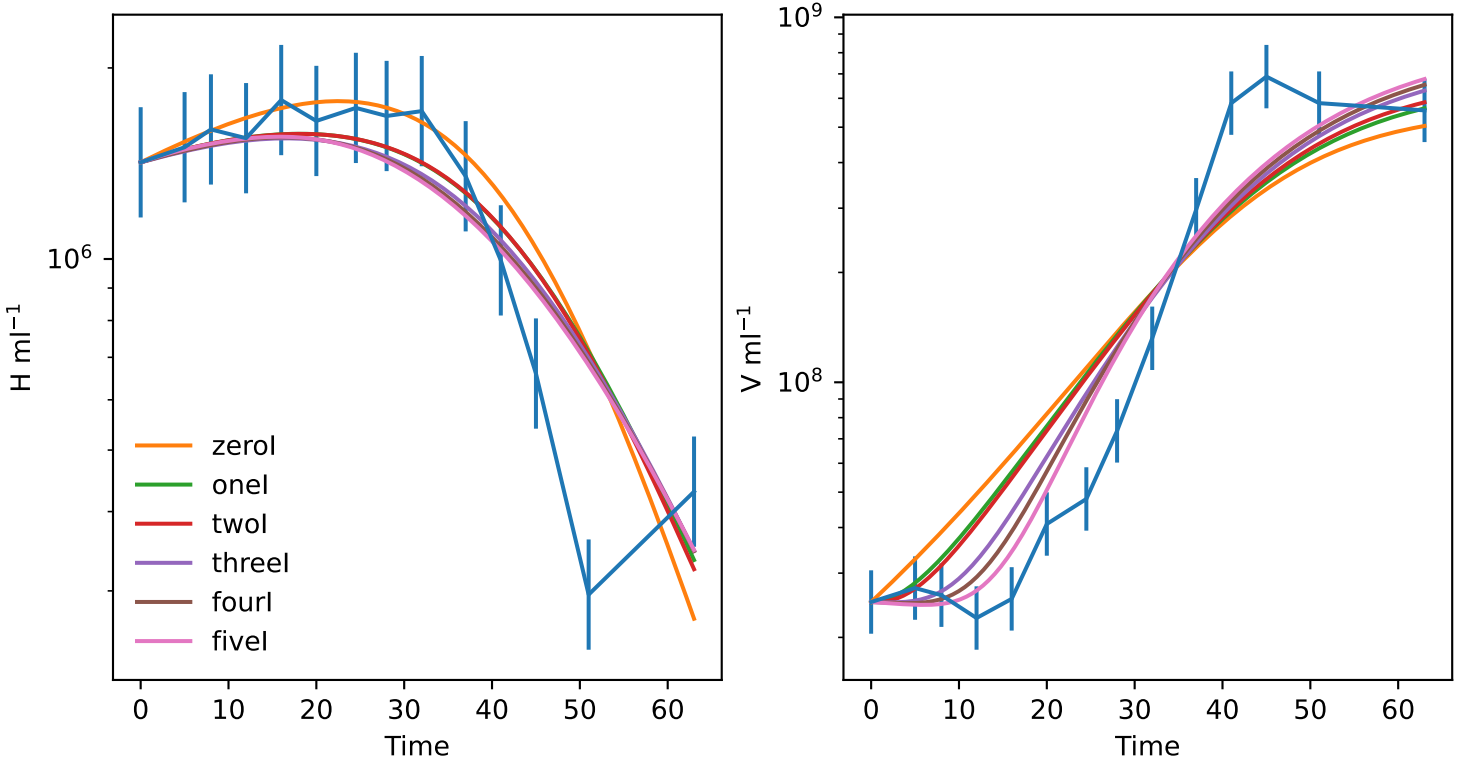
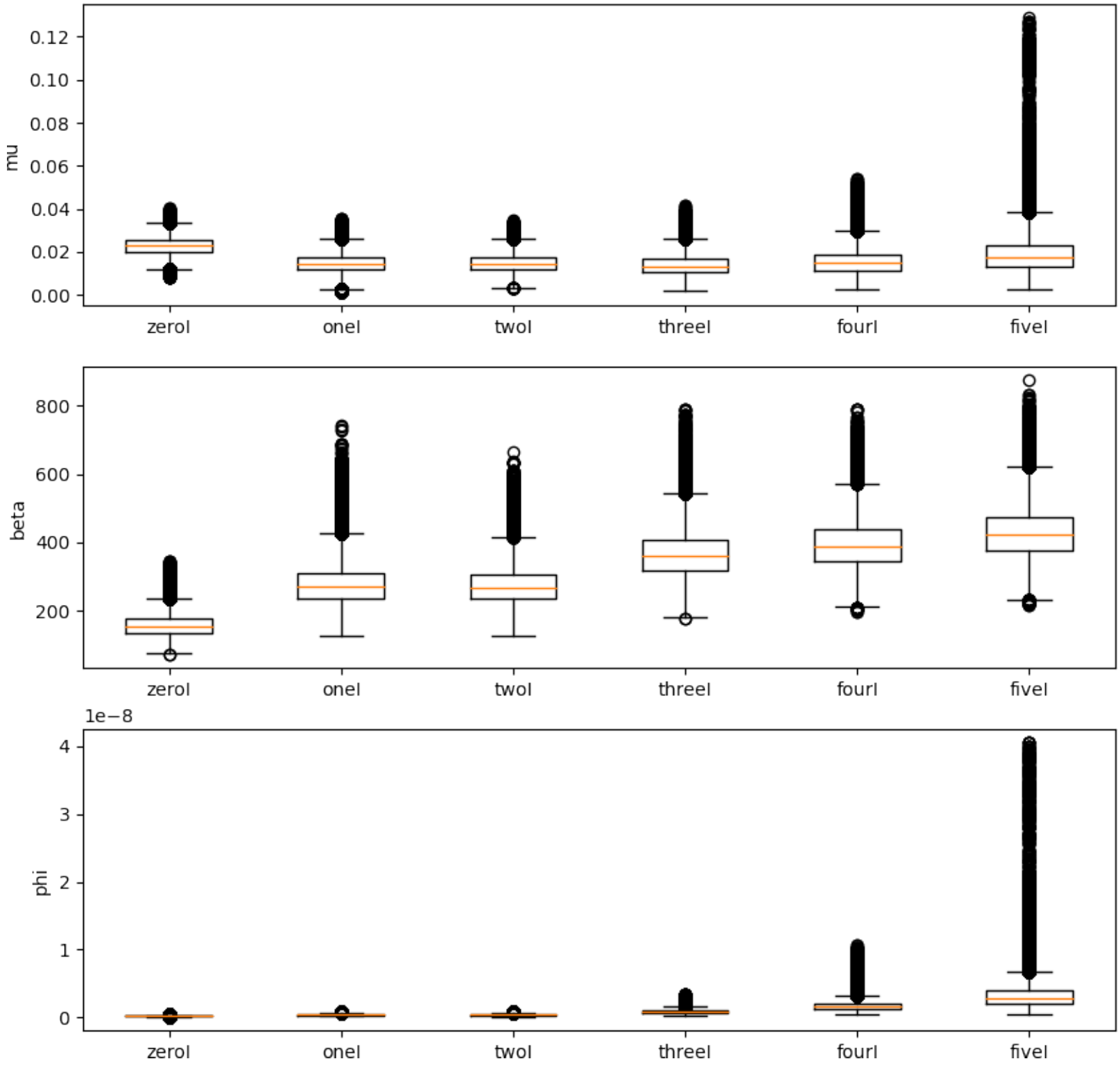
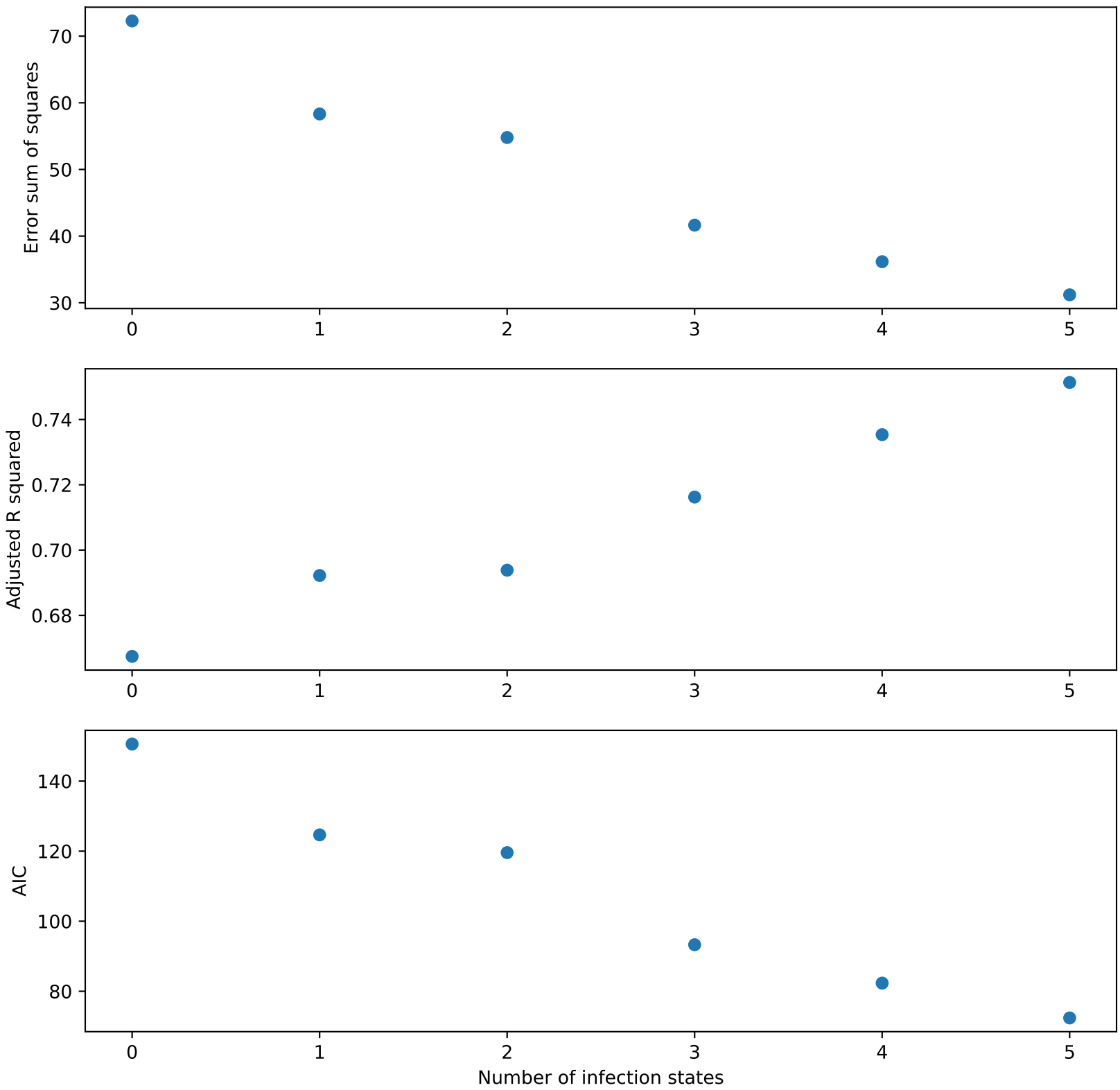
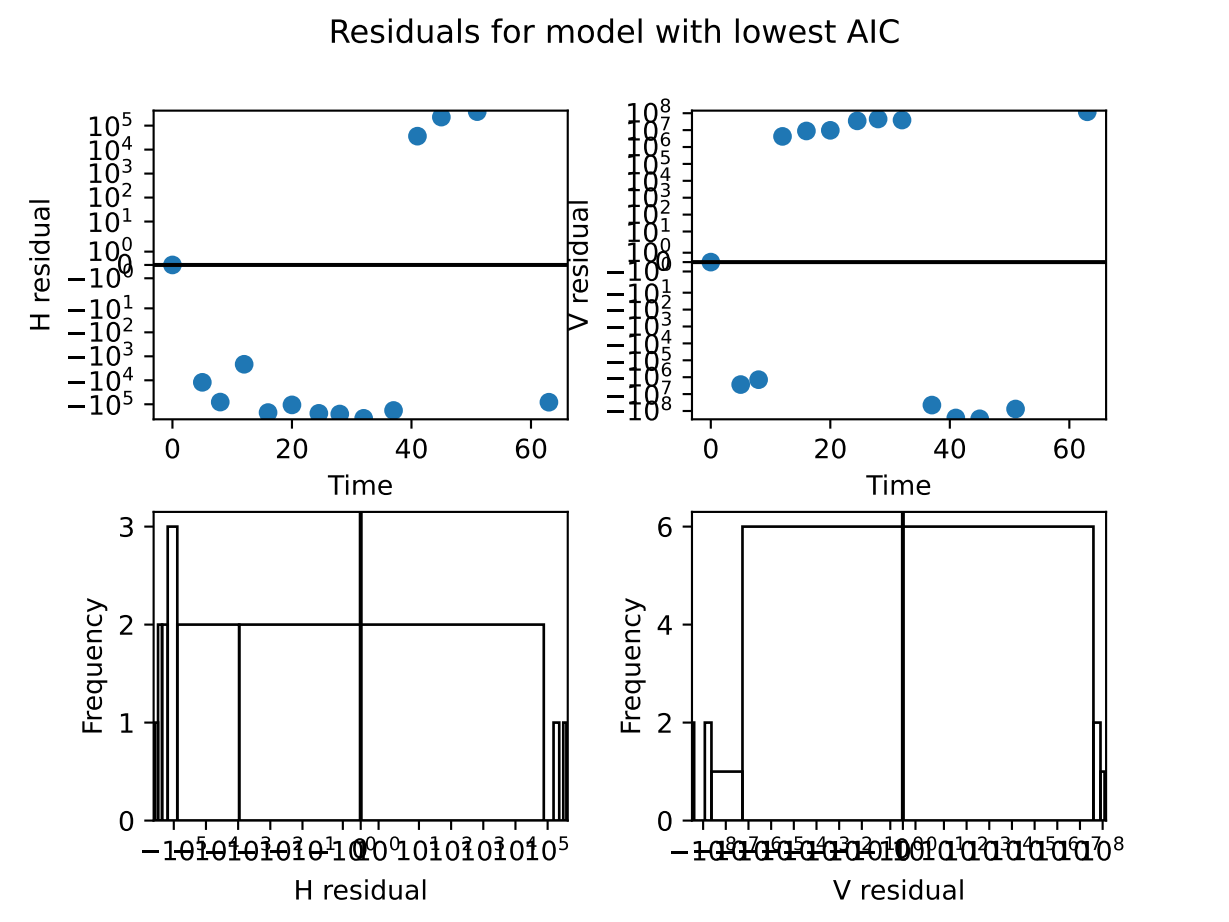

Baudoux32
H ml^{-1}
10^6
V ml^{-1}
10^9
10^8
zerol
onel
twol
threel
fourl
fivel
0
10
20
30
40
50
60
Time
Time

