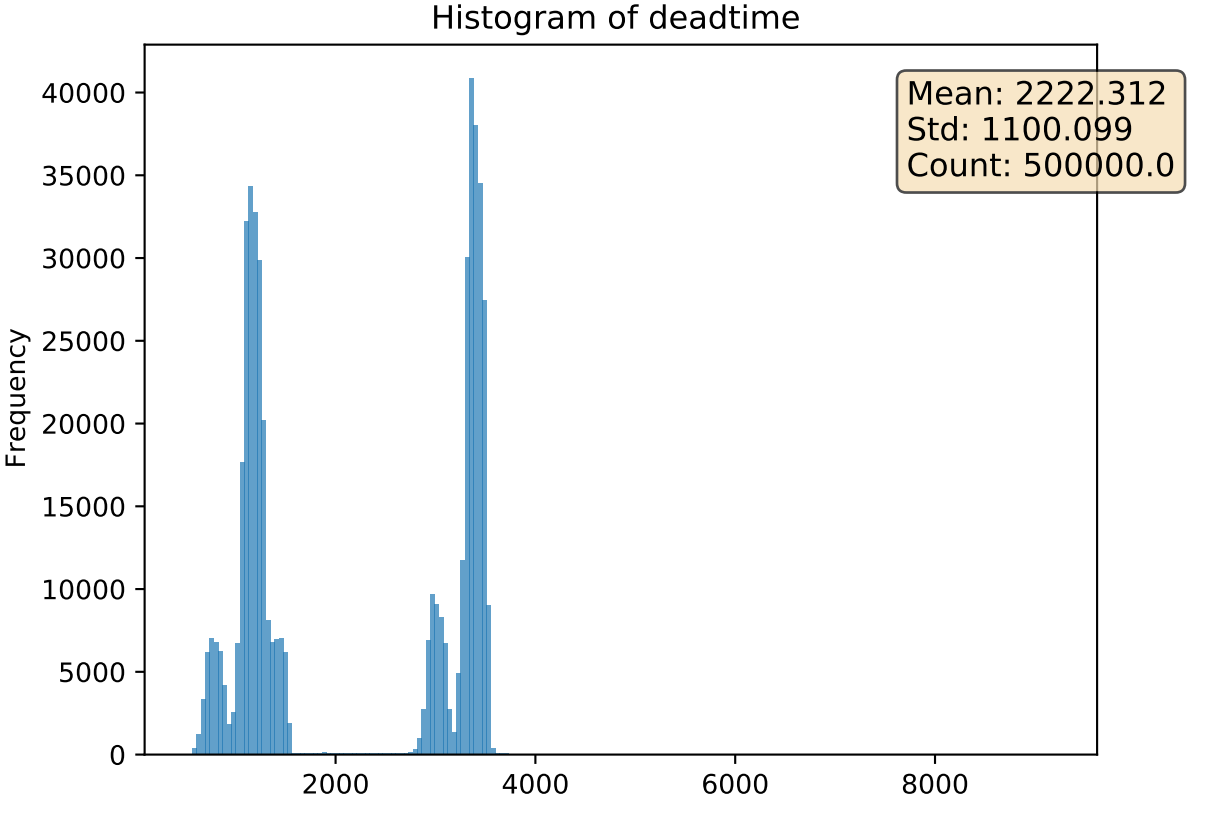
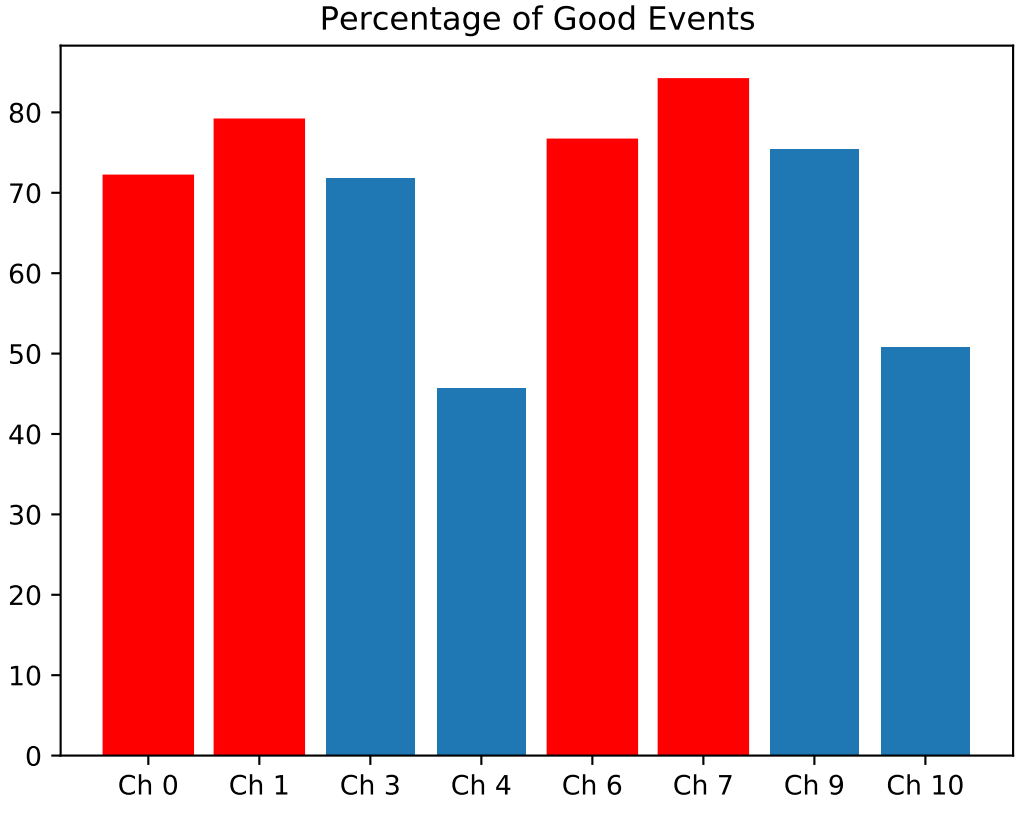
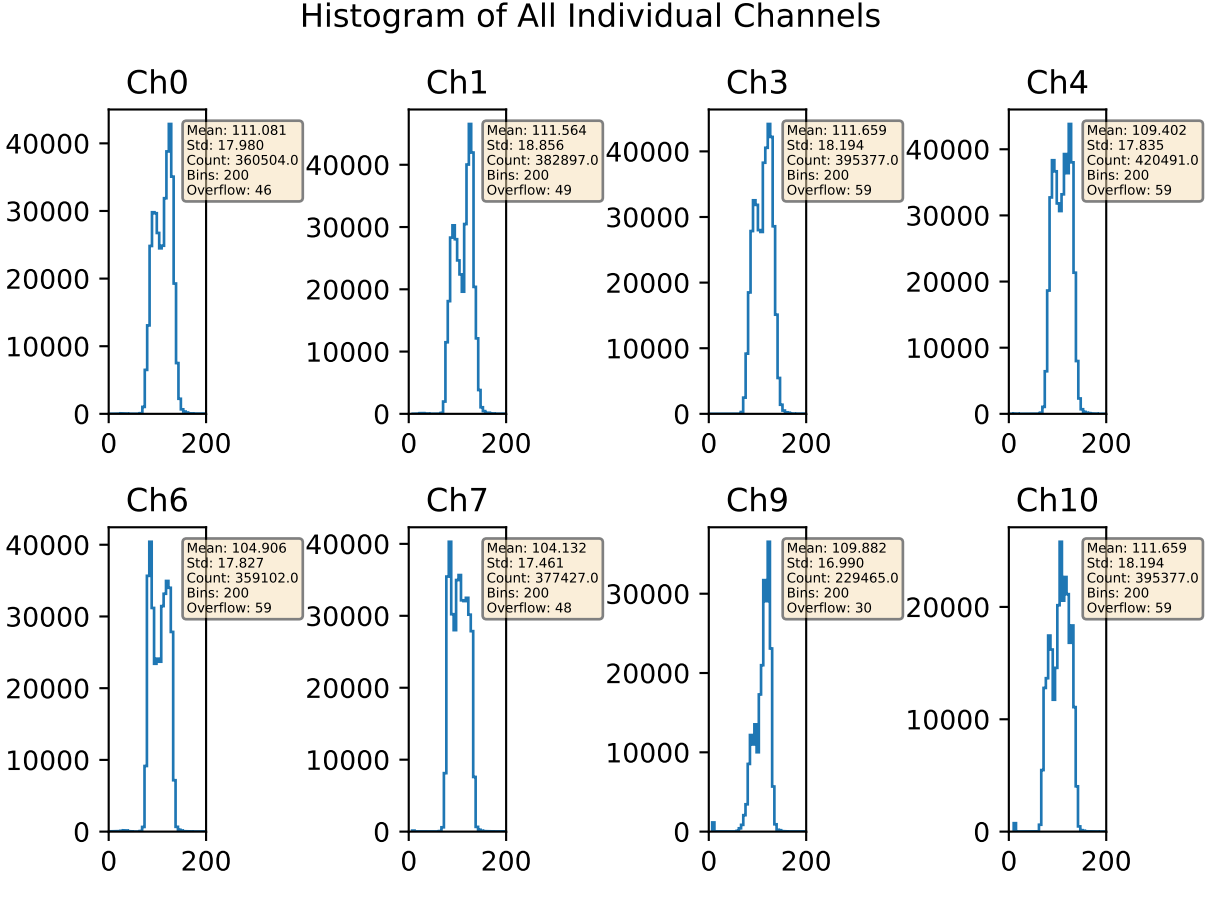
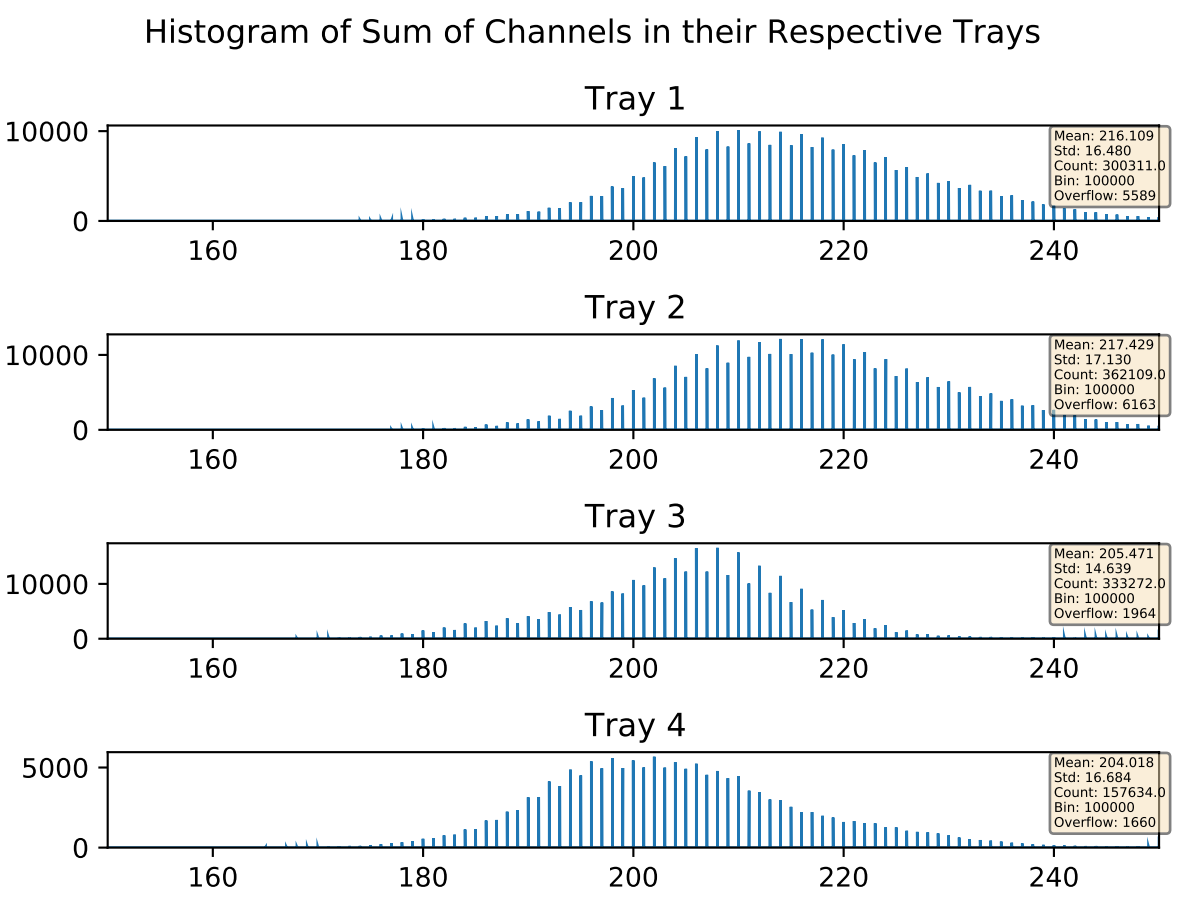
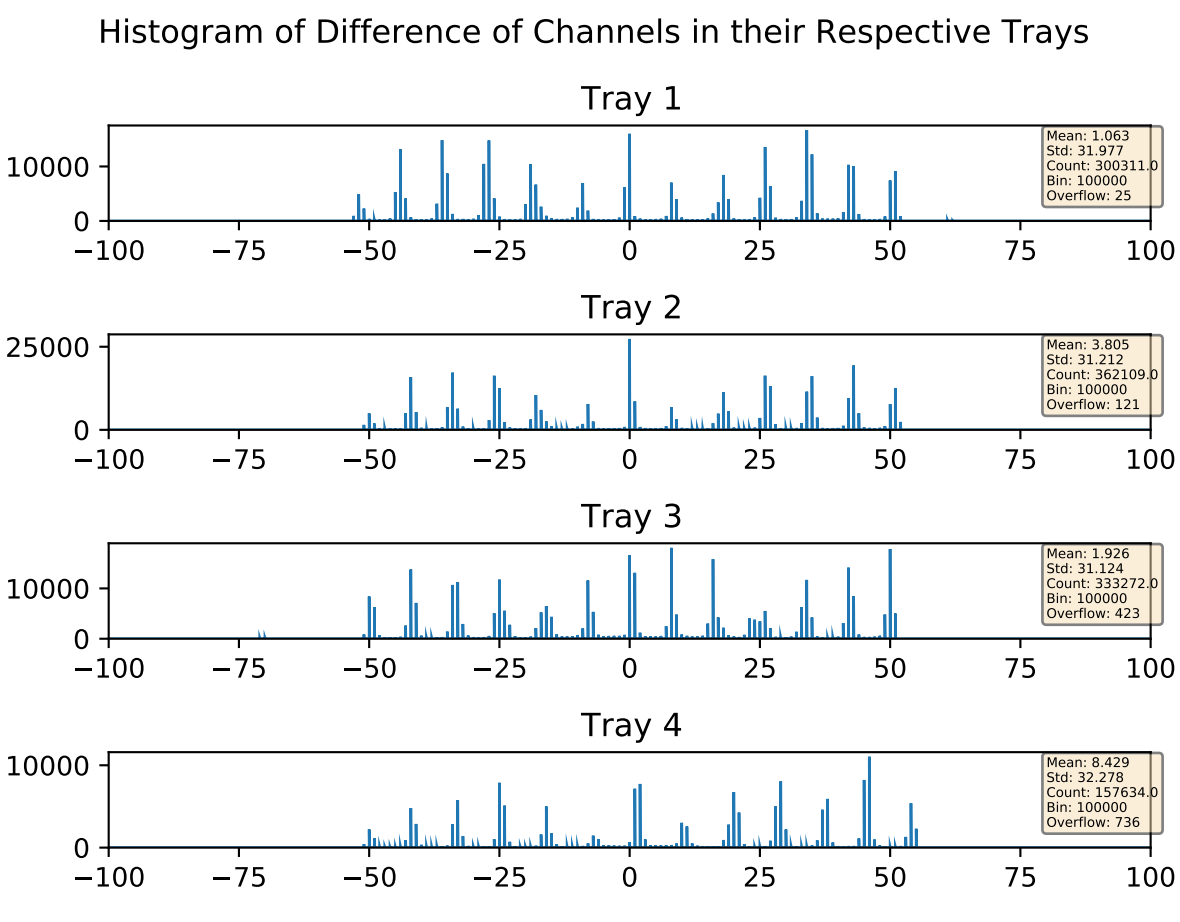
Analysis of Run: 31
Time Created: 2020-11-25 00:35:34.500889

