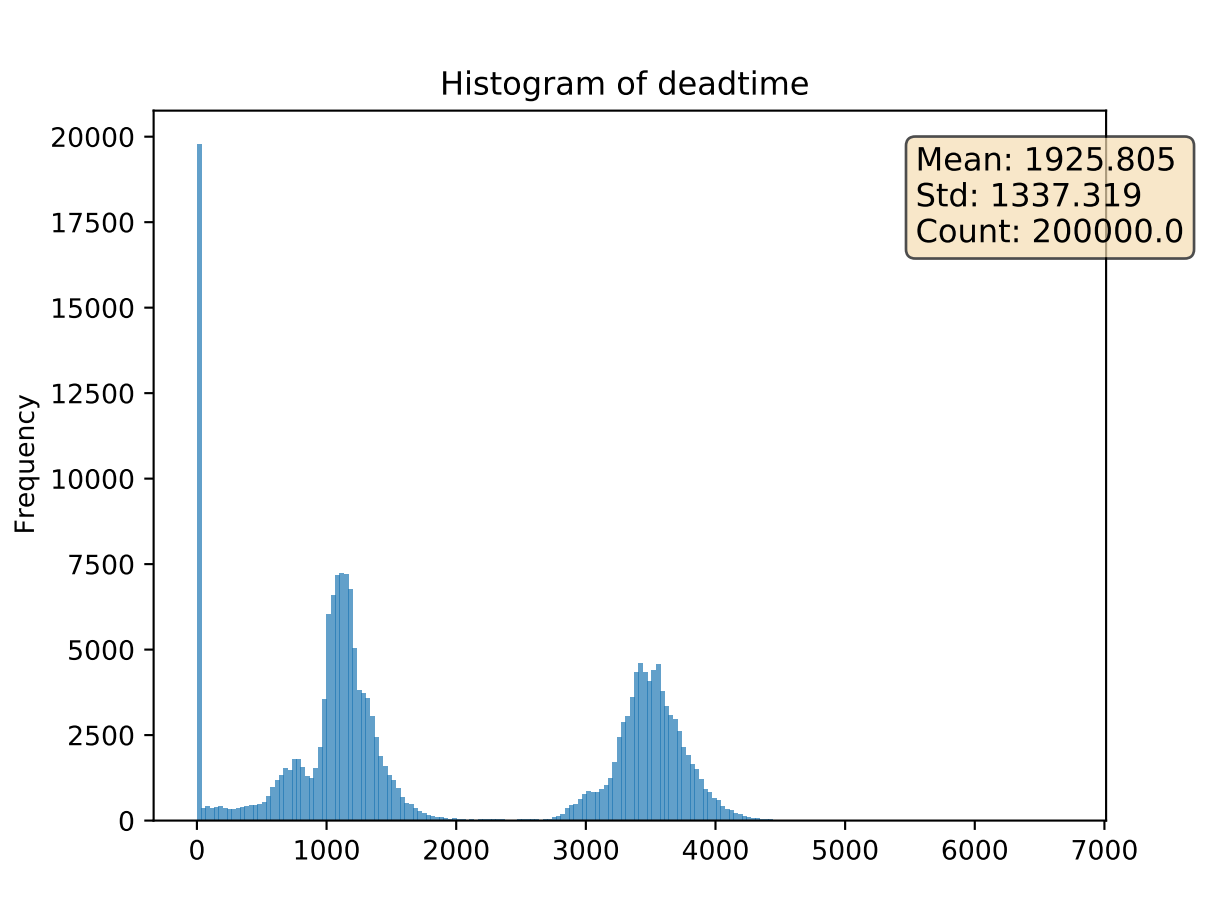
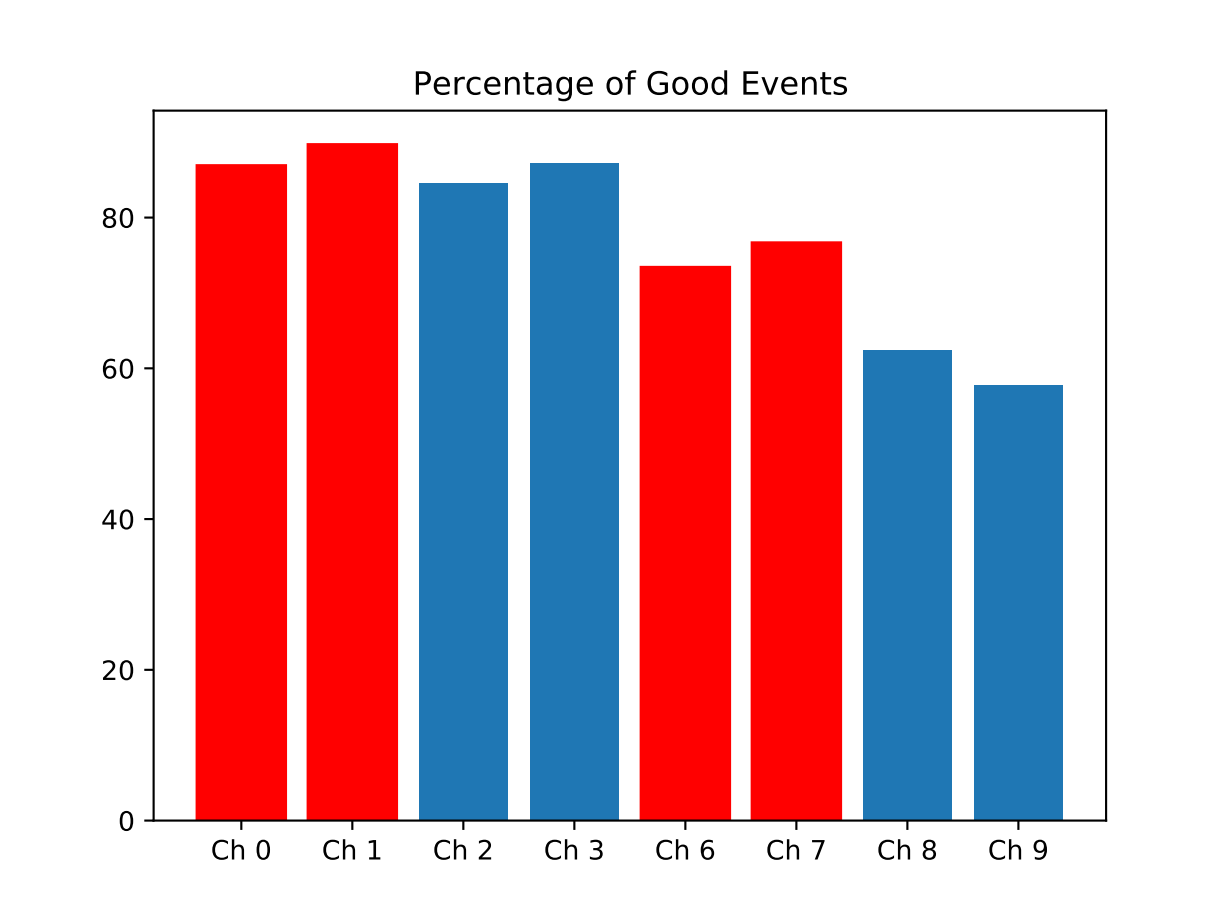
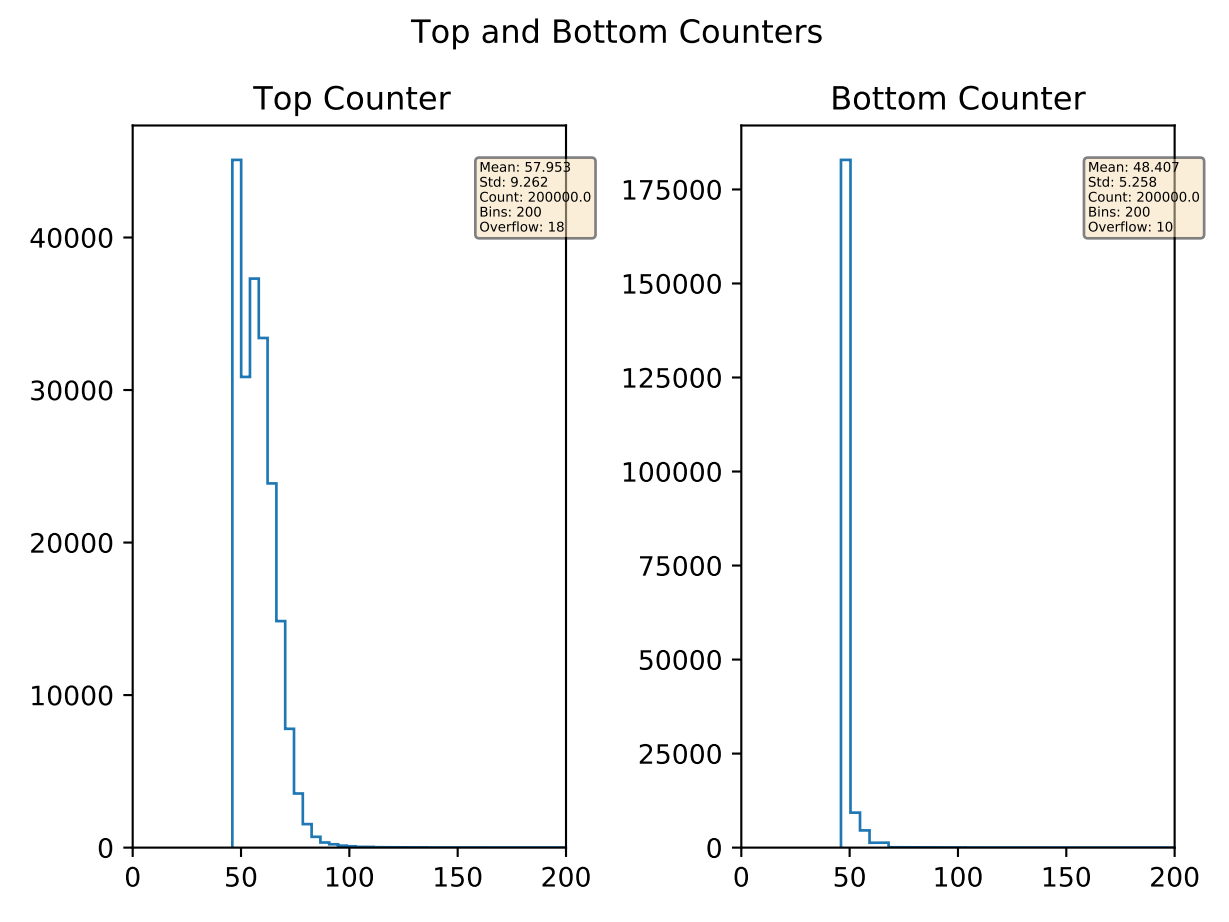
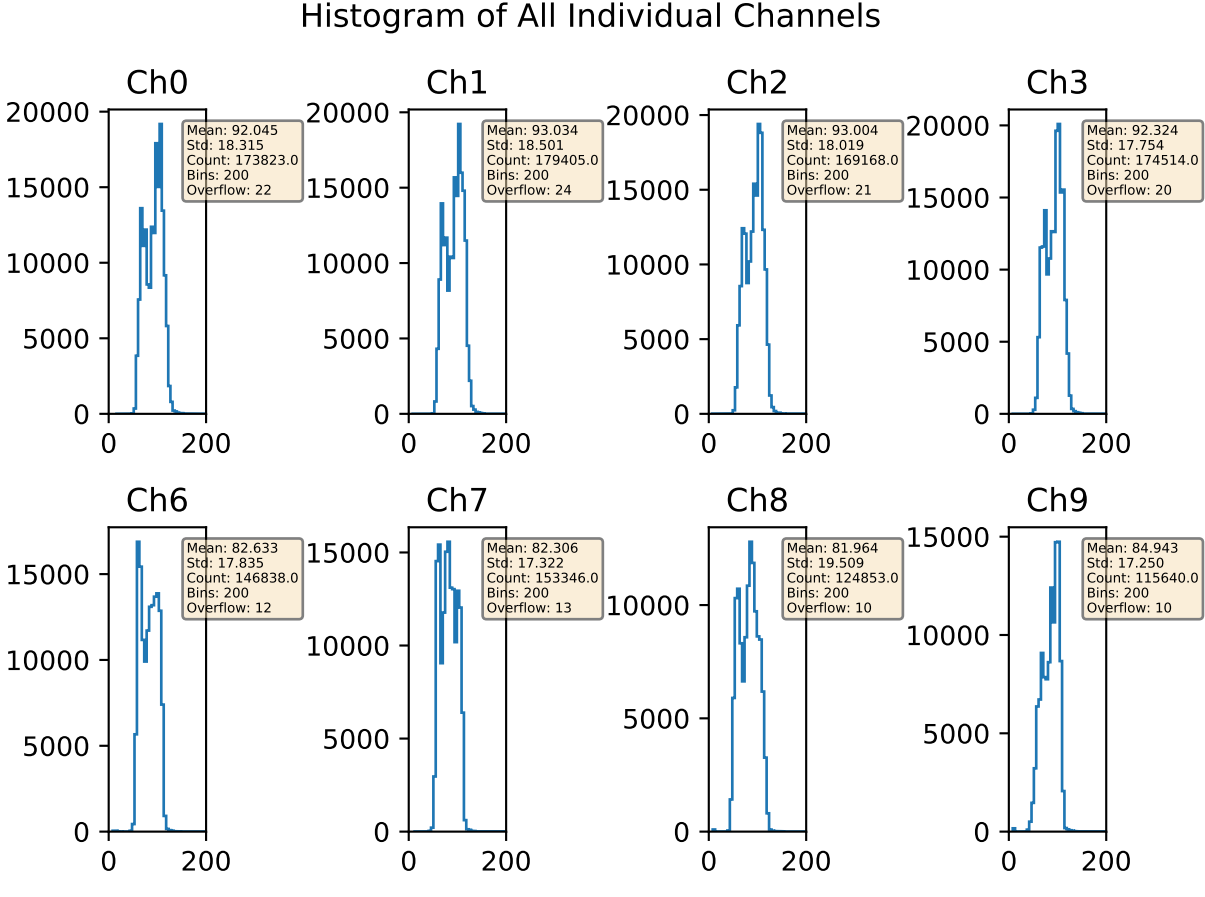
Analysis of Run: 43
Run Start: Dec 17 2020 15:53:16
Run End: Dec 18 2020 10:04:14

