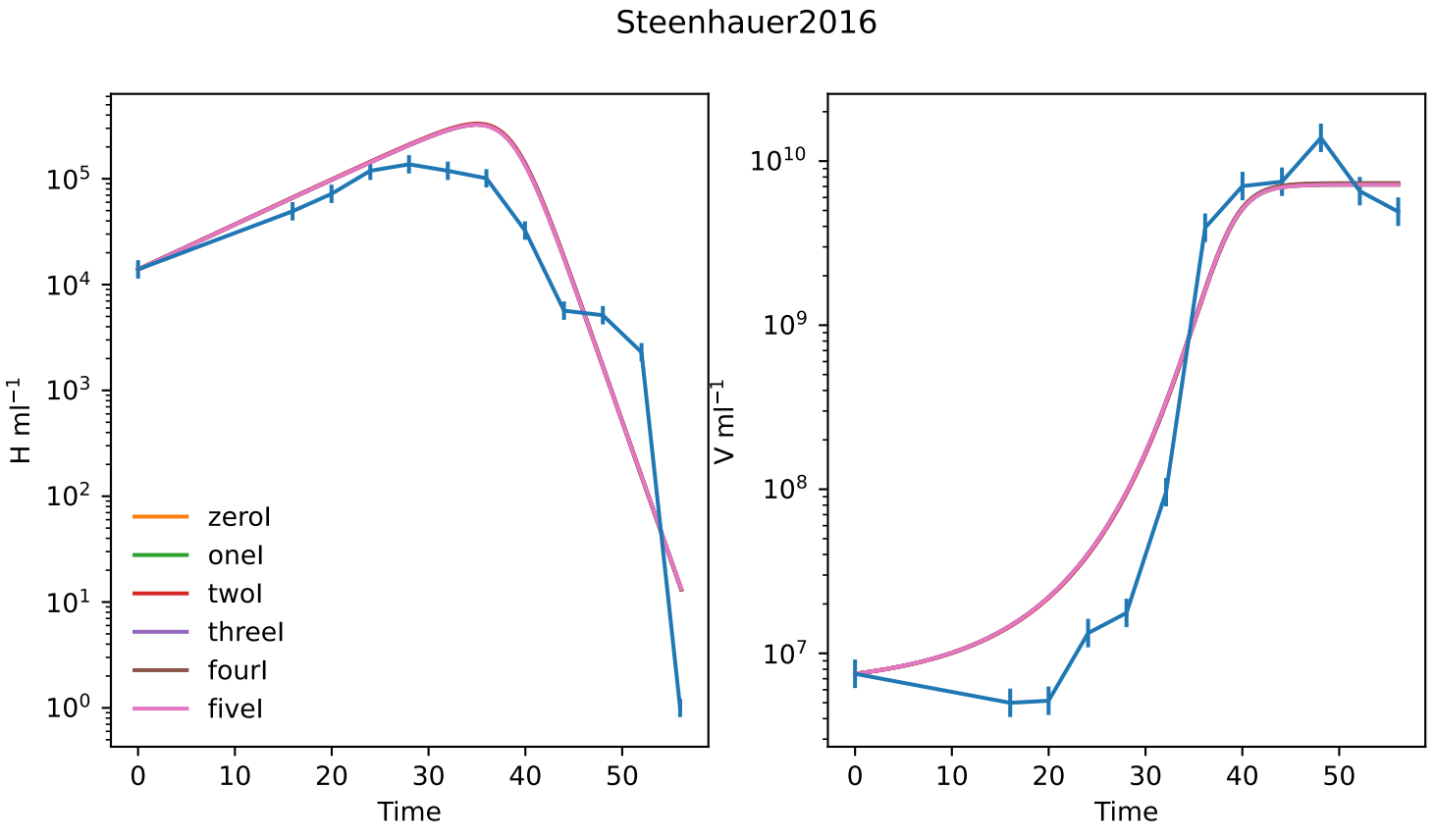
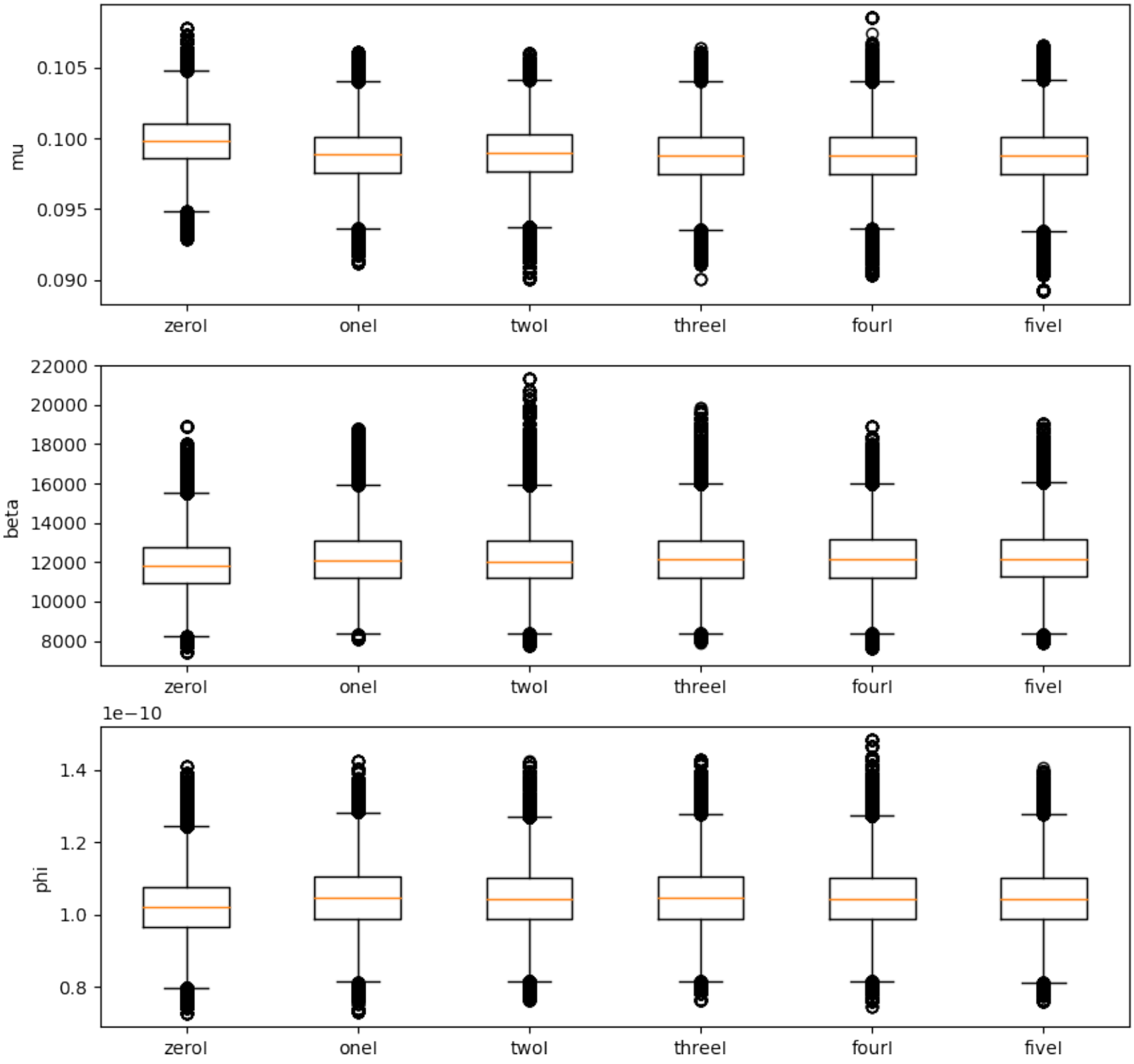
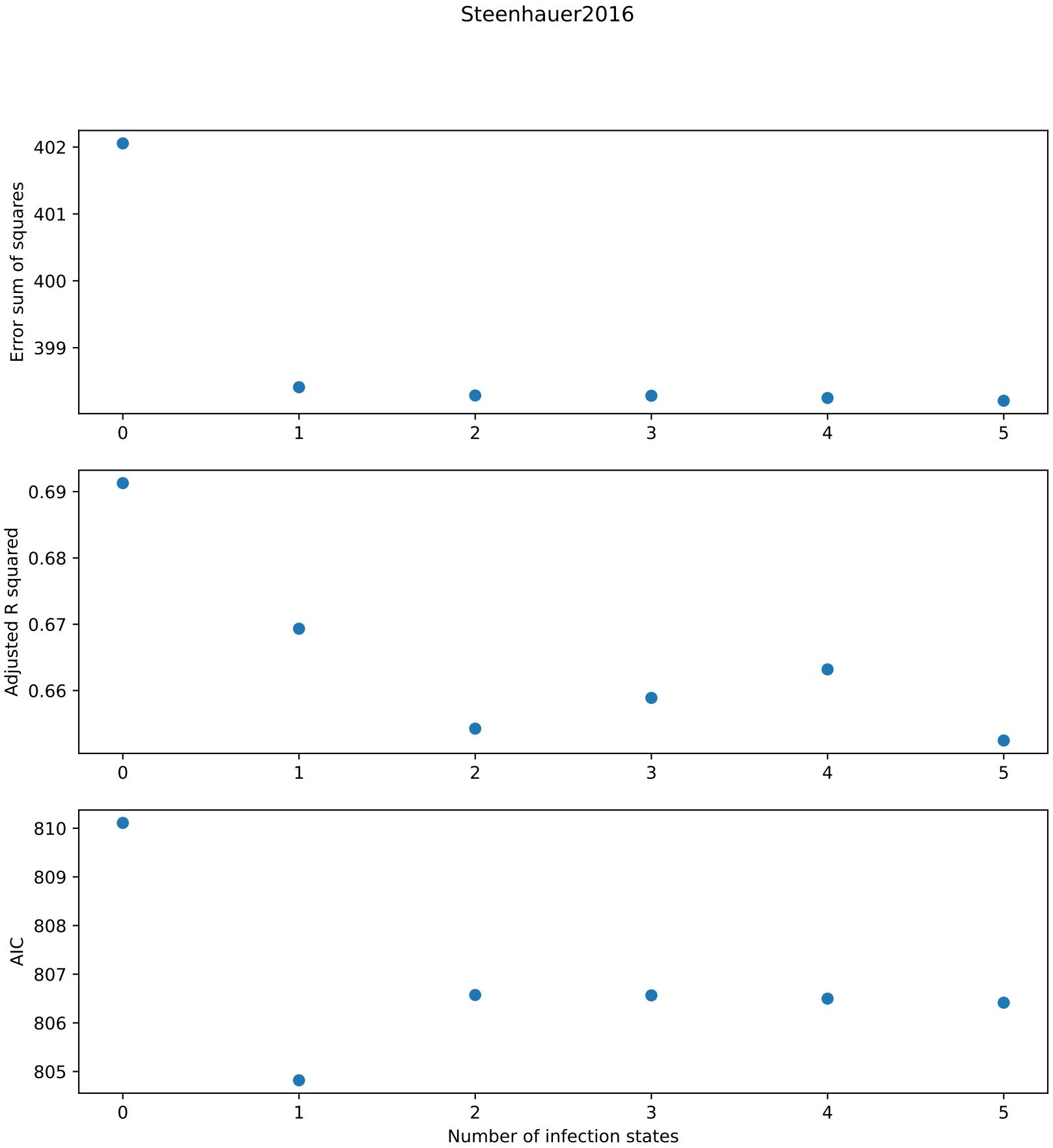
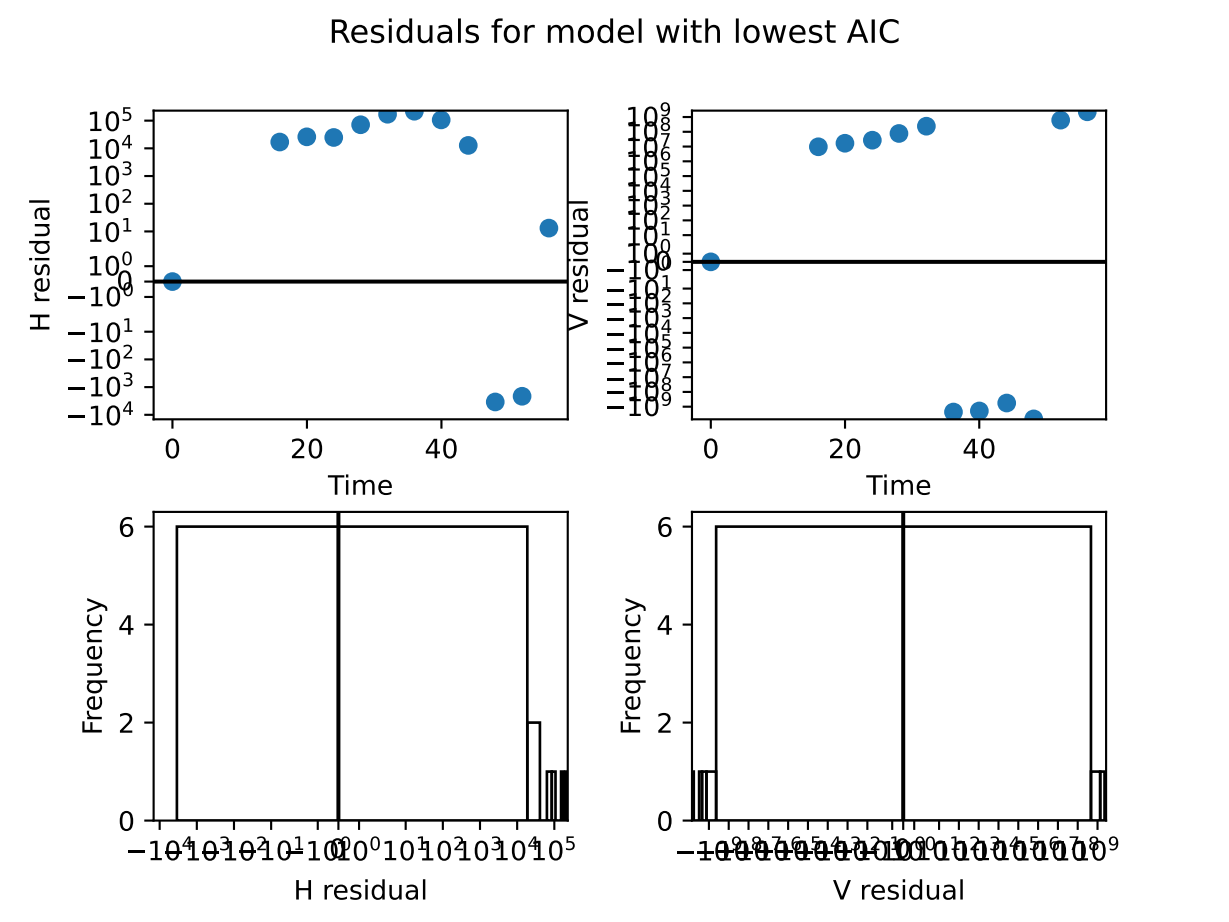

