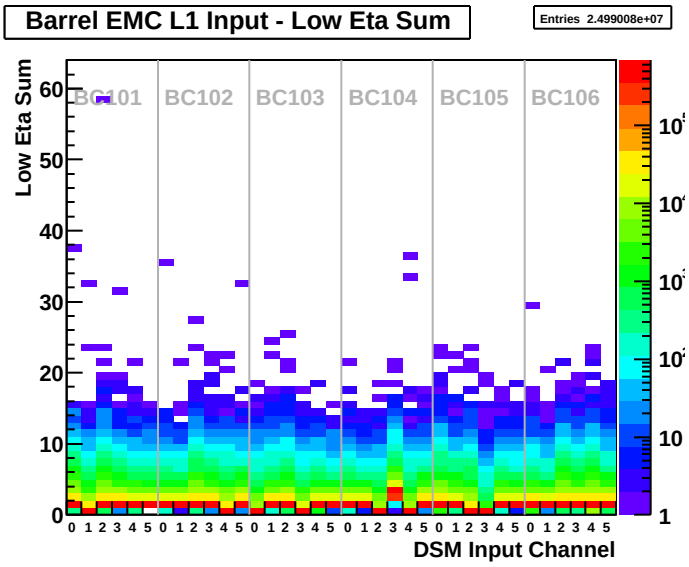
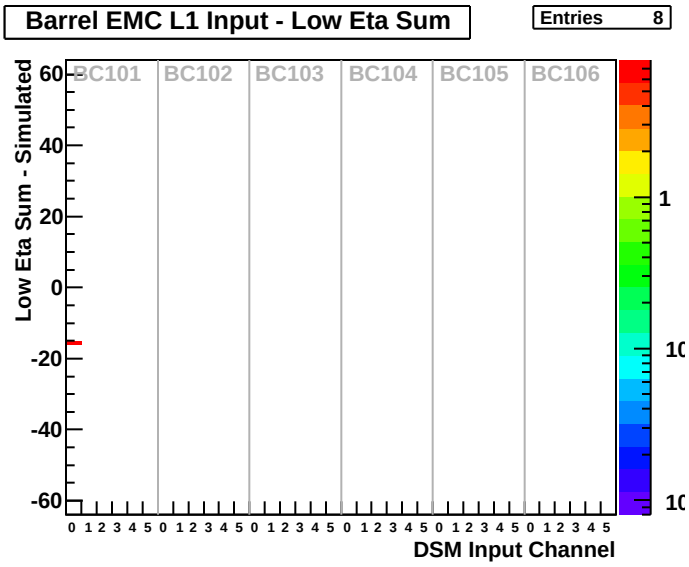
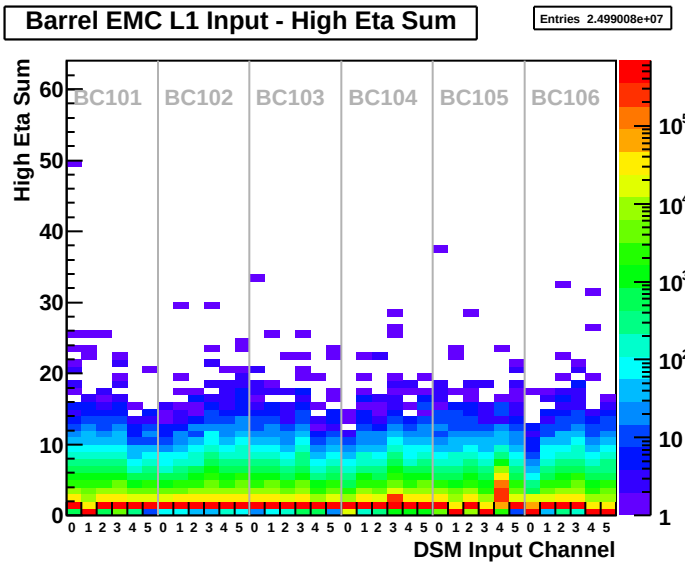
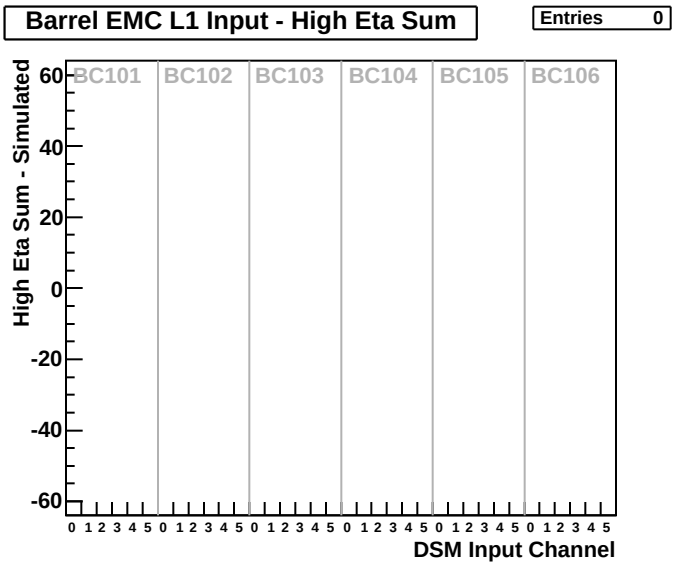
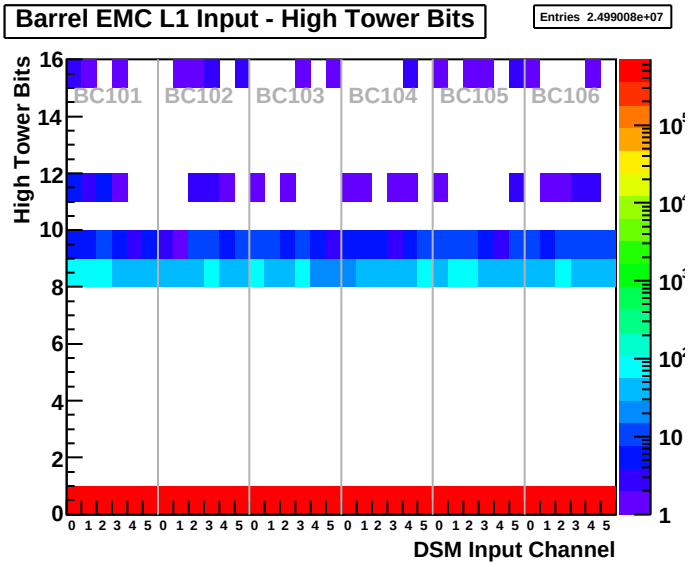
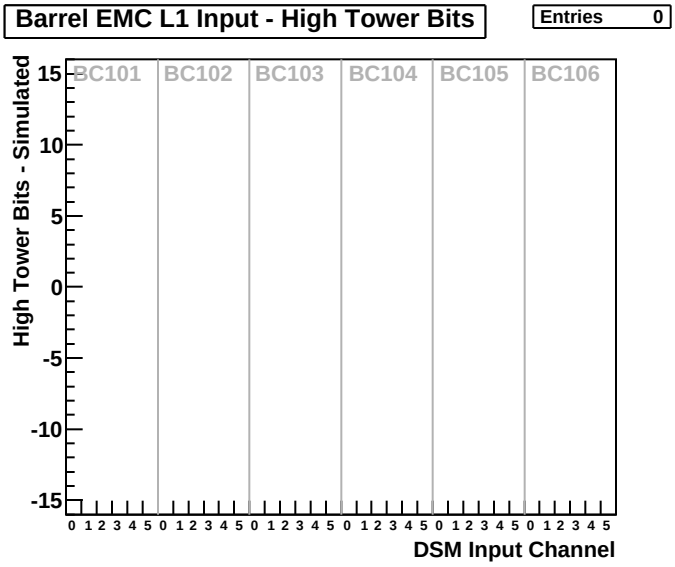

Barrel EMC L1 Input - Low Eta Sum
Entries 2.499008e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

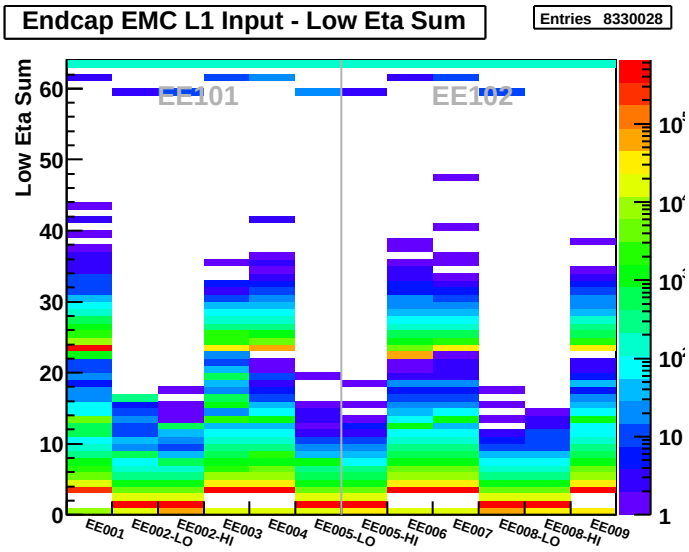

Barrel EMC L1 Input - Low Eta Sum
Entries 8
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

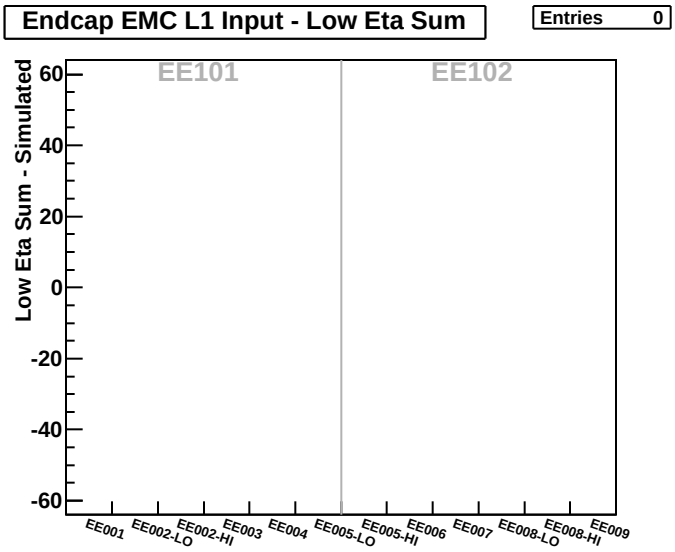

Barrel EMC L1 Input - High Eta Sum
Entries 2.499008e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

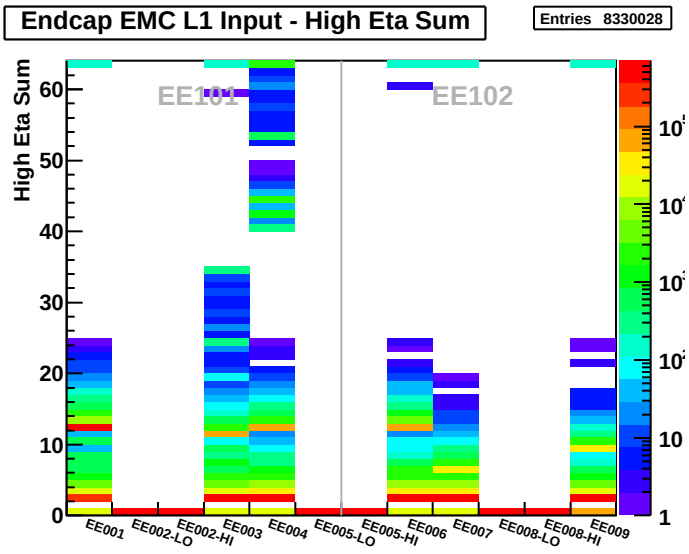

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

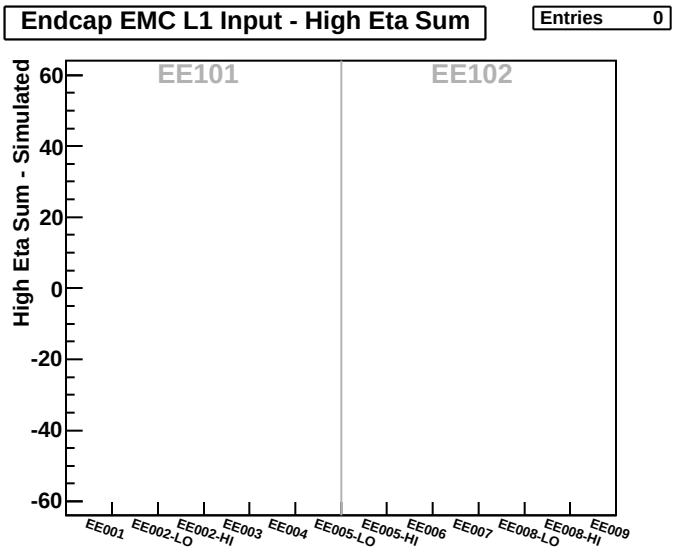

Barrel EMC L1 Input - High Tower Bits
Entries 2.499008e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

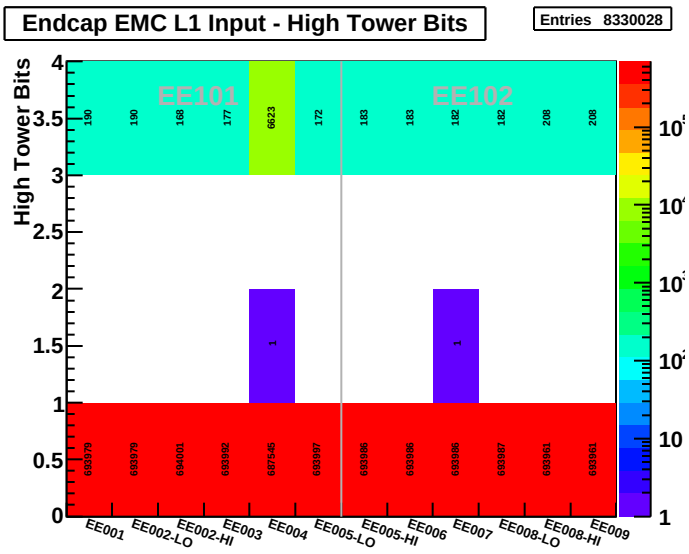

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

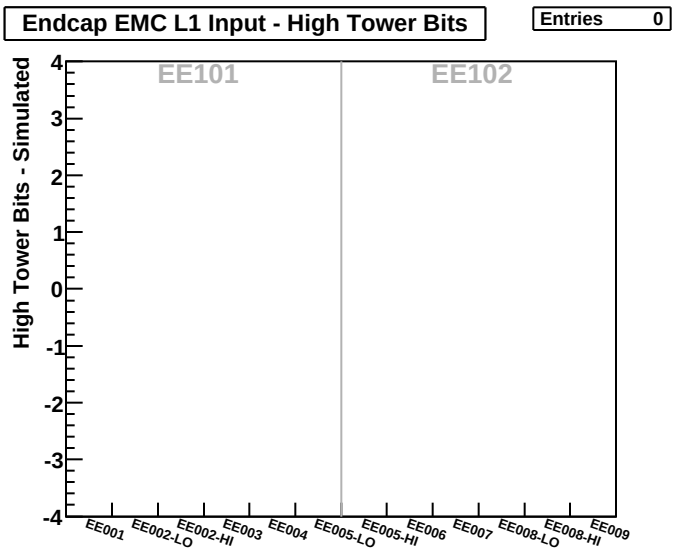

Endcap EMC L1 Input - Low Eta Sum
Entries 8330028
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

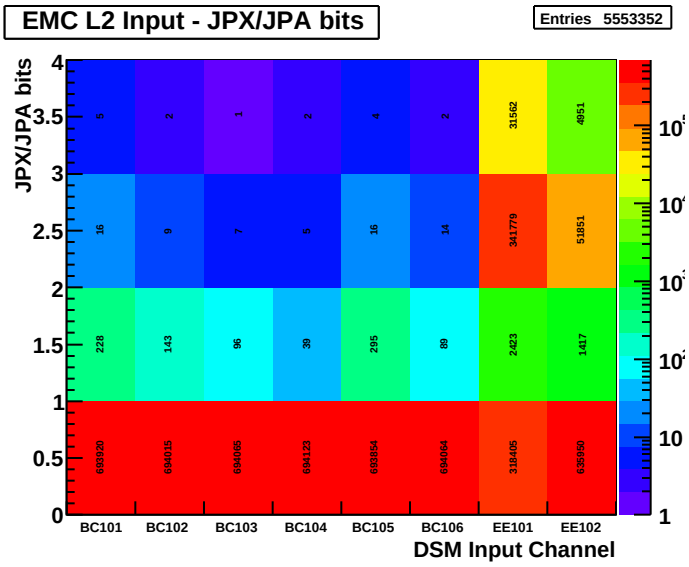

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

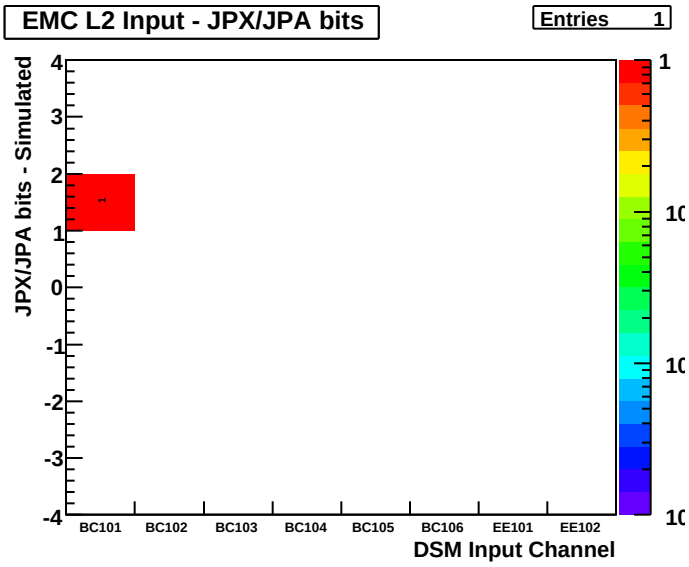

Endcap EMC L1 Input - High Eta Sum
Entries 8330028
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

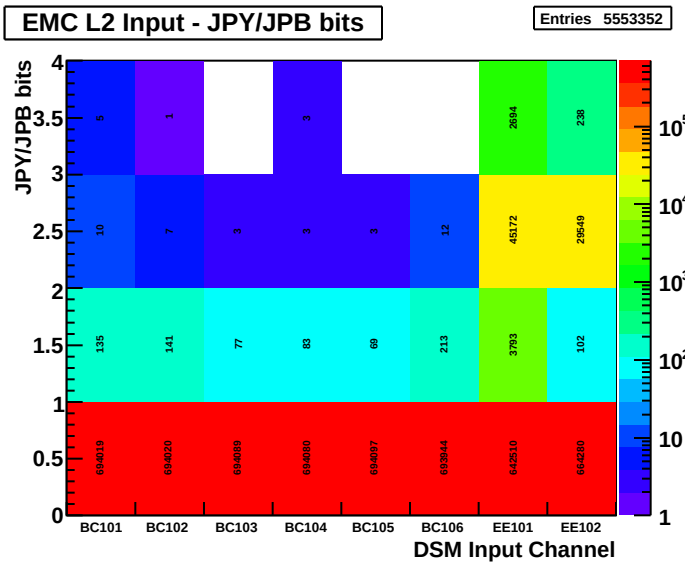

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

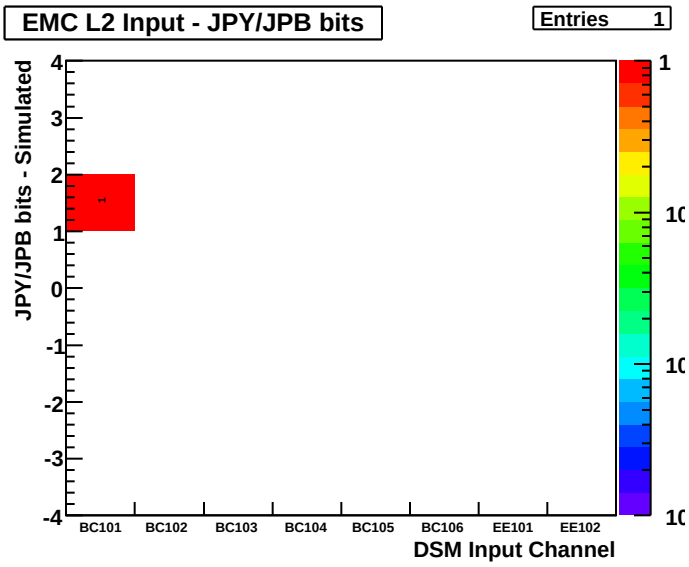

Endcap EMC L1 Input - High Tower Bits
Entries 8330028
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

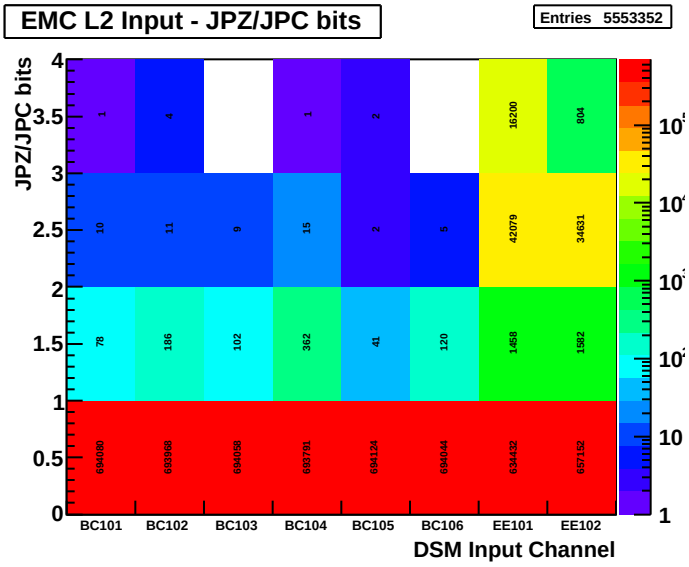

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

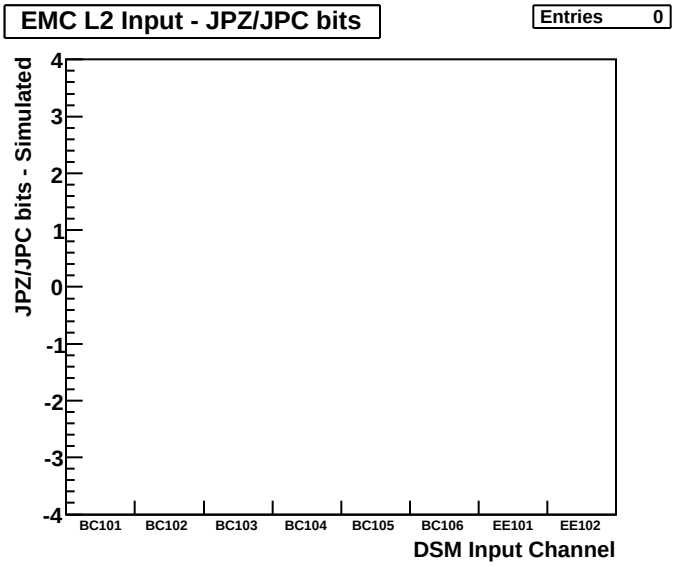

EMC L2 Input - JPX/JPA bits
Entries 5553352
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
5 2 1 2 4 2 31562 4951
16 9 7 5 16 14 341779 51851
228 143 96 39 295 89 2423 1417
693920 694015 694065 694123 693854 694064 318405 635950

