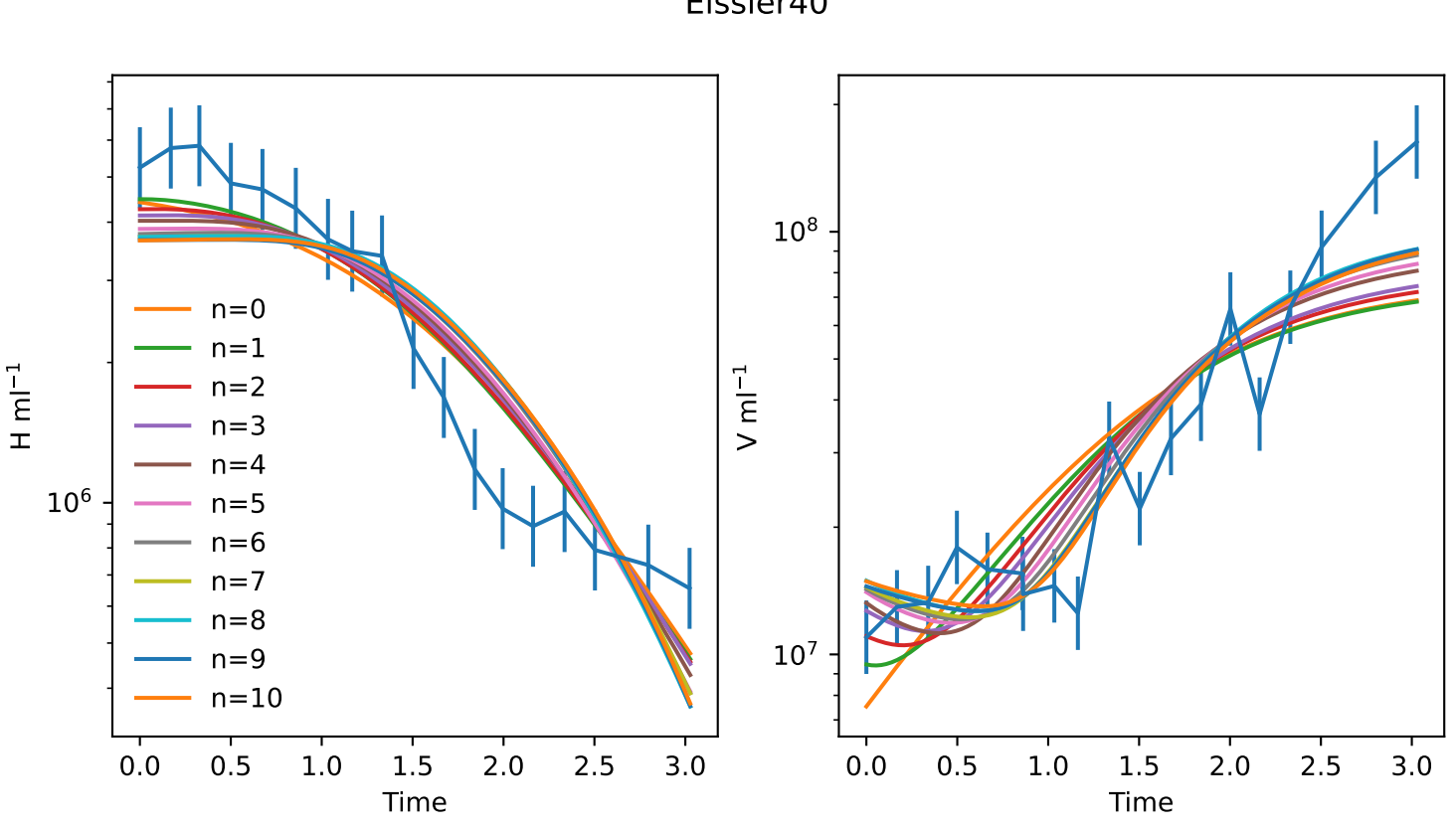
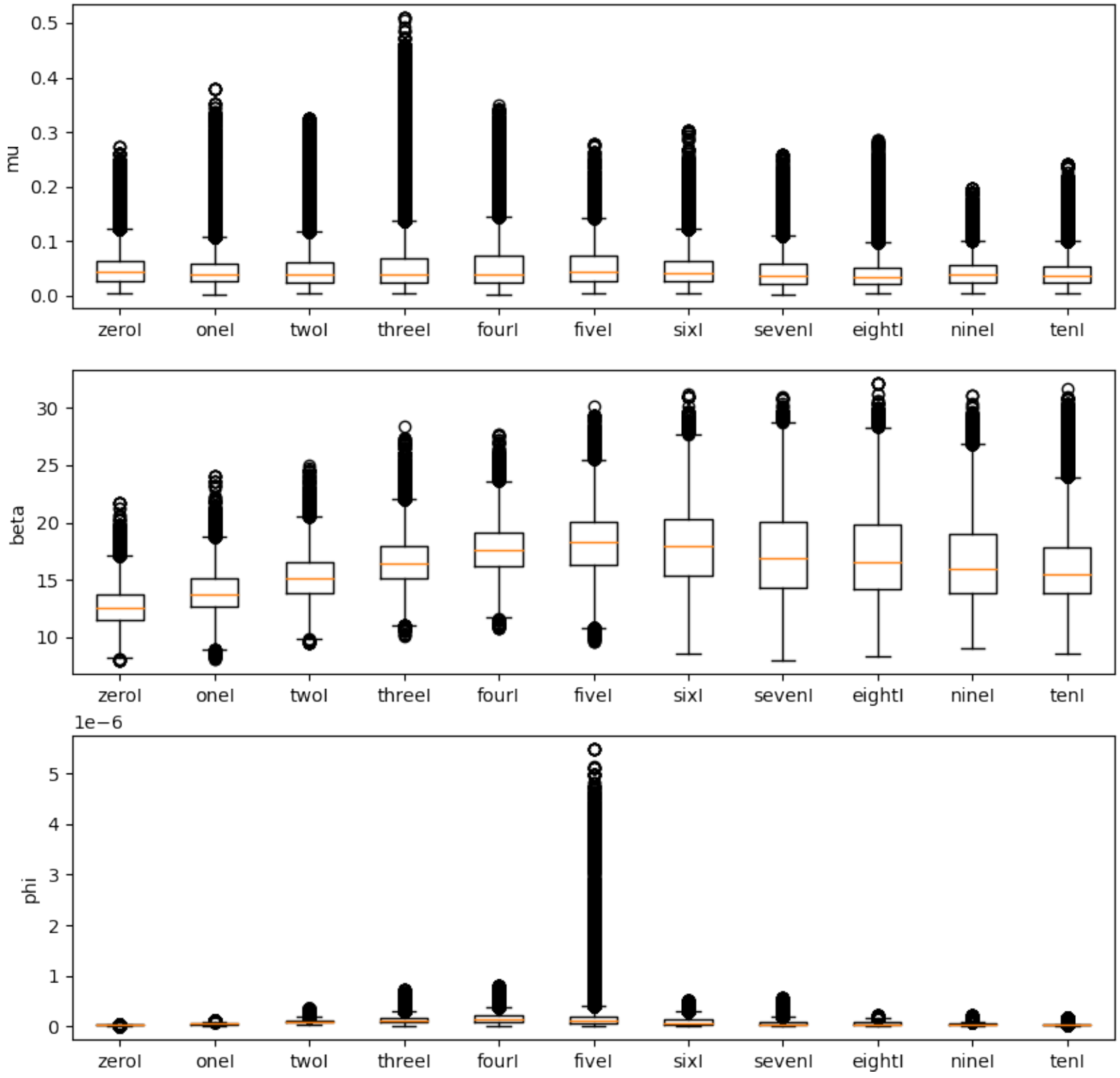
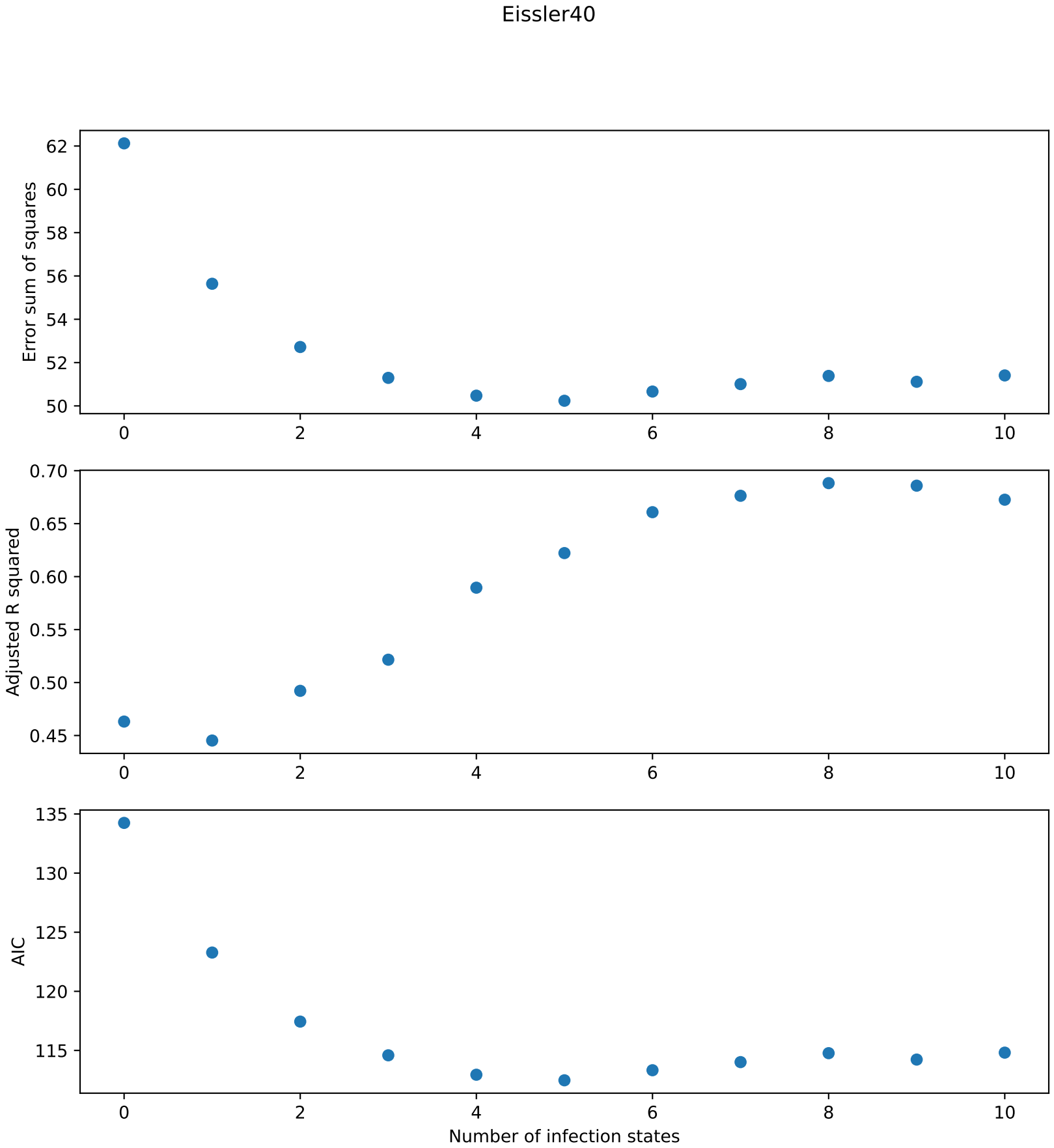
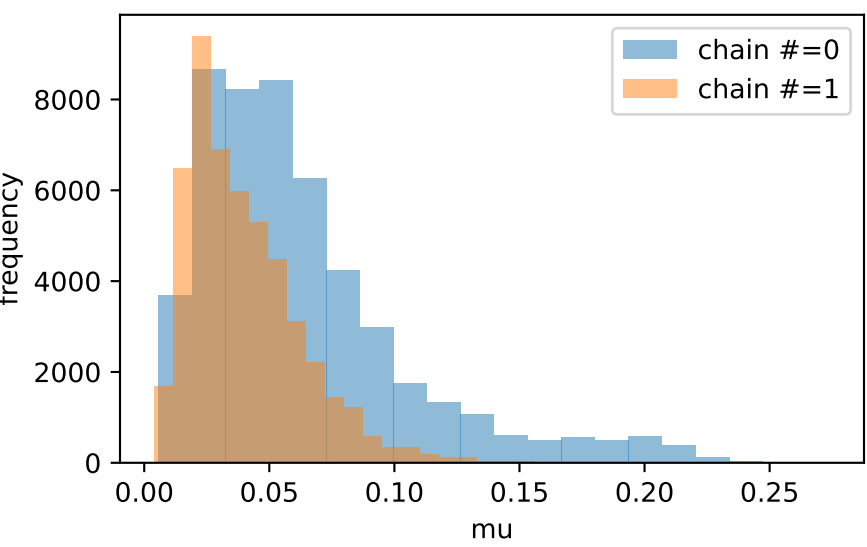

Eissler40
H ml^{-1}
10^6
n=0
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8
n=9
n=10
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Time
V ml^{-1}
10^8
10^7
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Time

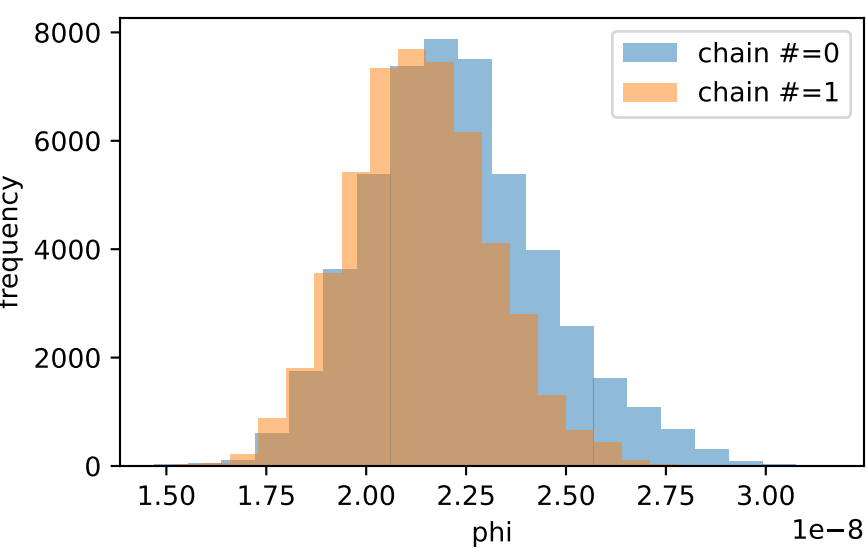
Eissler40

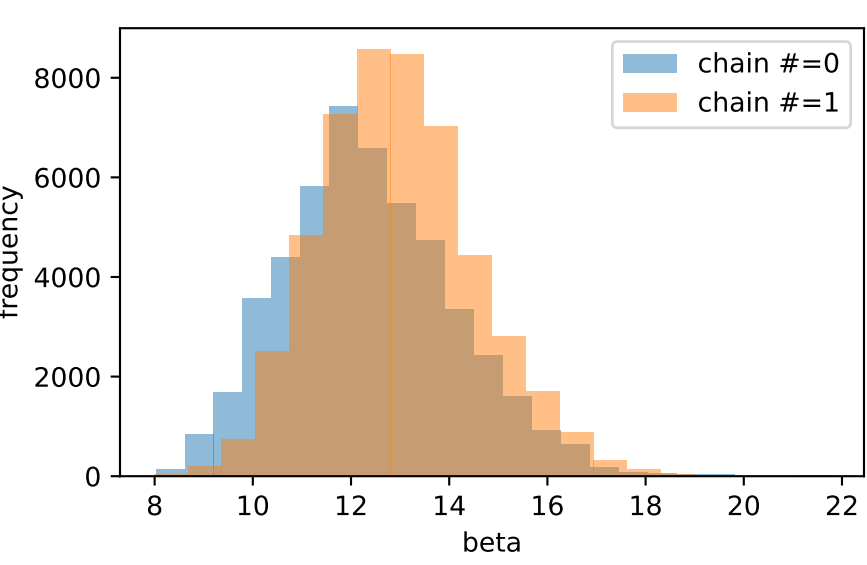

mu
0.0
0.1
0.2
0.3
0.4
0.5
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI
beta
10
15
20
25
30
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI
1e−6
phi
0
1
2
3
4
5
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI

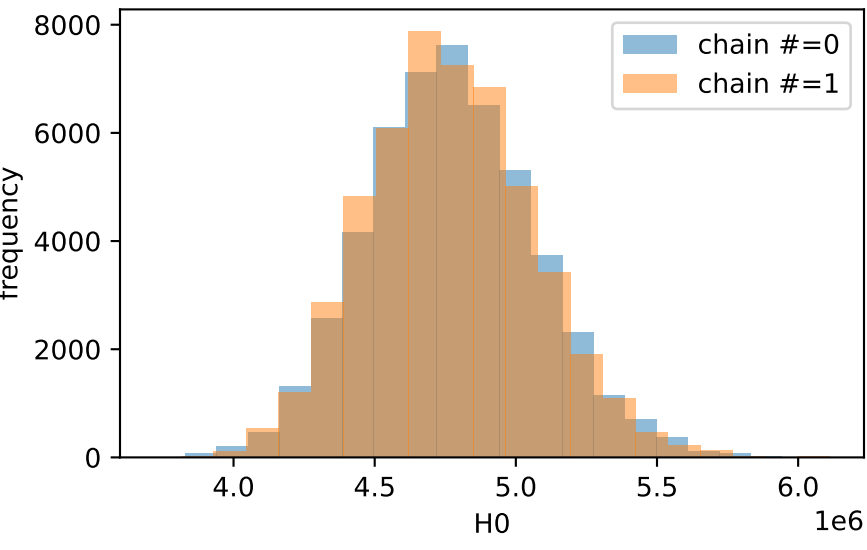

Eissler40
Error sum of squares
62
60
58
56
54
52
50
0
2
4
6
8
10
Adjusted R squared
0.70
0.65
0.60
0.55
0.50
0.45
0
2
4
6
8
10
AIC
135
130
125
120
115
0
2
4
6
8
10
Number of infection states

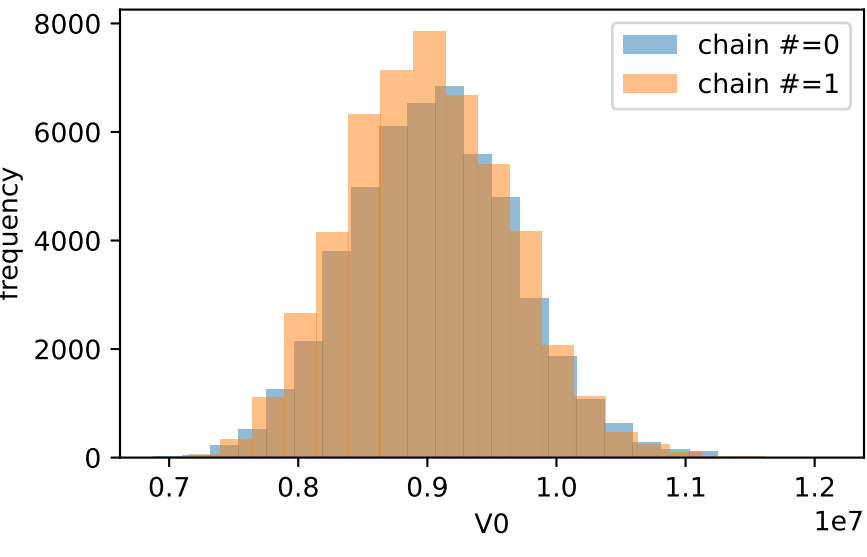
zero_i


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
mu

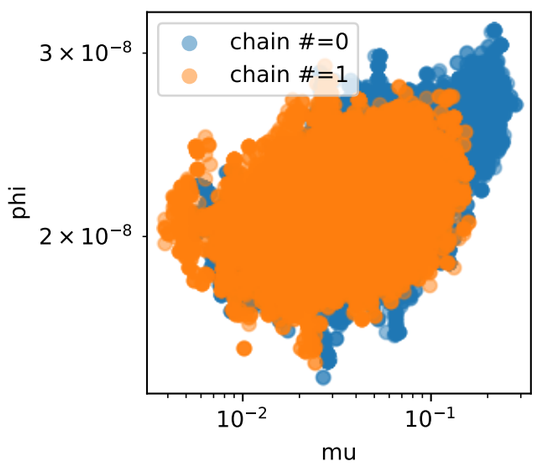

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
1.50
1.75
2.00
2.25
2.50
2.75
3.00
phi
1e−8

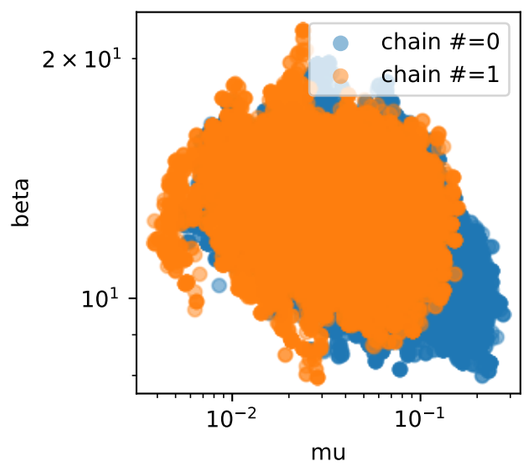

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
8
10
12
14
16
18
20
22
beta

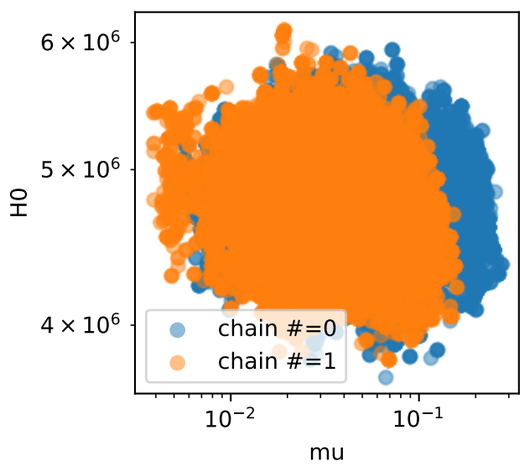

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
4.0
4.5
5.0
5.5
6.0
H0
1e6

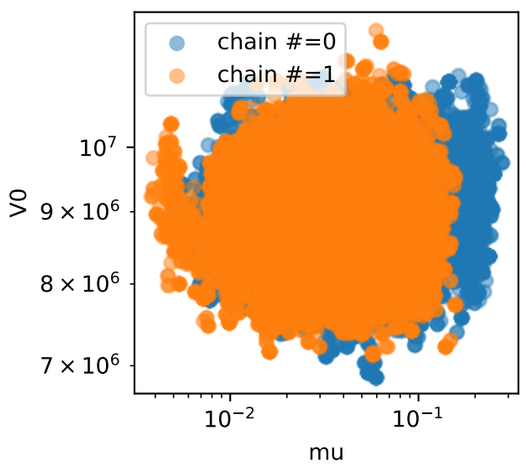

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.7
0.8
0.9
1.0
1.1
1.2
V0
1e7