Steenhauer2016
H ml^{-1}
V ml^{-1}
Time
Time
zerol
onel
twol
threel
fourl
fivel

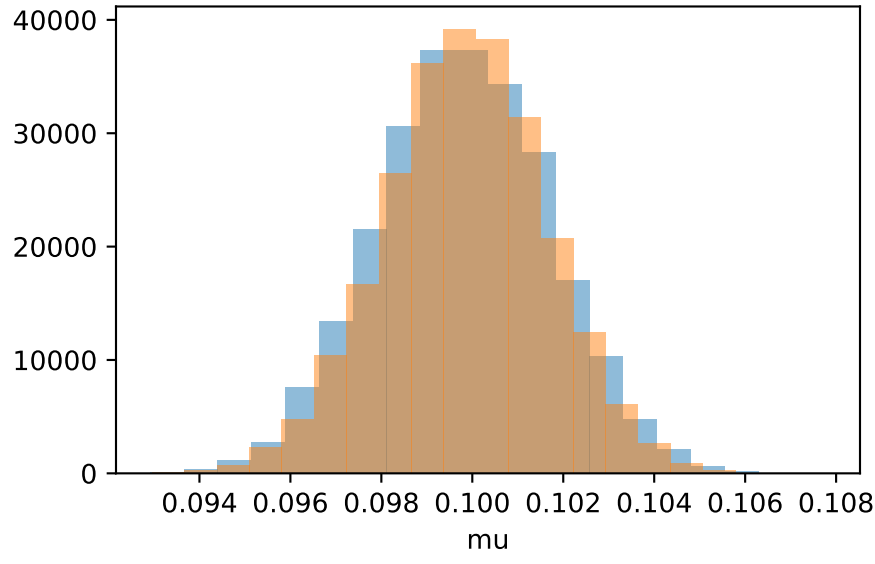
Steenhauer2016

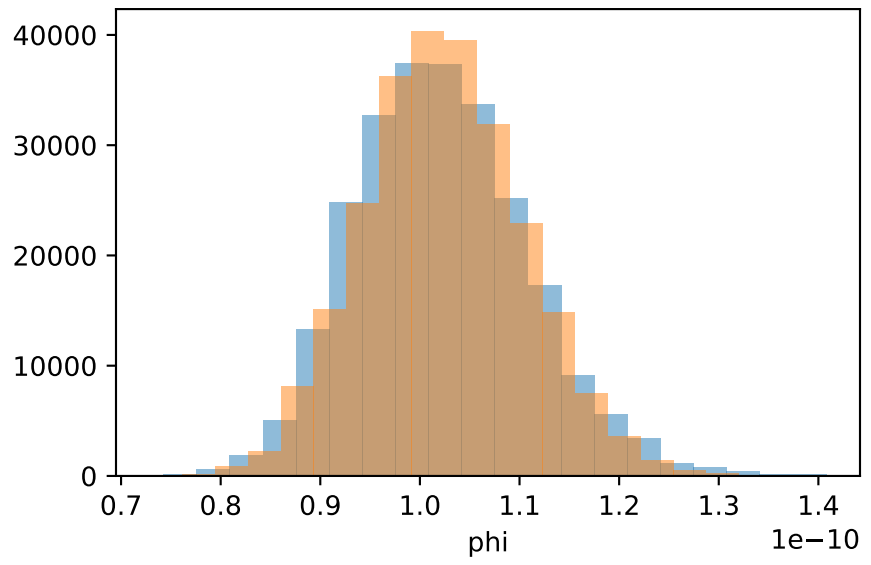


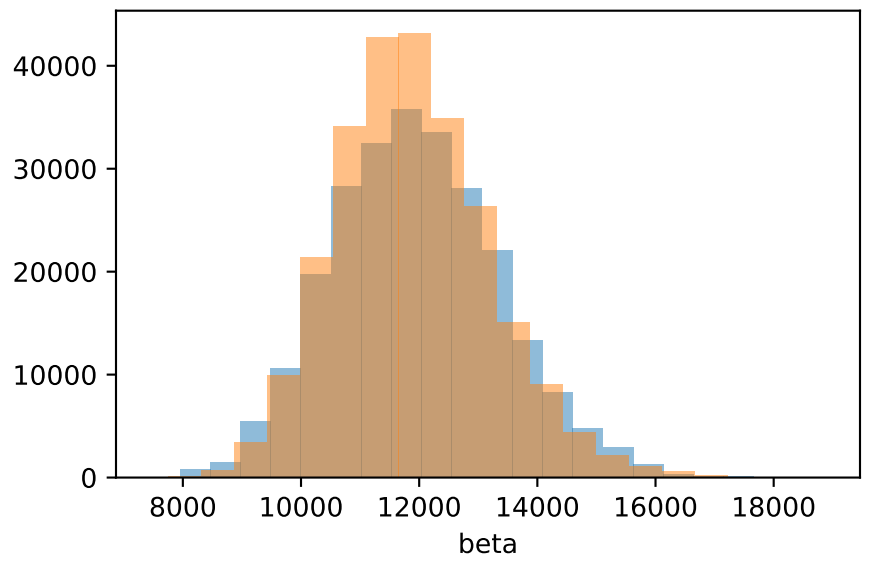

Steenhauer2016
Error sum of squares
402
401
400
399
0
1
2
3
4
5
Adjusted R squared
0.69
0.68
0.67
0.66
0
1
2
3
4
5
AIC
810
809
808
807
806
805
0
1
2
3
4
5
Number of infection states

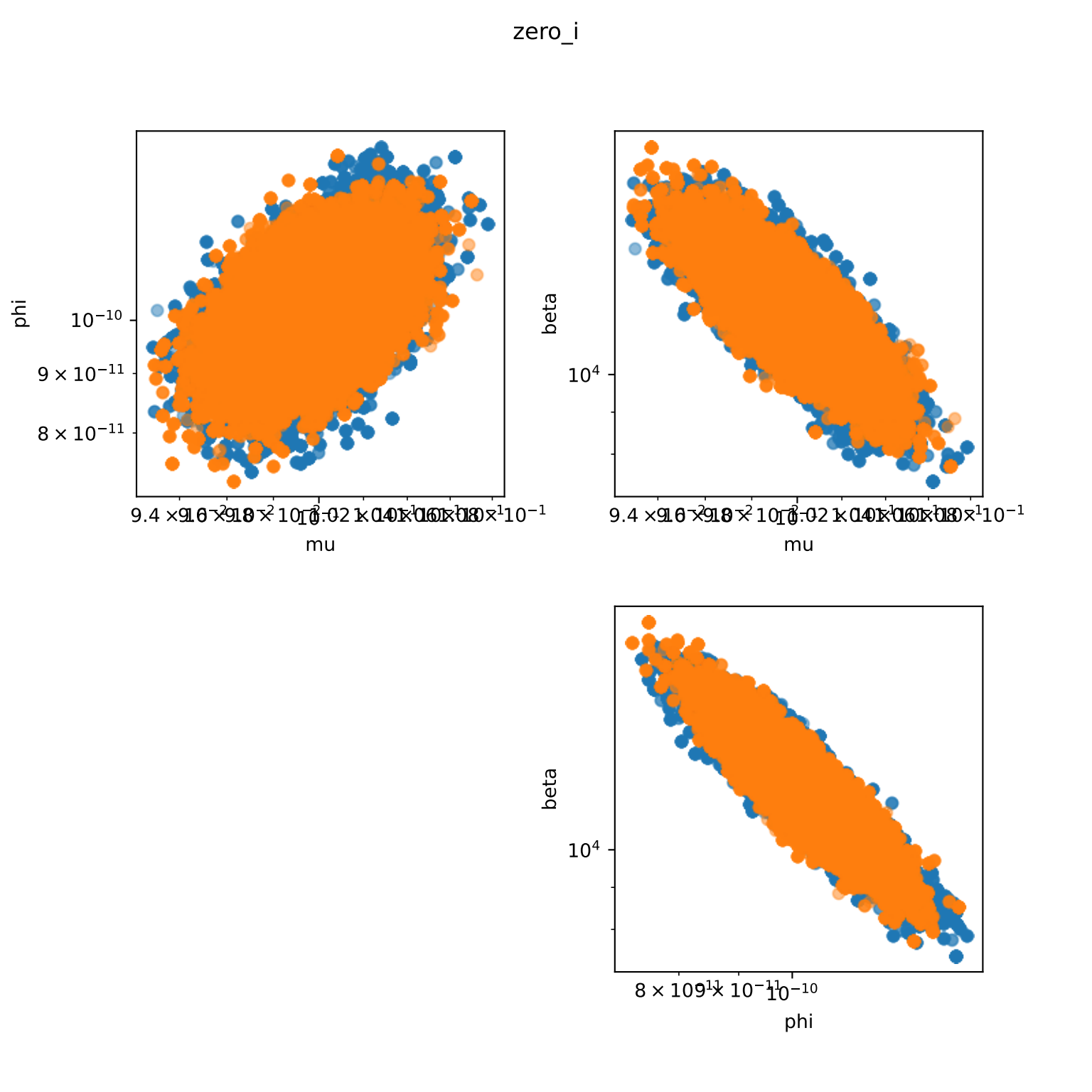

Residuals for model with lowest AIC
H residual
Time
V residual
Time
Frequency
H residual
Frequency
V residual

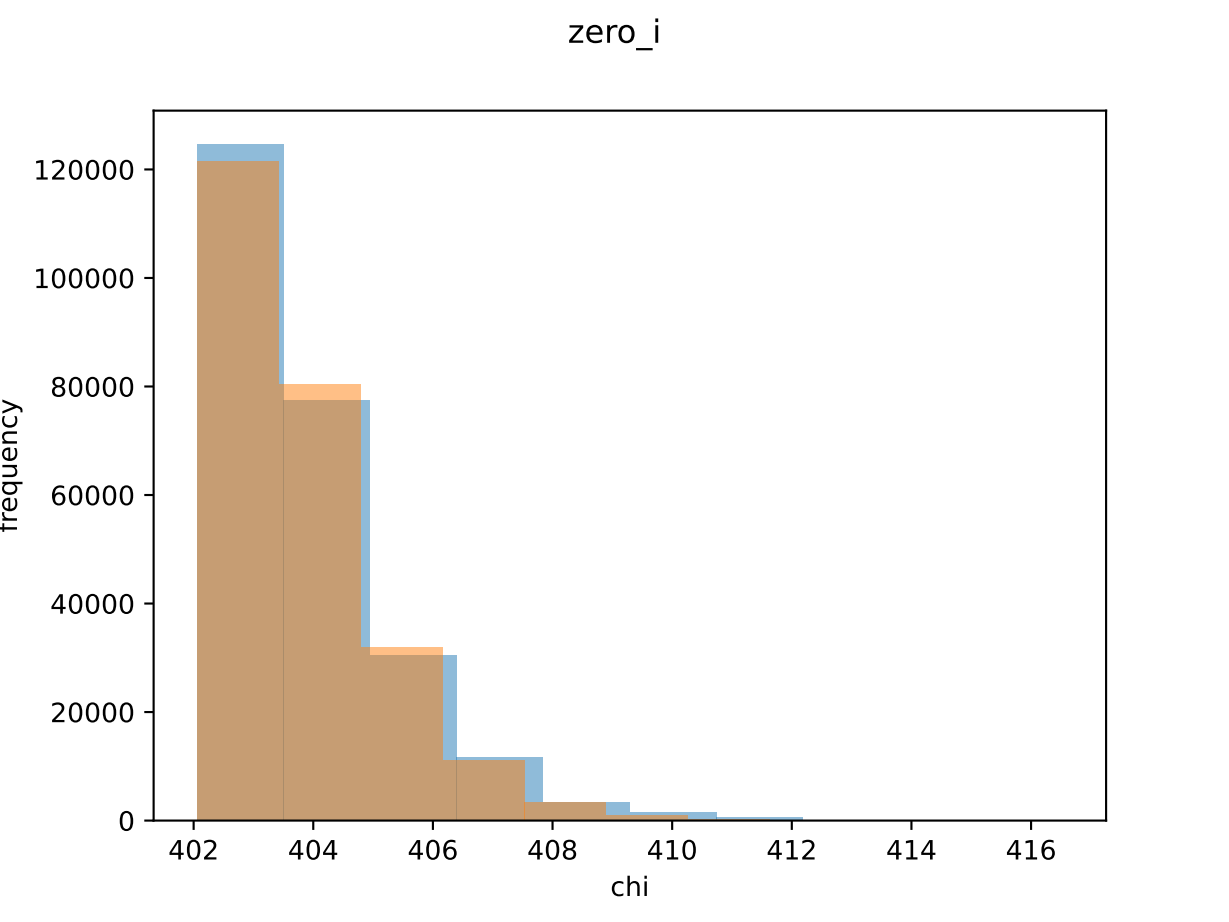
zero_i

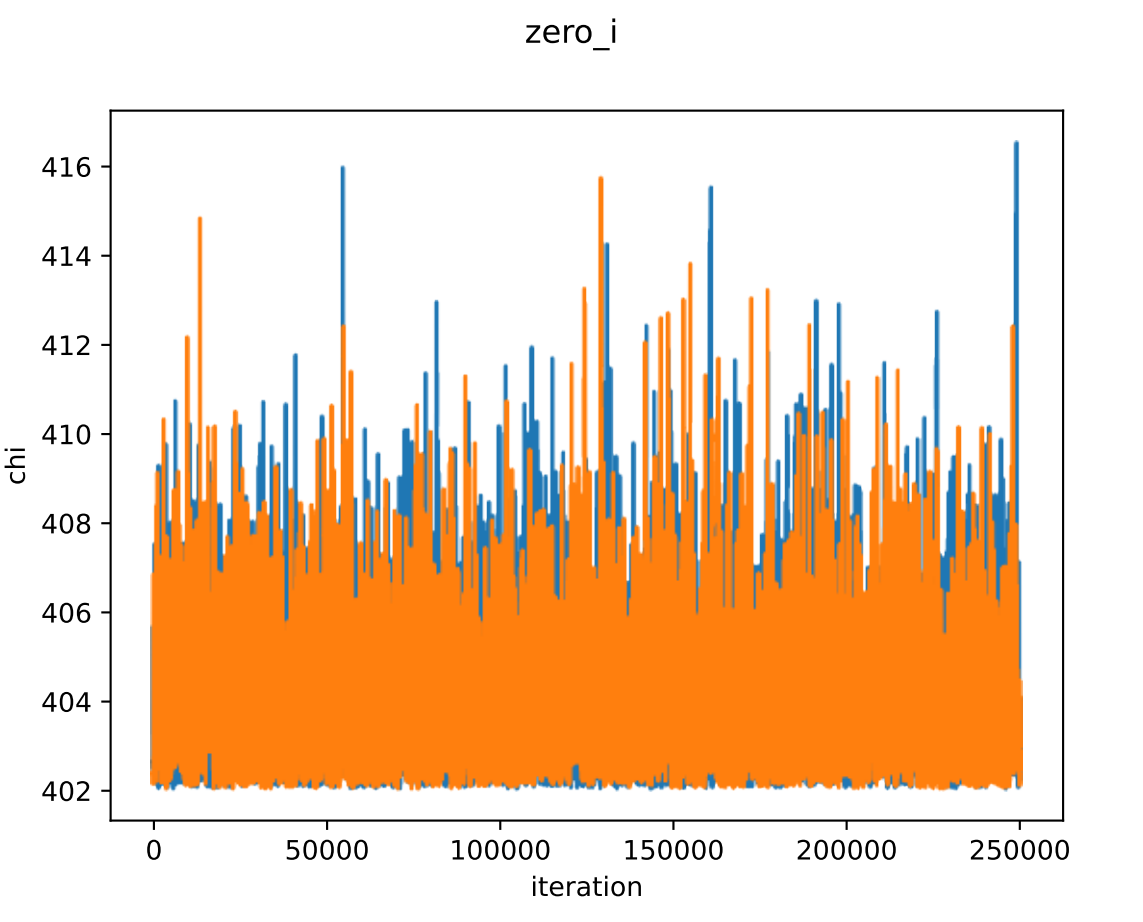

40000
30000
20000
10000
0
0.094
0.096
0.098
0.100
0.102
0.104
0.106
0.108
mu


40000
30000
20000
10000
0
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
phi
1e−10