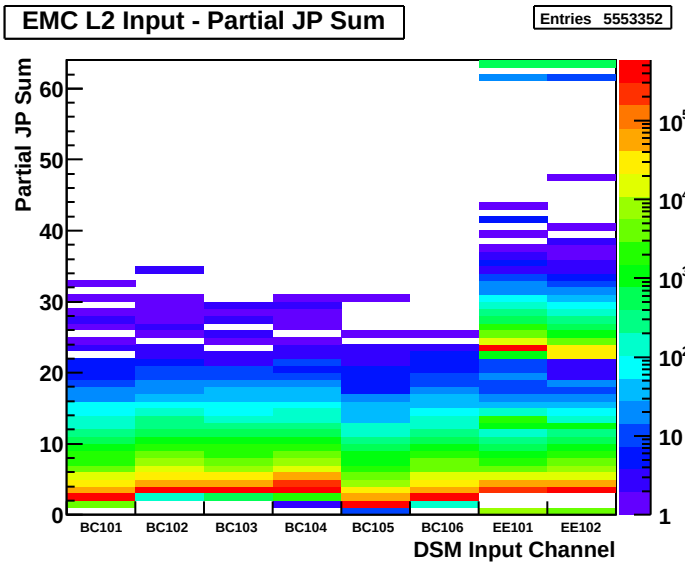

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

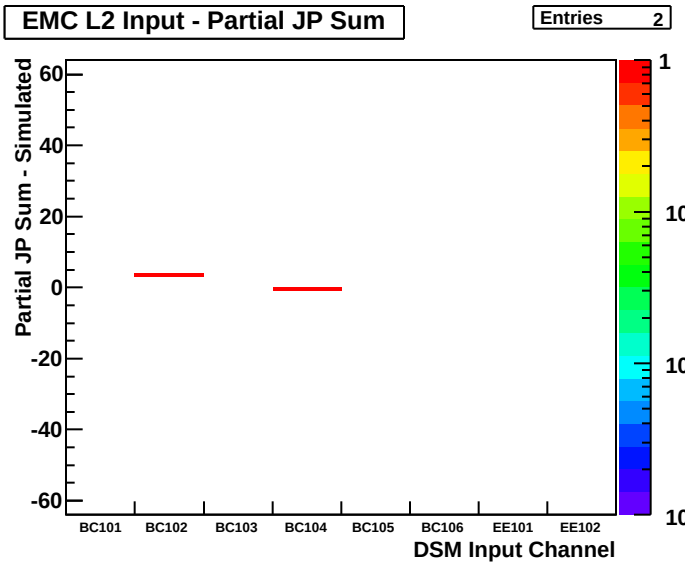

EMC L2 Input - JPY/JPB bits
Entries 5553352
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
5 1 3 2694 238
10 7 3 3 3 12 45172 29549
135 141 77 83 69 213 3793 102
694019 694020 694089 694080 694097 693944 642510 664280

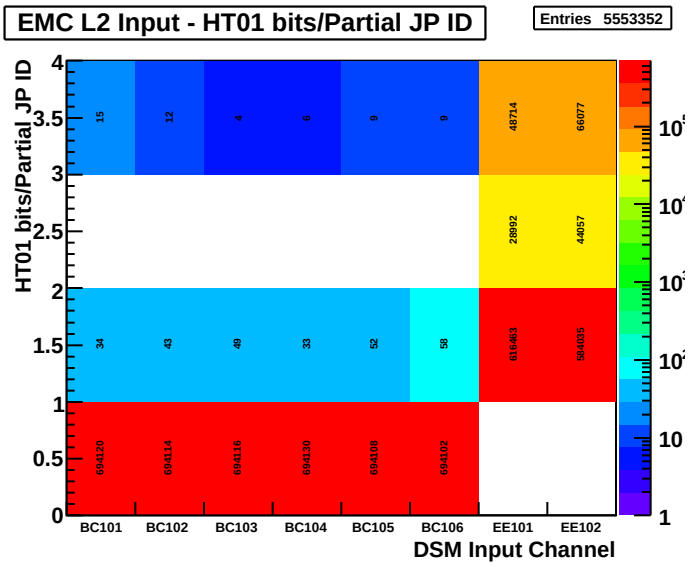

EMC L2 Input - JPY/JPB bits
Entries 1
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

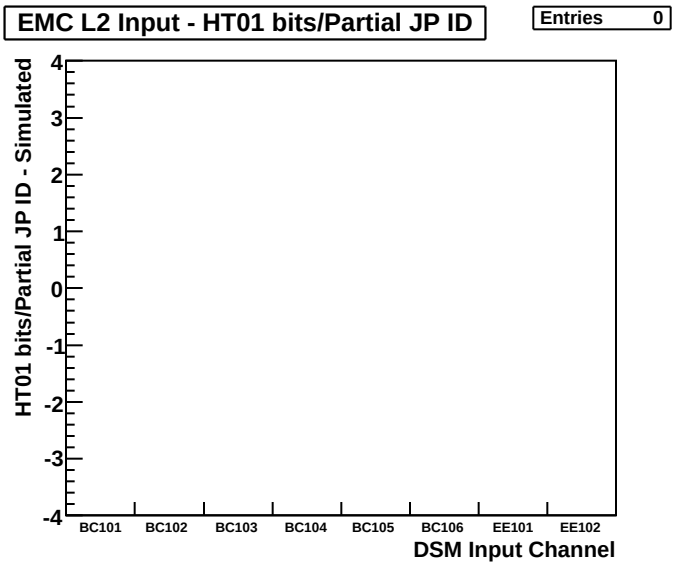

EMC L2 Input - JPZ/JPC bits
Entries 5553352
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 4 1 2 16200 804
10 11 9 15 2 5 42079 34631
78 186 102 362 41 120 1458 1582
694080 693968 694059 693791 694124 694044 634432 657152

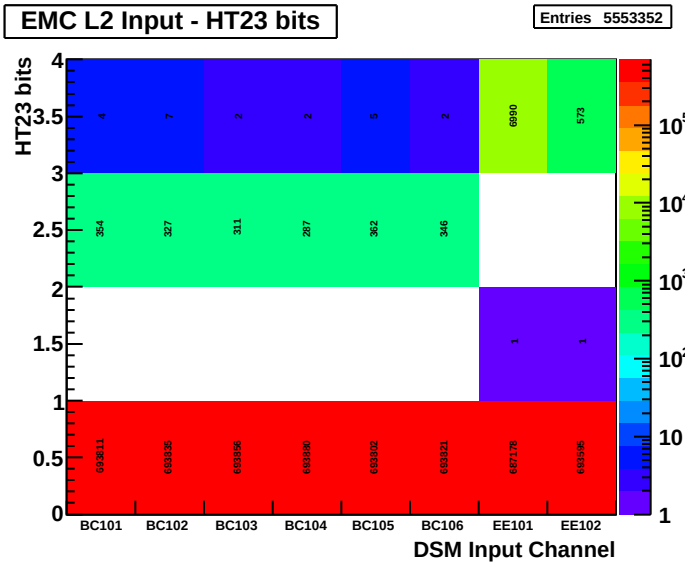

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

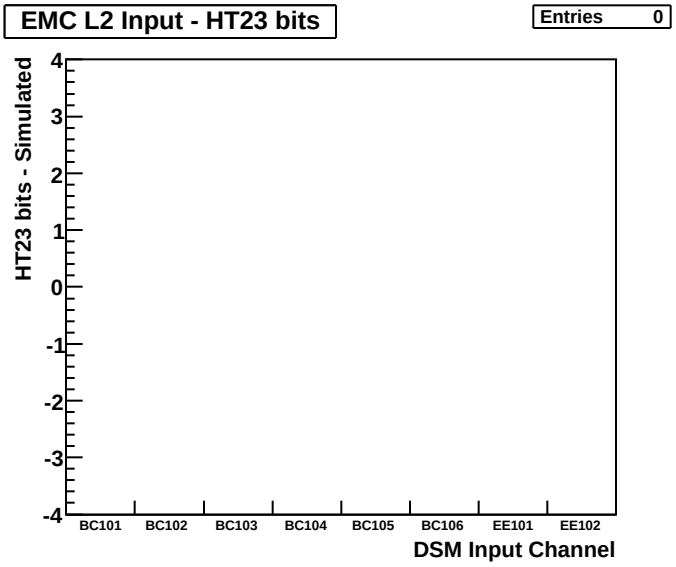

EMC L2 Input - Partial JP Sum
Entries 5553352
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

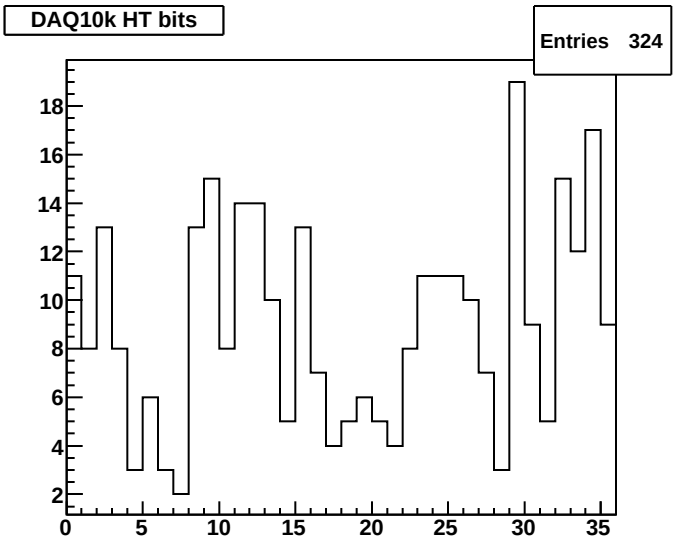

EMC L2 Input - Partial JP Sum
Entries 2
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

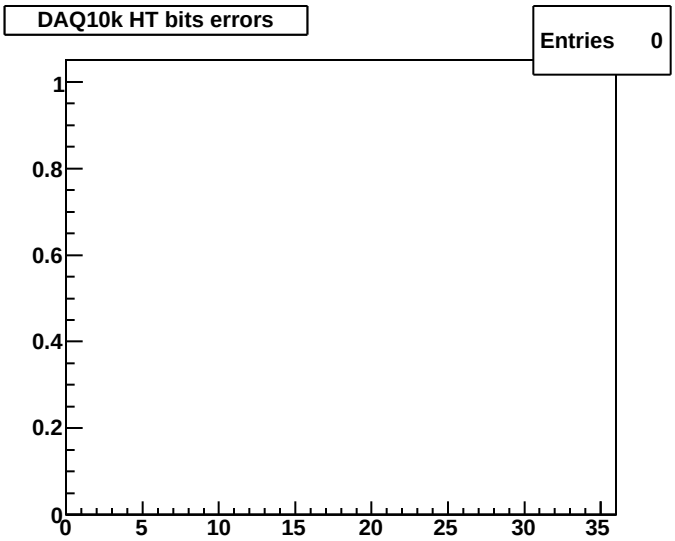

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5553352
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

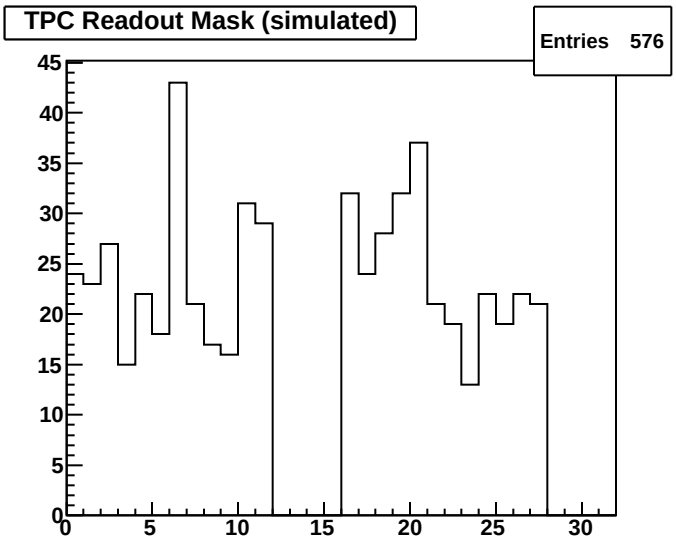

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

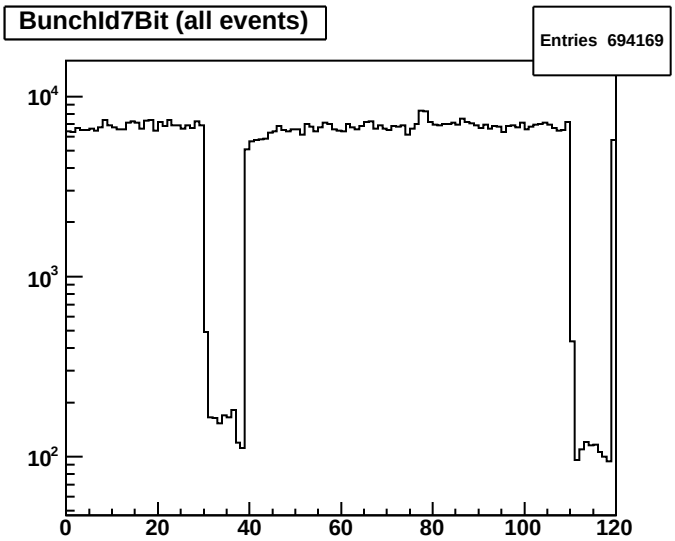

EMC L2 Input - HT23 bits
Entries 5553352
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

