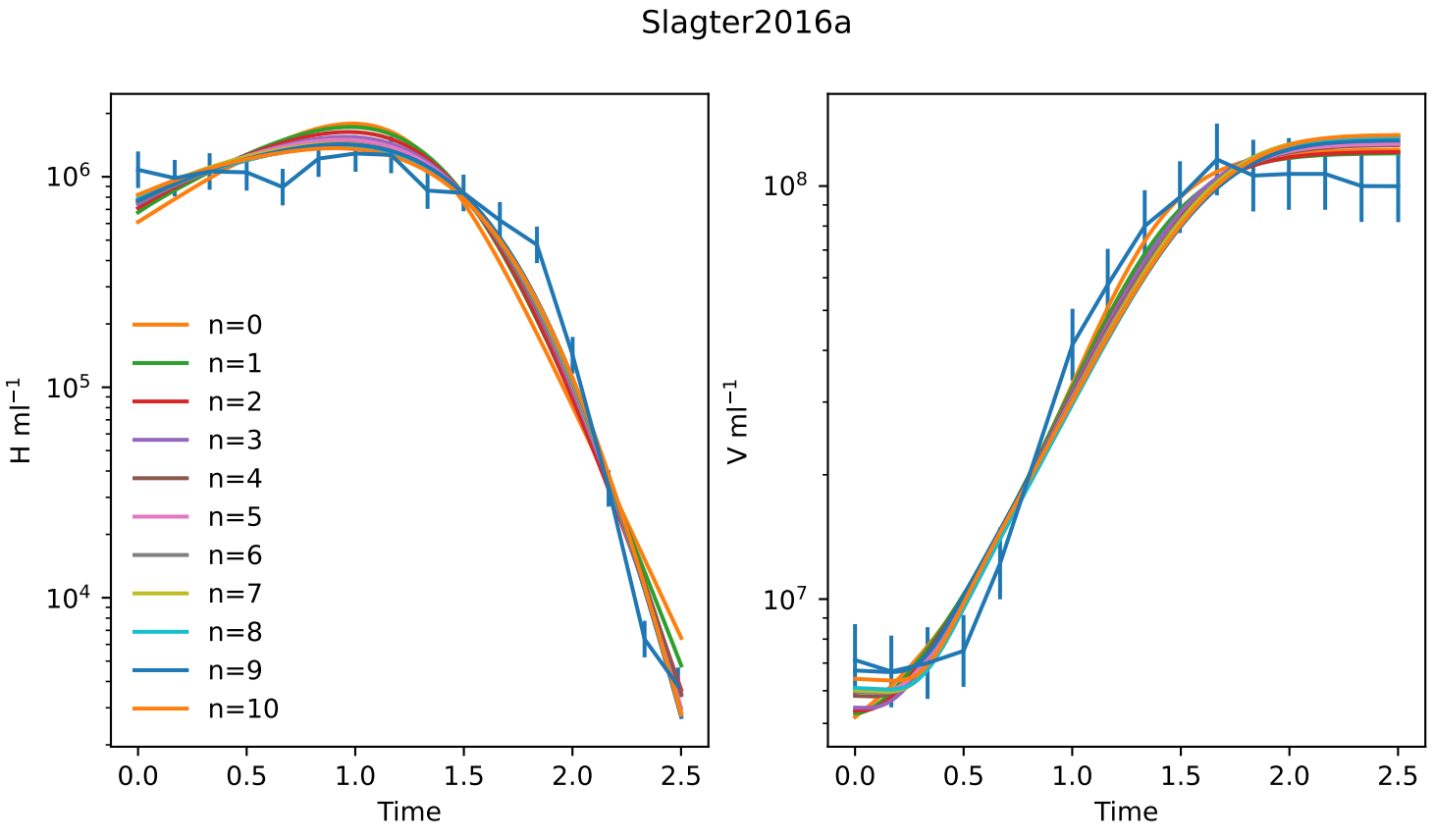
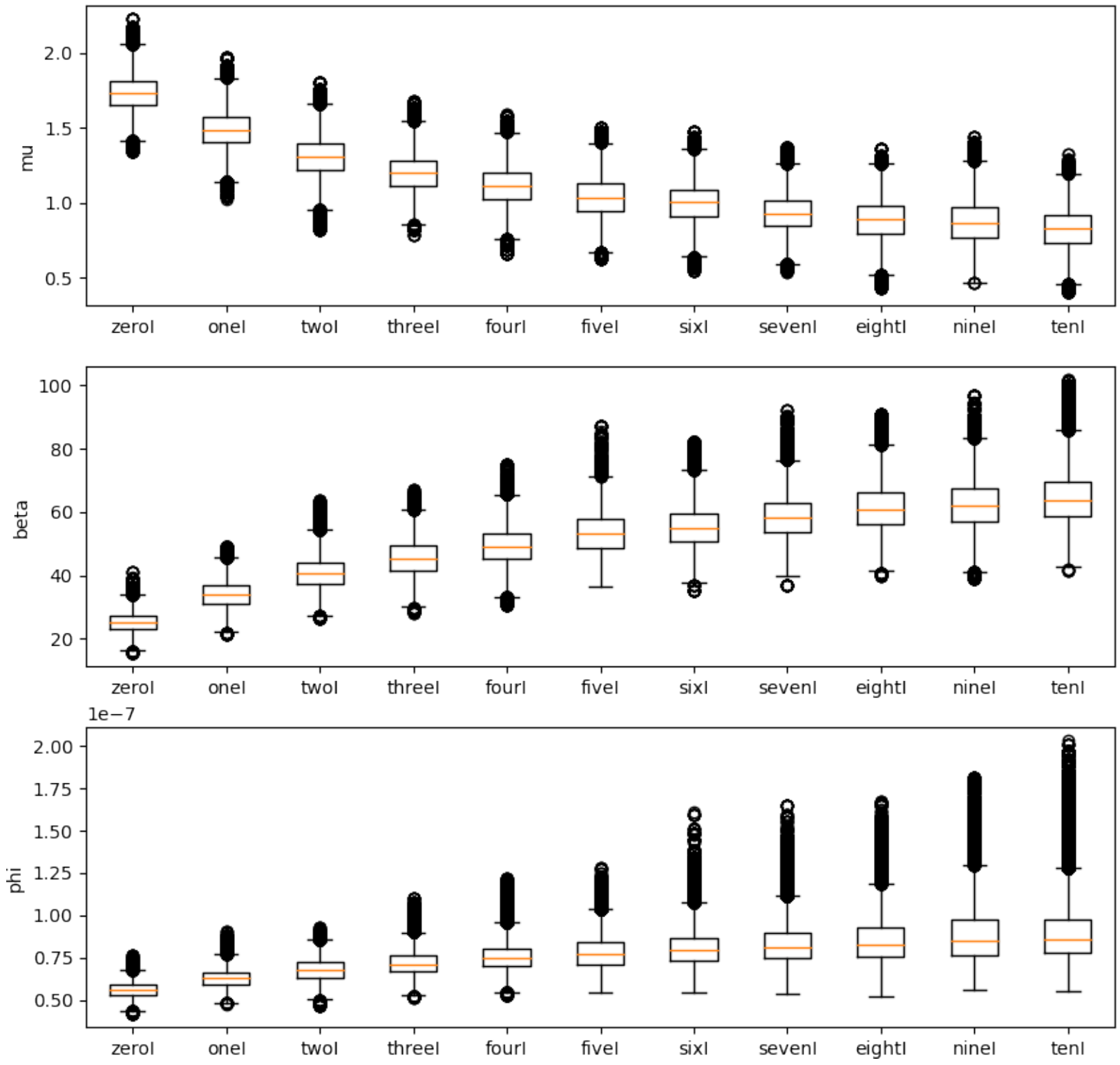
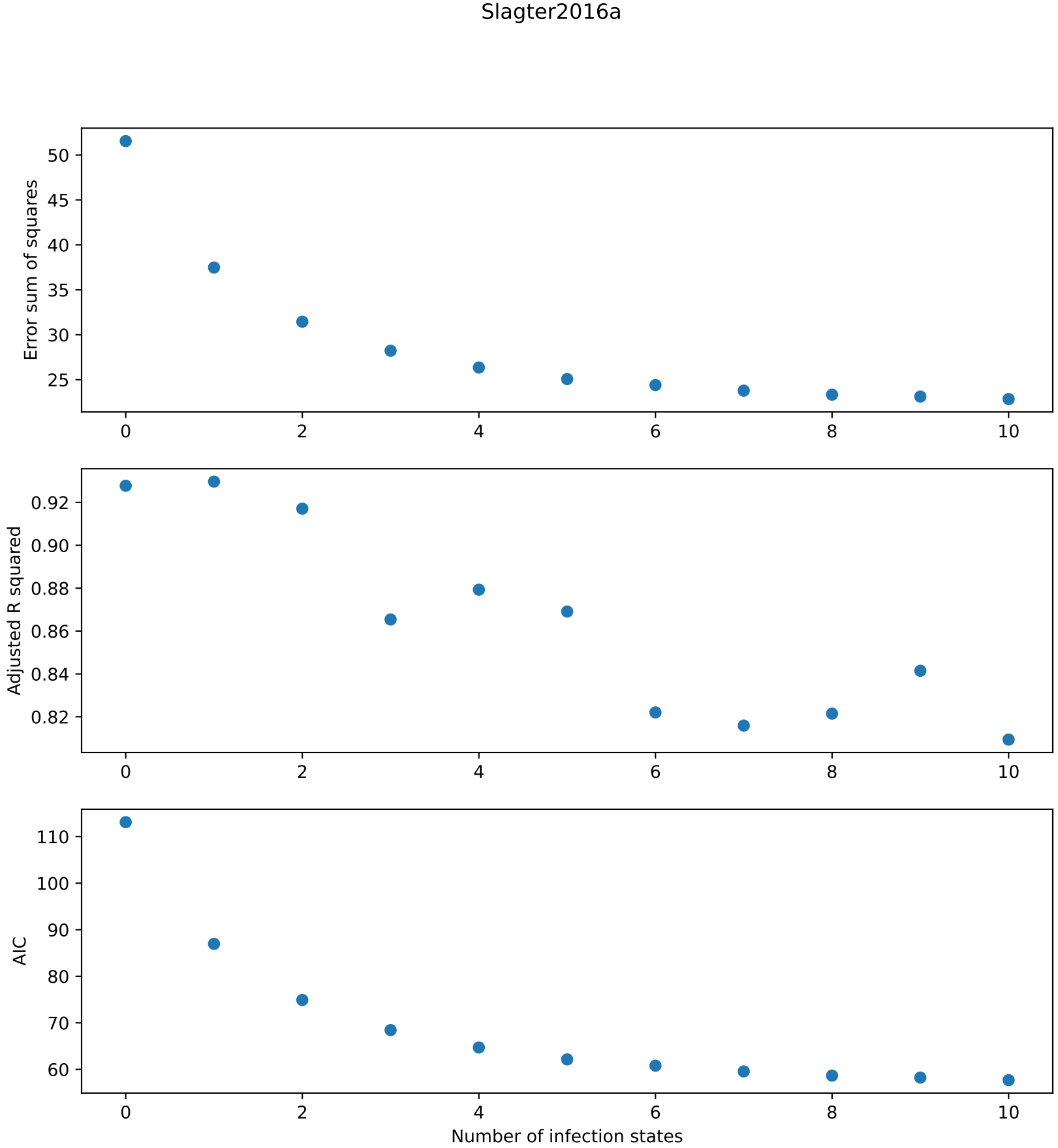
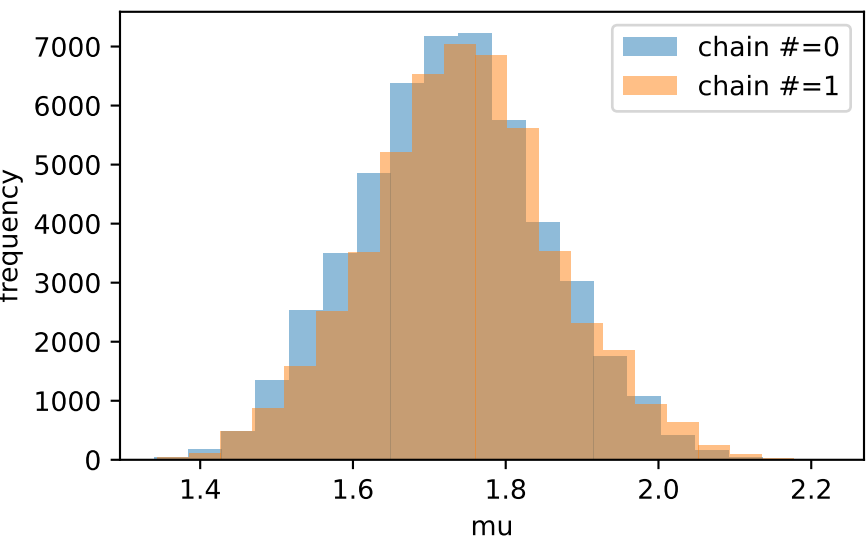

Slagter2016a
H ml^{-1}
V ml^{-1}
Time
Time
n=0
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8
n=9
n=10

Slagter2016a




Slagter2016a
Error sum of squares
50
45
40
35
30
25
0
2
4
6
8
10
Adjusted R squared
0.92
0.90
0.88
0.86
0.84
0.82
0
2
4
6
8
10
AIC
110
100
90
80
70
60
0
2
4
6
8
10
Number of infection states

zero_i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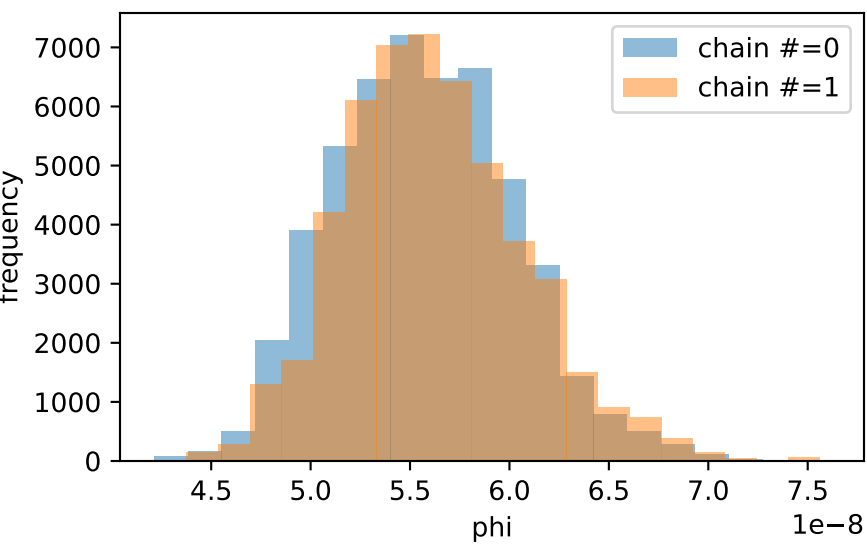
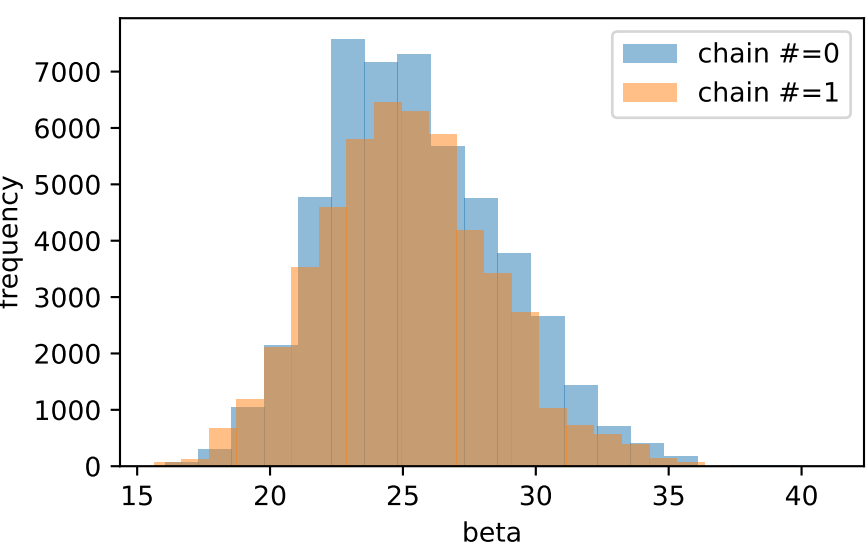
chain #=1
frequency
7000
6000
5000
4000
3000
2000
1000
0
1.4
1.6
1.8
2.0
2.2
mu


chain #=0
chain #=1
frequency
7000
6000
5000
4000
3000
2000
1000
0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
phi
1e−8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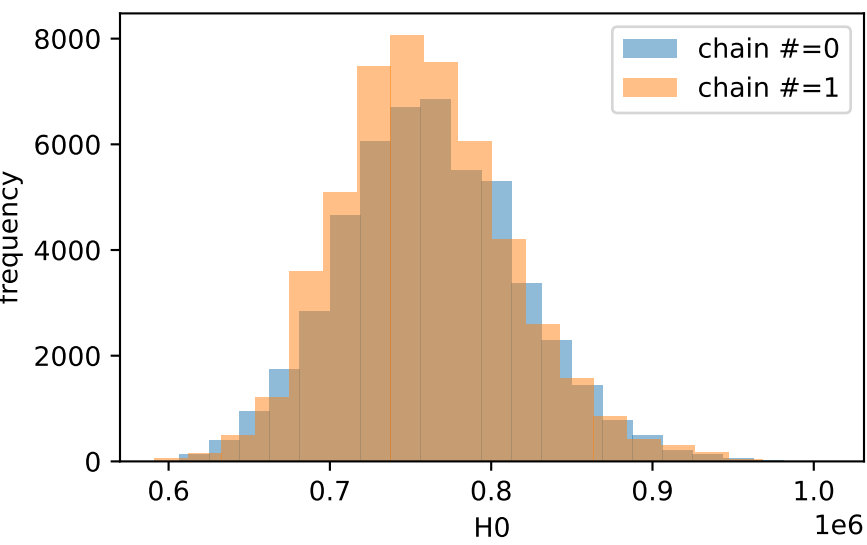
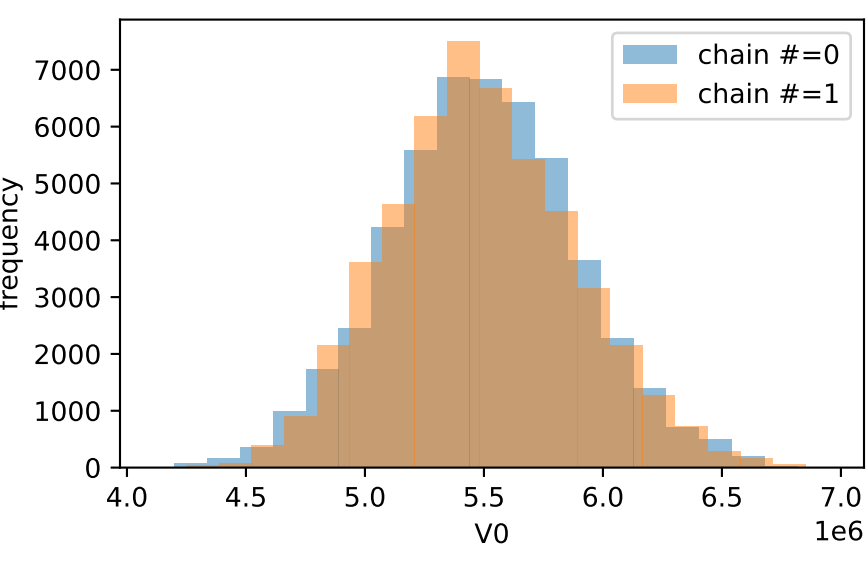
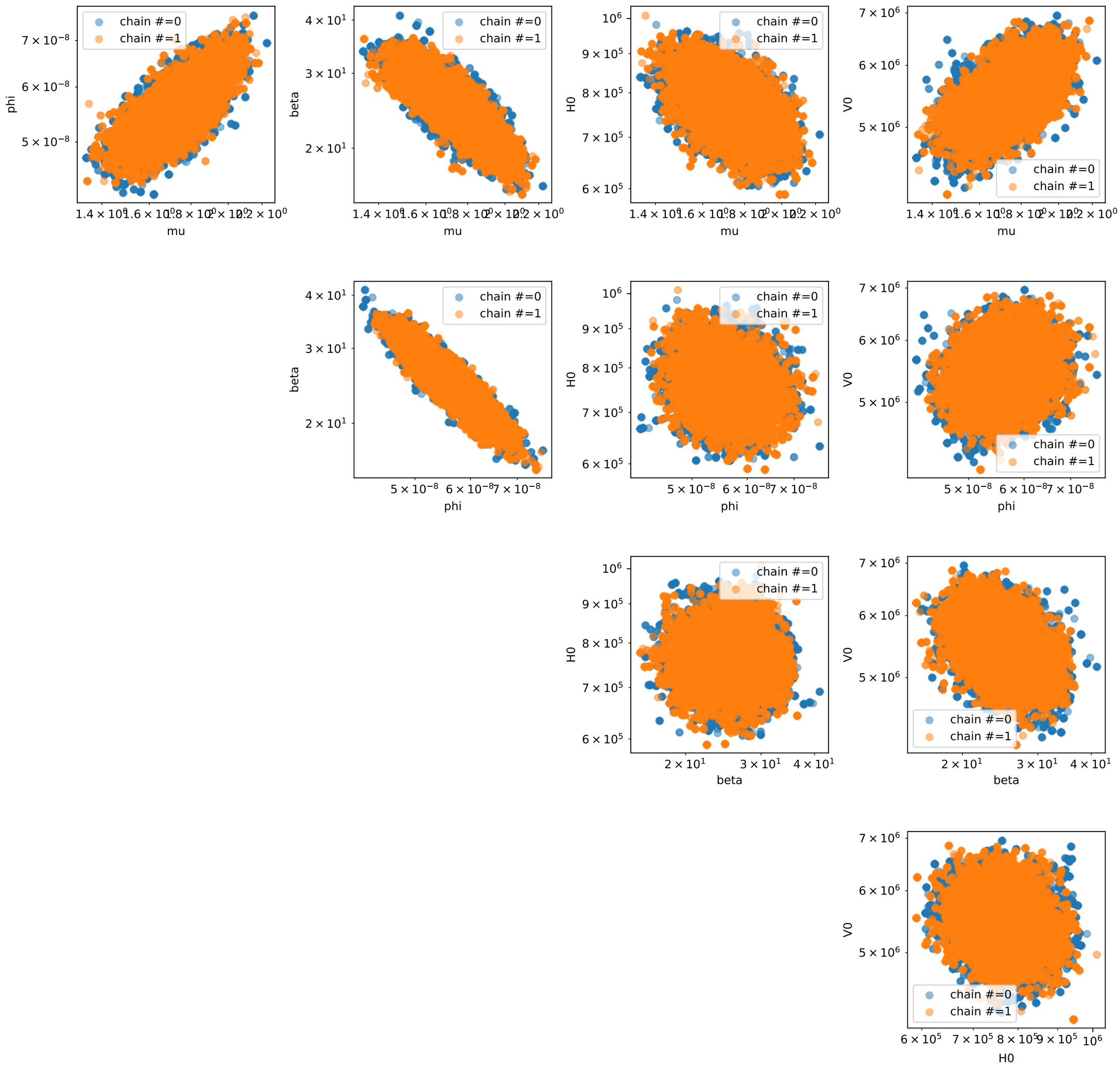
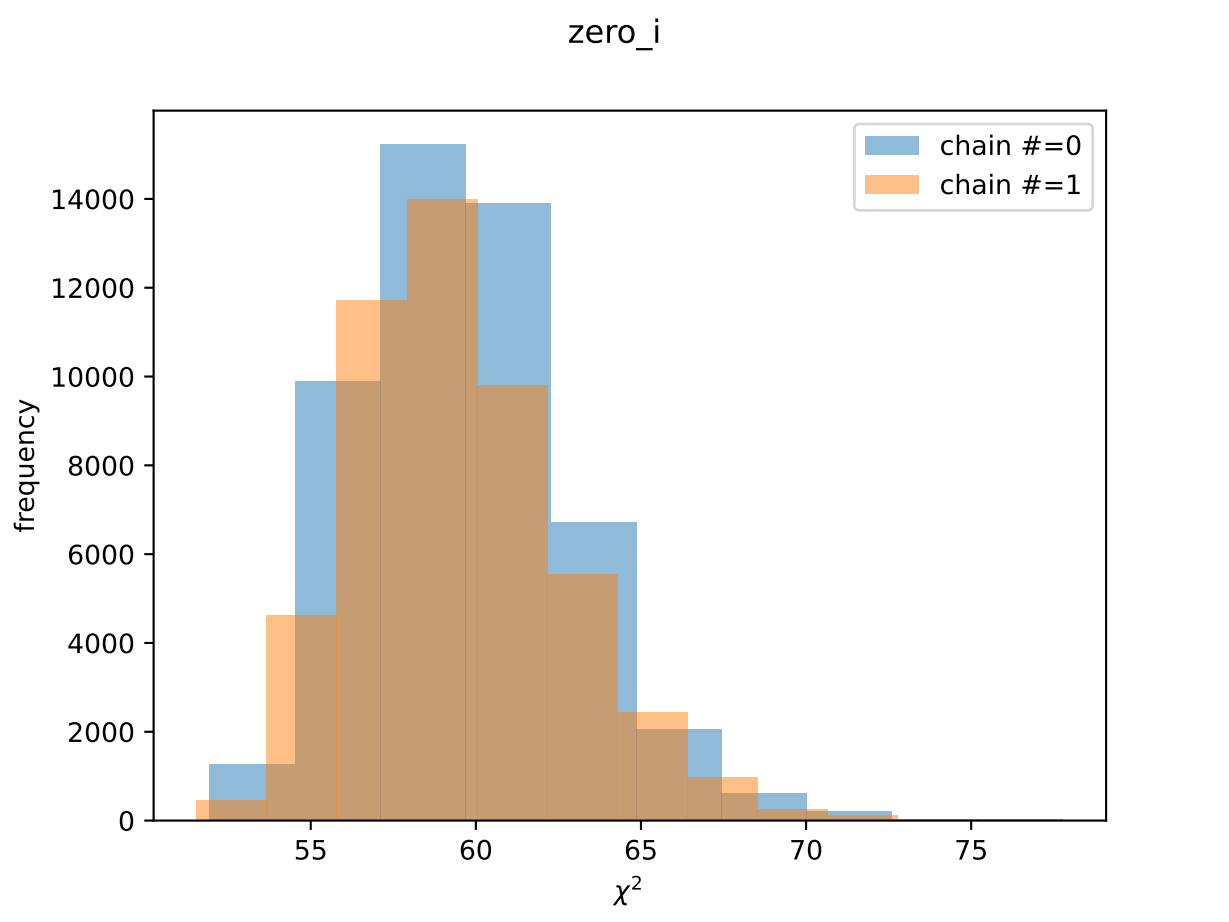
chain #=1
frequency
7000
6000
5000
4000
3000
2000
1000
0
15
20
25
30
35
40
beta

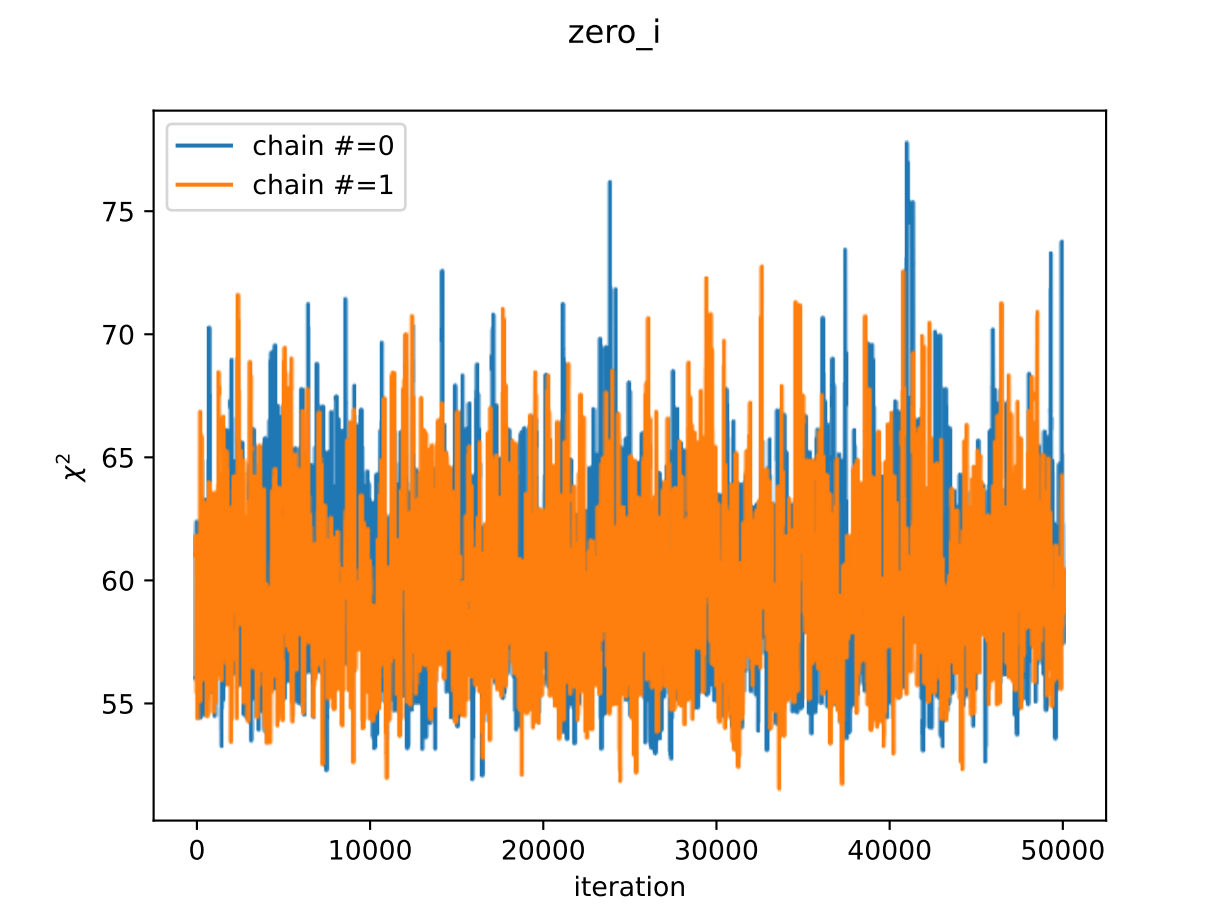

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.6
0.7
0.8
0.9
1.0
H0
1e6


chain #=0
chain #=1
frequency
7000
6000
5000
4000
3000
2000
1000
0
4.0
4.5
5.0
5.5
6.0
6.5
7.0
V0
1e6