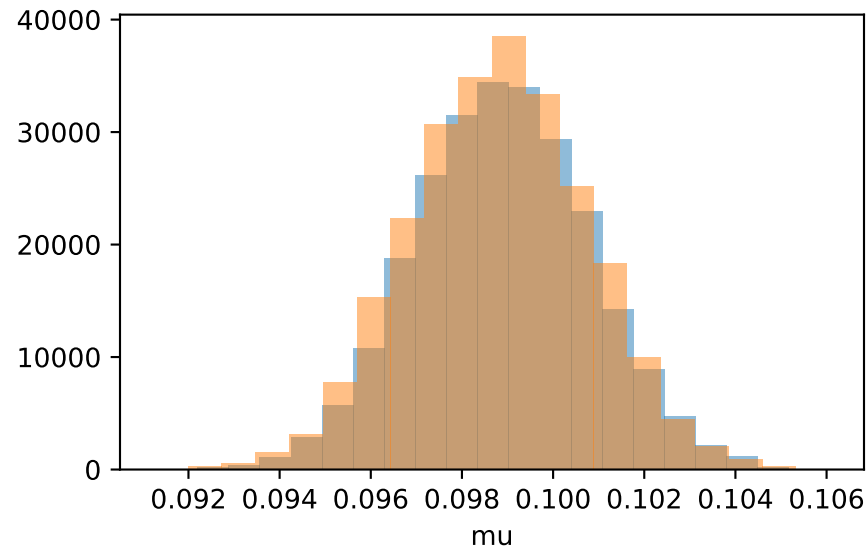

40000
30000
20000
10000
0
8000
10000
12000
14000
16000
18000
beta

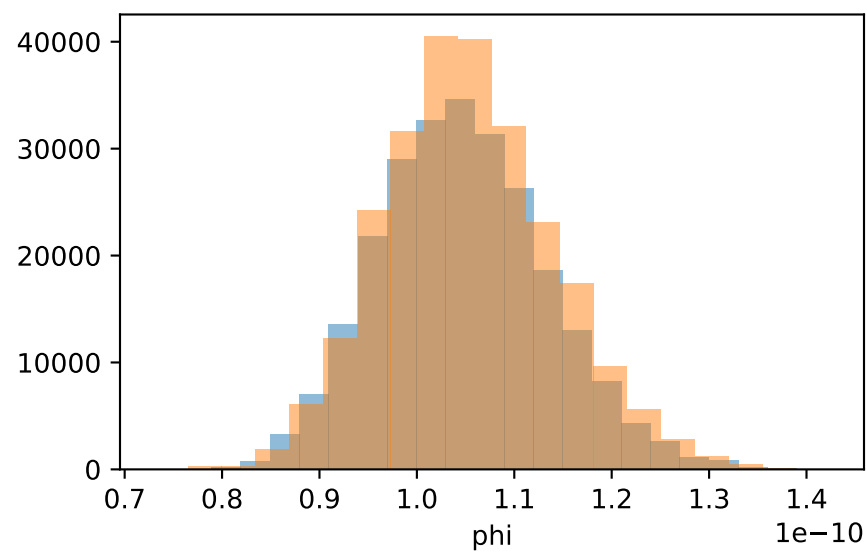

zero_i
phi
beta
mu
phi
beta

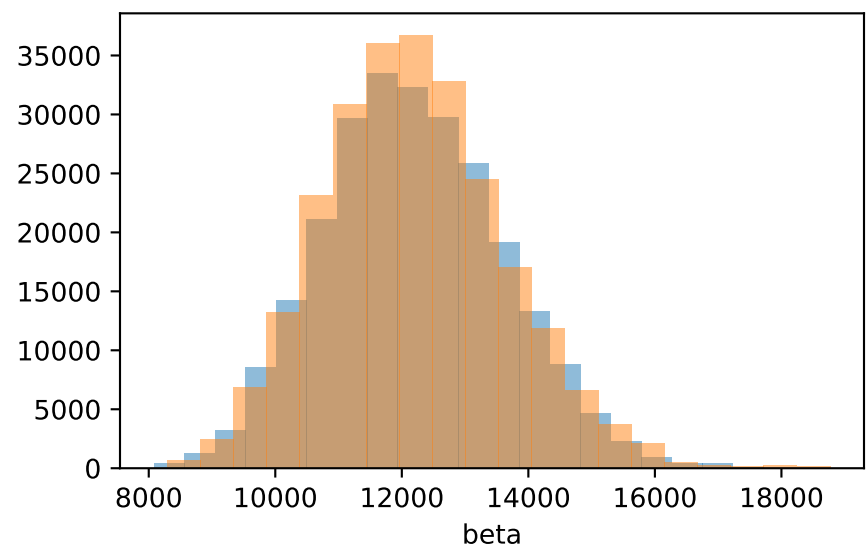

zero_i
120000
100000
80000
60000
40000
20000
0
frequency
402
404
406
408
410
412
414
416
chi

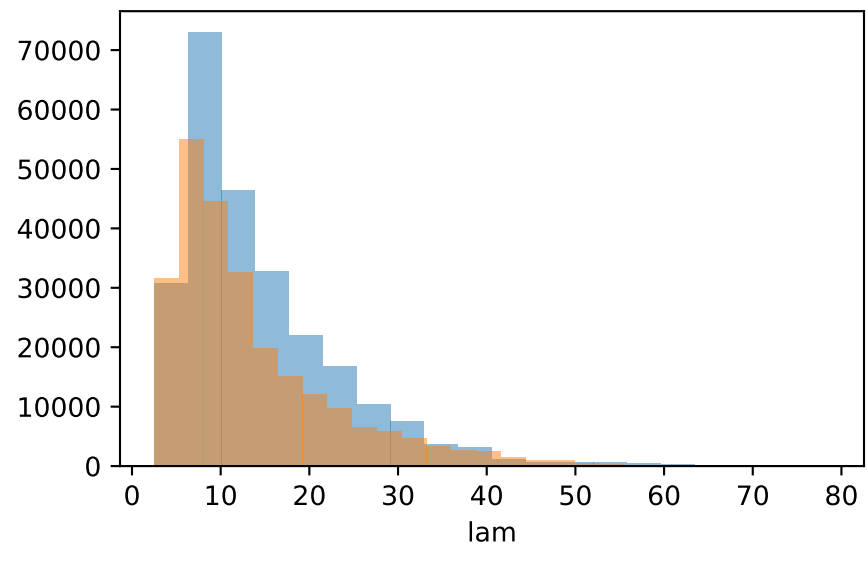

zero_i
chi
416
414
412
410
408
406
404
402
0
50000
100000
150000
200000
250000
iteration

one_i

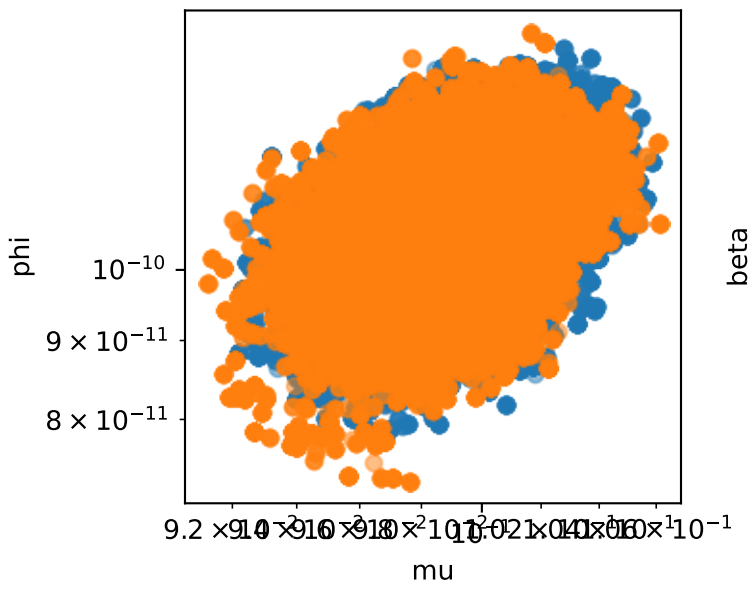

40000
30000
20000
10000
0
0.092
0.094
0.096
0.098
0.100
0.102
0.104
0.106
mu

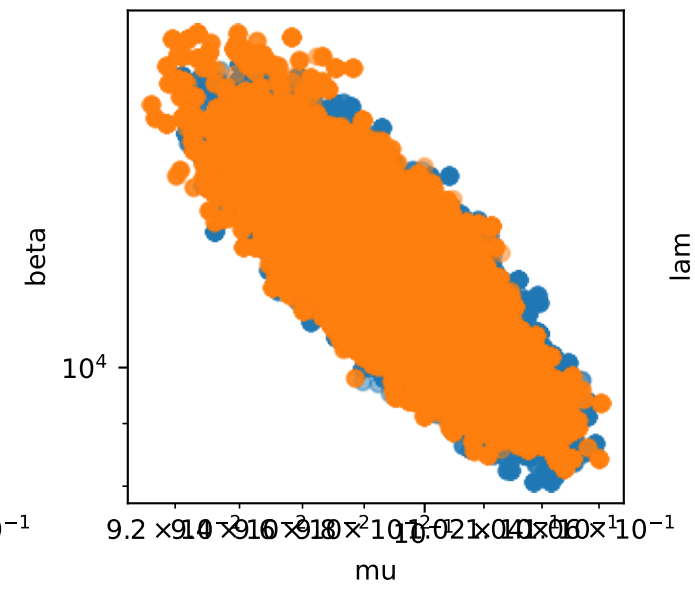

40000
30000
20000
10000
0
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
phi
1e−10

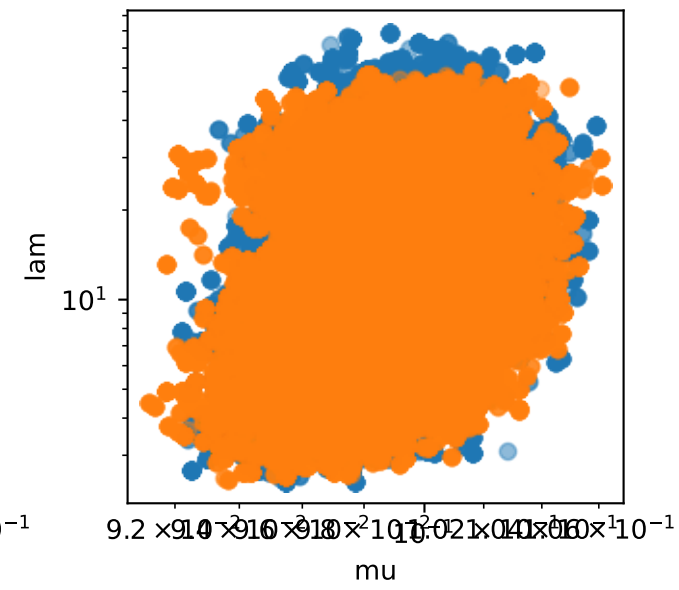

35000
30000
25000
20000
15000
10000
5000
0
8000
10000
12000
14000
16000
18000
beta

