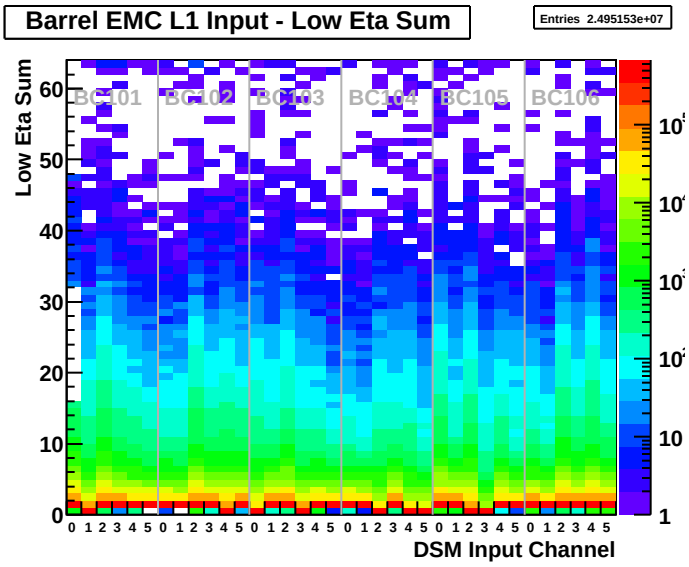
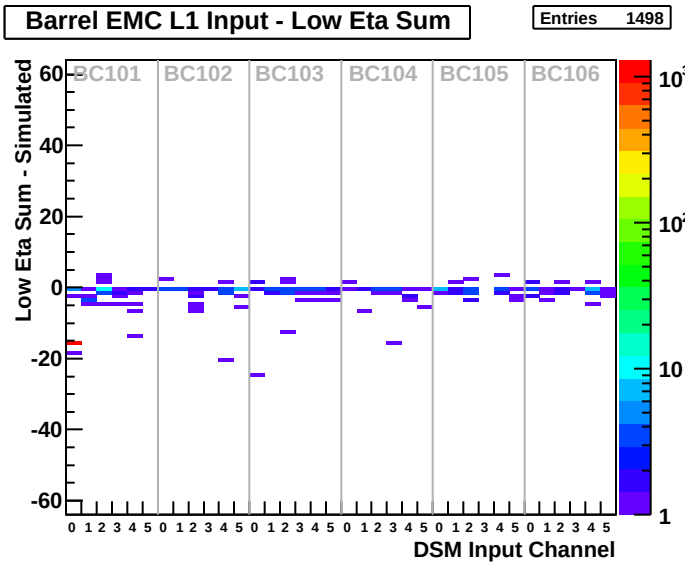
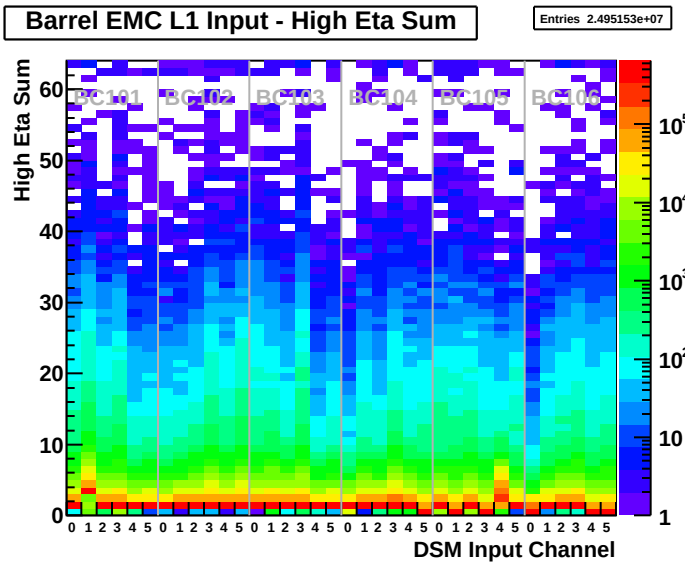
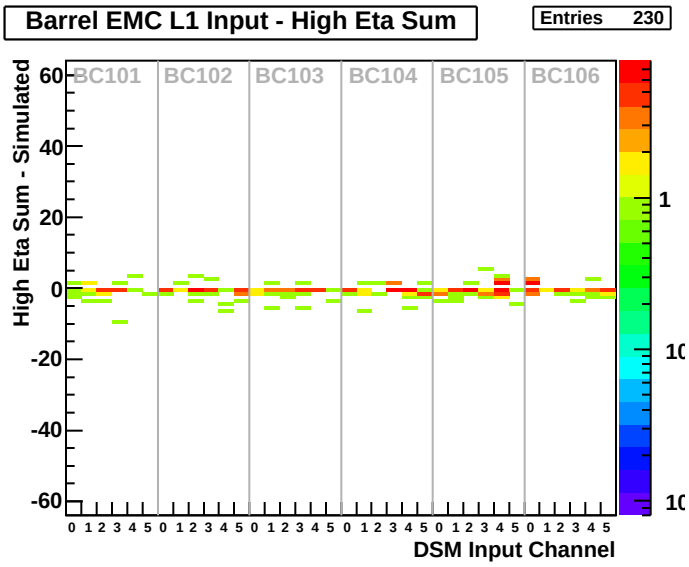
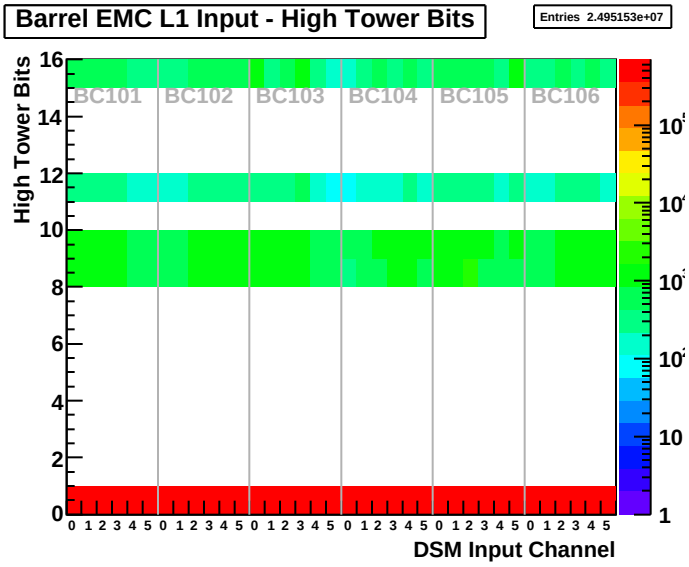
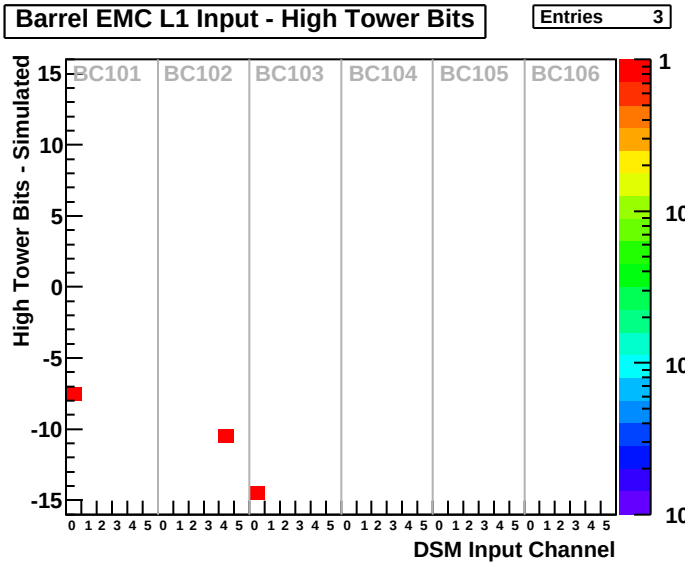

Barrel EMC L1 Input - Low Eta Sum
Entries 2.495153e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

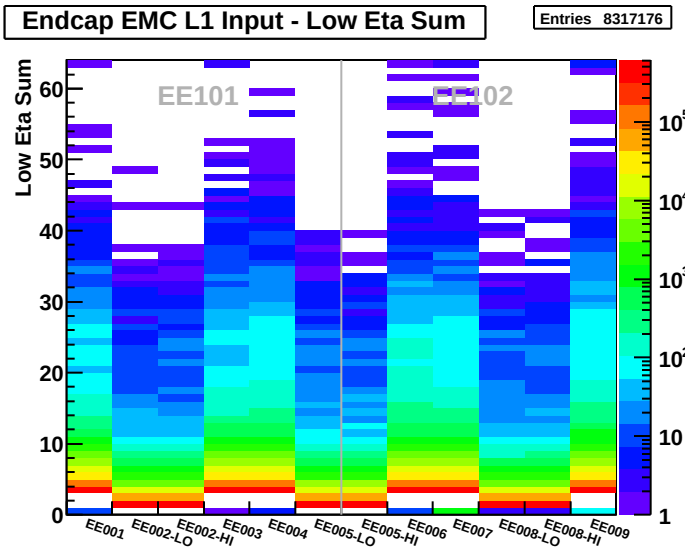

Barrel EMC L1 Input - Low Eta Sum
Entries 1498
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

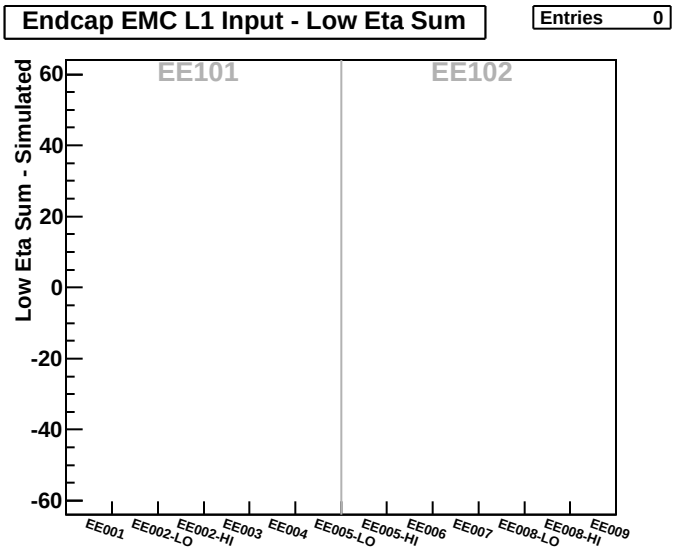

Barrel EMC L1 Input - High Eta Sum
Entries 2.495153e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

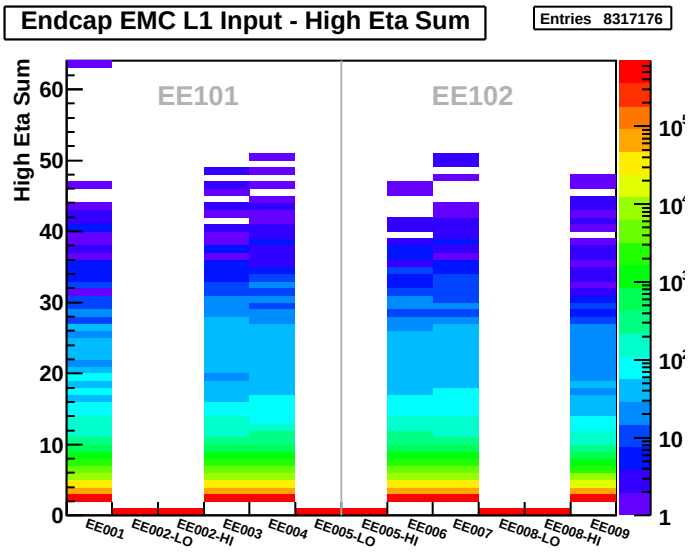

Barrel EMC L1 Input - High Eta Sum
Entries 230
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

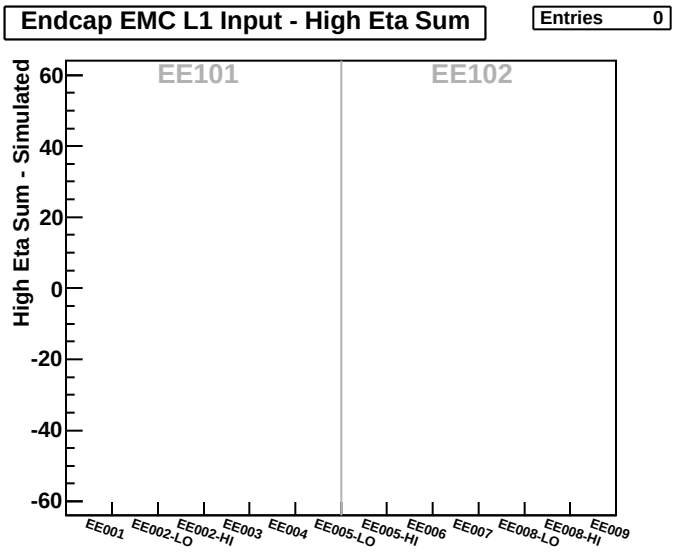

Barrel EMC L1 Input - High Tower Bits
Entries 2.495153e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

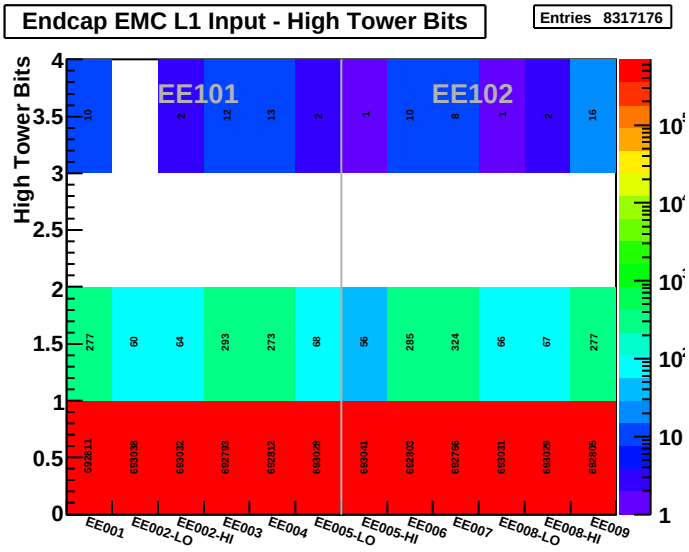

Barrel EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

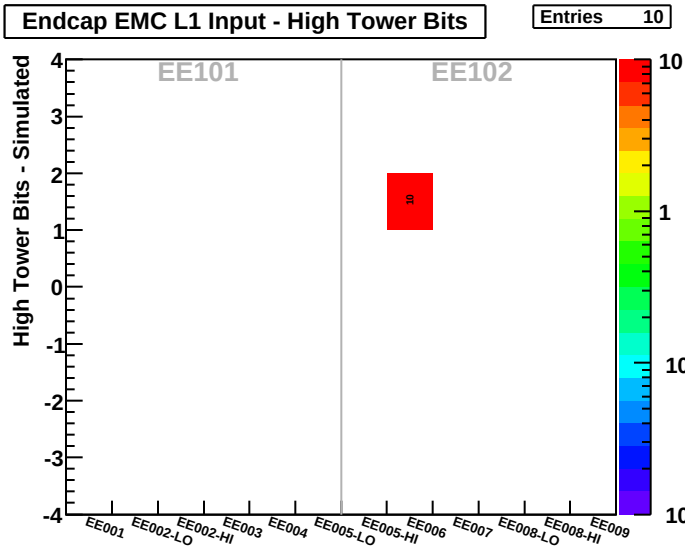

Endcap EMC L1 Input - Low Eta Sum
Entries 8317176
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

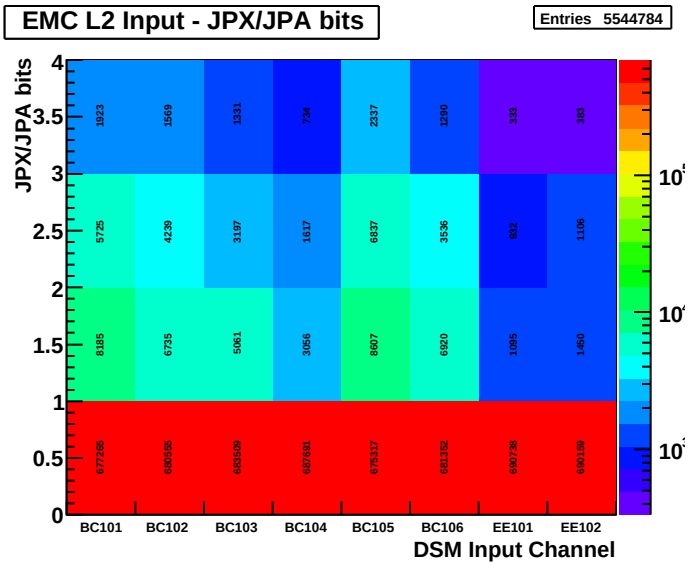

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

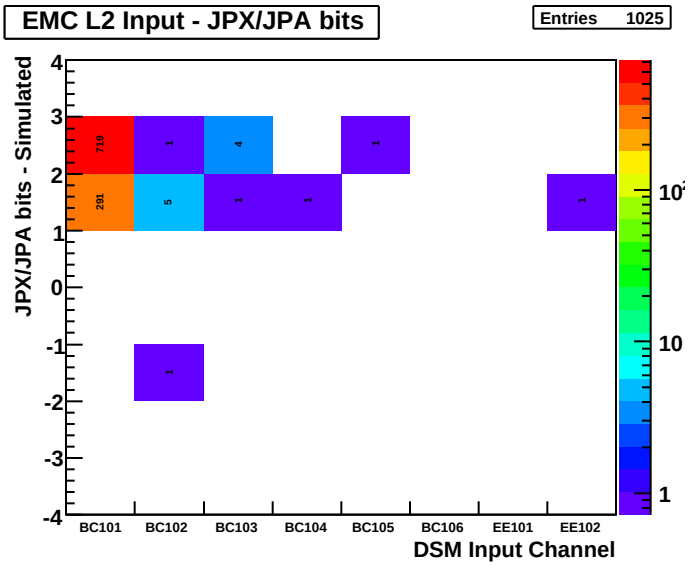

Endcap EMC L1 Input - High Eta Sum
Entries 8317176
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

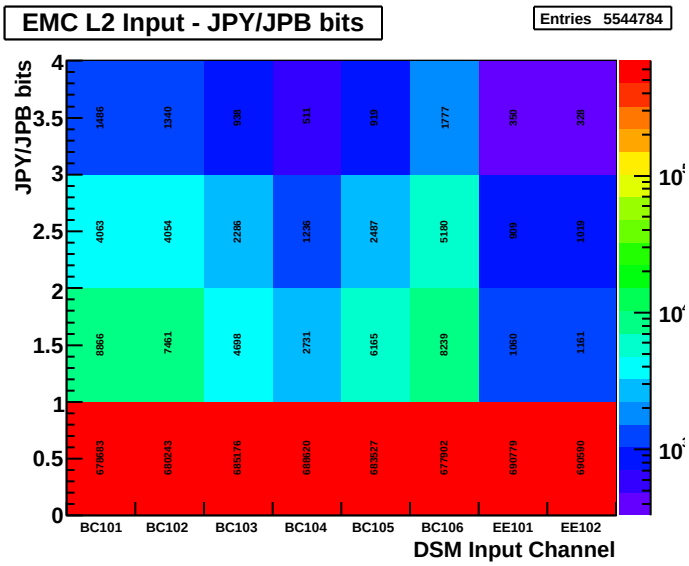

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

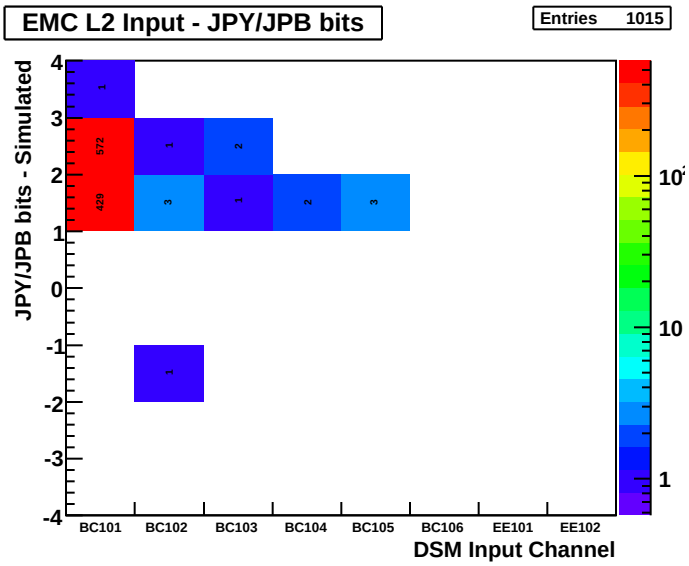

Endcap EMC L1 Input - High Tower Bits
Entries 8317176
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

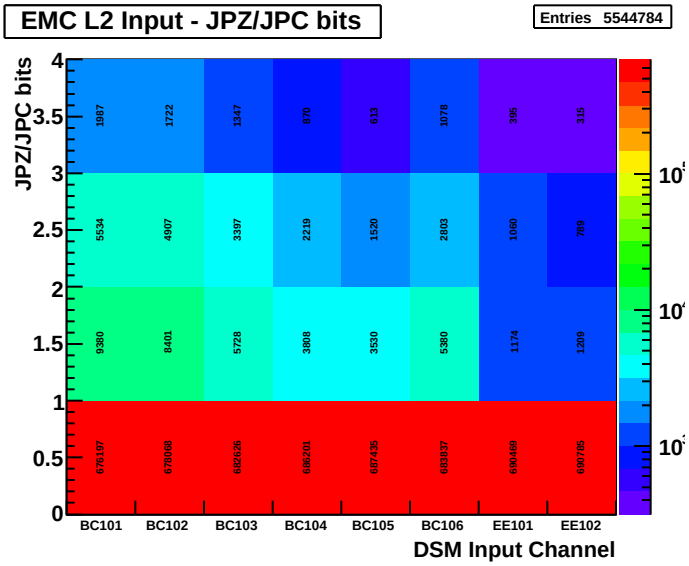

Endcap EMC L1 Input - High Tower Bits
Entries 10
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

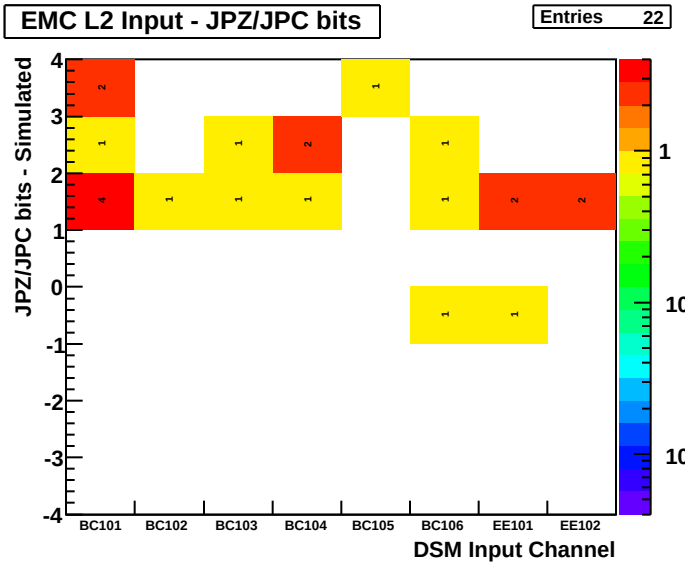

EMC L2 Input - JPX/JPA bits
Entries 5544784
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1923 1569 1331 734 2337 1290 333 383
5725 4239 3197 1617 6837 3536 932 1106
8185 6735 5061 3056 8607 6920 1095 1450
677265 680555 683509 687691 675317 681352 690738 690159

