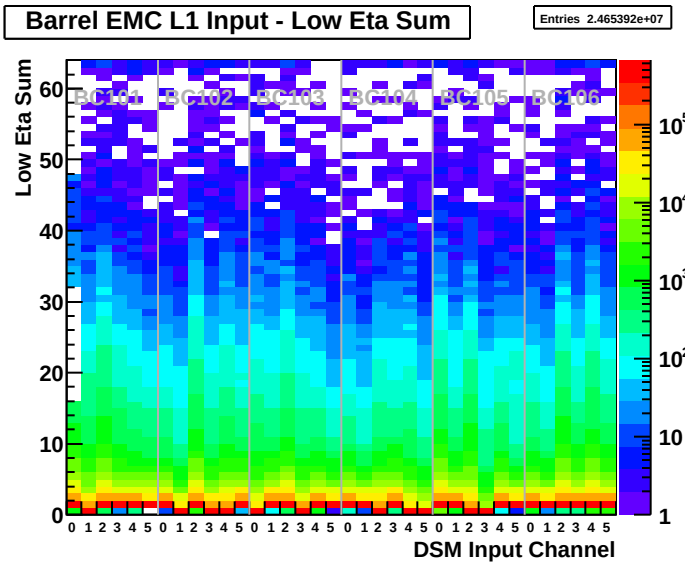
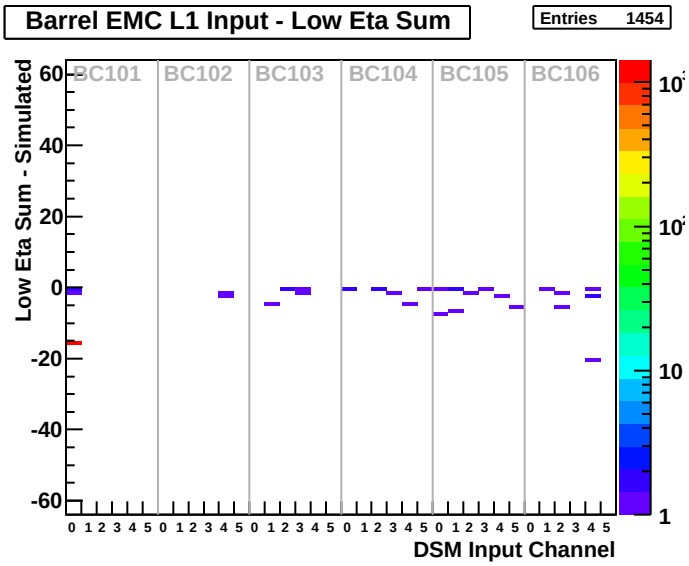
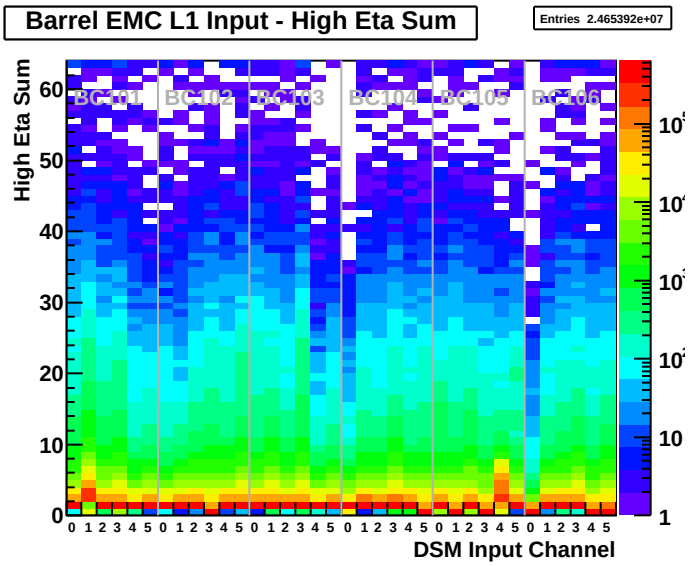
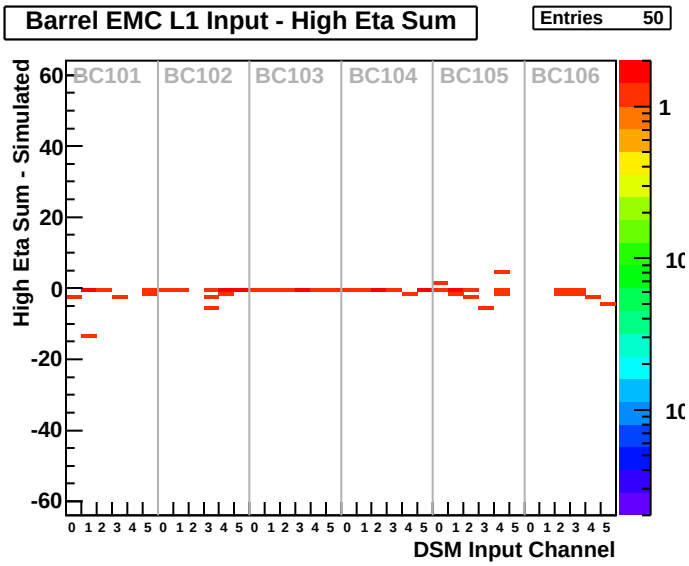
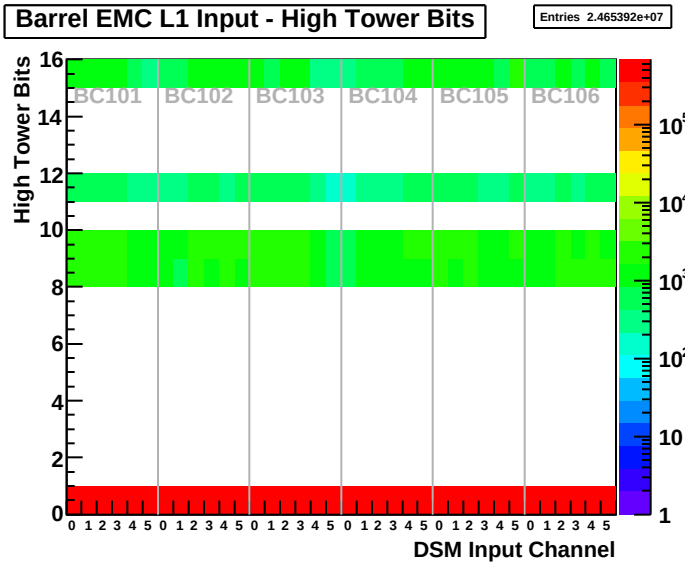
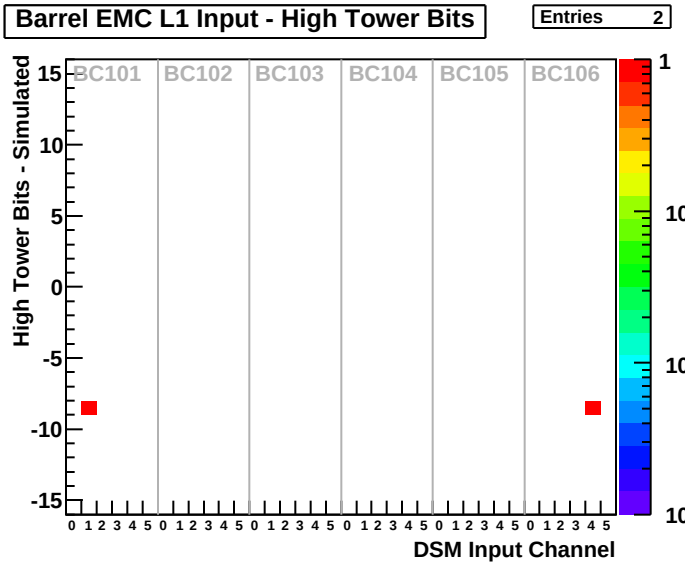

Barrel EMC L1 Input - Low Eta Sum
Entries 2.465392e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

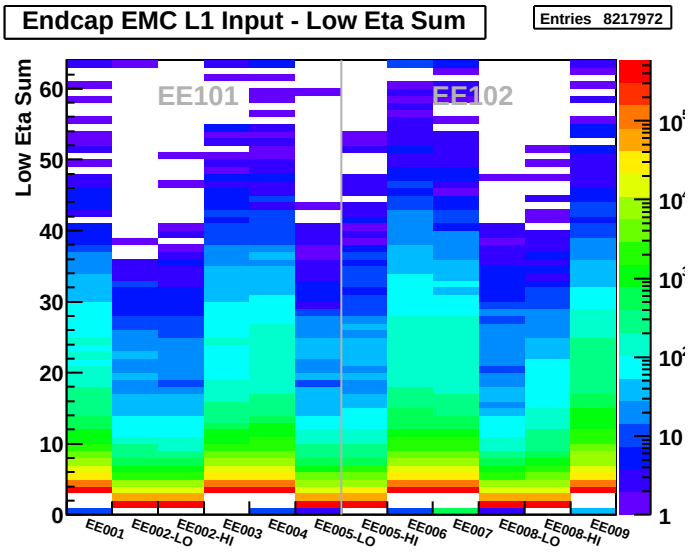

Barrel EMC L1 Input - Low Eta Sum
Entries 1454
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

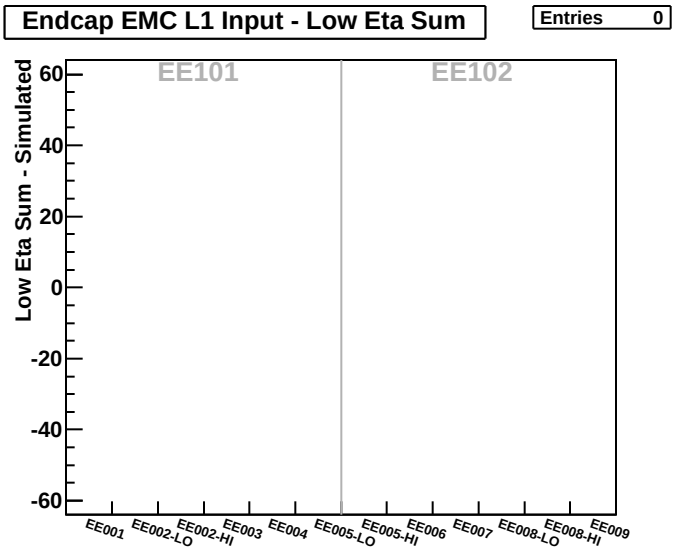

Barrel EMC L1 Input - High Eta Sum
Entries 2.465392e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

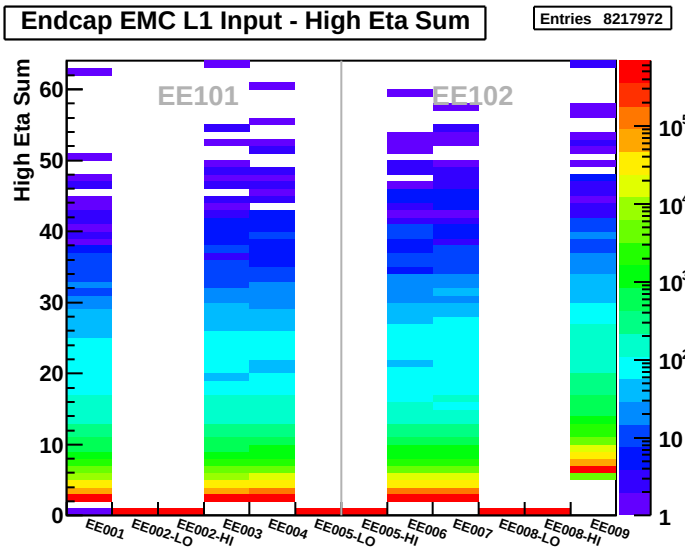

Barrel EMC L1 Input - High Eta Sum
Entries 50
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

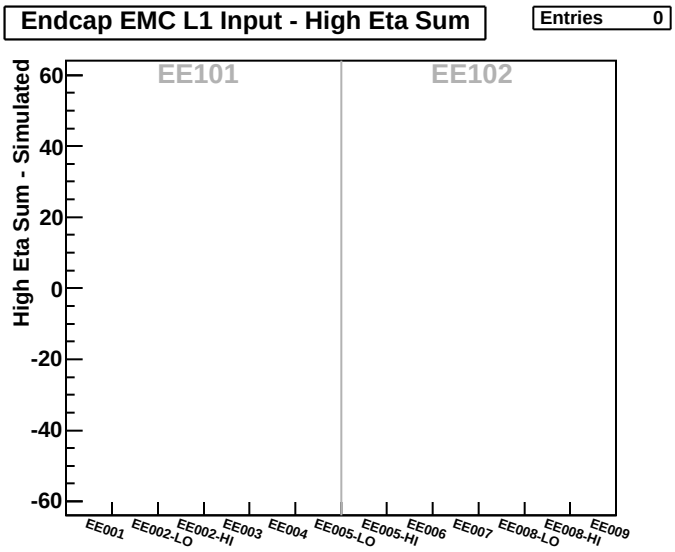

Barrel EMC L1 Input - High Tower Bits
Entries 2.465392e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

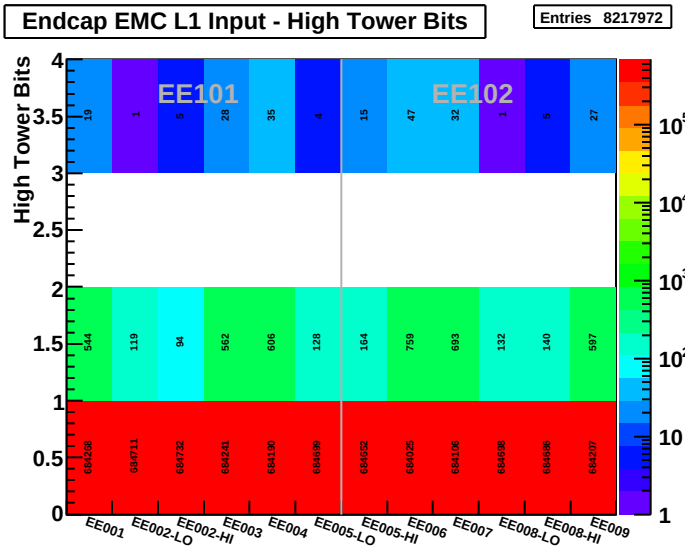

Barrel EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

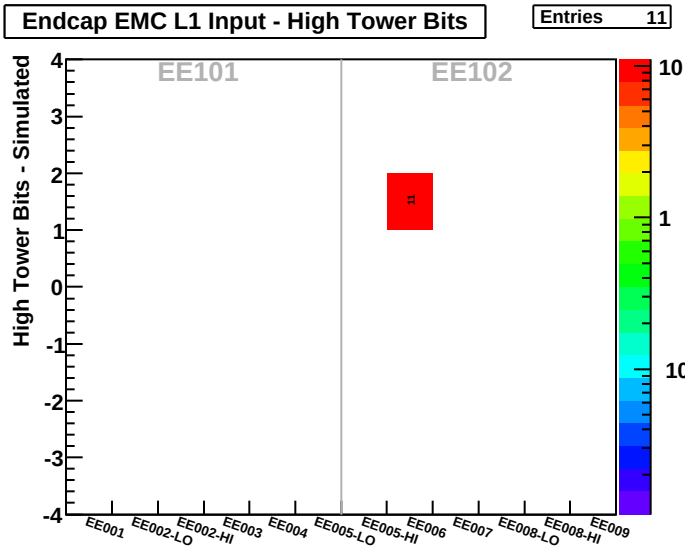

Endcap EMC L1 Input - Low Eta Sum
Entries 8217972
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

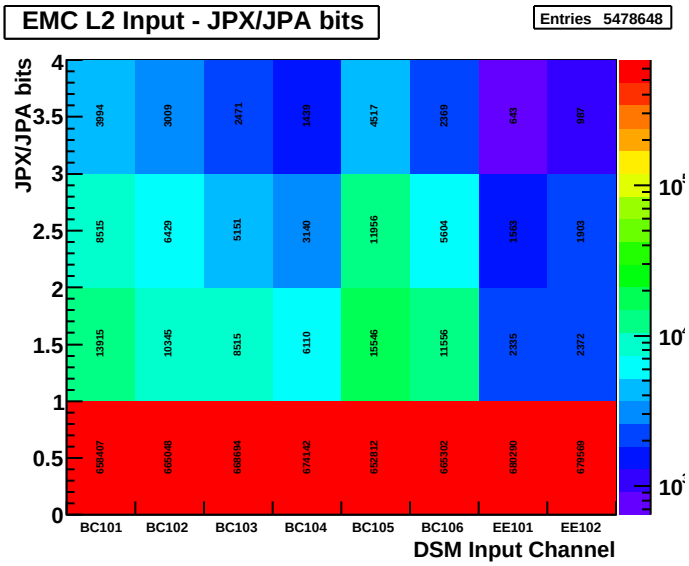

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

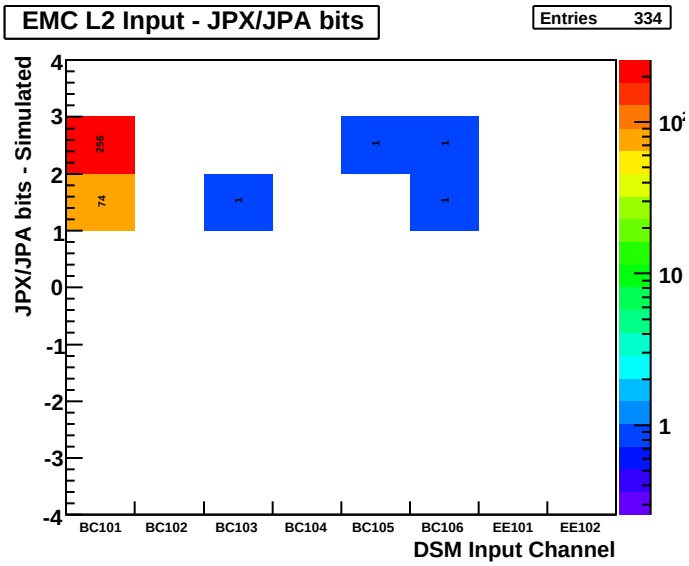

Endcap EMC L1 Input - High Eta Sum
Entries 8217972
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

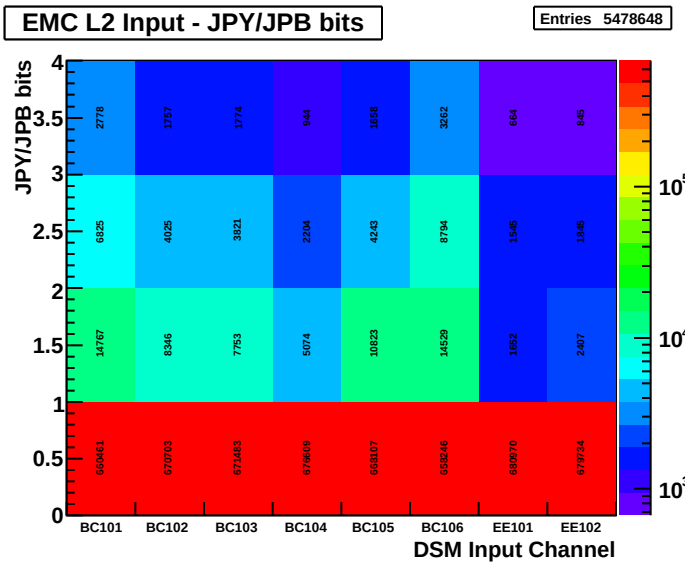

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

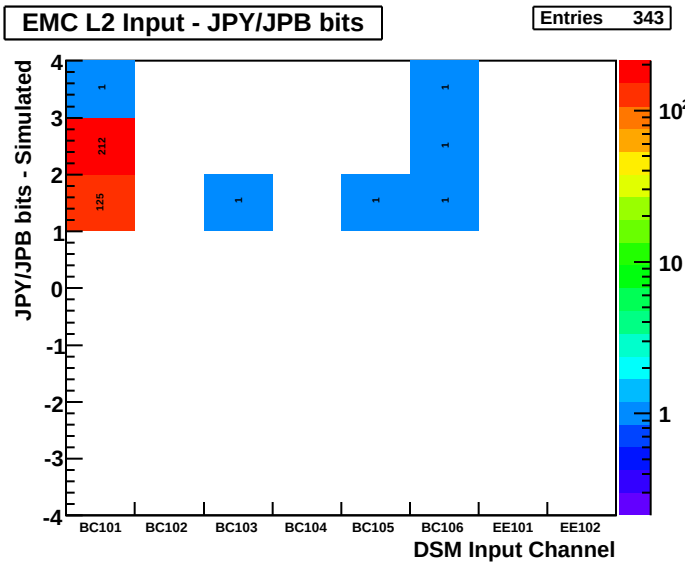

Endcap EMC L1 Input - High Tower Bits
Entries 8217972
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

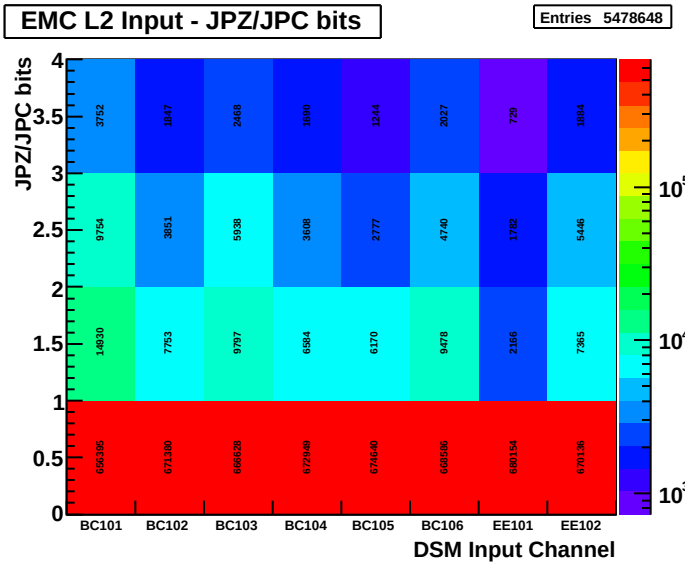

Endcap EMC L1 Input - High Tower Bits
Entries 11
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

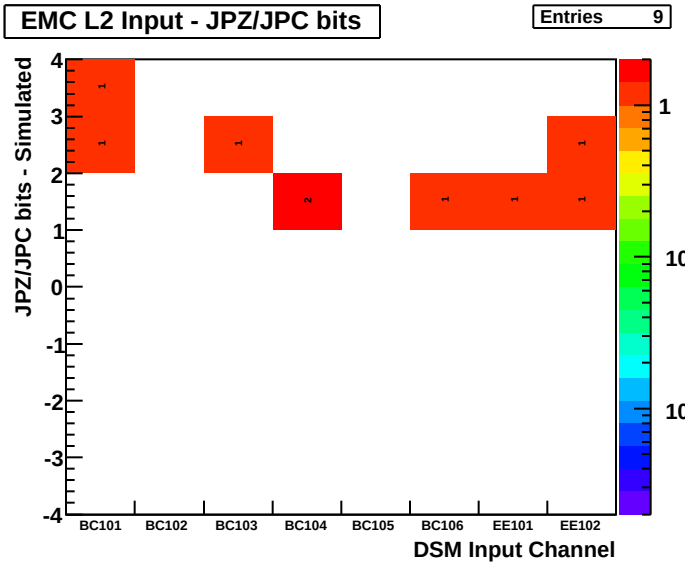

EMC L2 Input - JPX/JPA bits
Entries 5478648
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3994 3009 2471 1439 4517 2369 643 987
8515 6429 5151 3140 11956 5604 1563 1903
13915 10345 8515 6110 15546 11556 2335 2372
658407 665048 668694 674142 652812 665302 680290 679569

