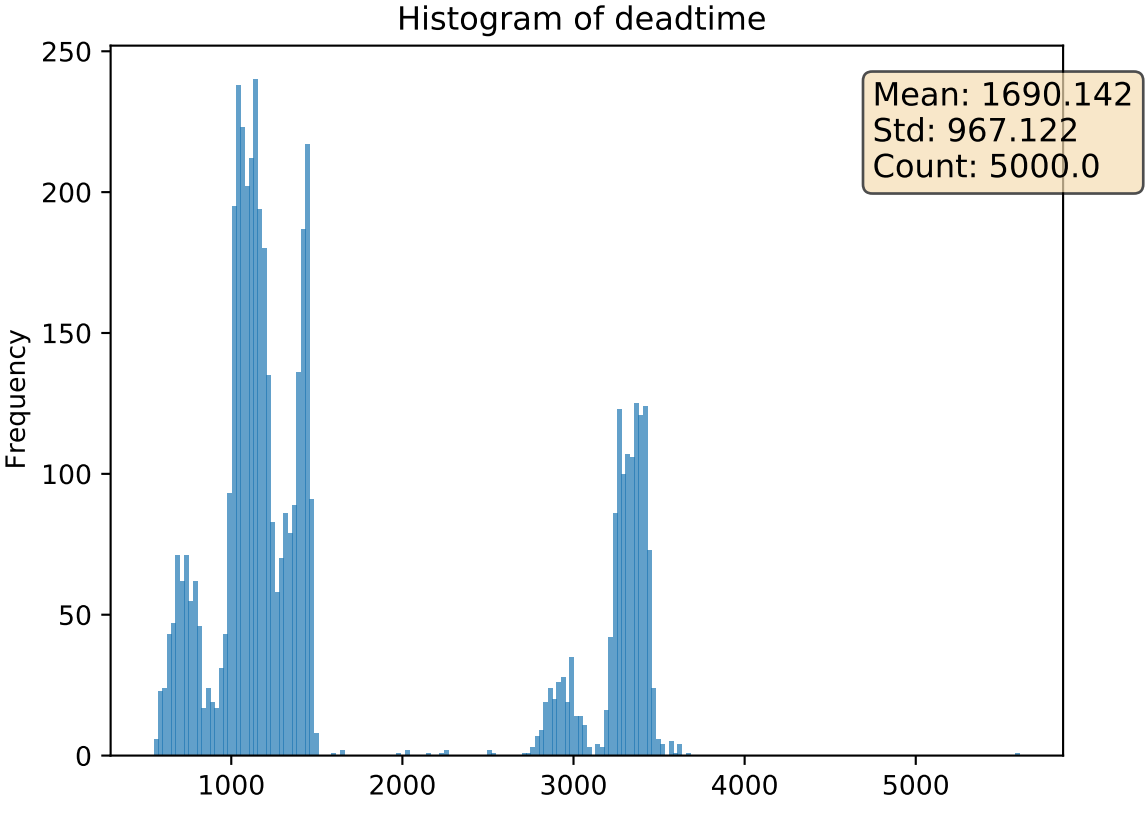
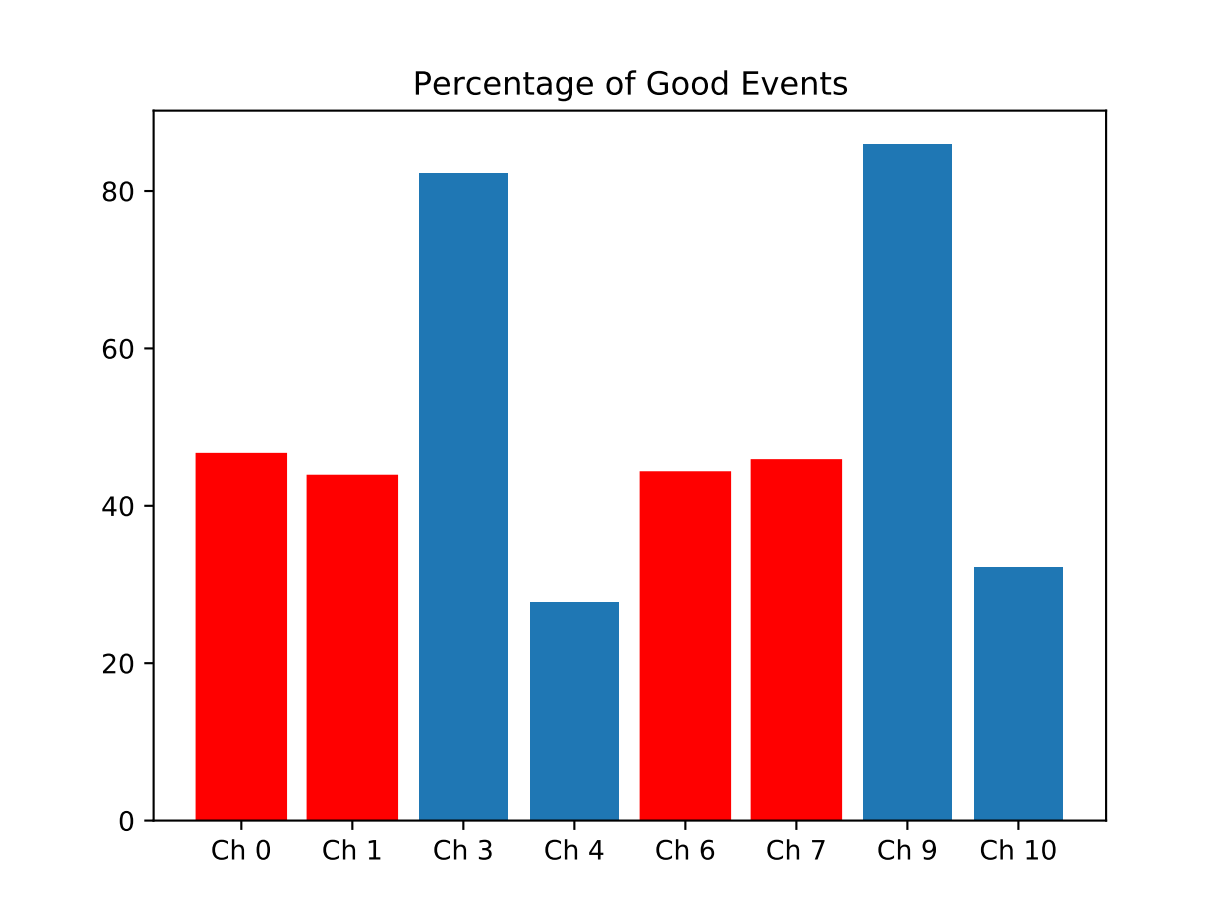
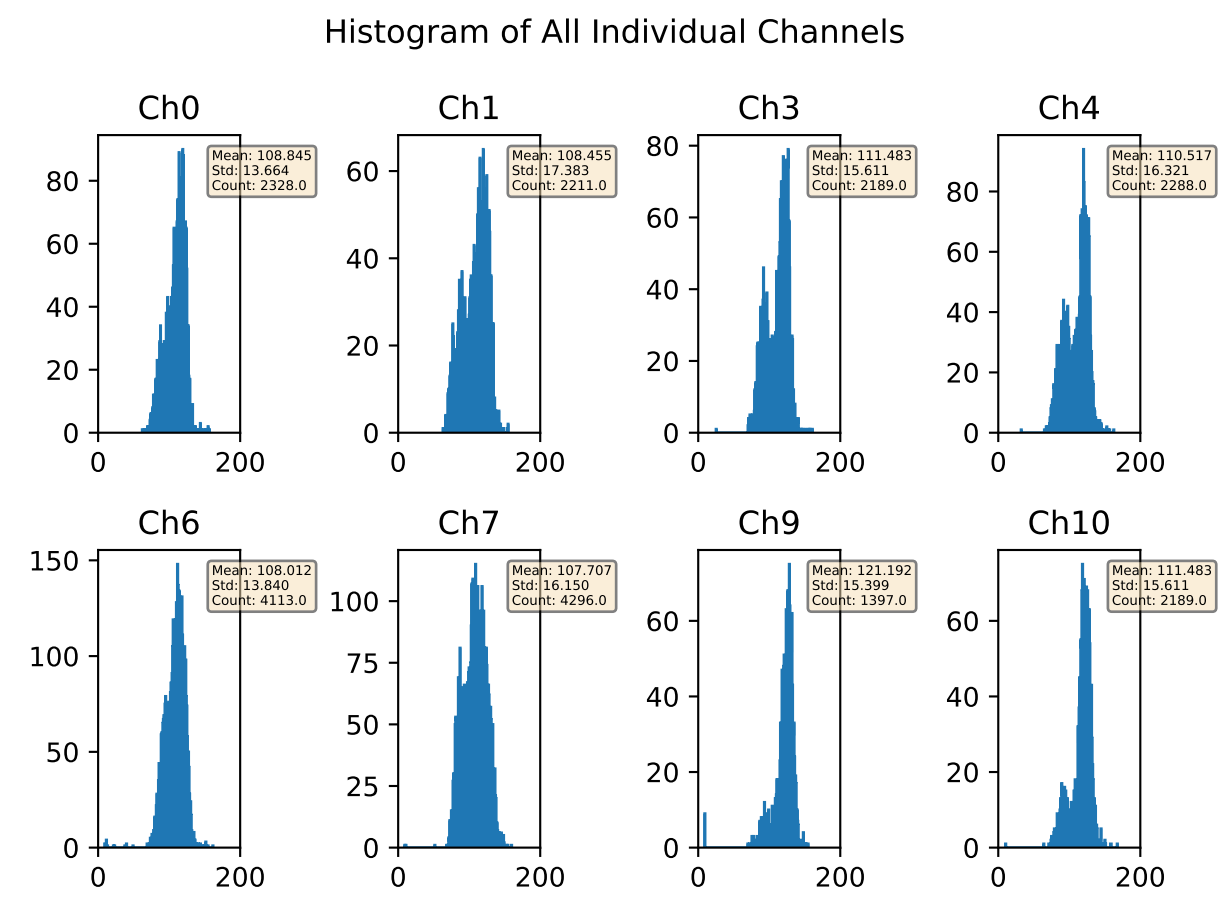
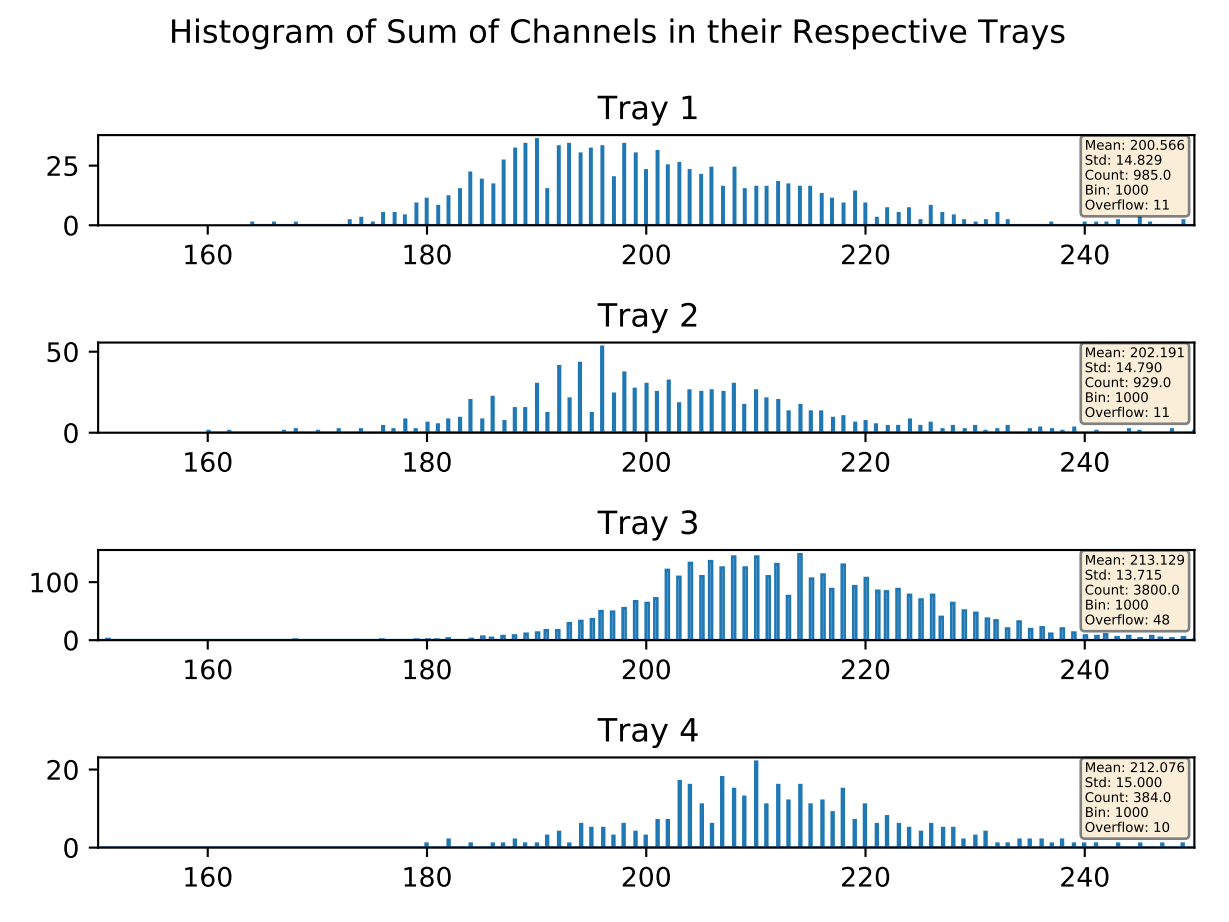
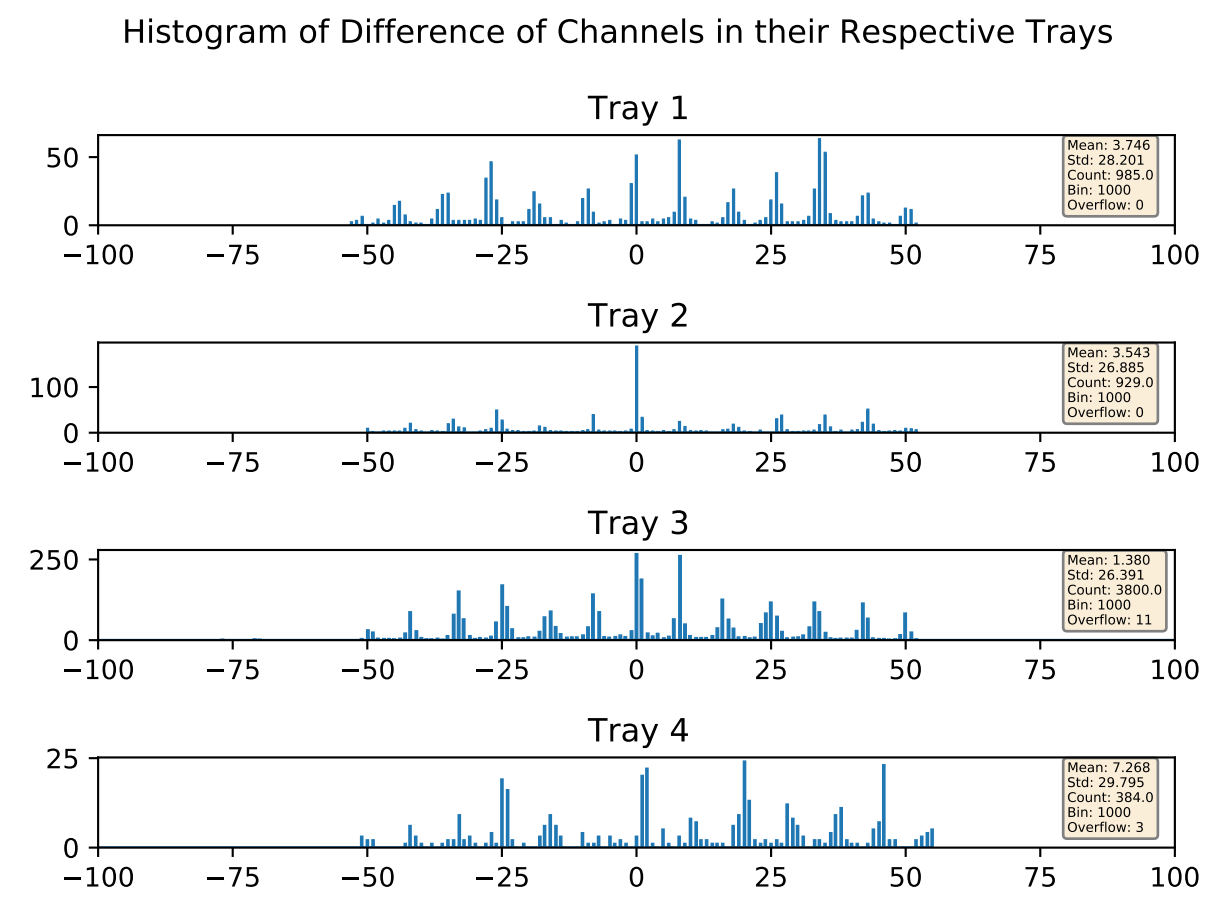
Analysis of Run: 800
Time Created: 2020-11-19 19:25:41.606331

