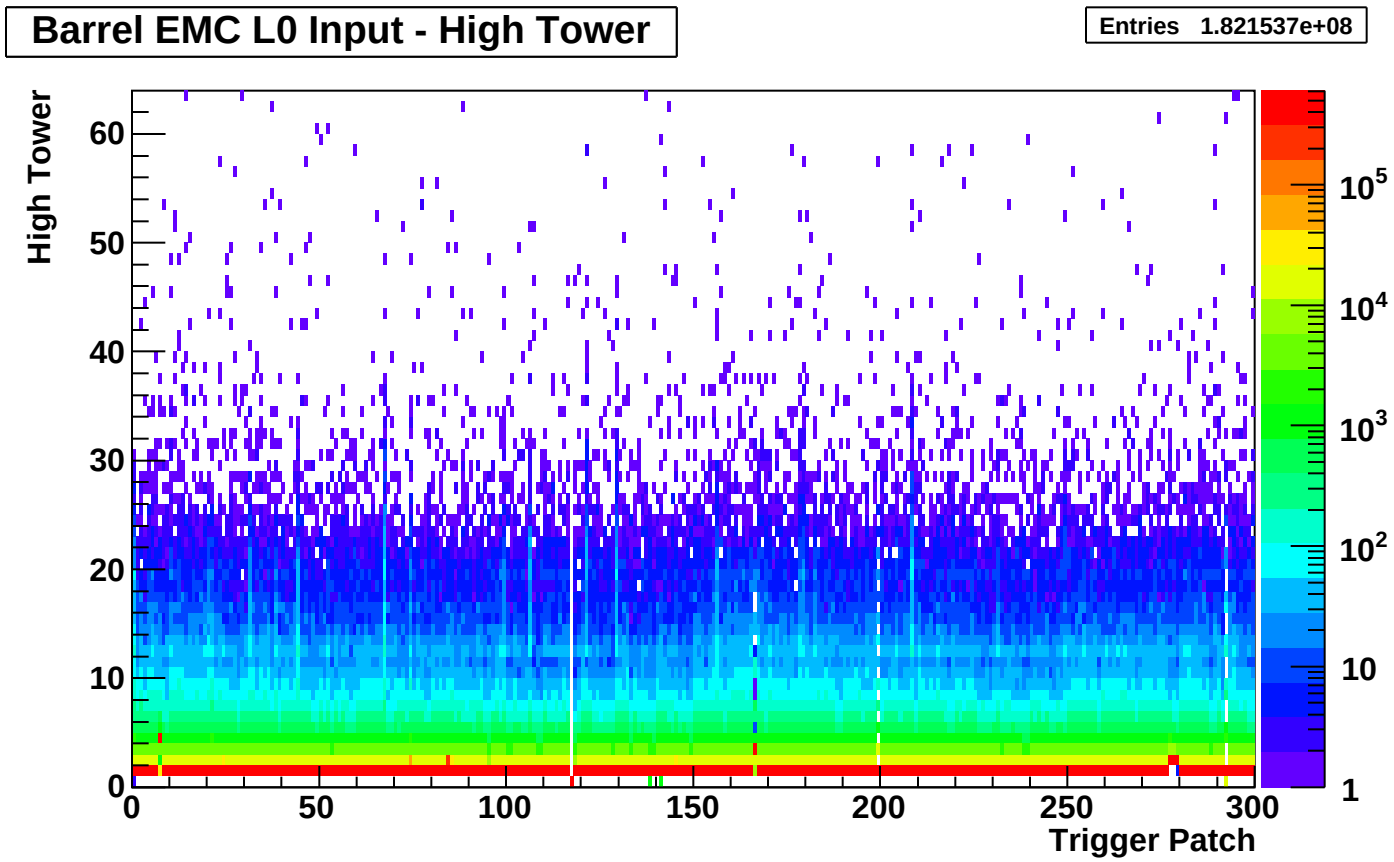
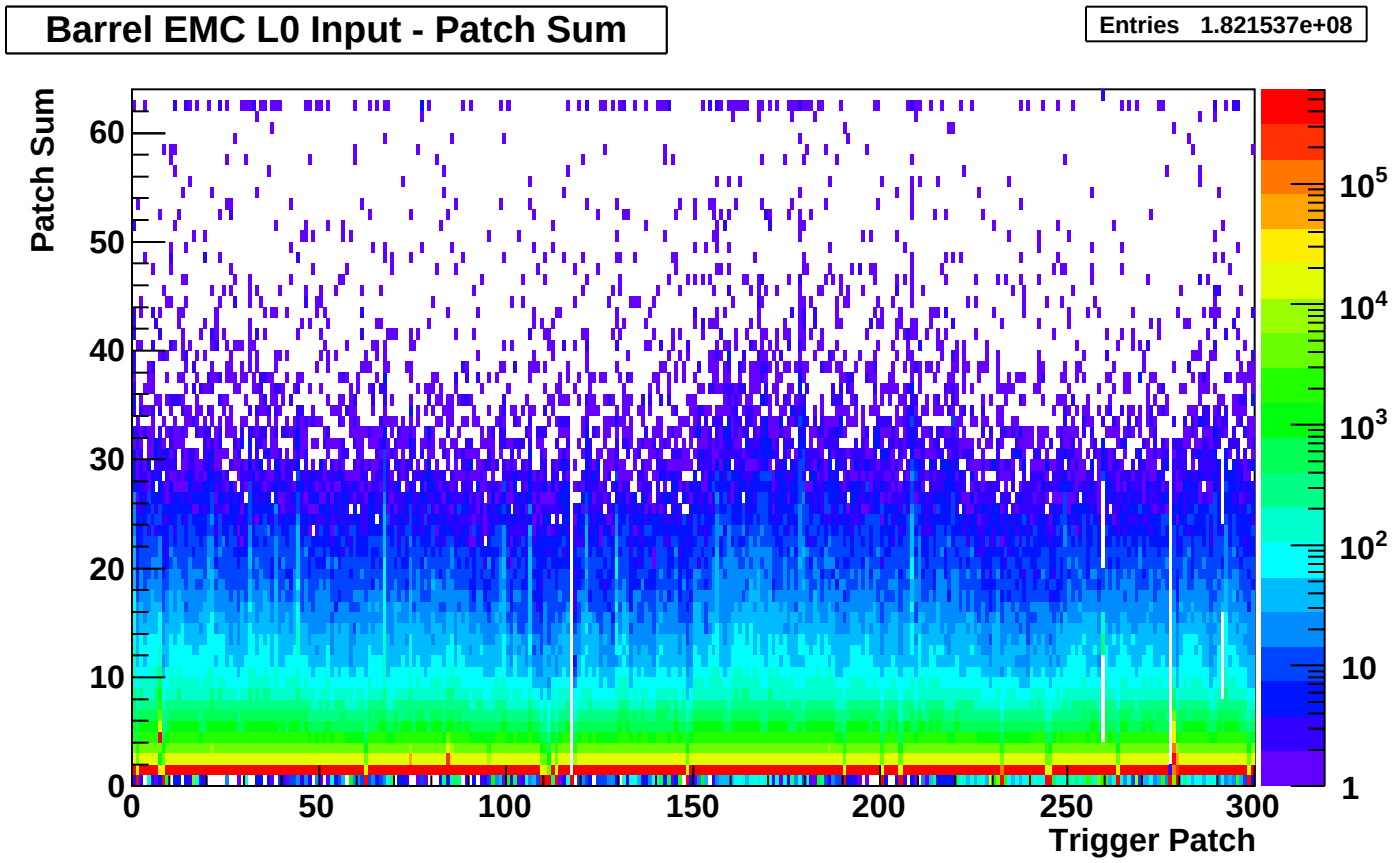
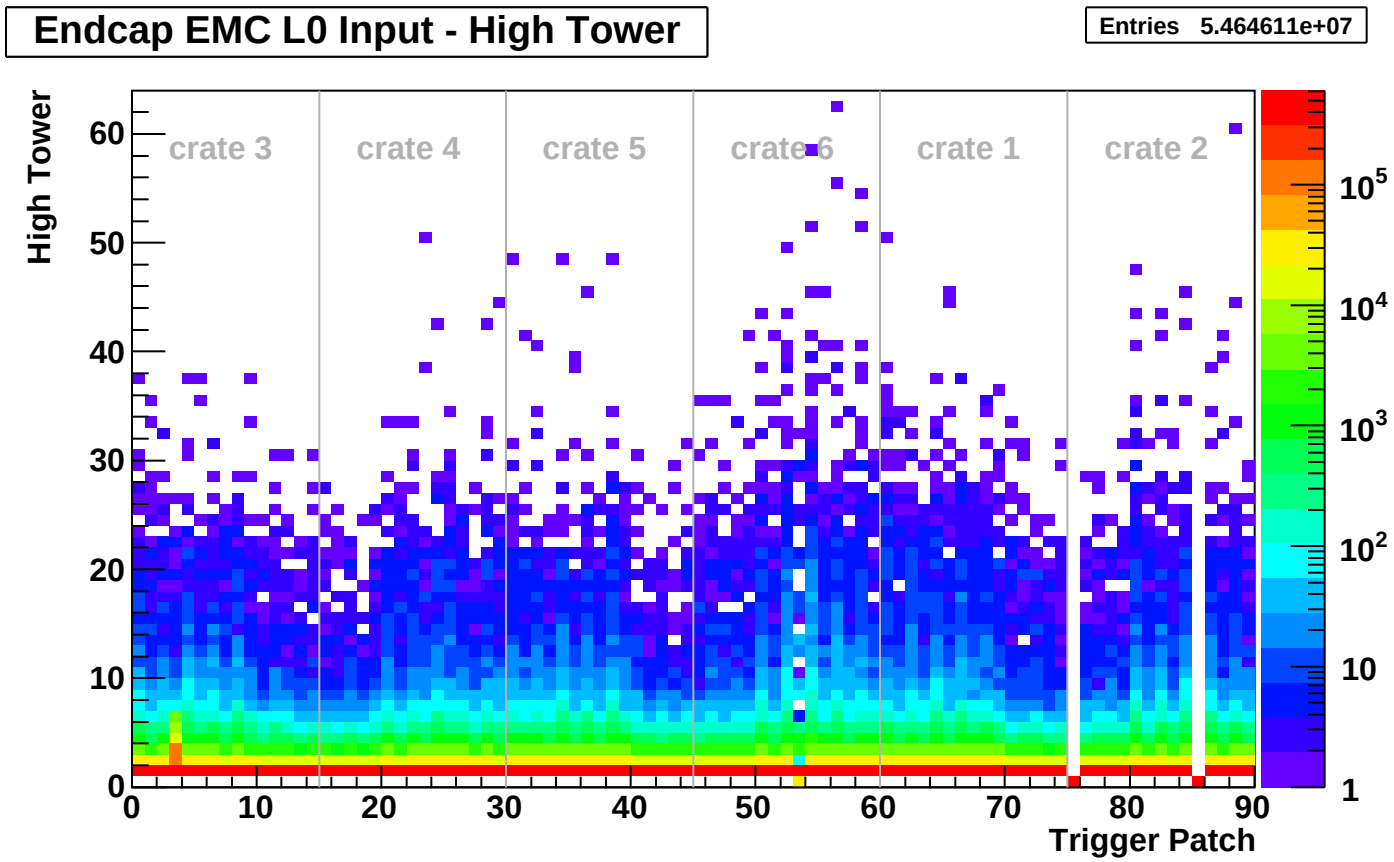
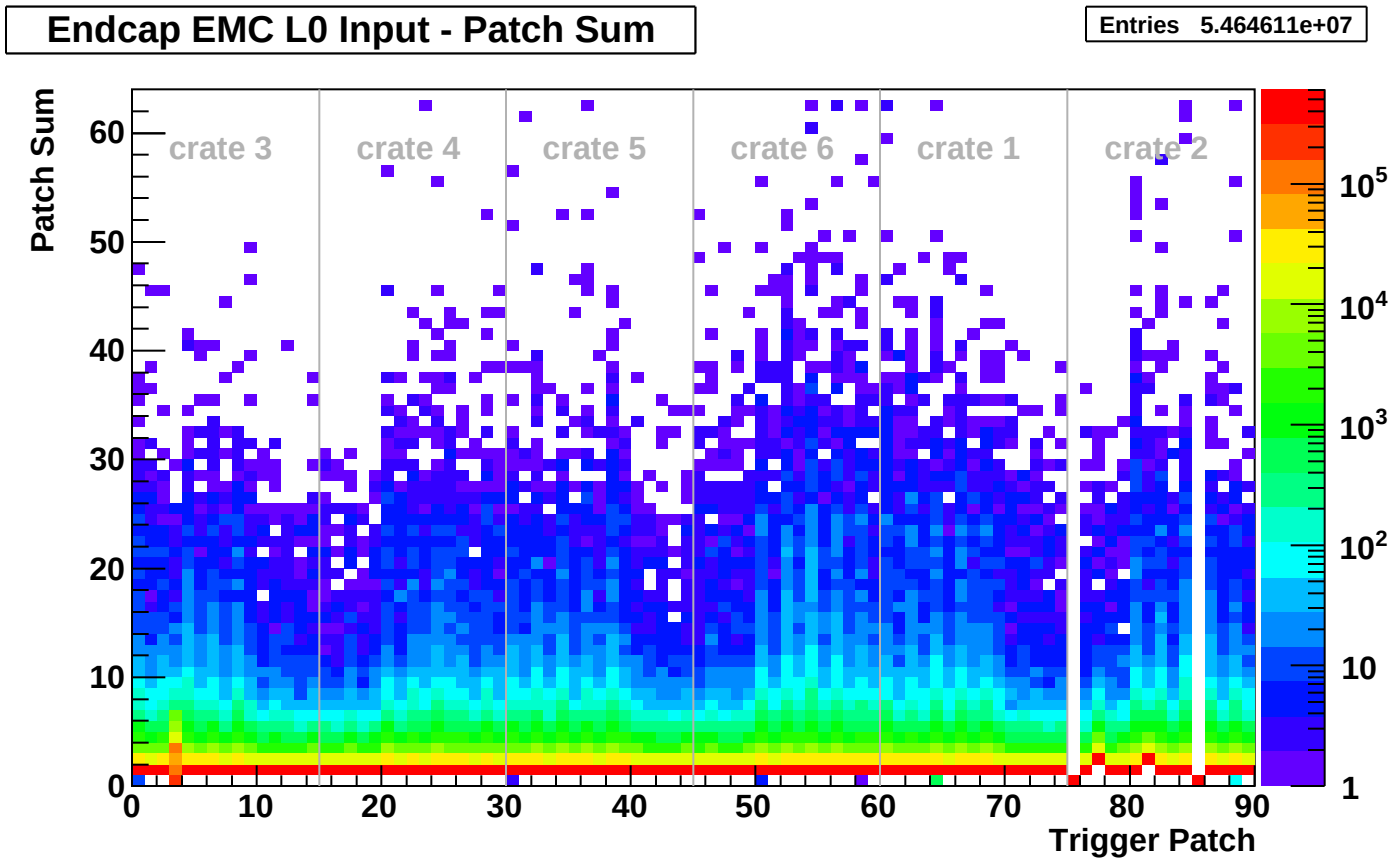
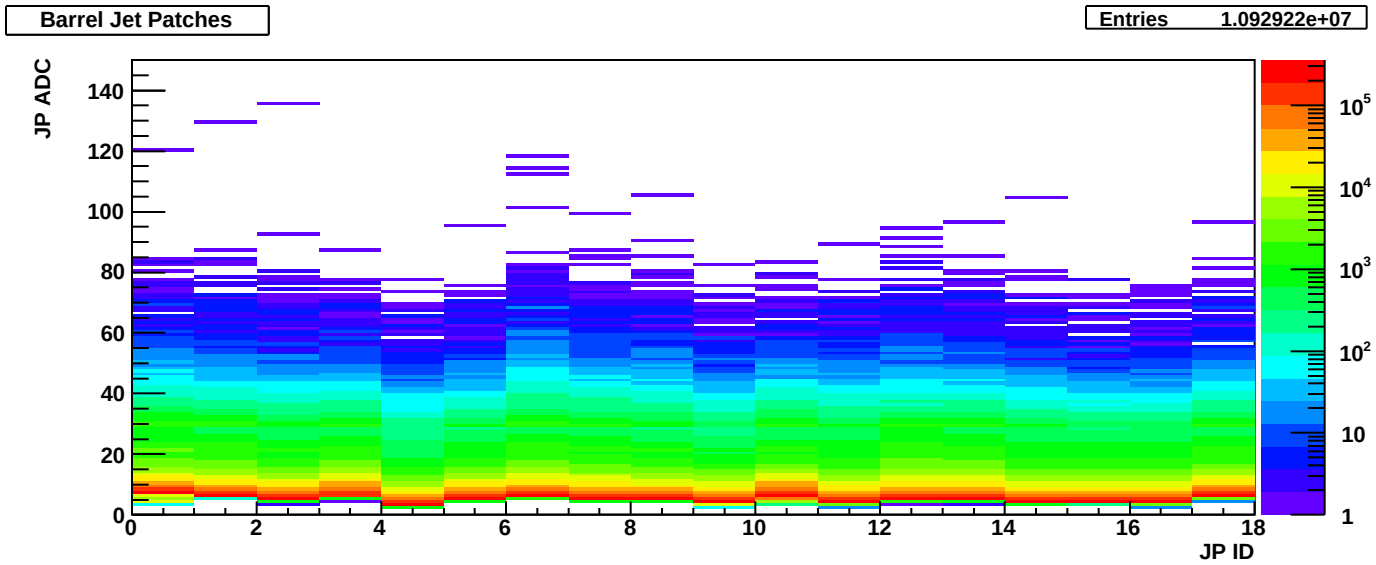
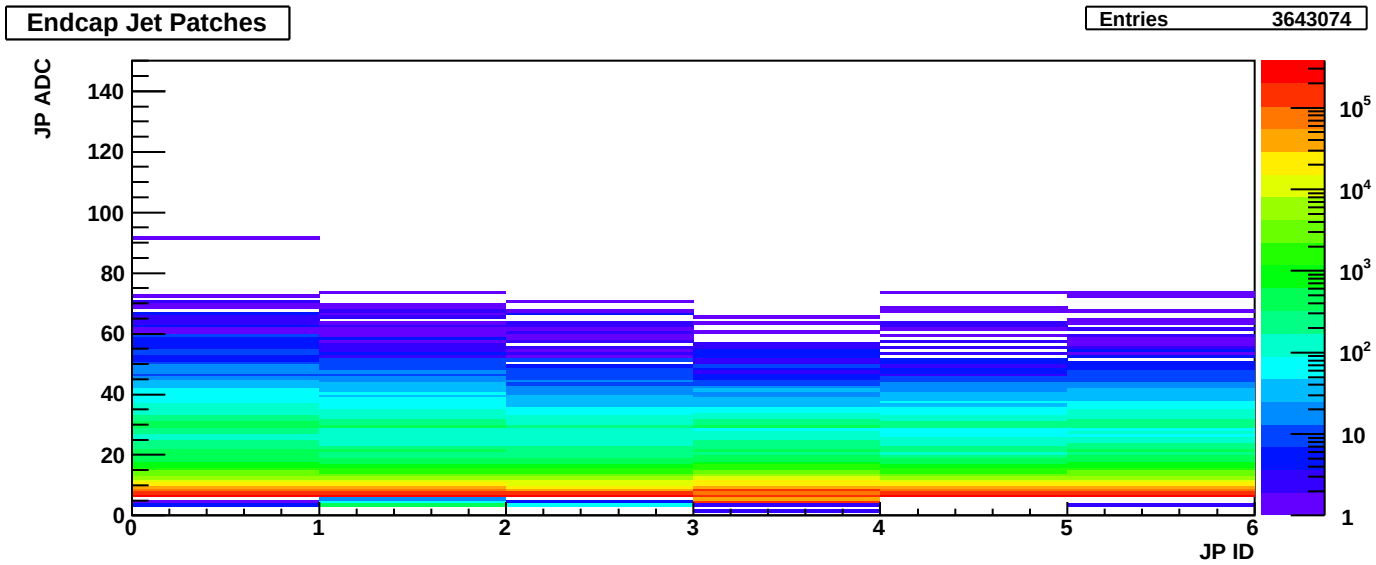

Barrel EMC L0 Input - High Tower
Entries 1.821537e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

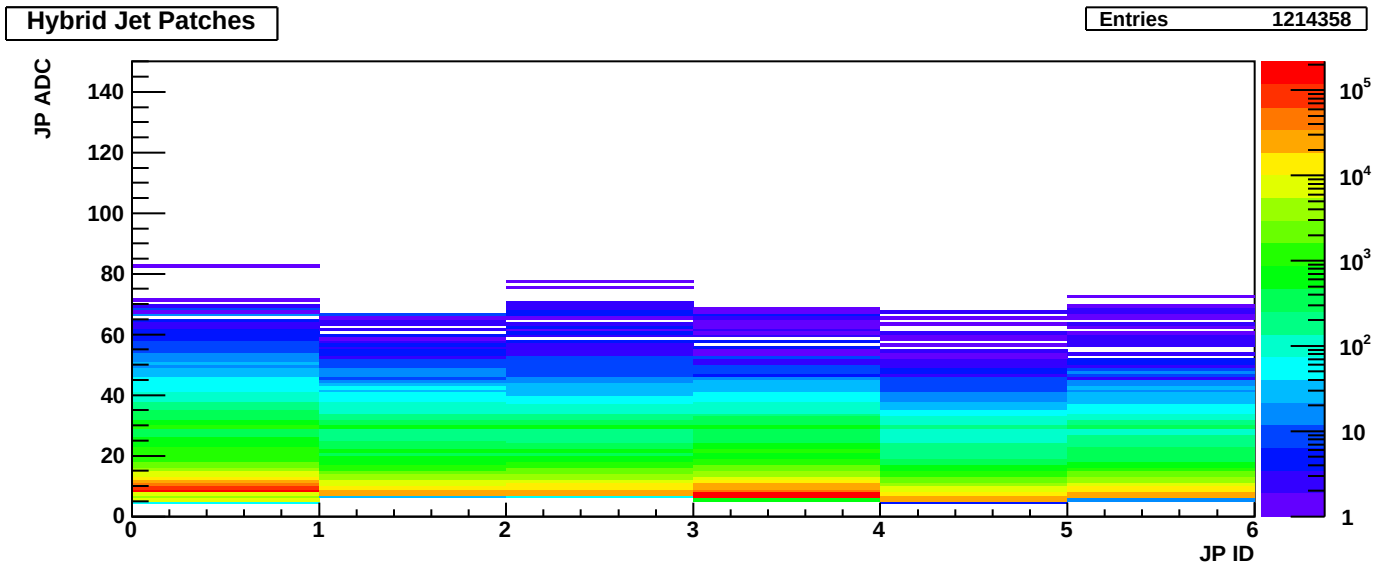

Barrel EMC L0 Input - Patch Sum
Entries 1.821537e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

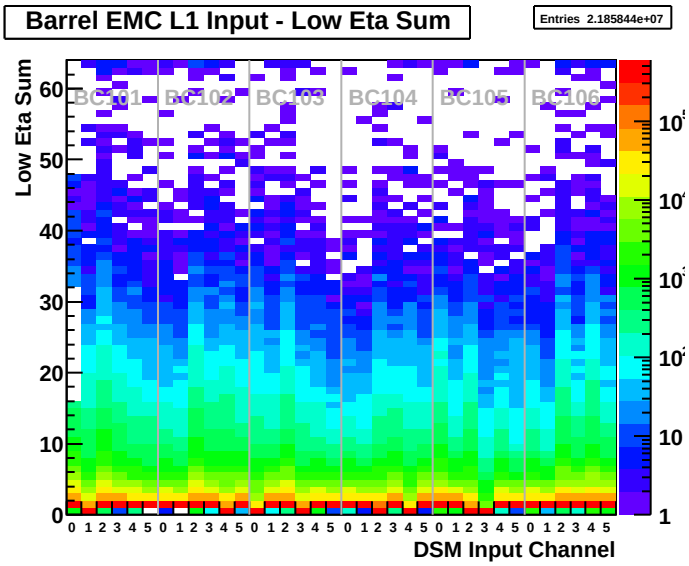

Endcap EMC L0 Input - High Tower
Entries 5.464611e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