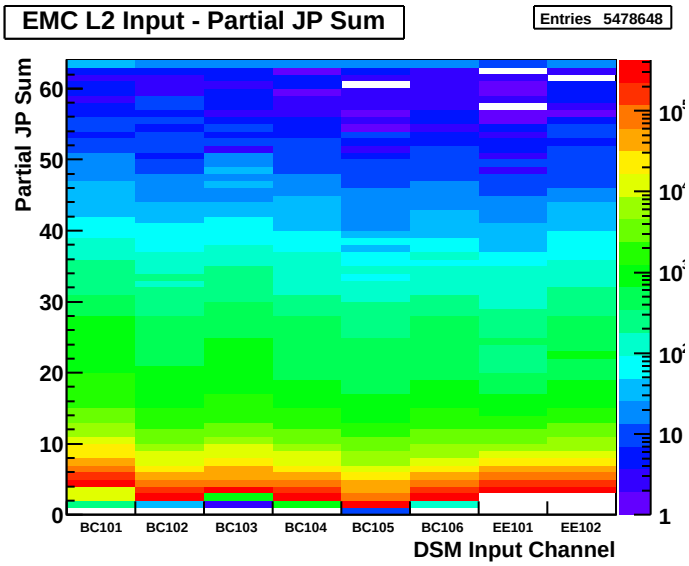

EMC L2 Input - JPX/JPA bits
Entries 334
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
256
74
1
1
1

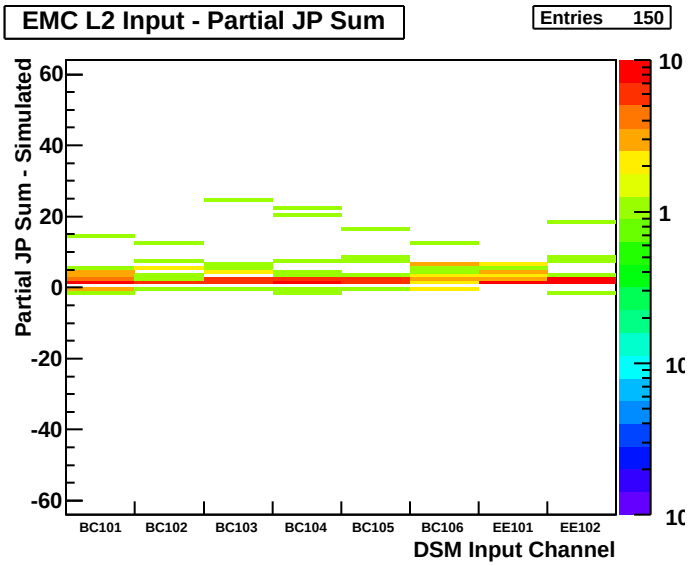

EMC L2 Input - JPY/JPB bits
Entries 5478648
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2778 1757 1774 944 1658 3262 664 845
6825 4025 3821 2204 4243 8794 1545 1845
14767 8346 7753 5074 10823 14529 1652 2407
660461 670703 671483 676609 668107 659246 680970 679734

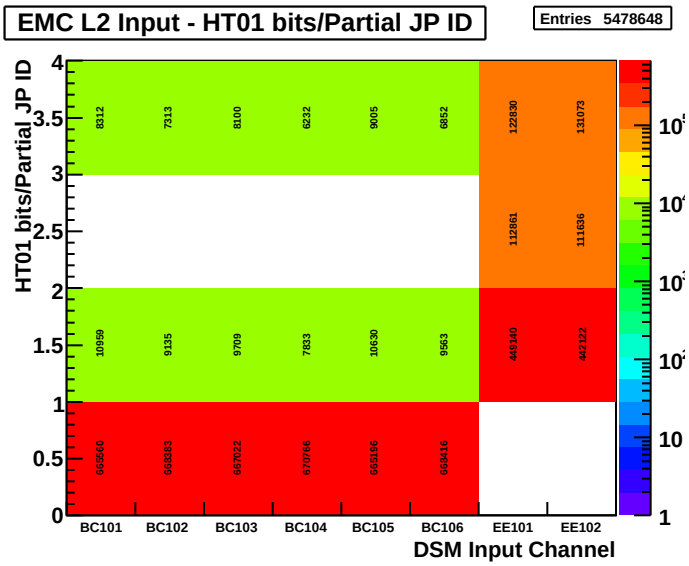

EMC L2 Input - JPY/JPB bits
Entries 343
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
212
125
1
1
1
1
1

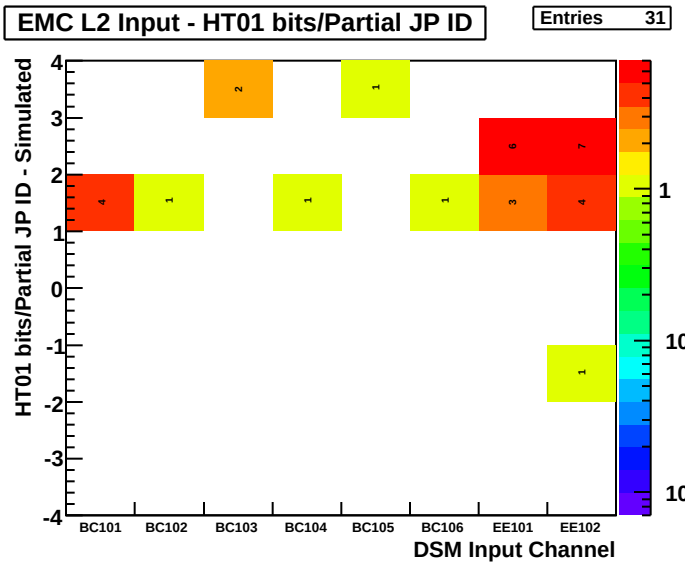

EMC L2 Input - JPZ/JPC bits
Entries 5478648
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3752 1847 2468 1690 1244 2027 729 1834
9754 3851 5938 3608 2777 4740 1782 5446
14830 7753 9797 6584 6170 9478 2166 7365
656395 671380 666328 672940 674640 668598 680154 670136

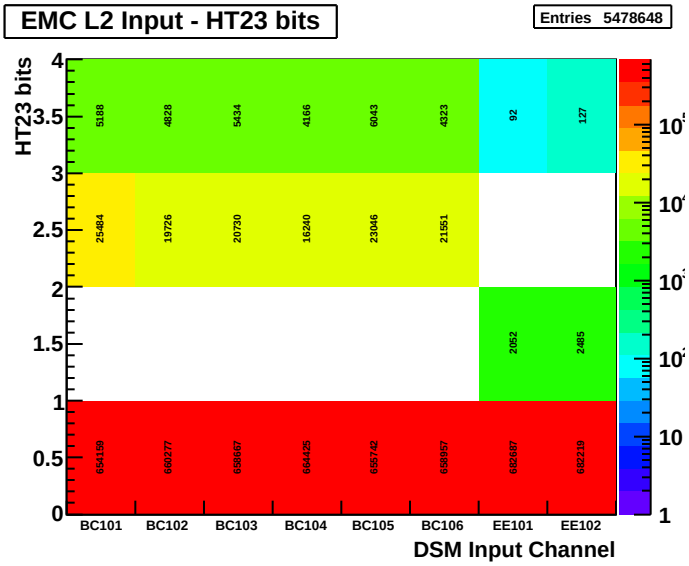

EMC L2 Input - JPZ/JPC bits
Entries 9
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
1
1
1
2
1
1
1

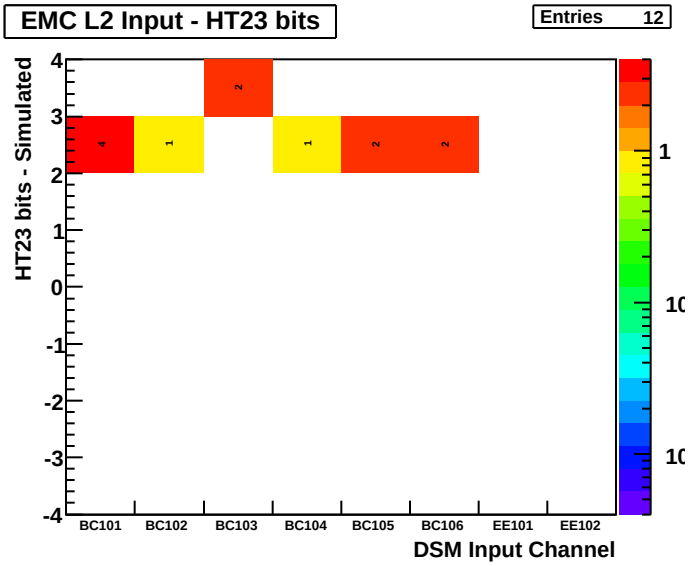

EMC L2 Input - Partial JP Sum
Entries 5478648
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

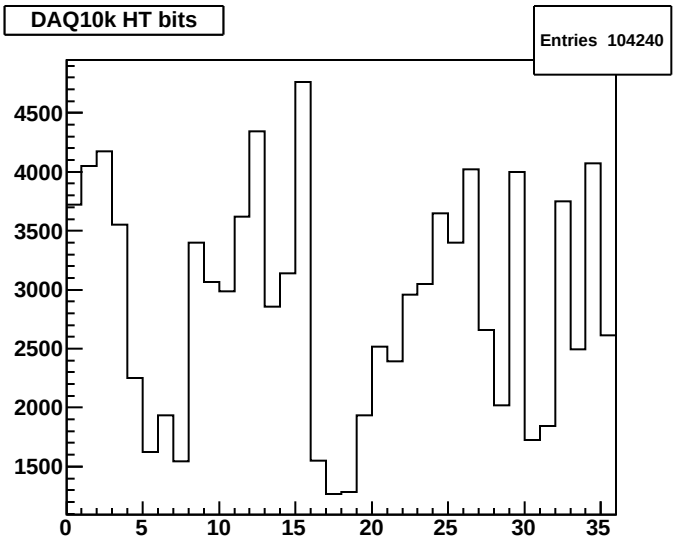

EMC L2 Input - Partial JP Sum
Entries 150
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

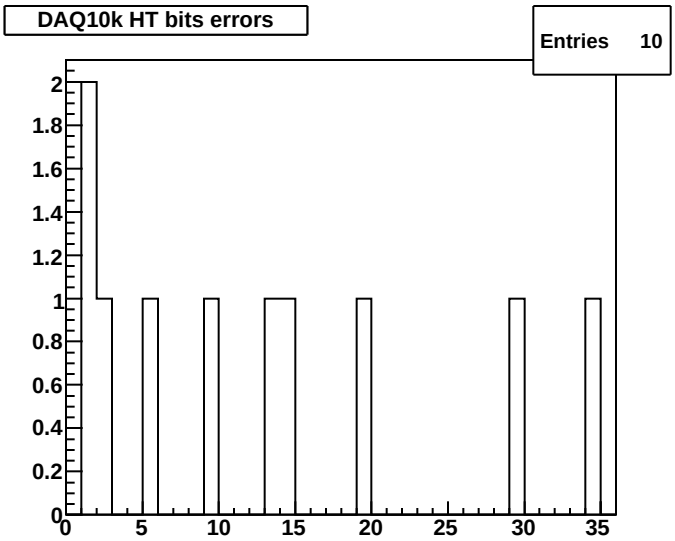

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5478648
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

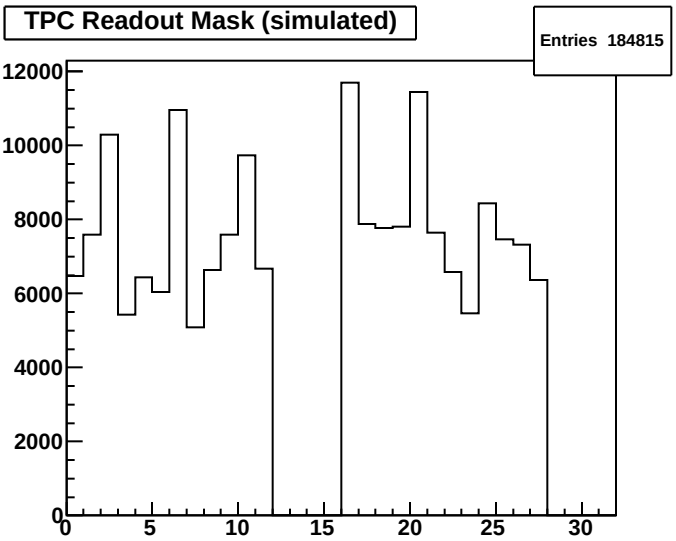

EMC L2 Input - HT01 bits/Partial JP ID
Entries 31
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

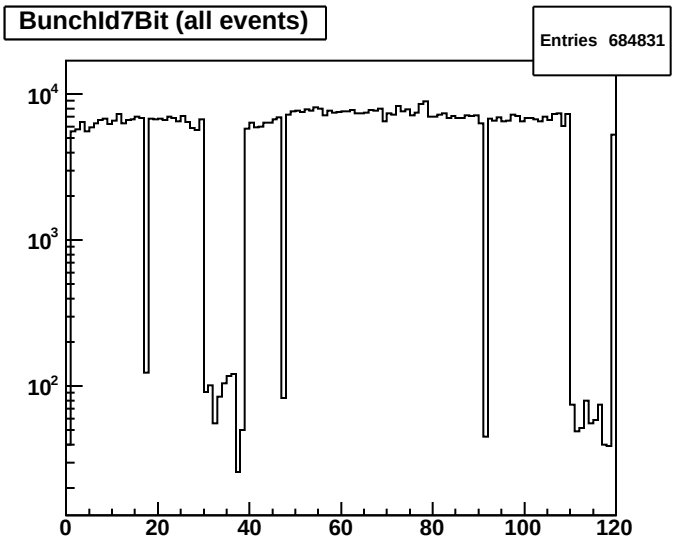

EMC L2 Input - HT23 bits
Entries 5478648
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

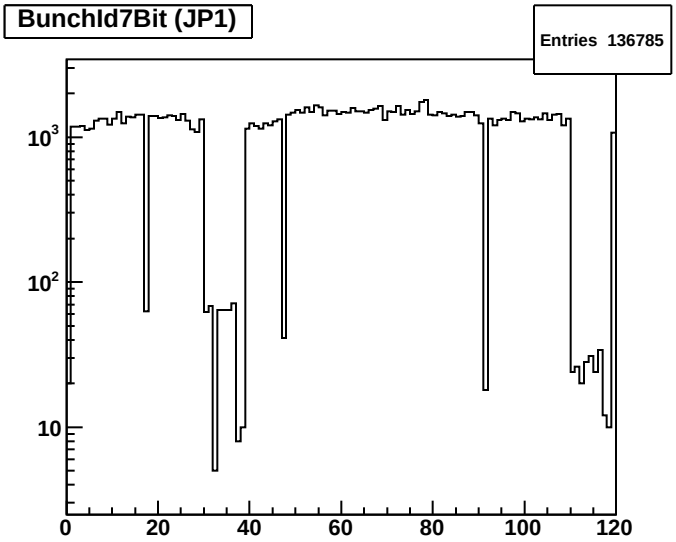

EMC L2 Input - HT23 bits
Entries 12
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