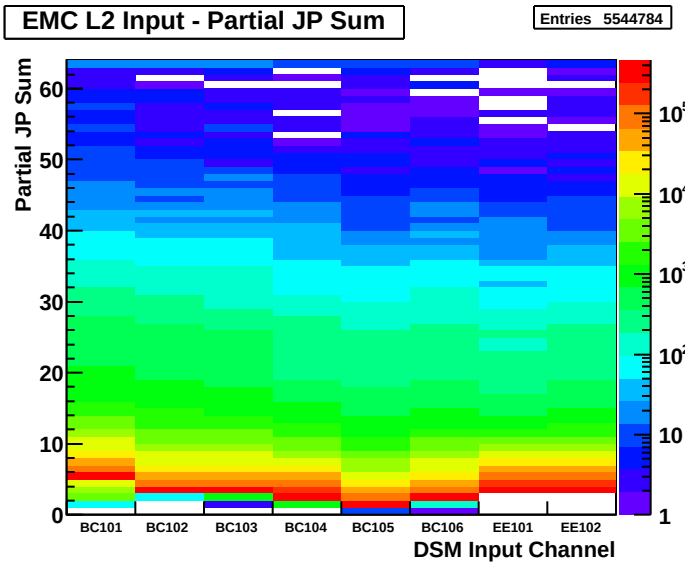

EMC L2 Input - JPX/JPA bits
Entries 1025
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
719 1 4 1
291 5 1 1 1
1

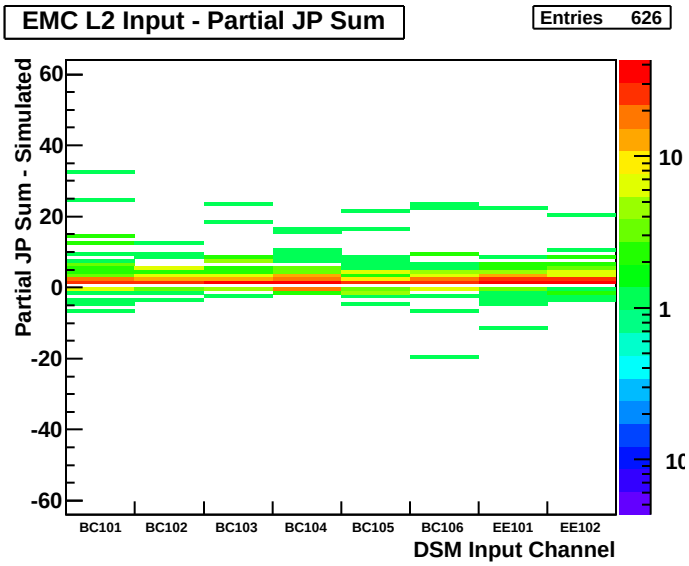

EMC L2 Input - JPY/JPB bits
Entries 5544784
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1486 1340 938 511 919 1777 350 328
4063 4054 2286 1236 2487 5180 909 1019
8866 7461 4698 2731 6165 8239 1060 1161
678683 680243 683176 686820 683527 677092 690779 690590

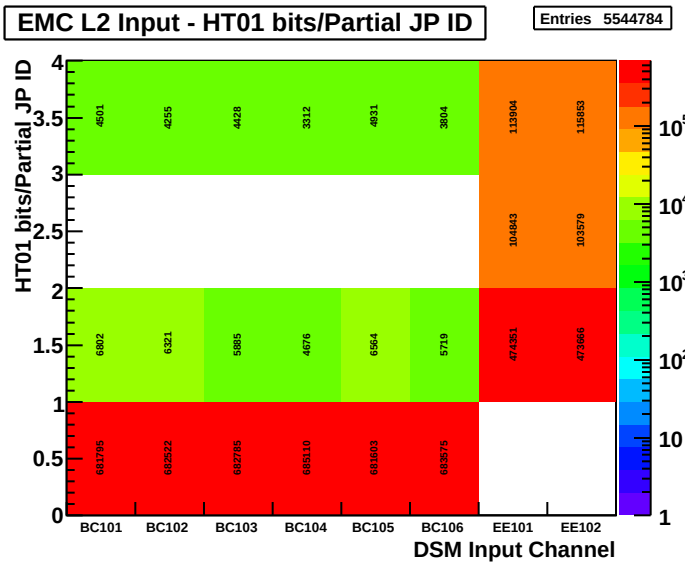

EMC L2 Input - JPY/JPB bits
Entries 1015
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
572 1 2
429 3 1 2 3
1

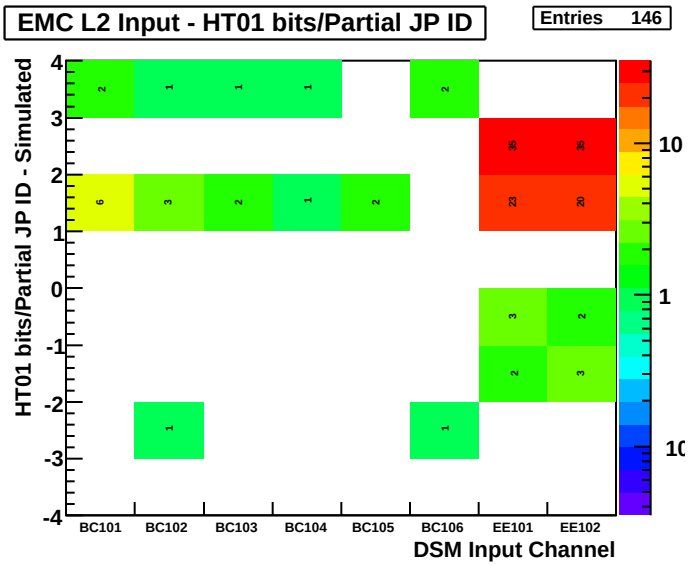

EMC L2 Input - JPZ/JPC bits
Entries 5544784
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1987 1722 1347 870 613 1078 395 315
5534 4907 3397 2219 1520 2803 1060 789
9380 8401 5728 3808 3530 5380 1174 1209
676197 678068 682626 686201 687435 683837 690469 690785

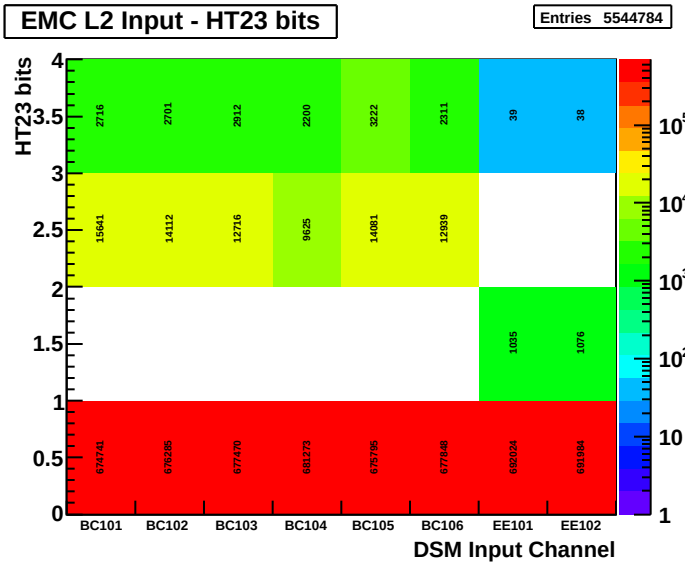

EMC L2 Input - JPZ/JPC bits
Entries 22
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1
1 1 2 1
4 1 1 1 1 2 2
1 1

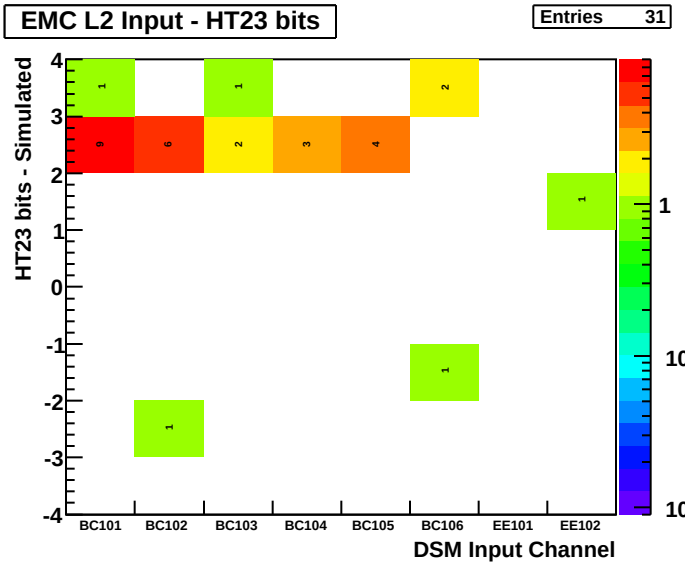

EMC L2 Input - Partial JP Sum
Entries 5544784
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

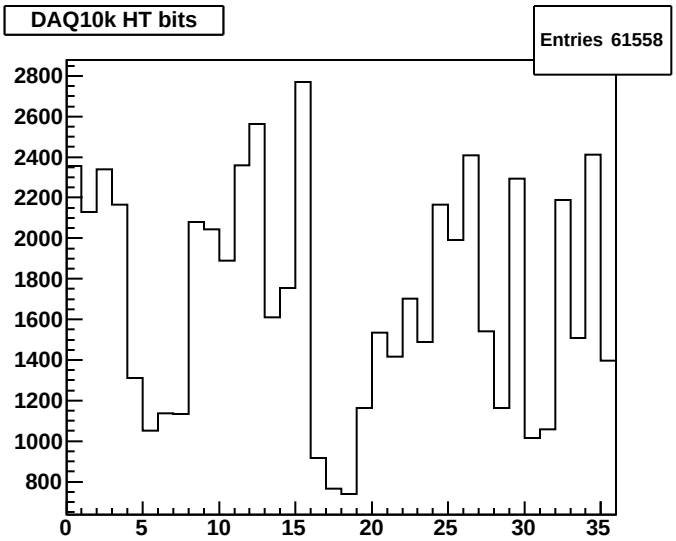

EMC L2 Input - Partial JP Sum
Entries 626
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

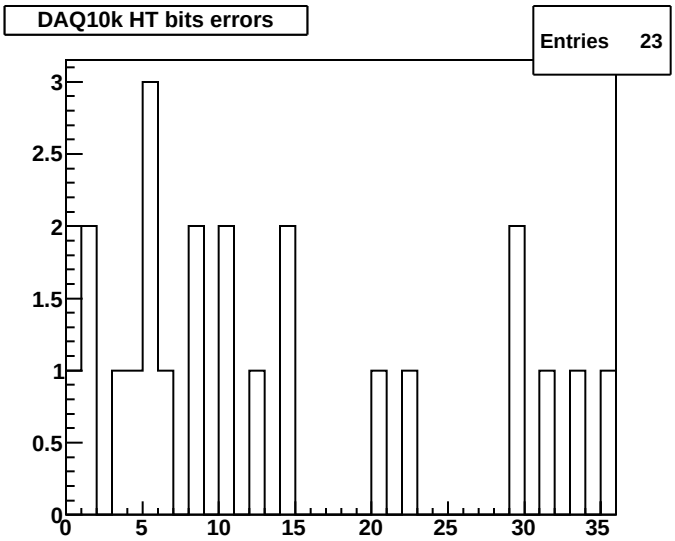

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5544784
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

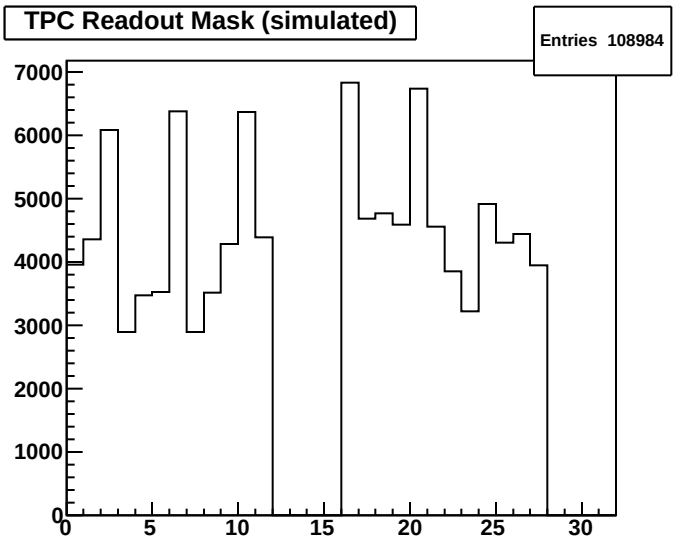

EMC L2 Input - HT01 bits/Partial JP ID
Entries 146
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

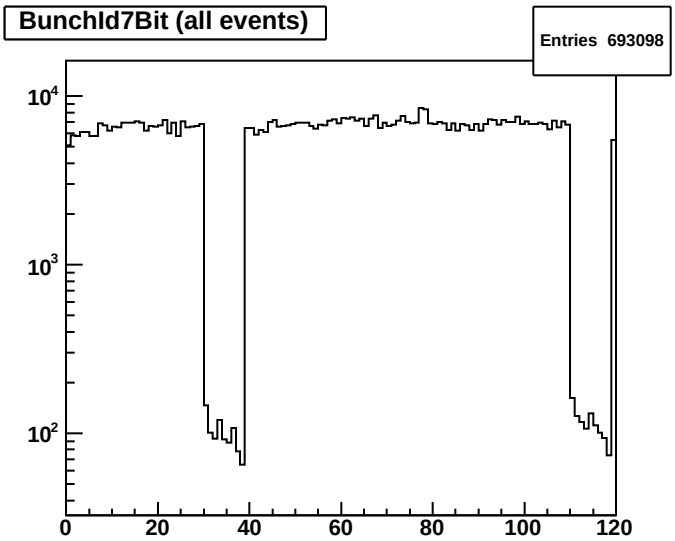

EMC L2 Input - HT23 bits
Entries 5544784
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

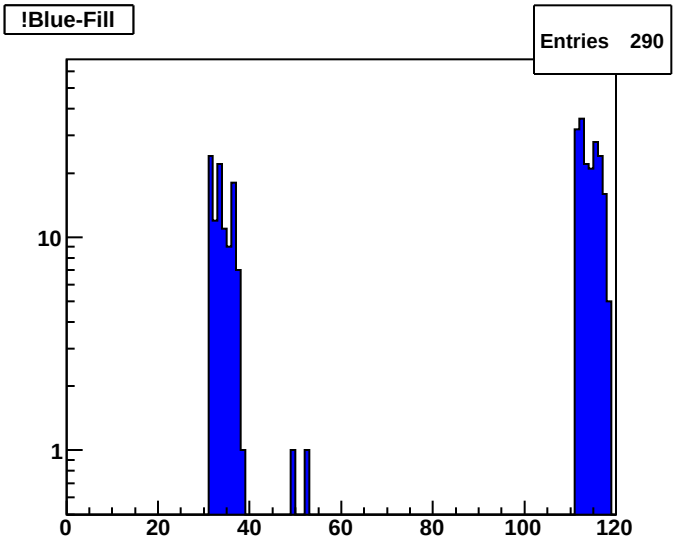

EMC L2 Input - HT23 bits
Entries 31
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