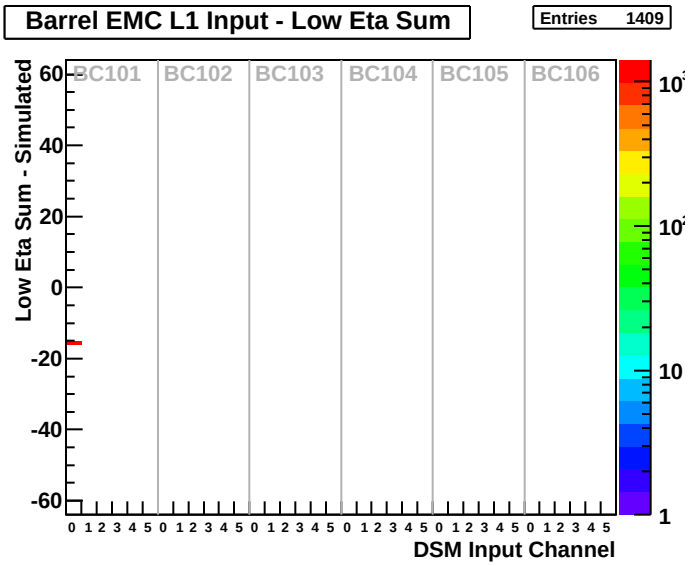

Endcap EMC L0 Input - Patch Sum
Entries 5.464611e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

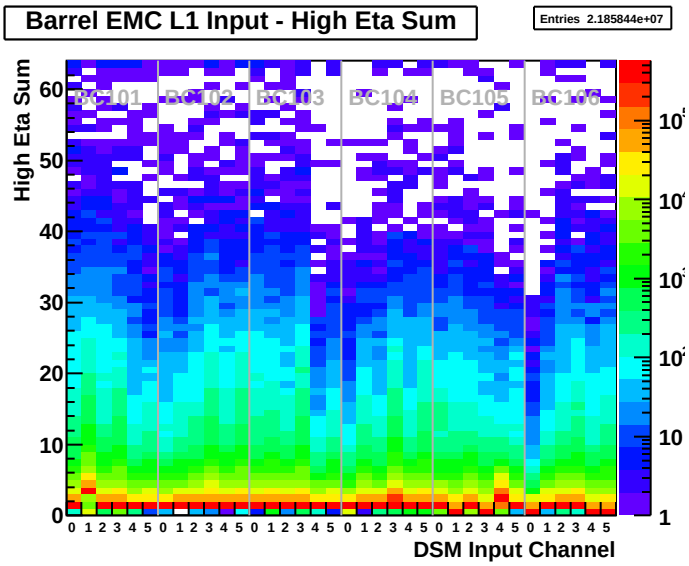

Barrel Jet Patches
Entries 1.092922e+07
JP ADC
JP ID

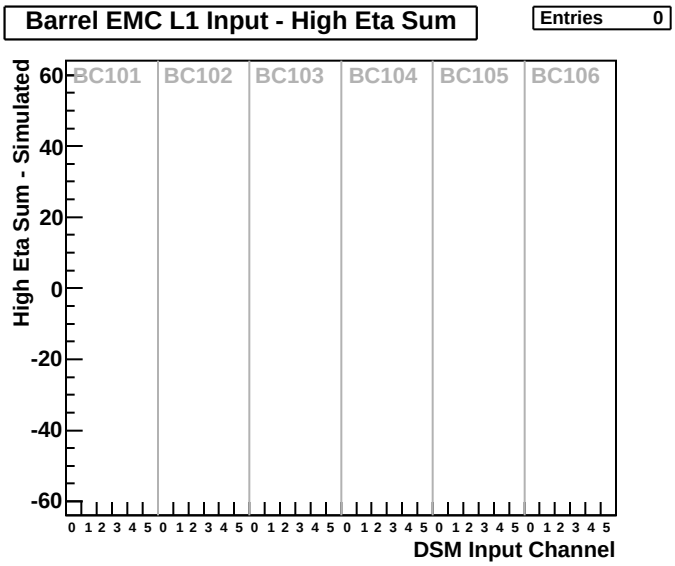

Endcap Jet Patches
Entries 3643074
JP ADC
JP ID

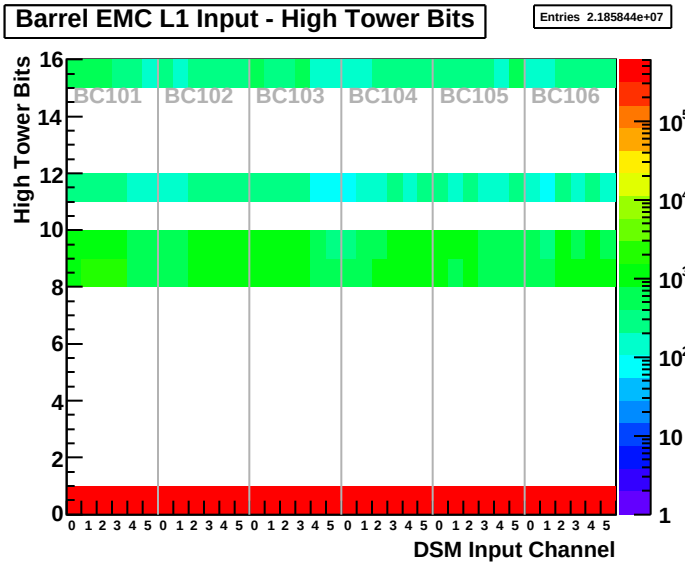

Hybrid Jet Patches
Entries 1214358
JP ADC
JP ID

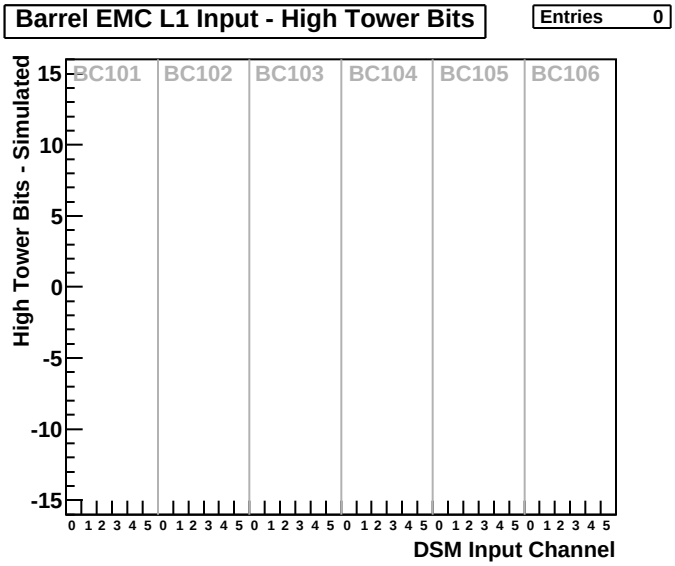

Barrel EMC L1 Input - Low Eta Sum
Entries 2.185844e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

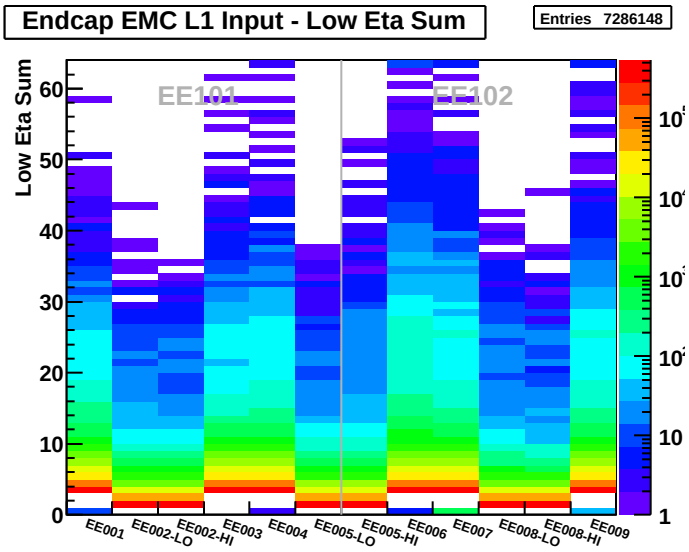

Barrel EMC L1 Input - Low Eta Sum
Entries 1409
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

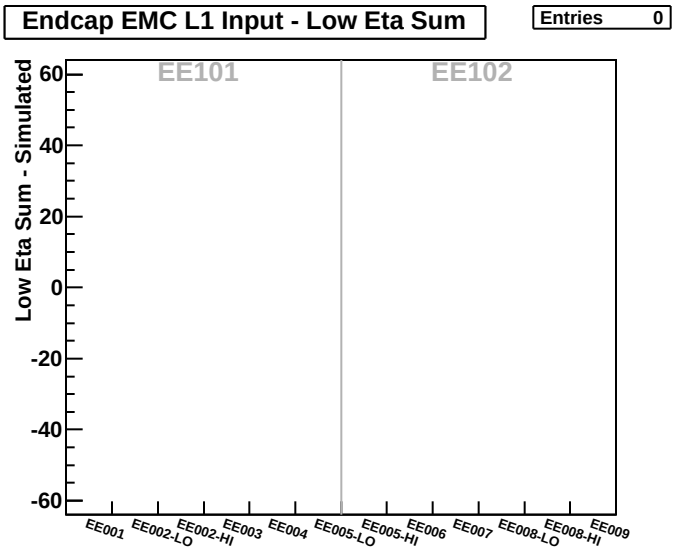

Barrel EMC L1 Input - High Eta Sum
Entries 2.185844e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

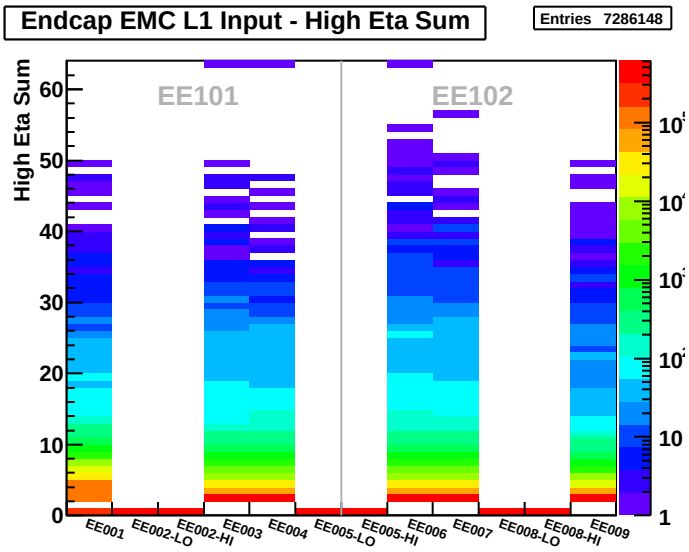

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

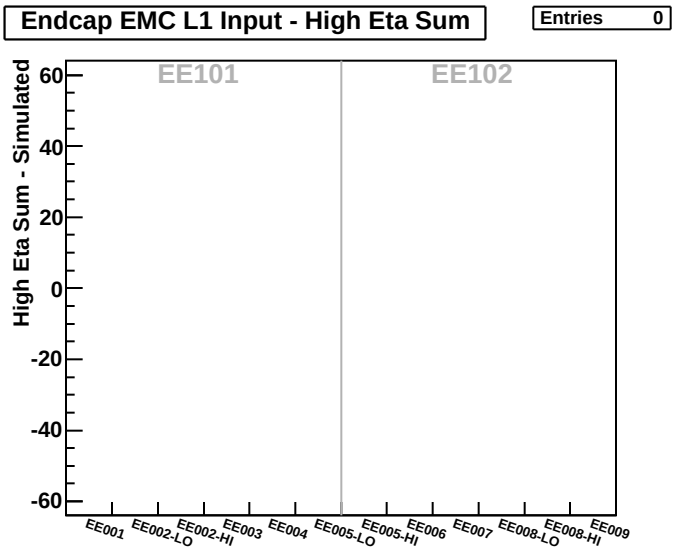

Barrel EMC L1 Input - High Tower Bits
Entries 2.185844e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

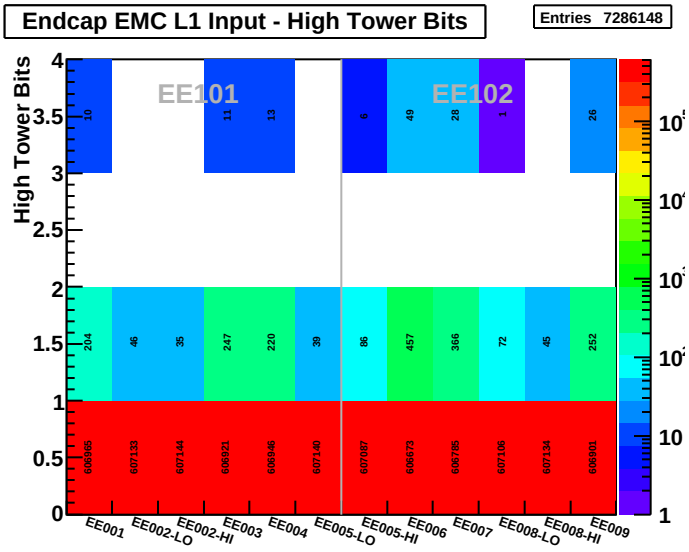

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

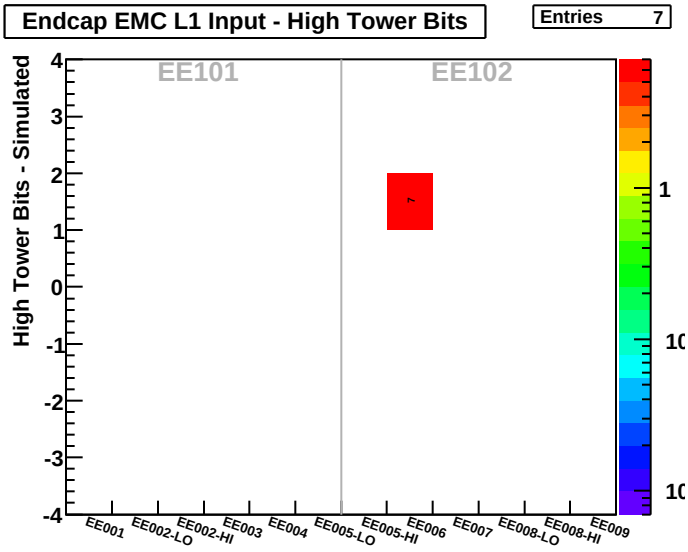

Endcap EMC L1 Input - Low Eta Sum
Entries 7286148
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

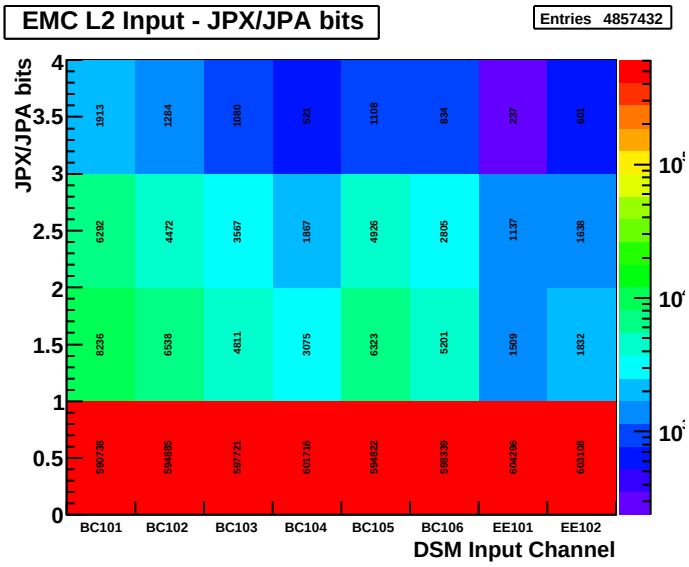

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

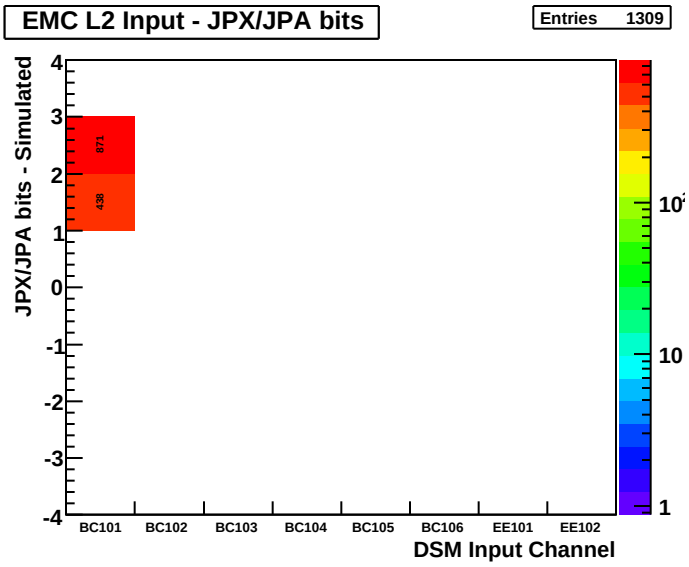

Endcap EMC L1 Input - High Eta Sum
Entries 7286148
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

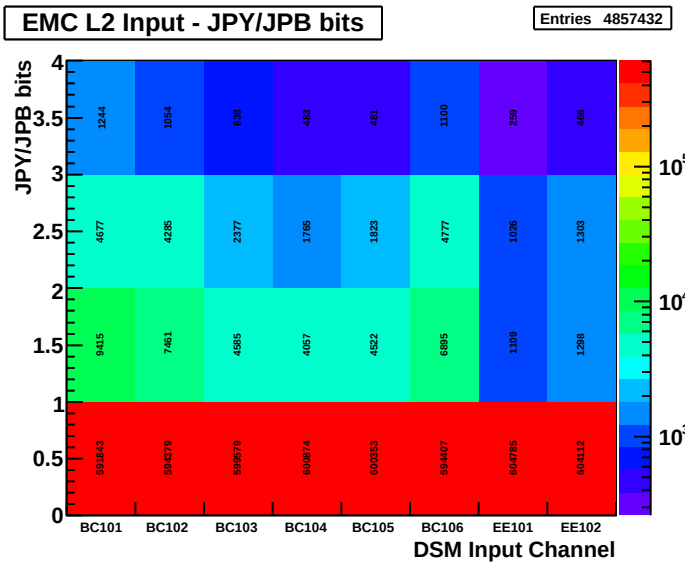

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

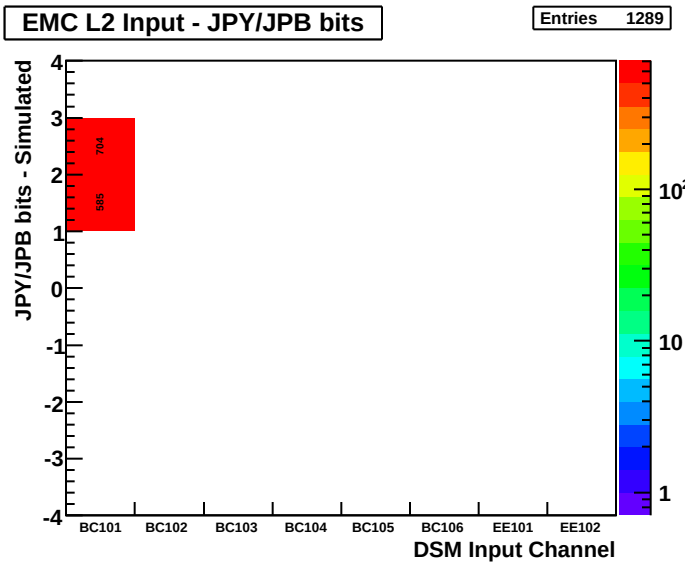

Endcap EMC L1 Input - High Tower Bits
Entries 7286148
High Tower Bits
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

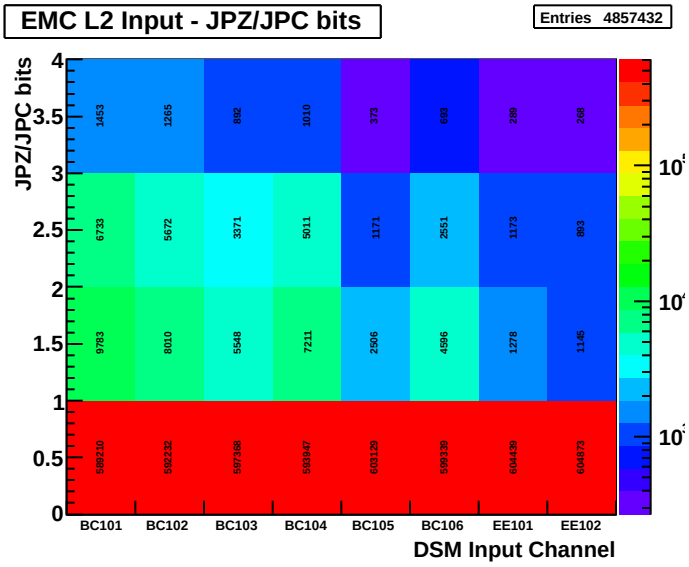

Endcap EMC L1 Input - High Tower Bits
Entries 7
High Tower Bits - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

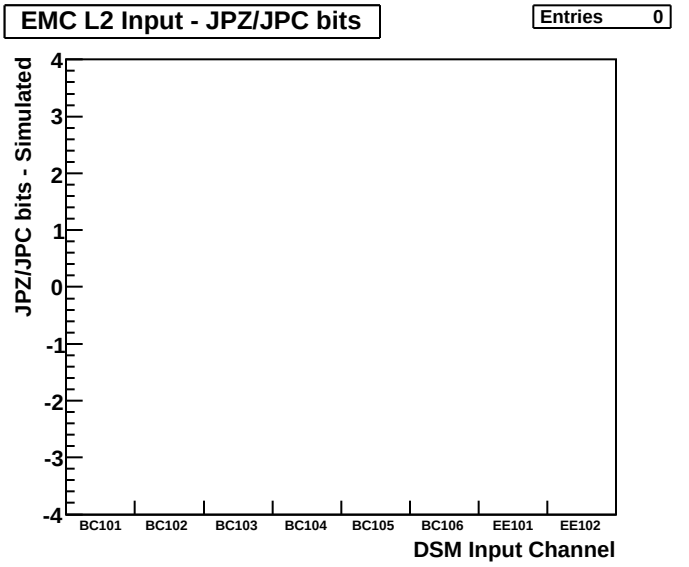

EMC L2 Input - JPX/JPA bits
Entries 4857432
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1913 1284 1080 521 1108 834 237 601
6292 4472 3567 1867 4926 2805 1137 1638
8236 6538 4811 3075 6323 5201 1509 1832
590738 594885 597721 601716 594822 598339 604296 603108

