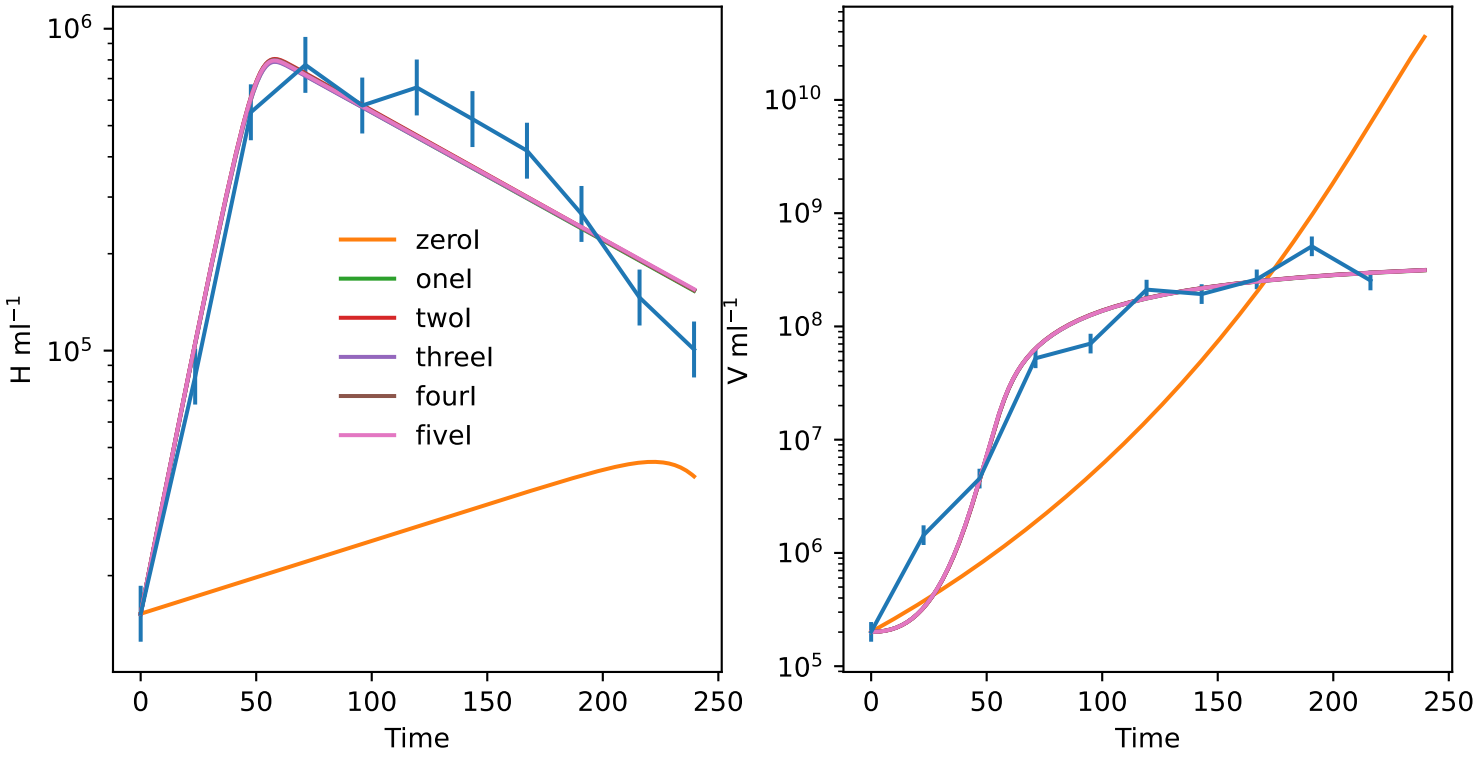
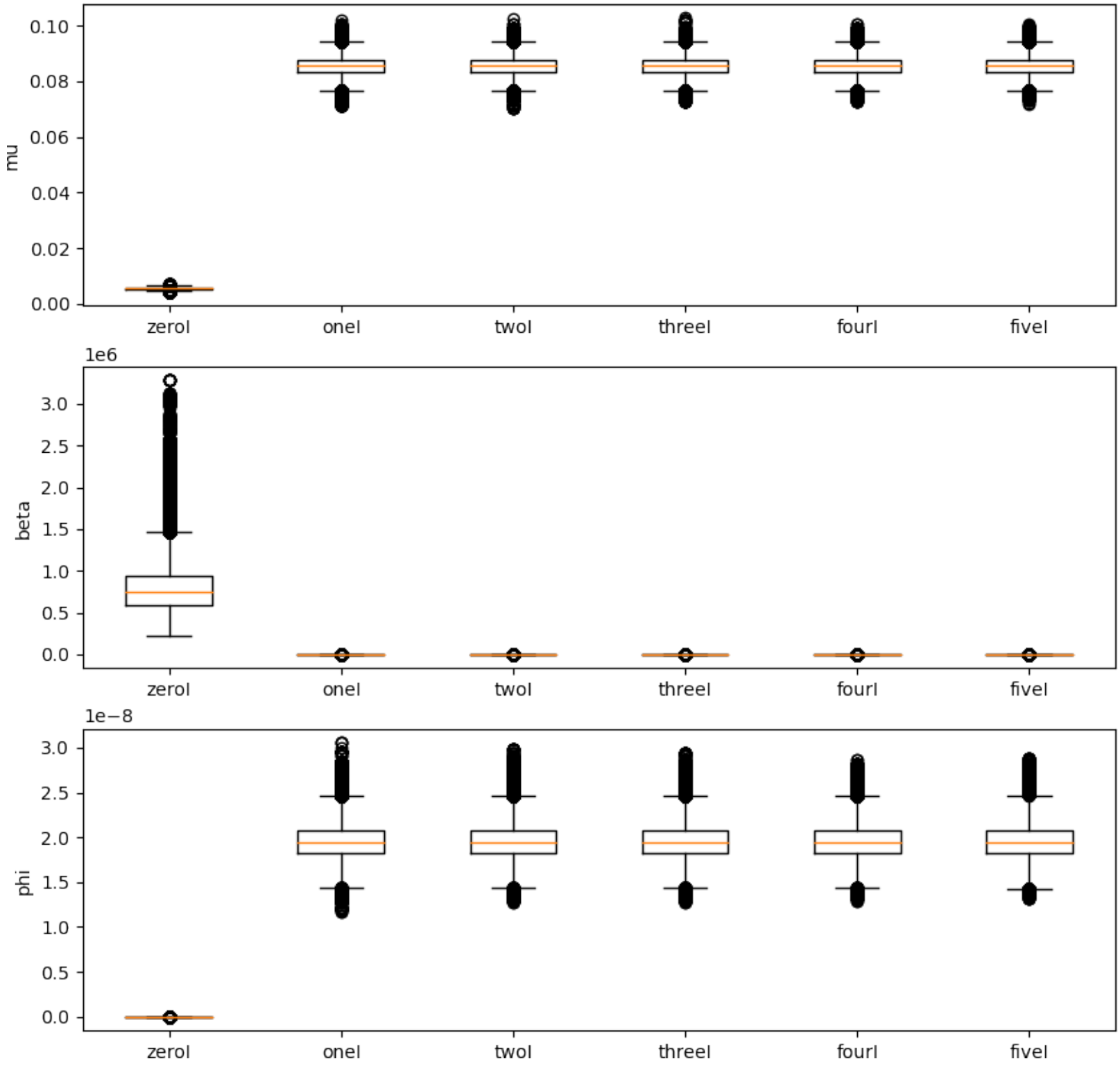
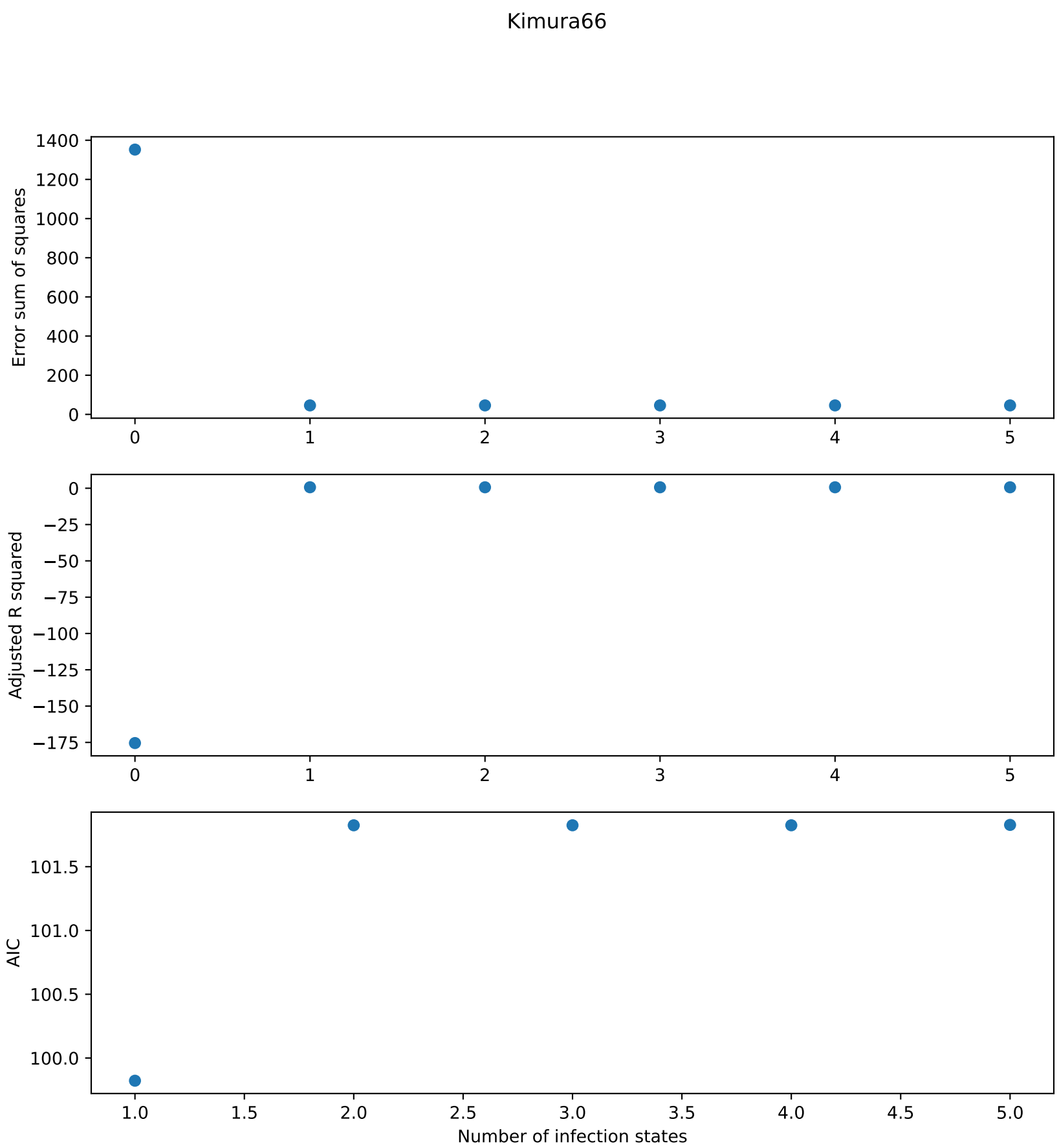
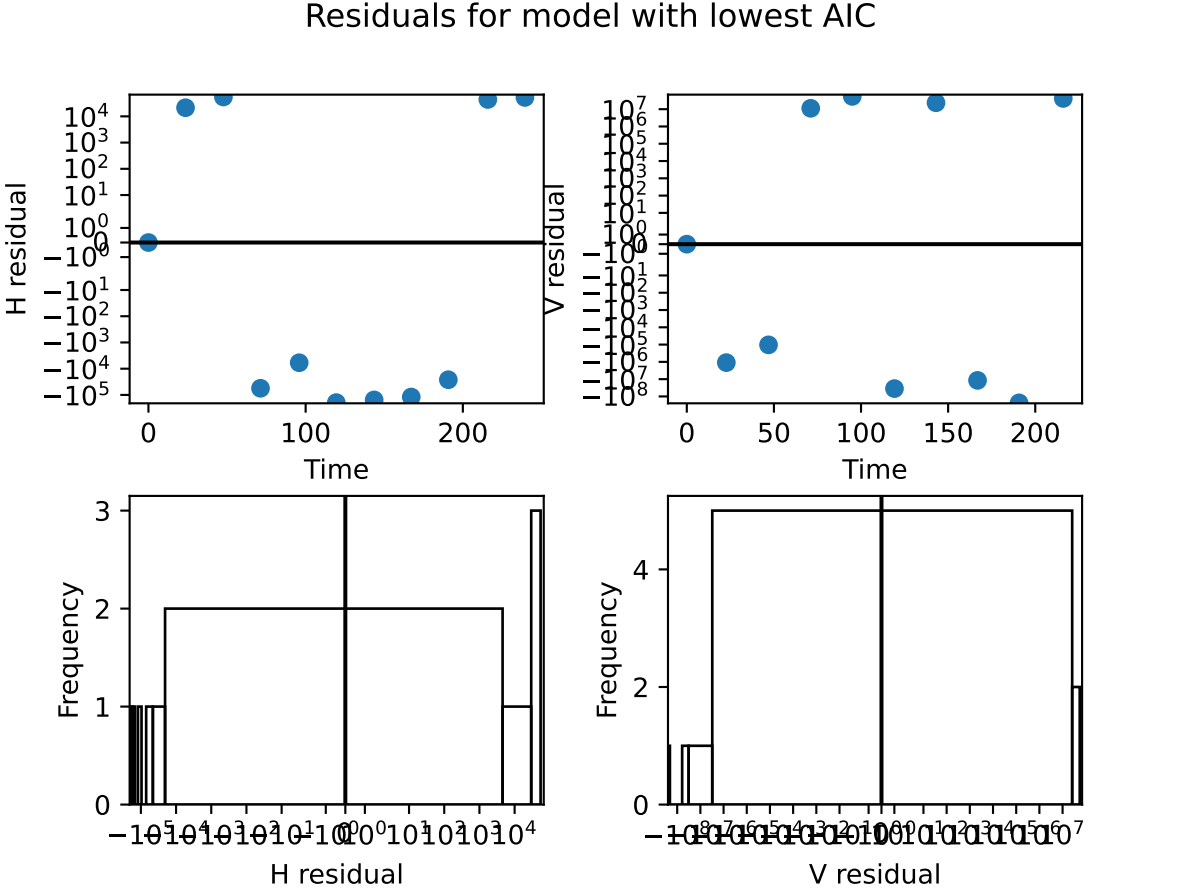

Kimura66
H ml^{-1}
V ml^{-1}
Time
Time
zerol
onel
twol
threel
fourl
fivel

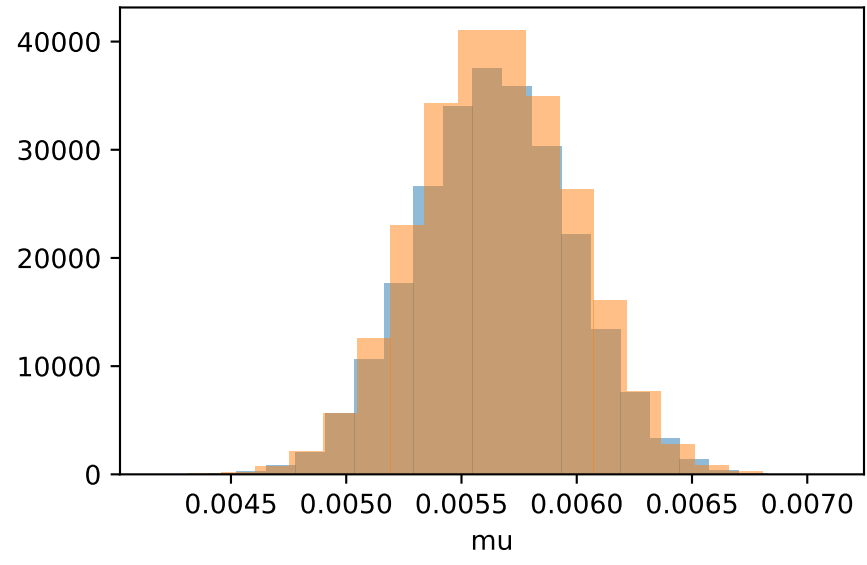
Kimura66


mu
0.10
0.08
0.06
0.04
0.02
0.00
zeroI
oneI
twoI
threeI
fourI
fiveI
beta
1e6
3.0
2.5
2.0
1.5
1.0
0.5
0.0
zeroI
oneI
twoI
threeI
fourI
fiveI
phi
1e−8
3.0
2.5
2.0
1.5
1.0
0.5
0.0
zeroI
oneI
twoI
threeI
fourI
fiveI