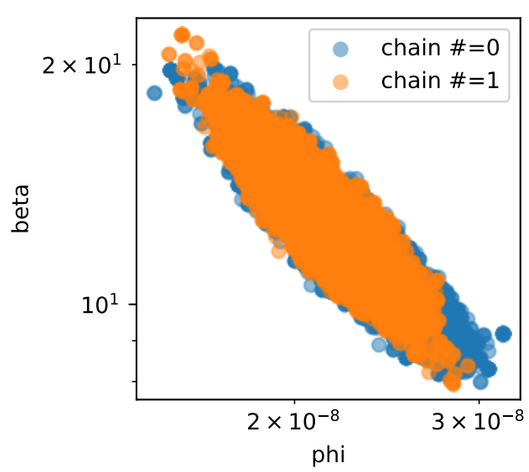
zero_i

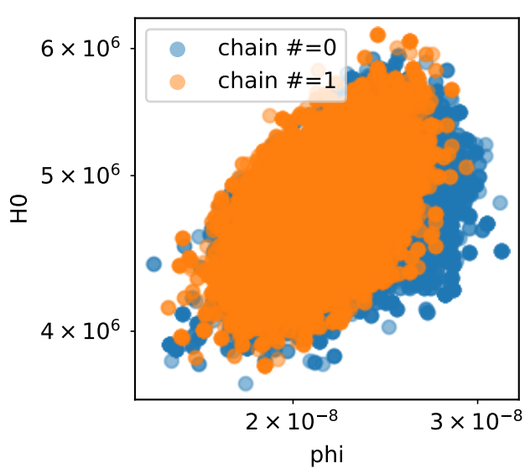

chain #=0
chain #=1
phi
mu

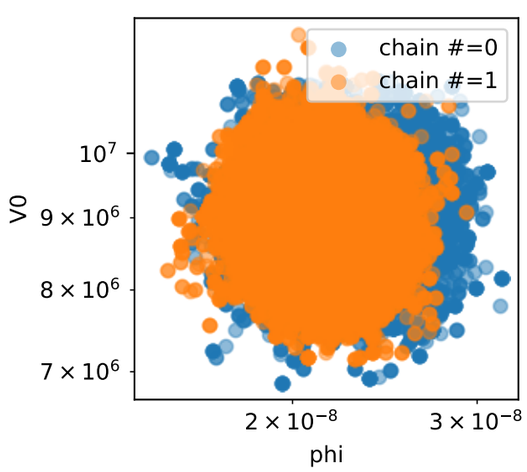

chain #=0
chain #=1
beta
mu

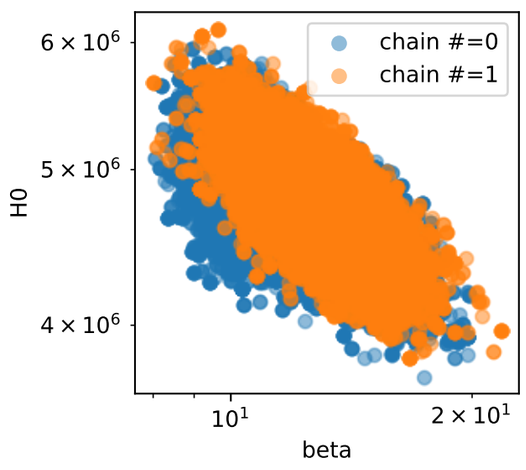

chain #=0
chain #=1
H0
mu

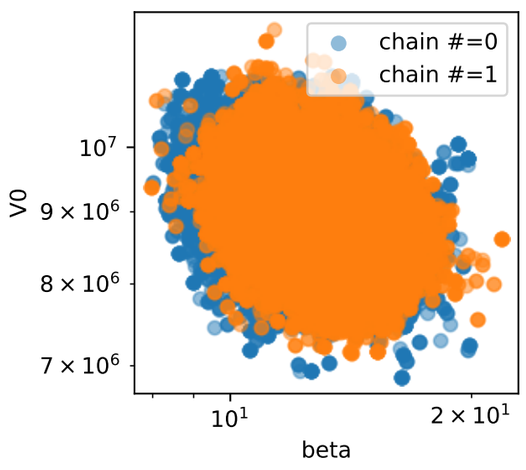

chain #=0
chain #=1
V0
mu

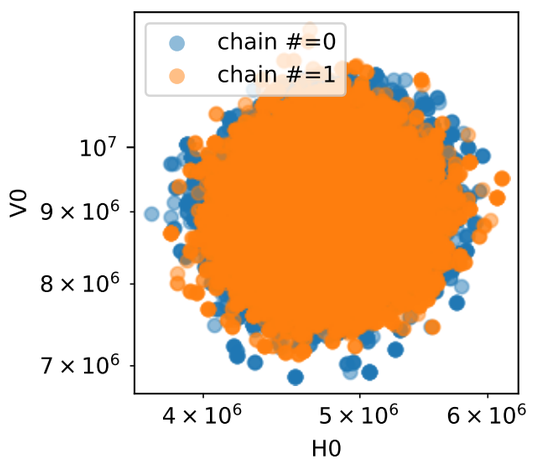

chain #=0
chain #=1
beta
phi

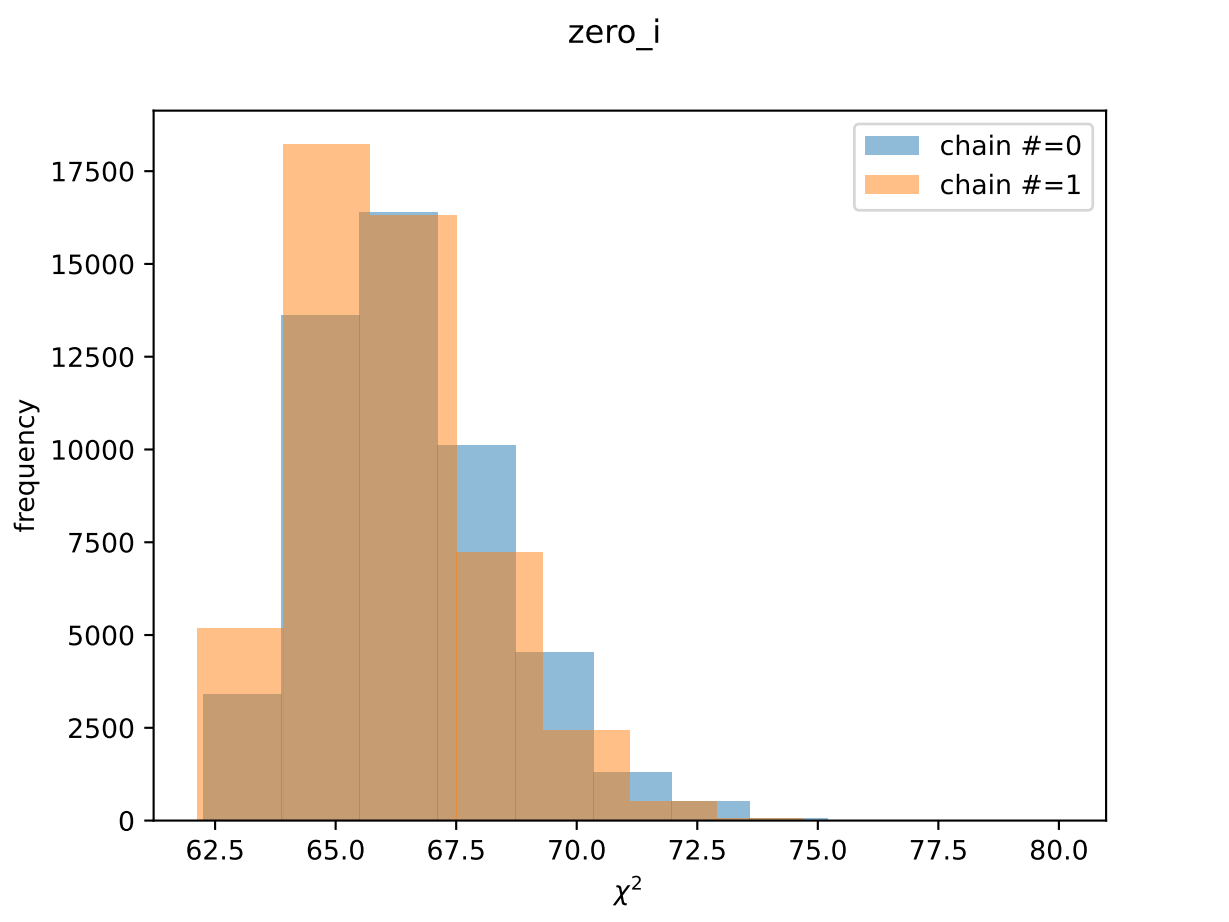

chain #=0
chain #=1
H0
phi

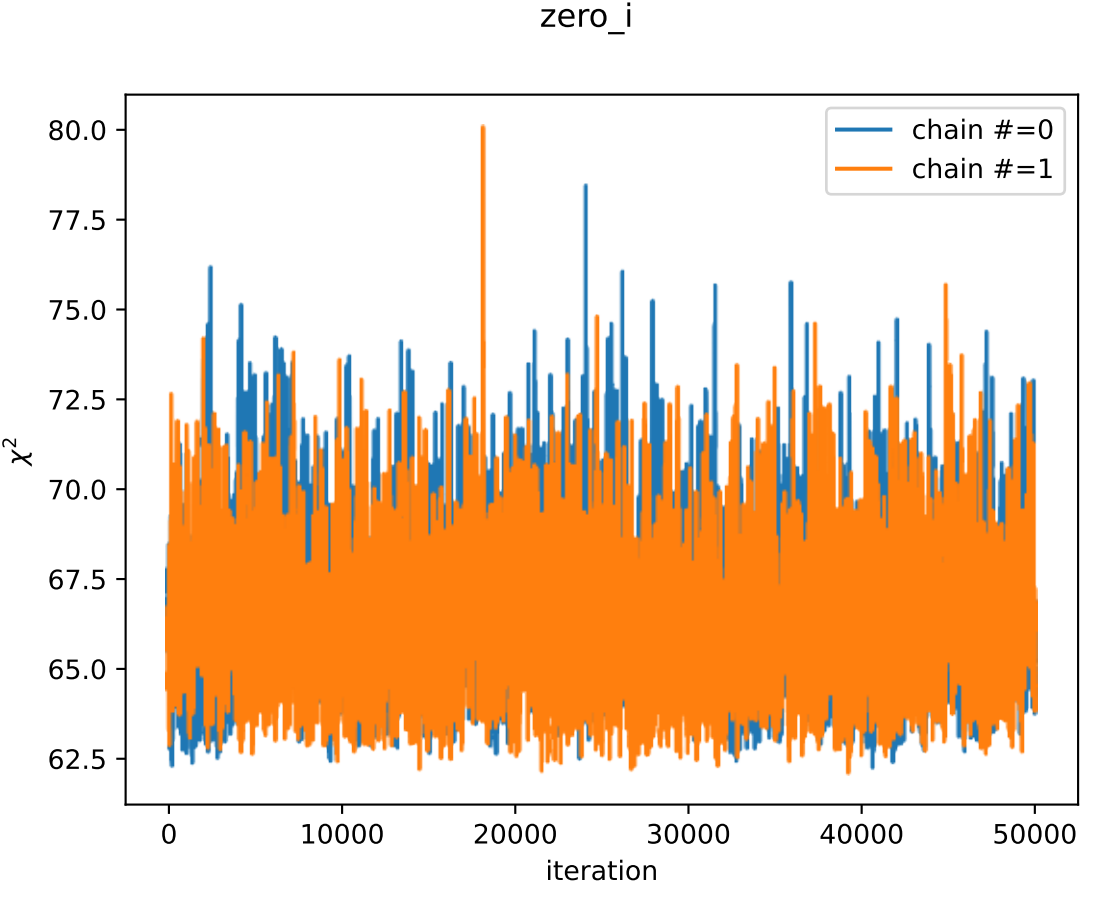

chain #=0
chain #=1
V0
phi


chain #=0
chain #=1
H0
beta

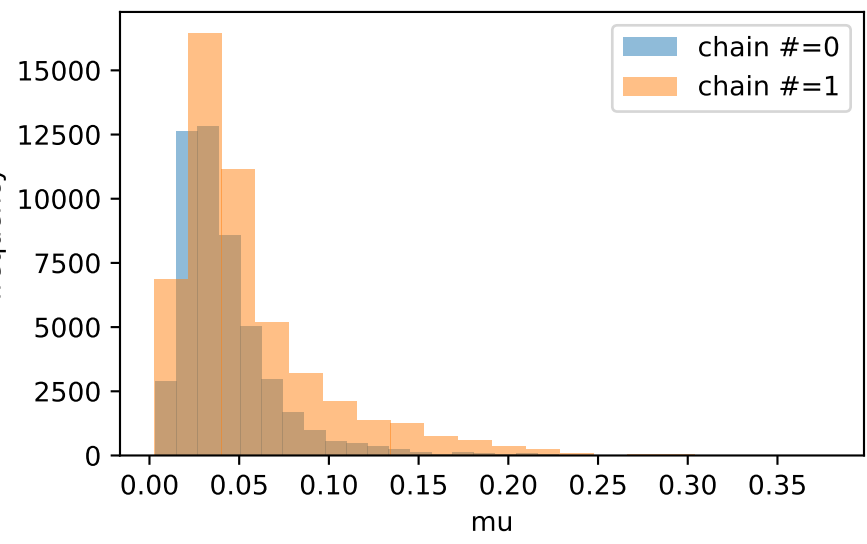

chain #=0
chain #=1
V0
beta

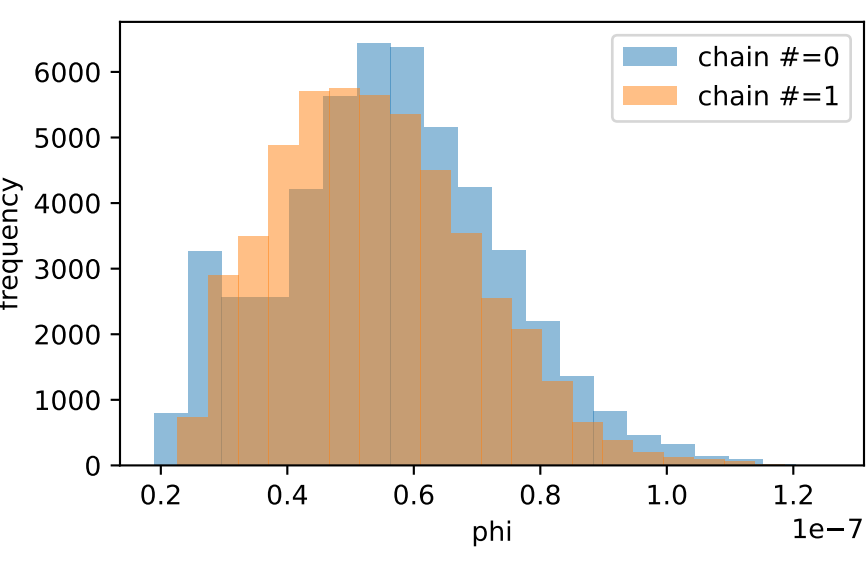

chain #=0
chain #=1
V0
H0

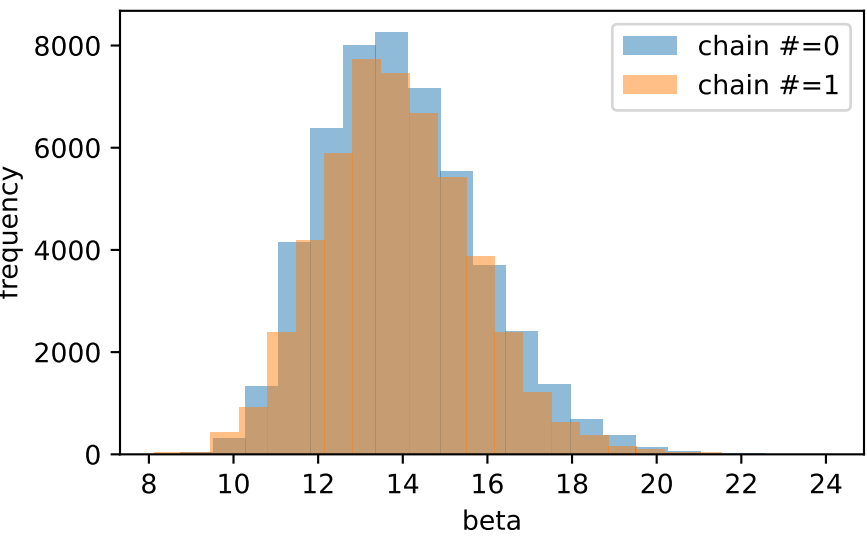

zero_i
chain #=0
chain #=1
frequency
17500
15000
12500
10000
7500
5000
2500
0
62.5
65.0
67.5
70.0
72.5
75.0
77.5
80.0
χ^2

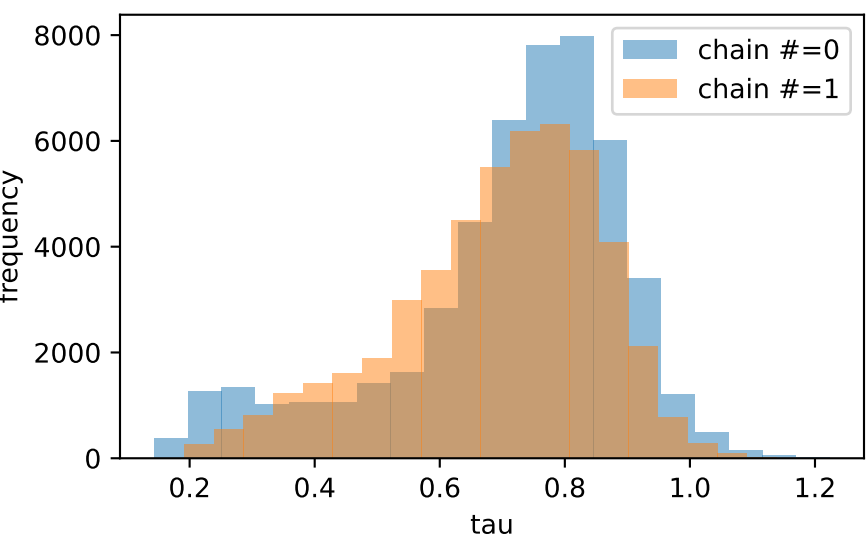

zero_i
chain #=0
chain #=1
80.0
77.5
75.0
72.5
70.0
67.5
65.0
62.5
χ^2
0
10000
20000
30000
40000
50000
iteration

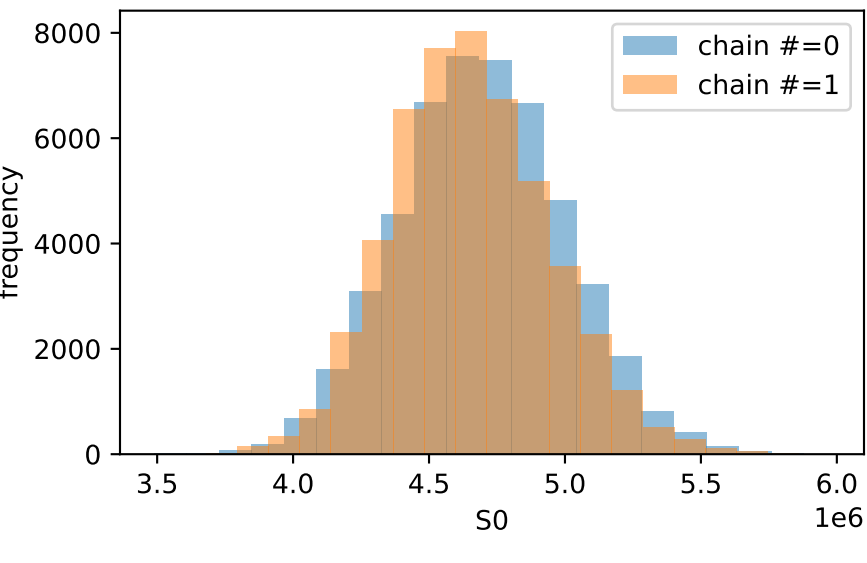
one_i

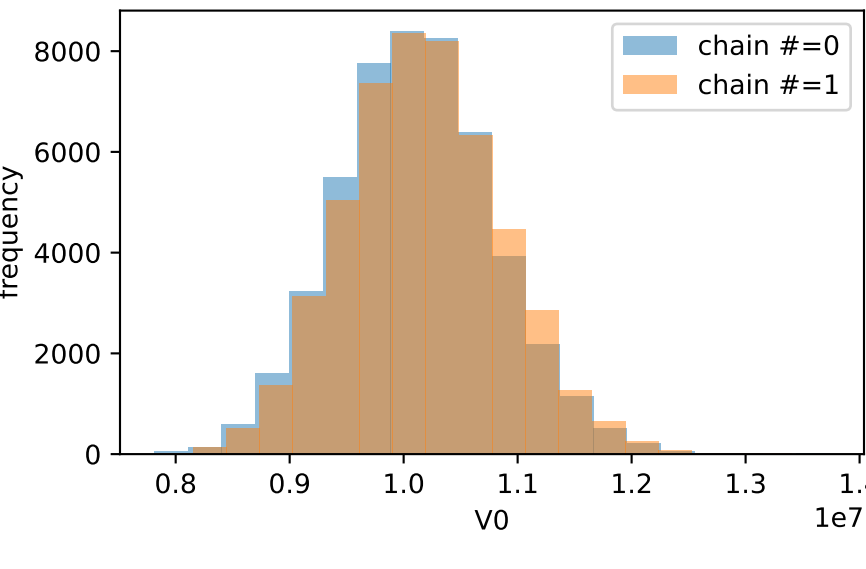

chain #=0
chain #=1
15000
12500
10000
7500
5000
2500
0
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
mu


chain #=0
chain #=1
frequency
6000
5000
4000
3000
2000
1000
0
0.2
0.4
0.6
0.8
1.0
1.2
phi
1e−7

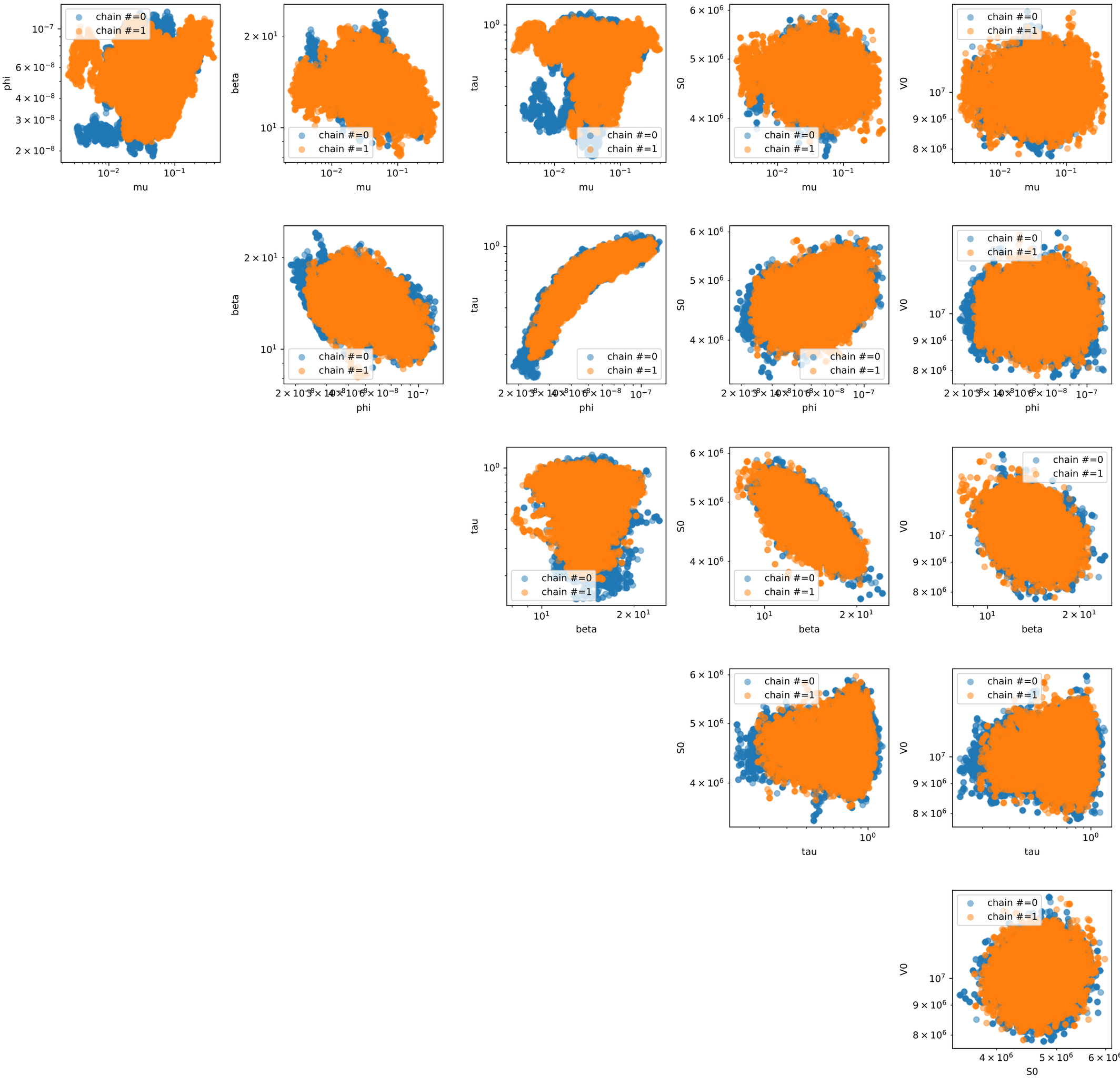

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
8
10
12
14
16
18
20
22
24
beta

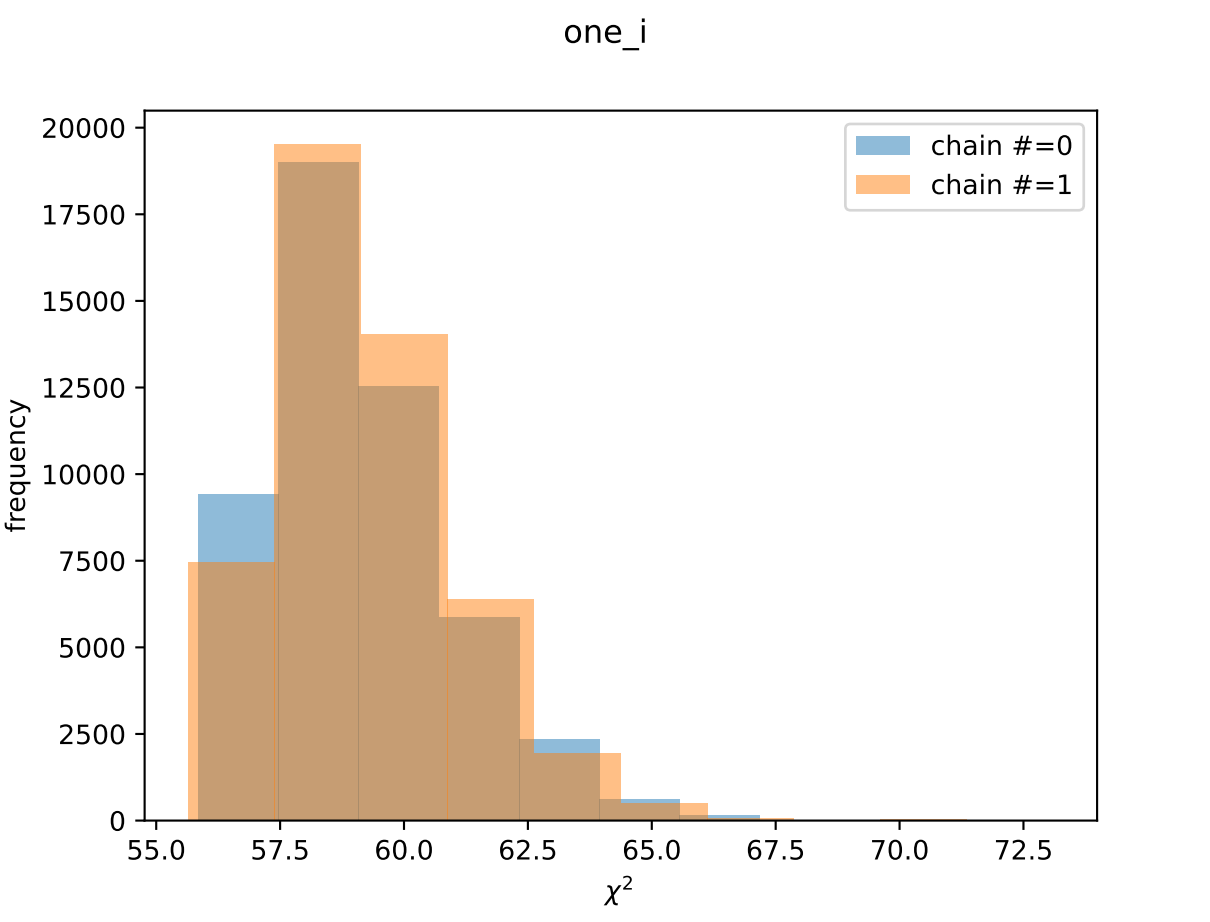

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.2
0.4
0.6
0.8
1.0
1.2
tau

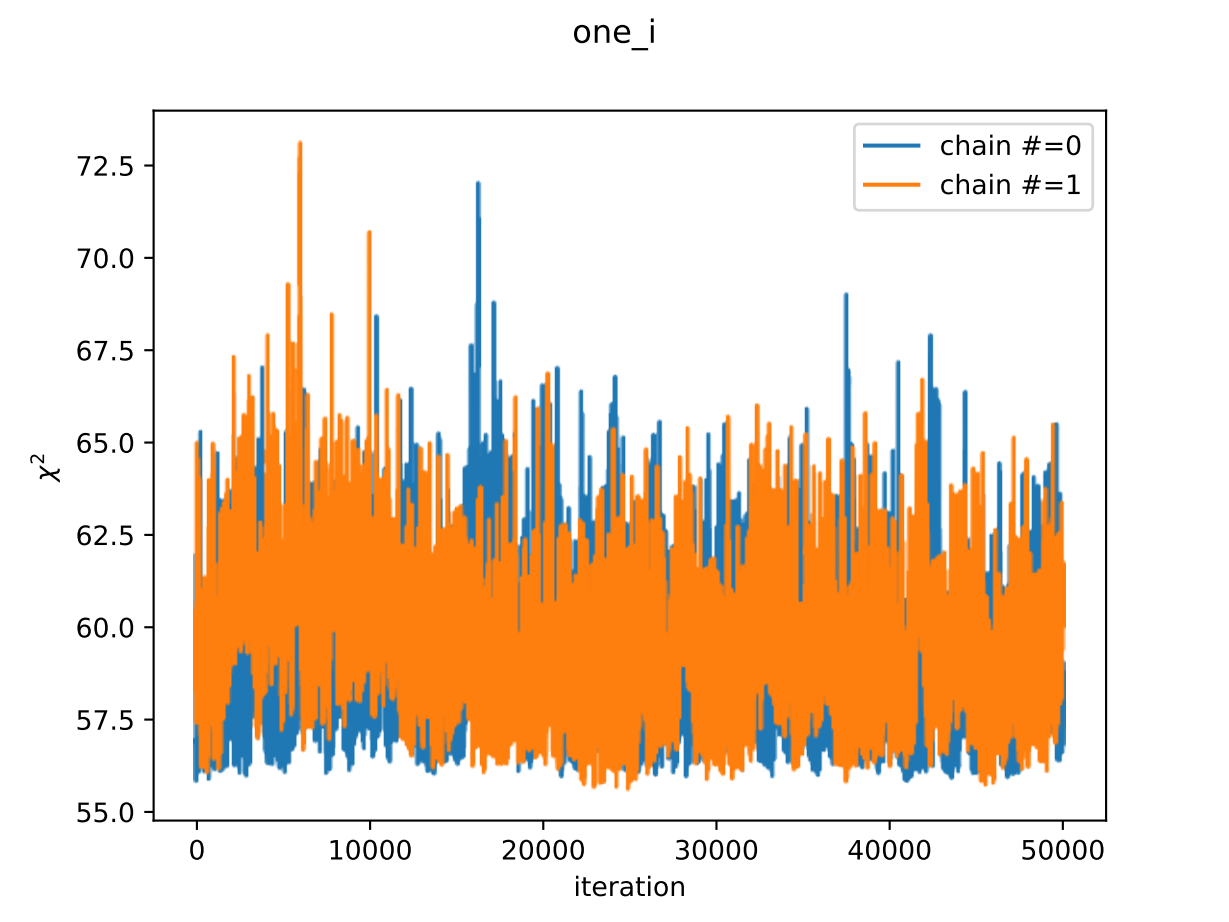

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
3.5
4.0
4.5
5.0
5.5
6.0
S0
1e6


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.8
0.9
1.0
1.1
1.2
1.3
1.4
V0
1e7

