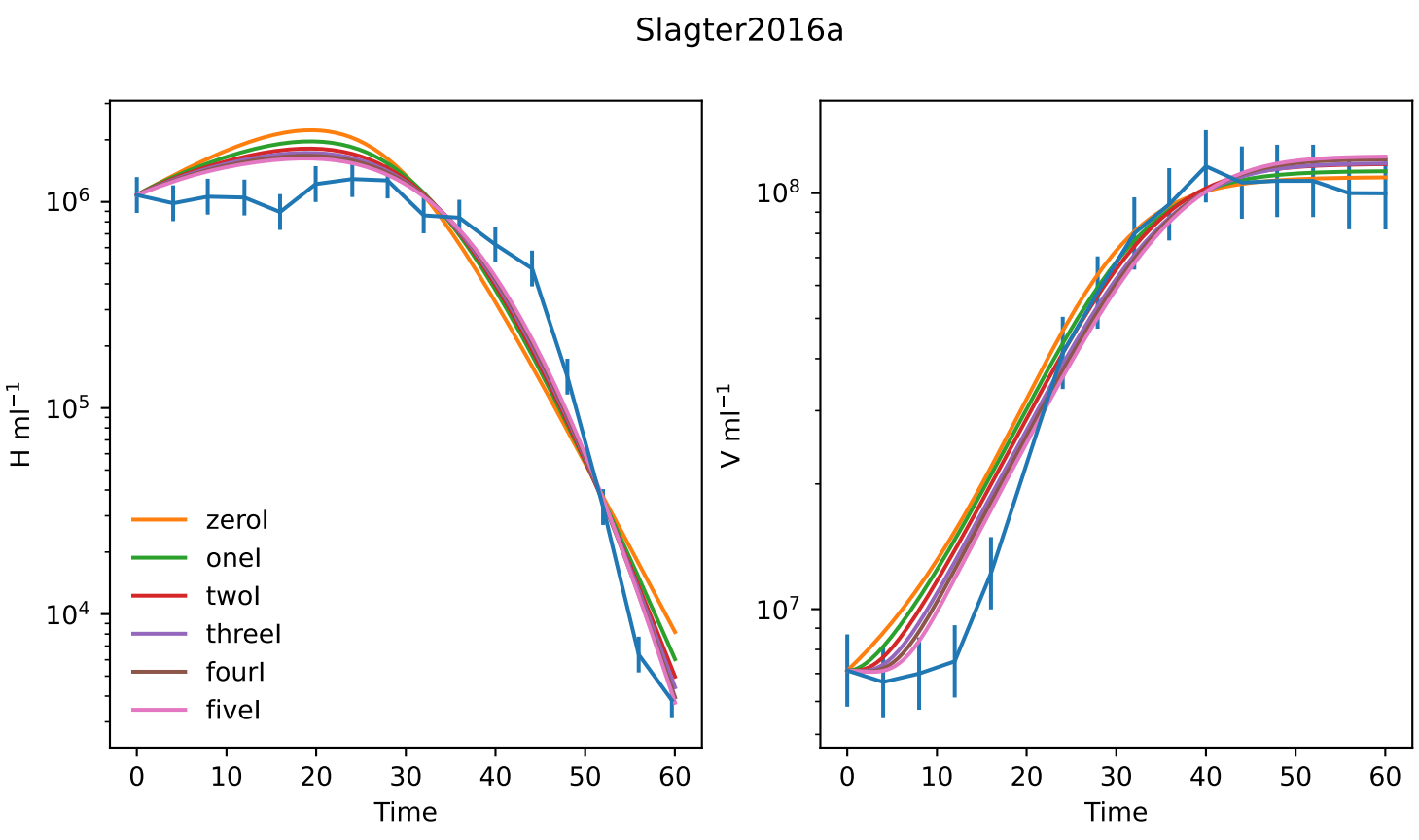
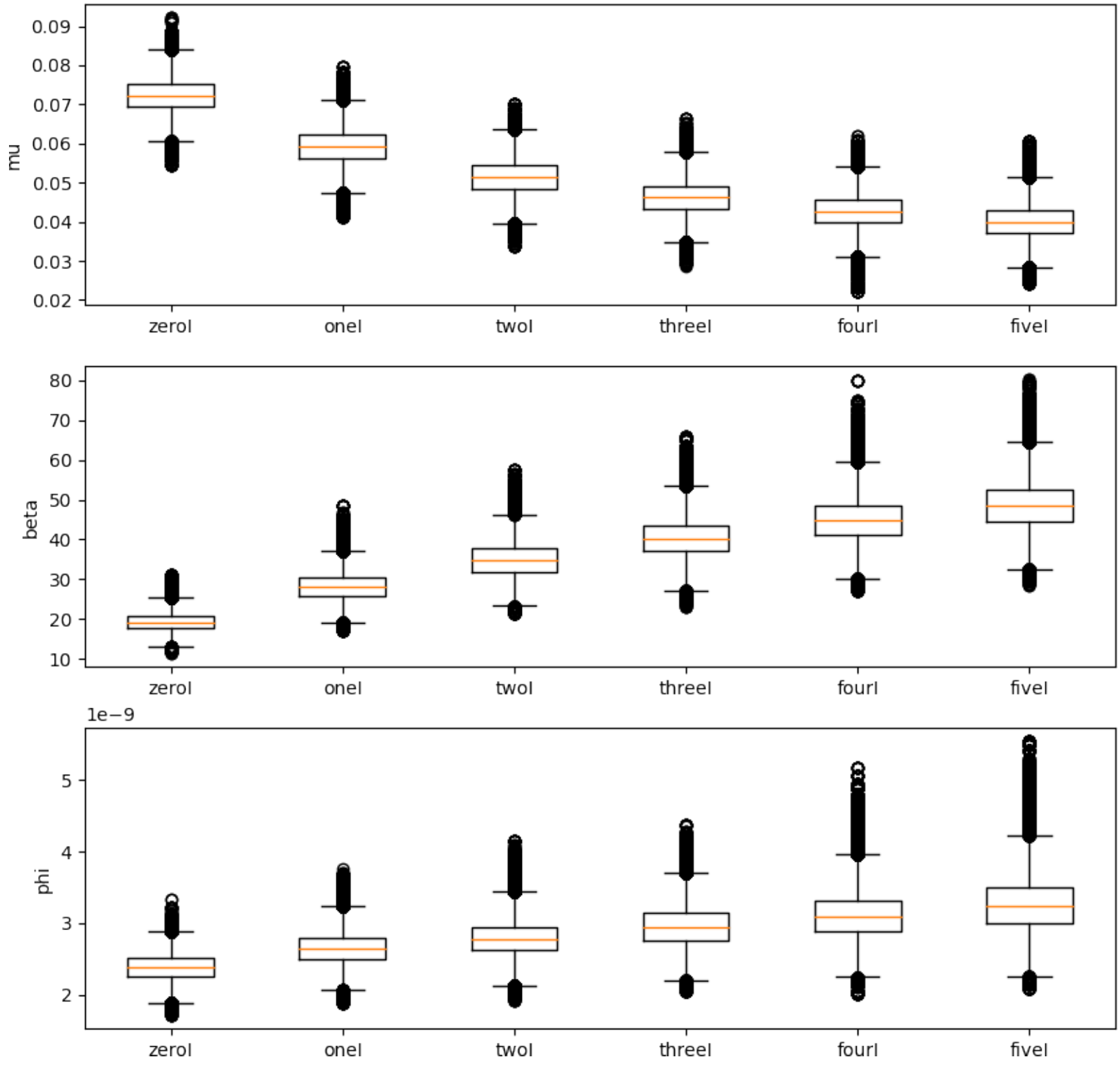
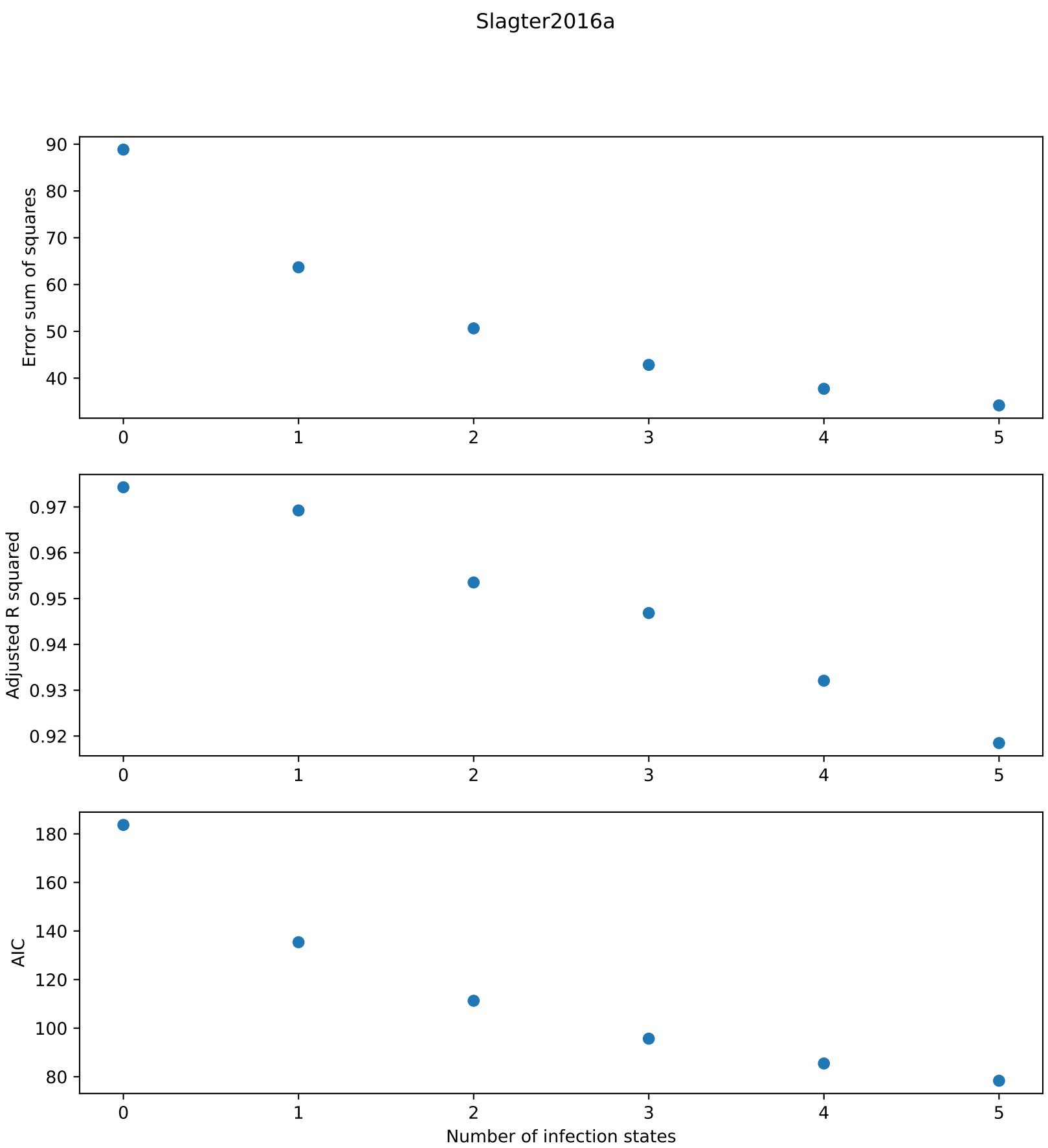
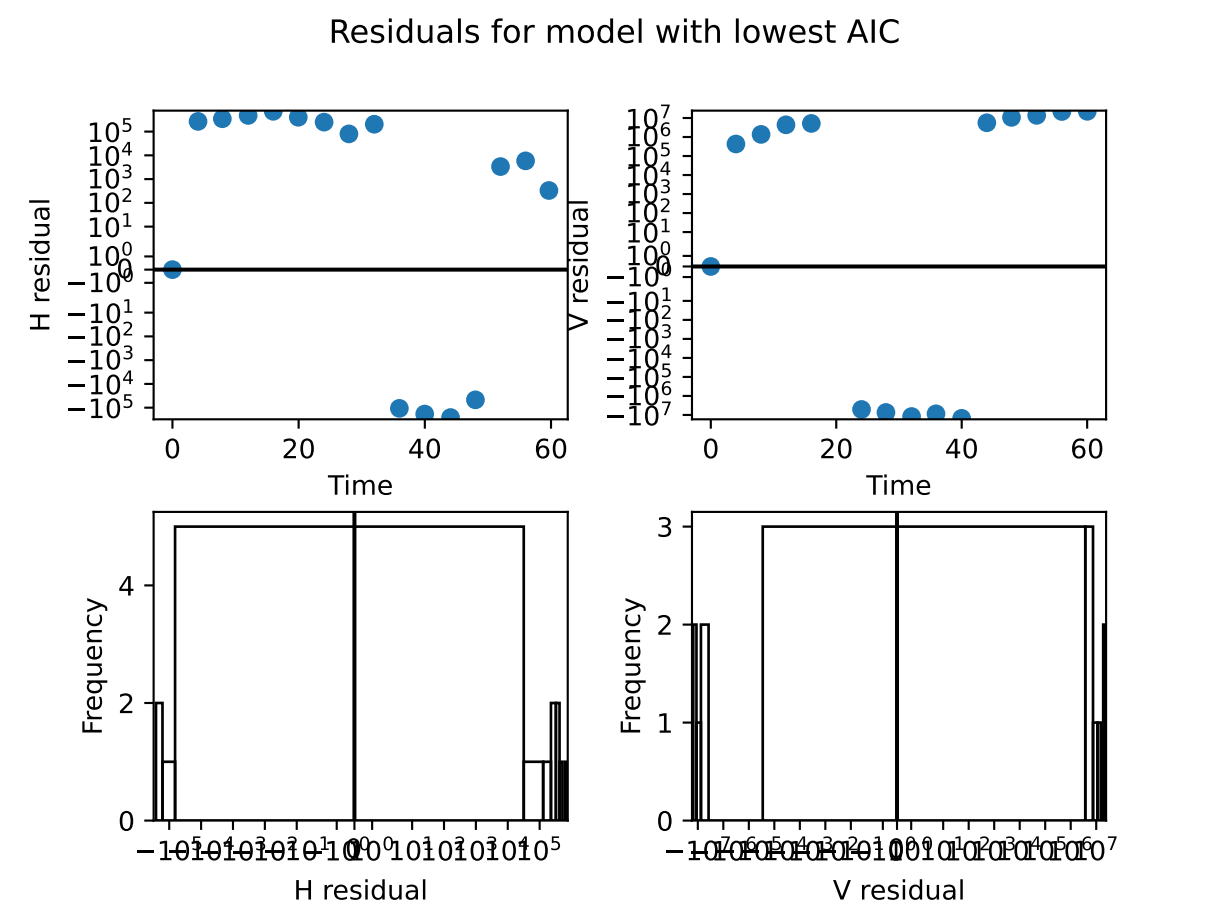
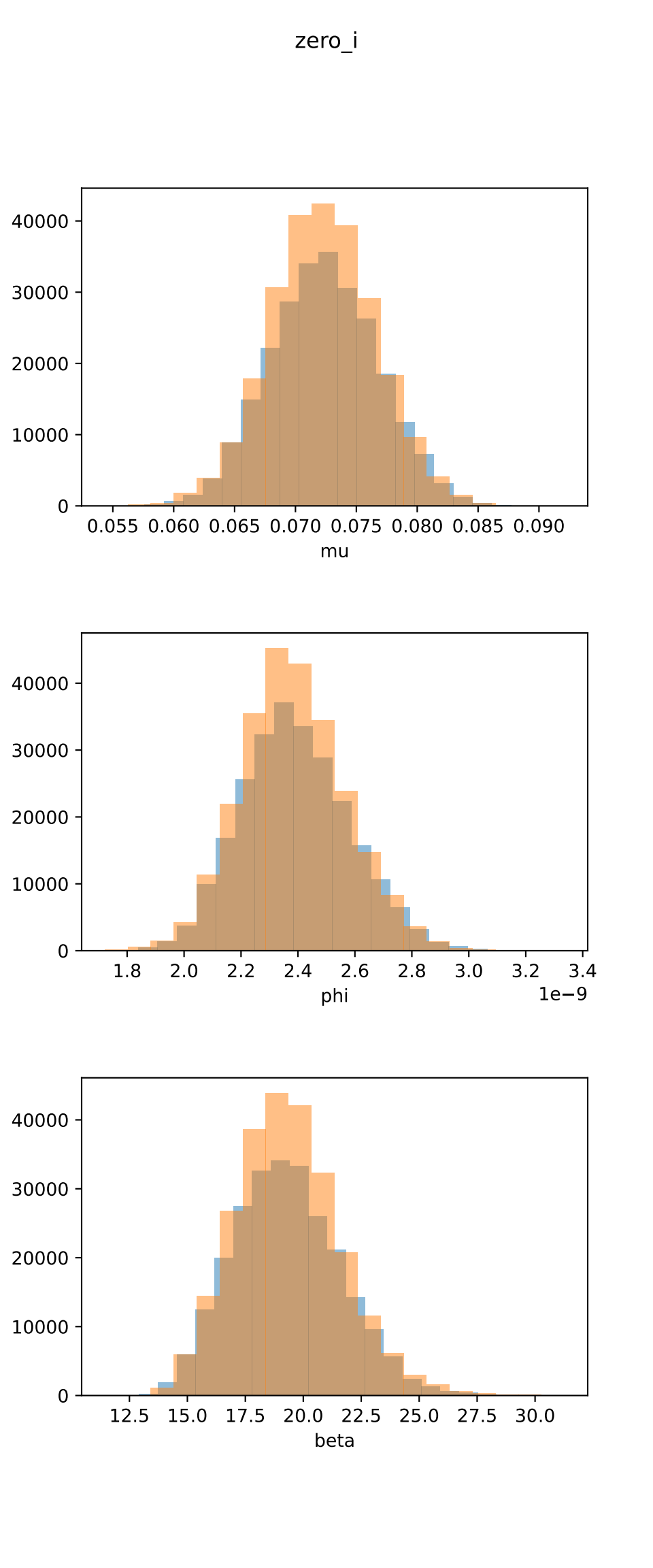