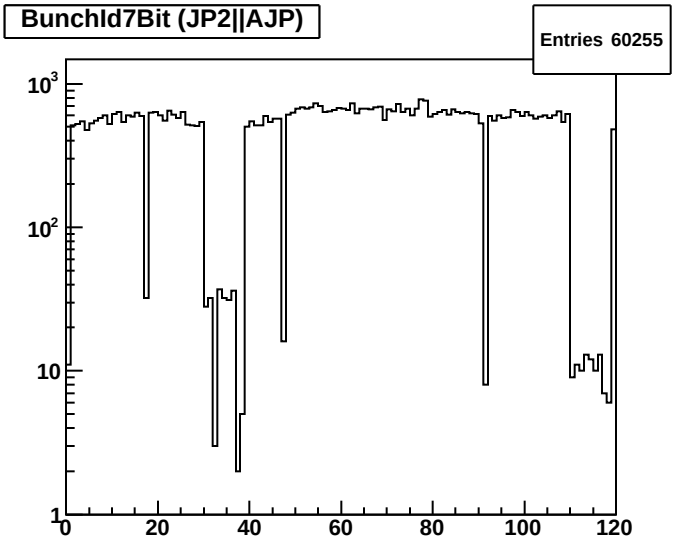

DAQ10k HT bits
Entries 104240

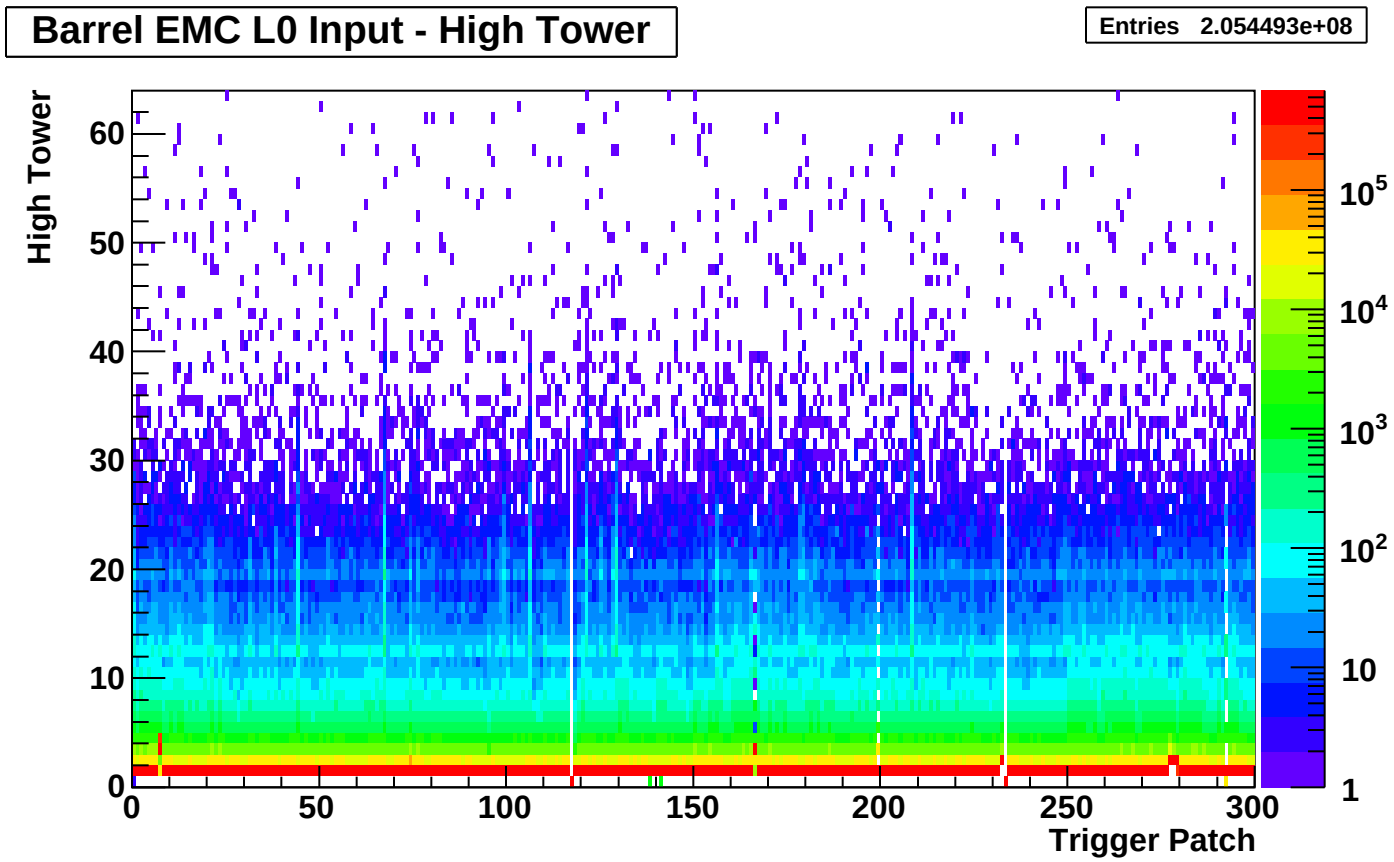

DAQ10k HT bits errors
Entries 10

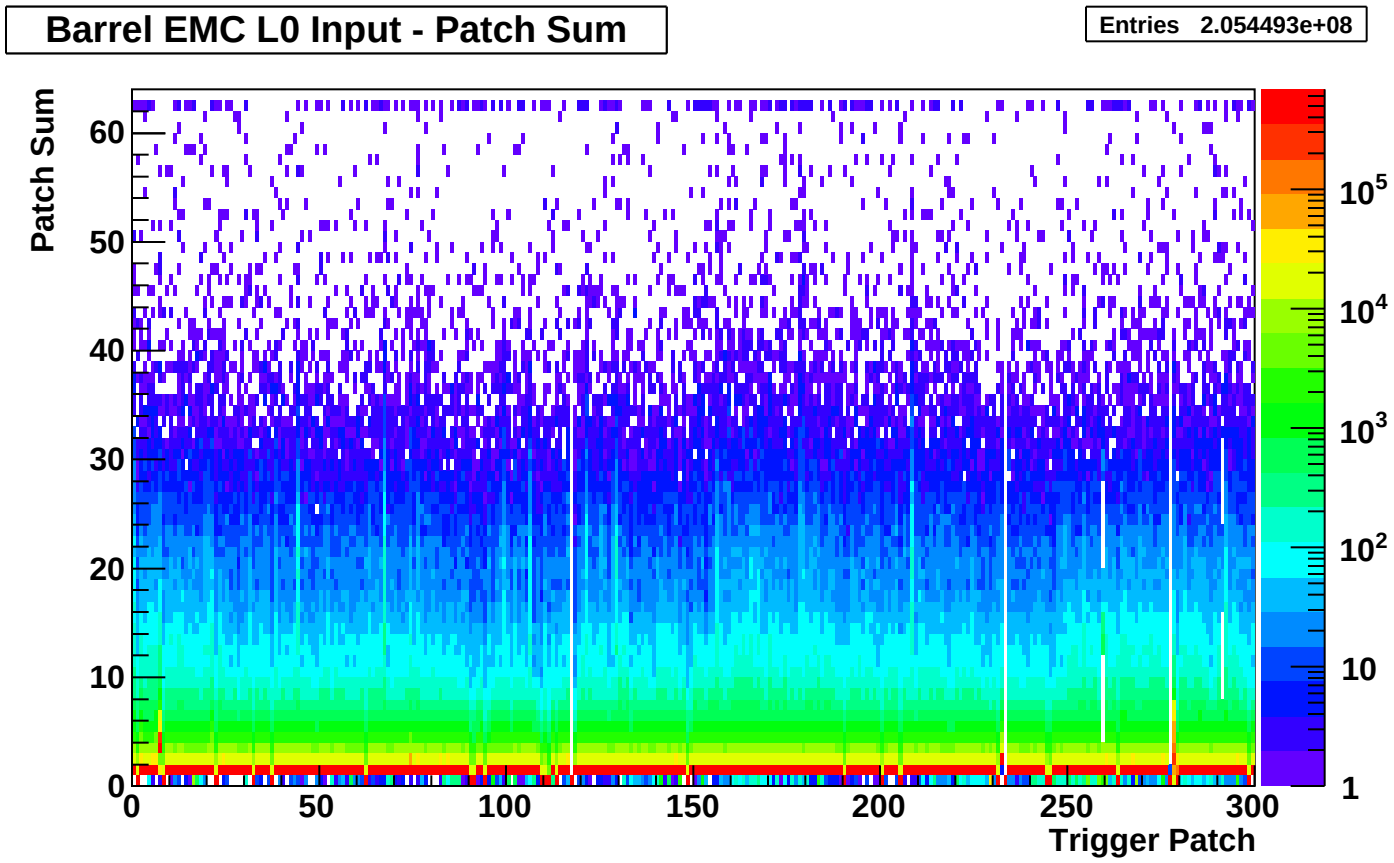

TPC Readout Mask (simulated)
Entries 184815

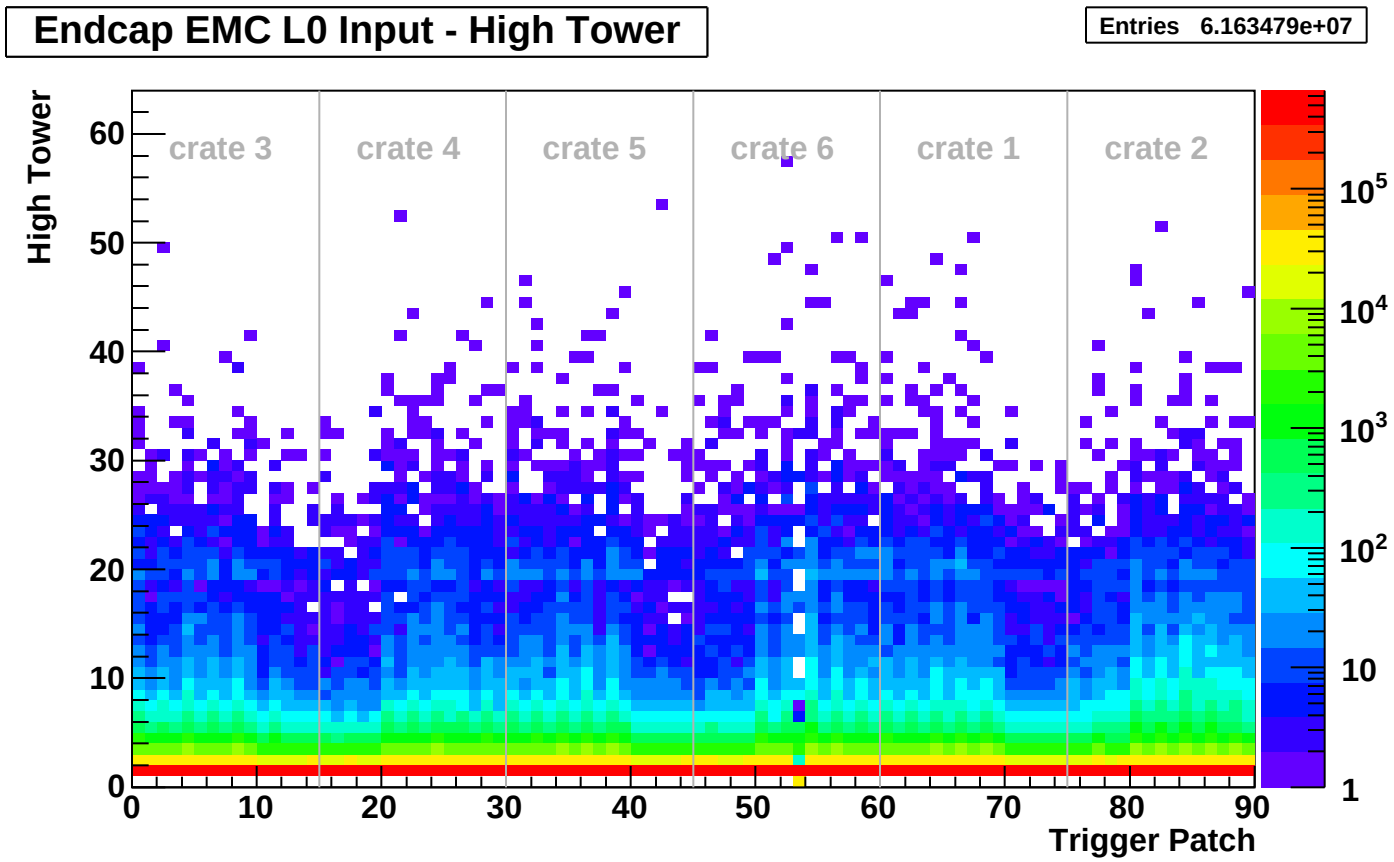

BunchId7Bit (all events)
Entries 684831

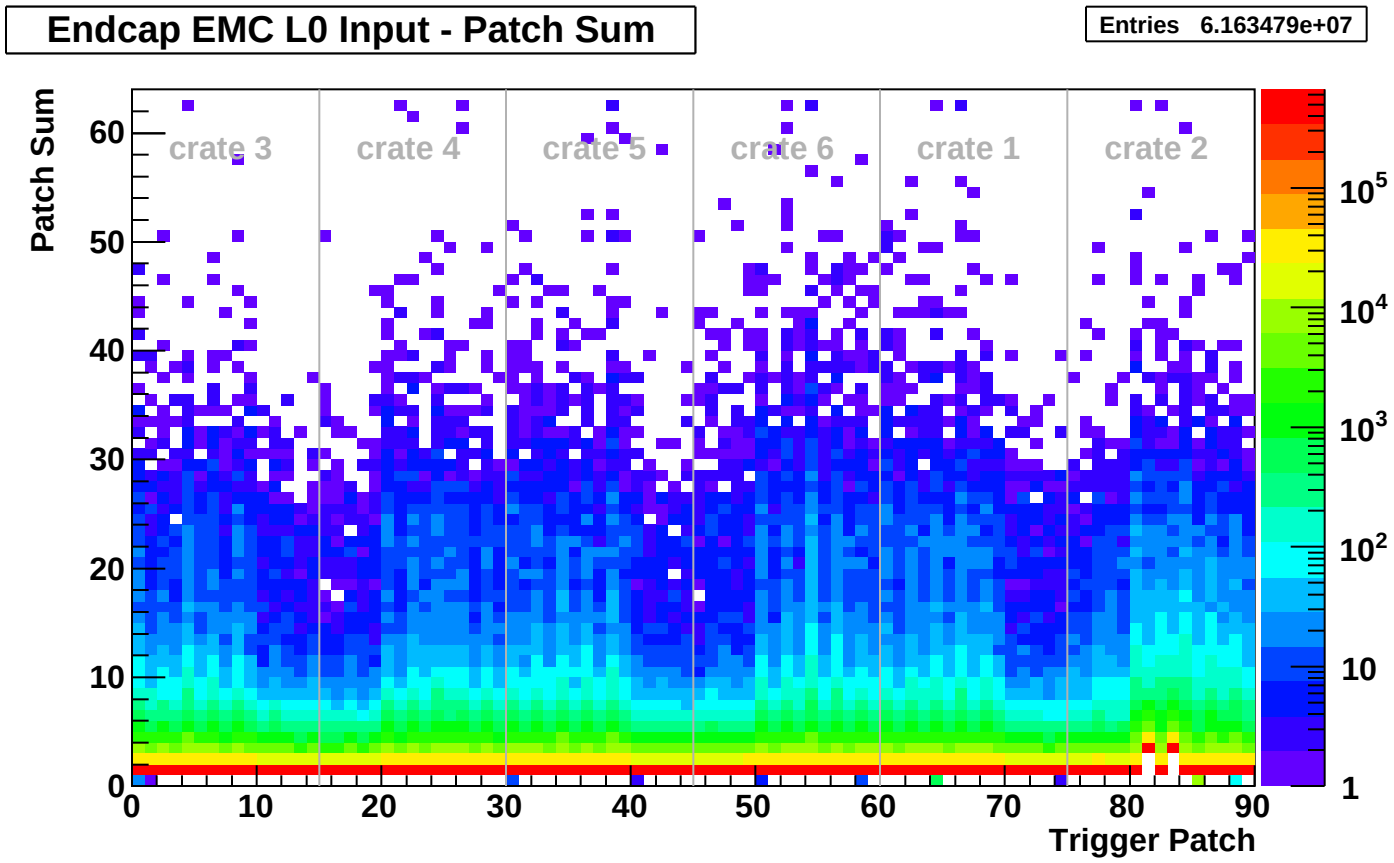

BunchId7Bit (JP1)
Entries 136785

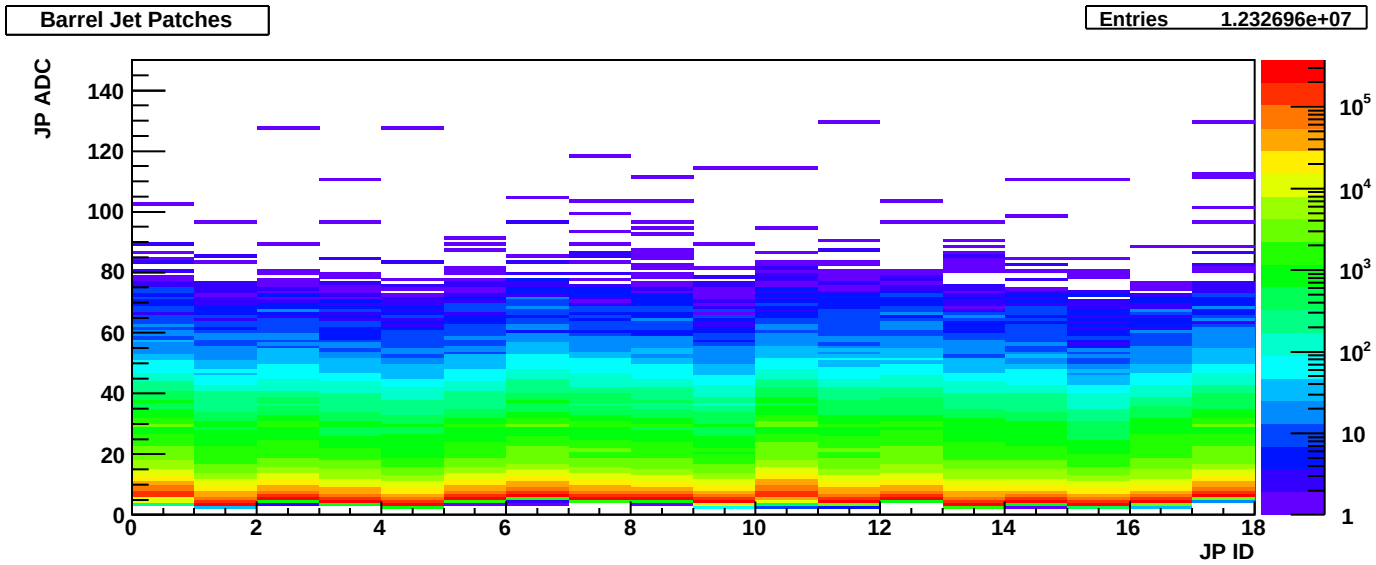

BunchId7Bit (JP2||AJP)
Entries 60255

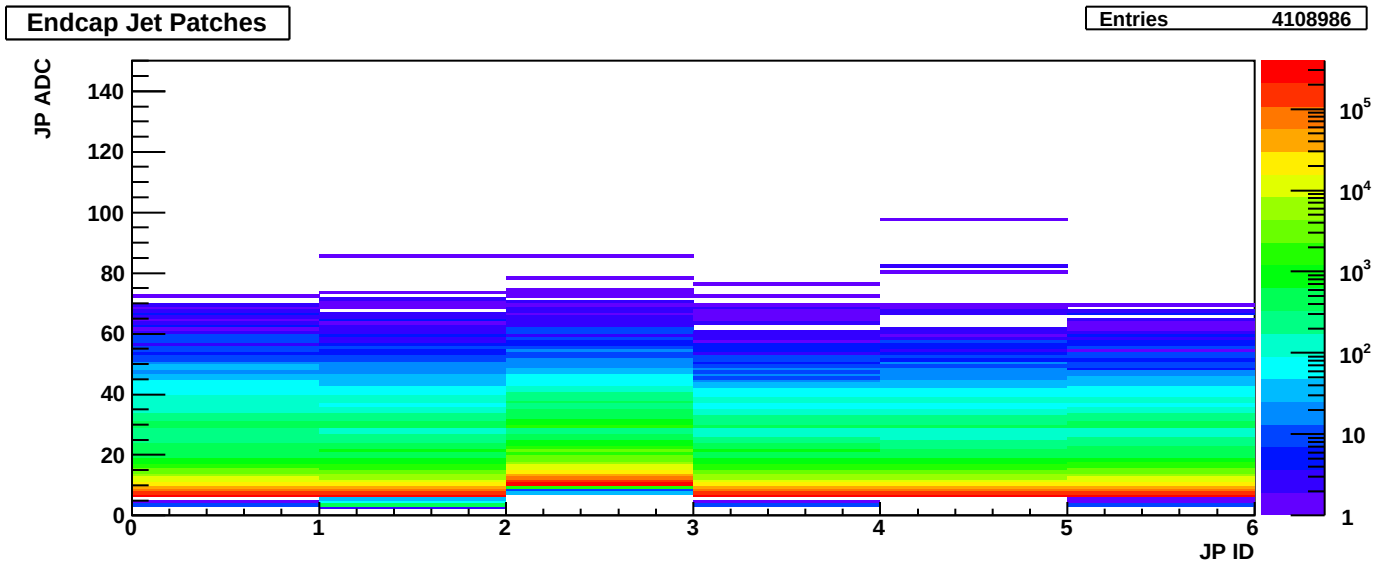

Barrel EMC L0 Input - High Tower
Entries 2.054493e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

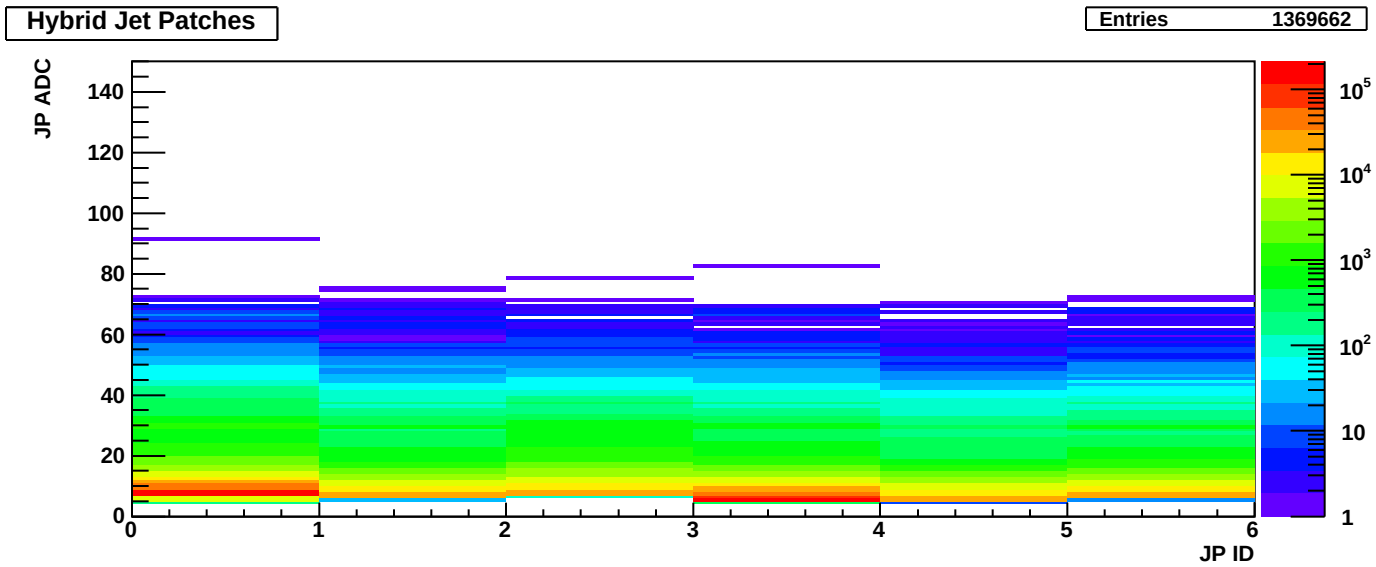

Barrel EMC L0 Input - Patch Sum
Entries 2.054493e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

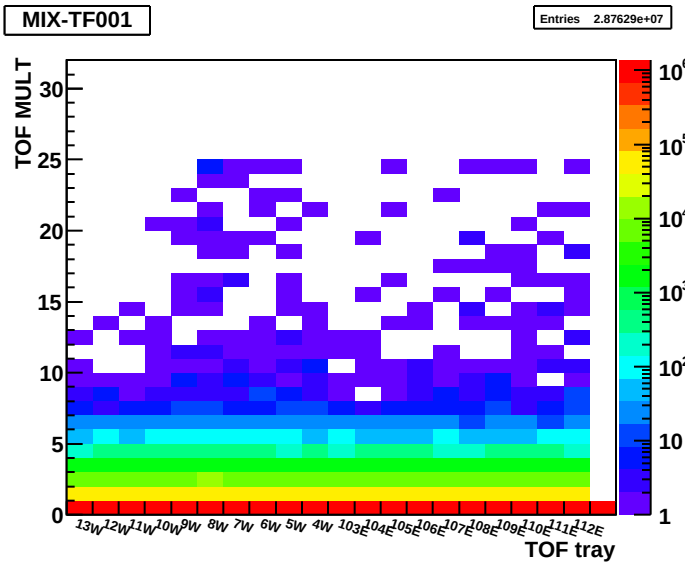

Endcap EMC L0 Input - High Tower
Entries 6.163479e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

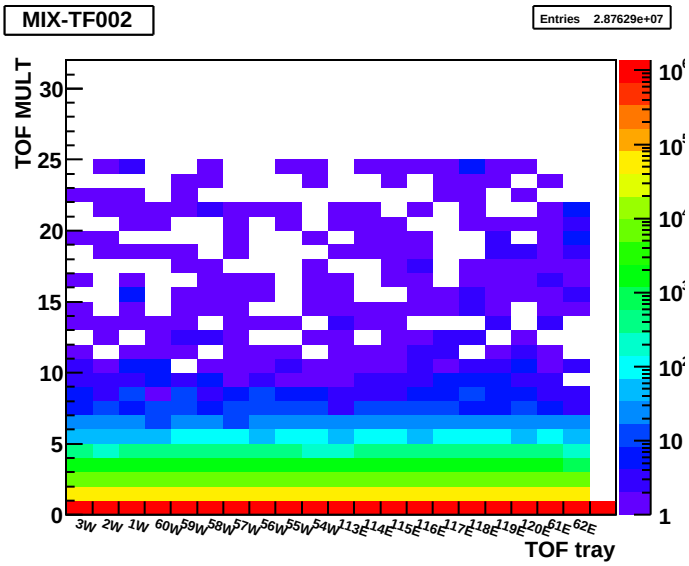

Endcap EMC L0 Input - Patch Sum
Entries 6.163479e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