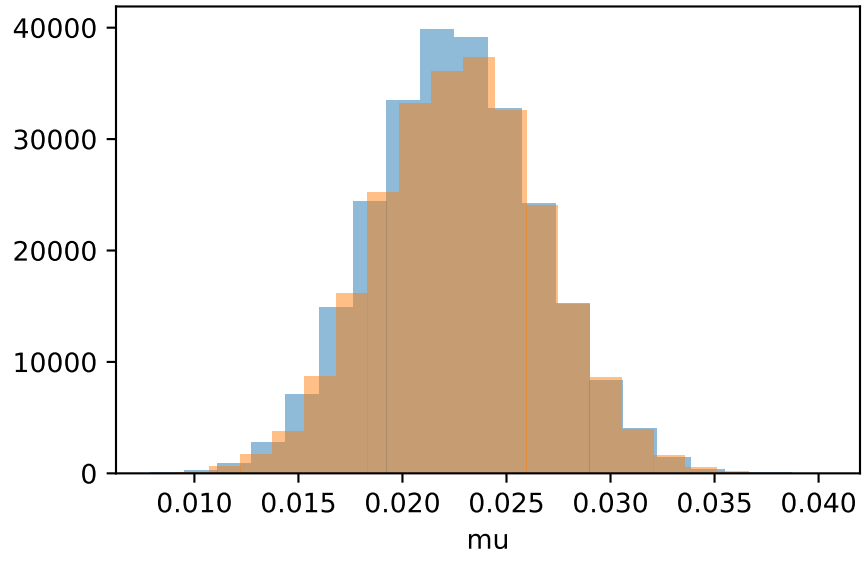
Baudoux32

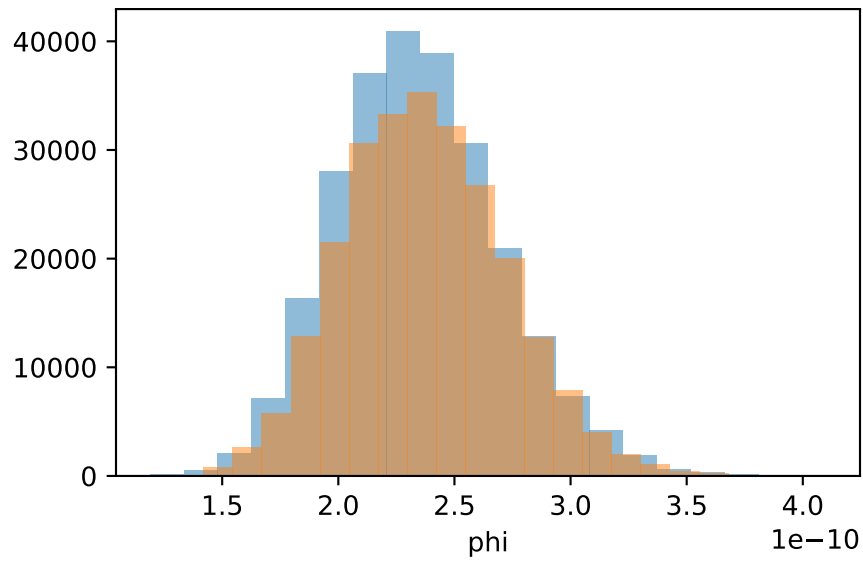

mu
0.12
0.10
0.08
0.06
0.04
0.02
0.00
zeroI
oneI
twoI
threeI
fourI
fiveI
beta
800
600
400
200
zeroI
oneI
twoI
threeI
fourI
fiveI
1e−8
phi
4
3
2
1
0
zeroI
oneI
twoI
threeI
fourI
fiveI

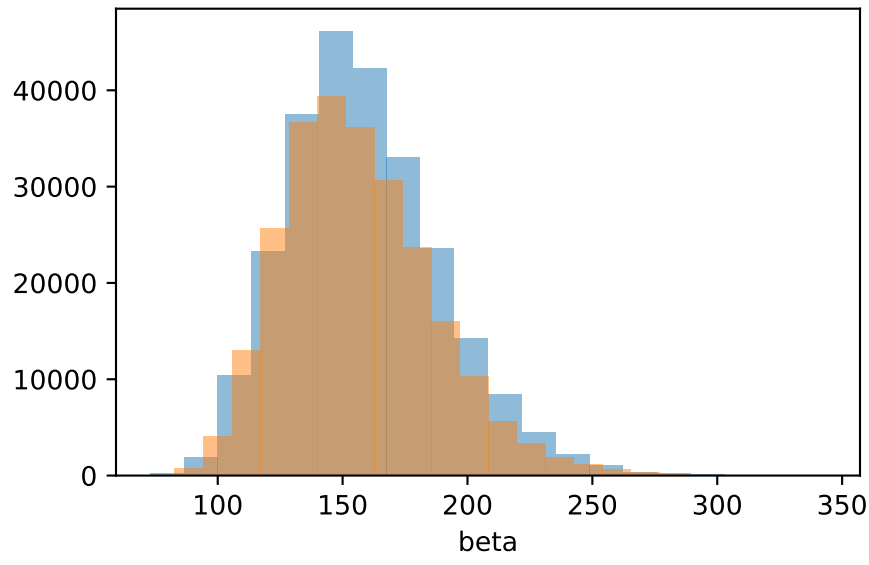

Baudoux32
Error sum of squares
70
60
50
40
30
0
1
2
3
4
5
Adjusted R squared
0.74
0.72
0.70
0.68
0
1
2
3
4
5
AIC
140
120
100
80
0
1
2
3
4
5
Number of infection states

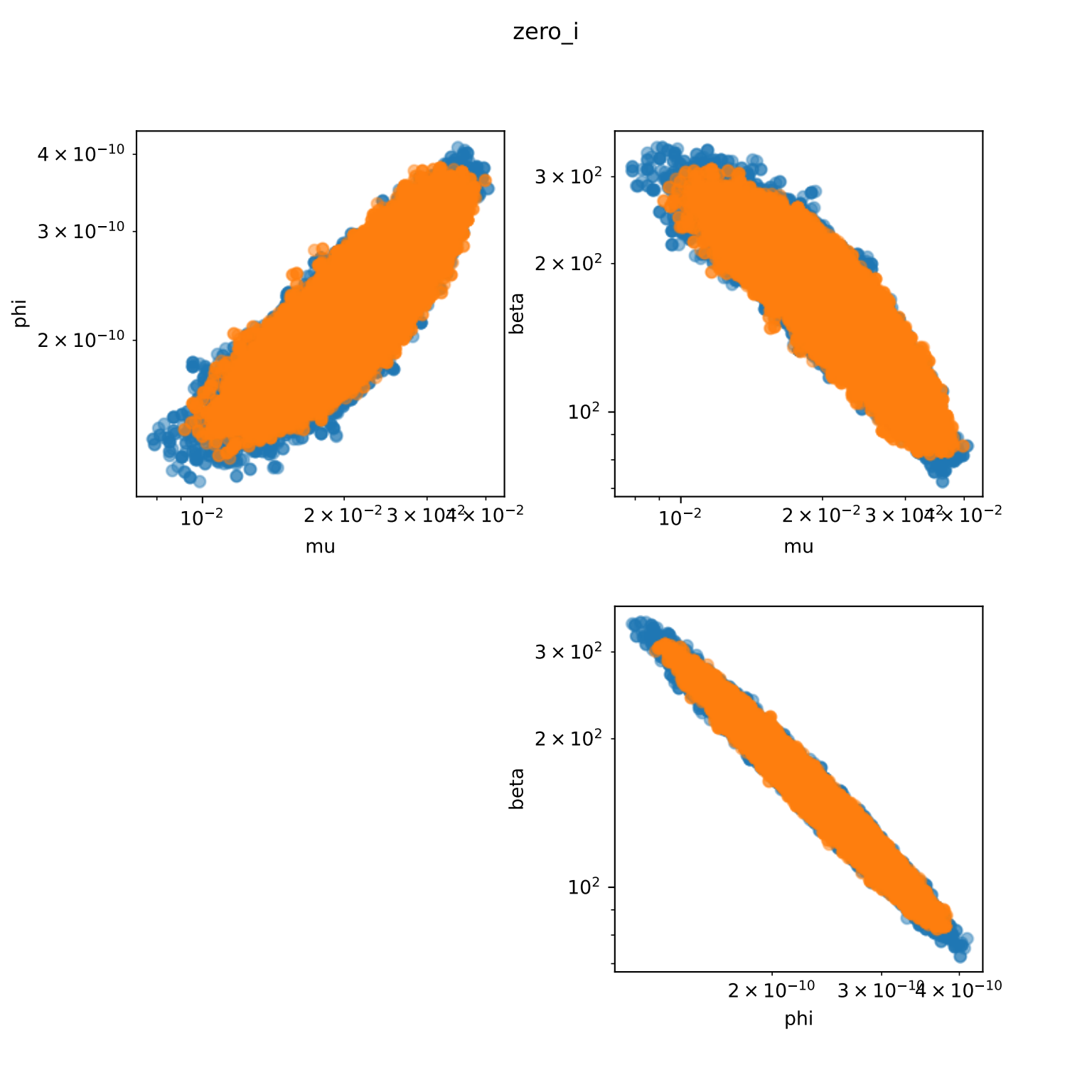

Residuals for model with lowest AIC
H residual
Time
V residual
Time
Frequency
H residual
Frequency
V residual