Kimura66
Error sum of squares
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
Adjusted R squared
0
−25
−50
−75
−100
−125
−150
−175
0
1
2
3
4
5
AIC
101.5
101.0
100.5
100.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Number of infection states


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

zero_i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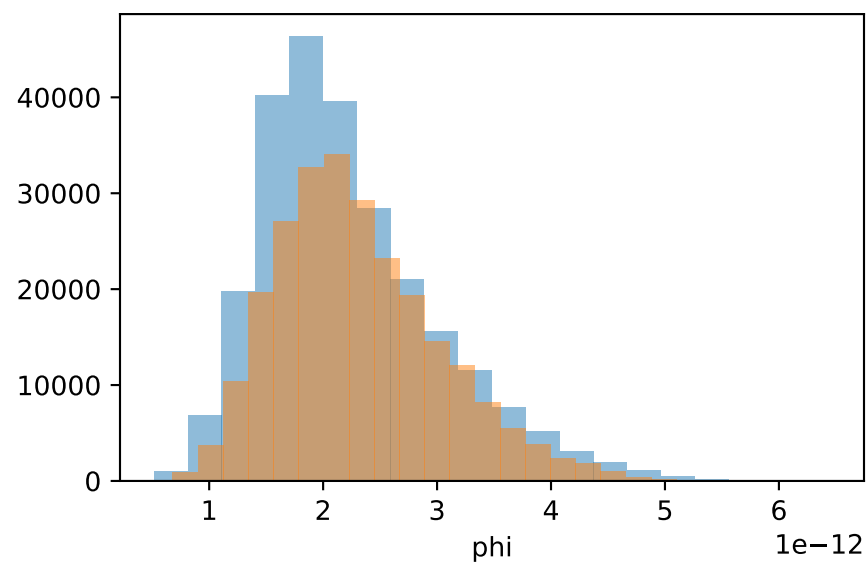
30000
20000
10000
0
0.0045
0.0050
0.0055
0.0060
0.0065
0.0070
mu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30000
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10000
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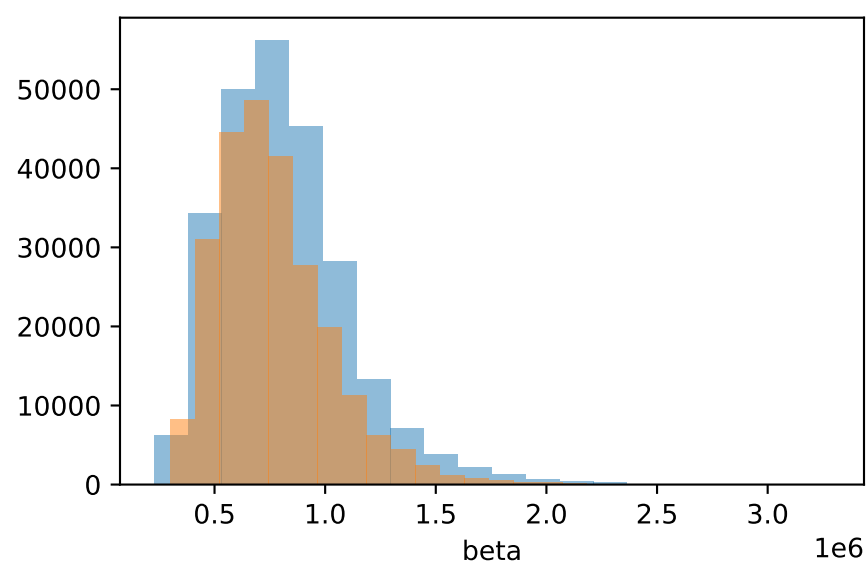
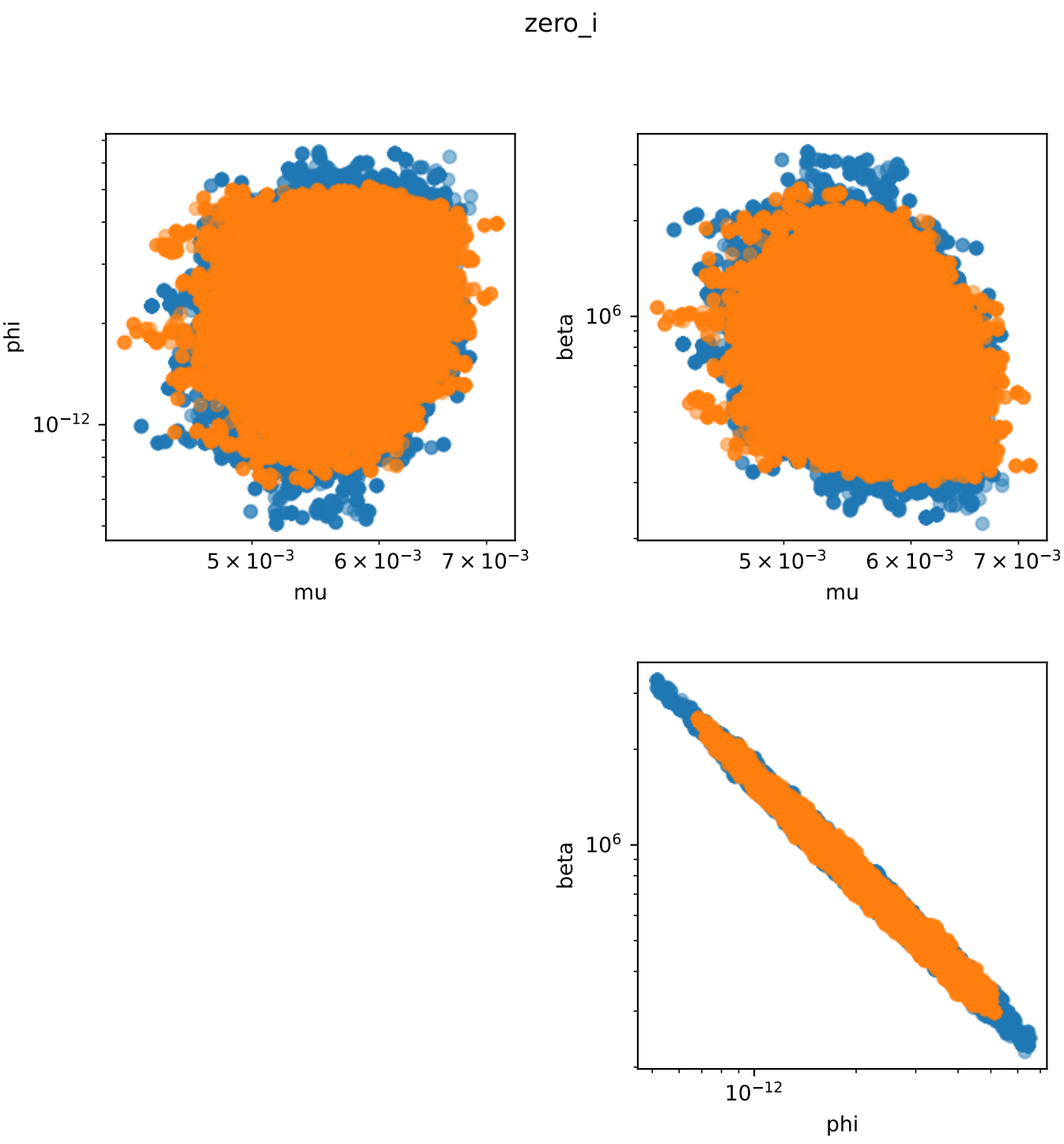
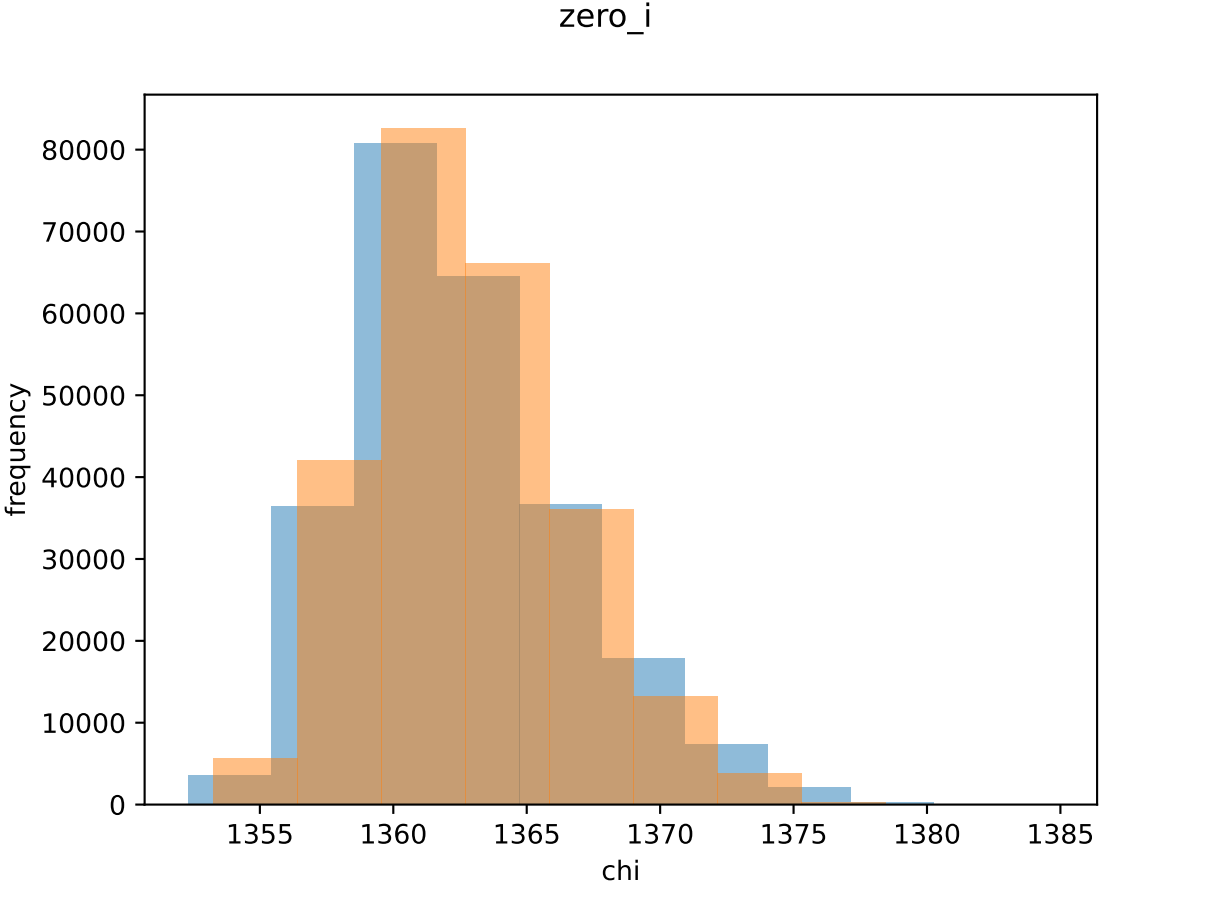
1
2
3
4
5
6
phi
1e−12


50000
40000
30000
20000
10000
0
0.5
1.0
1.5
2.0
2.5
3.0
beta
1e6


zero_i
phi
10^{-12}
5×10^{-3}
6×10^{-3}
7×10^{-3}
mu
beta
10^{6}
5×10^{-3}
6×10^{-3}
7×10^{-3}
mu
beta
10^{6}
10^{-12}
phi


zero_i
frequency
chi
0
10000
20000
30000
40000
50000
60000
70000
80000
1355
1360
1365
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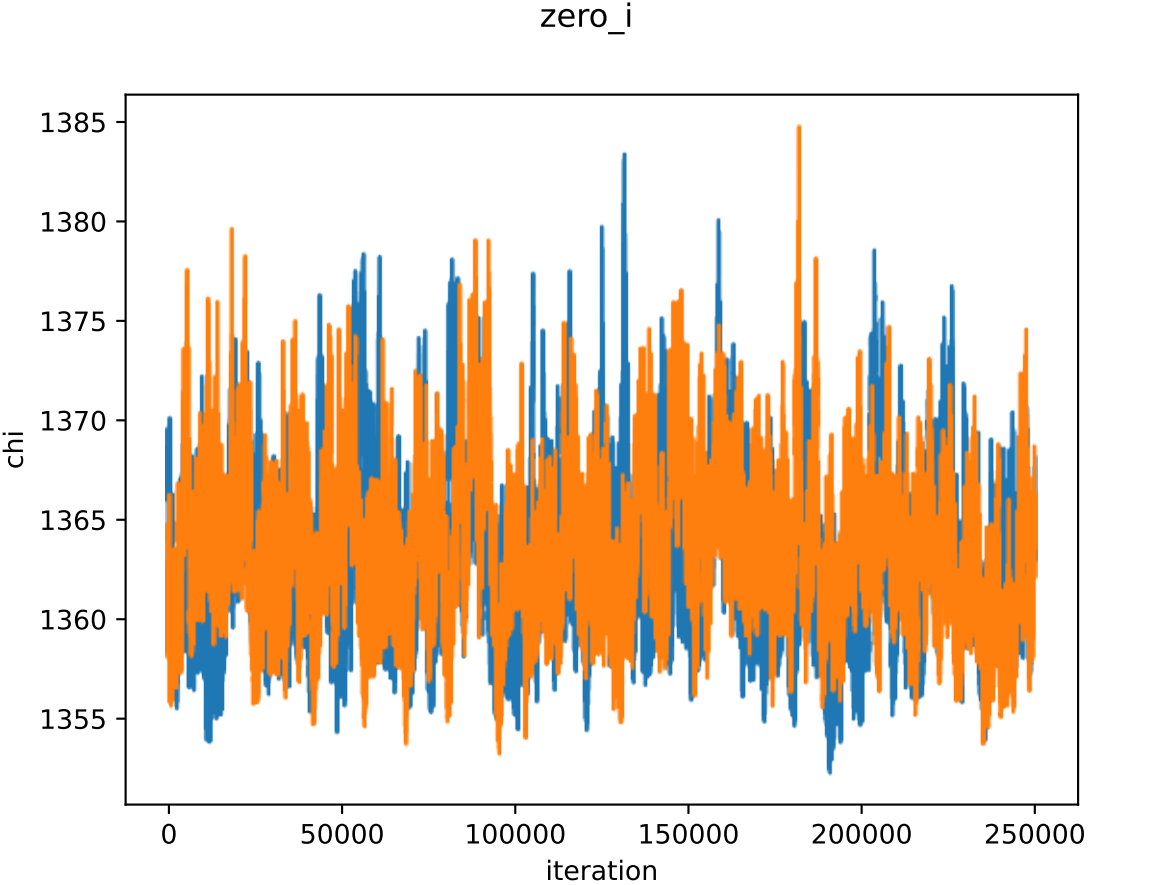
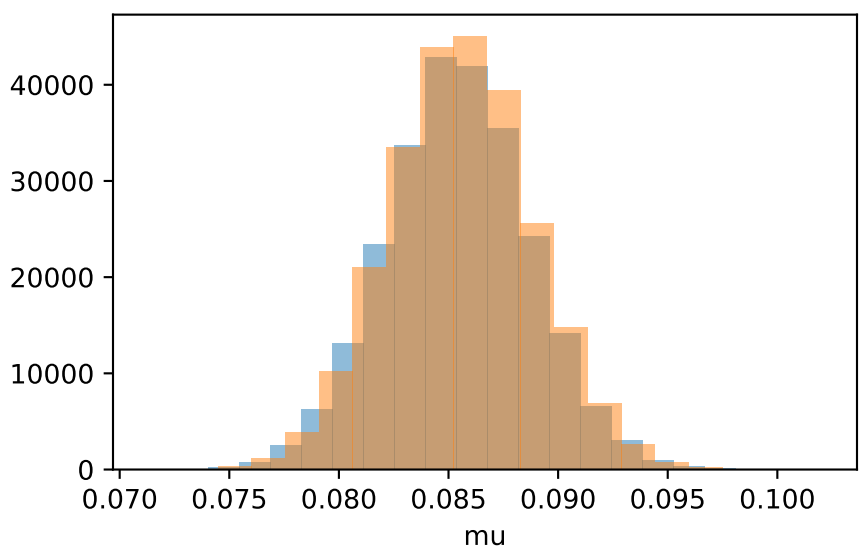
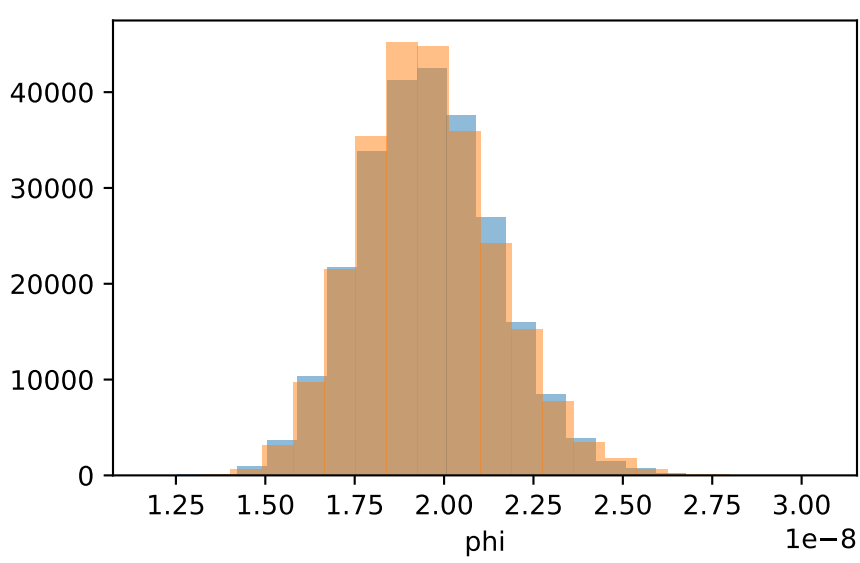
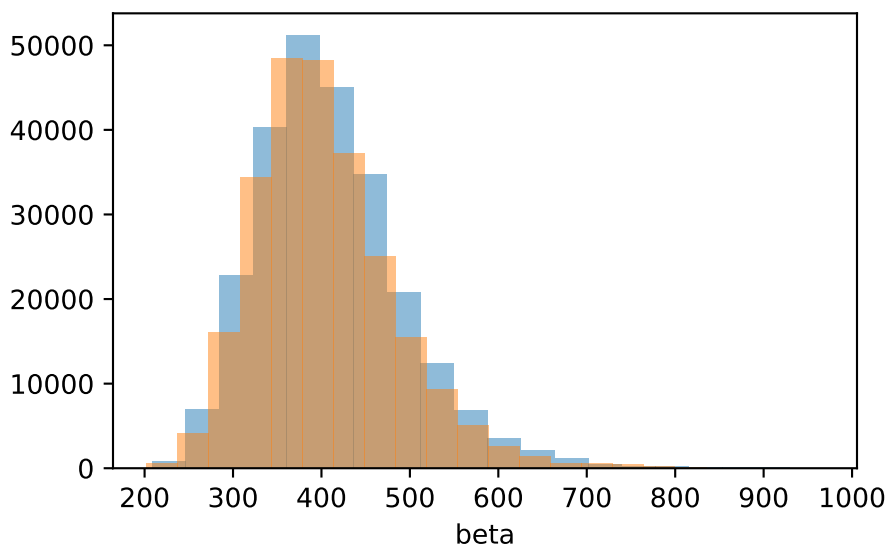
1375
1380
1385