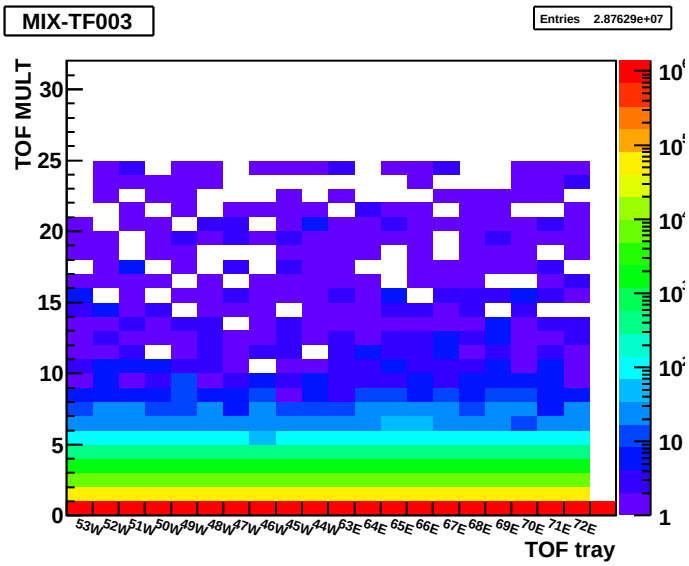

Barrel Jet Patches
Entries 1.232696e+07
JP ADC
JP ID

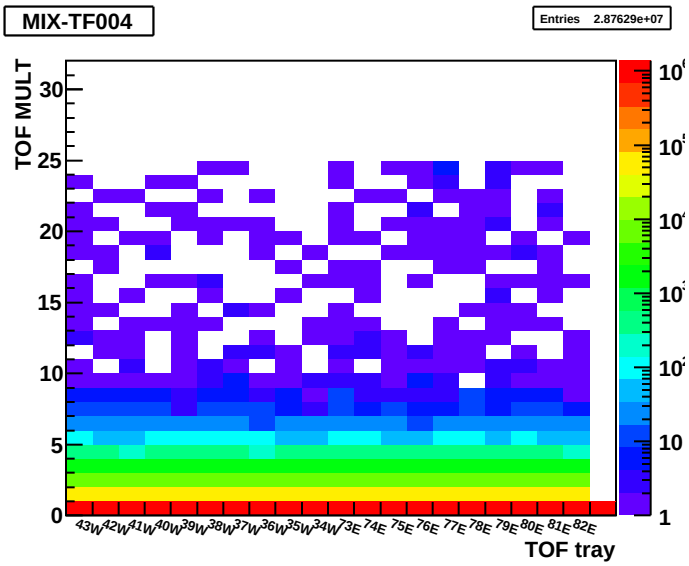

Endcap Jet Patches
Entries 4108986
JP ADC
JP ID

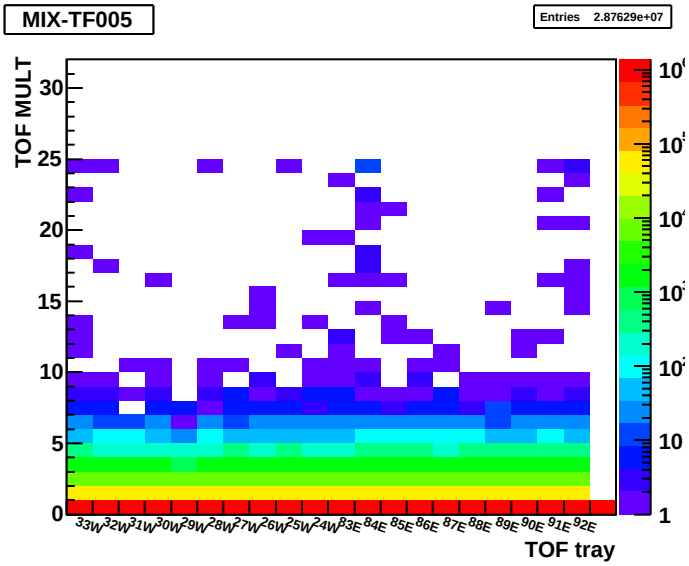

Hybrid Jet Patches
Entries 1369662
JP ADC
JP ID

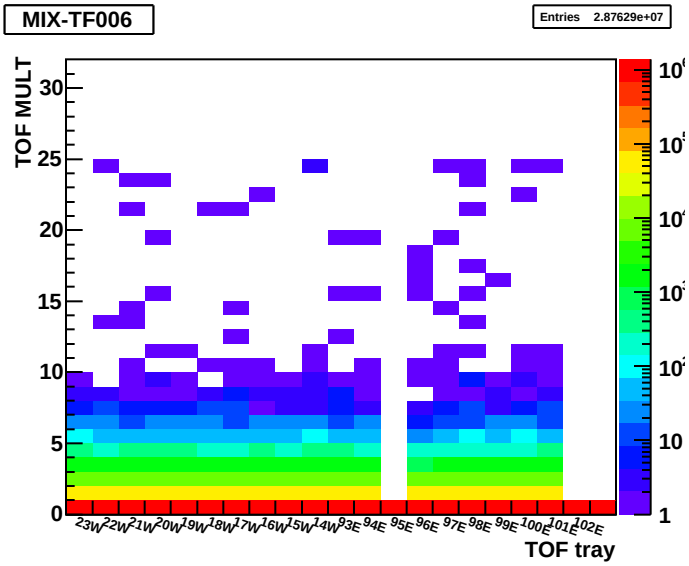

MIX-TF001
Entries 2.87629e+07
TOF MULT
TOF tray

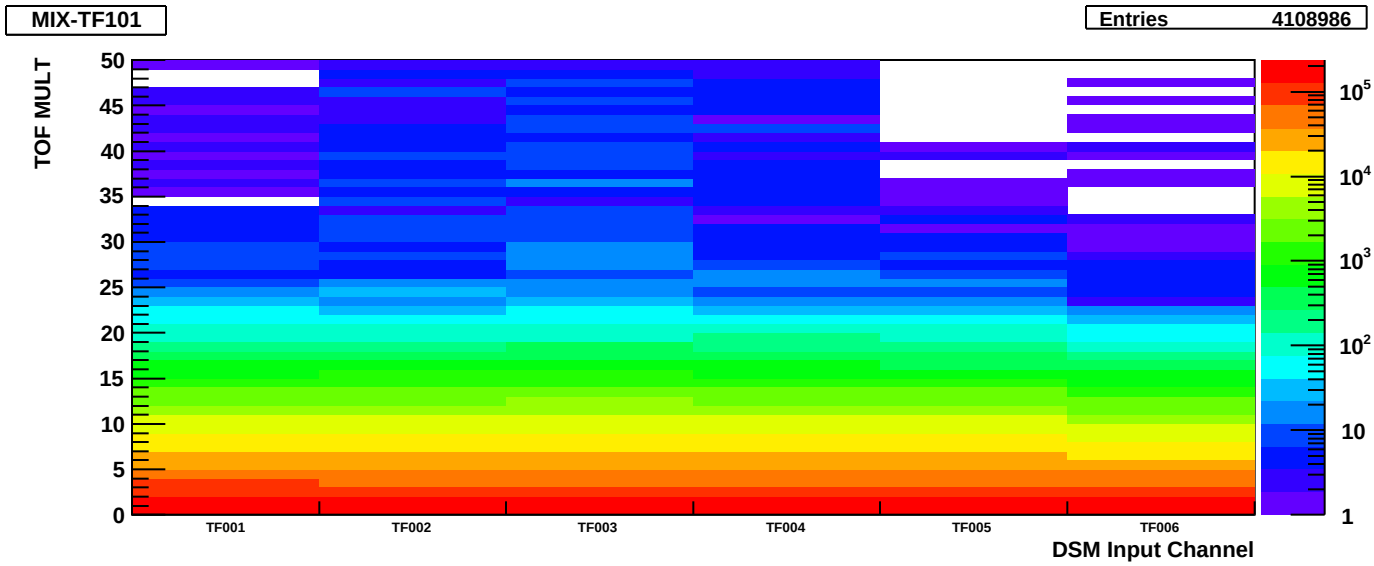

MIX-TF002
Entries 2.87629e+07
TOF MULT
TOF tray

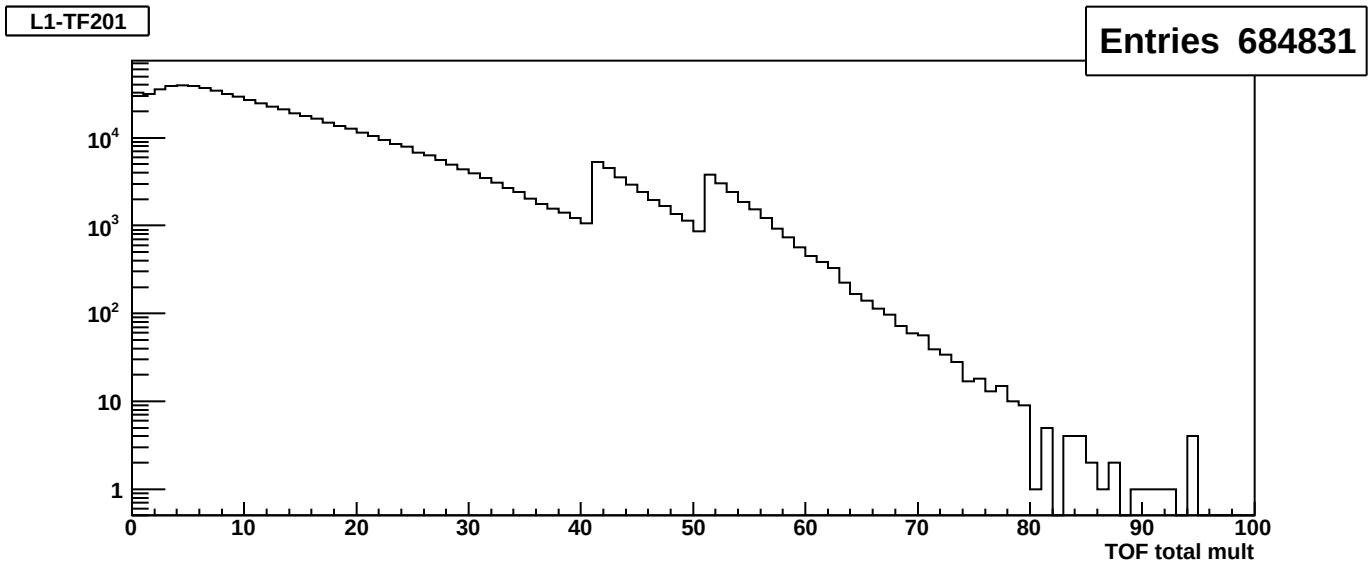

MIX-TF003
Entries 2.87629e+07
TOF MULT
TOF tray

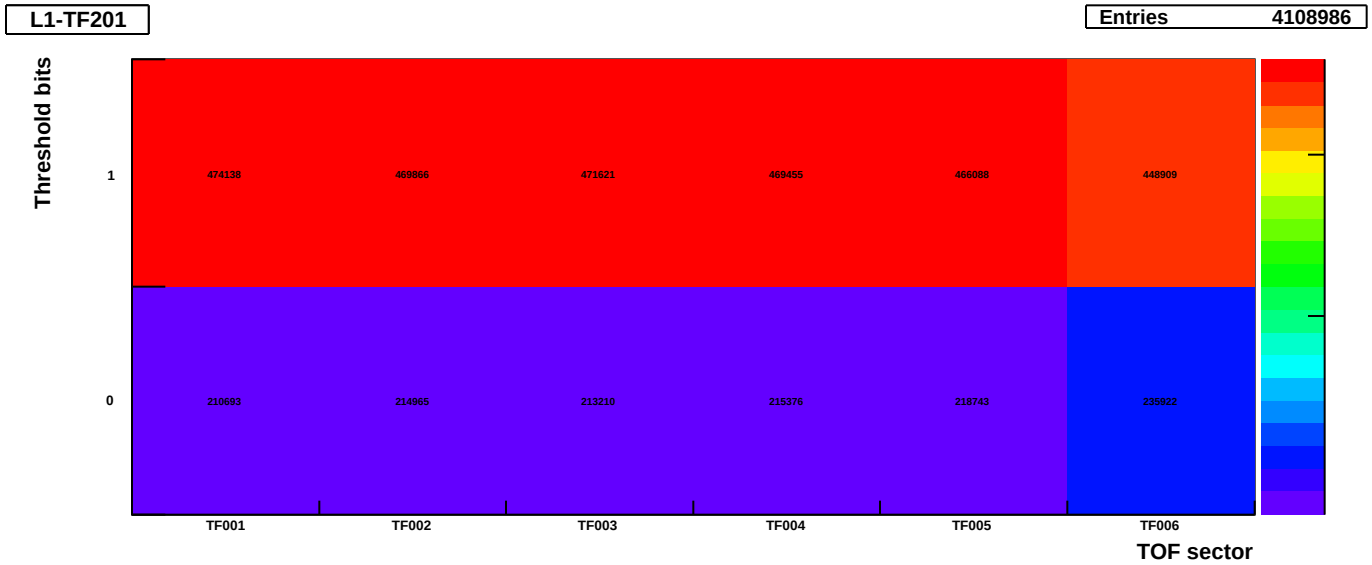

MIX-TF004
Entries 2.87629e+07
TOF MULT
TOF tray

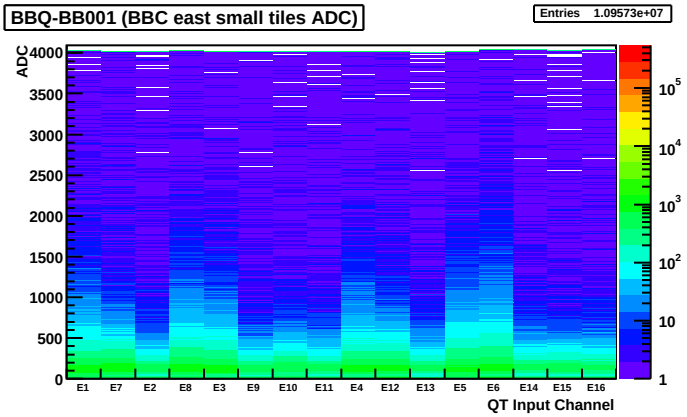

MIX-TF005
Entries 2.87629e+07
TOF MULT
TOF tray

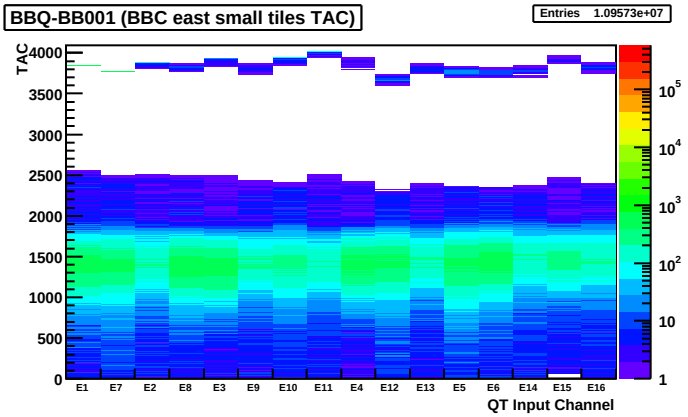

MIX-TF006
Entries 2.87629e+07
TOF MULT
TOF tray

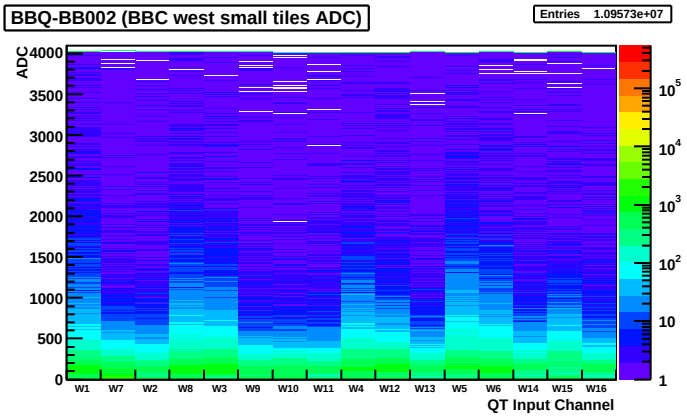

MIX-TF101
Entries 4108986
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

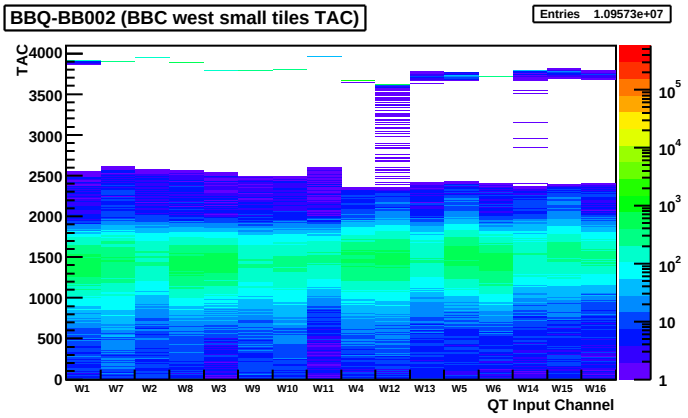

L1-TF201
Entries 684831
TOF total mult

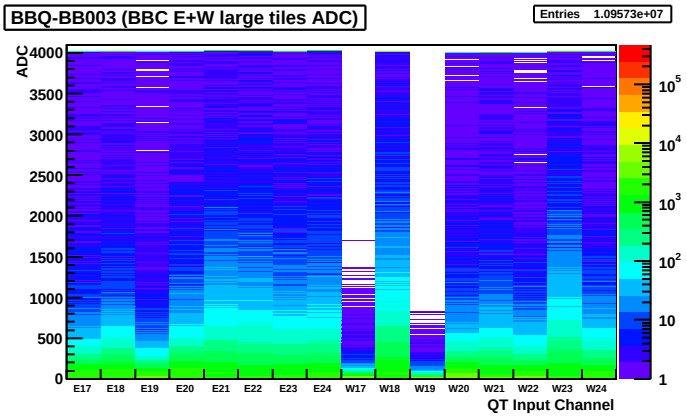

L1-TF201
Entries 4108986
Threshold bits
474138
469866
471621
469455
466088
448909
210693
214965
213210
215376
218743
235922
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

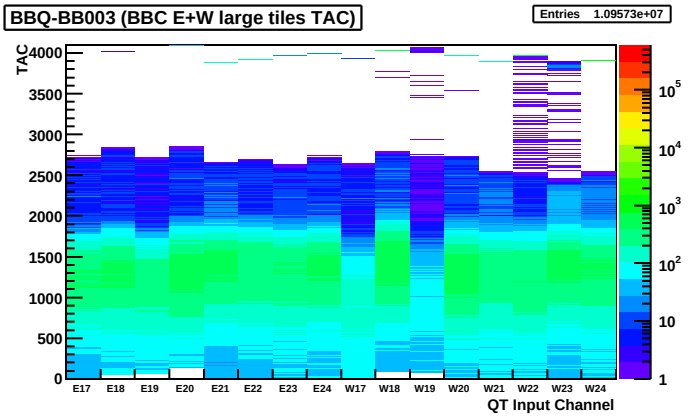

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.09573e+07
ADC
QT Input Channel

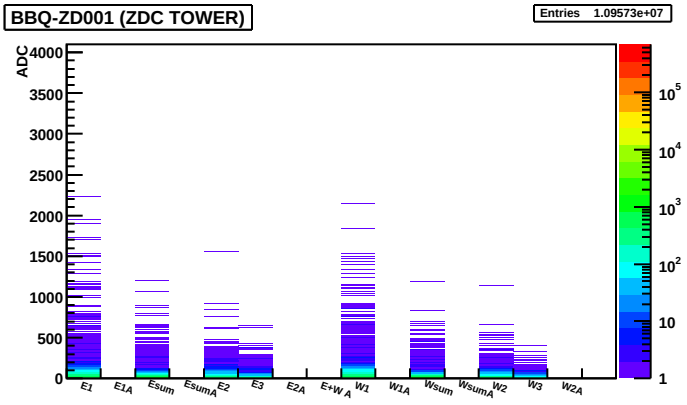

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.09573e+07
TAC
QT Input Channel

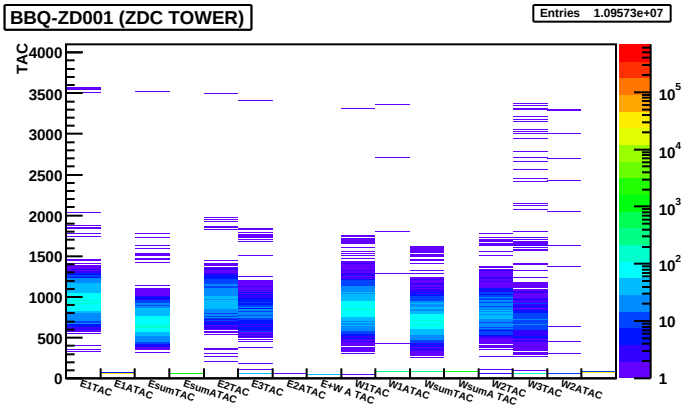

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.09573e+07
ADC
QT Input Channel

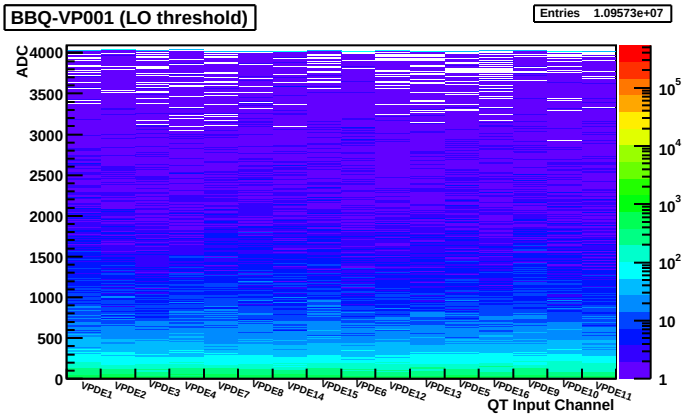

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.09573e+07
TAC
QT Input Channel

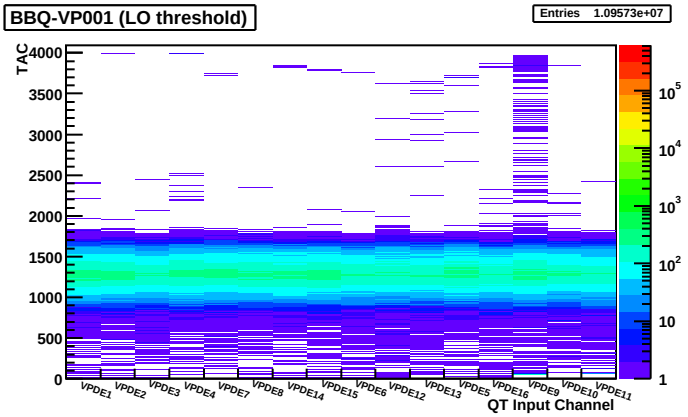

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.09573e+07
ADC
QT Input Channel

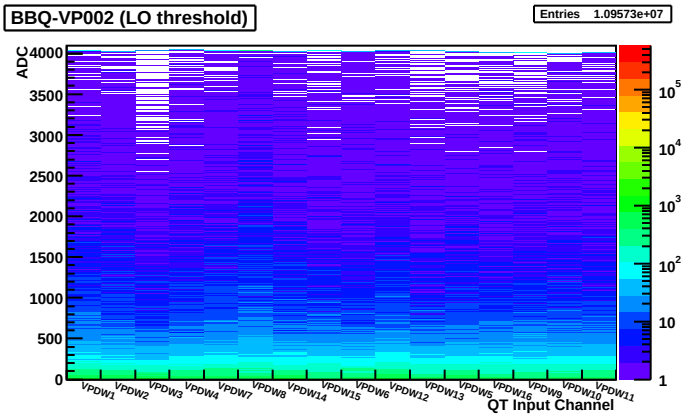

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.09573e+07
TAC
QT Input Channel