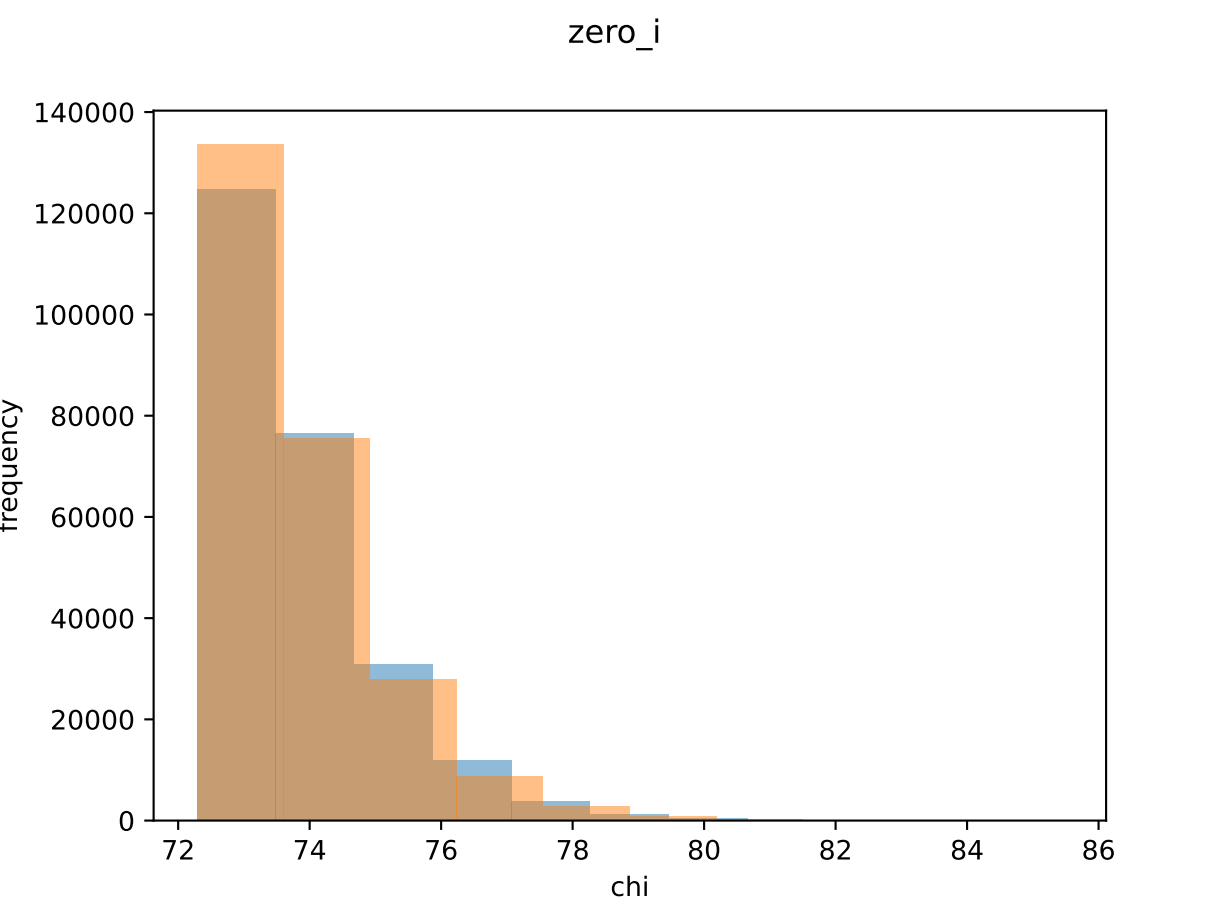
zero_i

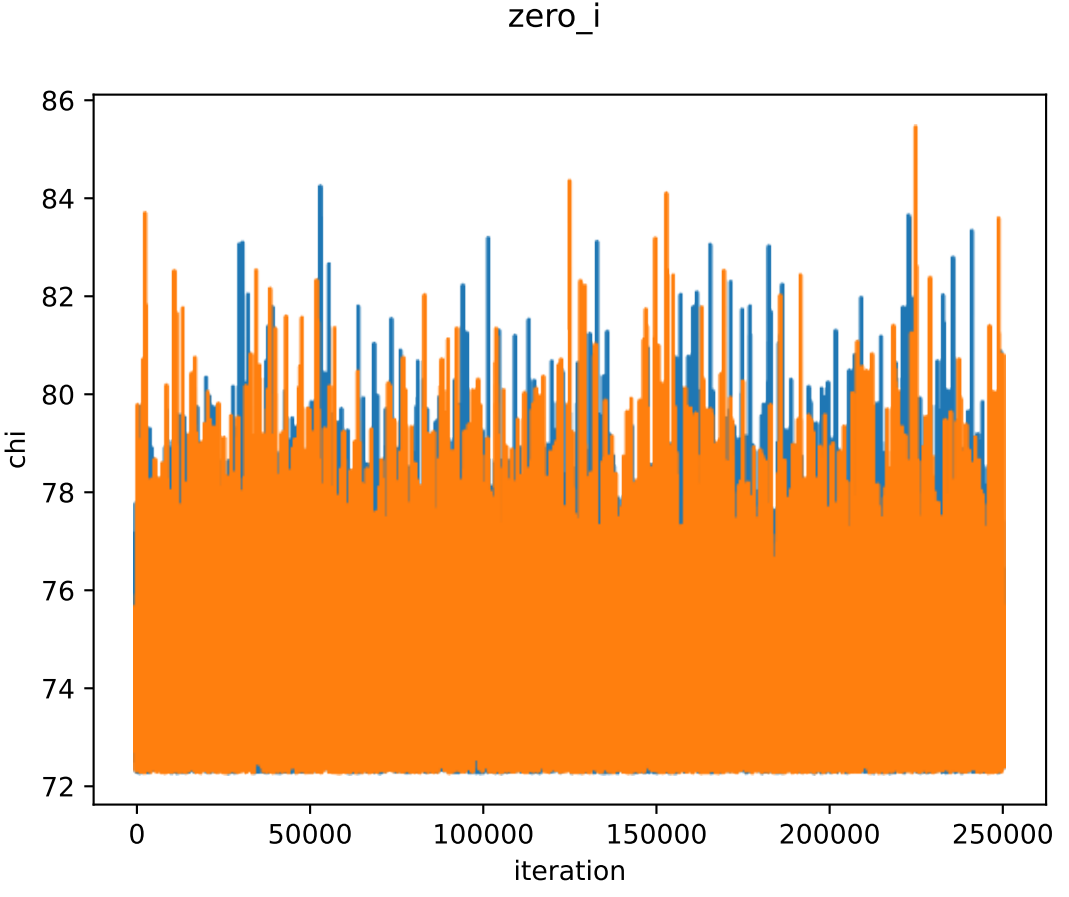

40000
30000
20000
10000
0
0.010
0.015
0.020
0.025
0.030
0.035
0.040
mu


40000
30000
20000
10000
0
1.5
2.0
2.5
3.0
3.5
4.0
1e−10
phi

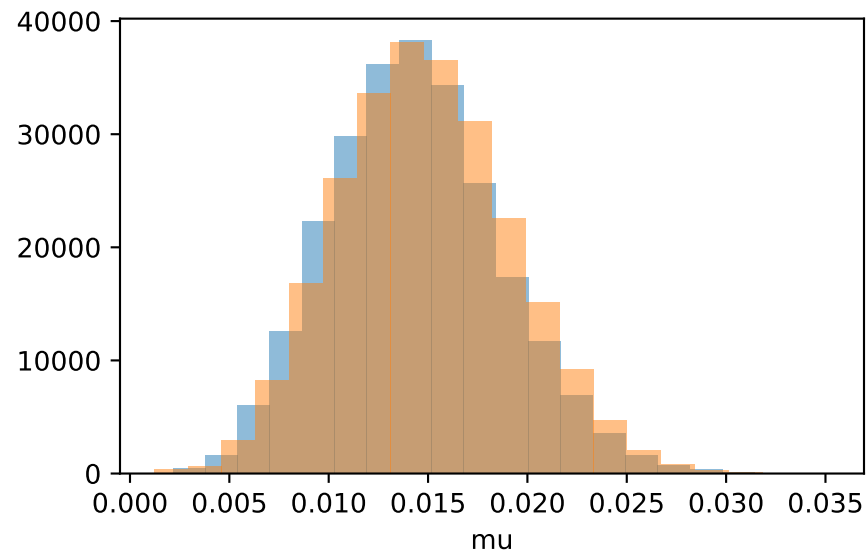

40000
30000
20000
10000
0
100
150
200
250
300
350
beta

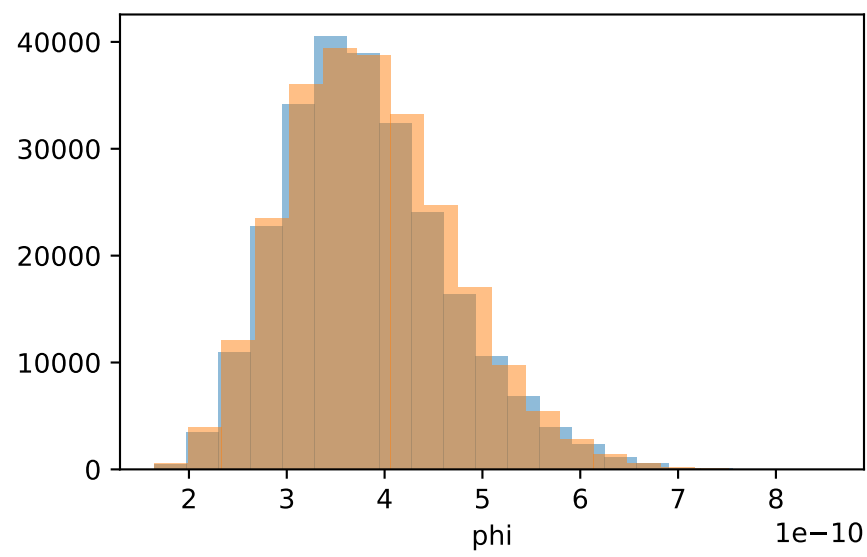

zero_i
phi
mu
beta
mu
beta
phi

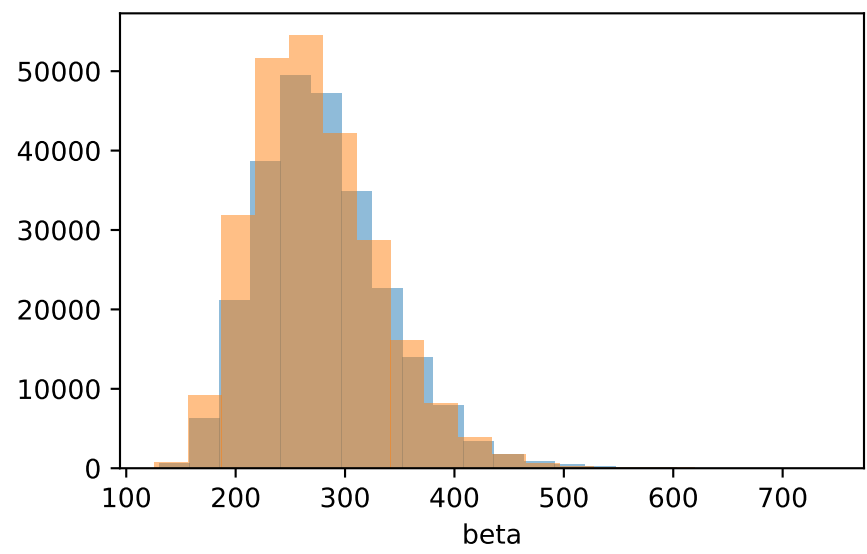

zero_i
140000
120000
100000
80000
60000
40000
20000
0
frequency
72
74
76
78
80
82
84
86
chi

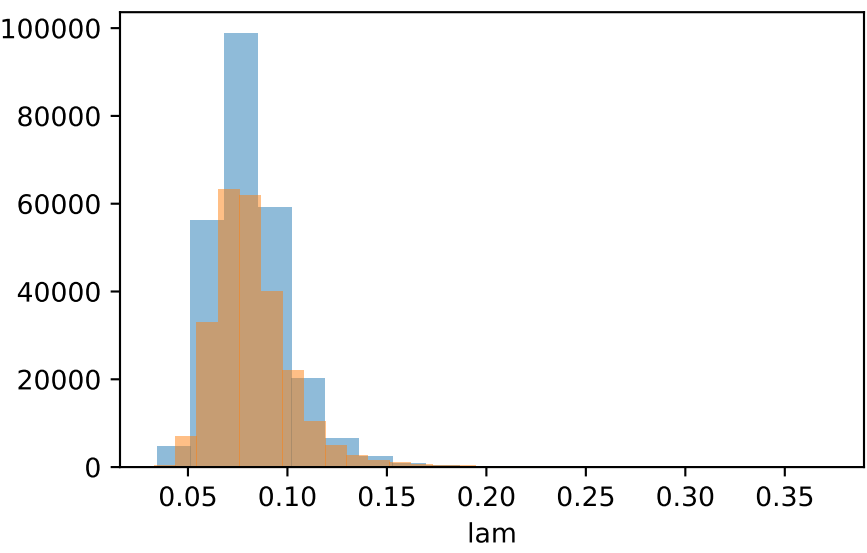

zero_i
chi
iteration
86
84
82
80
78
76
74
72
0
50000
100000
150000
200000
250000

one_i

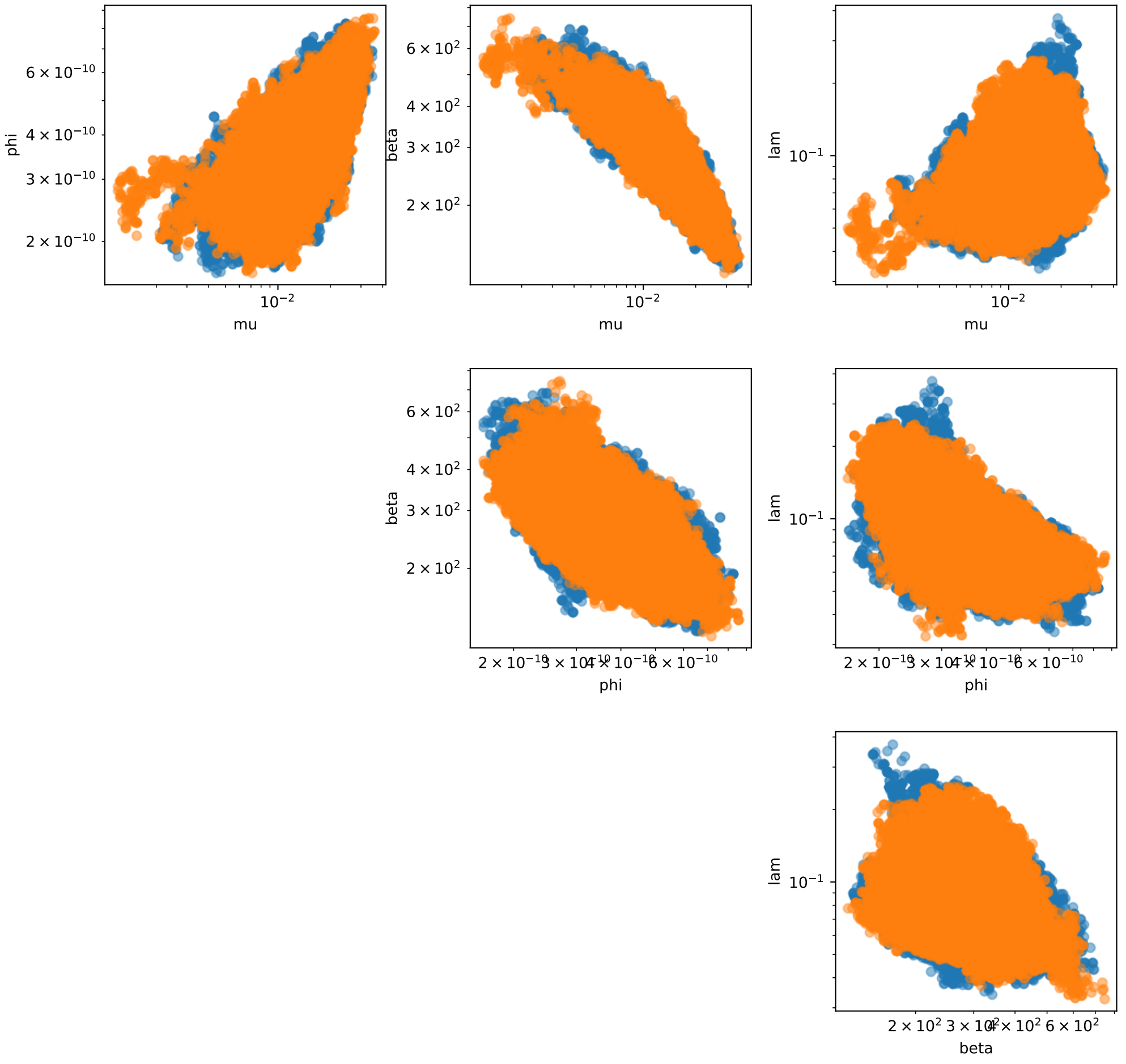

40000
30000
20000
10000
0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
mu