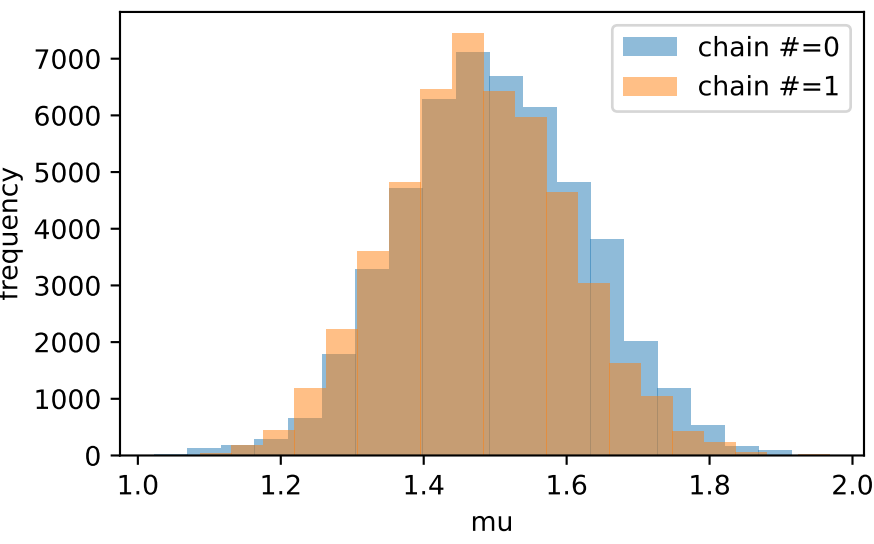
zero_i




zero_i
chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
frequency
55
60
65
70
75
χ^2


zero_i
chain #=0
chain #=1
75
70
65
60
55
χ^2
0
10000
20000
30000
40000
50000
iteration

one_i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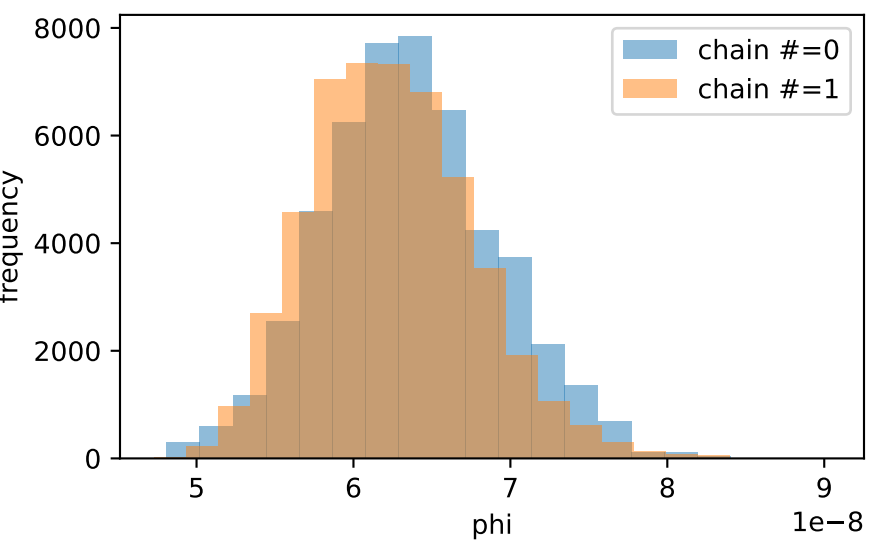
chain #=1
frequency
mu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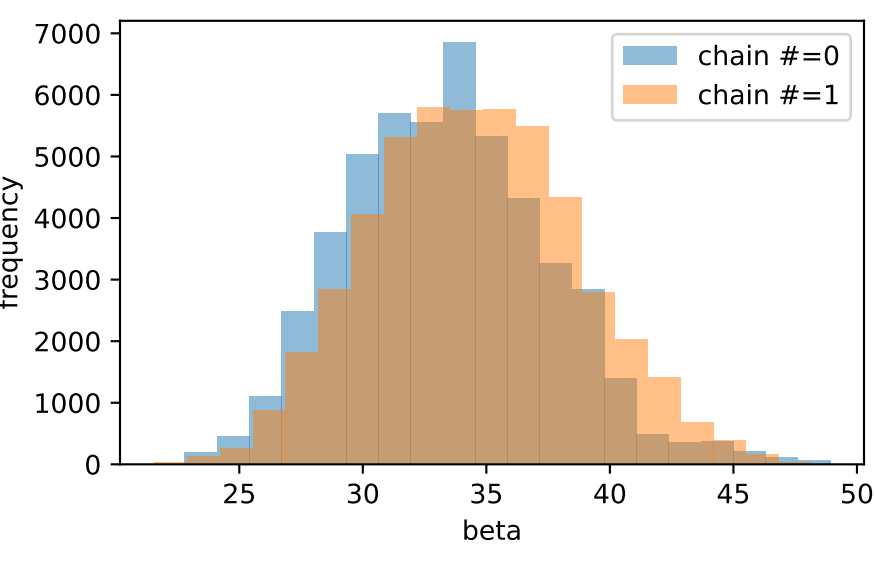
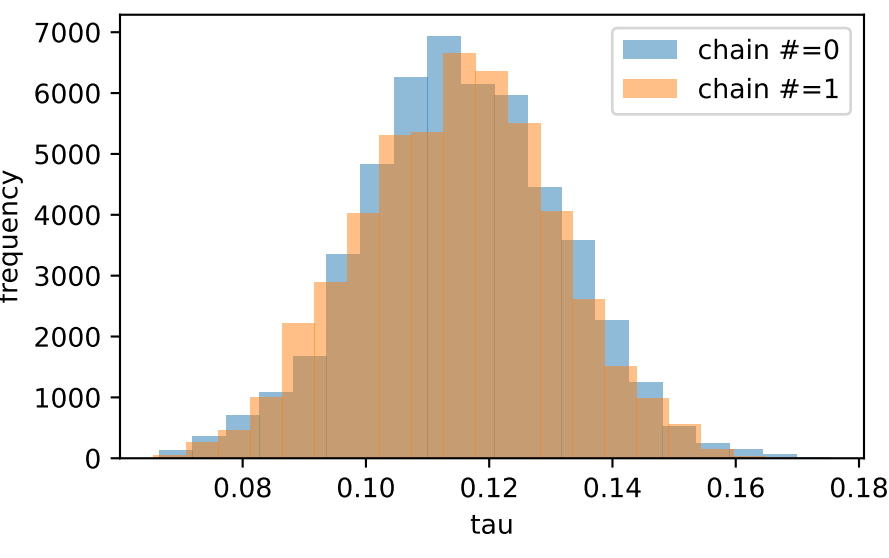
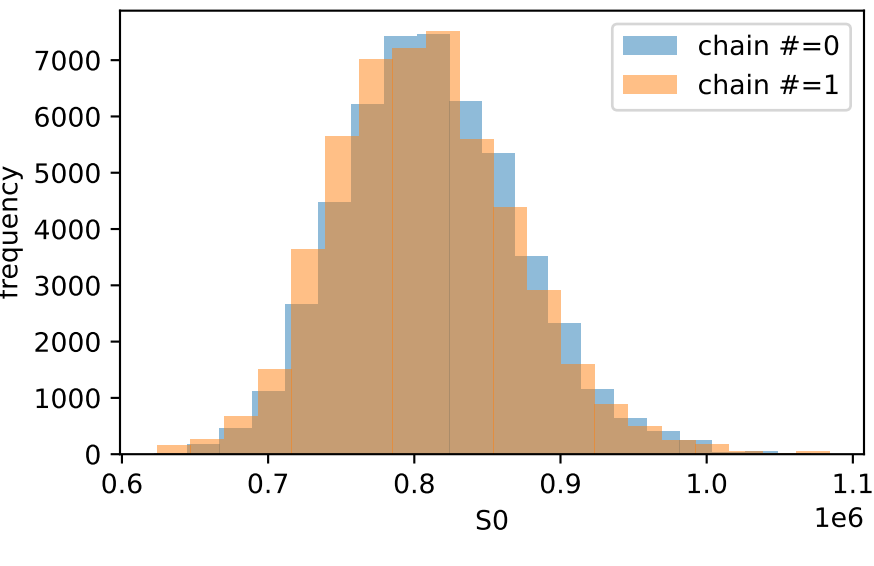
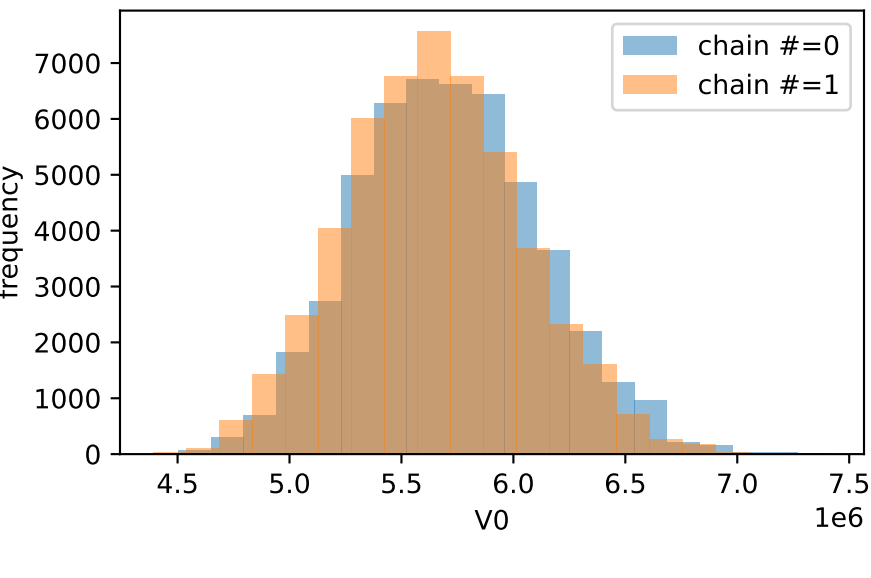
chain #=1
frequency
phi
1e−8

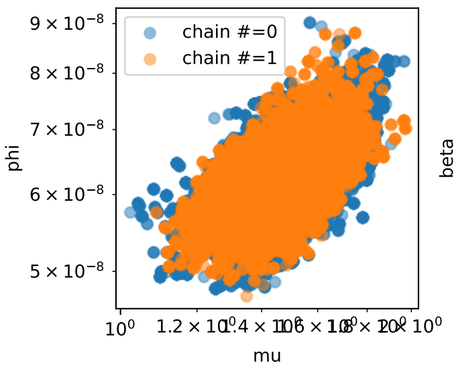

chain #=0
chain #=1
frequency
beta

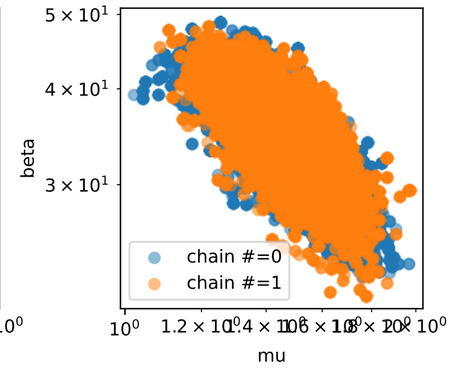

chain #=0
chain #=1
frequency
tau

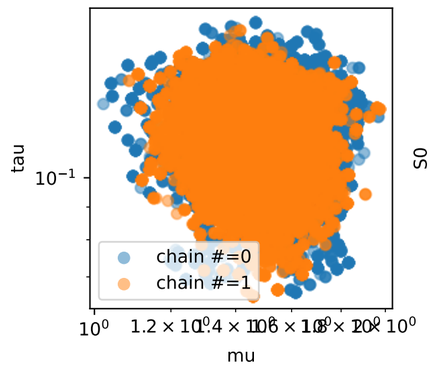

chain #=0
chain #=1
frequency
S0
1e6

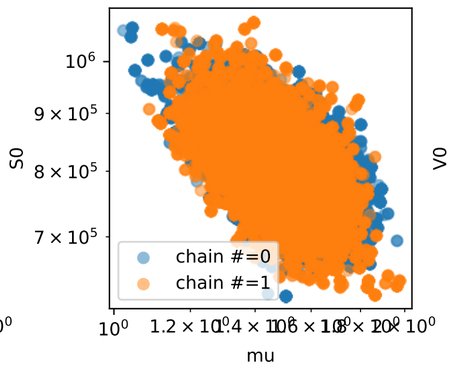

chain #=0
chain #=1
frequency
V0
1e6

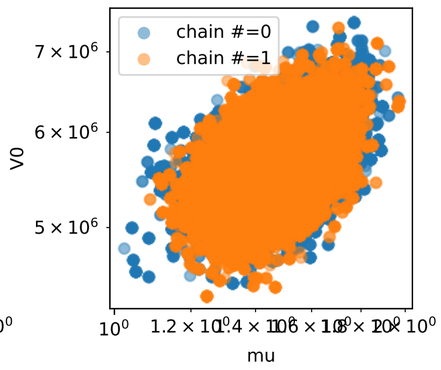
one_i

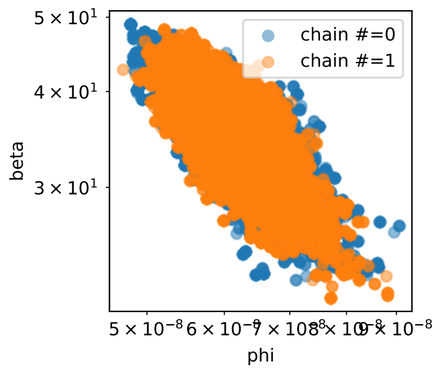

chain #=0
chain #=1
phi
mu


chain #=0
chain #=1
beta
mu


chain #=0
chain #=1
tau
mu


chain #=0
chain #=1
S0
mu


chain #=0
chain #=1
V0
mu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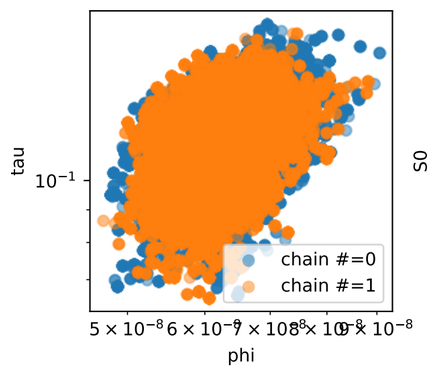
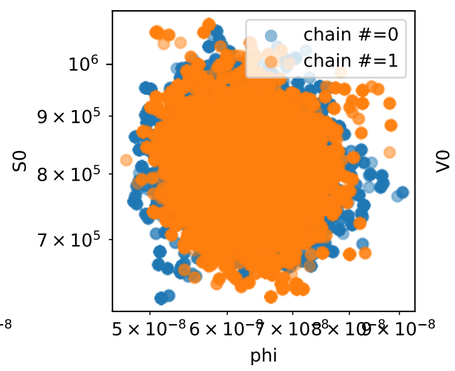
chain #=1
beta
phi


chain #=0
chain #=1
tau
phi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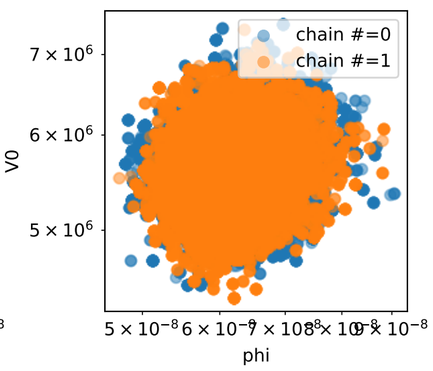
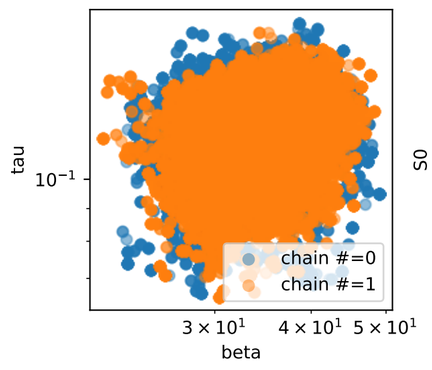
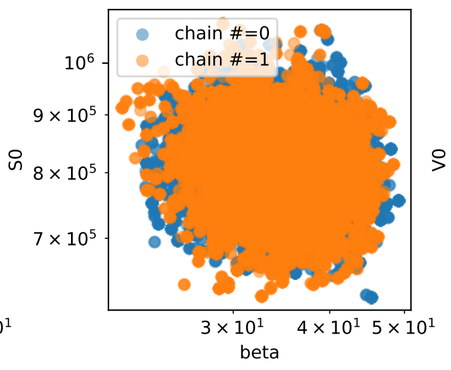
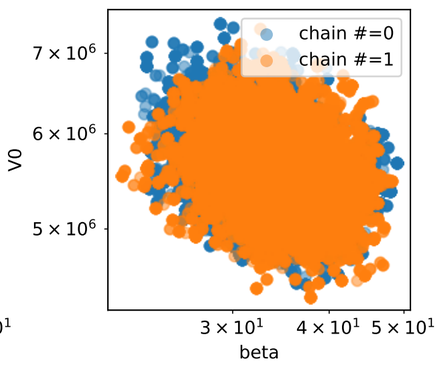
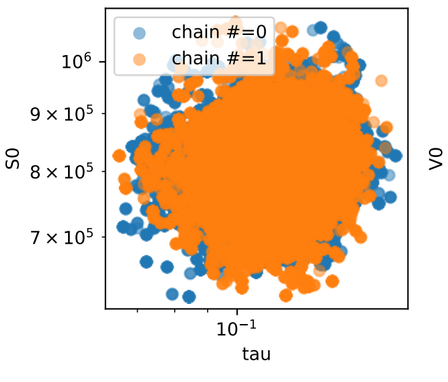
chain #=1
S0
phi

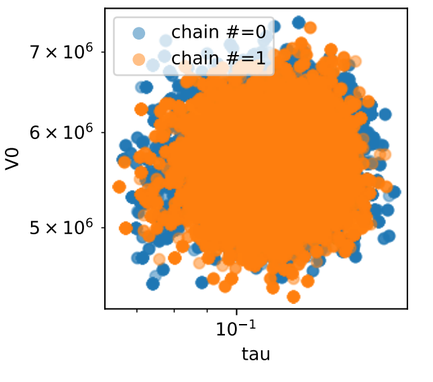

chain #=0
chain #=1
V0
phi

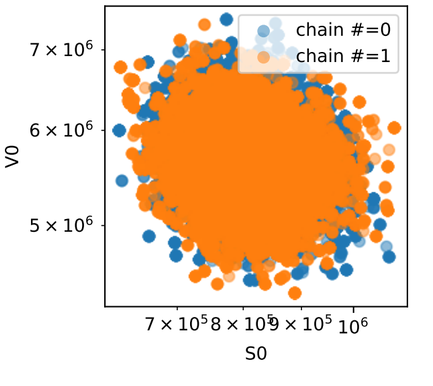

chain #=0
chain #=1
tau
beta


chain #=0
chain #=1
S0
beta


chain #=0
chain #=1
V0
beta


chain #=0
chain #=1
S0
tau


chain #=0
chain #=1
V0
tau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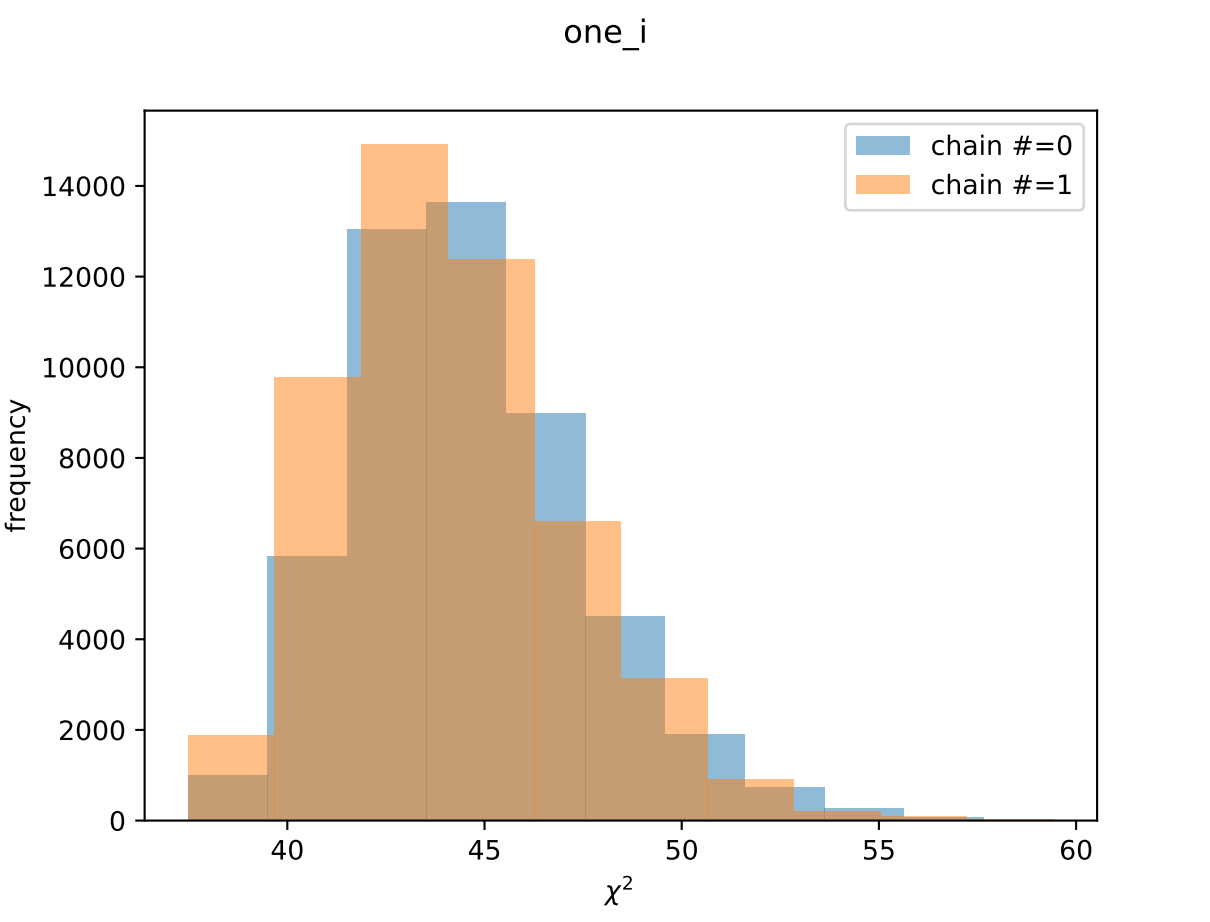
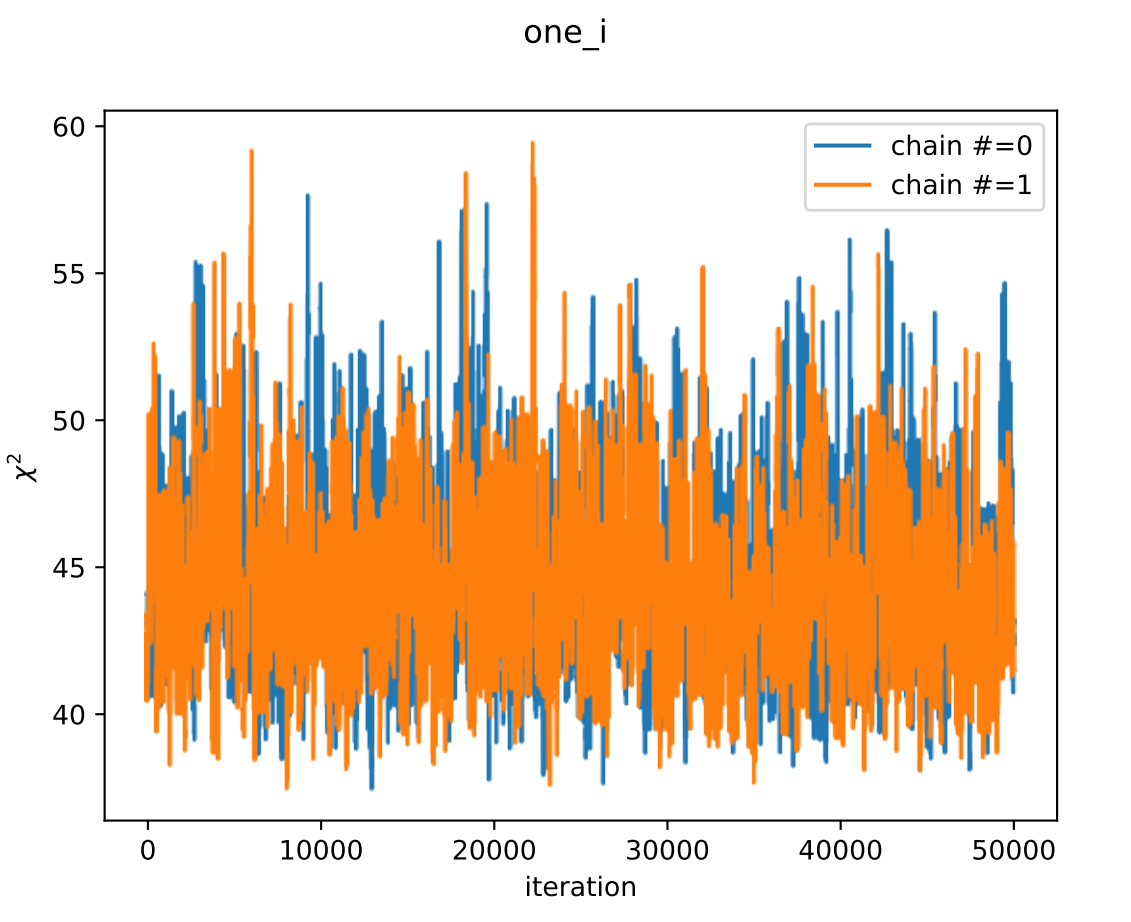
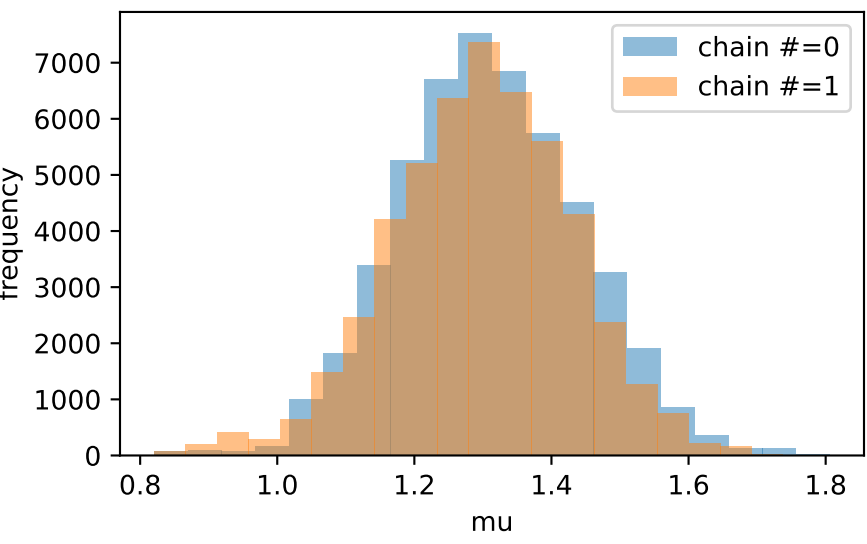
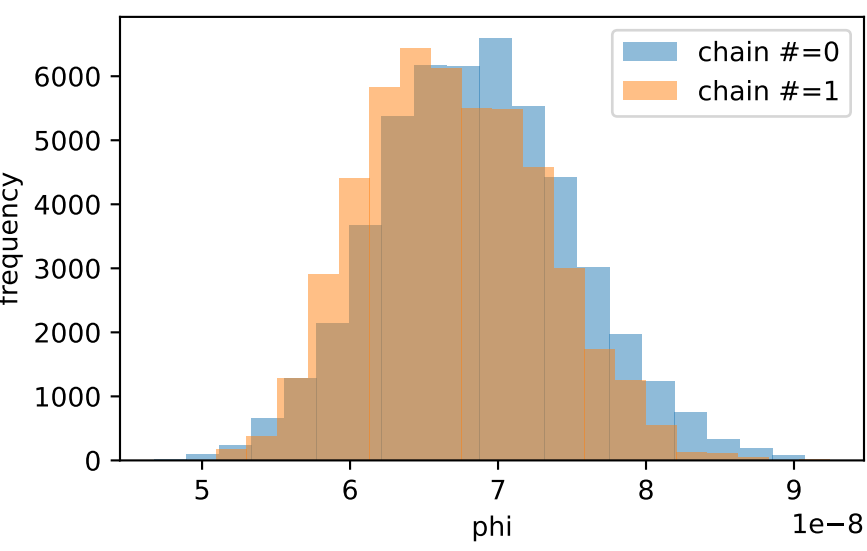
chain #=1
V0
S0

