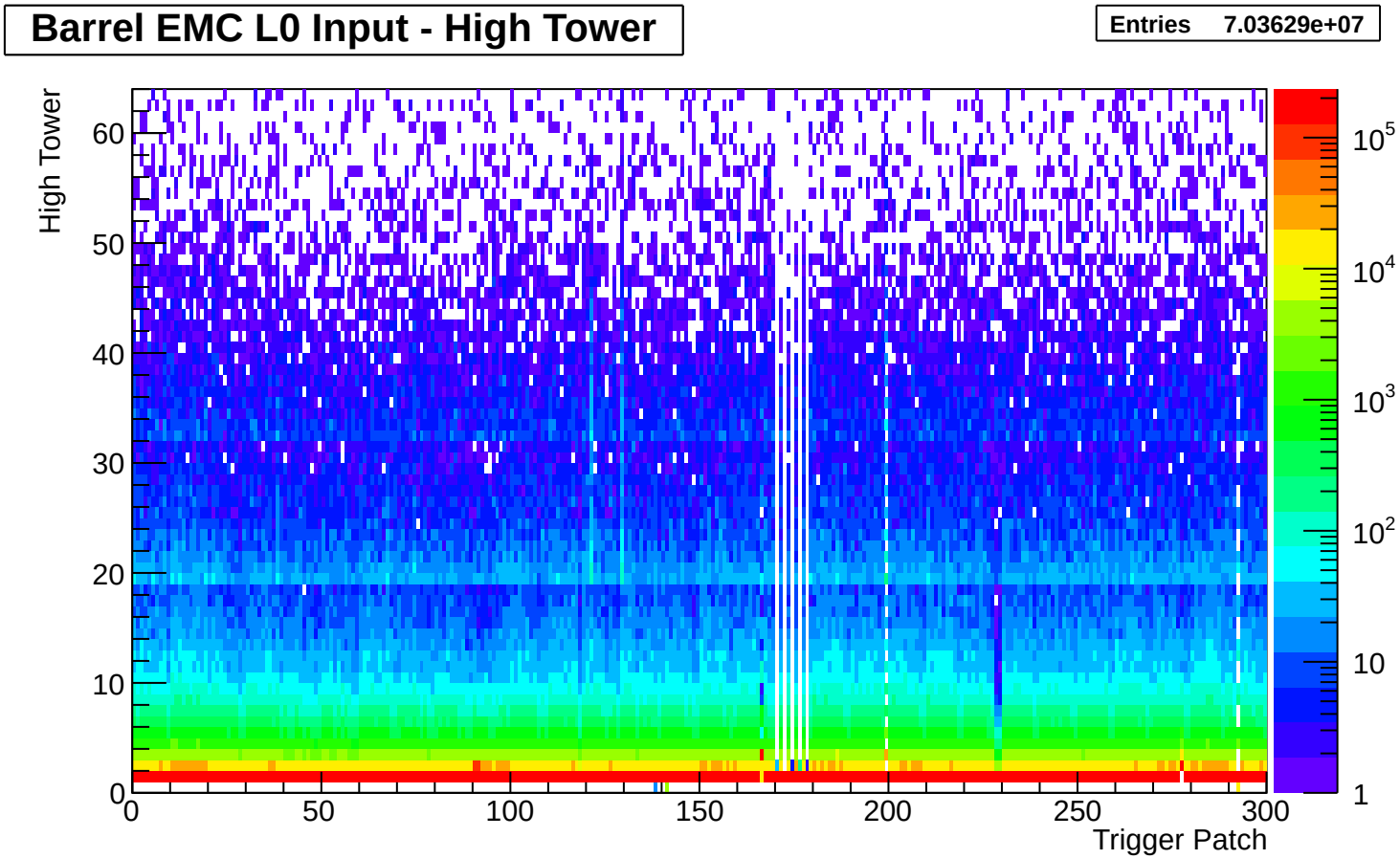
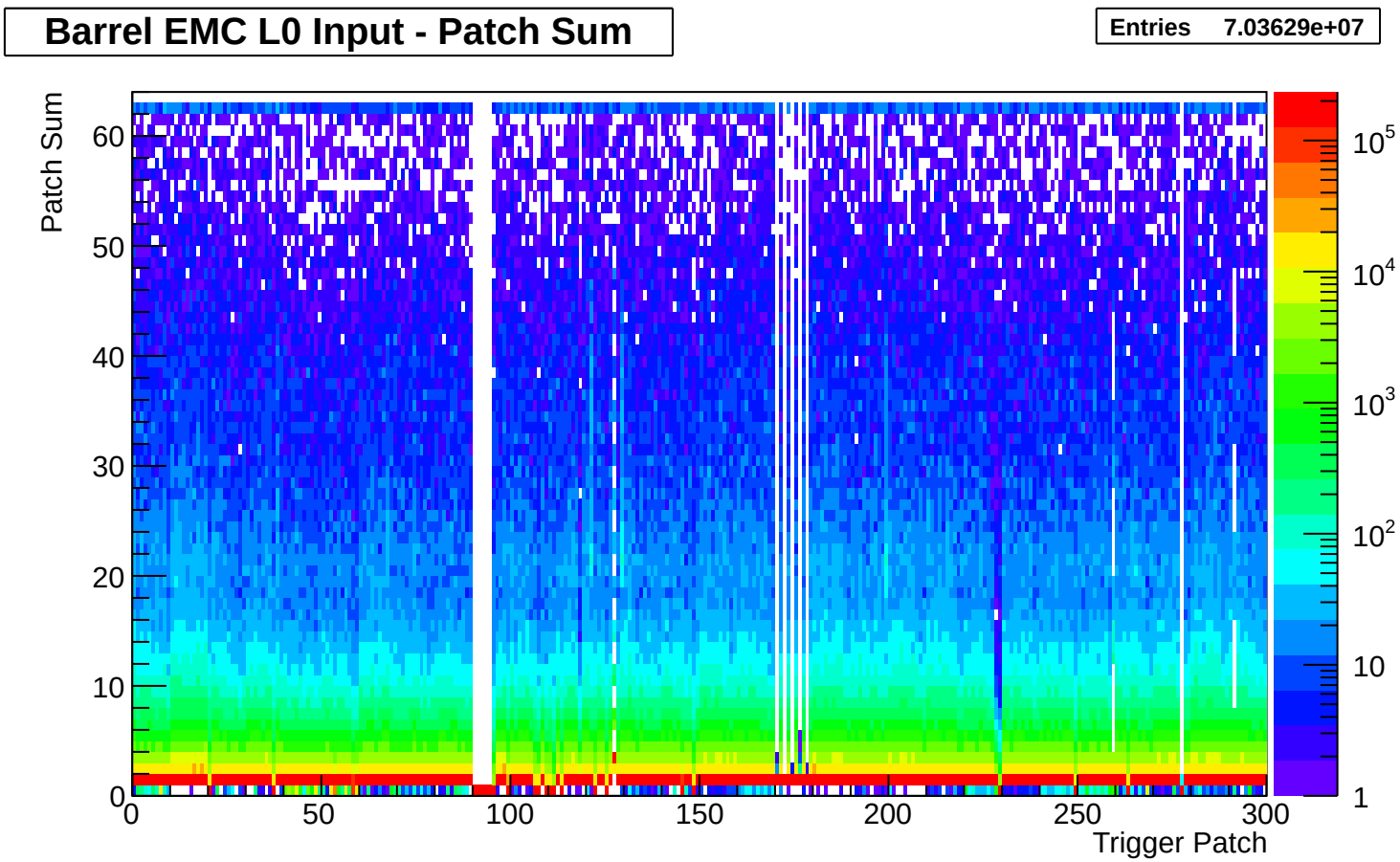
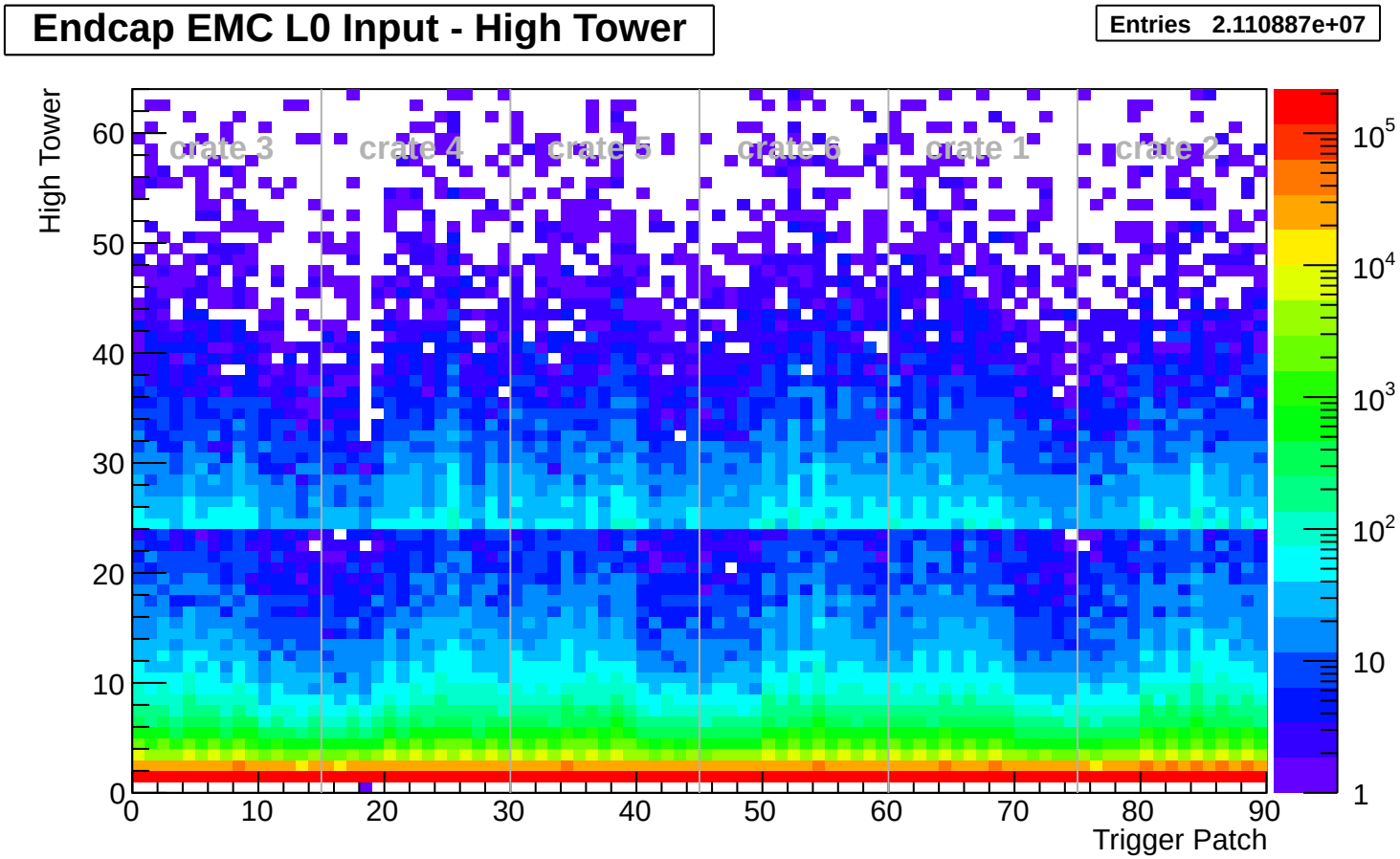
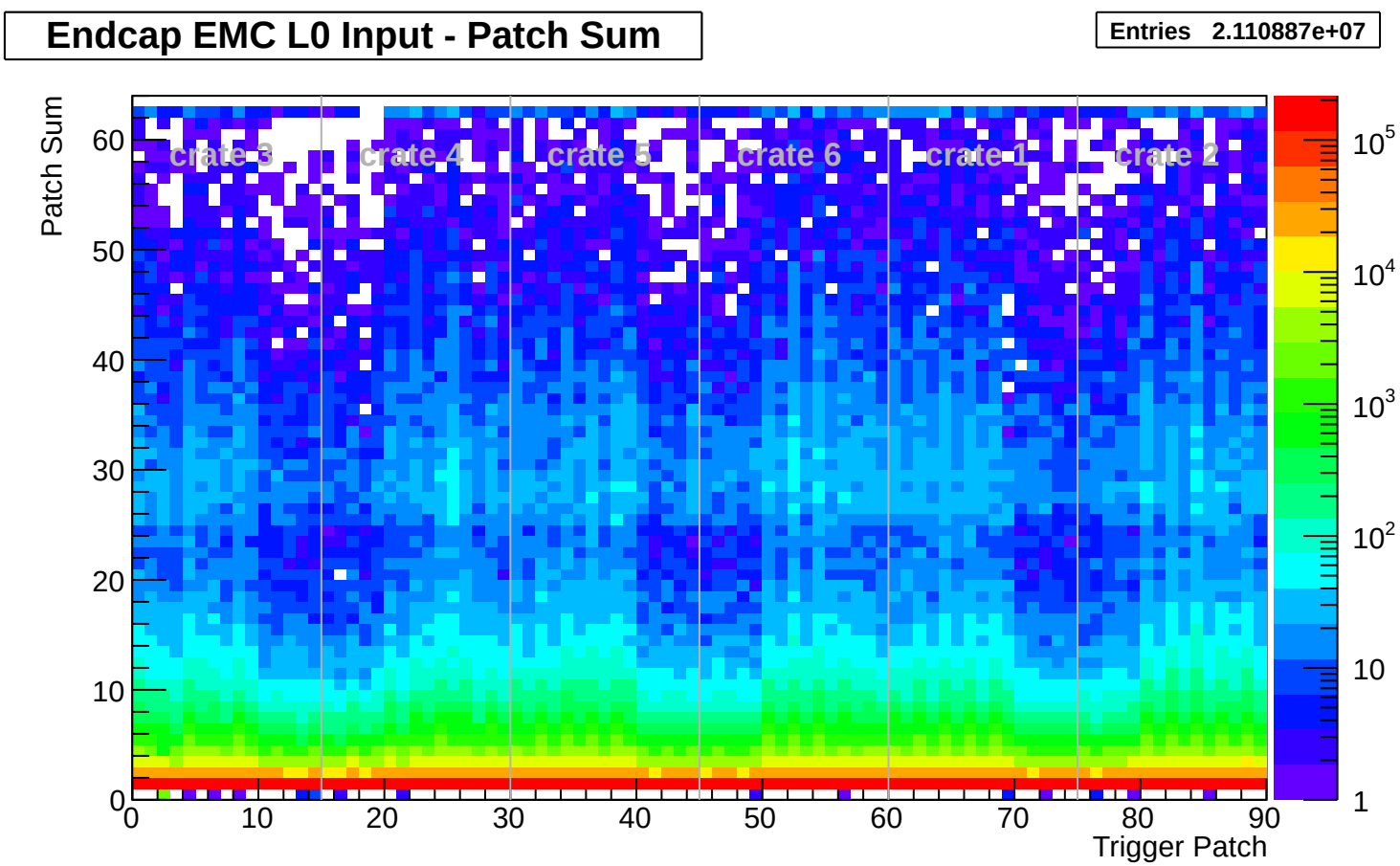
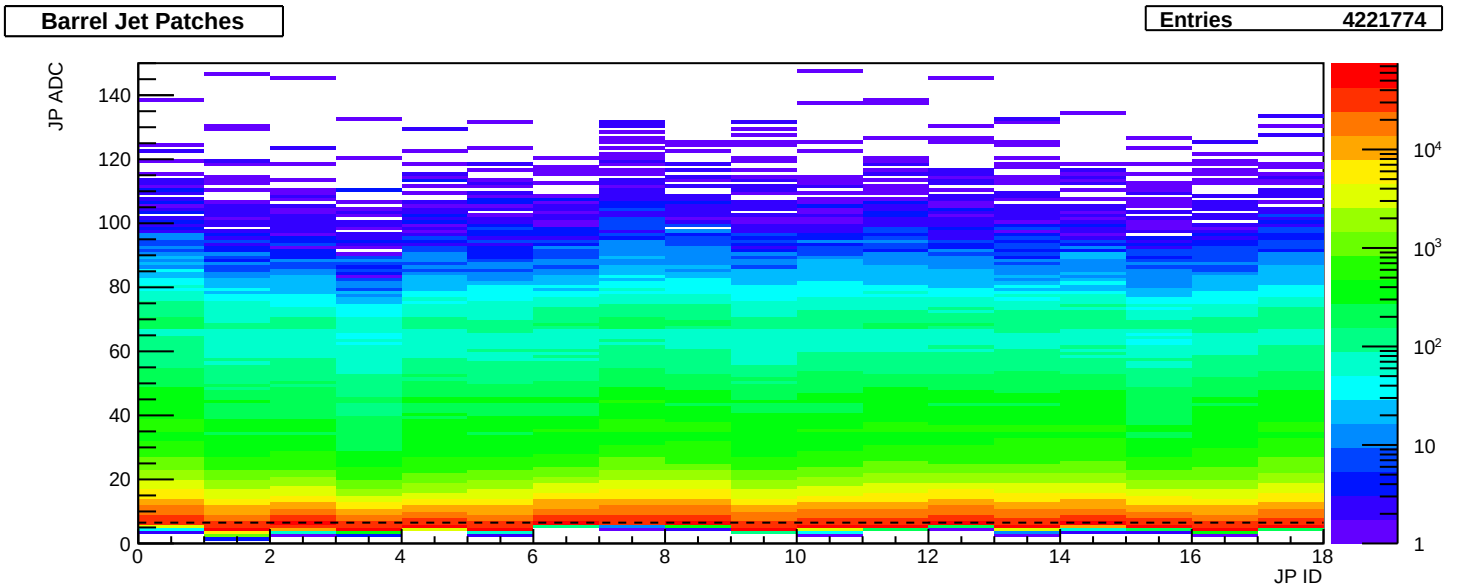
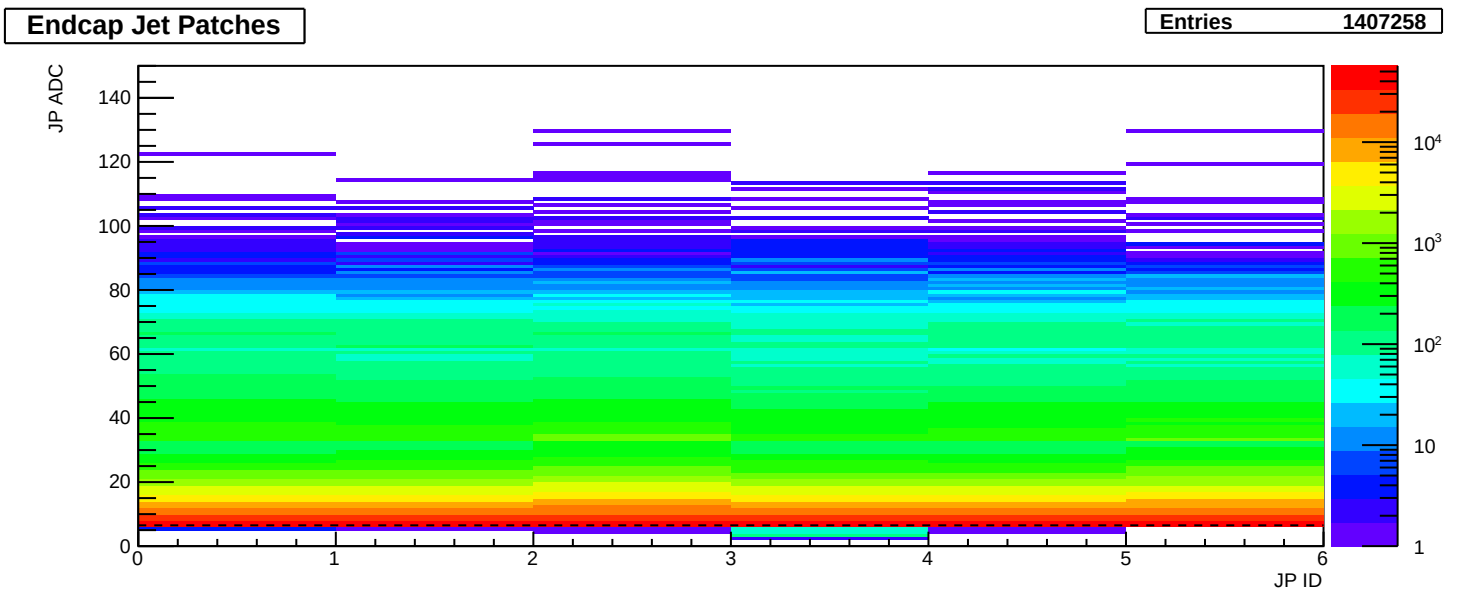

Barrel EMC L0 Input - High Tower
Entries 7.03629e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

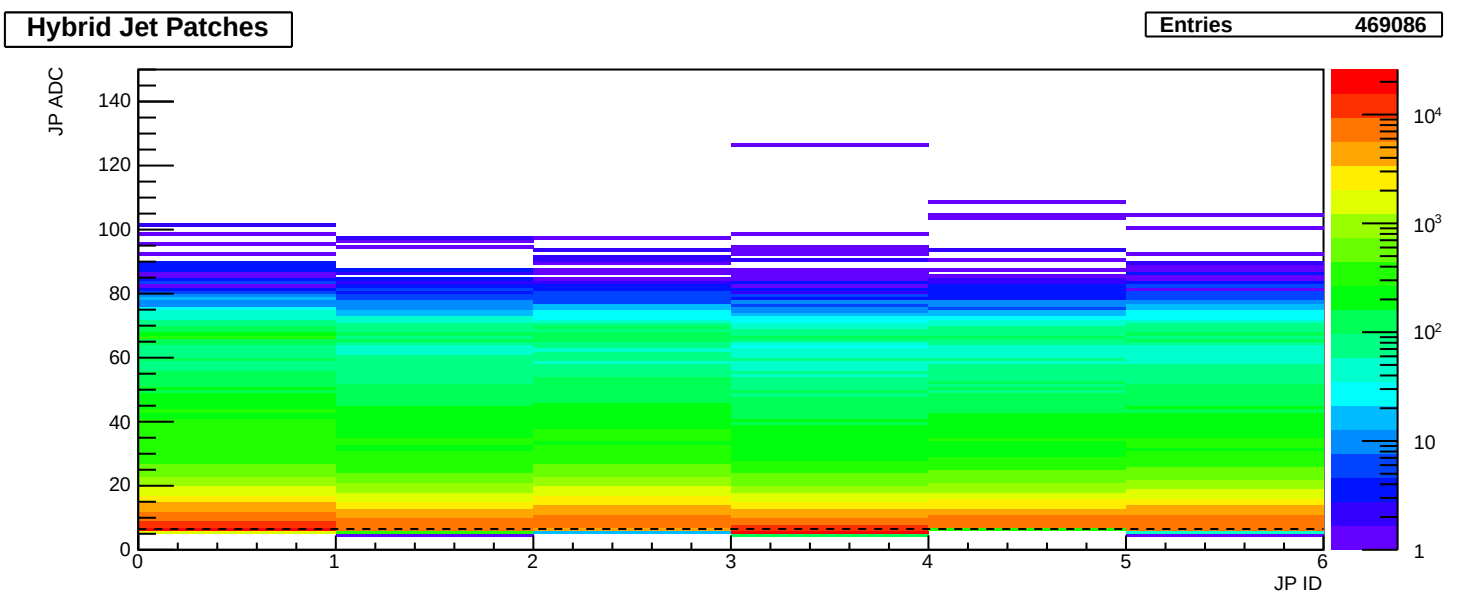

Barrel EMC L0 Input - Patch Sum
Entries 7.03629e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

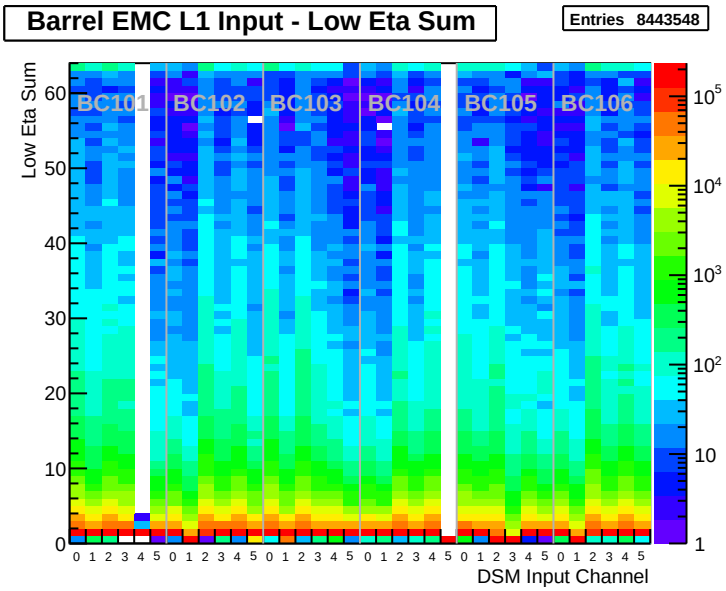

Endcap EMC L0 Input - High Tower
Entries 2.110887e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

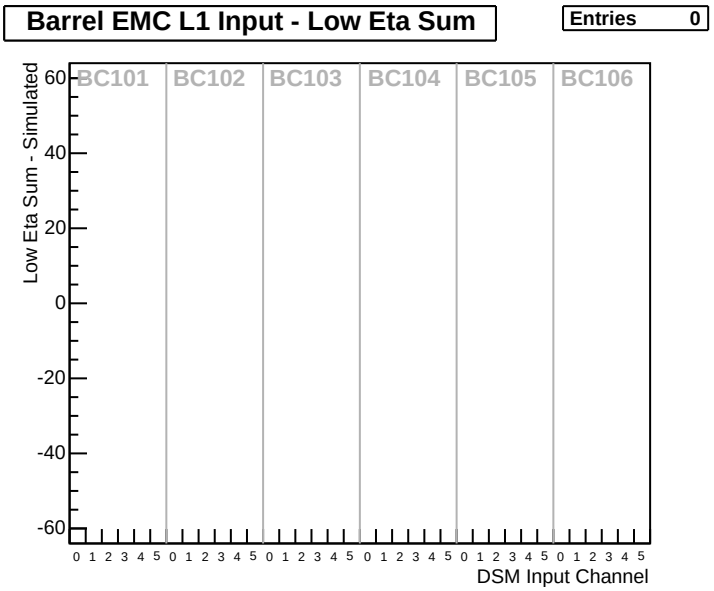

Endcap EMC L0 Input - Patch Sum
Entries 2.110887e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

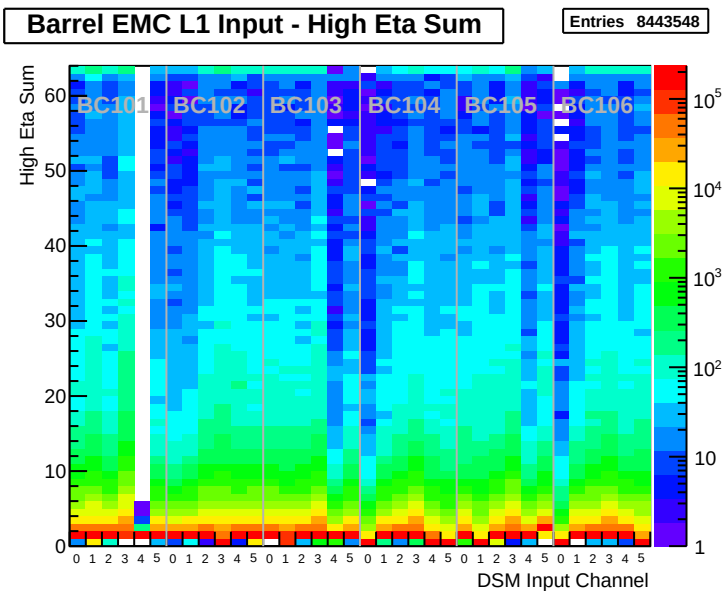

Barrel Jet Patches
Entries 4221774
JP ADC
JP ID

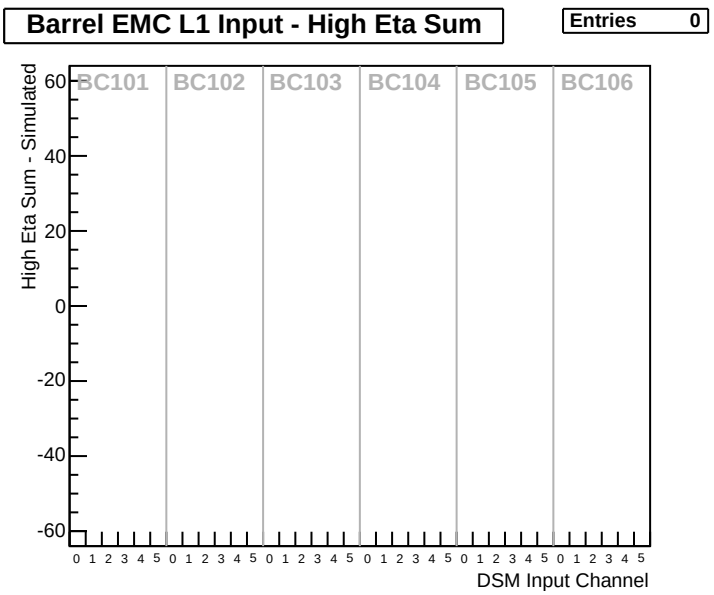

Endcap Jet Patches
Entries 1407258
JP ADC
JP ID

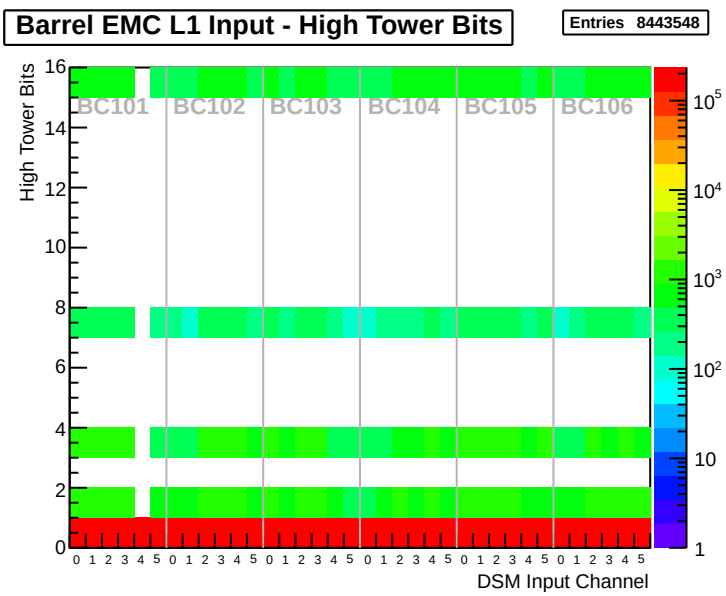

Hybrid Jet Patches
Entries 469086
JP ADC
JP ID

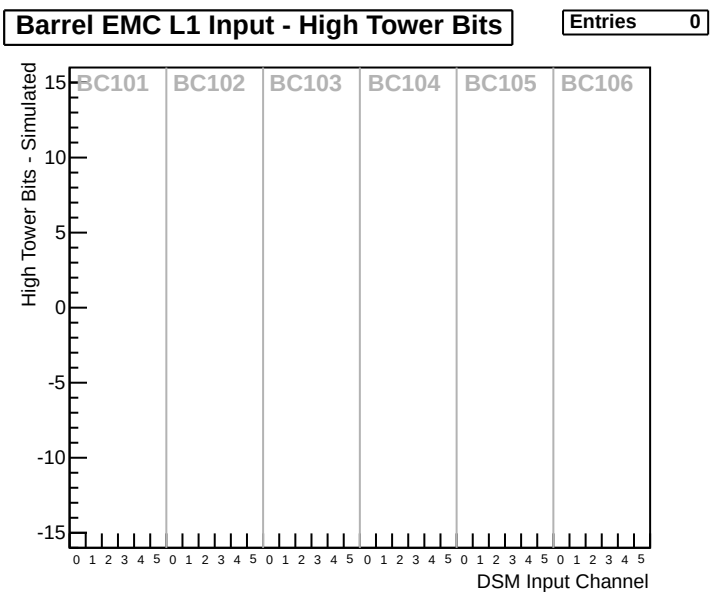

Barrel EMC L1 Input - Low Eta Sum
Entries 8443548
Low Eta Sum
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