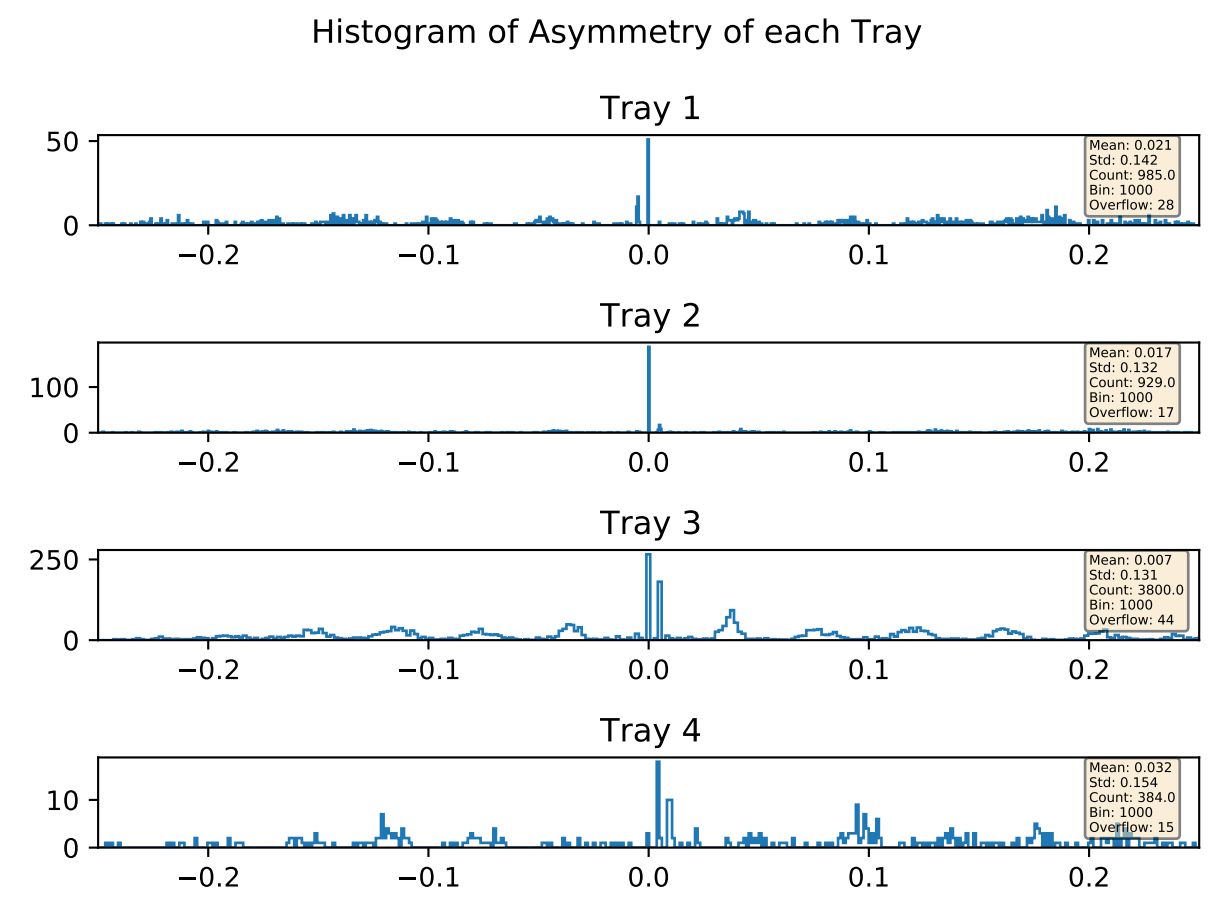

Histogram of deadtime
Mean: 1690.142
Std: 967.122
Count: 5000.0
Frequency
250
200
150
100
50
0
1000
2000
3000
4000
5000

