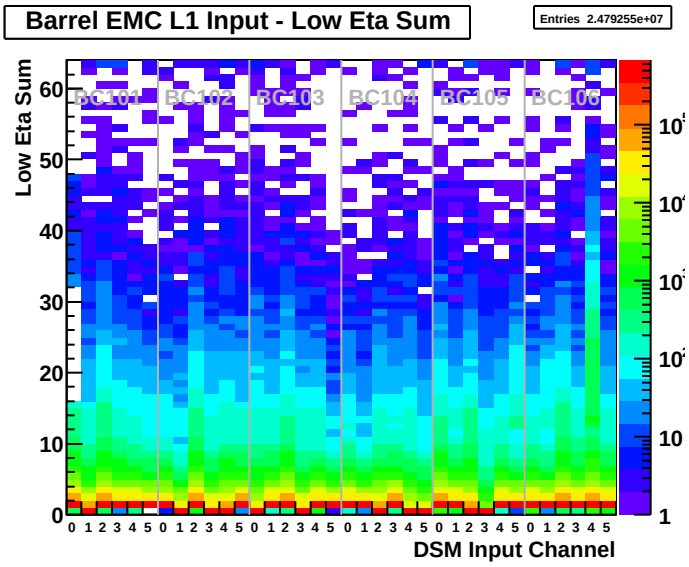
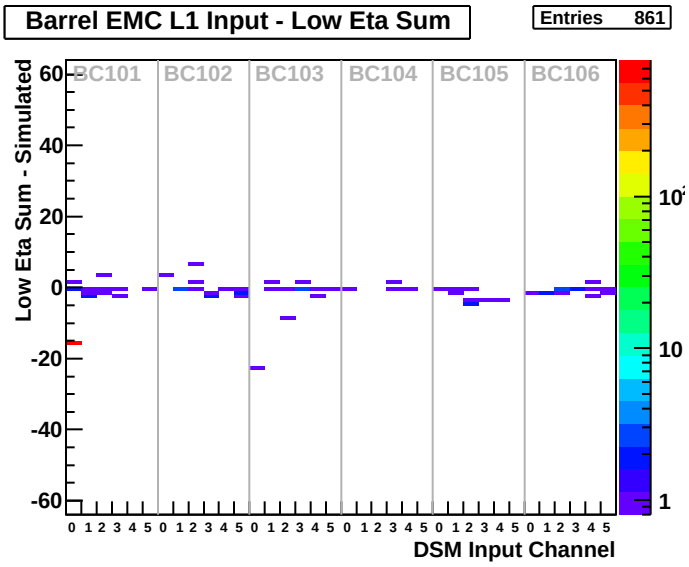
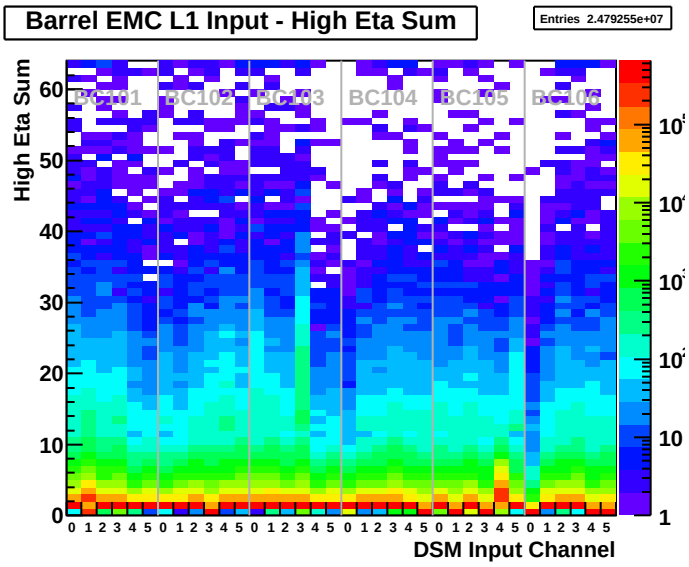
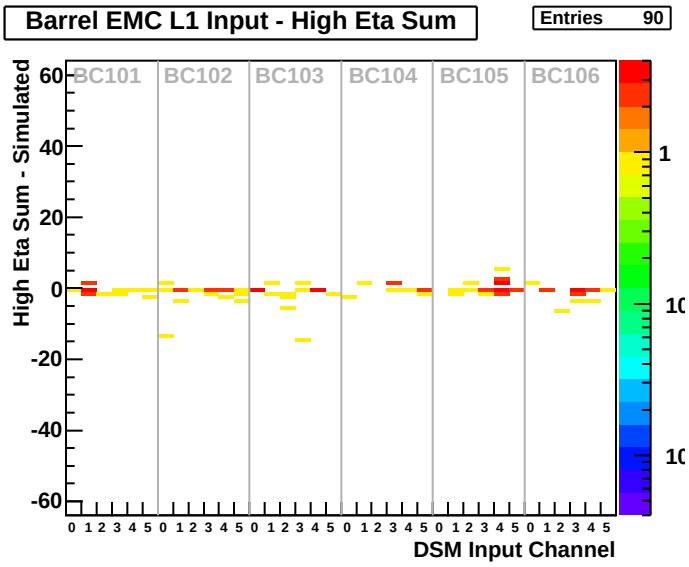
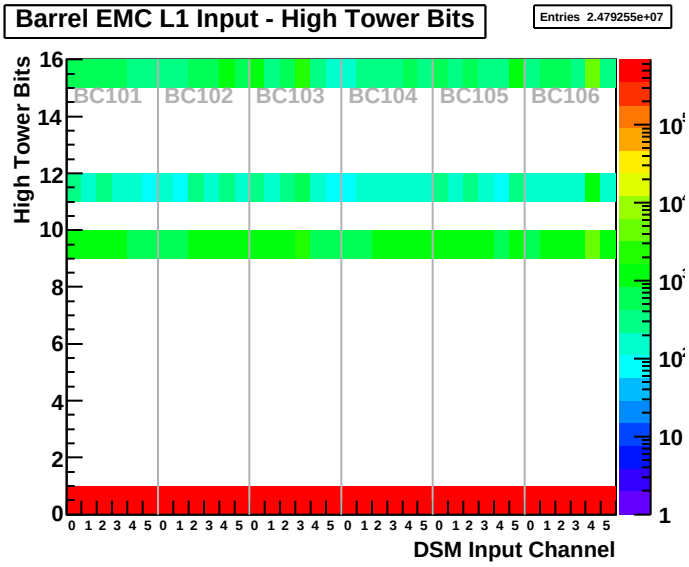
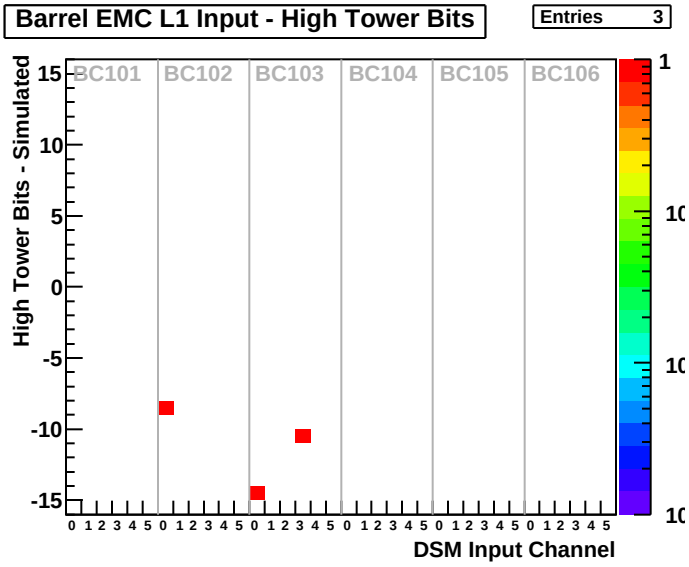

Barrel EMC L1 Input - Low Eta Sum
Entries 2.479255e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

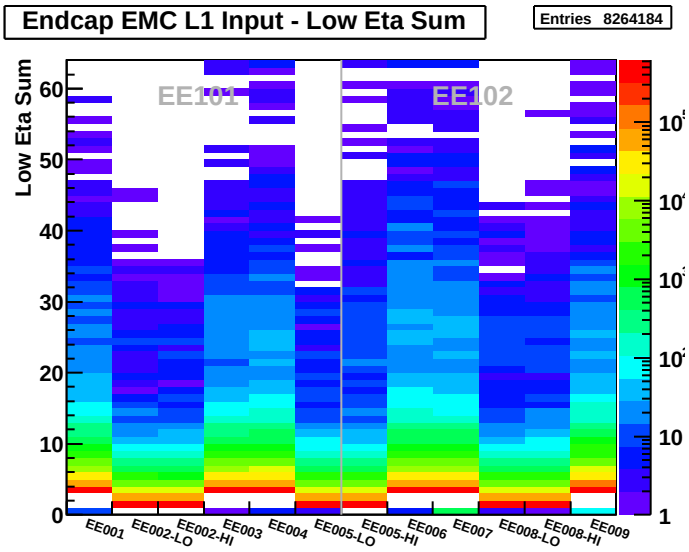

Barrel EMC L1 Input - Low Eta Sum
Entries 861
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

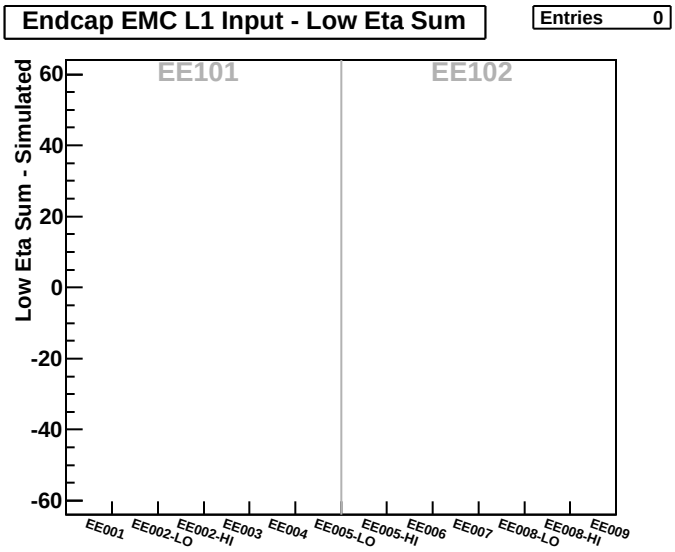

Barrel EMC L1 Input - High Eta Sum
Entries 2.479255e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

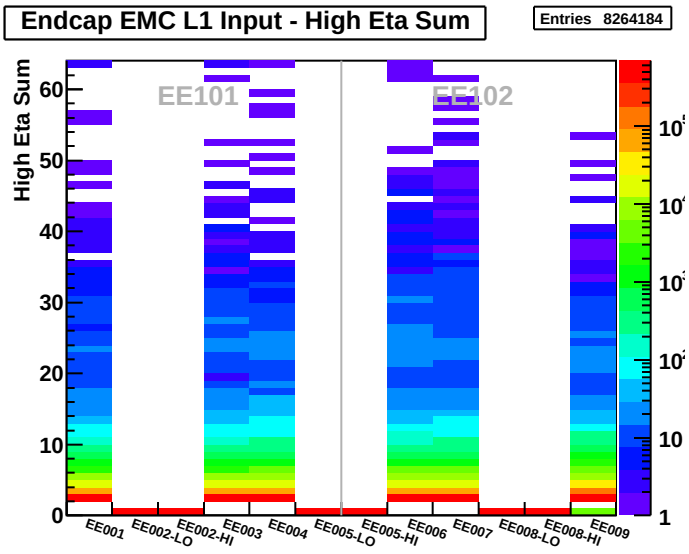

Barrel EMC L1 Input - High Eta Sum
Entries 90
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

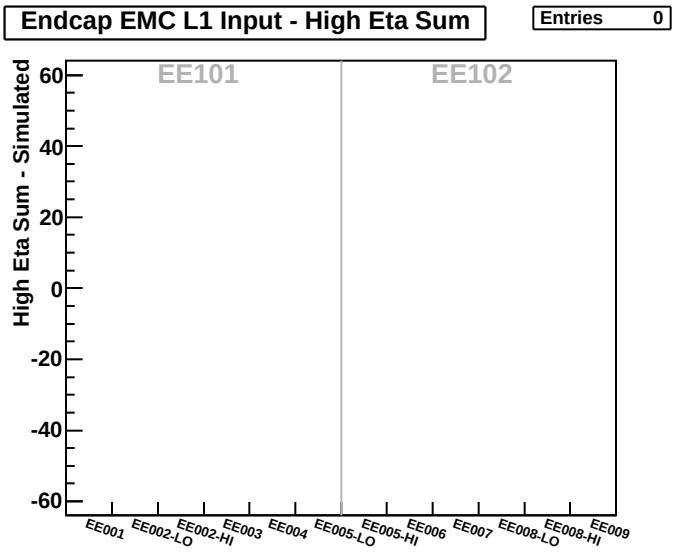

Barrel EMC L1 Input - High Tower Bits
Entries 2.479255e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