Slagter2016a
H ml^{-1}
10^6
10^5
10^4
zerol
onel
twol
threel
fourl
fivel
0
10
20
30
40
50
60
Time
V ml^{-1}
10^8
10^7
0
10
20
30
40
50
60
Time

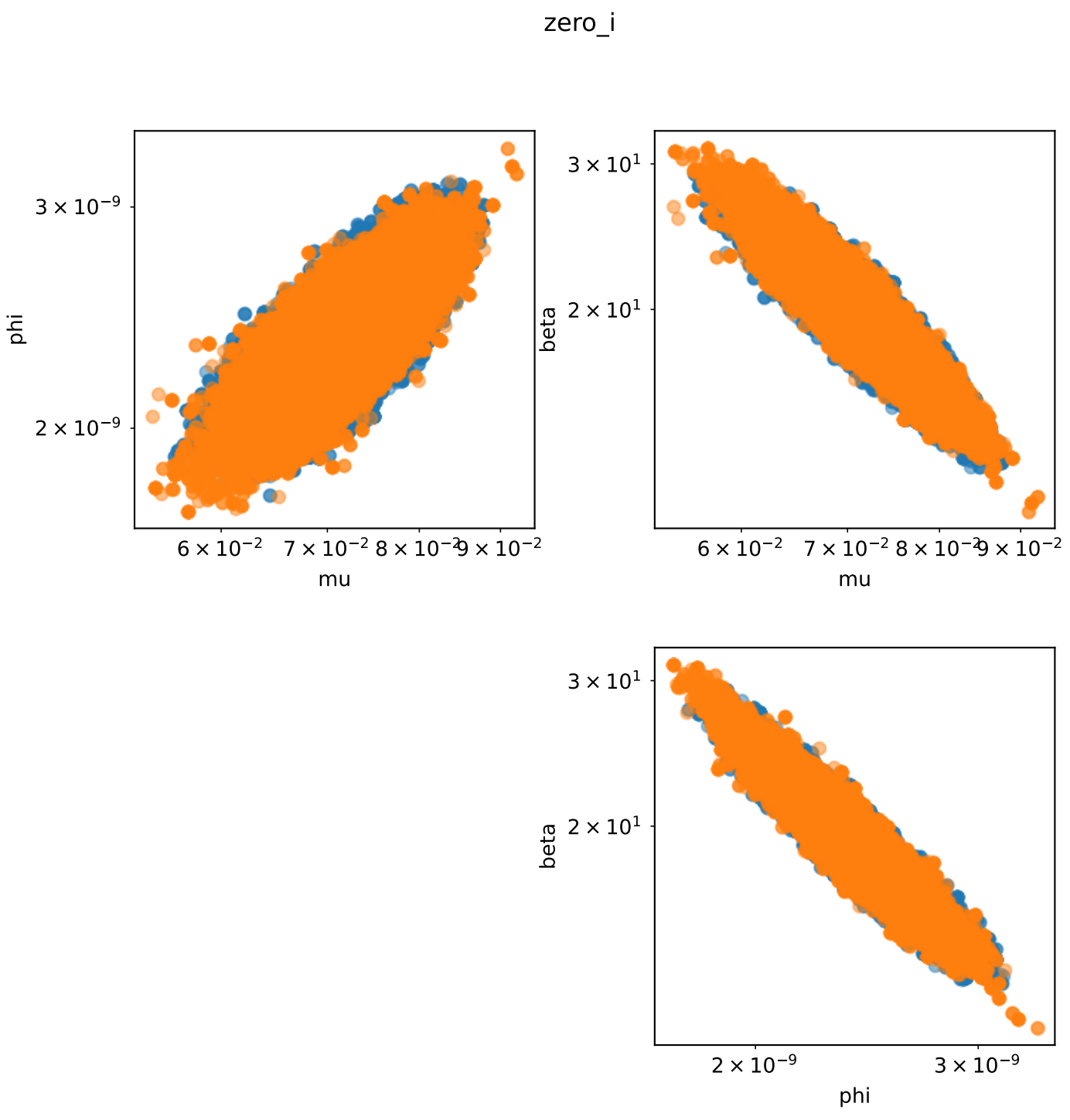
Slagter2016a

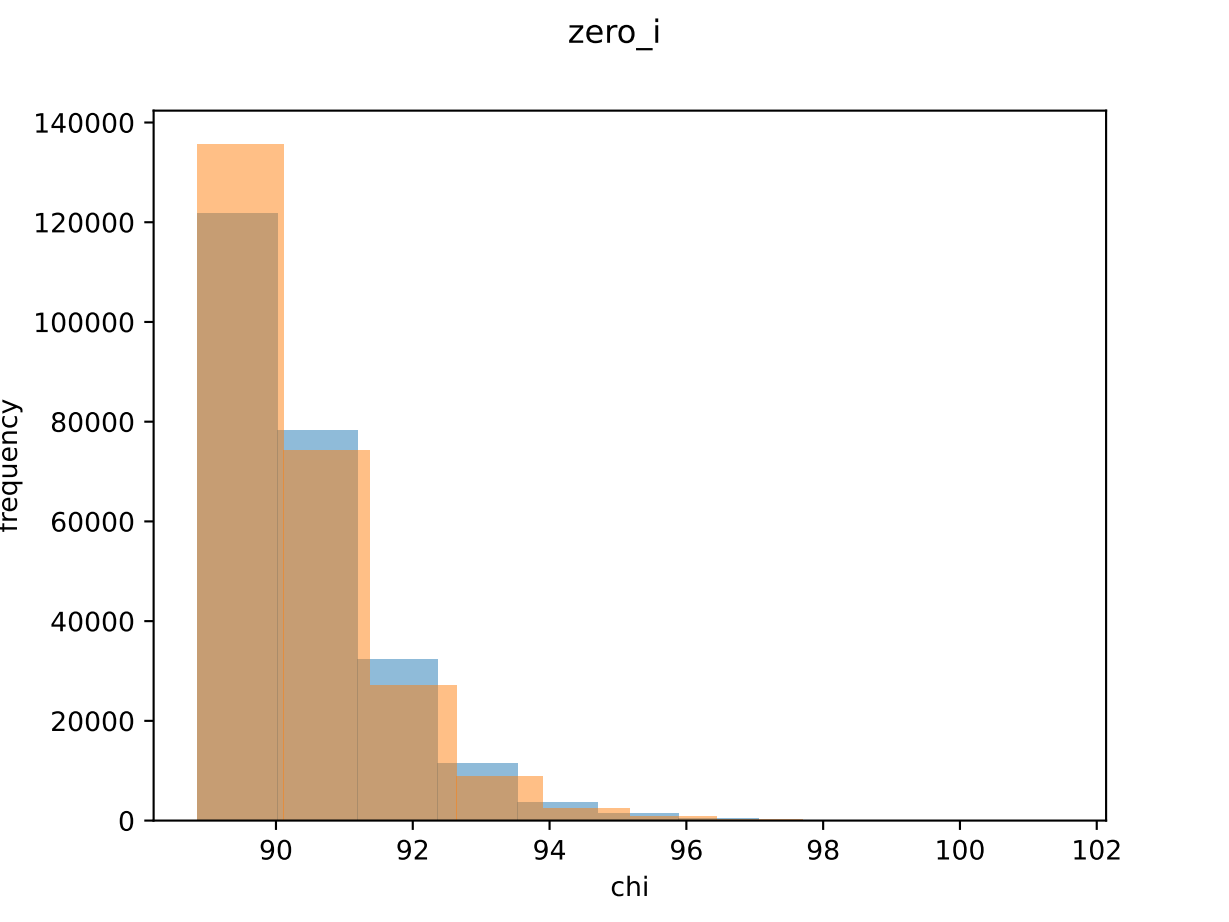


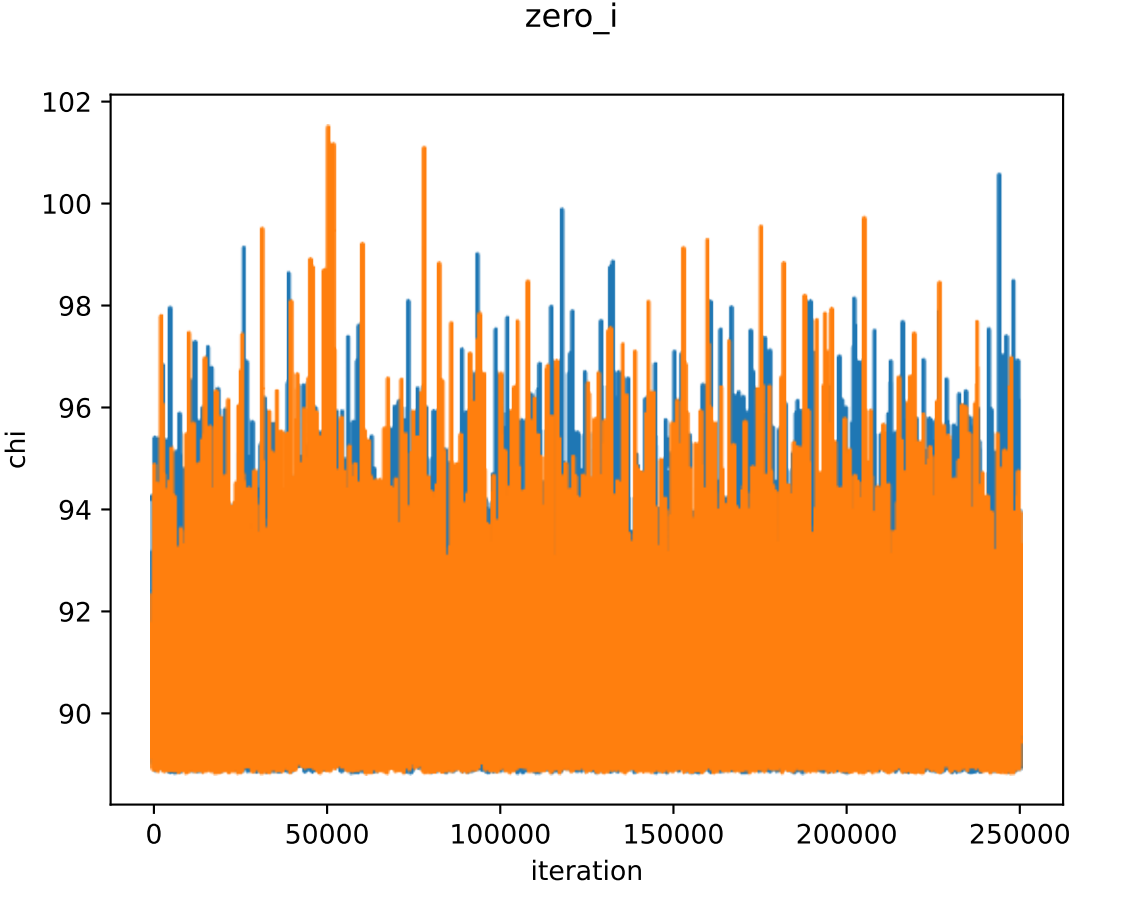

Slagter2016a
Error sum of squares
90
80
70
60
50
40
0
1
2
3
4
5
Adjusted R squared
0.97
0.96
0.95
0.94
0.93
0.92
0
1
2
3
4
5
AIC
180
160
140
120
100
80
0
1
2
3
4
5
Number of infection states


Residuals for model with lowest AIC
H residual
Time
V residual
Time
Frequency
H residual
Frequency
V residual

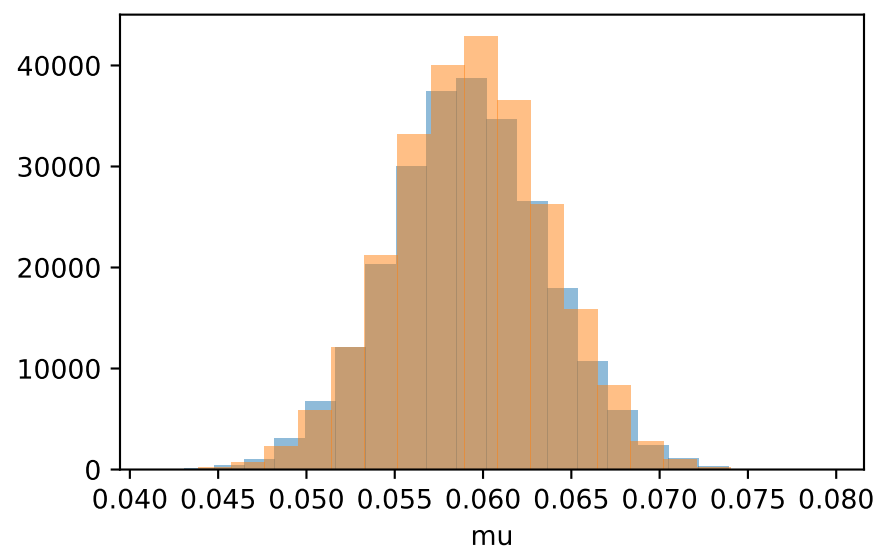

zero_i
40000
30000
20000
10000
0
0.055
0.060
0.065
0.070
0.075
0.080
0.085
0.090
mu
40000
30000
20000
10000
0
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
phi
1e−9
40000
30000
20000
10000
0
12.5
15.0
17.5
20.0
22.5
25.0
27.5
30.0
beta