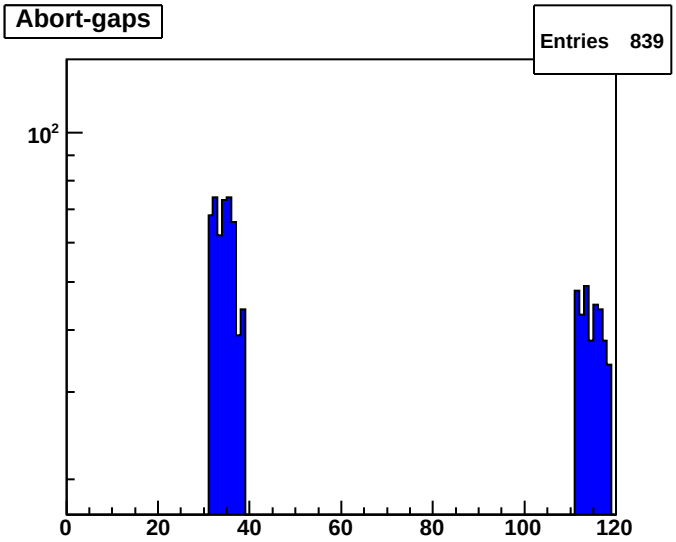

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

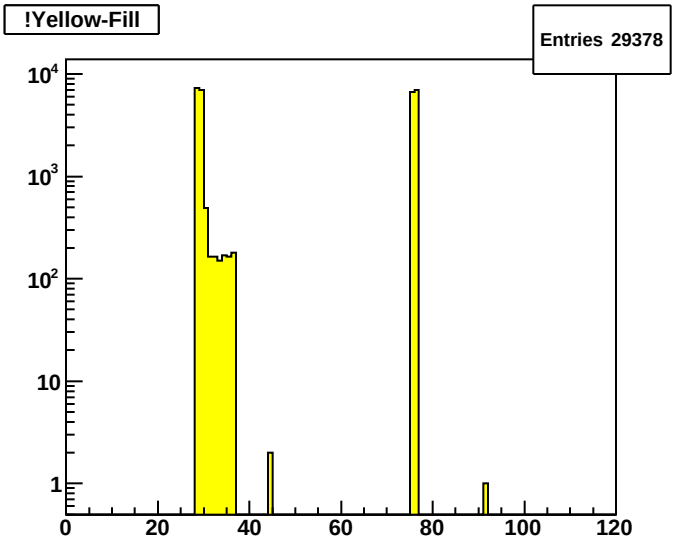

DAQ10k HT bits
Entries 324

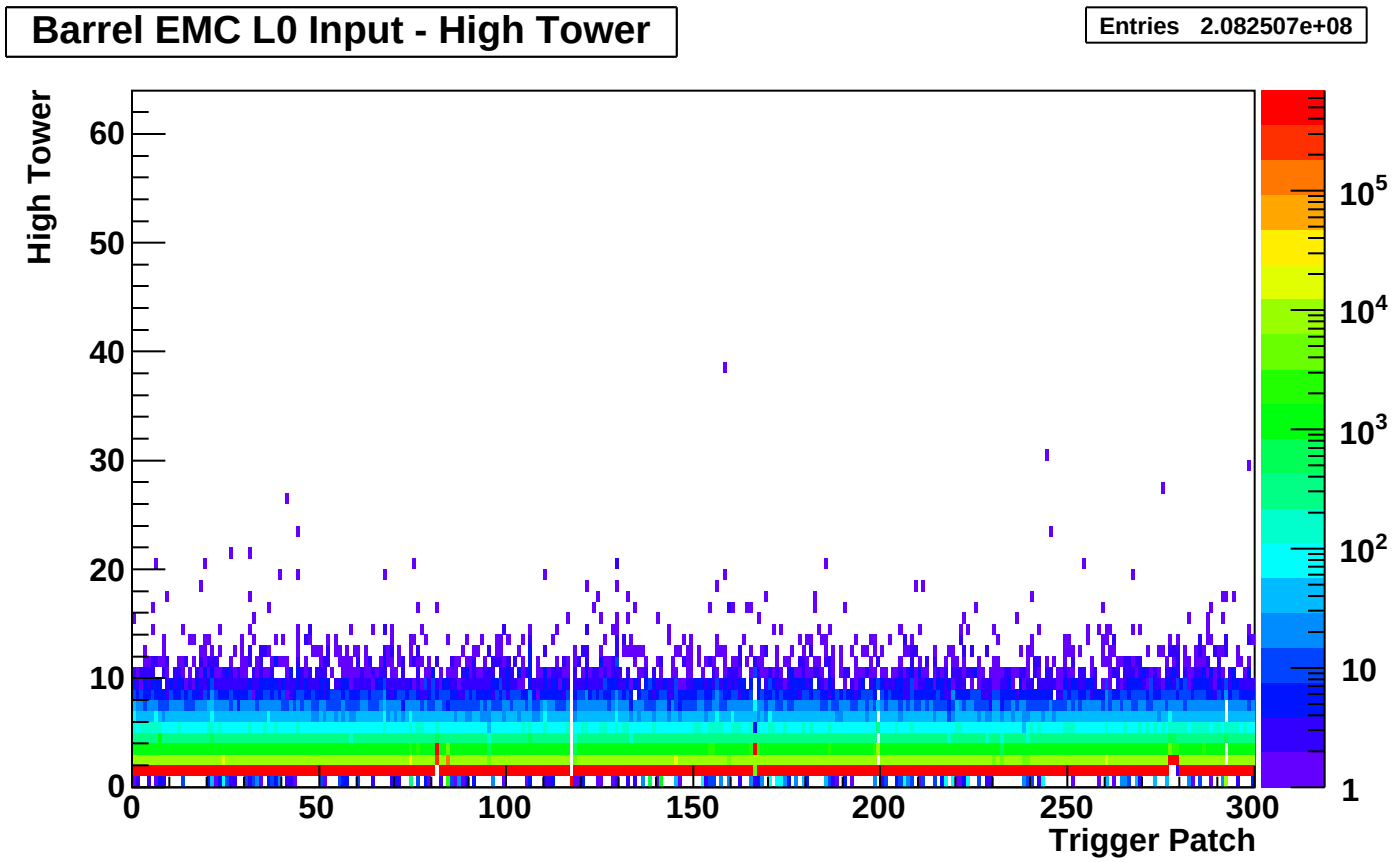

DAQ10k HT bits errors
Entries 0

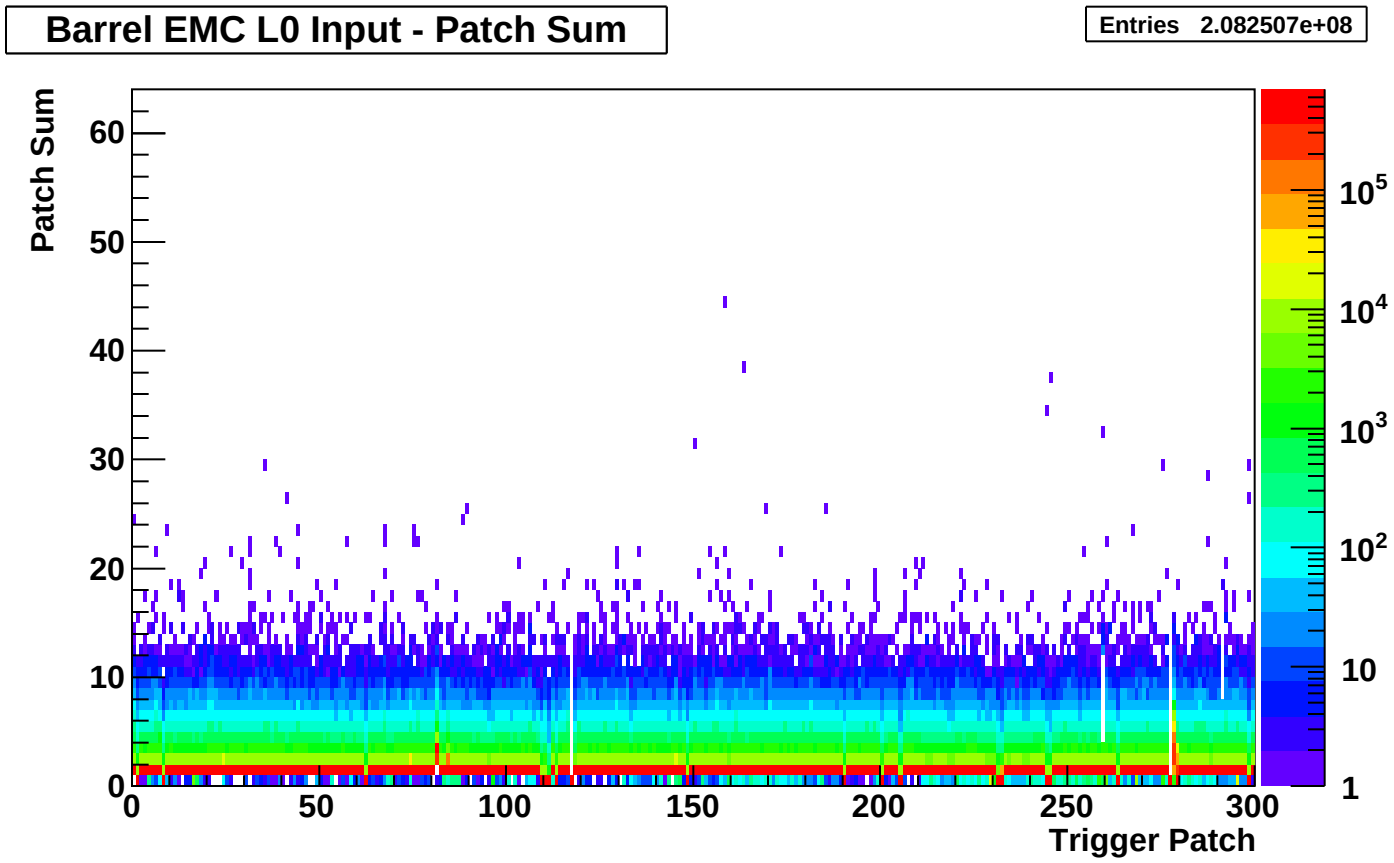

TPC Readout Mask (simulated)
Entries 576

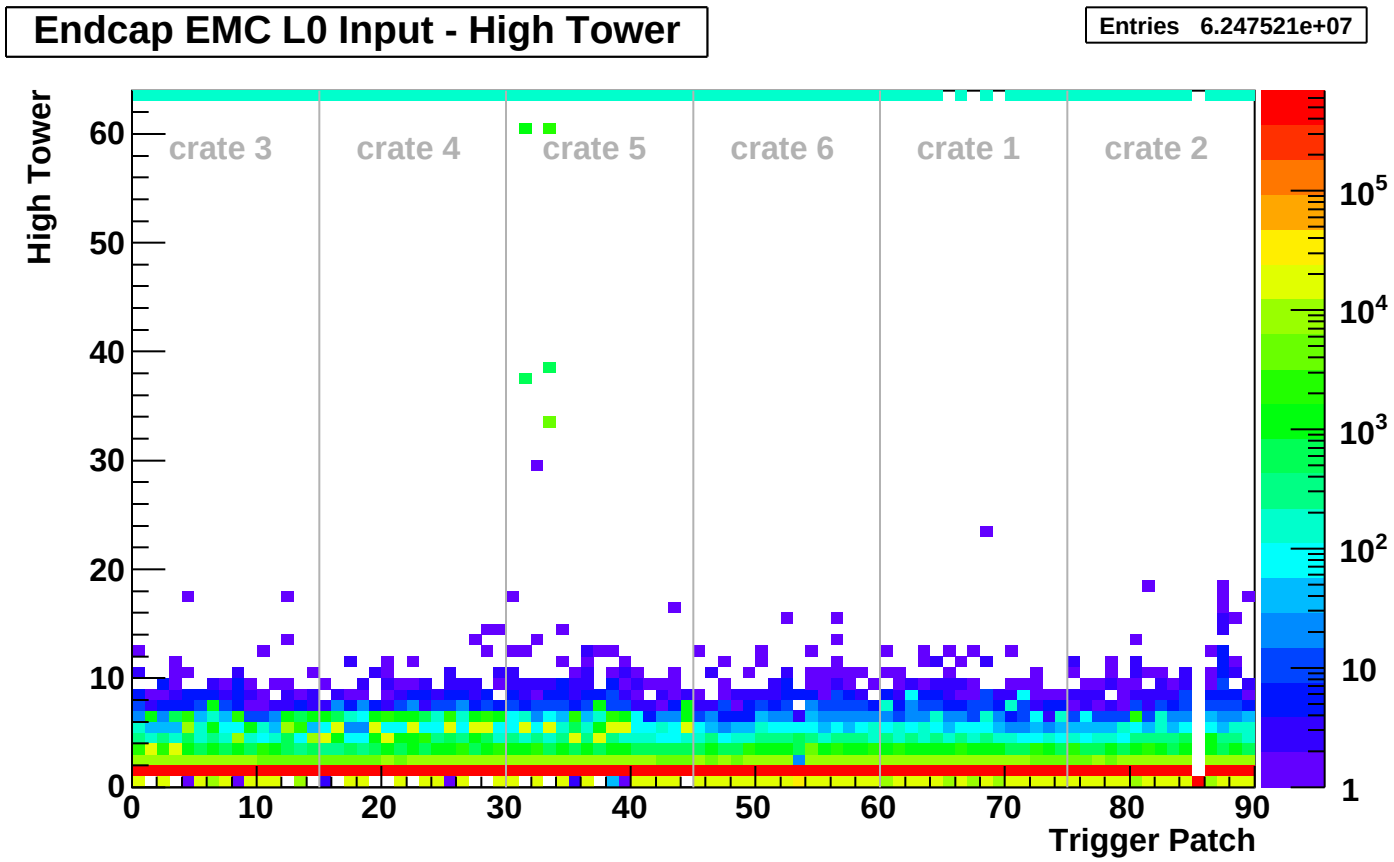

BunchId7Bit (all events)
Entries 694169

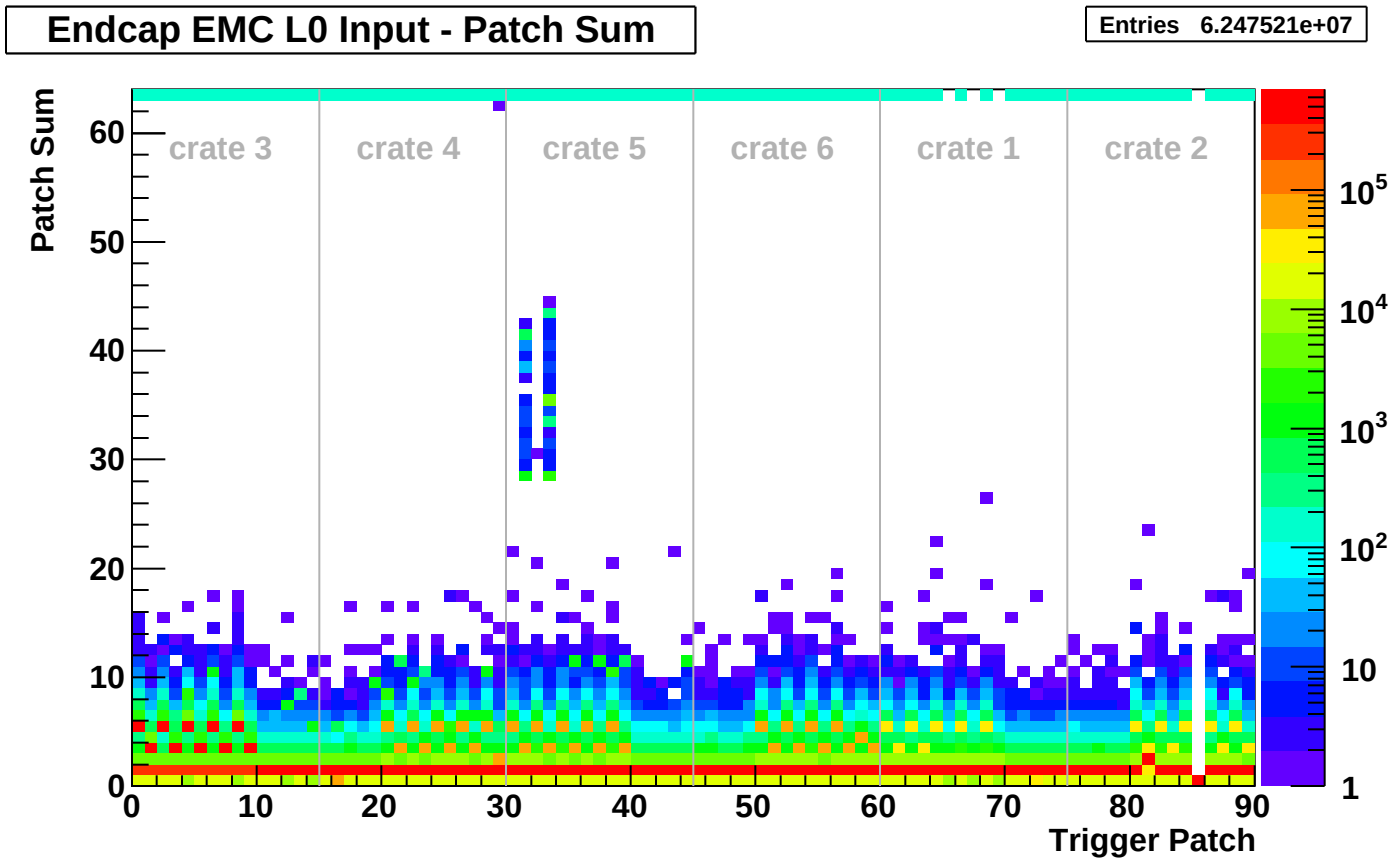

Abort-gaps
Entries 839

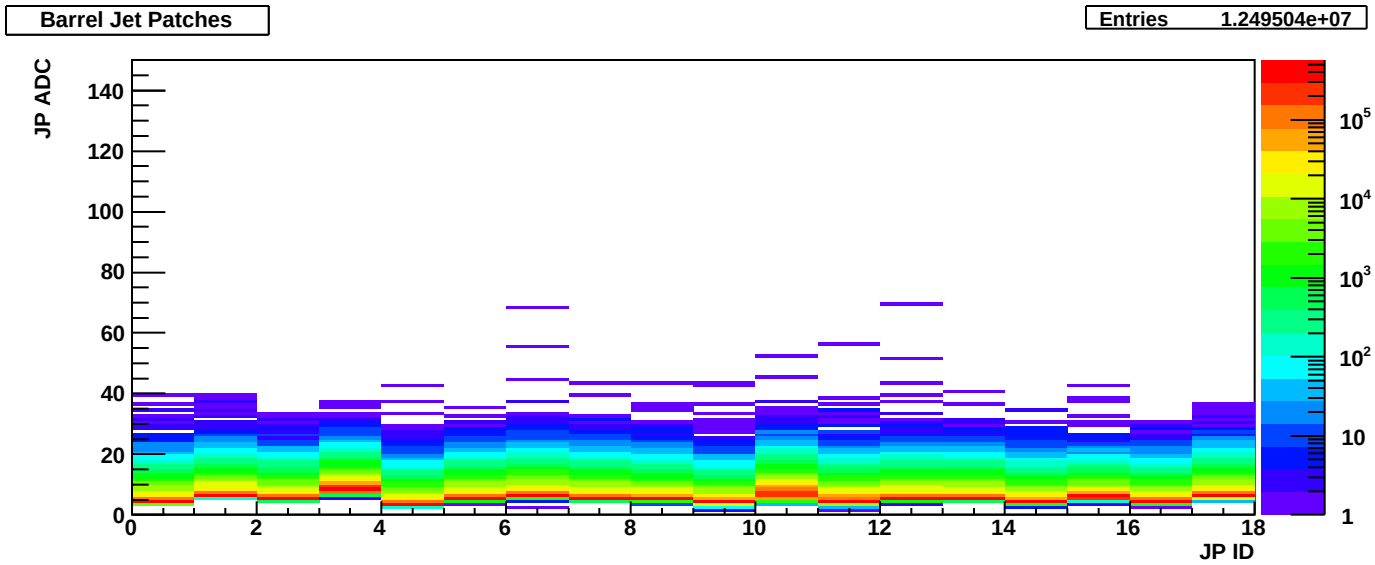

!Yellow-Fill
Entries 29378

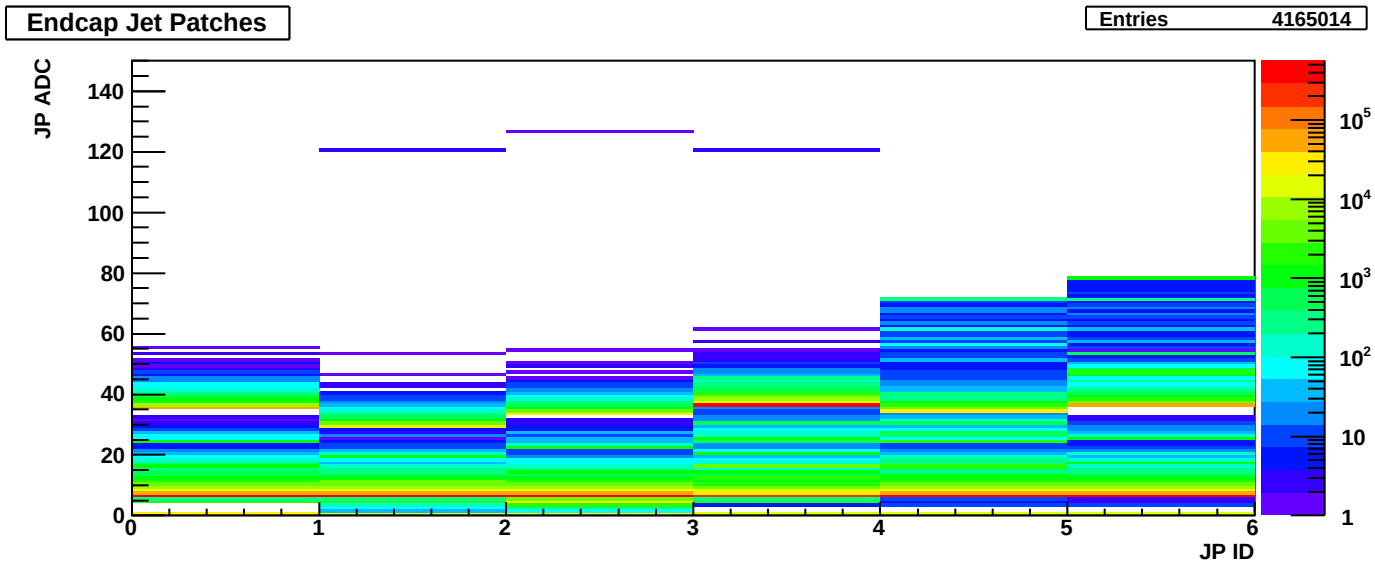

Barrel EMC L0 Input - High Tower
Entries 2.082507e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

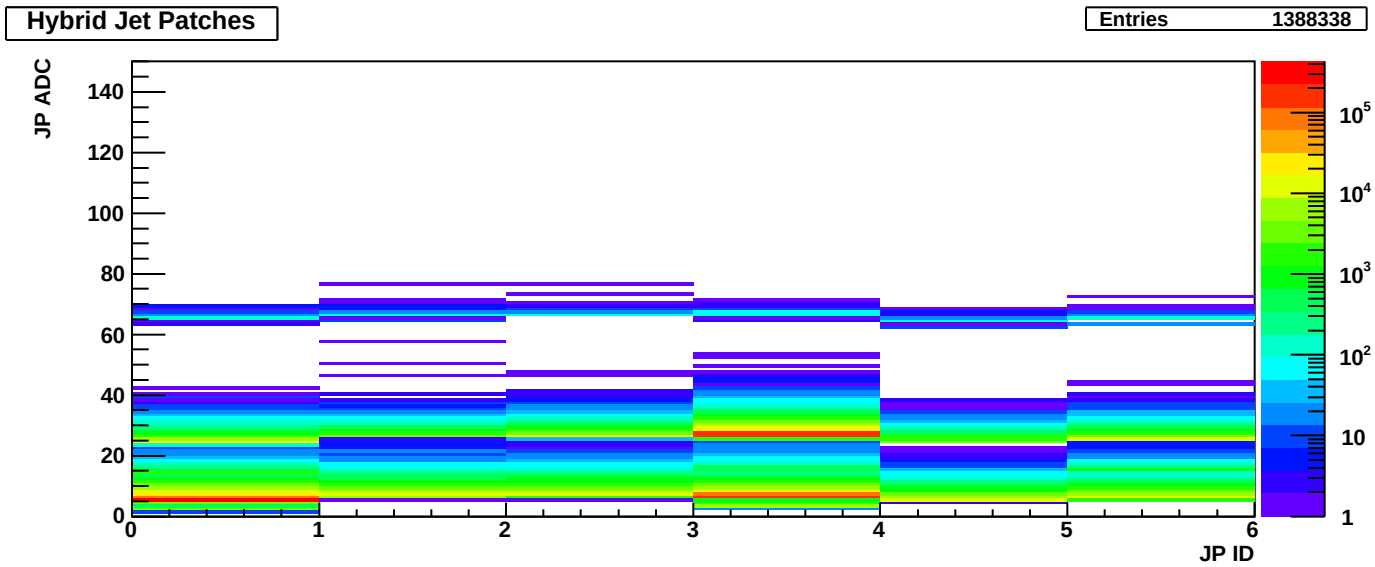

Barrel EMC L0 Input - Patch Sum
Entries 2.082507e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

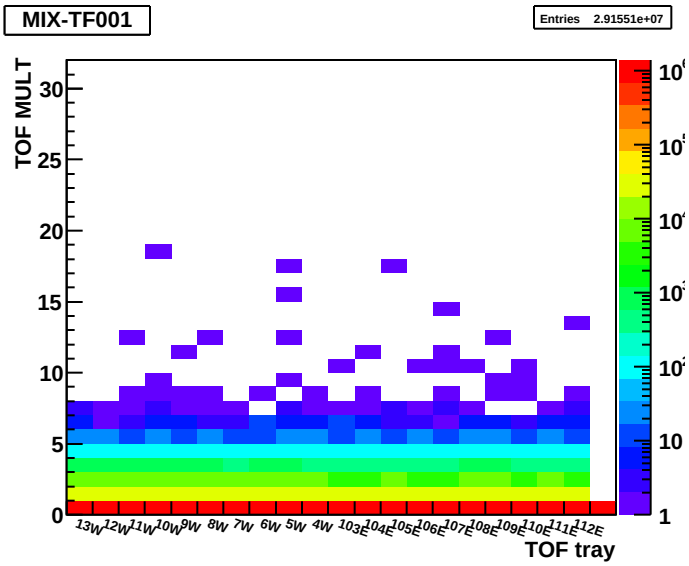

Endcap EMC L0 Input - High Tower
Entries 6.247521e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

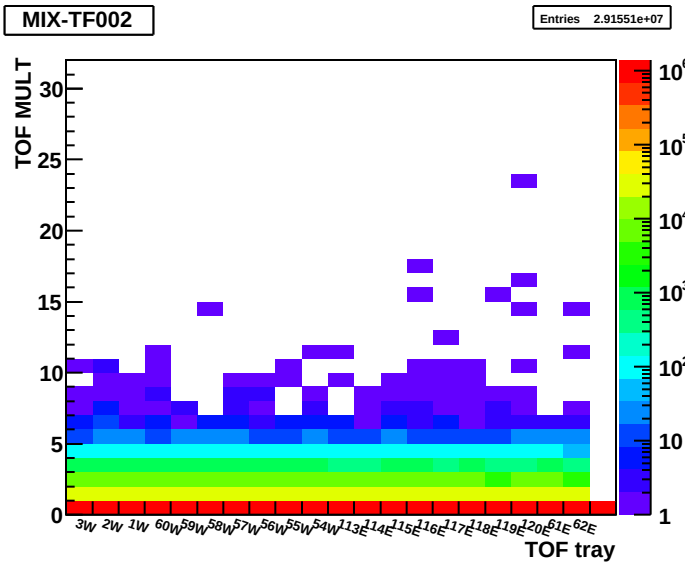

Endcap EMC L0 Input - Patch Sum
Entries 6.247521e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