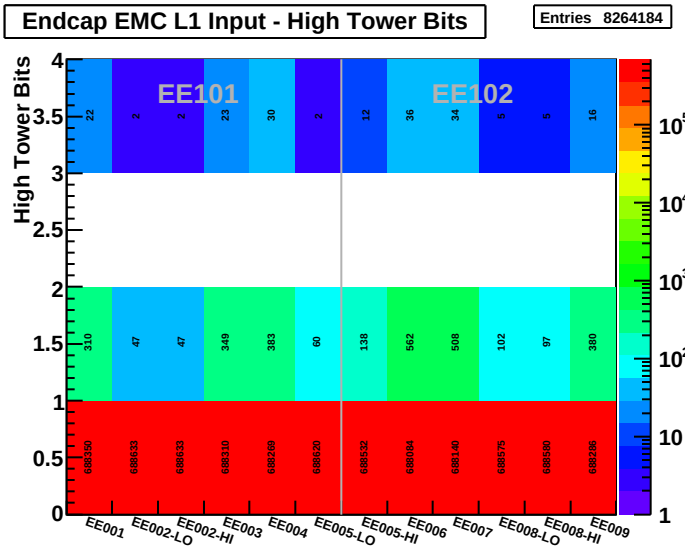

Barrel EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

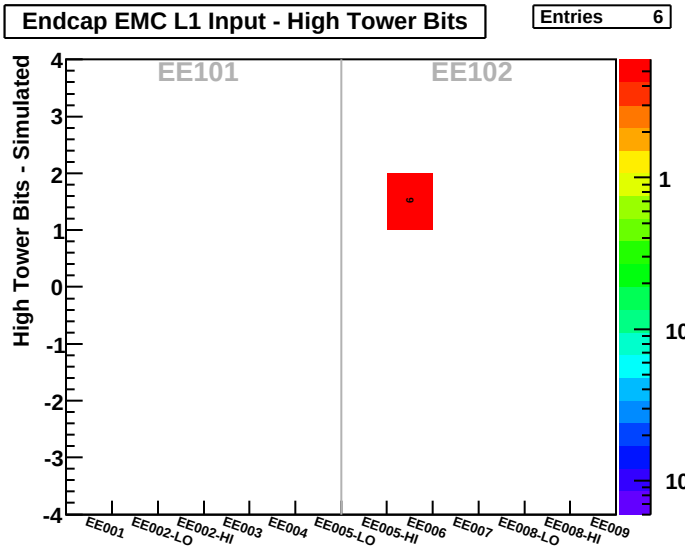

Endcap EMC L1 Input - Low Eta Sum
Entries 8264184
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

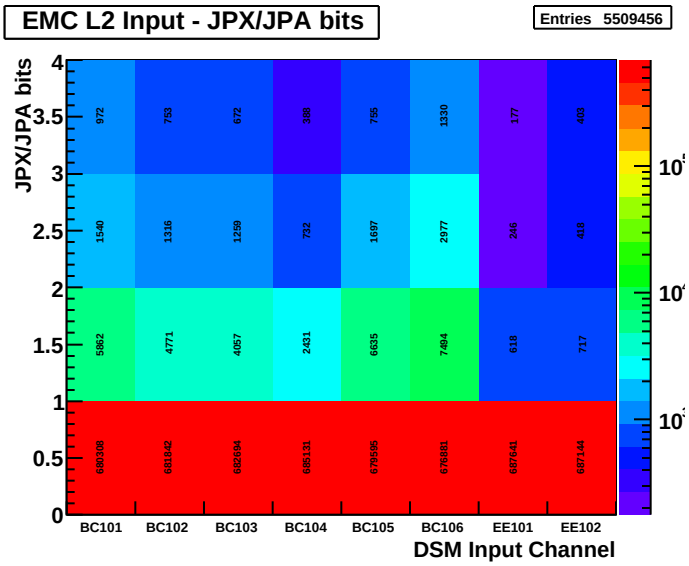

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

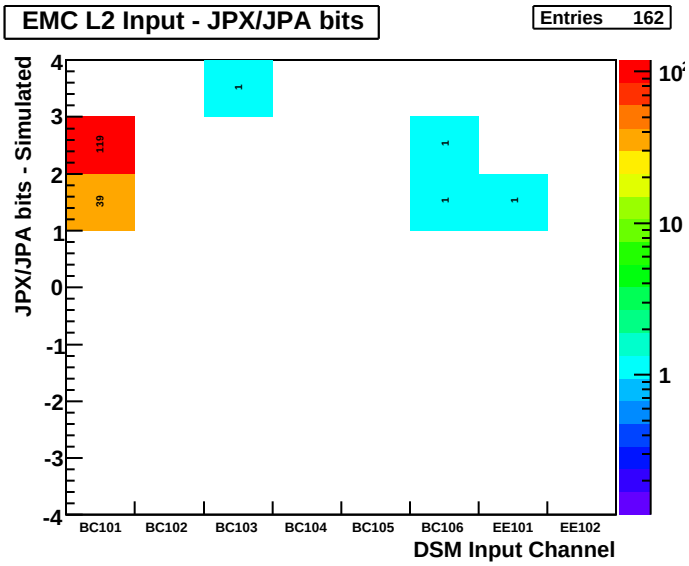

Endcap EMC L1 Input - High Eta Sum
Entries 8264184
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

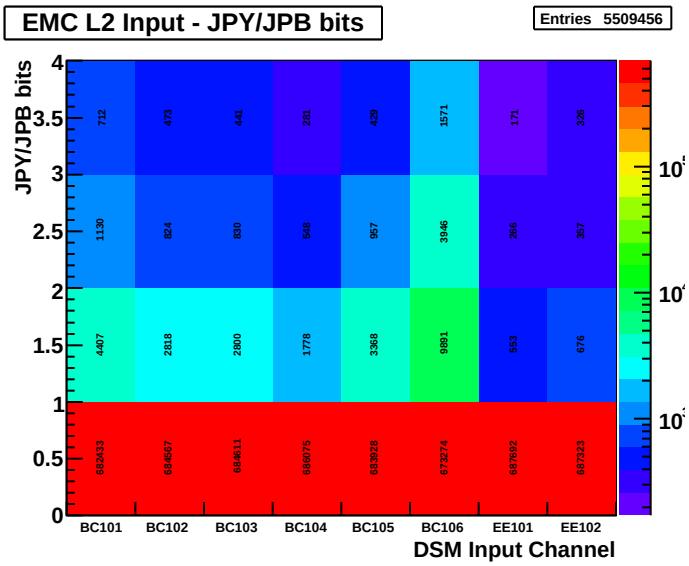

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

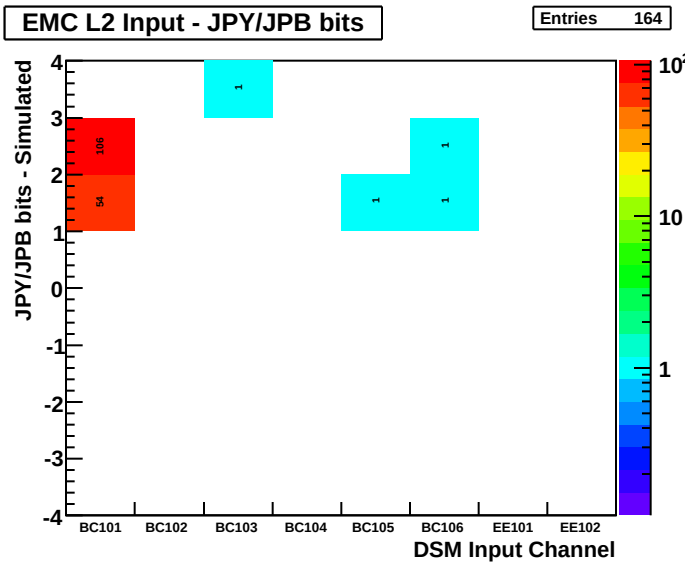

Endcap EMC L1 Input - High Tower Bits
Entries 8264184
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

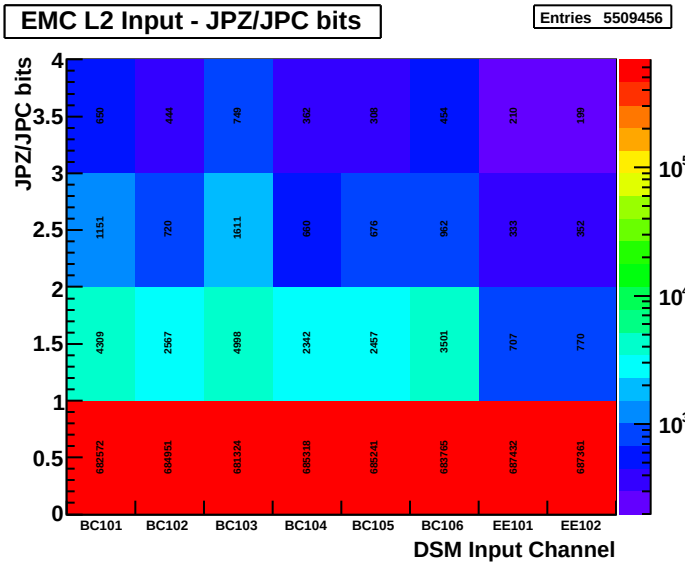

Endcap EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

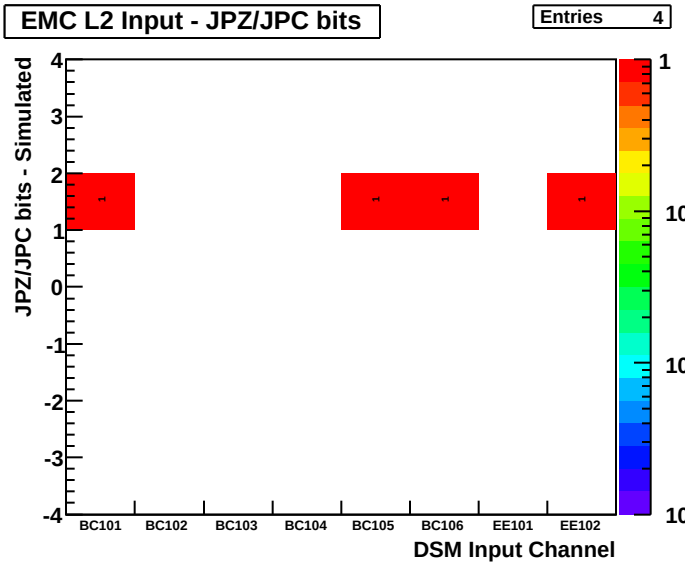

EMC L2 Input - JPX/JPA bits
Entries 5509456
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
972 753 672 388 755 1330 177 403
1540 1316 1299 732 1697 2977 246 418
5862 4771 4057 2431 6635 7494 618 717
680308 681842 682694 685131 679595 676881 687641 687144

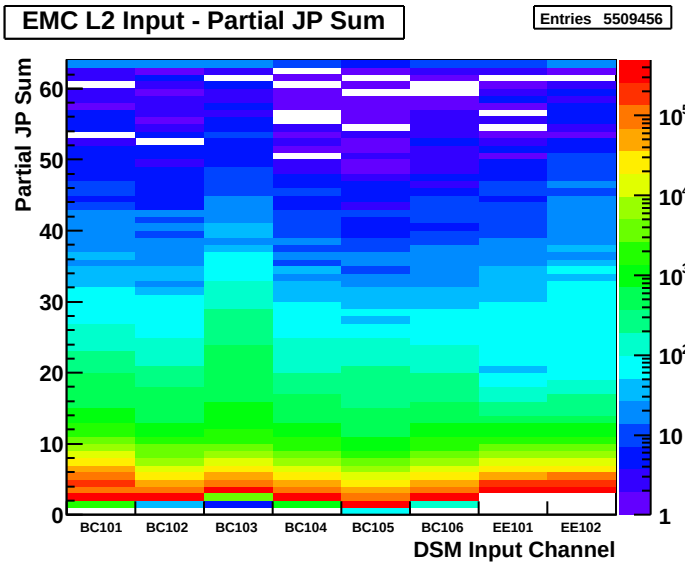

EMC L2 Input - JPX/JPA bits
Entries 162
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
119
39
1
1
1
1

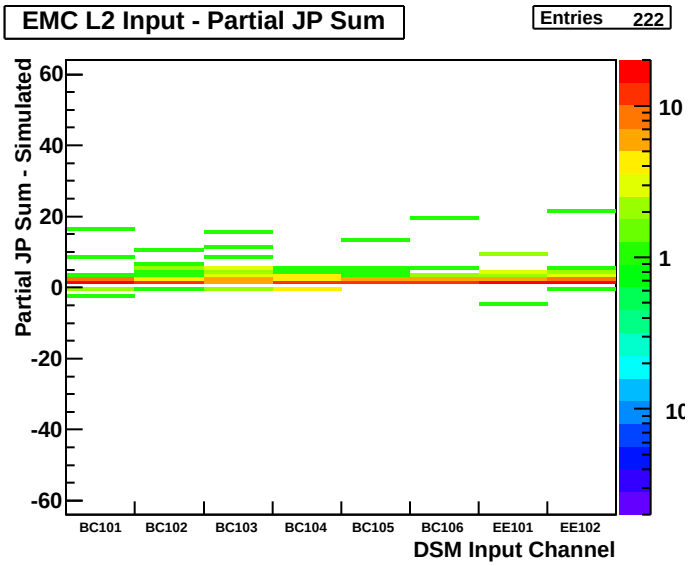

EMC L2 Input - JPY/JPB bits
Entries 5509456
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
712 473 441 281 429 1571 171 326
1130 824 830 548 957 3946 266 357
4407 2818 2900 1778 3368 9891 553 676
682433 684567 684611 686075 683928 673274 687692 687323

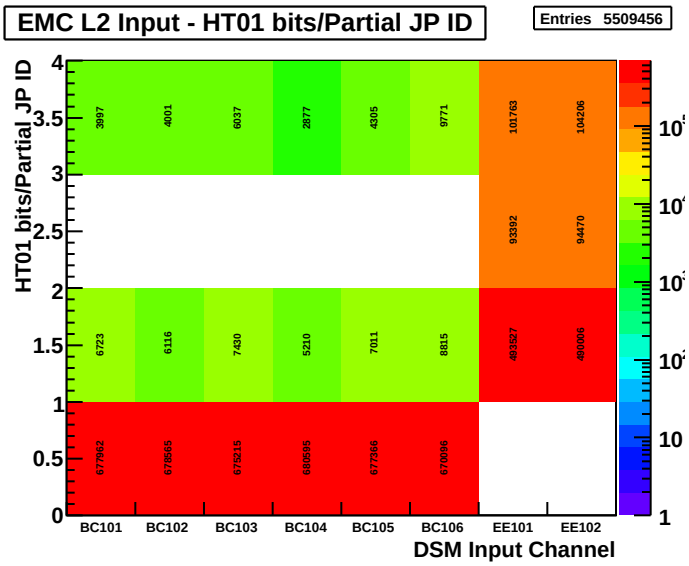

EMC L2 Input - JPY/JPB bits
Entries 164
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
106
54
1
1
1
1