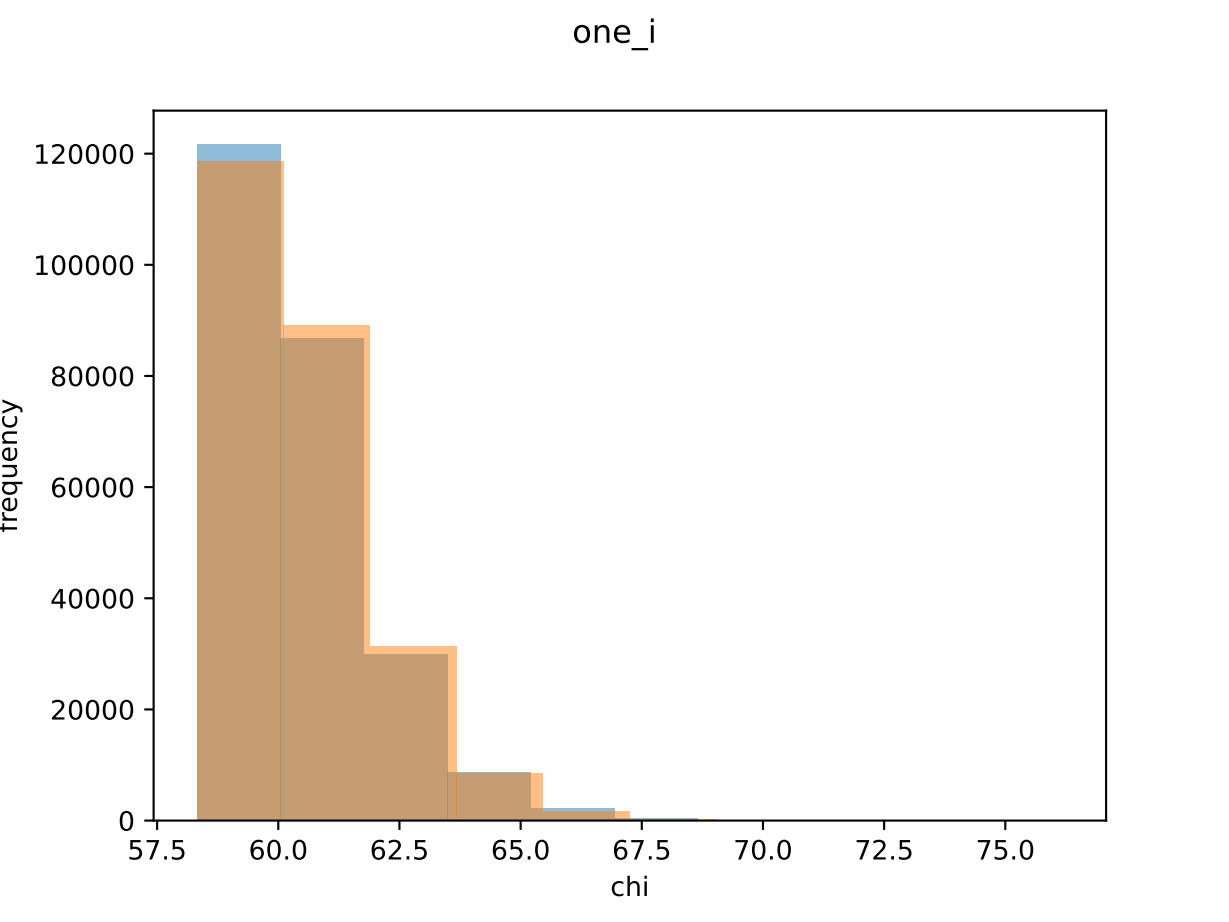

40000
30000
20000
10000
0
2
3
4
5
6
7
8
phi
1e−10

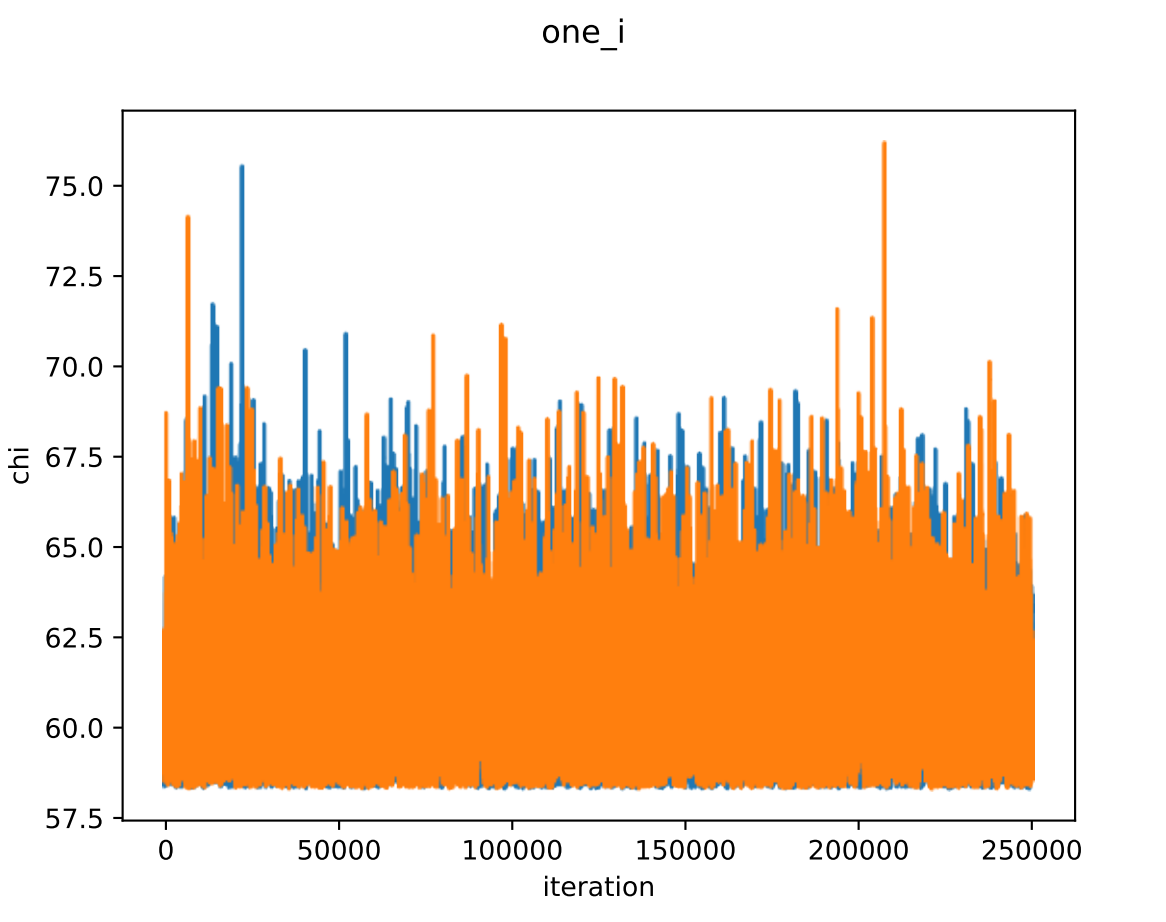

50000
40000
30000
20000
10000
0
100
200
300
400
500
600
700
beta


100000
80000
60000
40000
20000
0
0.05
0.10
0.15
0.20
0.25
0.30
0.35
lam

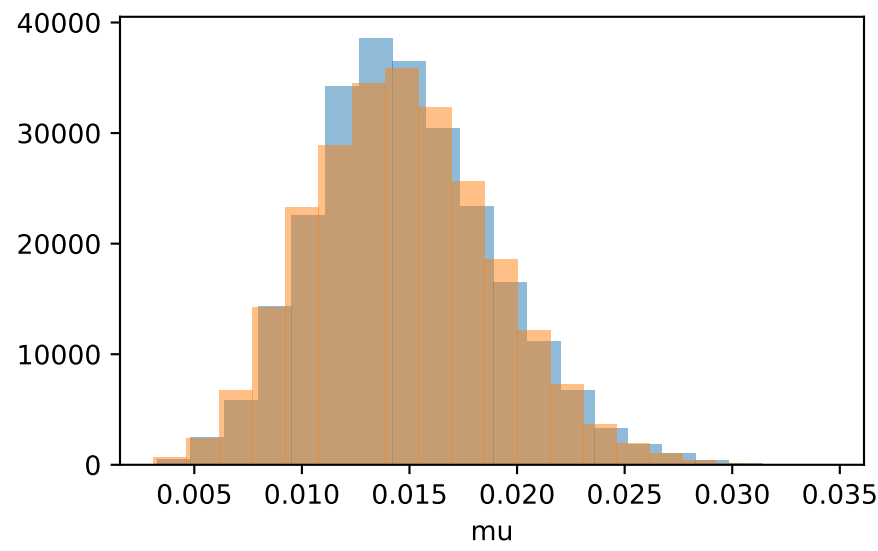
one_i

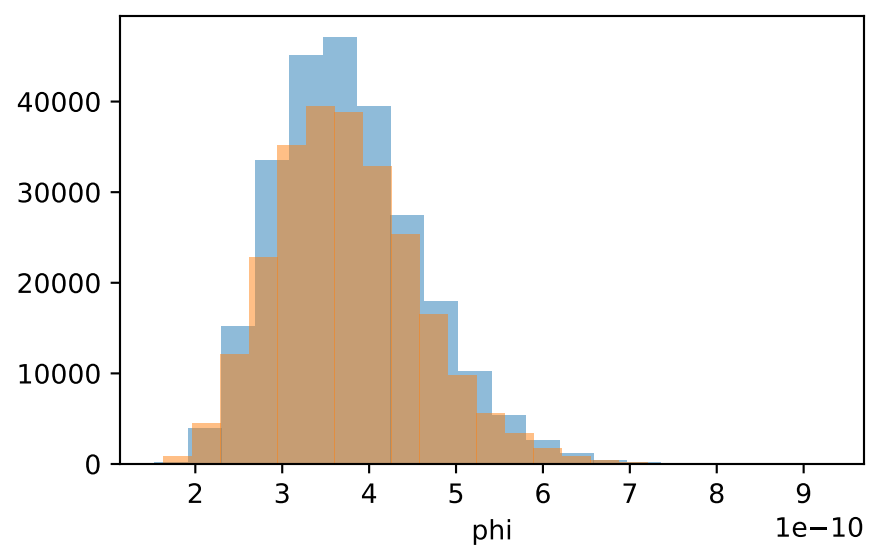


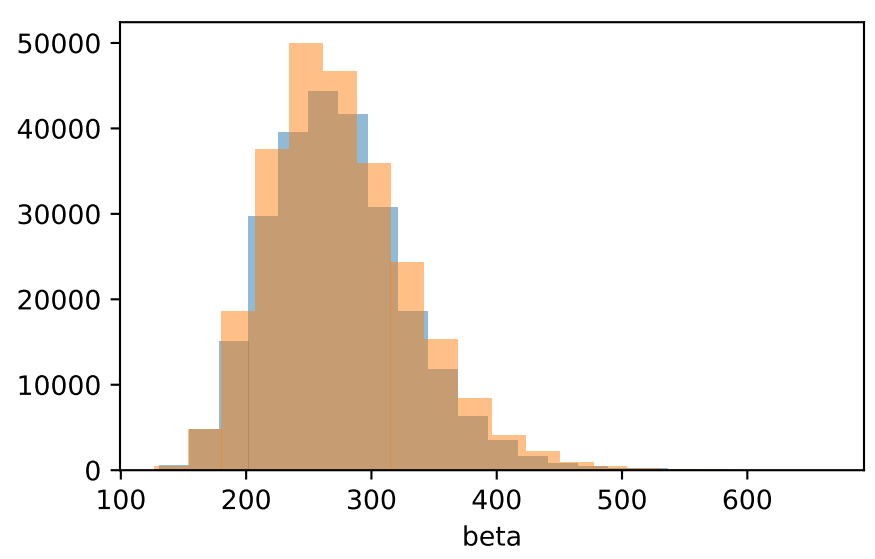

one_i
120000
100000
80000
60000
40000
20000
0
frequency
57.5
60.0
62.5
65.0
67.5
70.0
72.5
75.0
chi

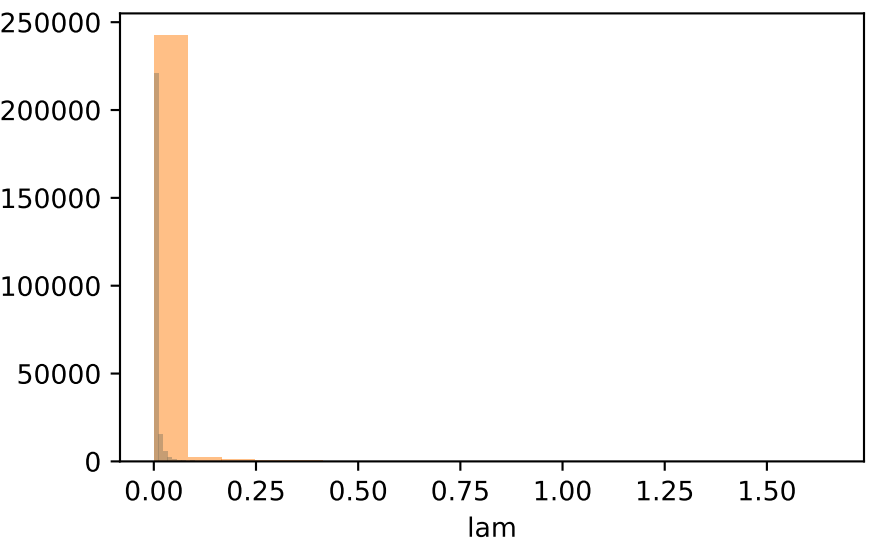

one_i
chi
iteration
75.0
72.5
70.0
67.5
65.0
62.5
60.0
57.5
0
50000
100000
150000
200000
250000