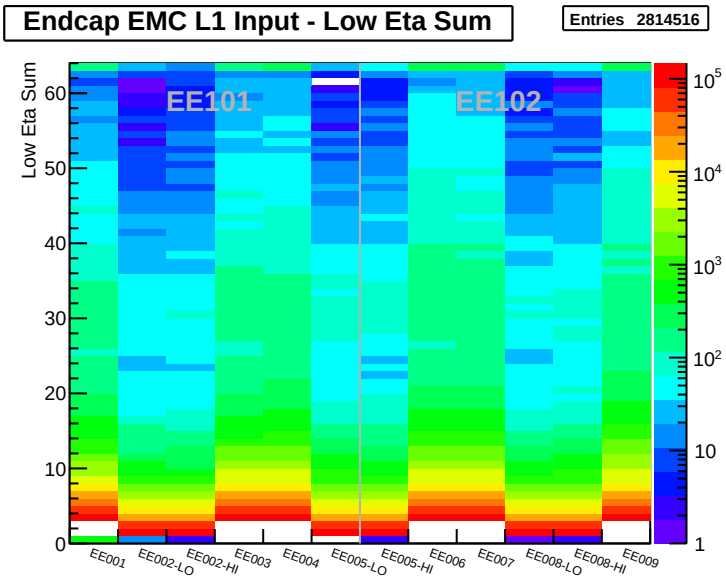

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

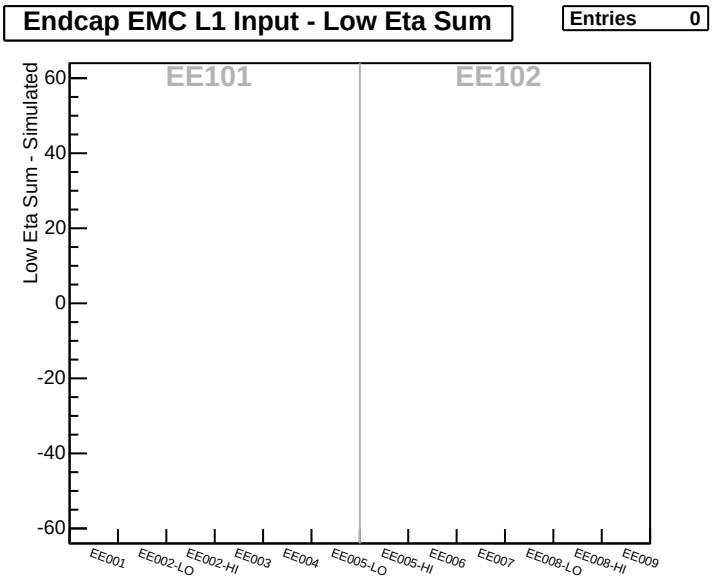

Barrel EMC L1 Input - High Eta Sum
Entries 8443548
High Eta Sum
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

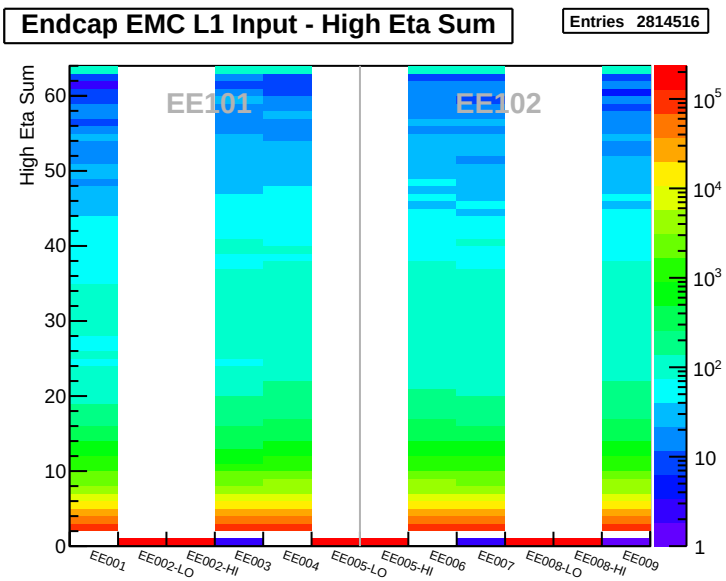

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

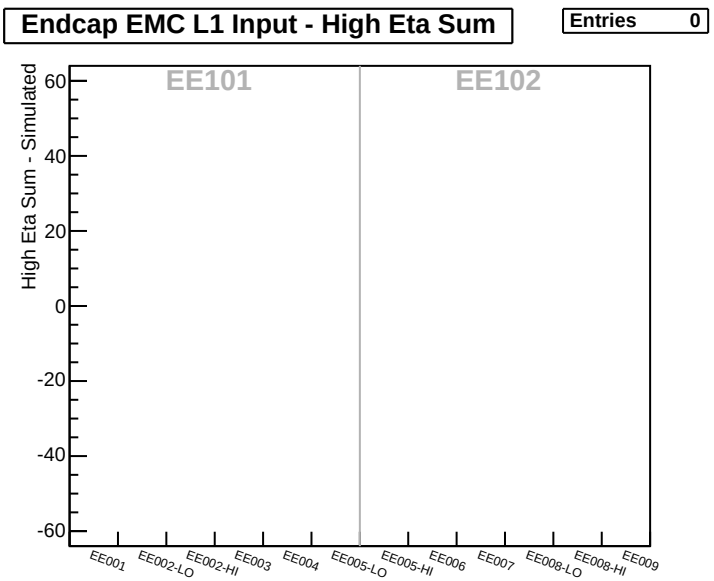

Barrel EMC L1 Input - High Tower Bits
Entries 8443548
High Tower Bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

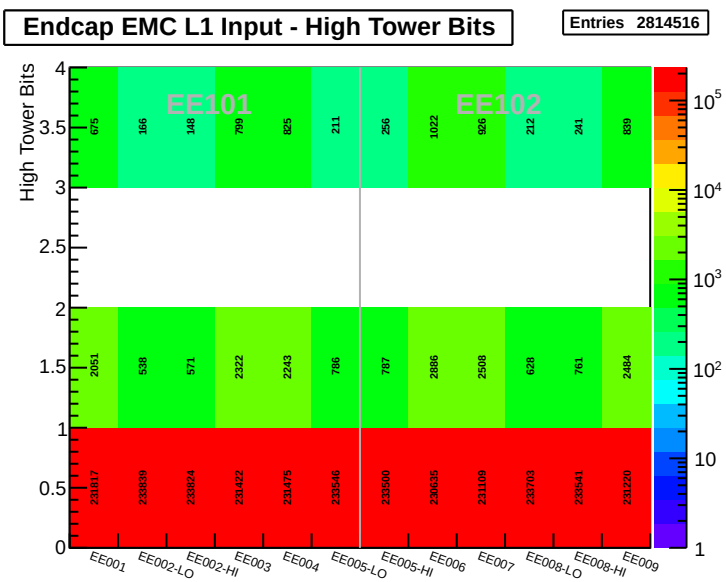

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

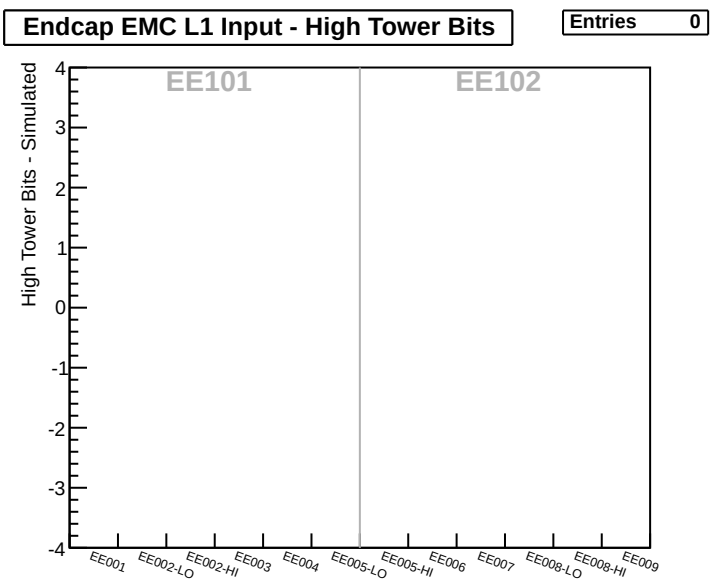

Endcap EMC L1 Input - Low Eta Sum
Entries 2814516
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

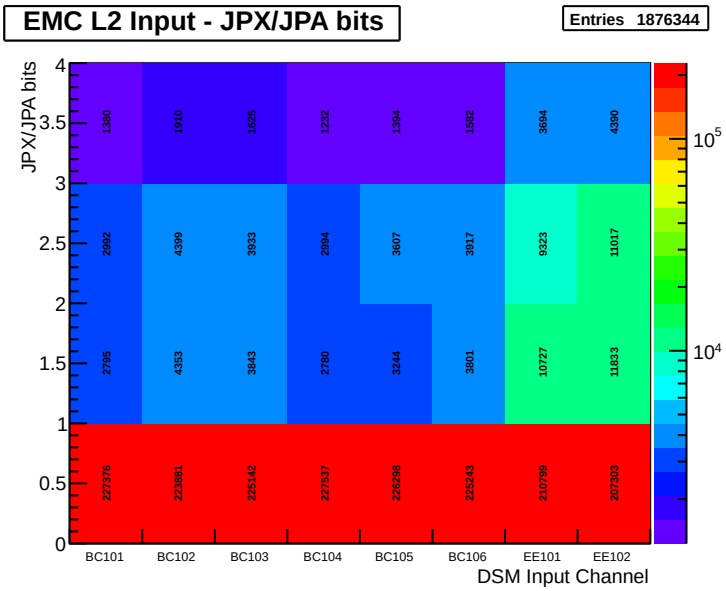

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

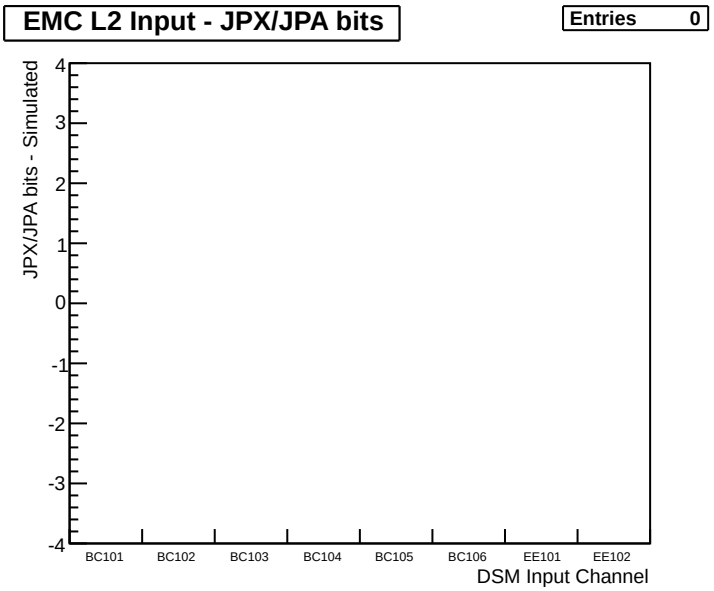

Endcap EMC L1 Input - High Eta Sum
Entries 2814516
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

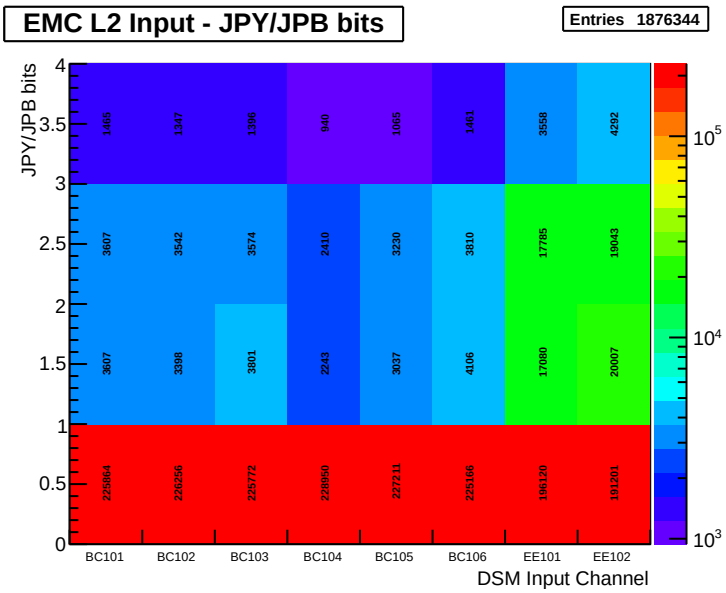

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

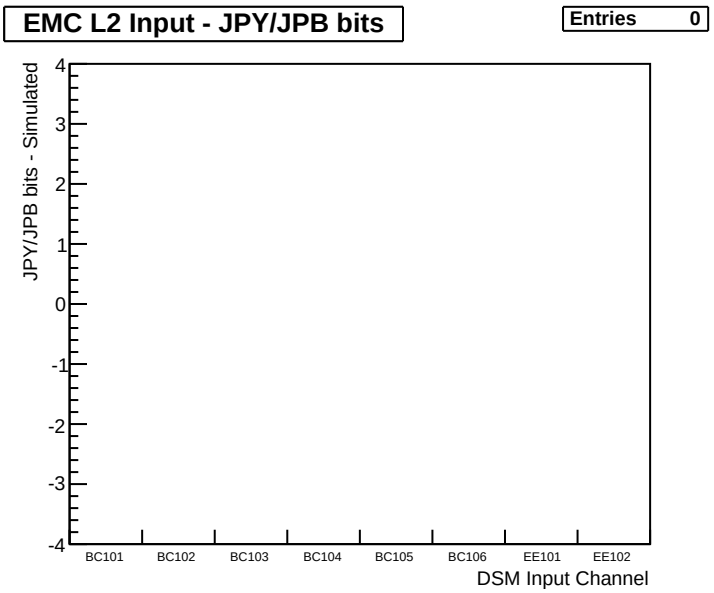

Endcap EMC L1 Input - High Tower Bits
Entries 2814516
High Tower Bits
EE101
EE102
675 166 148 799 825 211 256 1022 926 212 241 839
2051 538 571 2322 2243 786 787 2886 2508 628 761 2484
231817 233839 233824 231422 231475 233546 233500 230635 231109 233703 233541 231220
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

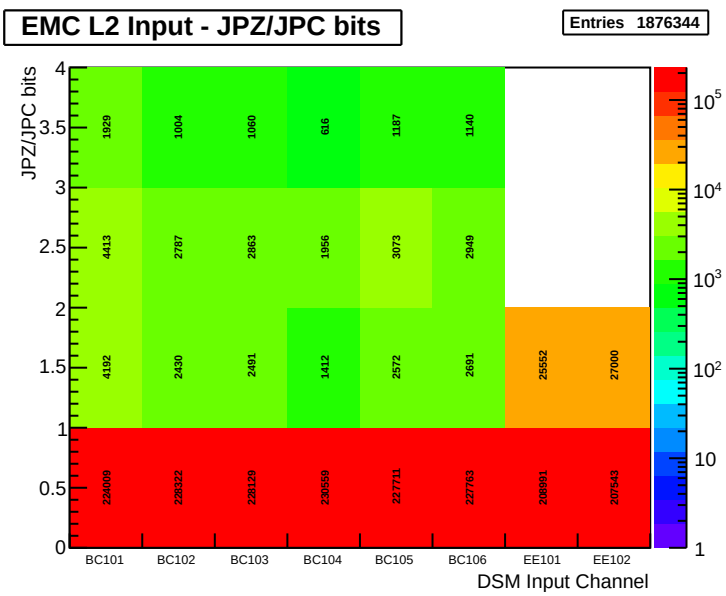

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

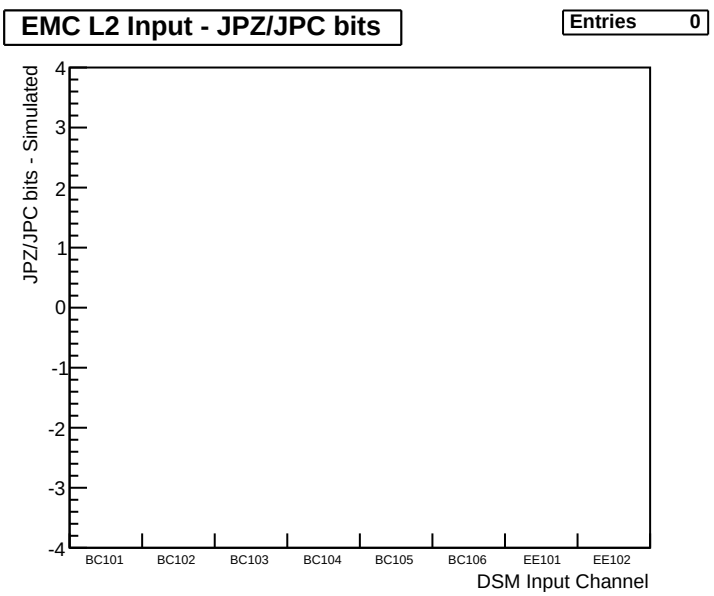

EMC L2 Input - JPX/JPA bits
Entries 1876344
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1380 1910 1625 1232 1394 1582 3694 4390
2992 4399 3933 2994 3607 3917 9323 11017
2795 4353 3843 2780 3244 3801 10727 11833
227376 223881 225142 227537 226288 225243 210799 207303

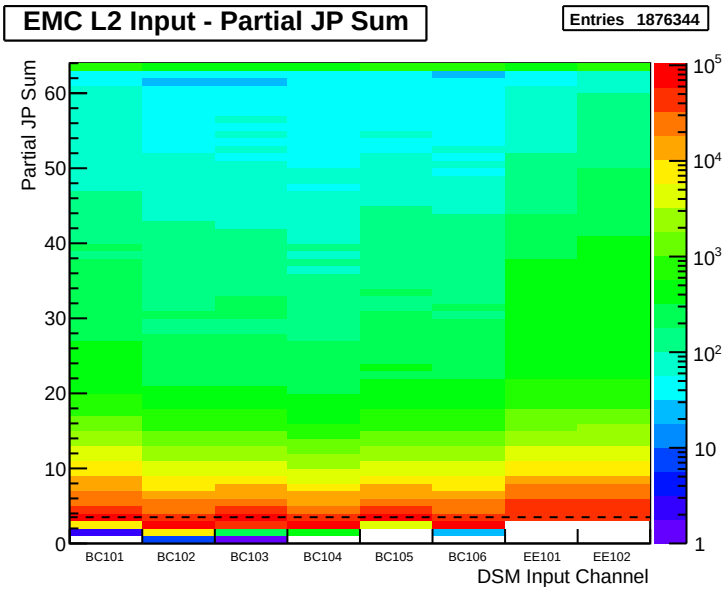

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

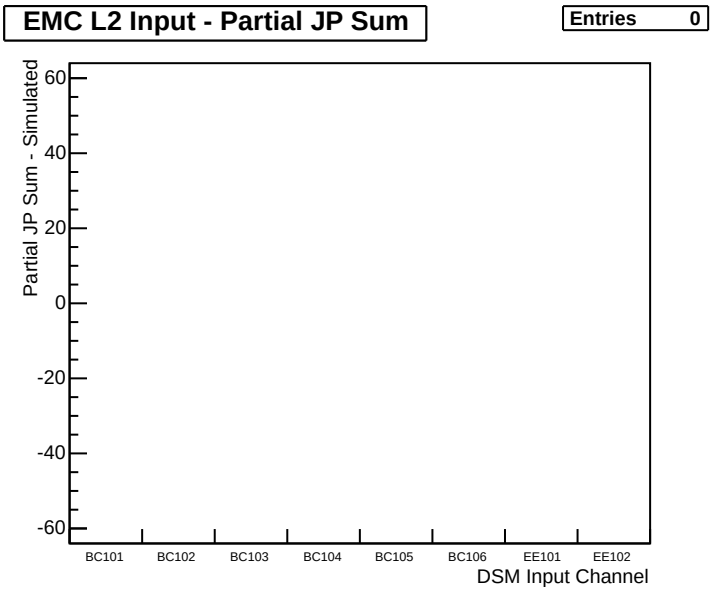

EMC L2 Input - JPY/JPB bits
Entries 1876344
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1465 1347 1396 940 1065 1461 3558 4292
3607 3542 3574 2410 3230 3810 17785 19043
3607 3398 3801 2243 3037 4106 17080 20007
225864 226256 225772 228950 227211 225166 196120 191201

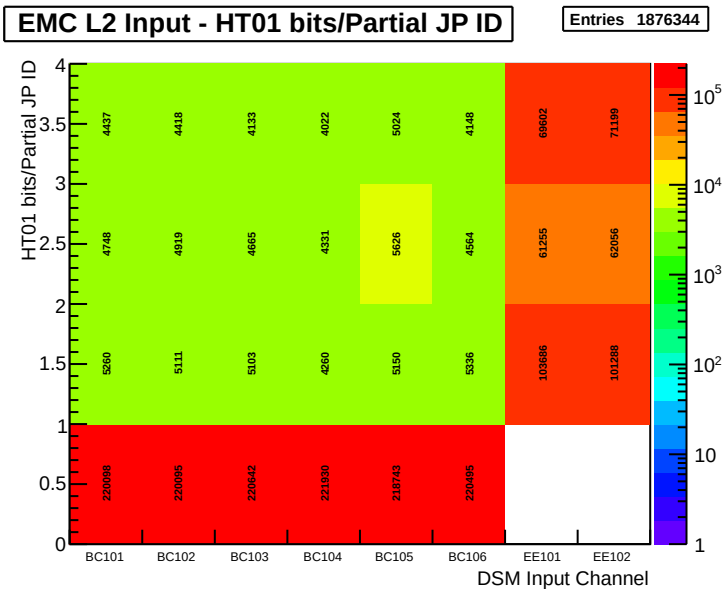

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

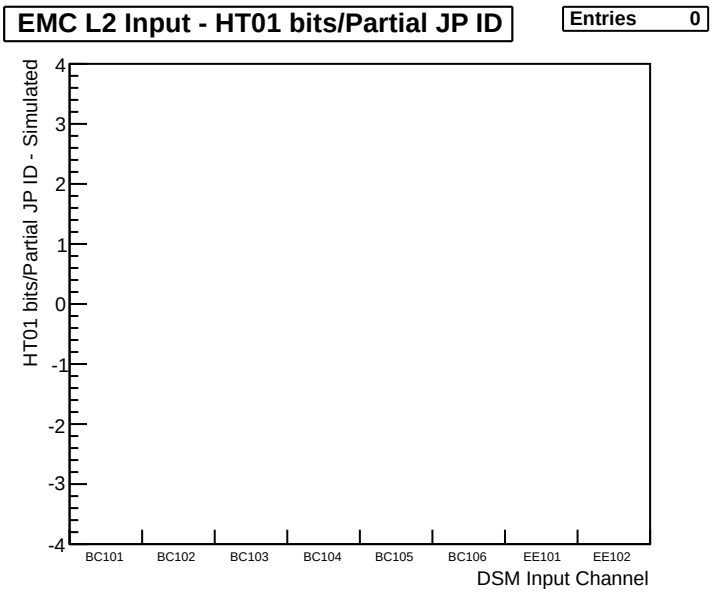

EMC L2 Input - JPZ/JPC bits
Entries 1876344
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1929 1004 1060 616 1187 1140
4413 2787 2863 1956 3073 2949
4192 2430 2491 1412 2572 2691 25552 27000
224009 228322 228129 230559 227711 227763 208991 207543

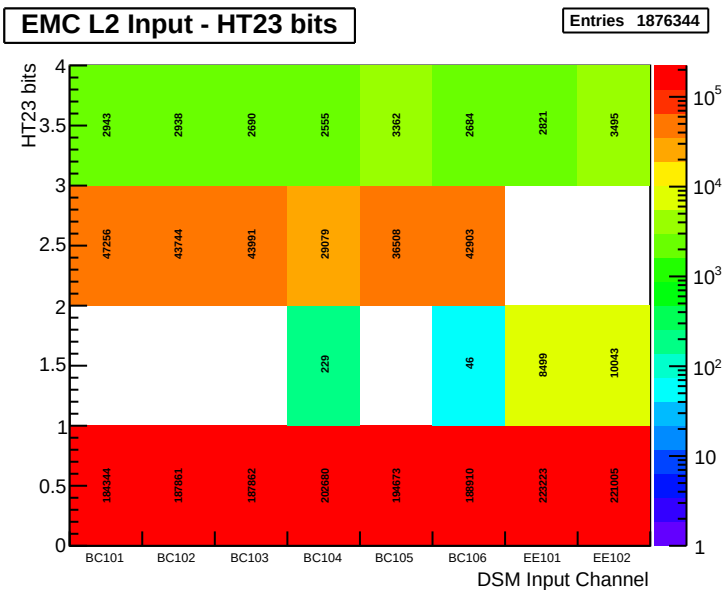

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

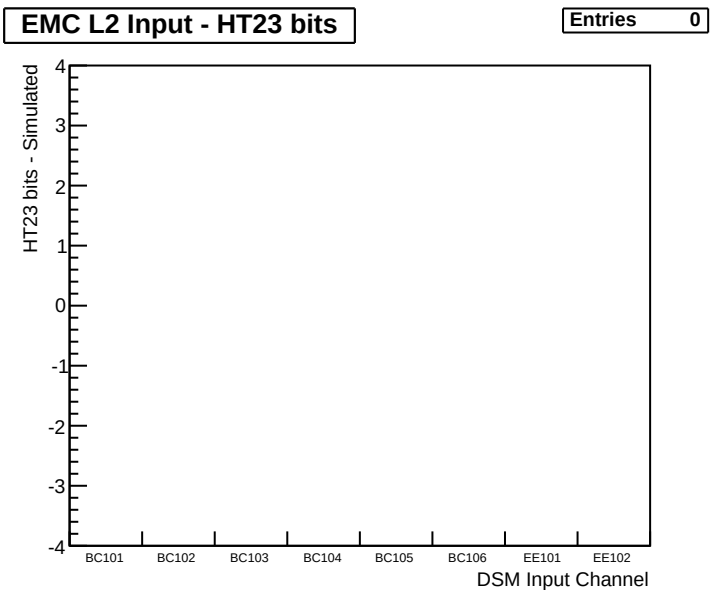

EMC L2 Input - Partial JP Sum
Entries 1876344
Partial JP Sum
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

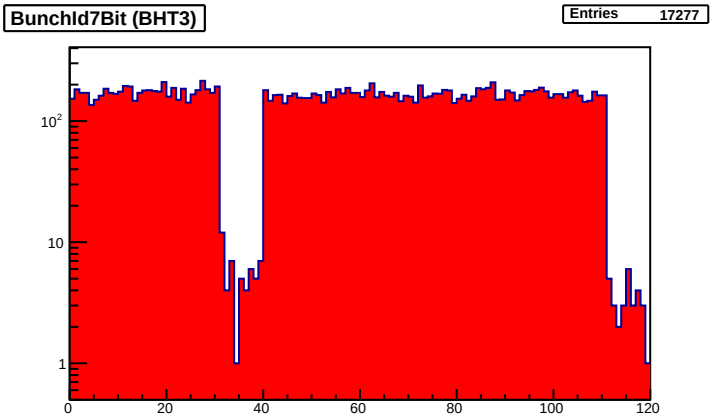

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

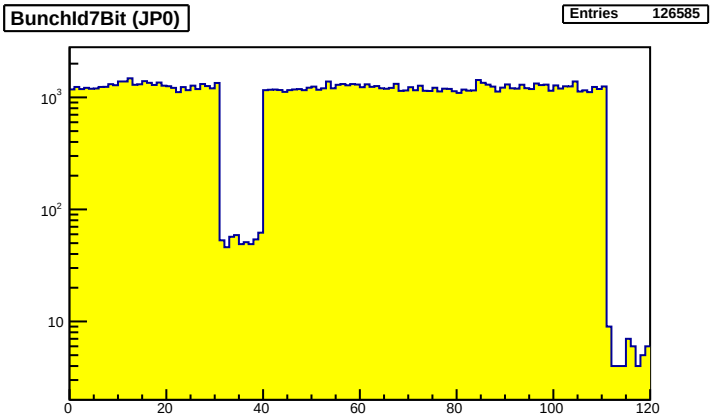

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1876344
HT01 bits/Partial JP ID
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

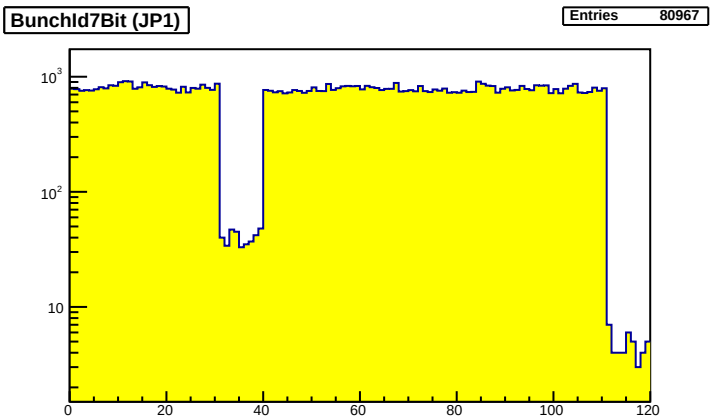

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

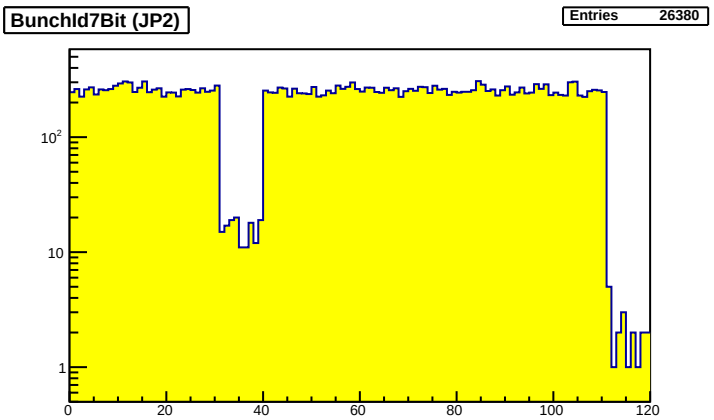

EMC L2 Input - HT23 bits
Entries 1876344
HT23 bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