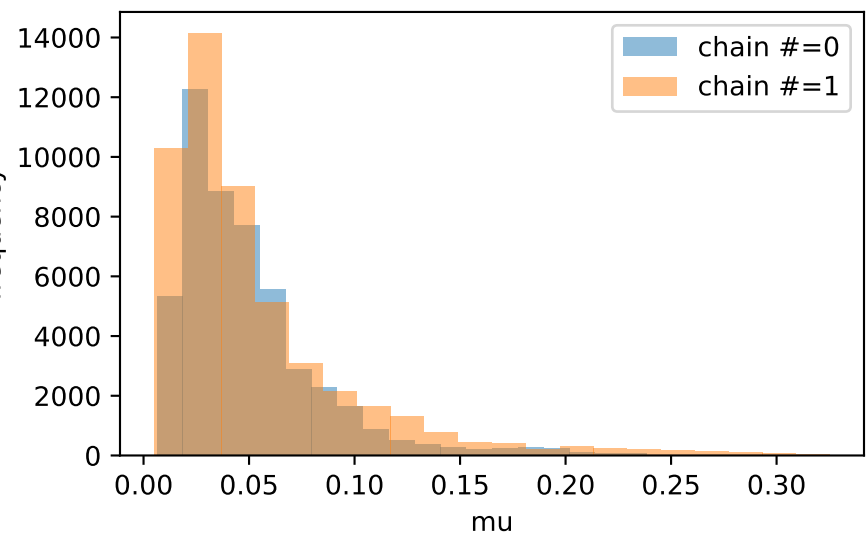
one_i

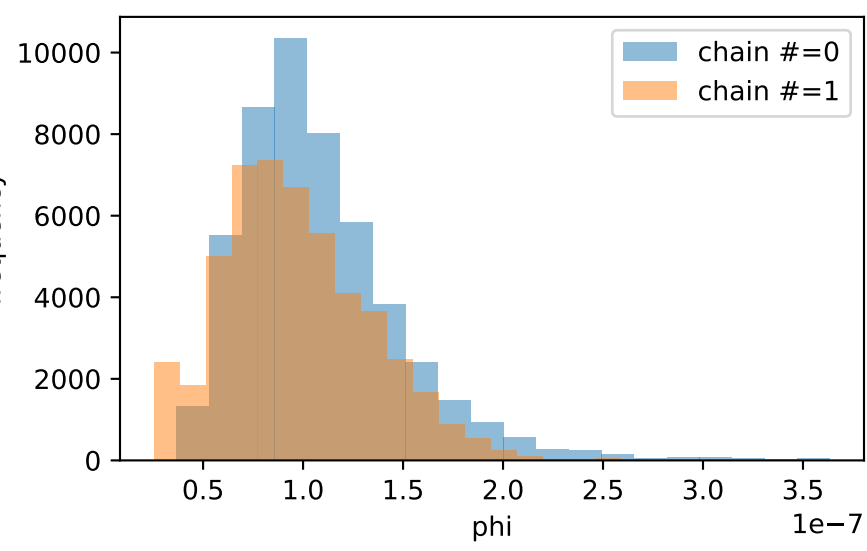


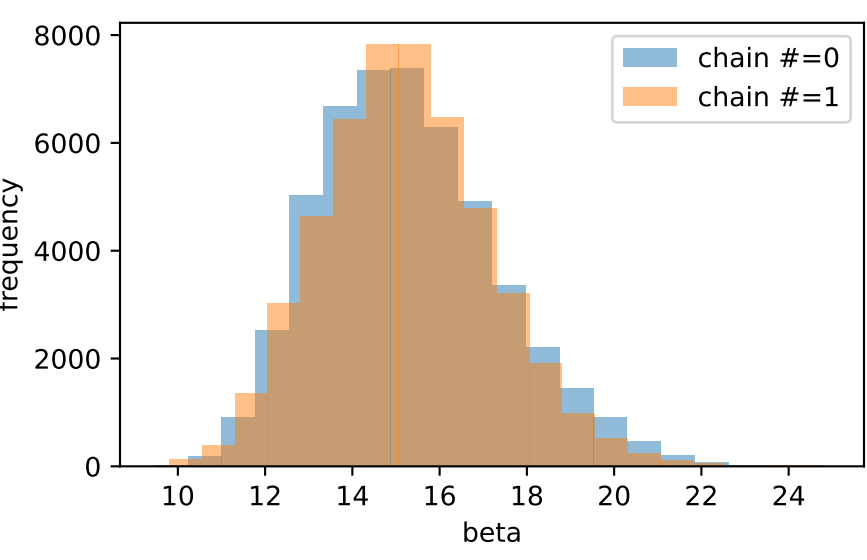

one_i
chain #=0
chain #=1
frequency
20000
17500
15000
12500
10000
7500
5000
2500
0
55.0
57.5
60.0
62.5
65.0
67.5
70.0
72.5
χ^2

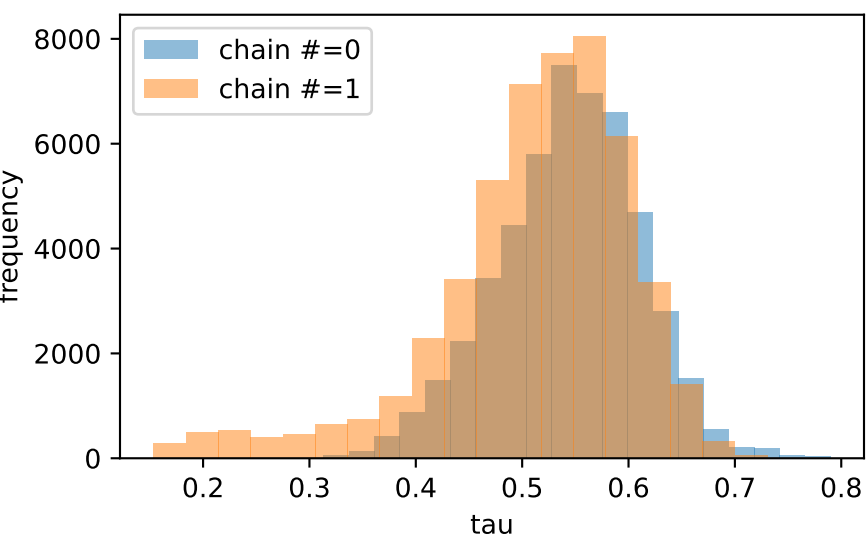

one_i
chain #=0
chain #=1
72.5
70.0
67.5
65.0
62.5
60.0
57.5
55.0
χ^2
0
10000
20000
30000
40000
50000
iteration

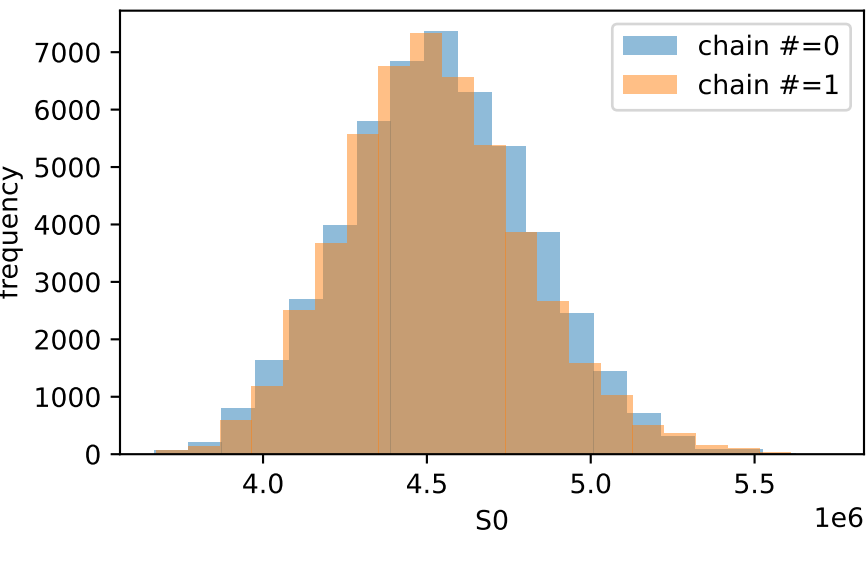
two_i

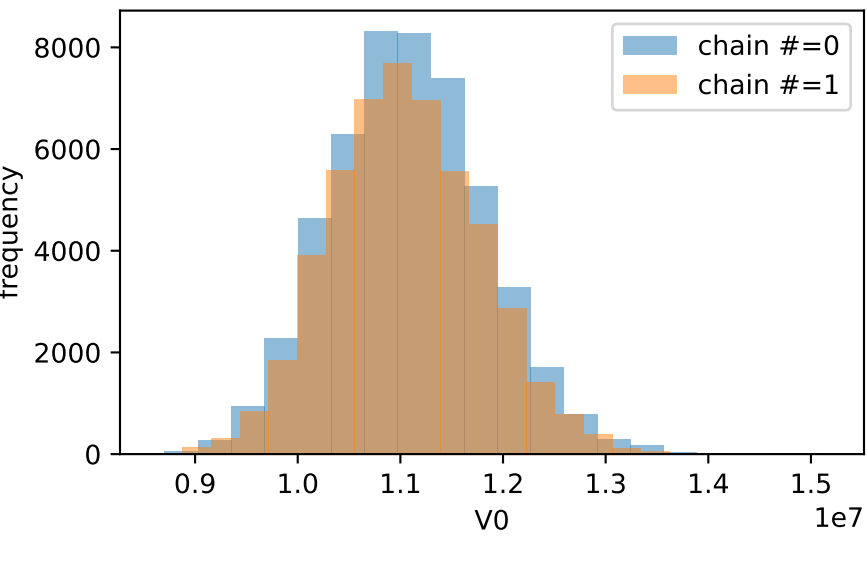

chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
0.30
mu


chain #=0
chain #=1
10000
8000
6000
4000
2000
0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
phi
1e−7

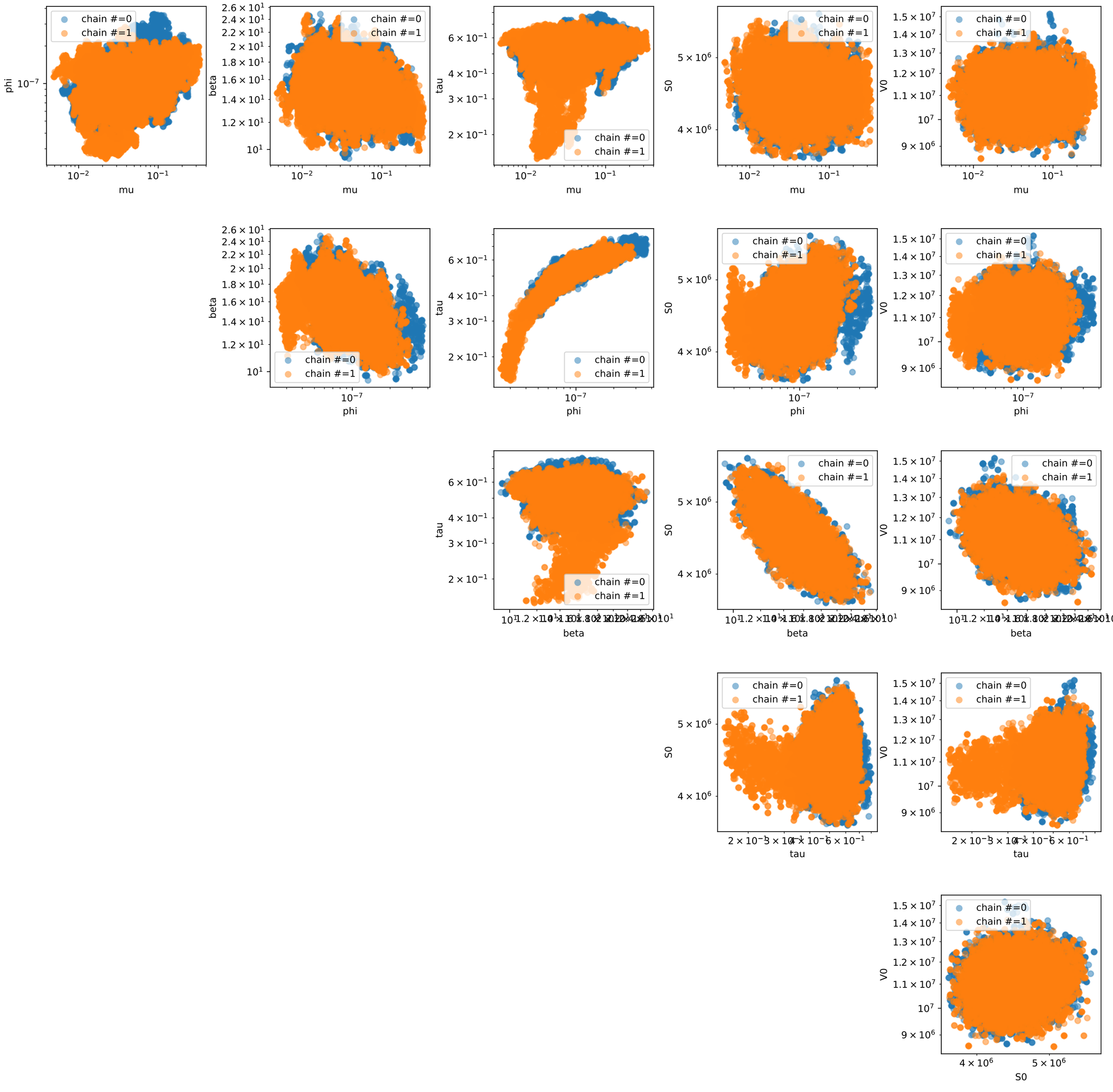

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
12
14
16
18
20
22
24
beta

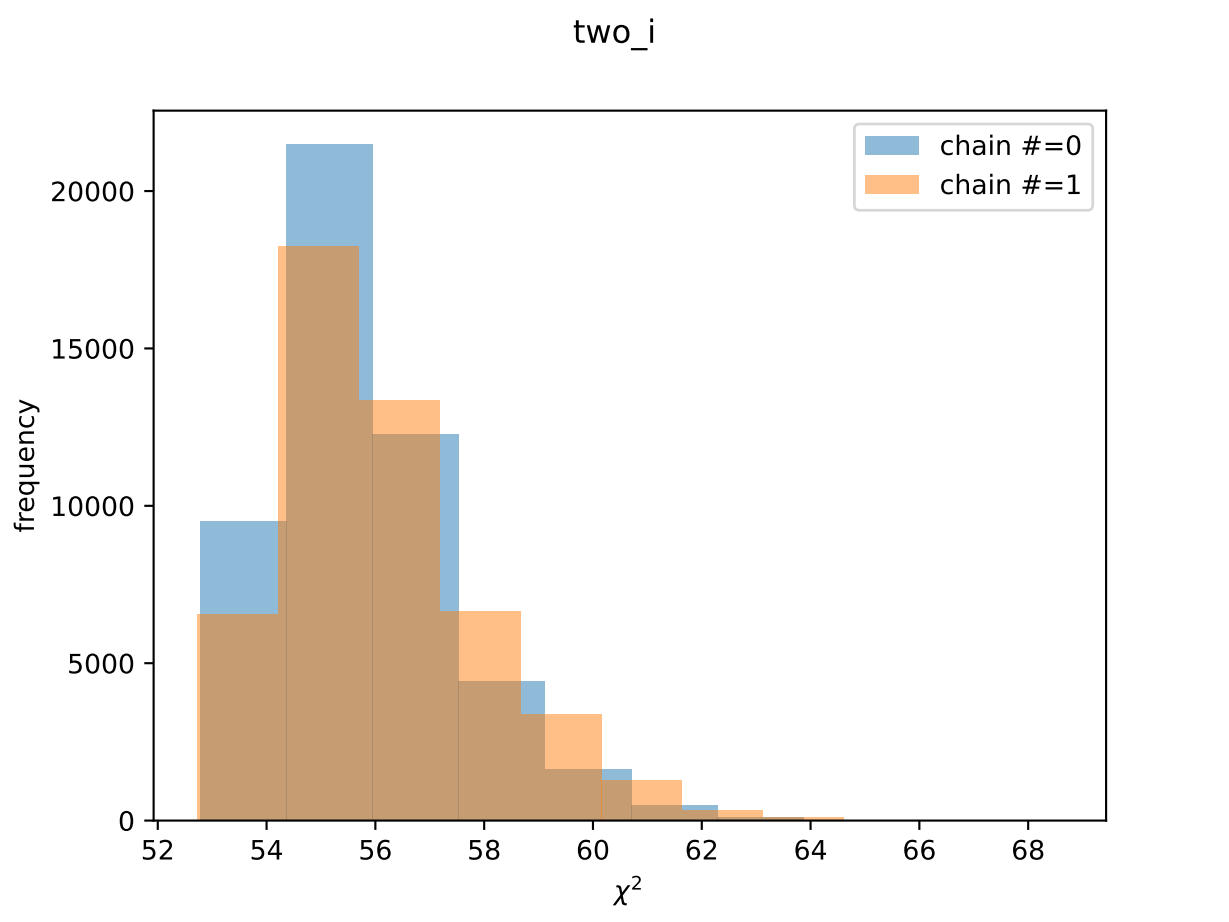

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.2
0.3
0.4
0.5
0.6
0.7
0.8
tau

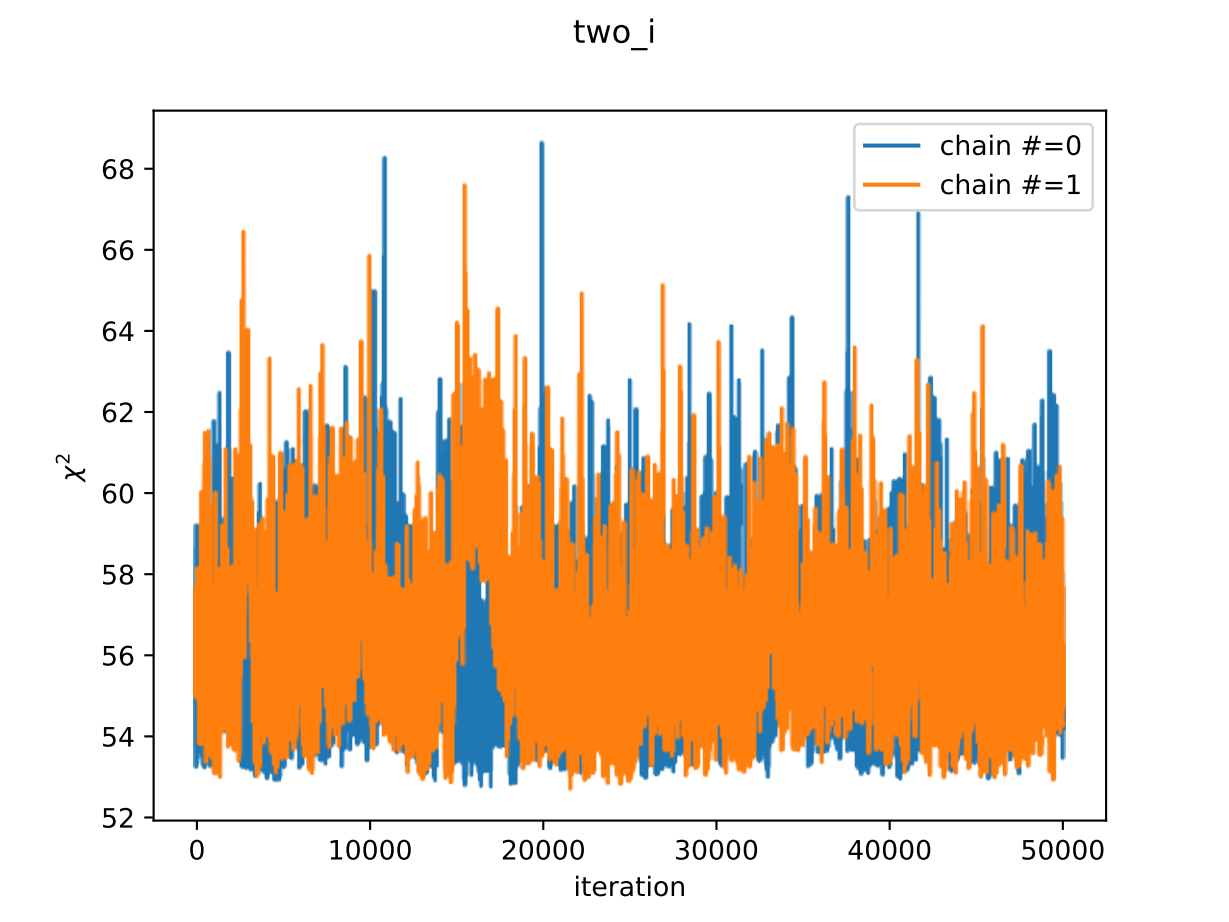

chain #=0
chain #=1
7000
6000
5000
4000
3000
2000
1000
0
frequency
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.9
1.0
1.1
1.2
1.3
1.4
1.5
V0
1e7

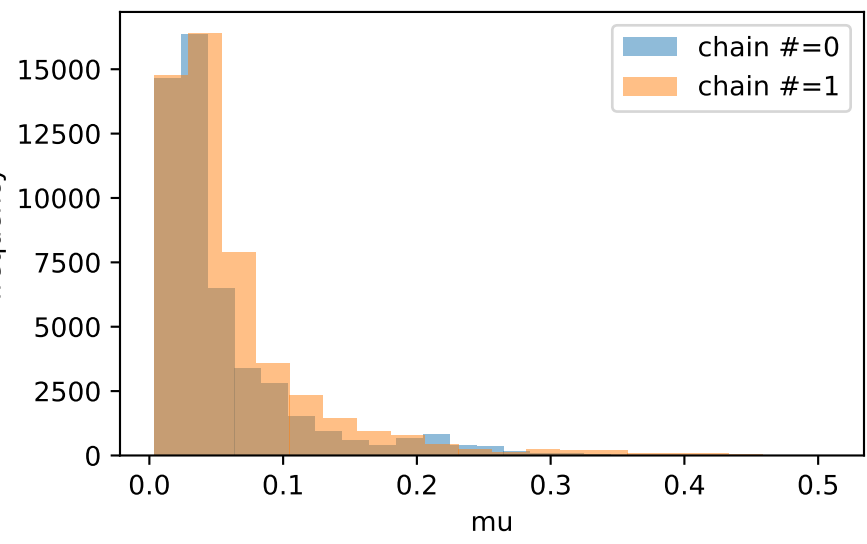
two_i

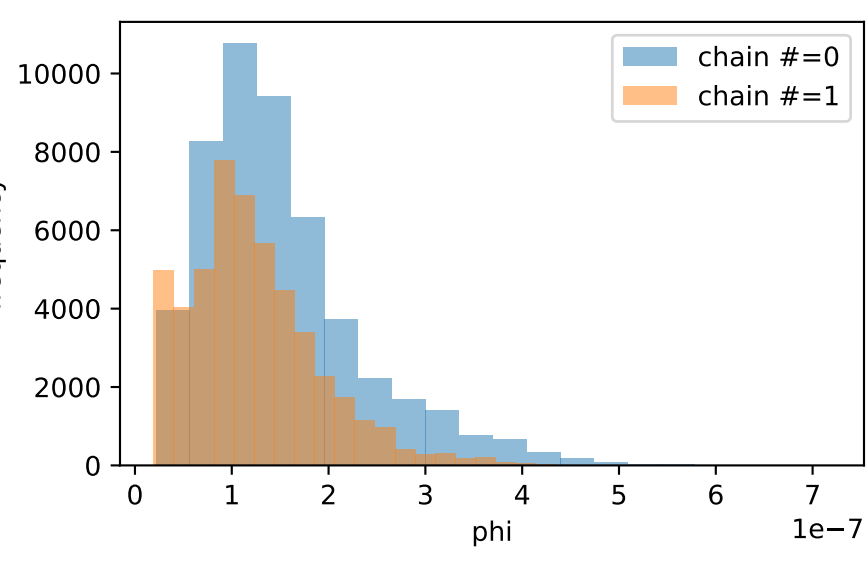


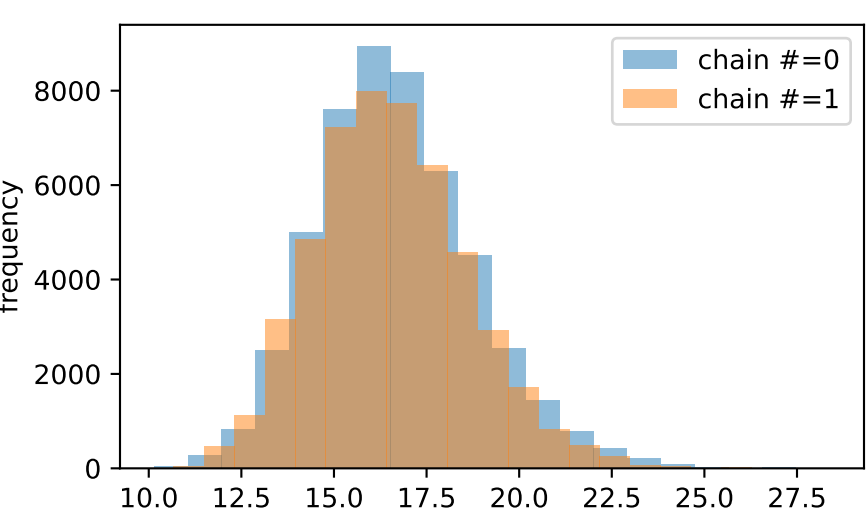

two_i
chain #=0
chain #=1
frequency
20000
15000
10000
5000
0
52
54
56
58
60
62
64
66
68
χ^2


two_i
chain #=0
chain #=1
68
66
64
62
60
58
56
54
52
χ^2
0
10000
20000
30000
40000
50000
iteration

three_i


chain #=0
chain #=1
15000
12500
10000
7500
5000
2500
0
0.0
0.1
0.2
0.3
0.4
0.5
mu


chain #=0
chain #=1
10000
8000
6000
4000
2000
0
0
1
2
3
4
5
6
7
phi
1e−7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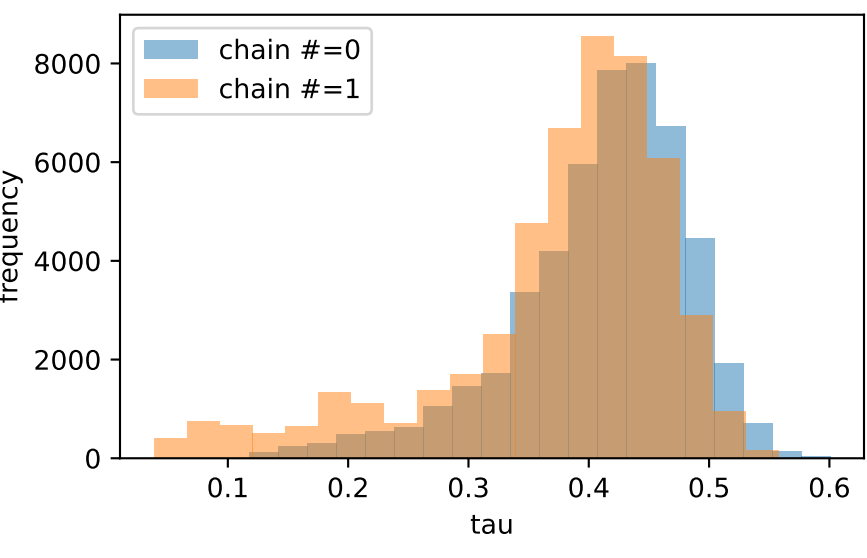
chain #=1
8000
6000
4000
2000
0
frequency
10.0
12.5
15.0
17.5
20.0
22.5
25.0
27.5
beta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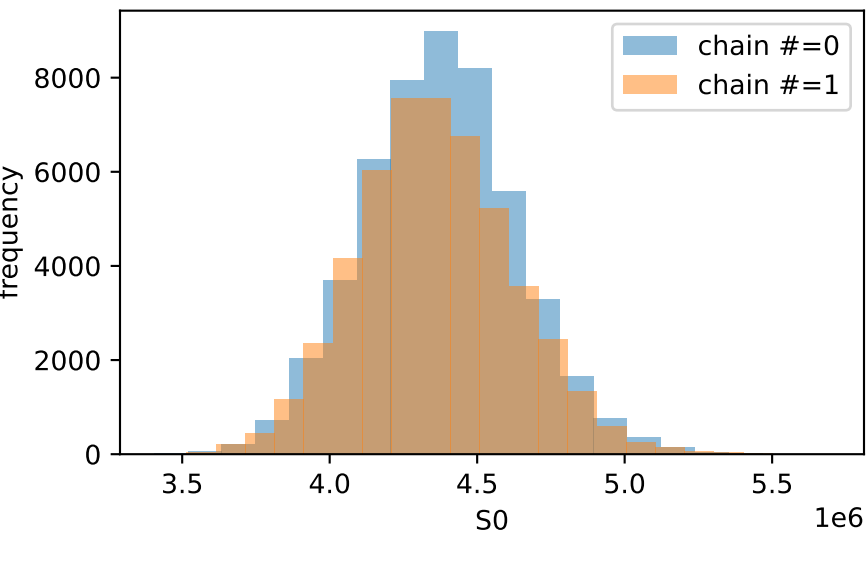
6000
4000
2000
0
frequency
0.1
0.2
0.3
0.4
0.5
0.6
tau