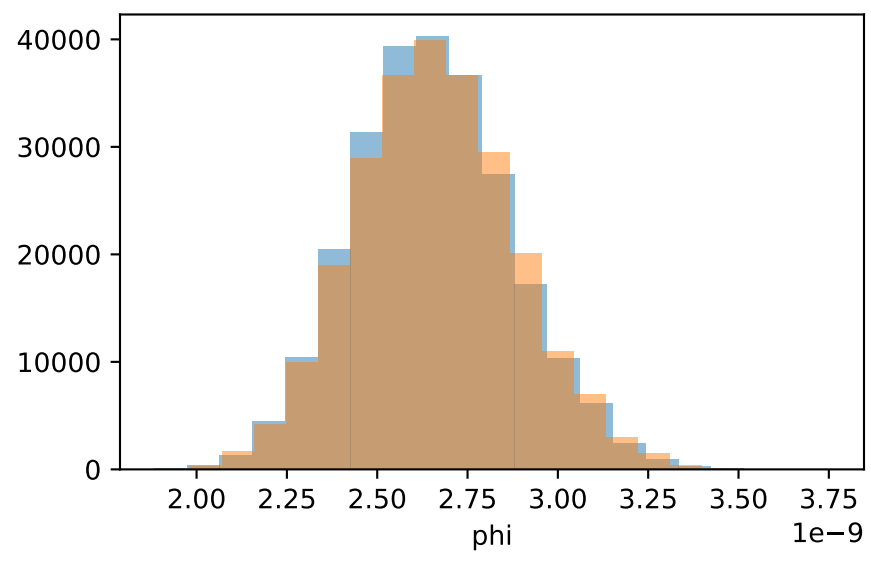

zero_i
phi
3×10^{-9}
2×10^{-9}
6×10^{-2}
7×10^{-2}
8×10^{-2}
9×10^{-2}
mu
beta
3×10^{1}
2×10^{1}
6×10^{-2}
7×10^{-2}
8×10^{-2}
9×10^{-2}
mu
beta
3×10^{1}
2×10^{1}
2×10^{-9}
3×10^{-9}
phi

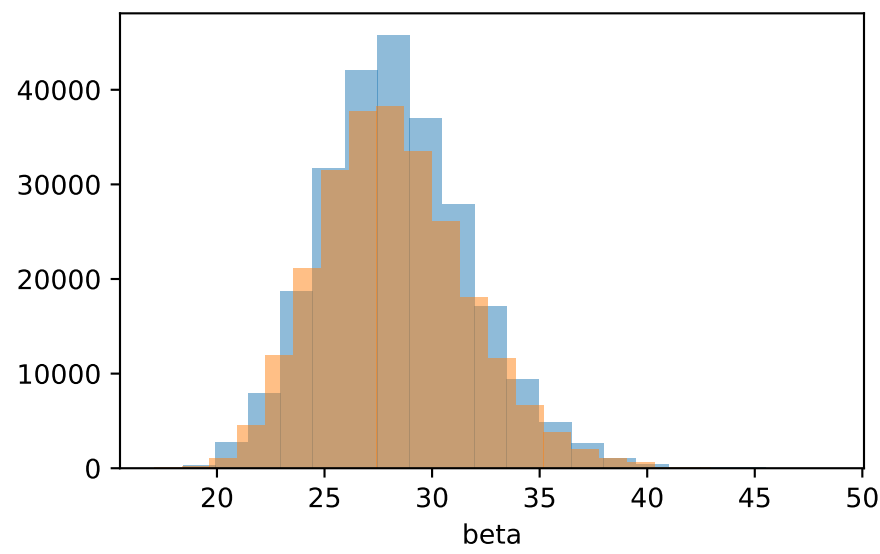

zero_i
140000
120000
100000
80000
60000
40000
20000
0
frequency
90
92
94
96
98
100
102
chi

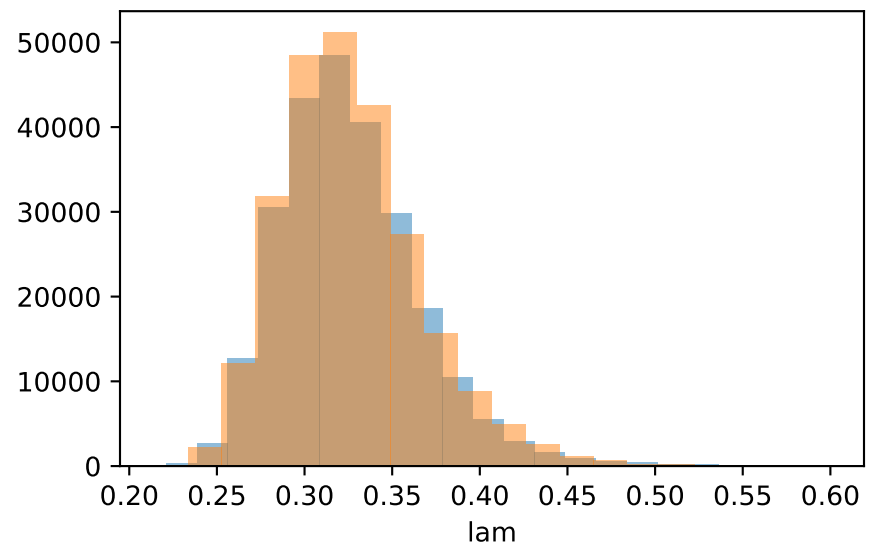

zero_i
chi
iteration
102
100
98
96
94
92
90
0
50000
100000
150000
200000
250000

one_i

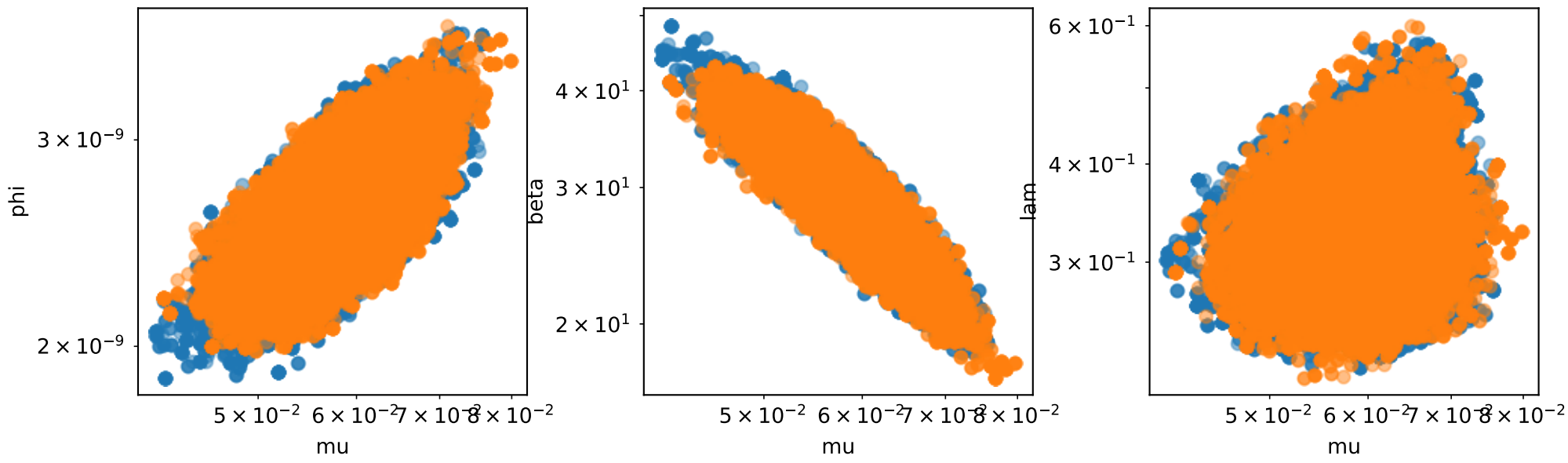

40000
30000
20000
10000
0
0.040 0.045 0.050 0.055 0.060 0.065 0.070 0.075 0.080
mu

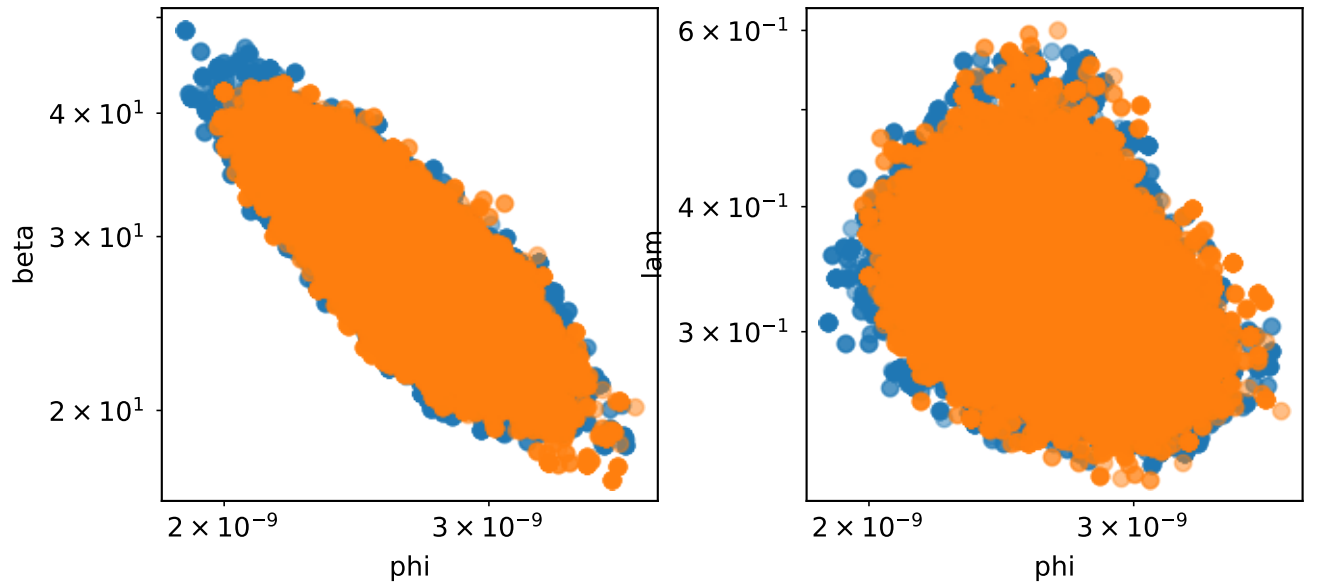

40000
30000
20000
10000
0
2.00 2.25 2.50 2.75 3.00 3.25 3.50 3.75
phi
1e−9

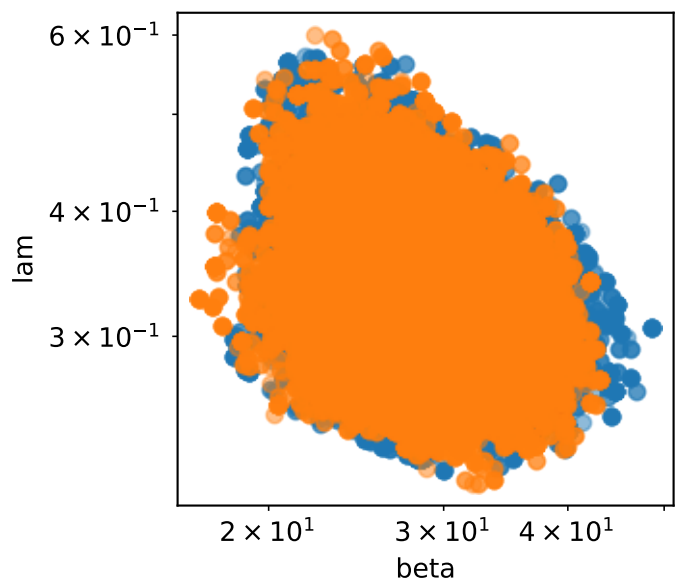

40000
30000
20000
10000
0
20 25 30 35 40 45 50
beta

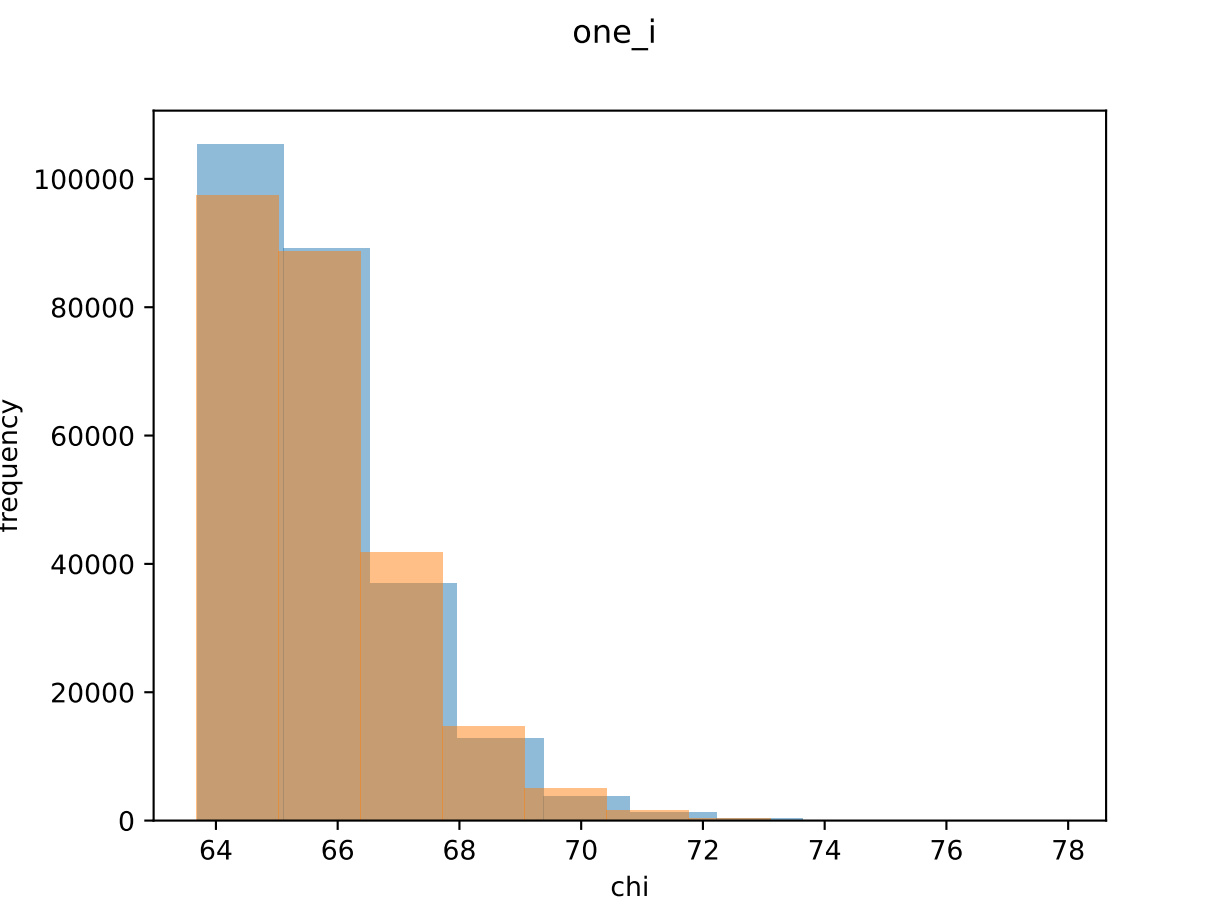

50000
40000
30000
20000
10000
0
0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60
lam