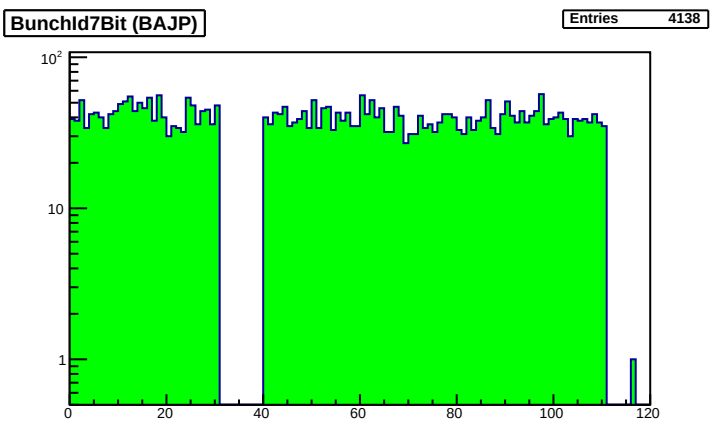

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
EE101
EE102

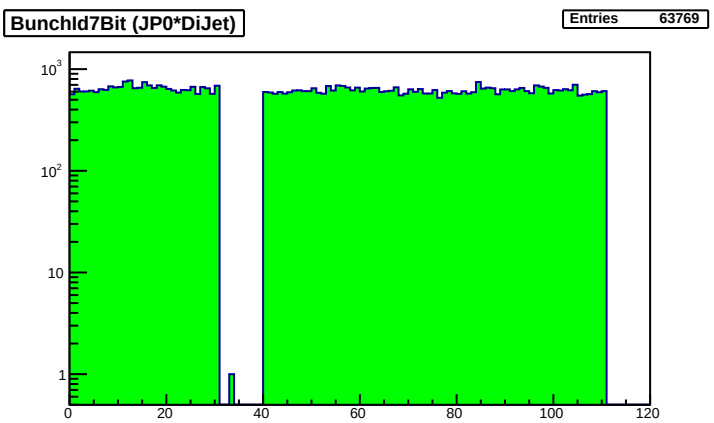

BunchId7Bit (BHT3)
Entries 17277

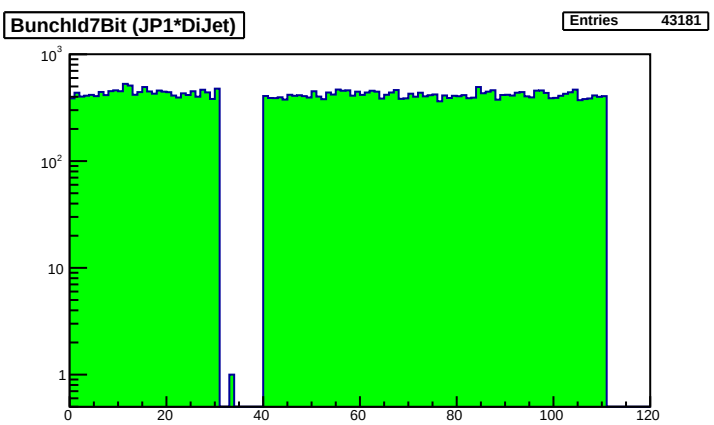

BunchId7Bit (JP0)
Entries 126585

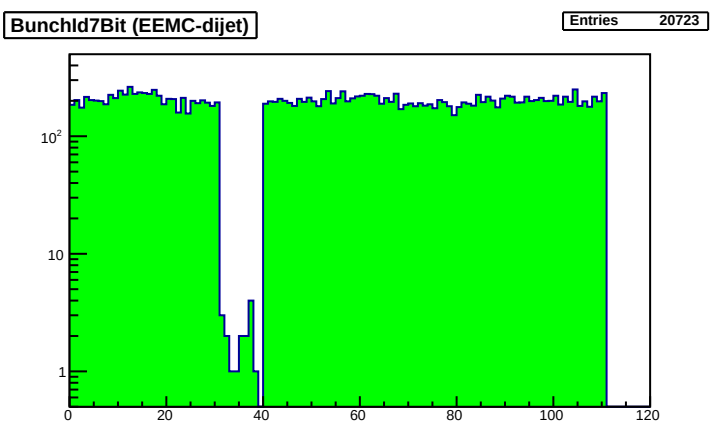

BunchId7Bit (JP1)
Entries 80967

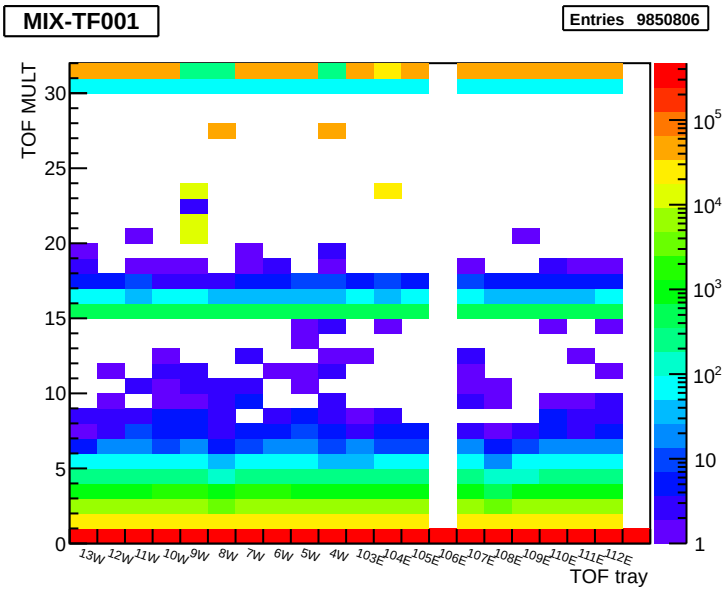

BunchId7Bit (JP2)
Entries 26380

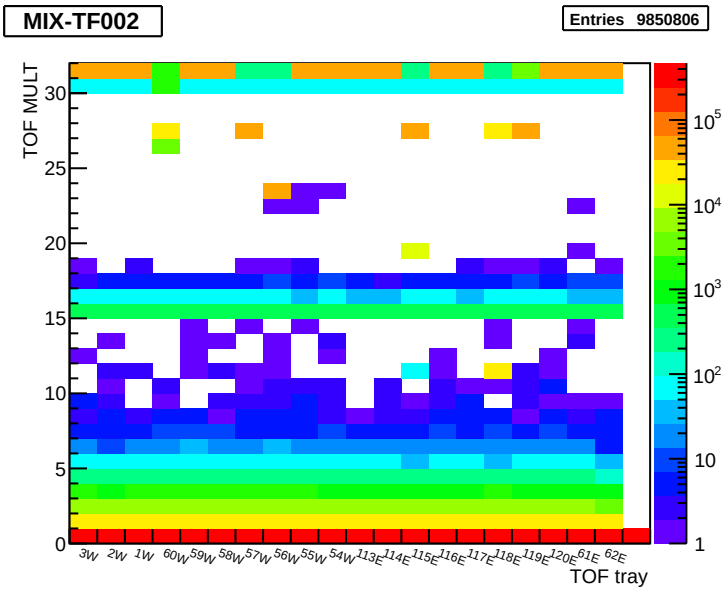

BunchId7Bit (BAJP)
Entries 4138

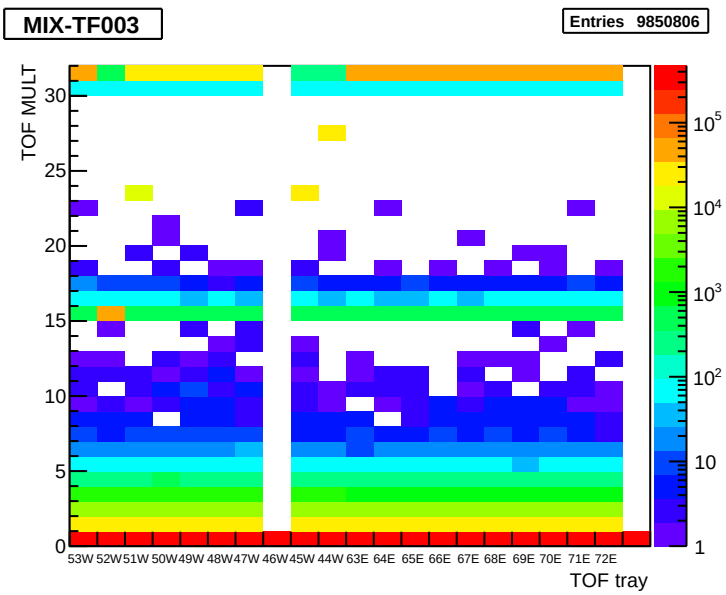

BunchId7Bit (JP0*DiJet)
Entries 63769

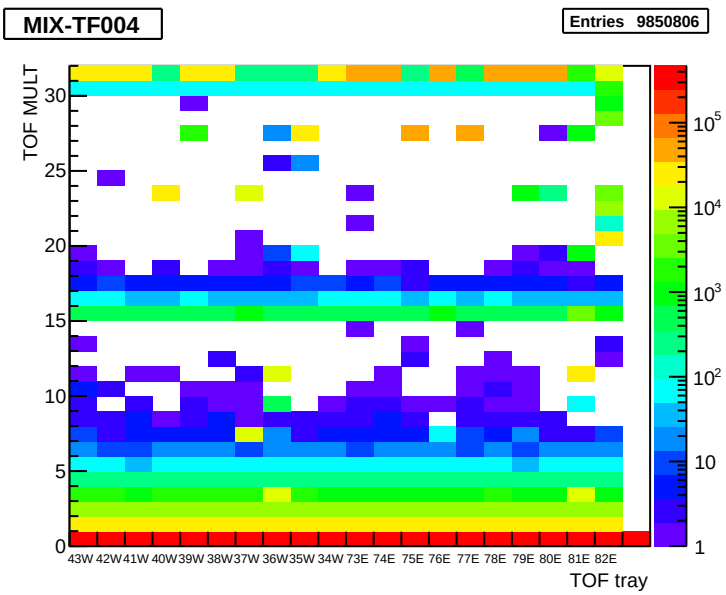

BunchId7Bit (JP1*DiJet)
Entries 43181

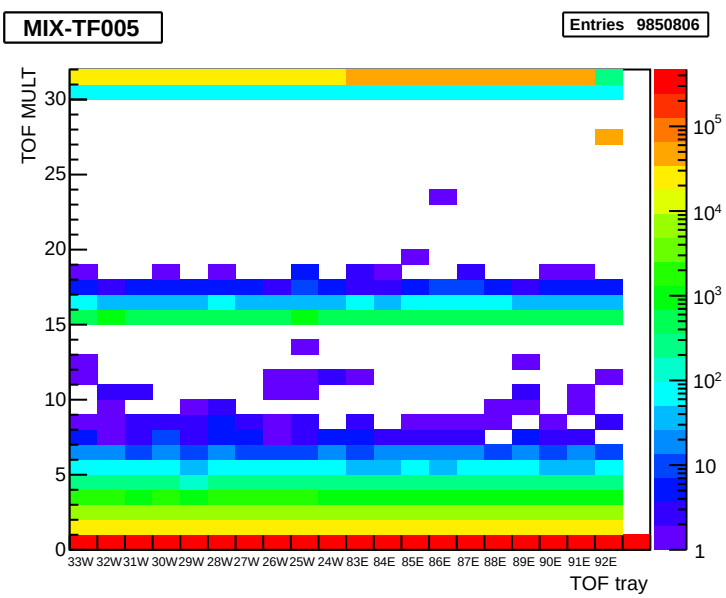

BunchId7Bit (EEMC-dijet)
Entries 20723

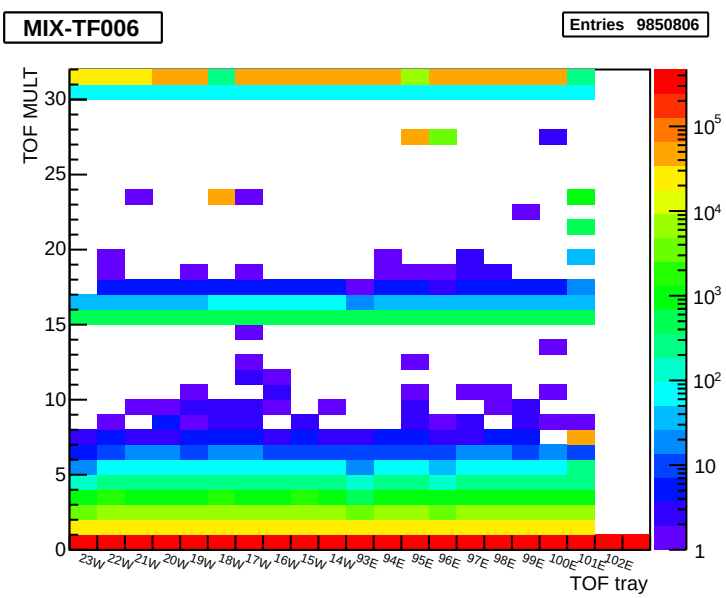

MIX-TF001
Entries 9850806
TOF MULT
TOF tray

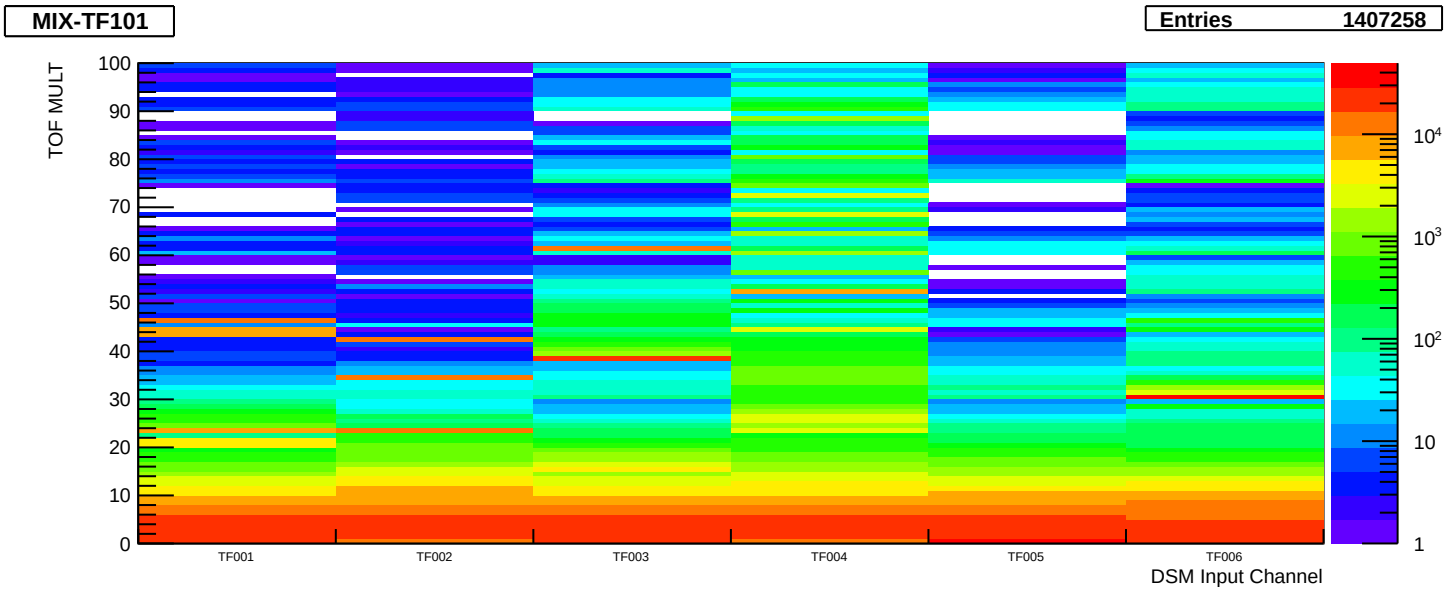

MIX-TF002
Entries 9850806
TOF MULT
TOF tray

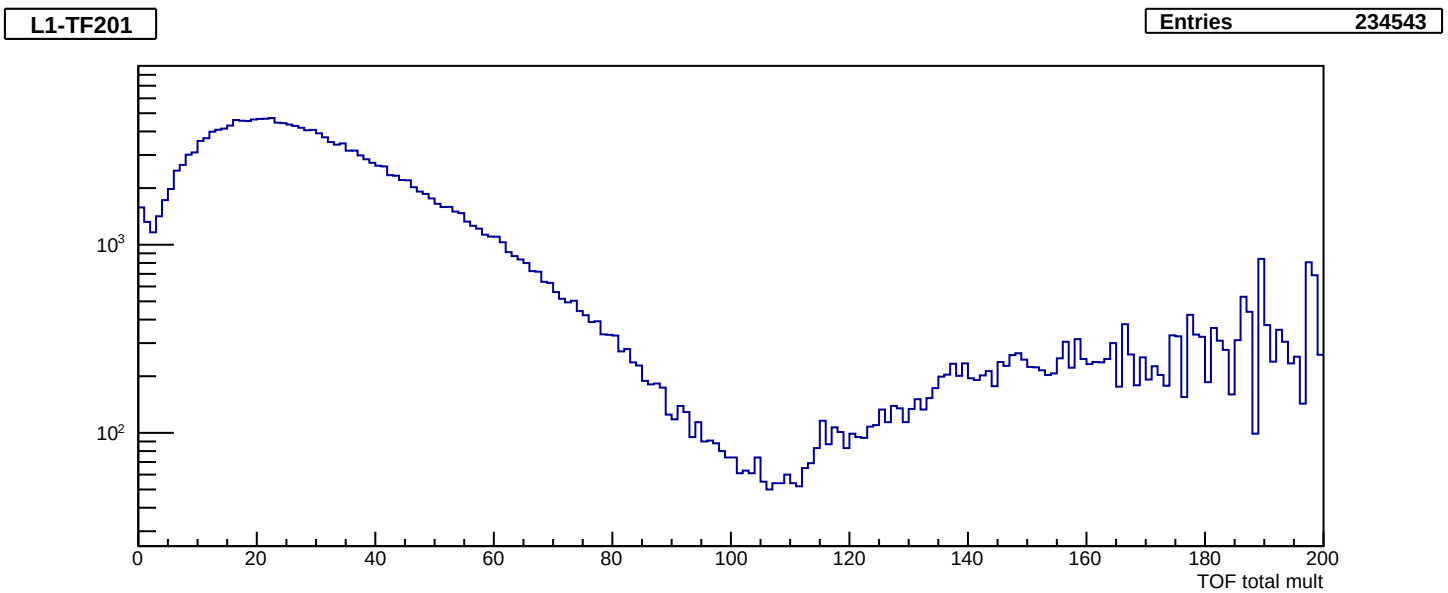

MIX-TF003
Entries 9850806
TOF MULT
TOF tray

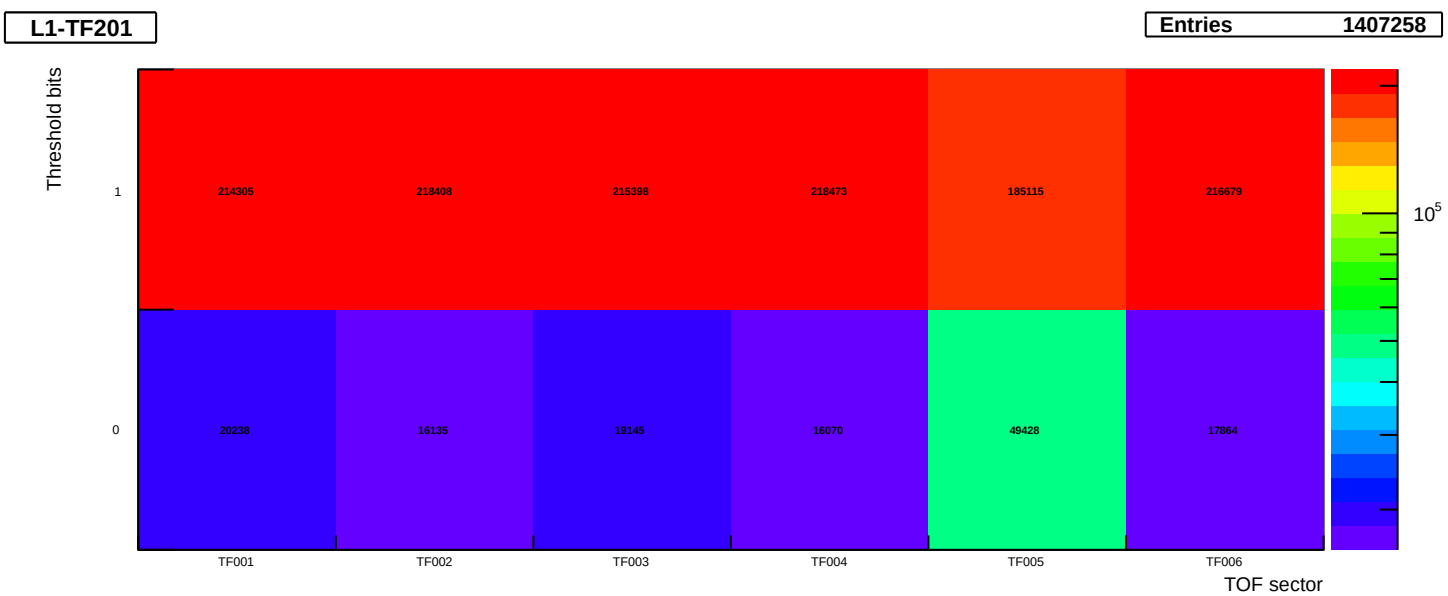

MIX-TF004
Entries 9850806
TOF MULT
TOF tray

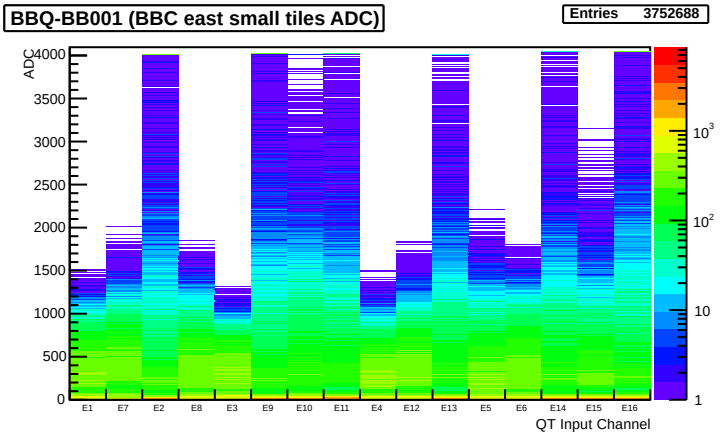

MIX-TF005
Entries 9850806
TOF MULT
TOF tray

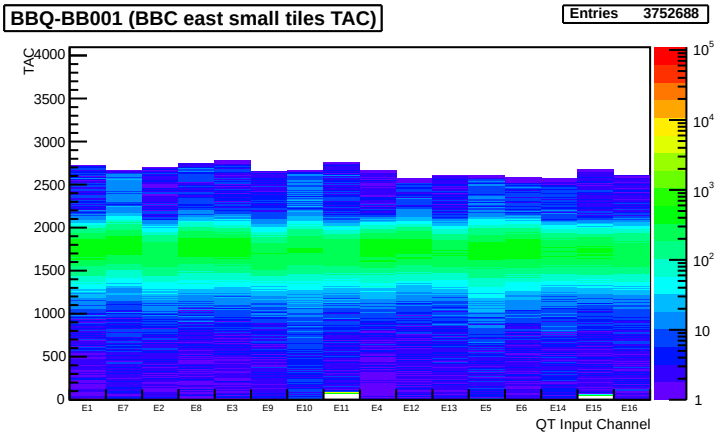

MIX-TF006
Entries 9850806
TOF MULT
TOF tray

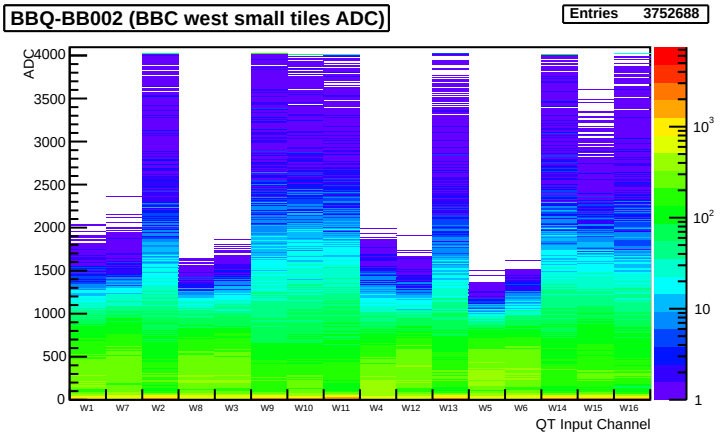

MIX-TF101
Entries 1407258
TOF MULT
100
90
80
70
60
50
40
30
20
10
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

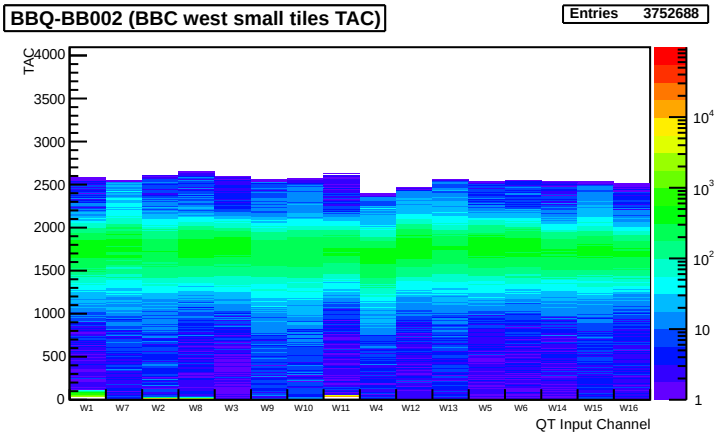

L1-TF201
Entries 234543
10^3
10^2
0
20
40
60
80
100
120
140
160
180
200
TOF total mult

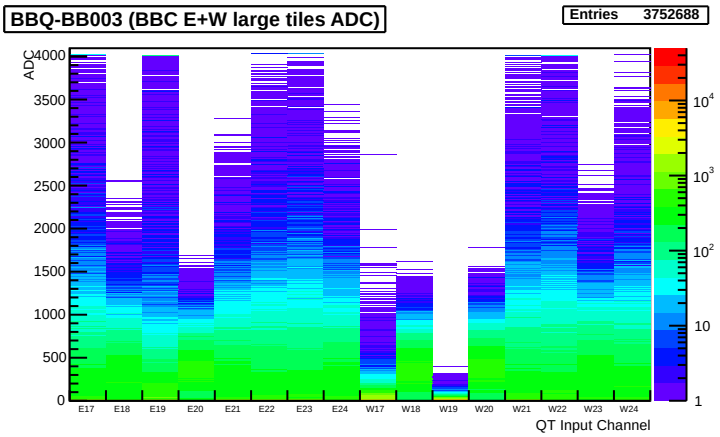

L1-TF201
Entries 1407258
Threshold bits
1
0
214305
218408
215398
218473
185115
216679
20238
16135
19145
16070
49428
17864
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

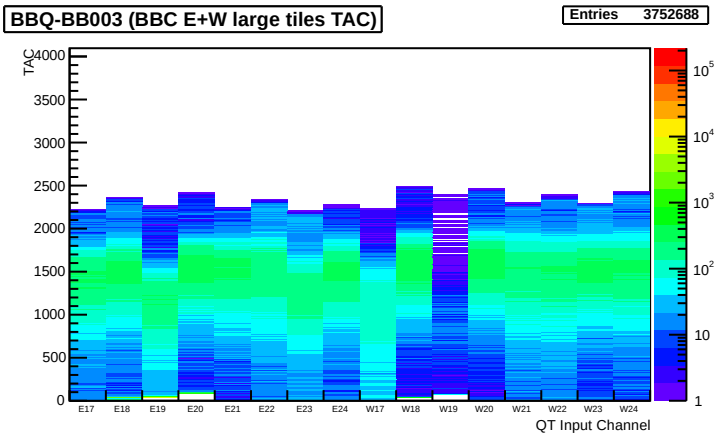

BBQ-BB001 (BBC east small tiles ADC)
Entries 3752688
ADC
QT Input Channel

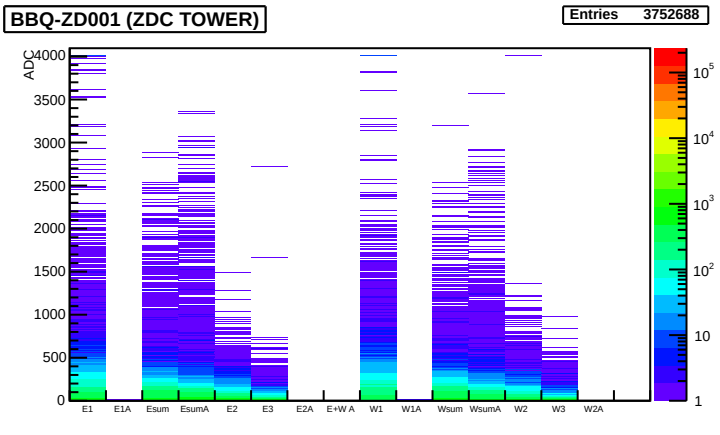

BBQ-BB001 (BBC east small tiles TAC)
Entries 3752688
TAC
QT Input Channel

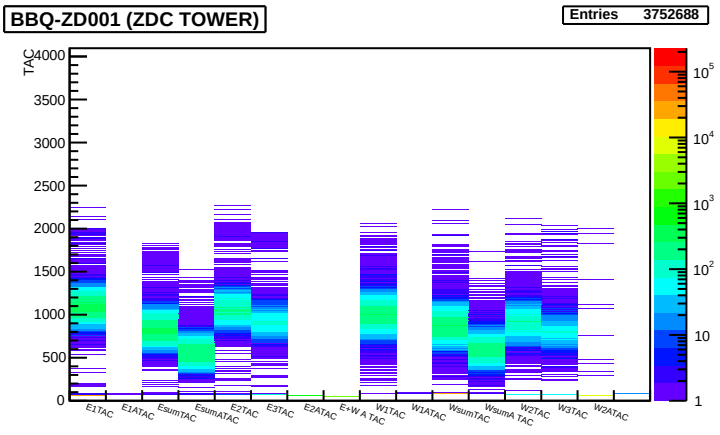

BBQ-BB002 (BBC west small tiles ADC)
Entries 3752688
ADC
QT Input Channel

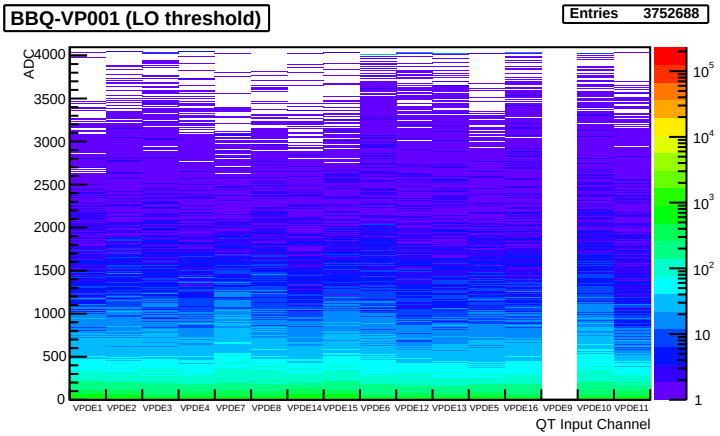

BBQ-BB002 (BBC west small tiles TAC)
Entries 3752688
TAC
QT Input Channel

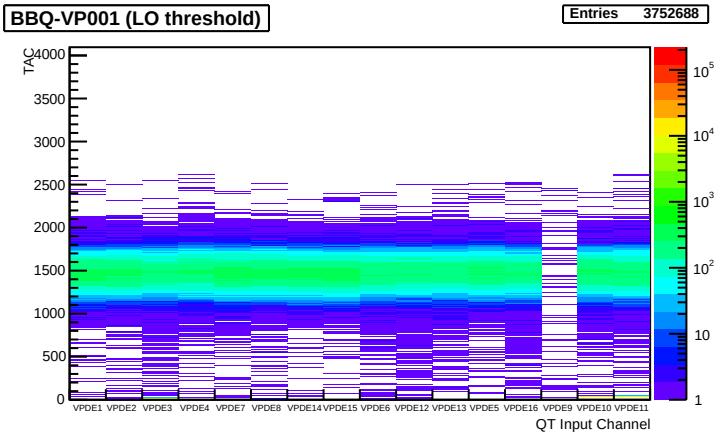

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3752688
ADC
QT Input Channel

