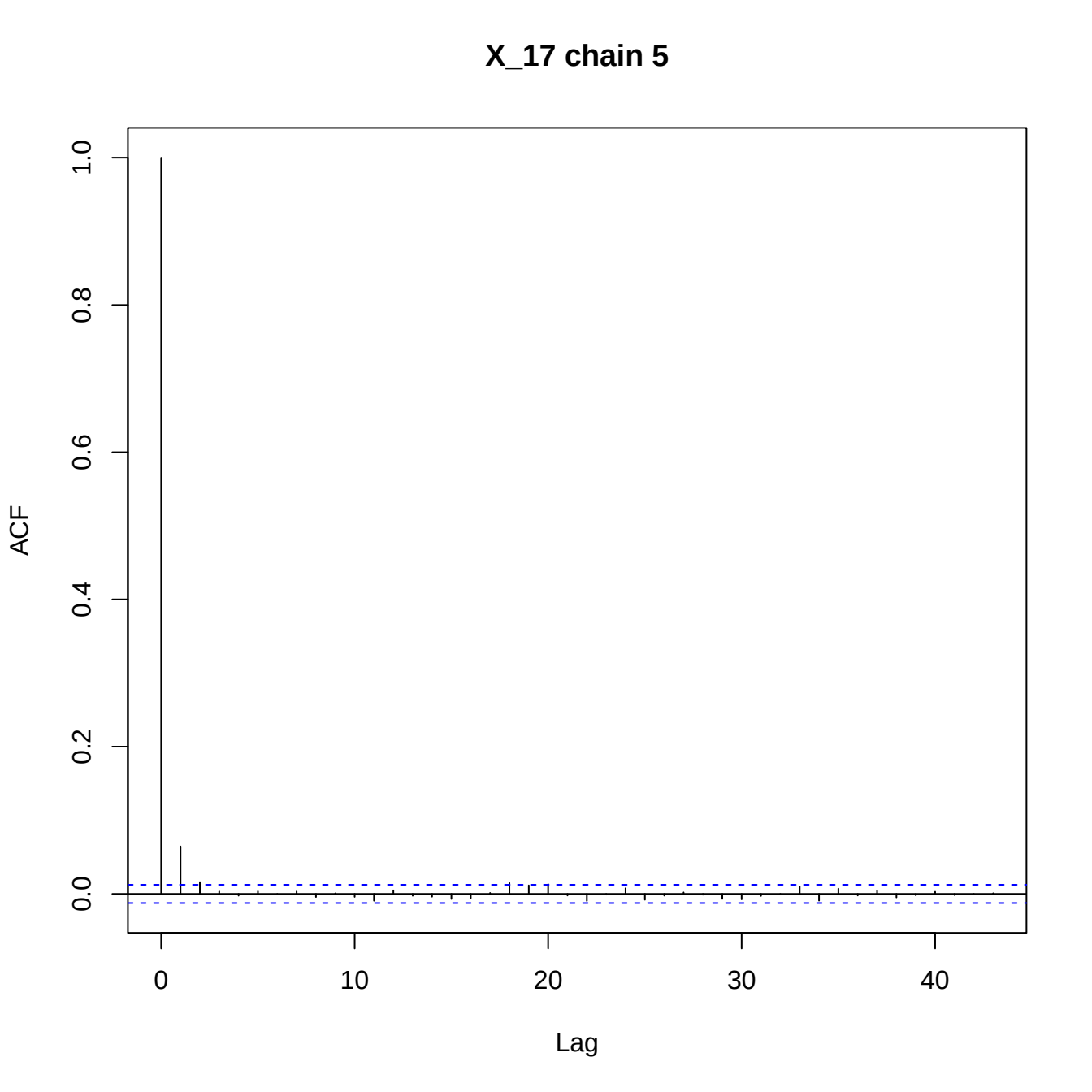
Lag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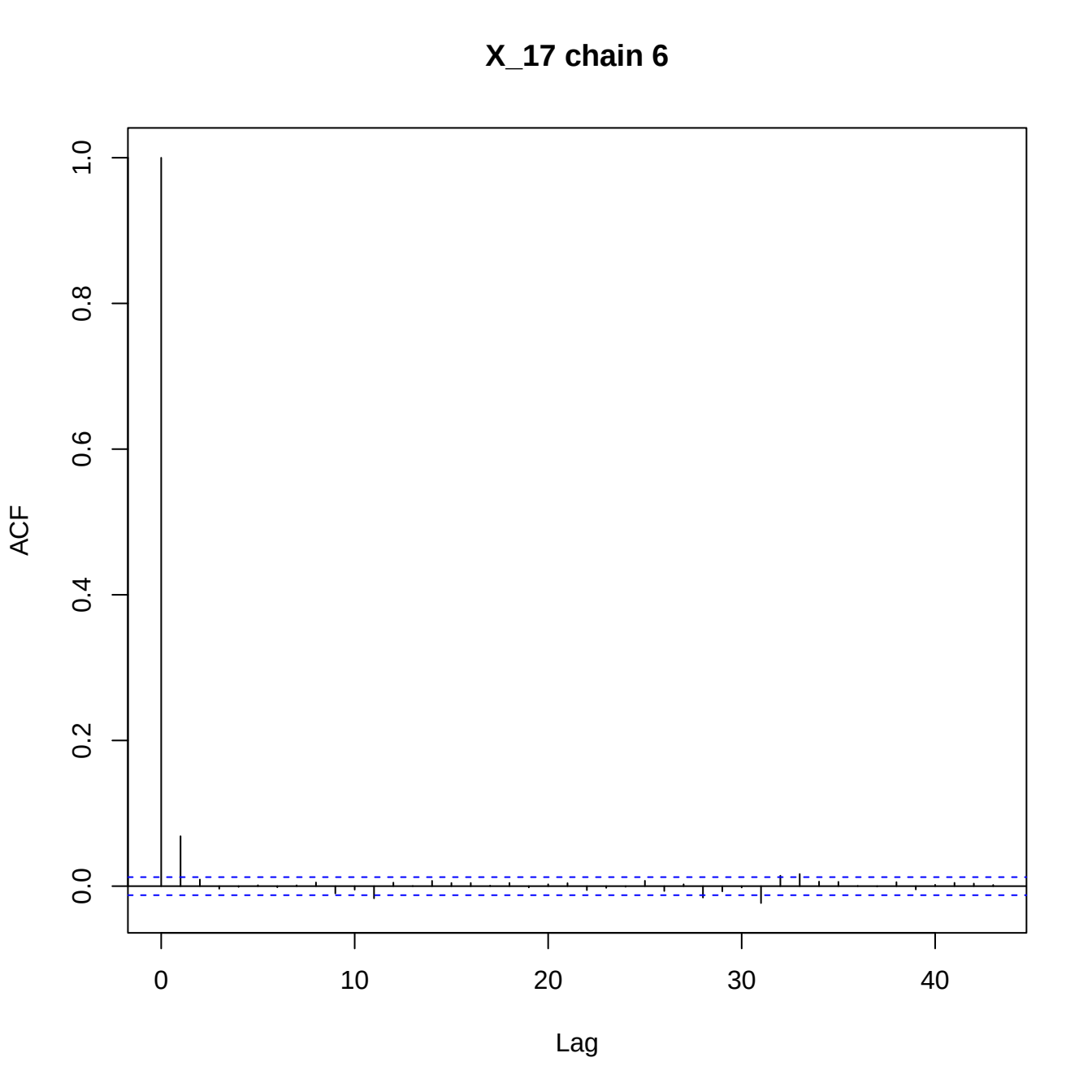
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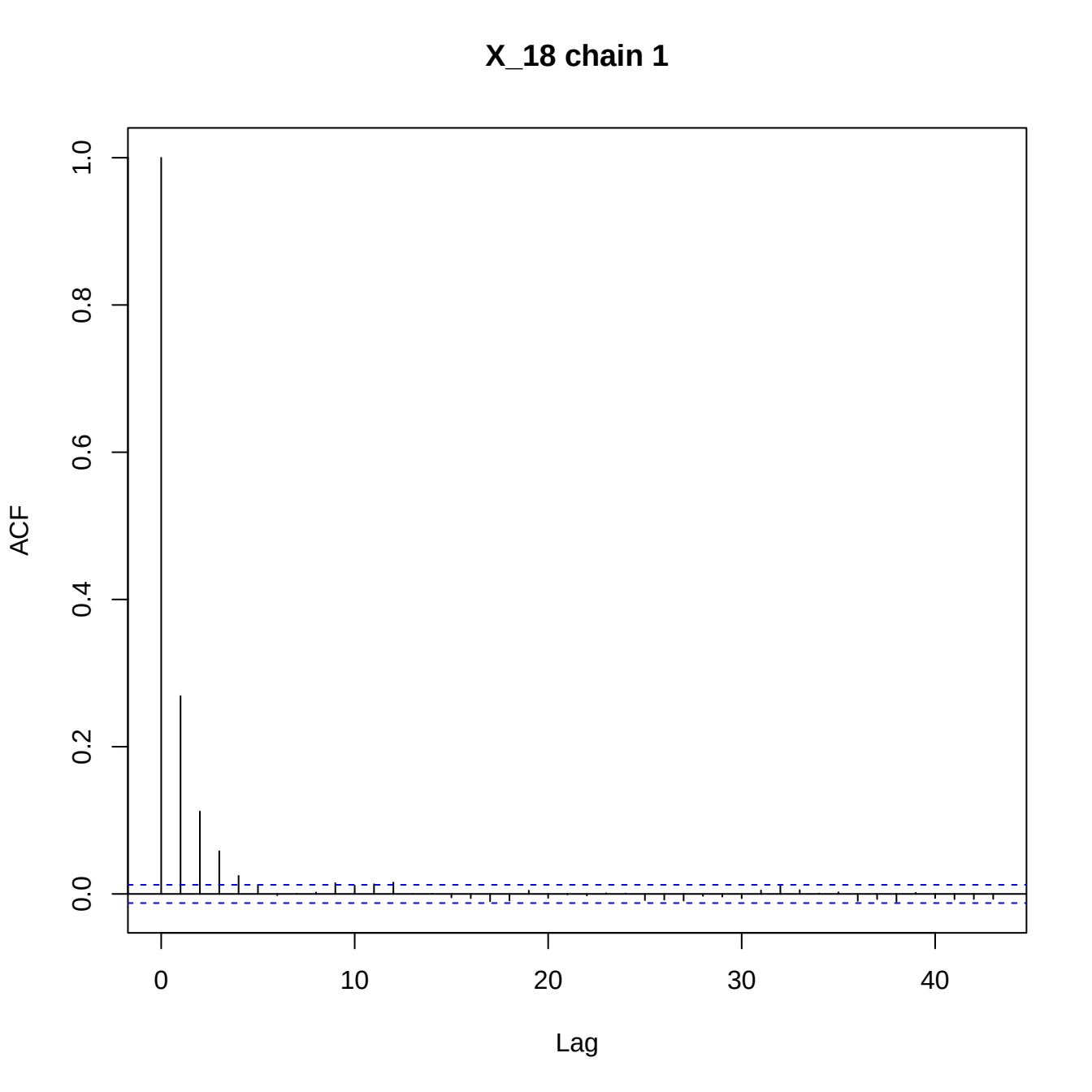
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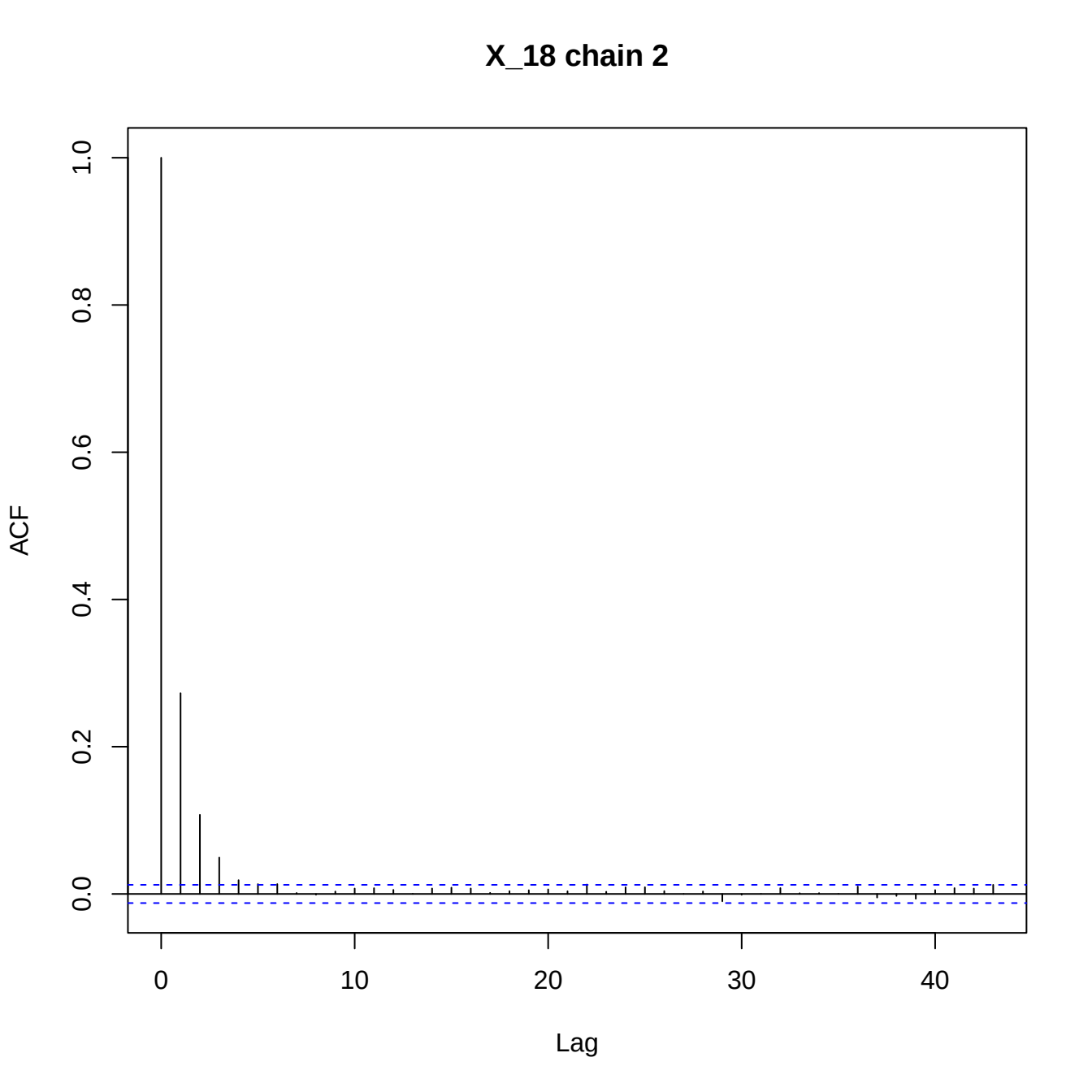
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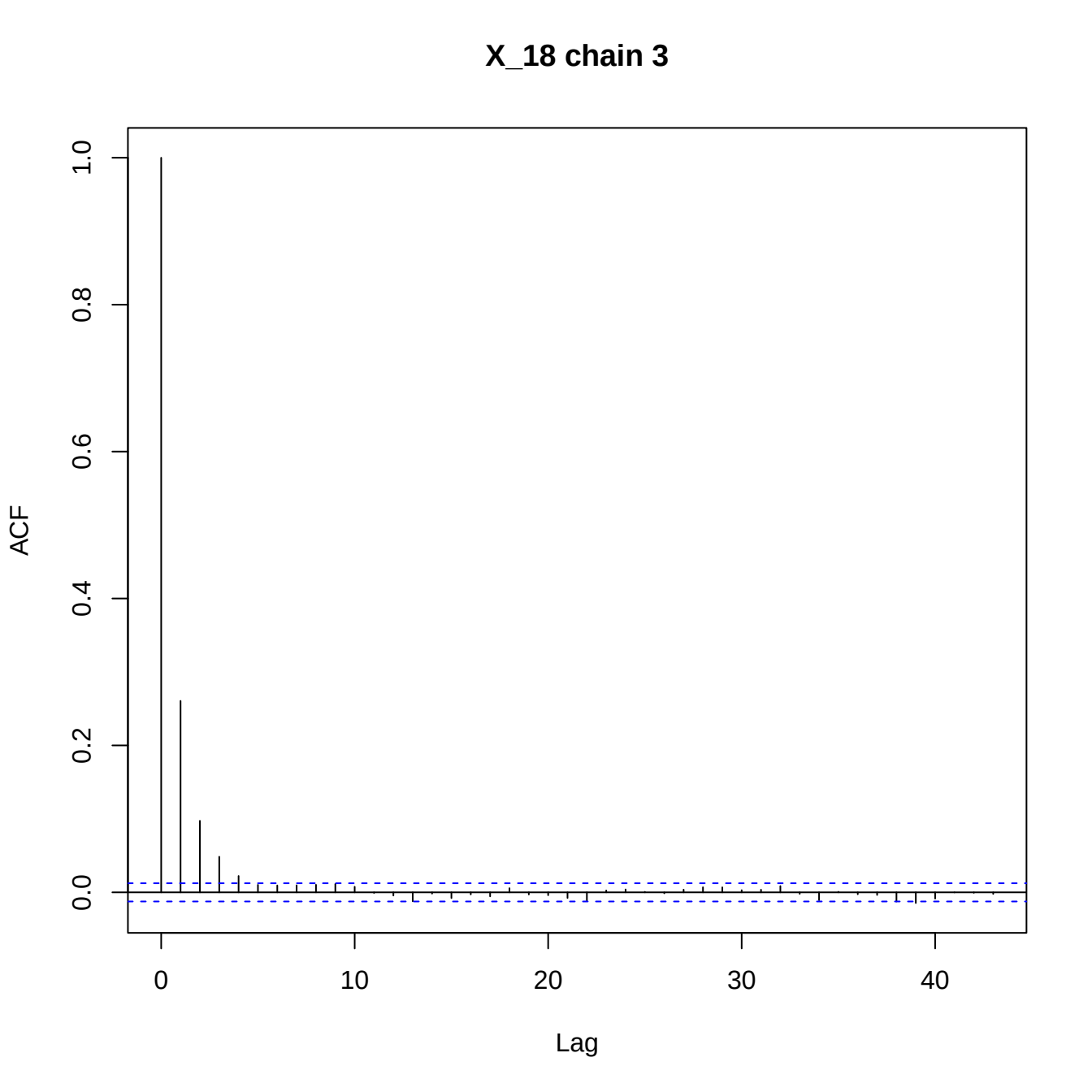
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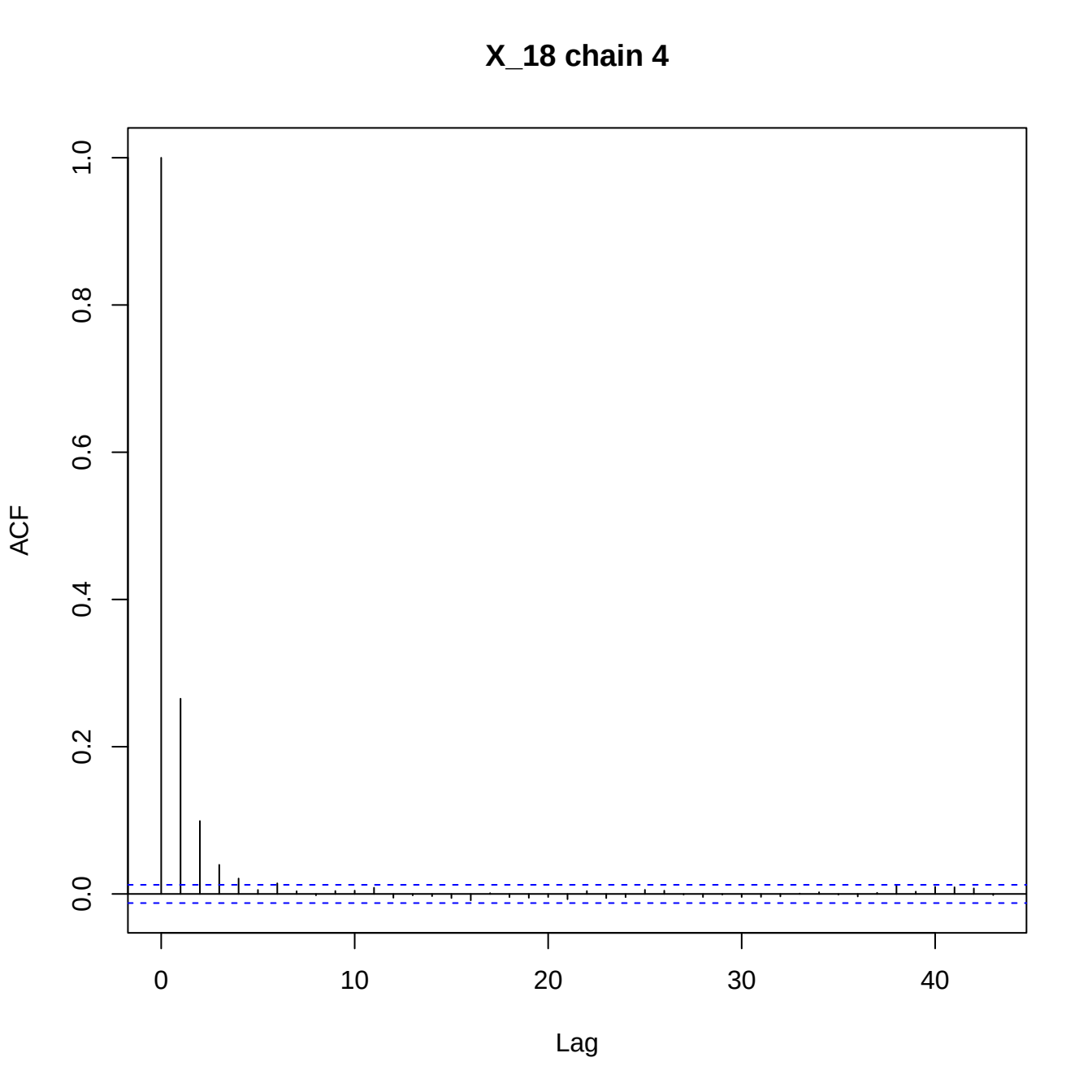
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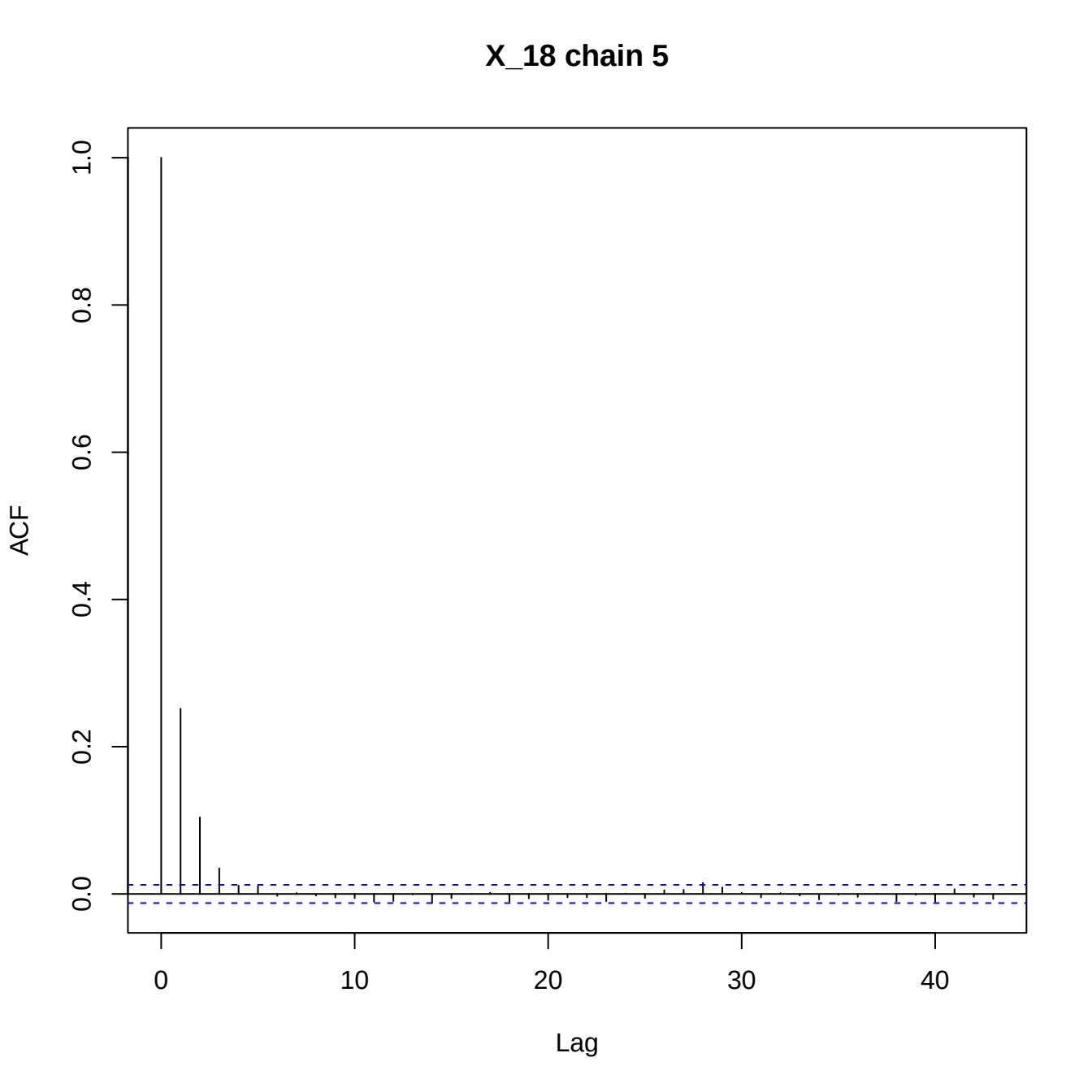
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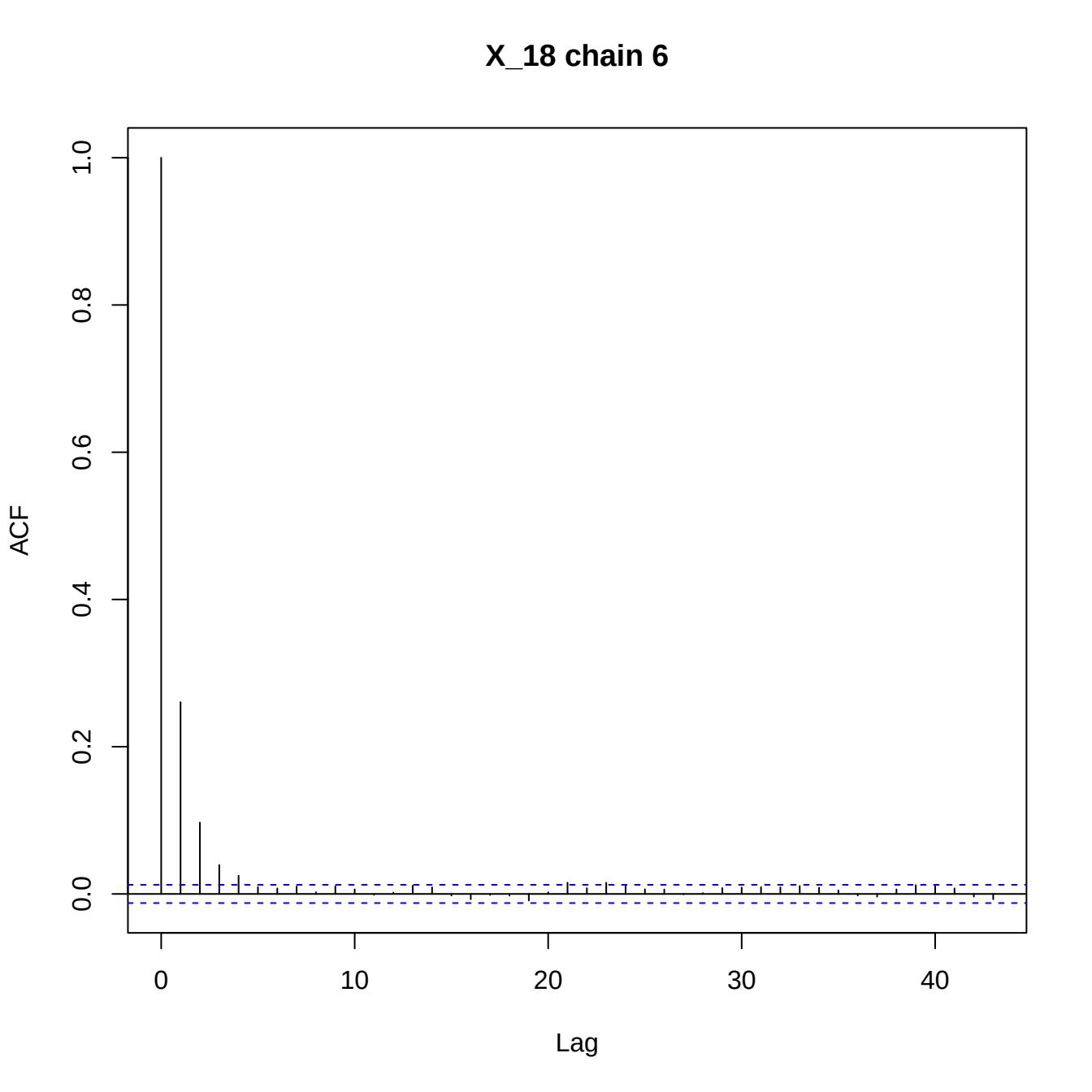
X_18 chain 6
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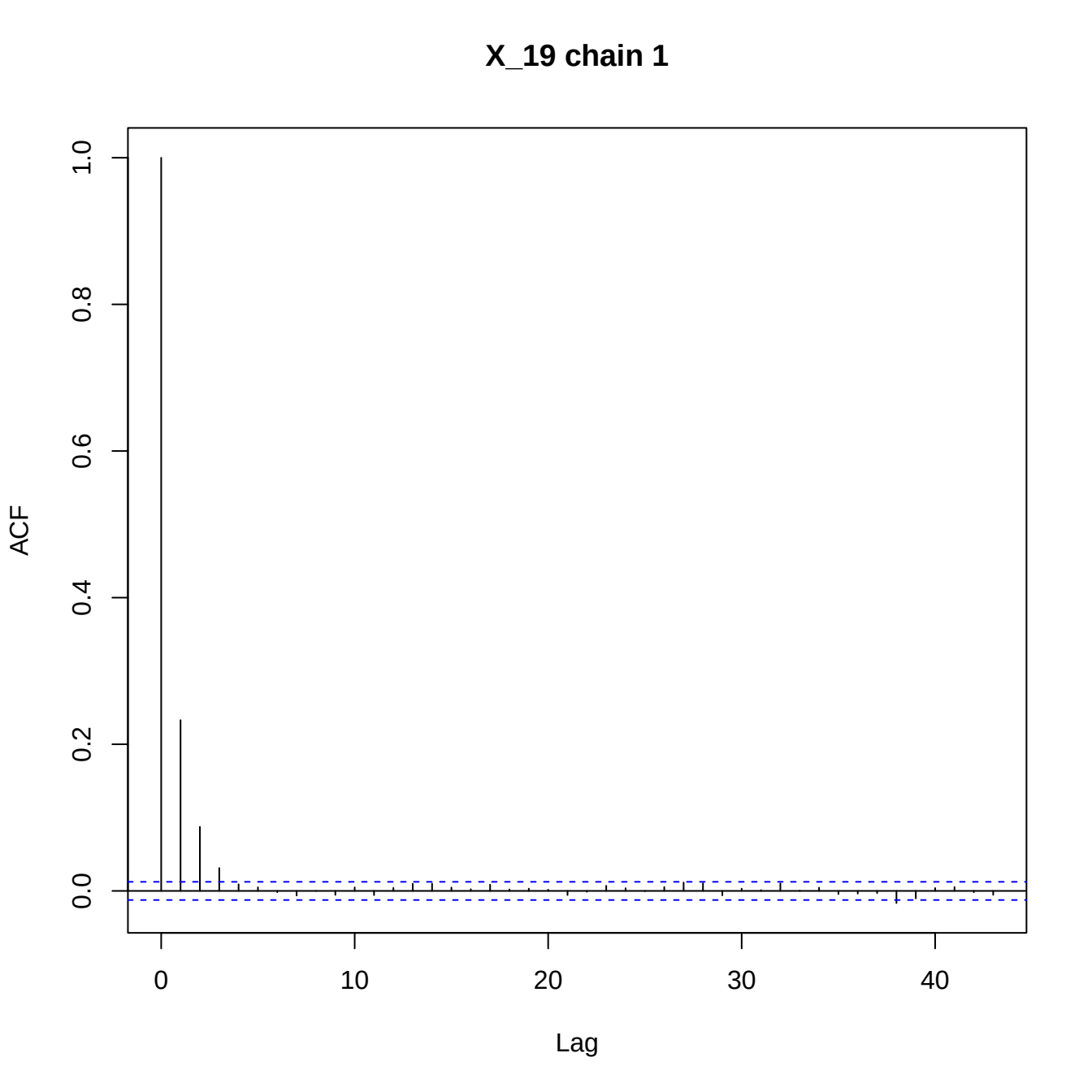
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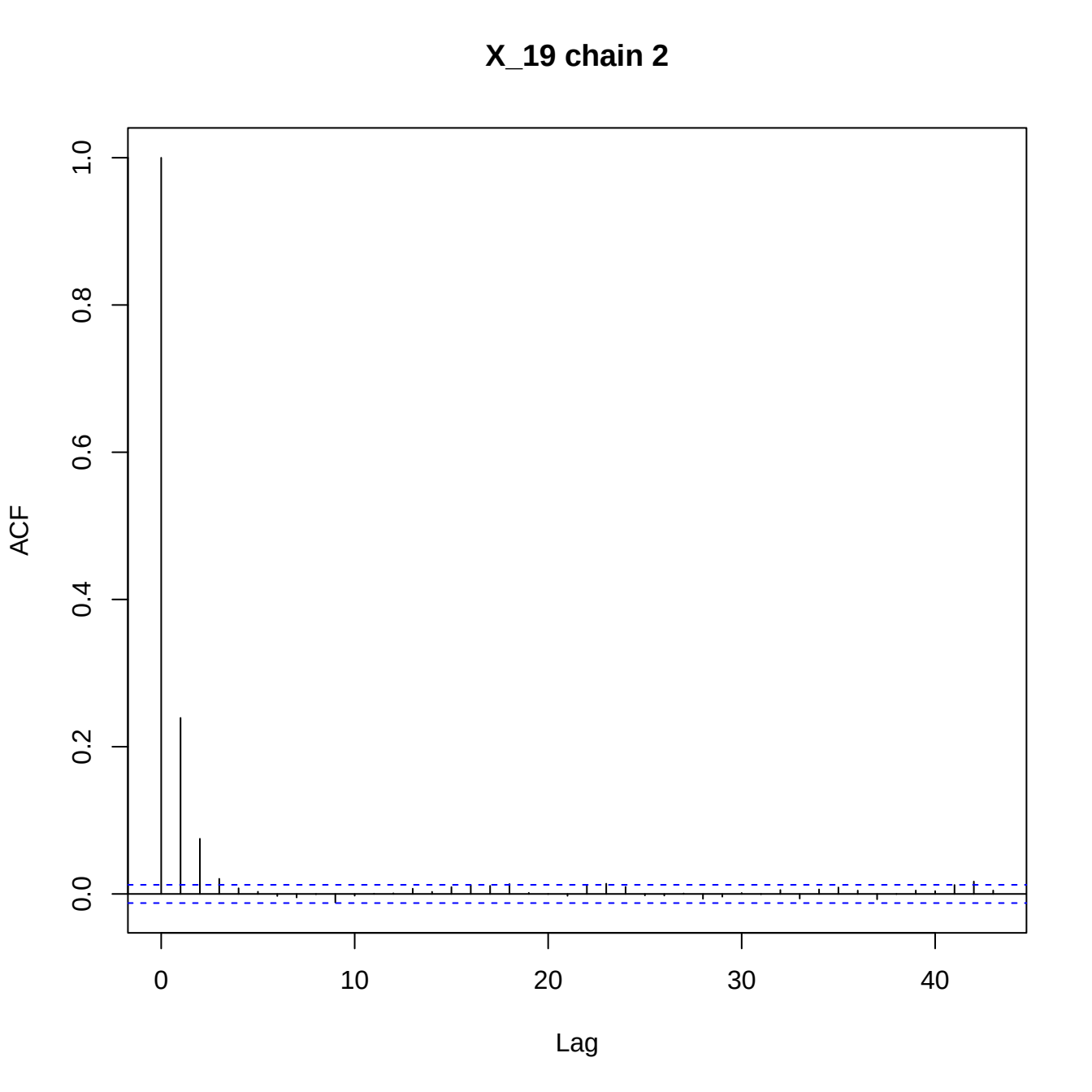
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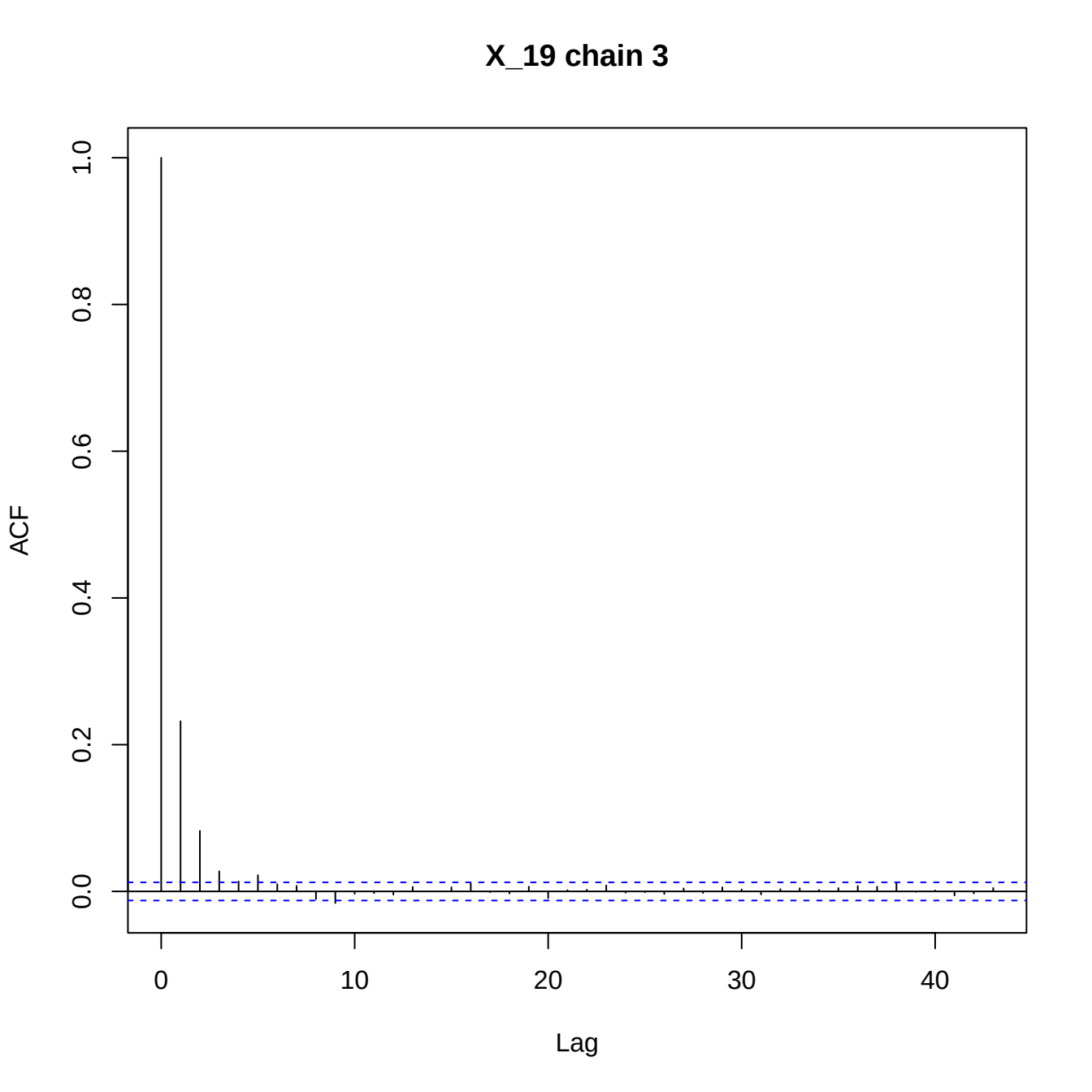
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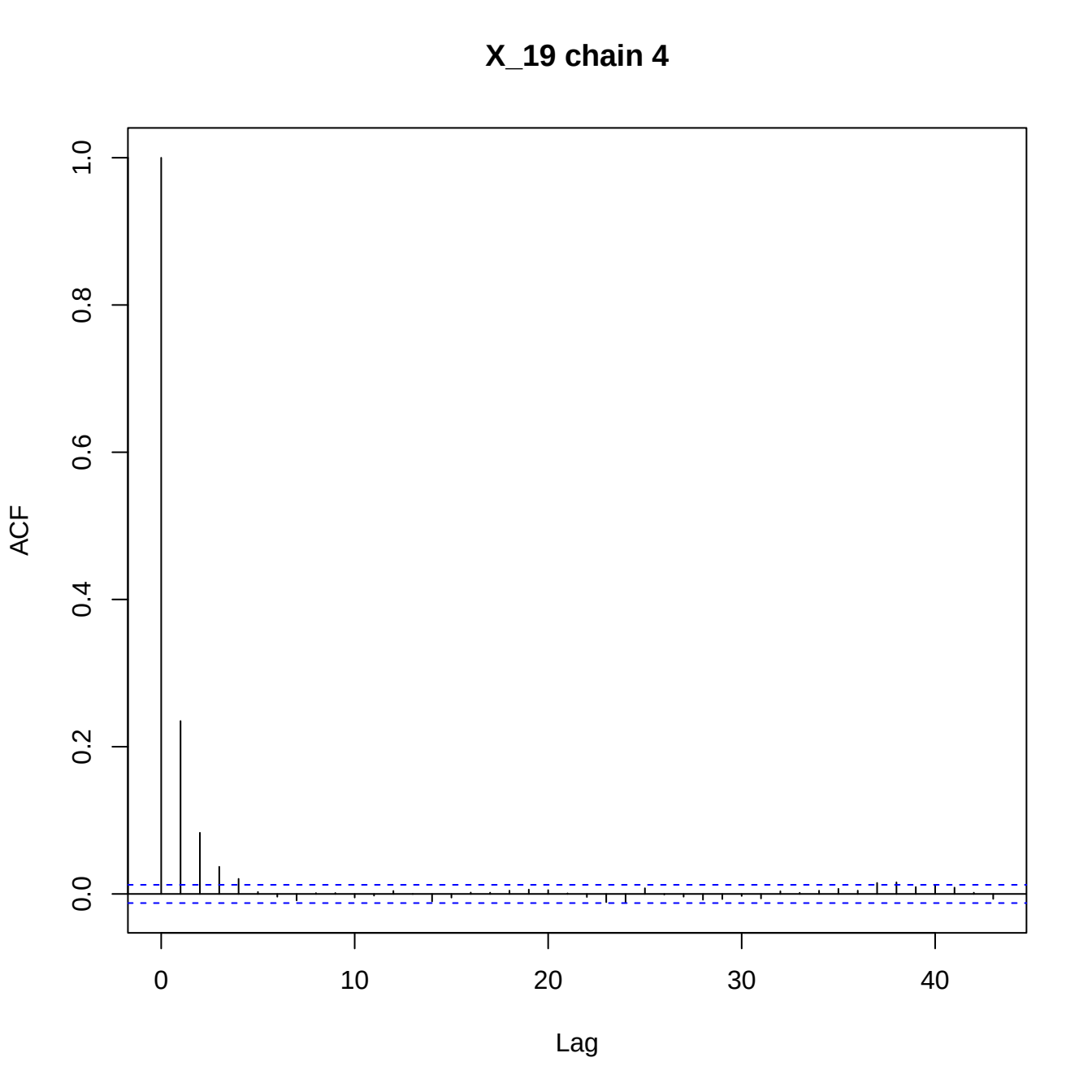
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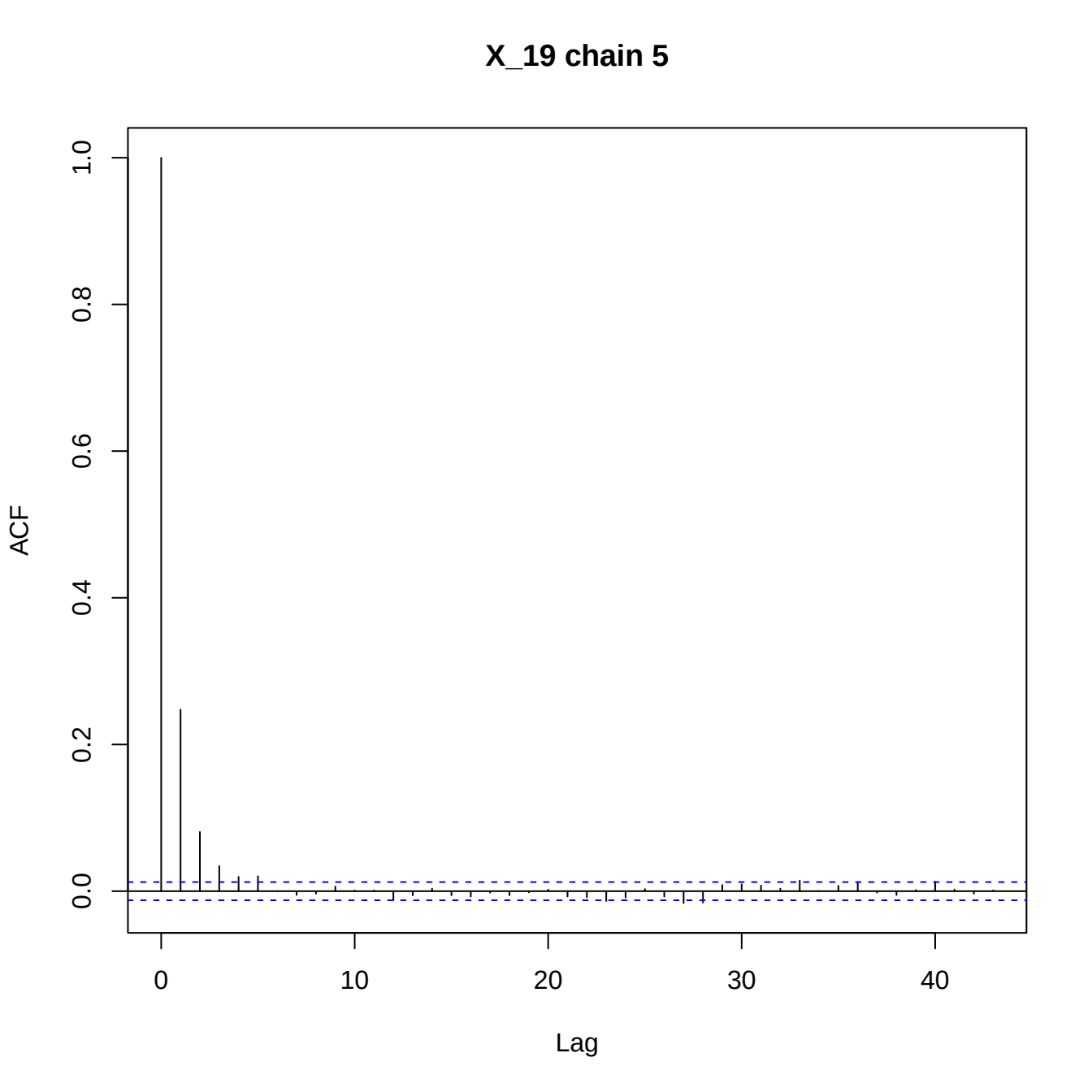
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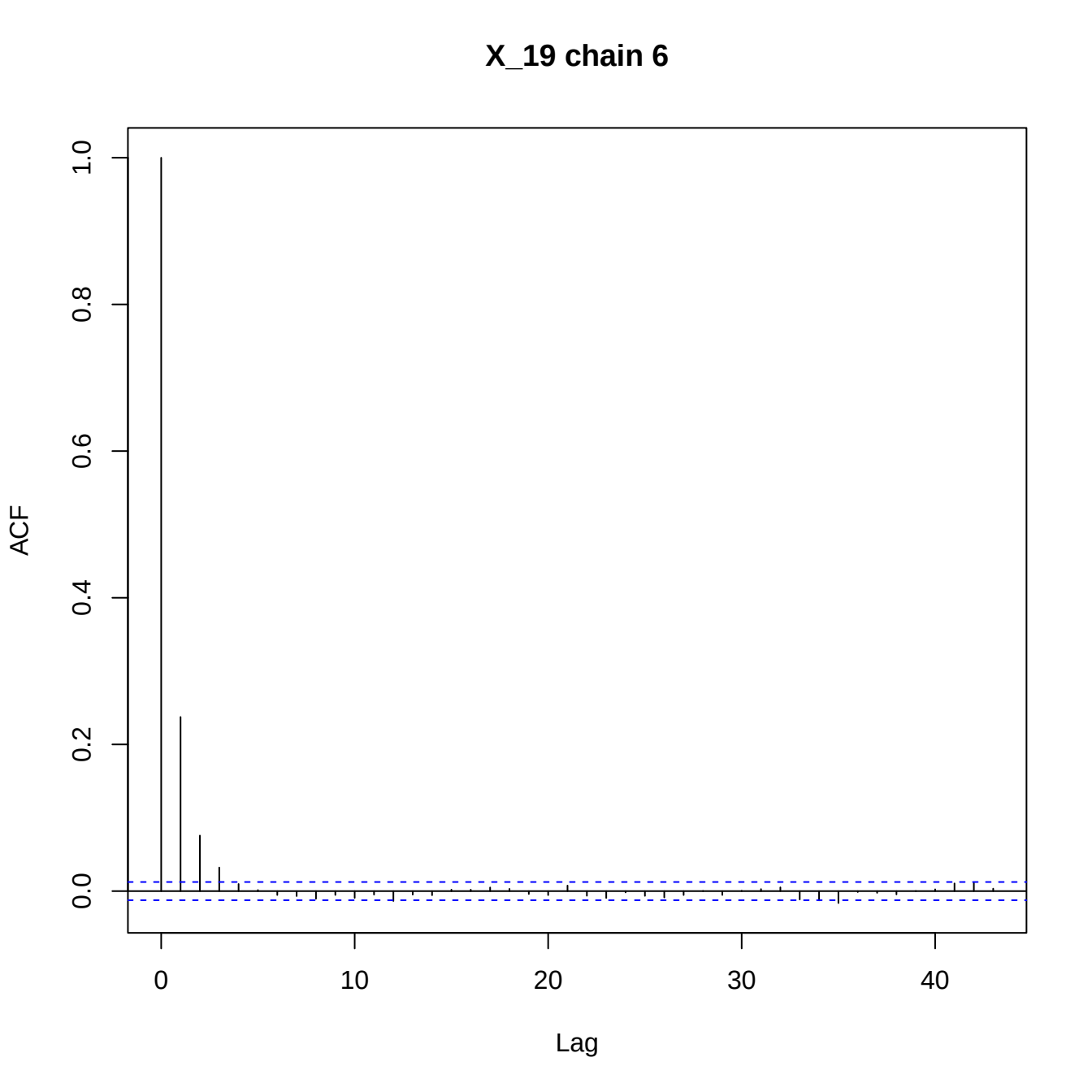
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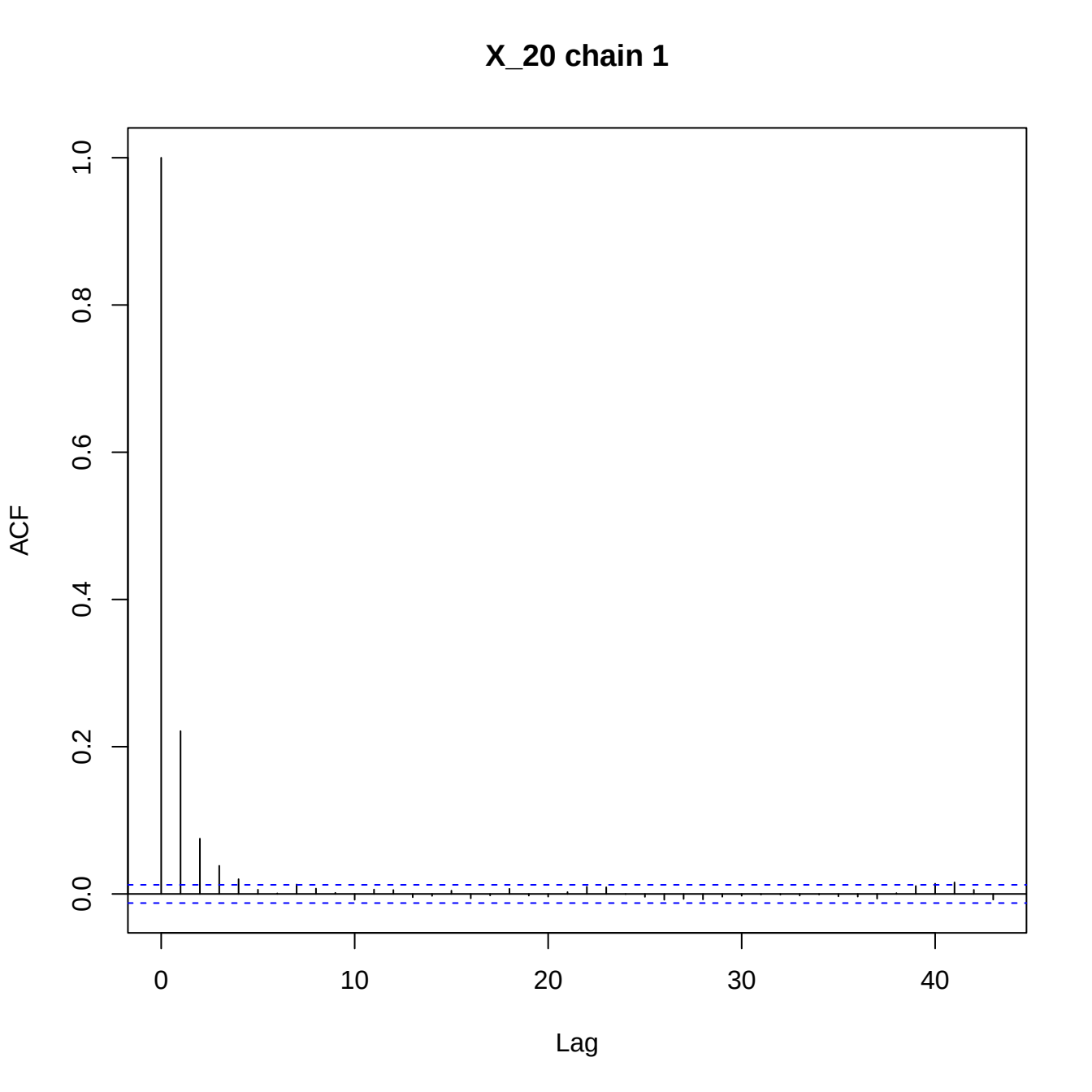
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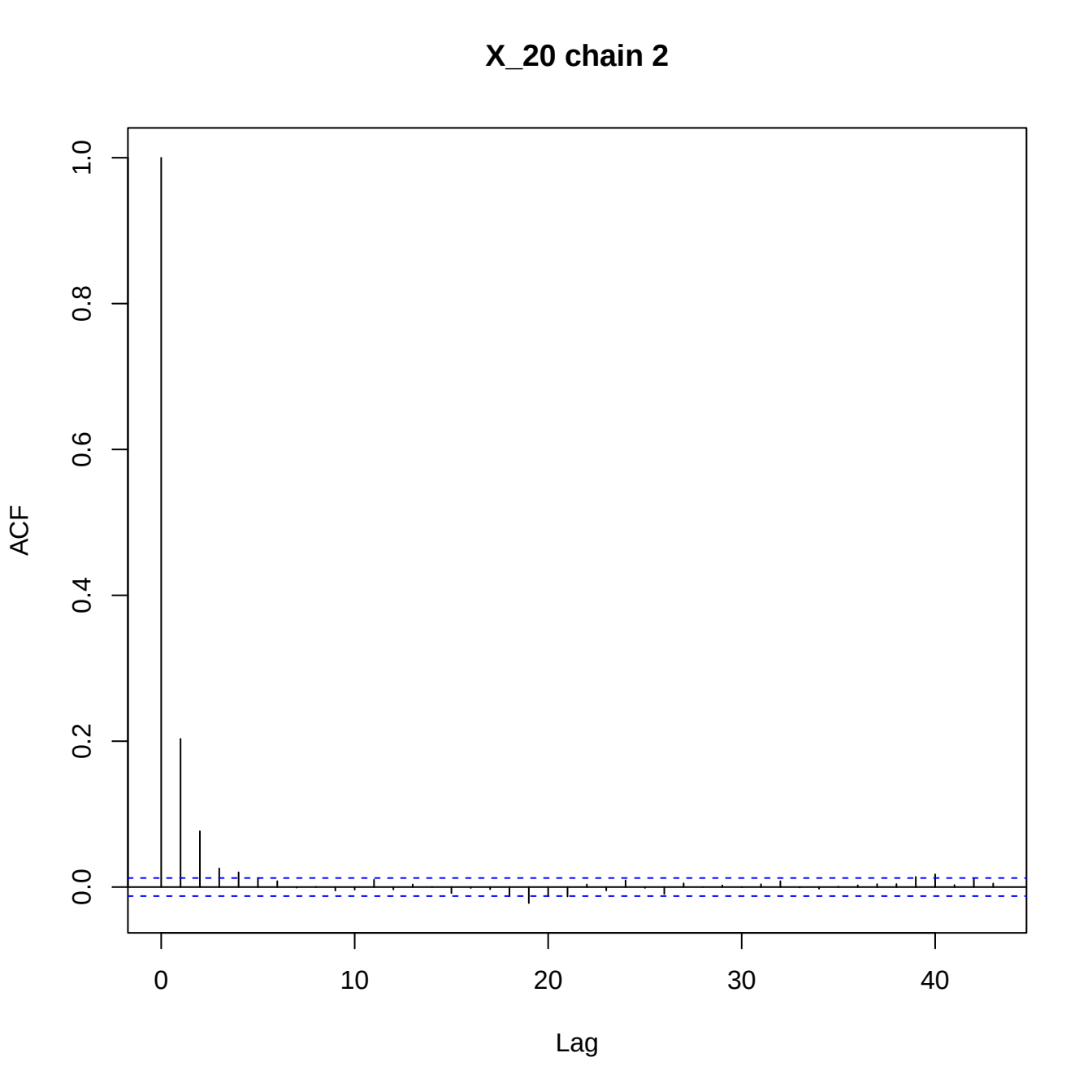
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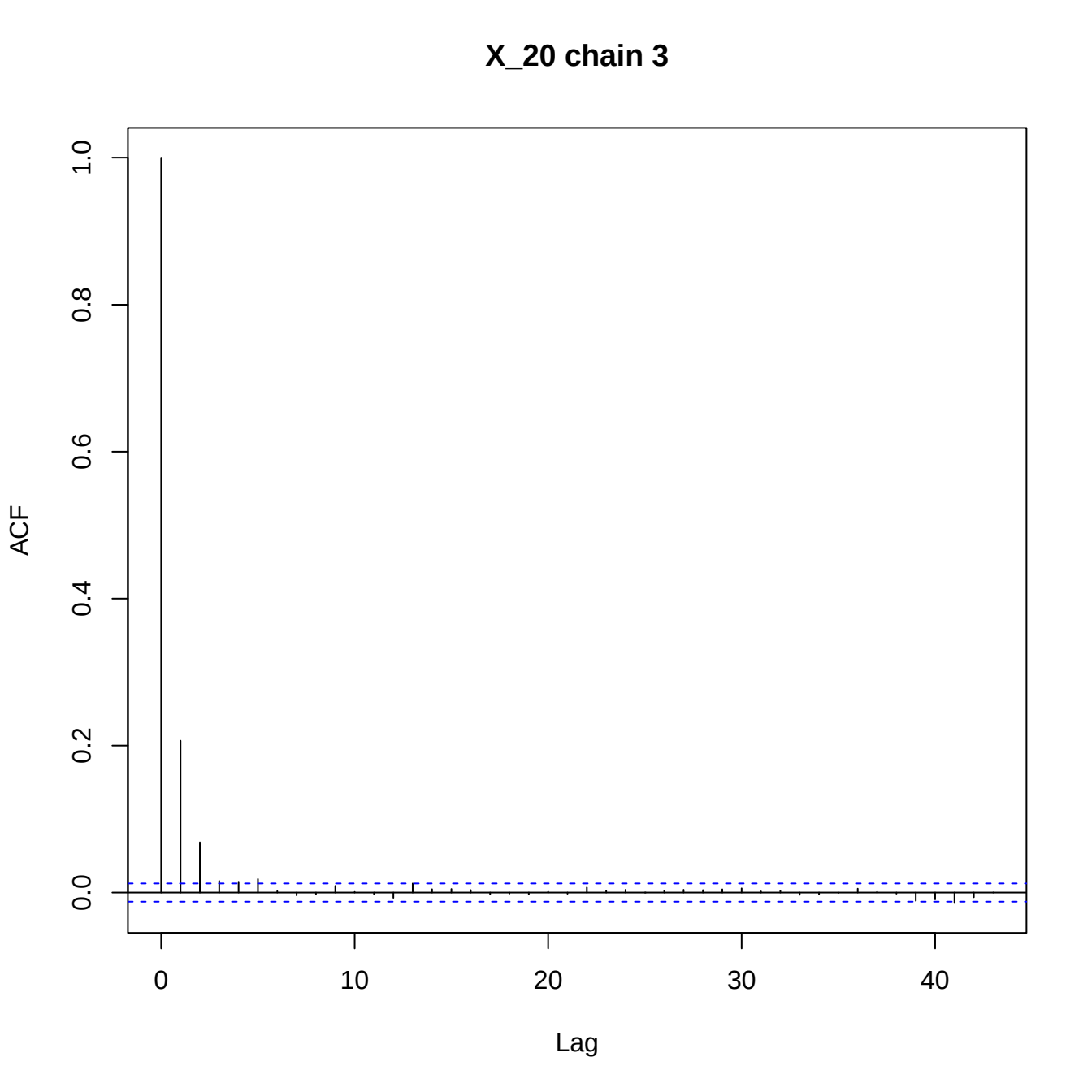
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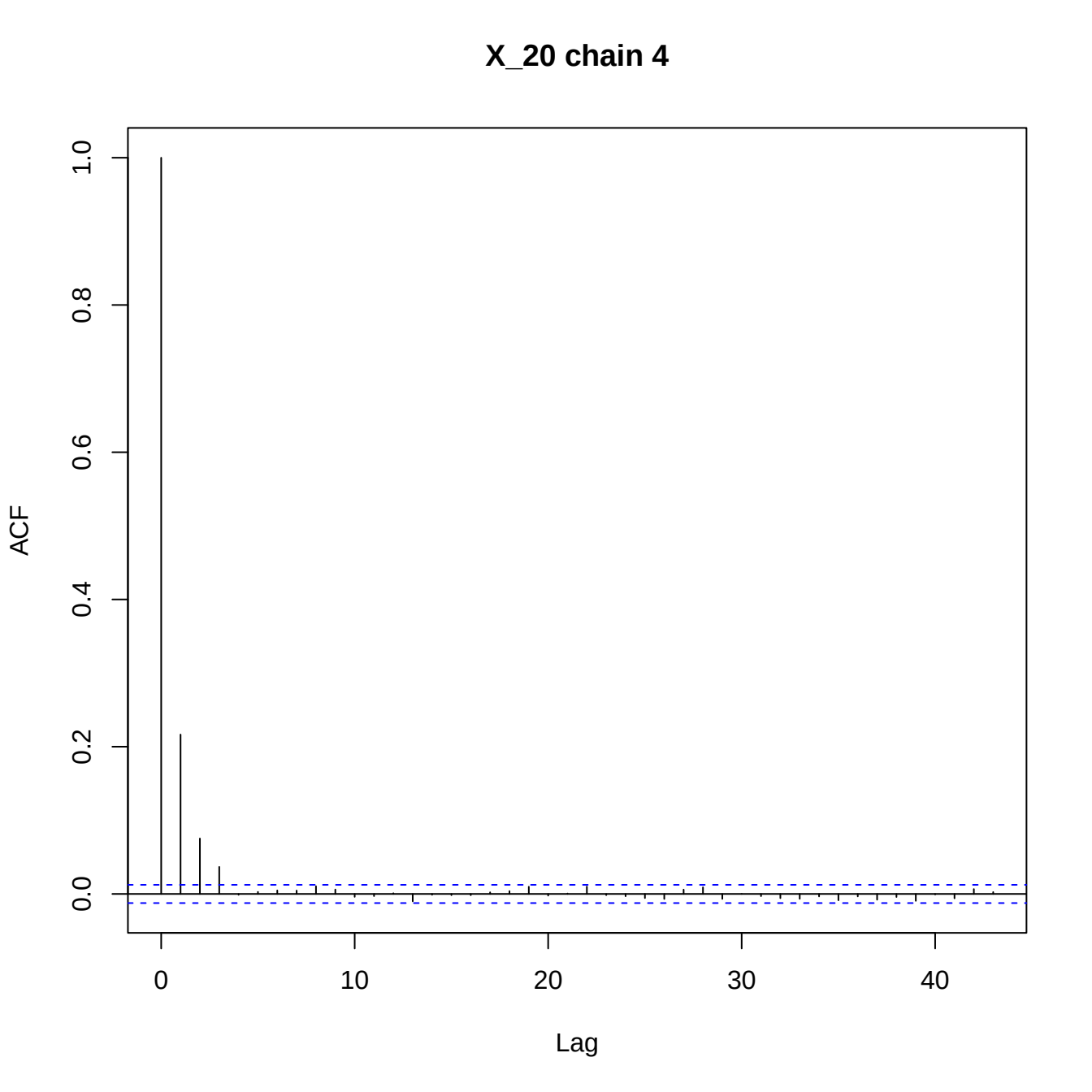
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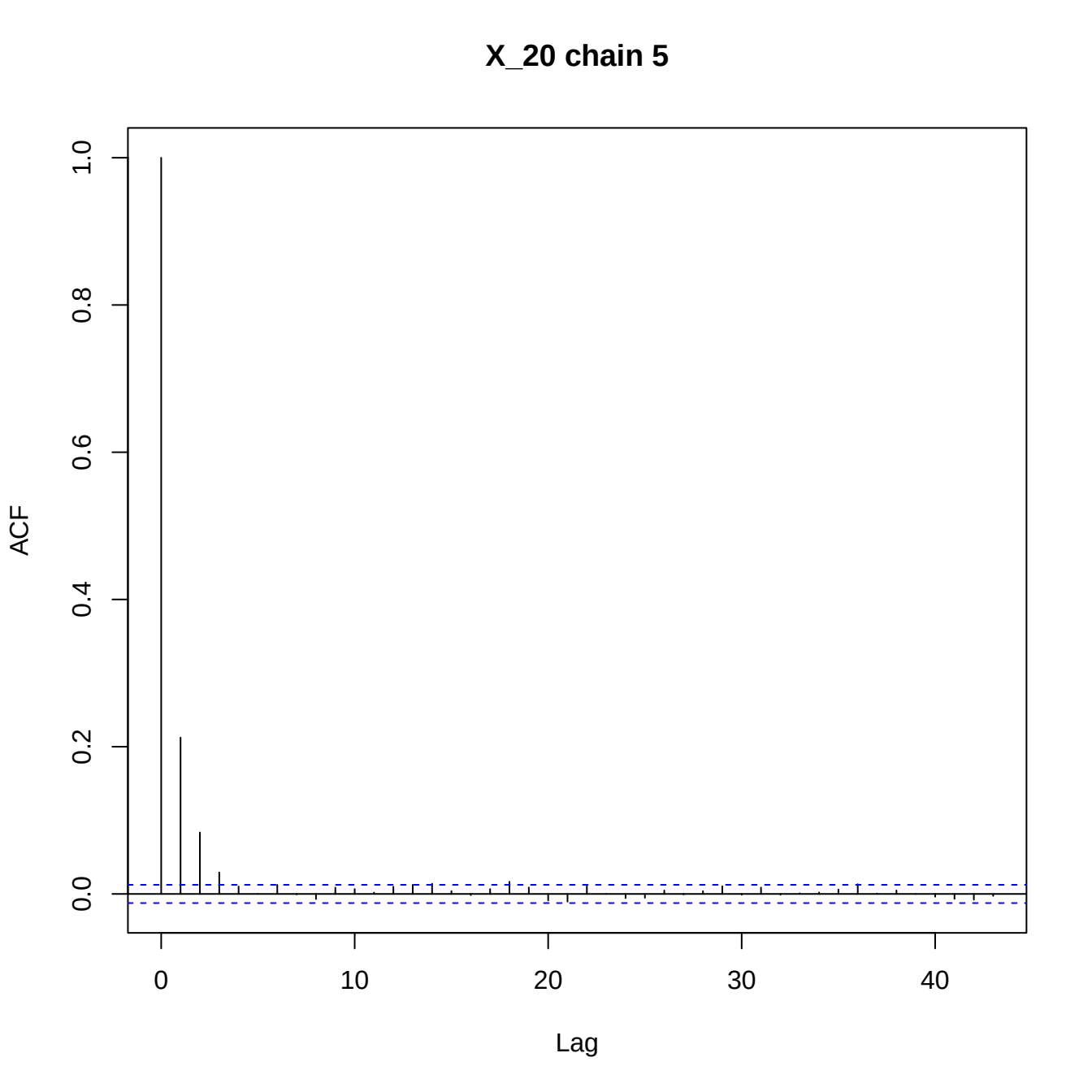
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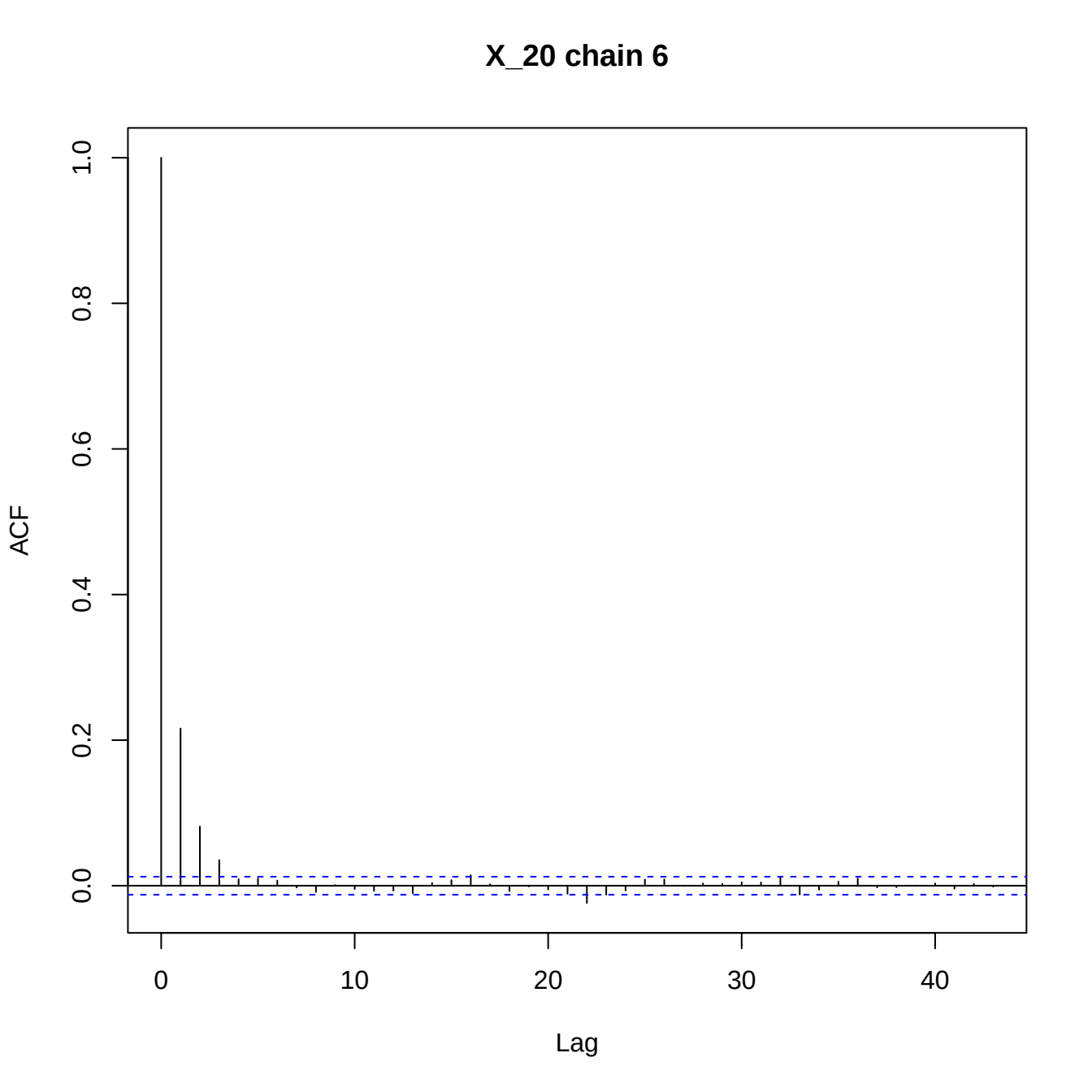
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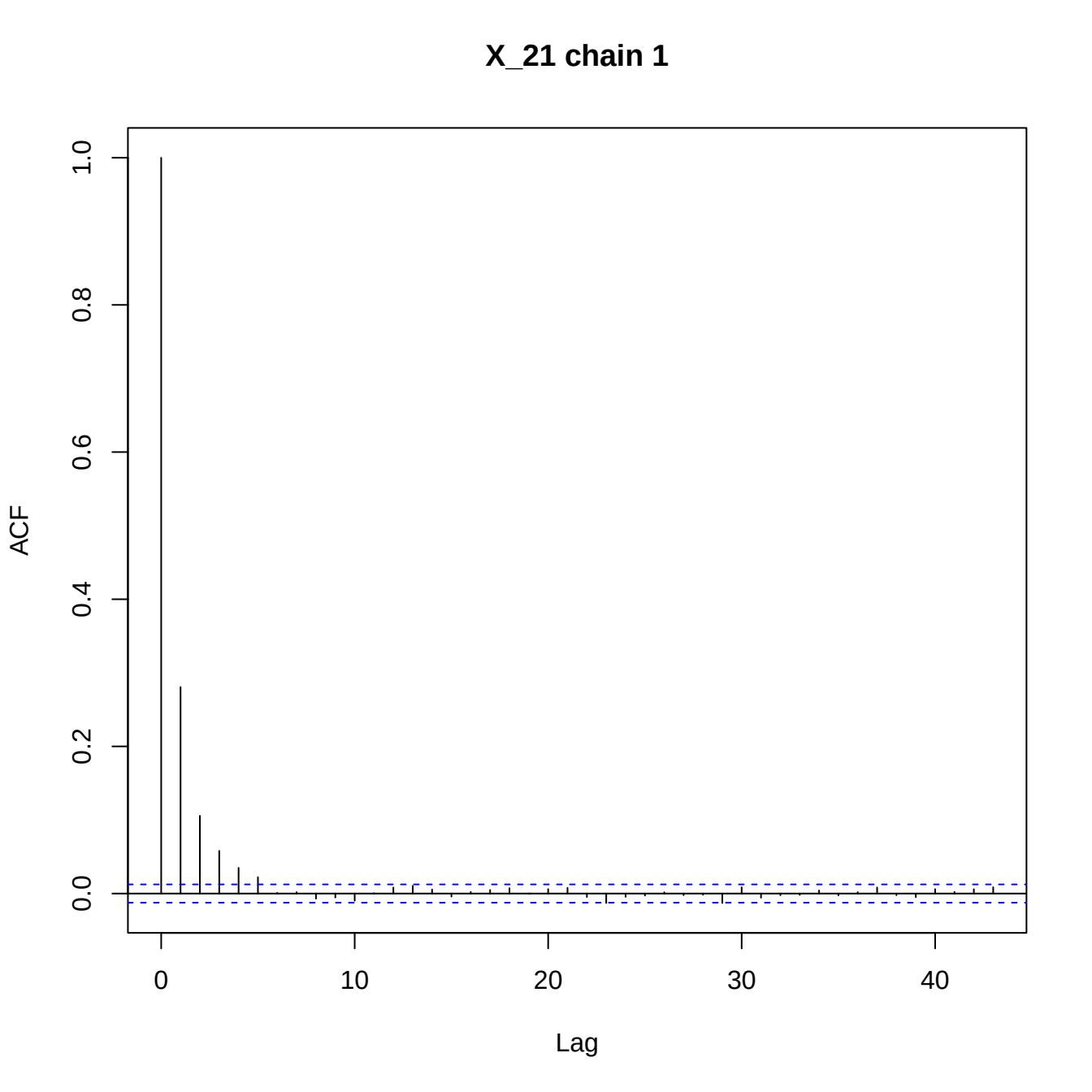
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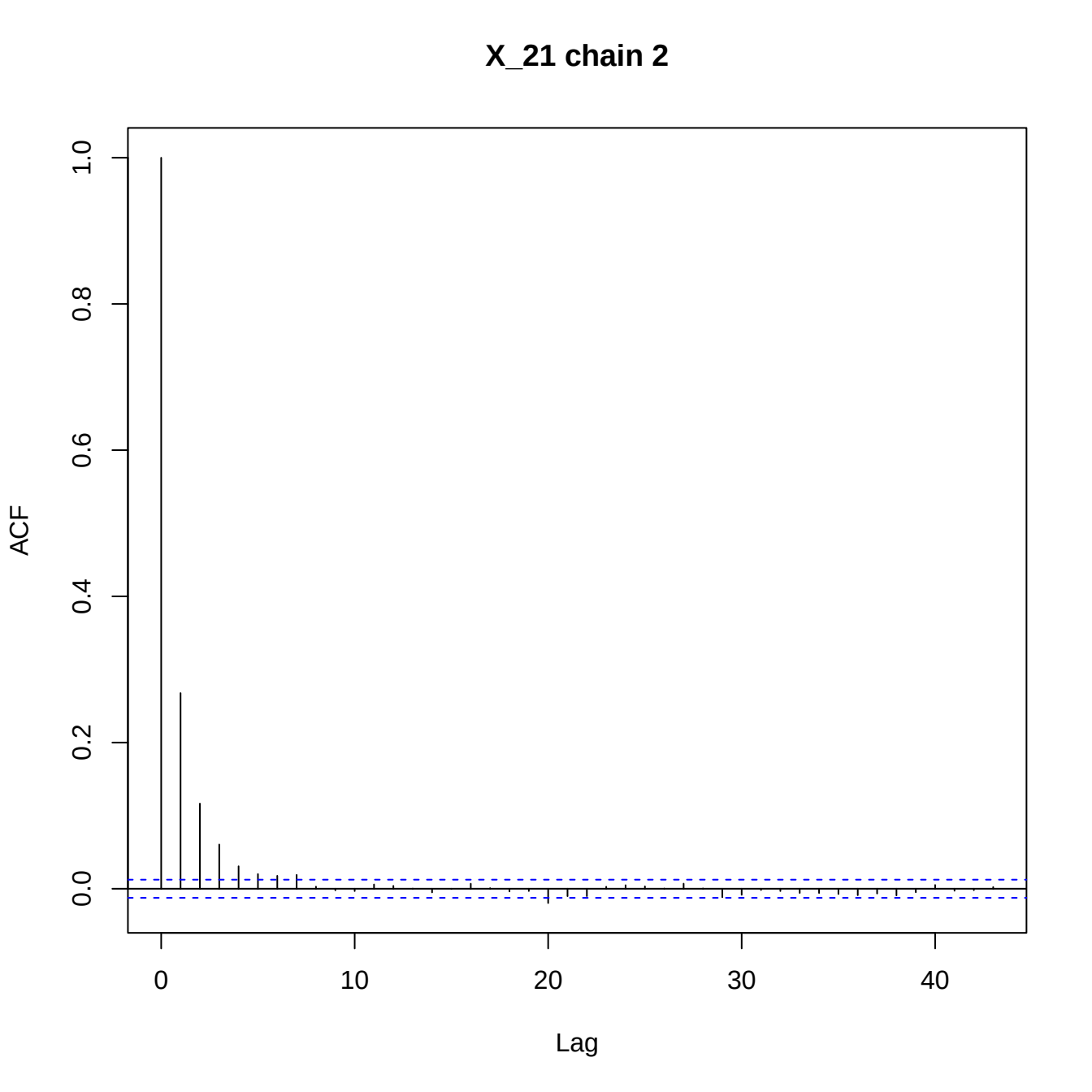
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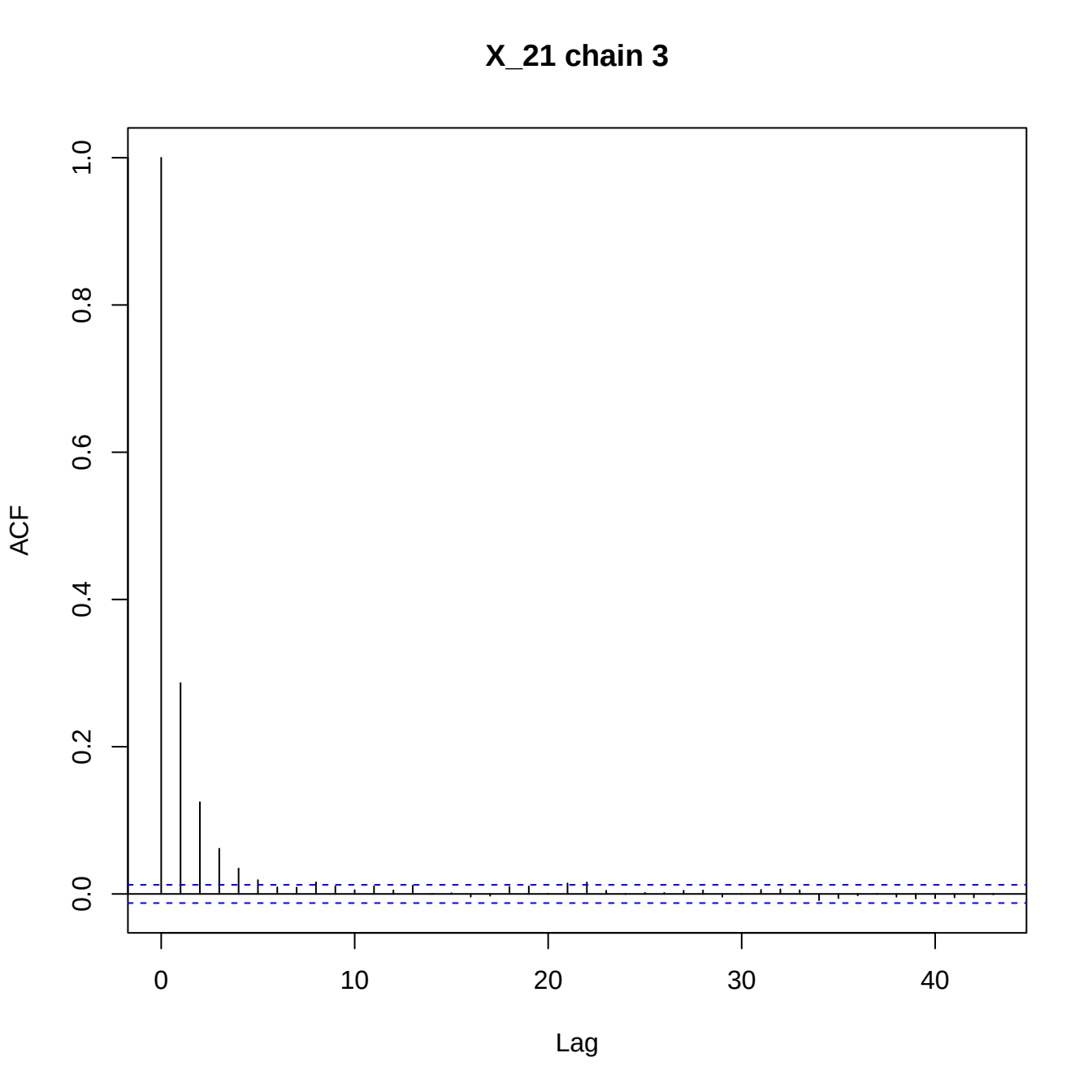
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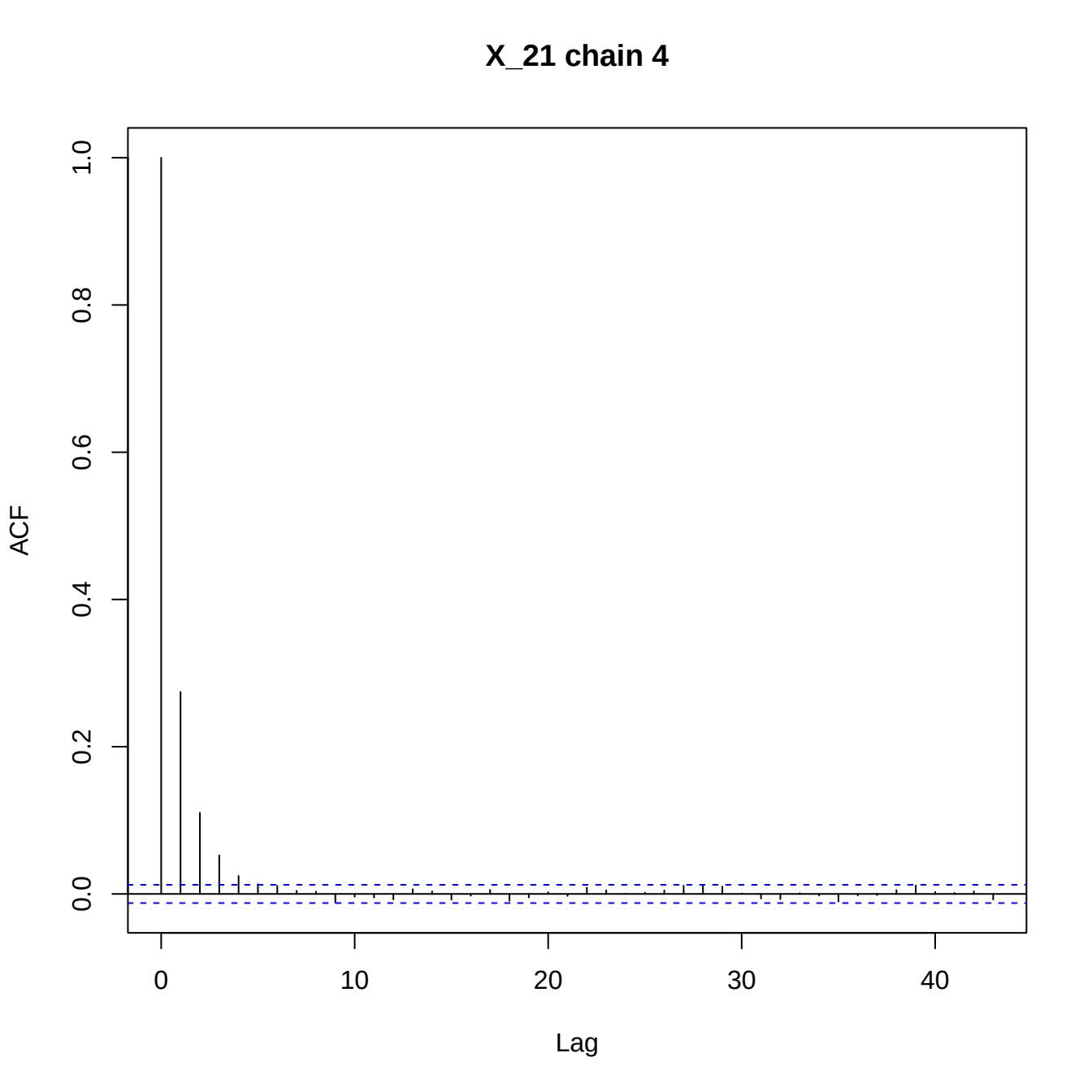
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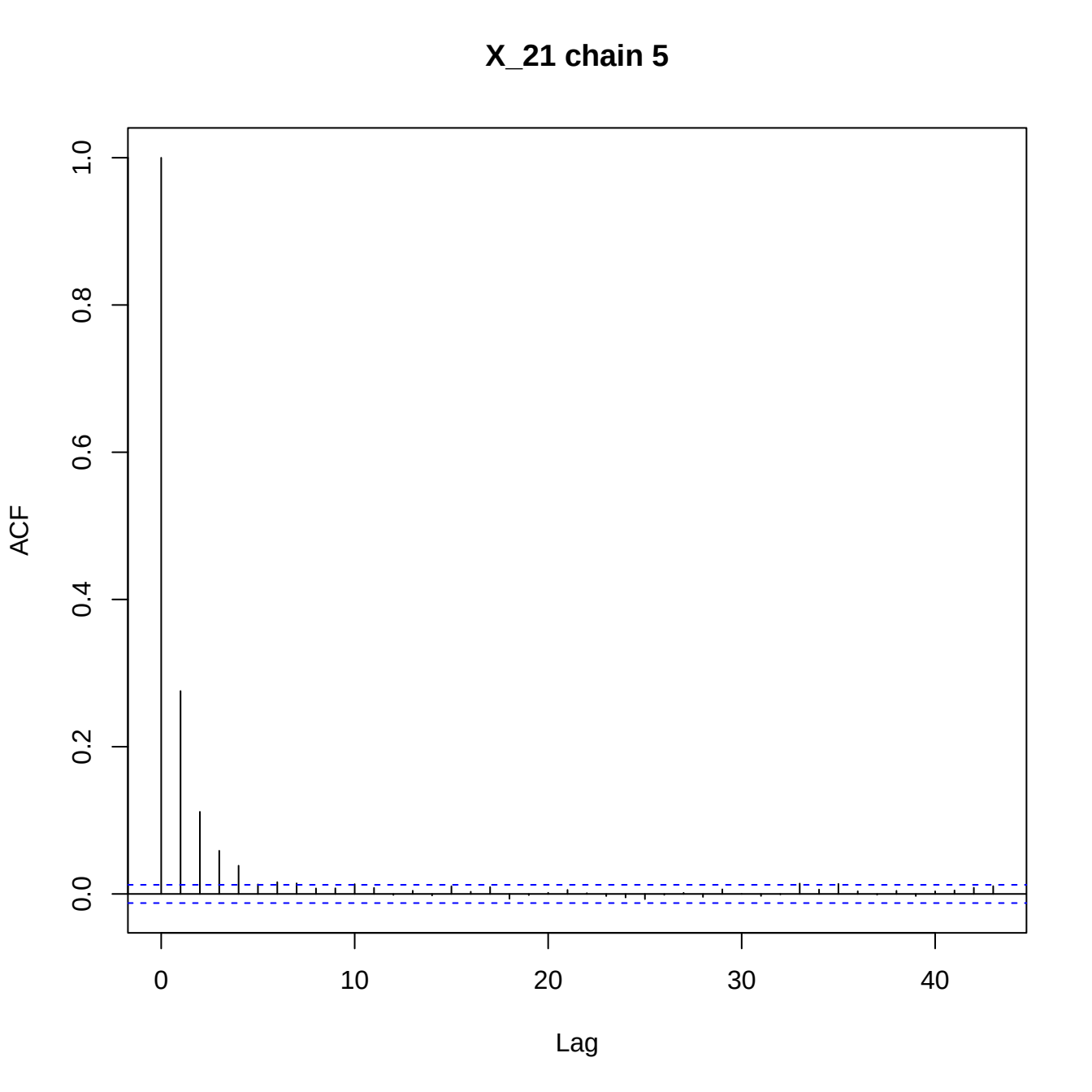
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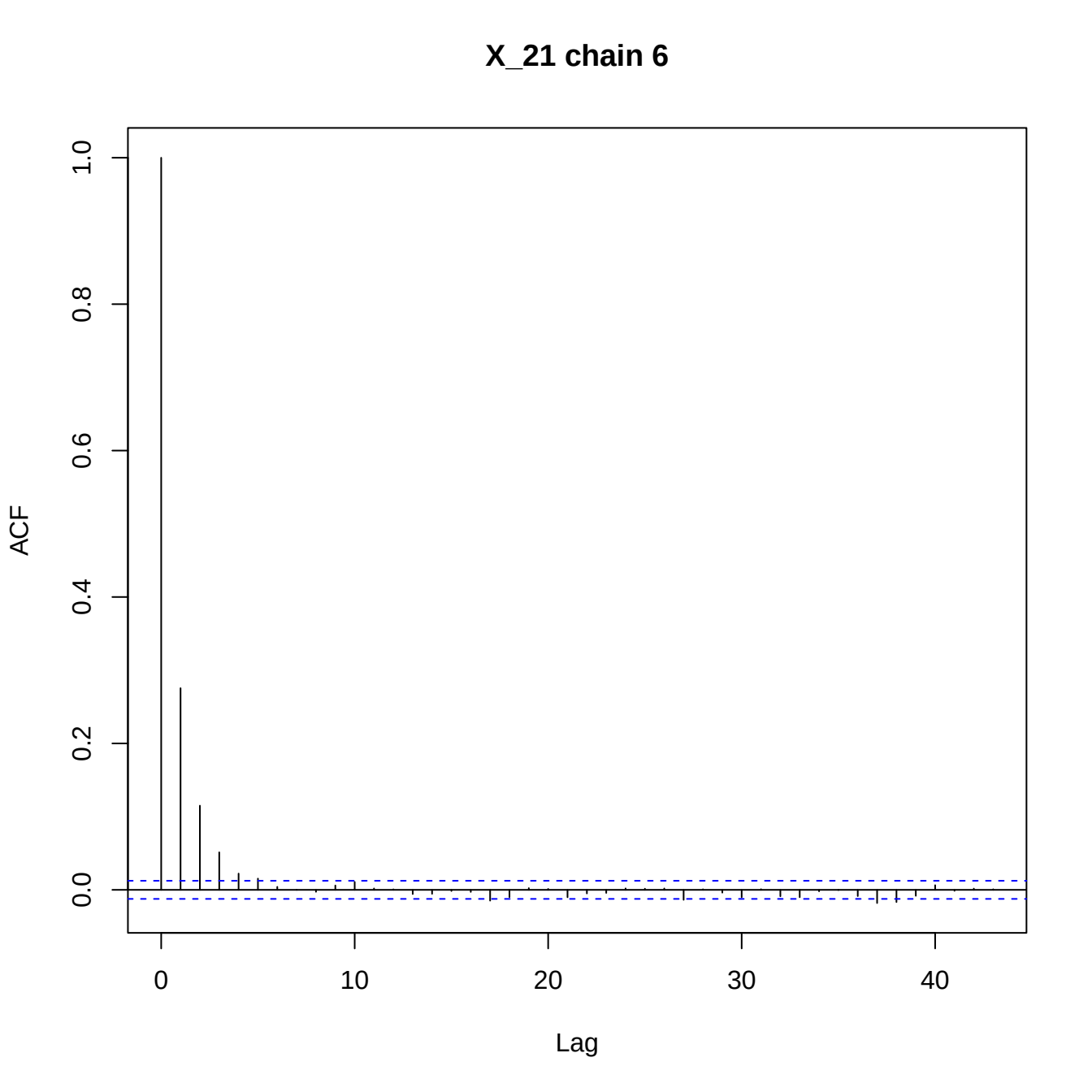
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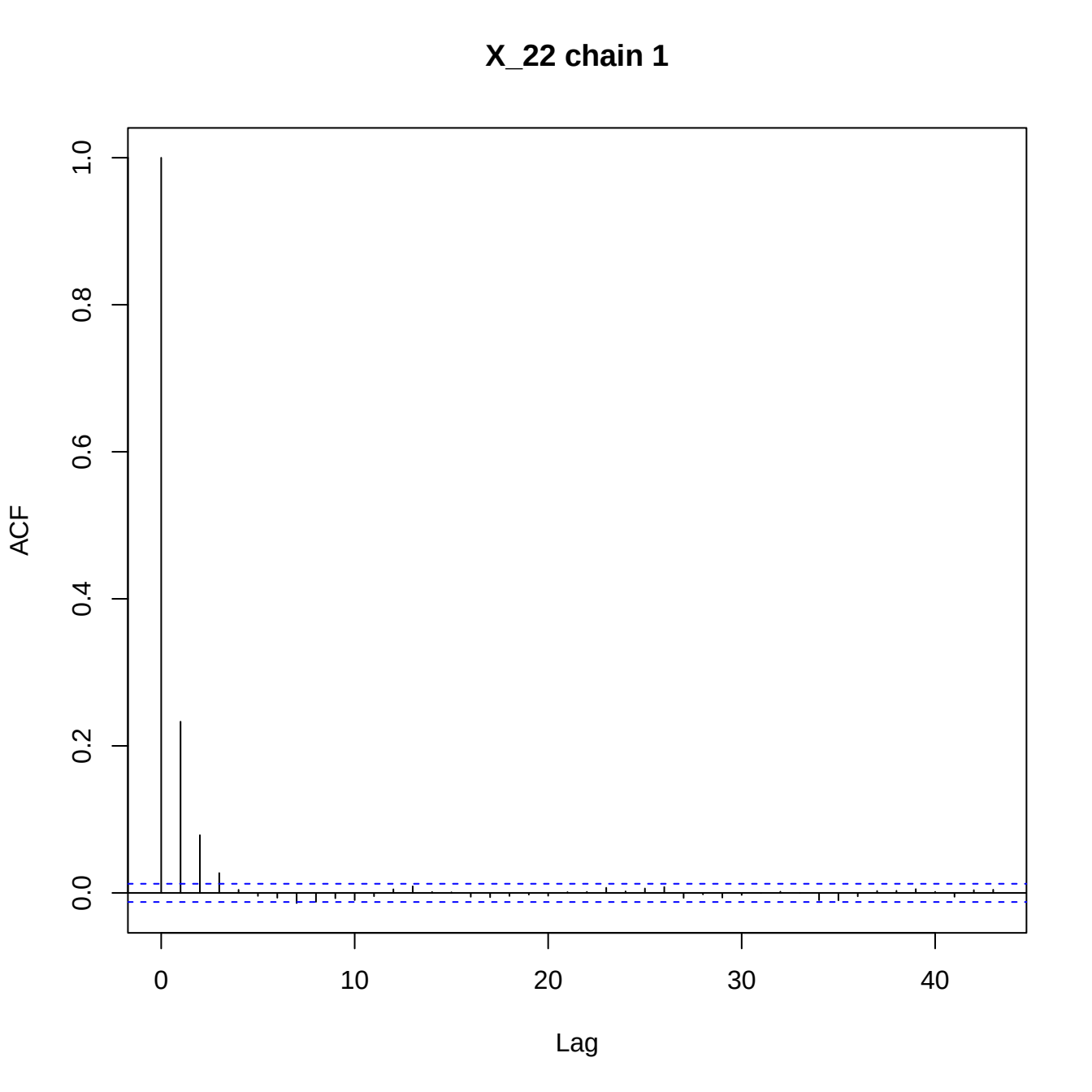
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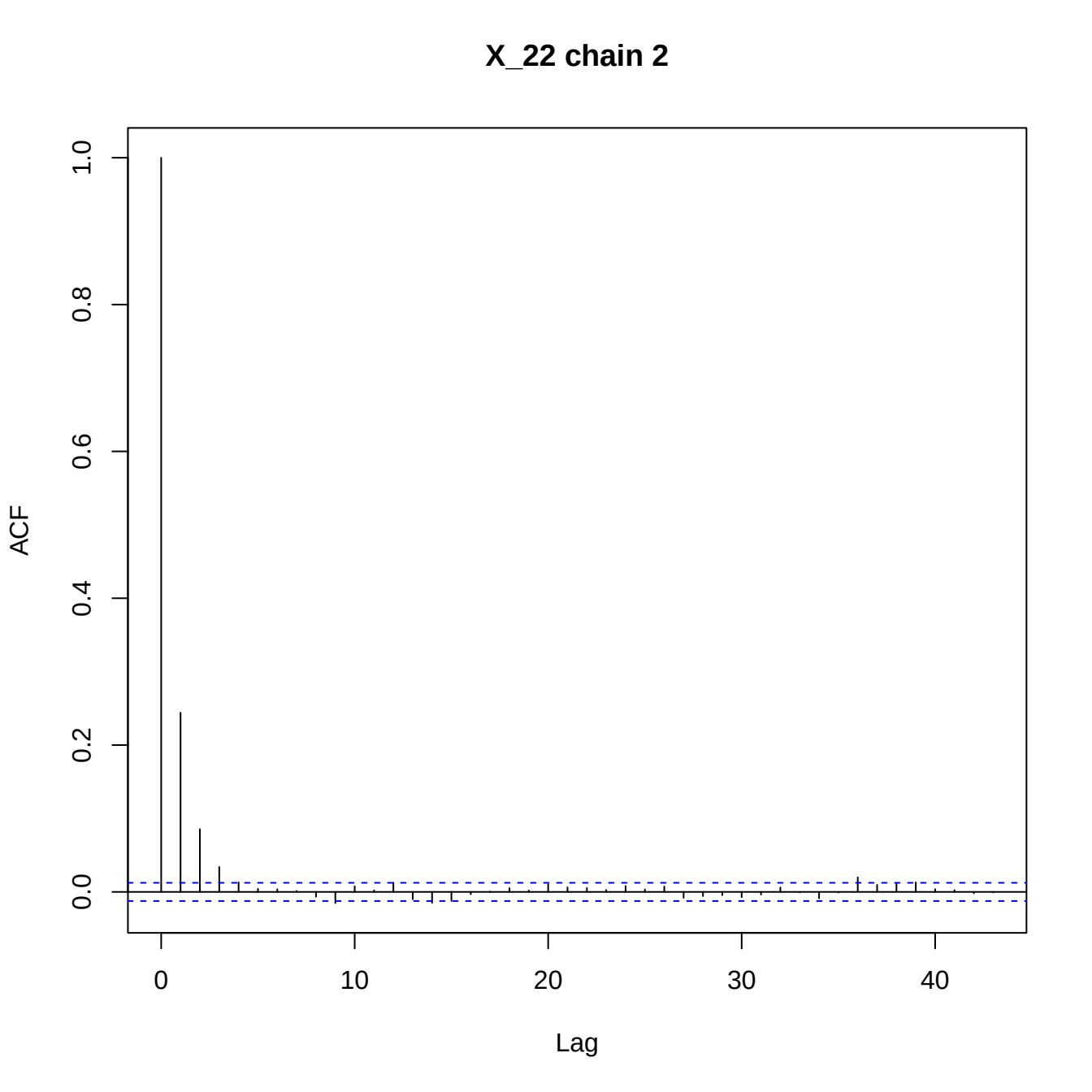
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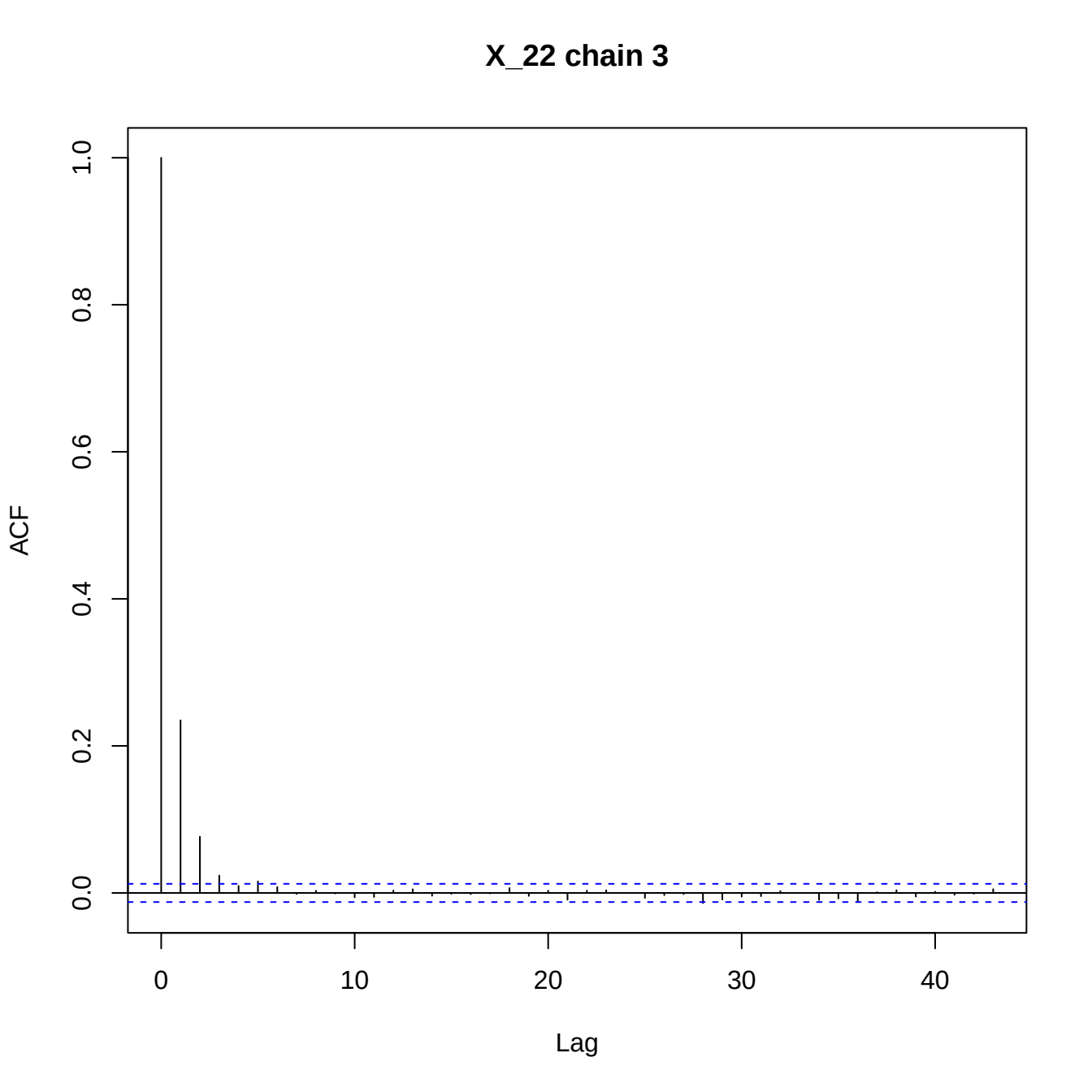
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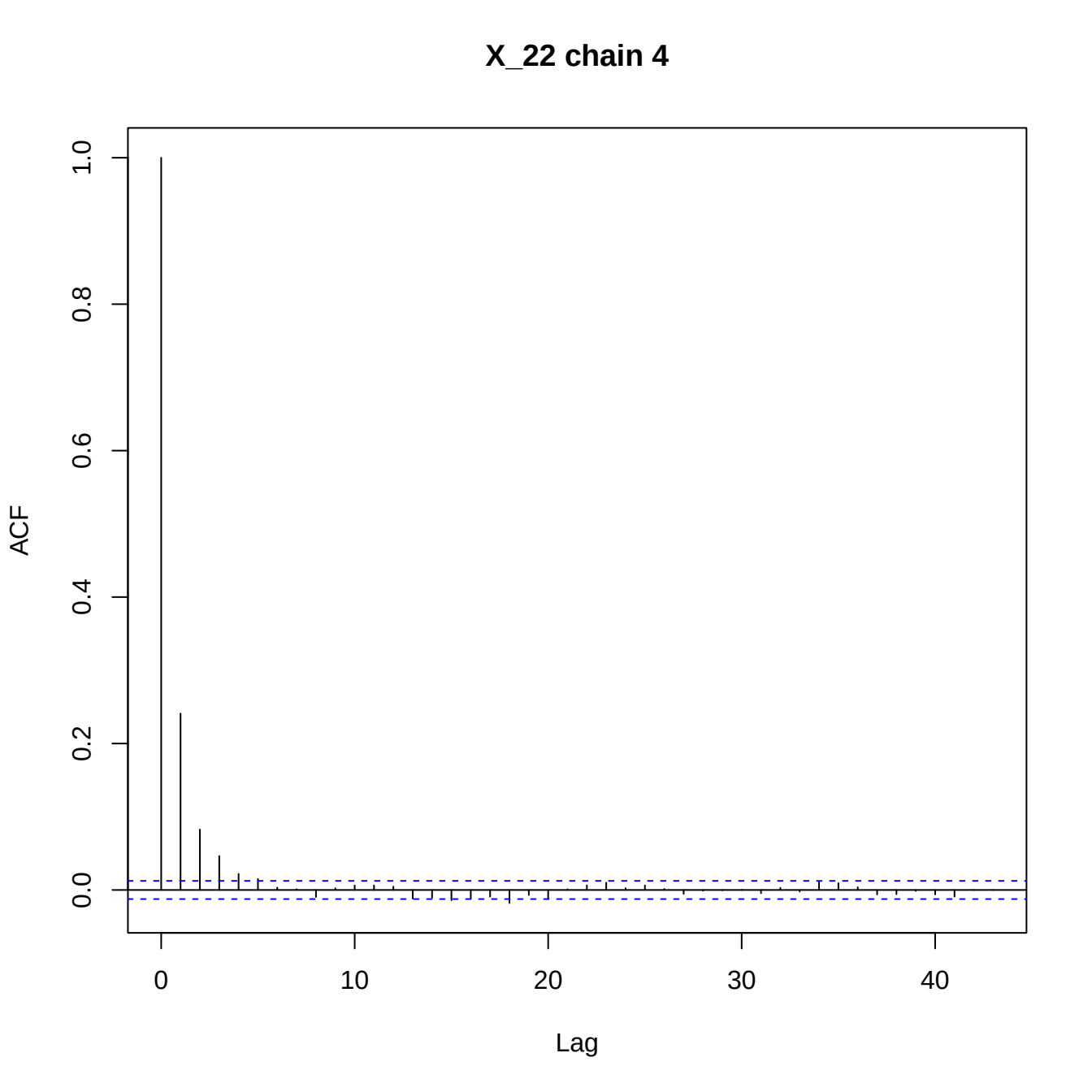
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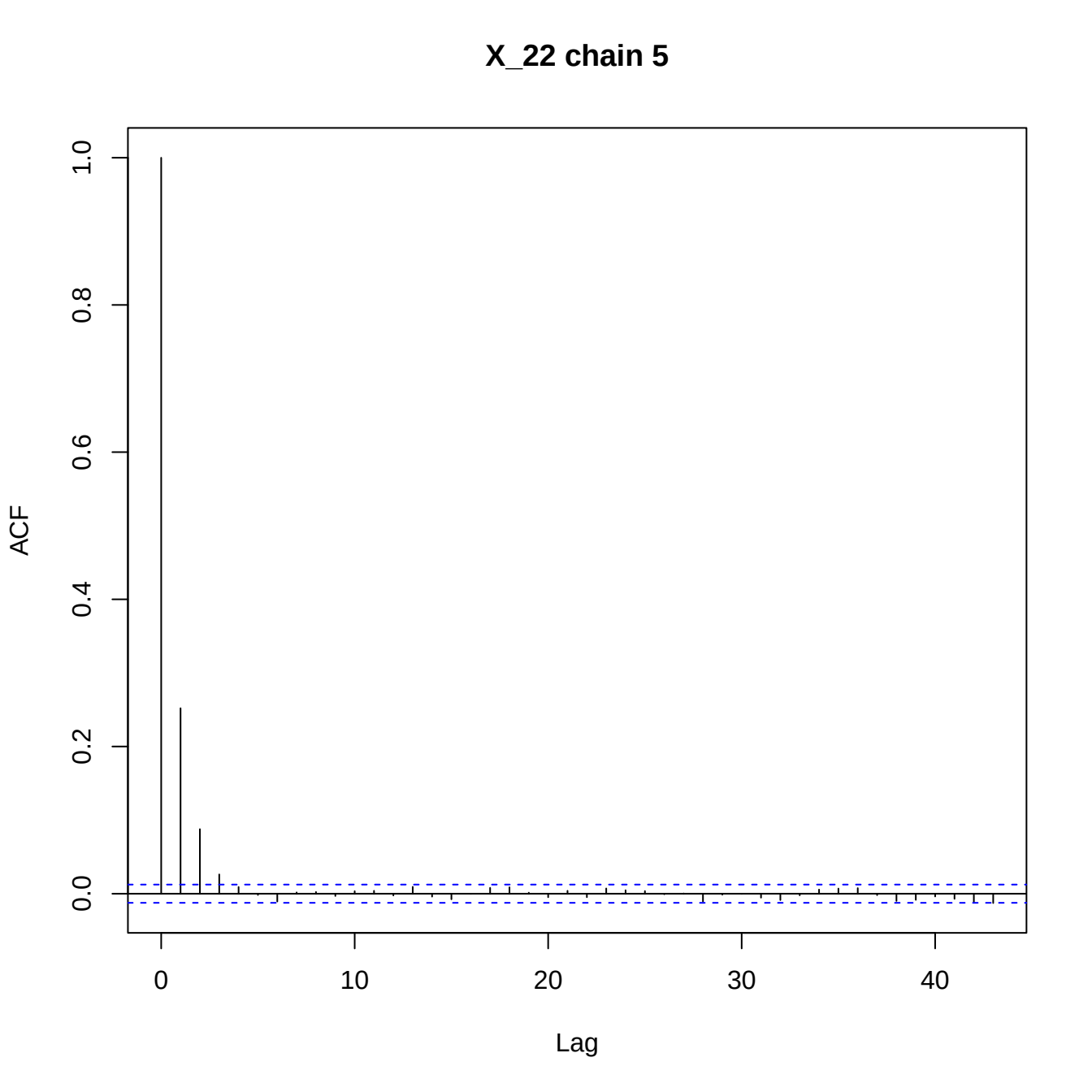
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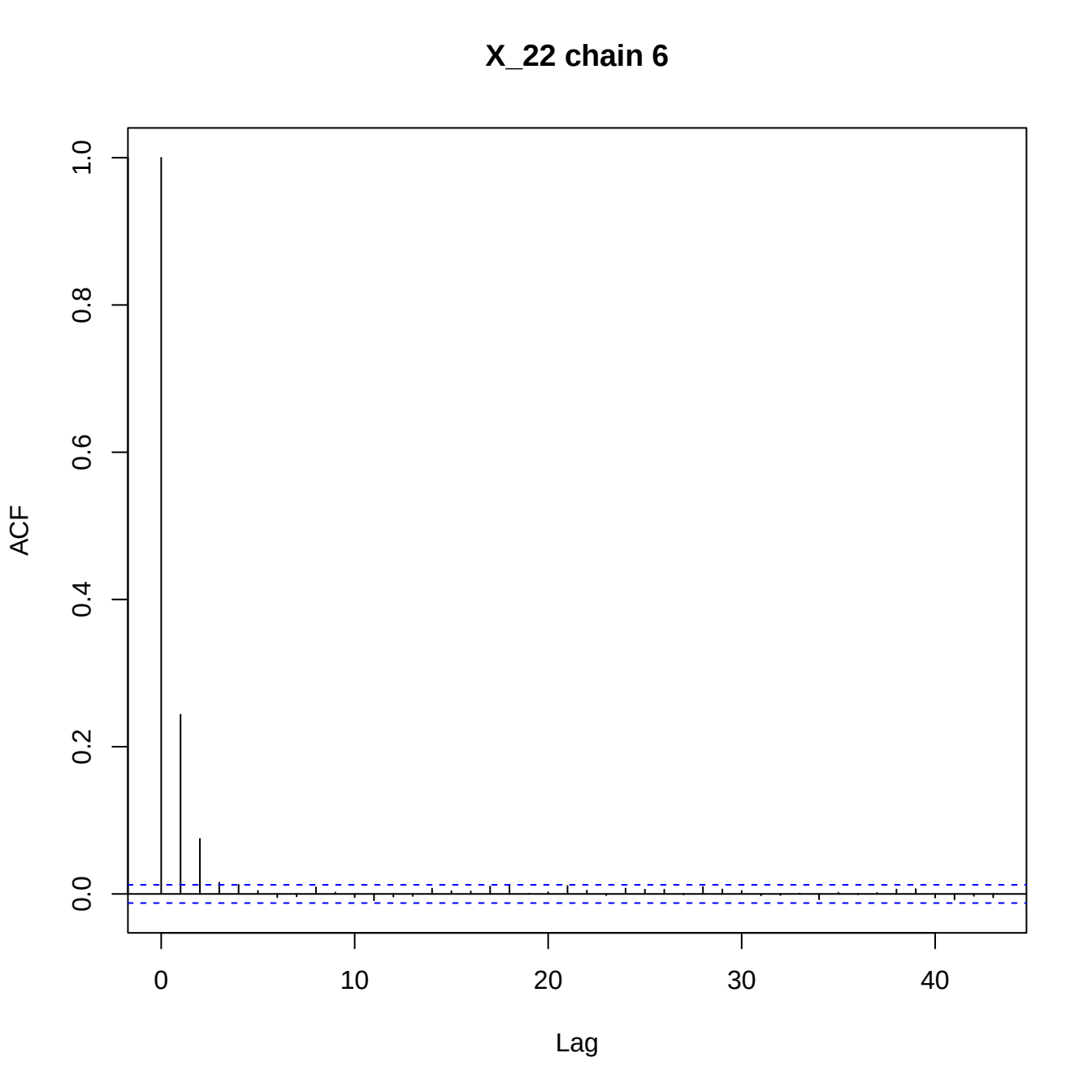
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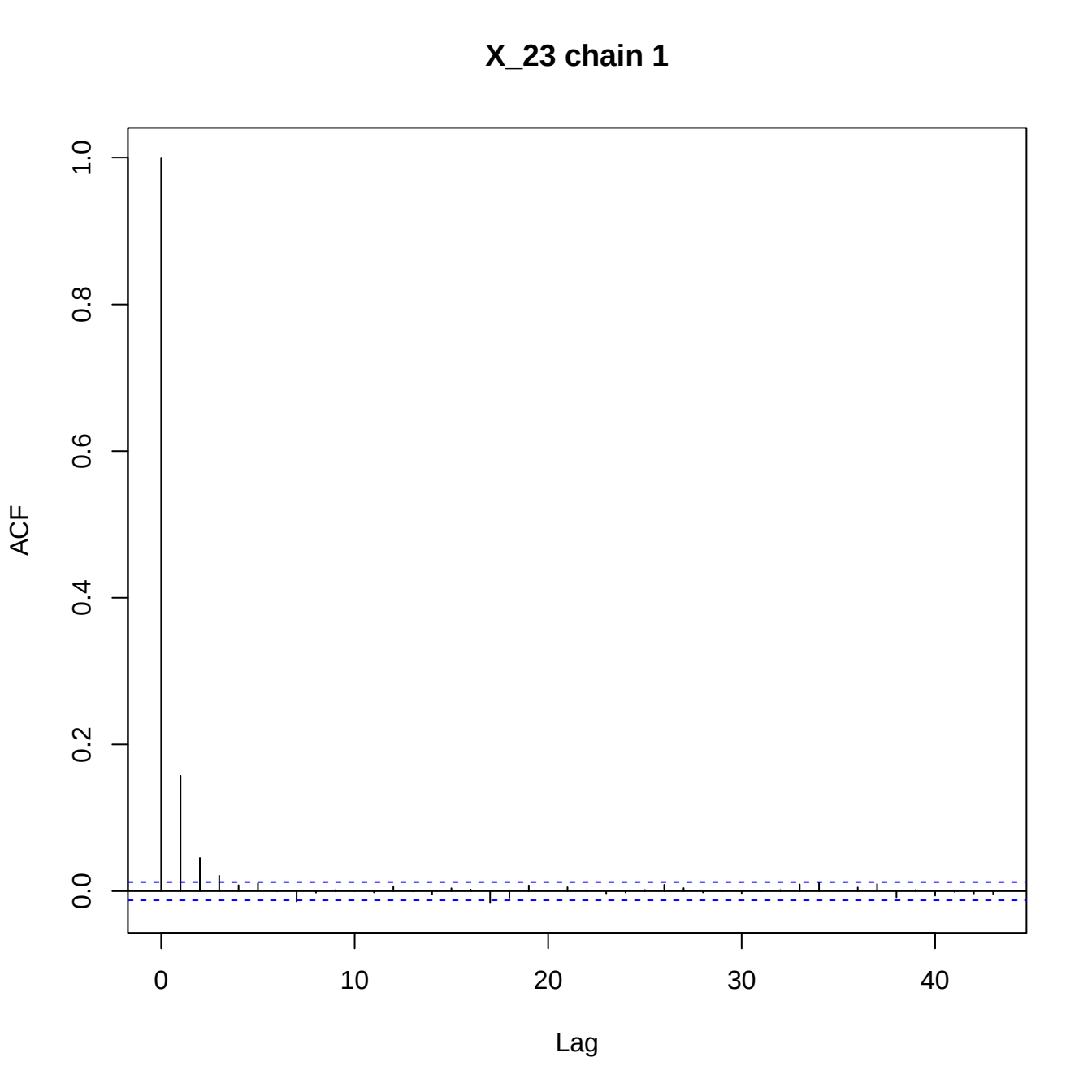
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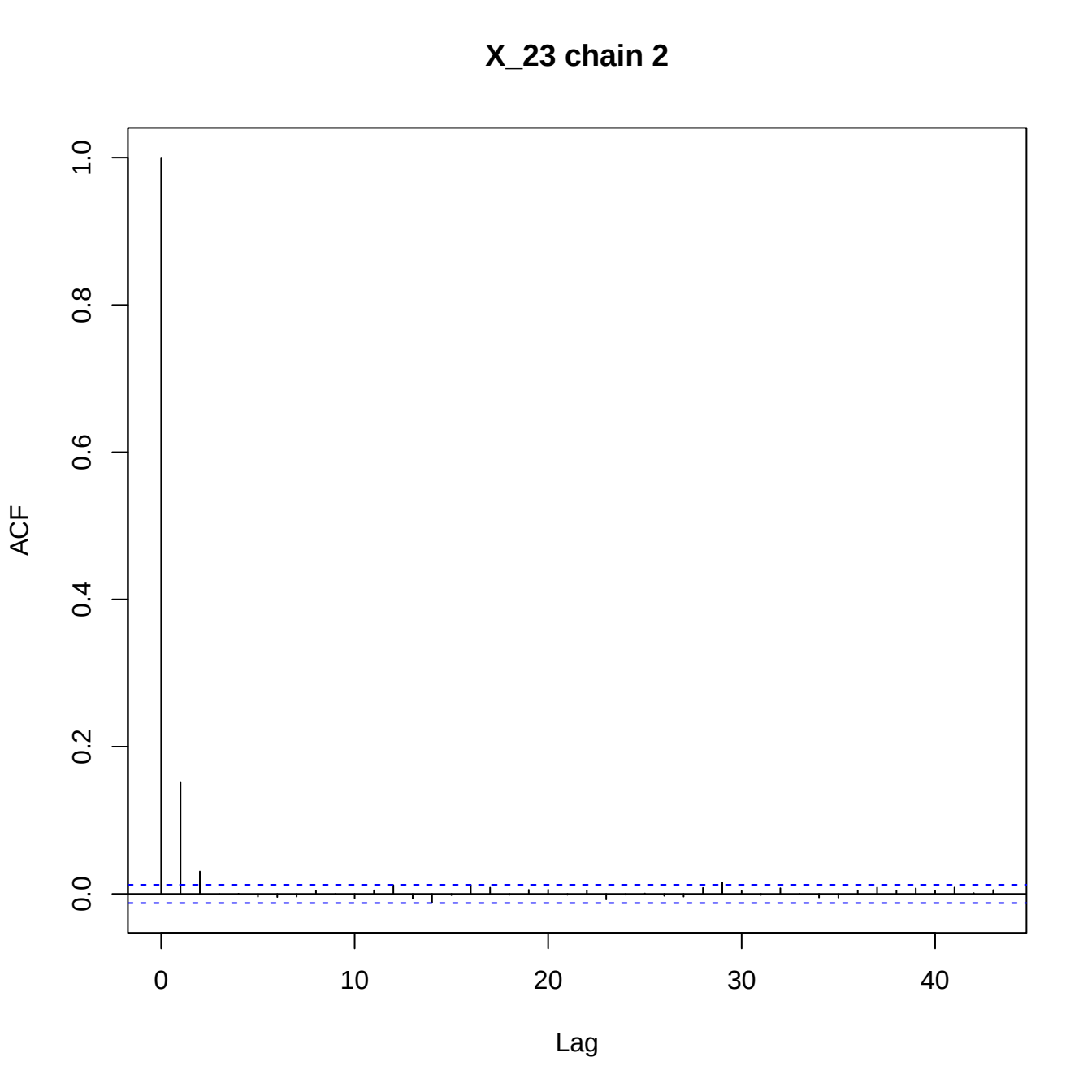
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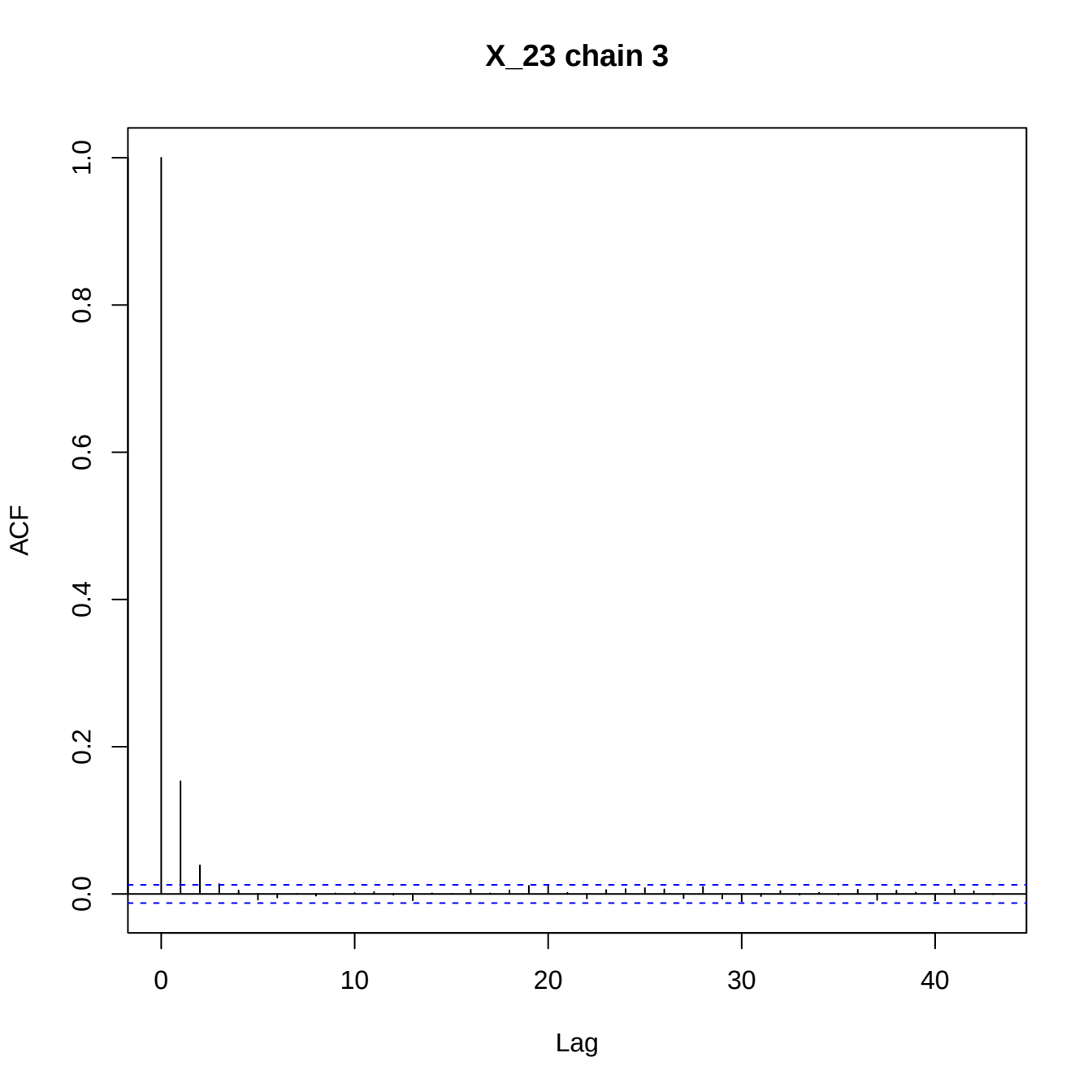
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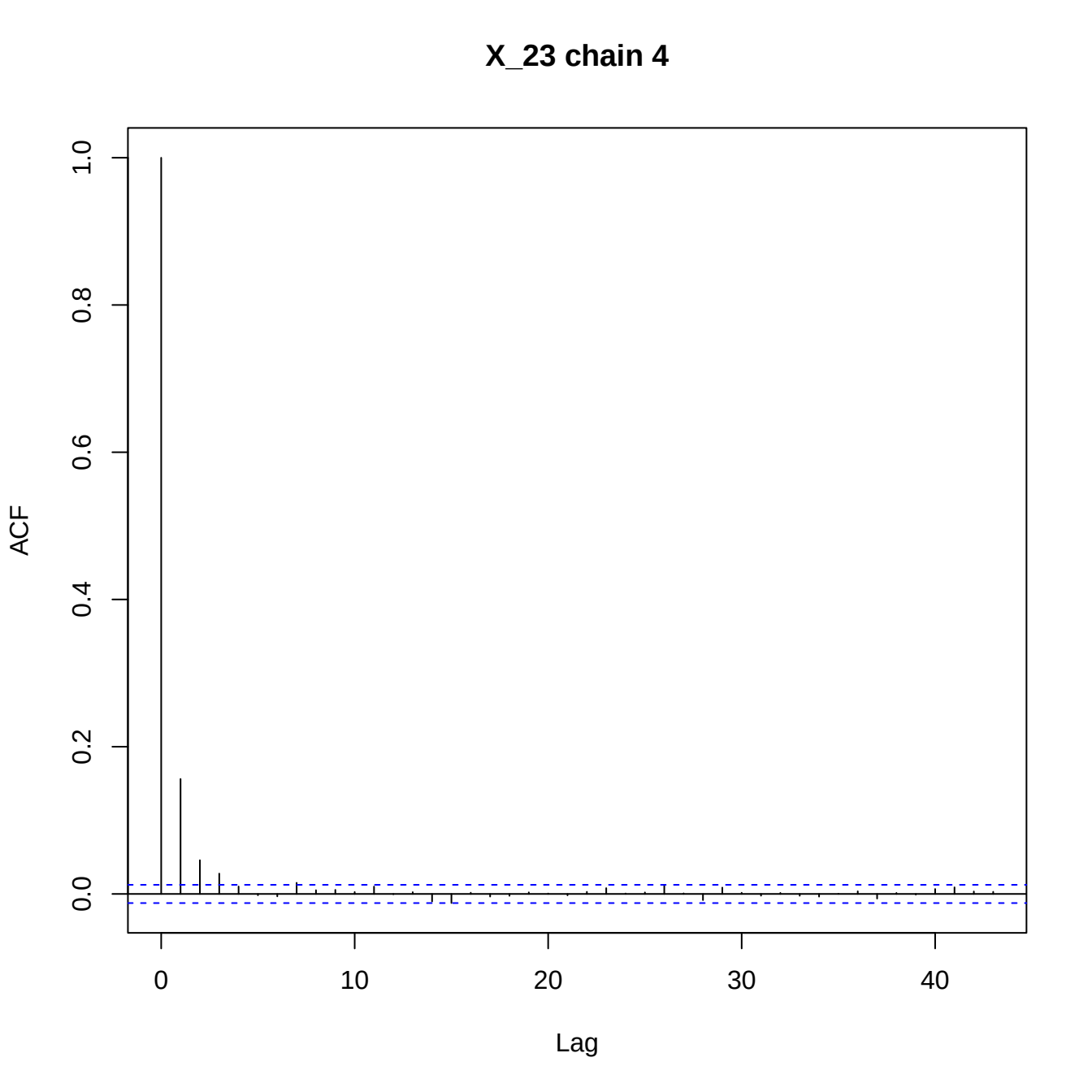
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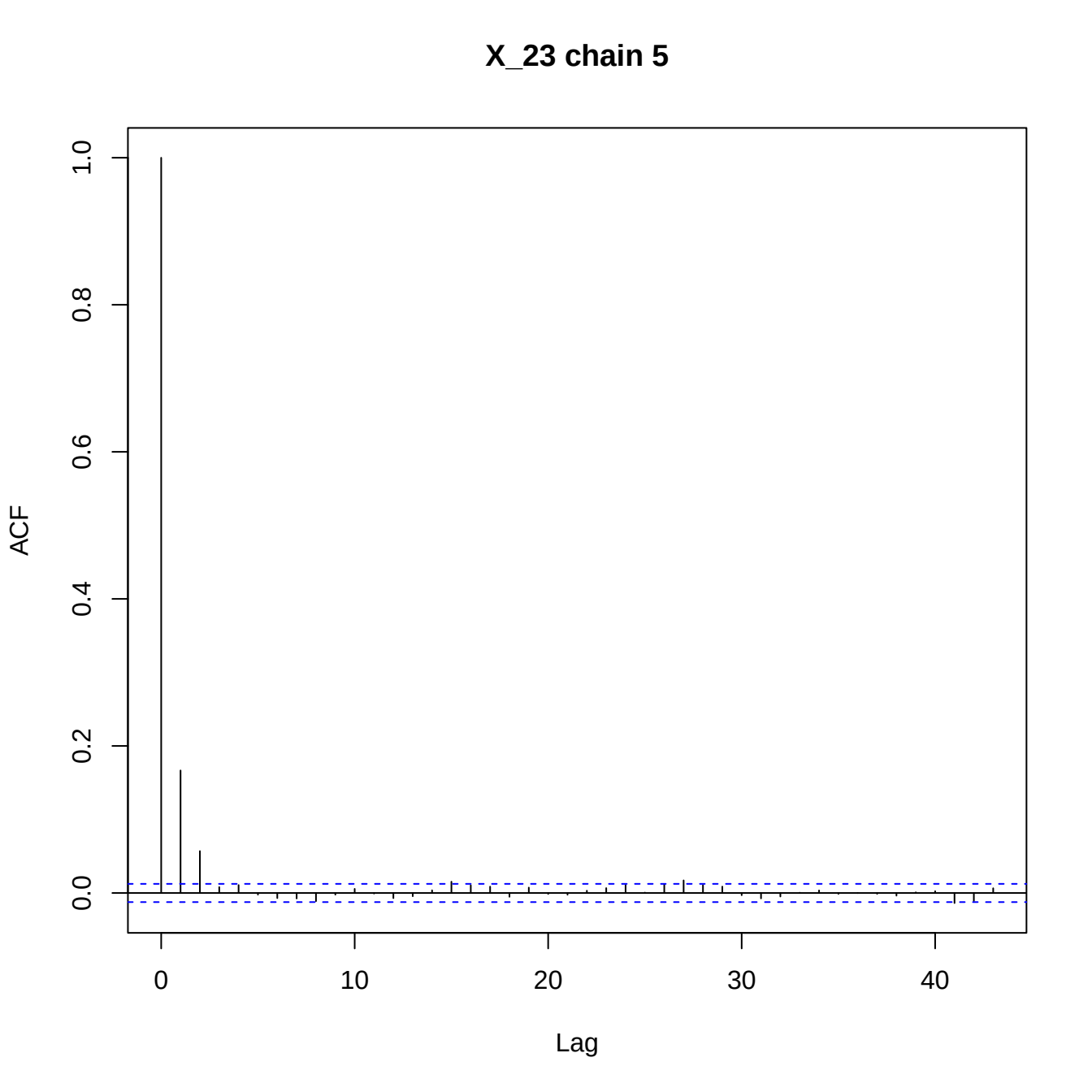
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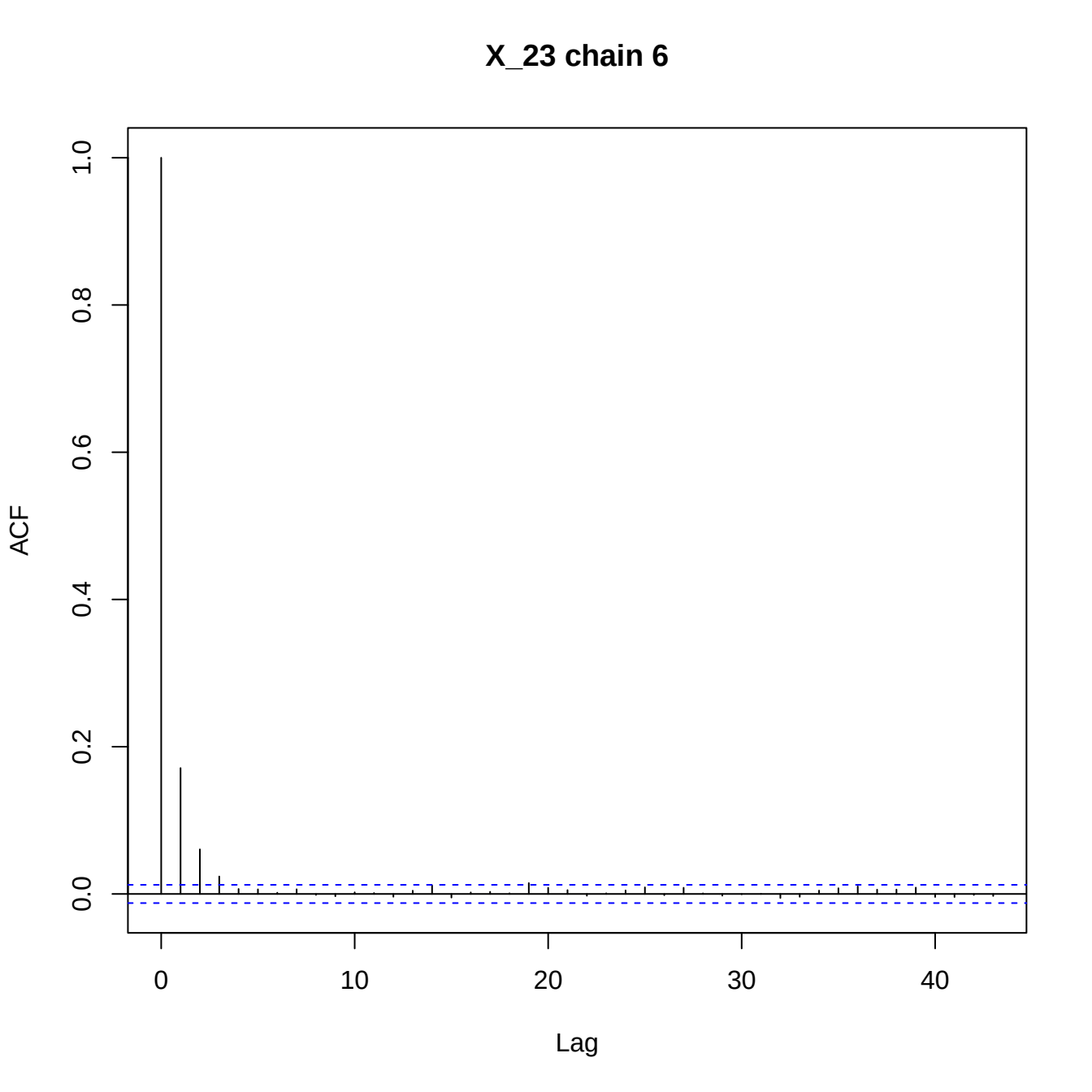
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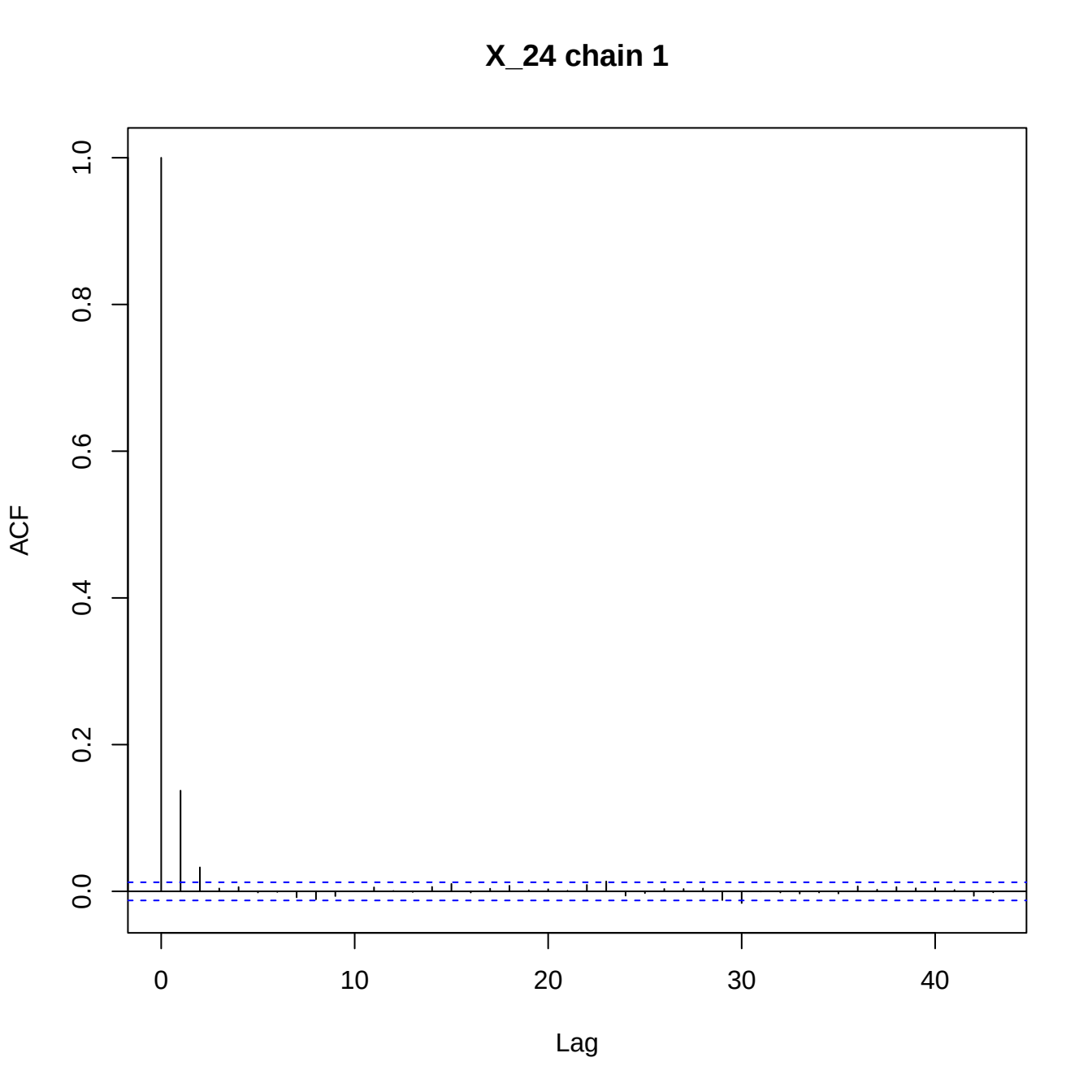
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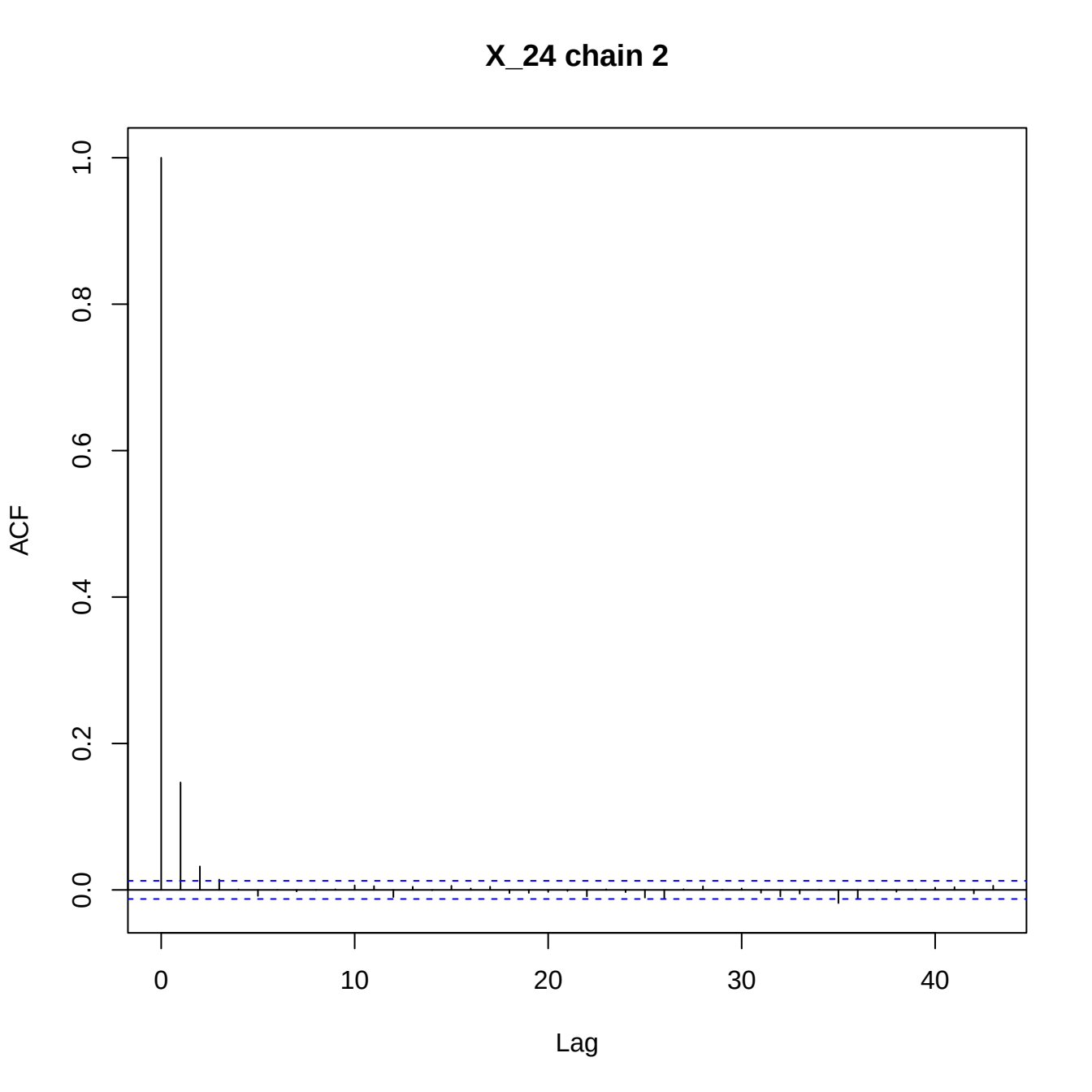
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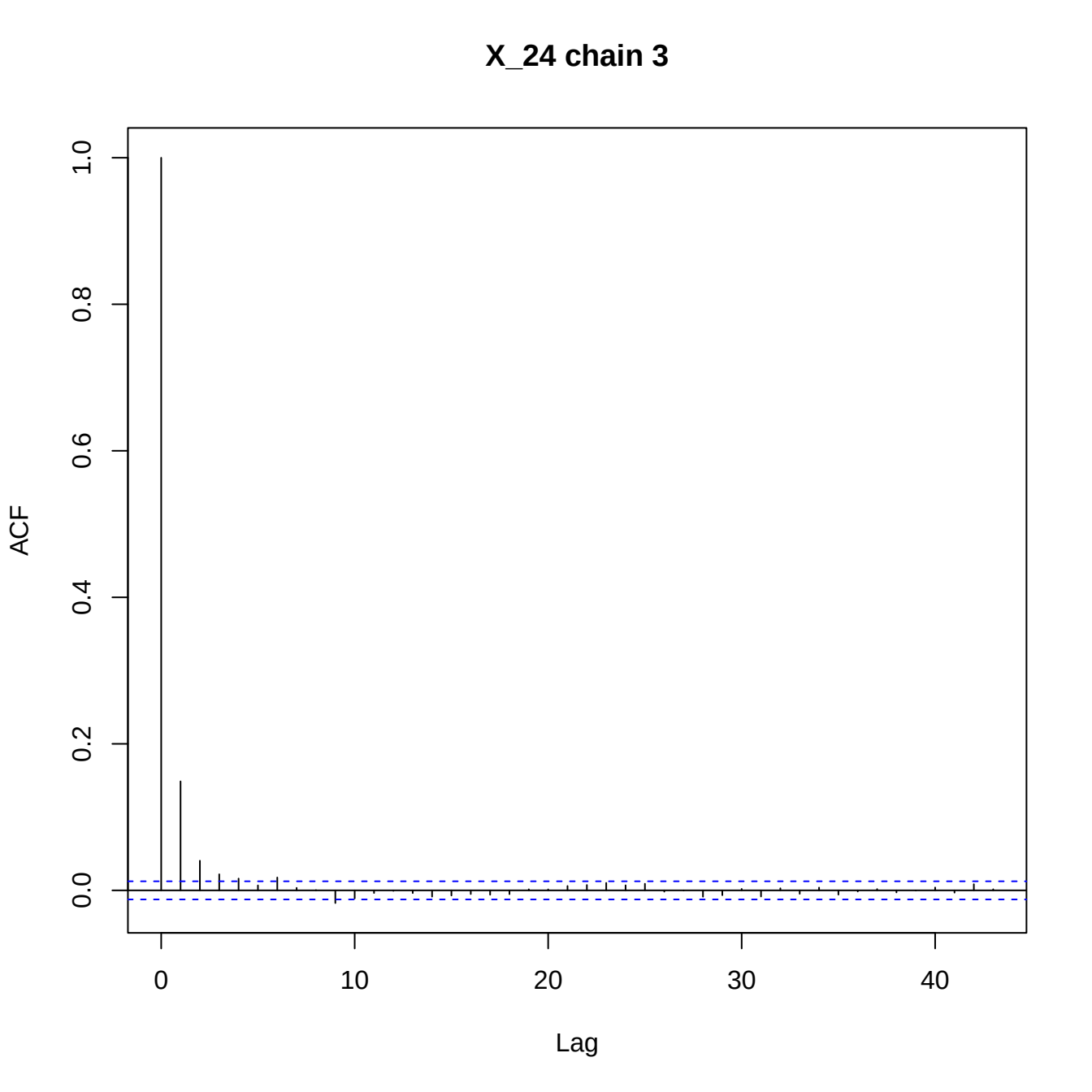
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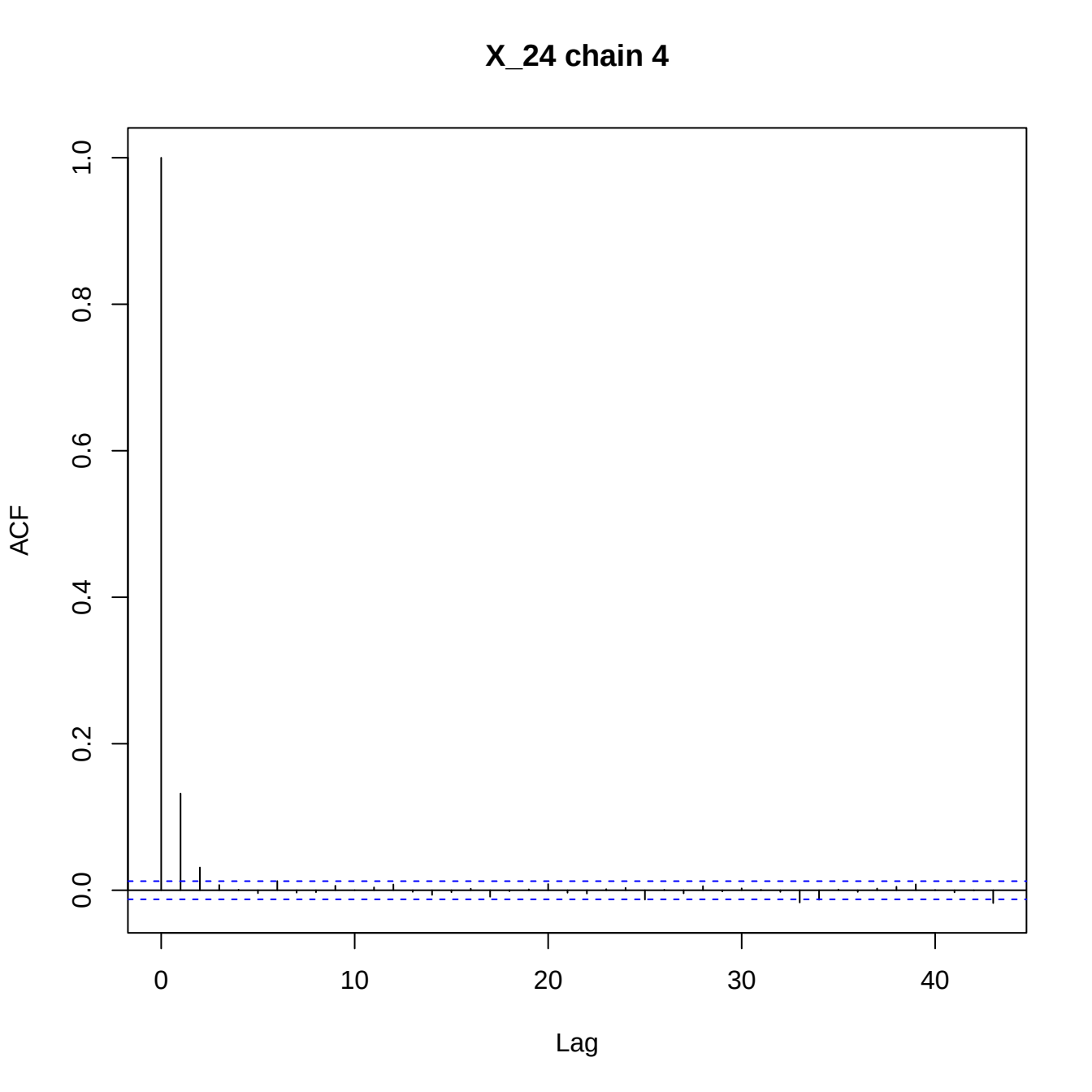
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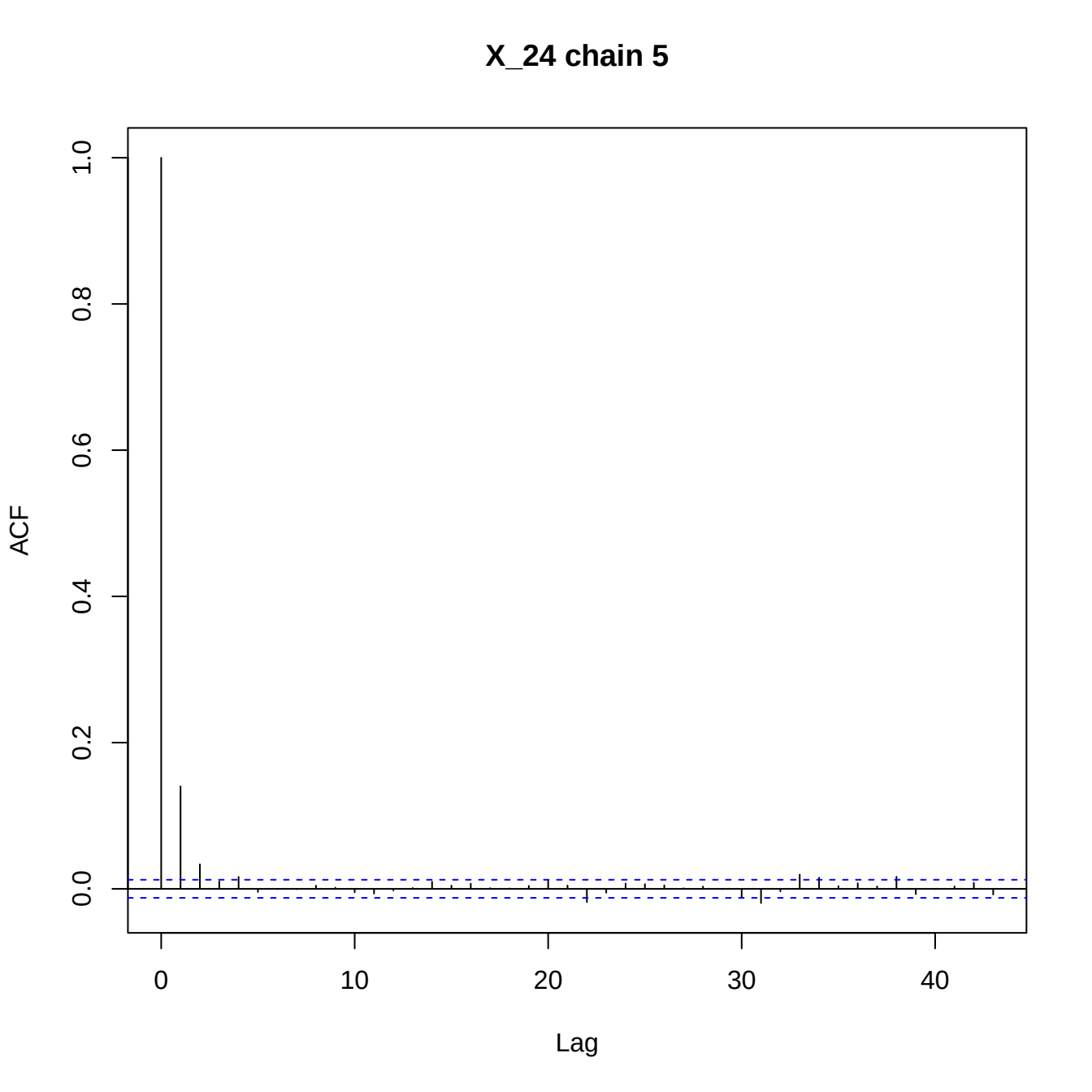
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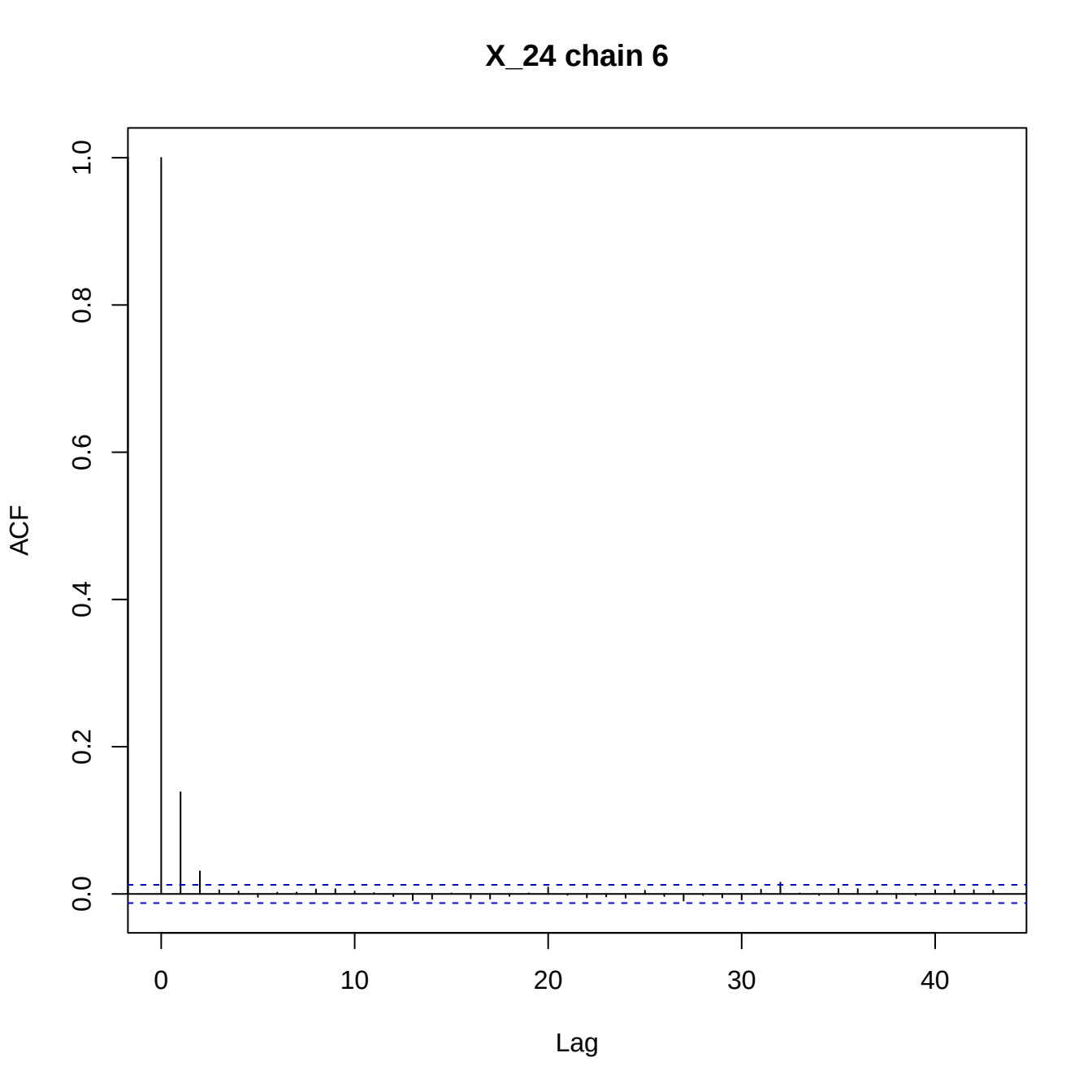
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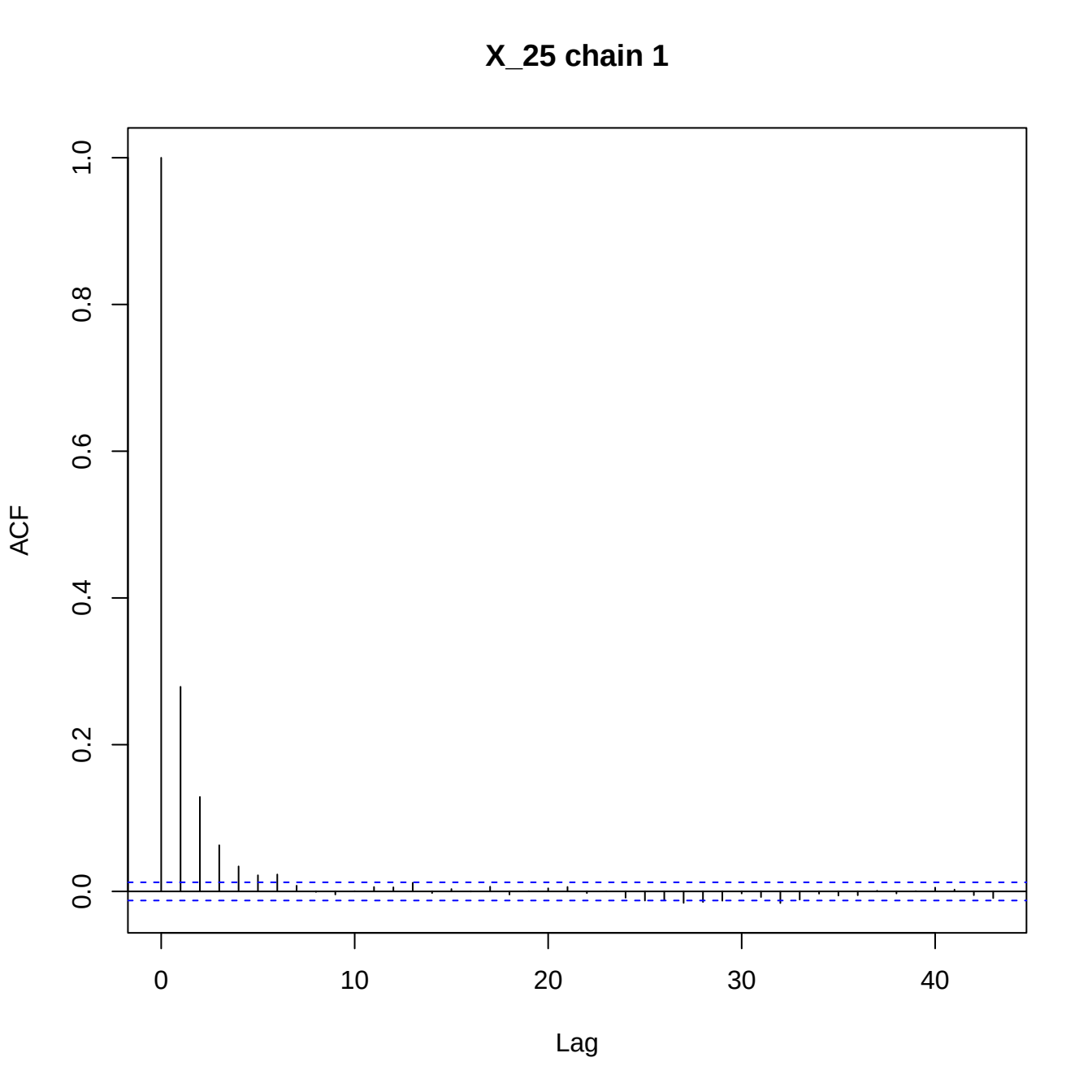
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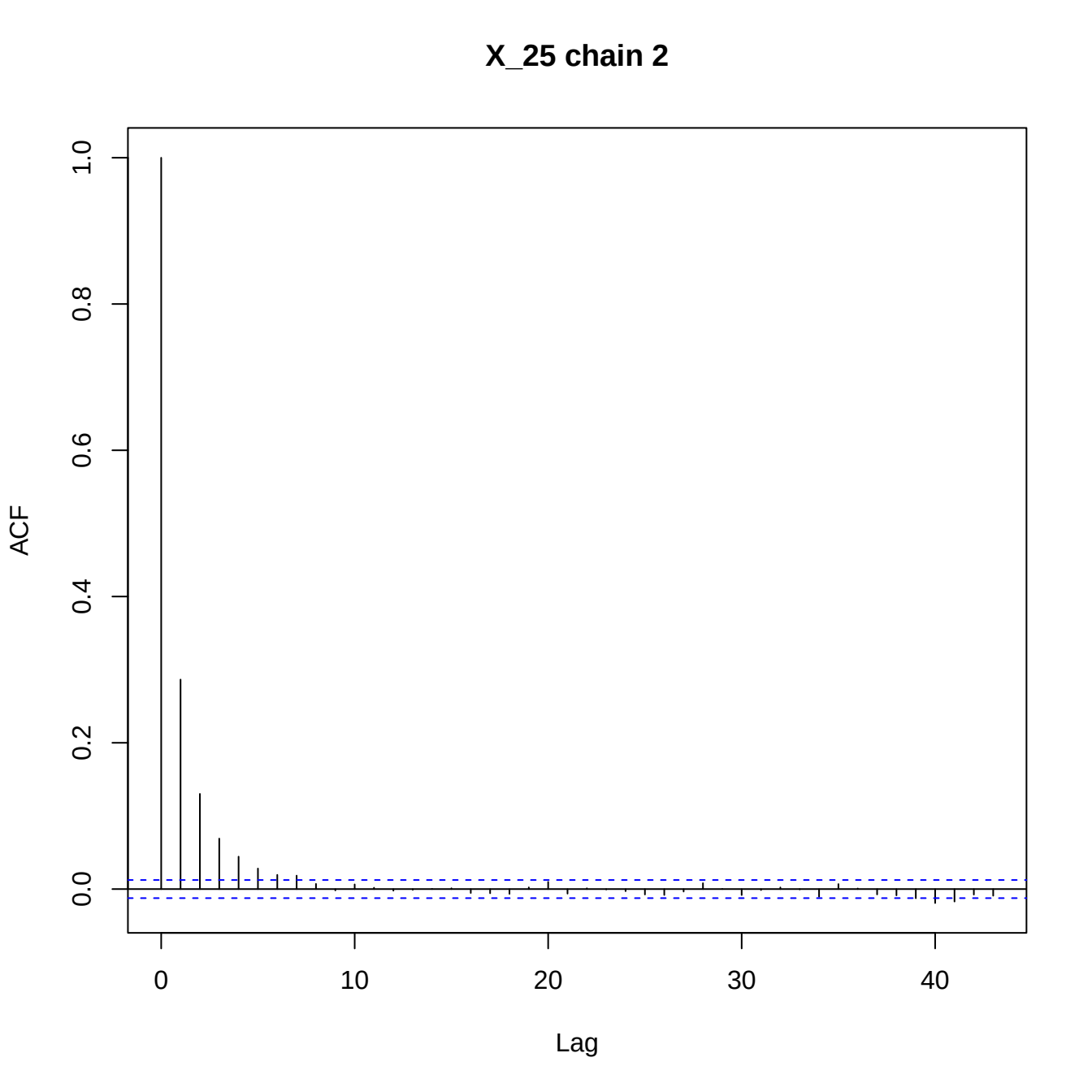
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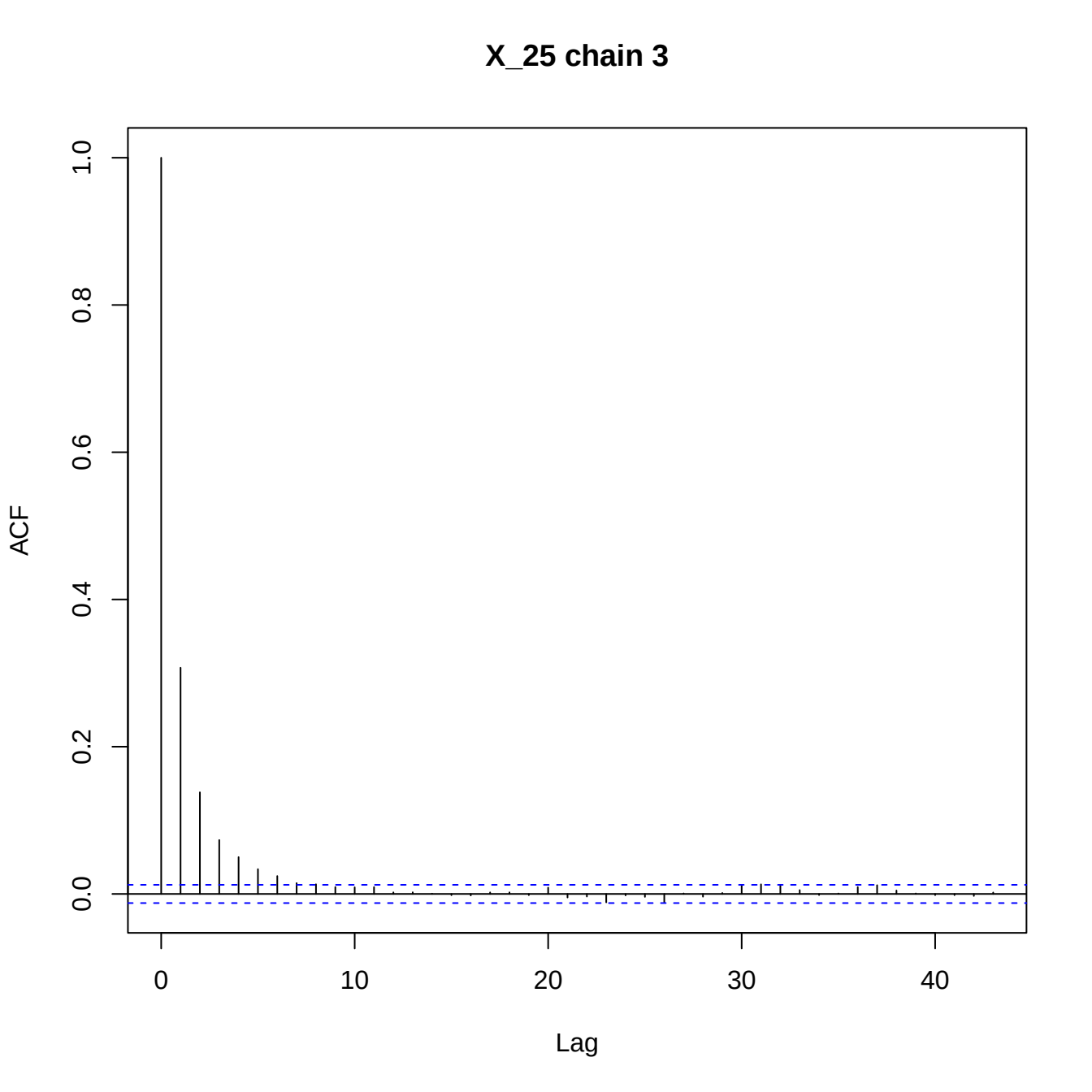
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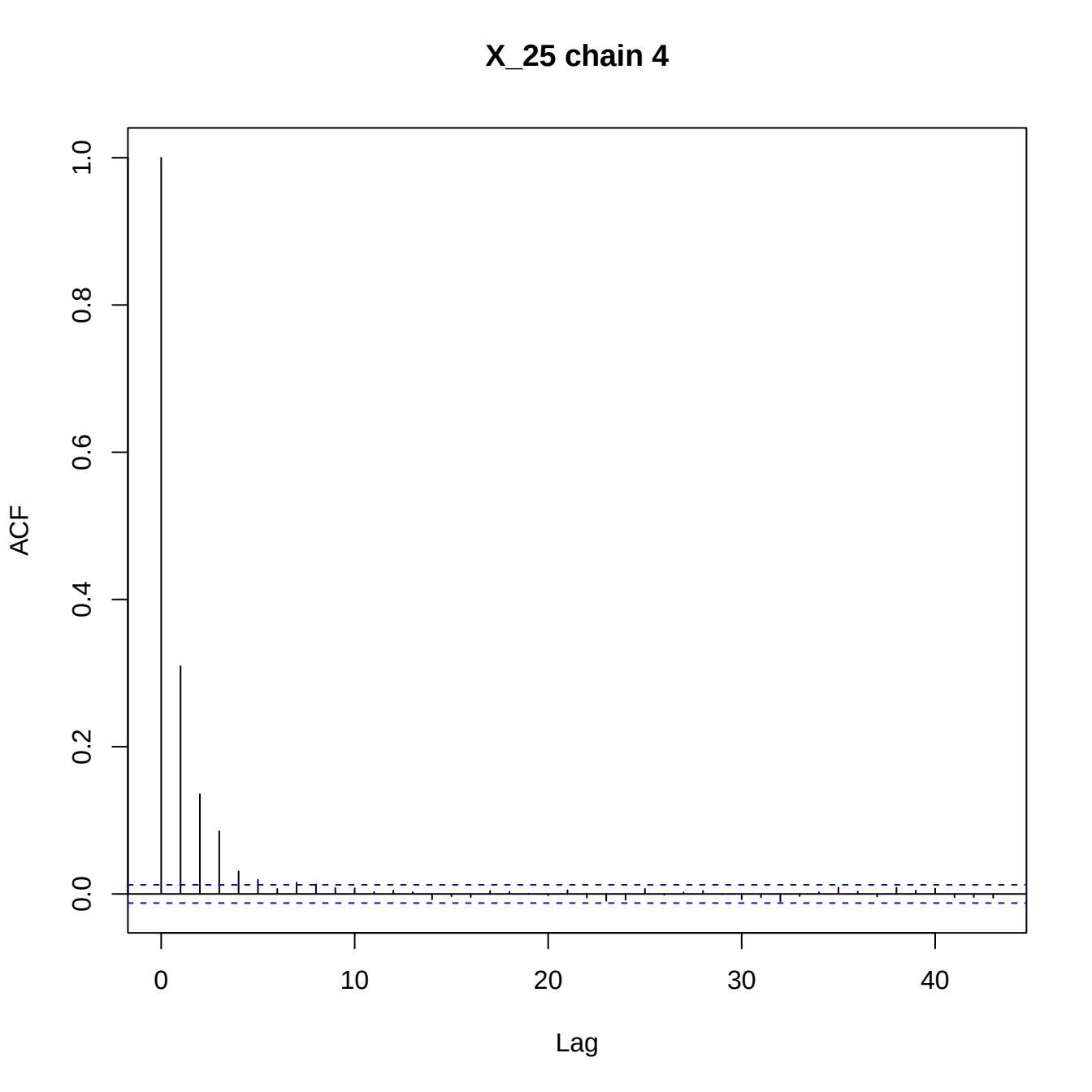
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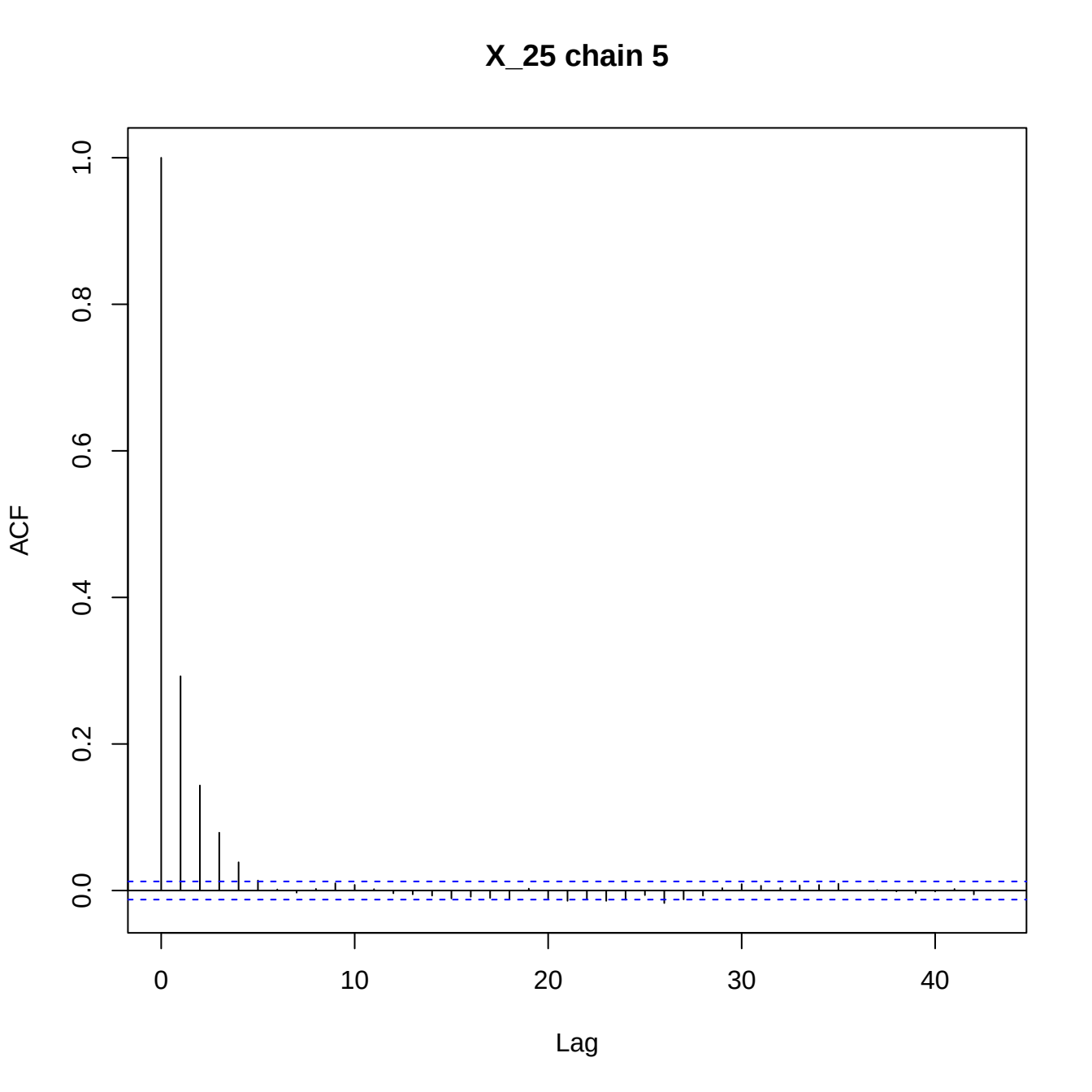
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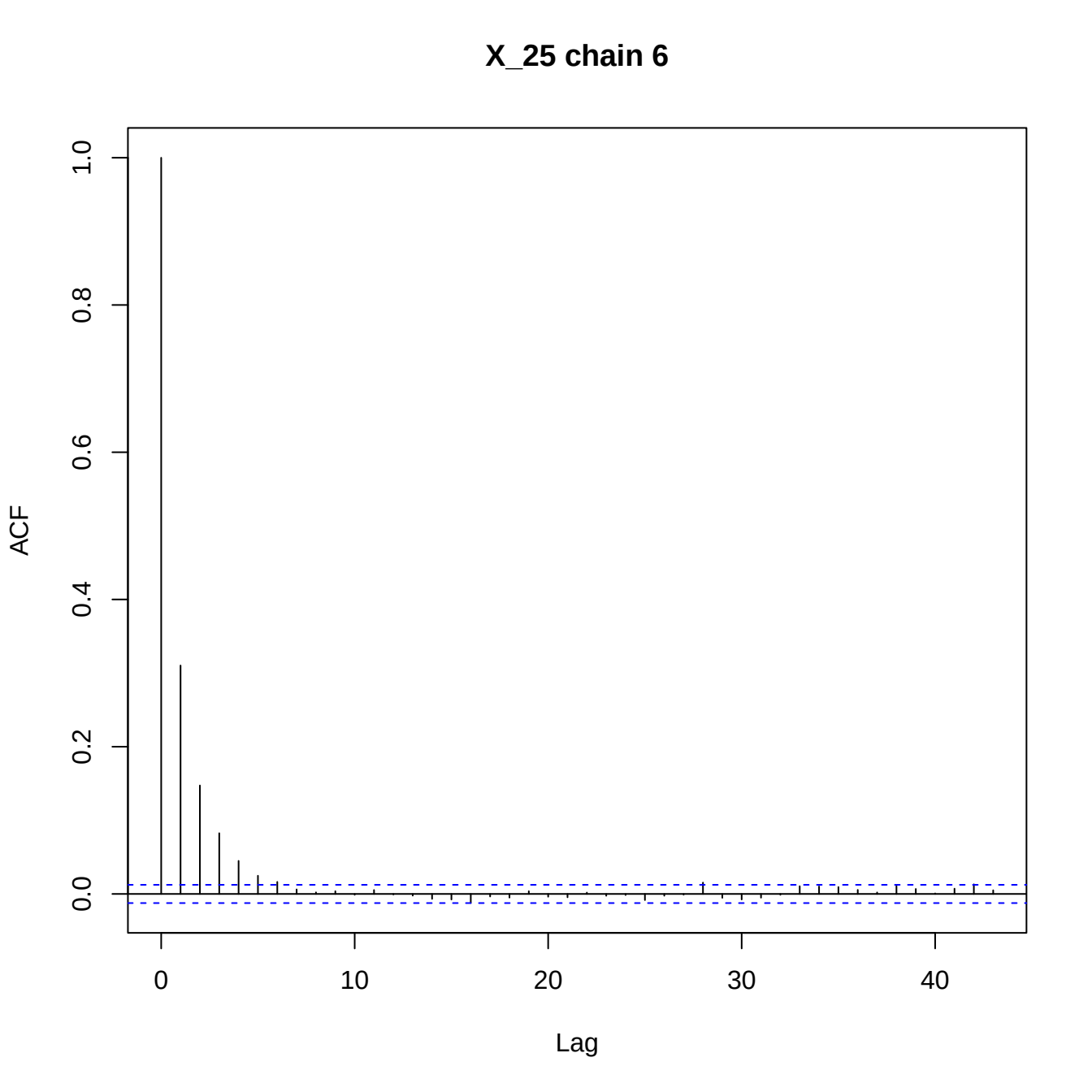
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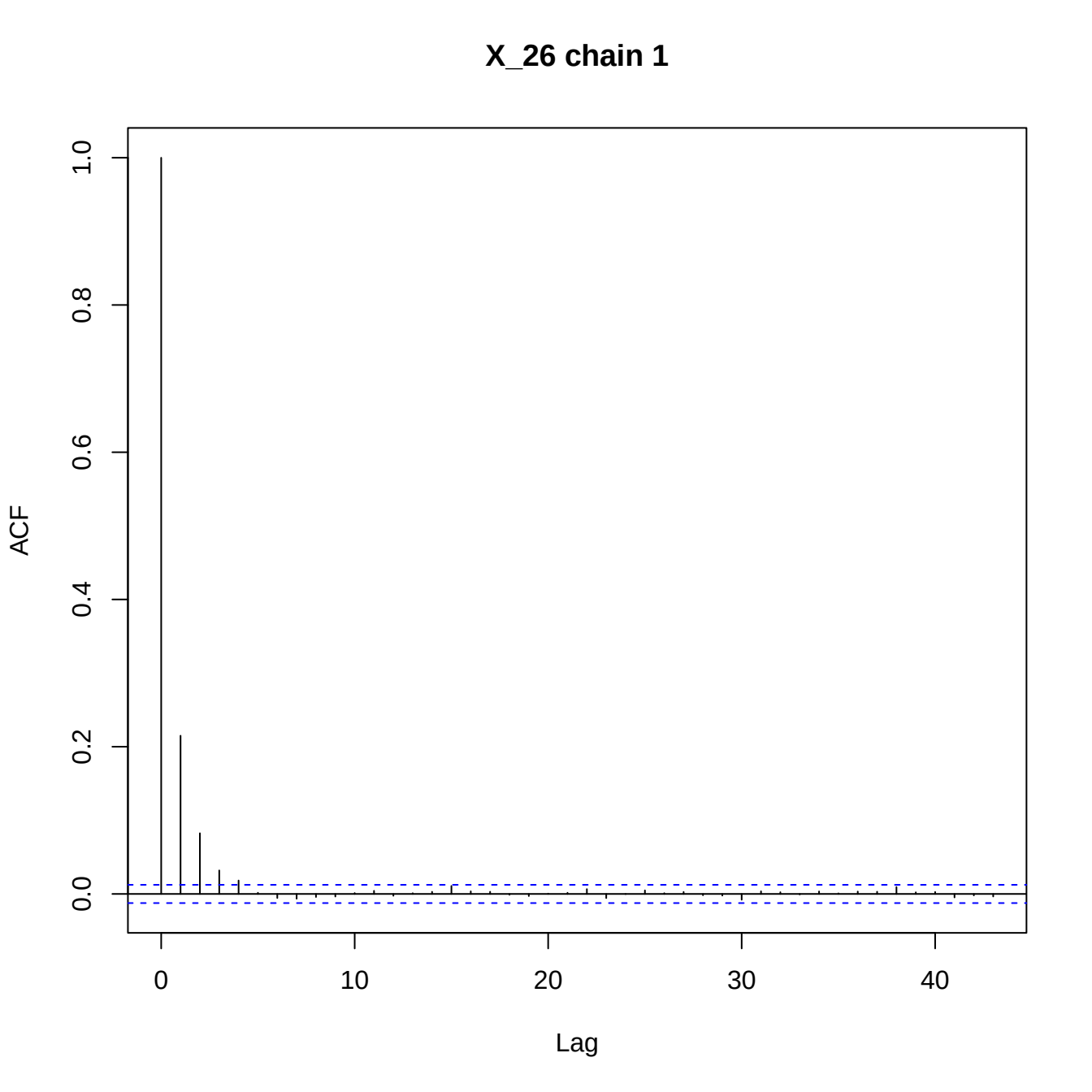
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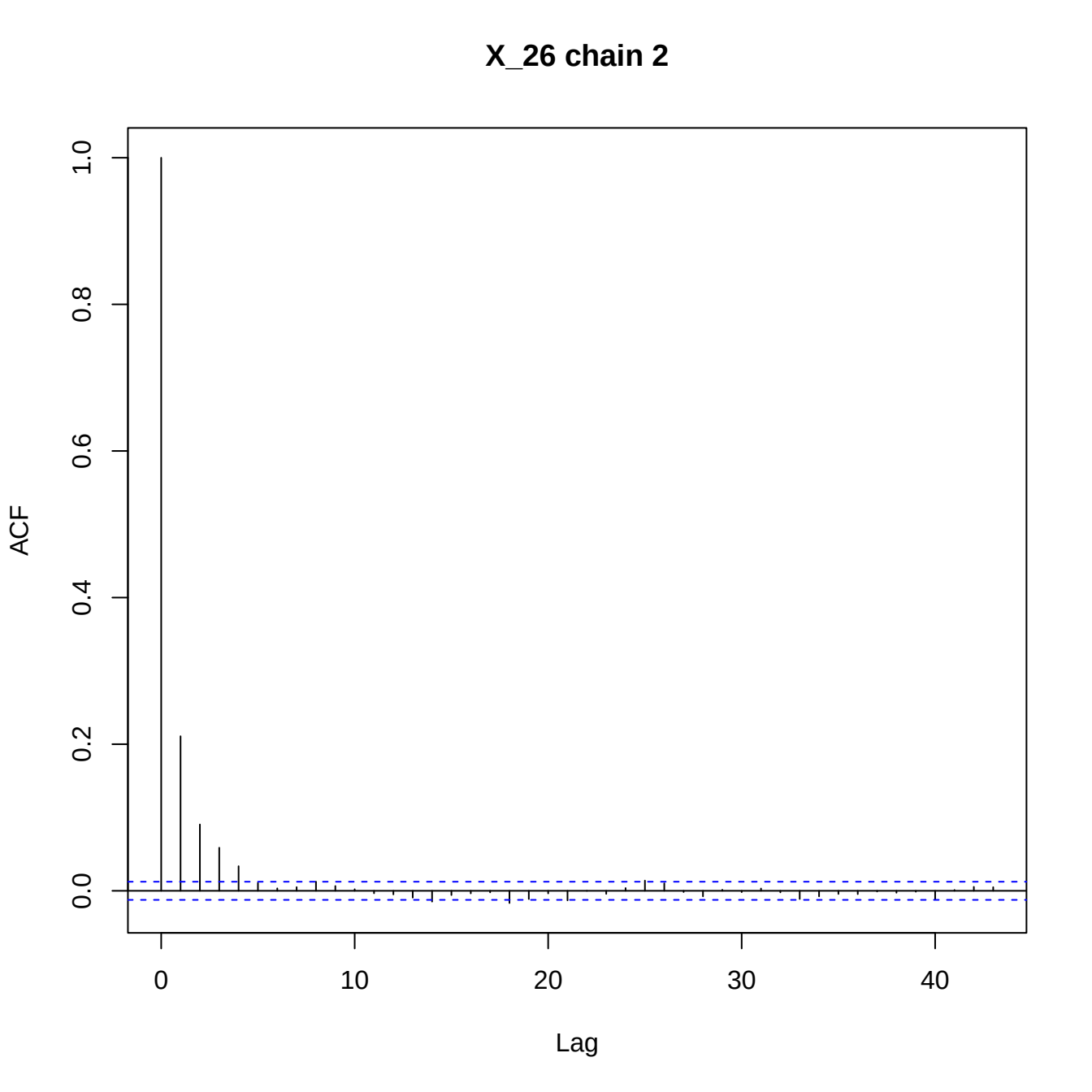
Lag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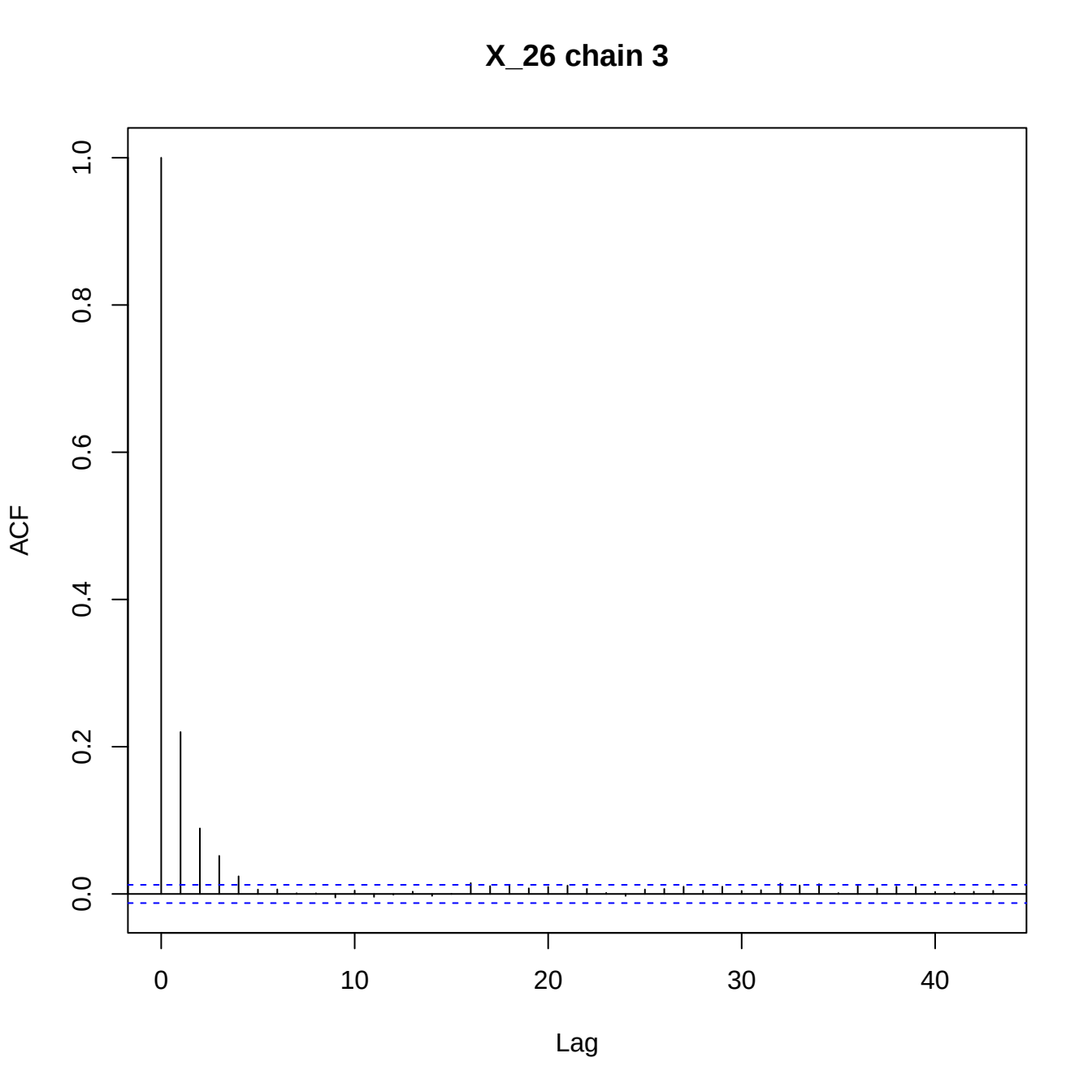
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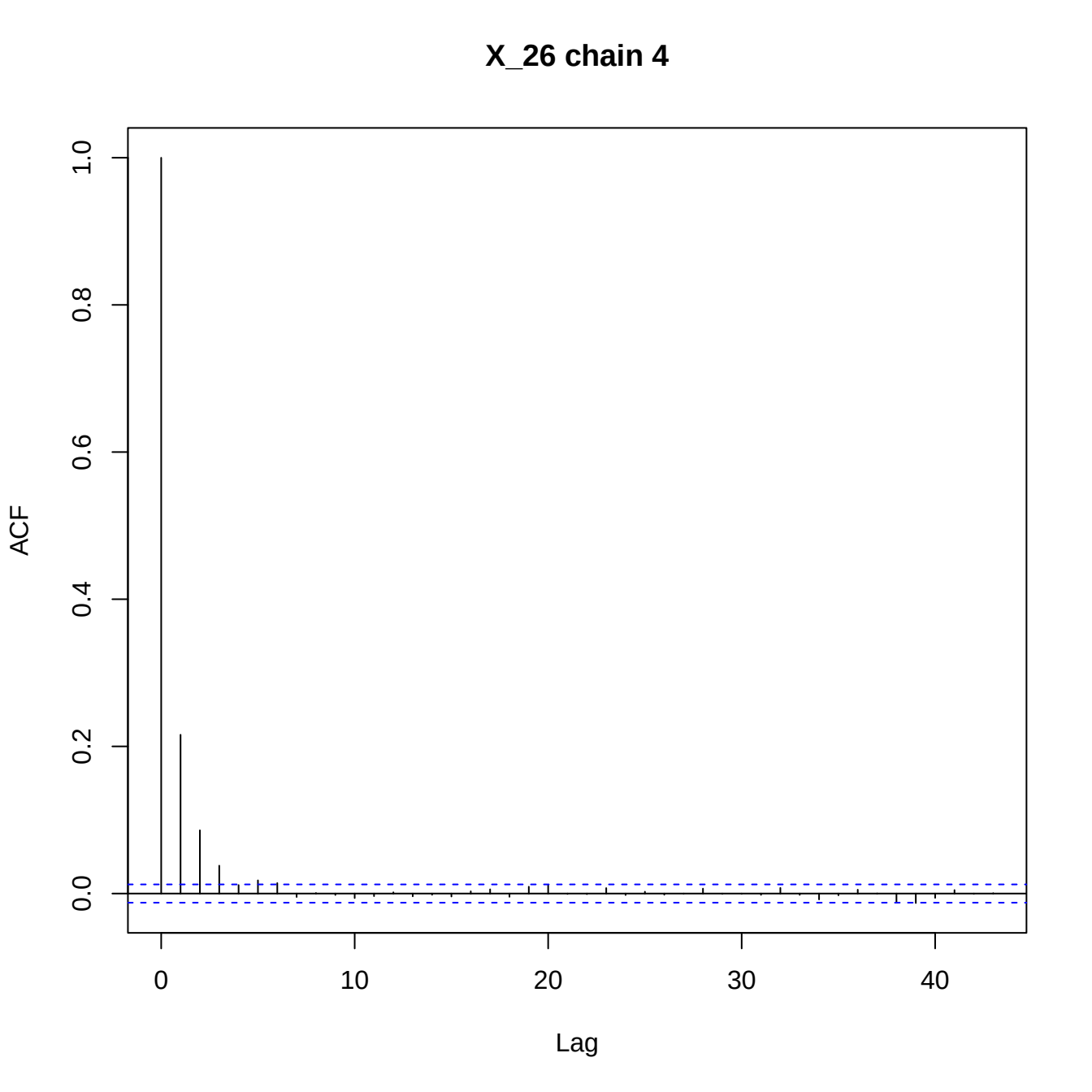
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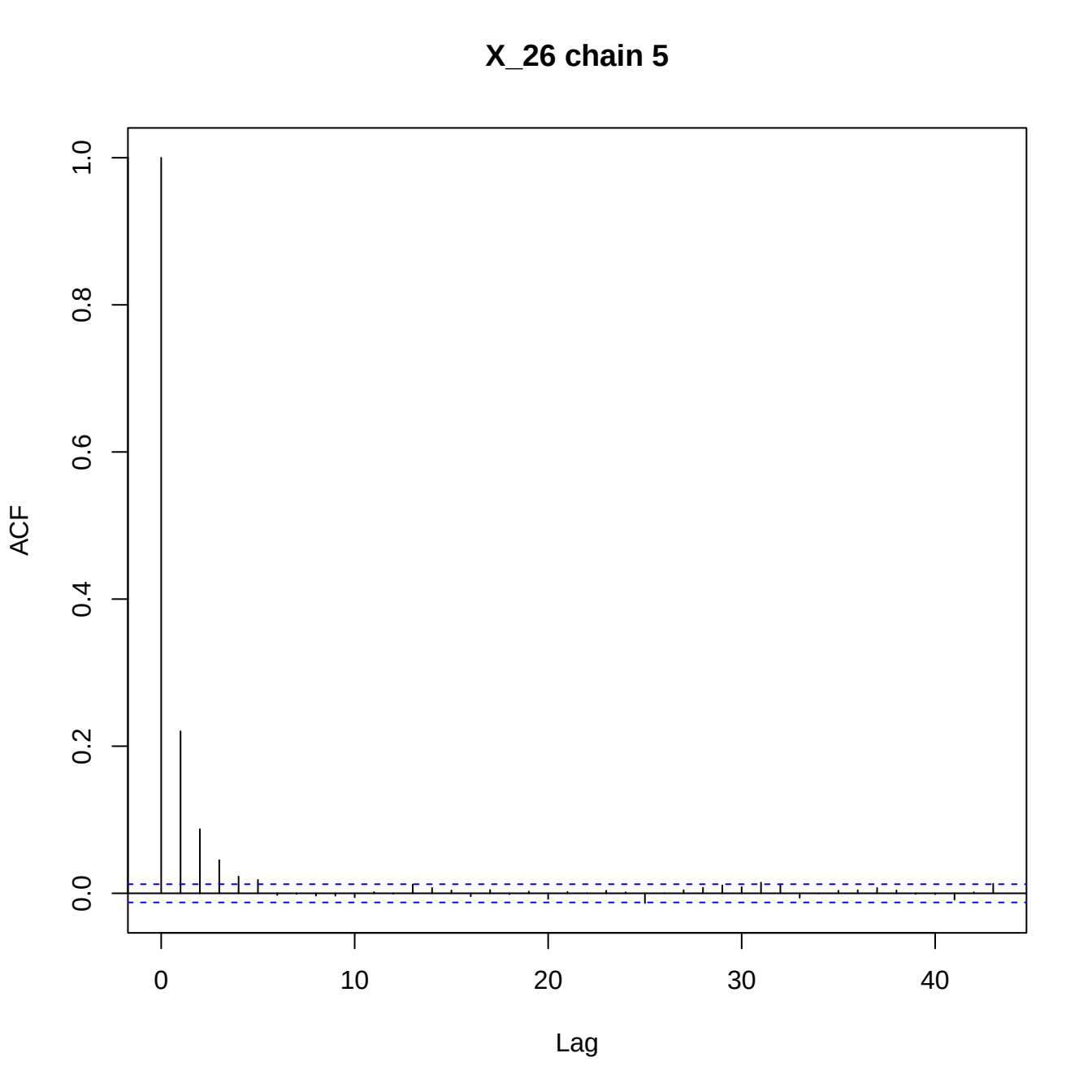
Lag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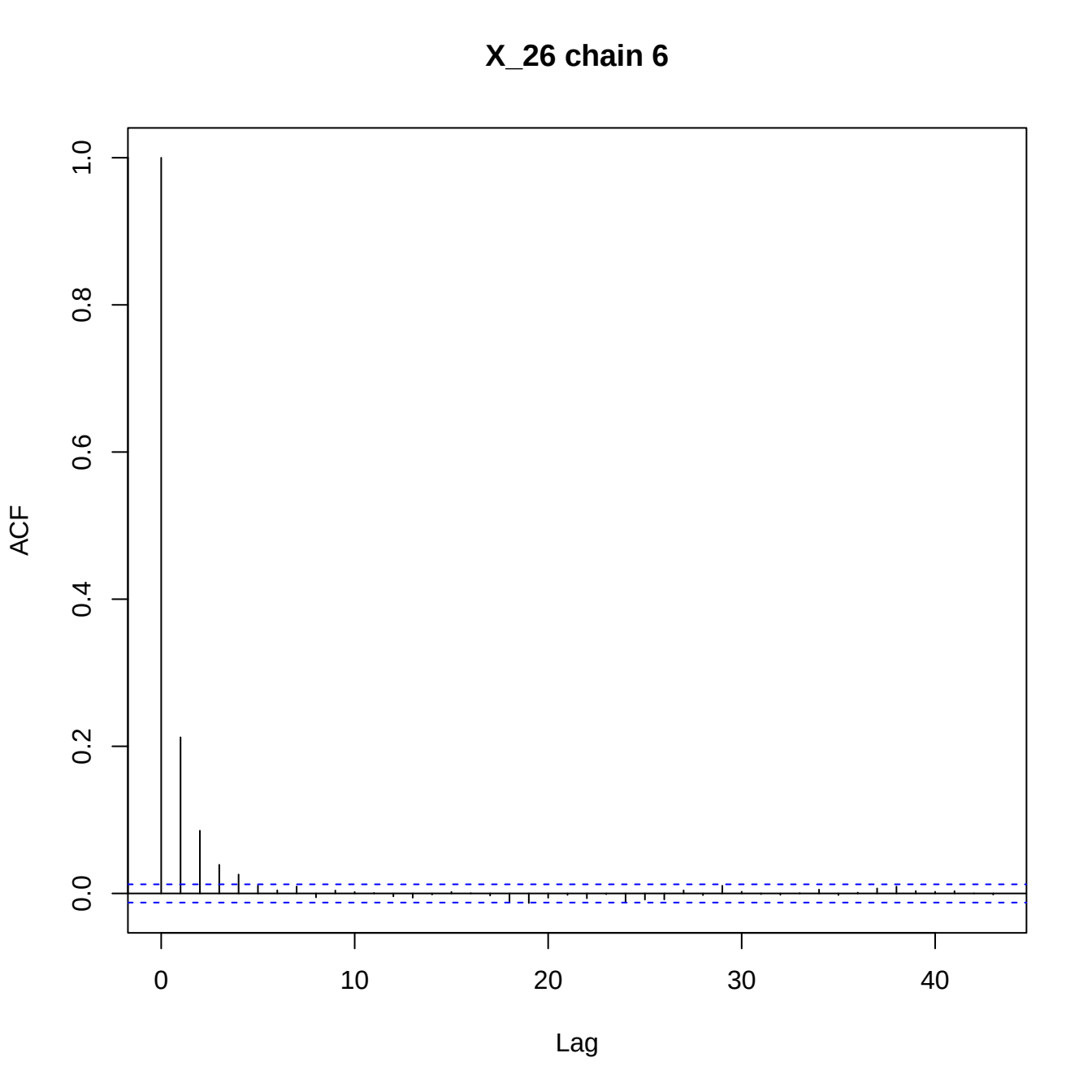
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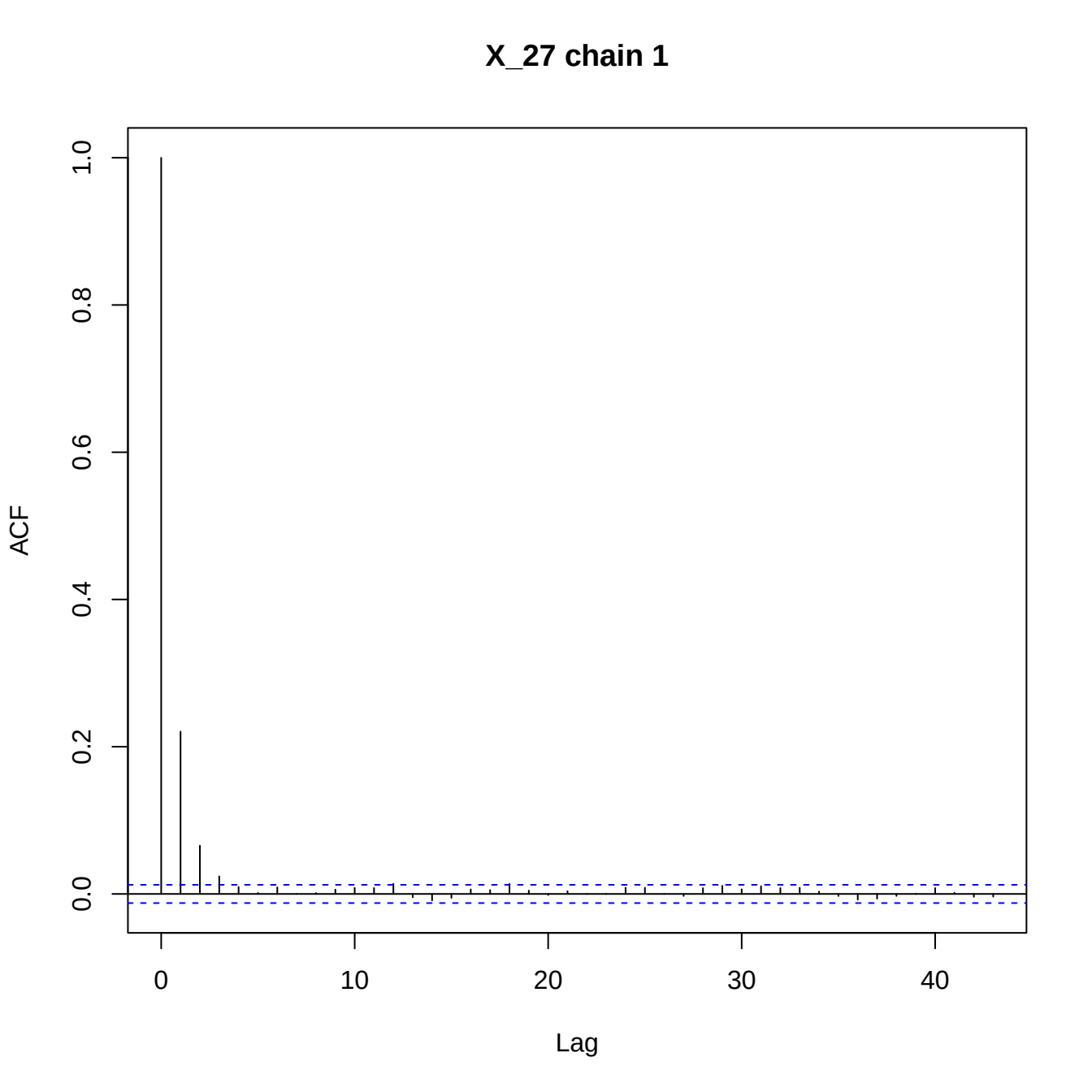
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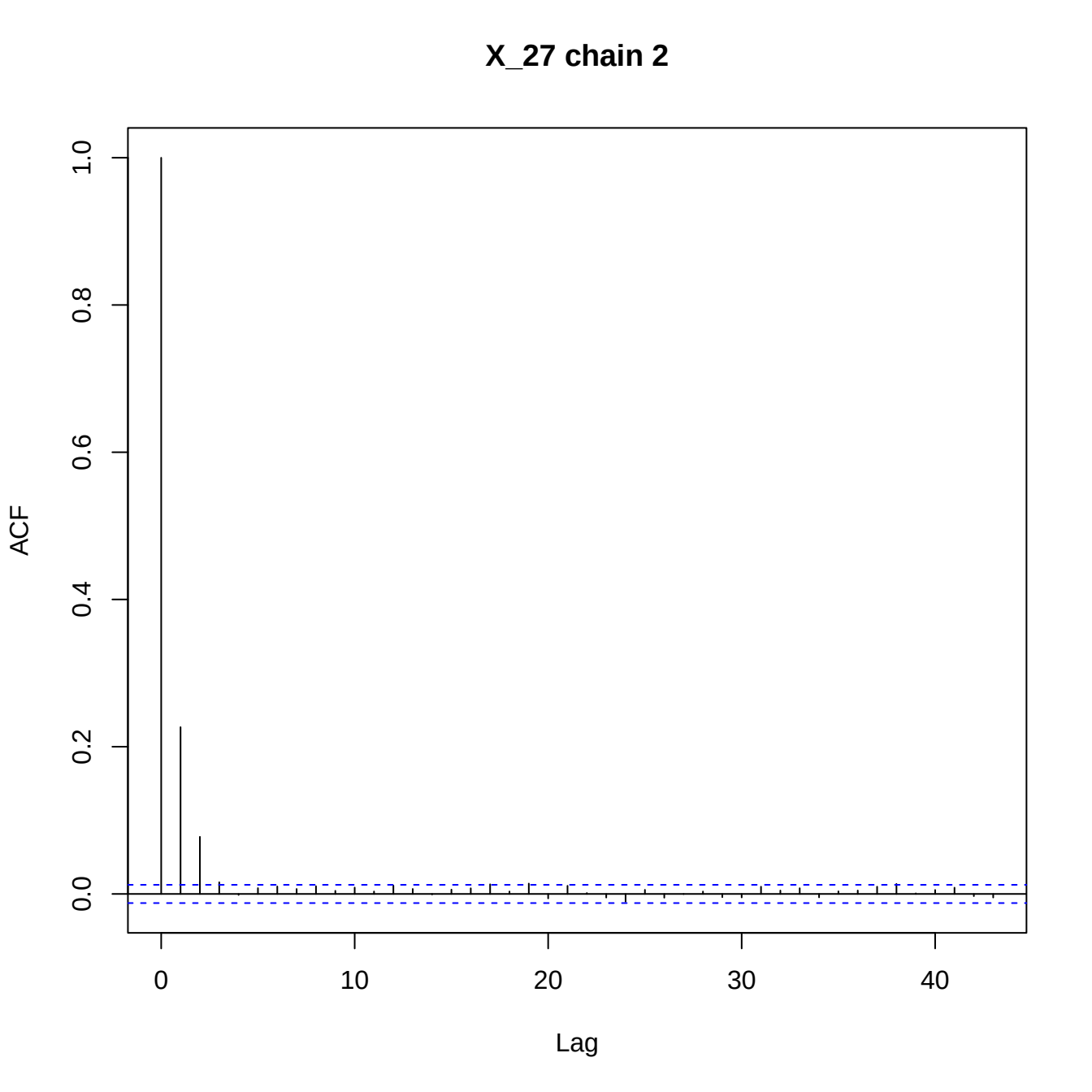
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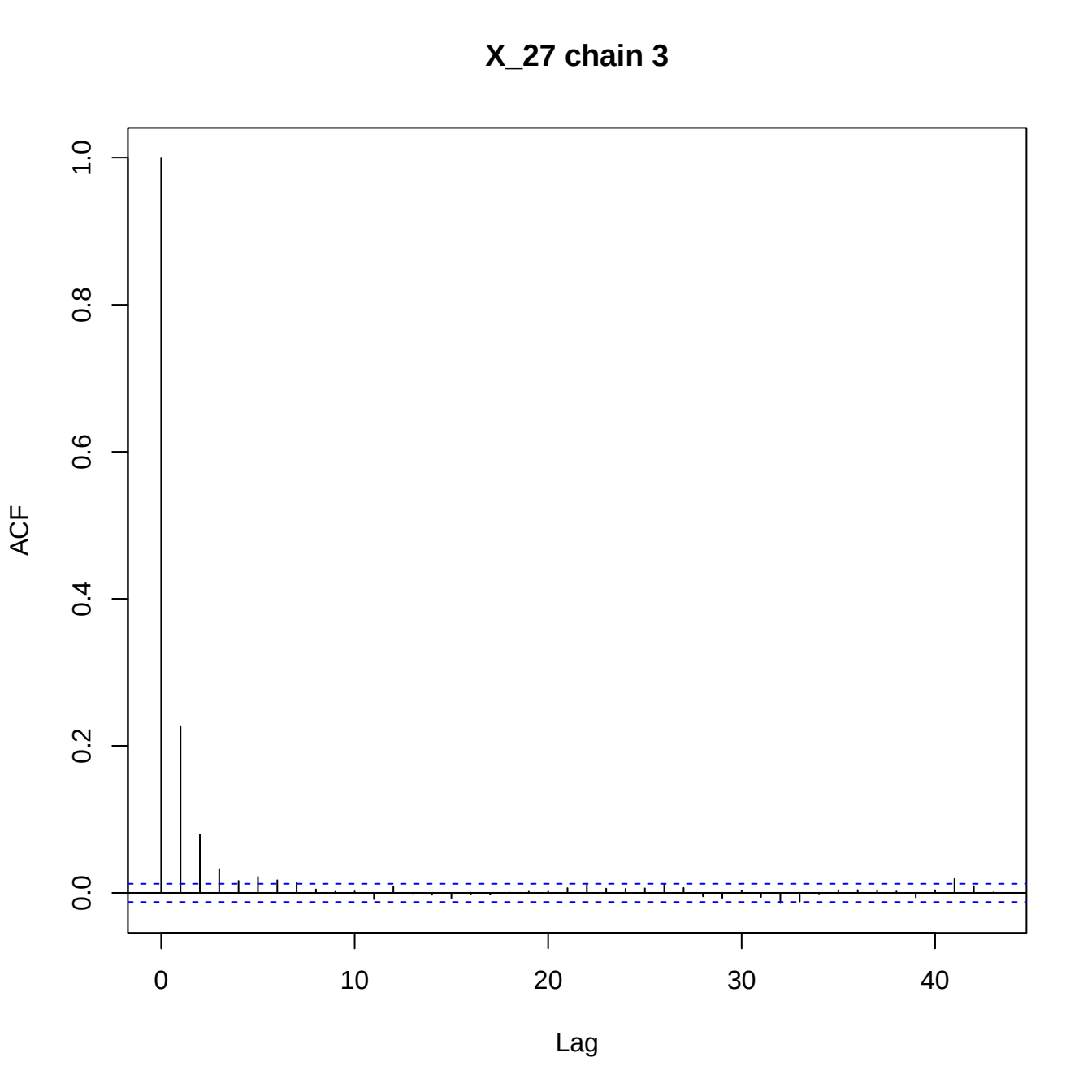
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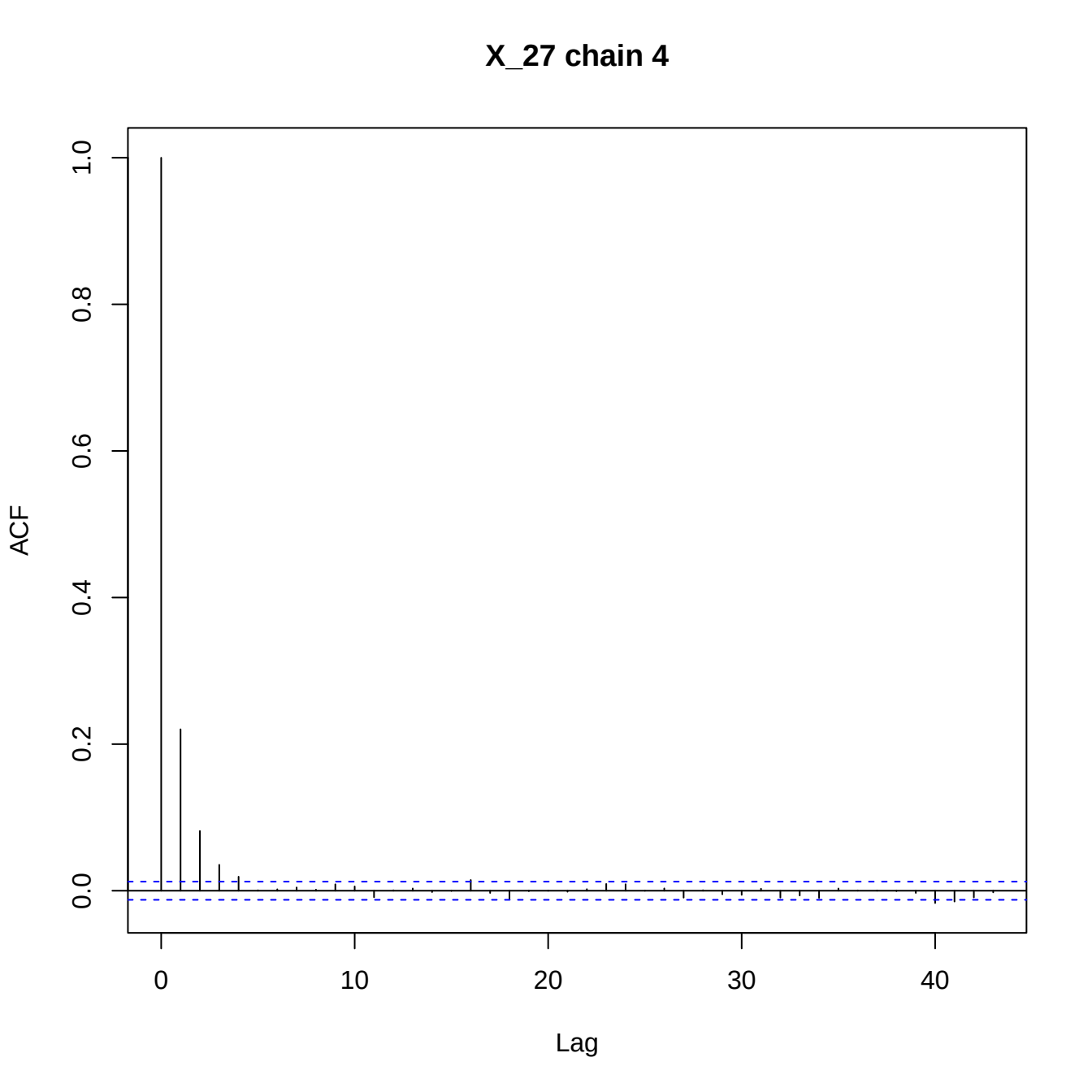
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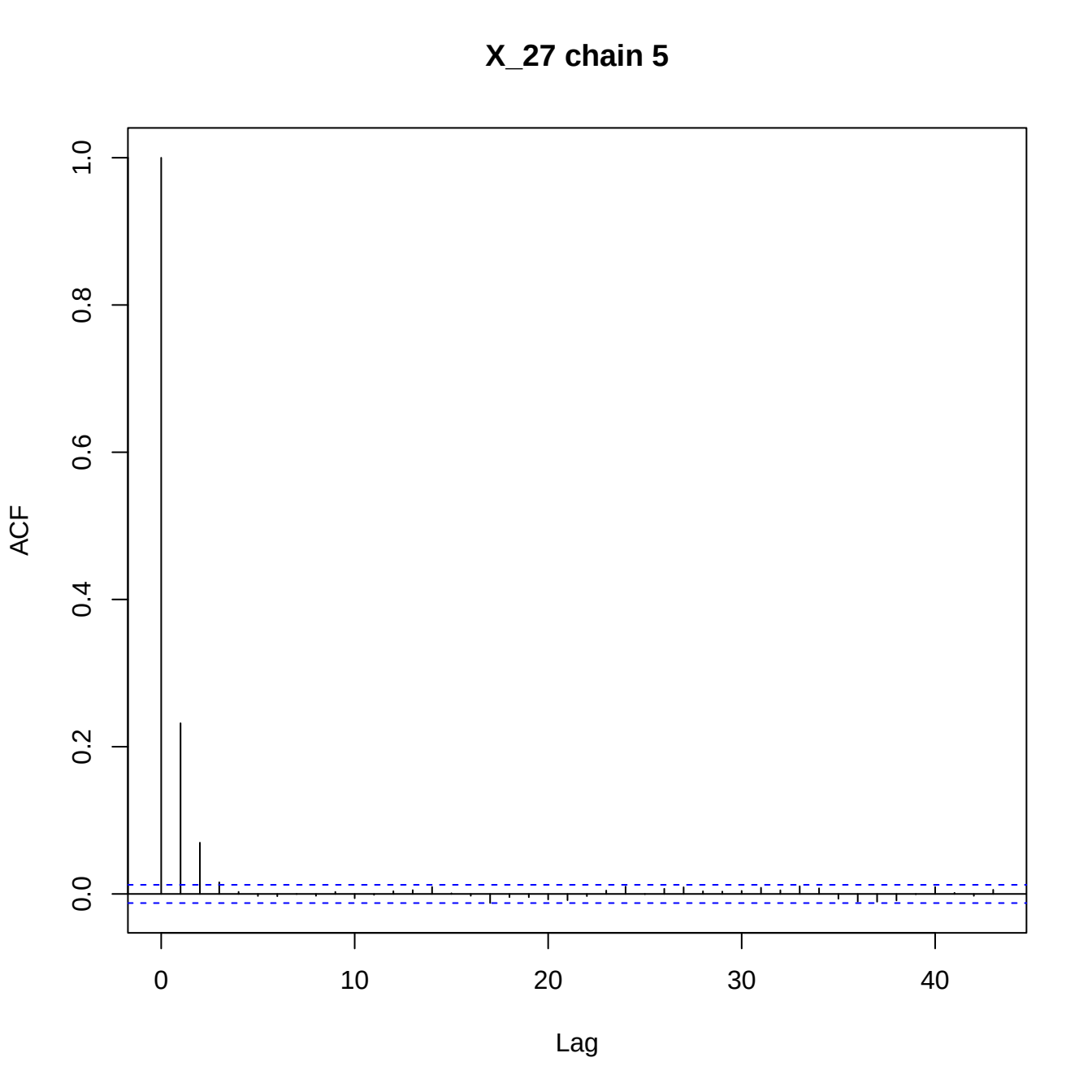
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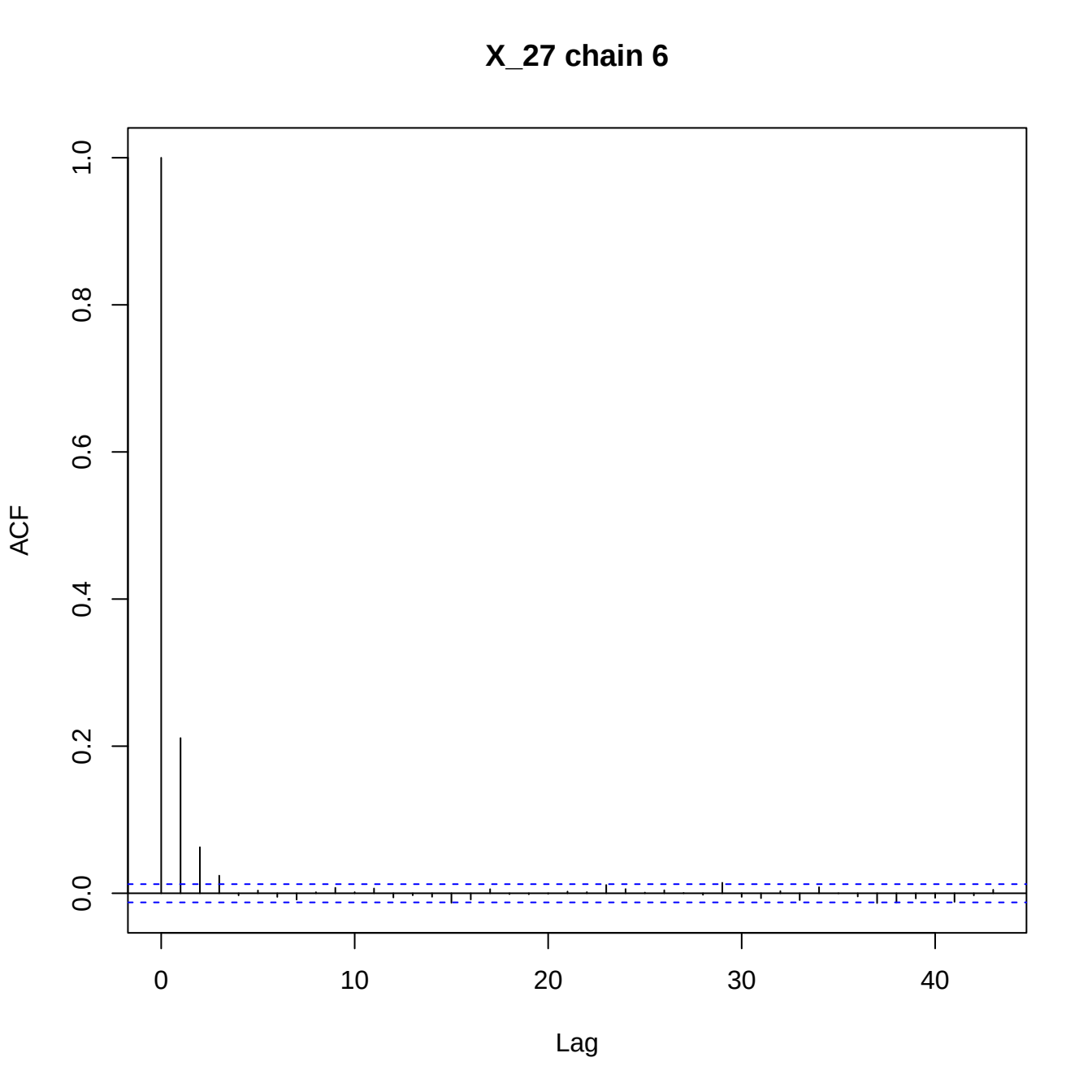
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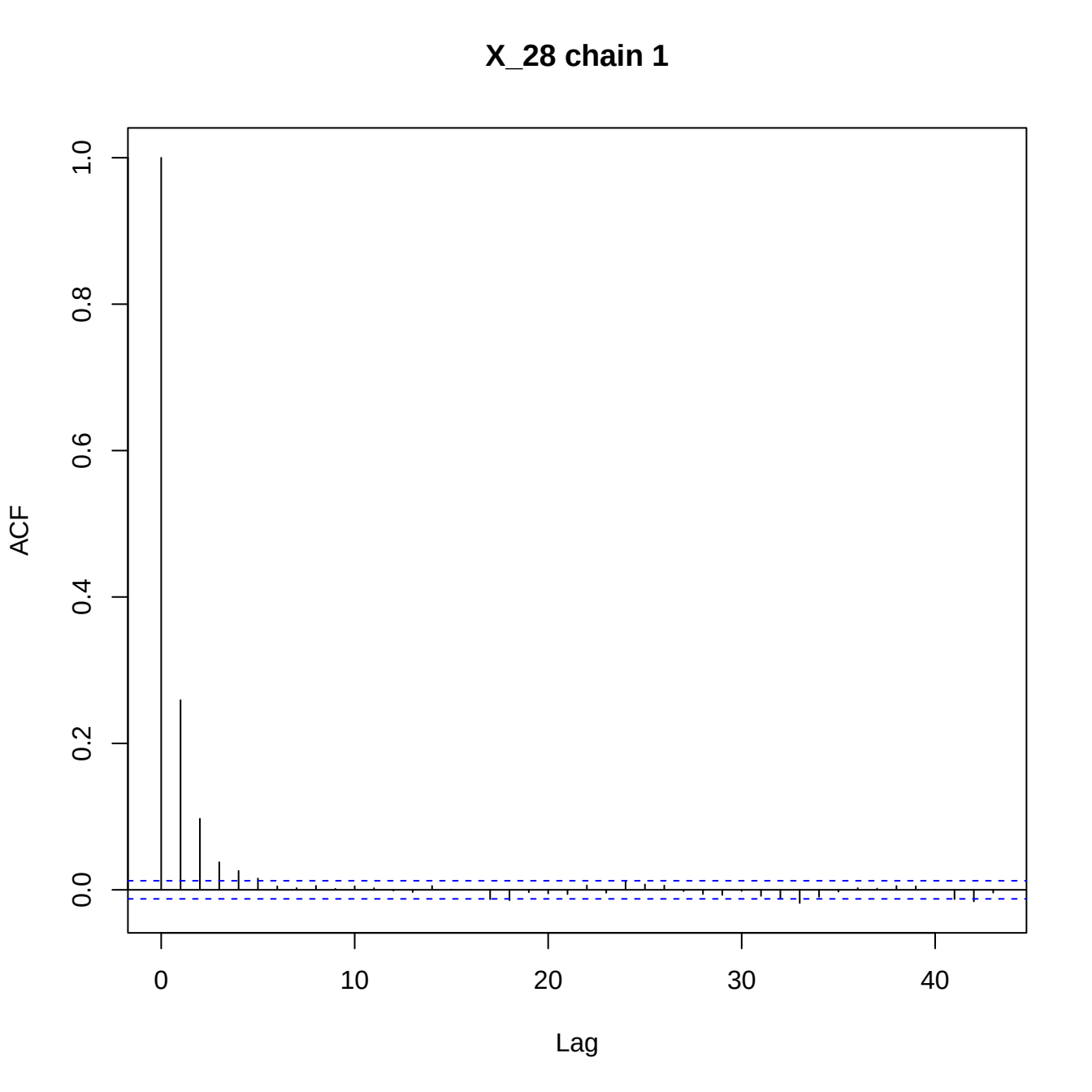
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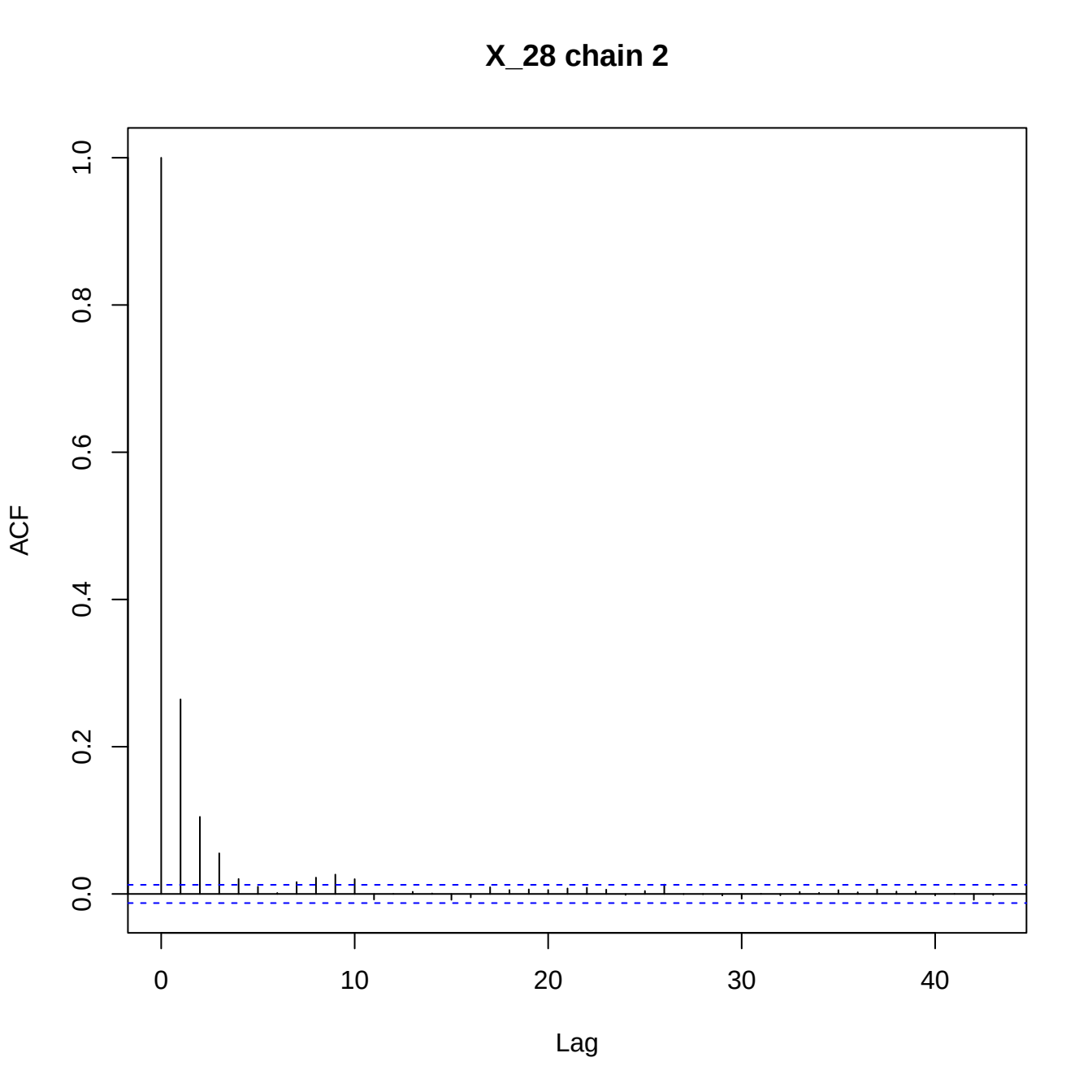
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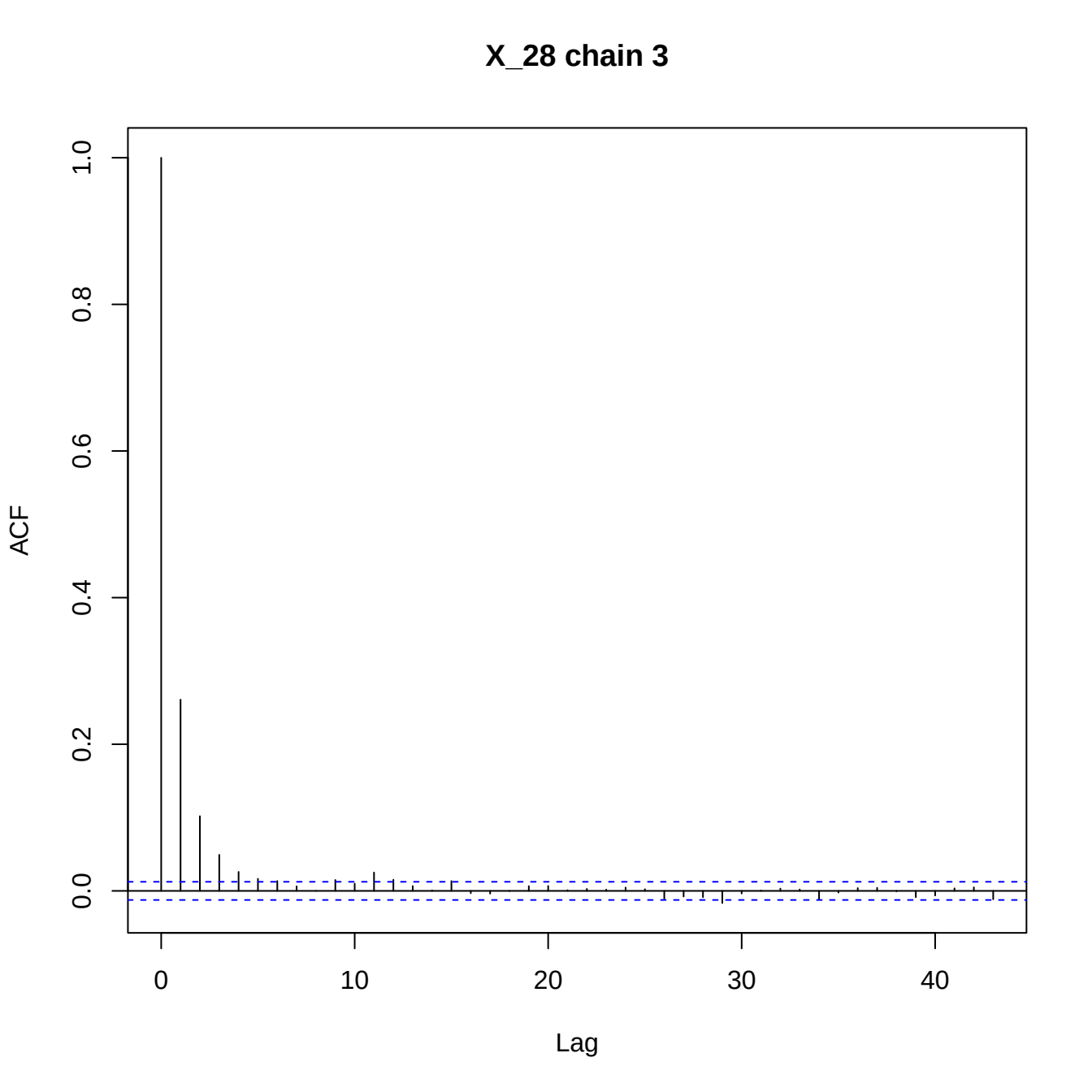
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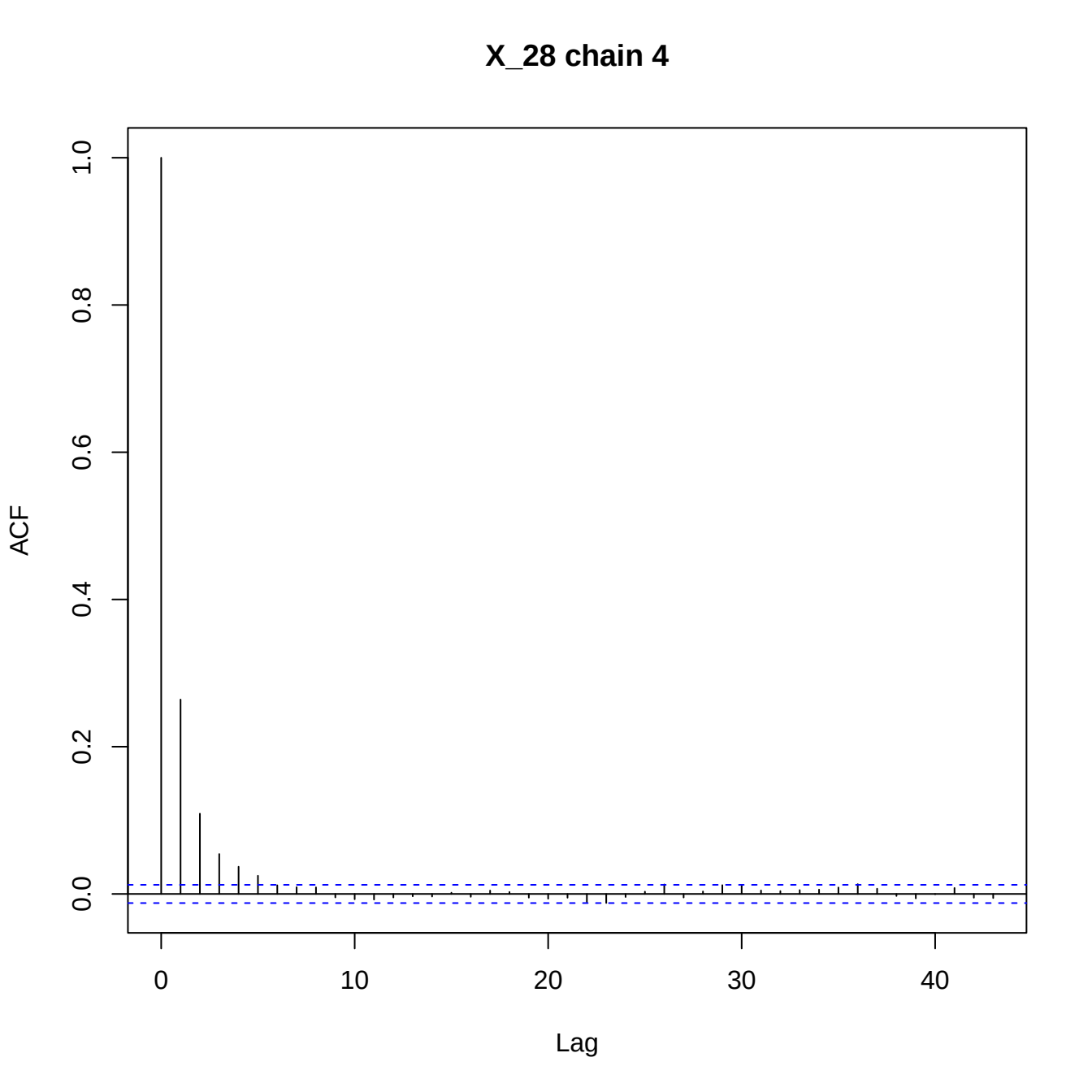
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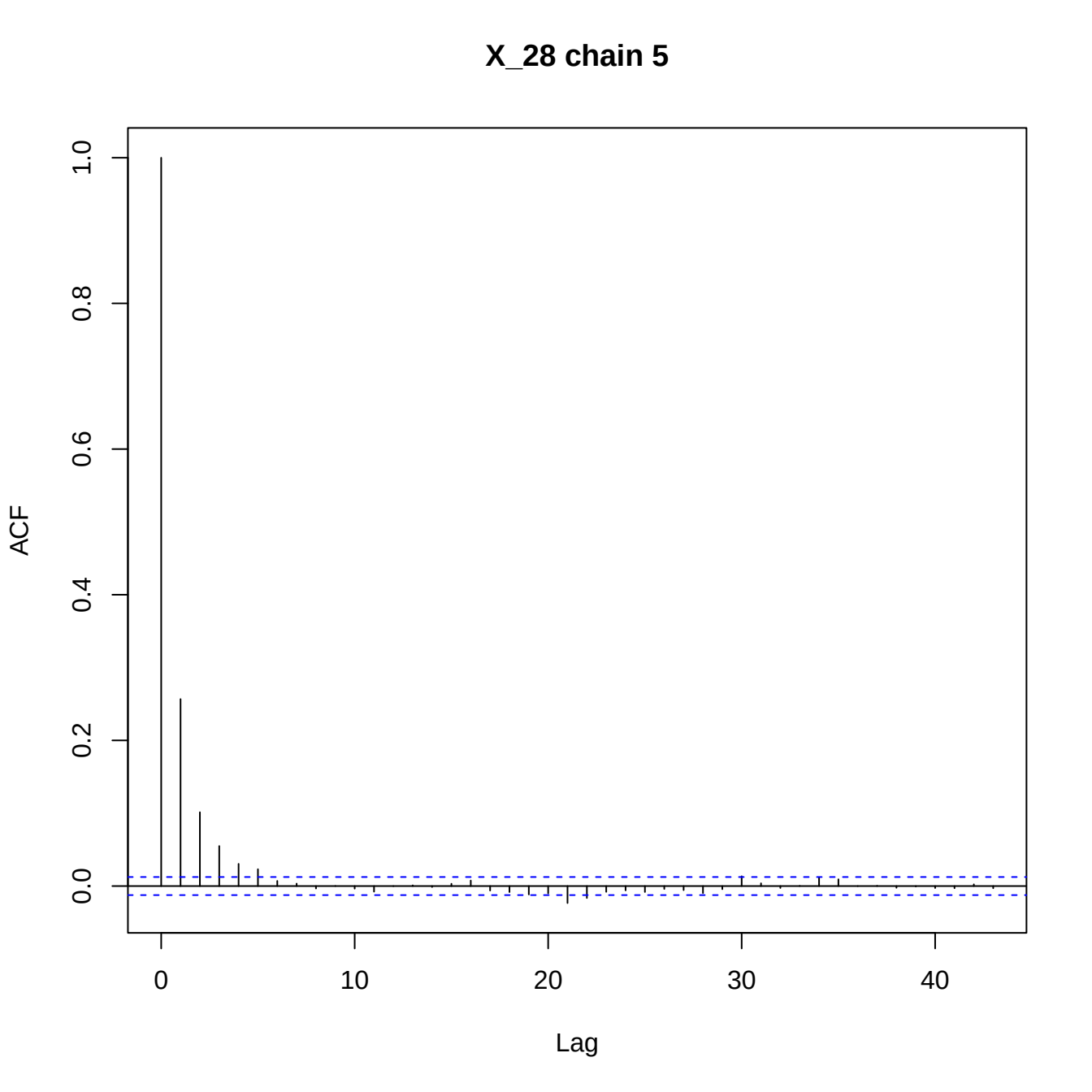
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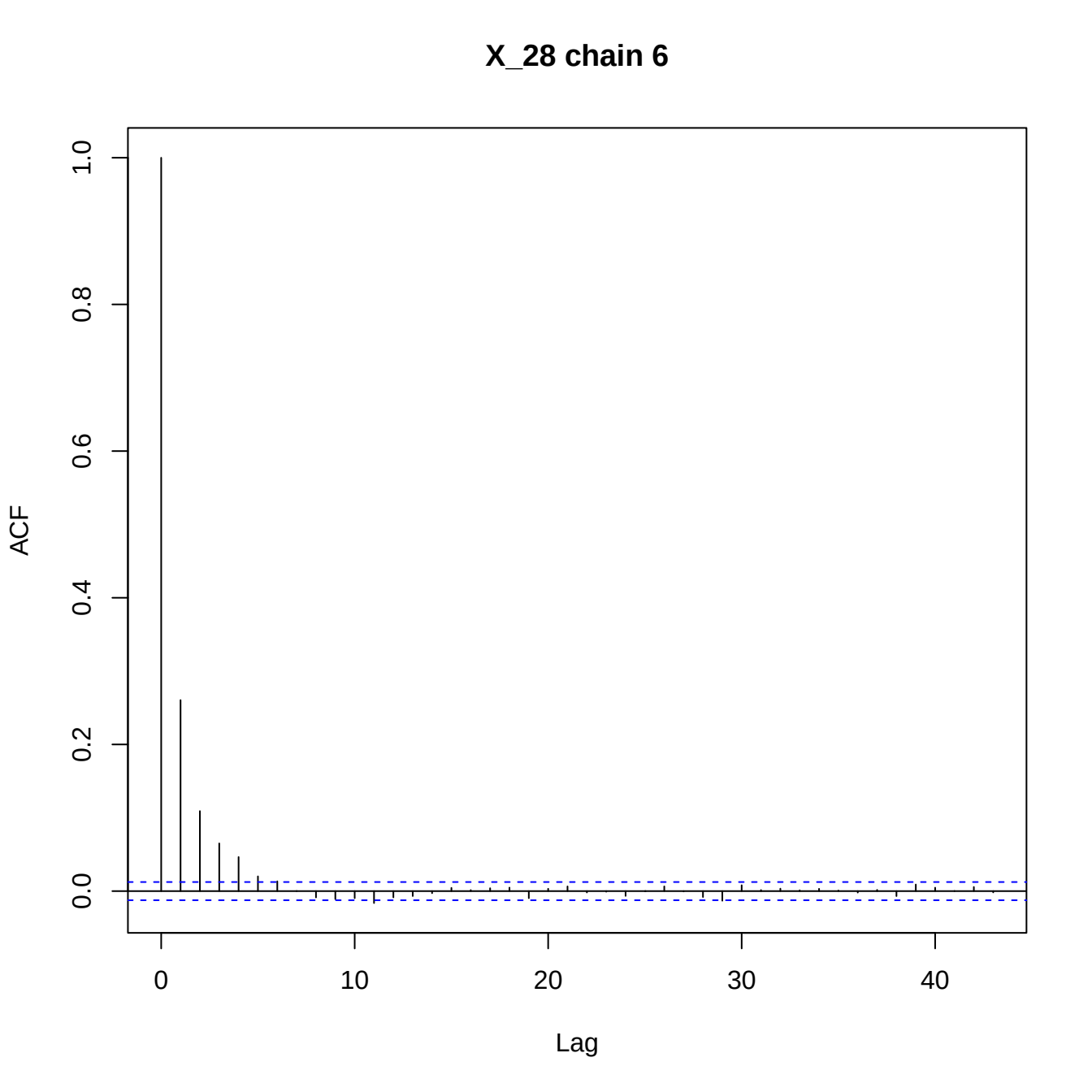
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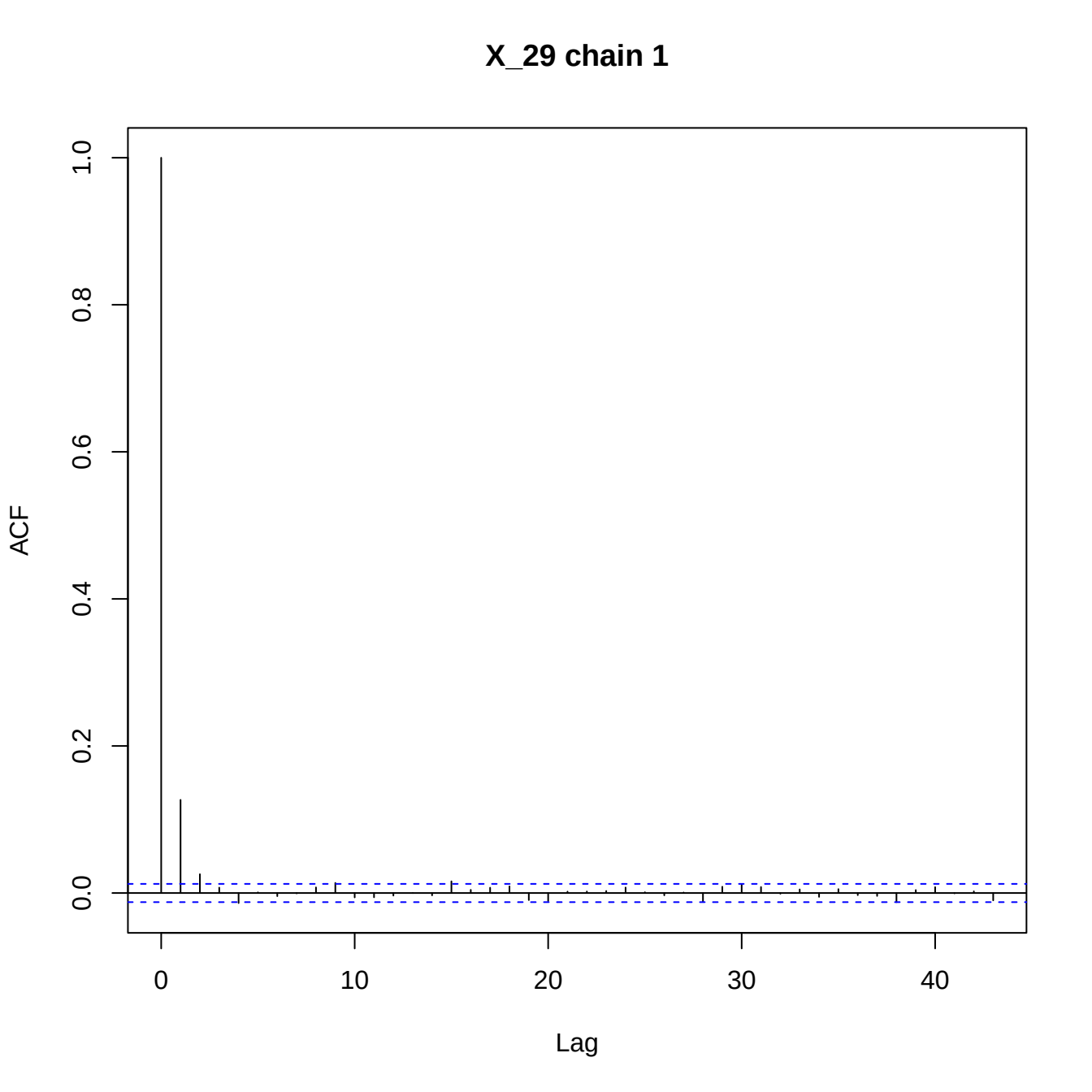
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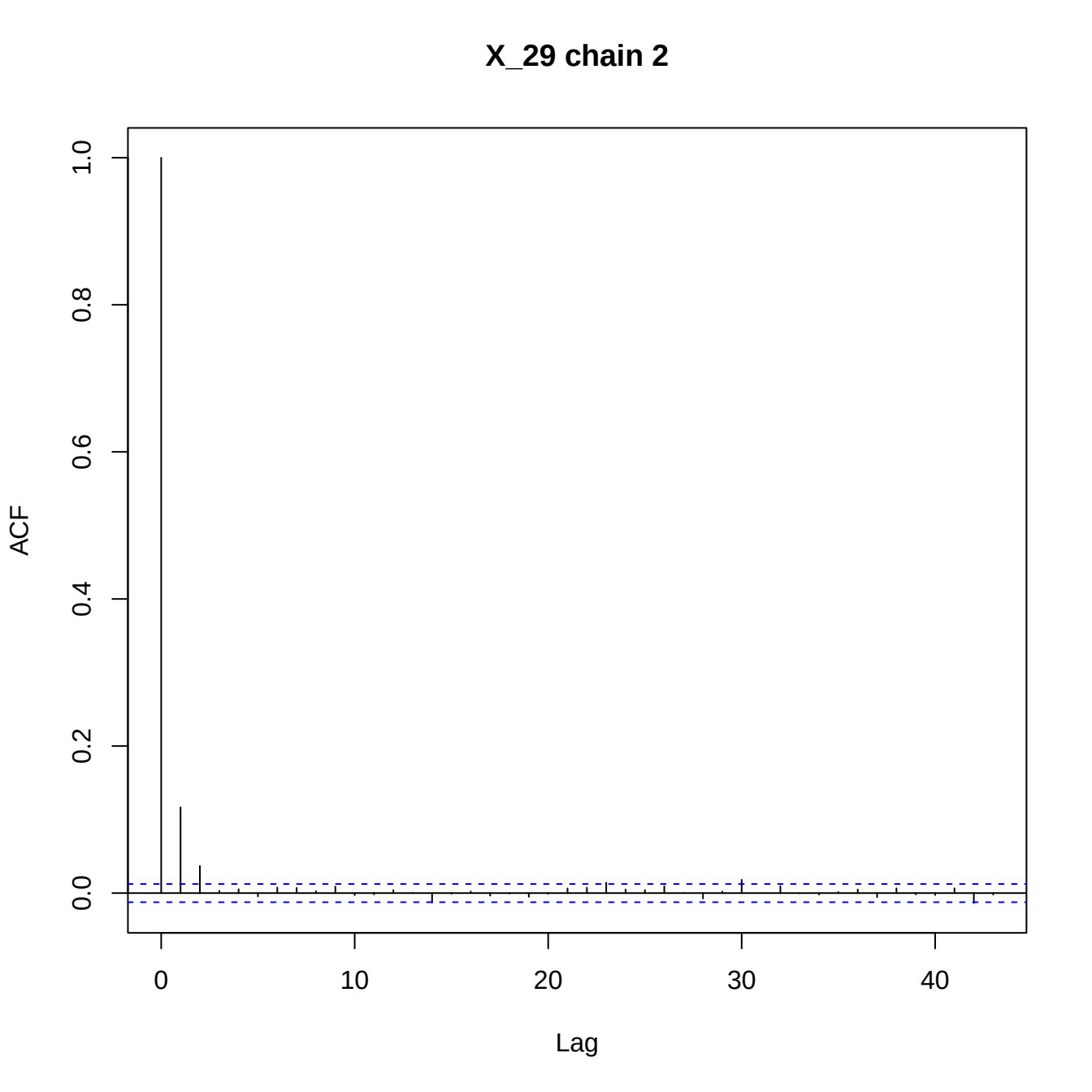
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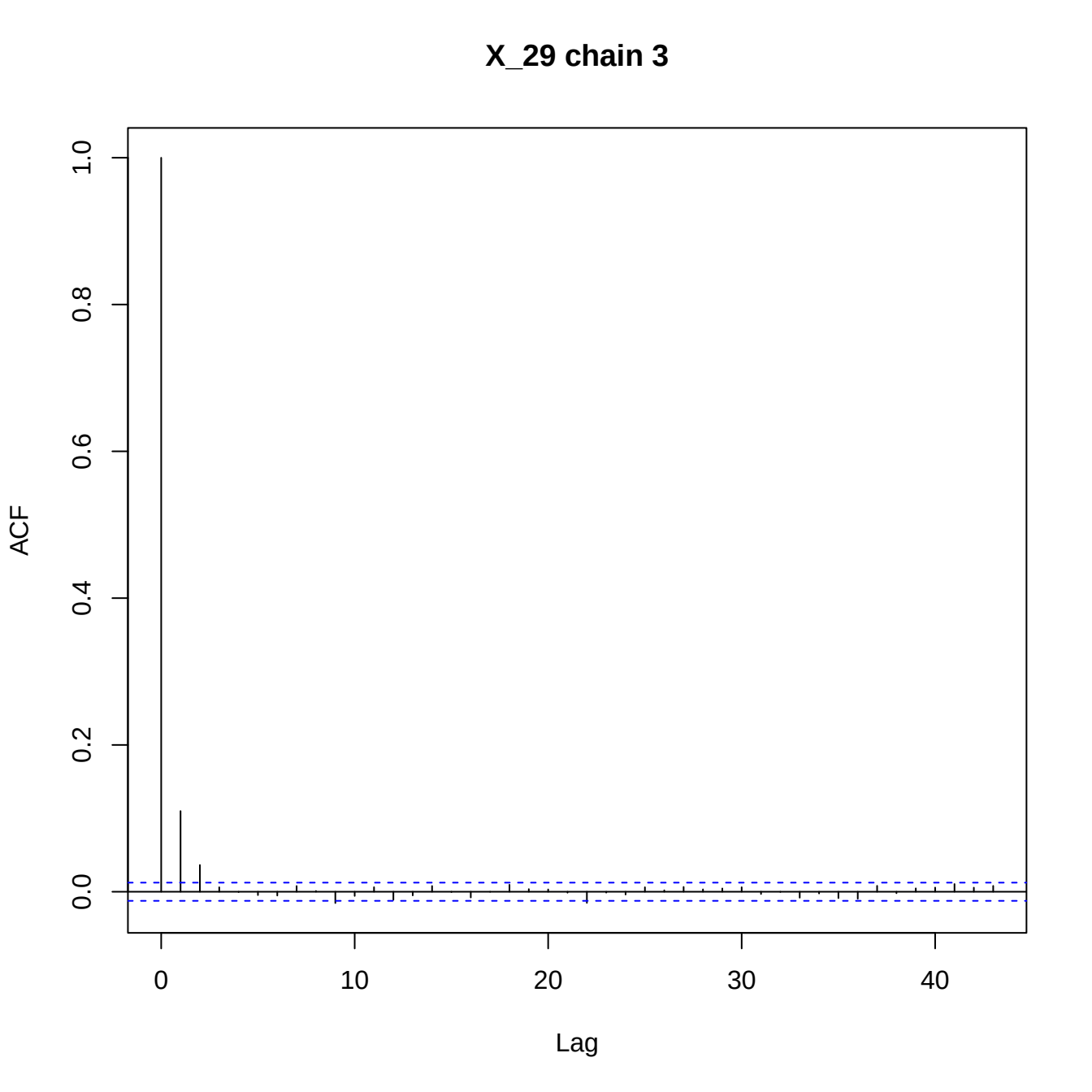
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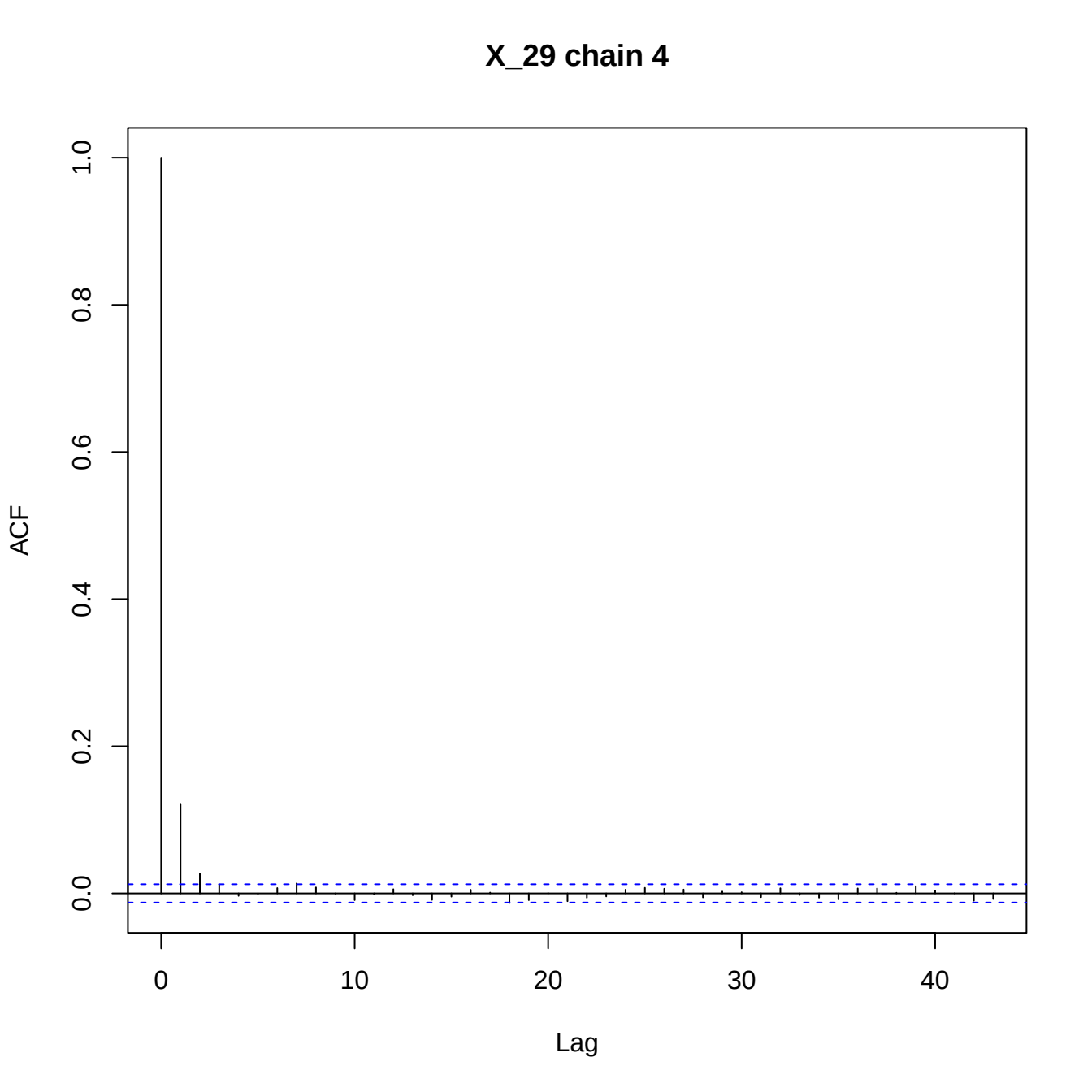
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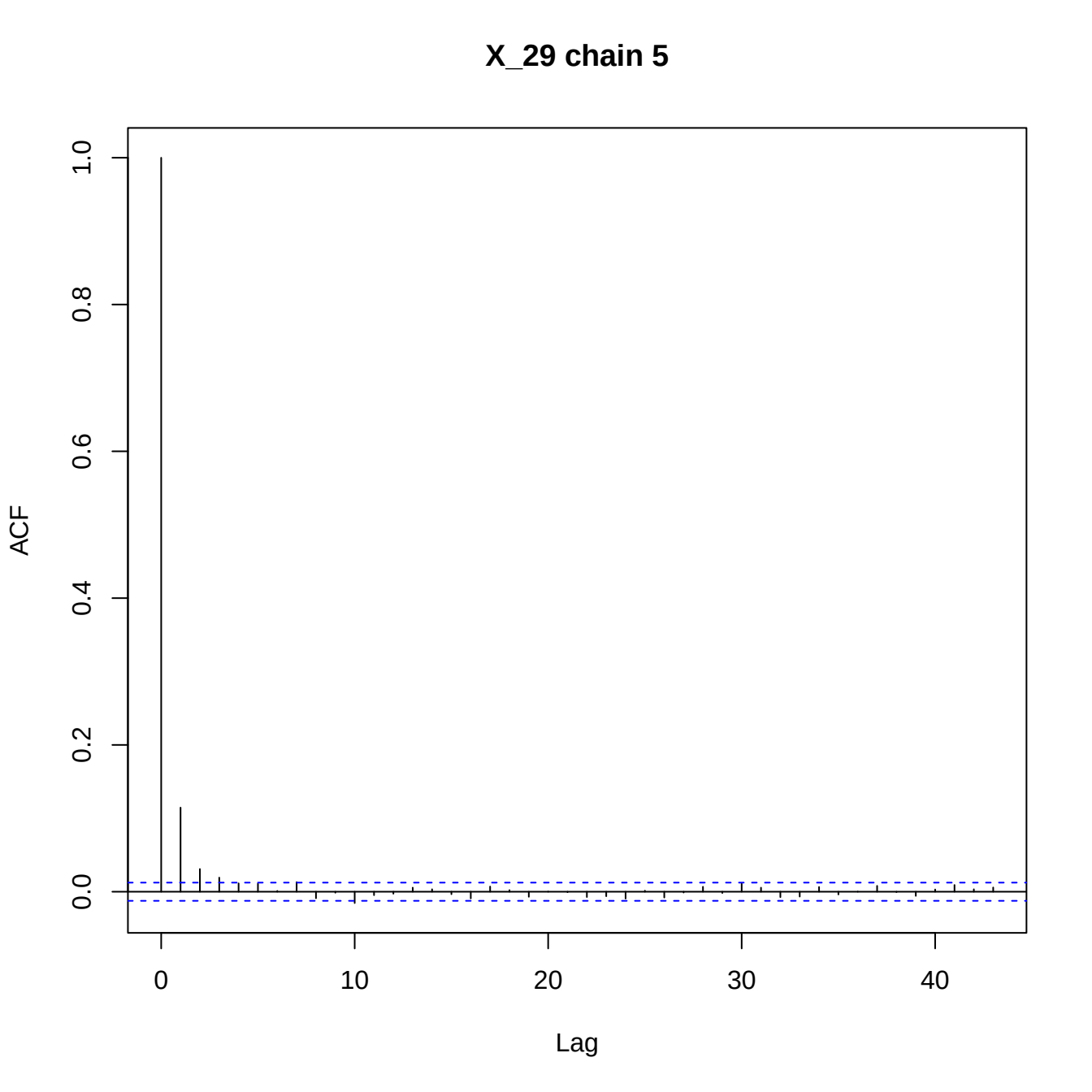
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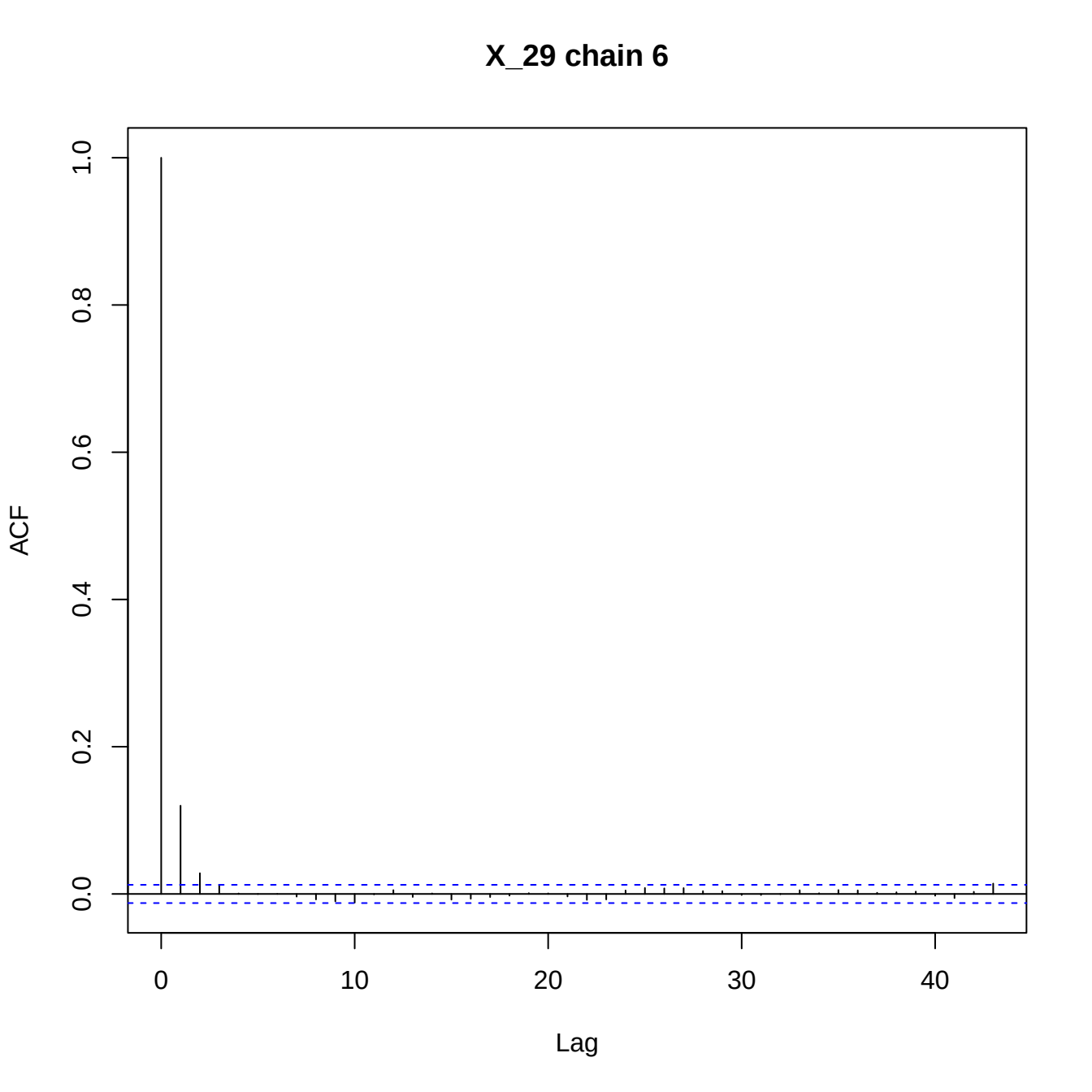
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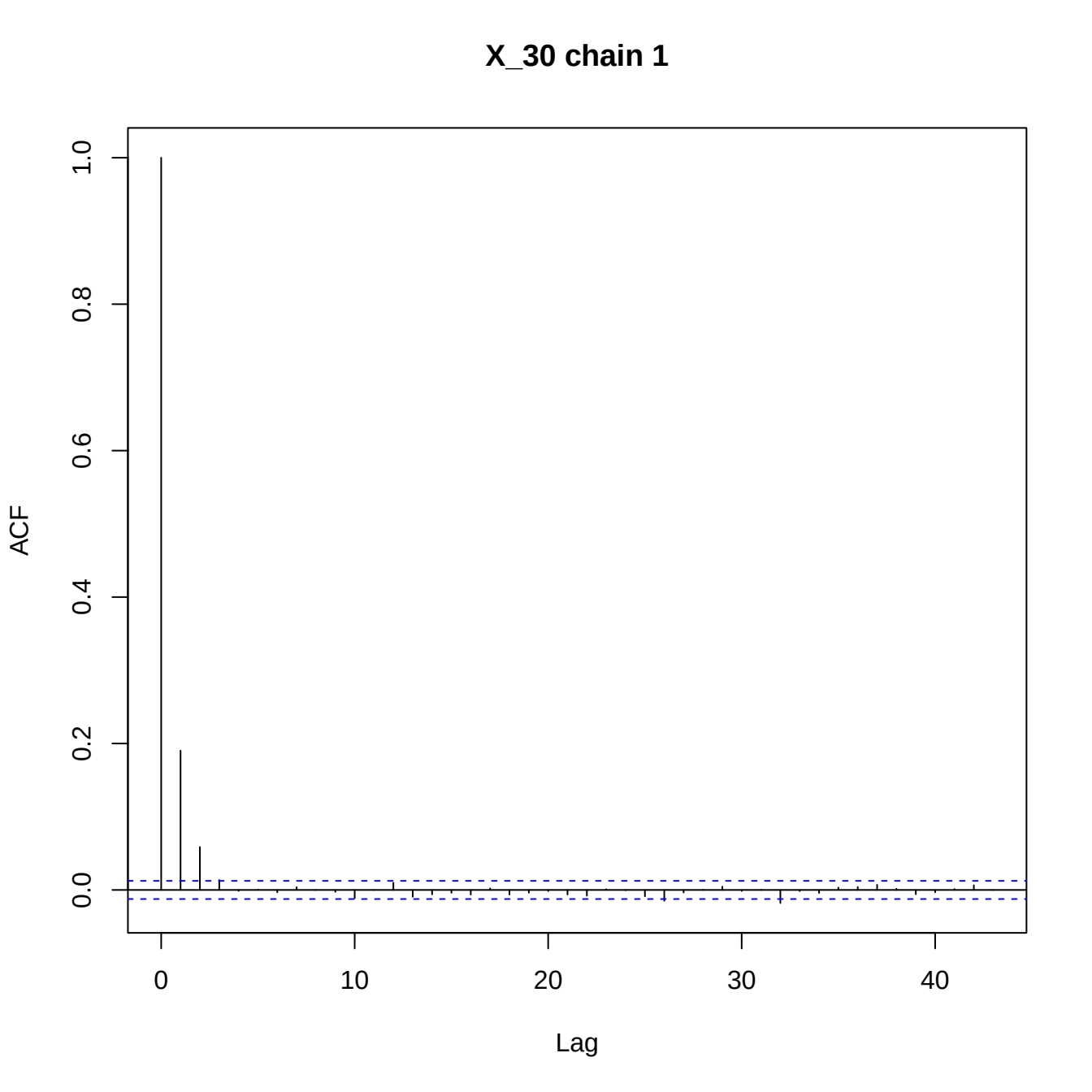
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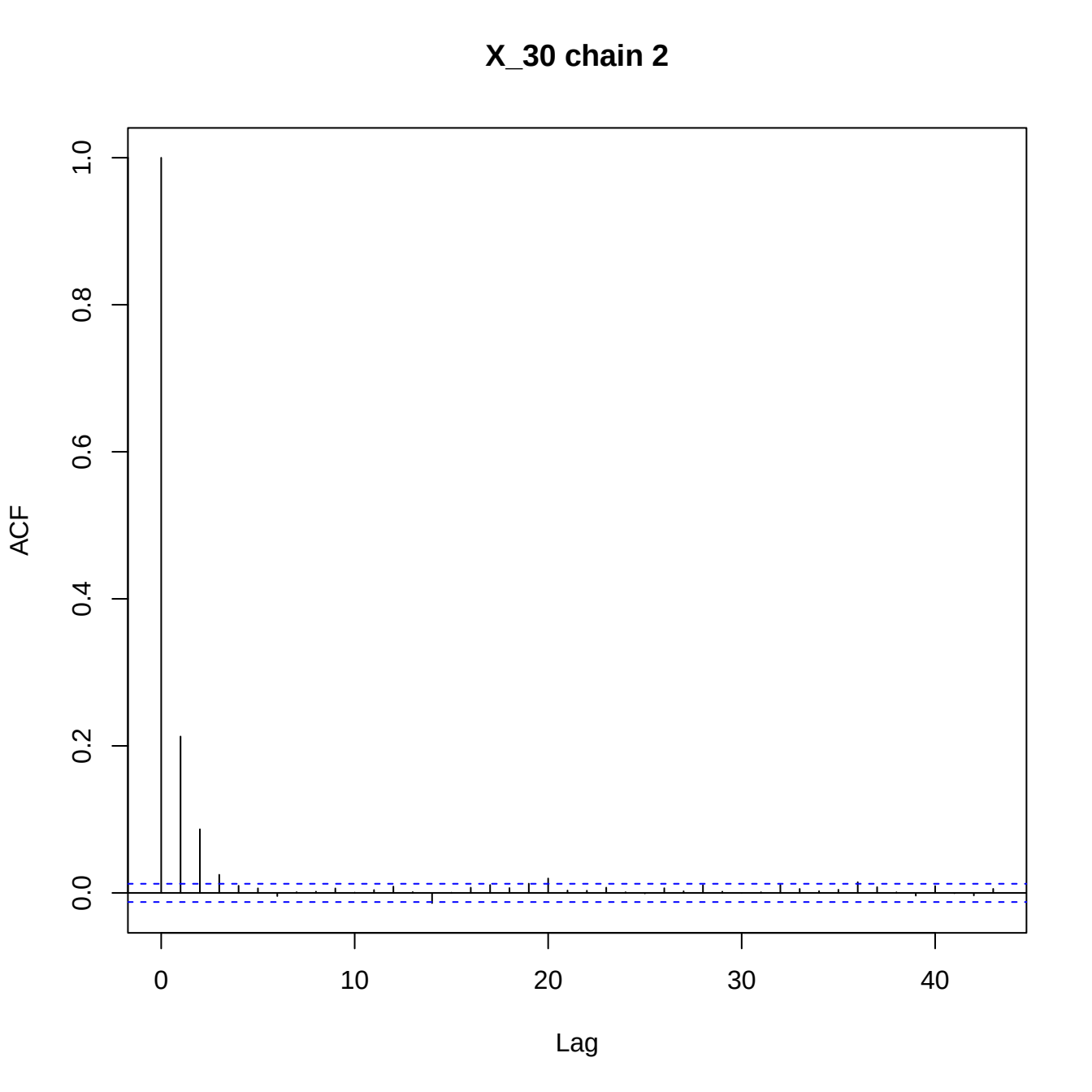
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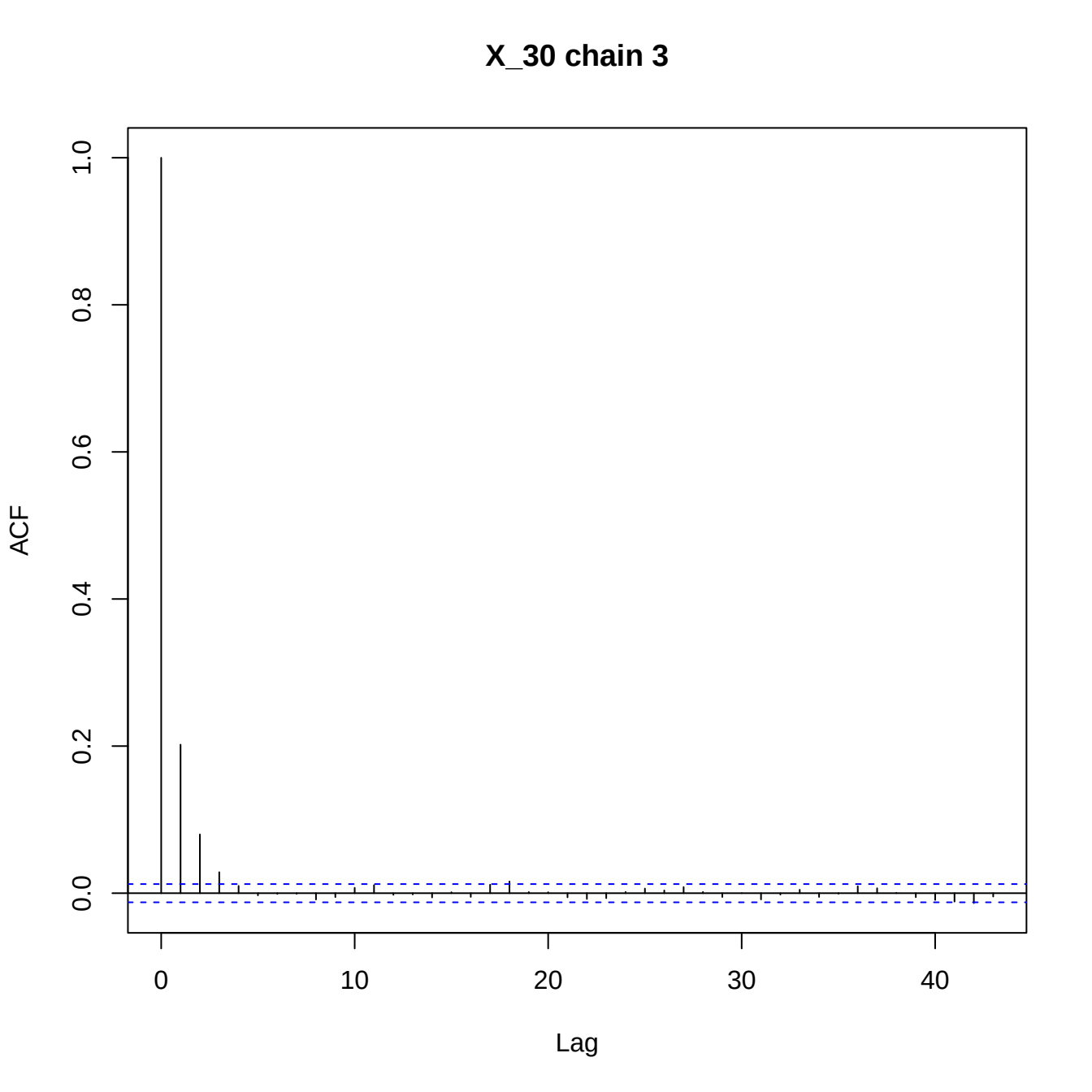
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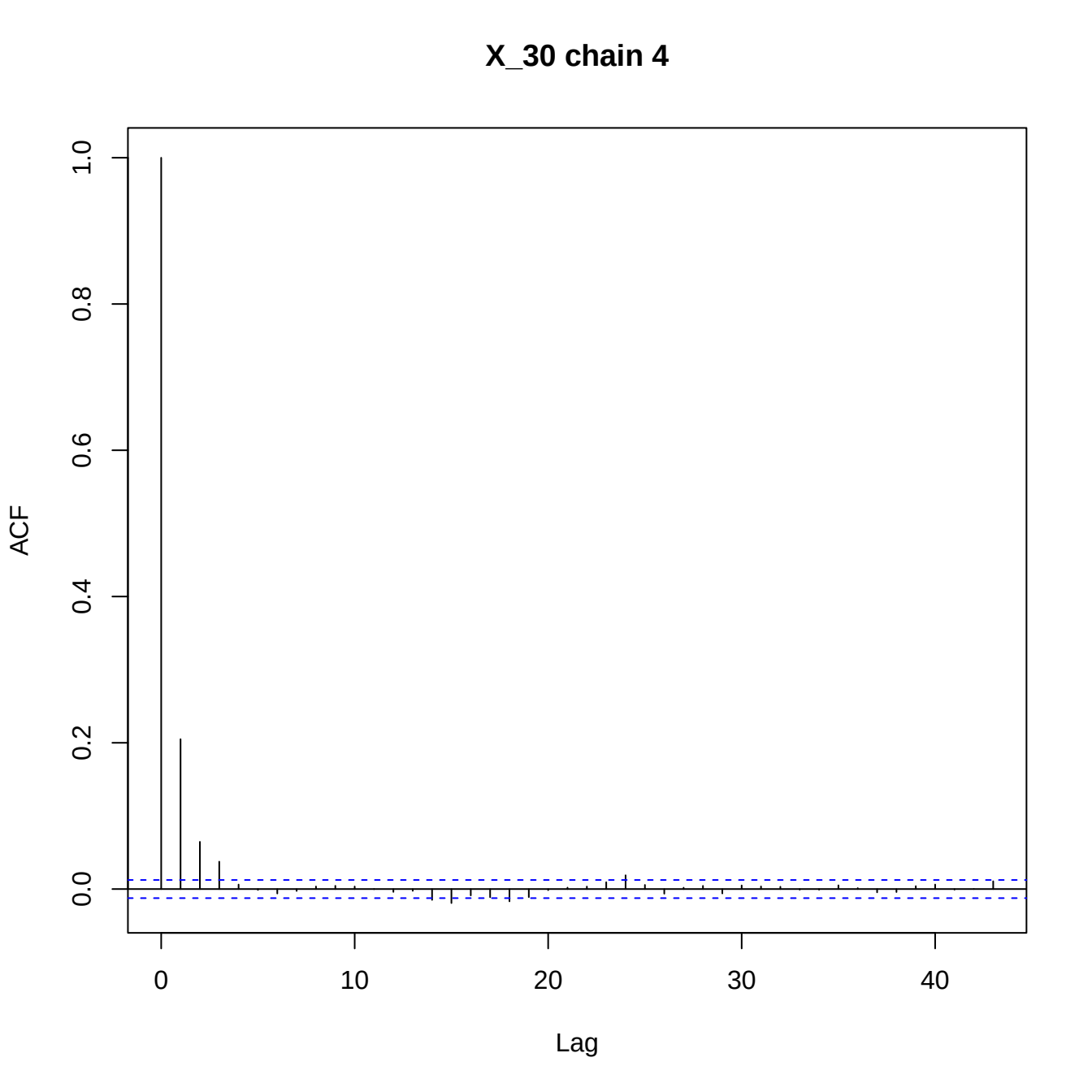
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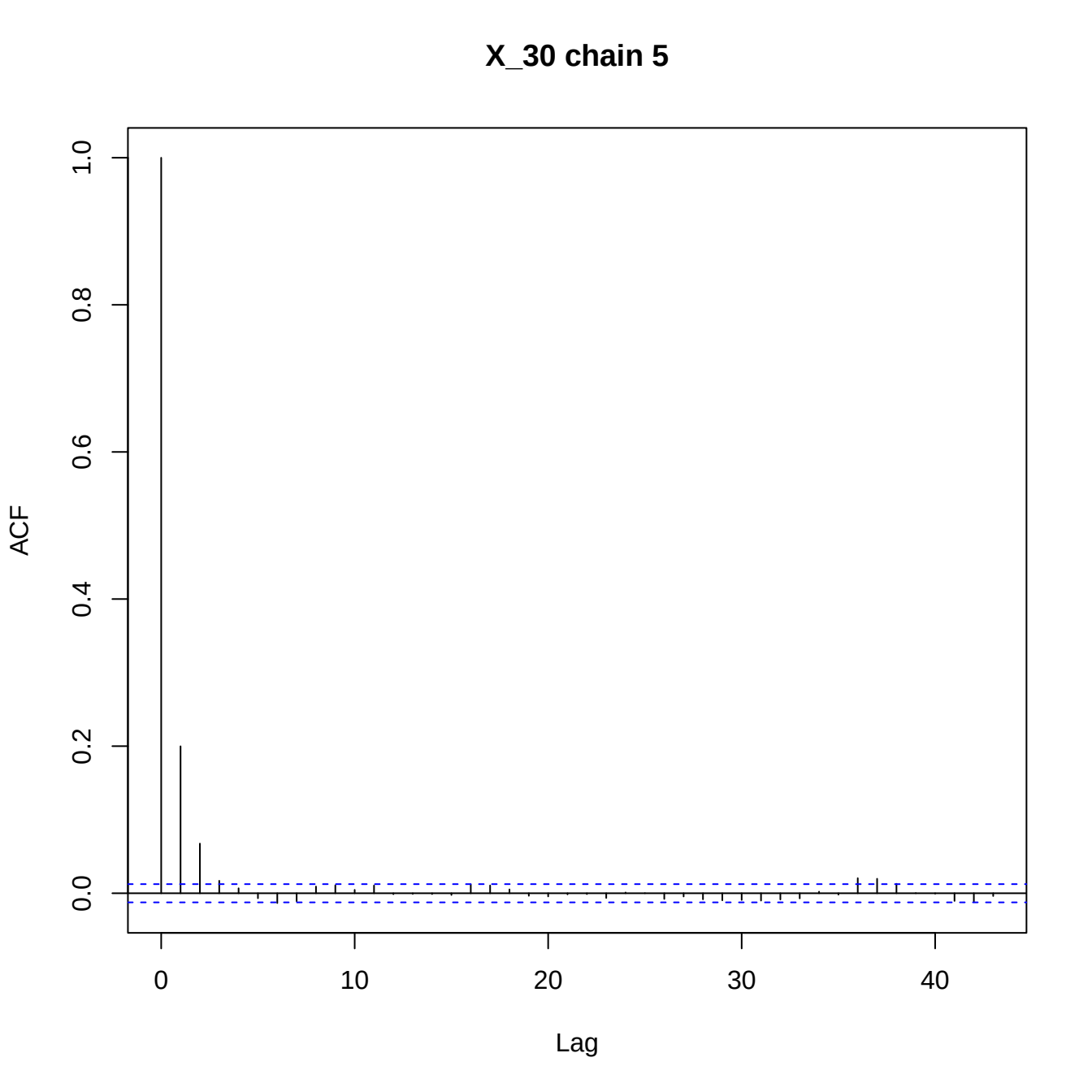
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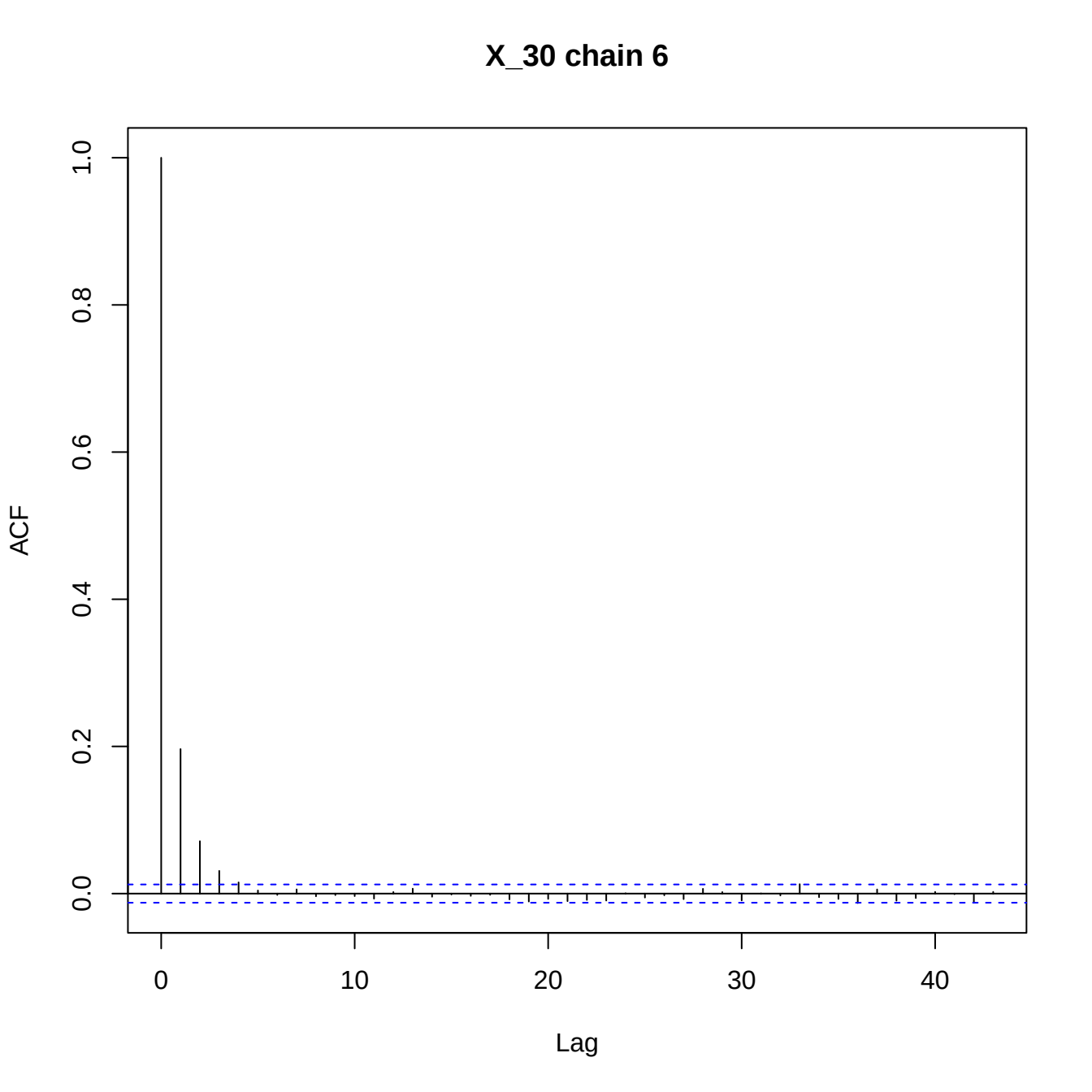
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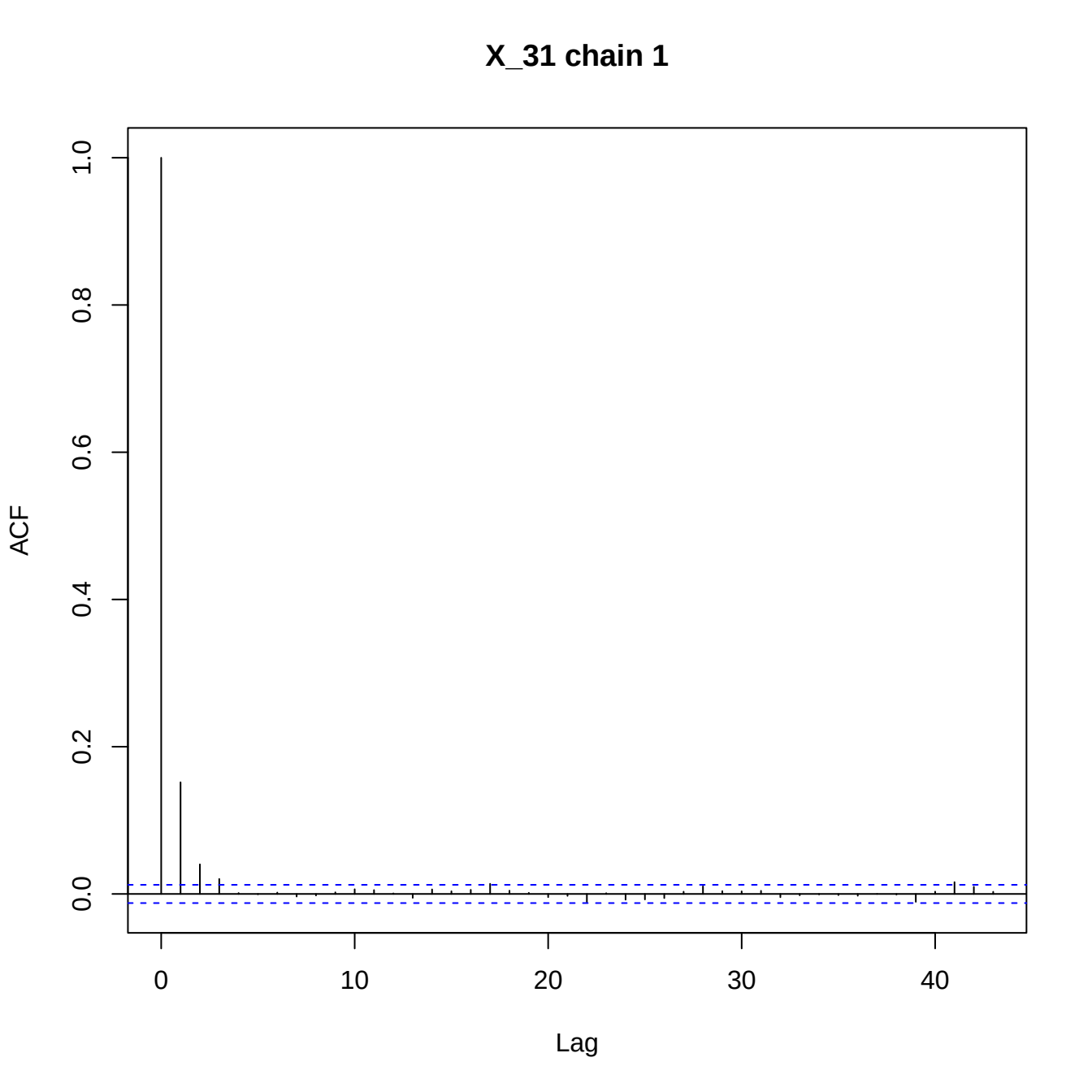
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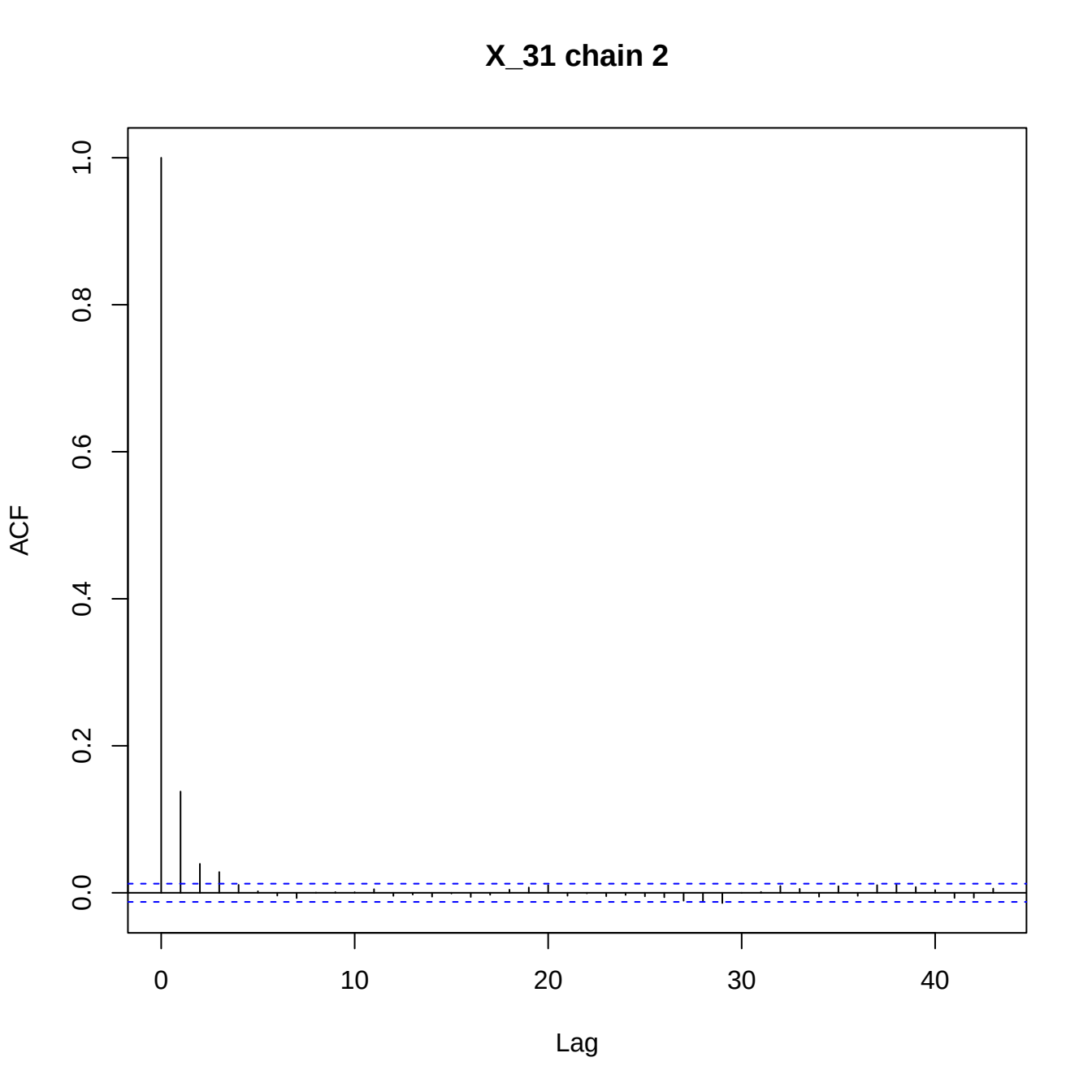
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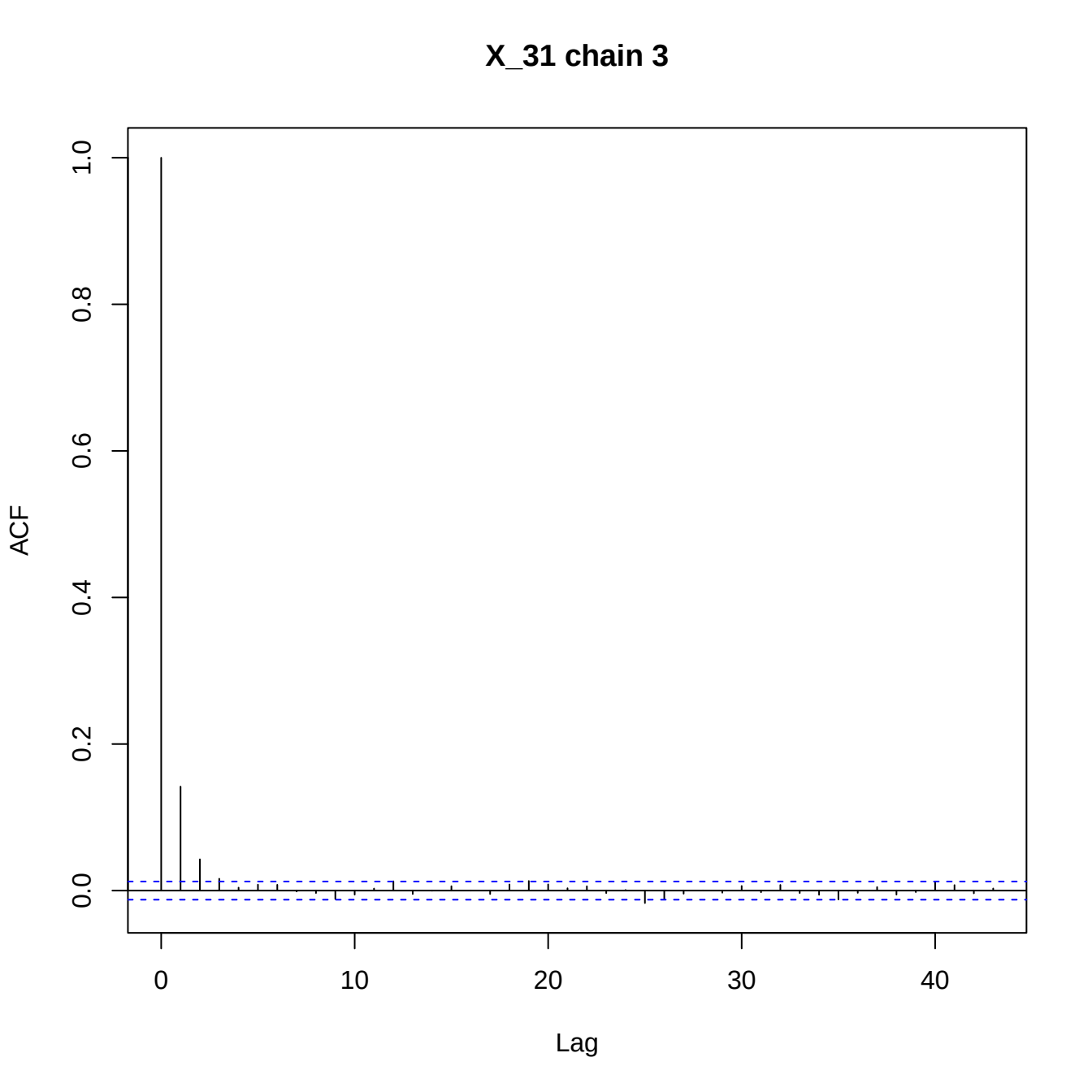
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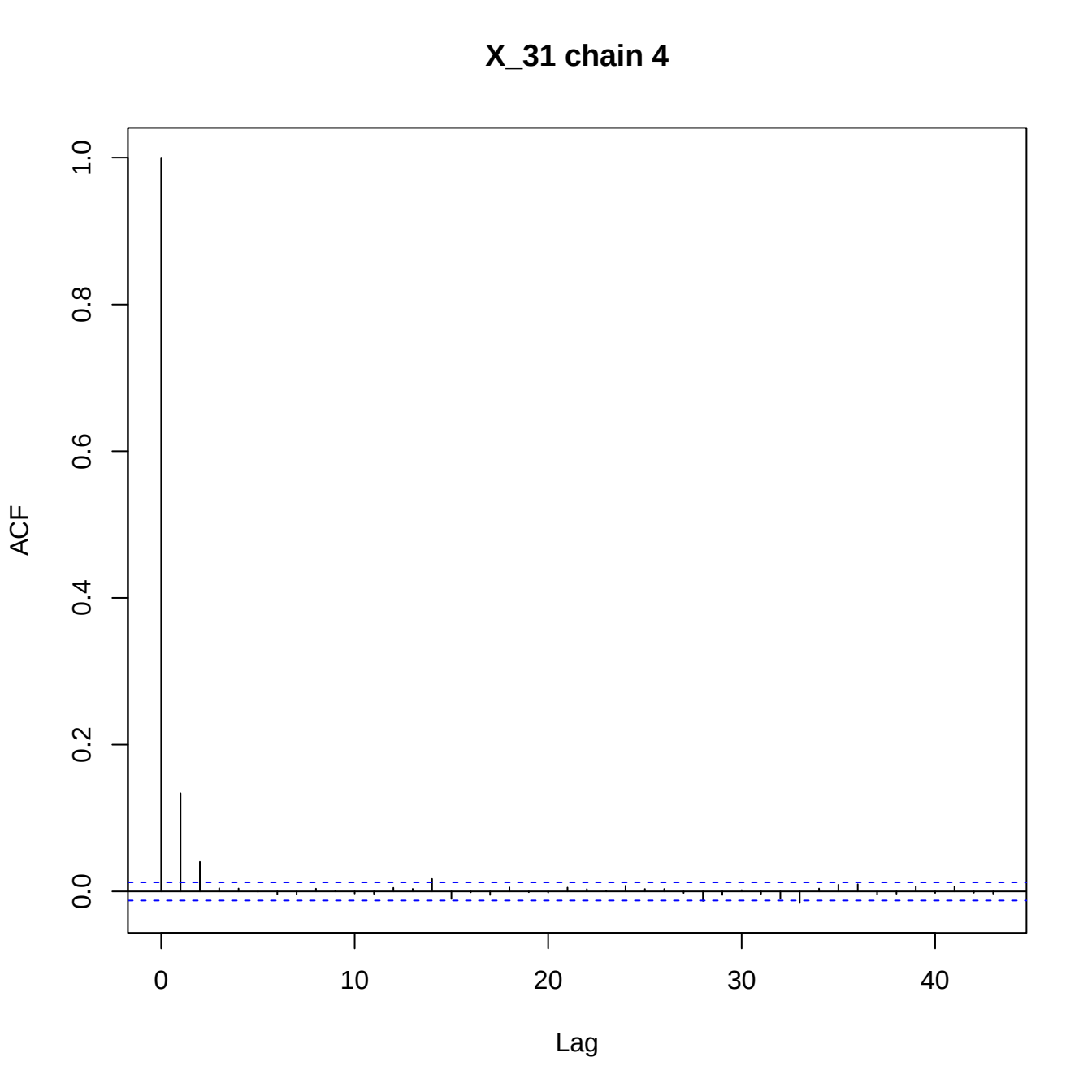
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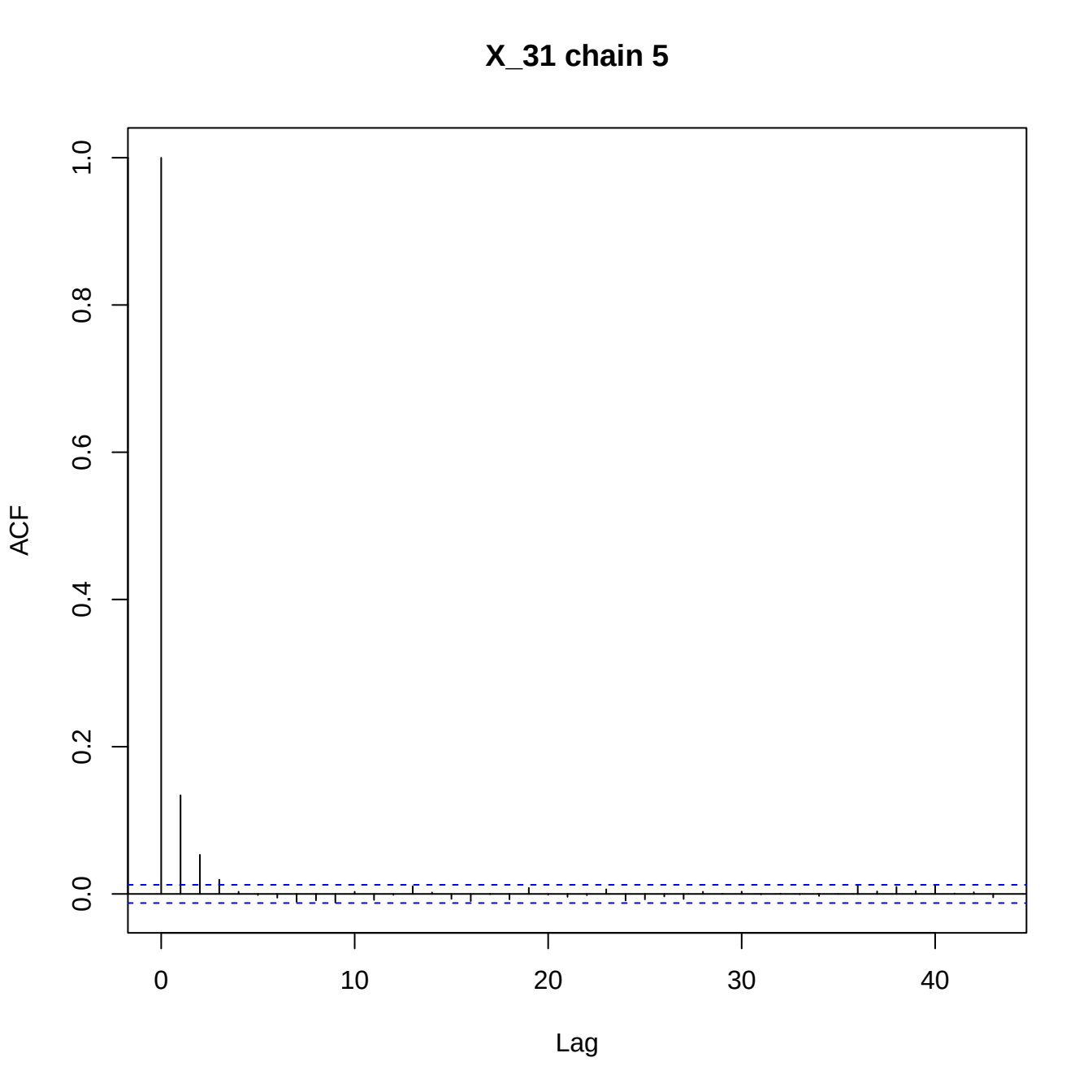
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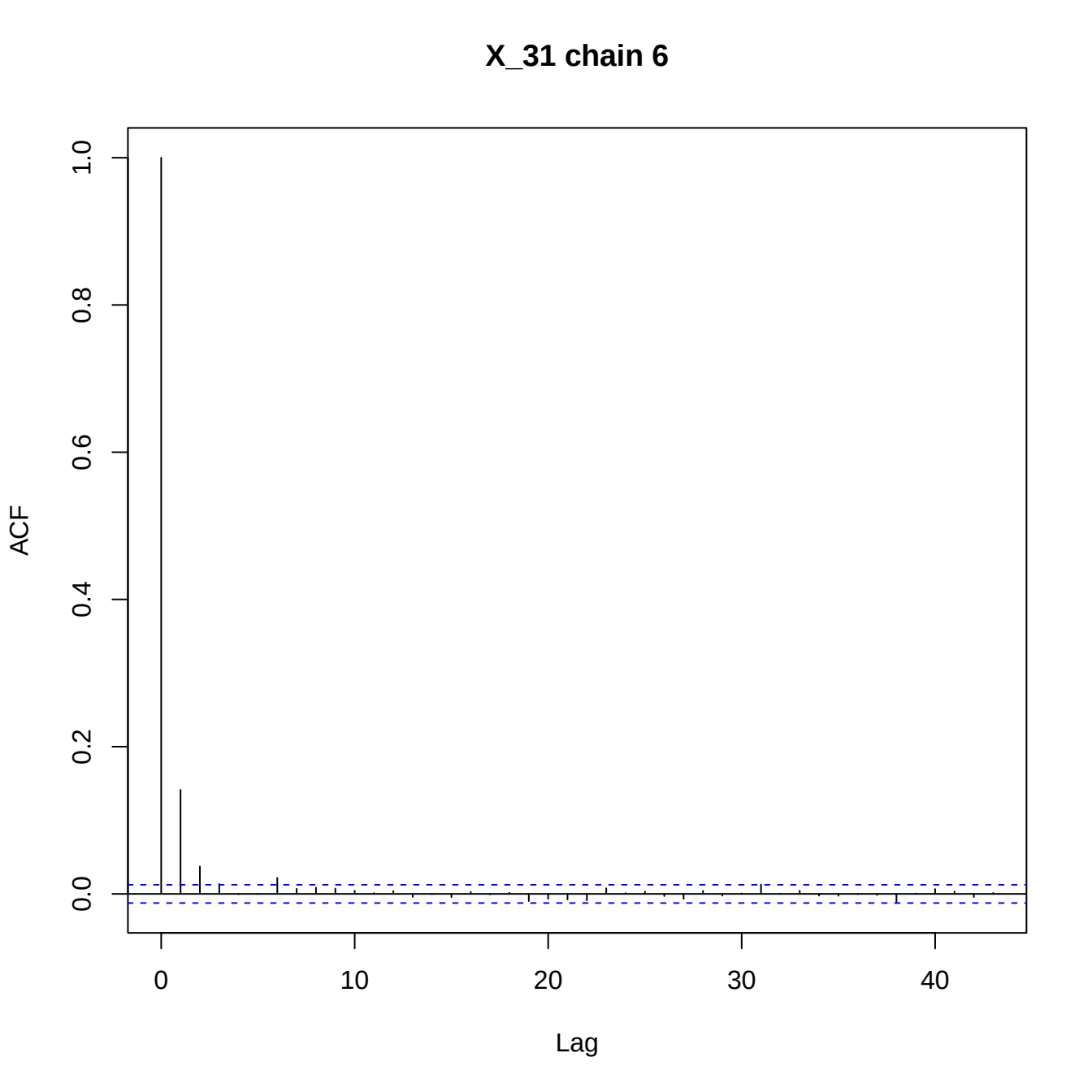
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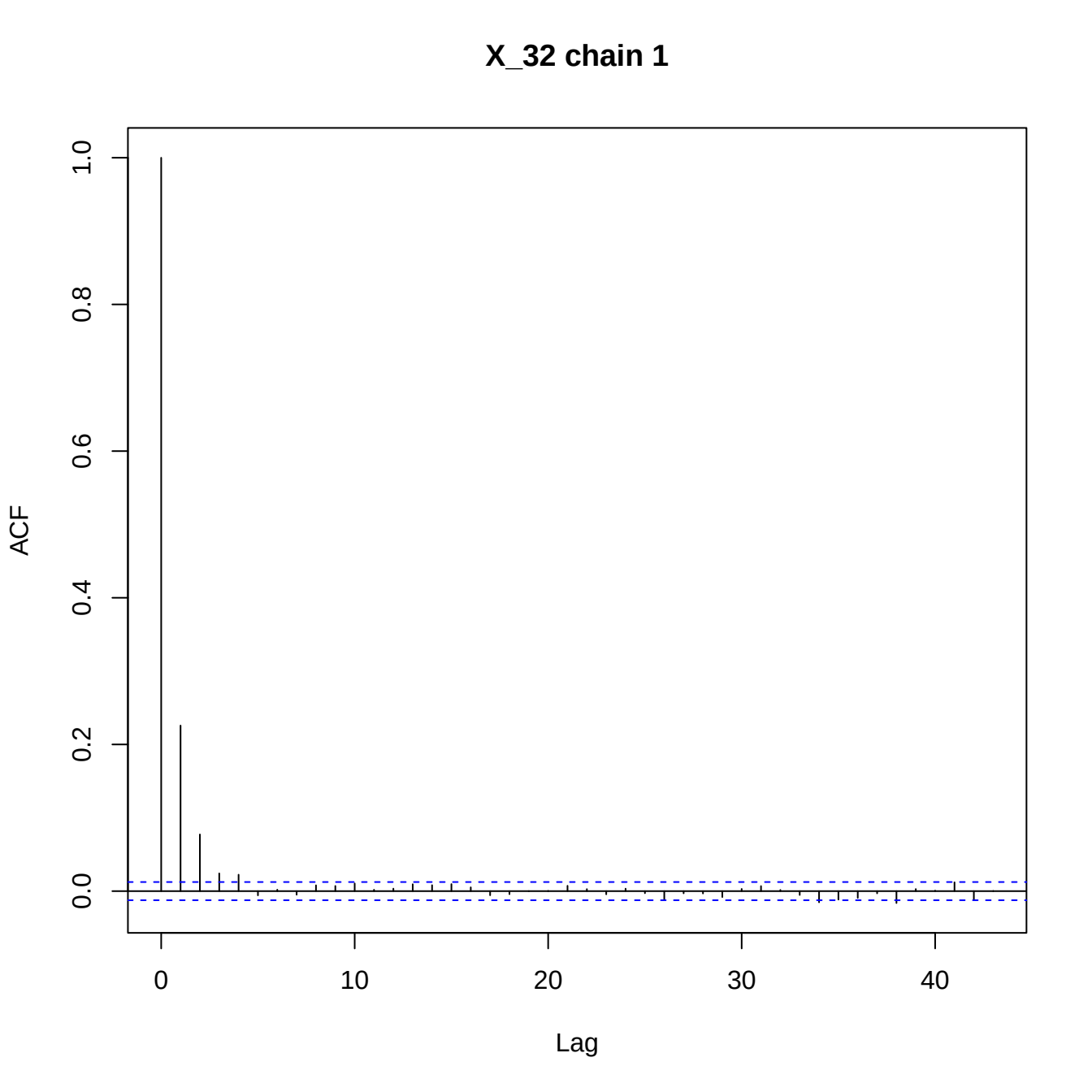
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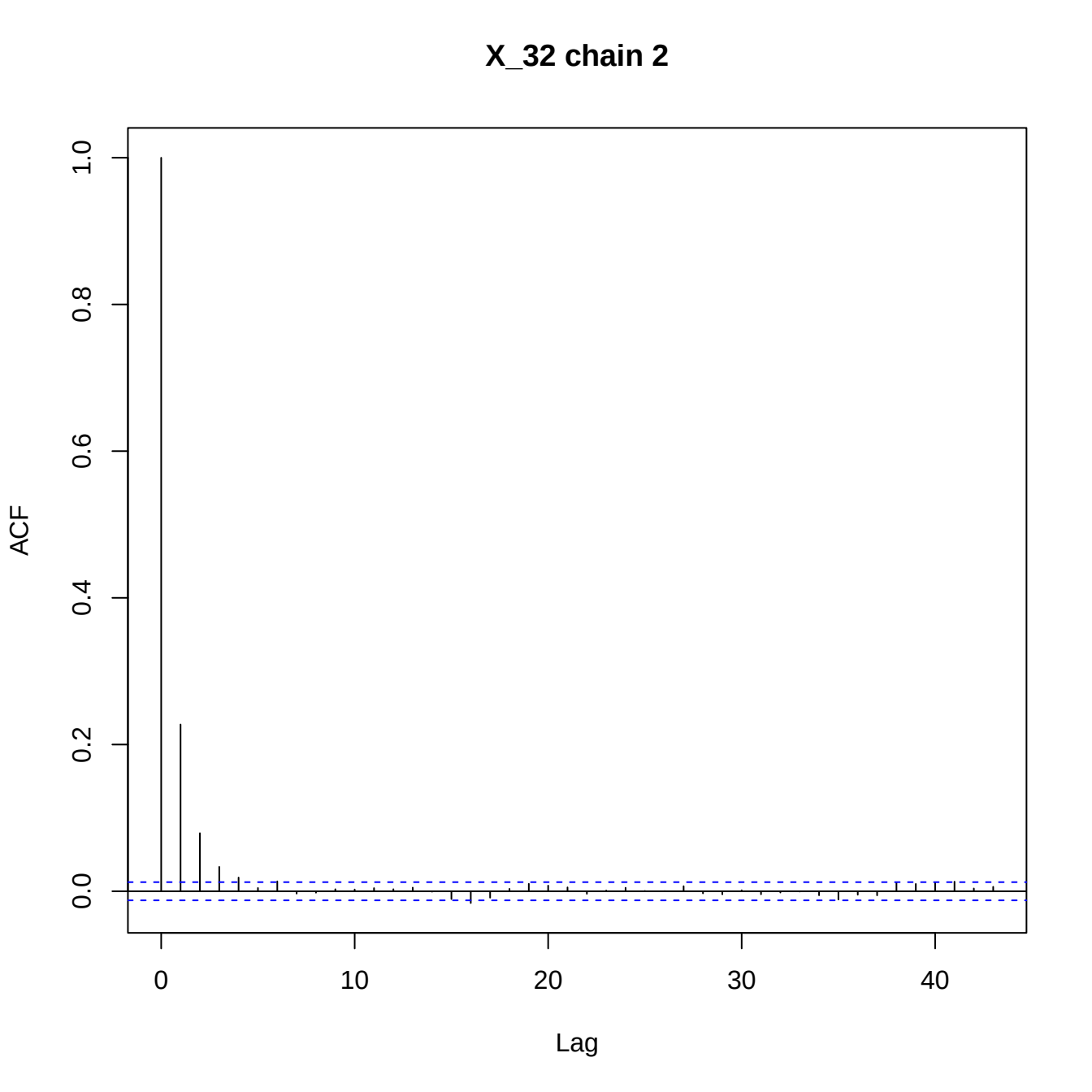
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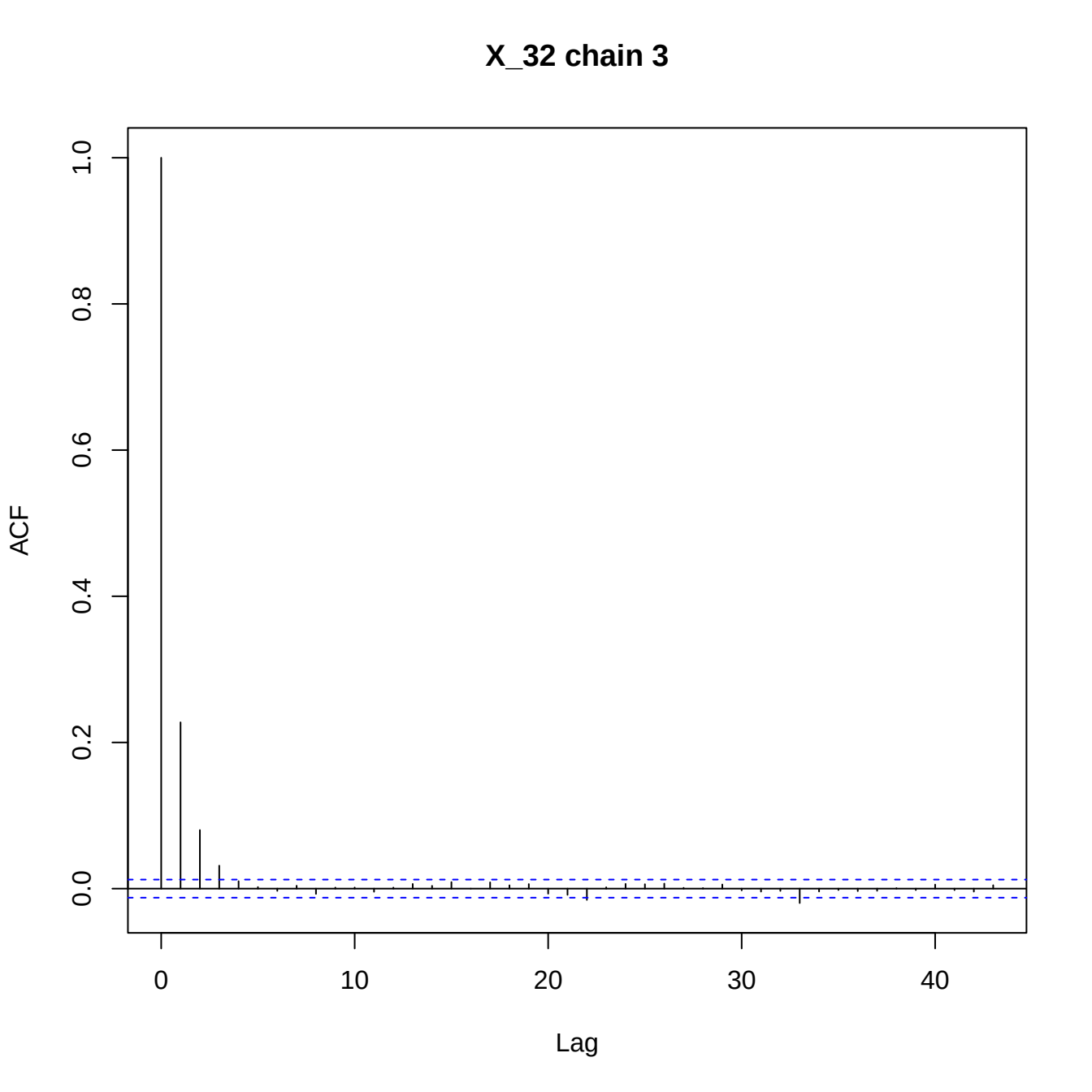
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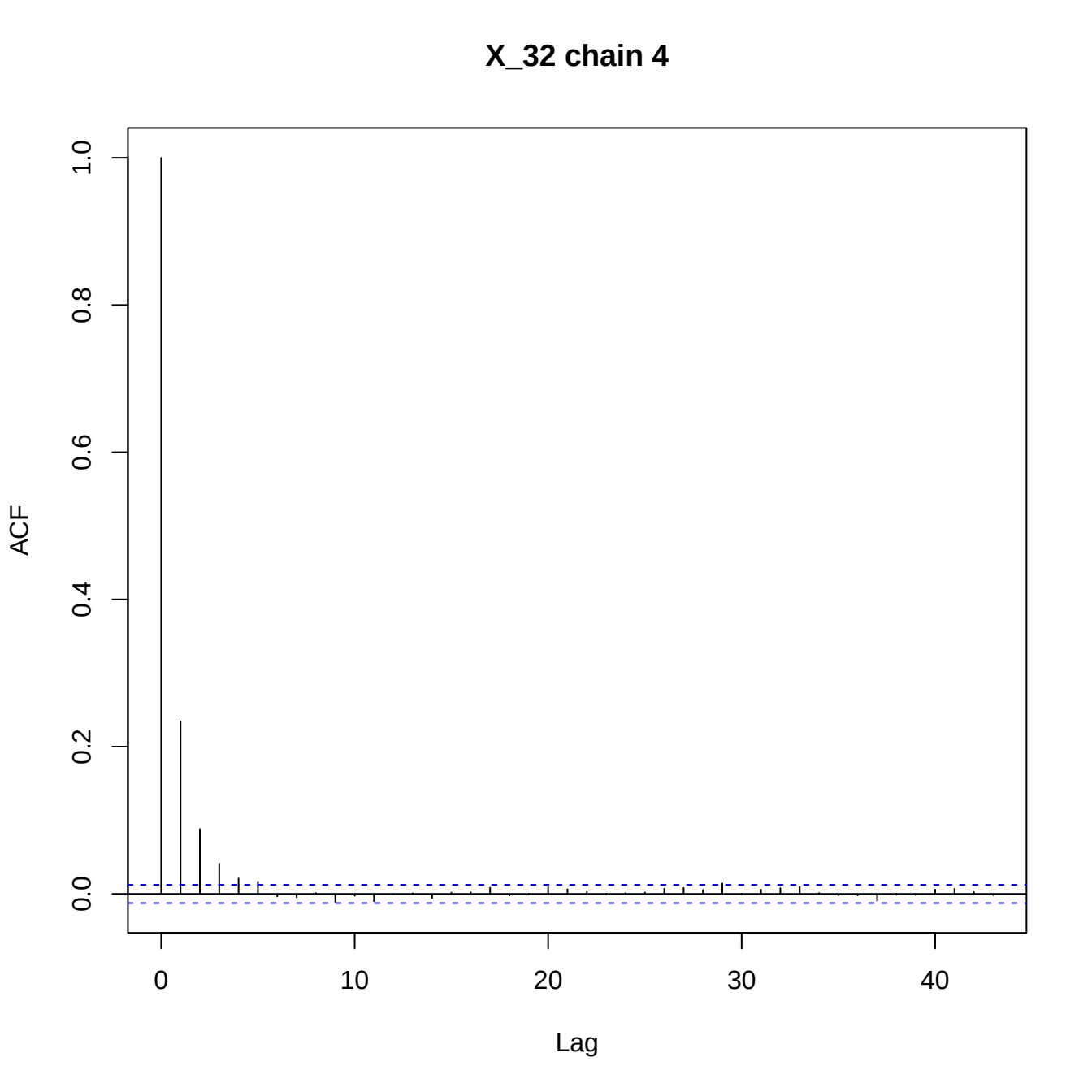
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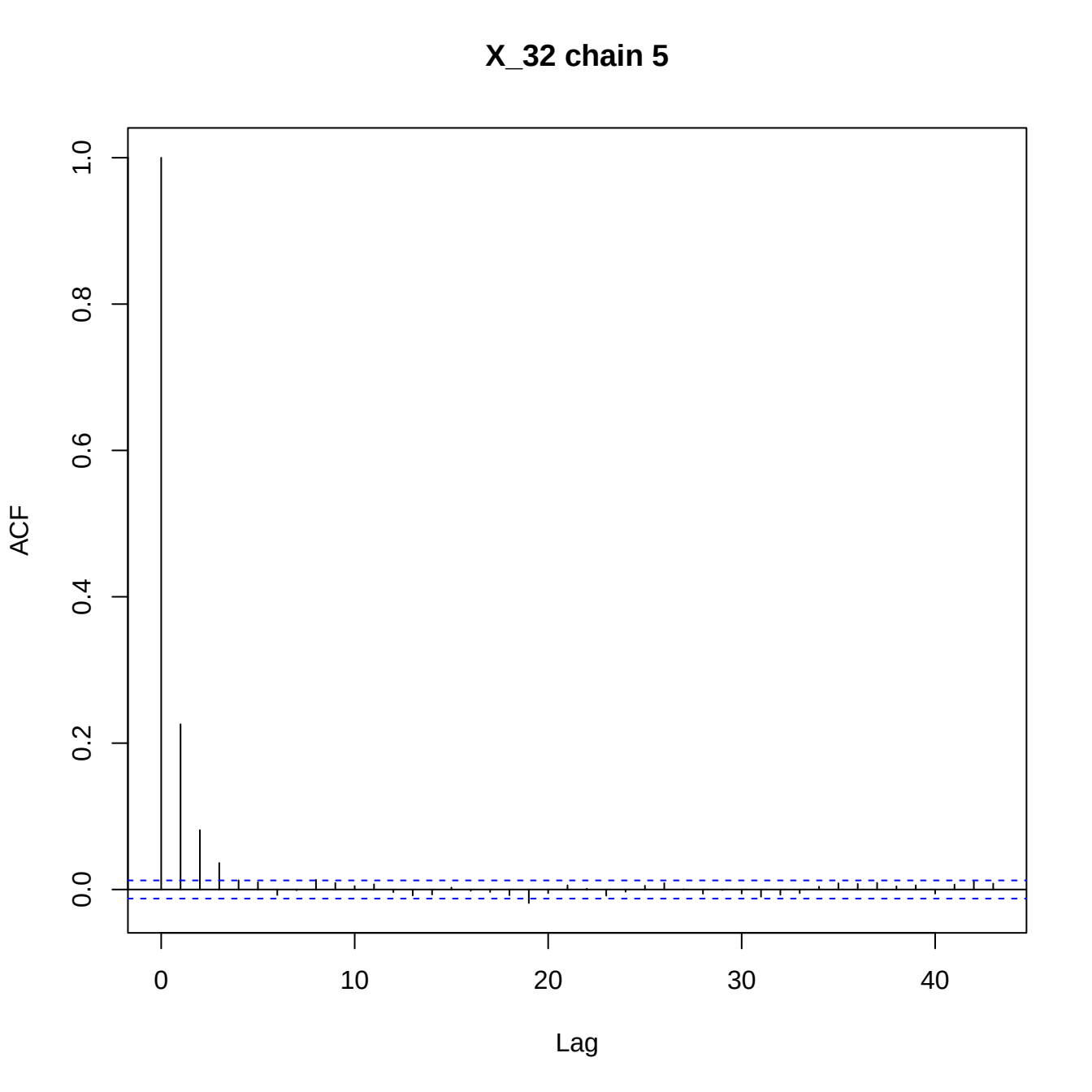
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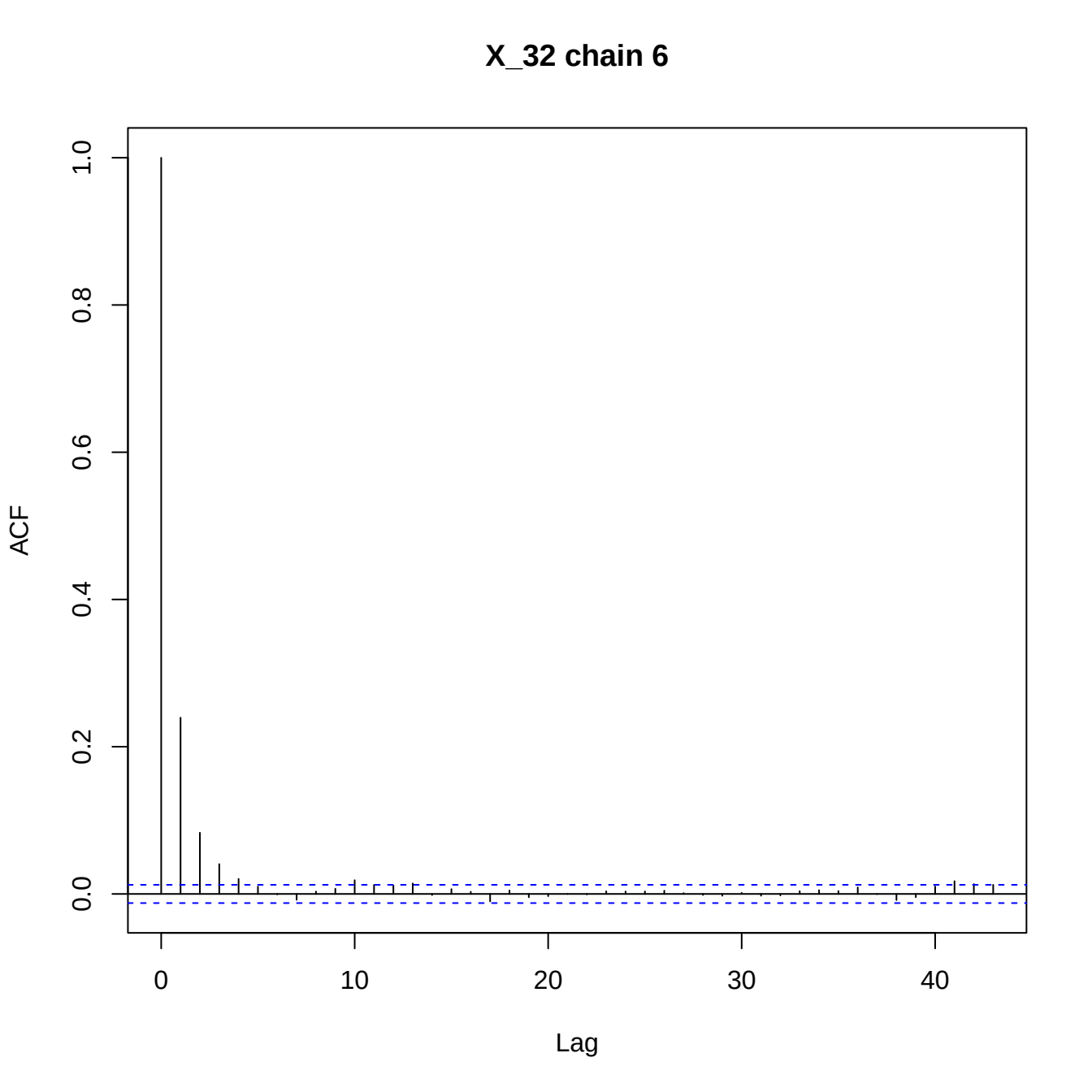
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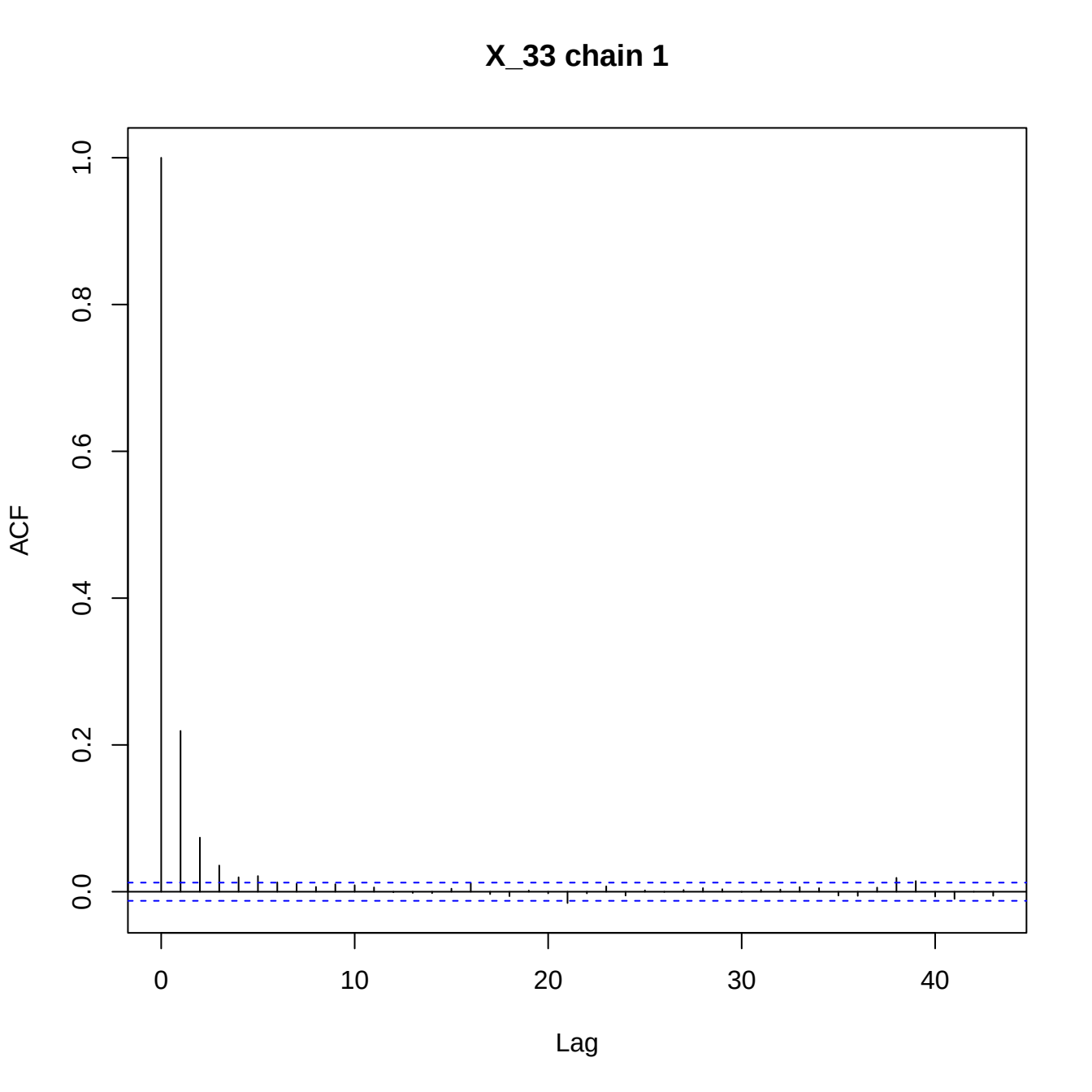
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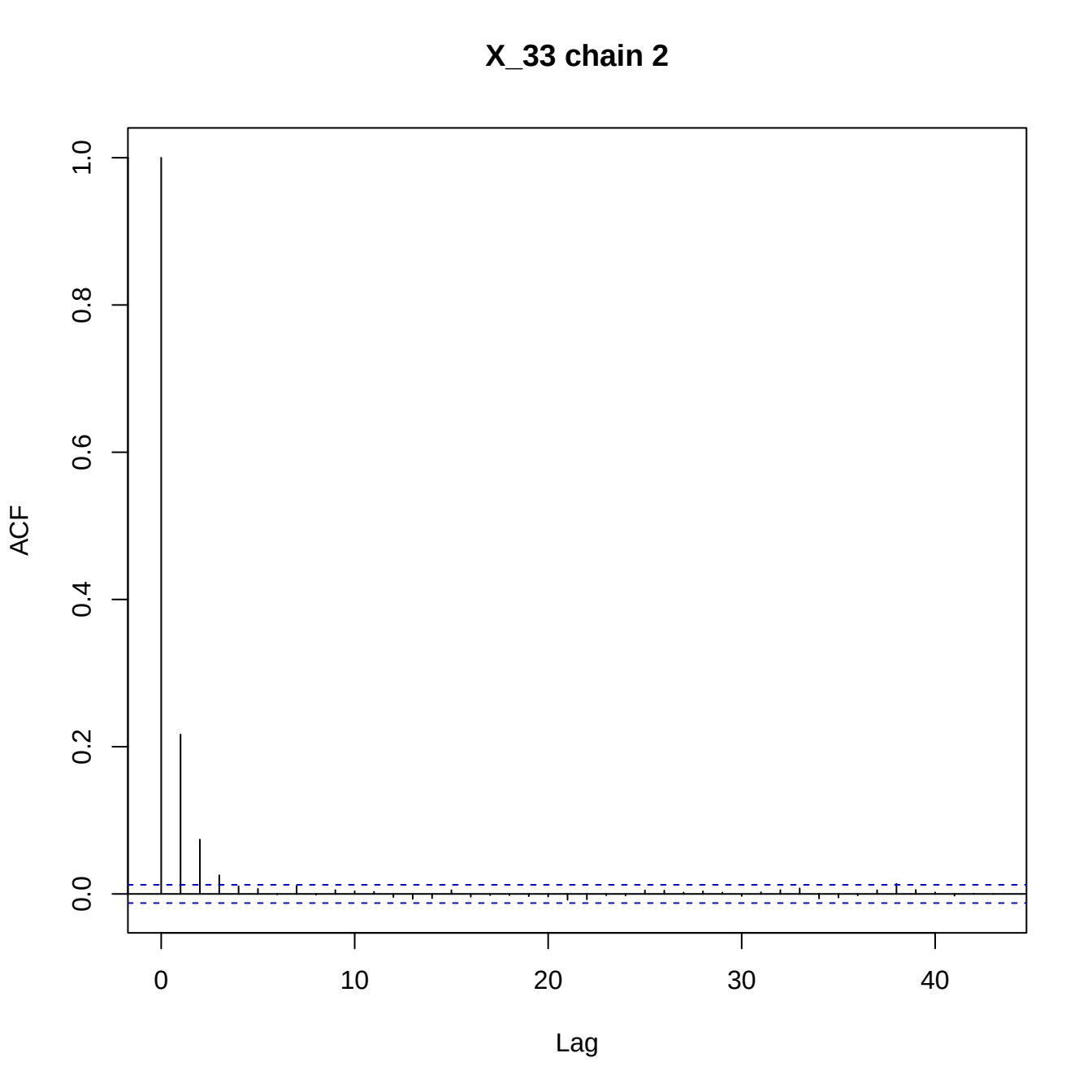
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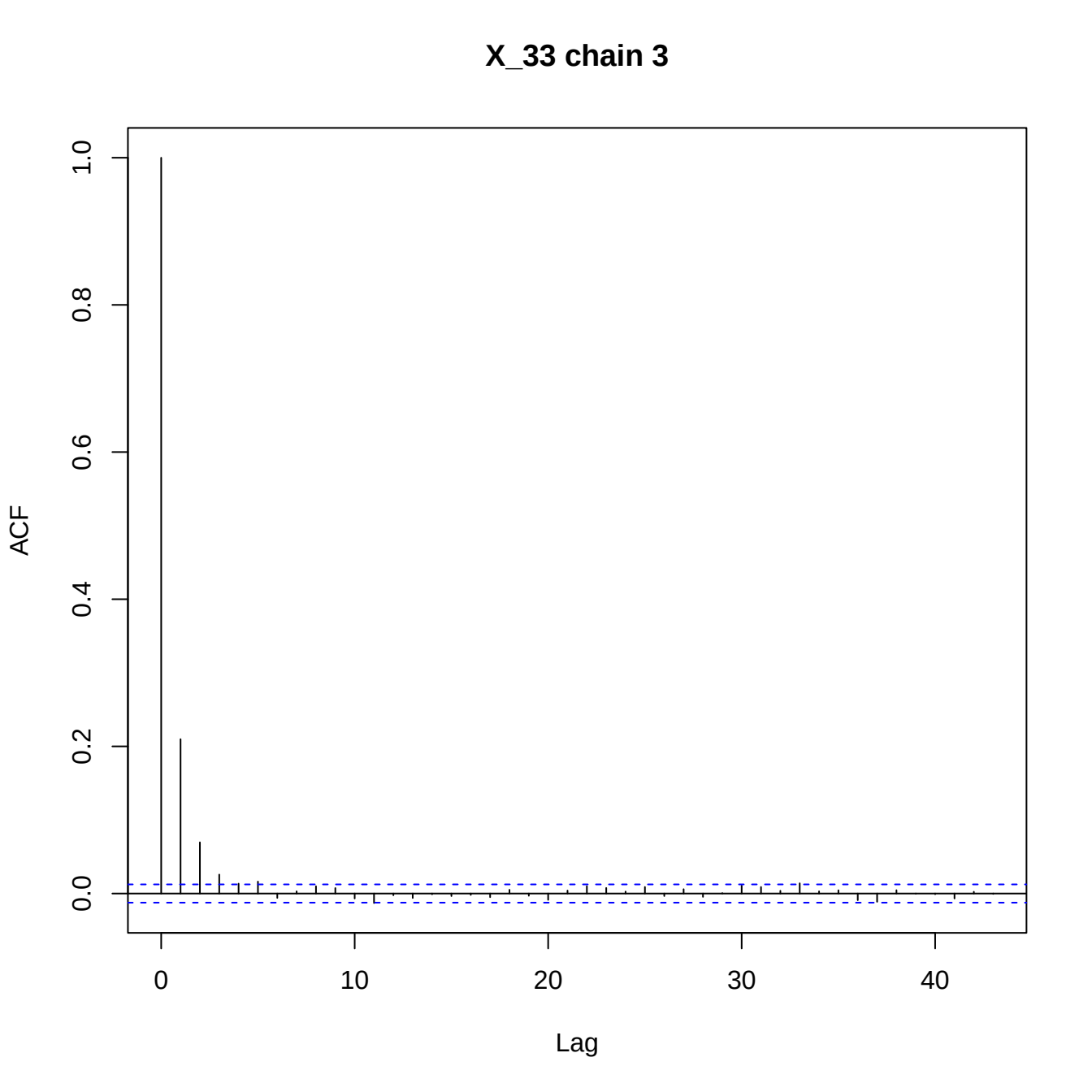
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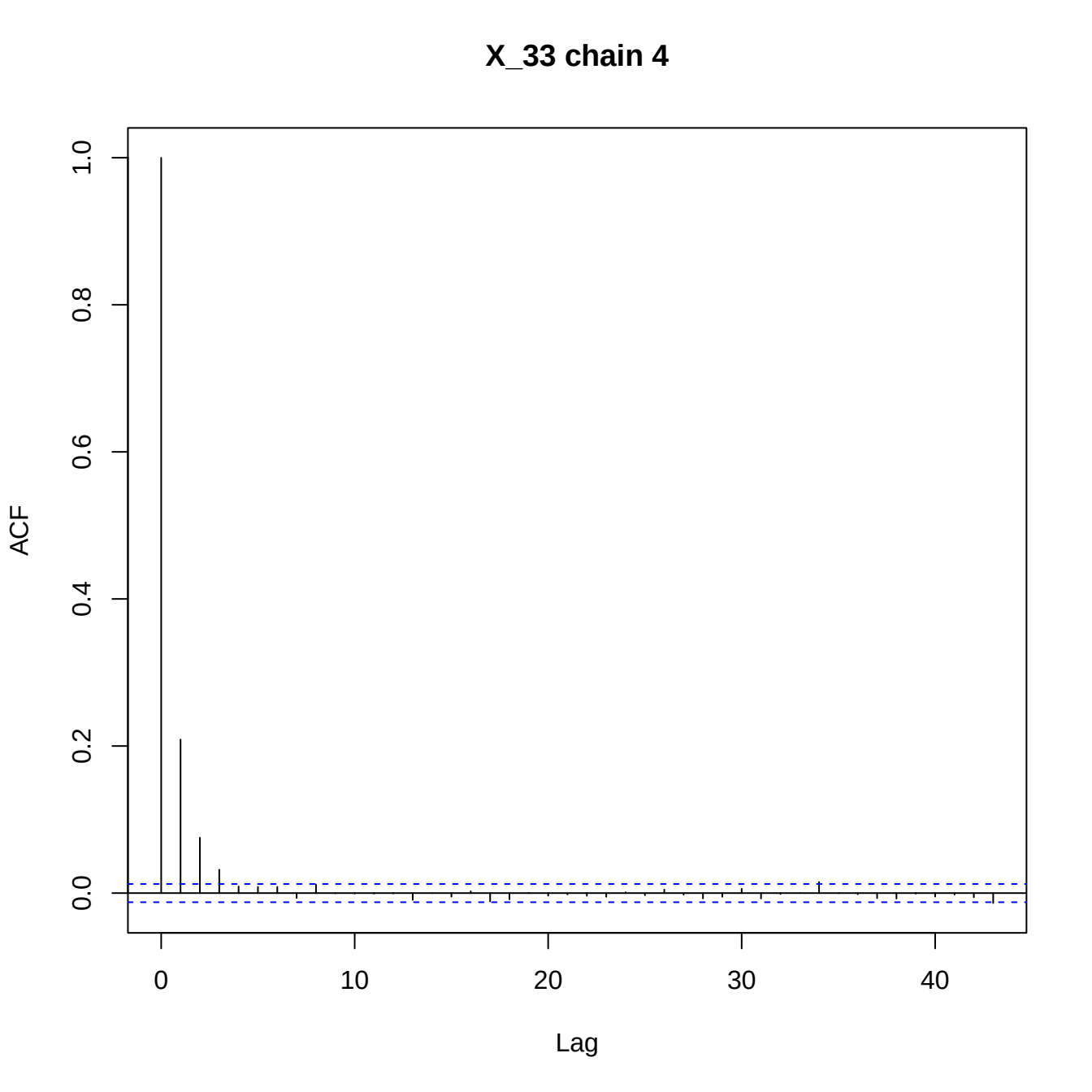
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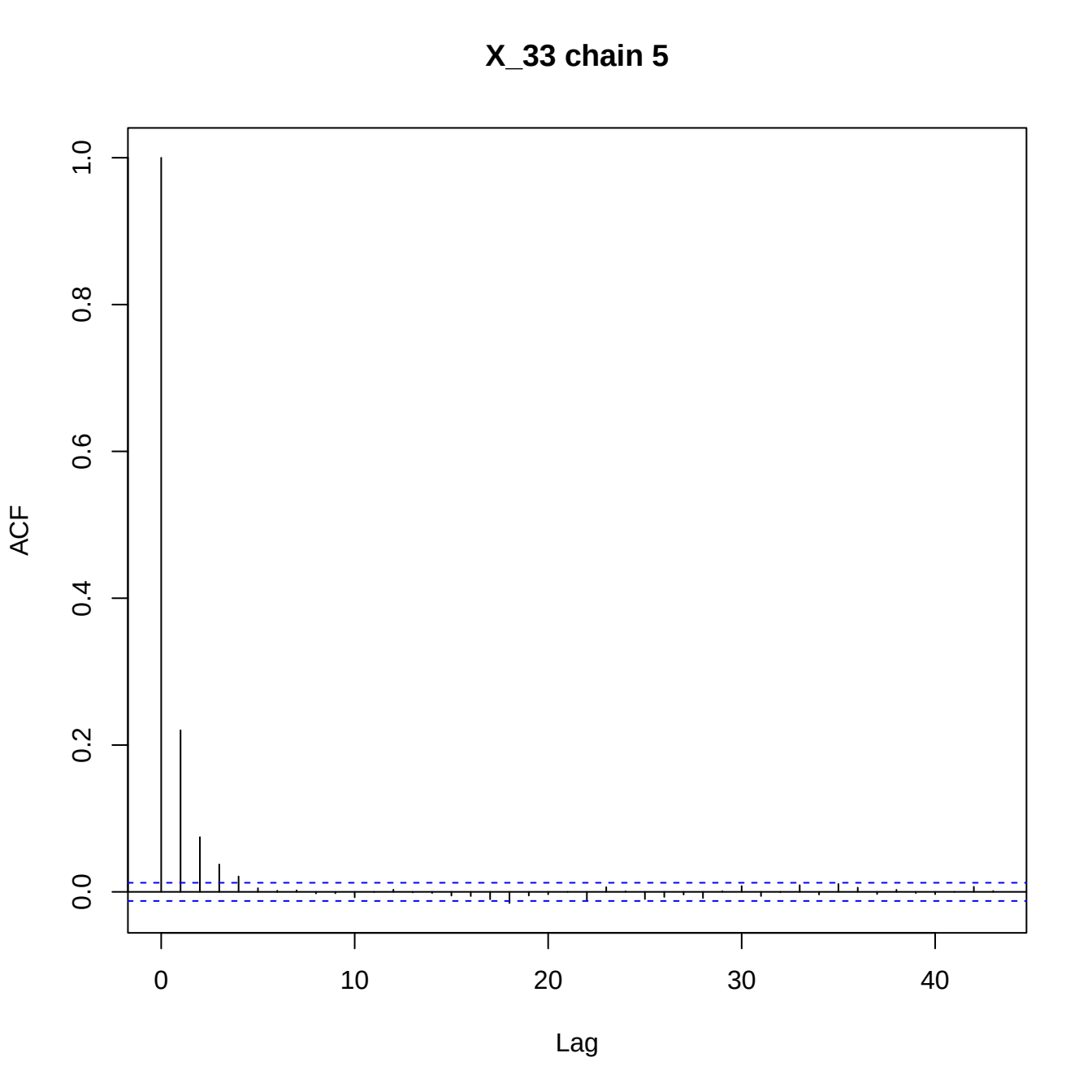
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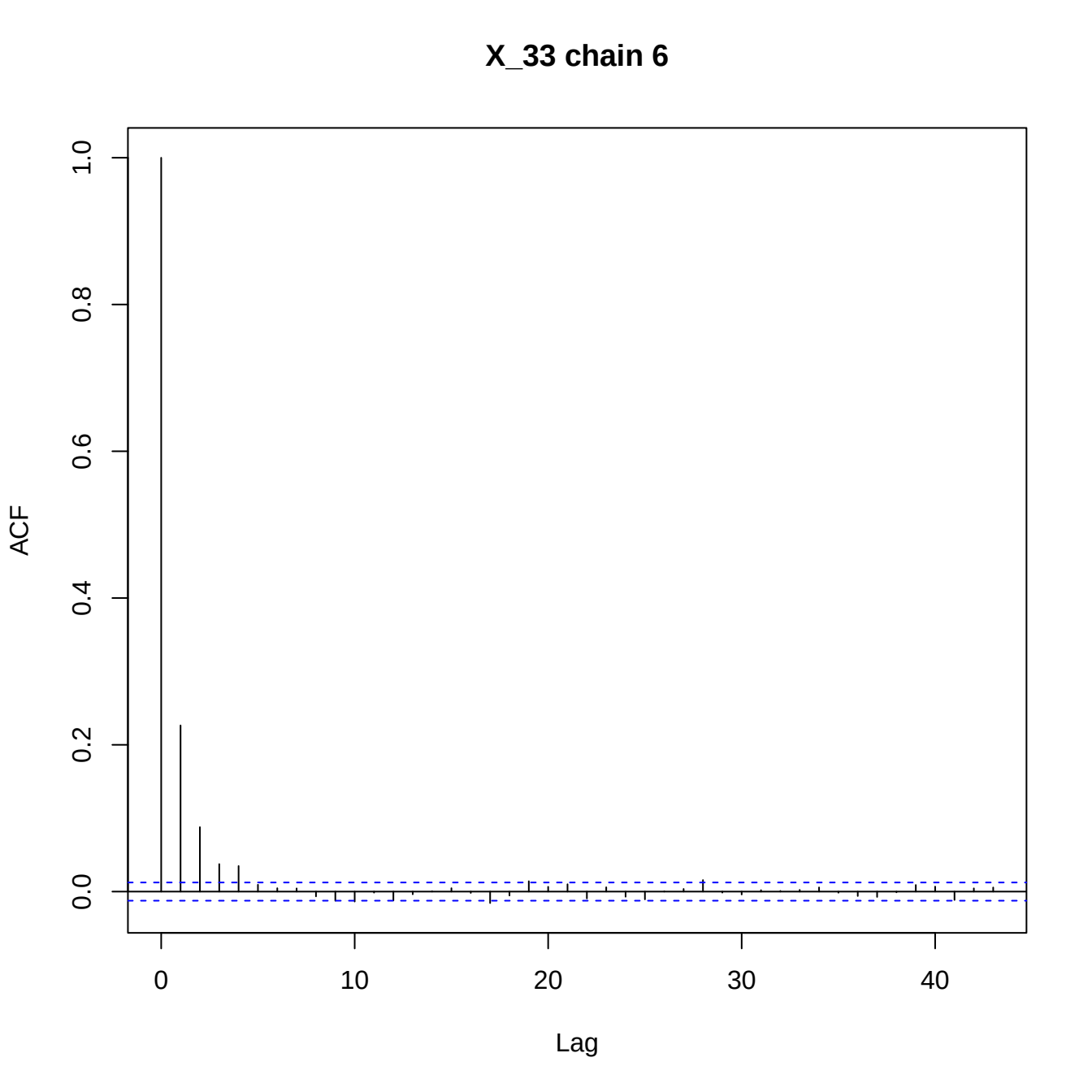
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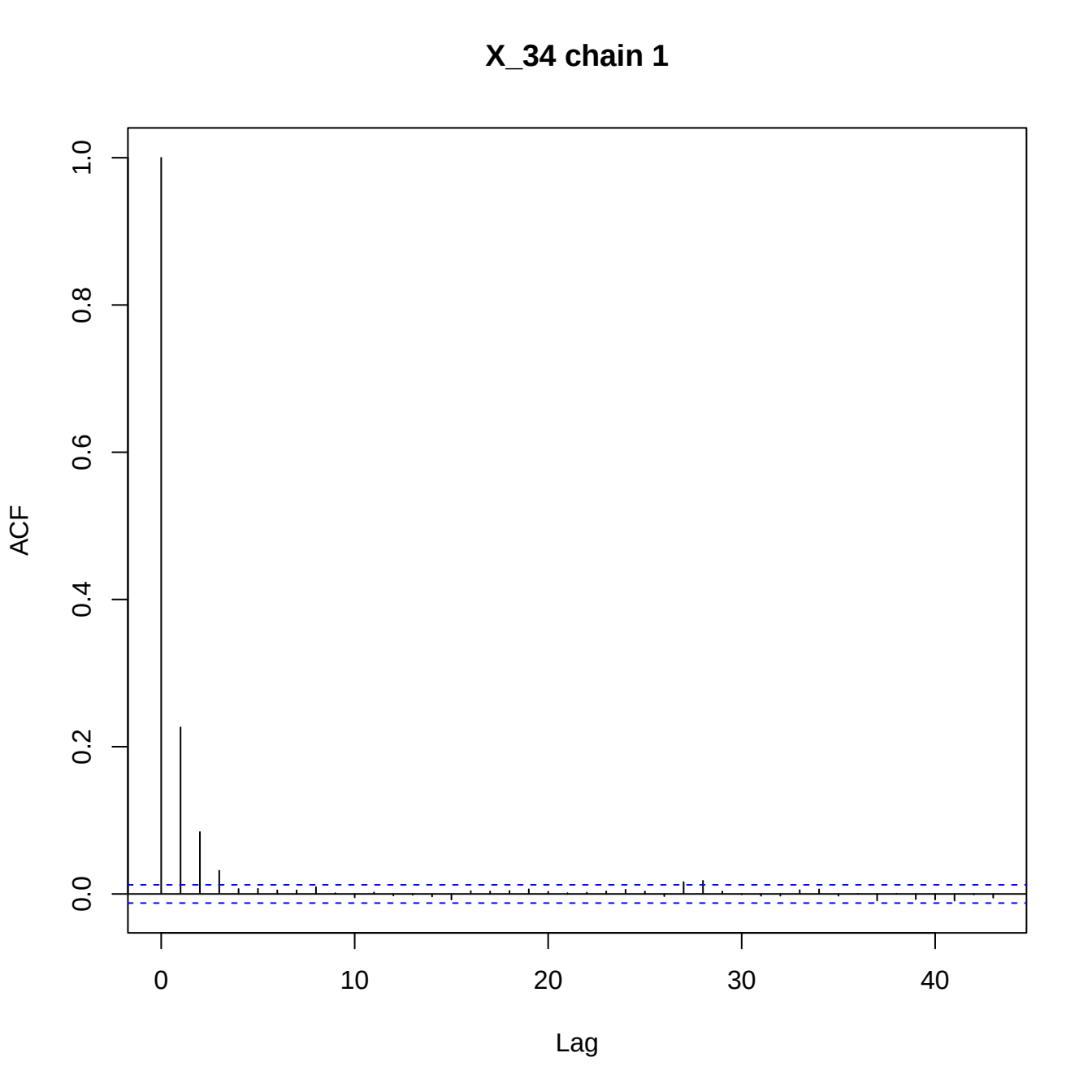
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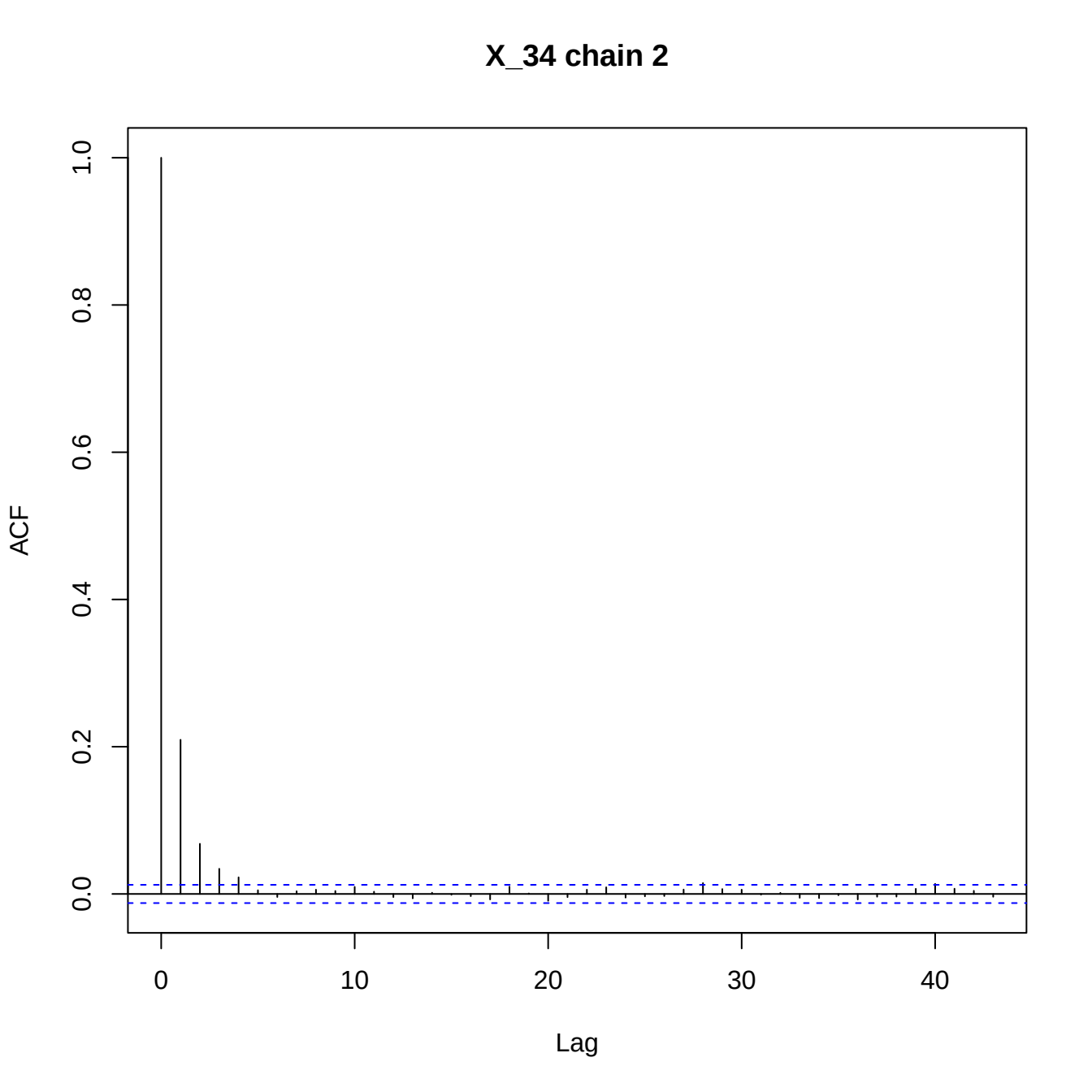
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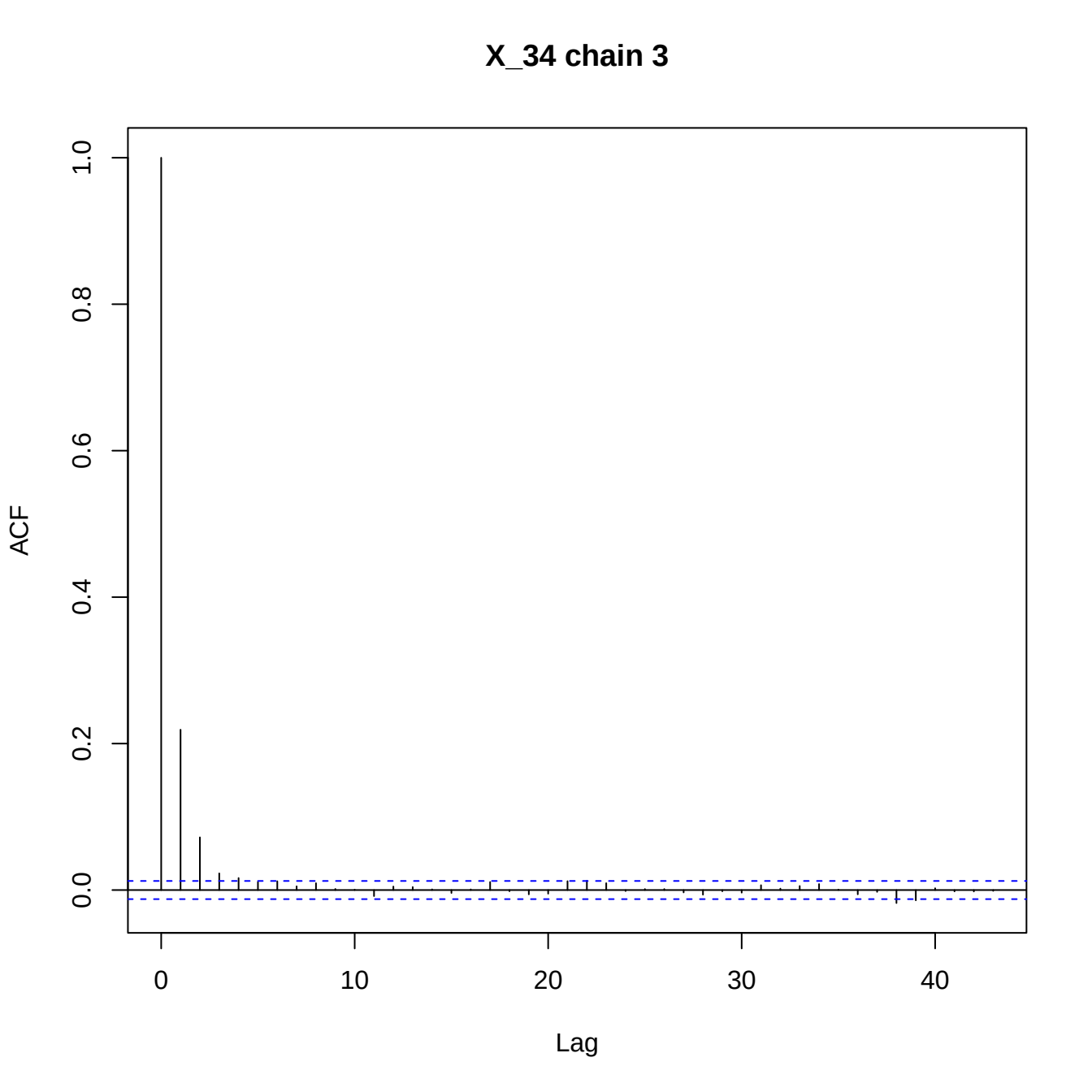
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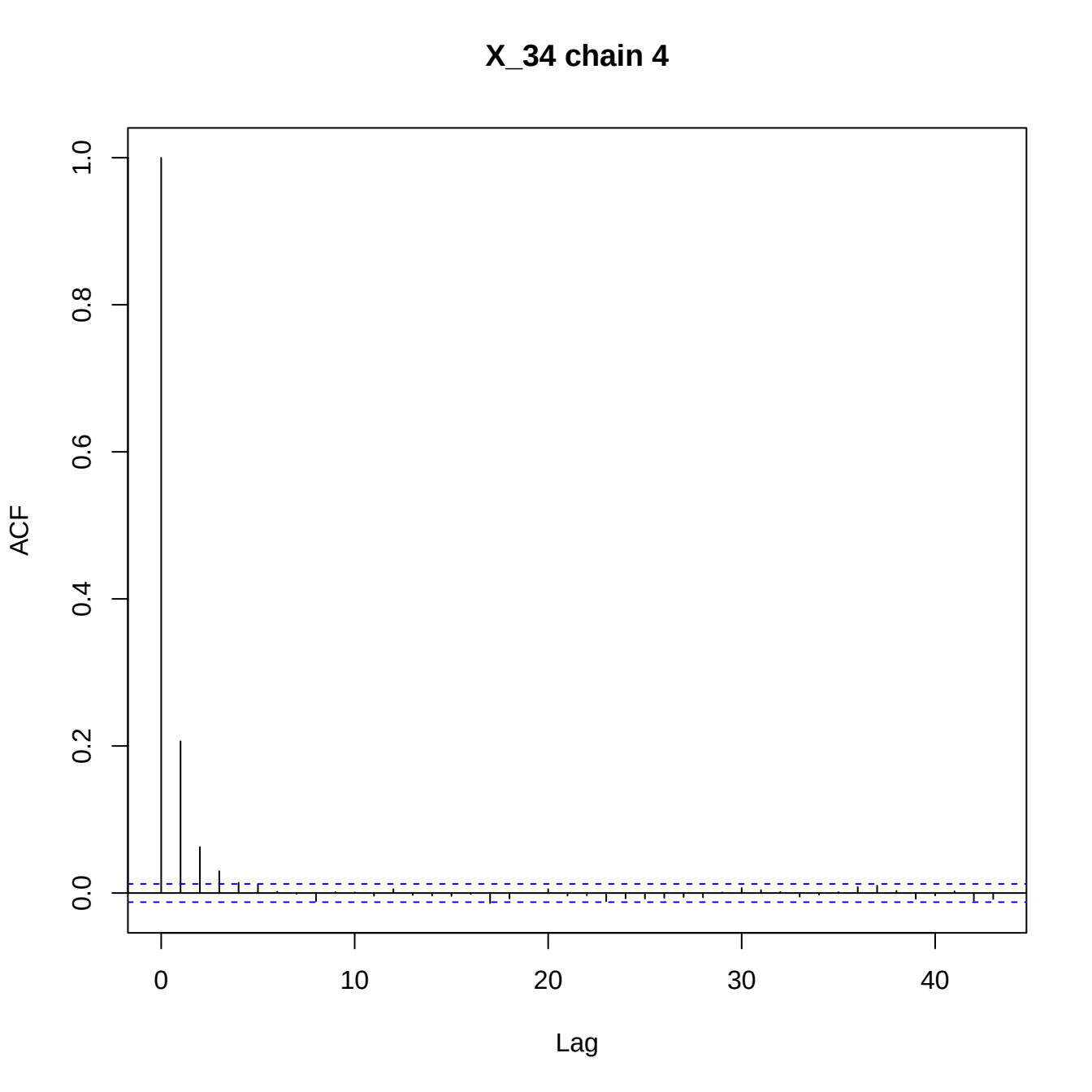
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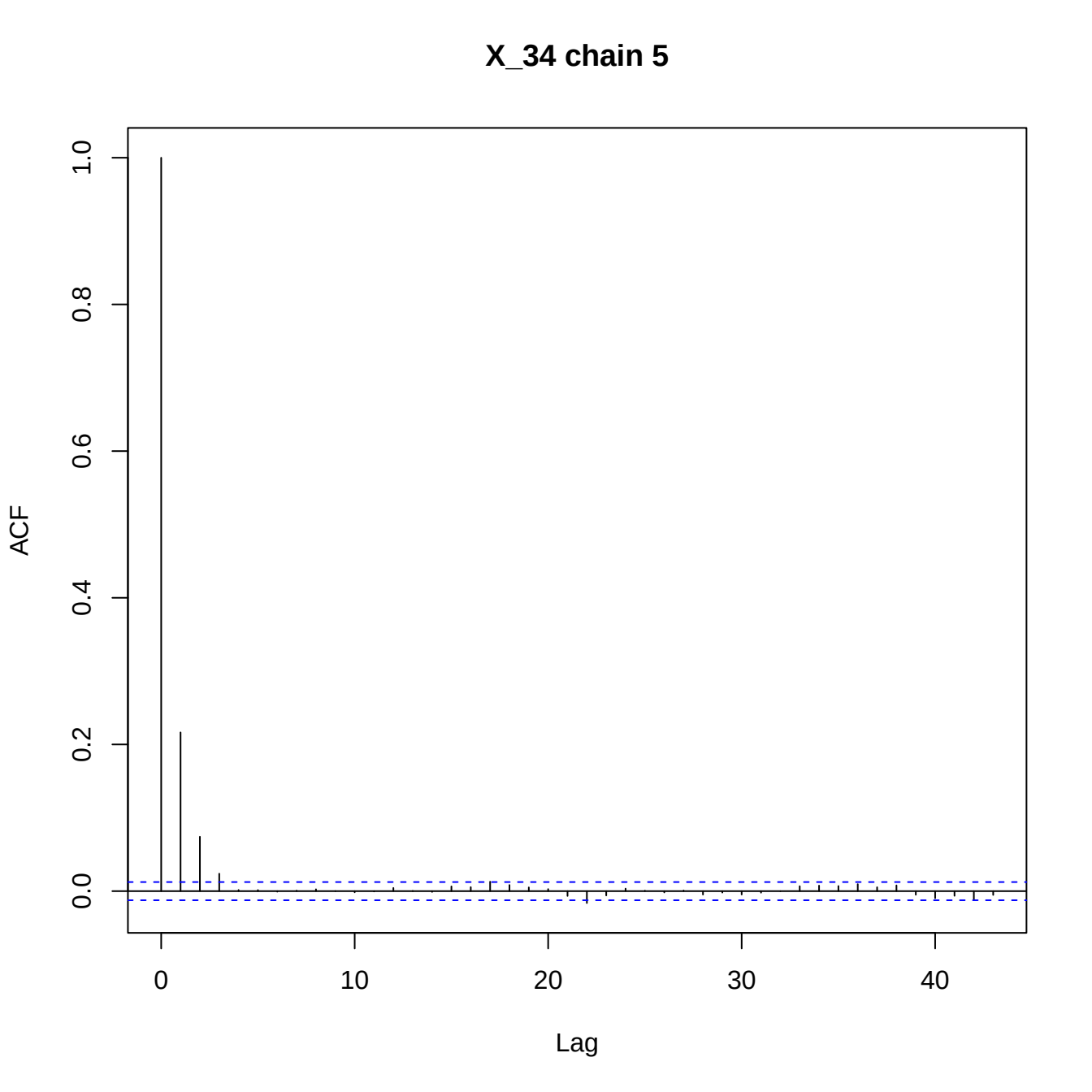
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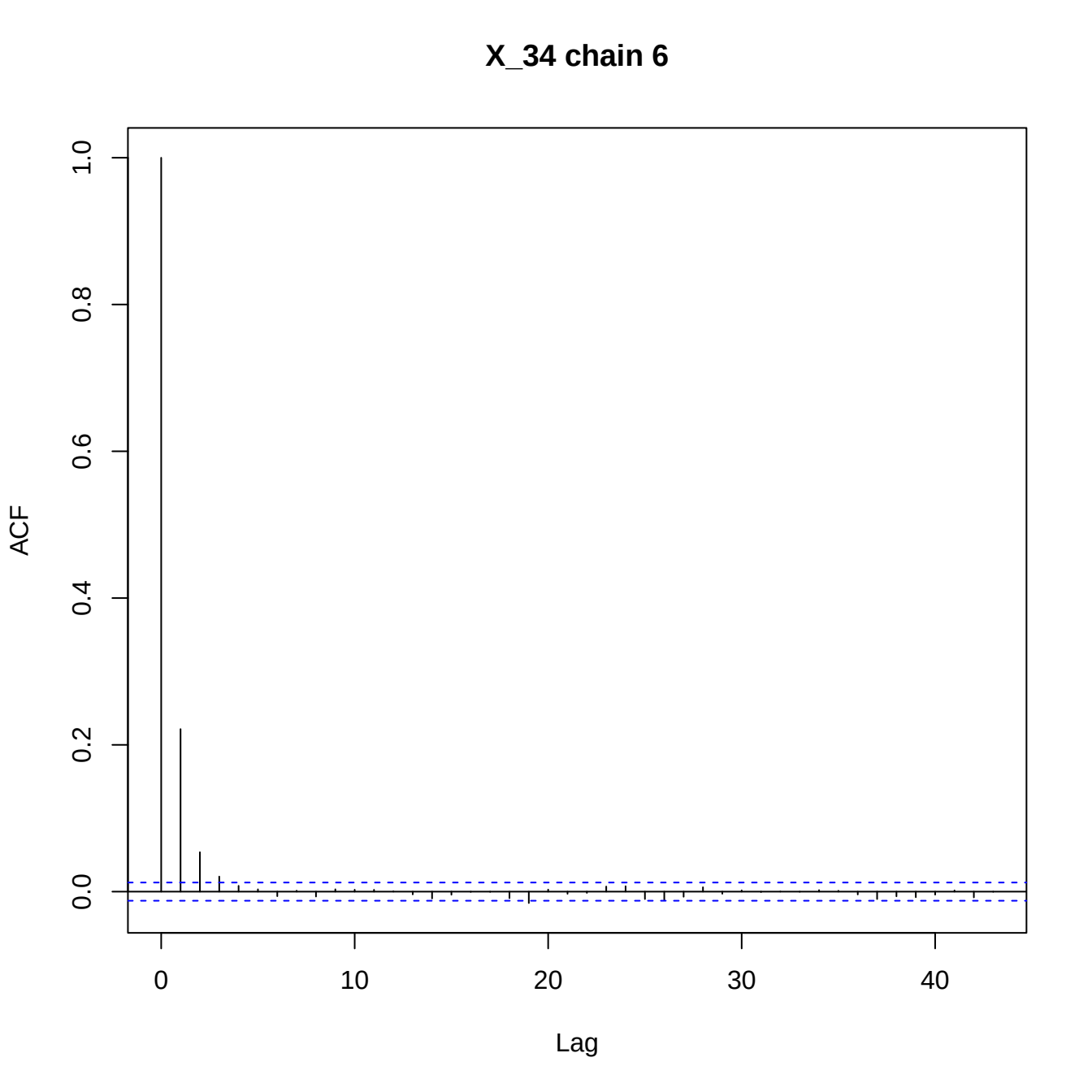
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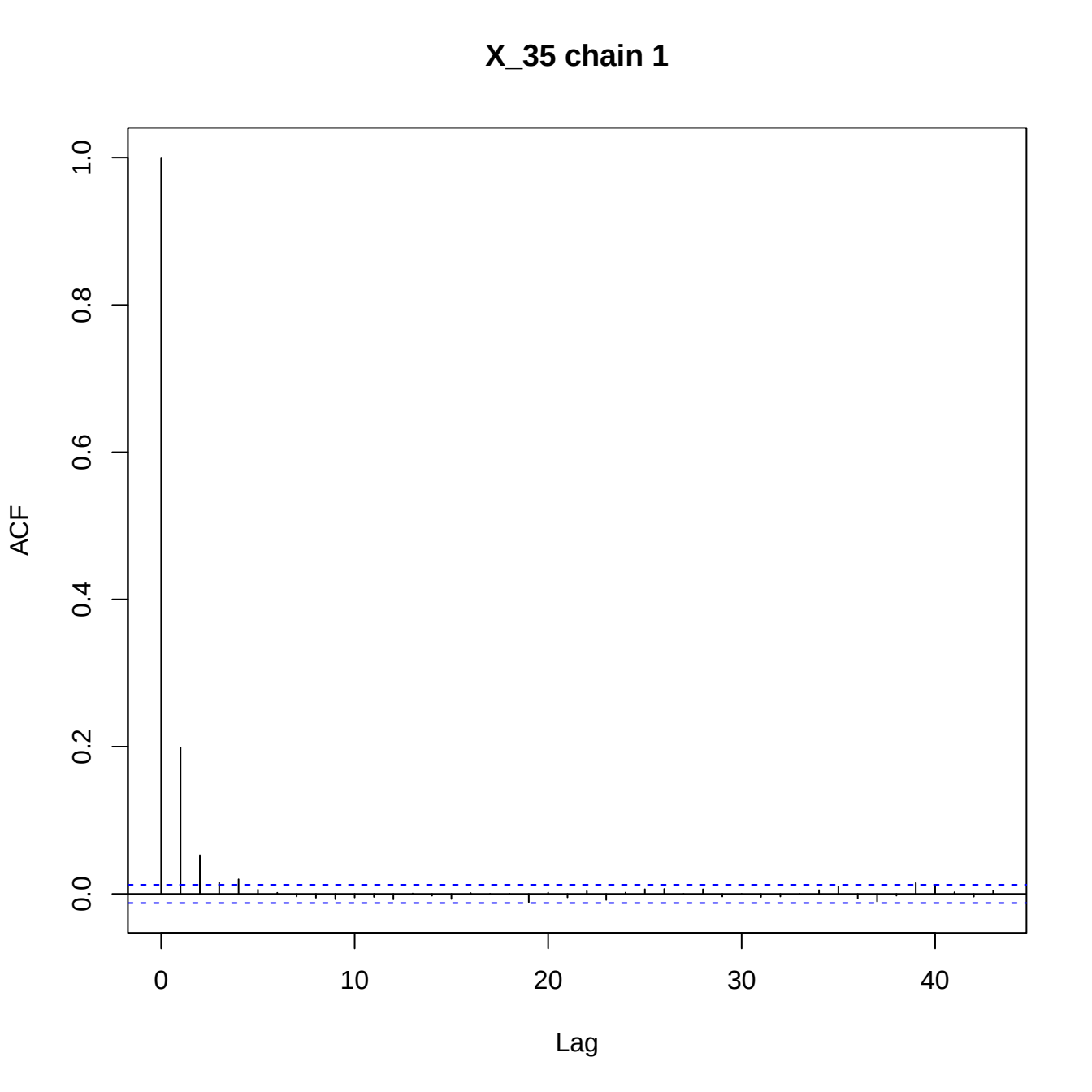
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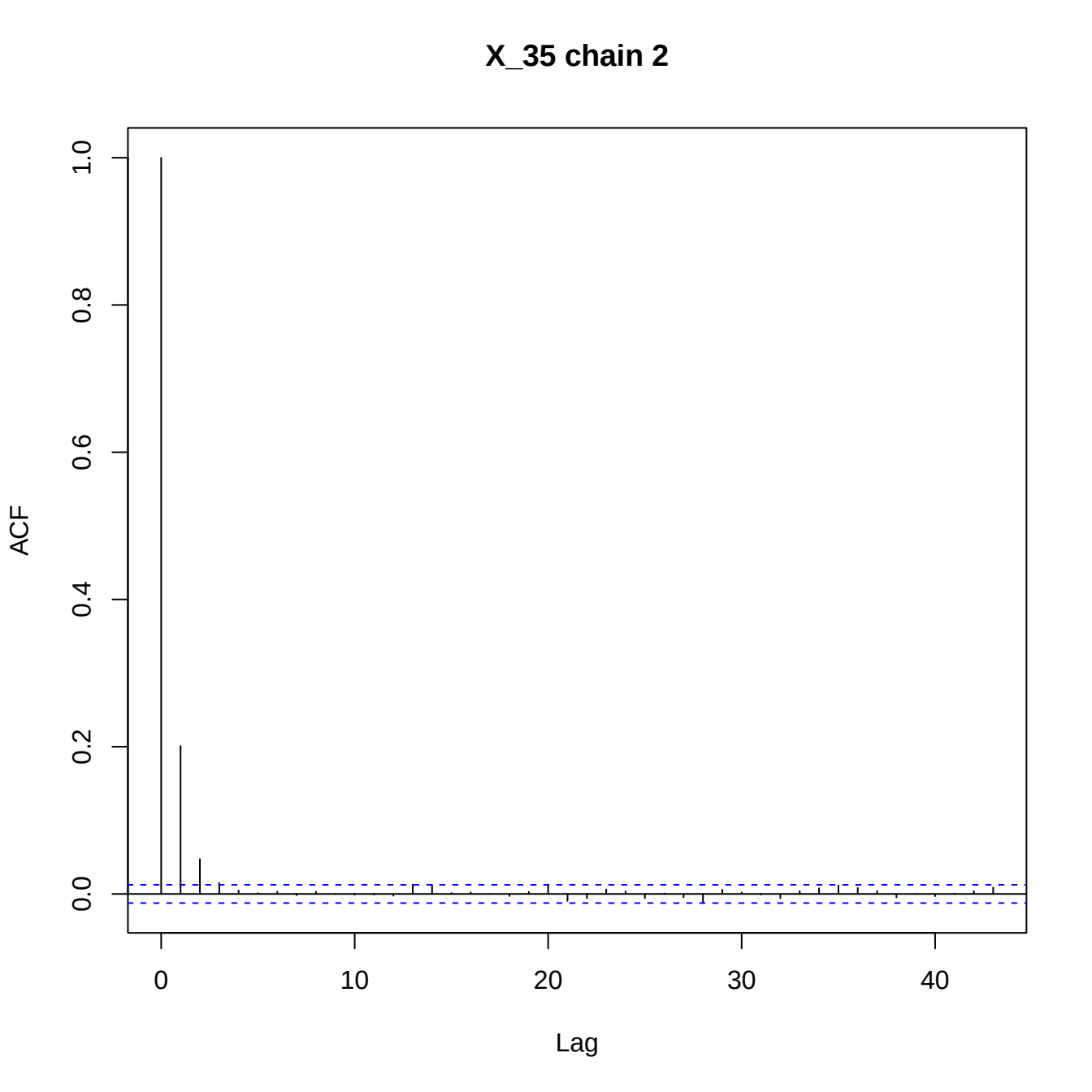
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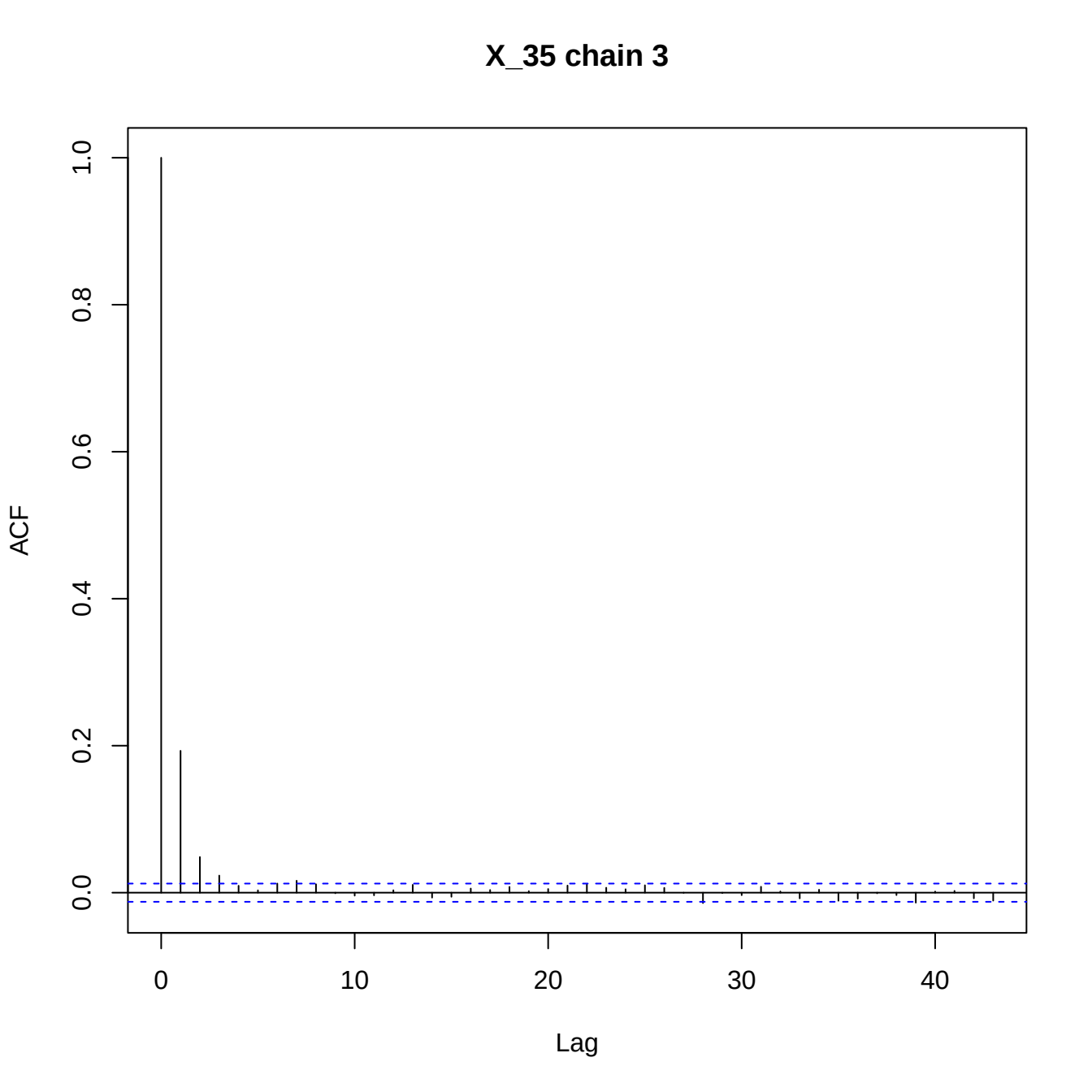
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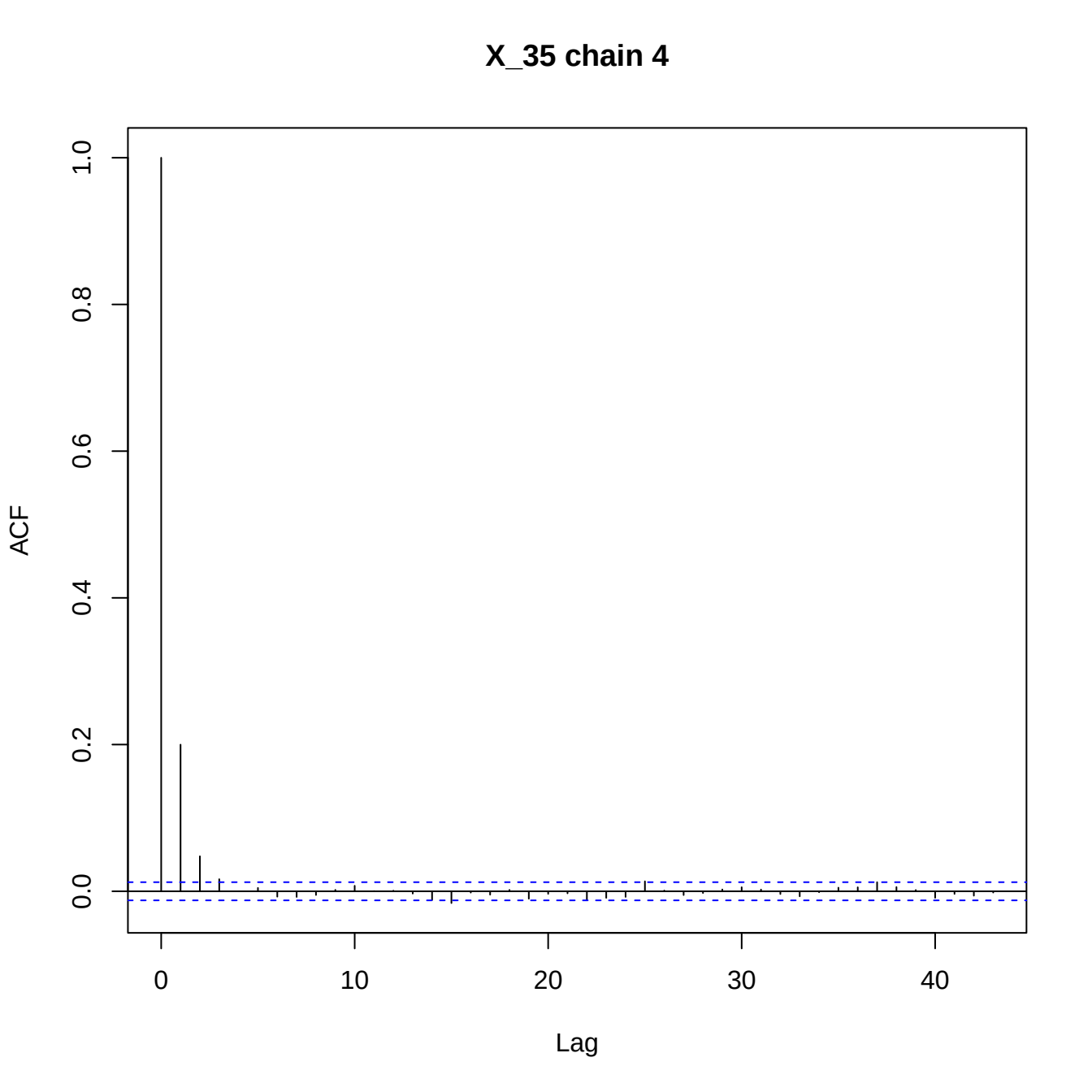
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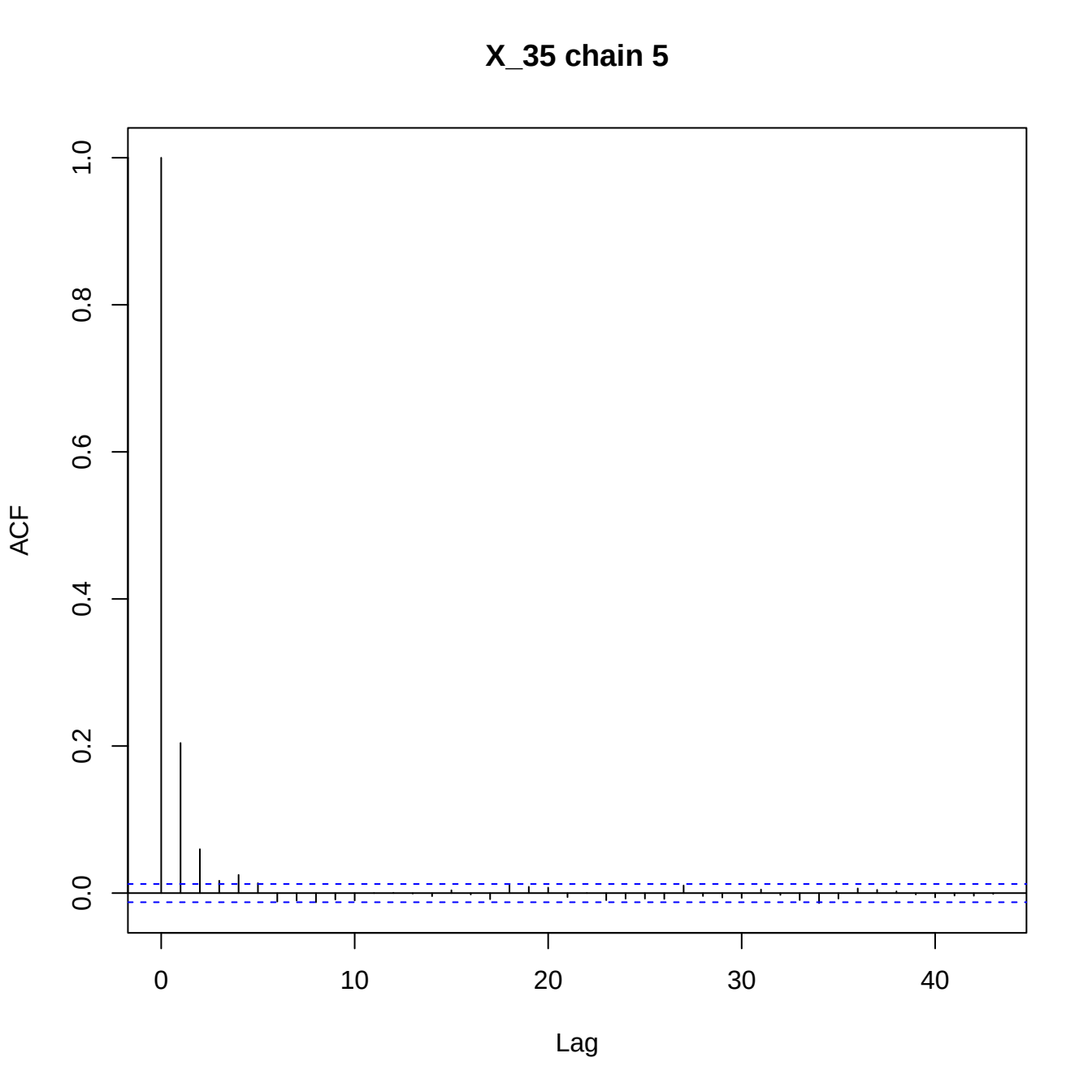
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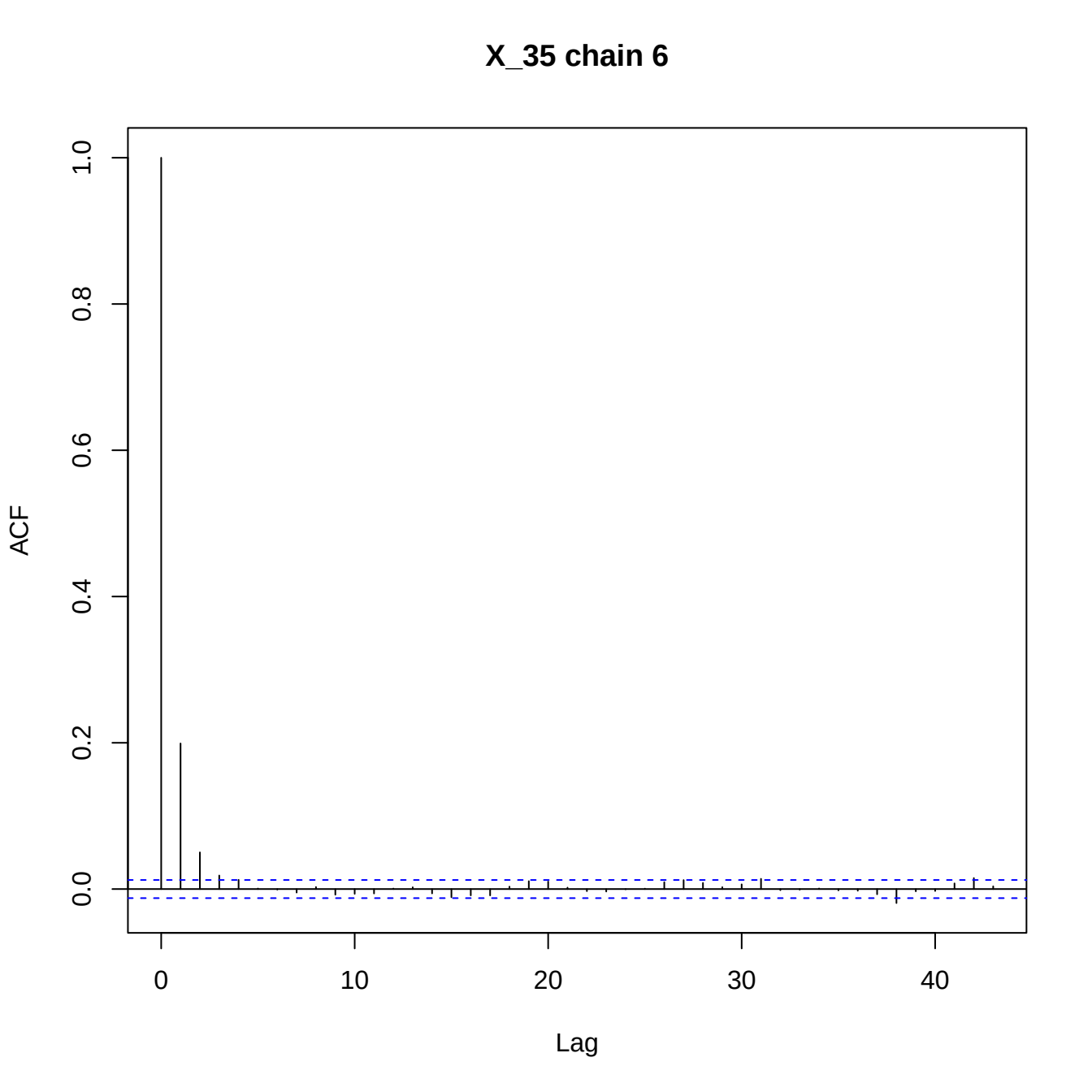
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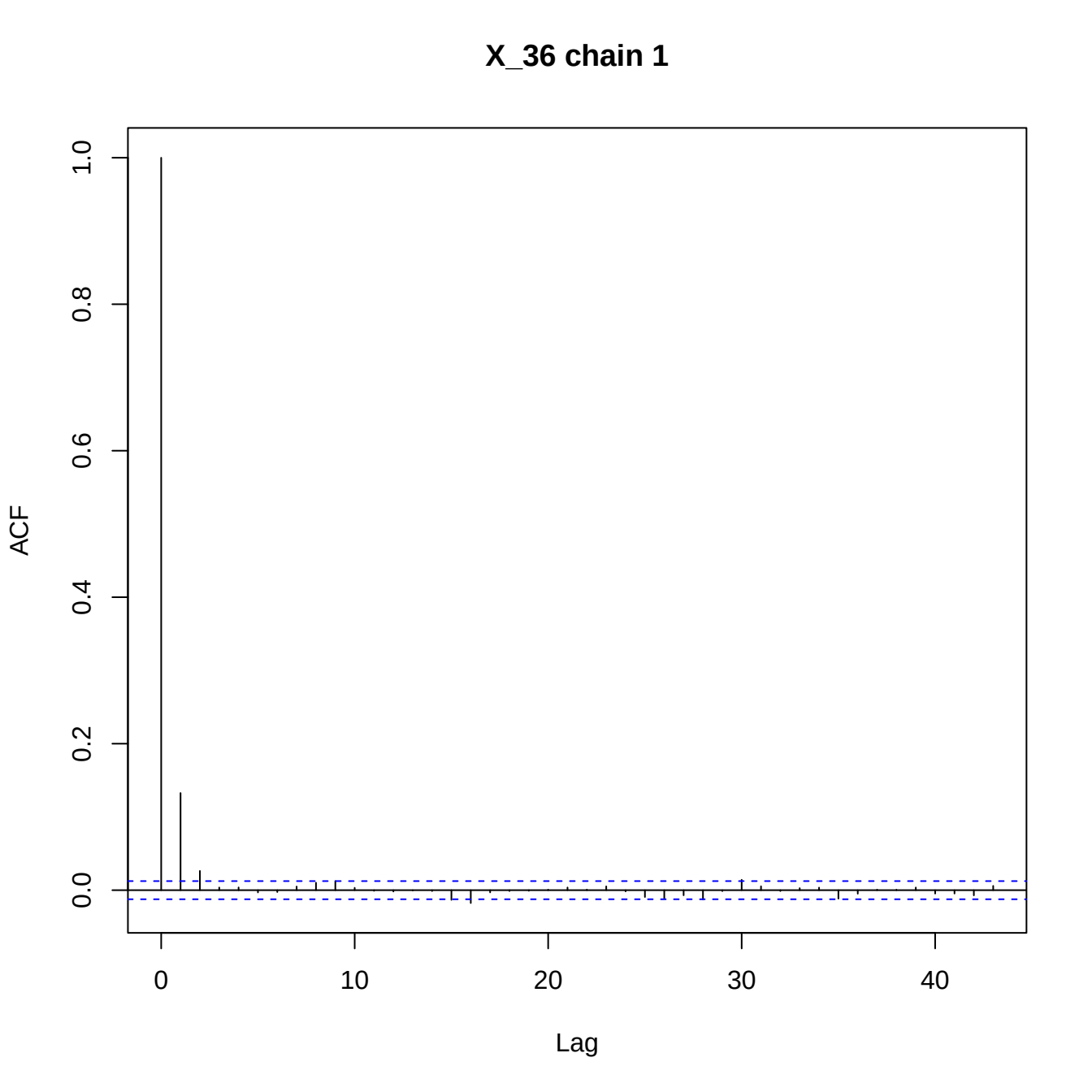
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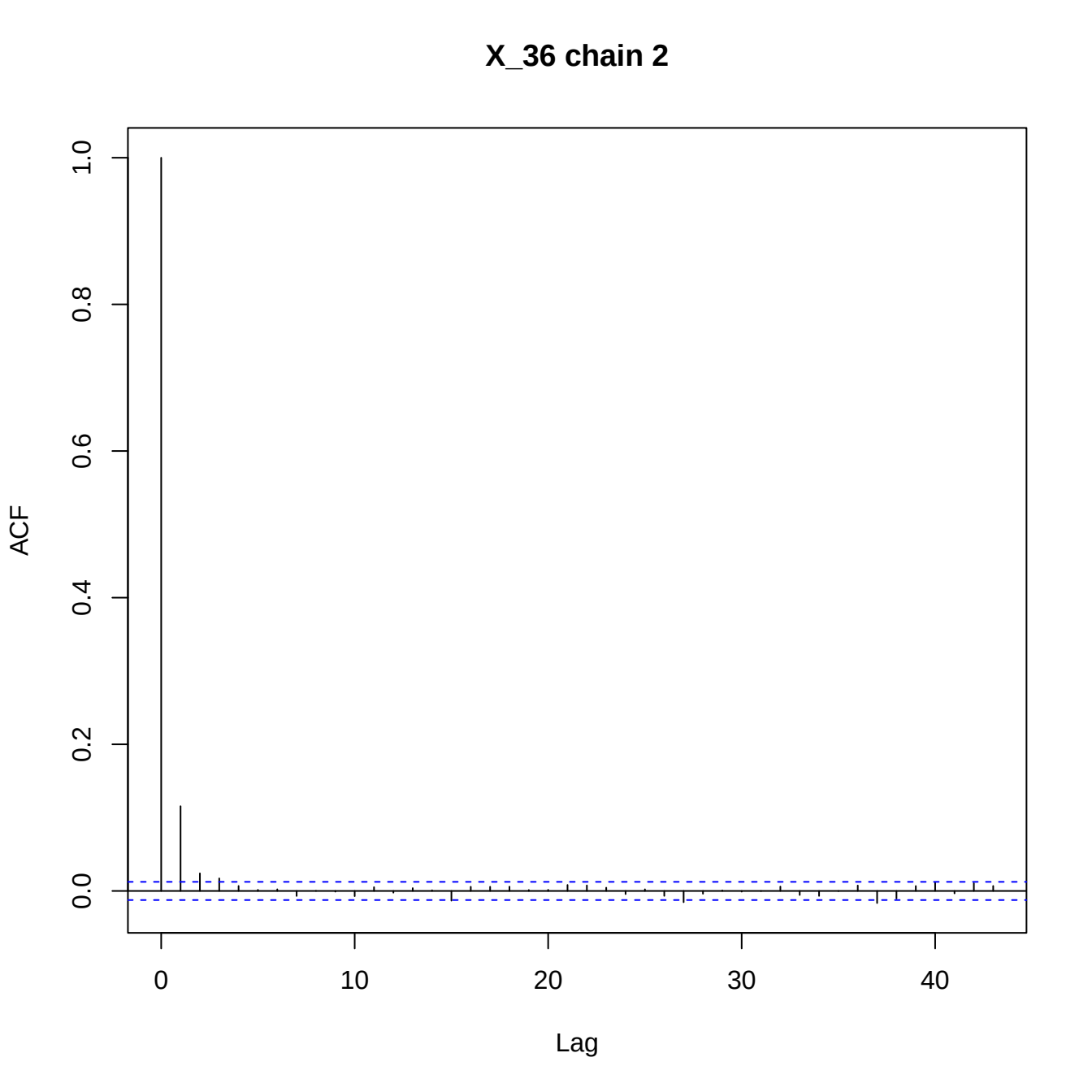
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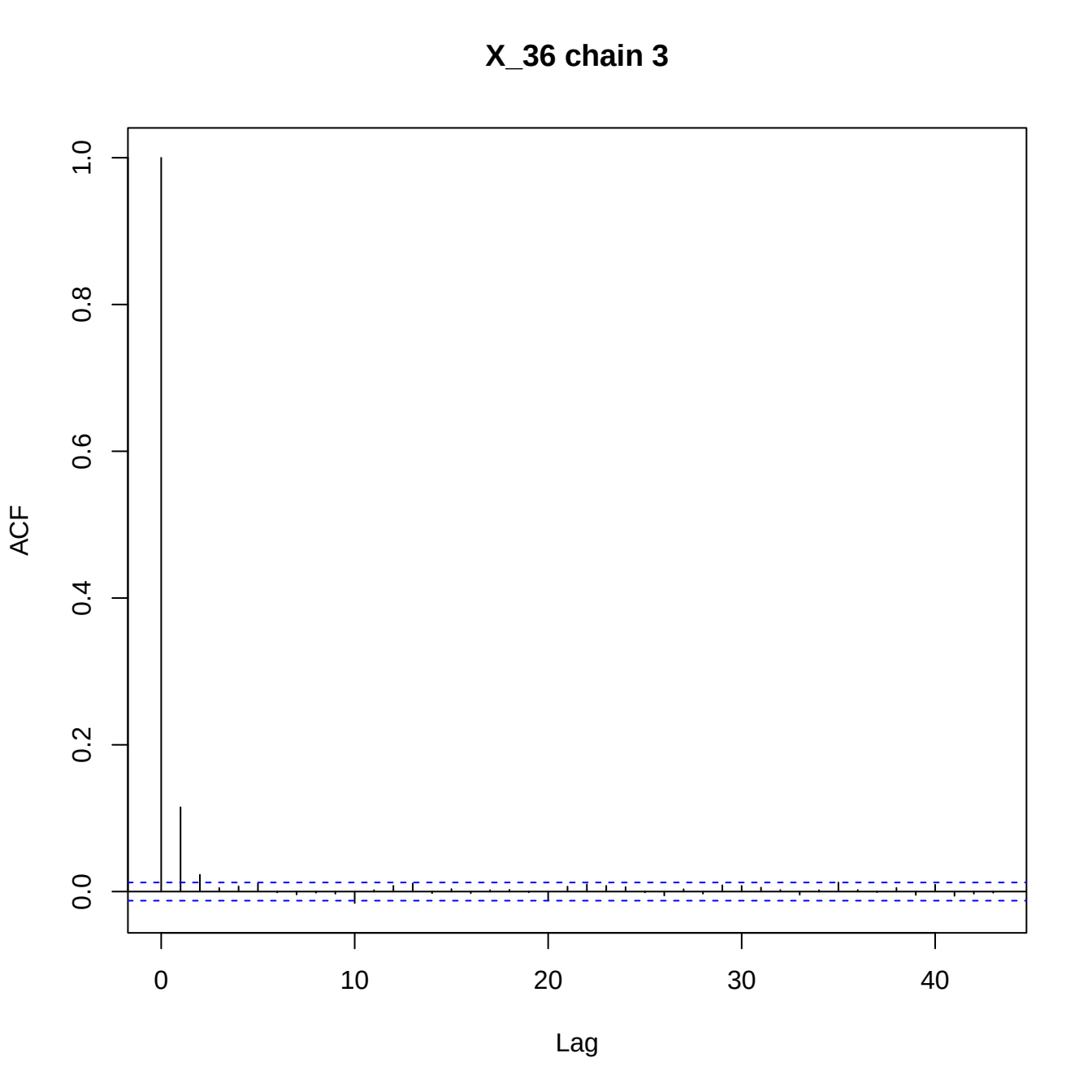
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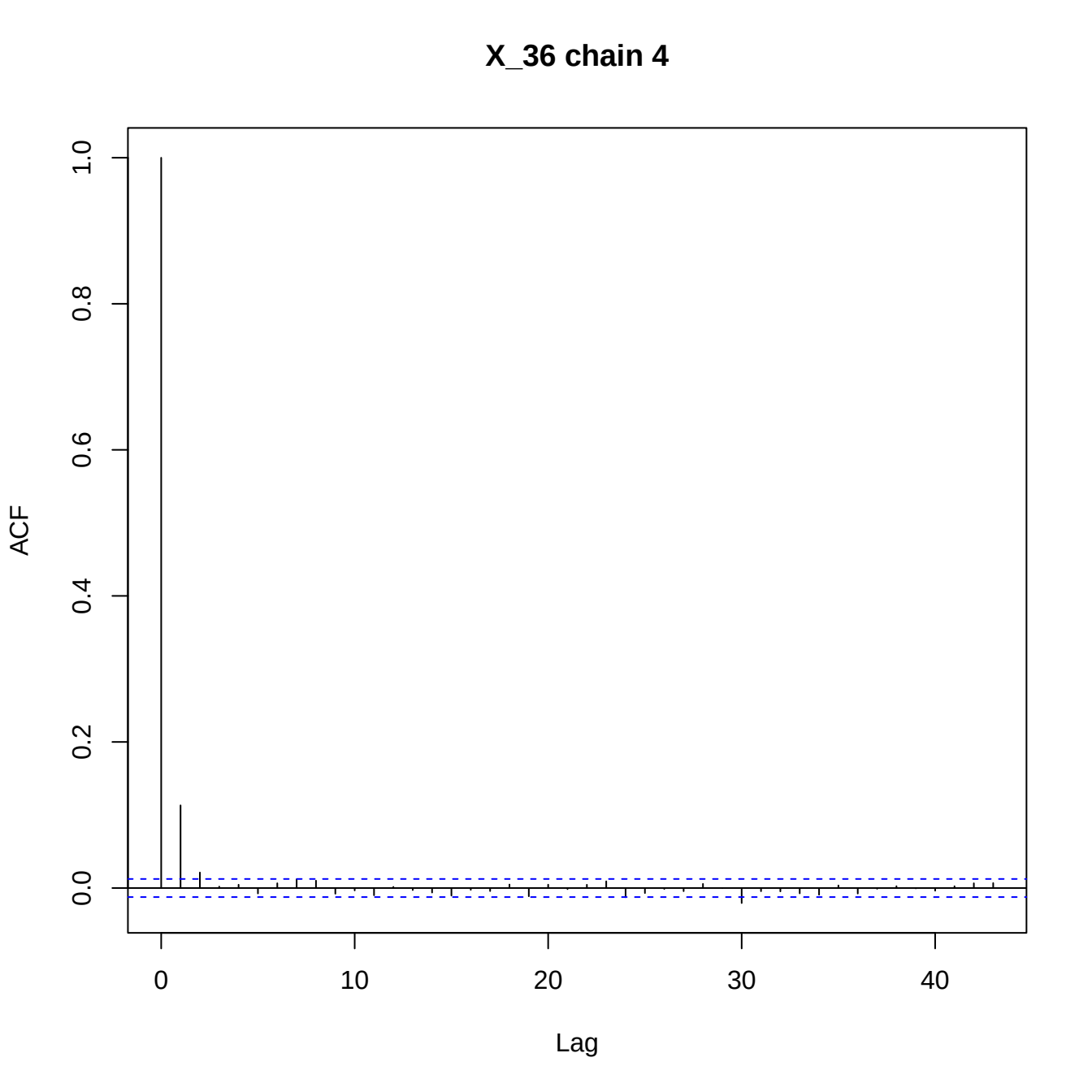
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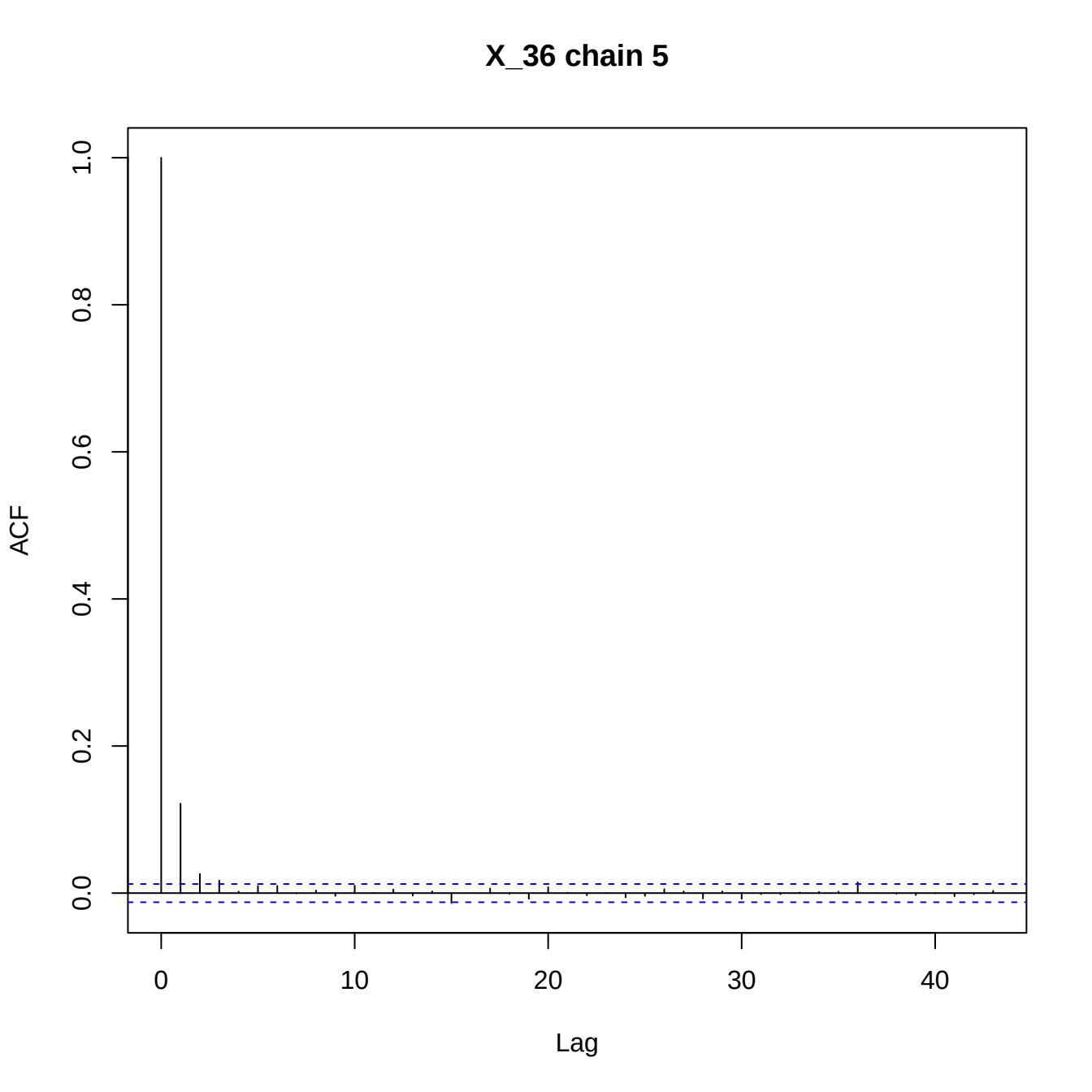
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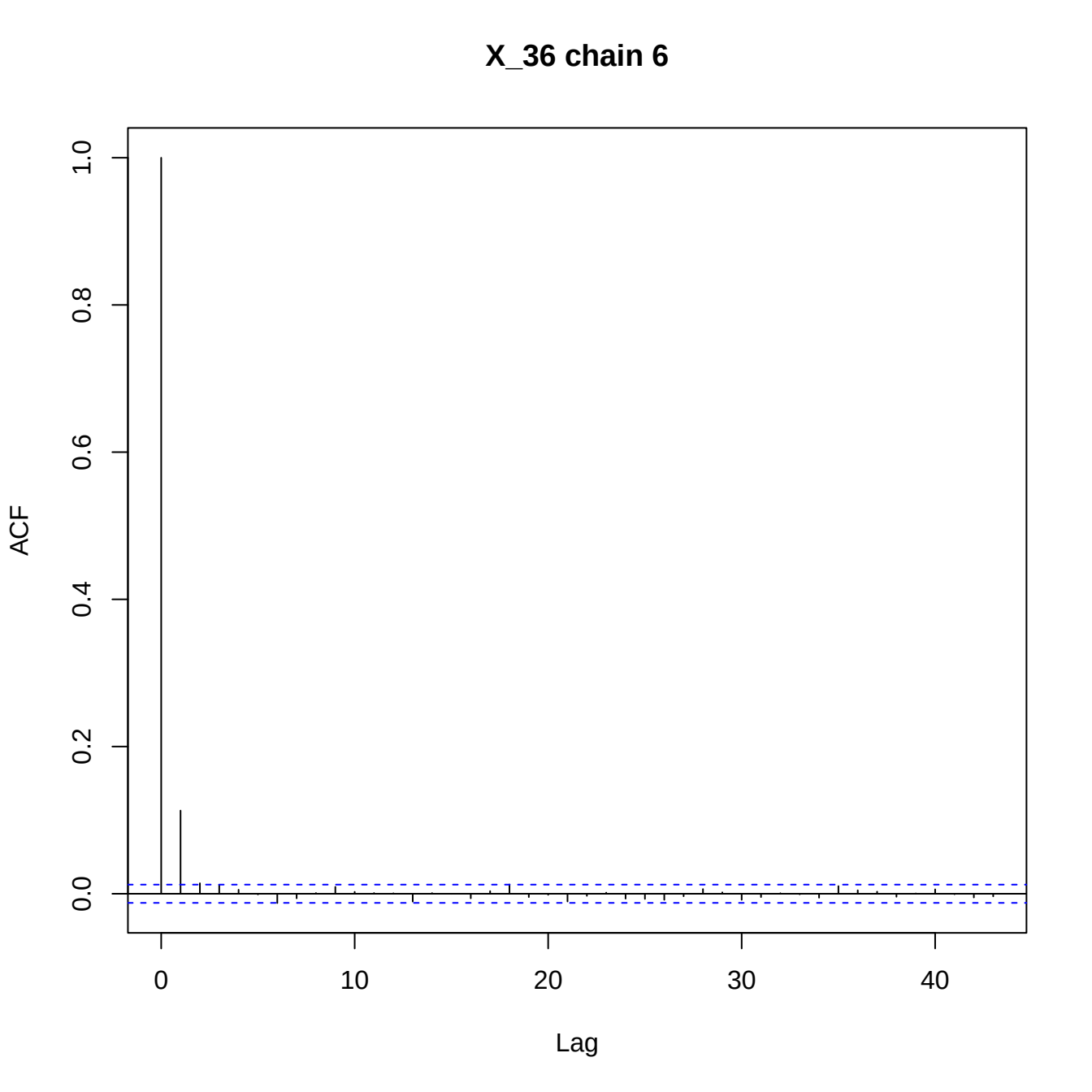
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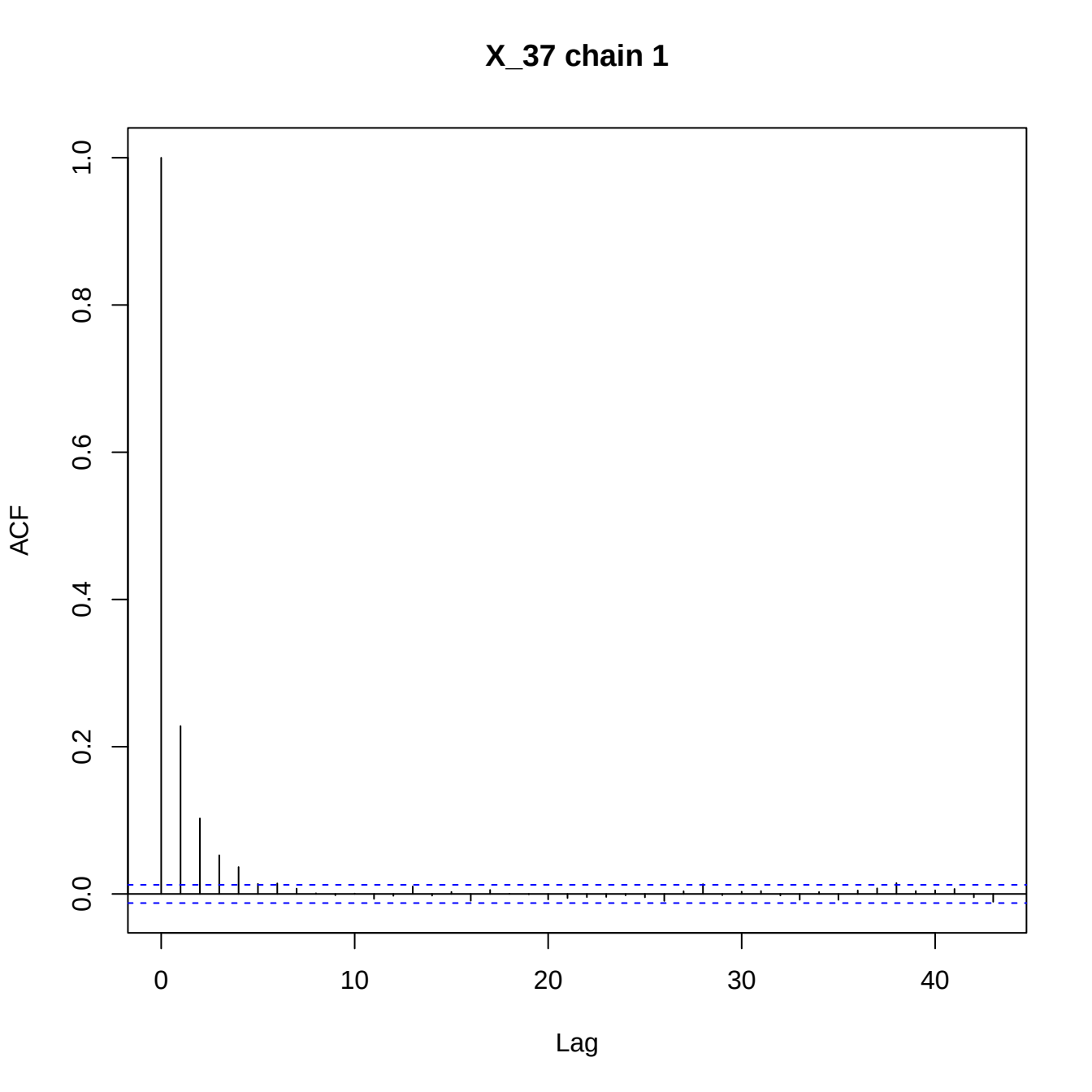
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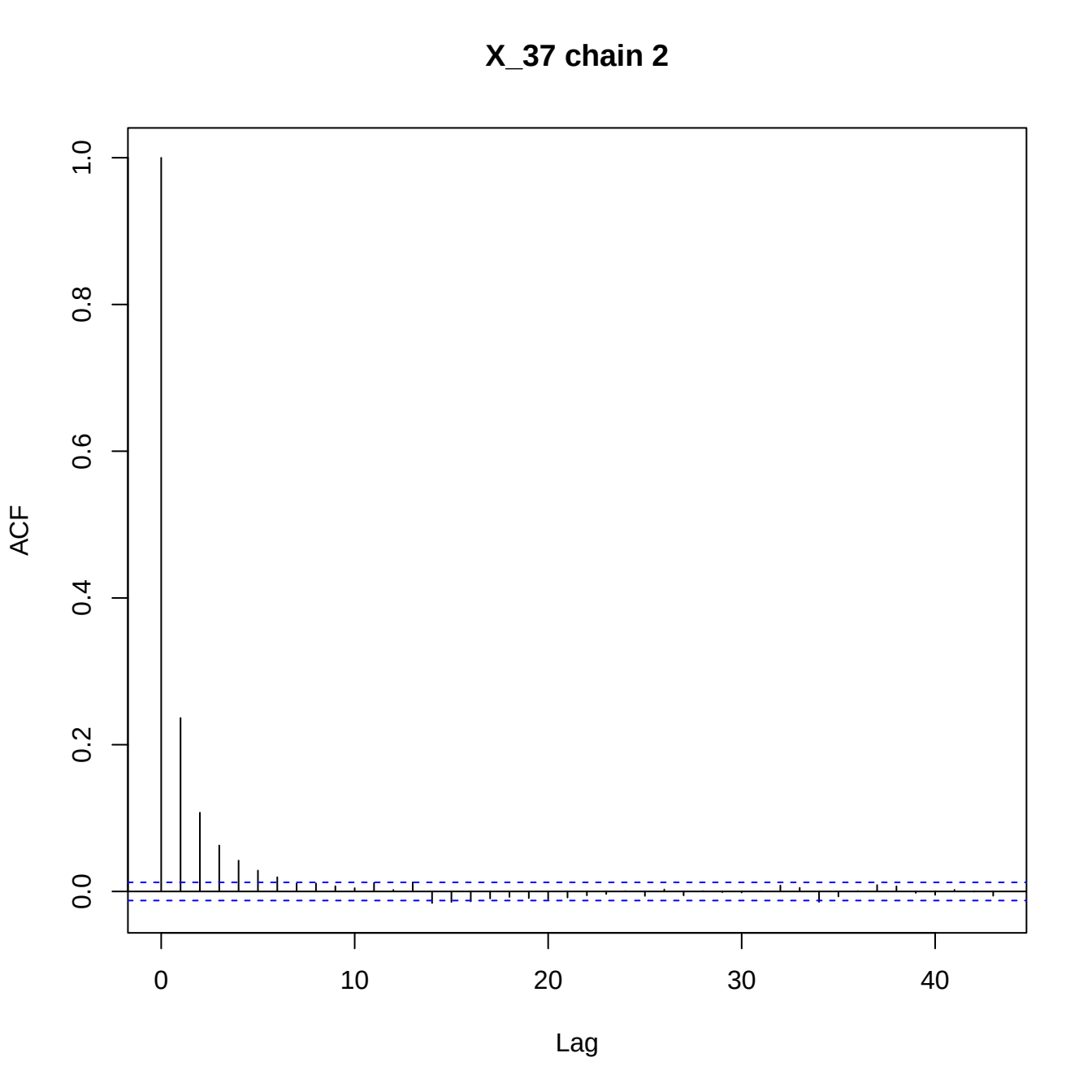
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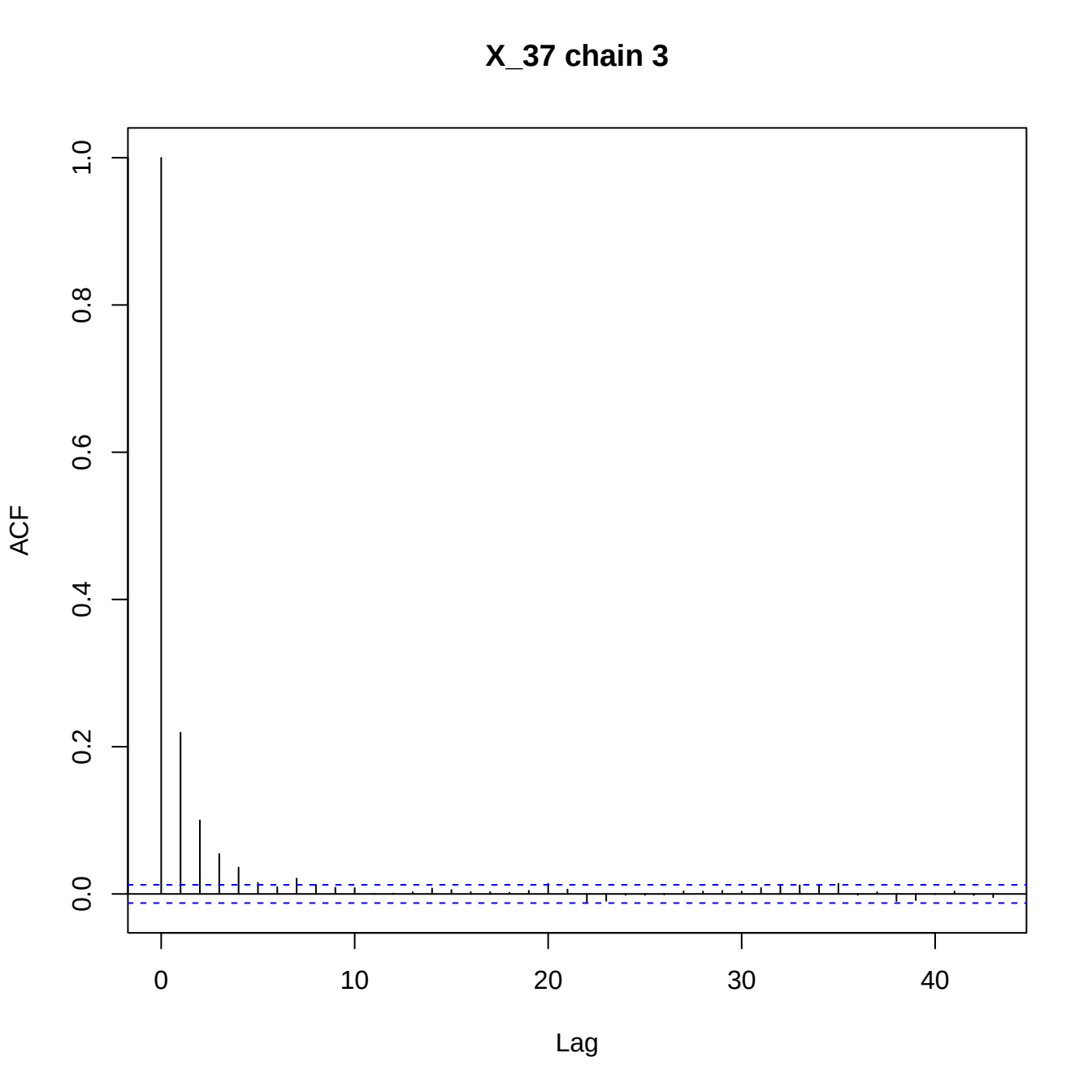
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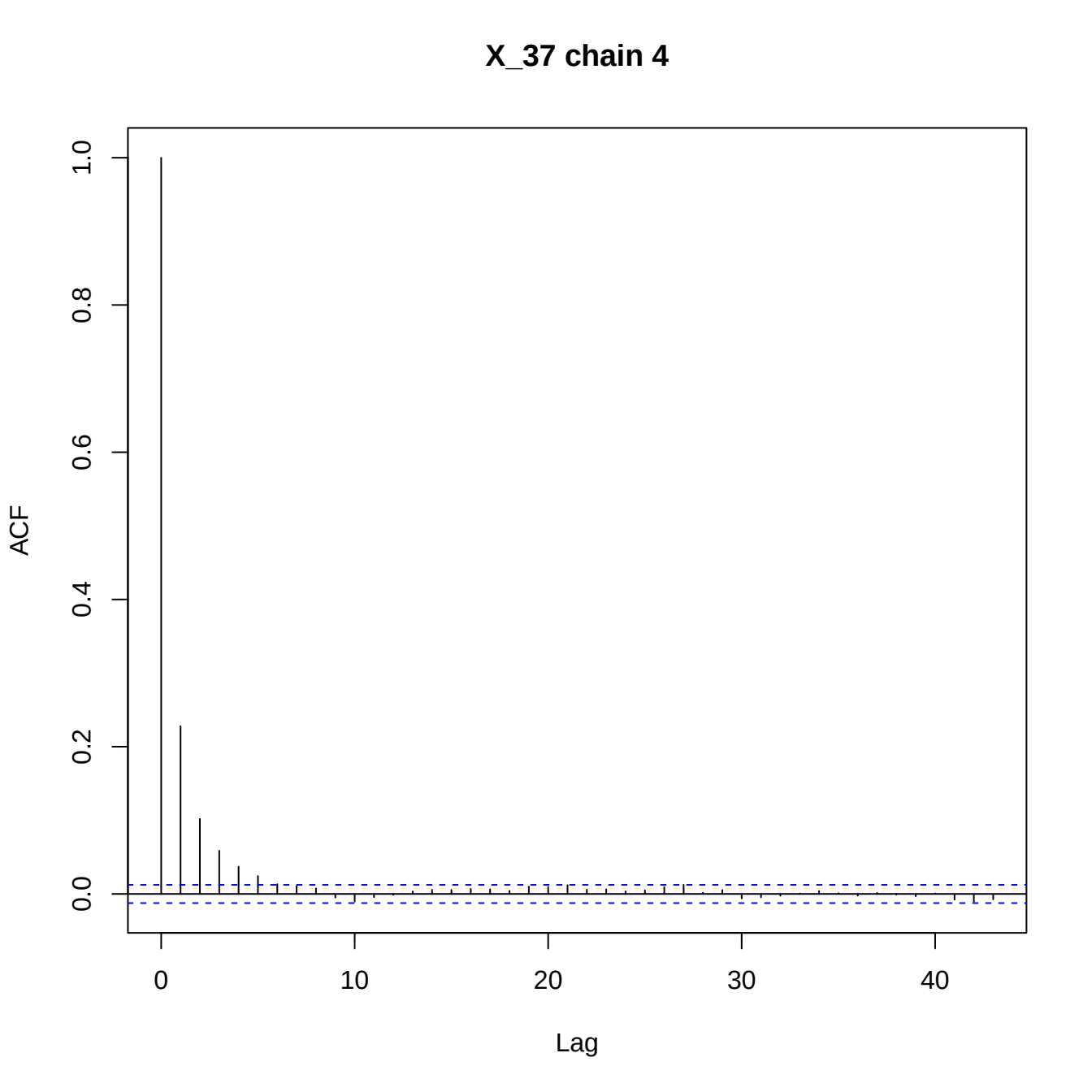
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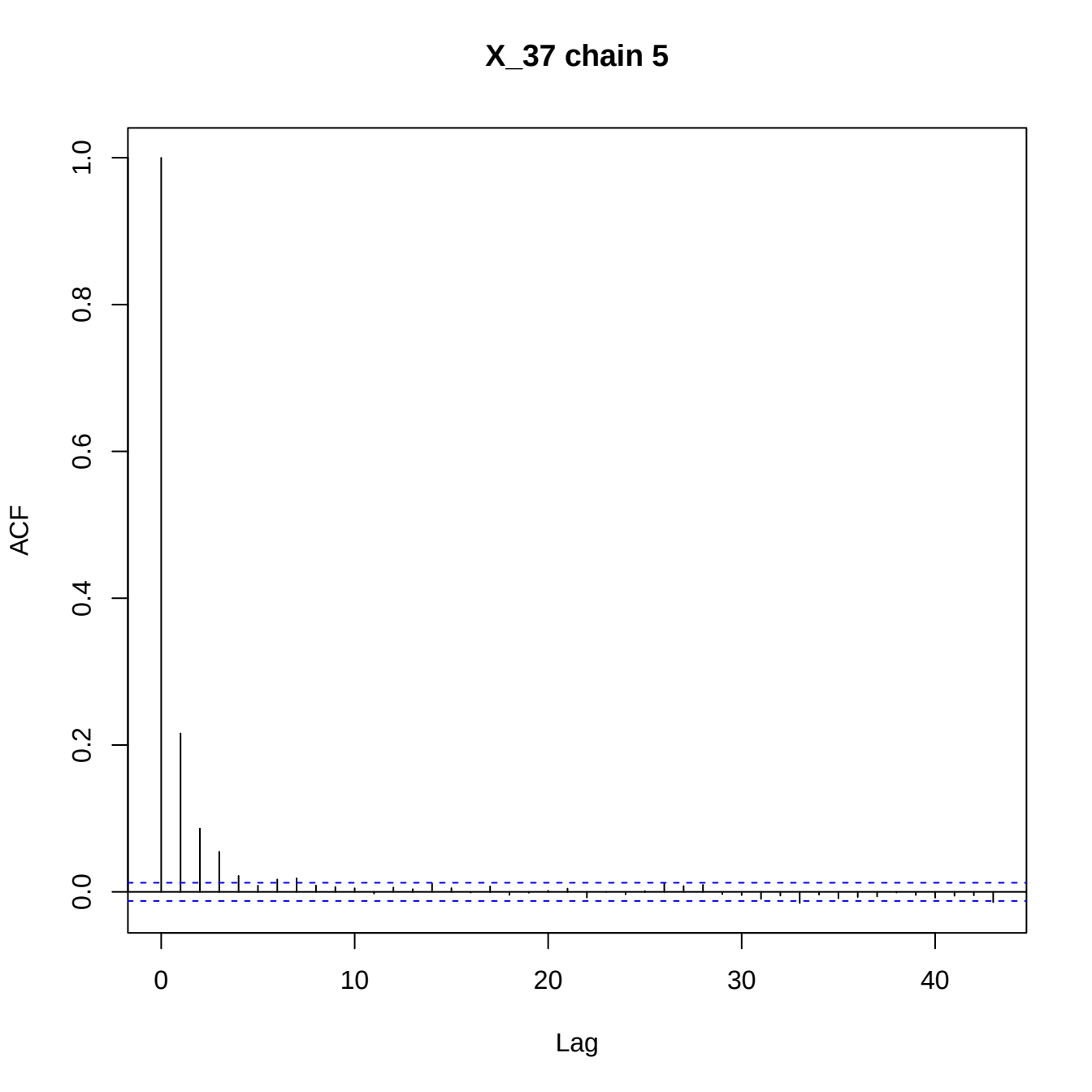
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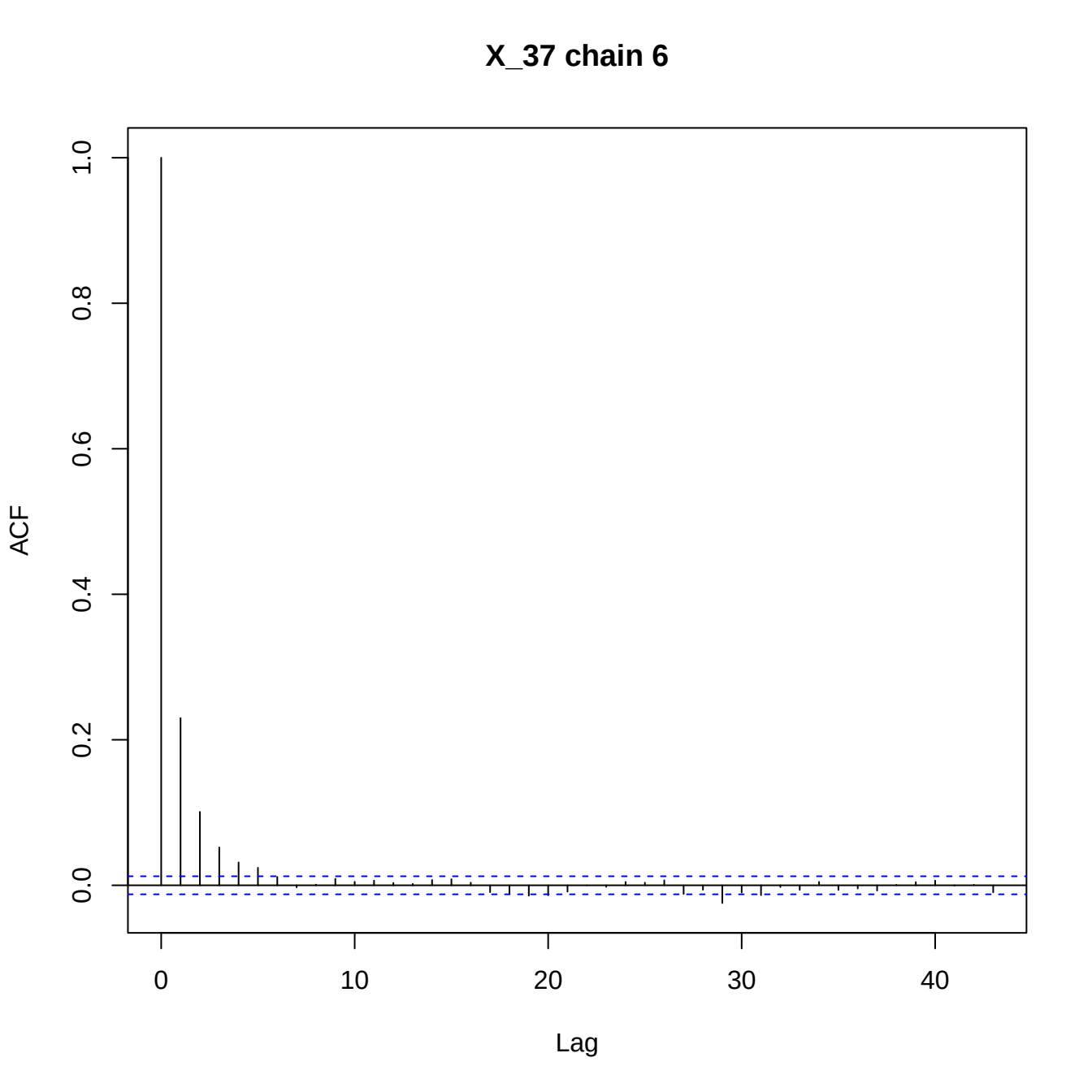
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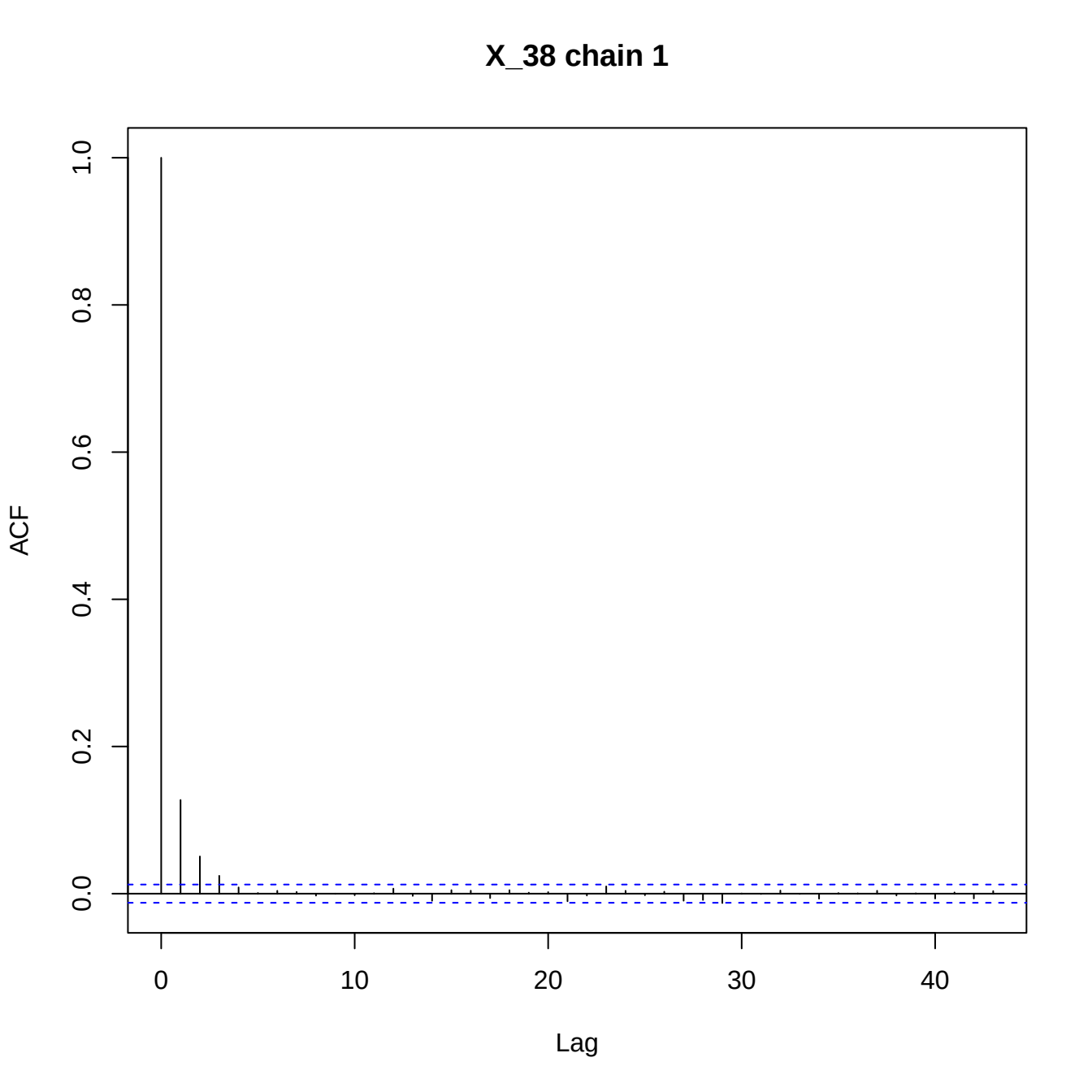
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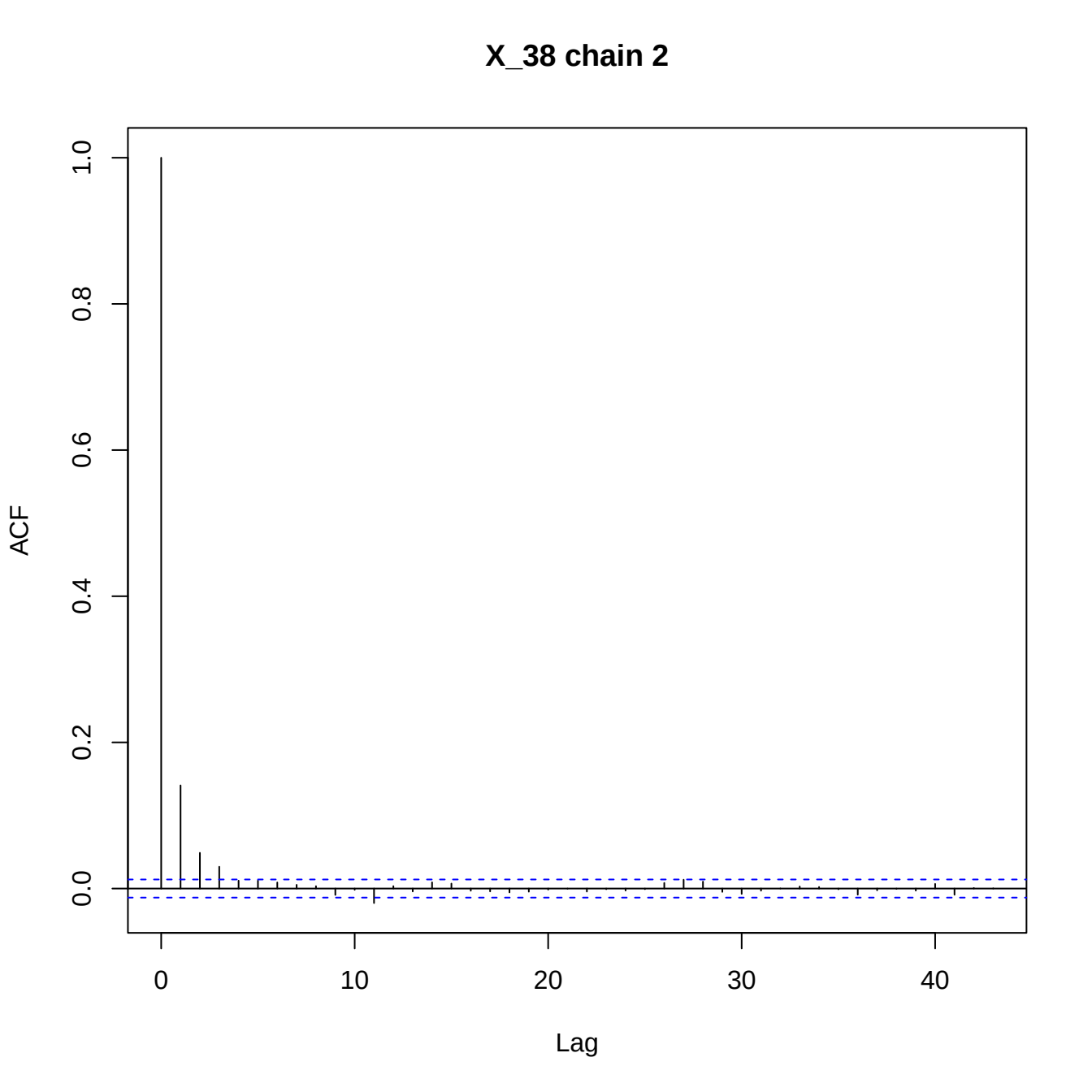
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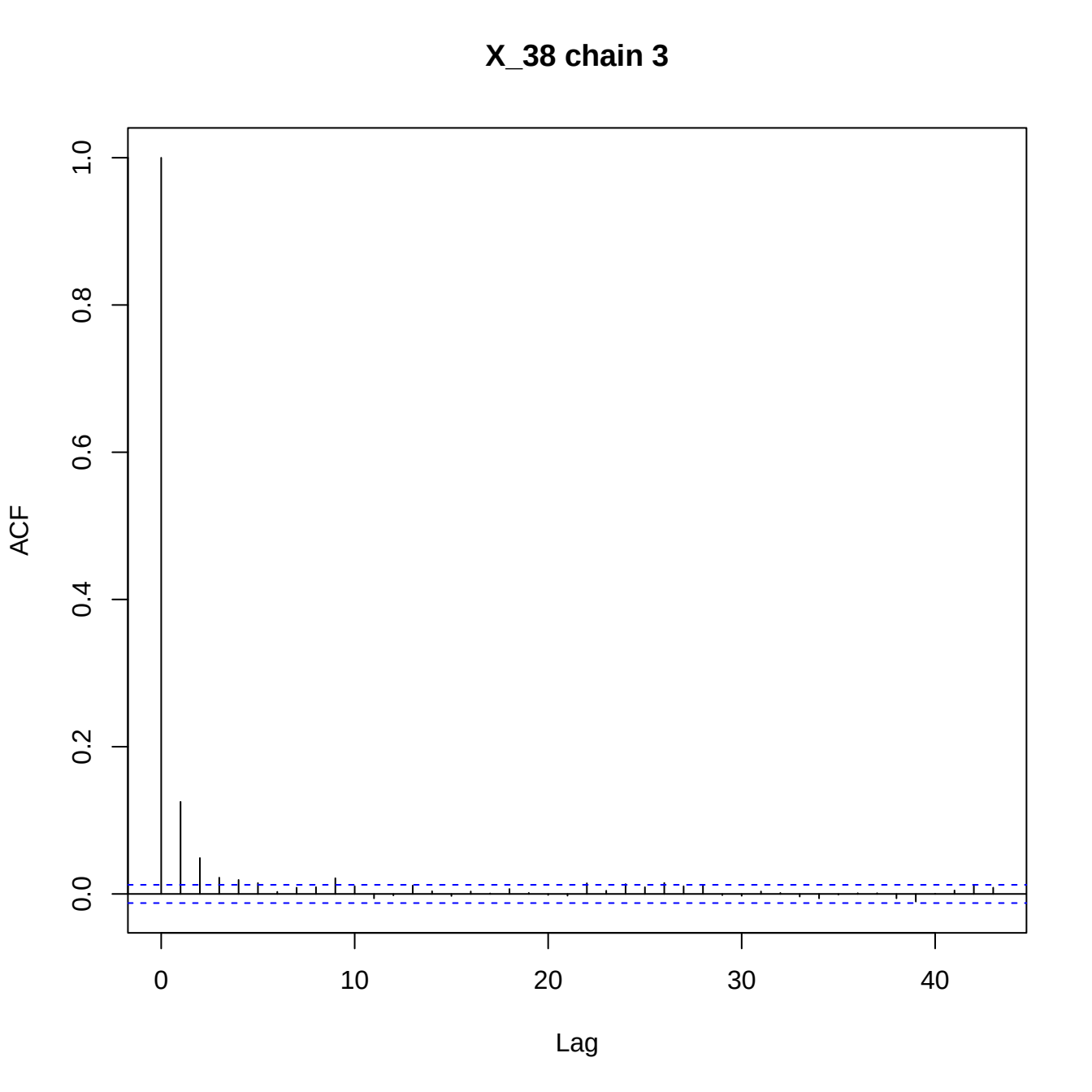
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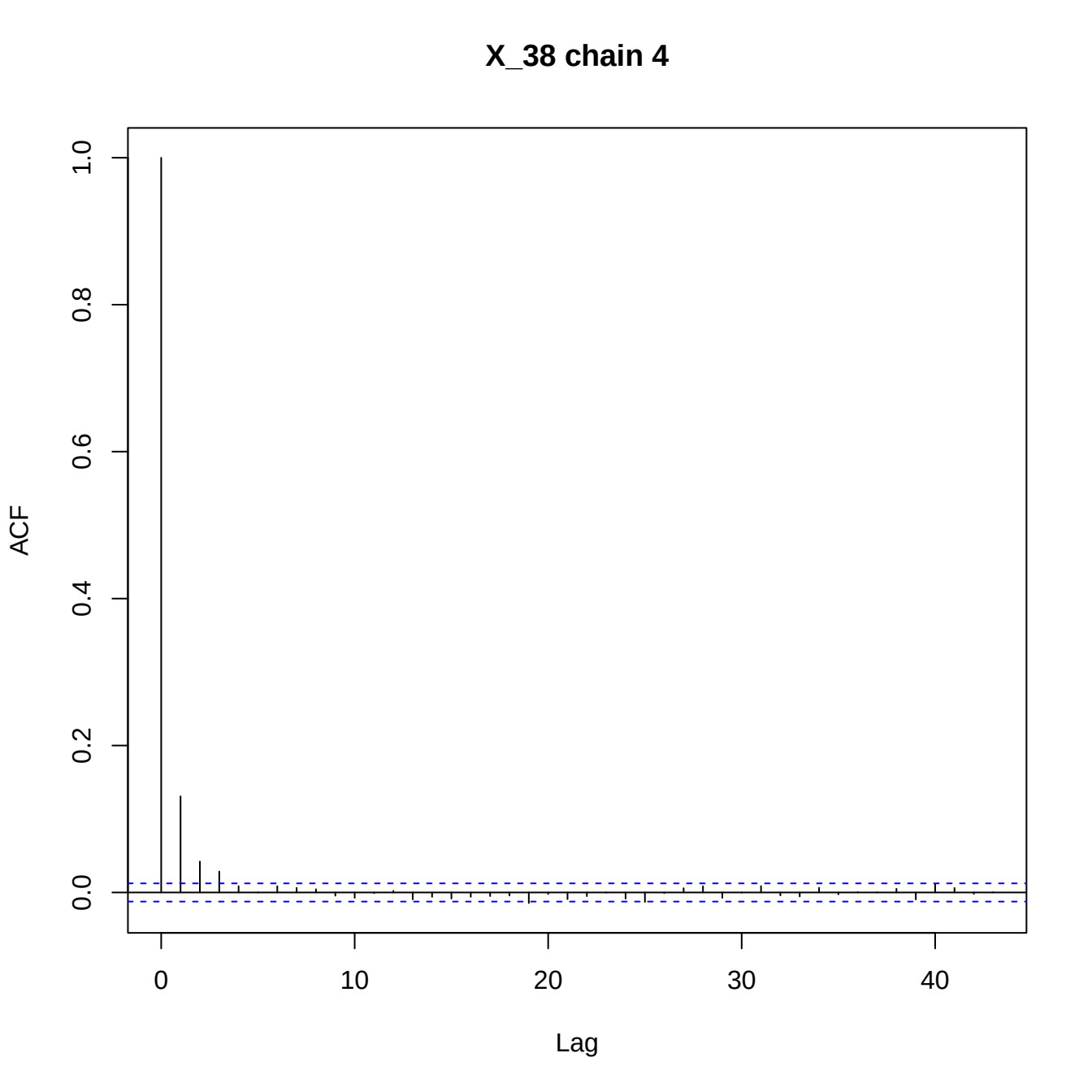
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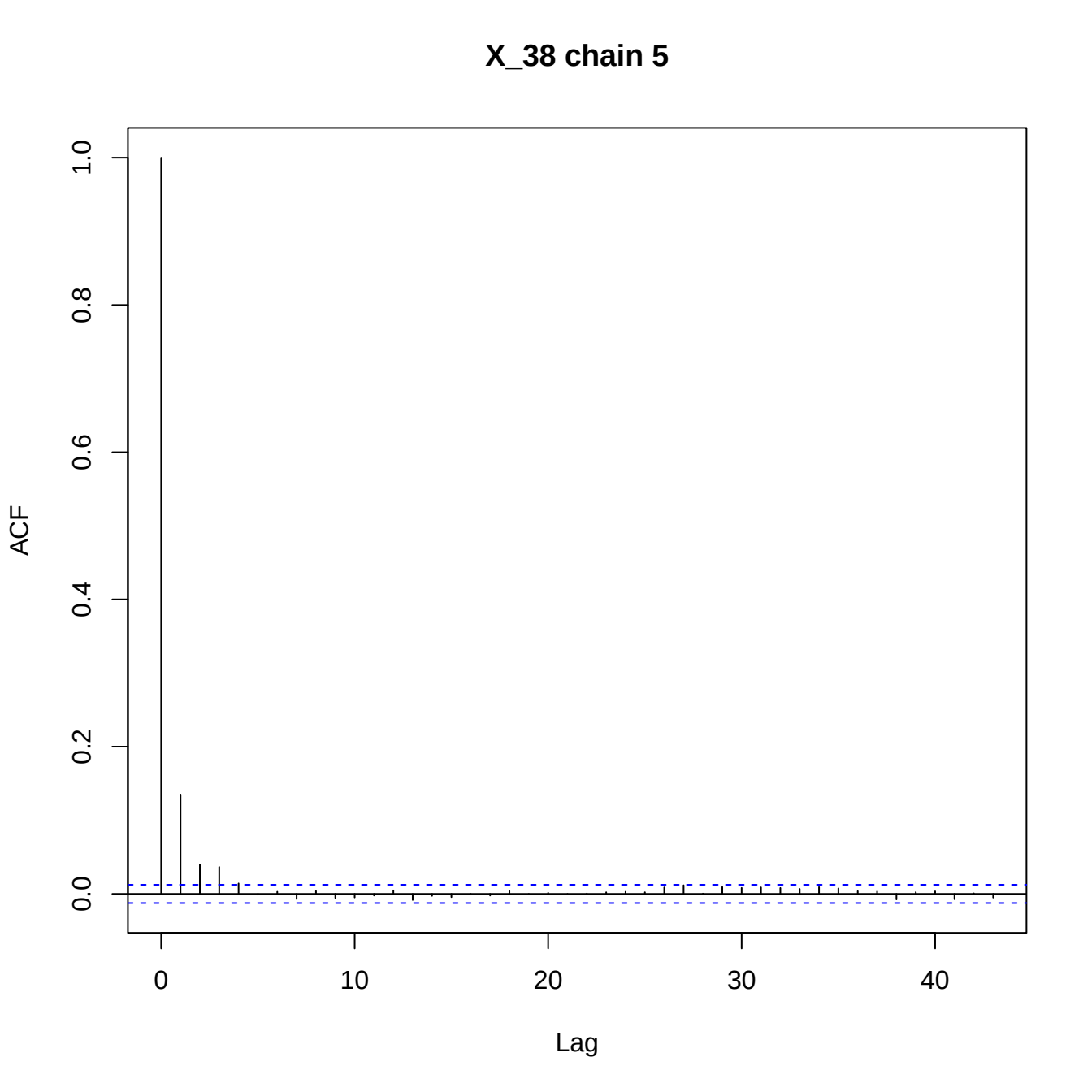
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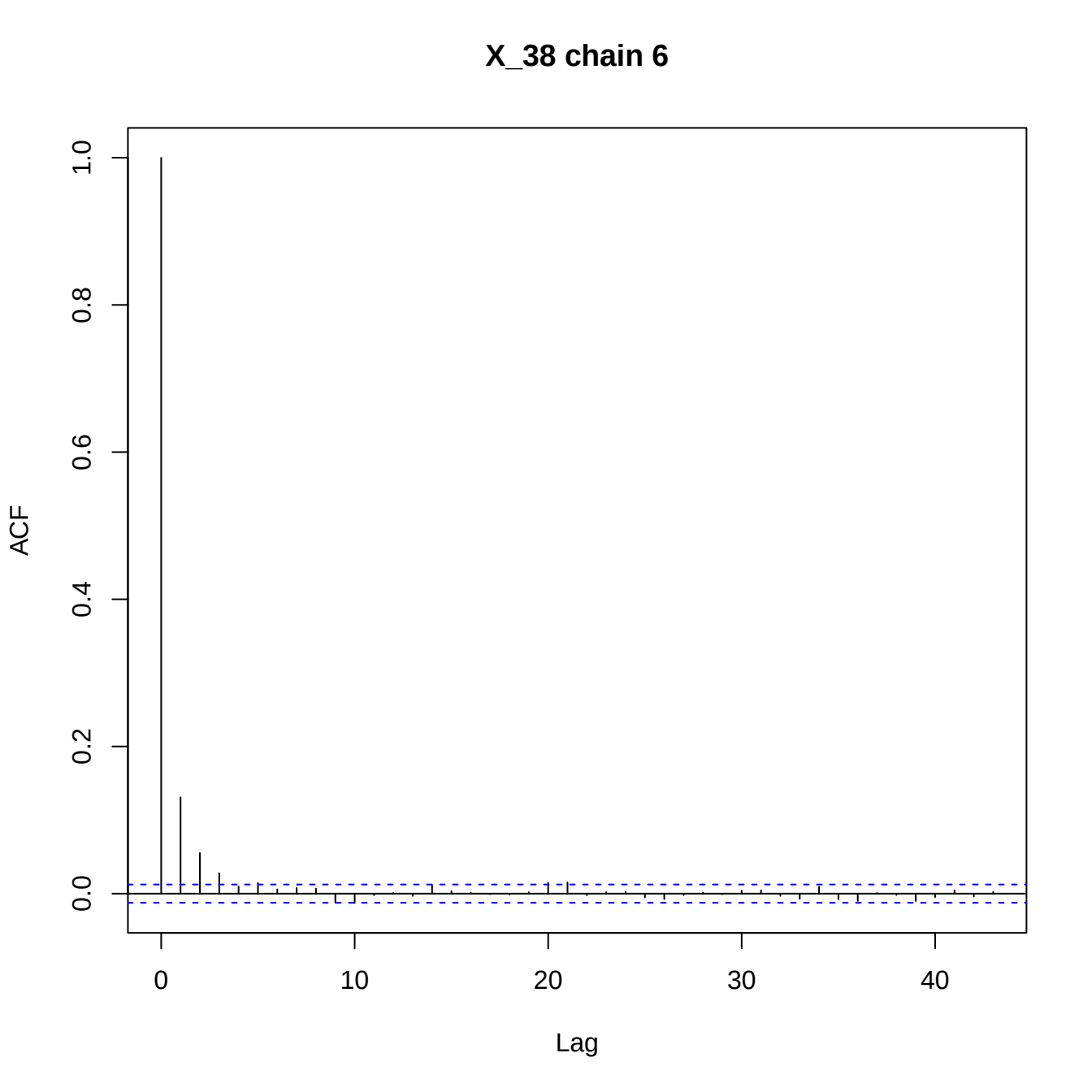
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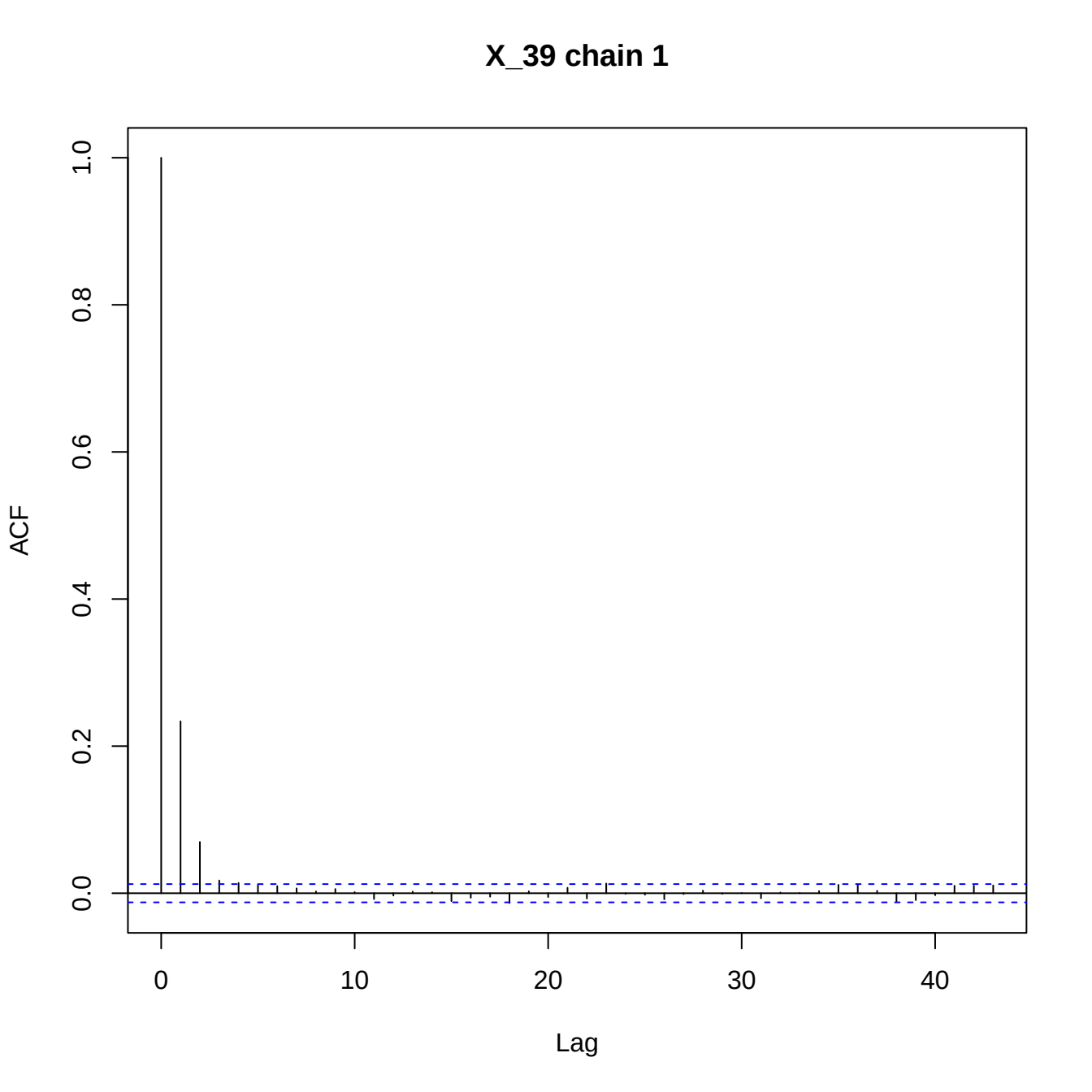
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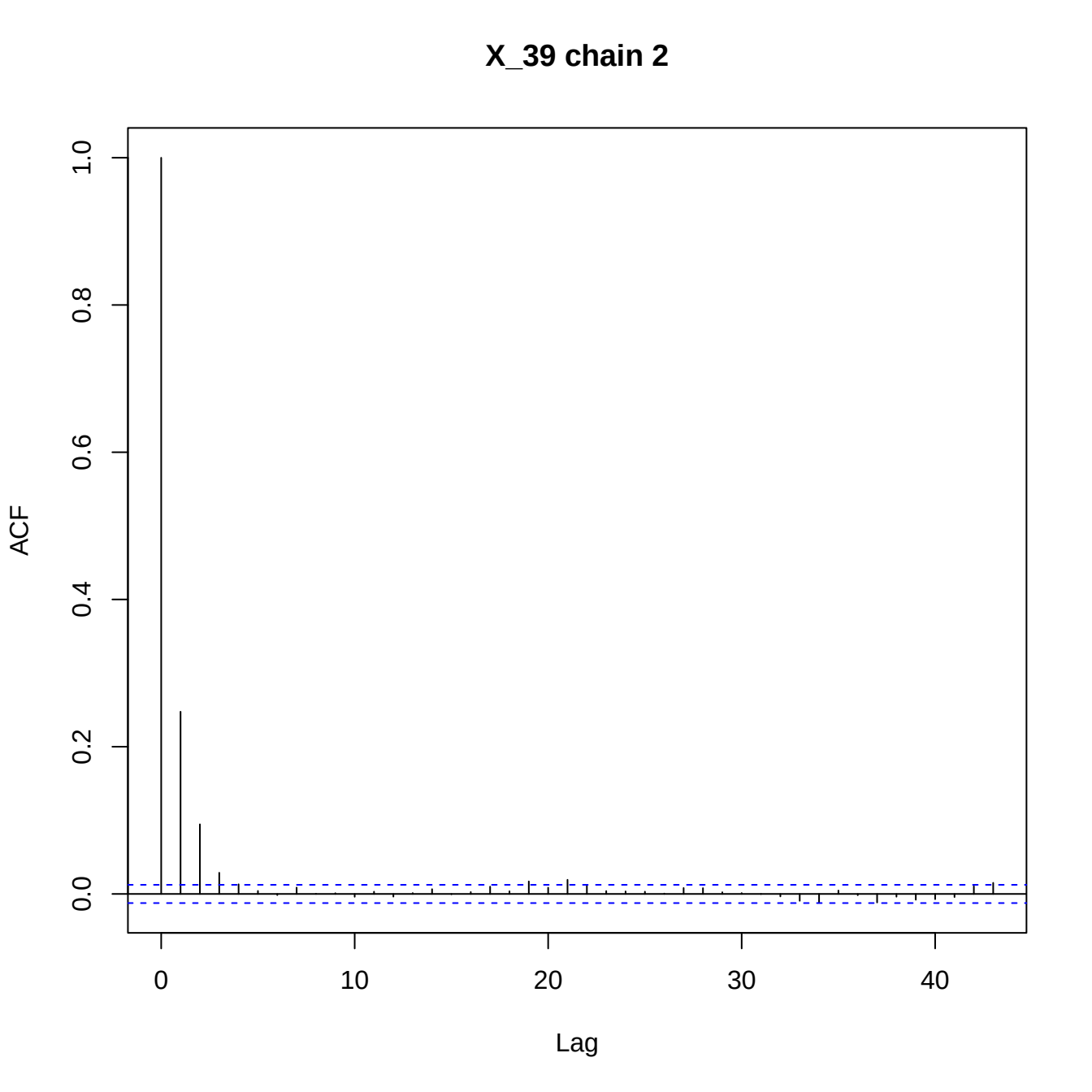
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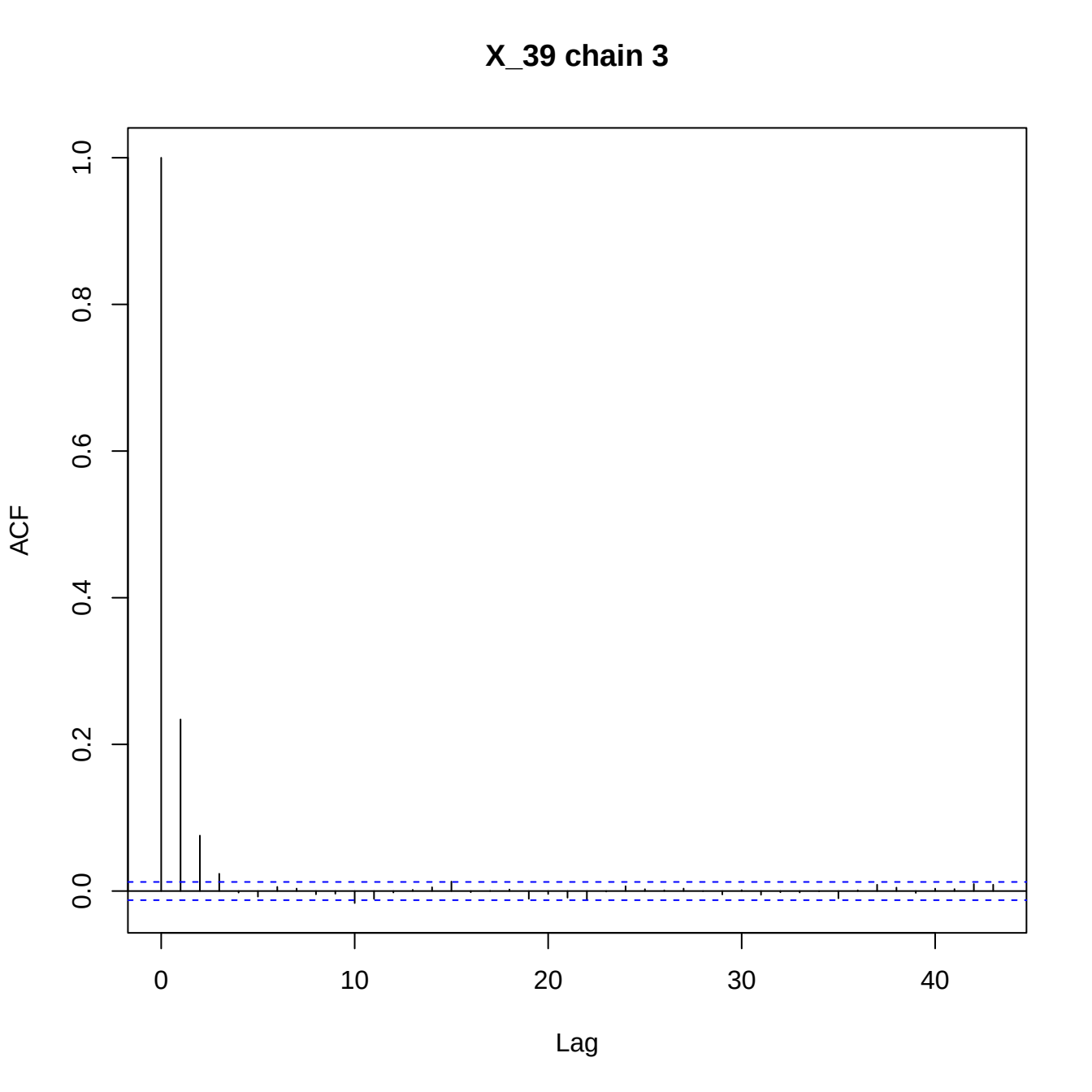
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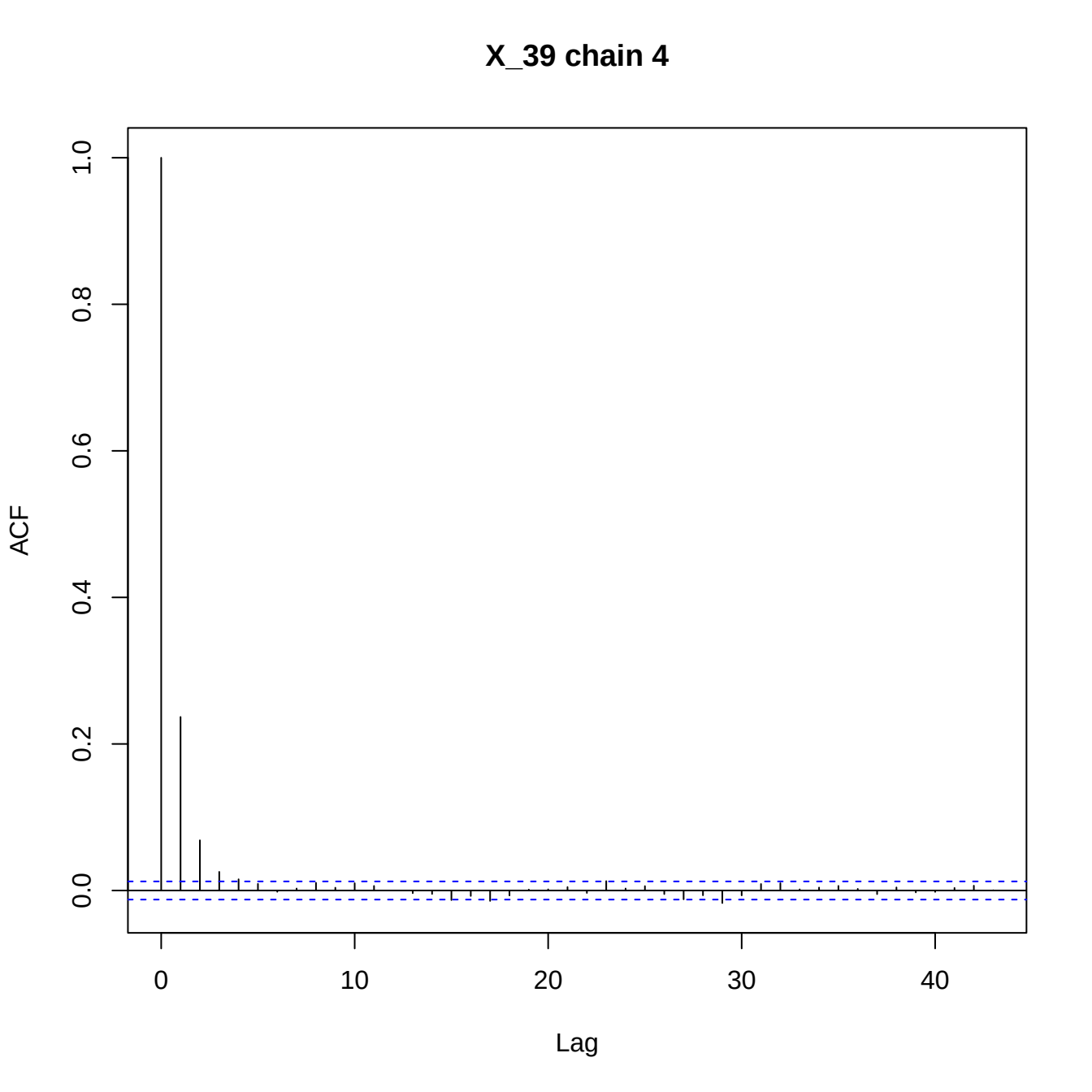
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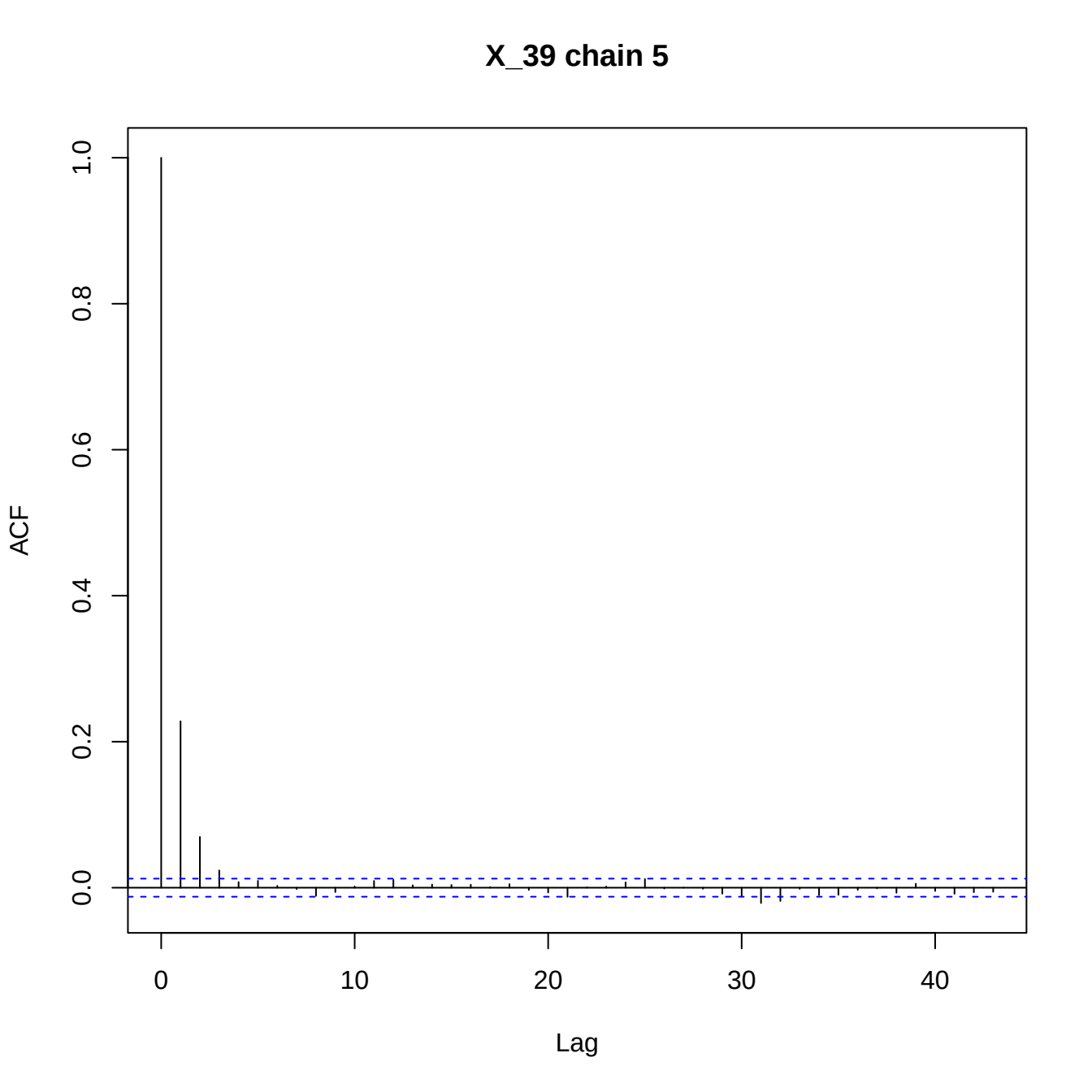
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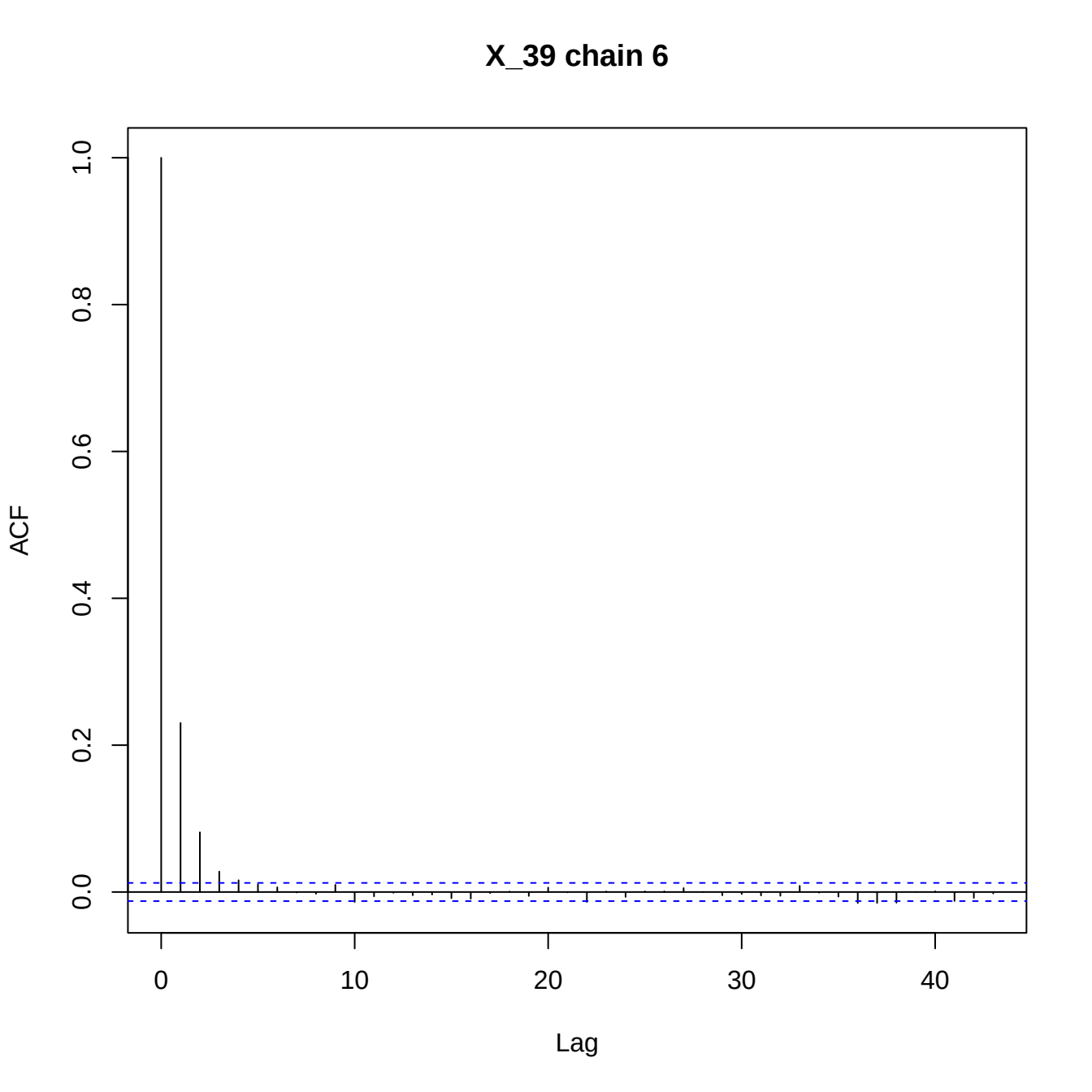
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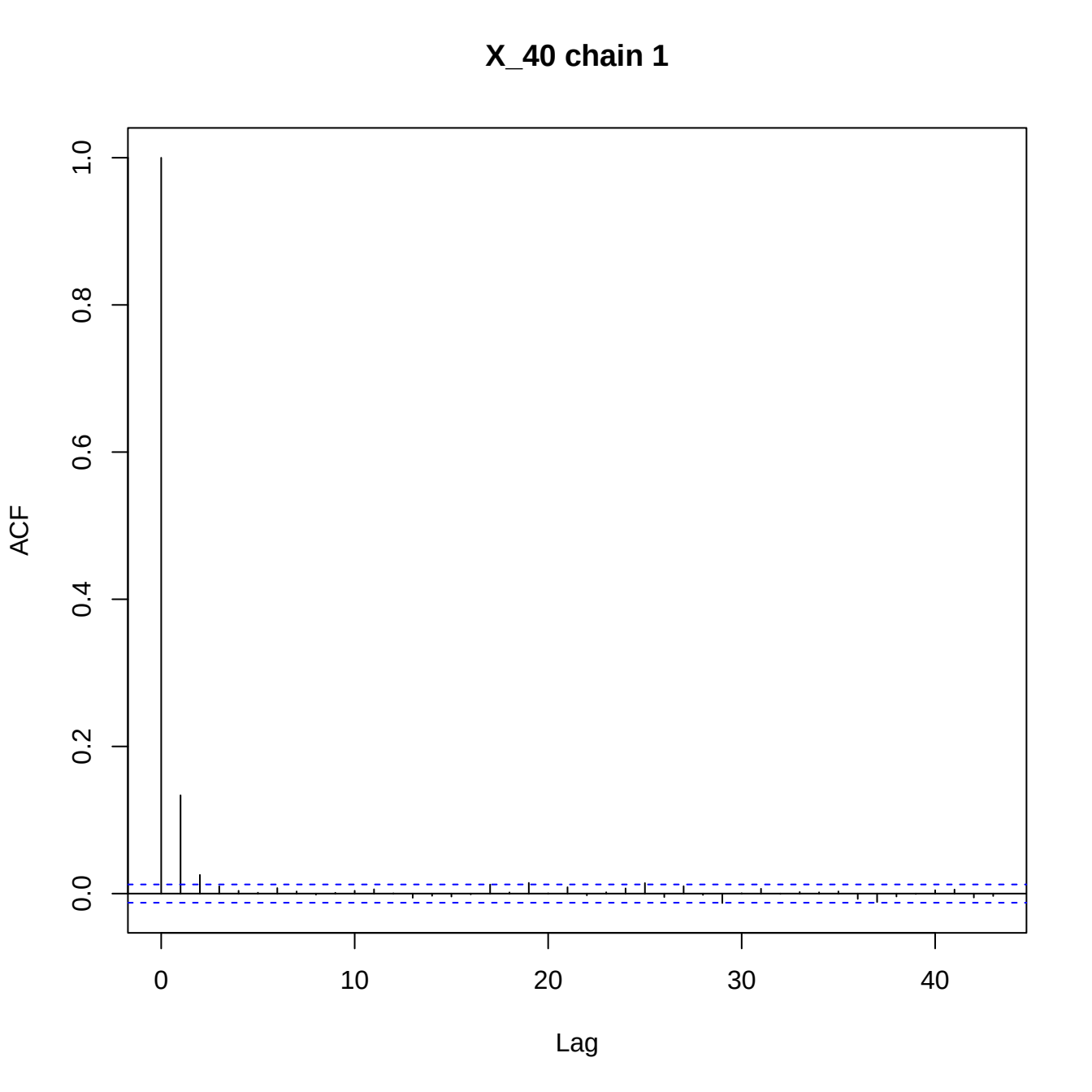
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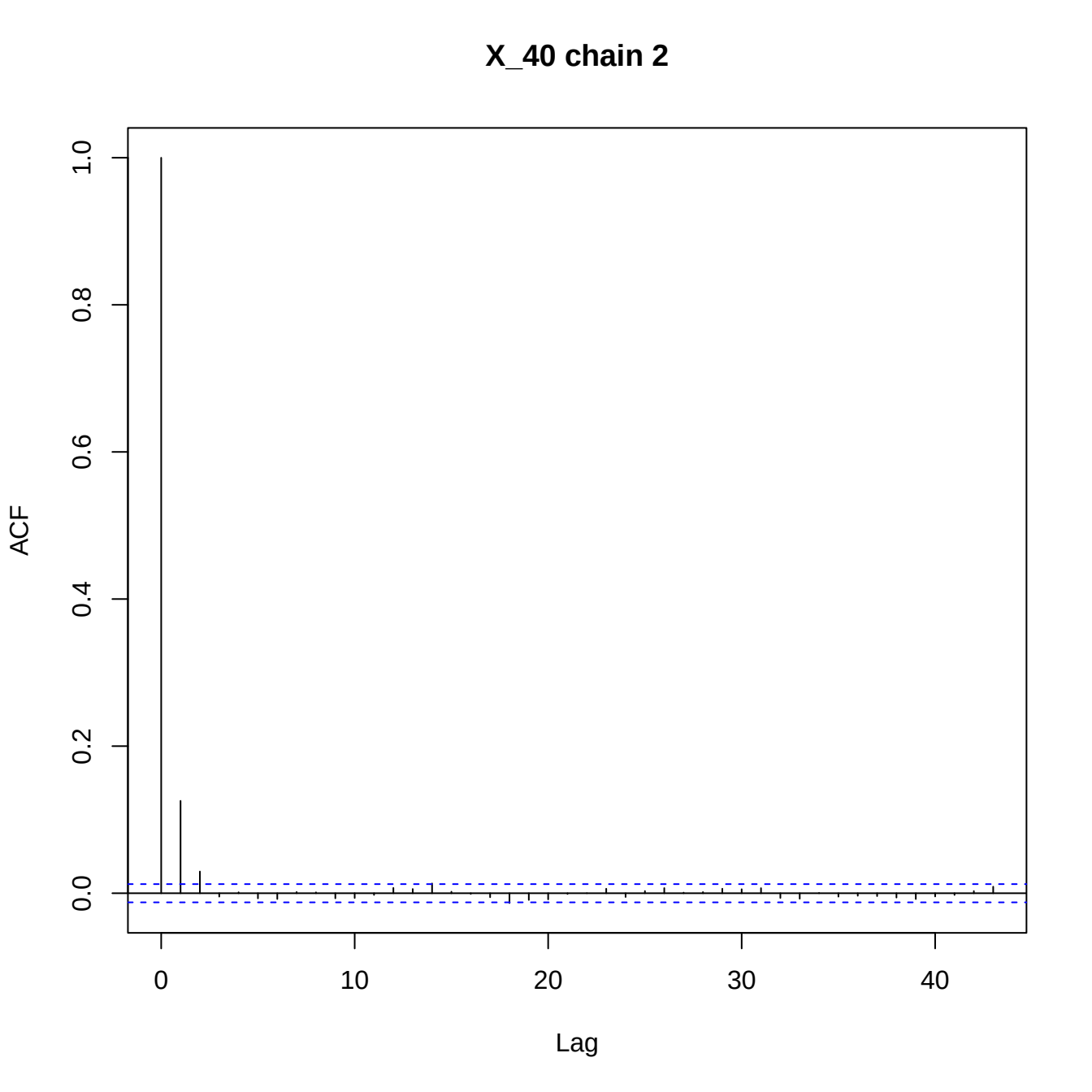
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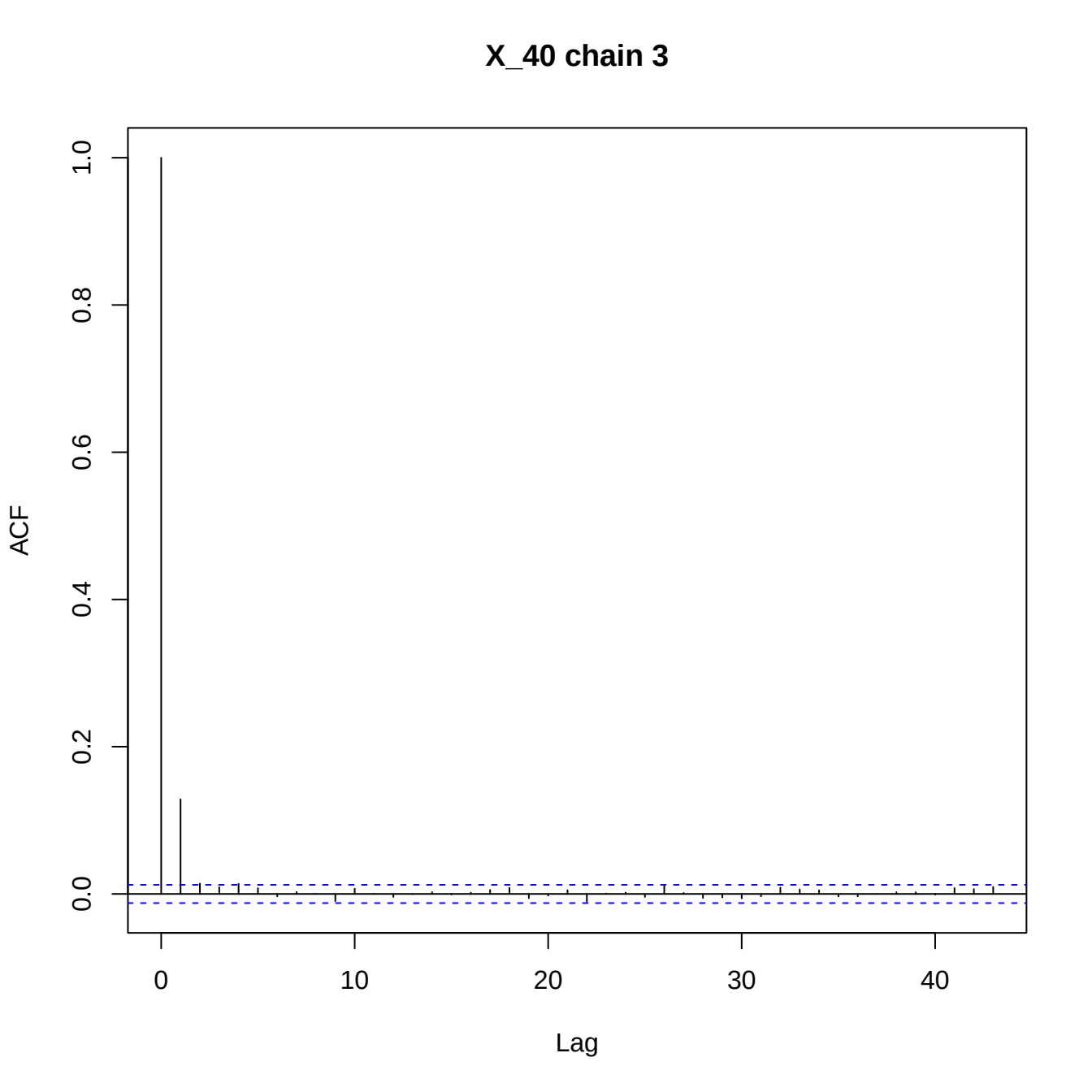
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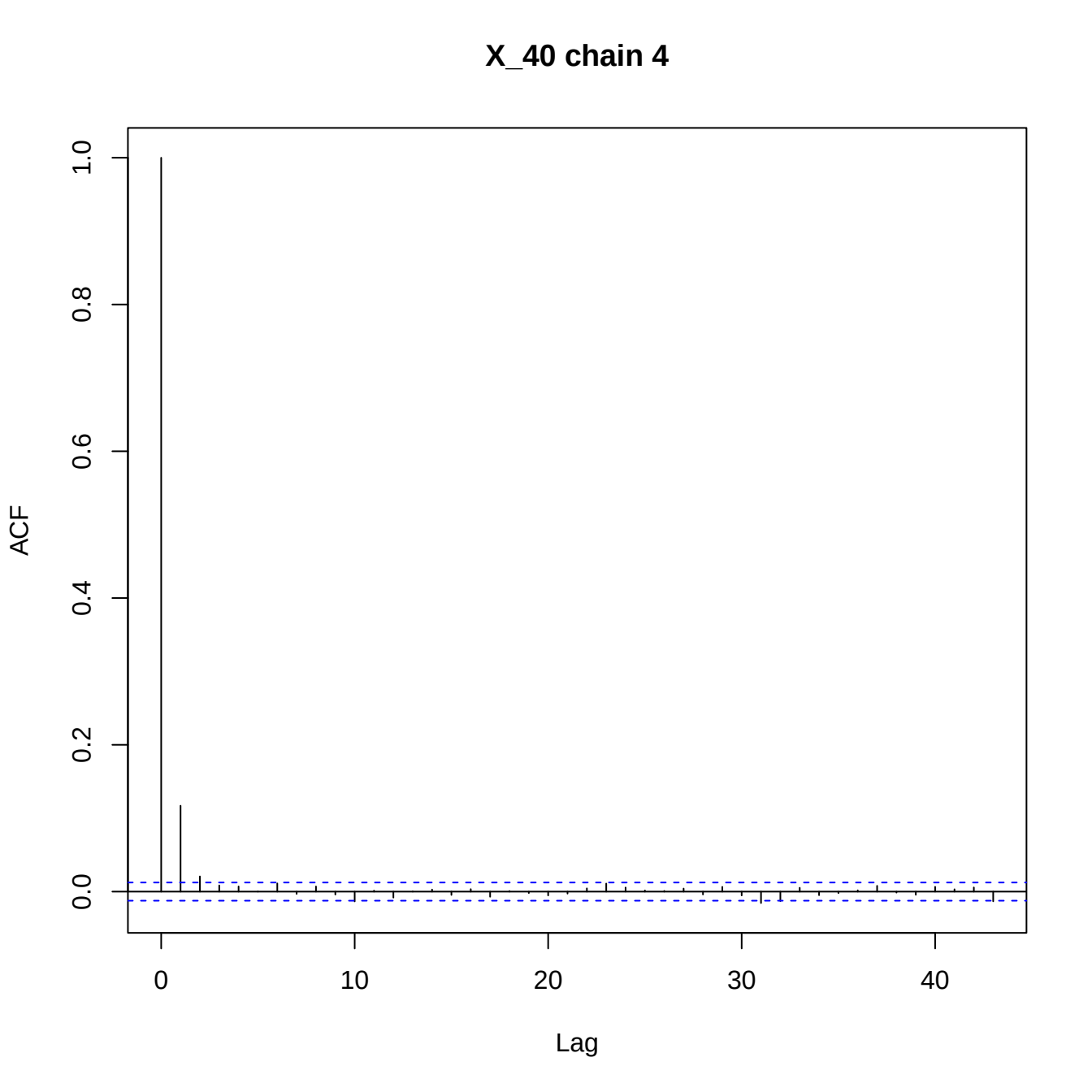
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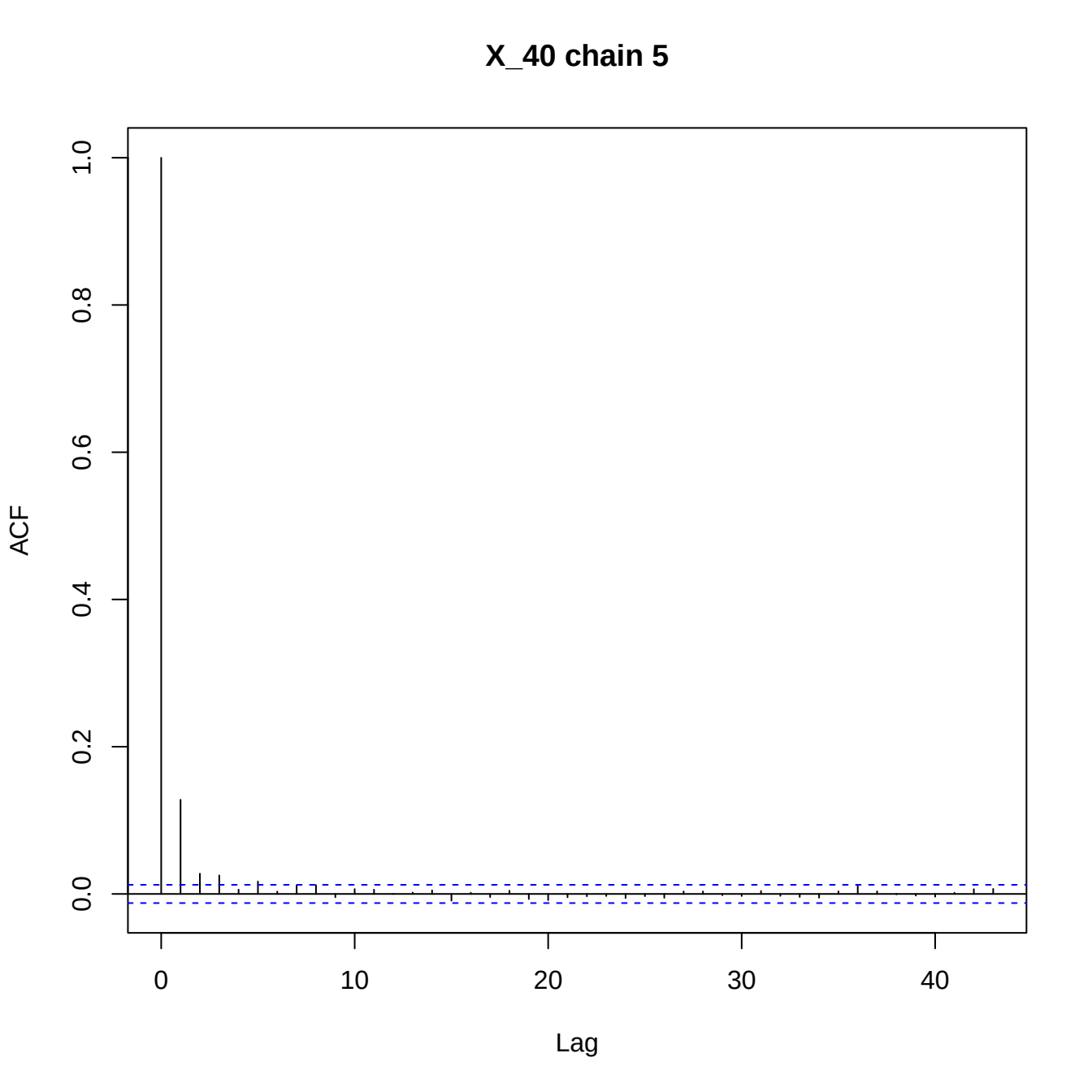
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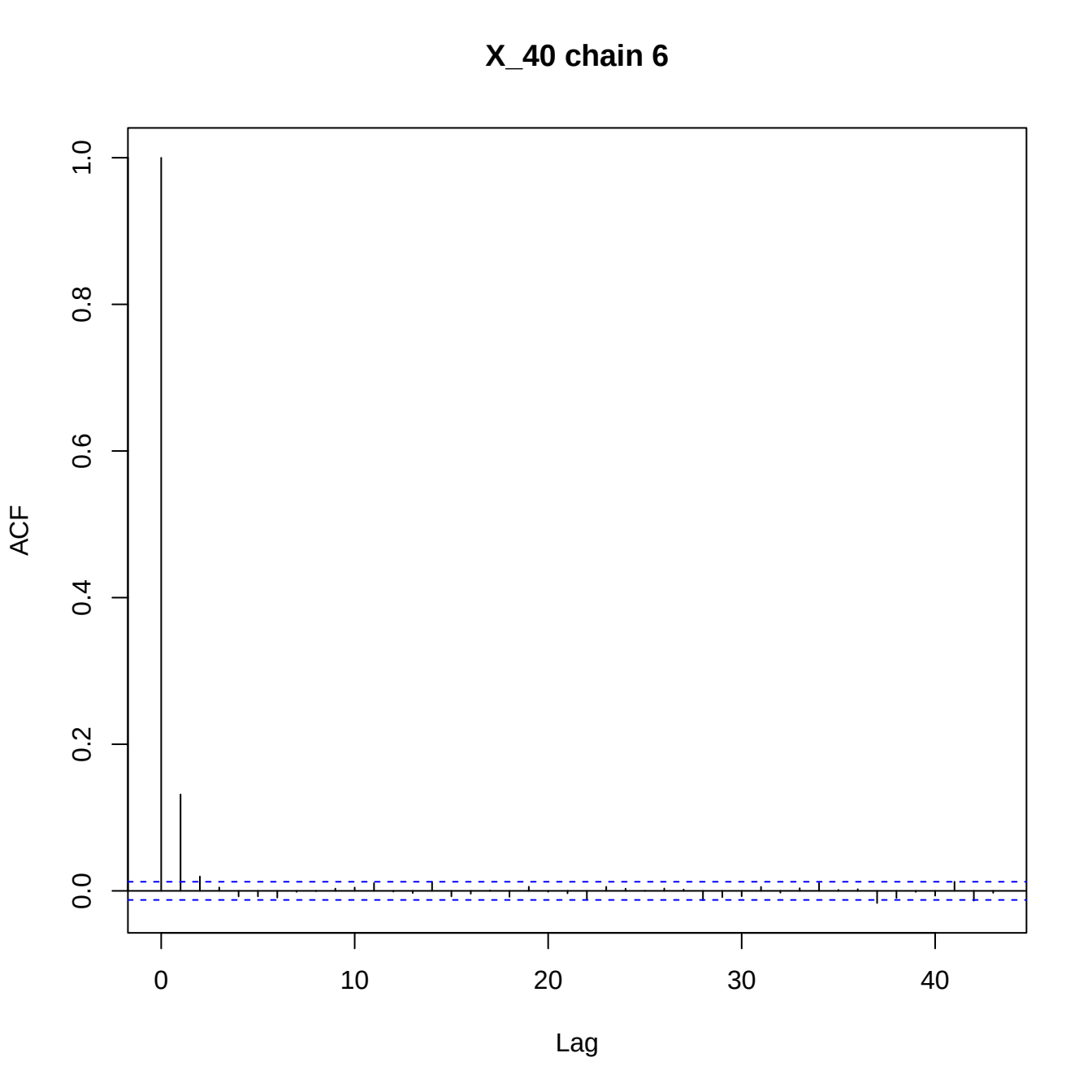
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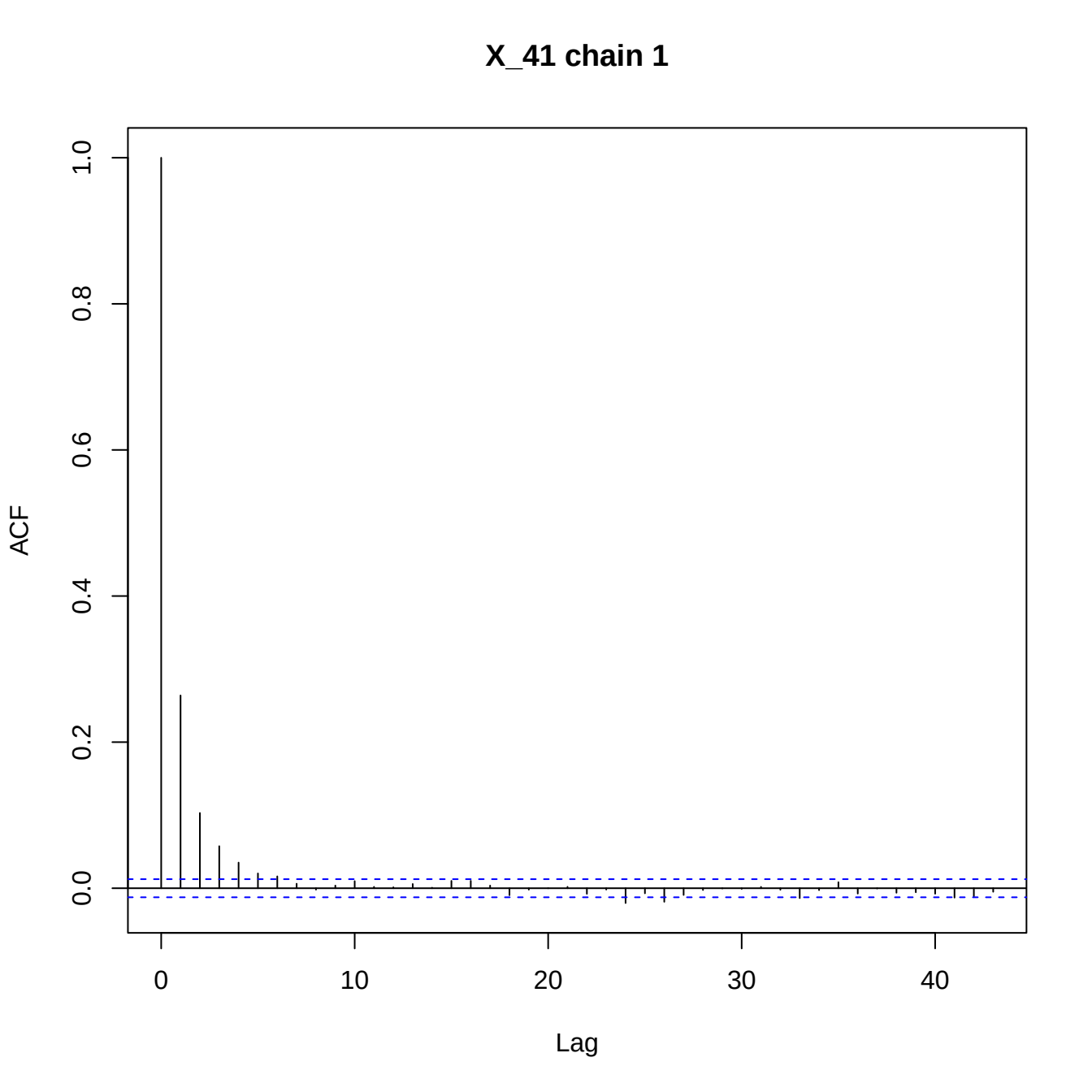
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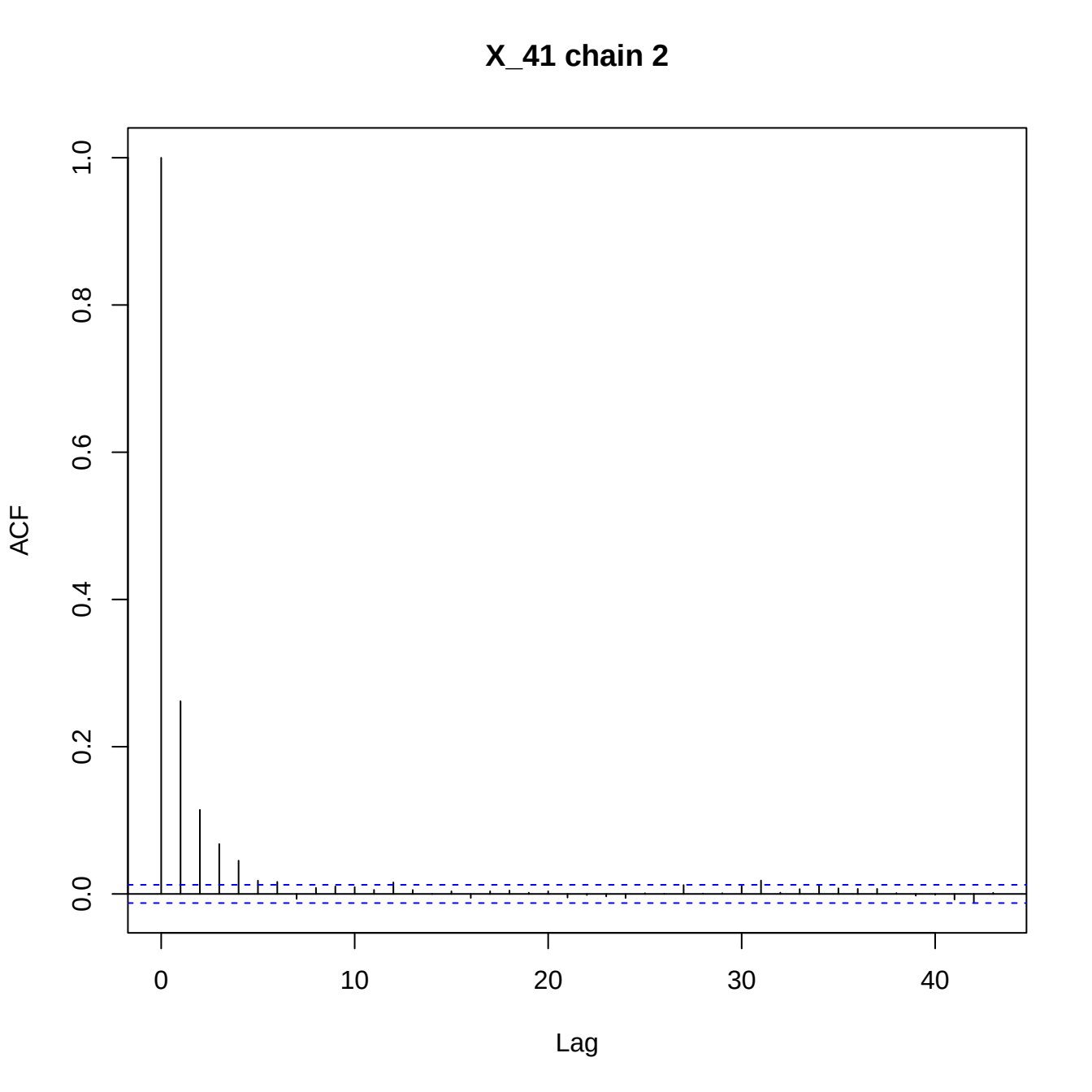
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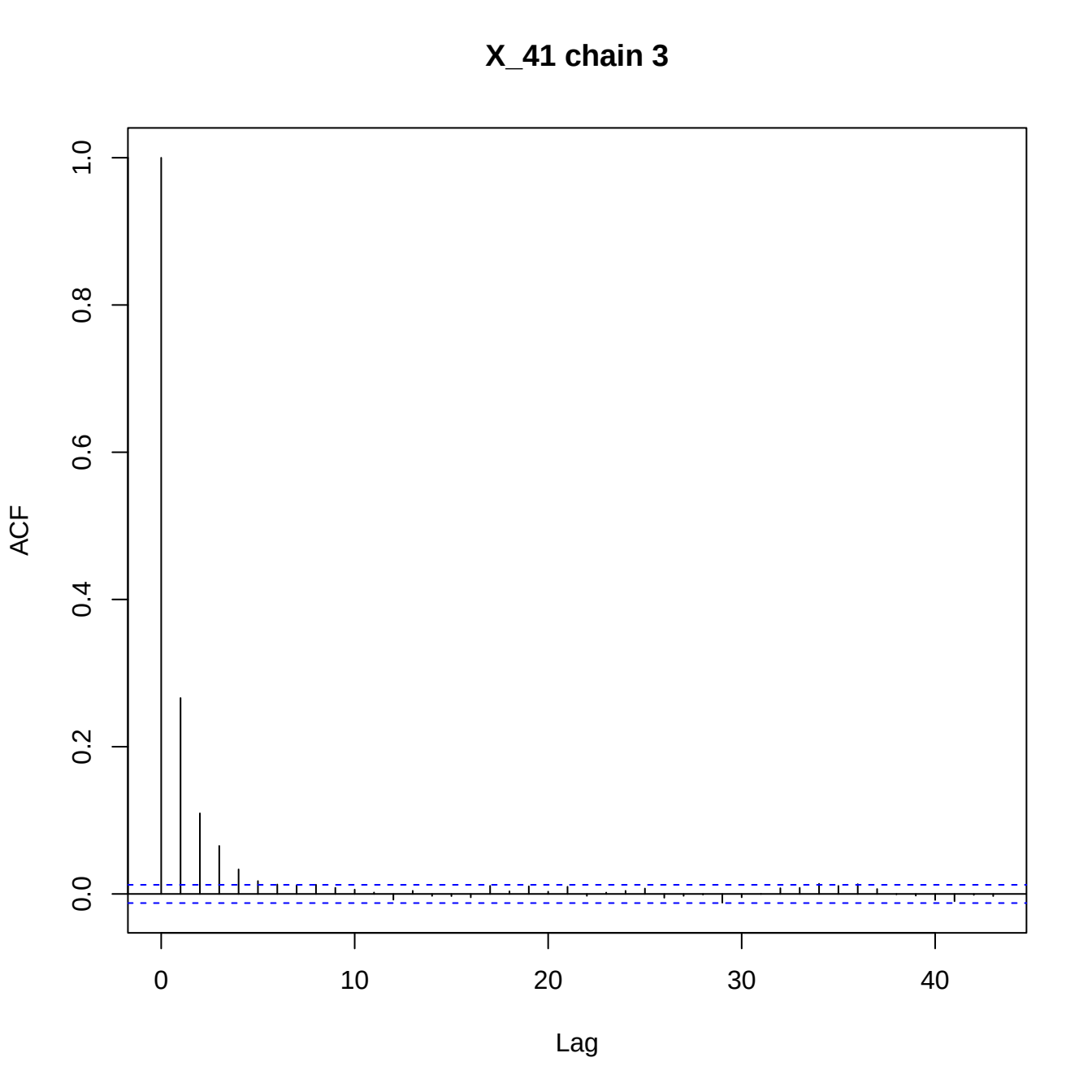
Lag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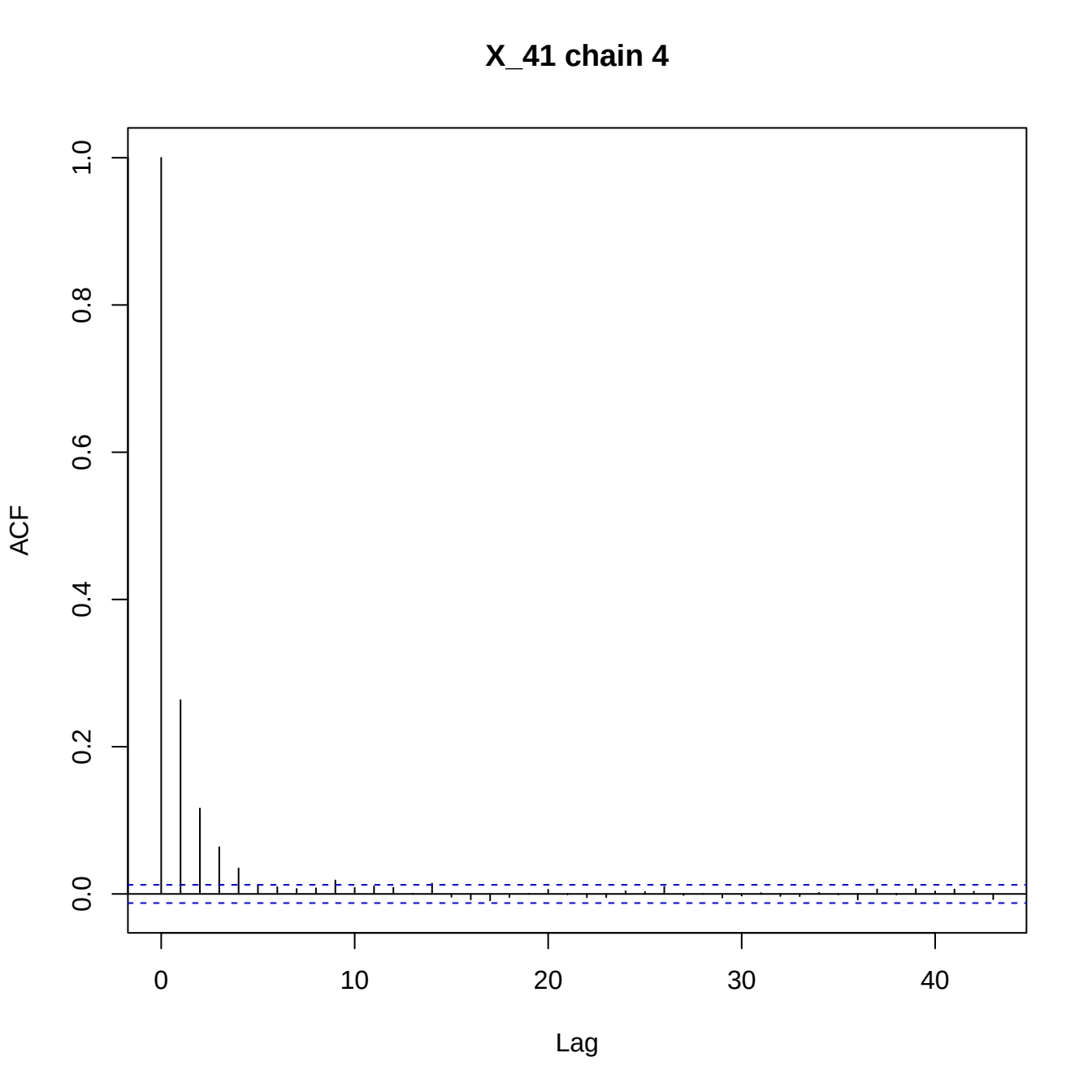
Lag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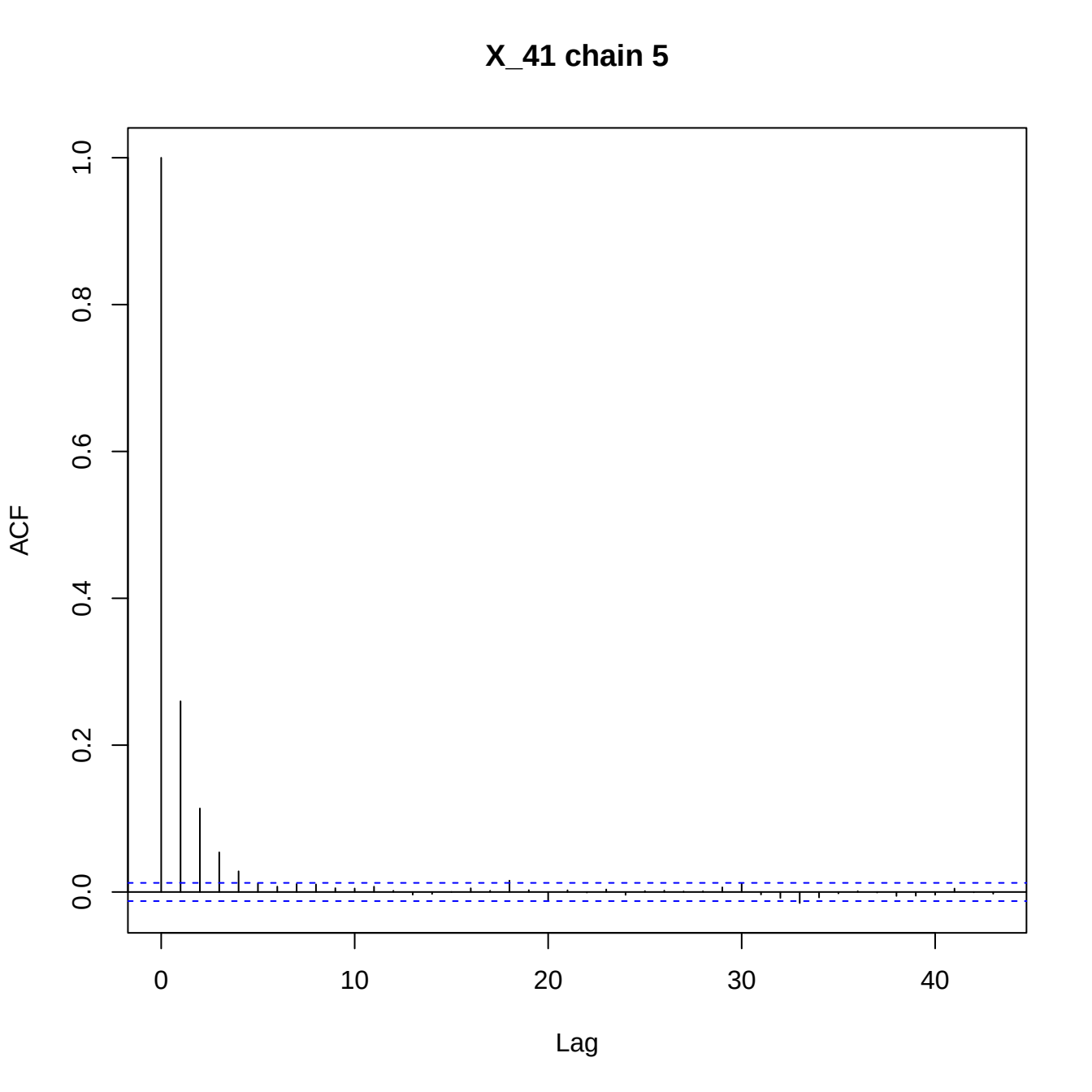
Lag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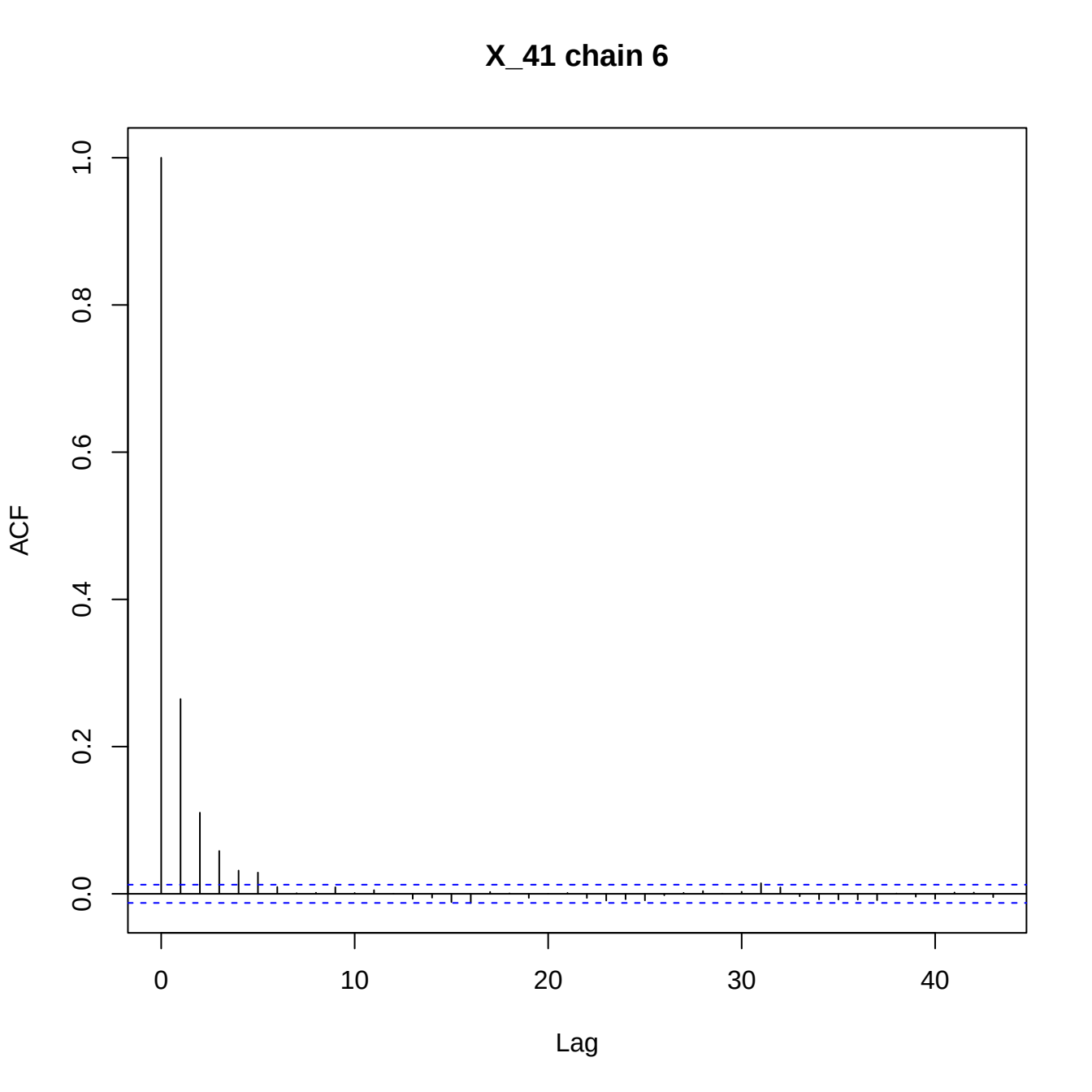
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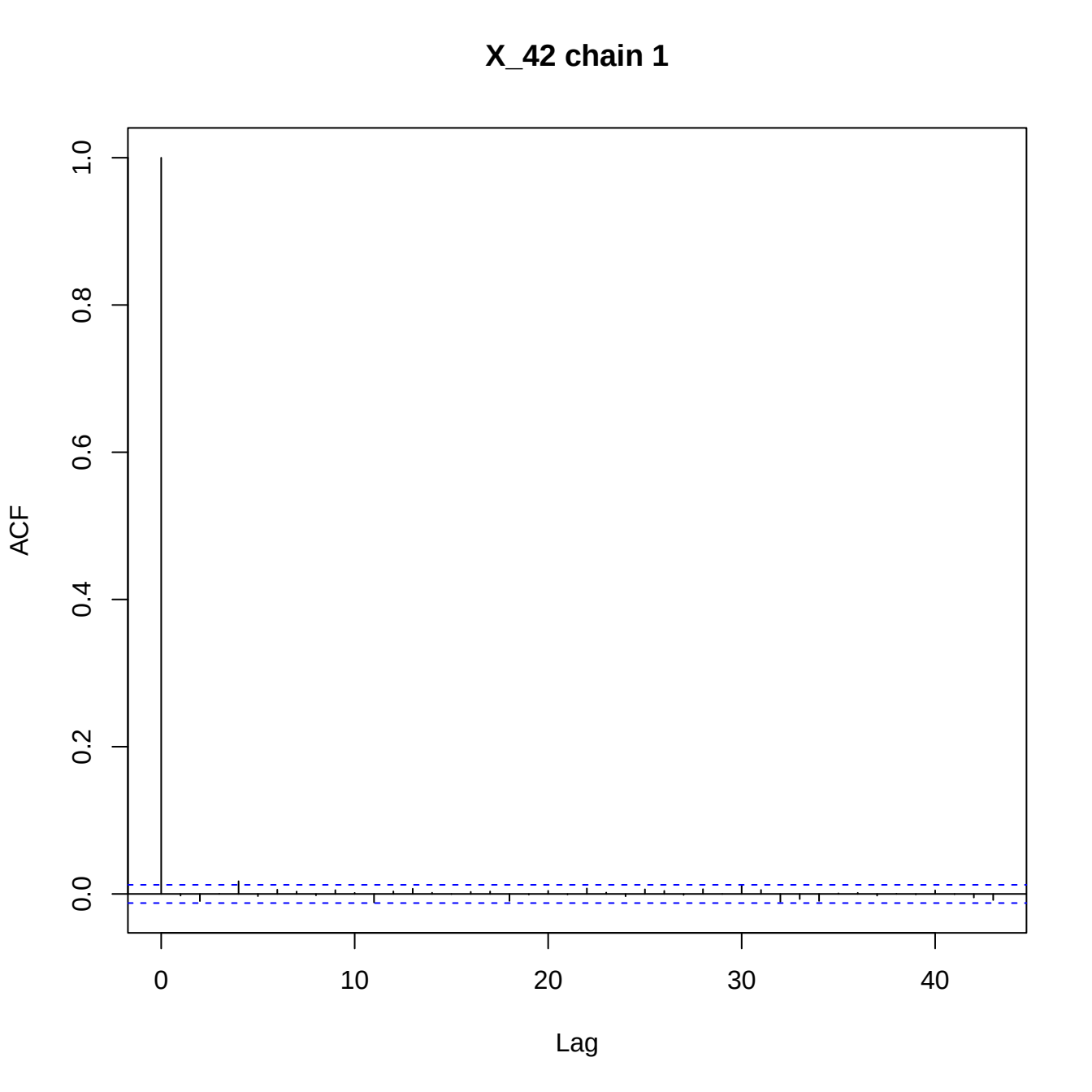
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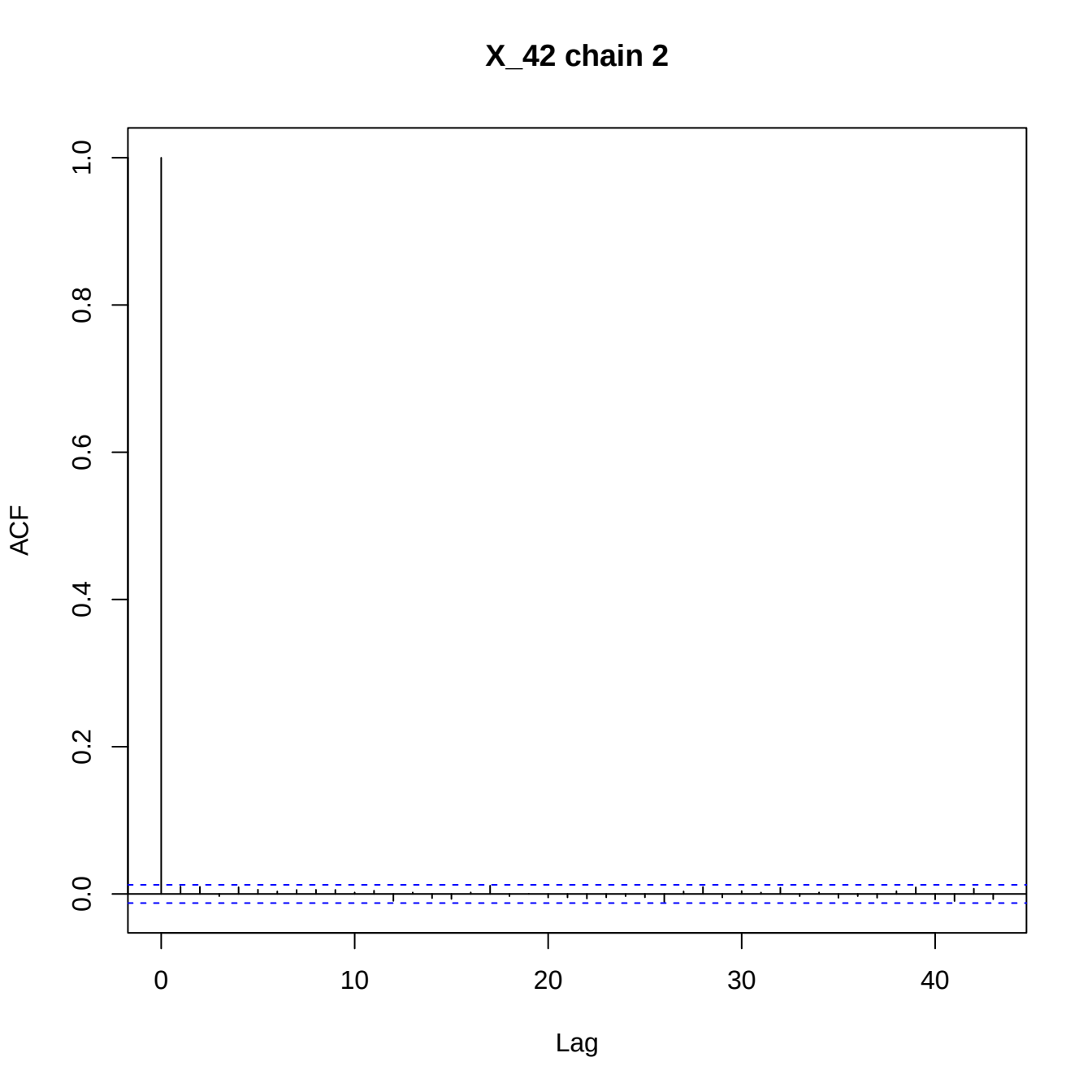
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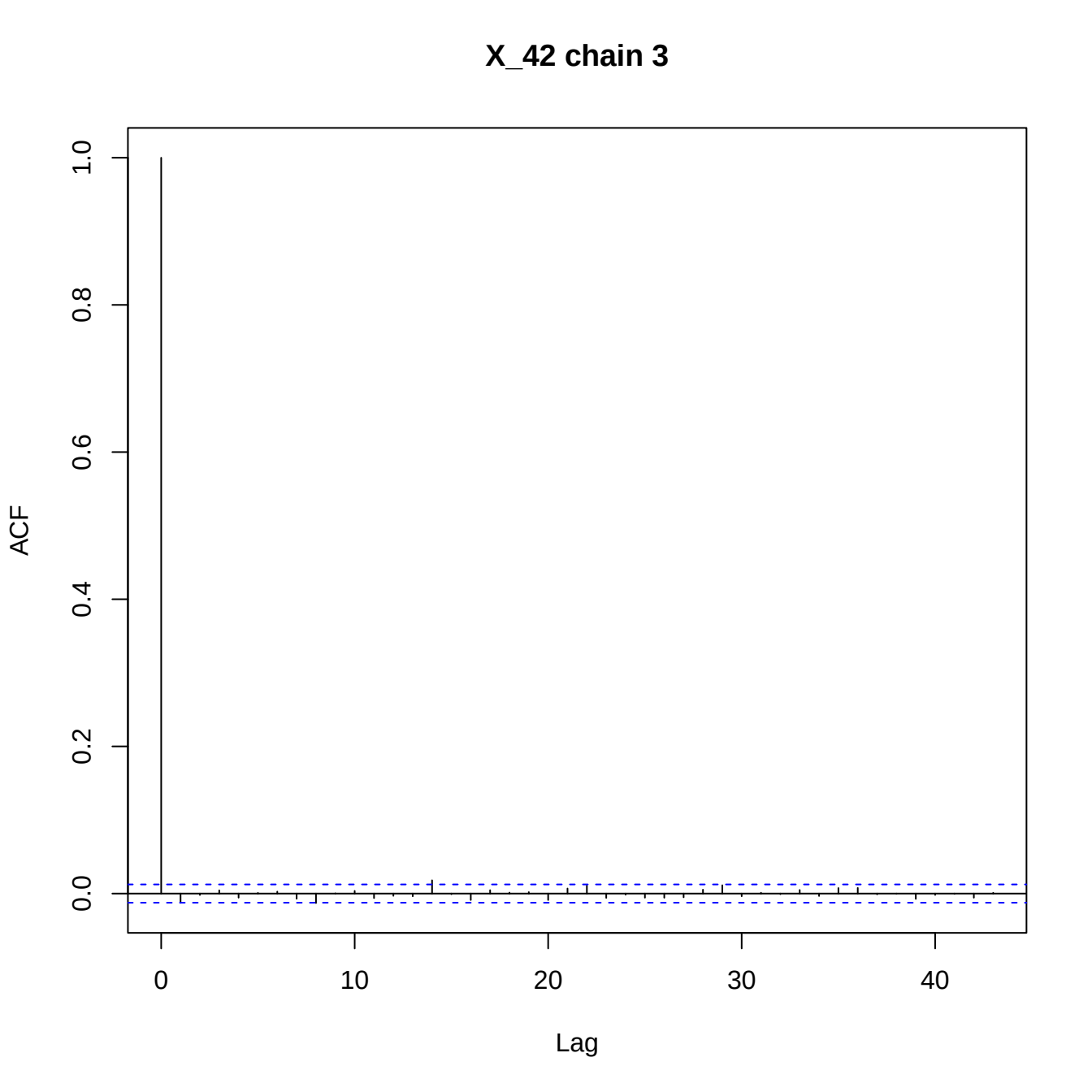
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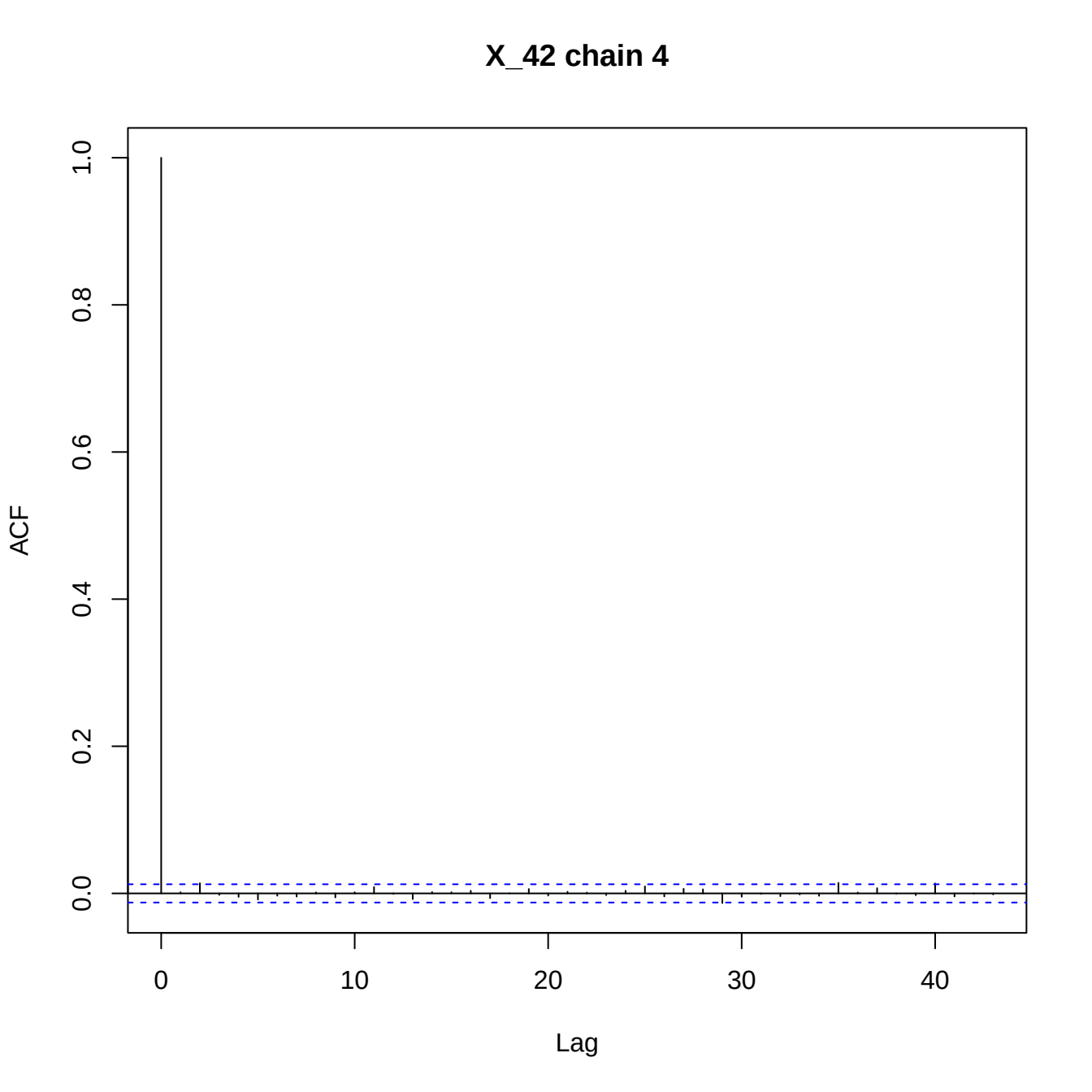
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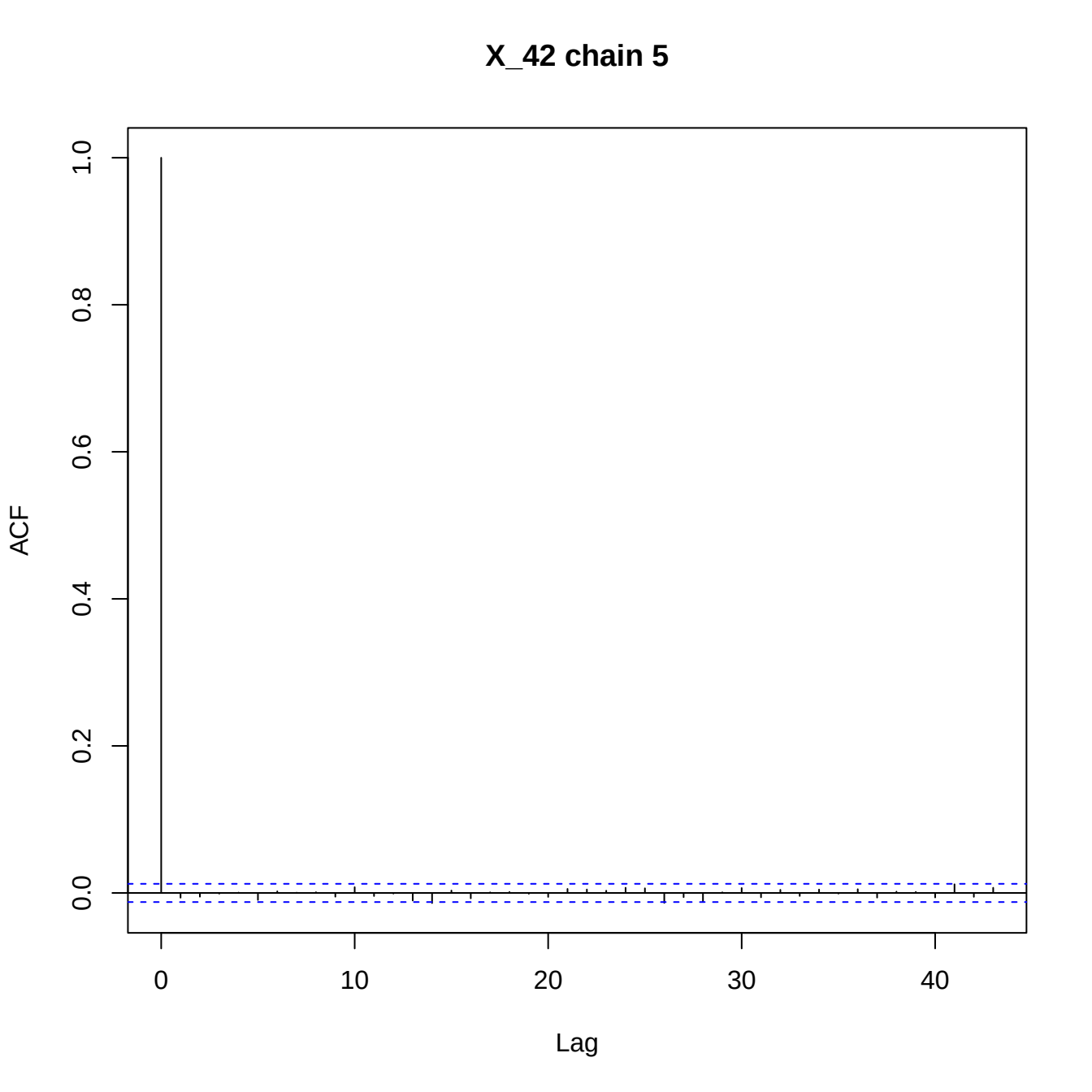
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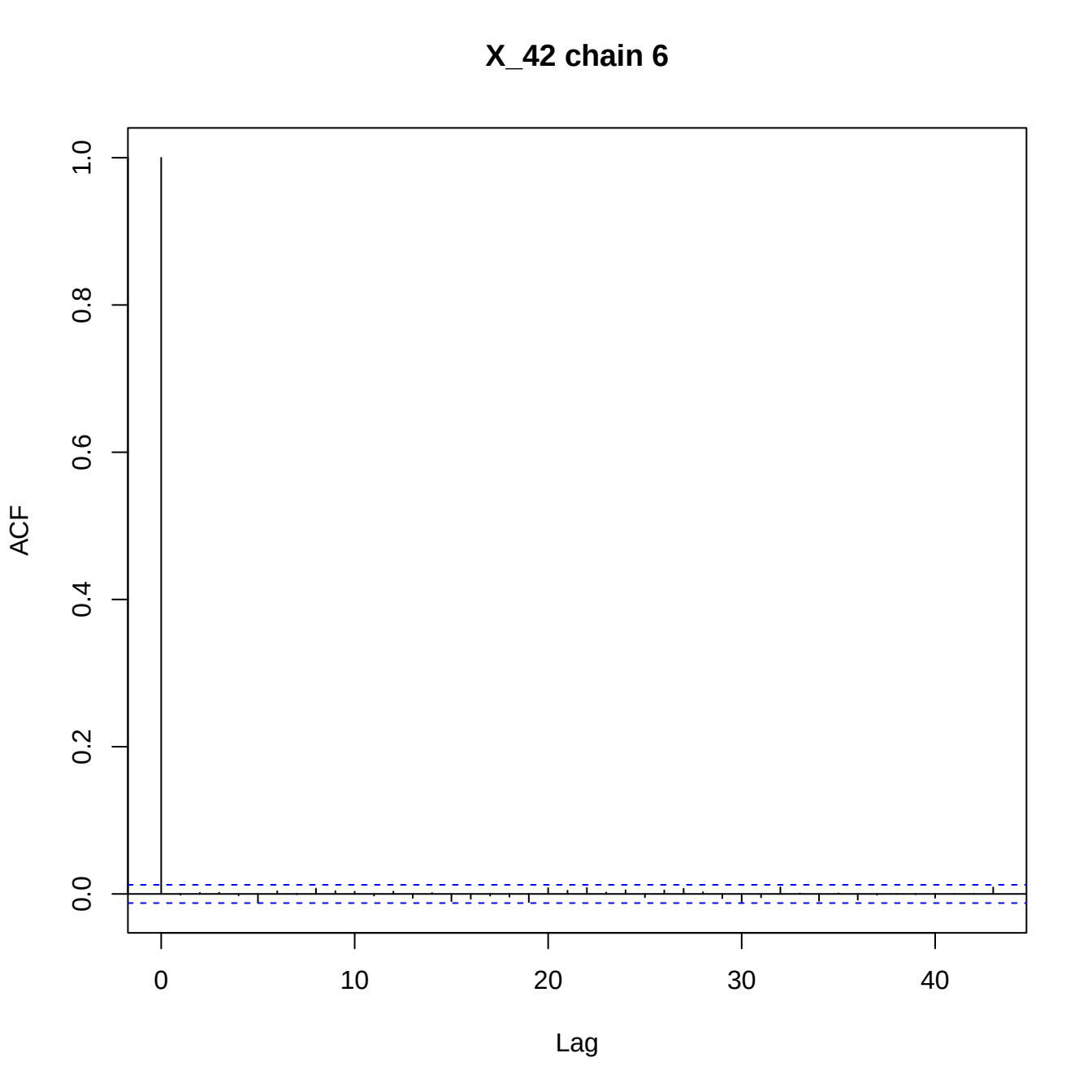
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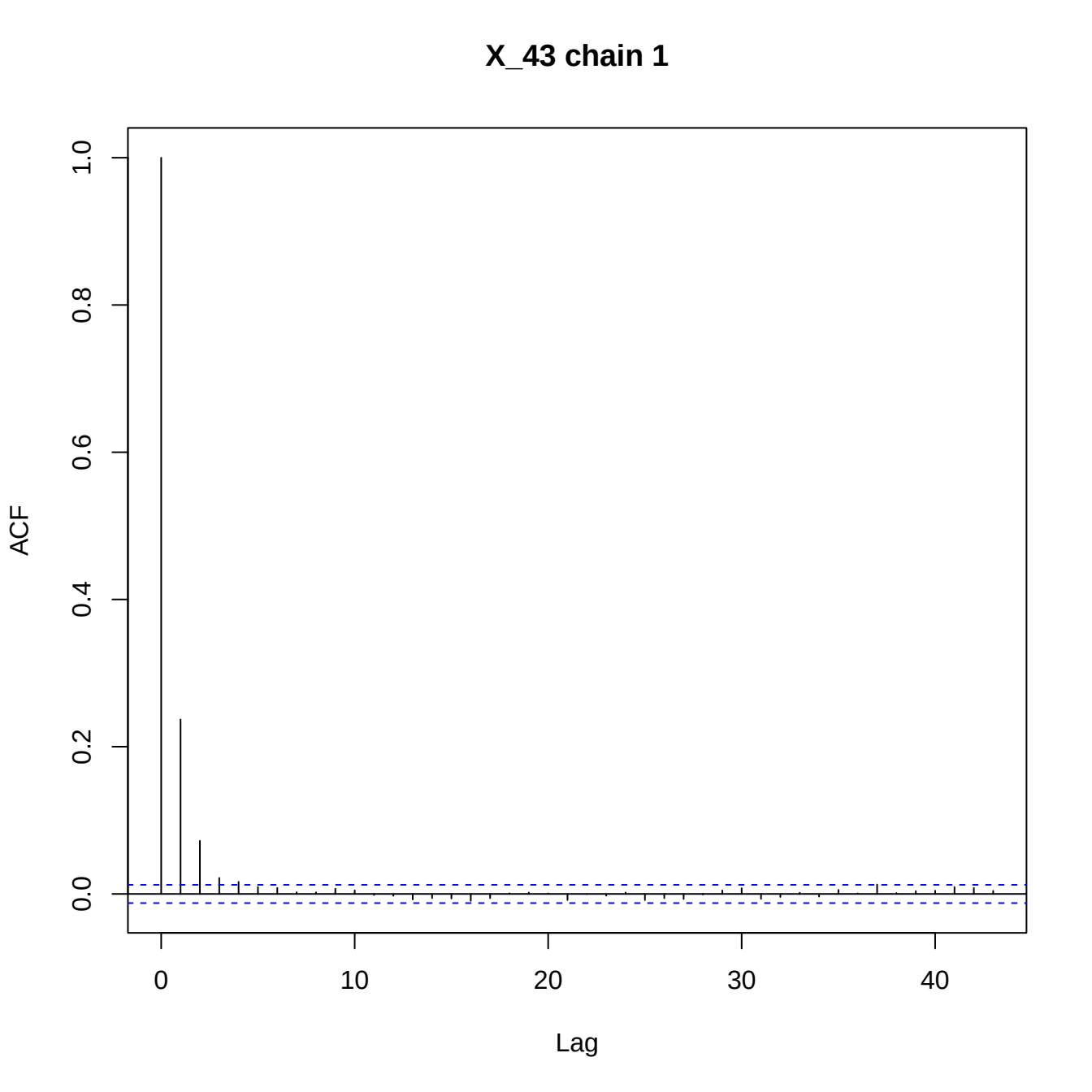
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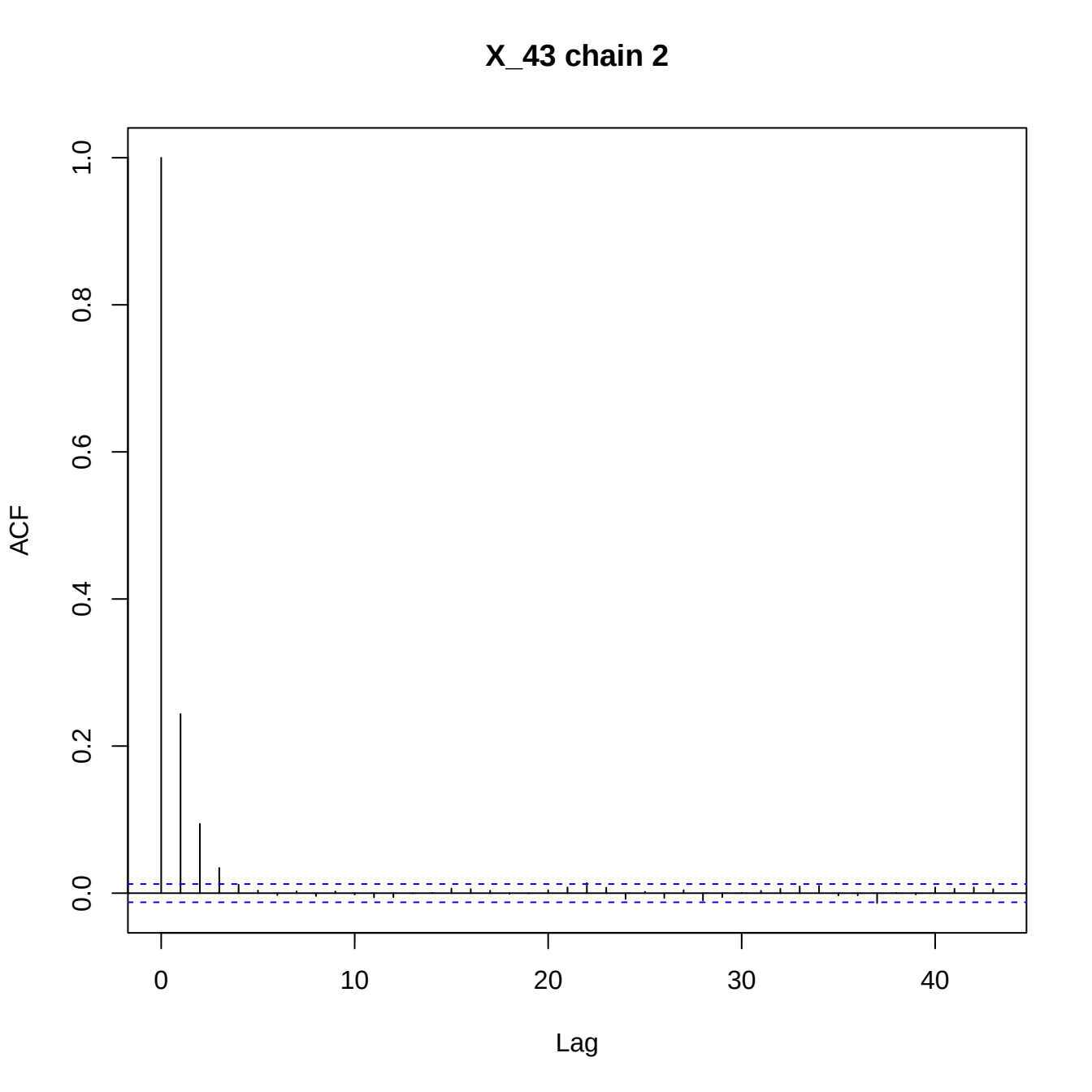
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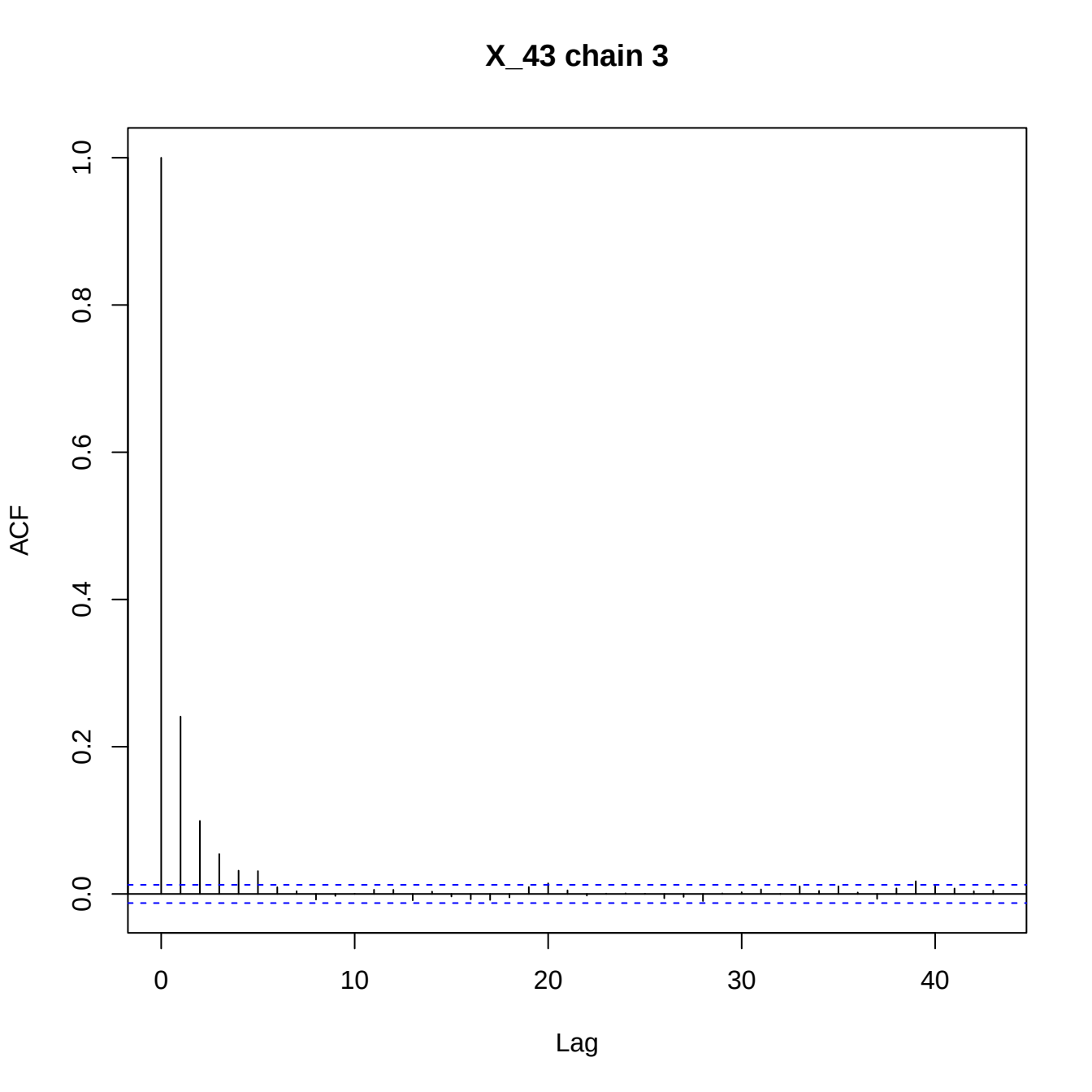
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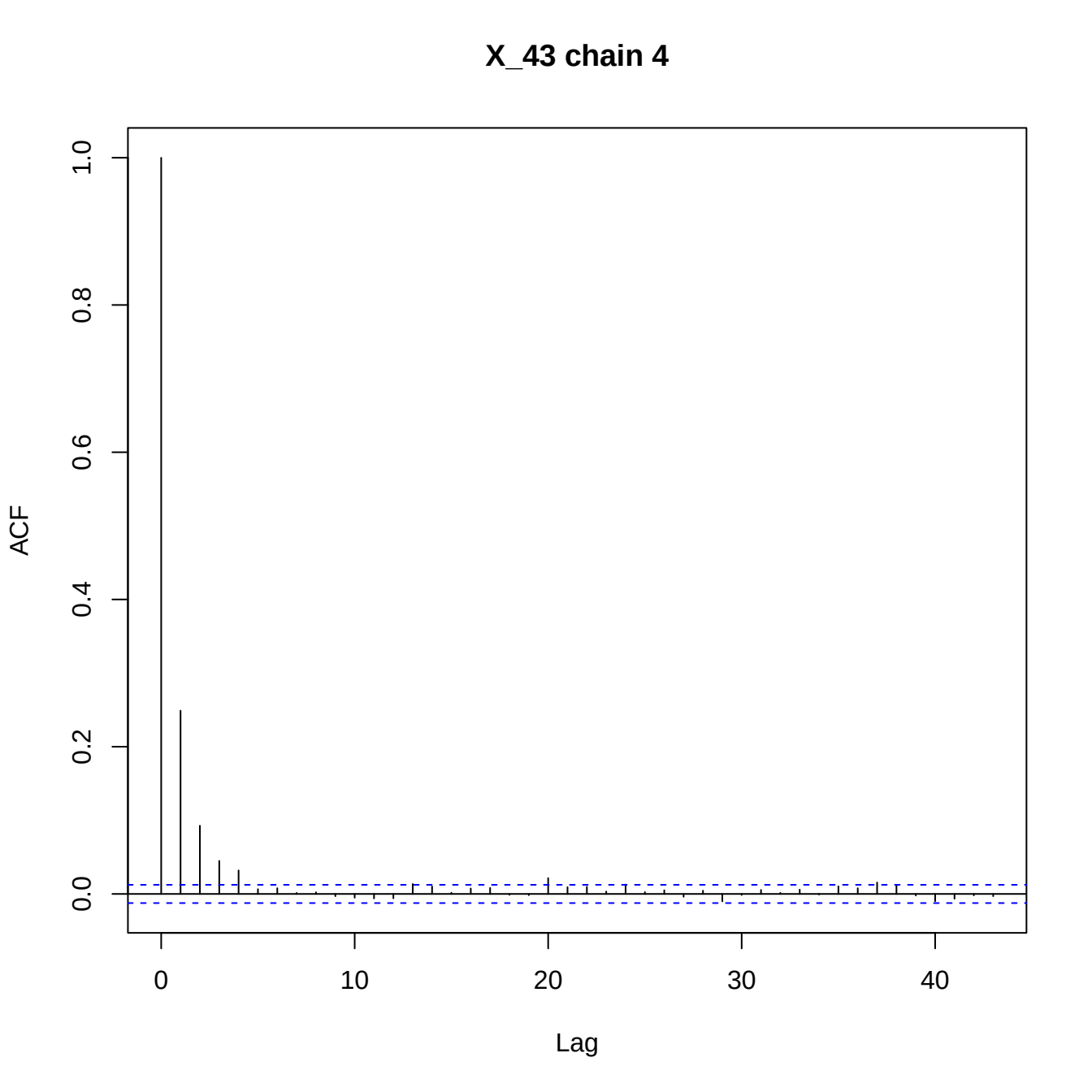
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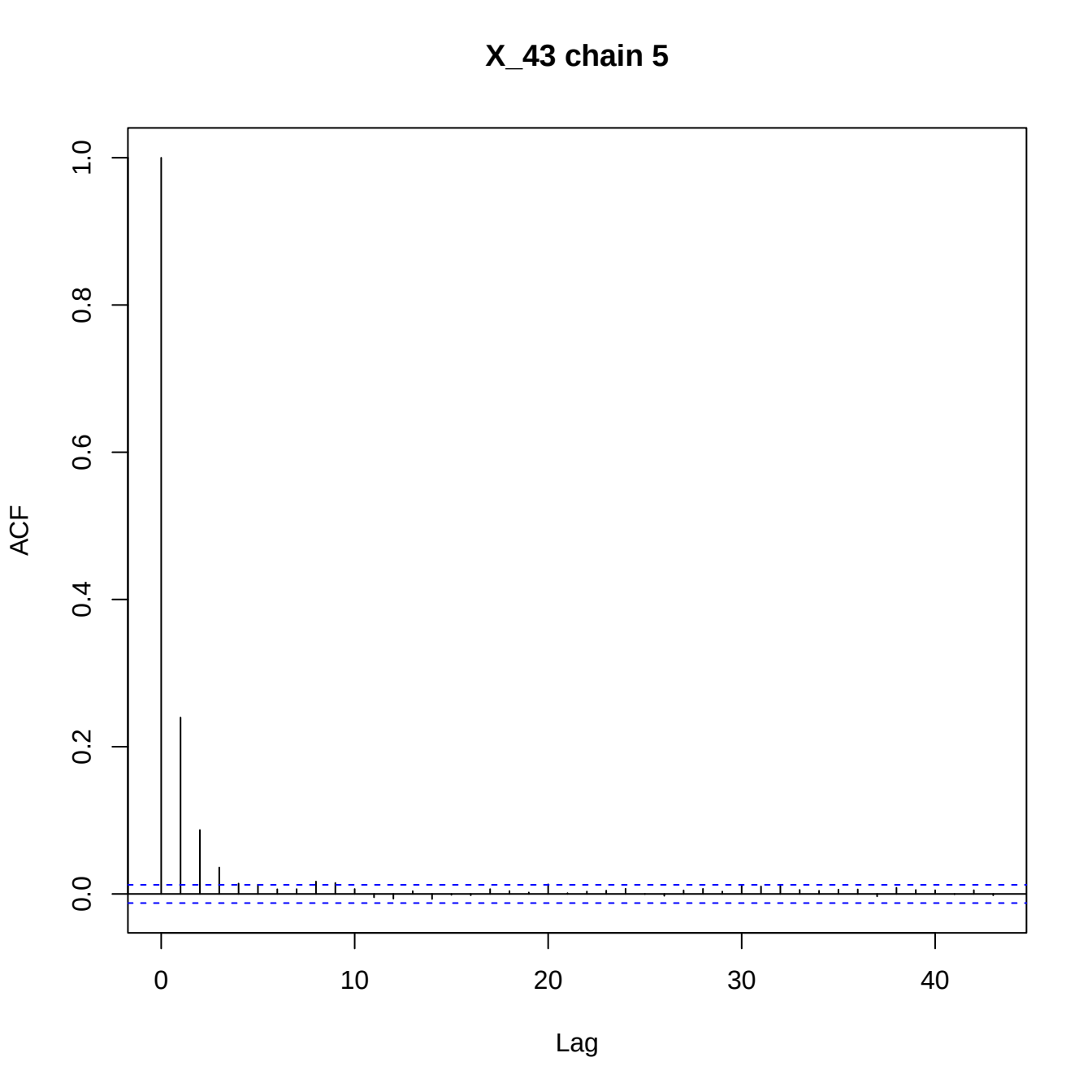
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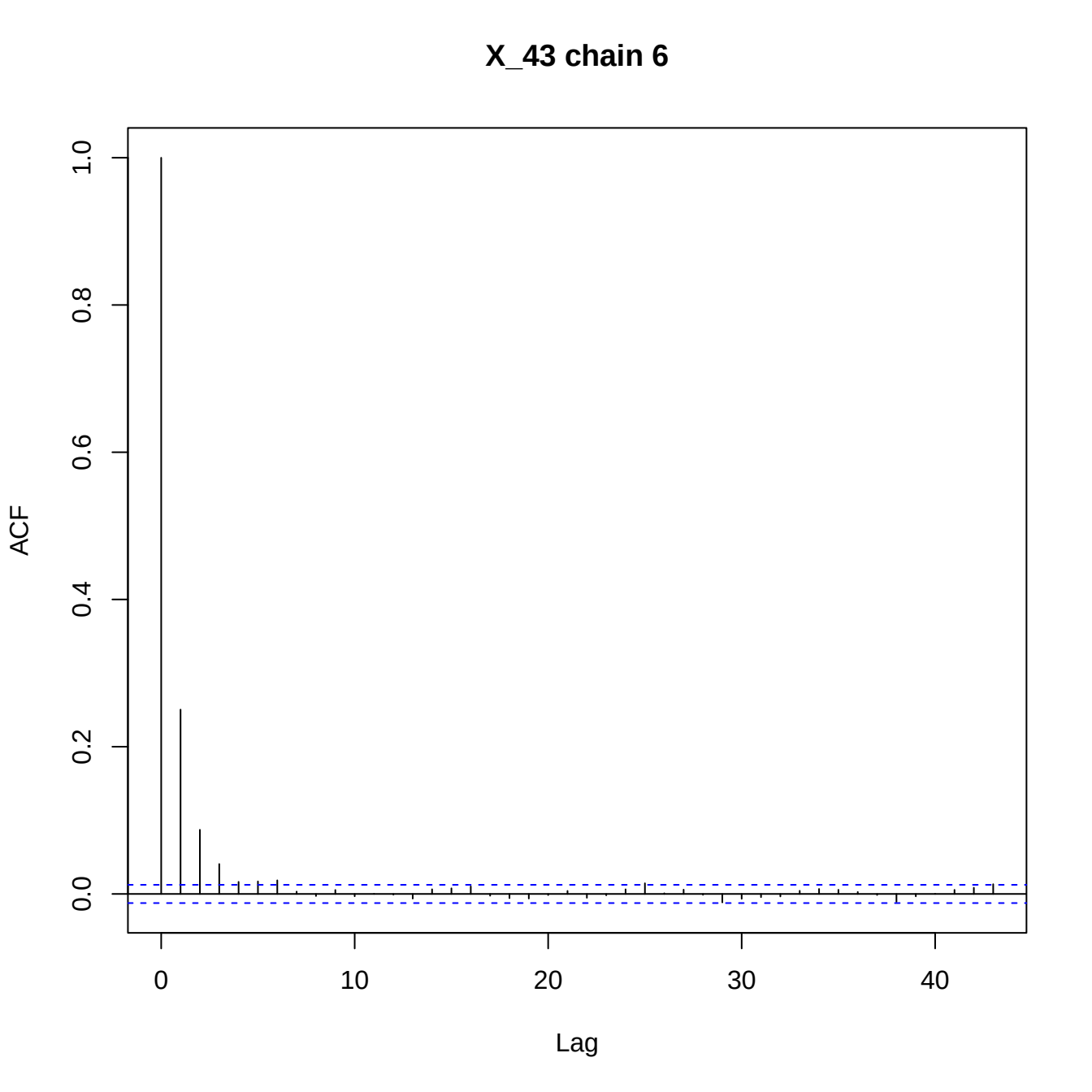
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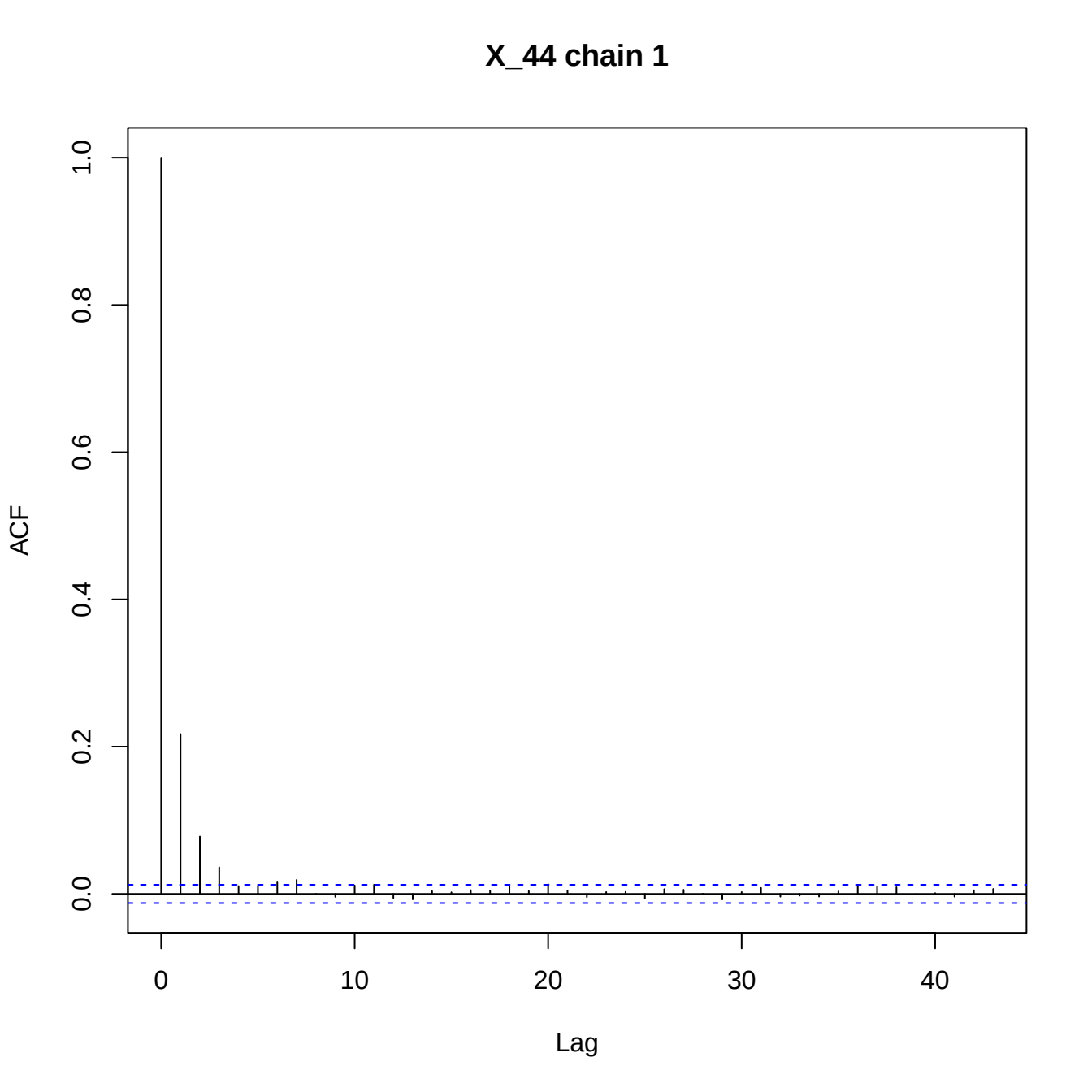
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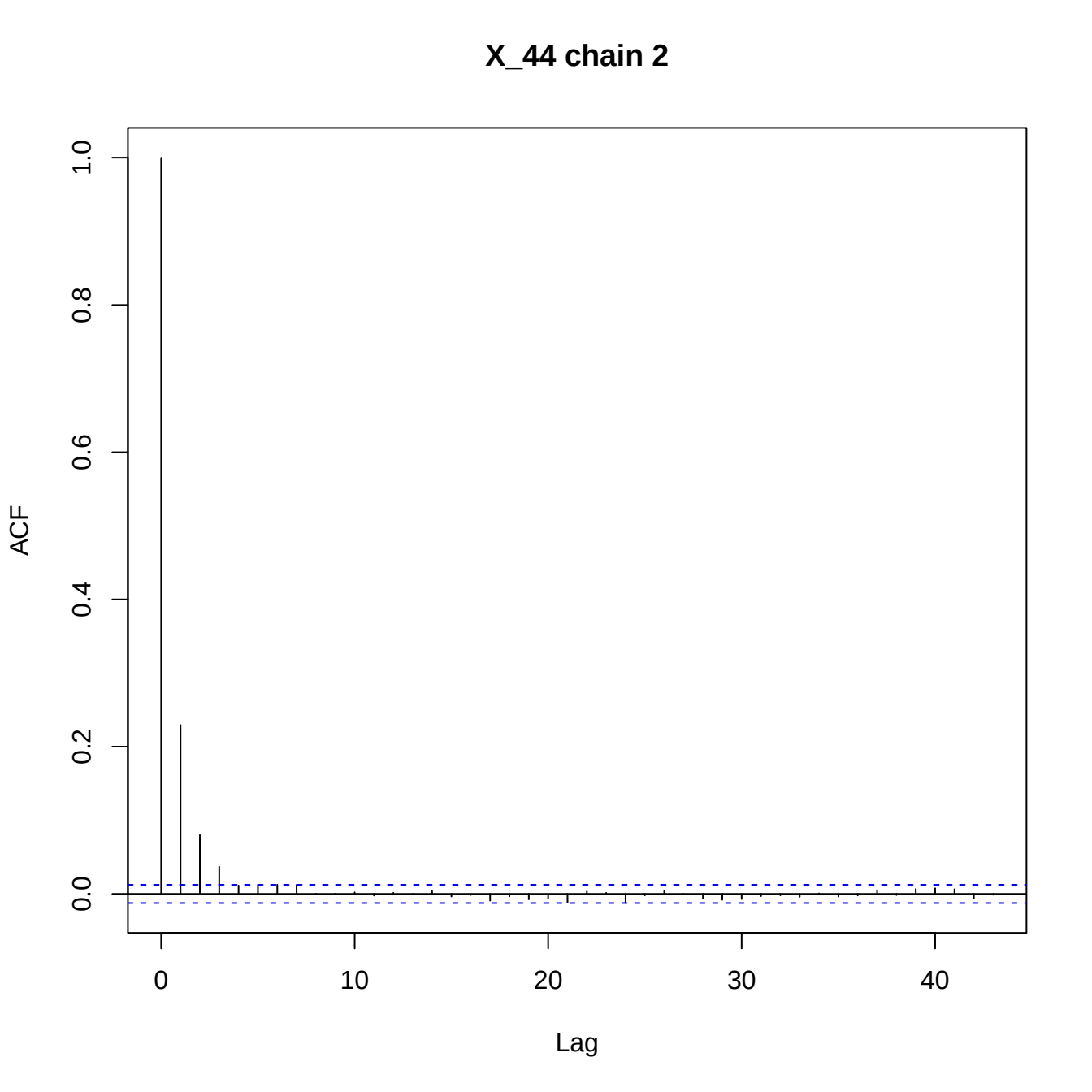
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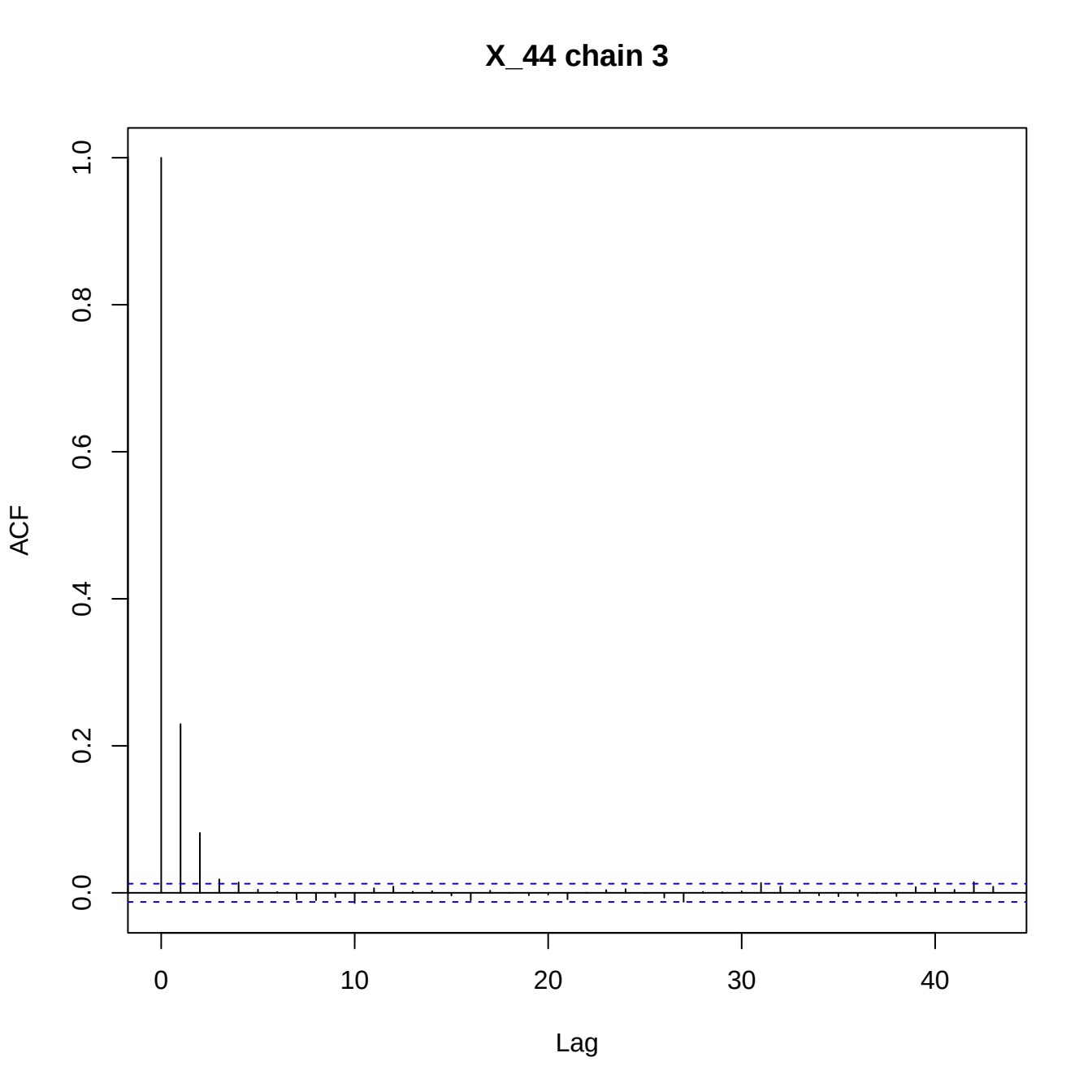
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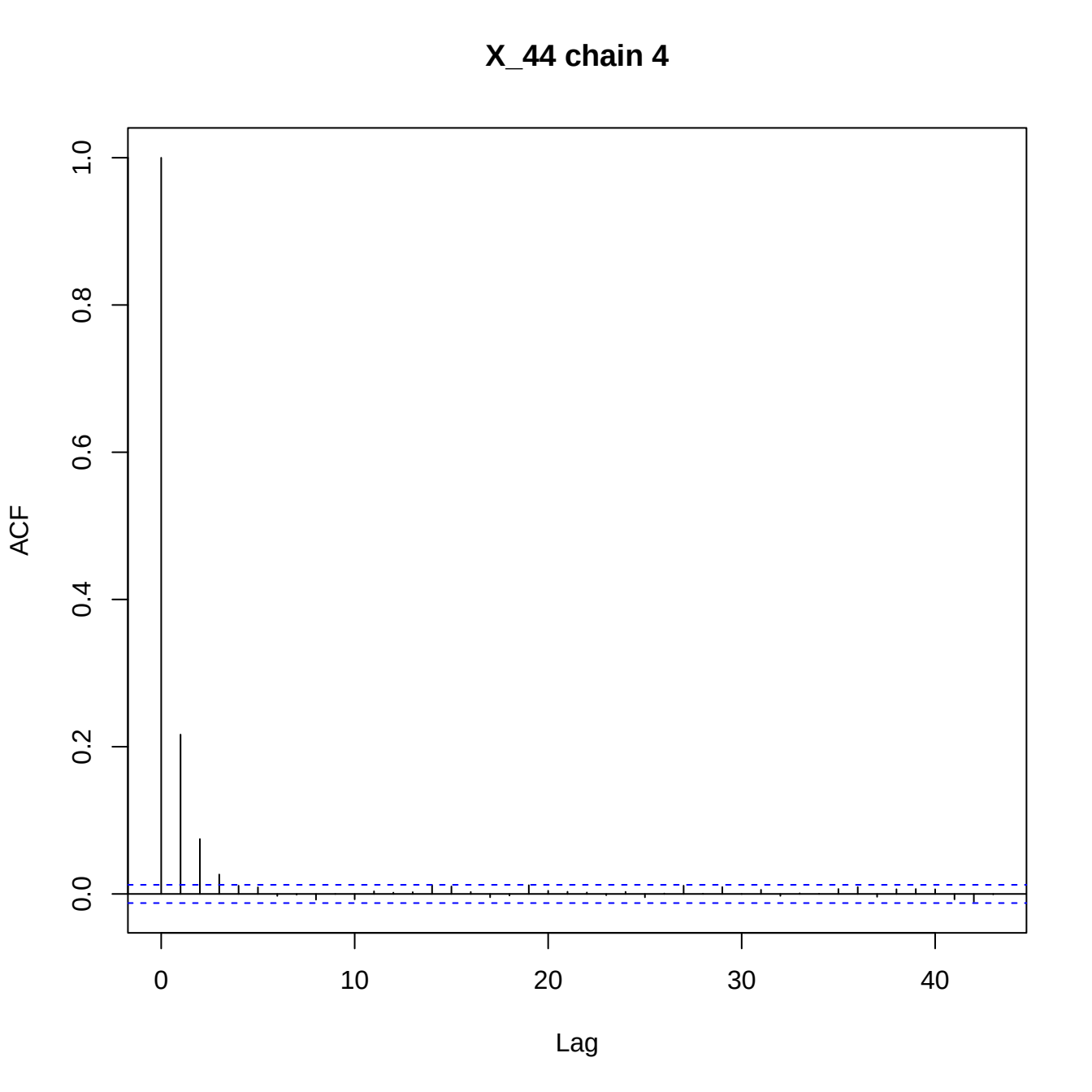
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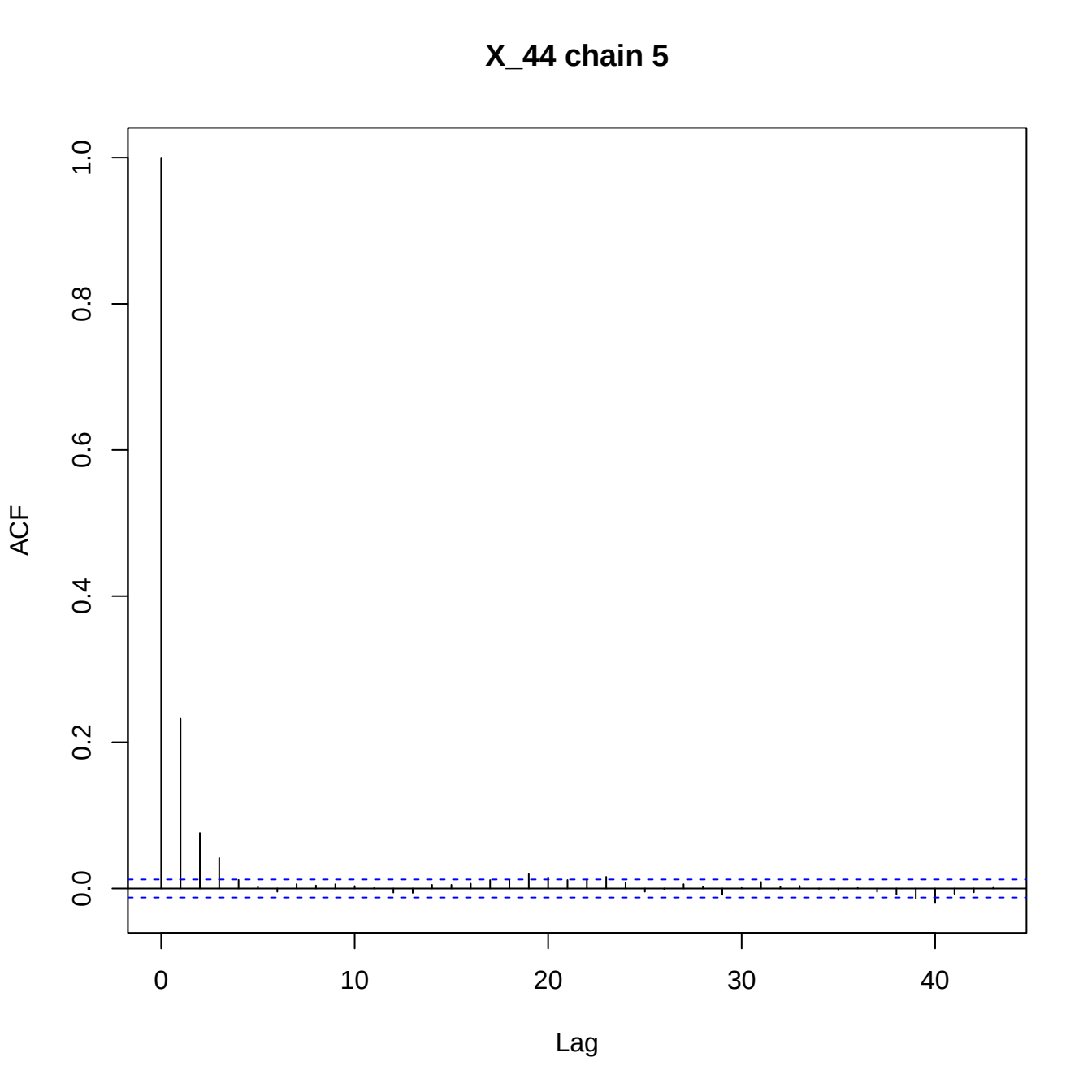
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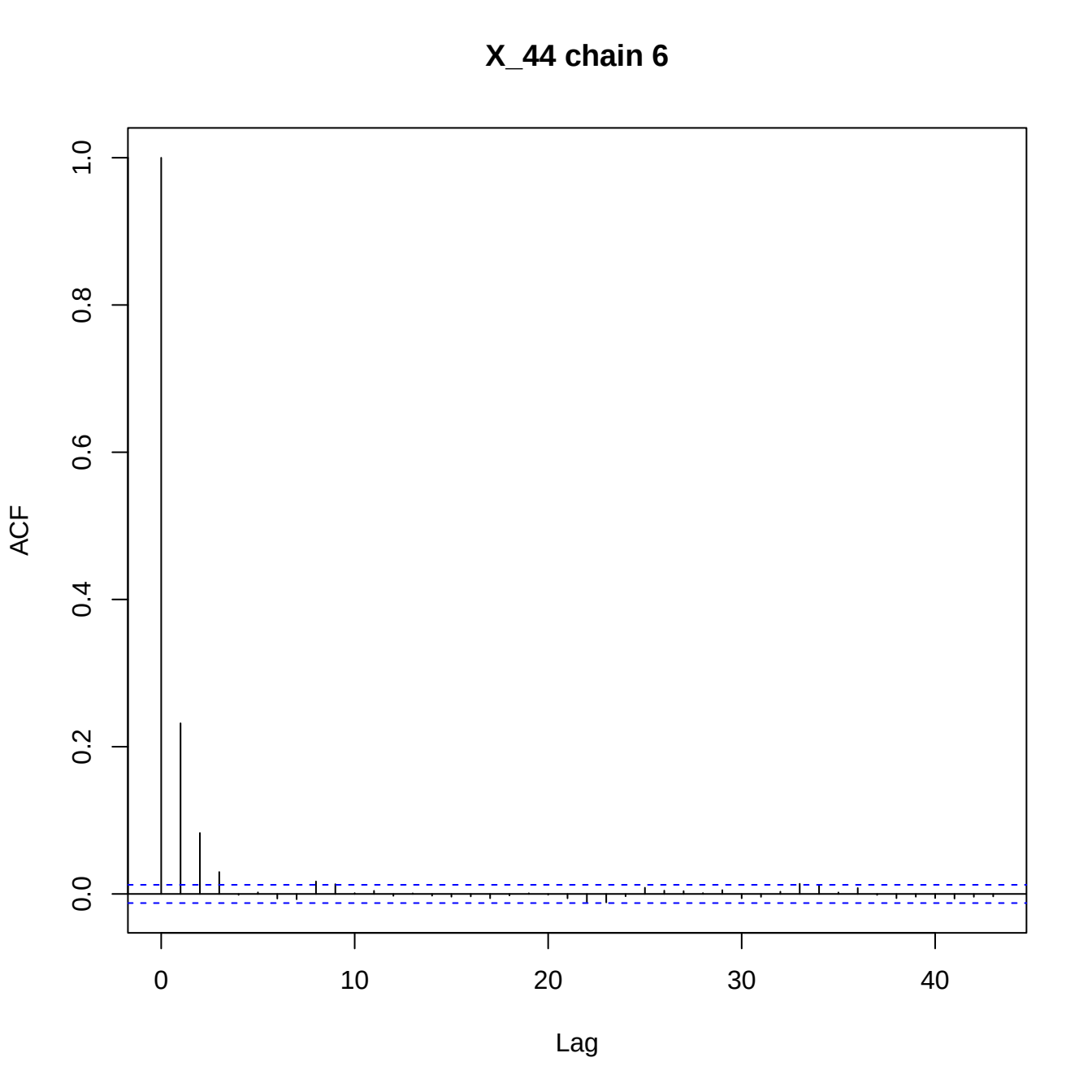
Lag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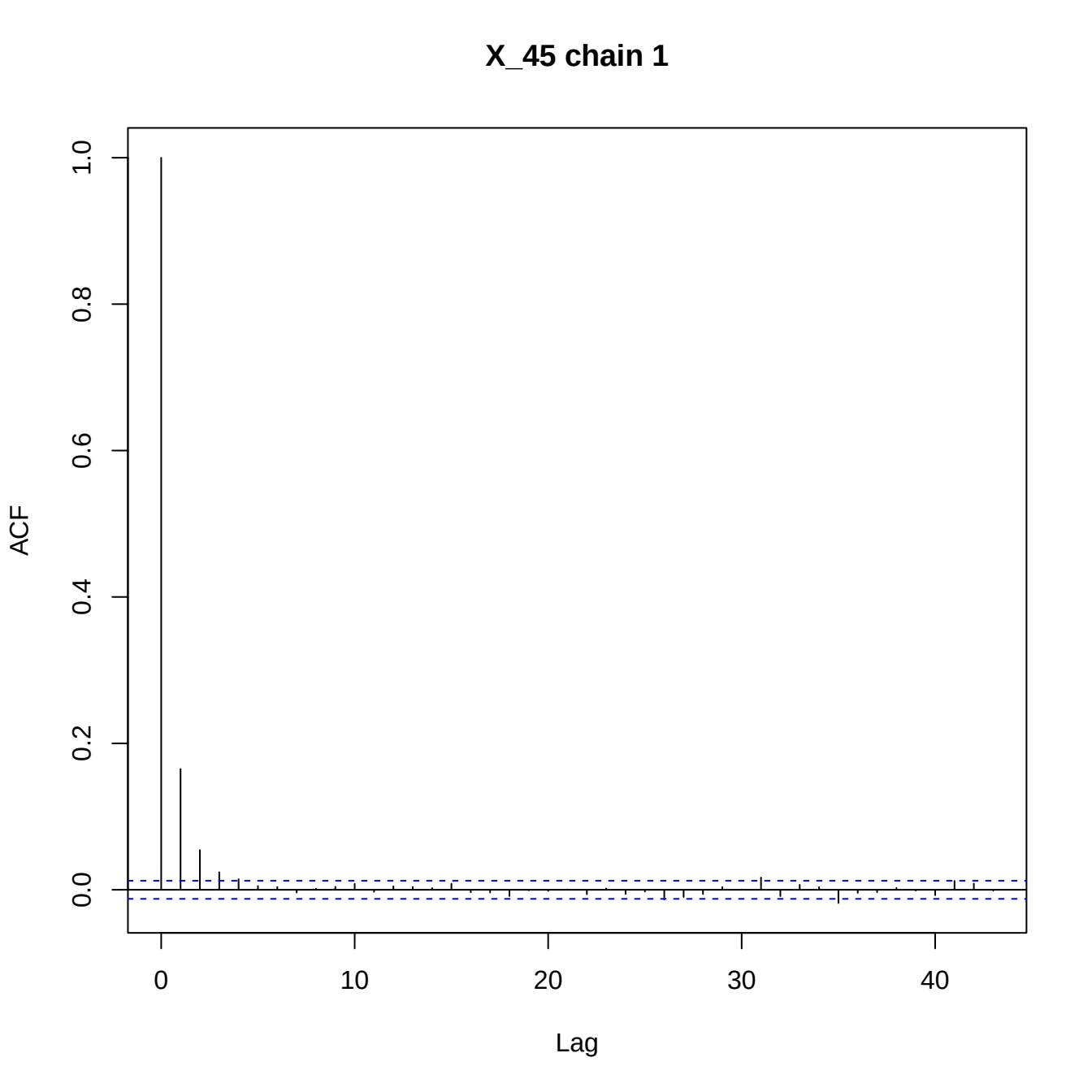
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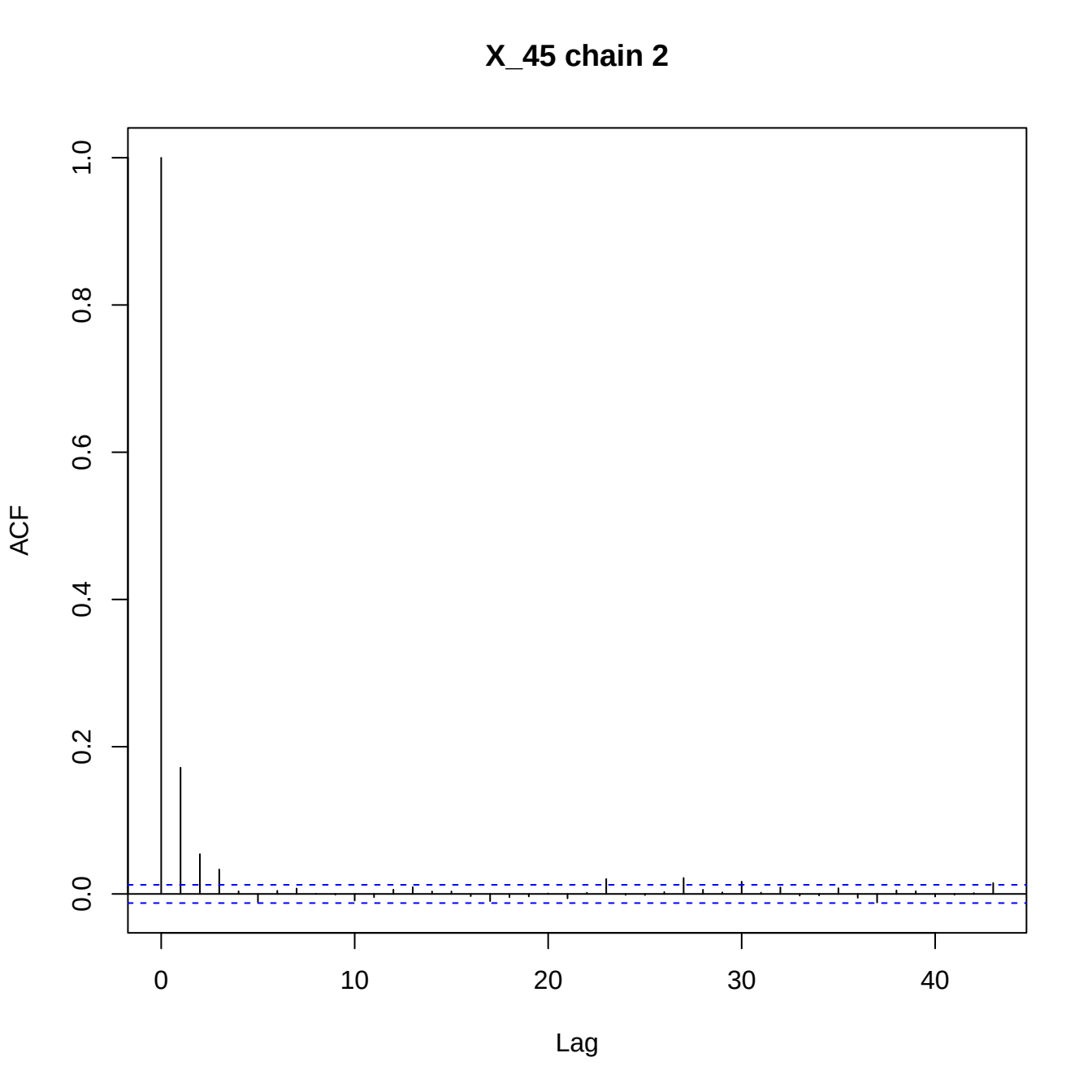
Lag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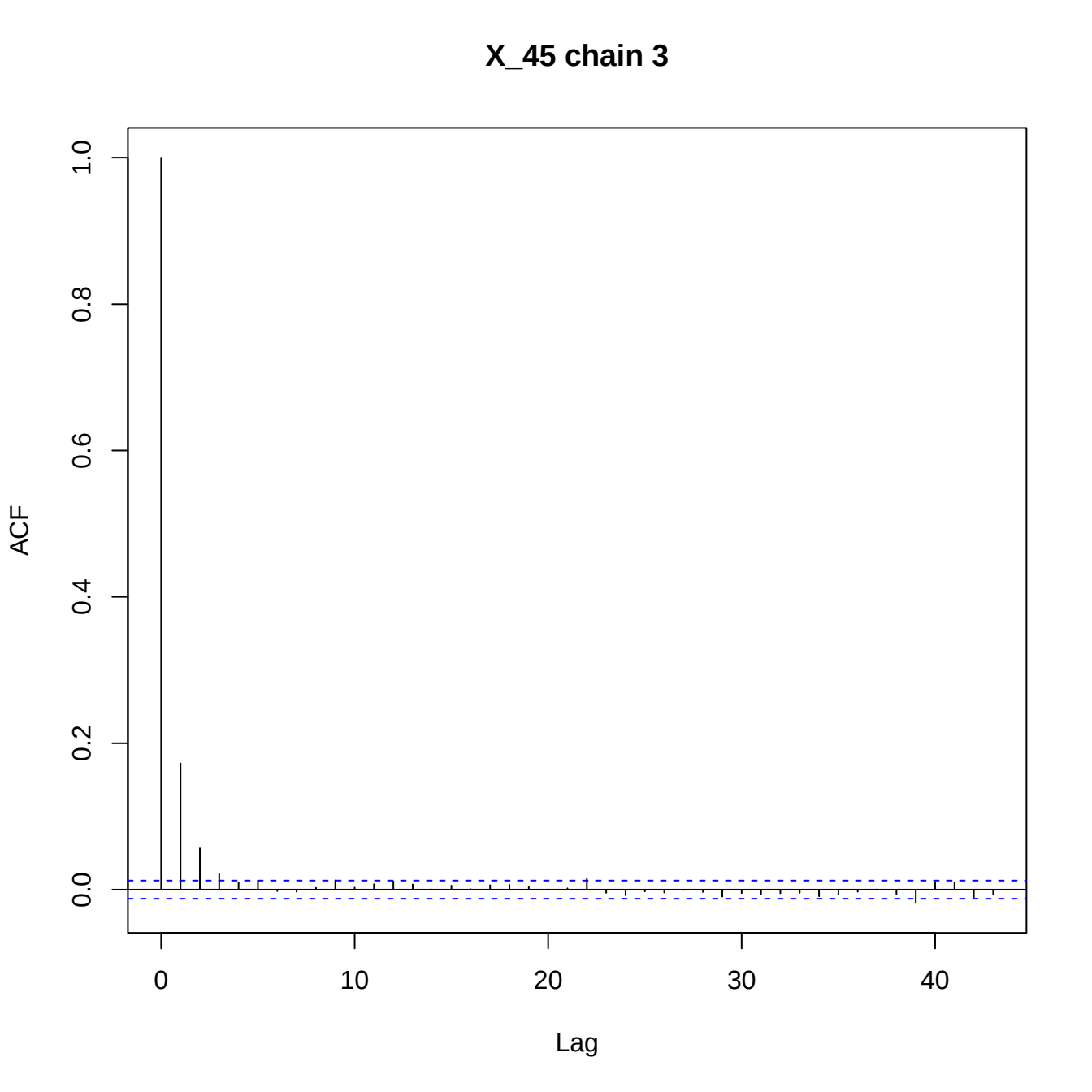
Lag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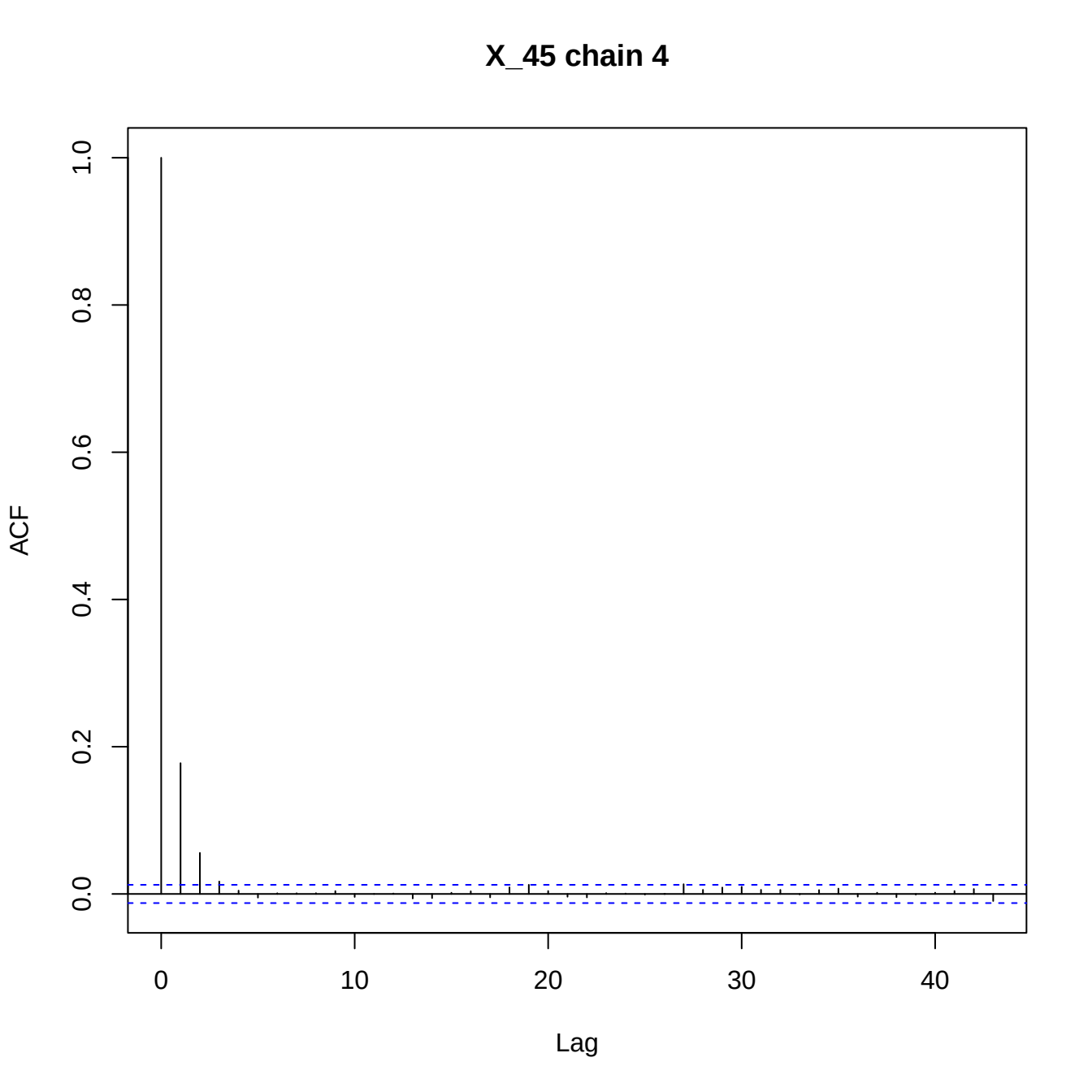
Lag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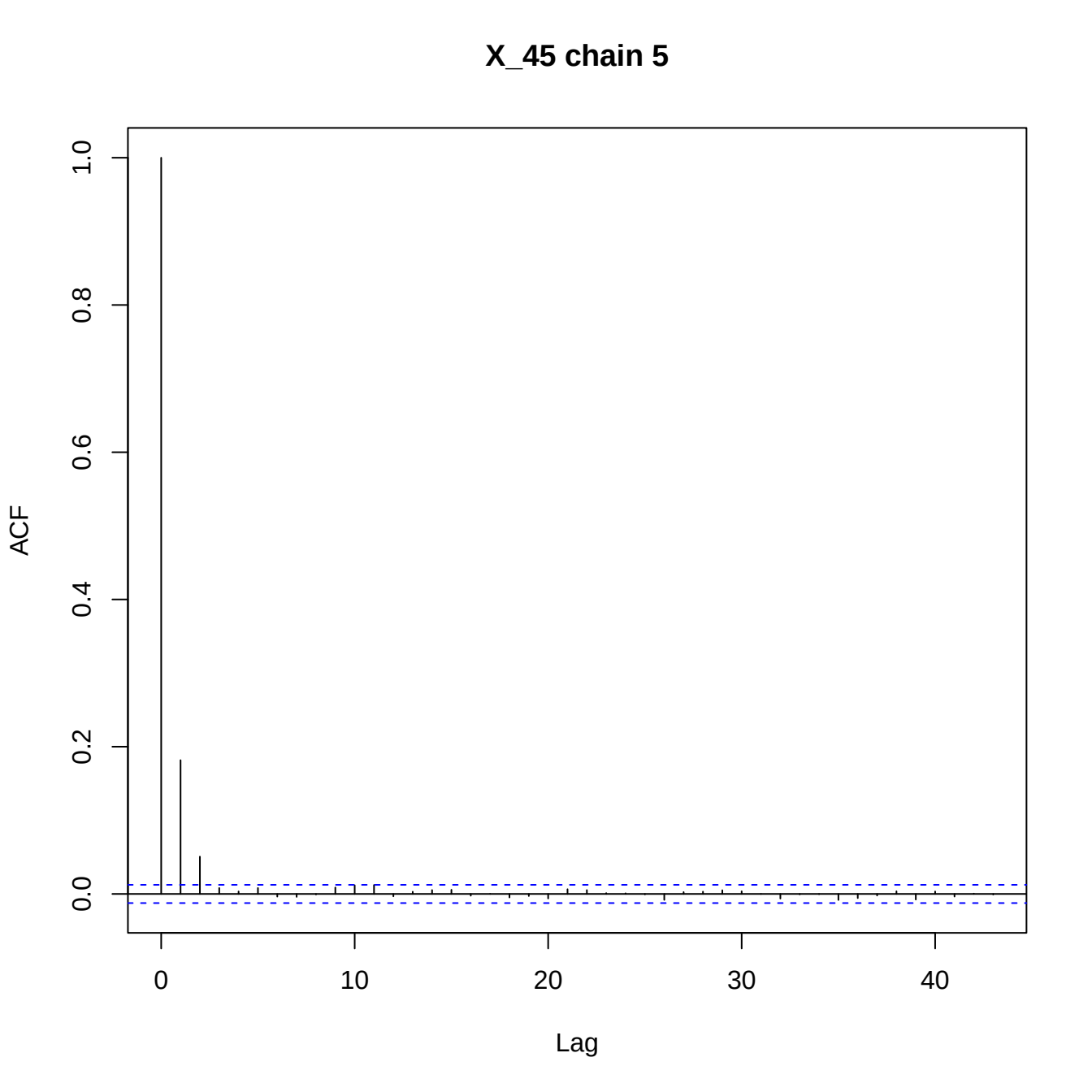
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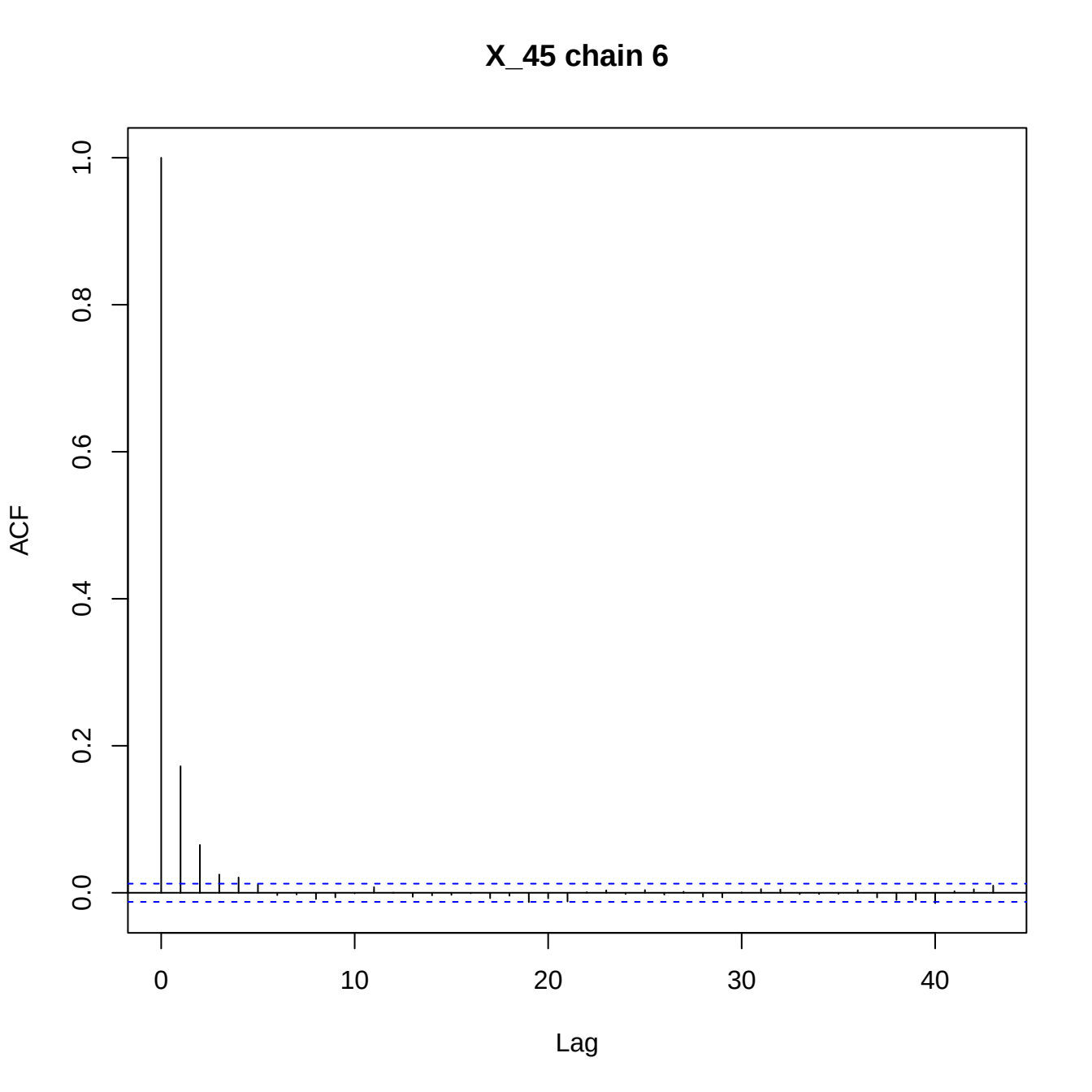
Lag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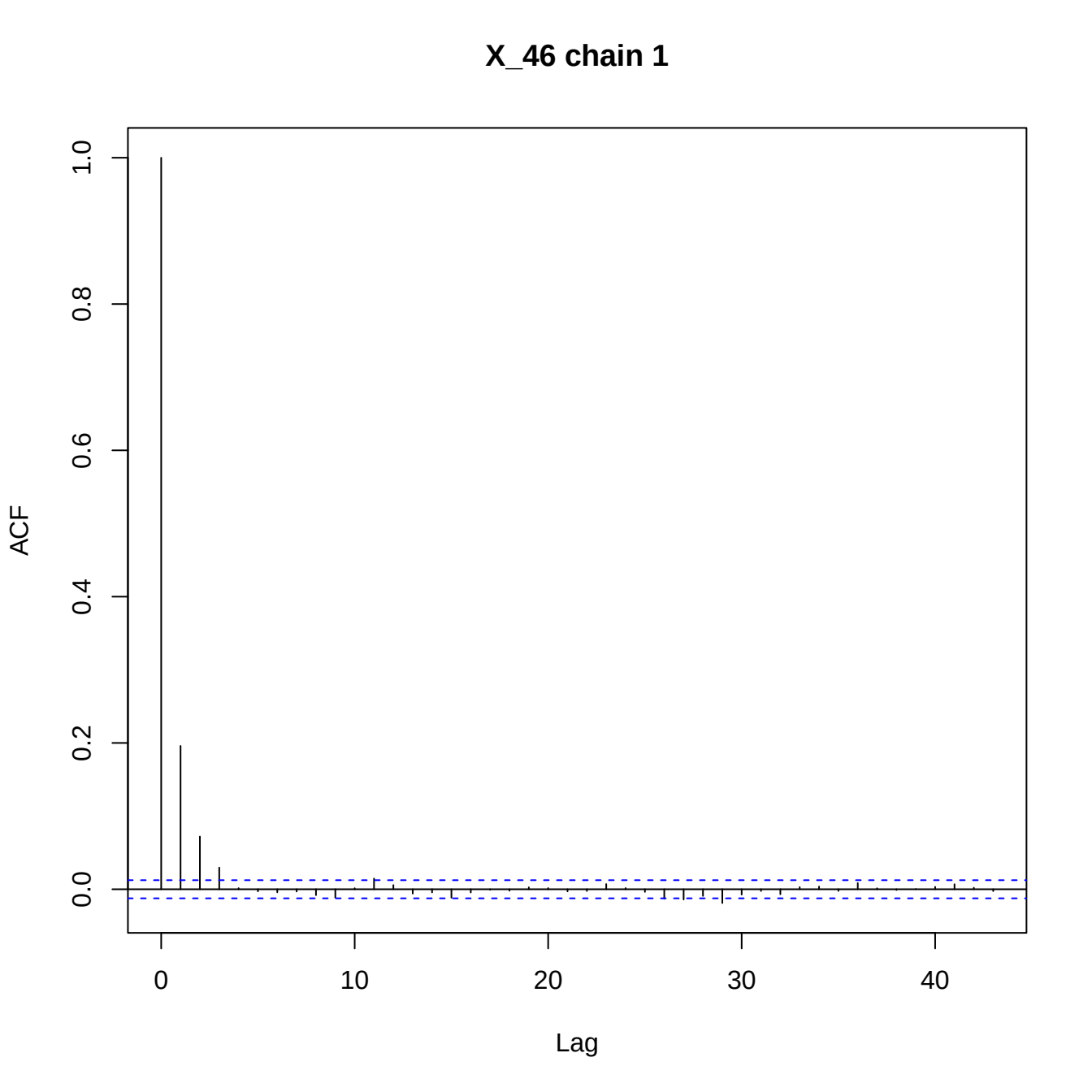
Lag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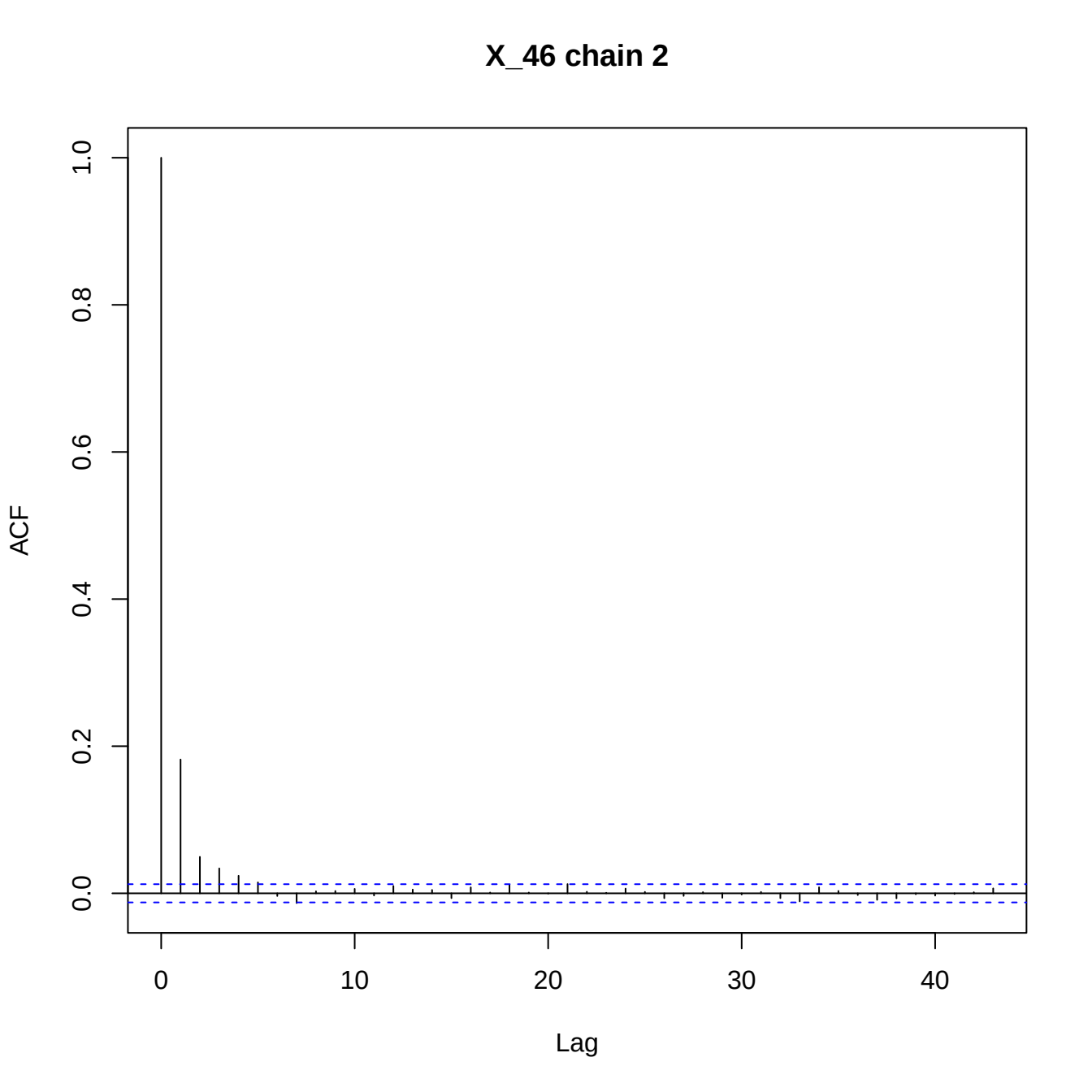
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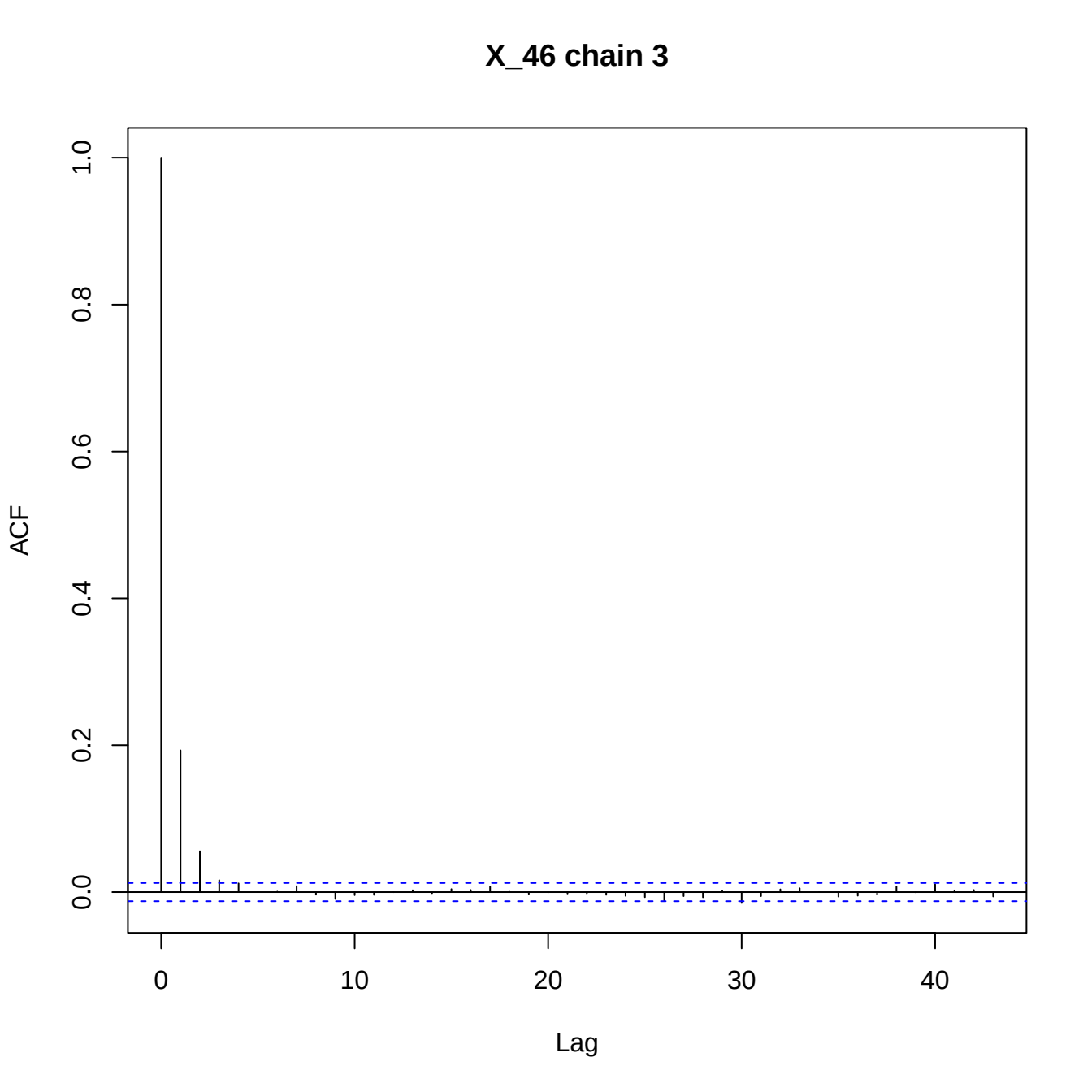
Lag