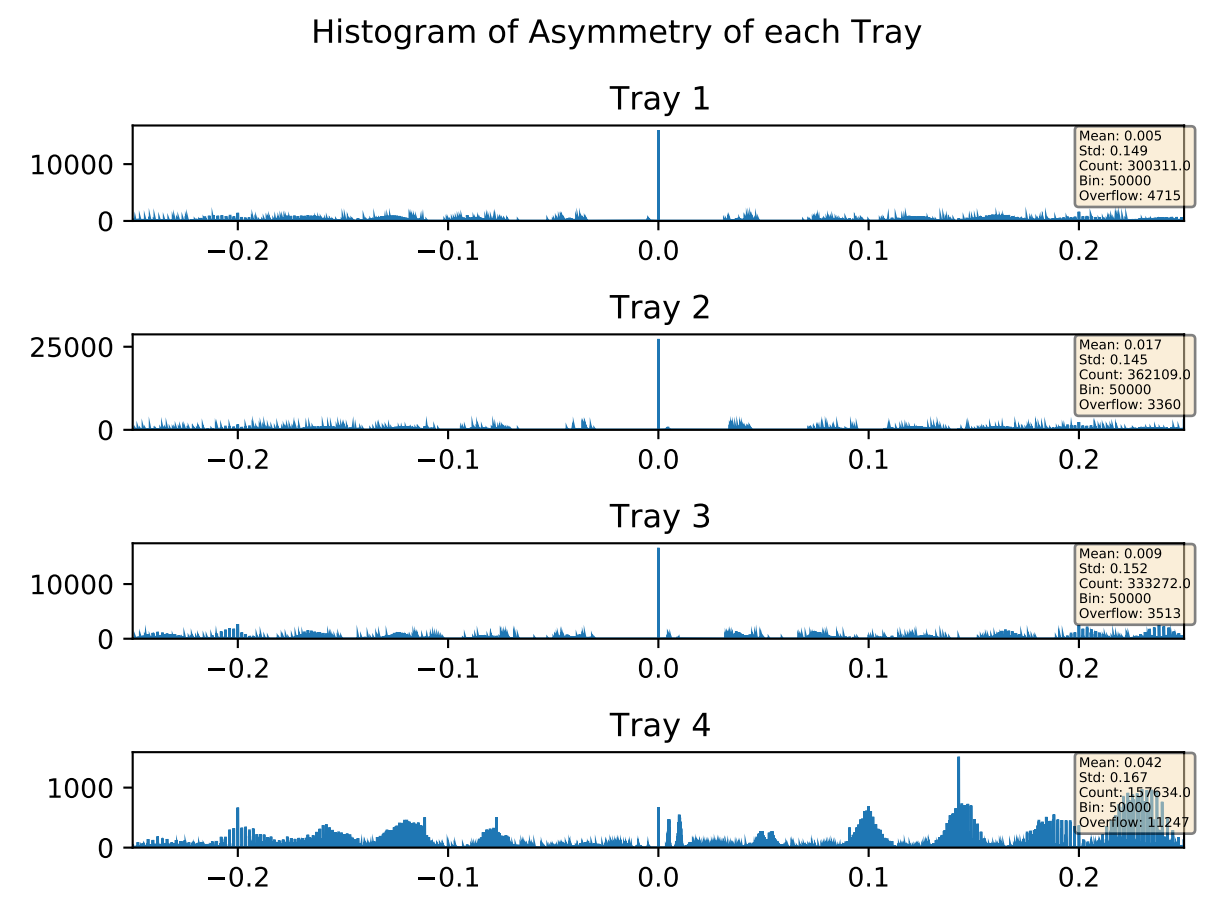

Histogram of deadtime
Mean: 2222.312
Std: 1100.099
Count: 500000.0
Frequency
40000
35000
30000
25000
20000
15000
10000
5000
0
2000
4000
6000
8000

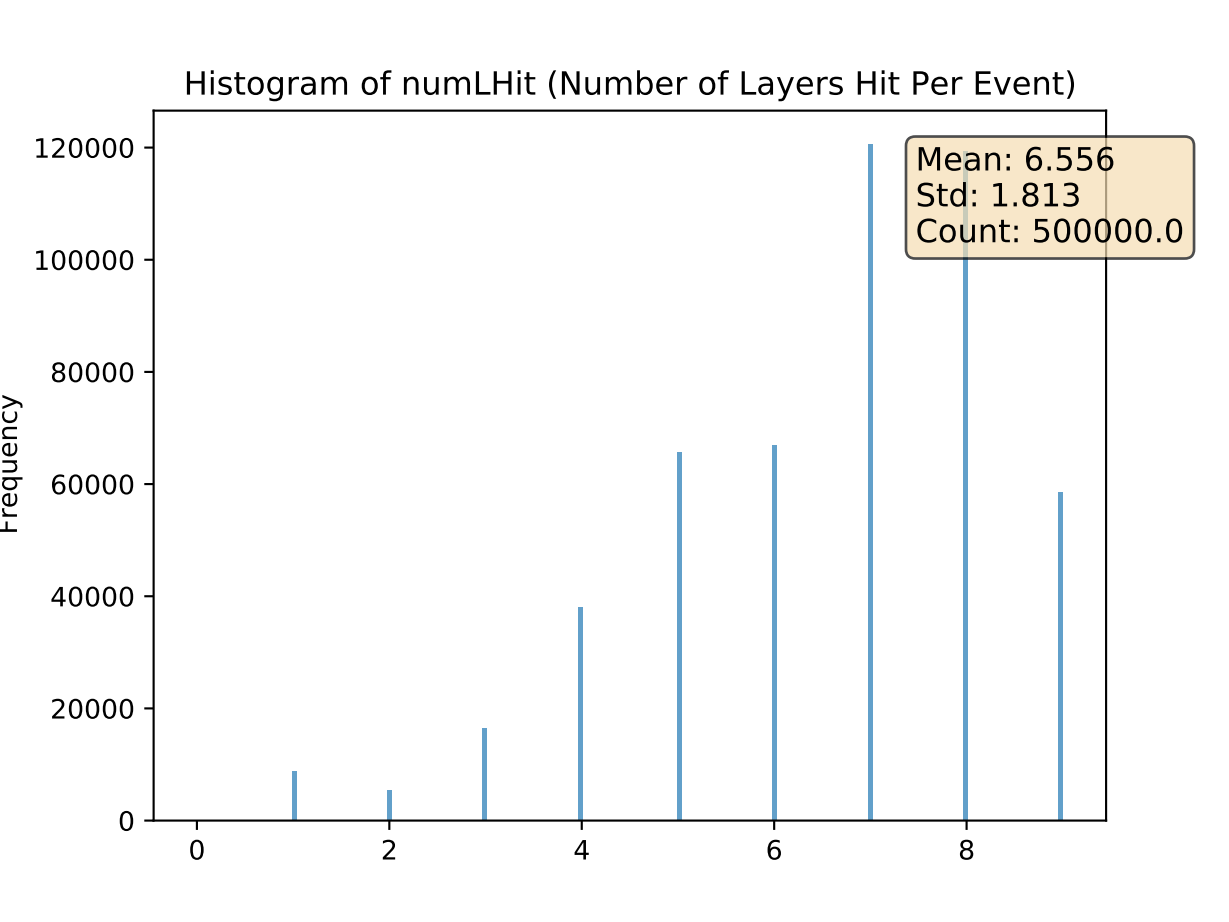

Percentage of Good Events
0
10
20
30
40
50
60
70
80
Ch 0
Ch 1
Ch 3
Ch 4
Ch 6
Ch 7
Ch 9
Ch 10