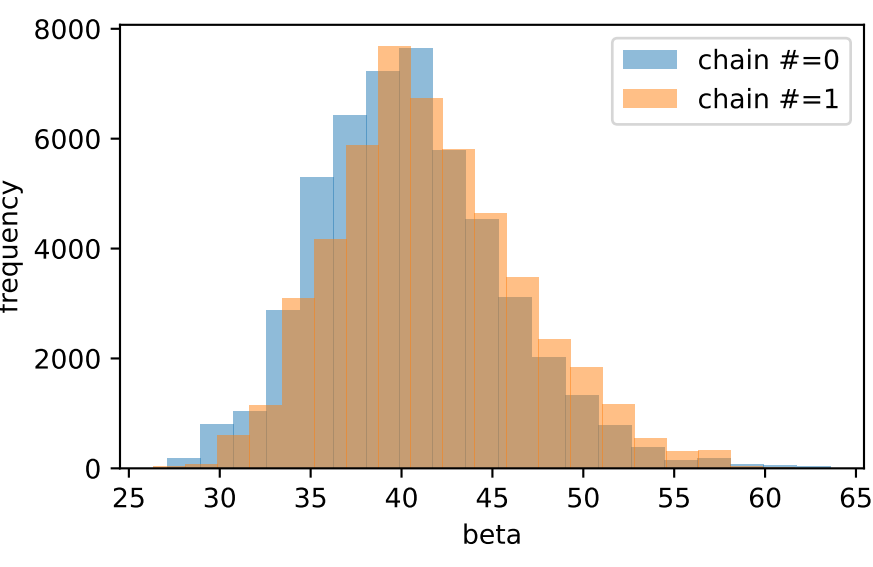

one_i
chain #=0
chain #=1
frequency
14000
12000
10000
8000
6000
4000
2000
0
40
45
50
55
60
χ^2

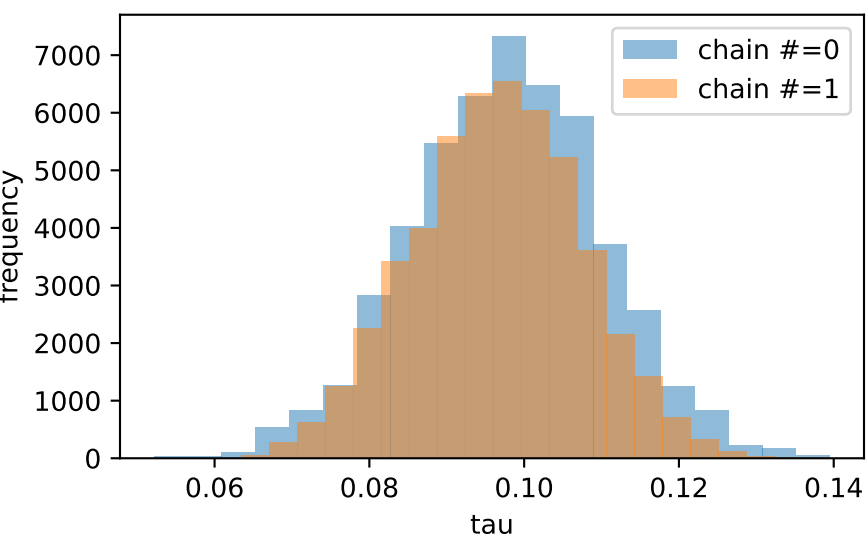

one_i
chain #=0
chain #=1
60
55
50
45
40
χ^2
0
10000
20000
30000
40000
50000
iteration

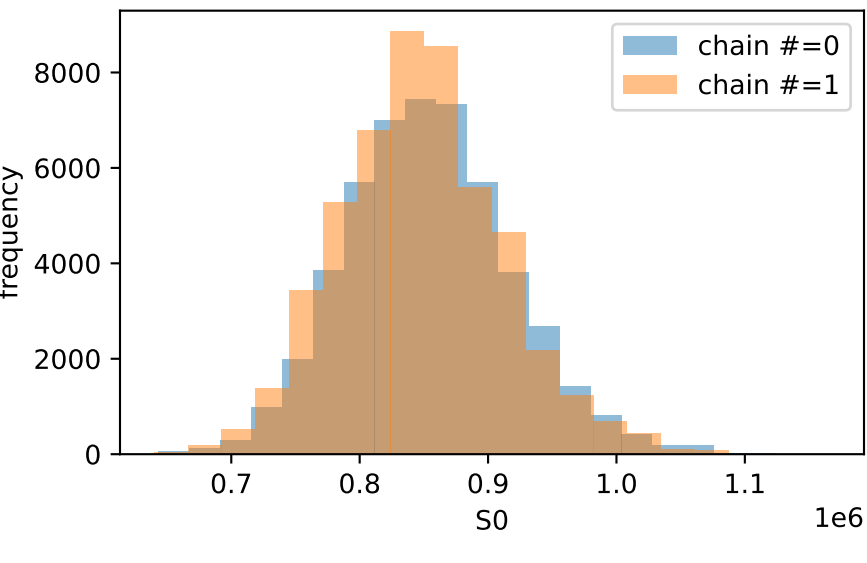
two_i

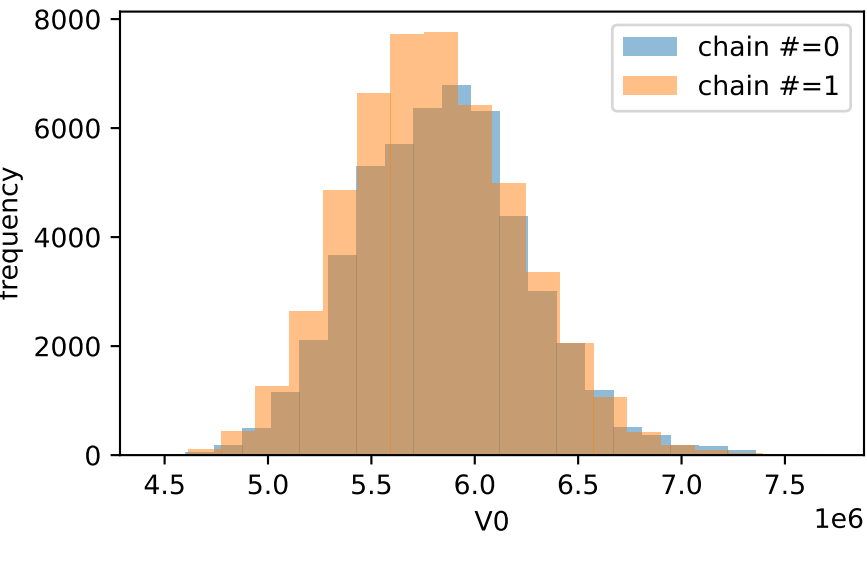

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
frequency
phi
1e−8

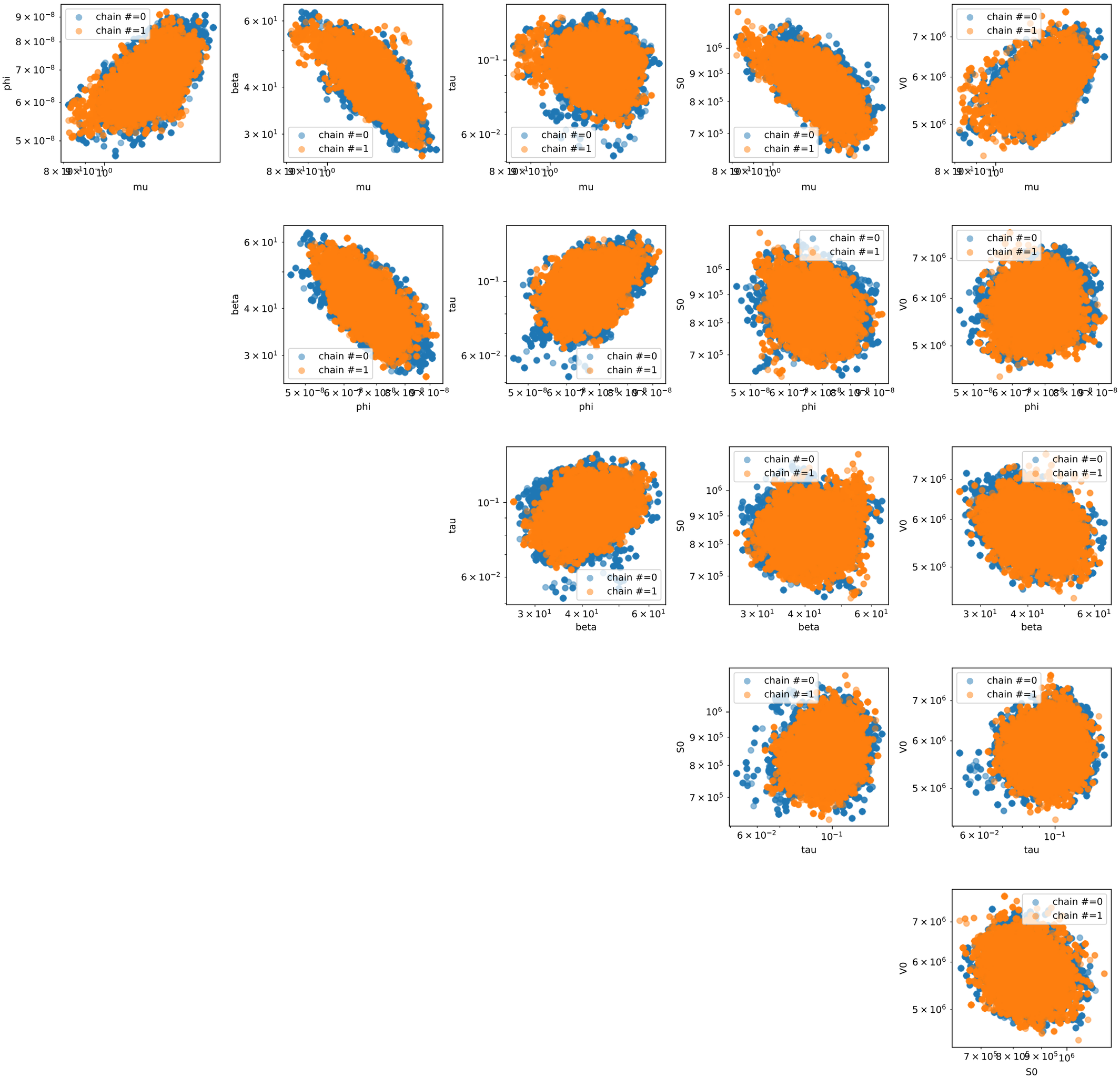

chain #=0
chain #=1
frequency
beta

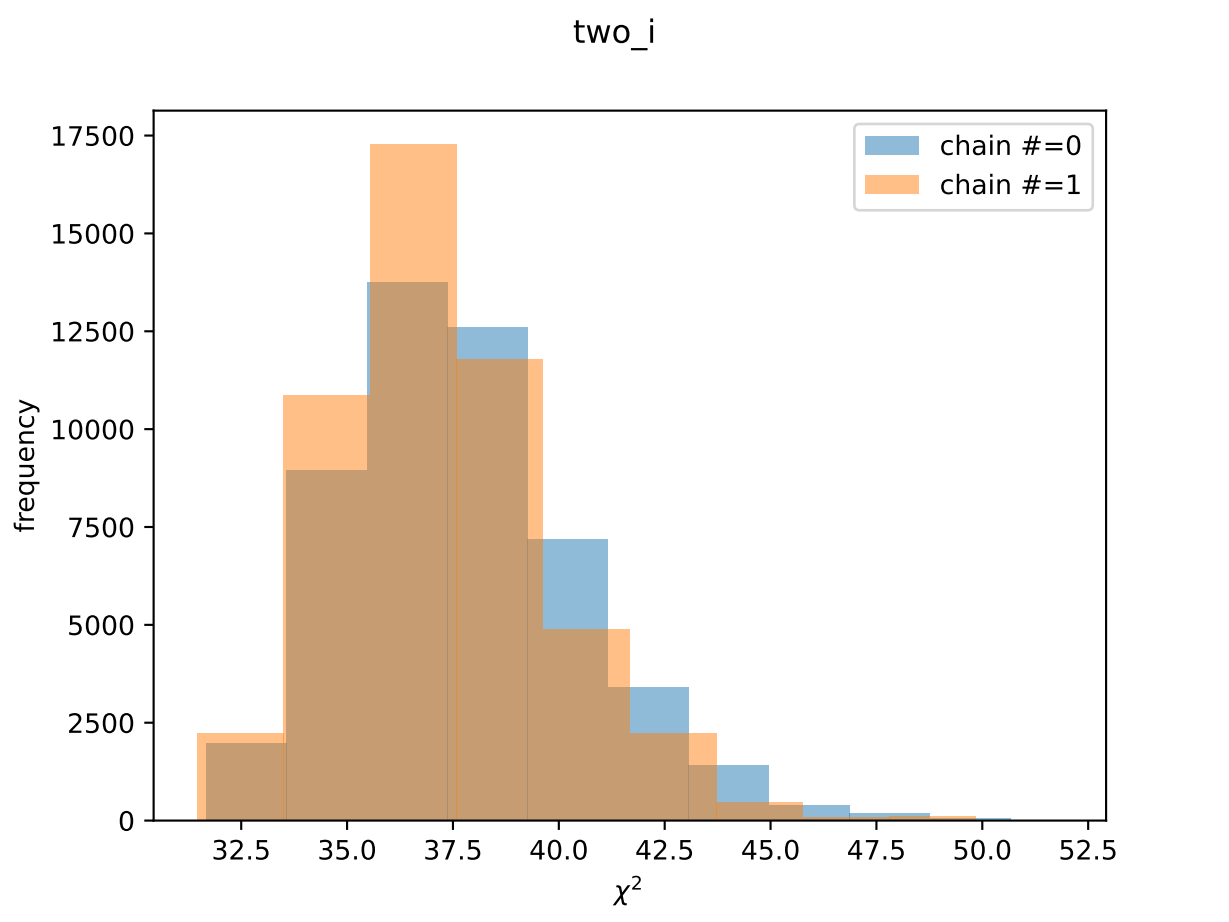

chain #=0
chain #=1
frequency
tau


chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

two_i




two_i
chain #=0
chain #=1
frequency
17500
15000
12500
10000
7500
5000
2500
0
32.5
35.0
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40.0
42.5
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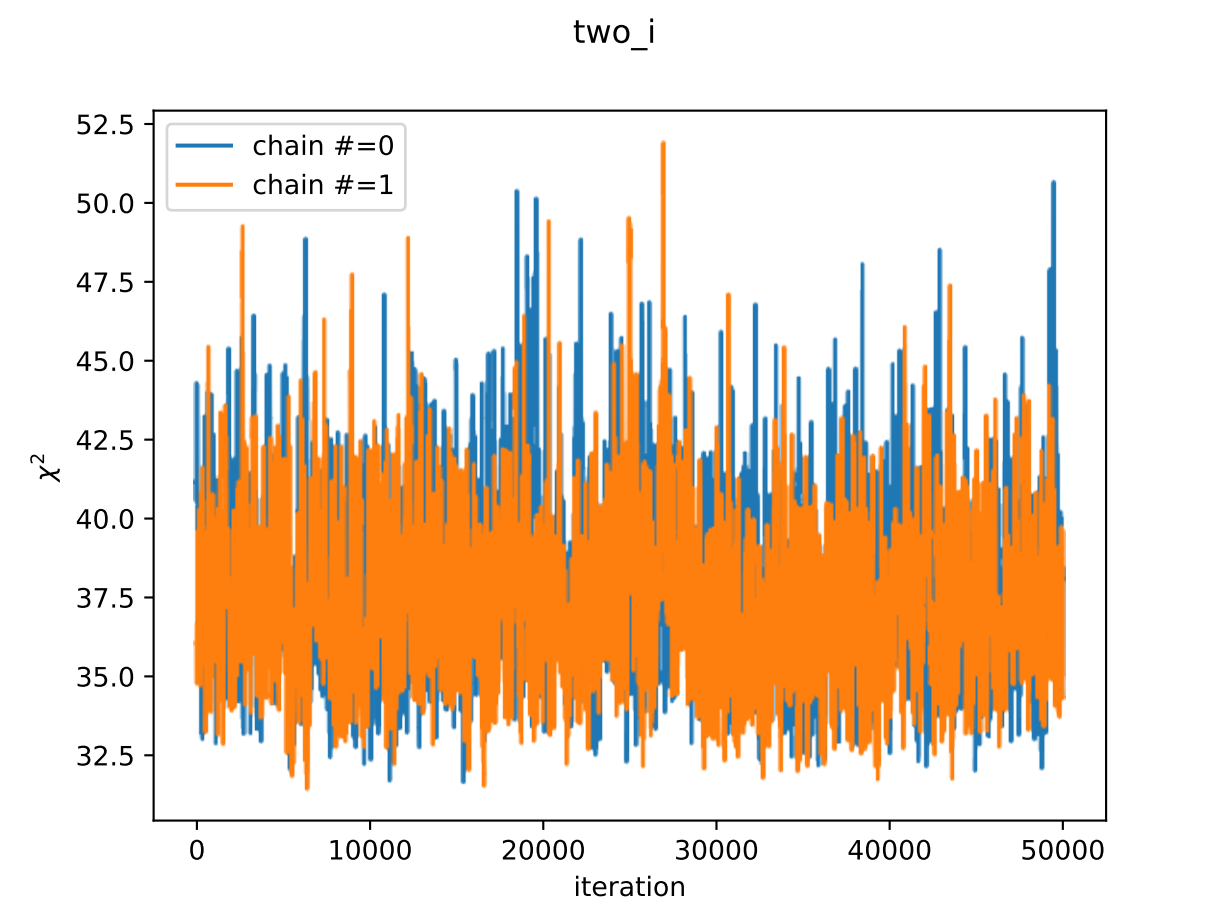
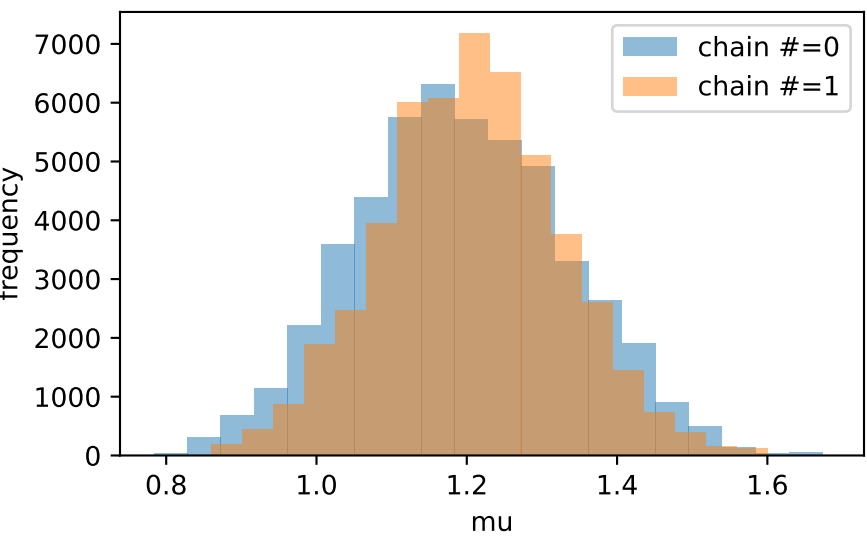
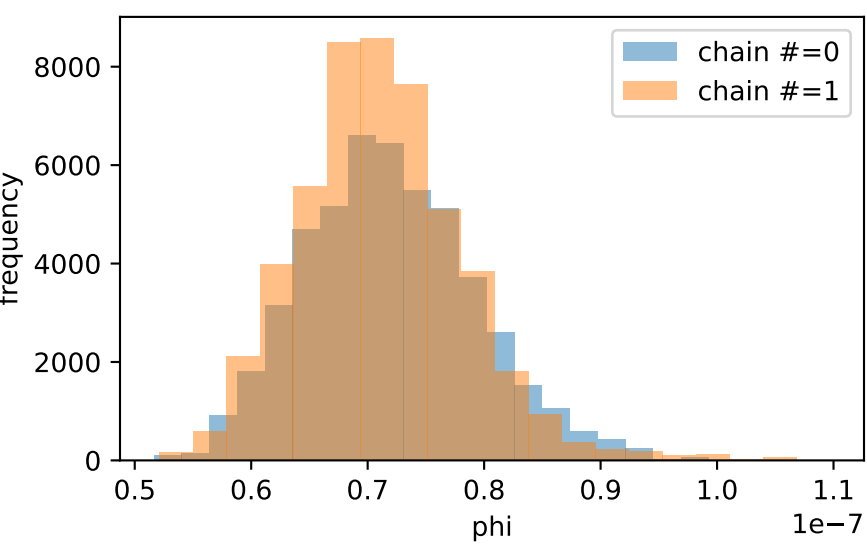
50.0
52.5
χ^2


two_i
chain #=0
chain #=1
52.5
50.0
47.5
45.0
42.5
40.0
37.5
35.0
32.5
χ^2
0
10000
20000
30000
40000
50000
iteration

three_i


chain #=0
chain #=1
frequency
mu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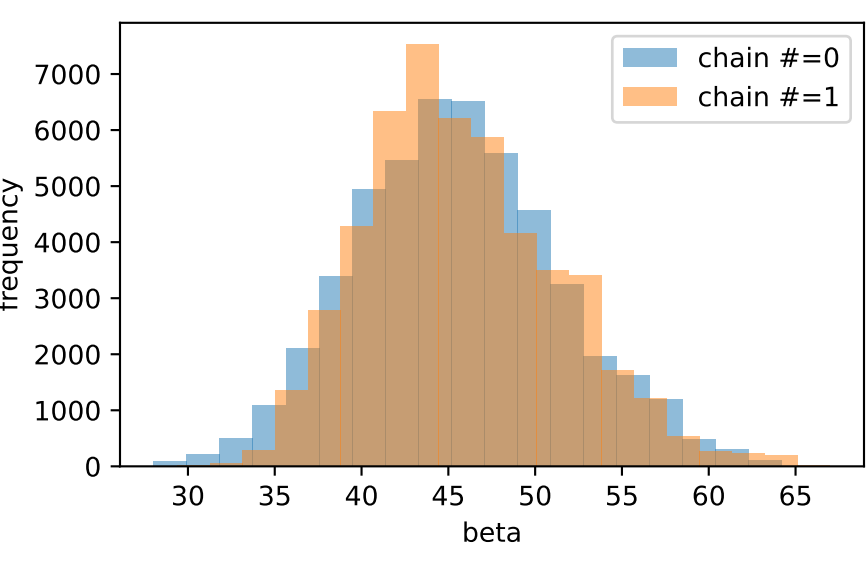
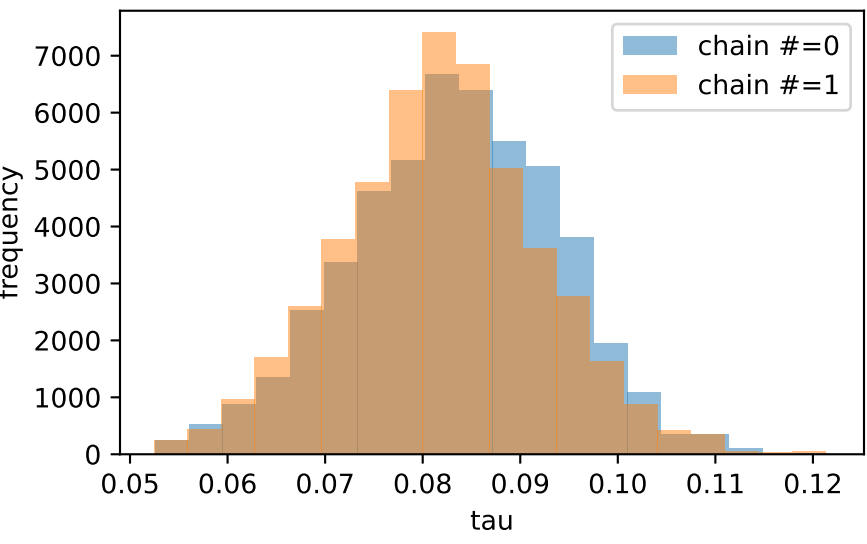
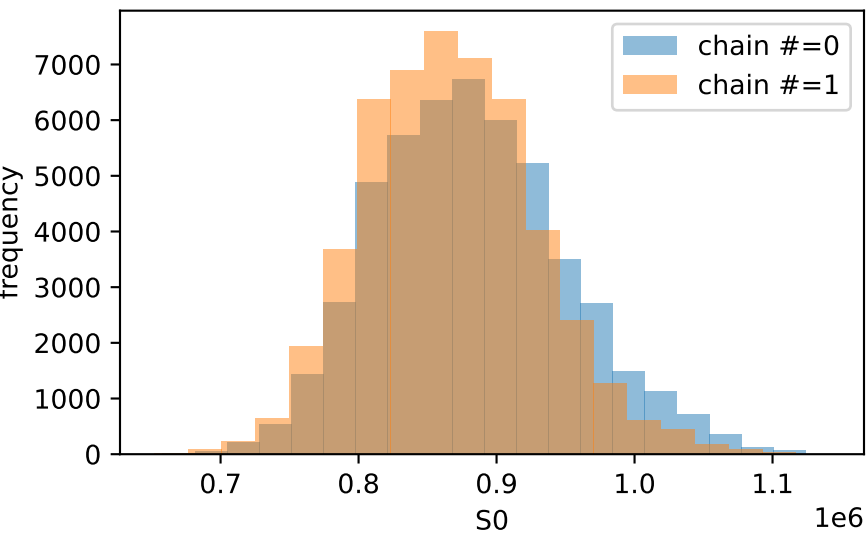
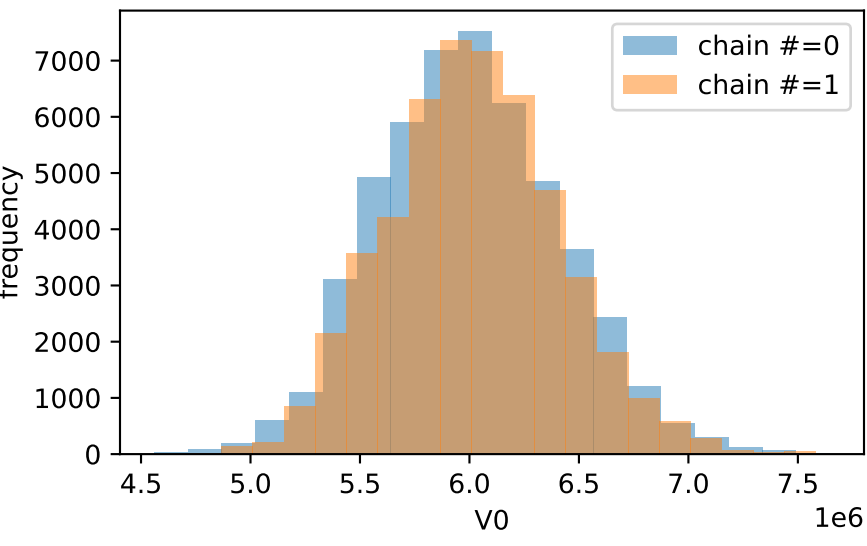
chain #=1
frequency
phi
1e−7

