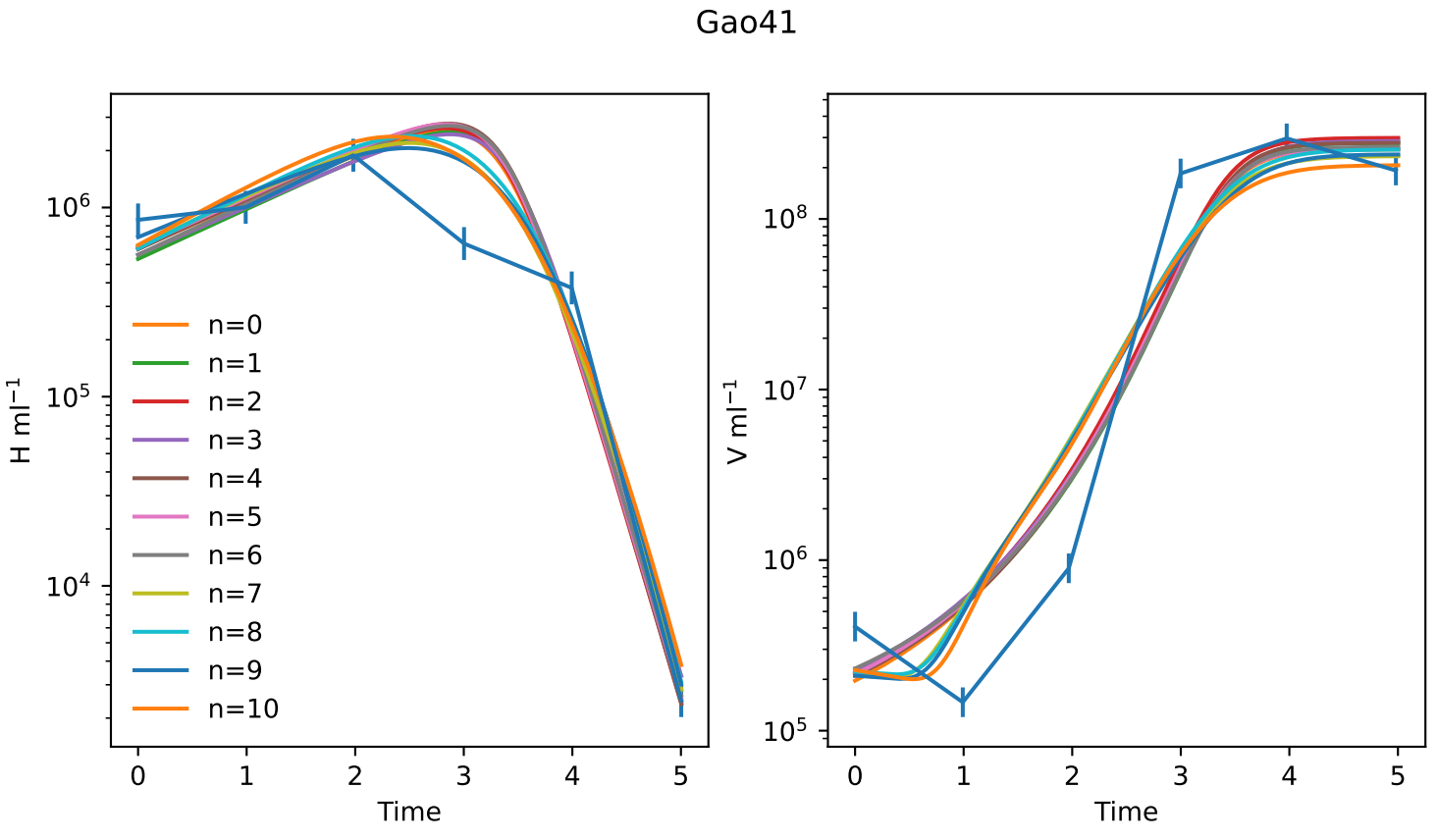
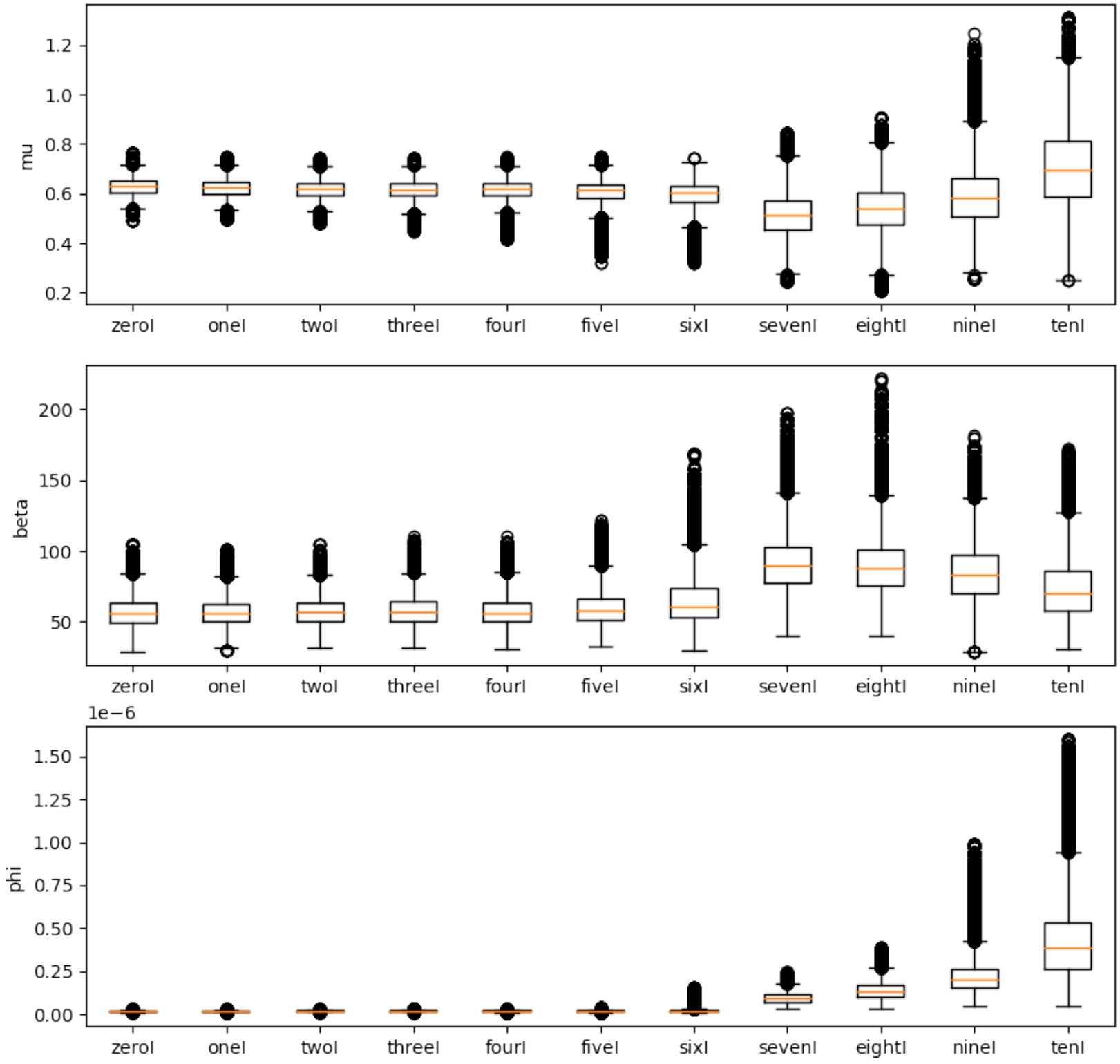
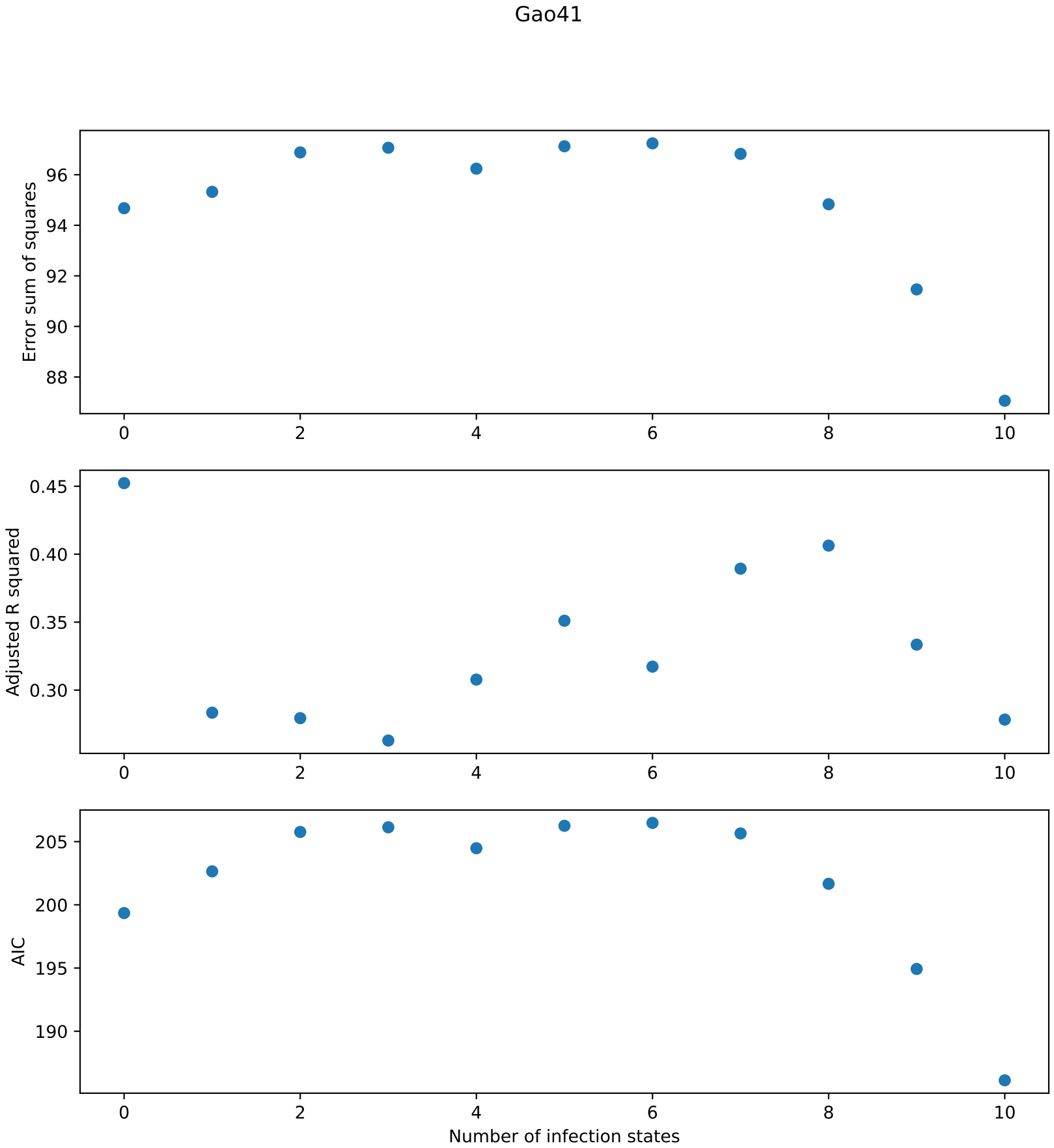
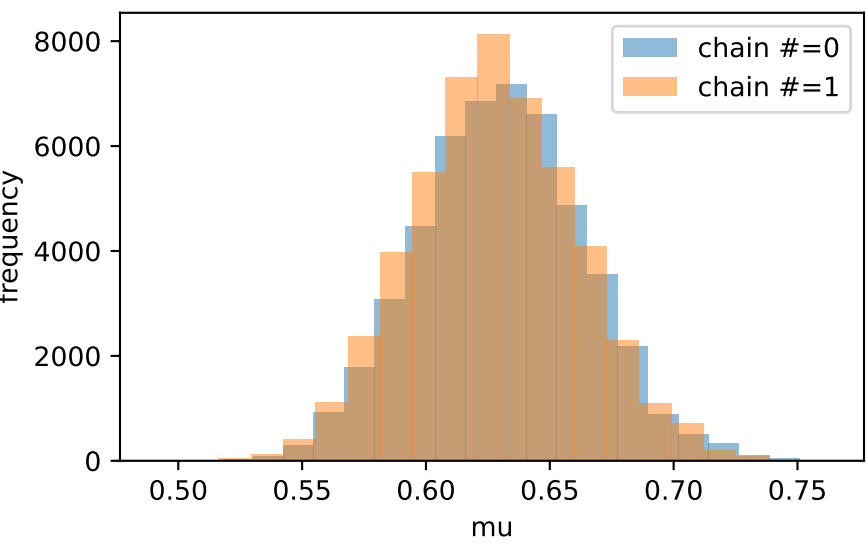

Gao41
H ml^{-1}
V ml^{-1}
Time
Time
n=0
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8
n=9
n=10

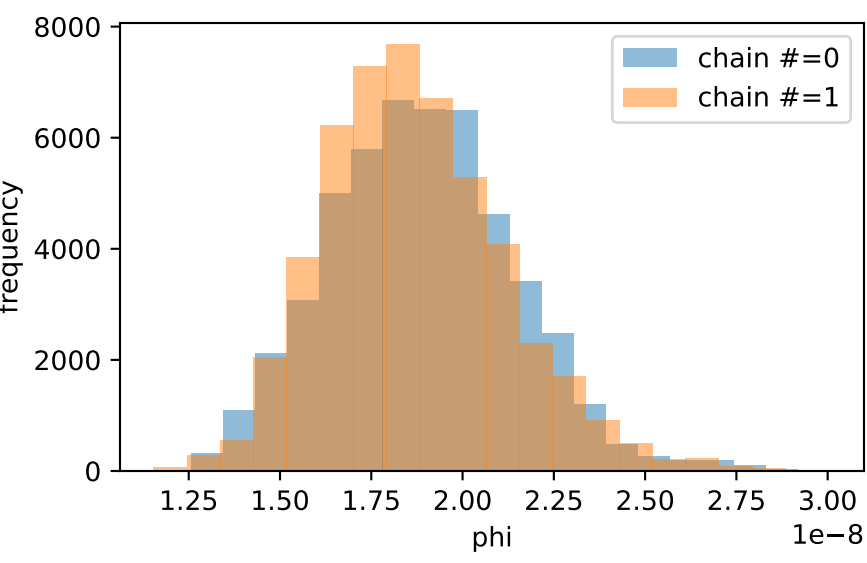
Gao41

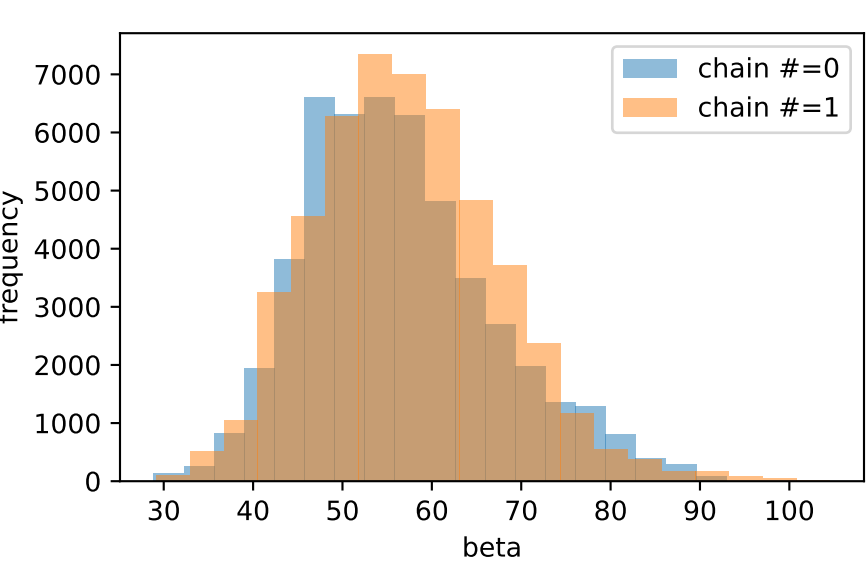

mu
1.2
1.0
0.8
0.6
0.4
0.2
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI
beta
200
150
100
50
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI
1e−6
phi
1.50
1.25
1.00
0.75
0.50
0.25
0.00
zeroI
oneI
twoI
threeI
fourI
fiveI
sixI
sevenI
eightI
nineI
tenI

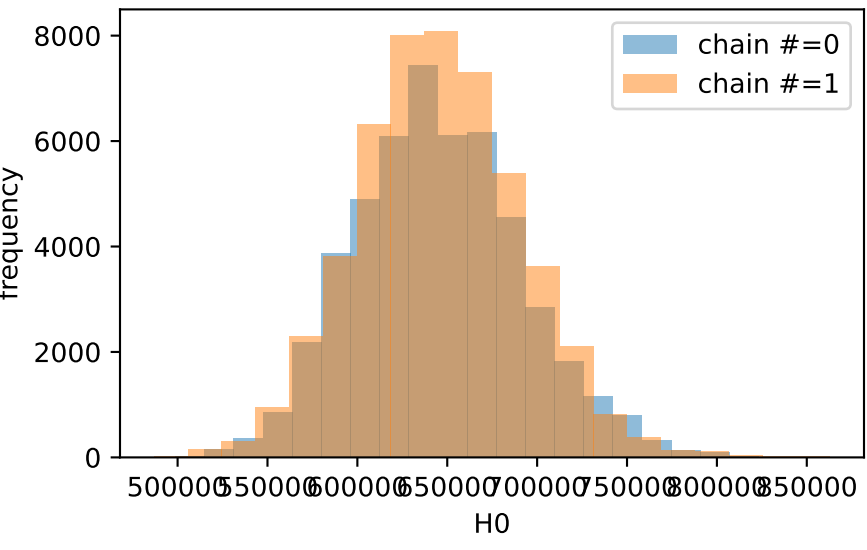

Gao41
Error sum of squares
96
94
92
90
88
0
2
4
6
8
10
Adjusted R squared
0.45
0.40
0.35
0.30
0
2
4
6
8
10
AIC
205
200
195
190
0
2
4
6
8
10
Number of infection states

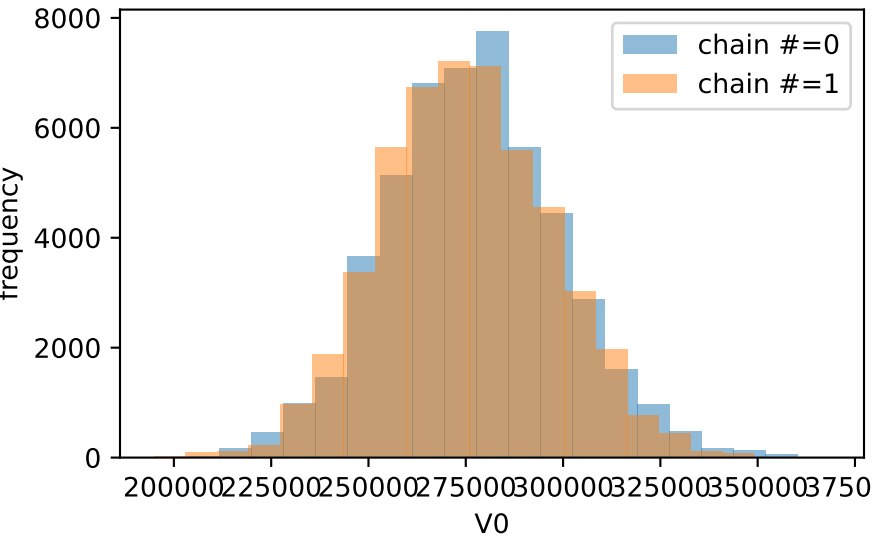
zero_i


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.50
0.55
0.60
0.65
0.70
0.75
mu

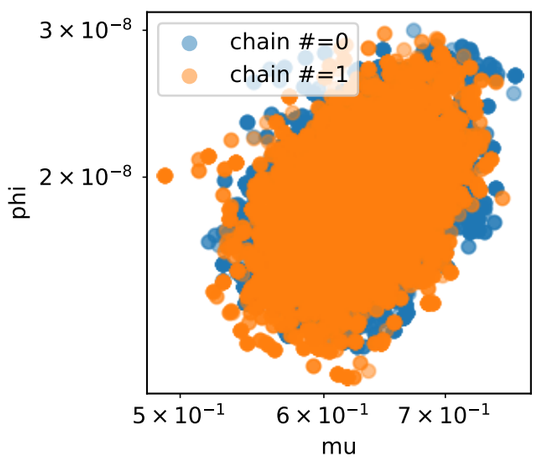

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
1e−8
phi

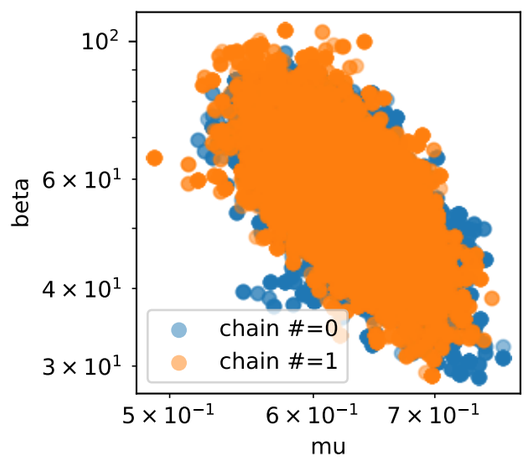

chain #=0
chain #=1
frequency
7000
6000
5000
4000
3000
2000
1000
0
30
40
50
60
70
80
90
100
beta

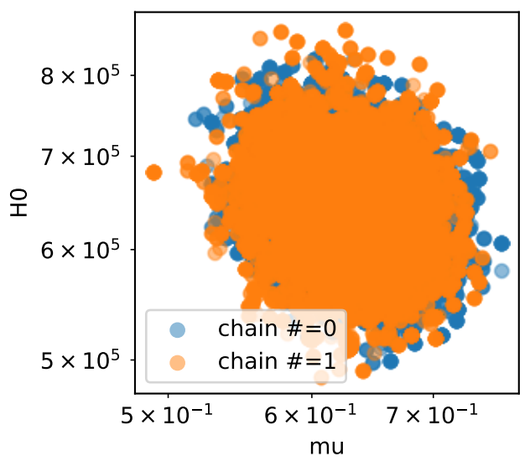

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
500000
550000
600000
650000
700000
750000
800000
850000
H0

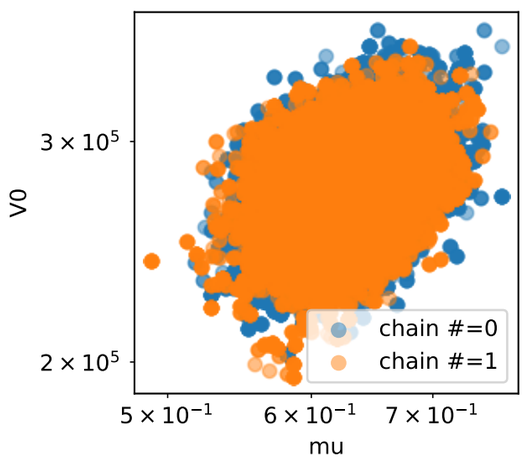

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
200000
225000
250000
275000
300000
325000
350000
375000
V0

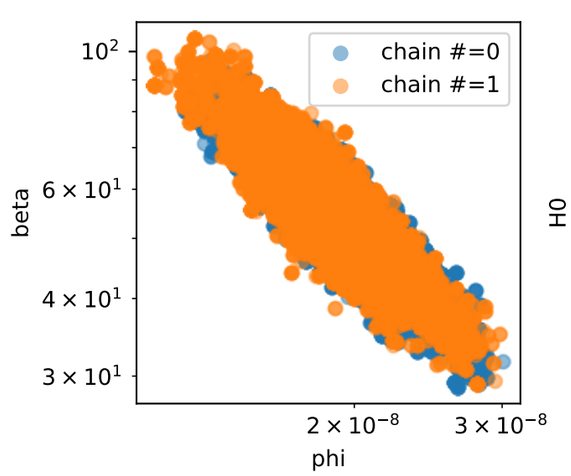
zero_i

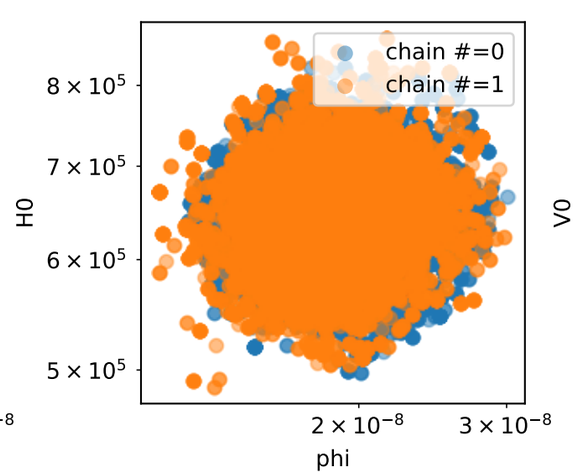

chain #=0
chain #=1
phi
mu


chain #=0
chain #=1
beta
mu


chain #=0
chain #=1
H0
mu


chain #=0
chain #=1
V0
mu


chain #=0
chain #=1
beta
phi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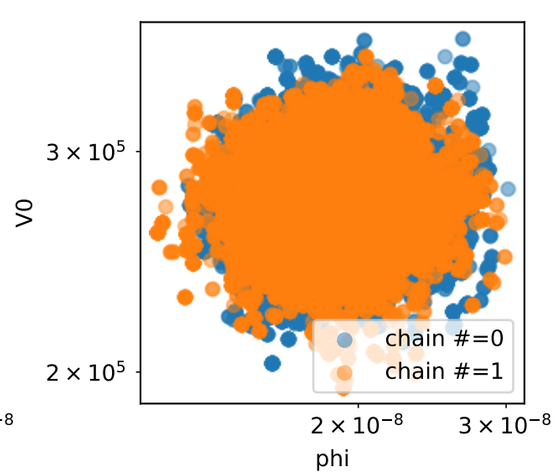
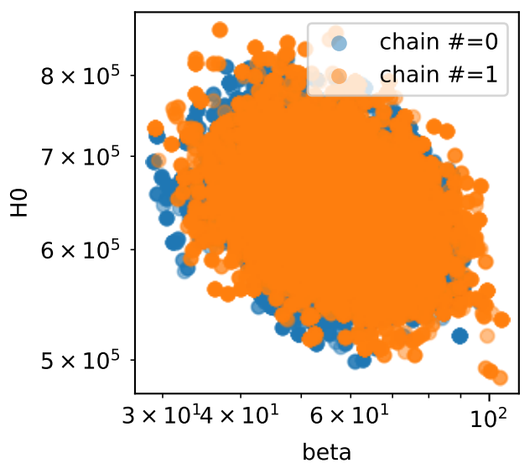
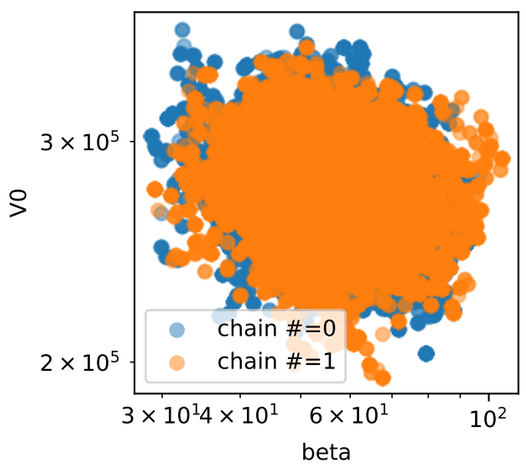
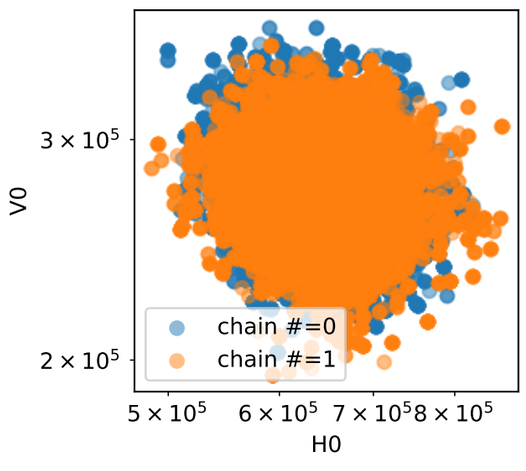
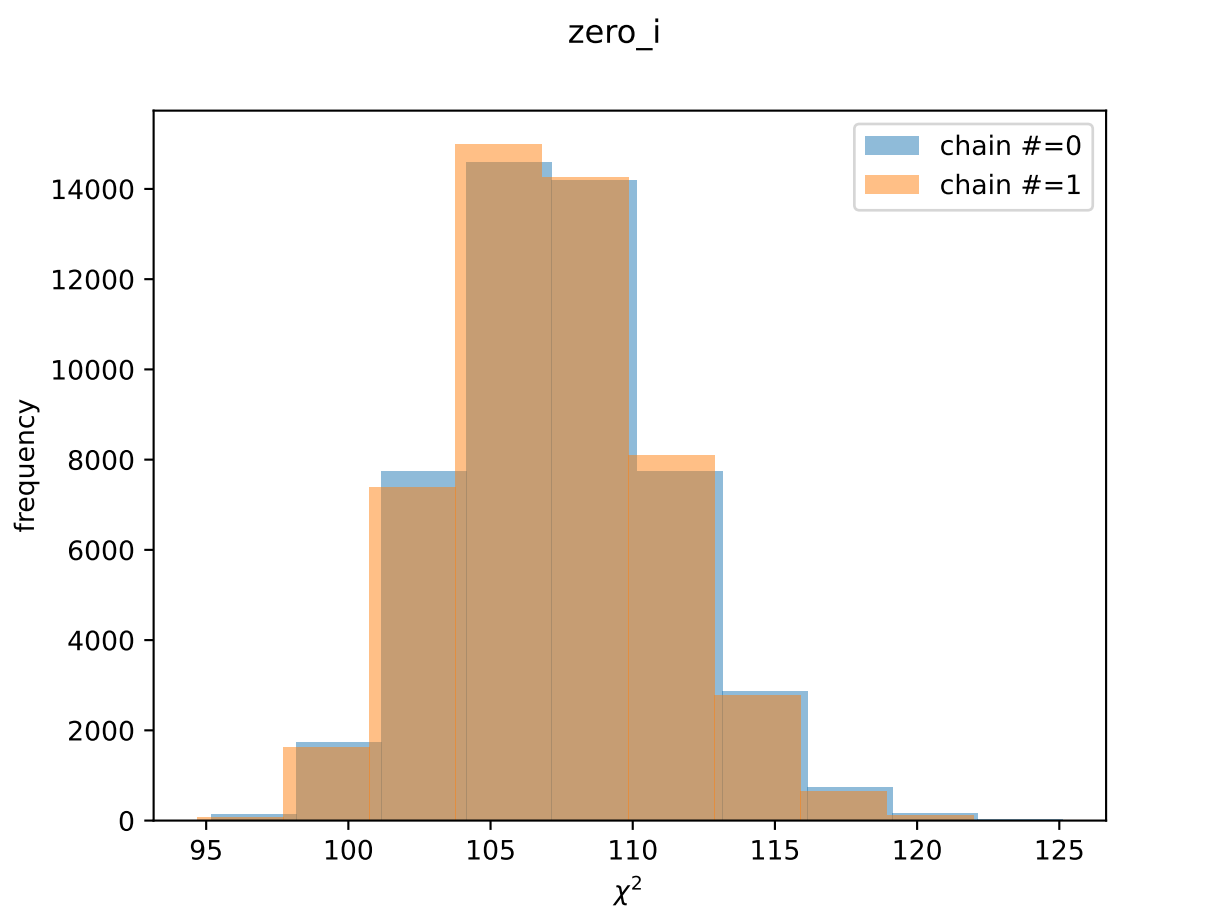
chain #=1
H0
phi