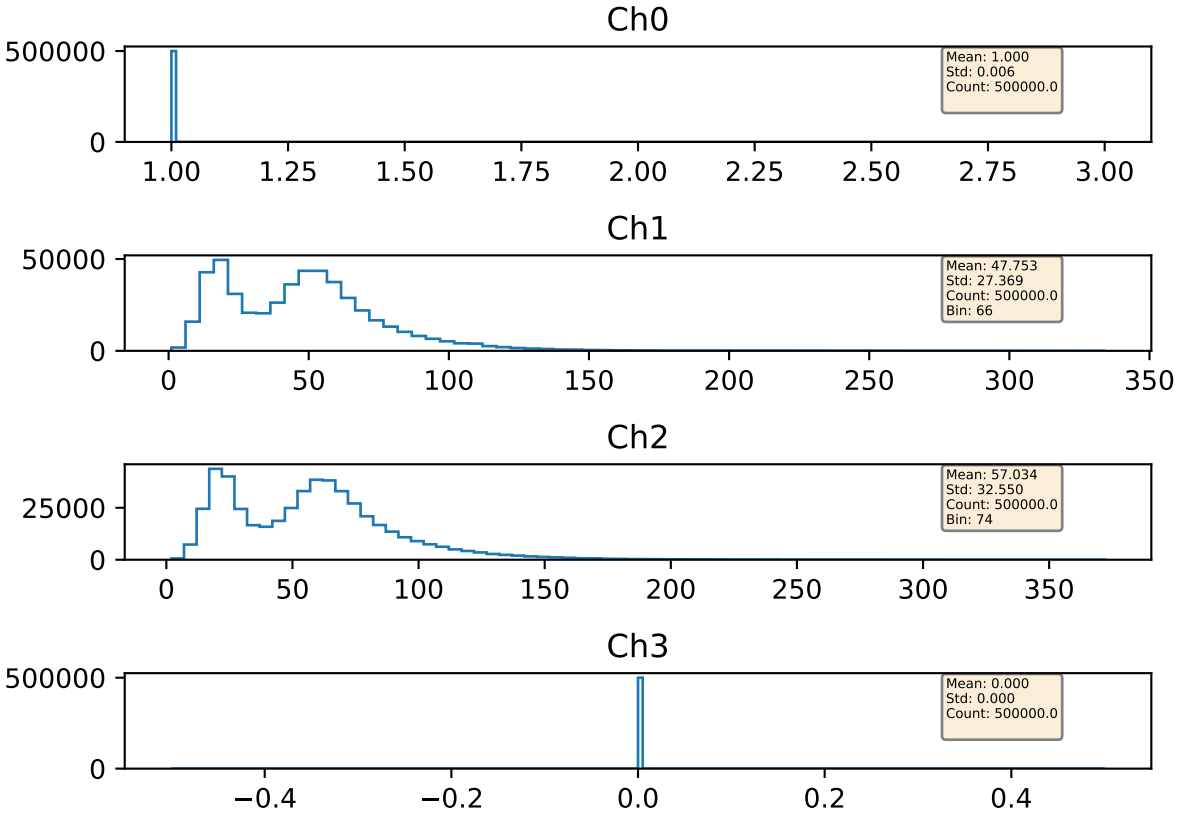

Histogram of All Individual Channels
Ch0
Mean: 111.081
Std: 17.980
Count: 360504.0
Bins: 200
Overflow: 46
Ch1
Mean: 111.564
Std: 18.856
Count: 382897.0
Bins: 200
Overflow: 49
Ch3
Mean: 111.659
Std: 18.194
Count: 395377.0
Bins: 200
Overflow: 59
Ch4
Mean: 109.402
Std: 17.835
Count: 420491.0
Bins: 200
Overflow: 59
Ch6
Mean: 104.906
Std: 17.827
Count: 359102.0
Bins: 200
Overflow: 59
Ch7
Mean: 104.132
Std: 17.461
Count: 377427.0
Bins: 200
Overflow: 48
Ch9
Mean: 109.882
Std: 16.990
Count: 229465.0
Bins: 200
Overflow: 30
Ch10
Mean: 111.659
Std: 18.194
Count: 395377.0
Bins: 200
Overflow: 59

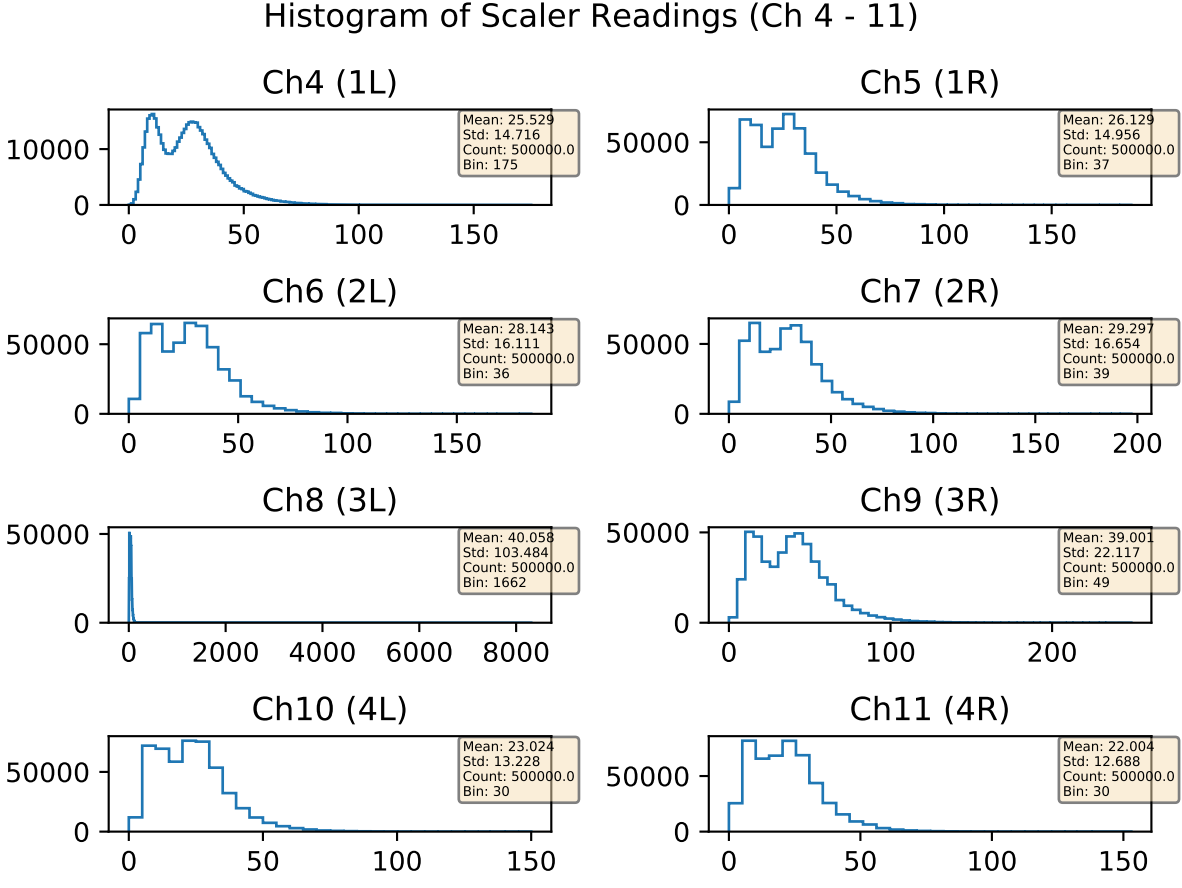

Histogram of Sum of Channels in their Respective Trays
Tray 1
Mean: 216.109
Std: 16.480
Count: 300311.0
Bin: 100000
Overflow: 5589
Tray 2
Mean: 217.429
Std: 17.130
Count: 362109.0
Bin: 100000
Overflow: 6163
Tray 3
Mean: 205.471
Std: 14.639
Count: 333272.0
Bin: 100000
Overflow: 1964
Tray 4
Mean: 204.018
Std: 16.684
Count: 157634.0
Bin: 100000
Overflow: 1660
10000
5000
0
160
180
200
220
240

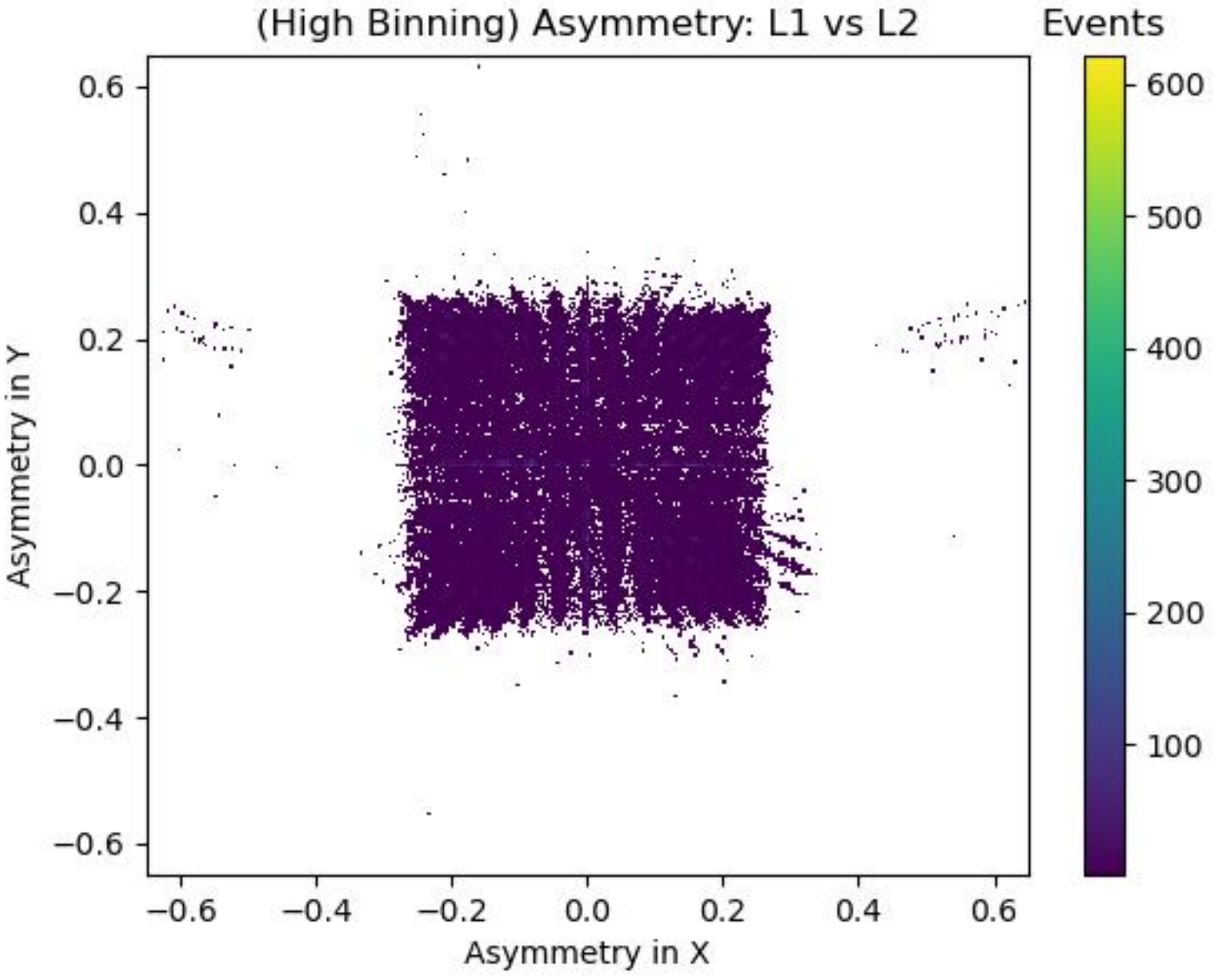

Histogram of Difference of Channels in their Respective Trays
Tray 1
Mean: 1.063
Std: 31.977
Count: 300311.0
Bin: 100000
Overflow: 25
Tray 2
Mean: 3.805
Std: 31.212
Count: 362109.0
Bin: 100000
Overflow: 121
Tray 3
Mean: 1.926
Std: 31.124
Count: 333272.0
Bin: 100000
Overflow: 423
Tray 4
Mean: 8.429
Std: 32.278
Count: 157634.0
Bin: 100000
Overflow: 736
10000
25000
0
−100
−75
−50
−25
0
25
50
75
100