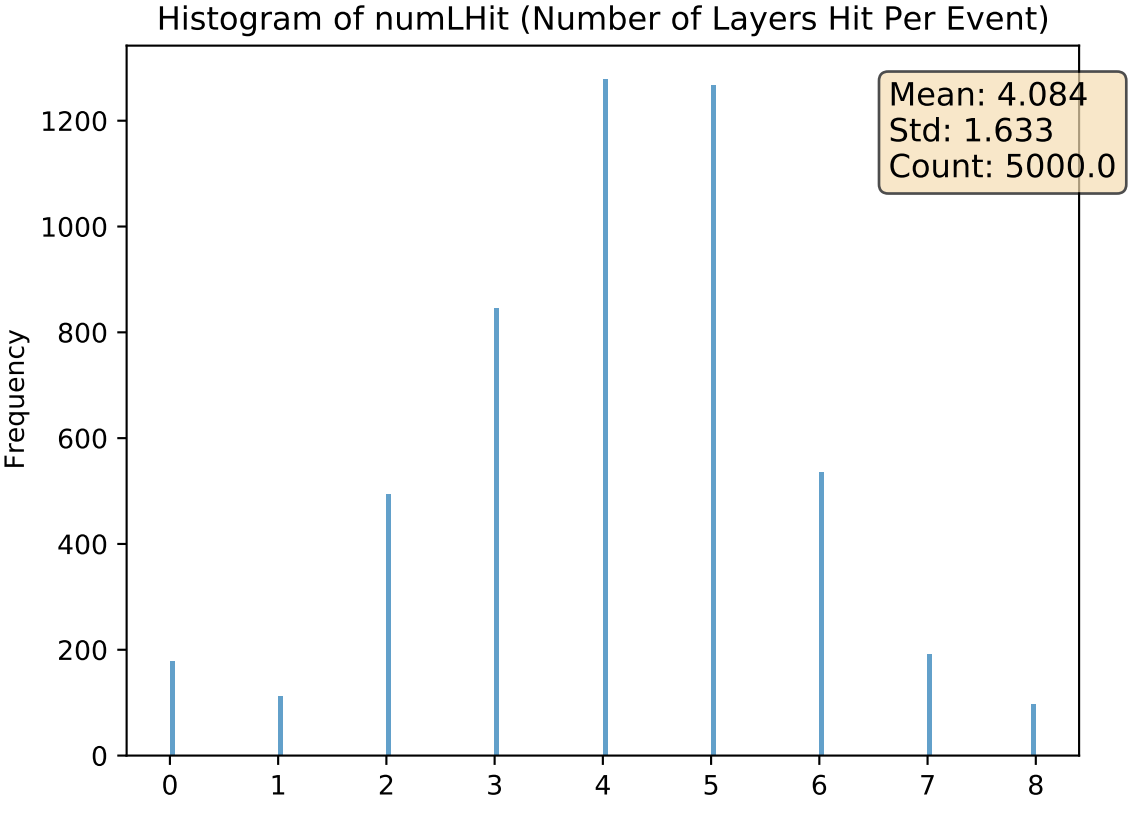

Percentage of Good Events
0
20
40
60
80
Ch 0
Ch 1
Ch 3
Ch 4
Ch 6
Ch 7
Ch 9
Ch 10

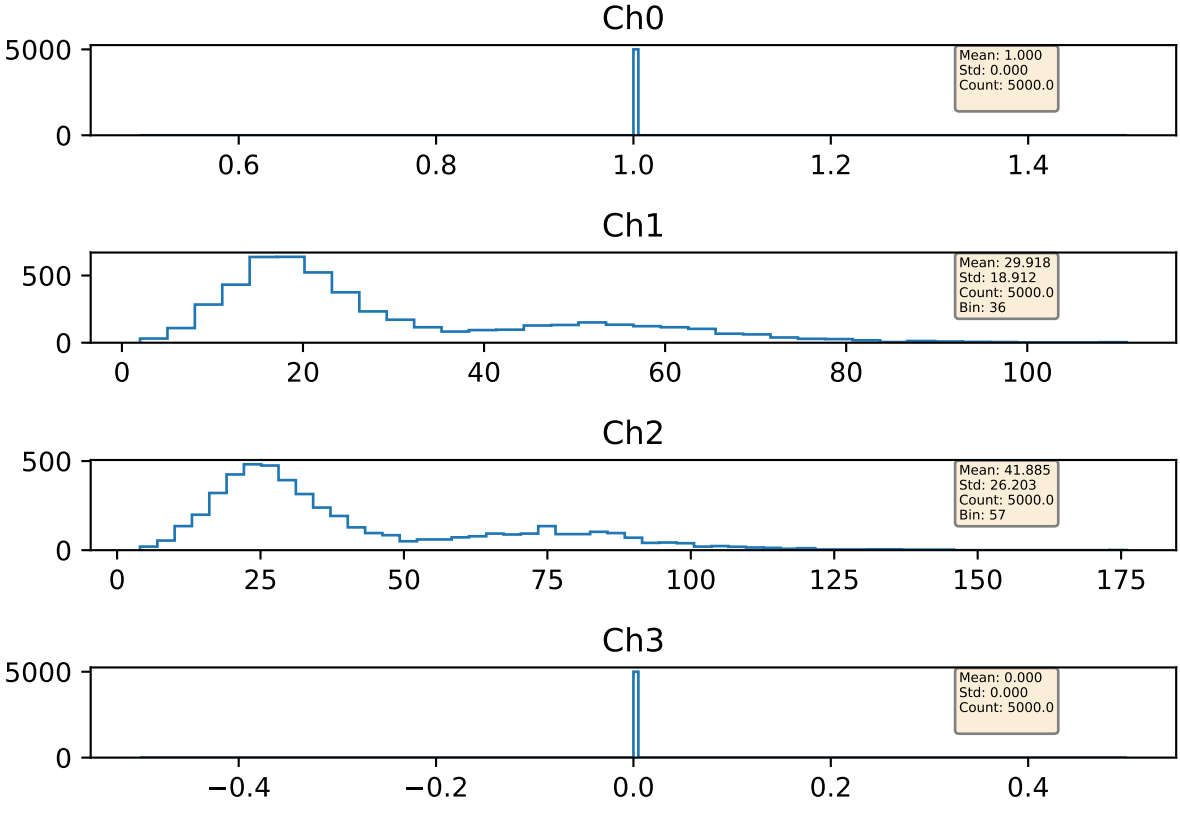

Histogram of All Individual Channels
Ch0
Mean: 108.845
Std: 13.664
Count: 2328.0
Ch1
Mean: 108.455
Std: 17.383
Count: 2211.0
Ch3
Mean: 111.483
Std: 15.611
Count: 2189.0
Ch4
Mean: 110.517
Std: 16.321
Count: 2288.0
Ch6
Mean: 108.012
Std: 13.840
Count: 4113.0
Ch7
Mean: 107.707
Std: 16.150
Count: 4296.0
Ch9
Mean: 121.192
Std: 15.399
Count: 1397.0
Ch10
Mean: 111.483
Std: 15.611
Count: 2189.0

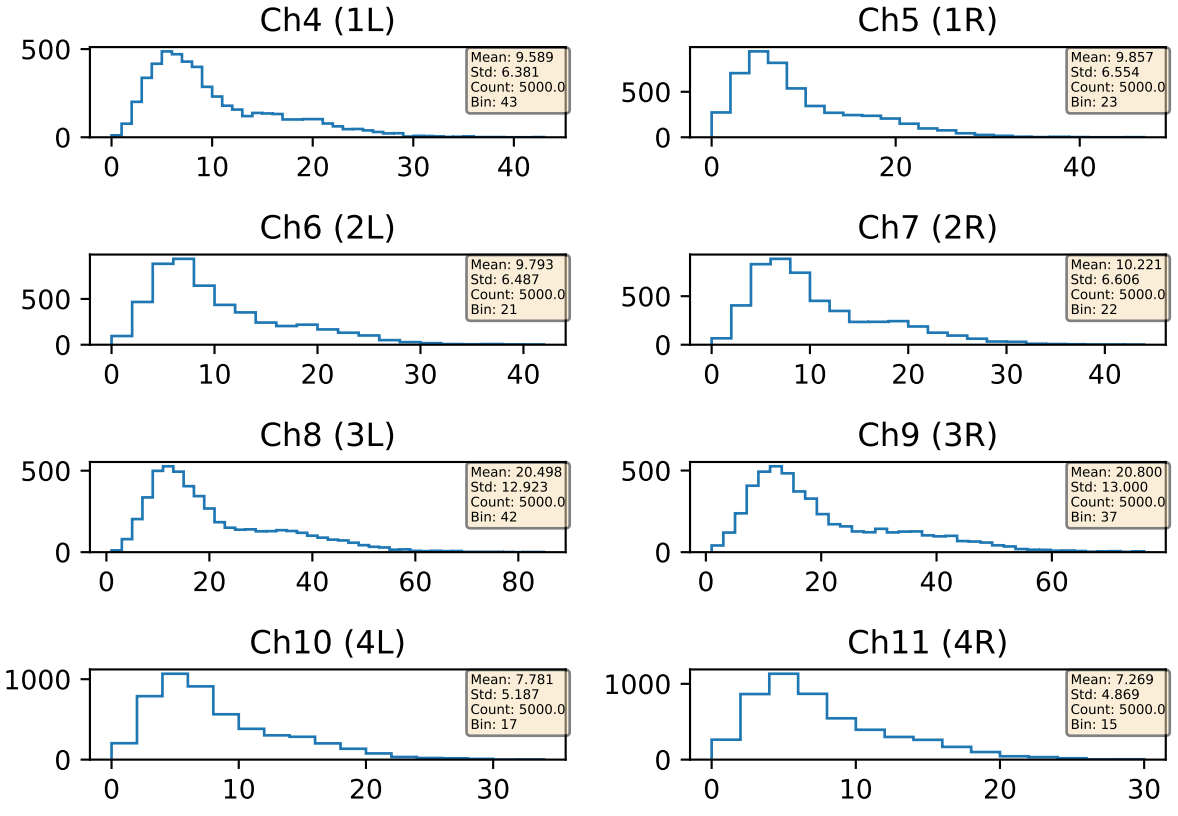

Histogram of Sum of Channels in their Respective Trays
Tray 1
Mean: 200.566
Std: 14.829
Count: 985.0
Bin: 1000
Overflow: 11
Tray 2
Mean: 202.191
Std: 14.790
Count: 929.0
Bin: 1000
Overflow: 11
Tray 3
Mean: 213.129
Std: 13.715
Count: 3800.0
Bin: 1000
Overflow: 48
Tray 4
Mean: 212.076
Std: 15.000
Count: 384.0
Bin: 1000
Overflow: 10
160
180
200
220
240

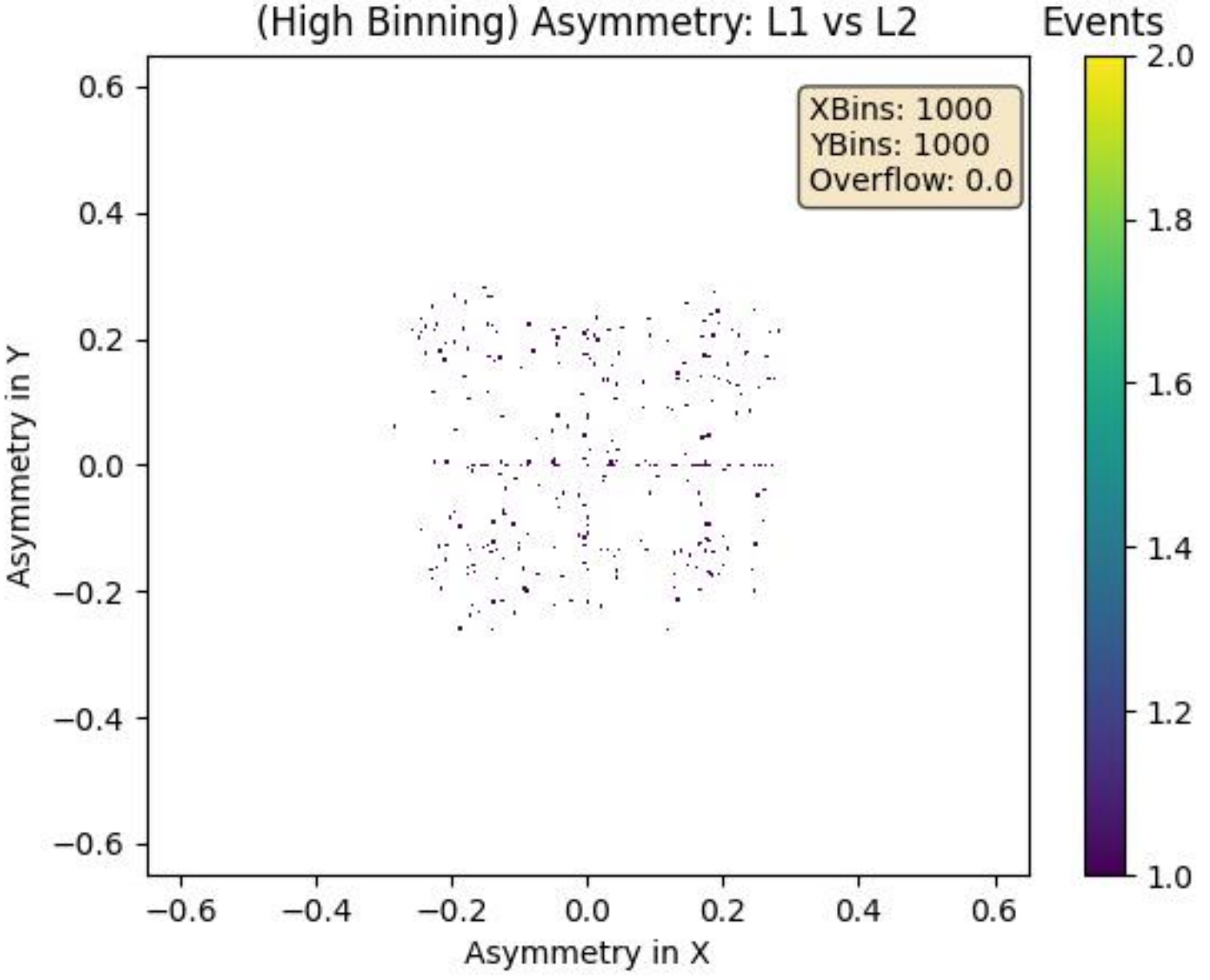

Histogram of Difference of Channels in their Respective Trays
Tray 1
Mean: 3.746
Std: 28.201
Count: 985.0
Bin: 1000
Overflow: 0
Tray 2
Mean: 3.543
Std: 26.885
Count: 929.0
Bin: 1000
Overflow: 0
Tray 3
Mean: 1.380
Std: 26.391
Count: 3800.0
Bin: 1000
Overflow: 11
Tray 4
Mean: 7.268
Std: 29.795
Count: 384.0
Bin: 1000
Overflow: 3