X_46 chain 3
ACF
1.0
0.8
0.6
0.4
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0.0
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20
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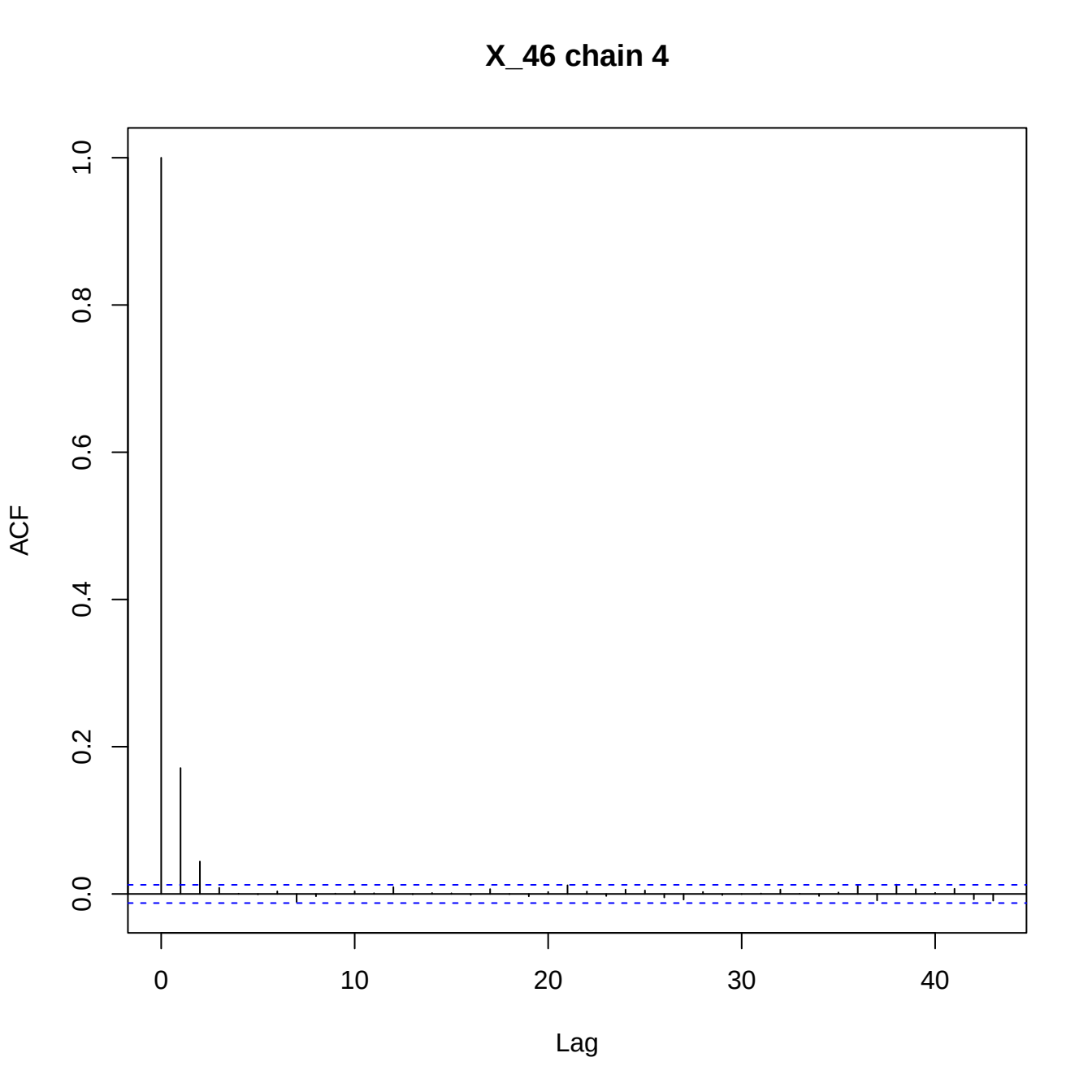
Lag