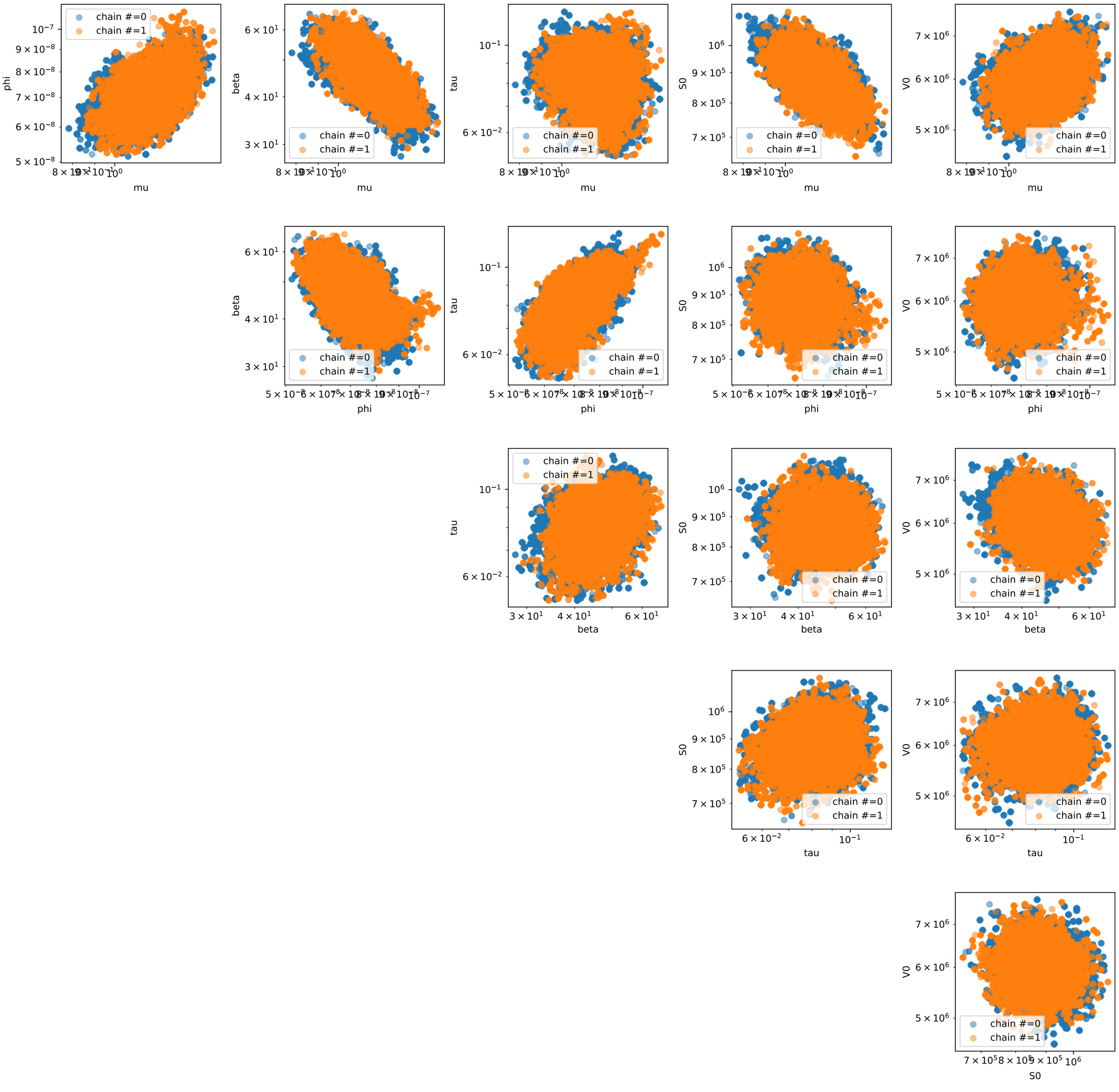

chain #=0
chain #=1
frequency
beta

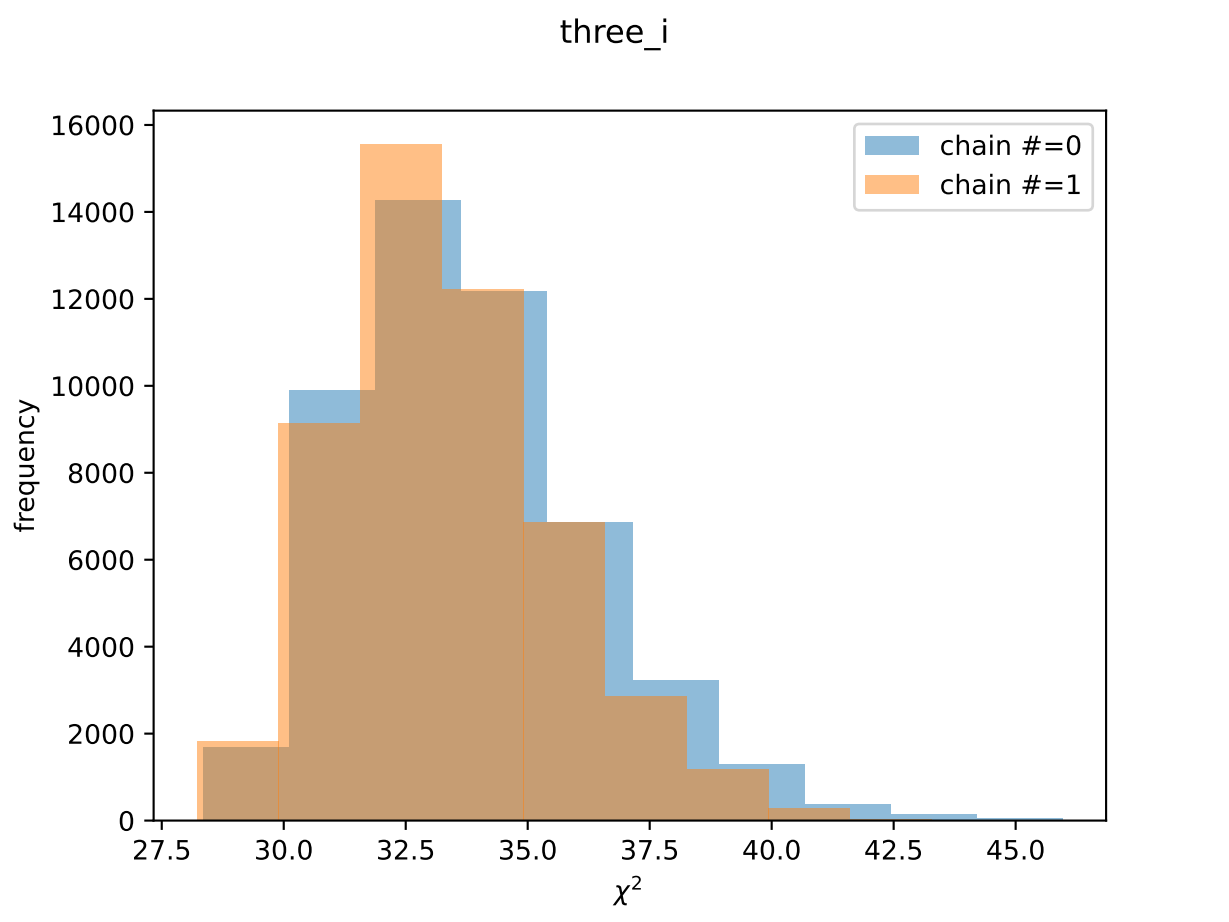

chain #=0
chain #=1
frequency
tau

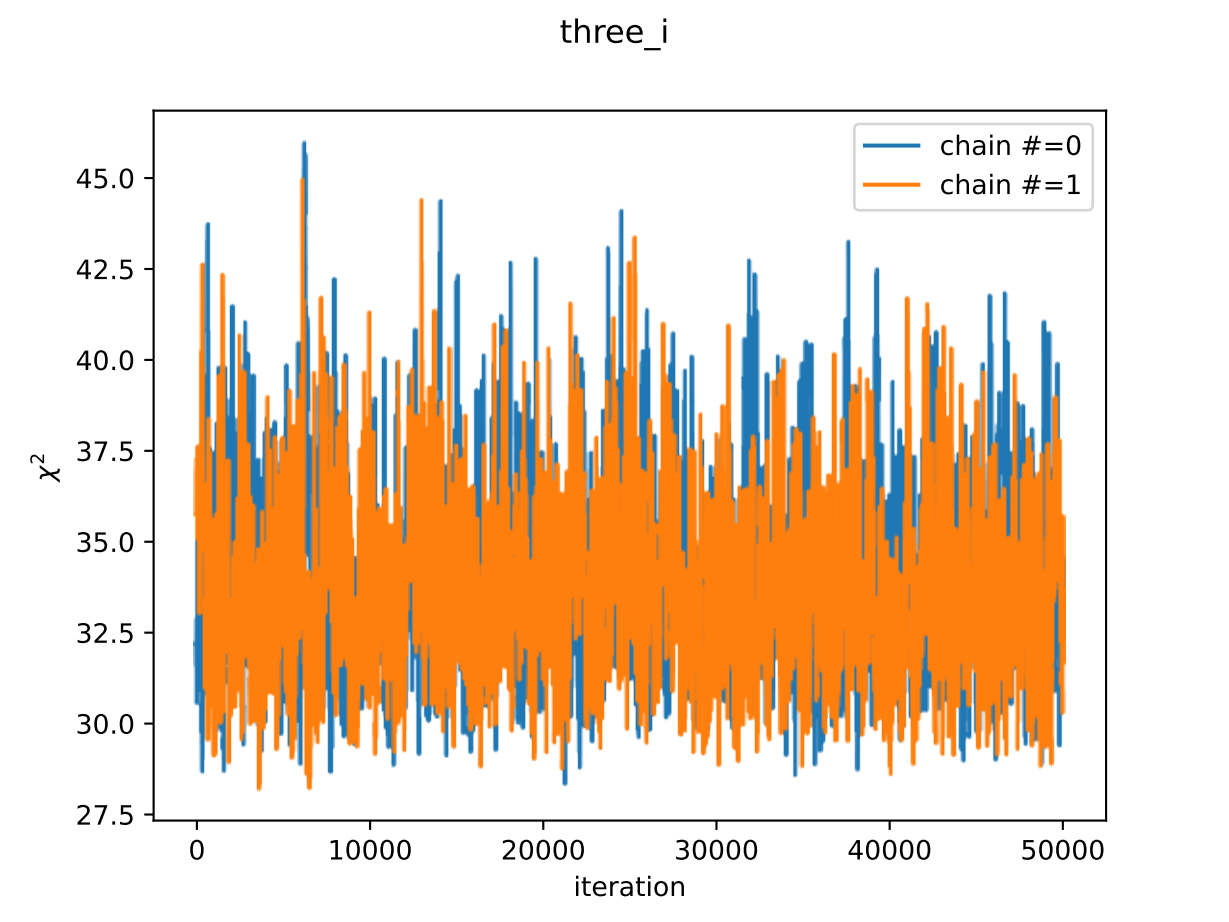

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

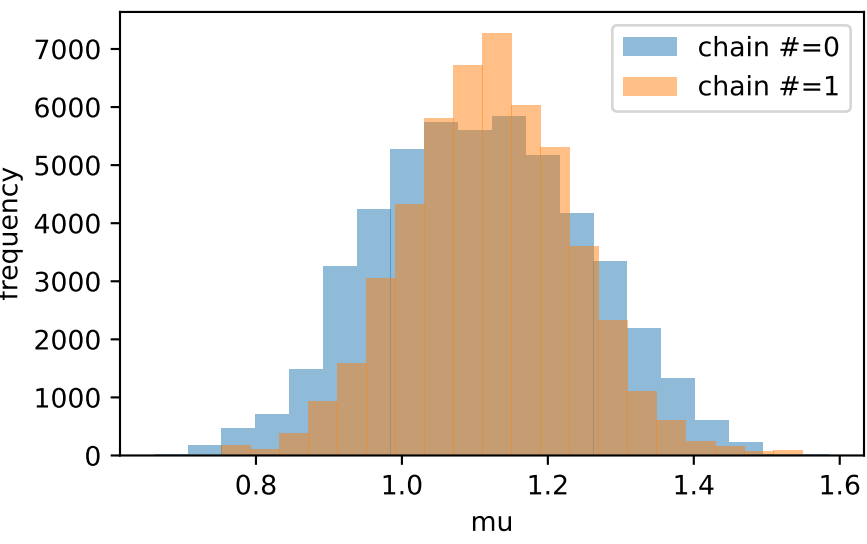
three_i

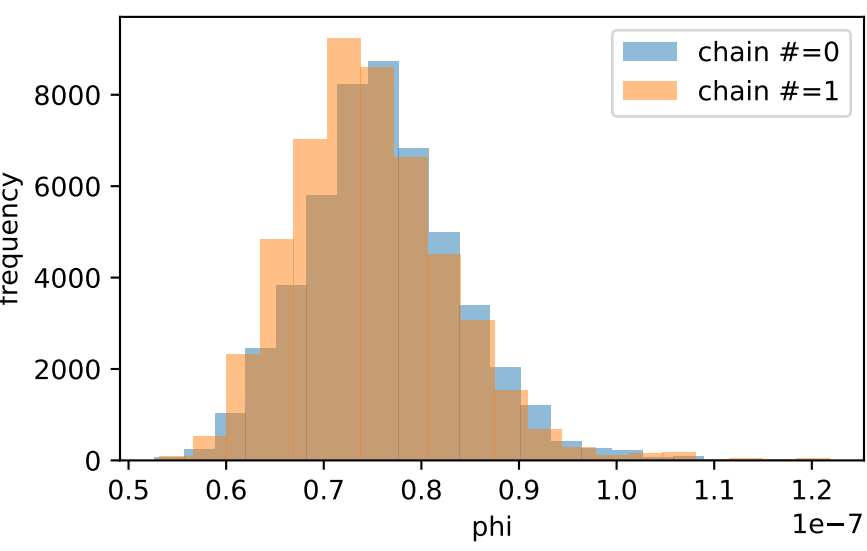



three_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
27.5
30.0
32.5
35.0
37.5
40.0
42.5
45.0
χ^2


three_i
chain #=0
chain #=1
45.0
42.5
40.0
37.5
35.0
32.5
30.0
27.5
χ^2
0
10000
20000
30000
40000
50000
iteration

four_i


chain #=0
chain #=1
frequency
mu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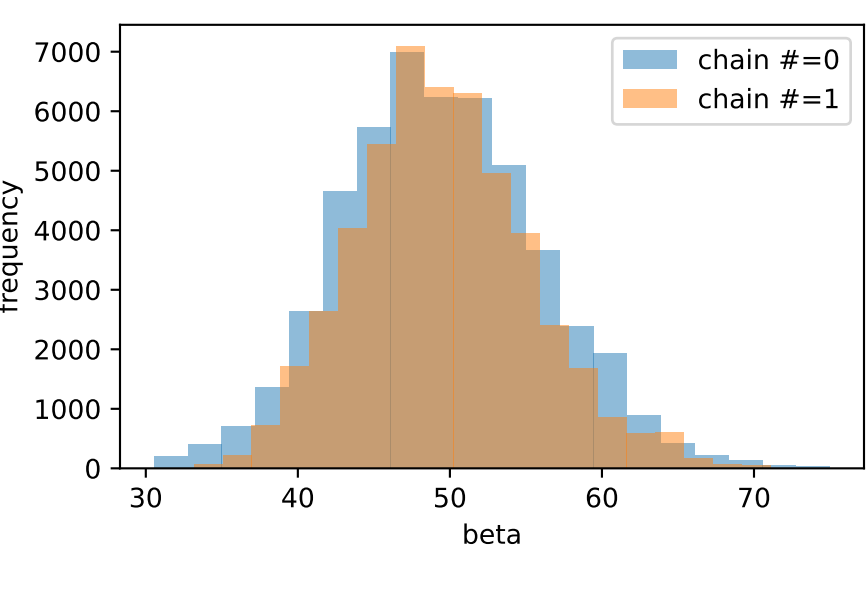
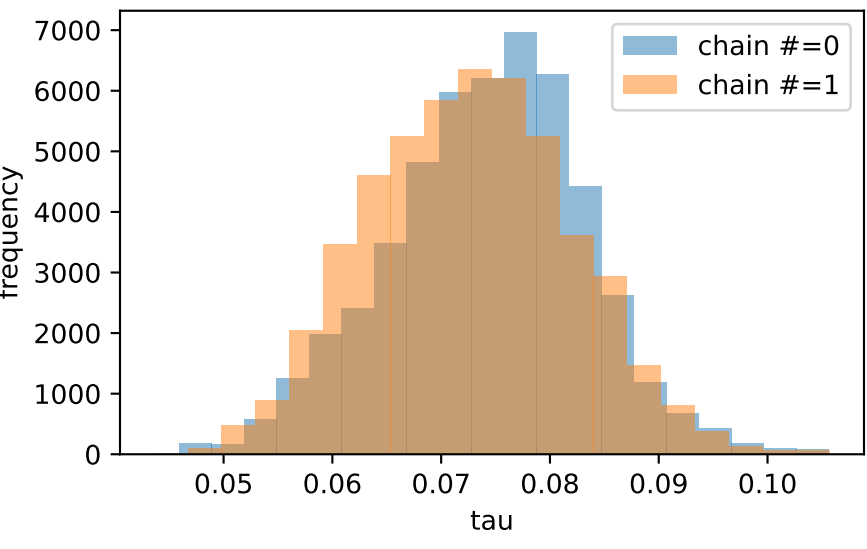
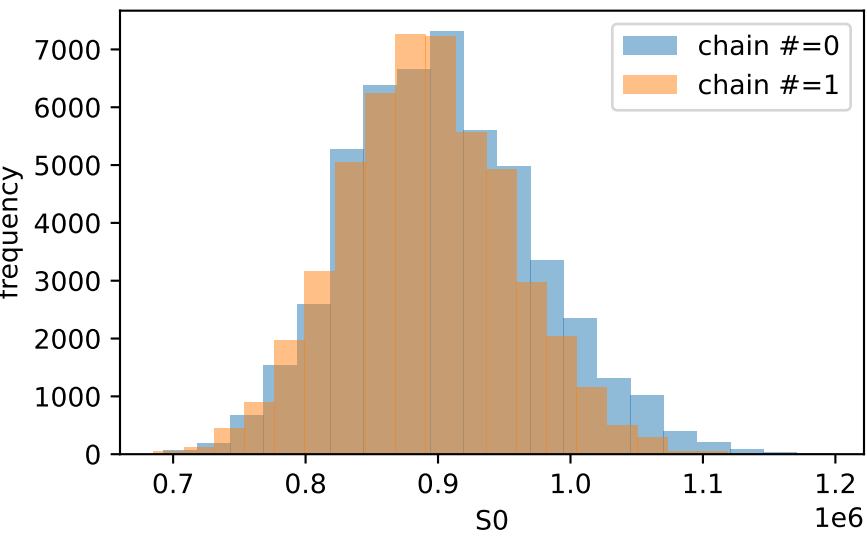
chain #=1
frequency
phi
1e−7


chain #=0
chain #=1
frequency
beta


chain #=0
chain #=1
frequency
tau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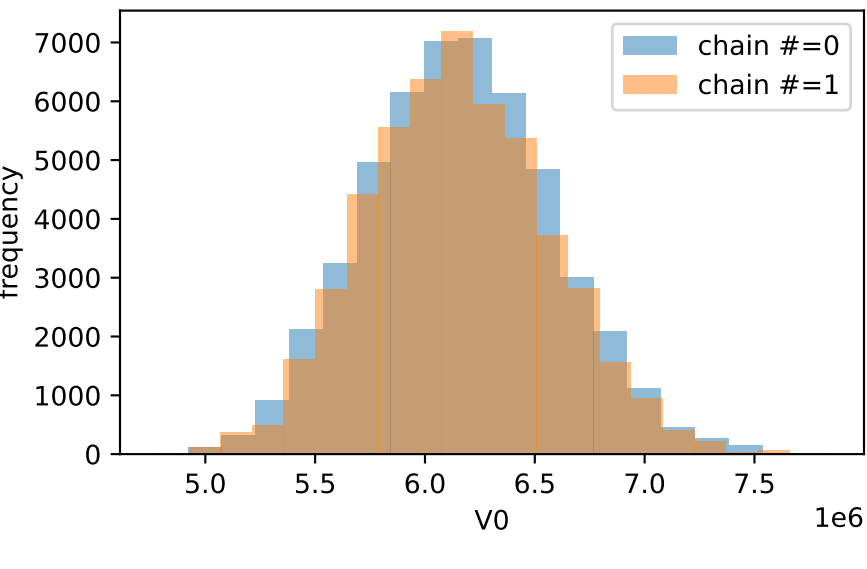
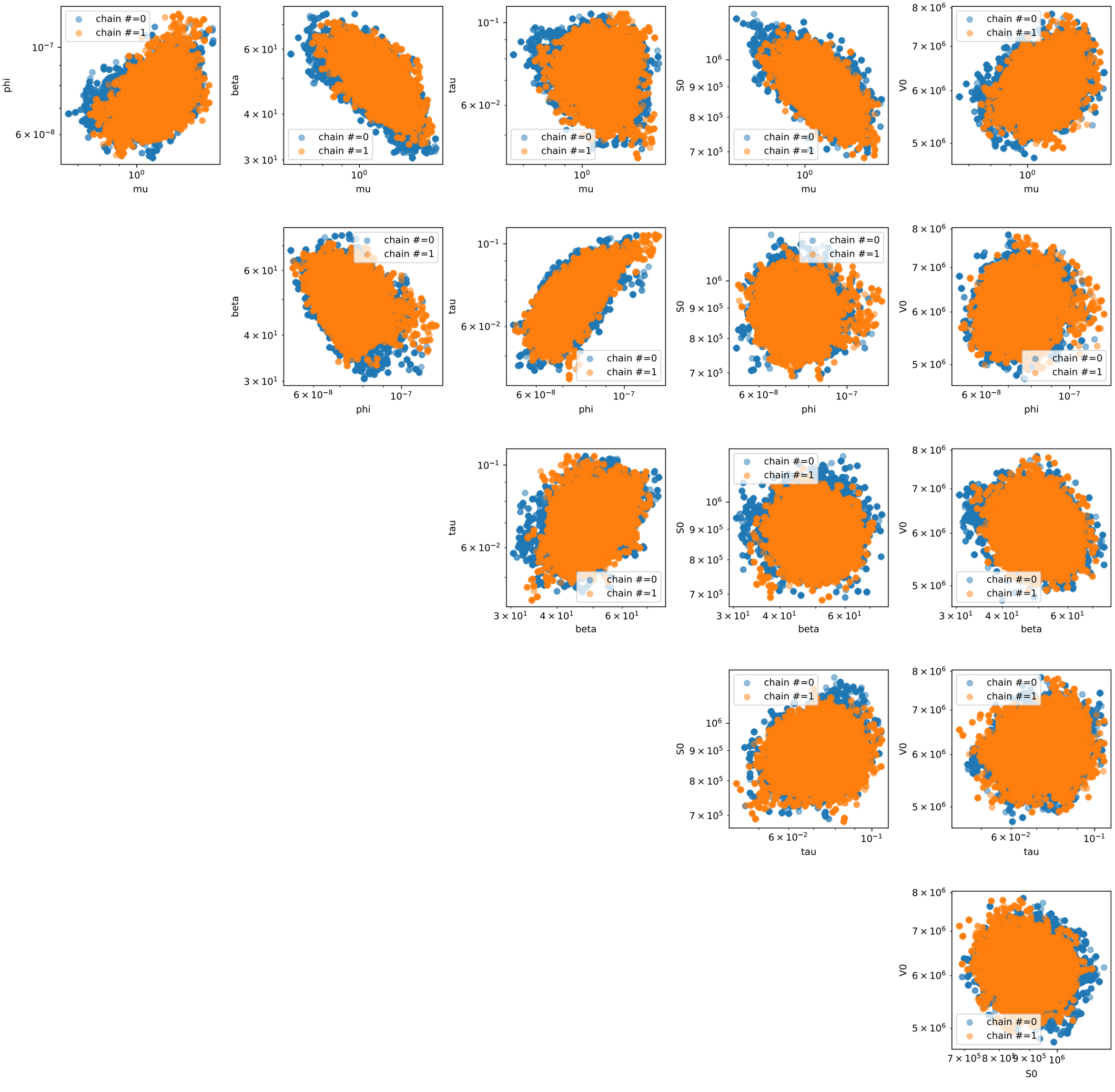
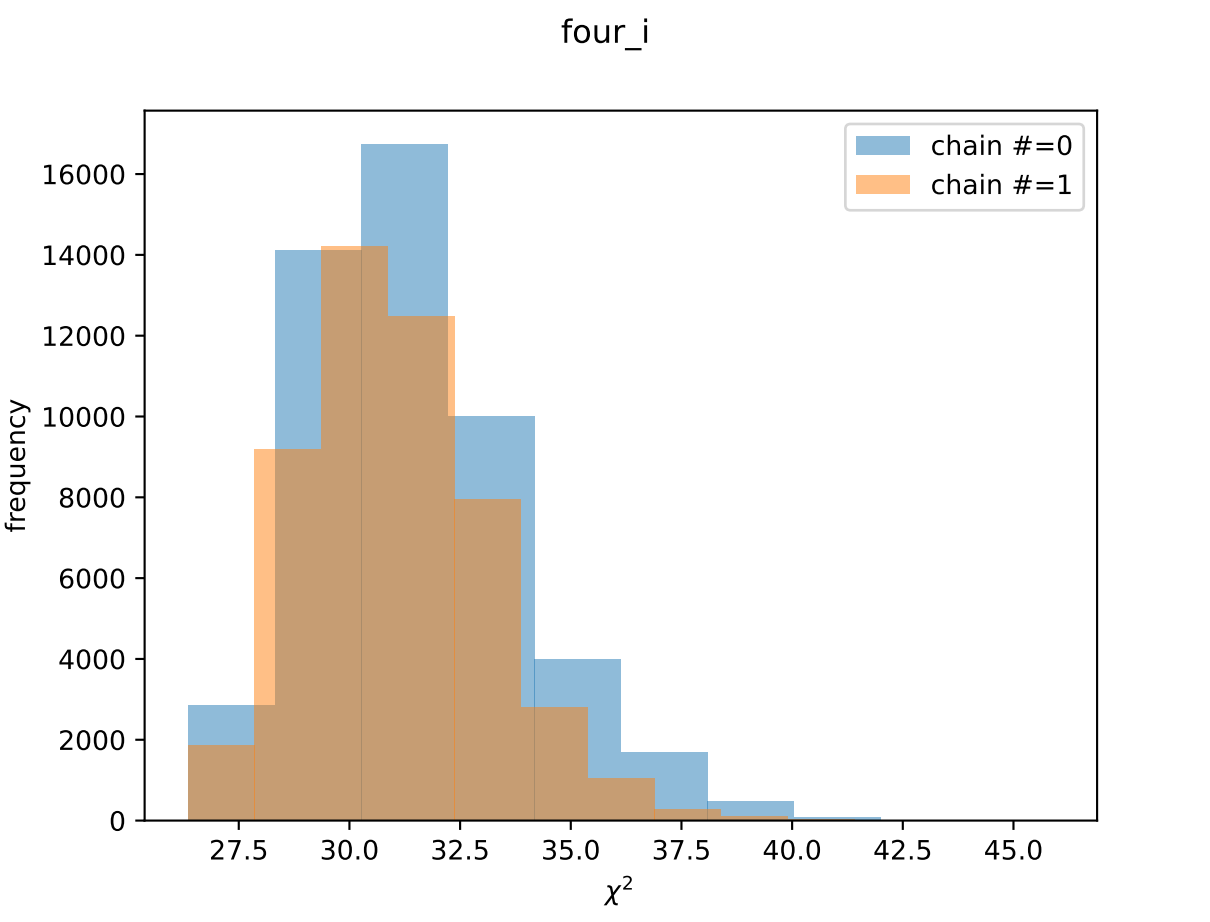
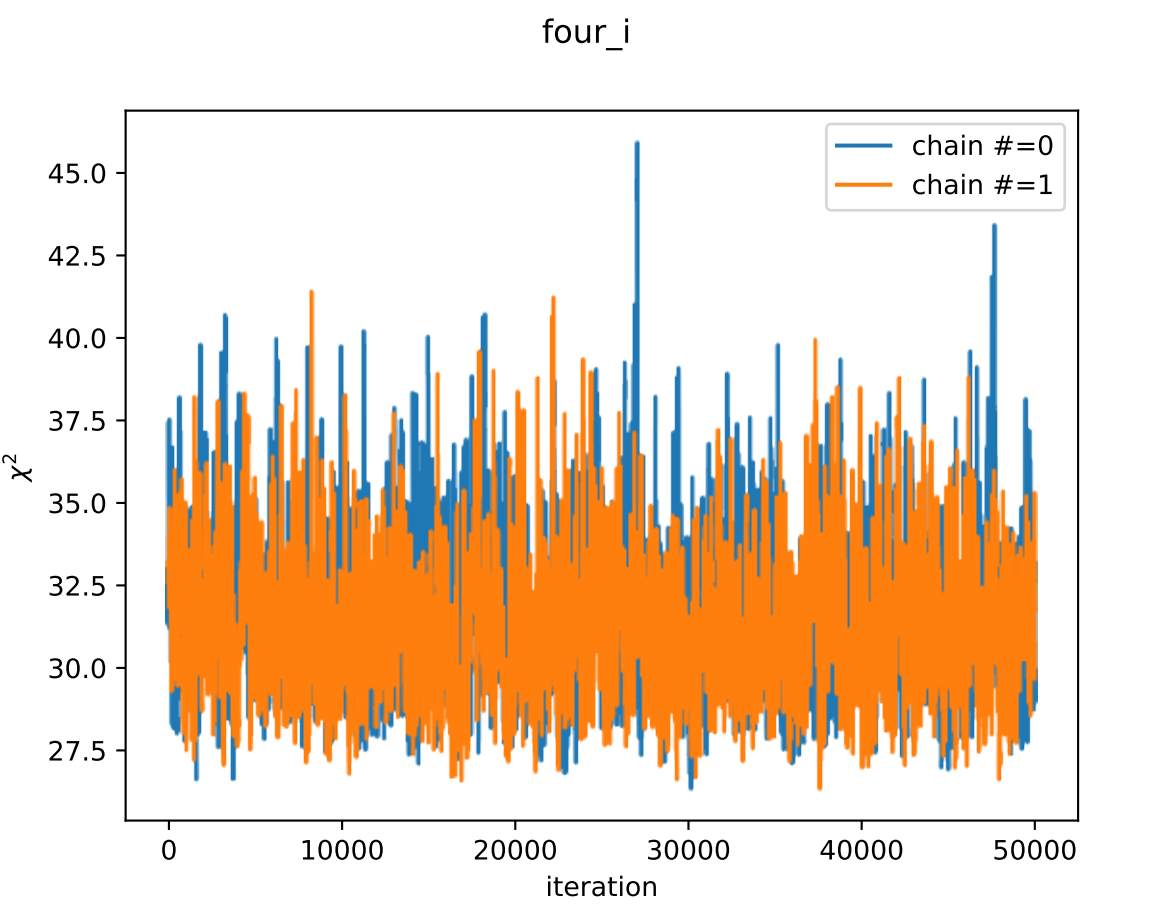
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

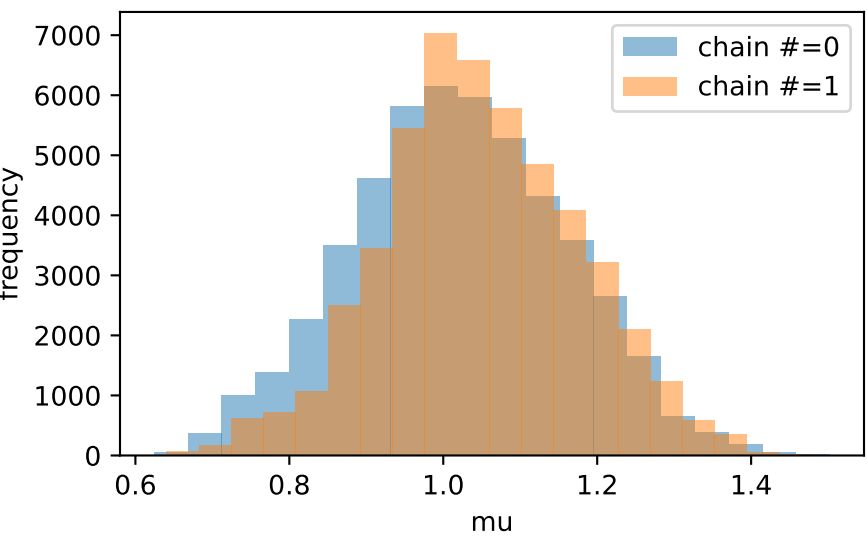
four_i

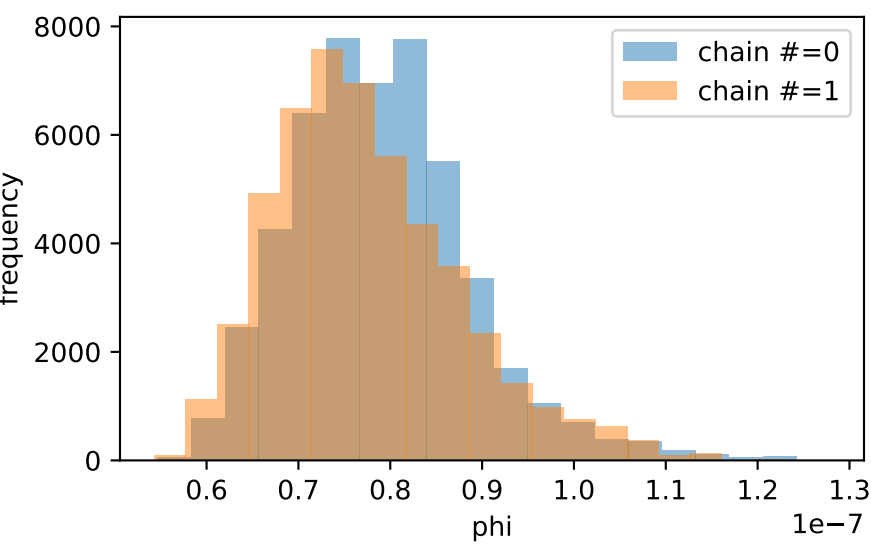


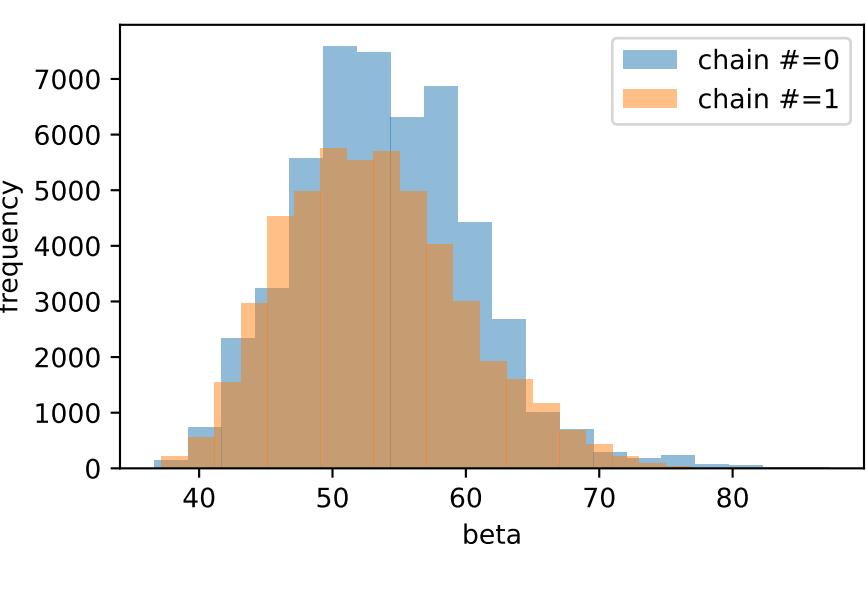

four_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
27.5
30.0
32.5
35.0
37.5
40.0
42.5
45.0
χ^2