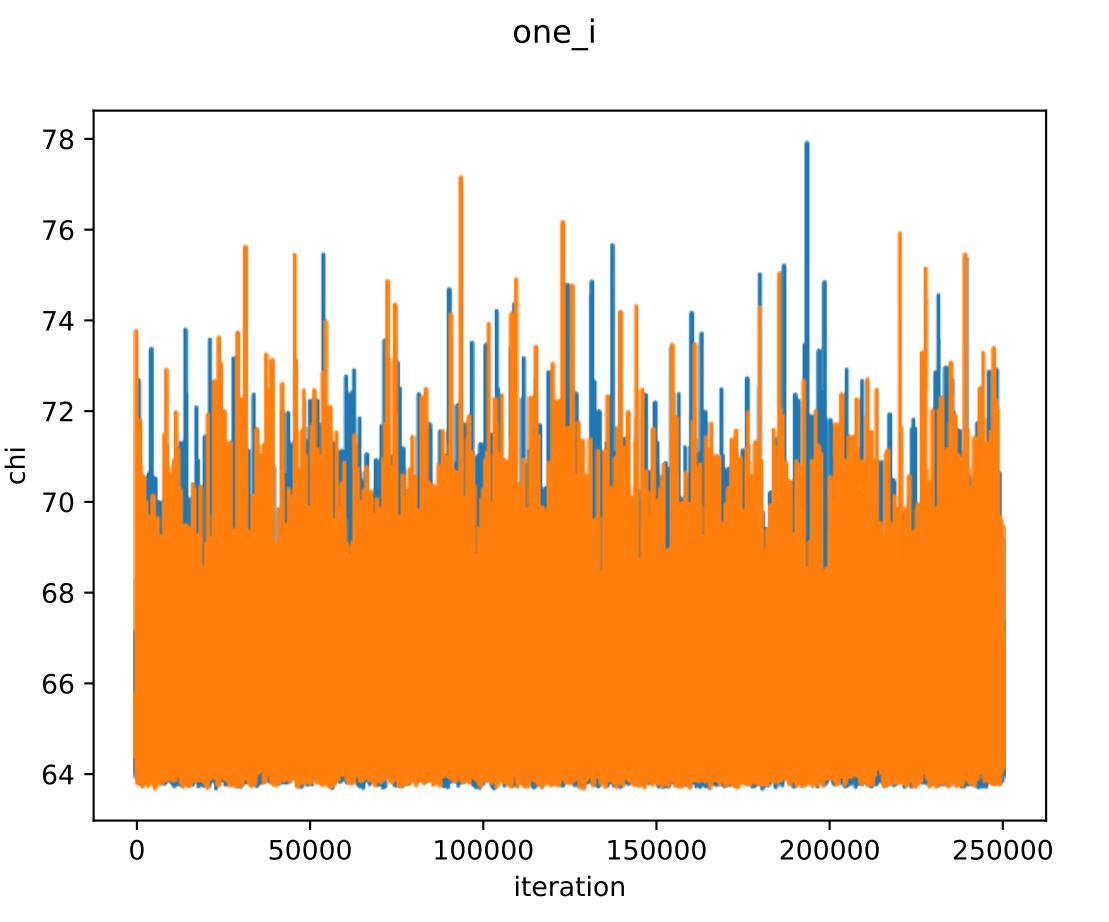
one_i


phi
beta
lam
mu
3×10^{-9}
2×10^{-9}
4×10^{1}
3×10^{1}
2×10^{1}
6×10^{-1}
4×10^{-1}
3×10^{-1}
5×10^{-2}
6×10^{-2}
7×10^{-2}
8×10^{-2}

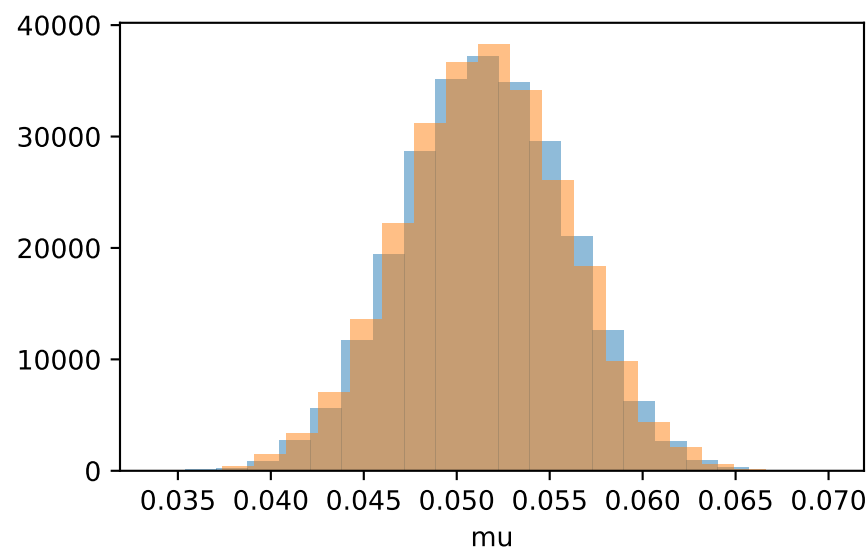

beta
lam
phi
4×10^{1}
3×10^{1}
2×10^{1}
6×10^{-1}
4×10^{-1}
3×10^{-1}
2×10^{-9}
3×10^{-9}