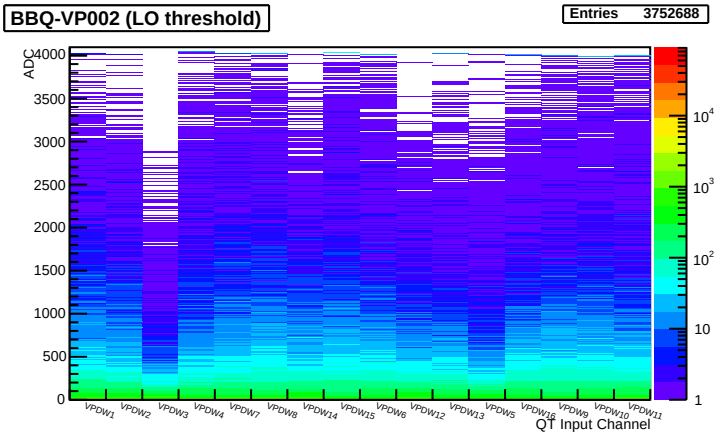

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3752688
TAC
QT Input Channel

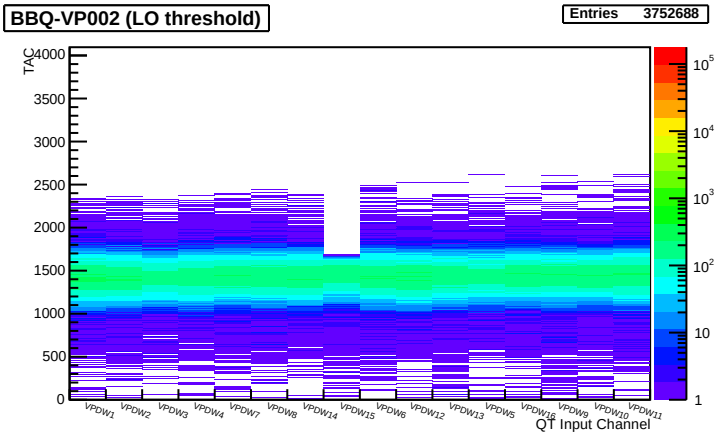

BBQ-ZD001 (ZDC TOWER)
Entries 3752688
ADC

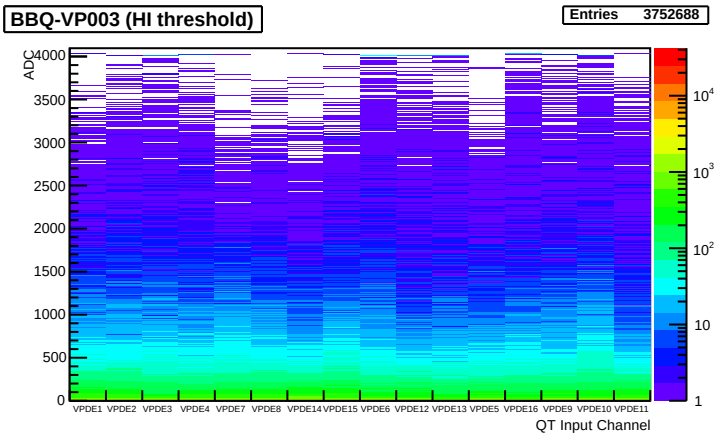

BBQ-ZD001 (ZDC TOWER)
Entries 3752688
TAC

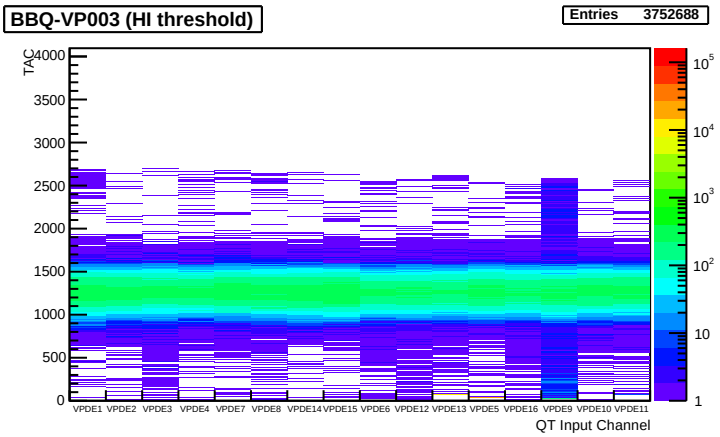

BBQ-VP001 (LO threshold)
Entries 3752688
ADC
QT Input Channel

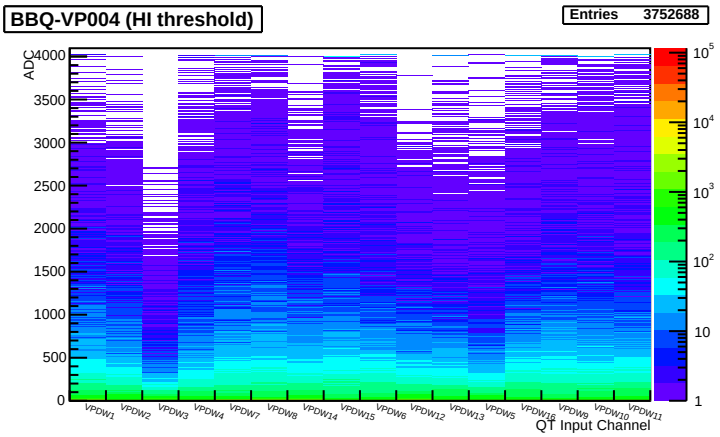

BBQ-VP001 (LO threshold)
Entries 3752688
TAC
QT Input Channel

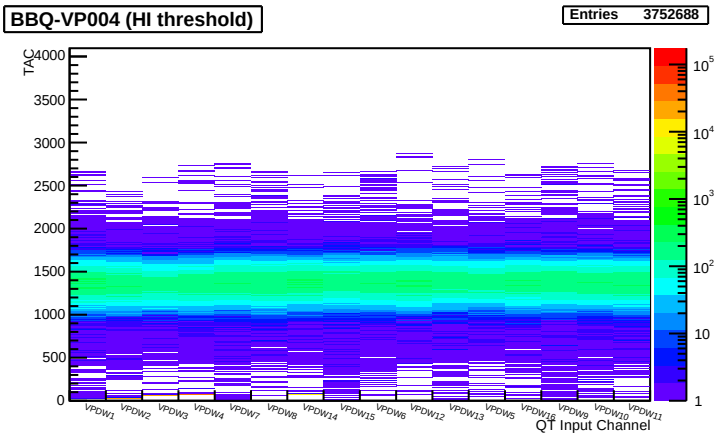

BBQ-VP002 (LO threshold)
Entries 3752688
ADC
QT Input Channel

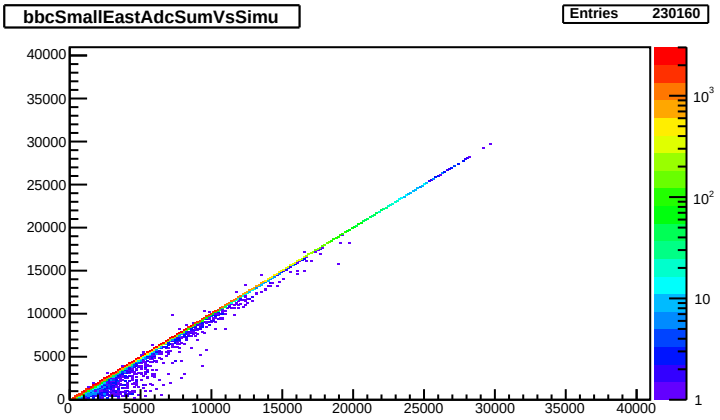

BBQ-VP002 (LO threshold)
Entries 3752688
TAC
QT Input Channel

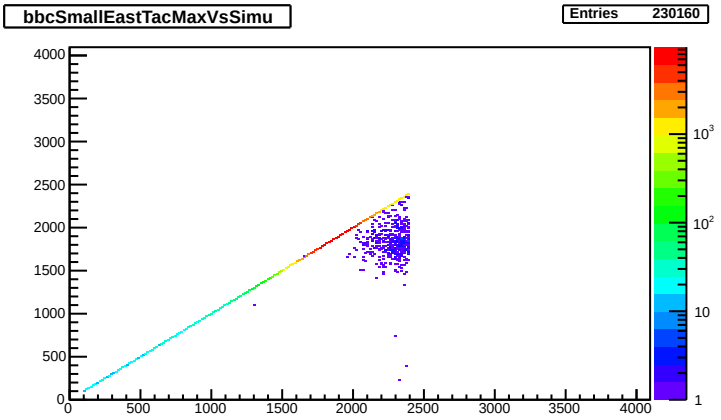

BBQ-VP003 (HI threshold)
Entries 3752688
ADC
QT Input Channel

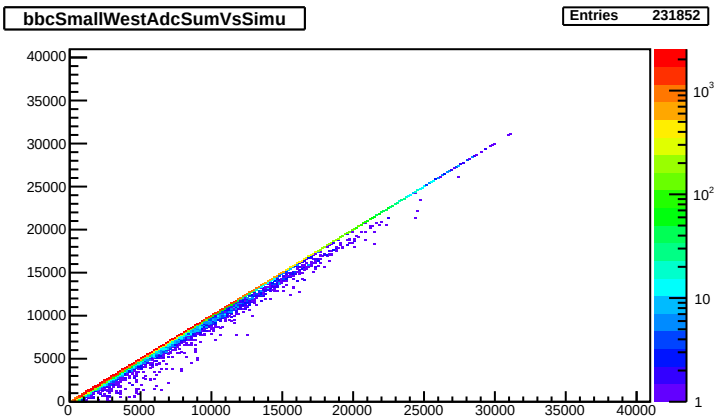

BBQ-VP003 (HI threshold)
Entries 3752688
TAC
QT Input Channel

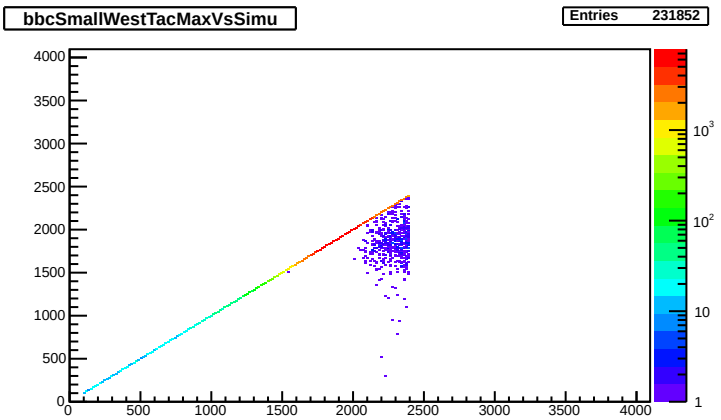

BBQ-VP004 (HI threshold)
Entries 3752688
ADC
QT Input Channel

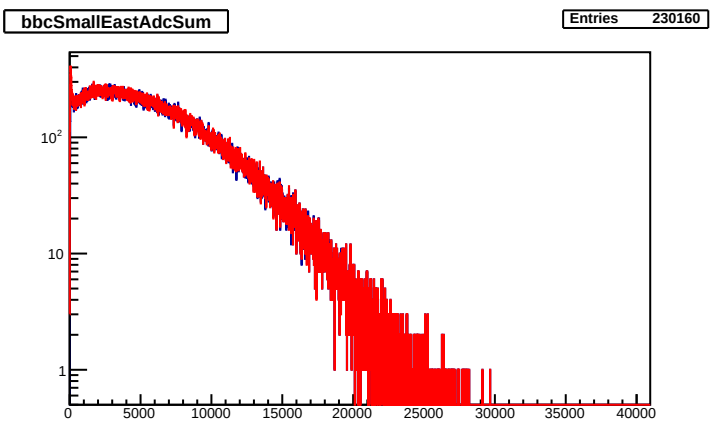

BBQ-VP004 (HI threshold)
Entries 3752688
TAC
QT Input Channel

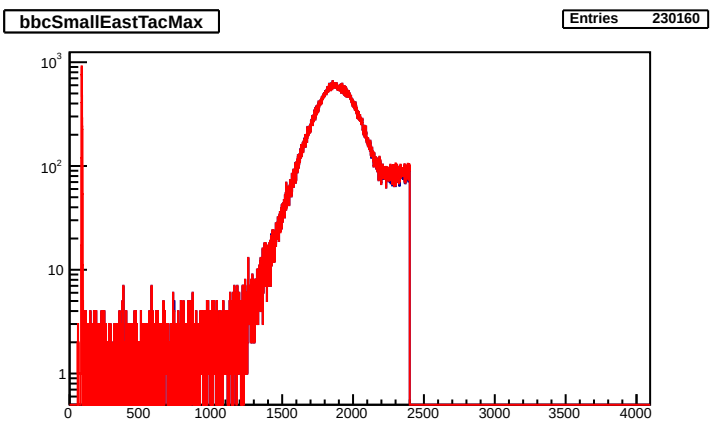

bbcSmallEastAdcSumVsSimu
Entries 230160

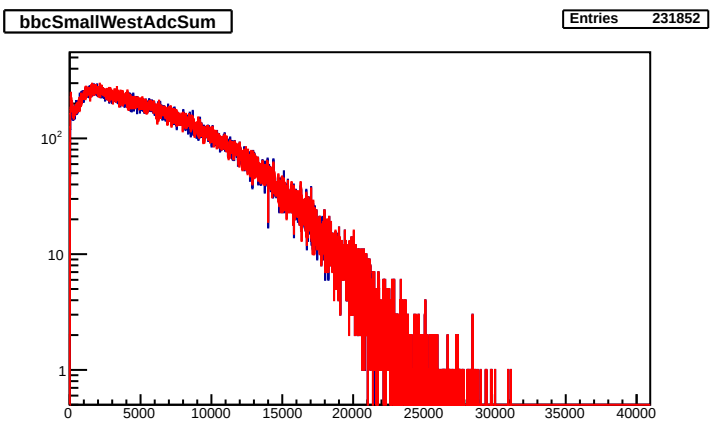

bbcSmallEastTacMaxVsSimu
Entries 230160

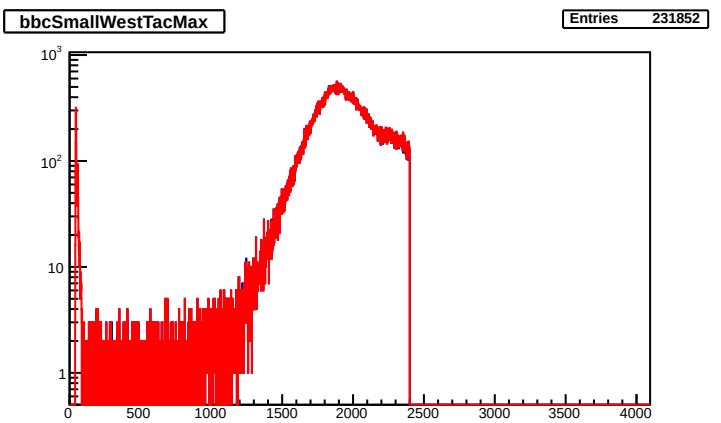

bbcSmallWestAdcSumVsSimu
Entries 231852

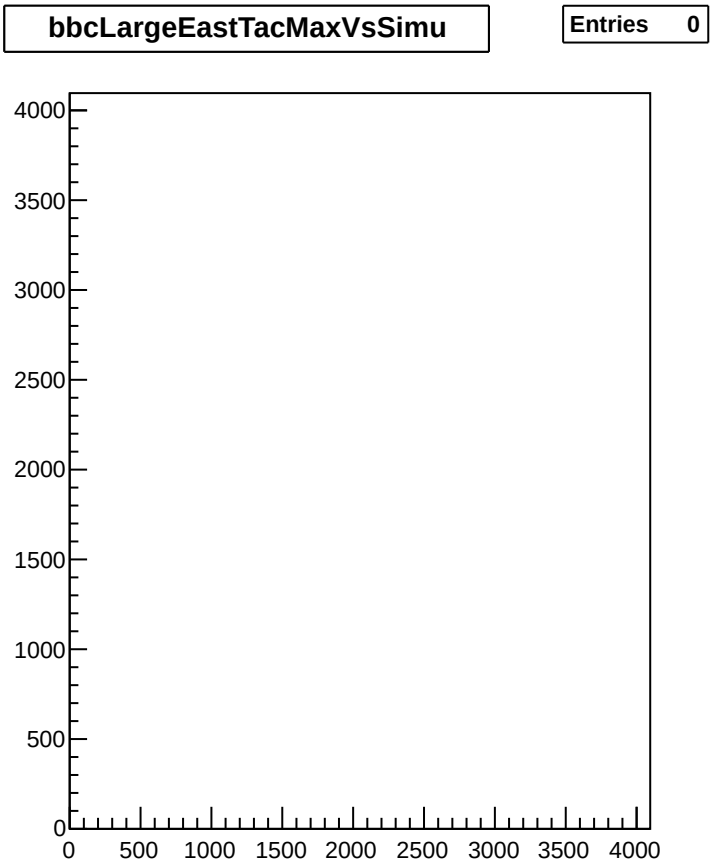

bbcSmallWestTacMaxVsSimu
Entries 231852

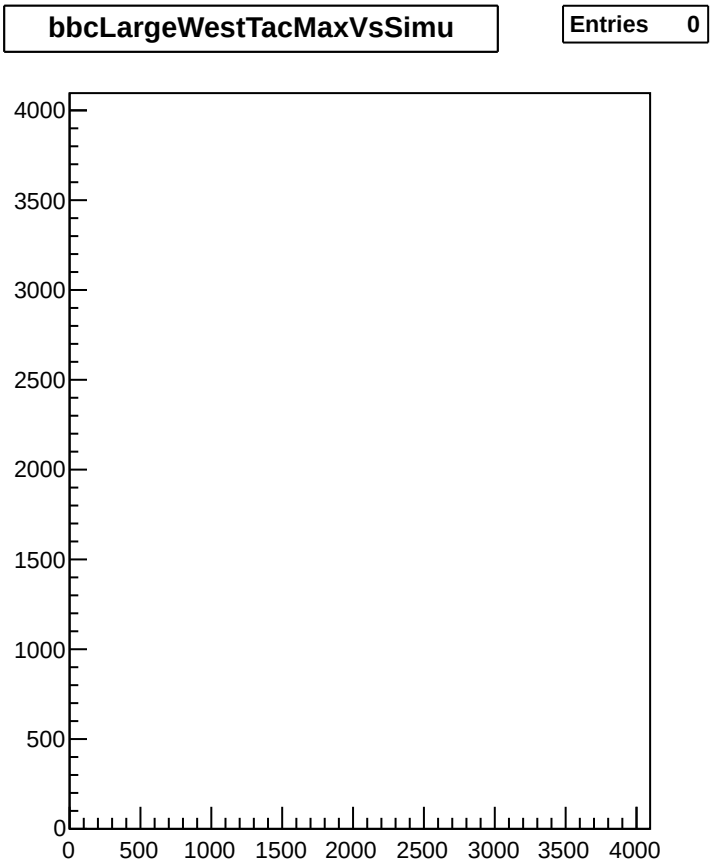

bbcSmallEastAdcSum
Entries 230160

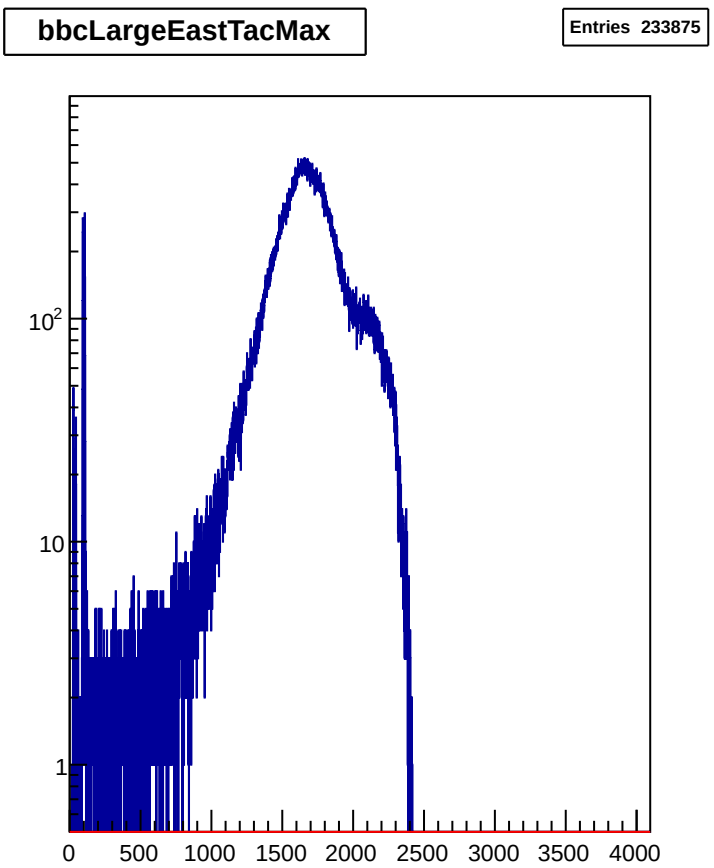

bbcSmallEastTacMax
Entries 230160

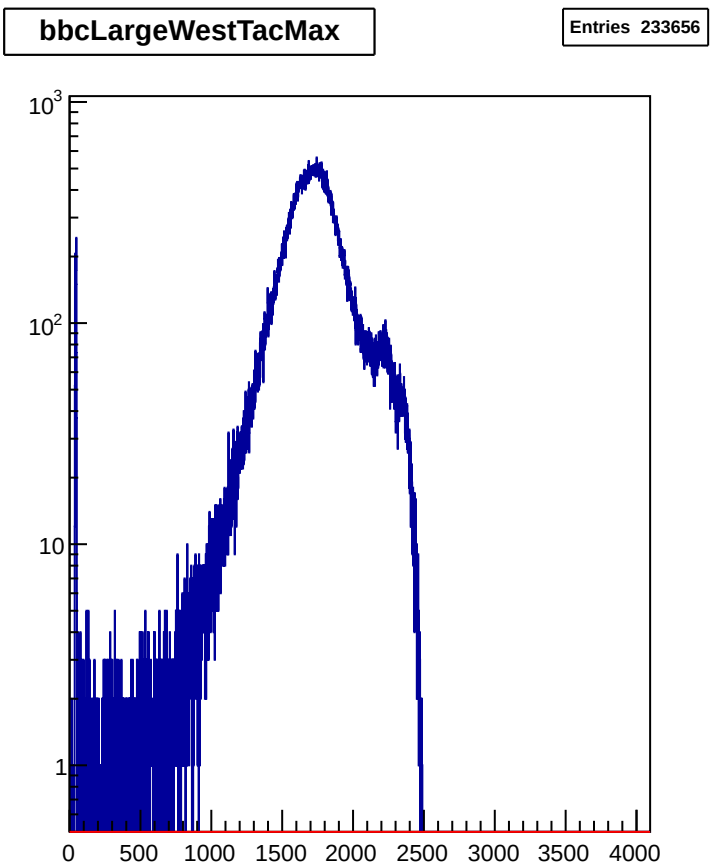

bbcSmallWestAdcSum
Entries 231852

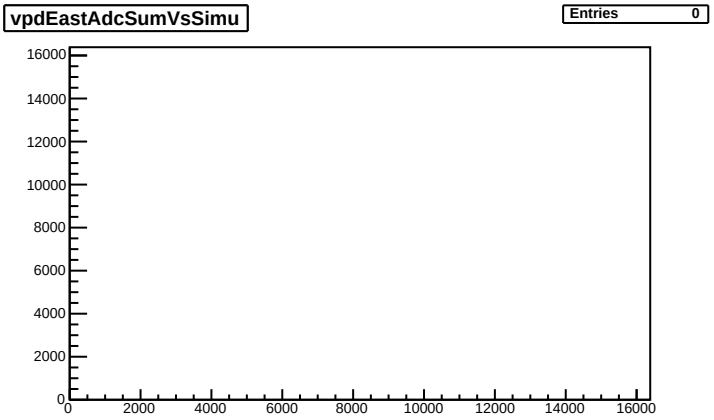

bbcSmallWestTacMax
Entries 231852

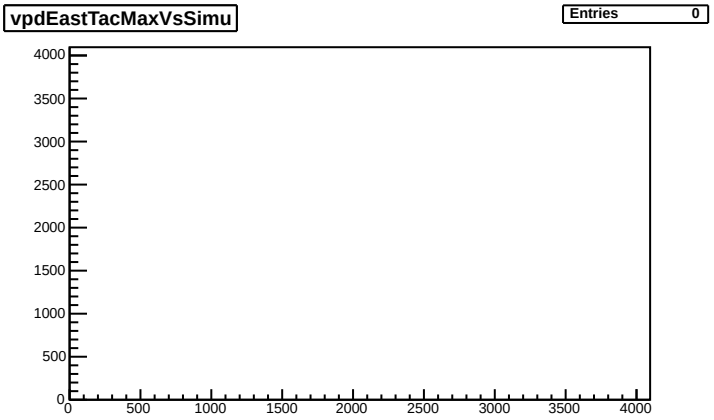

bbcLargeEastTacMaxVsSimu
Entries 0
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000

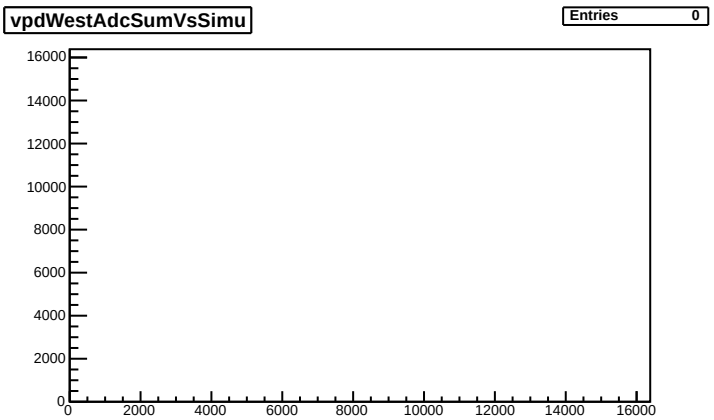

bbcLargeWestTacMaxVsSimu
Entries 0
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000

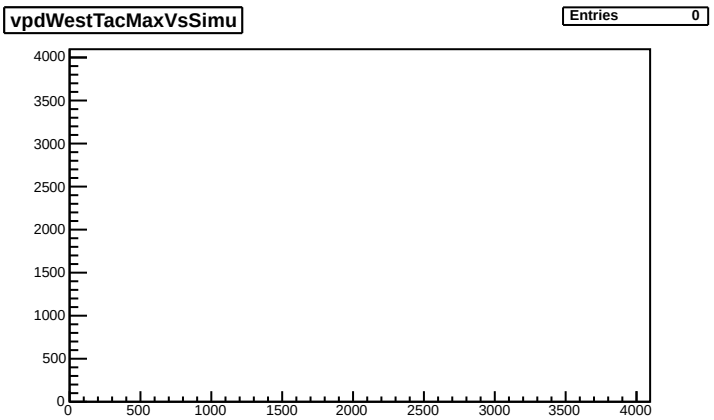

bbcLargeEastTacMax
Entries 233875
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

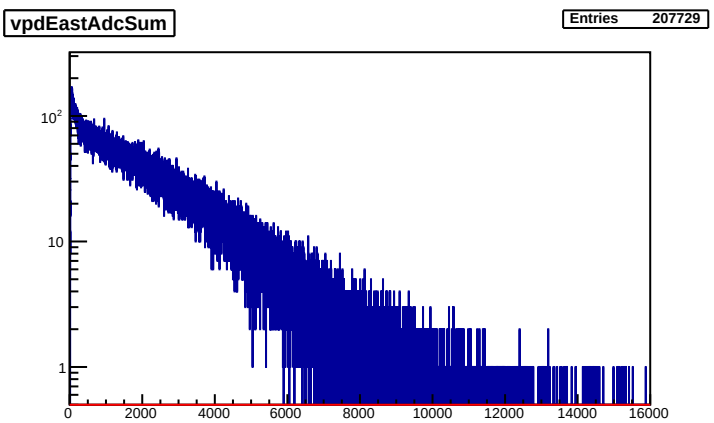

bbcLargeWestTacMax
Entries 233656
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