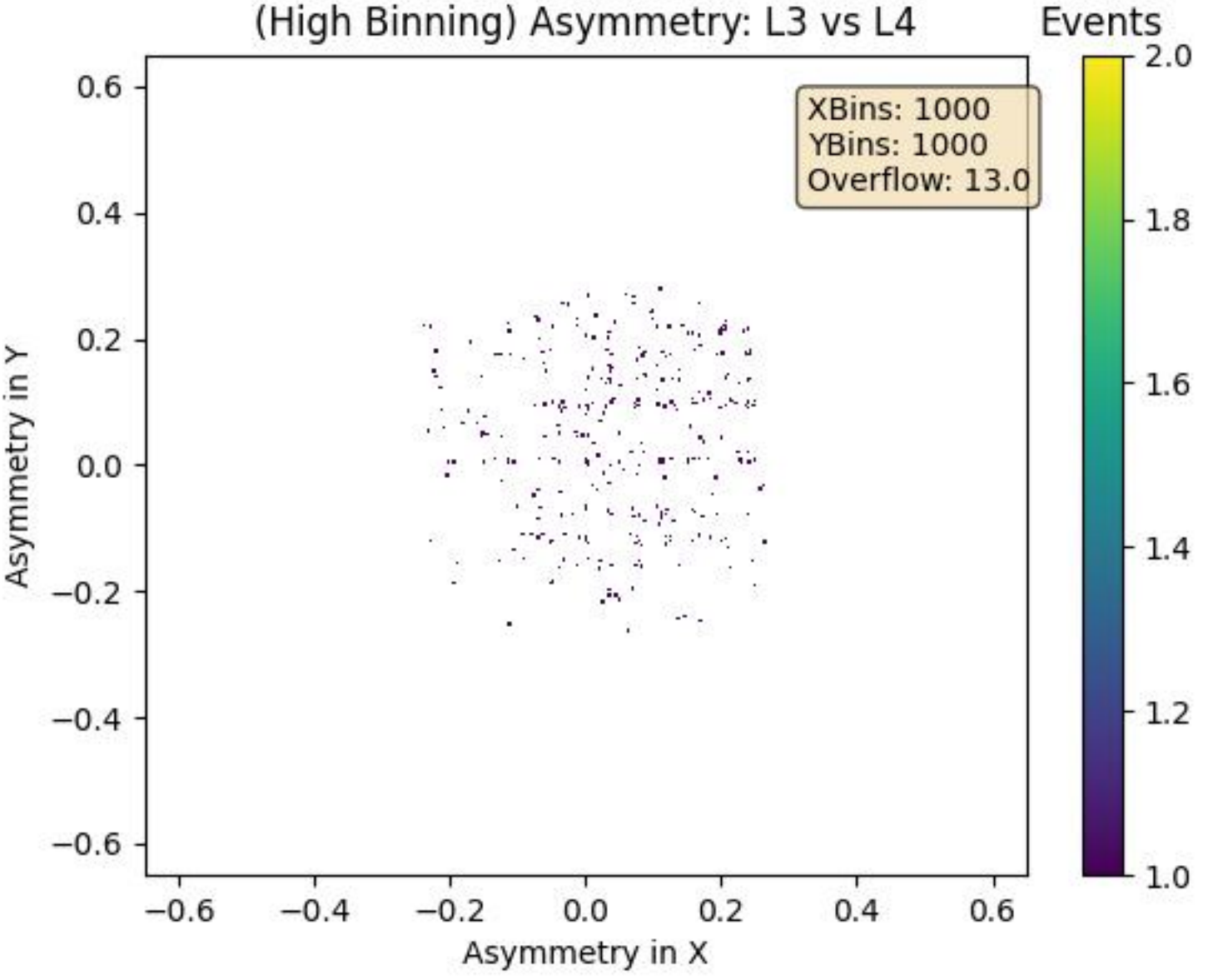

Histogram of Asymmetry of each Tray
Tray 1
Mean: 0.021
Std: 0.142
Count: 985.0
Bin: 1000
Overflow: 28
Tray 2
Mean: 0.017
Std: 0.132
Count: 929.0
Bin: 1000
Overflow: 17
Tray 3
Mean: 0.007
Std: 0.131
Count: 3800.0
Bin: 1000
Overflow: 44
Tray 4
Mean: 0.032
Std: 0.154
Count: 384.0
Bin: 1000
Overflow: 15

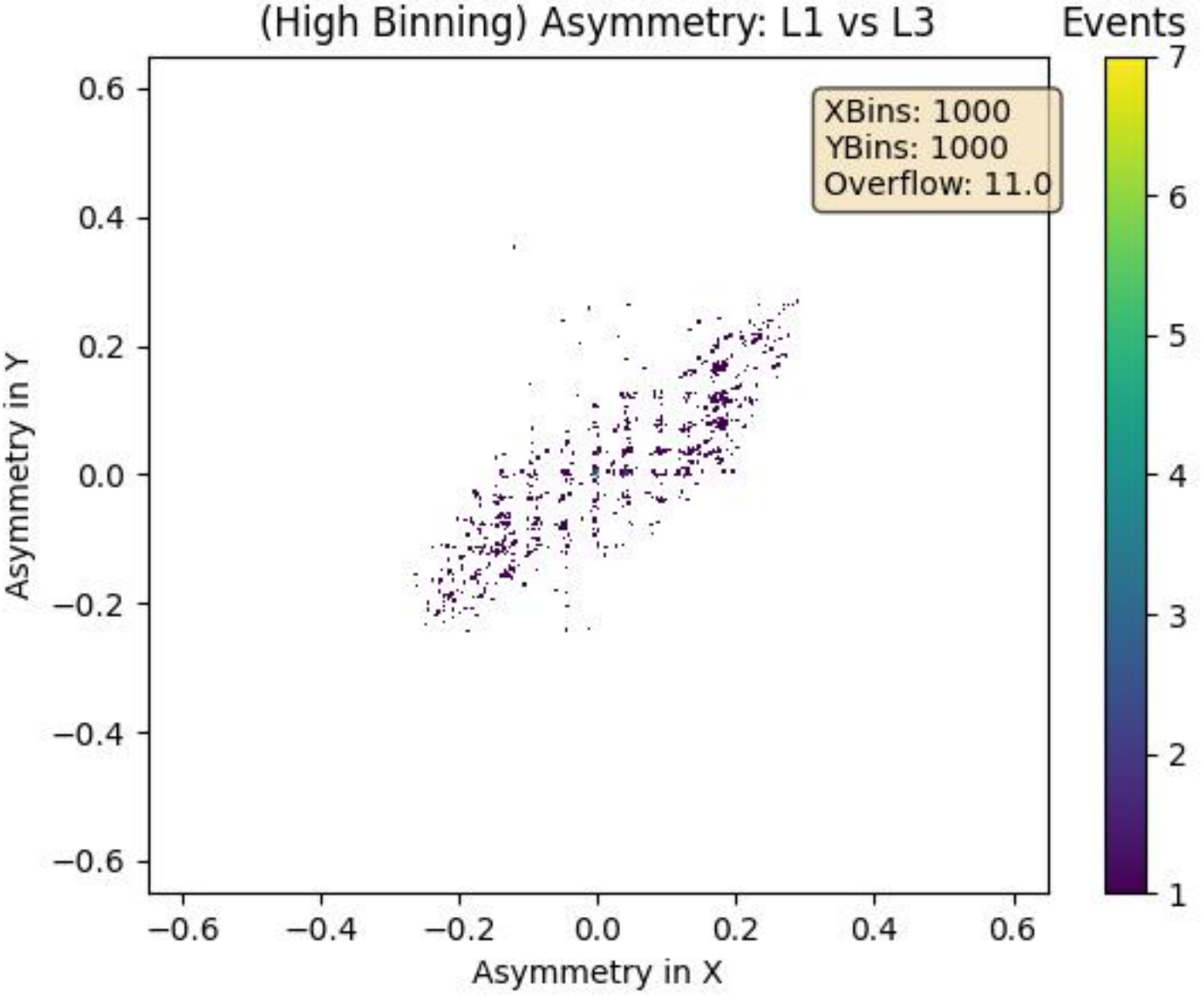

Histogram of numLHit (Number of Layers Hit Per Event)
Mean: 4.084
Std: 1.633
Count: 5000.0
Frequency
0
200
400
600
800
1000
1200
0
1
2
3
4
5
6
7
8

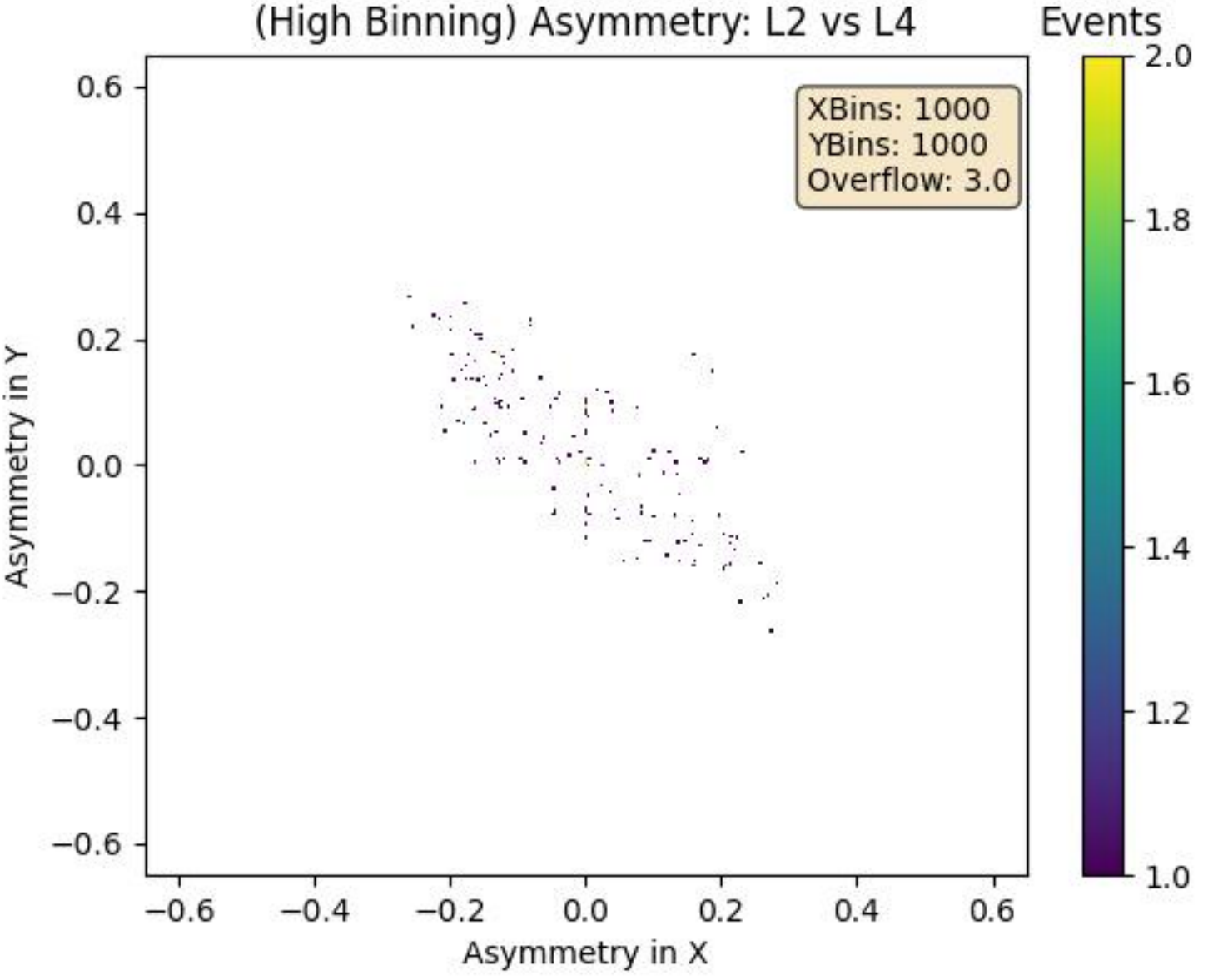

Histogram of Scaler Readings (Ch 0 - 3)
Ch0
Mean: 1.000
Std: 0.000
Count: 5000.0
5000
0
0.6
0.8
1.0
1.2
1.4
Ch1
Mean: 29.918
Std: 18.912
Count: 5000.0
Bin: 36
500
0
0
20
40
60
80
100
Ch2
Mean: 41.885
Std: 26.203
Count: 5000.0
Bin: 57
500
0
0
25
50
75
100
125
150
175
Ch3
Mean: 0.000
Std: 0.000
Count: 5000.0
5000
0
−0.4
−0.2
0.0
0.2
0.4