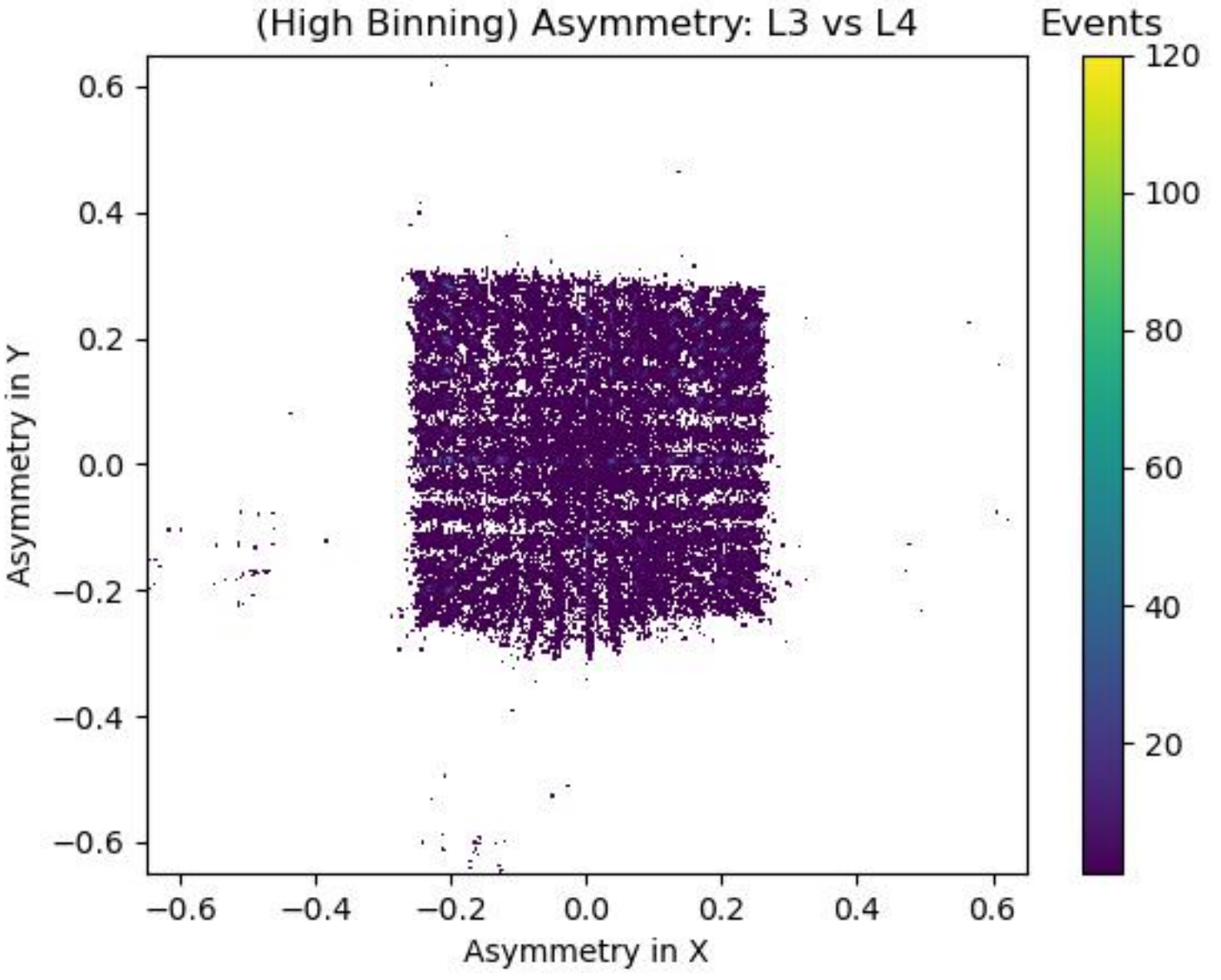

Histogram of Asymmetry of each Tray
Tray 1
Mean: 0.005
Std: 0.149
Count: 300311.0
Bin: 50000
Overflow: 4715
10000
0
−0.2
−0.1
0.0
0.1
0.2
Tray 2
Mean: 0.017
Std: 0.145
Count: 362109.0
Bin: 50000
Overflow: 3360
25000
0
−0.2
−0.1
0.0
0.1
0.2
Tray 3
Mean: 0.009
Std: 0.152
Count: 333272.0
Bin: 50000
Overflow: 3513
10000
0
−0.2
−0.1
0.0
0.1
0.2
Tray 4
Mean: 0.042
Std: 0.167
Count: 157634.0
Bin: 50000
Overflow: 11247
1000
0
−0.2
−0.1
0.0
0.1
0.2

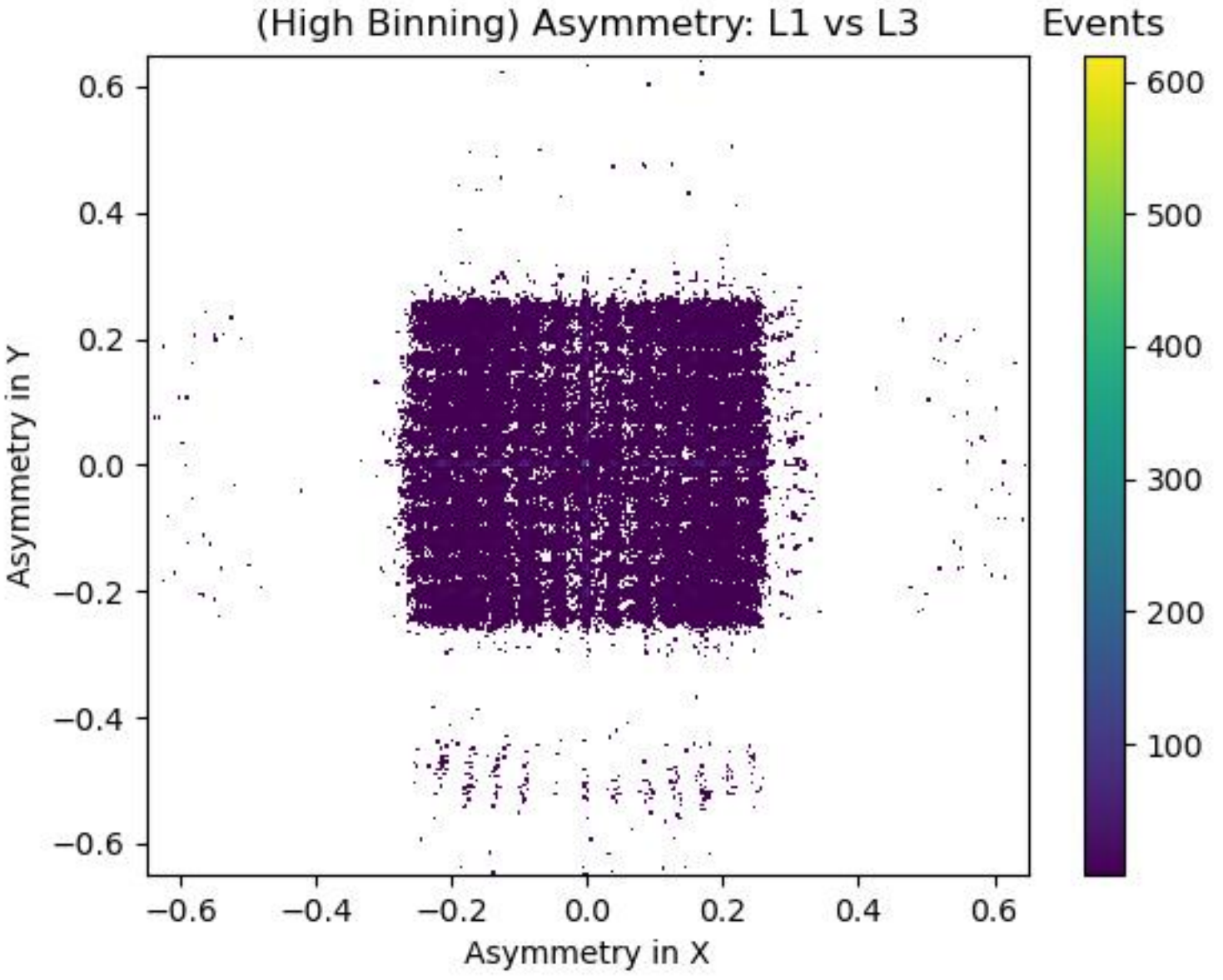

Histogram of numLHit (Number of Layers Hit Per Event)
Mean: 6.556
Std: 1.813
Count: 500000.0
Frequency
120000
100000
80000
60000
40000
20000
0
0
2
4
6
8

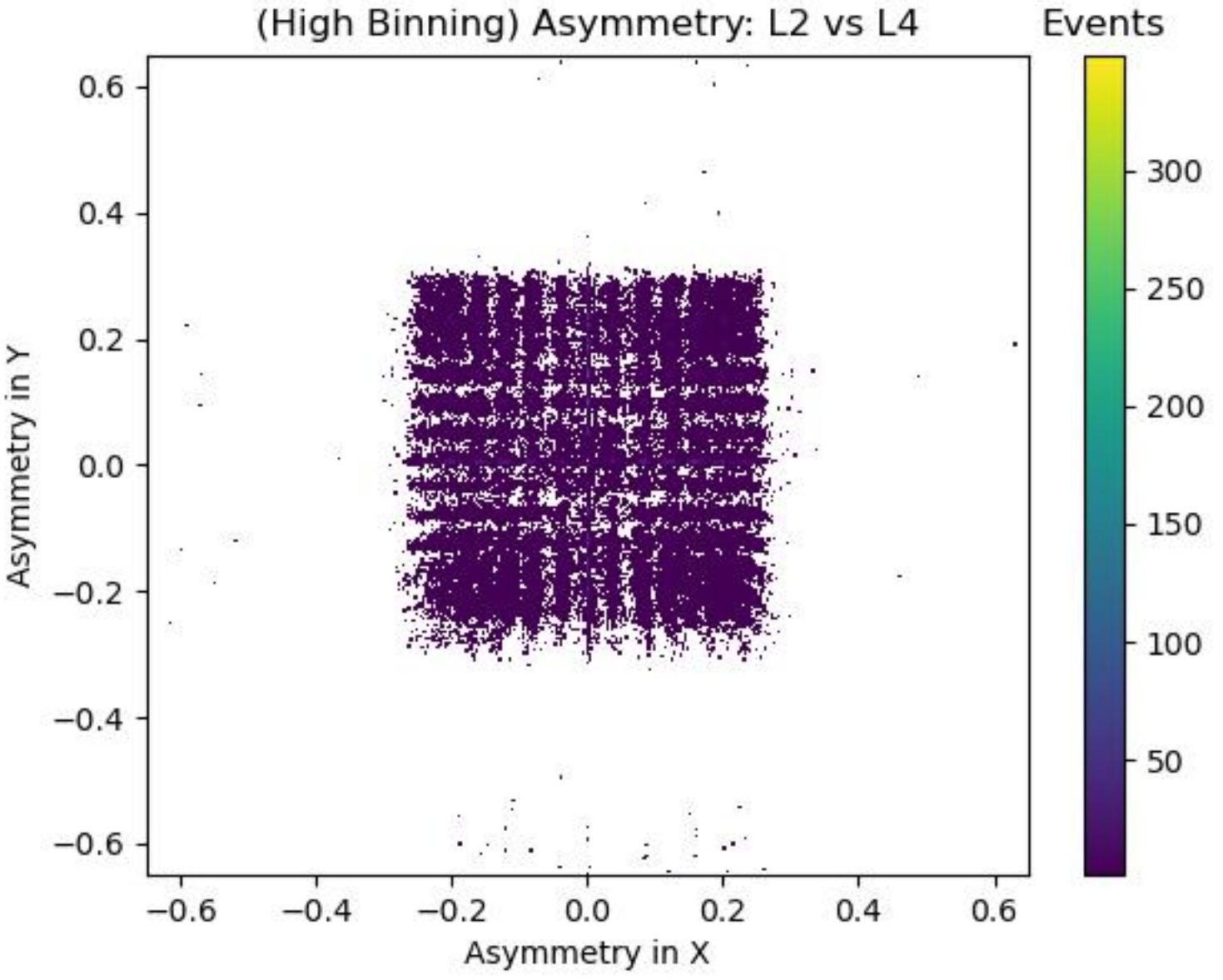

Histogram of Scaler Readings (Ch 0 - 3)
Ch0
Mean: 1.000
Std: 0.006
Count: 500000.0
500000
0
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00
Ch1
Mean: 47.753
Std: 27.369
Count: 500000.0
Bin: 66
50000
0
0
50
100
150
200
250
300
350
Ch2
Mean: 57.034
Std: 32.550
Count: 500000.0
Bin: 74
25000
0
0
50
100
150
200
250
300
350
Ch3
Mean: 0.000
Std: 0.000
Count: 500000.0
500000
0
−0.4
−0.2
0.0
0.2
0.4