zero_i
chi
iteration
1385
1380
1375
1370
1365
1360
1355
0
50000
100000
150000
200000
250000

one_i


40000
30000
20000
10000
0
0.070
0.075
0.080
0.085
0.090
0.095
0.100
mu


40000
30000
20000
10000
0
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
phi
1e−8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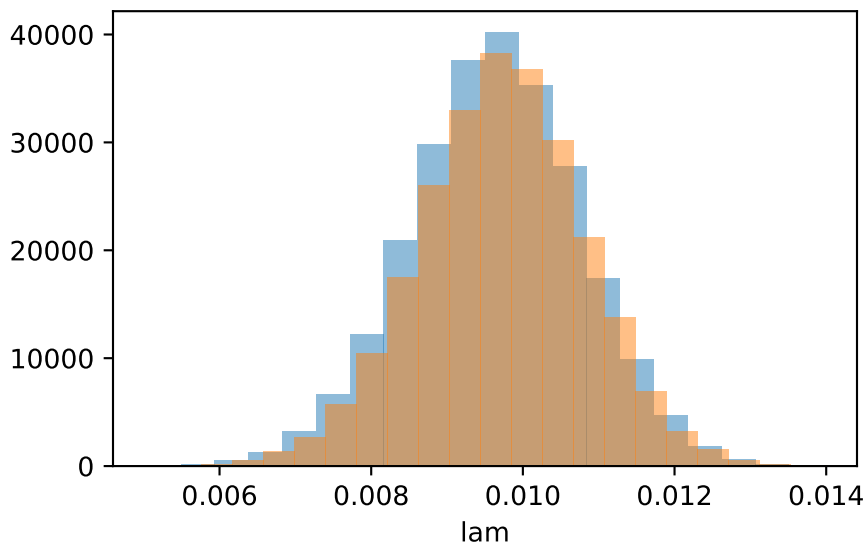
40000
30000
20000
10000
0
200
300
400
500
600
700
800
900
1000
beta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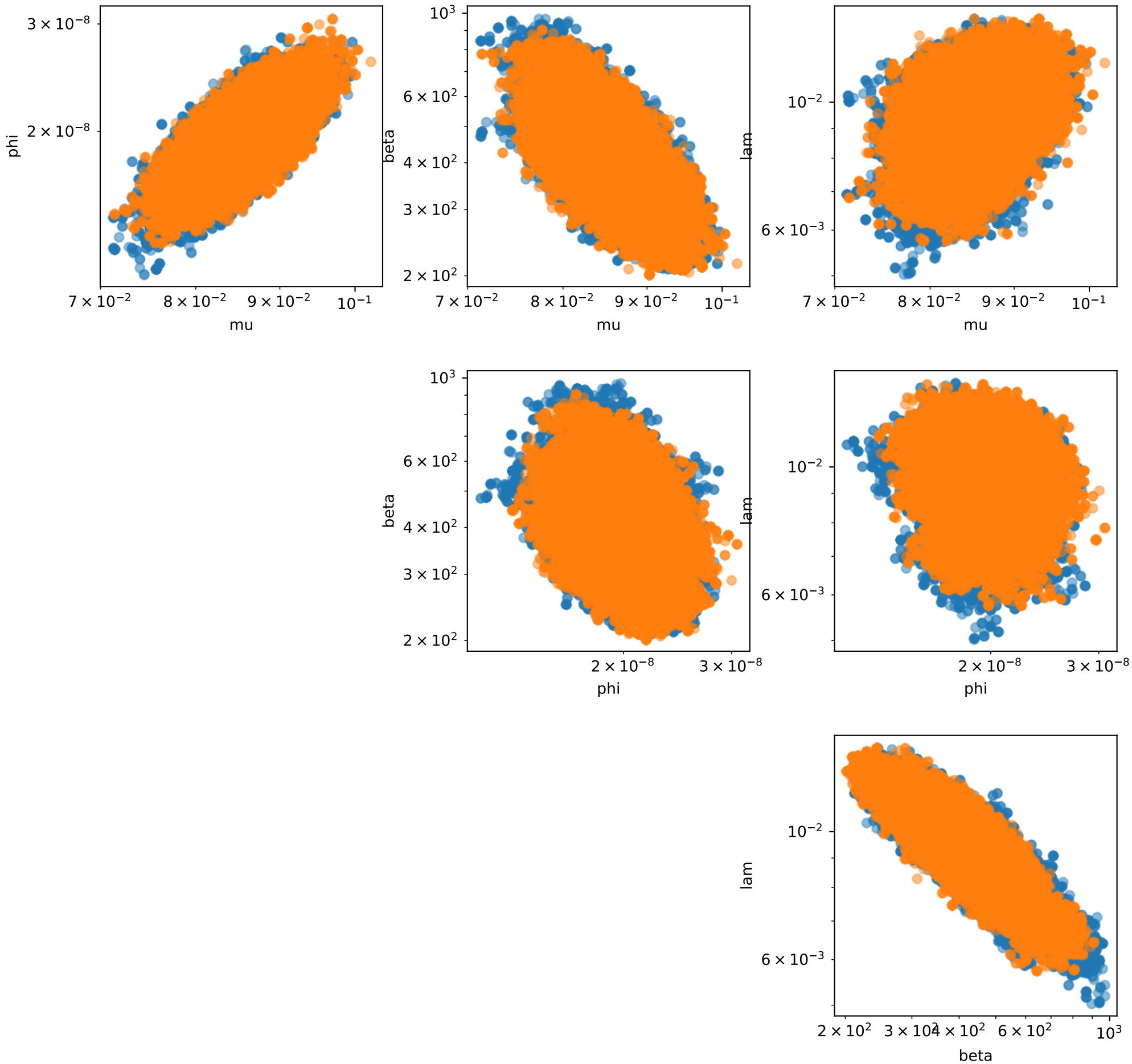
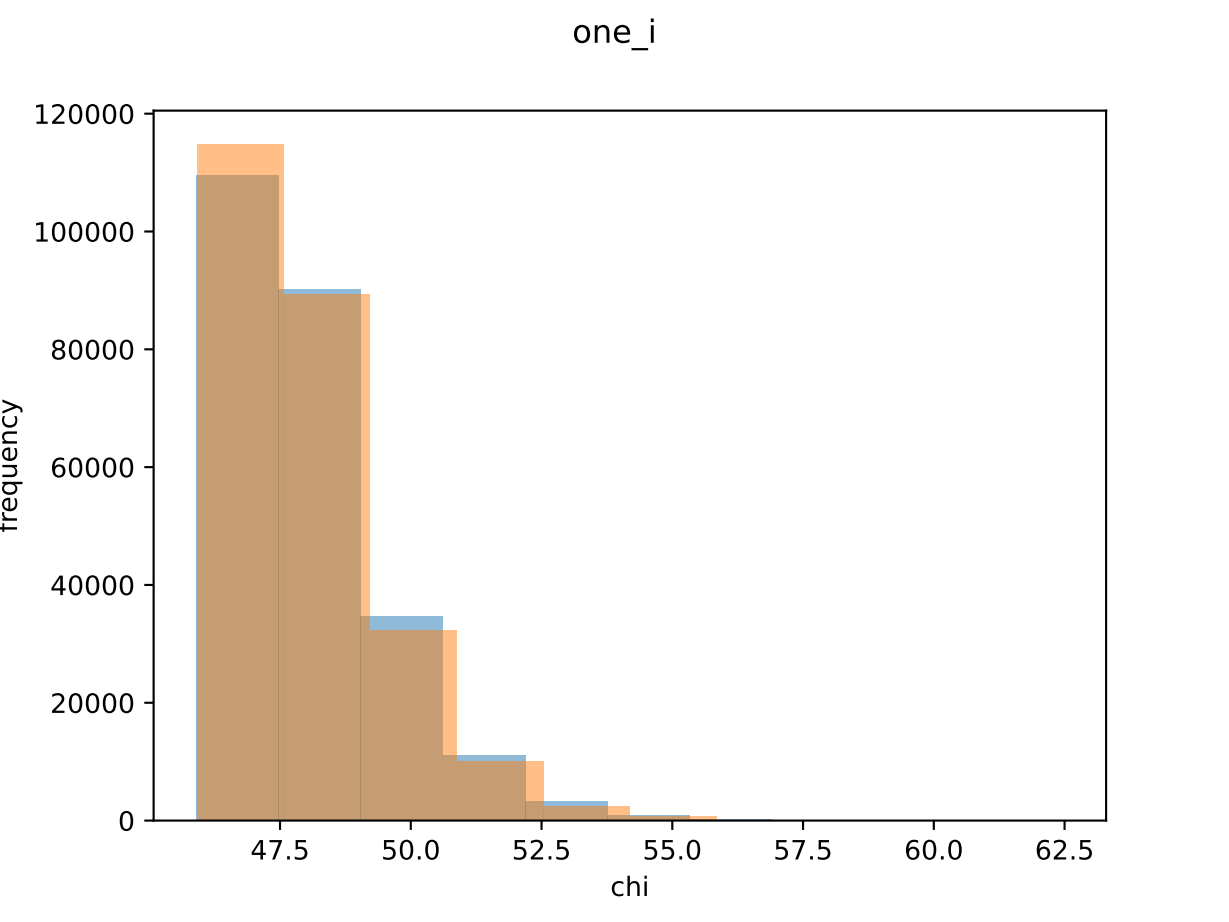
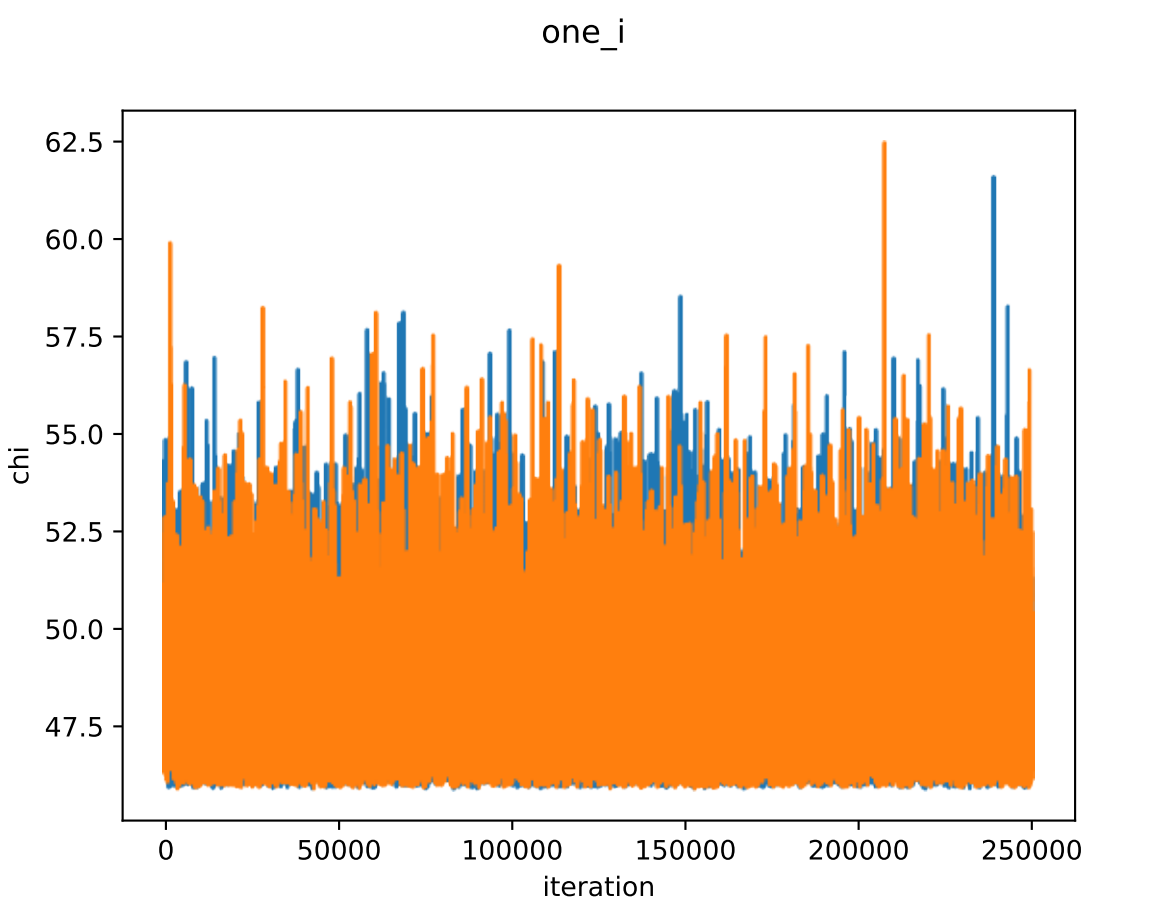
30000
20000
10000
0
0.006
0.008
0.010
0.012
0.014
lam