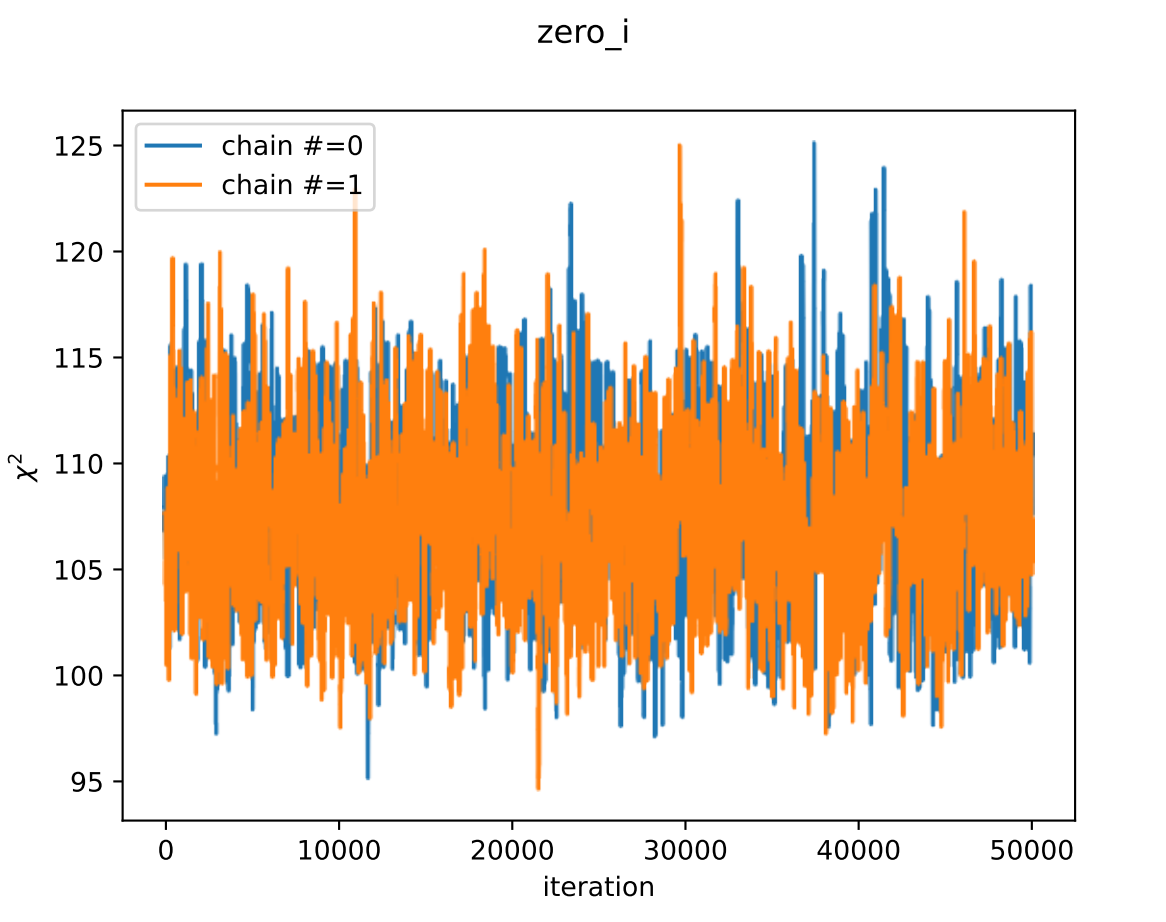

chain #=0
chain #=1
V0
phi


chain #=0
chain #=1
H0
beta

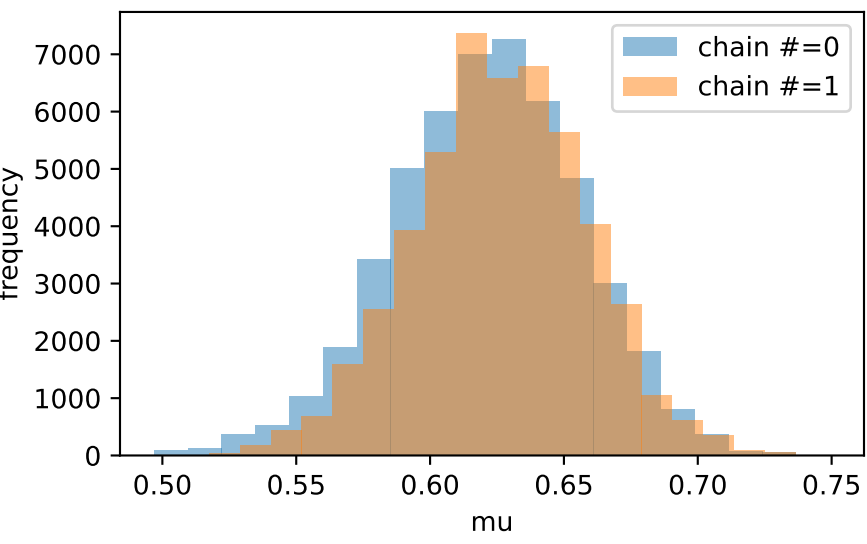

chain #=0
chain #=1
V0
beta

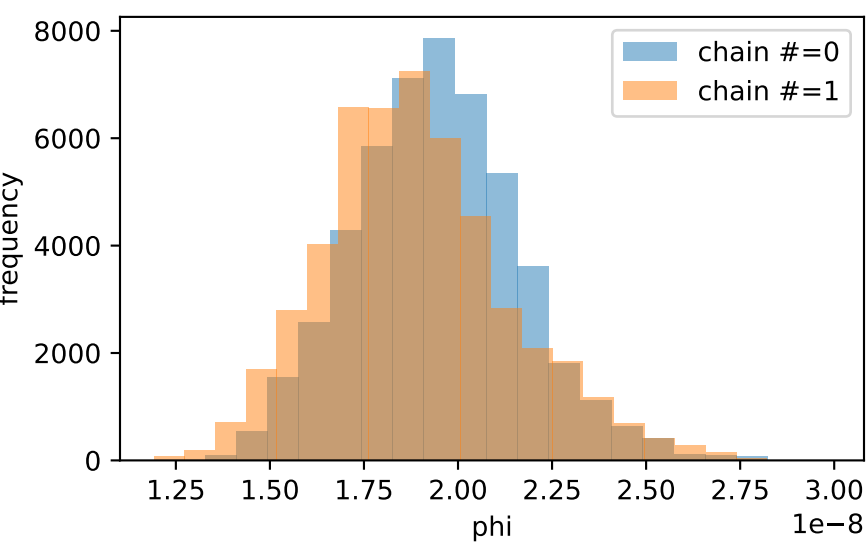

chain #=0
chain #=1
V0
H0

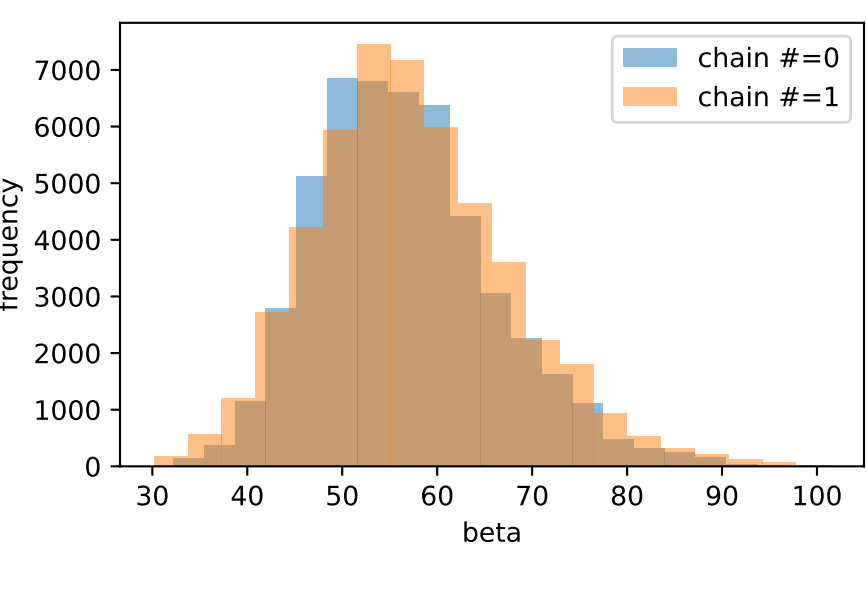

zero_i
chain #=0
chain #=1
frequency
14000
12000
10000
8000
6000
4000
2000
0
95
100
105
110
115
120
125
χ^2

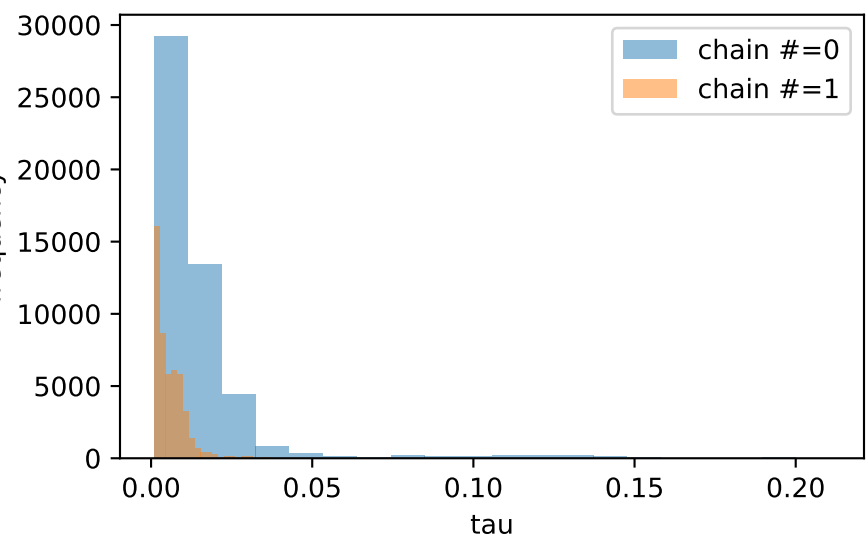

zero_i
chain #=0
chain #=1
125
120
115
110
105
100
95
χ^2
0
10000
20000
30000
40000
50000
iteration

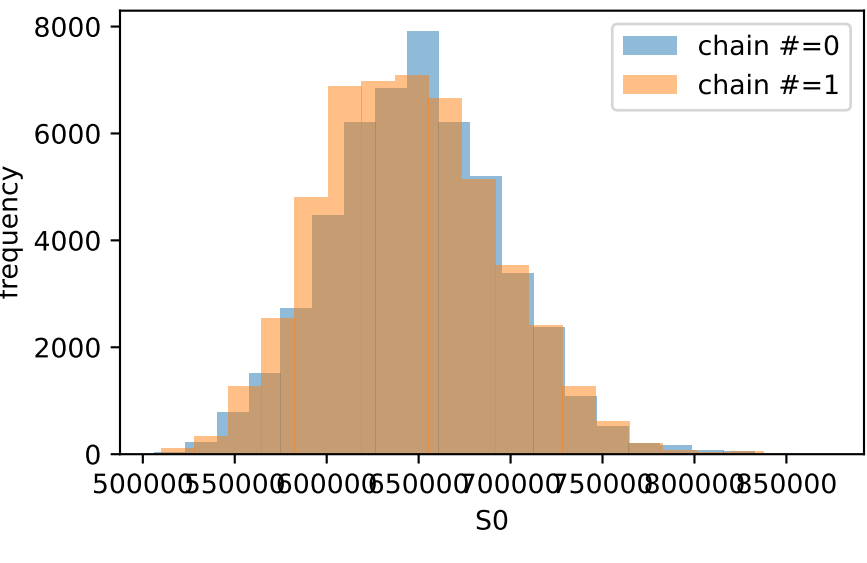
one_i

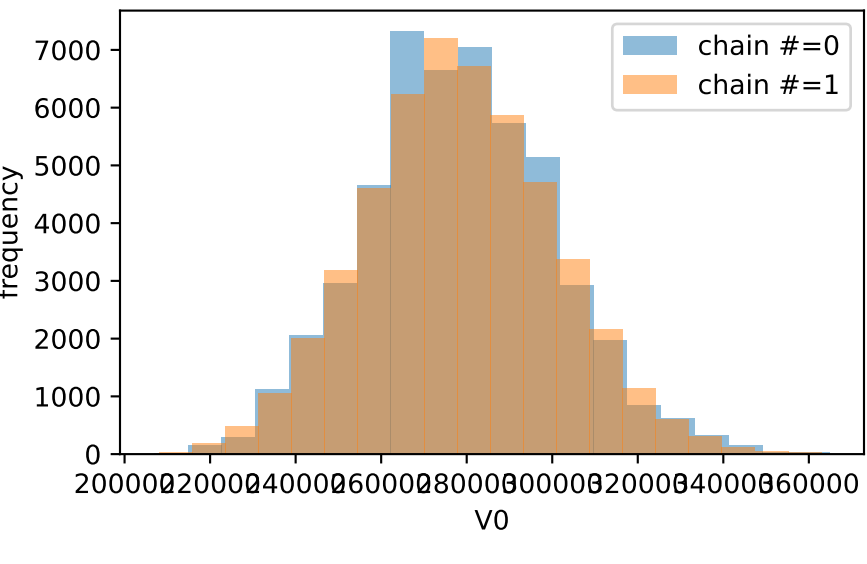

chain #=0
chain #=1
frequency
mu


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

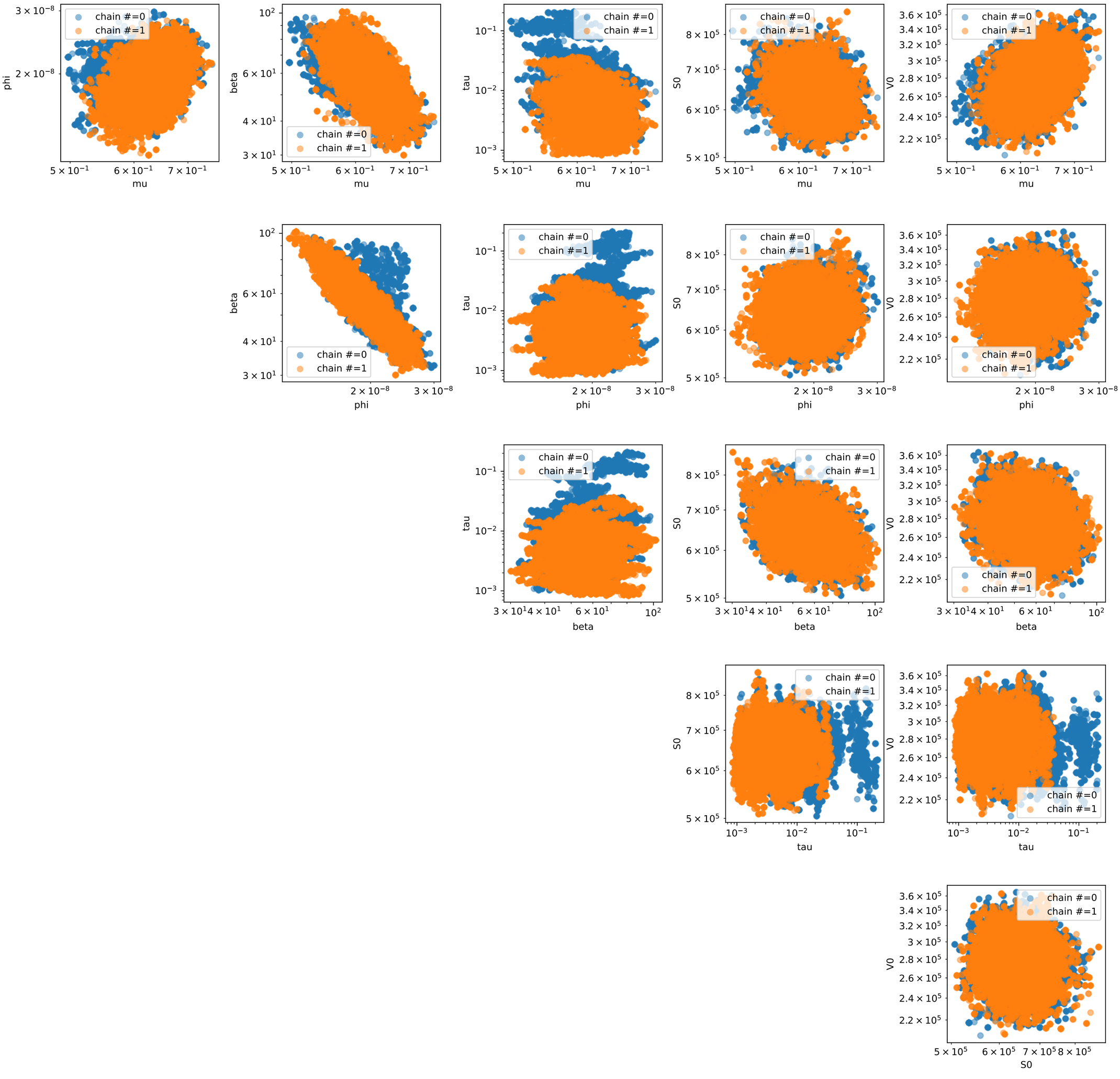

chain #=0
chain #=1
frequency
beta

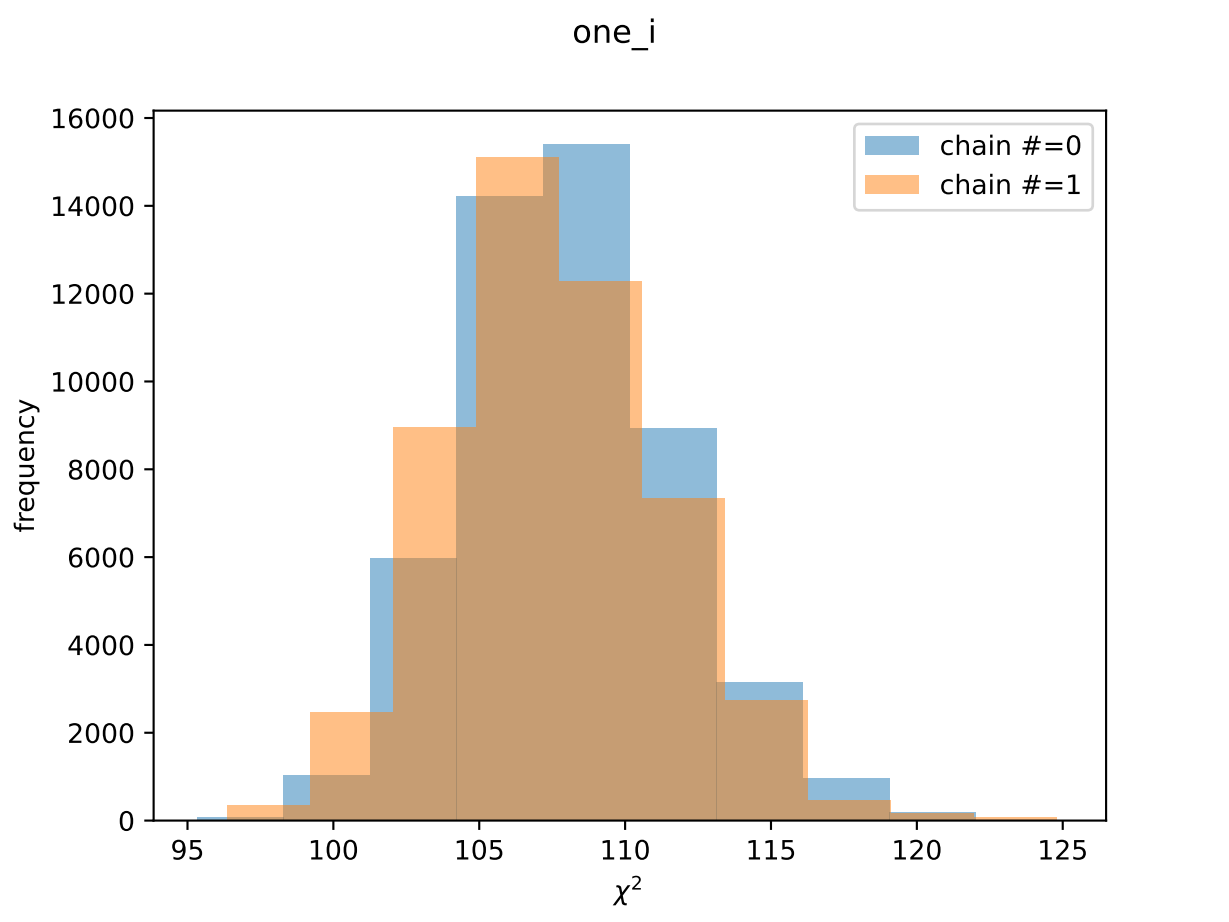

chain #=0
chain #=1
tau

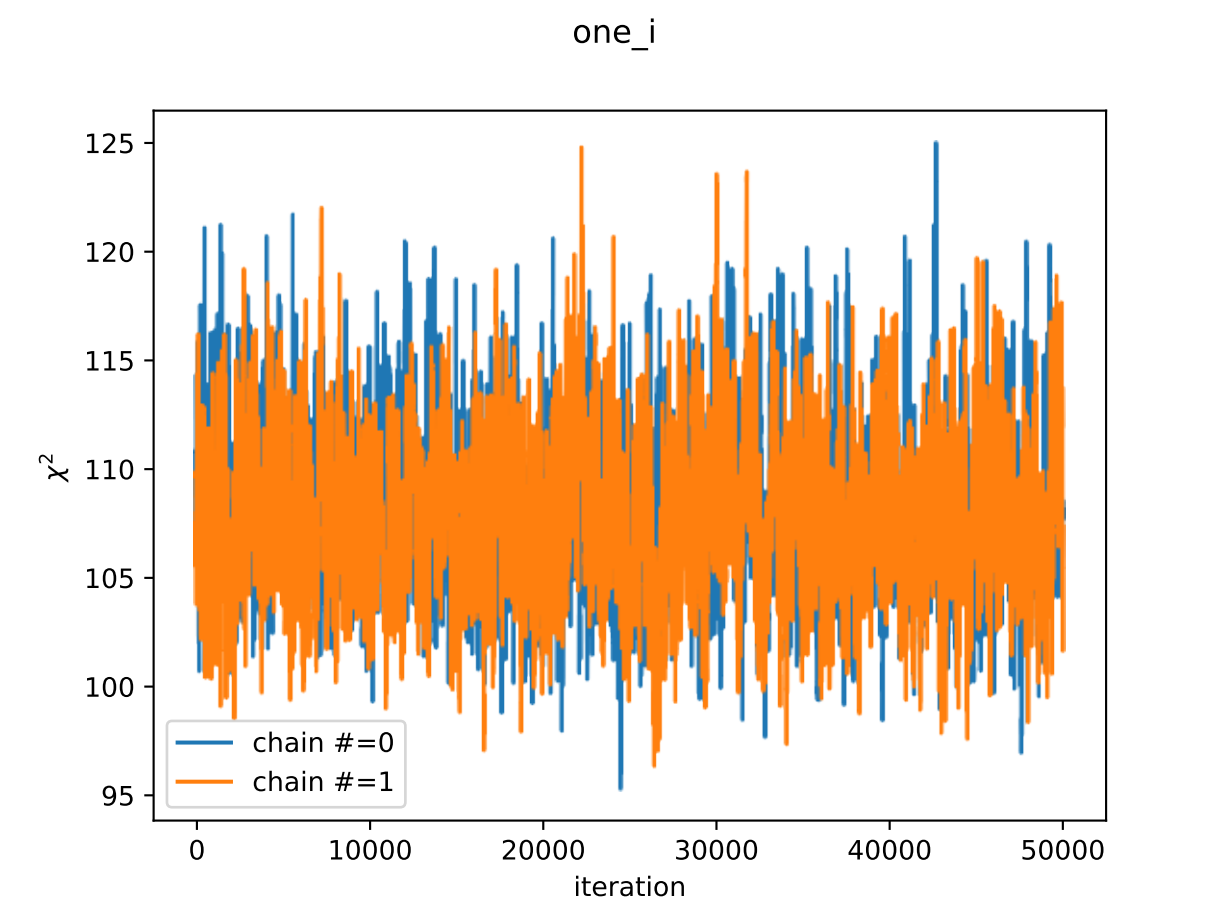

chain #=0
chain #=1
frequency
S0


chain #=0
chain #=1
frequency
V0

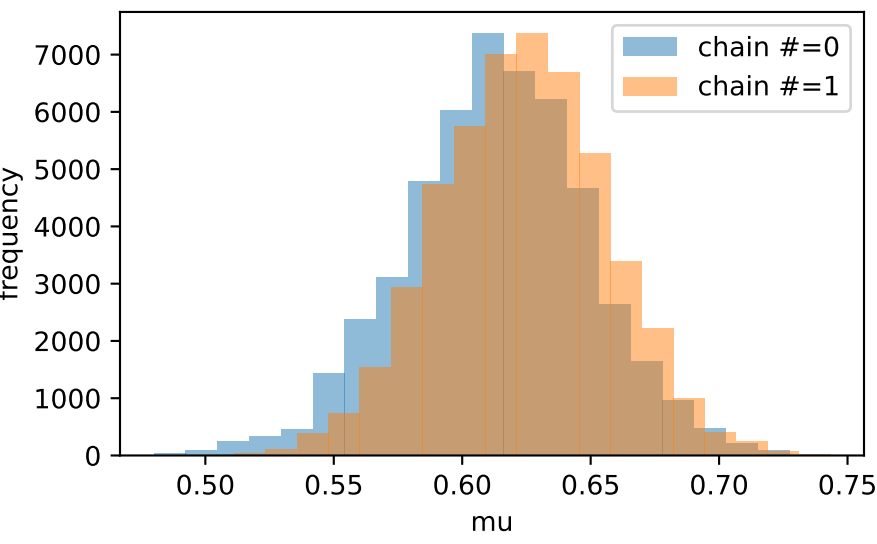
one_i

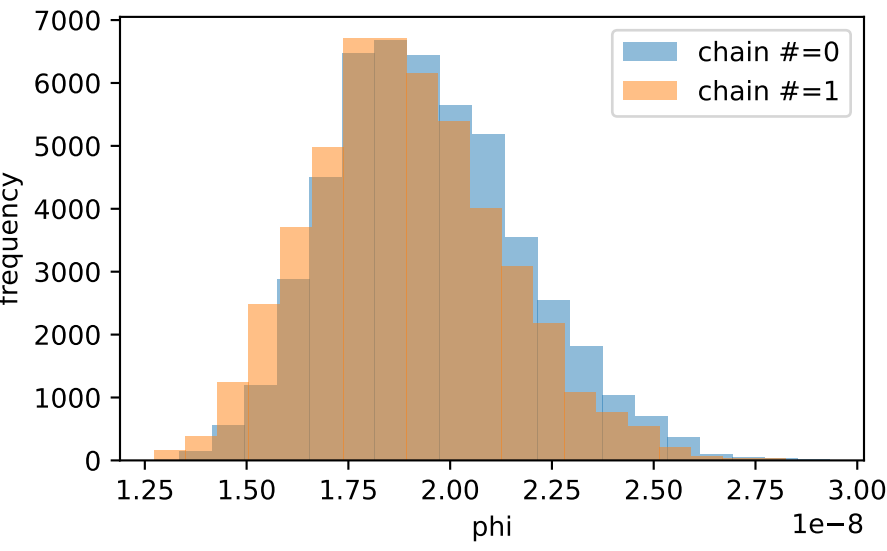


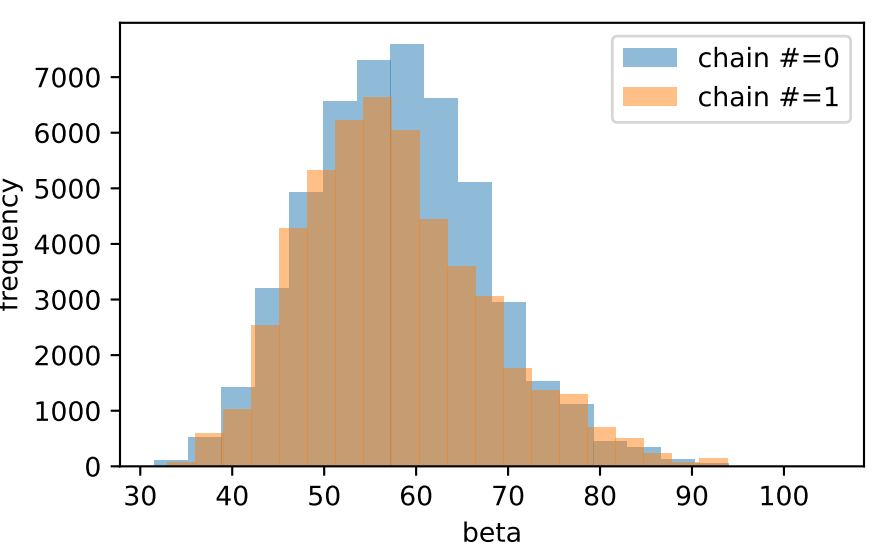

one_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
95
100
105
110
115
120
125
χ^2