chain #=0
chain #=1
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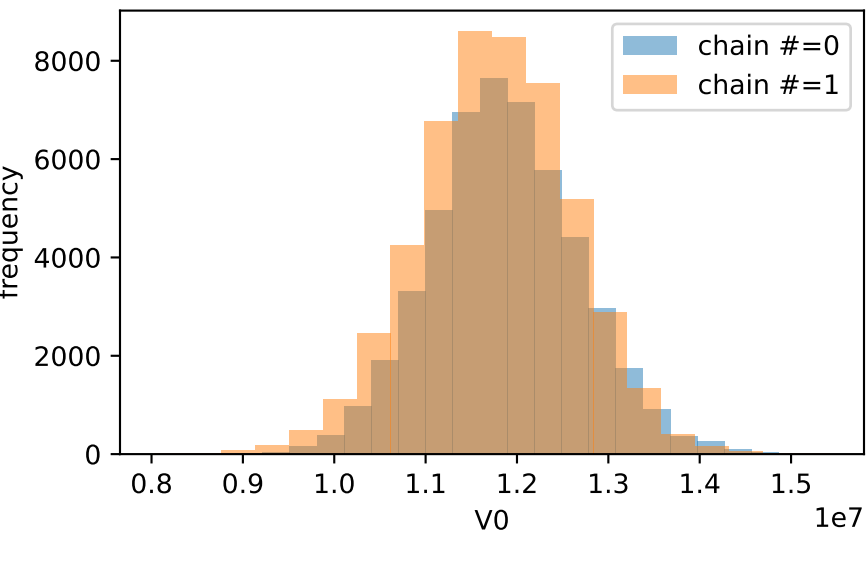
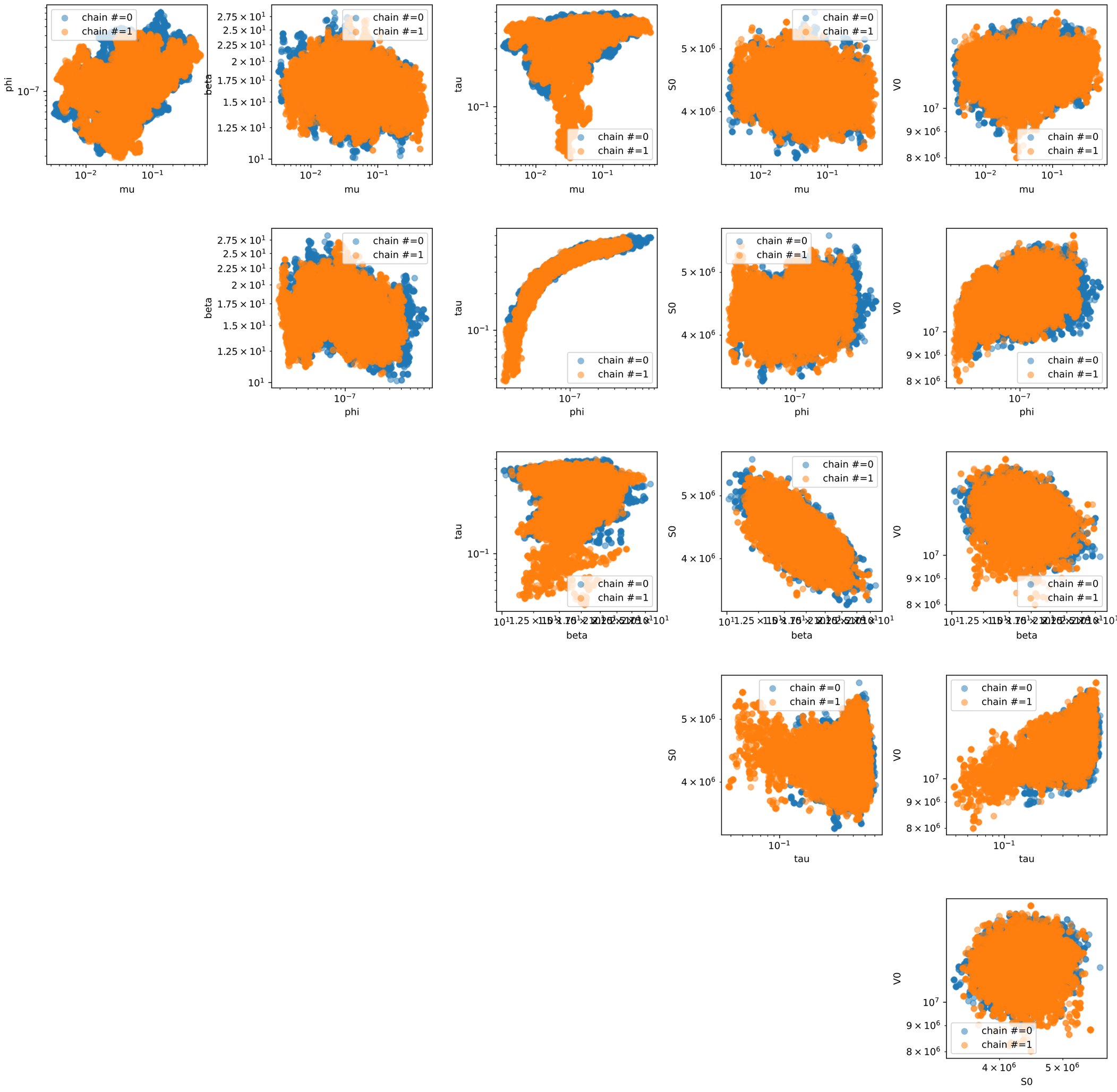
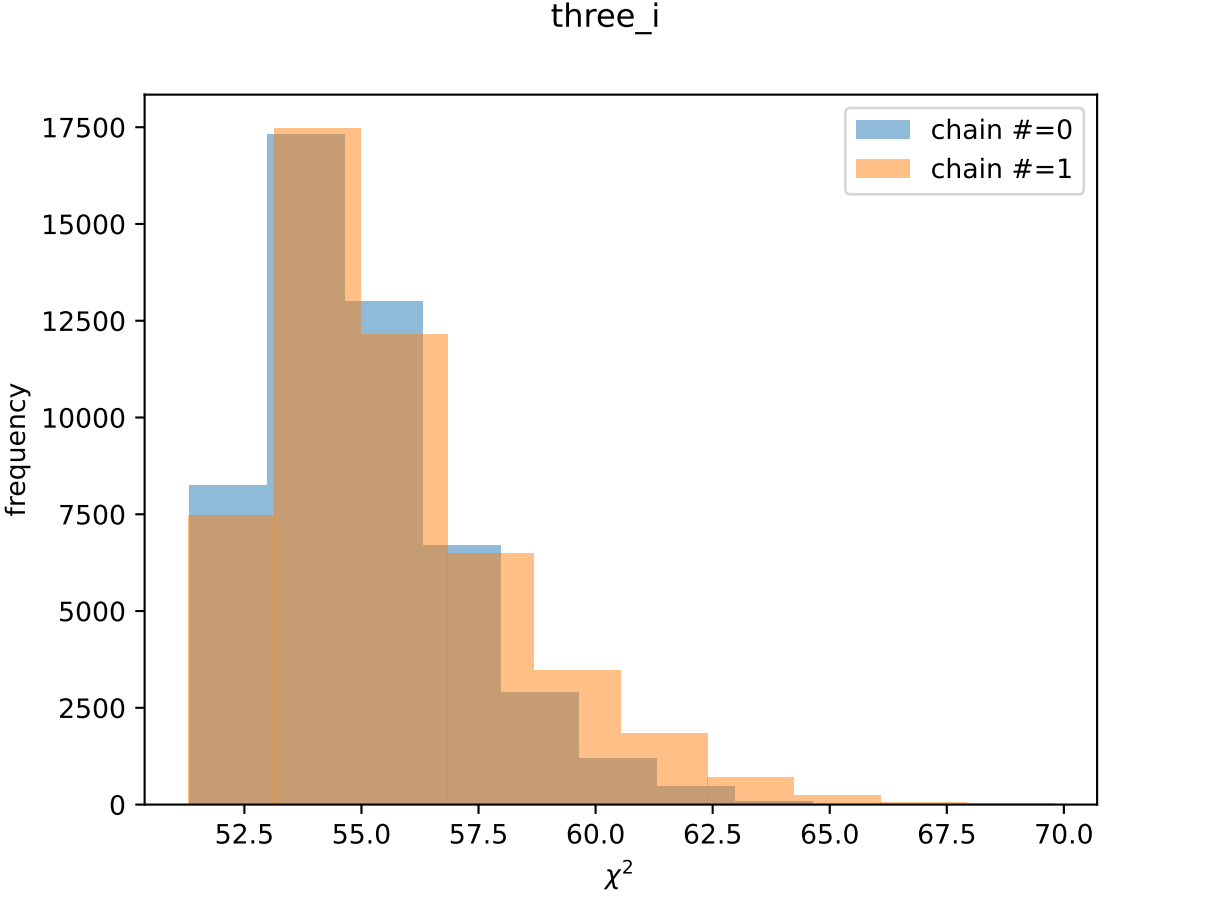
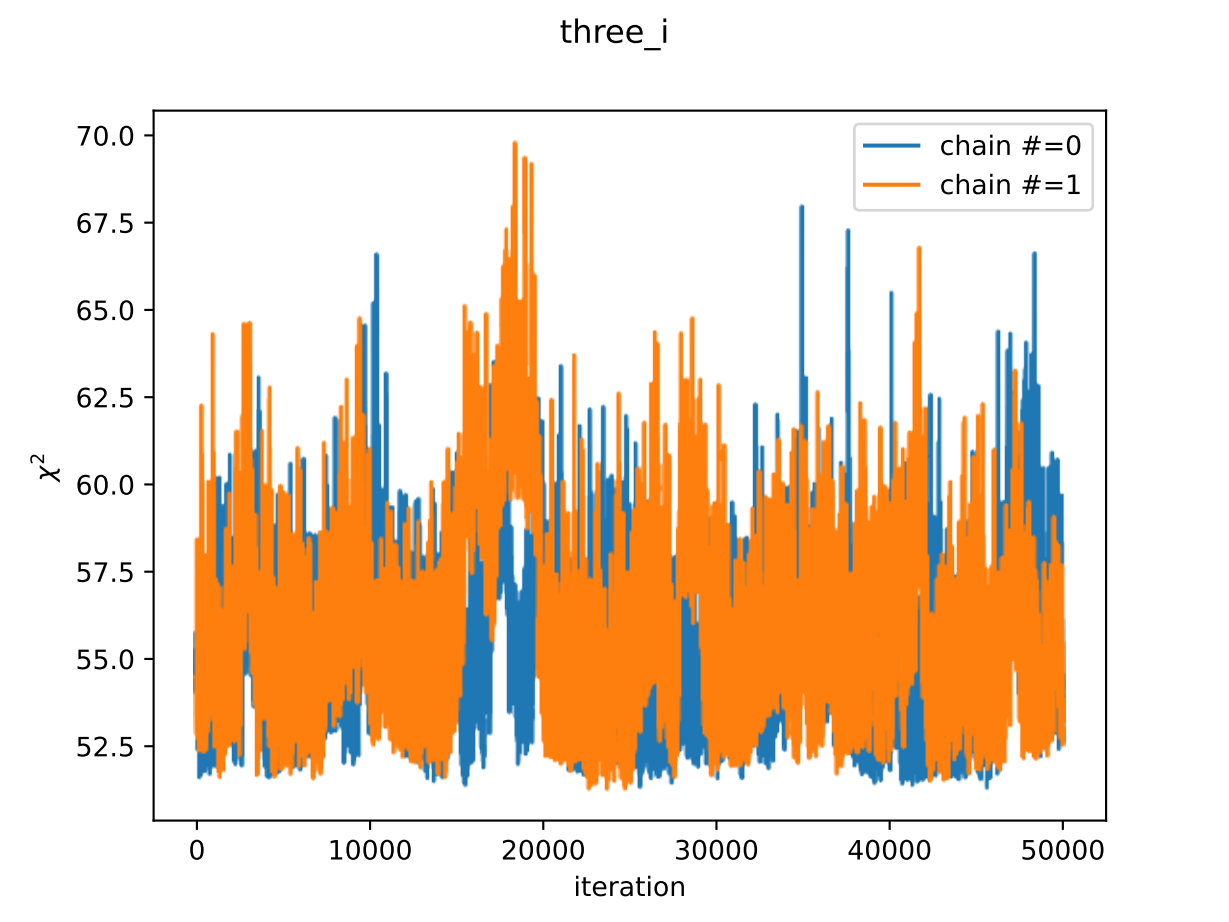
6000
4000
2000
0
frequency
3.5
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
V0
1e7

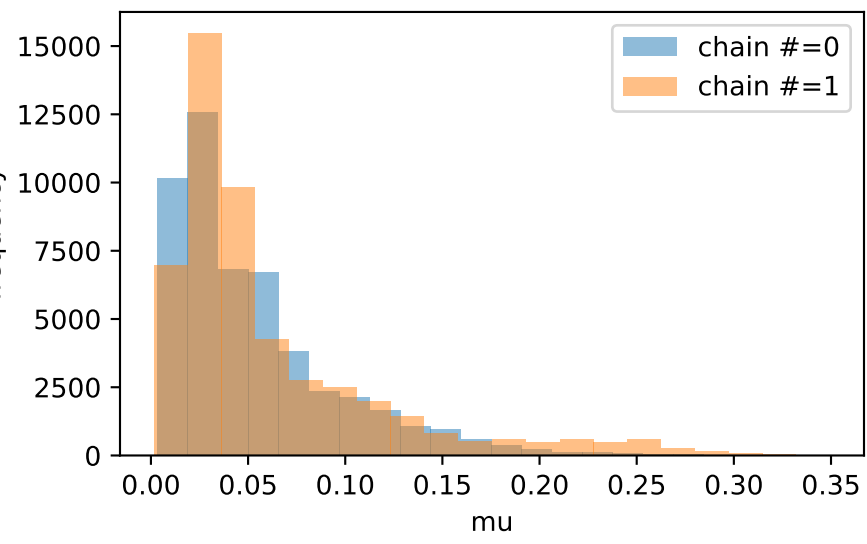
three_i

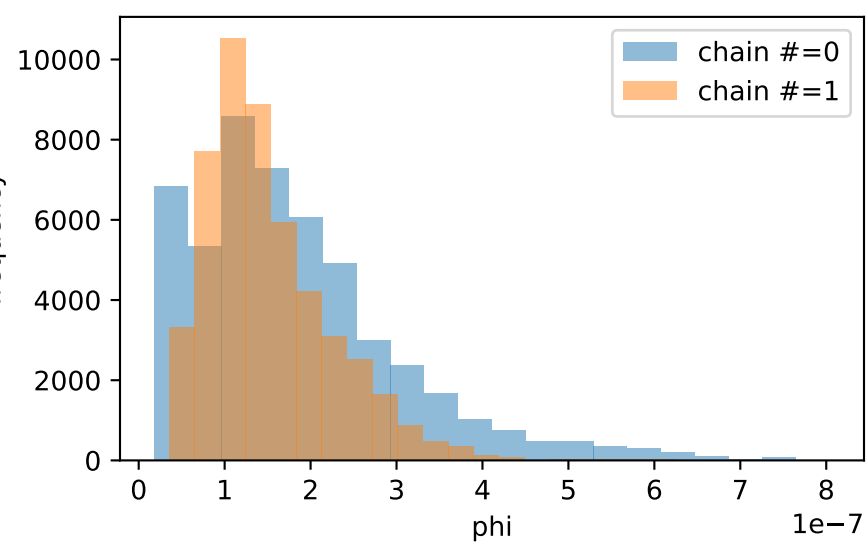

phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
chain #=0
chain #=1


three_i
chain #=0
chain #=1
frequency
17500
15000
12500
10000
7500
5000
2500
0
52.5
55.0
57.5
60.0
62.5
65.0
67.5
70.0
χ^2


three_i
chain #=0
chain #=1
70.0
67.5
65.0
62.5
60.0
57.5
55.0
52.5
χ^2
0
10000
20000
30000
40000
50000
iteration

four_i


chain #=0
chain #=1
15000
12500
10000
7500
5000
2500
0
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
mu


chain #=0
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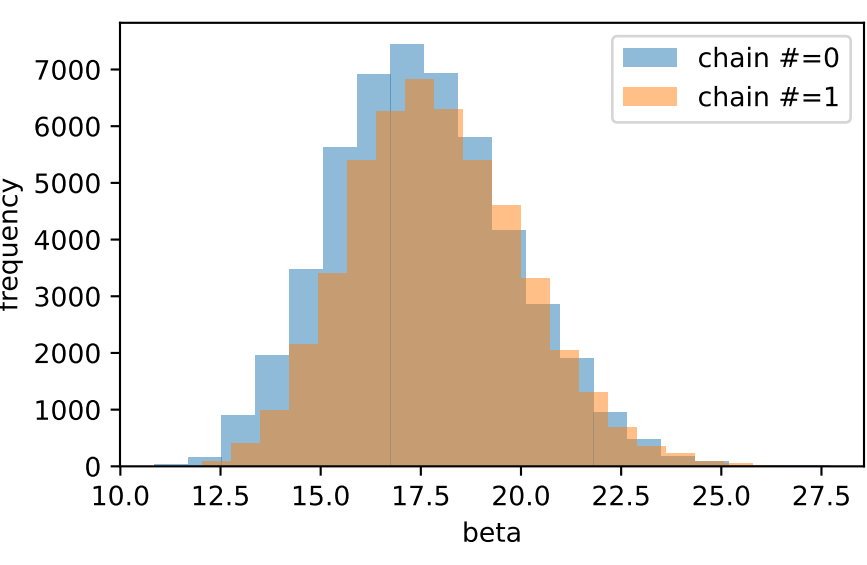
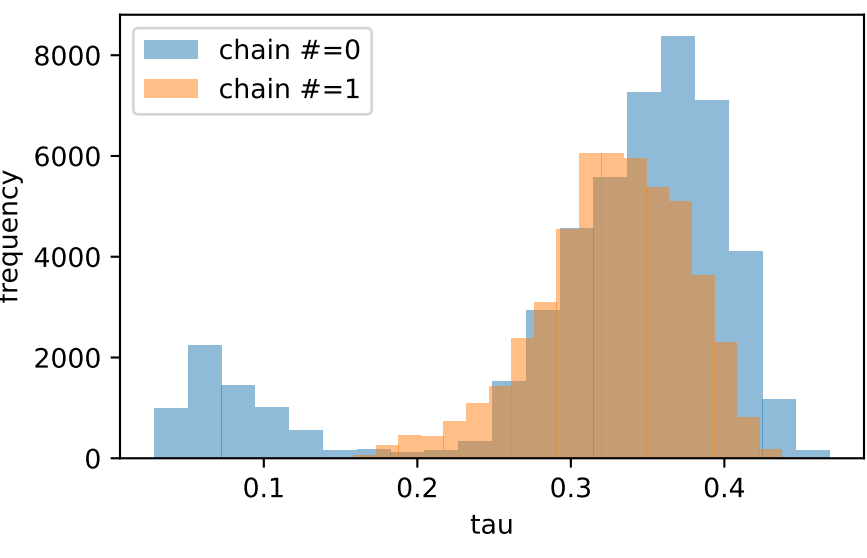
8000
6000
4000
2000
0
0
1
2
3
4
5
6
7
8
phi
1e−7


chain #=0
chain #=1
7000
6000
5000
4000
3000
2000
1000
0
frequency
10.0
12.5
15.0
17.5
20.0
22.5
25.0
27.5
beta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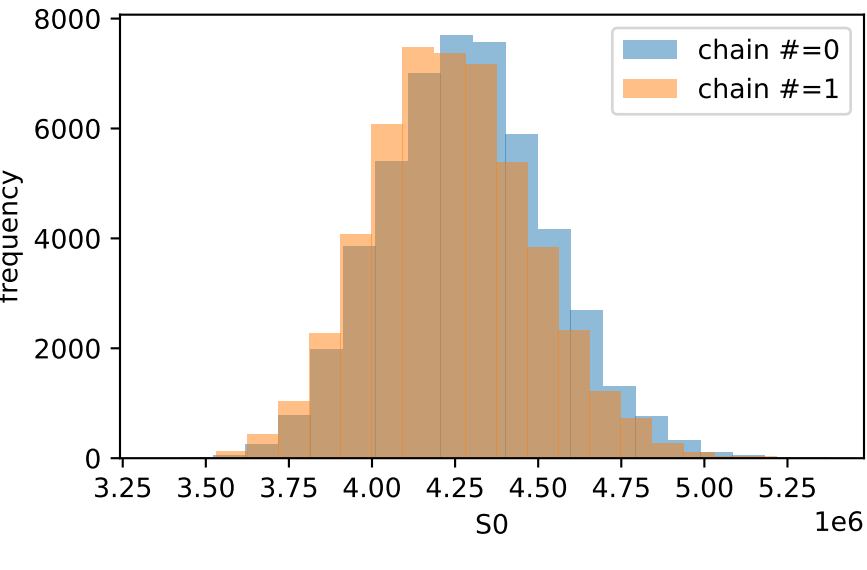
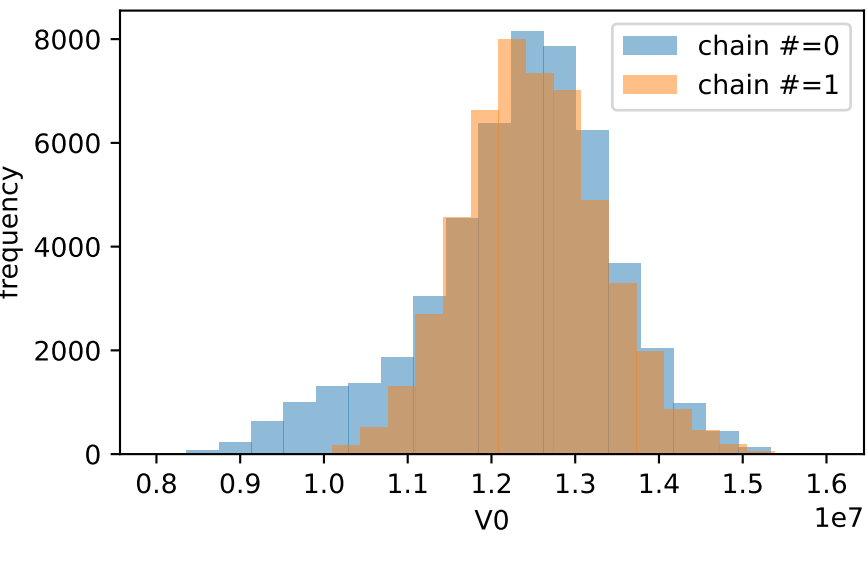
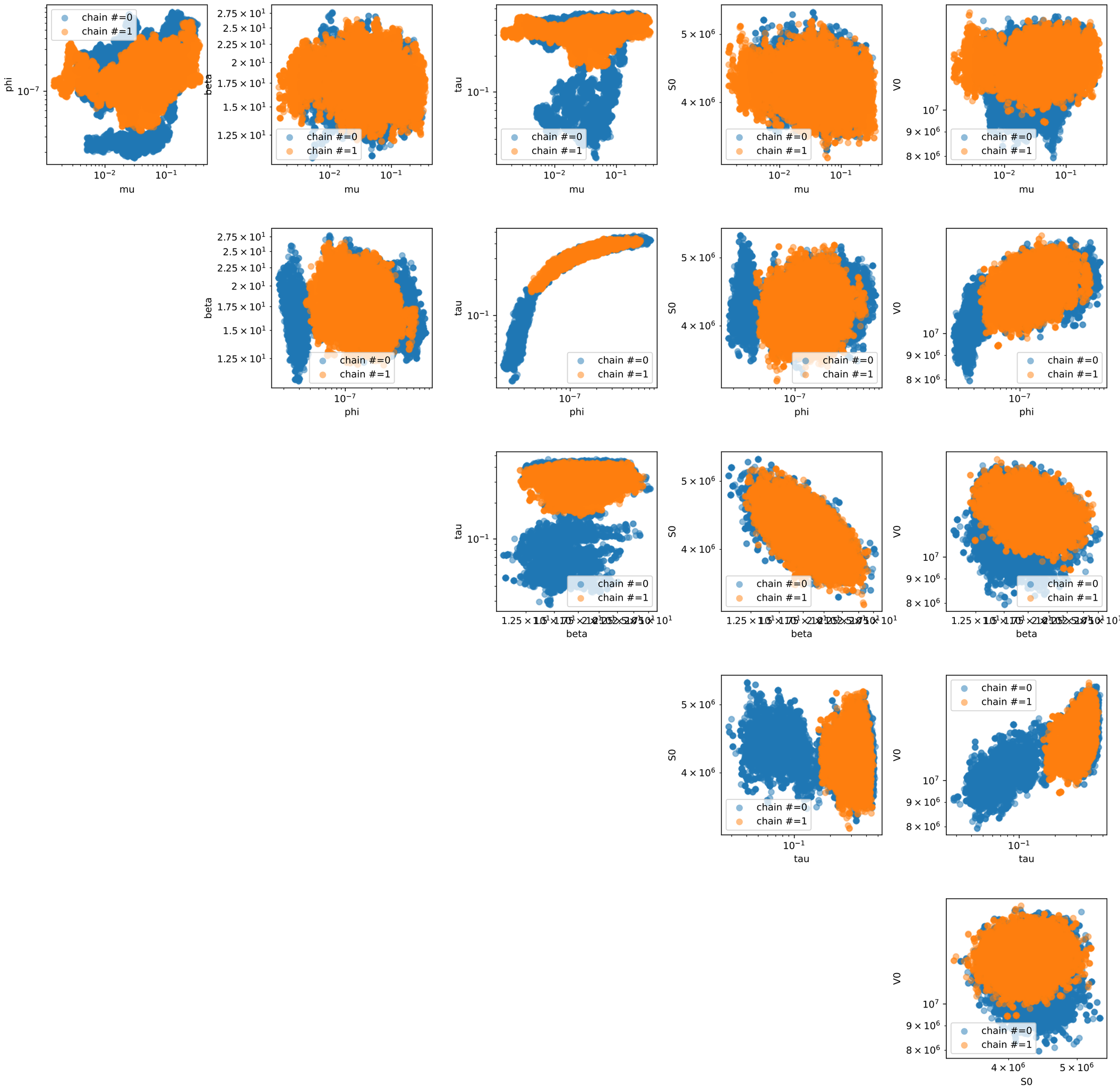
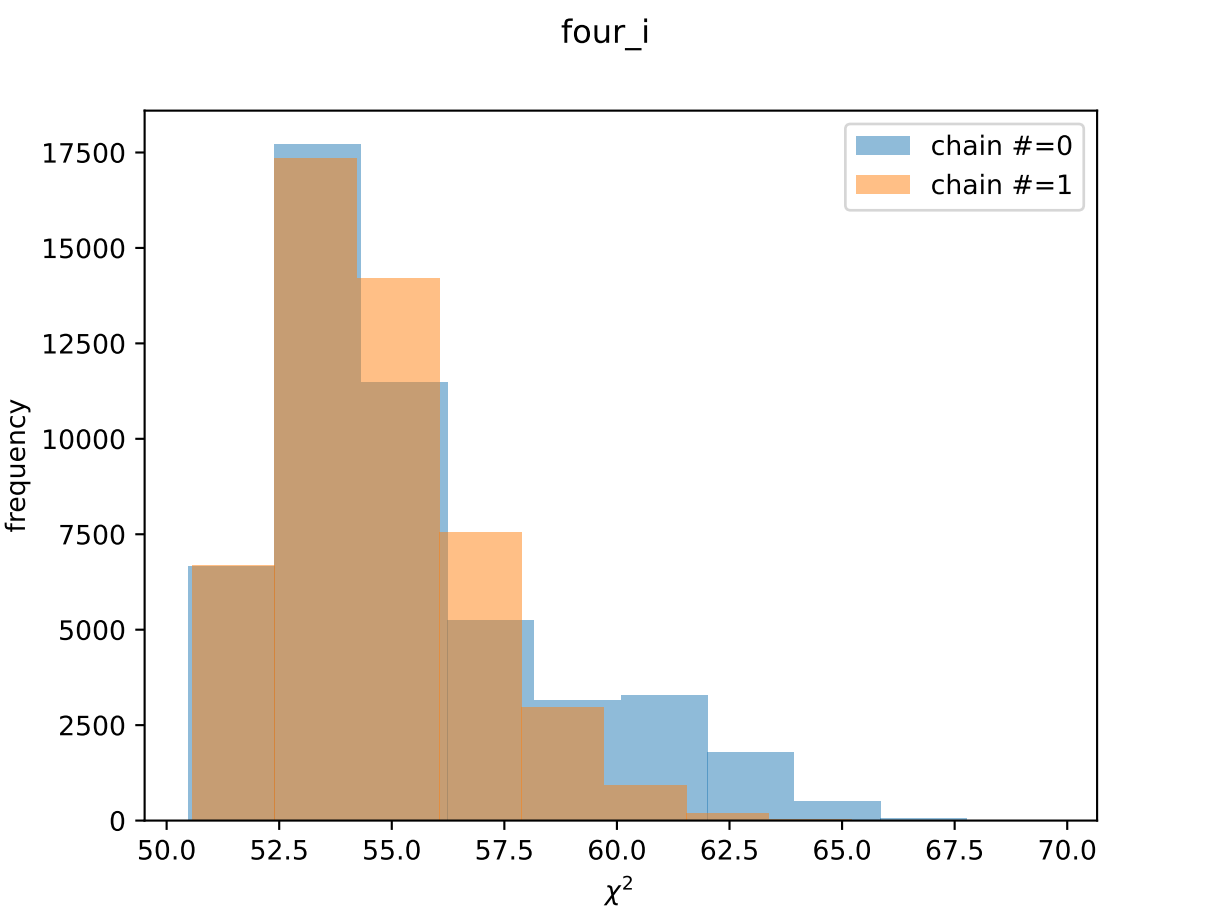
chain #=1
8000
6000
4000
2000
0
frequency
0.1
0.2
0.3
0.4
tau