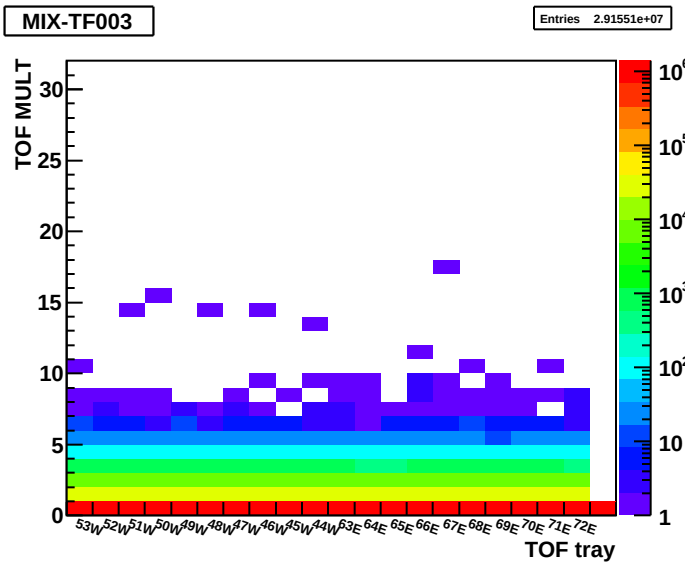

Barrel Jet Patches
Entries 1.249504e+07
JP ADC
JP ID

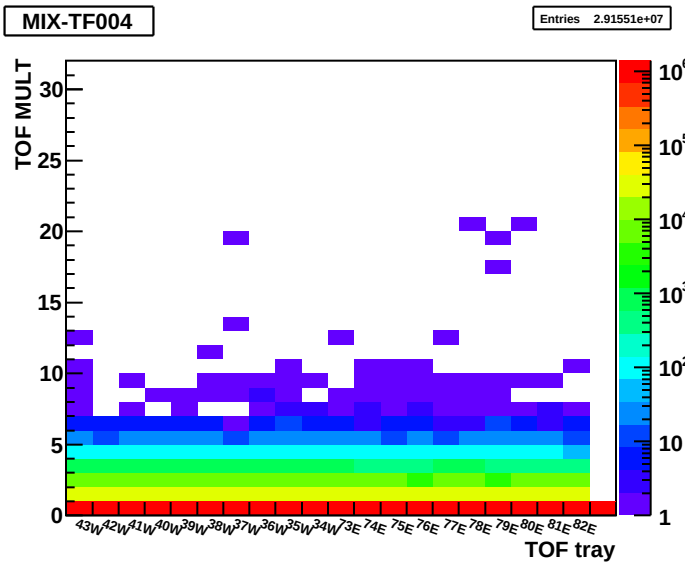

Endcap Jet Patches
Entries 4165014
JP ADC
JP ID

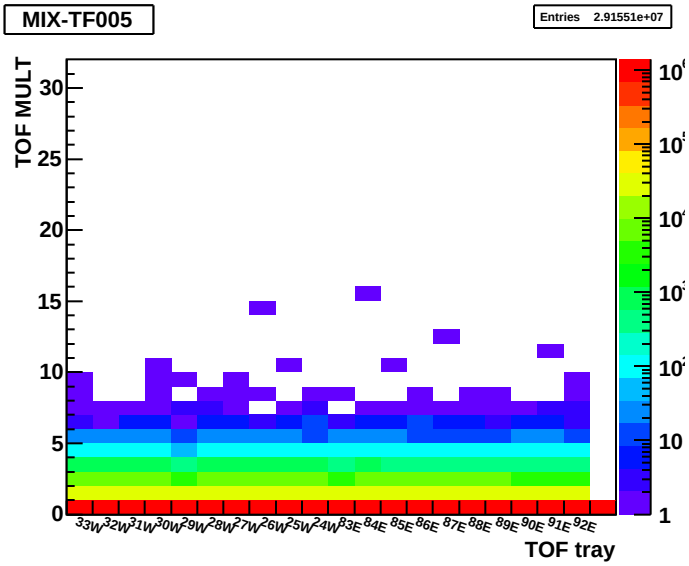

Hybrid Jet Patches
Entries 1388338
JP ADC
JP ID

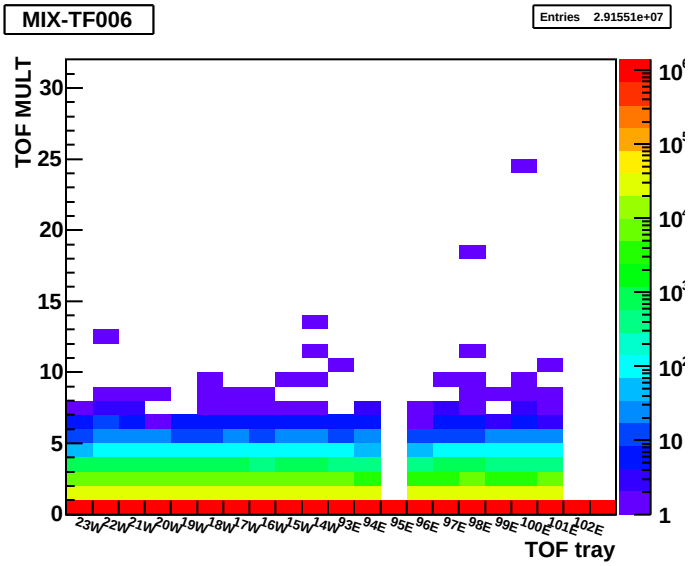

MIX-TF001
Entries 2.91551e+07
TOF MULT
TOF tray

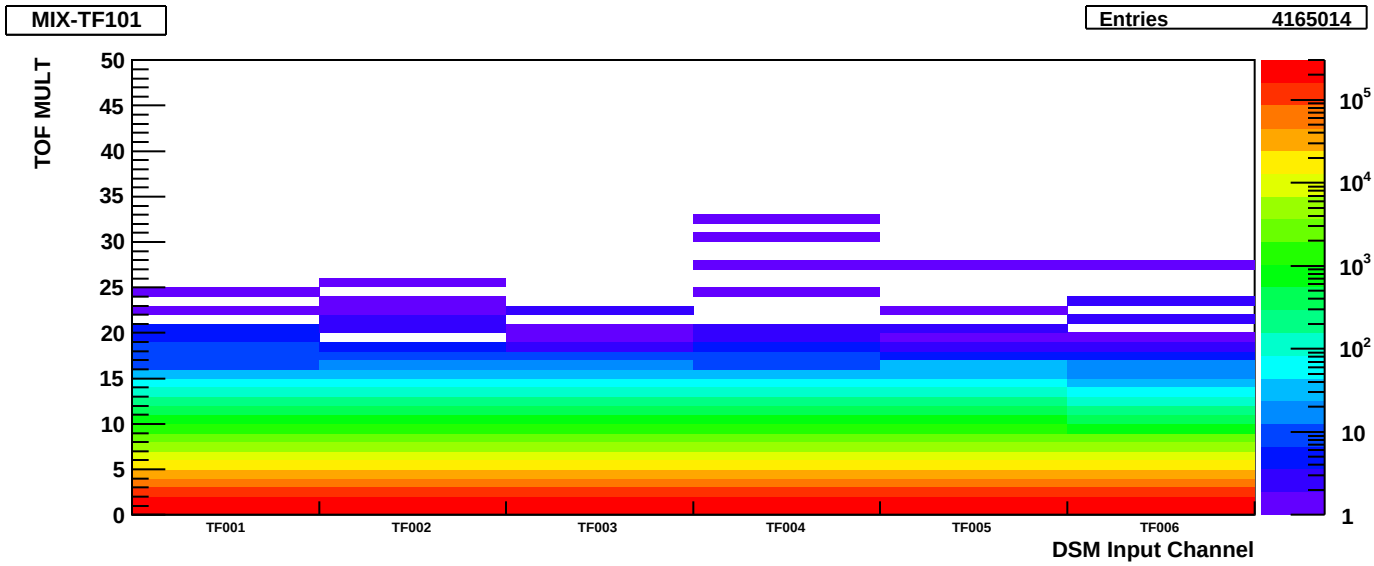

MIX-TF002
Entries 2.91551e+07
TOF MULT
TOF tray

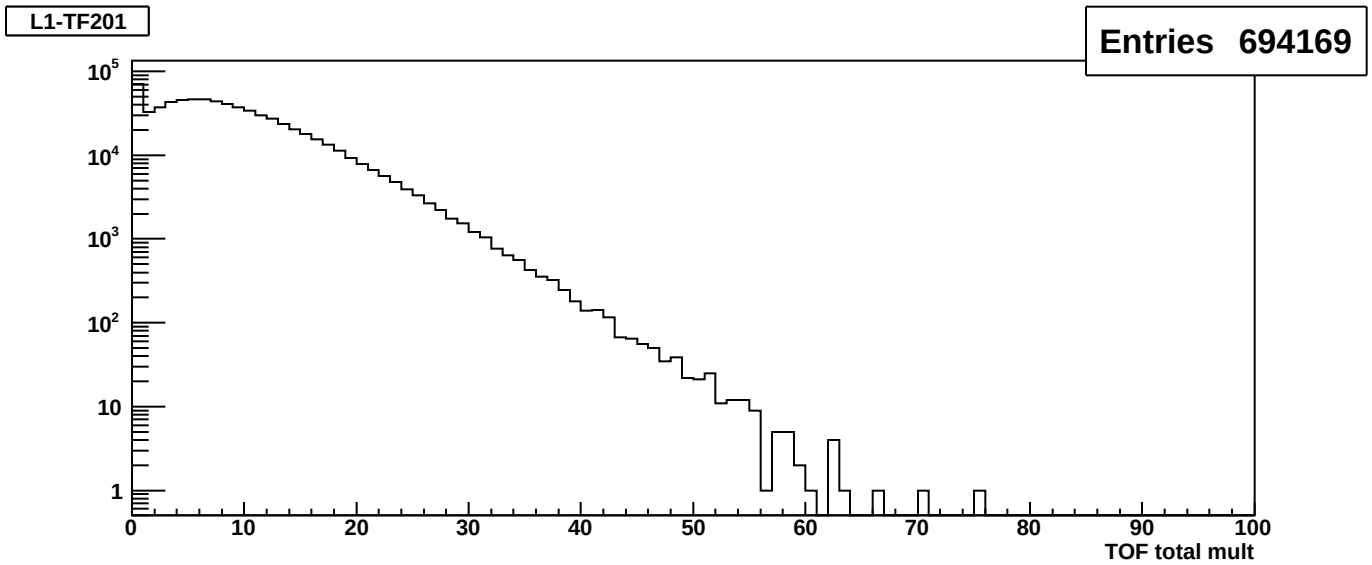

MIX-TF003
Entries 2.91551e+07
TOF MULT
TOF tray

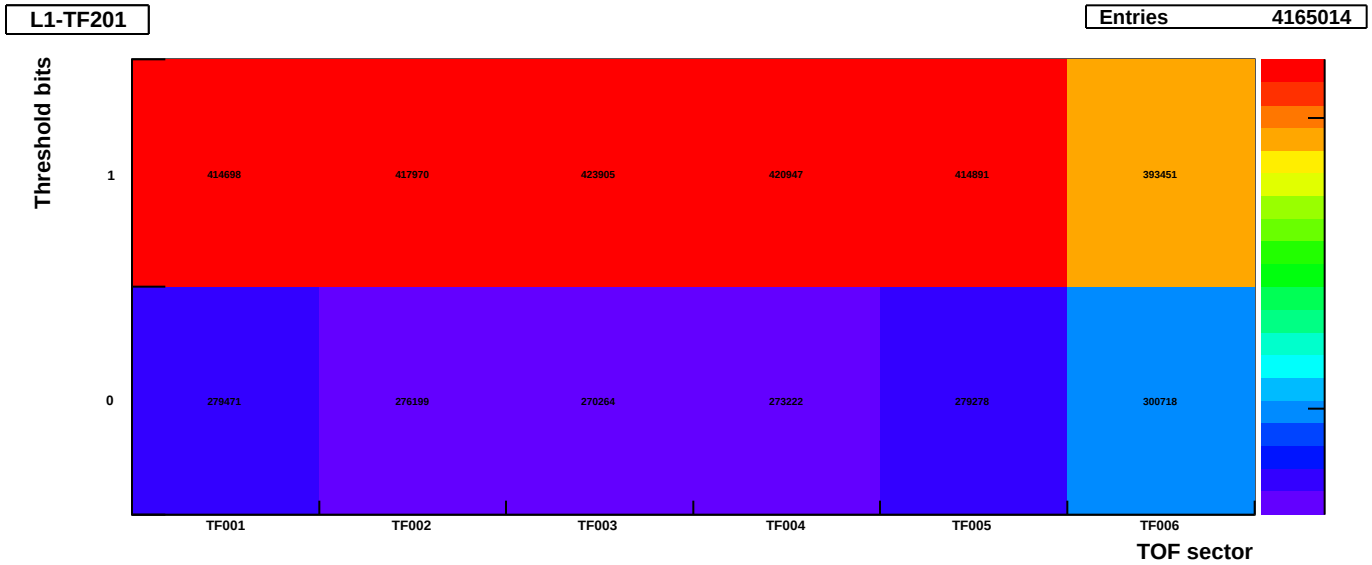

MIX-TF004
Entries 2.91551e+07
TOF MULT
TOF tray

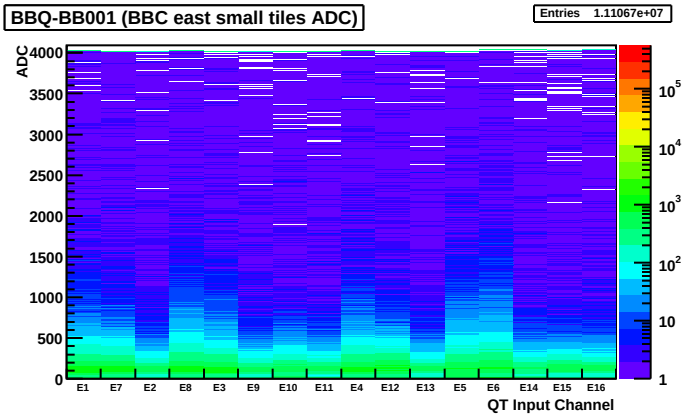

MIX-TF005
Entries 2.91551e+07
TOF MULT
TOF tray

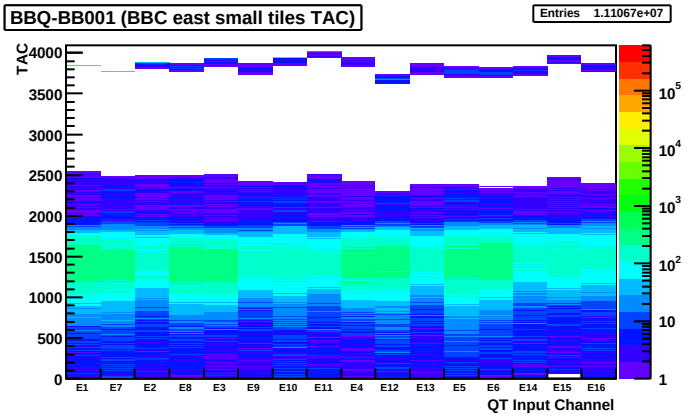

MIX-TF006
Entries 2.91551e+07
TOF MULT
TOF tray

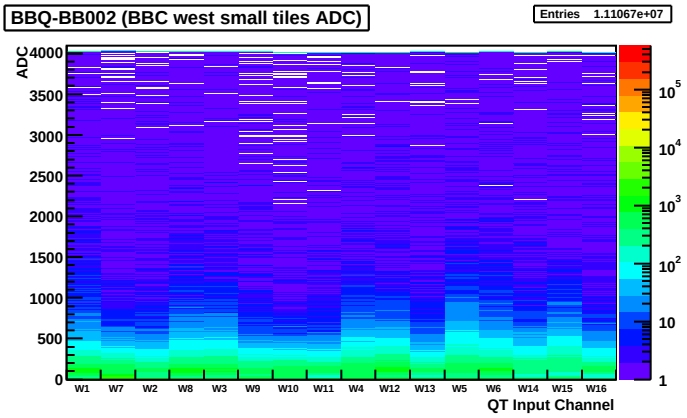

MIX-TF101
Entries 4165014
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

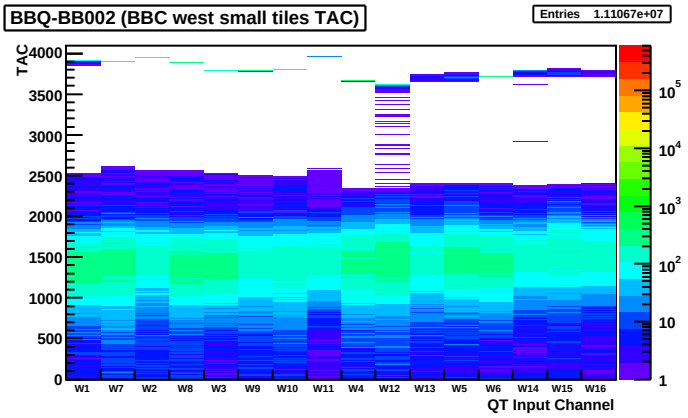

L1-TF201
Entries 694169
TOF total mult

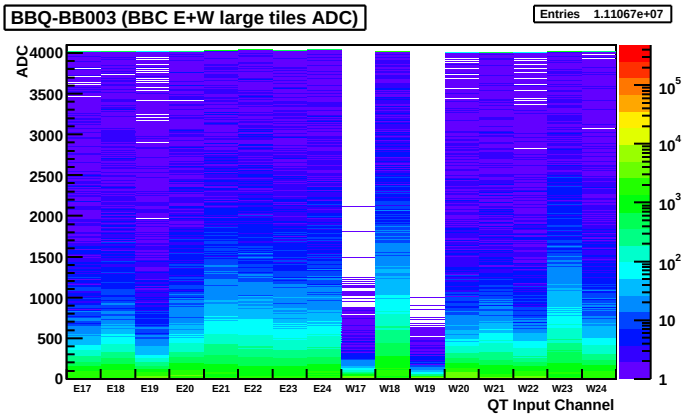

L1-TF201
Entries 4165014
Threshold bits
414698
417970
423905
420947
414891
393451
279471
276199
270264
273222
279278
300718
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

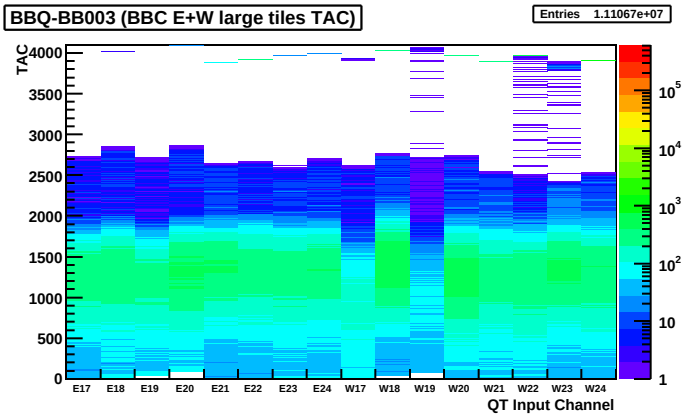

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.11067e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

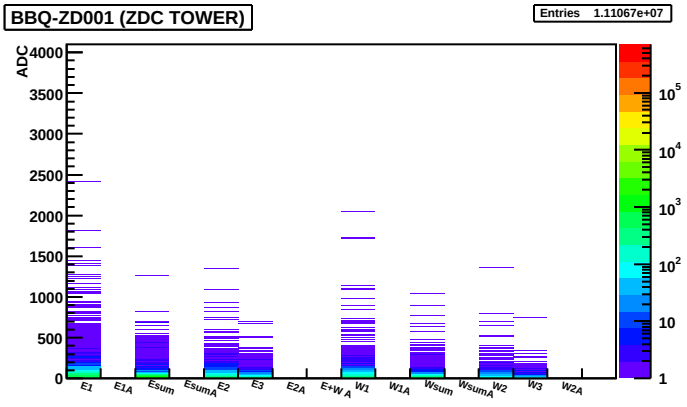

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.11067e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

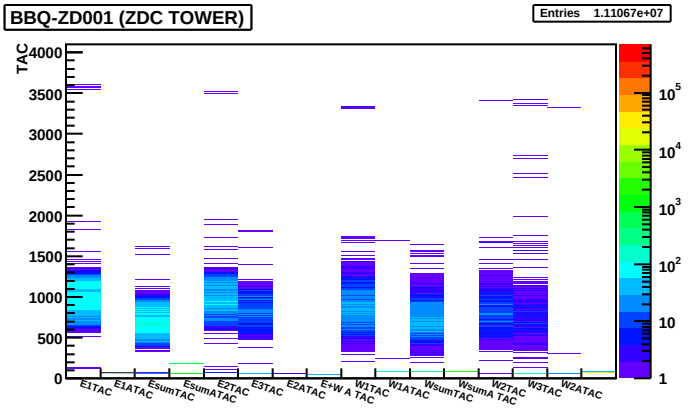

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.11067e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

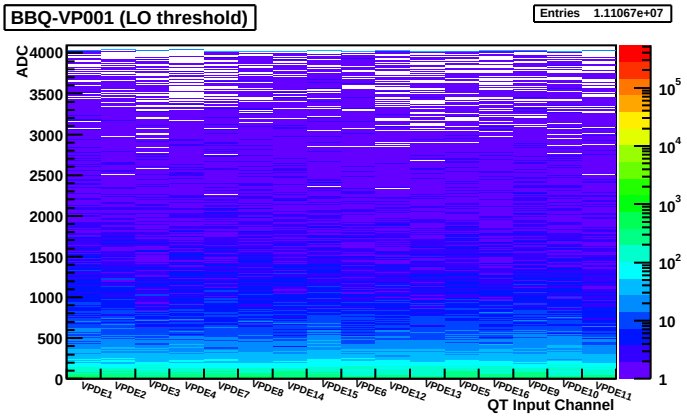

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.11067e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

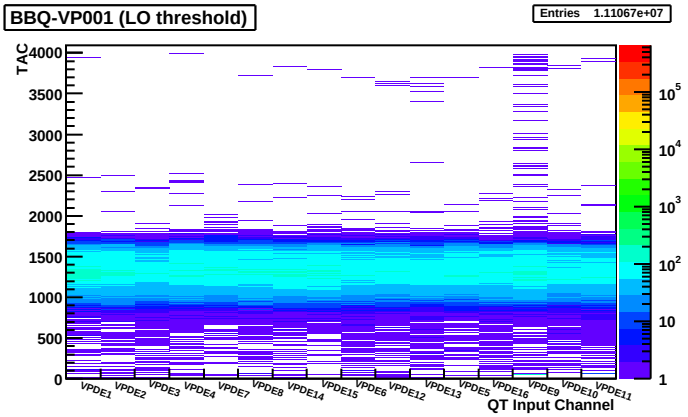

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.11067e+07
ADC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

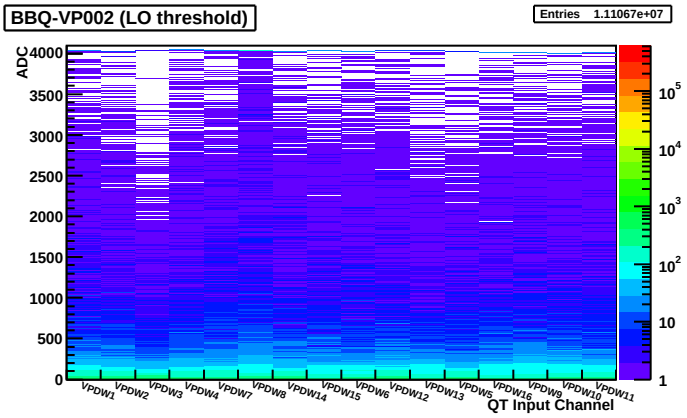

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.11067e+07
TAC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

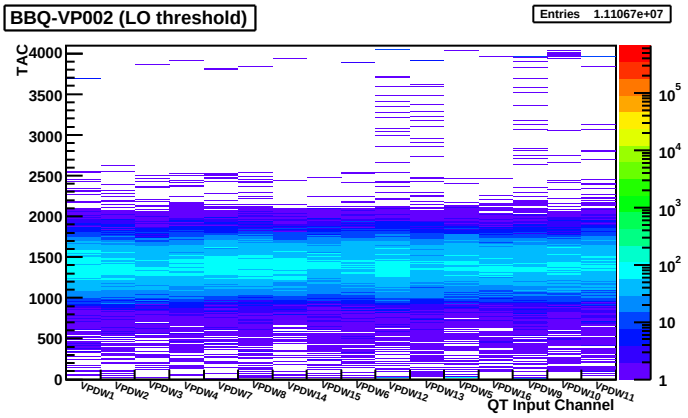

BBQ-ZD001 (ZDC TOWER)
Entries 1.11067e+07
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

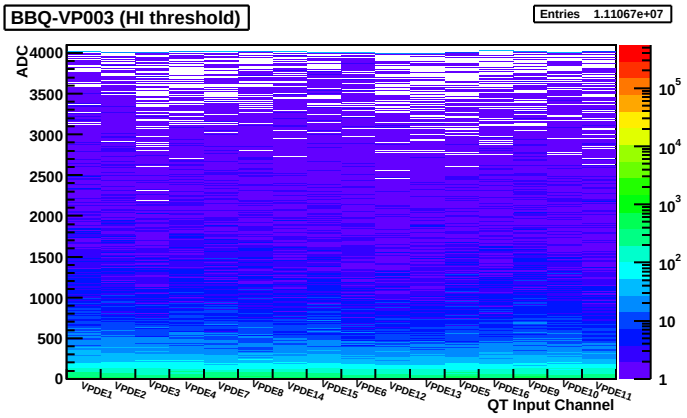

BBQ-ZD001 (ZDC TOWER)
Entries 1.11067e+07
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