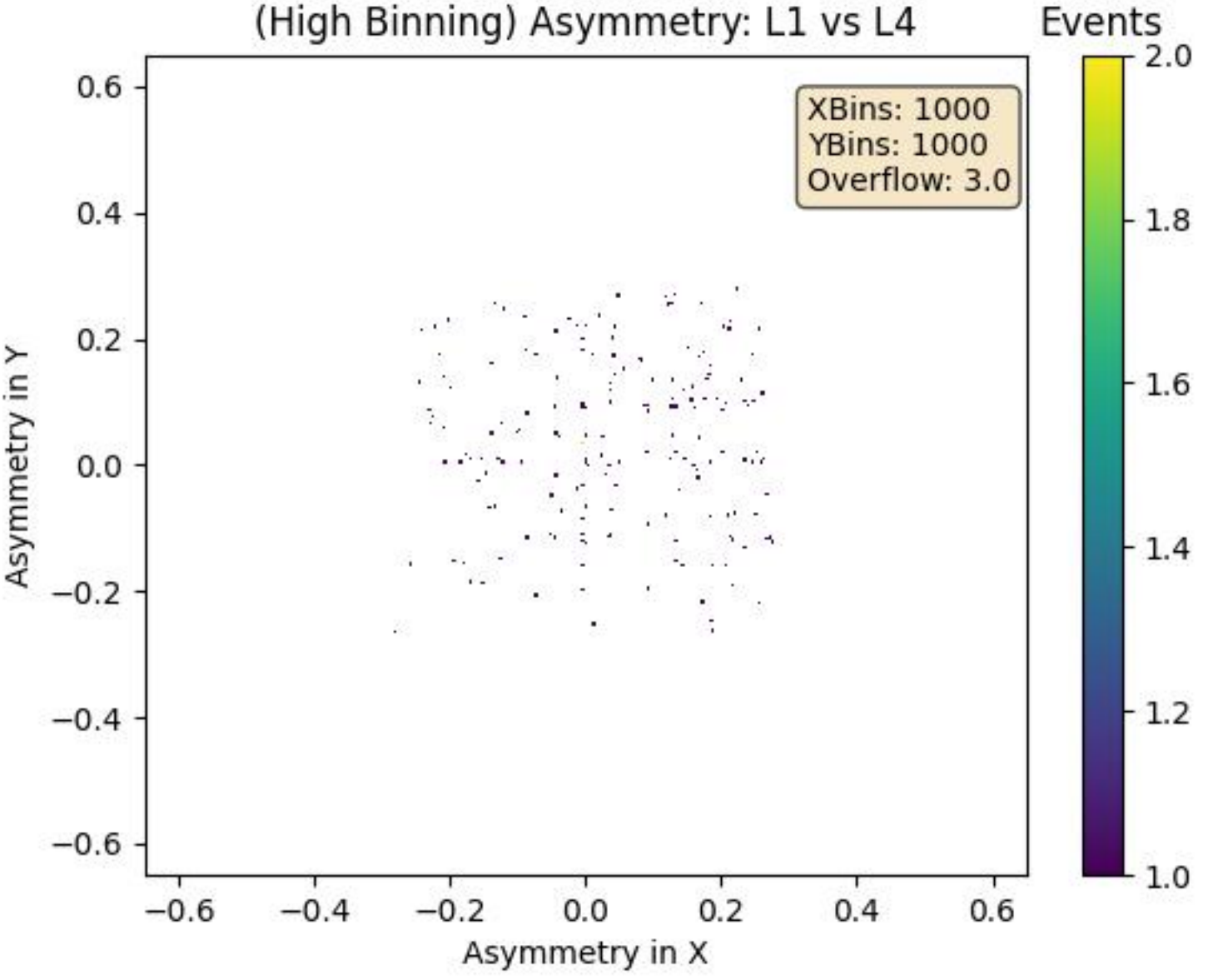

Histogram of Scaler Readings (Ch 4 - 11)
Ch4 (1L)
Mean: 9.589
Std: 6.381
Count: 5000.0
Bin: 43
Ch5 (1R)
Mean: 9.857
Std: 6.554
Count: 5000.0
Bin: 23
Ch6 (2L)
Mean: 9.793
Std: 6.487
Count: 5000.0
Bin: 21
Ch7 (2R)
Mean: 10.221
Std: 6.606
Count: 5000.0
Bin: 22
Ch8 (3L)
Mean: 20.498
Std: 12.923
Count: 5000.0
Bin: 42
Ch9 (3R)
Mean: 20.800
Std: 13.000
Count: 5000.0
Bin: 37
Ch10 (4L)
Mean: 7.781
Std: 5.187
Count: 5000.0
Bin: 17
Ch11 (4R)
Mean: 7.269
Std: 4.869
Count: 5000.0
Bin: 15

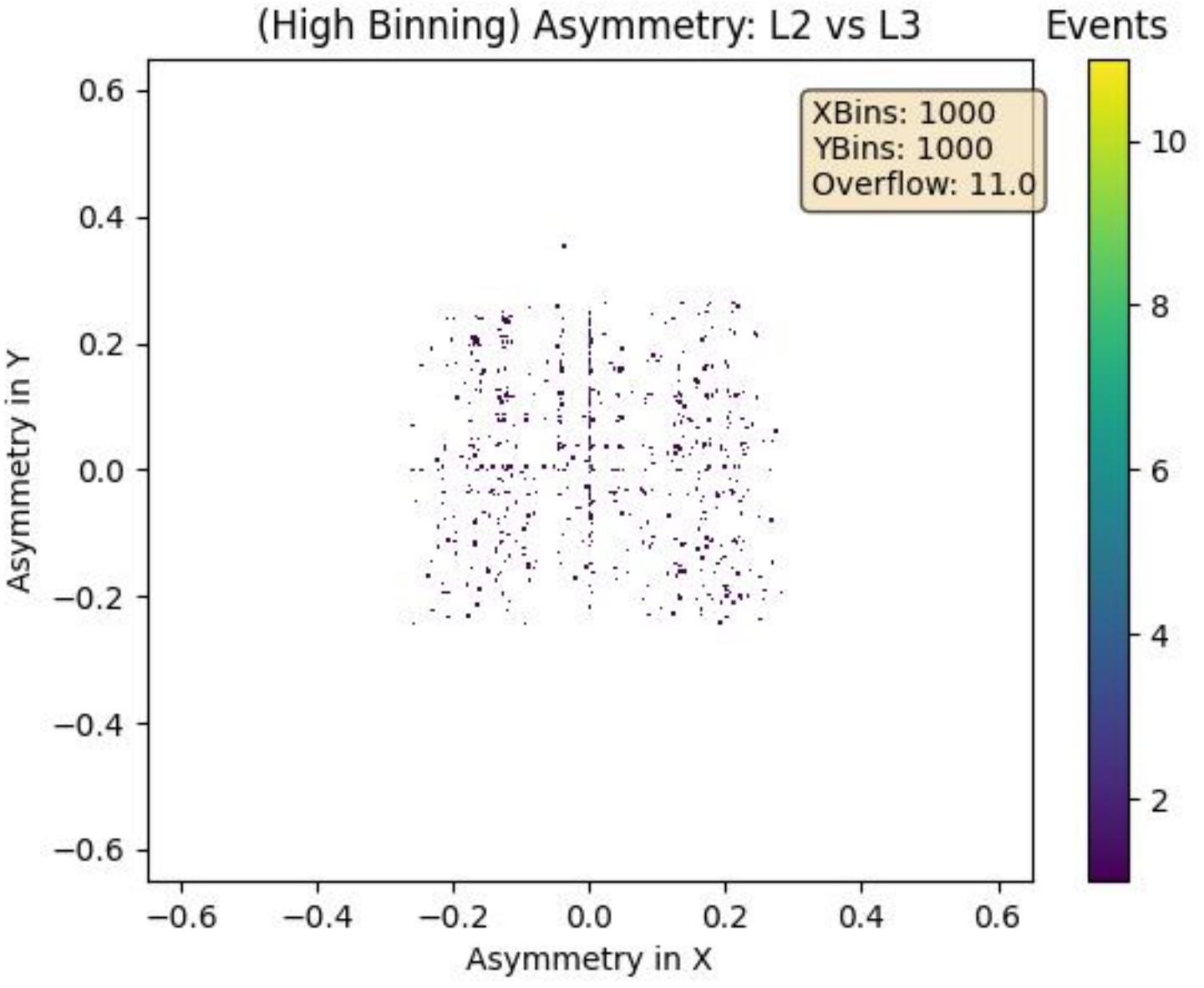

(High Binning) Asymmetry: L1 vs L2
Events
XBins: 1000
YBins: 1000
Overflow: 0.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
2.0
1.8
1.6
1.4
1.2
1.0

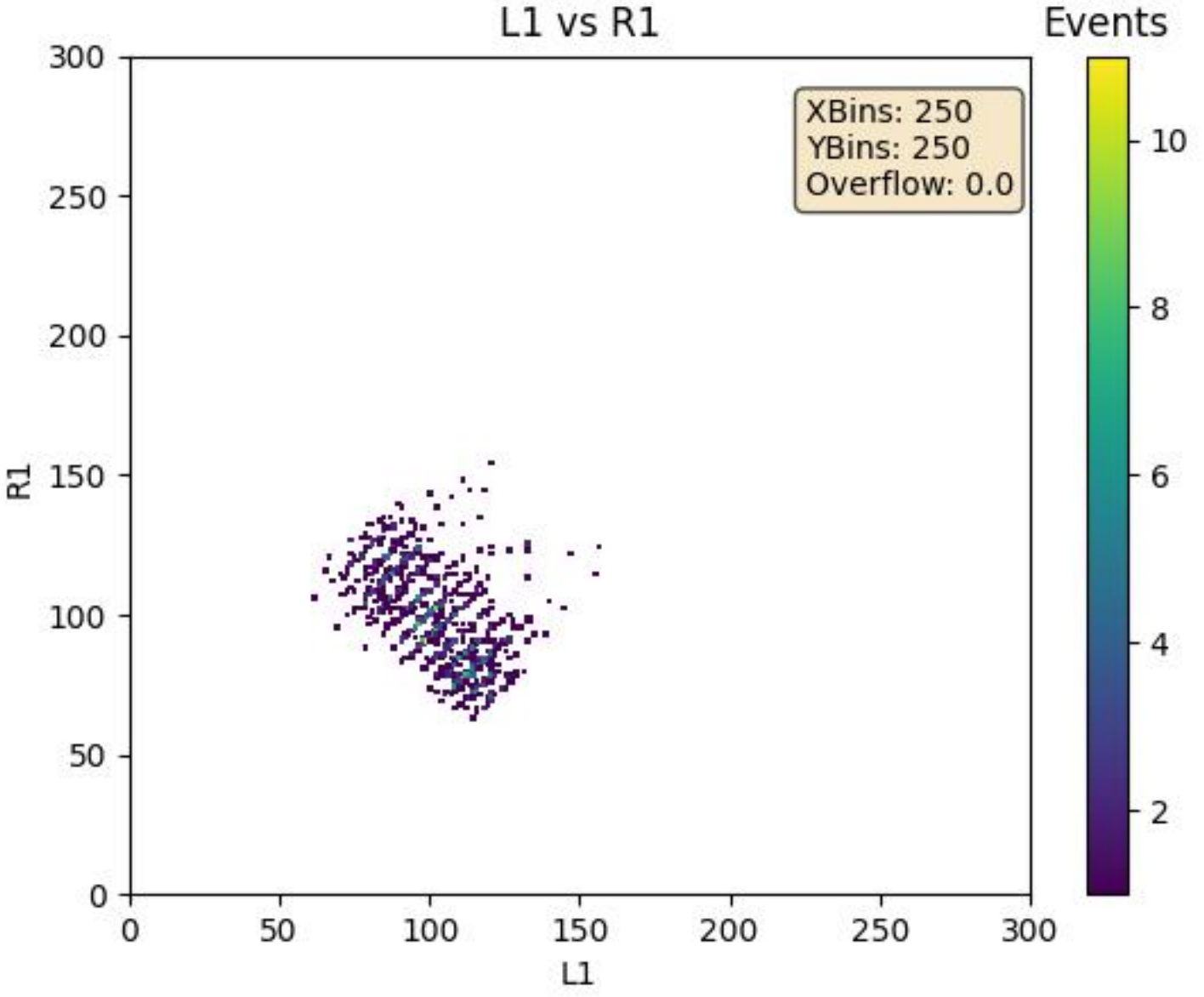

(High Binning) Asymmetry: L3 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 13.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
2.0
1.8
1.6
1.4
1.2
1.0