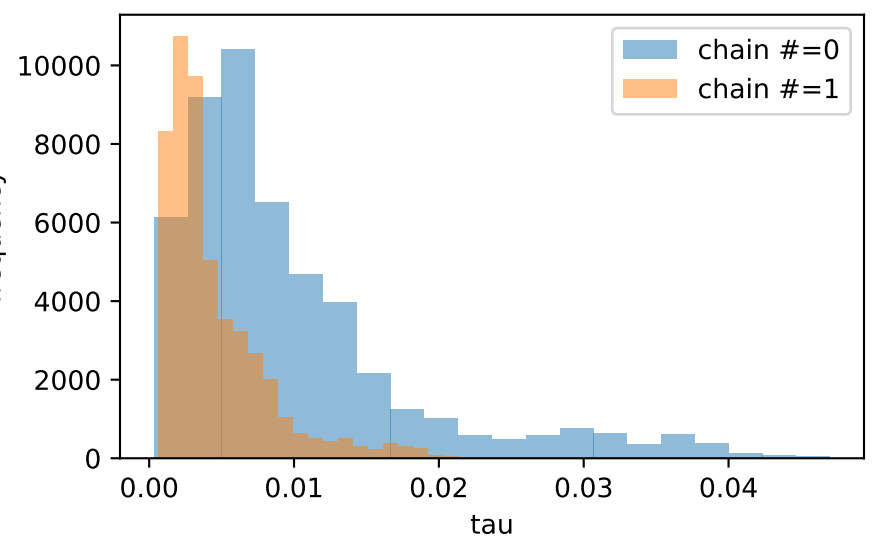

one_i
125
120
115
110
105
100
95
χ^2
0
10000
20000
30000
40000
50000
iteration
chain #=0
chain #=1

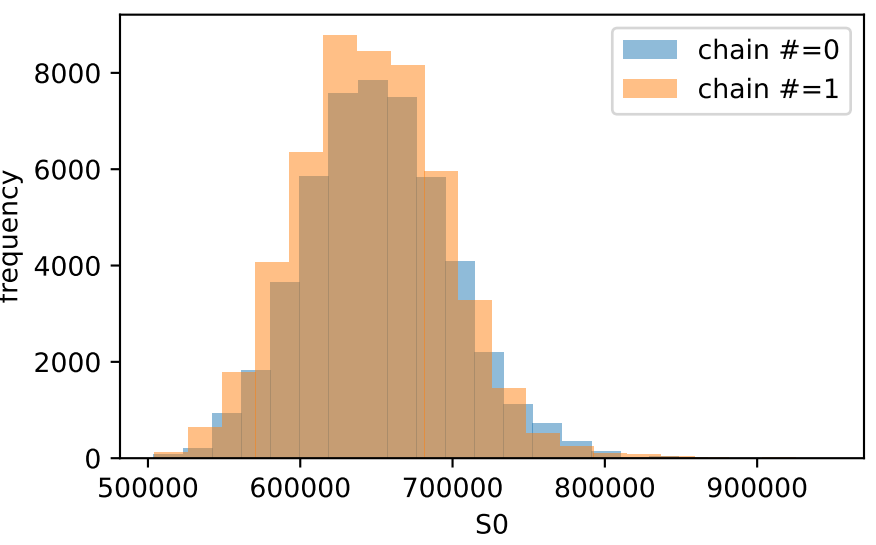
two_i

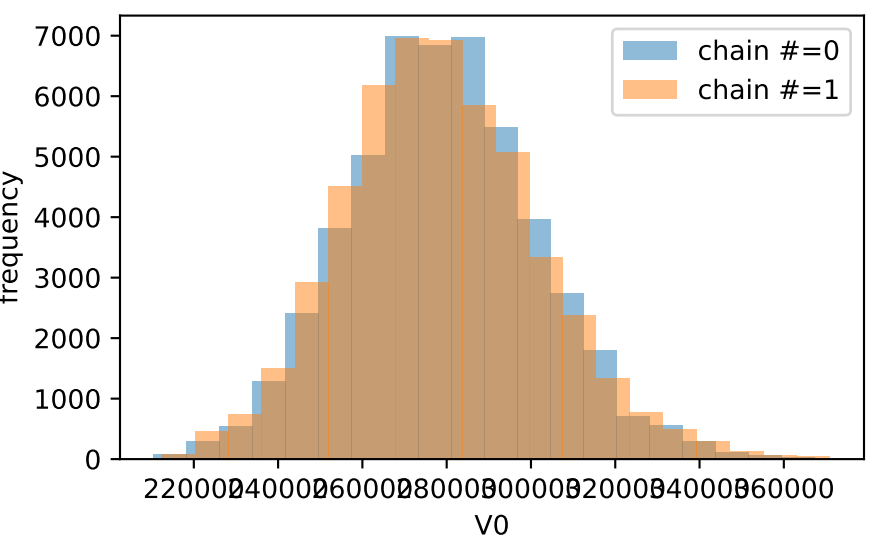

chain #=0
chain #=1
frequency
mu


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

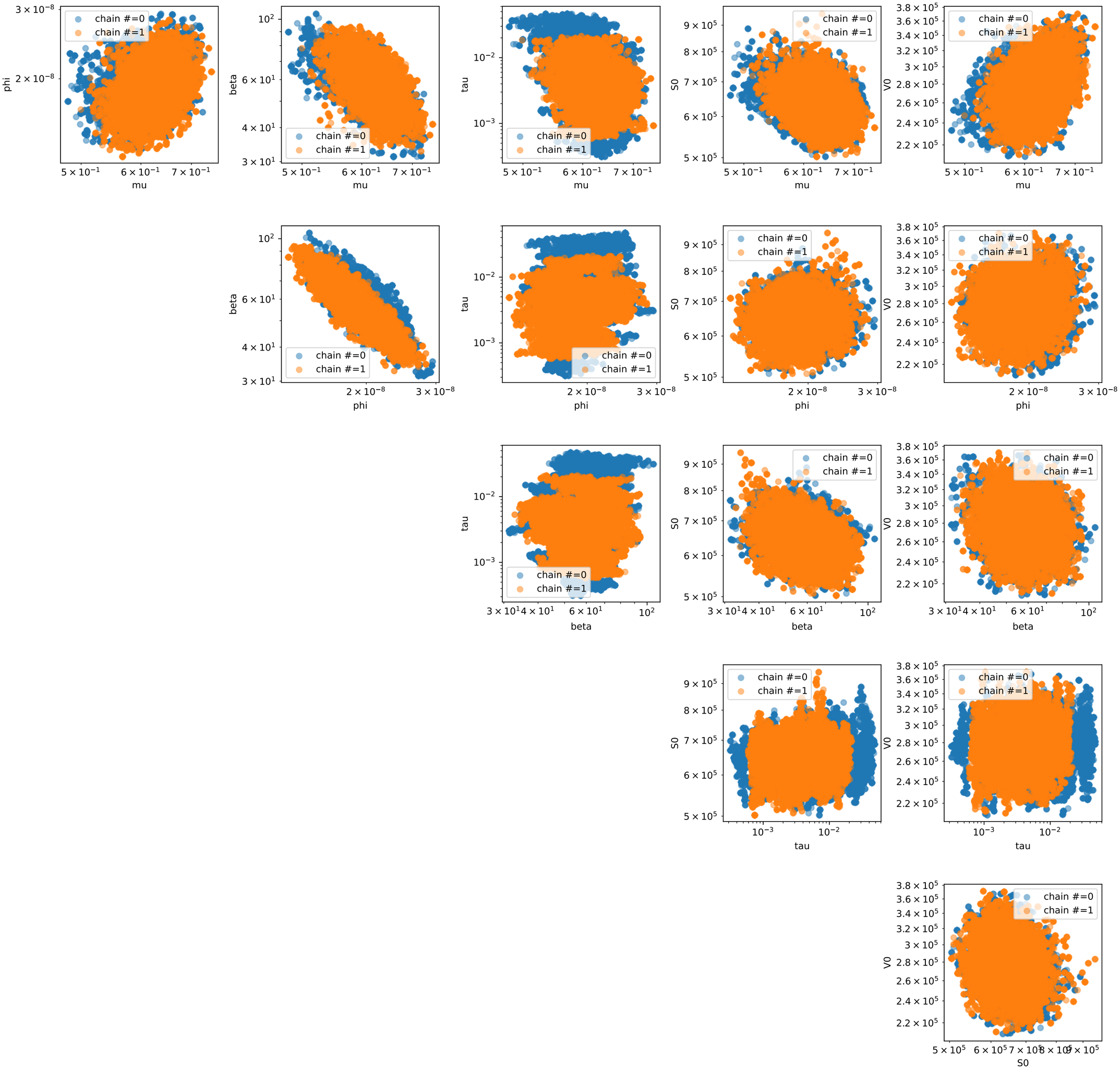

chain #=0
chain #=1
frequency
beta

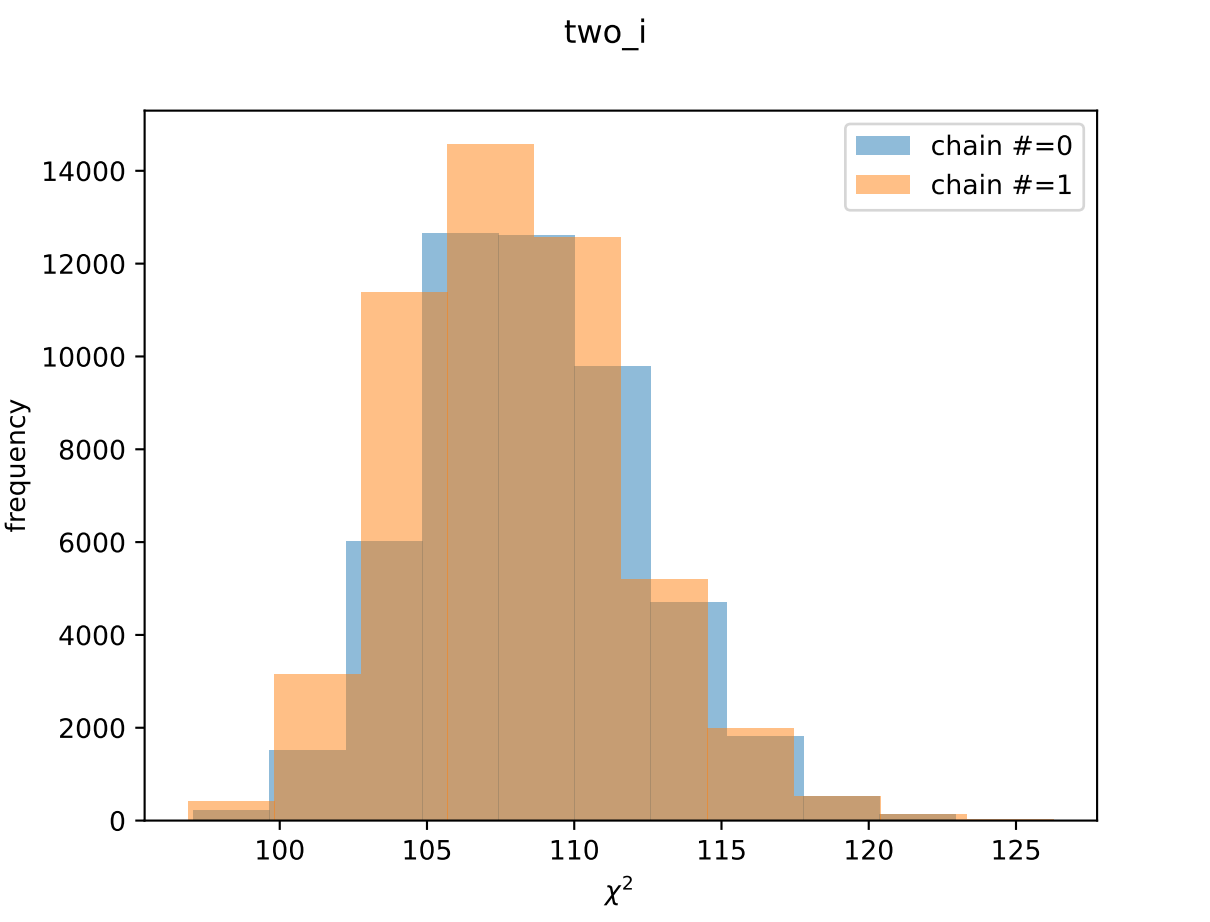

chain #=0
chain #=1
tau

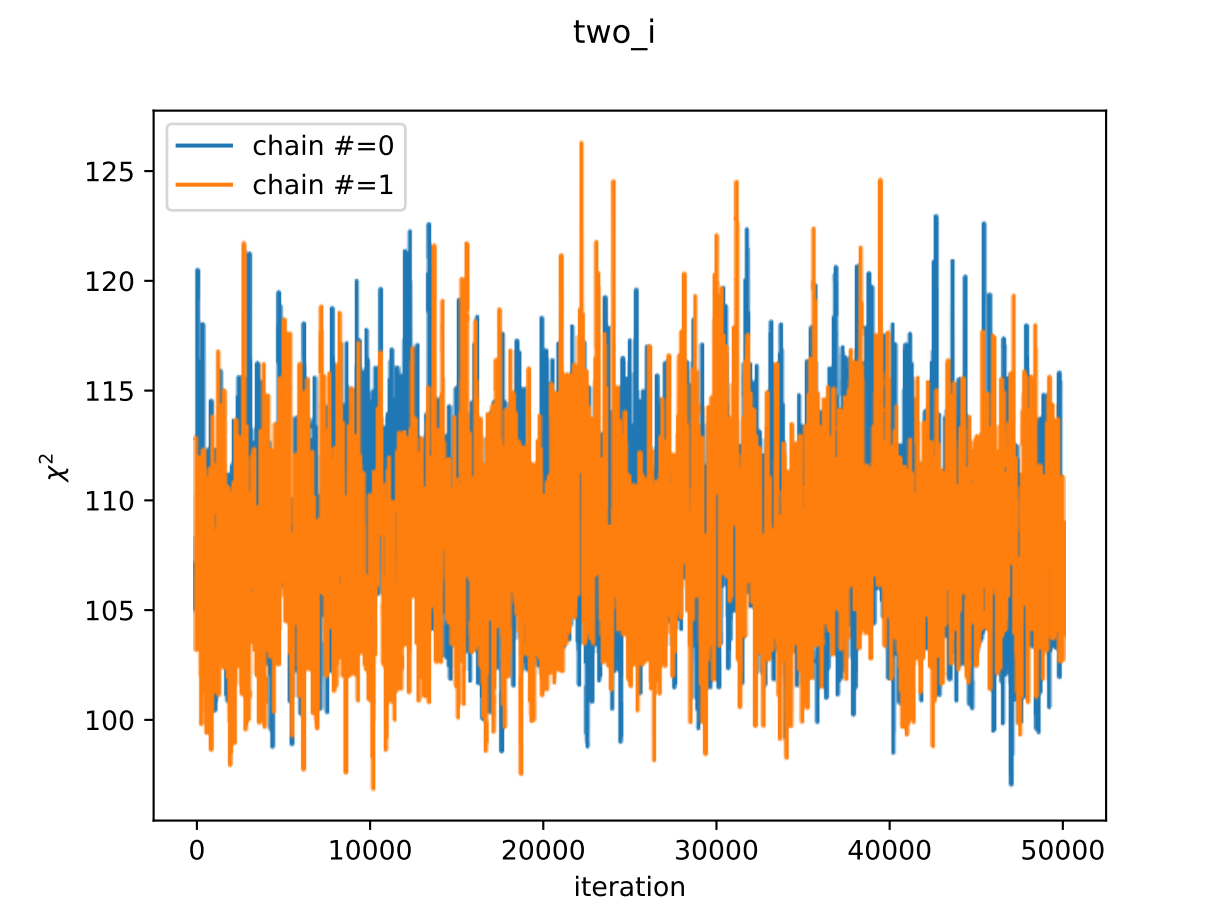

chain #=0
chain #=1
frequency
S0


chain #=0
chain #=1
frequency
V0

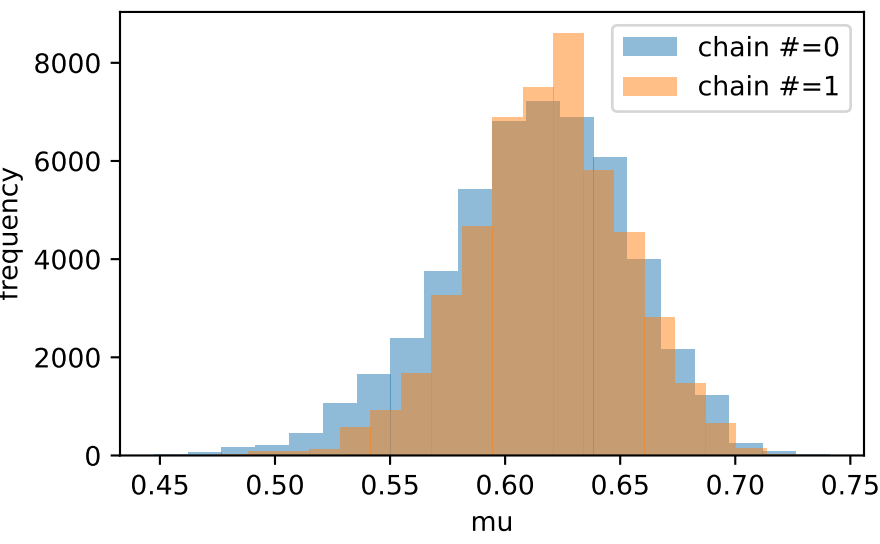
two_i

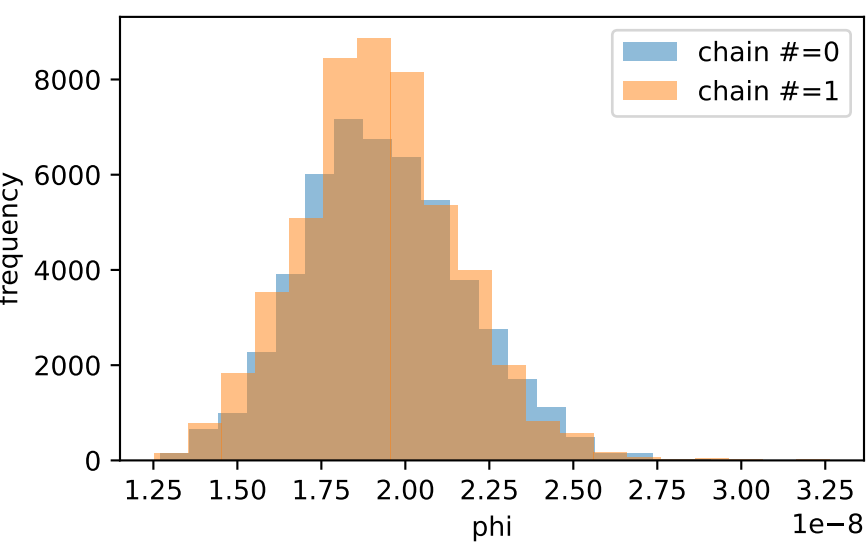


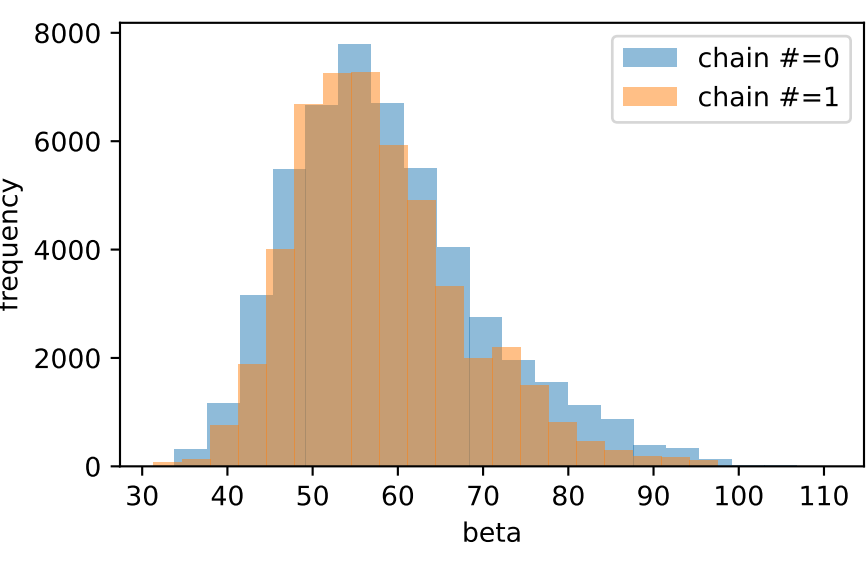

two_i
chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
frequency
100
105
110
115
120
125
χ^2

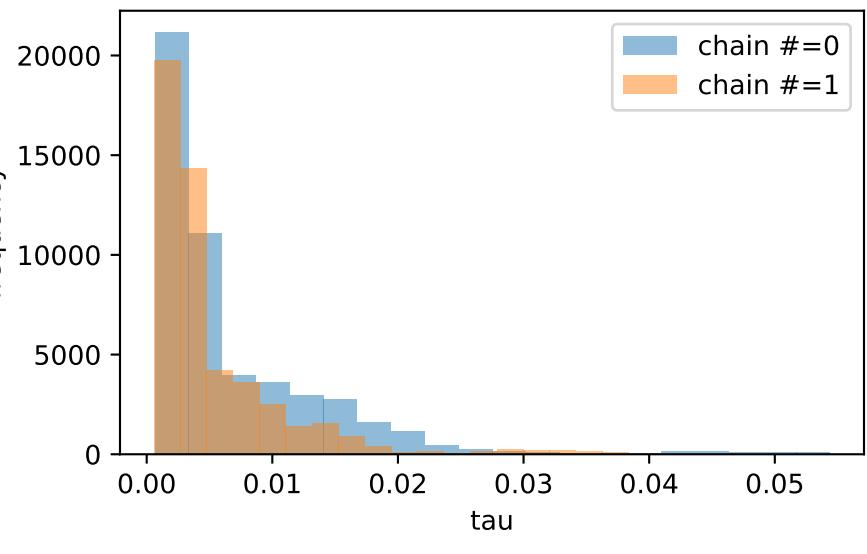

two_i
chain #=0
chain #=1
125
120
115
110
105
100
χ^2
0
10000
20000
30000
40000
50000
iteration

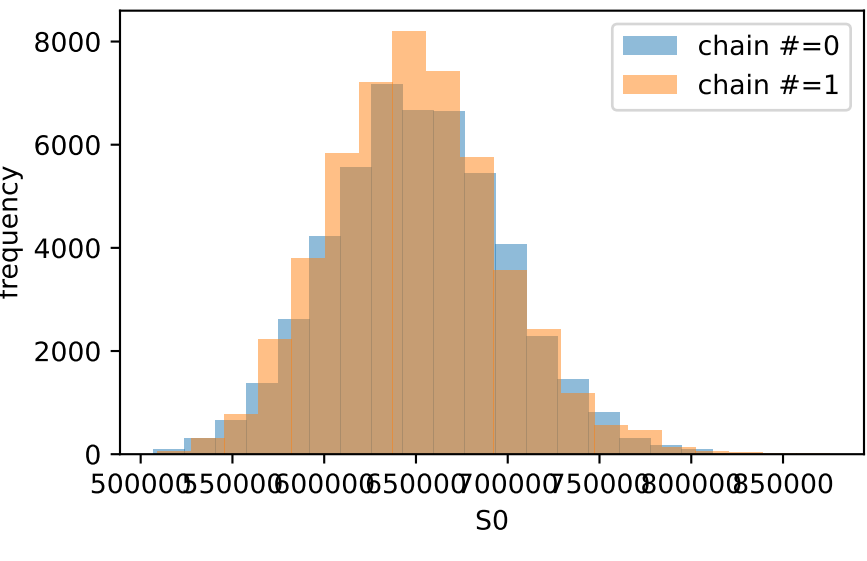
three_i

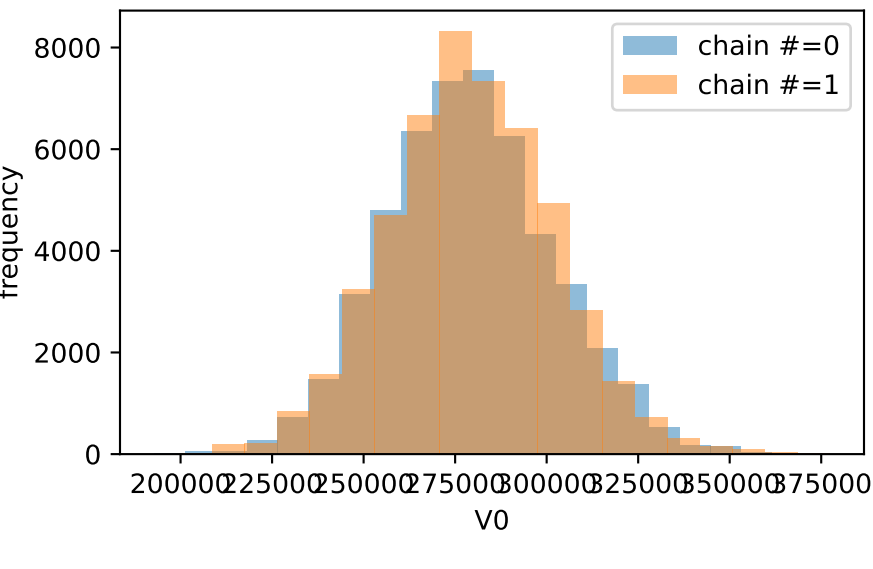

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.45
0.50
0.55
0.60
0.65
0.70
0.75
mu


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
3.25
1e−8
phi

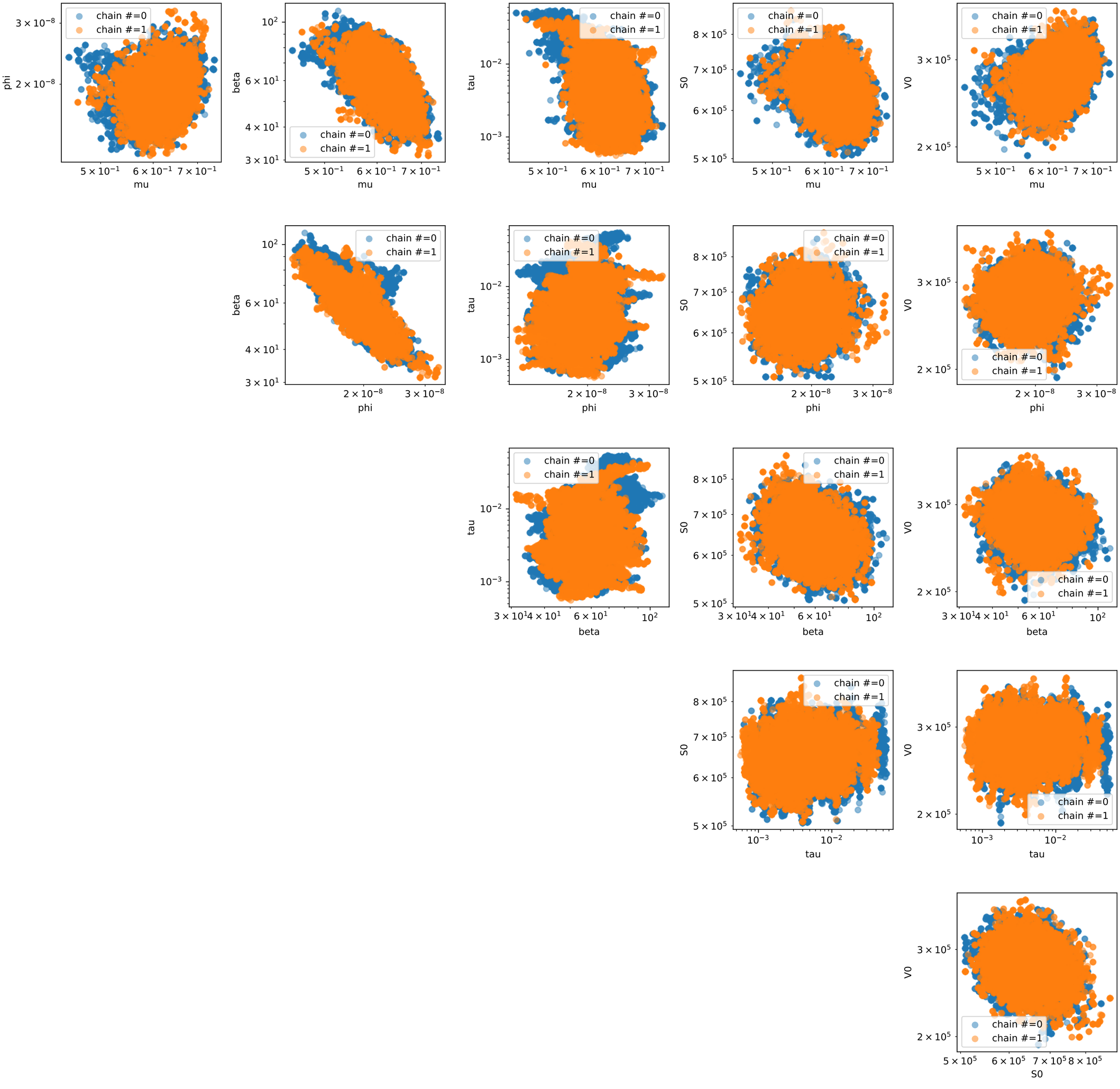

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
30
40
50
60
70
80
90
100
110
beta