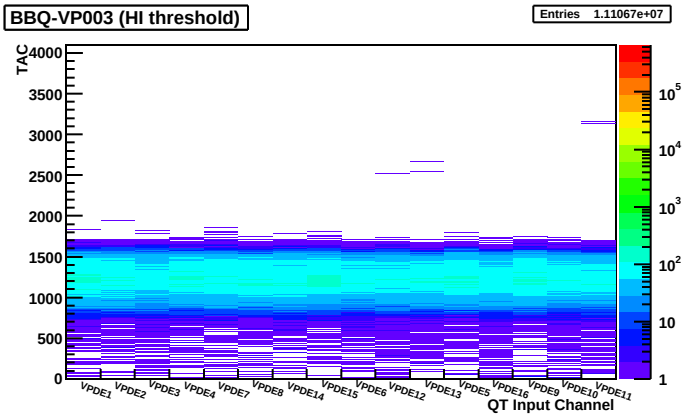

BBQ-VP001 (LO threshold)
Entries 1.11067e+07
ADC
QT Input Channel

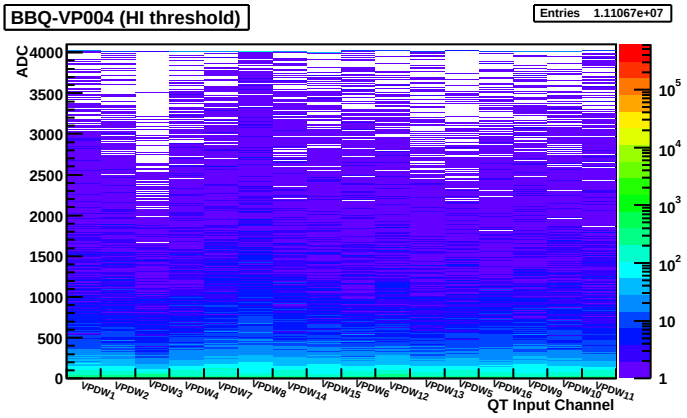

BBQ-VP001 (LO threshold)
Entries 1.11067e+07
TAC
QT Input Channel

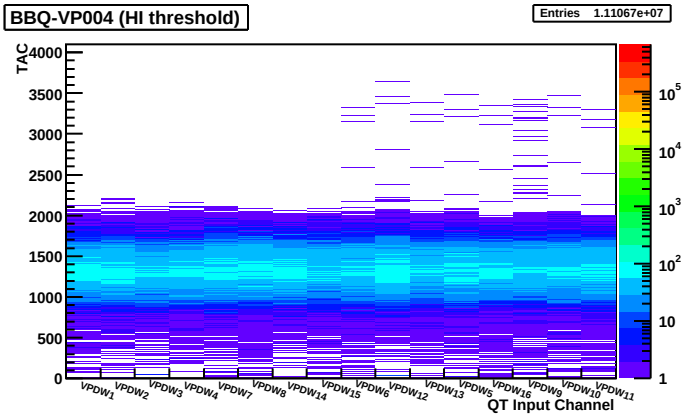

BBQ-VP002 (LO threshold)
Entries 1.11067e+07
ADC
QT Input Channel

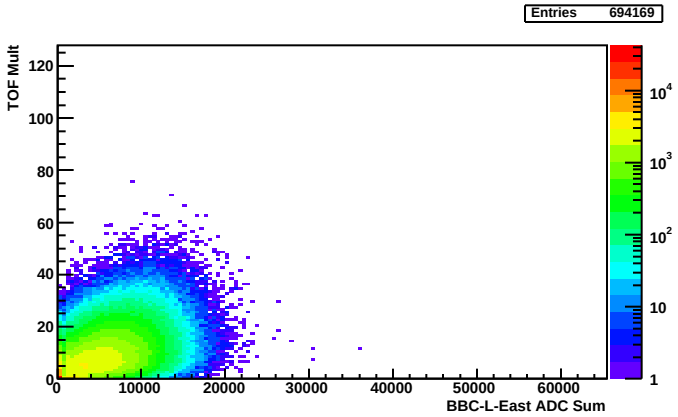

BBQ-VP002 (LO threshold)
Entries 1.11067e+07
TAC
QT Input Channel

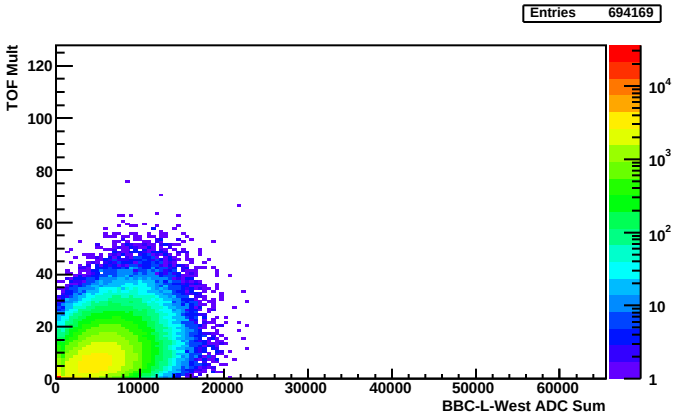

BBQ-VP003 (HI threshold)
Entries 1.11067e+07
ADC
QT Input Channel

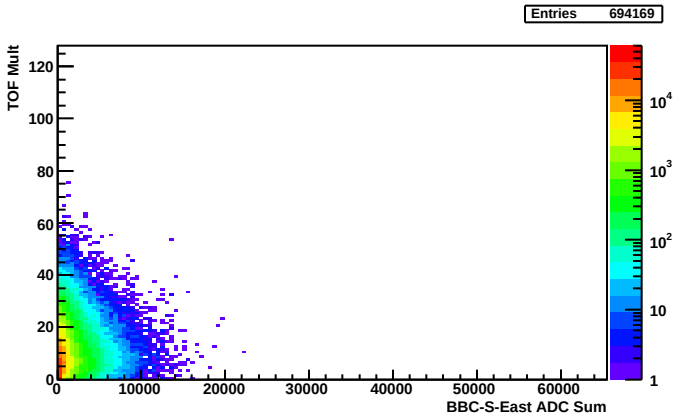

BBQ-VP003 (HI threshold)
Entries 1.11067e+07
TAC
QT Input Channel

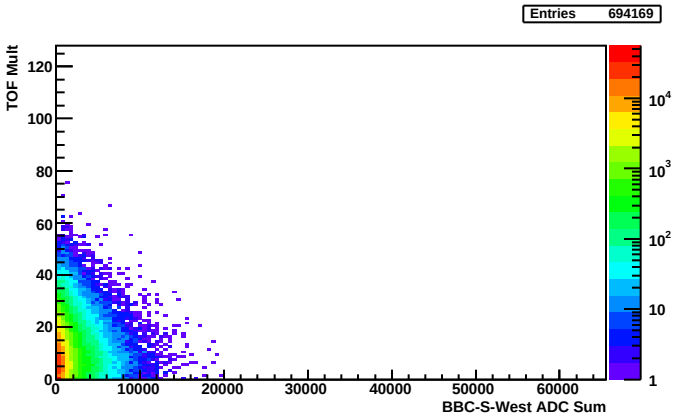

BBQ-VP004 (HI threshold)
Entries 1.11067e+07
ADC
QT Input Channel

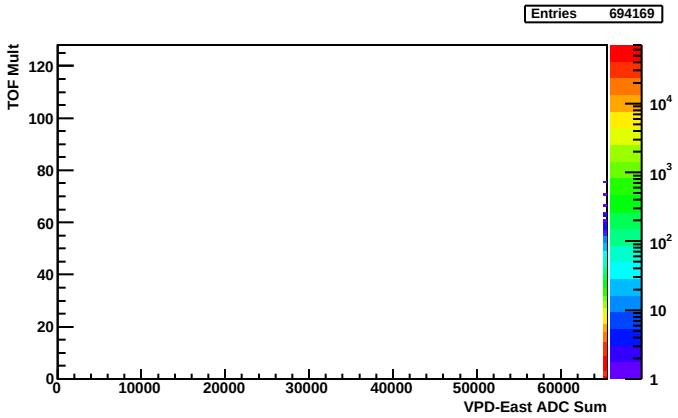

BBQ-VP004 (HI threshold)
Entries 1.11067e+07
TAC
QT Input Channel

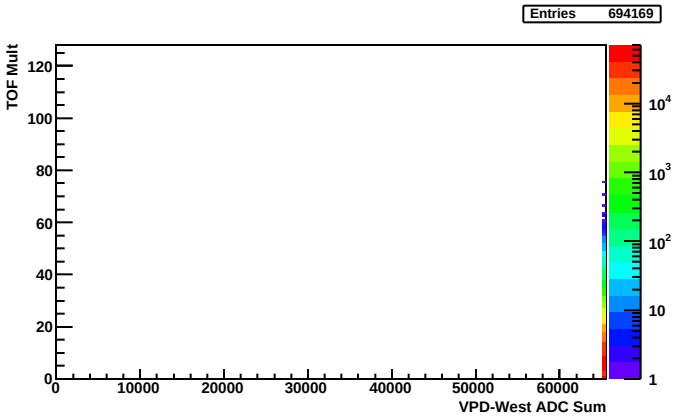

Entries 694169
TOF Mult
BBC-L-East ADC Sum

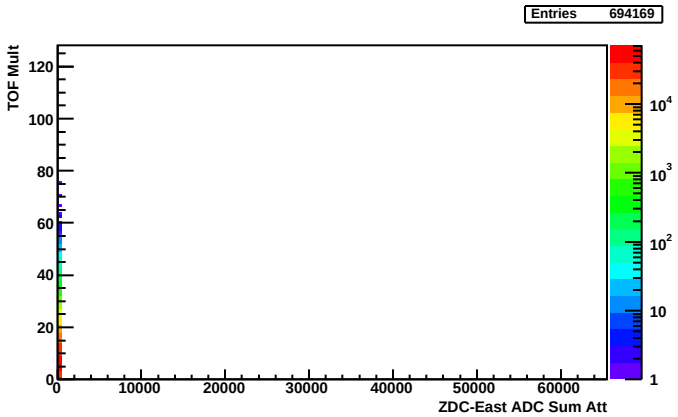

Entries 694169
TOF Mult
BBC-L-West ADC Sum

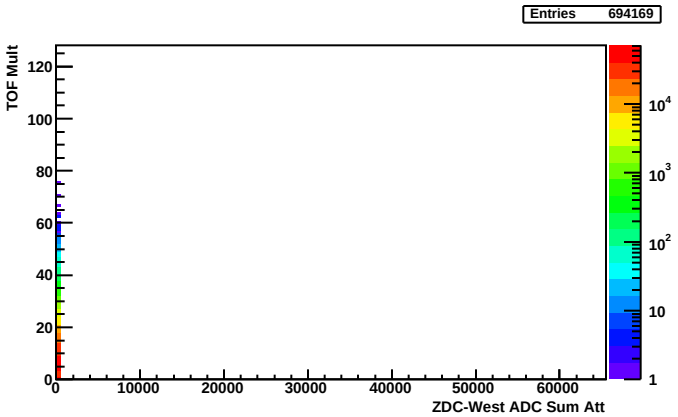

Entries 694169
TOF Mult
BBC-S-East ADC Sum

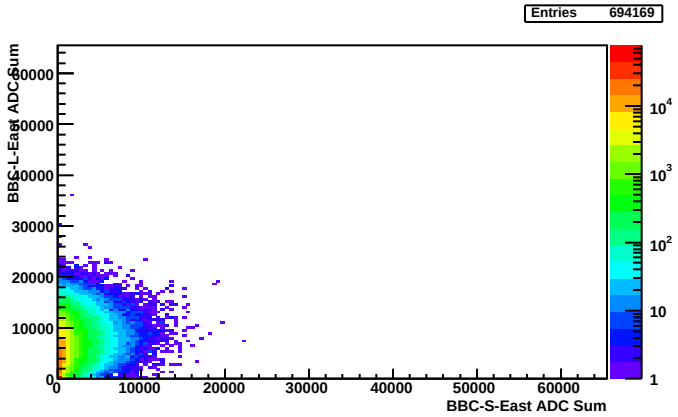

Entries 694169
TOF Mult
BBC-S-West ADC Sum

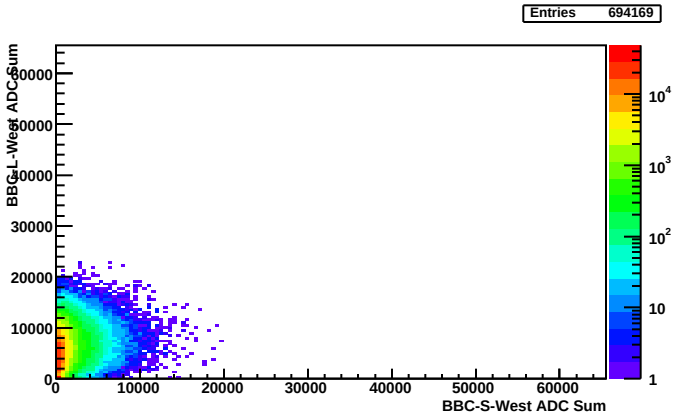

Entries 694169
TOF Mult
VPD-East ADC Sum

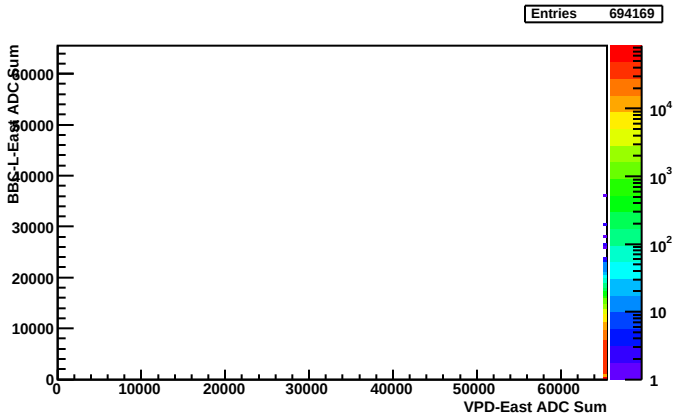

Entries 694169
TOF Mult
VPD-West ADC Sum

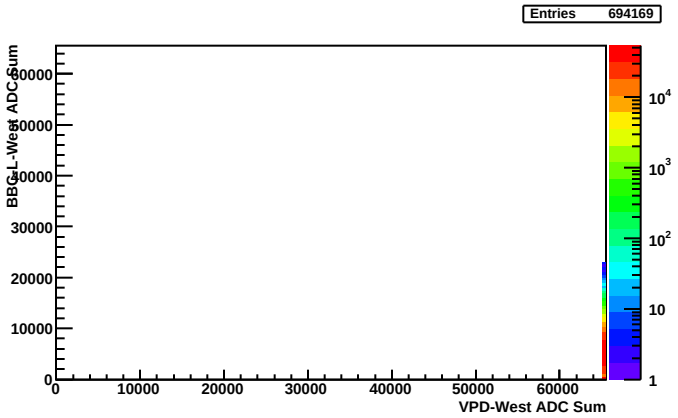

Entries 694169
TOF Mult
ZDC-East ADC Sum Att

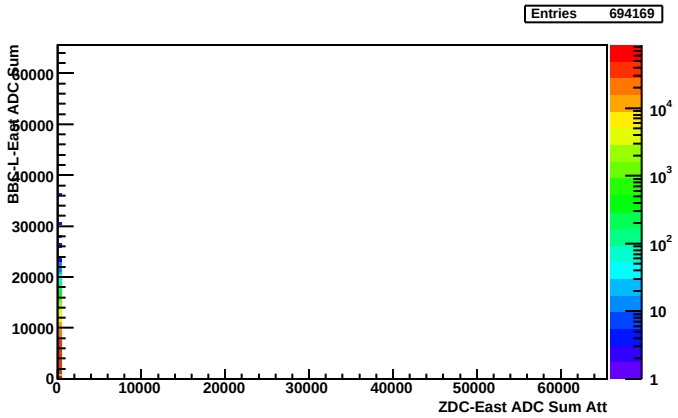

Entries 694169
TOF Mult
ZDC-West ADC Sum Att

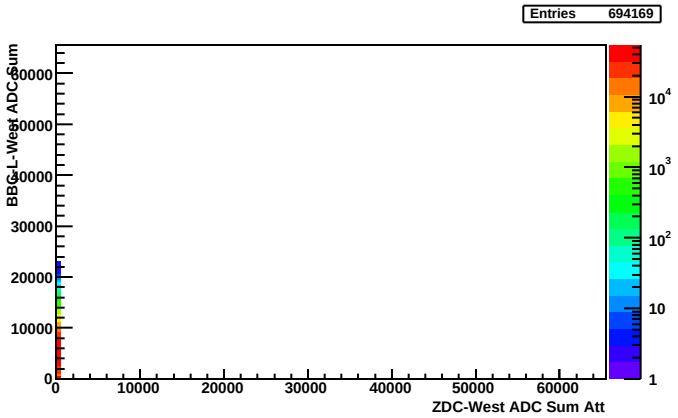

Entries 694169
BBC-L-East ADC Sum
BBC-S-East ADC Sum

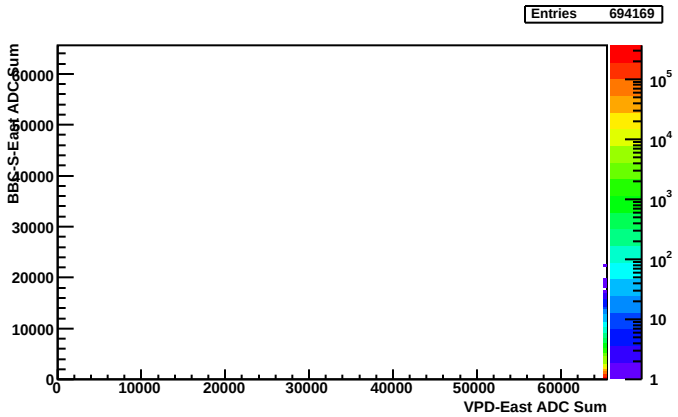

Entries 694169
BBC-L-West ADC Sum
BBC-S-West ADC Sum

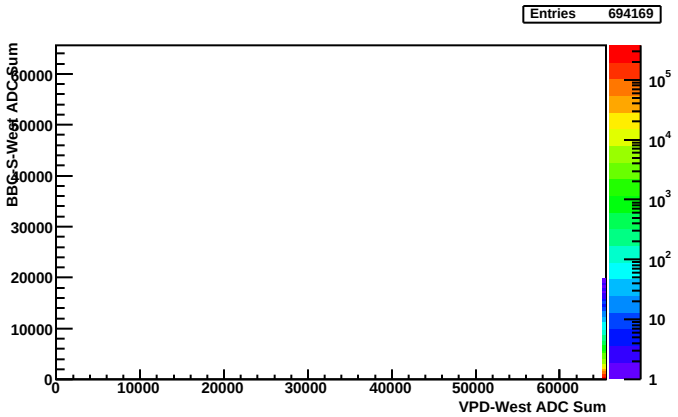

Entries 694169
BBC-L-East ADC Sum
VPD-East ADC Sum

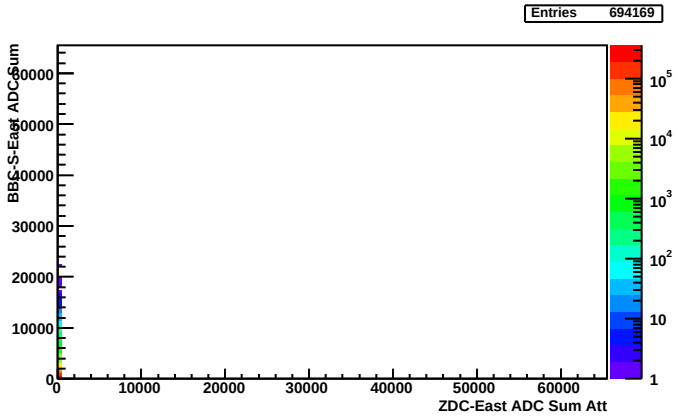

Entries 694169
BBC-L-West ADC Sum
VPD-West ADC Sum

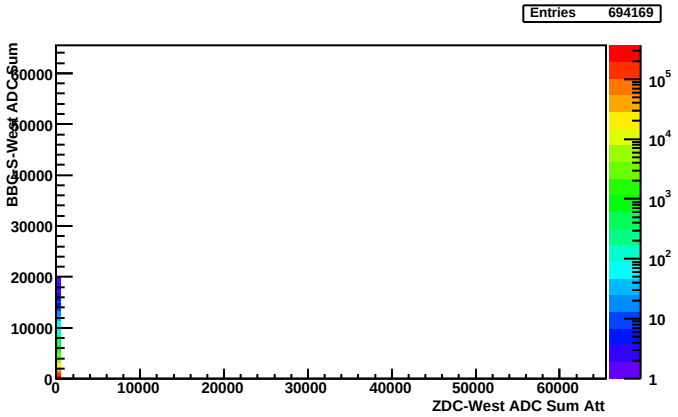

Entries 694169
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

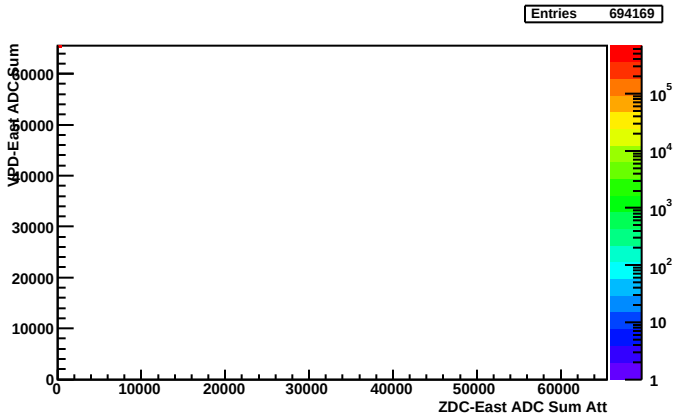

Entries 694169
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

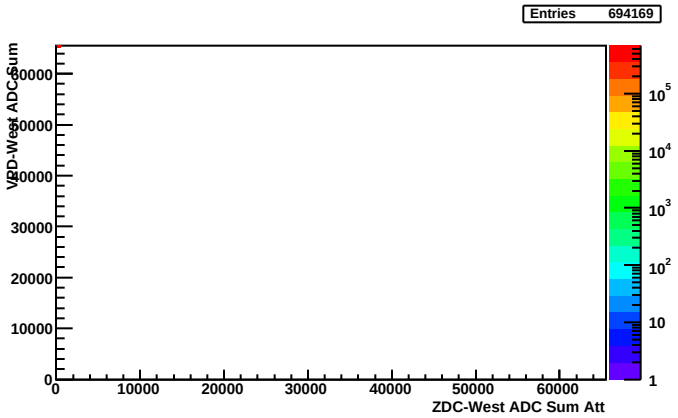