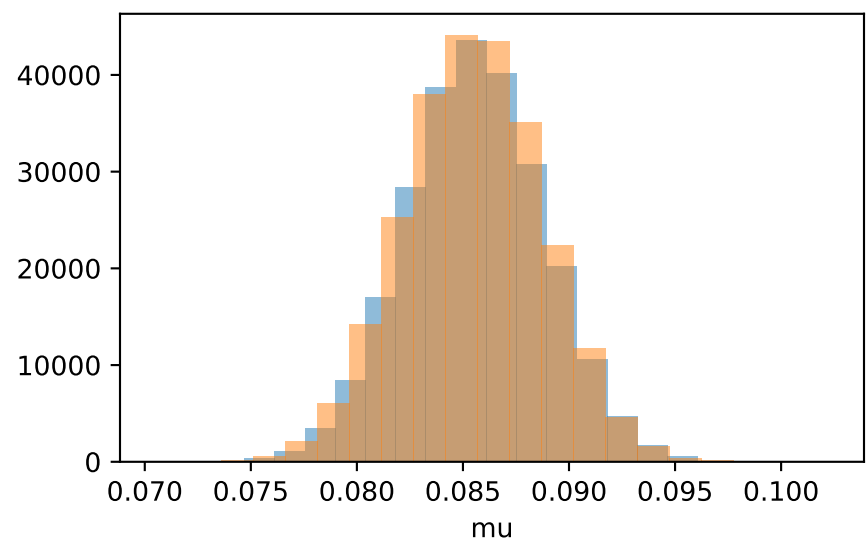
one_i




one_i
120000
100000
80000
60000
40000
20000
0
frequency
47.5
50.0
52.5
55.0
57.5
60.0
62.5
chi


one_i
62.5
60.0
57.5
55.0
52.5
50.0
47.5
chi
0
50000
100000
150000
200000
250000
iteration

two_i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20000
10000
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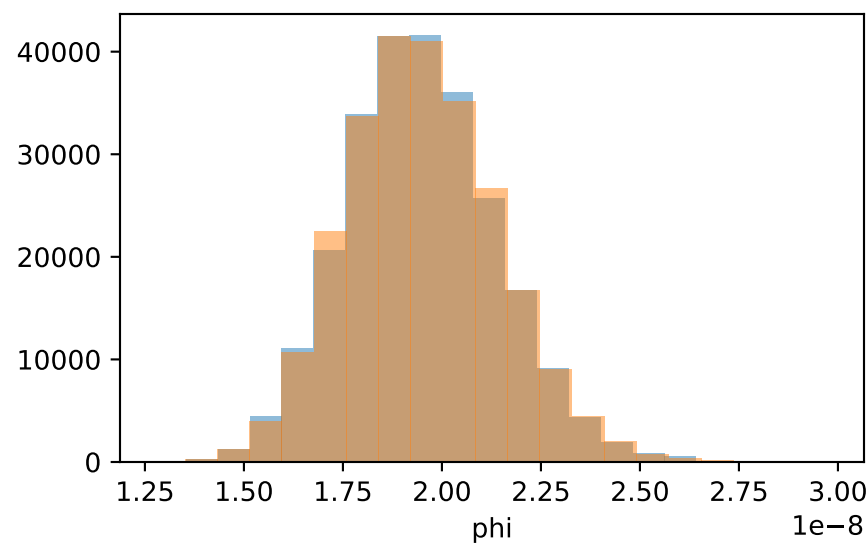
0.070
0.075
0.080
0.085
0.090
0.095
0.100
mu


40000
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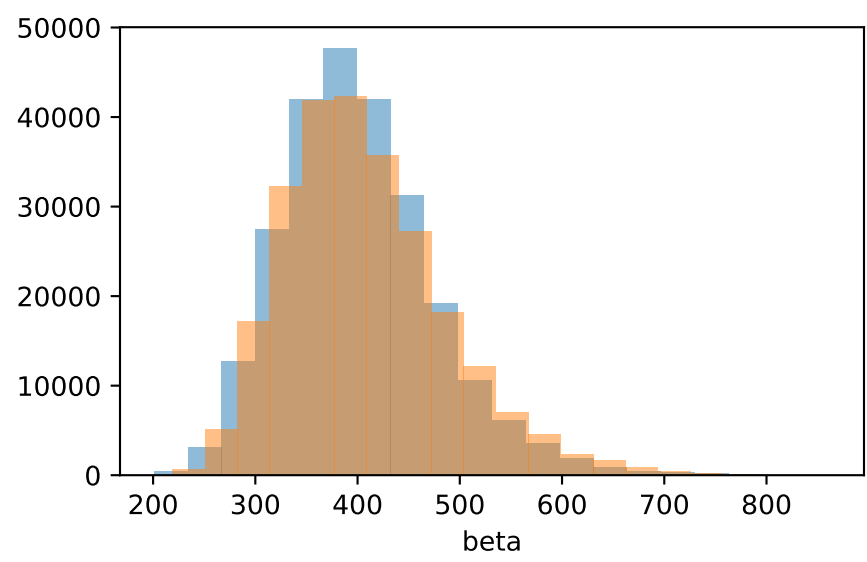
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
phi
1e−8


50000
40000
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20000
10000
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200
300
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600
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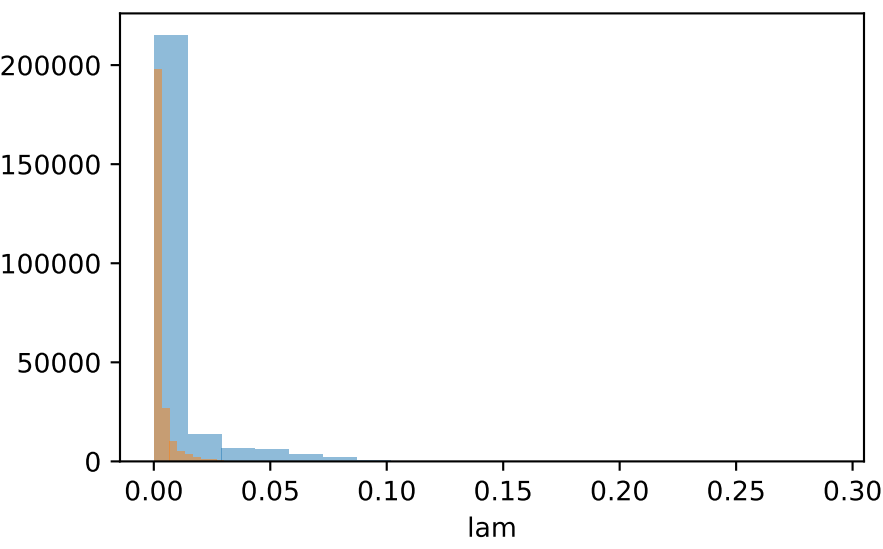
800
beta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0.00
0.05
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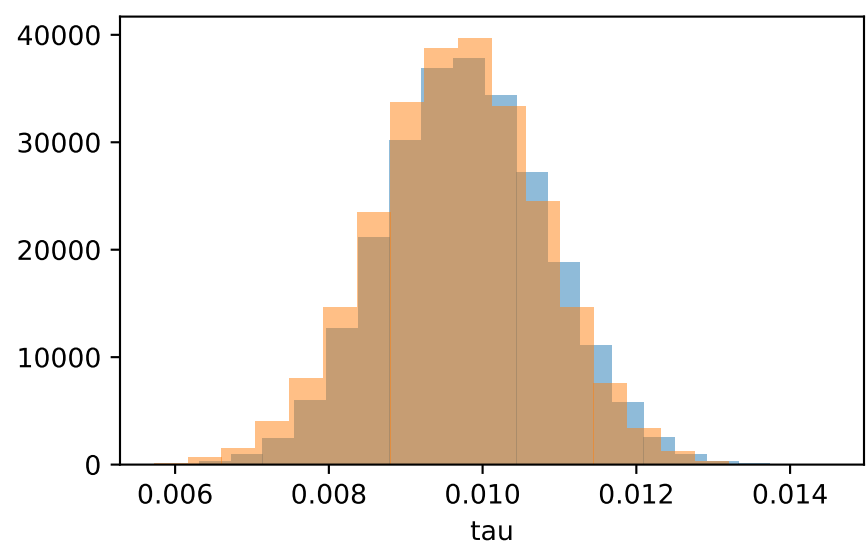
0.15
0.20
0.25
0.30
lam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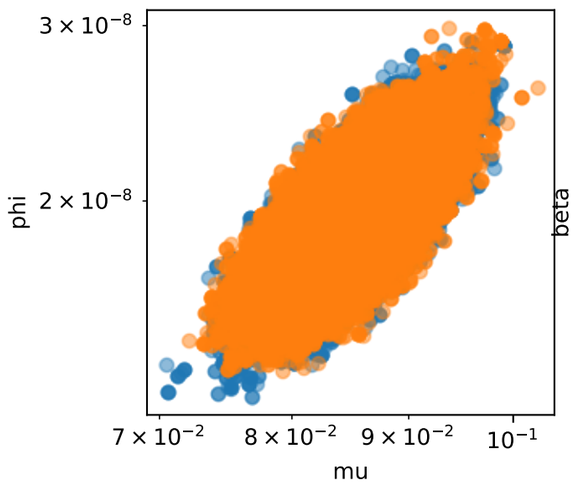
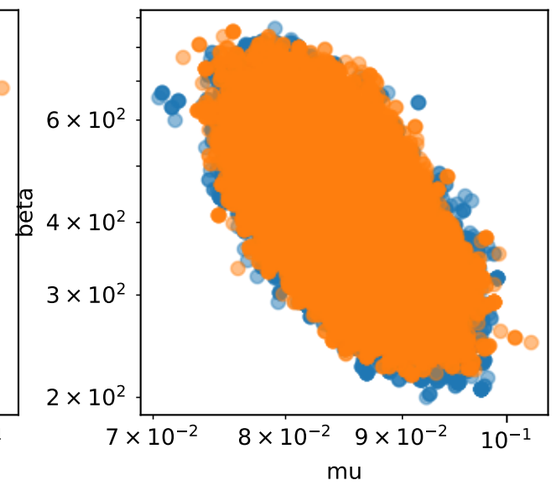
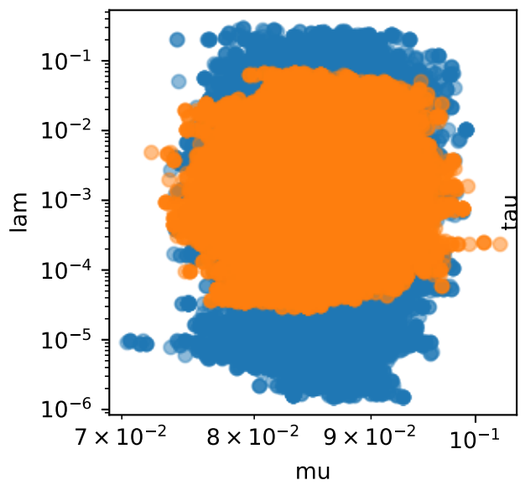
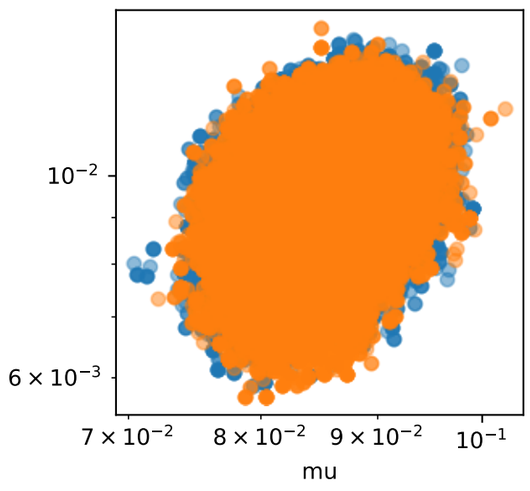
20000
10000
0
0.006
0.008
0.010
0.012
0.014
tau

two_i


phi
mu


beta
mu


lam
tau
mu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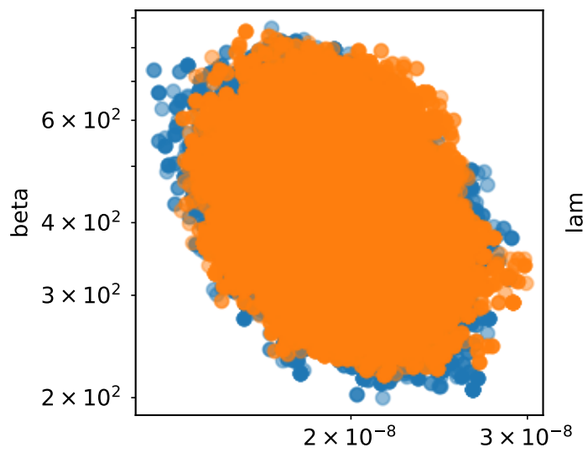
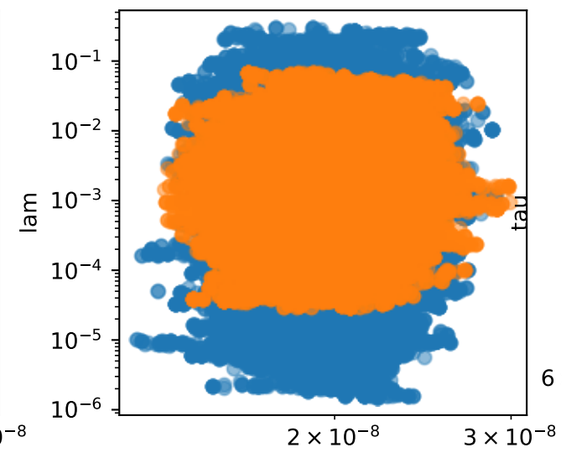
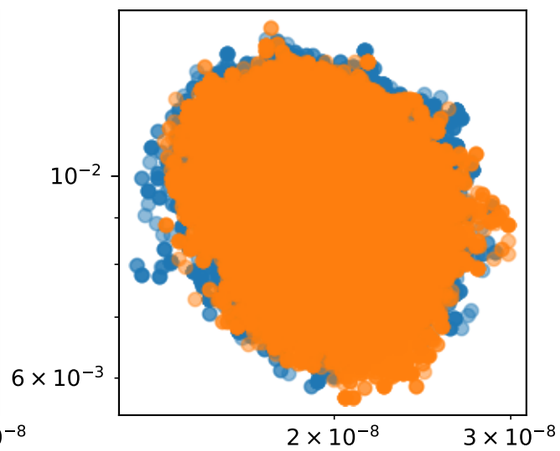
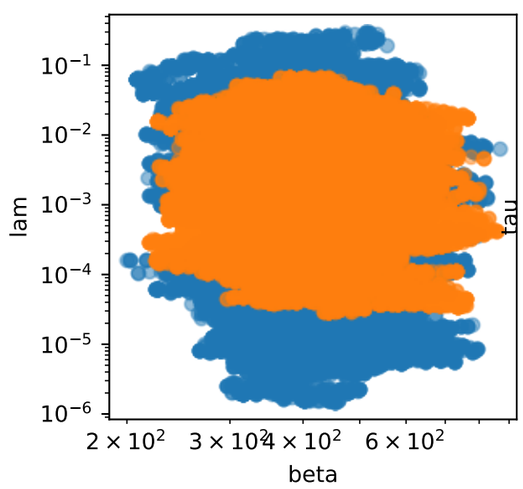
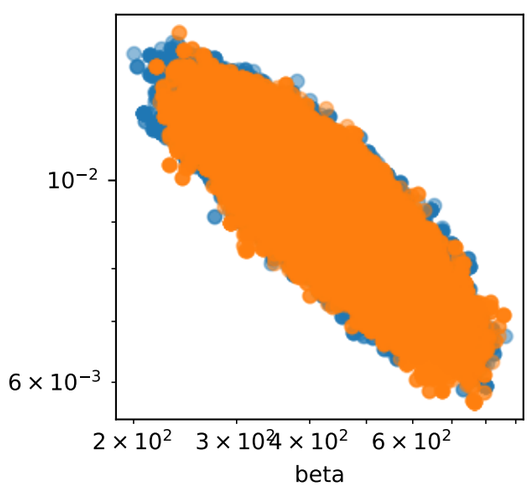
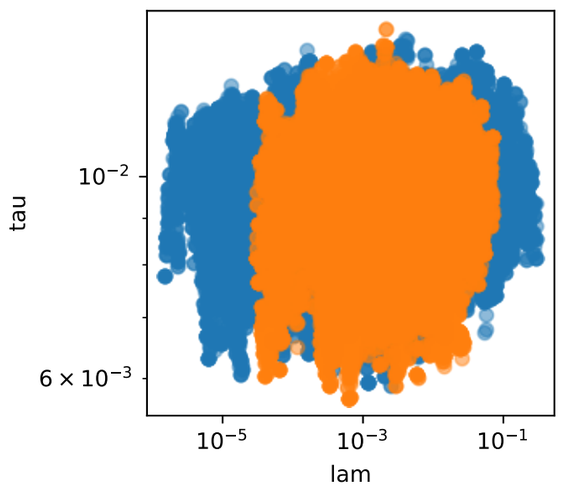