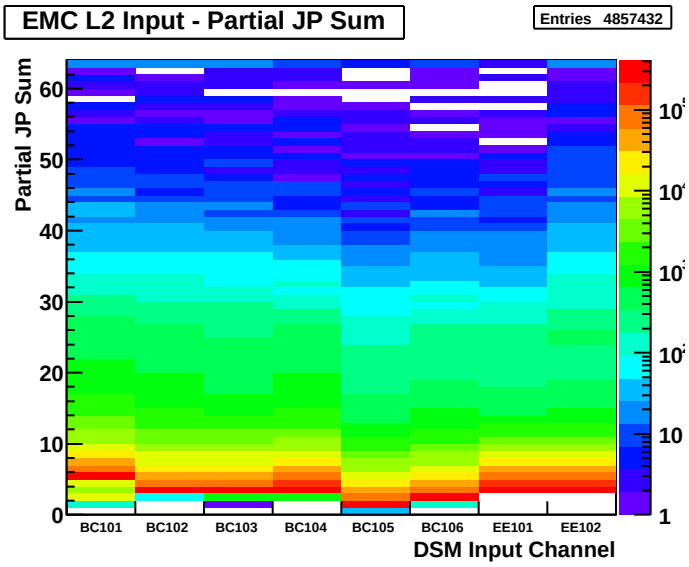

EMC L2 Input - JPX/JPA bits
Entries 1309
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
871
438

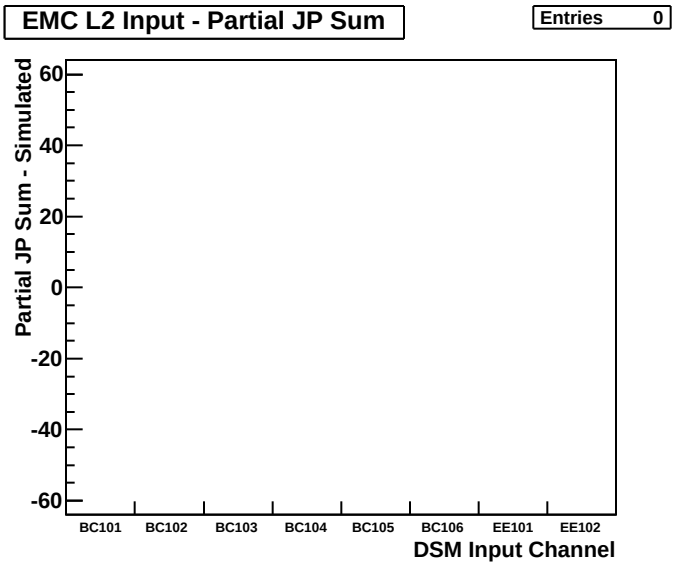

EMC L2 Input - JPY/JPB bits
Entries 4857432
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1244 1054 638 483 481 1100 259 466
4677 4285 2377 1765 1823 4777 1035 1303
9415 7461 4595 4057 4522 6895 1109 1298
593843 594379 595579 600874 600353 594407 604785 604112

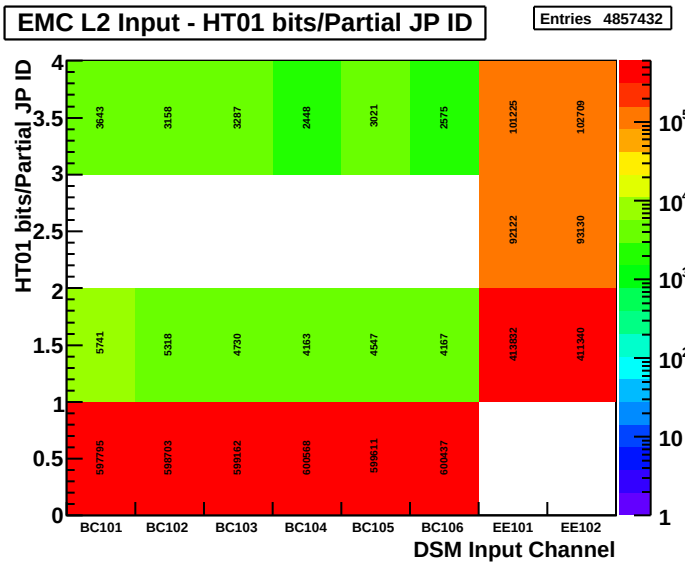

EMC L2 Input - JPY/JPB bits
Entries 1289
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
704
585

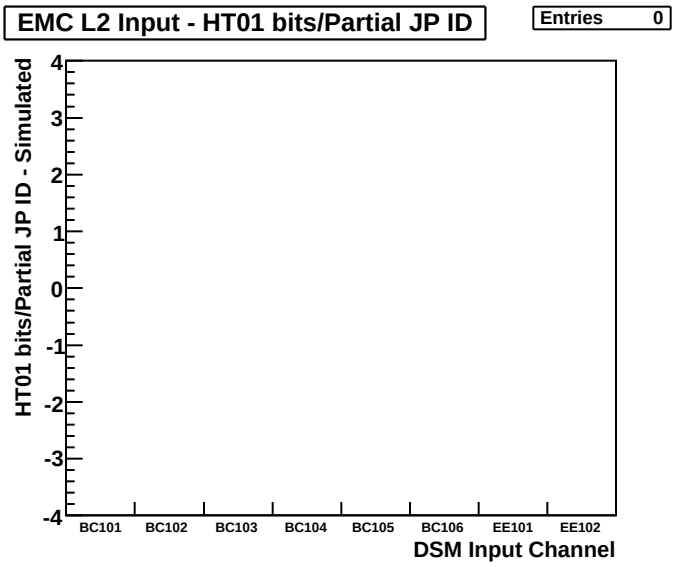

EMC L2 Input - JPZ/JPC bits
Entries 4857432
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1453 1265 892 1010 373 693 289 268
6733 5672 3371 5011 1171 2551 1173 893
9783 8010 5548 7211 2506 4596 1278 1145
589210 592232 597368 593947 603129 599339 604439 604873

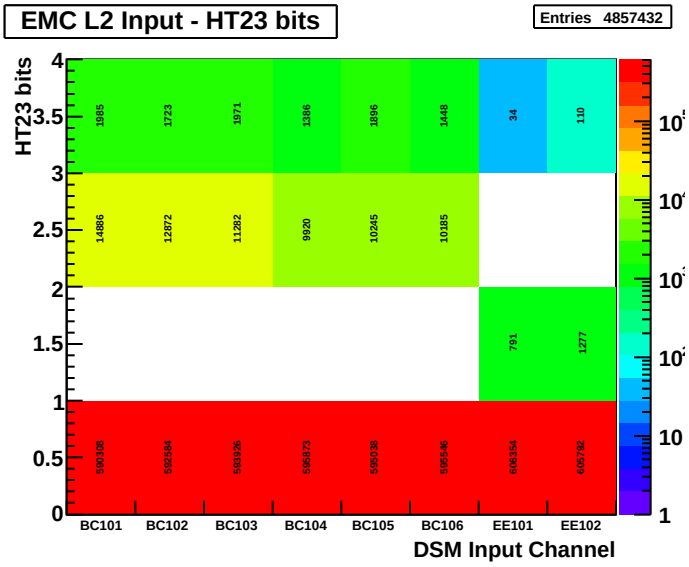

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

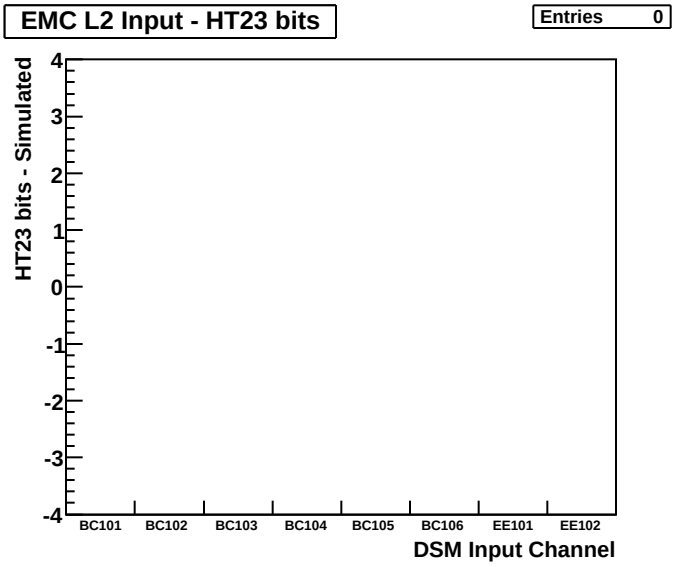

EMC L2 Input - Partial JP Sum
Entries 4857432
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

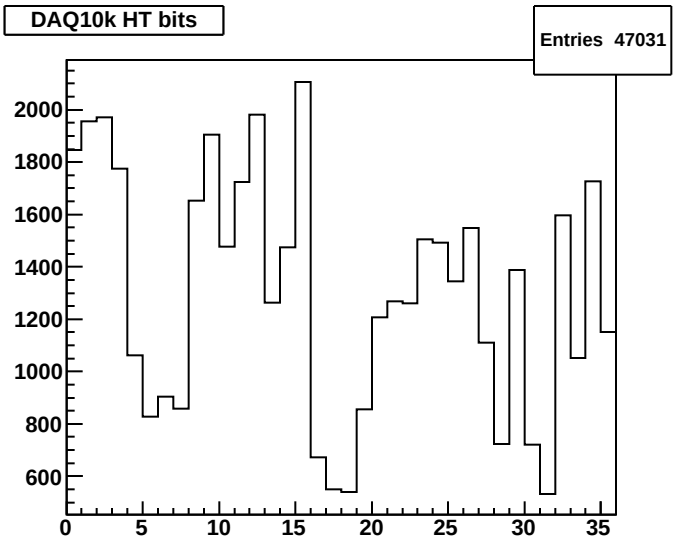

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

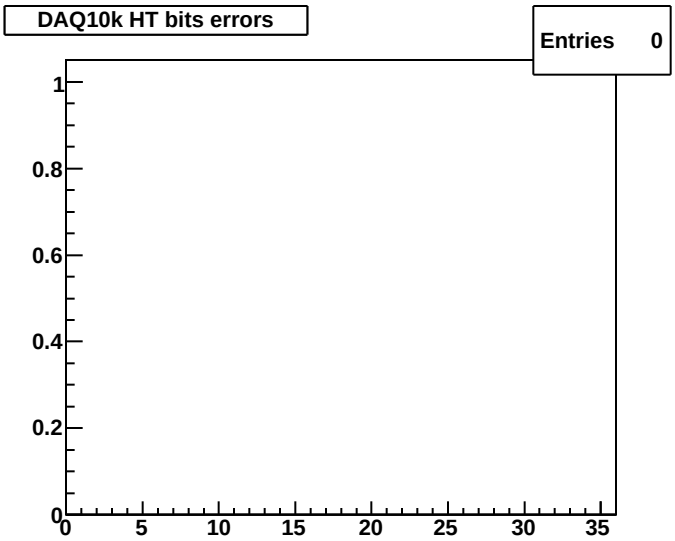

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4857432
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

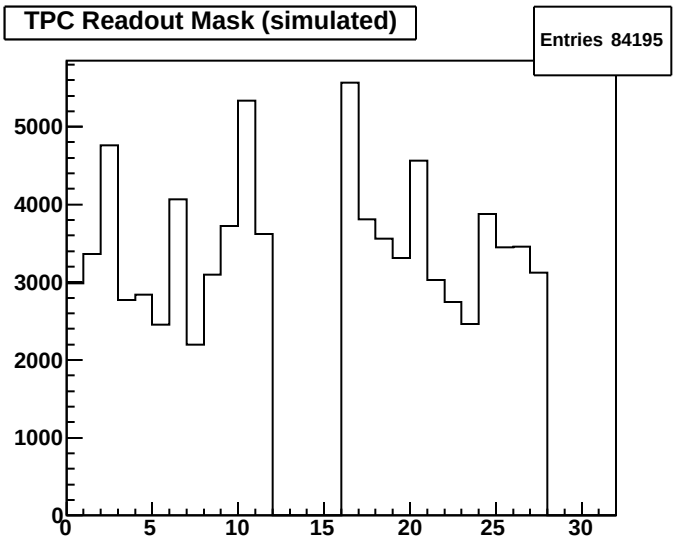

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

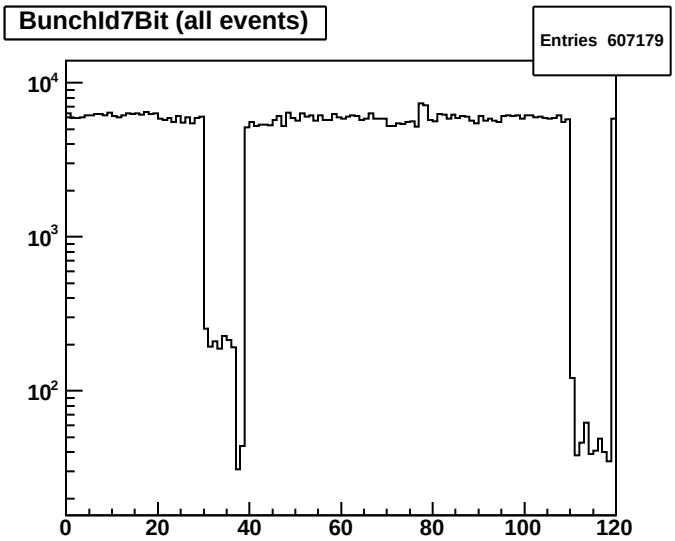

EMC L2 Input - HT23 bits
Entries 4857432
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