X_46 chain 4
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
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20
30
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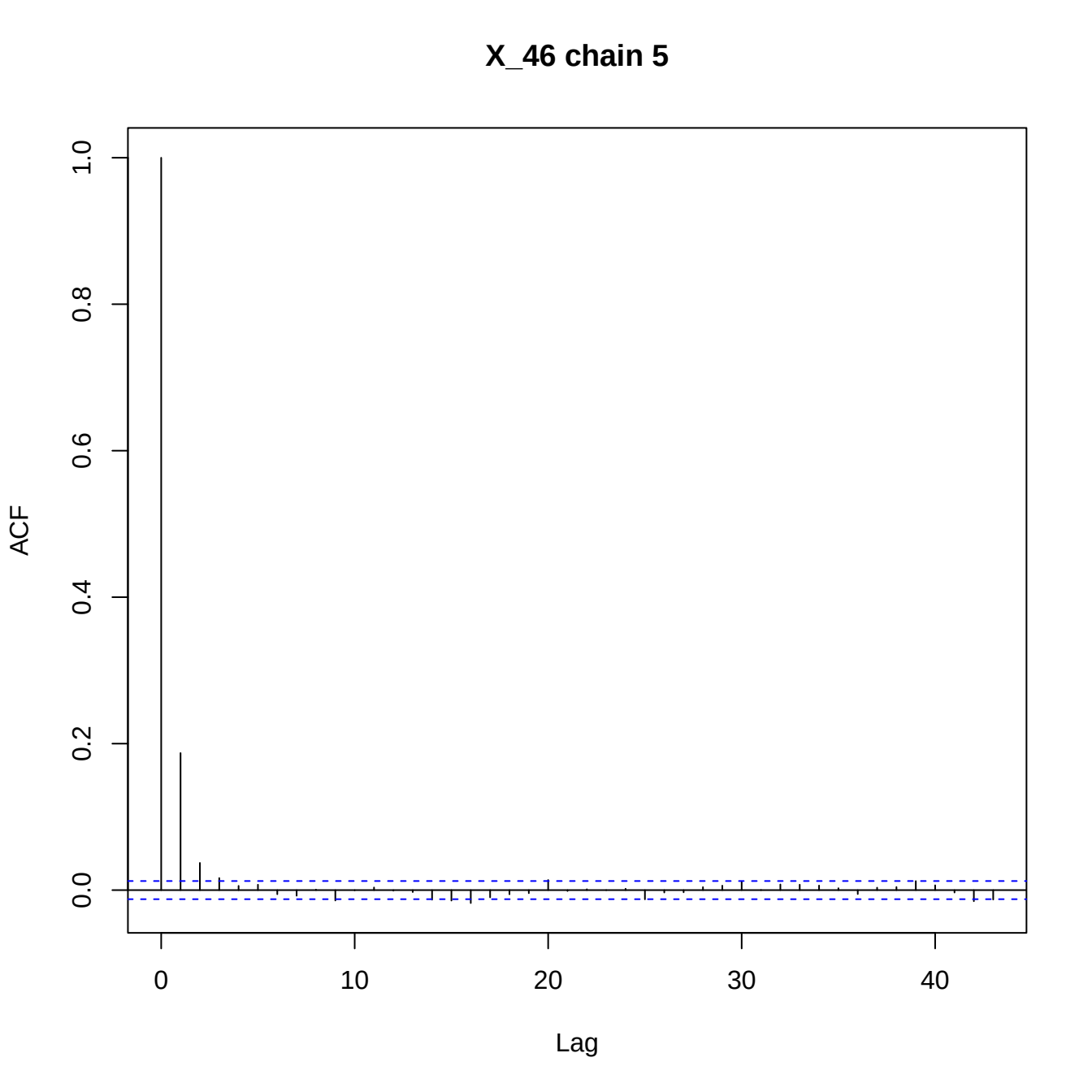
Lag