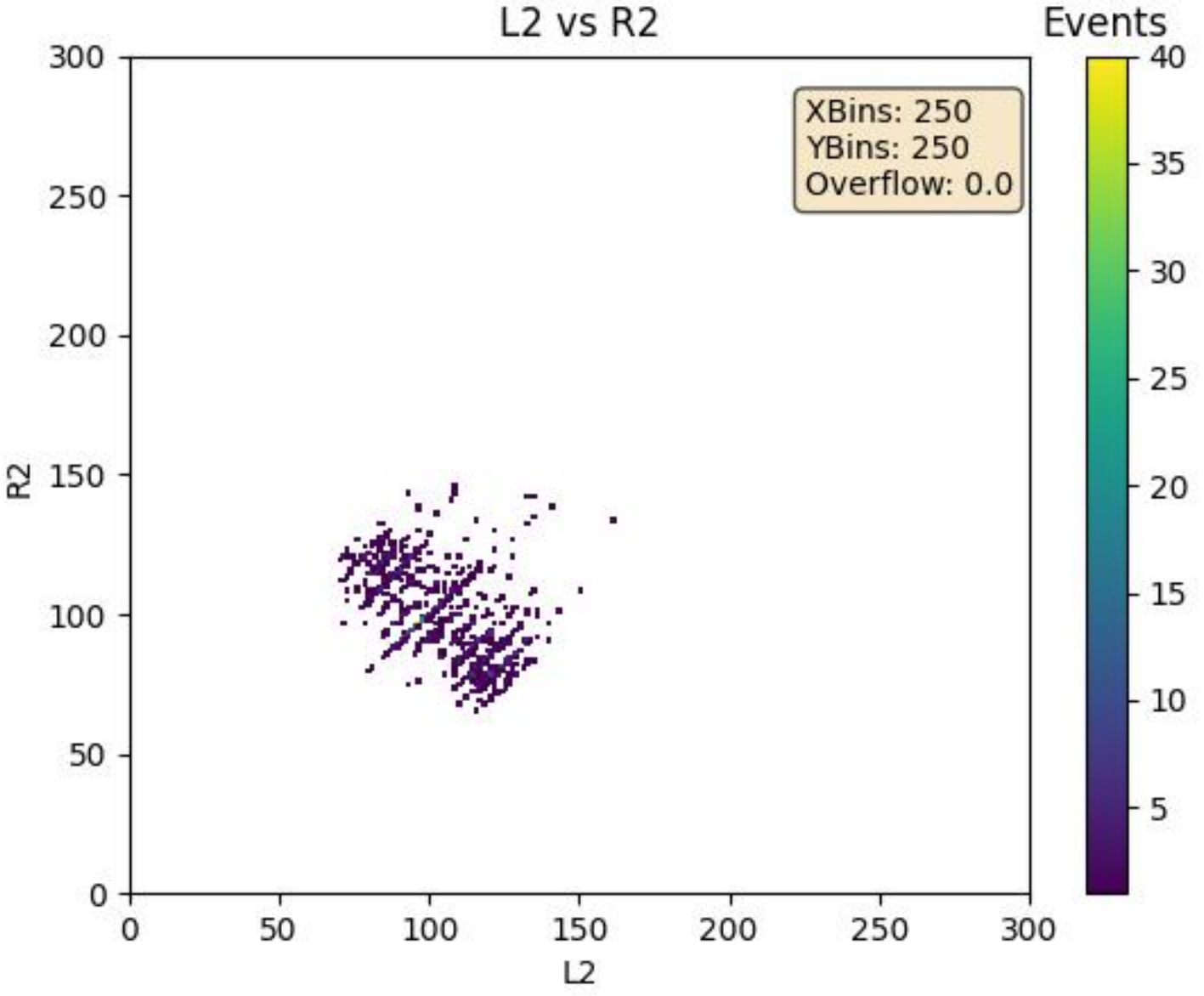

(High Binning) Asymmetry: L1 vs L3
Events
XBins: 1000
YBins: 1000
Overflow: 11.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
7
6
5
4
3
2
1

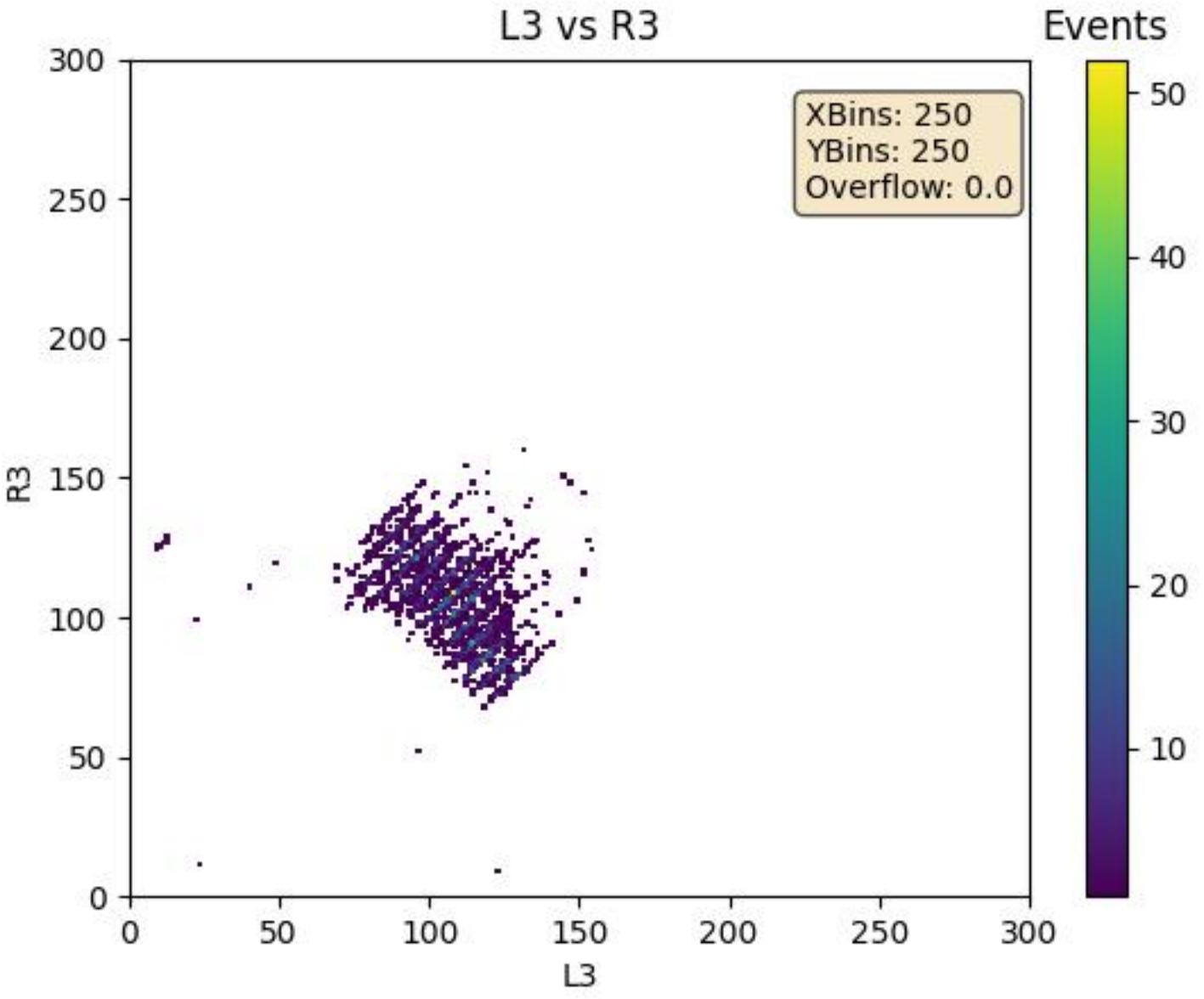

(High Binning) Asymmetry: L2 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 3.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
2.0
1.8
1.6
1.4
1.2
1.0

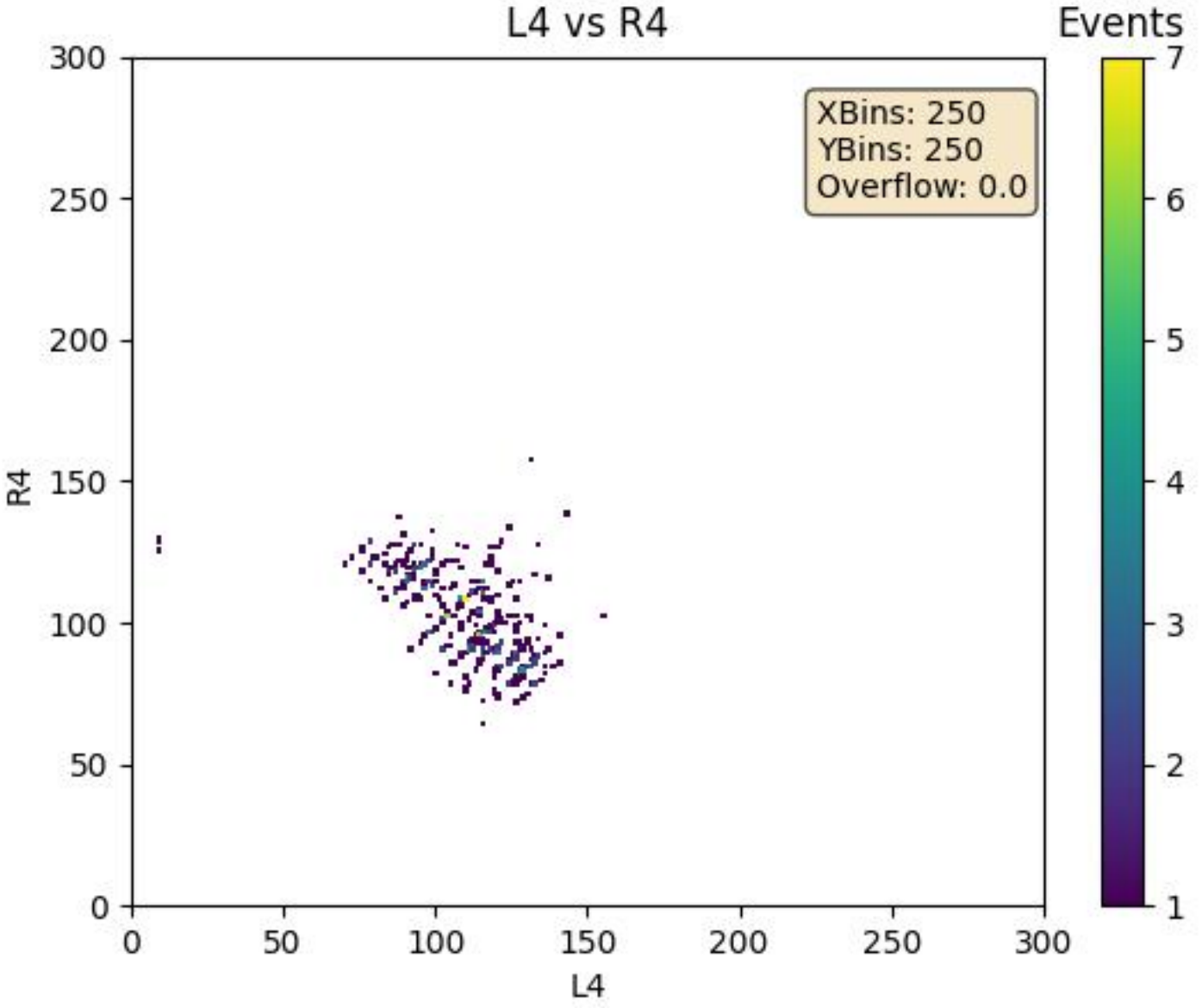

(High Binning) Asymmetry: L1 vs L4
Events
XBins: 1000
YBins: 1000
Overflow: 3.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
2.0
1.8
1.6
1.4
1.2
1.0