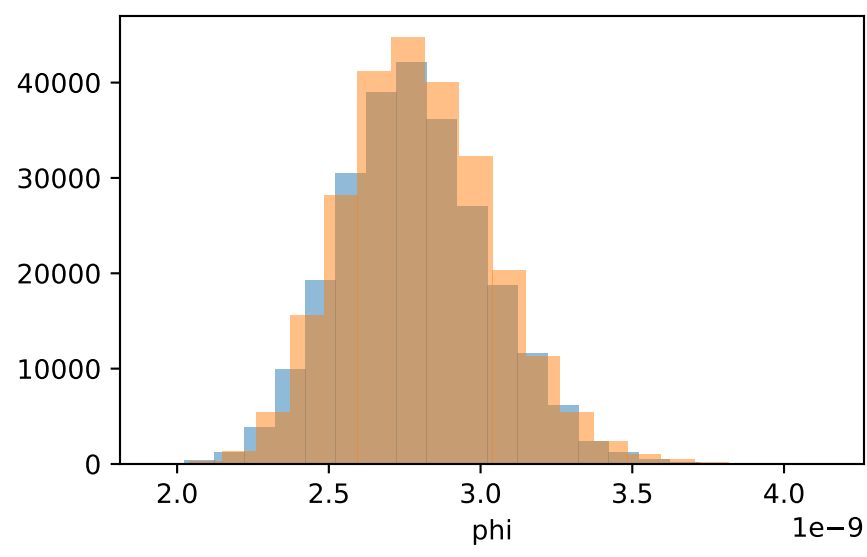

lam
beta
6×10^{-1}
4×10^{-1}
3×10^{-1}
2×10^{1}
3×10^{1}
4×10^{1}

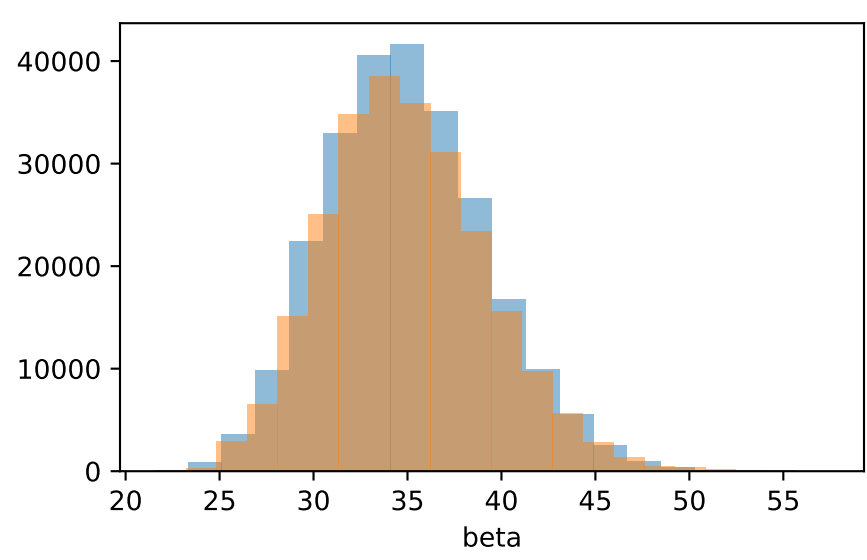

one_i
100000
80000
60000
40000
20000
0
frequency
64
66
68
70
72
74
76
78
chi

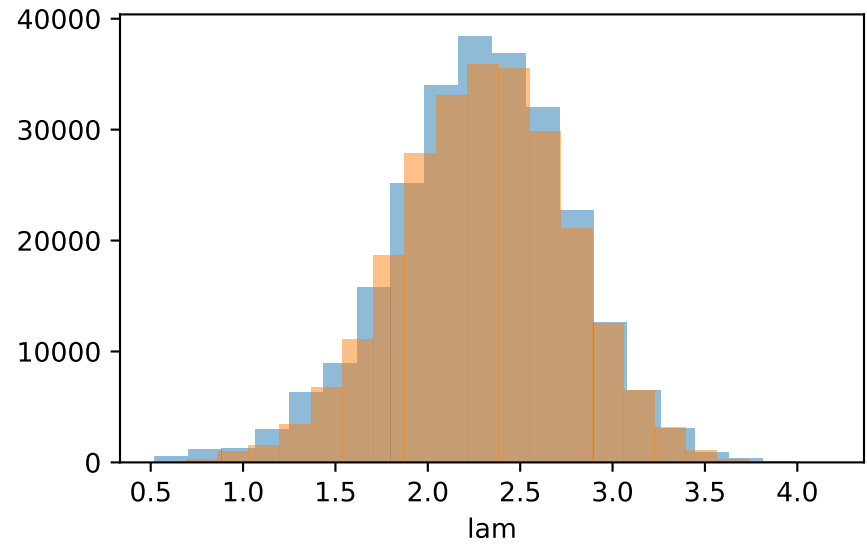

one_i
78
76
74
72
70
68
66
64
chi
0
50000
100000
150000
200000
250000
iteration

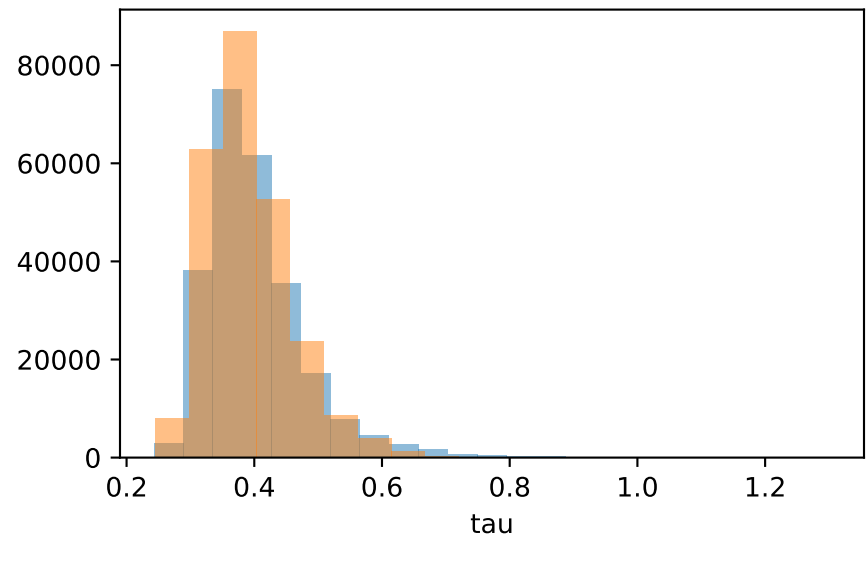
two_i


40000
30000
20000
10000
0
0.035 0.040 0.045 0.050 0.055 0.060 0.065 0.070
mu

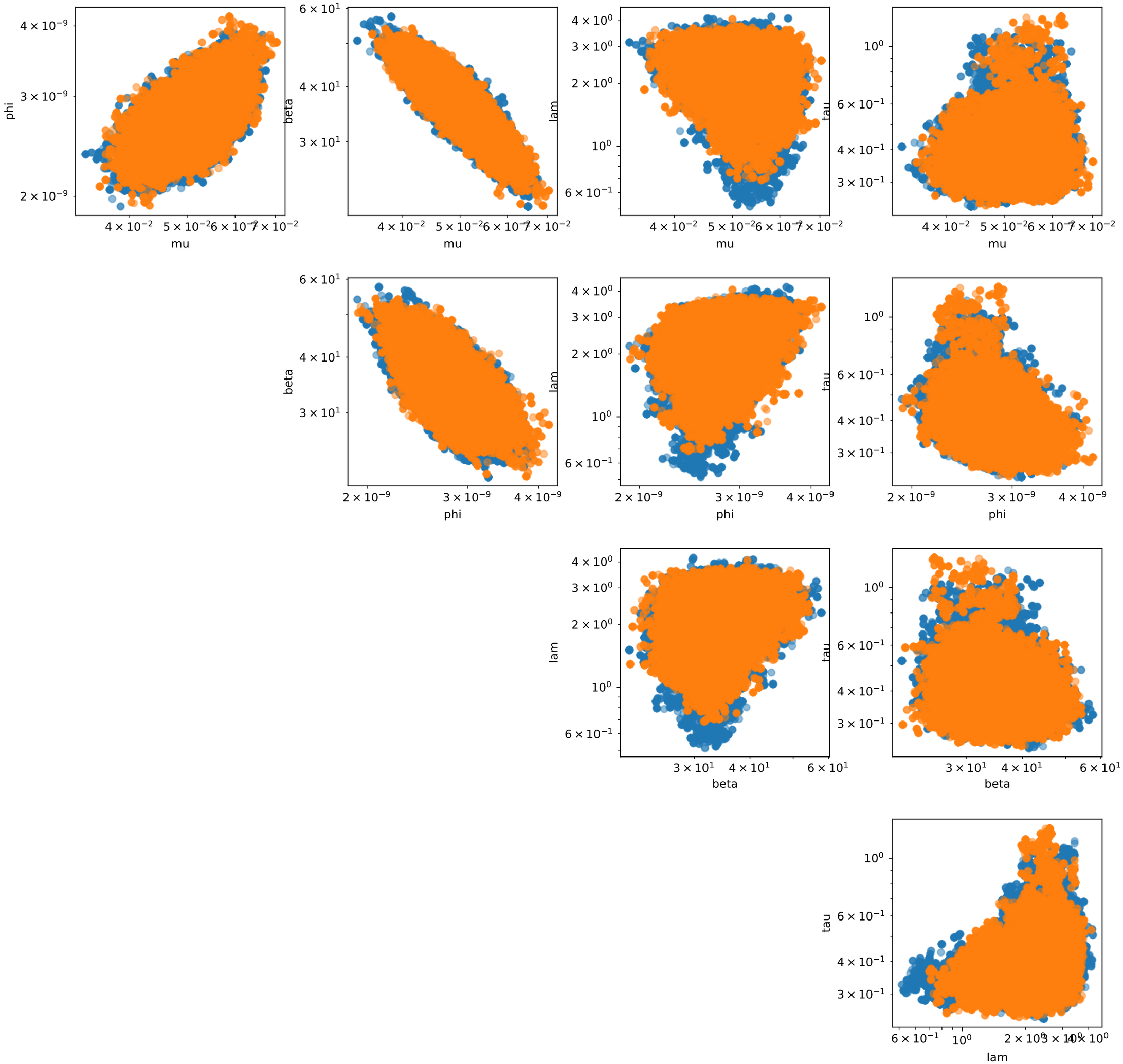

40000
30000
20000
10000
0
2.0 2.5 3.0 3.5 4.0
phi
1e−9

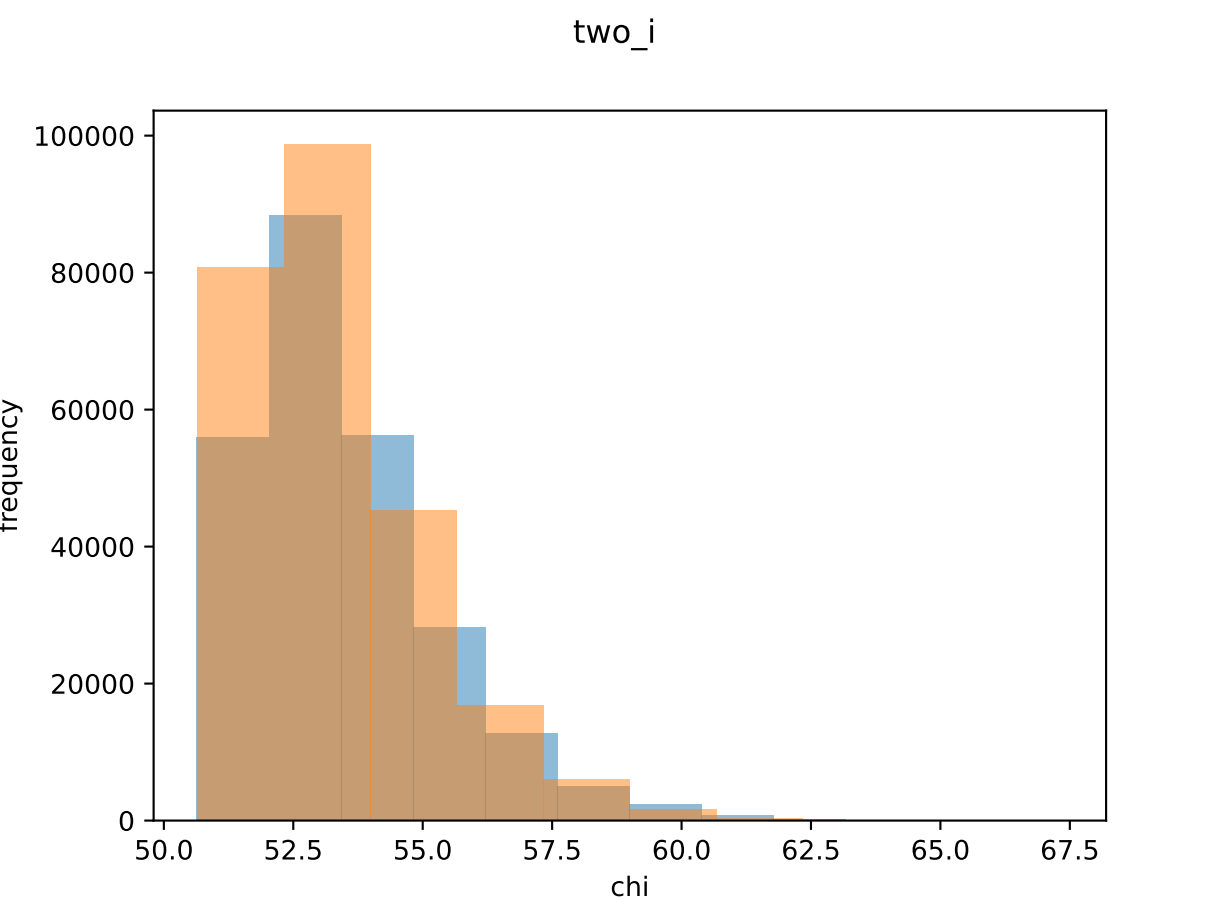

40000
30000
20000
10000
0
20 25 30 35 40 45 50 55
beta

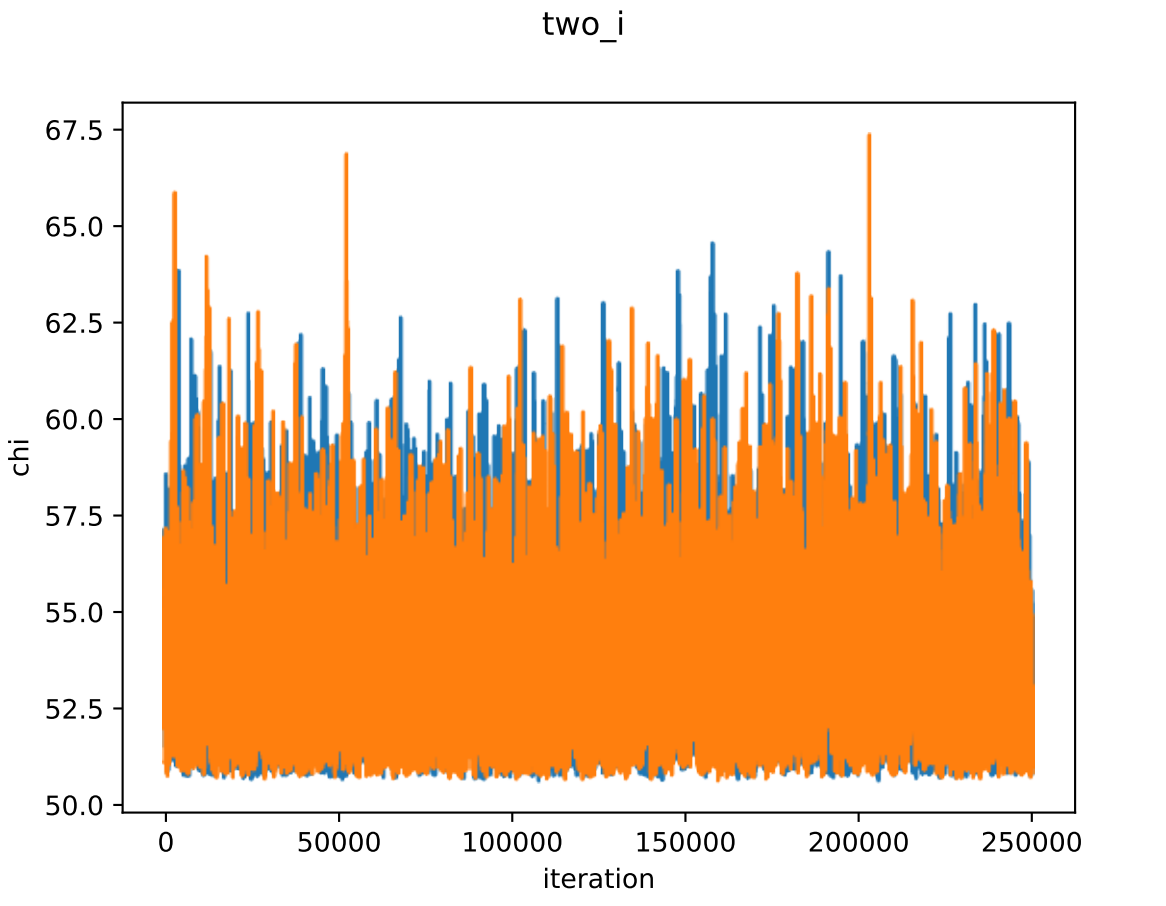

40000
30000
20000
10000
0
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
lam


80000
60000
40000
20000
0
0.2 0.4 0.6 0.8 1.0 1.2
tau

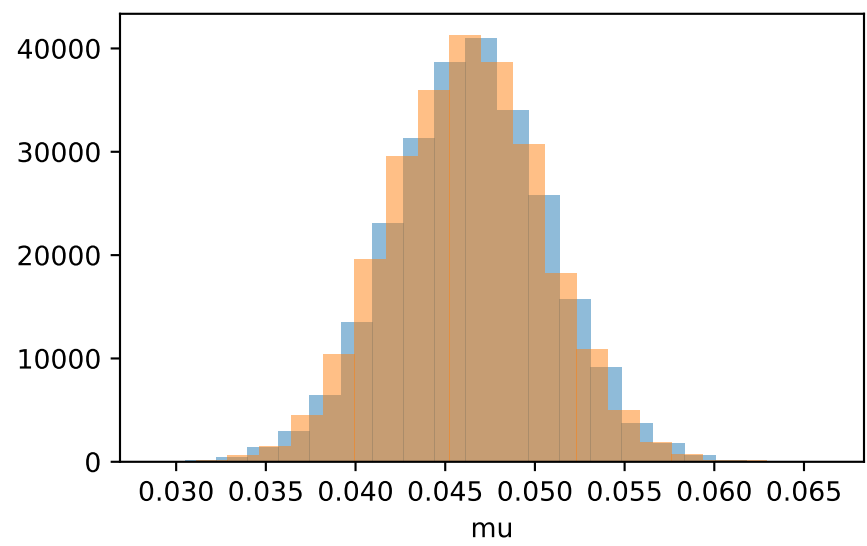
two_i

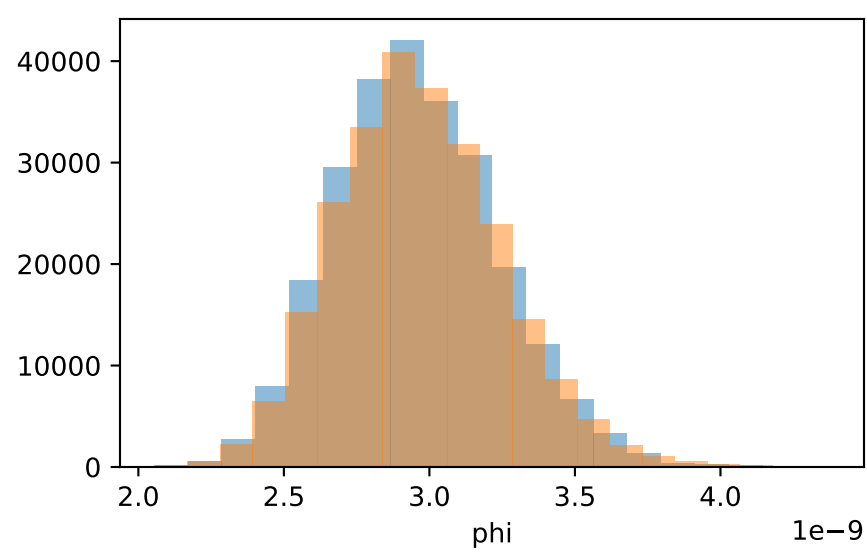


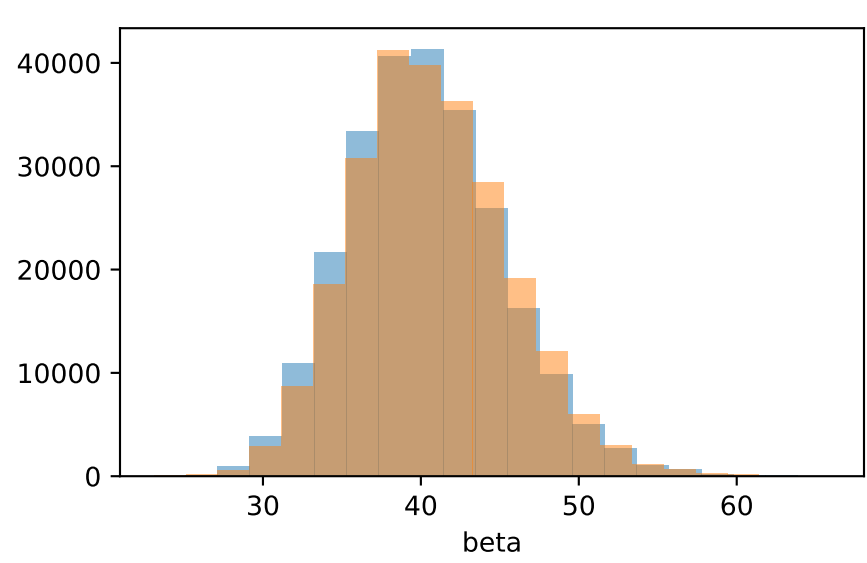

two_i
100000
80000
60000
40000
20000
0
frequency
50.0
52.5
55.0
57.5
60.0
62.5
65.0
67.5
chi

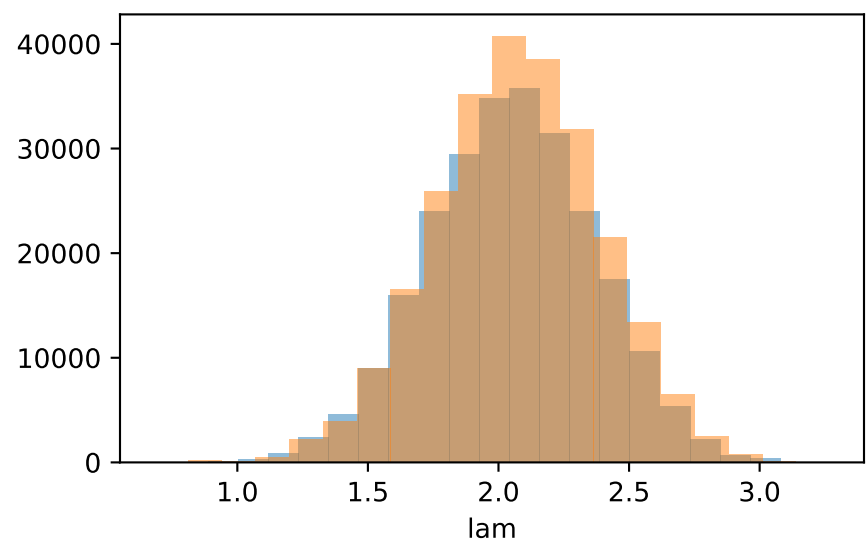

two_i
chi
iteration
67.5
65.0
62.5
60.0
57.5
55.0
52.5
50.0
0
50000
100000
150000
200000
250000