beta
phi

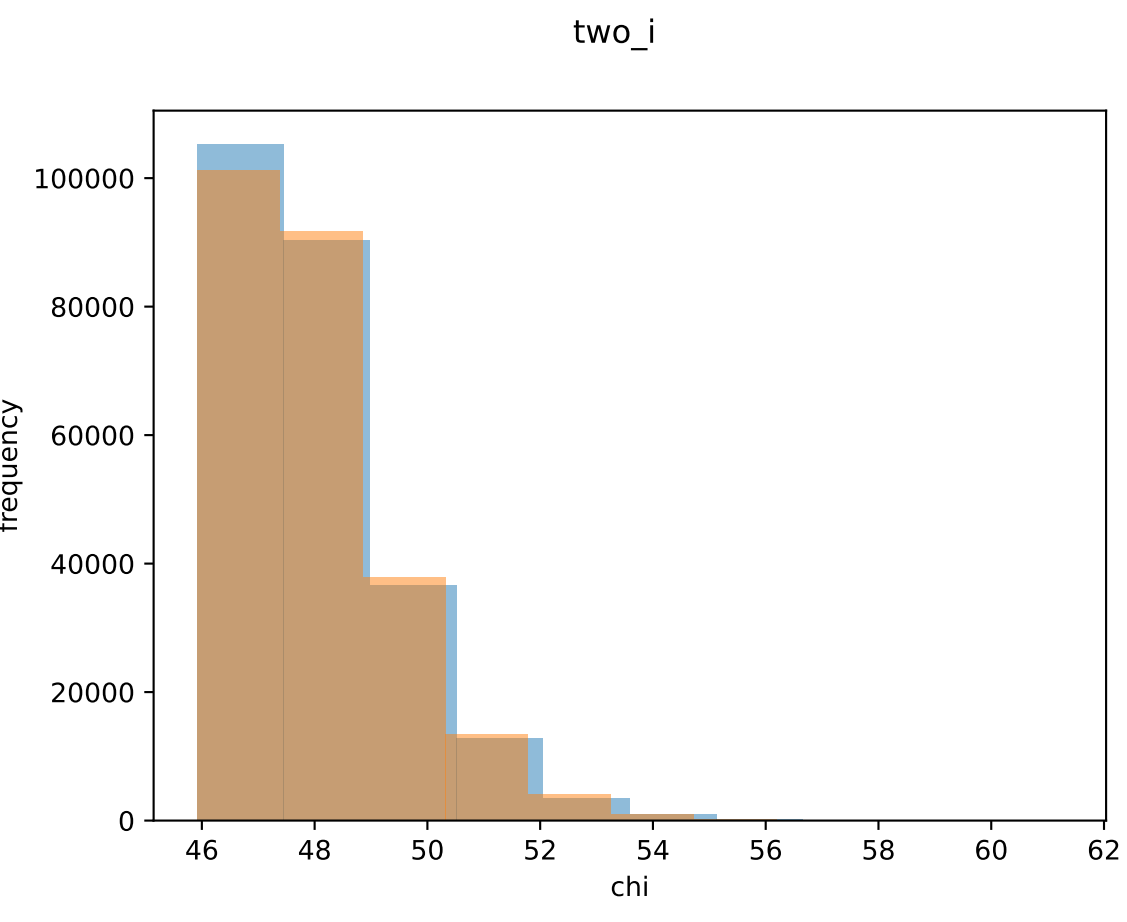

lam
tau
phi


phi


lam
tau
beta


beta


tau
lam


two_i
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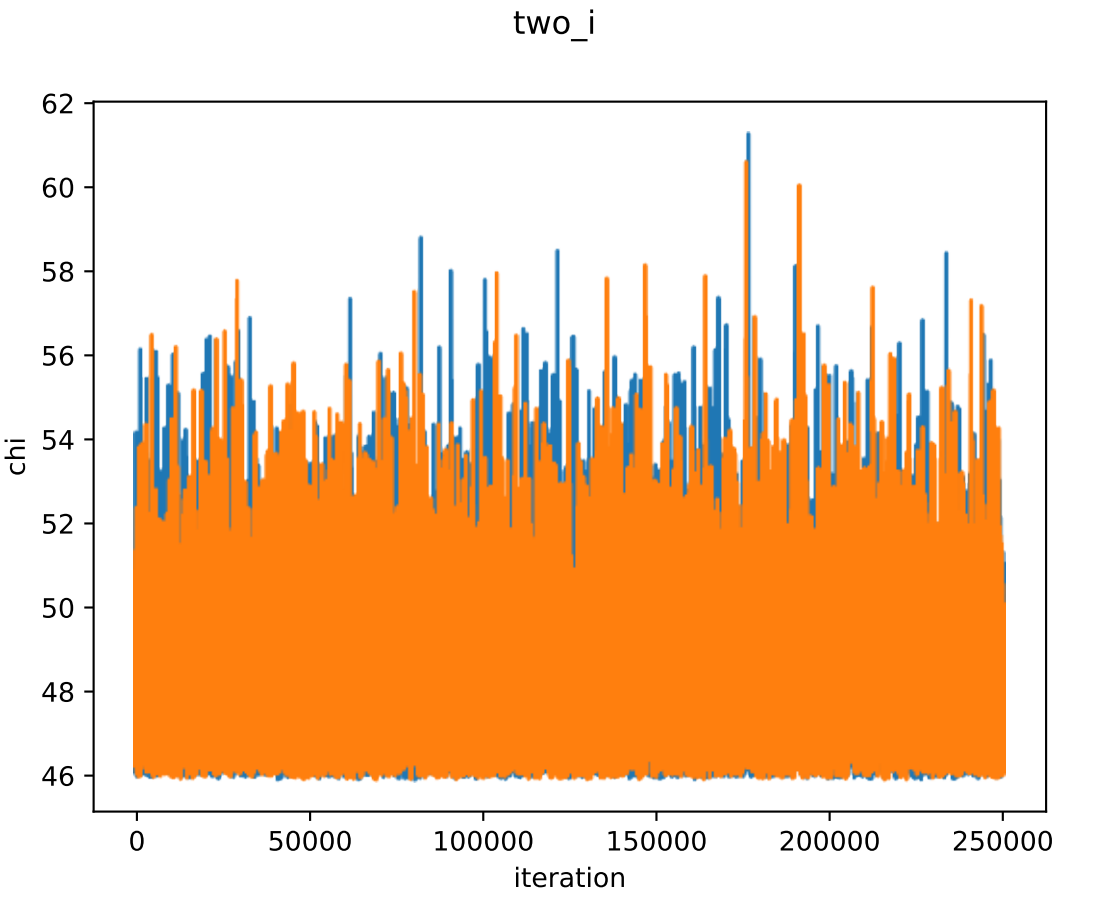
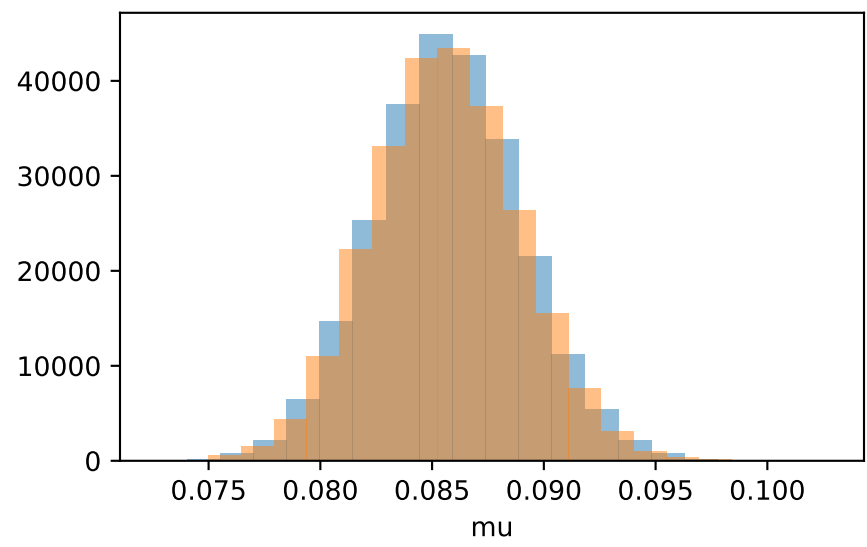
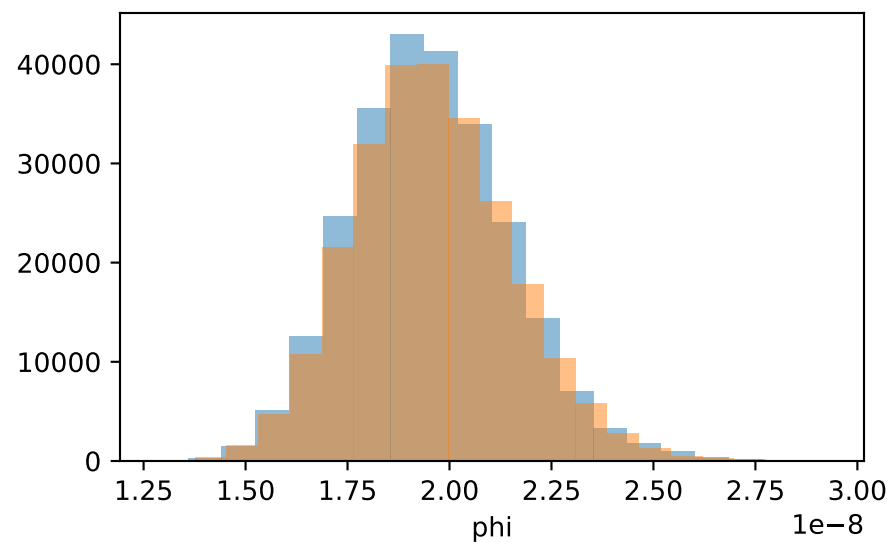
80000
60000
40000
20000
0
frequency
46
48
50
52
54
56
58
60
62
chi


two_i
chi
iteration
62
60
58
56
54
52
50
48
46
0
50000
100000
150000
200000
250000

three_i


40000
30000
20000
10000
0
0.075
0.080
0.085
0.090
0.095
0.100
mu


40000
30000
20000
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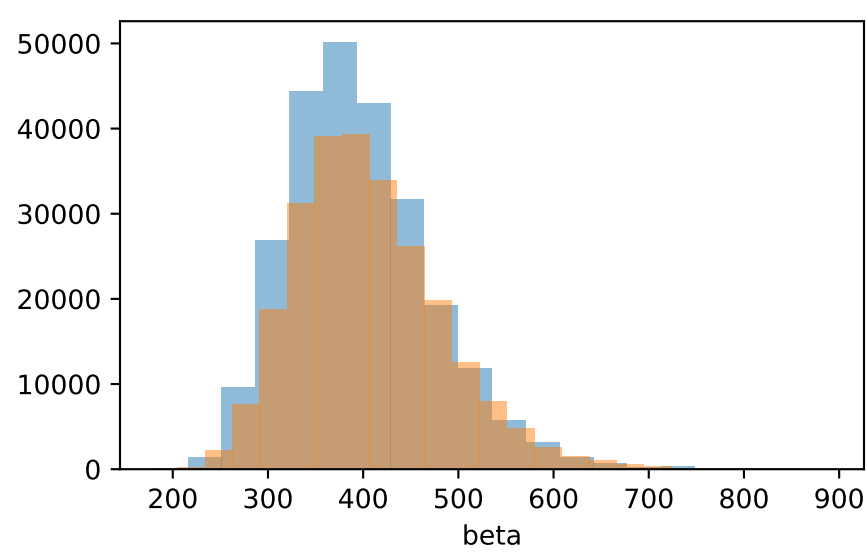
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
phi
1e−8


50000
40000
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20000
10000
0
200
300
400
500
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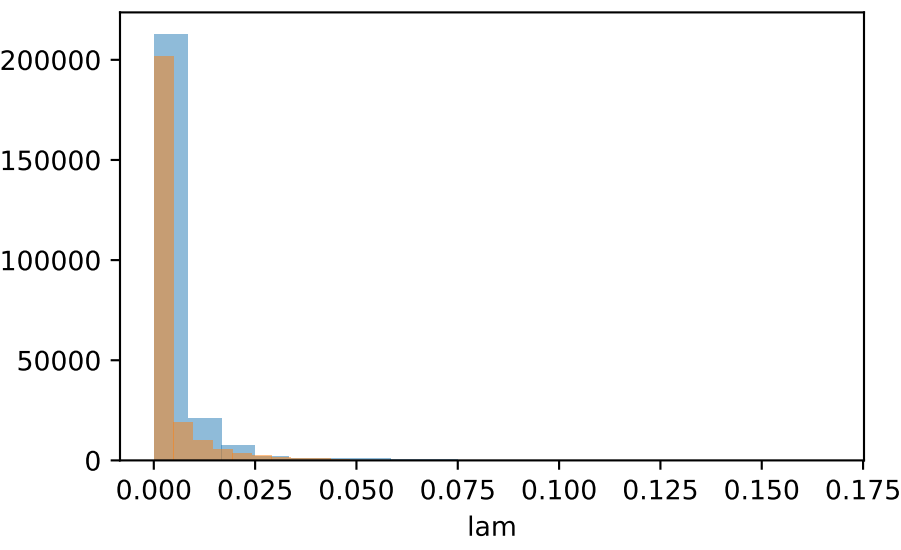
700
800
900
beta