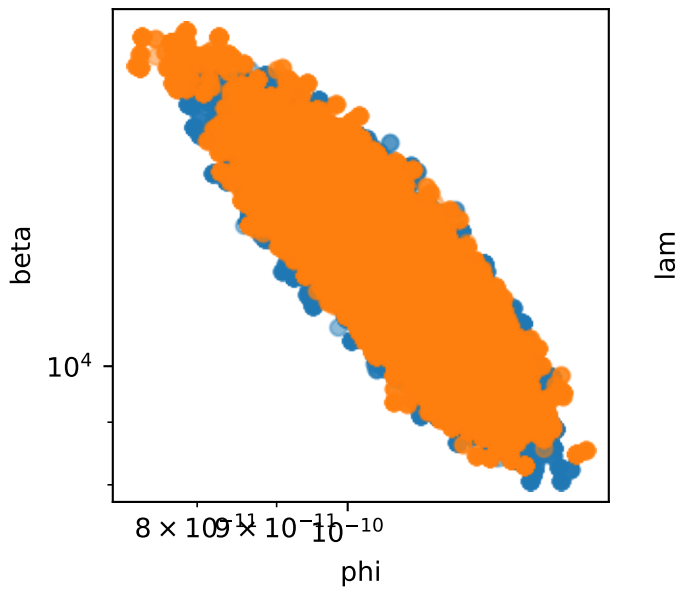

70000
60000
50000
40000
30000
20000
10000
0
0
10
20
30
40
50
60
70
80
lam

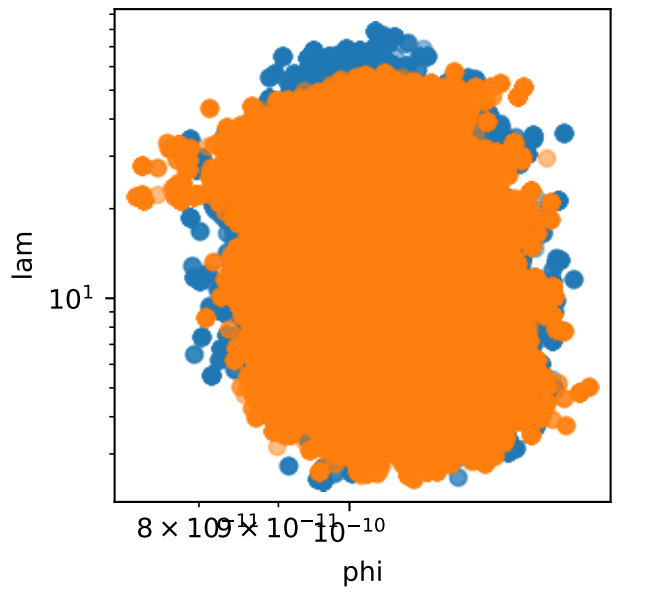
one_i

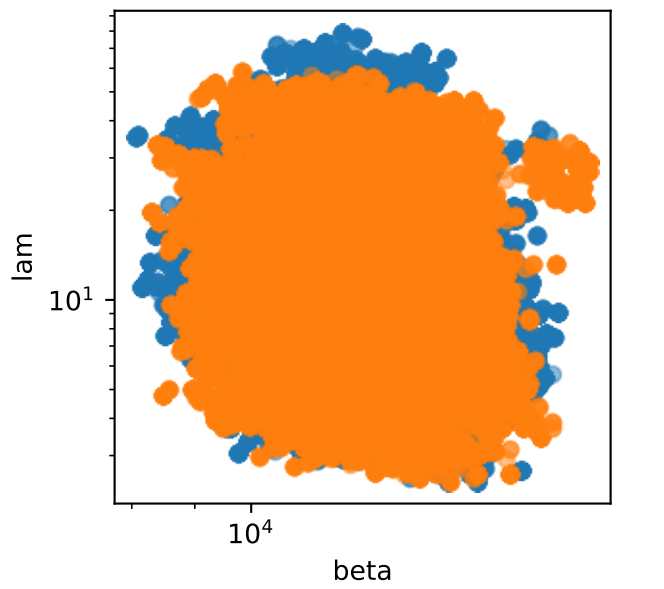

phi
10^{-10}
9×10^{-11}
8×10^{-11}
mu

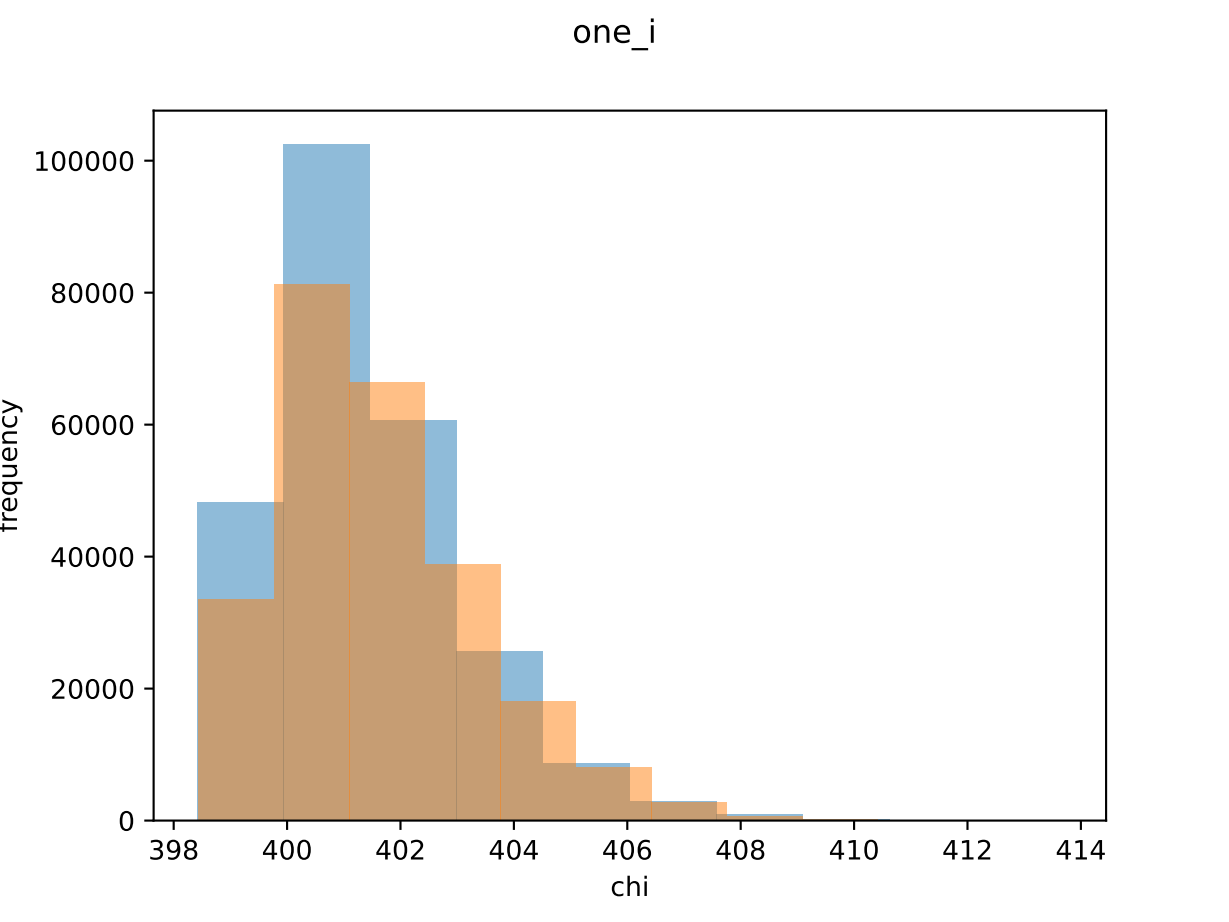

beta
10^{4}
mu

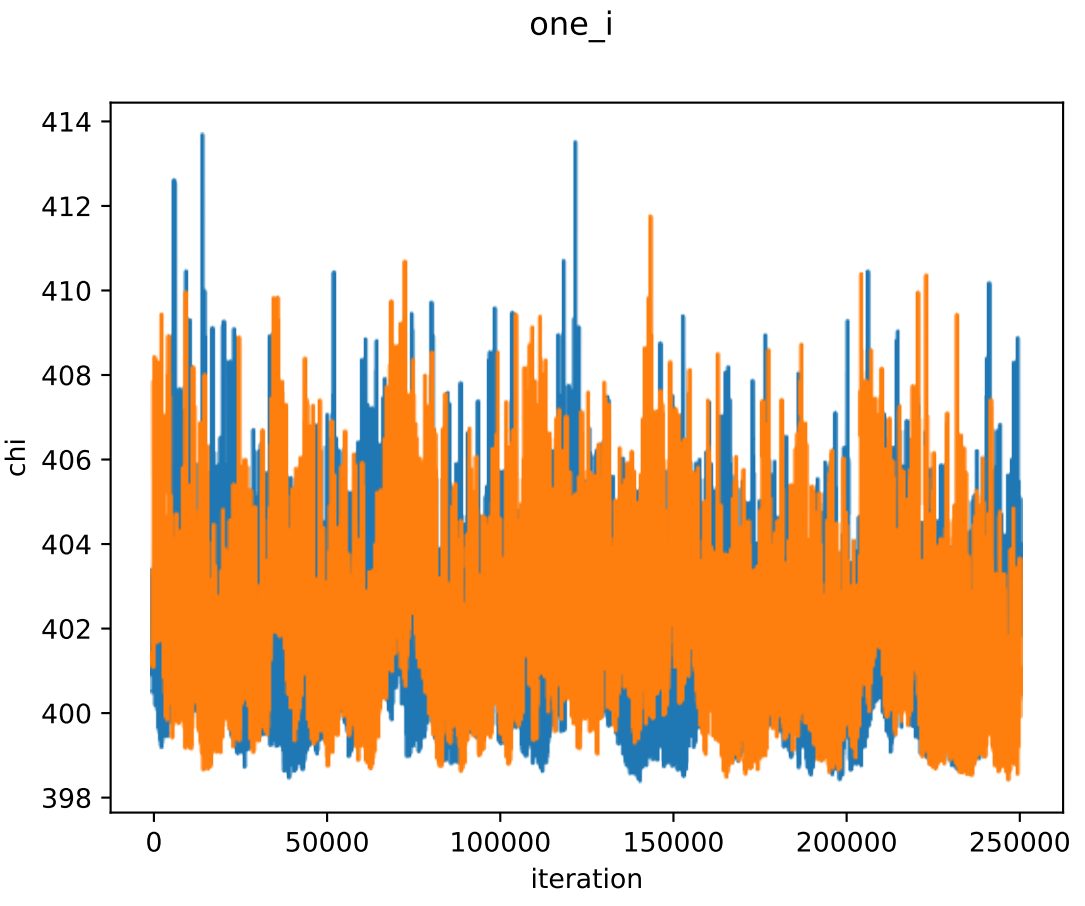

lam
10^{1}
mu


beta
10^{4}
8×10^{-11}
9×10^{-11}
10^{-10}
phi

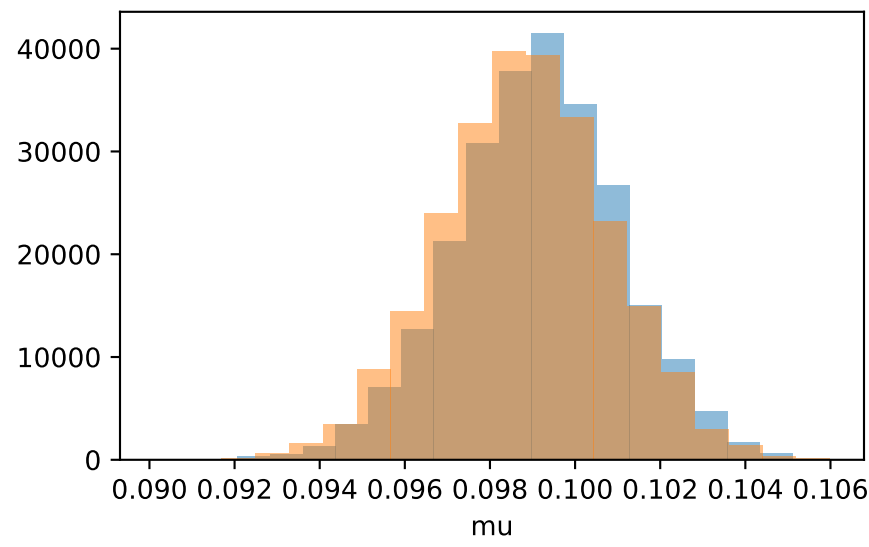

lam
10^{1}
8×10^{-11}
9×10^{-11}
10^{-10}
phi

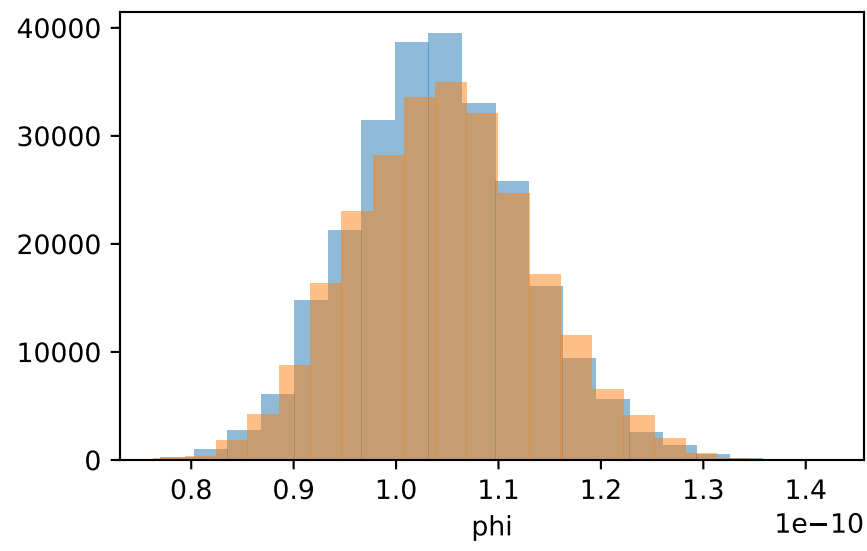

lam
10^{1}
10^{4}
beta

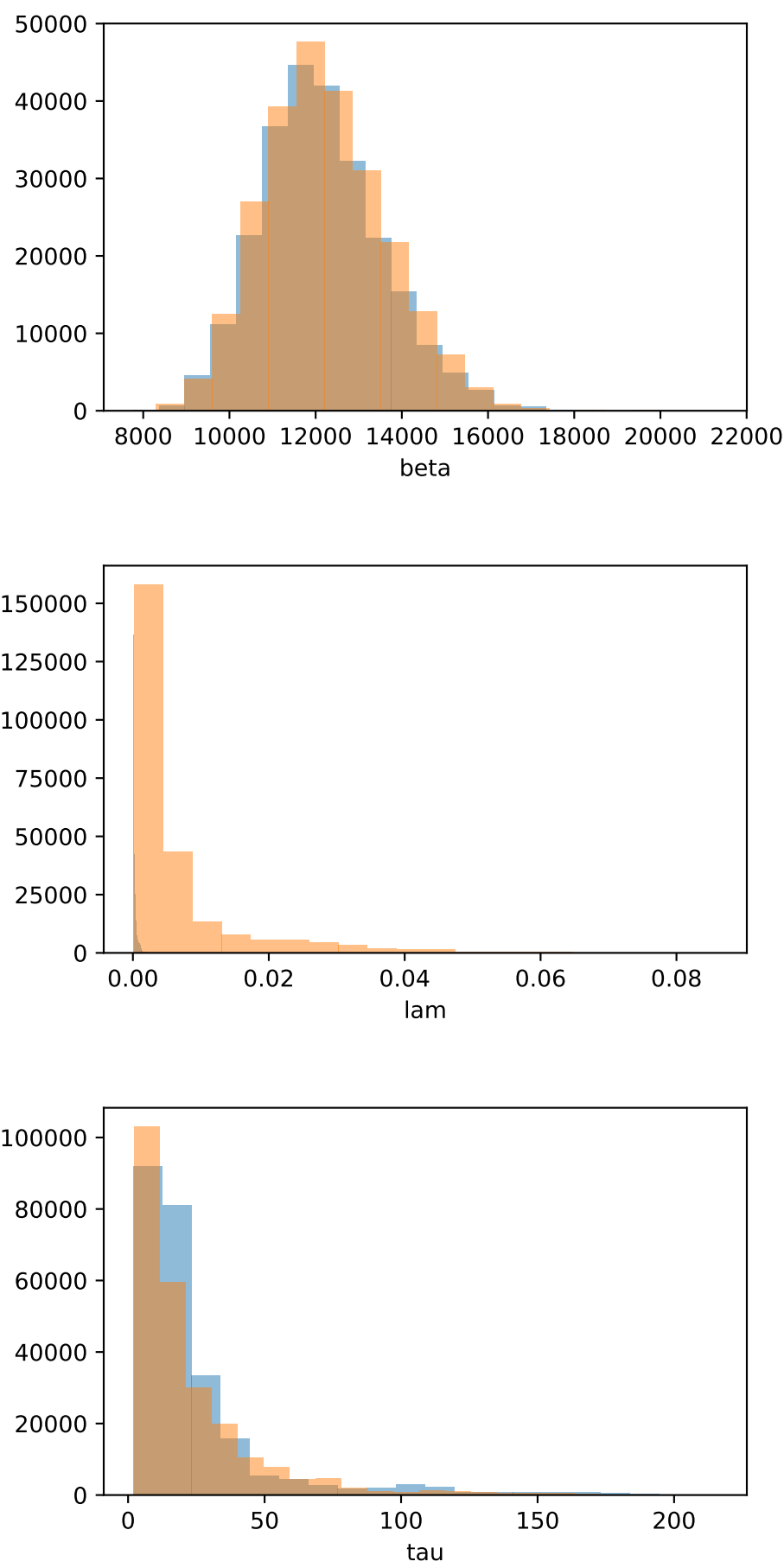

one_i
100000
80000
60000
40000
20000
0
frequency
398
400
402
404
406
408
410
412
414
chi


one_i
414
412
410
408
406
404
402
400
398
chi
0
50000
100000
150000
200000
250000
iteration

two_i


40000
30000
20000
10000
0
0.090 0.092 0.094 0.096 0.098 0.100 0.102 0.104 0.106
mu

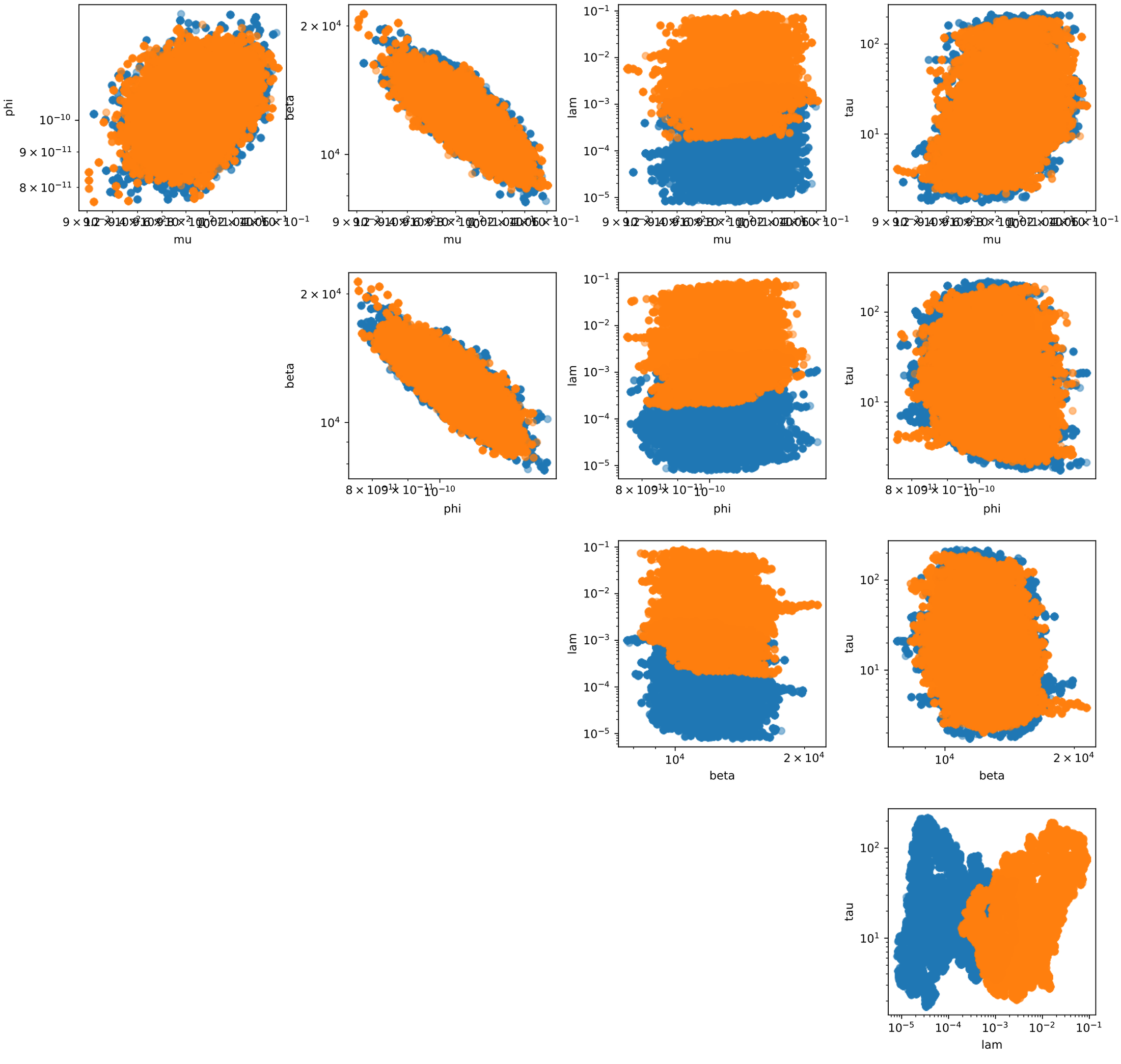

40000
30000
20000
10000
0
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1e−10
phi