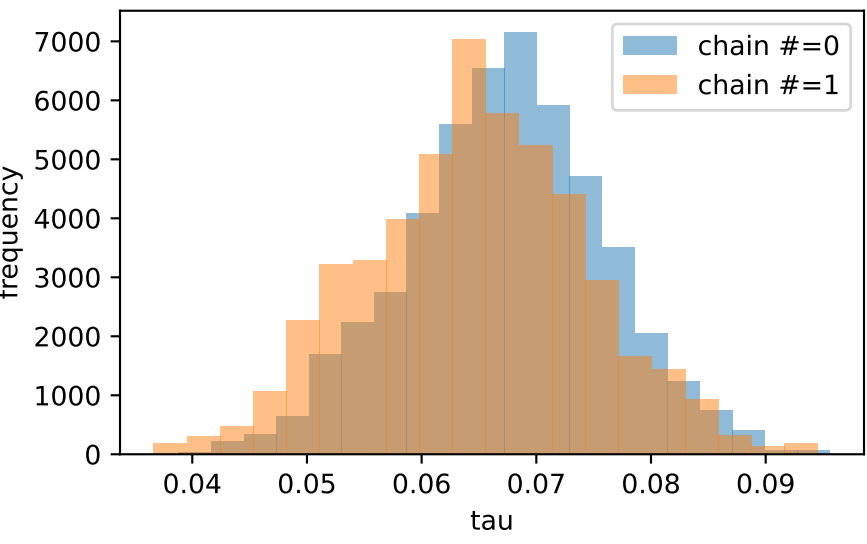

four_i
chain #=0
chain #=1
45.0
42.5
40.0
37.5
35.0
32.5
30.0
27.5
χ^2
0
10000
20000
30000
40000
50000
iteration

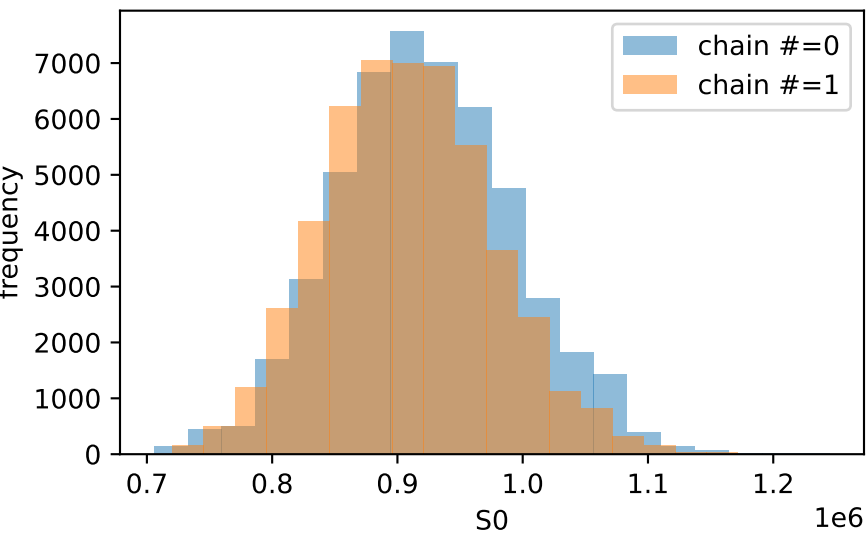
five_i

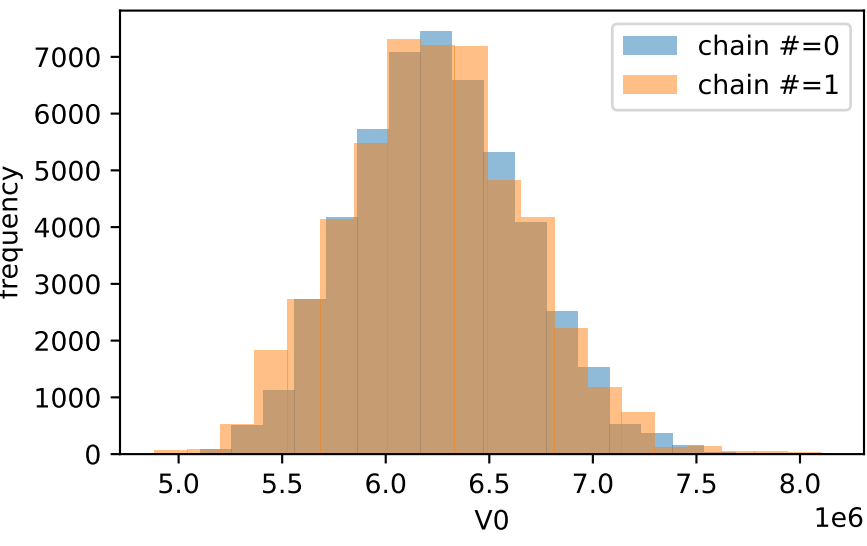

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
frequency
phi
1e−7

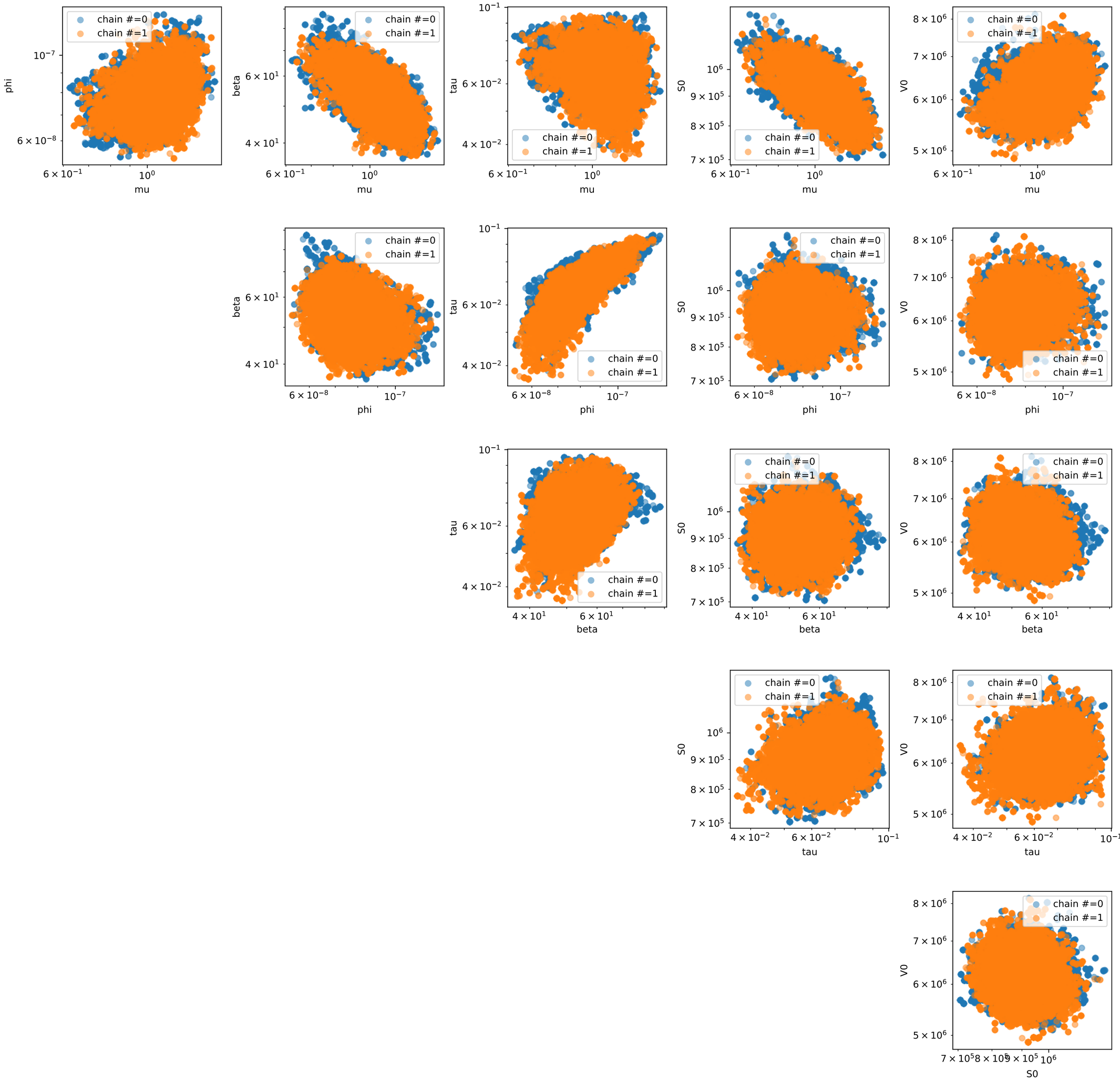

chain #=0
chain #=1
frequency
beta

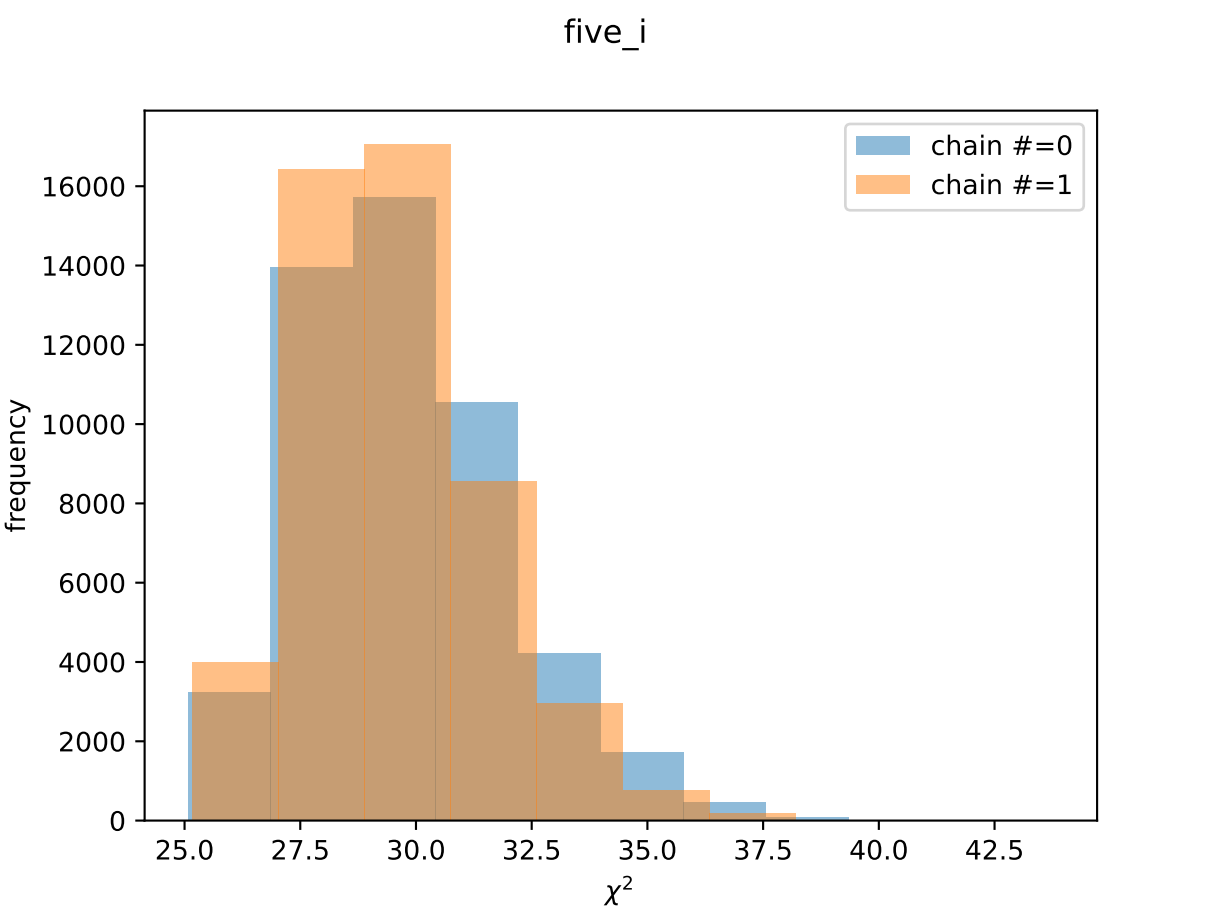

chain #=0
chain #=1
frequency
tau

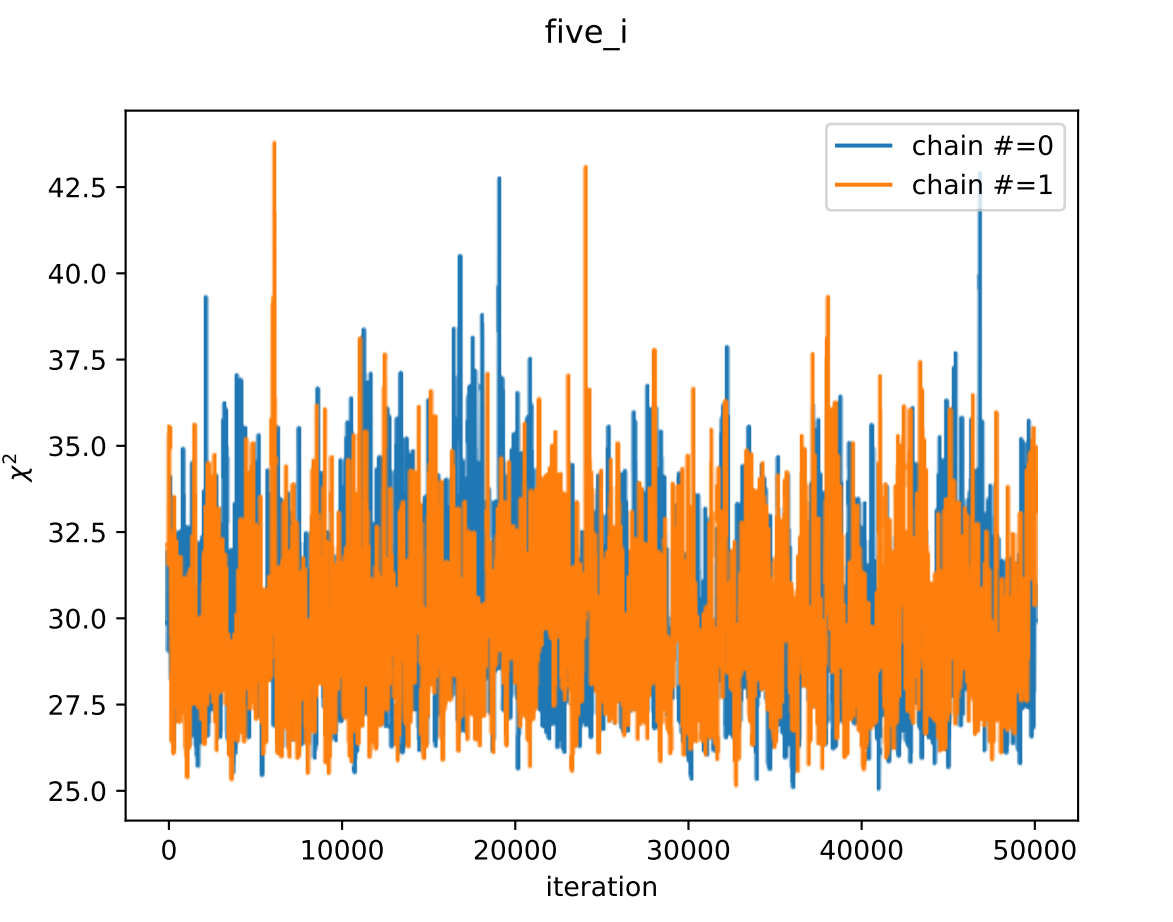

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

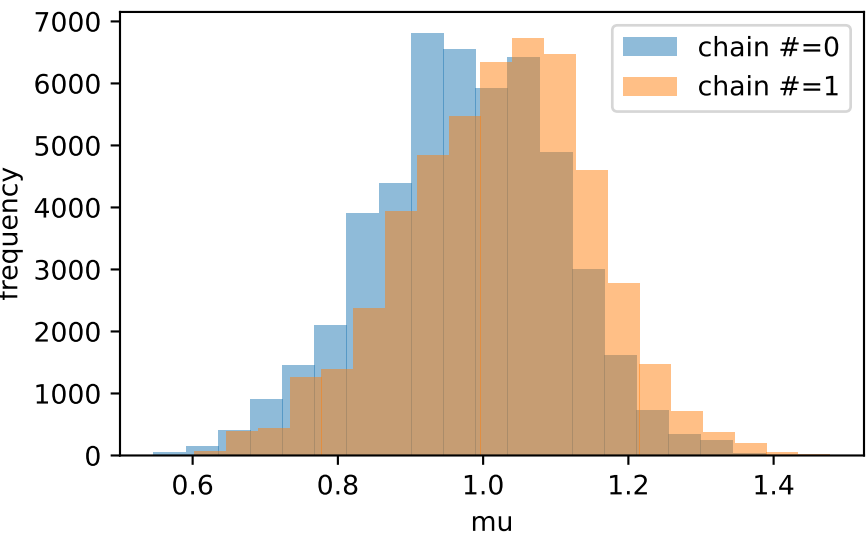
five_i

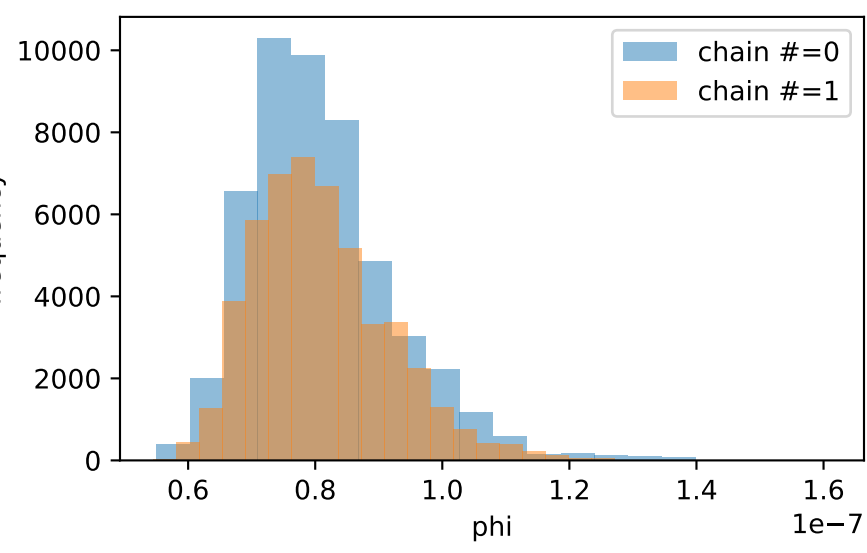


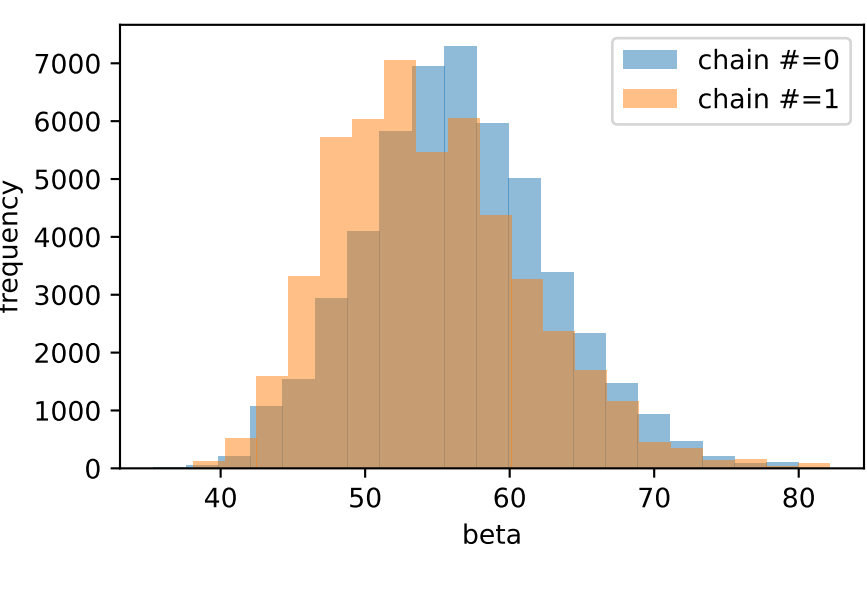

five_i
chain #=0
chain #=1
frequency
0
2000
4000
6000
8000
10000
12000
14000
16000
25.0
27.5
30.0
32.5
35.0
37.5
40.0
42.5
χ^2

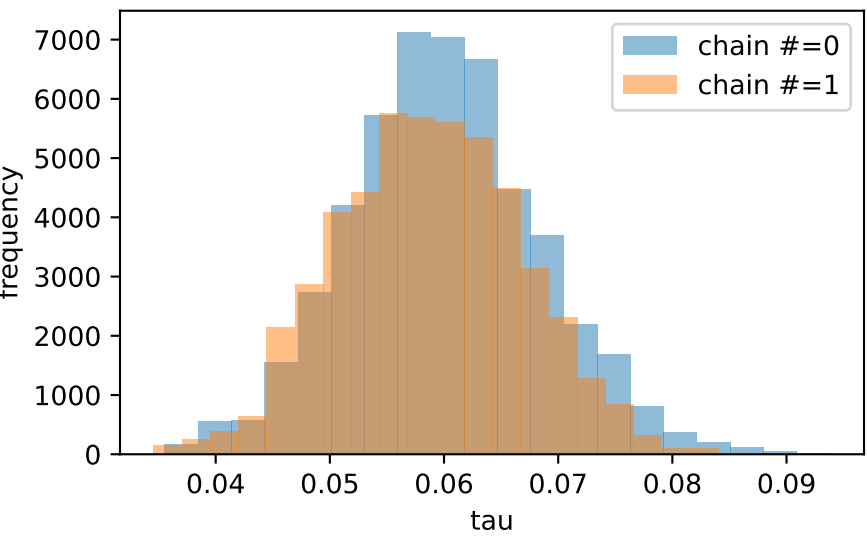

five_i
chain #=0
chain #=1
42.5
40.0
37.5
35.0
32.5
30.0
27.5
25.0
χ^2
0
10000
20000
30000
40000
50000
iteration