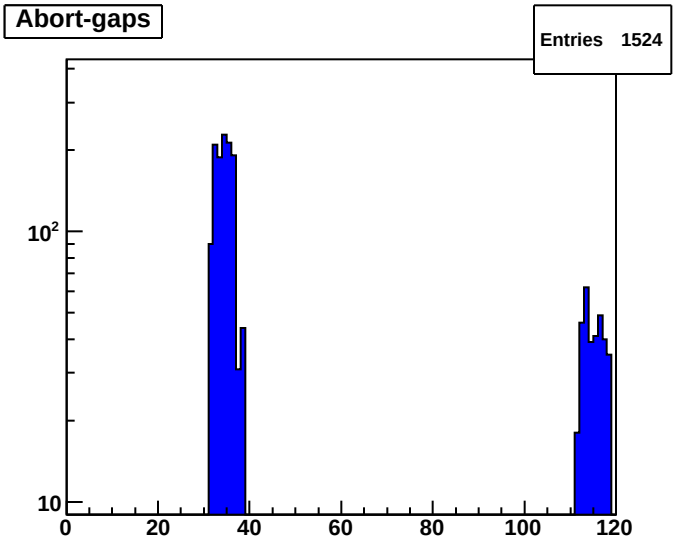

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

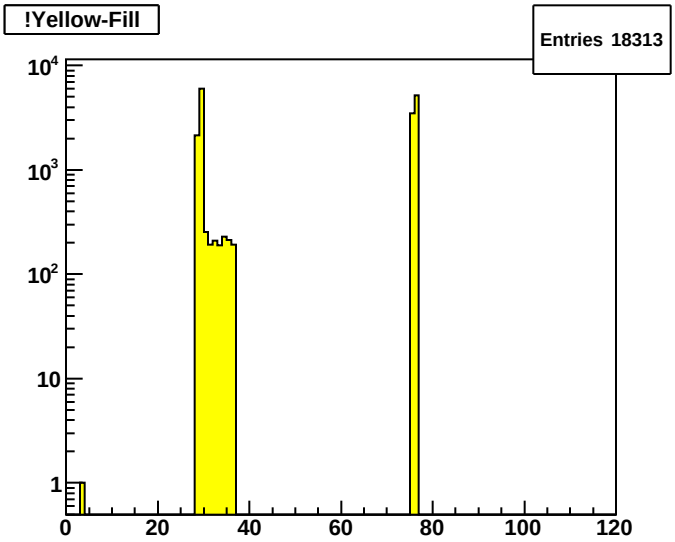

DAQ10k HT bits
Entries 47031

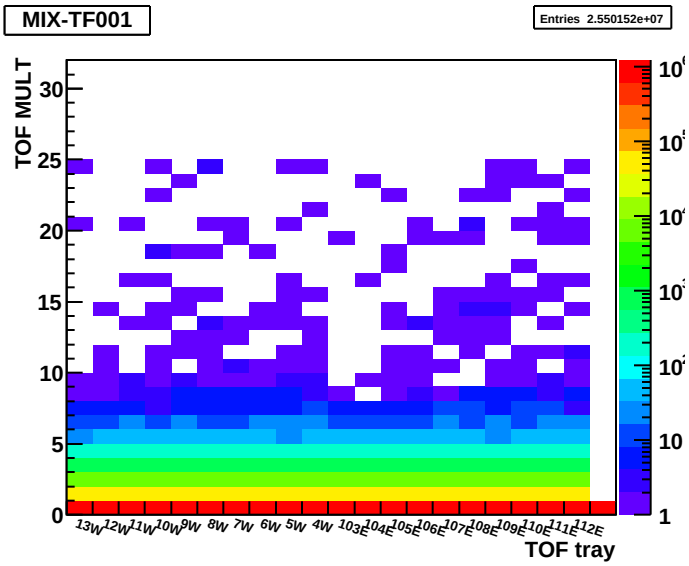

DAQ10k HT bits errors
Entries 0

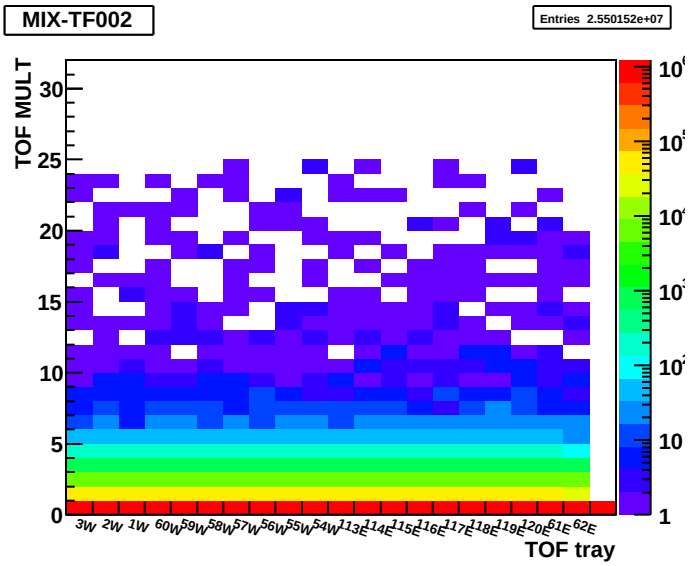

TPC Readout Mask (simulated)
Entries 84195

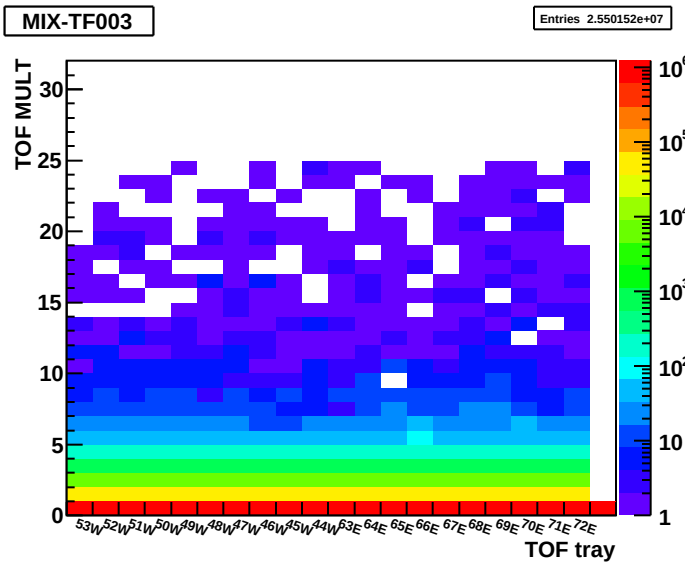

BunchId7Bit (all events)
Entries 607179

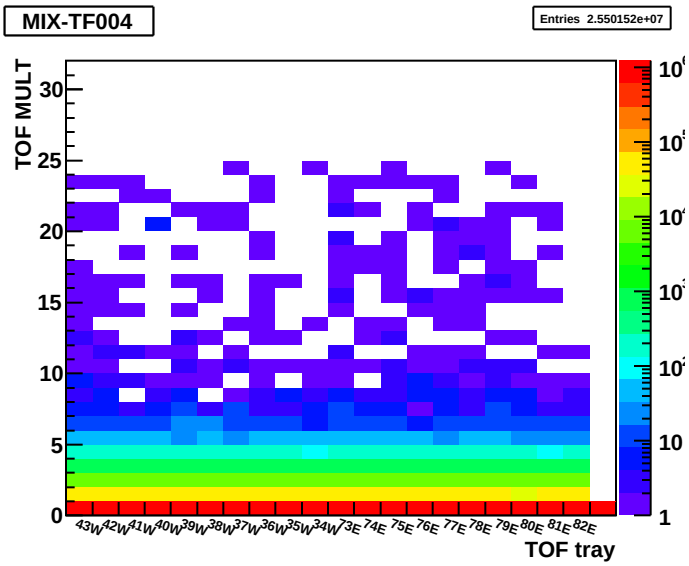

Abort-gaps
Entries 1524

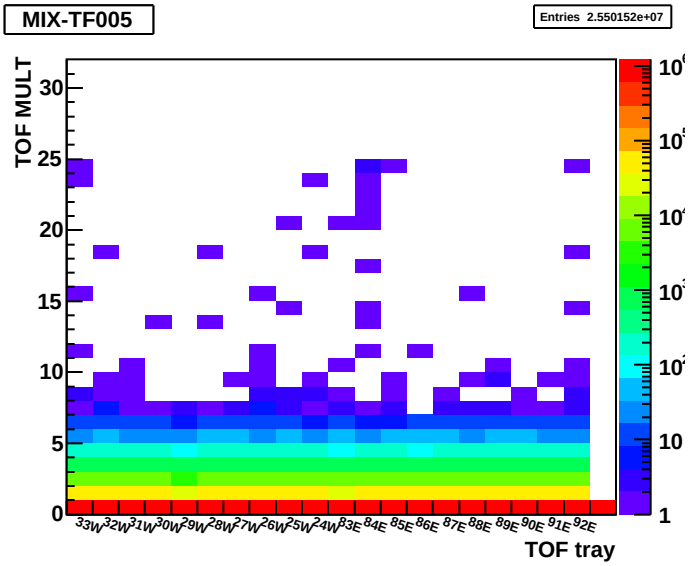

!Yellow-Fill
Entries 18313

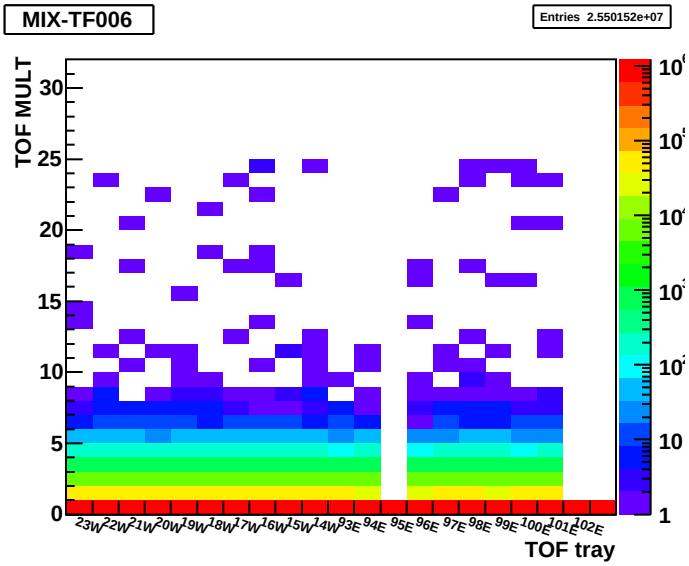

MIX-TF001
Entries 2.550152e+07
TOF MULT
TOF tray

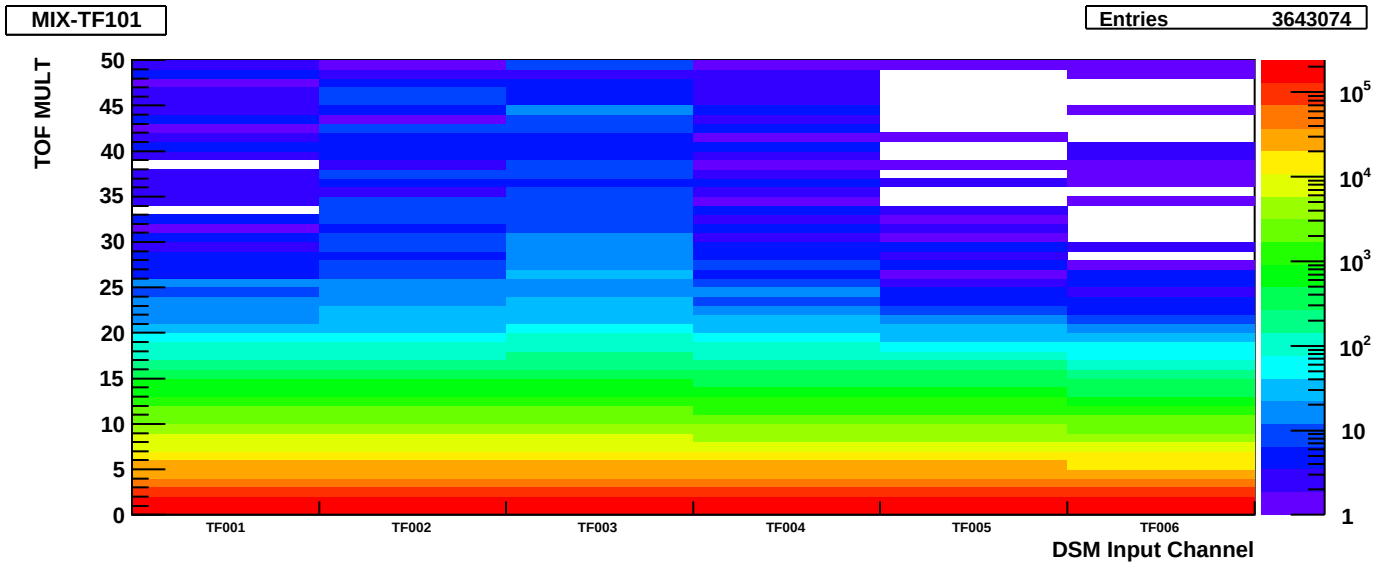

MIX-TF002
Entries 2.550152e+07
TOF MULT
TOF tray

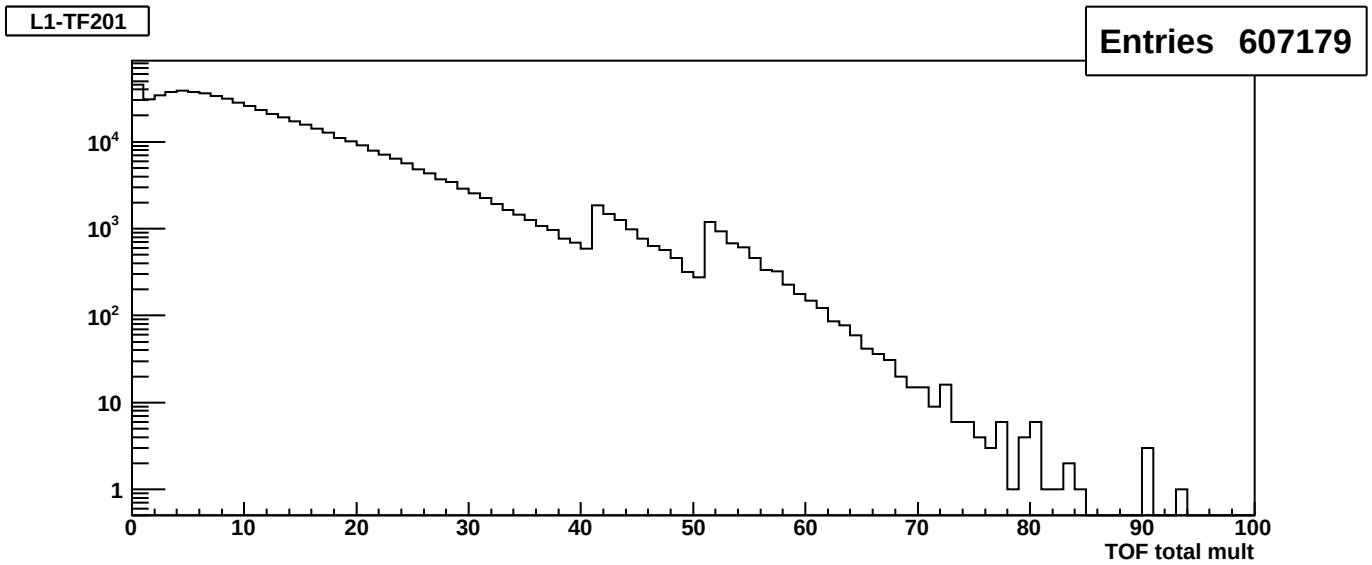

MIX-TF003
Entries 2.550152e+07
TOF MULT
TOF tray

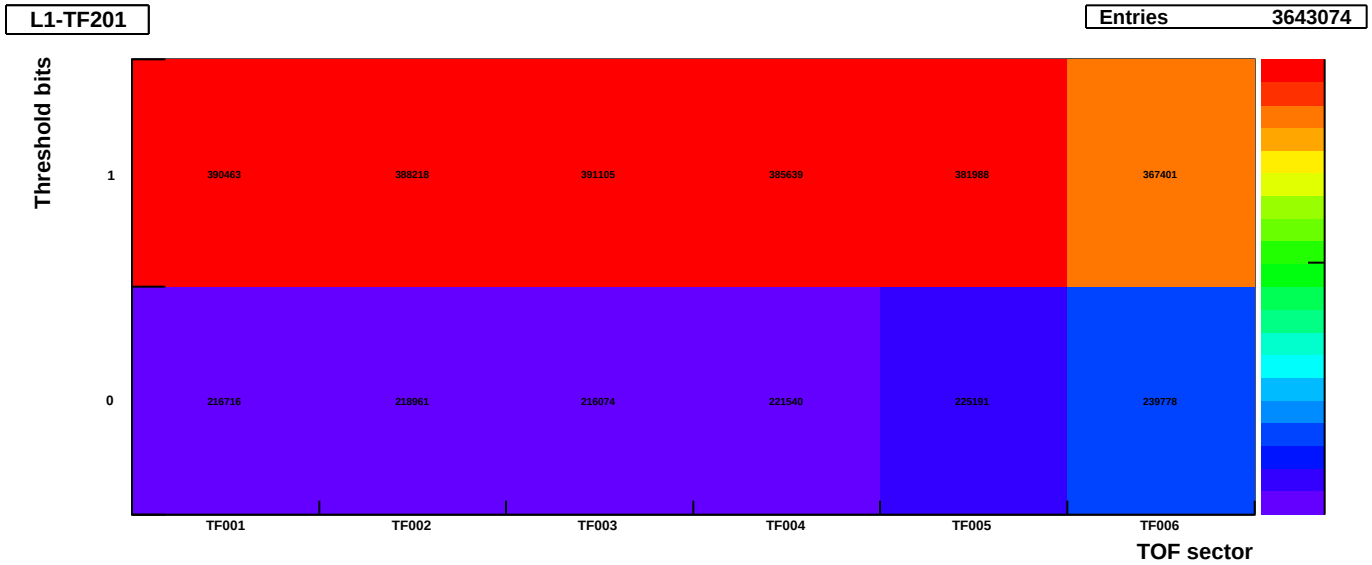

MIX-TF004
Entries 2.550152e+07
TOF MULT
TOF tray

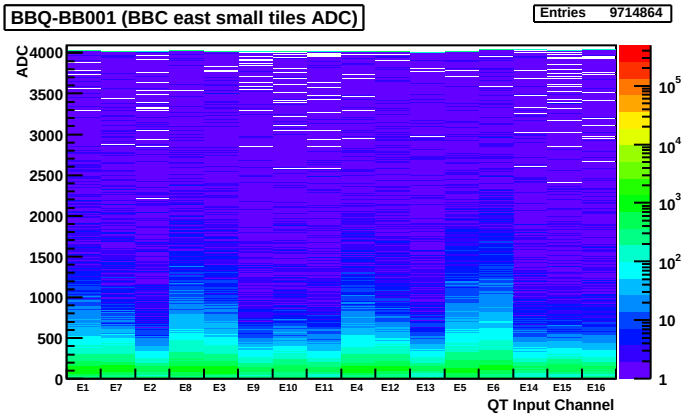

MIX-TF005
Entries 2.550152e+07
TOF MULT
TOF tray

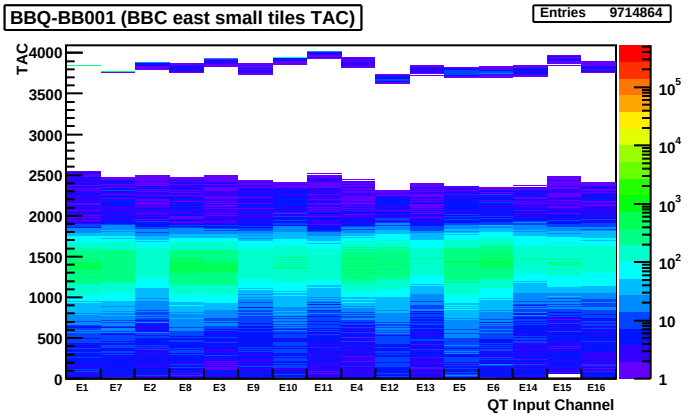

MIX-TF006
Entries 2.550152e+07
TOF MULT
TOF tray

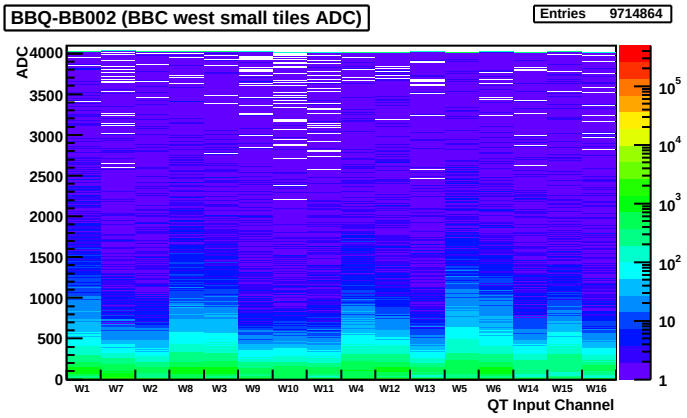

MIX-TF101
Entries 3643074
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

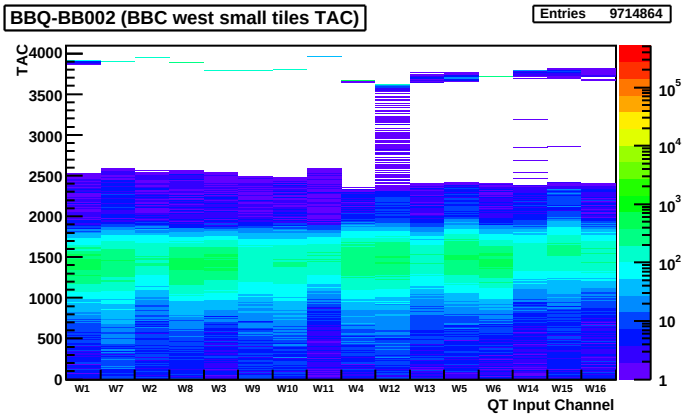

L1-TF201
Entries 607179
TOF total mult

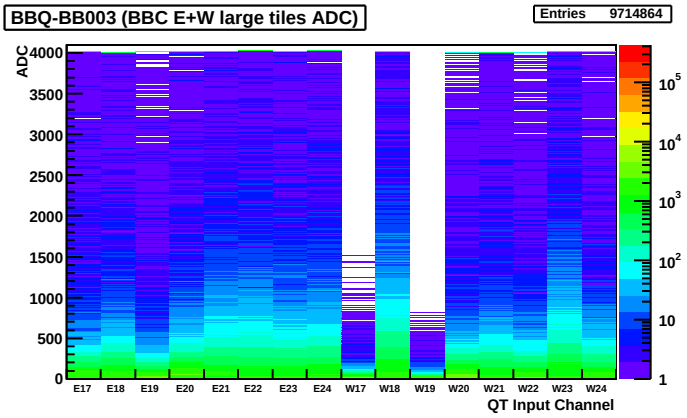

L1-TF201
Entries 3643074
Threshold bits
390463
388218
391105
385639
381988
367401
216716
218961
216074
221540
225191
239778
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

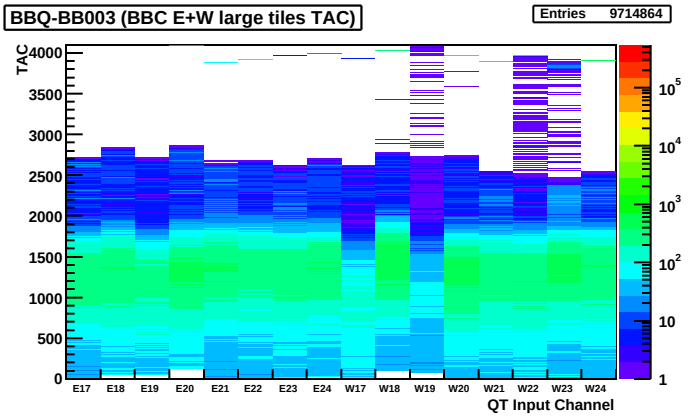

BBQ-BB001 (BBC east small tiles ADC)
Entries 9714864
ADC
QT Input Channel

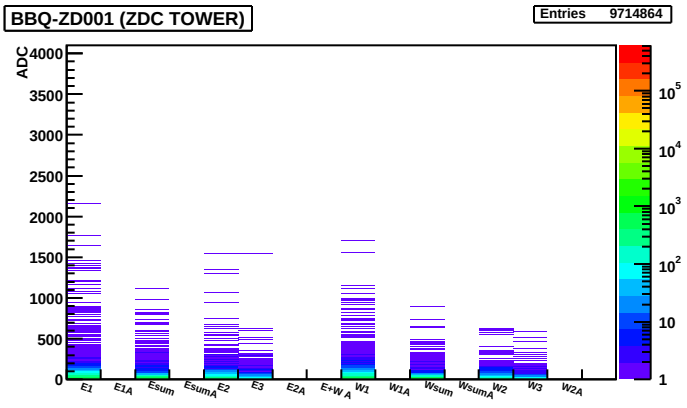

BBQ-BB001 (BBC east small tiles TAC)
Entries 9714864
TAC
QT Input Channel

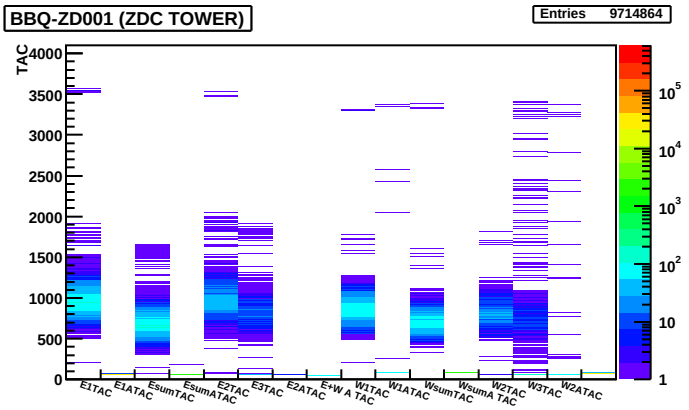

BBQ-BB002 (BBC west small tiles ADC)
Entries 9714864
ADC
QT Input Channel

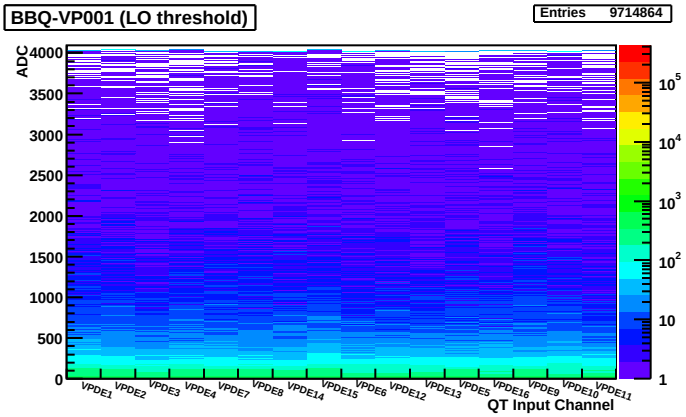

BBQ-BB002 (BBC west small tiles TAC)
Entries 9714864
TAC
QT Input Channel

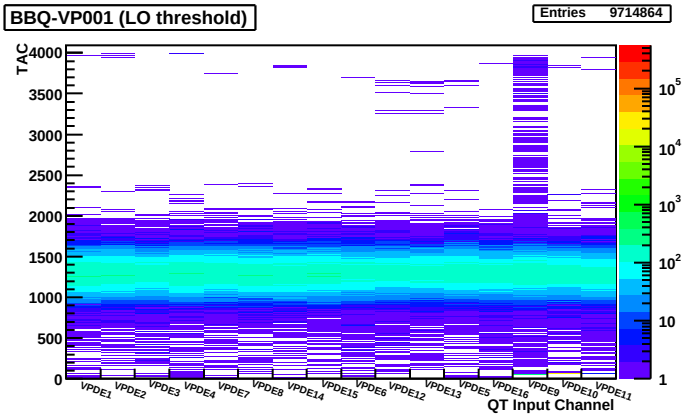

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9714864
ADC
QT Input Channel

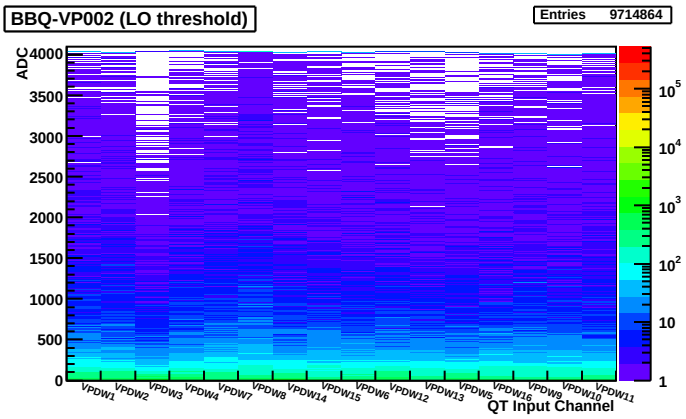

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9714864
TAC
QT Input Channel