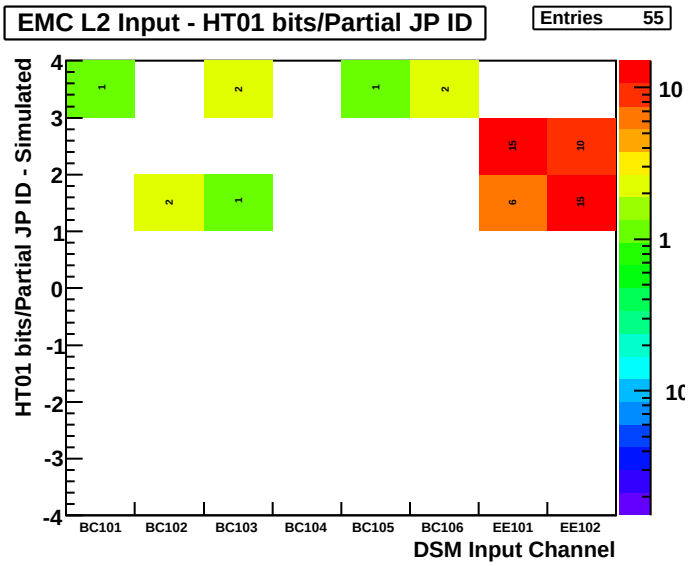

EMC L2 Input - JPZ/JPC bits
Entries 5509456
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
650 444 749 362 308 454 210 199
1151 720 1611 660 676 962 333 352
4309 2567 4998 2342 2457 3501 707 770
682572 684951 681324 685318 685241 683765 687432 687361

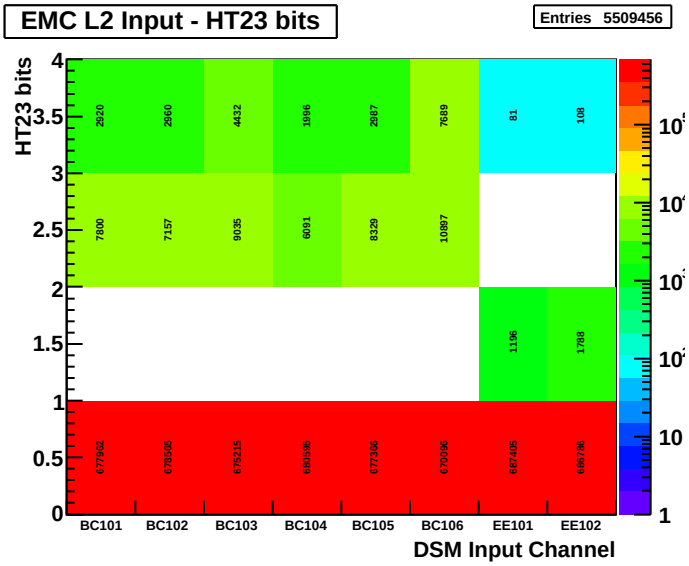

EMC L2 Input - JPZ/JPC bits
Entries 4
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
1
1
1

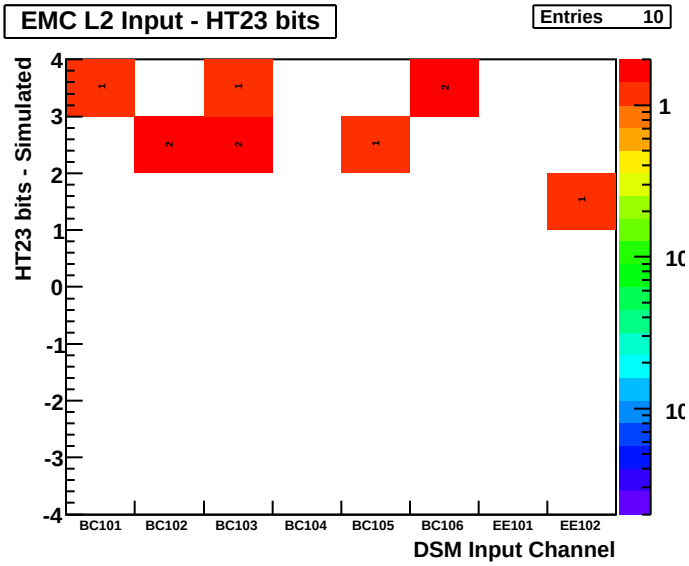

EMC L2 Input - Partial JP Sum
Entries 5509456
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

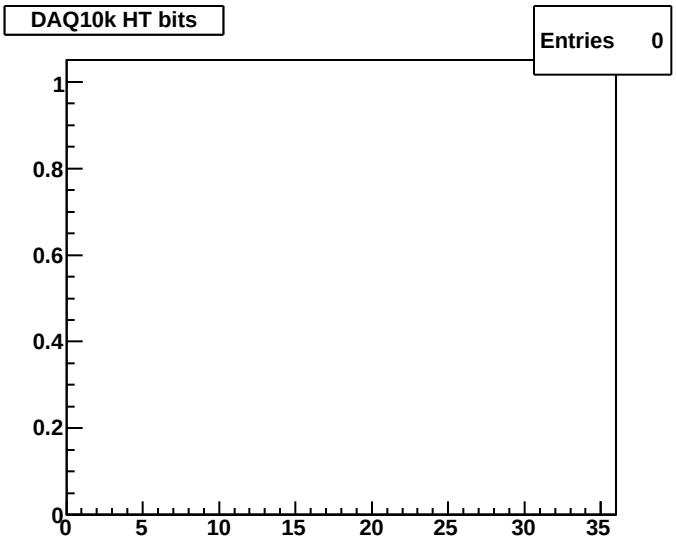

EMC L2 Input - Partial JP Sum
Entries 222
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

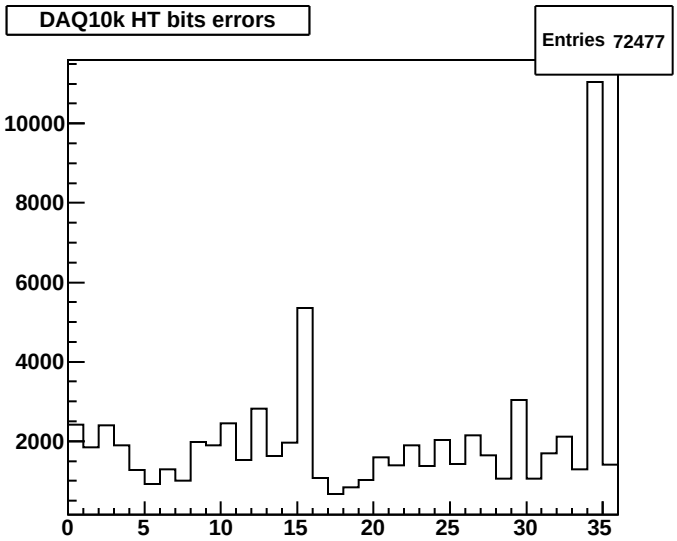

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5509456
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

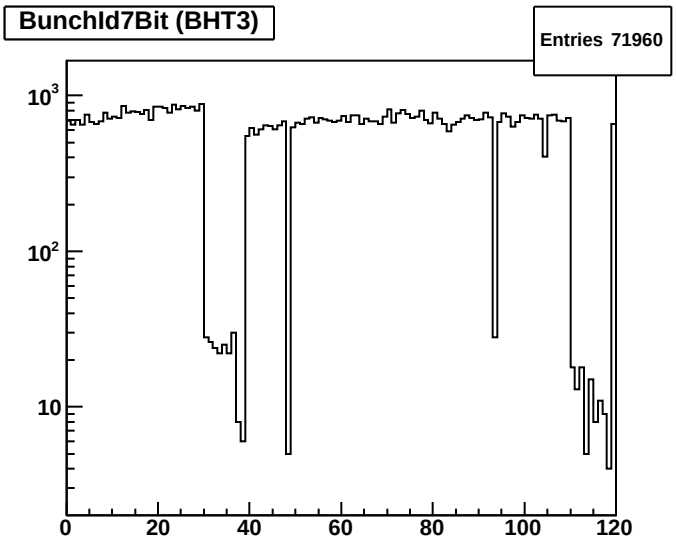

EMC L2 Input - HT01 bits/Partial JP ID
Entries 55
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

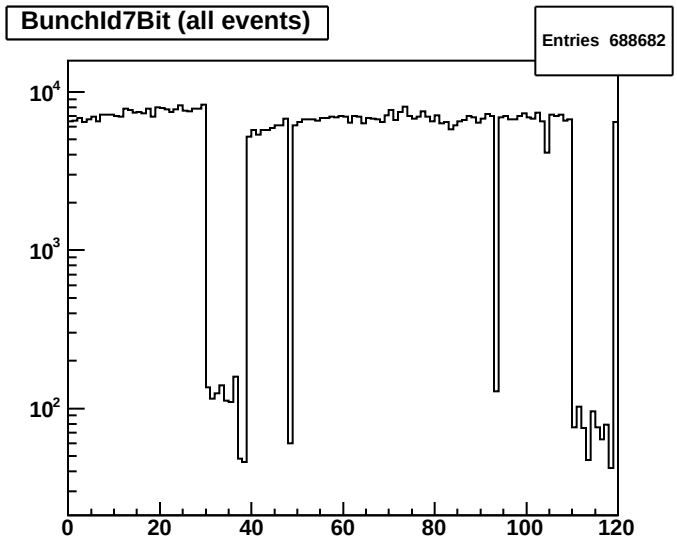

EMC L2 Input - HT23 bits
Entries 5509456
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

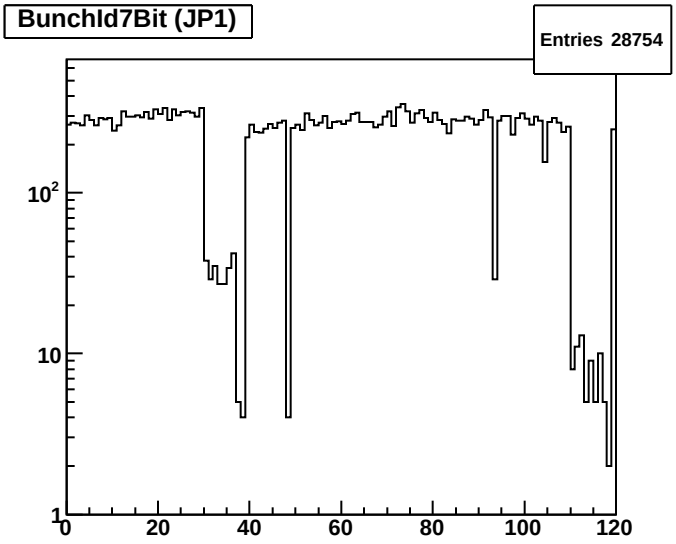

EMC L2 Input - HT23 bits
Entries 10
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