200000
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100000
50000
0
0.000
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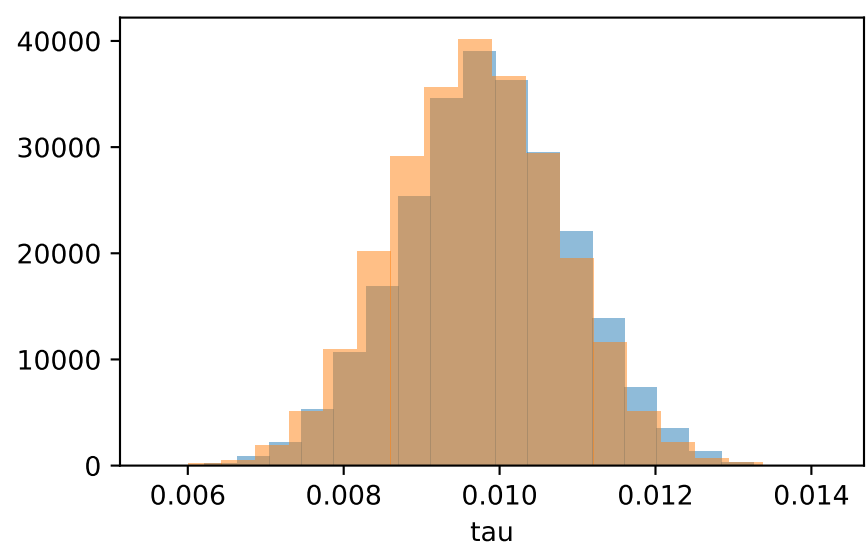
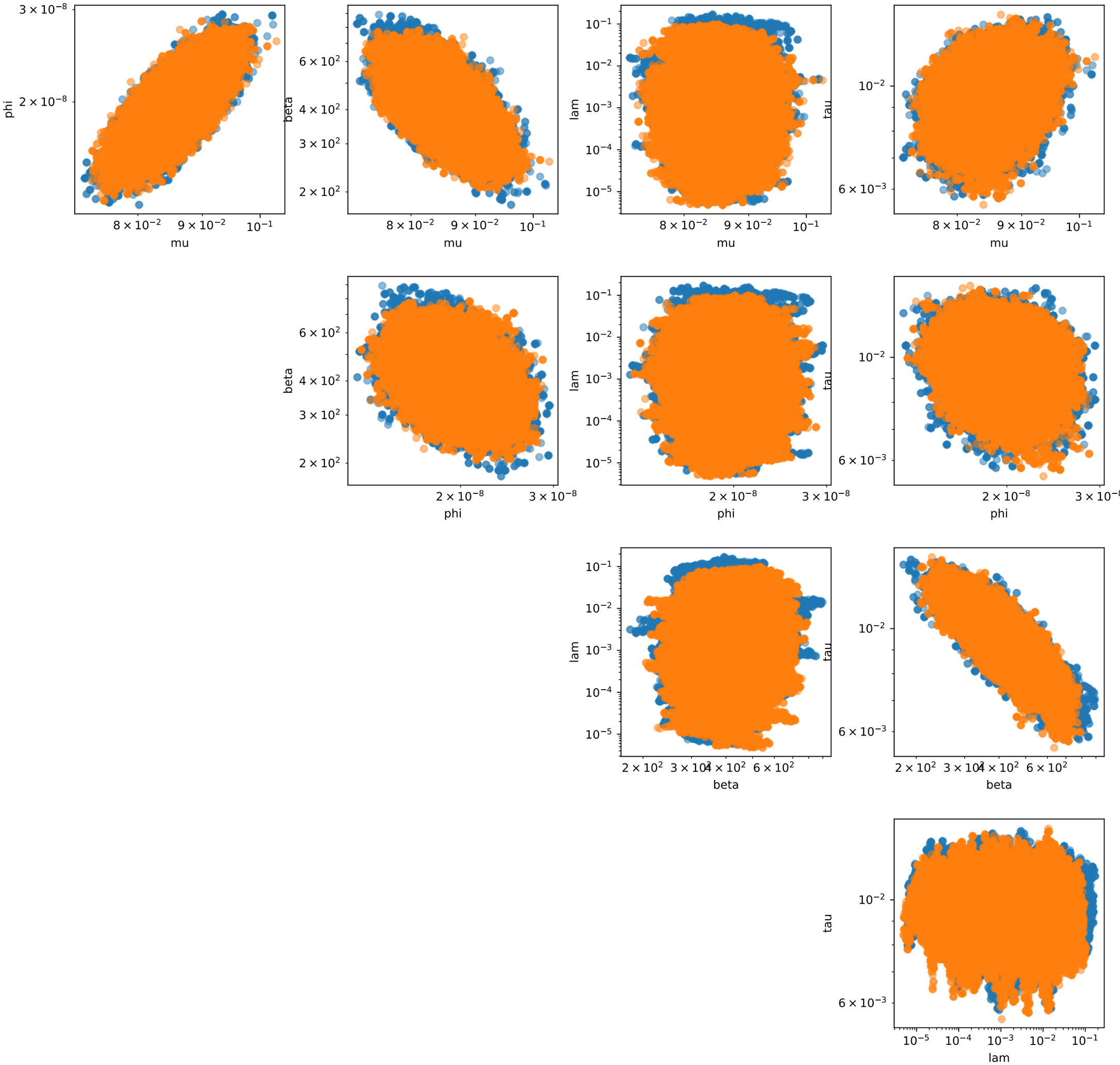
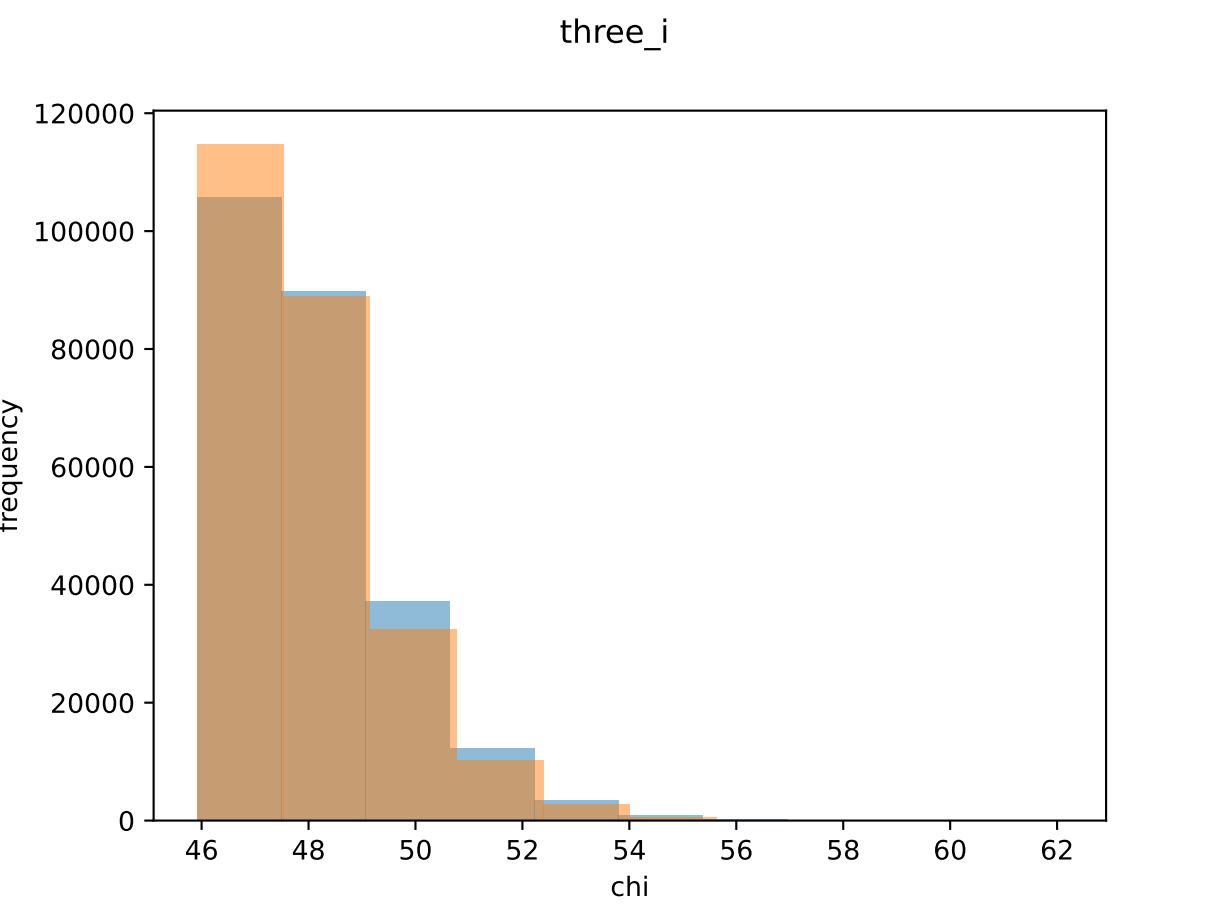
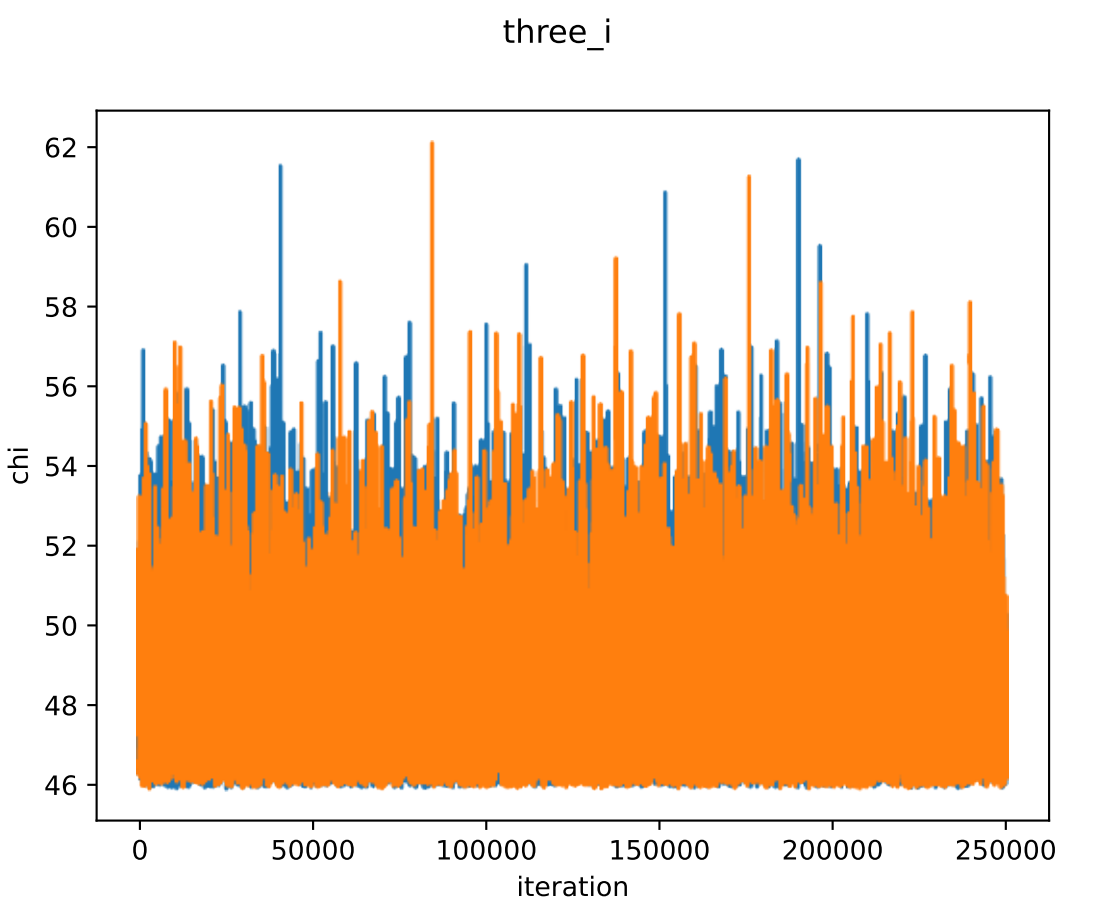
0.050
0.075
0.100
0.125
0.150
0.175
lam


40000
30000
20000
10000
0
0.006
0.008
0.010
0.012
0.014
tau

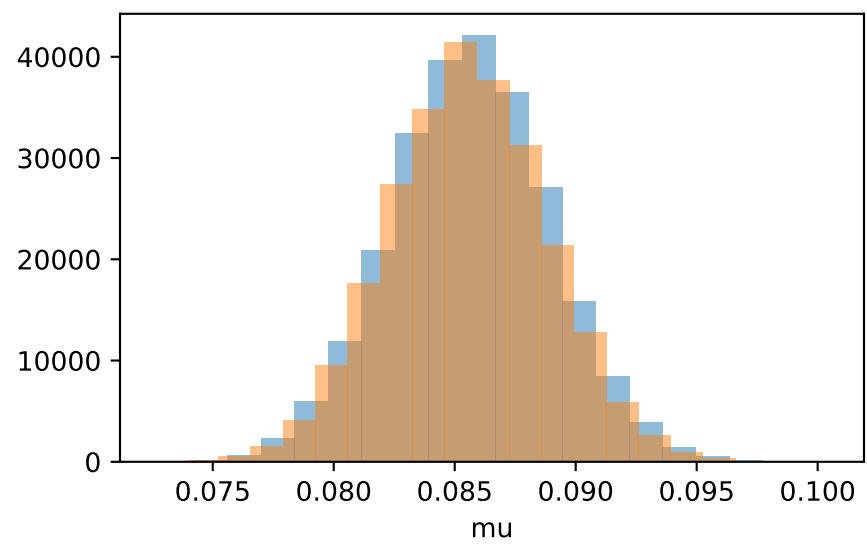
three_i




three_i
120000
100000
80000
60000
40000
20000
0
frequency
46
48
50
52
54
56
58
60
62
chi


three_i
chi
iteration
62
60
58
56
54
52
50
48
46
0
50000
100000
150000
200000
250000