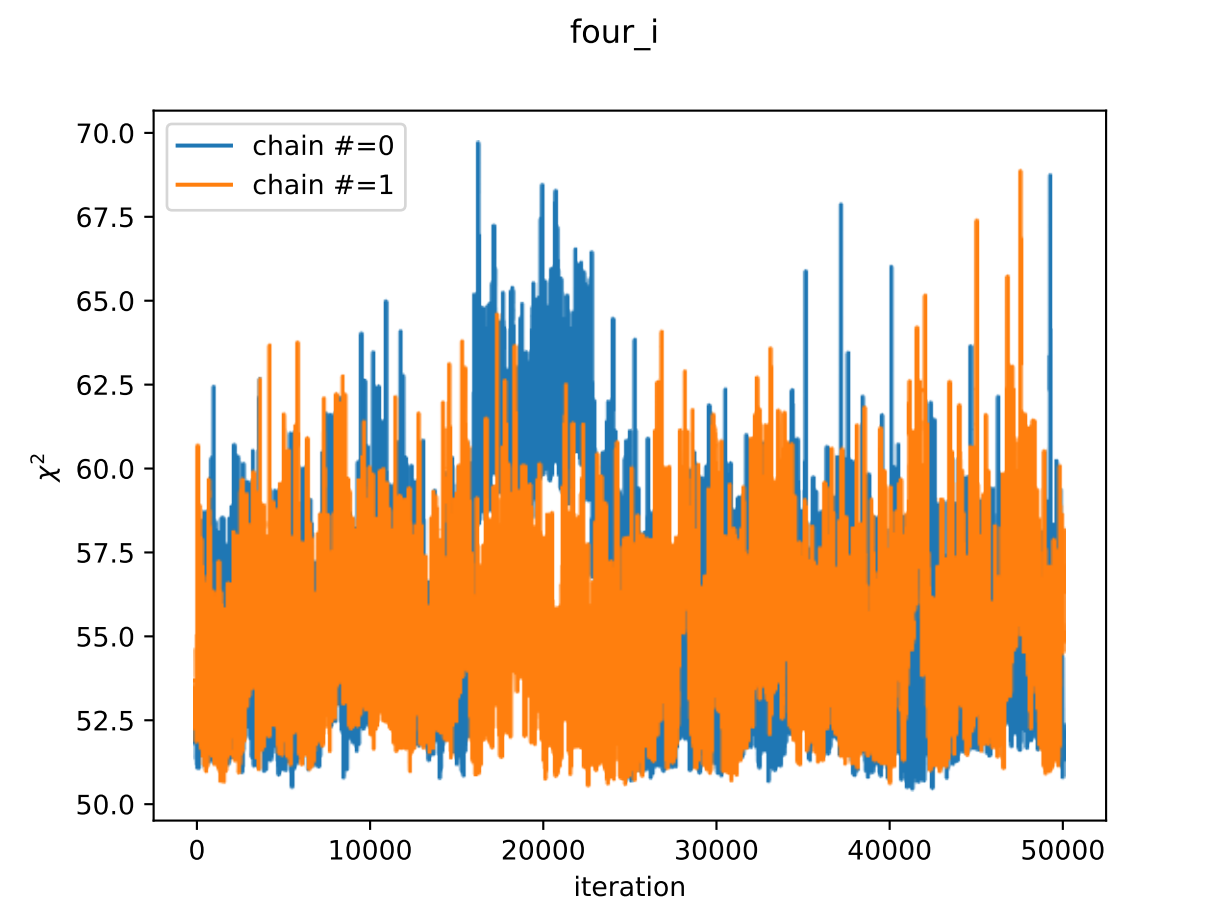

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
3.25
3.50
3.75
4.00
4.25
4.50
4.75
5.00
5.25
S0
1e6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
V0
1e7

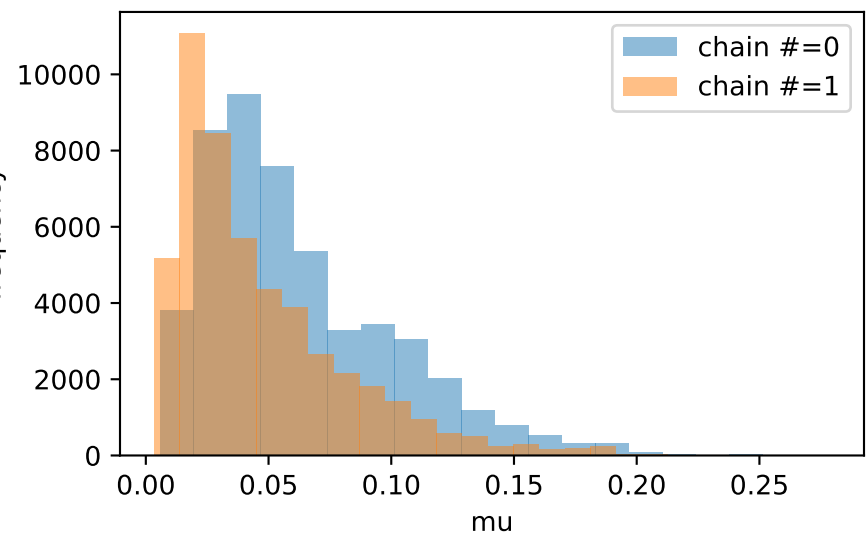
four_i


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


four_i
chain #=0
chain #=1
frequency
17500
15000
12500
10000
7500
5000
2500
0
50.0
52.5
55.0
57.5
60.0
62.5
65.0
67.5
70.0
χ^2


four_i
chain #=0
chain #=1
70.0
67.5
65.0
62.5
60.0
57.5
55.0
52.5
50.0
χ^2
0
10000
20000
30000
40000
50000
iteration

five_i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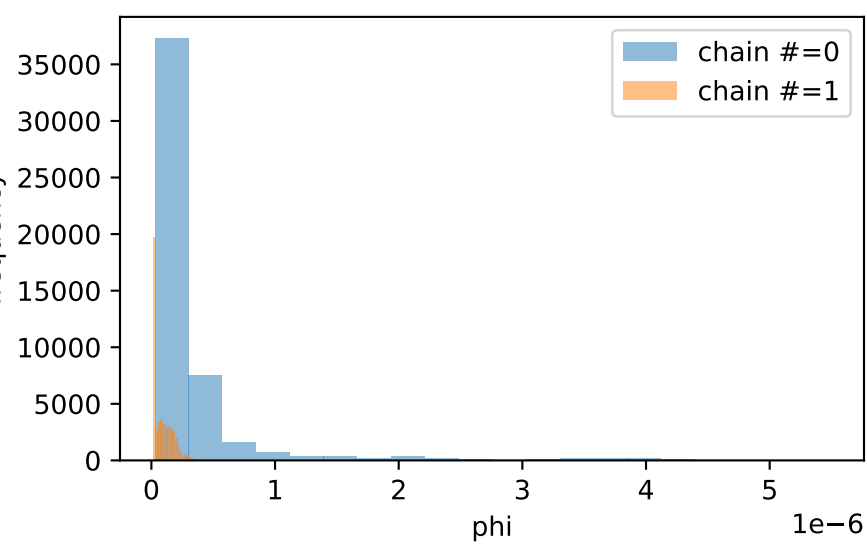
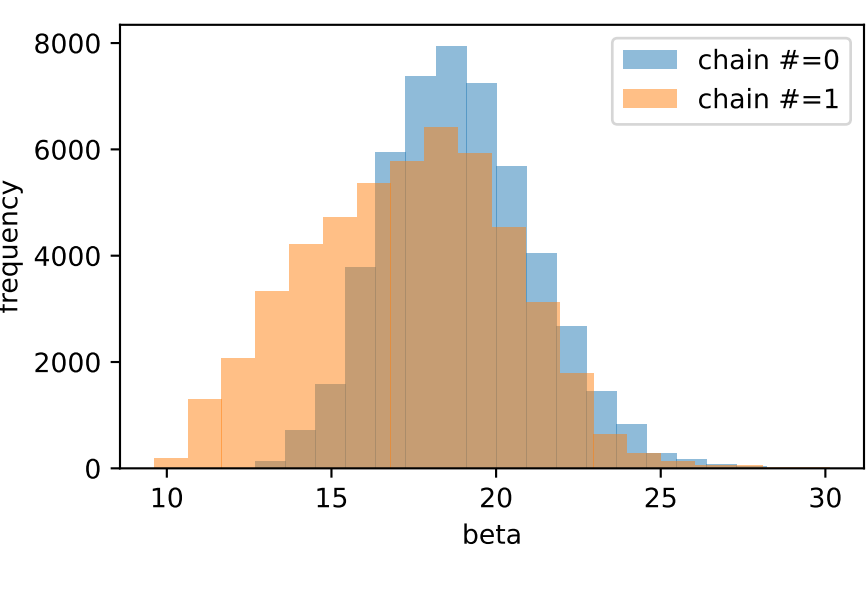
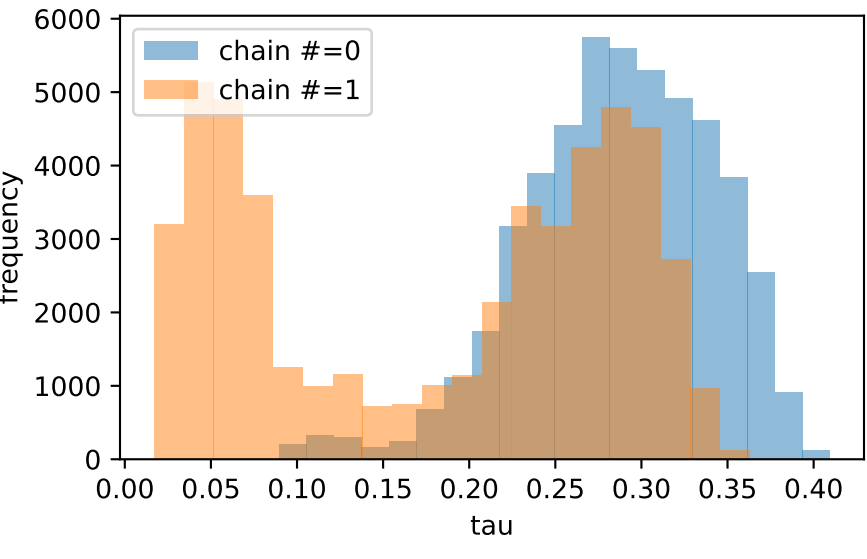
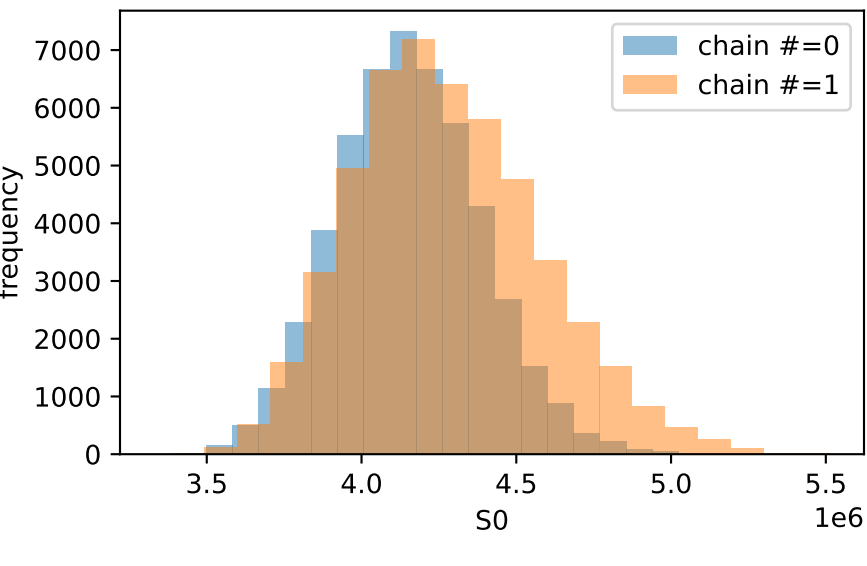
chain #=1
10000
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
mu


chain #=0
chain #=1
35000
30000
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
phi
1e−6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
15
20
25
30
beta


chain #=0
chain #=1
6000
5000
4000
3000
2000
1000
0
frequency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
tau


chain #=0
chain #=1
7000
6000
5000
4000
3000
2000
1000
0
frequency
3.5
4.0
4.5
5.0
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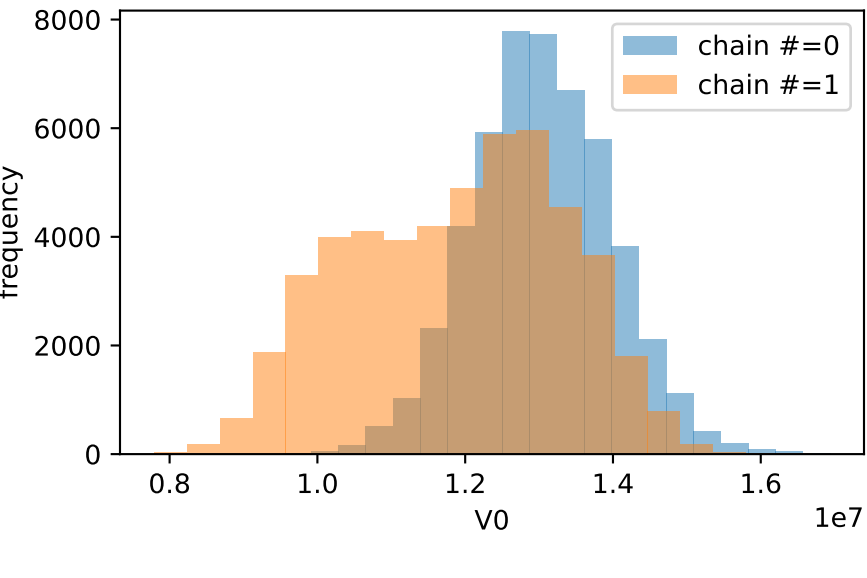
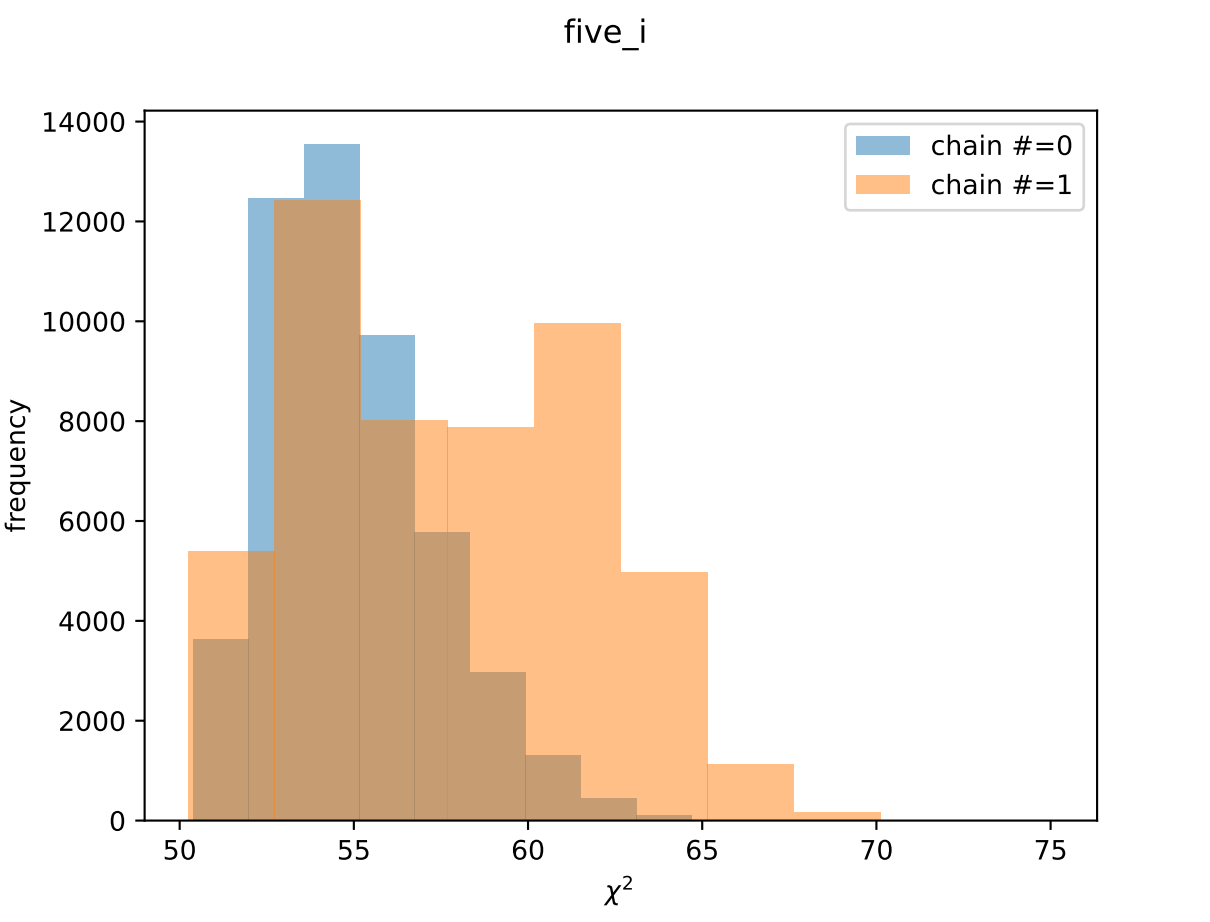
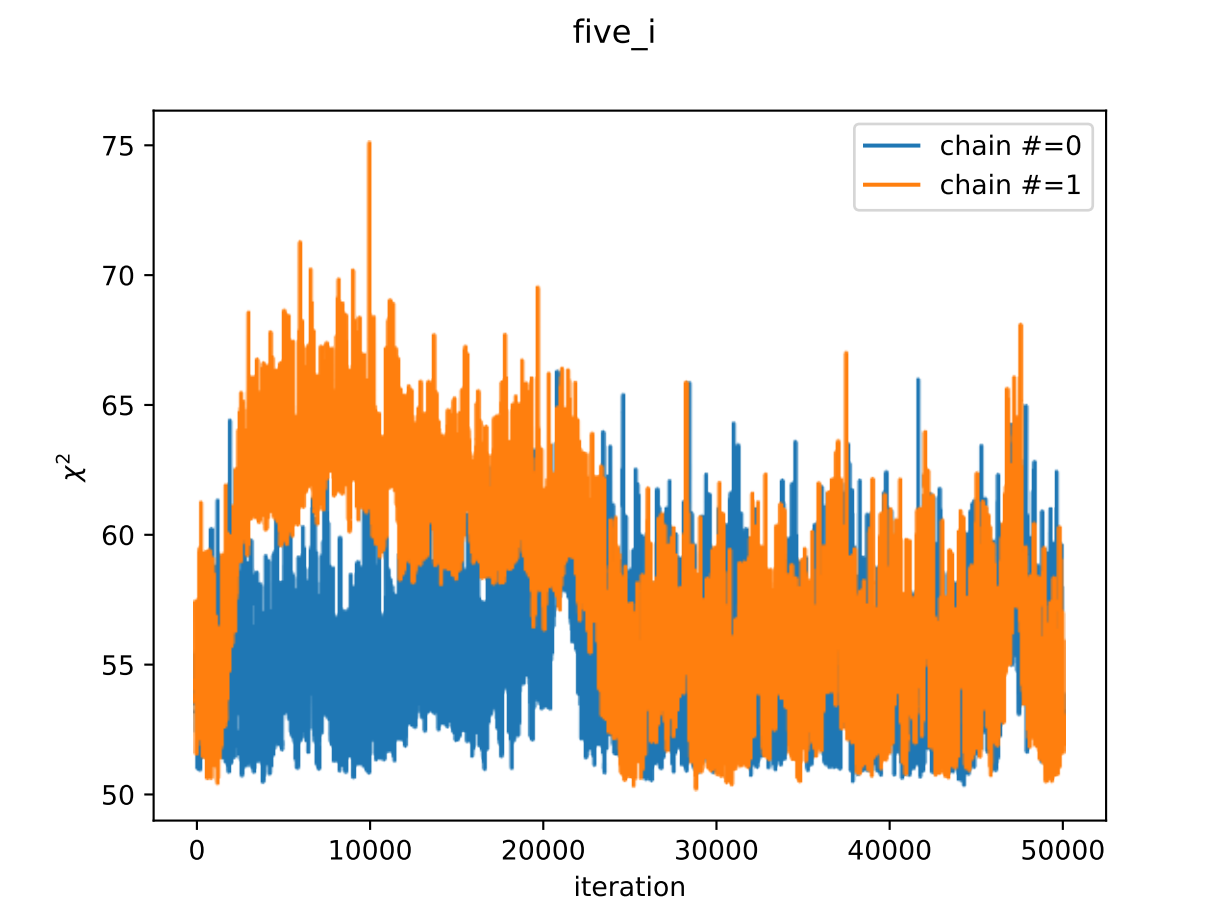
S0
1e6

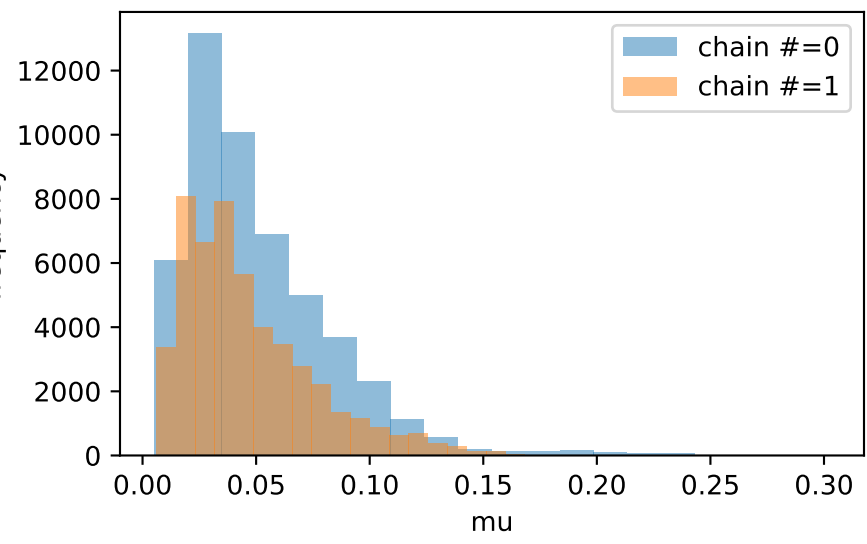

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.8
1.0
1.2
1.4
1.6
V0
1e7

five_i


five_i
chain #=0
chain #=1
frequency
14000
12000
10000
8000
6000
4000
2000
0
50
55
60
65
70
75
χ^2


five_i
chain #=0
chain #=1
75
70
65
60
55
50
χ^2
0
10000
20000
30000
40000
50000
iteration

six_i


chain #=0
chain #=1
12000
10000
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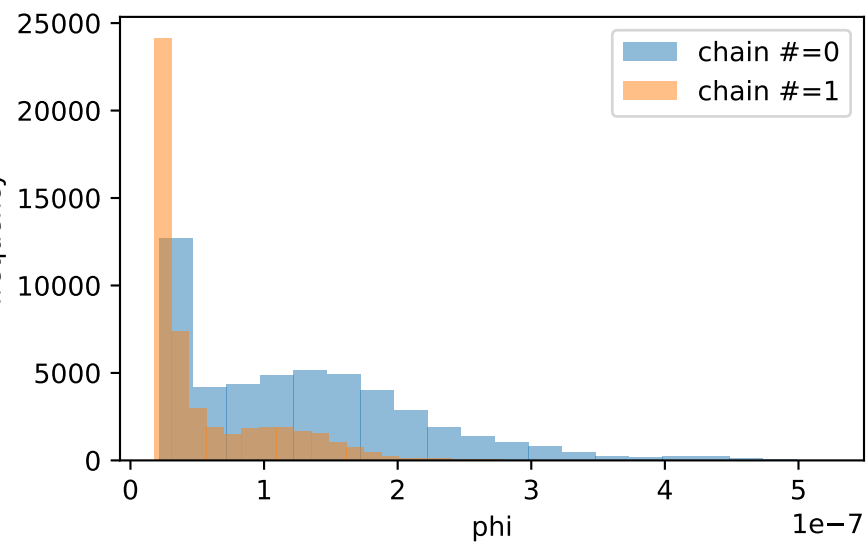
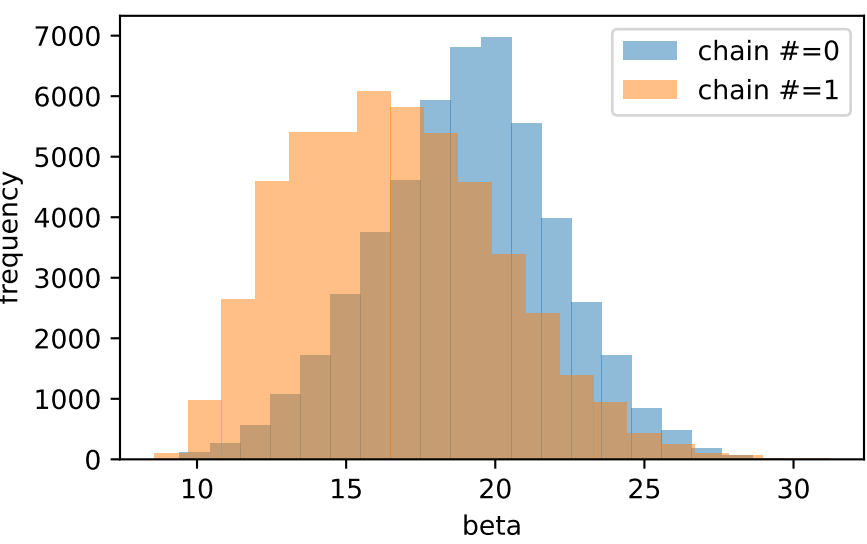
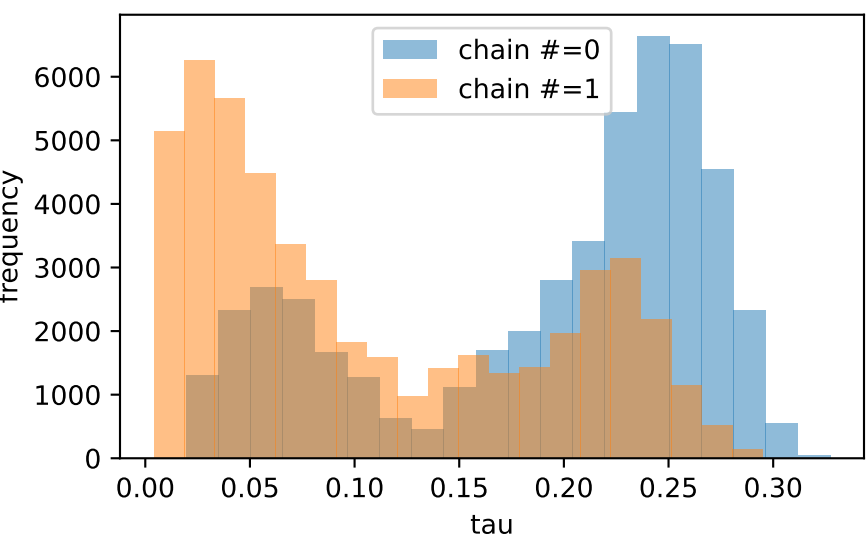
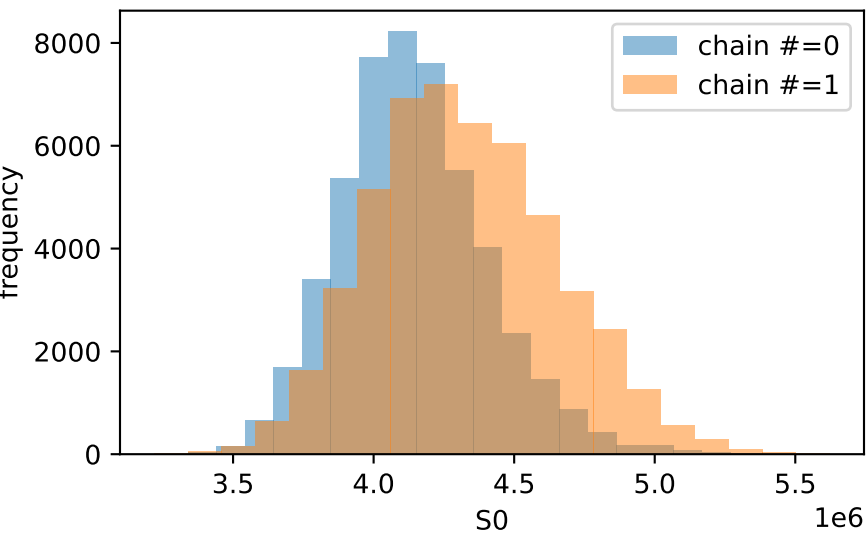
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
0.30
mu


chain #=0
chain #=1
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
phi
1e−7


chain #=0
chain #=1
7000
6000
5000
4000
3000
2000
1000
0
frequency
10
15
20
25
30
beta


chain #=0
chain #=1
6000
5000
4000
3000
2000
1000
0
frequency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
tau