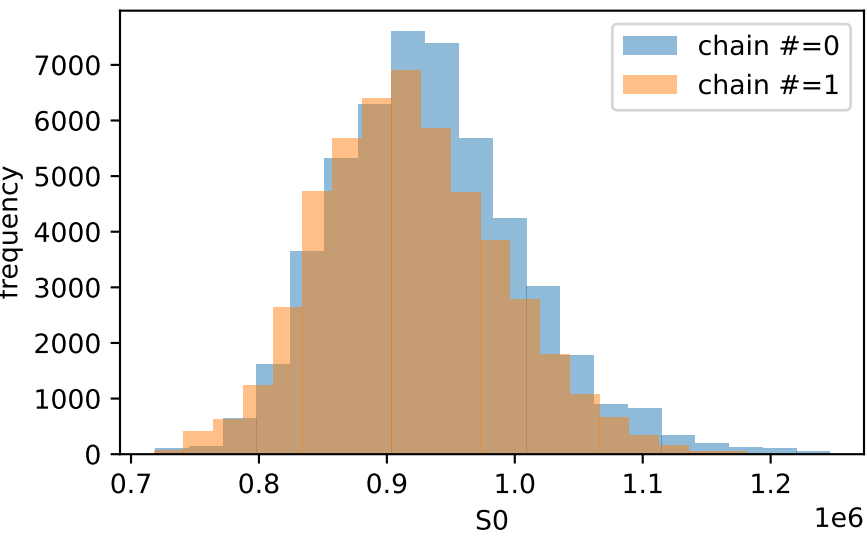
six_i

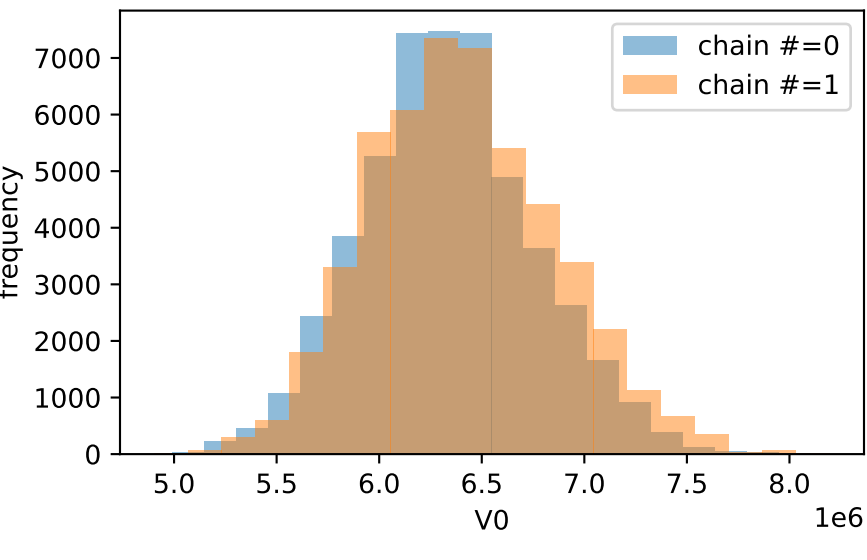

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
phi
1e−7

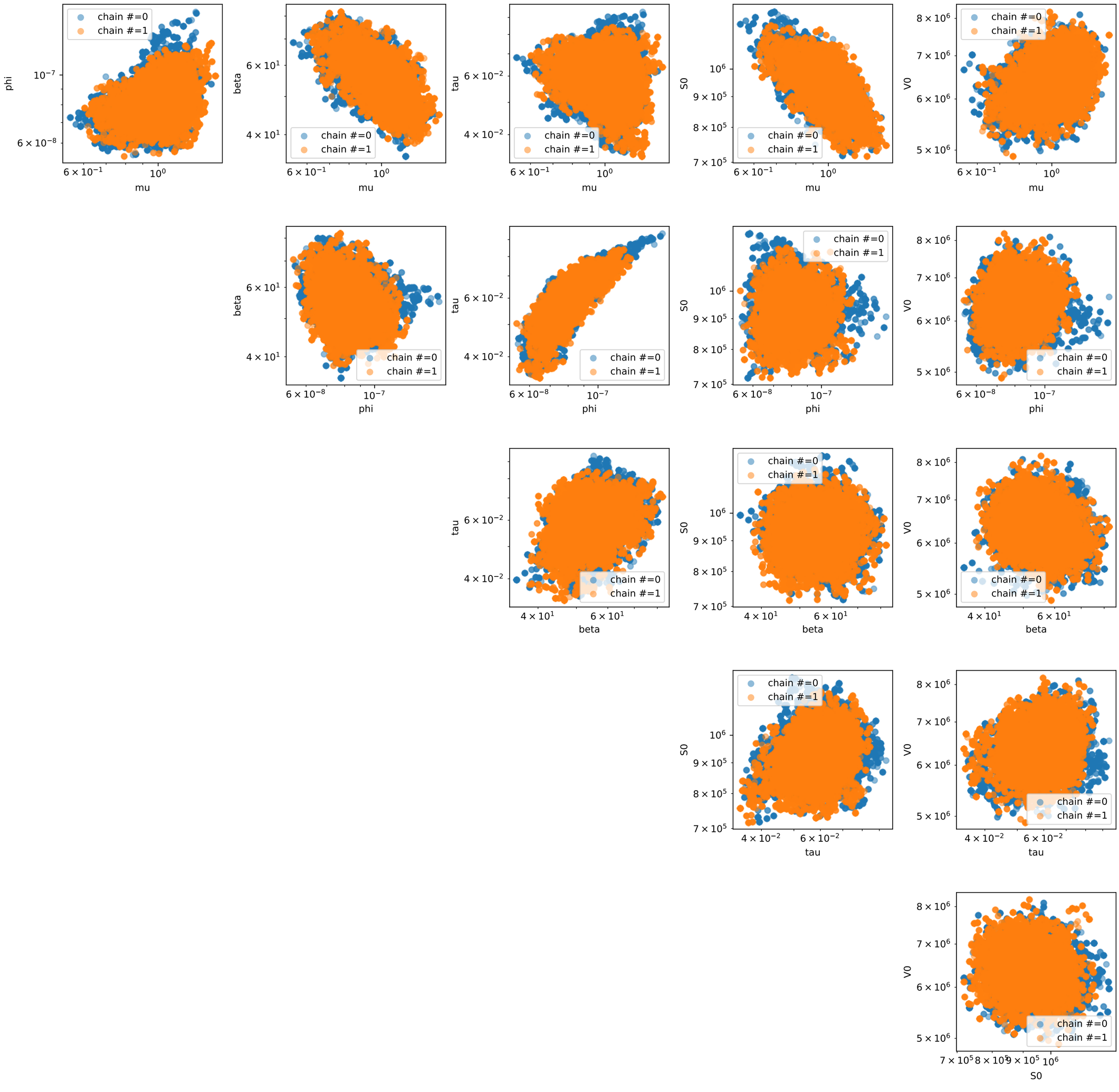

chain #=0
chain #=1
frequency
beta

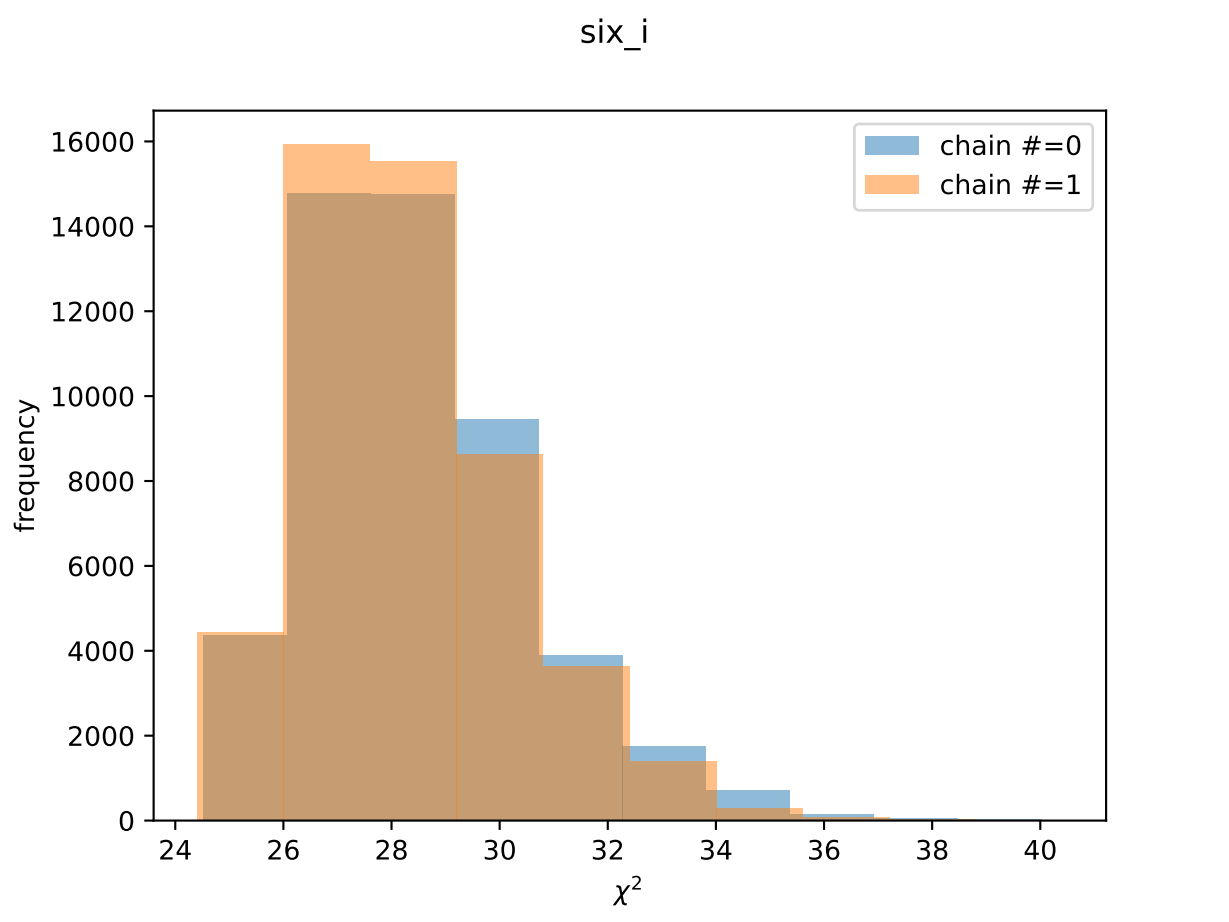

chain #=0
chain #=1
frequency
tau

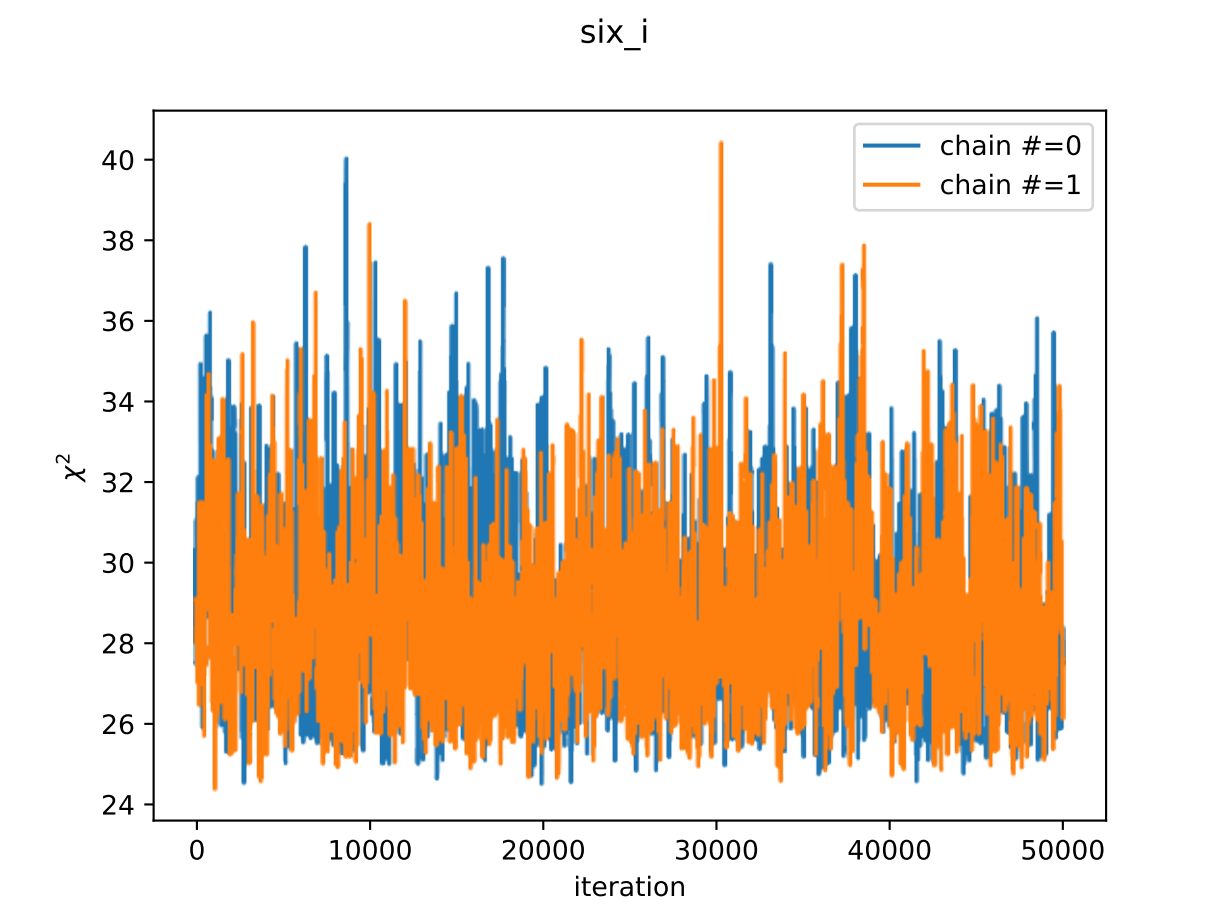

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

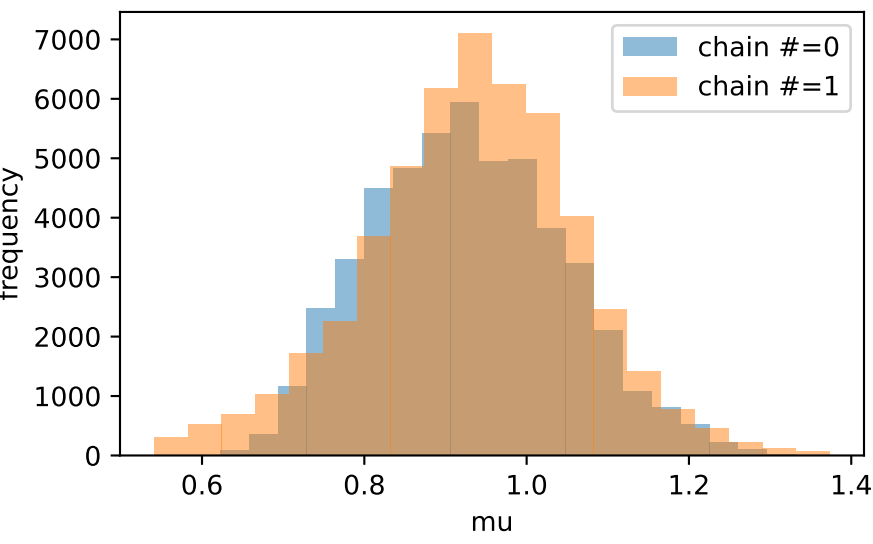
six_i


phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
chain #=0
chain #=1


six_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
24
26
28
30
32
34
36
38
40
χ^2


six_i
chain #=0
chain #=1
40
38
36
34
32
30
28
26
24
χ^2
0
10000
20000
30000
40000
50000
iteration

seven_i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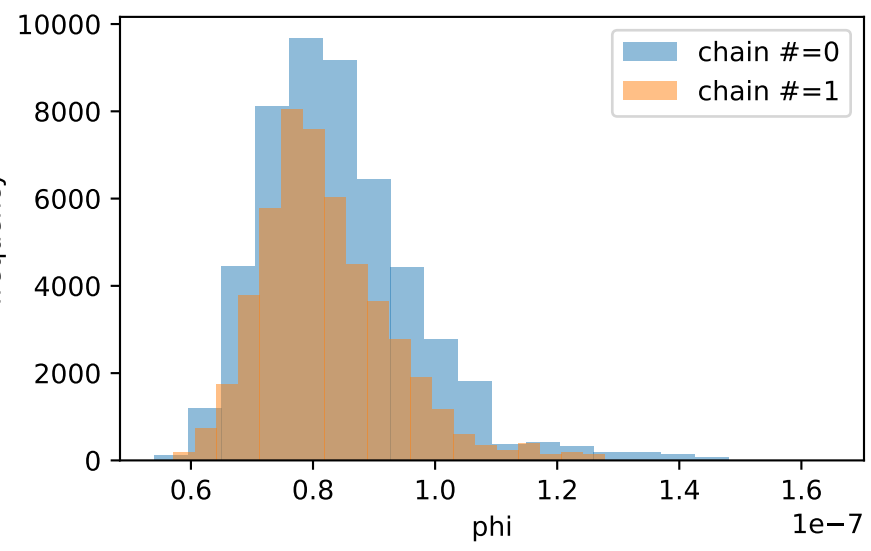
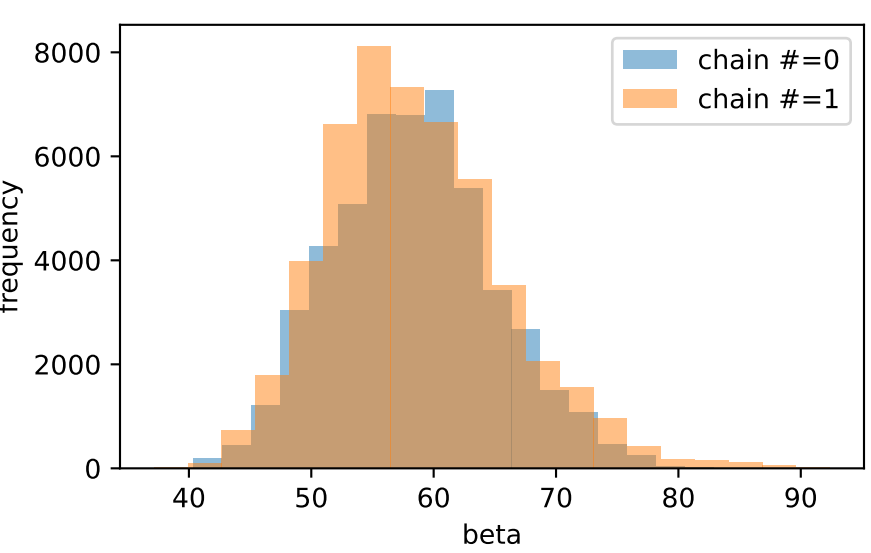
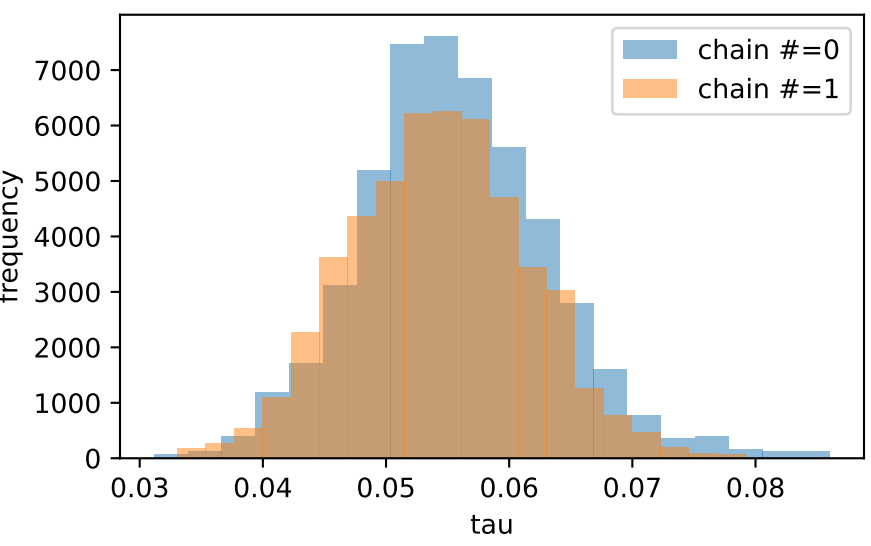
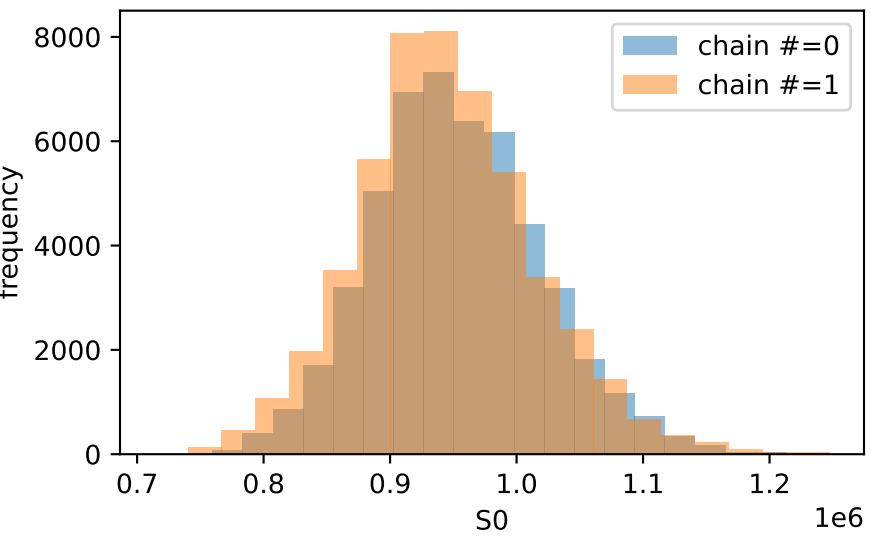
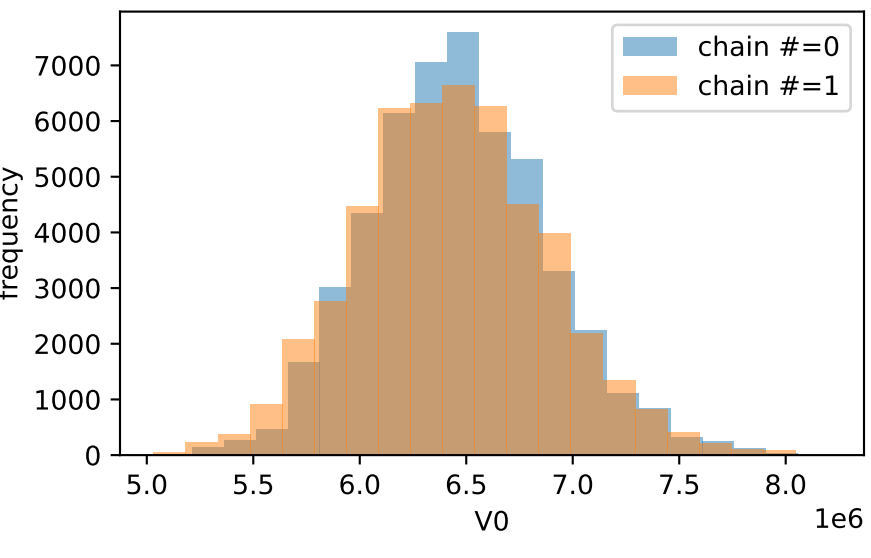
chain #=1
frequency
mu


chain #=0
chain #=1
phi
1e−7

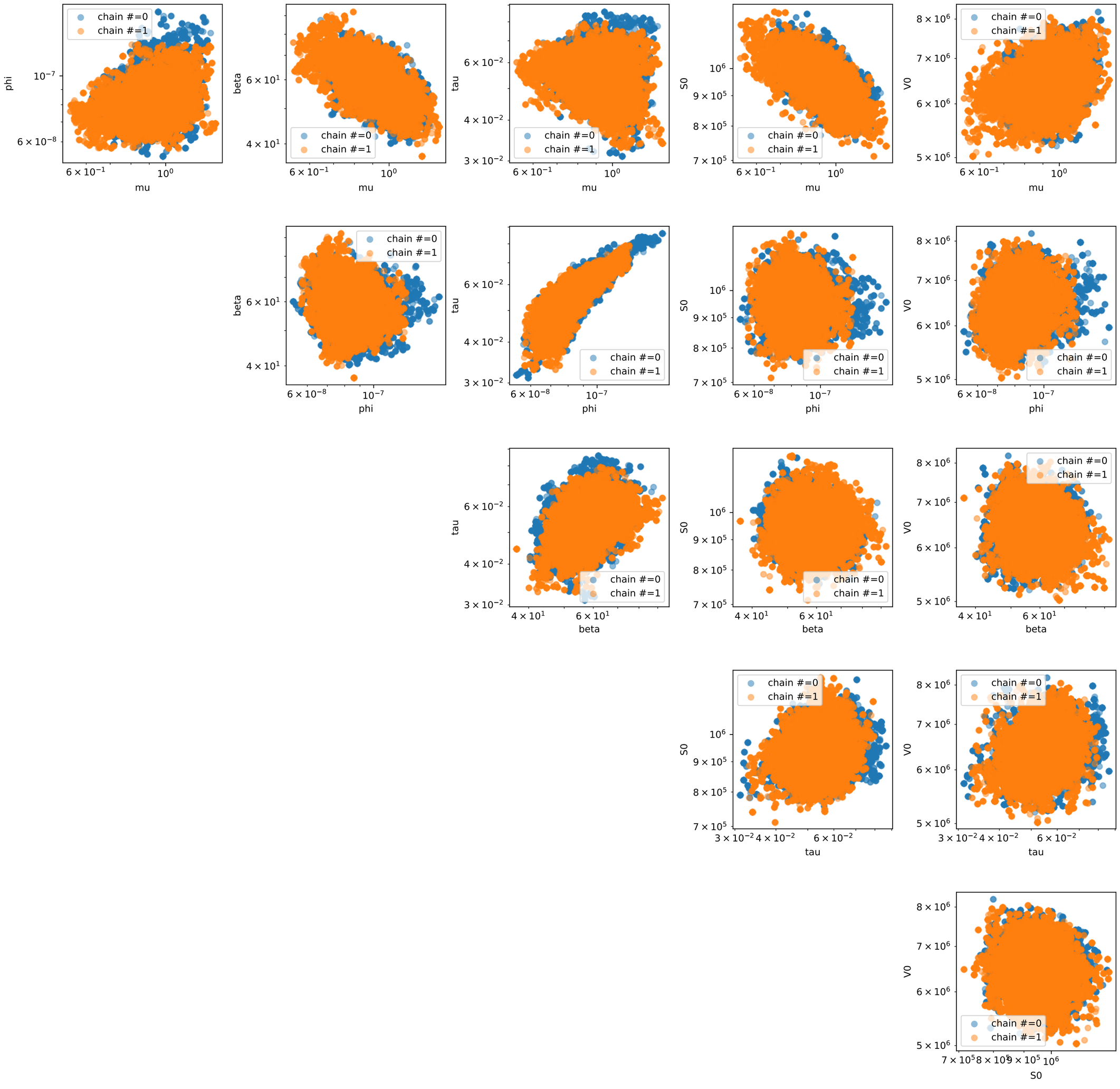

chain #=0
chain #=1
frequency
beta

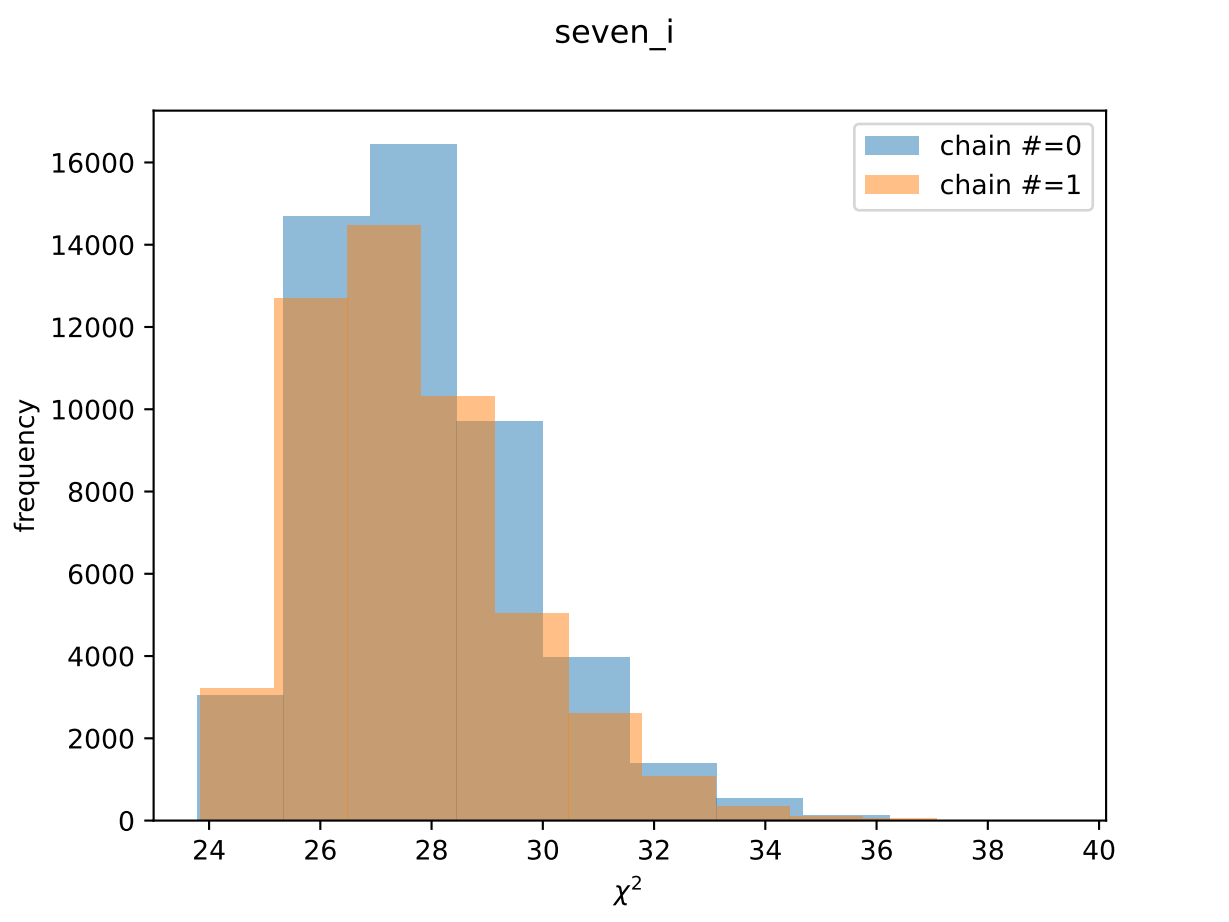

chain #=0
chain #=1
frequency
tau

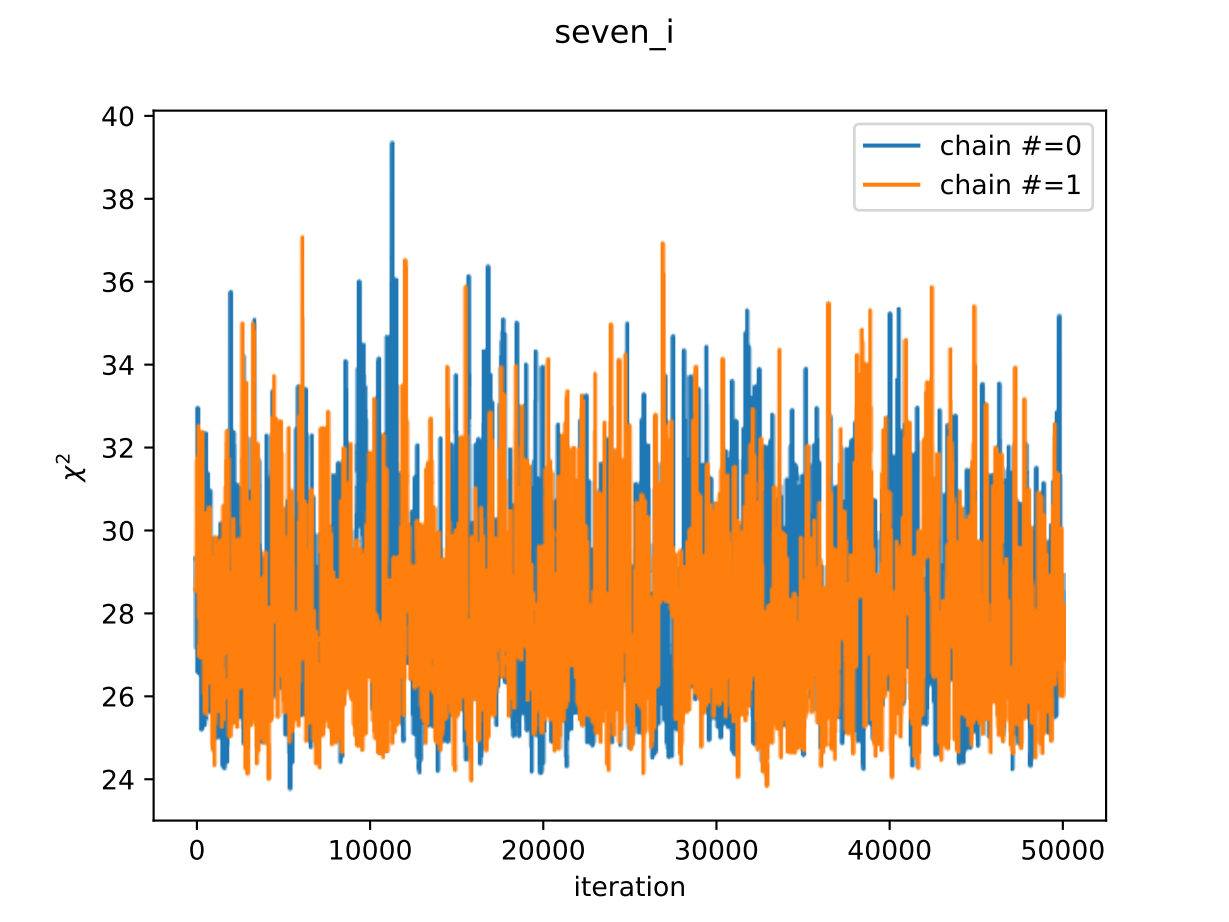

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

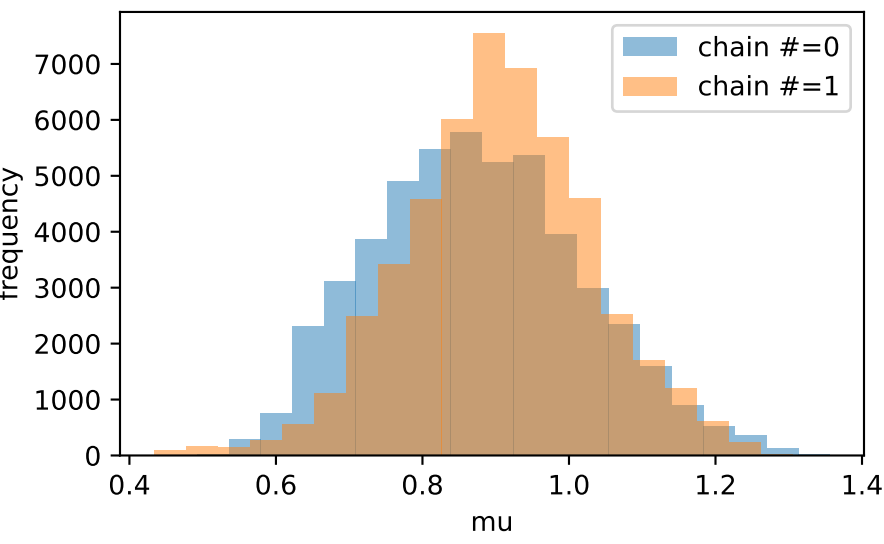
seven_i

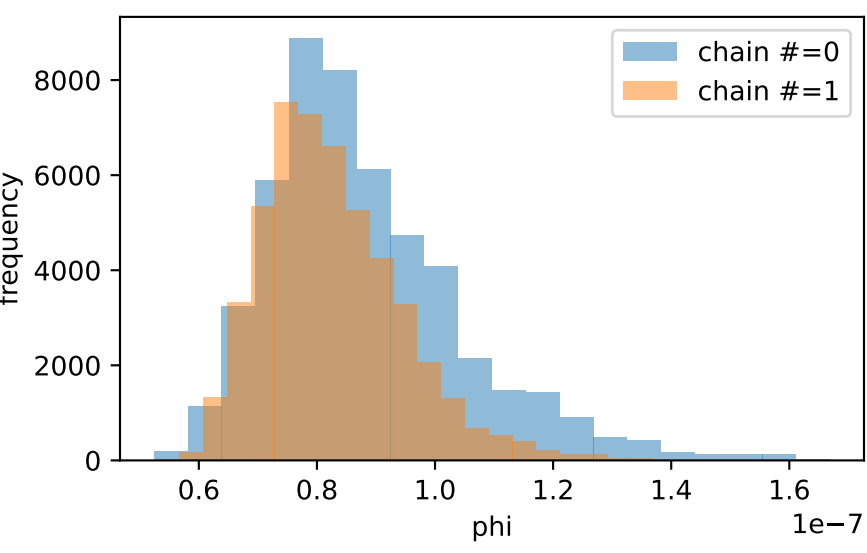


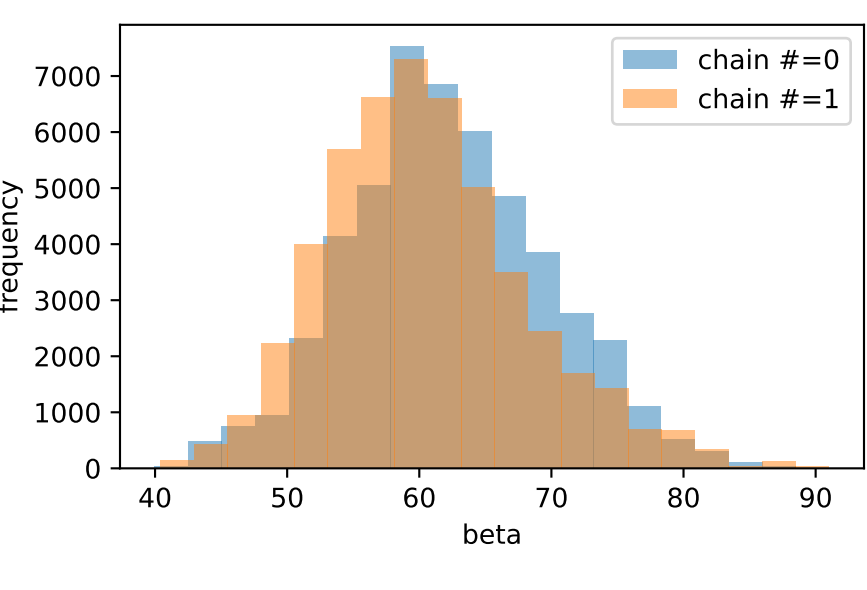

seven_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
24
26
28
30
32
34
36
38
40
χ^2