X_46 chain 5
ACF
1.0
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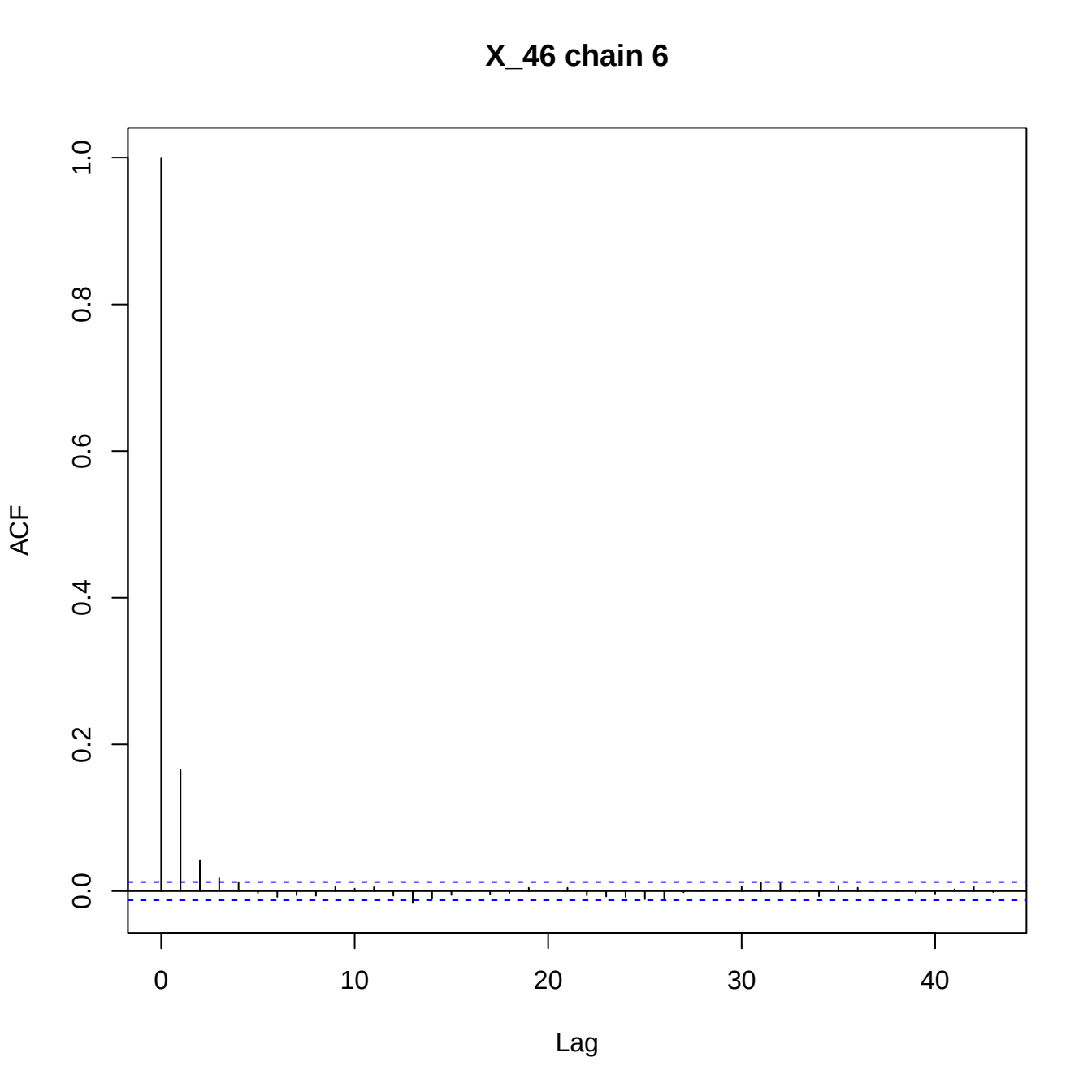
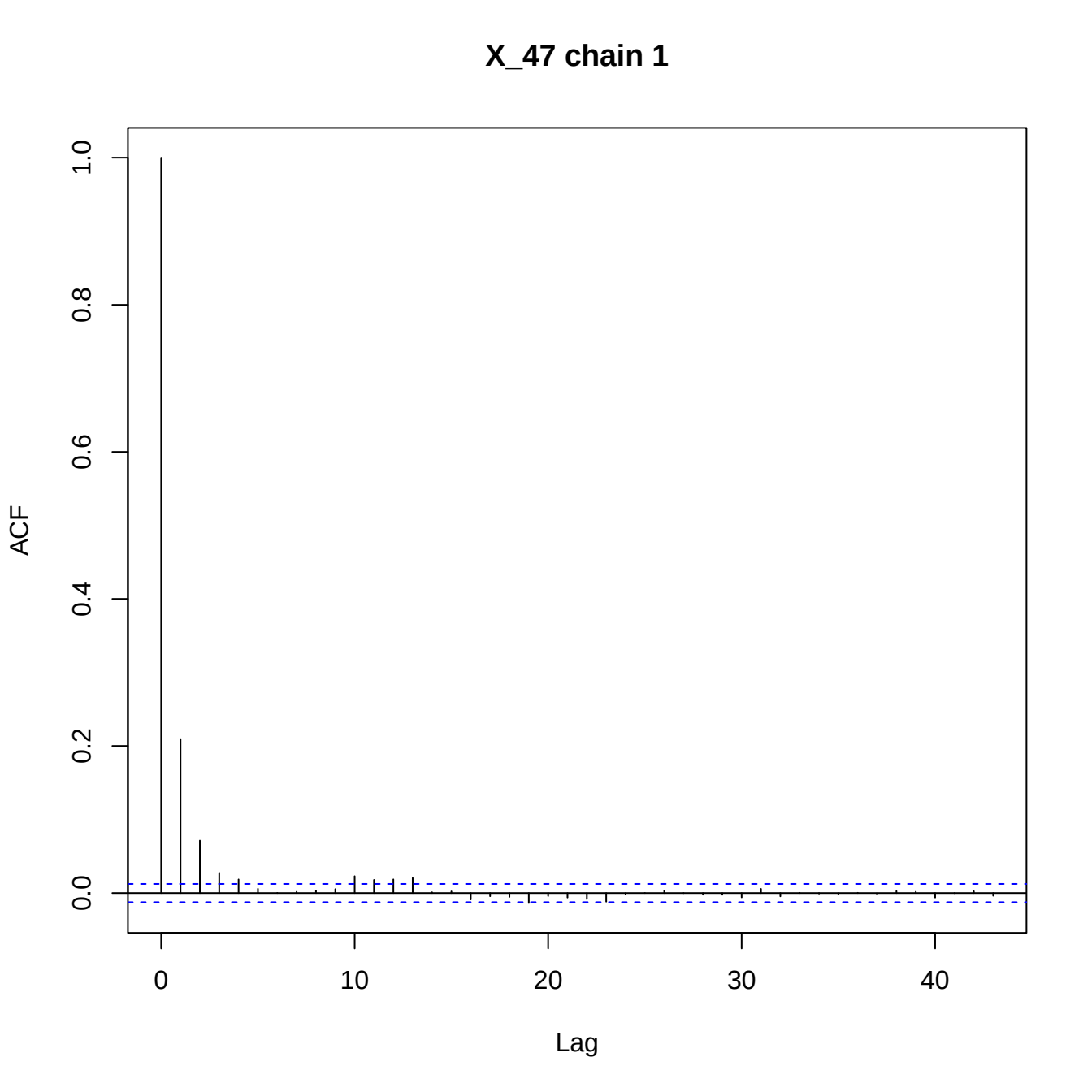
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_46 chain 6
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_47 chain 1
ACF
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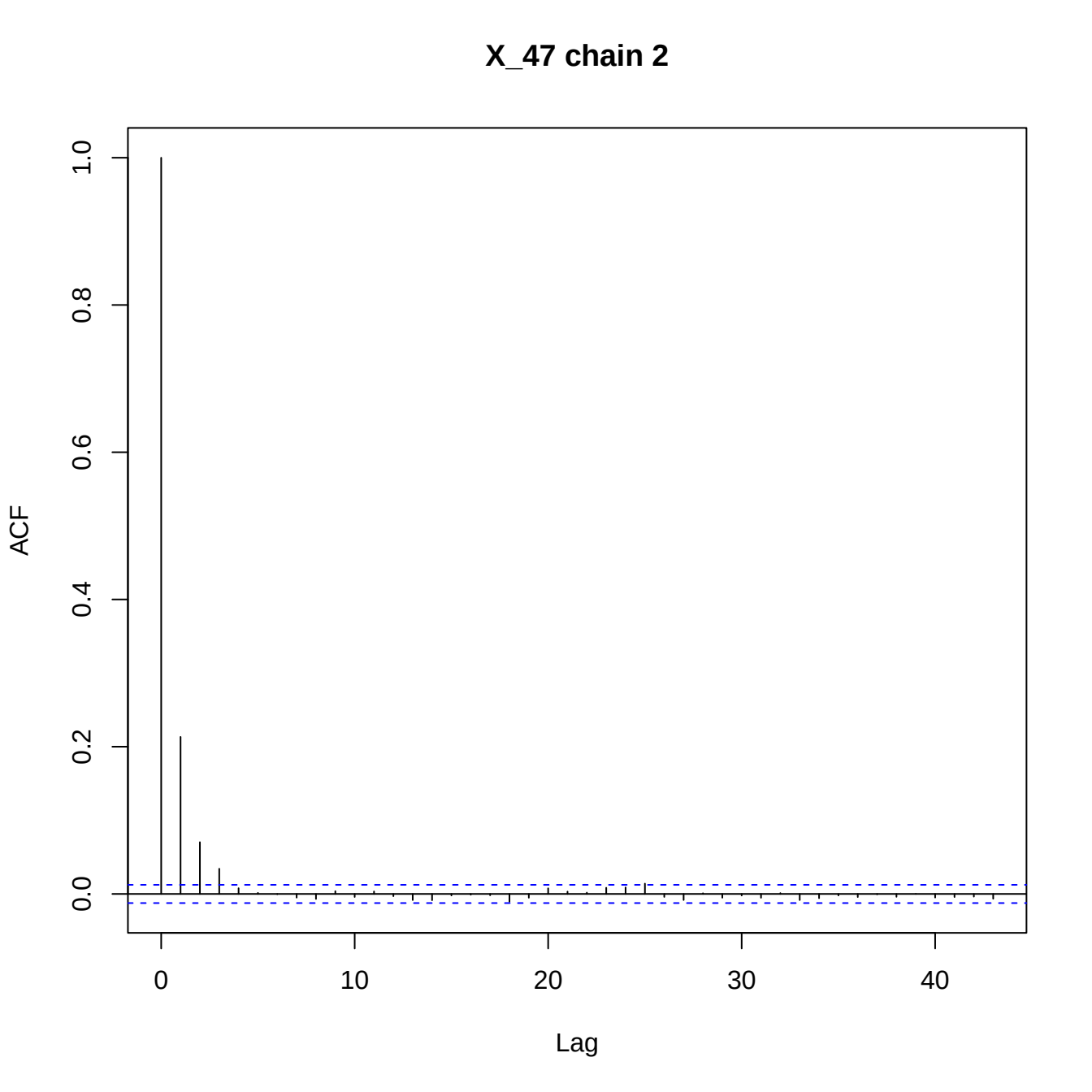
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_47 chain 2
ACF
1.0
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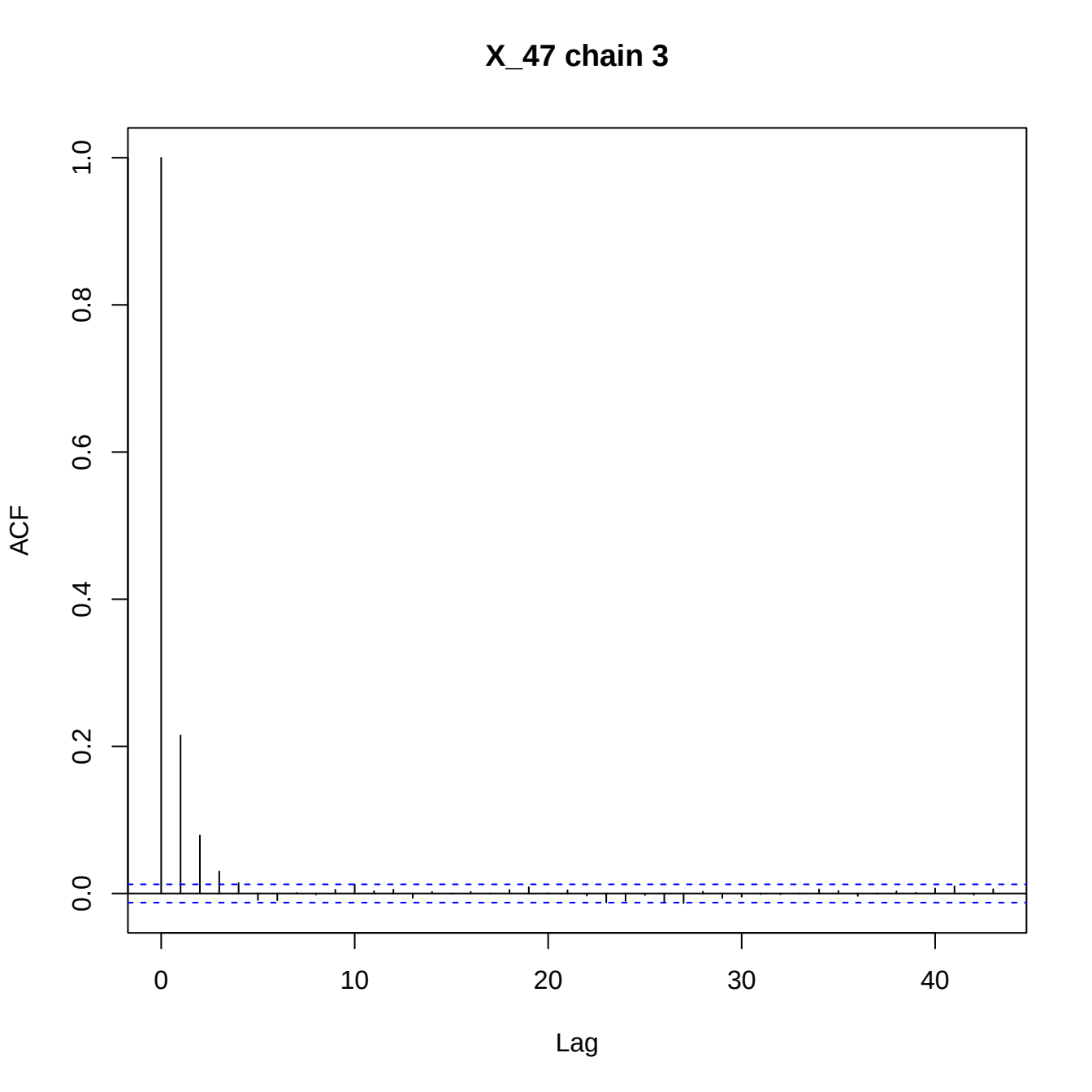
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_47 chain 3
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1.0
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0.6
0.4
0.2
0.0
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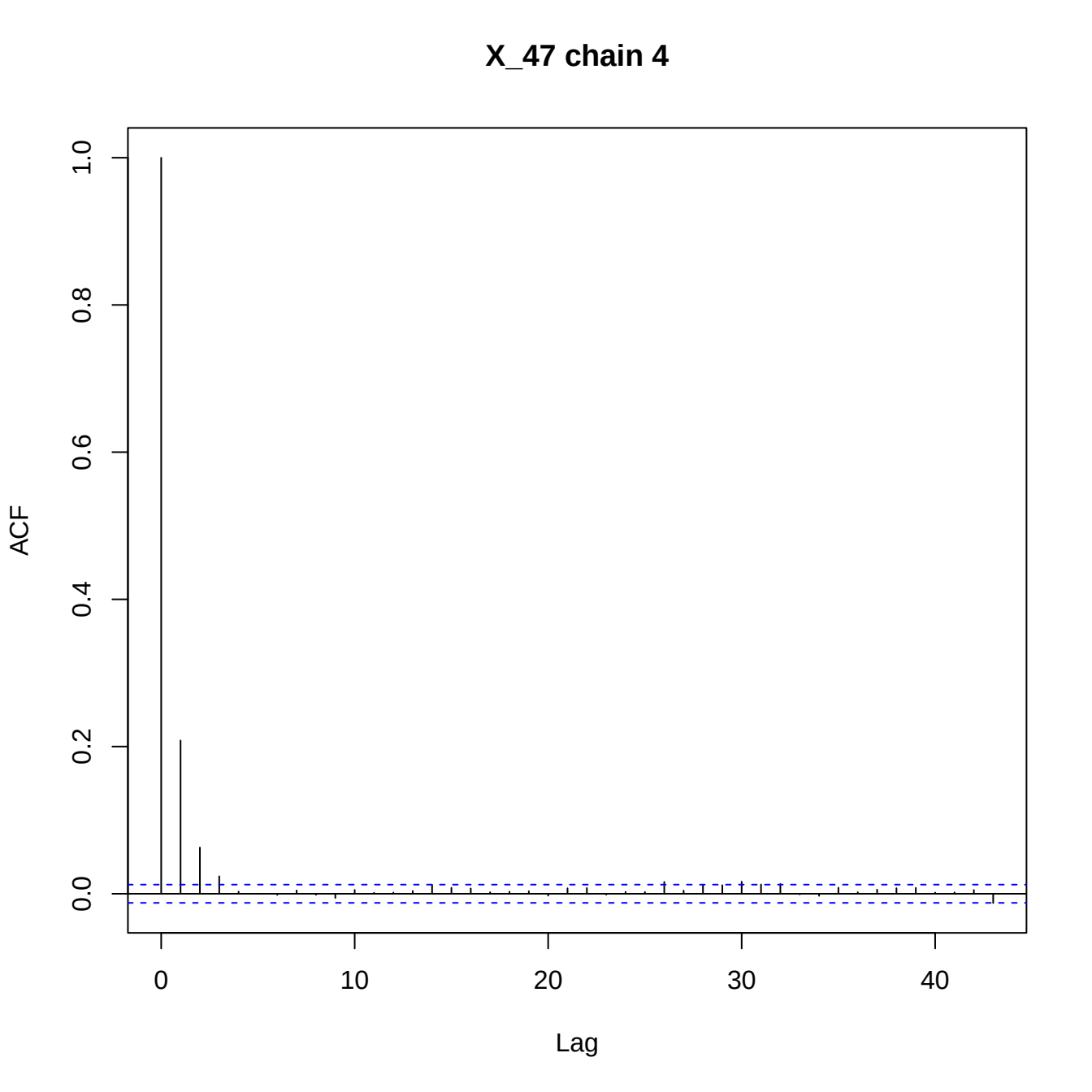
Lag