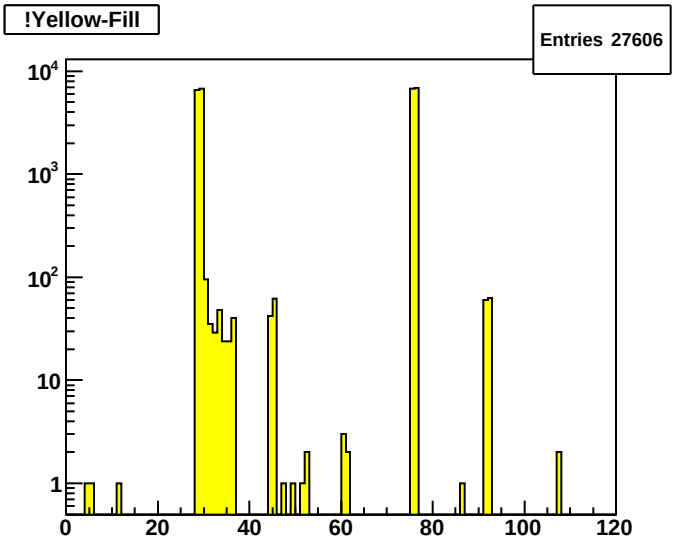

DAQ10k HT bits
Entries 61558

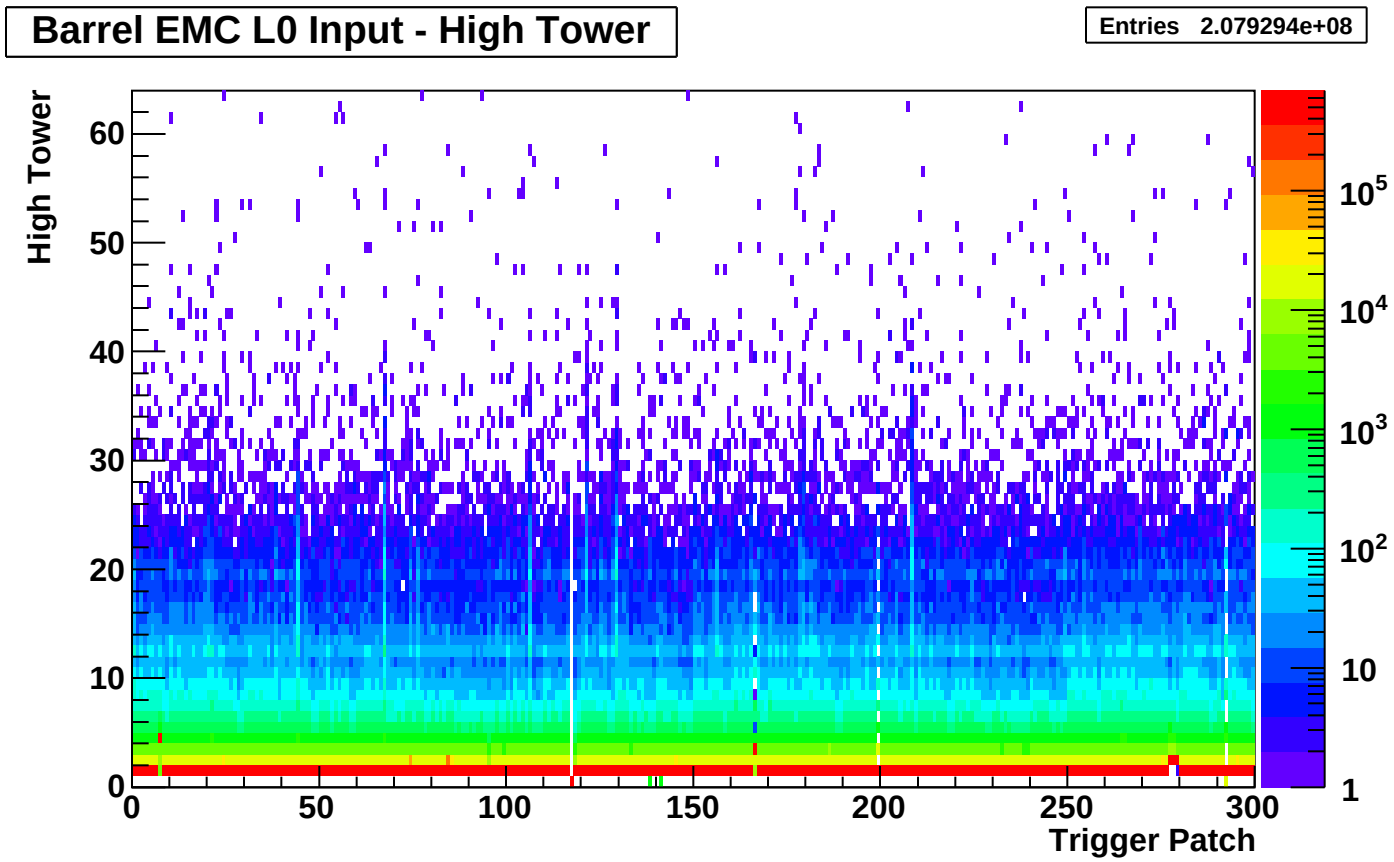

DAQ10k HT bits errors
Entries 23

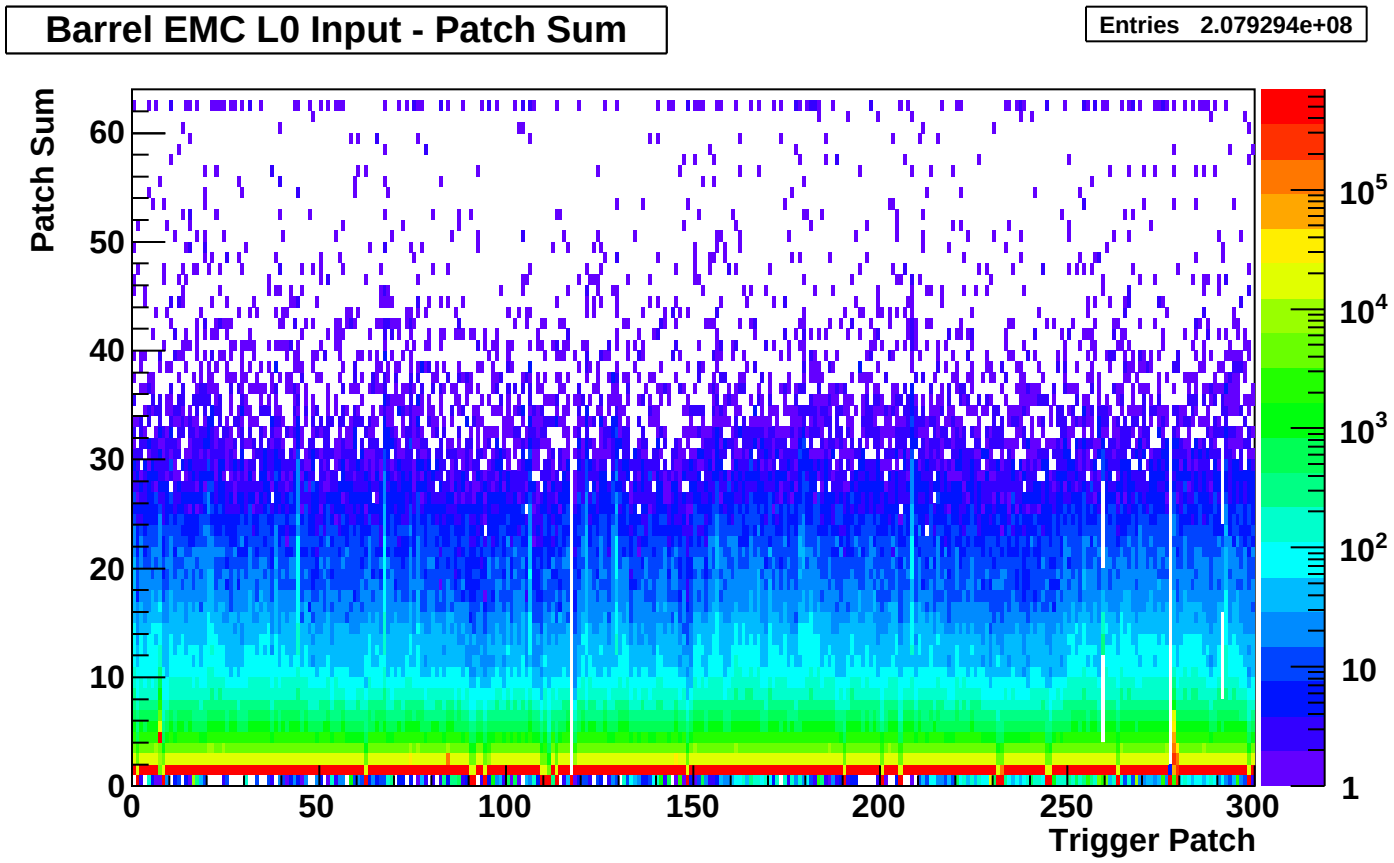

TPC Readout Mask (simulated)
Entries 108984

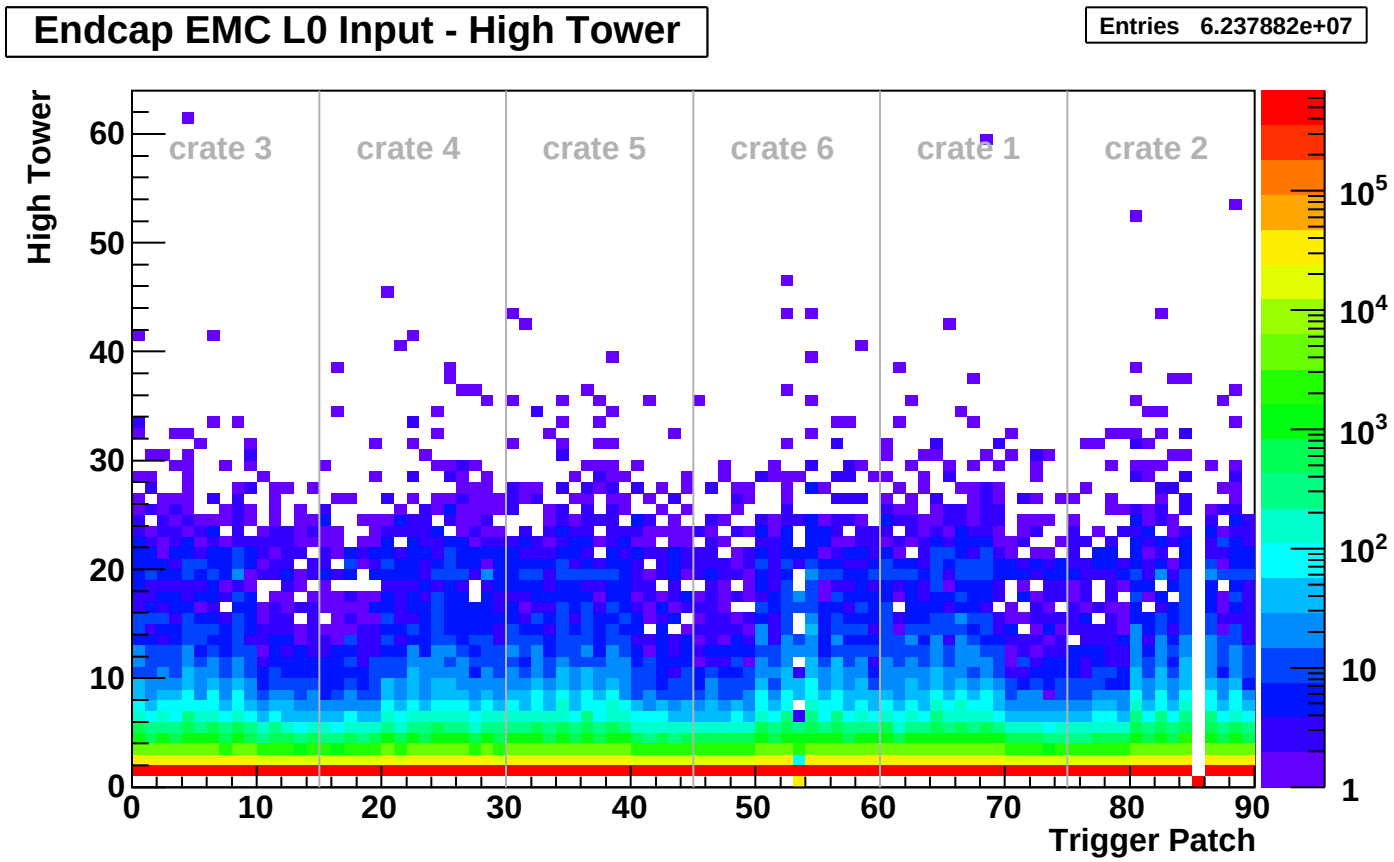

BunchId7Bit (all events)
Entries 693098

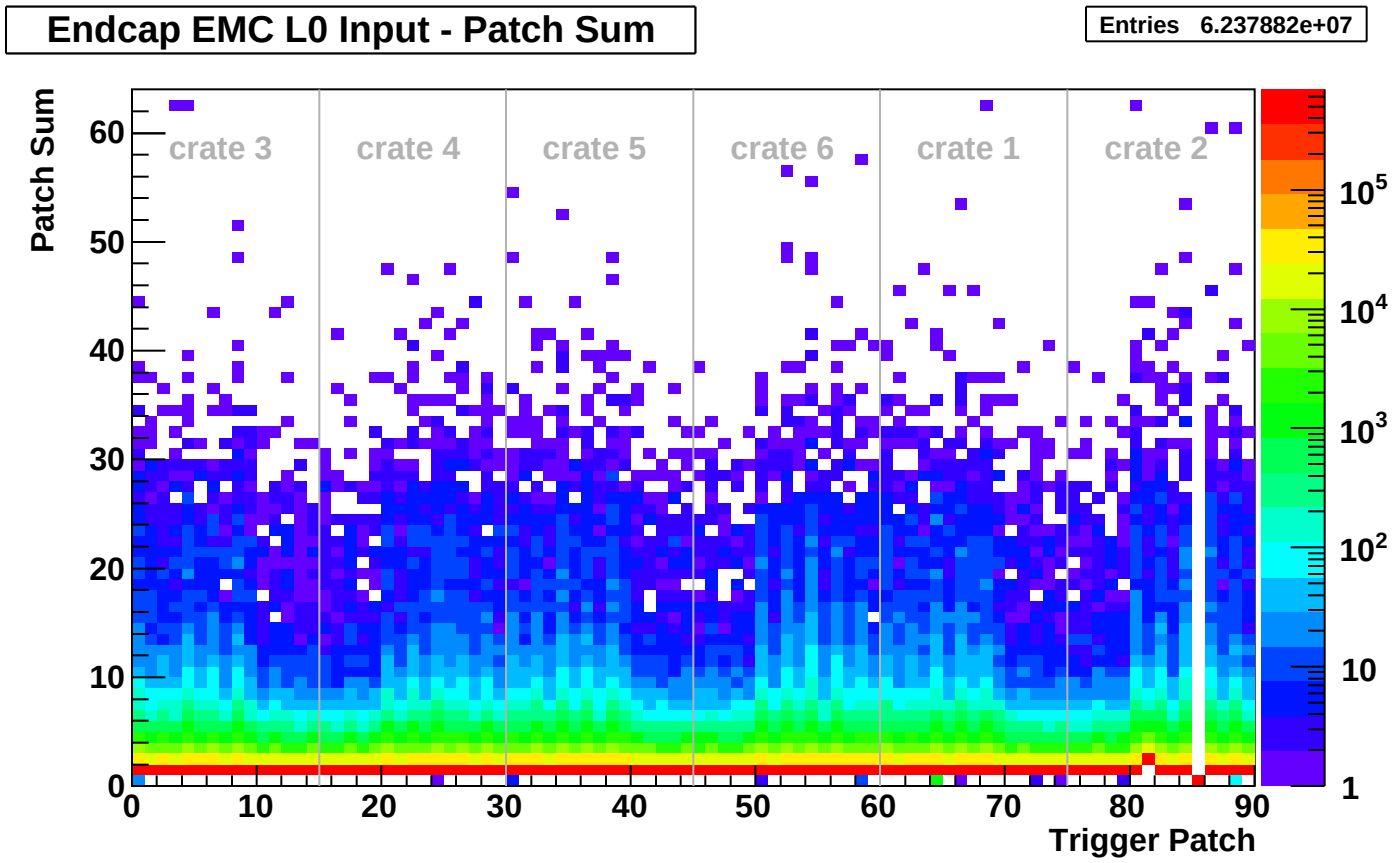

!Blue-Fill
Entries 290

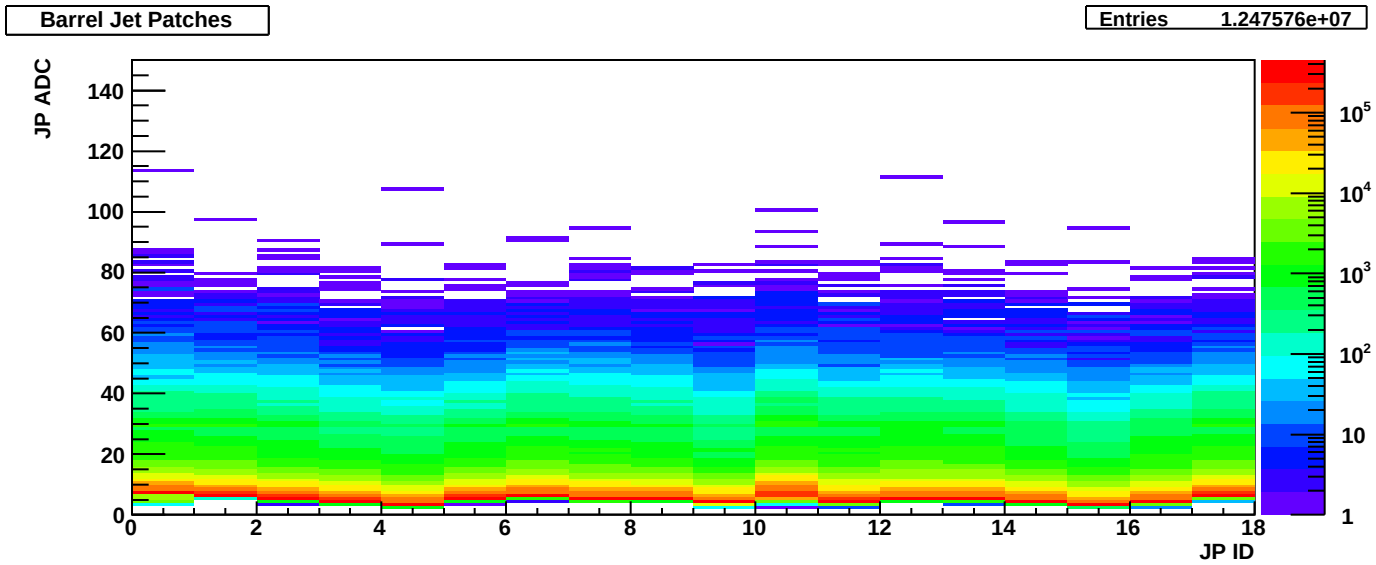

!Yellow-Fill
Entries 27606

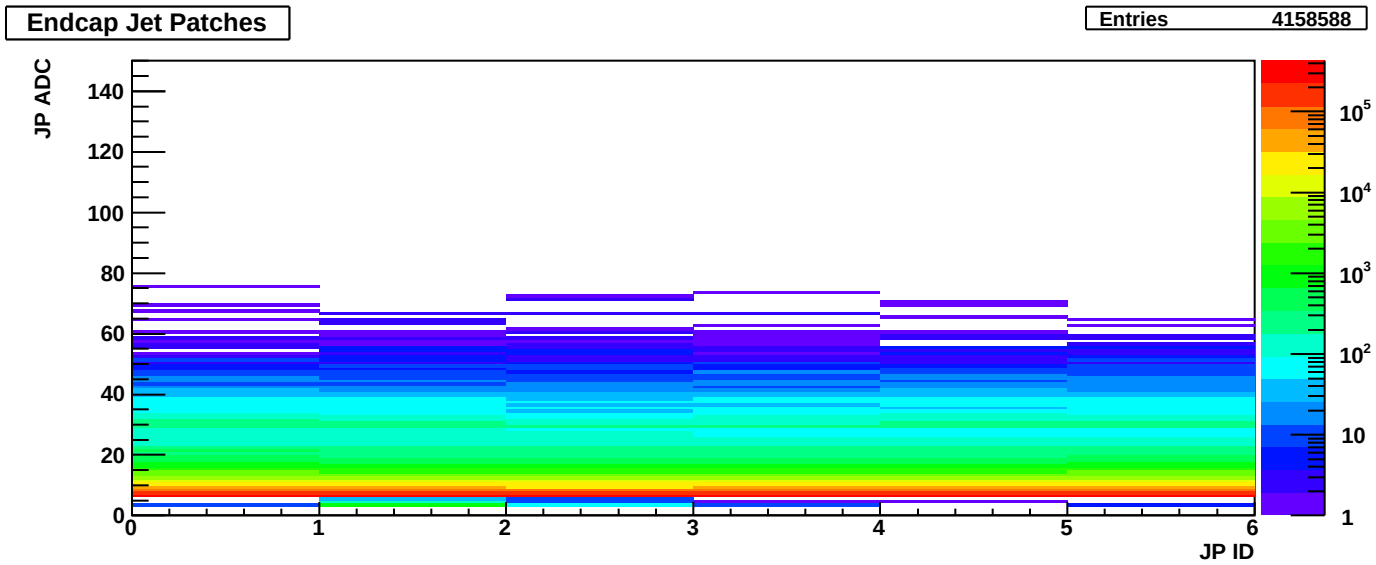

Barrel EMC L0 Input - High Tower
Entries 2.079294e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

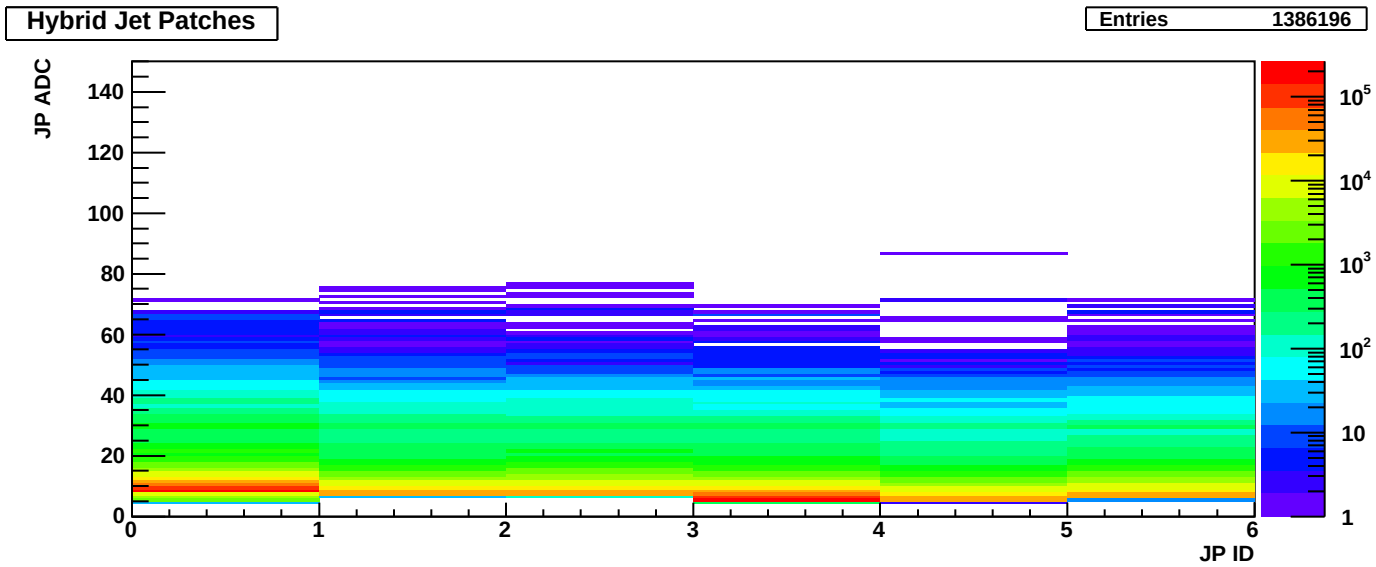

Barrel EMC L0 Input - Patch Sum
Entries 2.079294e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

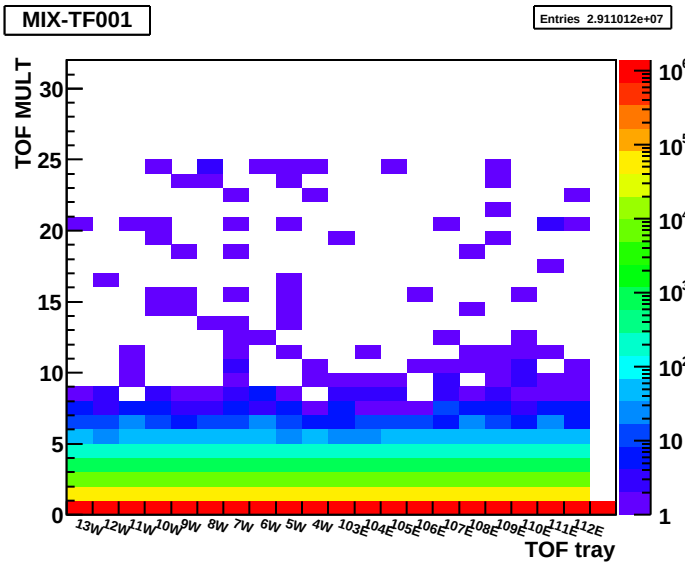

Endcap EMC L0 Input - High Tower
Entries 6.237882e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

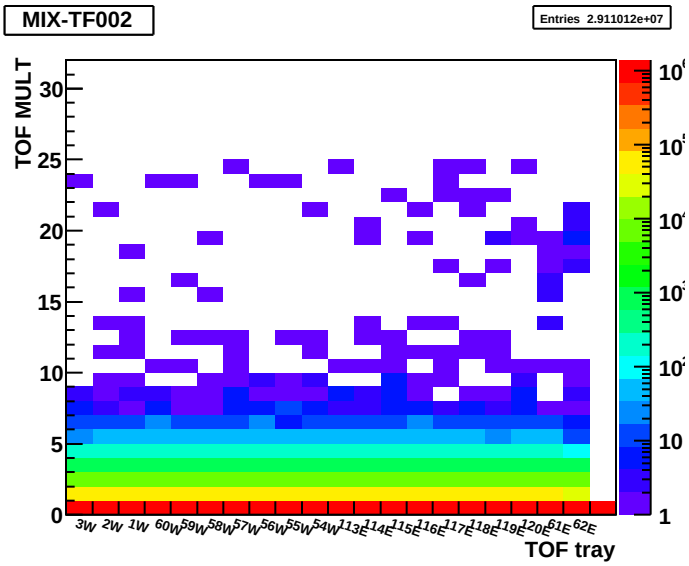

Endcap EMC L0 Input - Patch Sum
Entries 6.237882e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