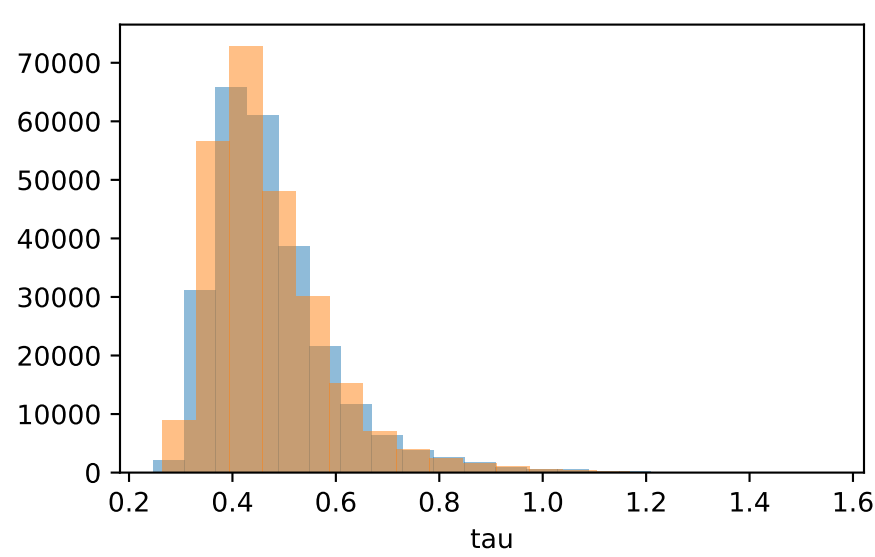
three_i


40000
30000
20000
10000
0
0.030 0.035 0.040 0.045 0.050 0.055 0.060 0.065
mu

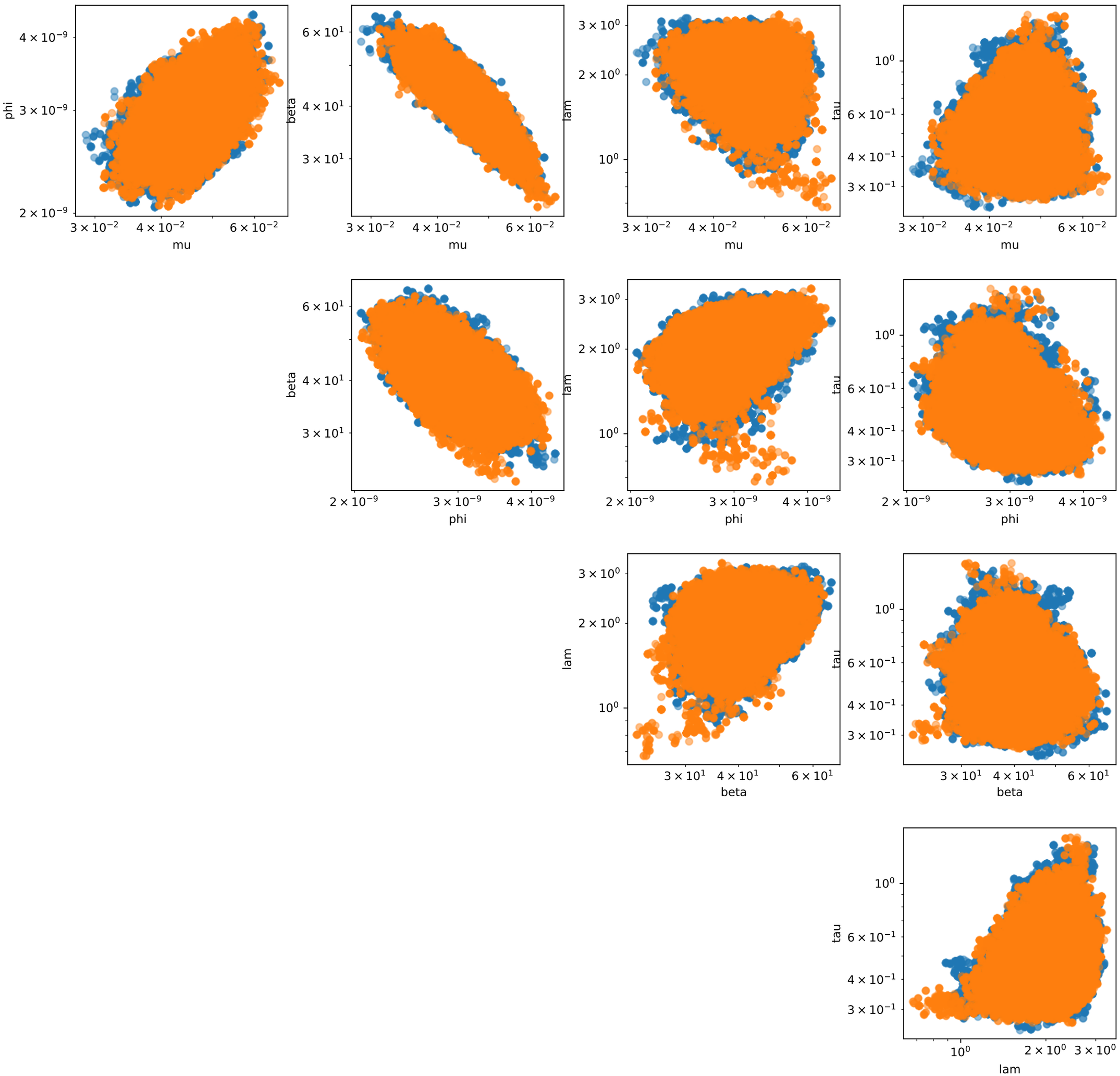

40000
30000
20000
10000
0
2.0 2.5 3.0 3.5 4.0
phi
1e−9

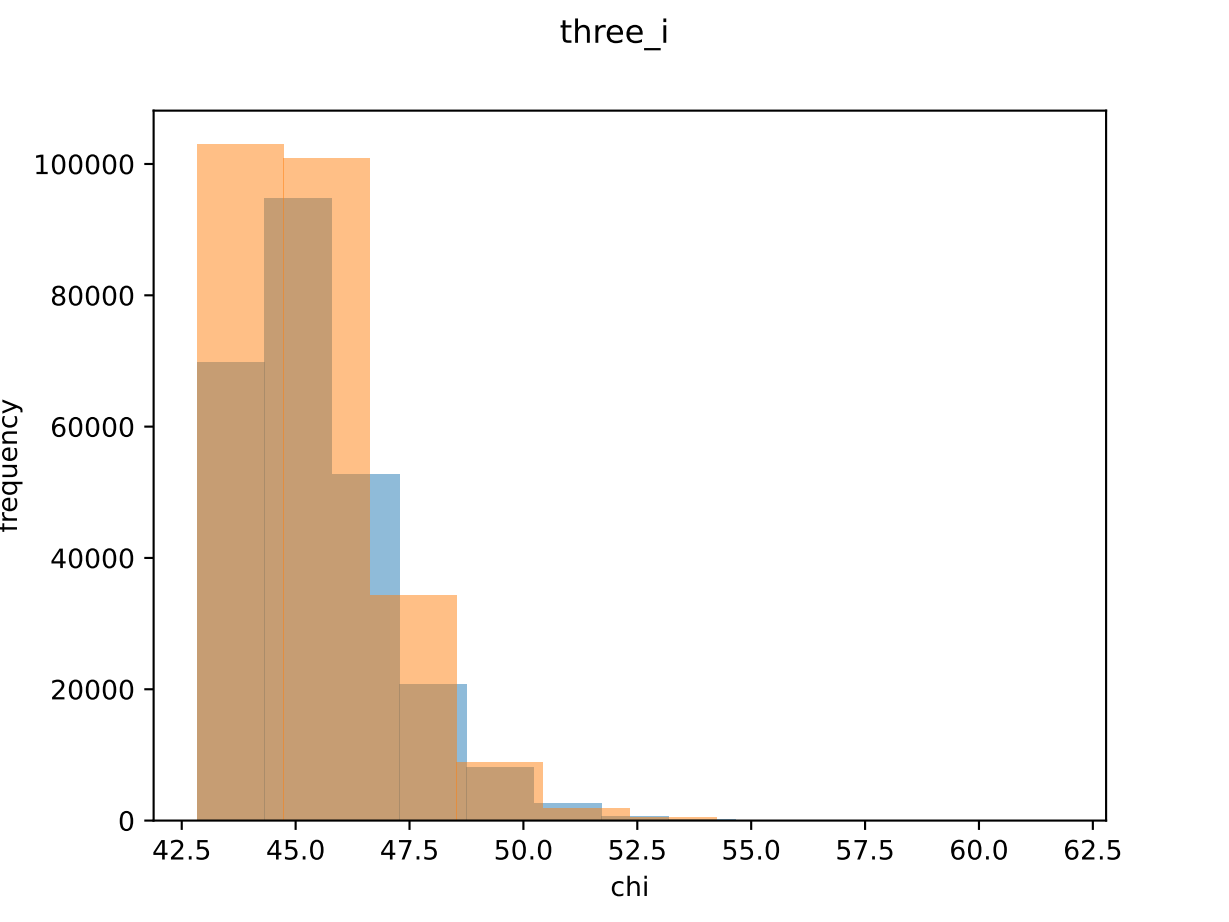

40000
30000
20000
10000
0
30 40 50 60
beta

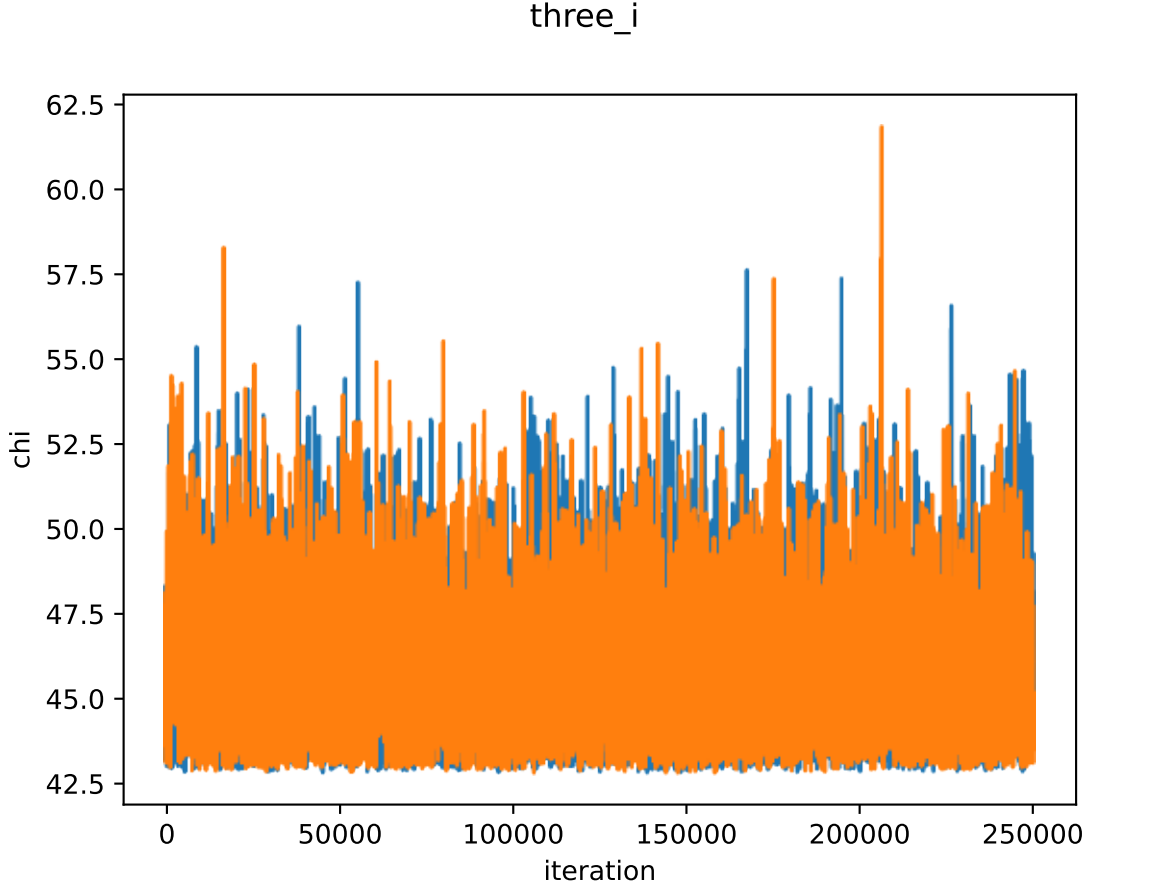

40000
30000
20000
10000
0
1.0 1.5 2.0 2.5 3.0
lam


70000
60000
50000
40000
30000
20000
10000
0
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
tau

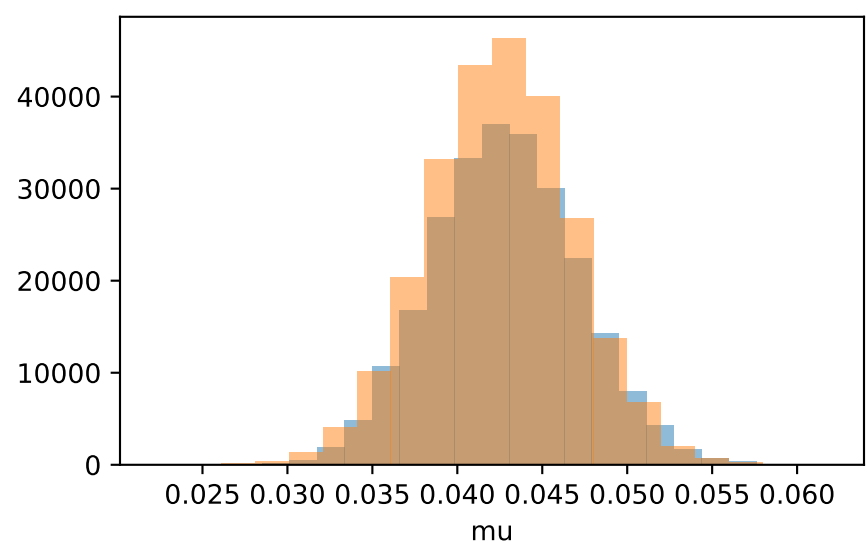
three_i

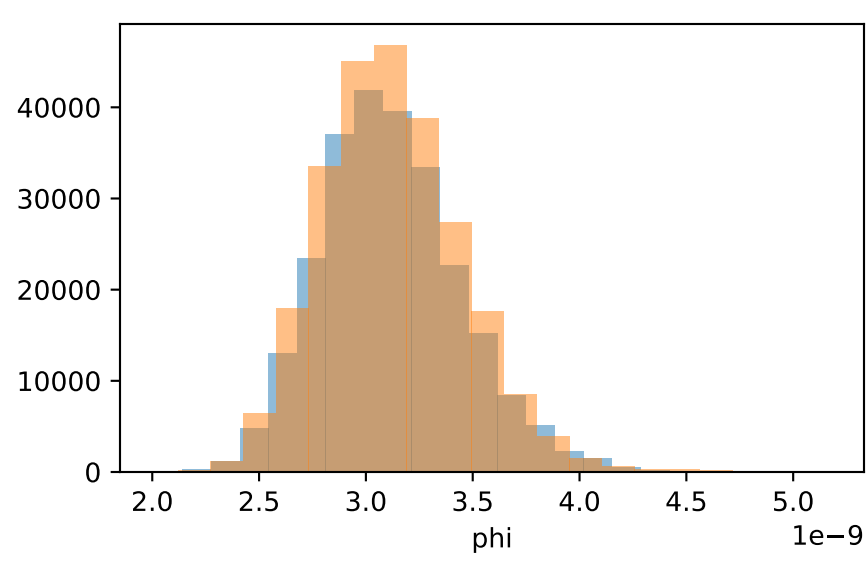


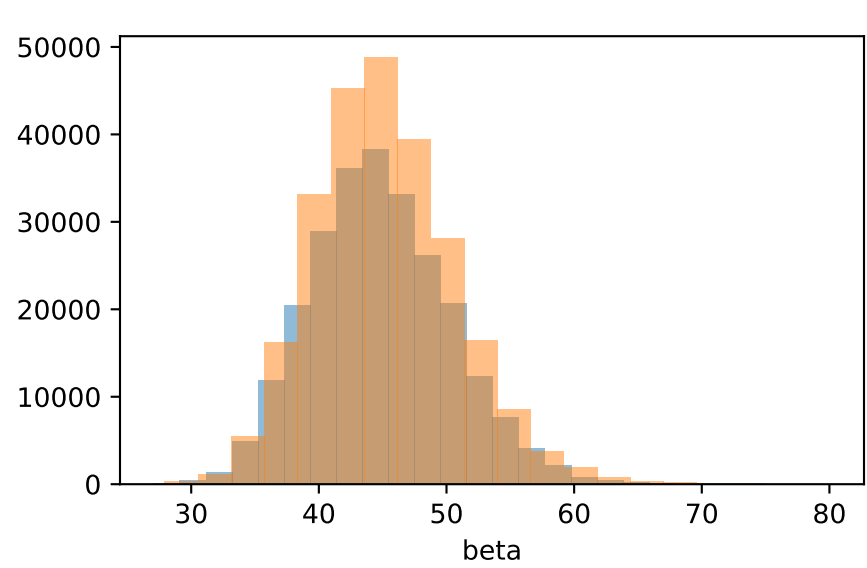

three_i
100000
80000
60000
40000
20000
0
frequency
42.5
45.0
47.5
50.0
52.5
55.0
57.5
60.0
62.5
chi

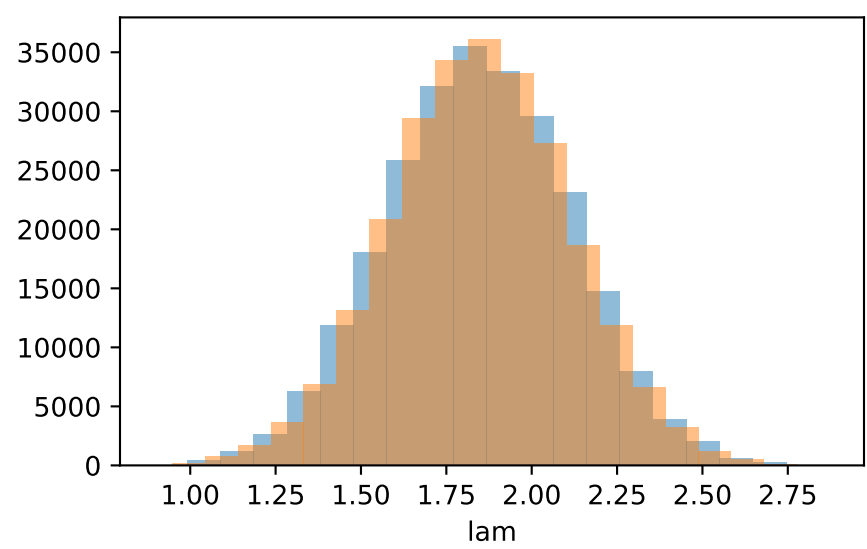

three_i
62.5
60.0
57.5
55.0
52.5
50.0
47.5
45.0
42.5
chi
0
50000
100000
150000
200000
250000
iteration