Entries 694169
BBC-S-East ADC Sum
VPD-East ADC Sum

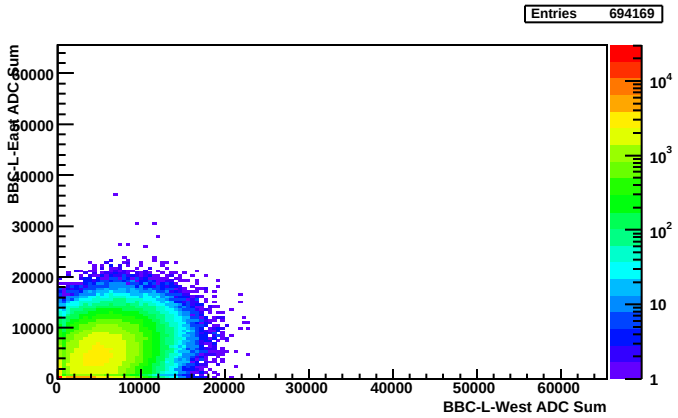

Entries 694169
BBC-S-West ADC Sum
VPD-West ADC Sum

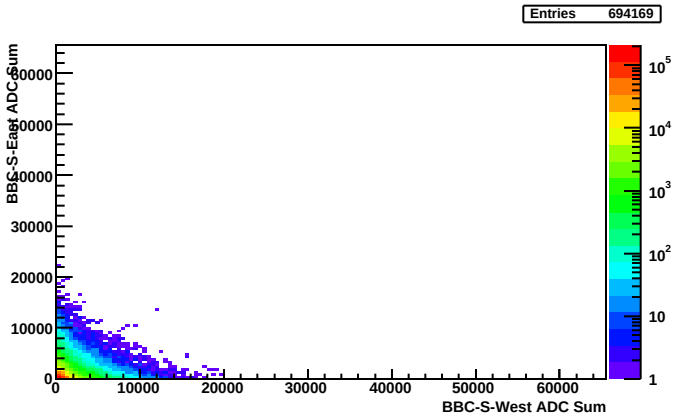

Entries 694169
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

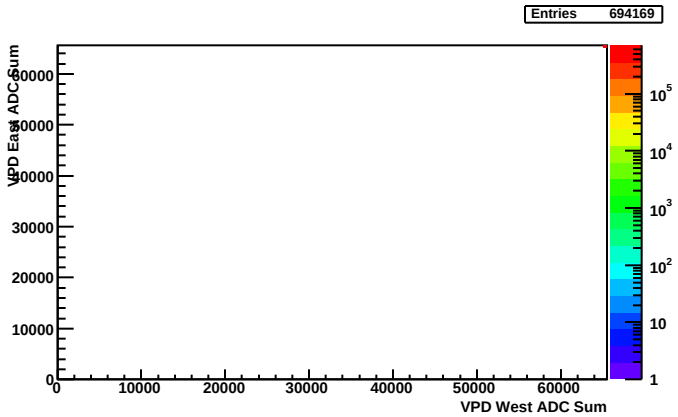

Entries 694169
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

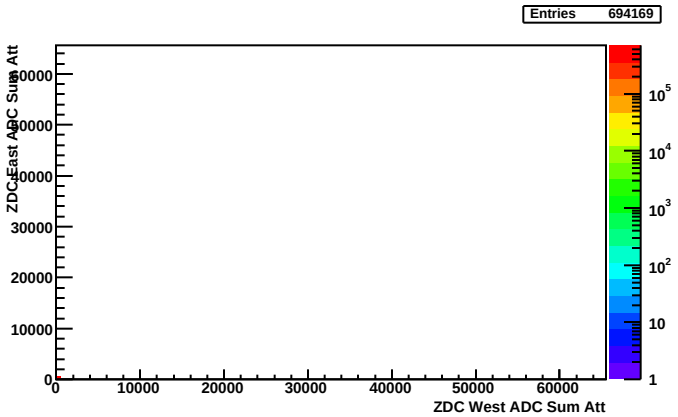

Entries 694169
VPD-East ADC Sum
ZDC-East ADC Sum Att

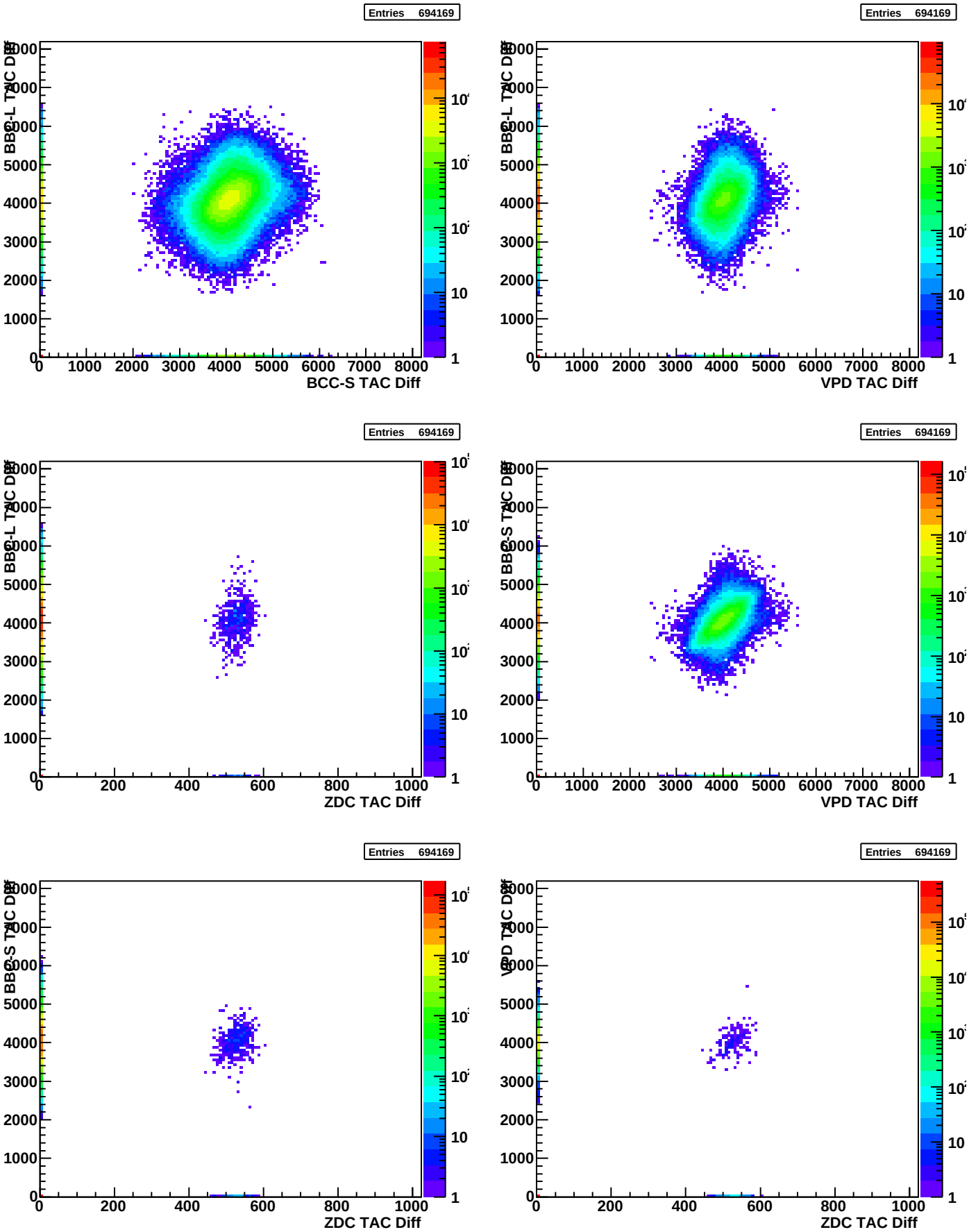

Entries 694169
VPD-West ADC Sum
ZDC-West ADC Sum Att

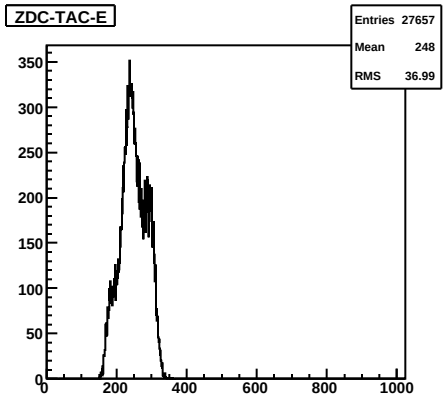

Entries 694169
BBC-L-East ADC Sum
BBC-L-West ADC Sum

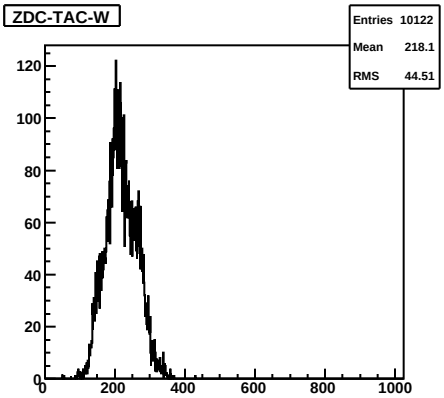

Entries 694169
BBC-S-East ADC Sum
BBC-S-West ADC Sum

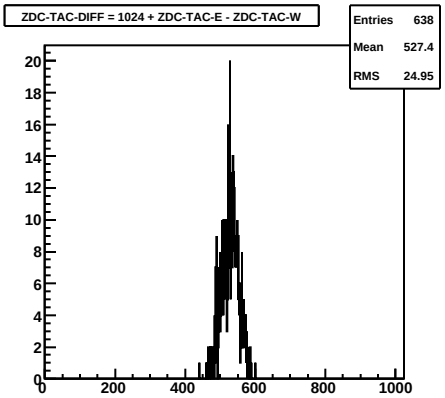

Entries 694169
VPD East ADC Sum
VPD West ADC Sum

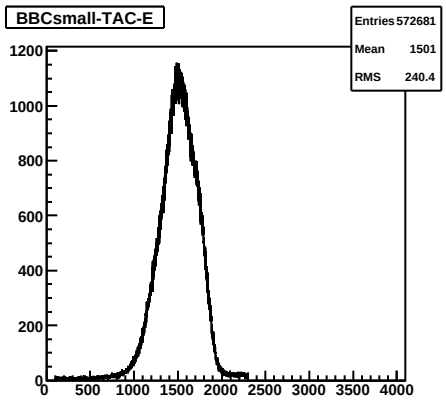

Entries 694169
ZDC East ADC Sum Att
ZDC West ADC Sum Att

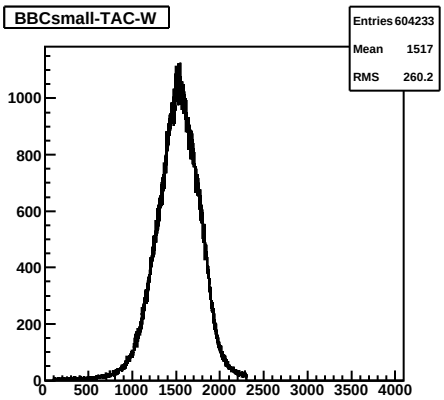

Entries 694169
BBC-L TAC Diff
BCC-S TAC Diff
Entries 694169
BBC-L TAC Diff
VPD TAC Diff
Entries 694169
BBC-L TAC Diff
ZDC TAC Diff
Entries 694169
BBC-S TAC Diff
VPD TAC Diff
Entries 694169
BBC-S TAC Diff
ZDC TAC Diff
Entries 694169
VPD TAC Diff
ZDC TAC Diff

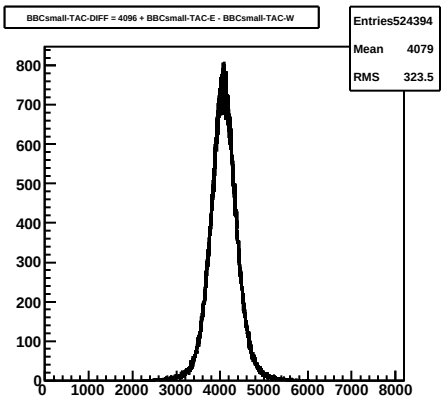

ZDC-TAC-E
Entries 27657
Mean 248
RMS 36.99

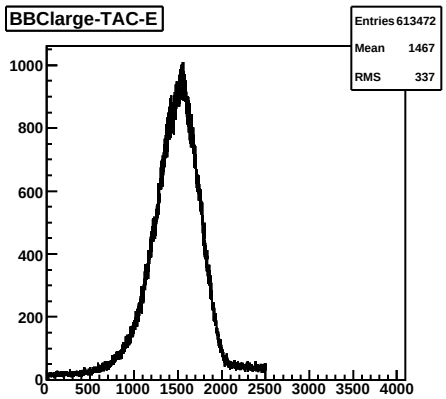

ZDC-TAC-W
Entries 10122
Mean 218.1
RMS 44.51

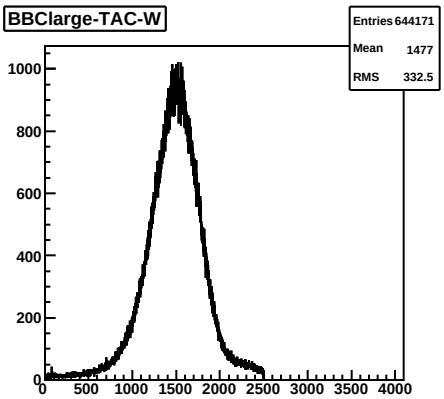

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 638
Mean 527.4
RMS 24.95

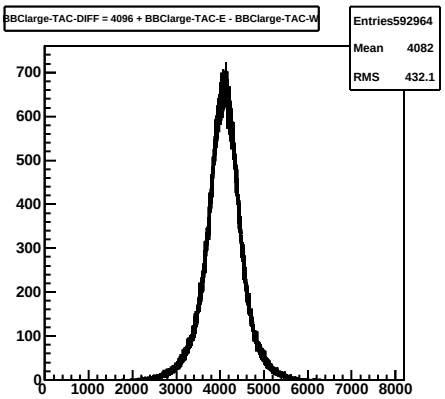

BBCsmall-TAC-E
Entries 572681
Mean 1501
RMS 240.4

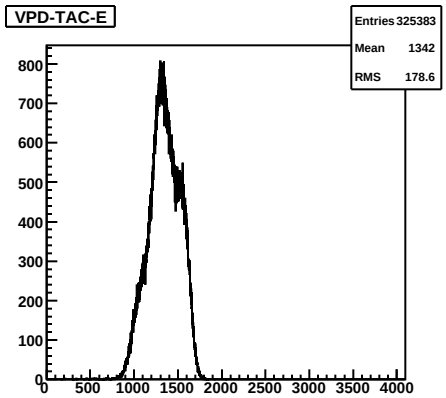

BBCsmall-TAC-W
Entries 604233
Mean 1517
RMS 260.2

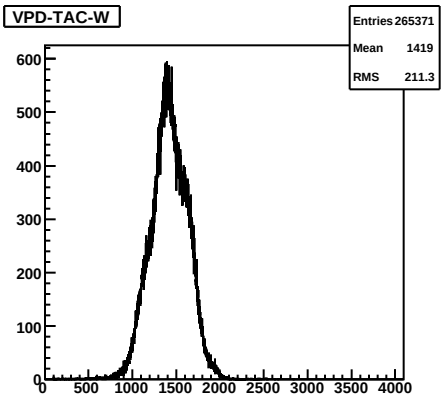

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries524394
Mean 4079
RMS 323.5

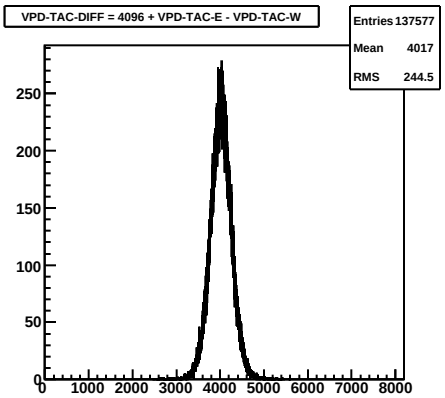

BBClarge-TAC-E
Entries 613472
Mean 1467
RMS 337

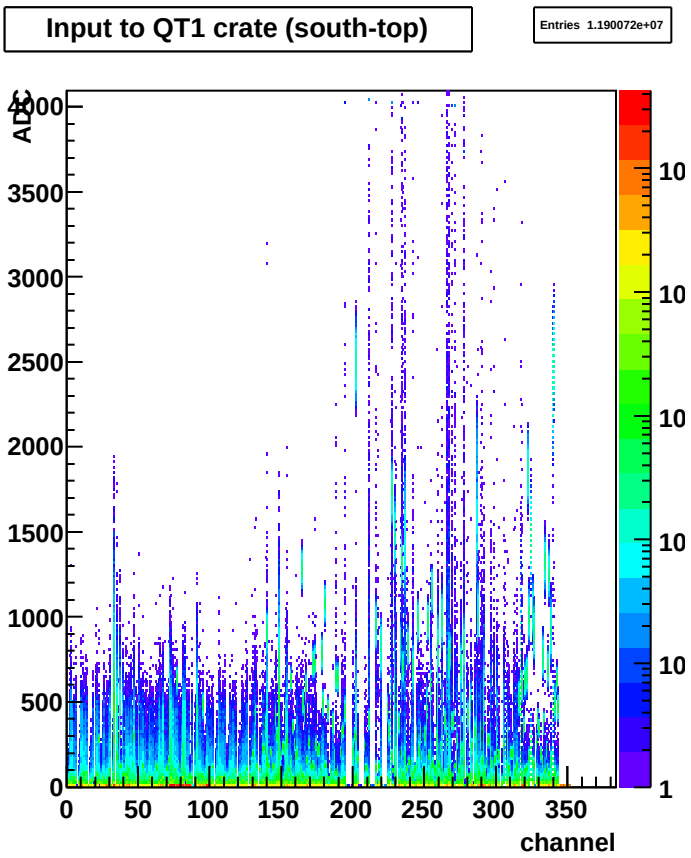

BBClarge-TAC-W
Entries 644171
Mean 1477
RMS 332.5

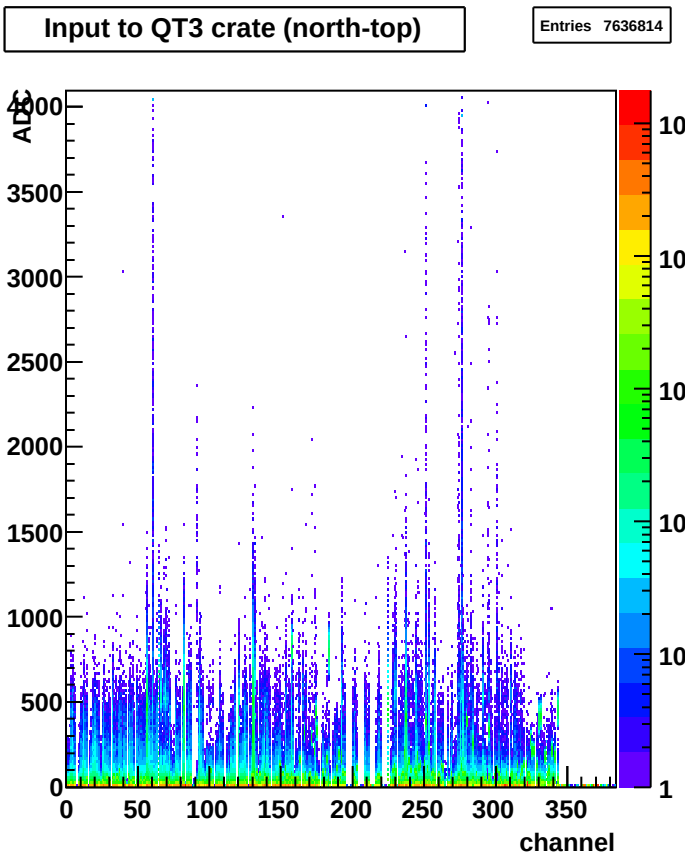

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries592964
Mean 4082
RMS 432.1