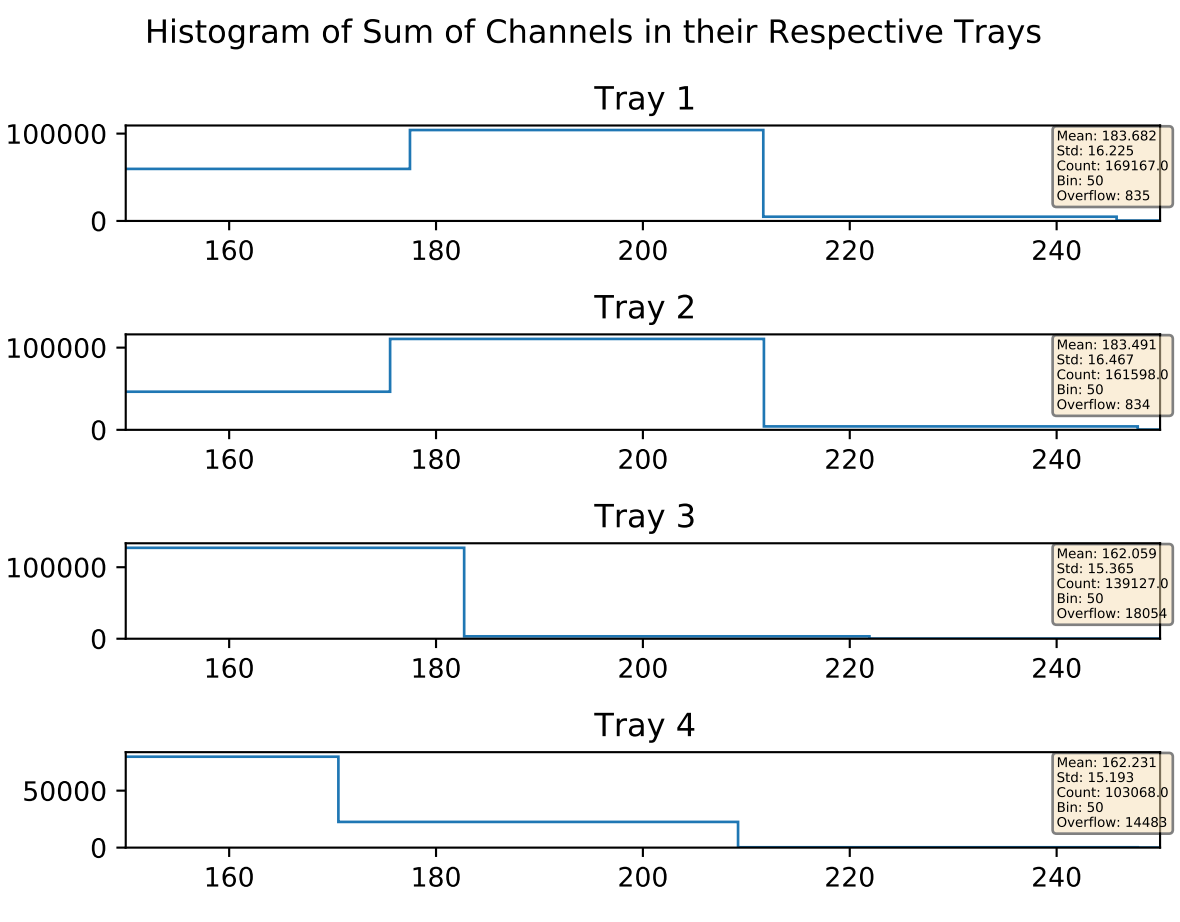
Report Generated at: Dec 18 2020 14:56:39

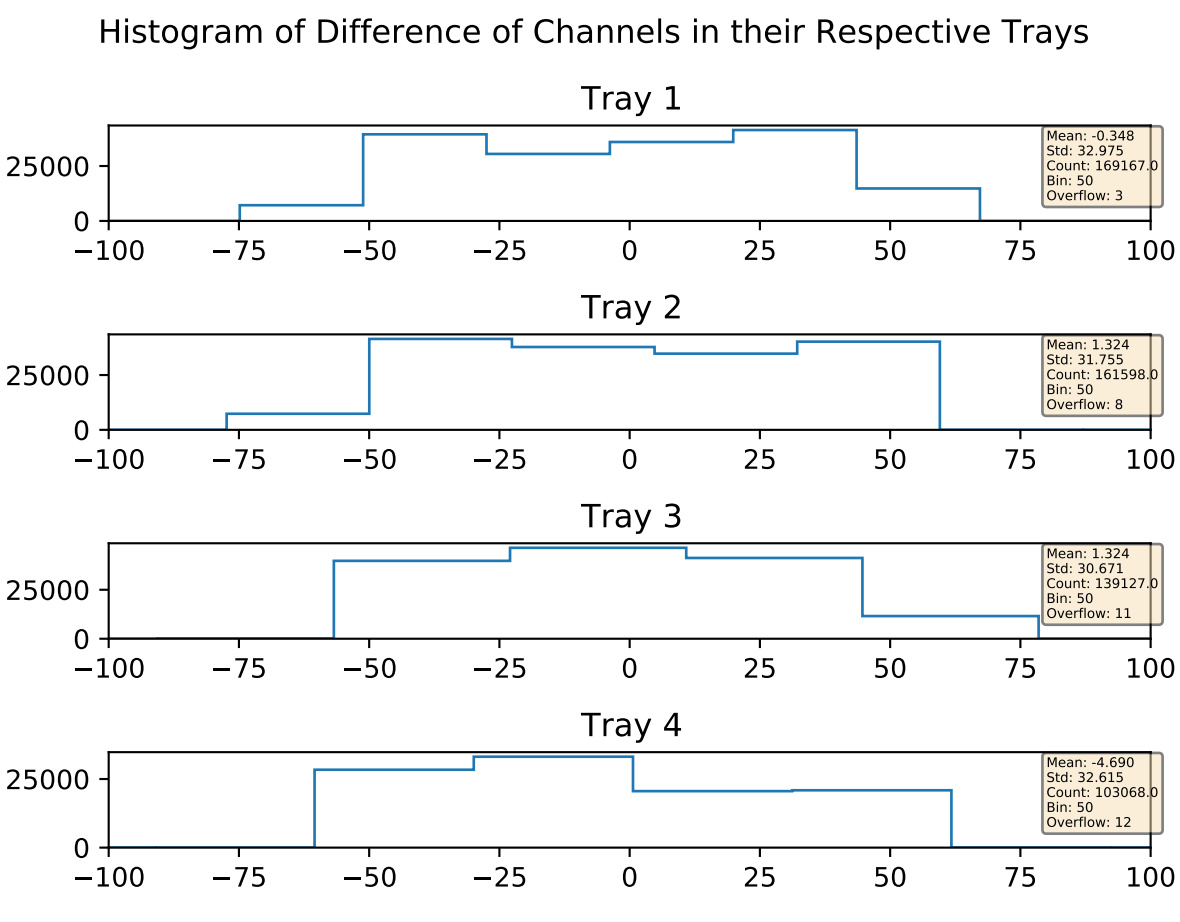

Histogram of deadtime
Mean: 1925.805
Std: 1337.319
Count: 200000.0
Frequency
20000
17500
15000
12500
10000
7500
5000
2500
0
0
1000
2000
3000
4000
5000
6000
7000