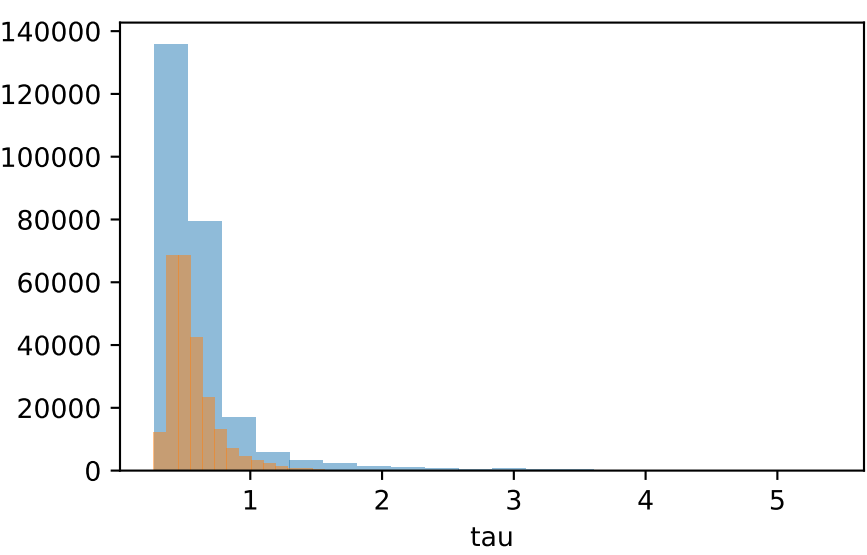
four_i


40000
30000
20000
10000
0
0.025 0.030 0.035 0.040 0.045 0.050 0.055 0.060
mu

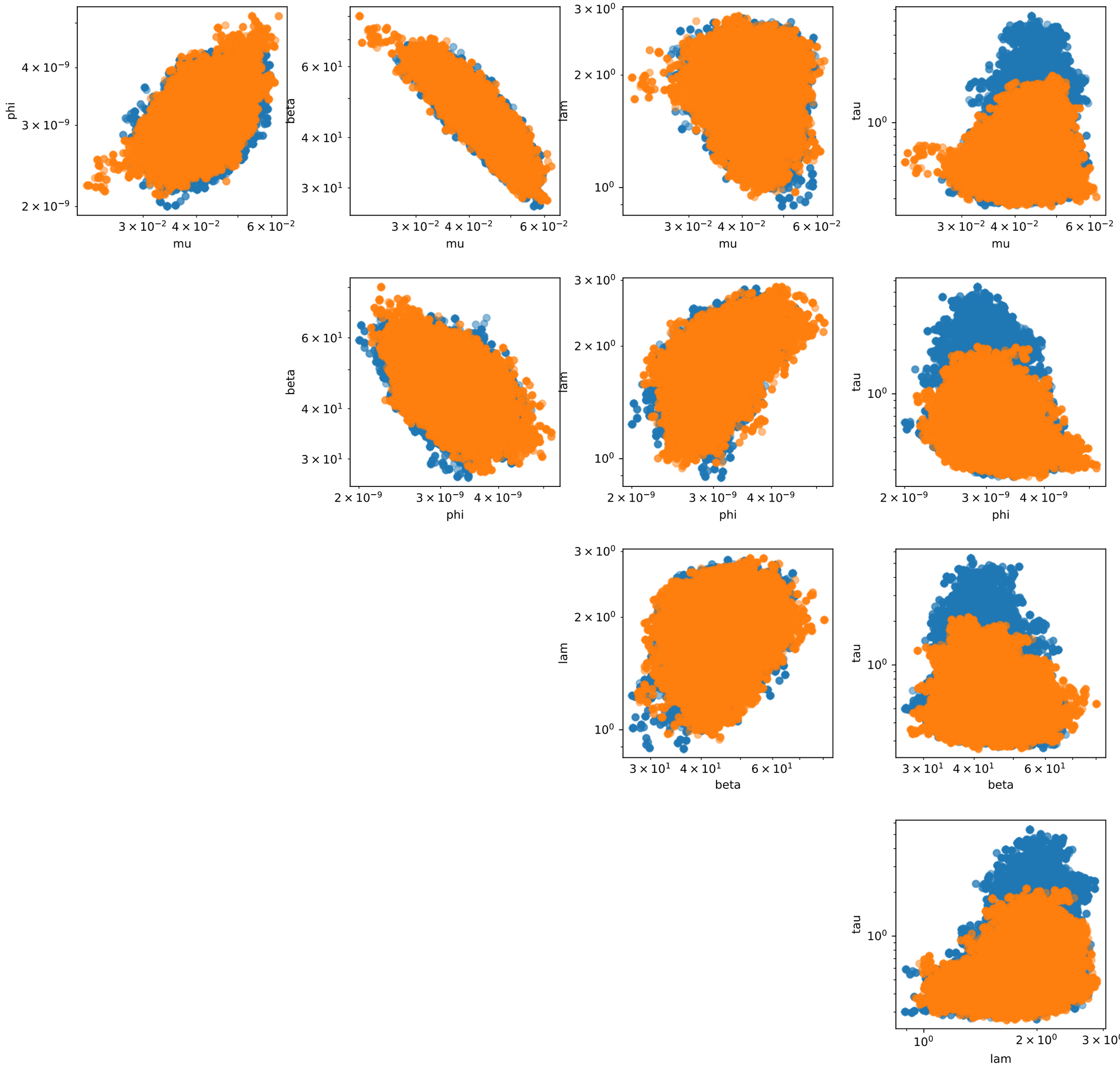

40000
30000
20000
10000
0
2.0 2.5 3.0 3.5 4.0 4.5 5.0
phi
1e−9

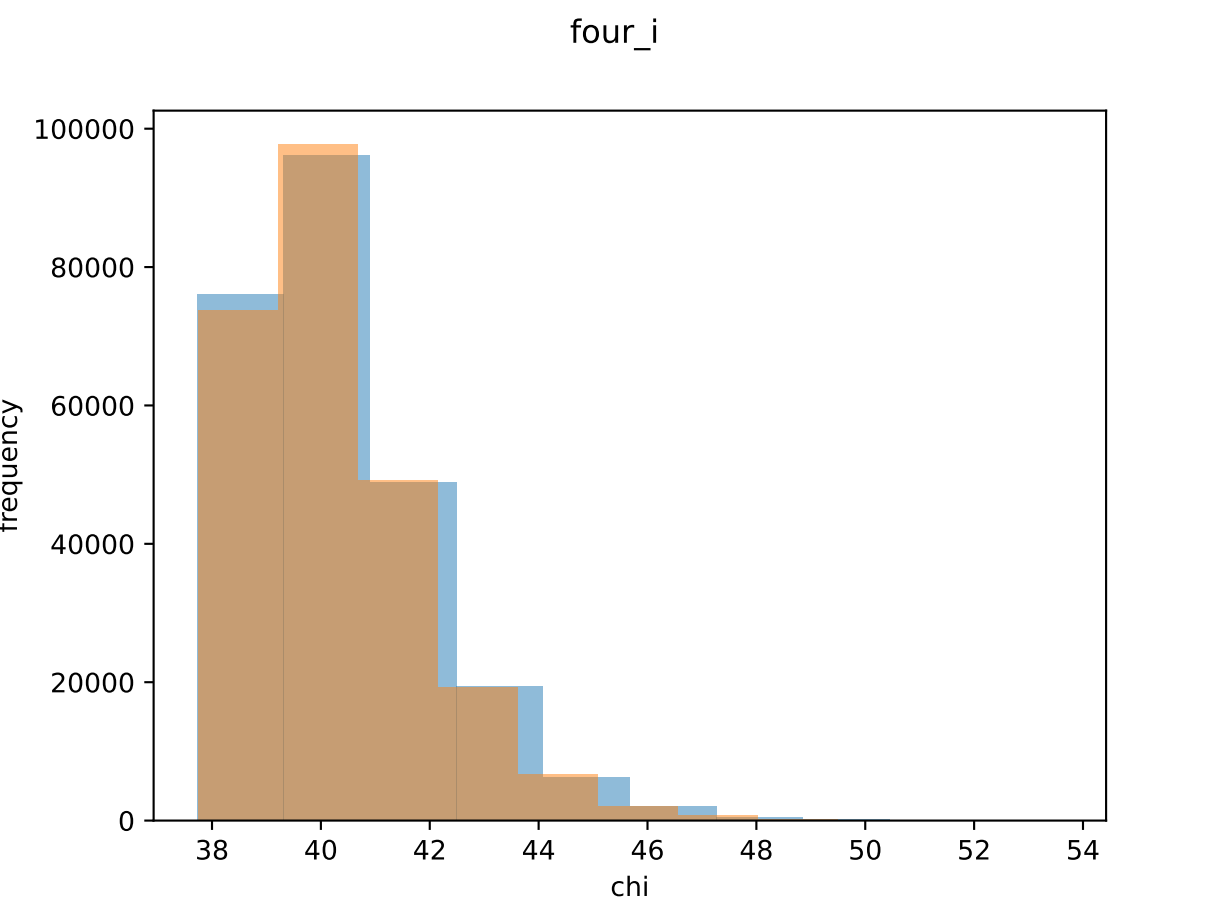

50000
40000
30000
20000
10000
0
30 40 50 60 70 80
beta

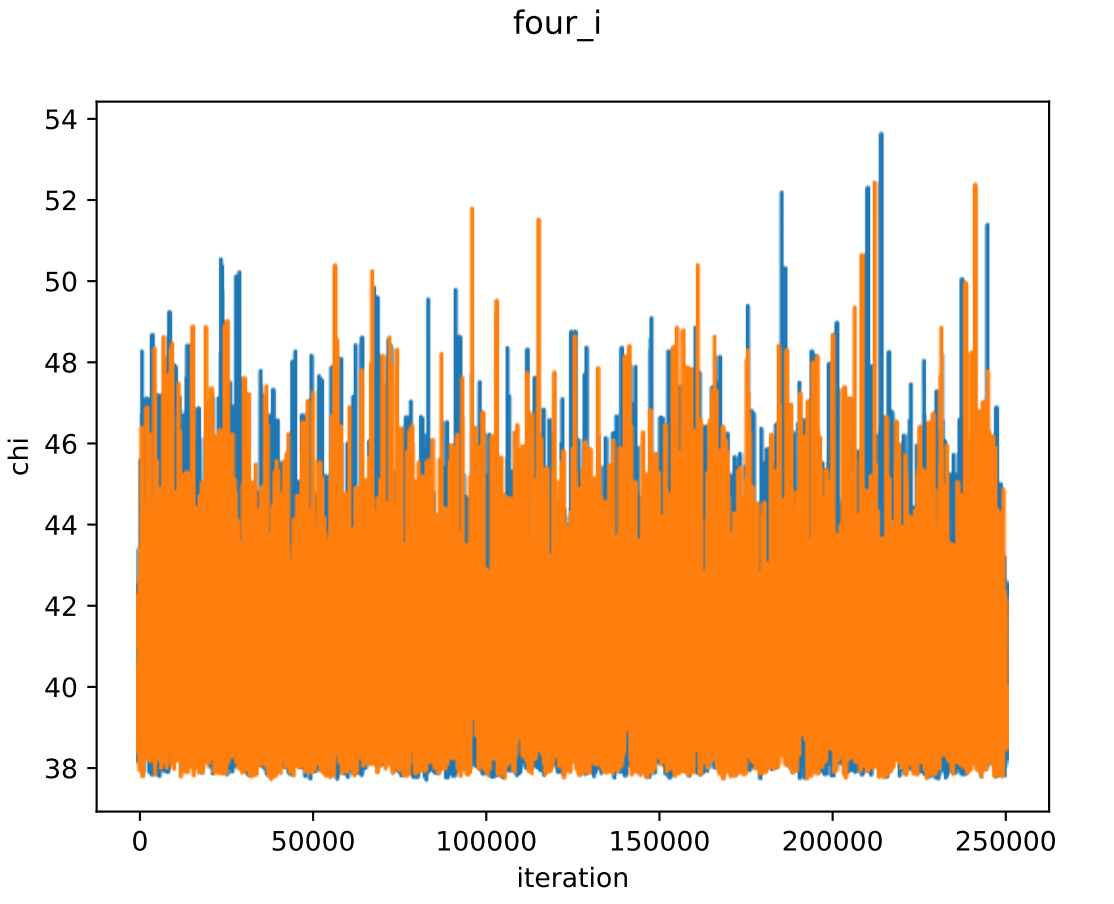

35000
30000
25000
20000
15000
10000
5000
0
1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75
lam