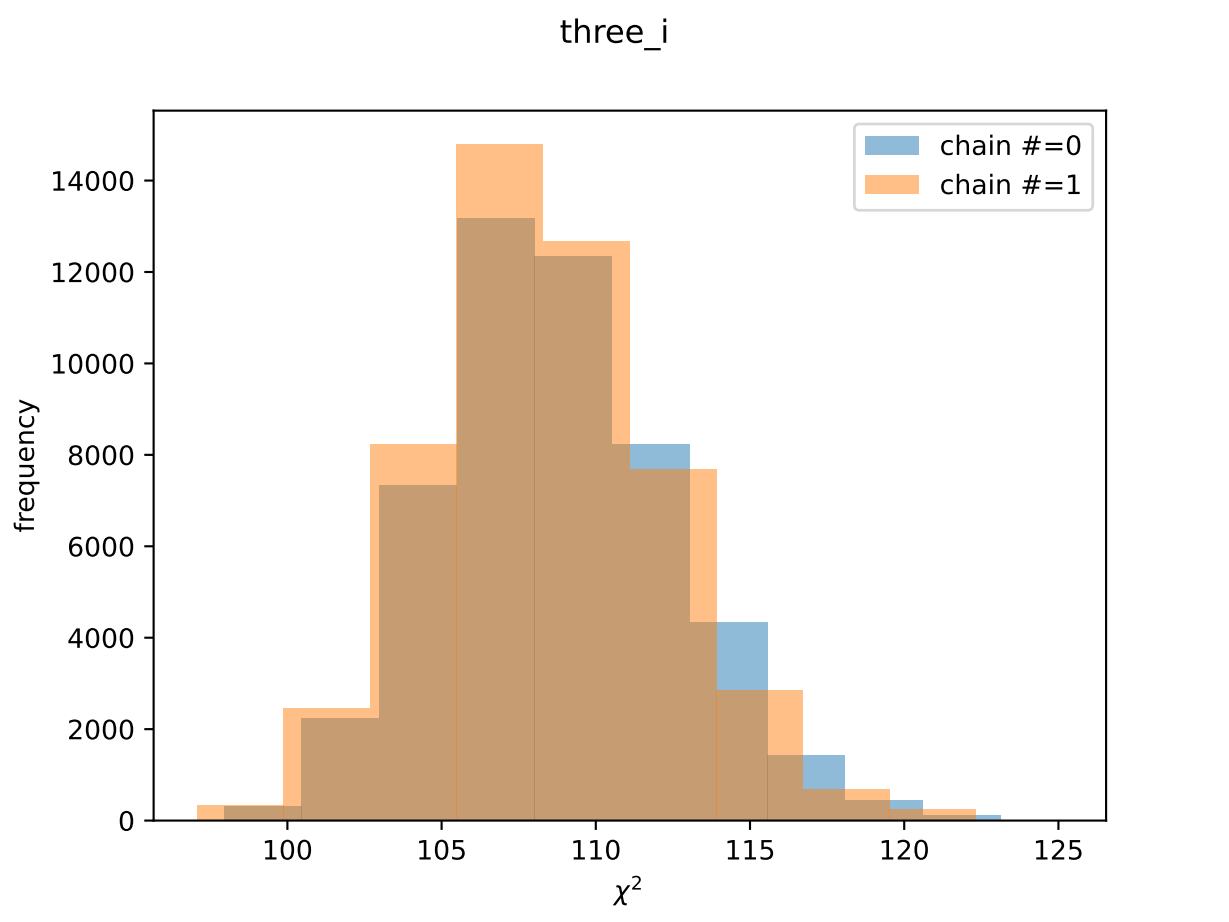

chain #=0
chain #=1
20000
15000
10000
5000
0
0.00
0.01
0.02
0.03
0.04
0.05
tau

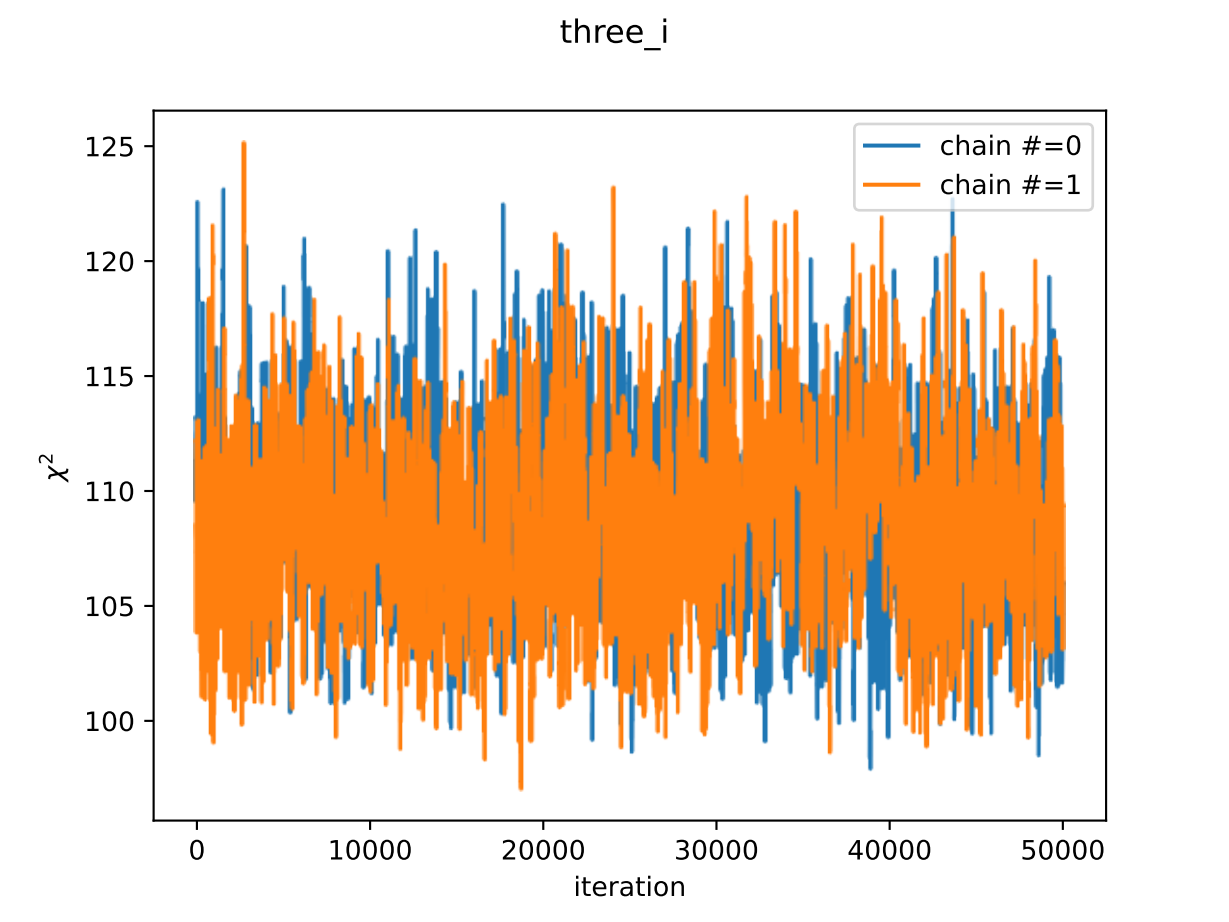

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
500000
550000
600000
650000
700000
750000
800000
850000
S0


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
200000
225000
250000
275000
300000
325000
350000
375000
V0

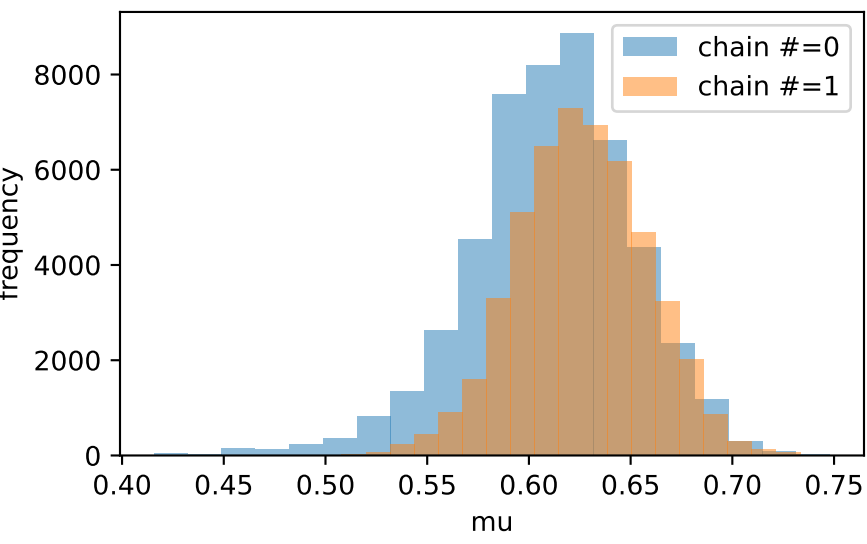
three_i

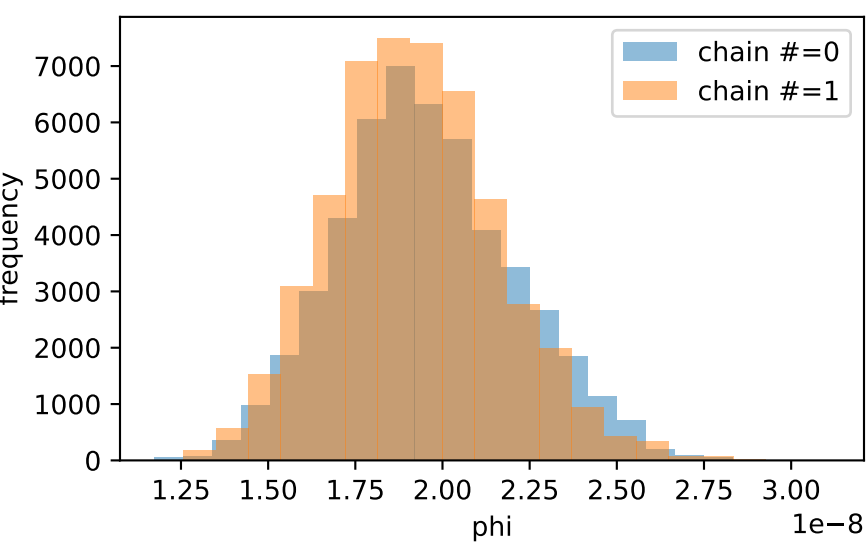


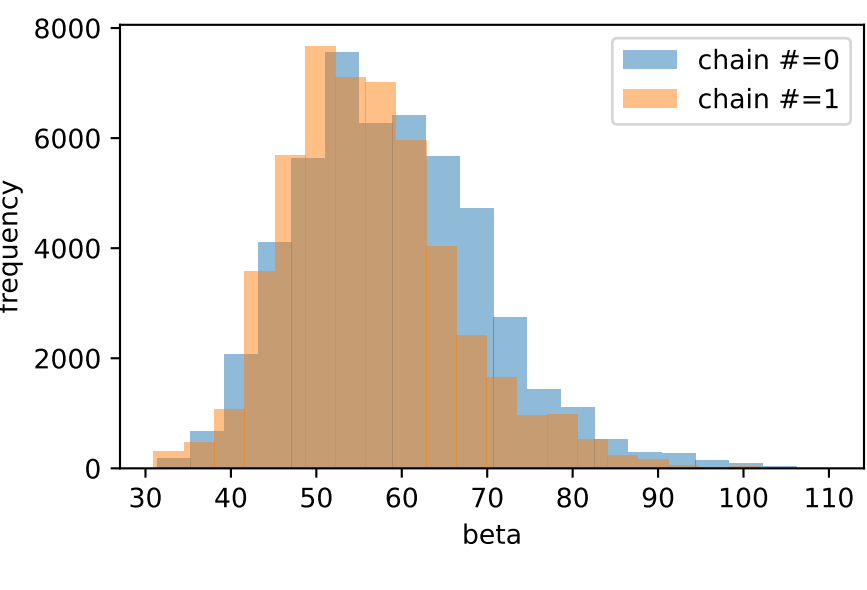

three_i
chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
frequency
100
105
110
115
120
125
χ^2

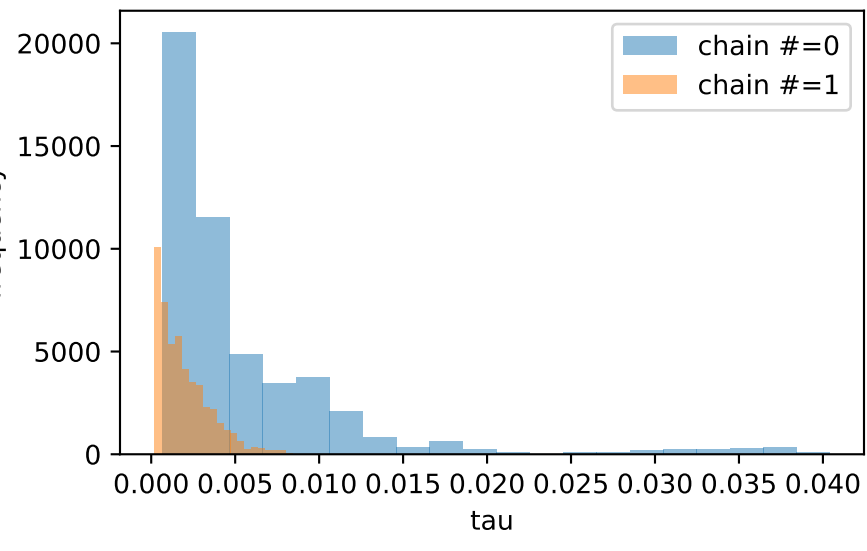

three_i
chain #=0
chain #=1
125
120
115
110
105
100
χ^2
0
10000
20000
30000
40000
50000
iteration

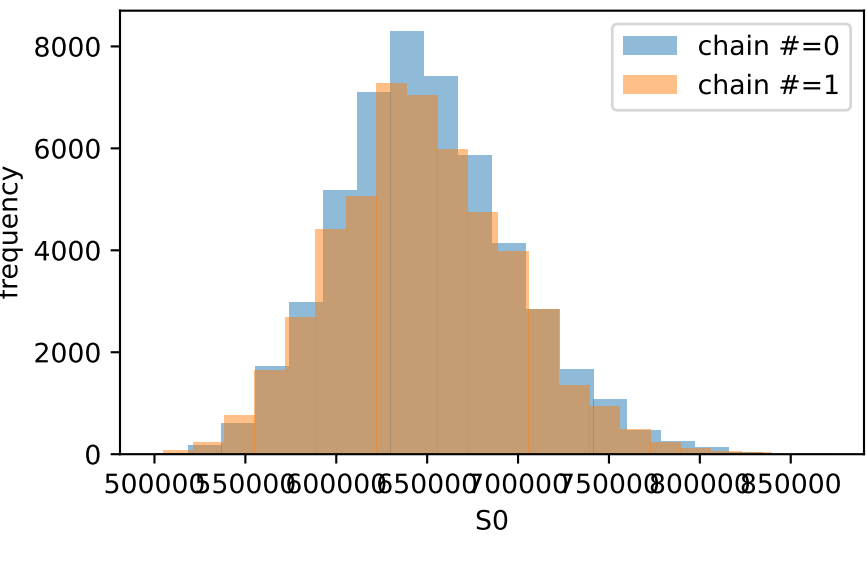
four_i

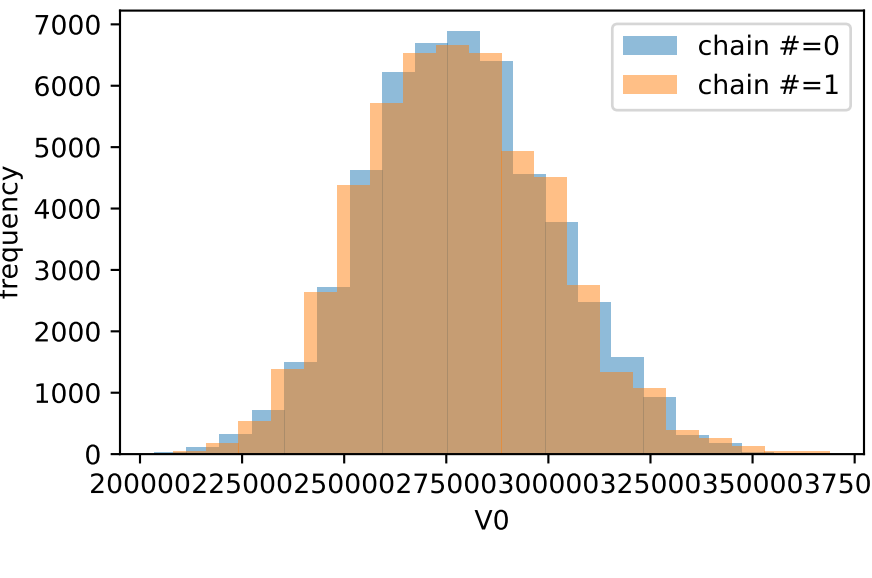

chain #=0
chain #=1
frequency
mu


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

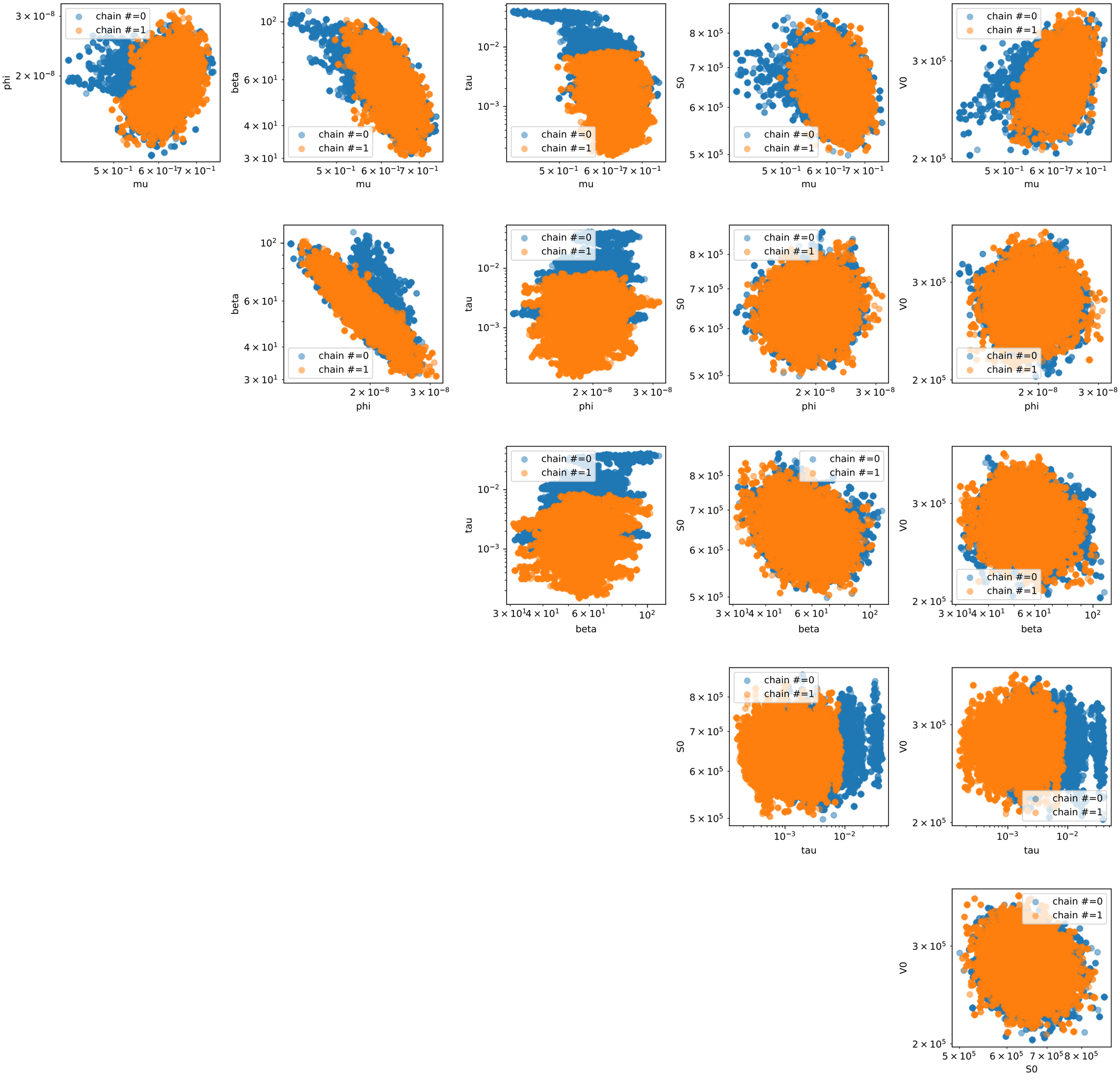

chain #=0
chain #=1
frequency
beta

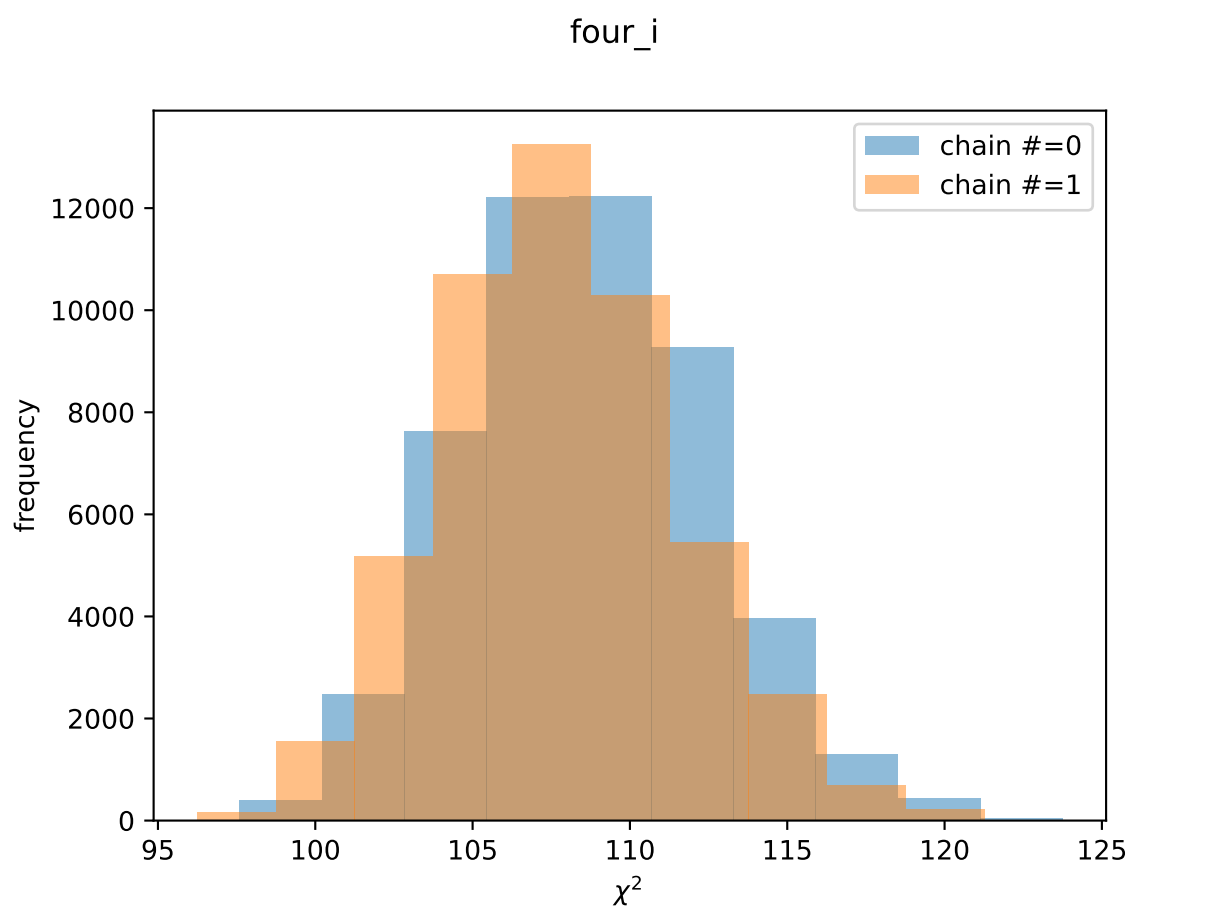

chain #=0
chain #=1
tau

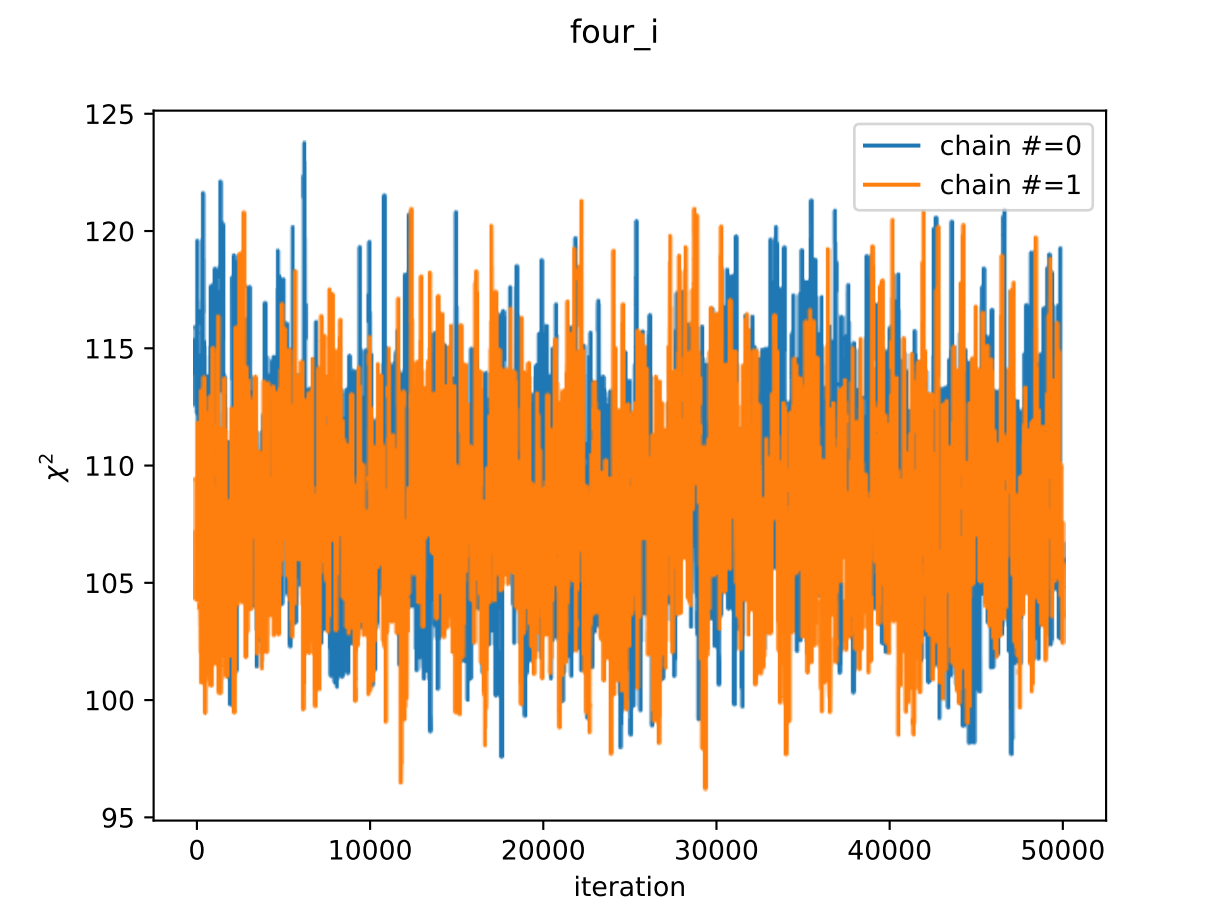

chain #=0
chain #=1
frequency
S0


chain #=0
chain #=1
frequency
V0

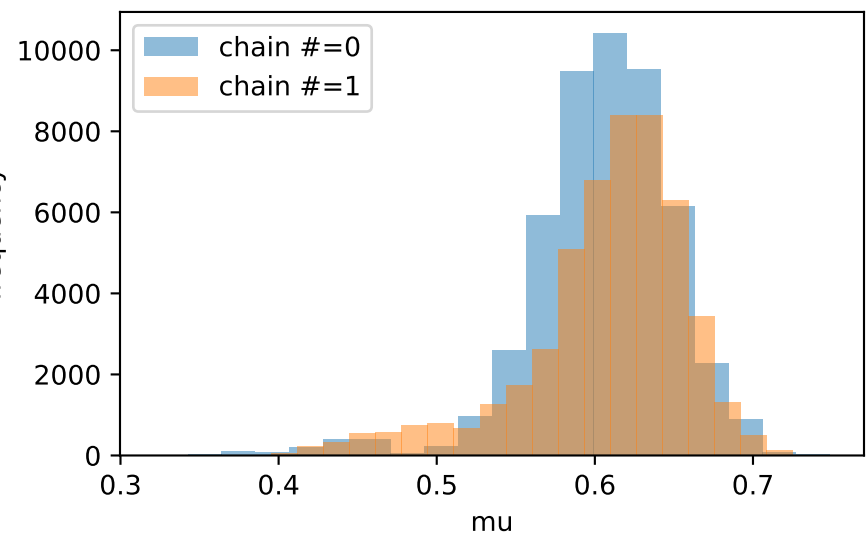
four_i

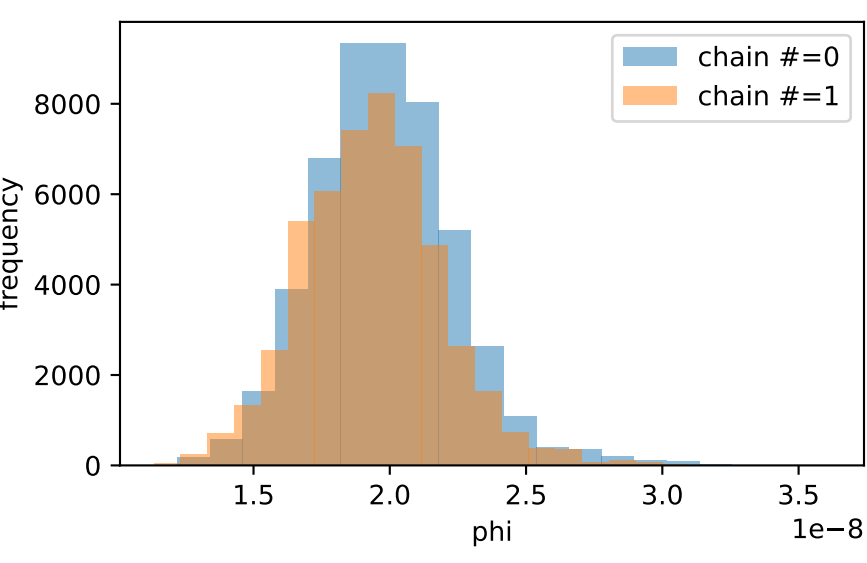

phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
mu
phi
beta
tau
S0
V0
chain #=0
chain #=1