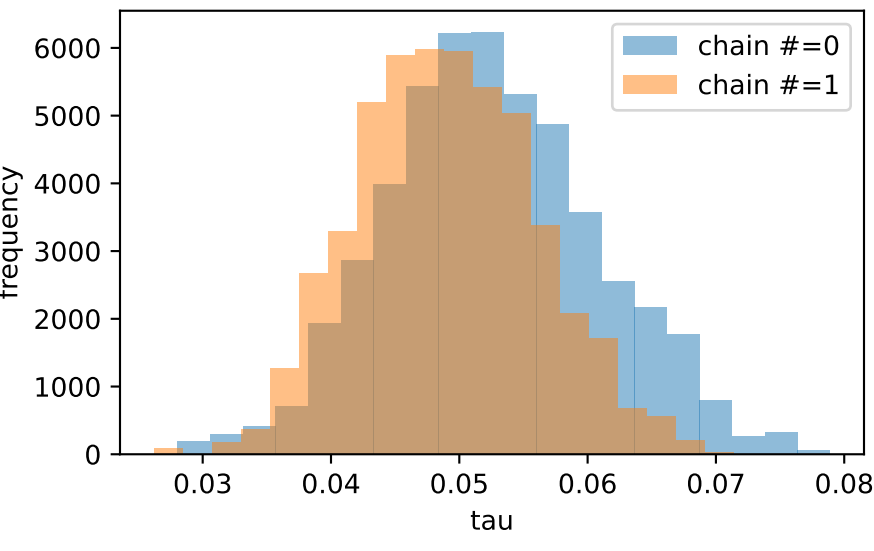

seven_i
chain #=0
chain #=1
χ^2
iteration
40
38
36
34
32
30
28
26
24
0
10000
20000
30000
40000
50000

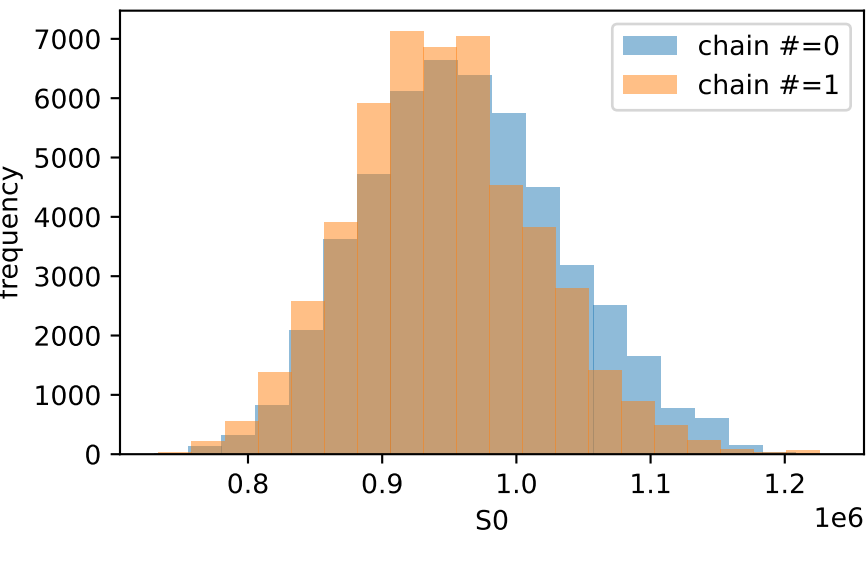
eight_i

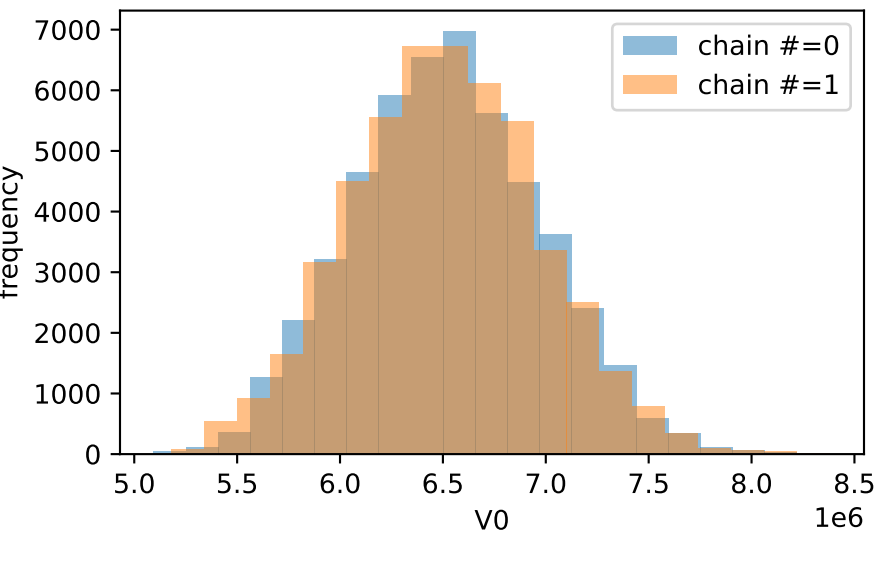

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
frequency
phi
1e−7

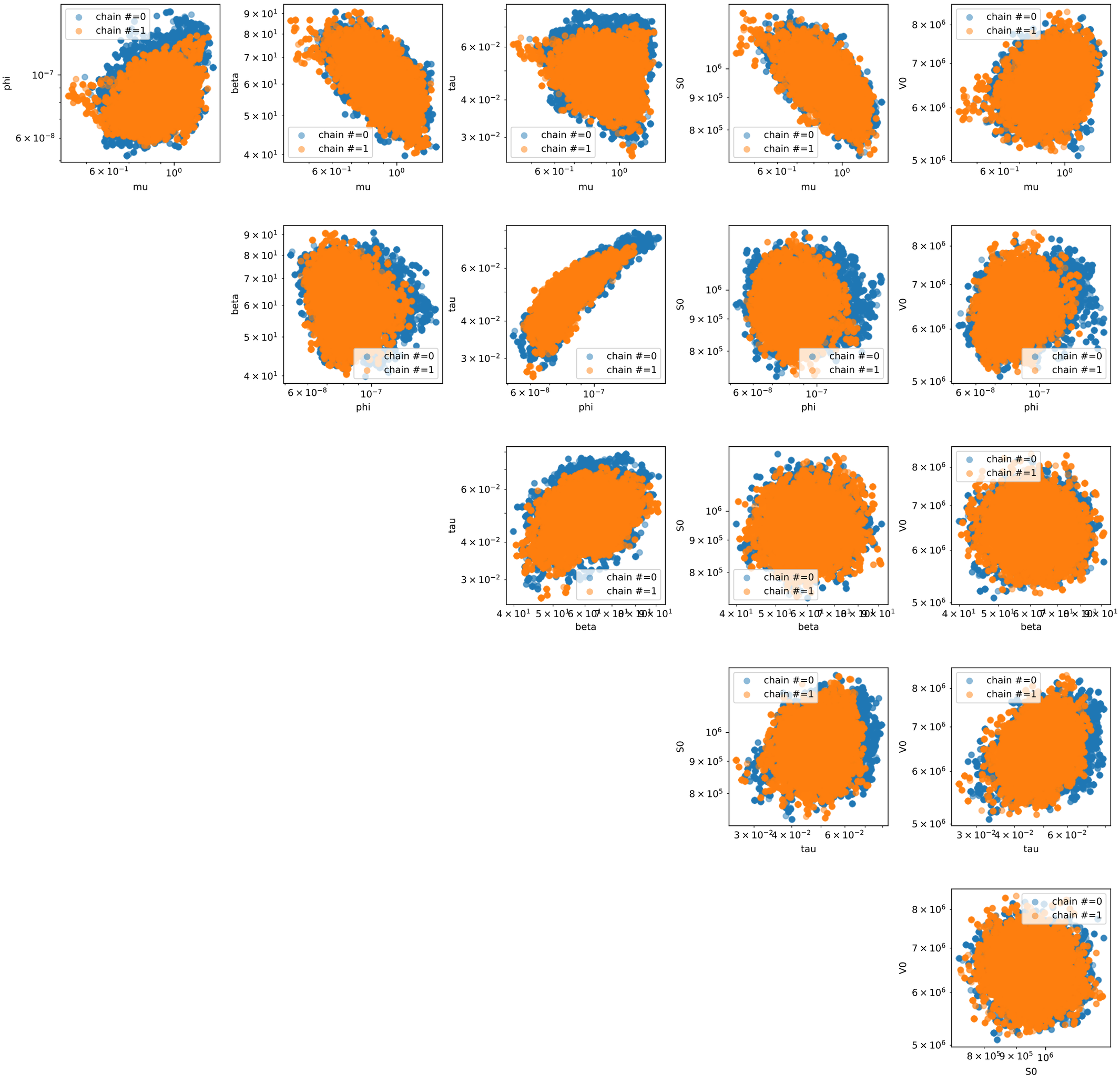

chain #=0
chain #=1
frequency
beta

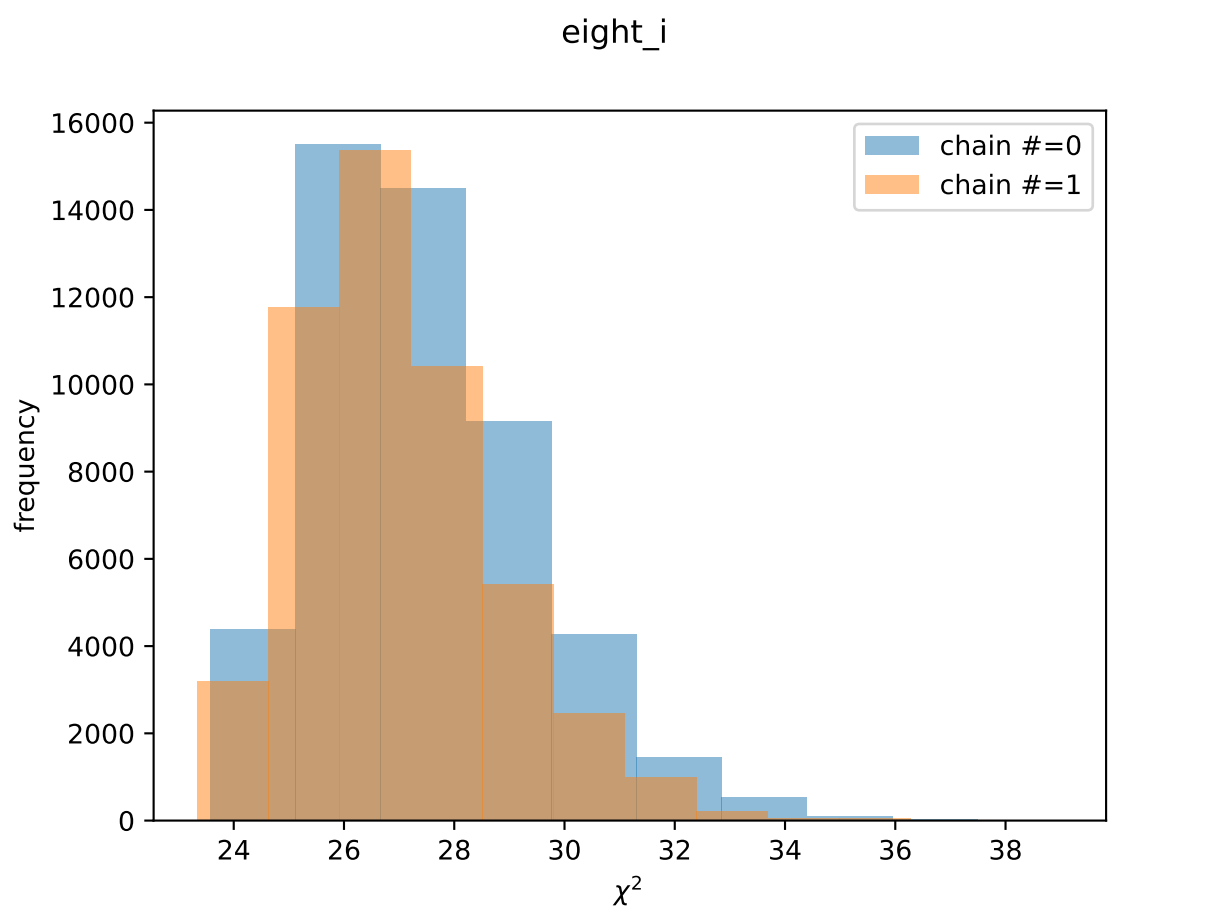

chain #=0
chain #=1
frequency
tau

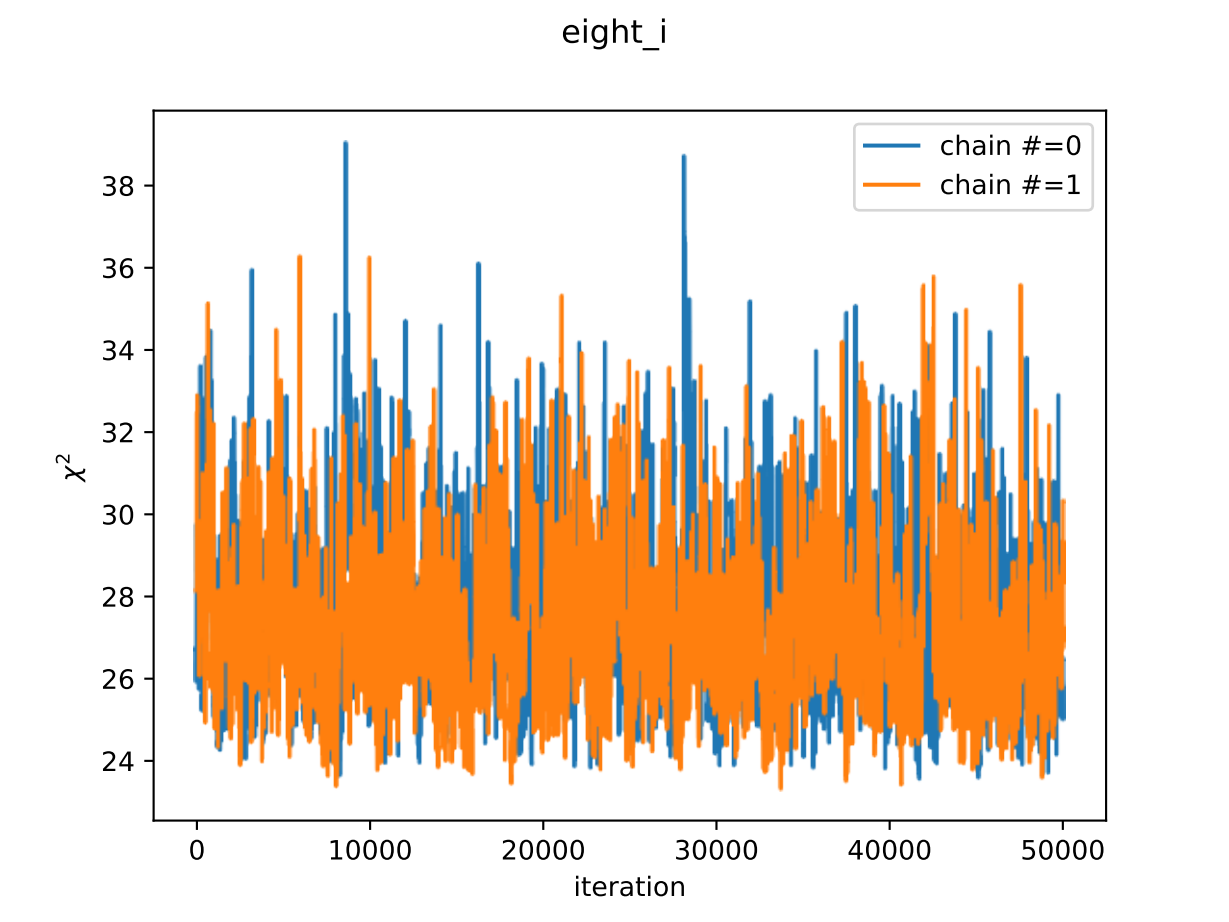

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

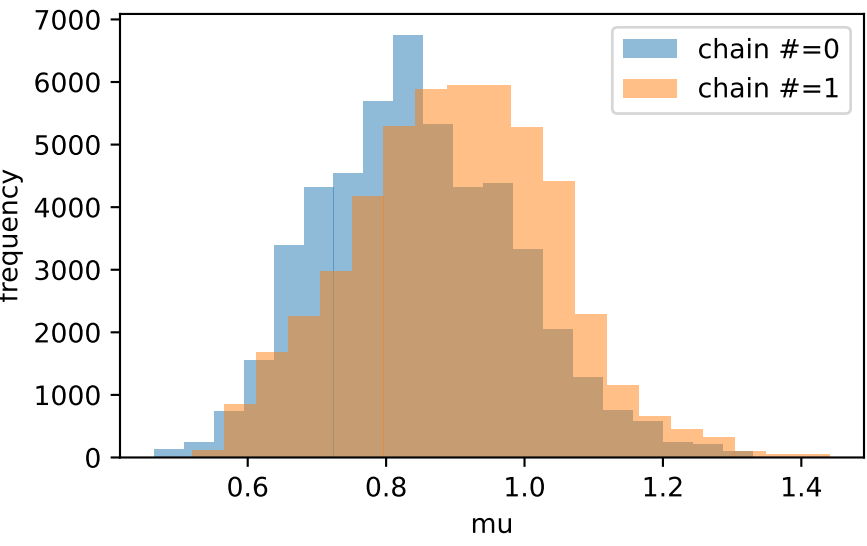
eight_i




eight_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
24
26
28
30
32
34
36
38
χ^2


eight_i
chain #=0
chain #=1
38
36
34
32
30
28
26
24
χ^2
0
10000
20000
30000
40000
50000
iteration

nine_i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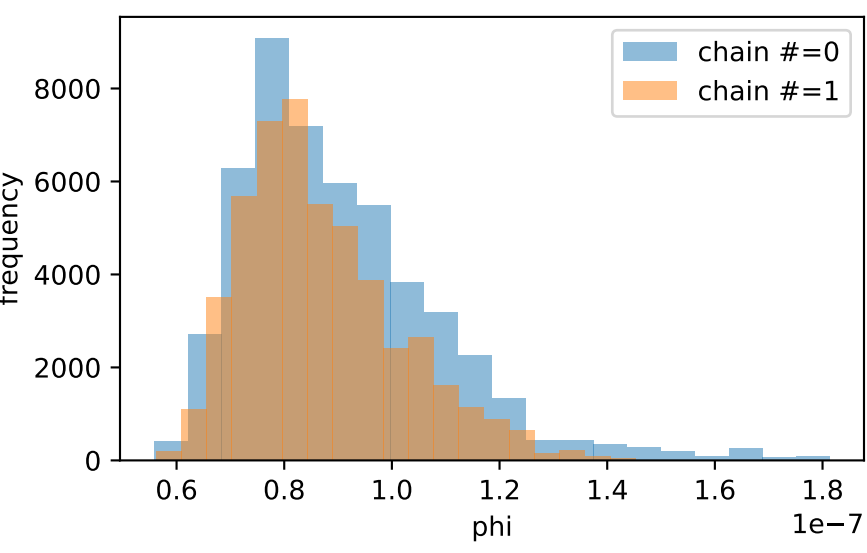
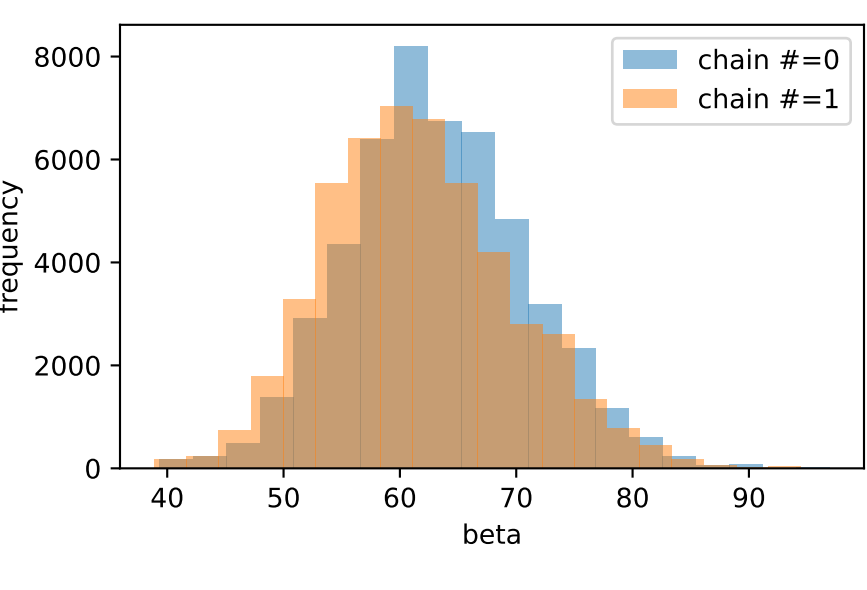
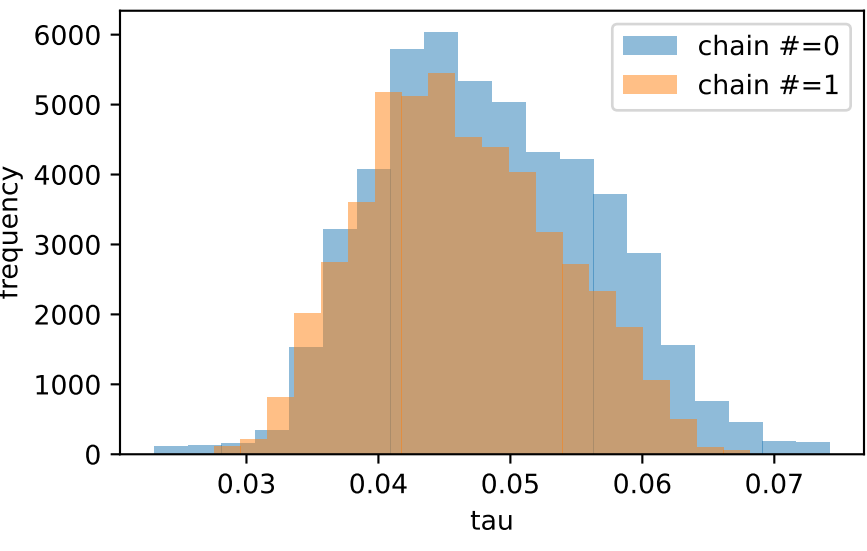
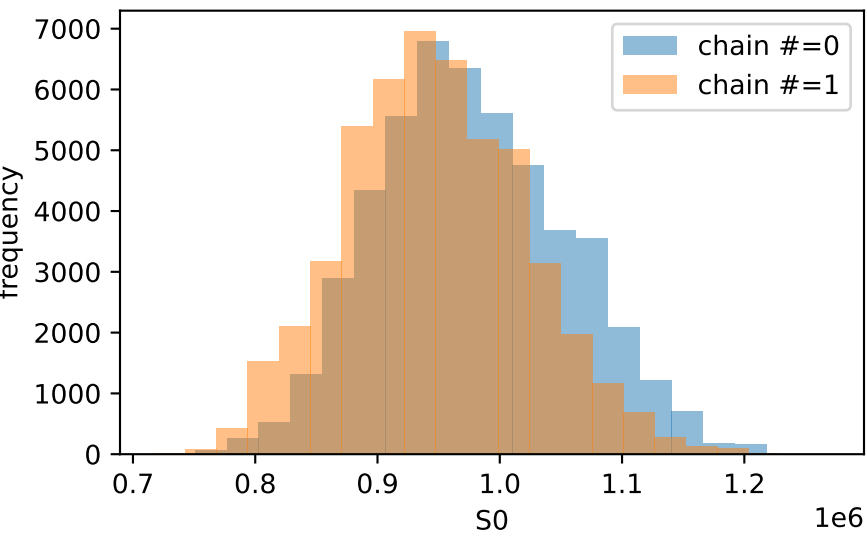
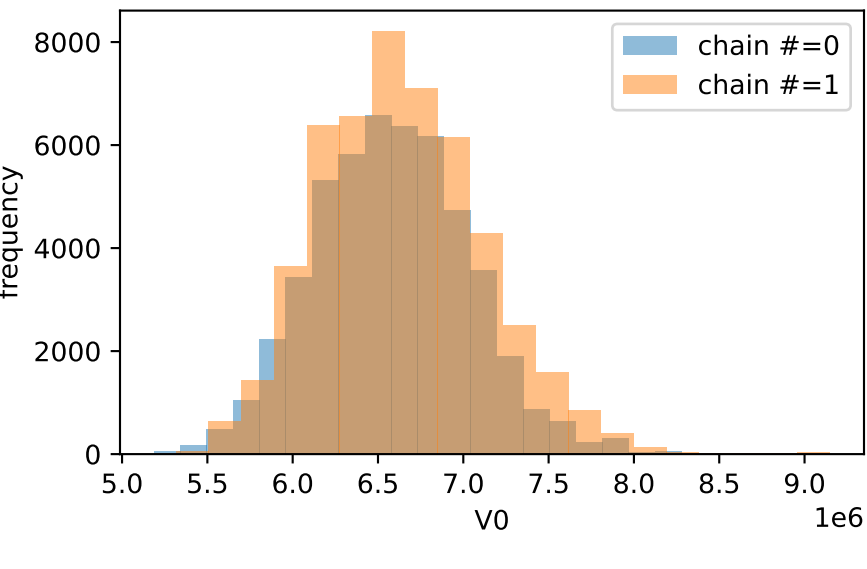
chain #=1
frequency
mu