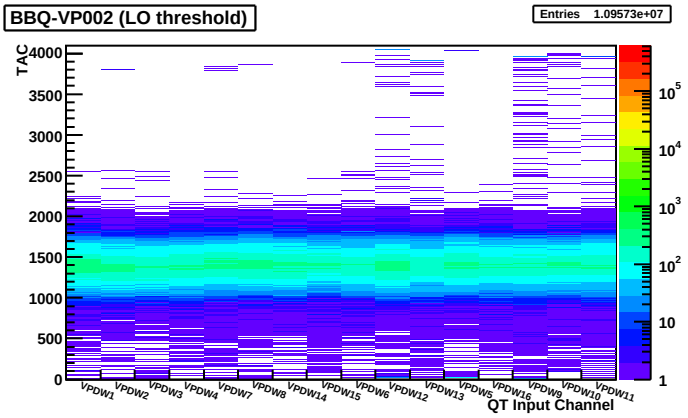

BBQ-ZD001 (ZDC TOWER)
Entries 1.09573e+07
ADC

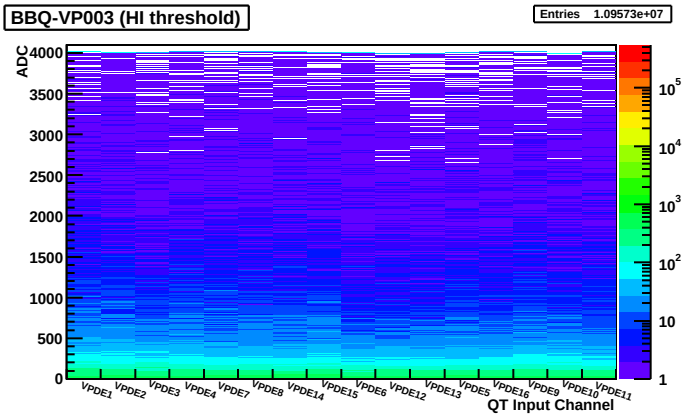

BBQ-ZD001 (ZDC TOWER)
Entries 1.09573e+07
TAC

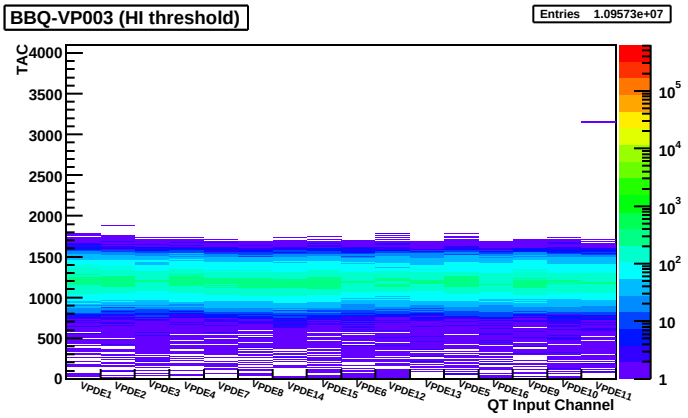

BBQ-VP001 (LO threshold)
Entries 1.09573e+07
ADC
QT Input Channel

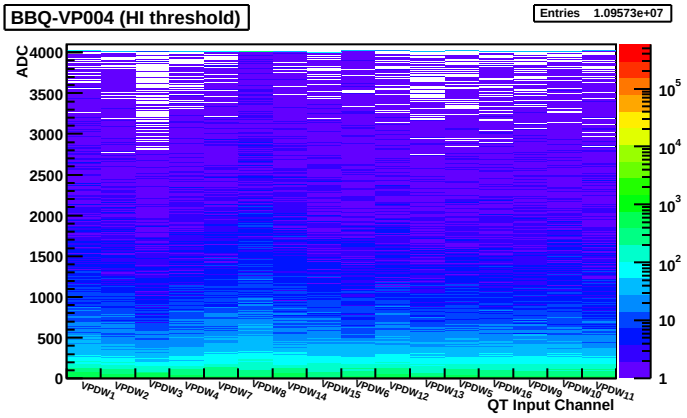

BBQ-VP001 (LO threshold)
Entries 1.09573e+07
TAC
QT Input Channel

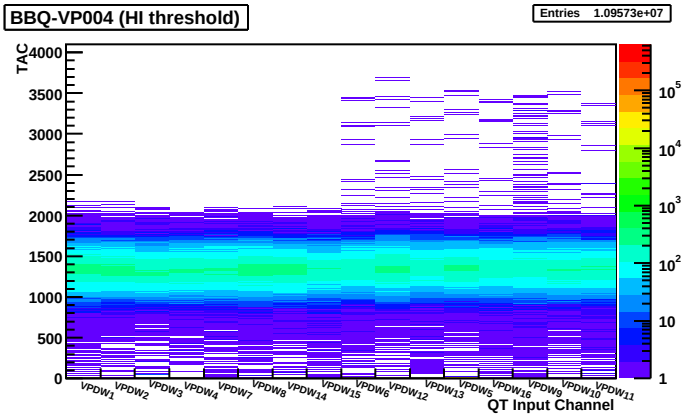

BBQ-VP002 (LO threshold)
Entries 1.09573e+07
ADC
QT Input Channel

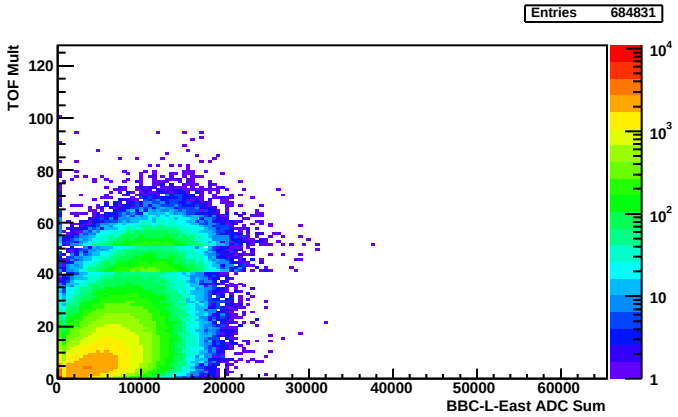

BBQ-VP002 (LO threshold)
Entries 1.09573e+07
TAC
QT Input Channel

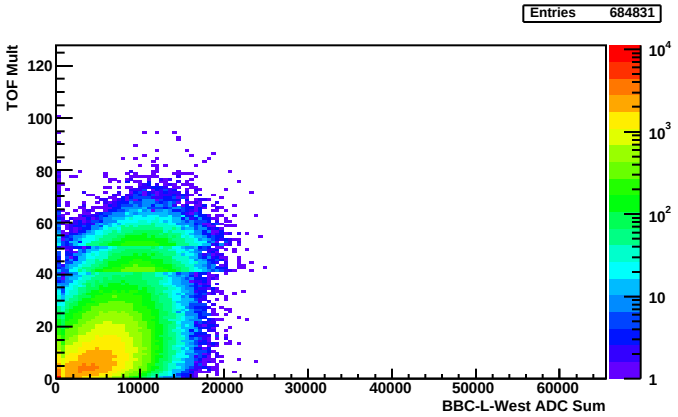

BBQ-VP003 (HI threshold)
Entries 1.09573e+07
ADC
QT Input Channel

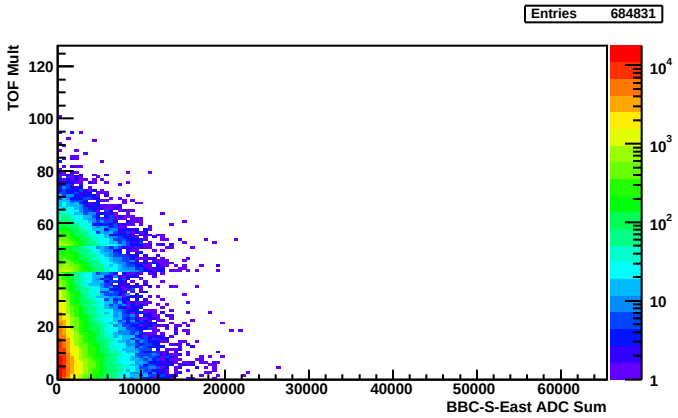

BBQ-VP003 (HI threshold)
Entries 1.09573e+07
TAC
QT Input Channel

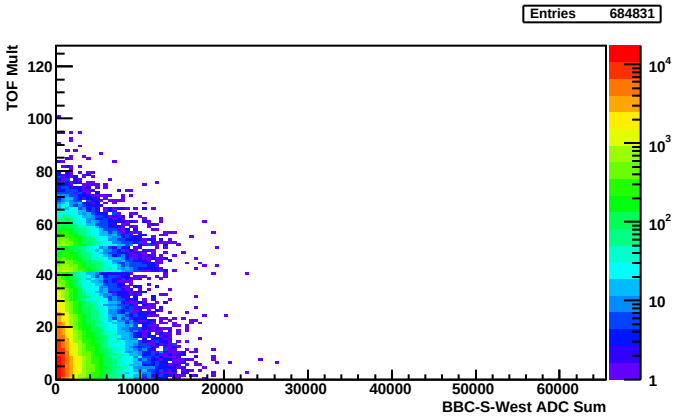

BBQ-VP004 (HI threshold)
Entries 1.09573e+07
ADC
QT Input Channel

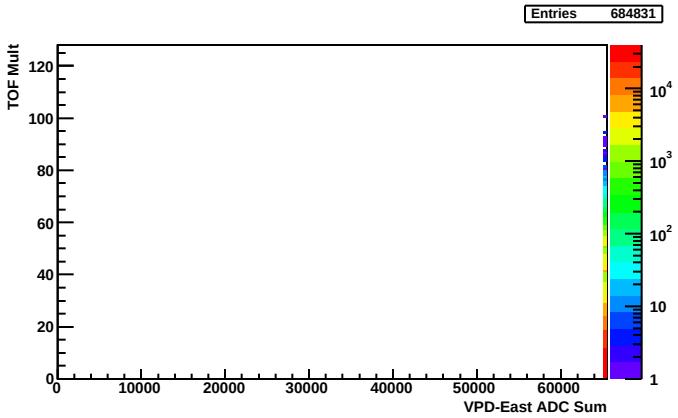

BBQ-VP004 (HI threshold)
Entries 1.09573e+07
TAC
QT Input Channel

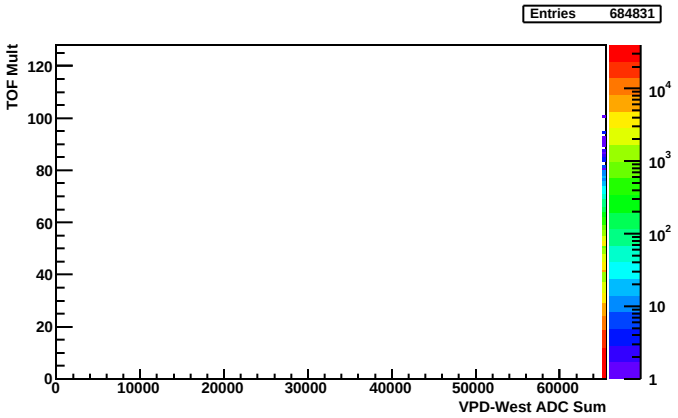

Entries 684831
TOF Mult
BBC-L-East ADC Sum

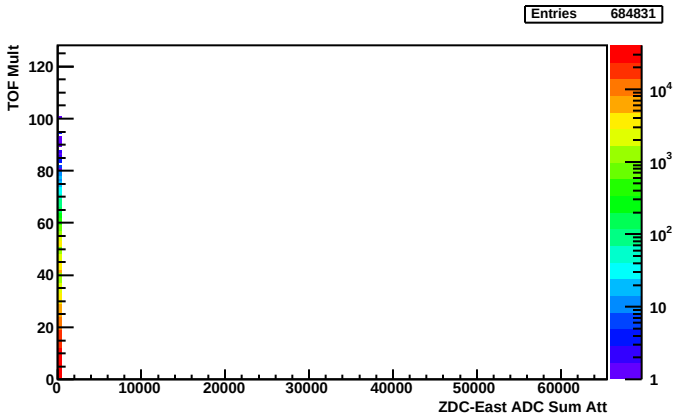

Entries 684831
TOF Mult
BBC-L-West ADC Sum

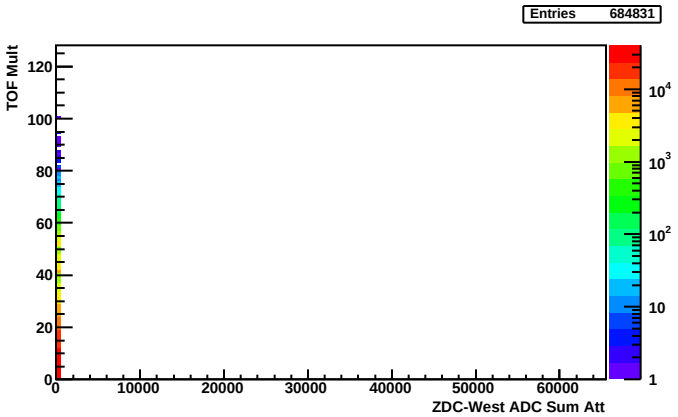

Entries 684831
TOF Mult
BBC-S-East ADC Sum

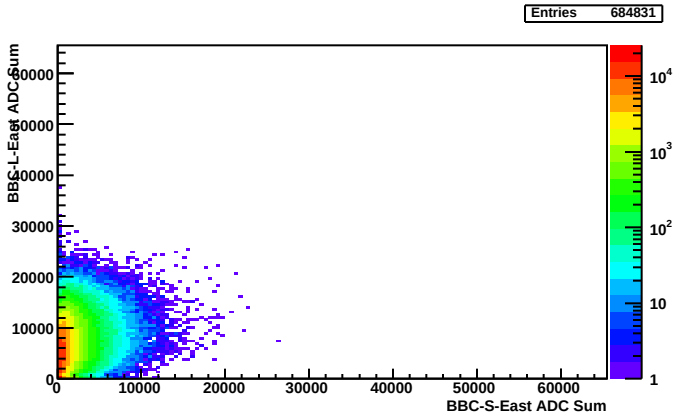

Entries 684831
TOF Mult
BBC-S-West ADC Sum

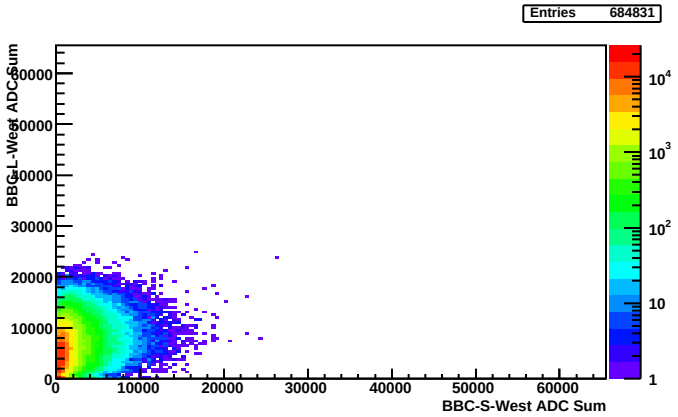

Entries 684831
TOF Mult
VPD-East ADC Sum

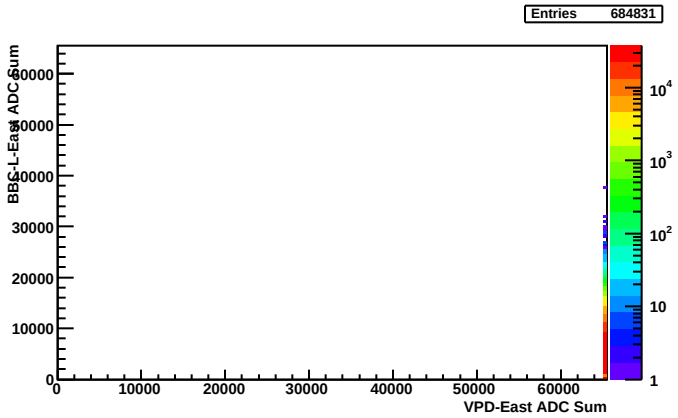

Entries 684831
TOF Mult
VPD-West ADC Sum

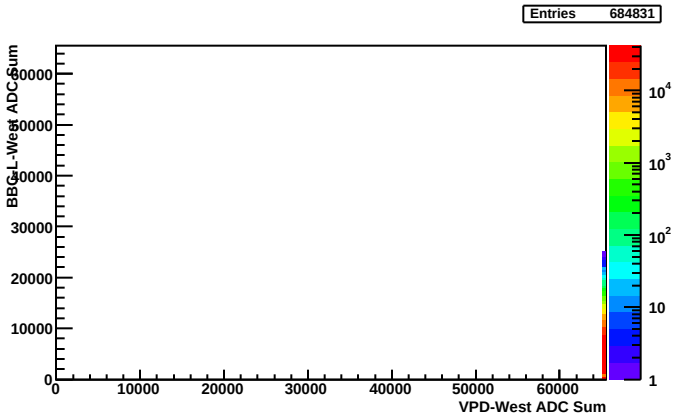

Entries 684831
TOF Mult
ZDC-East ADC Sum Att

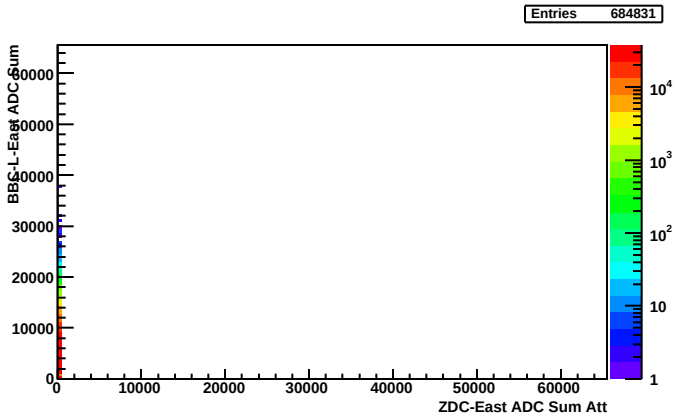

Entries 684831
TOF Mult
ZDC-West ADC Sum Att

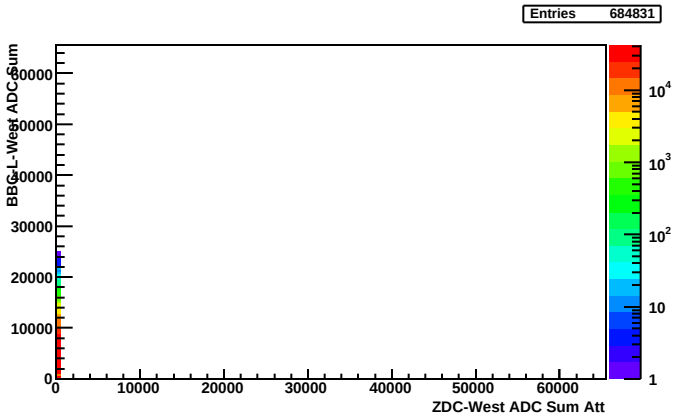

Entries 684831
BBC-L-East ADC Sum
BBC-S-East ADC Sum

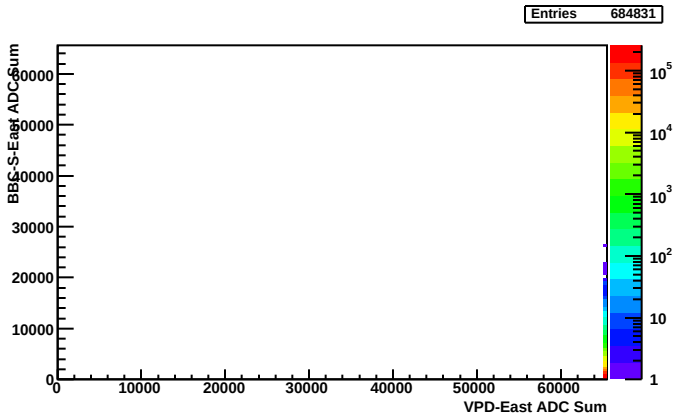

Entries 684831
BBC-L-West ADC Sum
BBC-S-West ADC Sum

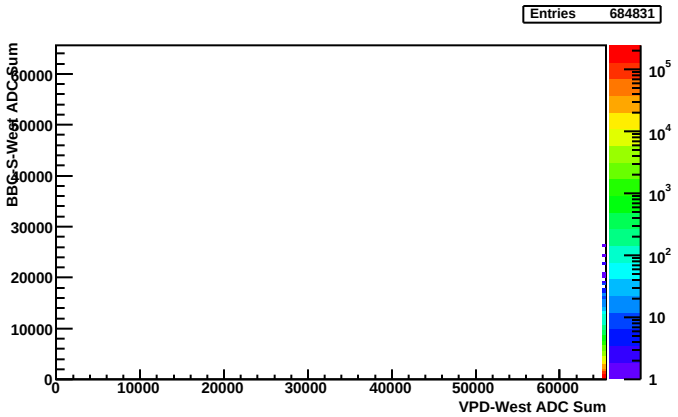

Entries 684831
BBC-L-East ADC Sum
VPD-East ADC Sum

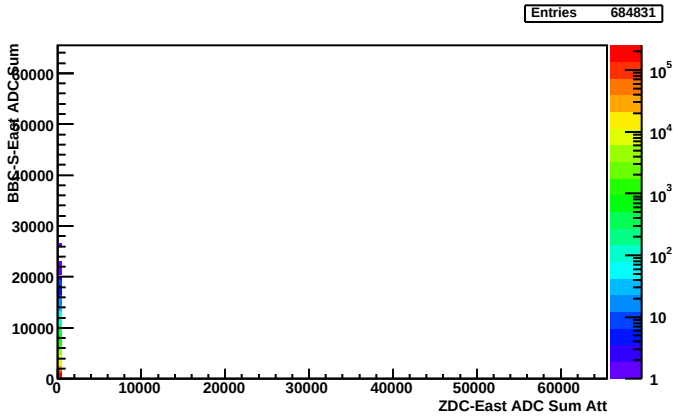

Entries 684831
BBC-L-West ADC Sum
VPD-West ADC Sum

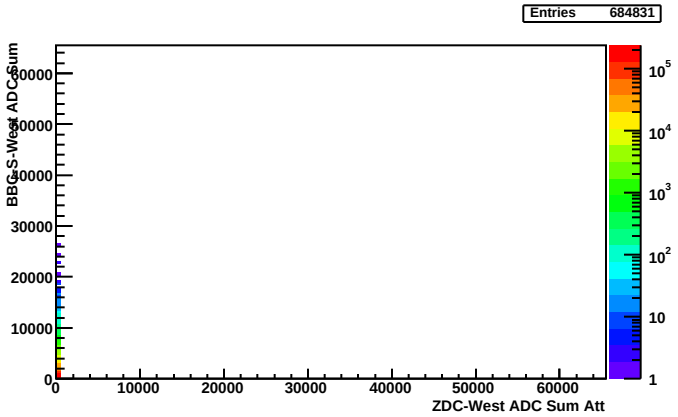

Entries 684831
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

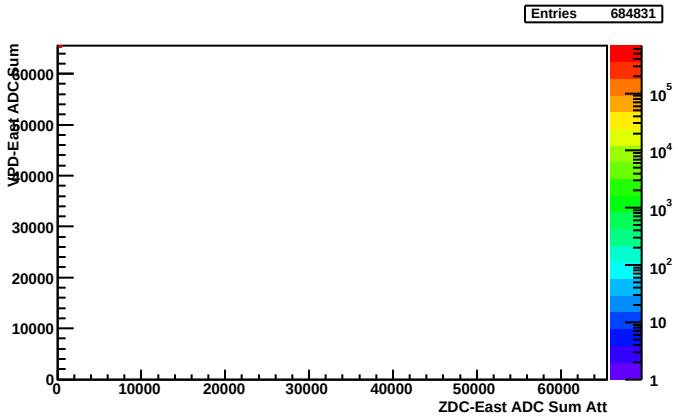

Entries 684831
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

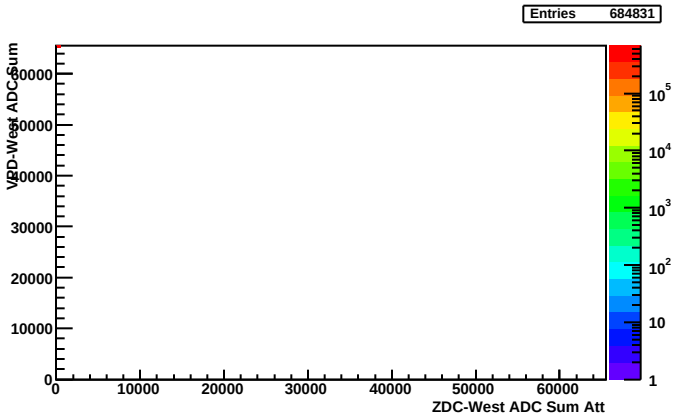

Entries 684831
BBC-S-East ADC Sum