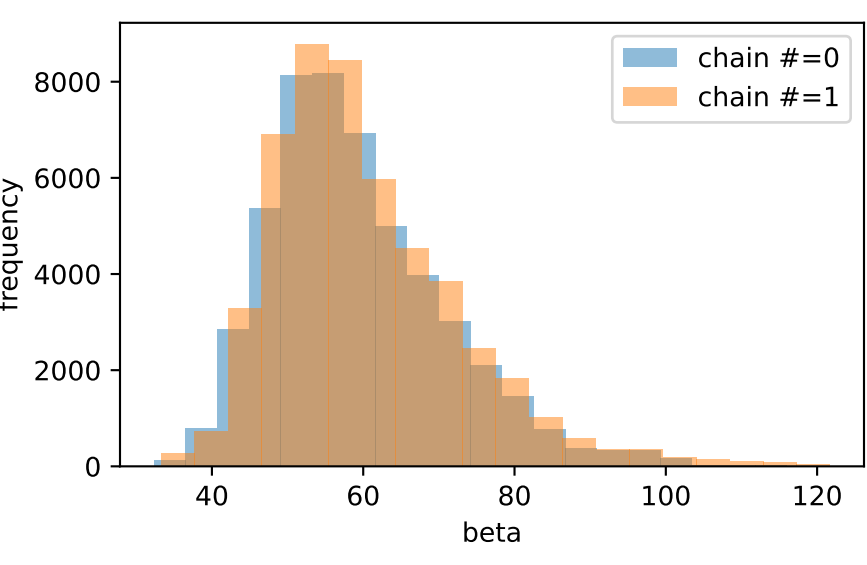

four_i
chain #=0
chain #=1
frequency
0
2000
4000
6000
8000
10000
12000
95
100
105
110
115
120
125
χ^2

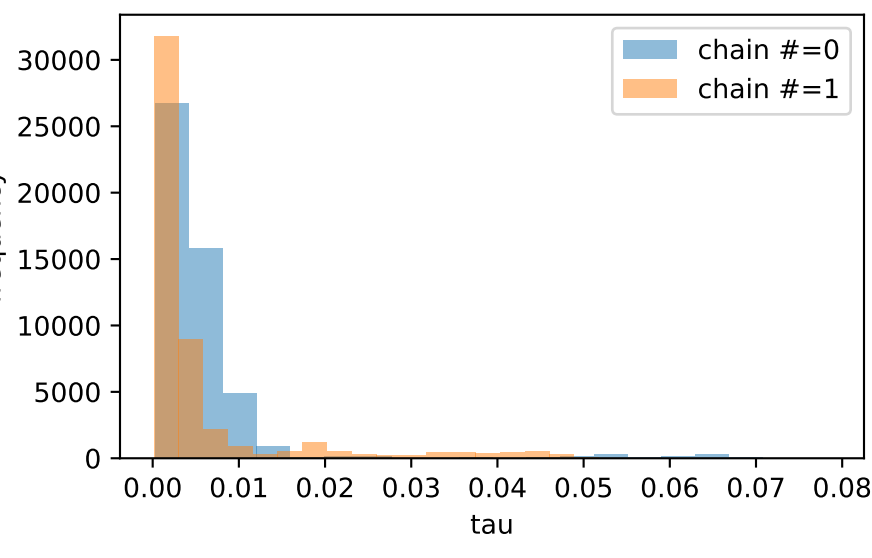

four_i
chain #=0
chain #=1
125
120
115
110
105
100
95
χ^2
0
10000
20000
30000
40000
50000
iteration

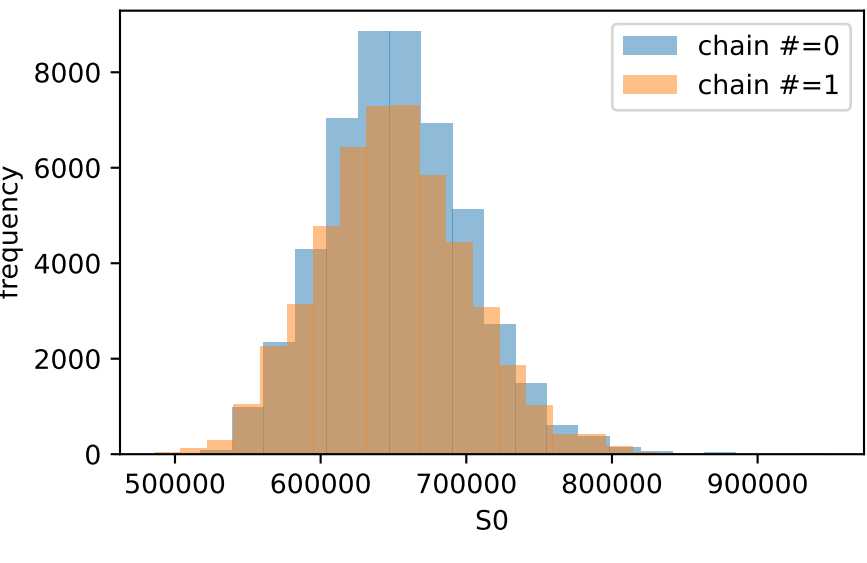
five_i

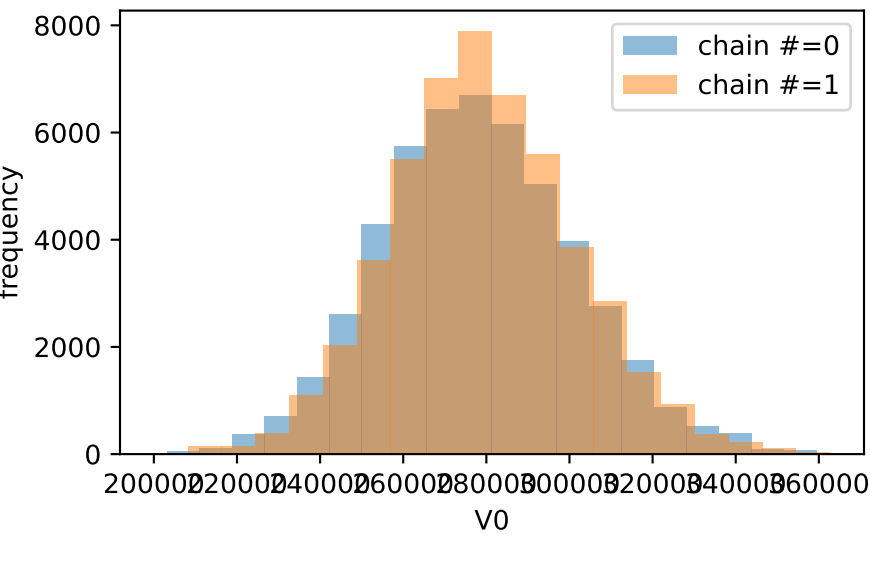

chain #=0
chain #=1
10000
8000
6000
4000
2000
0
0.3
0.4
0.5
0.6
0.7
mu


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
1.5
2.0
2.5
3.0
3.5
phi
1e−8

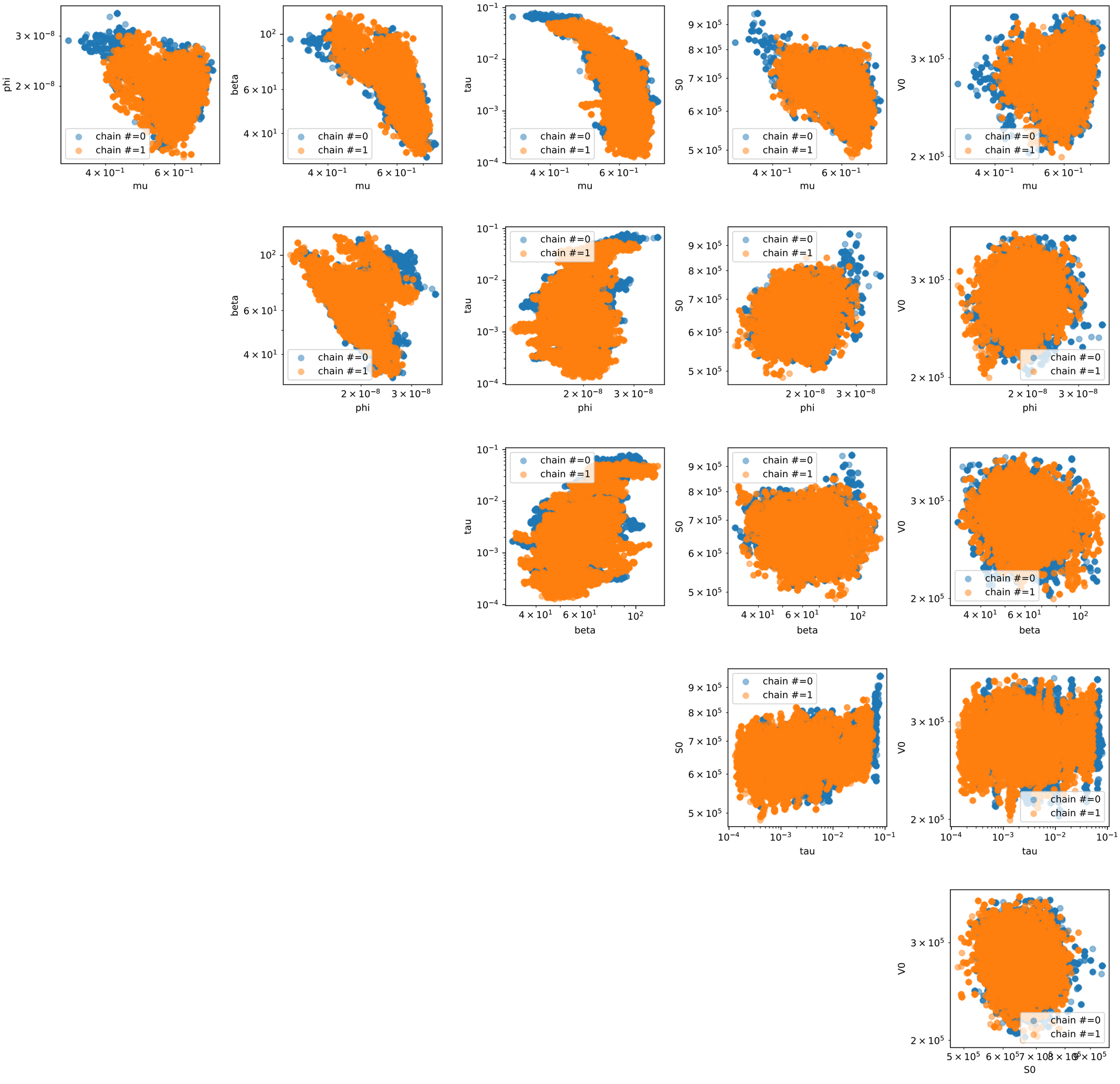

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
40
60
80
100
120
beta

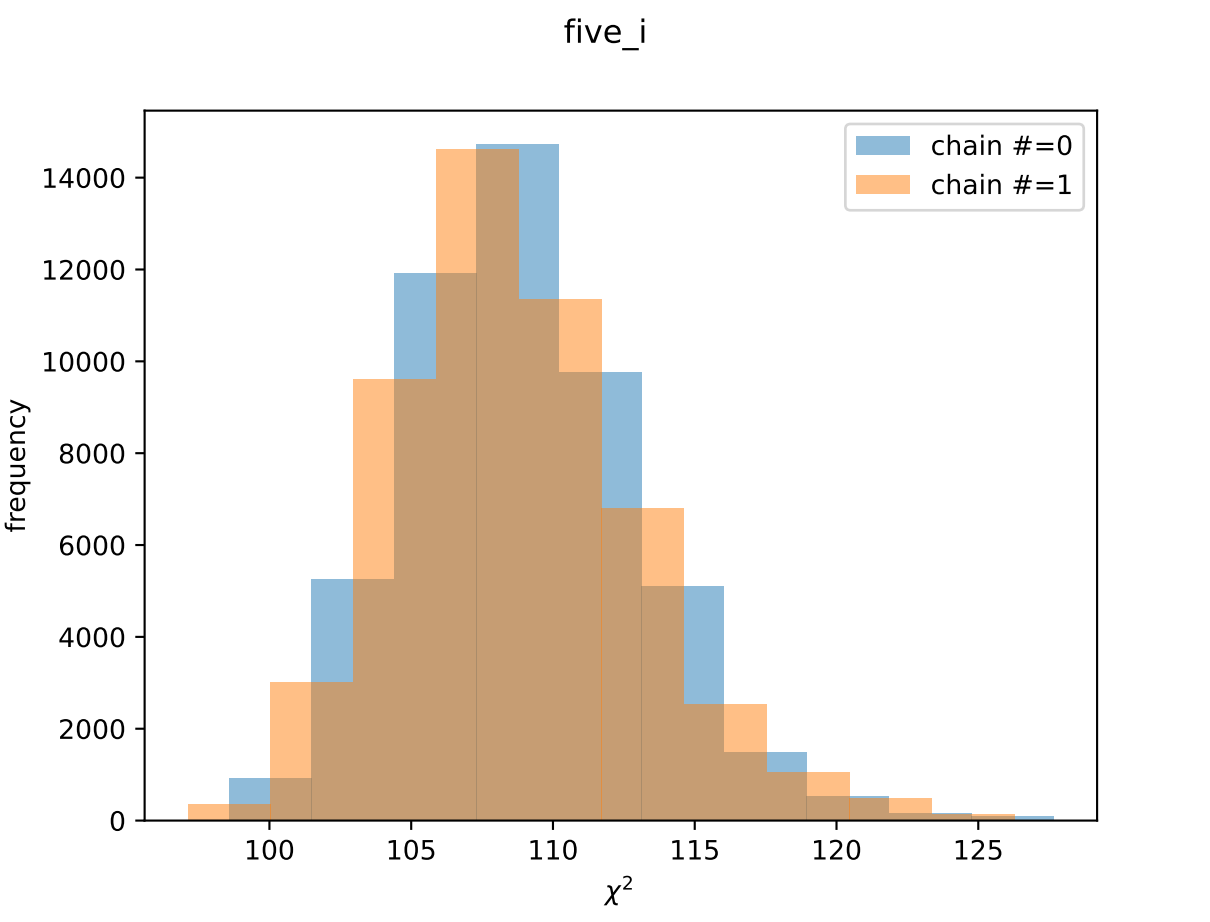

chain #=0
chain #=1
30000
25000
20000
15000
10000
5000
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
tau

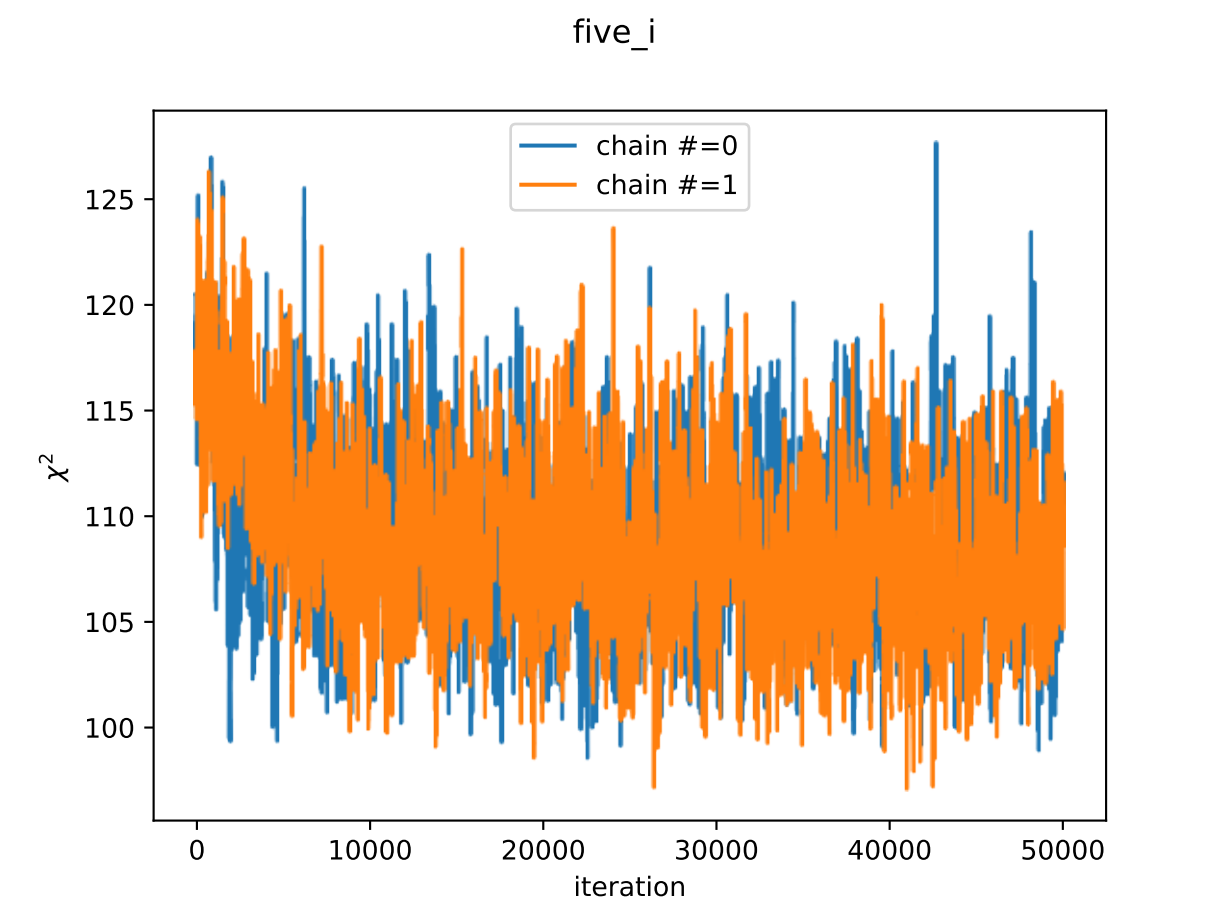

chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
500000
600000
700000
800000
900000
S0


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
V0

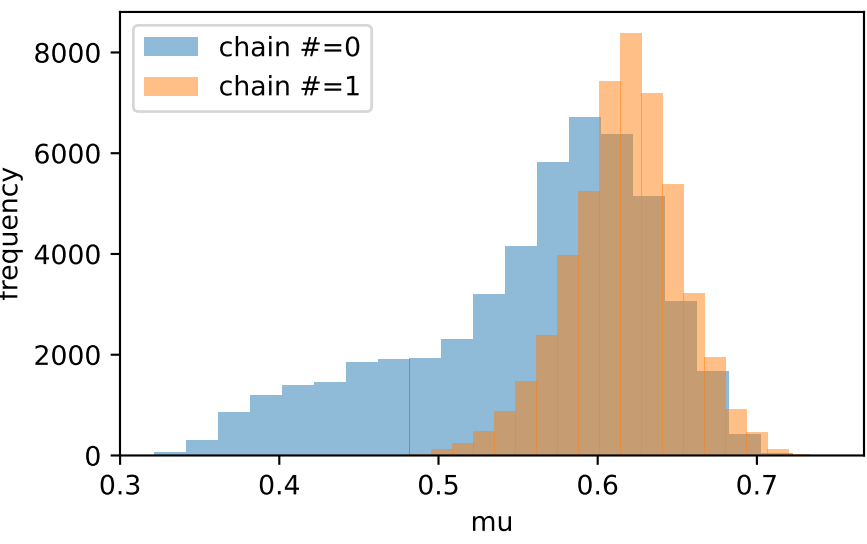
five_i

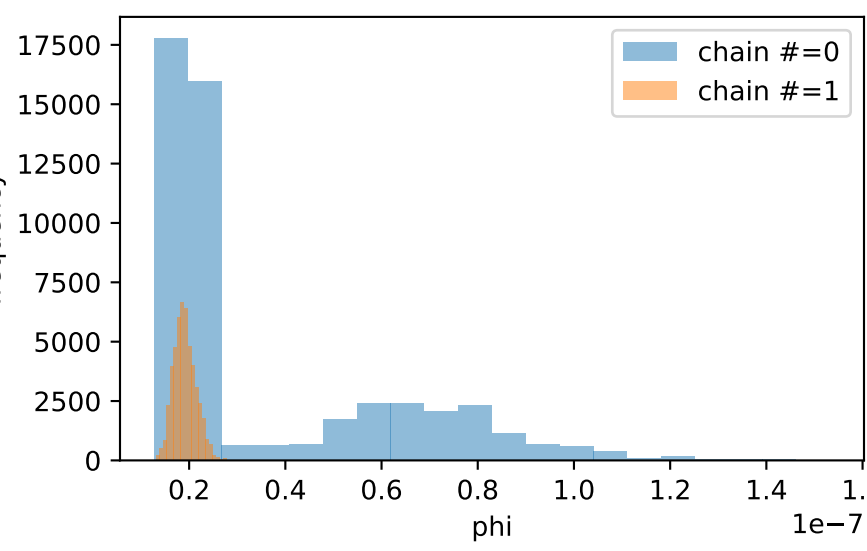


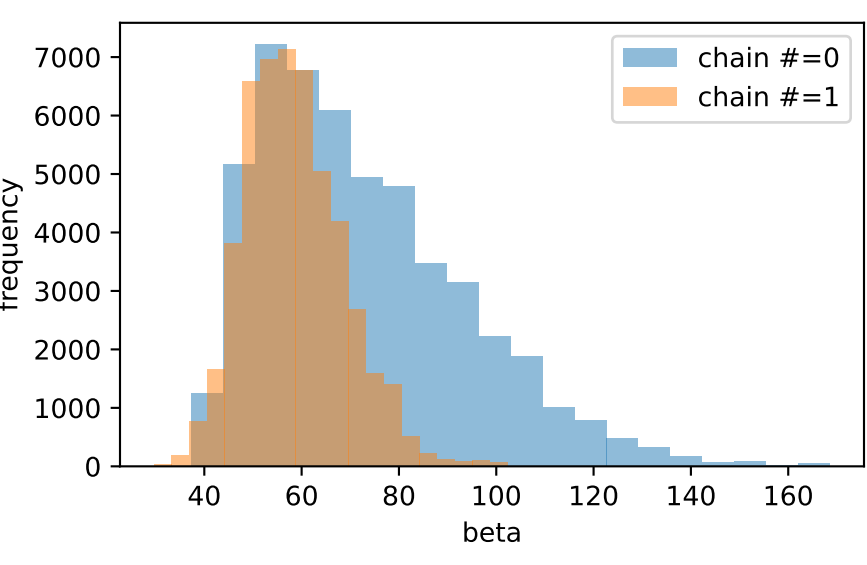

five_i
chain #=0
chain #=1
frequency
0
2000
4000
6000
8000
10000
12000
14000
100
105
110
115
120
125
χ^2

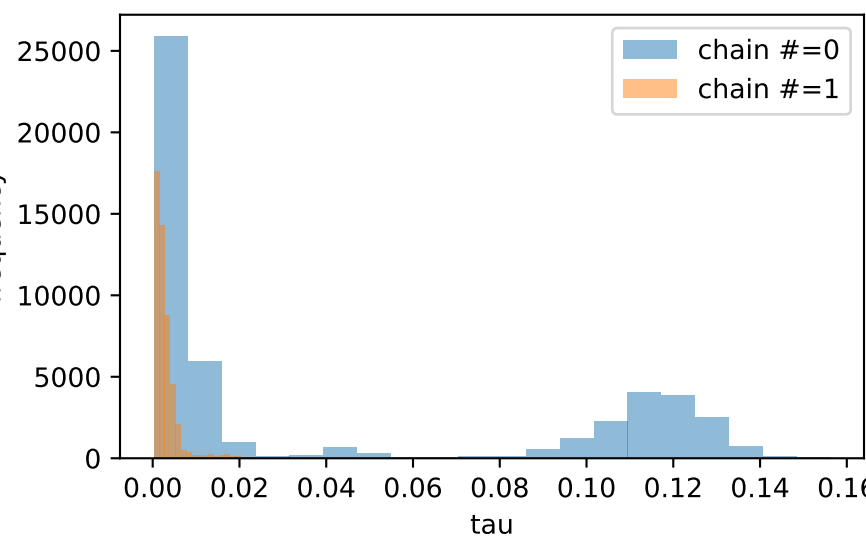

five_i
chain #=0
chain #=1
125
120
115
110
105
100
χ^2
0
10000
20000
30000
40000
50000
iteration