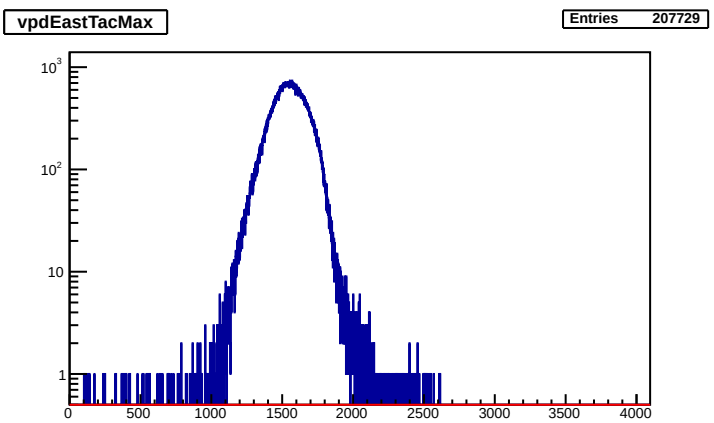

vpdEastAdcSumVsSimu
Entries 0

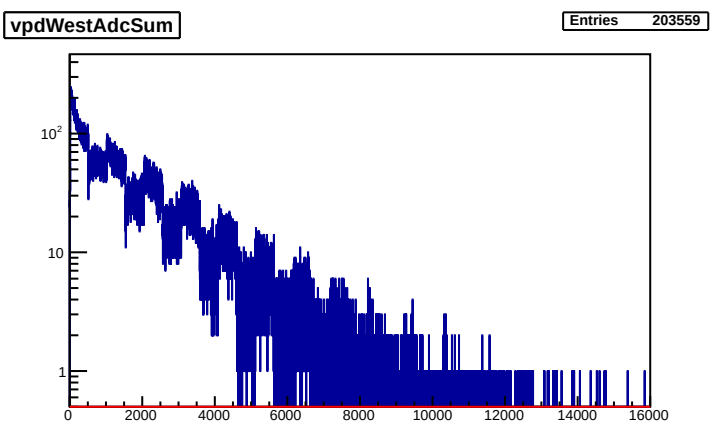

vpdEastTacMaxVsSimu
Entries 0

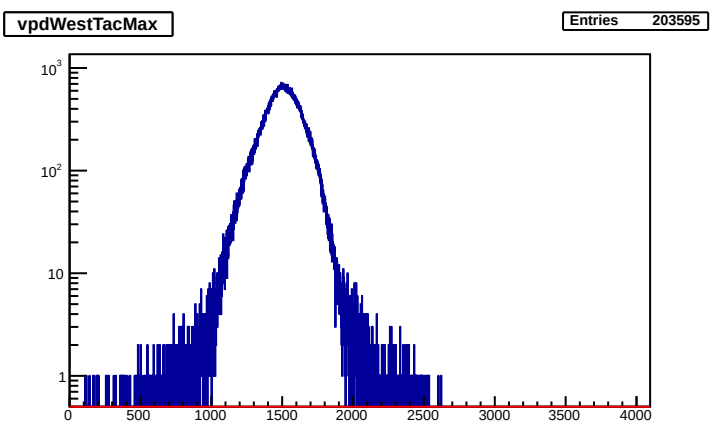

vpdWestAdcSumVsSimu
Entries 0

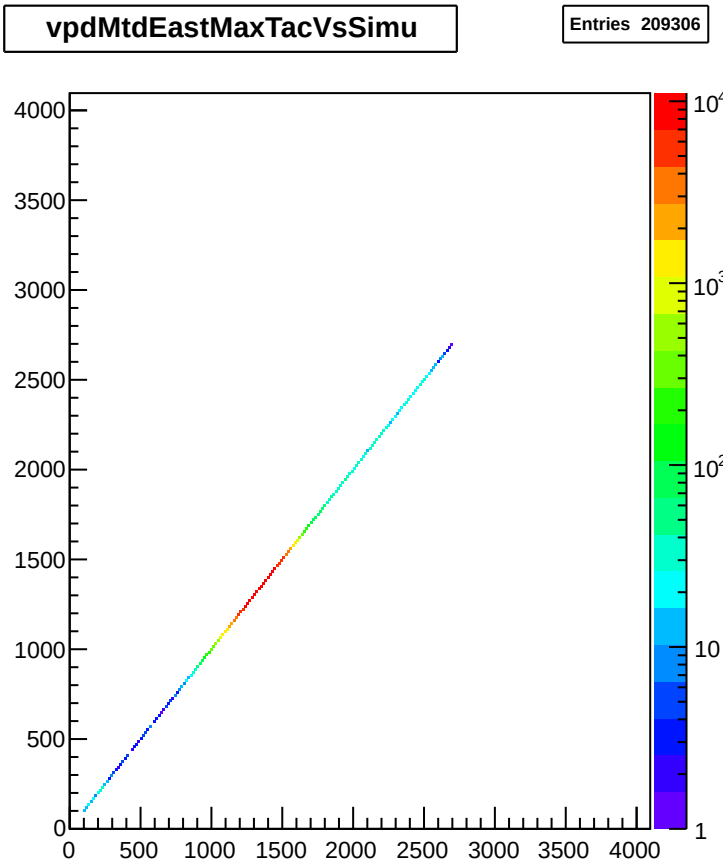

vpdWestTacMaxVsSimu
Entries 0

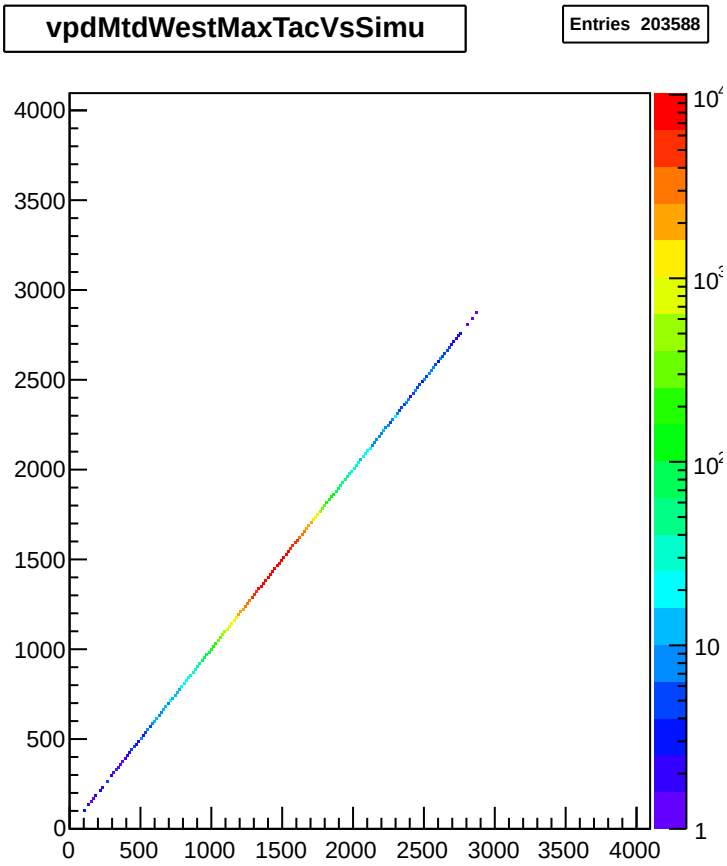

vpdEastAdcSum
Entries 207729

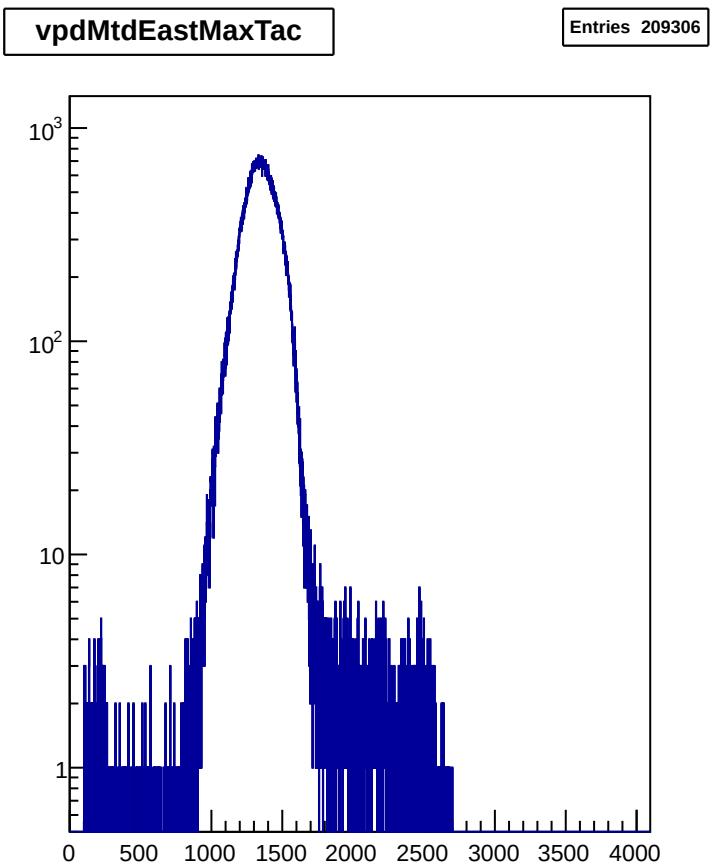

vpdEastTacMax
Entries 207729

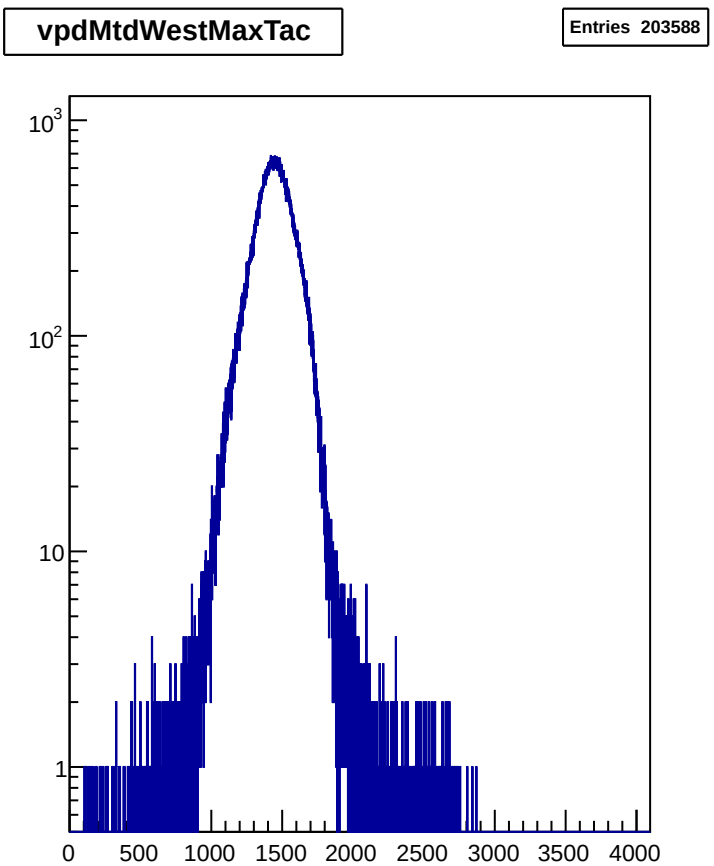

vpdWestAdcSum
Entries 203559

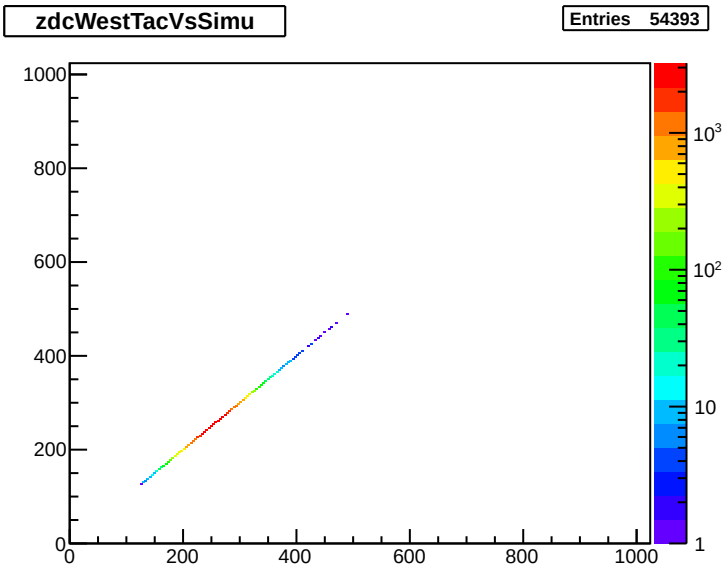

vpdWestTacMax
Entries 203595

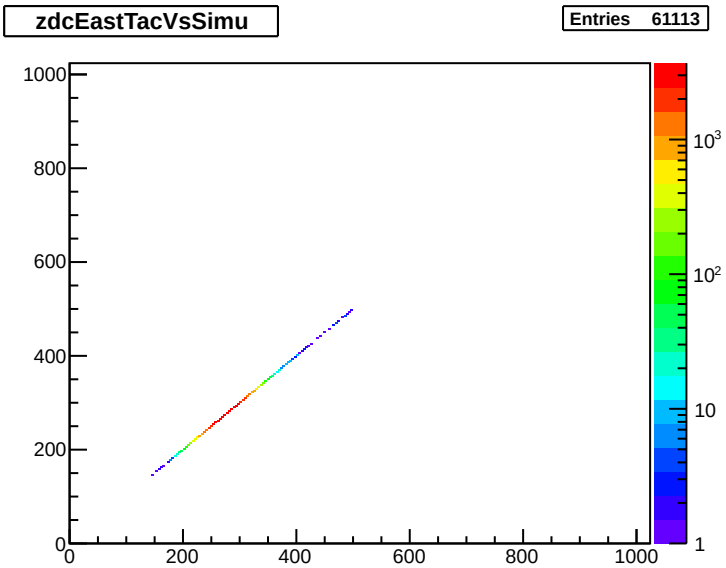

vpdMtdEastMaxTacVsSimu
Entries 209306
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
10
1

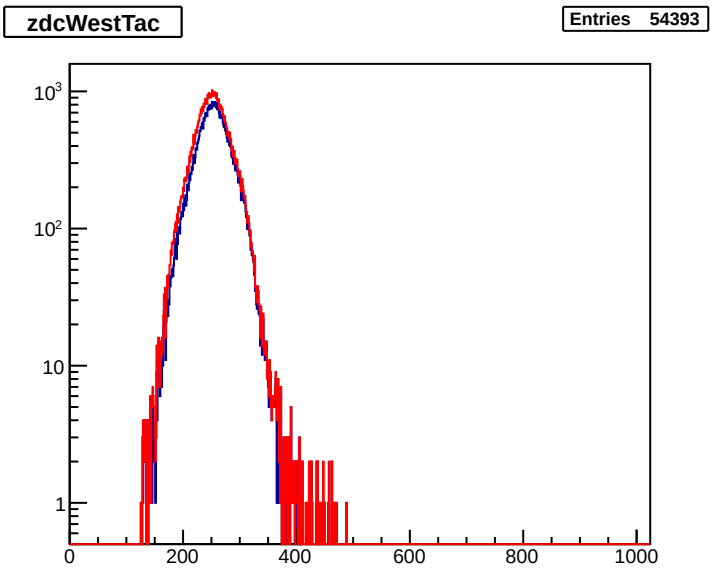

vpdMtdWestMaxTacVsSimu
Entries 203588
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
10
1

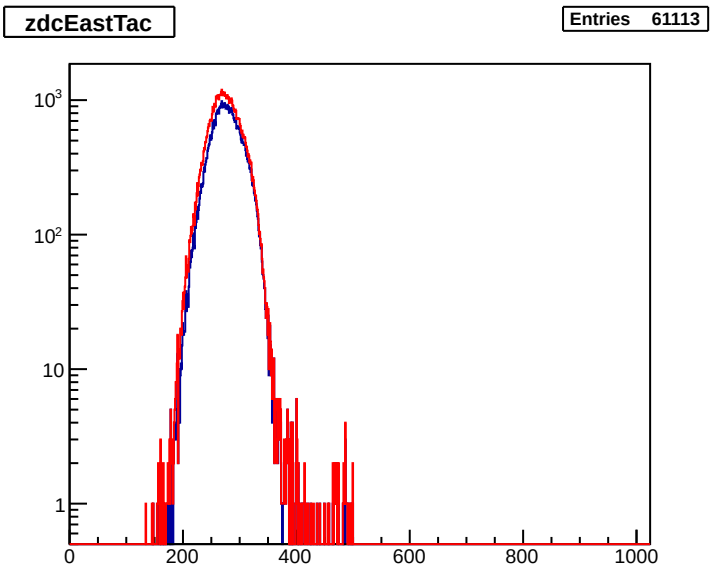

vpdMtdEastMaxTac
Entries 209306
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

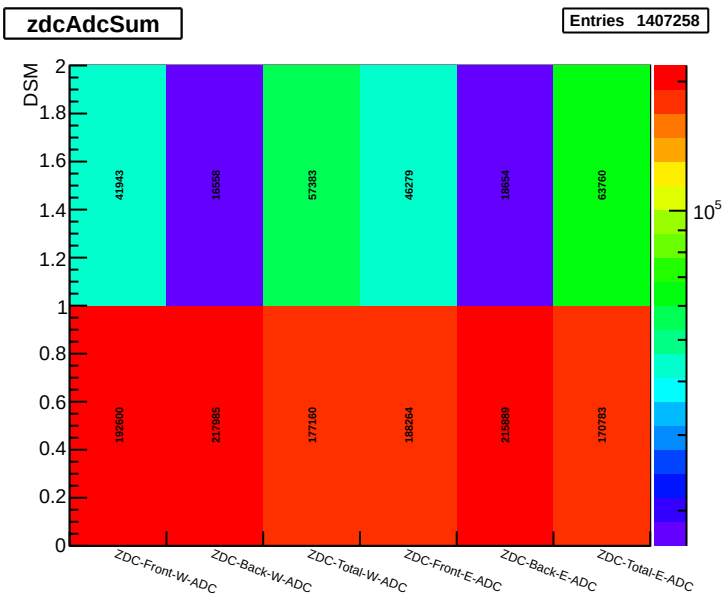

vpdMtdWestMaxTac
Entries 203588
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

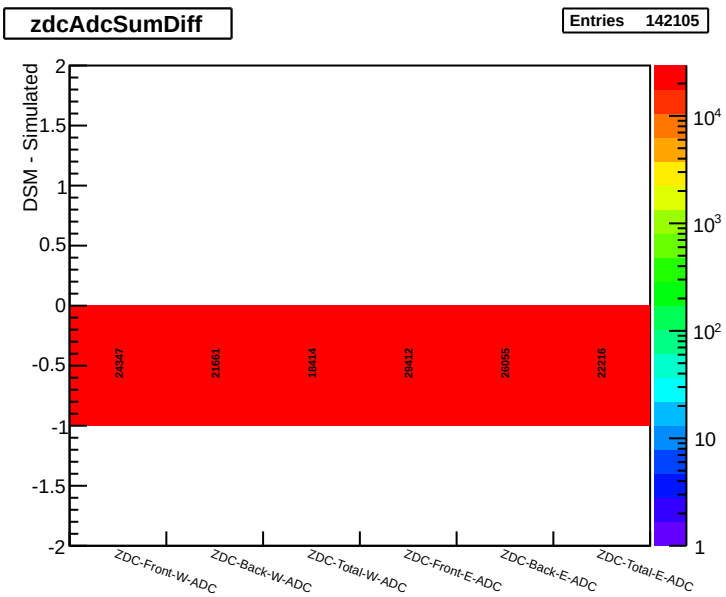

zdcWestTacVsSimu
Entries 54393

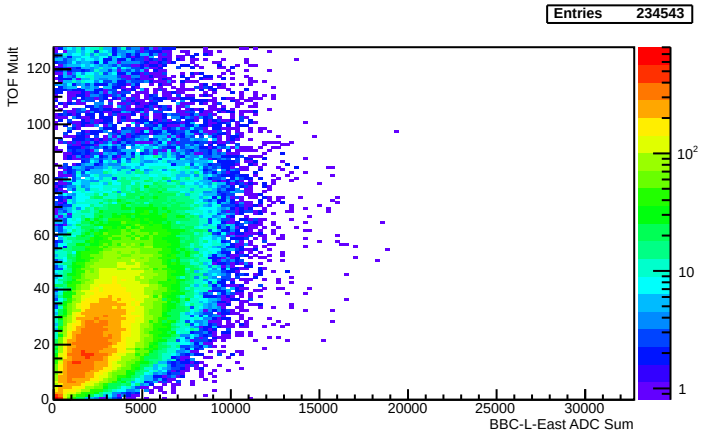

zdcEastTacVsSimu
Entries 61113

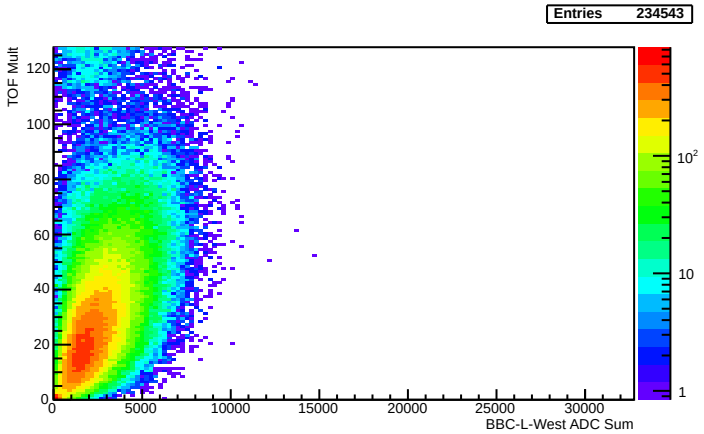

zdcWestTac
Entries 54393

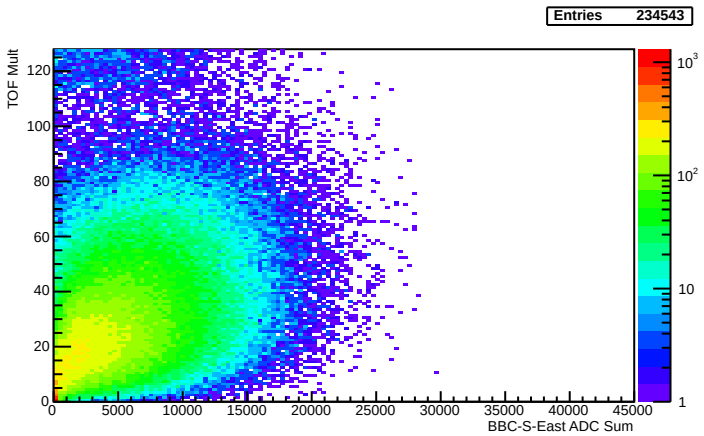

zdcEastTac
Entries 61113

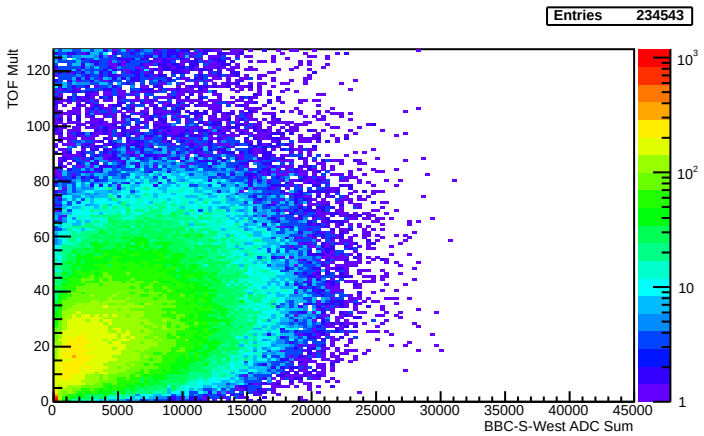

zdcAdcSum
Entries 1407258
DSM
41943
16558
57383
46279
18654
63760
192600
217985
177160
188264
215889
170783
ZDC-Front-W-ADC
ZDC-Back-W-ADC
ZDC-Total-W-ADC
ZDC-Front-E-ADC
ZDC-Back-E-ADC
ZDC-Total-E-ADC

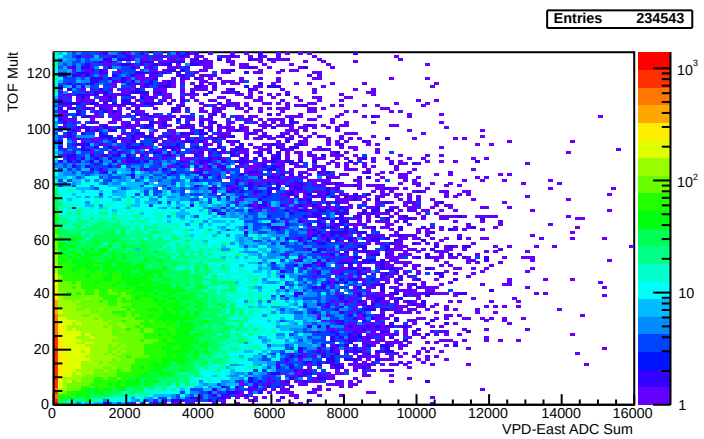

zdcAdcSumDiff
Entries 142105
DSM - Simulated
24347
21661
18414
29412
26055
22216
ZDC-Front-W-ADC
ZDC-Back-W-ADC
ZDC-Total-W-ADC
ZDC-Front-E-ADC
ZDC-Back-E-ADC
ZDC-Total-E-ADC

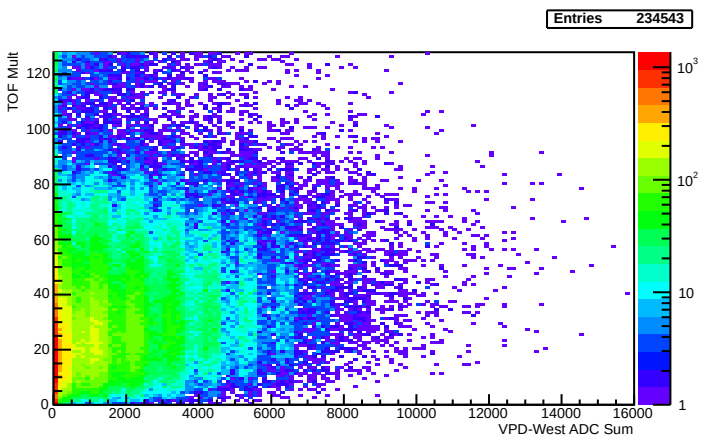

Entries 234543
TOF Mult
BBC-L-East ADC Sum

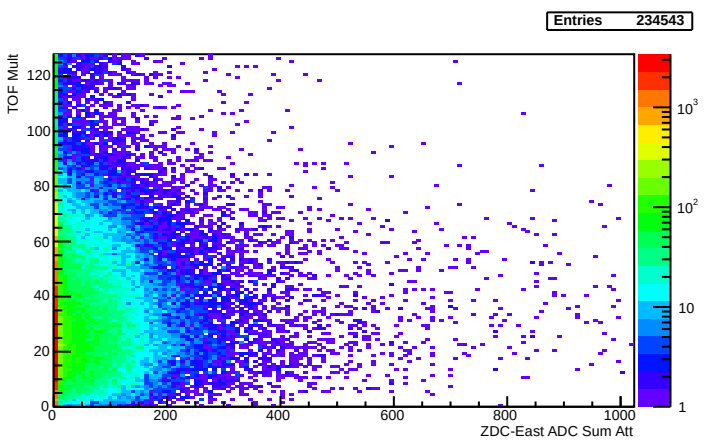

Entries 234543
TOF Mult
BBC-L-West ADC Sum

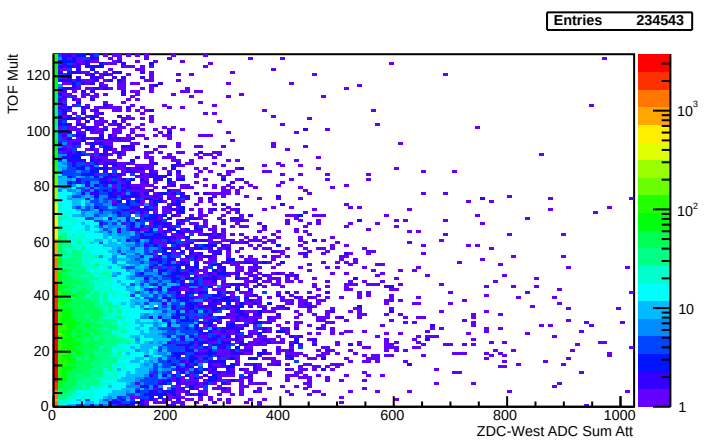

Entries 234543
TOF Mult
BBC-S-East ADC Sum

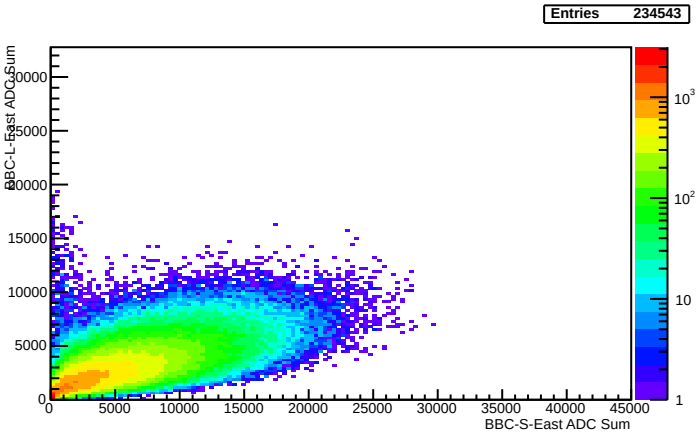

Entries 234543
TOF Mult
BBC-S-West ADC Sum

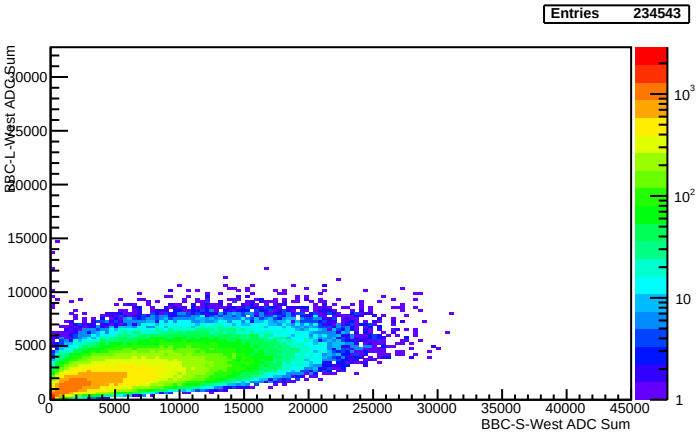

Entries 234543
TOF Mult
VPD-East ADC Sum

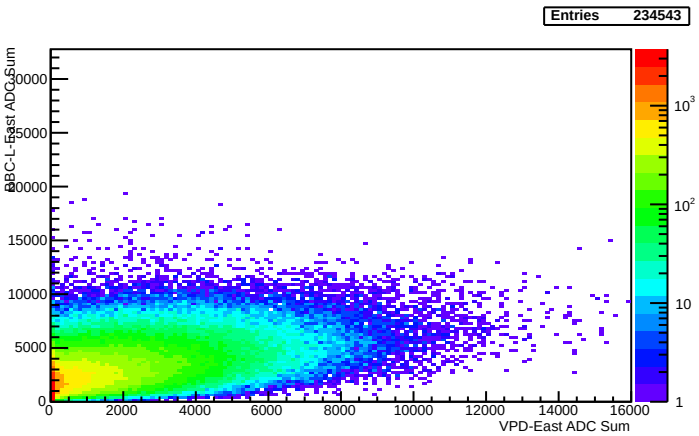

Entries 234543
TOF Mult
VPD-West ADC Sum

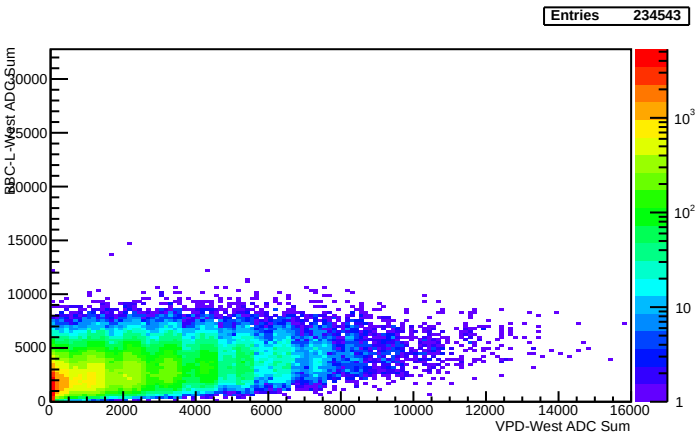

Entries 234543
TOF Mult
ZDC-East ADC Sum Att

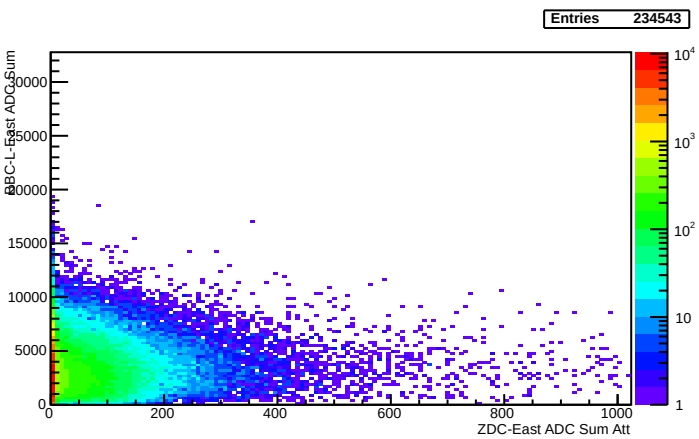

Entries 234543
TOF Mult
ZDC-West ADC Sum Att

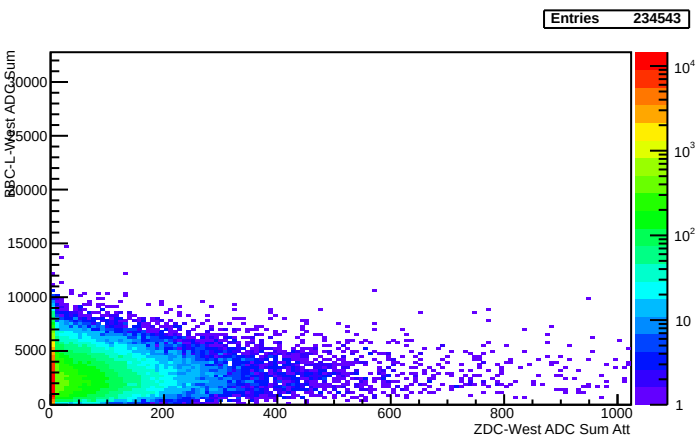

Entries 234543
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 234543
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 234543
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 234543
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 234543
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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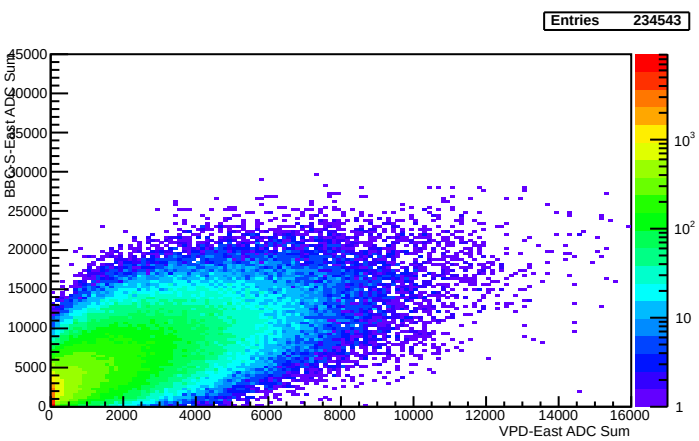
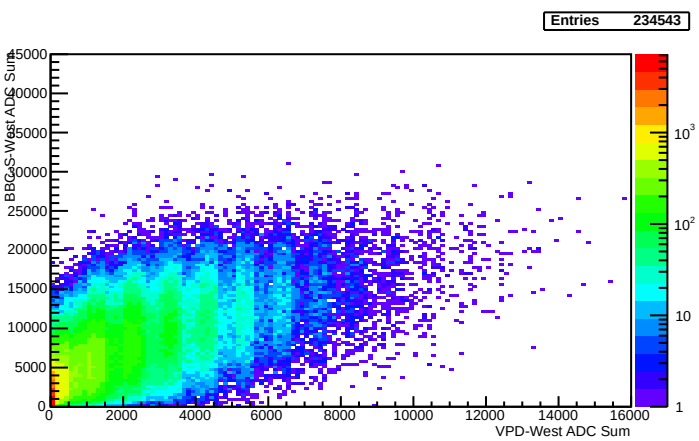
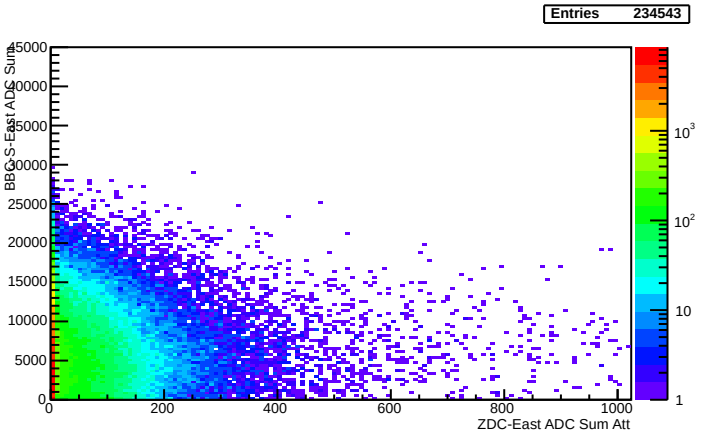
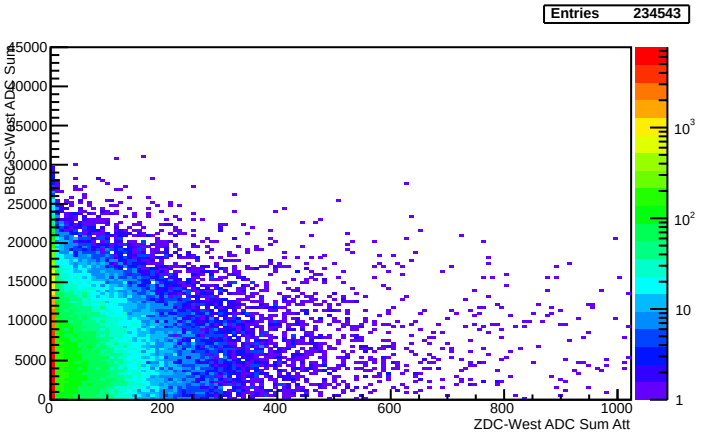
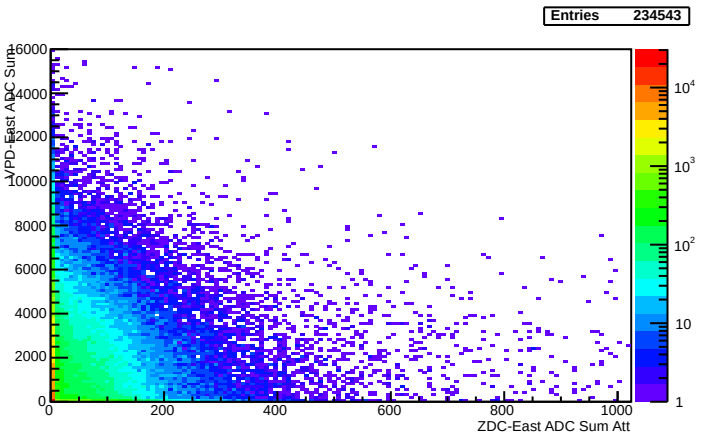
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