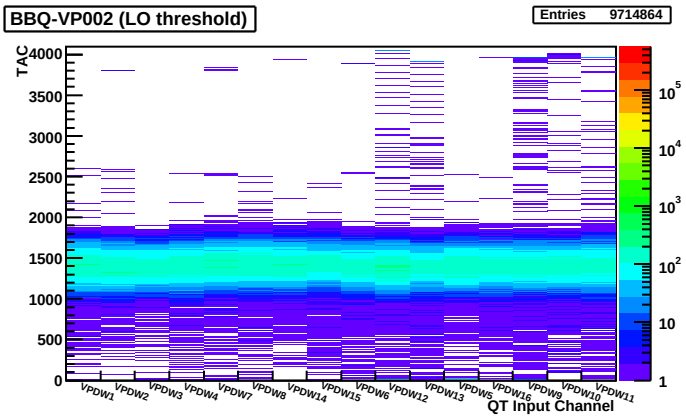

BBQ-ZD001 (ZDC TOWER)
Entries 9714864
ADC

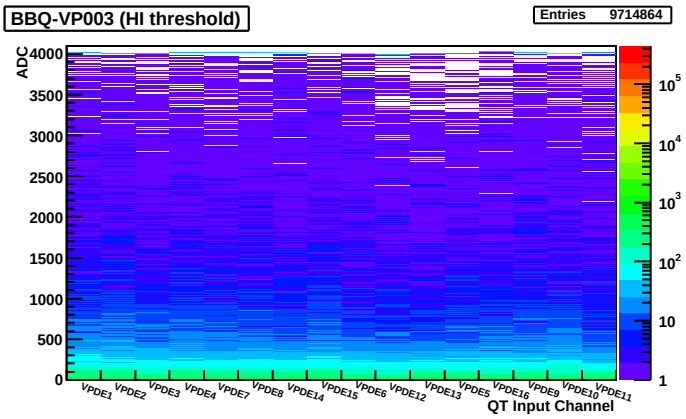

BBQ-ZD001 (ZDC TOWER)
Entries 9714864
TAC

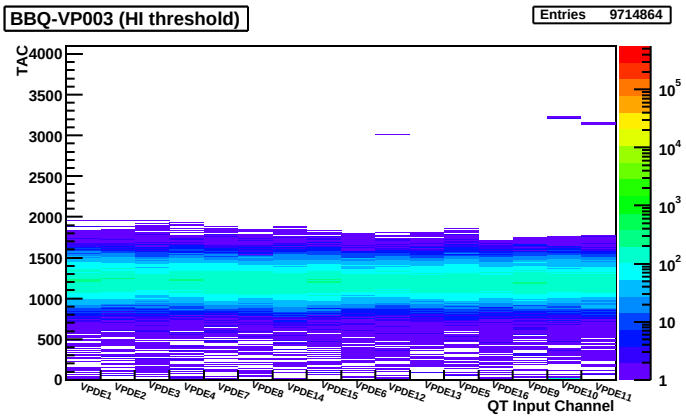

BBQ-VP001 (LO threshold)
Entries 9714864
ADC
QT Input Channel

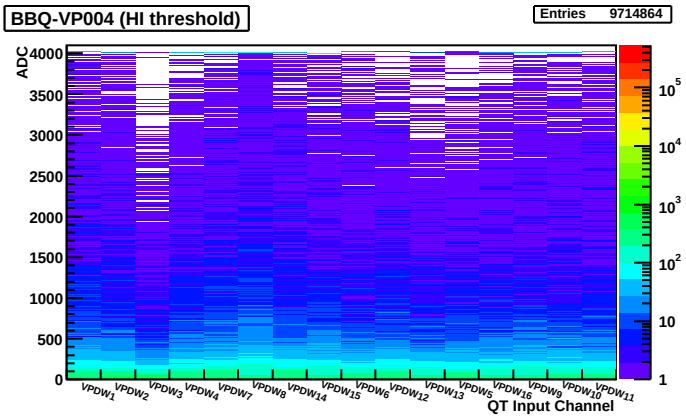

BBQ-VP001 (LO threshold)
Entries 9714864
TAC
QT Input Channel

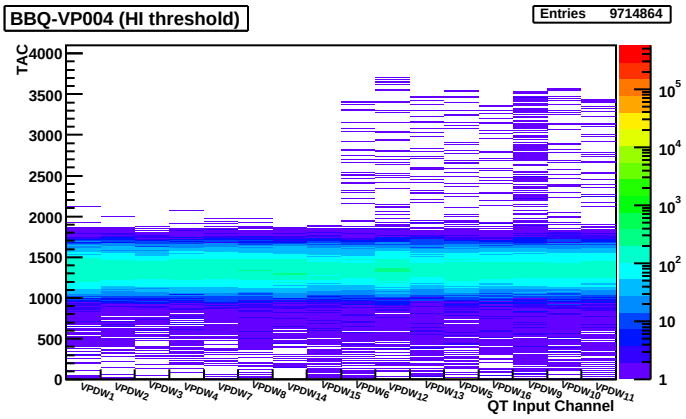

BBQ-VP002 (LO threshold)
Entries 9714864
ADC
QT Input Channel

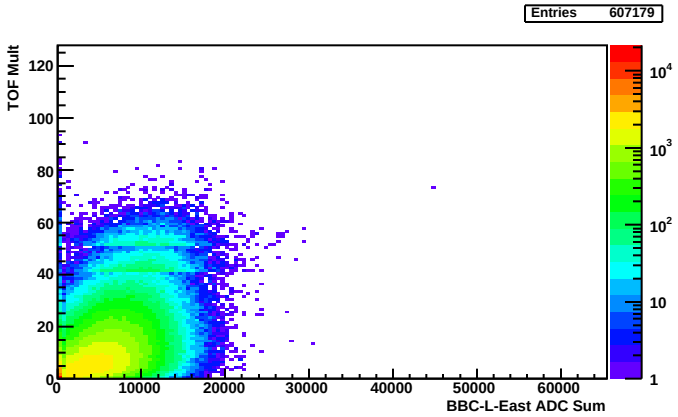

BBQ-VP002 (LO threshold)
Entries 9714864
TAC
QT Input Channel

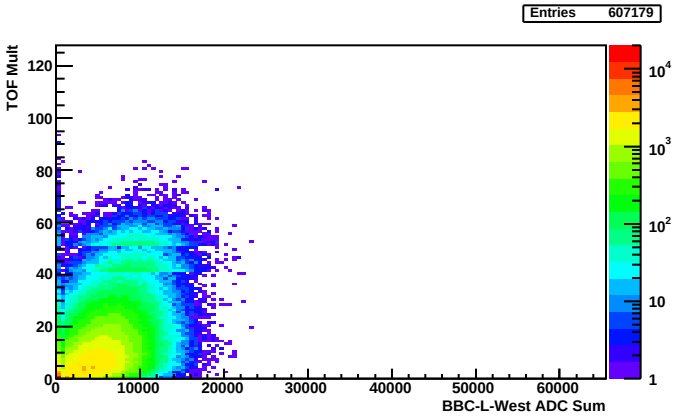

BBQ-VP003 (HI threshold)
Entries 9714864
ADC
QT Input Channel

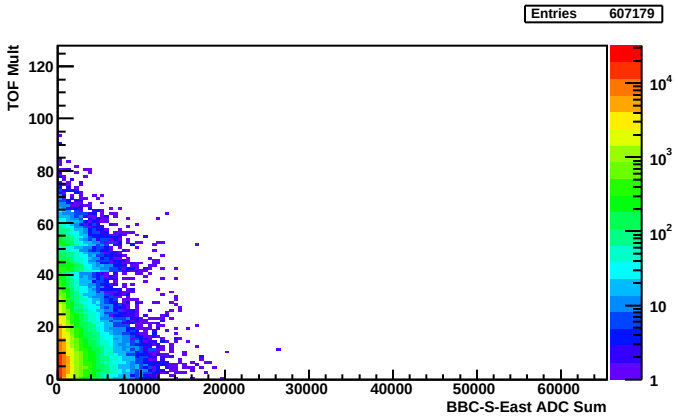

BBQ-VP003 (HI threshold)
Entries 9714864
TAC
QT Input Channel

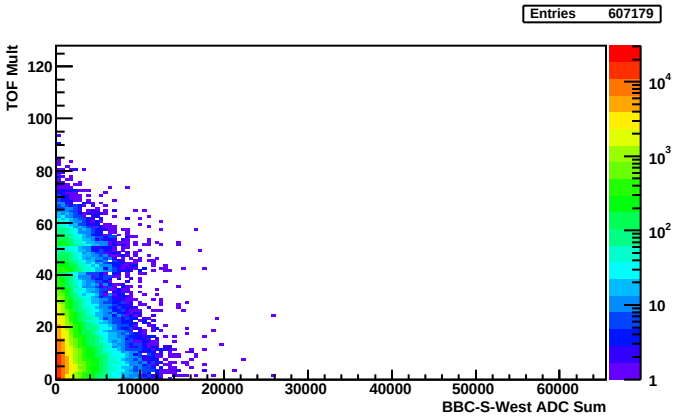

BBQ-VP004 (HI threshold)
Entries 9714864
ADC
QT Input Channel

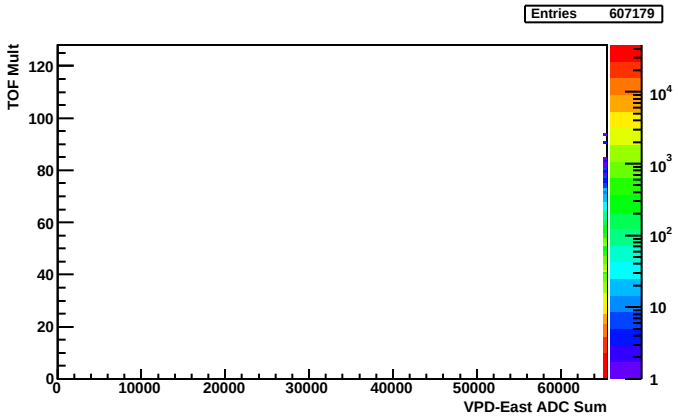

BBQ-VP004 (HI threshold)
Entries 9714864
TAC
QT Input Channel

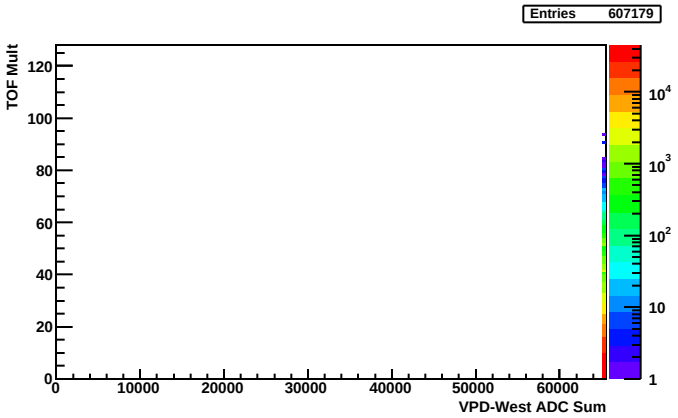

Entries 607179
TOF Mult
BBC-L-East ADC Sum

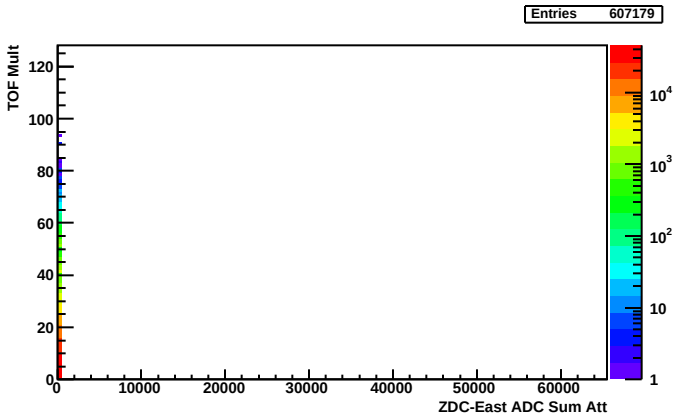

Entries 607179
TOF Mult
BBC-L-West ADC Sum

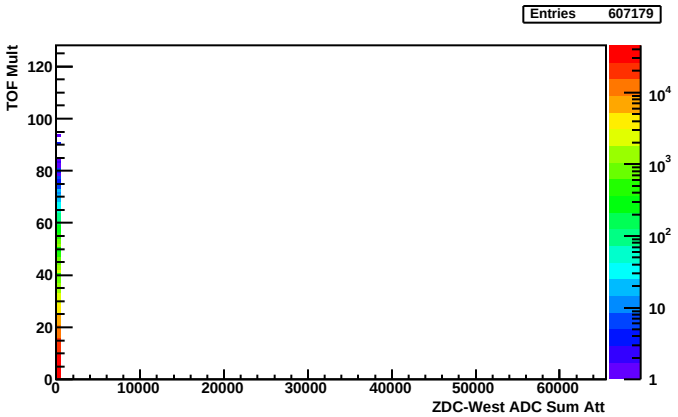

Entries 607179
TOF Mult
BBC-S-East ADC Sum

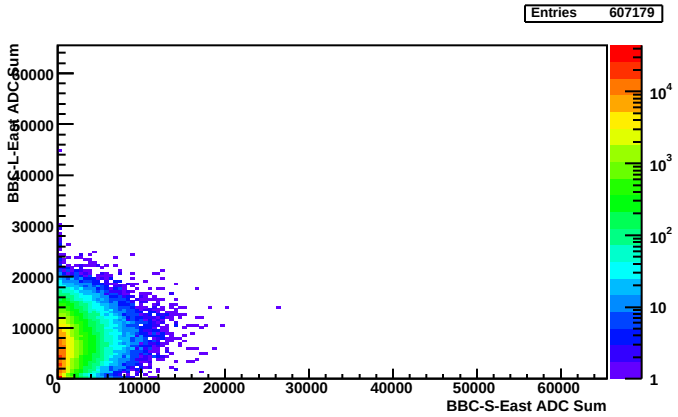

Entries 607179
TOF Mult
BBC-S-West ADC Sum

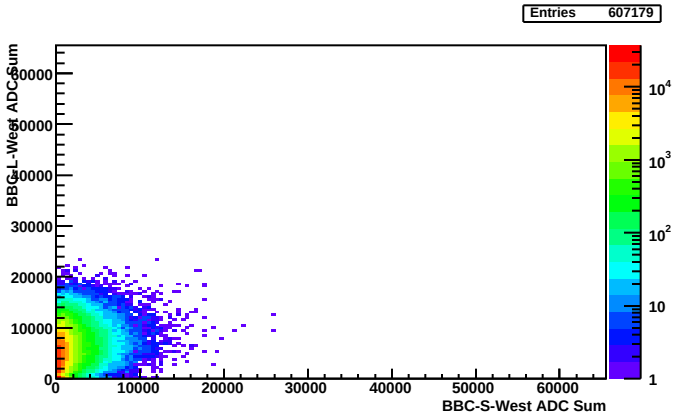

Entries 607179
TOF Mult
VPD-East ADC Sum

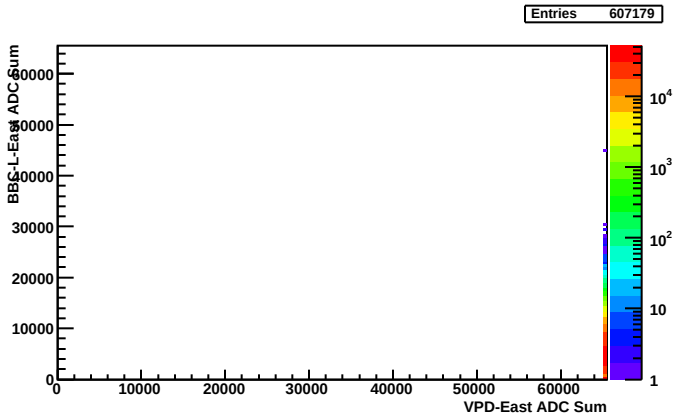

Entries 607179
TOF Mult
VPD-West ADC Sum

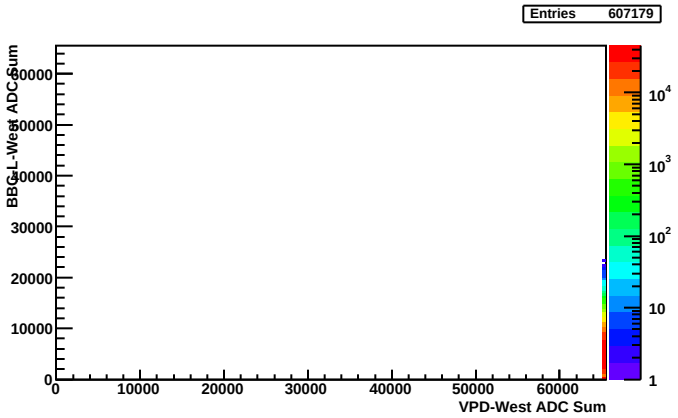

Entries 607179
TOF Mult
ZDC-East ADC Sum Att

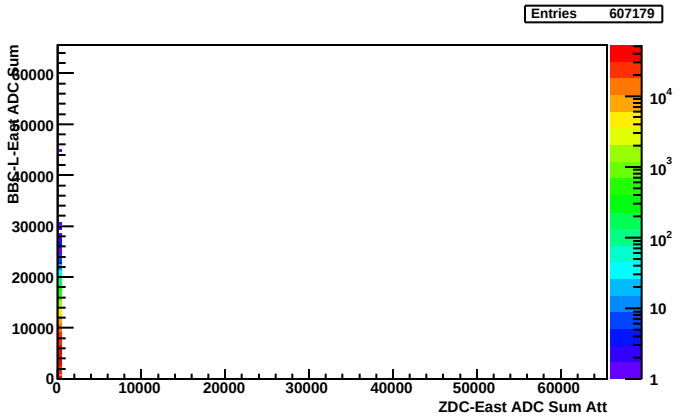

Entries 607179
TOF Mult
ZDC-West ADC Sum Att

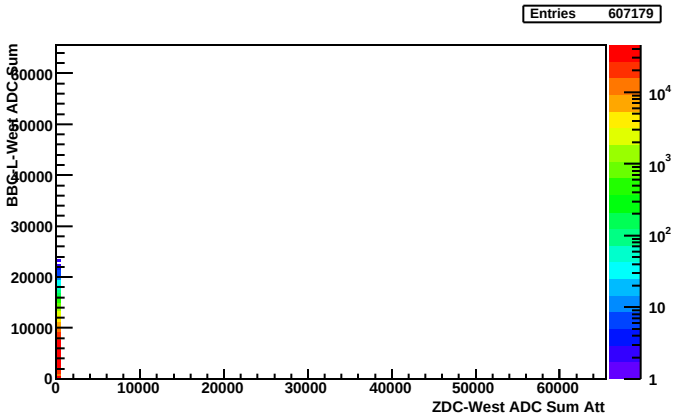

Entries 607179
BBC-L-East ADC Sum
BBC-S-East ADC Sum

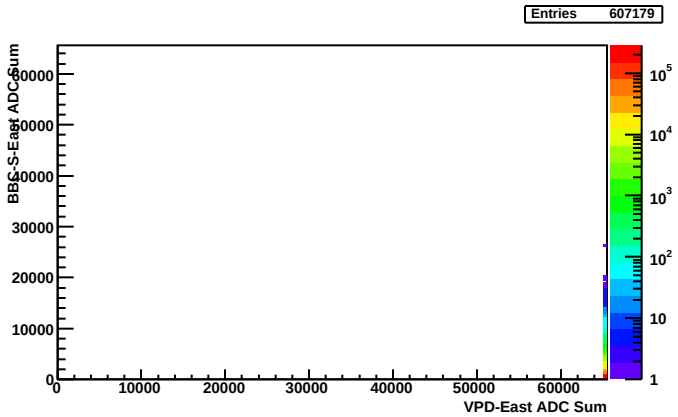

Entries 607179
BBC-L-West ADC Sum
BBC-S-West ADC Sum

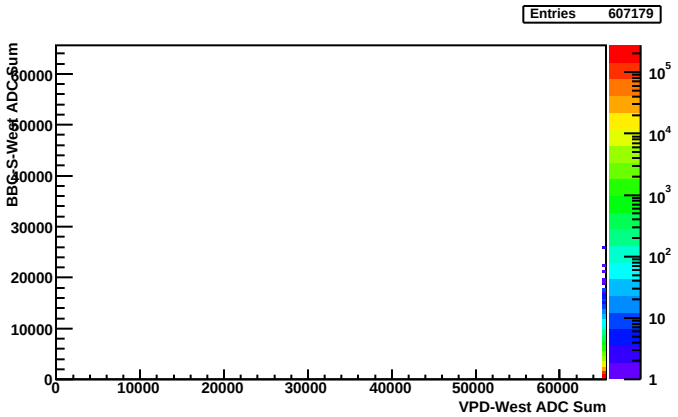

Entries 607179
BBC-L-East ADC Sum
VPD-East ADC Sum

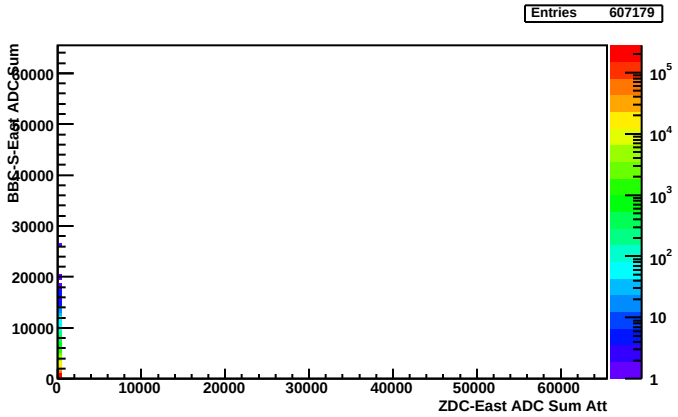

Entries 607179
BBC-L-West ADC Sum
VPD-West ADC Sum

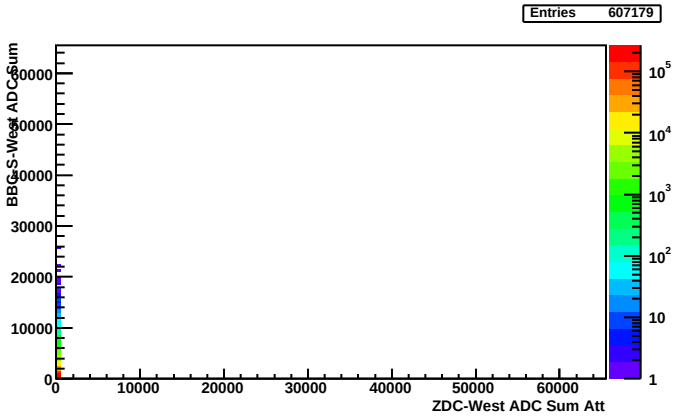

Entries 607179
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

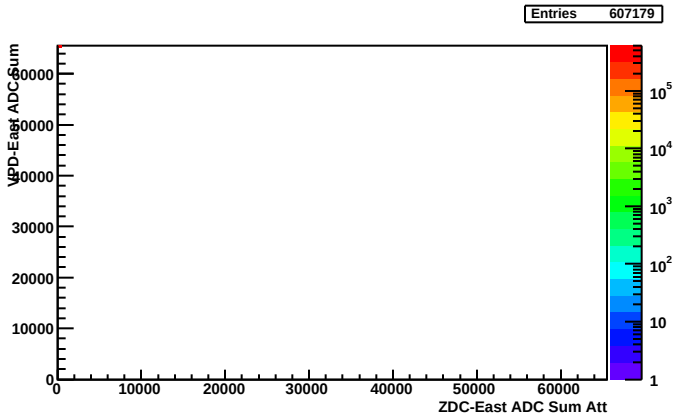

Entries 607179
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

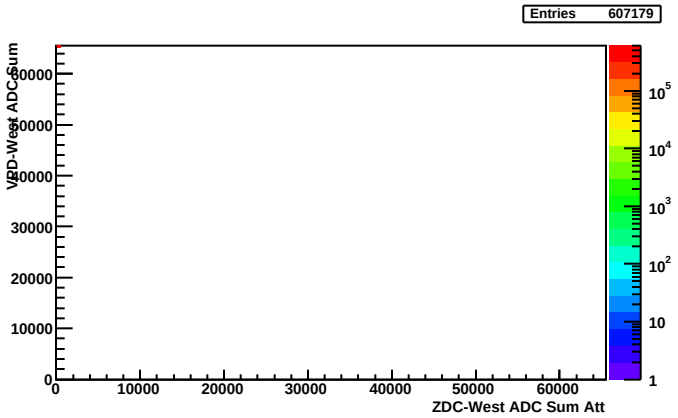

Entries 607179
BBC-S-East ADC Sum
VPD-East ADC Sum

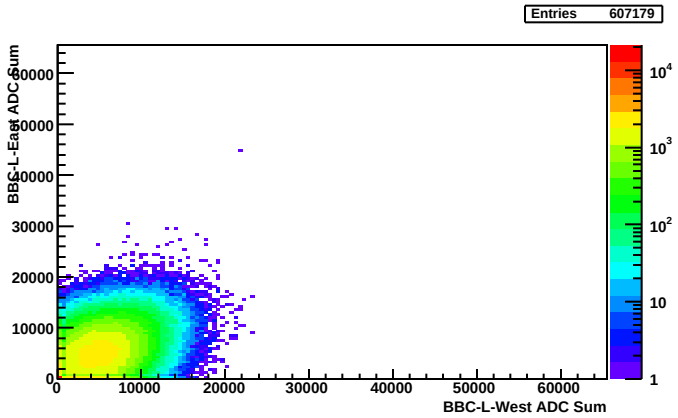

Entries 607179
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 607179
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 607179
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 607179
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 607179
VPD-West ADC Sum
ZDC-West ADC Sum Att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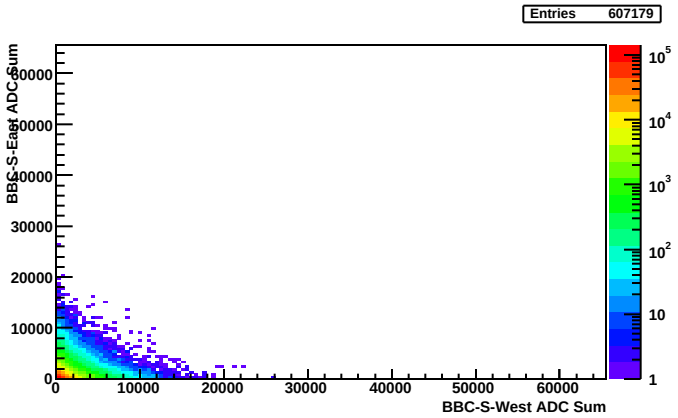
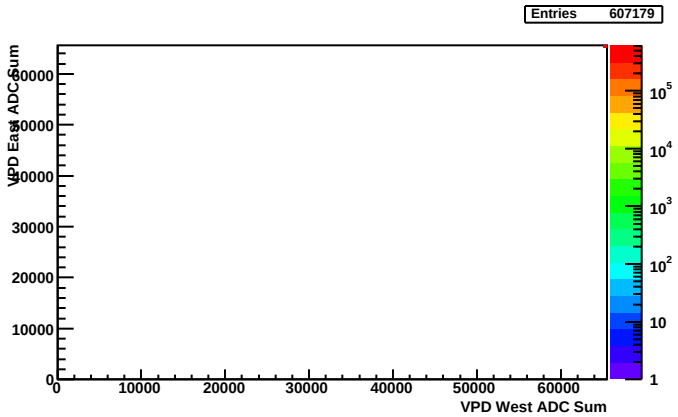
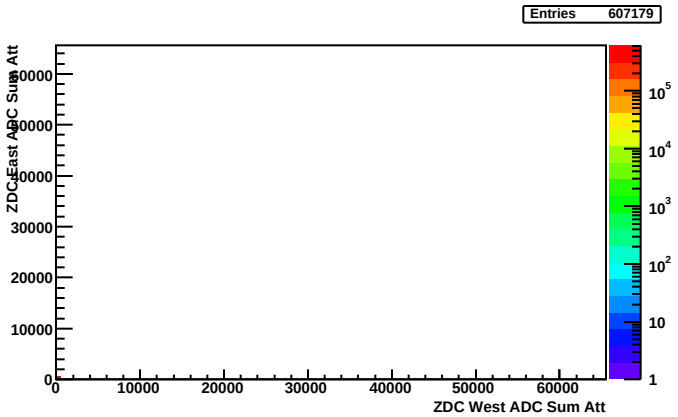
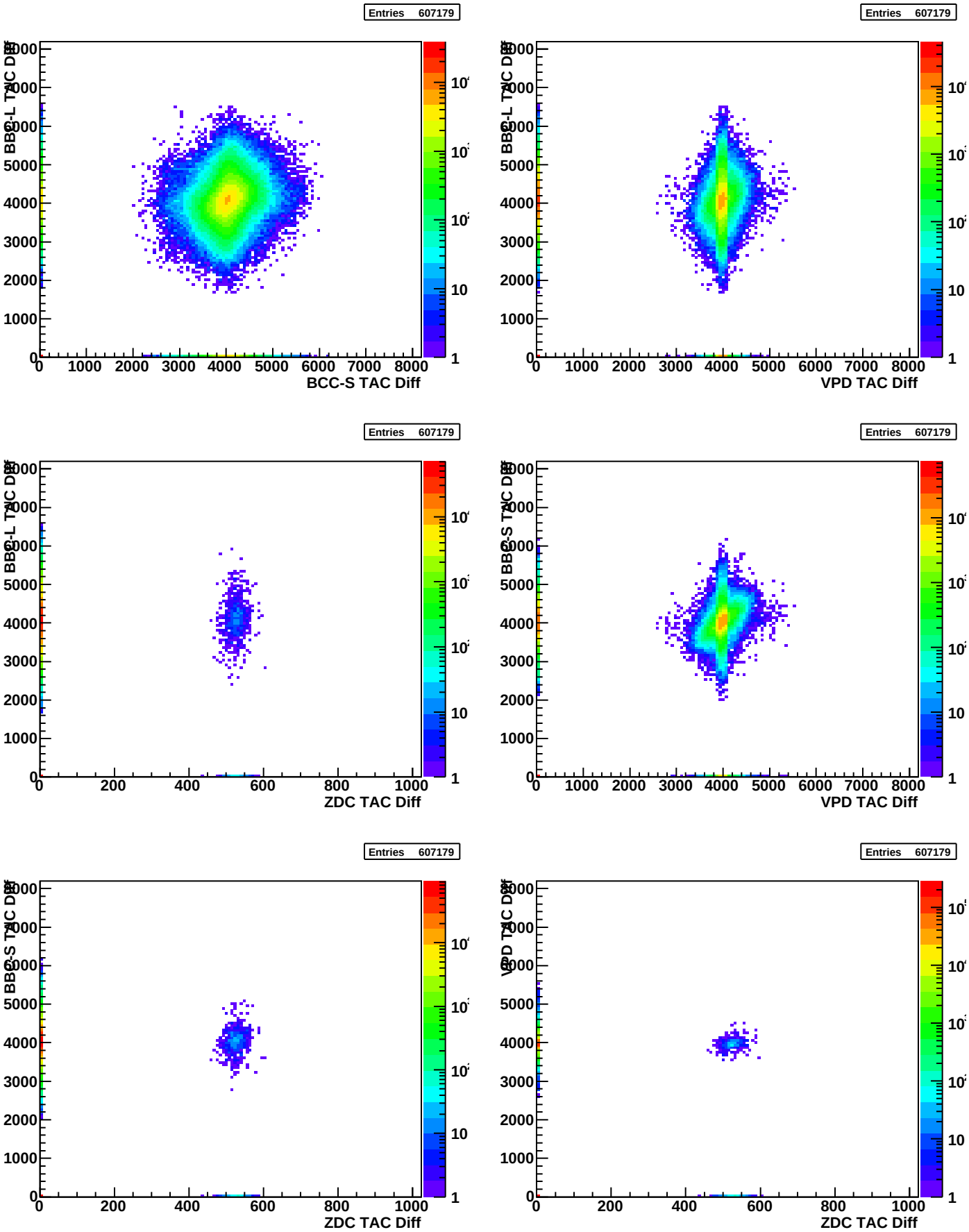
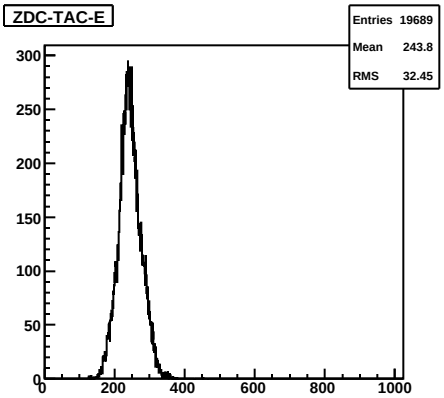
BBC-L-East ADC Sum
BBC-L-West ADC Sum

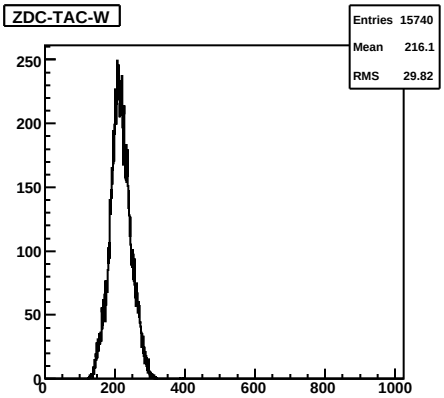

Entries 607179
BBC-S-East ADC Sum
BBC-S-West ADC Sum

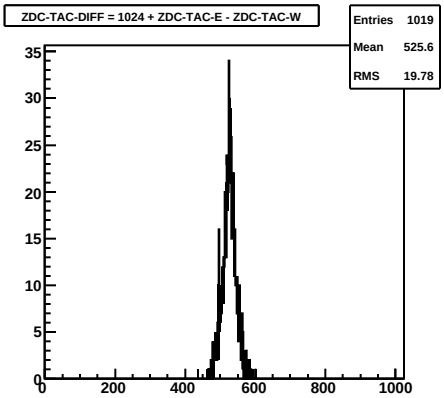

Entries 607179
VPD East ADC Sum
VPD West ADC Sum

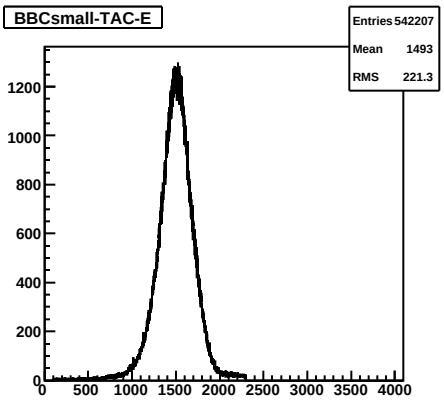

Entries 607179
ZDC East ADC Sum Att
ZDC West ADC Sum Att

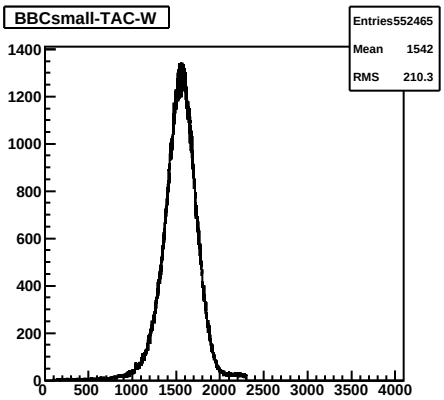

Entries 607179
BBC-L TAC Diff
BCC-S TAC Diff
Entries 607179
BBC-L TAC Diff
VPD TAC Diff
Entries 607179
BBC-L TAC Diff
ZDC TAC Diff
Entries 607179
BBC-S TAC Diff
VPD TAC Diff
Entries 607179
BBC-S TAC Diff
ZDC TAC Diff
Entries 607179
VPD TAC Diff
ZDC TAC Diff