X_47 chain 4
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1.0
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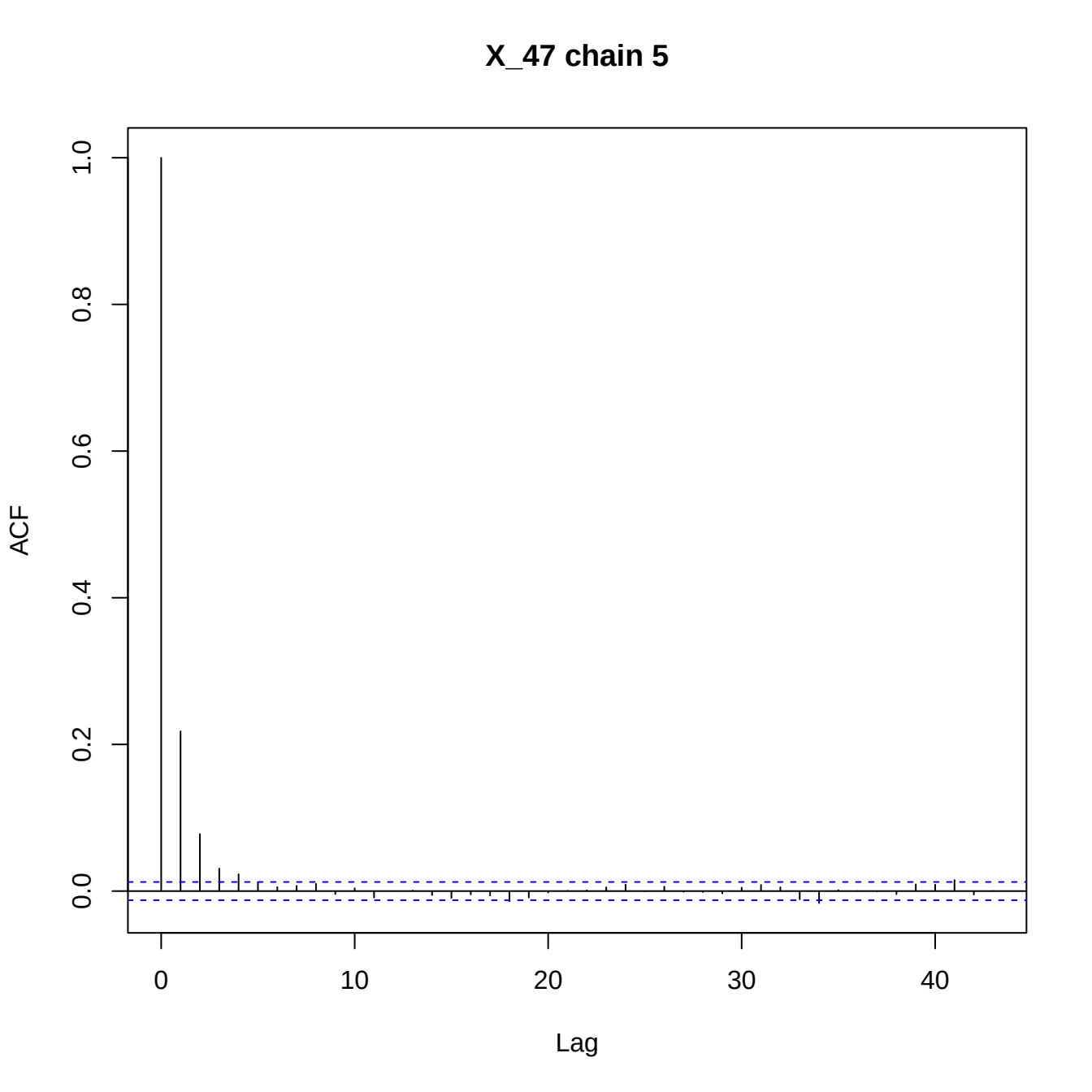
Lag