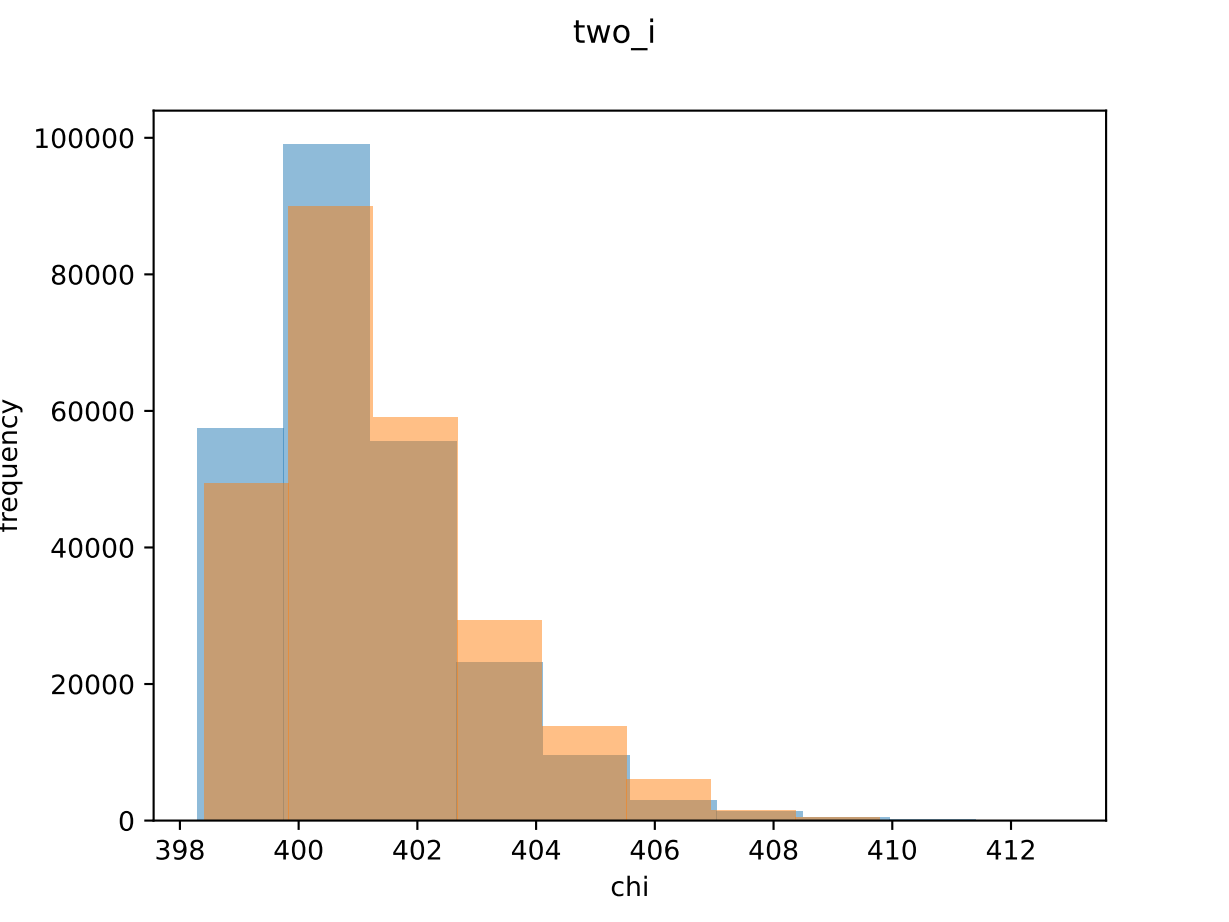

50000
40000
30000
20000
10000
0
8000 10000 12000 14000 16000 18000 20000 22000
beta

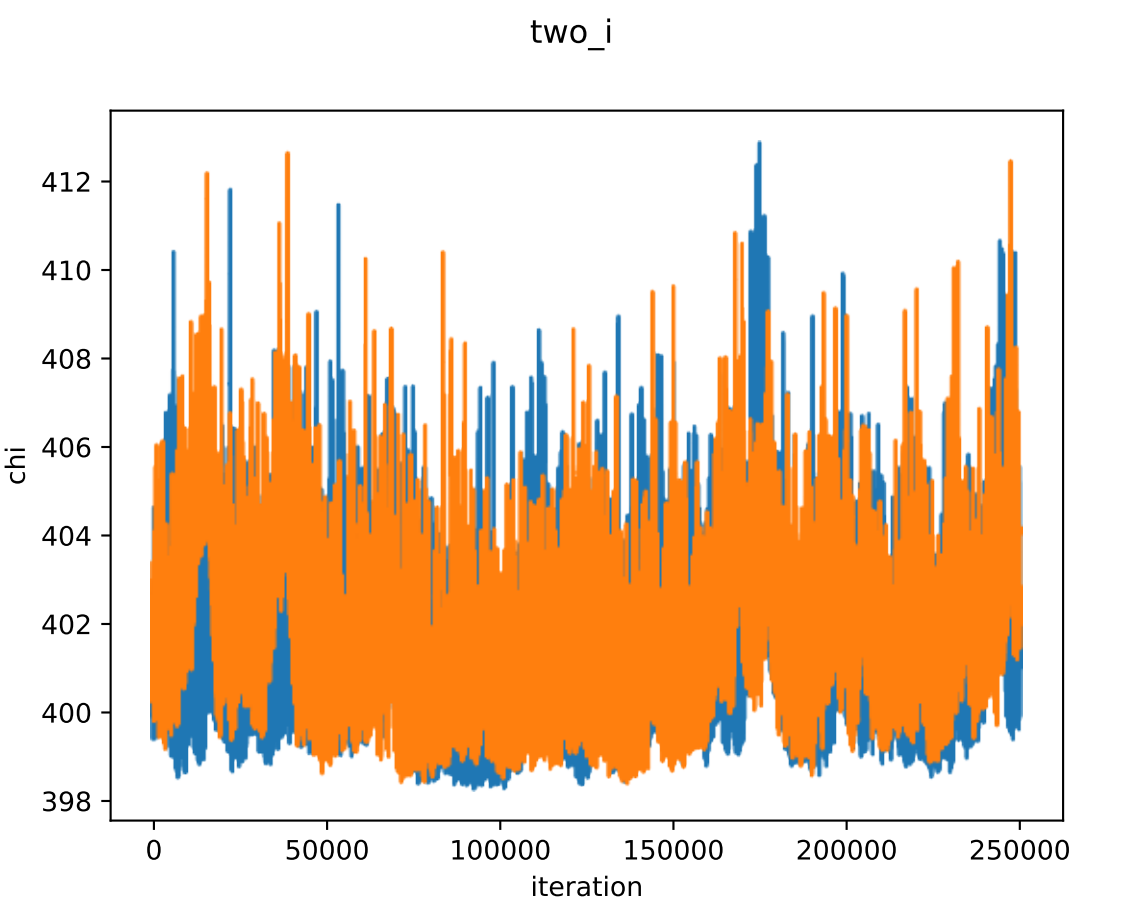
150000
125000
100000
75000
50000
25000
0
0.00
0.02
0.04
0.06
0.08
lam

100000
80000
60000
40000
20000
0
0
50
100
150
200
tau

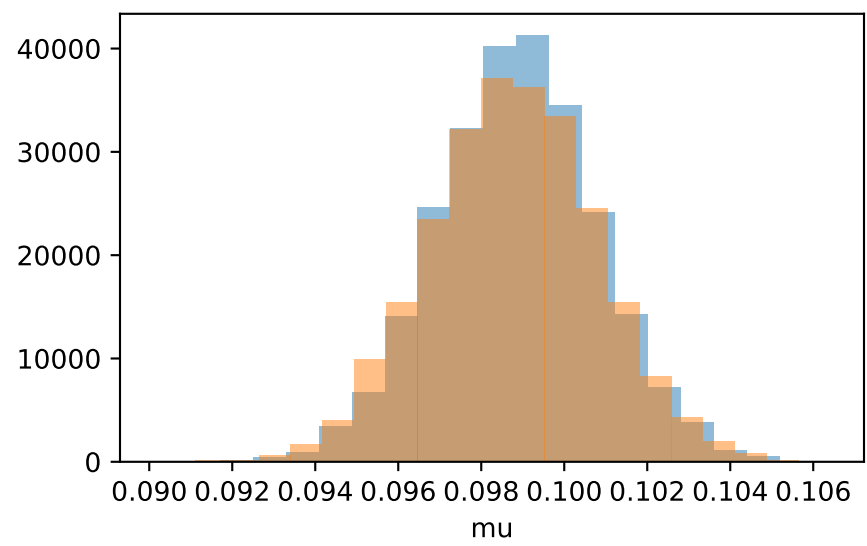
two_i

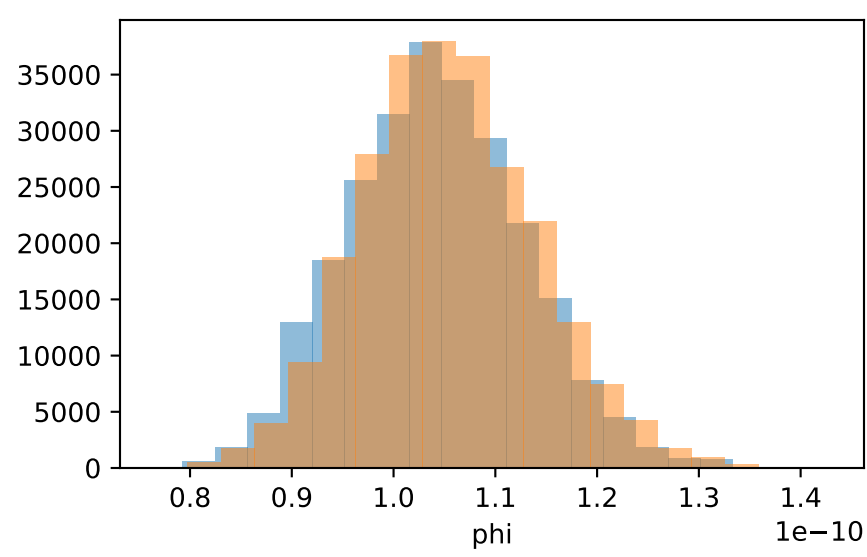


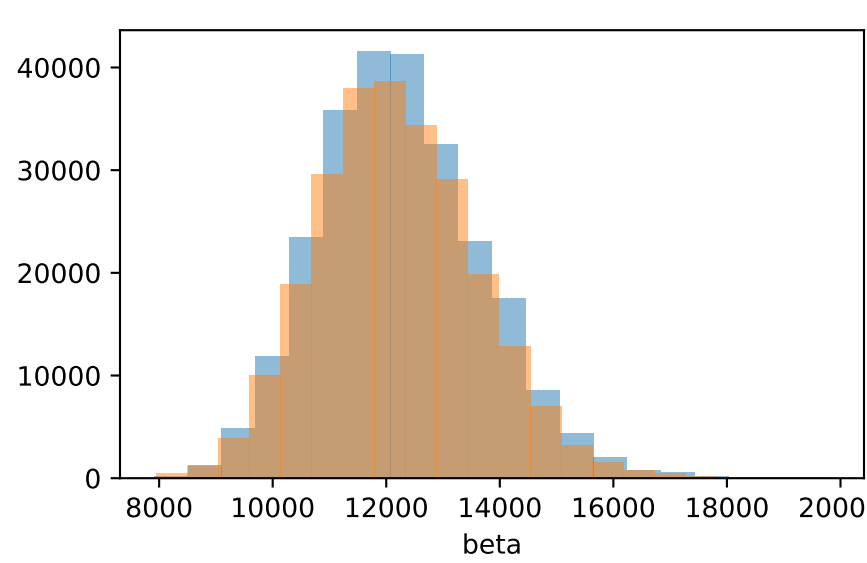

two_i
100000
80000
60000
40000
20000
0
frequency
398
400
402
404
406
408
410
412
chi

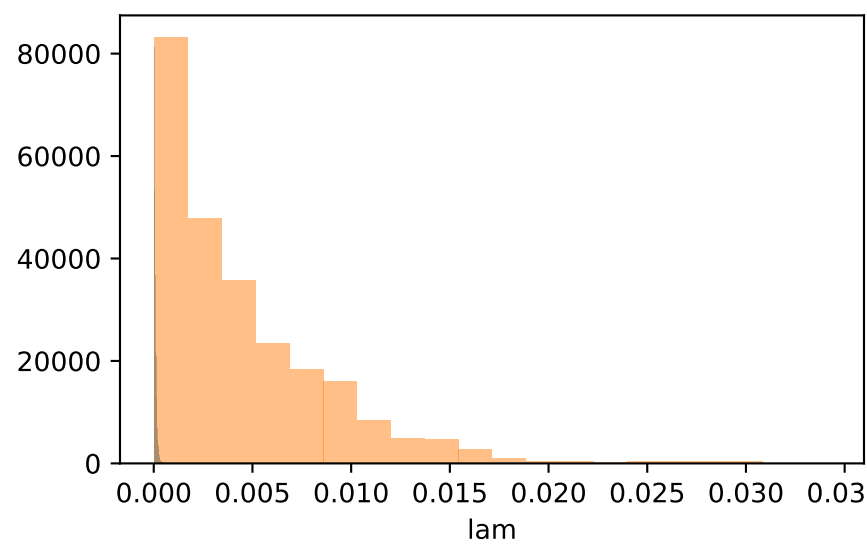

two_i
chi
iteration
412
410
408
406
404
402
400
398
0
50000
100000
150000
200000
250000

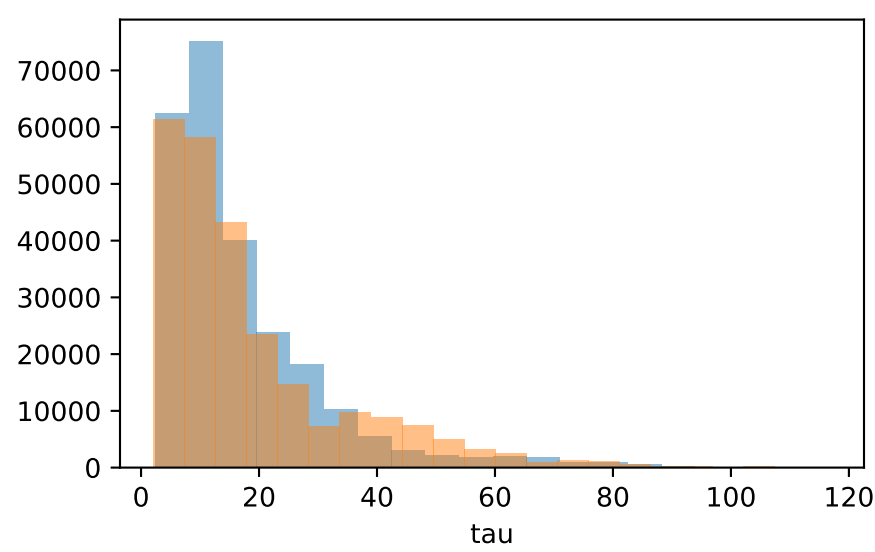
three_i


40000
30000
20000
10000
0
0.090 0.092 0.094 0.096 0.098 0.100 0.102 0.104 0.106
mu