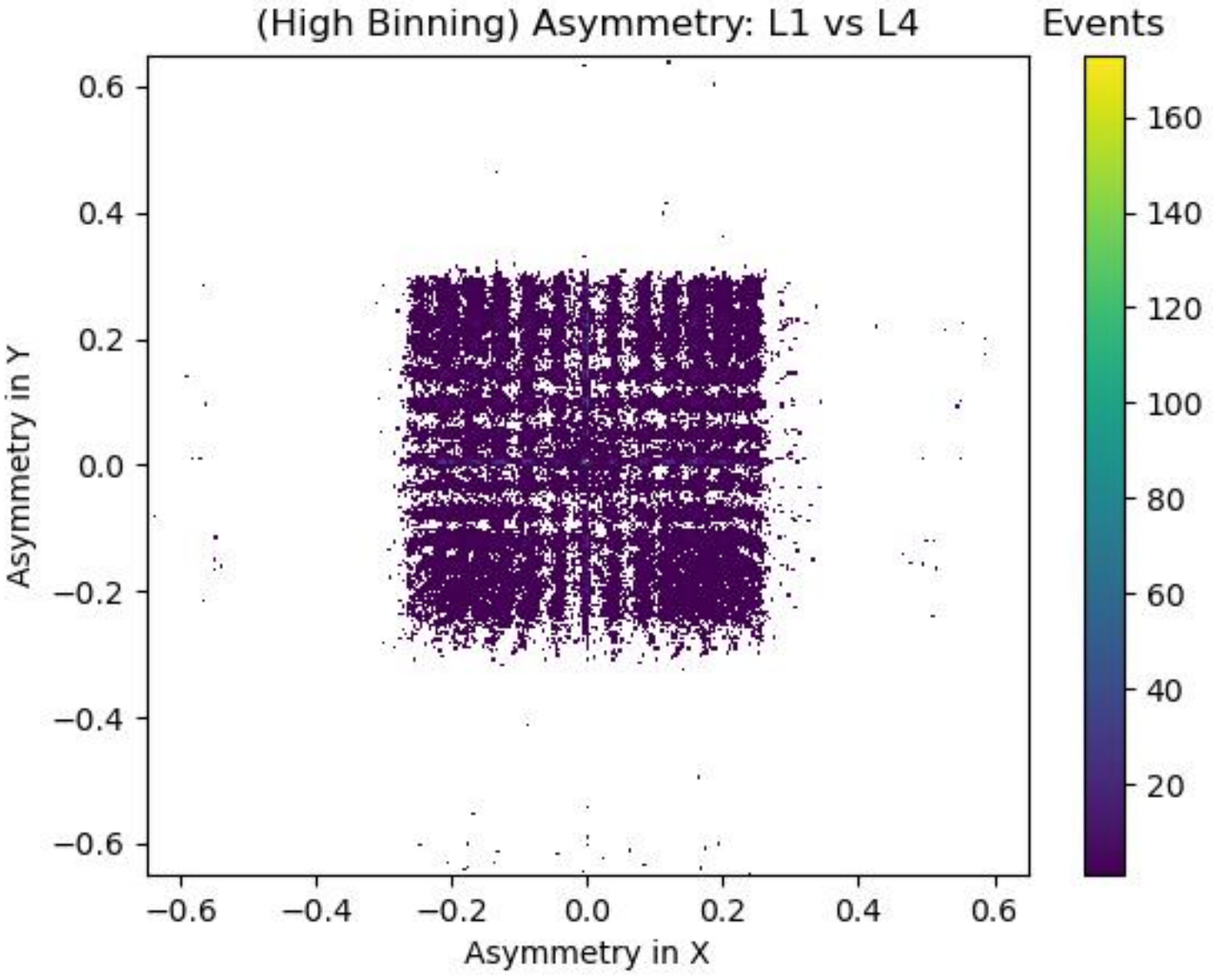

Histogram of Scaler Readings (Ch 4 - 11)
Ch4 (1L)
Mean: 25.529
Std: 14.716
Count: 500000.0
Bin: 175
Ch5 (1R)
Mean: 26.129
Std: 14.956
Count: 500000.0
Bin: 37
Ch6 (2L)
Mean: 28.143
Std: 16.111
Count: 500000.0
Bin: 36
Ch7 (2R)
Mean: 29.297
Std: 16.654
Count: 500000.0
Bin: 39
Ch8 (3L)
Mean: 40.058
Std: 103.484
Count: 500000.0
Bin: 1662
Ch9 (3R)
Mean: 39.001
Std: 22.117
Count: 500000.0
Bin: 49
Ch10 (4L)
Mean: 23.024
Std: 13.228
Count: 500000.0
Bin: 30
Ch11 (4R)
Mean: 22.004
Std: 12.688
Count: 500000.0
Bin: 30

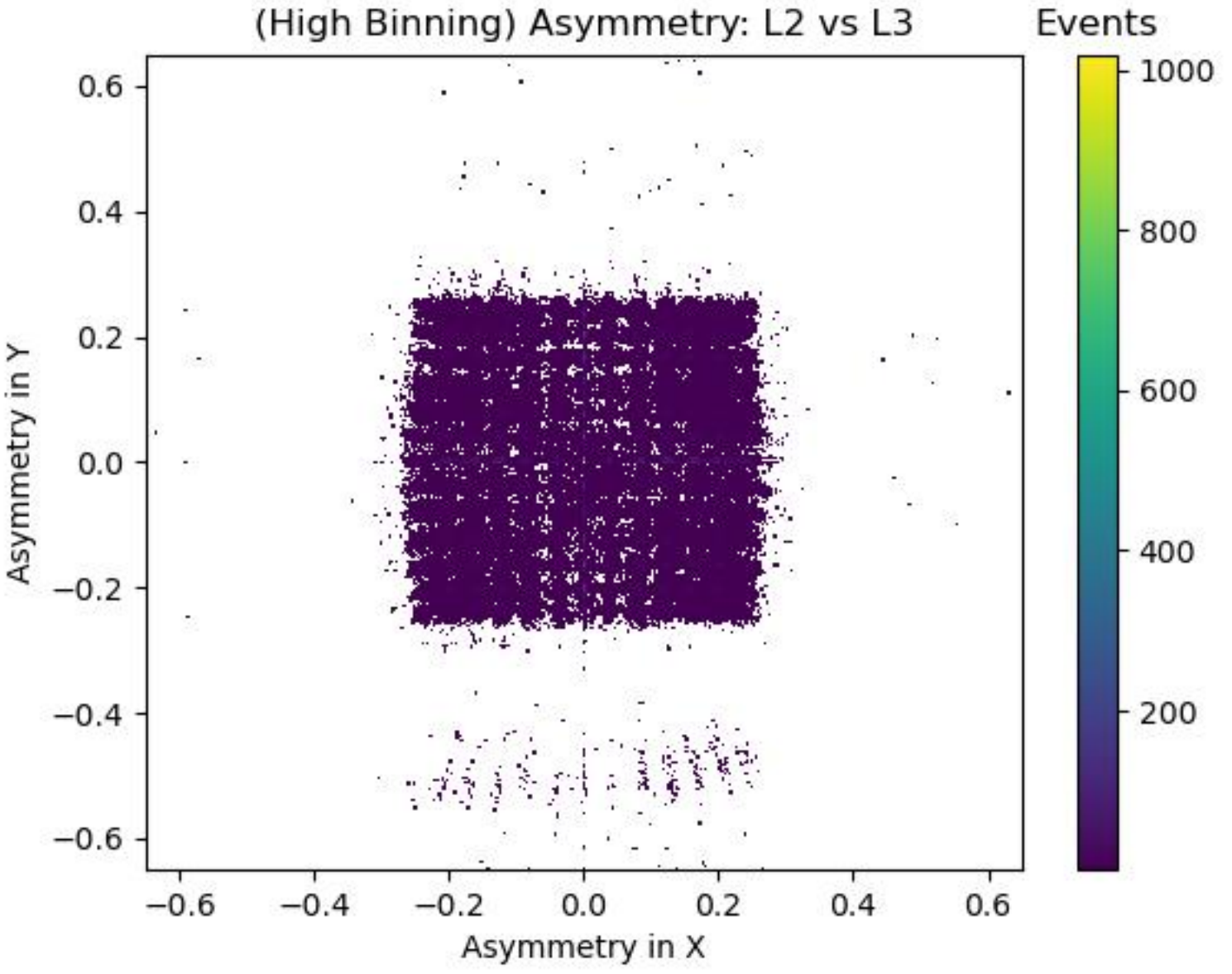

(High Binning) Asymmetry: L1 vs L2
Events
600
500
400
300
200
100
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X

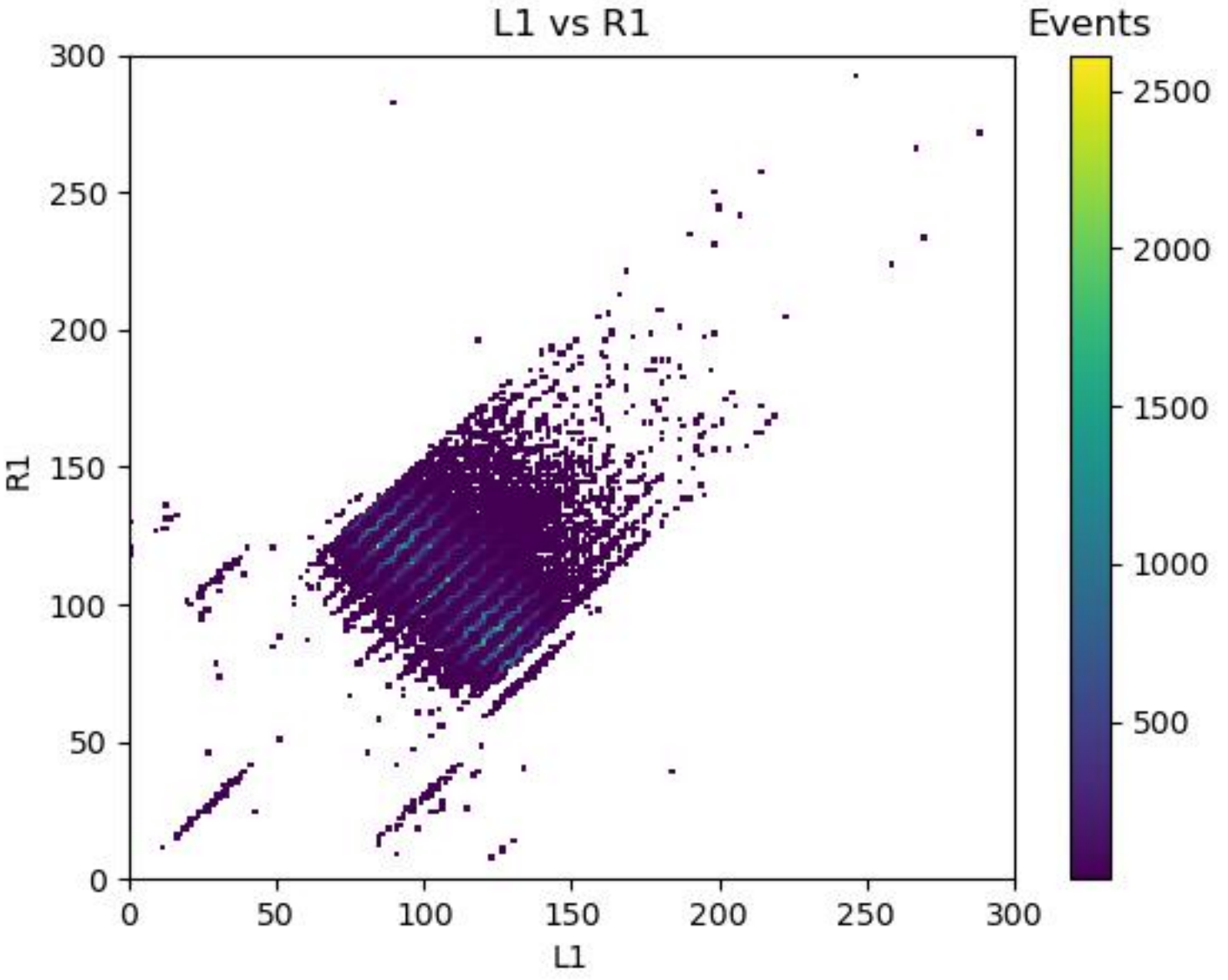

(High Binning) Asymmetry: L3 vs L4
Events
120
100
80
60
40
20
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X