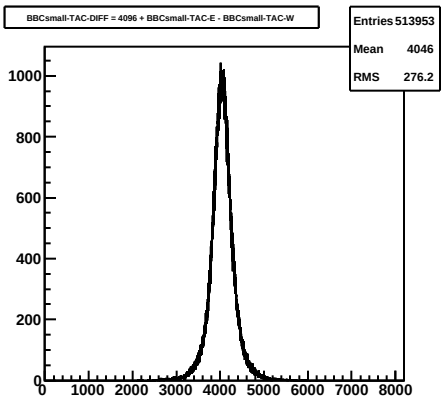

ZDC-TAC-E
Entries 19689
Mean 243.8
RMS 32.45

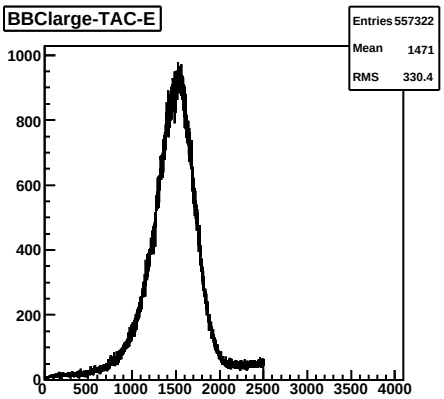

ZDC-TAC-W
Entries 15740
Mean 216.1
RMS 29.82

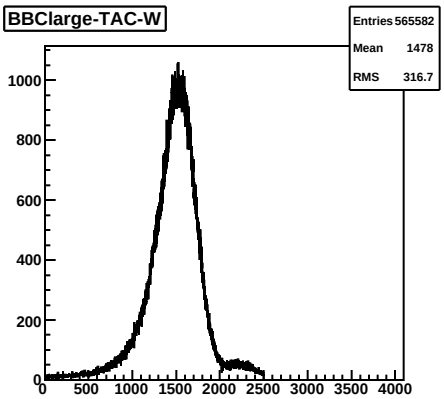

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1019
Mean 525.6
RMS 19.78

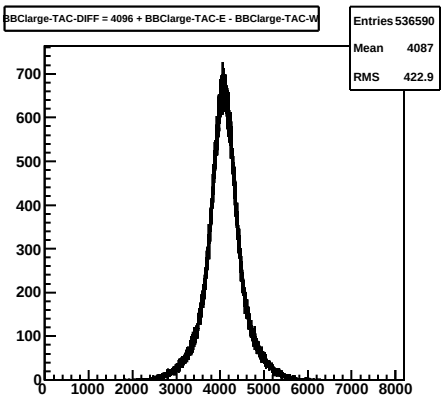

BBCsmall-TAC-E
Entries 542207
Mean 1493
RMS 221.3

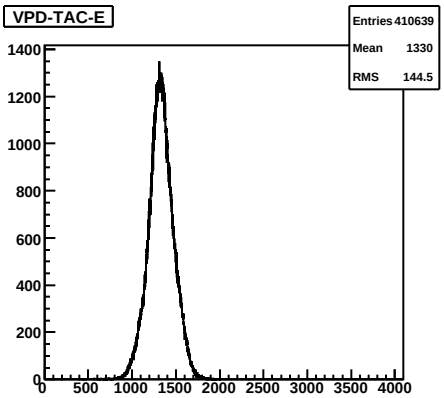

BBCsmall-TAC-W
Entries 552465
Mean 1542
RMS 210.3

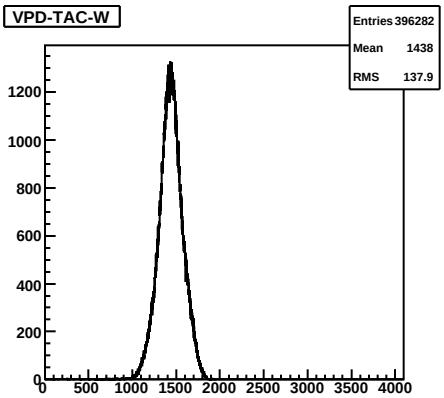

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 513953
Mean 4046
RMS 276.2

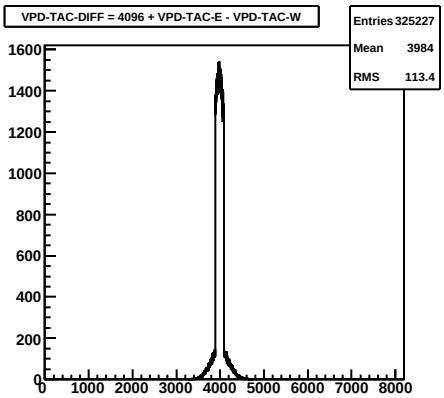

BBClarge-TAC-E
Entries 557322
Mean 1471
RMS 330.4

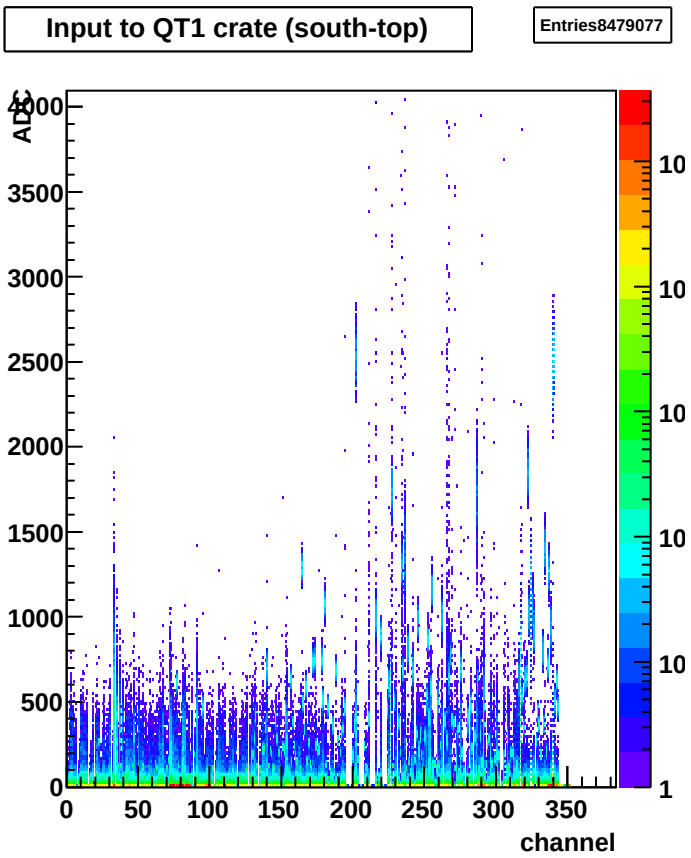

BBClarge-TAC-W
Entries 565582
Mean 1478
RMS 316.7

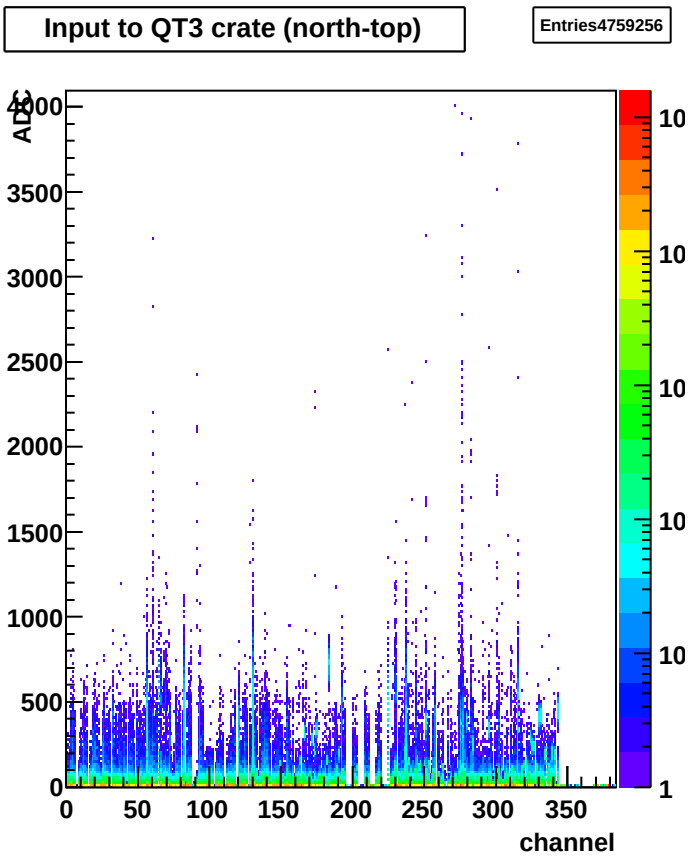

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 536590
Mean 4087
RMS 422.9

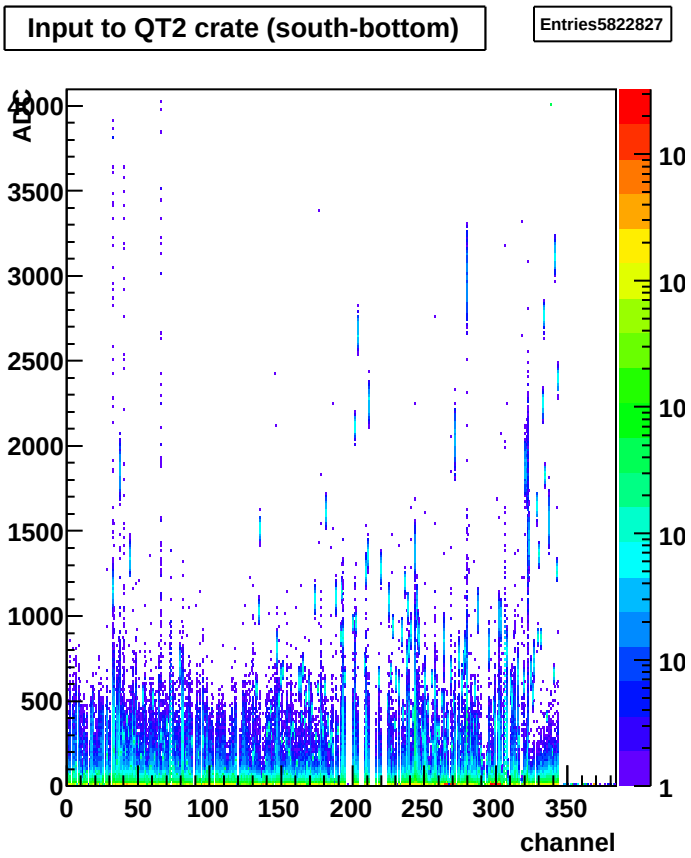

VPD-TAC-E
Entries 410639
Mean 1330
RMS 144.5

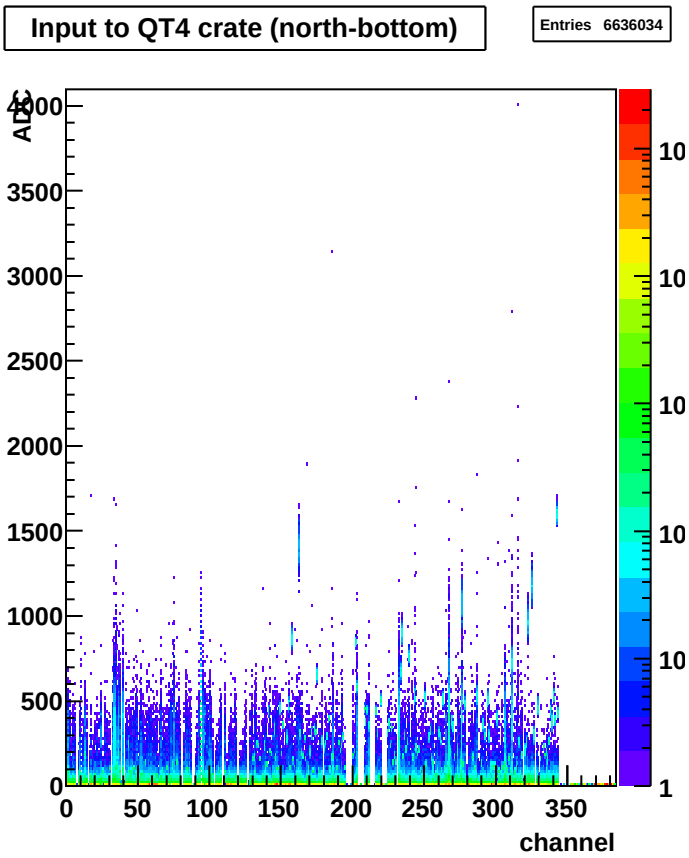

VPD-TAC-W
Entries 396282
Mean 1438
RMS 137.9

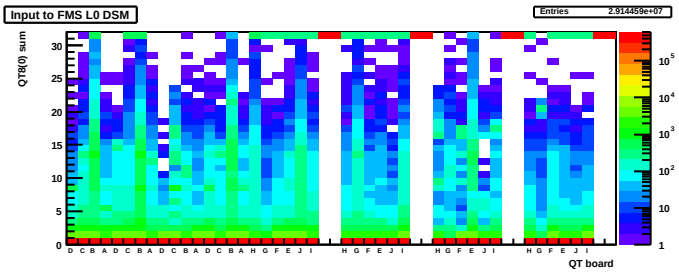

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 325227
Mean 3984
RMS 113.4

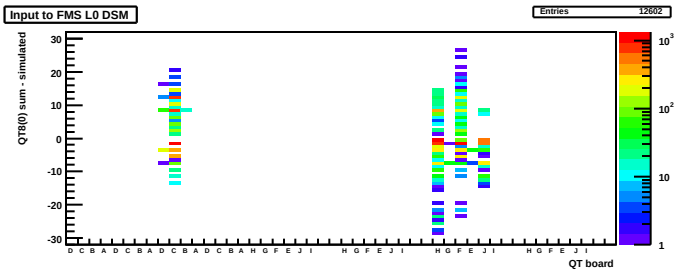

Input to QT1 crate (south-top)
Entries8479077
ADC
channel

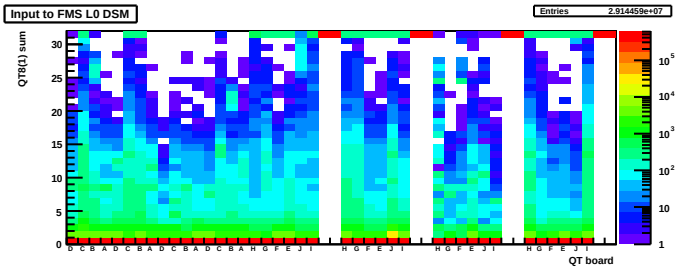

Input to QT3 crate (north-top)
Entries4759256
ADC
channel

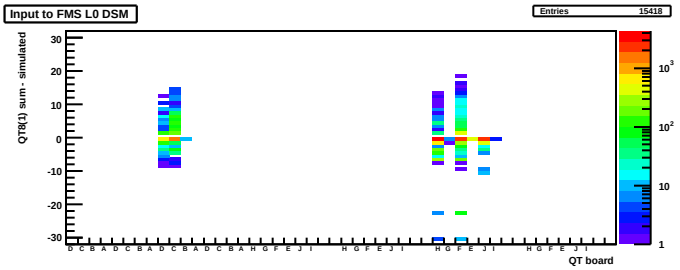

Input to QT2 crate (south-bottom)
Entries5822827
ADC
channel

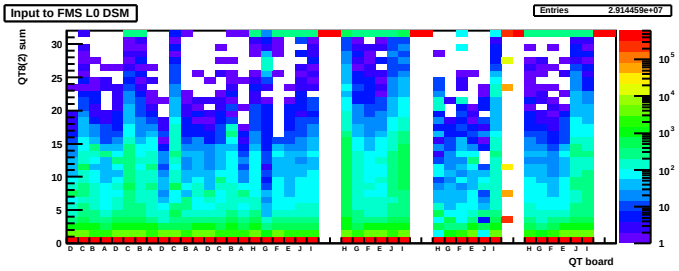

Input to QT4 crate (north-bottom)
Entries 6636034
ADC
channel

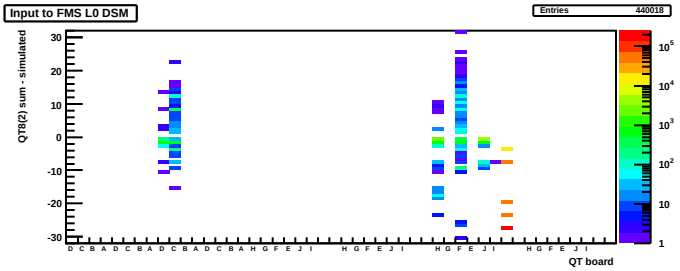

Input to FMS L0 DSM
Entries 2.914459e+07
QT8(0) sum
QT board

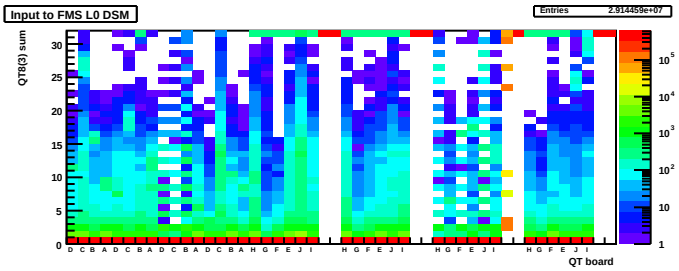

Input to FMS L0 DSM
Entries 12602
QT8(0) sum - simulated
QT board

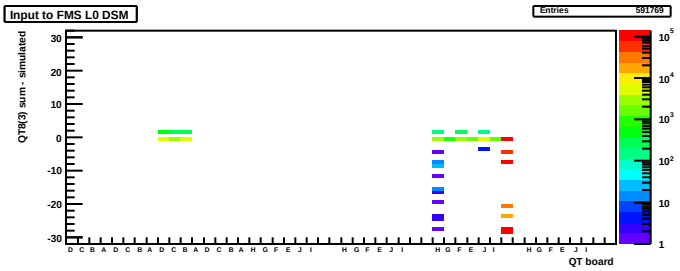

Input to FMS L0 DSM
Entries 2.914459e+07
QT8(1) sum
QT board

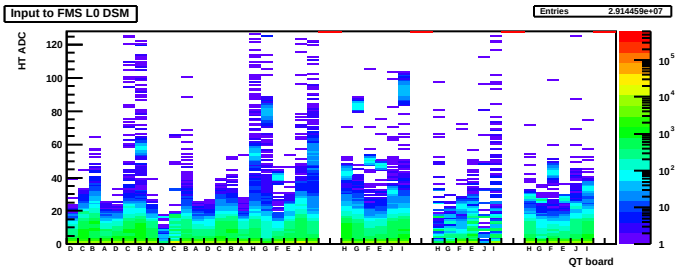

Input to FMS L0 DSM
Entries 15418
QT8(1) sum - simulated
QT board

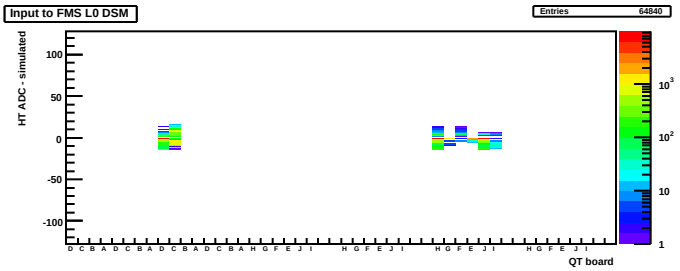

Input to FMS L0 DSM
Entries 2.914459e+07
QT8(2) sum
QT board

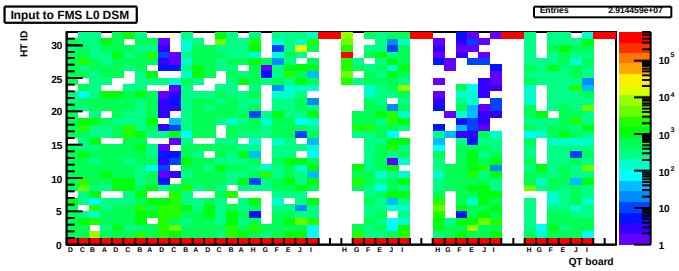

Input to FMS L0 DSM
Entries 440018
QT8(2) sum - simulated