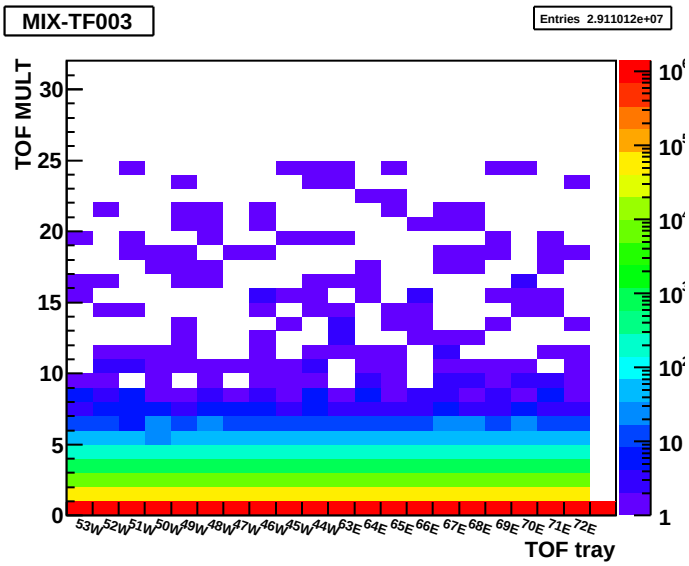

Barrel Jet Patches
Entries 1.247576e+07
JP ADC
JP ID

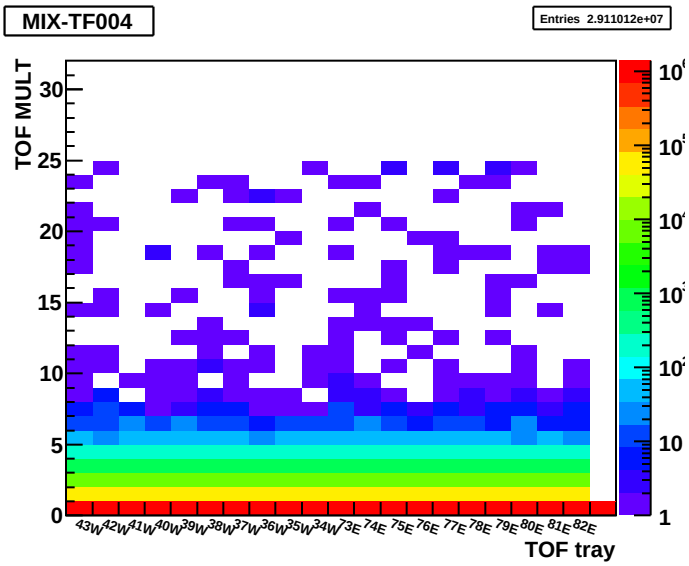

Endcap Jet Patches
Entries 4158588
JP ADC
JP ID

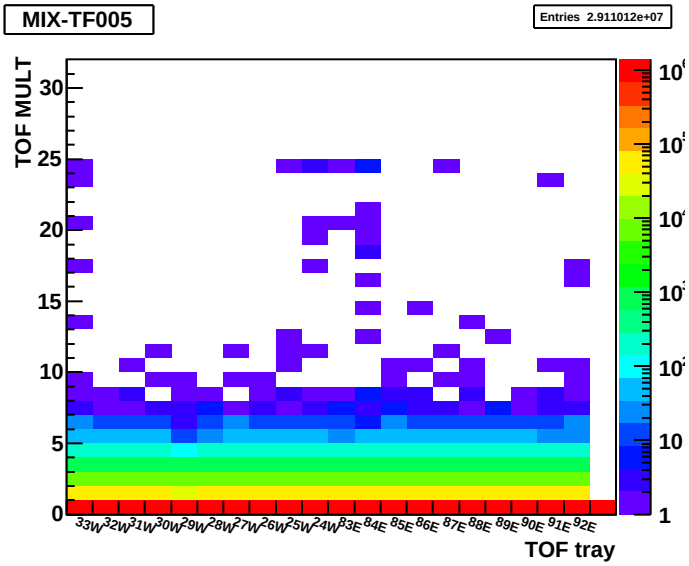

Hybrid Jet Patches
Entries 1386196
JP ADC
JP ID

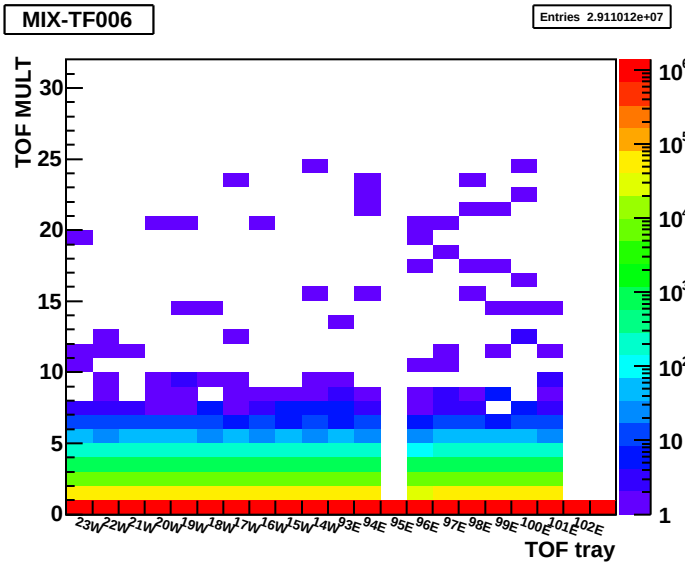

MIX-TF001
Entries 2.911012e+07
TOF MULT
TOF tray

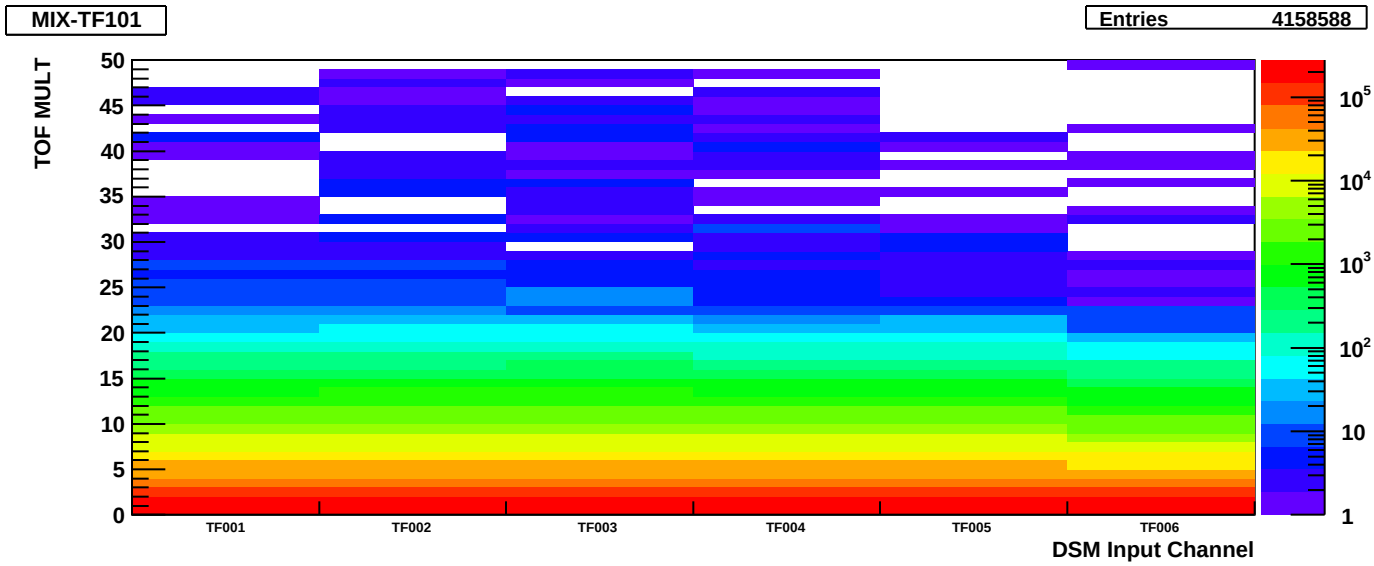

MIX-TF002
Entries 2.911012e+07
TOF MULT
TOF tray

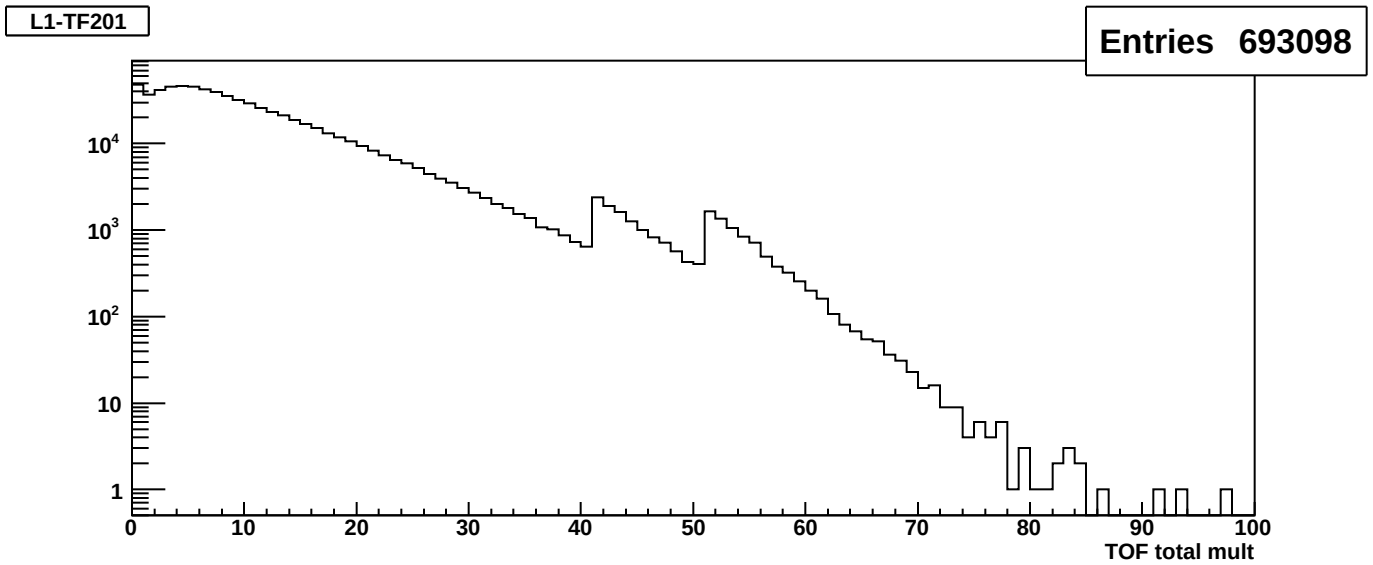

MIX-TF003
Entries 2.911012e+07
TOF MULT
TOF tray

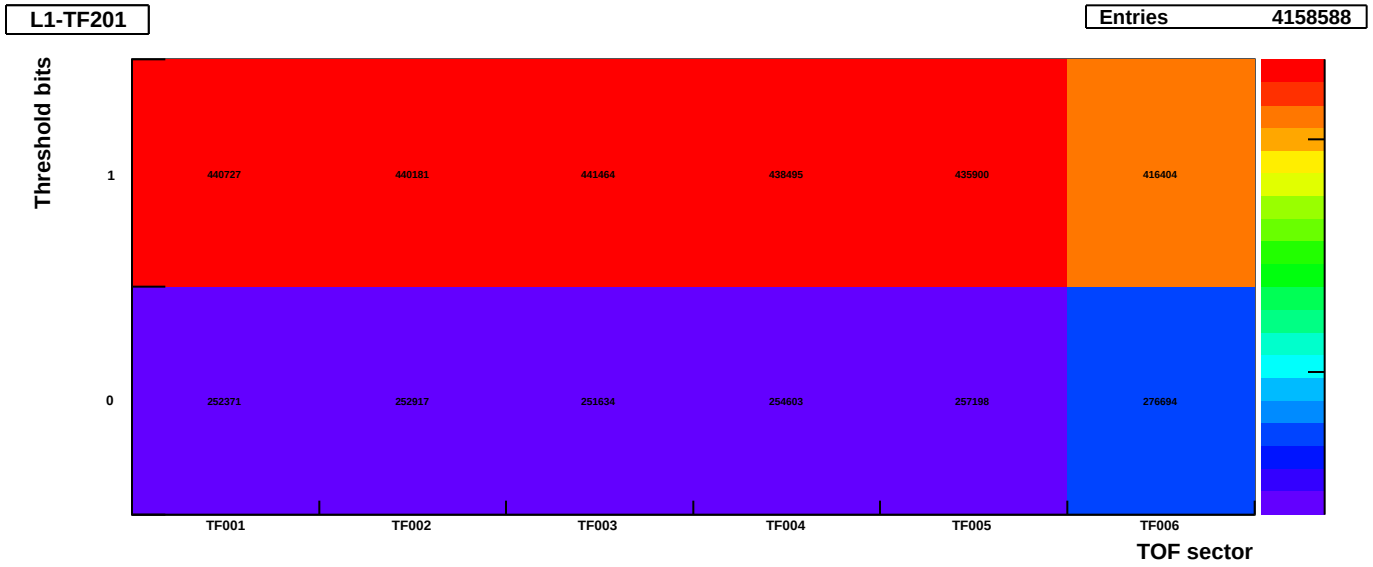

MIX-TF004
Entries 2.911012e+07
TOF MULT
TOF tray

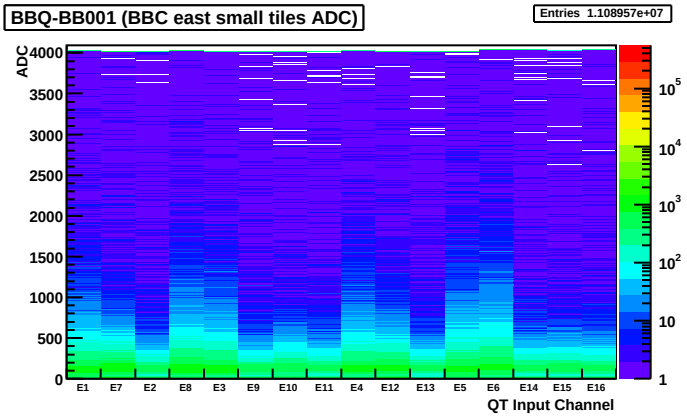

MIX-TF005
Entries 2.911012e+07
TOF MULT
TOF tray

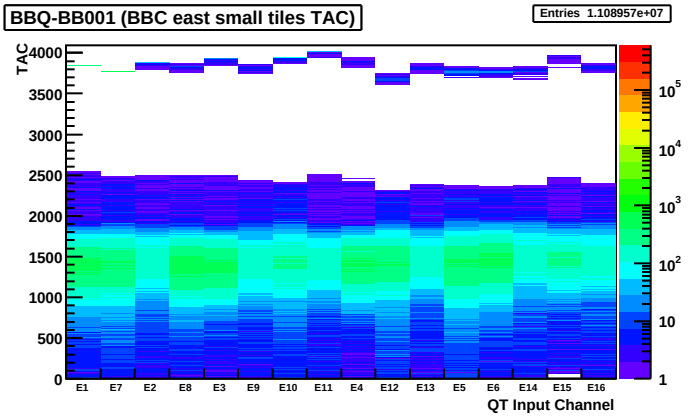

MIX-TF006
Entries 2.911012e+07
TOF MULT
TOF tray

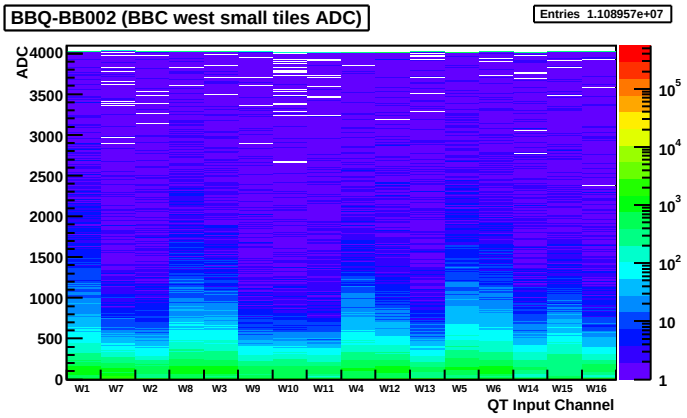

MIX-TF101
Entries 4158588
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

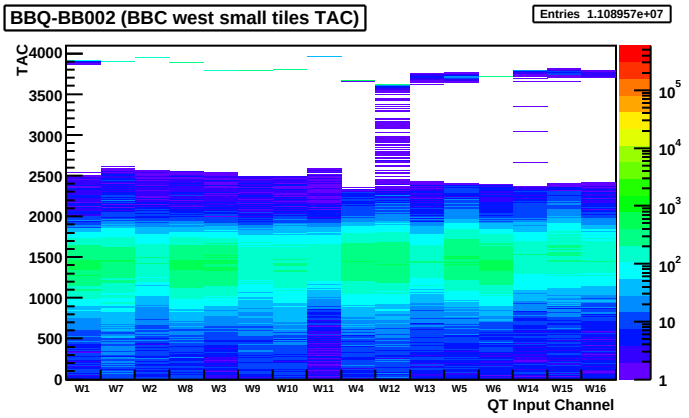

L1-TF201
Entries 693098
TOF total mult

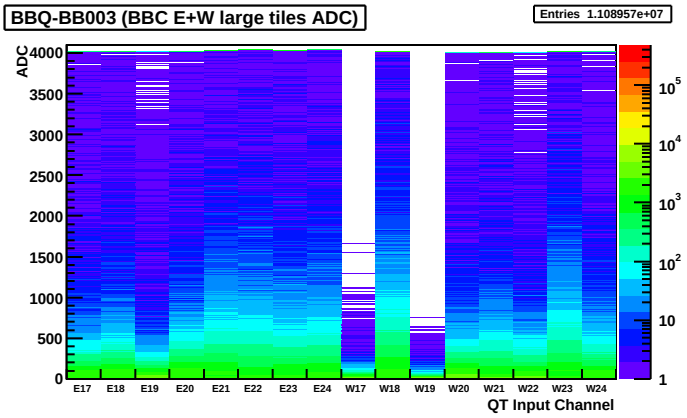

L1-TF201
Entries 4158588
Threshold bits
440727
440181
441464
438495
435900
416404
252371
252917
251634
254603
257198
276694
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

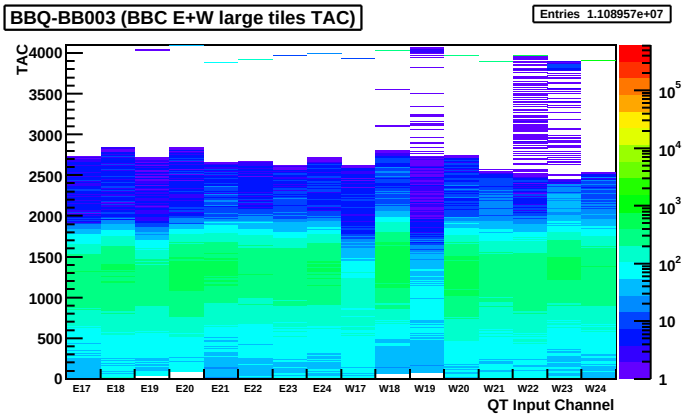

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.108957e+07
ADC
QT Input Channel

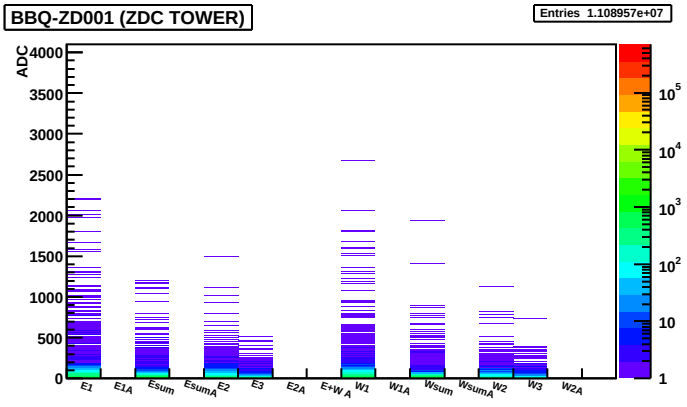

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.108957e+07
TAC
QT Input Channel

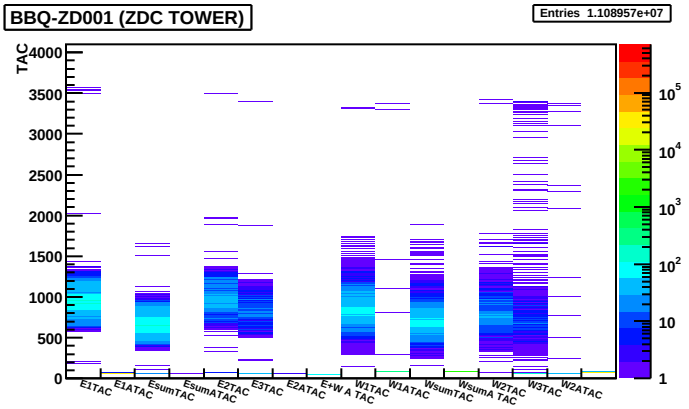

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.108957e+07
ADC
QT Input Channel

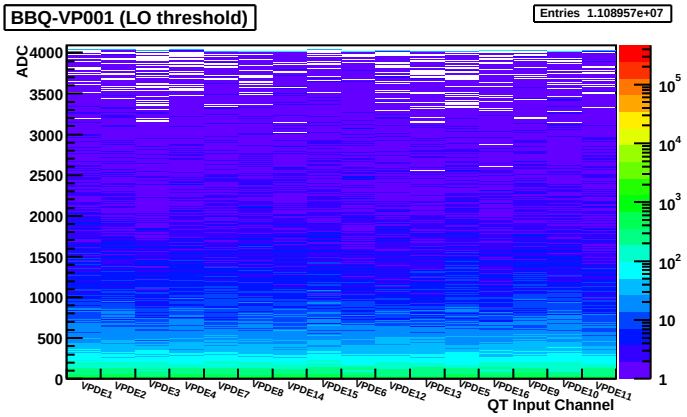

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.108957e+07
TAC
QT Input Channel

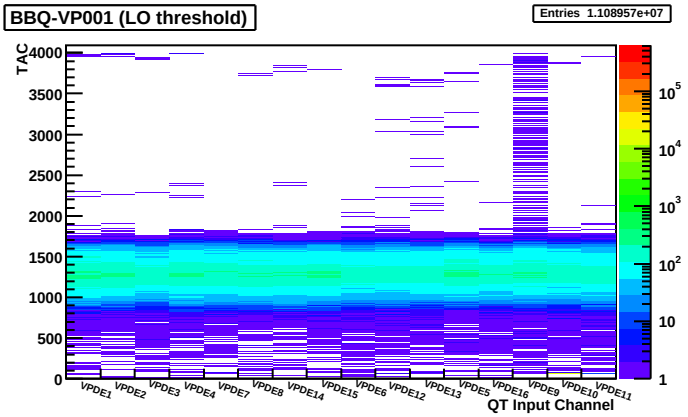

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.108957e+07
ADC
QT Input Channel

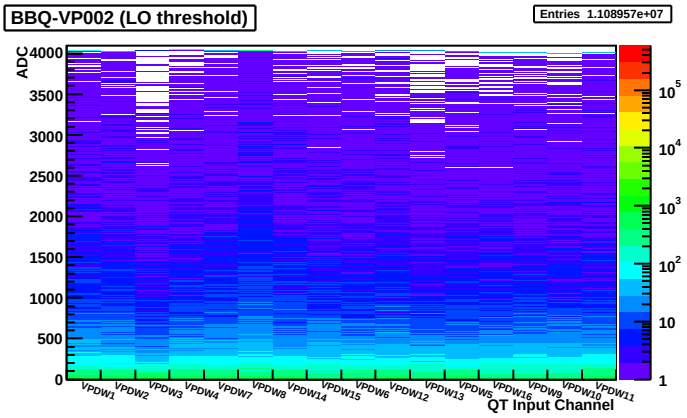

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.108957e+07
TAC
QT Input Channel