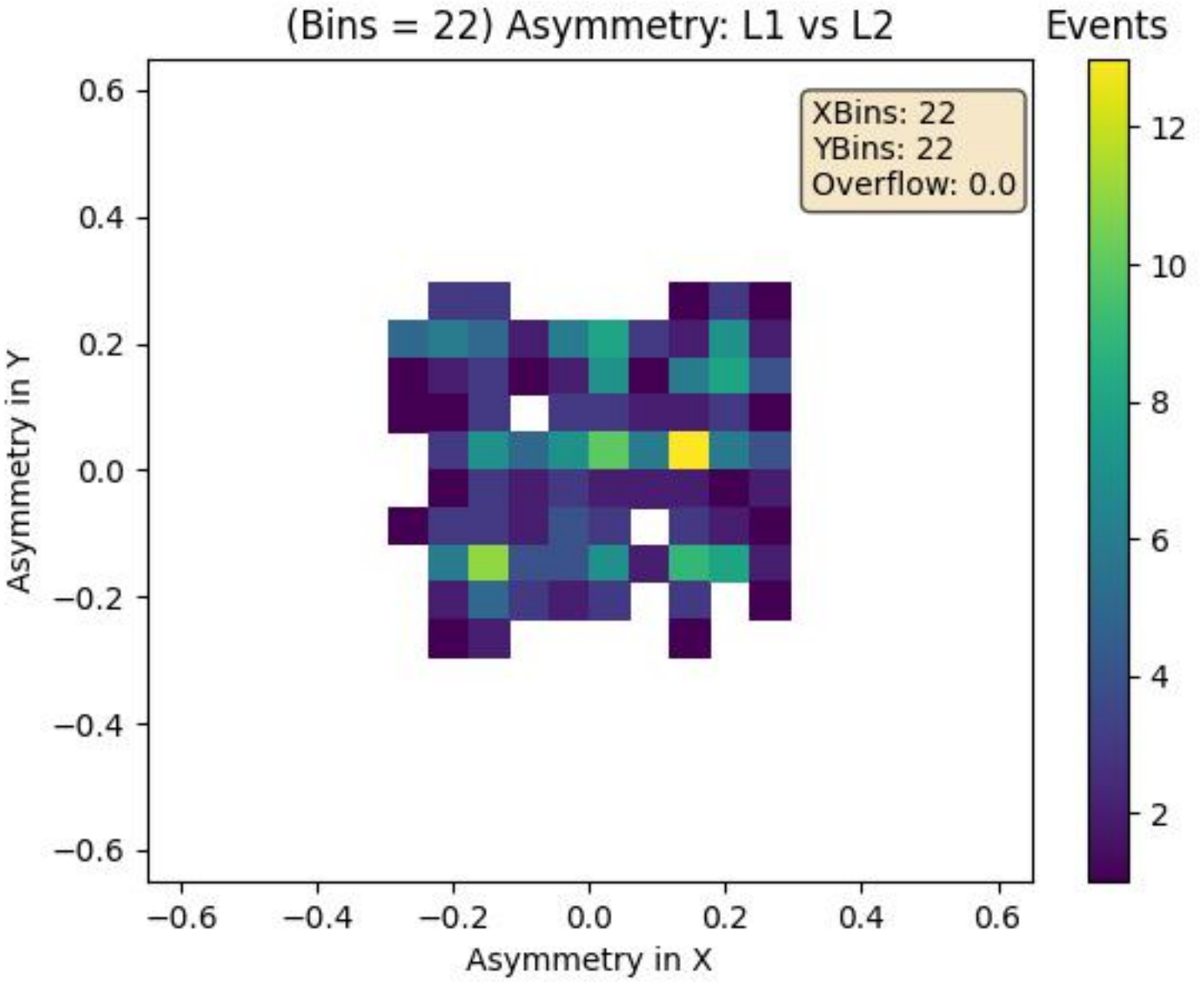

(High Binning) Asymmetry: L2 vs L3
Events
XBins: 1000
YBins: 1000
Overflow: 11.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
10
8
6
4
2

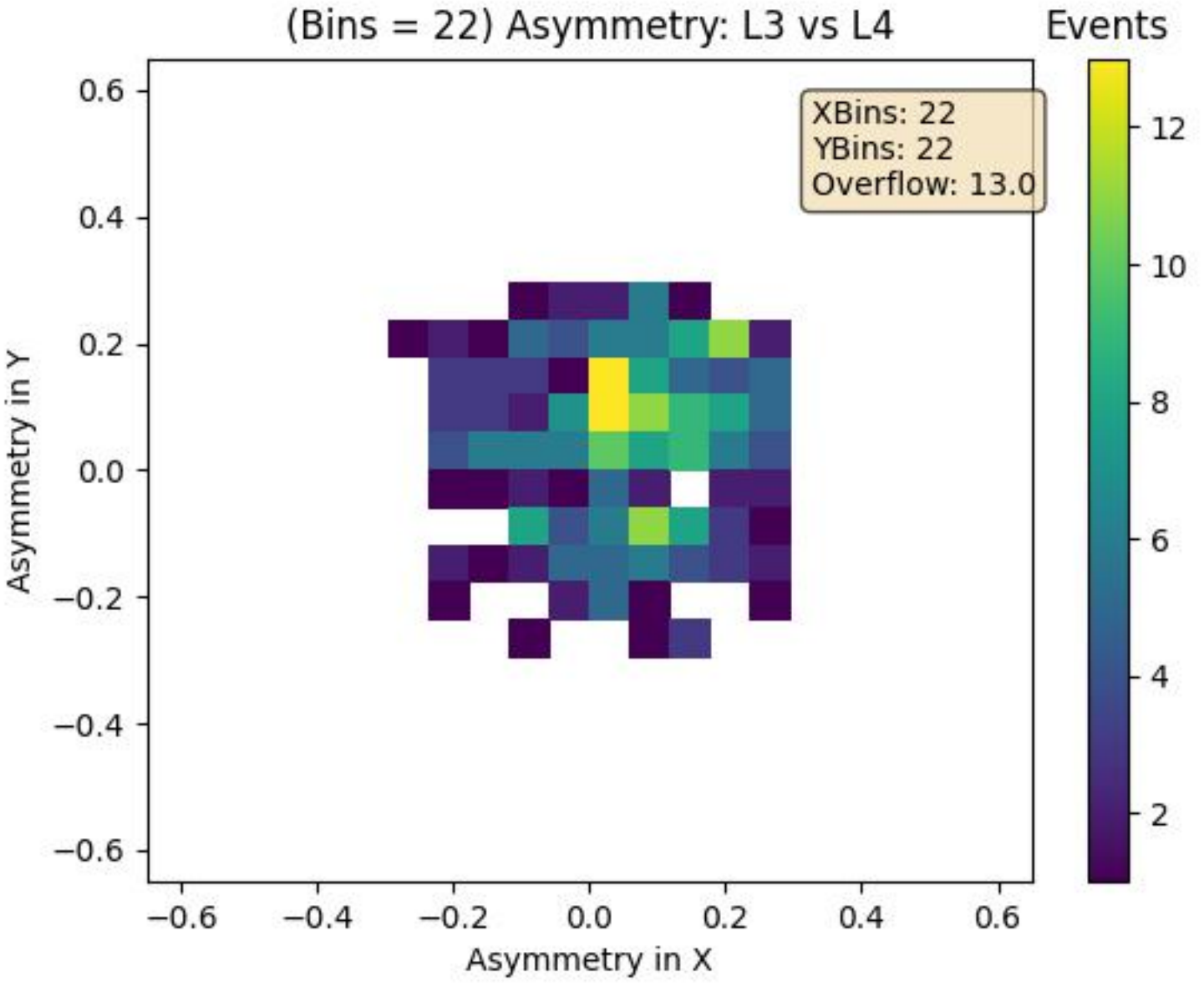

L1 vs R1
Events
XBins: 250
YBins: 250
Overflow: 0.0
R1
L1
0
50
100
150
200
250
300
2
4
6
8
10

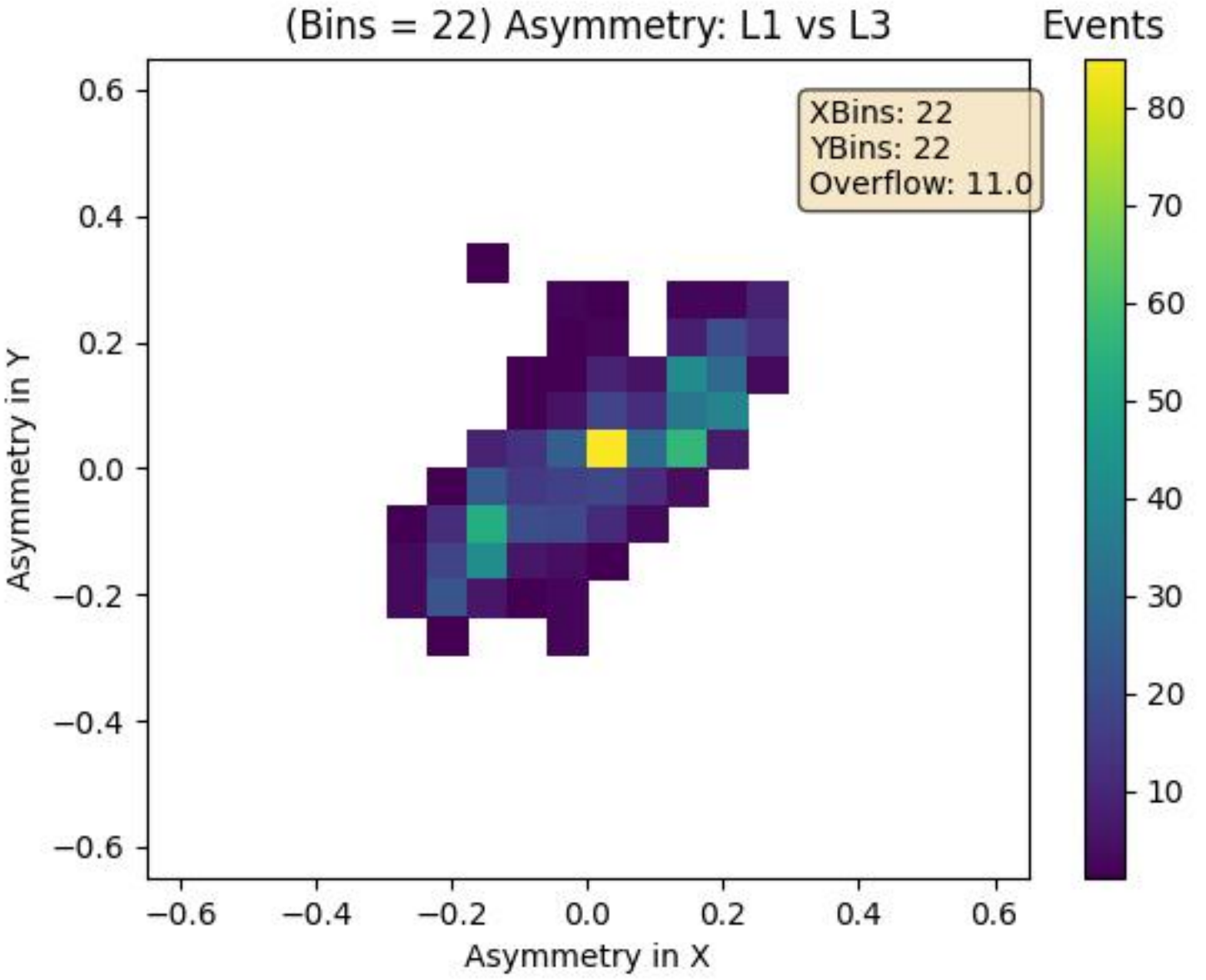

L2 vs R2
Events
XBins: 250
YBins: 250
Overflow: 0.0
R2
L2
0
50
100
150
200
250
300
5
10
15
20
25
30
35
40