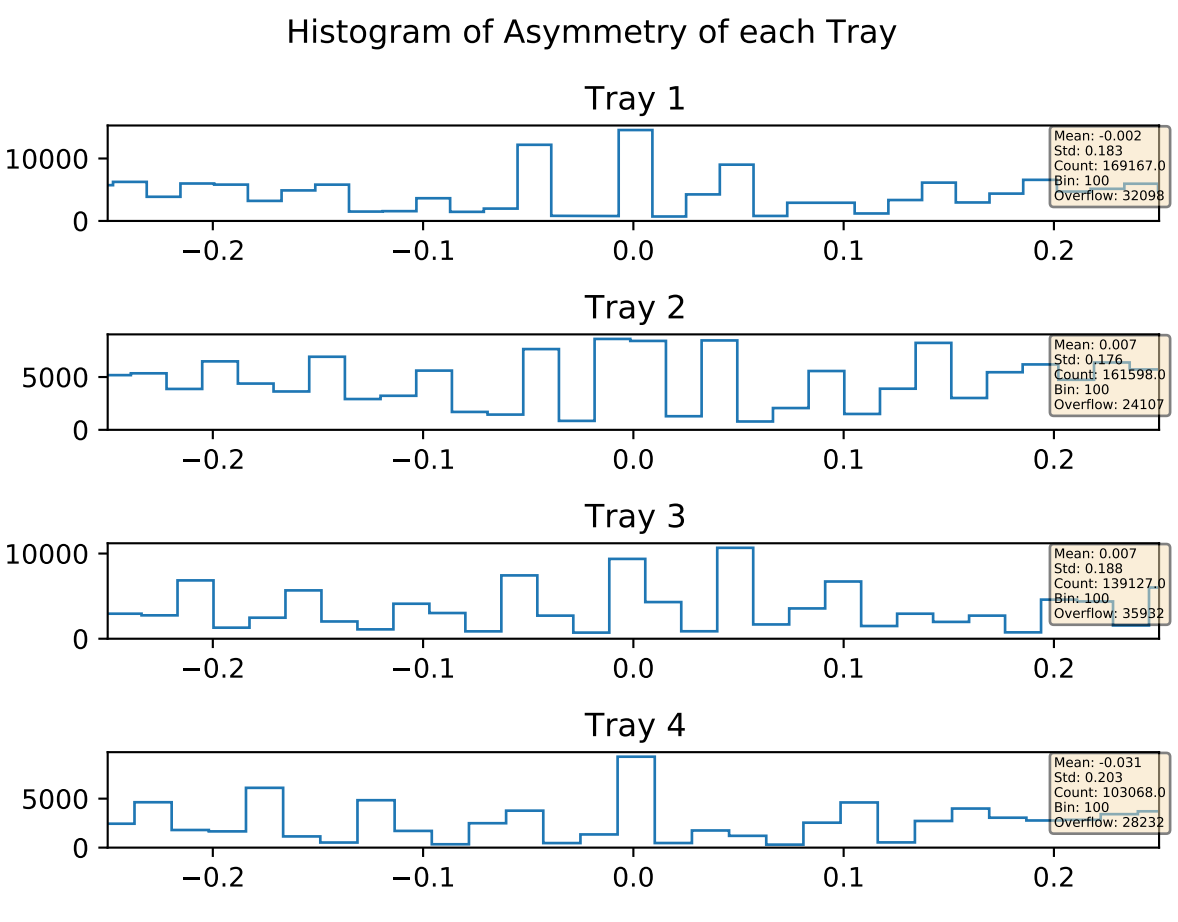

Percentage of Good Events
0
20
40
60
80
Ch 0
Ch 1
Ch 2
Ch 3
Ch 6
Ch 7
Ch 8
Ch 9

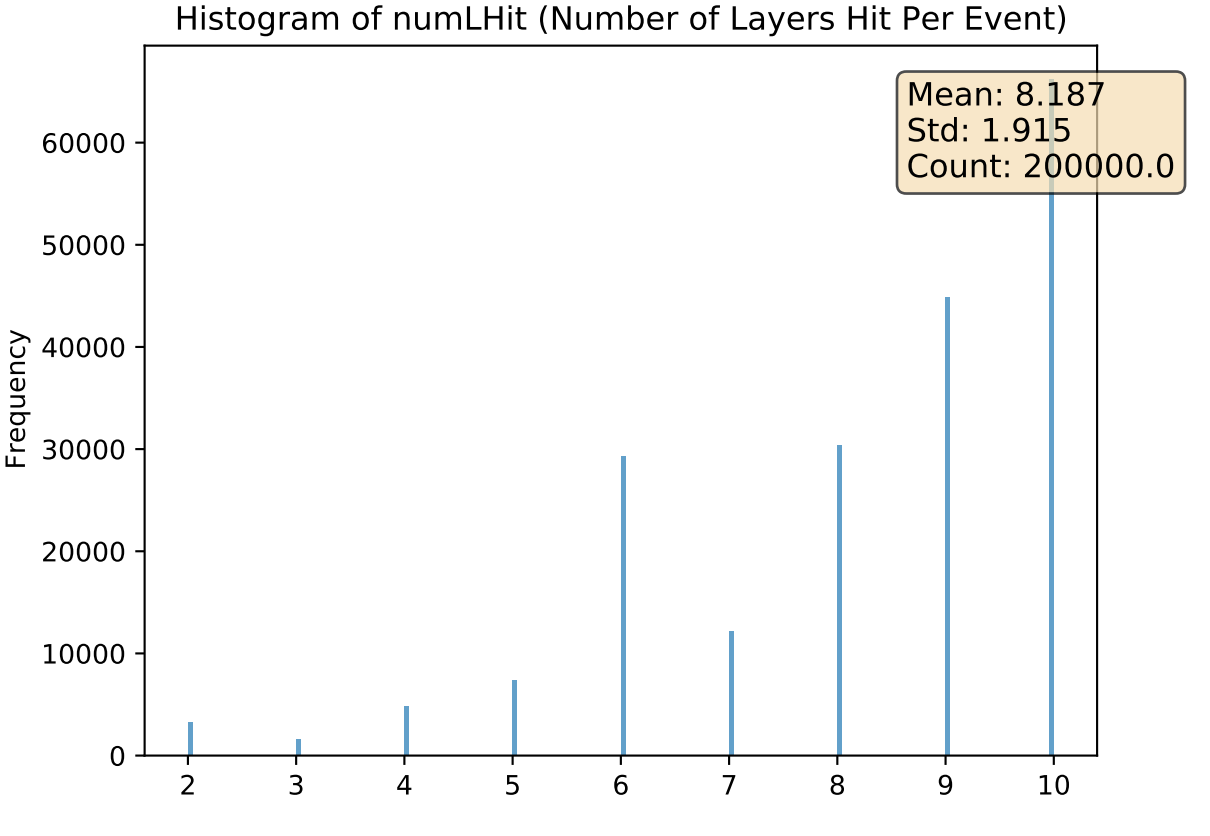

Top and Bottom Counters
Top Counter
Mean: 57.953
Std: 9.262
Count: 200000.0
Bins: 200
Overflow: 18
40000
30000
20000
10000
0
0
50
100
150
200
Bottom Counter
Mean: 48.407
Std: 5.258
Count: 200000.0
Bins: 200
Overflow: 10
175000
150000
125000
100000
75000
50000
25000
0
0
50
100
150
200

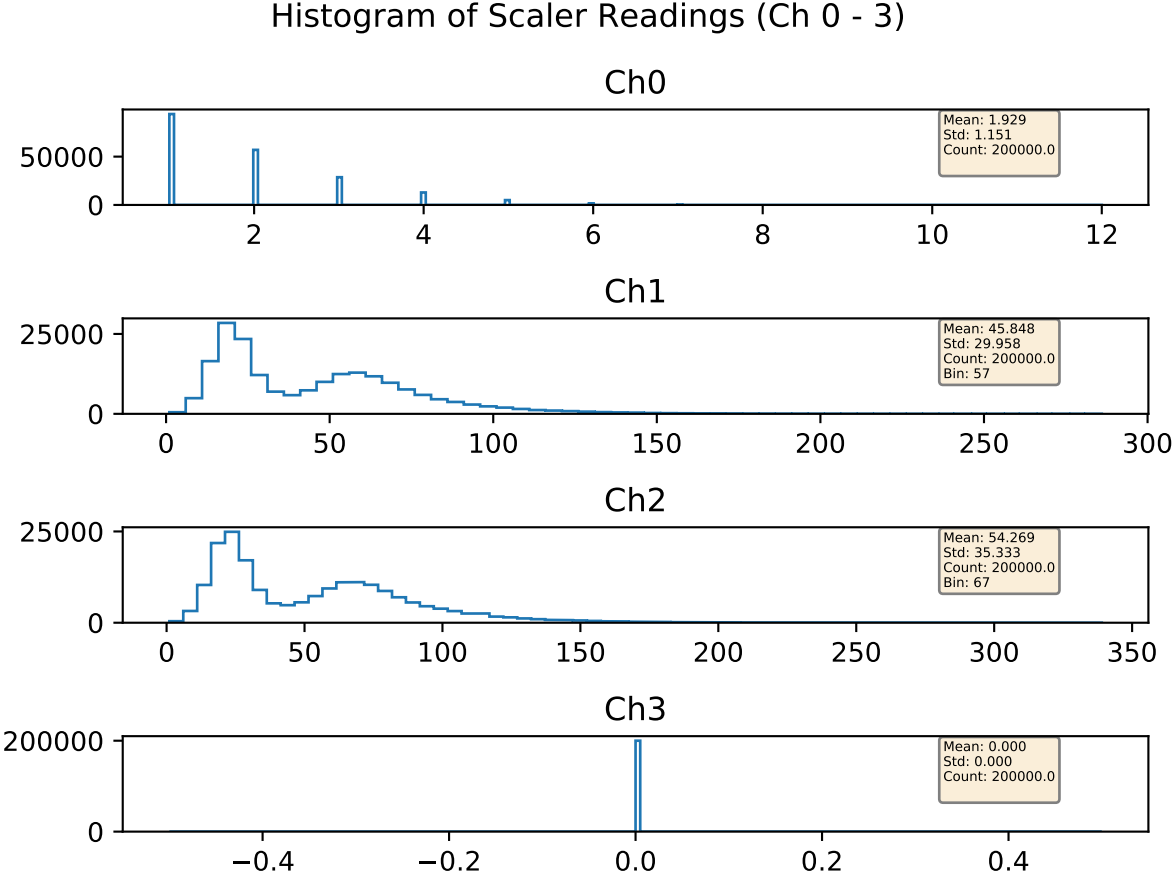

Histogram of All Individual Channels
Ch0
Mean: 92.045
Std: 18.315
Count: 173823.0
Bins: 200
Overflow: 22
Ch1
Mean: 93.034
Std: 18.501
Count: 179405.0
Bins: 200
Overflow: 24
Ch2
Mean: 93.004
Std: 18.019
Count: 169168.0
Bins: 200
Overflow: 21
Ch3
Mean: 92.324
Std: 17.754
Count: 174514.0
Bins: 200
Overflow: 20
Ch6
Mean: 82.633
Std: 17.835
Count: 146838.0
Bins: 200
Overflow: 12
Ch7
Mean: 82.306
Std: 17.322
Count: 153346.0
Bins: 200
Overflow: 13
Ch8
Mean: 81.964
Std: 19.509
Count: 124853.0
Bins: 200
Overflow: 10
Ch9
Mean: 84.943
Std: 17.250
Count: 115640.0
Bins: 200
Overflow: 10

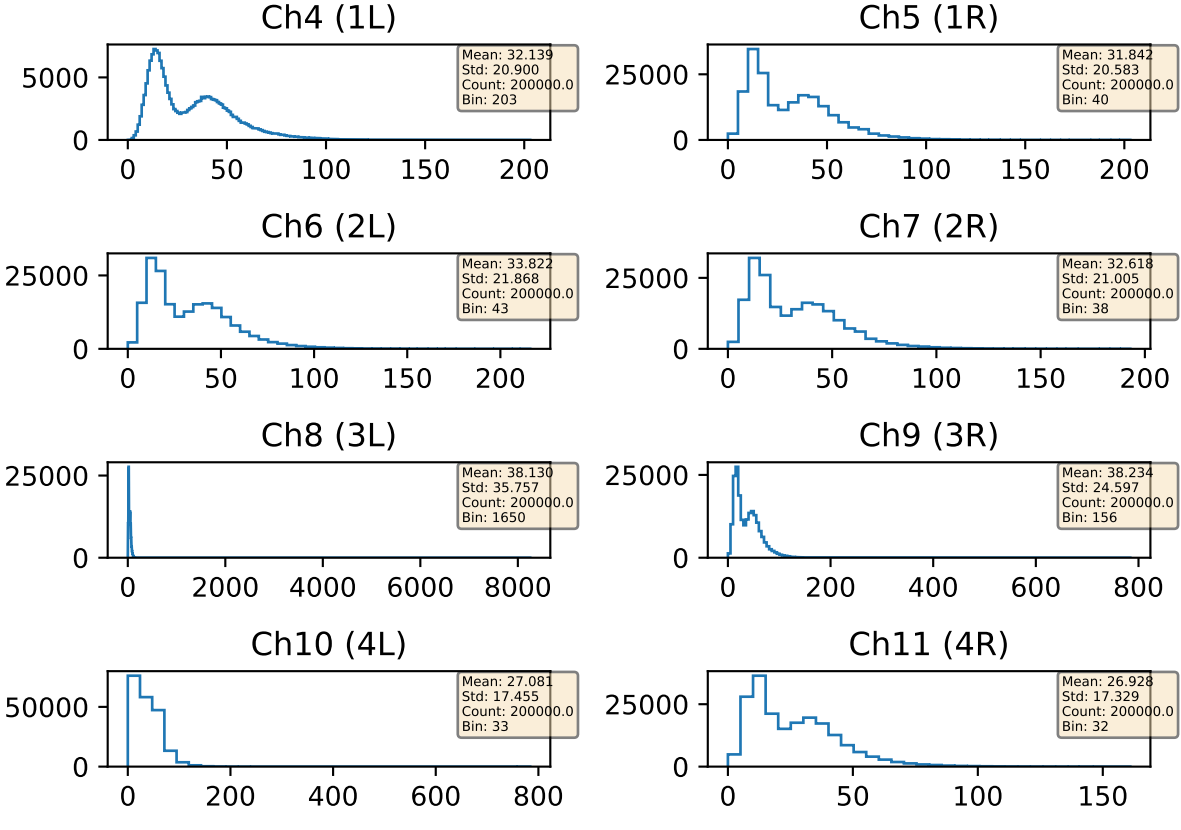

Histogram of Sum of Channels in their Respective Trays
Tray 1
100000
0
160
180
200
220
240
Mean: 183.682
Std: 16.225
Count: 169167.0
Bin: 50
Overflow: 835
Tray 2
100000
0
160
180
200
220
240
Mean: 183.491
Std: 16.467
Count: 161598.0
Bin: 50
Overflow: 834
Tray 3
100000
0
160
180
200
220
240
Mean: 162.059
Std: 15.365
Count: 139127.0
Bin: 50
Overflow: 18054
Tray 4
50000
0
160
180
200
220
240
Mean: 162.231
Std: 15.193
Count: 103068.0
Bin: 50
Overflow: 14483