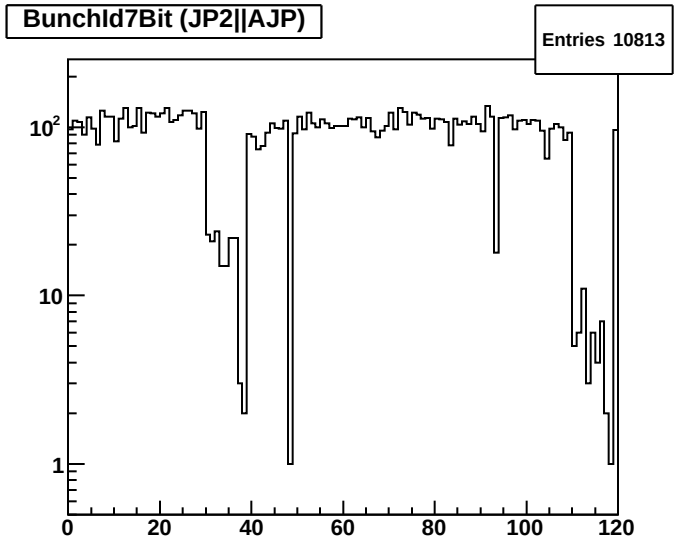

DAQ10k HT bits
Entries 0

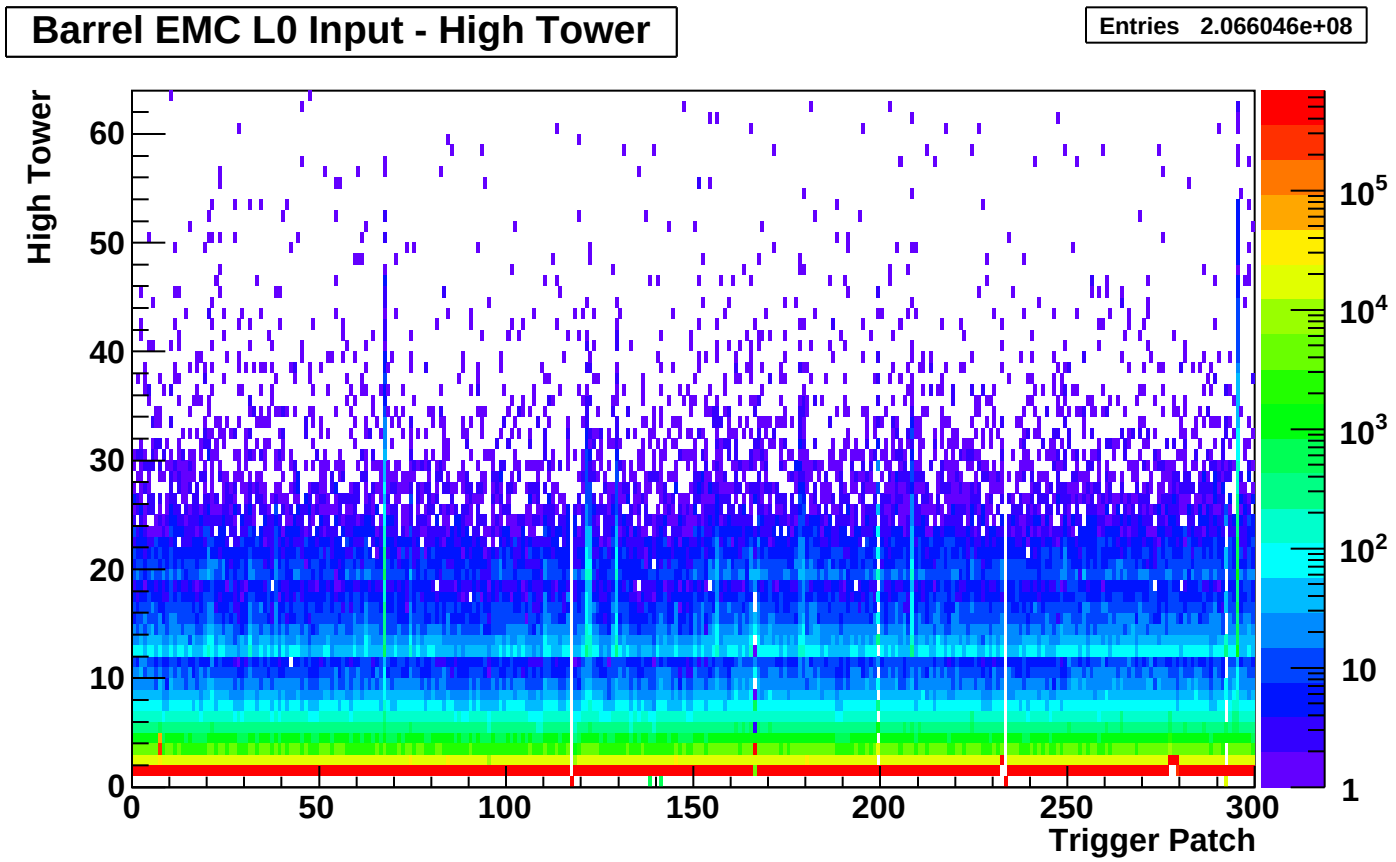

DAQ10k HT bits errors
Entries 72477

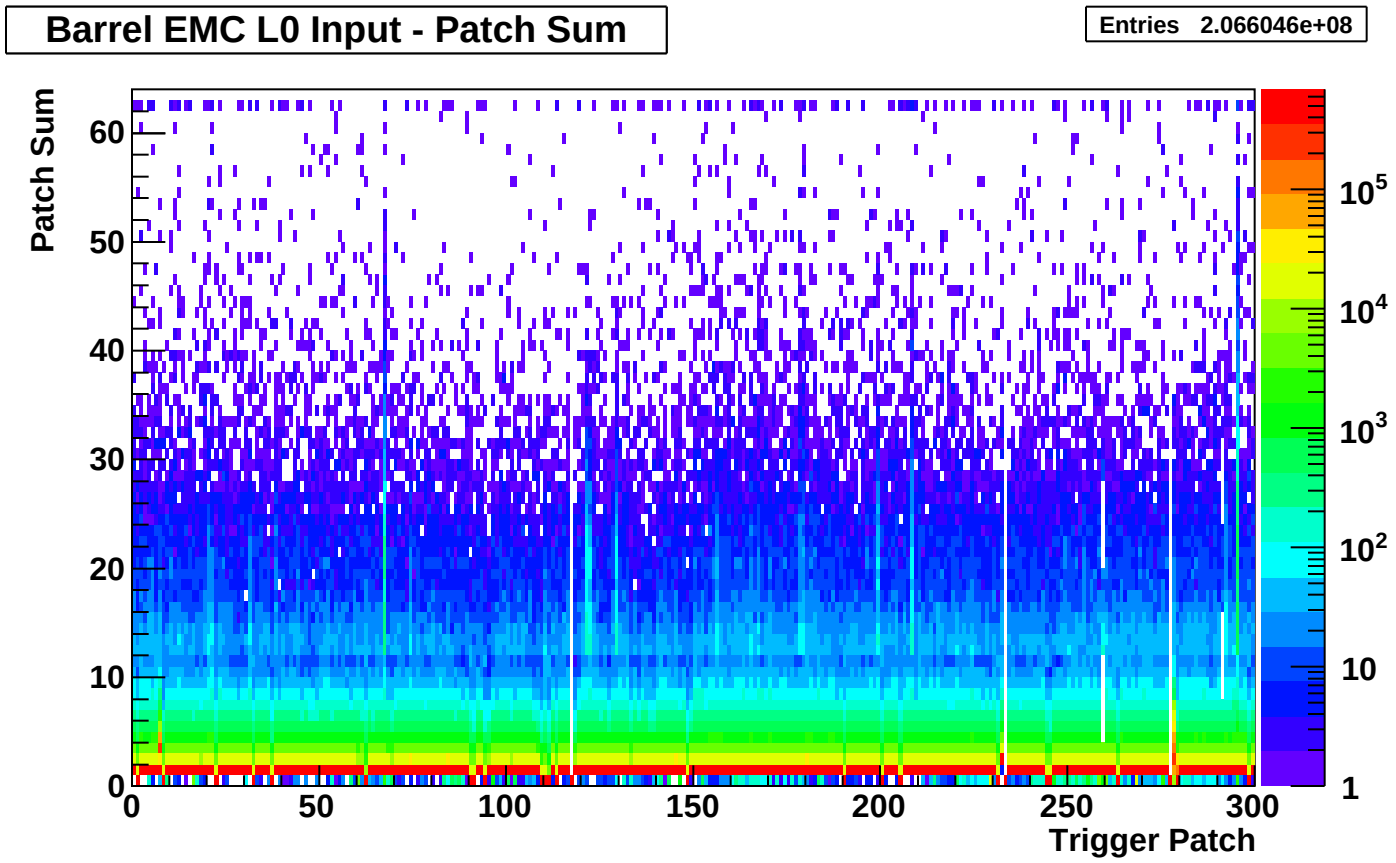

BunchId7Bit (BHT3)
Entries 71960

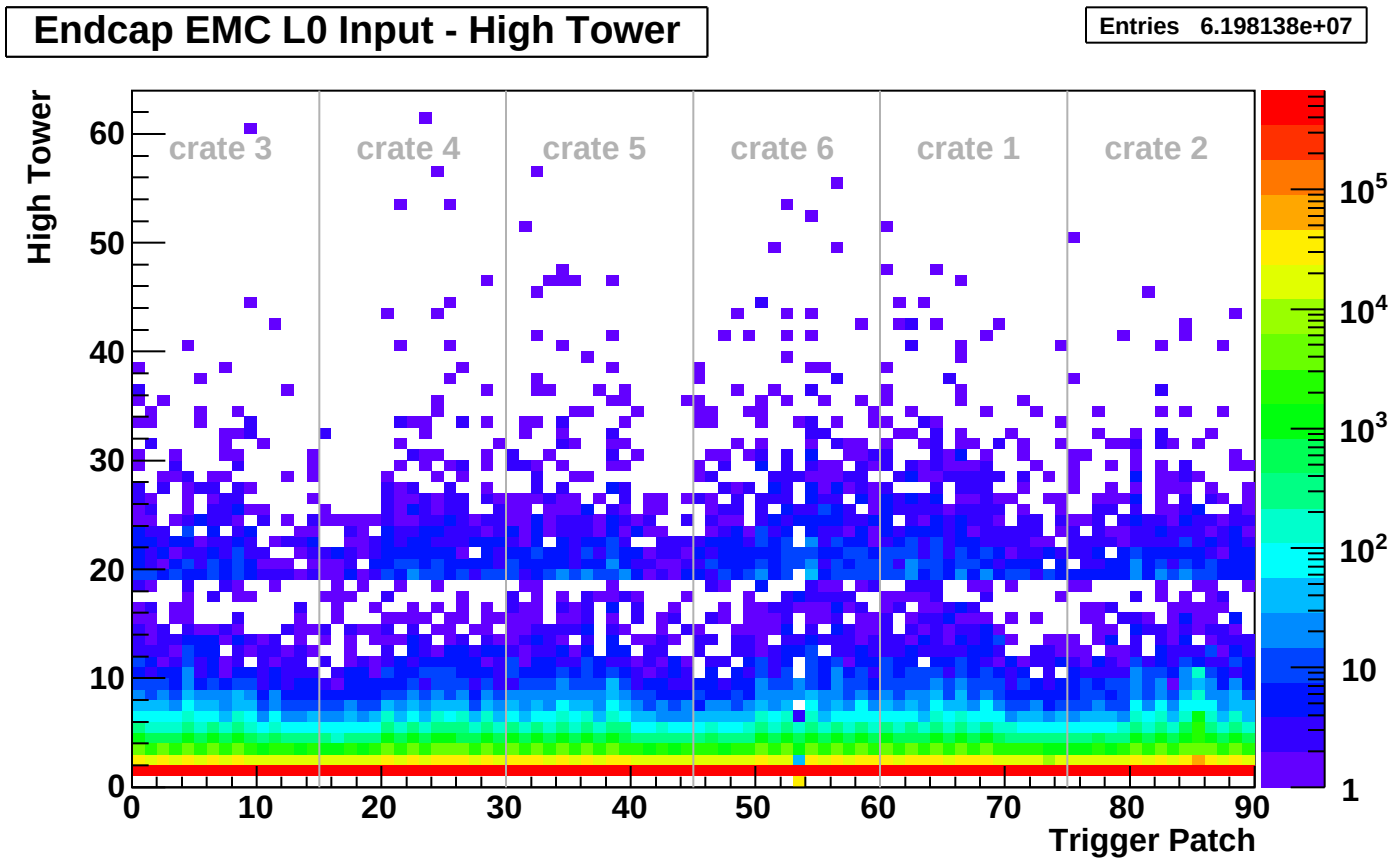

BunchId7Bit (all events)
Entries 688682

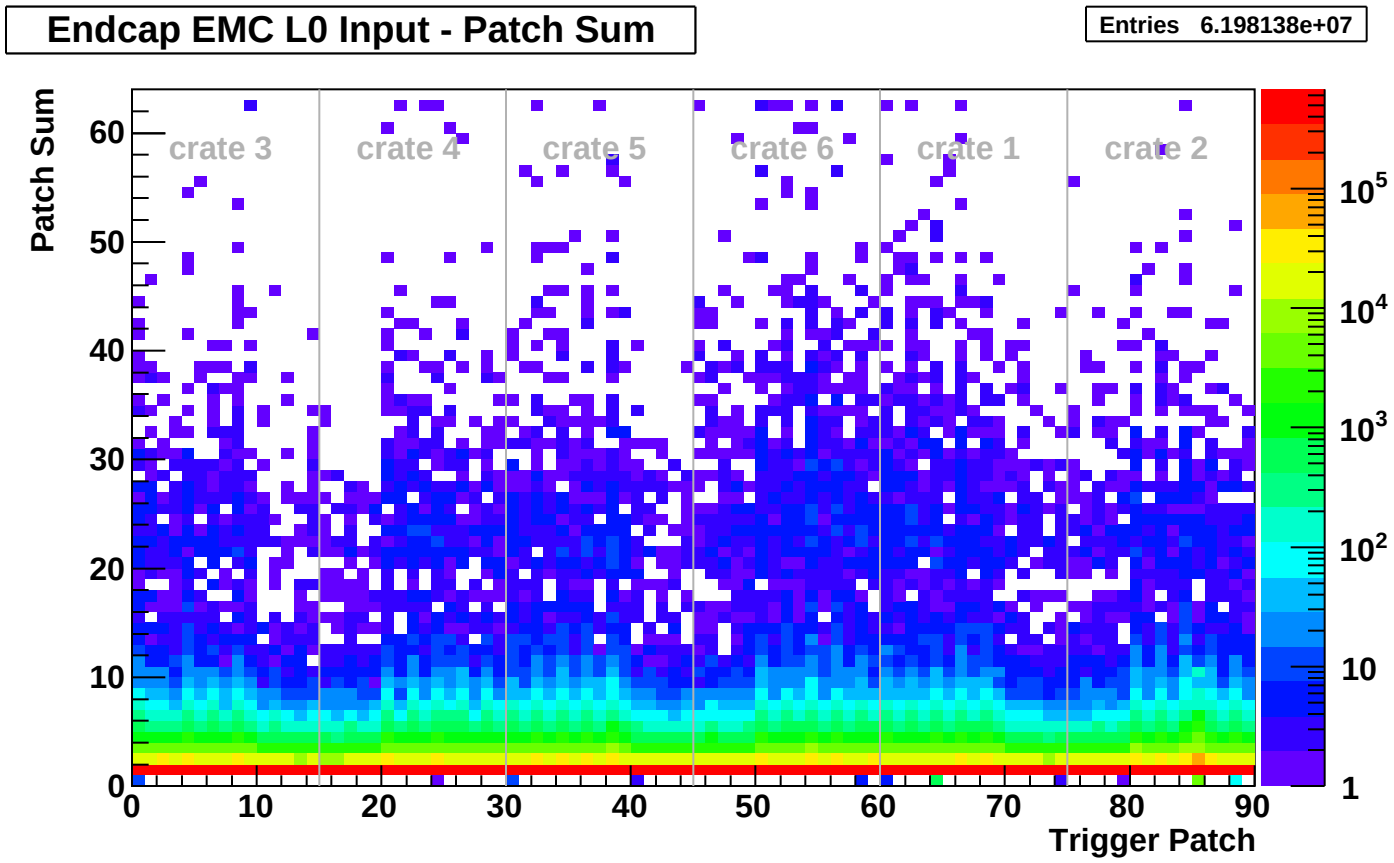

BunchId7Bit (JP1)
Entries 28754

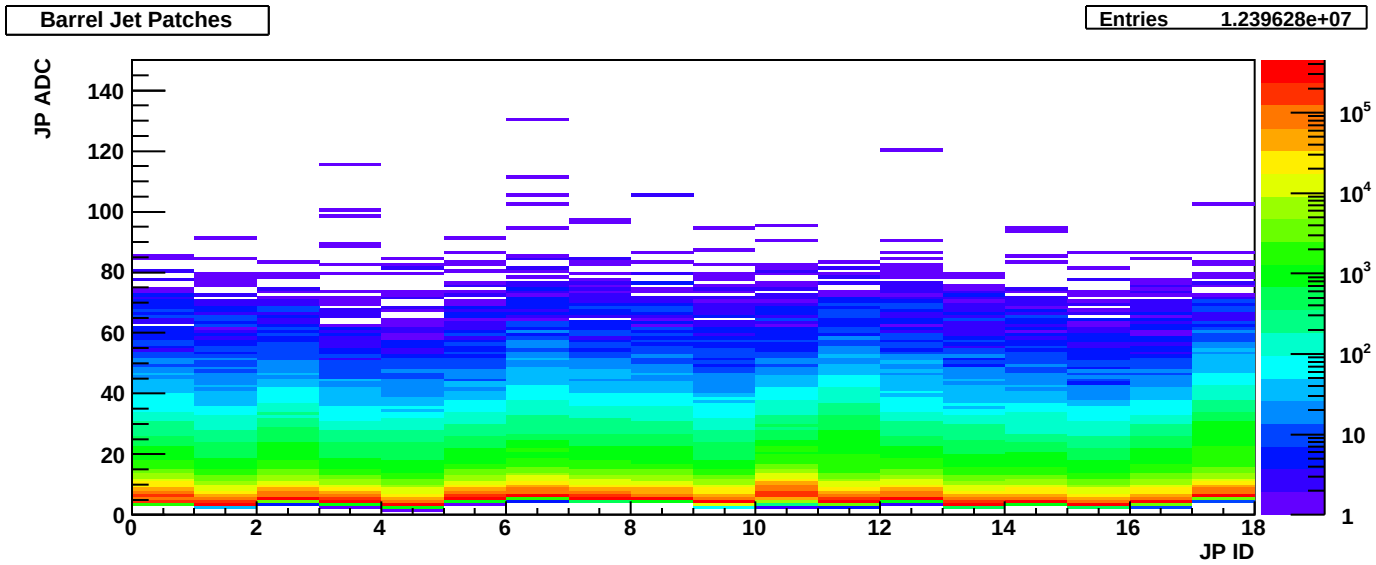

BunchId7Bit (JP2||AJP)
Entries 10813

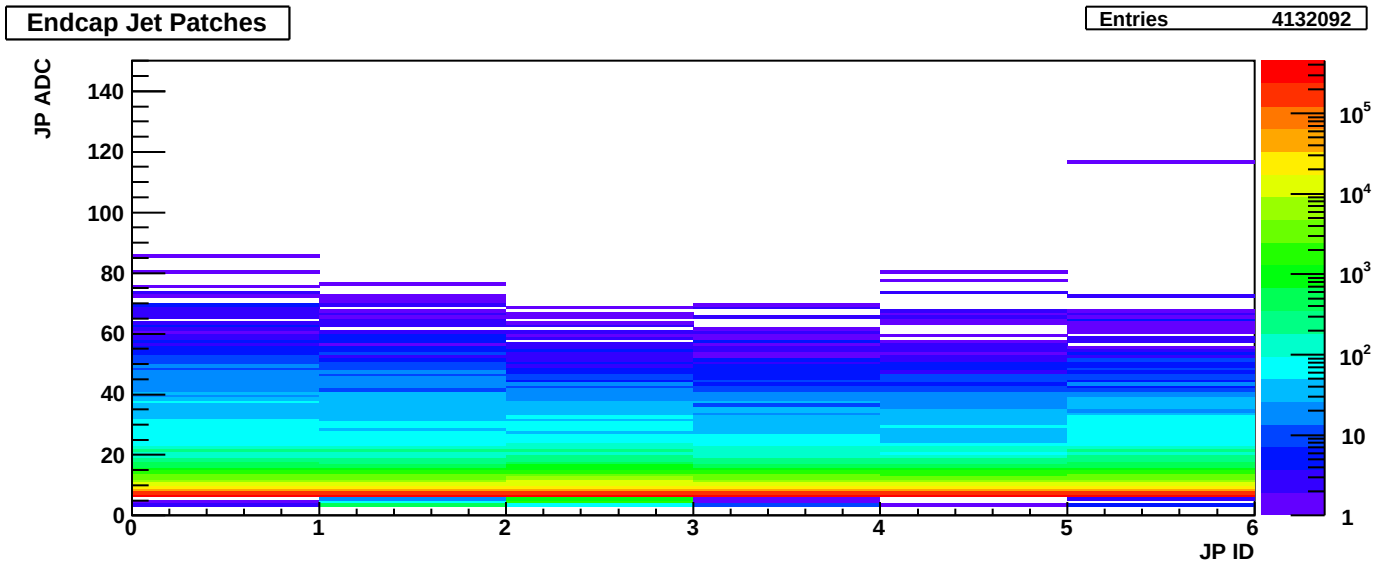

Barrel EMC L0 Input - High Tower