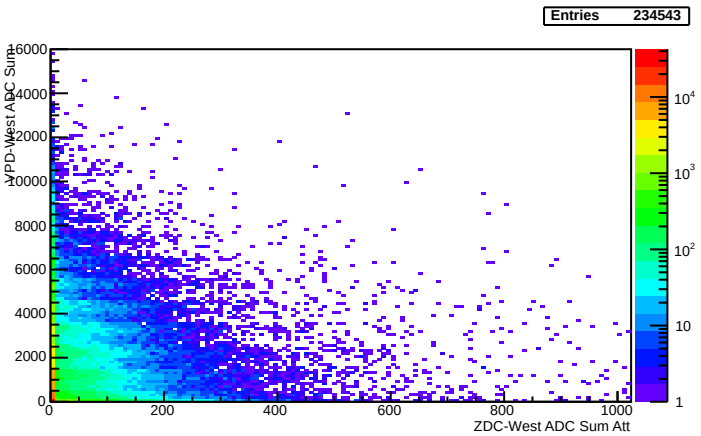

Entries 234543
BBC-S-East ADC Sum
VPD-East ADC Sum

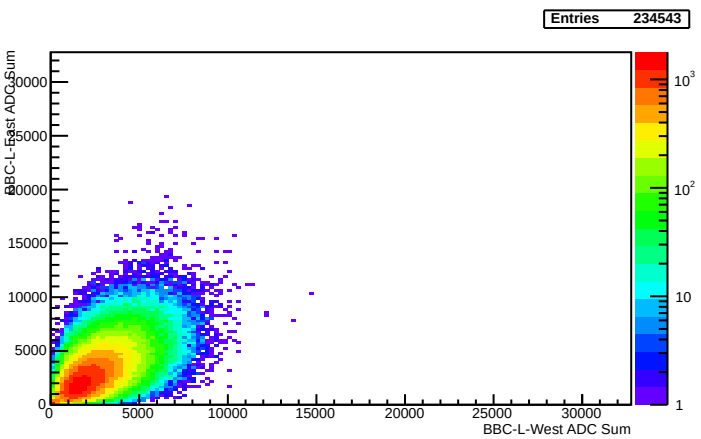

Entries 234543
BBC-S-West ADC Sum
VPD-West ADC Sum

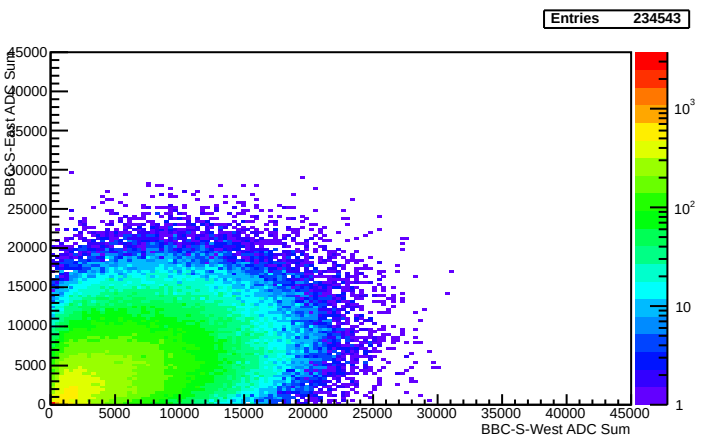

Entries 234543
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

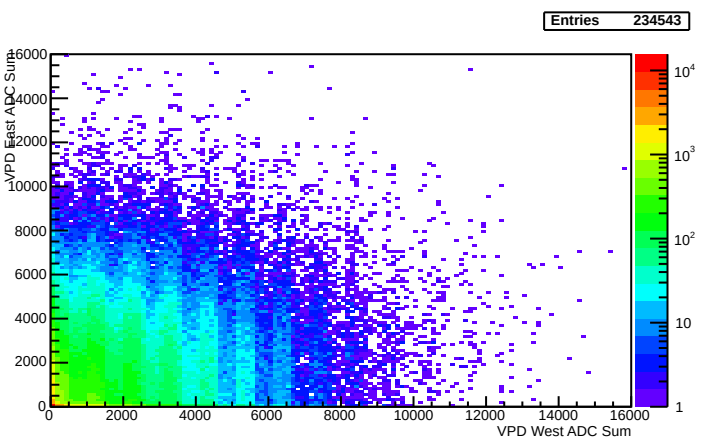

Entries 234543
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

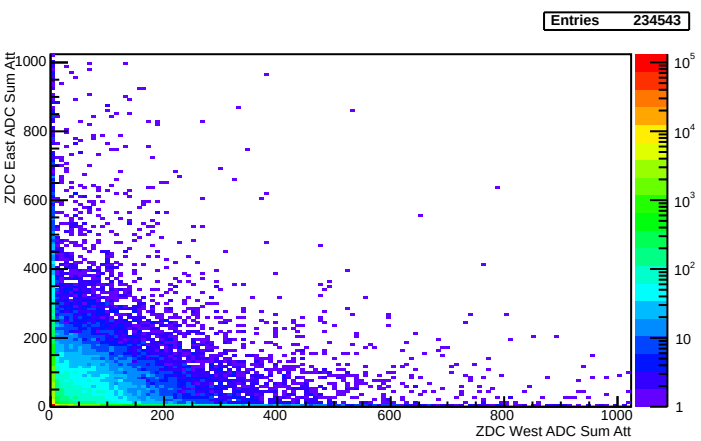

Entries 234543
VPD-East ADC Sum
ZDC-East ADC Sum Att

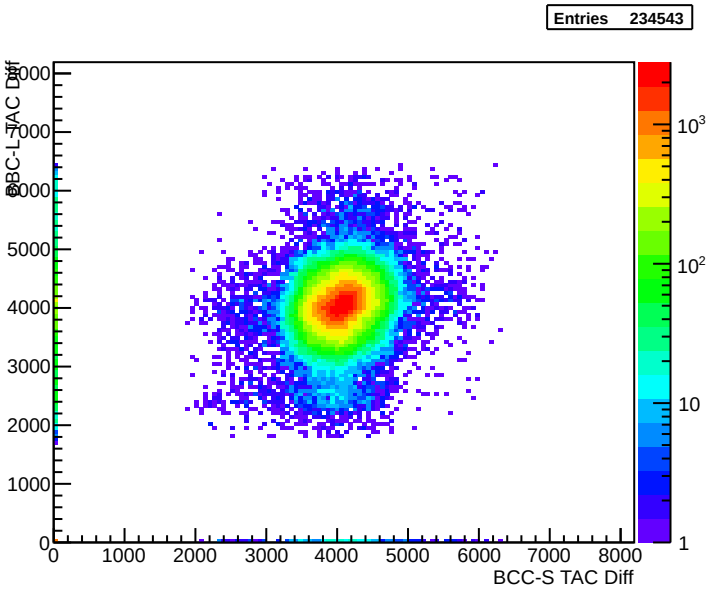

Entries 234543
VPD-West ADC Sum
ZDC-West ADC Sum Att

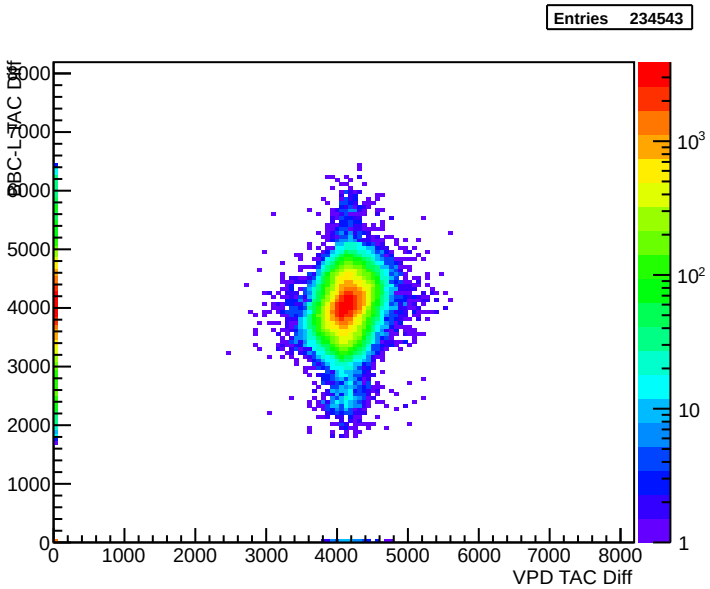

Entries 234543
BBC-L-East ADC Sum
BBC-L-West ADC Sum

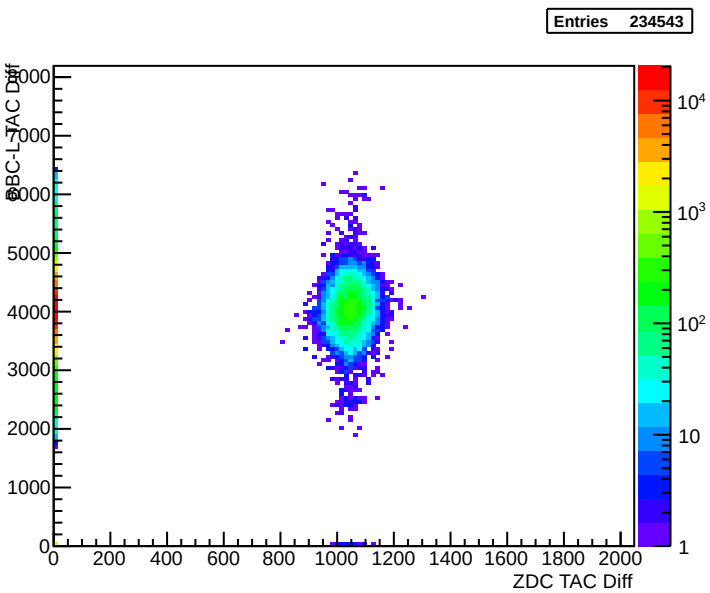

Entries 234543
BBC-S-East ADC Sum
BBC-S-West ADC Sum

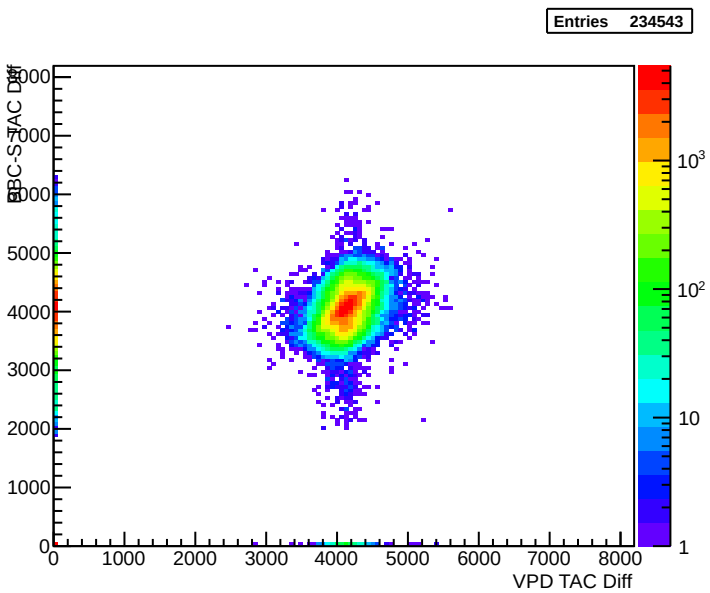

Entries 234543
VPD East ADC Sum
VPD West ADC Sum

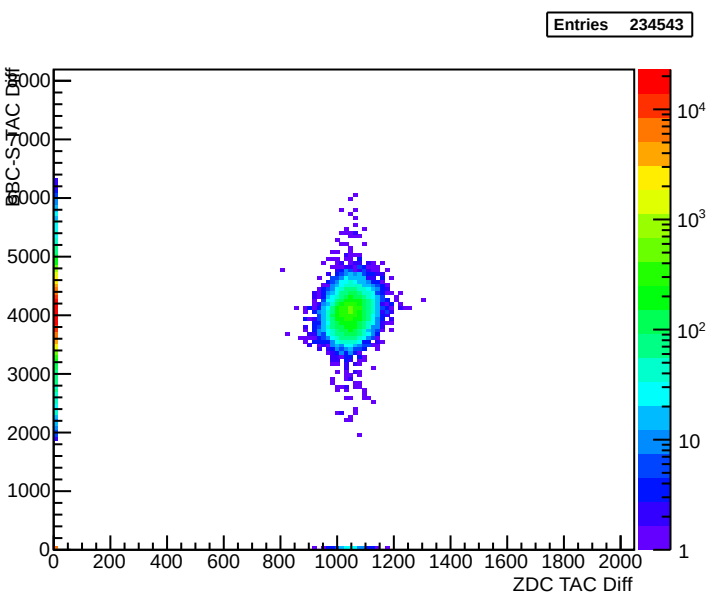

Entries 234543
ZDC East ADC Sum Att
ZDC West ADC Sum Att

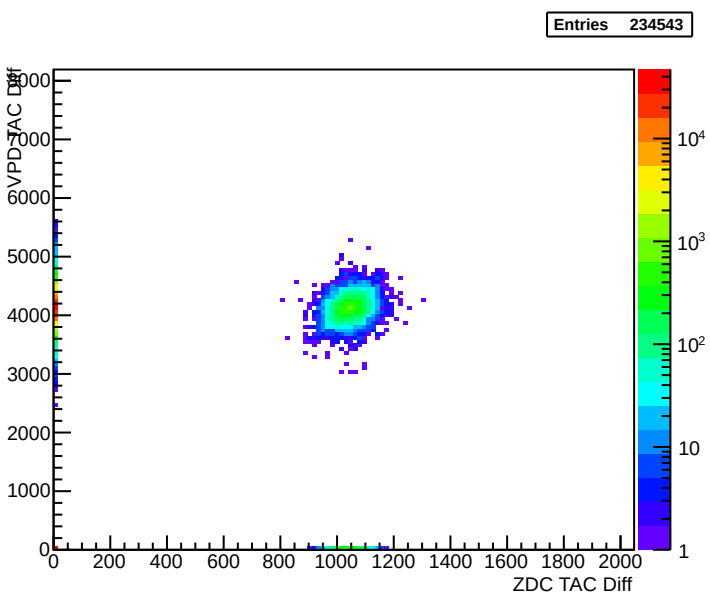

Entries 234543
BBC-L TAC Diff
BCC-S TAC Diff

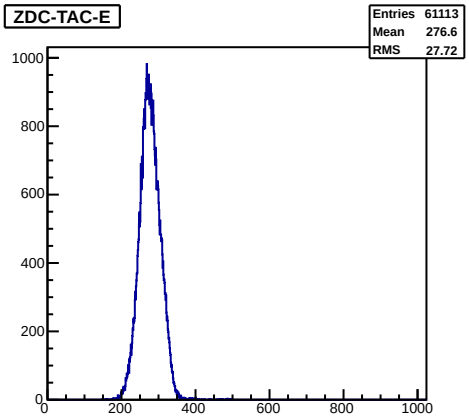

Entries 234543
BBC-L TAC Diff
VPD TAC Diff

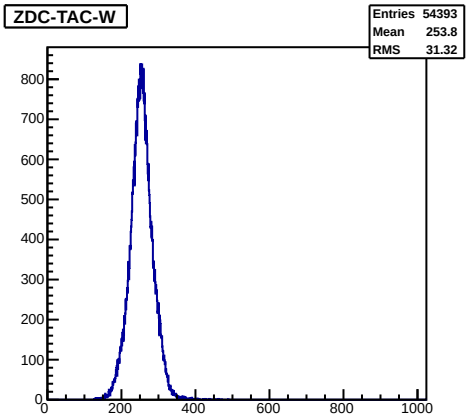

Entries 234543
BBC-L TAC Diff
ZDC TAC Diff

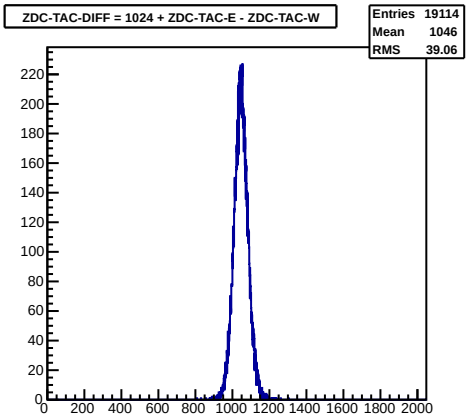

Entries 234543
BBC-S TAC Diff
VPD TAC Diff

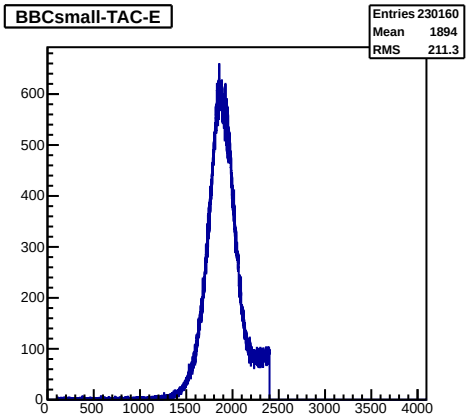

Entries 234543
BBC-S TAC Diff
ZDC TAC Diff

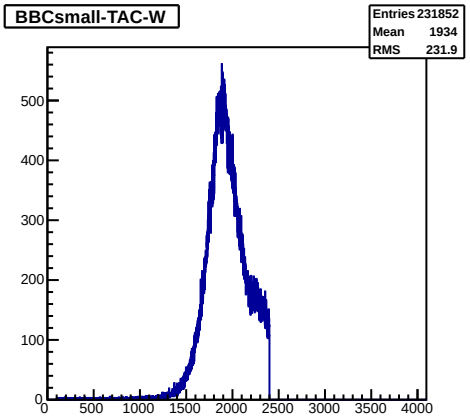

Entries 234543
VPD TAC Diff
ZDC TAC Diff

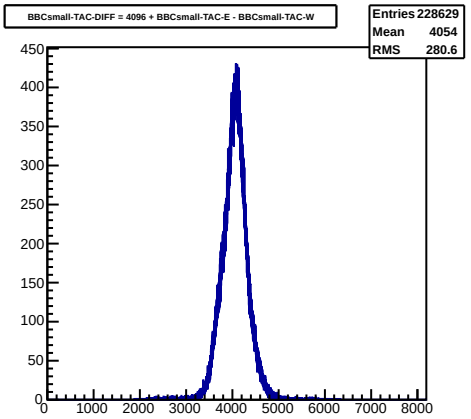

ZDC-TAC-E
Entries 61113
Mean 276.6
RMS 27.72

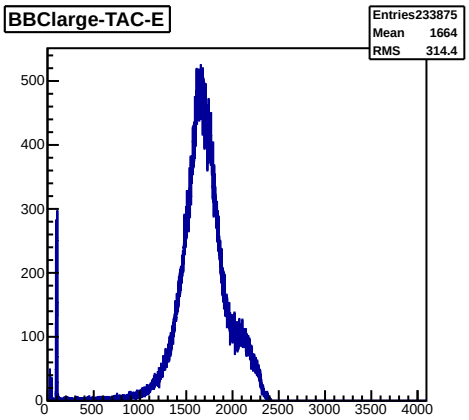

ZDC-TAC-W
Entries 54393
Mean 253.8
RMS 31.32

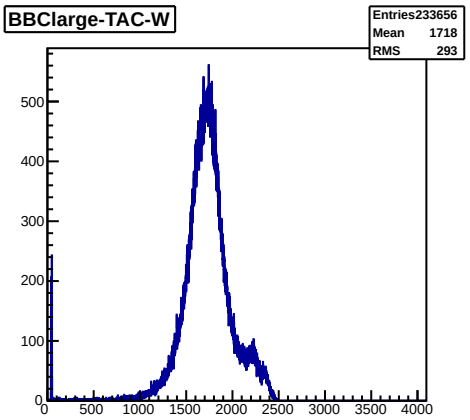

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 19114
Mean 1046
RMS 39.06

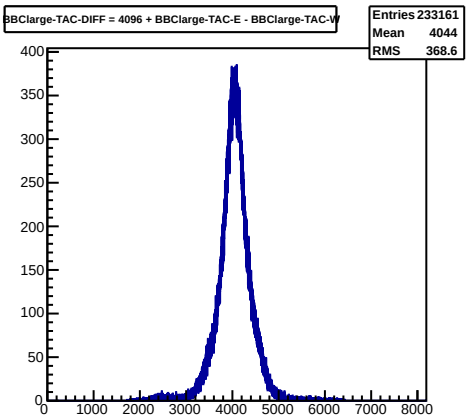

BBCsmall-TAC-E
Entries 230160
Mean 1894
RMS 211.3

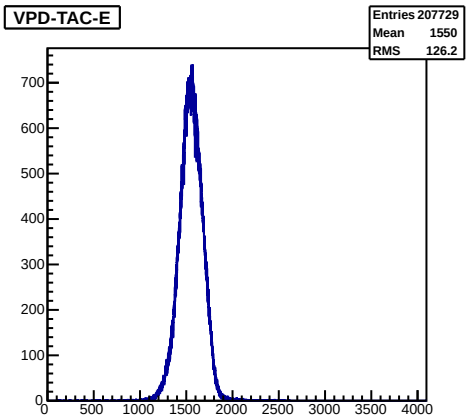

BBCsmall-TAC-W
Entries 231852
Mean 1934
RMS 231.9

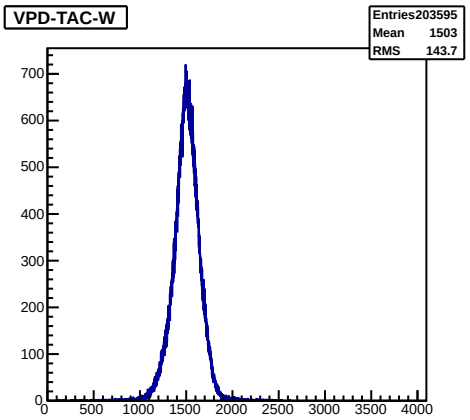

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 228629
Mean 4054
RMS 280.6

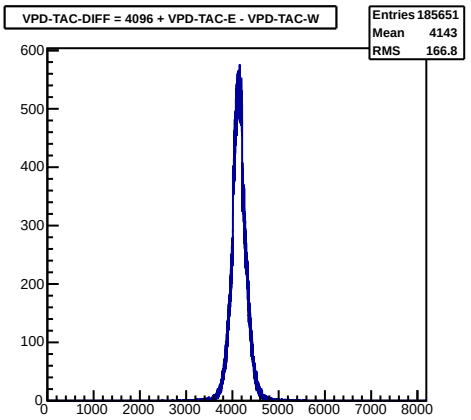

BBClarge-TAC-E
Entries233875
Mean 1664
RMS 314.4

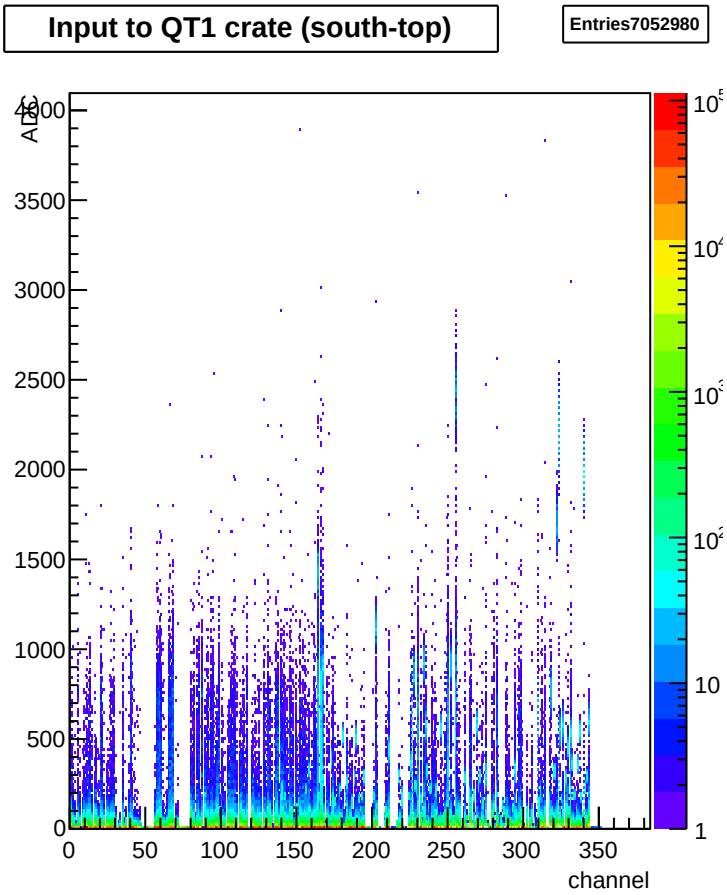

BBClarge-TAC-W
Entries233656
Mean 1718
RMS 293

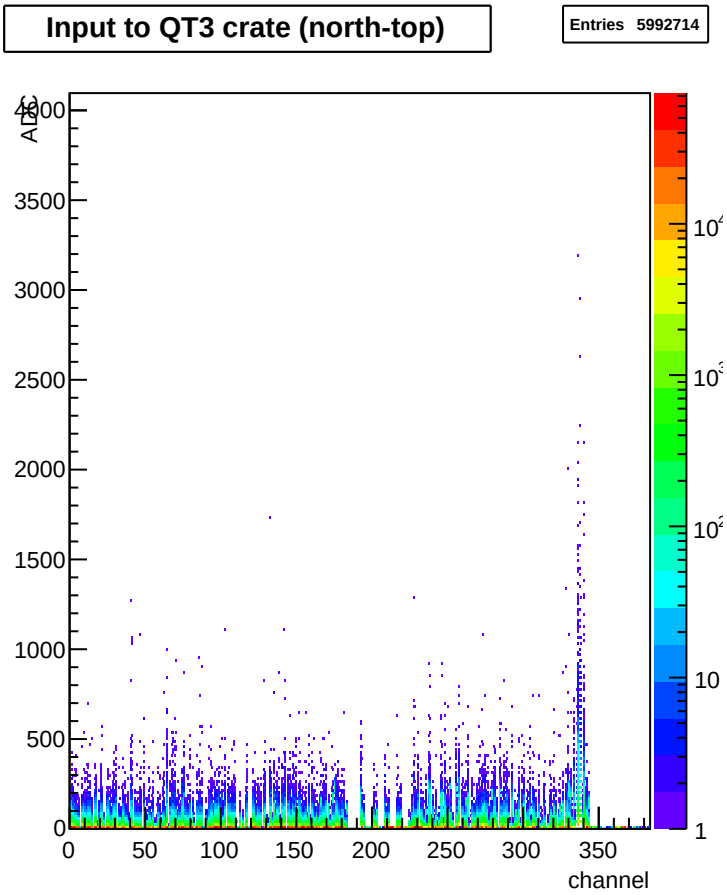

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 233161
Mean 4044
RMS 368.6

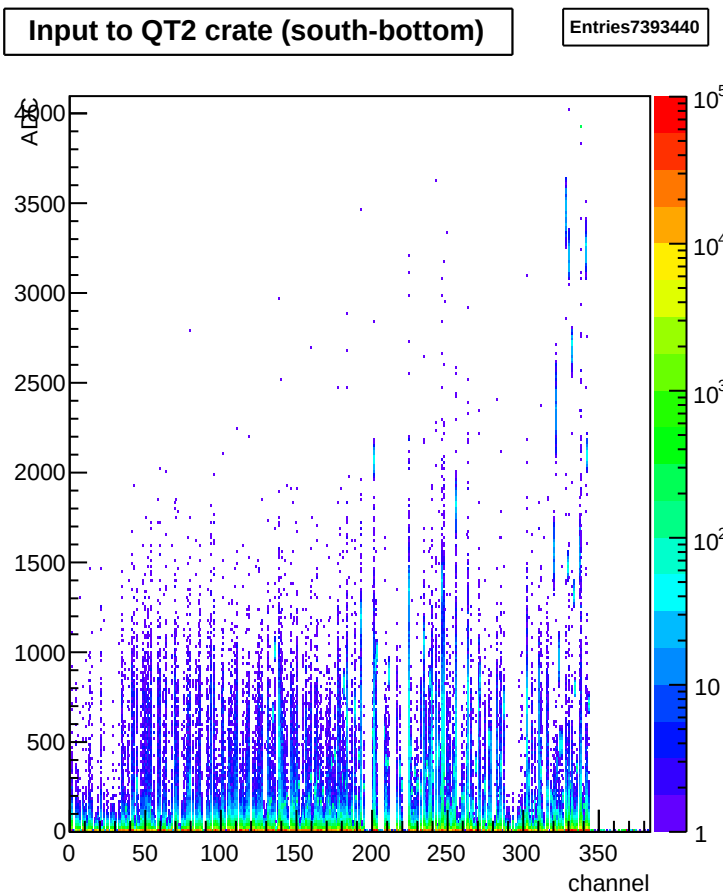

VPD-TAC-E
Entries 207729
Mean 1550
RMS 126.2

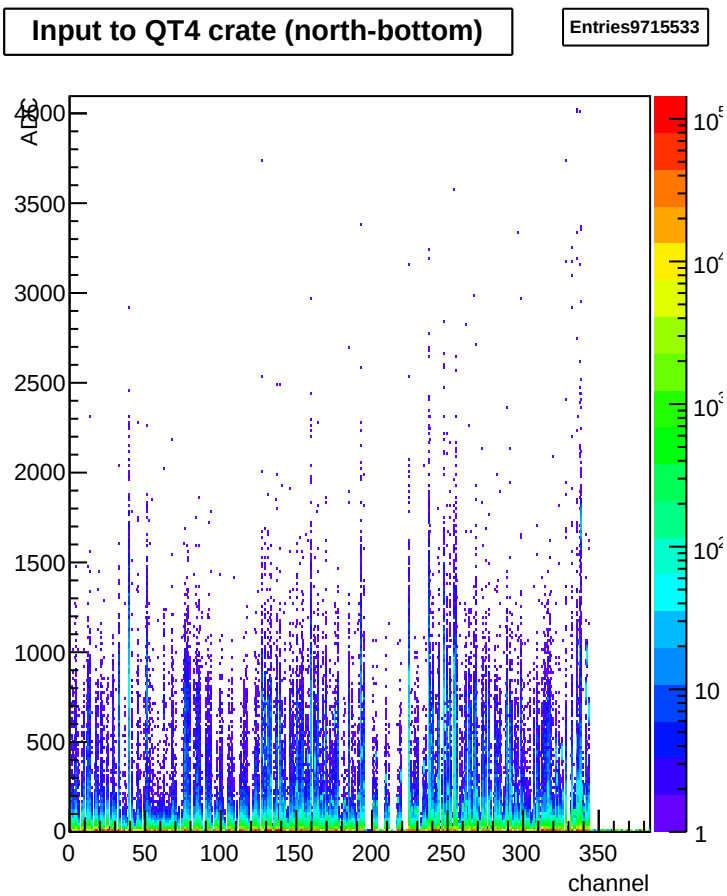

VPD-TAC-W
Entries203595
Mean 1503
RMS 143.7

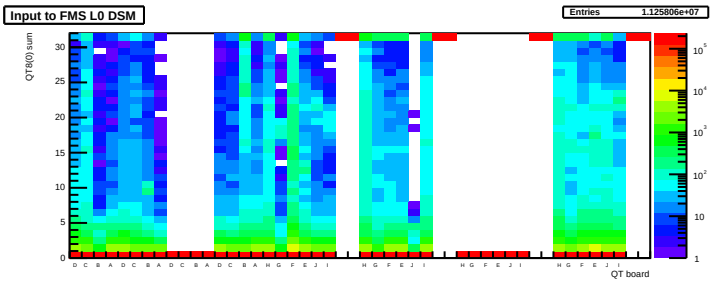

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 185651
Mean 4143
RMS 166.8

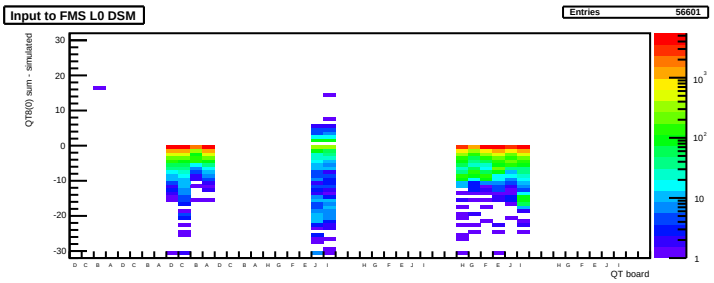

Input to QT1 crate (south-top)
Entries7052980
ADC
channel

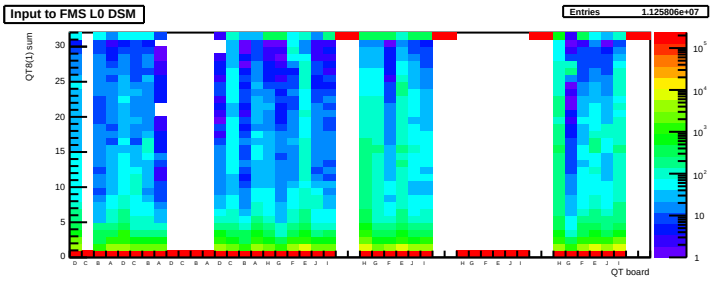

Input to QT3 crate (north-top)
Entries 5992714
ADC
channel

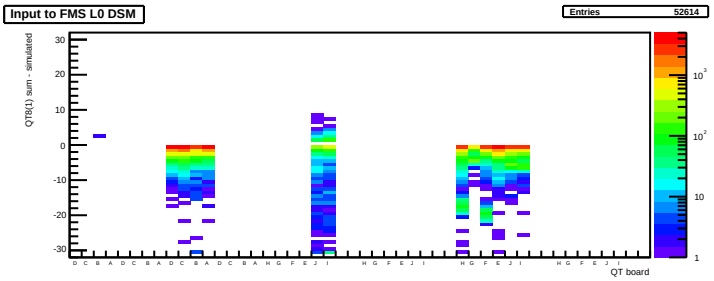

Input to QT2 crate (south-bottom)
Entries7393440
ADC
channel

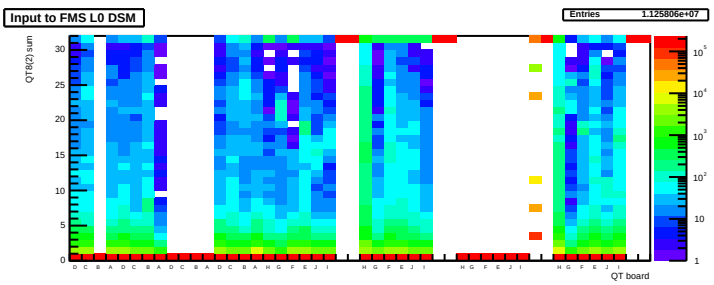

Input to QT4 crate (north-bottom)