four_i


40000
30000
20000
10000
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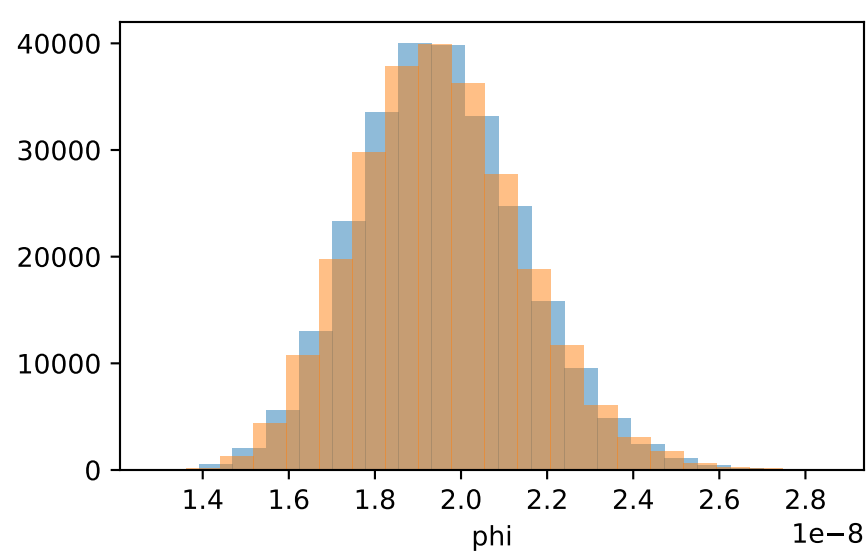
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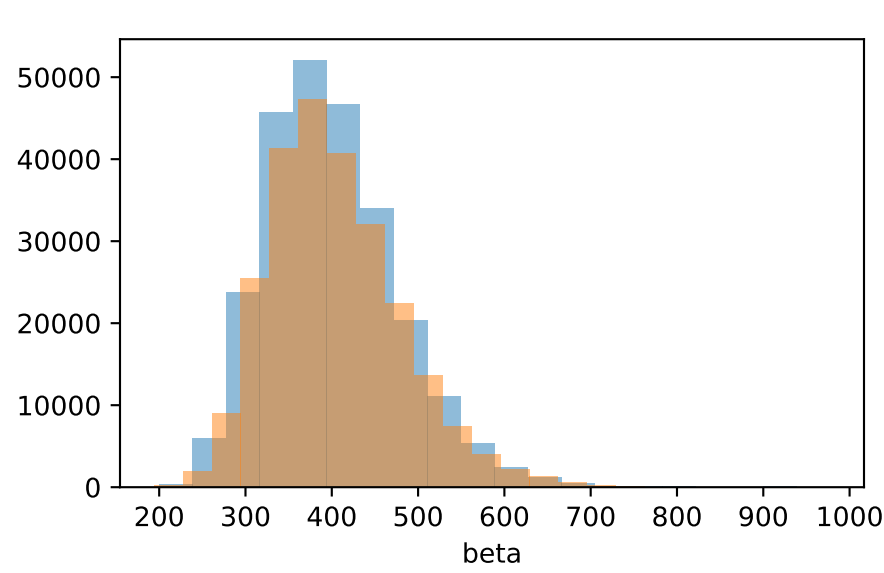
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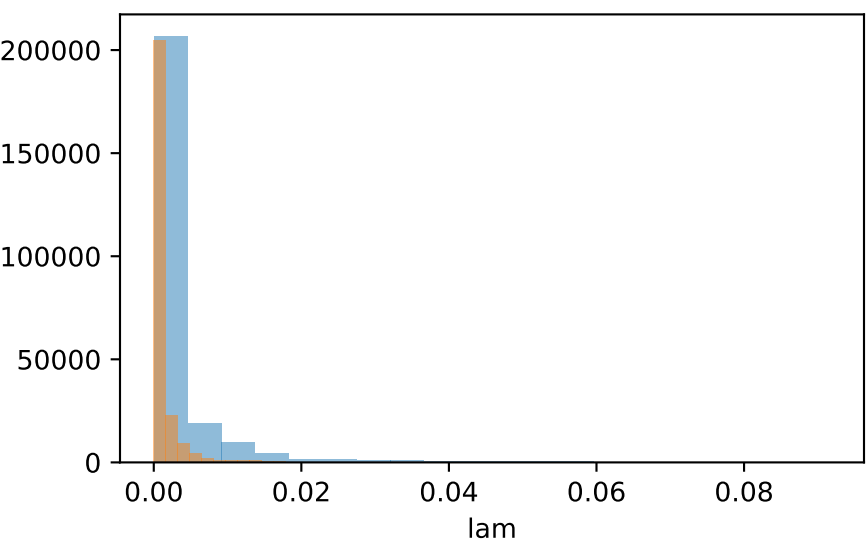
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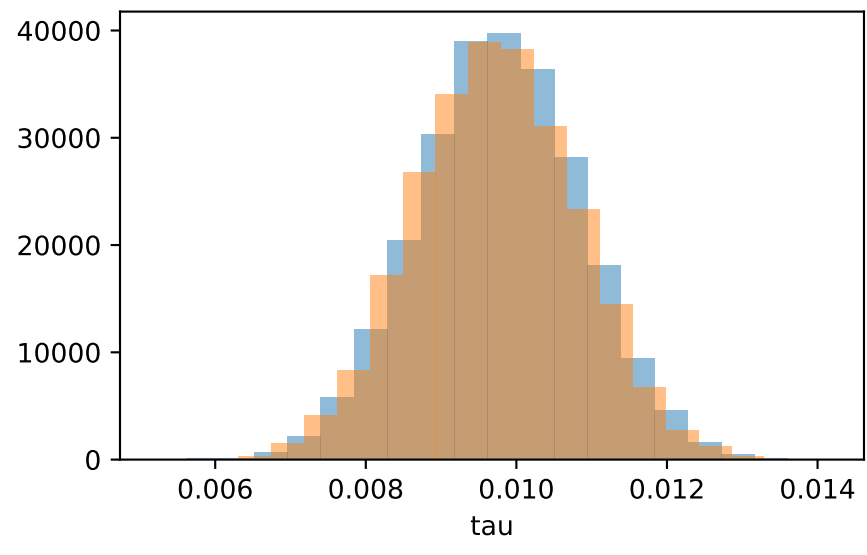
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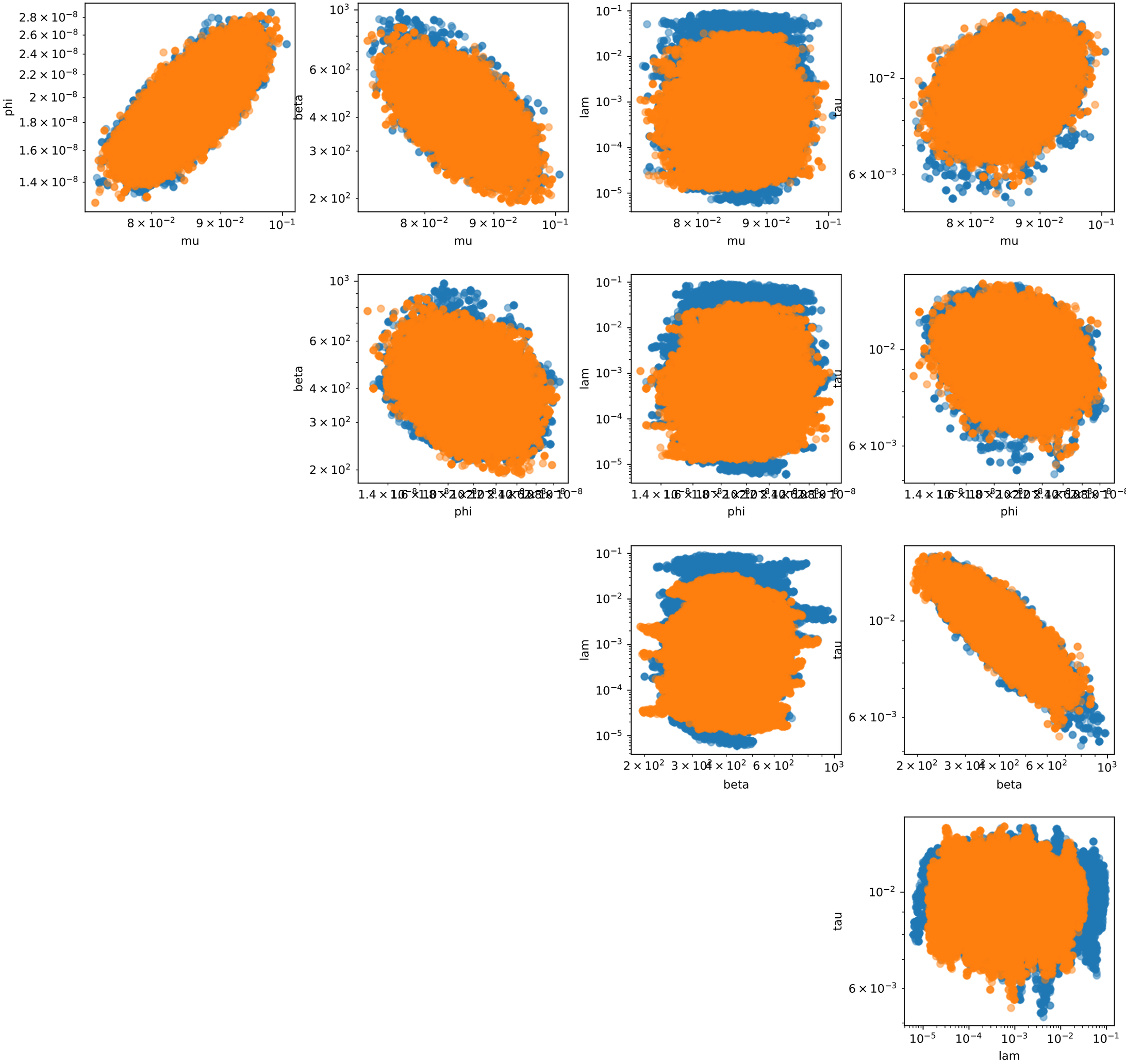