Entries 2.066046e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

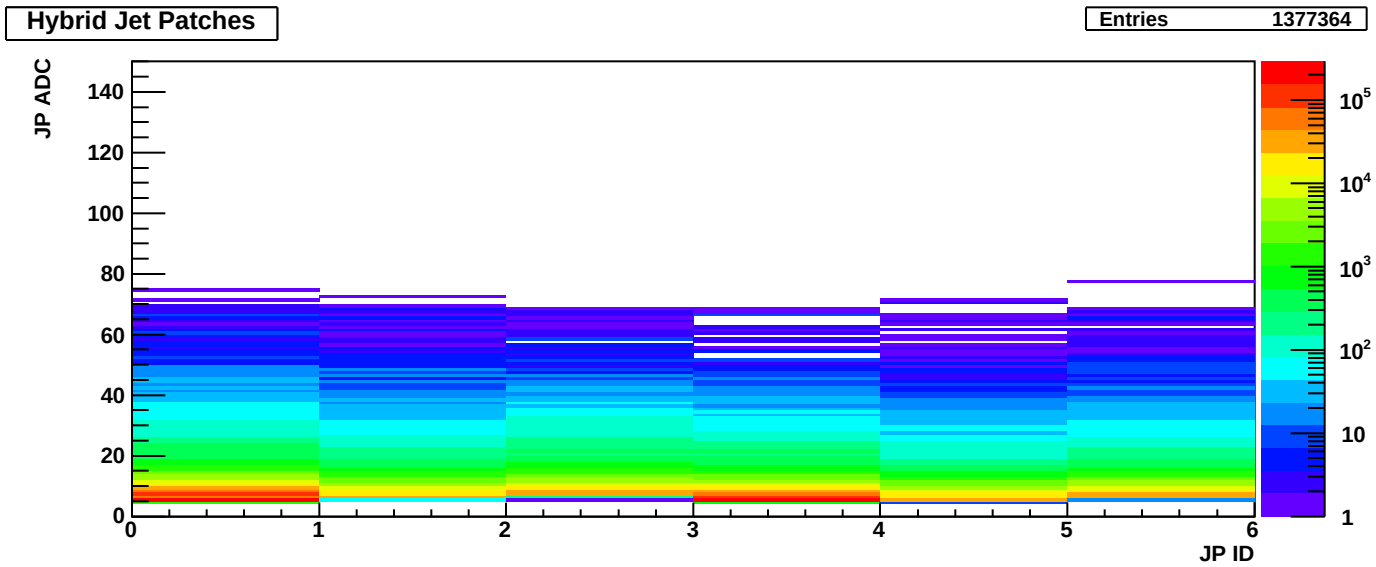

Barrel EMC L0 Input - Patch Sum
Entries 2.066046e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

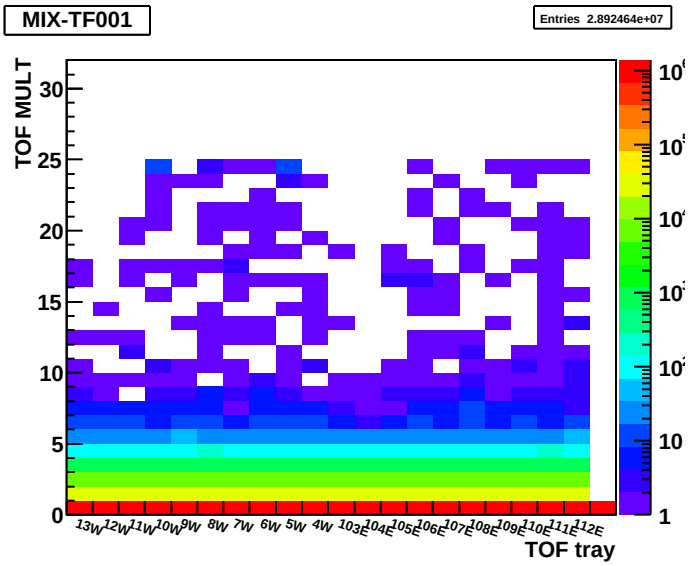

Endcap EMC L0 Input - High Tower
Entries 6.198138e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

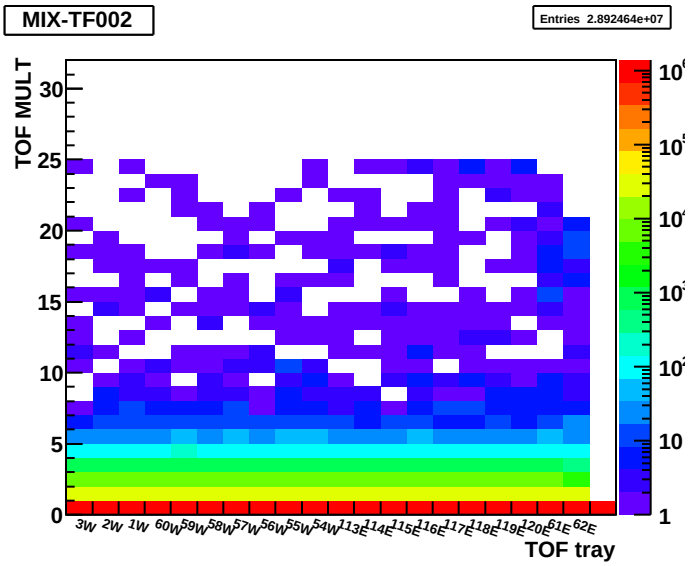

Endcap EMC L0 Input - Patch Sum
Entries 6.198138e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