QT board

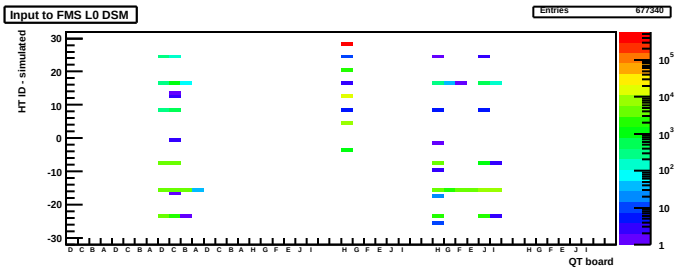

Input to FMS L0 DSM
Entries 2.914459e+07
QT8(3) sum
QT board

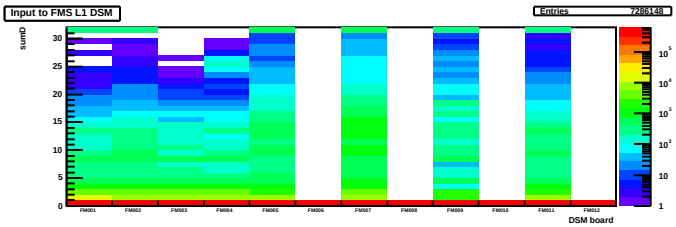

Input to FMS L0 DSM
Entries 591769
QT8(3) sum - simulated
QT board

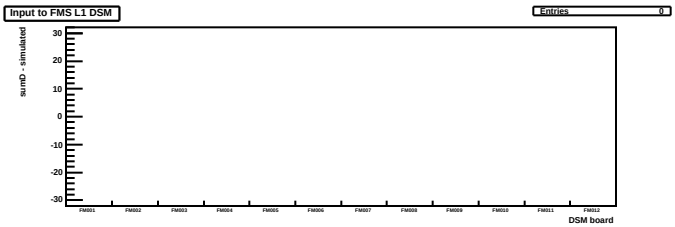

Input to FMS L0 DSM
Entries 2.914459e+07
HT ADC
QT board

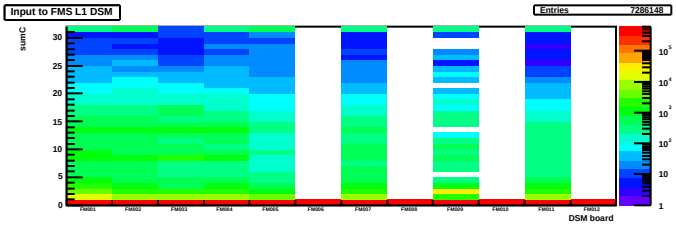

Input to FMS L0 DSM
Entries 64840
HT ADC - simulated
QT board

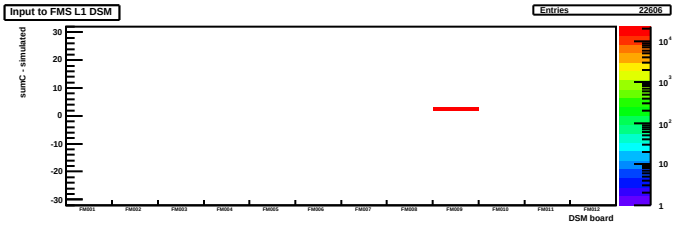

Input to FMS L0 DSM
Entries 2.914459e+07
HT ID
QT board

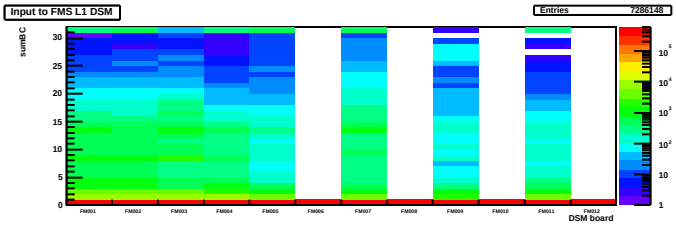

Input to FMS L0 DSM
Entries 677340
HT ID - simulated
QT board

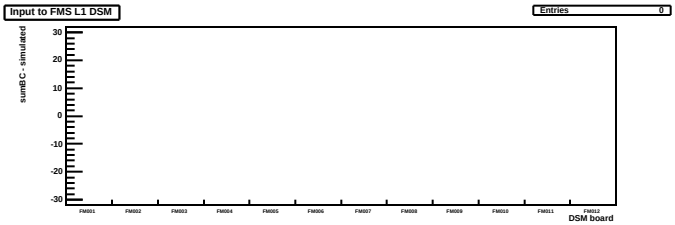

Input to FMS L1 DSM
Entries 7286148
sumD
DSM board

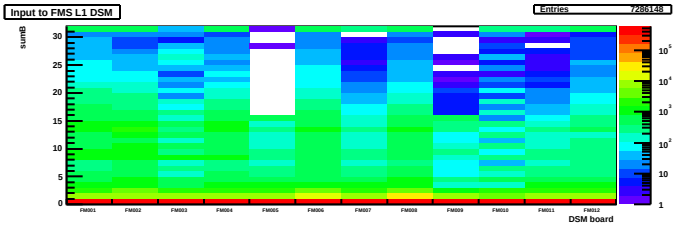

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

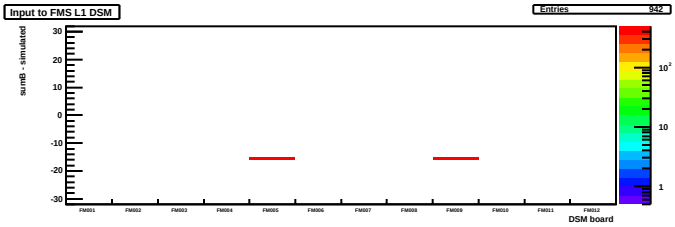

Input to FMS L1 DSM
Entries 7286148
sumC
DSM board

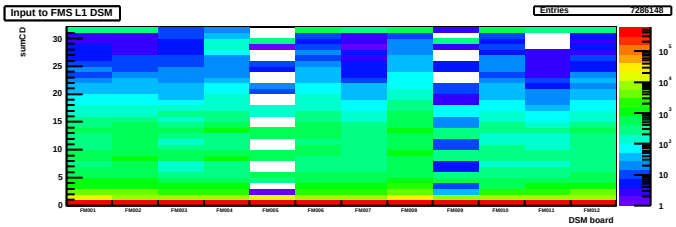

Input to FMS L1 DSM
Entries 22606
sumC - simulated
DSM board

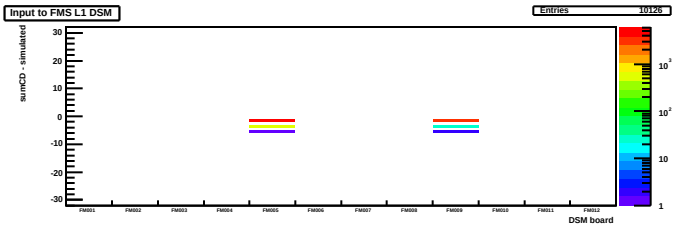

Input to FMS L1 DSM
Entries 7286148
sumBC
DSM board

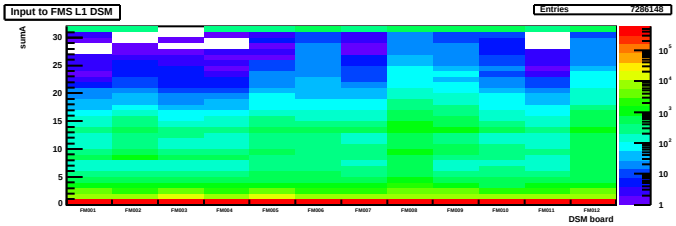

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

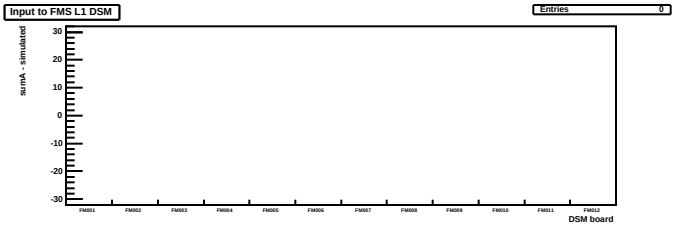

Input to FMS L1 DSM
Entries 7286148
sumB
DSM board

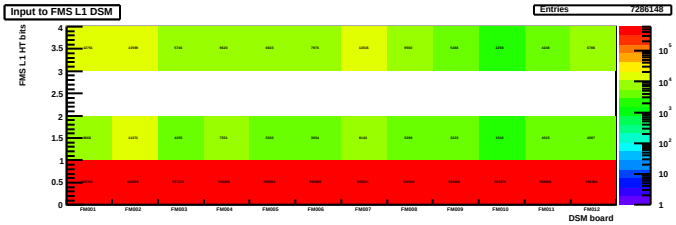

Input to FMS L1 DSM
Entries 942
sumB - simulated
DSM board

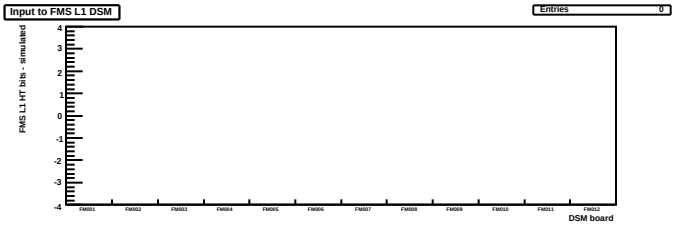

Input to FMS L1 DSM
Entries 7286148
sumCD
DSM board

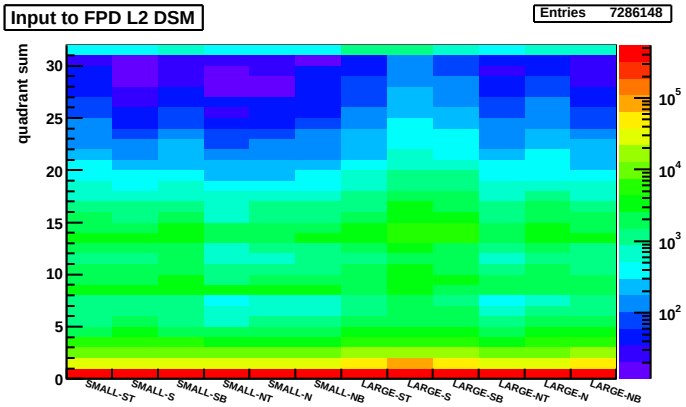

Input to FMS L1 DSM
Entries 10126
sumCD - simulated
DSM board

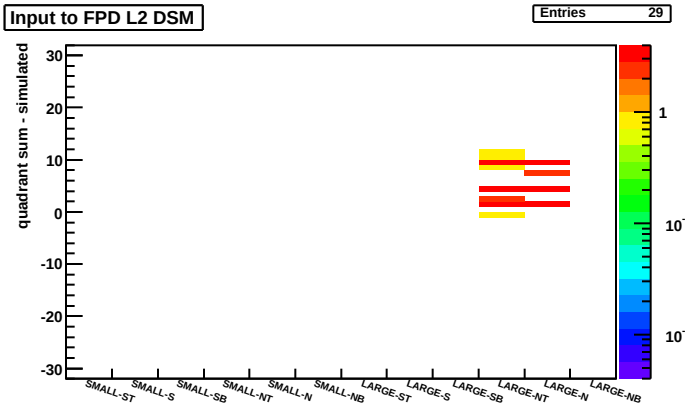

Input to FMS L1 DSM
Entries 7286148
sumA
DSM board

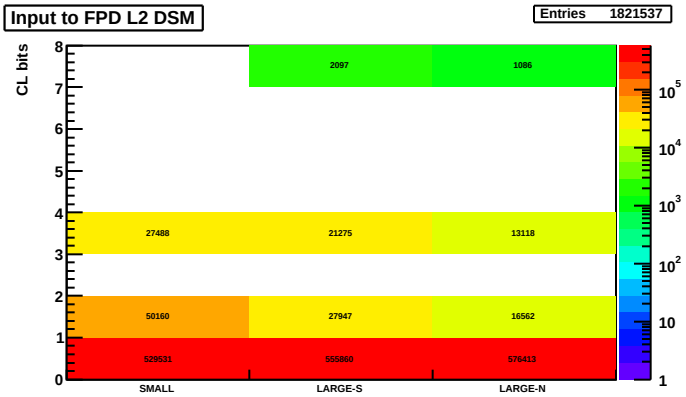

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

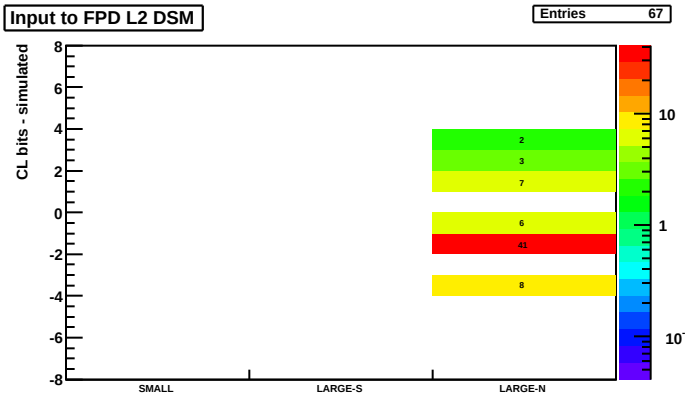

Input to FMS L1 DSM
Entries 7286148
FMS L1 HT bits
DSM board

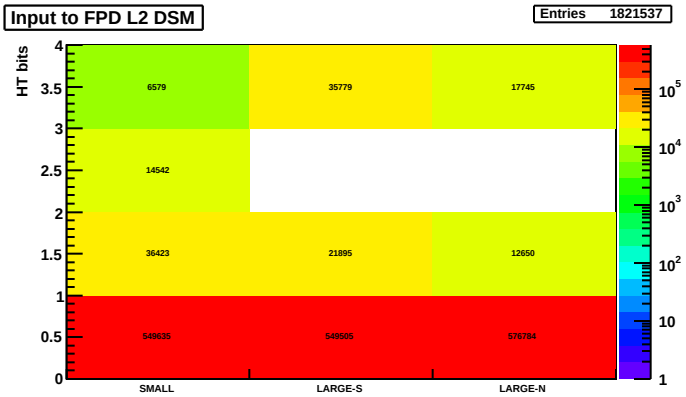

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

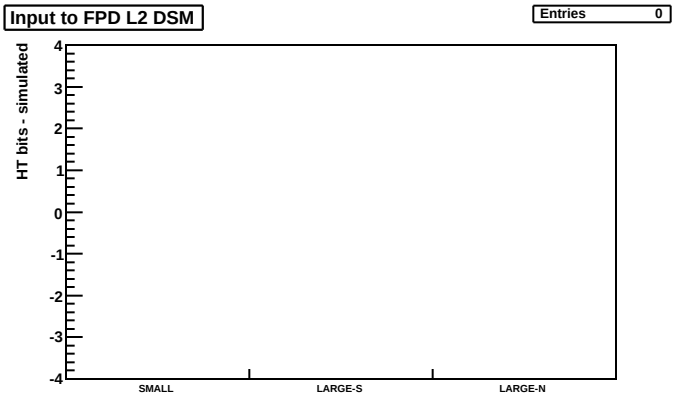

Input to FPD L2 DSM
Entries 7286148
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

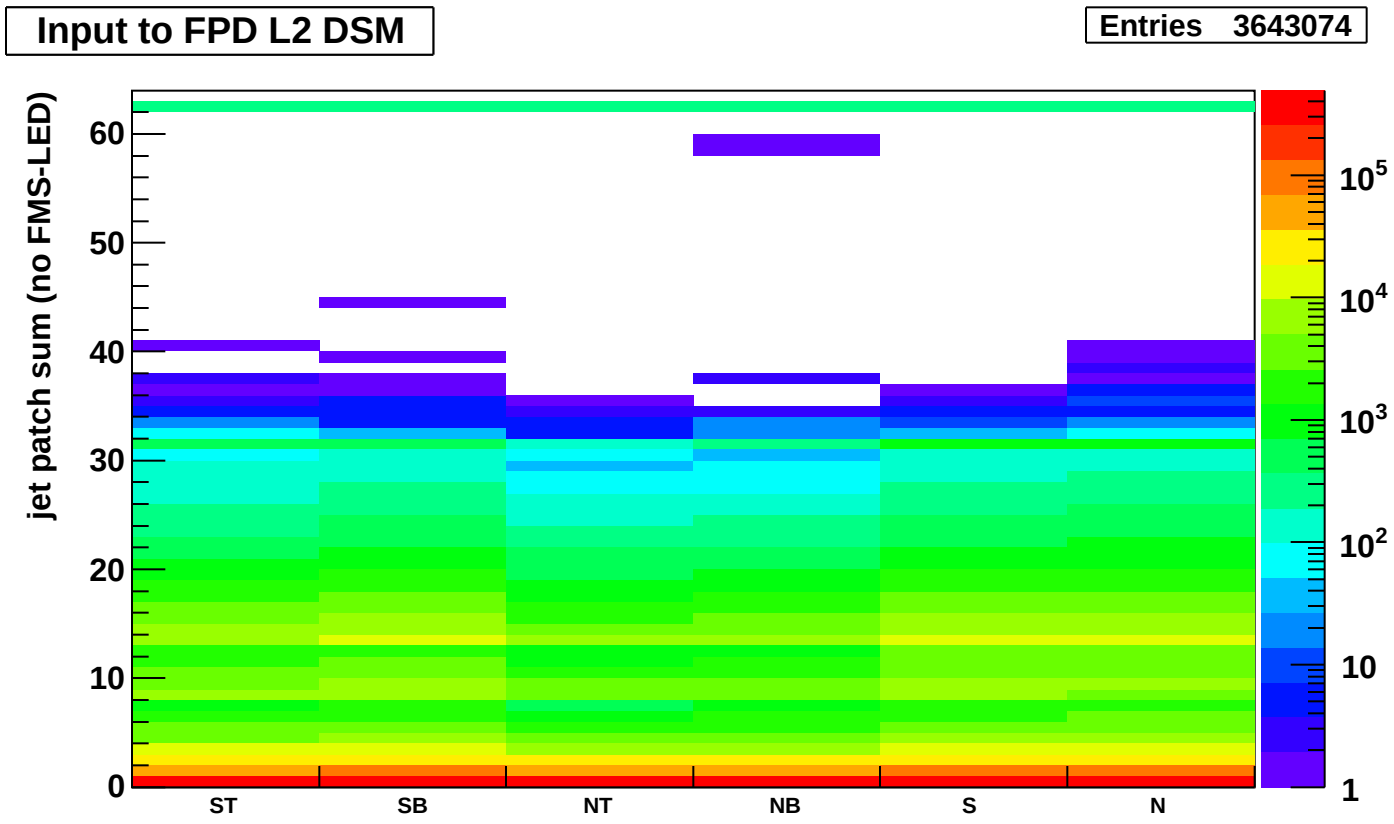

Input to FPD L2 DSM
Entries 29
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