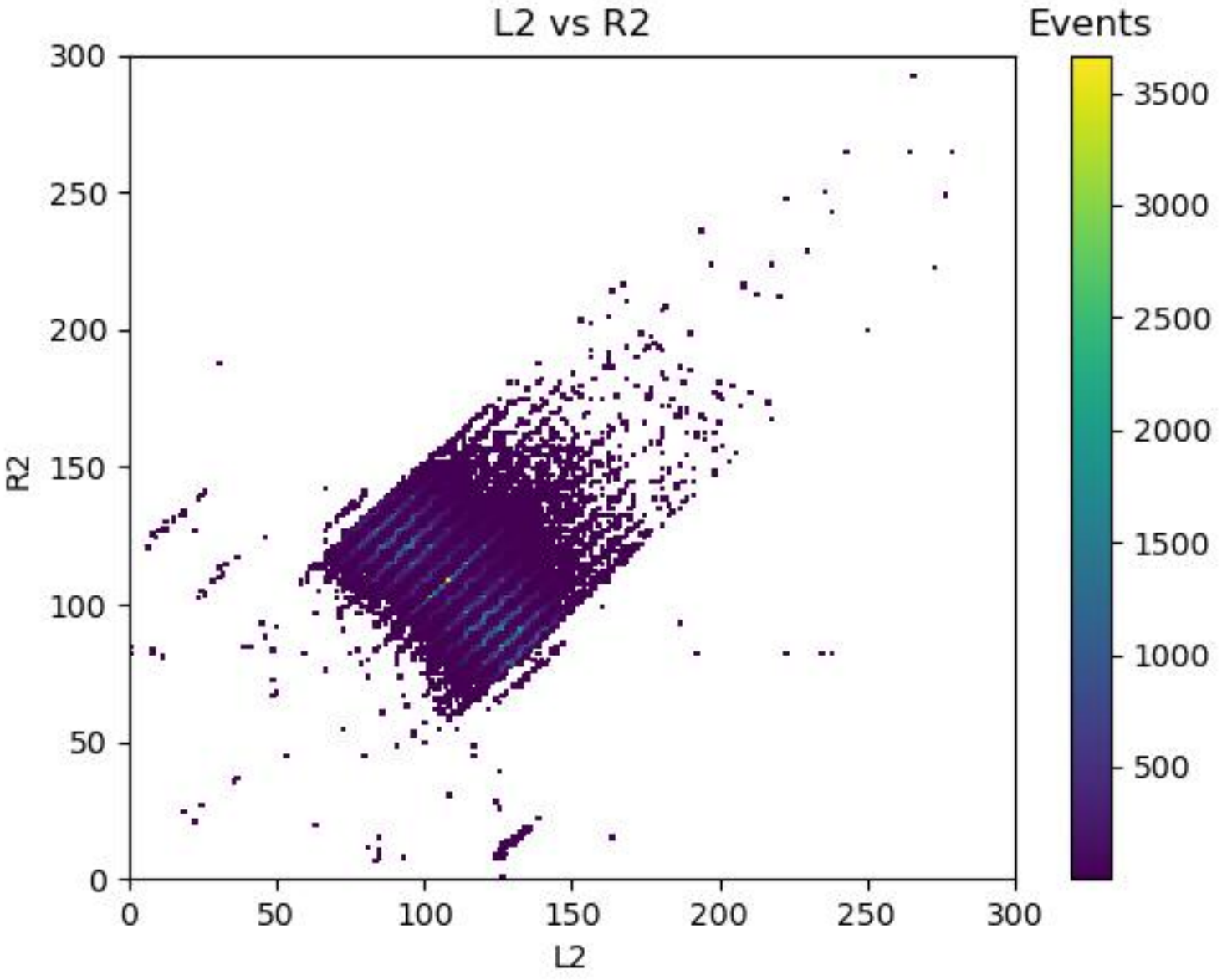

(High Binning) Asymmetry: L1 vs L3
Events
600
500
400
300
200
100
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X

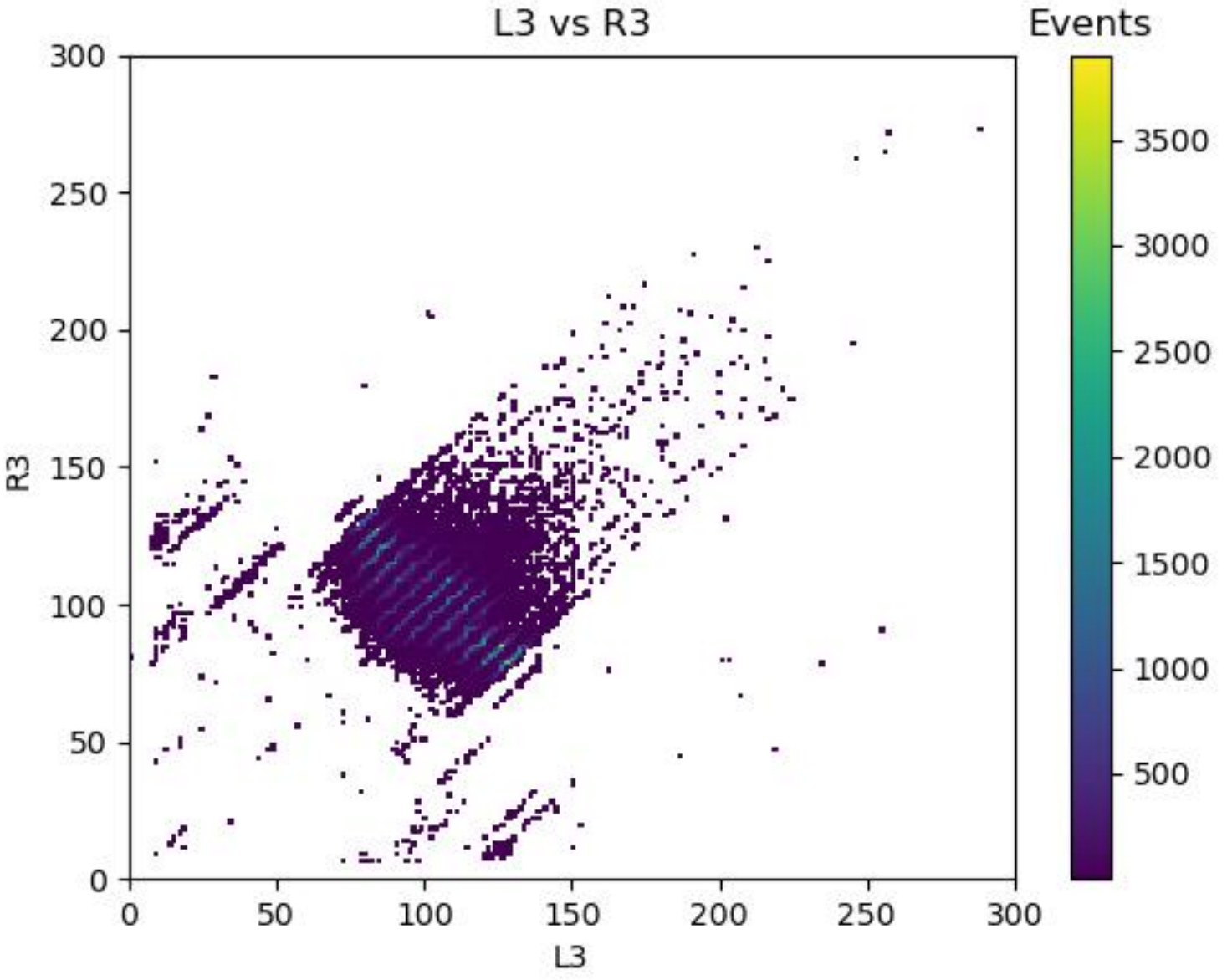

(High Binning) Asymmetry: L2 vs L4
Events
Asymmetry in Y
Asymmetry in X
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
300
250
200
150
100
50

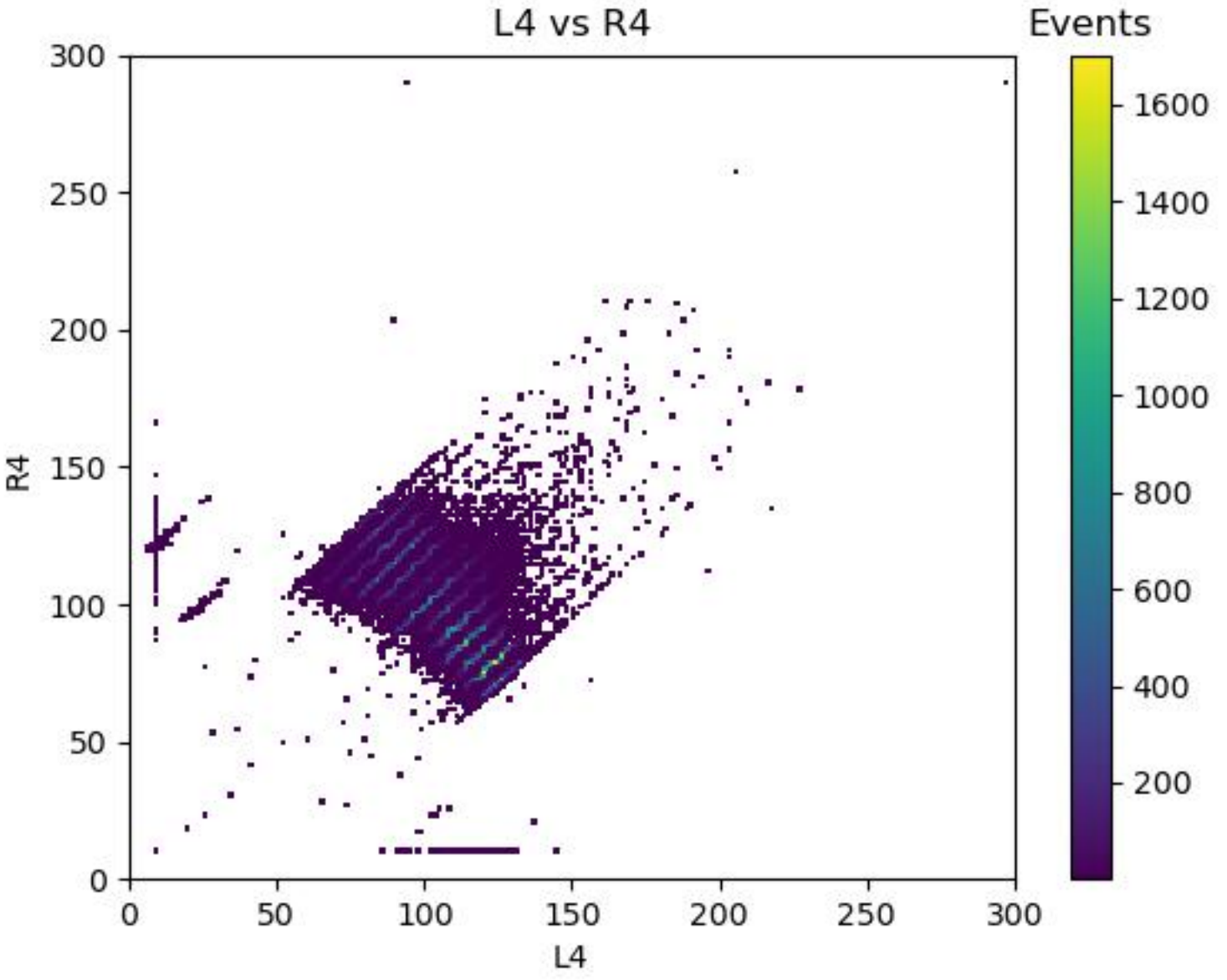

(High Binning) Asymmetry: L1 vs L4
Events
160
140
120
100
80
60
40
20
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X