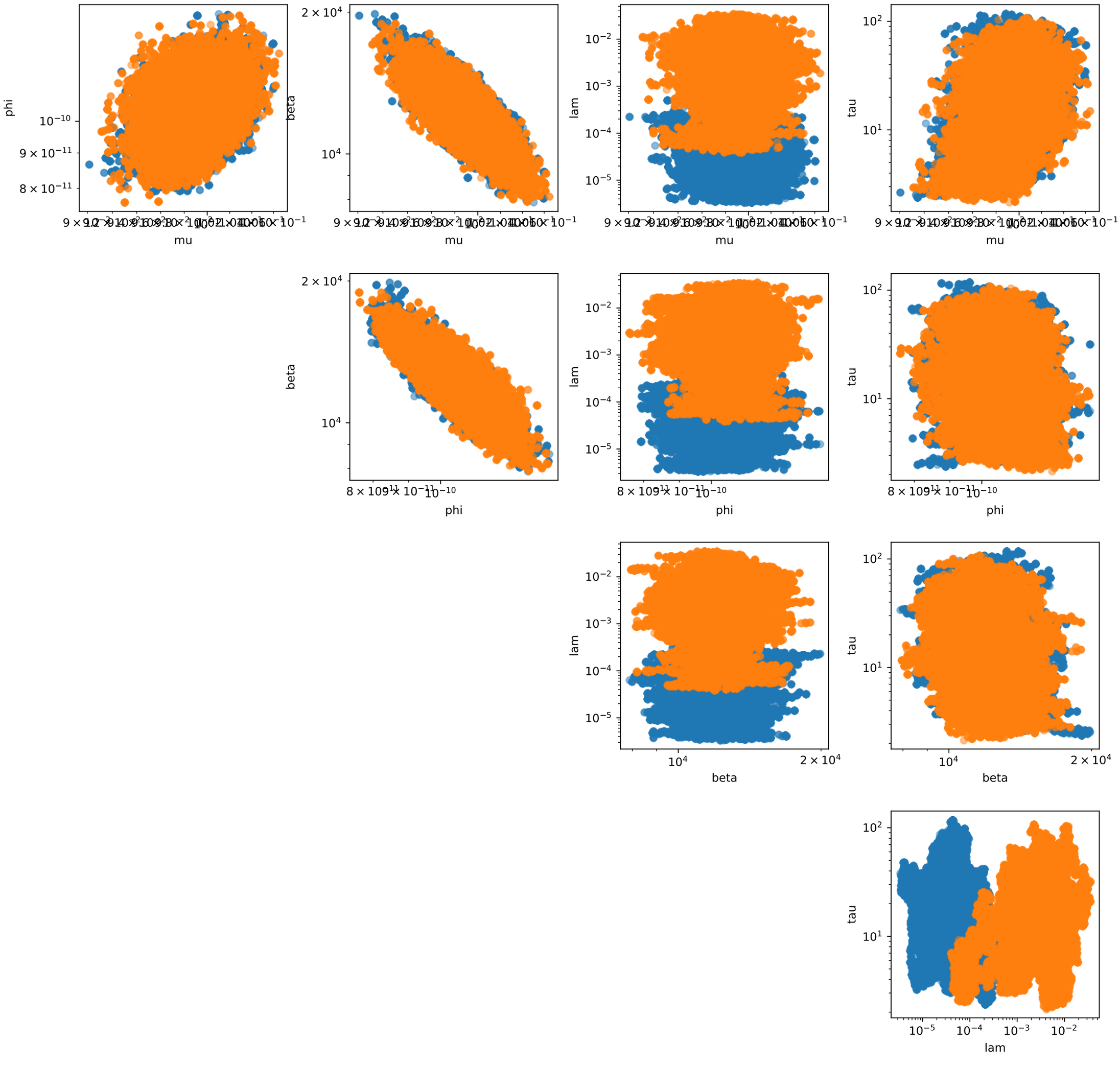

35000
30000
25000
20000
15000
10000
5000
0
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1e−10
phi

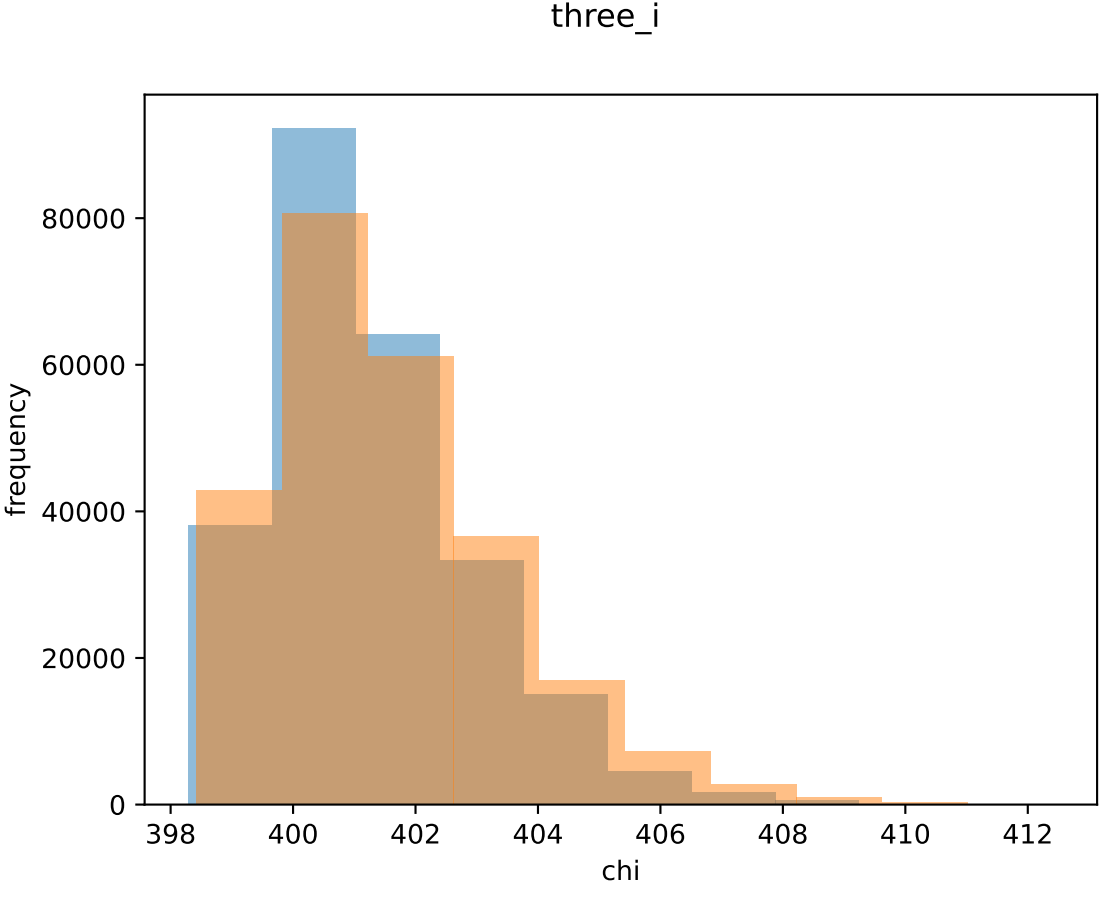

40000
30000
20000
10000
0
8000
10000
12000
14000
16000
18000
20000
beta

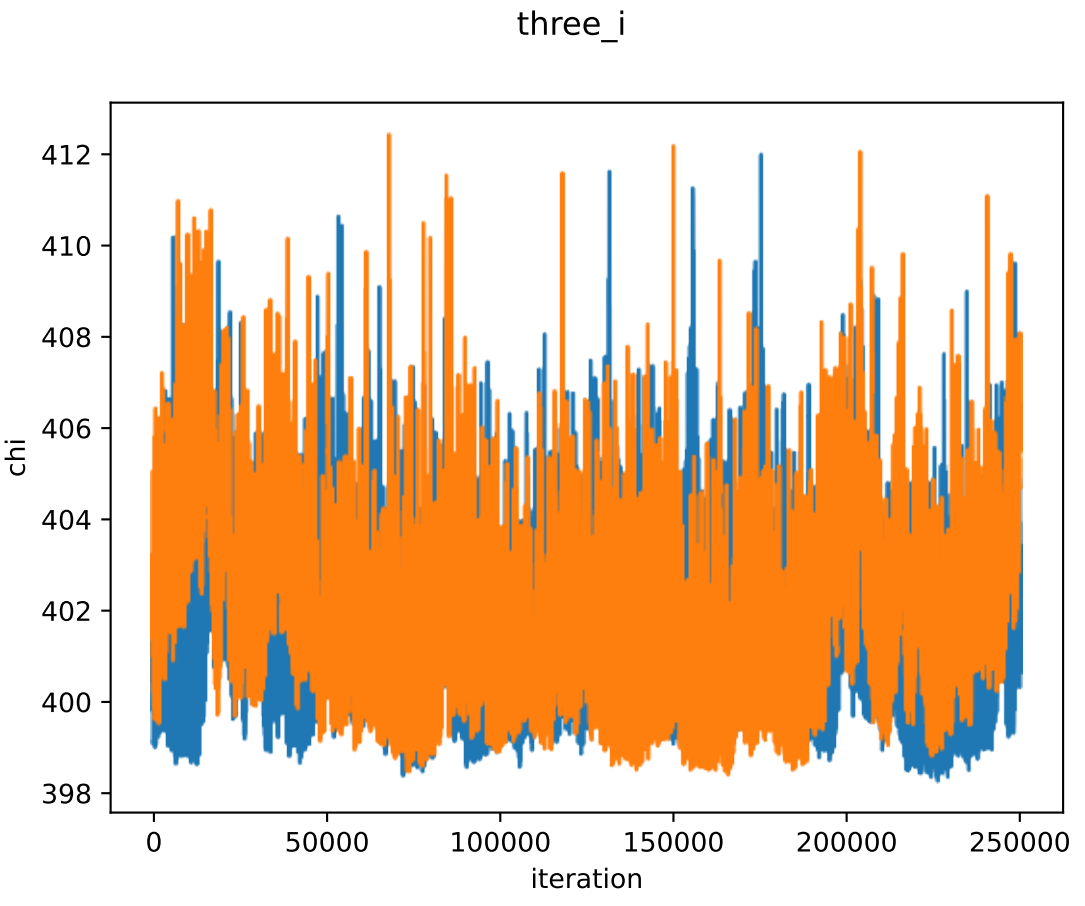

80000
60000
40000
20000
0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
lam


70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
120
tau

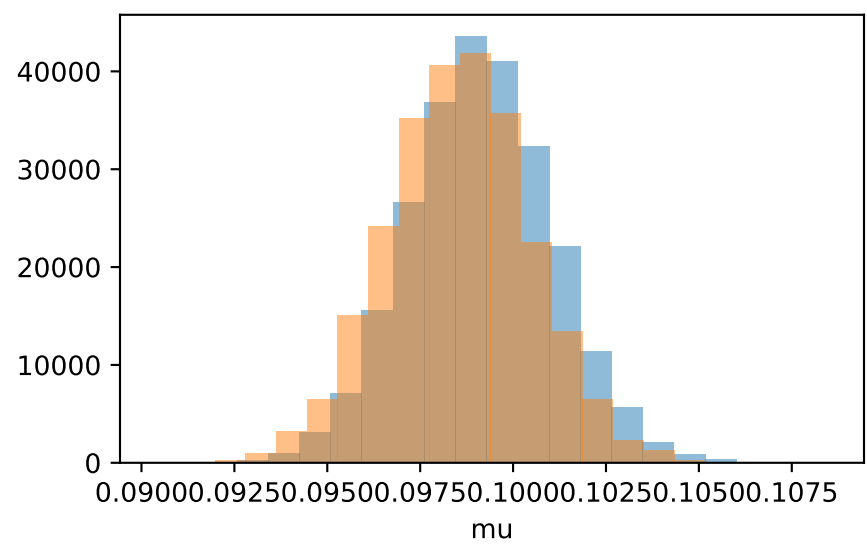
three_i

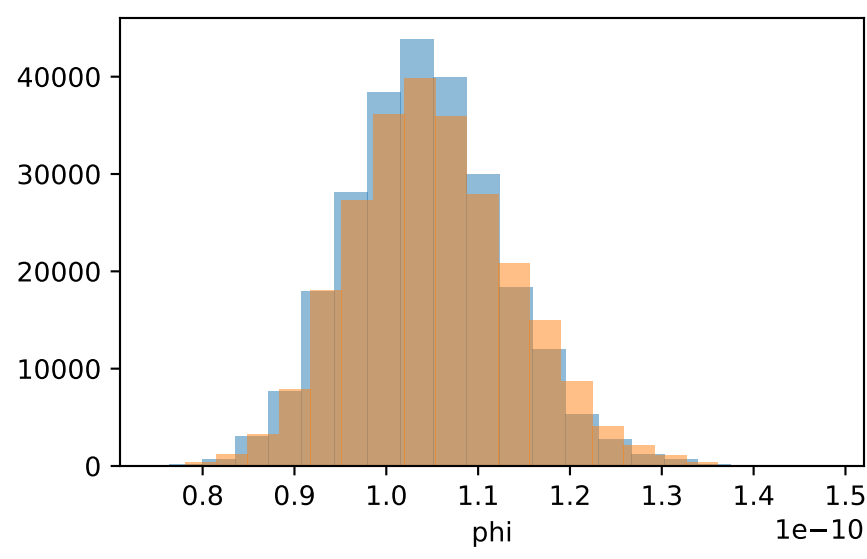


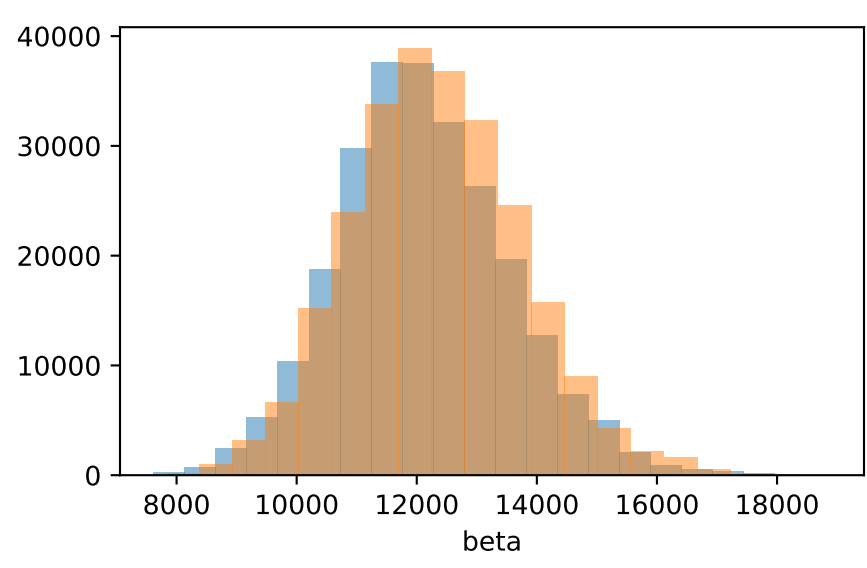

three_i
frequency
80000
60000
40000
20000
0
398
400
402
404
406
408
410
412
chi

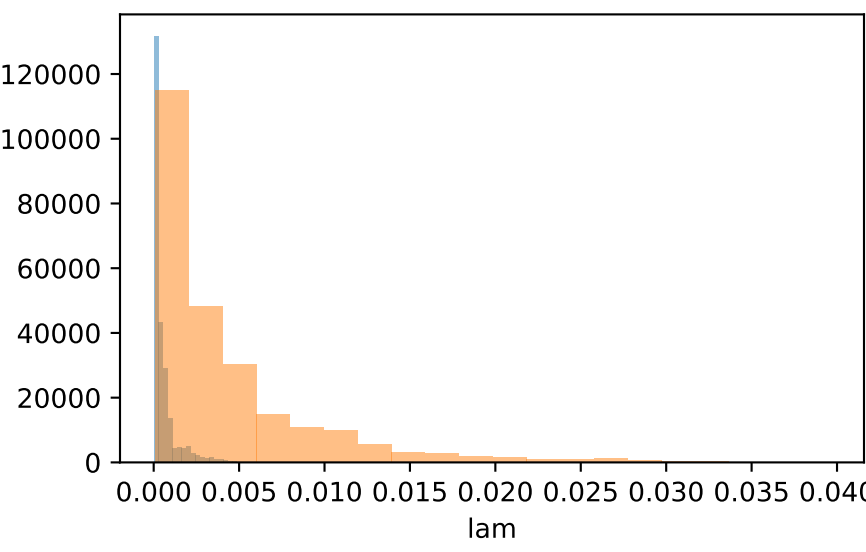

three_i
412
410
408
406
404
402
400
398
chi
0
50000
100000
150000
200000
250000
iteration