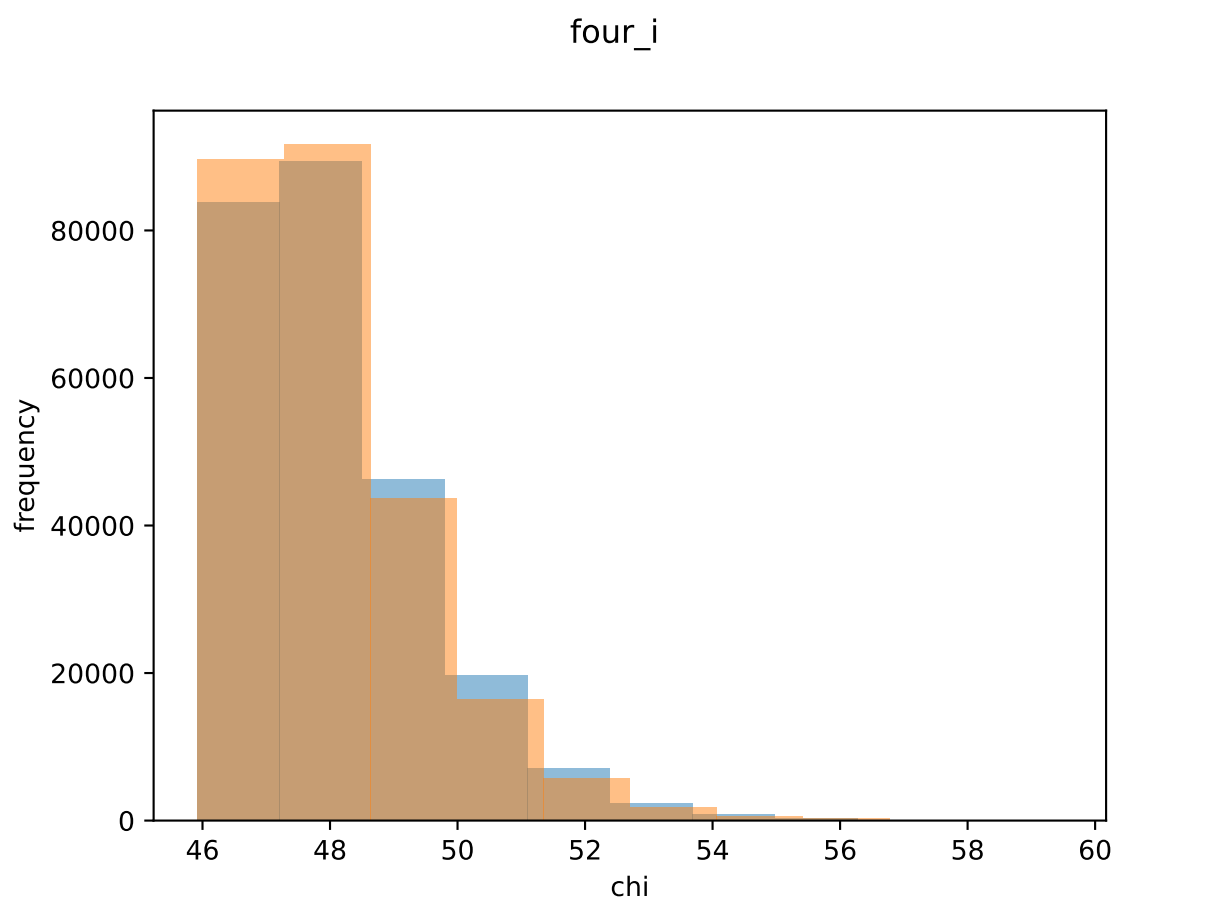
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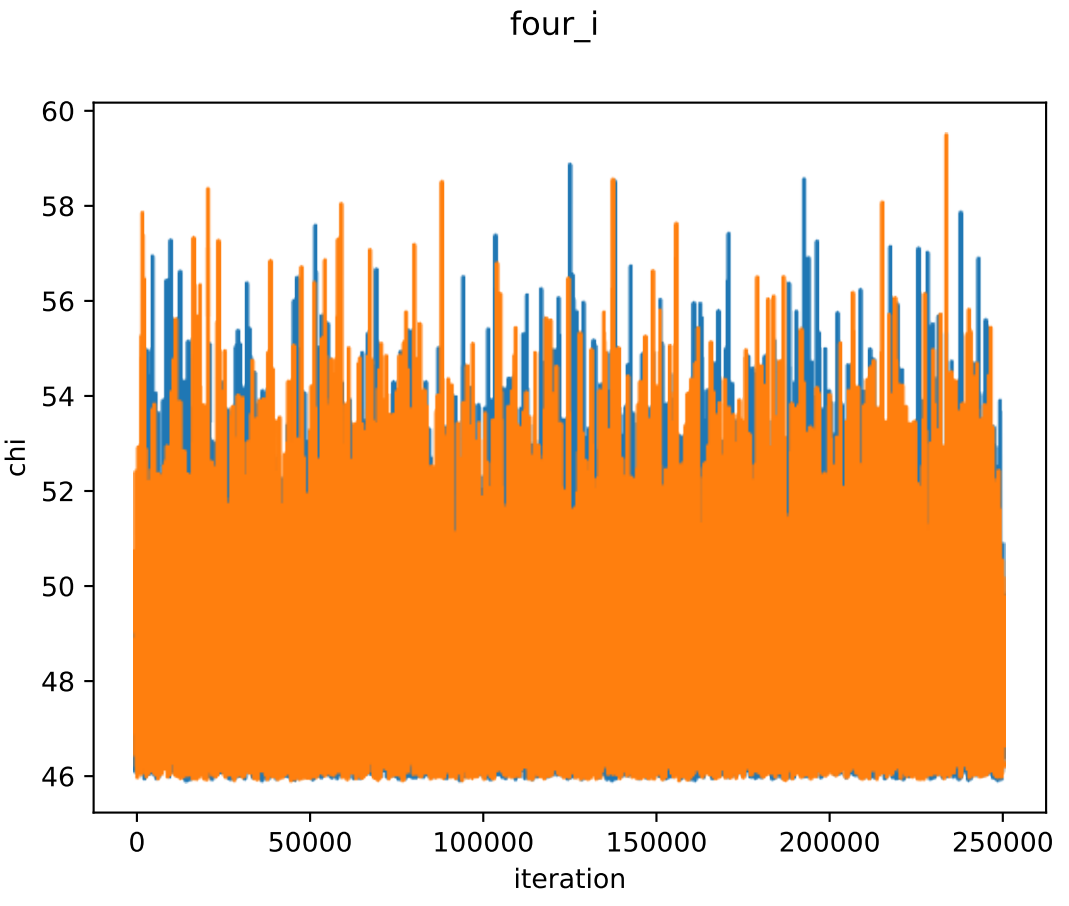
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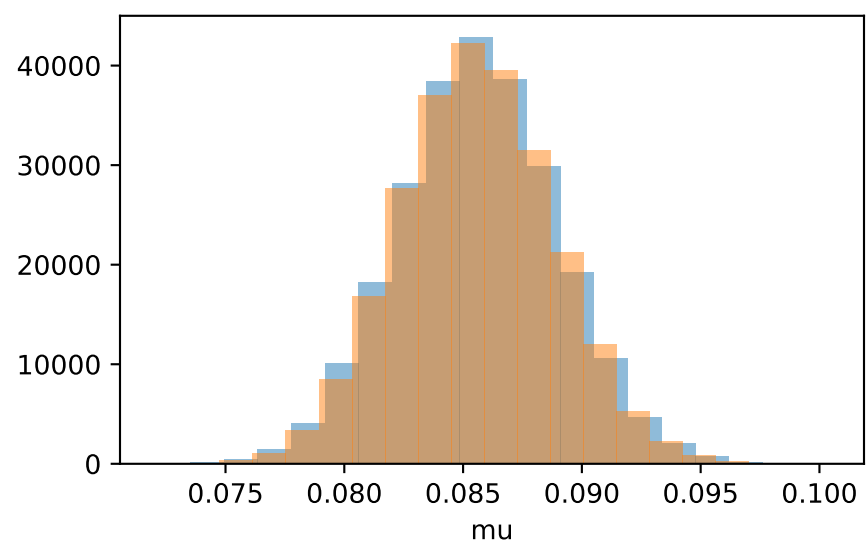
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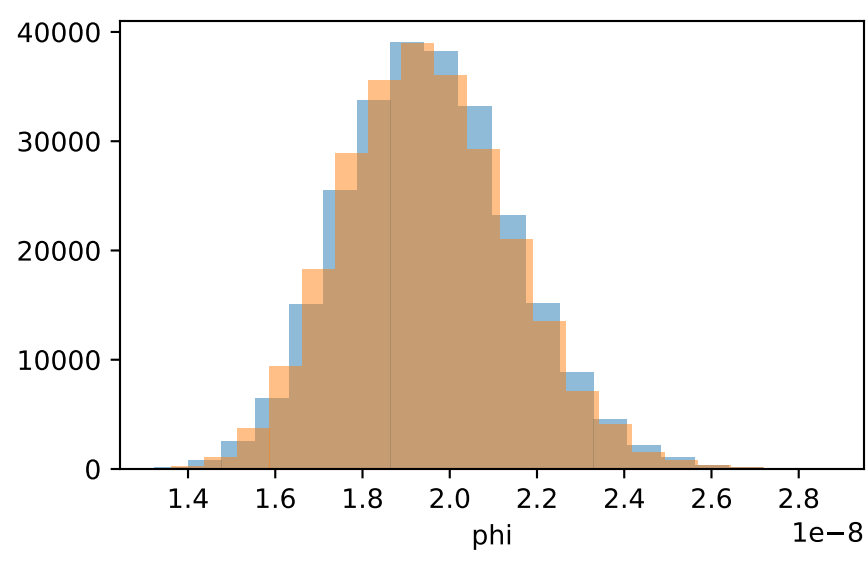
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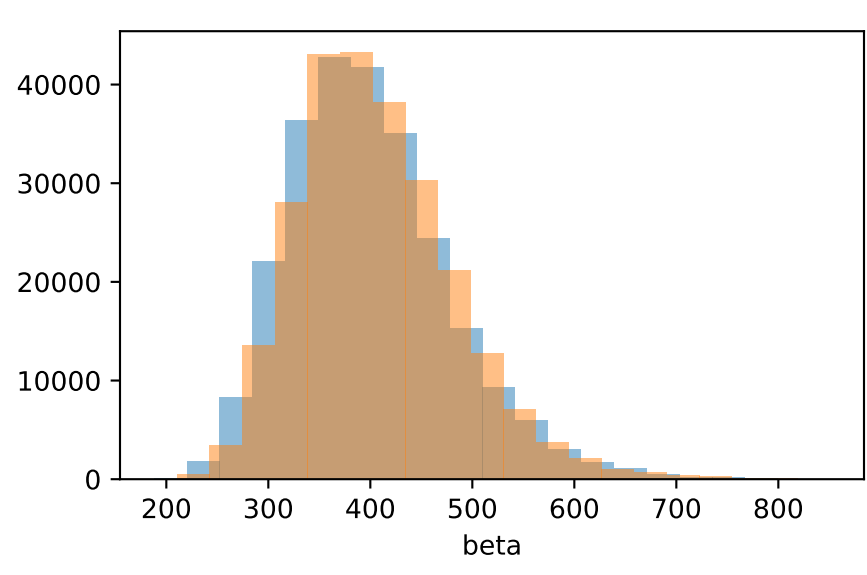
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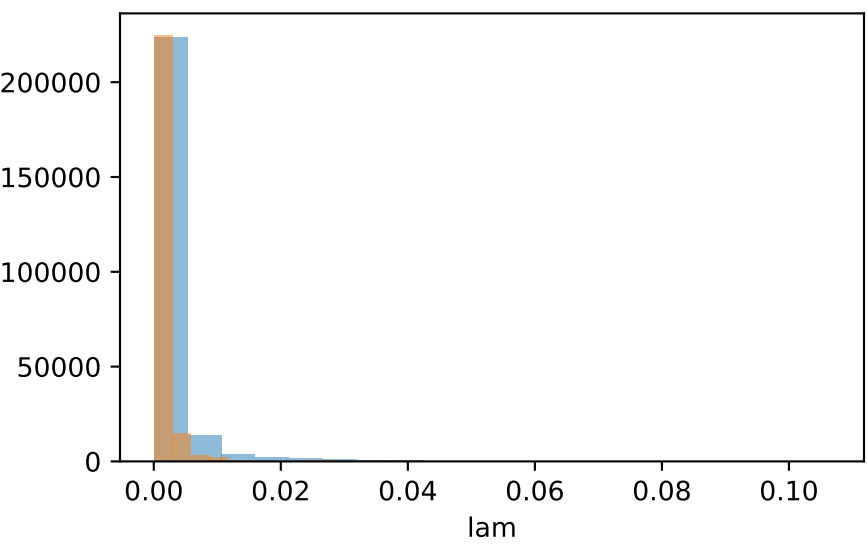
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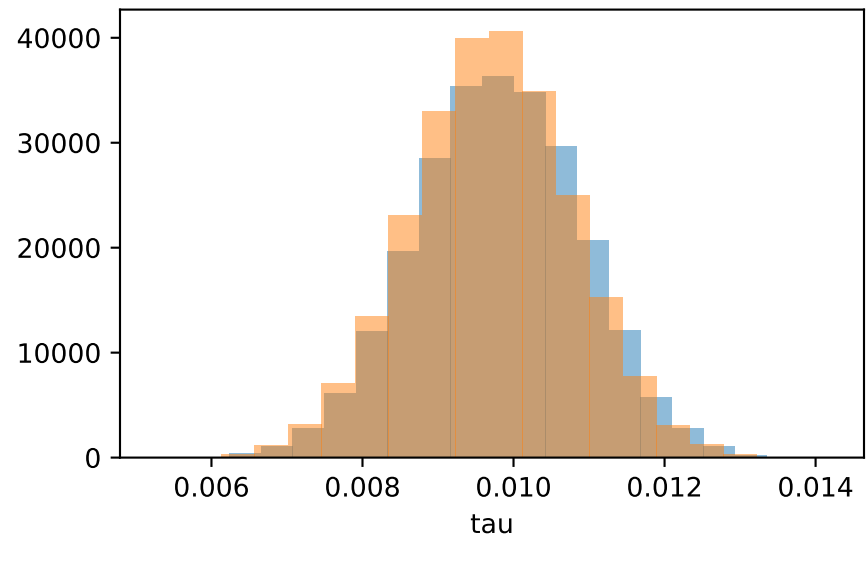
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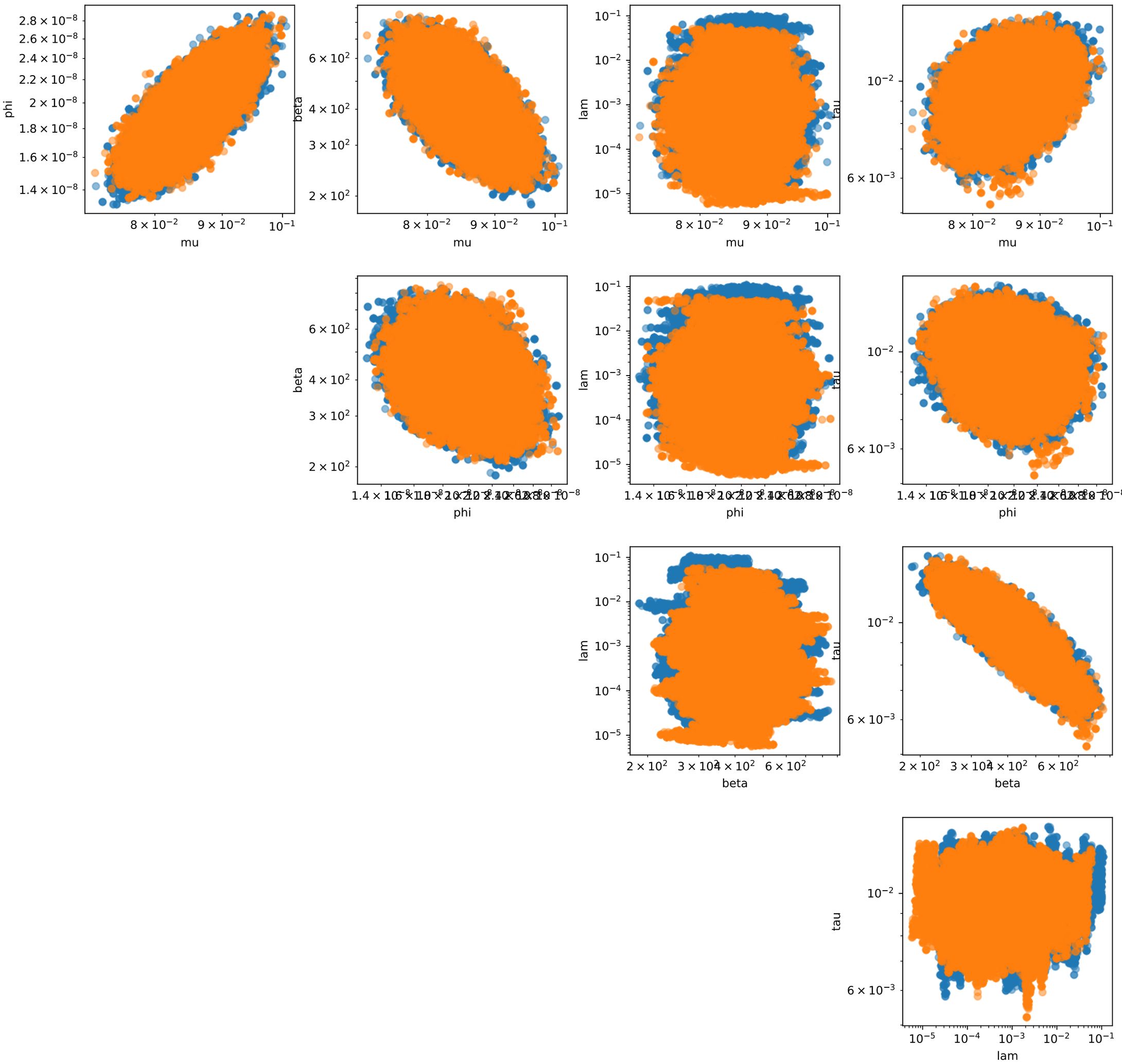

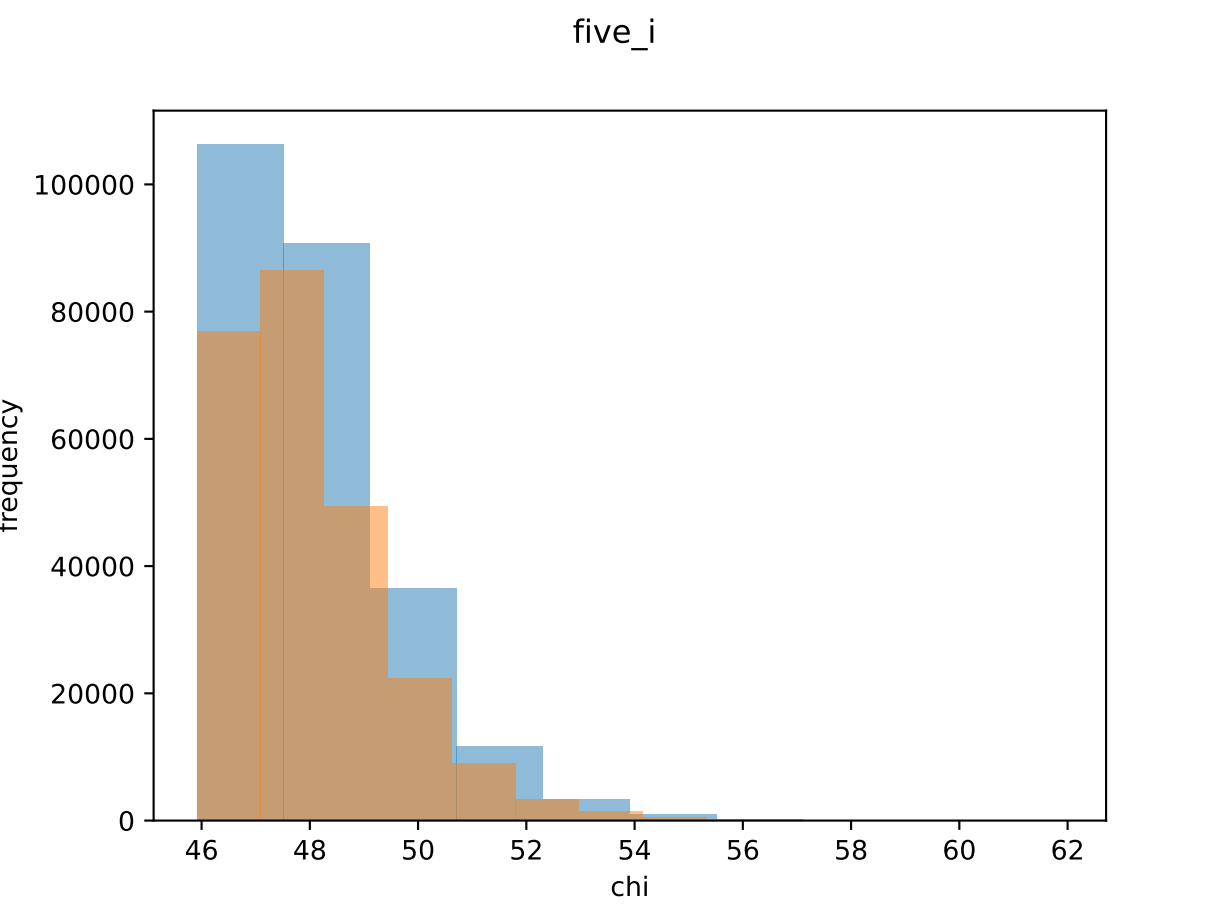
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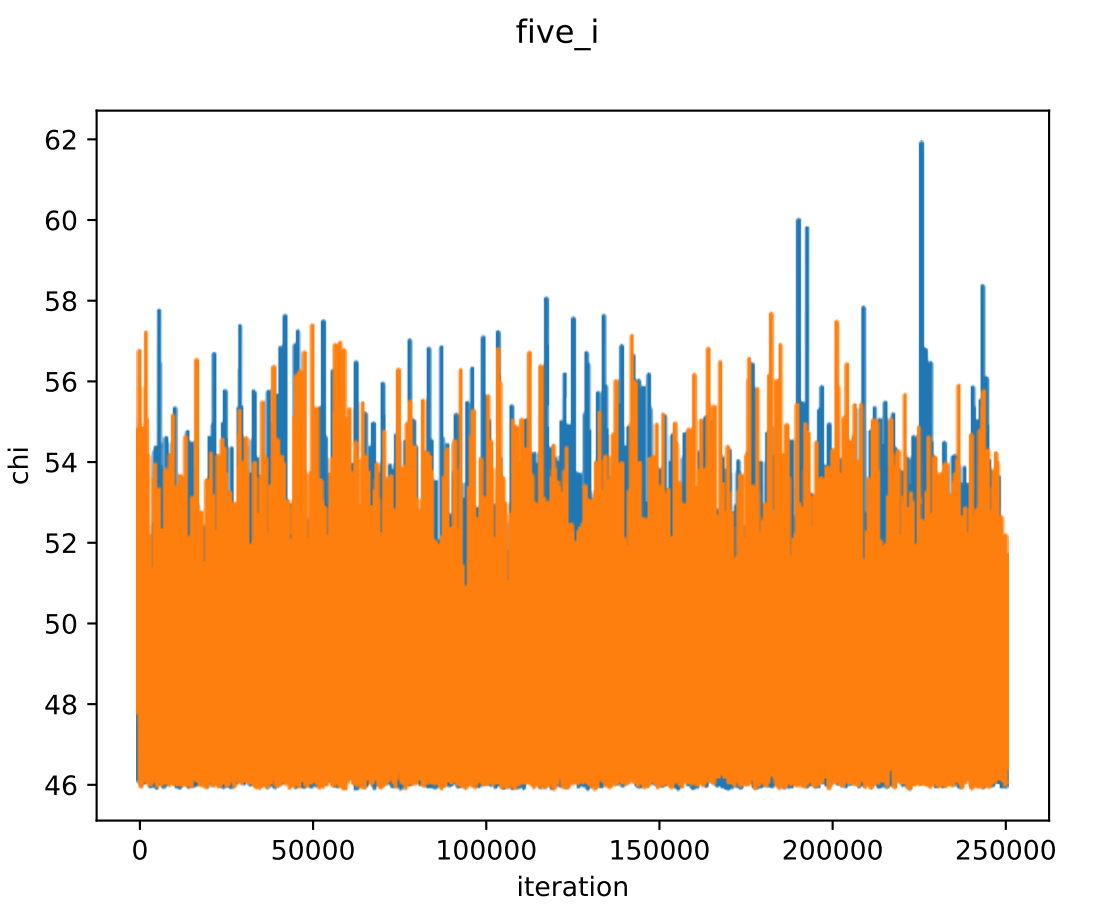
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