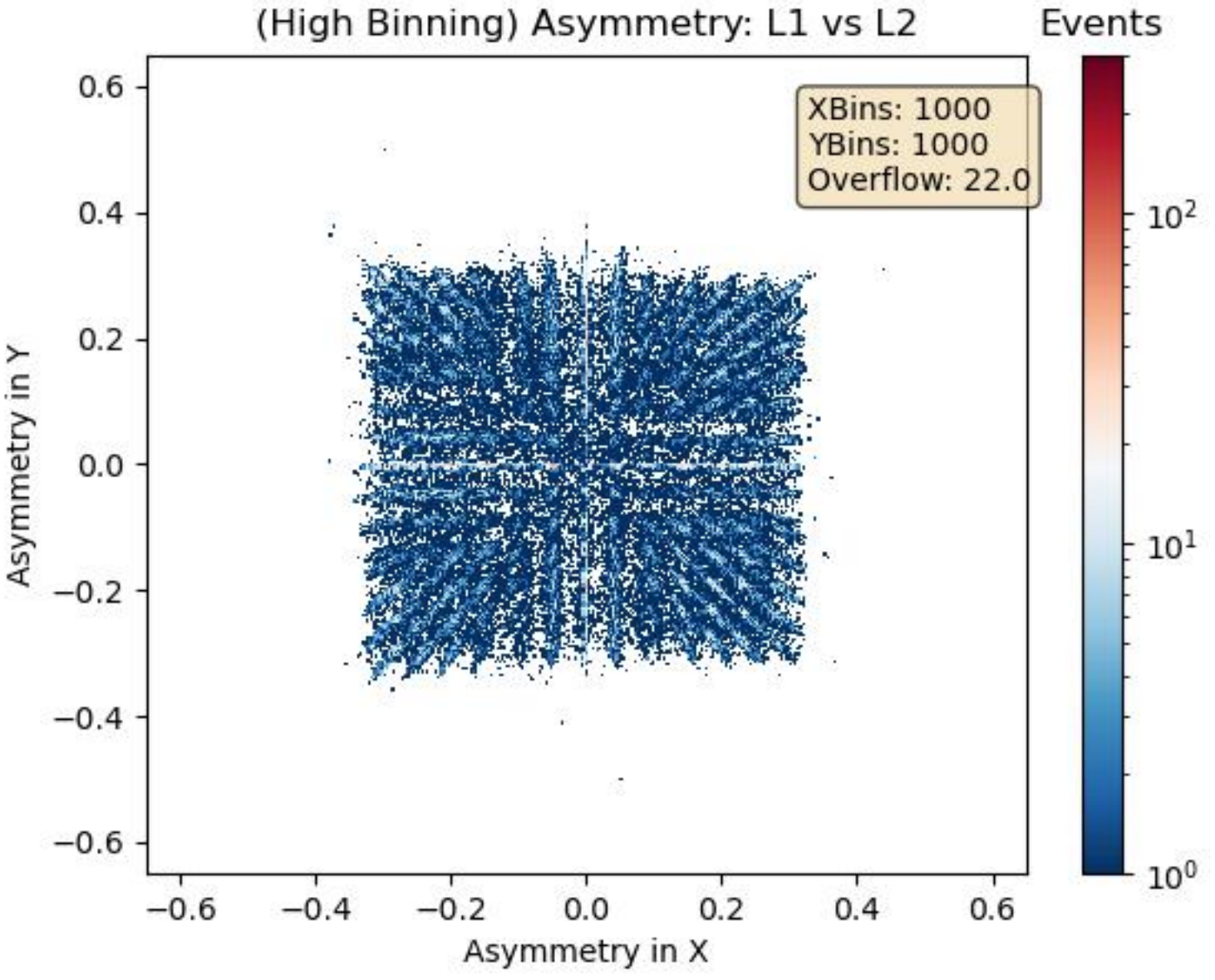

Histogram of Difference of Channels in their Respective Trays
Tray 1
Mean: -0.348
Std: 32.975
Count: 169167.0
Bin: 50
Overflow: 3
Tray 2
Mean: 1.324
Std: 31.755
Count: 161598.0
Bin: 50
Overflow: 8
Tray 3
Mean: 1.324
Std: 30.671
Count: 139127.0
Bin: 50
Overflow: 11
Tray 4
Mean: -4.690
Std: 32.615
Count: 103068.0
Bin: 50
Overflow: 12
25000
0
−100
−75
−50
−25
0
25
50
75
100

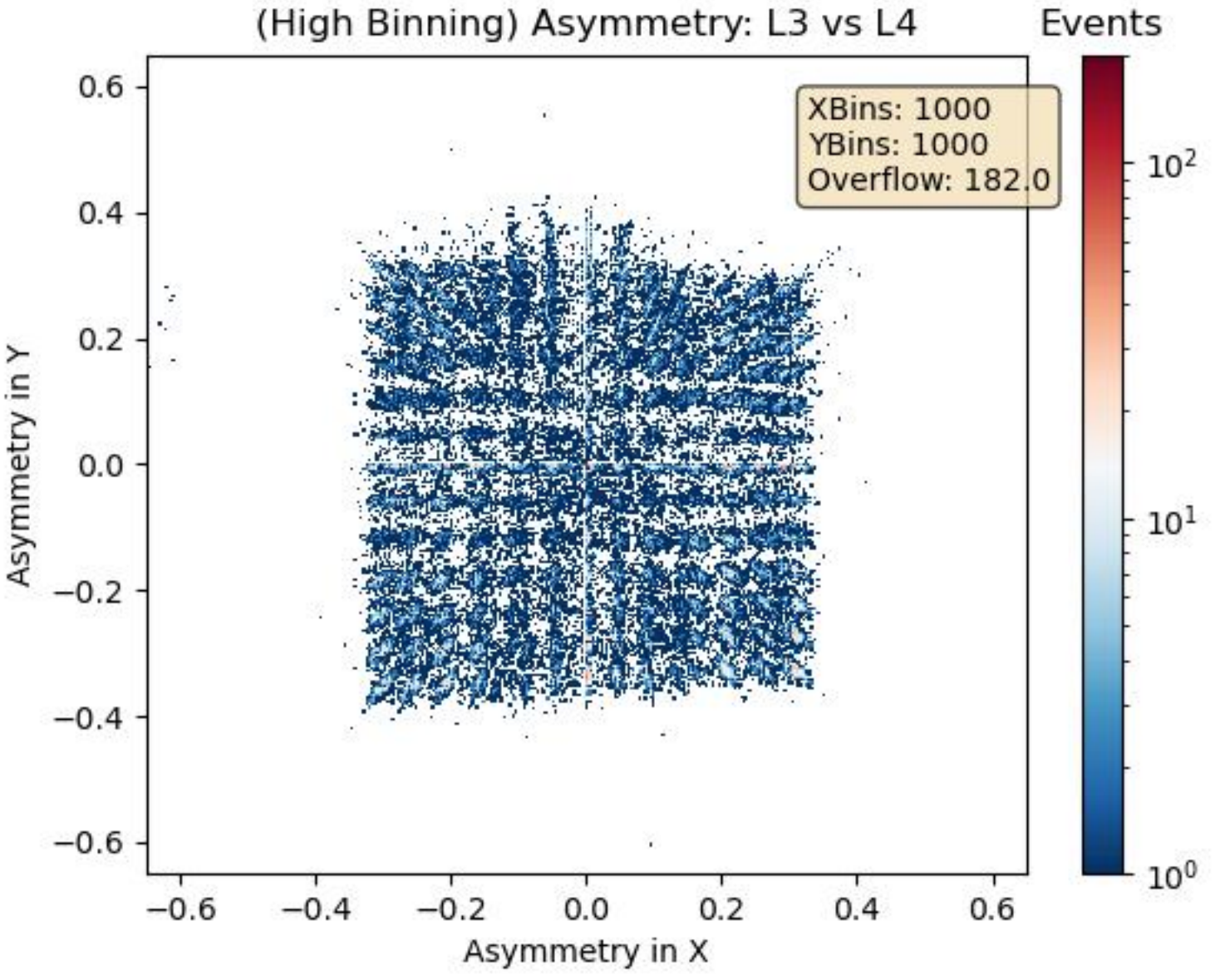

Histogram of Asymmetry of each Tray
Tray 1
Mean: -0.002
Std: 0.183
Count: 169167.0
Bin: 100
Overflow: 32098
Tray 2
Mean: 0.007
Std: 0.176
Count: 161598.0
Bin: 100
Overflow: 24107
Tray 3
Mean: 0.007
Std: 0.188
Count: 139127.0
Bin: 100
Overflow: 35932
Tray 4
Mean: -0.031
Std: 0.203
Count: 103068.0
Bin: 100
Overflow: 28232
10000
5000
0
−0.2
−0.1
0.0
0.1
0.2

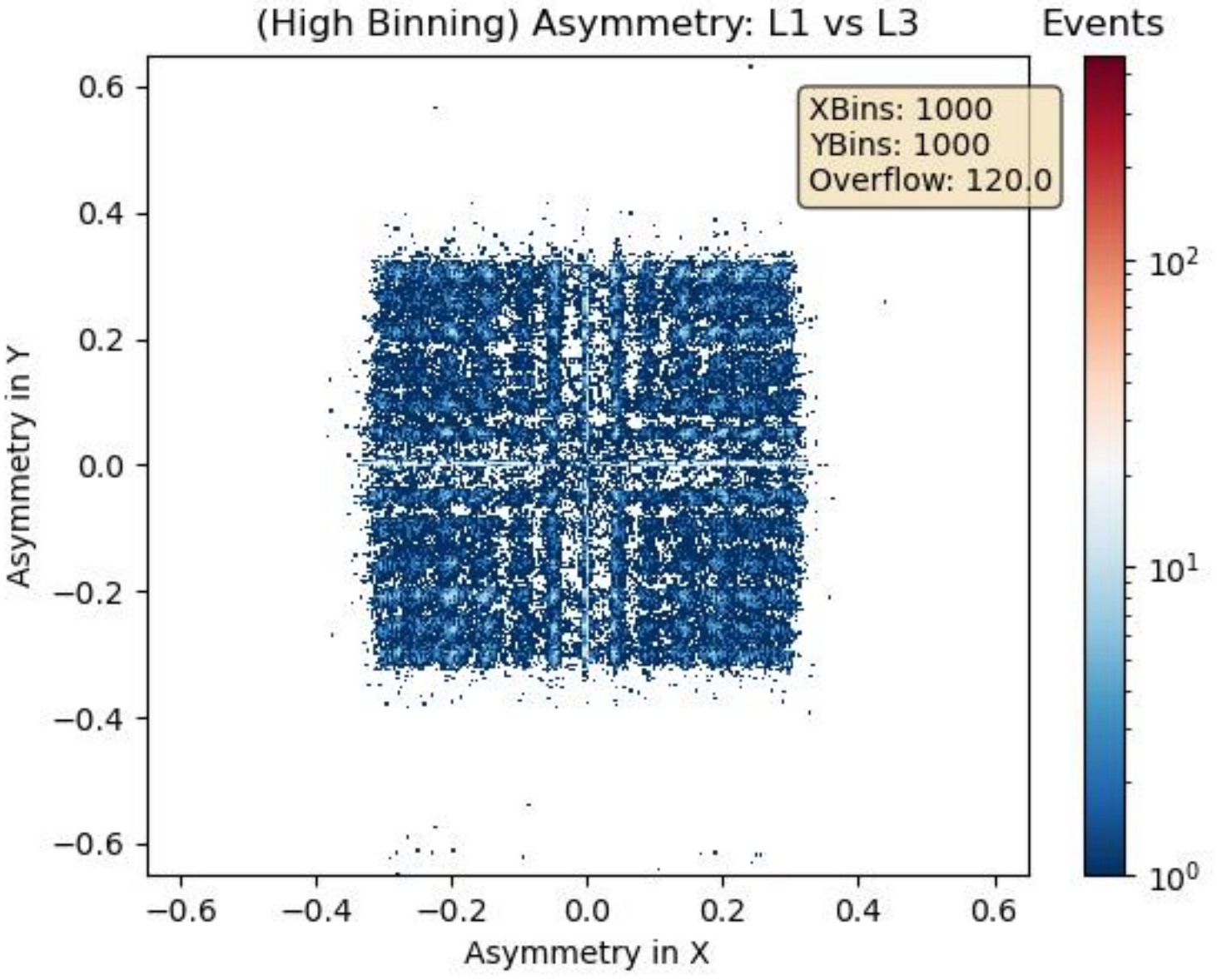

Histogram of numLHit (Number of Layers Hit Per Event)
Mean: 8.187
Std: 1.915
Count: 200000.0
Frequency
0
10000
20000
30000
40000
50000
60000
2
3
4
5
6
7
8
9
10