Entries9715533
ADC
channel

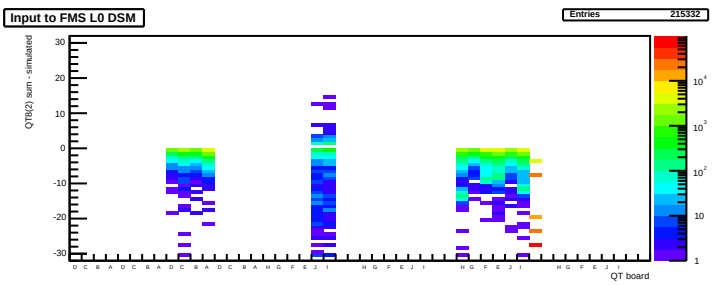

Input to FMS L0 DSM
Entries 1.125806e+07
QT8(0) sum
QT board

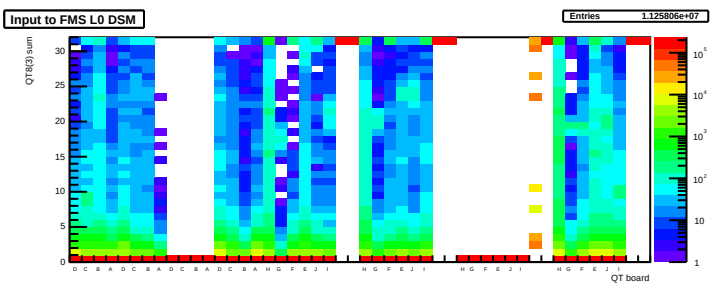

Input to FMS L0 DSM
Entries 56601
QT8(0) sum - simulated
QT board

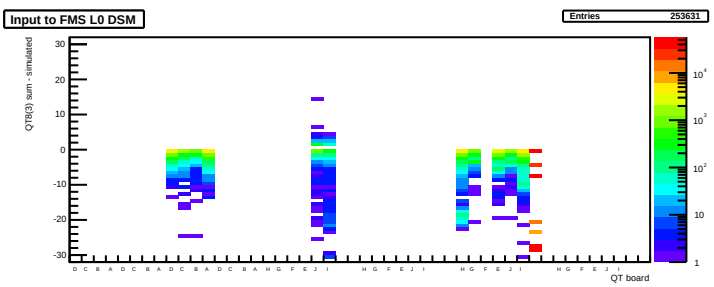

Input to FMS L0 DSM
Entries 1.125806e+07
QT8(1) sum
QT board

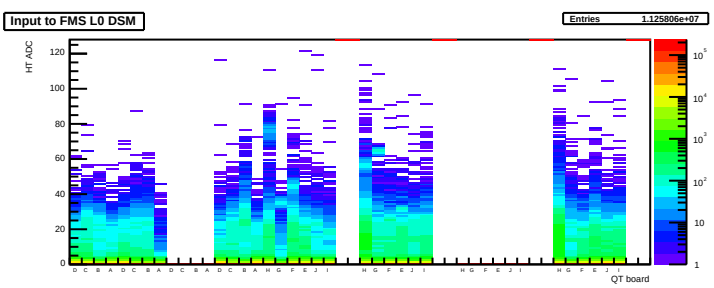

Input to FMS L0 DSM
Entries 52614
QT8(1) sum - simulated
QT board

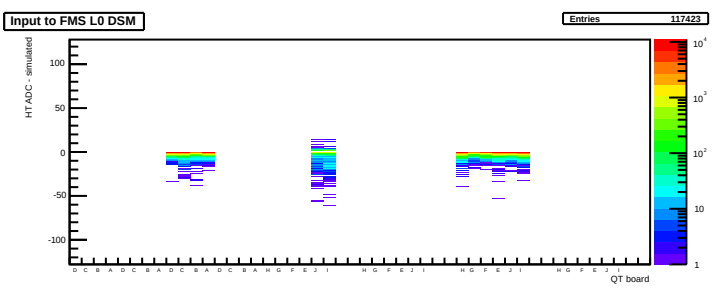

Input to FMS L0 DSM
Entries 1.125806e+07
QT8(2) sum
QT board

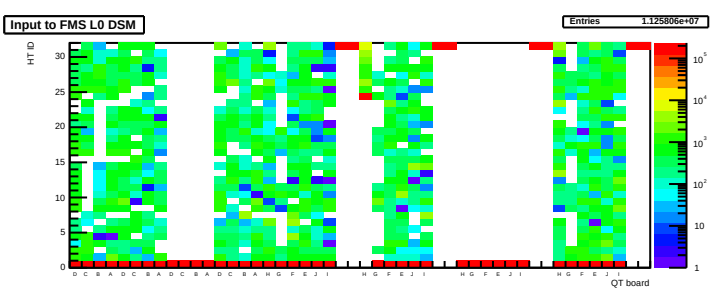

Input to FMS L0 DSM
Entries 215332
QT8(2) sum - simulated
QT board

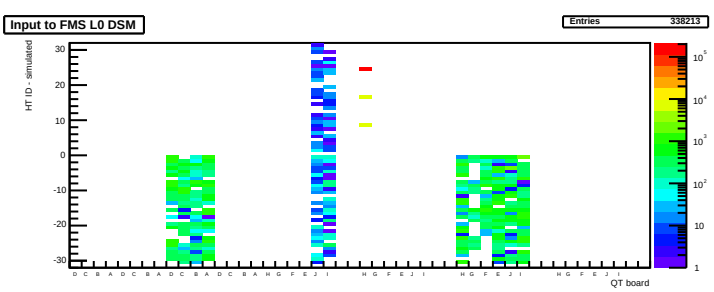

Input to FMS L0 DSM
Entries 1.125806e+07
QT8(3) sum
QT board

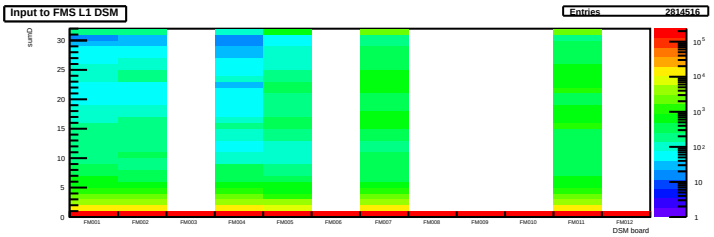

Input to FMS L0 DSM
Entries 253631
QT8(3) sum - simulated
QT board

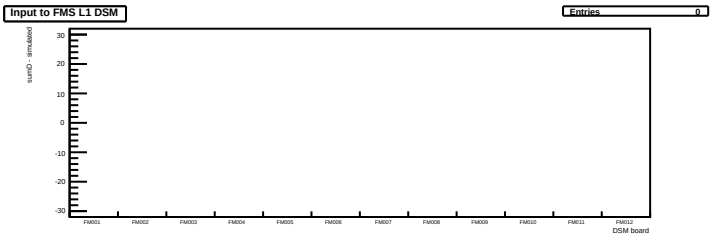

Input to FMS L0 DSM
Entries 1.125806e+07
HT ADC
QT board

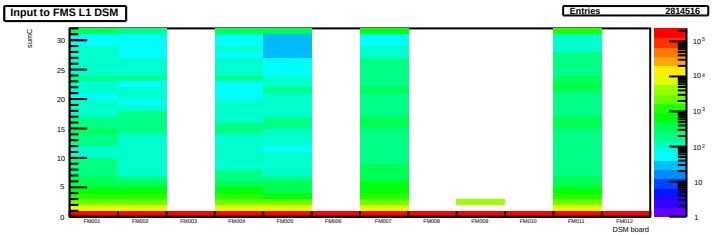

Input to FMS L0 DSM
Entries 117423
HT ADC - simulated
QT board

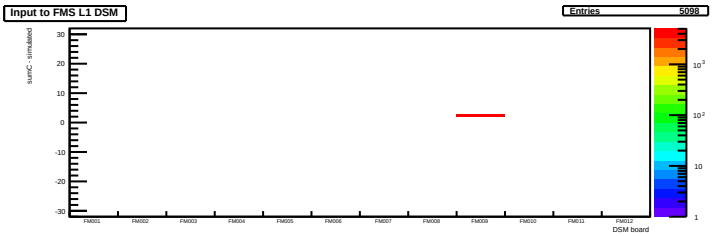

Input to FMS L0 DSM
Entries 1.125806e+07
HT ID
QT board

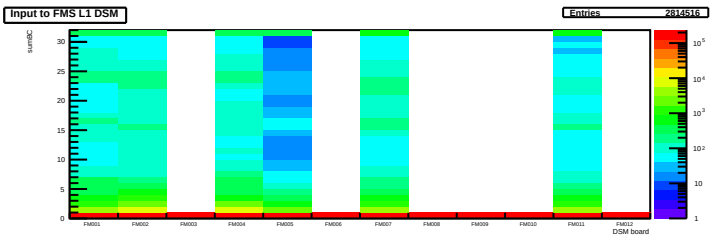

Input to FMS L0 DSM
Entries 338213
HT ID - simulated
QT board

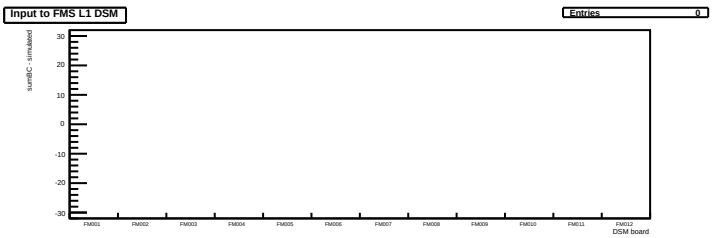

Input to FMS L1 DSM
Entries 2814516
sumD
DSM board

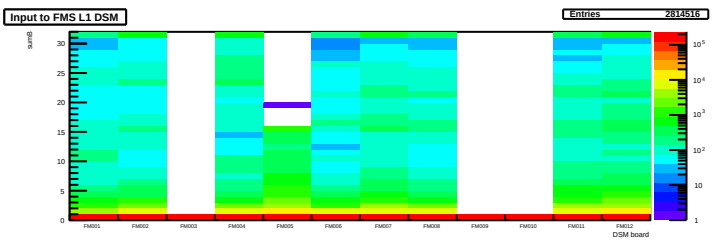

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

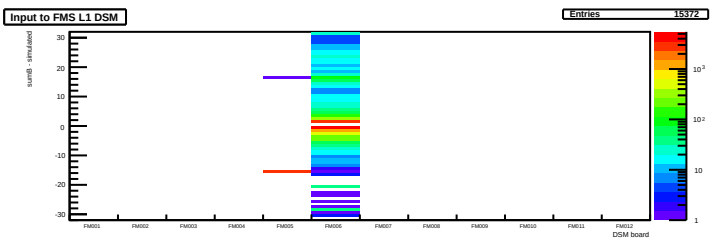

Input to FMS L1 DSM
Entries 2814516
sumC
DSM board

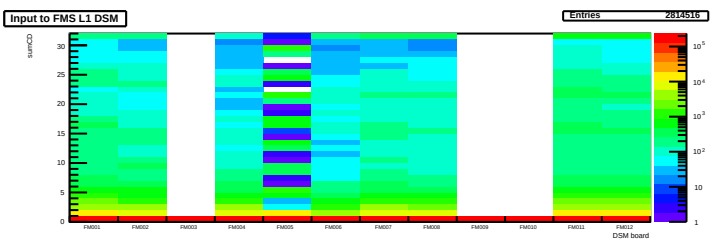

Input to FMS L1 DSM
Entries 5098
sumC - simulated
DSM board

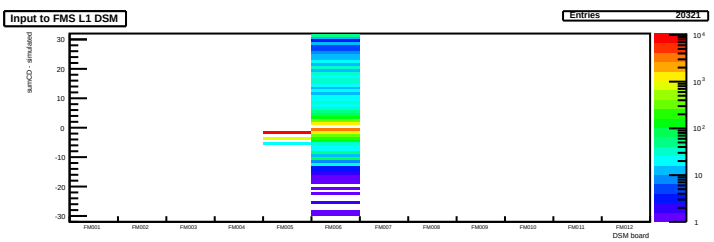

Input to FMS L1 DSM
Entries 2814516
sumBC
DSM board

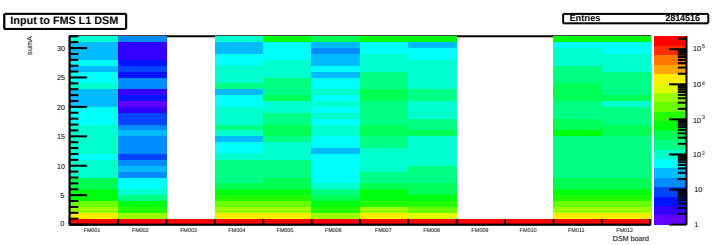

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

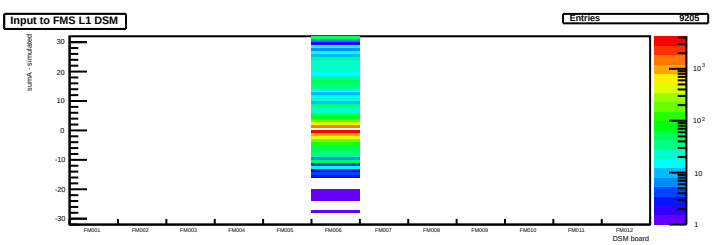

Input to FMS L1 DSM
Entries 2814516
sumB
DSM board

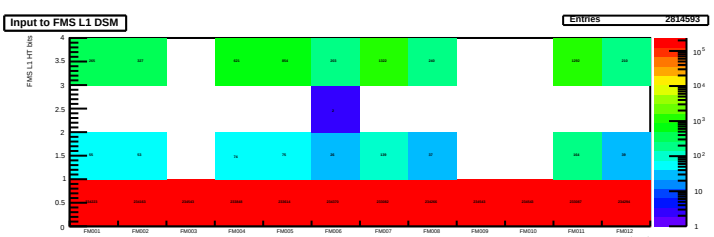

Input to FMS L1 DSM
Entries 15372
sumB - simulated
DSM board

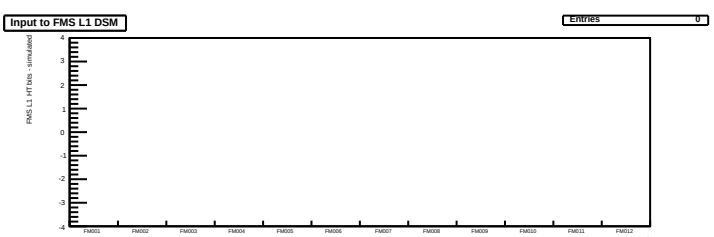

Input to FMS L1 DSM
Entries 2814516
sumCD
DSM board

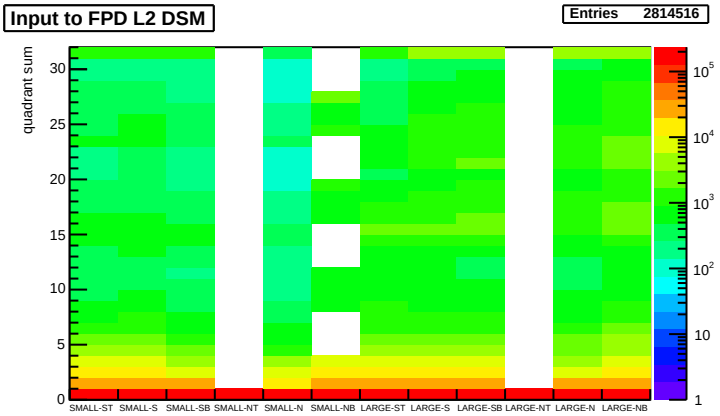

Input to FMS L1 DSM
Entries 20321
sumCD - simulated
DSM board

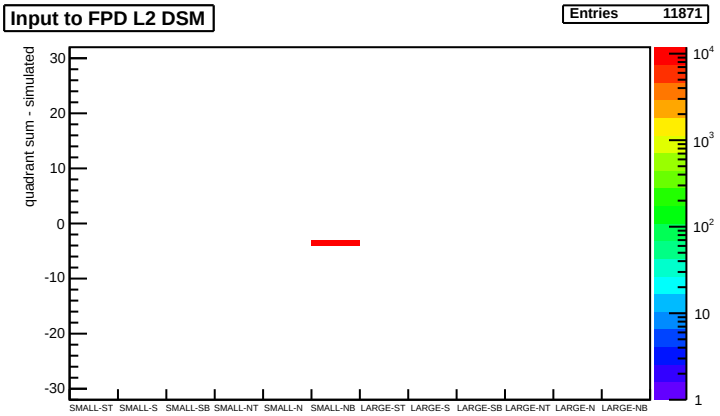

Input to FMS L1 DSM
Entries 2814516
sumA
DSM board

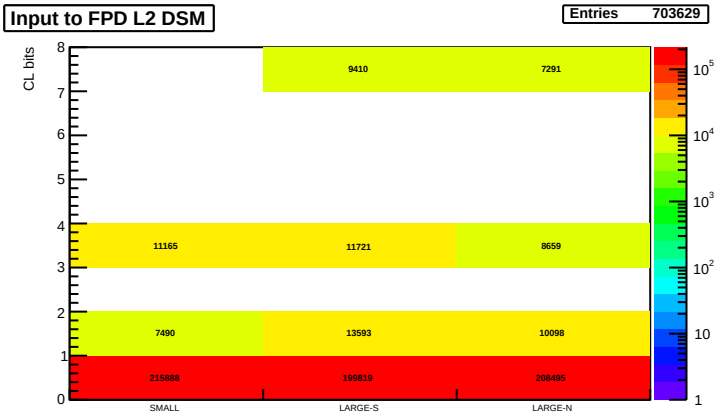

Input to FMS L1 DSM
Entries 9205
sumA - simulated
DSM board

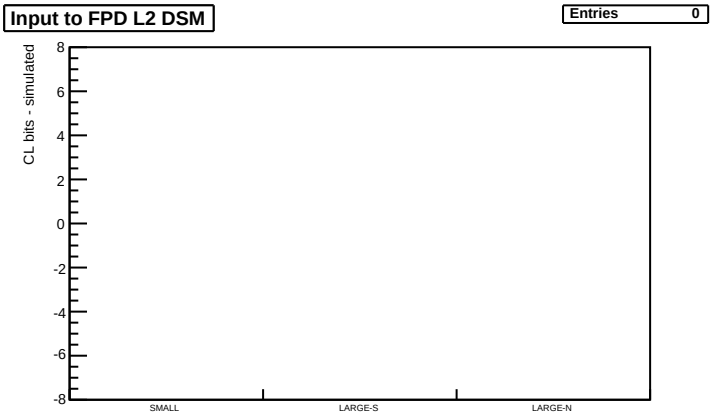

Input to FMS L1 DSM
Entries 2814593
FMS L1 HT bits
DSM board

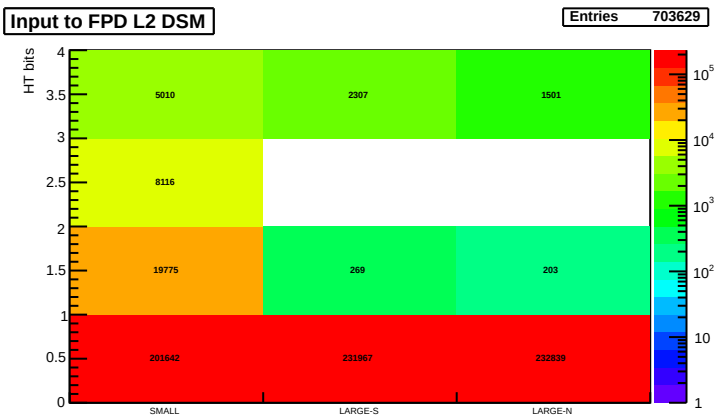

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

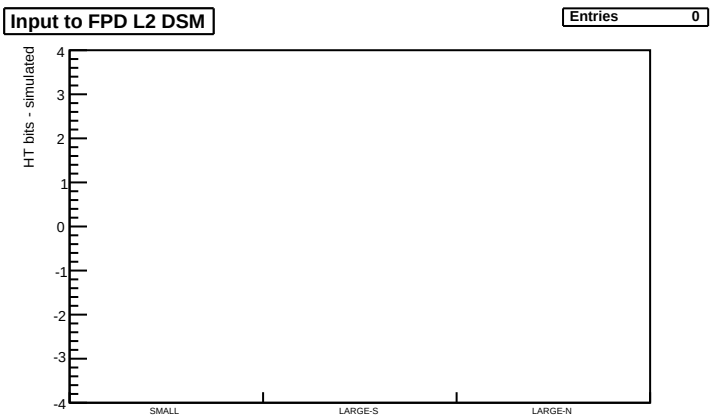

Input to FPD L2 DSM
Entries 2814516
quadrant sum
SMALL-ST SMALL-S SMALL-SB SMALL-NT SMALL-N SMALL-NB LARGE-ST LARGE-S LARGE-SB LARGE-NT LARGE-N LARGE-NB

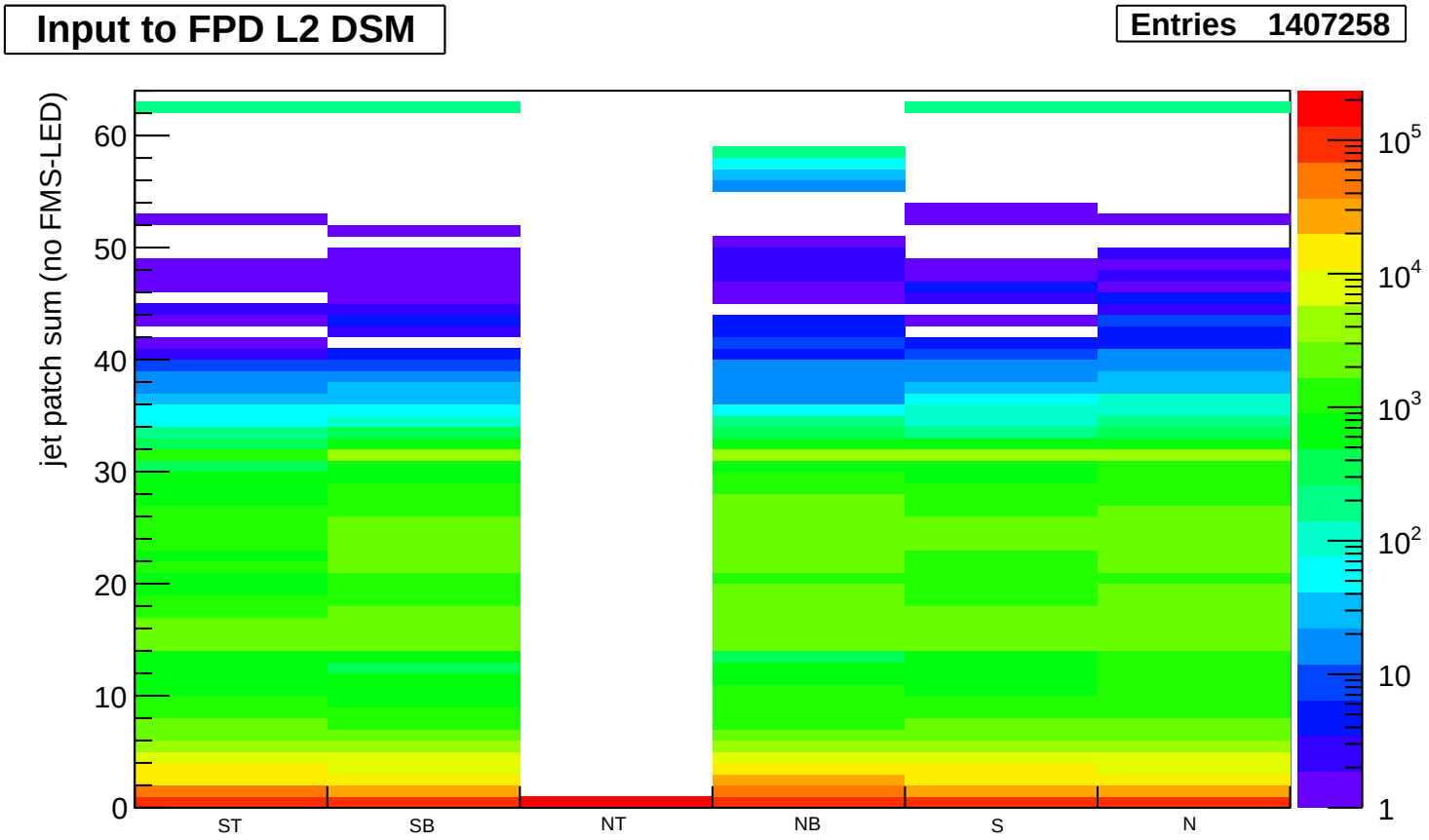

Input to FPD L2 DSM
Entries 11871
quadrant sum - simulated
SMALL-ST SMALL-S SMALL-SB SMALL-NT SMALL-N SMALL-NB LARGE-ST LARGE-S LARGE-SB LARGE-NT LARGE-N LARGE-NB