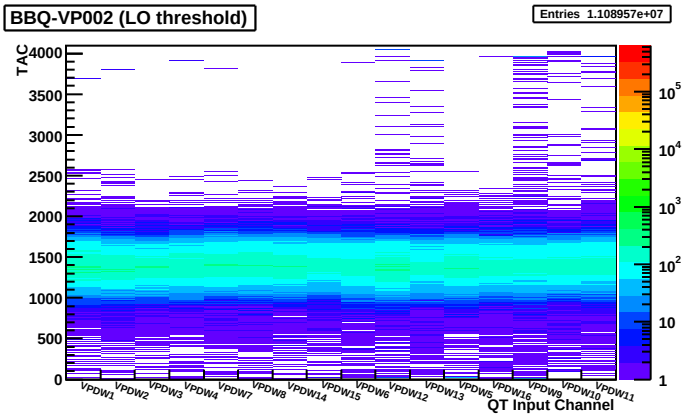

BBQ-ZD001 (ZDC TOWER)
Entries 1.108957e+07
ADC

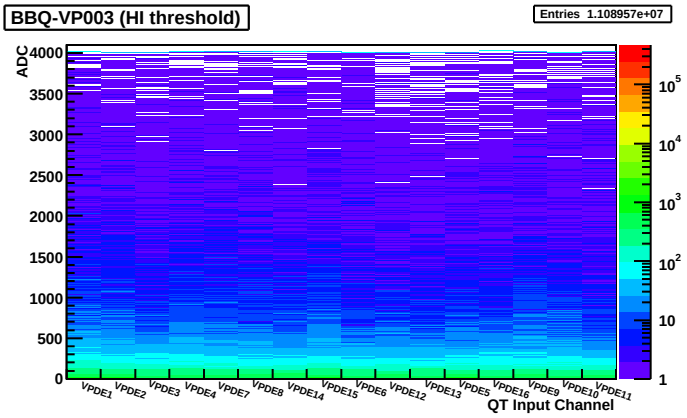

BBQ-ZD001 (ZDC TOWER)
Entries 1.108957e+07
TAC

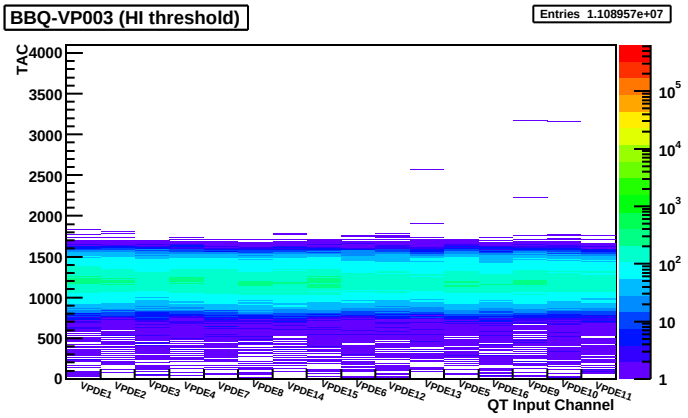

BBQ-VP001 (LO threshold)
Entries 1.108957e+07
ADC
QT Input Channel

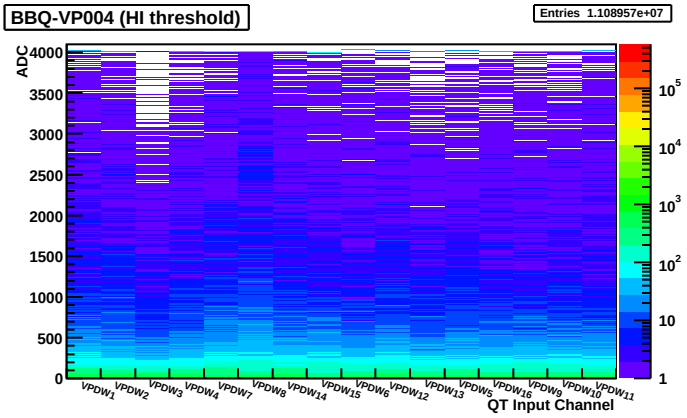

BBQ-VP001 (LO threshold)
Entries 1.108957e+07
TAC
QT Input Channel

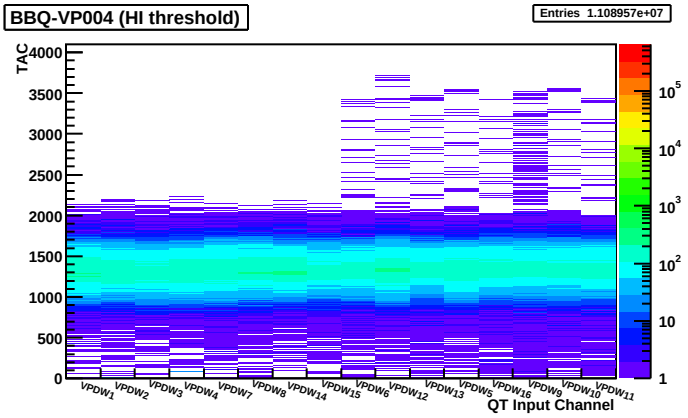

BBQ-VP002 (LO threshold)
Entries 1.108957e+07
ADC
QT Input Channel

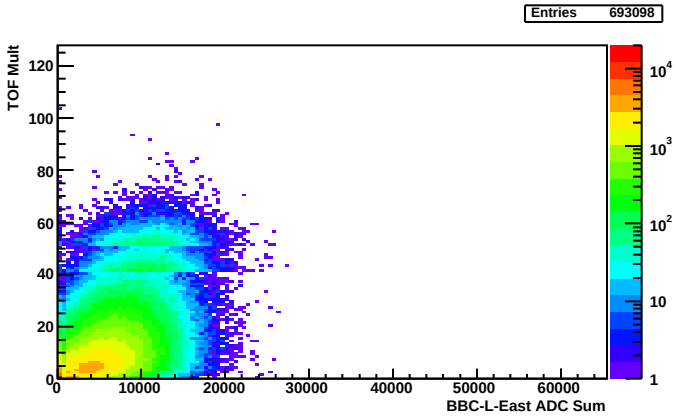

BBQ-VP002 (LO threshold)
Entries 1.108957e+07
TAC
QT Input Channel

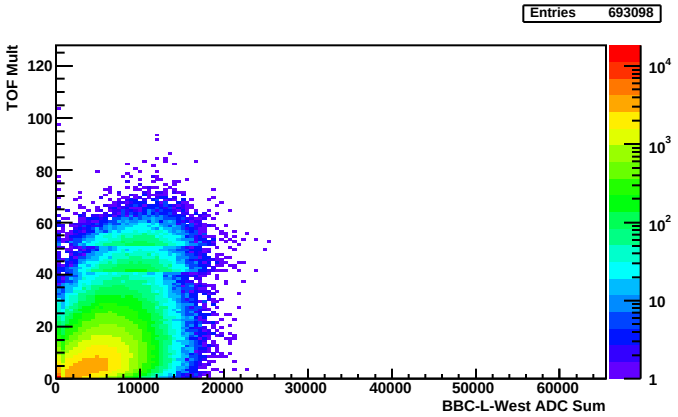

BBQ-VP003 (HI threshold)
Entries 1.108957e+07
ADC
QT Input Channel

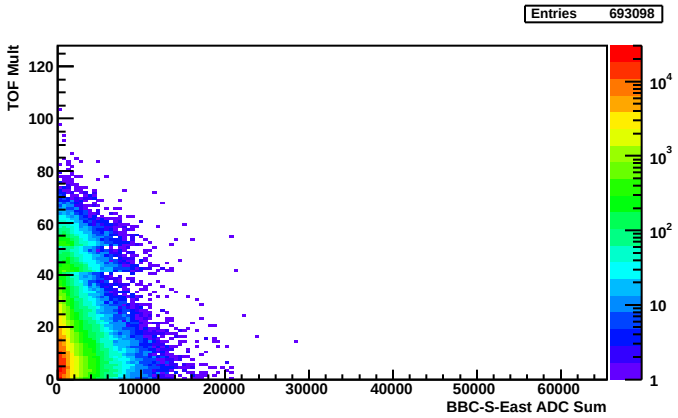

BBQ-VP003 (HI threshold)
Entries 1.108957e+07
TAC
QT Input Channel

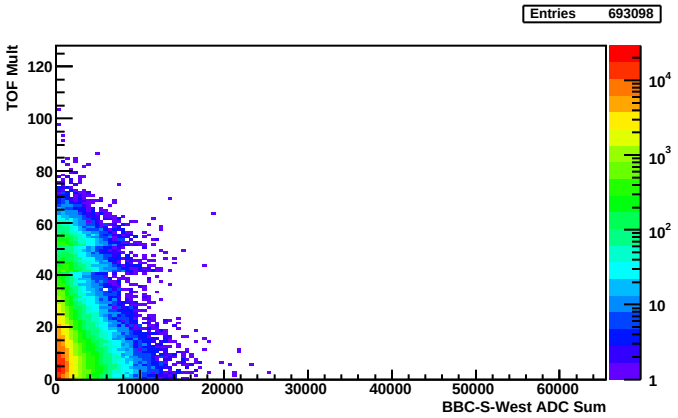

BBQ-VP004 (HI threshold)
Entries 1.108957e+07
ADC
QT Input Channel

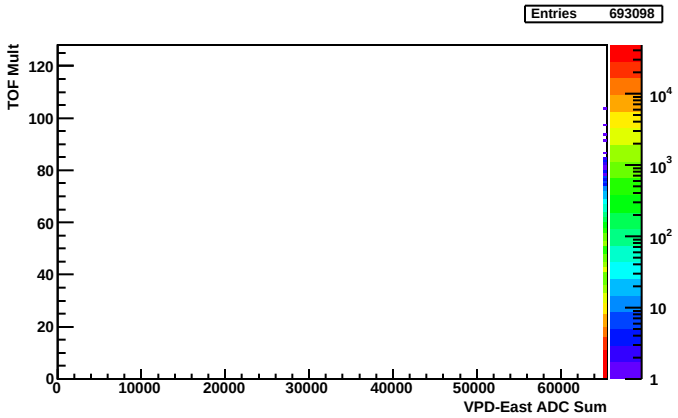

BBQ-VP004 (HI threshold)
Entries 1.108957e+07
TAC
QT Input Channel

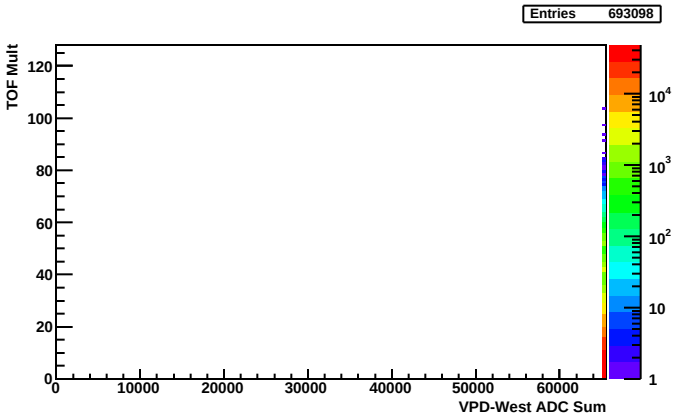

Entries 693098
TOF Mult
BBC-L-East ADC Sum

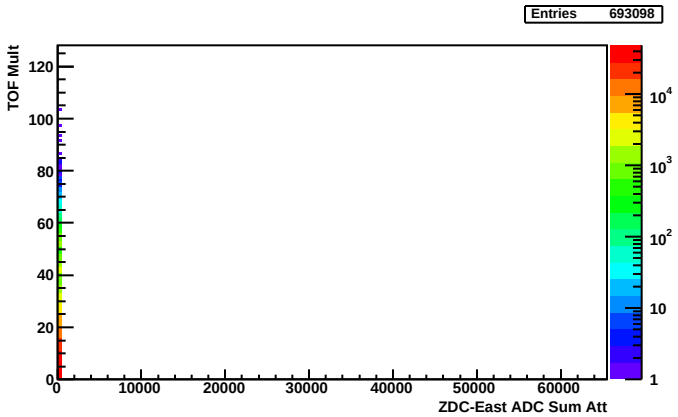

Entries 693098
TOF Mult
BBC-L-West ADC Sum

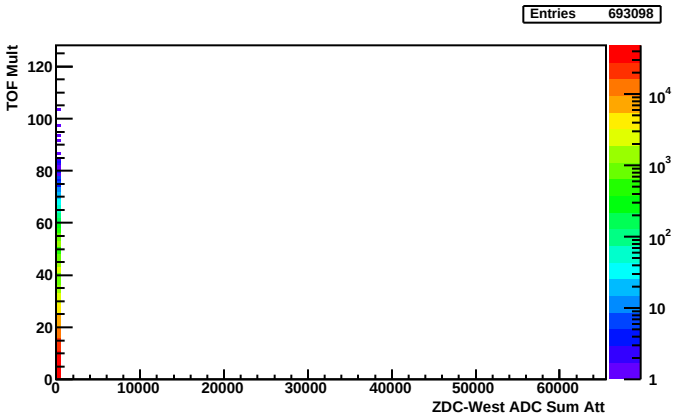

Entries 693098
TOF Mult
BBC-S-East ADC Sum

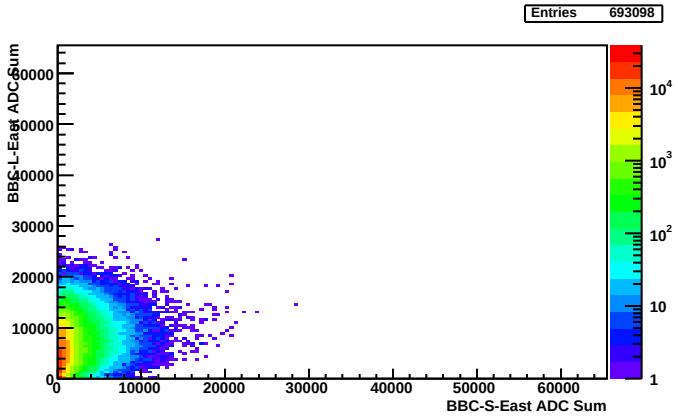

Entries 693098
TOF Mult
BBC-S-West ADC Sum

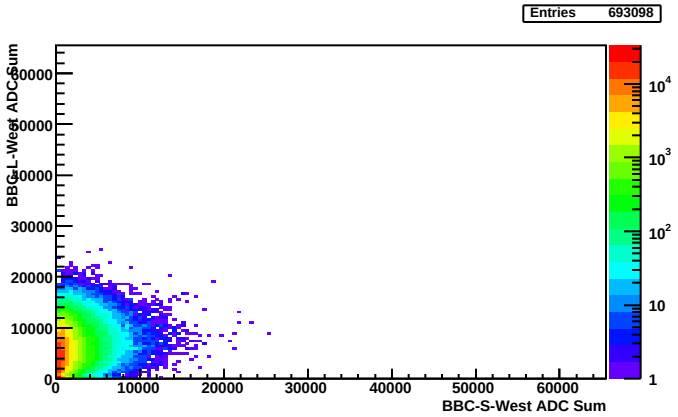

Entries 693098
TOF Mult
VPD-East ADC Sum

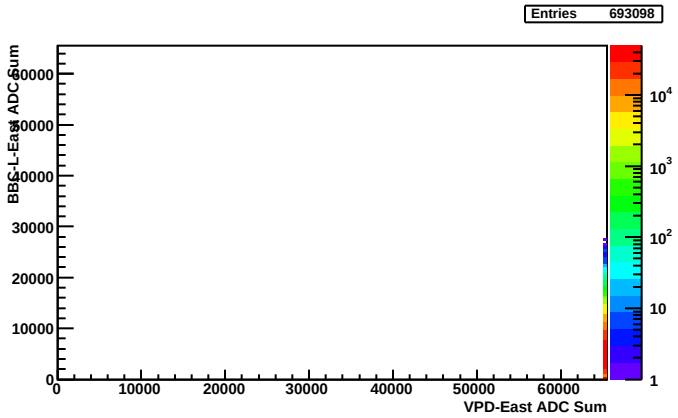

Entries 693098
TOF Mult
VPD-West ADC Sum

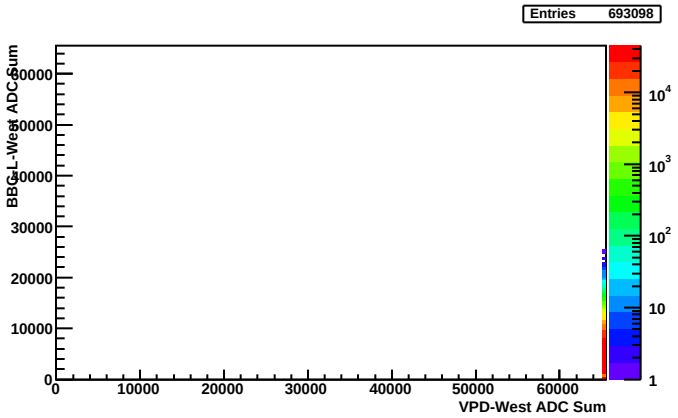

Entries 693098
TOF Mult
ZDC-East ADC Sum Att

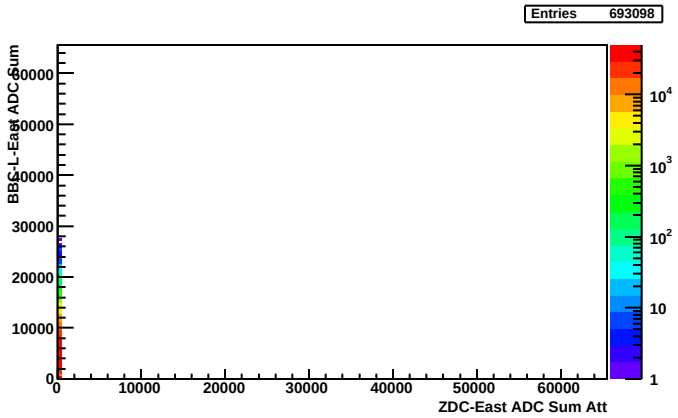

Entries 693098
TOF Mult
ZDC-West ADC Sum Att

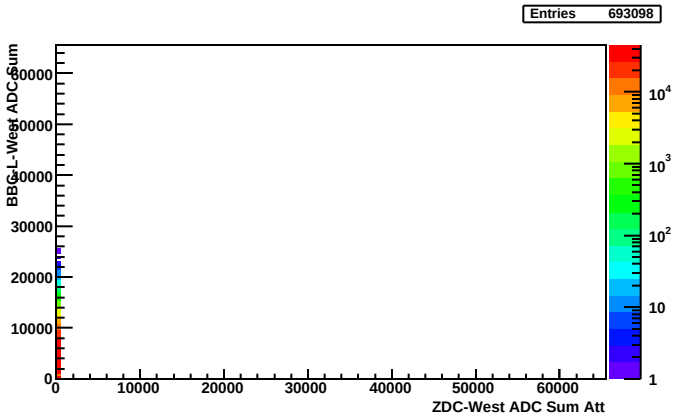

Entries 693098
BBC-L-East ADC Sum
BBC-S-East ADC Sum

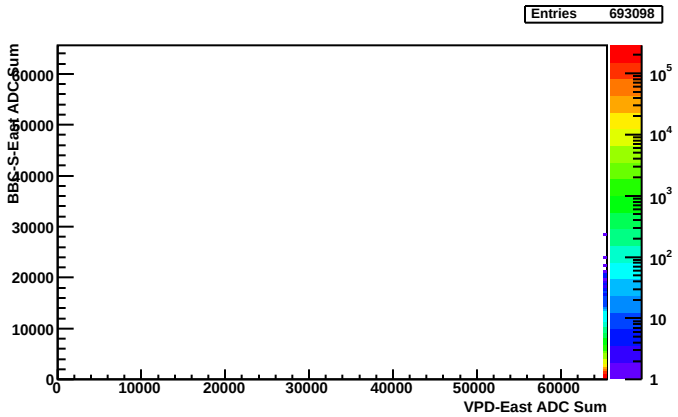

Entries 693098
BBC-L-West ADC Sum
BBC-S-West ADC Sum

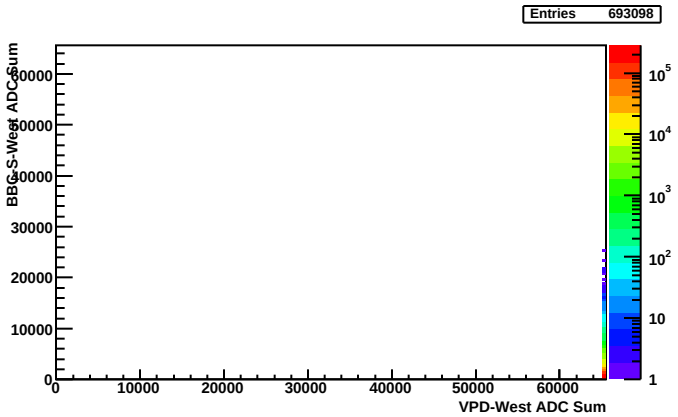

Entries 693098
BBC-L-East ADC Sum
VPD-East ADC Sum

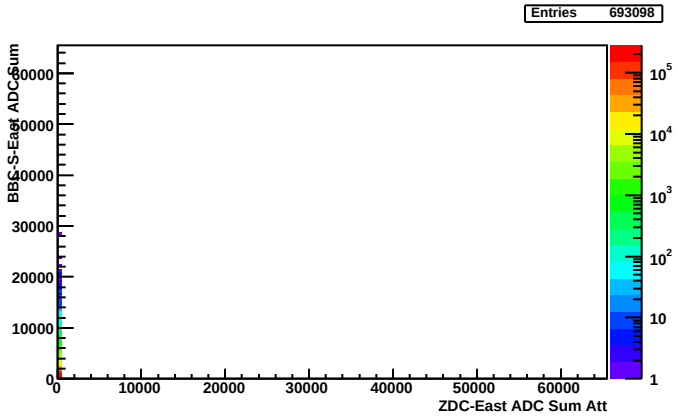

Entries 693098
BBC-L-West ADC Sum
VPD-West ADC Sum

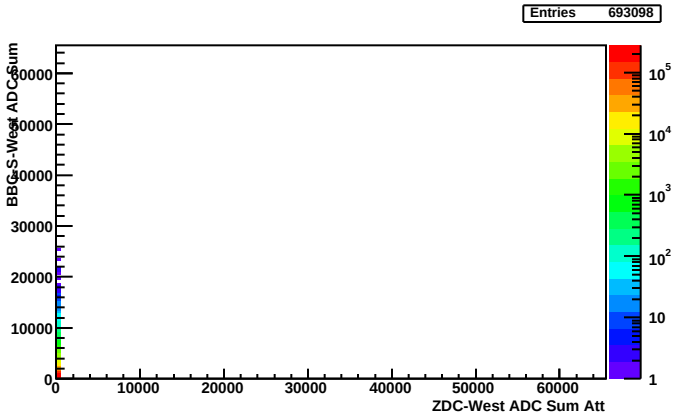

Entries 693098
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

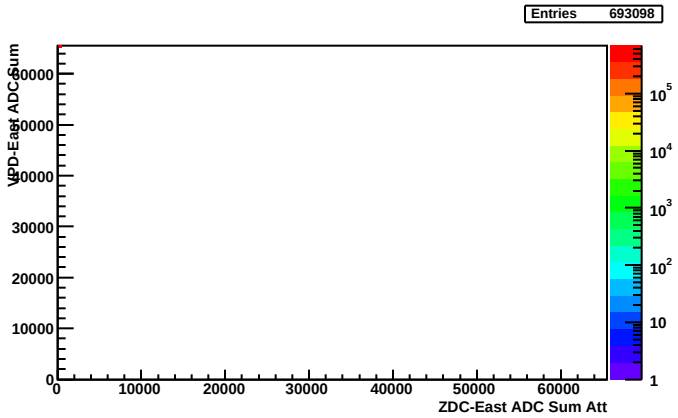

Entries 693098
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

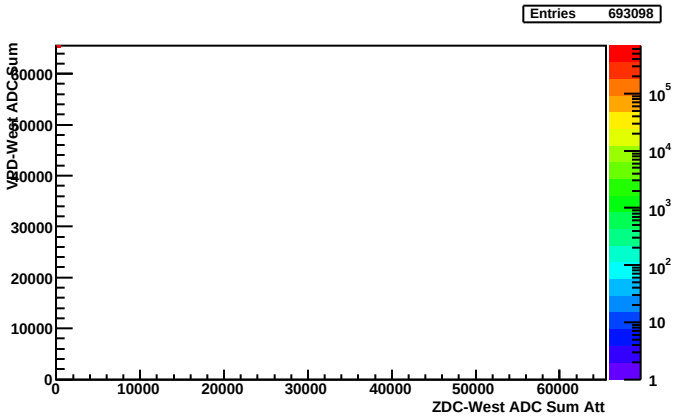

Entries 693098
BBC-S-East ADC Sum
VPD-East ADC Sum

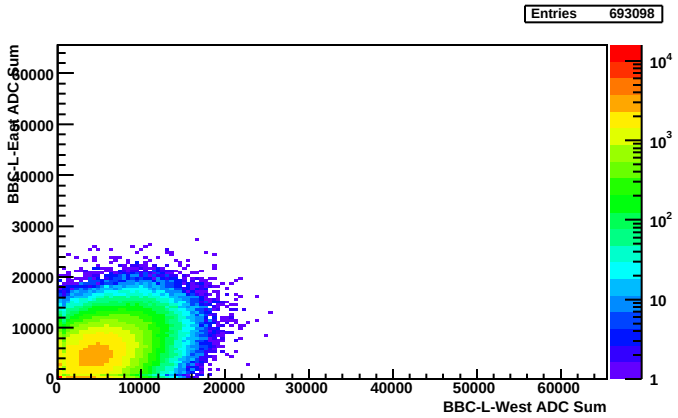

Entries 693098
BBC-S-West ADC Sum
VPD-West ADC Sum

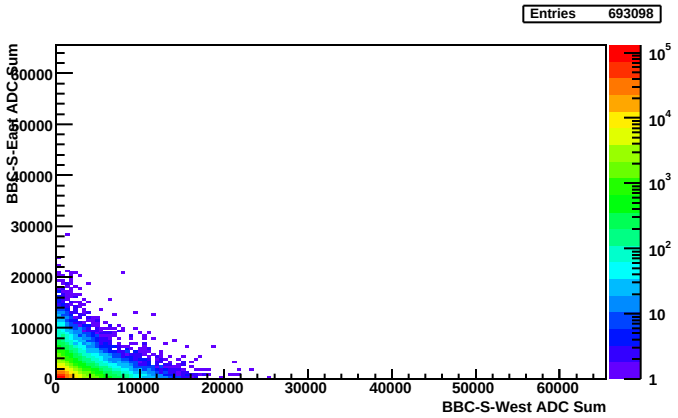

Entries 693098
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

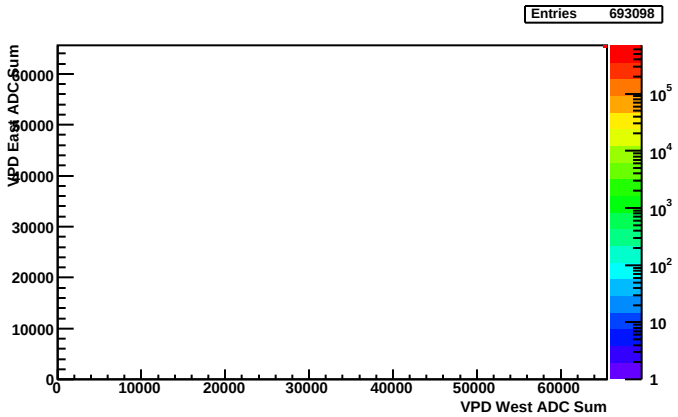

Entries 693098
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

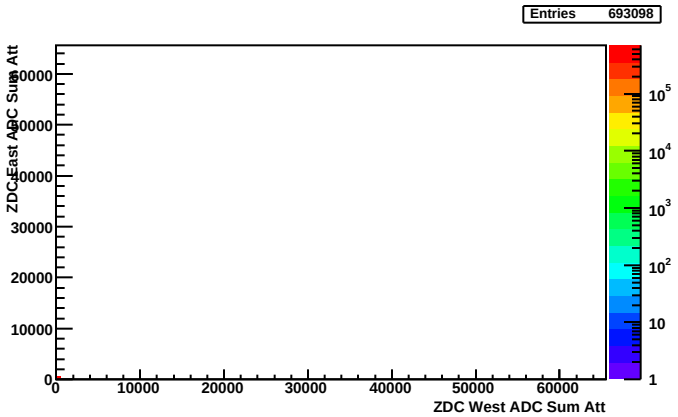

Entries 693098
VPD-East ADC Sum
ZDC-East ADC Sum Att

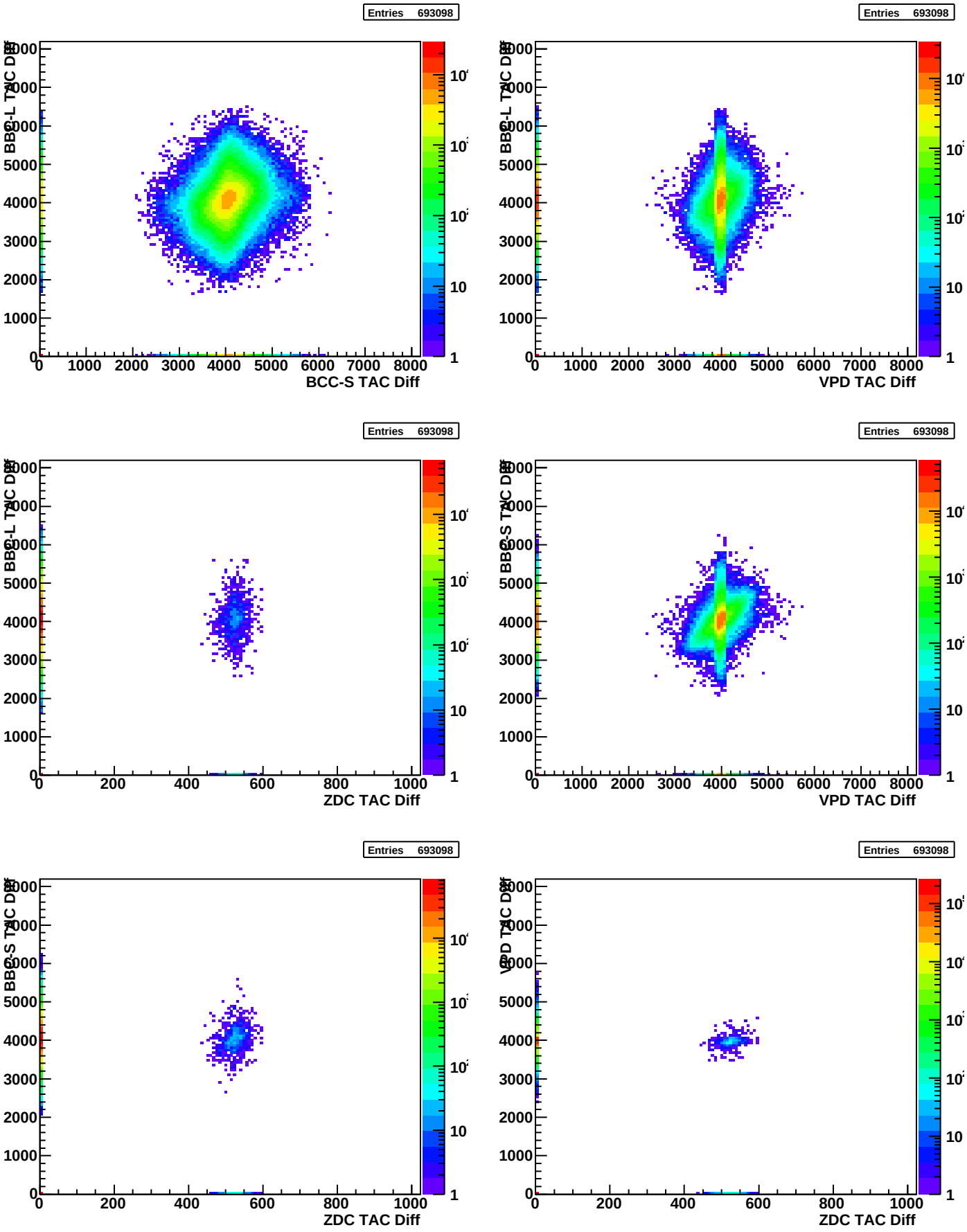

Entries 693098
VPD-West ADC Sum
ZDC-West ADC Sum Att

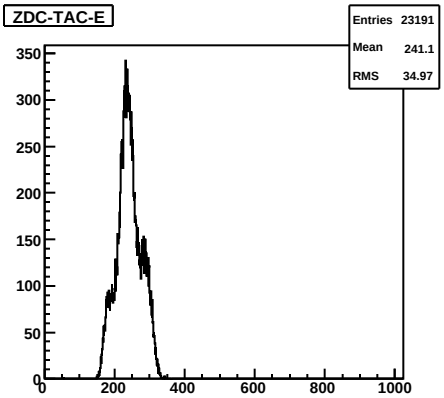

Entries 693098
BBC-L-East ADC Sum
BBC-L-West ADC Sum

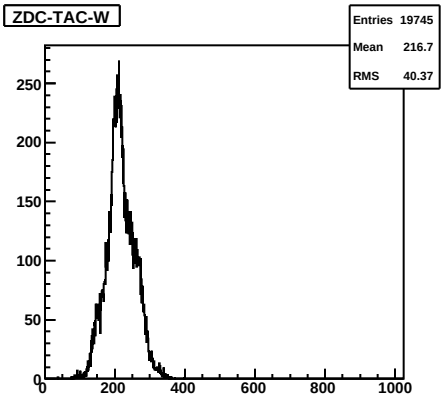

Entries 693098
BBC-S-East ADC Sum
BBC-S-West ADC Sum

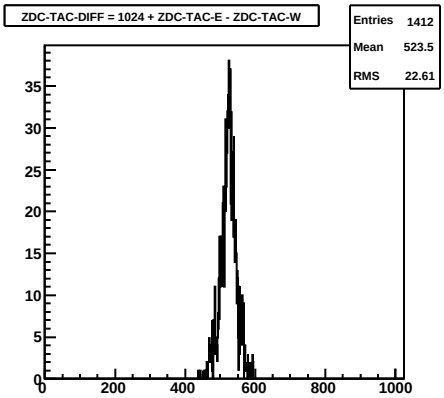

Entries 693098
VPD East ADC Sum
VPD West ADC Sum

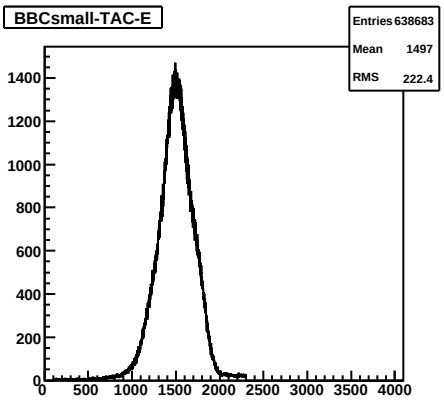

Entries 693098
ZDC East ADC Sum Att
ZDC West ADC Sum Att

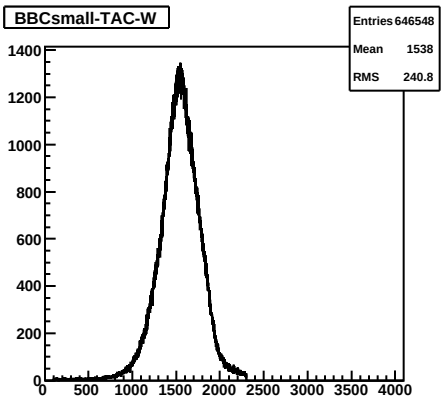

Entries 693098
BBC-L TAC Diff
BCC-S TAC Diff
Entries 693098
BBC-L TAC Diff
VPD TAC Diff
Entries 693098
BBC-L TAC Diff
ZDC TAC Diff
Entries 693098
BBC-S TAC Diff
VPD TAC Diff
Entries 693098
BBC-S TAC Diff
ZDC TAC Diff
Entries 693098
VPD TAC Diff
ZDC TAC Diff