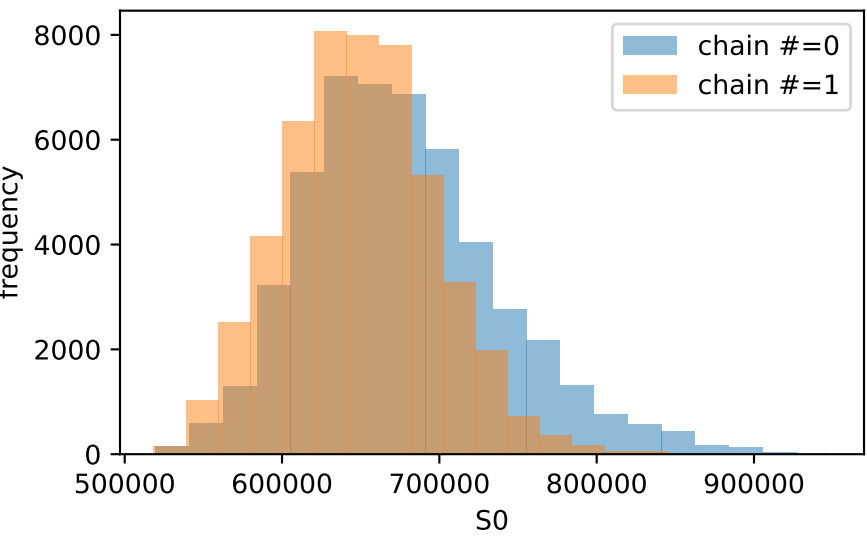
six_i

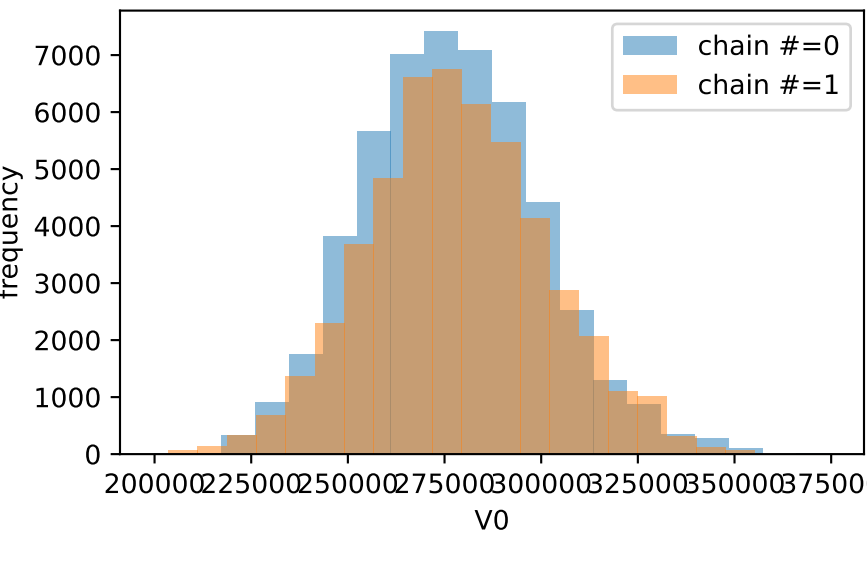

chain #=0
chain #=1
frequency
mu


chain #=0
chain #=1
phi
1e−7

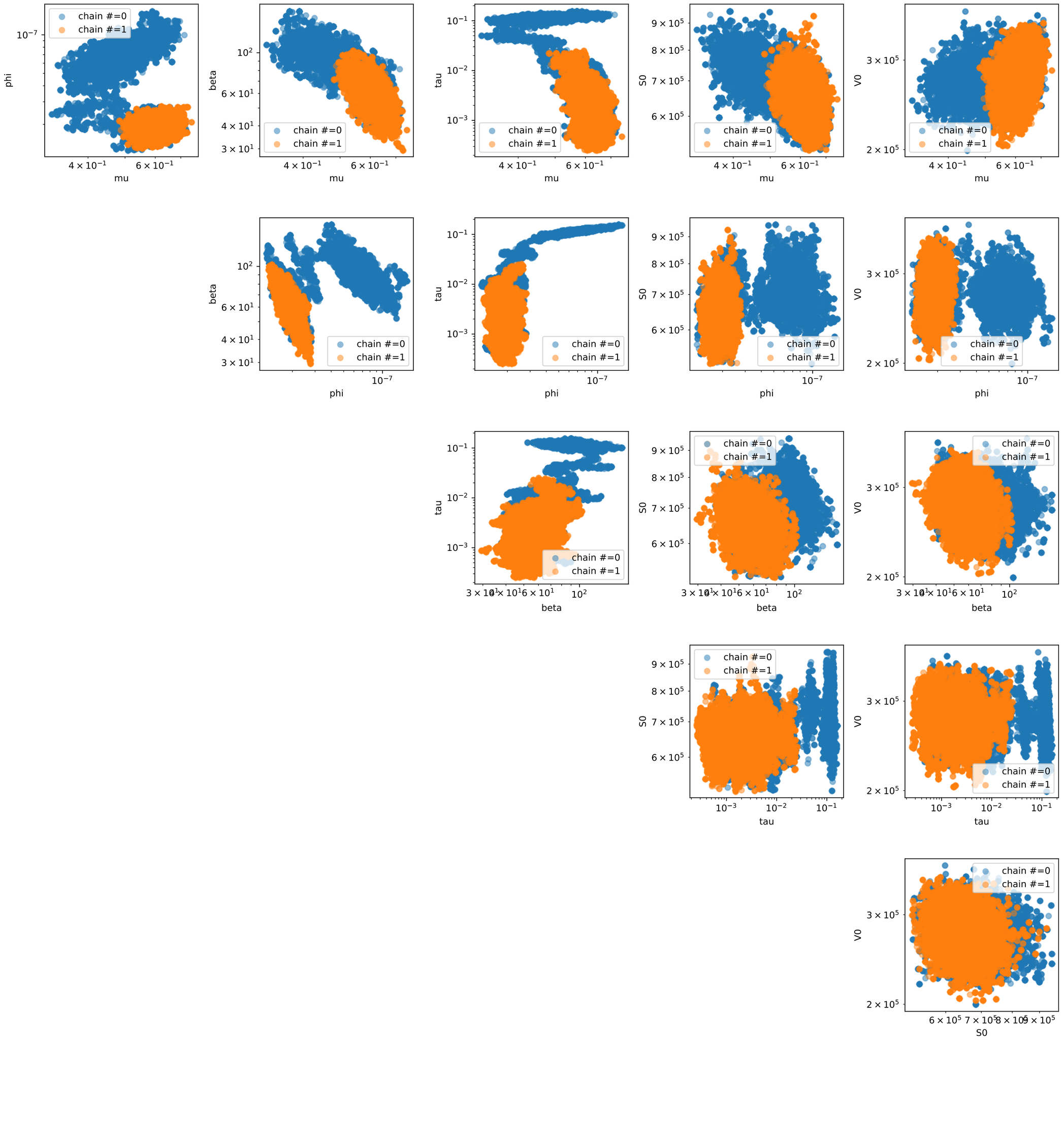

chain #=0
chain #=1
frequency
beta

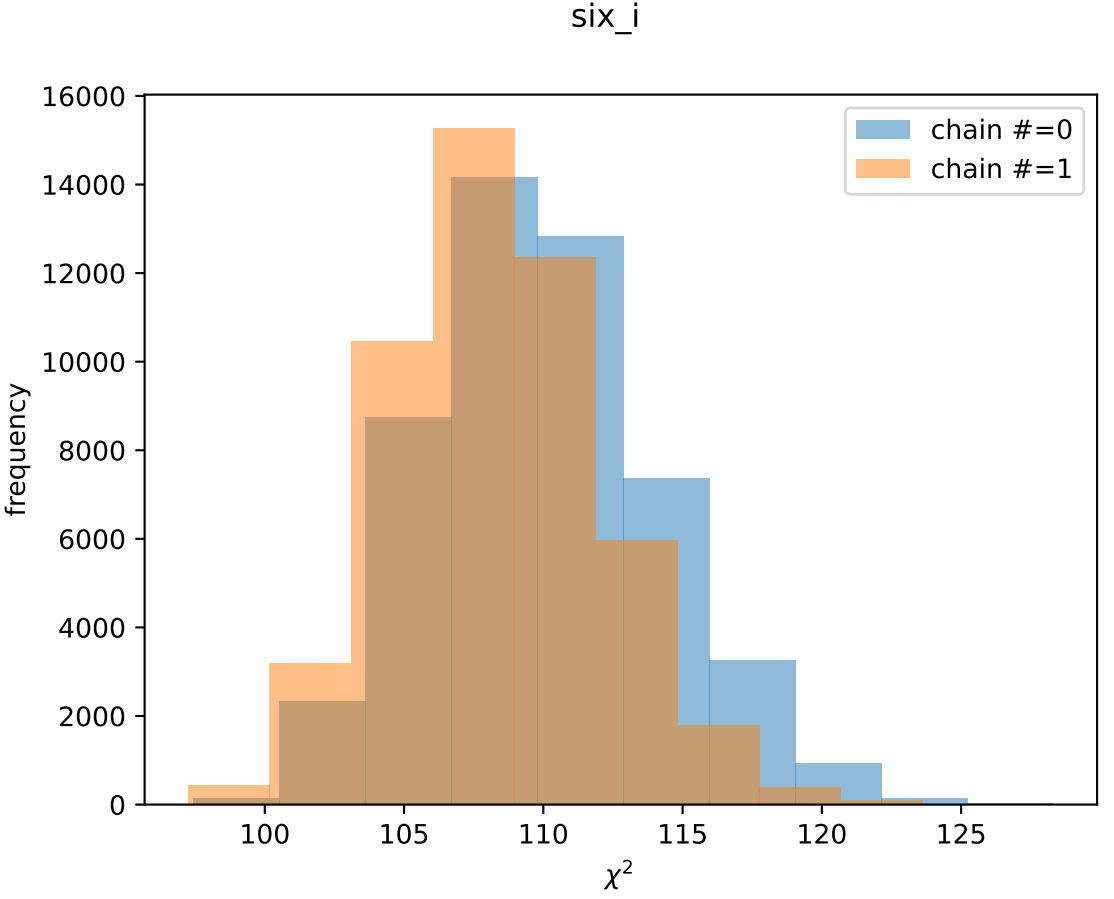

chain #=0
chain #=1
tau

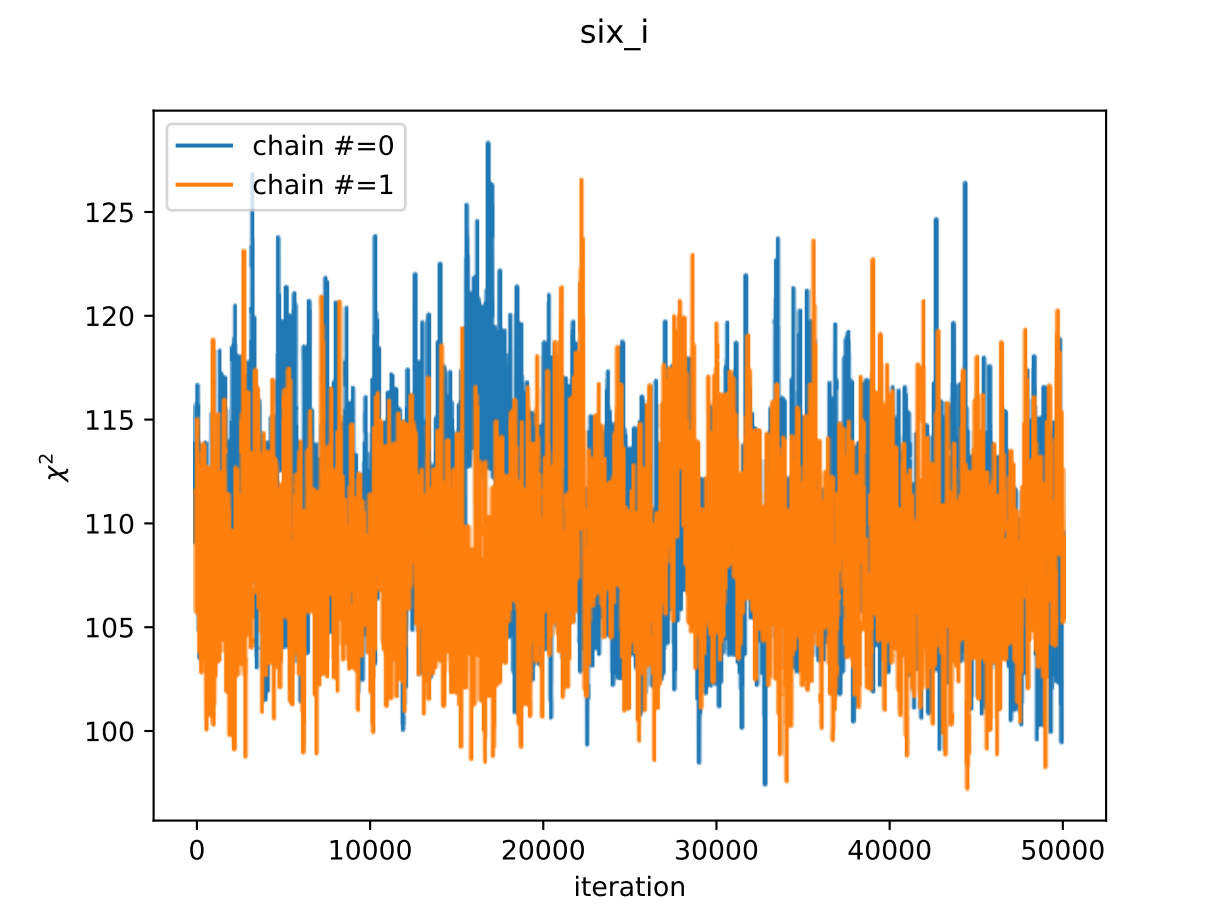

chain #=0
chain #=1
frequency
S0


chain #=0
chain #=1
frequency
V0

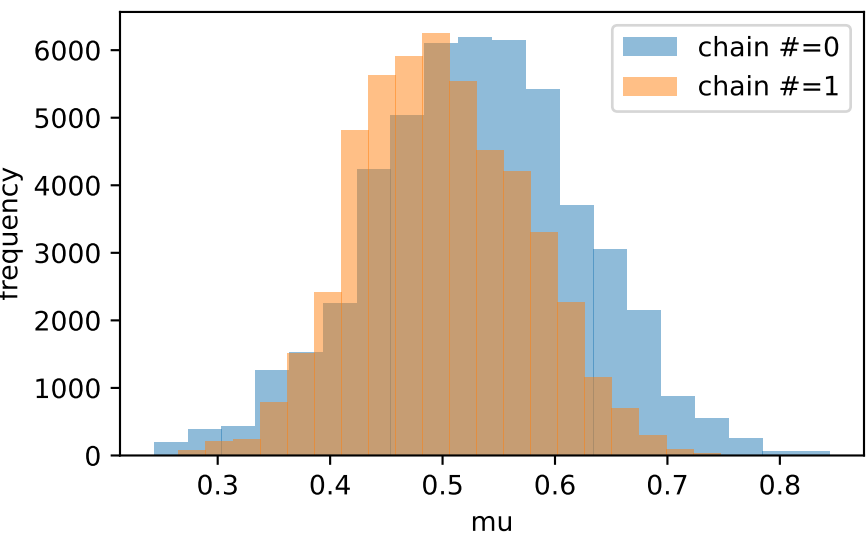
six_i

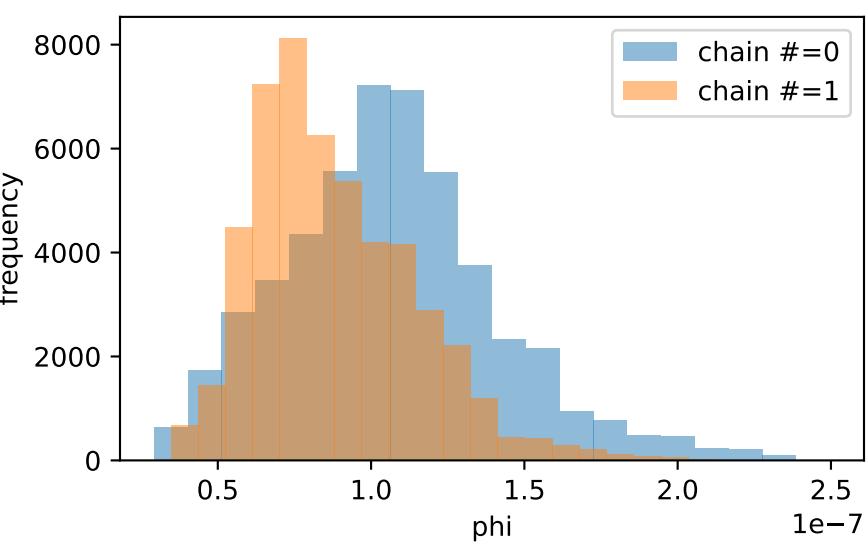


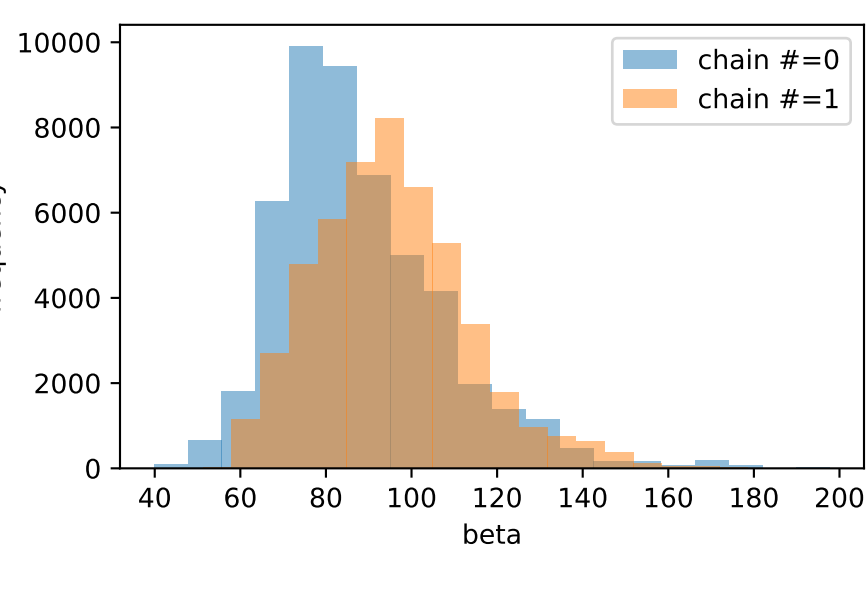

six_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
100
105
110
115
120
125
χ^2

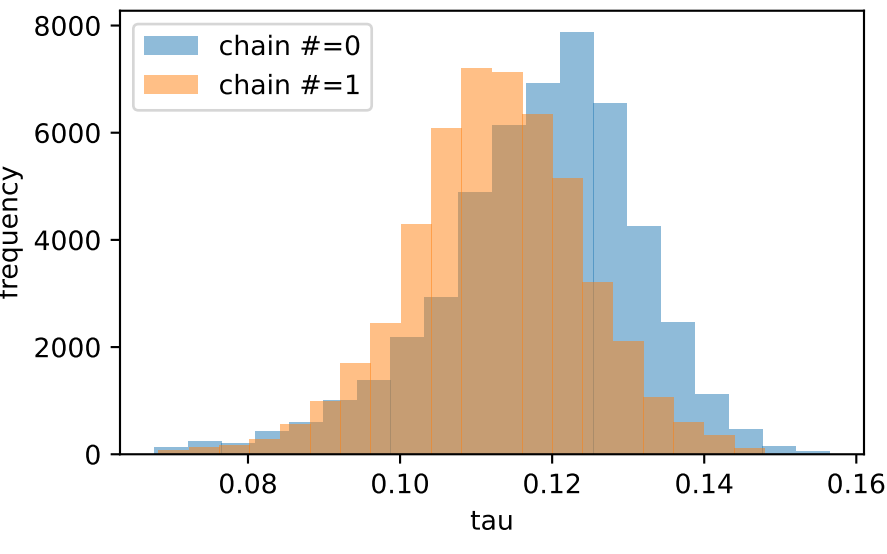

six_i
chain #=0
chain #=1
125
120
115
110
105
100
χ^2
0
10000
20000
30000
40000
50000
iteration

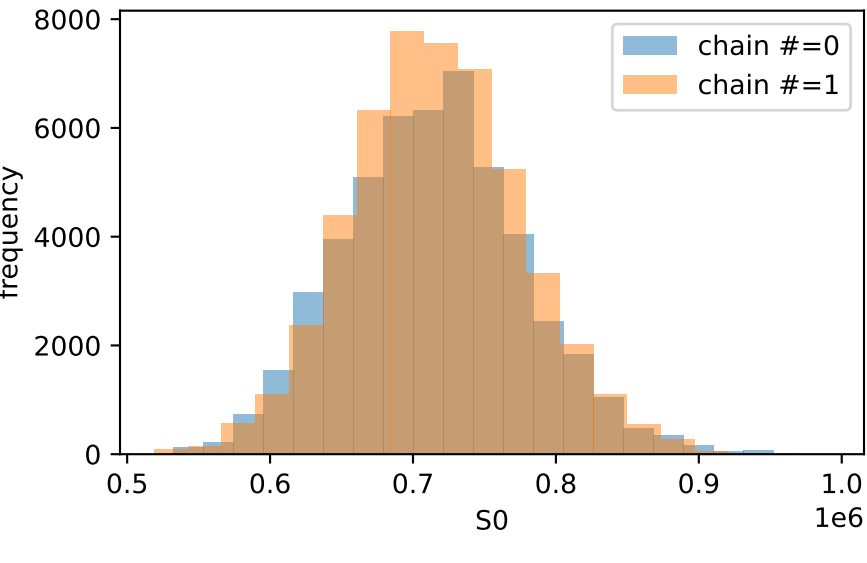
seven_i

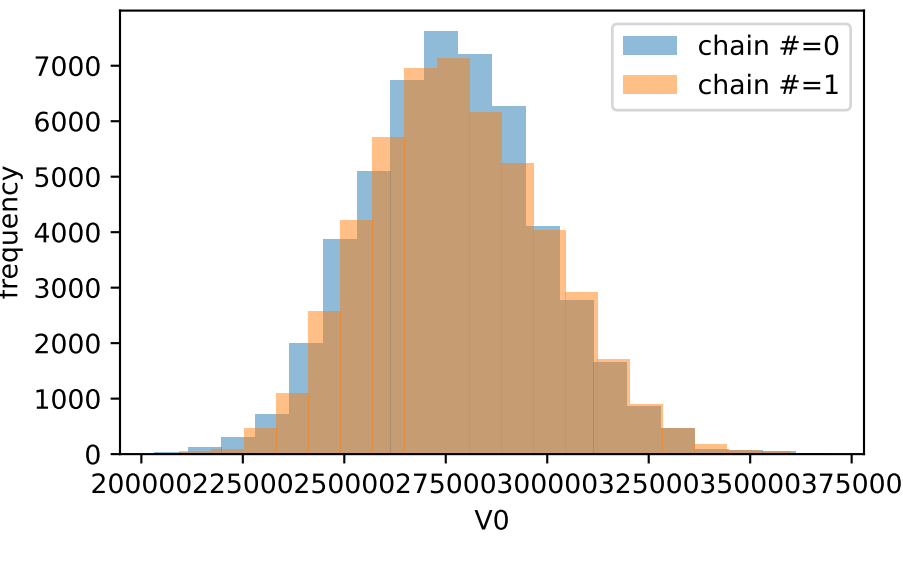

chain #=0
chain #=1
frequency
mu


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

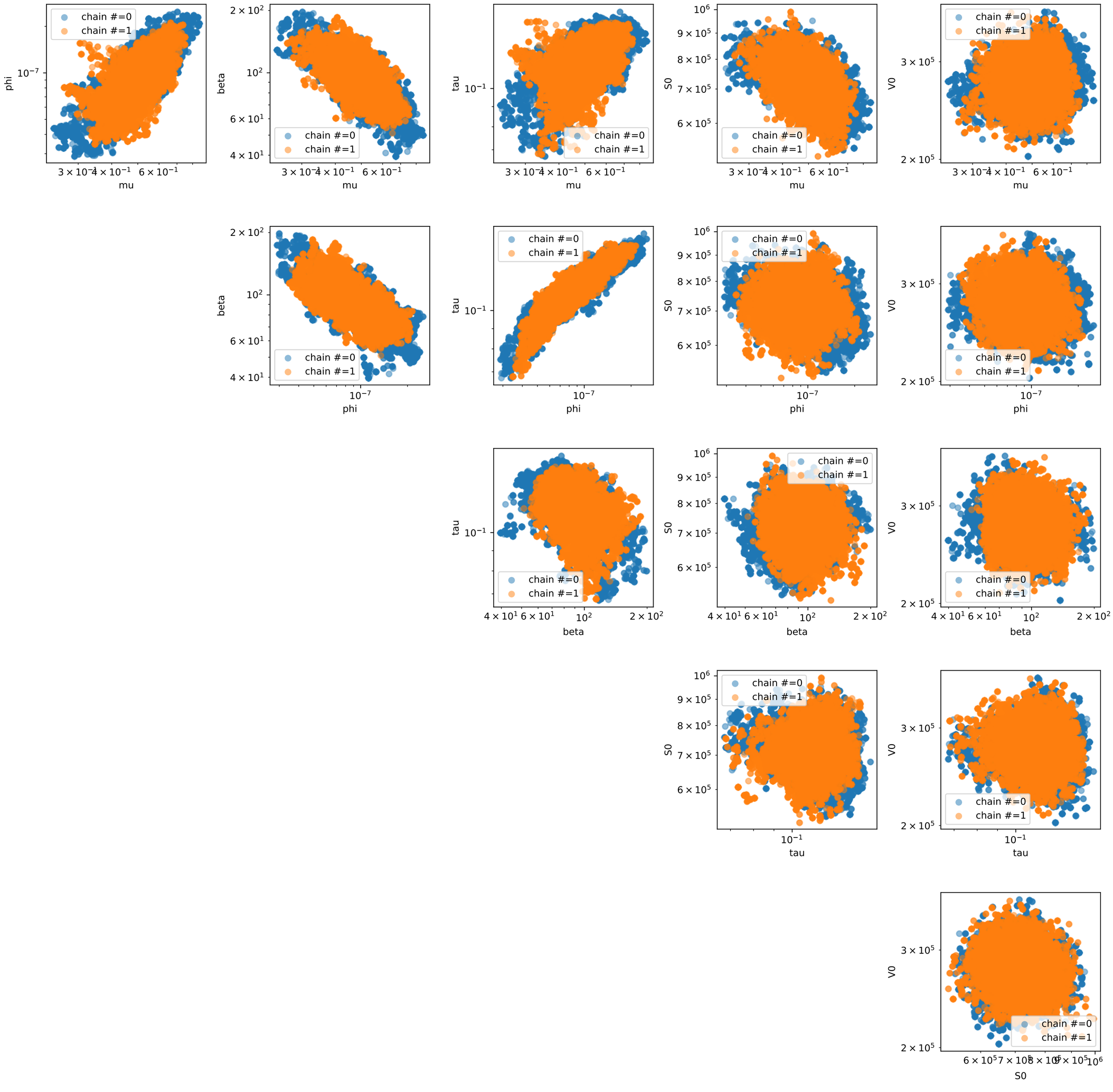

chain #=0
chain #=1
beta

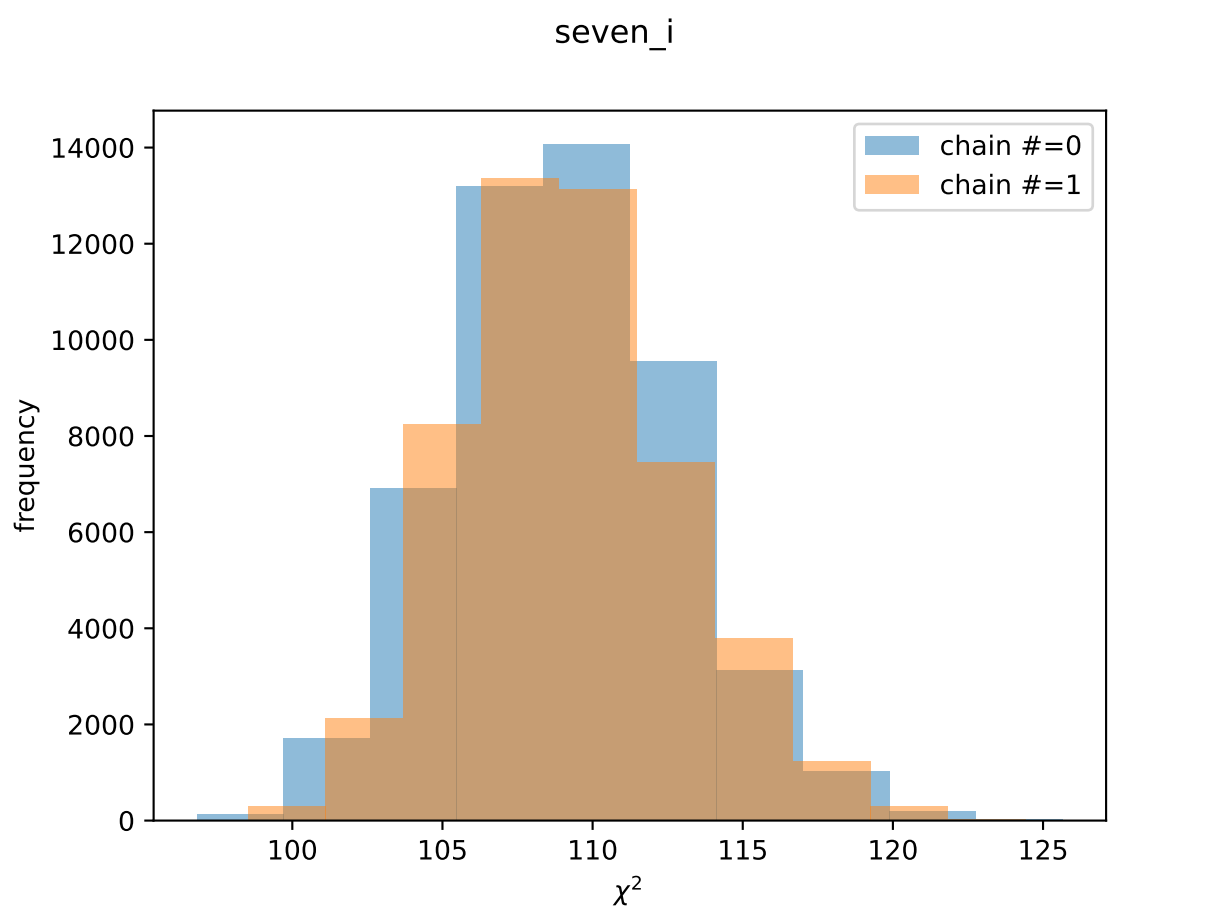

chain #=0
chain #=1
frequency
tau

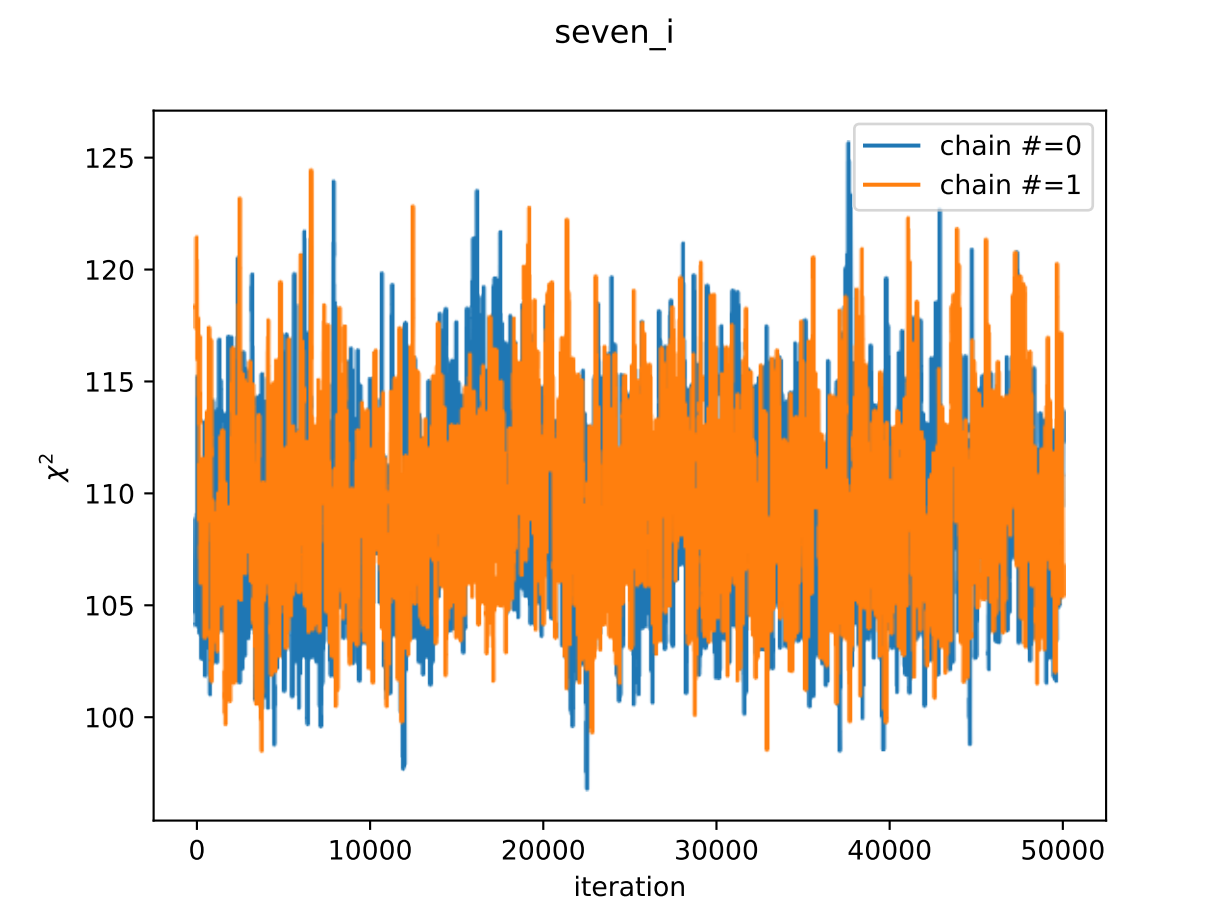

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0

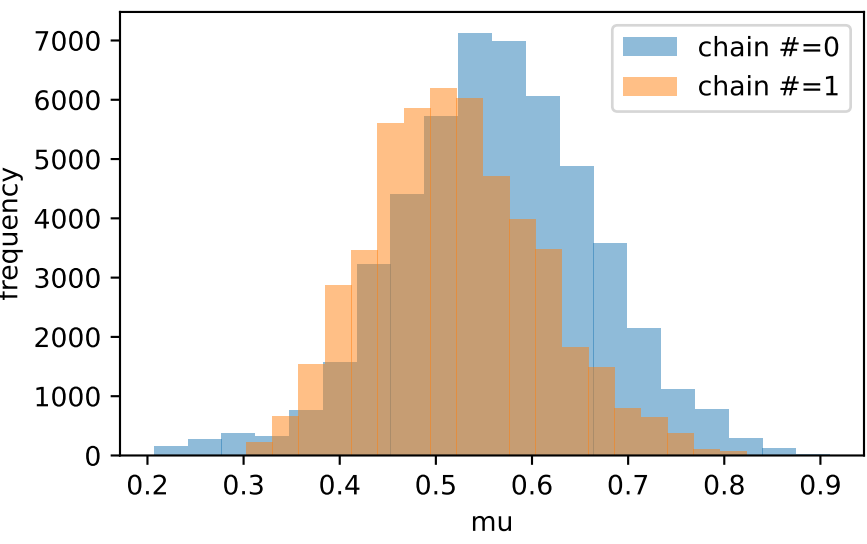
seven_i

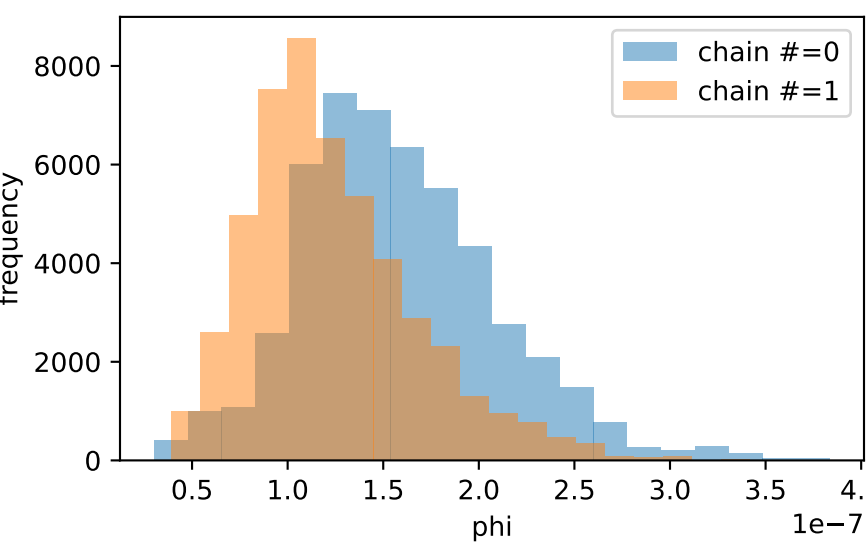


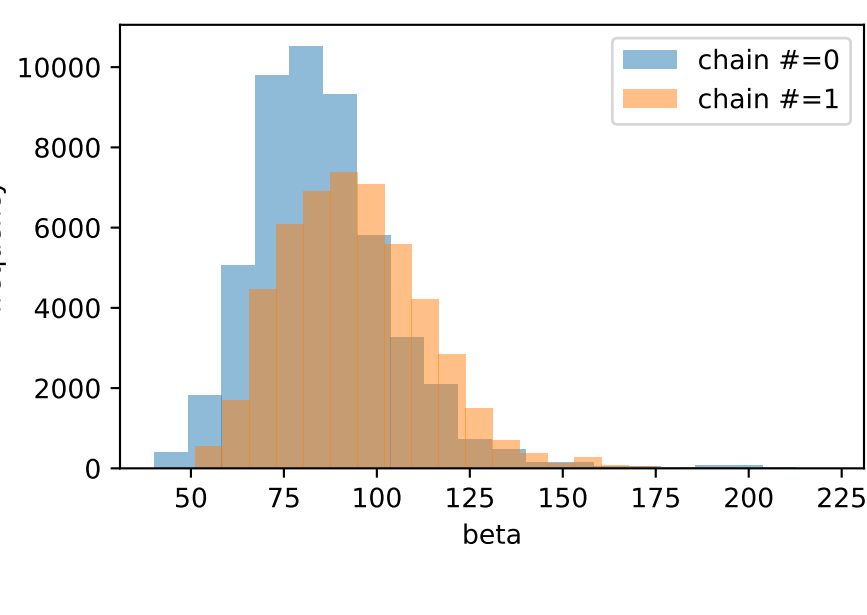

seven_i
chain #=0
chain #=1
14000
12000
10000
8000
6000
4000
2000
0
frequency
100
105
110
115
120
125
χ^2