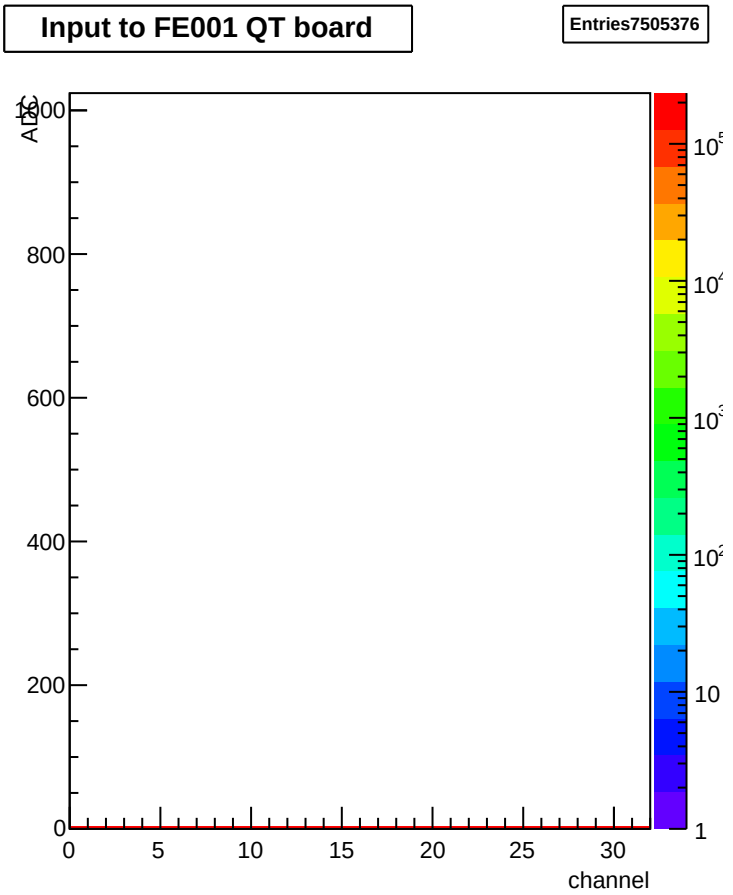

Input to FPD L2 DSM
Entries 703629
CL bits
9410
7291
11165
11721
8659
7490
13593
10098
215888
199819
208495
SMALL
LARGE-S
LARGE-N

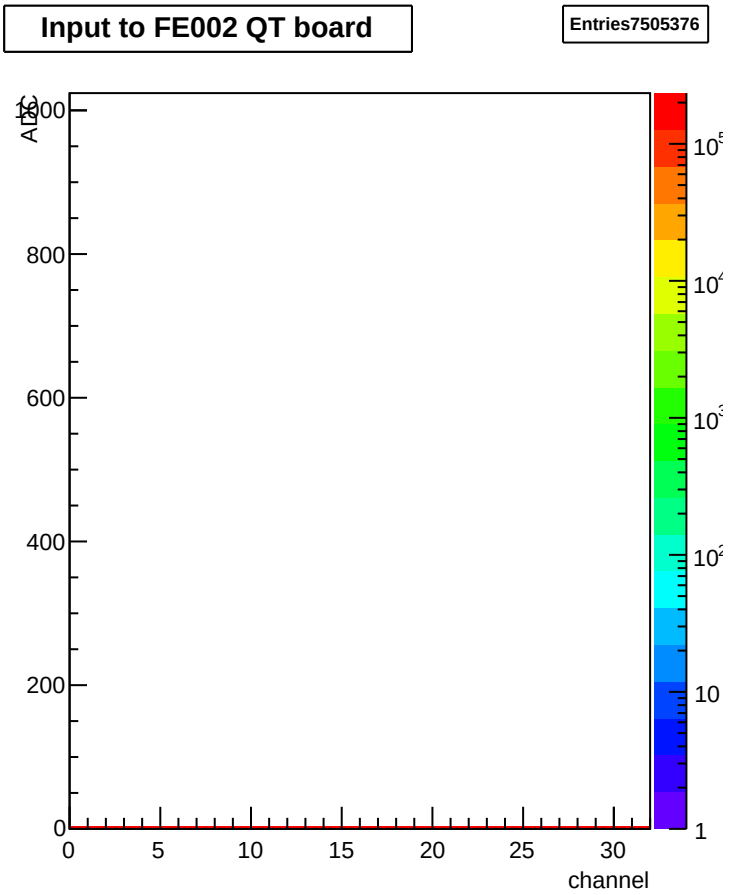

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

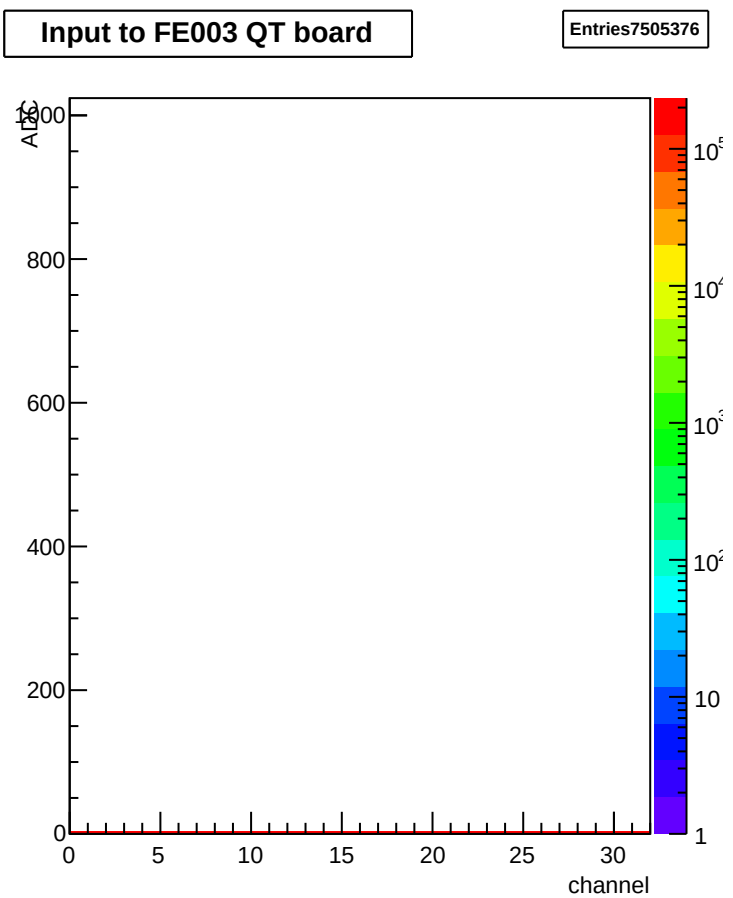

Input to FPD L2 DSM
Entries 703629
HT bits
5010
2307
1501
8116
19775
269
203
201642
231967
232839
SMALL
LARGE-S
LARGE-N

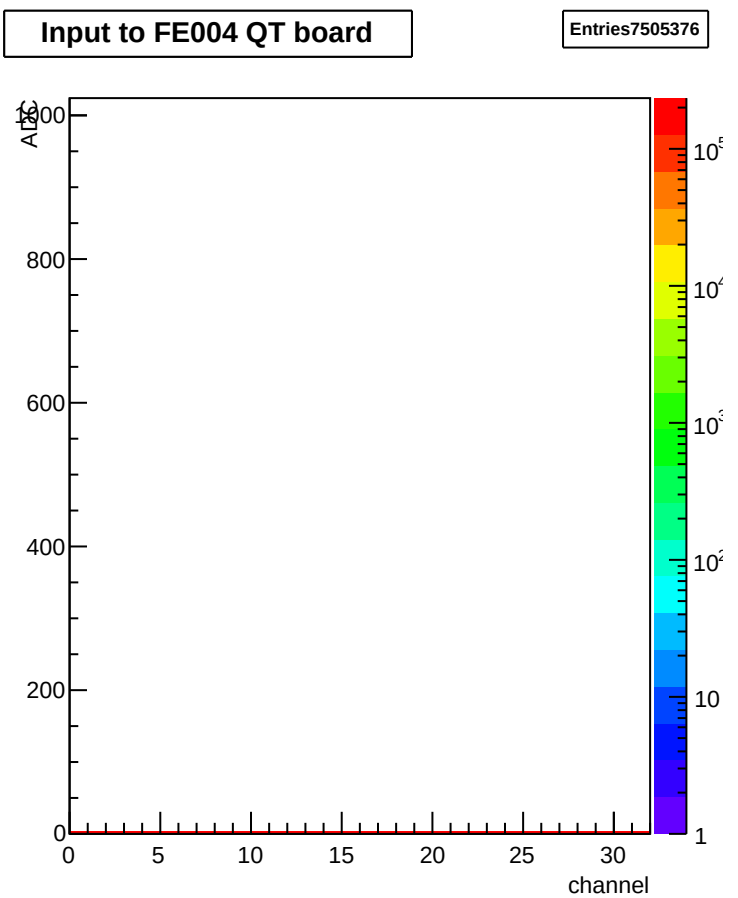

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

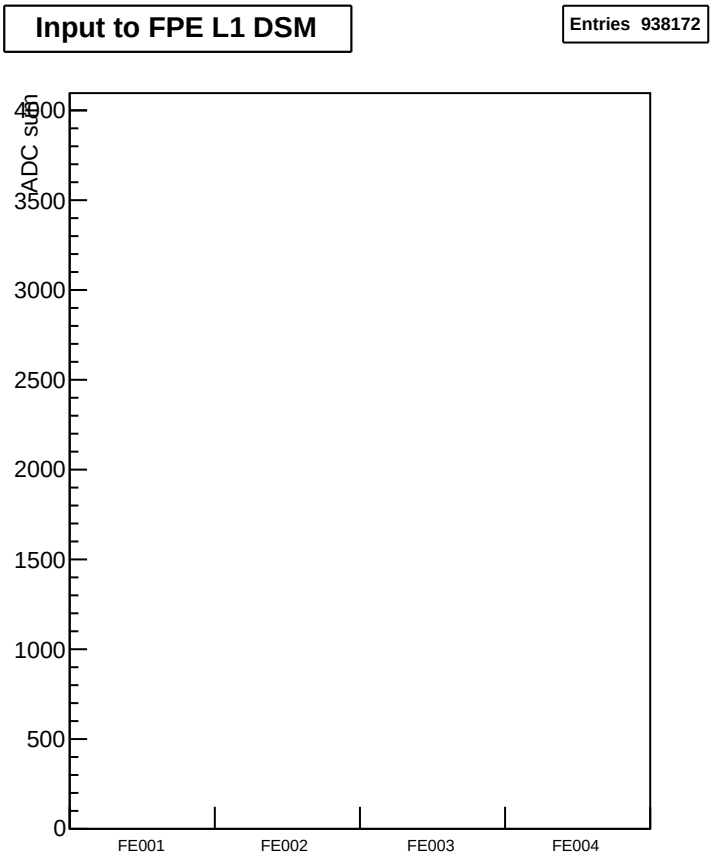

Input to FPD L2 DSM
Entries 1407258
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

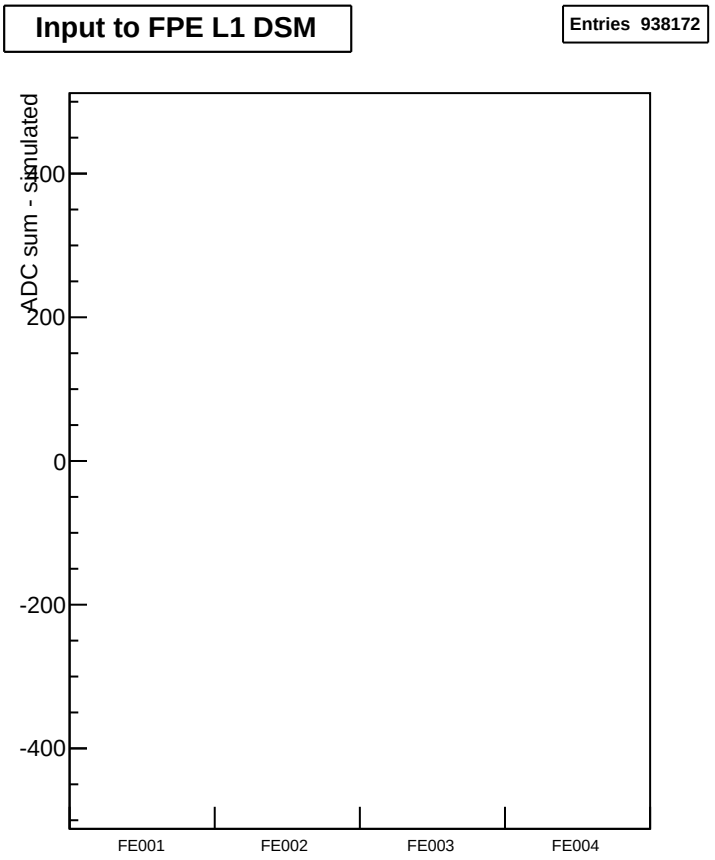

Input to FE001 QT board
Entries7505376
ADC
channel

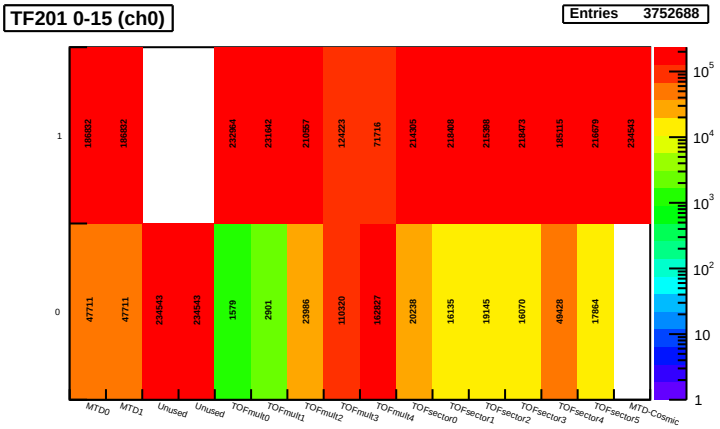

Input to FE002 QT board
Entries7505376
ADC
channel

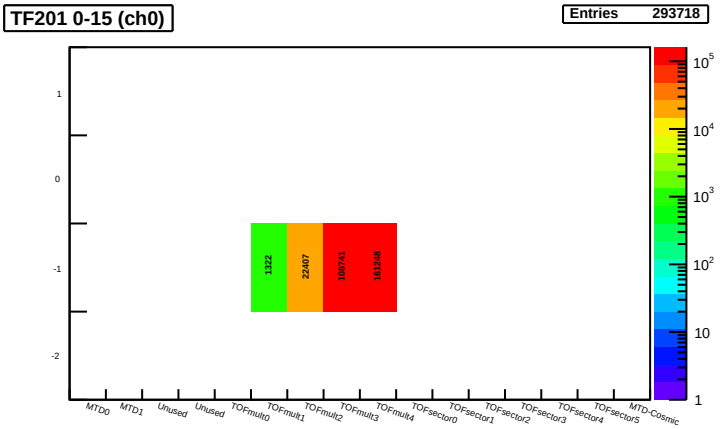

Input to FE003 QT board
Entries7505376
ADC
channel

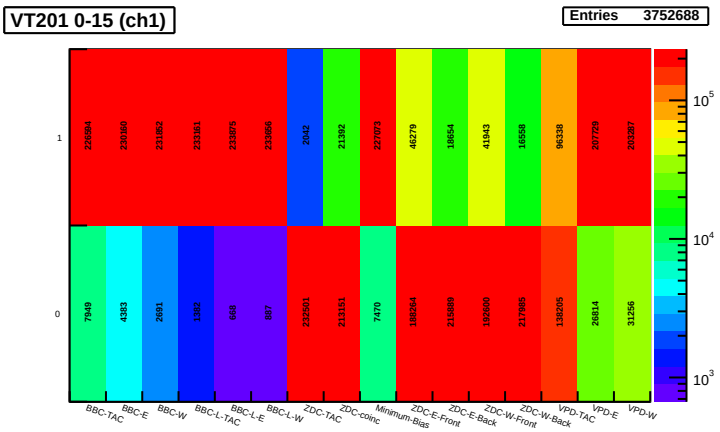

Input to FE004 QT board
Entries7505376
ADC
channel

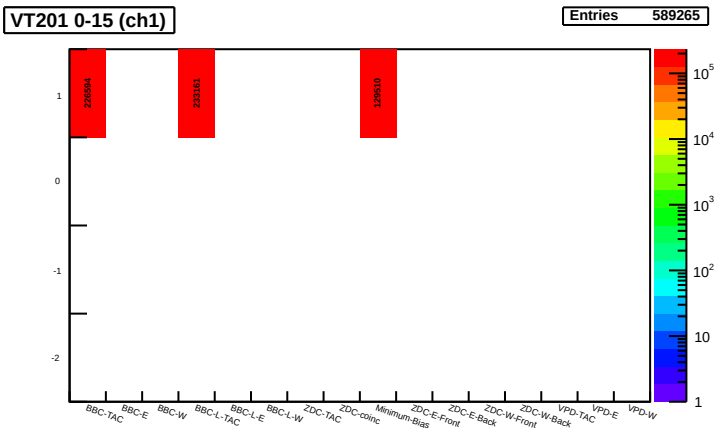

Input to FPE L1 DSM
Entries 938172
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004

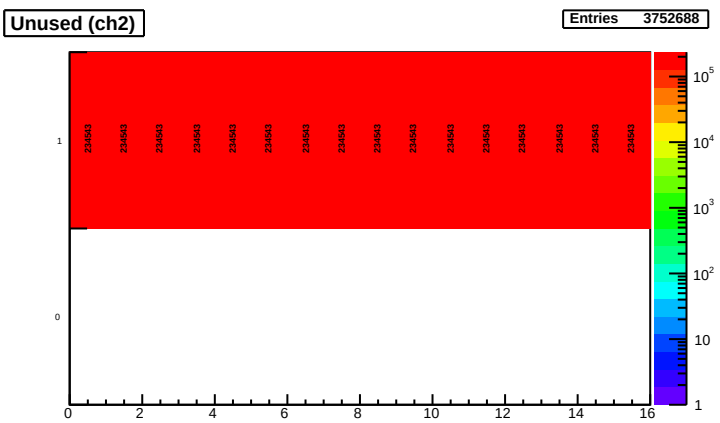

Input to FPE L1 DSM
Entries 938172
ADC sum - simulated
400
200
0
-200
-400
FE001
FE002
FE003
FE004

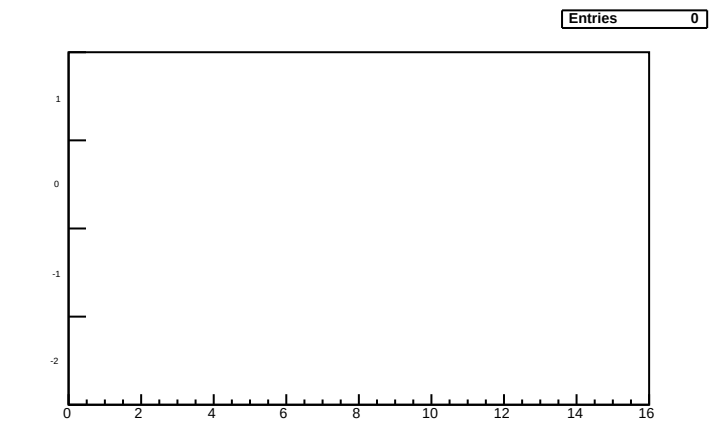

TF201 0-15 (ch0)
Entries 3752688
186882 186882 232964 231642 210557 124223 71716 214305 218408 215398 218473 185115 216679 234543
47711 47711 234543 234543 1579 2901 23986 110320 162827 20238 16135 19145 16070 49428 17864
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

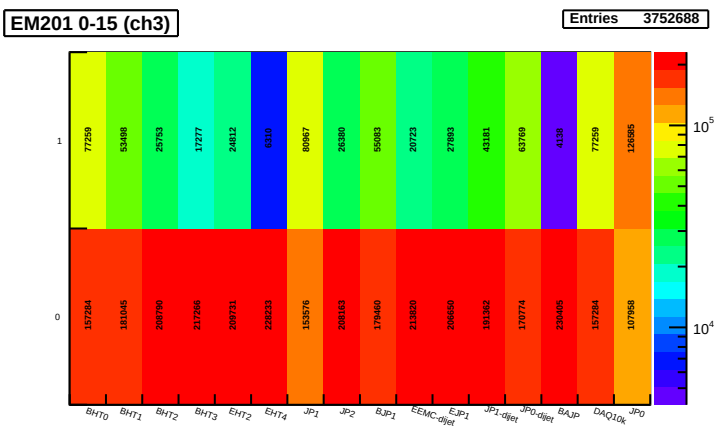

TF201 0-15 (ch0)
Entries 293718
1322 22407 108741 161248
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

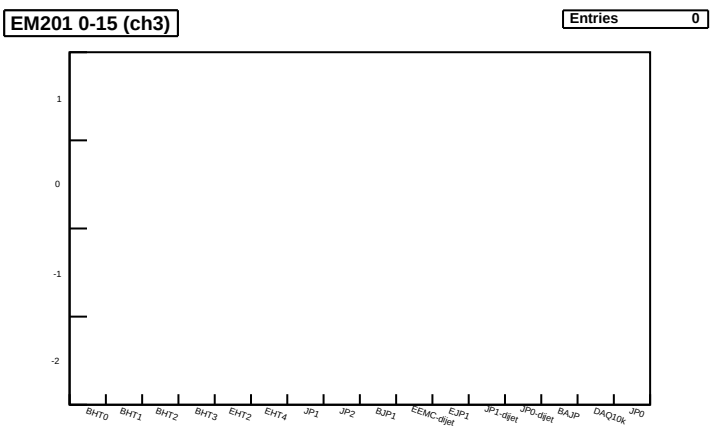

VT201 0-15 (ch1)
Entries 3752688
226594 230160 231852 233351 233875 233656 2042 21392 227073 46279 18654 41943 16558 96338 207729 203287
7949 4383 2691 1382 668 687 232591 213151 7470 185264 215889 192600 217985 138205 26814 31256
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-coinc Minimum-Bias ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

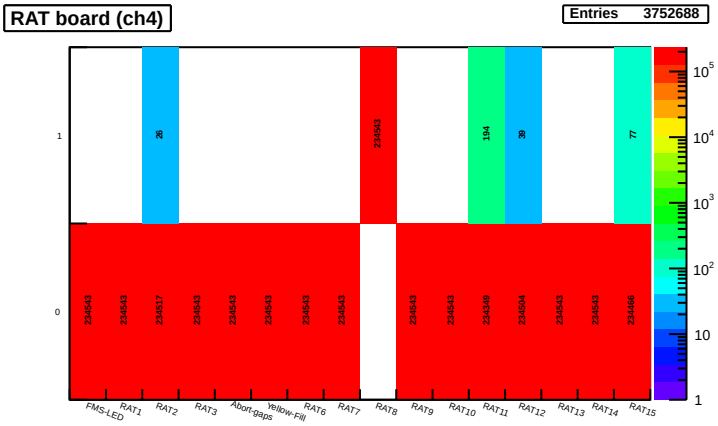

VT201 0-15 (ch1)
Entries 589265
226594 233161 129510
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-coinc Minimum-Bias ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

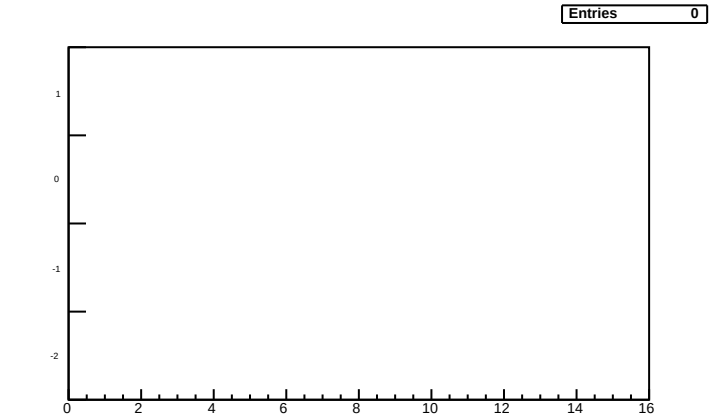

Unused (ch2)
Entries 3752688
234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543 234543

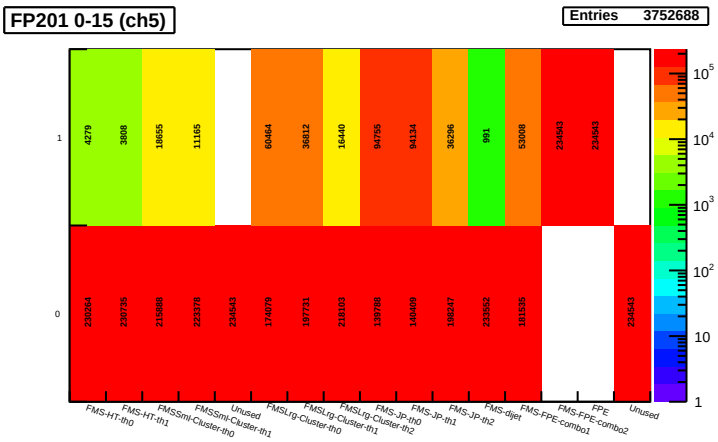

Entries 0

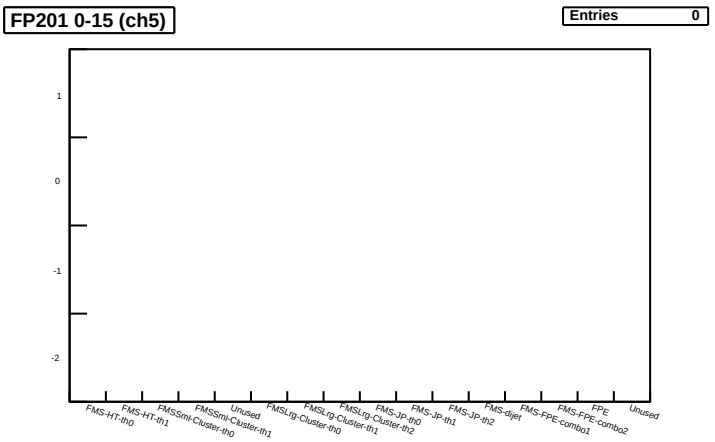

EM201 0-15 (ch3)
Entries 3752688
77259 53498 25753 17277 24812 6310 80967 26380 55083 20723 27893 43181 63769 4138 77259 126985
157284 181045 209790 217266 209731 228233 153576 209163 179460 213220 206550 191362 176774 230405 157284 107958
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 EEMC-diJet EJP-1 JP1-diJet JP0-diJet BAJP DAQ10k JP0

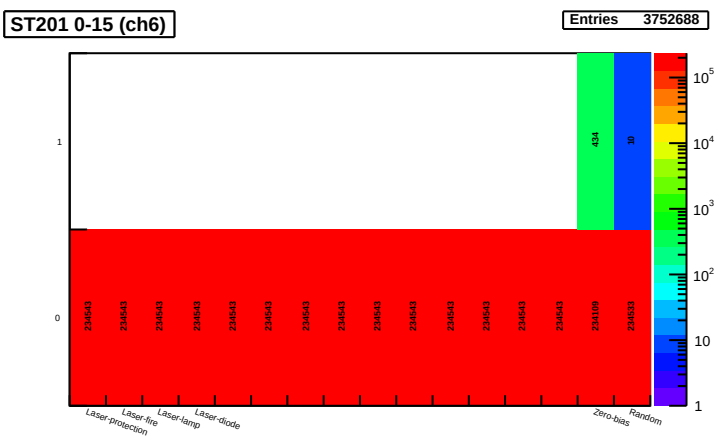

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 EEMC-diJet EJP-1 JP1-diJet JP0-diJet BAJP DAQ10k JP0


RAT board (ch4)
Entries 3752688
26
234543
194
39
77
234543 234543 234517 234543 234543 234543 234543 234543 234543 234543 234349 234504 234543 234543 234466
FMS-LED RAT1 RAT2 RAT3 Abort-gaps Yellow-Fill RAT6 RAT7 RAT8 RAT9 RAT10 RAT11 RAT12 RAT13 RAT14 RAT15


Entries 0


FP201 0-15 (ch5)
Entries 3752688
4279 3808 18655 11165 60464 36812 16440 94755 94134 36296 991 53008 234543 234543
230264 230735 215888 223378 234543 174079 197751 218103 139788 140409 198247 233552 181535 234543
FMS-HT-th0 FMS-HT-th1 FMSSmi-Cluster-th0 FMSSmi-Cluster-th1 Unused FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-dijet FMS-FPE-combo1 FMS-FPE-combo2 FPE Unused


FP201 0-15 (ch5)
Entries 0
FMS-HT-th0 FMS-HT-th1 FMSSmi-Cluster-th0 FMSSmi-Cluster-th1 Unused FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-dijet FMS-FPE-combo1 FMS-FPE-combo2 FPE Unused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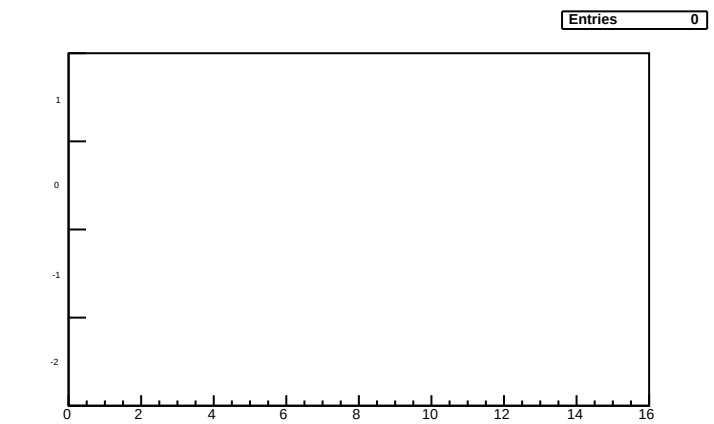
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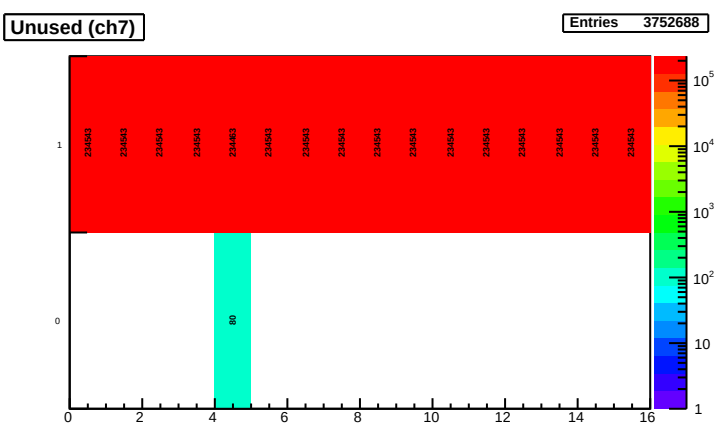
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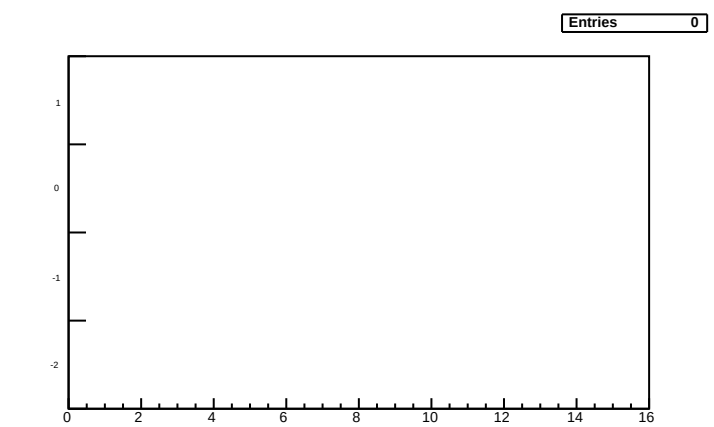
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