chain #=0
chain #=1
frequency
phi
1e−7

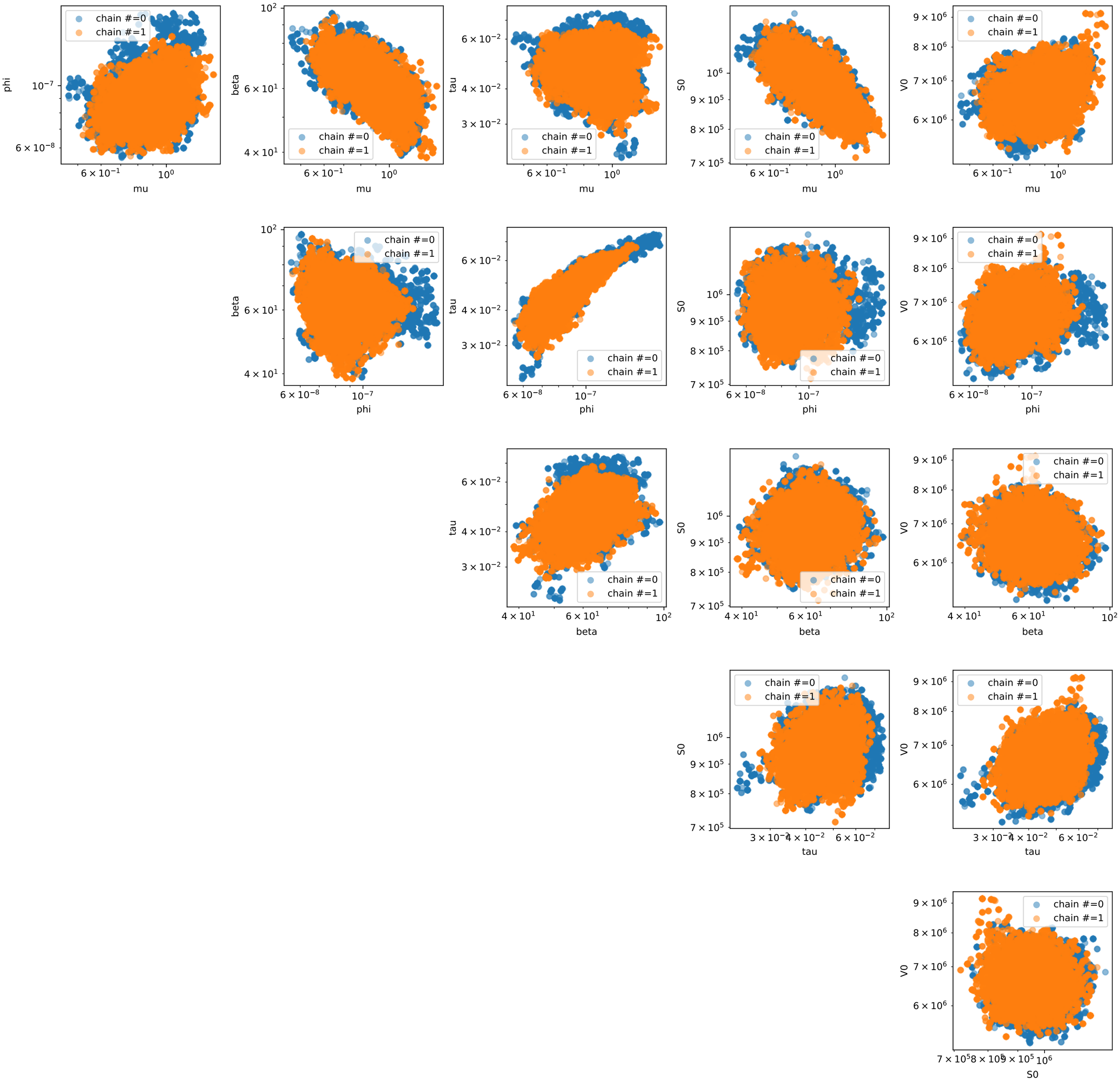

chain #=0
chain #=1
frequency
beta

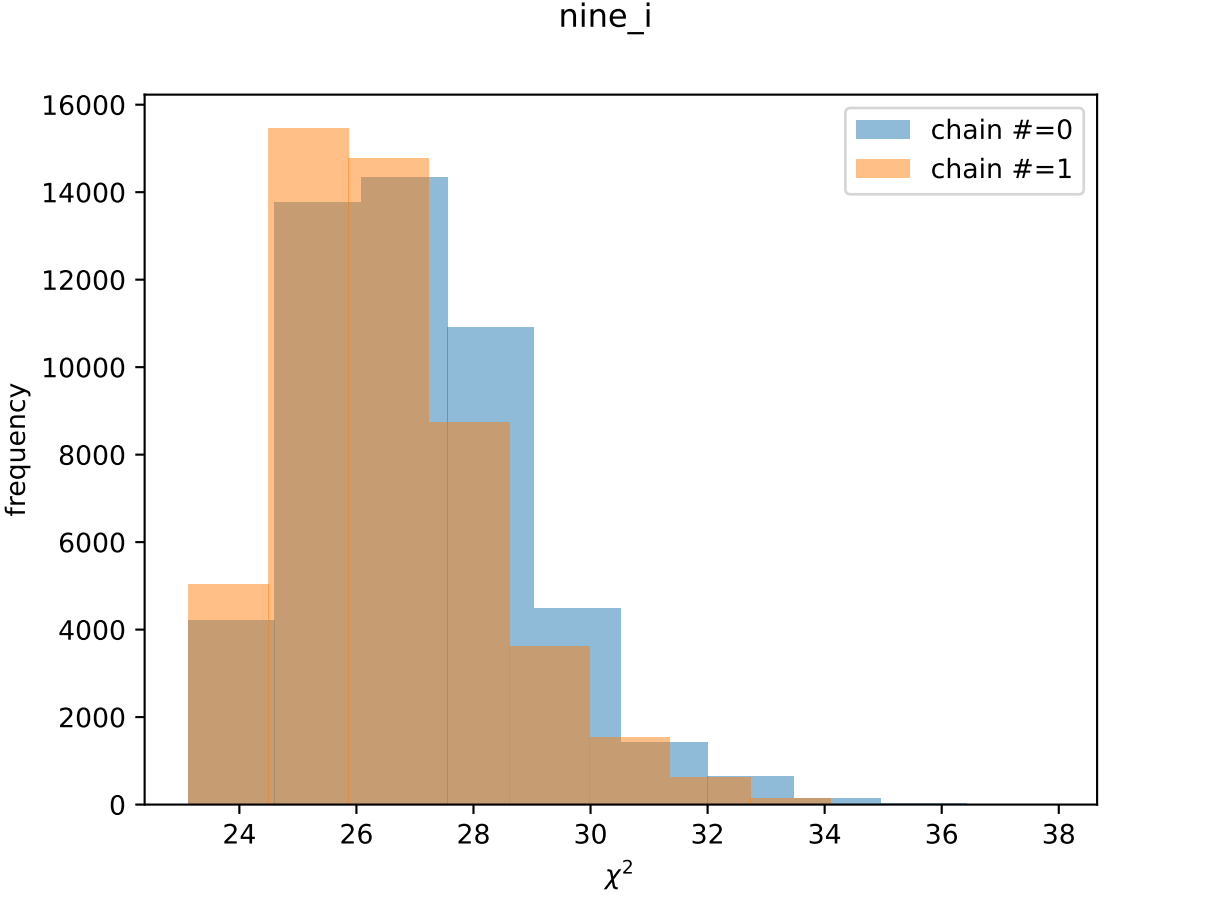

chain #=0
chain #=1
frequency
tau

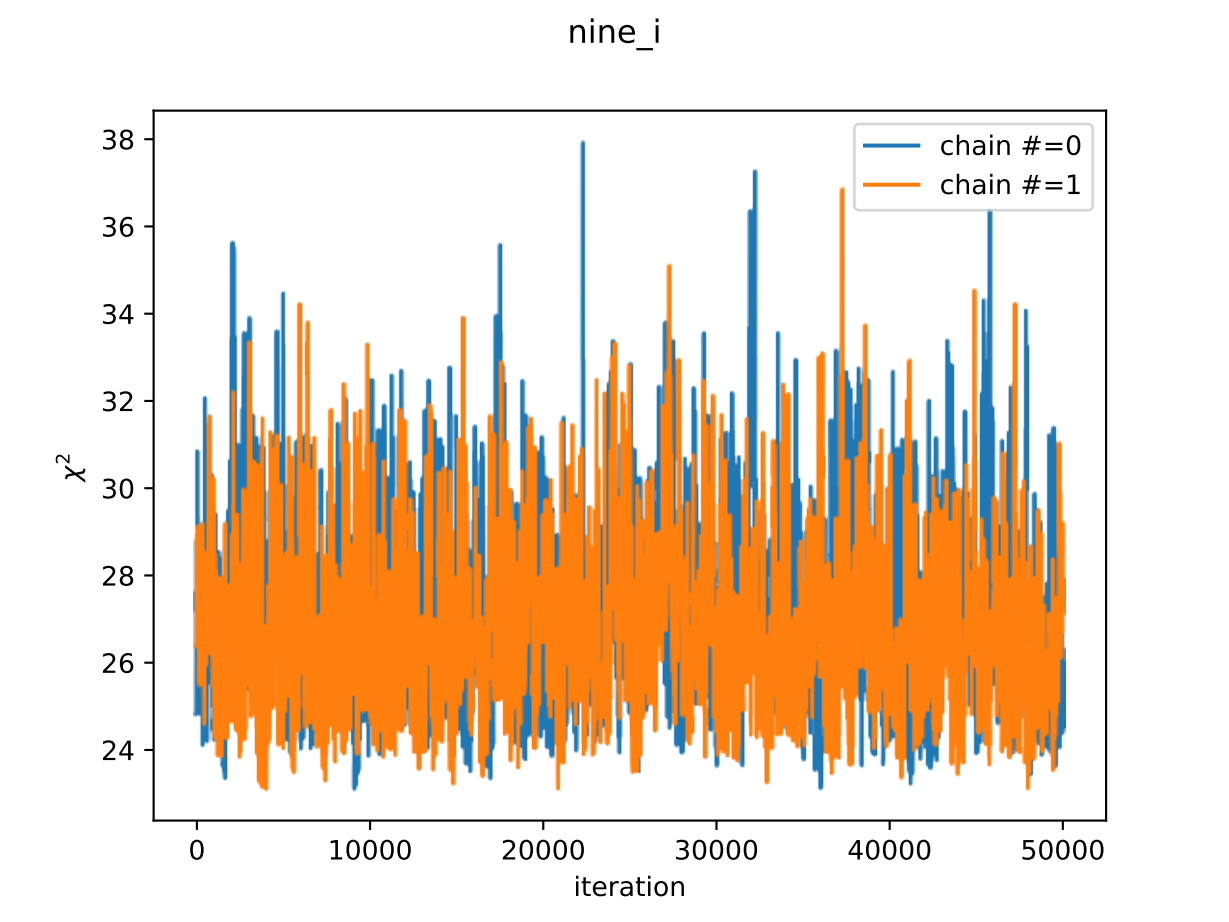

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

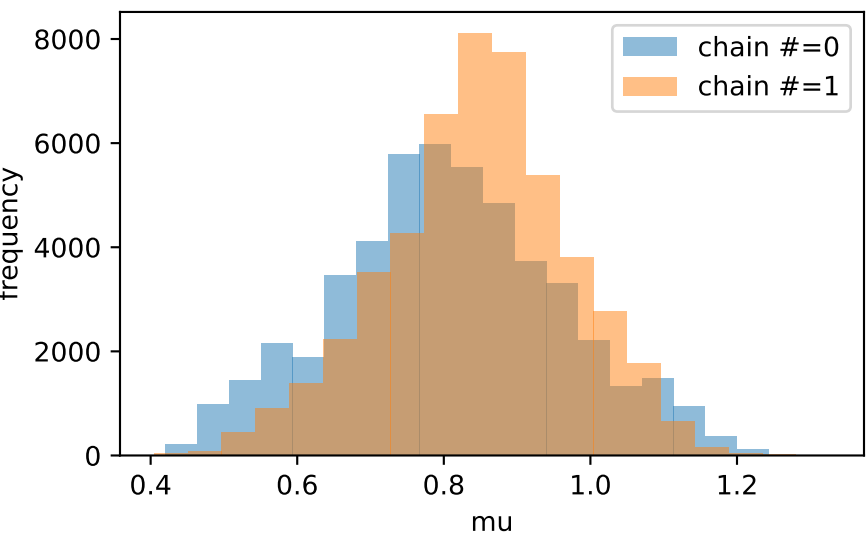
nine_i

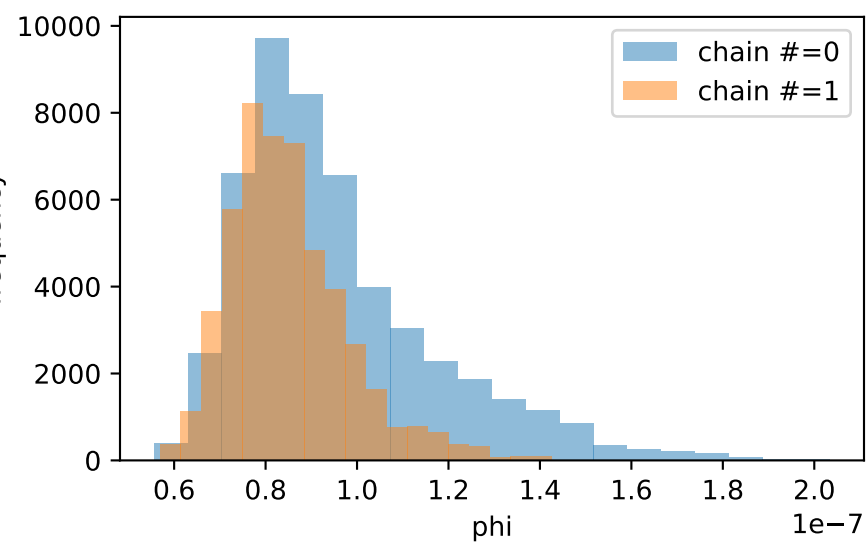

chain #=0
chain #=1
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0

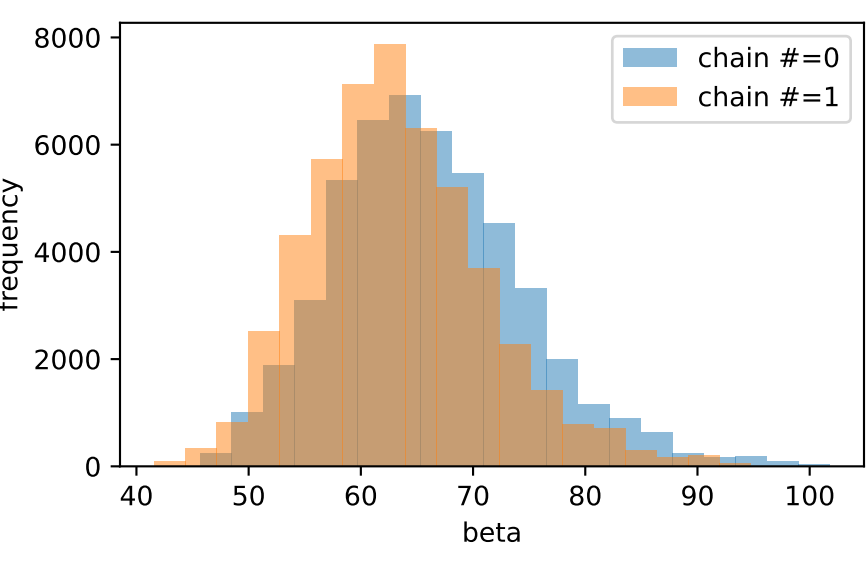

nine_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
24
26
28
30
32
34
36
38
χ^2

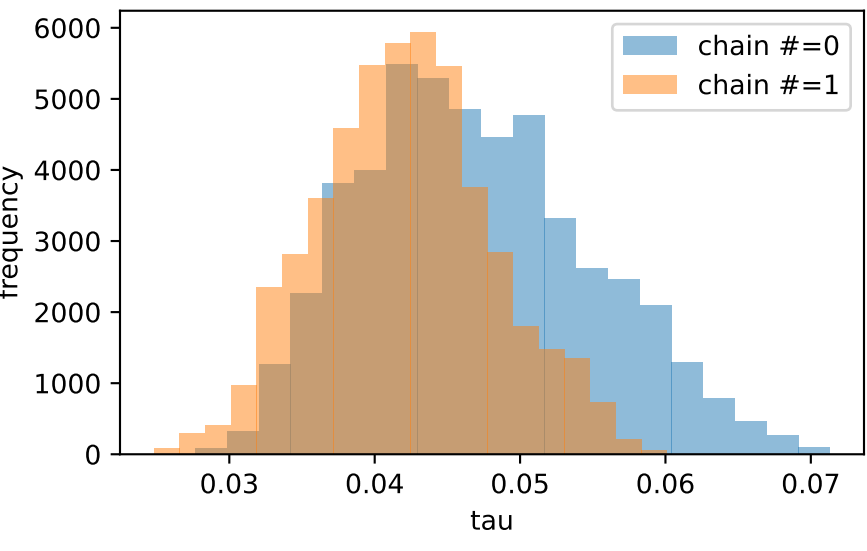

nine_i
chain #=0
chain #=1
38
36
34
32
30
28
26
24
χ^2
0
10000
20000
30000
40000
50000
iteration

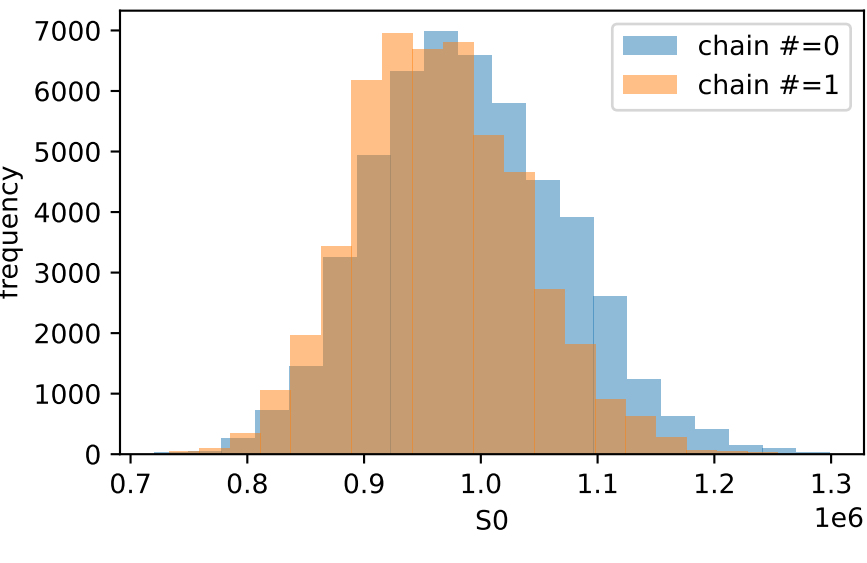
ten_i

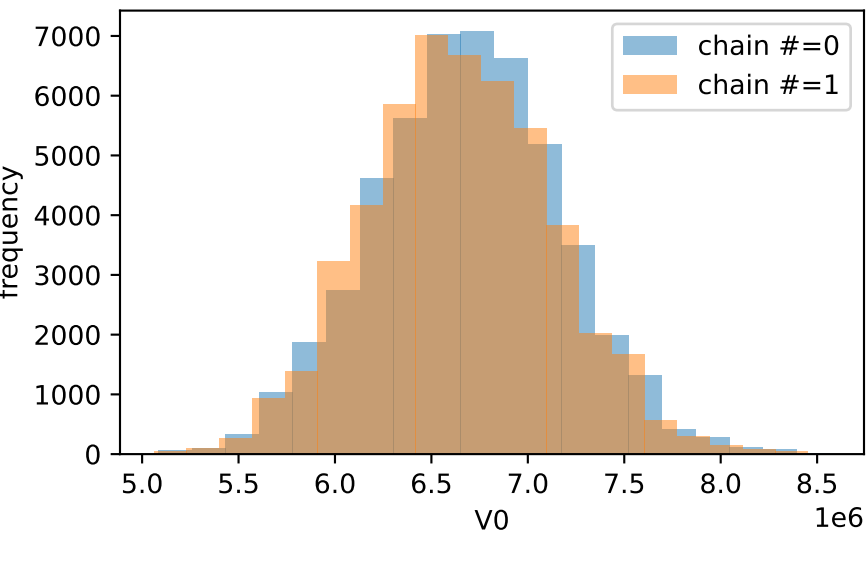

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
phi
1e−7

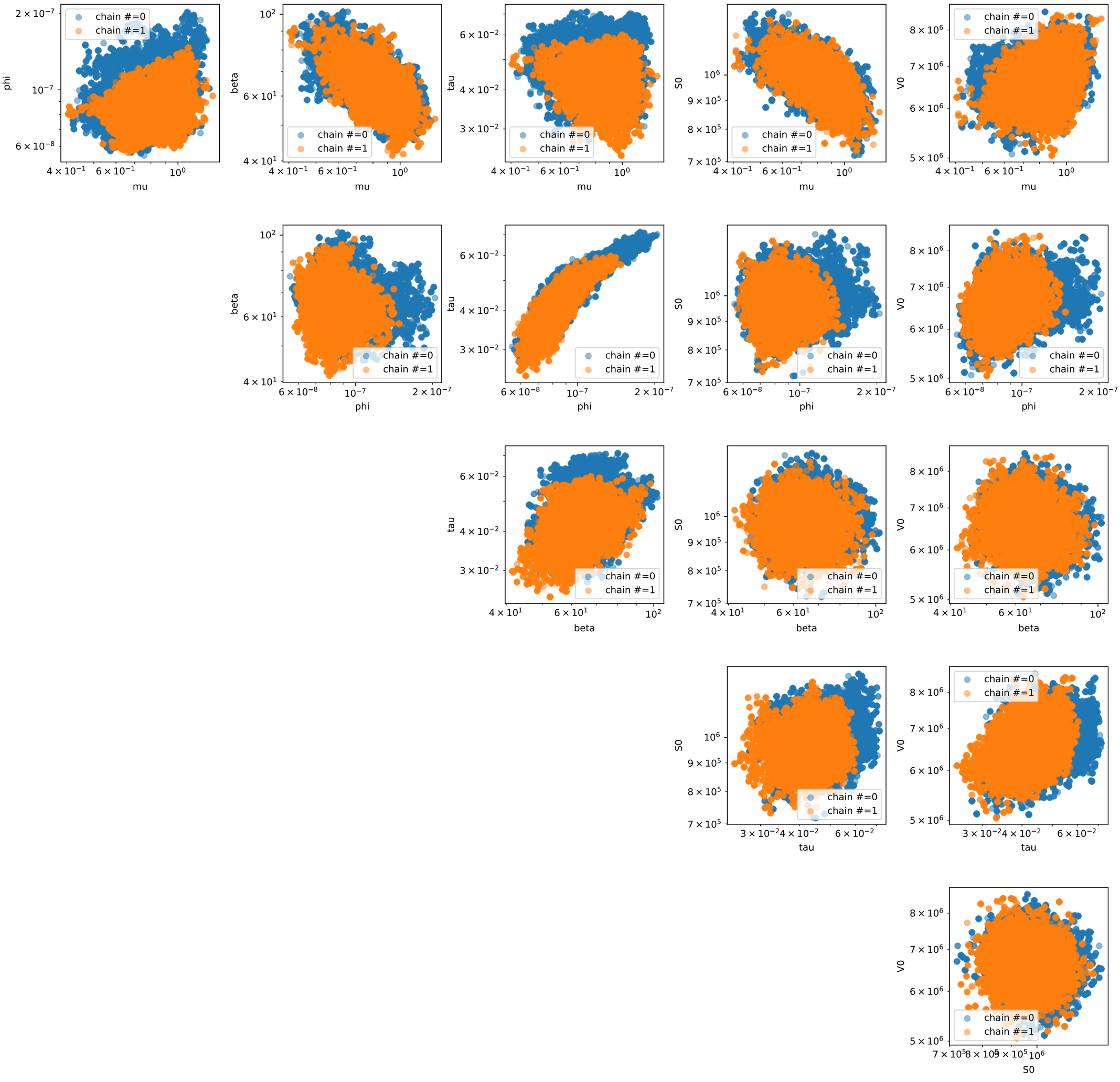

chain #=0
chain #=1
frequency
beta

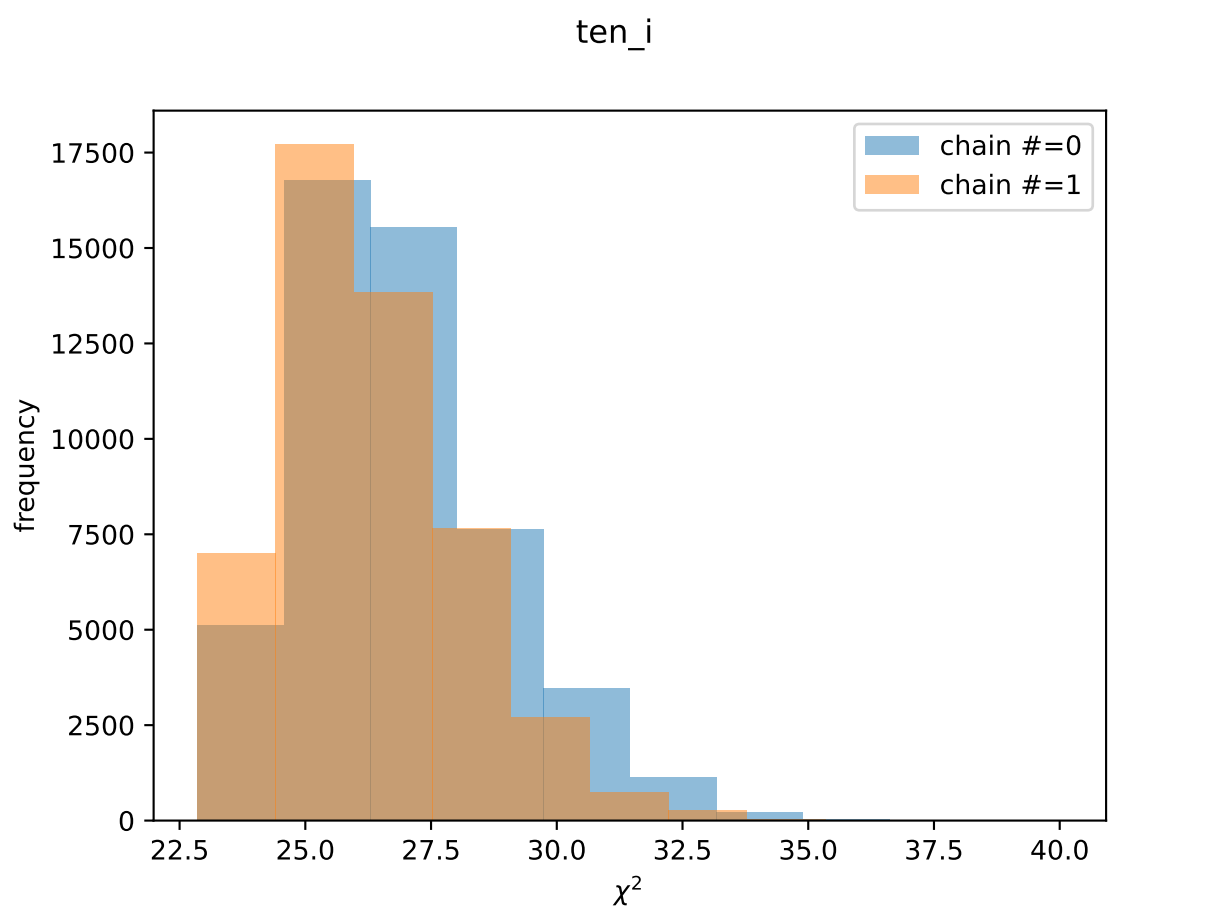

chain #=0
chain #=1
frequency
tau

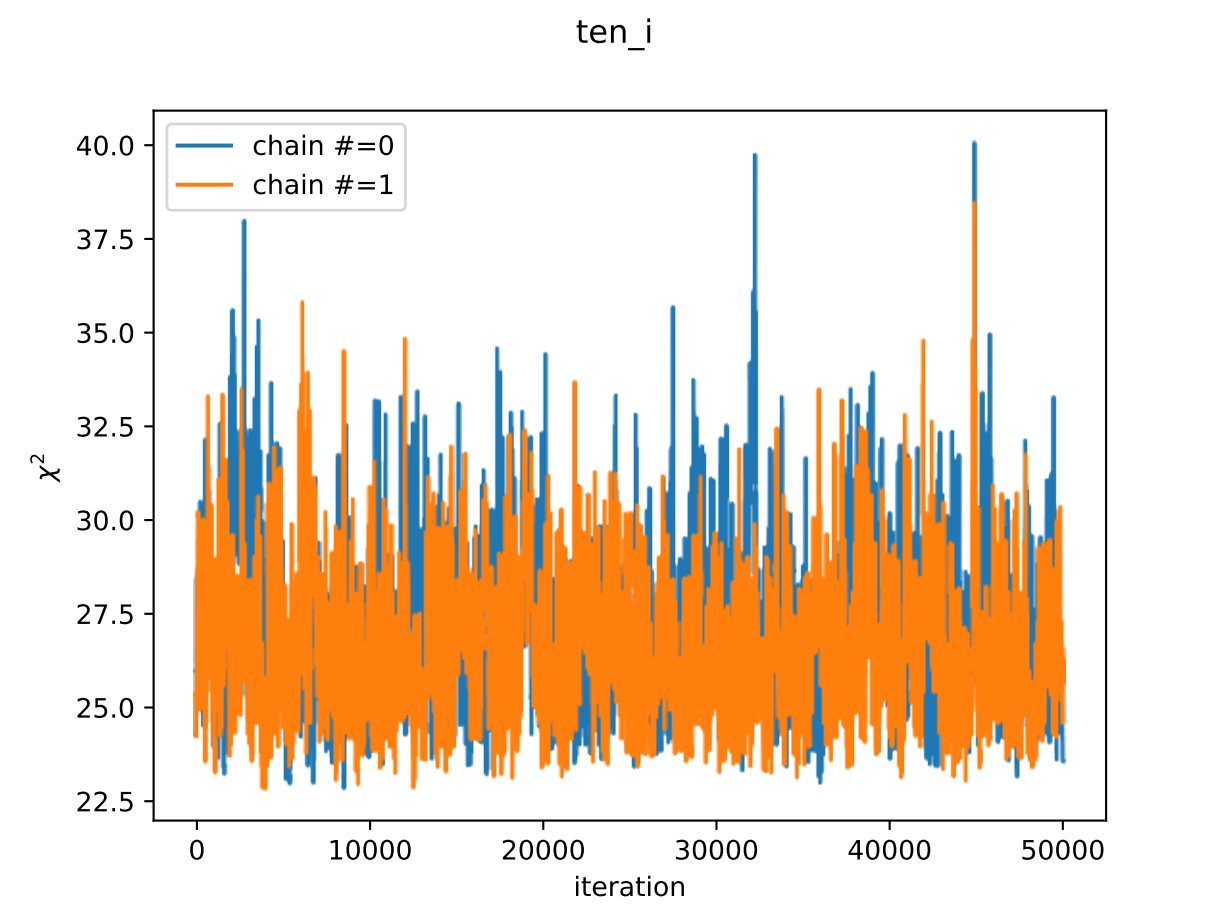

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0
1e6

ten_i




ten_i
chain #=0
chain #=1
frequency
17500
15000
12500
10000
7500
5000
2500
0
22.5
25.0
27.5
30.0
32.5
35.0
37.5
40.0
χ^2


ten_i
chain #=0
chain #=1
40.0
37.5
35.0
32.5
30.0
27.5
25.0
22.5
χ^2
0
10000
20000
30000
40000
50000
iteration