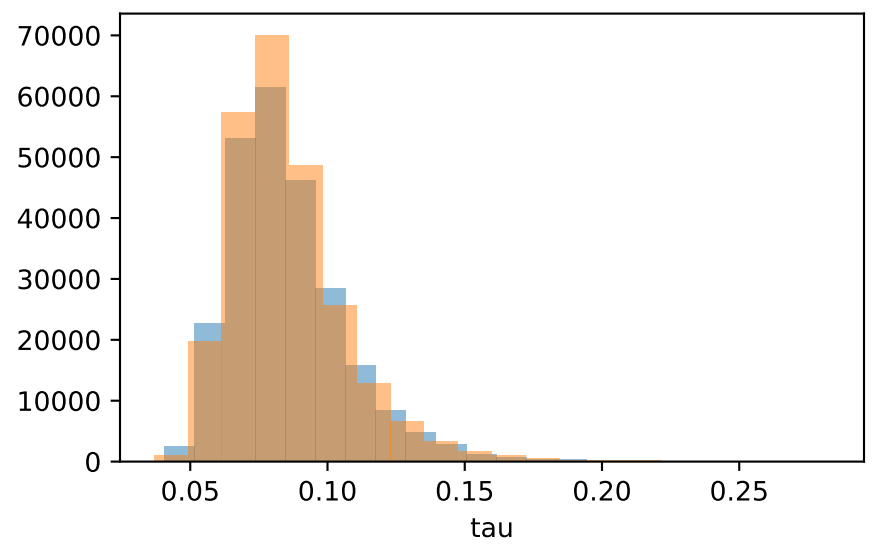
two_i


40000
30000
20000
10000
0
0.005
0.010
0.015
0.020
0.025
0.030
0.035
mu

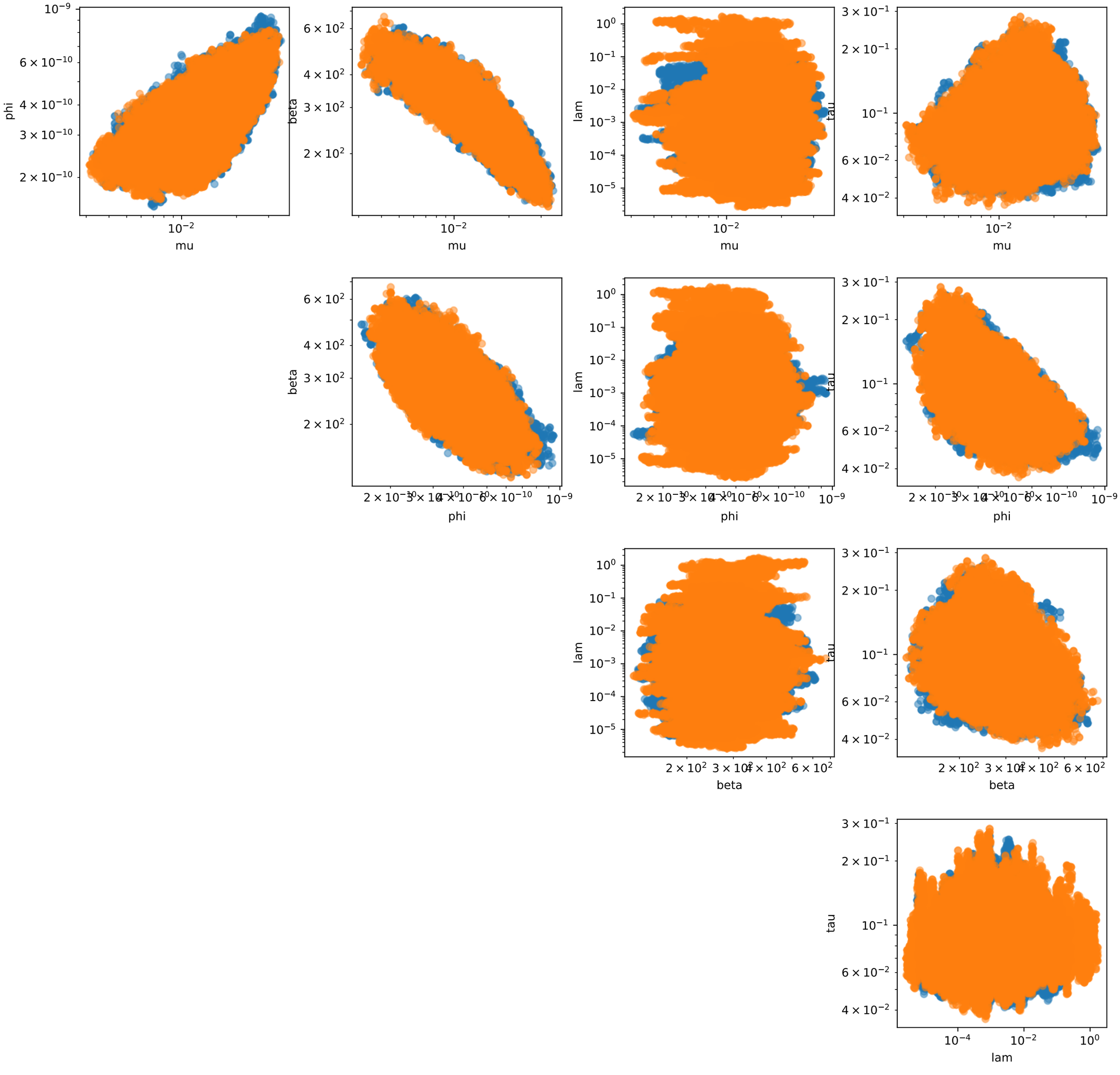

40000
30000
20000
10000
0
2
3
4
5
6
7
8
9
phi
1e−10

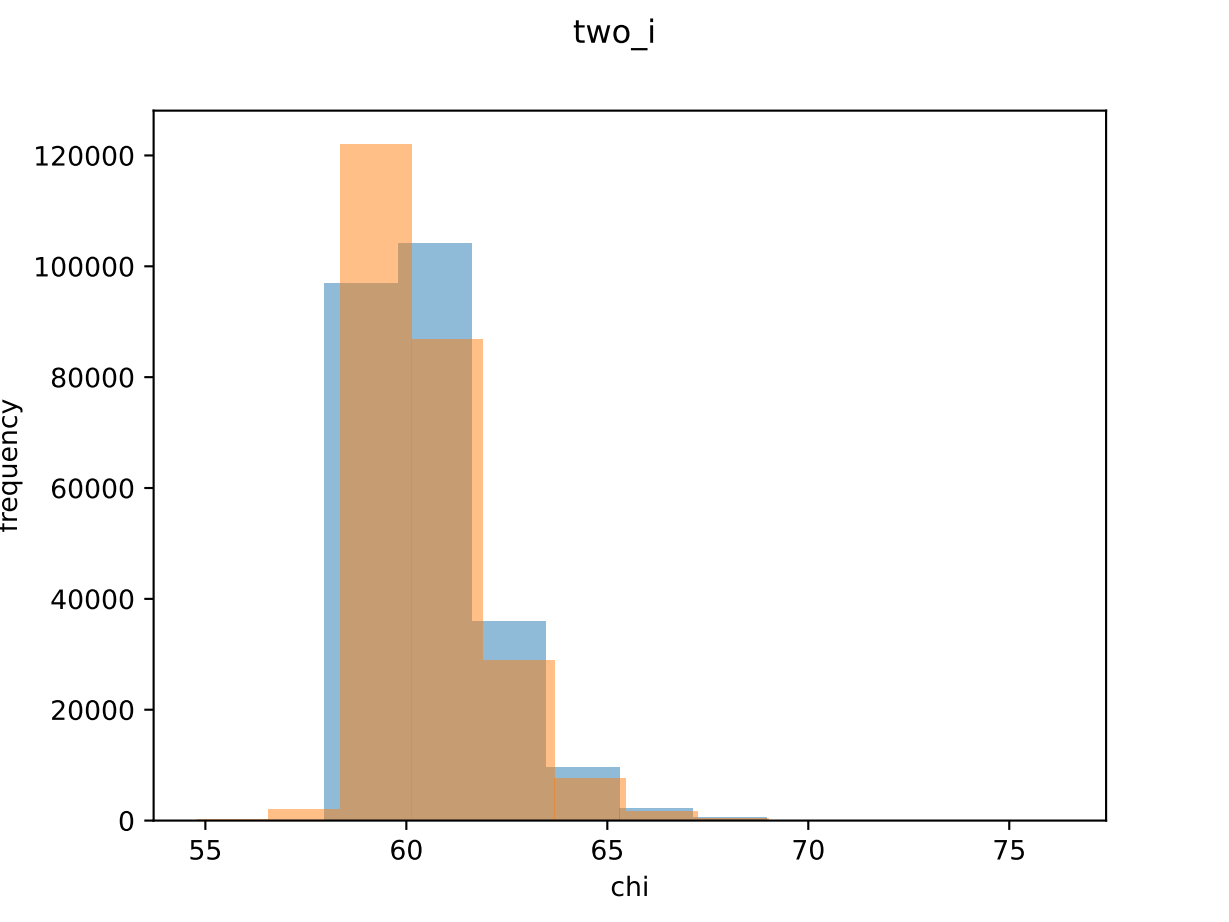

50000
40000
30000
20000
10000
0
100
200
300
400
500
600
beta

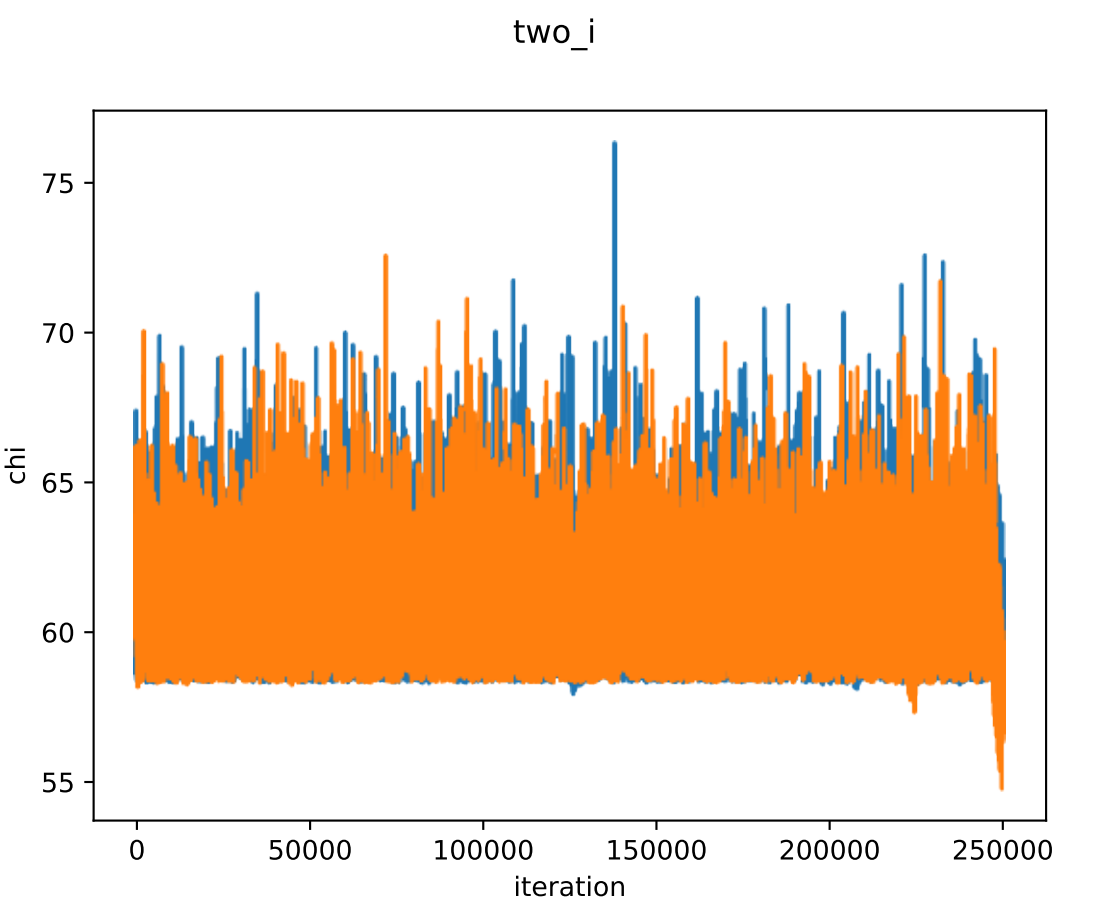

250000
200000
150000
100000
50000
0
0.00
0.25
0.50
0.75
1.00
1.25
1.50
lam


70000
60000
50000
40000
30000
20000
10000
0
0.05
0.10
0.15
0.20
0.25
tau

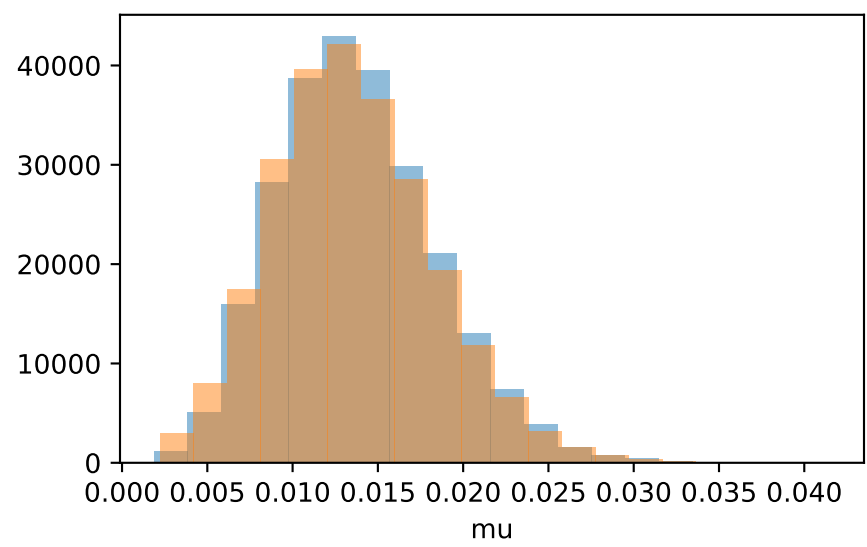
two_i

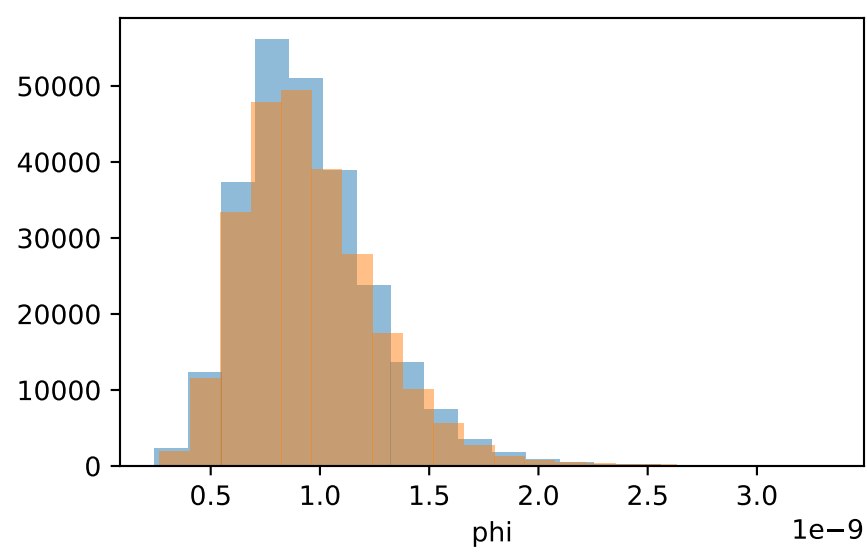


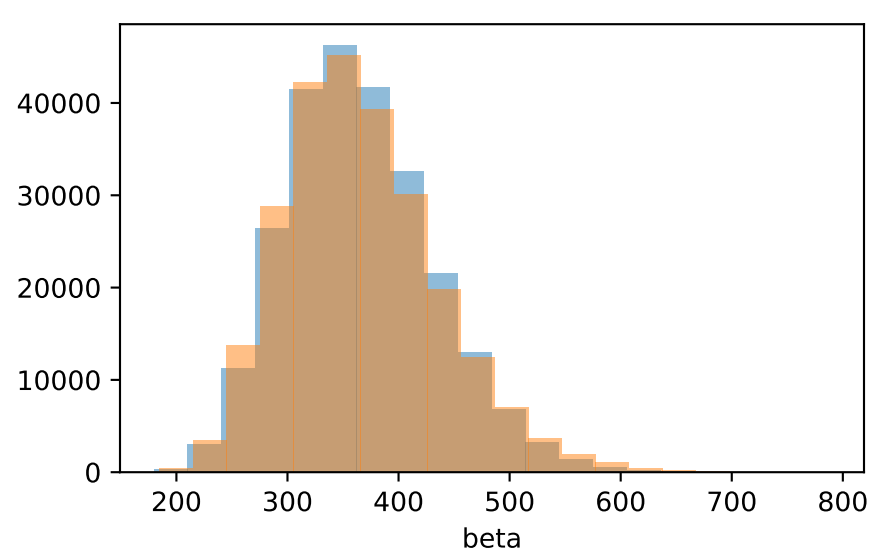

two_i
120000
100000
80000
60000
40000
20000
0
frequency
55
60
65
70
75
chi

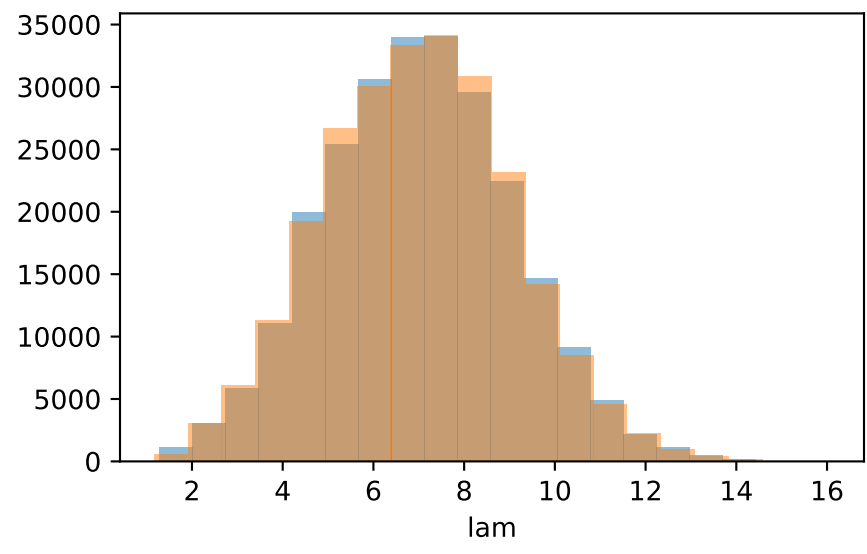

two_i
chi
iteration
75
70
65
60
55
0
50000
100000
150000
200000
250000

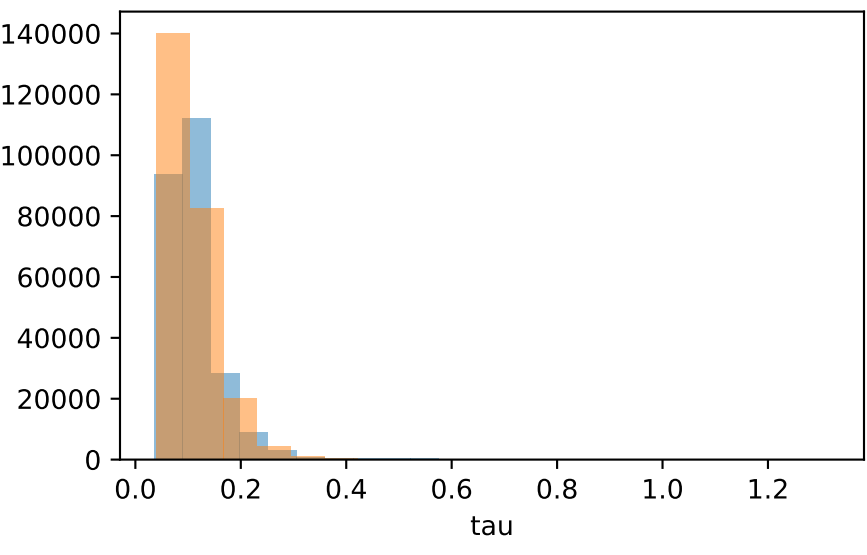
three_i


40000
30000
20000
10000
0
0.000 0.005 0.010 0.015 0.020 0.025 0.030 0.035 0.040
mu