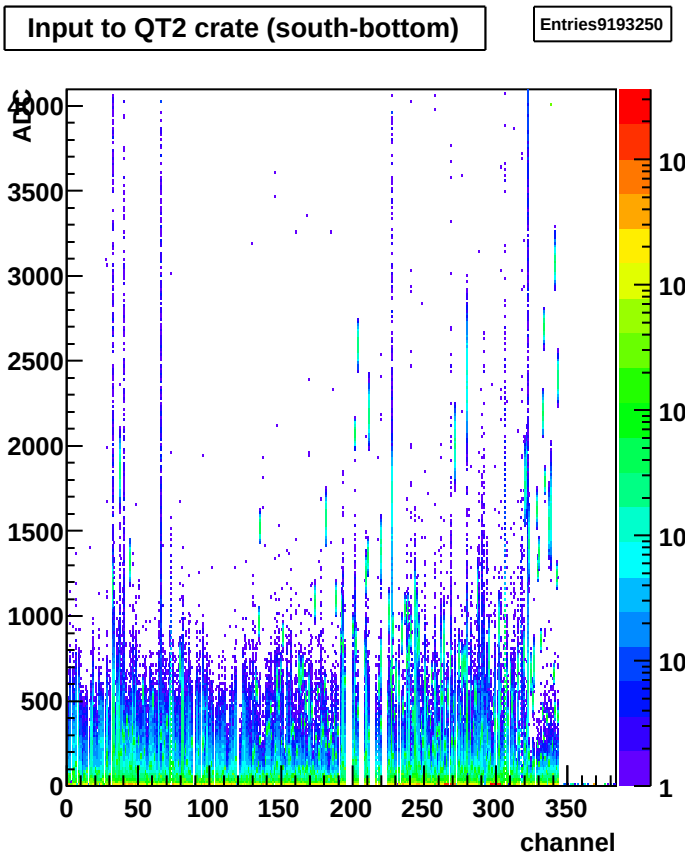

VPD-TAC-E
Entries 325383
Mean 1342
RMS 178.6

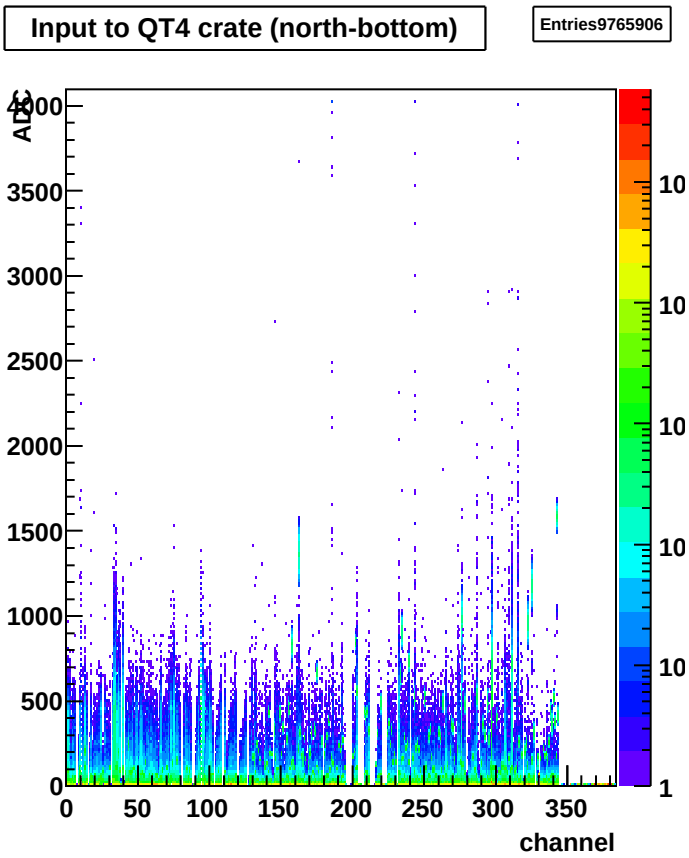

VPD-TAC-W
Entries 265371
Mean 1419
RMS 211.3

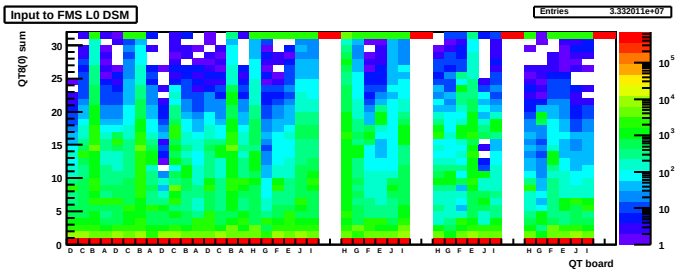

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 137577
Mean 4017
RMS 244.5

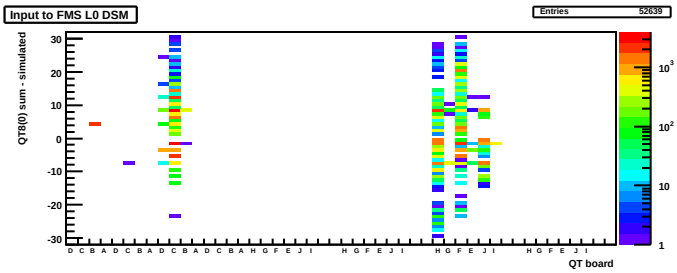

Input to QT1 crate (south-top)
Entries 1.190072e+07
ADC
channel

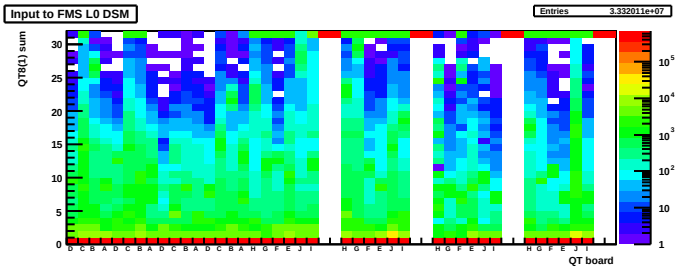

Input to QT3 crate (north-top)
Entries 7636814
ADC
channel

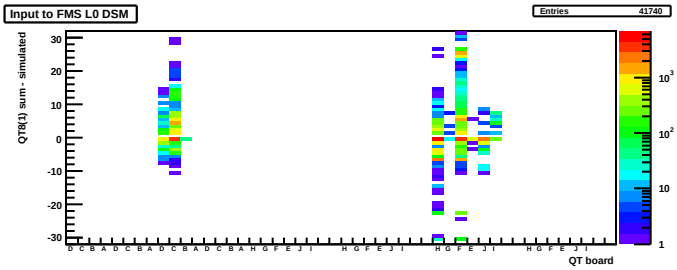

Input to QT2 crate (south-bottom)
Entries9193250
ADC
channel

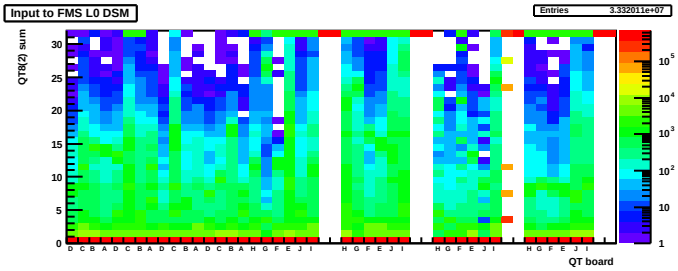

Input to QT4 crate (north-bottom)
Entries9765906
ADC
channel

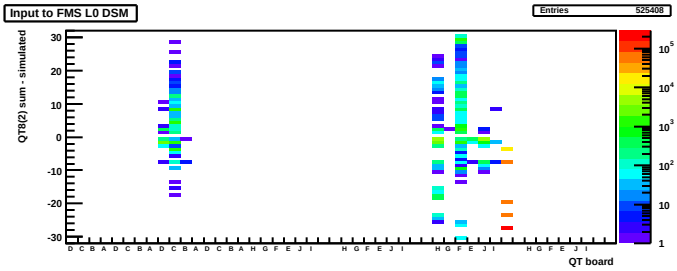

Input to FMS L0 DSM
Entries 3.332011e+07
QT8(0) sum
QT board

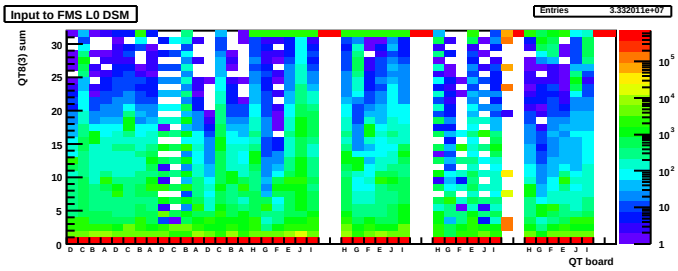

Input to FMS L0 DSM
Entries 52639
QT8(0) sum - simulated
QT board

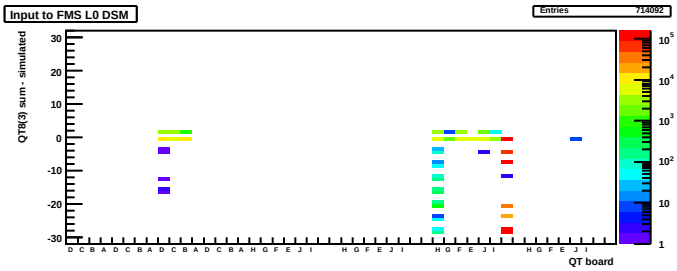

Input to FMS L0 DSM
Entries 3.332011e+07
QT8(1) sum
QT board

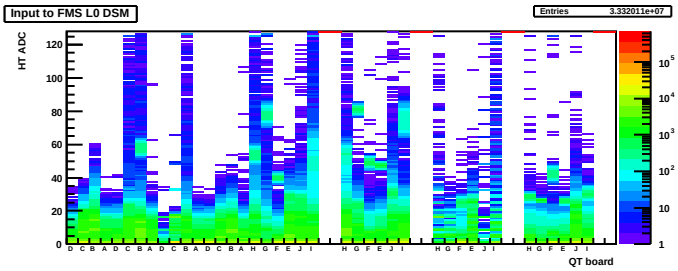

Input to FMS L0 DSM
Entries 41740
QT8(1) sum - simulated
QT board

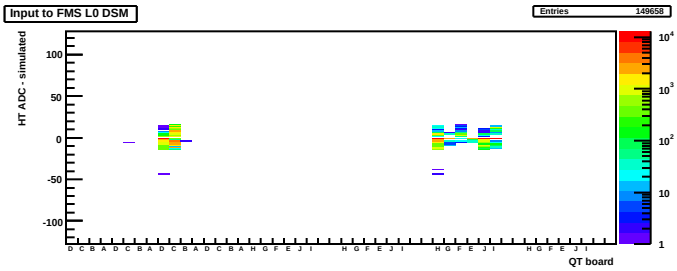

Input to FMS L0 DSM
Entries 3.332011e+07
QT8(2) sum
QT board

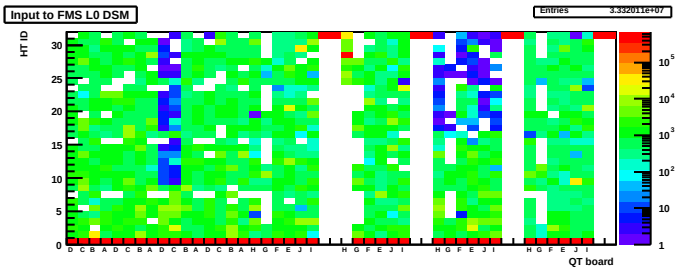

Input to FMS L0 DSM
Entries 525408
QT8(2) sum - simulated
QT board

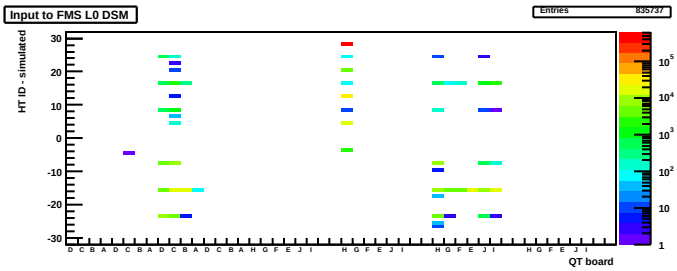

Input to FMS L0 DSM
Entries 3.332011e+07
QT8(3) sum
QT board

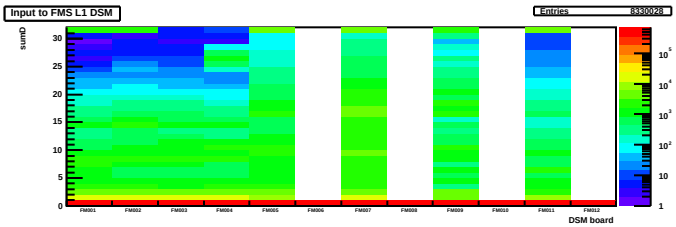

Input to FMS L0 DSM
Entries 714092
QT8(3) sum - simulated
QT board

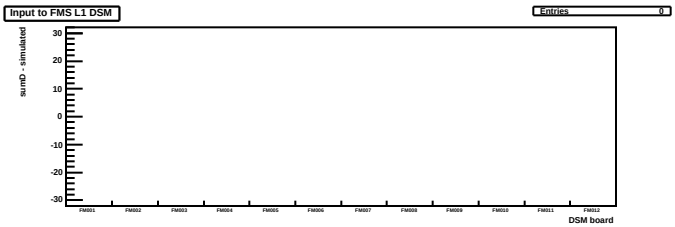

Input to FMS L0 DSM
Entries 3.332011e+07
HT ADC
QT board

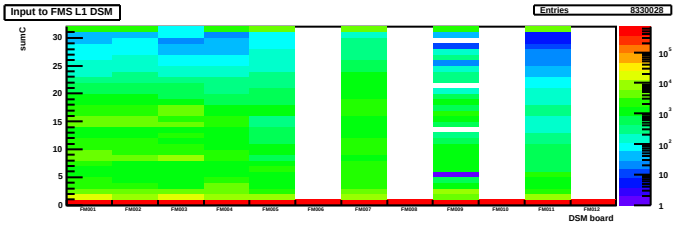

Input to FMS L0 DSM
Entries 149658
HT ADC - simulated
QT board

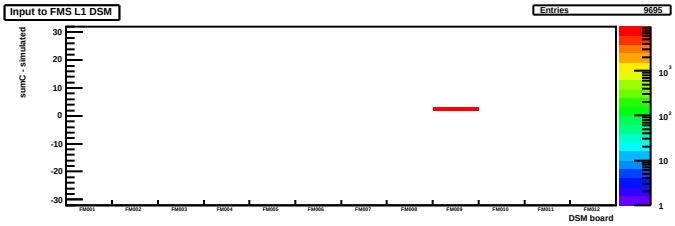

Input to FMS L0 DSM
Entries 3.332011e+07
HT ID
QT board

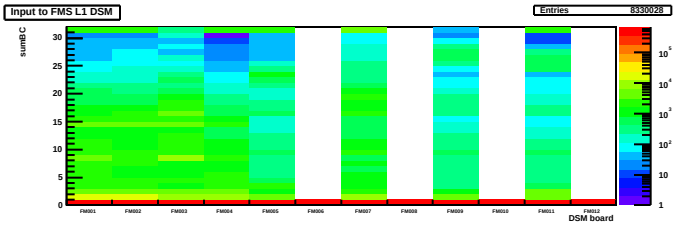

Input to FMS L0 DSM
Entries 835737
HT ID - simulated
QT board

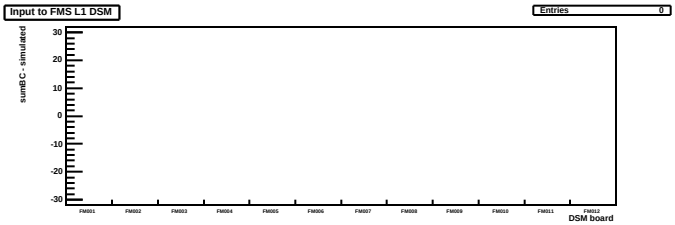

Input to FMS L1 DSM
Entries 8330028
sumD
DSM board

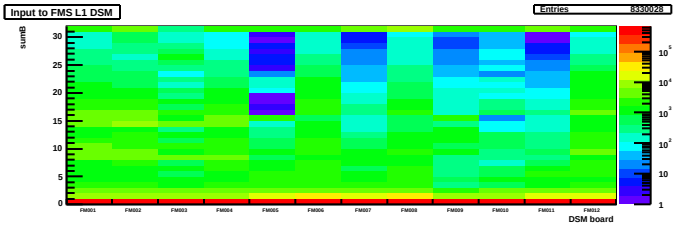

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

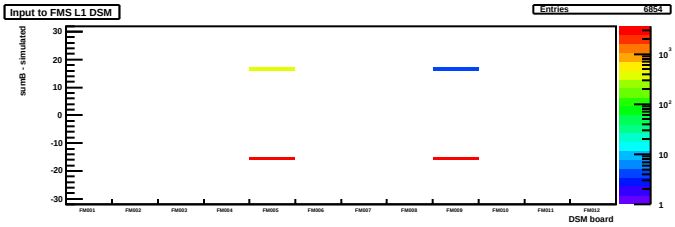

Input to FMS L1 DSM
Entries 8330028
sumC
DSM board

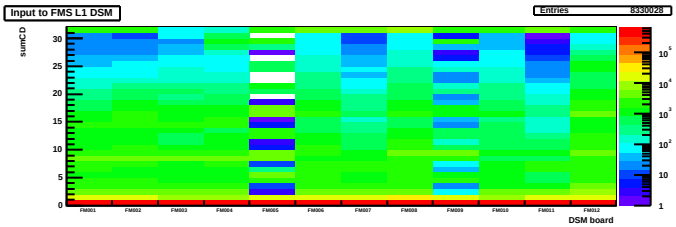

Input to FMS L1 DSM
Entries 9695
sumC - simulated
DSM board

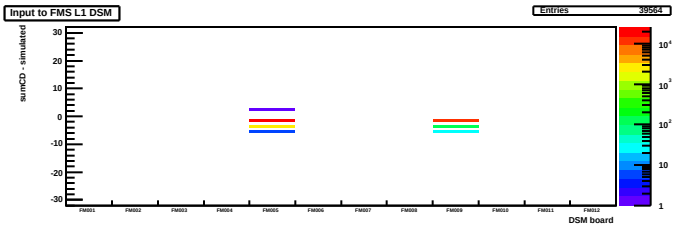

Input to FMS L1 DSM
Entries 8330028
sumBC
DSM board

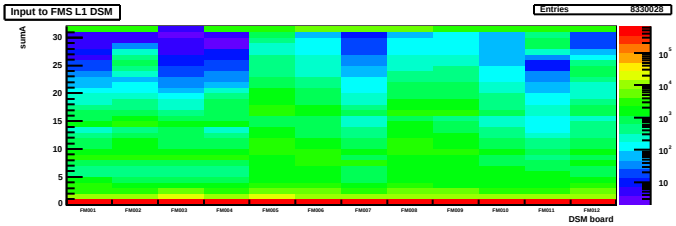

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

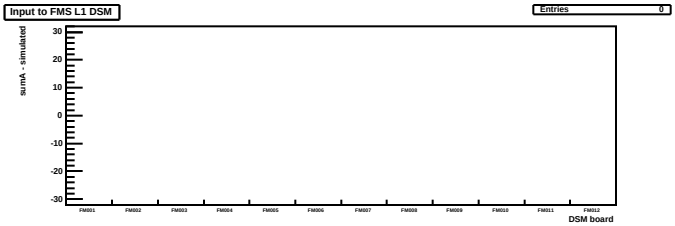

Input to FMS L1 DSM
Entries 8330028
sumB
DSM board

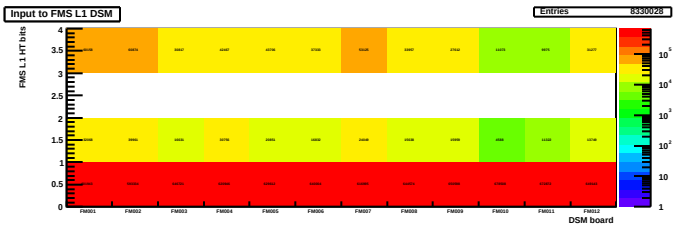

Input to FMS L1 DSM
Entries 6854
sumB - simulated
DSM board

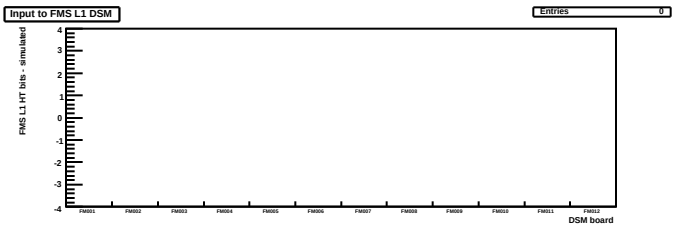

Input to FMS L1 DSM
Entries 8330028
sumCD
DSM board

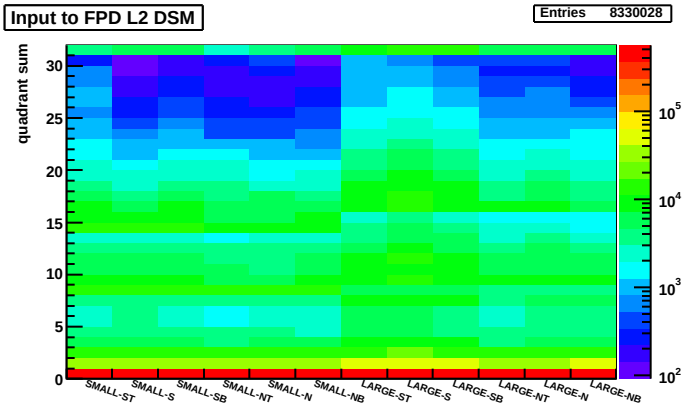

Input to FMS L1 DSM
Entries 39564
sumCD - simulated
DSM board

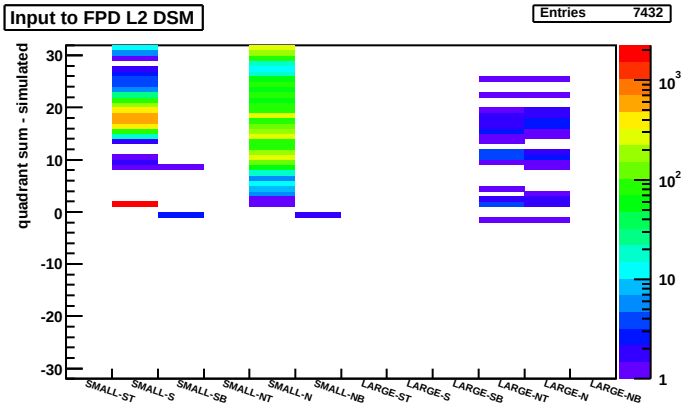

Input to FMS L1 DSM
Entries 8330028
sumA
DSM board

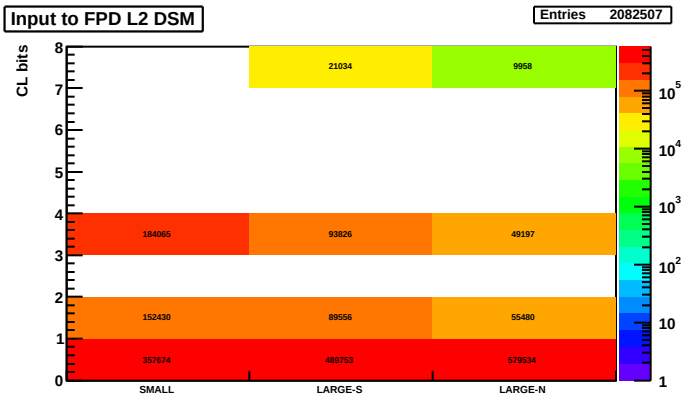

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

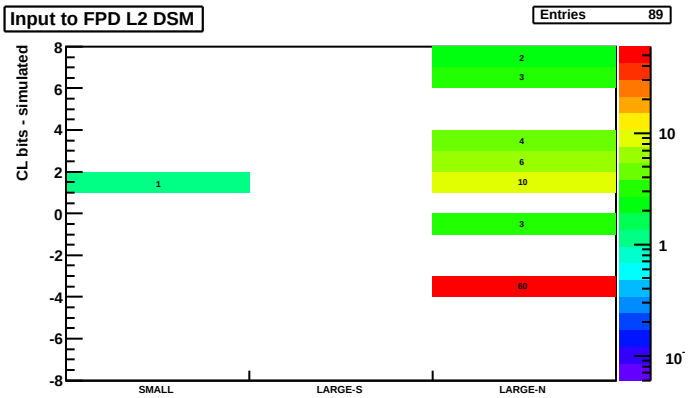

Input to FMS L1 DSM
Entries 8330028
FMS L1 HT bits
DSM board

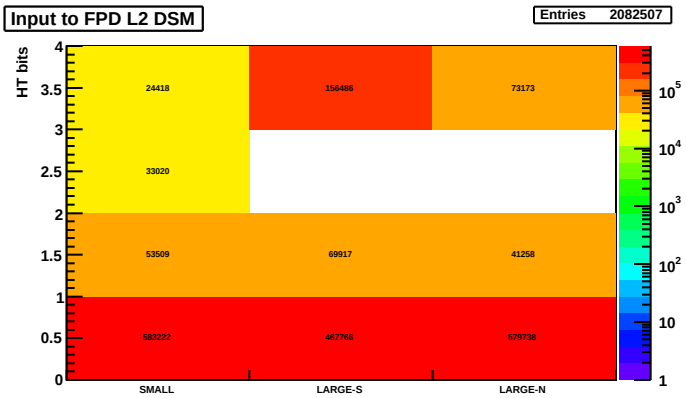

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

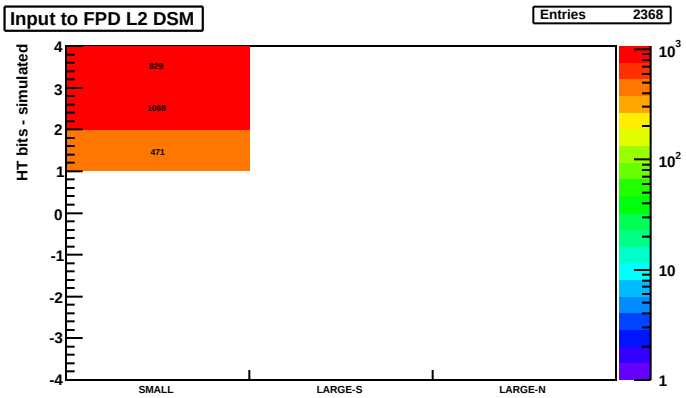

Input to FPD L2 DSM
Entries 8330028
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

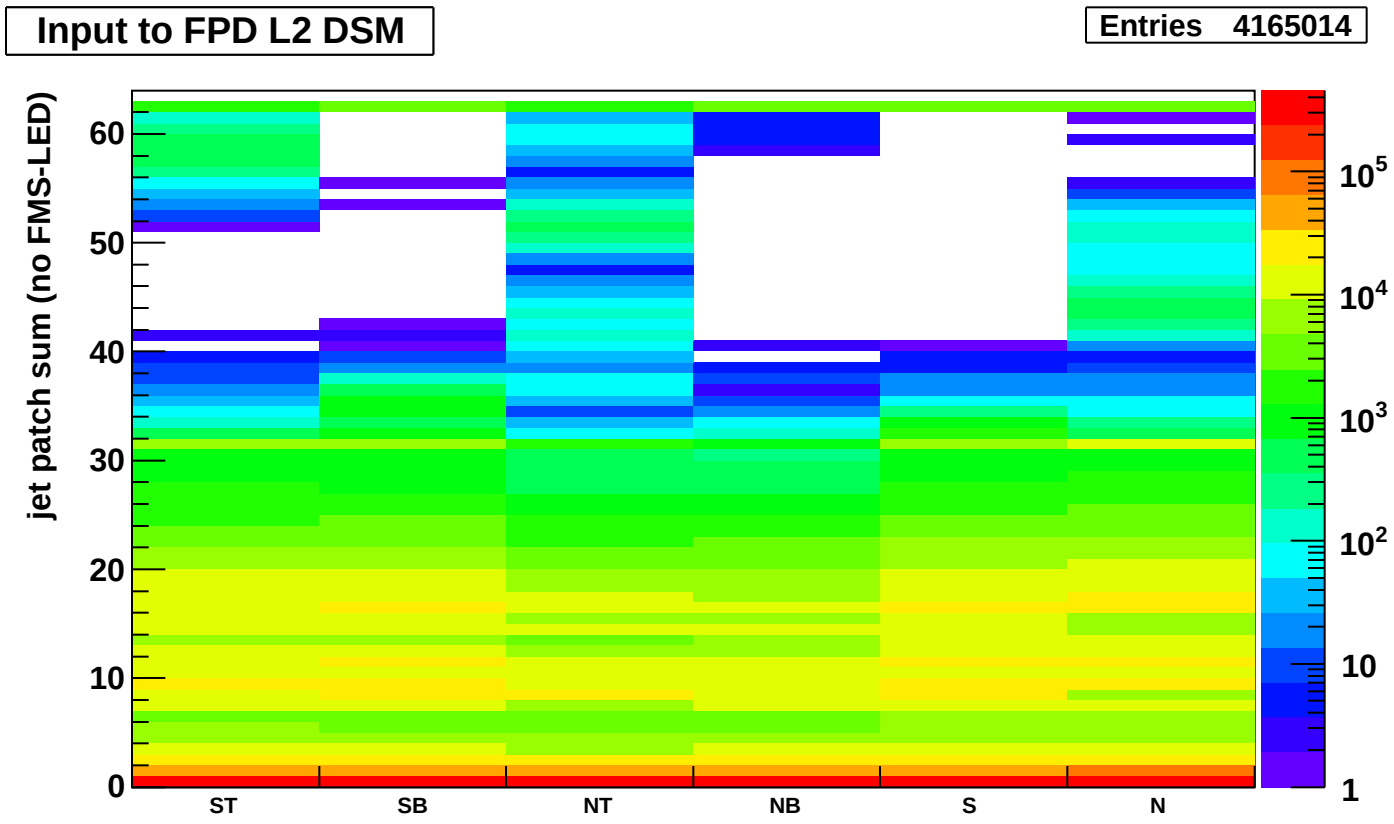

Input to FPD L2 DSM
Entries 7432
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

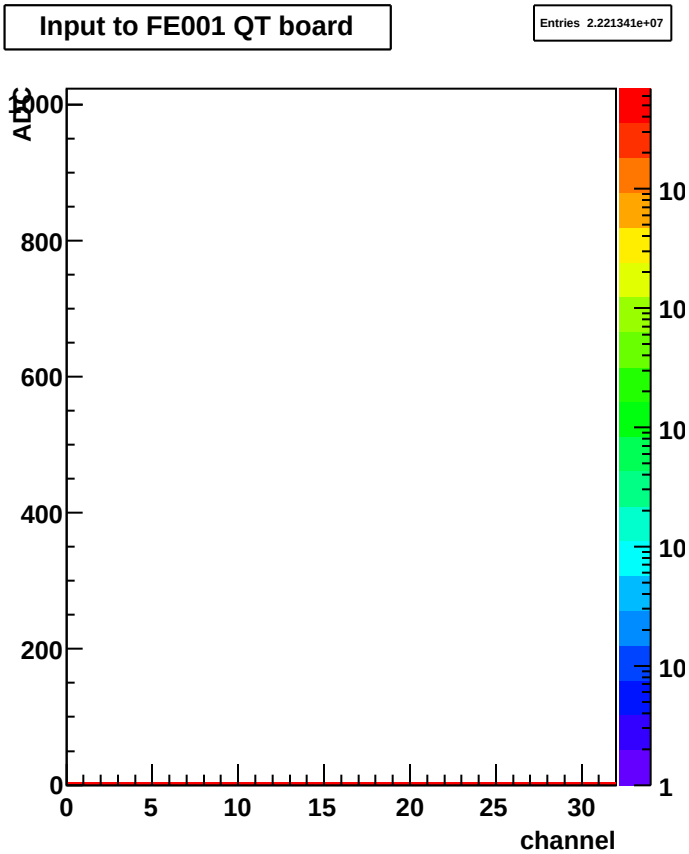

Input to FPD L2 DSM
Entries 2082507
CL bits
21034
9958
184065
93826
49197
152430
89556
55480
357674
489753
579534
SMALL
LARGE-S
LARGE-N