chain #=0
chain #=1
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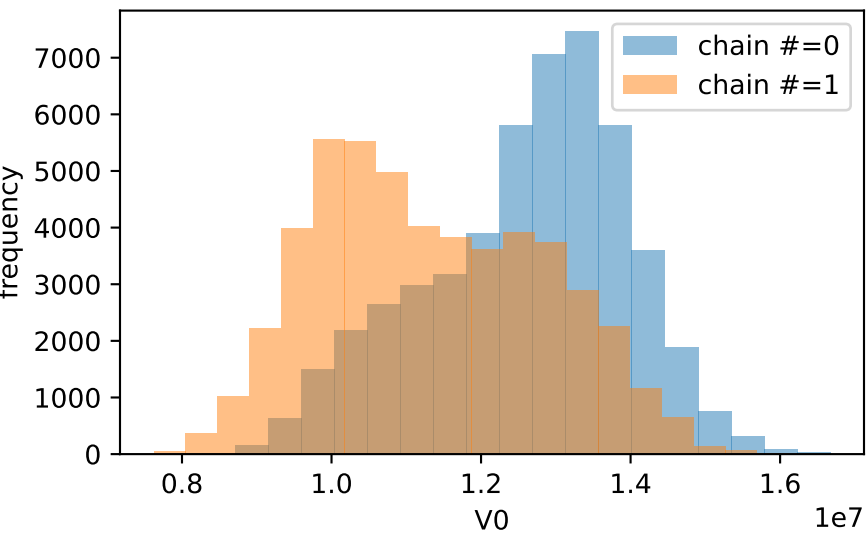
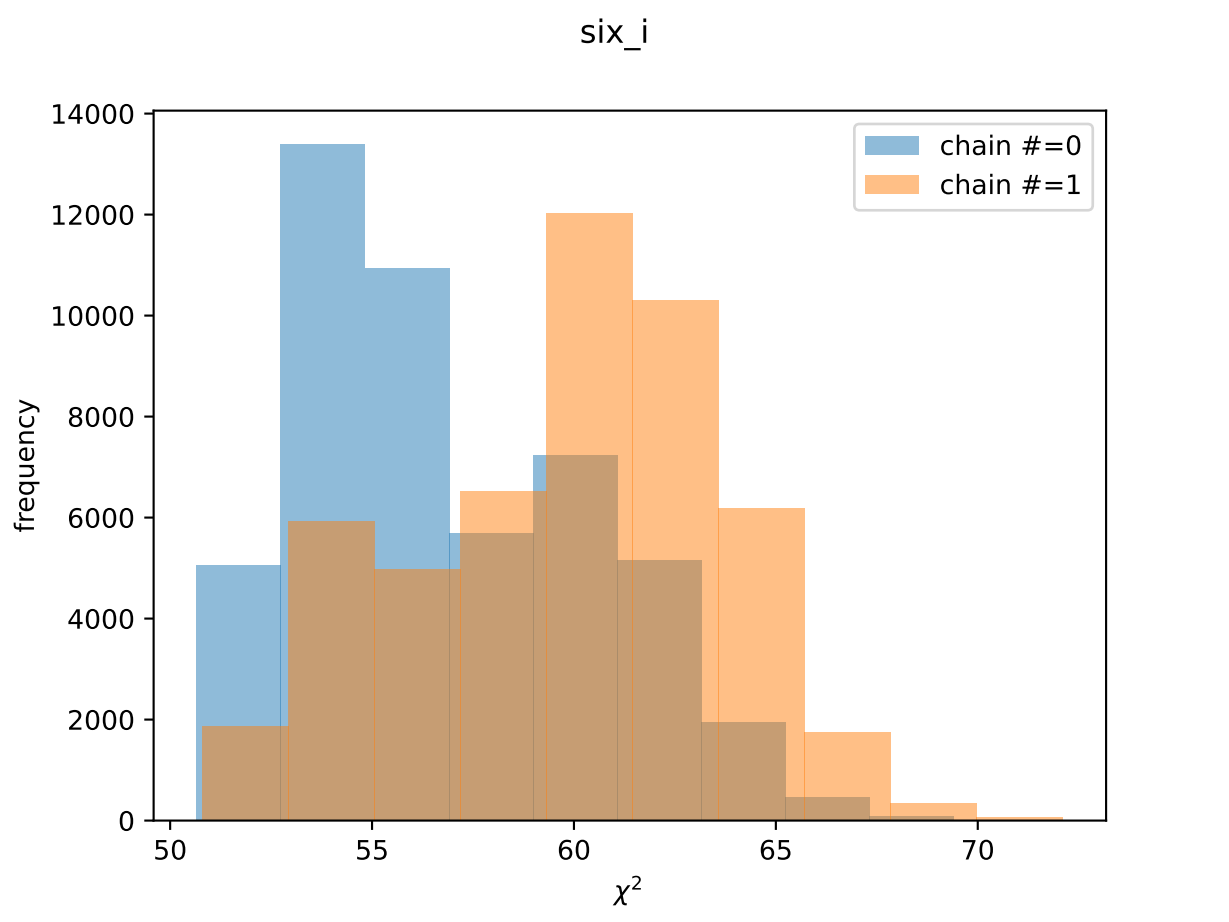
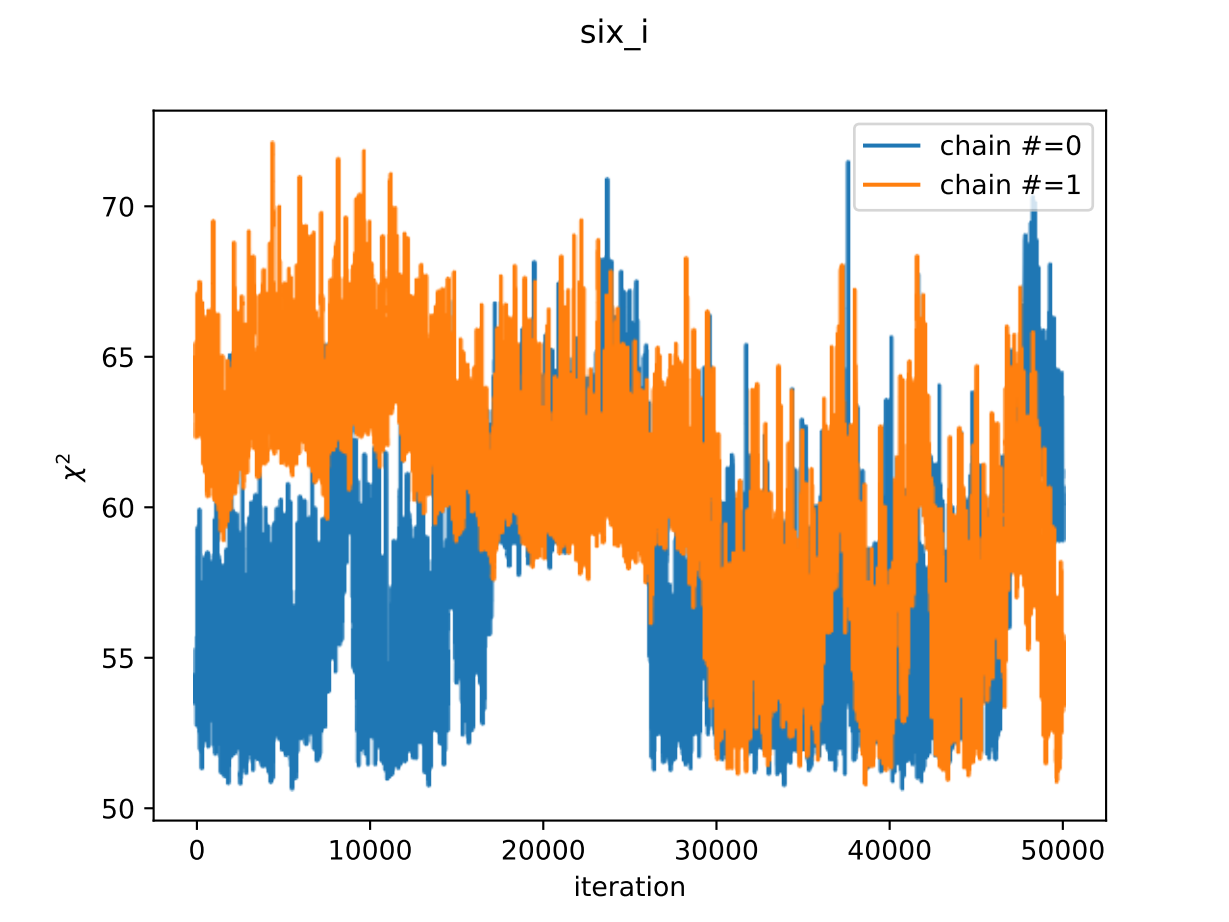
6000
4000
2000
0
frequency
3.5
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
chain #=1
7000
6000
5000
4000
3000
2000
1000
0
frequency
0.8
1.0
1.2
1.4
1.6
V0
1e7

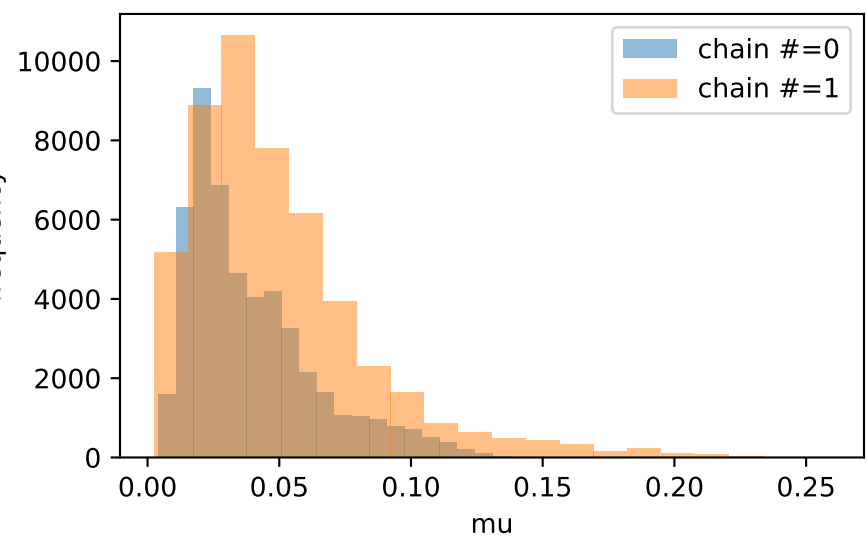
six_i

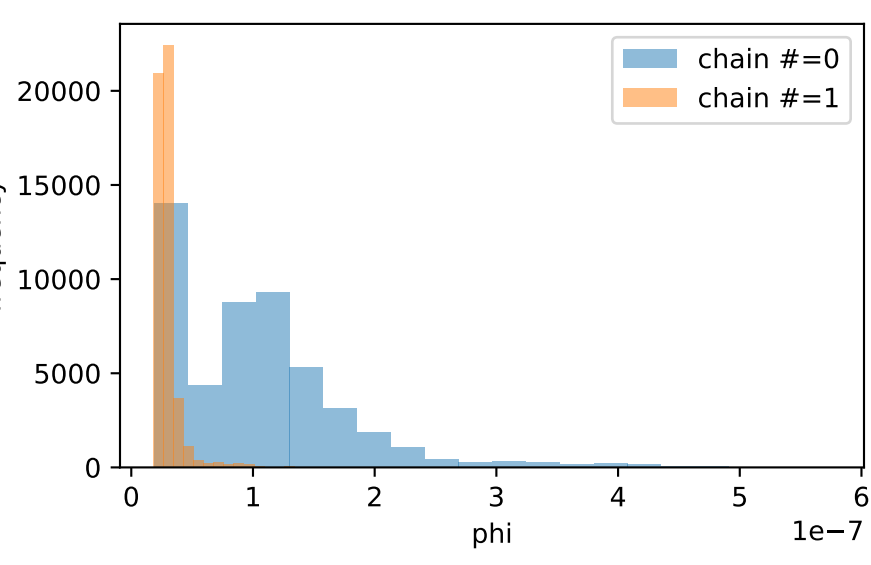
phi
mu
beta
mu
tau
mu
S0
mu
V0
mu
beta
phi
tau
phi
S0
phi
V0
phi
tau
phi
S0
phi
V0
phi
beta
beta
beta
S0
tau
V0
tau
V0
S0
chain #=0
chain #=1

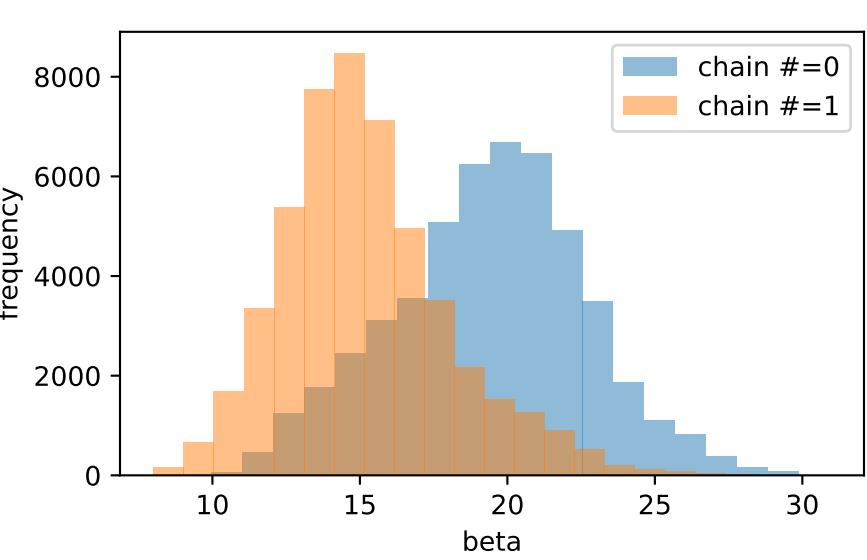

six_i
chain #=0
chain #=1
frequency
14000
12000
10000
8000
6000
4000
2000
0
50
55
60
65
70
χ^2

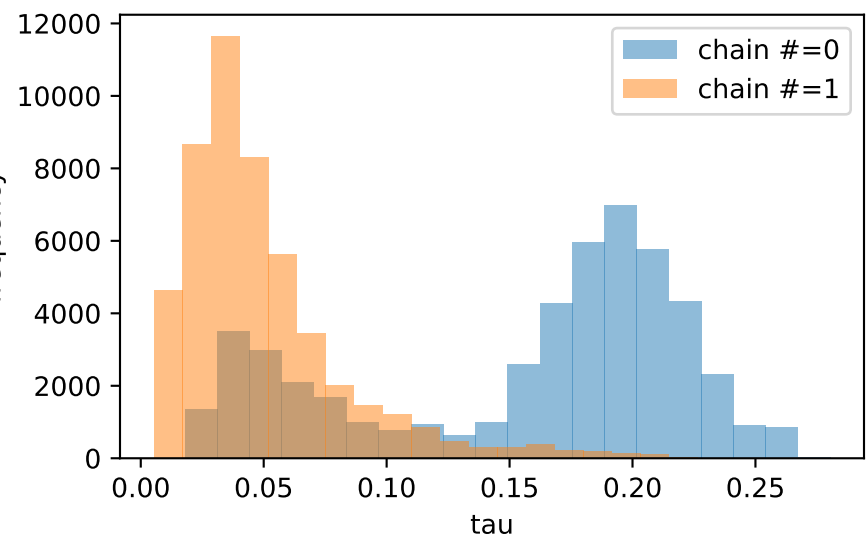

six_i
chain #=0
chain #=1
70
65
60
55
50
χ^2
0
10000
20000
30000
40000
50000
iteration

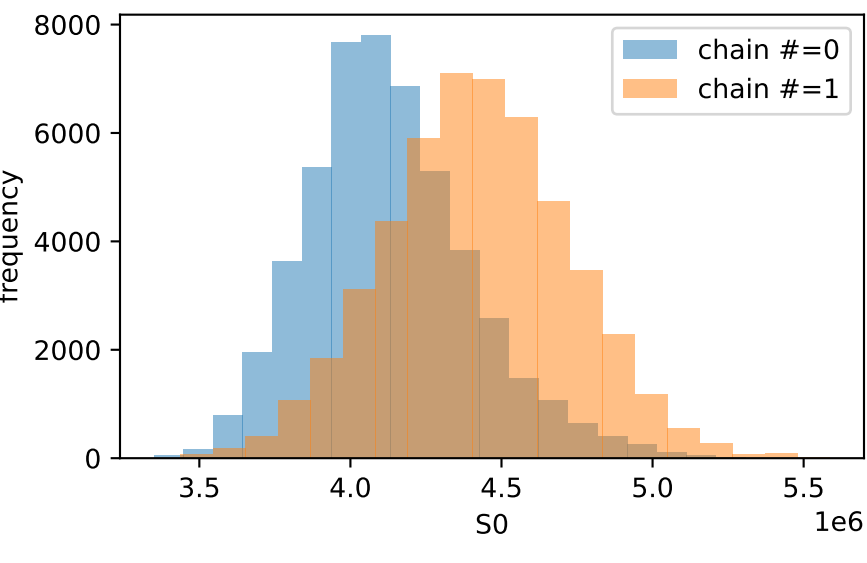
seven_i

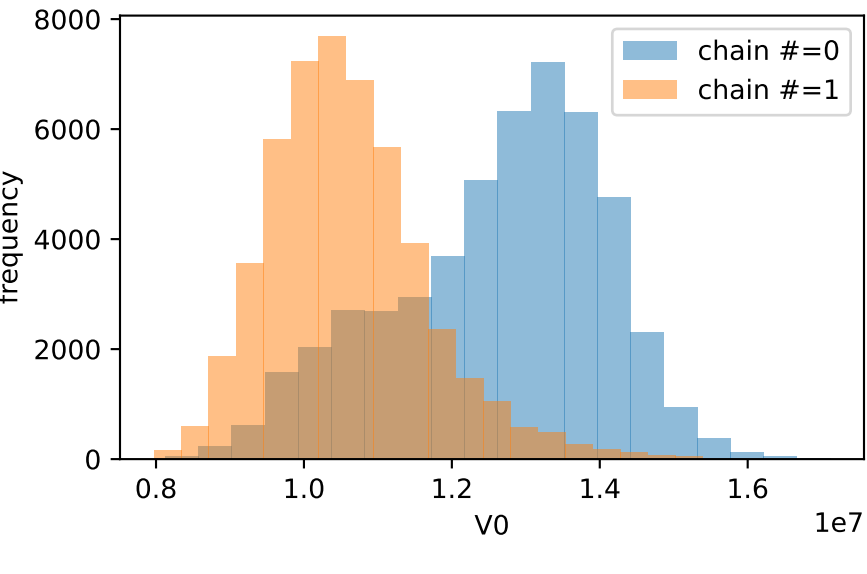

chain #=0
chain #=1
10000
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
mu


chain #=0
chain #=1
20000
15000
10000
5000
0
0
1
2
3
4
5
6
phi
1e−7

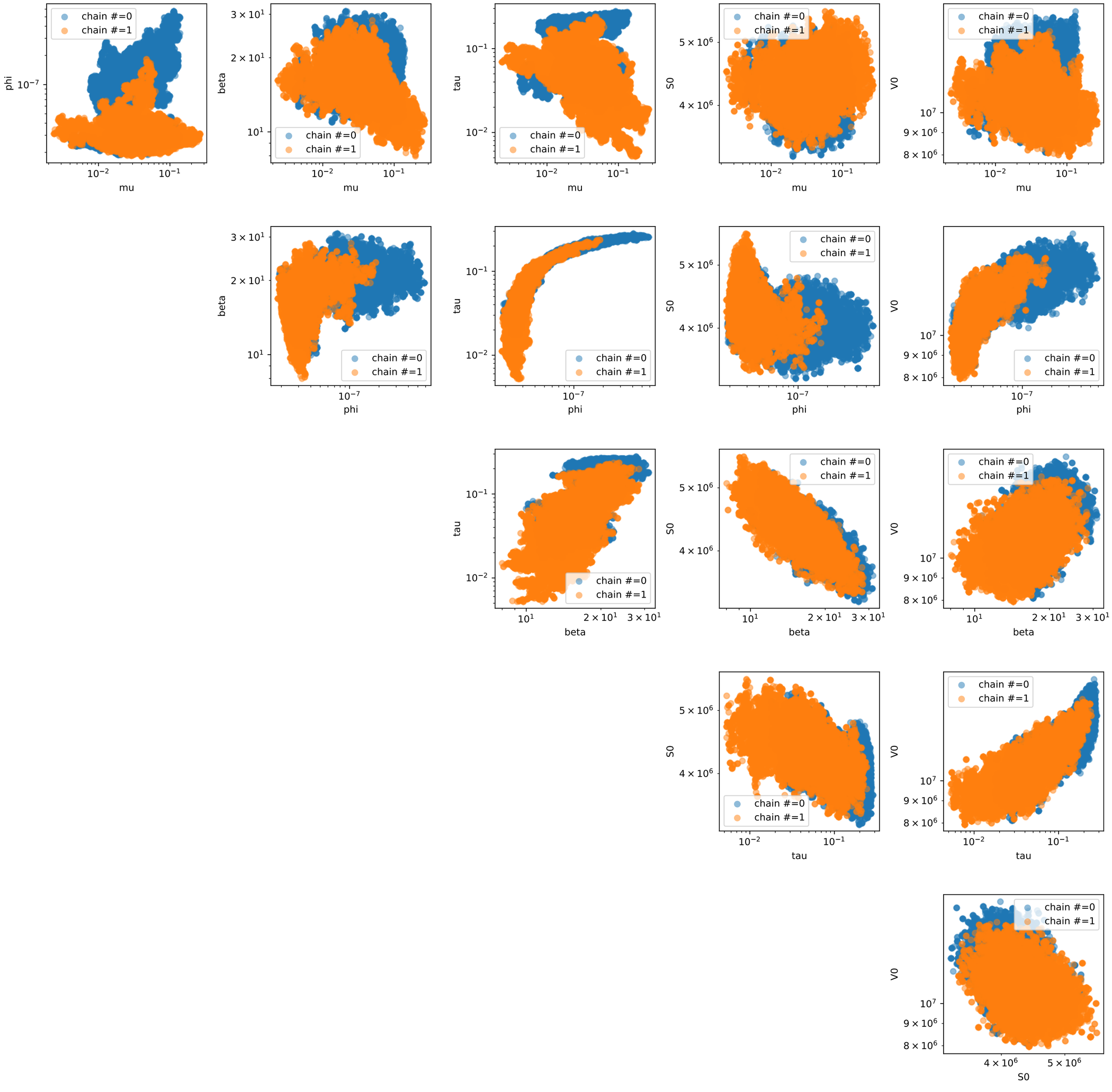

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
15
20
25
30
beta

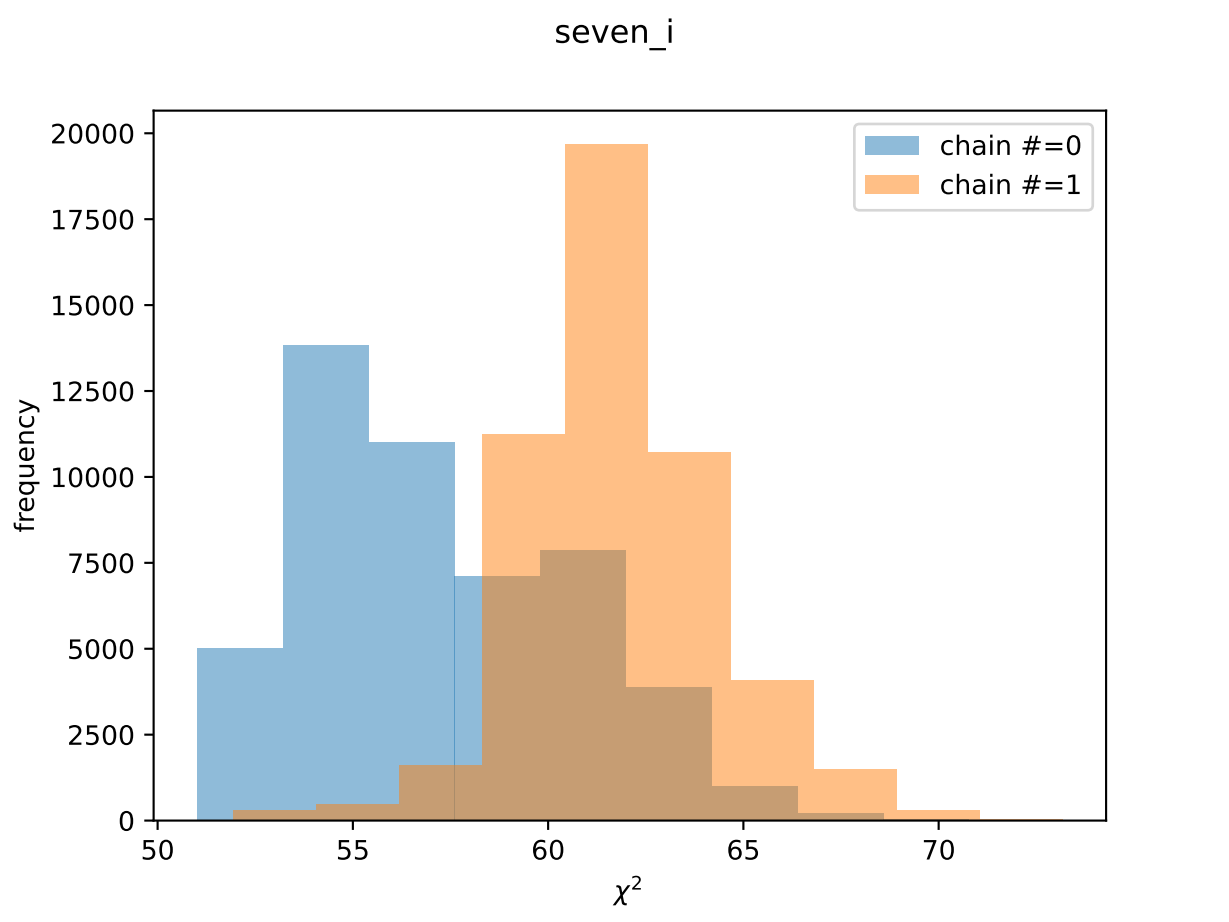

chain #=0
chain #=1
12000
10000
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
tau


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
3.5
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.8
1.0
1.2
1.4
1.6
V0
1e7

seven_i




seven_i
chain #=0
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frequency
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17500
15000
12500
10000
7500
5000
2500
0
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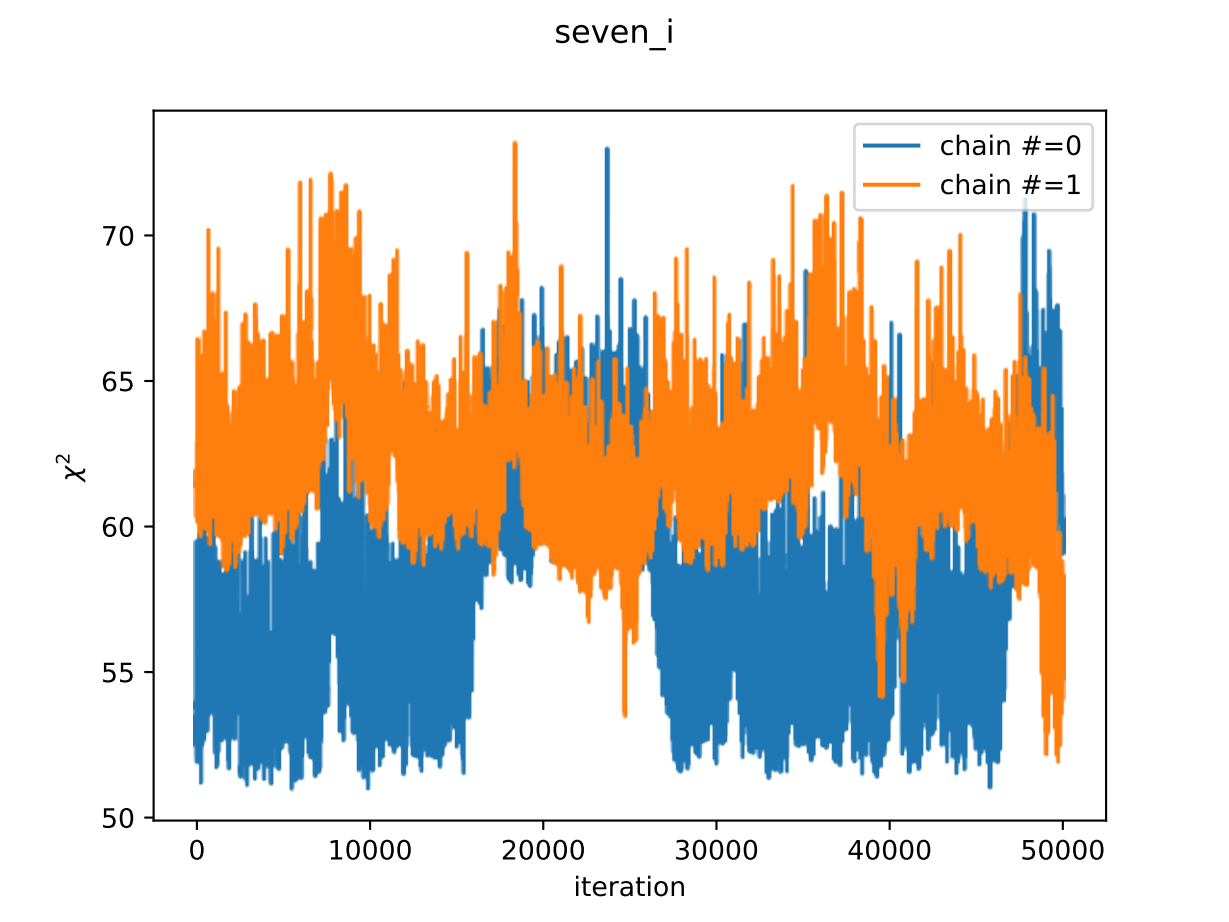
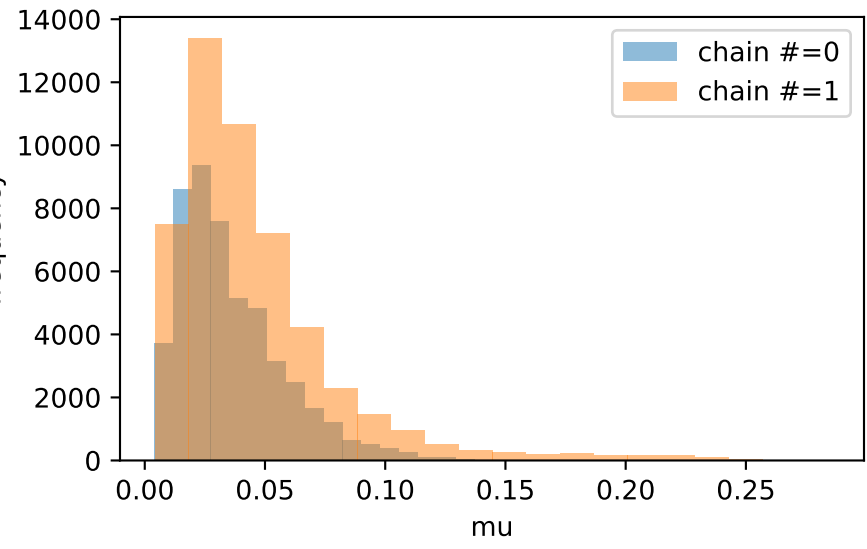
55
60
65
70
χ^2