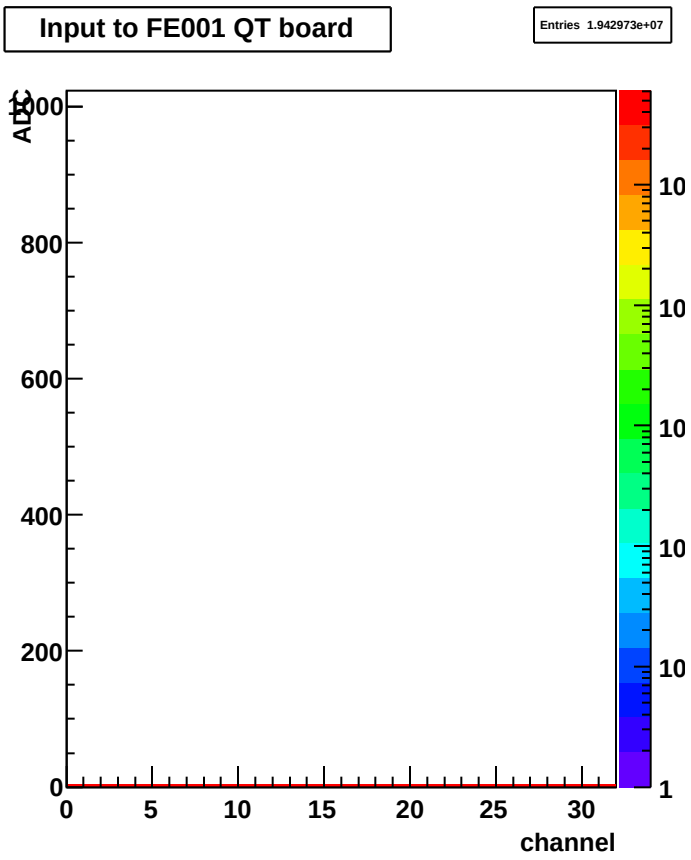

Input to FPD L2 DSM
Entries 1821537
CL bits
2097
1086
27488
21275
13118
50160
27947
16562
529531
555860
576413
SMALL
LARGE-S
LARGE-N

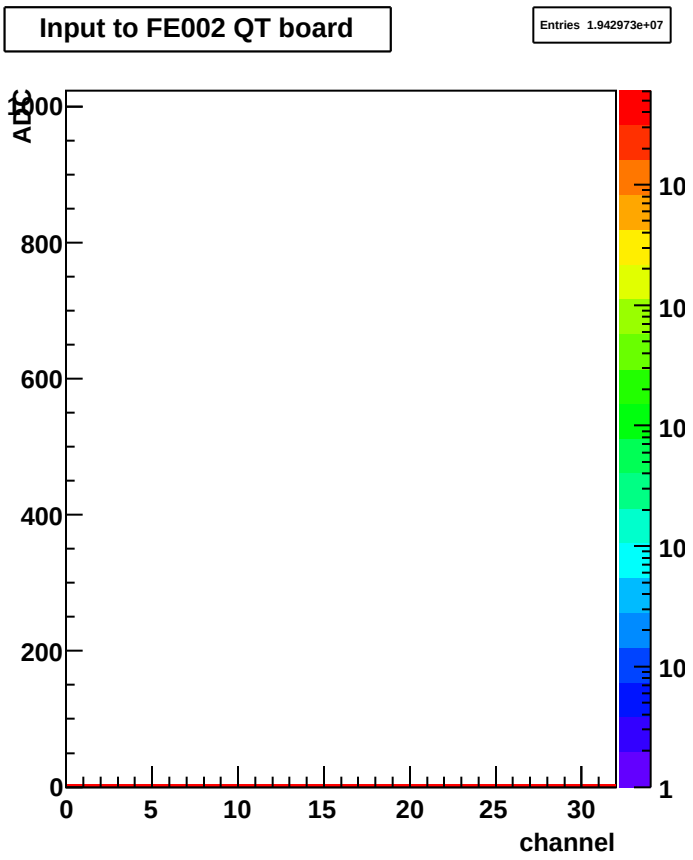

Input to FPD L2 DSM
Entries 67
CL bits - simulated
2
3
7
6
41
8
SMALL
LARGE-S
LARGE-N

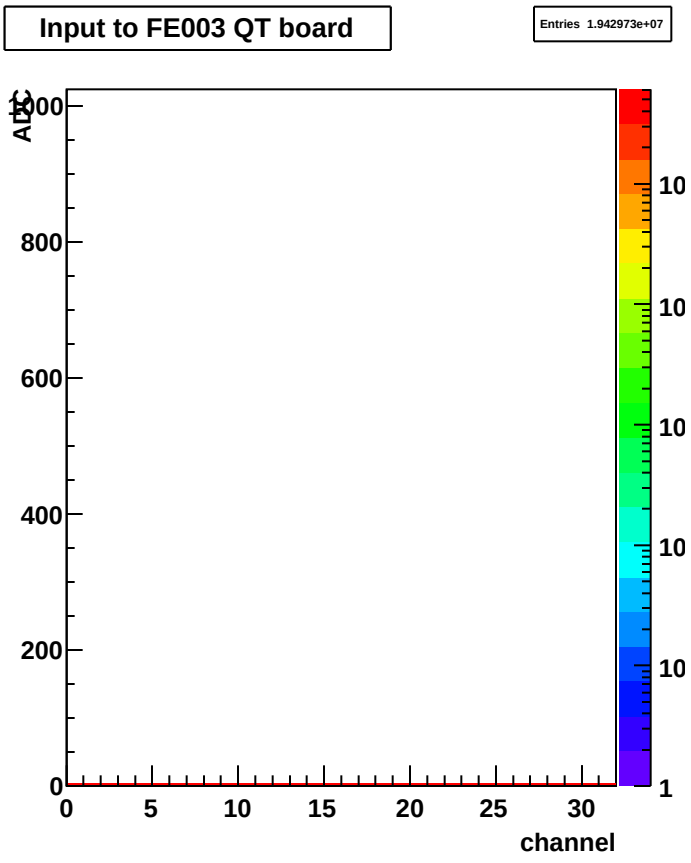

Input to FPD L2 DSM
Entries 1821537
HT bits
6579
35779
17745
14542
36423
21895
12650
549635
549505
576784
SMALL
LARGE-S
LARGE-N

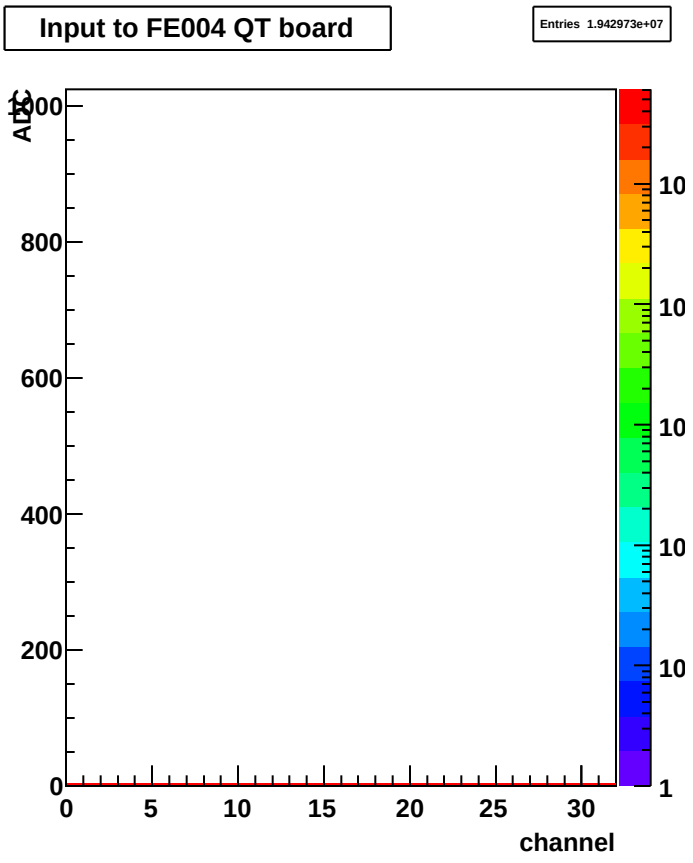

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

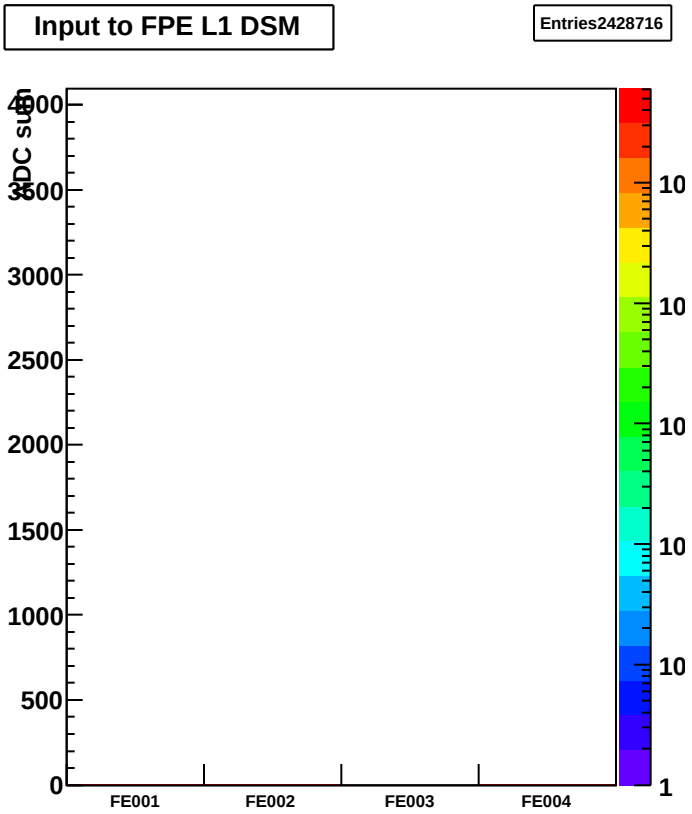

Input to FPD L2 DSM
Entries 3643074
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

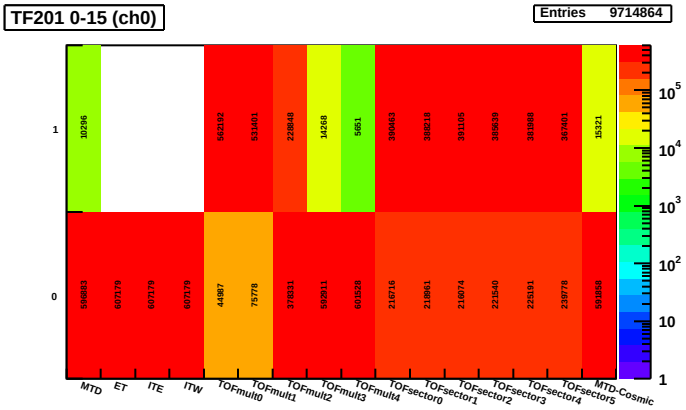

Input to FE001 QT board
Entries 1.942973e+07
ADC
channel

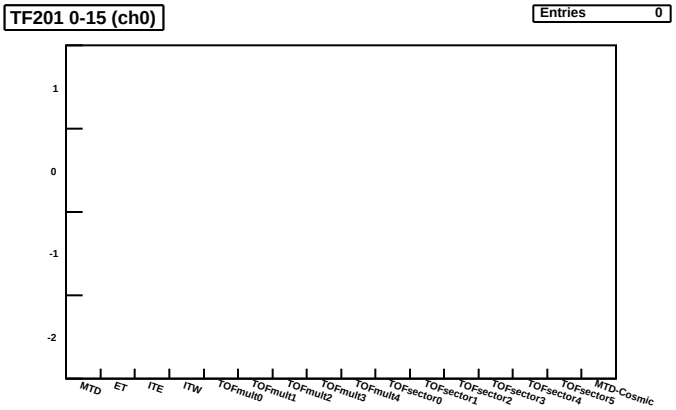

Input to FE002 QT board
Entries 1.942973e+07
ADC
channel

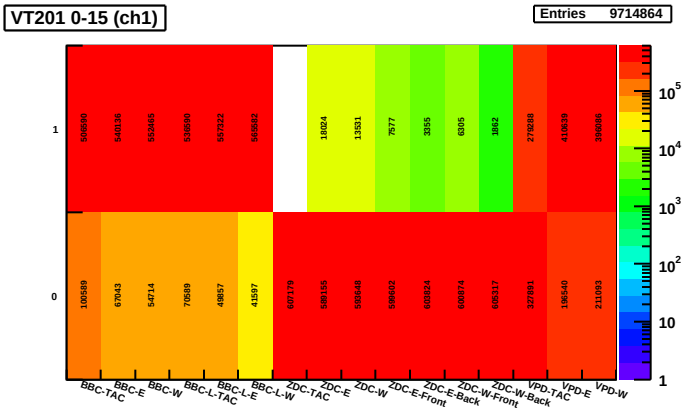

Input to FE003 QT board
Entries 1.942973e+07
ADC
channel

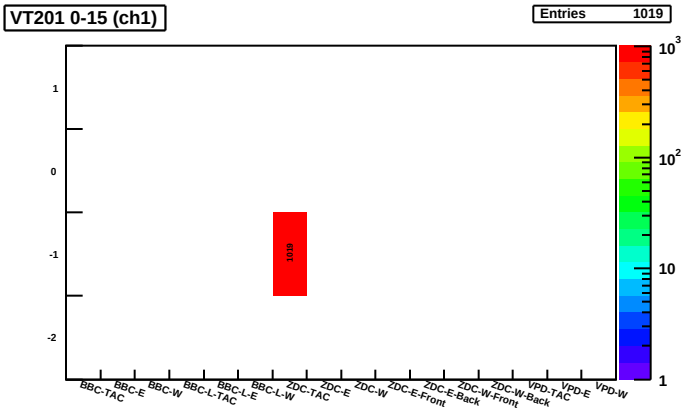

Input to FE004 QT board
Entries 1.942973e+07
ADC
channel

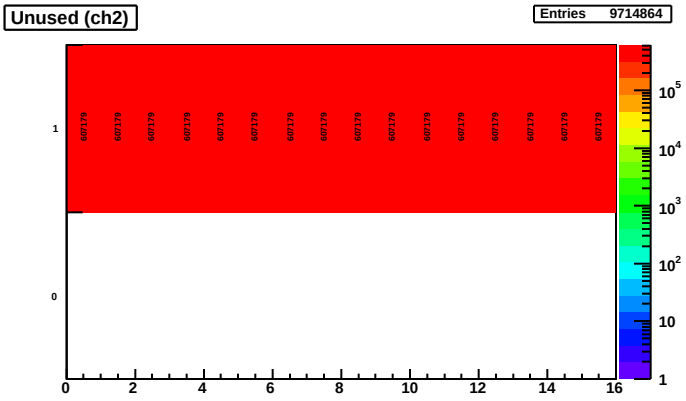

Input to FPE L1 DSM
Entries2428716
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

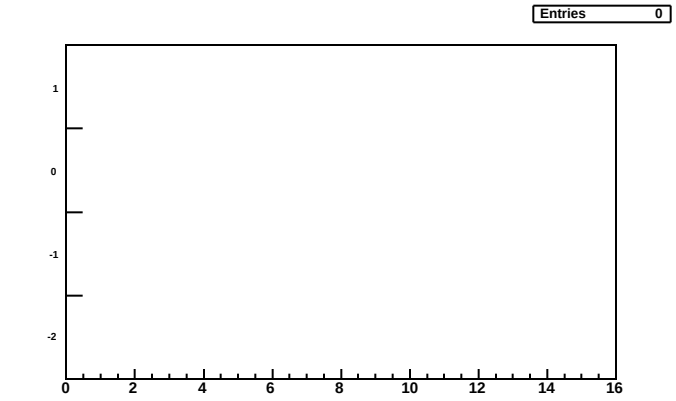

TF201 0-15 (ch0)
Entries 9714864
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

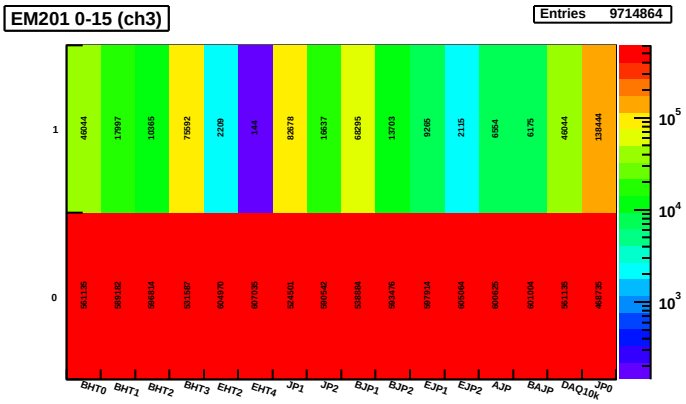

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

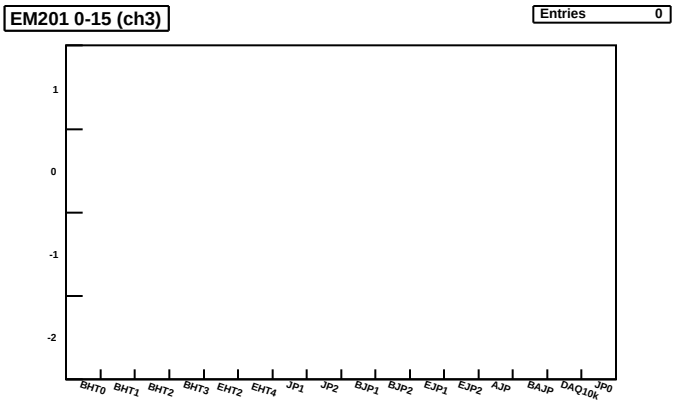

VT201 0-15 (ch1)
Entries 9714864
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1019
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

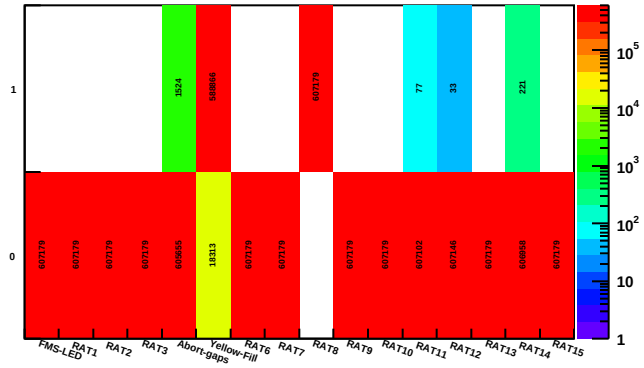

Unused (ch2)
Entries 9714864

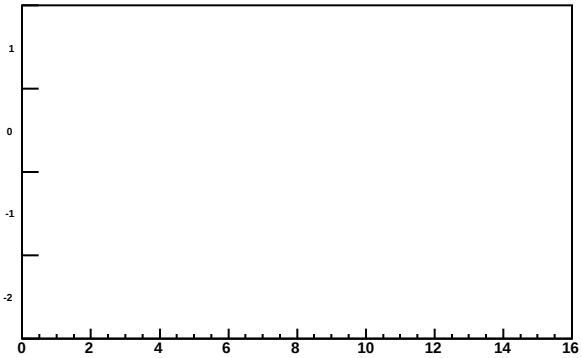

Entries 0


EM201 0-15 (ch3)
Entries 9714864
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

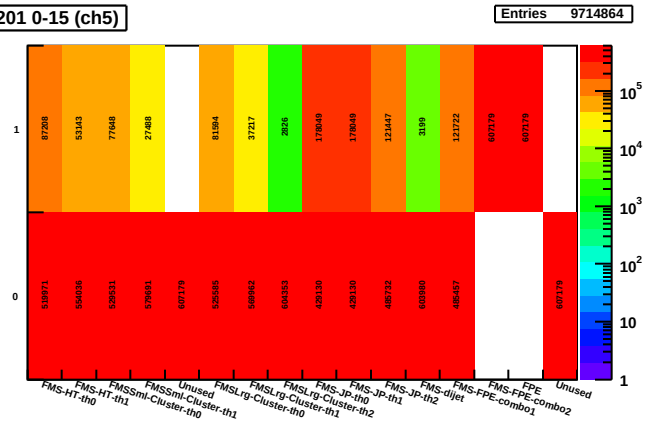

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

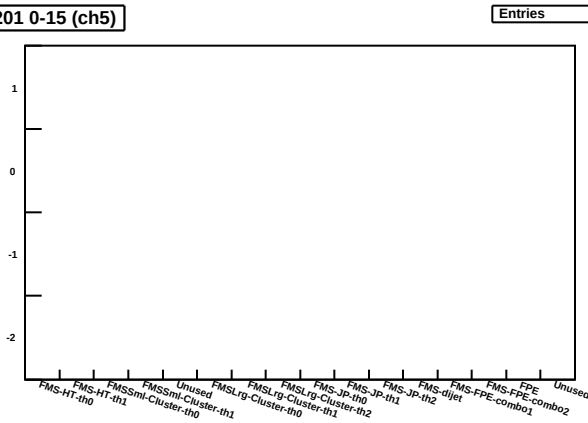




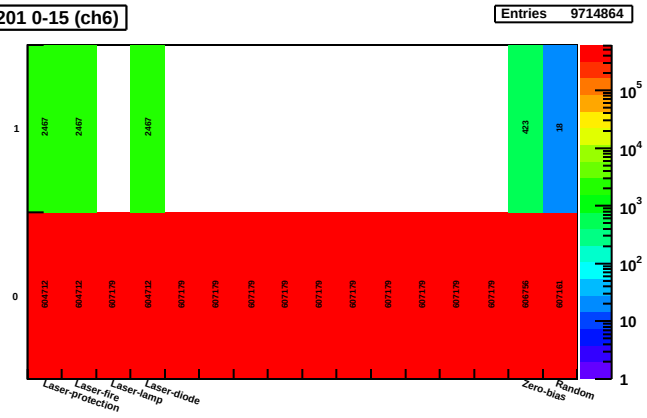
FP201 0-15 (ch5)

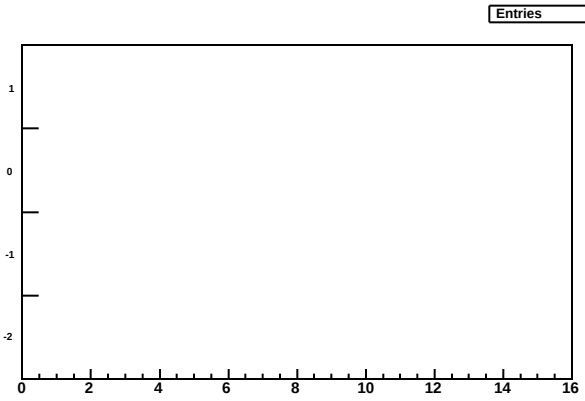
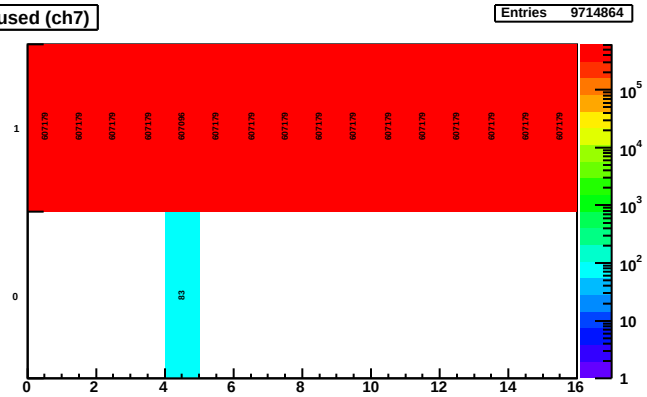
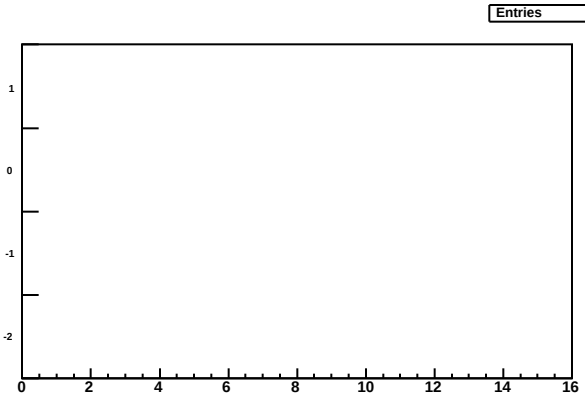


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)