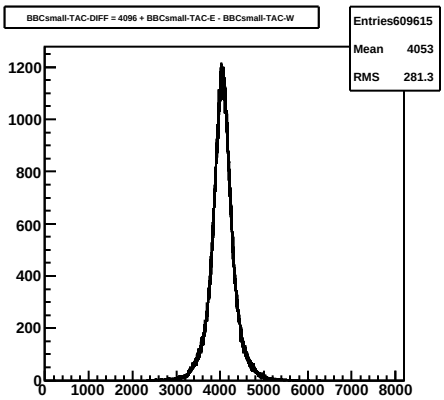

ZDC-TAC-E
Entries 23191
Mean 241.1
RMS 34.97

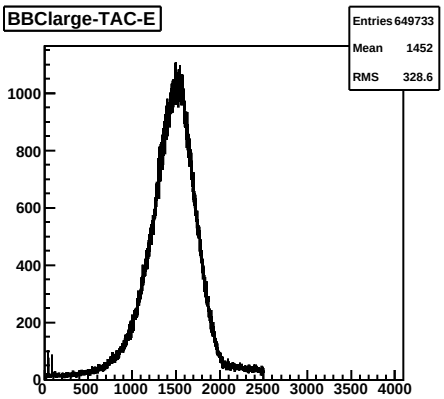

ZDC-TAC-W
Entries 19745
Mean 216.7
RMS 40.37

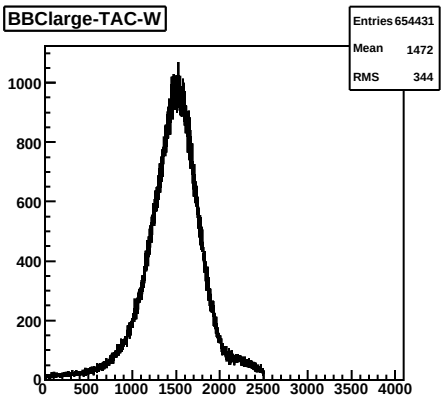

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1412
Mean 523.5
RMS 22.61

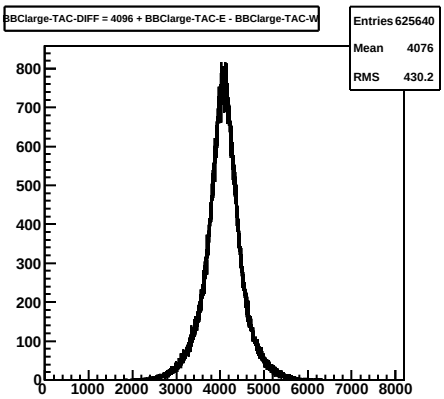

BBCsmall-TAC-E
Entries 638683
Mean 1497
RMS 222.4

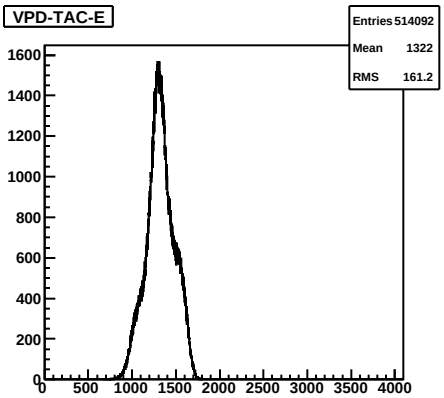

BBCsmall-TAC-W
Entries 646548
Mean 1538
RMS 240.8

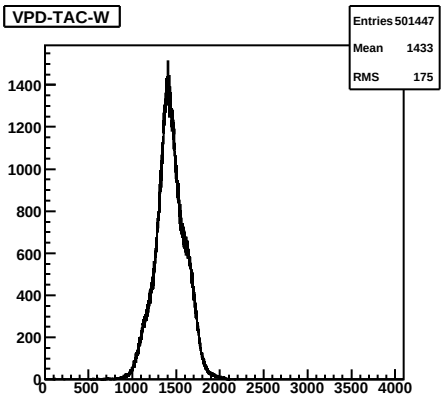

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 609615
Mean 4053
RMS 281.3

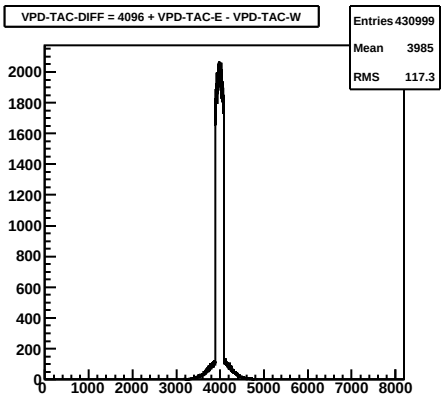

BBClarge-TAC-E
Entries 649733
Mean 1452
RMS 328.6

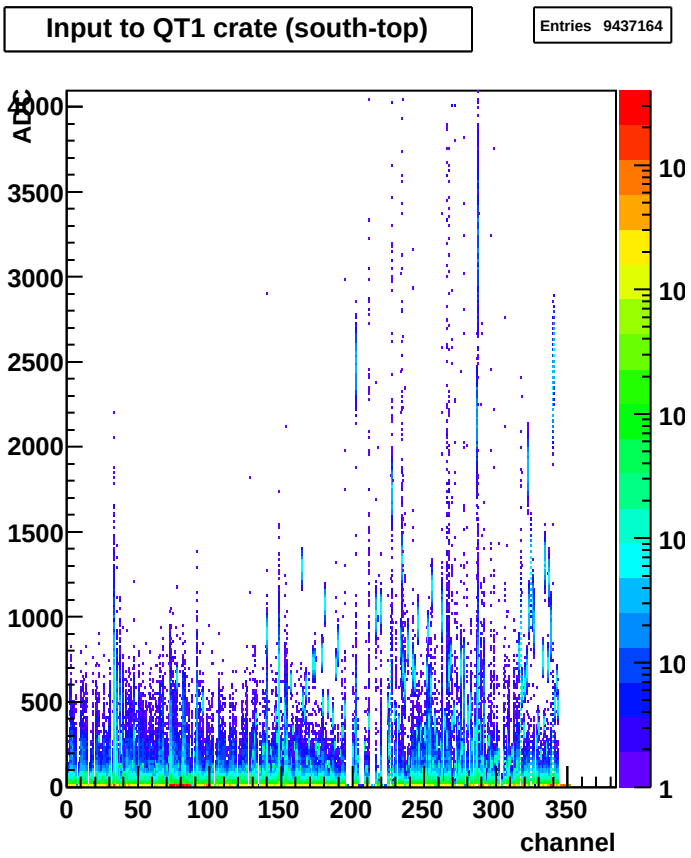

BBClarge-TAC-W
Entries 654431
Mean 1472
RMS 344

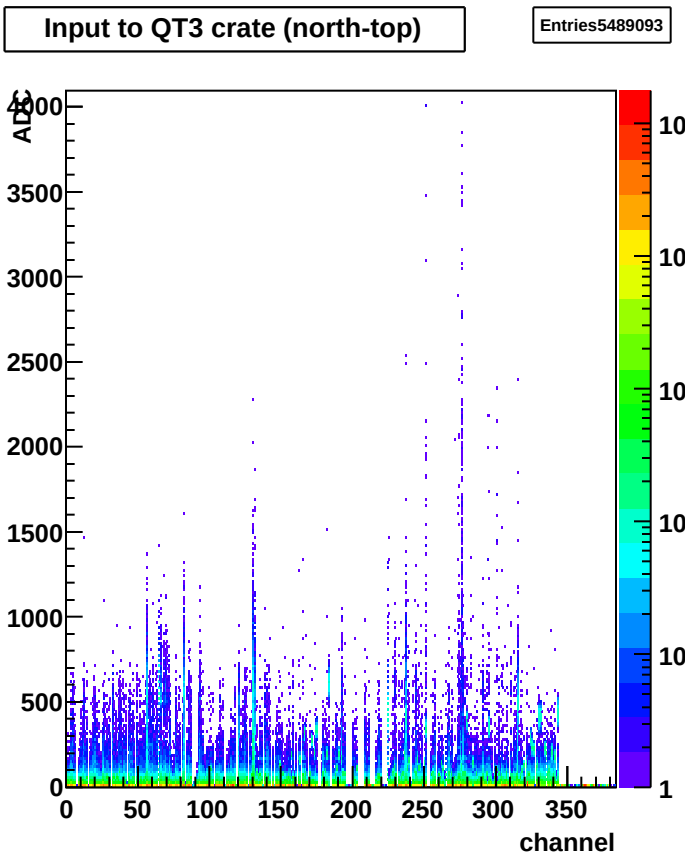

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 625640
Mean 4076
RMS 430.2

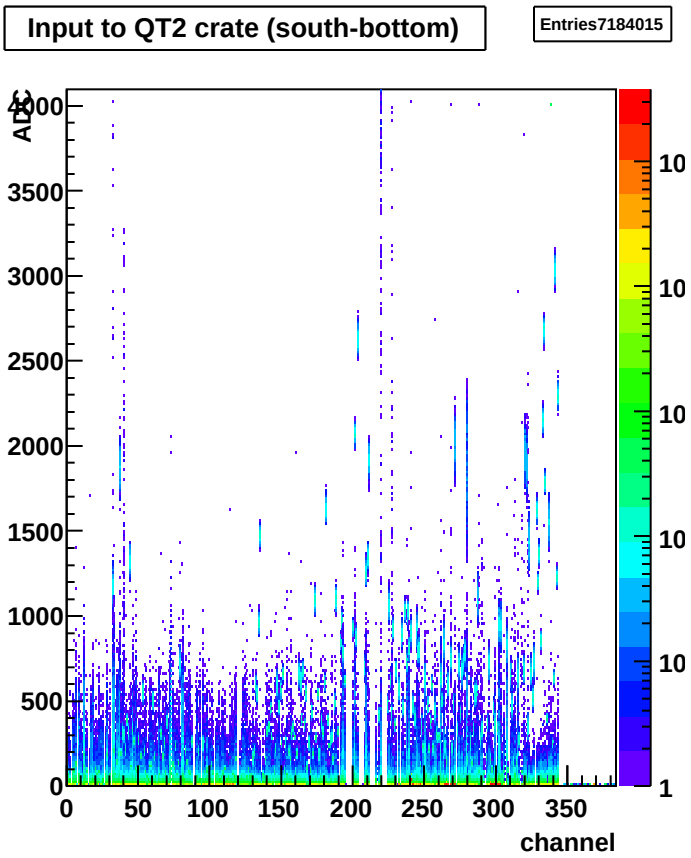

VPD-TAC-E
Entries 514092
Mean 1322
RMS 161.2

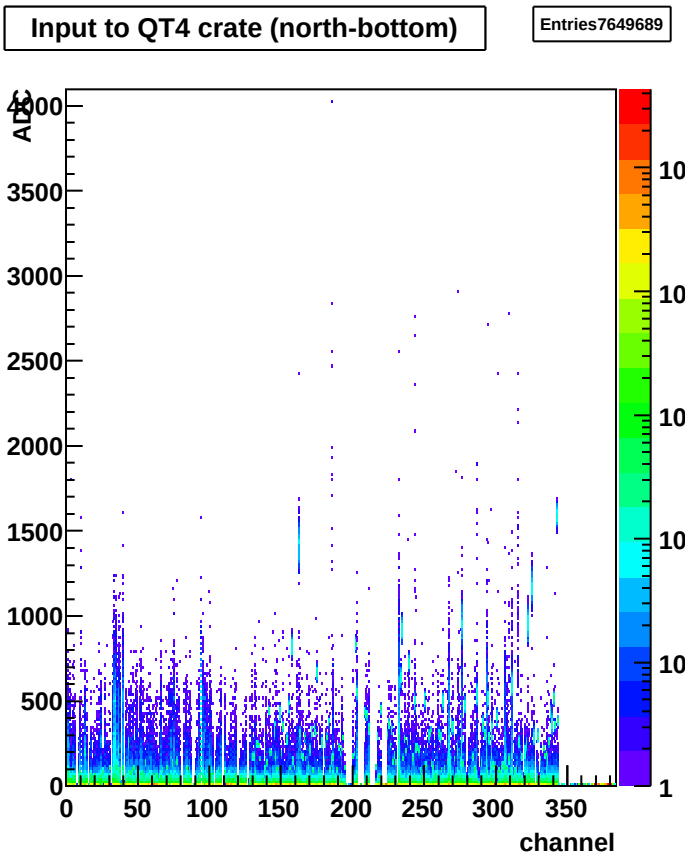

VPD-TAC-W
Entries 501447
Mean 1433
RMS 175

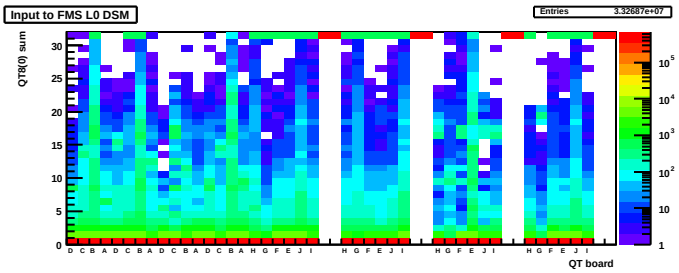

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 430999
Mean 3985
RMS 117.3

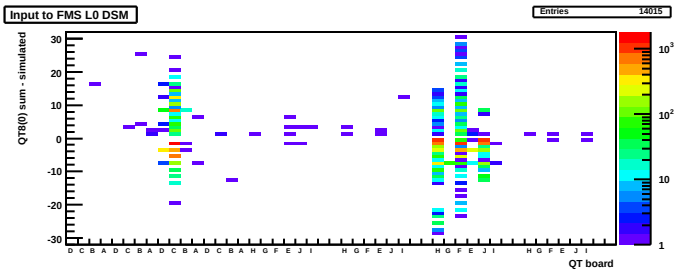

Input to QT1 crate (south-top)
Entries 9437164
ADC
channel

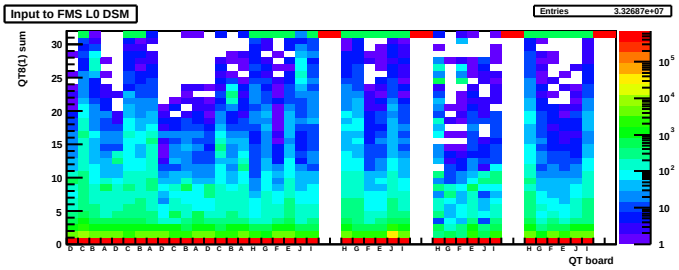

Input to QT3 crate (north-top)
Entries5489093
ADC
channel

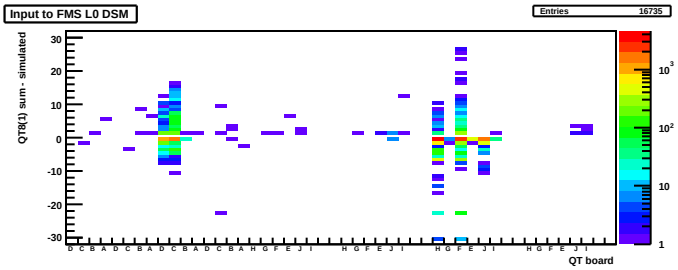

Input to QT2 crate (south-bottom)
Entries7184015
ADC
channel

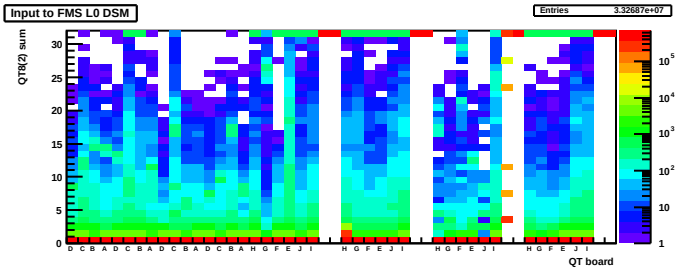

Input to QT4 crate (north-bottom)
Entries7649689
ADC
channel

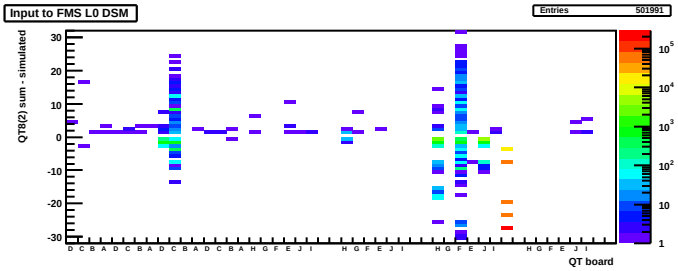

Input to FMS L0 DSM
Entries 3.32687e+07
QT8(0) sum
QT board

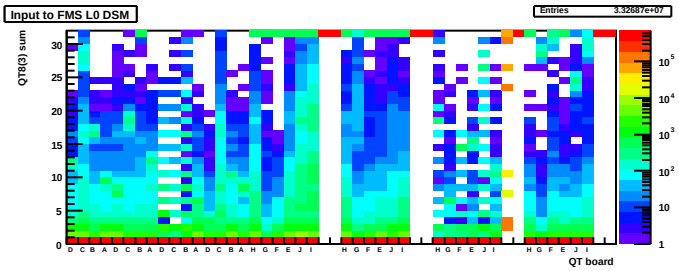

Input to FMS L0 DSM
Entries 14015
QT8(0) sum - simulated
QT board

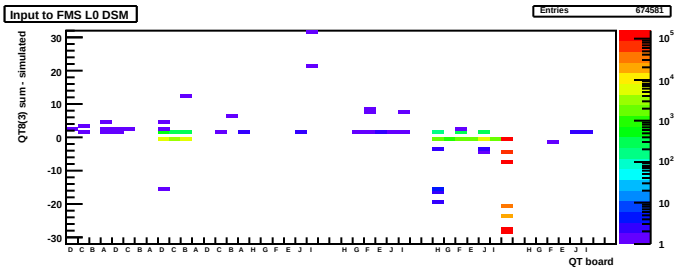

Input to FMS L0 DSM
Entries 3.32687e+07
QT8(1) sum
QT board

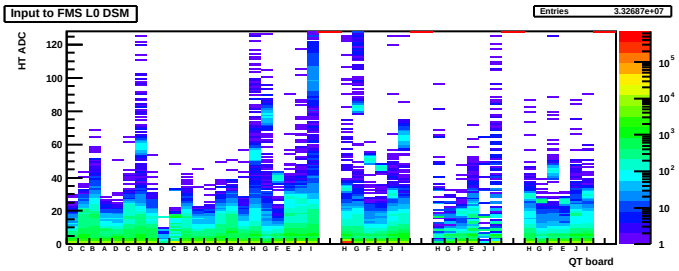

Input to FMS L0 DSM
Entries 16735
QT8(1) sum - simulated
QT board

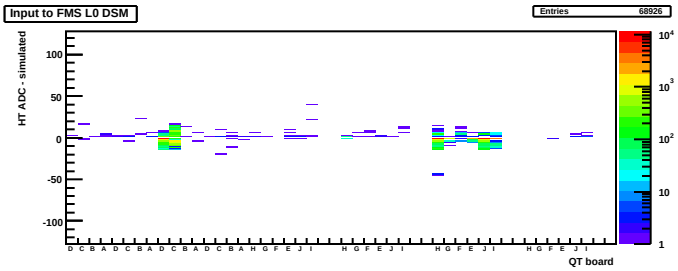

Input to FMS L0 DSM
Entries 3.32687e+07
QT8(2) sum
QT board

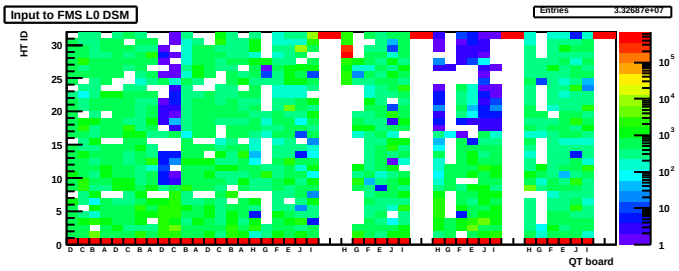

Input to FMS L0 DSM
Entries 501991
QT8(2) sum - simulated
QT board

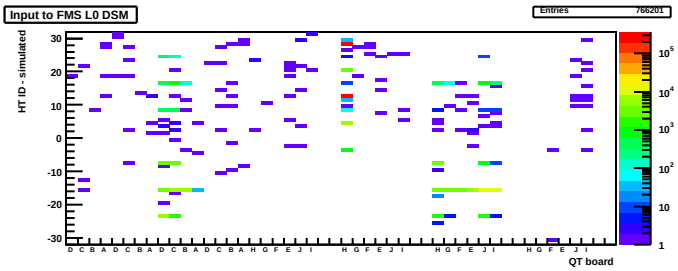

Input to FMS L0 DSM
Entries 3.32687e+07
QT8(3) sum