seven_i
chain #=0
chain #=1
125
120
115
110
105
100
χ^2
0
10000
20000
30000
40000
50000
iteration

eight_i


chain #=0
chain #=1
frequency
mu


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


chain #=0
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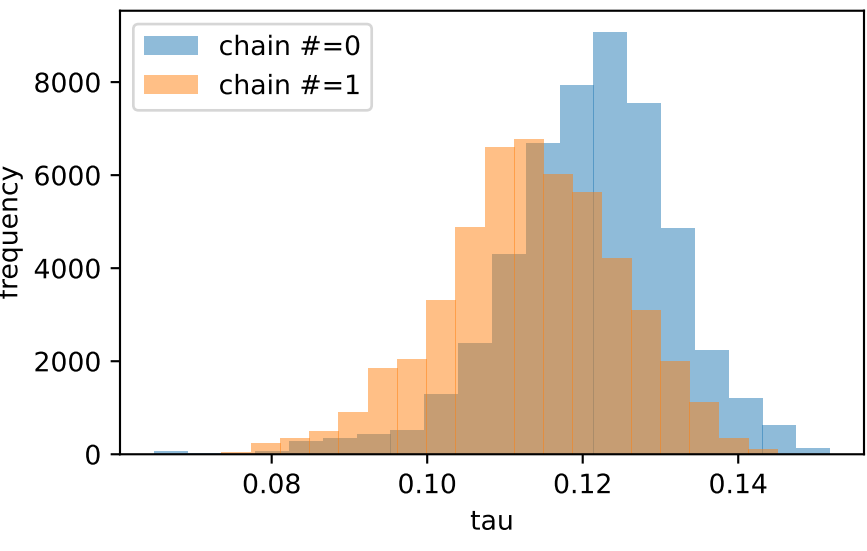
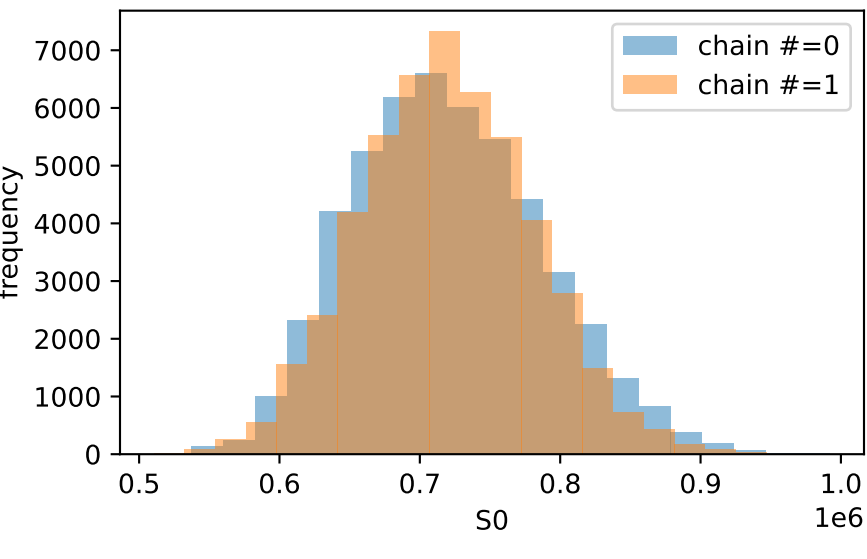
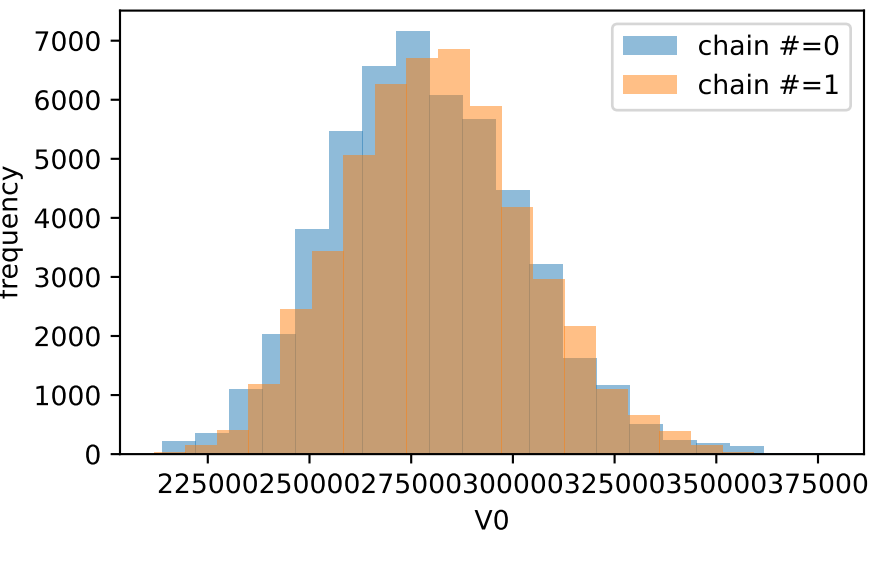
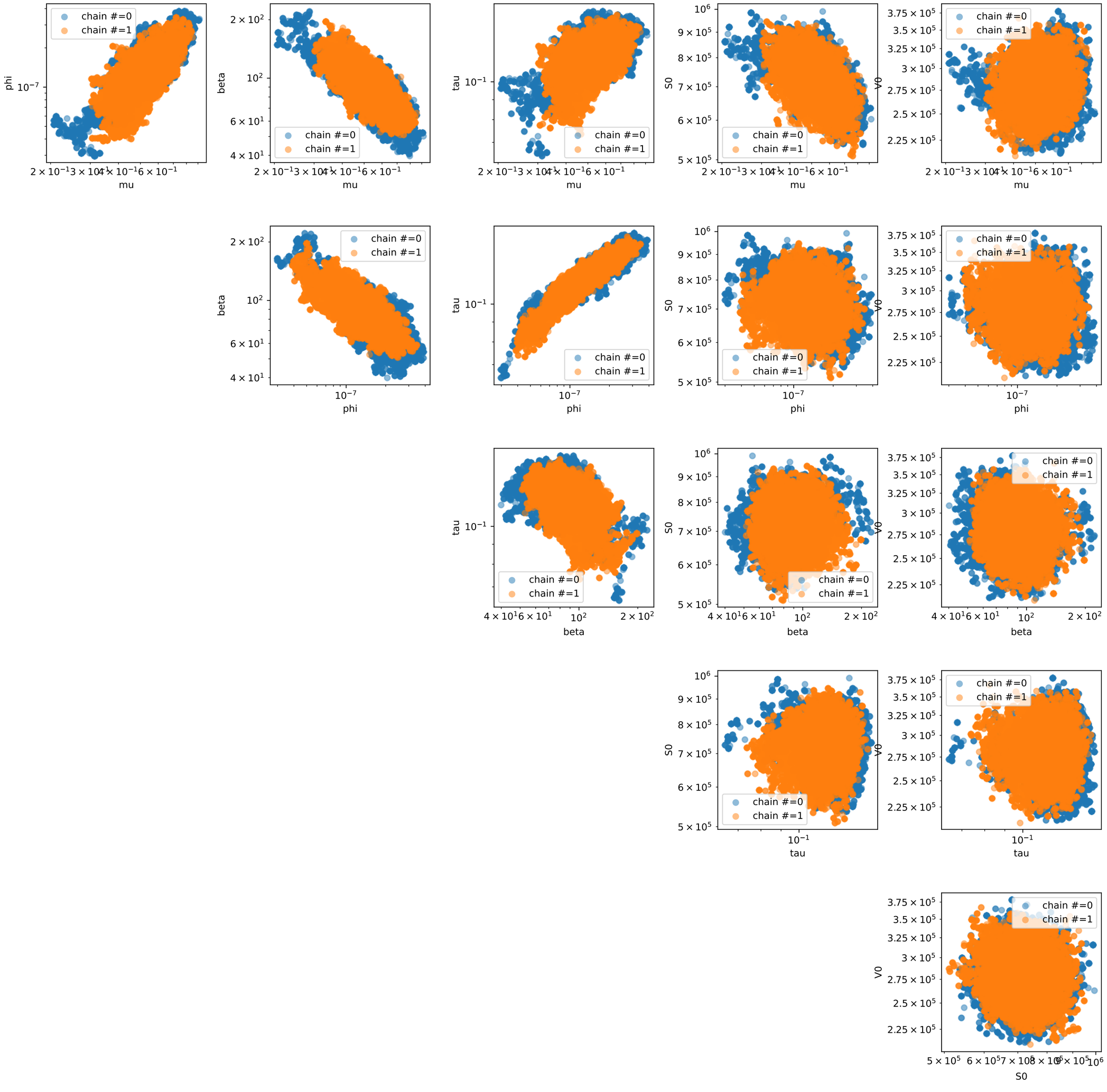
beta

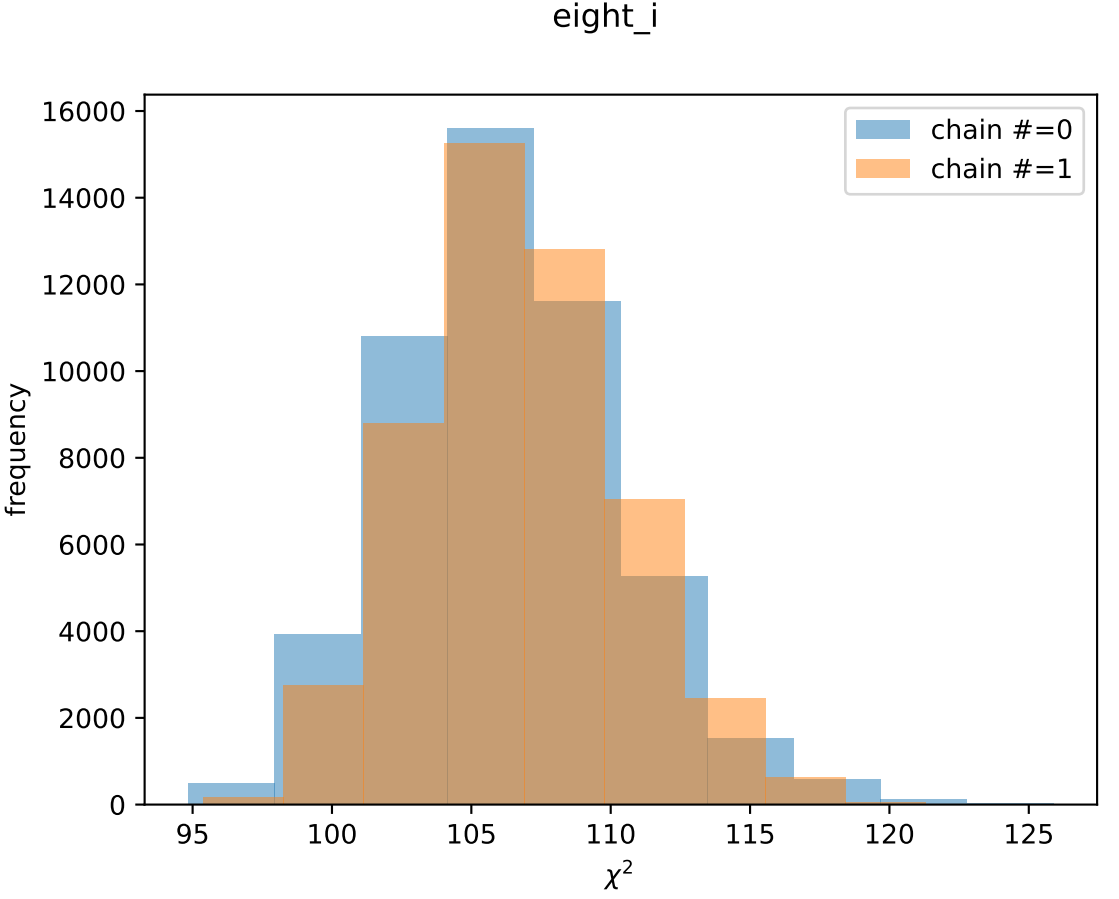

chain #=0
chain #=1
frequency
tau

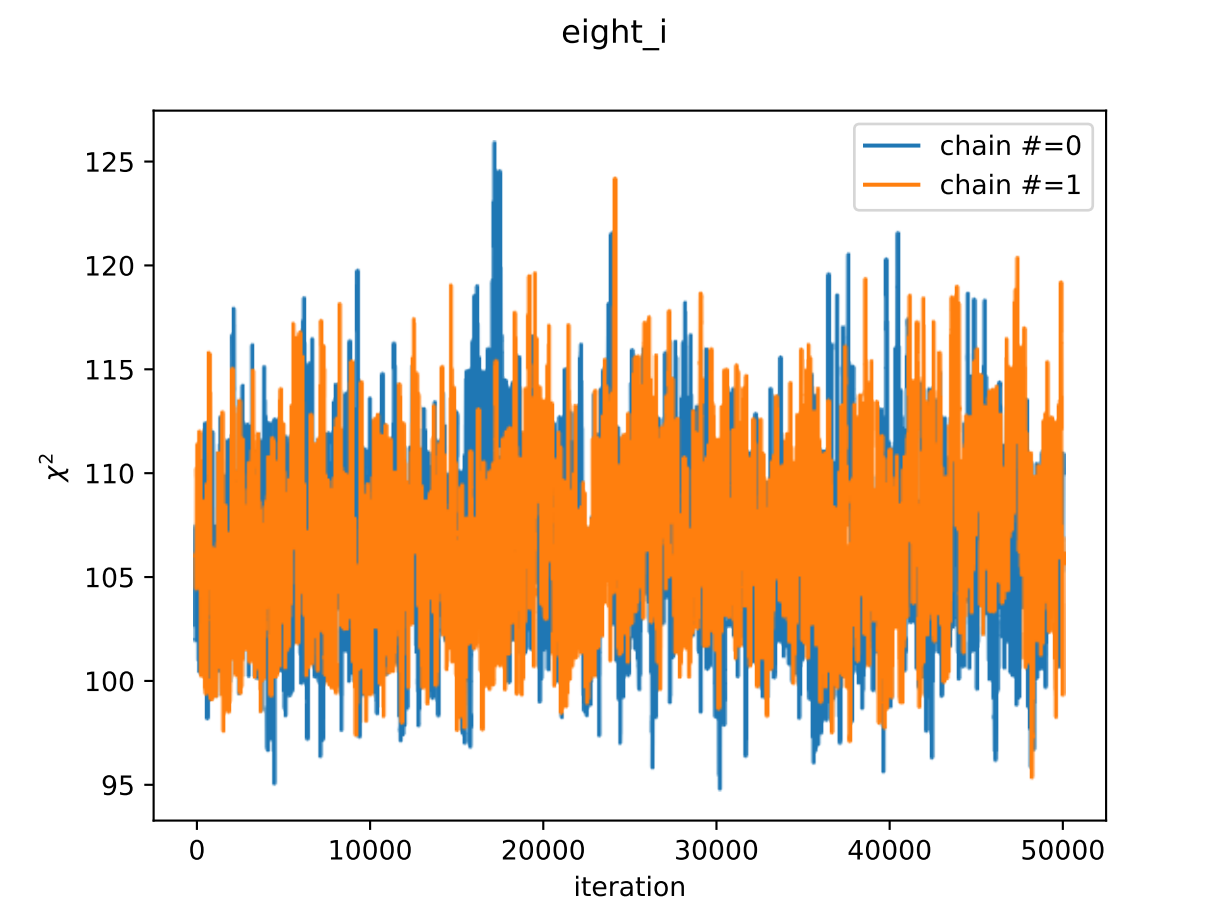

chain #=0
chain #=1
frequency
S0
1e6


chain #=0
chain #=1
frequency
V0

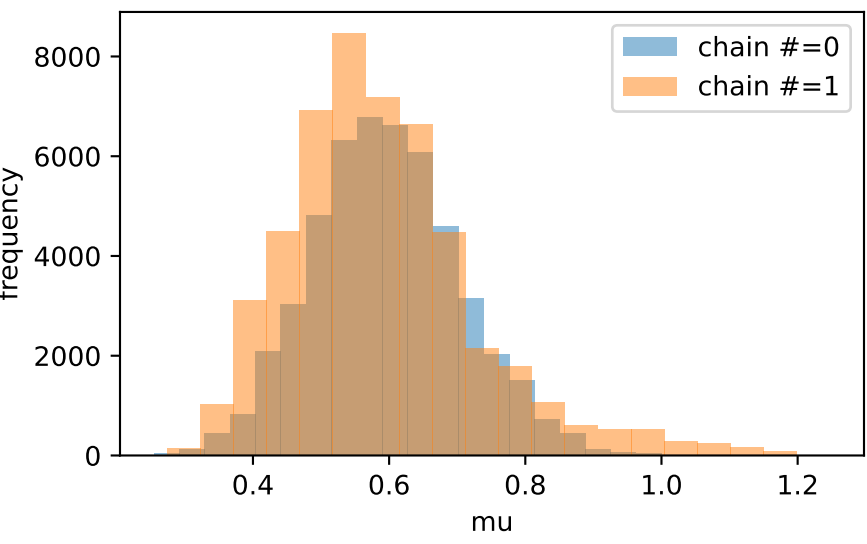
eight_i




eight_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
95
100
105
110
115
120
125
χ^2


eight_i
chain #=0
chain #=1
125
120
115
110
105
100
95
χ^2
0
10000
20000
30000
40000
50000
iteration

nine_i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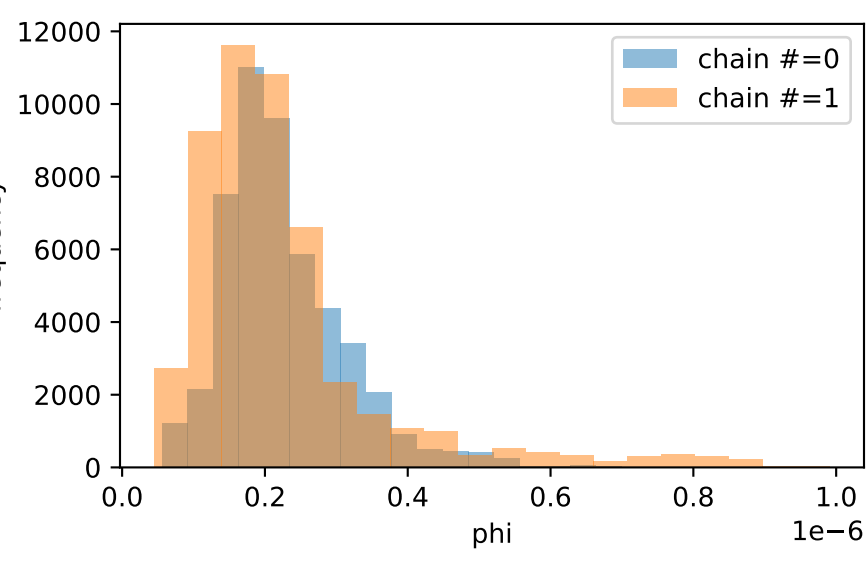
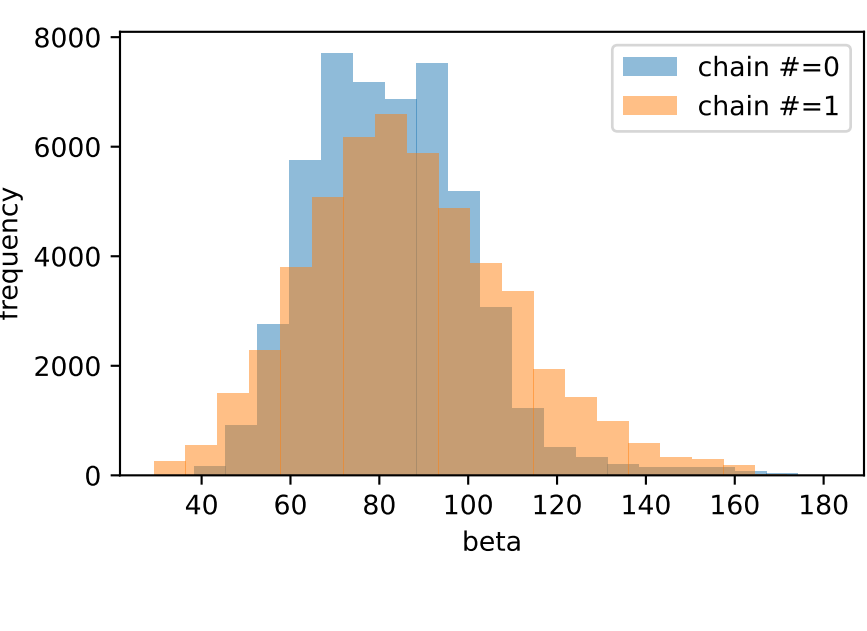
frequency
8000
6000
4000
2000
0
0.4
0.6
0.8
1.0
1.2
mu


chain #=0
chain #=1
12000
10000
8000
6000
4000
2000
0
0.0
0.2
0.4
0.6
0.8
1.0
phi
1e−6


chain #=0
chain #=1
frequency
8000
6000
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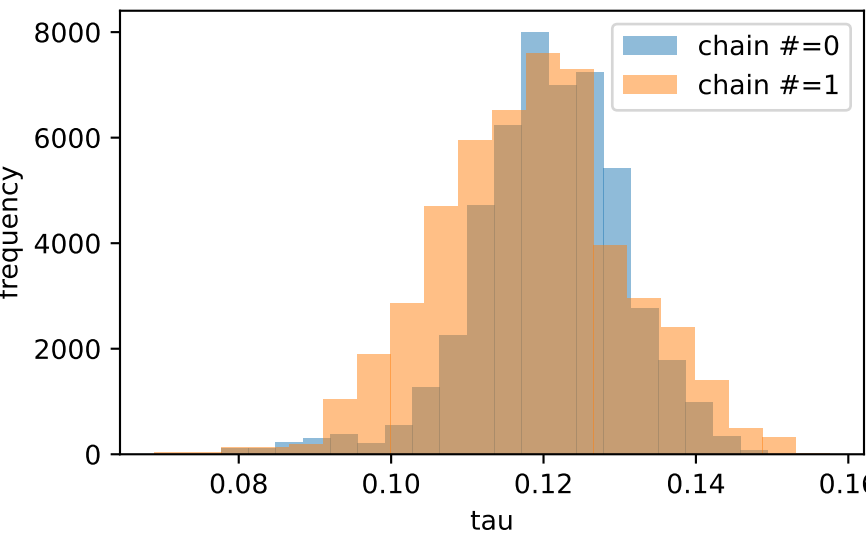
2000
0
40
60
80
100
120
140
160
180
beta


chain #=0
chain #=1
frequency
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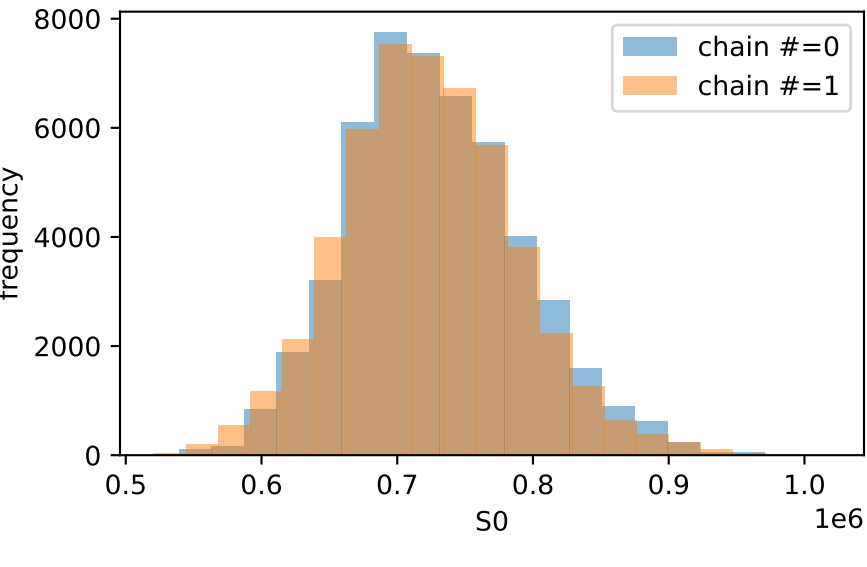
0
0.08
0.10
0.12
0.14
0.16
tau


chain #=0
chain #=1
frequency
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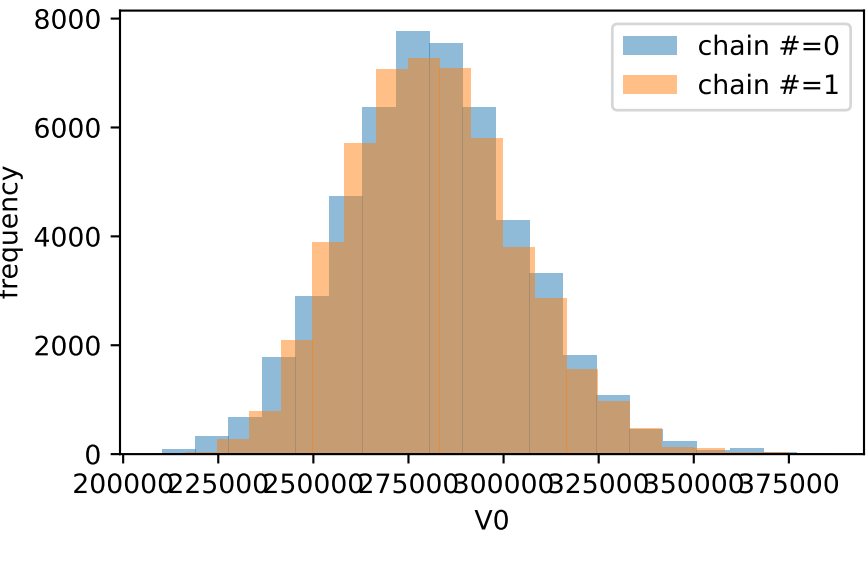
6000
4000
2000
0
0.5
0.6
0.7
0.8
0.9
1.0
S0
1e6