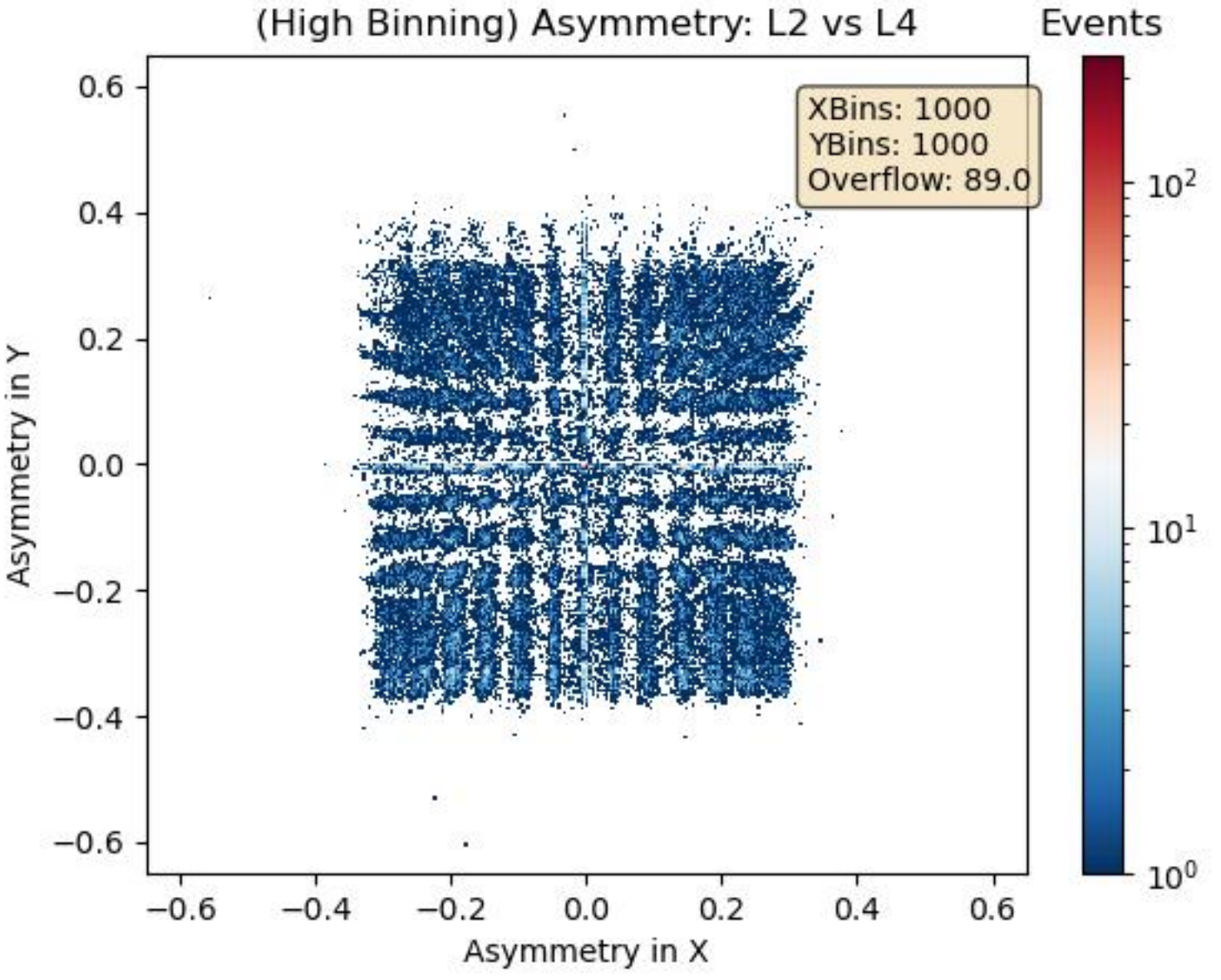

Histogram of Scaler Readings (Ch 0 - 3)
Ch0
Mean: 1.929
Std: 1.151
Count: 200000.0
50000
0
2
4
6
8
10
12
Ch1
Mean: 45.848
Std: 29.958
Count: 200000.0
Bin: 57
25000
0
0
50
100
150
200
250
300
Ch2
Mean: 54.269
Std: 35.333
Count: 200000.0
Bin: 67
25000
0
0
50
100
150
200
250
300
350
Ch3
Mean: 0.000
Std: 0.000
Count: 200000.0
200000
0
−0.4
−0.2
0.0
0.2
0.4

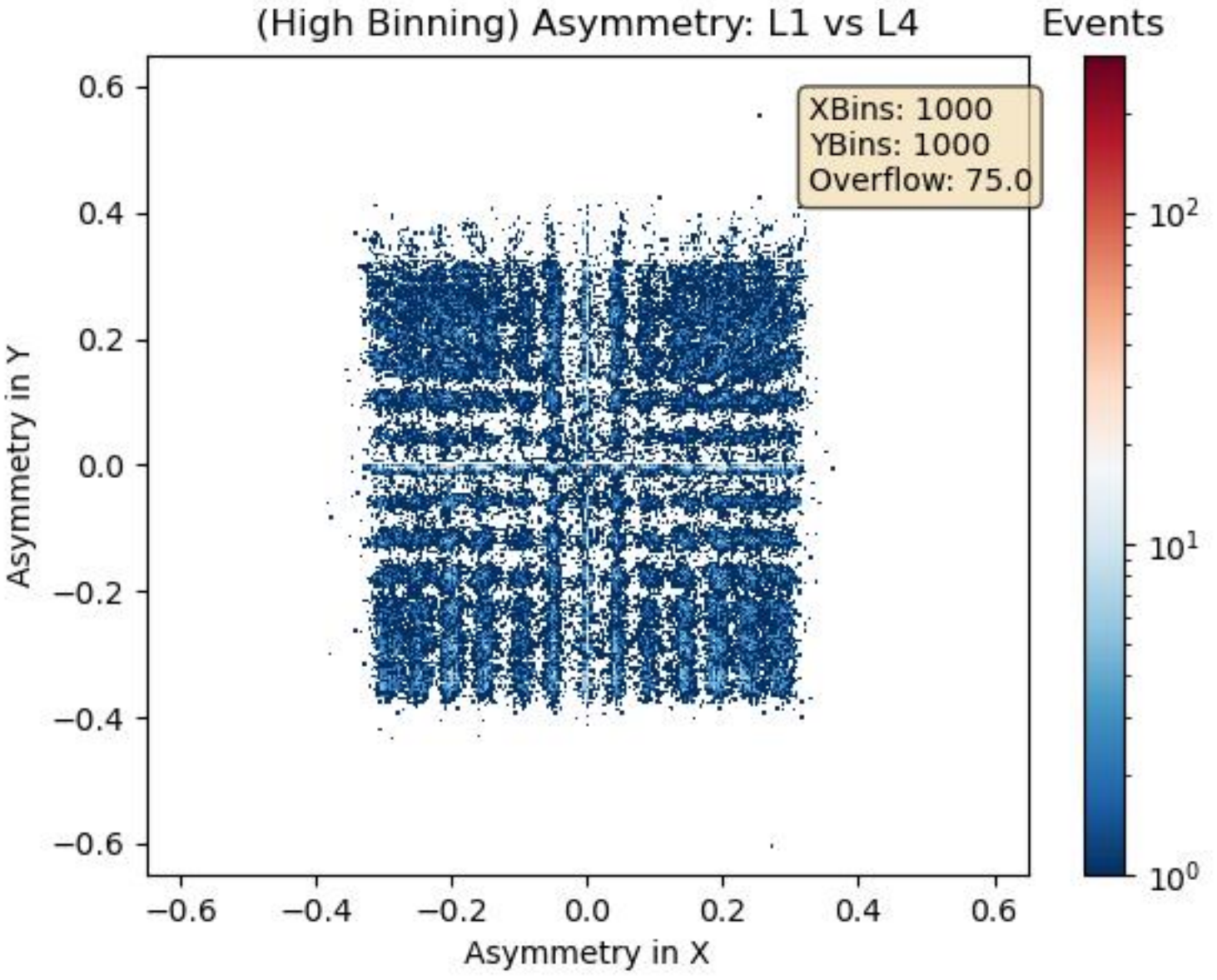

Histogram of Scaler Readings (Ch 4 - 11)
Ch4 (1L)
Mean: 32.139
Std: 20.900
Count: 200000.0
Bin: 203
Ch5 (1R)
Mean: 31.842
Std: 20.583
Count: 200000.0
Bin: 40
Ch6 (2L)
Mean: 33.822
Std: 21.868
Count: 200000.0
Bin: 43
Ch7 (2R)
Mean: 32.618
Std: 21.005
Count: 200000.0
Bin: 38
Ch8 (3L)
Mean: 38.130
Std: 35.757
Count: 200000.0
Bin: 1650
Ch9 (3R)
Mean: 38.234
Std: 24.597
Count: 200000.0
Bin: 156
Ch10 (4L)
Mean: 27.081
Std: 17.455
Count: 200000.0
Bin: 33
Ch11 (4R)
Mean: 26.928
Std: 17.329
Count: 200000.0
Bin: 32

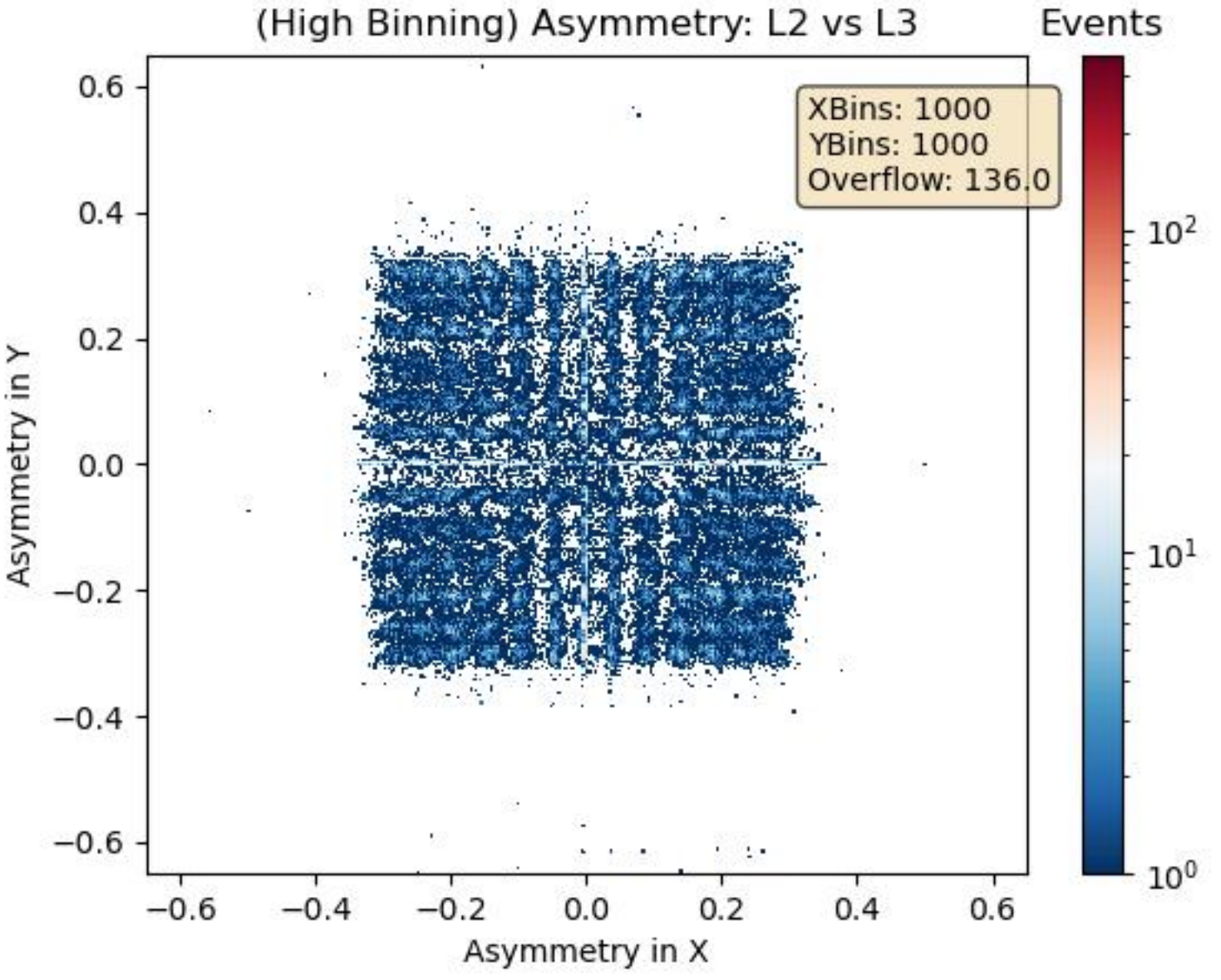

(High Binning) Asymmetry: L1 vs L2
Events
XBins: 1000
YBins: 1000
Overflow: 22.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