QT board

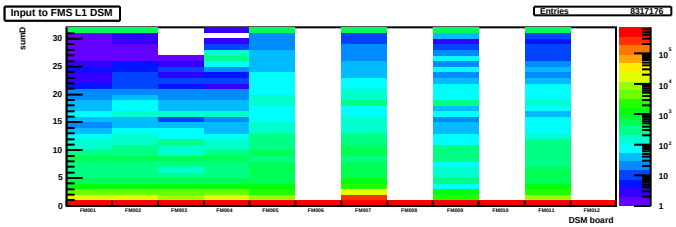

Input to FMS L0 DSM
Entries 674581
QT8(3) sum - simulated
QT board

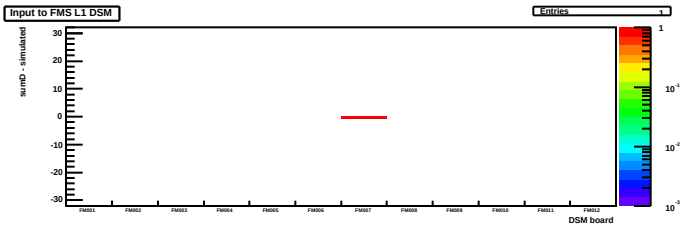

Input to FMS L0 DSM
Entries 3.32687e+07
HT ADC
QT board

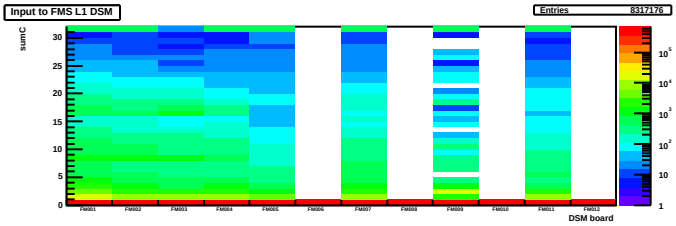

Input to FMS L0 DSM
Entries 68926
HT ADC - simulated
QT board

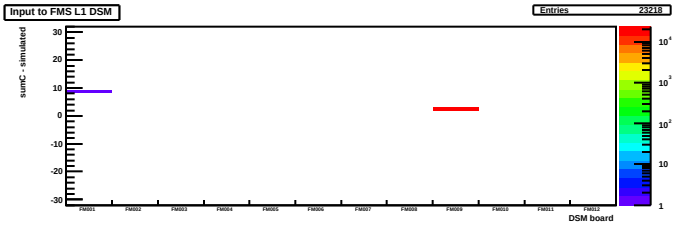

Input to FMS L0 DSM
Entries 3.32687e+07
HT ID
QT board

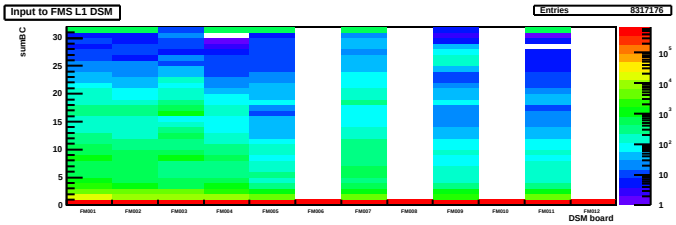

Input to FMS L0 DSM
Entries 766201
HT ID - simulated
QT board

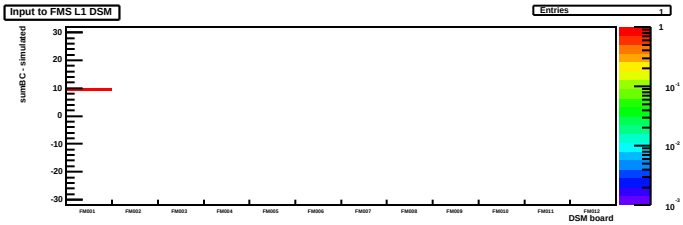

Input to FMS L1 DSM
Entries 8317176
sumD
DSM board

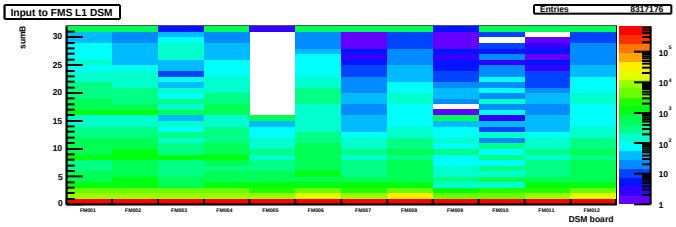

Input to FMS L1 DSM
Entries 1
sumD - simulated
DSM board

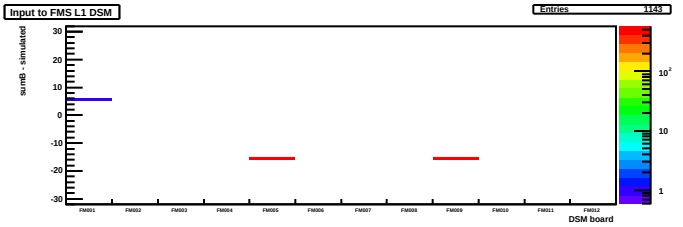

Input to FMS L1 DSM
Entries 8317176
sumC
DSM board

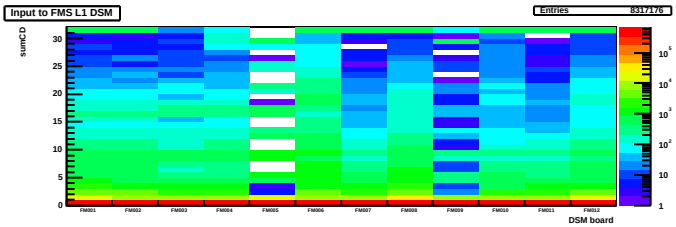

Input to FMS L1 DSM
Entries 23218
sumC - simulated
DSM board

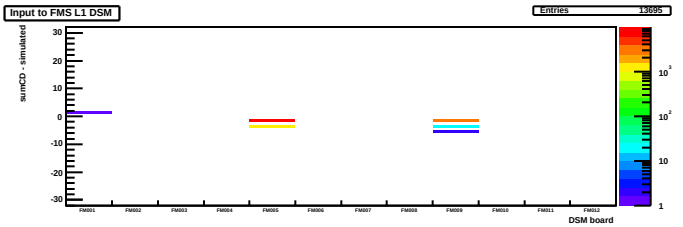

Input to FMS L1 DSM
Entries 8317176
sumBC
DSM board

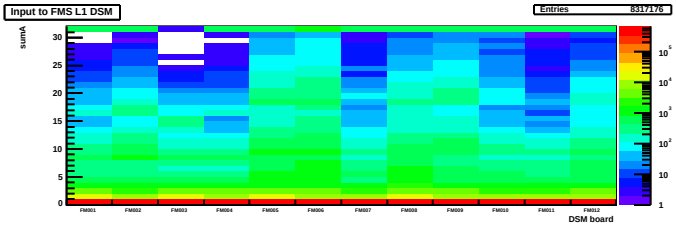

Input to FMS L1 DSM
Entries 1
sumBC - simulated
DSM board

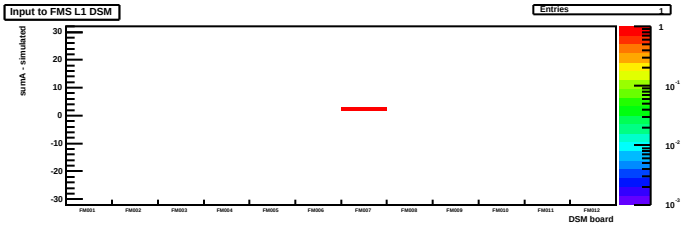

Input to FMS L1 DSM
Entries 8317176
sumB
DSM board

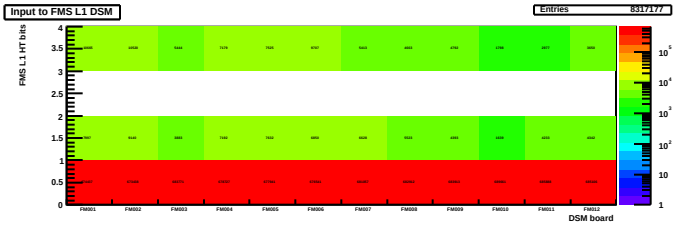

Input to FMS L1 DSM
Entries 1143
sumB - simulated
DSM board

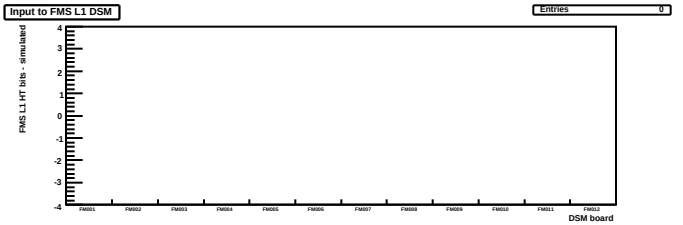

Input to FMS L1 DSM
Entries 8317176
sumCD
DSM board

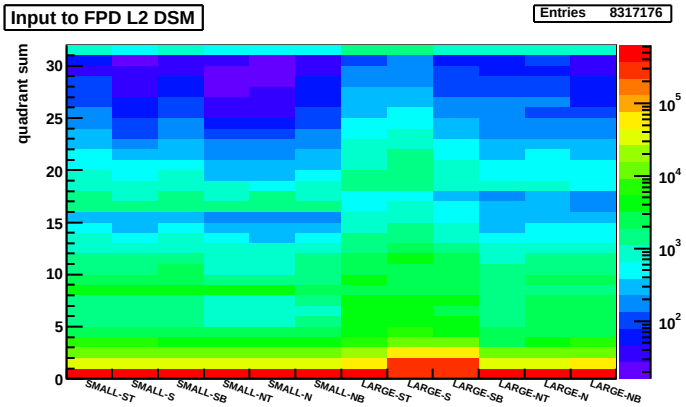

Input to FMS L1 DSM
Entries 13695
sumCD - simulated
DSM board

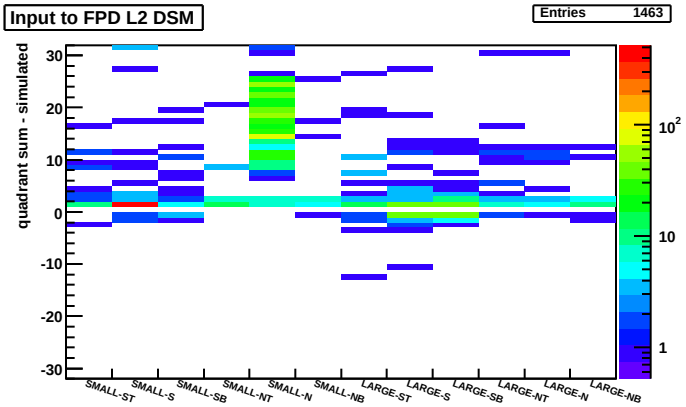

Input to FMS L1 DSM
Entries 8317176
sumA
DSM board

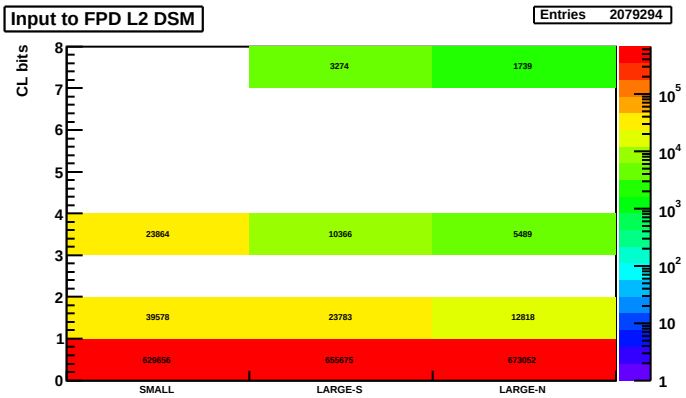

Input to FMS L1 DSM
Entries 1
sumA - simulated
DSM board

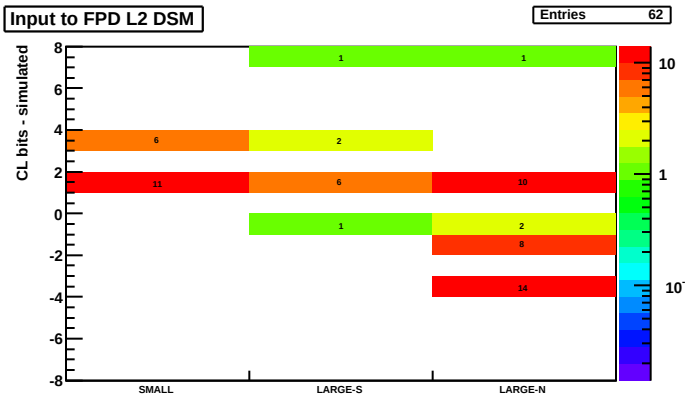

Input to FMS L1 DSM
Entries 8317177
FMS L1 HT bits
DSM board

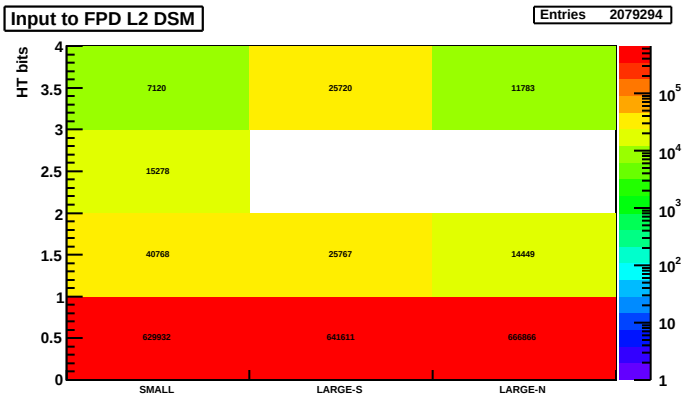

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

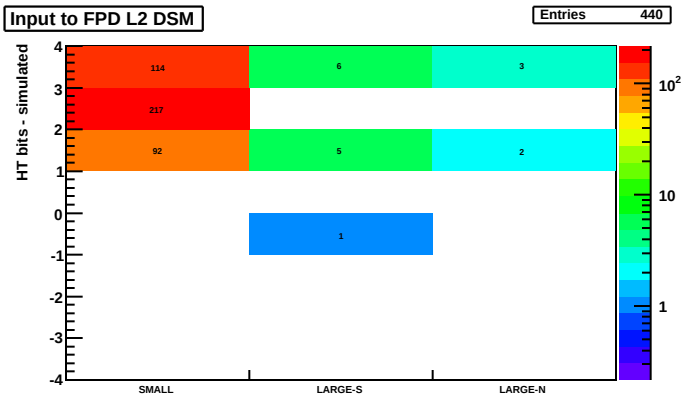

Input to FPD L2 DSM
Entries 8317176
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

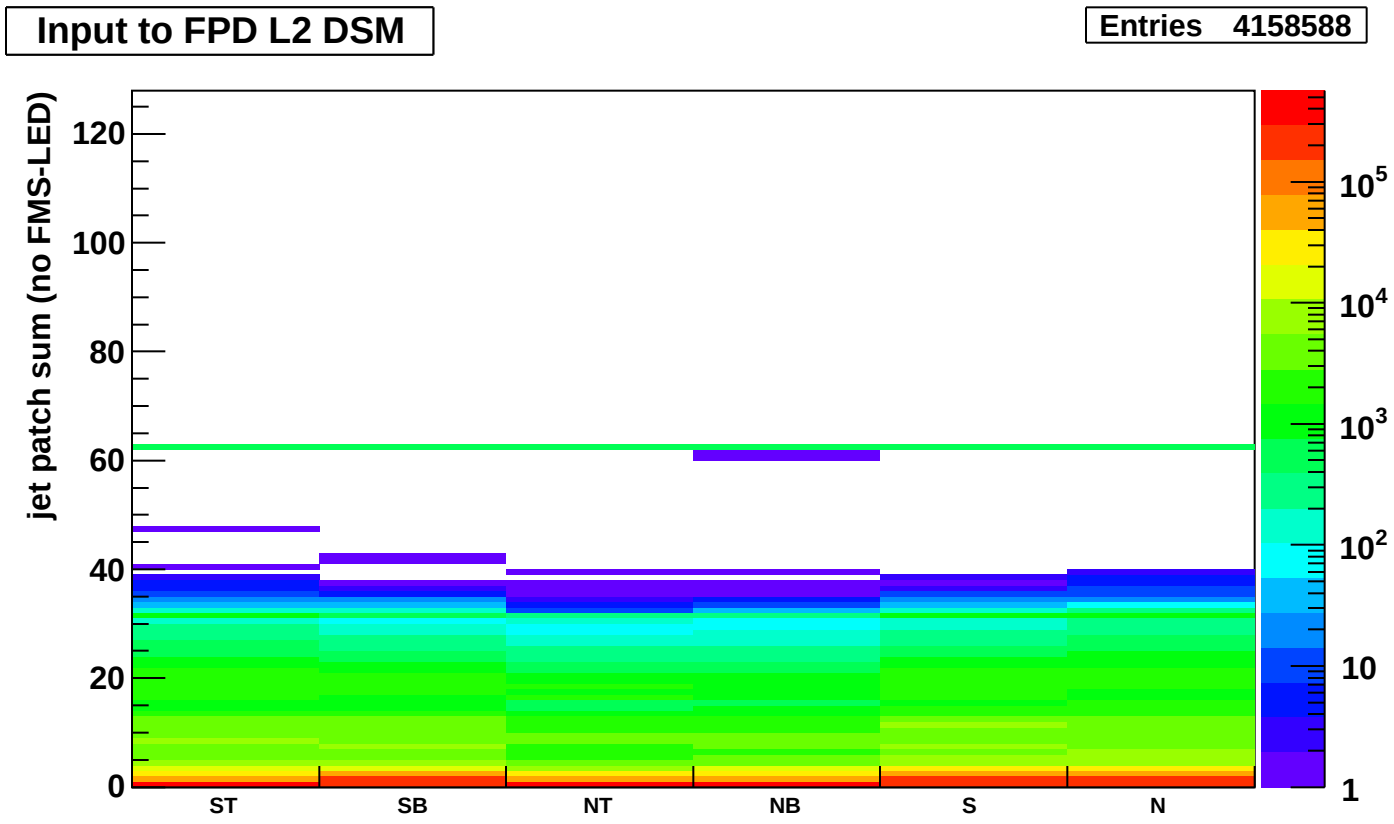

Input to FPD L2 DSM
Entries 1463
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

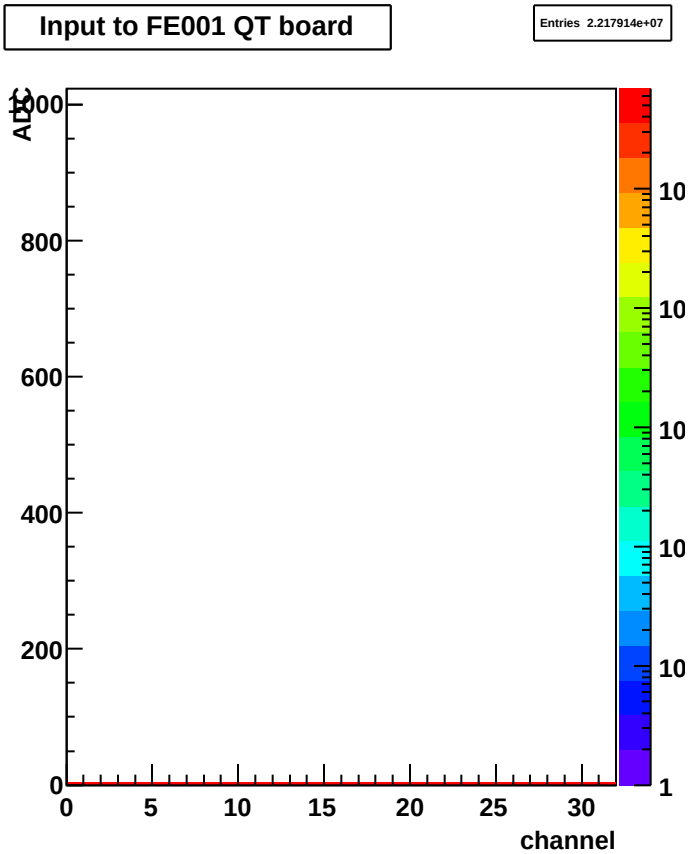

Input to FPD L2 DSM
Entries 2079294
CL bits
3274
1739
23864
10366
5489
39578
23783
12818
629656
655675
673052
SMALL
LARGE-S
LARGE-N