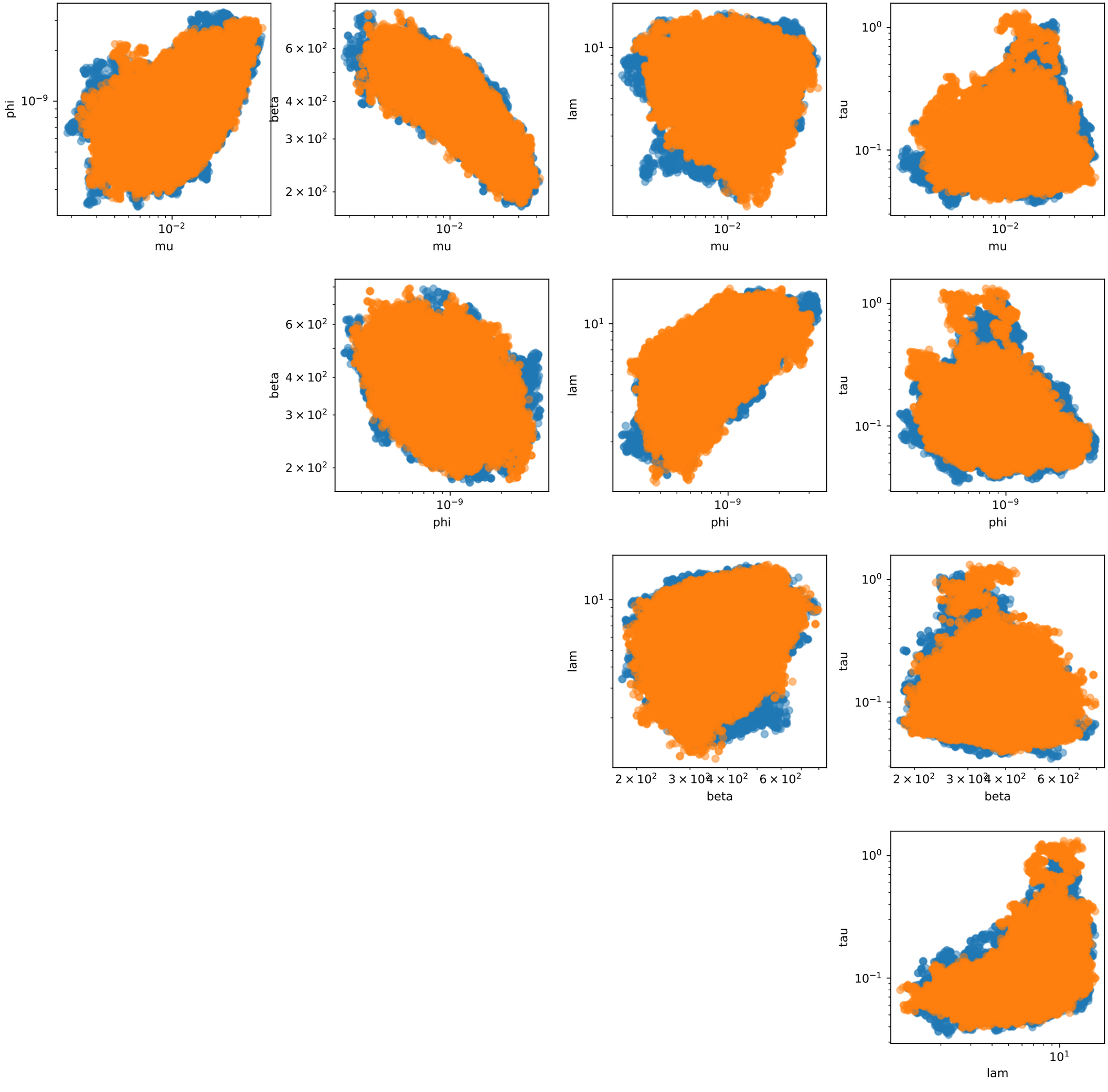

50000
40000
30000
20000
10000
0
0.5
1.0
1.5
2.0
2.5
3.0
phi
1e−9

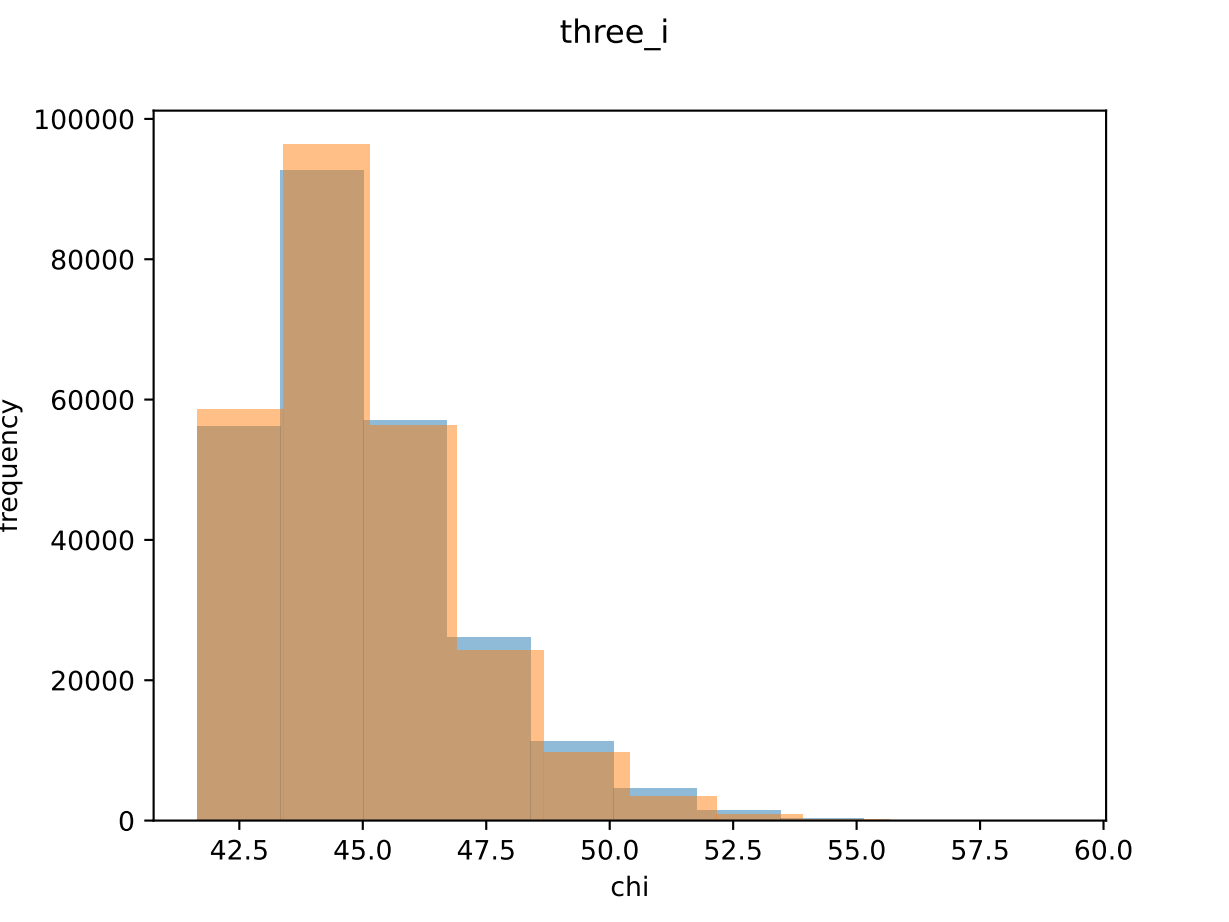

40000
30000
20000
10000
0
200
300
400
500
600
700
800
beta

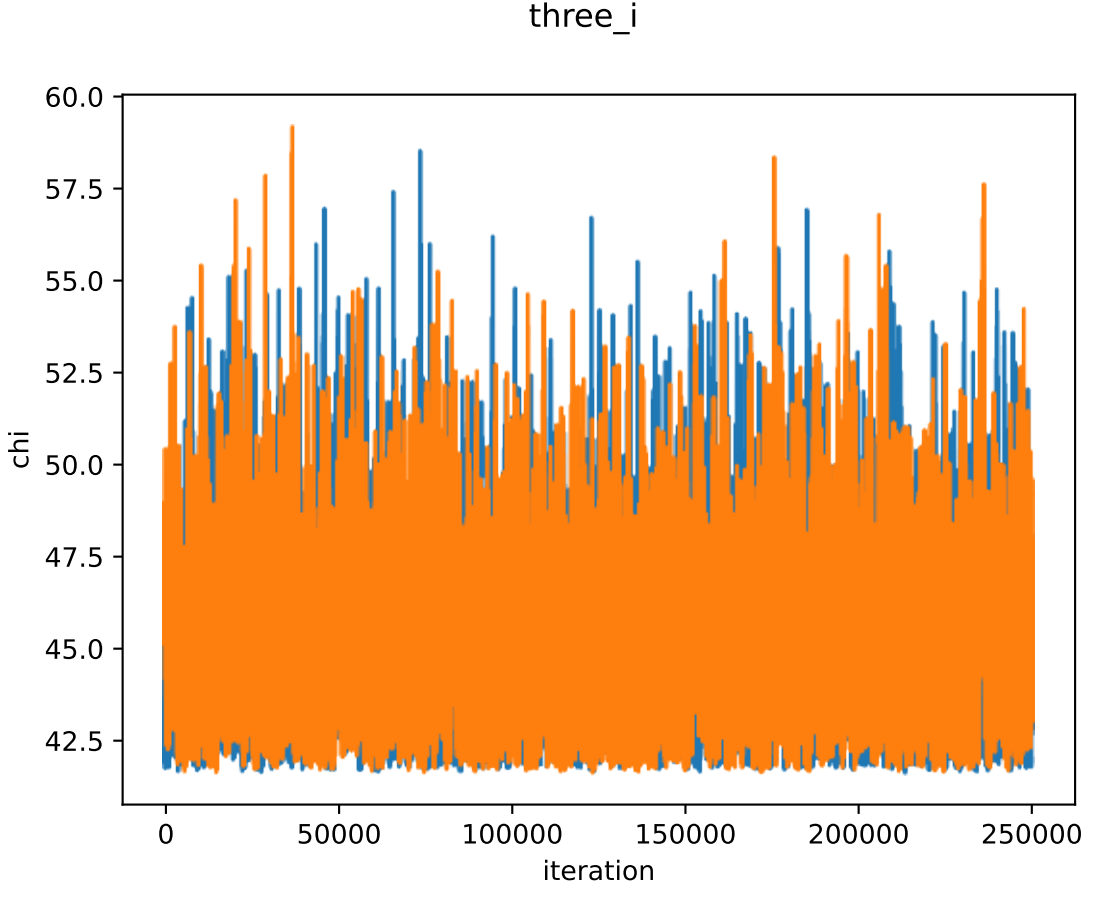

35000
30000
25000
20000
15000
10000
5000
0
2
4
6
8
10
12
14
16
lam


140000
120000
100000
80000
60000
40000
20000
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
tau

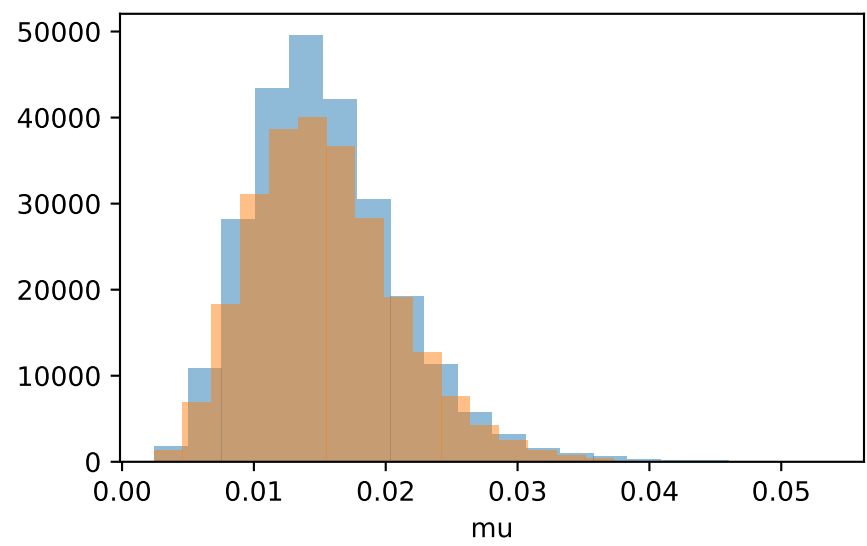
three_i

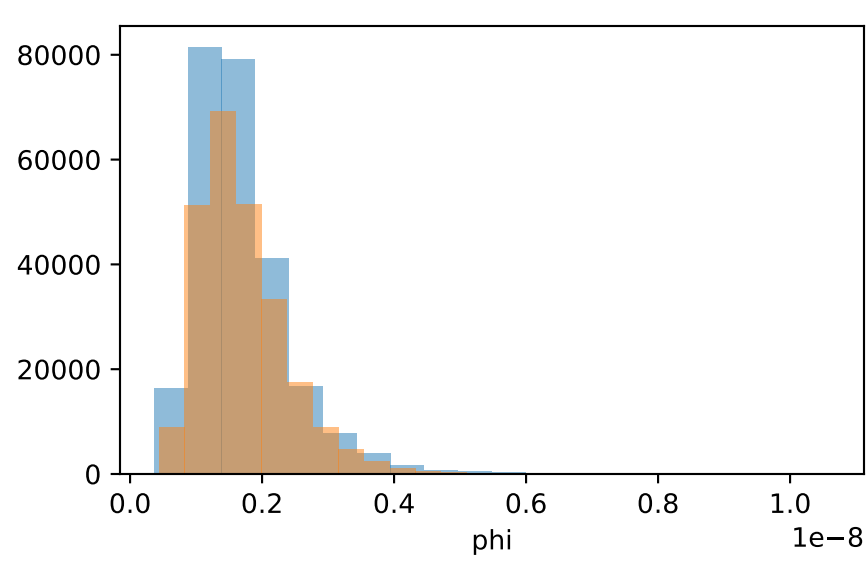


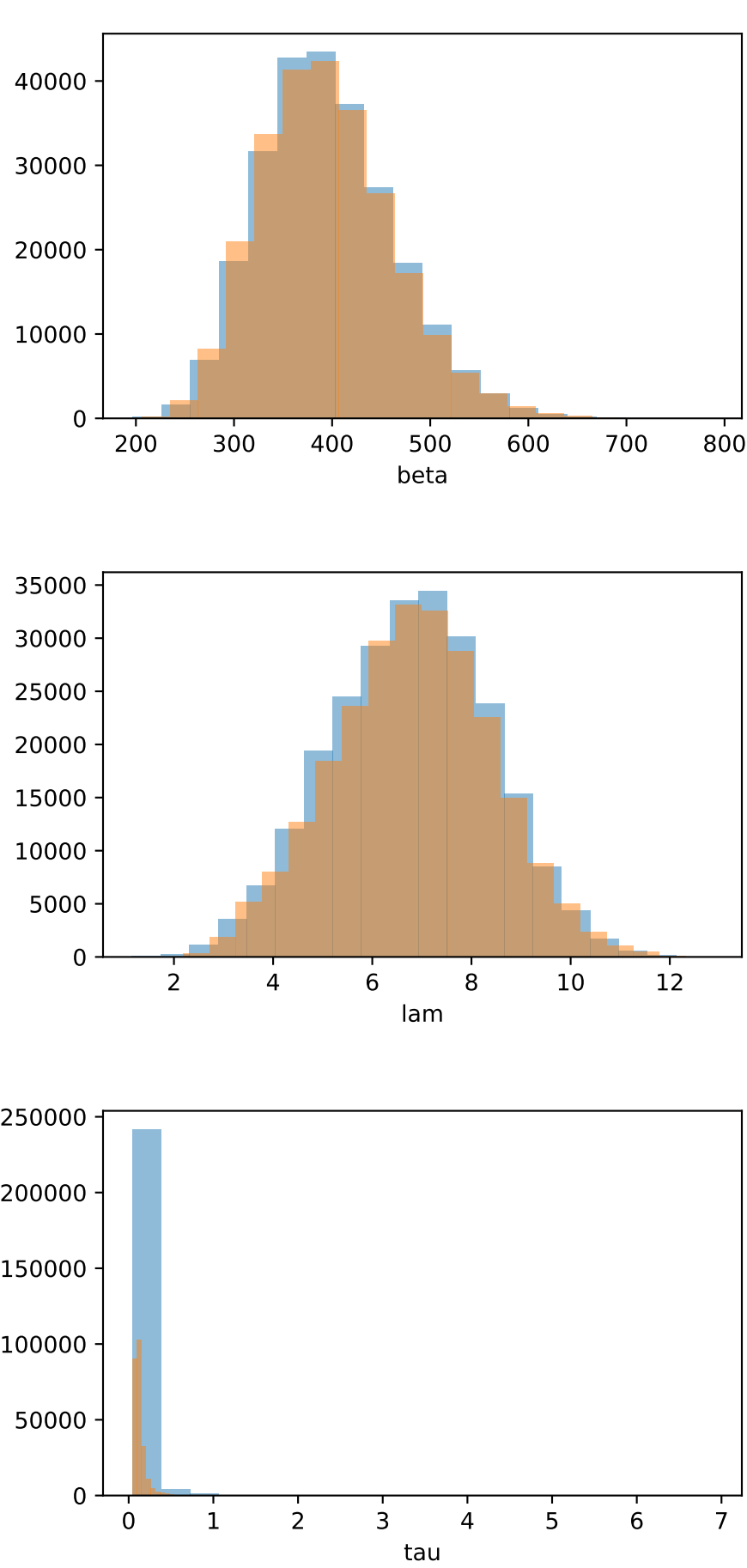

three_i
100000
80000
60000
40000
20000
0
frequency
42.5
45.0
47.5
50.0
52.5
55.0
57.5
60.0
chi