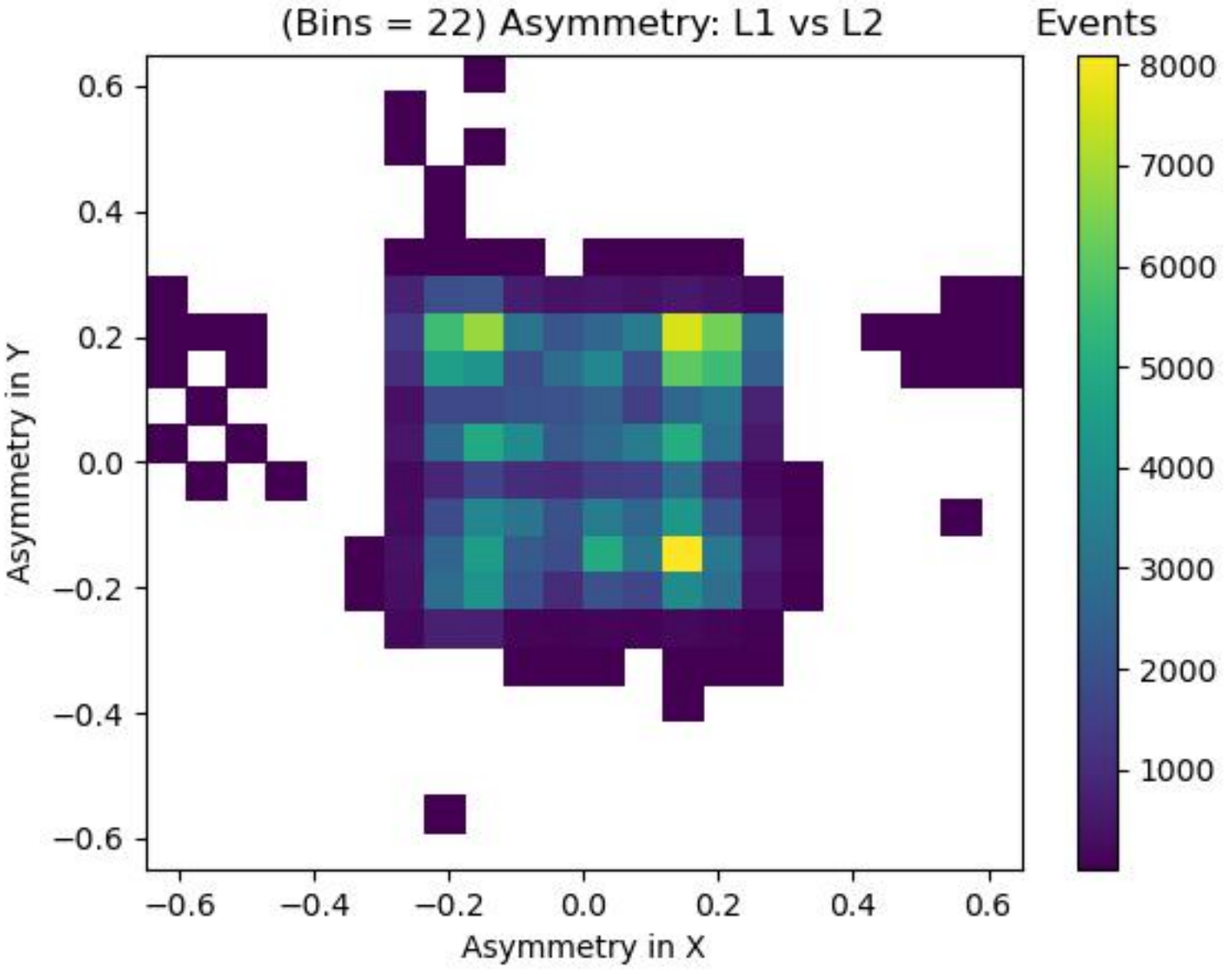

(High Binning) Asymmetry: L2 vs L3
Events
1000
800
600
400
200
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X

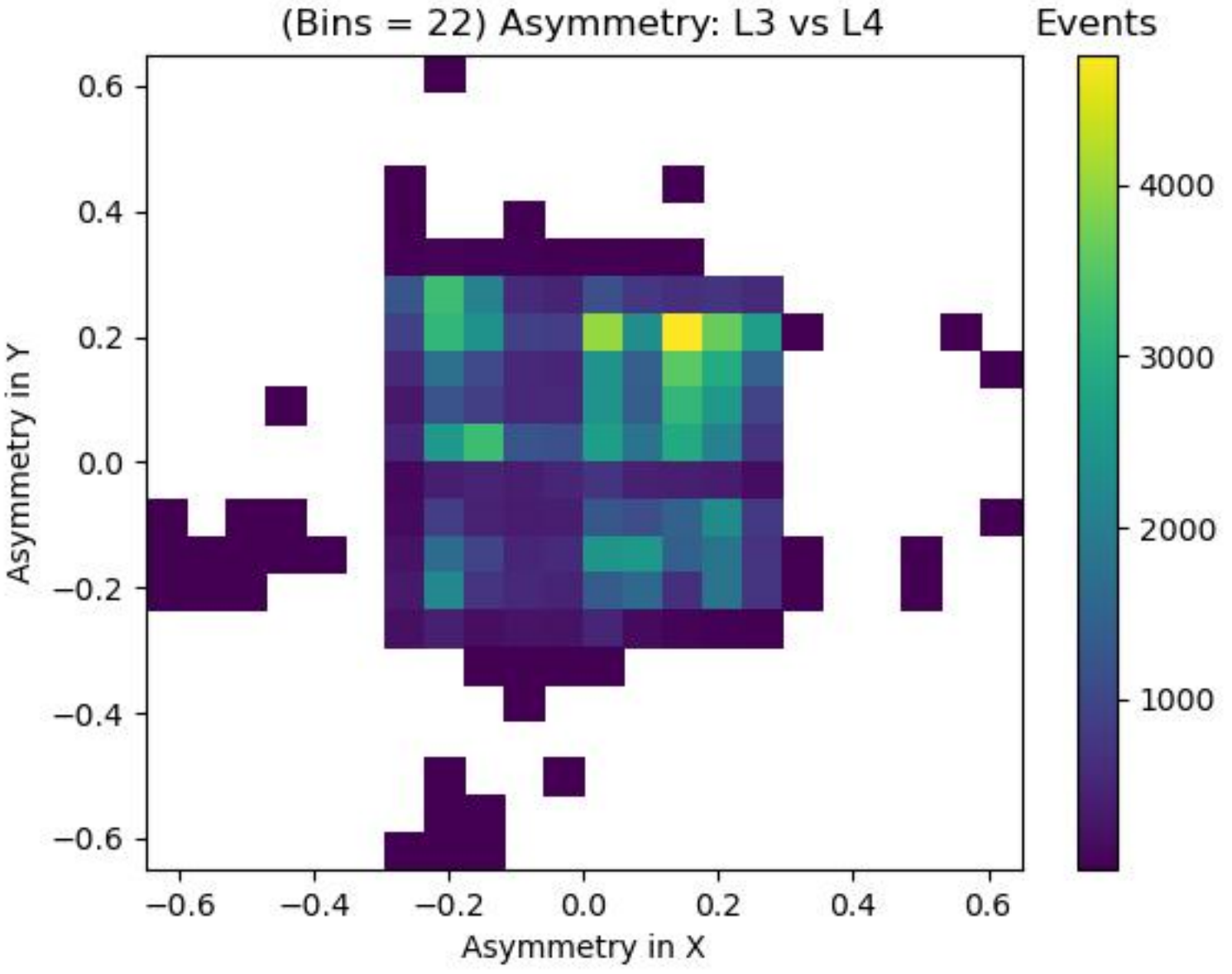

L1 vs R1
Events
2500
2000
1500
1000
500
300
250
200
150
100
50
0
R1
0
50
100
150
200
250
300
L1