VPD-East ADC Sum

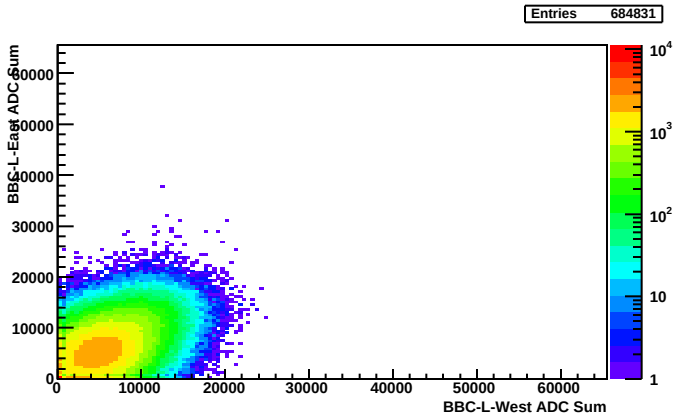

Entries 684831
BBC-S-West ADC Sum
VPD-West ADC Sum

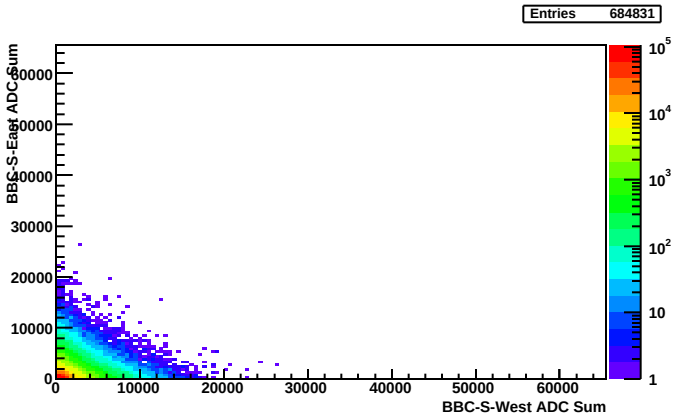

Entries 684831
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

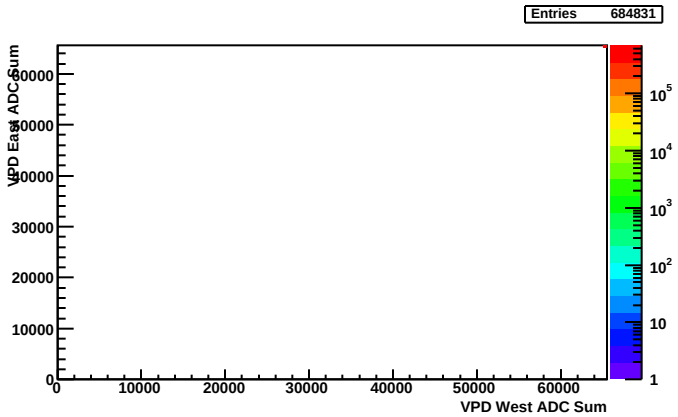

Entries 684831
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

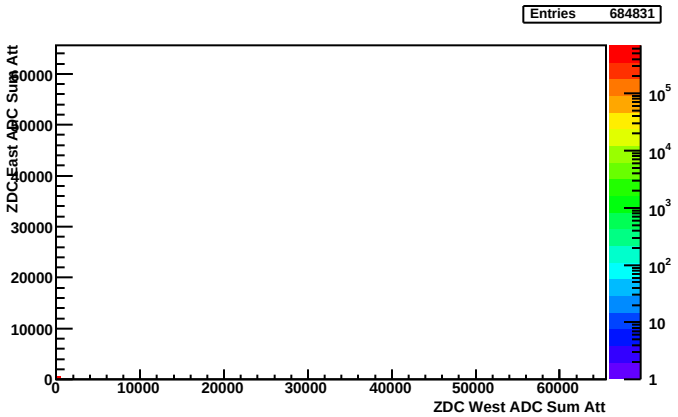

Entries 684831
VPD-East ADC Sum
ZDC-East ADC Sum Att

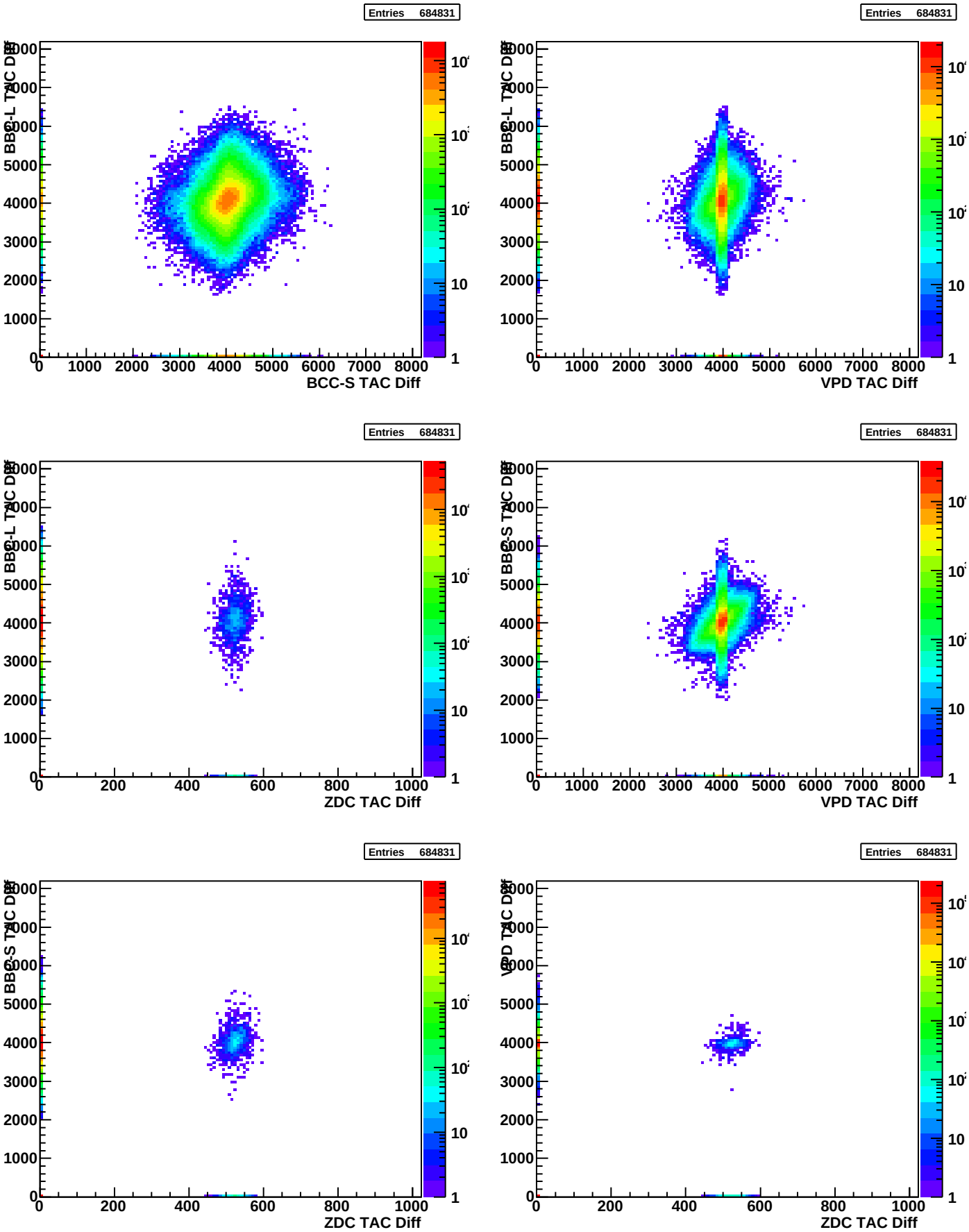

Entries 684831
VPD-West ADC Sum
ZDC-West ADC Sum Att

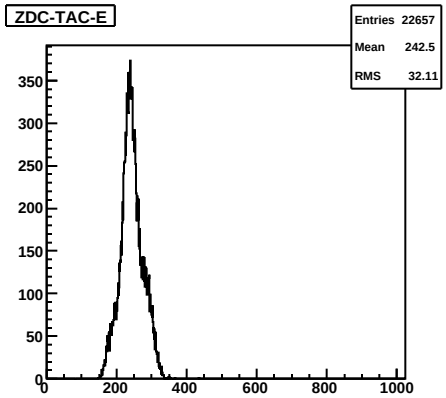

Entries 684831
BBC-L-East ADC Sum
BBC-L-West ADC Sum

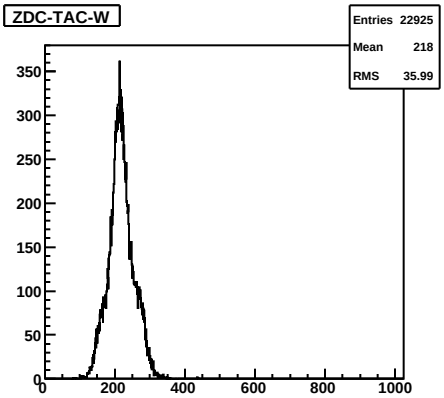

Entries 684831
BBC-S-East ADC Sum
BBC-S-West ADC Sum

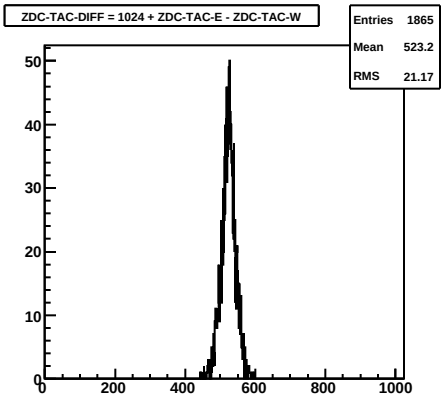

Entries 684831
VPD East ADC Sum
VPD West ADC Sum

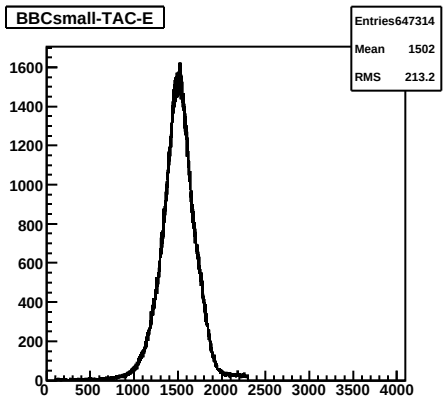

Entries 684831
ZDC East ADC Sum Att
ZDC West ADC Sum Att

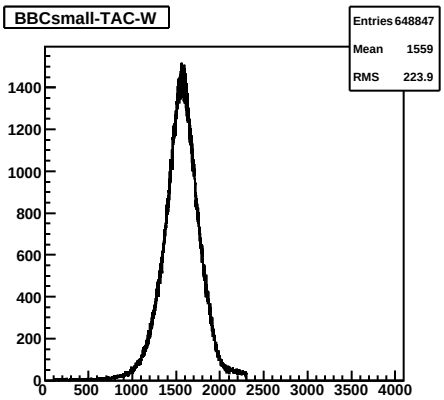

Entries 684831
BBC-L TAC Diff
BCC-S TAC Diff
Entries 684831
BBC-L TAC Diff
VPD TAC Diff
Entries 684831
BBC-L TAC Diff
ZDC TAC Diff
Entries 684831
BBC-S TAC Diff
VPD TAC Diff
Entries 684831
BBC-S TAC Diff
ZDC TAC Diff
Entries 684831
VPD TAC Diff
ZDC TAC Diff

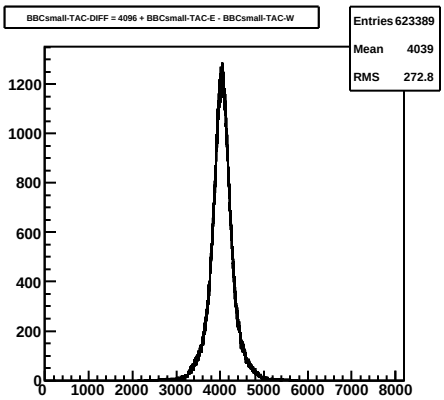

ZDC-TAC-E
Entries 22657
Mean 242.5
RMS 32.11

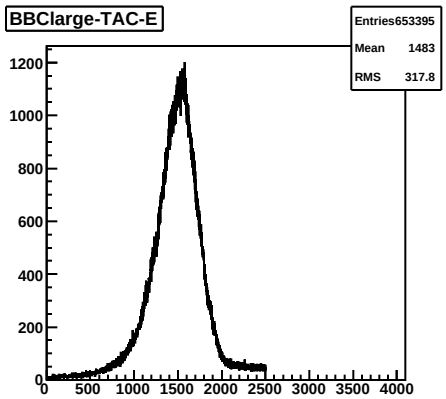

ZDC-TAC-W
Entries 22925
Mean 218
RMS 35.99

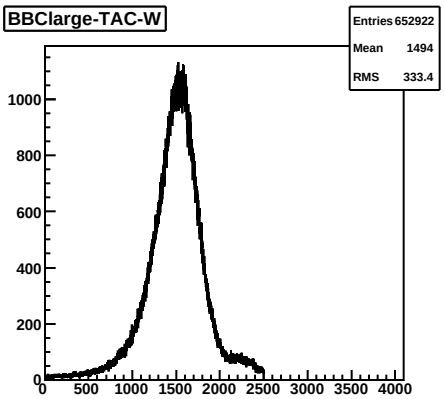

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1865
Mean 523.2
RMS 21.17

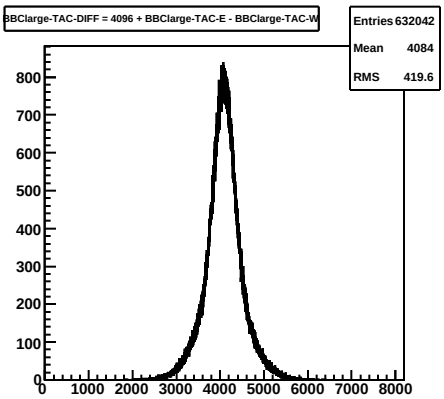

BBCsmall-TAC-E
Entries647314
Mean 1502
RMS 213.2

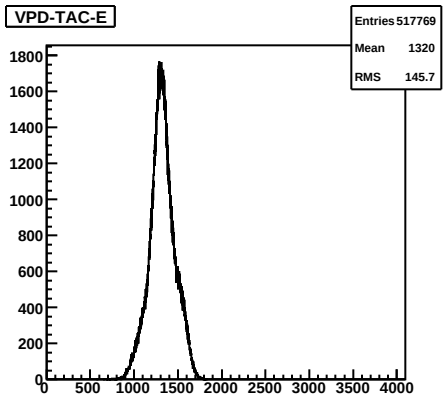

BBCsmall-TAC-W
Entries 648847
Mean 1559
RMS 223.9

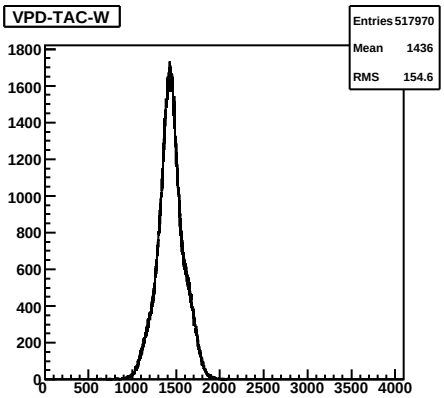

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 623389
Mean 4039
RMS 272.8

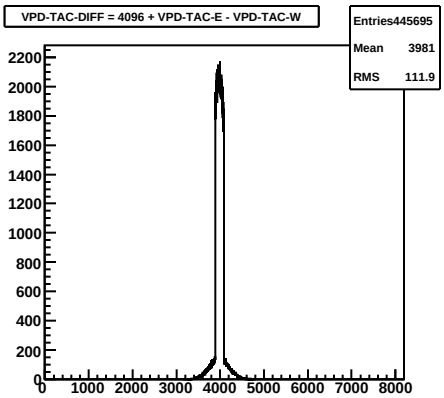

BBClarge-TAC-E
Entries653395
Mean 1483
RMS 317.8

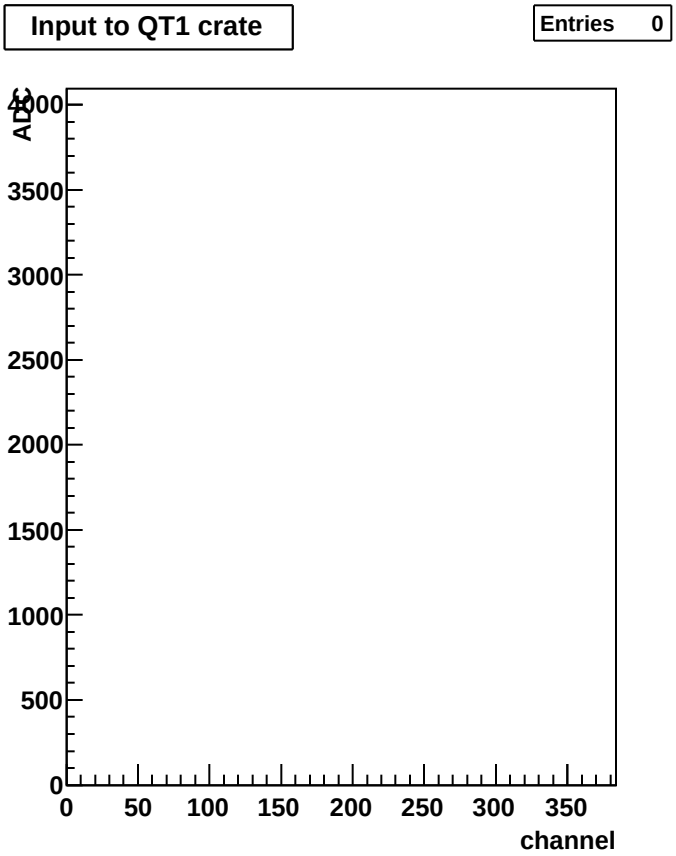

BBClarge-TAC-W
Entries 652922
Mean 1494
RMS 333.4

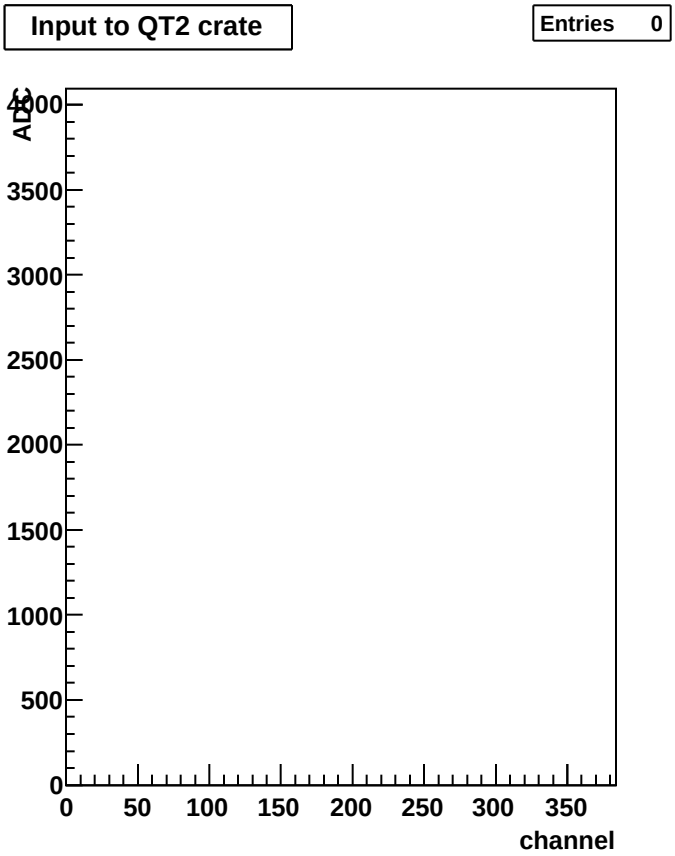

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 632042
Mean 4084
RMS 419.6

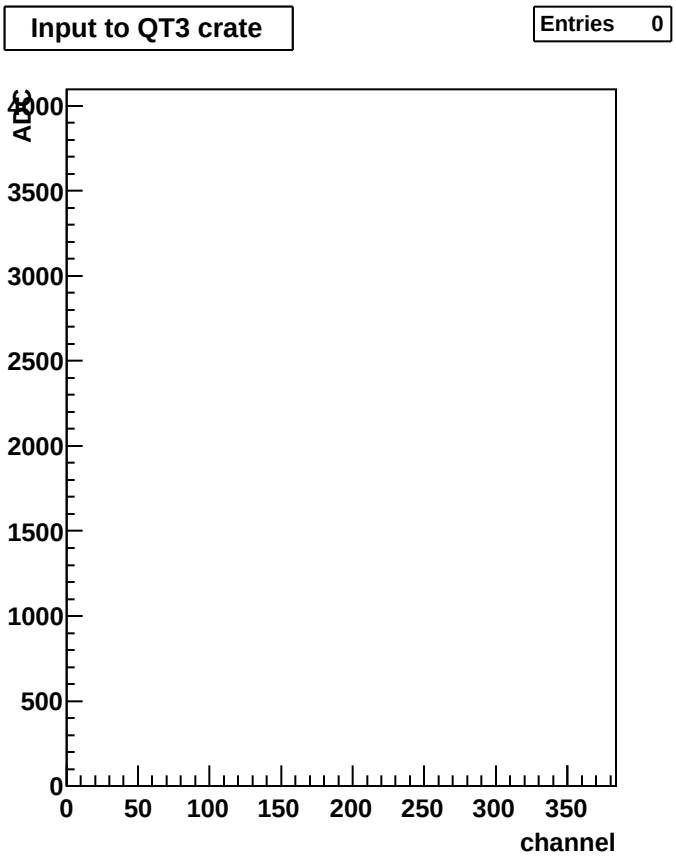

VPD-TAC-E
Entries 517769
Mean 1320
RMS 145.7

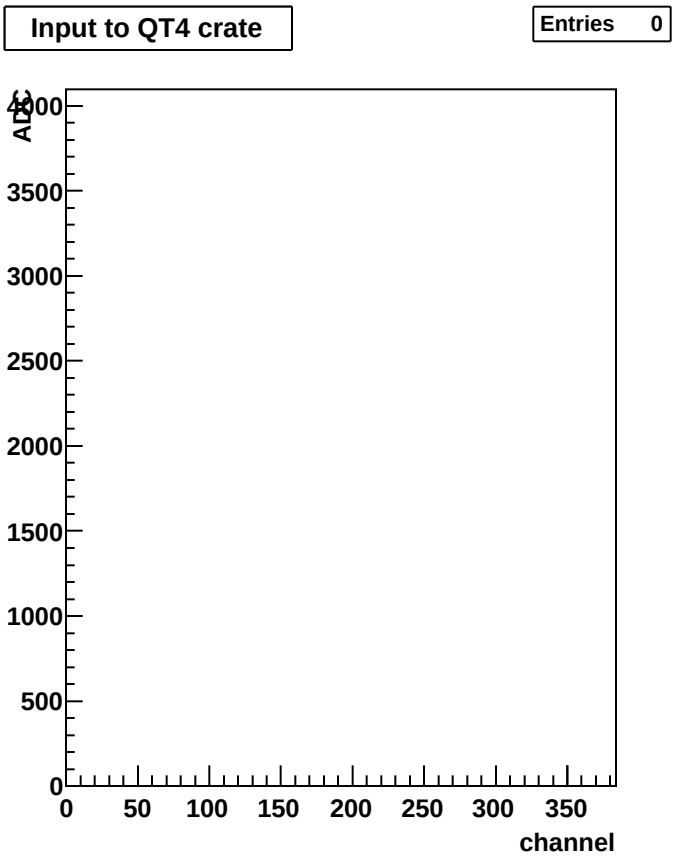

VPD-TAC-W
Entries 517970
Mean 1436
RMS 154.6

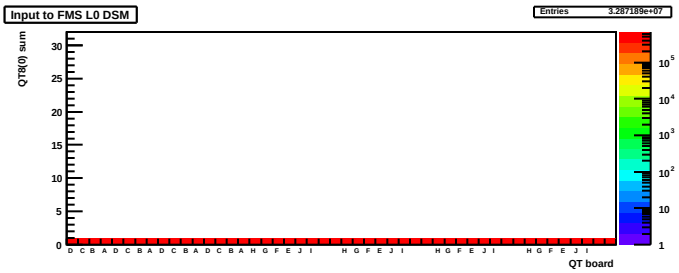

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries445695
Mean 3981
RMS 111.9