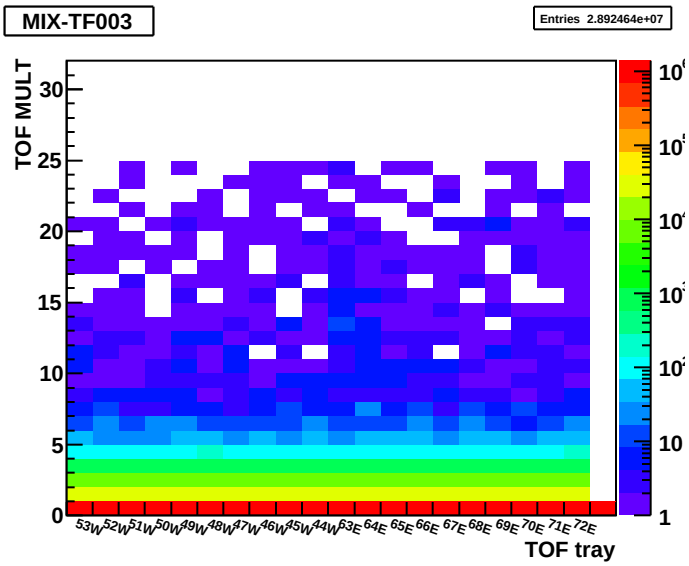

Barrel Jet Patches
Entries 1.239628e+07
JP ADC
JP ID

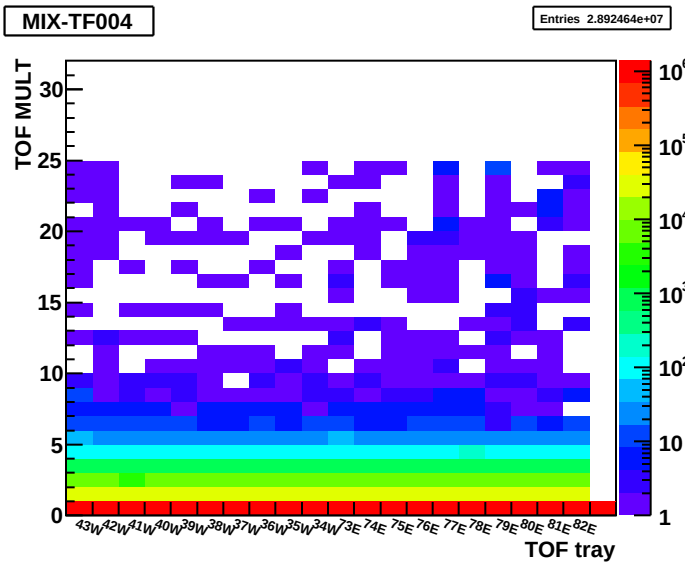

Endcap Jet Patches
Entries 4132092
JP ADC
JP ID

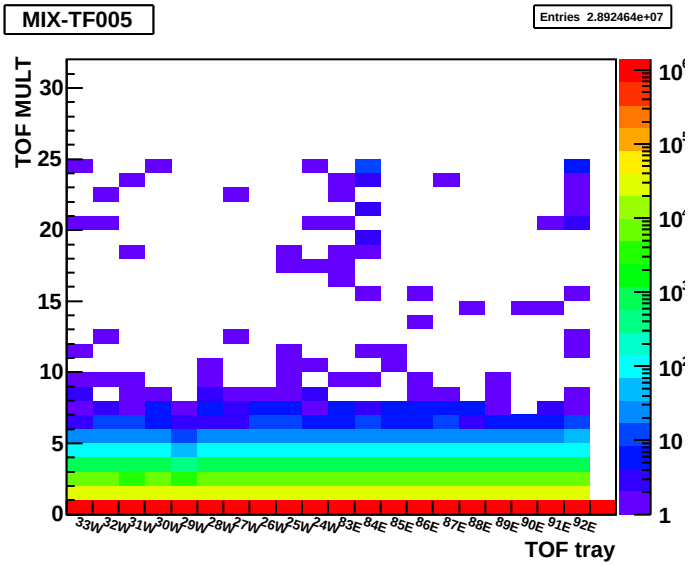

Hybrid Jet Patches
Entries 1377364
JP ADC
JP ID

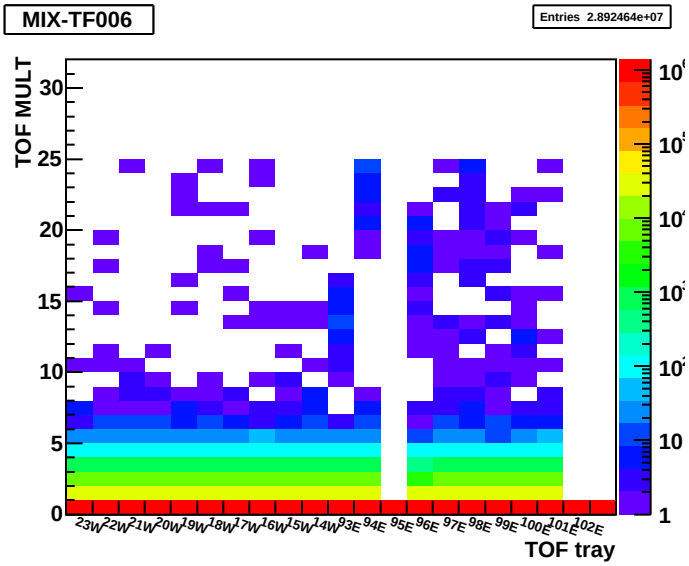

MIX-TF001
Entries 2.892464e+07
TOF MULT
TOF tray

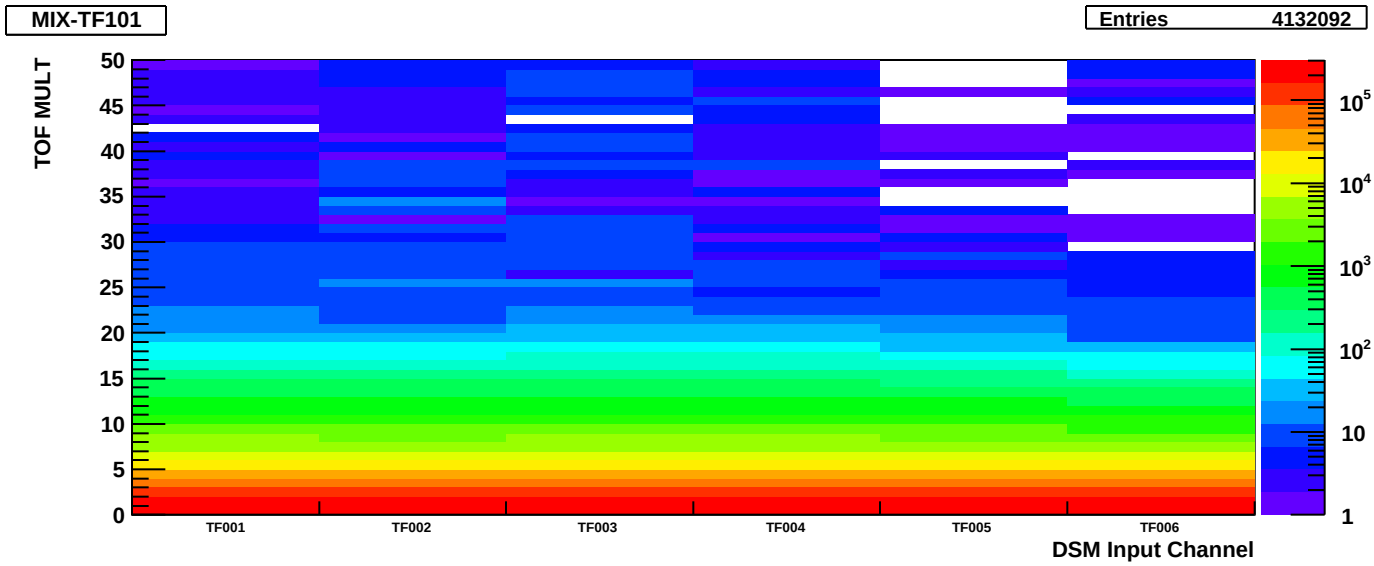

MIX-TF002
Entries 2.892464e+07
TOF MULT
TOF tray

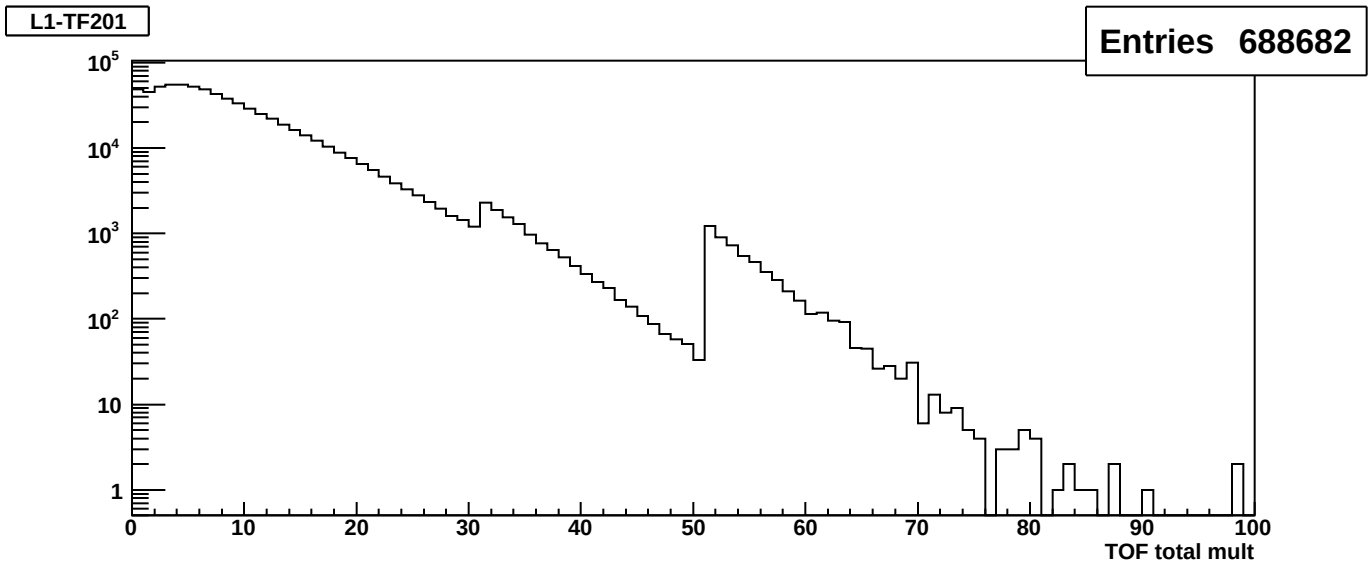

MIX-TF003
Entries 2.892464e+07
TOF MULT
TOF tray

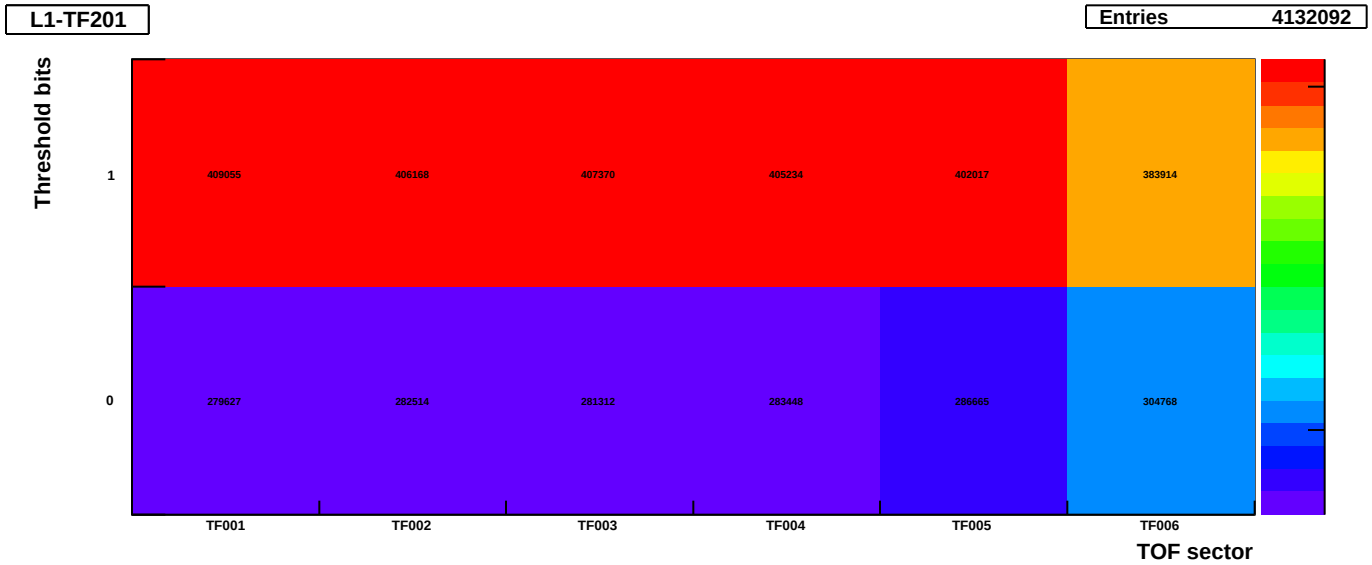

MIX-TF004
Entries 2.892464e+07
TOF MULT
TOF tray

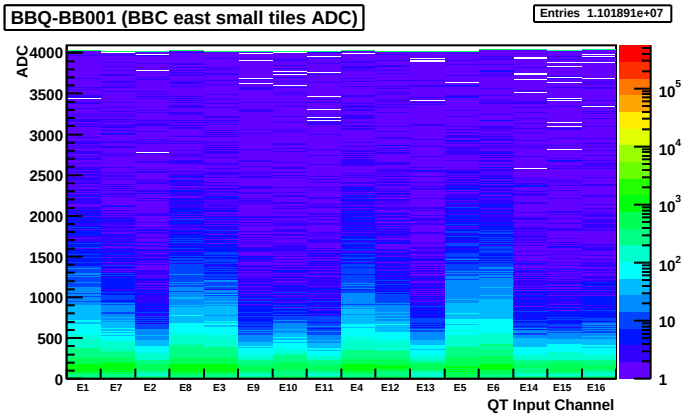

MIX-TF005
Entries 2.892464e+07
TOF MULT
TOF tray

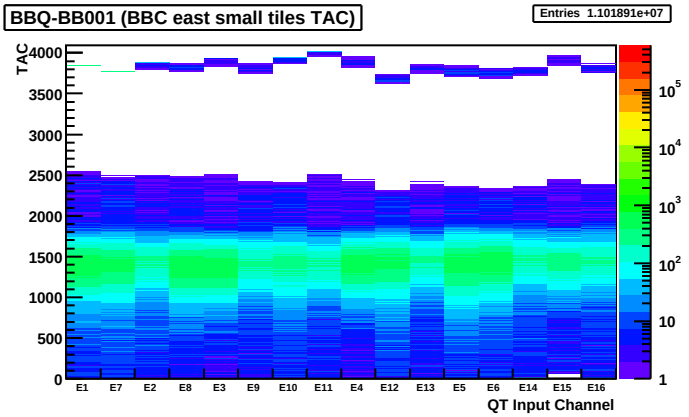

MIX-TF006
Entries 2.892464e+07
TOF MULT
TOF tray

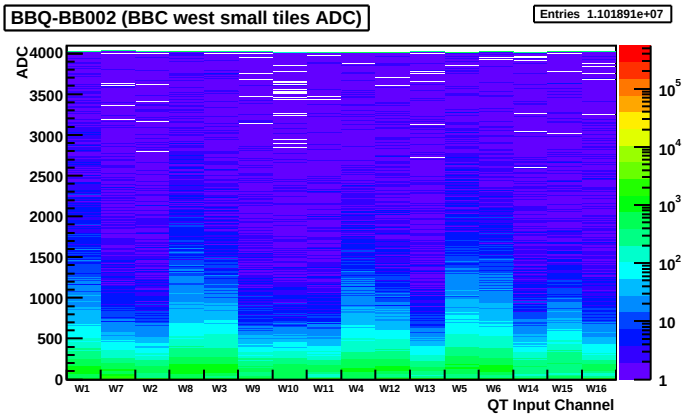

MIX-TF101
Entries 4132092
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

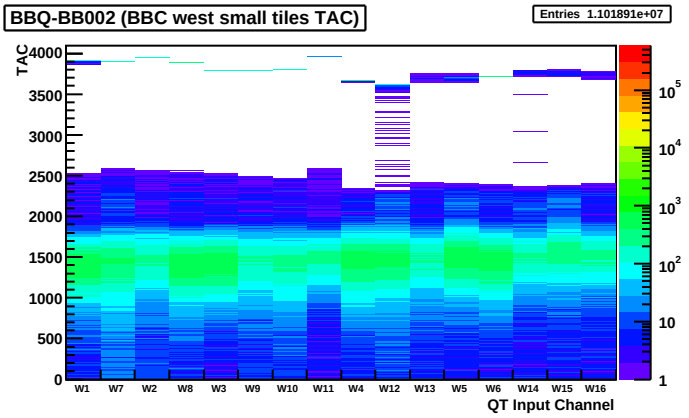

L1-TF201
Entries 688682
TOF total mult

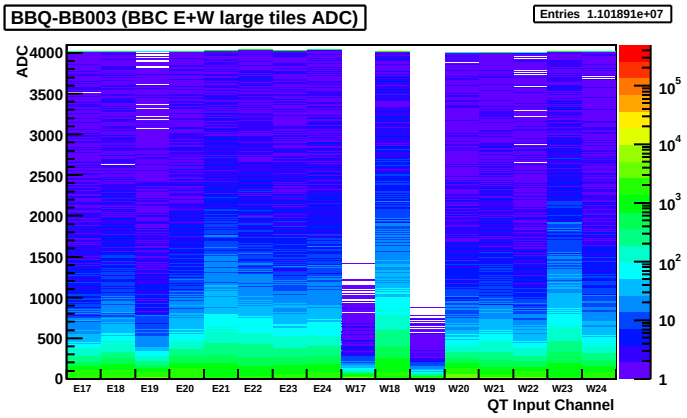

L1-TF201
Entries 4132092
Threshold bits
409055
406168
407370
405234
402017
383914
279627
282514
281312
283448
286665
304768
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