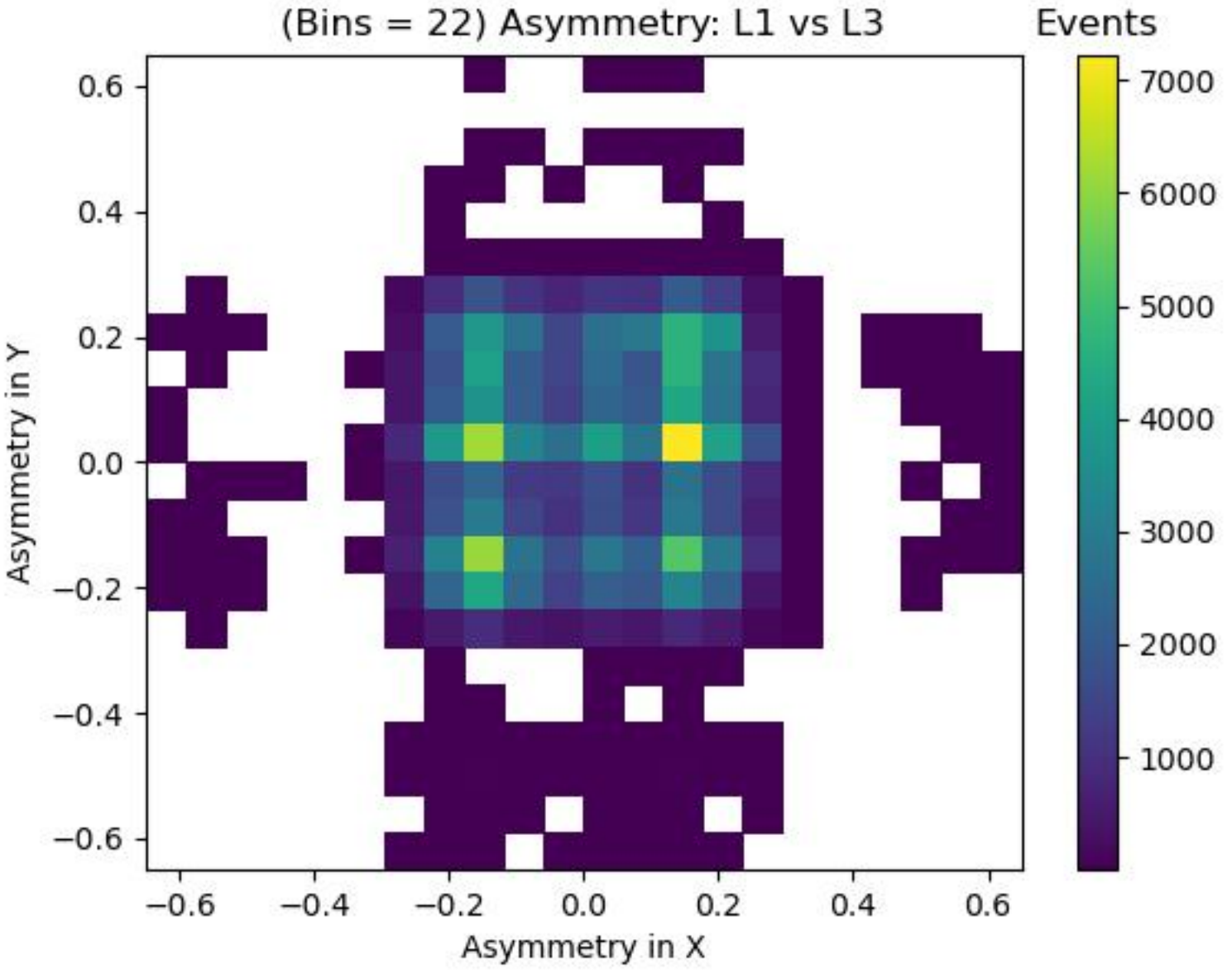

L2 vs R2
Events
R2
L2
0
50
100
150
200
250
300
500
1000
1500
2000
2500
3000
3500

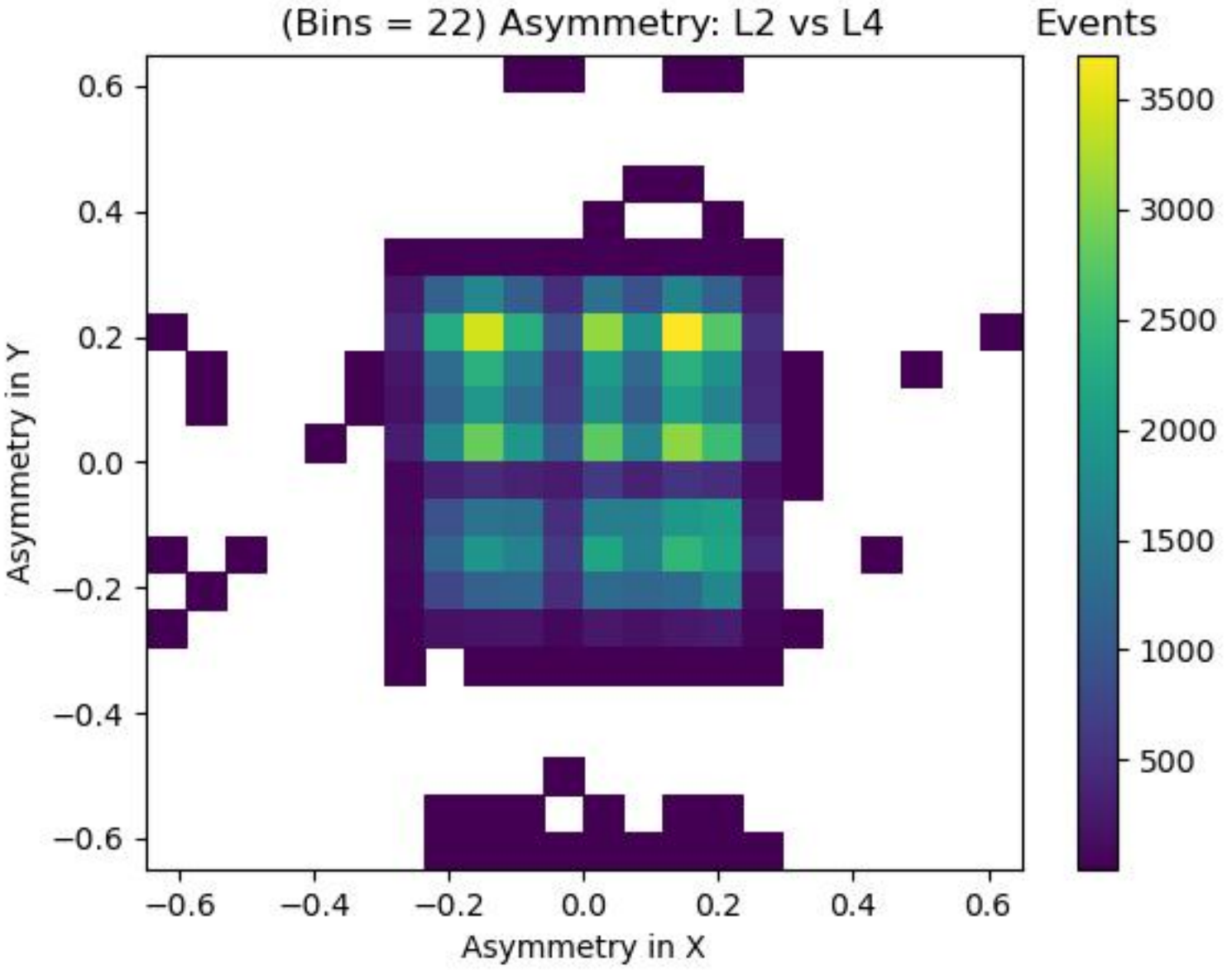

L3 vs R3
Events
300
250
200
150
100
50
0
R3
0
50
100
150
200
250
300
L3
3500
3000
2500
2000
1500
1000
500

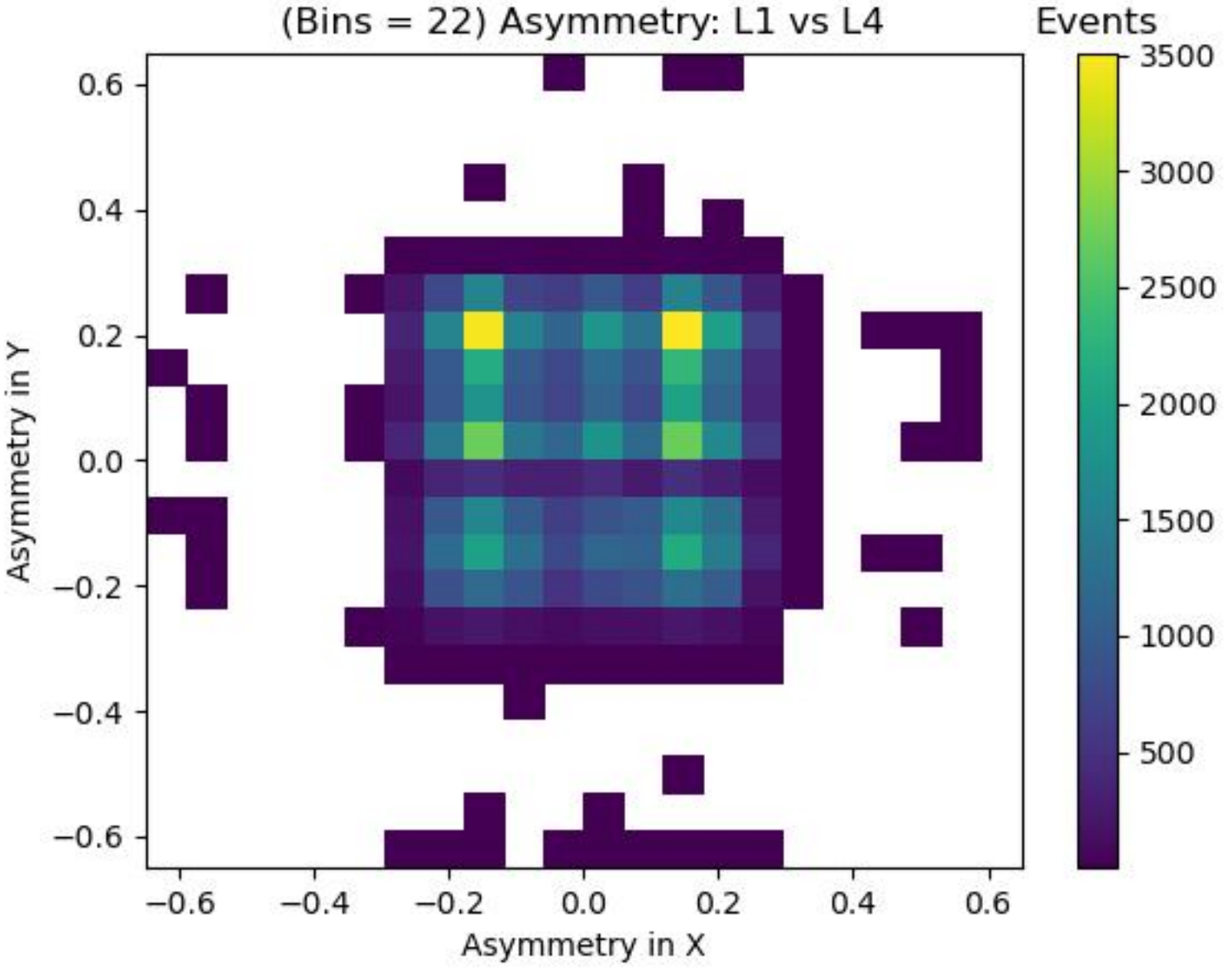

L4 vs R4
Events
300
250
200
150
100
50
0
R4
0
50
100
150
200
250
300
L4
1600
1400
1200
1000
800
600
400
200

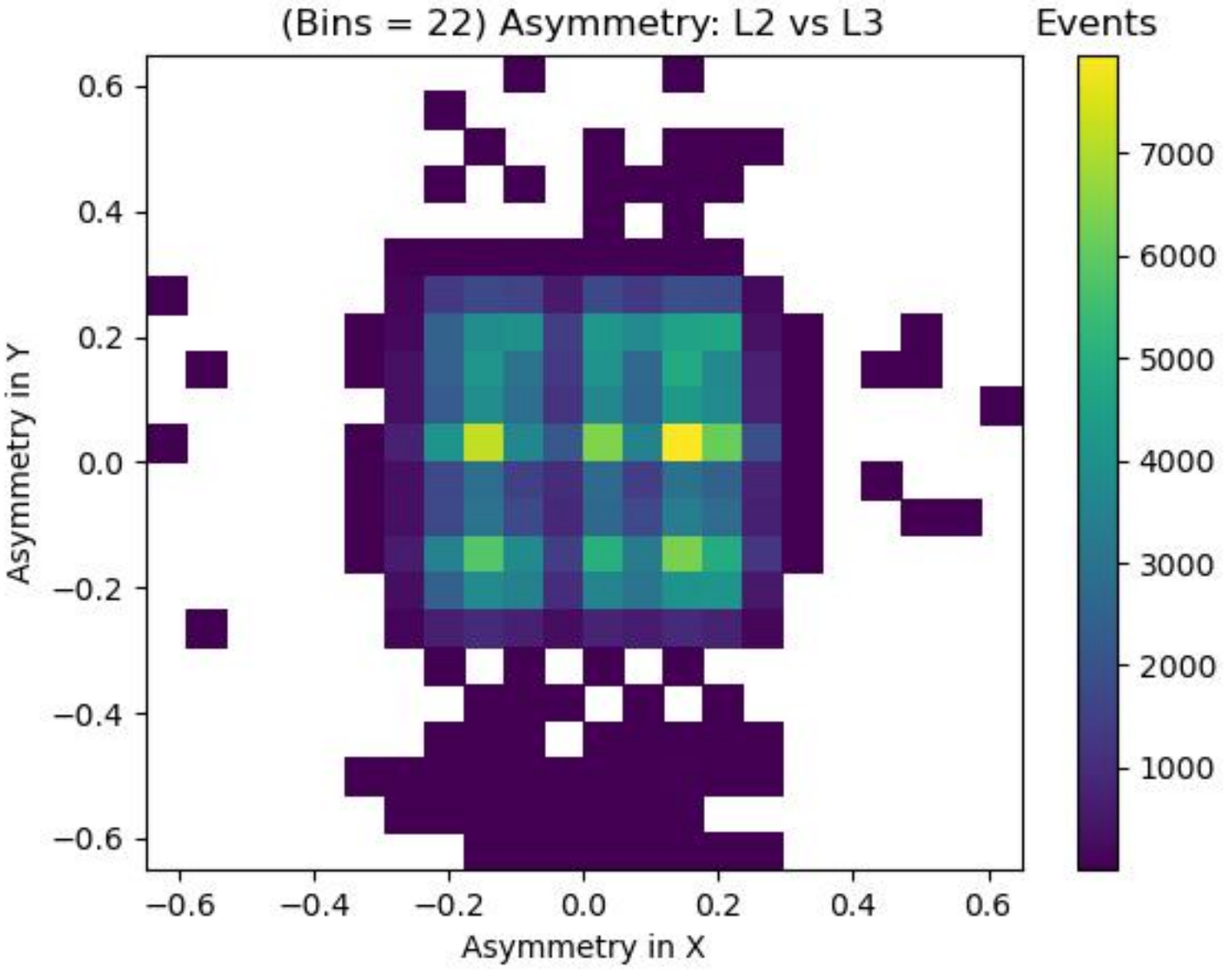

(Bins = 22) Asymmetry: L1 vs L2
Events
8000
7000
6000
5000
4000
3000
2000
1000
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X


(Bins = 22) Asymmetry: L3 vs L4
Events
4000
3000
2000
1000
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X


(Bins = 22) Asymmetry: L1 vs L3
Events
7000
6000
5000
4000
3000
2000
1000
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X


(Bins = 22) Asymmetry: L2 vs L4
Events
3500
3000
2500
2000
1500
1000
500
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X


(Bins = 22) Asymmetry: L1 vs L4
Events
3500
3000
2500
2000
1500
1000
500
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X


(Bins = 22) Asymmetry: L2 vs L3
Events
7000
6000
5000
4000
3000
2000
1000
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Asymmetry in Y
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
Asymmetry in X