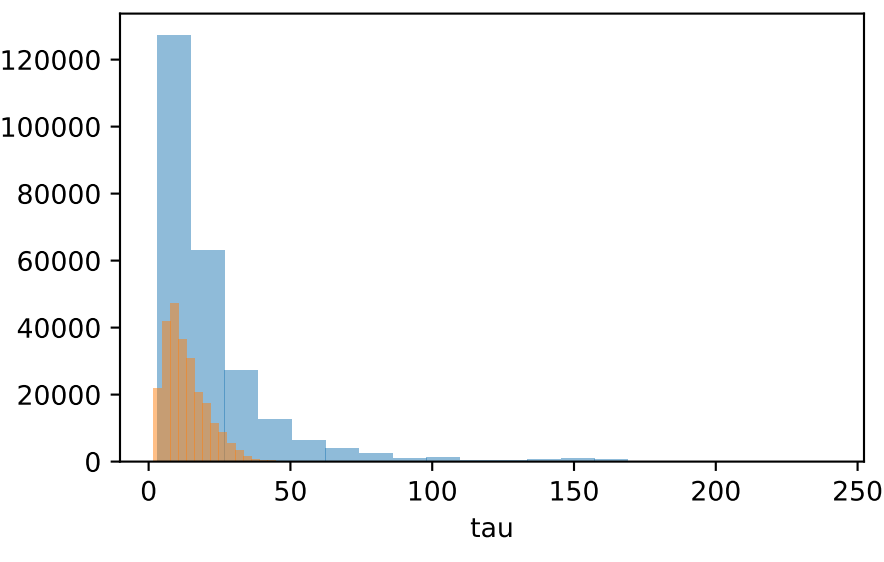
four_i


40000
30000
20000
10000
0
0.09000.09250.09500.09750.10000.10250.10500.1075
mu

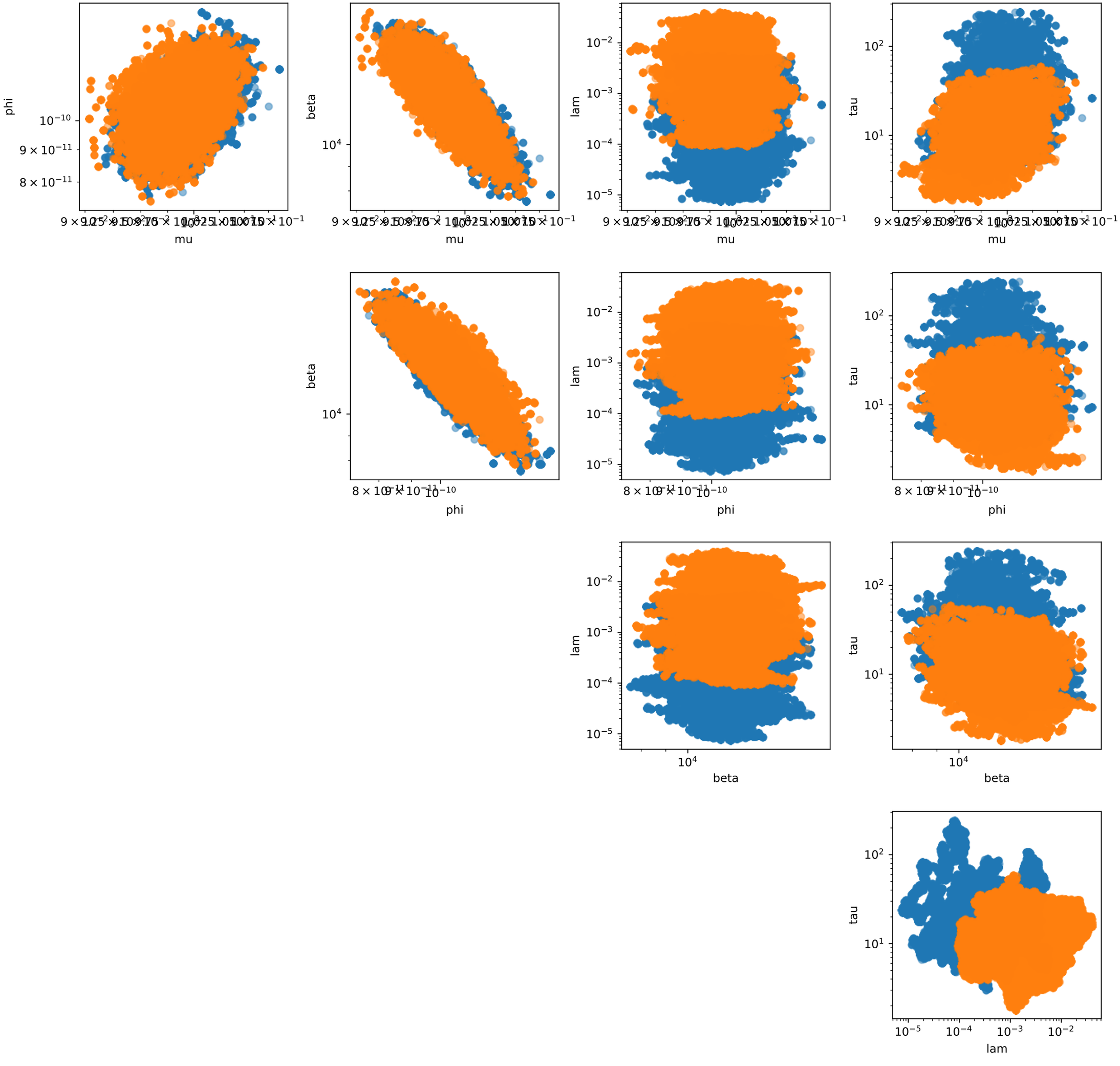

40000
30000
20000
10000
0
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
phi
1e−10

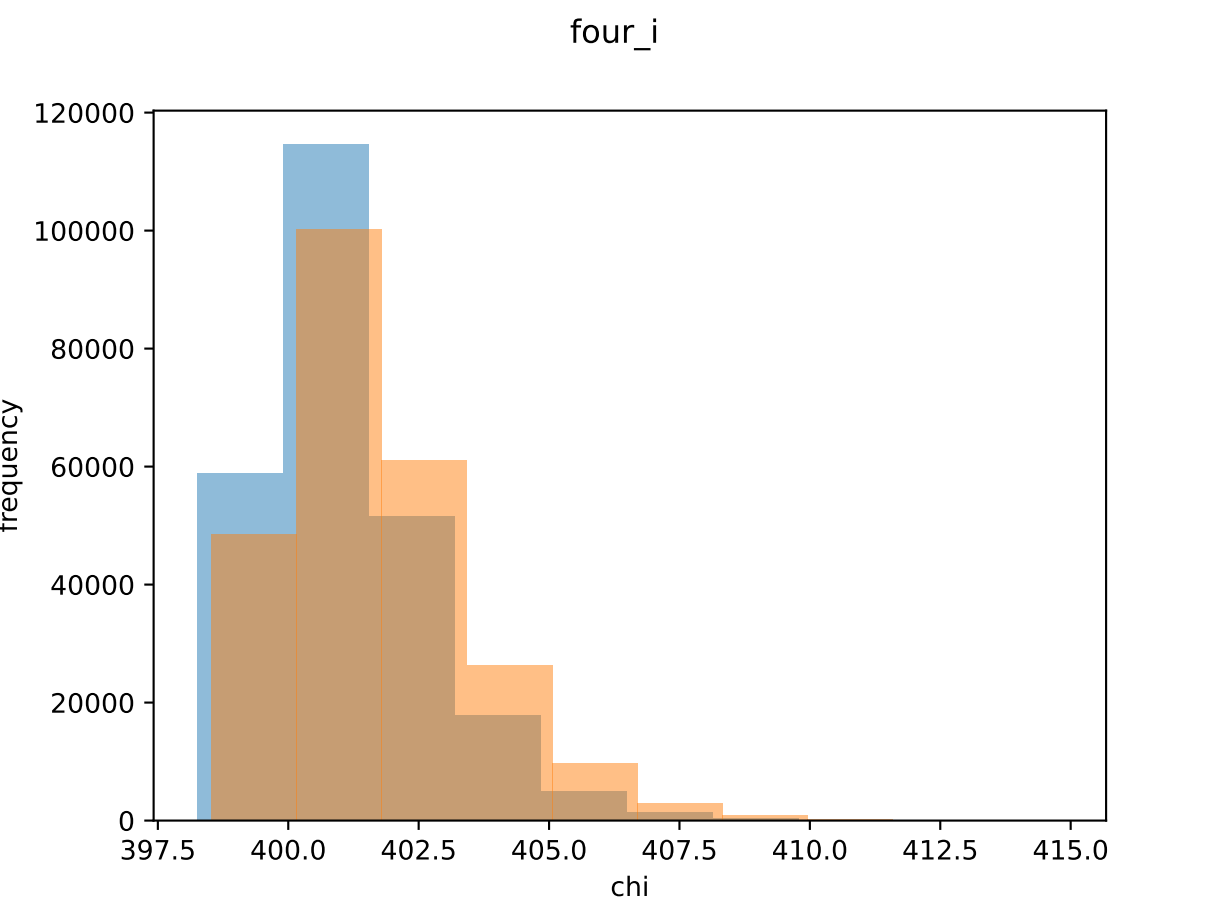

40000
30000
20000
10000
0
8000
10000
12000
14000
16000
18000
beta


120000
100000
80000
60000
40000
20000
0
0.000 0.005 0.010 0.015 0.020 0.025 0.030 0.035 0.040
lam