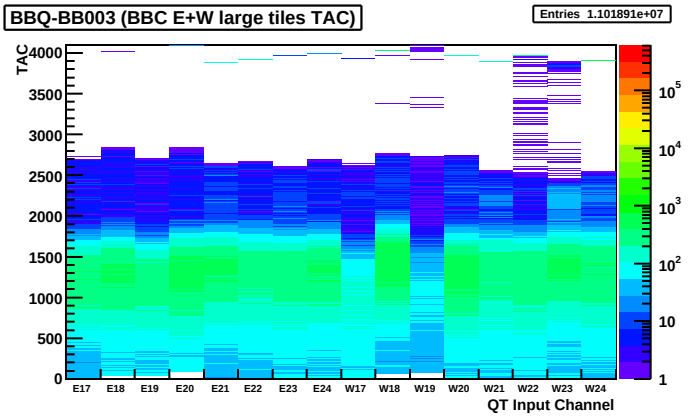

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.101891e+07
ADC
QT Input Channel

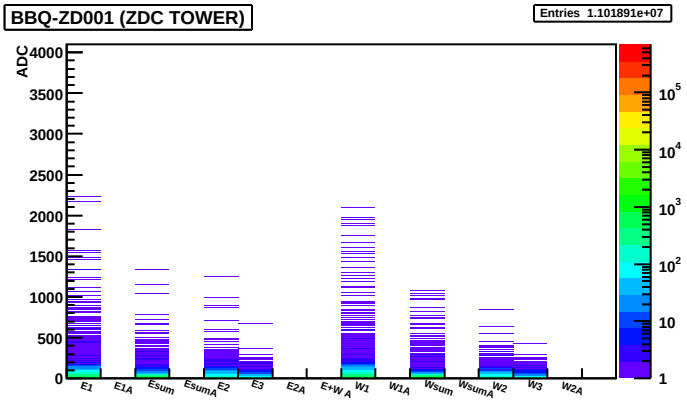

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.101891e+07
TAC
QT Input Channel

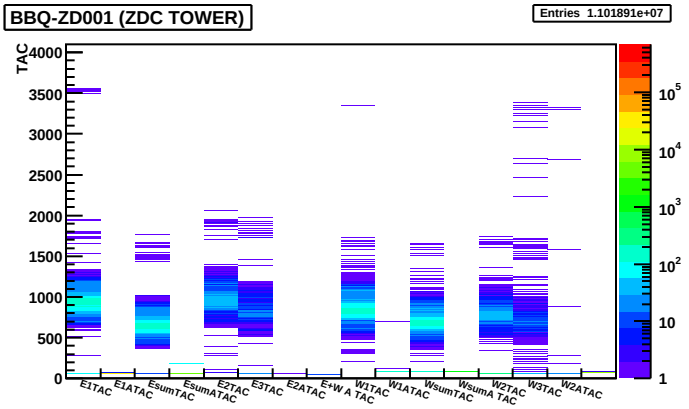

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.101891e+07
ADC
QT Input Channel

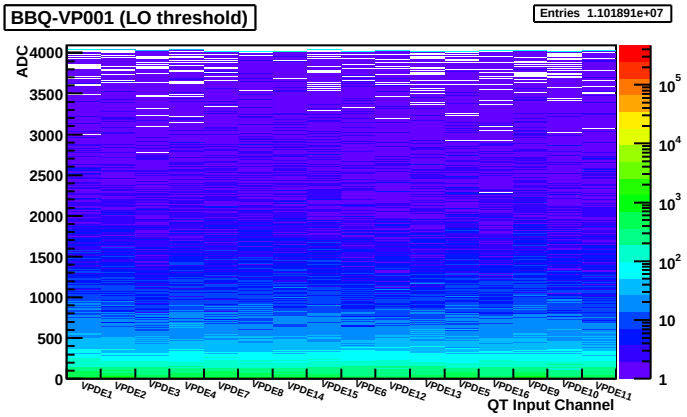

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.101891e+07
TAC
QT Input Channel

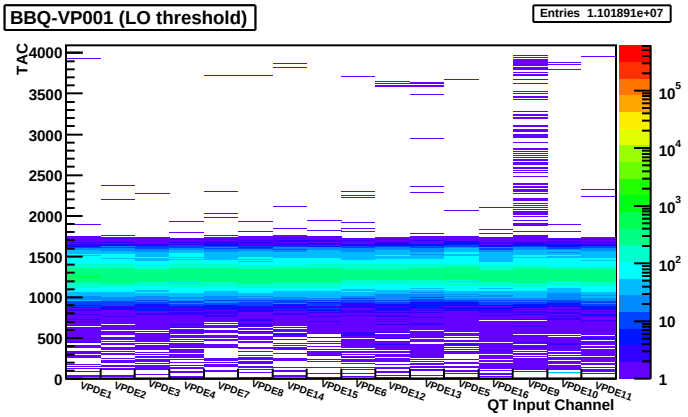

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.101891e+07
ADC
QT Input Channel

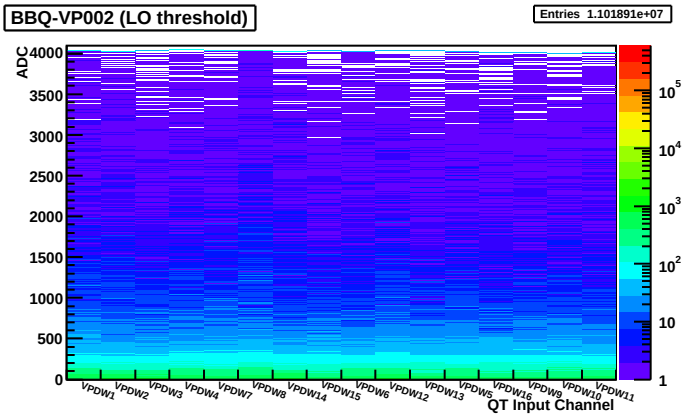

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.101891e+07
TAC
QT Input Channel