seven_i
chain #=0
chain #=1
70
65
60
55
50
χ^2
0
10000
20000
30000
40000
50000
iteration

eight_i


chain #=0
chain #=1
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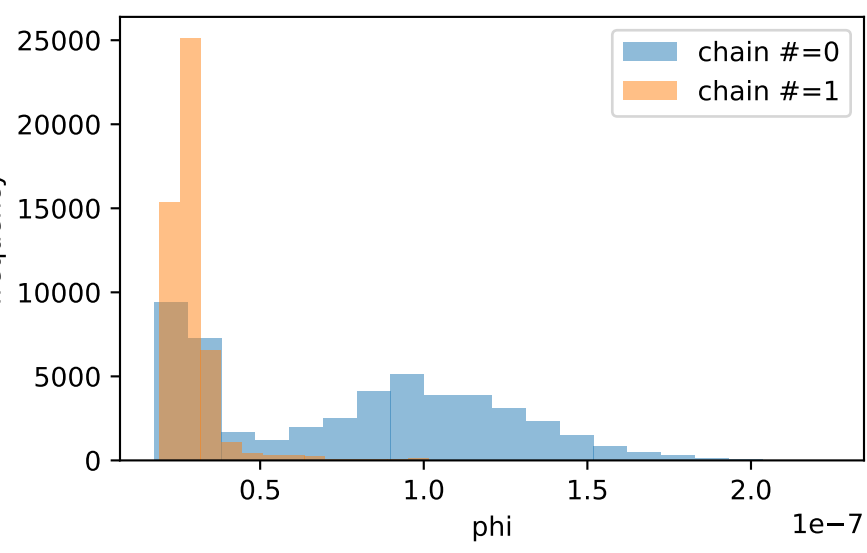
12000
10000
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
mu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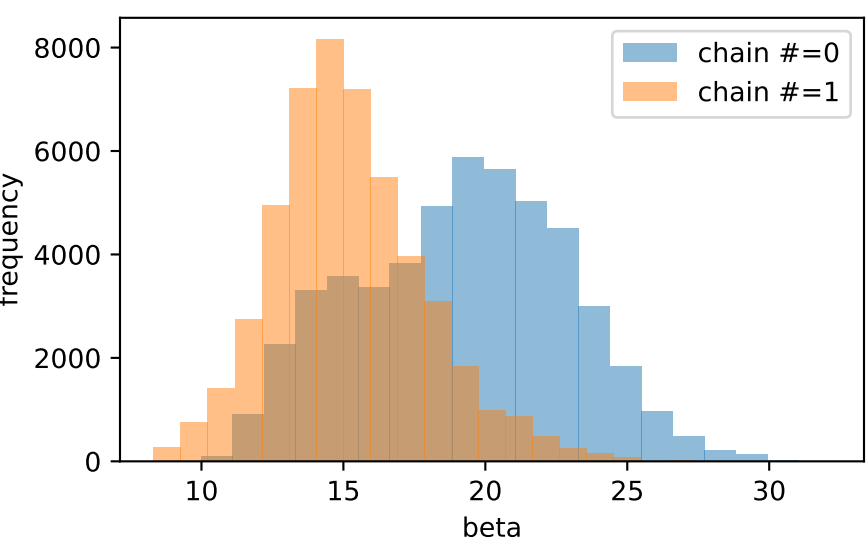
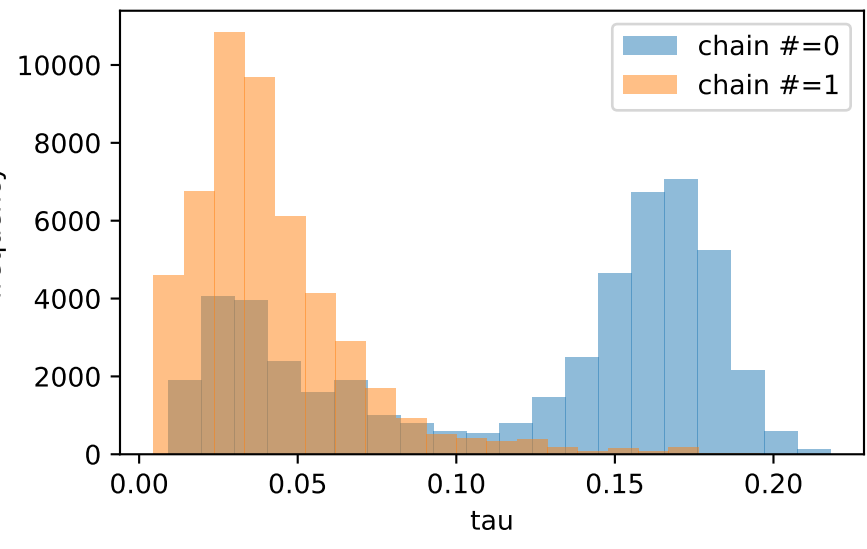
chain #=1
25000
20000
15000
10000
5000
0
0.5
1.0
1.5
2.0
phi
1e−7


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
15
20
25
30
beta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8000
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4000
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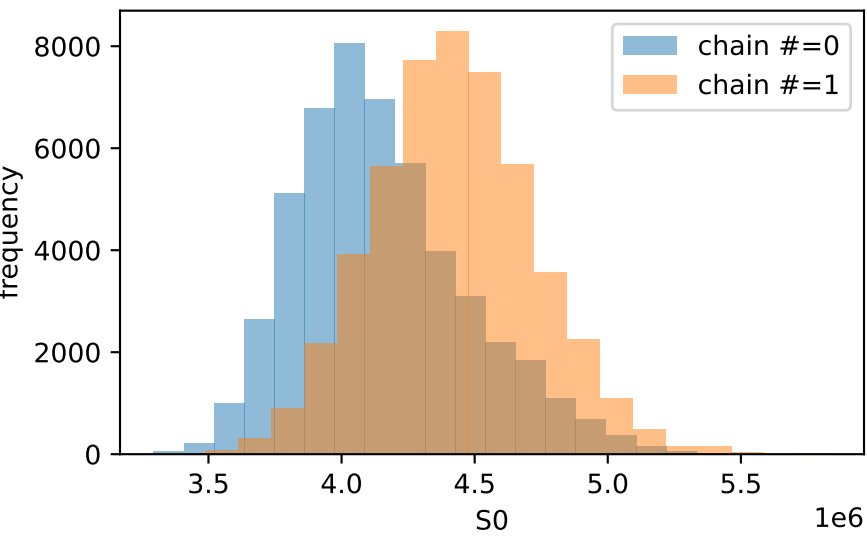
0.05
0.10
0.15
0.20
tau


chain #=0
chain #=1
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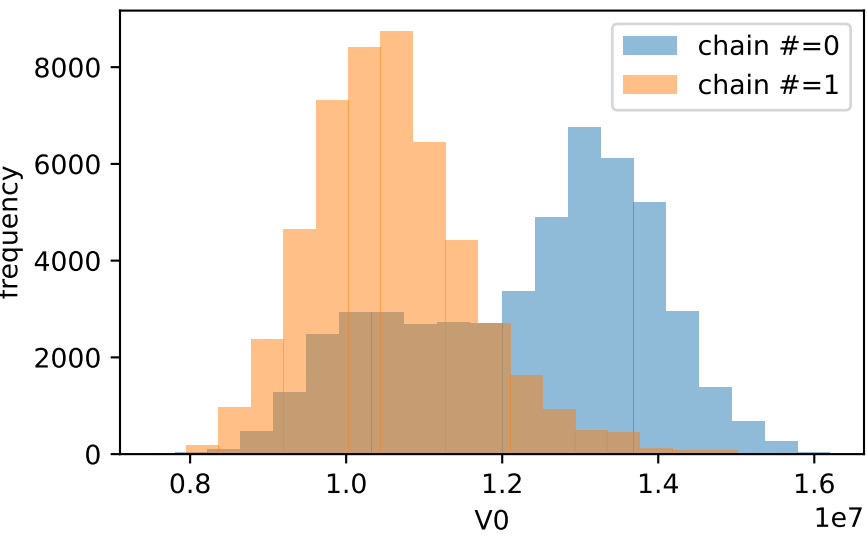
6000
4000
2000
0
frequency
3.5
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
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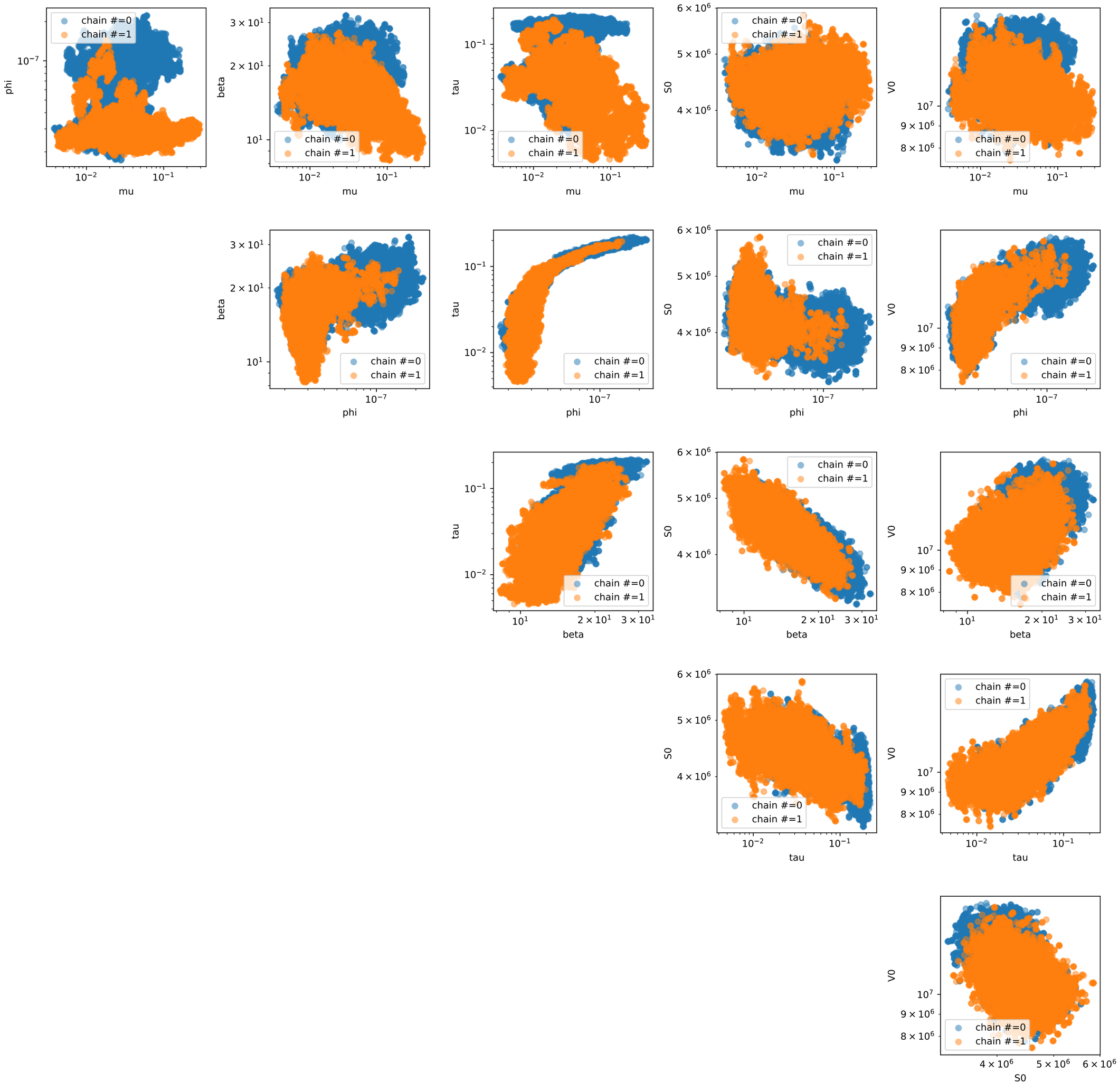
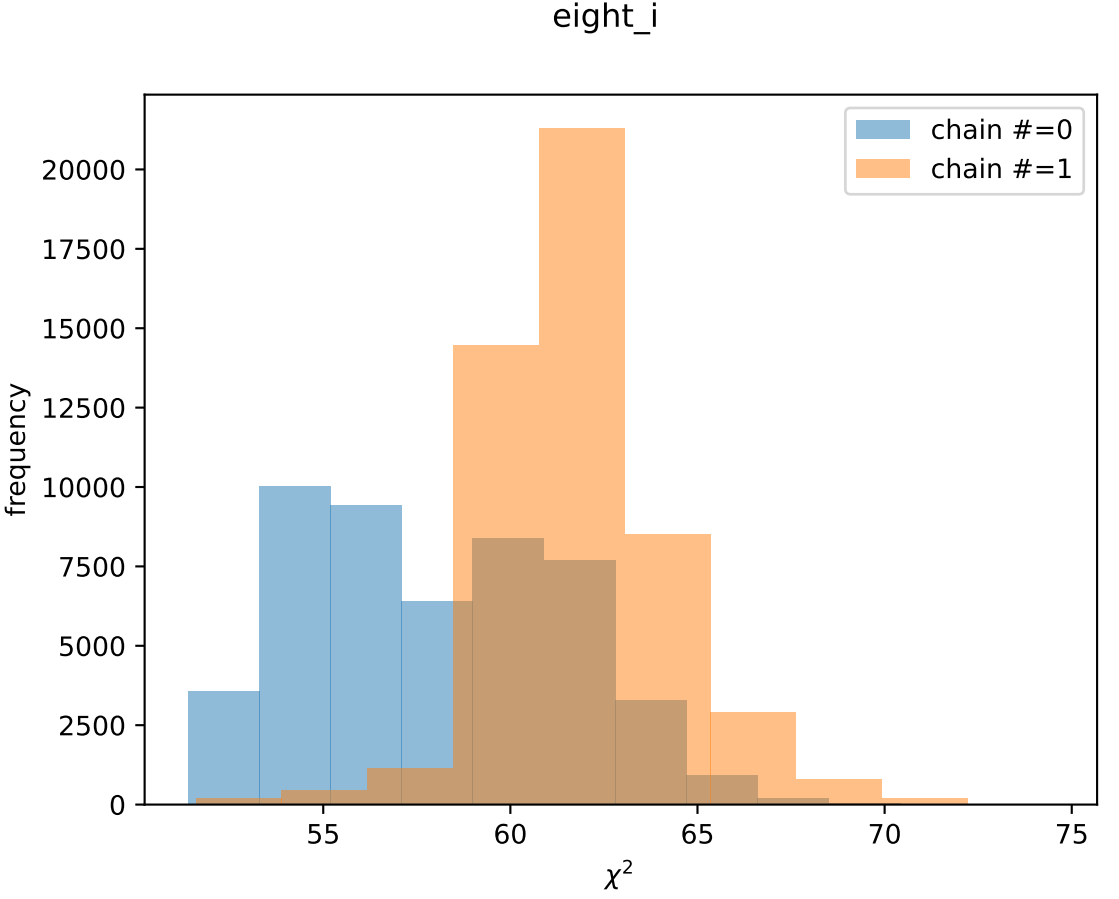
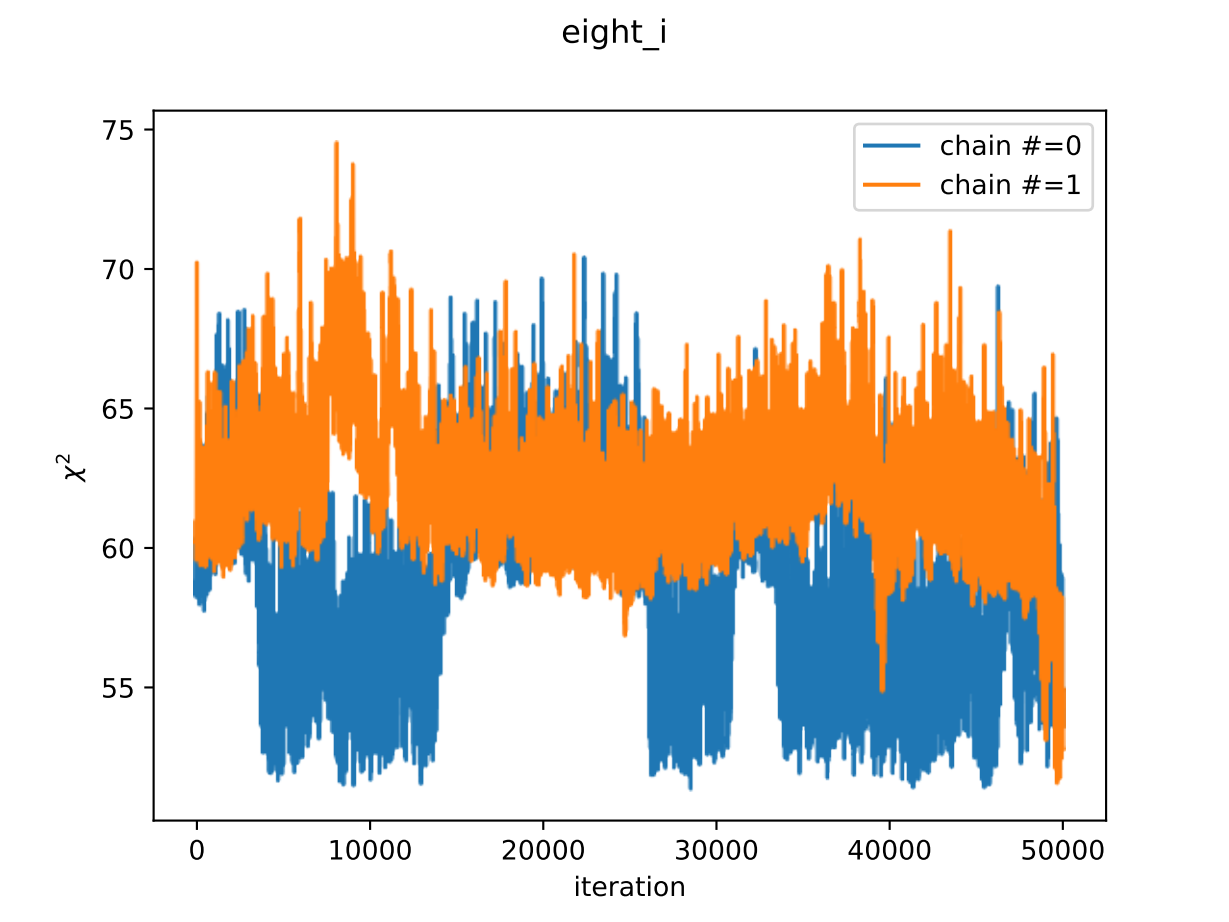
8000
6000
4000
2000
0
frequency
0.8
1.0
1.2
1.4
1.6
V0
1e7

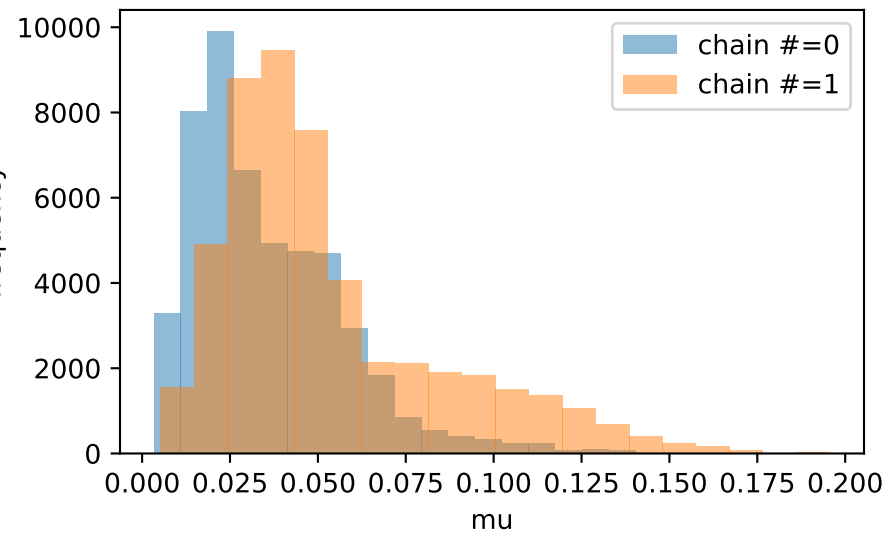
eight_i




eight_i
chain #=0
chain #=1
frequency
20000
17500
15000
12500
10000
7500
5000
2500
0
55
60
65
70
75
χ^2


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

nine_i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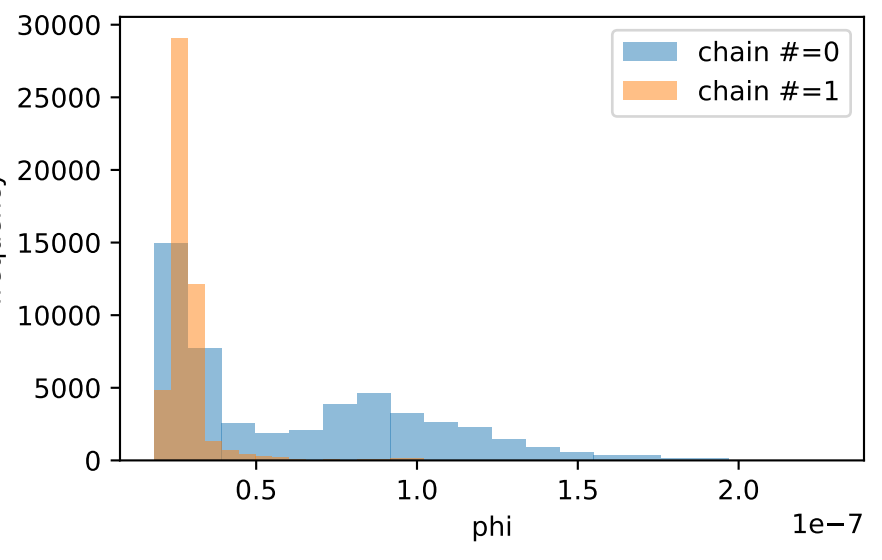
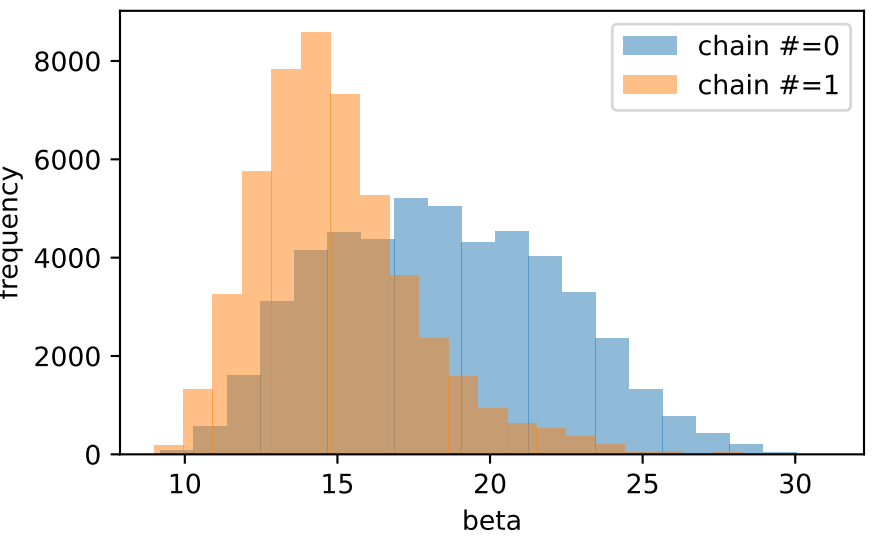
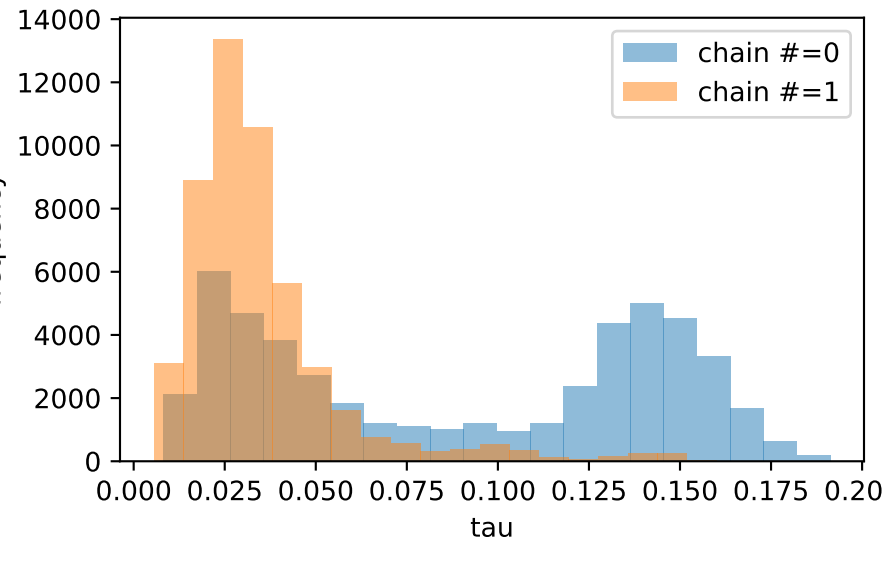
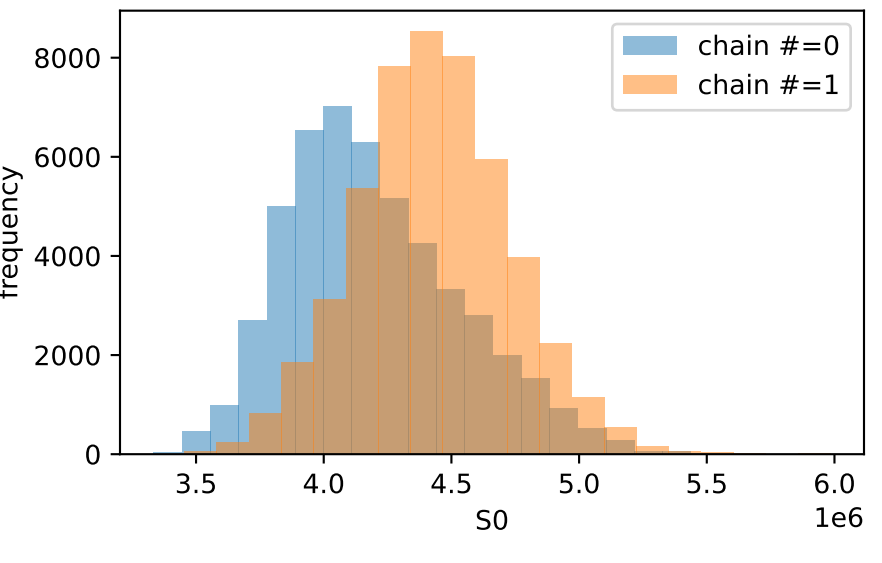
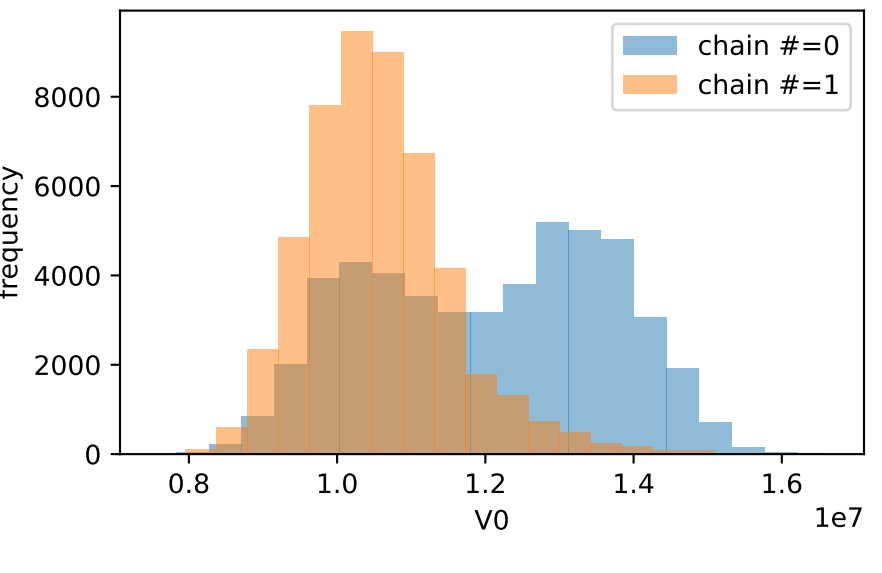
chain #=1
10000
8000
6000
4000
2000
0
0.000 0.025 0.050 0.075 0.100 0.125 0.150 0.175 0.200
mu


chain #=0
chain #=1
30000
25000
20000
15000
10000
5000
0
0.5
1.0
1.5
2.0
phi
1e−7