chain #=0
chain #=1
frequency
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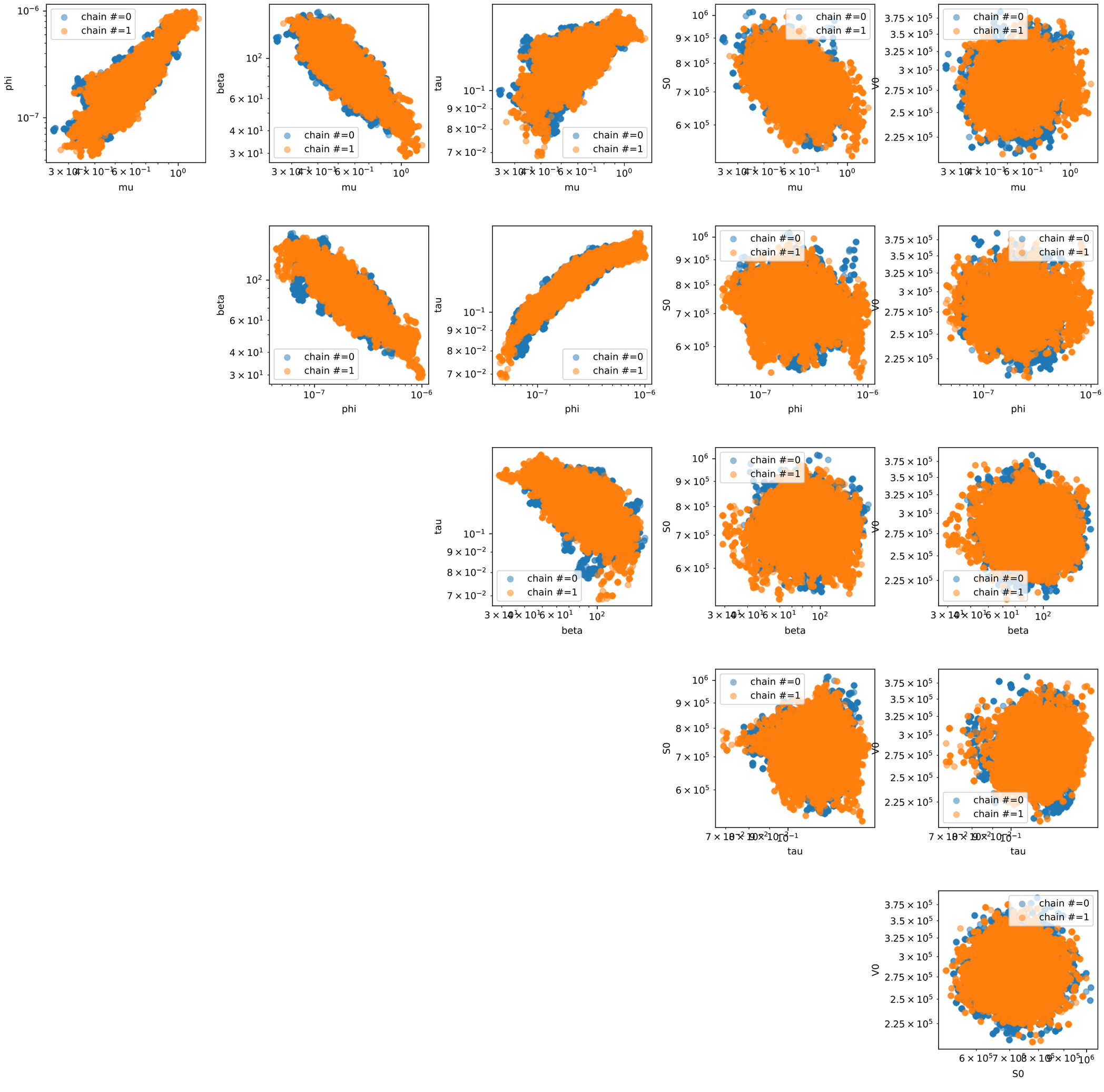
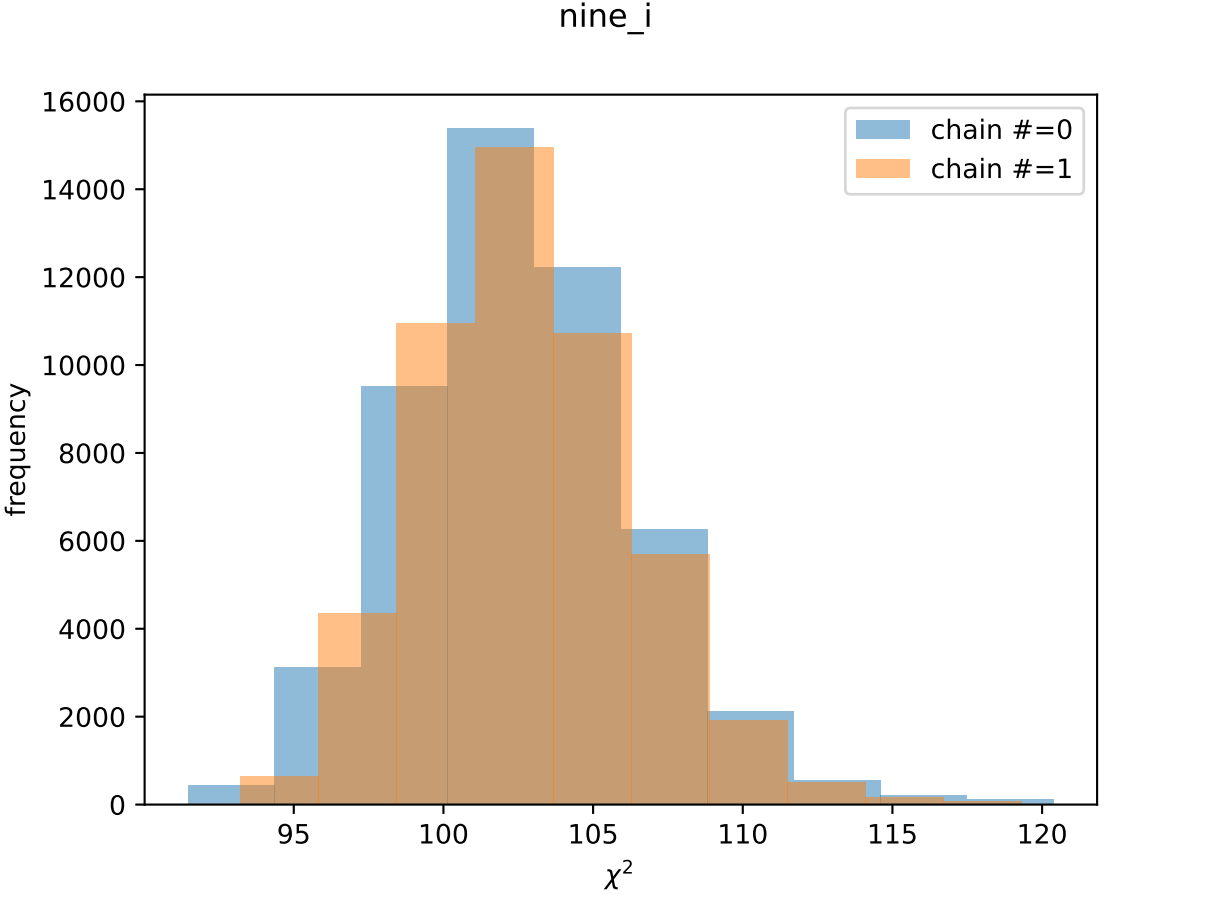
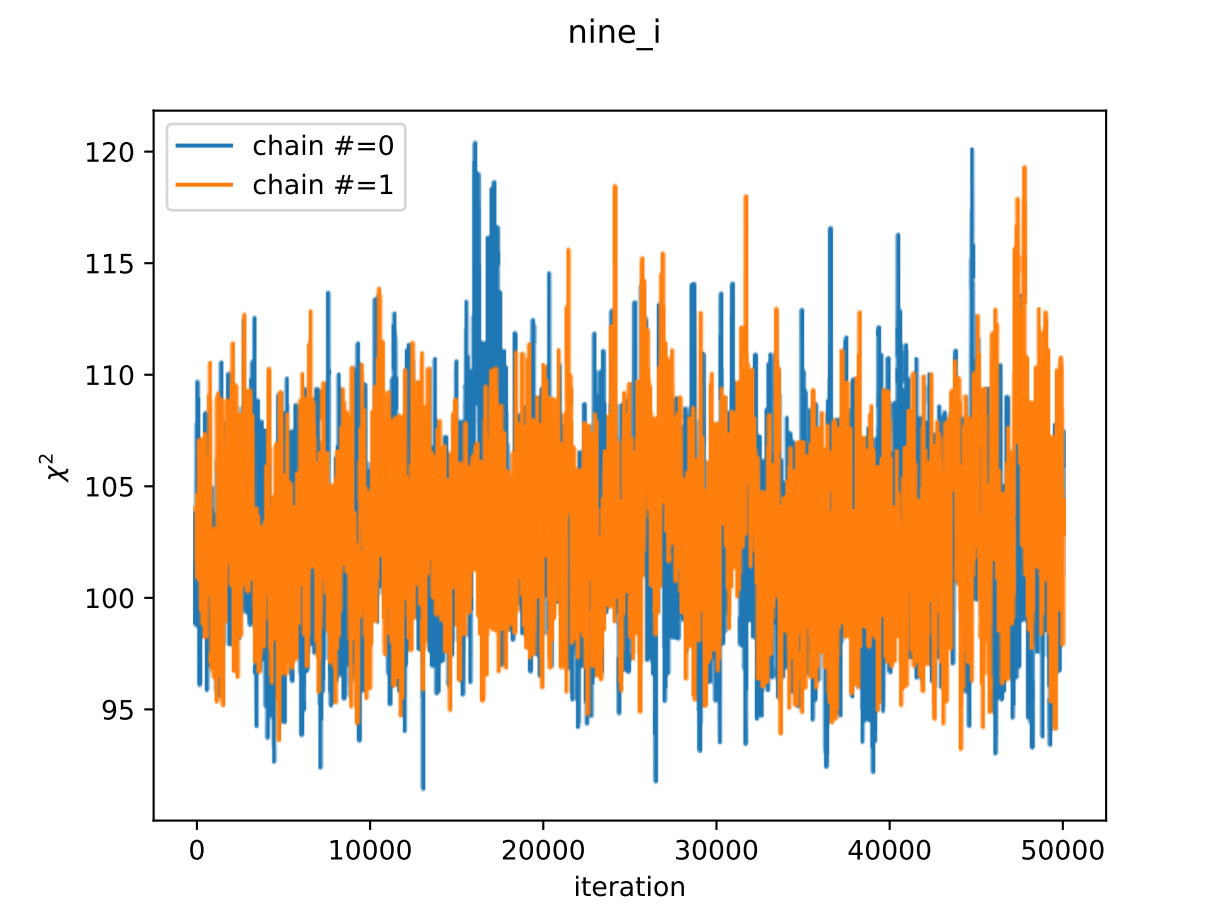
6000
4000
2000
0
200000
225000
250000
275000
300000
325000
350000
375000
V0

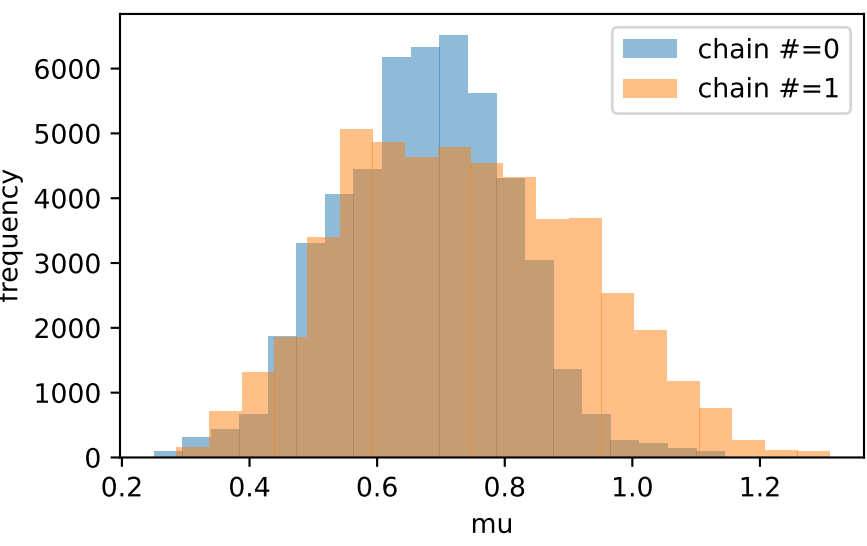
nine_i




nine_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
95
100
105
110
115
120
χ^2


nine_i
chain #=0
chain #=1
120
115
110
105
100
95
χ^2
0
10000
20000
30000
40000
50000
iteration

ten_i


chain #=0
chain #=1
frequency
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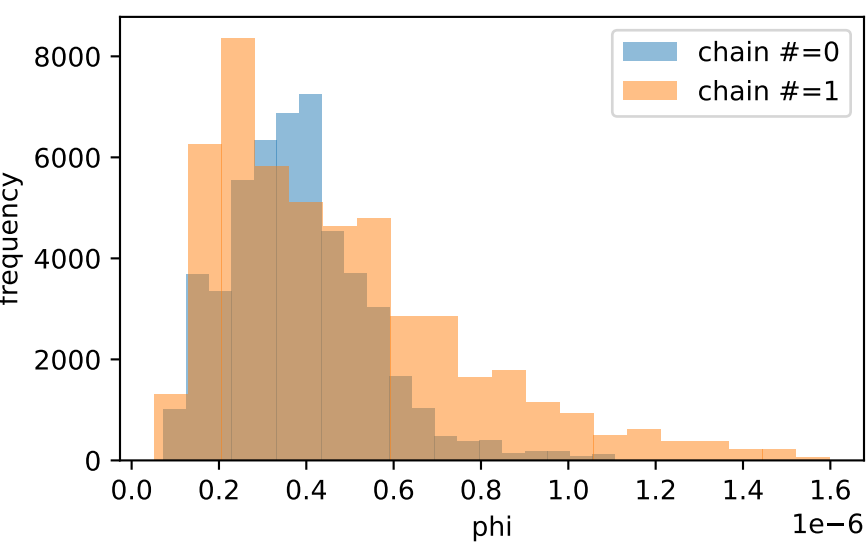
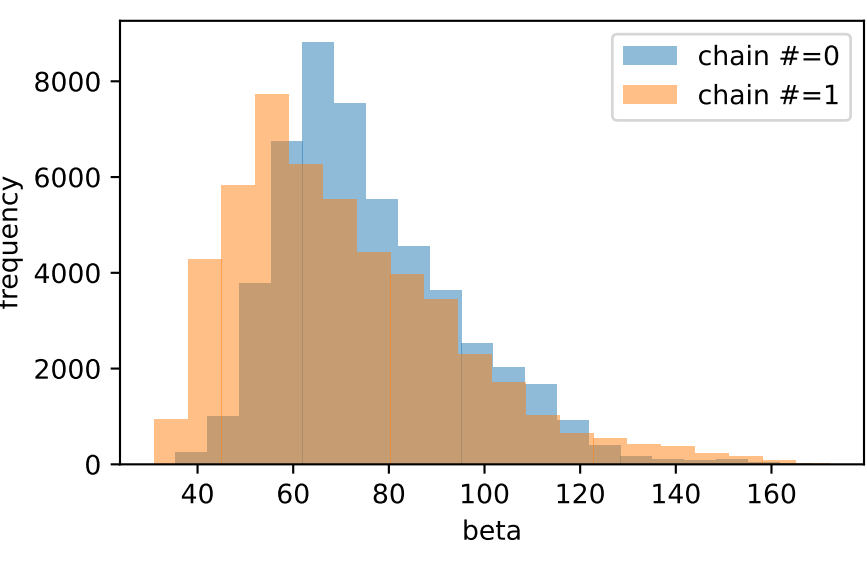
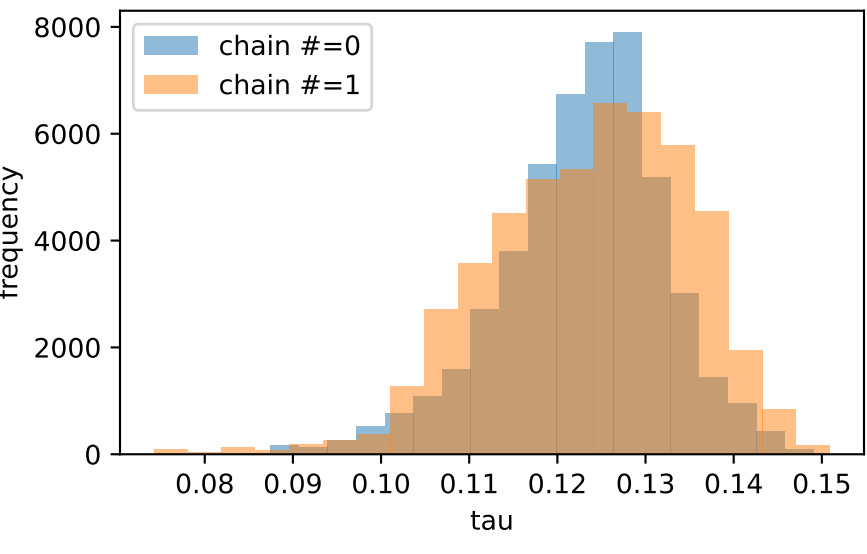
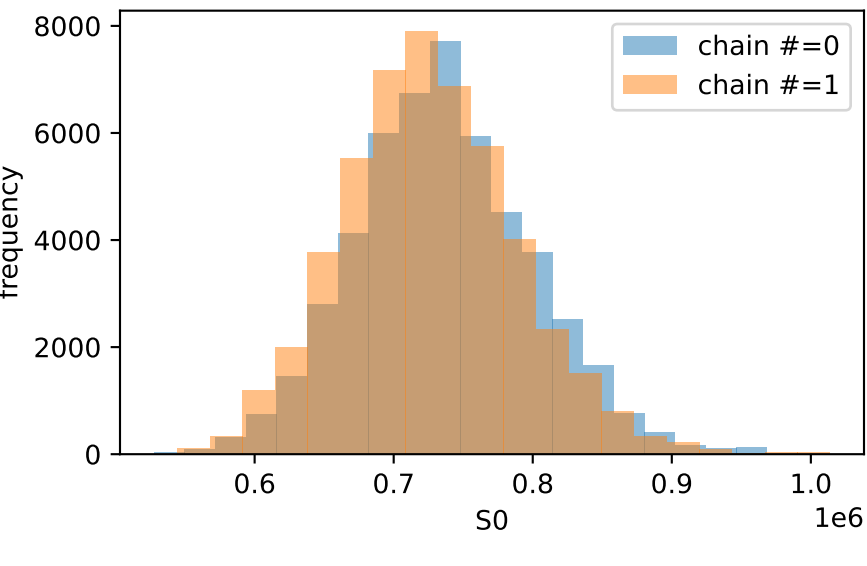
5000
4000
3000
2000
1000
0
0.2
0.4
0.6
0.8
1.0
1.2
mu


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
phi
1e−6


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
40
60
80
100
120
140
160
beta


chain #=0
chain #=1
frequency
8000
6000
4000
2000
0
0.08
0.09
0.10
0.11
0.12
0.13
0.14
0.15
tau


chain #=0
chain #=1
frequency
8000
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2000
0
0.6
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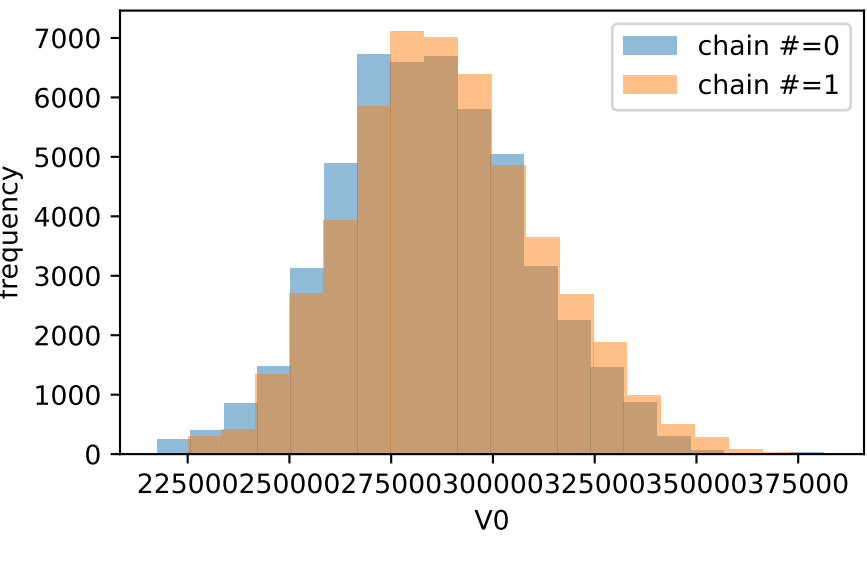
0.8
0.9
1.0
S0
1e6


chain #=0
chain #=1
frequency
7000
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1000
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225000
250000
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300000
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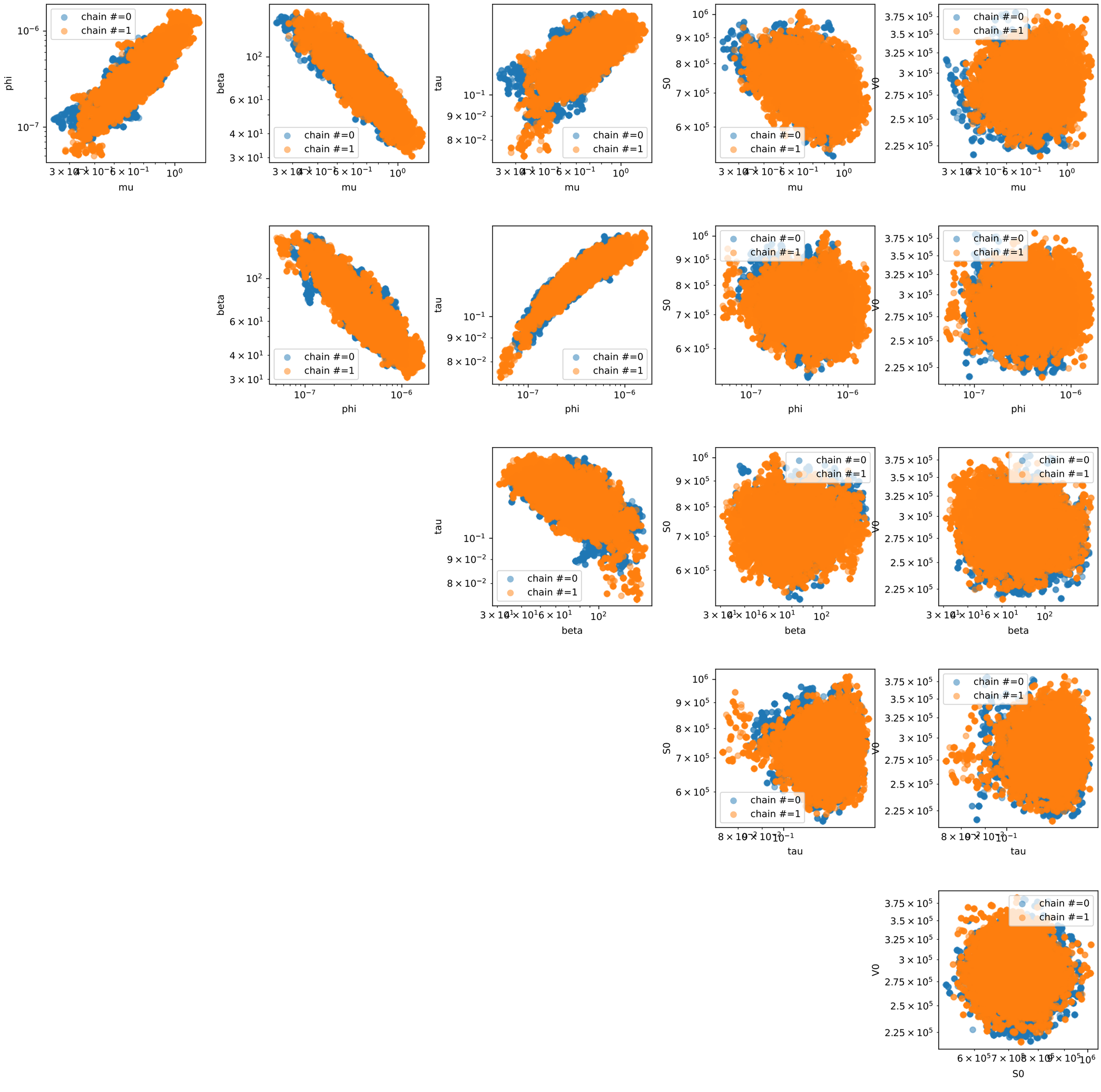
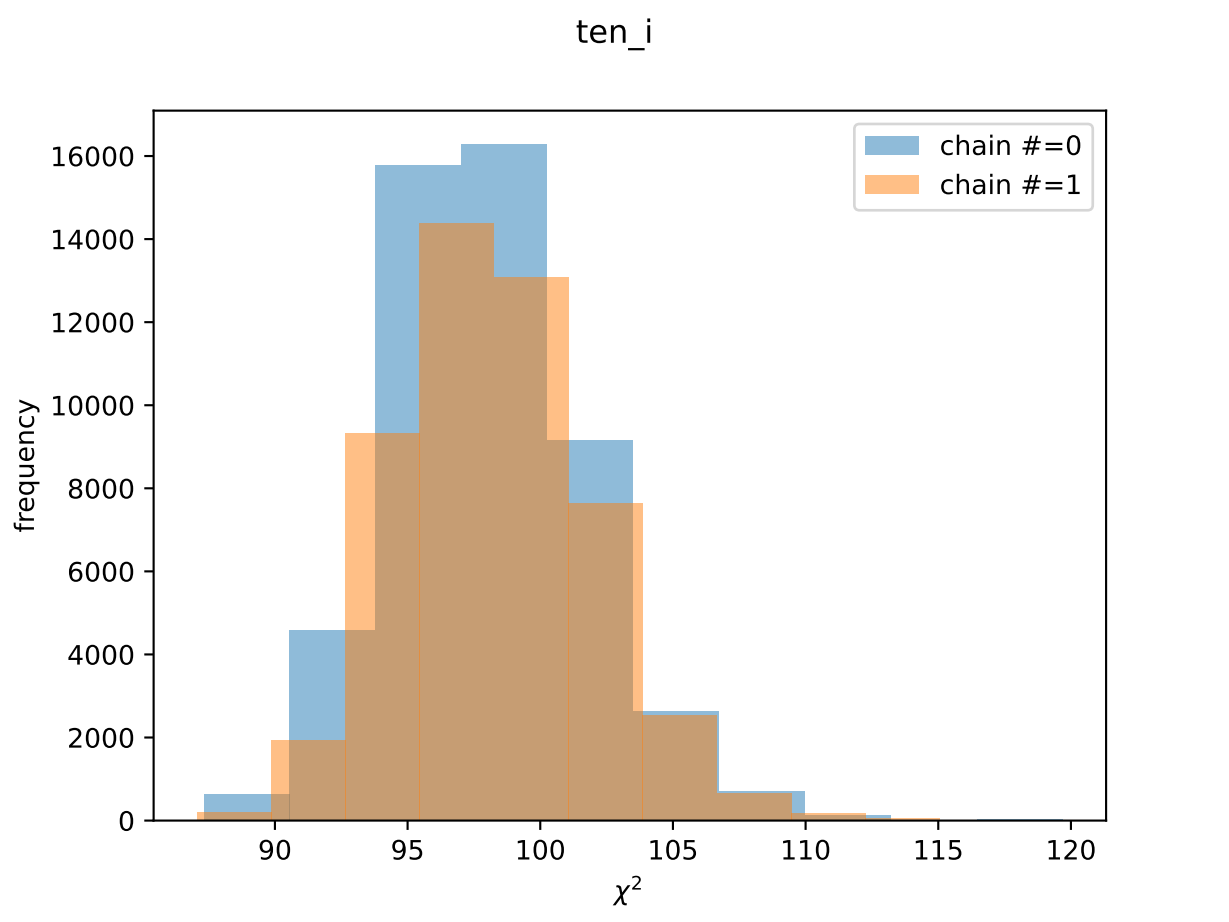
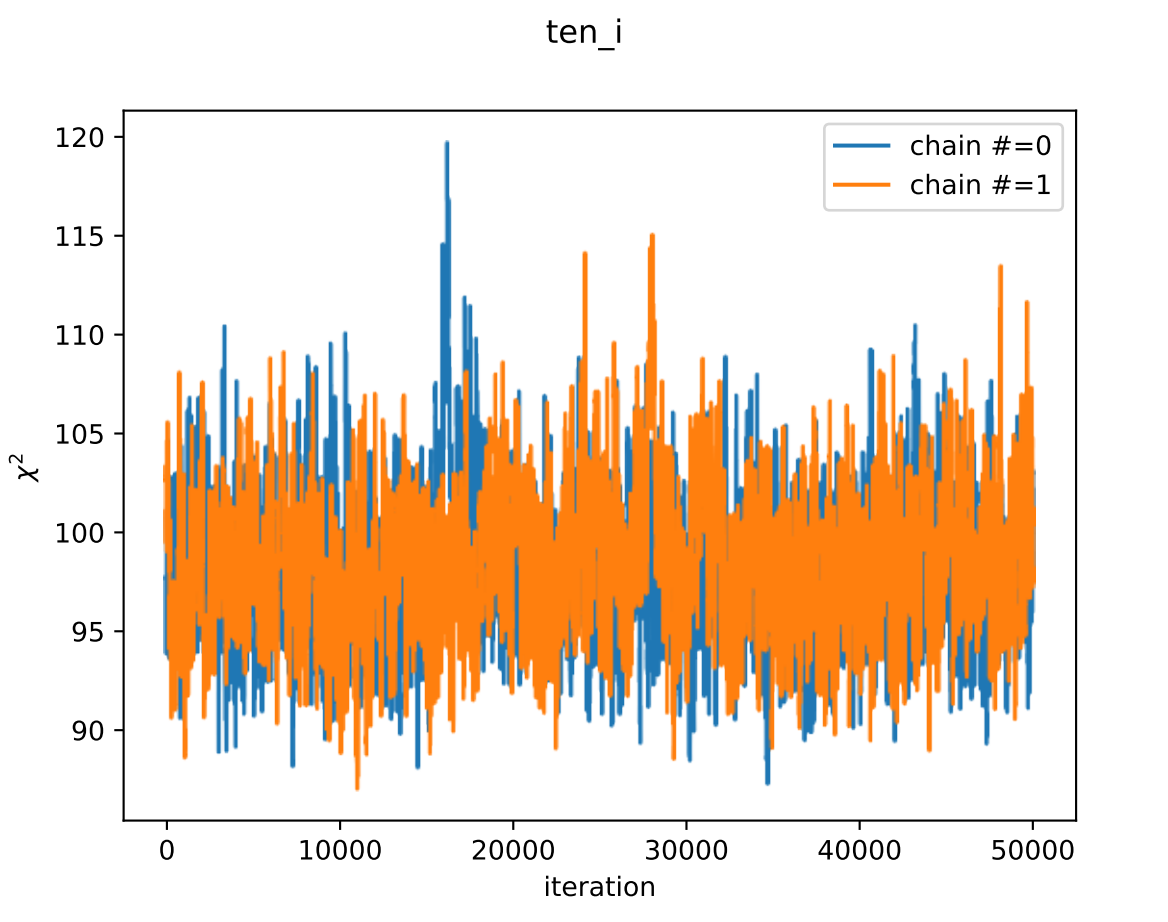
375000
V0

ten_i




ten_i
chain #=0
chain #=1
frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
90
95
100
105
110
115
120
χ^2


ten_i
chain #=0
chain #=1
120
115
110
105
100
95
90
χ^2
0
10000
20000
30000
40000
50000
iteration