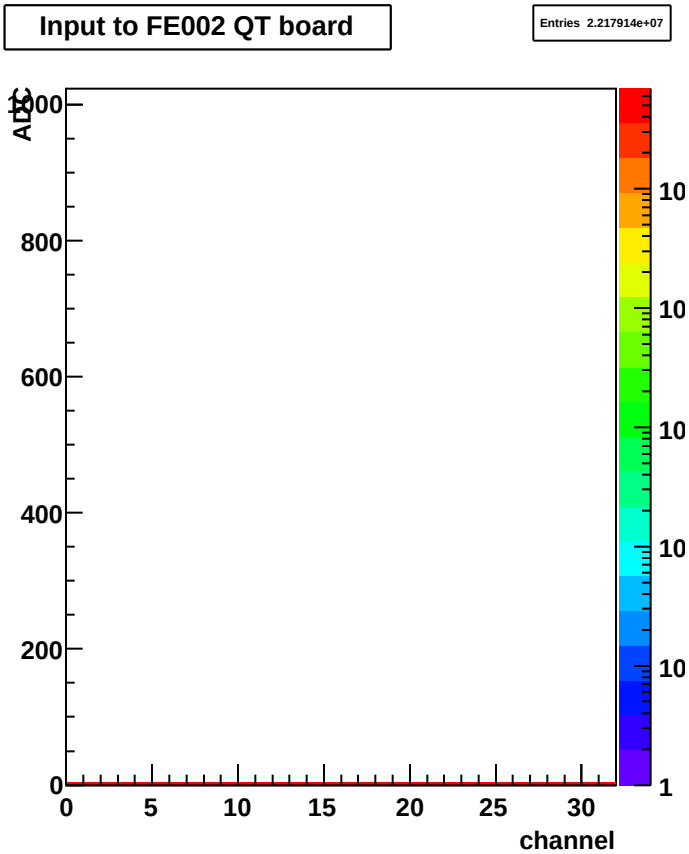

Input to FPD L2 DSM
Entries 62
CL bits - simulated
1
1
6
2
11
6
10
1
2
8
14
SMALL
LARGE-S
LARGE-N

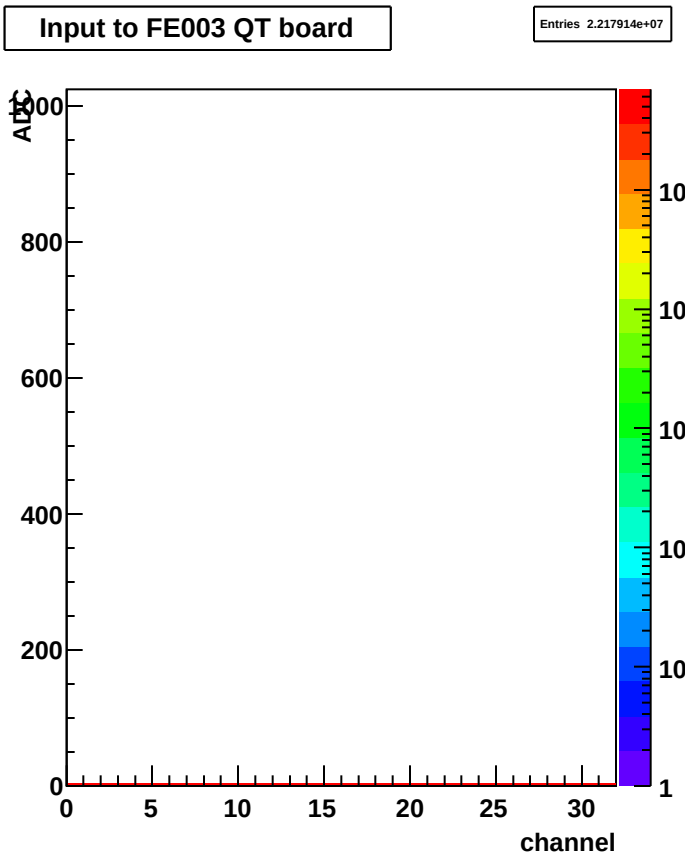

Input to FPD L2 DSM
Entries 2079294
HT bits
7120
25720
11783
15278
40768
25767
14449
629932
641611
666866
SMALL
LARGE-S
LARGE-N

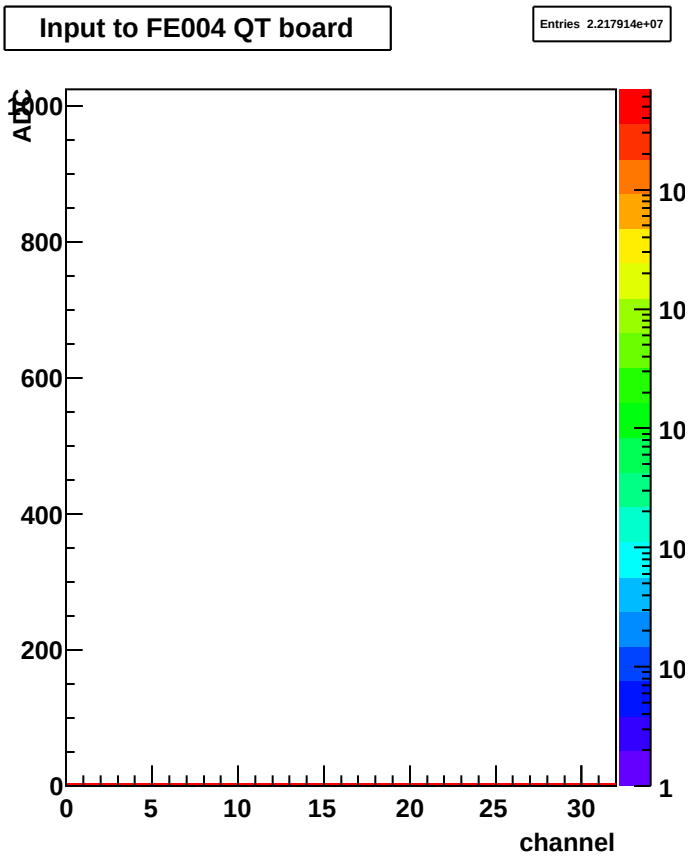

Input to FPD L2 DSM
Entries 440
HT bits - simulated
114
6
3
217
92
5
2
1
SMALL
LARGE-S
LARGE-N

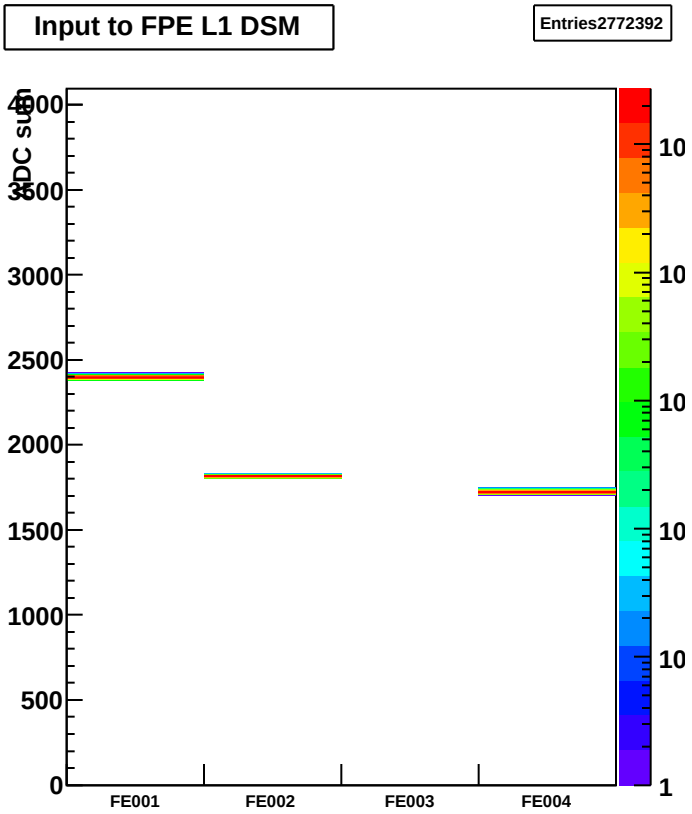

Input to FPD L2 DSM
Entries 4158588
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

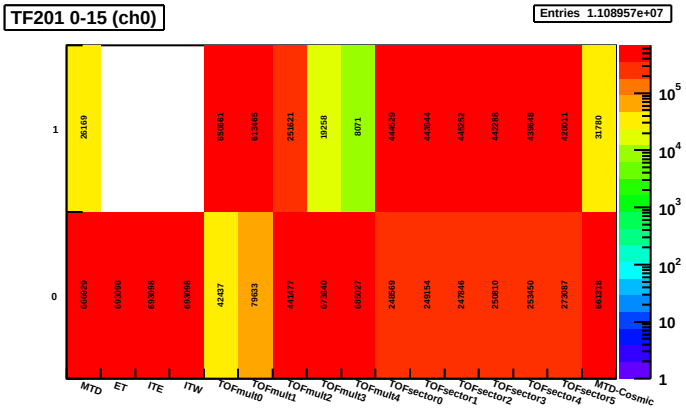

Input to FE001 QT board
Entries 2.217914e+07
ADC
channel

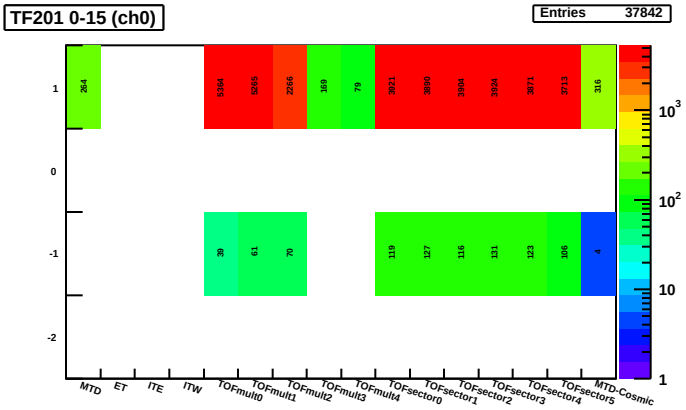

Input to FE002 QT board
Entries 2.217914e+07
ADC
channel

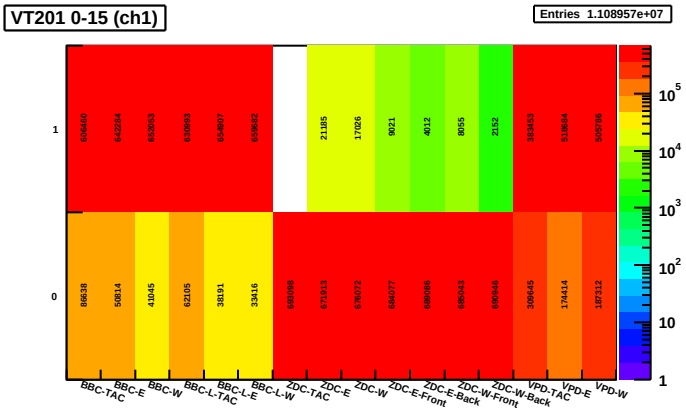

Input to FE003 QT board
Entries 2.217914e+07
ADC
channel

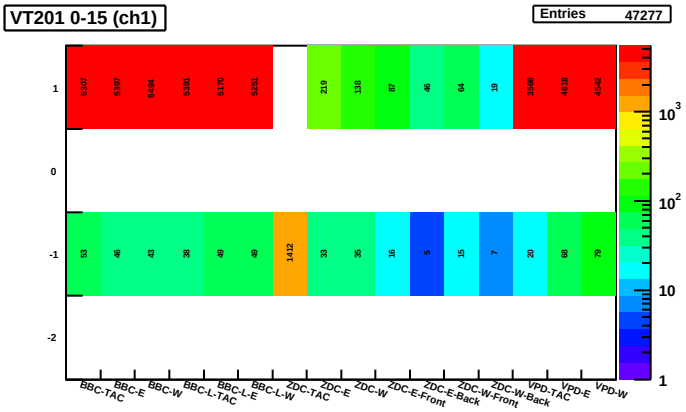

Input to FE004 QT board
Entries 2.217914e+07
ADC
channel

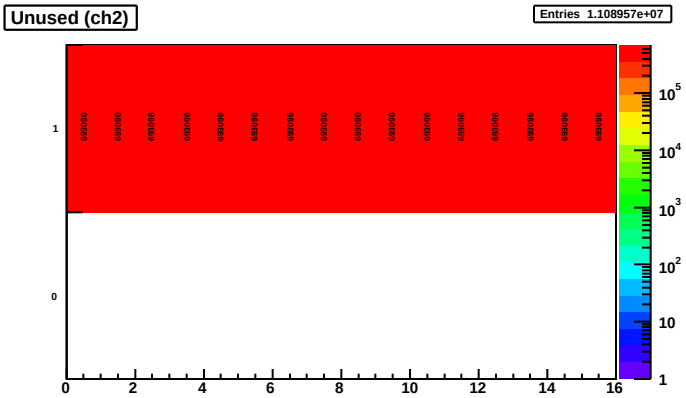

Input to FPE L1 DSM
Entries2772392
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

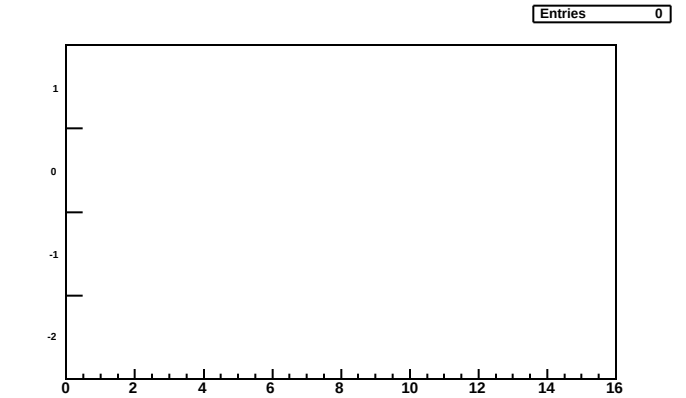

TF201 0-15 (ch0)
Entries 1.108957e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

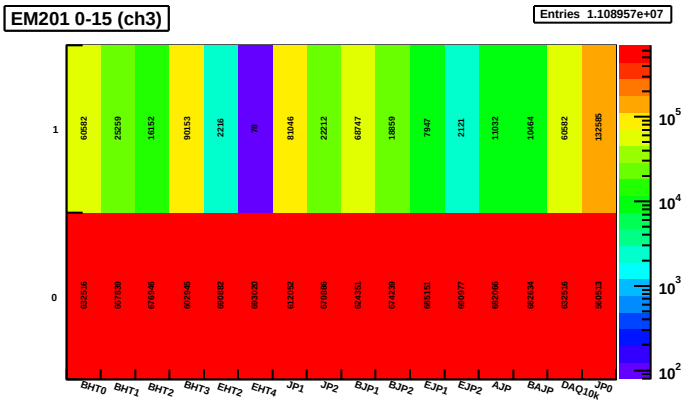

TF201 0-15 (ch0)
Entries 37842
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

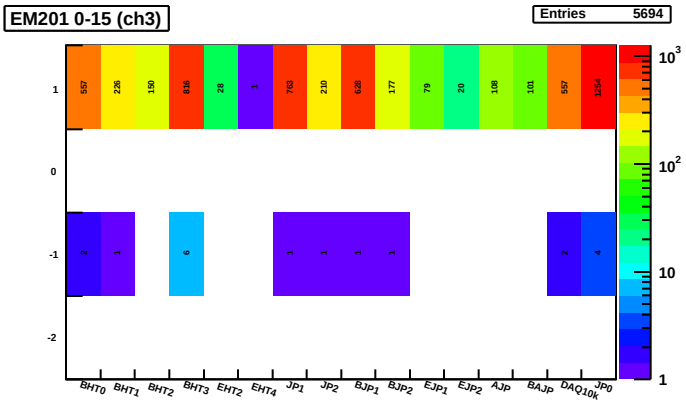

VT201 0-15 (ch1)
Entries 1.108957e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 47277
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

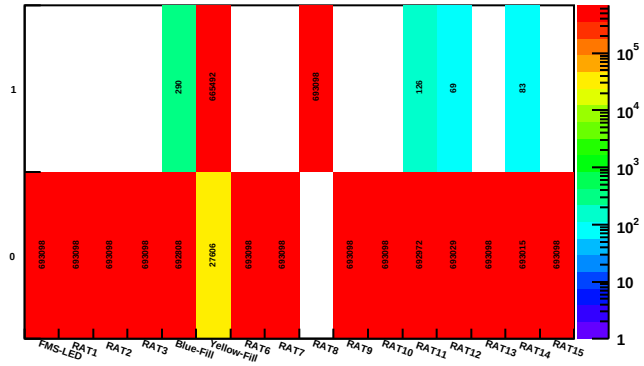

Unused (ch2)
Entries 1.108957e+07

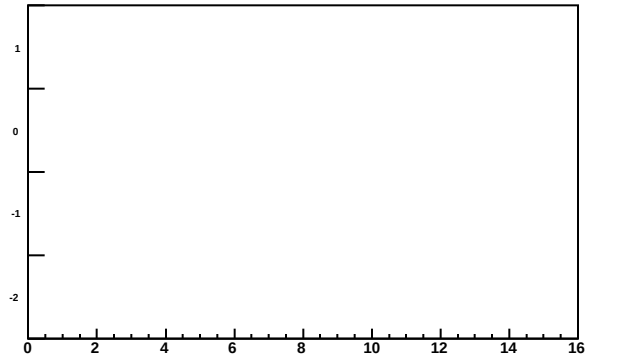

Entries 0


EM201 0-15 (ch3)
Entries 1.108957e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

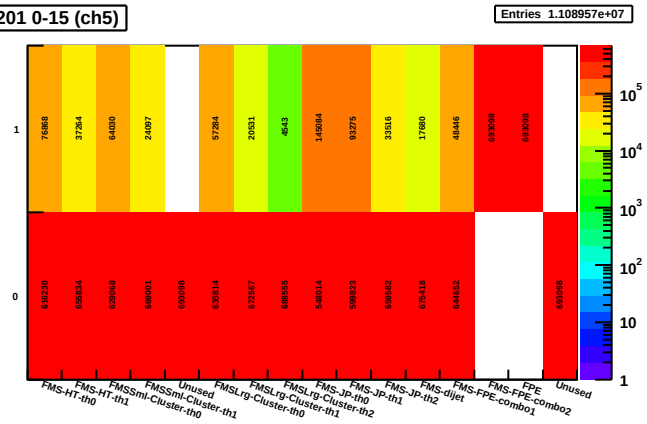

EM201 0-15 (ch3)
Entries 5694
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

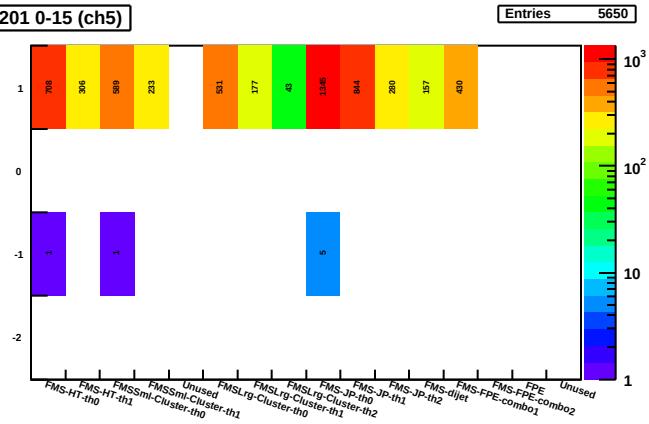




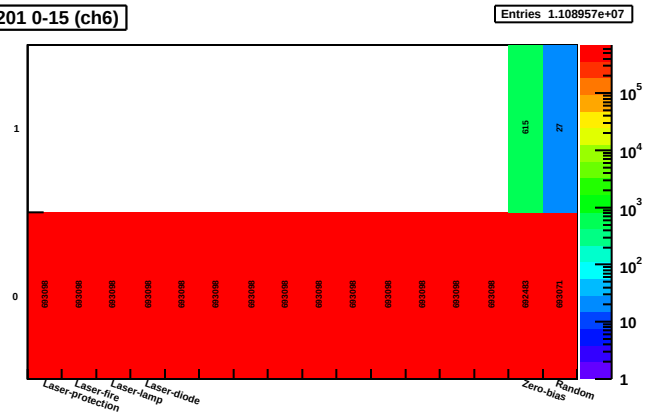
FP201 0-15 (ch5)

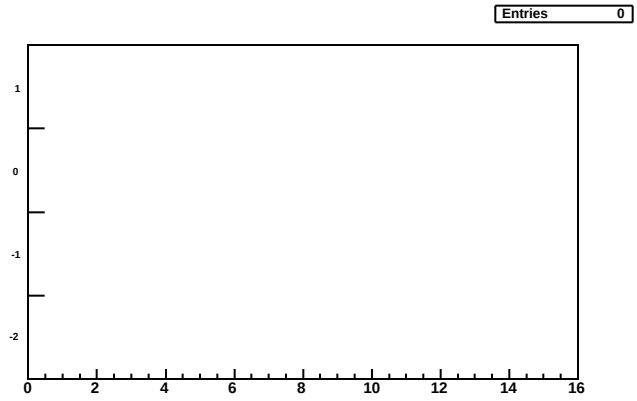
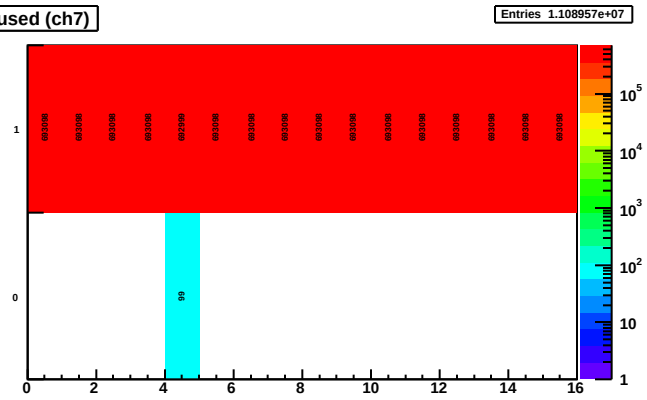
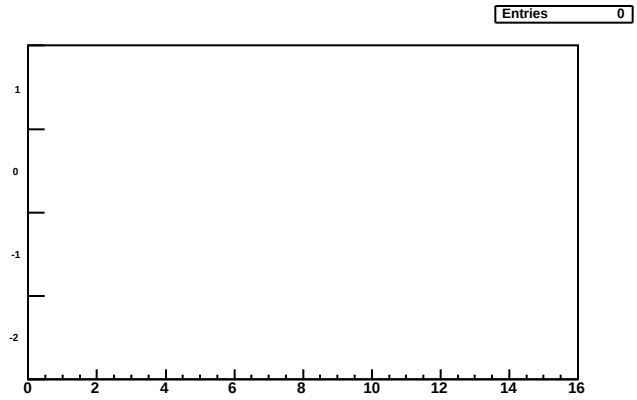


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)