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
15
20
25
30
beta

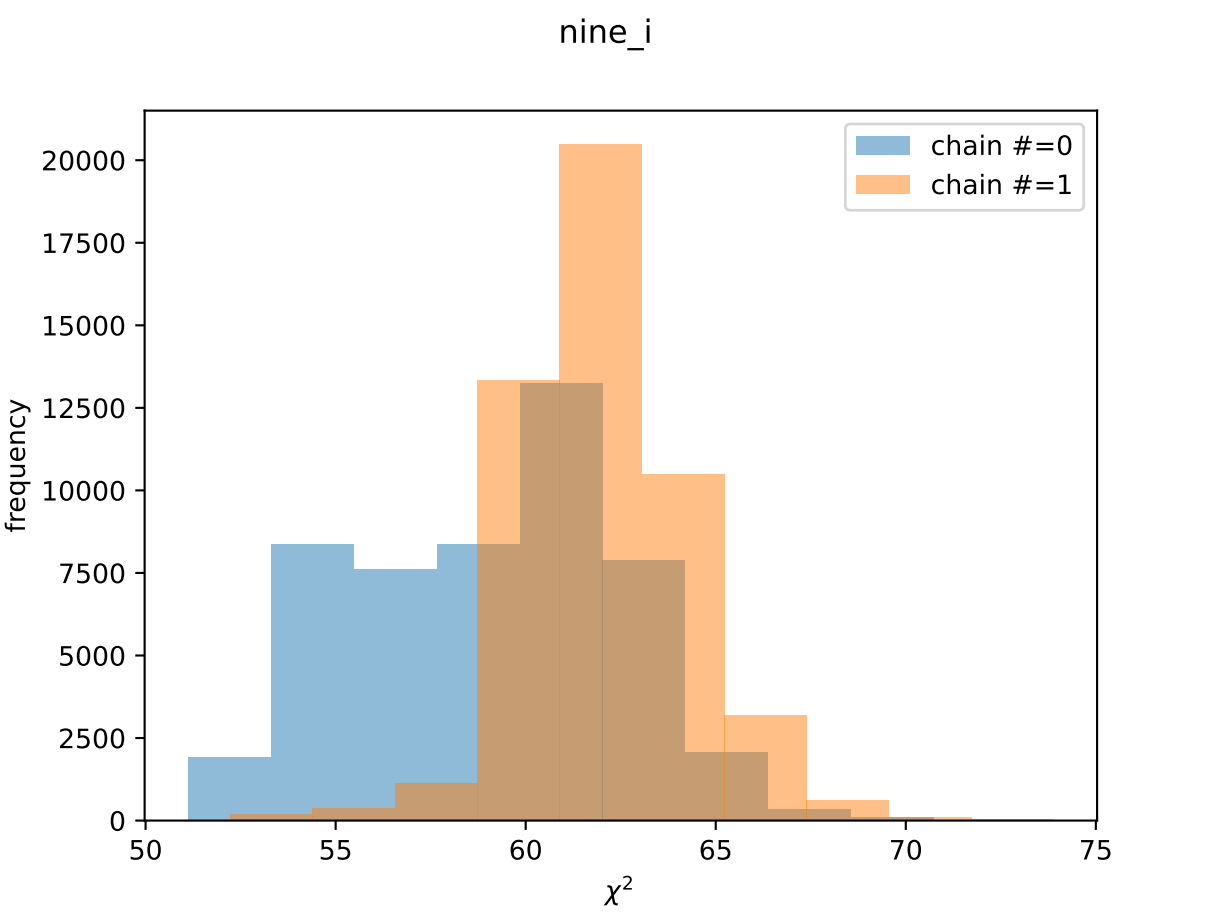

chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
0.000 0.025 0.050 0.075 0.100 0.125 0.150 0.175 0.200
tau

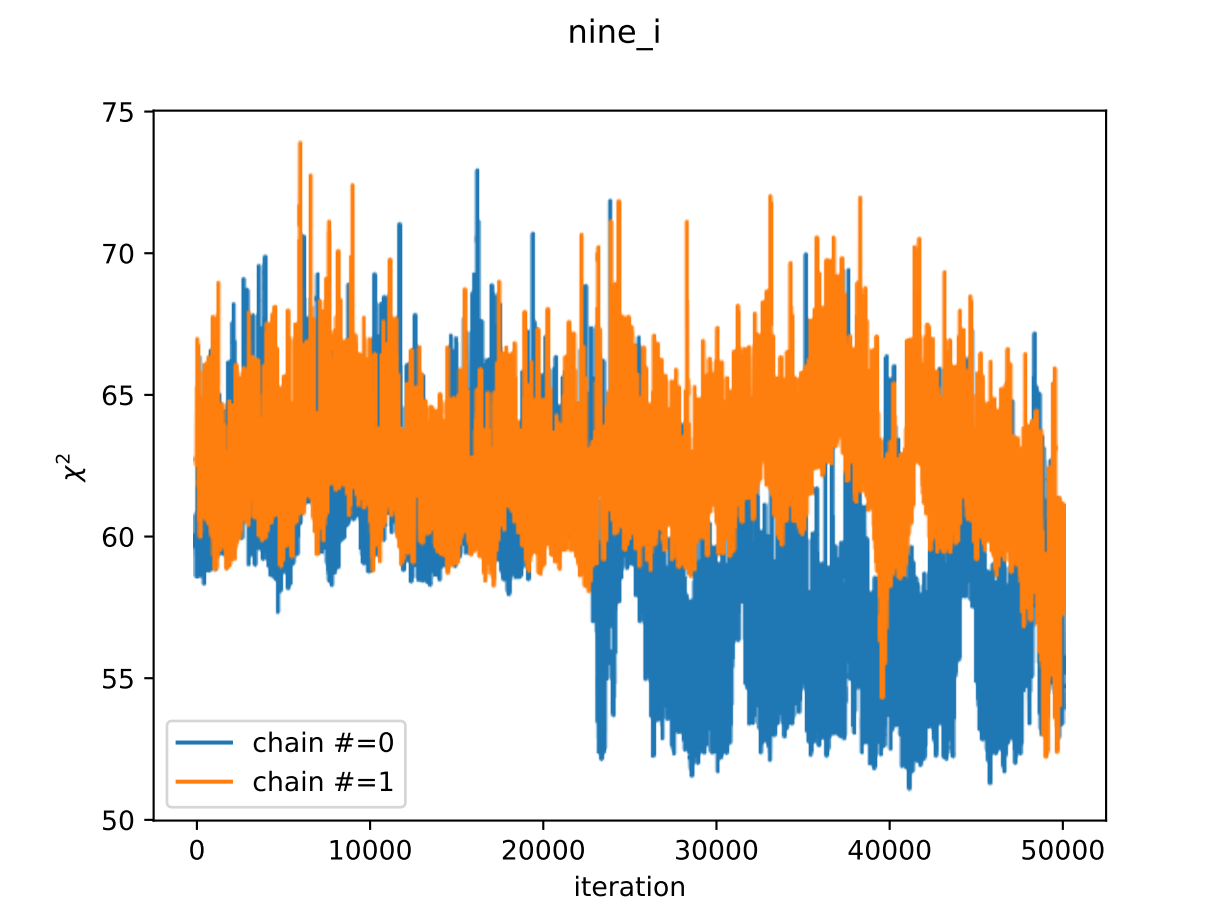

chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
3.5
4.0
4.5
5.0
5.5
6.0
S0
1e6


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
0.8
1.0
1.2
1.4
1.6
V0
1e7

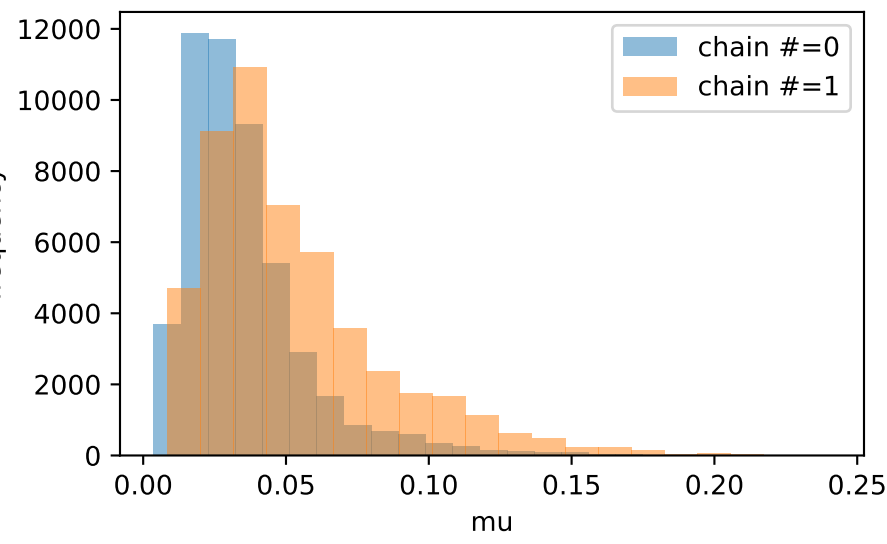
nine_i

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


nine_i
chain #=0
chain #=1
frequency
20000
17500
15000
12500
10000
7500
5000
2500
0
50
55
60
65
70
75
χ^2


nine_i
75
70
65
60
55
50
χ^2
0
10000
20000
30000
40000
50000
iteration
chain #=0
chain #=1

ten_i


chain #=0
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12000
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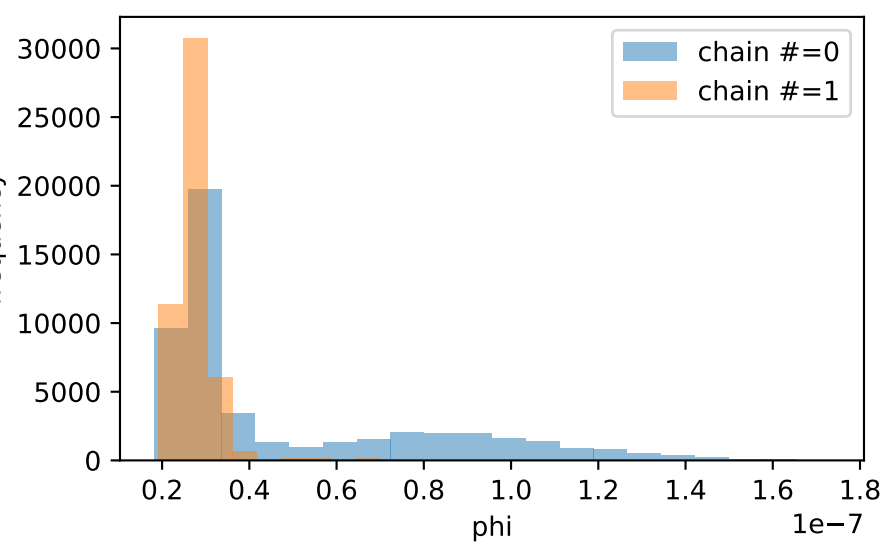
8000
6000
4000
2000
0
0.00
0.05
0.10
0.15
0.20
0.25
mu


chain #=0
chain #=1
30000
25000
20000
15000
10000
5000
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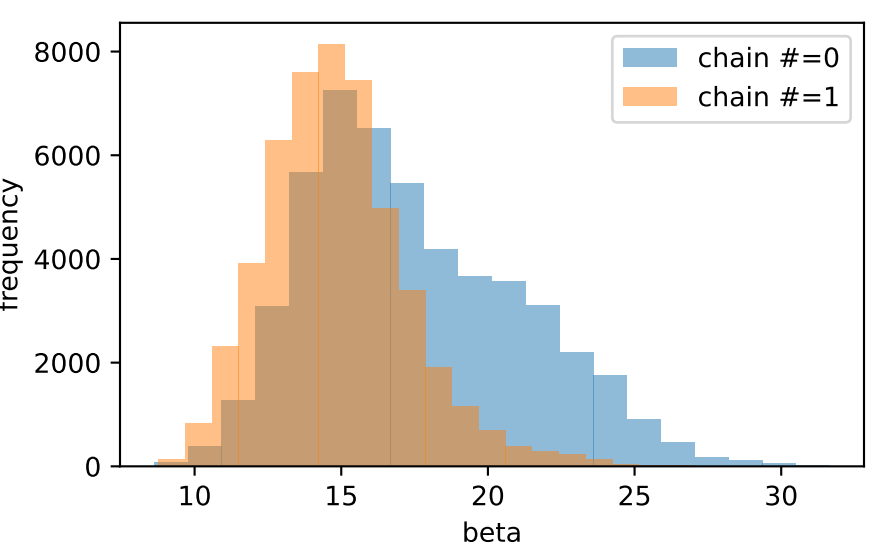
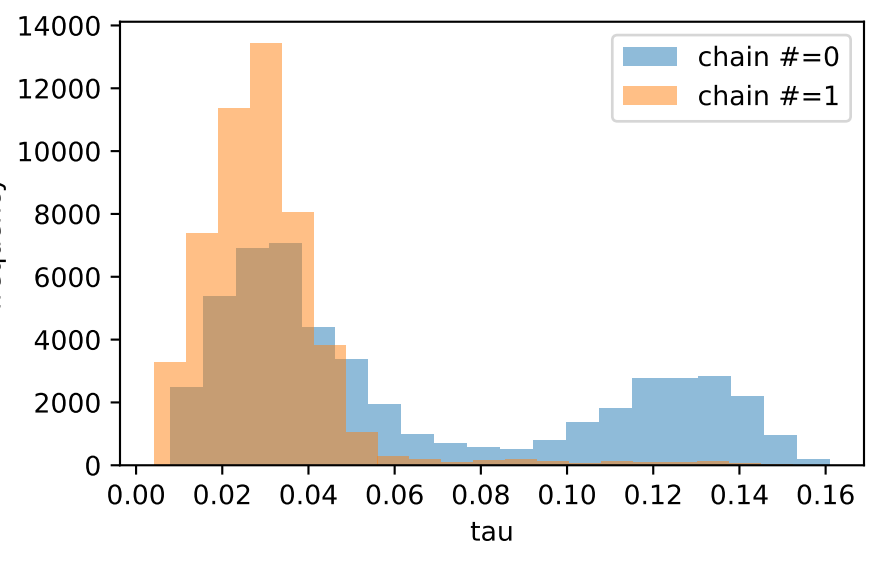
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
phi
1e−7


chain #=0
chain #=1
8000
6000
4000
2000
0
frequency
10
15
20
25
30
beta


chain #=0
chain #=1
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8000
6000
4000
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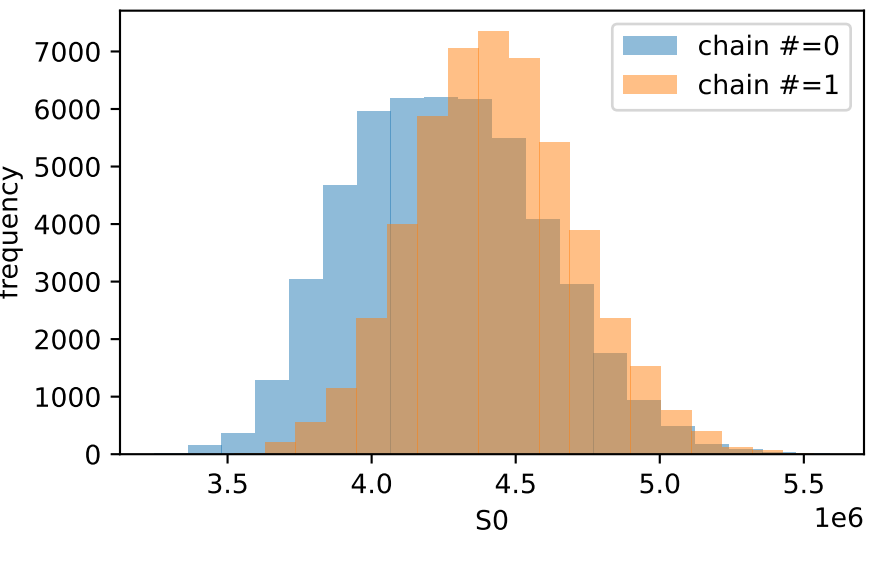
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
tau


chain #=0
chain #=1
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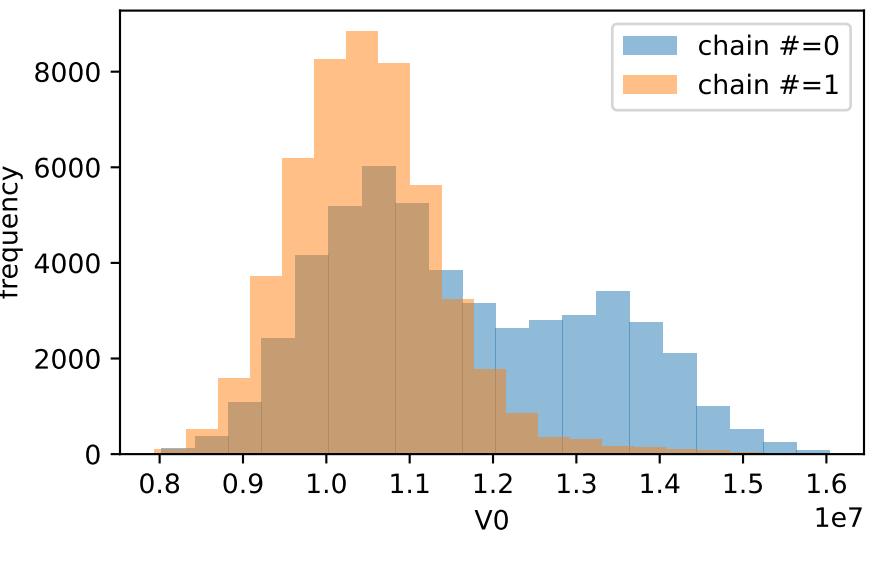
6000
5000
4000
3000
2000
1000
0
frequency
3.5
4.0
4.5
5.0
5.5
S0
1e6


chain #=0
chain #=1
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6000
4000
2000
0
frequency
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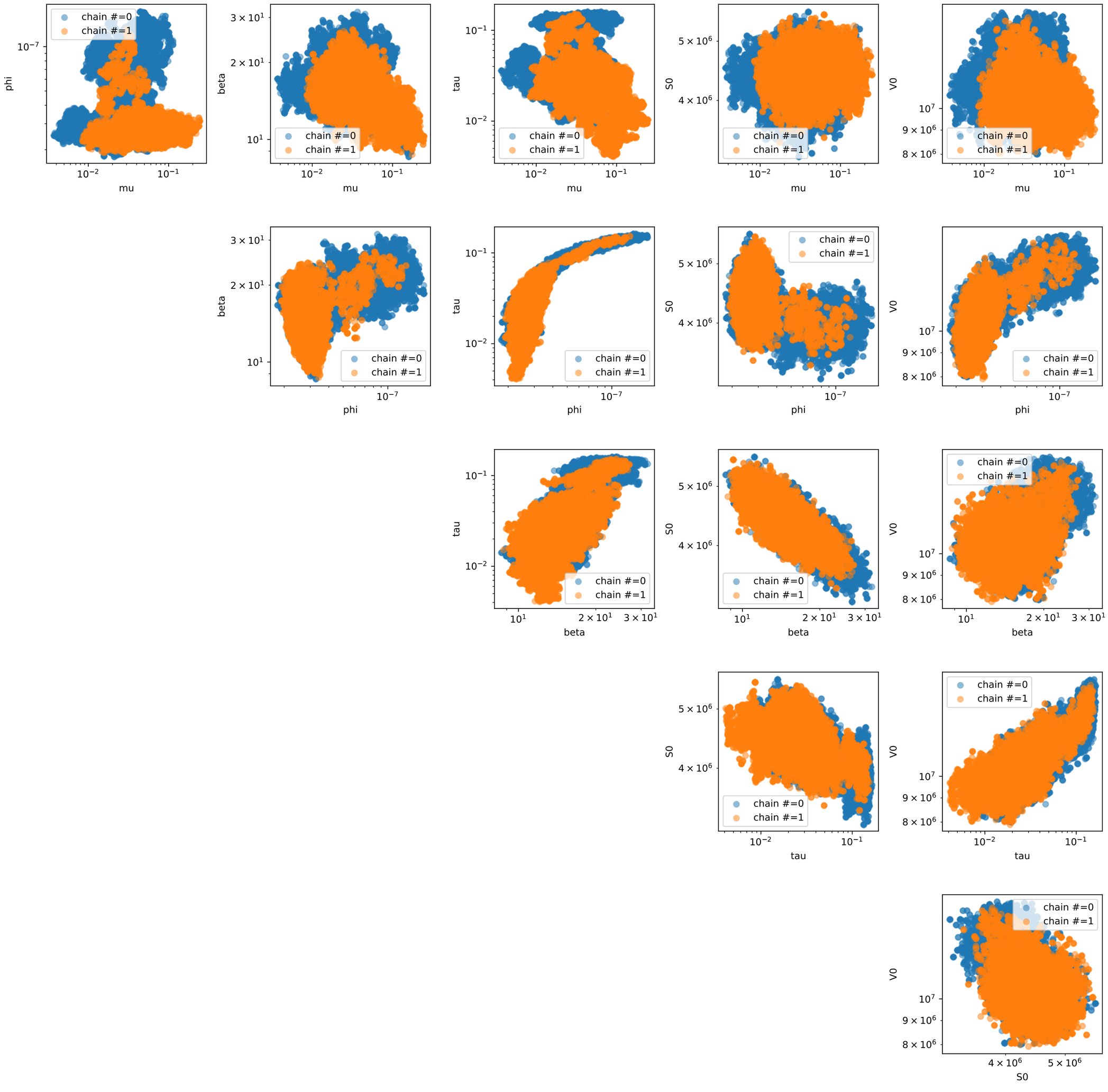
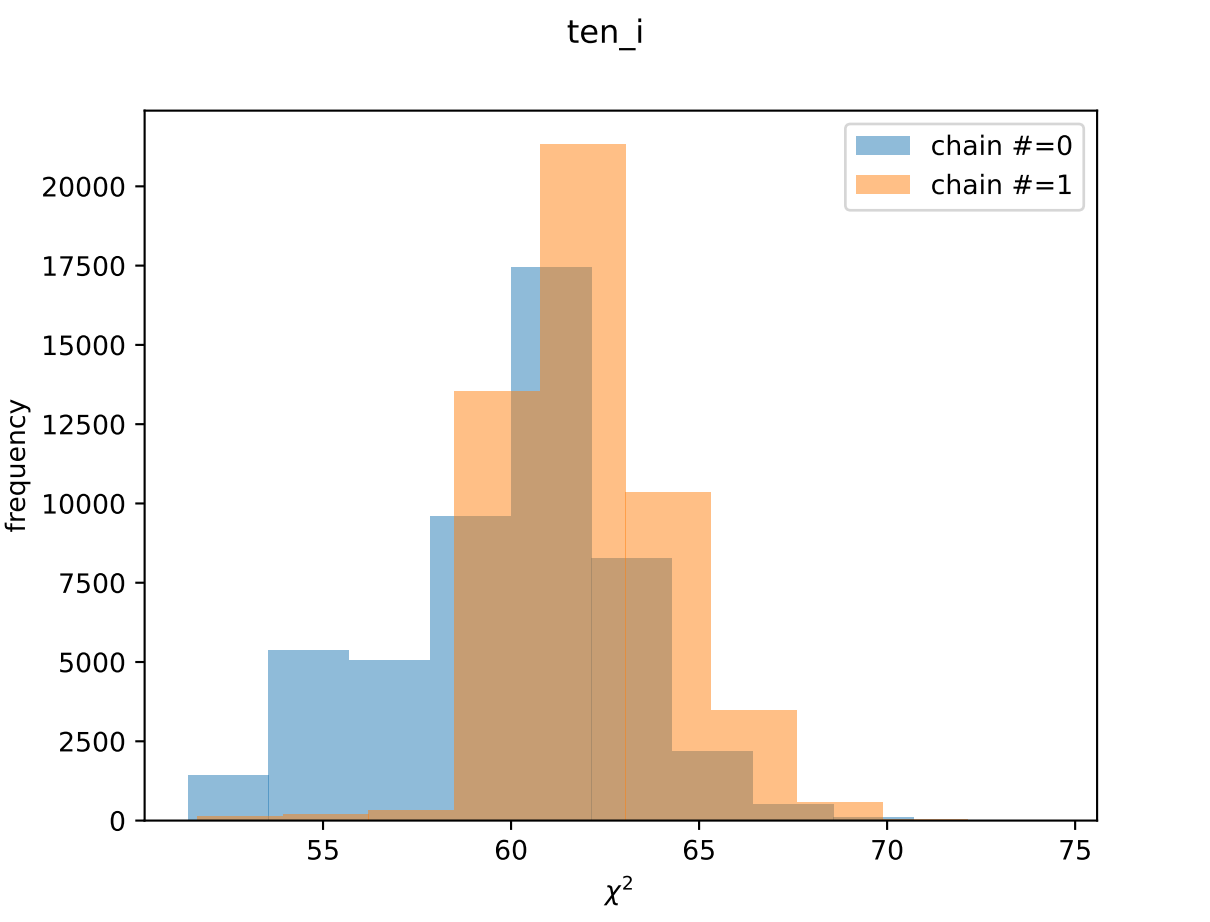
1.1
1.2
1.3
1.4
1.5
1.6
V0
1e7

ten_i




ten_i
chain #=0
chain #=1
frequency
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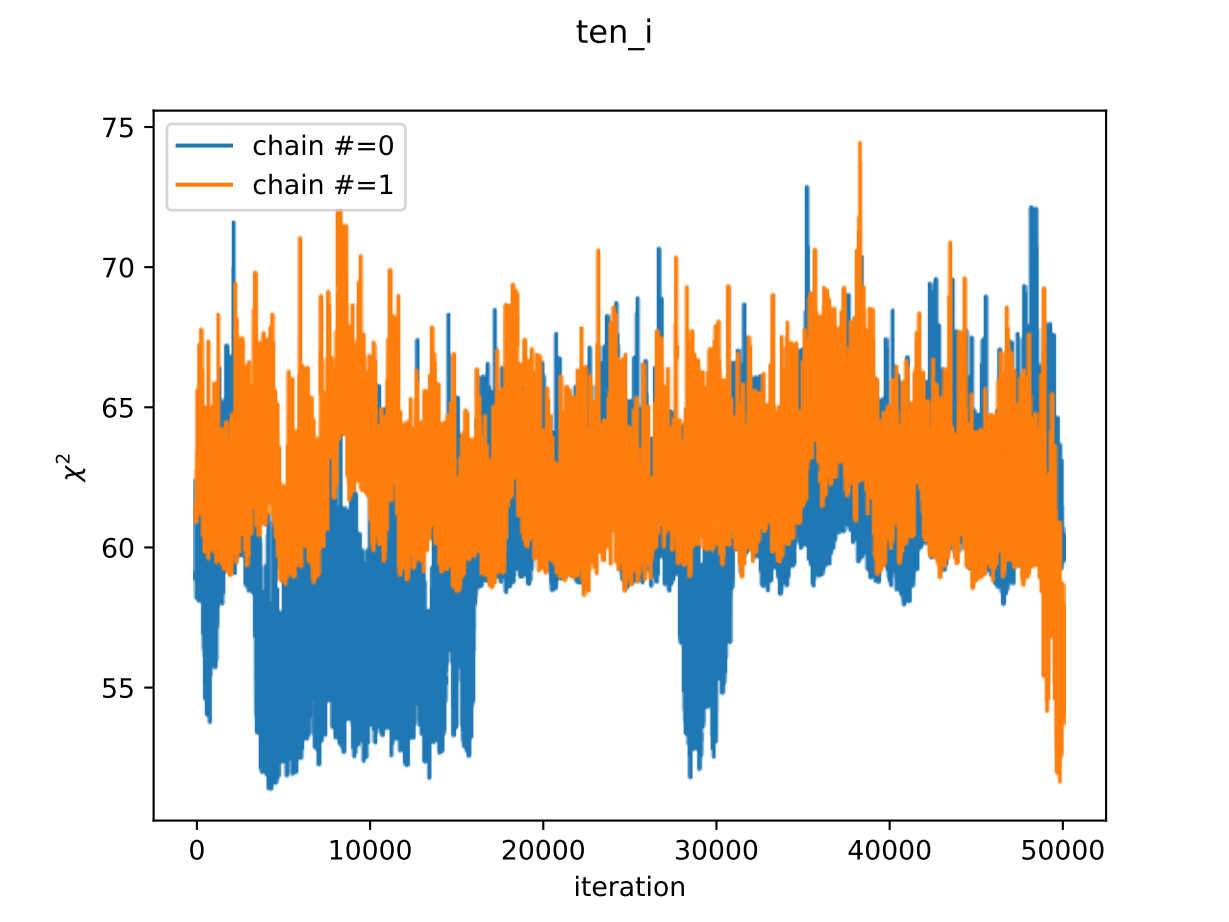
17500
15000
12500
10000
7500
5000
2500
0
55
60
65
70
75
χ^2


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