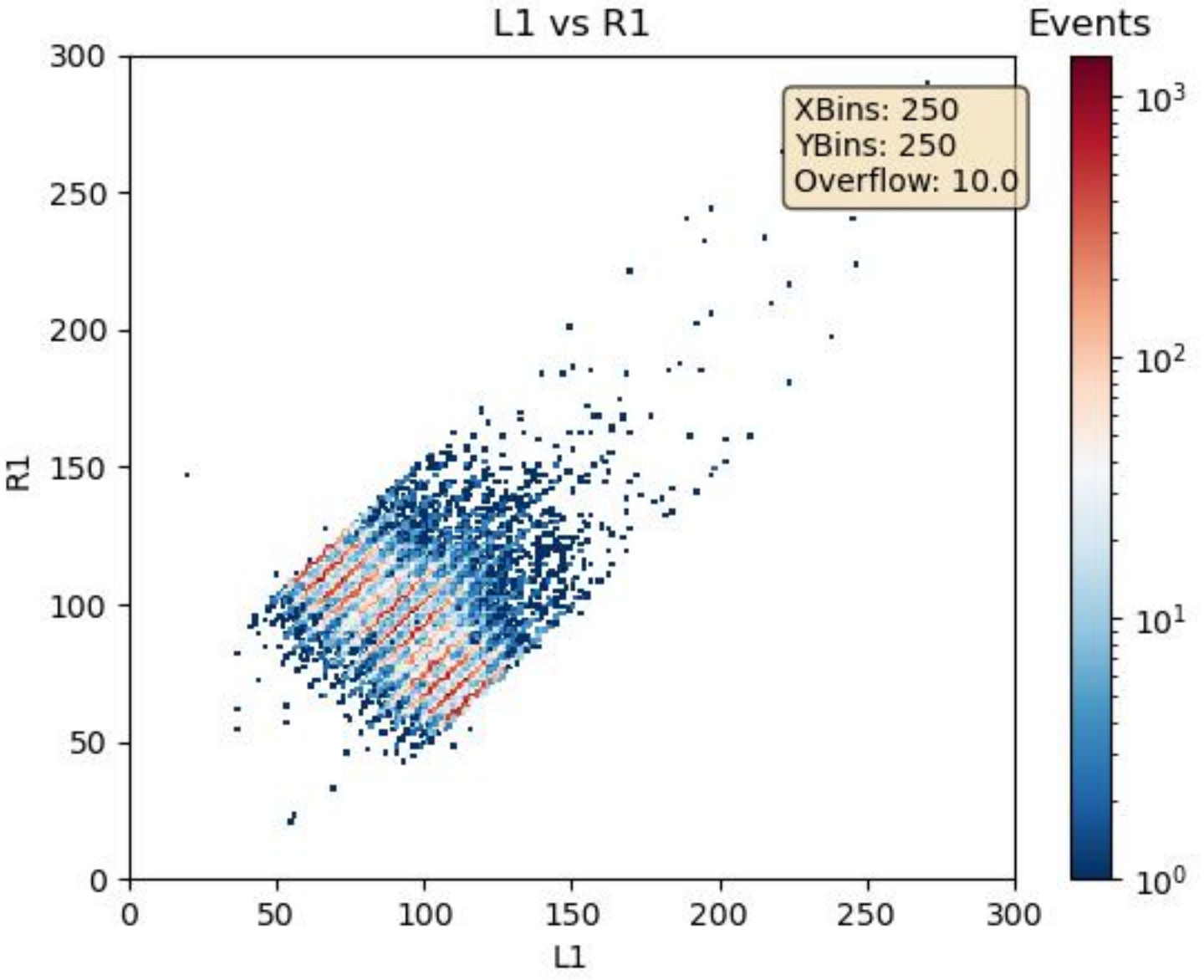

(High Binning) Asymmetry: L3 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 182.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

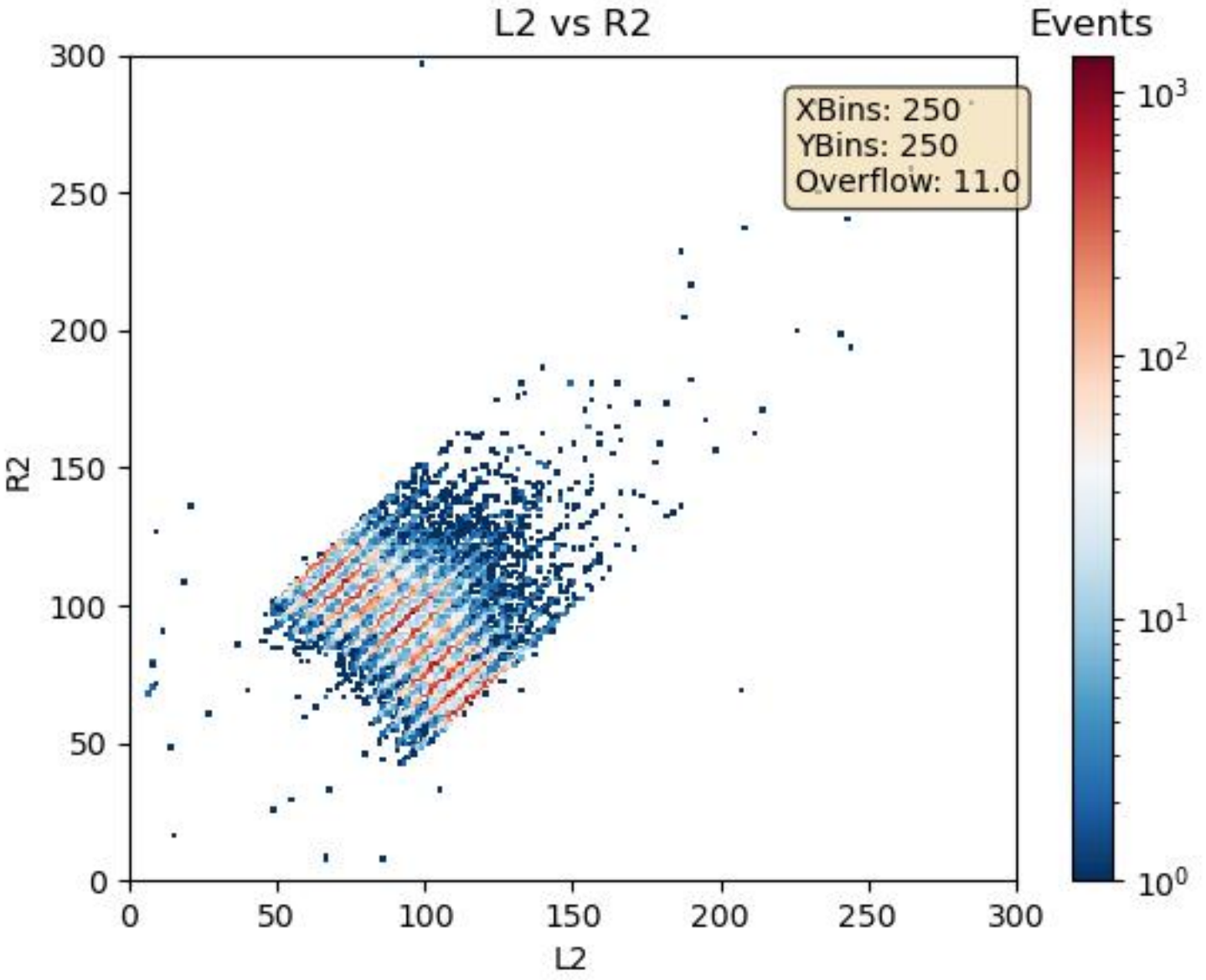

(High Binning) Asymmetry: L1 vs L3
Events
XBins: 1000
YBins: 1000
Overflow: 120.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

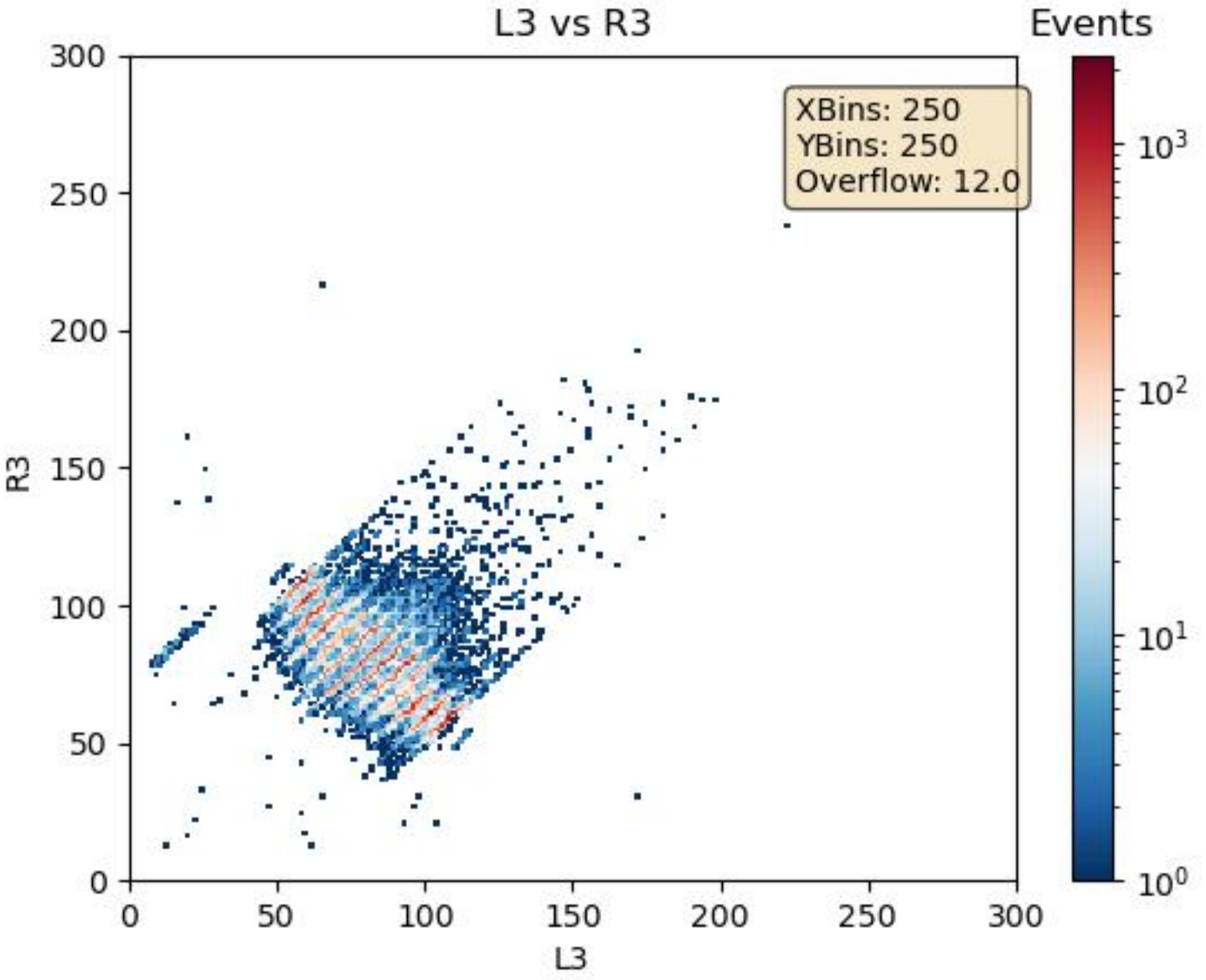

(High Binning) Asymmetry: L2 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 89.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

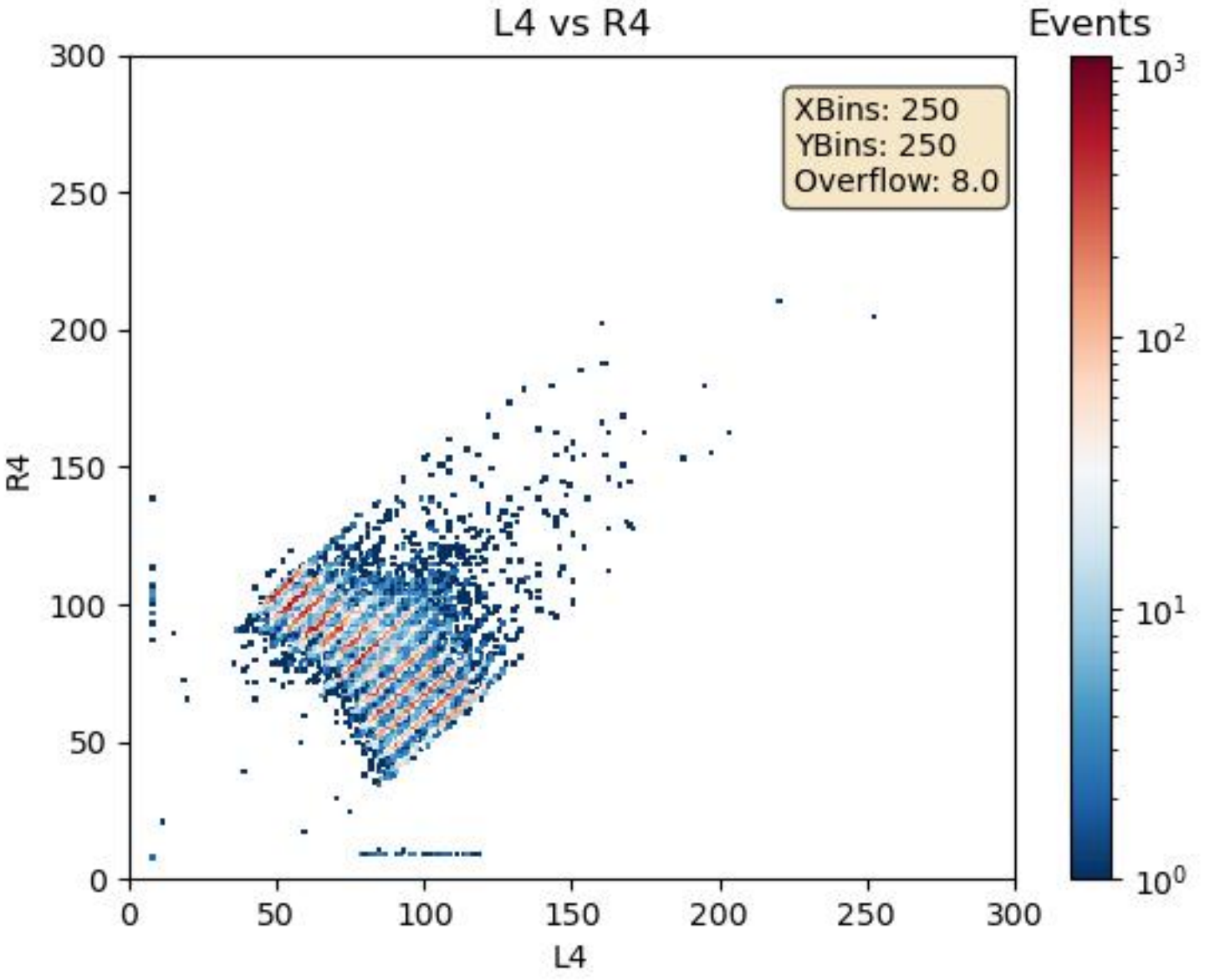

(High Binning) Asymmetry: L1 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 75.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