120000
100000
80000
60000
40000
20000
0
0
50
100
150
200
250
tau

four_i




four_i
120000
100000
80000
60000
40000
20000
0
frequency
397.5
400.0
402.5
405.0
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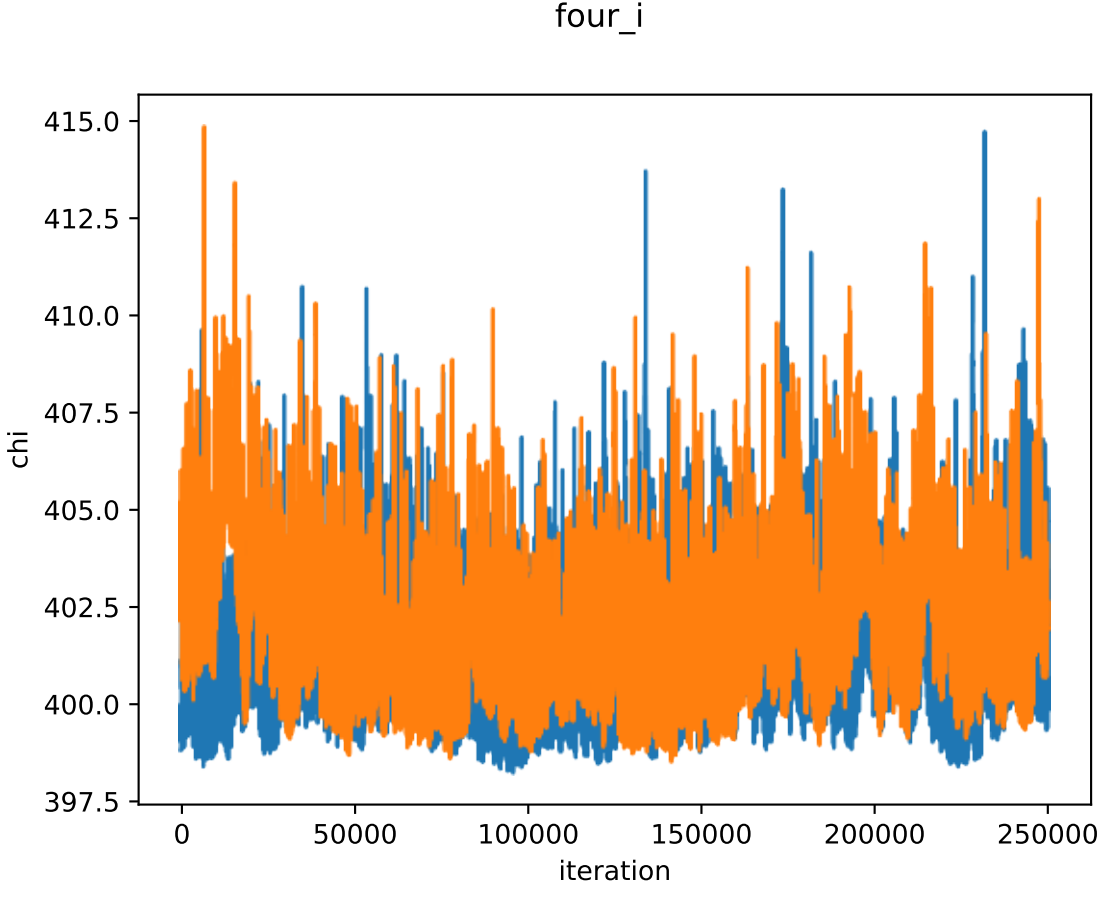
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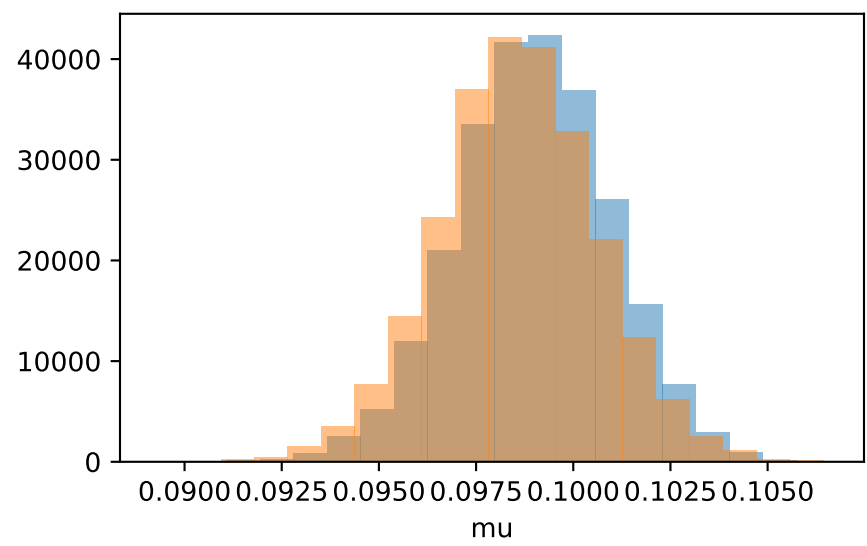
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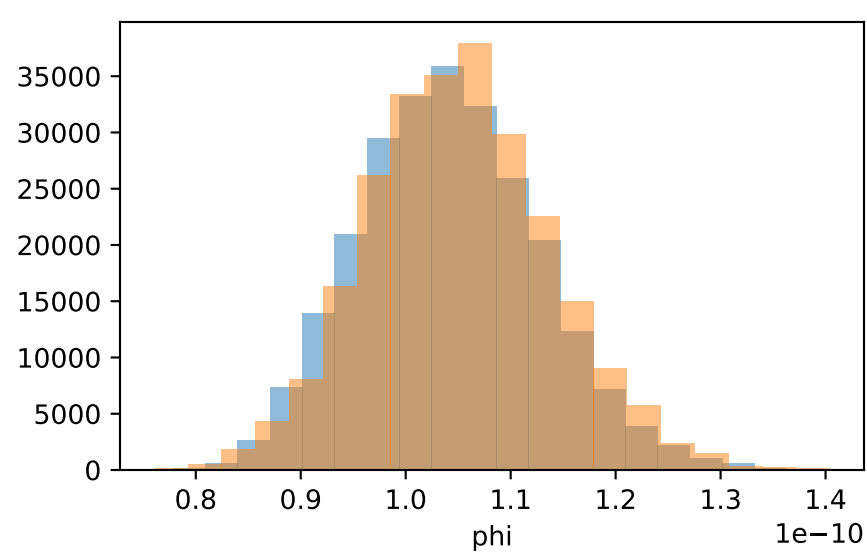
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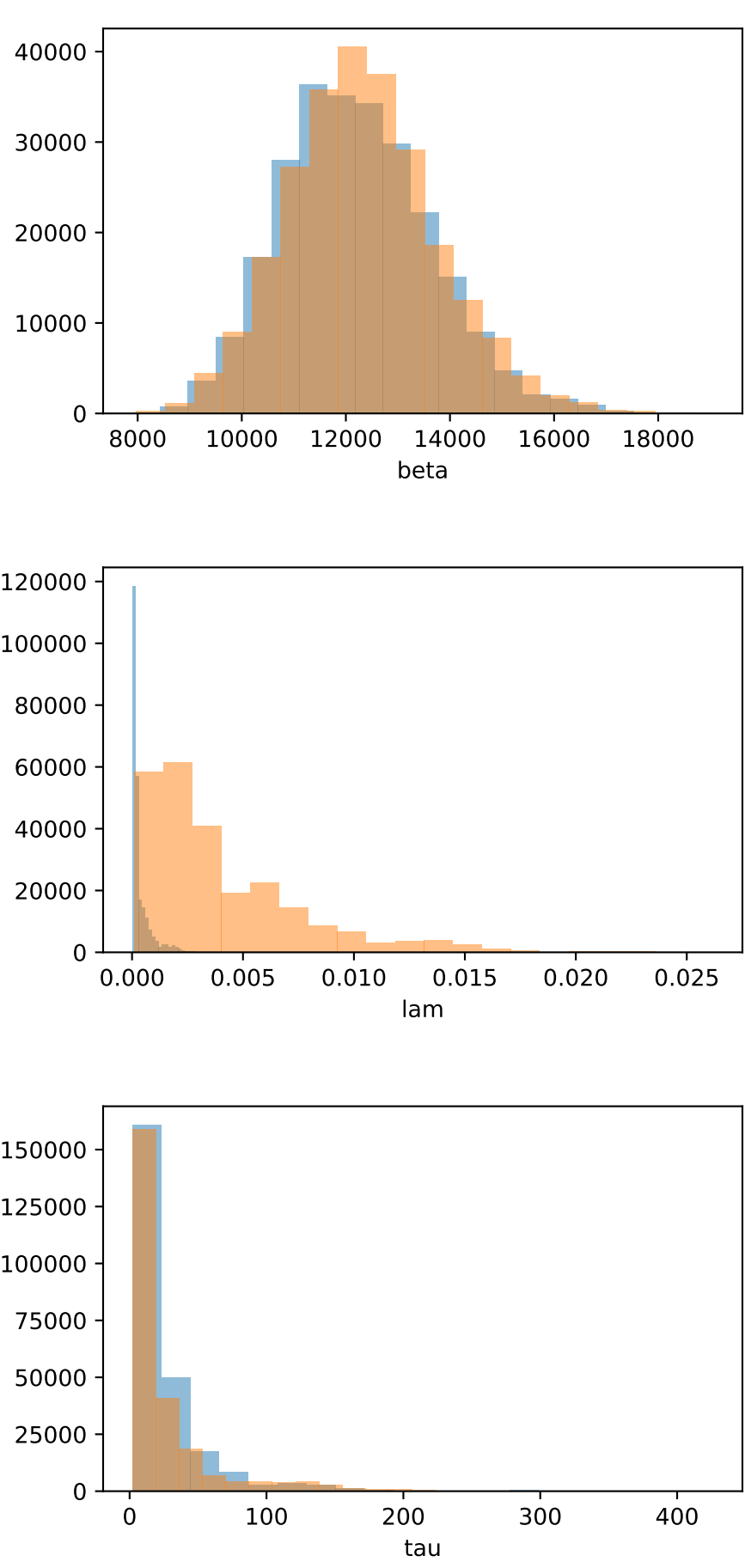
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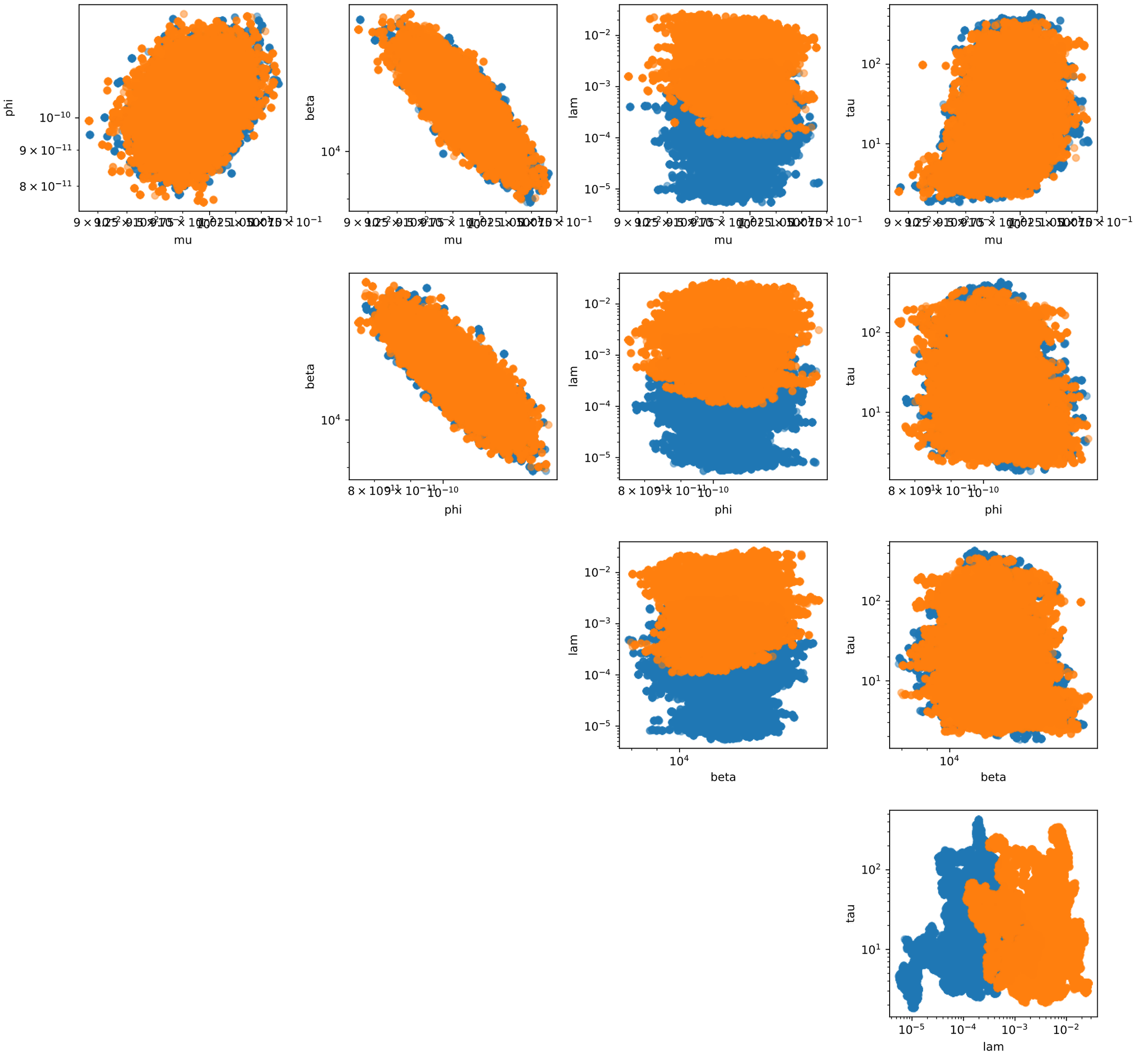

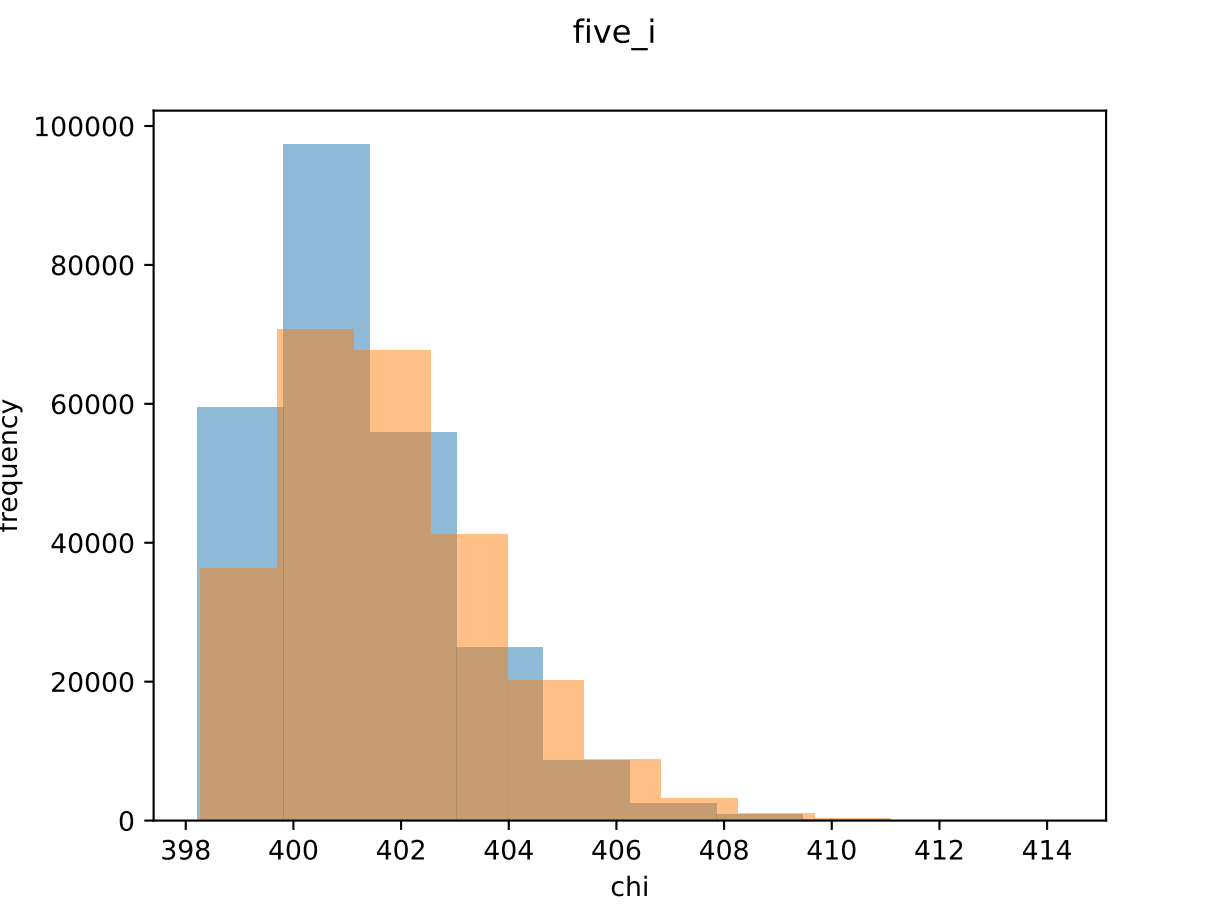
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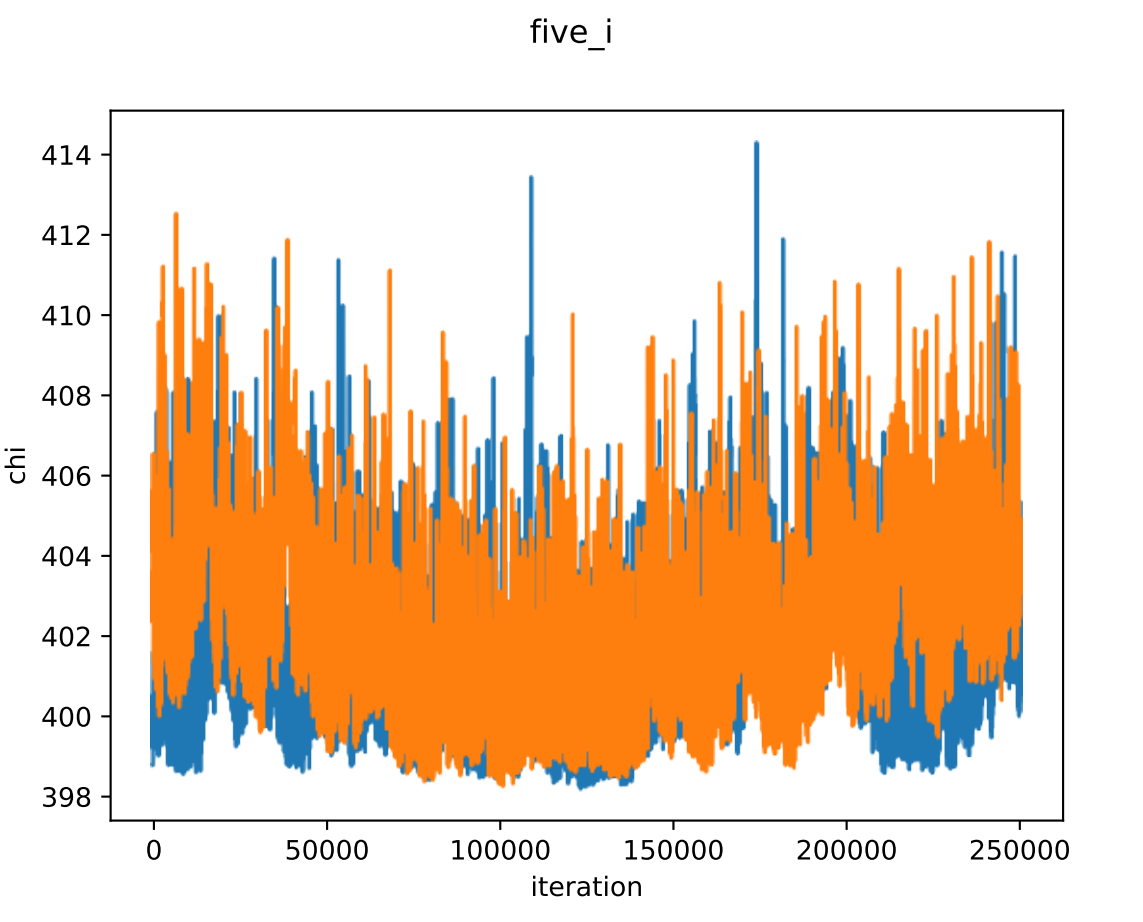
five_i
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