X_47 chain 5
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1.0
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0.0
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20
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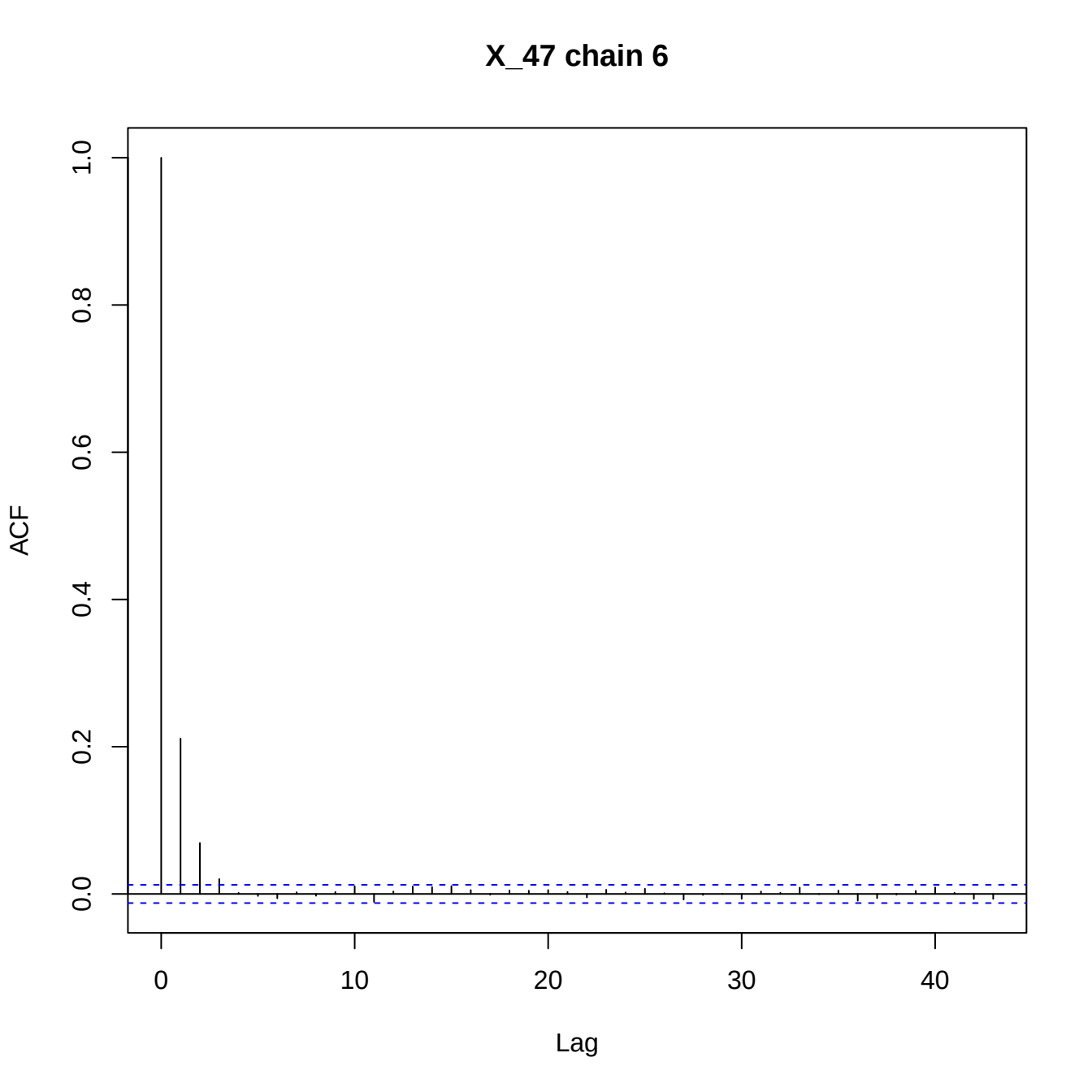
Lag


X_47 chain 6
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1.0
0.8
0.6
0.4
0.2
0.0
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20
30
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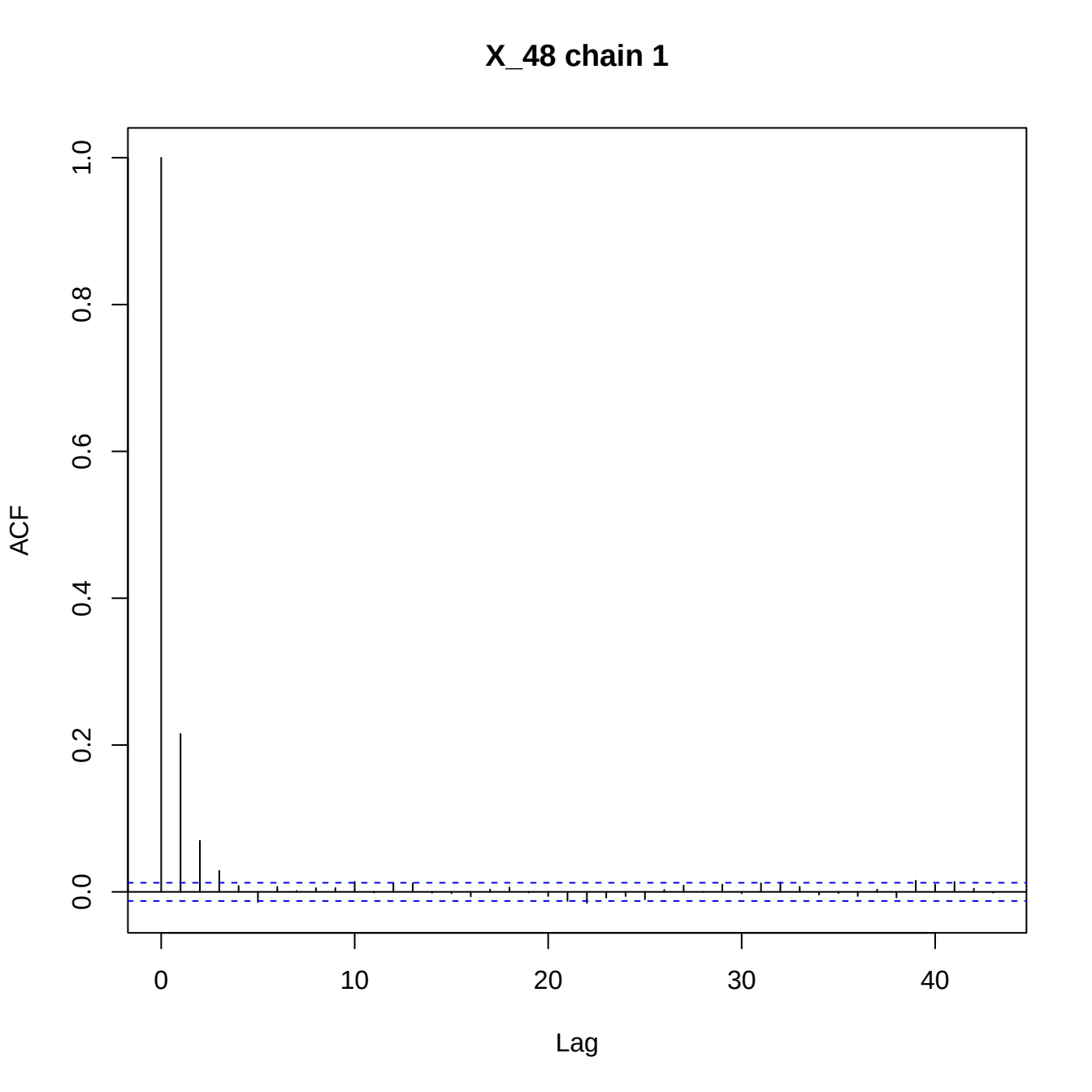
Lag


X_48 chain 1
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1.0
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0.6
0.4
0.2
0.0
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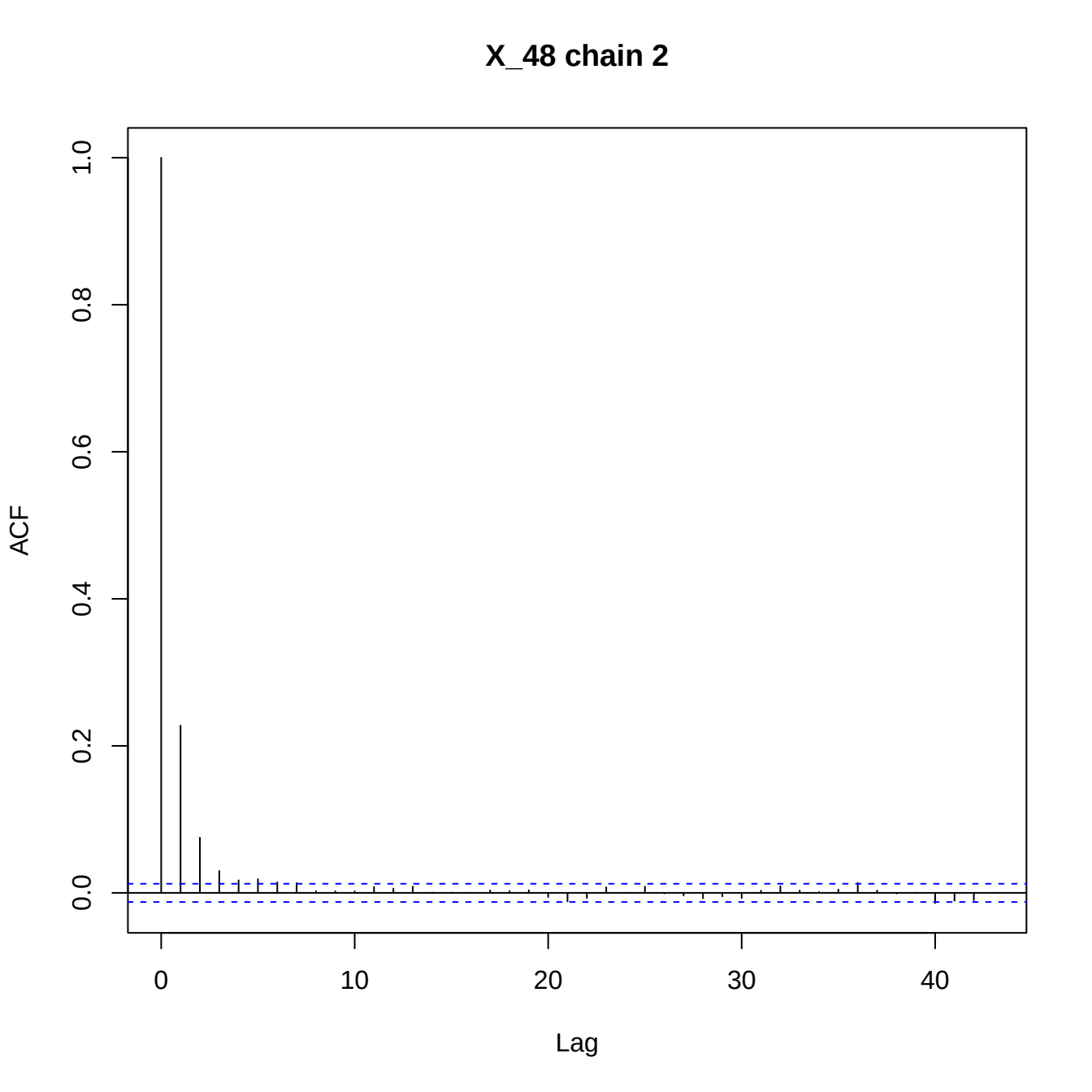
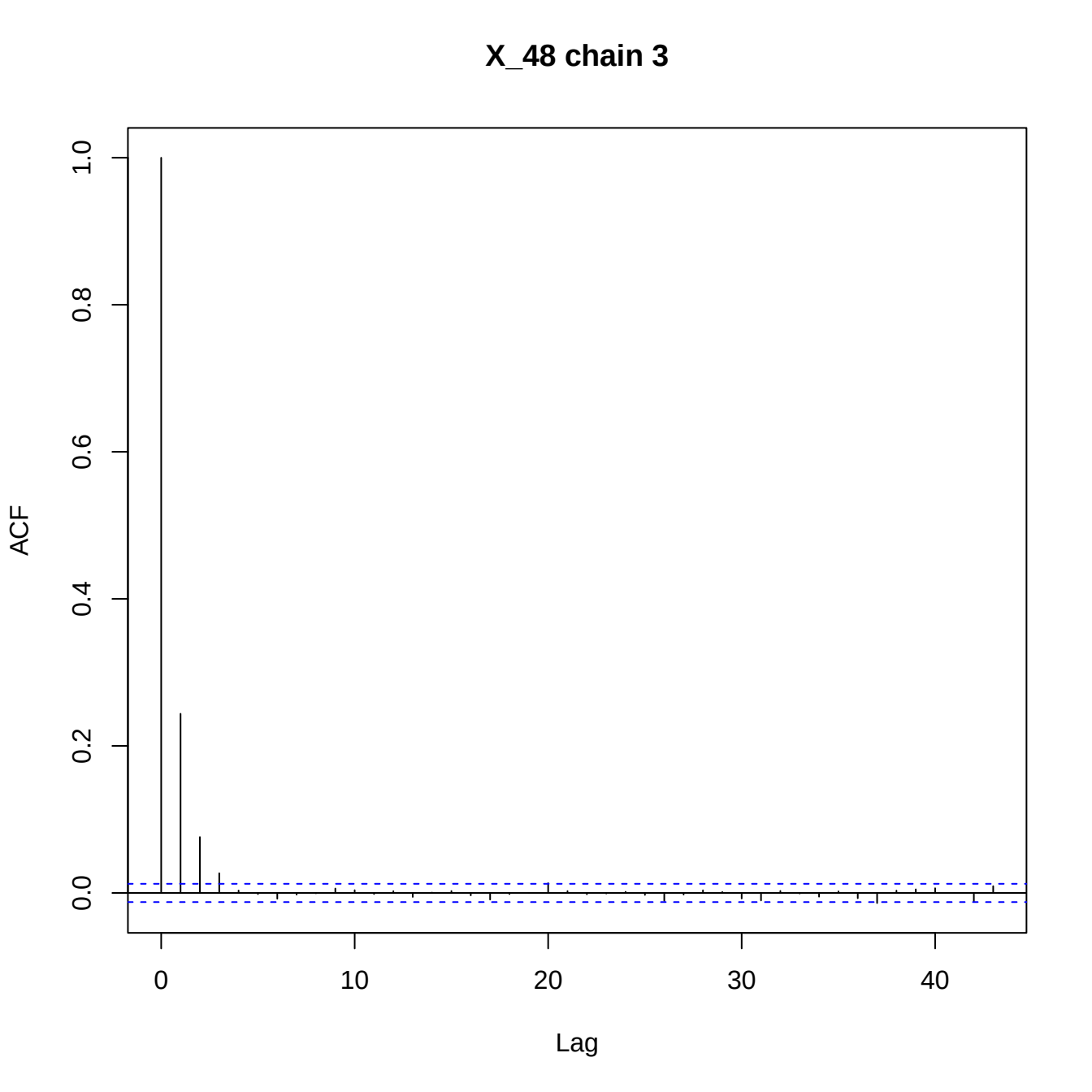
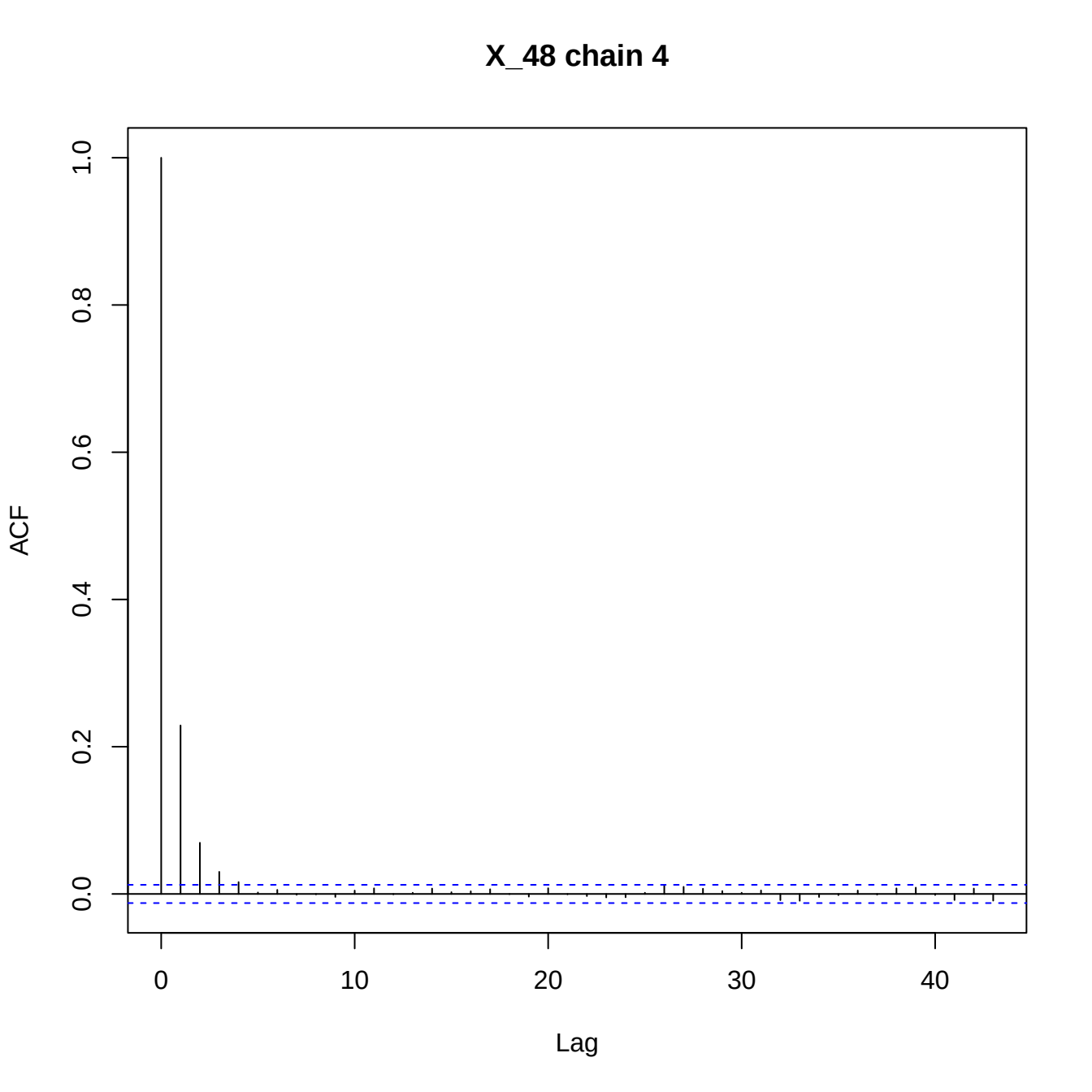
10
20
30
40
Lag


X_48 chain 2
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_48 chain 3
ACF
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
Lag


X_48 chain 4
ACF
1.0
0.8
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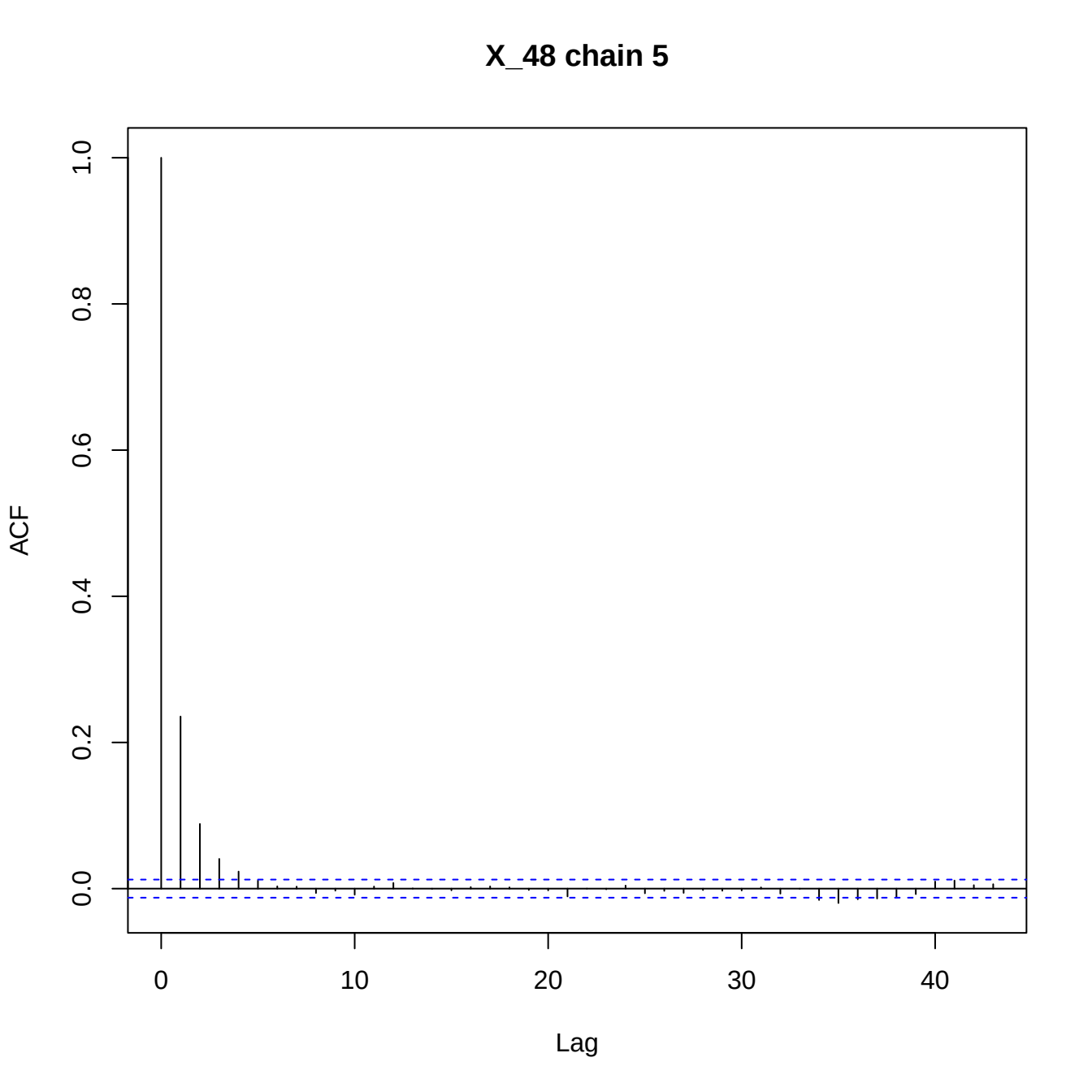
Lag


X_48 chain 5
ACF
1.0
0.8
0.6
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20
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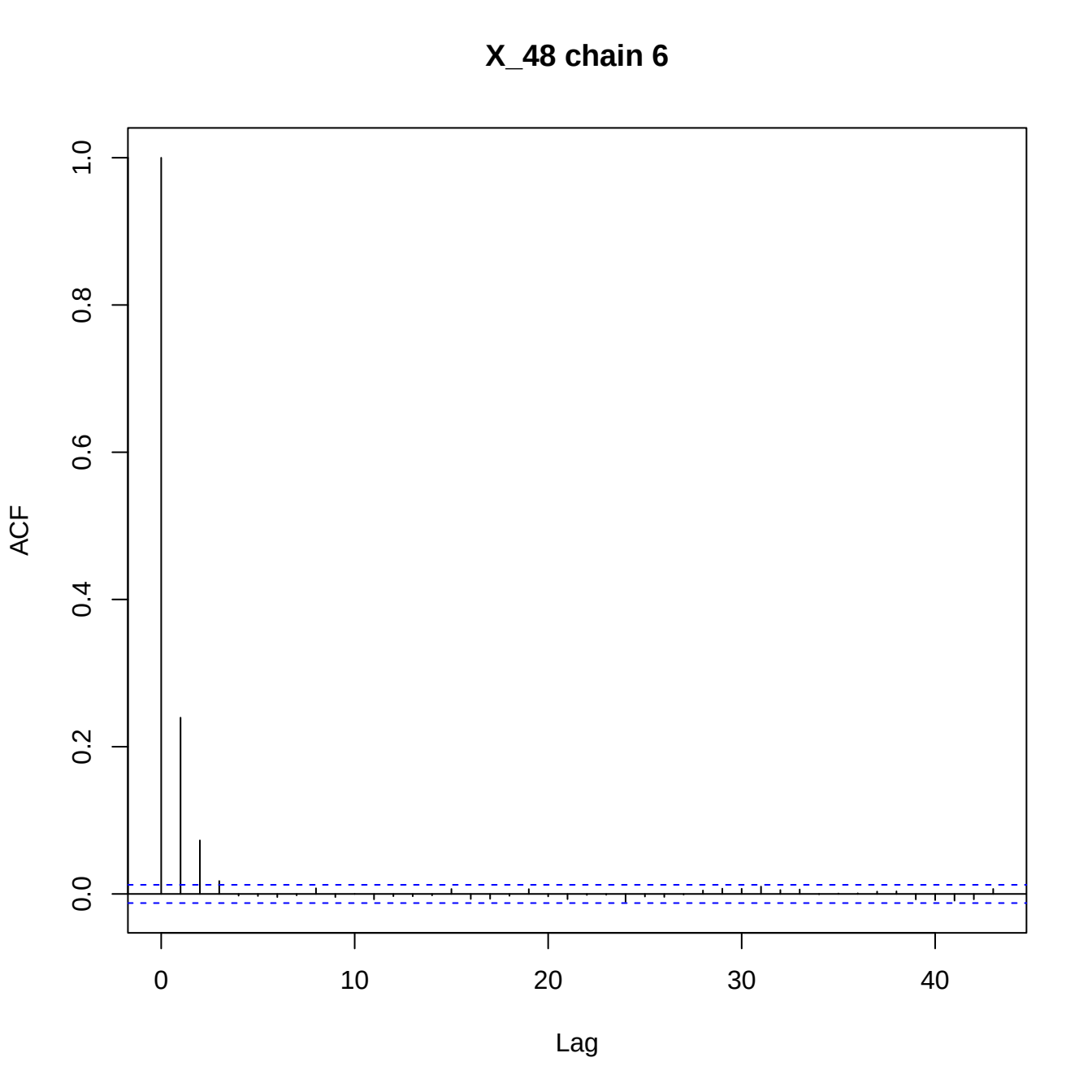
Lag