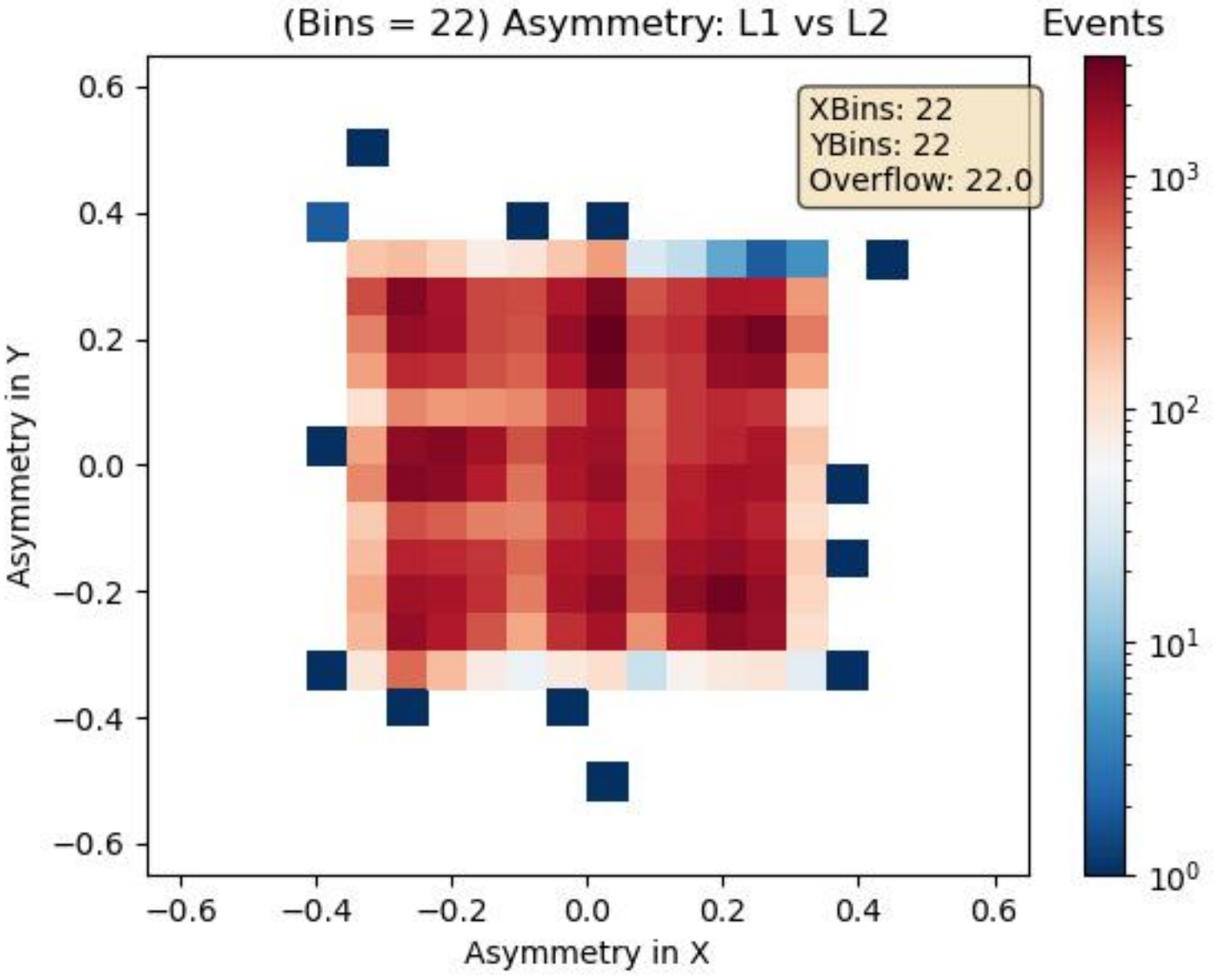

(High Binning) Asymmetry: L2 vs L3
Events
XBins: 1000
YBins: 1000
Overflow: 136.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^2$
$10^1$
$10^0$

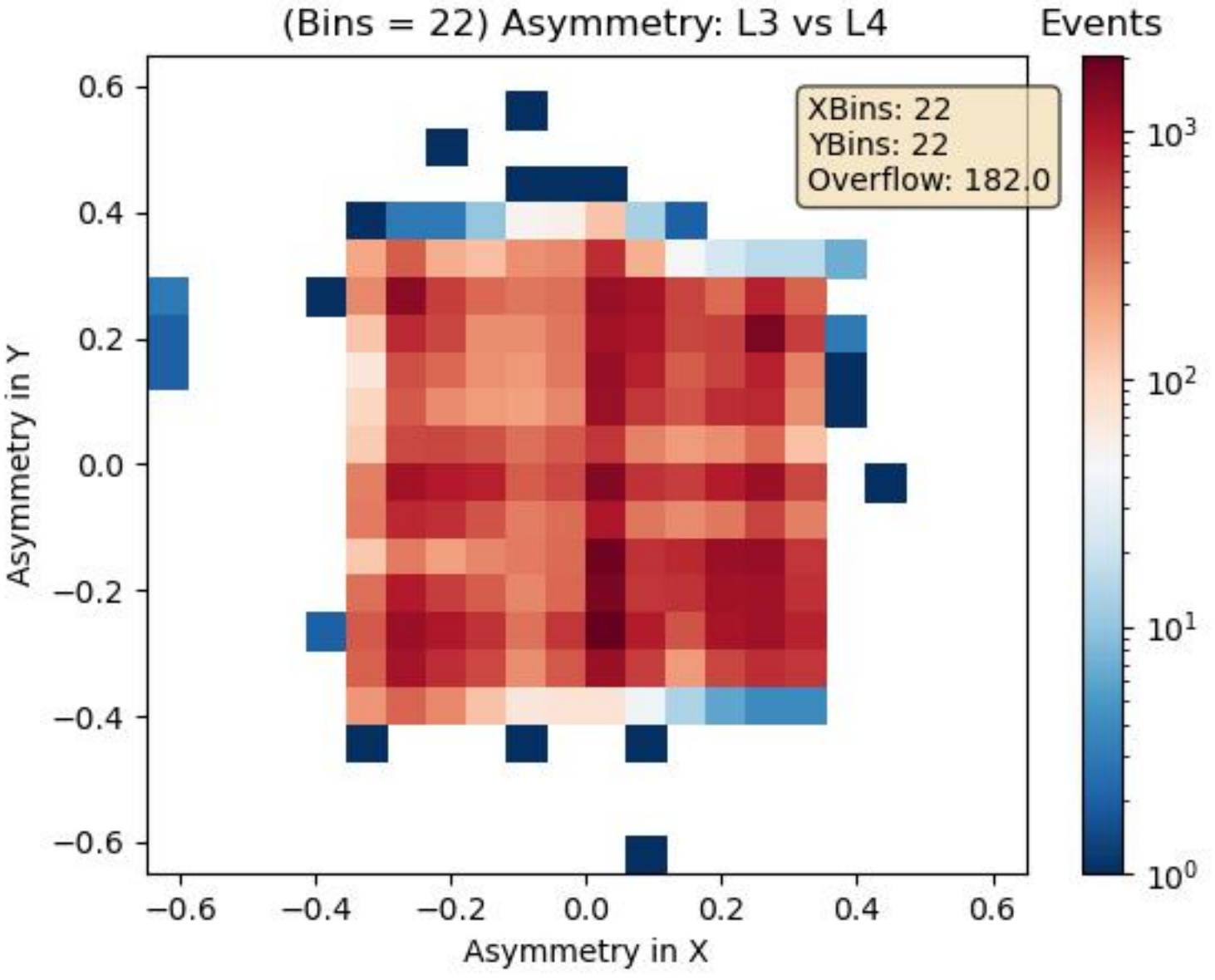

L1 vs R1
Events
XBins: 250
YBins: 250
Overflow: 10.0
R1
L1
0
50
100
150
200
250
300
$10^0$
$10^1$
$10^2$
$10^3$

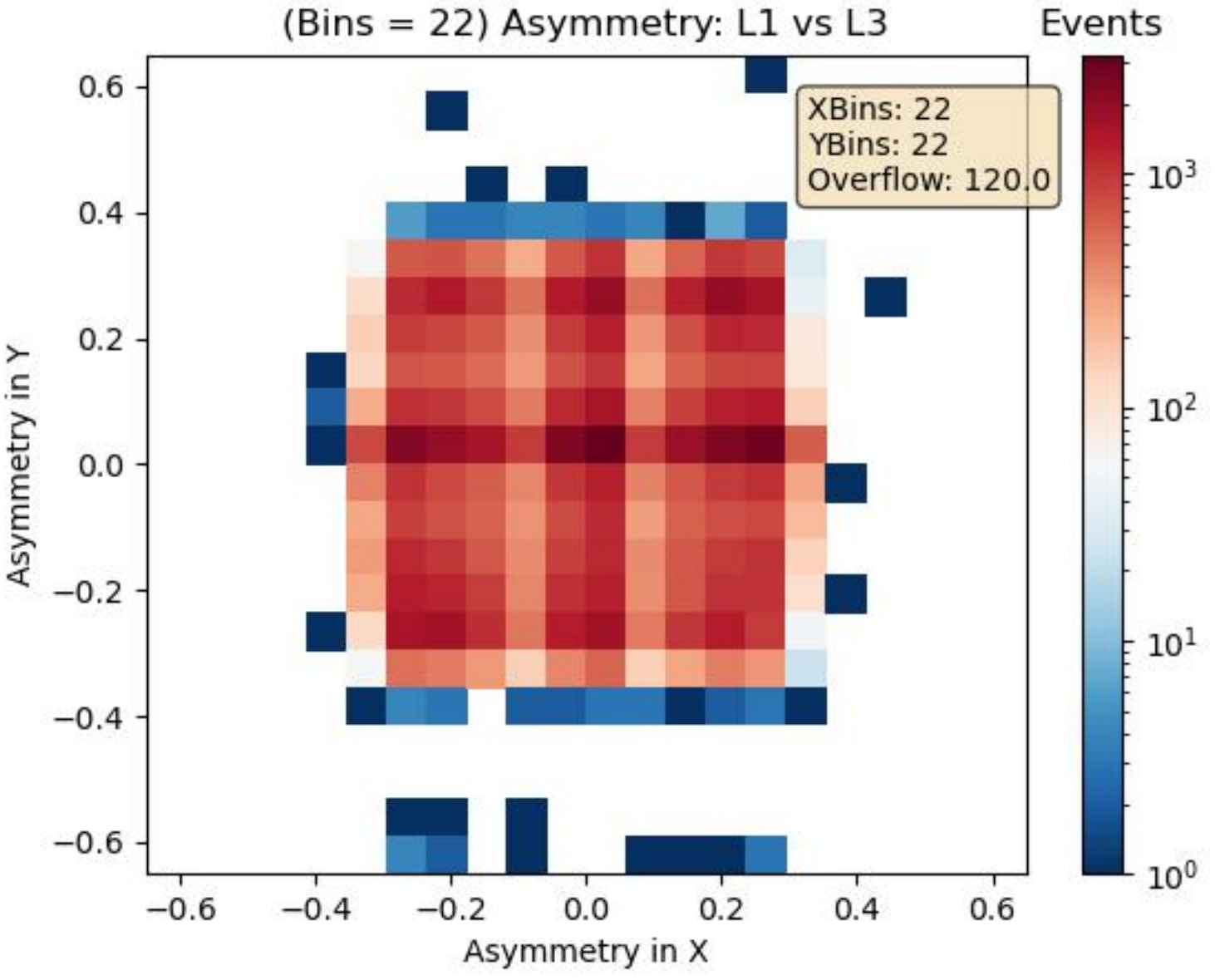

L2 vs R2
Events
XBins: 250
YBins: 250
Overflow: 11.0
R2
L2
0
50
100
150
200
250
300
$10^0$
$10^1$
$10^2$
$10^3$