140000
120000
100000
80000
60000
40000
20000
0
1 2 3 4 5
tau

four_i




four_i
100000
80000
60000
40000
20000
0
frequency
38
40
42
44
46
48
50
52
54
chi


four_i
chi
iteration
54
52
50
48
46
44
42
40
38
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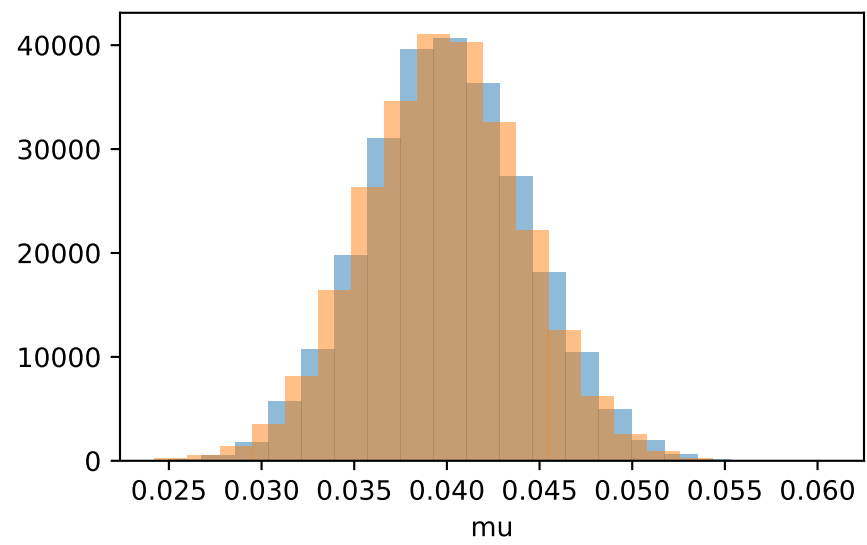
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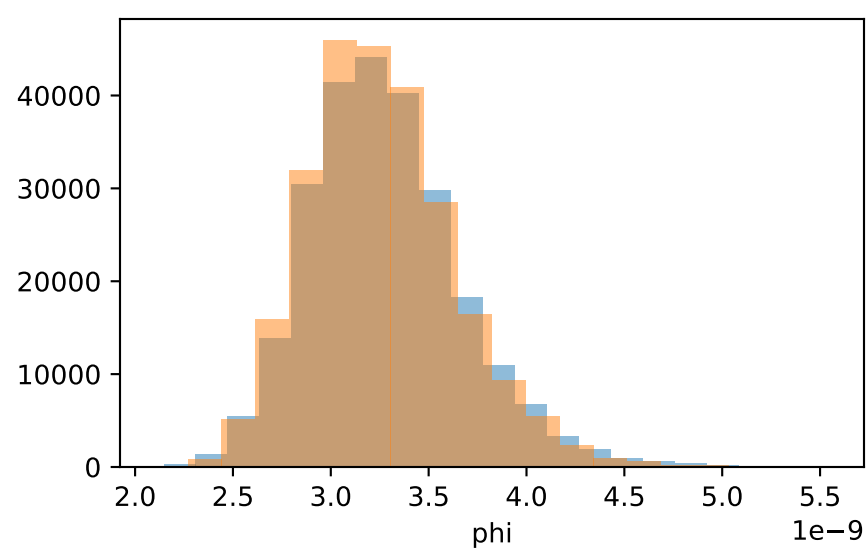
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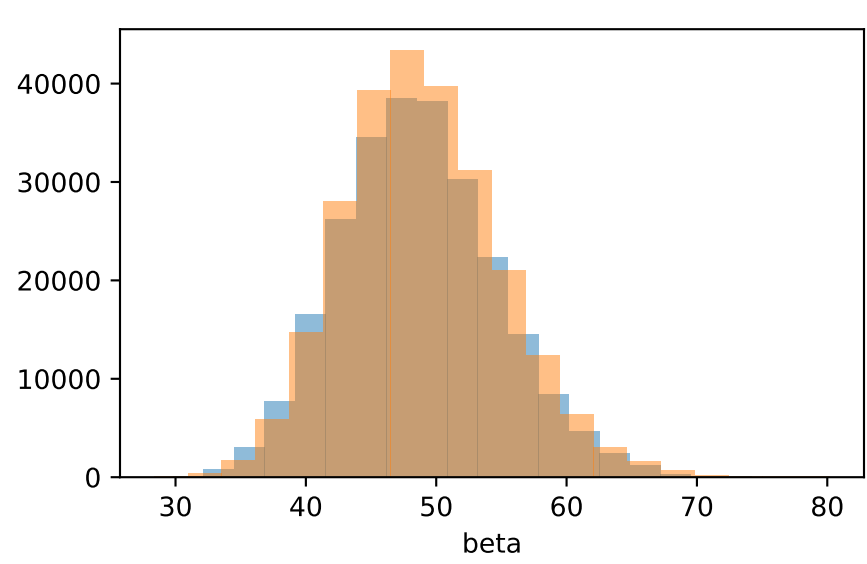
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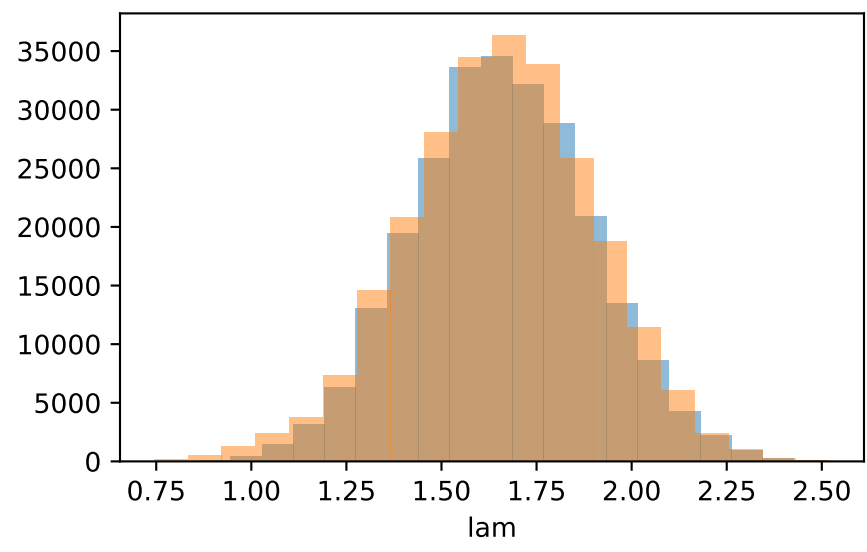
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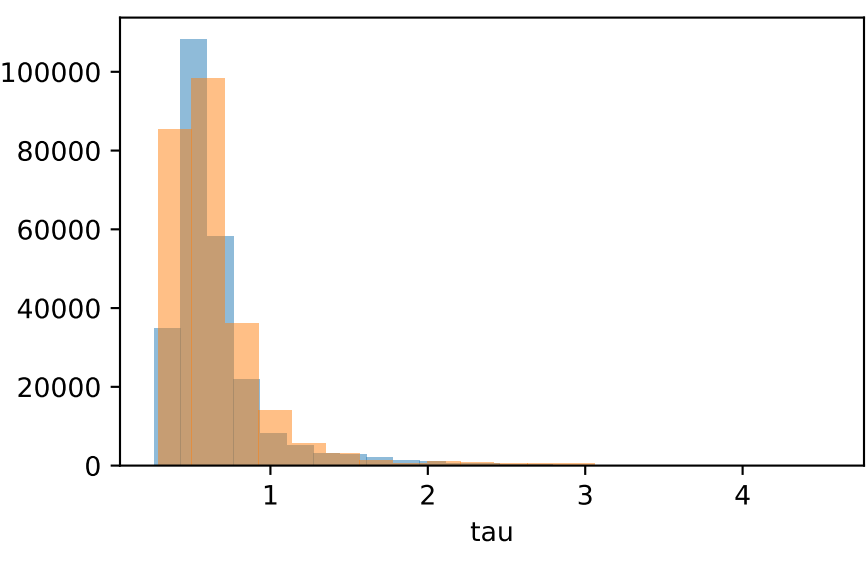
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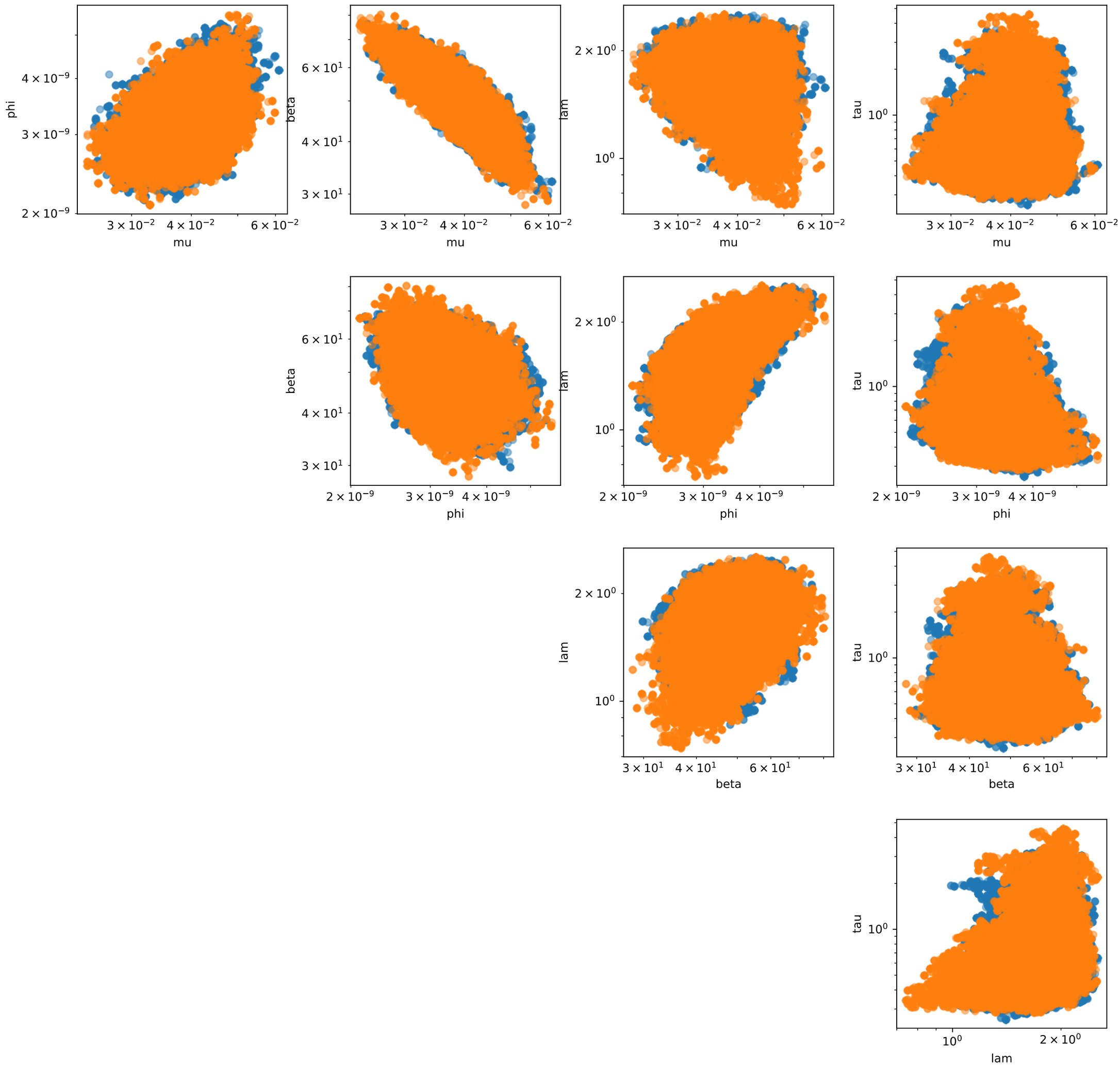

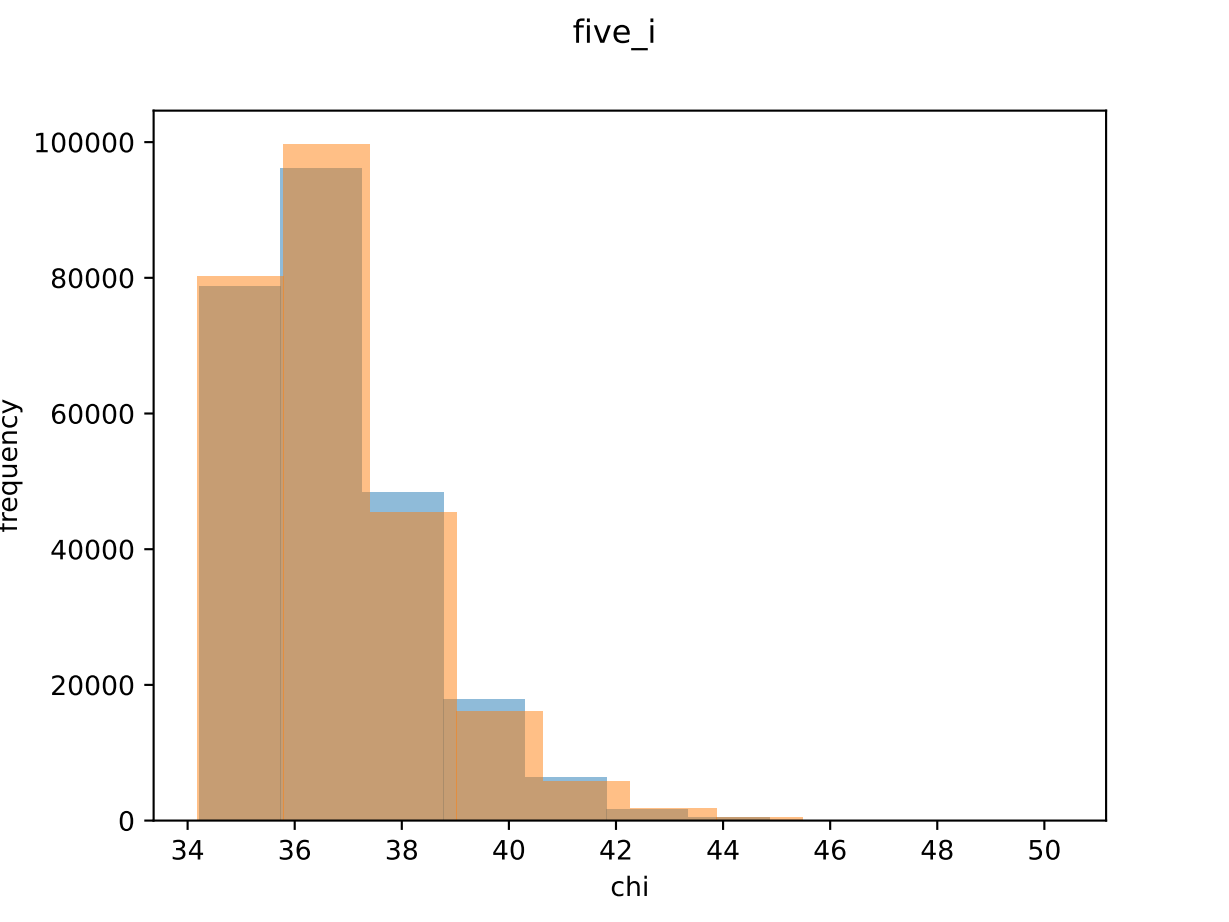
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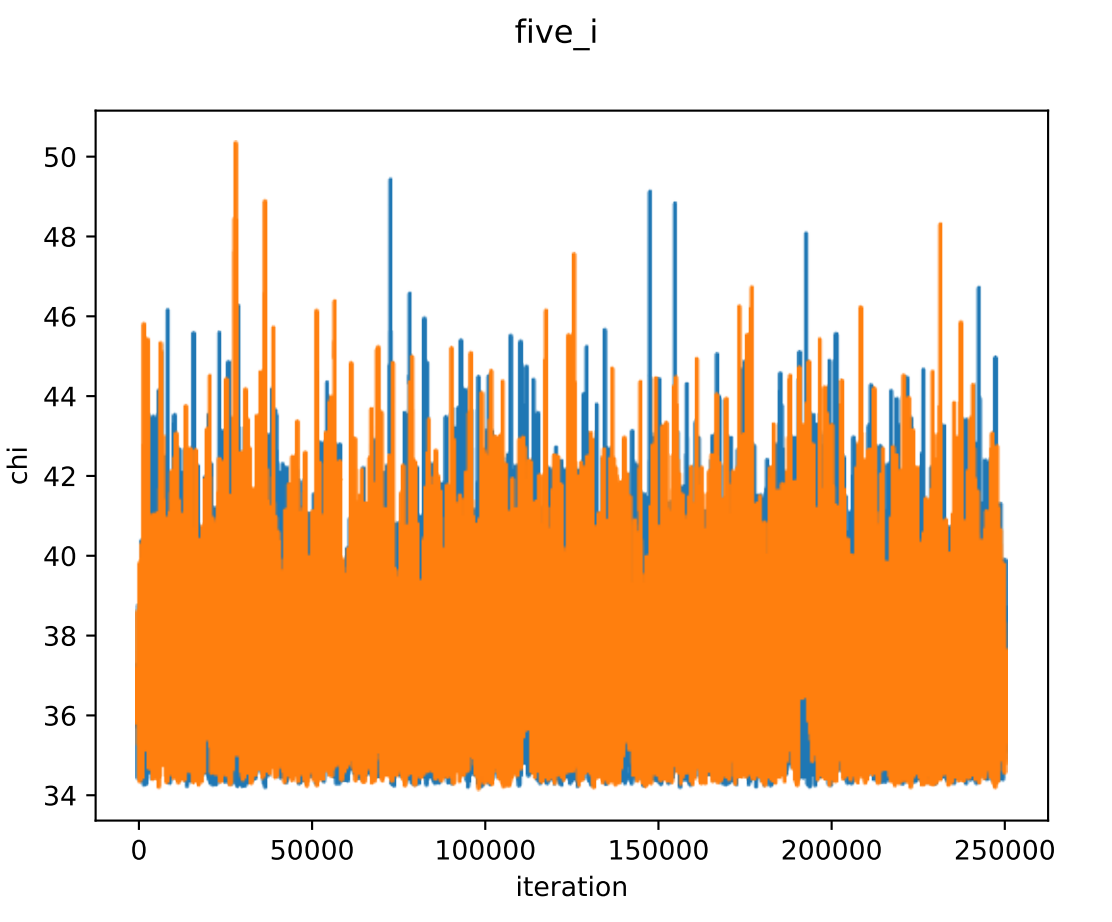
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