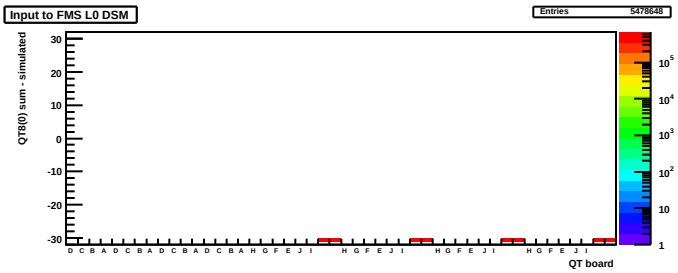

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

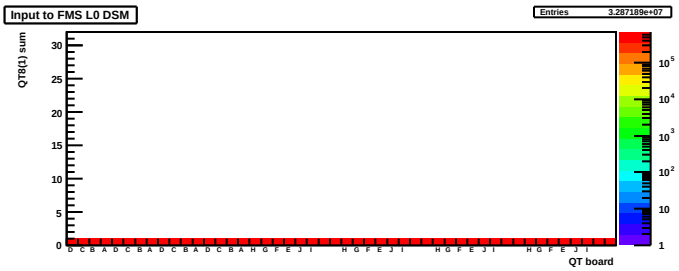

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

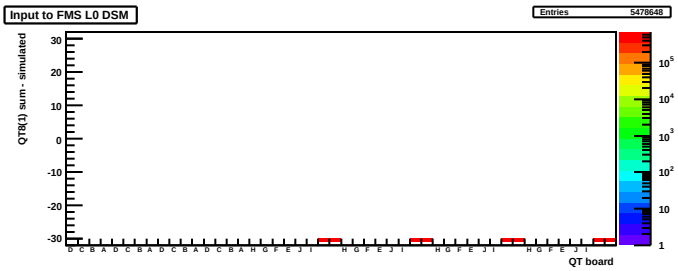

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

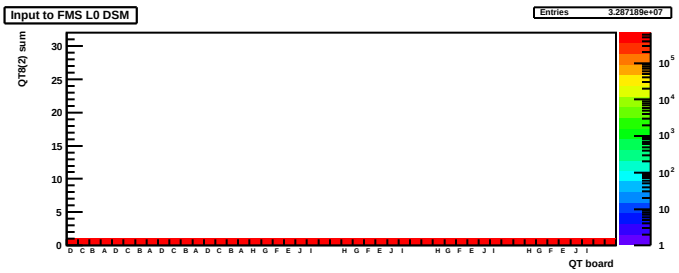

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

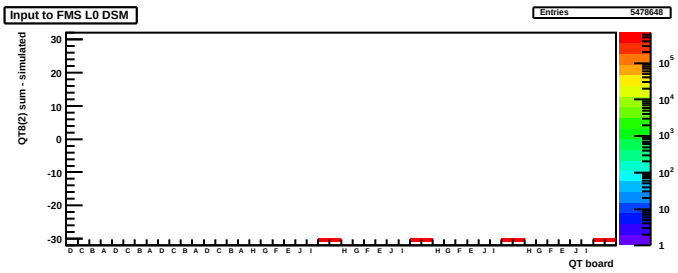

Input to FMS L0 DSM
Entries 3.287189e+07
QT8(0) sum
QT board

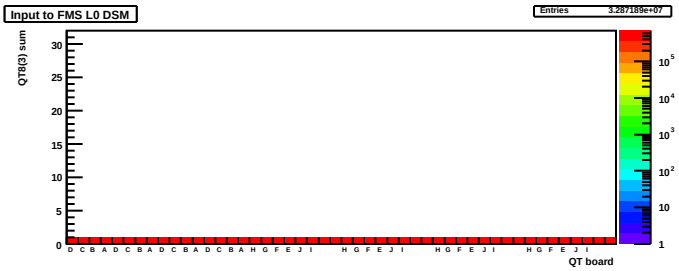

Input to FMS L0 DSM
Entries 5478648
QT8(0) sum - simulated
QT board

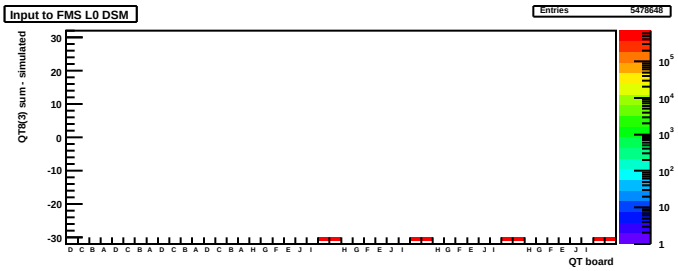

Input to FMS L0 DSM
Entries 3.287189e+07
QT8(1) sum
QT board

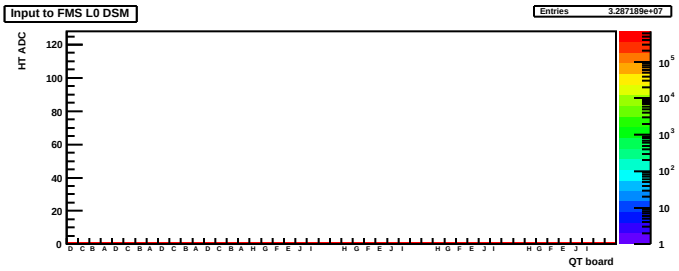

Input to FMS L0 DSM
Entries 5478648
QT8(1) sum - simulated
QT board

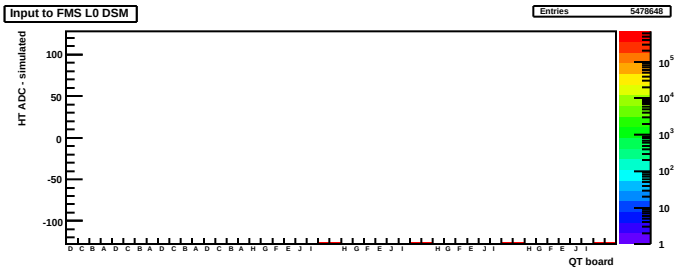

Input to FMS L0 DSM
Entries 3.287189e+07
QT8(2) sum
QT board

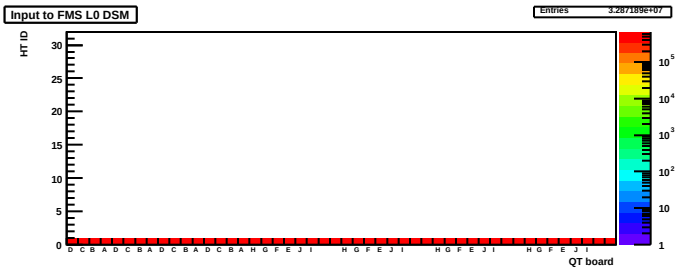

Input to FMS L0 DSM
Entries 5478648
QT8(2) sum - simulated
QT board

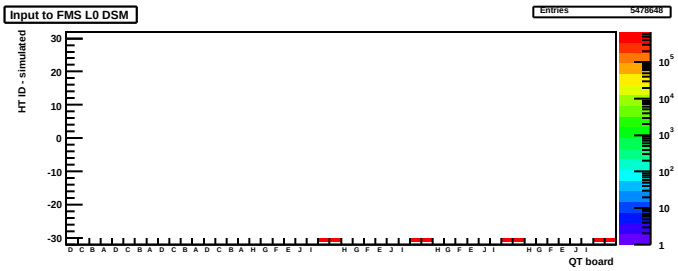

Input to FMS L0 DSM
Entries 3.287189e+07
QT8(3) sum
QT board

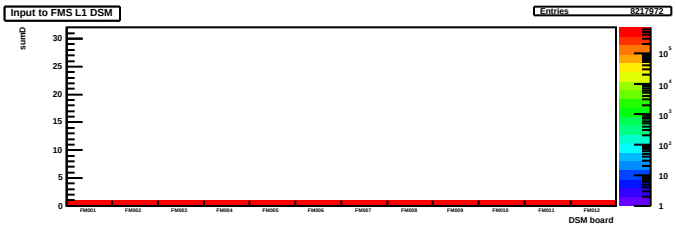

Input to FMS L0 DSM
Entries 5478648
QT8(3) sum - simulated
QT board

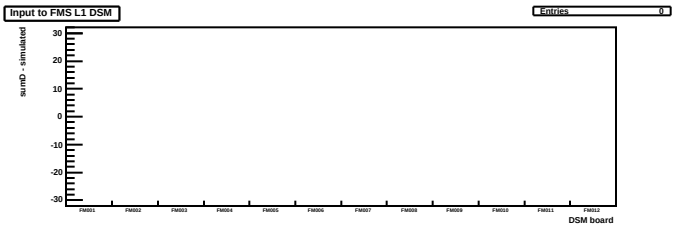

Input to FMS L0 DSM
Entries 3.287189e+07
HT ADC
QT board

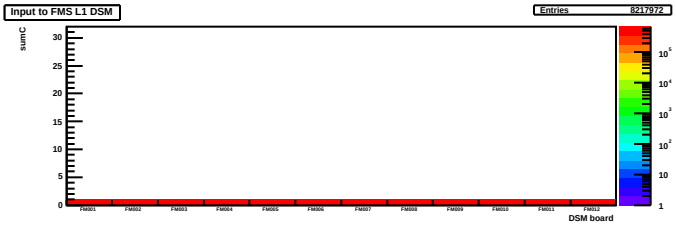

Input to FMS L0 DSM
Entries 5478648
HT ADC - simulated
QT board

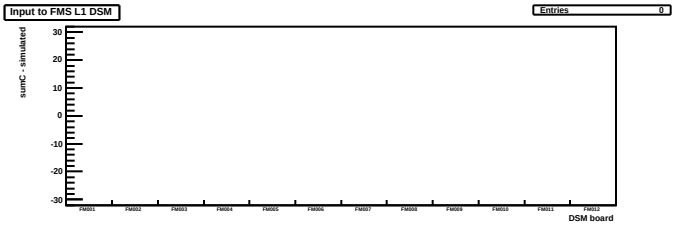

Input to FMS L0 DSM
Entries 3.287189e+07
HT ID
QT board

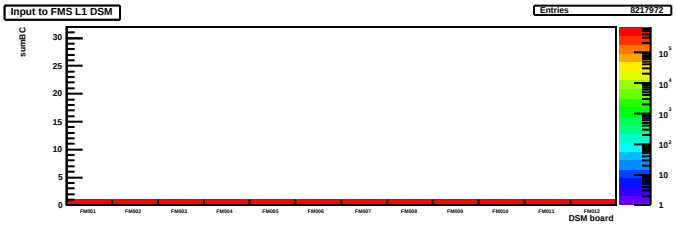

Input to FMS L0 DSM
Entries 5478648
HT ID - simulated
QT board

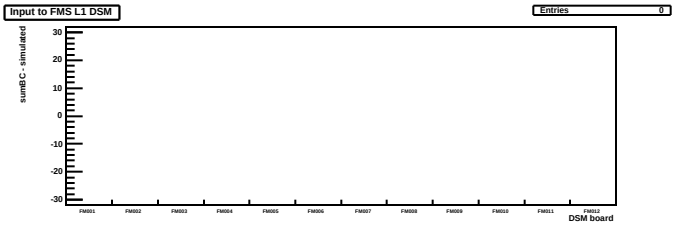

Input to FMS L1 DSM
Entries 8217972
sumD
DSM board

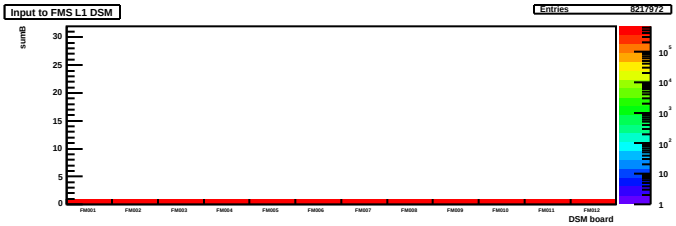

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

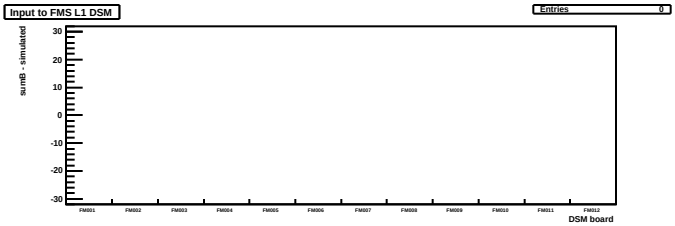

Input to FMS L1 DSM
Entries 8217972
sumC
DSM board

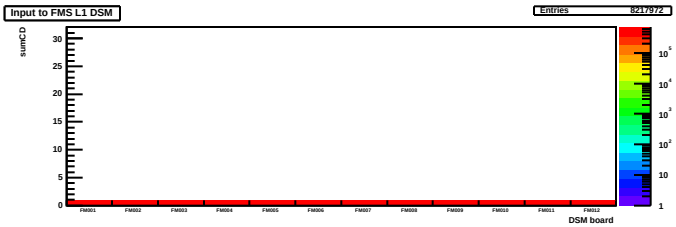

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

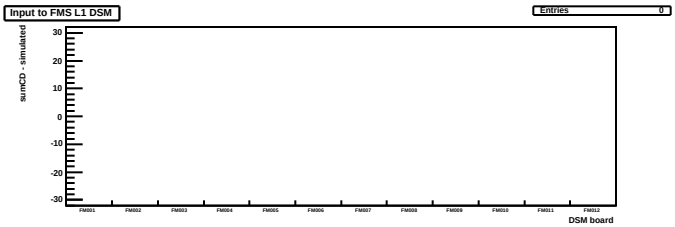

Input to FMS L1 DSM
Entries 8217972
sumBC
DSM board

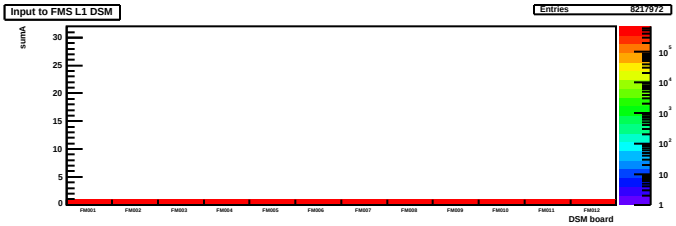

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

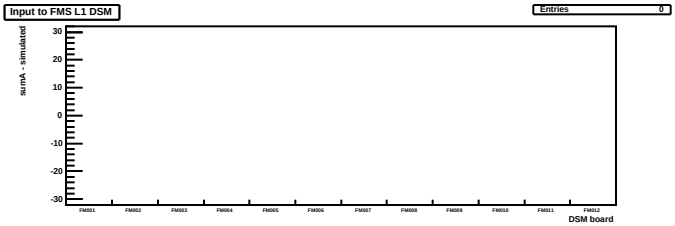

Input to FMS L1 DSM
Entries 8217972
sumB
DSM board

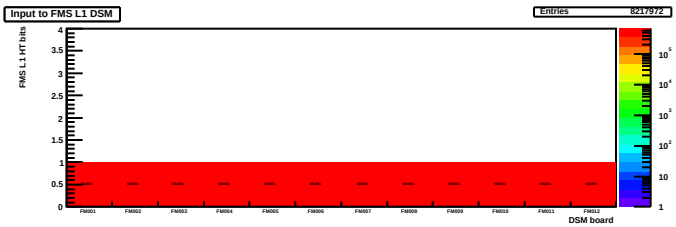

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

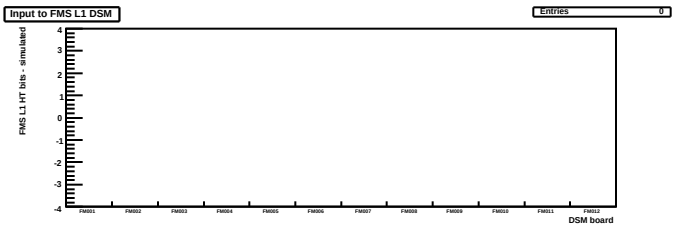

Input to FMS L1 DSM
Entries 8217972
sumCD
DSM board

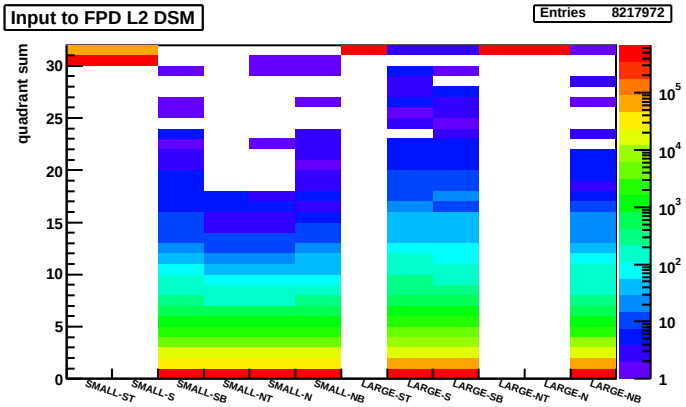

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

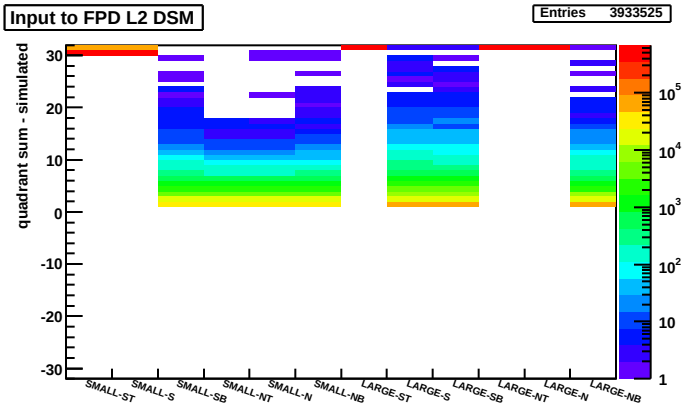

Input to FMS L1 DSM
Entries 8217972
sumA
DSM board

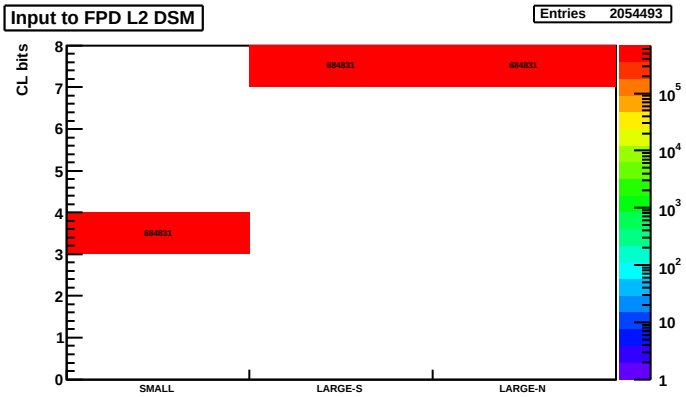

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

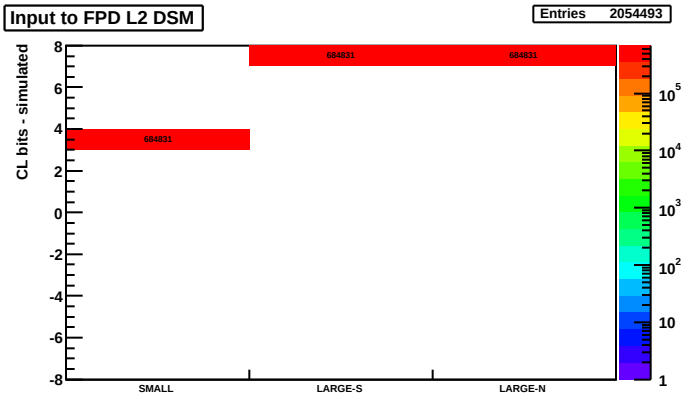

Input to FMS L1 DSM
Entries 8217972
FMS L1 HT bits
DSM board

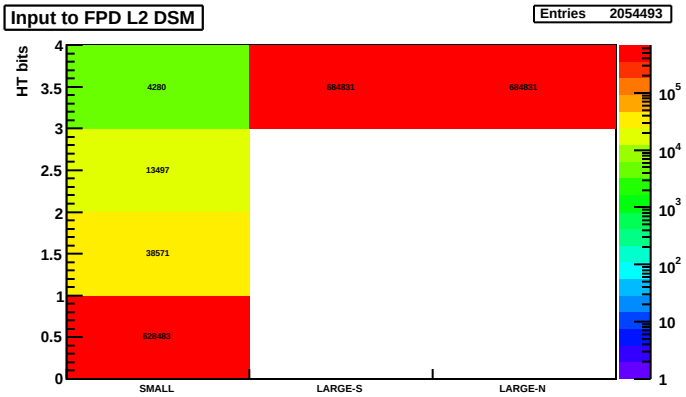

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

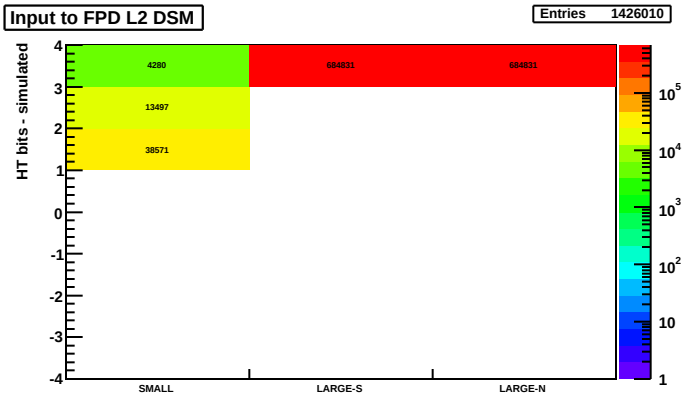

Input to FPD L2 DSM
Entries 8217972
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

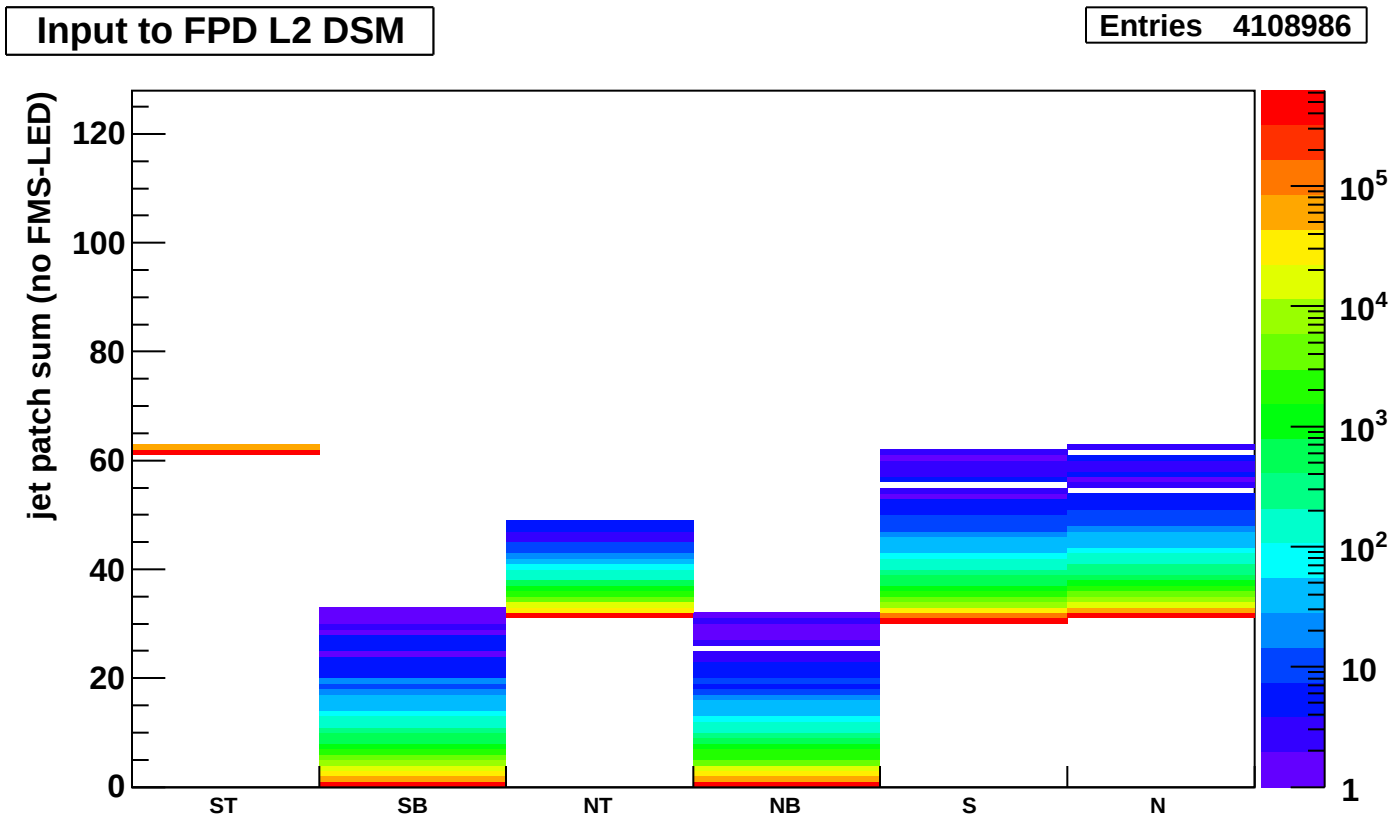

Input to FPD L2 DSM
Entries 3933525
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

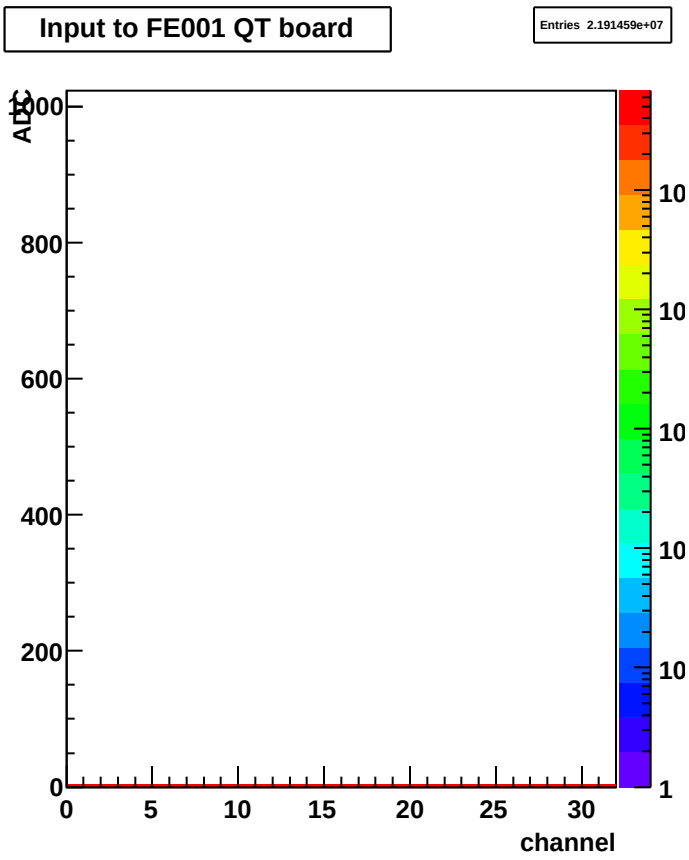

Input to FPD L2 DSM
Entries 2054493
CL bits
684831
684831
684831
SMALL
LARGE-S
LARGE-N