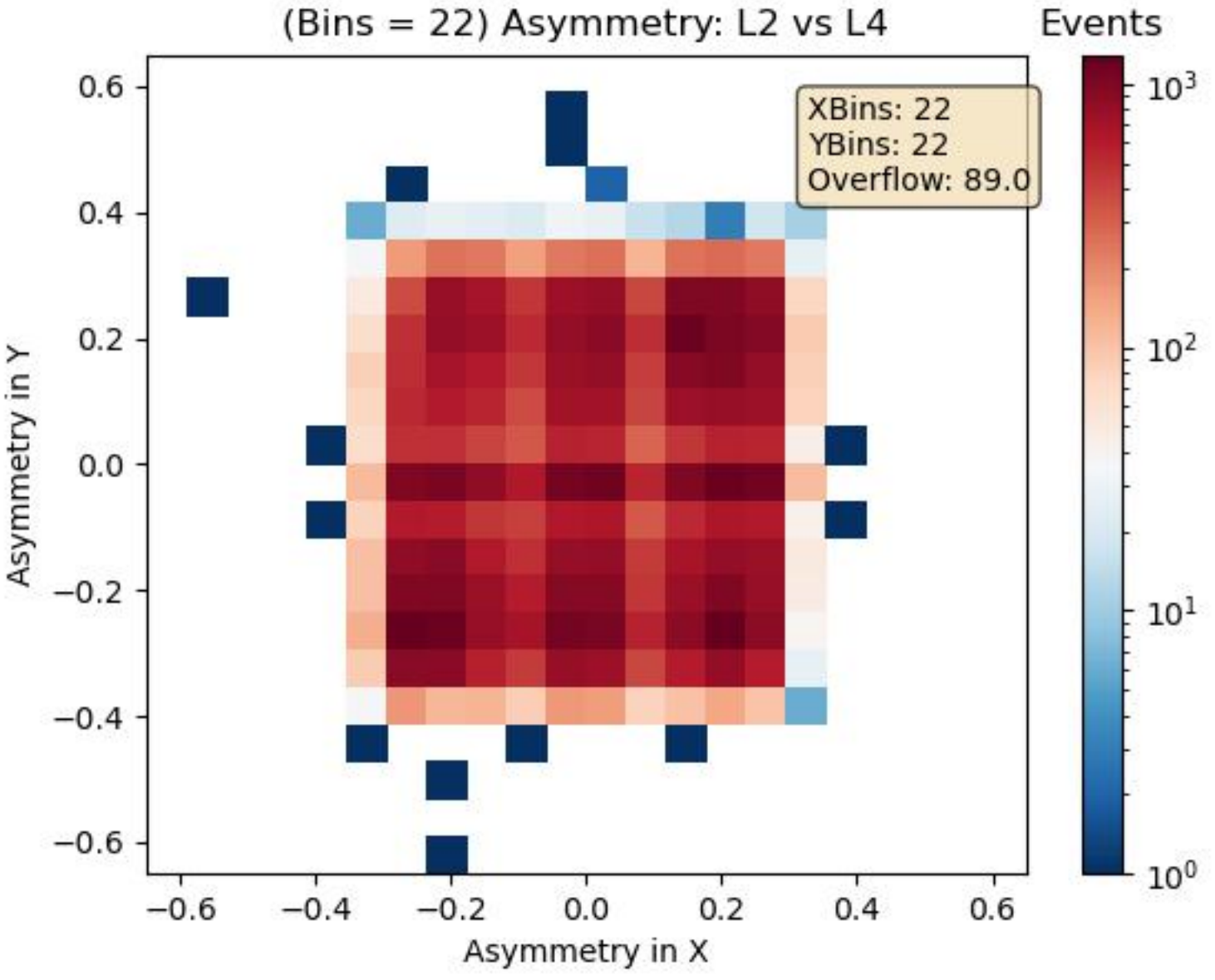

L3 vs R3
Events
XBins: 250
YBins: 250
Overflow: 12.0
R3
L3
0
50
100
150
200
250
300
$10^0$
$10^1$
$10^2$
$10^3$

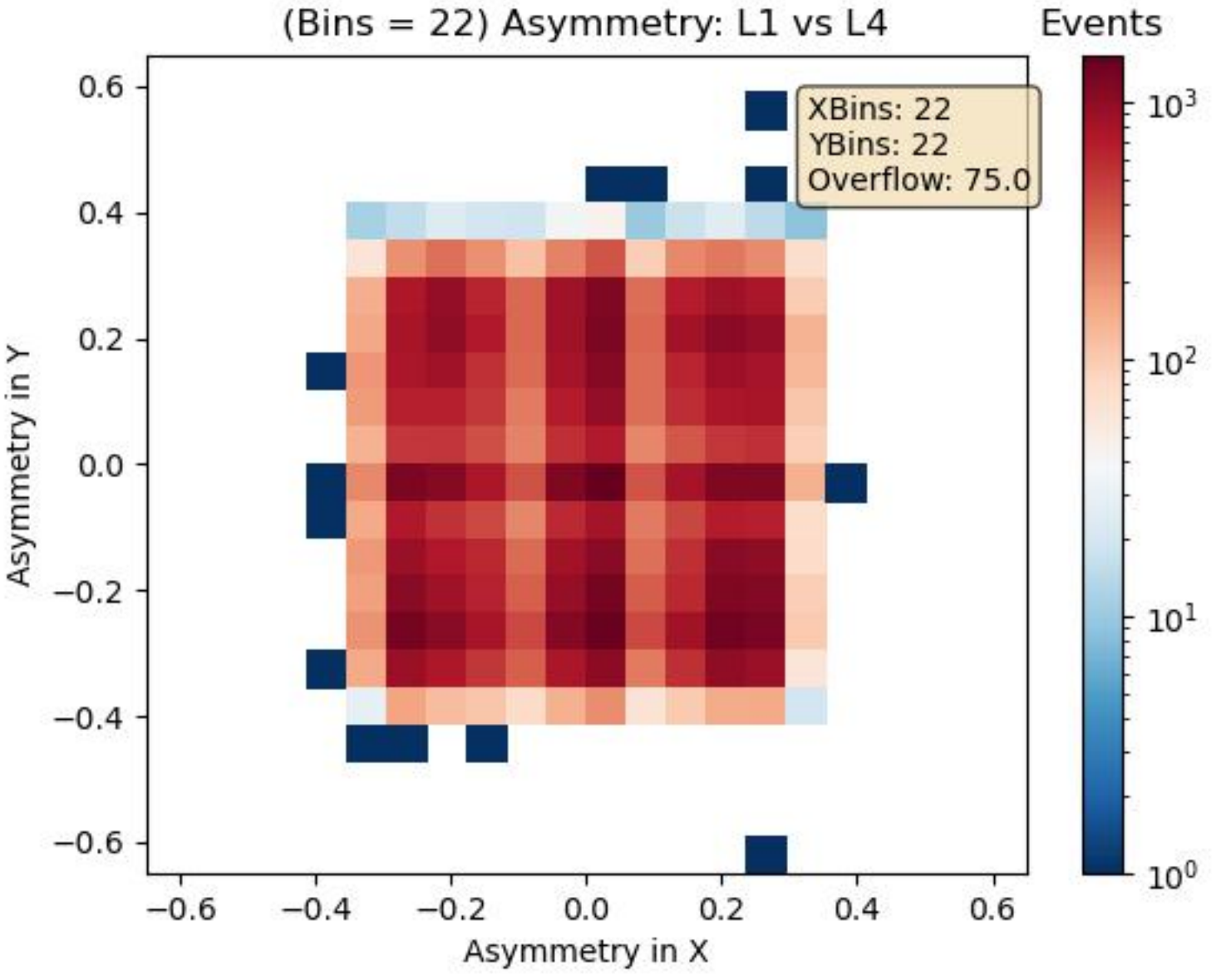

L4 vs R4
Events
XBins: 250
YBins: 250
Overflow: 8.0
R4
L4
0
50
100
150
200
250
300
$10^0$
$10^1$
$10^2$
$10^3$

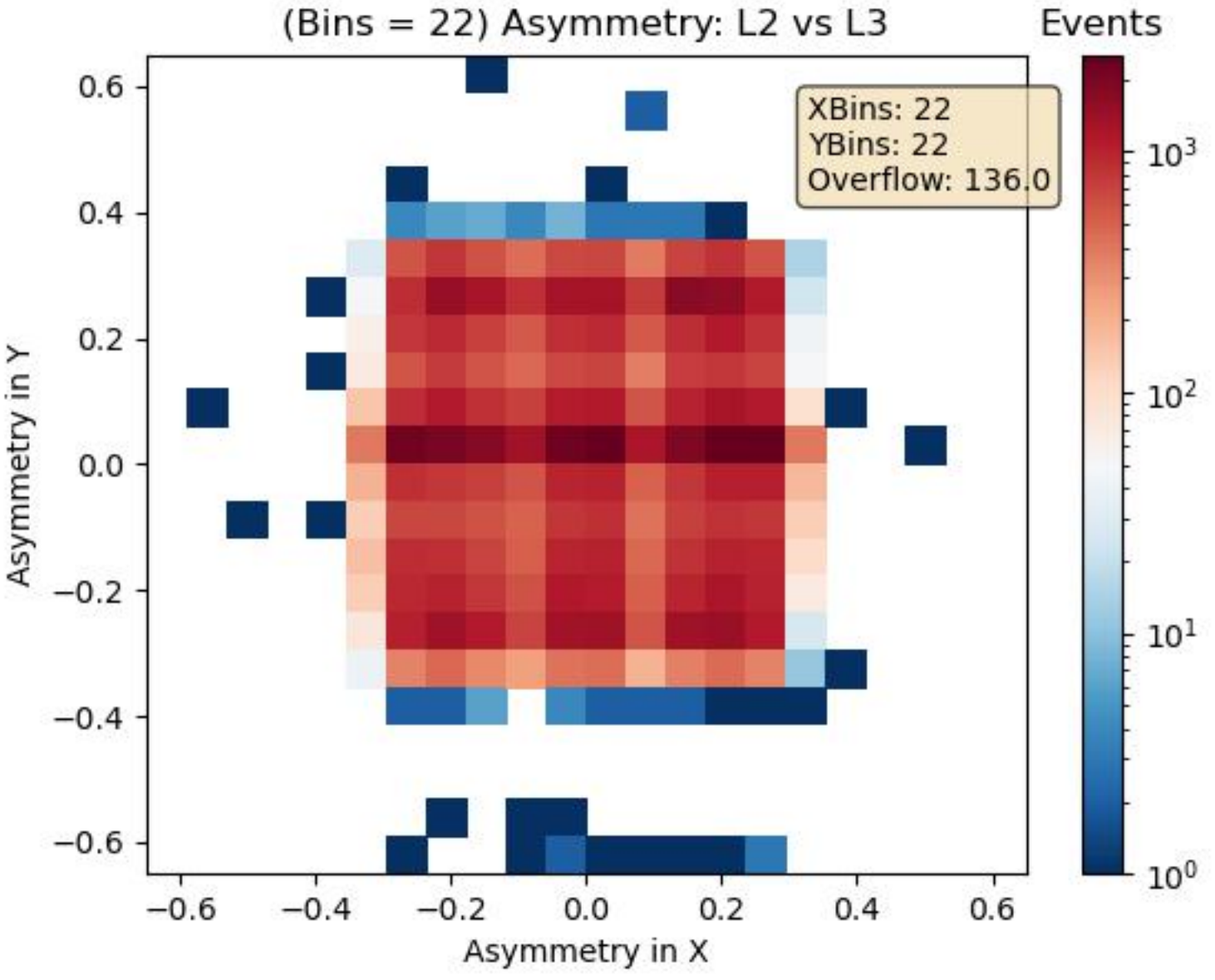

(Bins = 22) Asymmetry: L1 vs L2
Events
XBins: 22
YBins: 22
Overflow: 22.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^3$
$10^2$
$10^1$
$10^0$


(Bins = 22) Asymmetry: L3 vs L4
Events
XBins: 22
YBins: 22
Overflow: 182.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^3$
$10^2$
$10^1$
$10^0$


(Bins = 22) Asymmetry: L1 vs L3
Events
XBins: 22
YBins: 22
Overflow: 120.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^3$
$10^2$
$10^1$
$10^0$


(Bins = 22) Asymmetry: L2 vs L4
Events
XBins: 22
YBins: 22
Overflow: 89.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^3$
$10^2$
$10^1$
$10^0$


(Bins = 22) Asymmetry: L1 vs L4
Events
XBins: 22
YBins: 22
Overflow: 75.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
$10^3$
$10^2$
$10^1$
$10^0$


(Bins = 22) Asymmetry: L2 vs L3
Events
XBins: 22
YBins: 22
Overflow: 136.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
$10^3$
$10^2$
$10^1$
$10^0$