X_48 chain 6
ACF
1.0
0.8
0.6
0.4
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0.0
0
10
20
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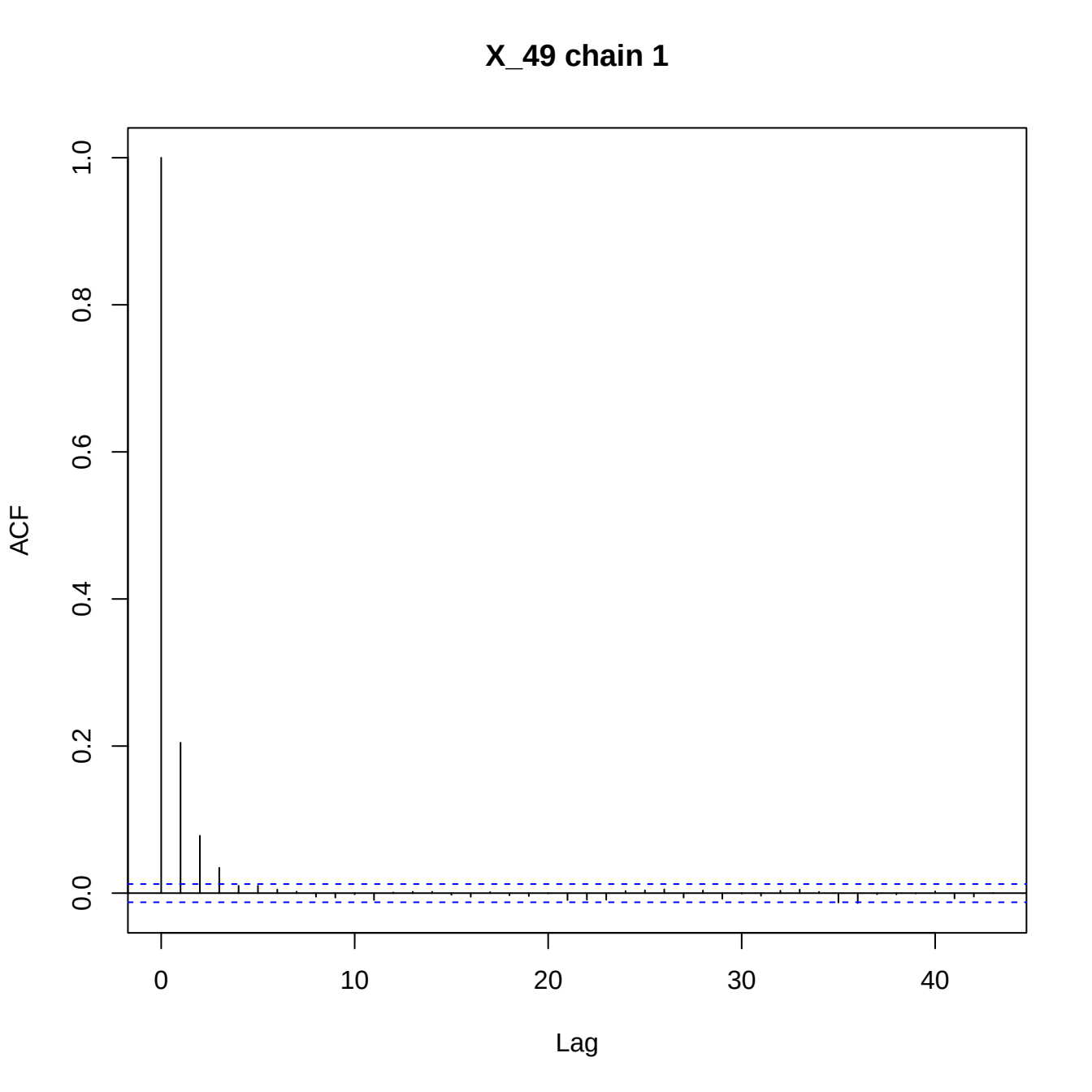
Lag


X_49 chain 1
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1.0
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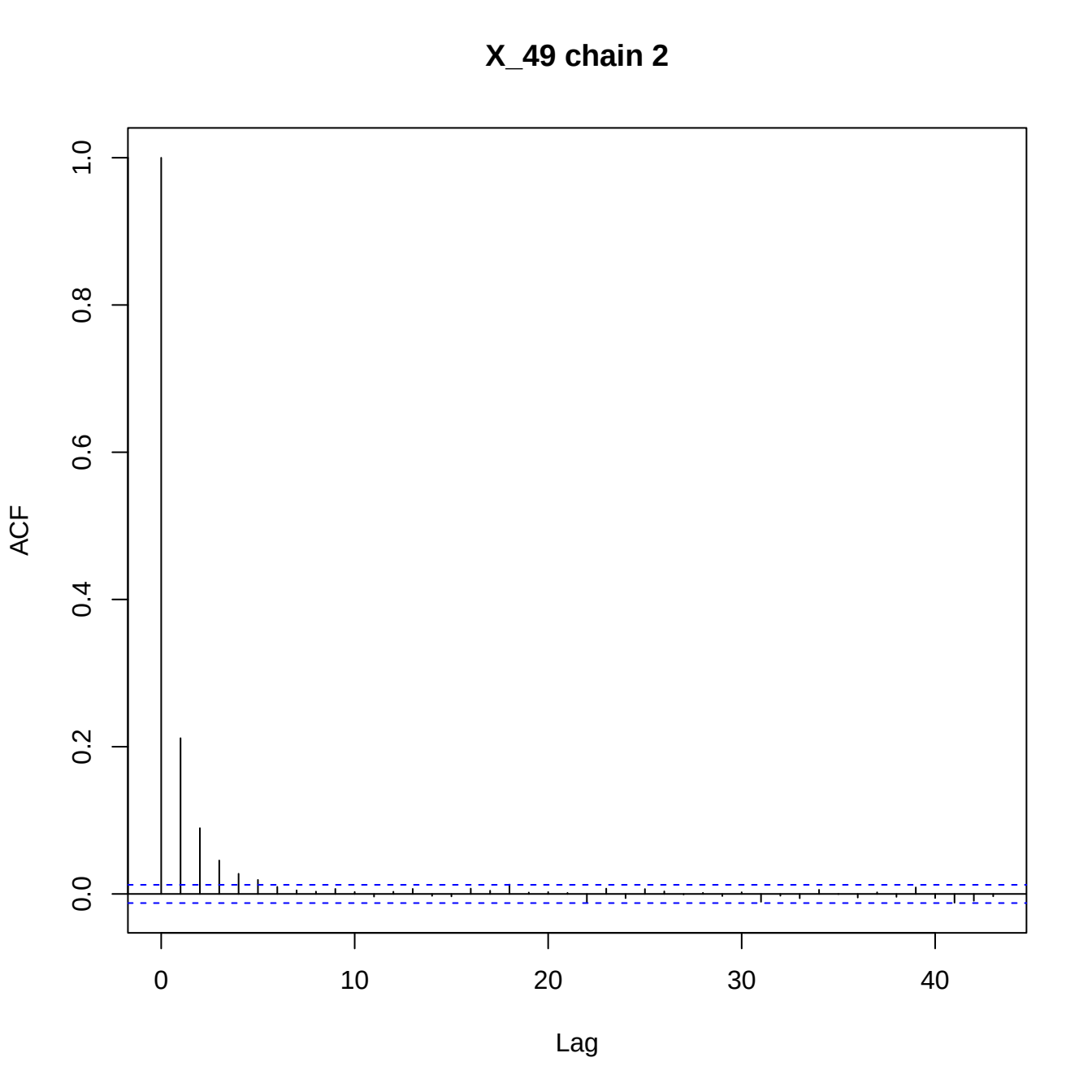
Lag


X_49 chain 2
ACF
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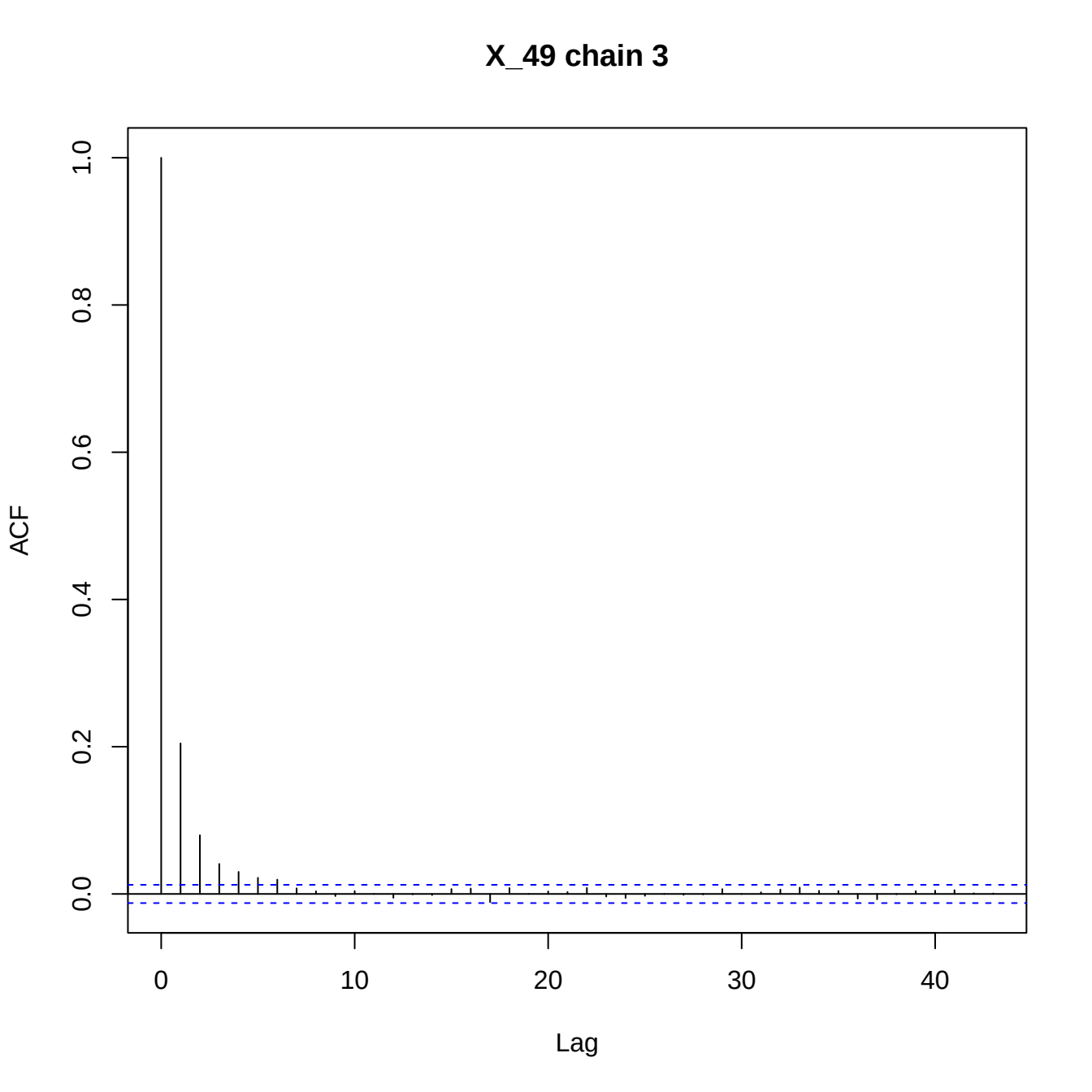
Lag


X_49 chain 3
ACF
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20
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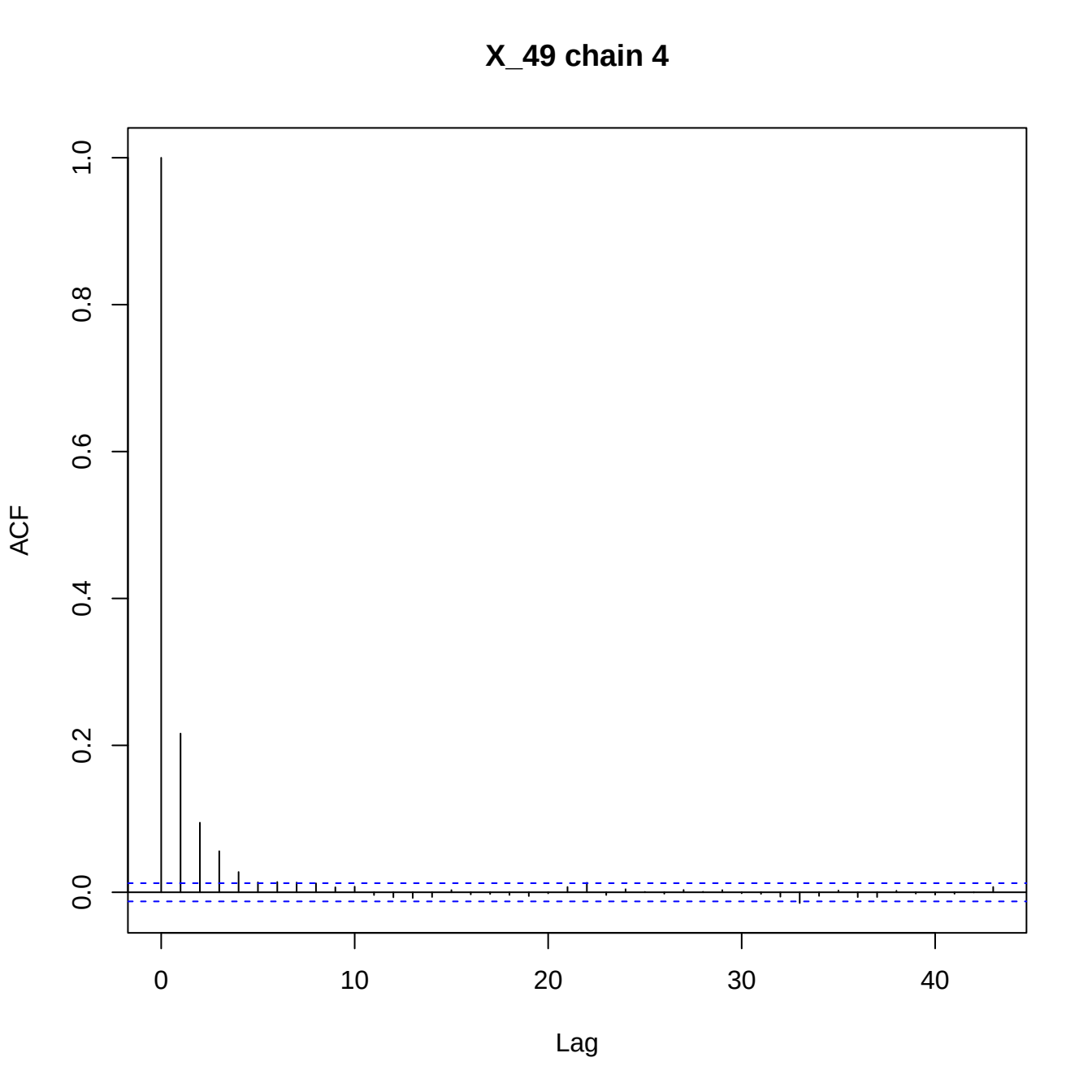
Lag


X_49 chain 4
ACF
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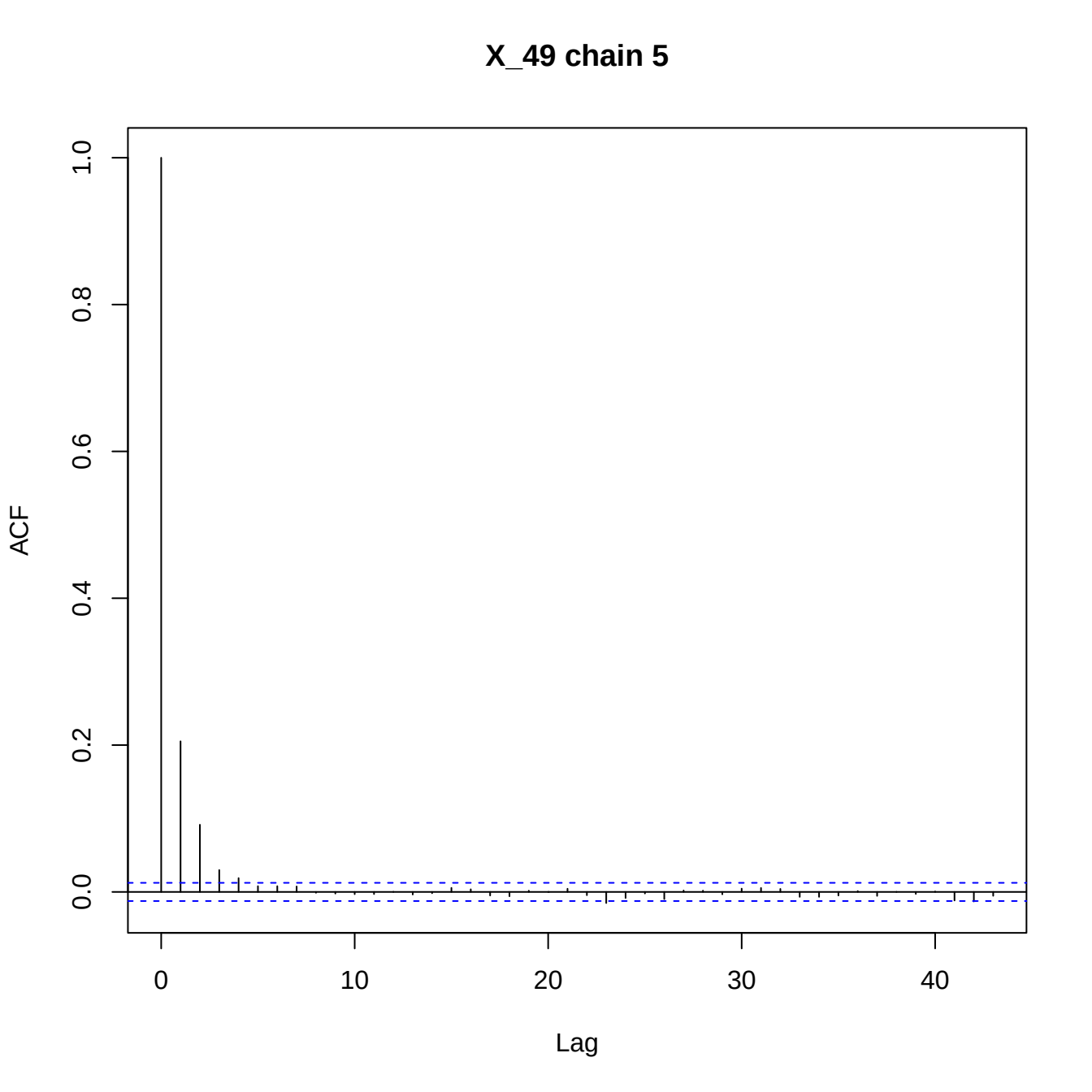
Lag


X_49 chain 5
ACF
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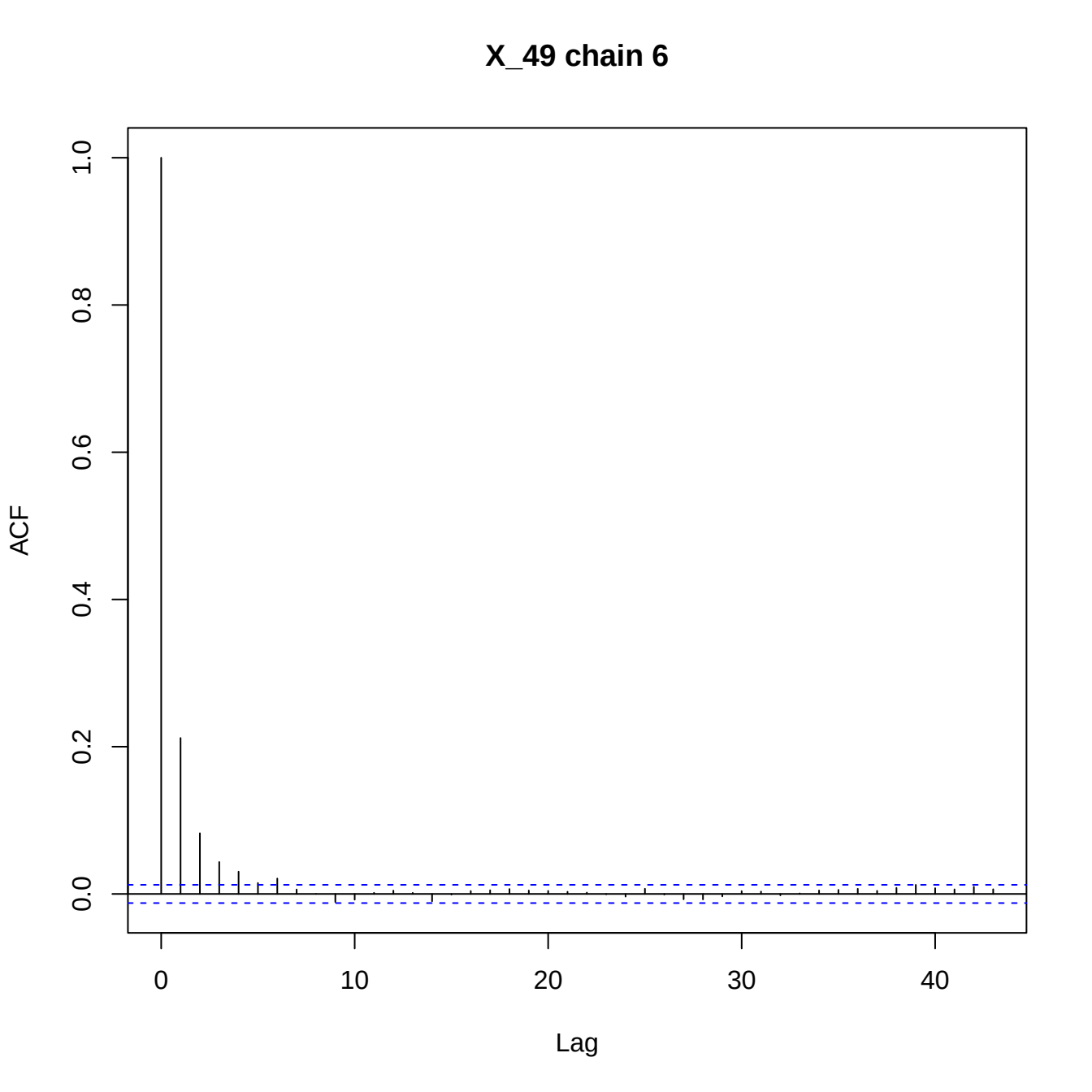
Lag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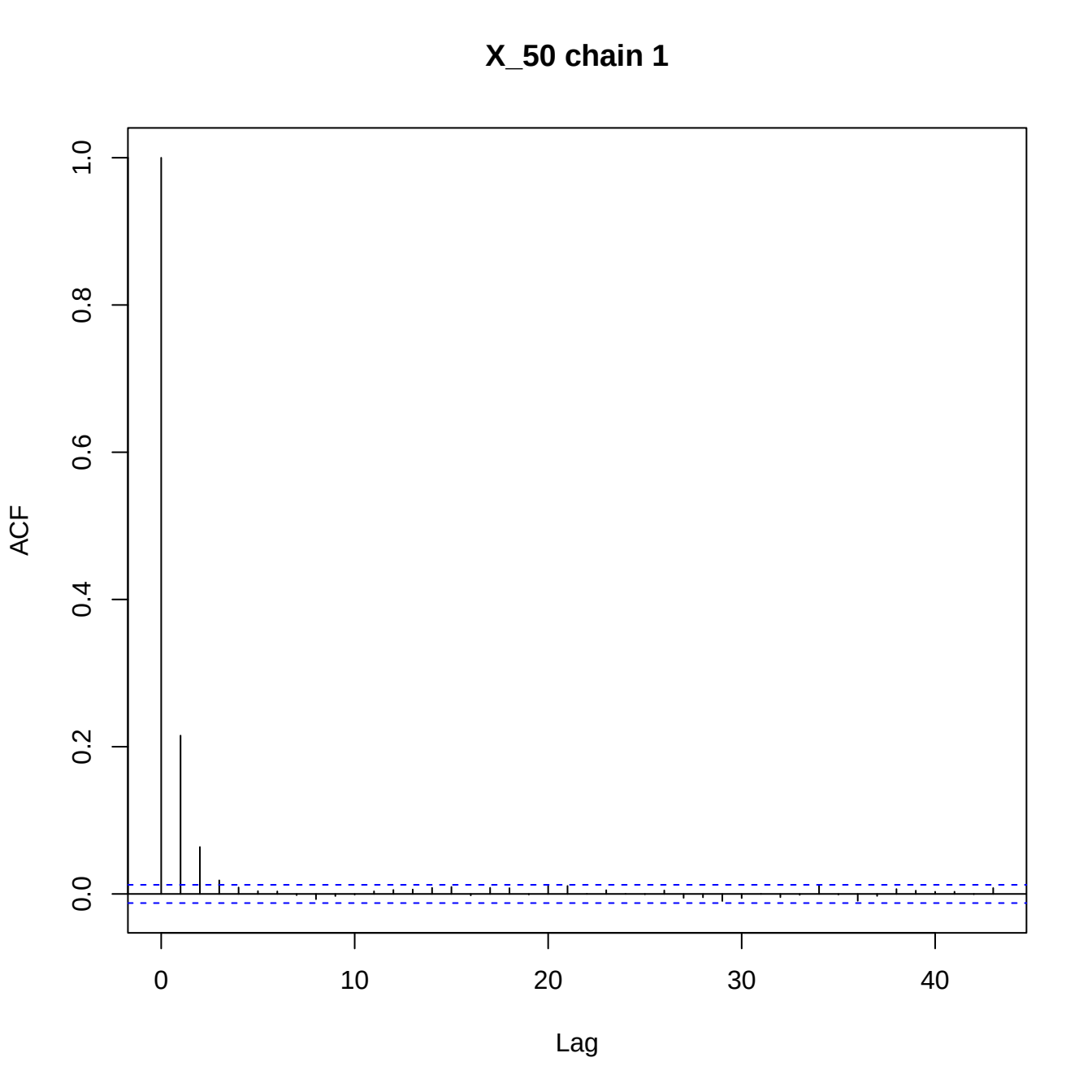
Lag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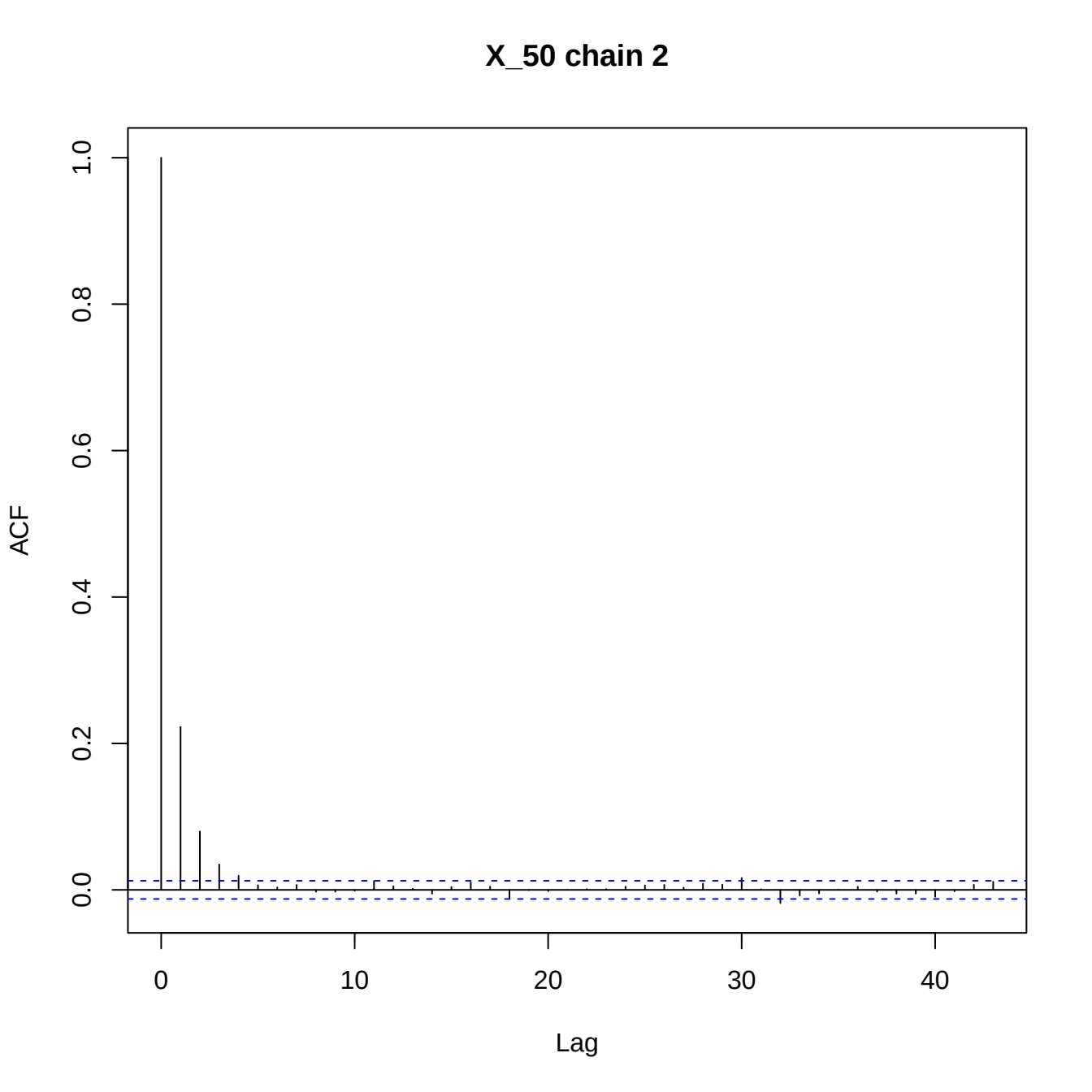
Lag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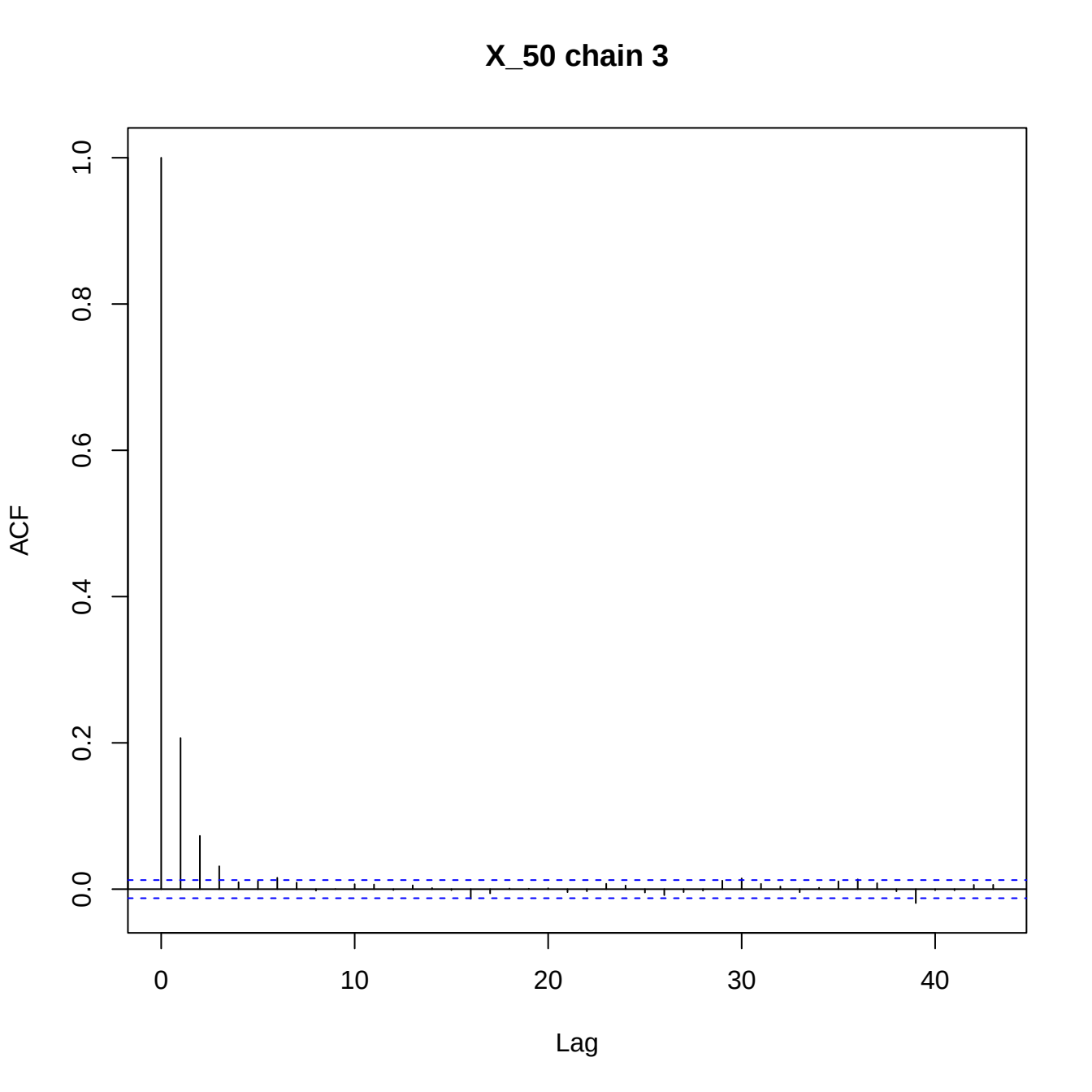
Lag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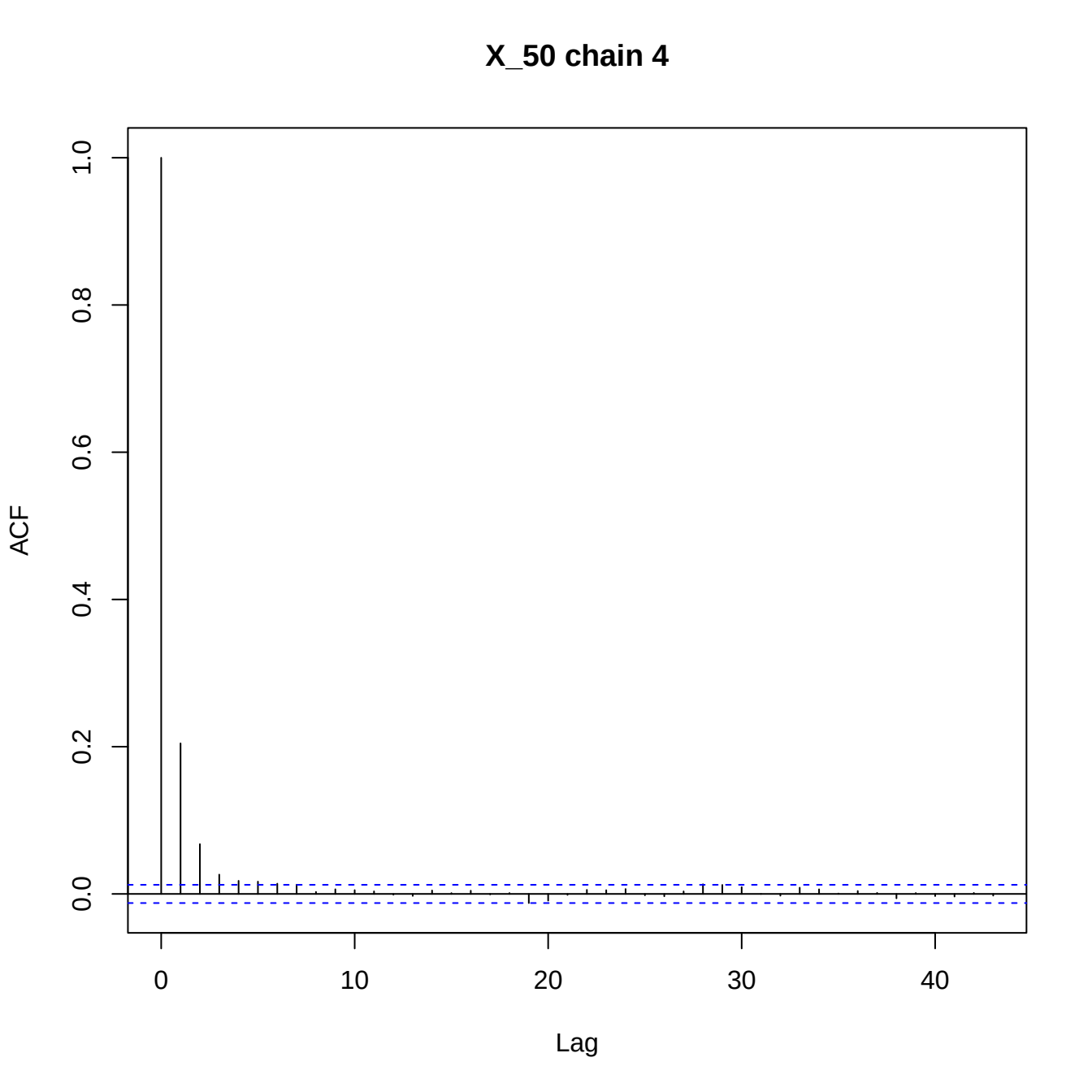
Lag


X_50 chain 4
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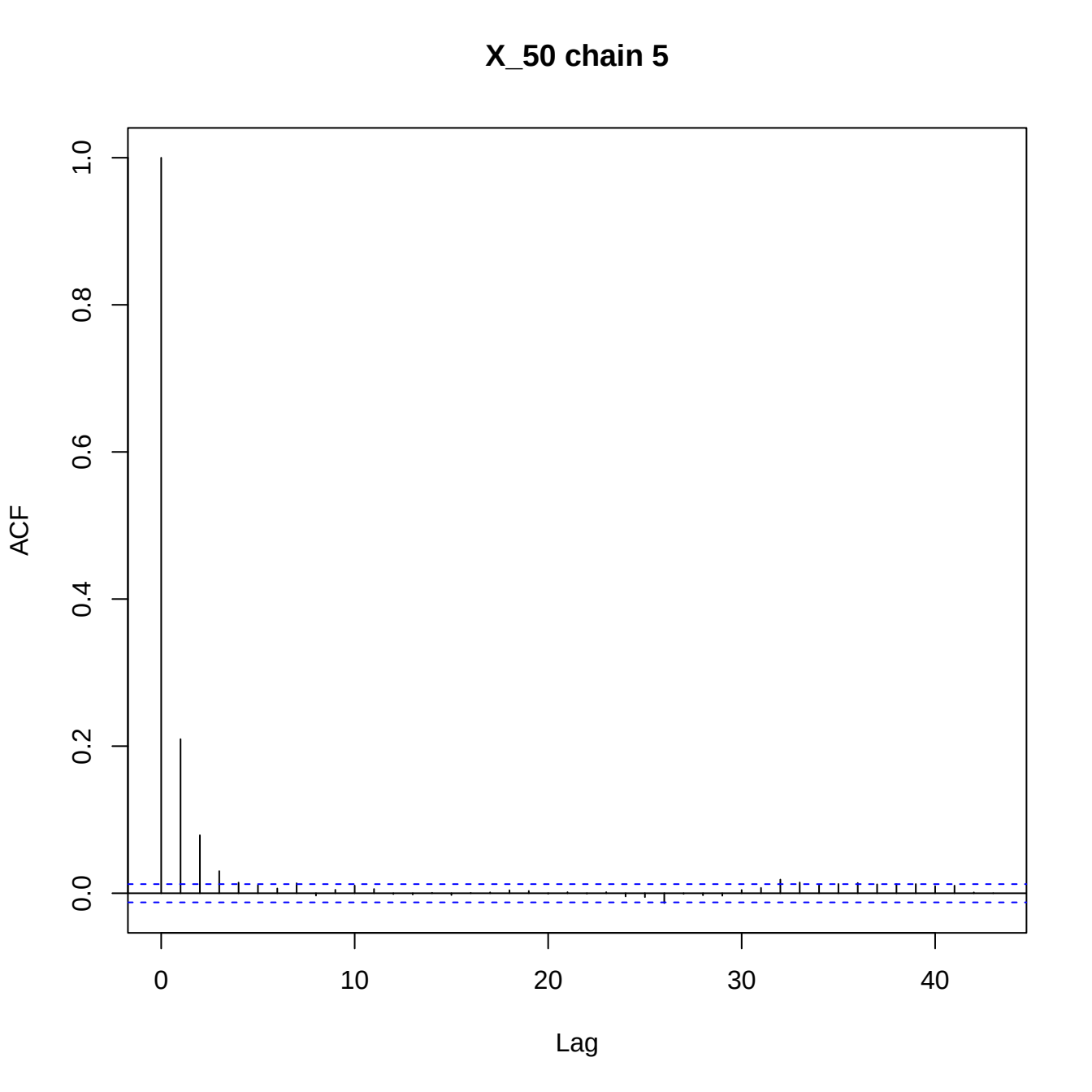
Lag


X_50 chain 5
ACF
1.0
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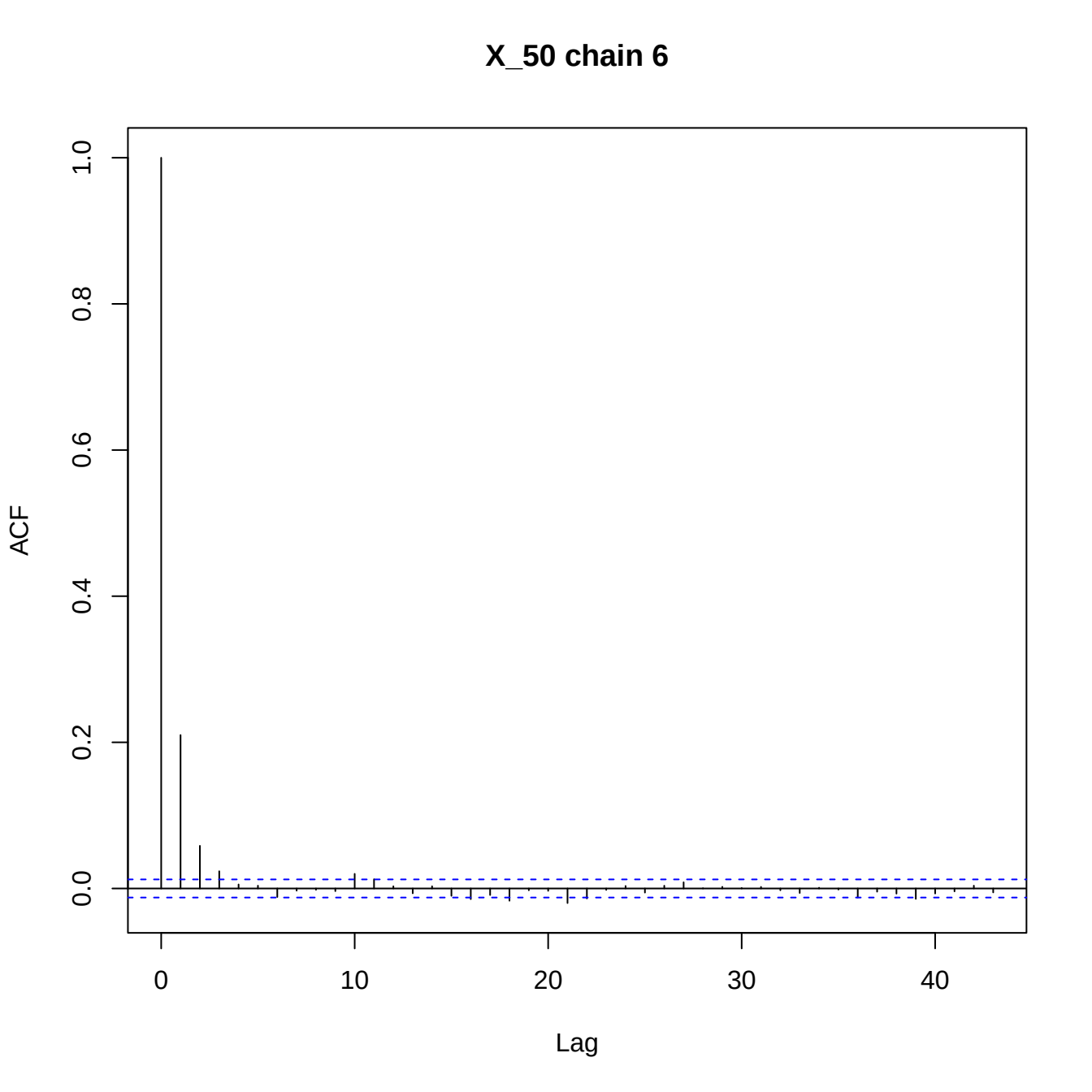
Lag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ACF
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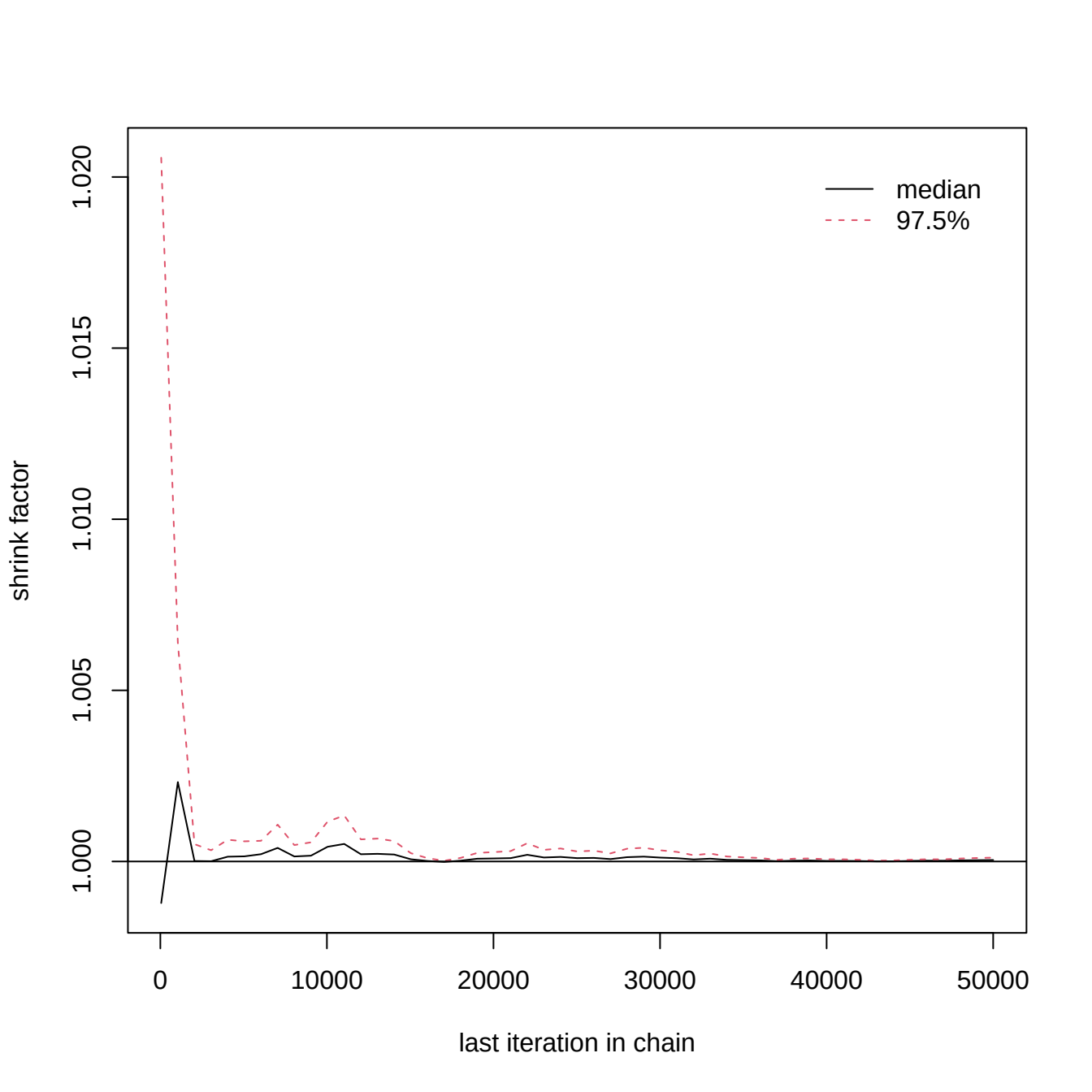
40
Lag


median
97.5%
shrink factor
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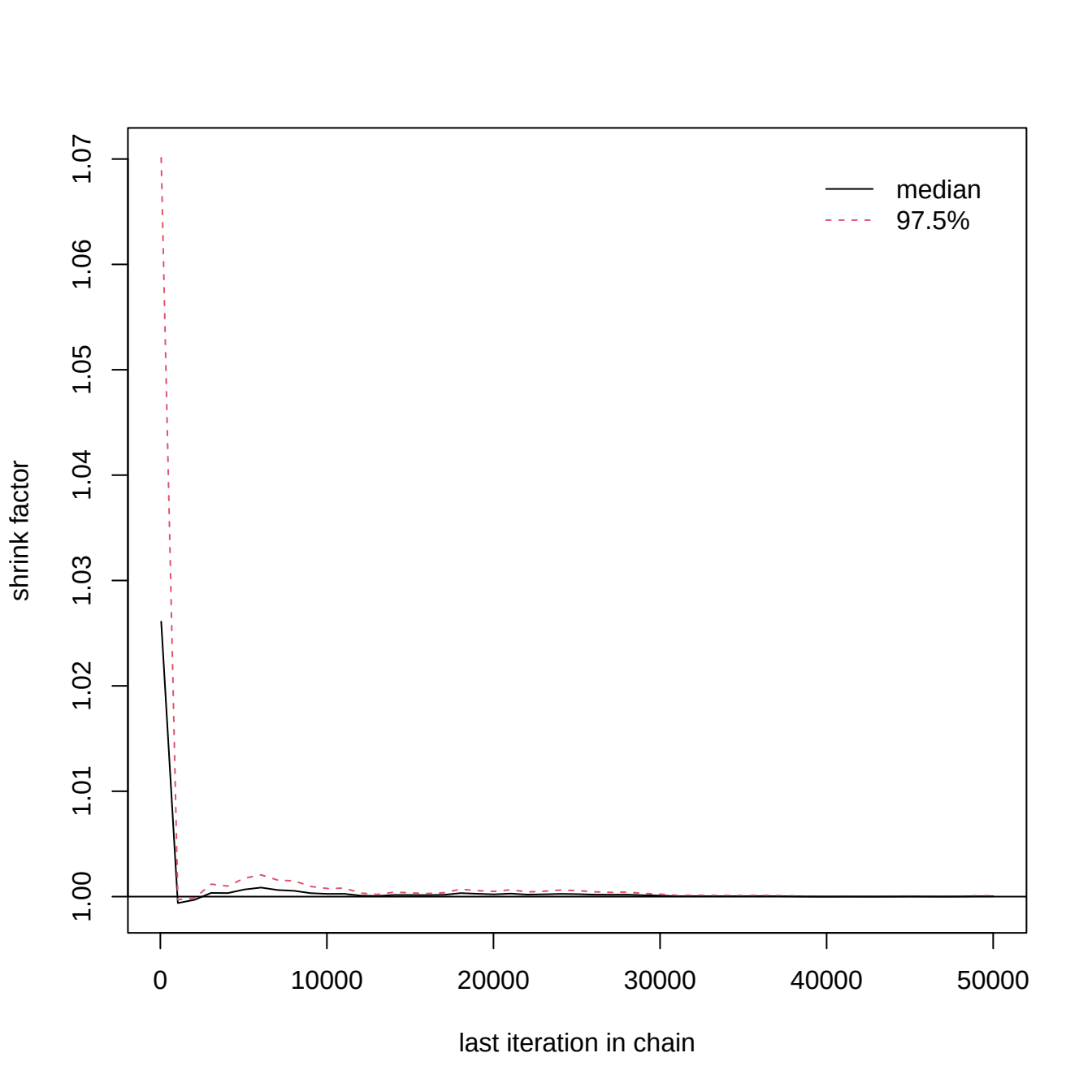
1.005
1.010
1.015
1.020
0
10000
20000
30000
40000
50000
last iteration in chain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97.5%
shrink factor
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1.04
1.05
1.06
1.07
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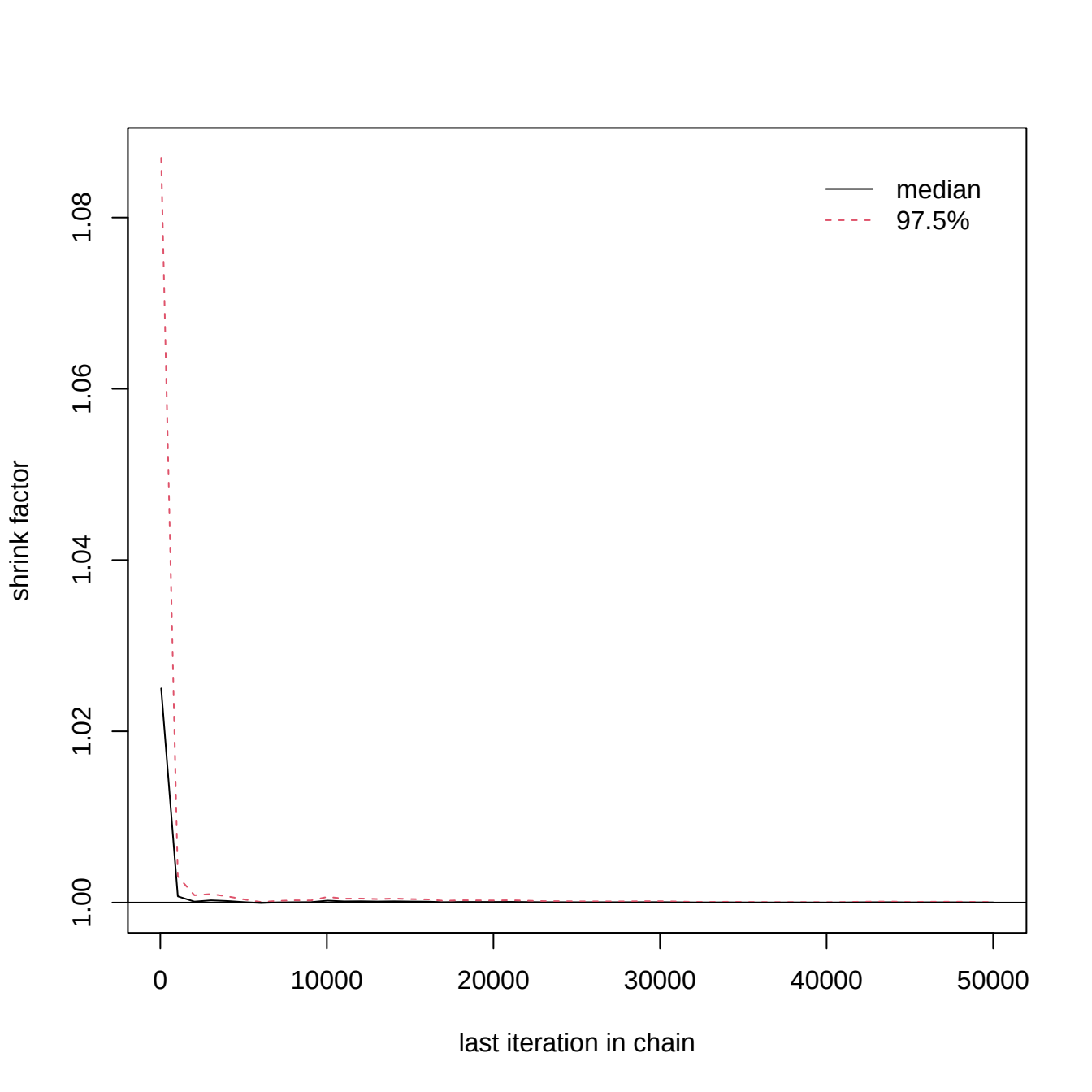
50000
last iteration in chain


median
97.5%
shrink factor
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1.02
1.04
1.06
1.08
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10000
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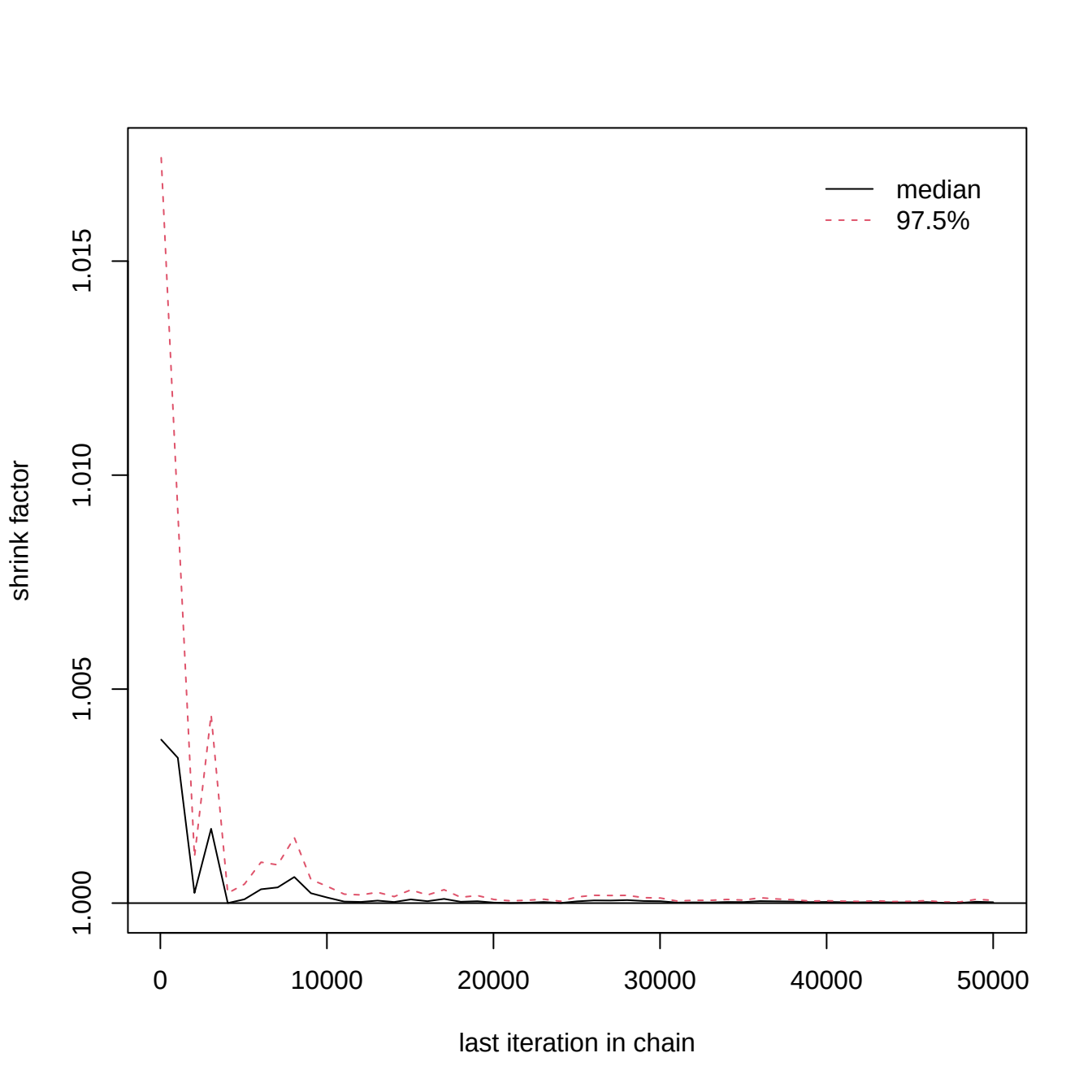
30000
40000
50000
last iteration in chain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shrink factor
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1.015
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10000
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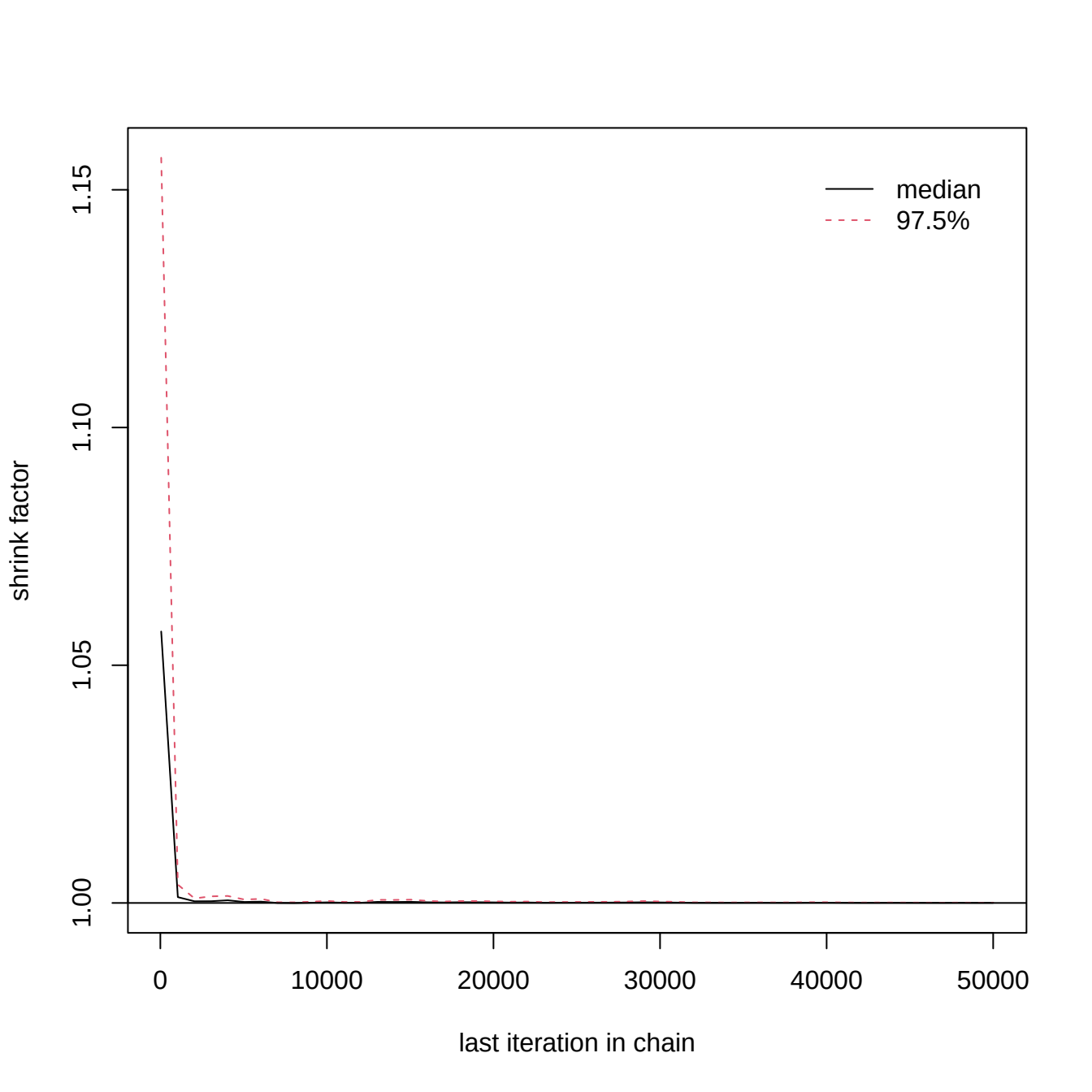
40000
50000
last iteration in chain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1.10
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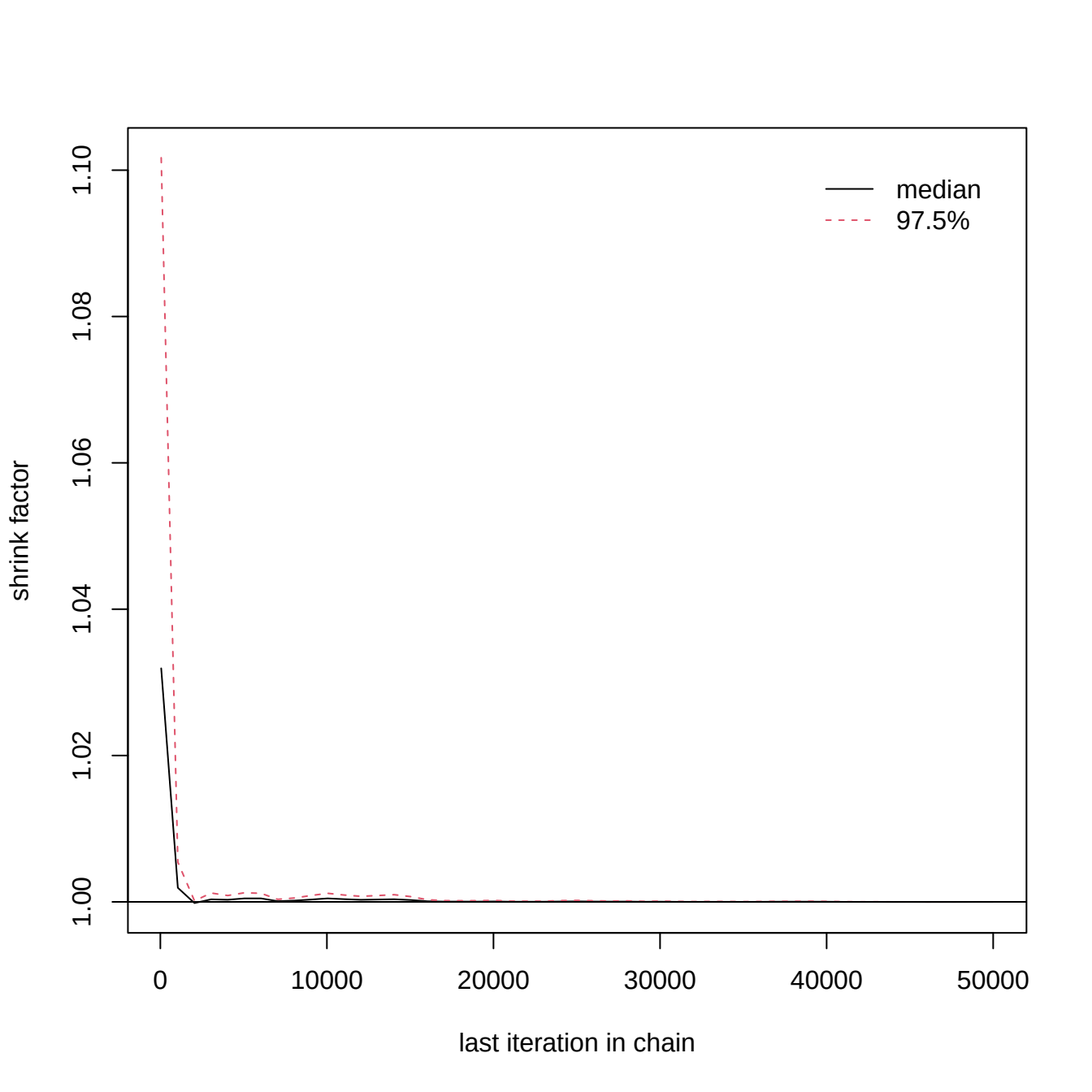
40000
50000
last iteration in chain


median
97.5%
shrink factor
1.00
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1.10
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10000
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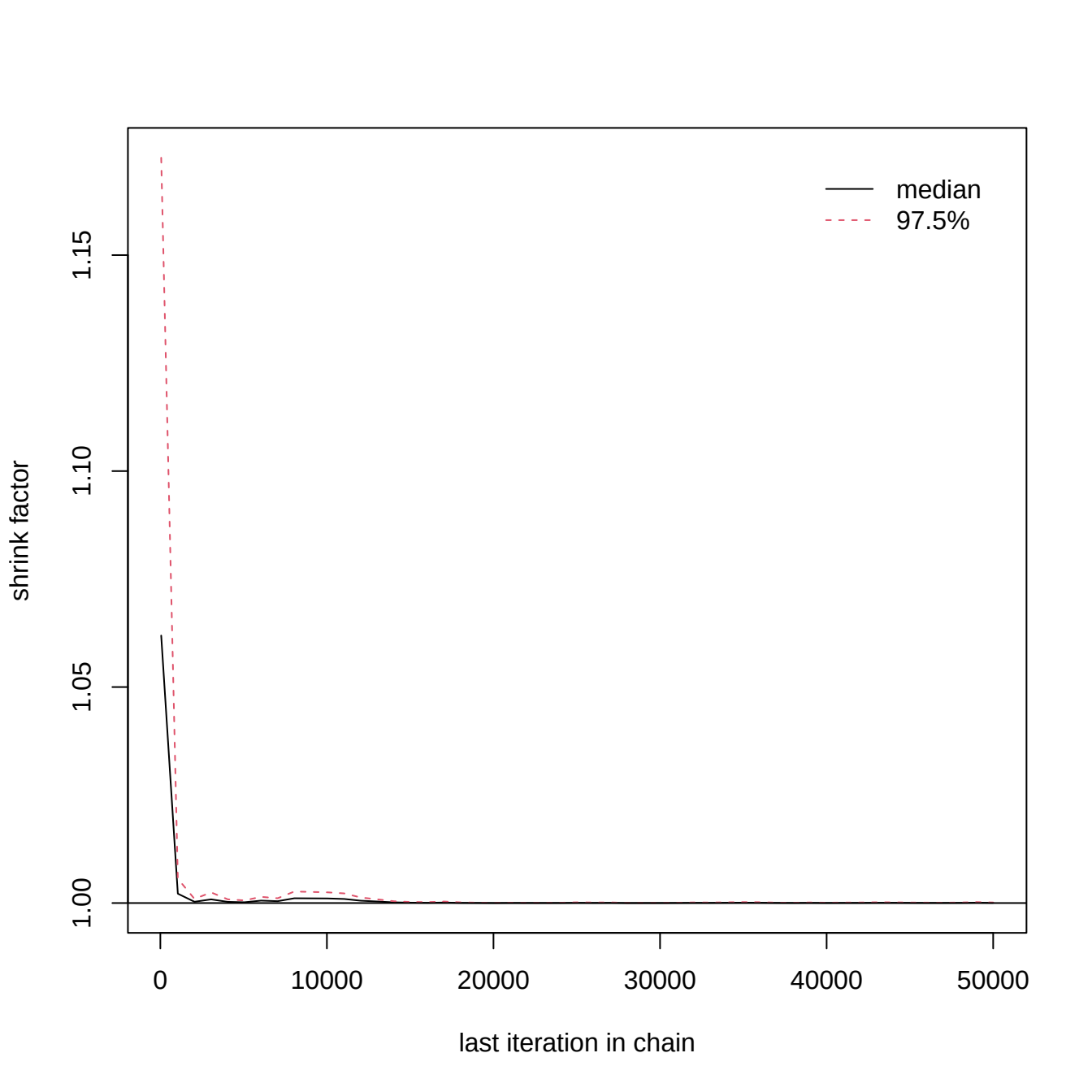
last iteration in chain


median
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shrink factor
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1.05
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1.15
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10000
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30000
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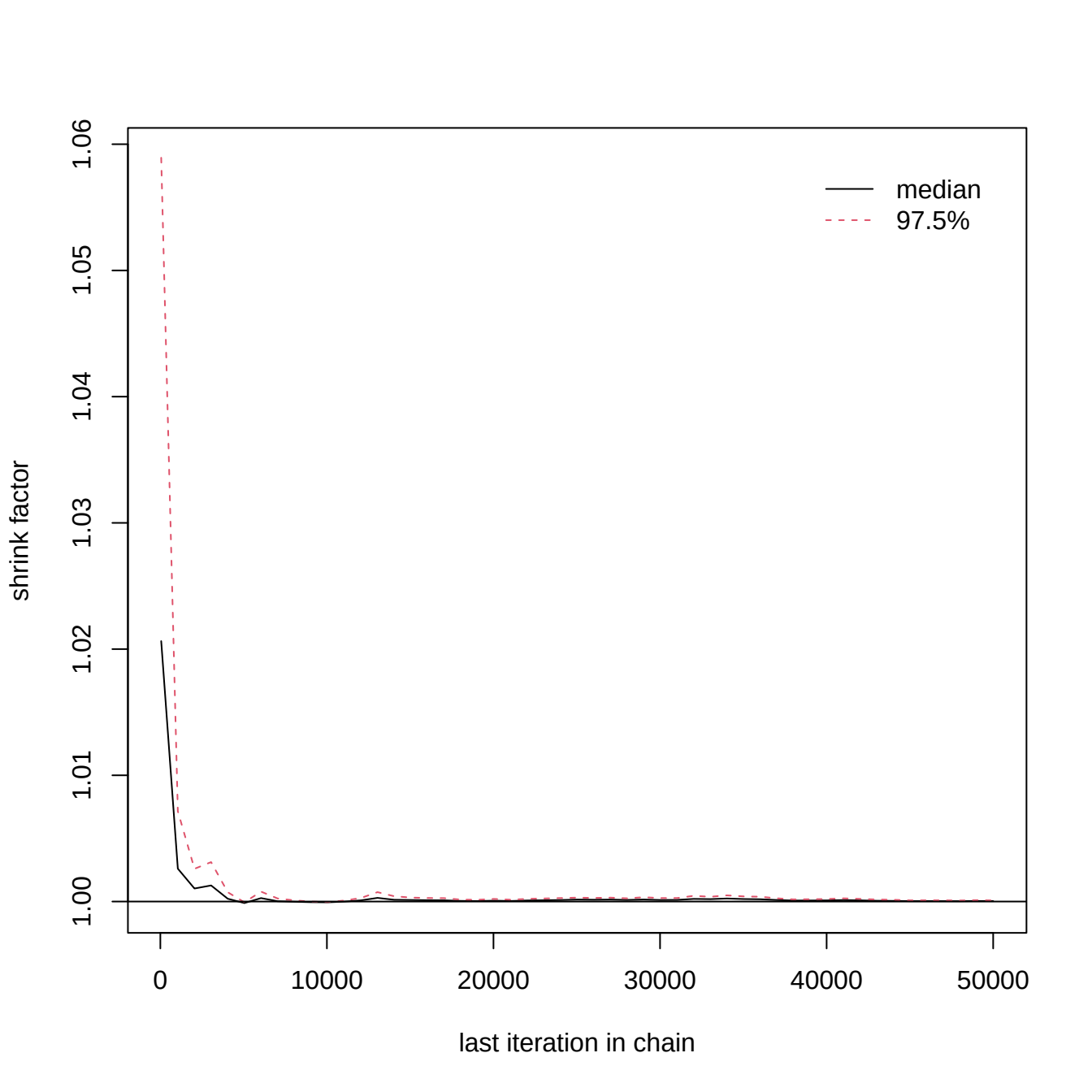
50000
last iteration in chain


median
97.5%
shrink factor
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1.01
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1.04
1.05
1.06
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10000
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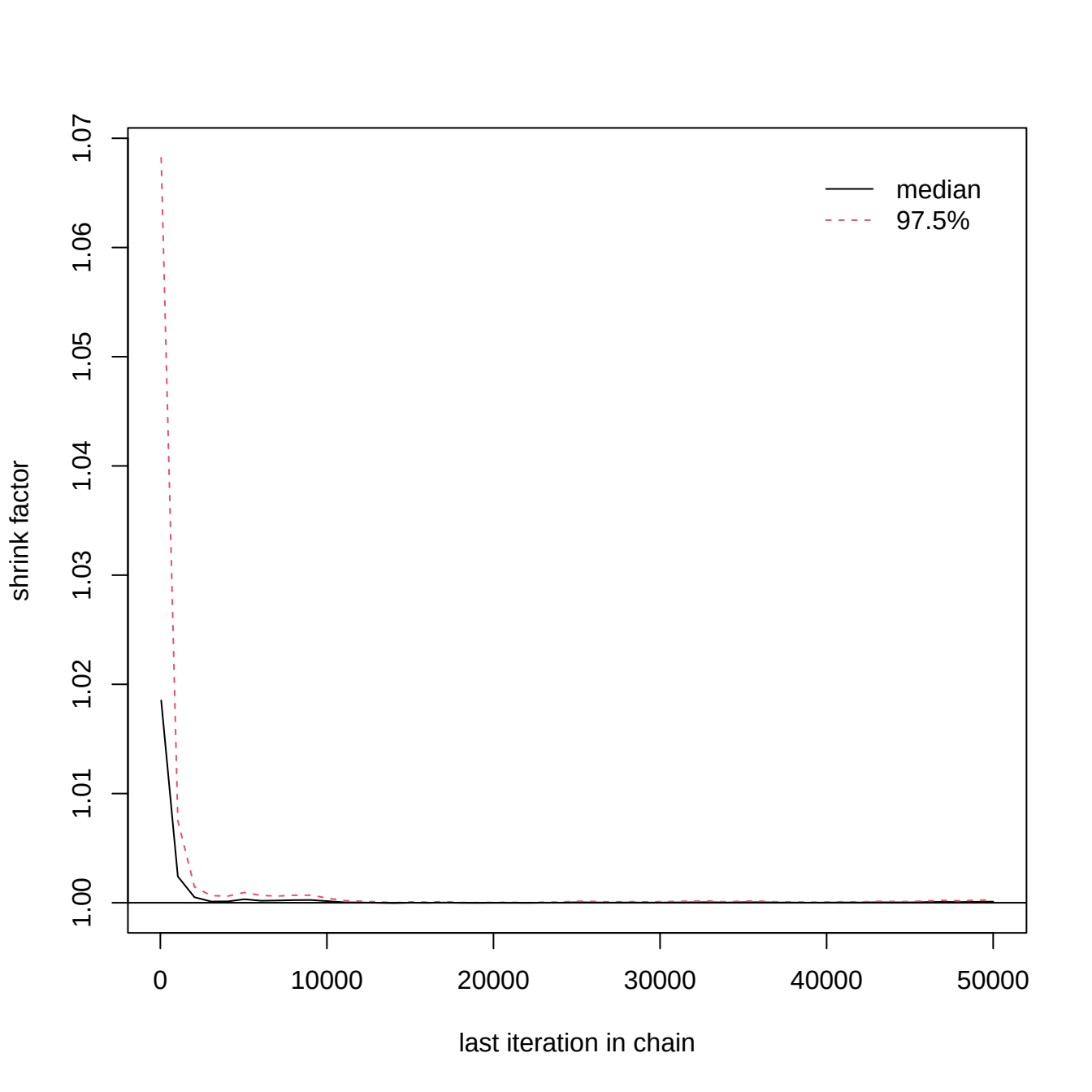
50000
last iteration in chain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97.5%
shrink factor
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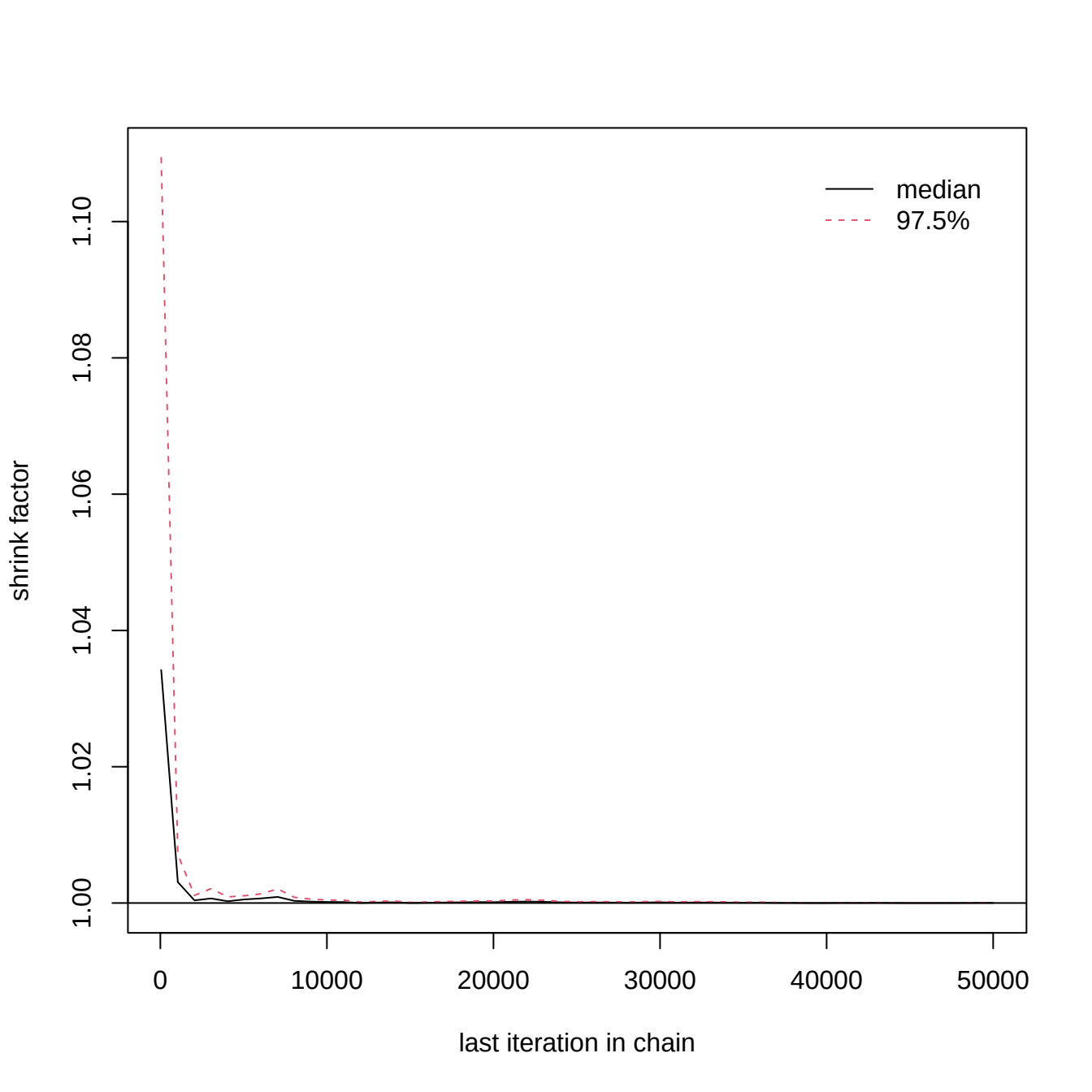
last iteration in chain


median
97.5%
shrink factor
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1.02
1.04
1.06
1.08
1.10
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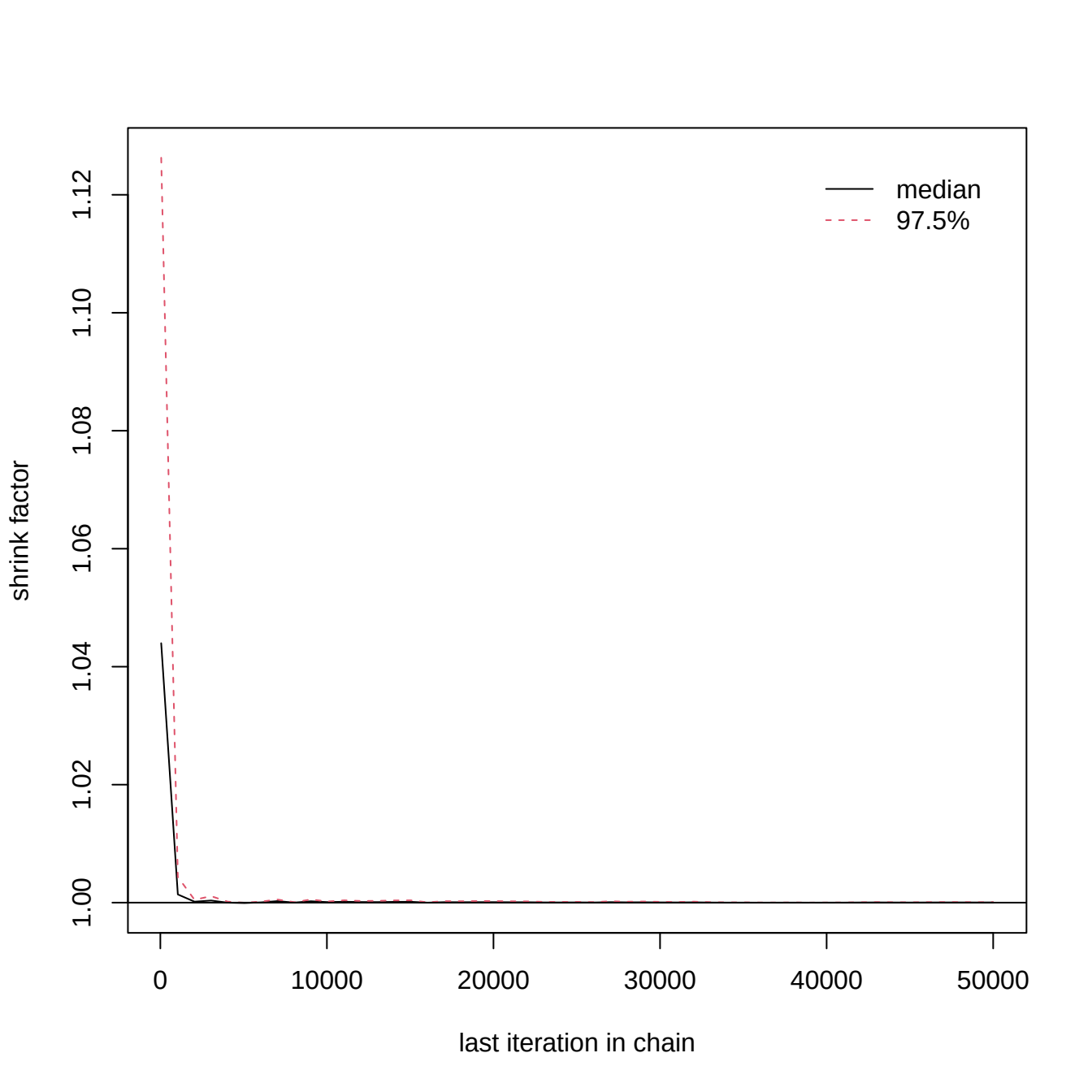
10000
20000
30000
40000
50000
last iteration in chain


median
97.5%
shrink factor
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1.08
1.10
1.12
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10000
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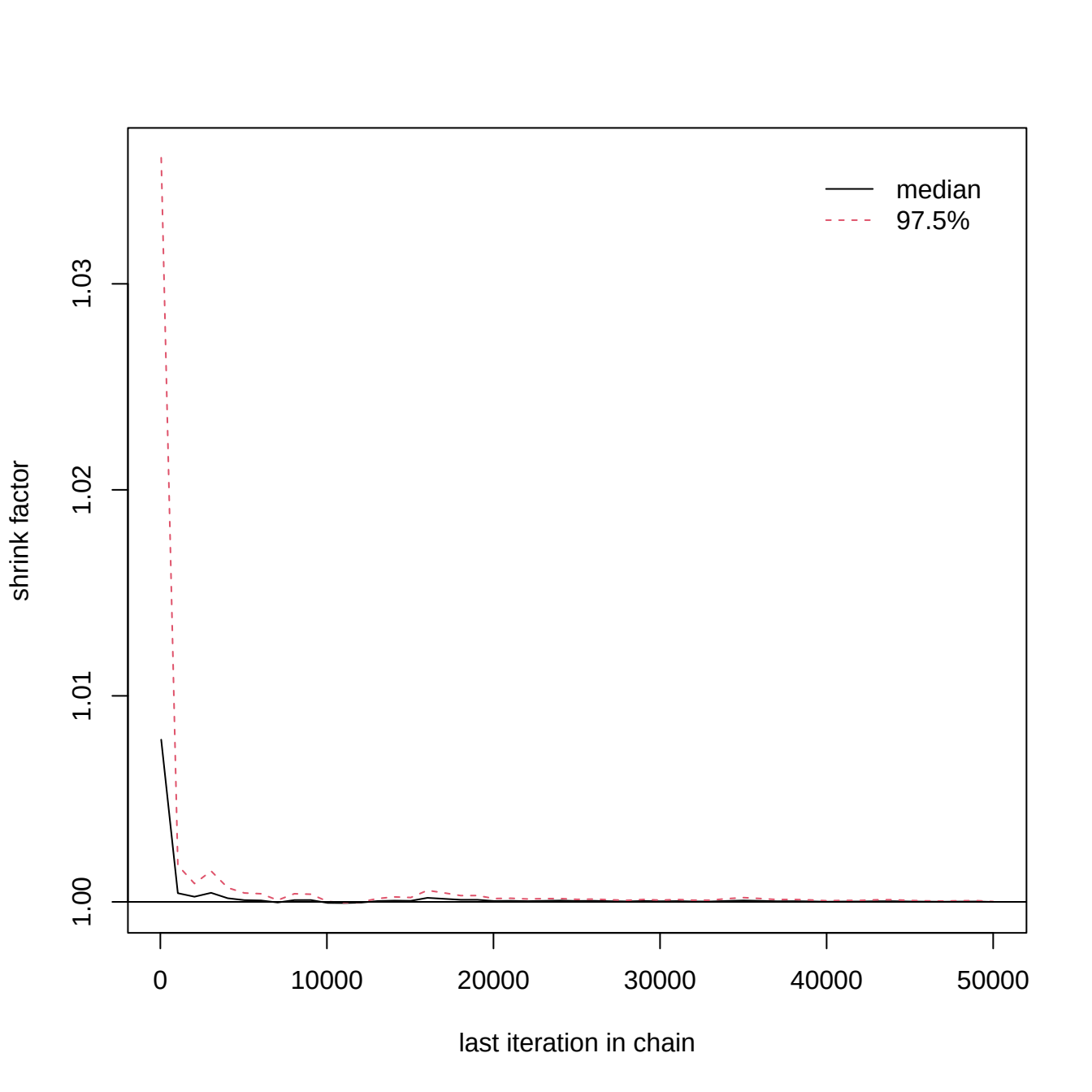
50000
last iteration in chain