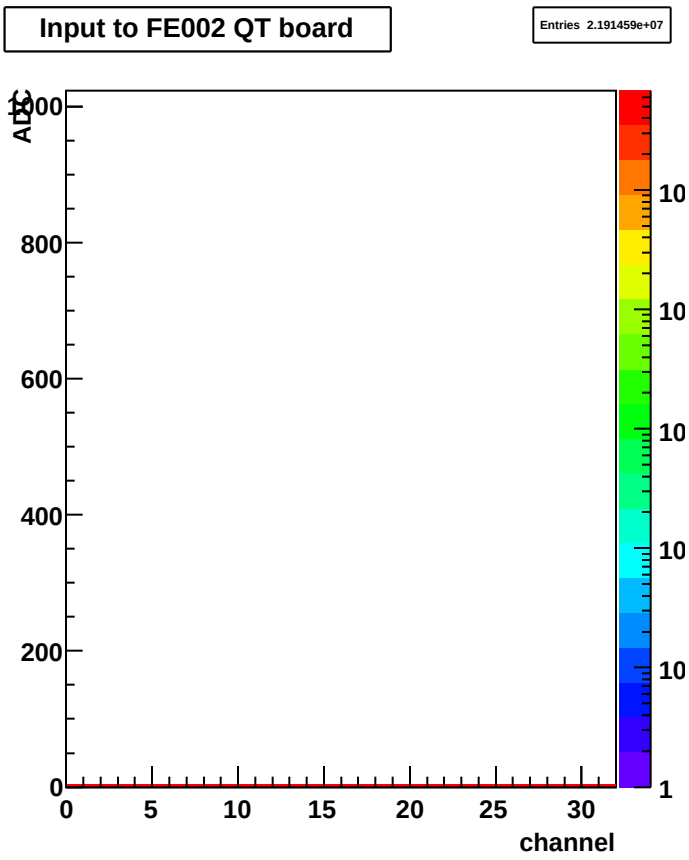

Input to FPD L2 DSM
Entries 2054493
CL bits - simulated
684831
684831
684831
SMALL
LARGE-S
LARGE-N

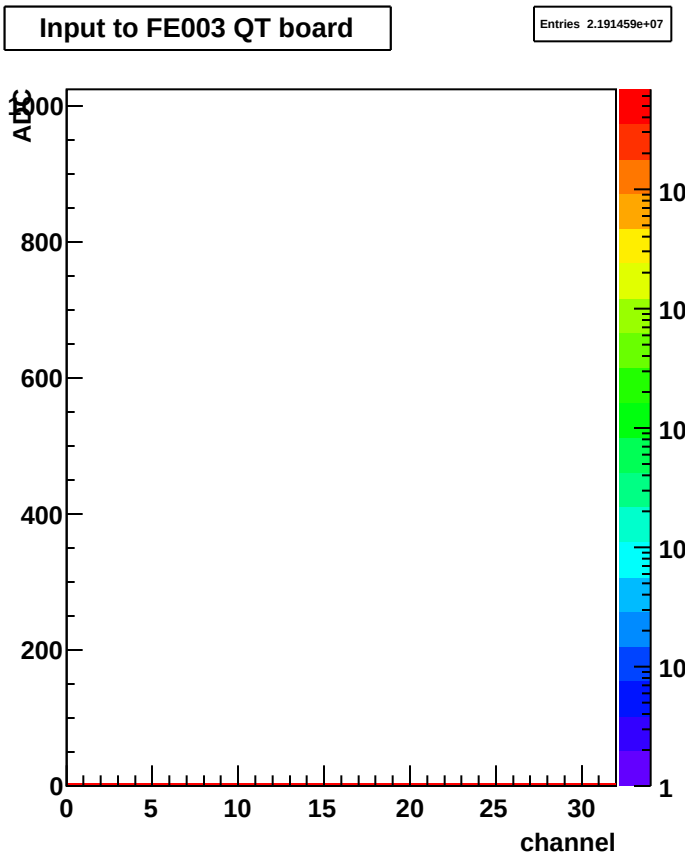

Input to FPD L2 DSM
Entries 2054493
HT bits
4280
13497
38571
628483
684831
684831
SMALL
LARGE-S
LARGE-N

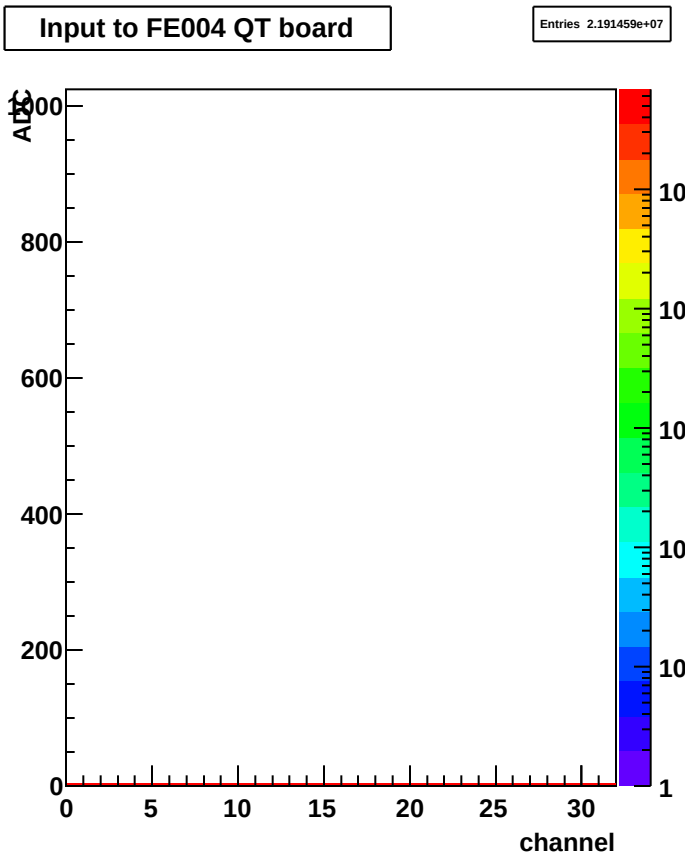

Input to FPD L2 DSM
Entries 1426010
HT bits - simulated
4280
13497
38571
684831
684831
SMALL
LARGE-S
LARGE-N

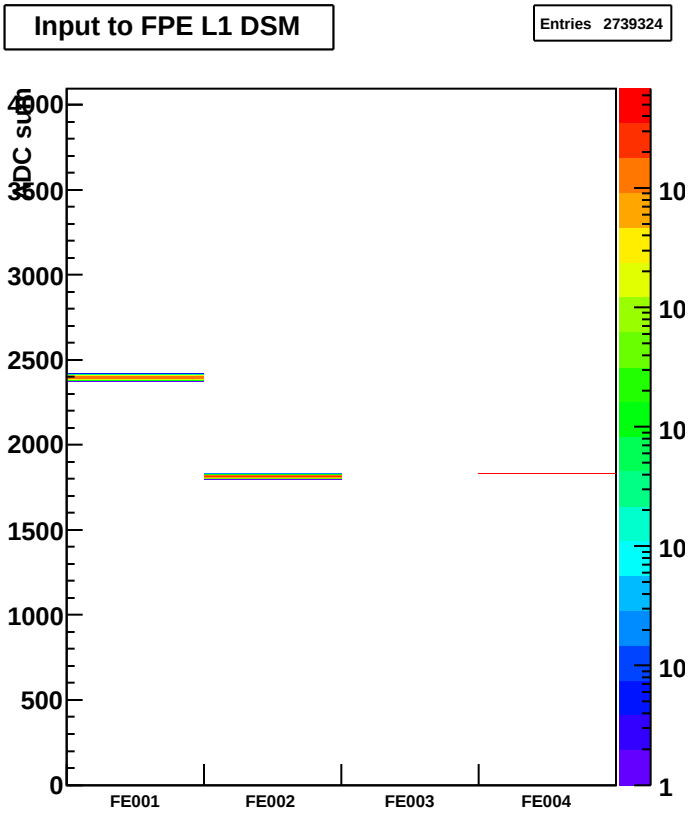

Input to FPD L2 DSM
Entries 4108986
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

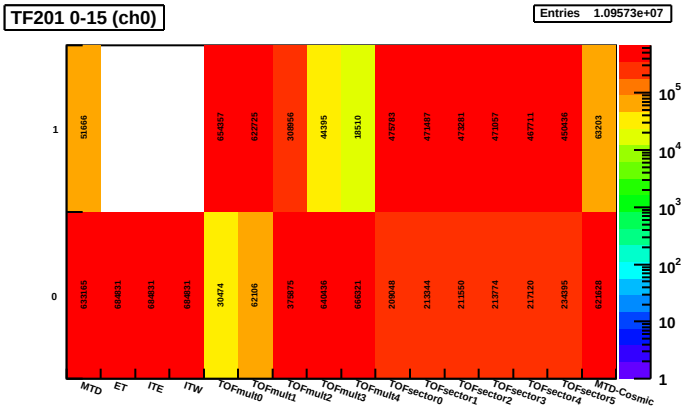

Input to FE001 QT board
Entries 2.191459e+07
ADC
channel

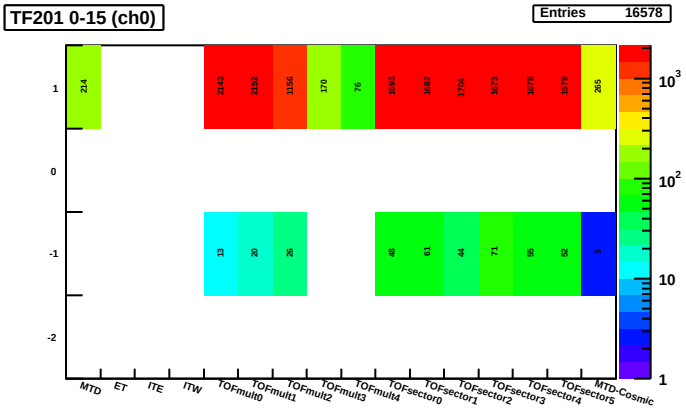

Input to FE002 QT board
Entries 2.191459e+07
ADC
channel

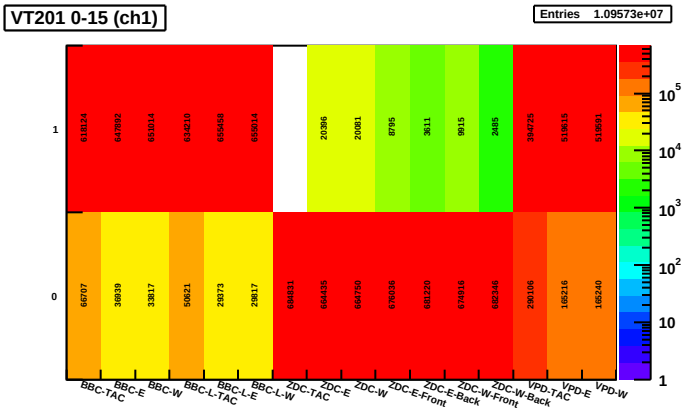

Input to FE003 QT board
Entries 2.191459e+07
ADC
channel

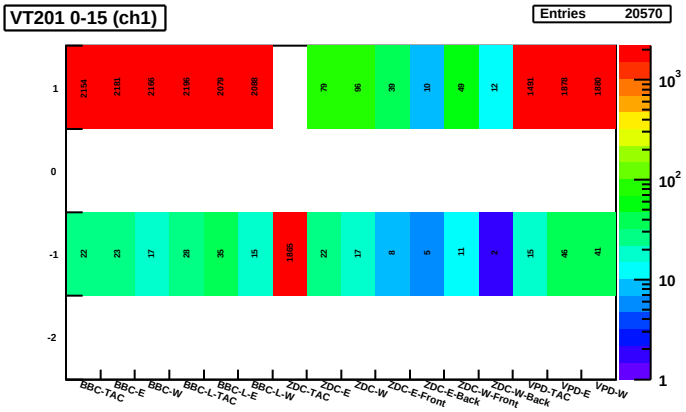

Input to FE004 QT board
Entries 2.191459e+07
ADC
channel

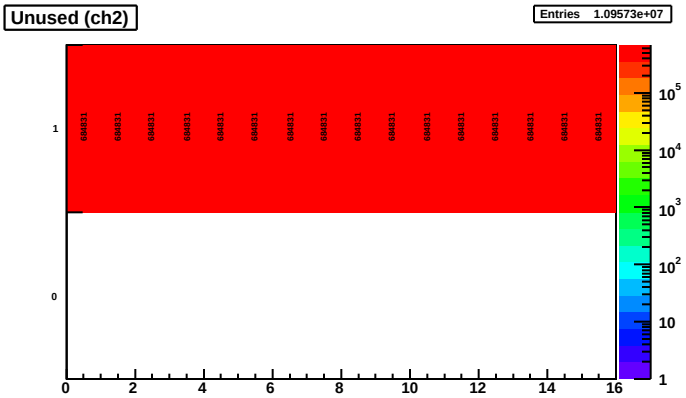

Input to FPE L1 DSM
Entries 2739324
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

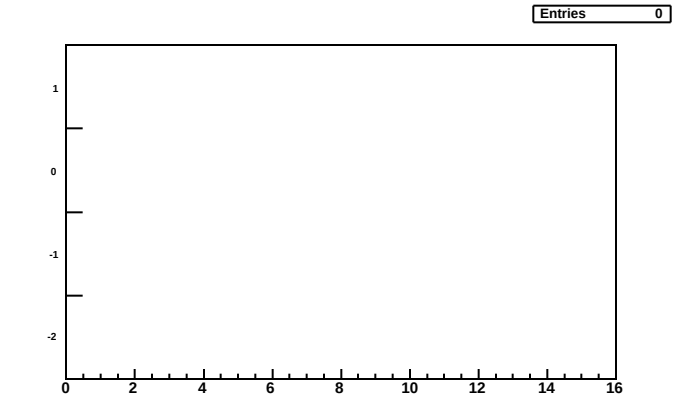

TF201 0-15 (ch0)
Entries 1.09573e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

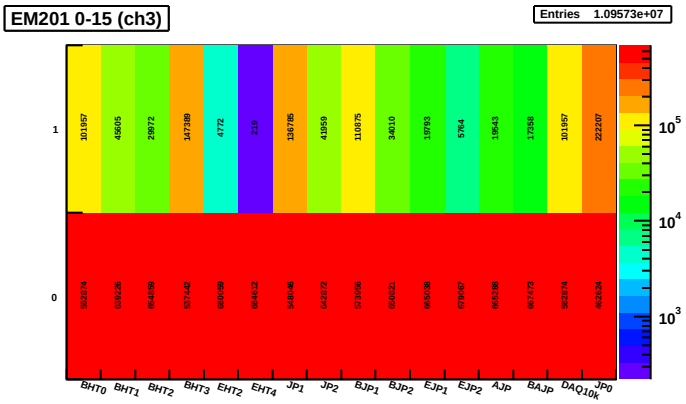

TF201 0-15 (ch0)
Entries 16578
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

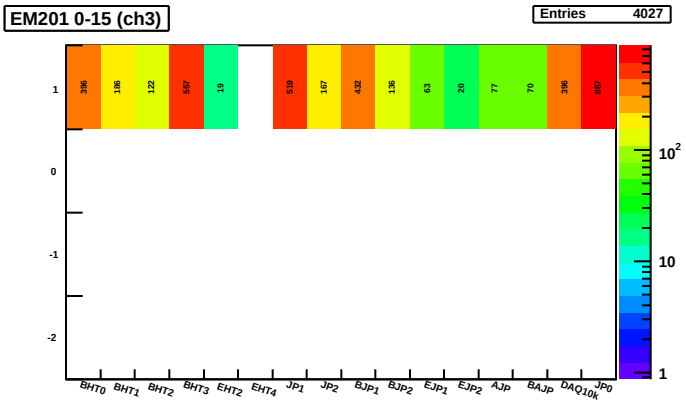

VT201 0-15 (ch1)
Entries 1.09573e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

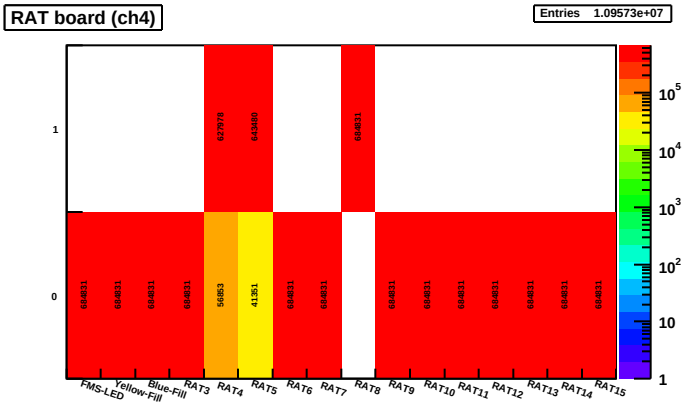

VT201 0-15 (ch1)
Entries 20570
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

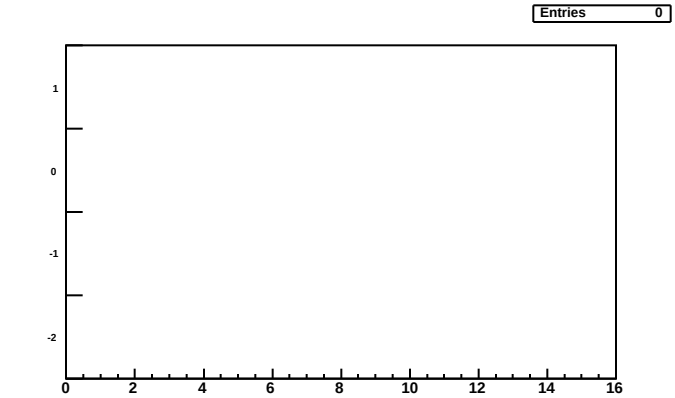

Unused (ch2)
Entries 1.09573e+07

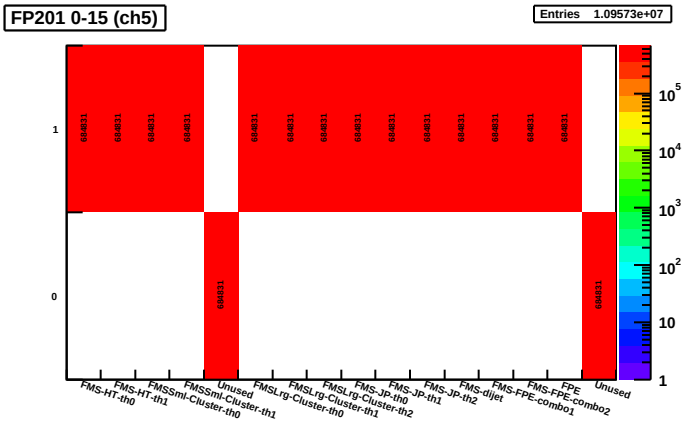

Entries 0

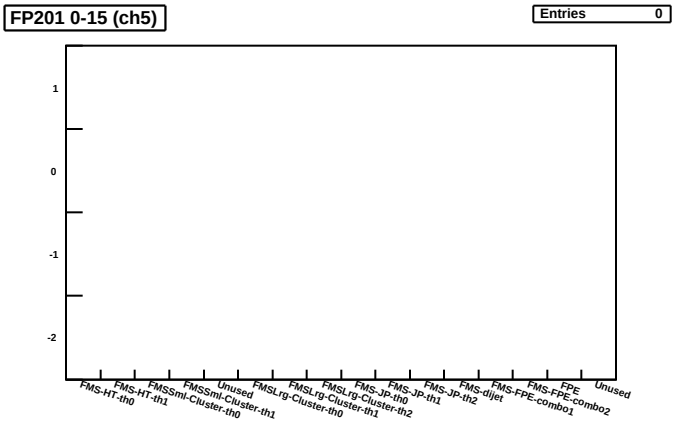

EM201 0-15 (ch3)
Entries 1.09573e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

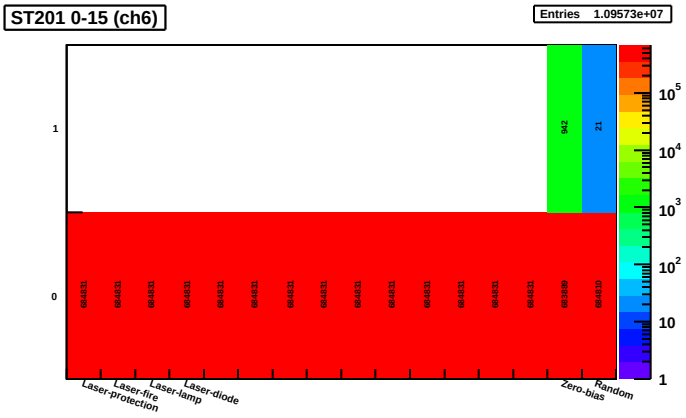

EM201 0-15 (ch3)
Entries 4027
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

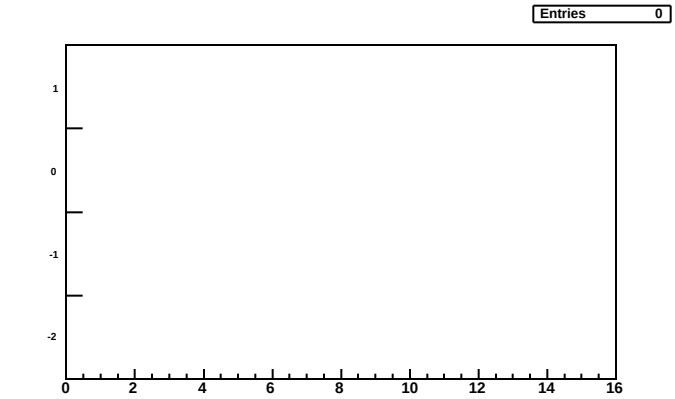

RAT board (ch4)
Entries 1.09573e+07
FMS-LED
Yellow-Fill
Blue-Fill
RAT3
RAT4
RAT5
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15

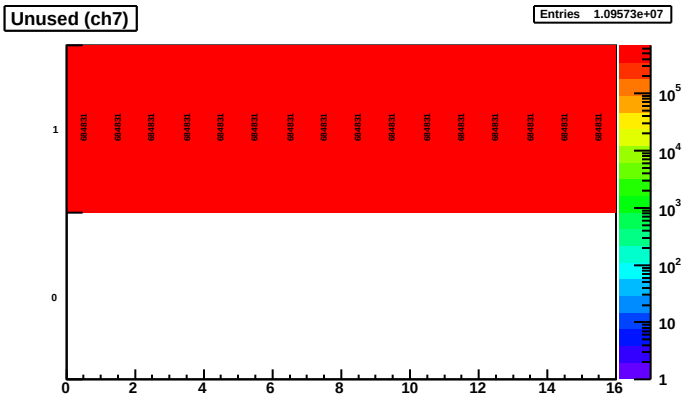

Entries 0

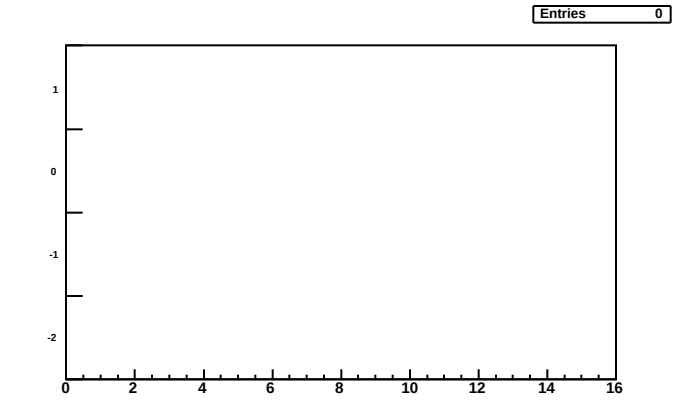

FP201 0-15 (ch5)
Entries 1.09573e+07
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-dijet
FMS-FPE-combo1
FMS-FPE-combo2
FPE
Unused


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


ST201 0-15 (ch6)
Entries 1.09573e+07
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random


Entries 0


Unused (ch7)
Entries 1.09573e+07


Entries 0