three_i
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


50000
40000
30000
20000
10000
0
0.00
0.01
0.02
0.03
0.04
0.05
mu

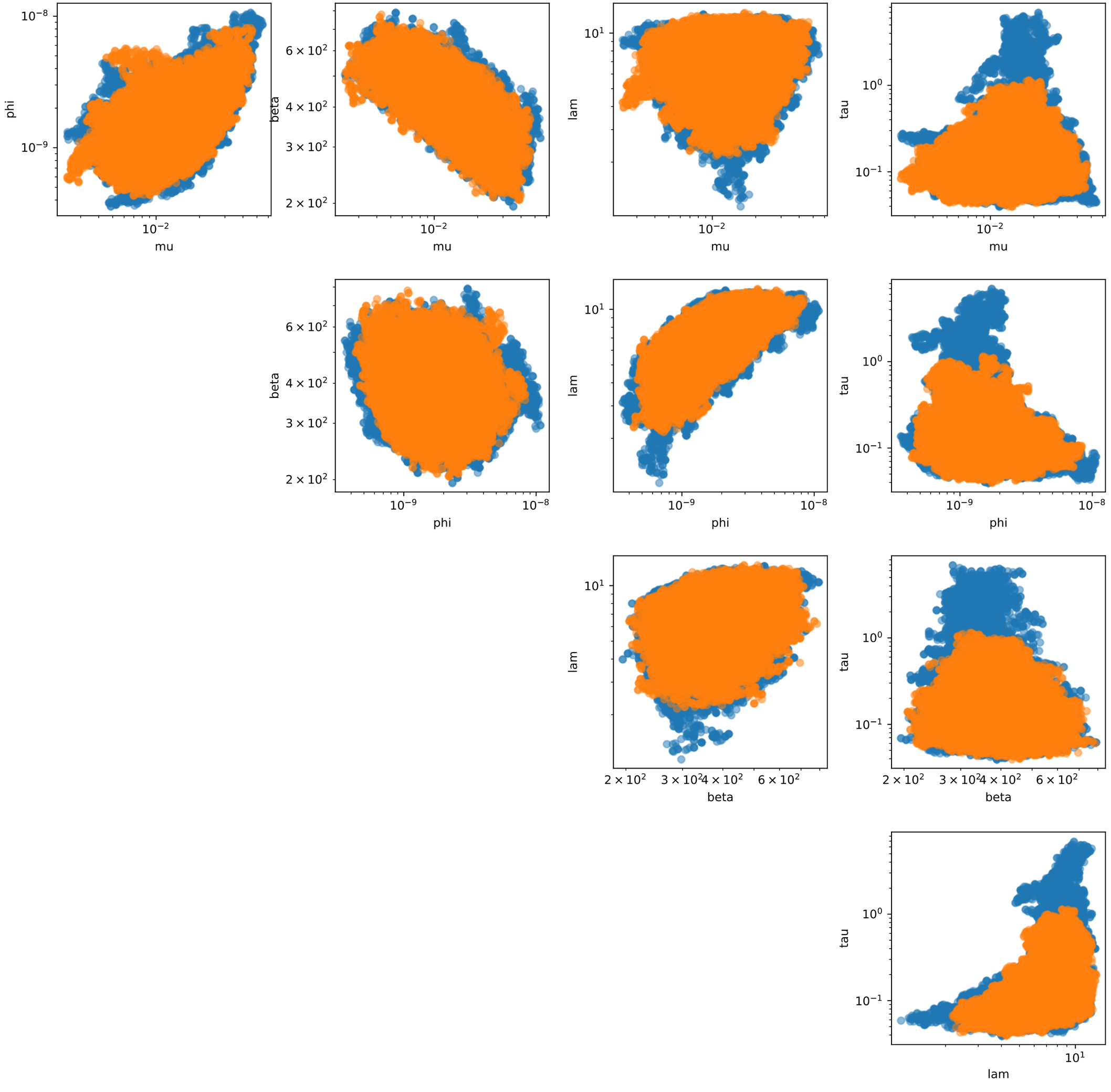

80000
60000
40000
20000
0
0.0
0.2
0.4
0.6
0.8
1.0
1e−8
phi

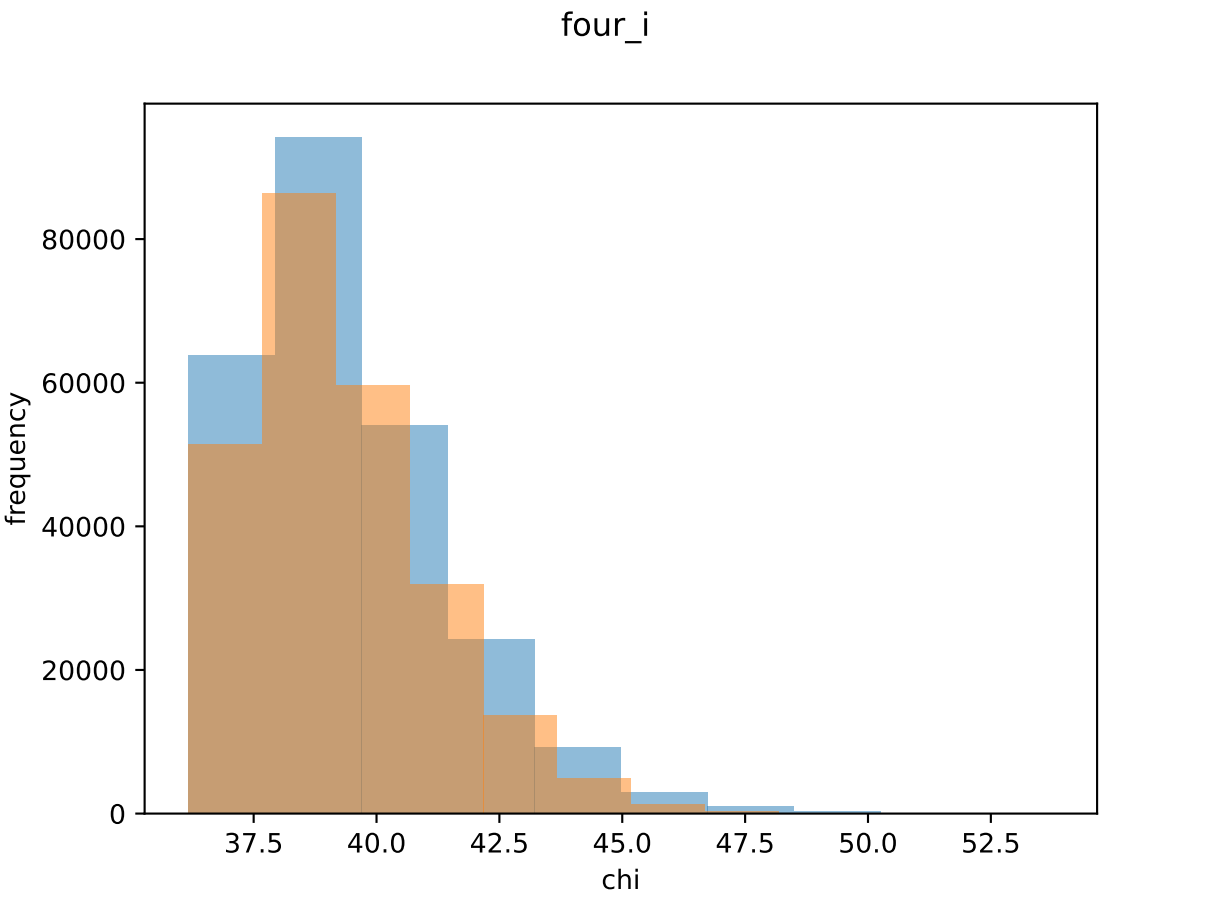

40000
30000
20000
10000
0
200
300
400
500
600
700
800
beta

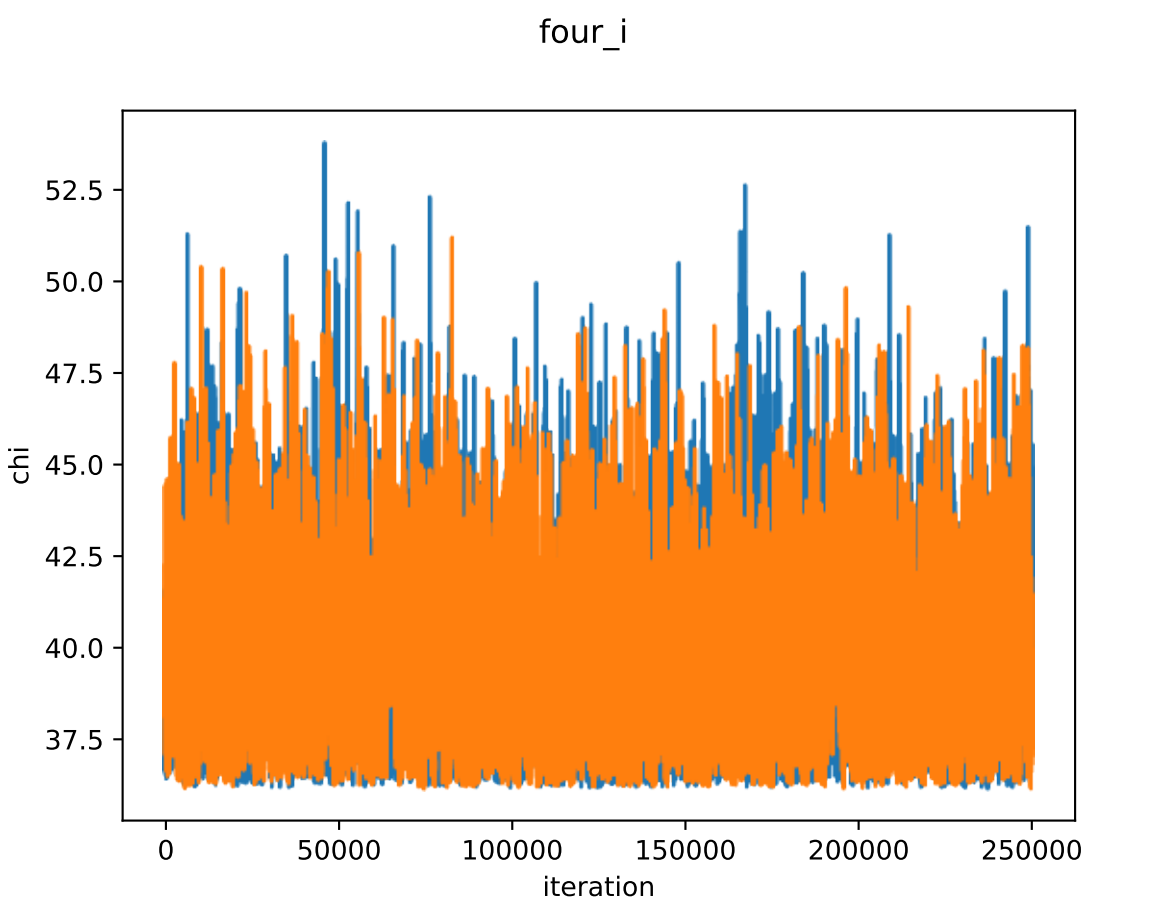
35000
30000
25000
20000
15000
10000
5000
0
2
4
6
8
10
12
lam

250000
200000
150000
100000
50000
0
0
1
2
3
4
5
6
7
tau

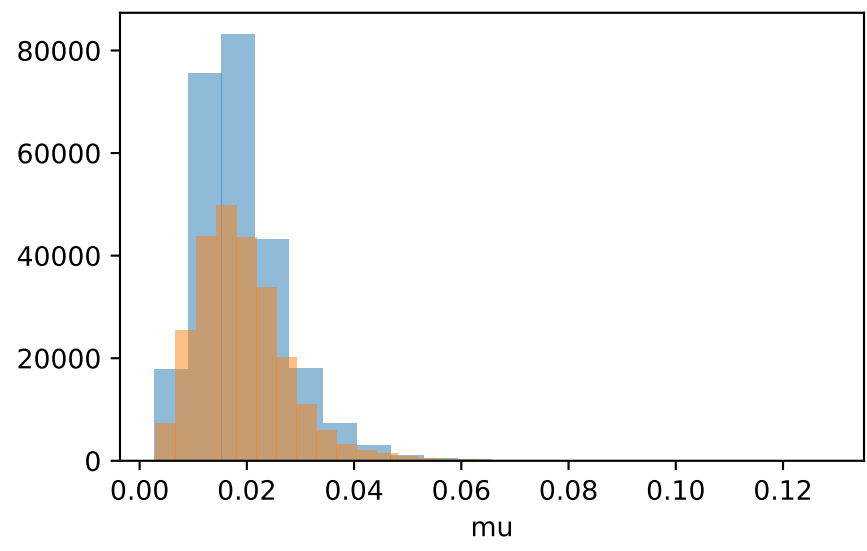
four_i

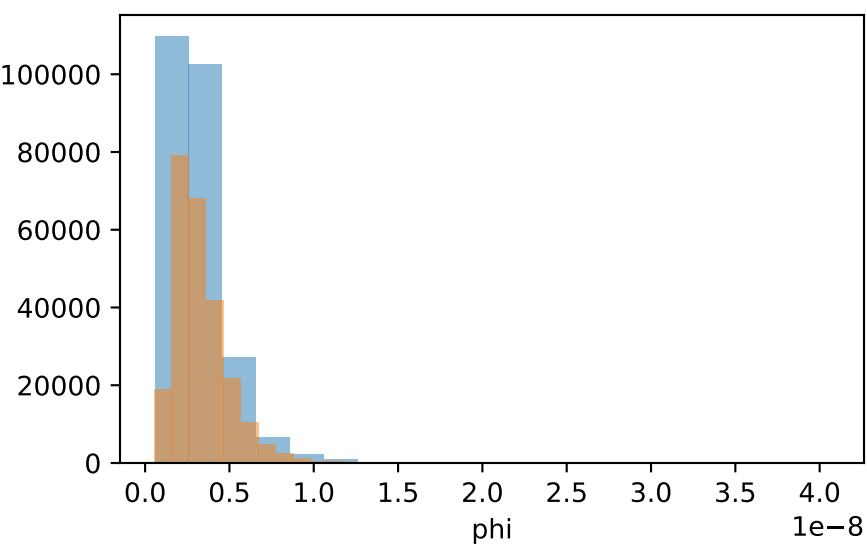



four_i
80000
60000
40000
20000
0
frequency
37.5
40.0
42.5
45.0
47.5
50.0
52.5
chi


four_i
chi
52.5
50.0
47.5
45.0
42.5
40.0
37.5
0
50000
100000
150000
200000
250000
iteration