median
97.5%
shrink factor
1.00
1.01
1.02
1.03
0
10000
20000
30000
40000
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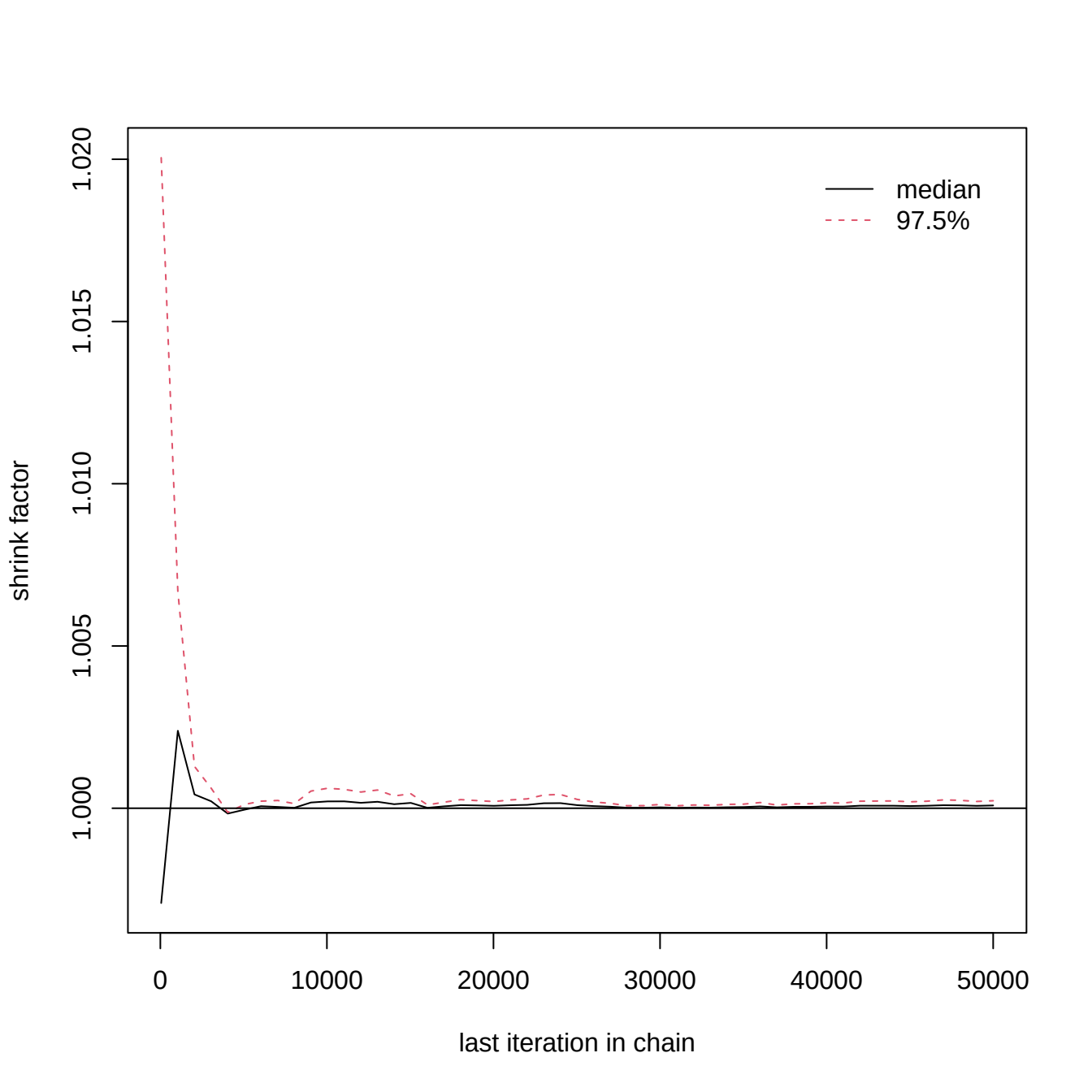
last iteration in chain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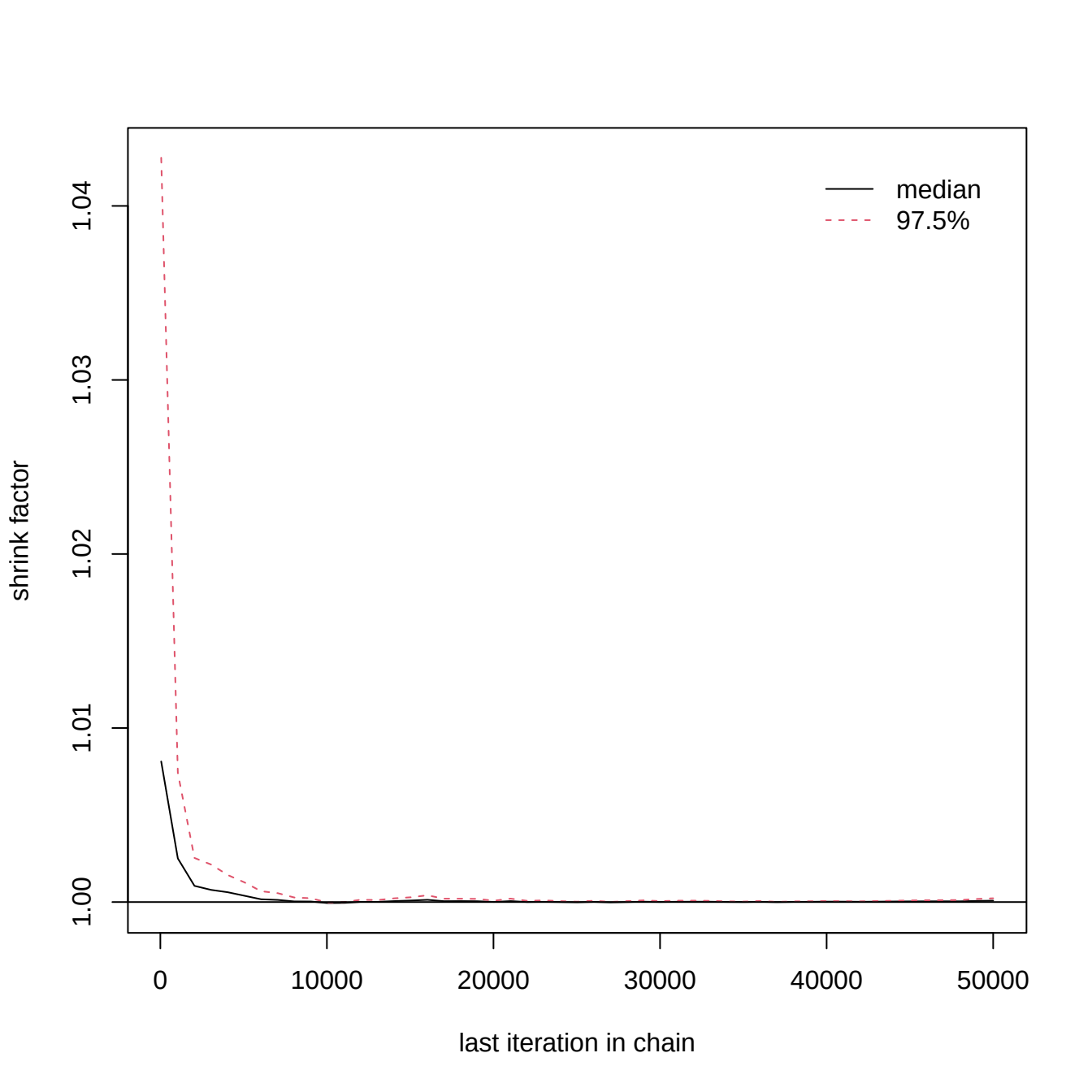
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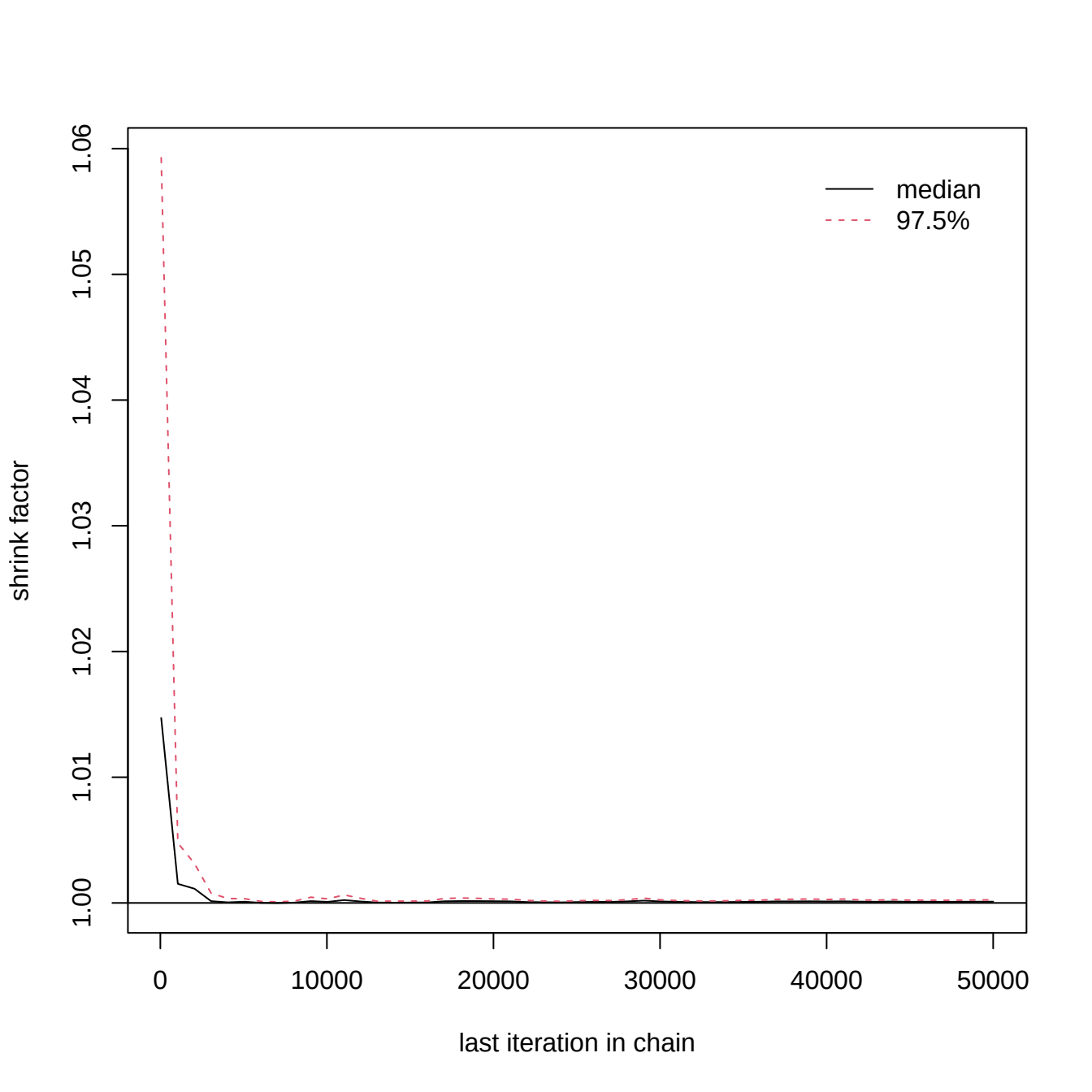
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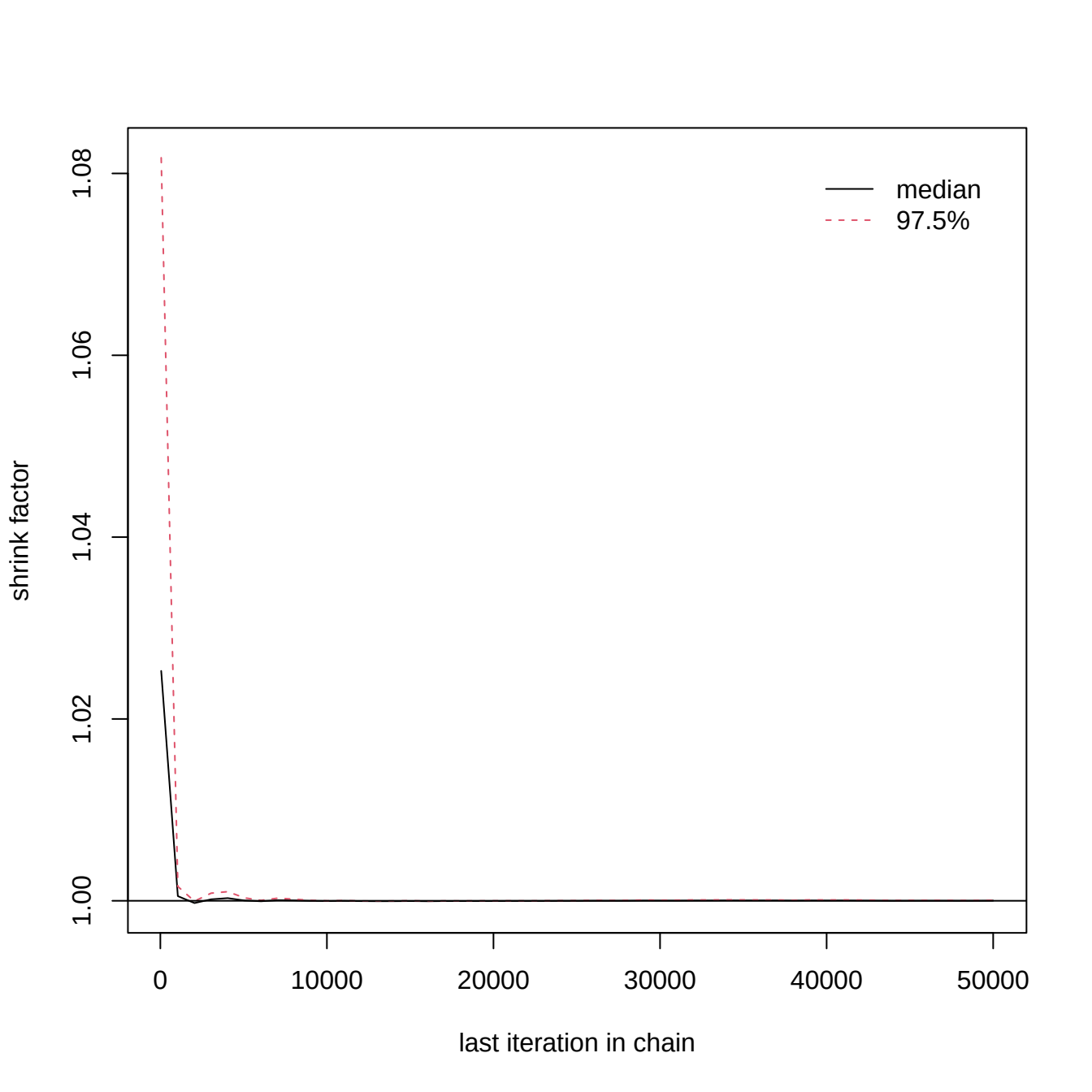
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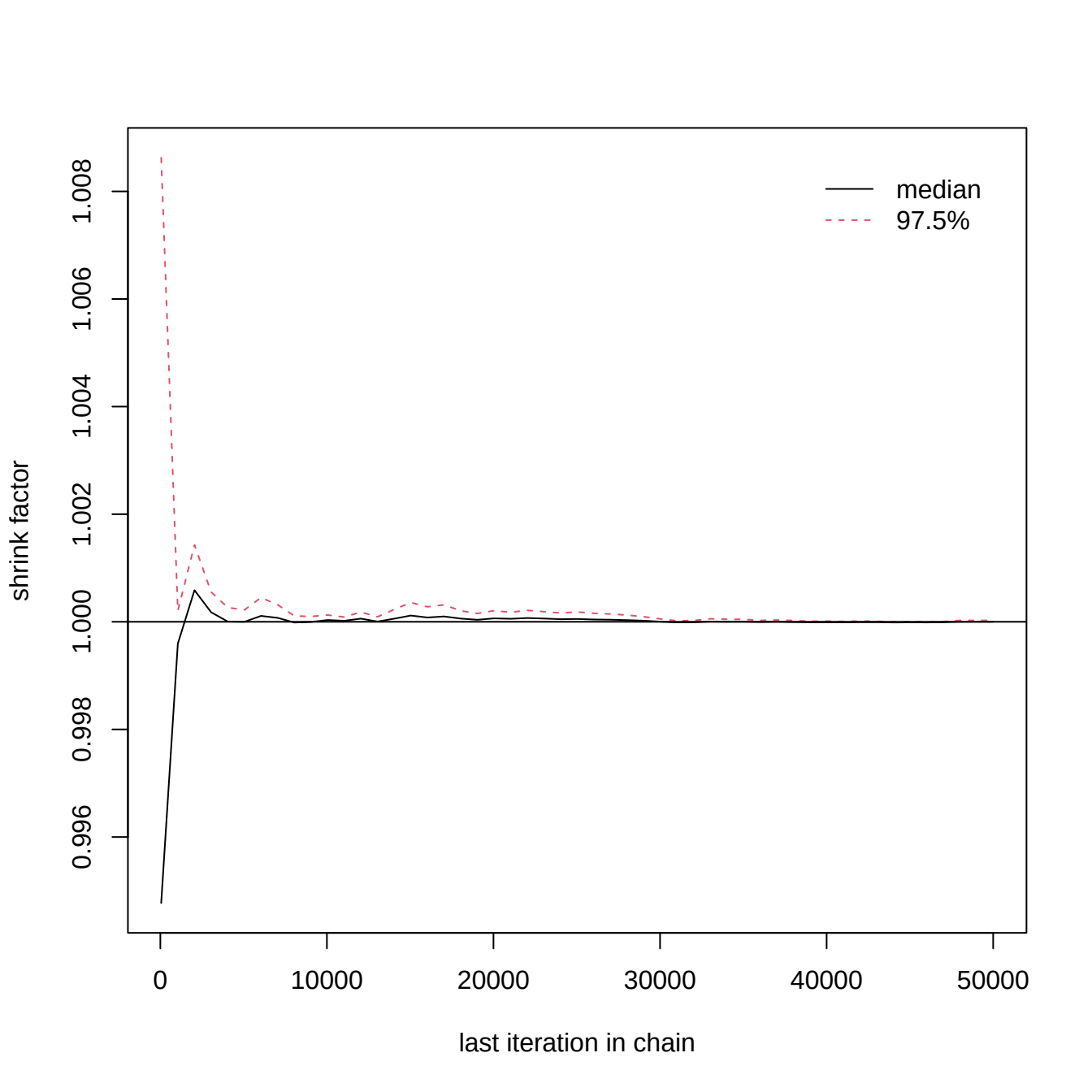
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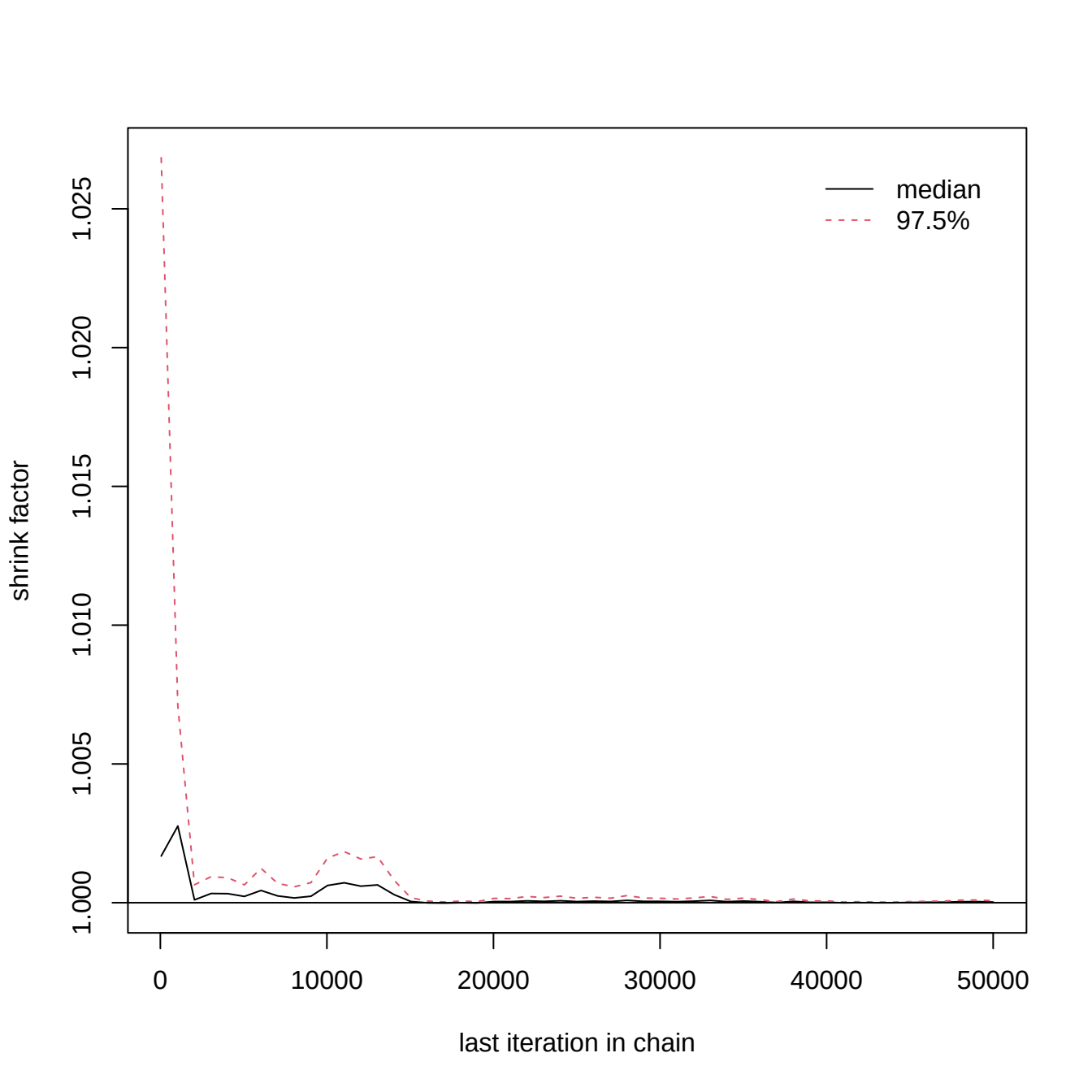
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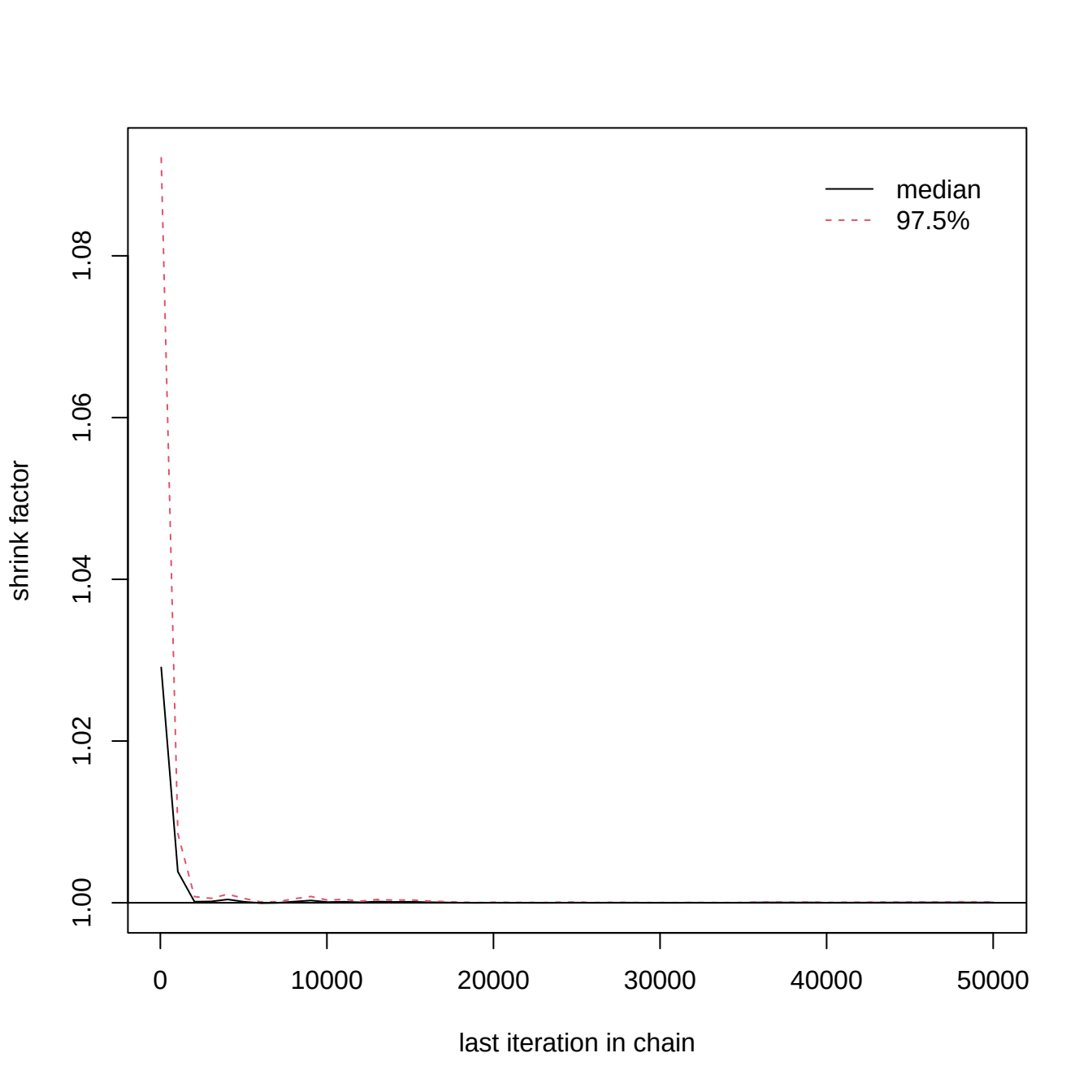
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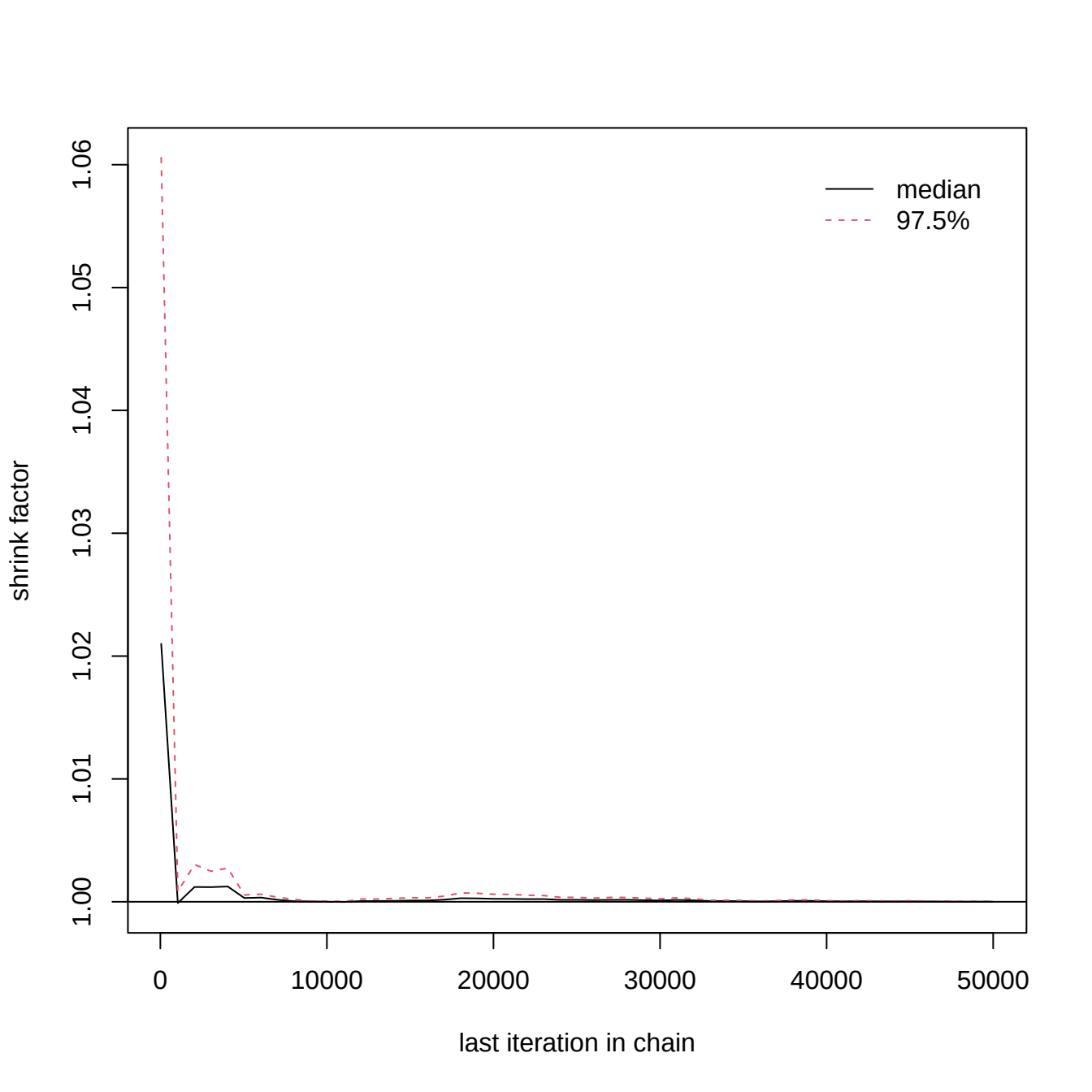
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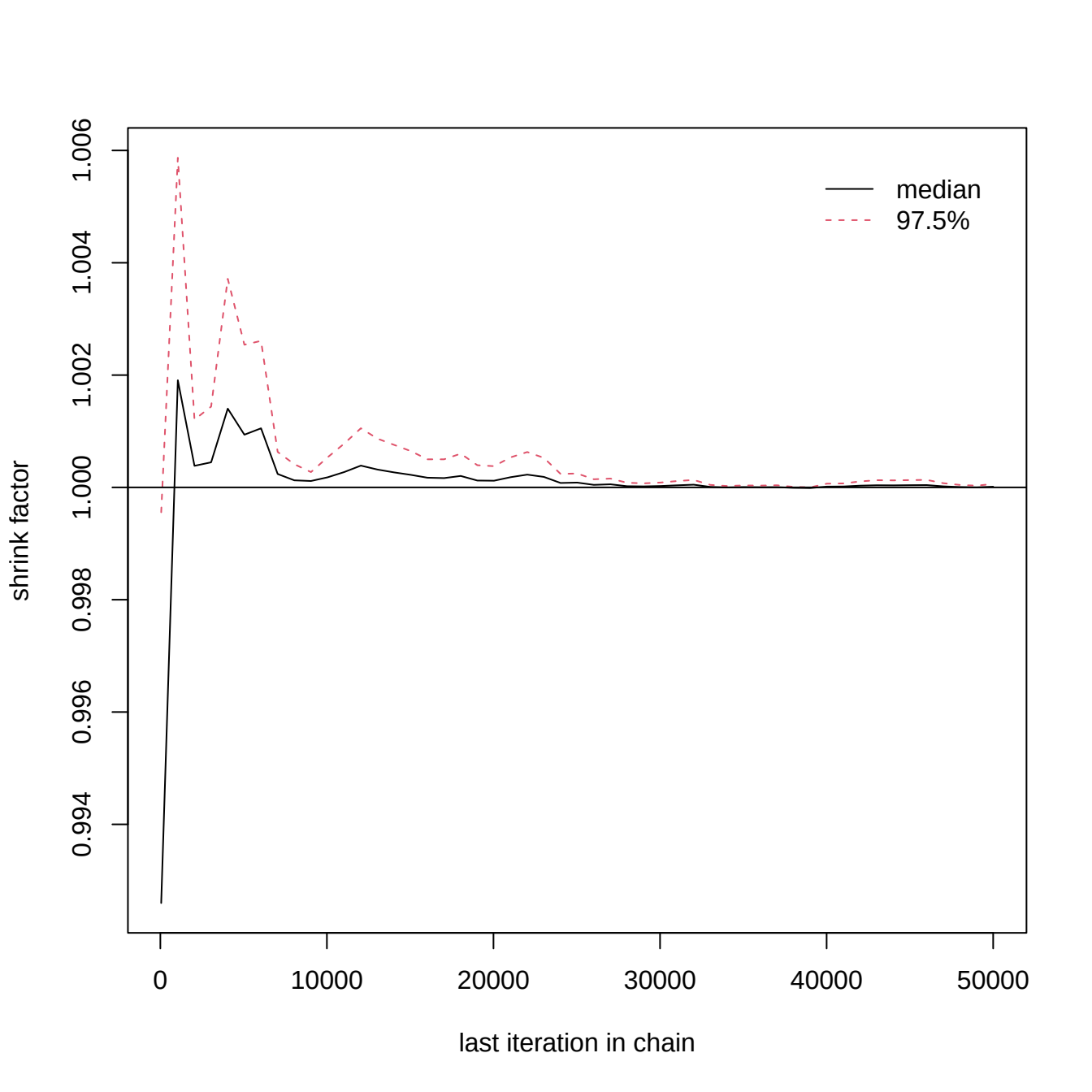
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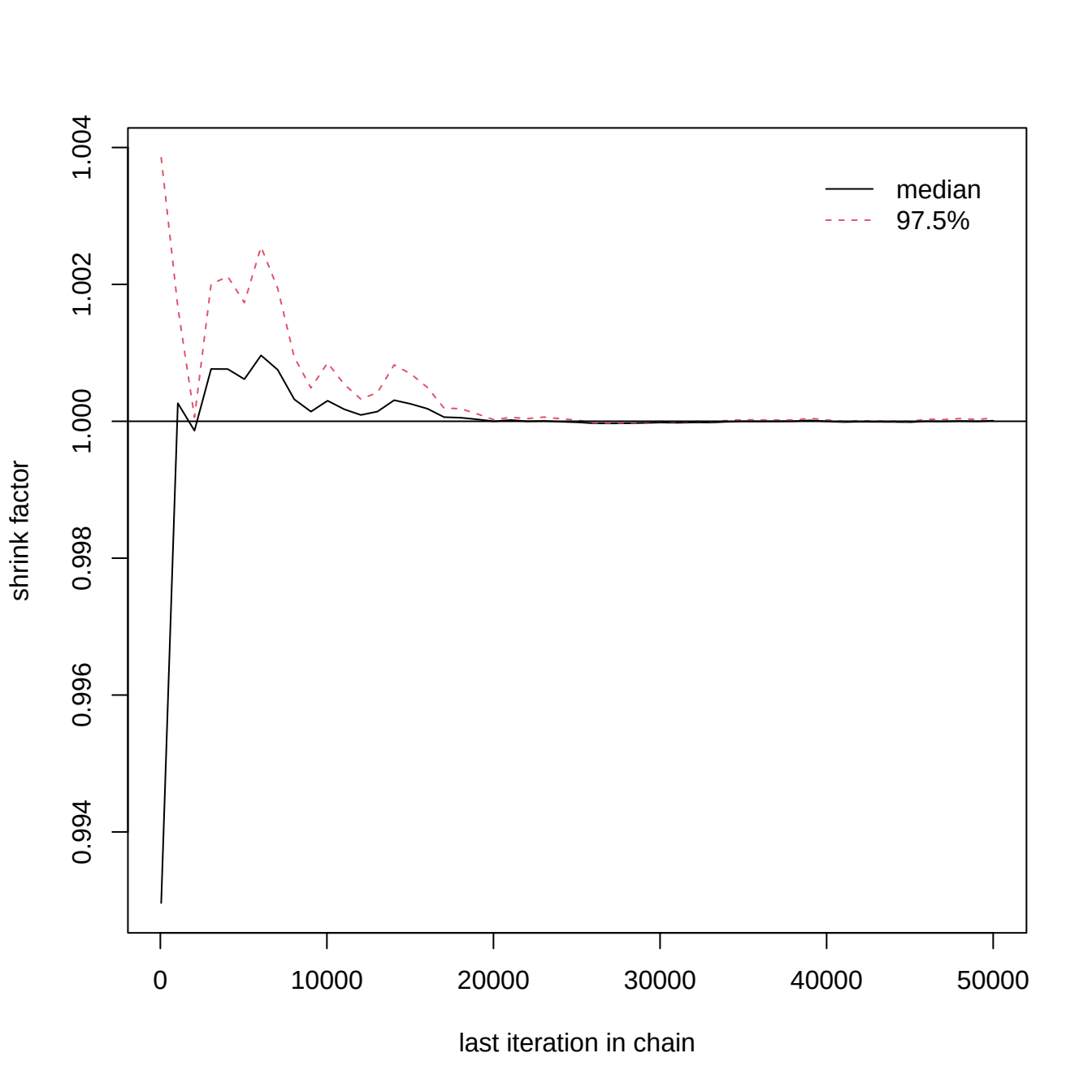
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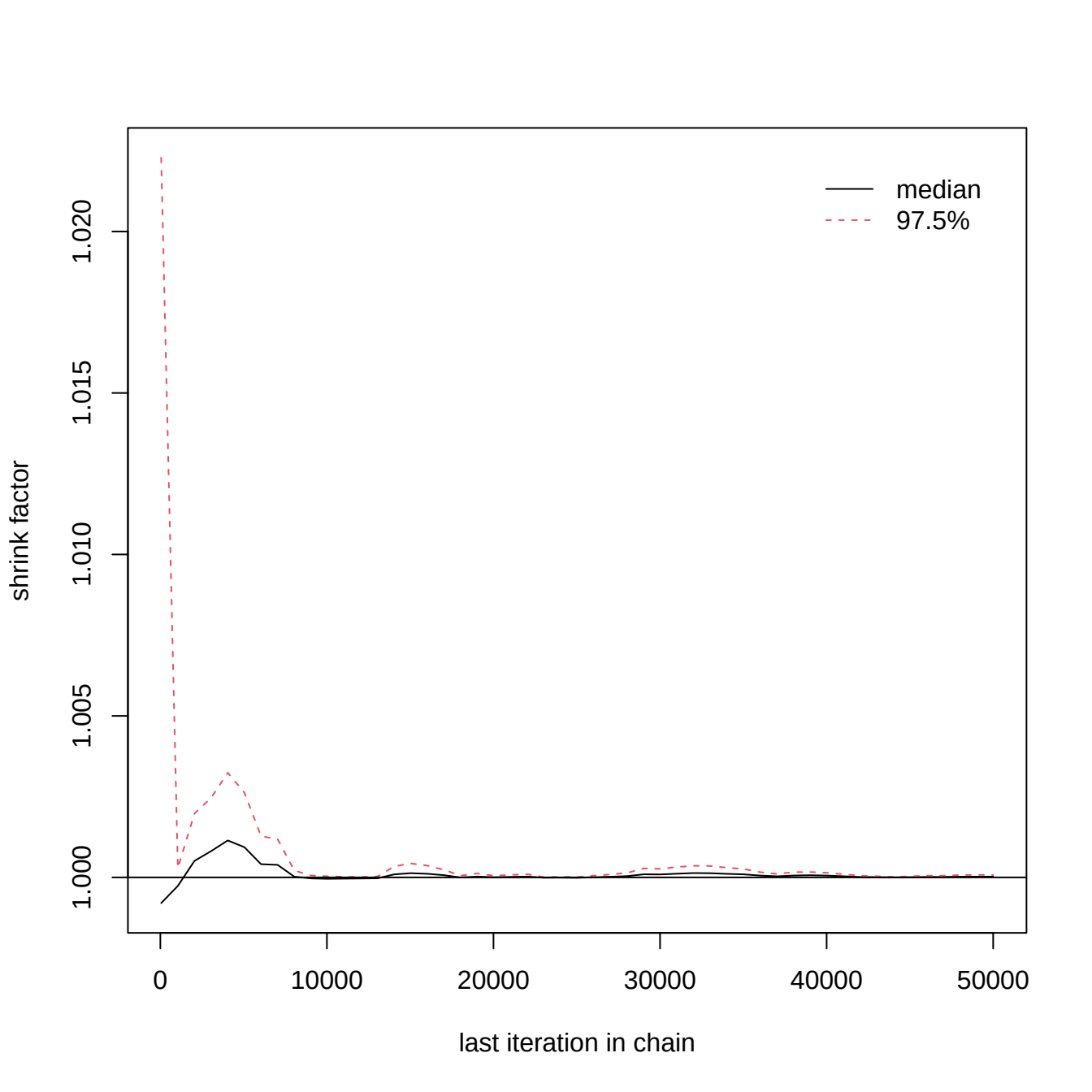
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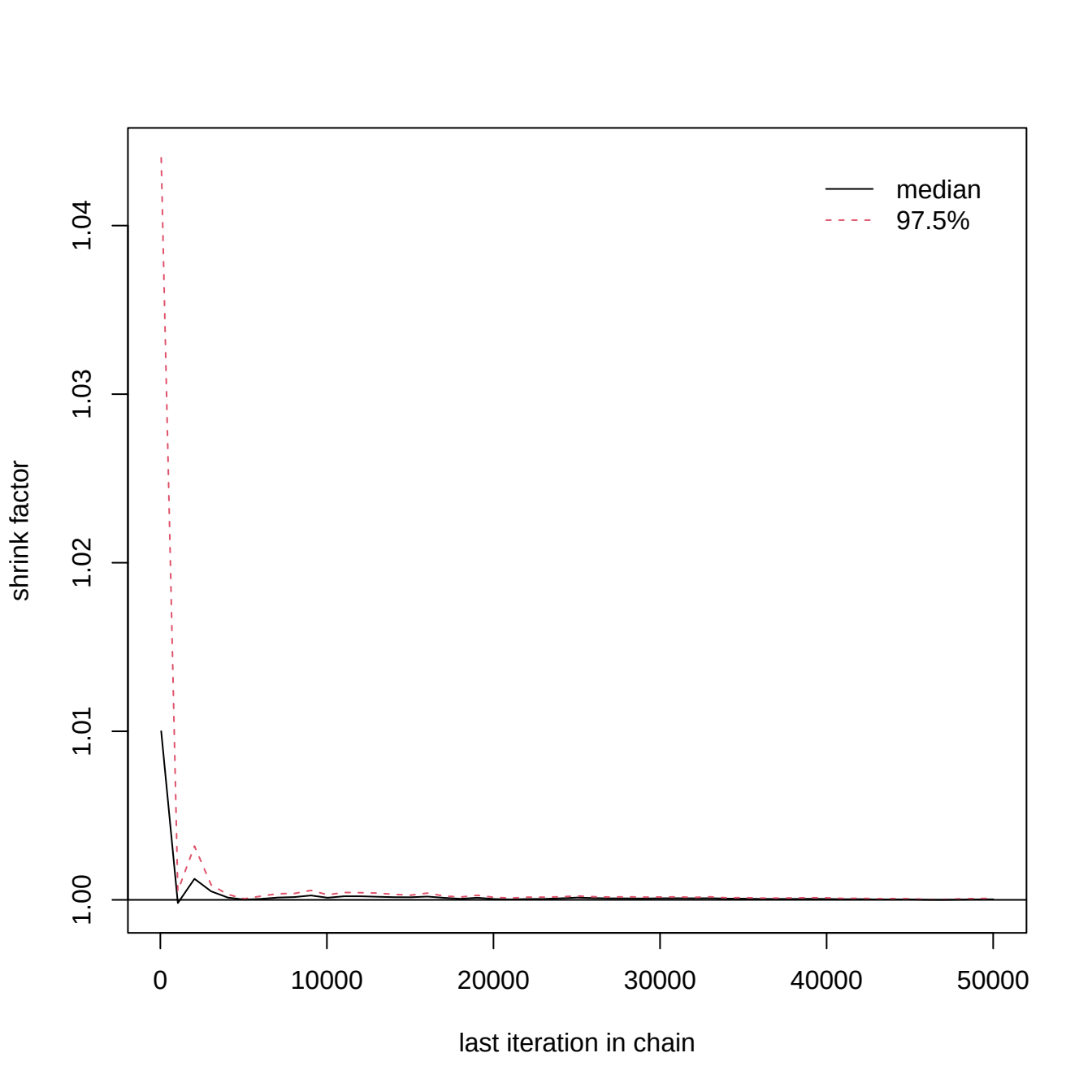
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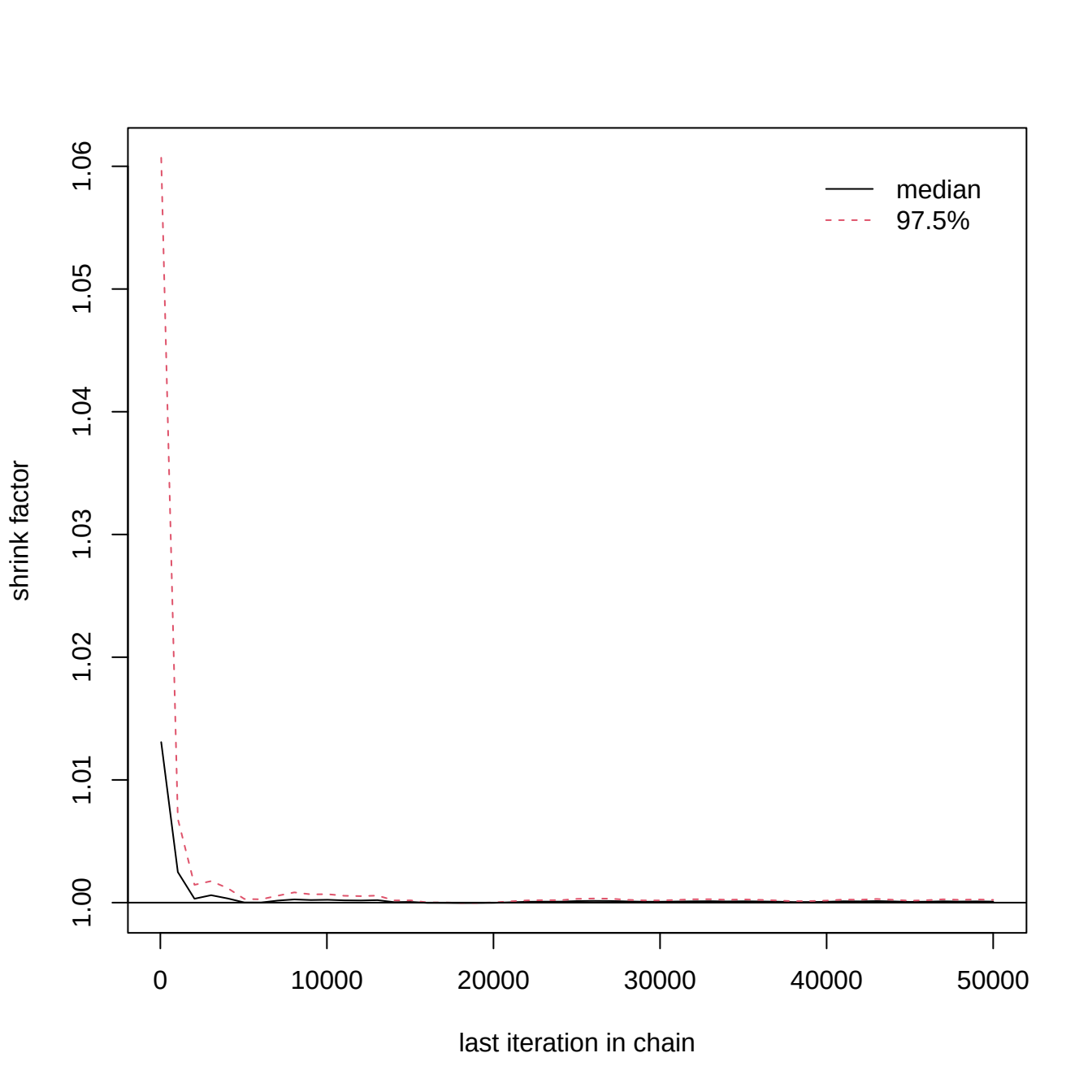
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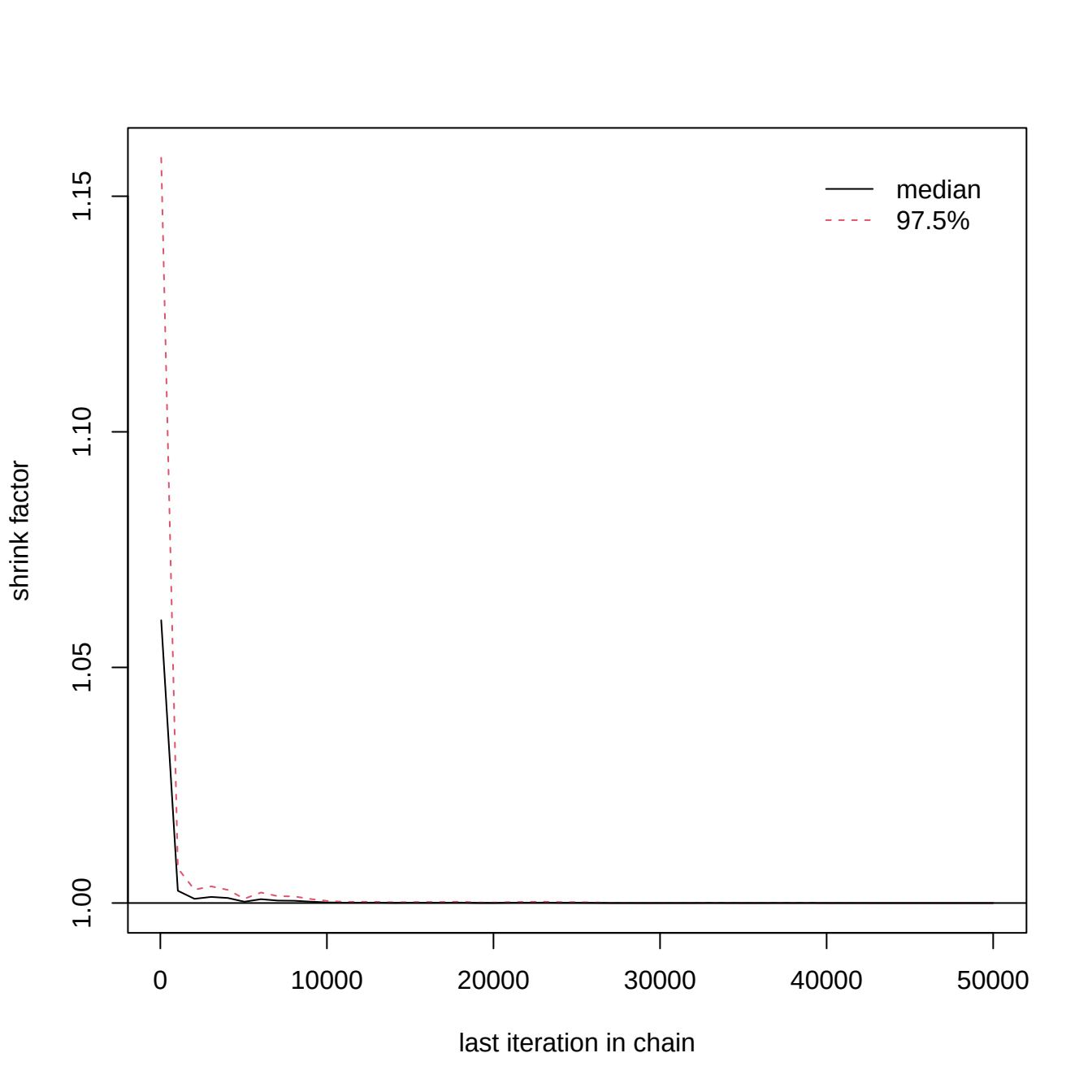
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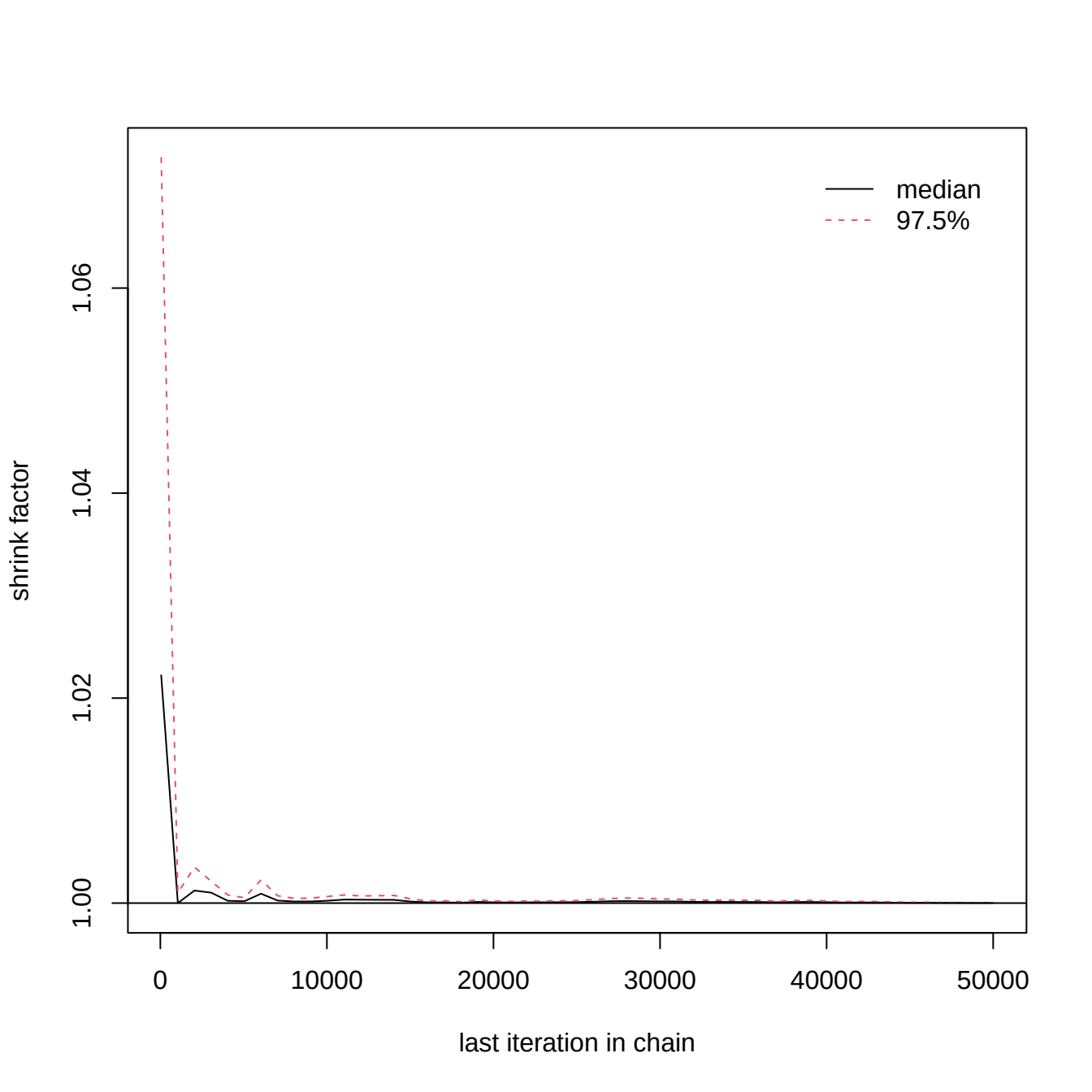
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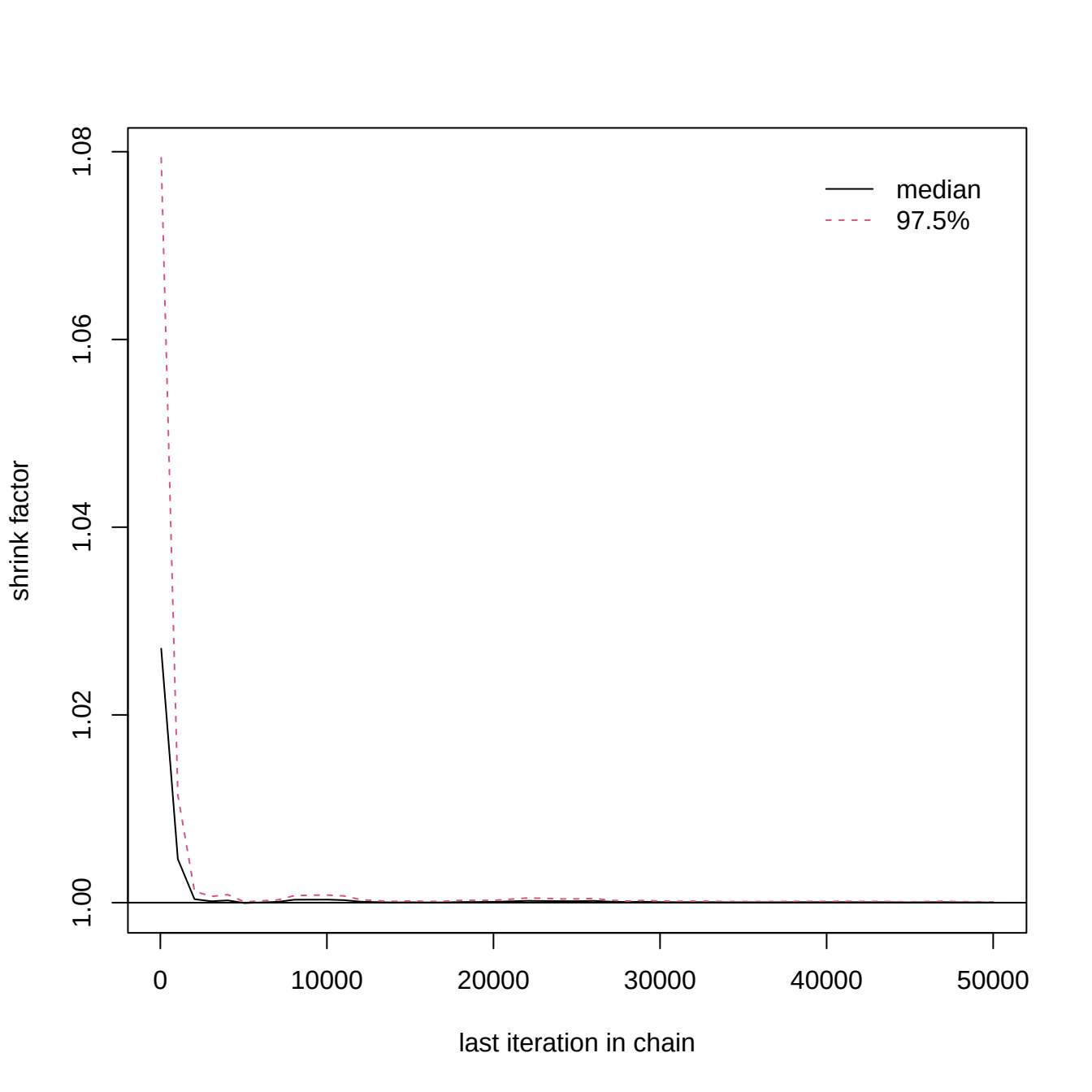
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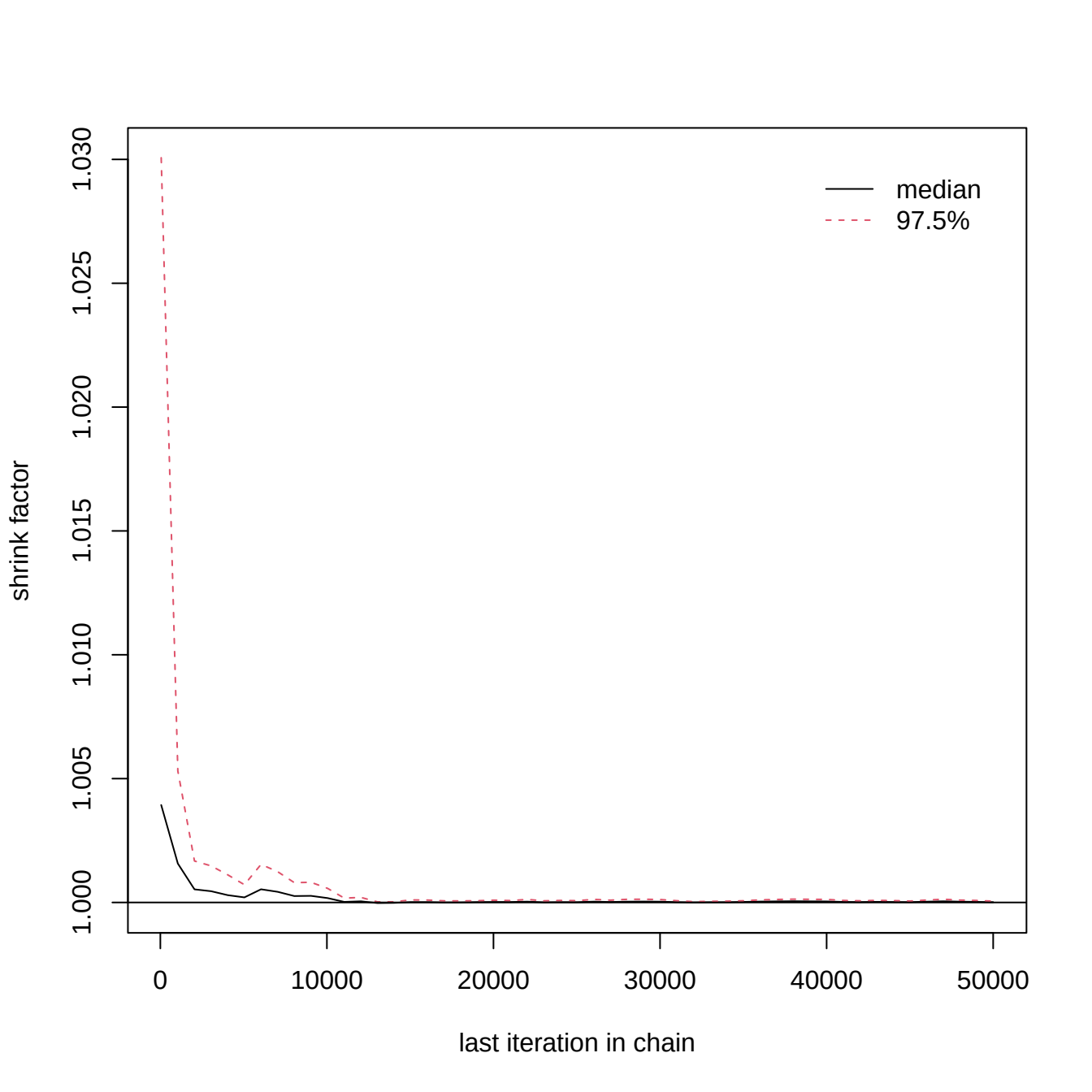
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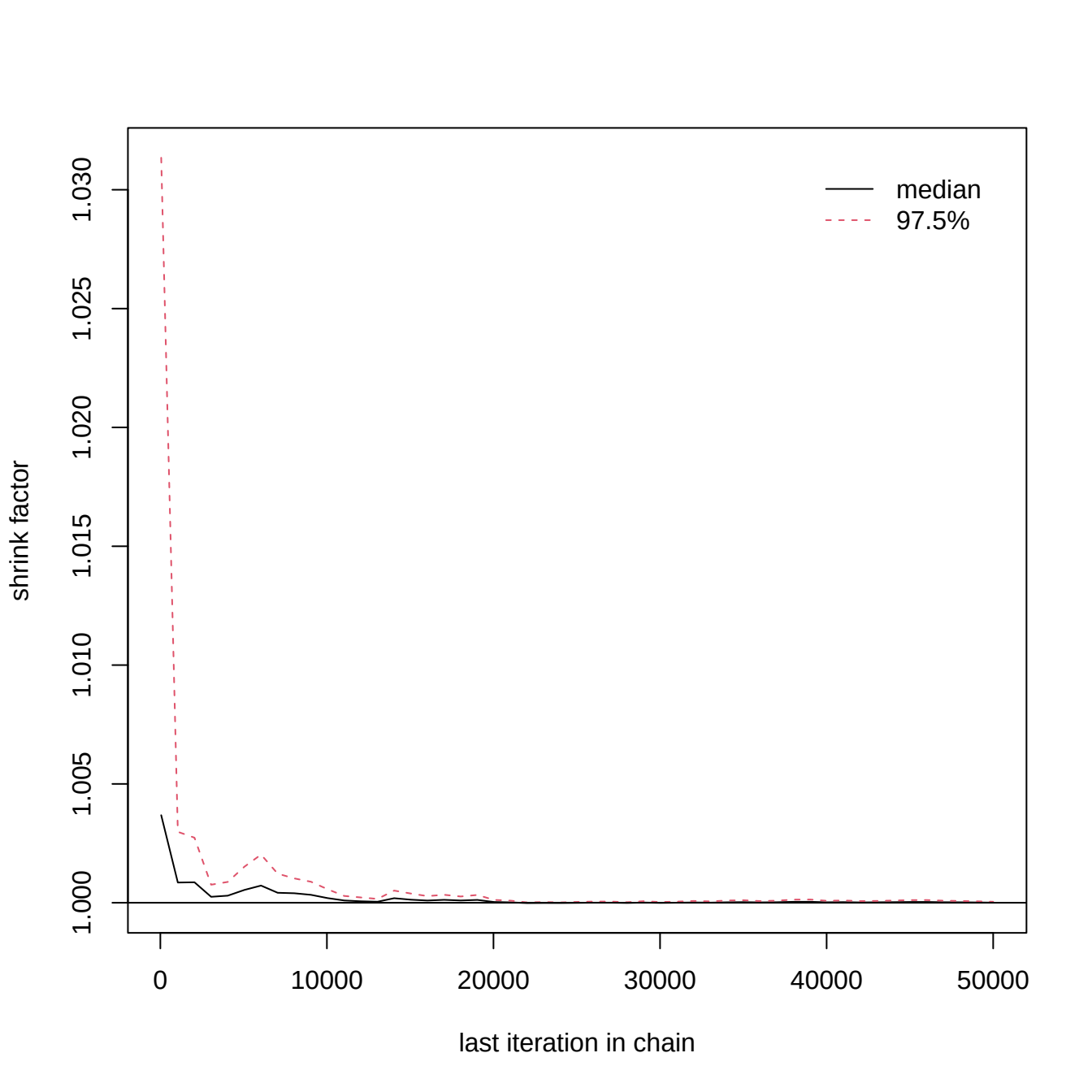
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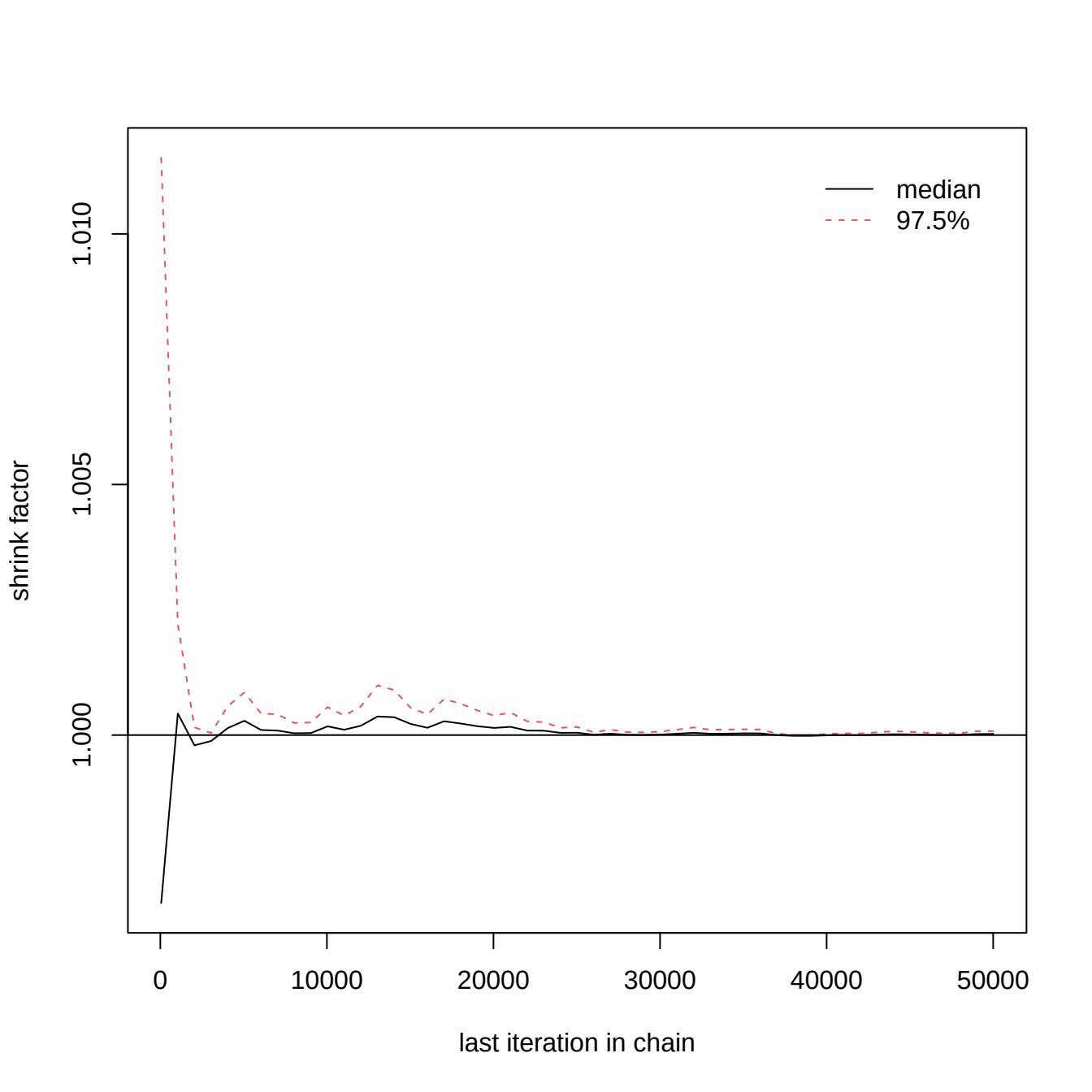
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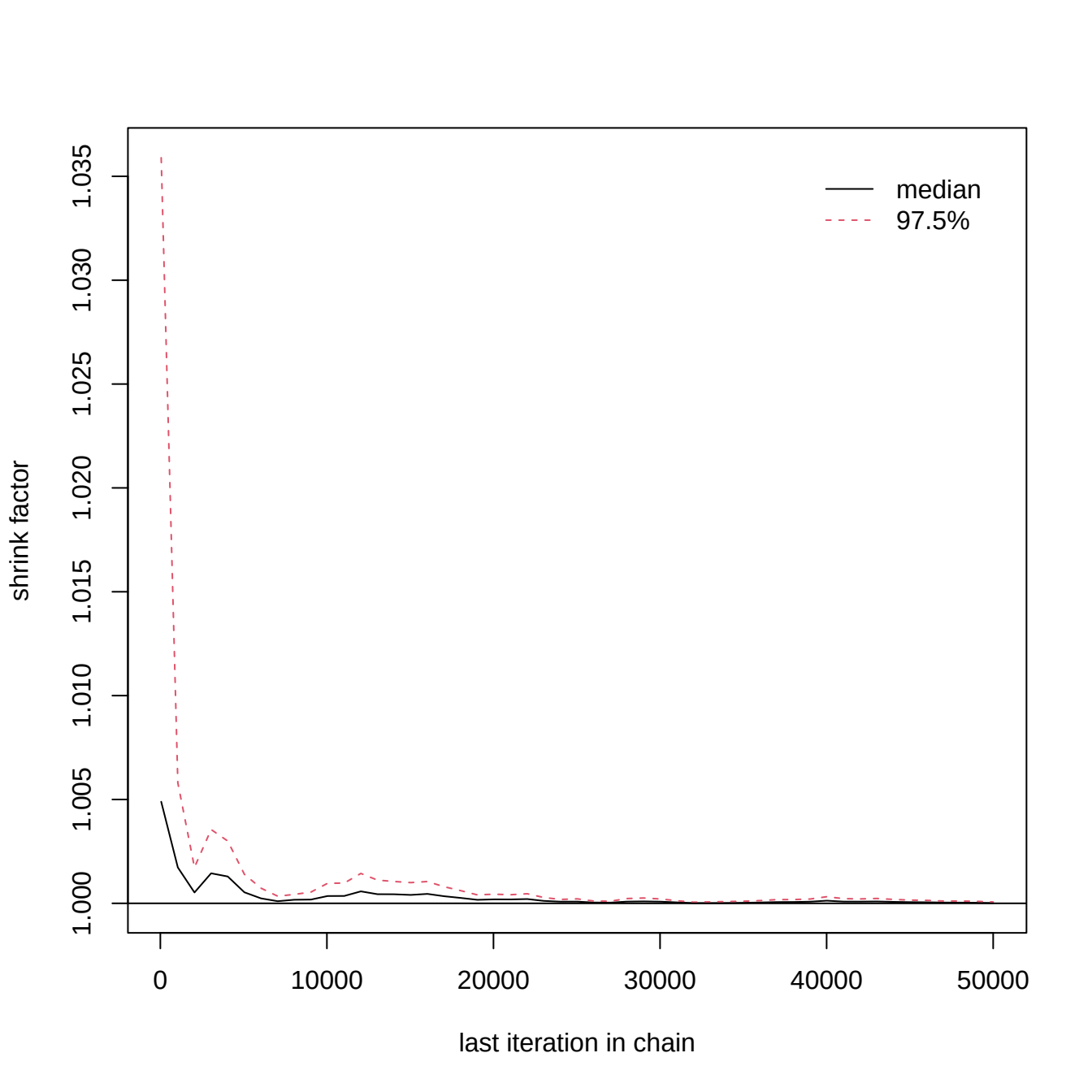
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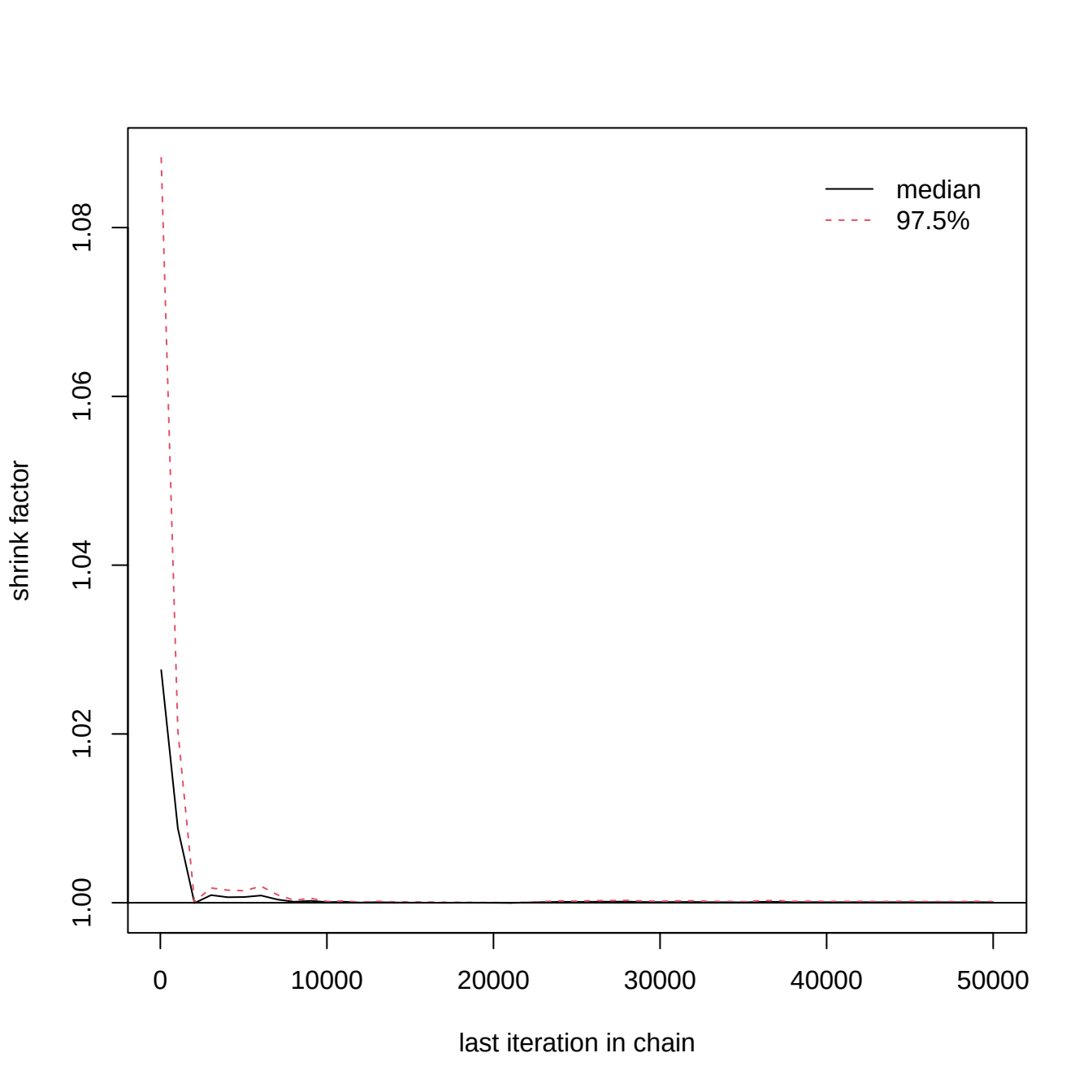
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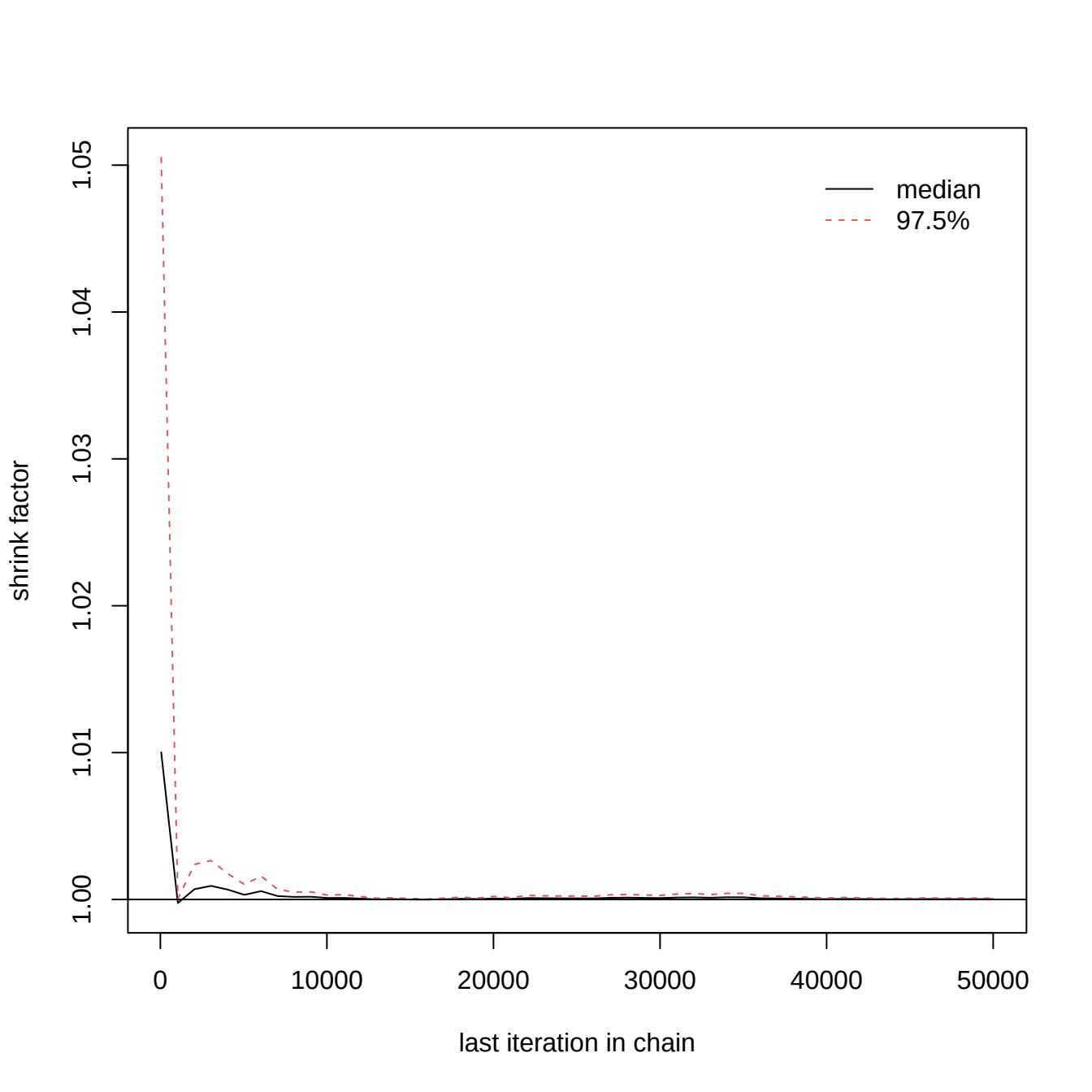
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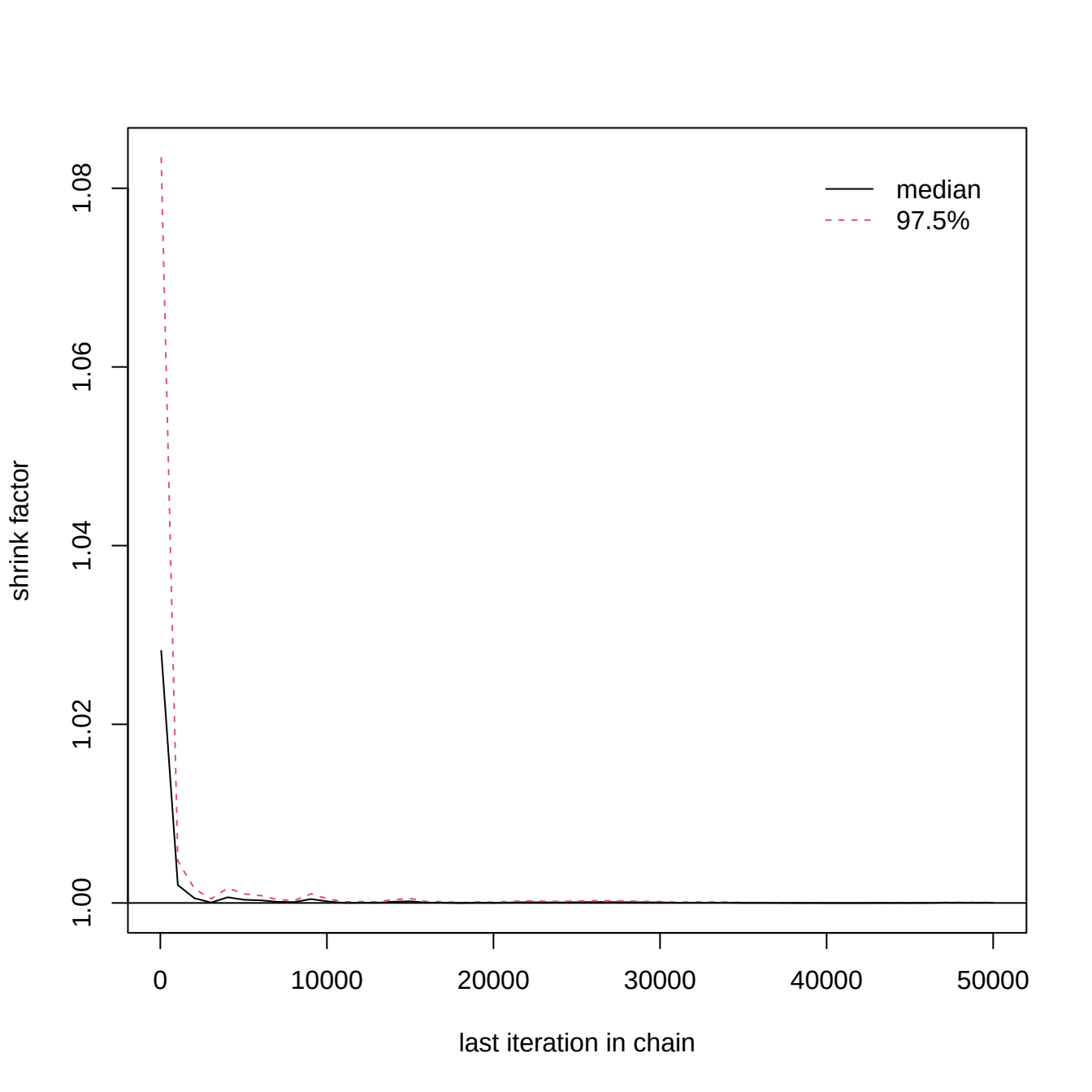
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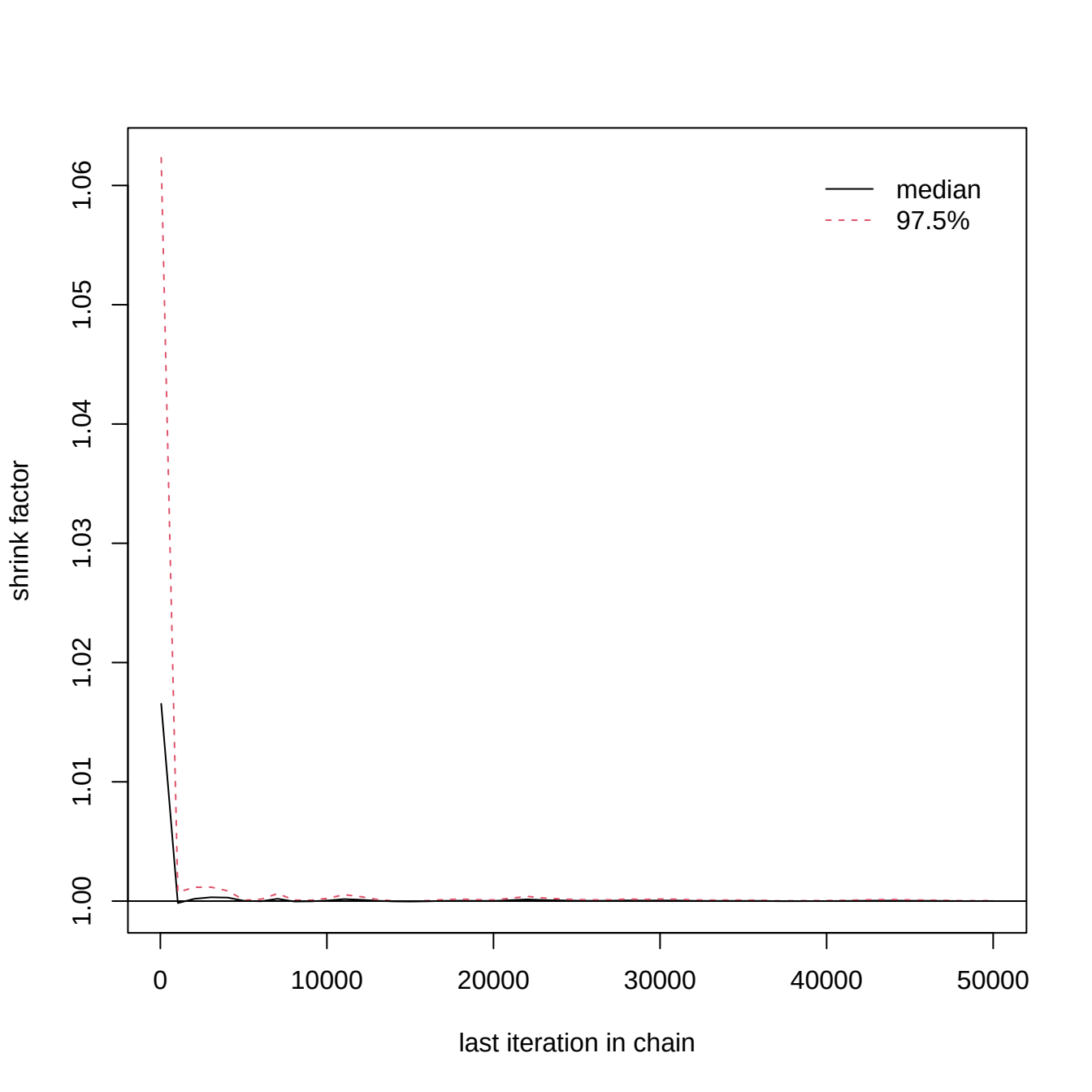
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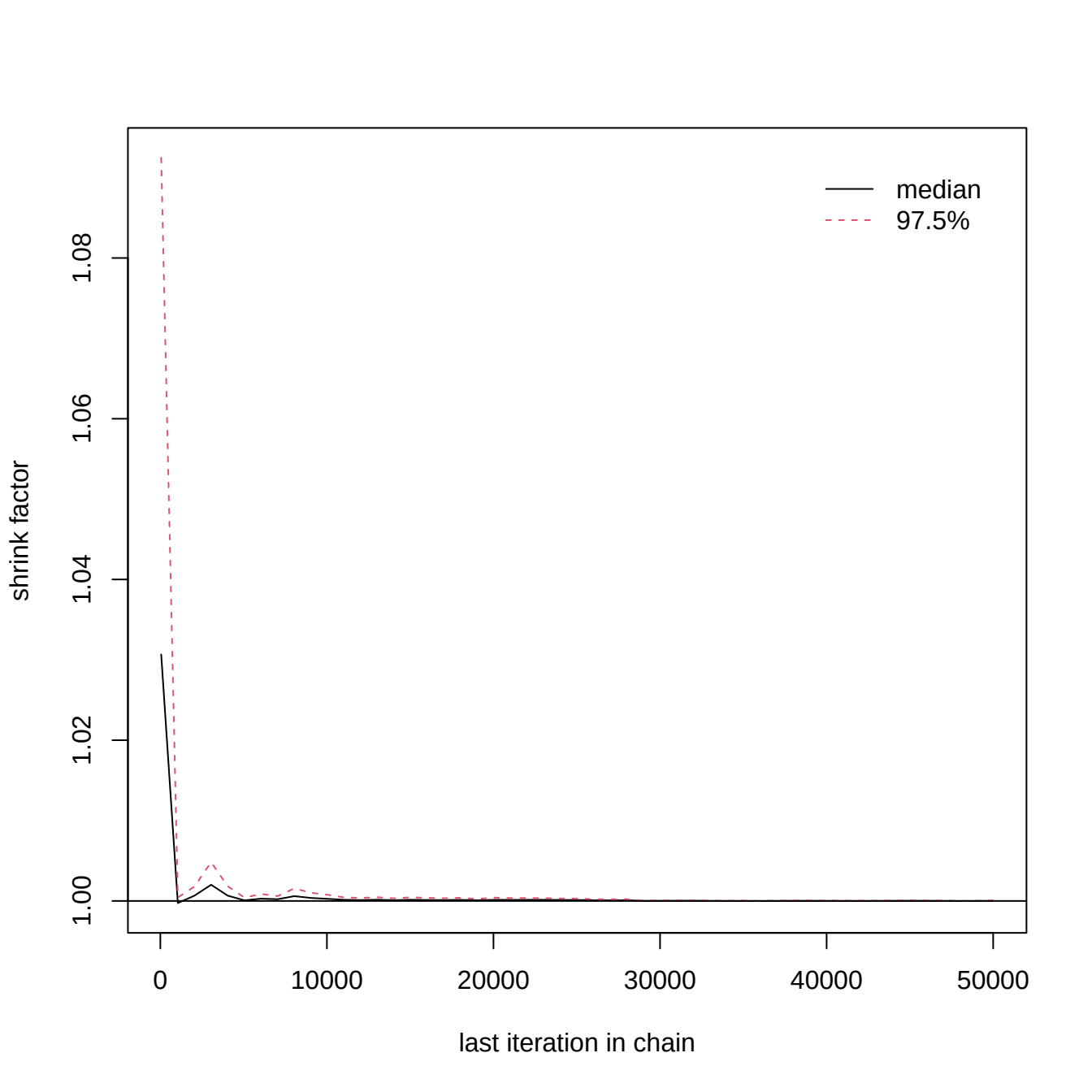
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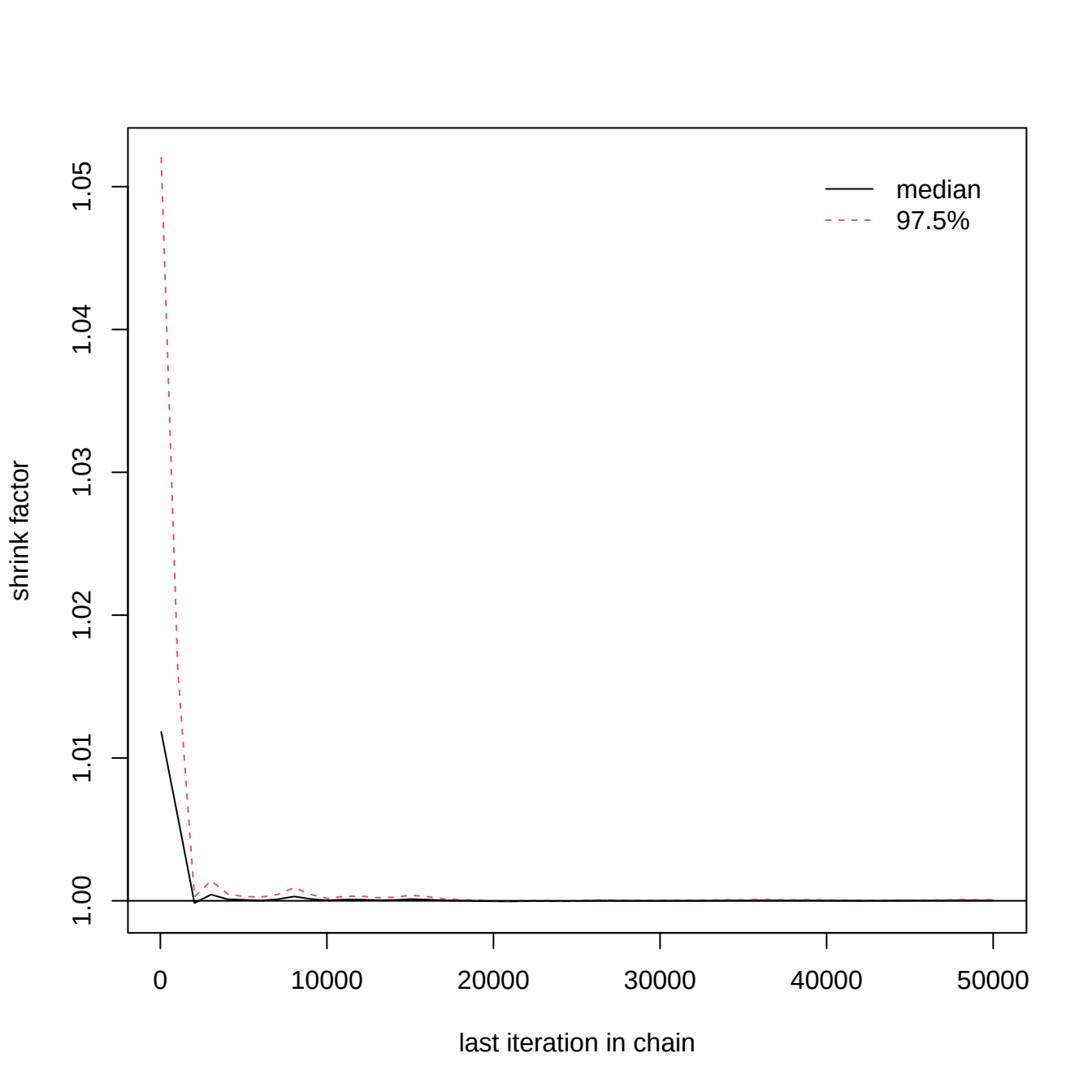
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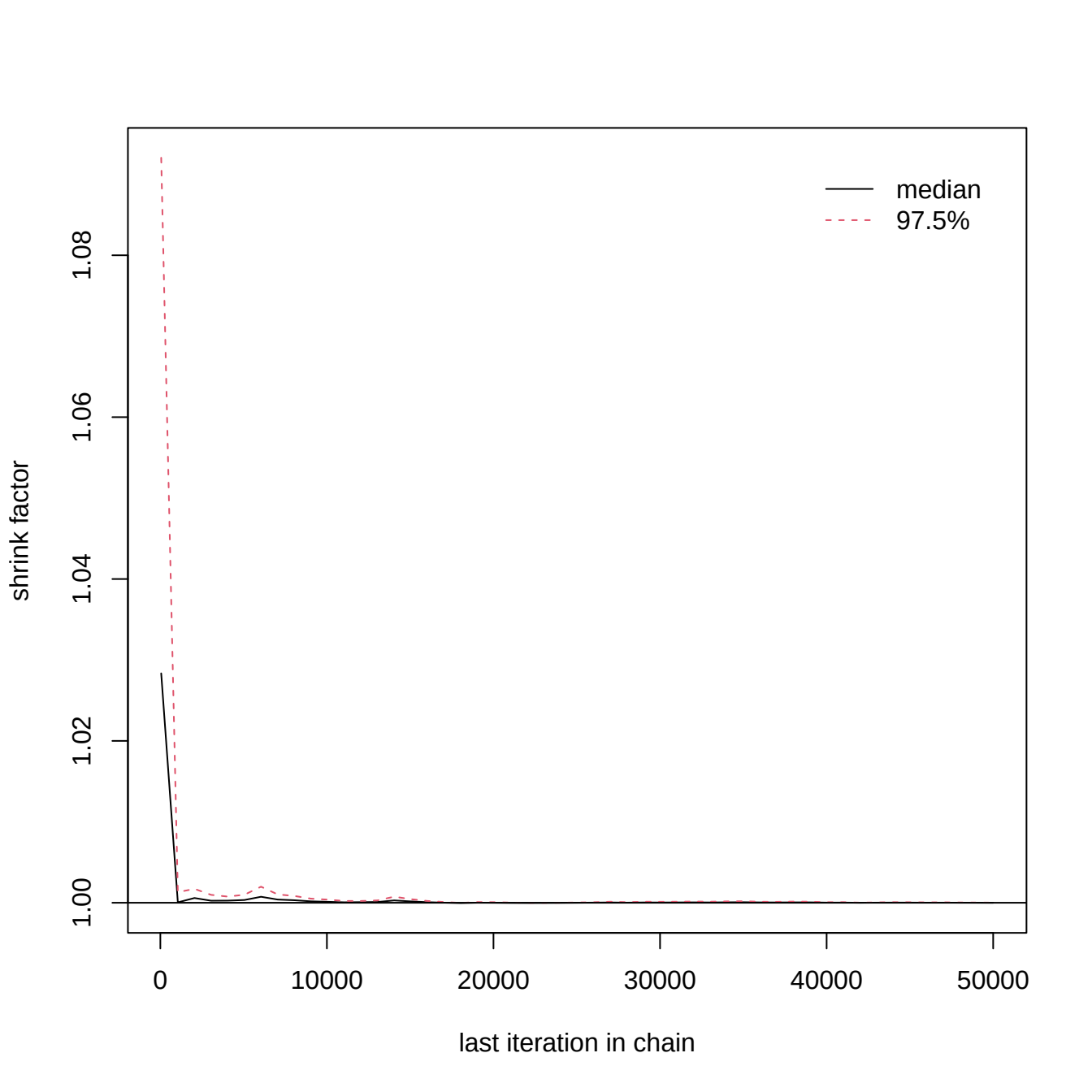
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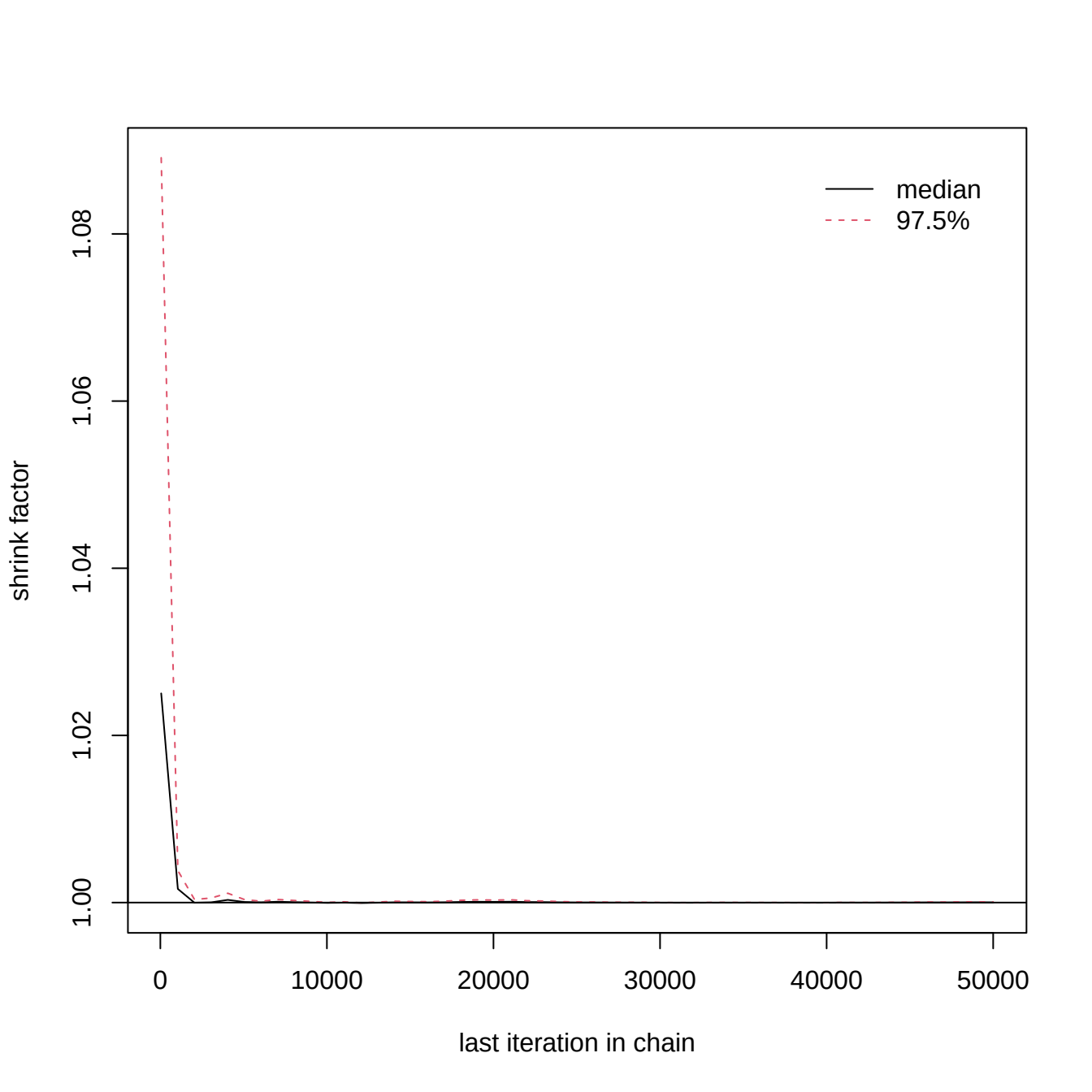
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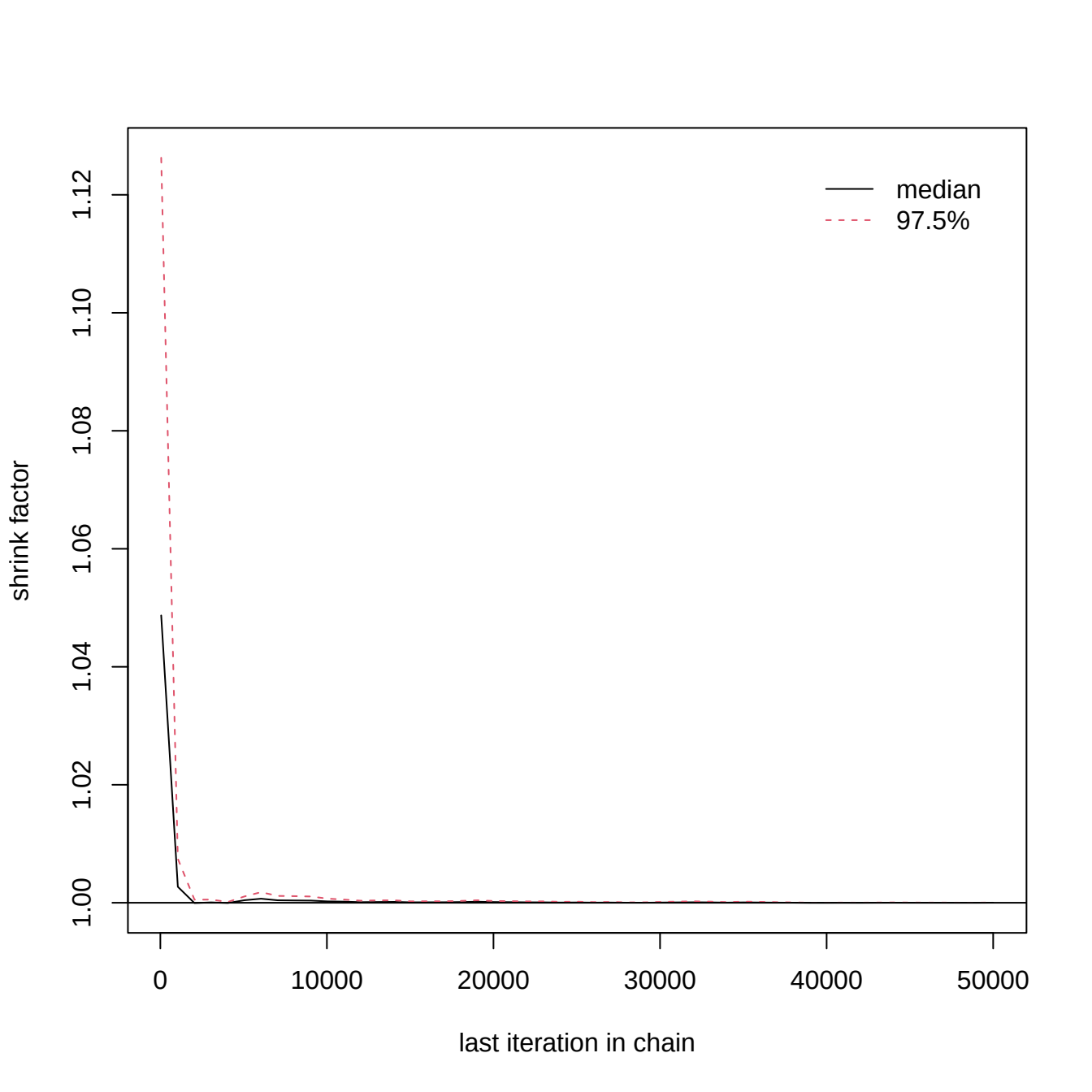
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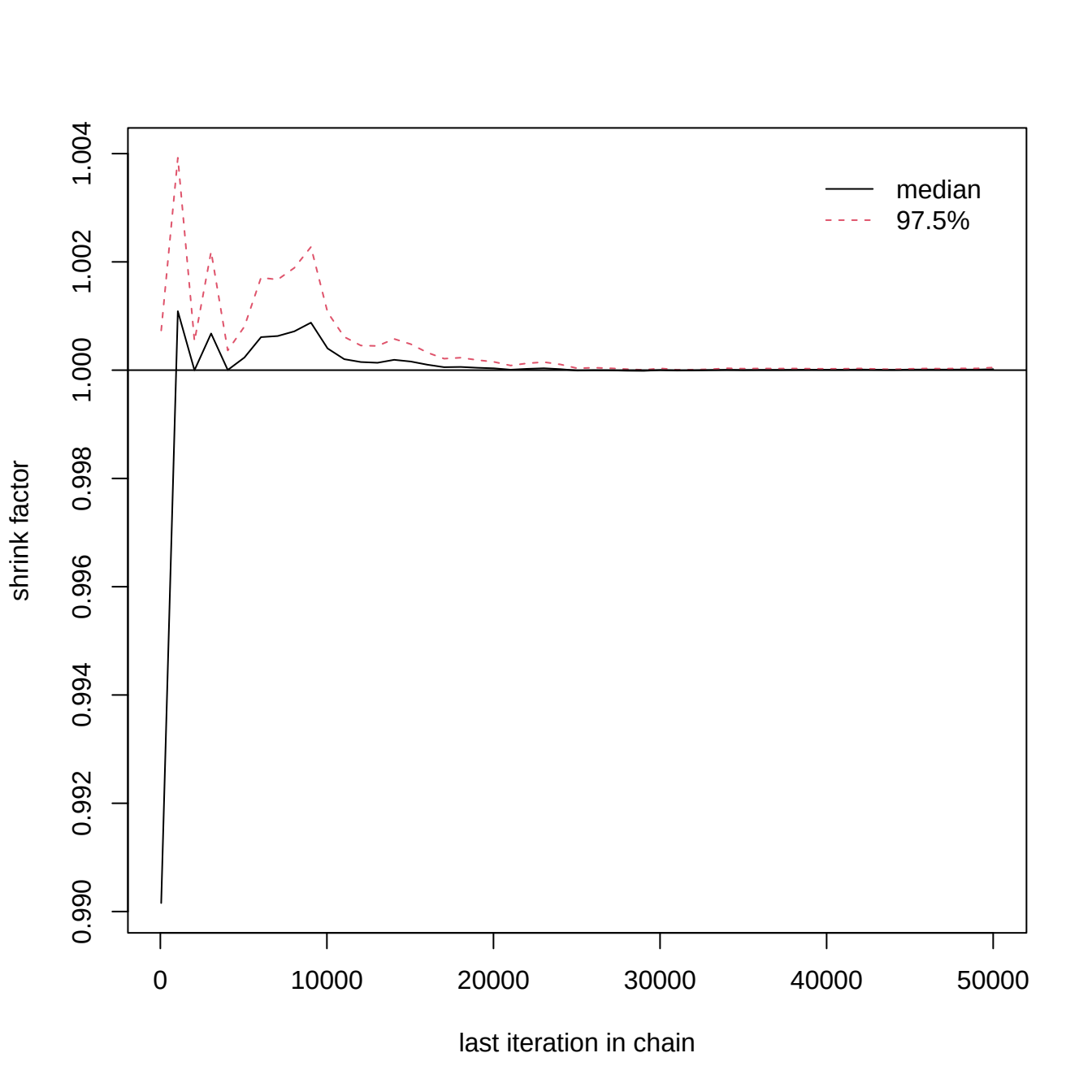
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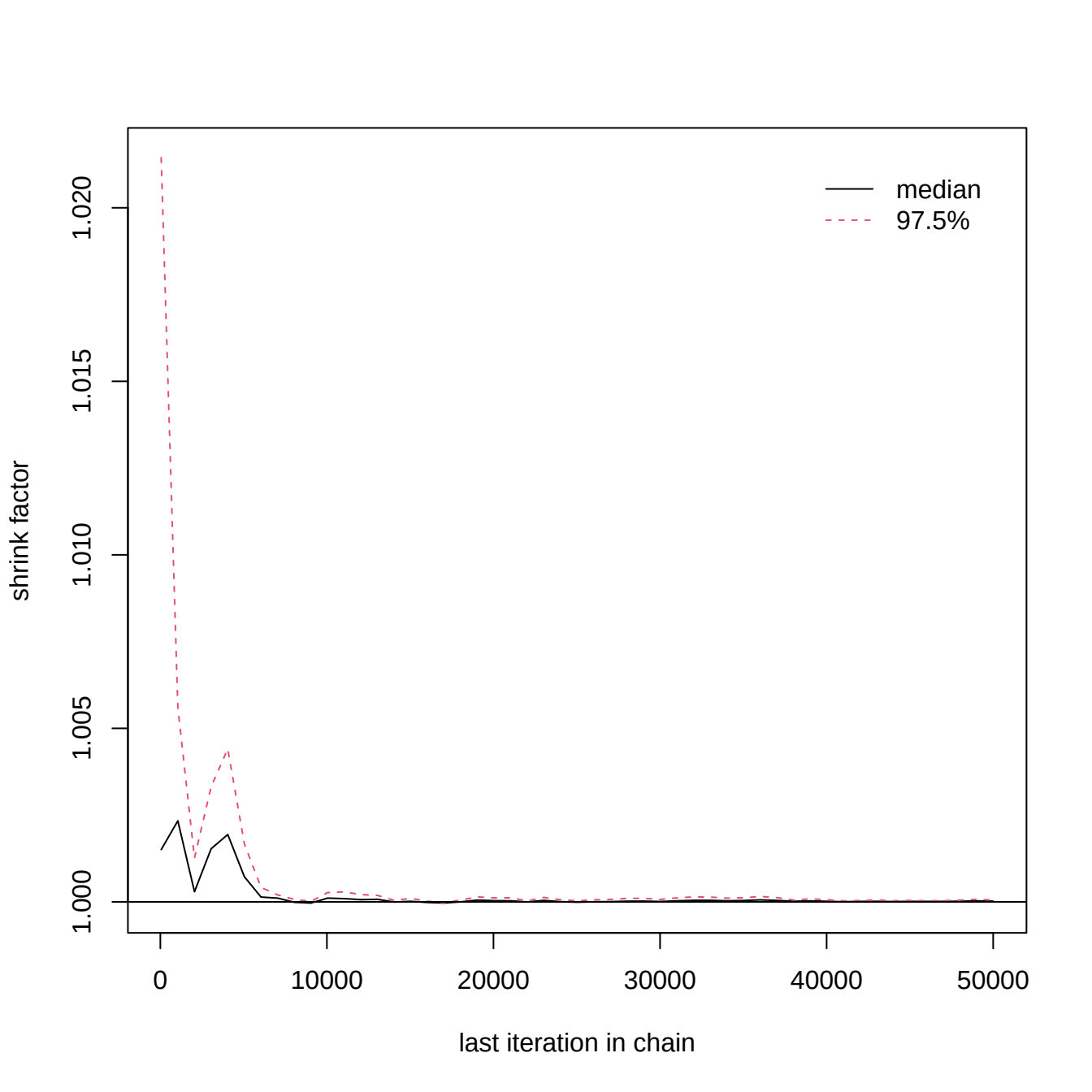
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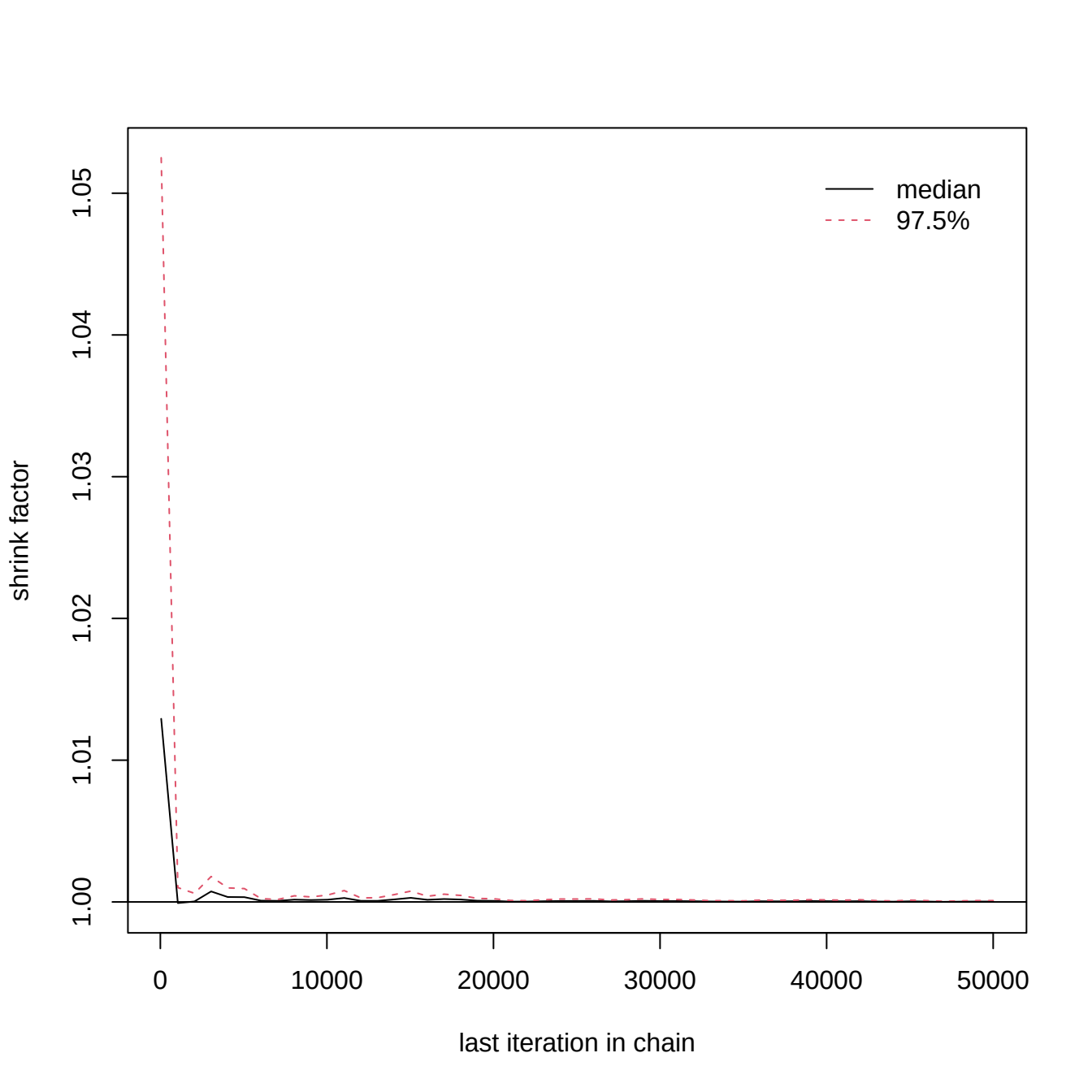
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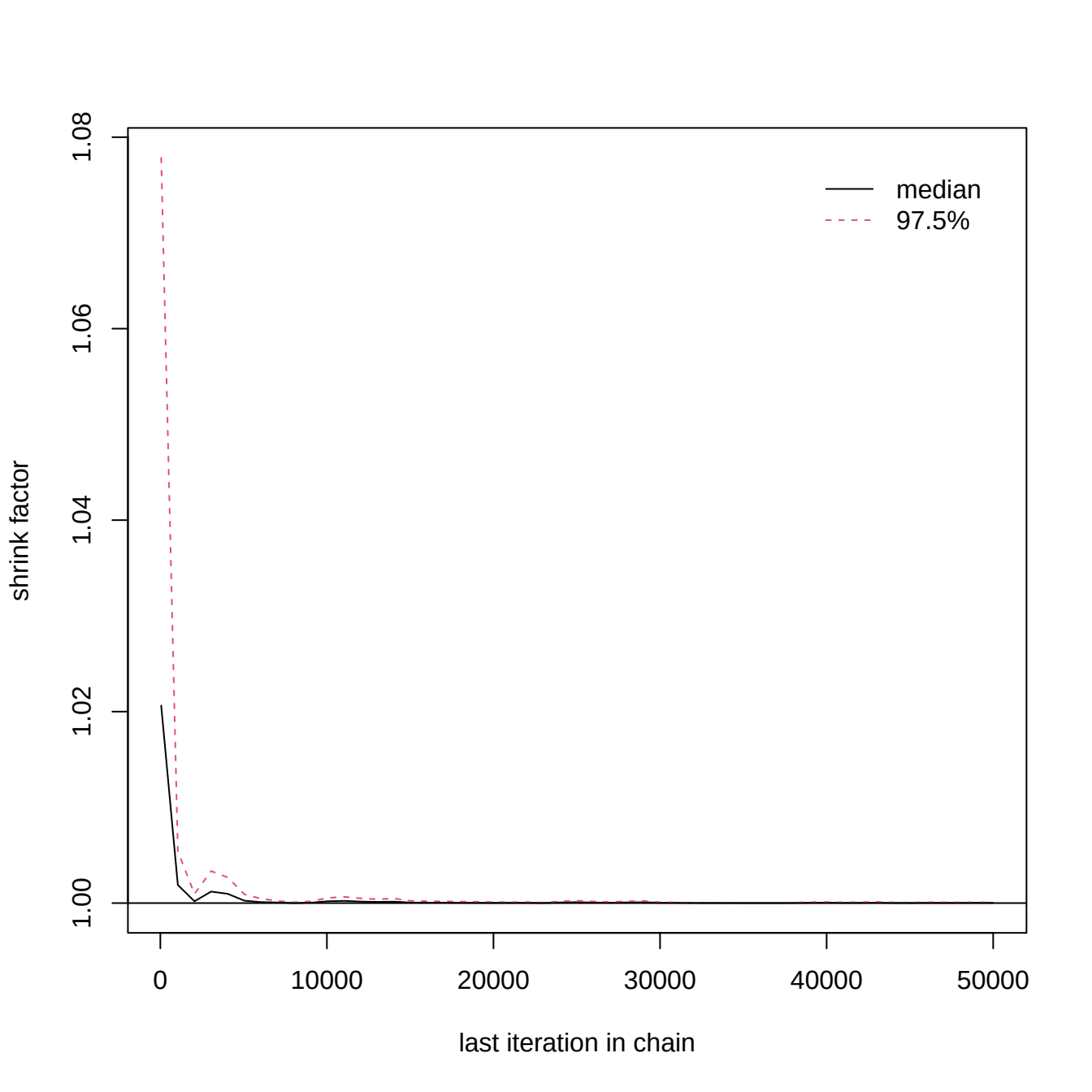
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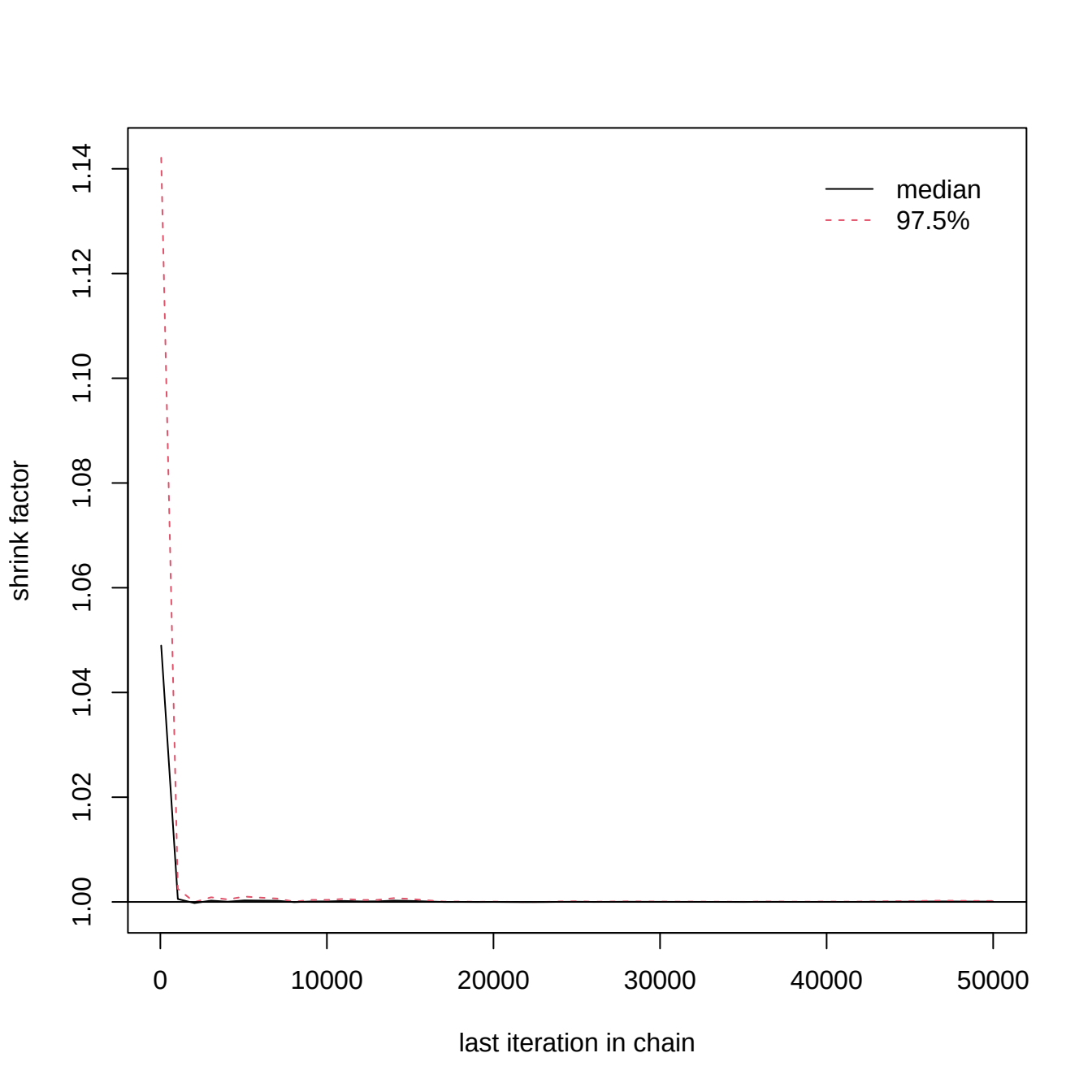
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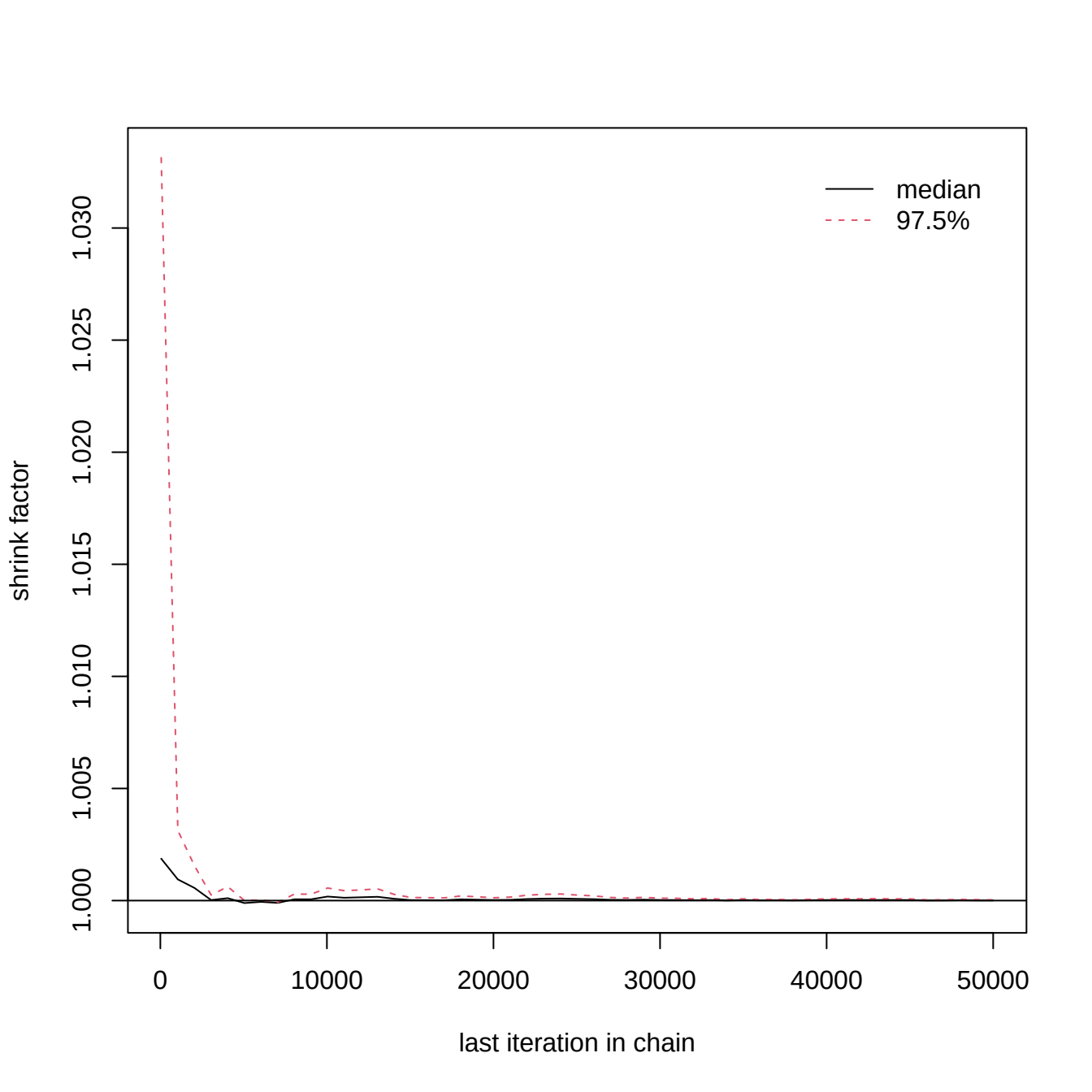
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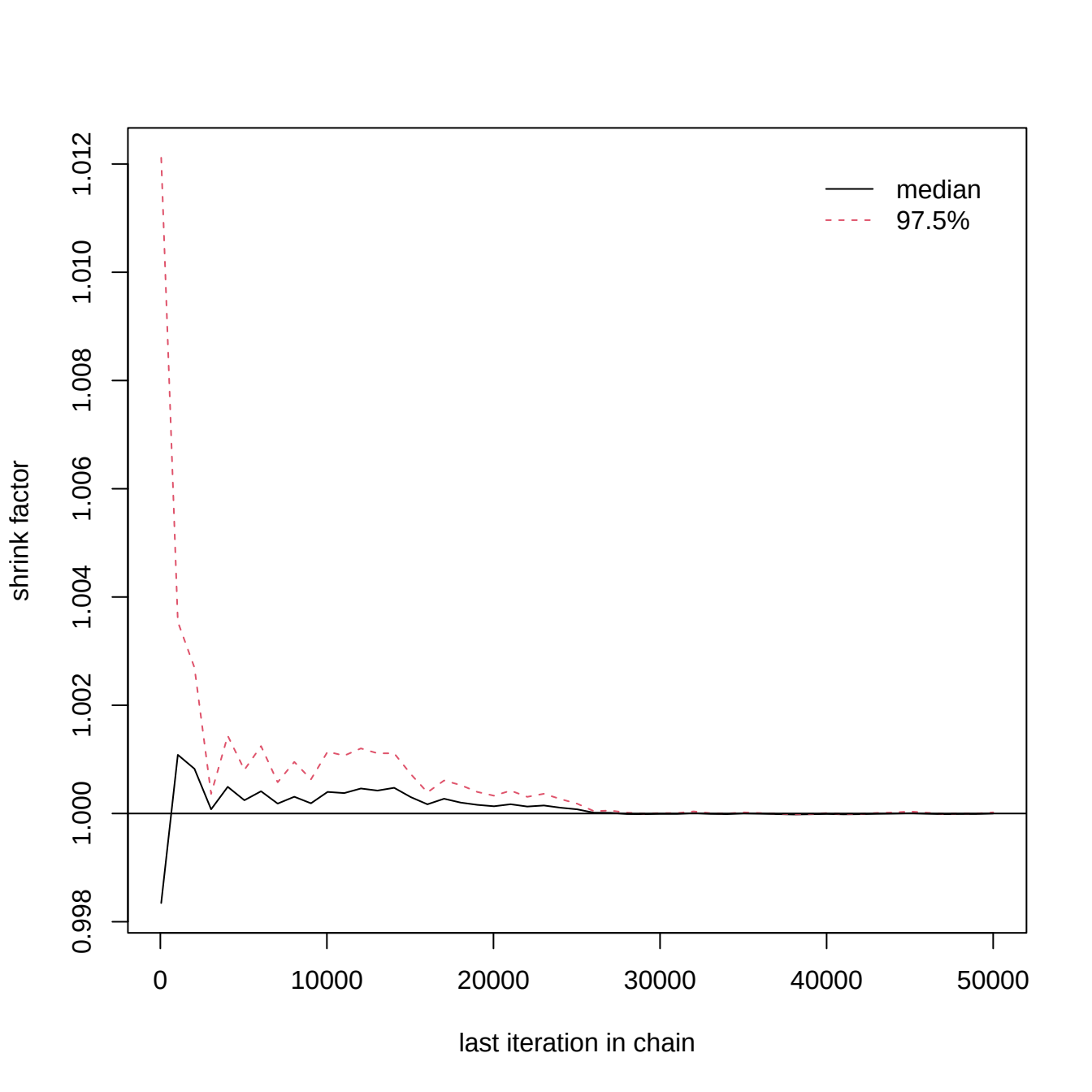
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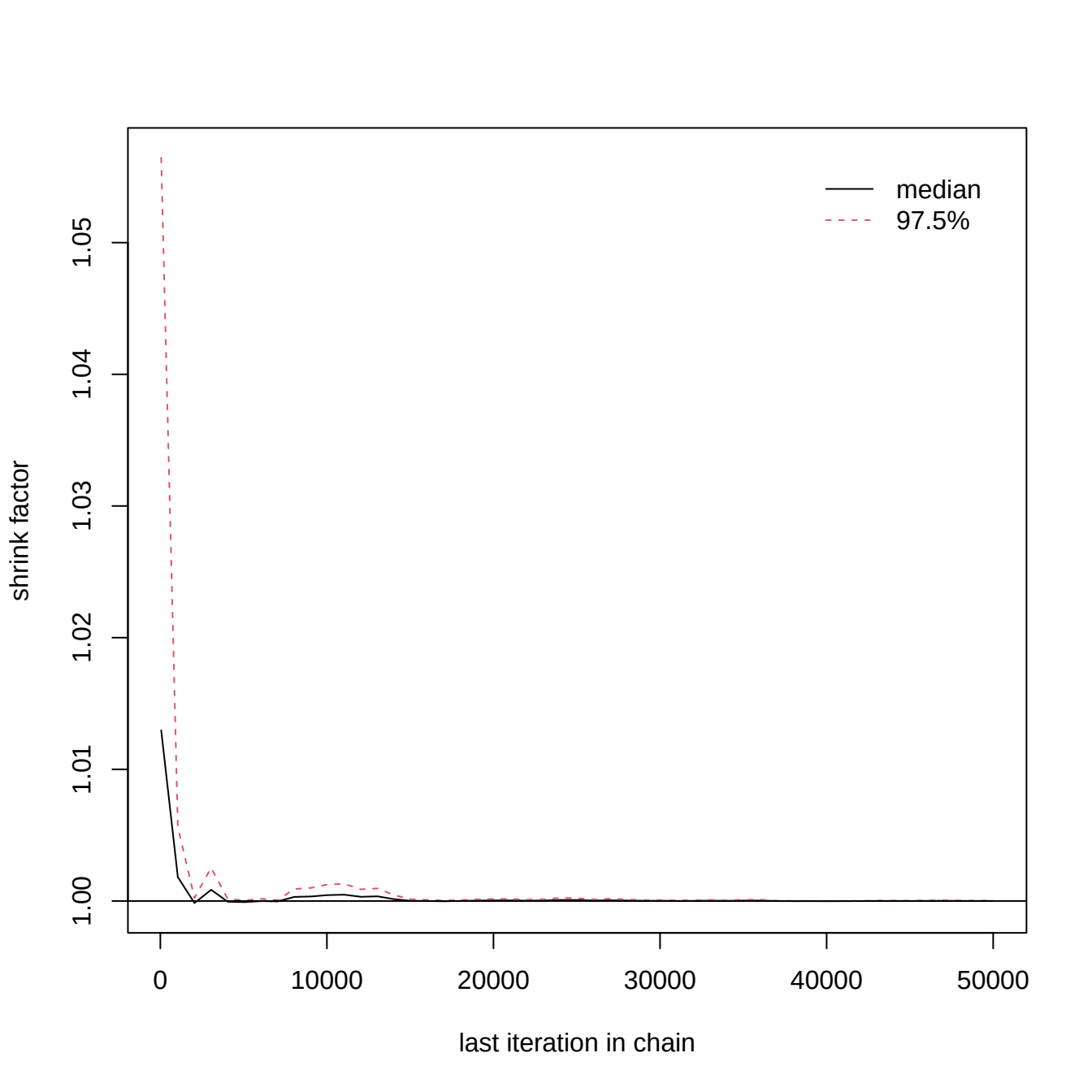
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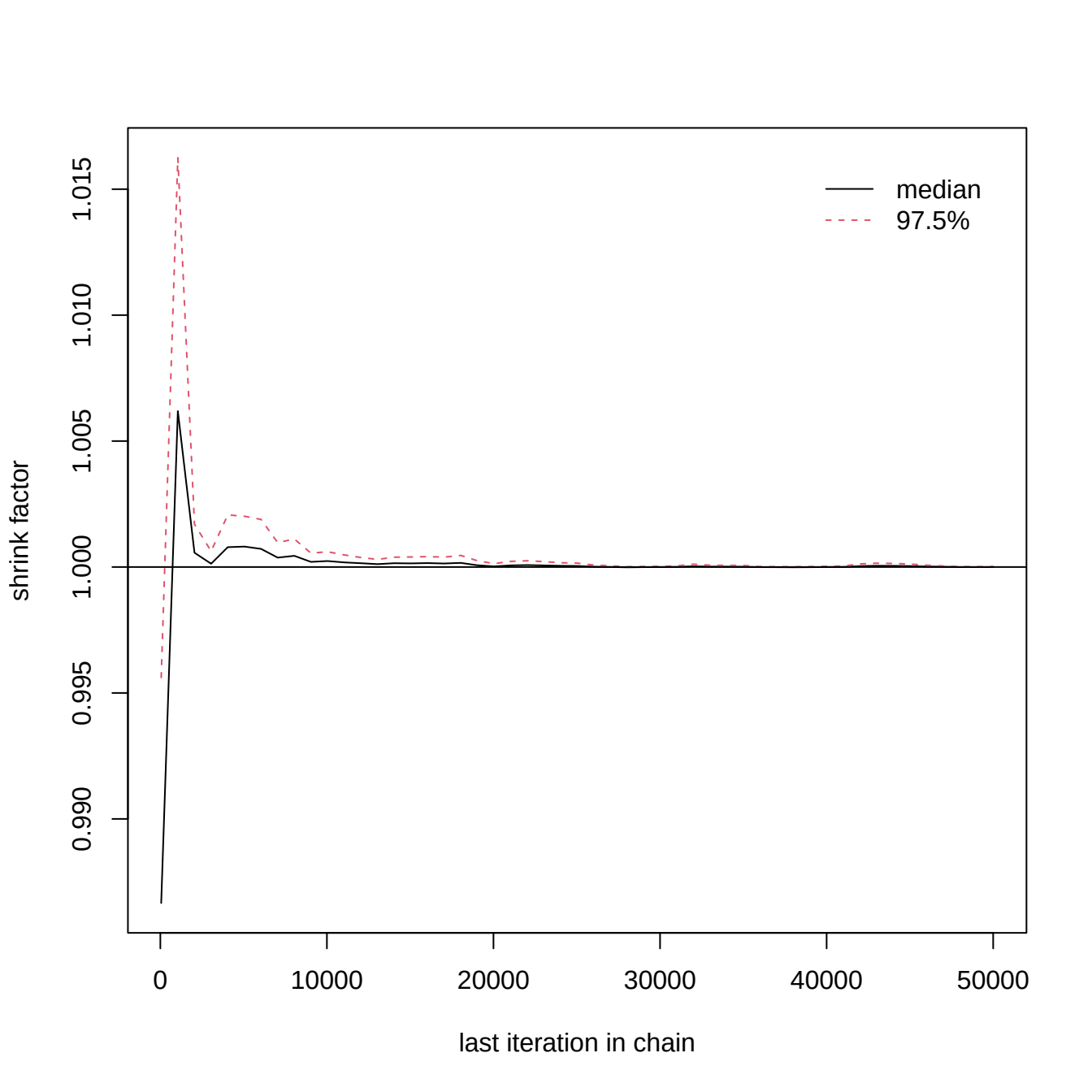
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last iteration in chain