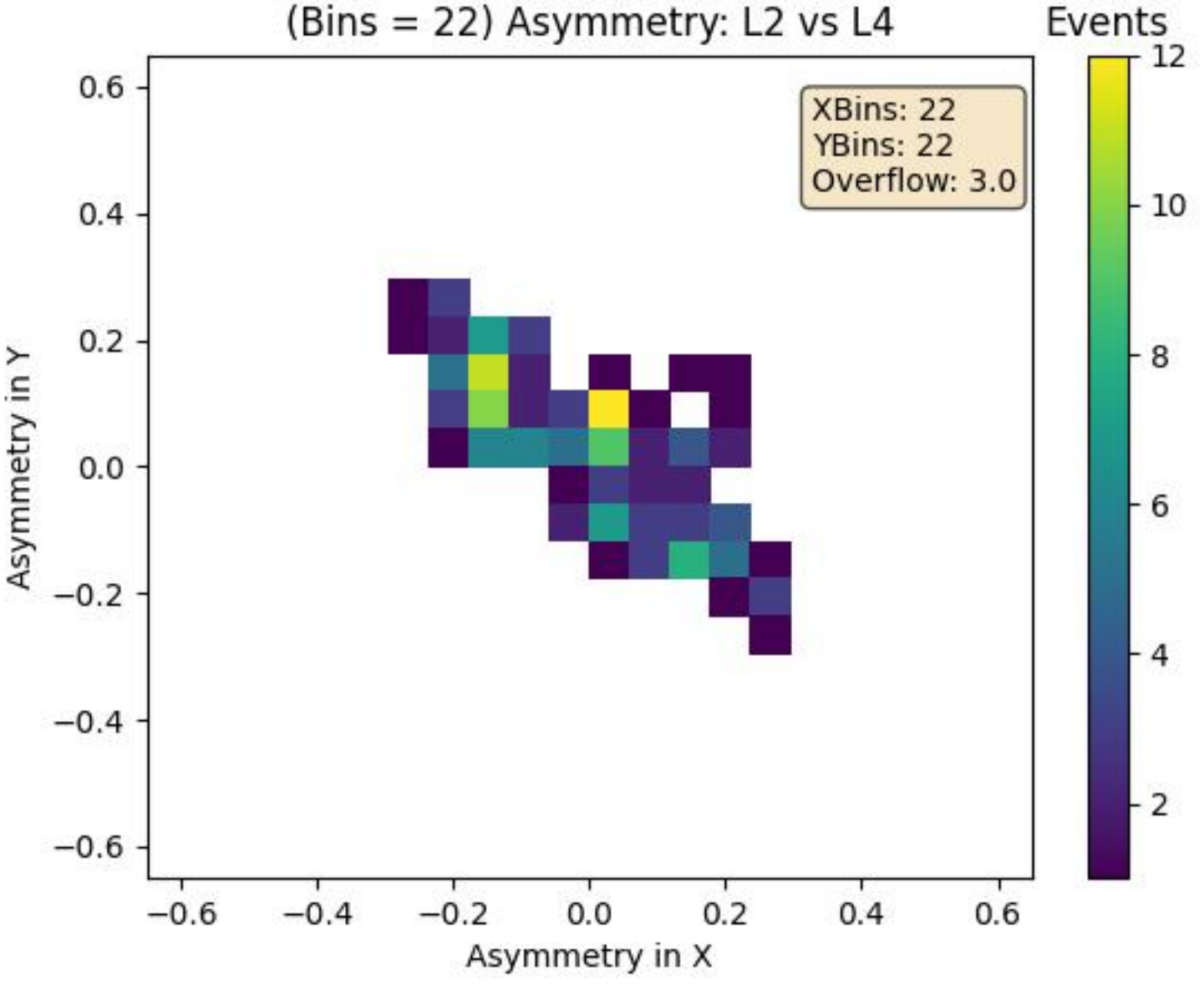

L3 vs R3
Events
XBins: 250
YBins: 250
Overflow: 0.0
R3
L3
0
50
100
150
200
250
300
10
20
30
40
50

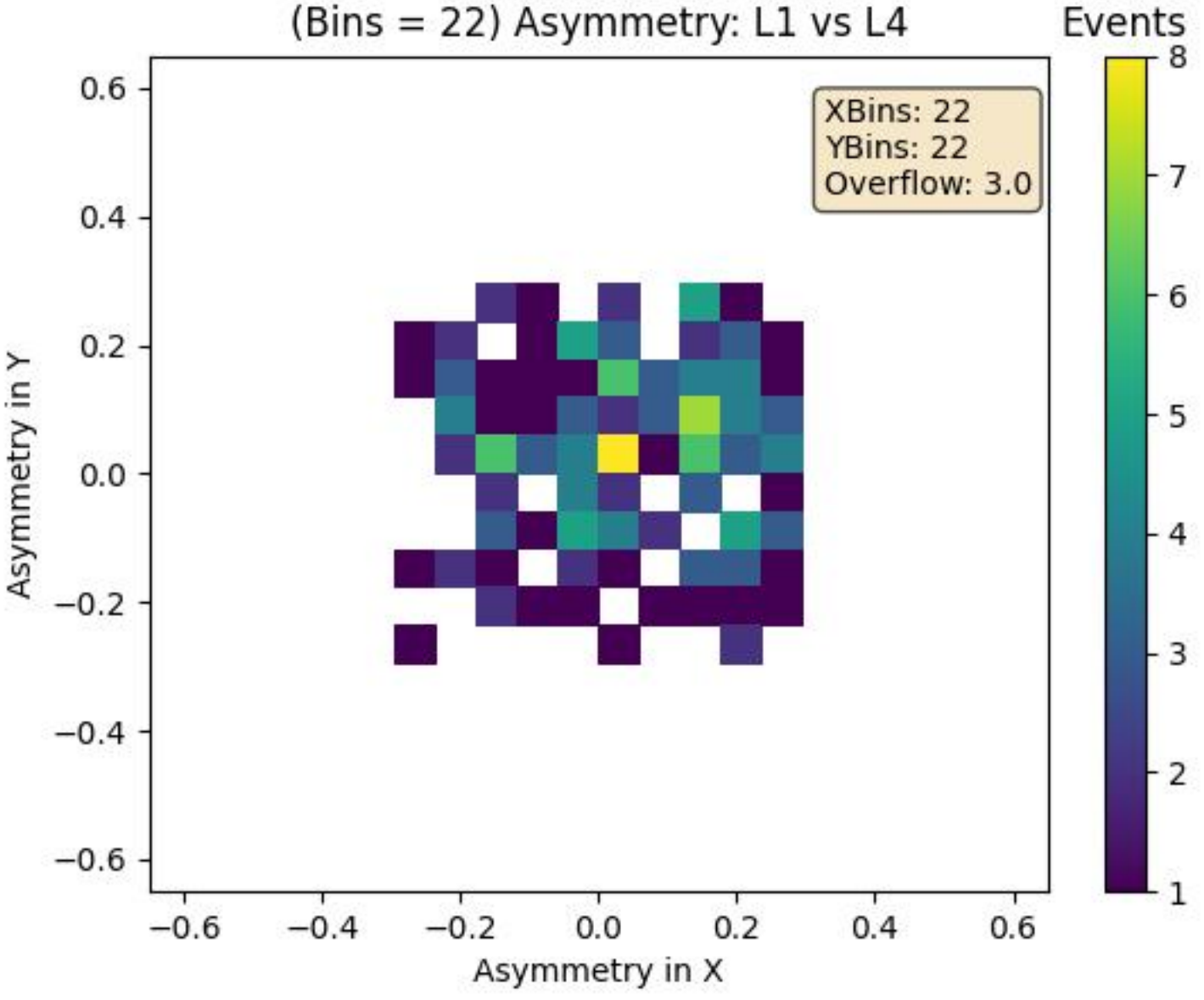

L4 vs R4
Events
XBins: 250
YBins: 250
Overflow: 0.0
R4
L4
0
50
100
150
200
250
300
1
2
3
4
5
6
7

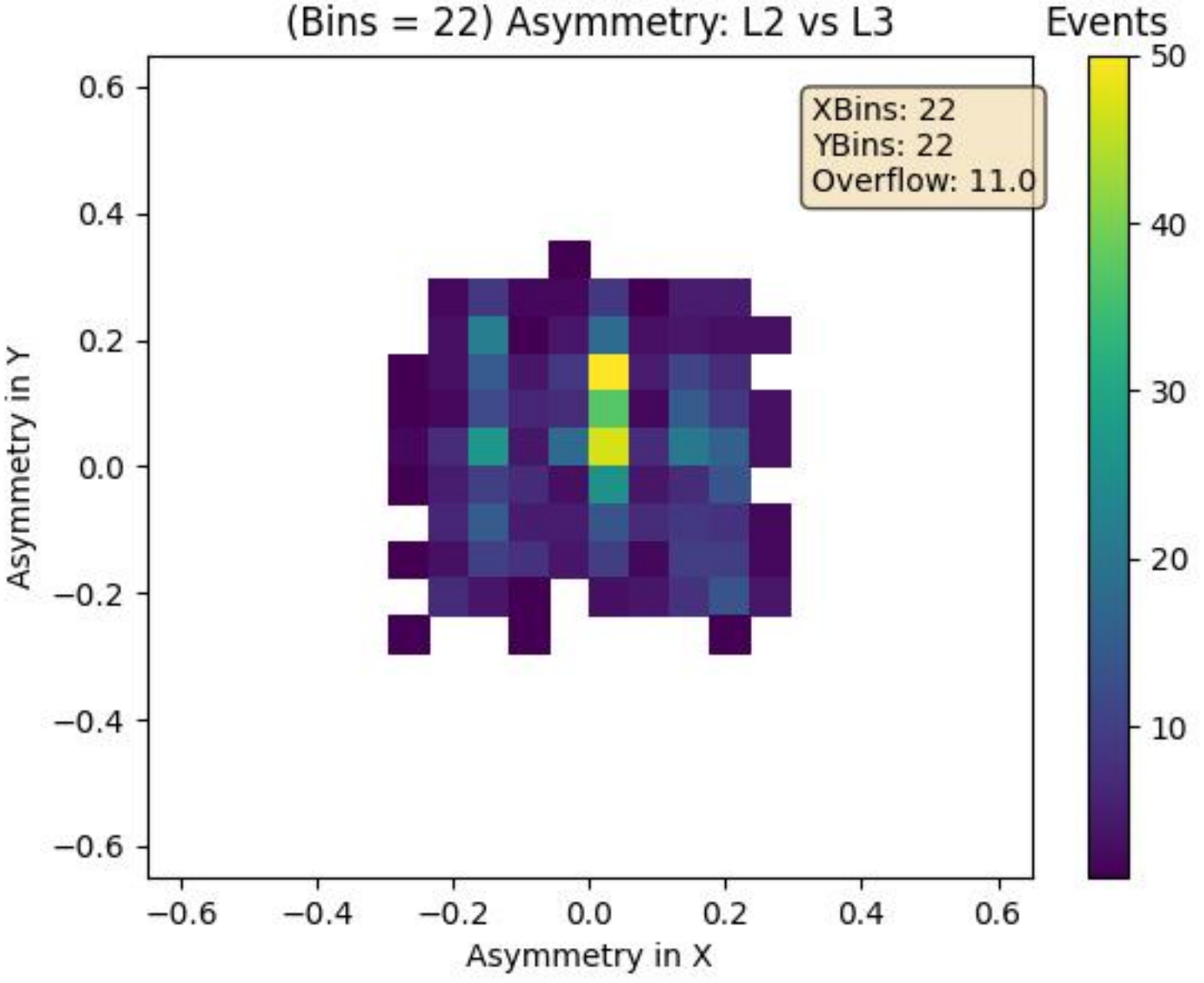

(Bins = 22) Asymmetry: L1 vs L2
Events
XBins: 22
YBins: 22
Overflow: 0.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
12
10
8
6
4
2


(Bins = 22) Asymmetry: L3 vs L4
Events
XBins: 22
YBins: 22
Overflow: 13.0
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
12
10
8
6
4
2


(Bins = 22) Asymmetry: L1 vs L3
Events
XBins: 22
YBins: 22
Overflow: 11.0
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
80
70
60
50
40
30
20
10


(Bins = 22) Asymmetry: L2 vs L4
Events
XBins: 22
YBins: 22
Overflow: 3.0
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
12
10
8
6
4
2


(Bins = 22) Asymmetry: L1 vs L4
Events
XBins: 22
YBins: 22
Overflow: 3.0
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
8
7
6
5
4
3
2
1


(Bins = 22) Asymmetry: L2 vs L3
Events
XBins: 22
YBins: 22
Overflow: 11.0
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
50
40
30
20
10