five_i


80000
60000
40000
20000
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
mu


100000
80000
60000
40000
20000
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
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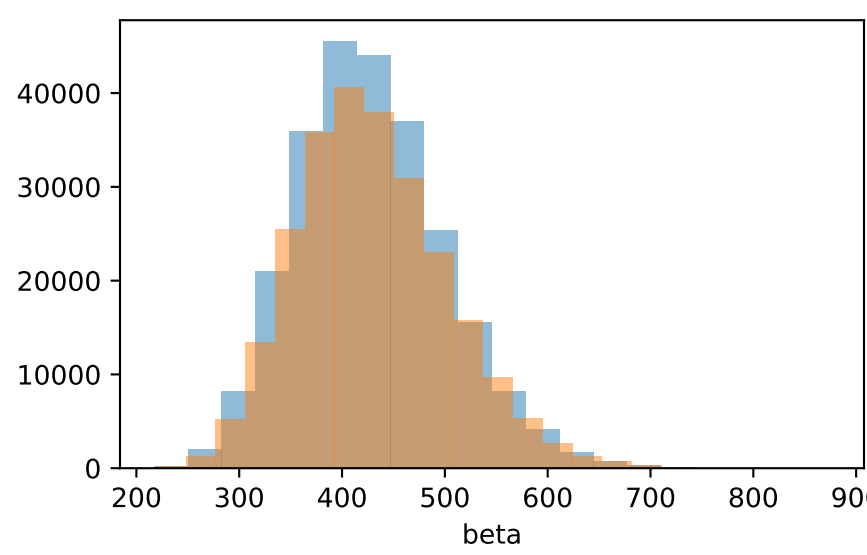
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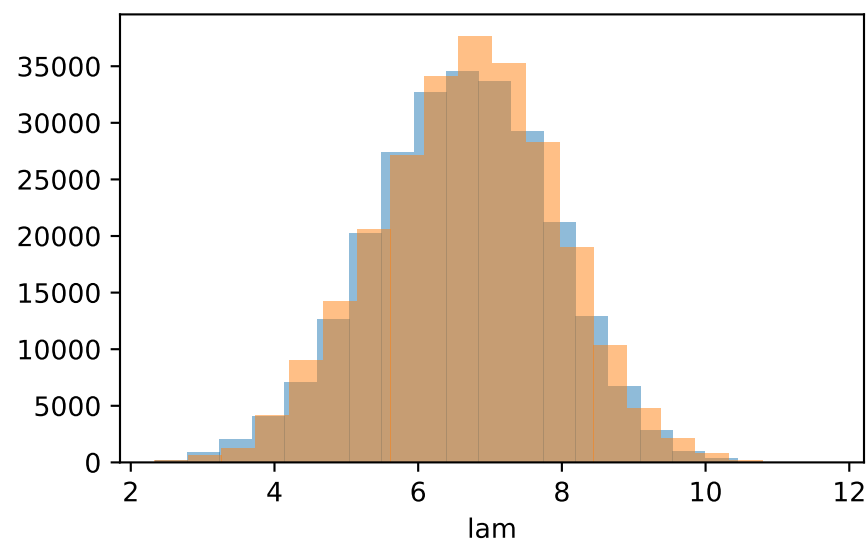
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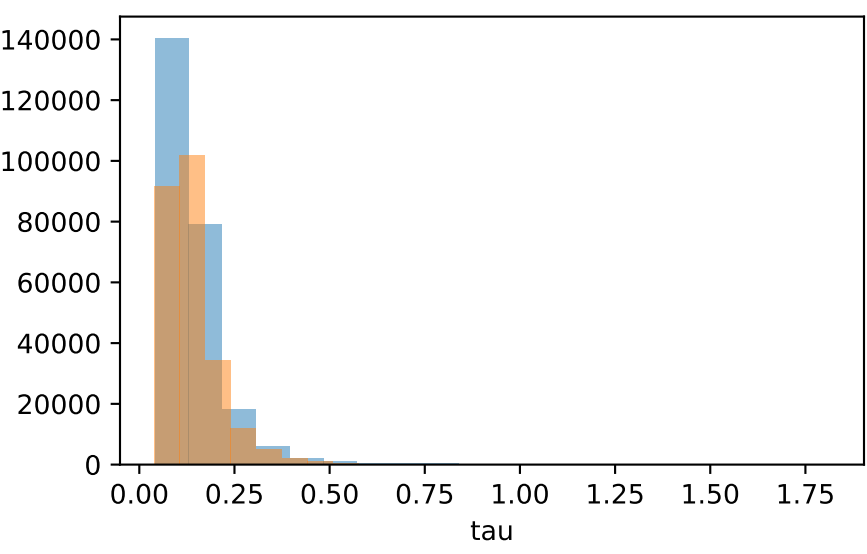
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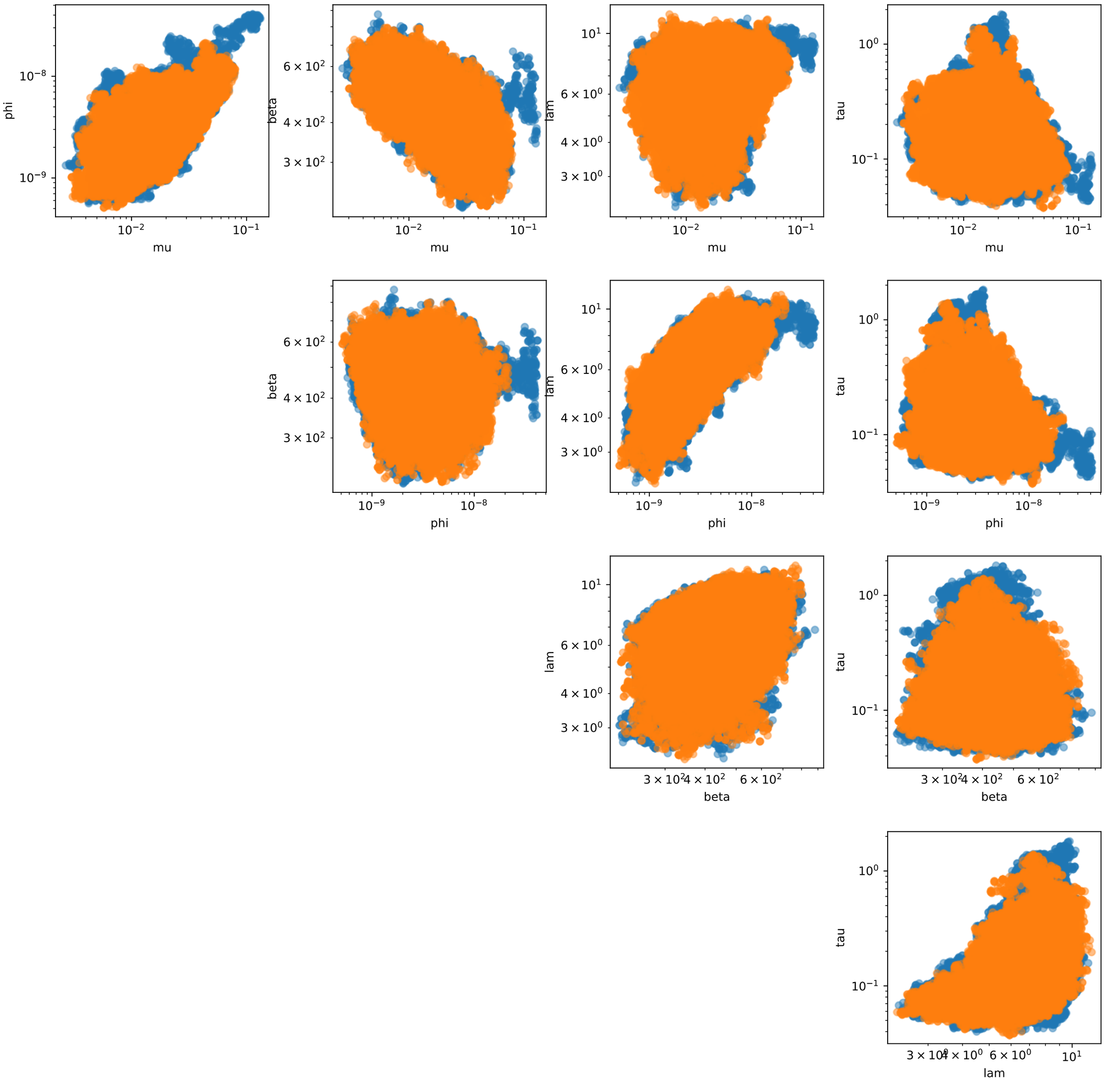

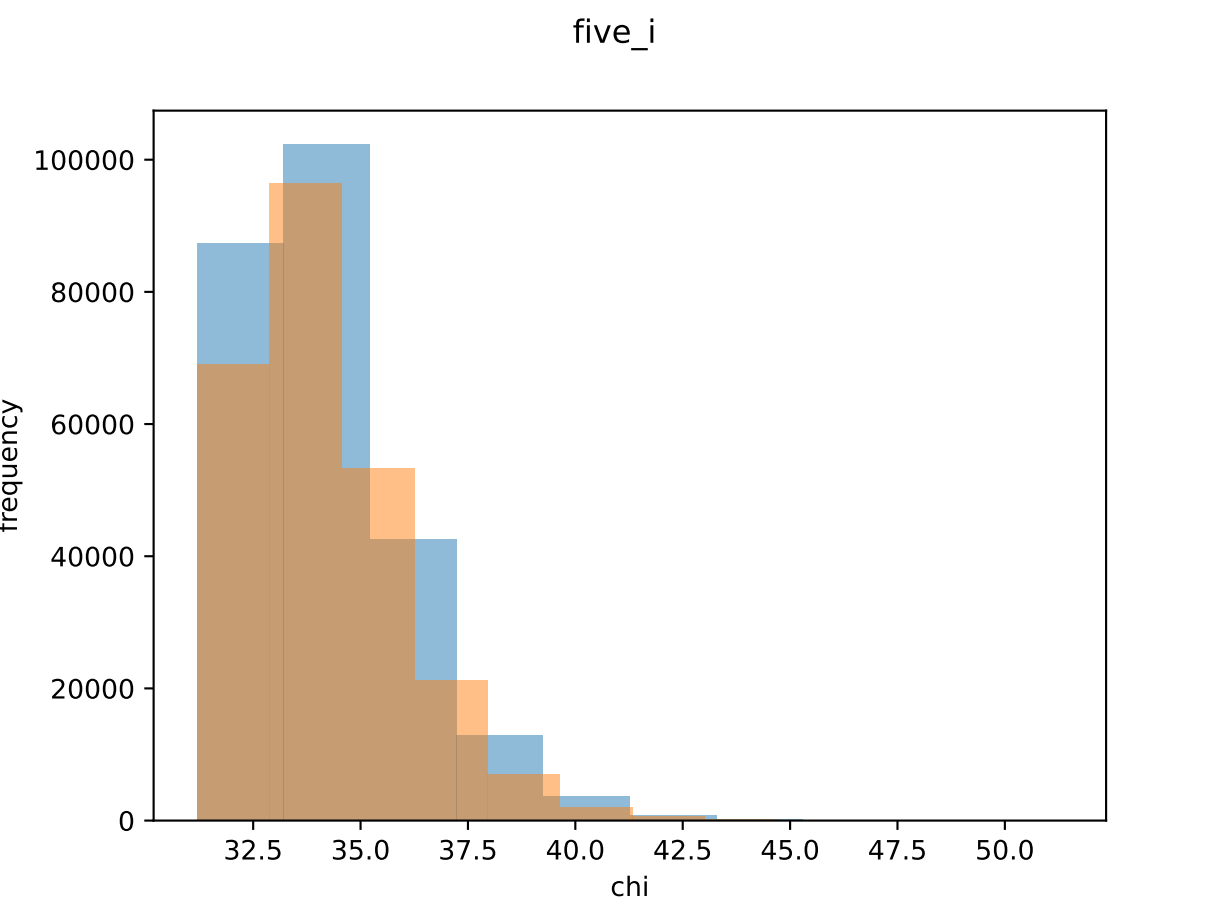
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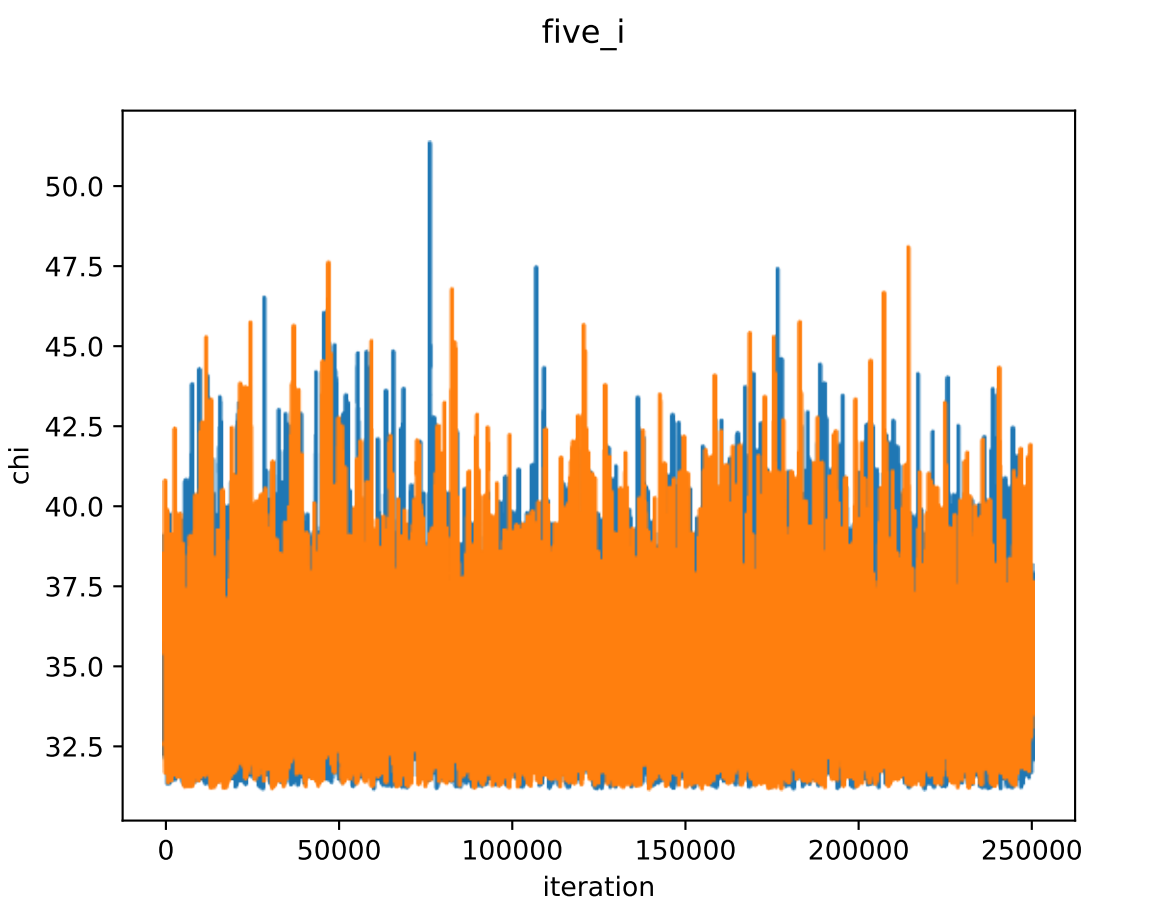
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