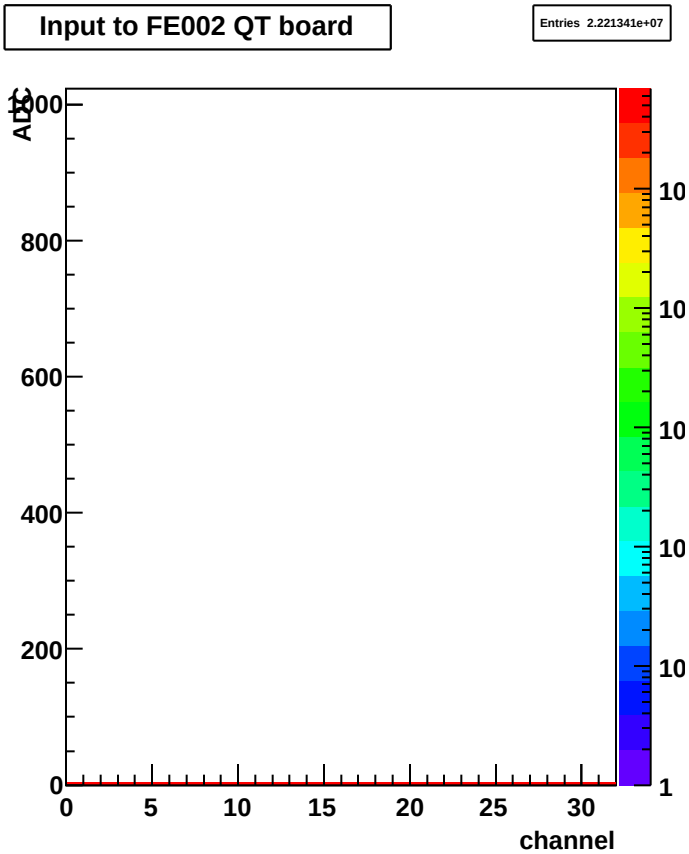

Input to FPD L2 DSM
Entries 89
CL bits - simulated
2
3
4
6
10
1
3
60
SMALL
LARGE-S
LARGE-N

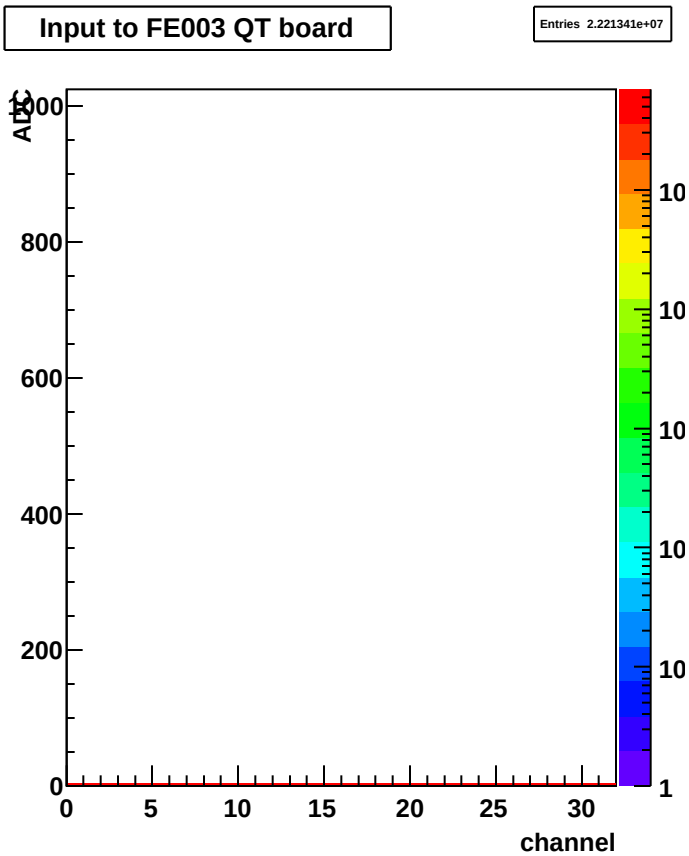

Input to FPD L2 DSM
Entries 2082507
HT bits
24418
156486
73173
33020
53509
69917
41258
583222
467766
579738
SMALL
LARGE-S
LARGE-N

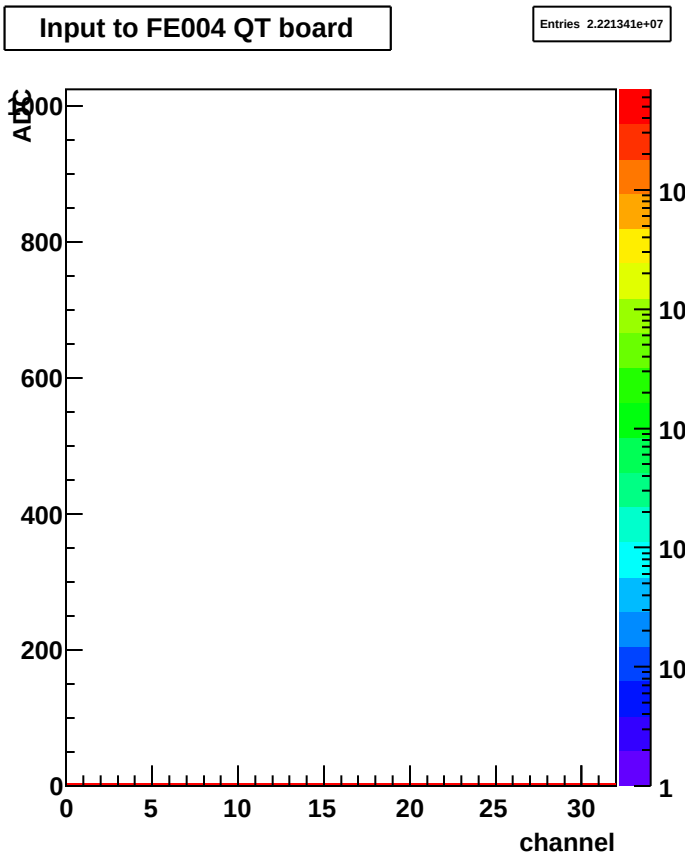

Input to FPD L2 DSM
Entries 2368
HT bits - simulated
829
1068
471
SMALL
LARGE-S
LARGE-N

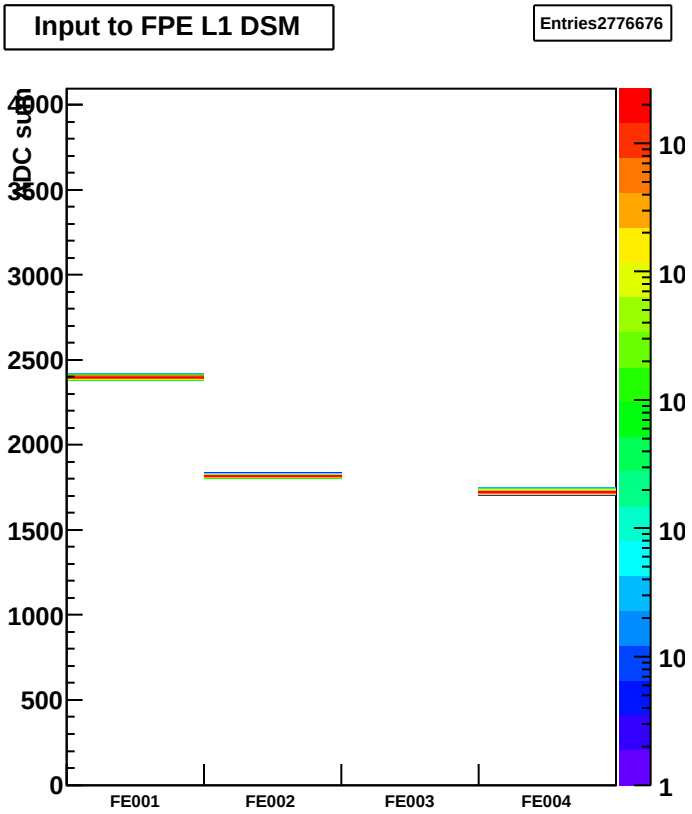

Input to FPD L2 DSM
Entries 4165014
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

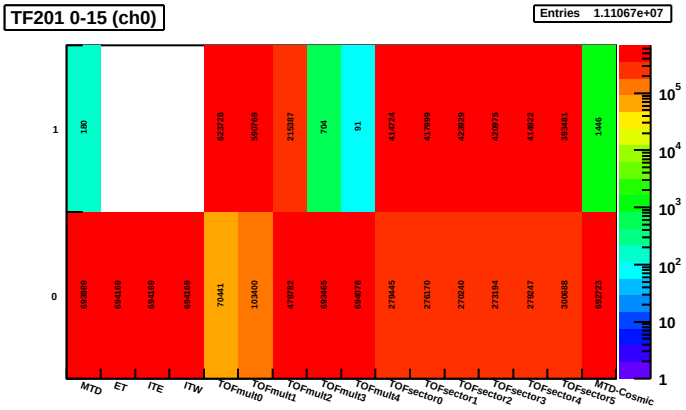

Input to FE001 QT board
Entries 2.221341e+07
ADC
channel

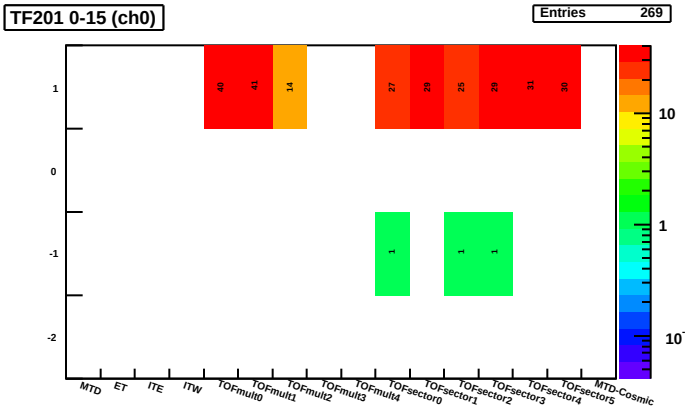

Input to FE002 QT board
Entries 2.221341e+07
ADC
channel

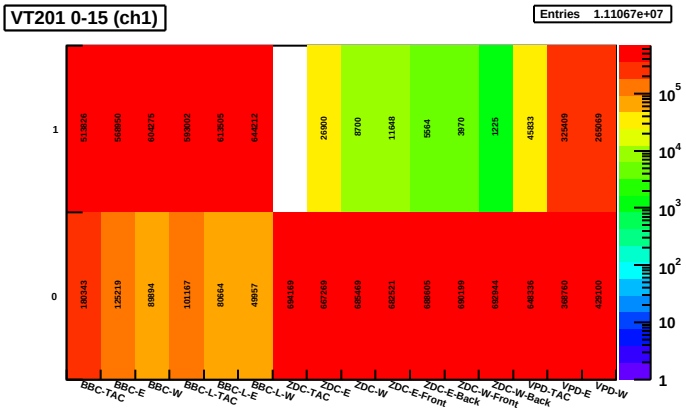

Input to FE003 QT board
Entries 2.221341e+07
ADC
channel

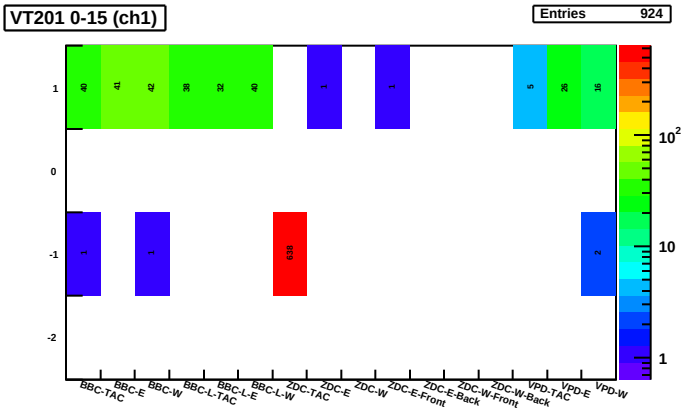

Input to FE004 QT board
Entries 2.221341e+07
ADC
channel

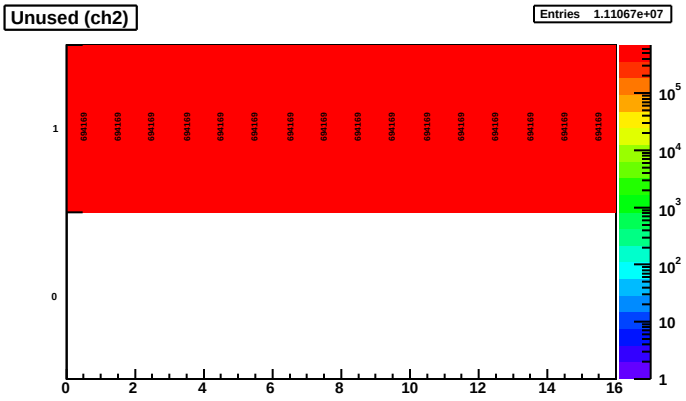

Input to FPE L1 DSM
Entries2776676
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

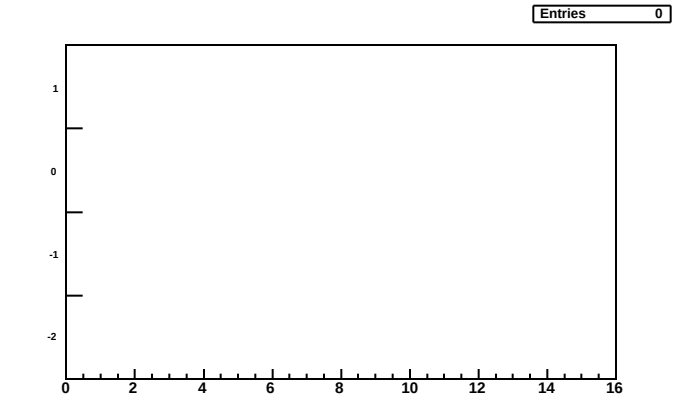

TF201 0-15 (ch0)
Entries 1.11067e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

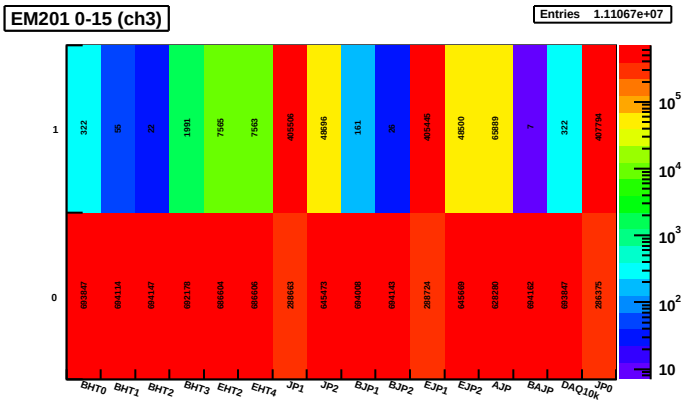

TF201 0-15 (ch0)
Entries 269
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

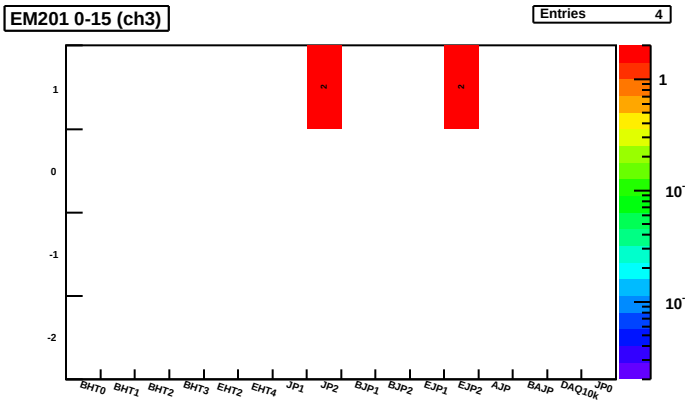

VT201 0-15 (ch1)
Entries 1.11067e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 924
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

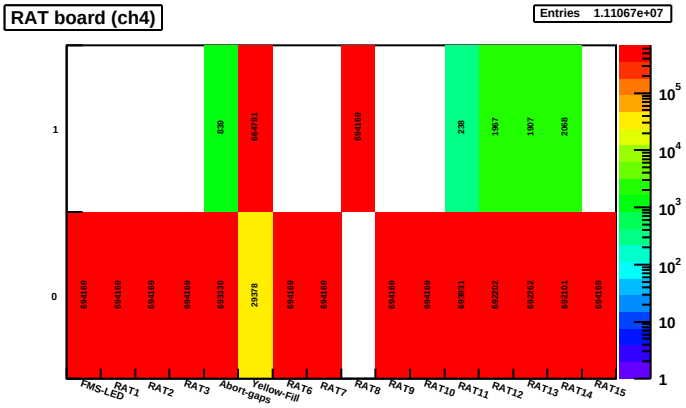

Unused (ch2)
Entries 1.11067e+07

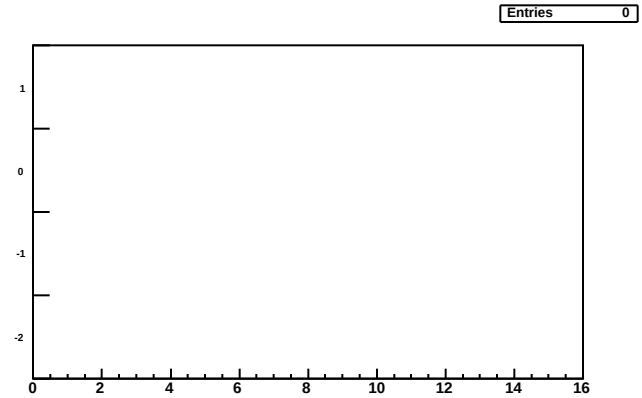

Entries 0


EM201 0-15 (ch3)
Entries 1.11067e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

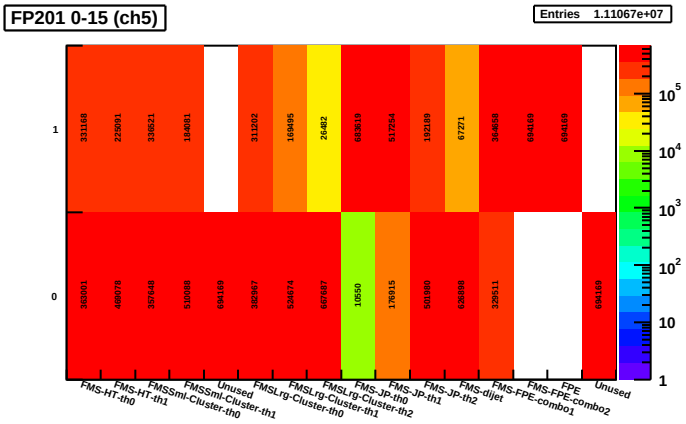

EM201 0-15 (ch3)
Entries 4
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

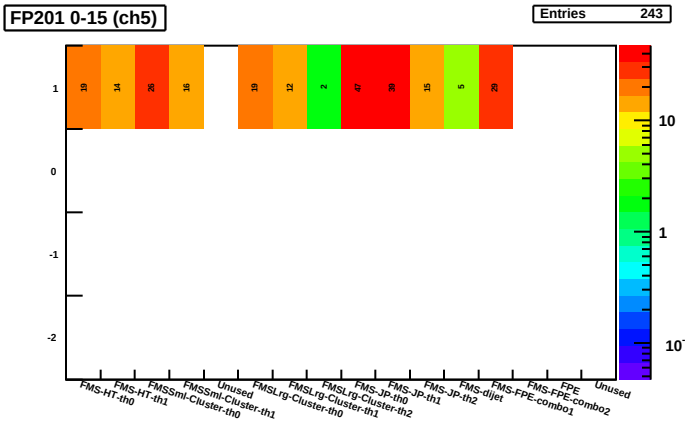




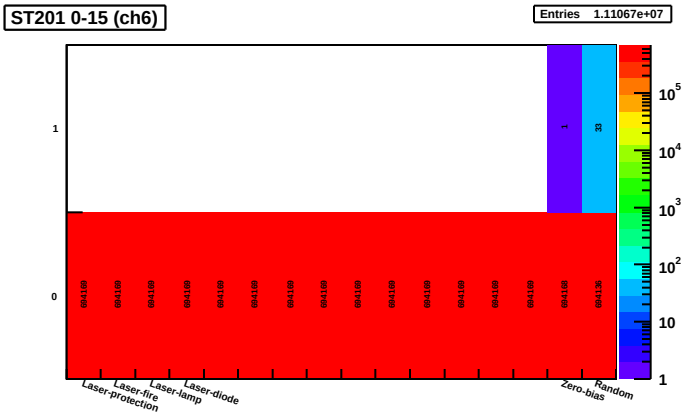
FP201 0-15 (ch5)

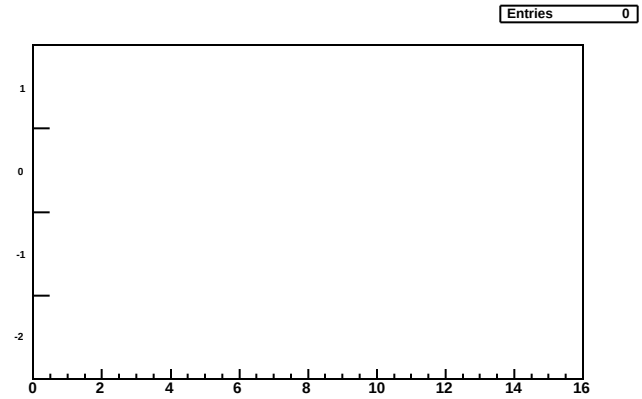
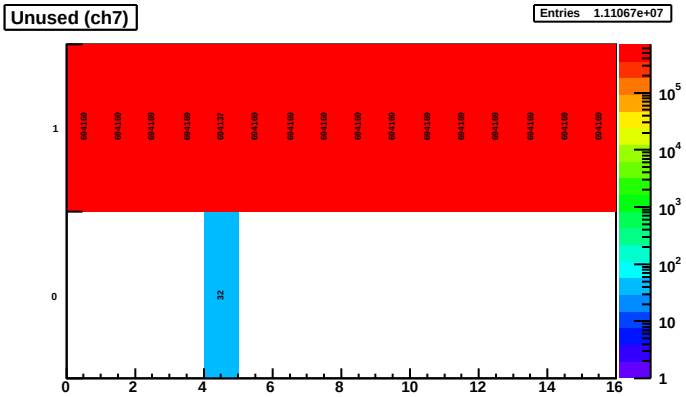
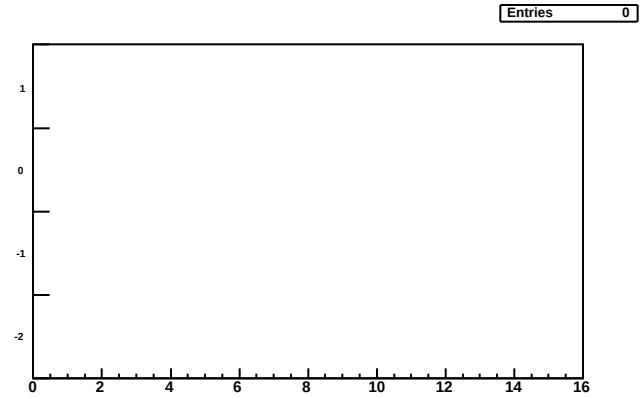


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)