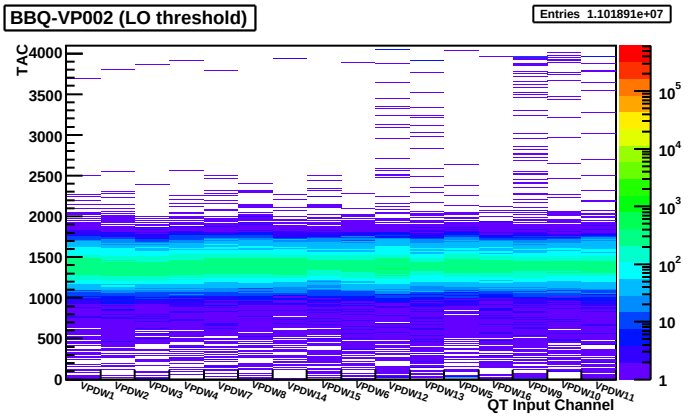

BBQ-ZD001 (ZDC TOWER)
Entries 1.101891e+07
ADC

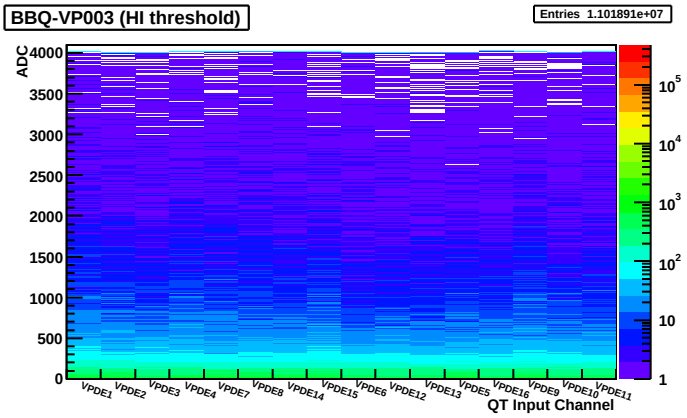

BBQ-ZD001 (ZDC TOWER)
Entries 1.101891e+07
TAC

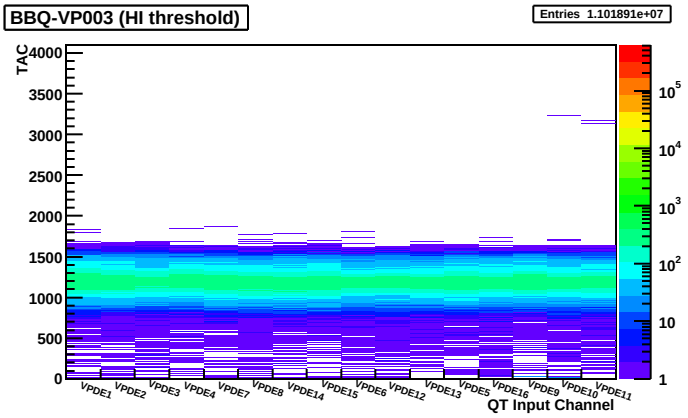

BBQ-VP001 (LO threshold)
Entries 1.101891e+07
ADC
QT Input Channel

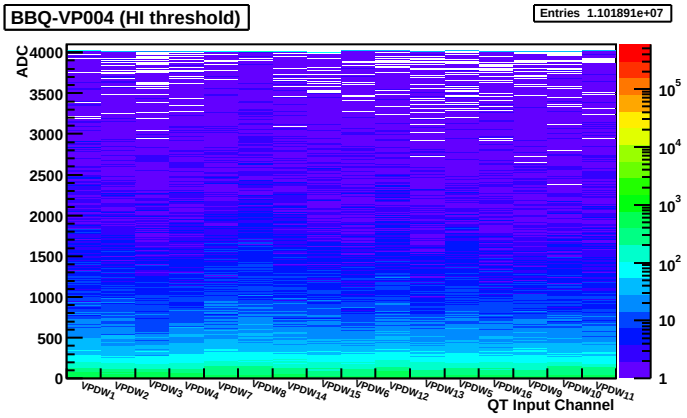

BBQ-VP001 (LO threshold)
Entries 1.101891e+07
TAC
QT Input Channel

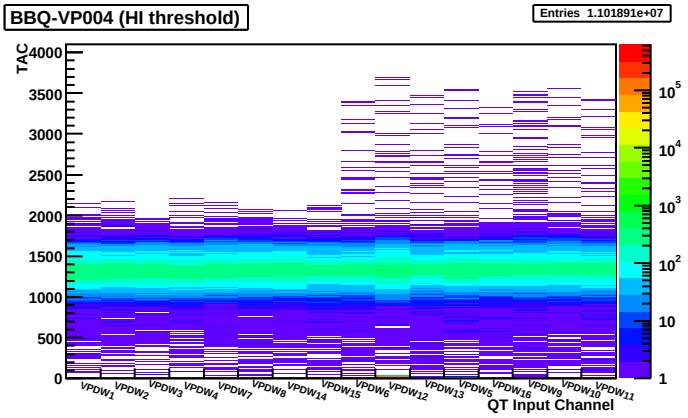

BBQ-VP002 (LO threshold)
Entries 1.101891e+07
ADC
QT Input Channel

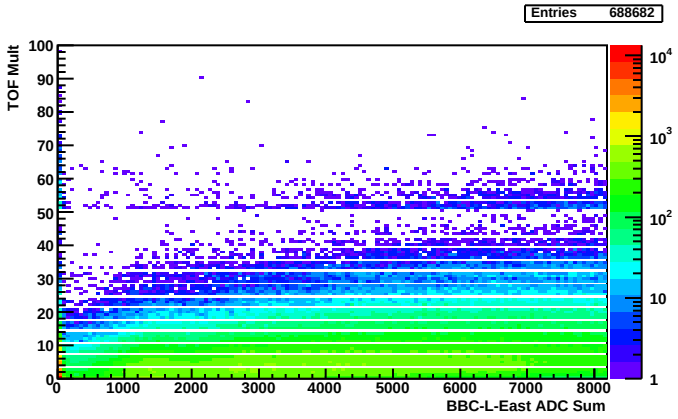

BBQ-VP002 (LO threshold)
Entries 1.101891e+07
TAC
QT Input Channel

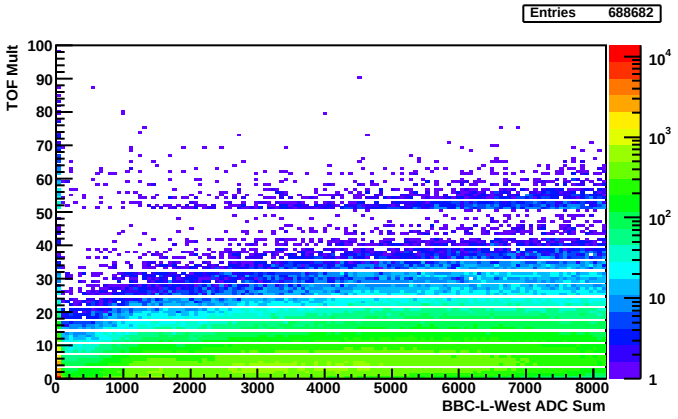

BBQ-VP003 (HI threshold)
Entries 1.101891e+07
ADC
QT Input Channel

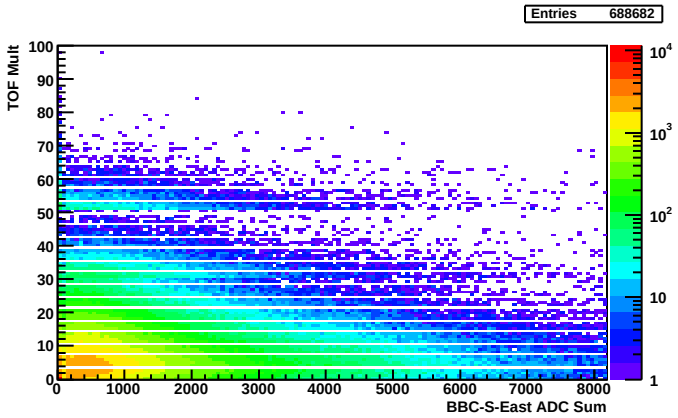

BBQ-VP003 (HI threshold)
Entries 1.101891e+07
TAC
QT Input Channel

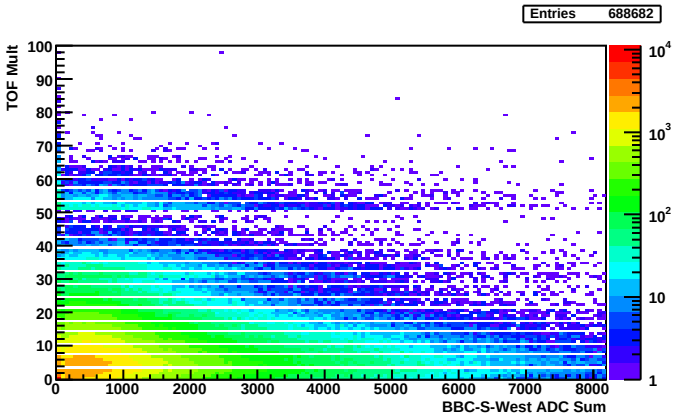

BBQ-VP004 (HI threshold)
Entries 1.101891e+07
ADC
QT Input Channel

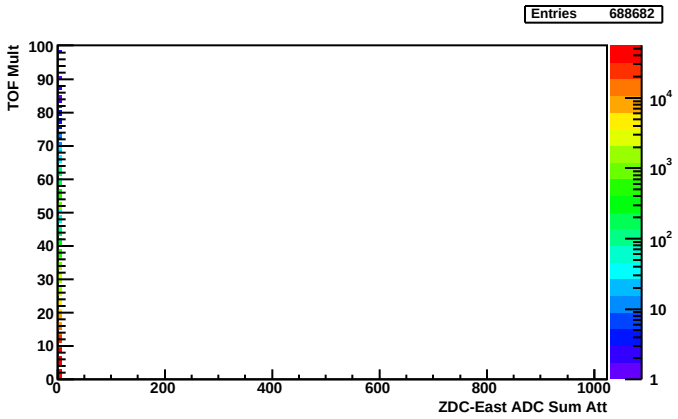

BBQ-VP004 (HI threshold)
Entries 1.101891e+07
TAC
QT Input Channel

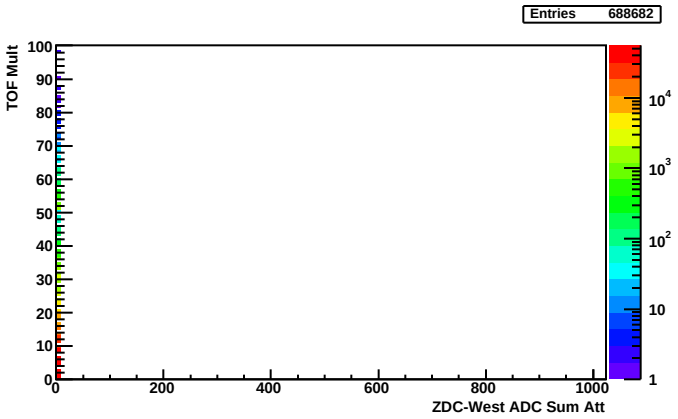

Entries 688682
TOF Mult
BBC-L-East ADC Sum

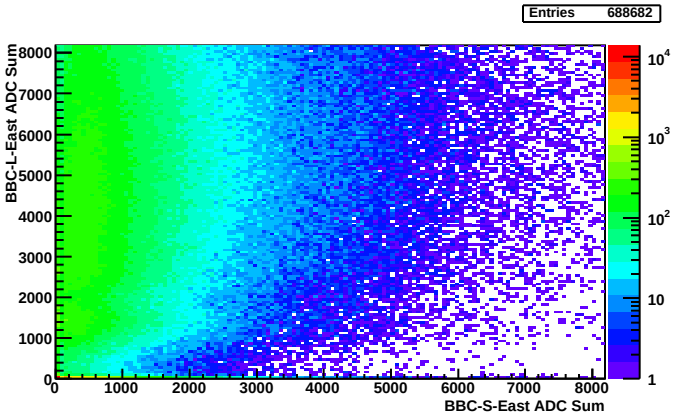

Entries 688682
TOF Mult
BBC-L-West ADC Sum

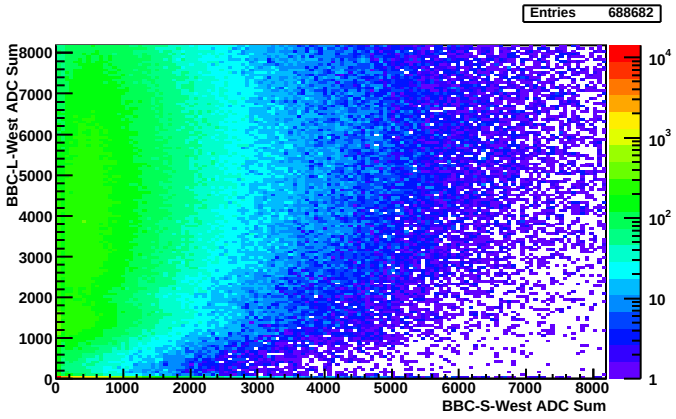

Entries 688682
TOF Mult
BBC-S-East ADC Sum

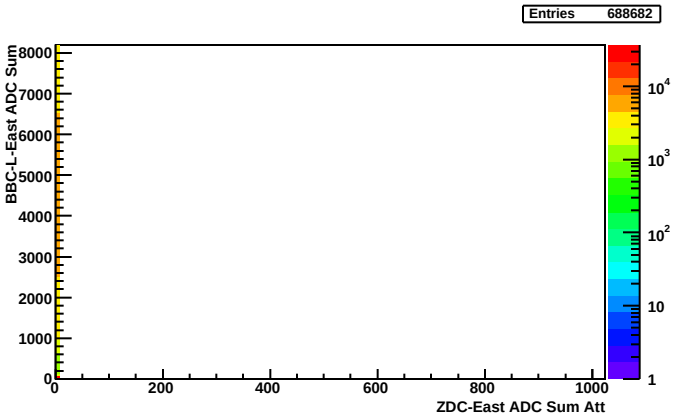

Entries 688682
TOF Mult
BBC-S-West ADC Sum

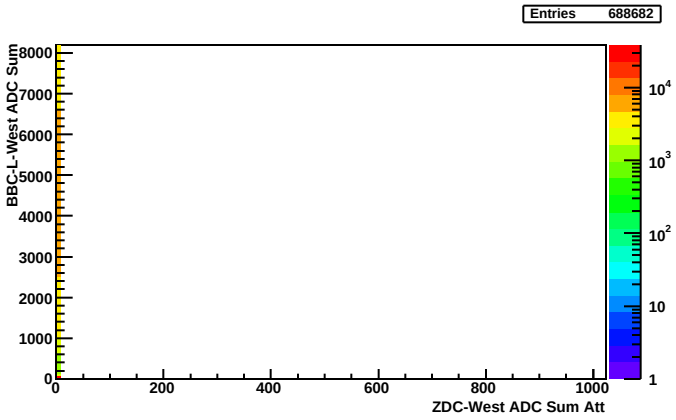

Entries 688682
TOF Mult
ZDC-East ADC Sum Att

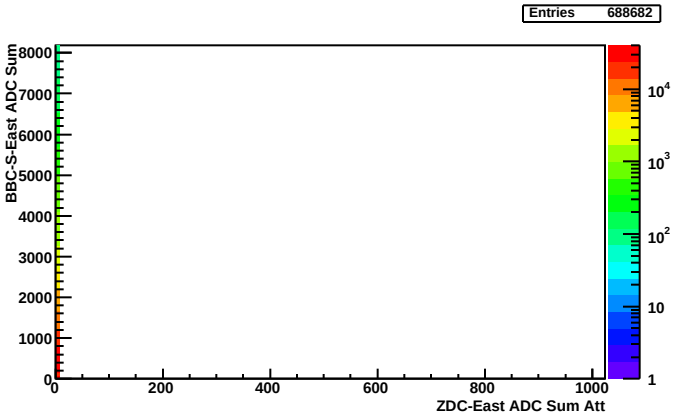

Entries 688682
TOF Mult
ZDC-West ADC Sum Att

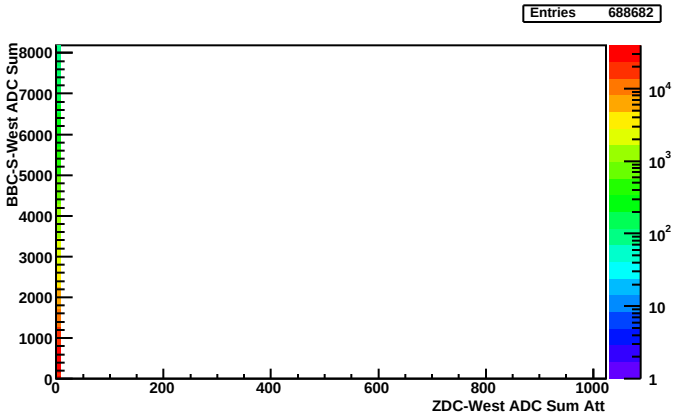

Entries 688682
BBC-L-East ADC Sum
BBC-S-East ADC Sum

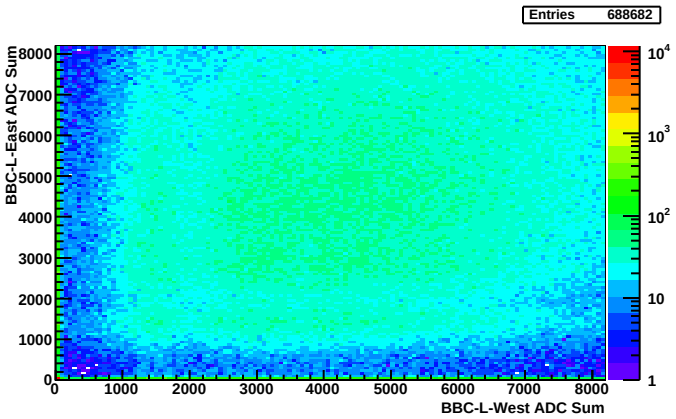

Entries 688682
BBC-L-West ADC Sum
BBC-S-West ADC Sum

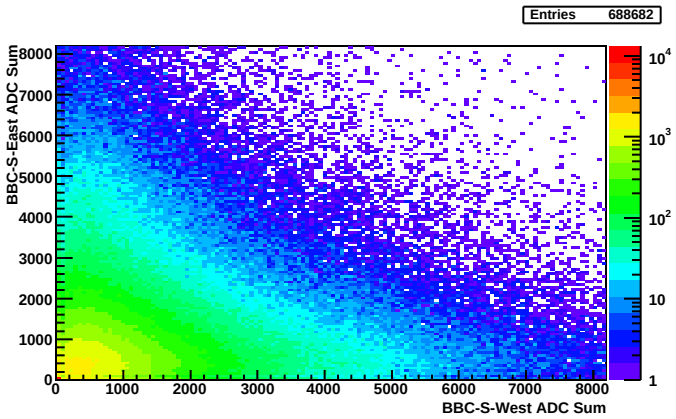

Entries 688682
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

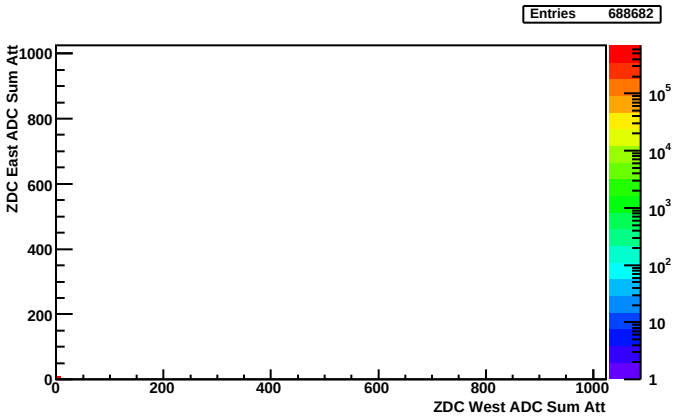

Entries 688682
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

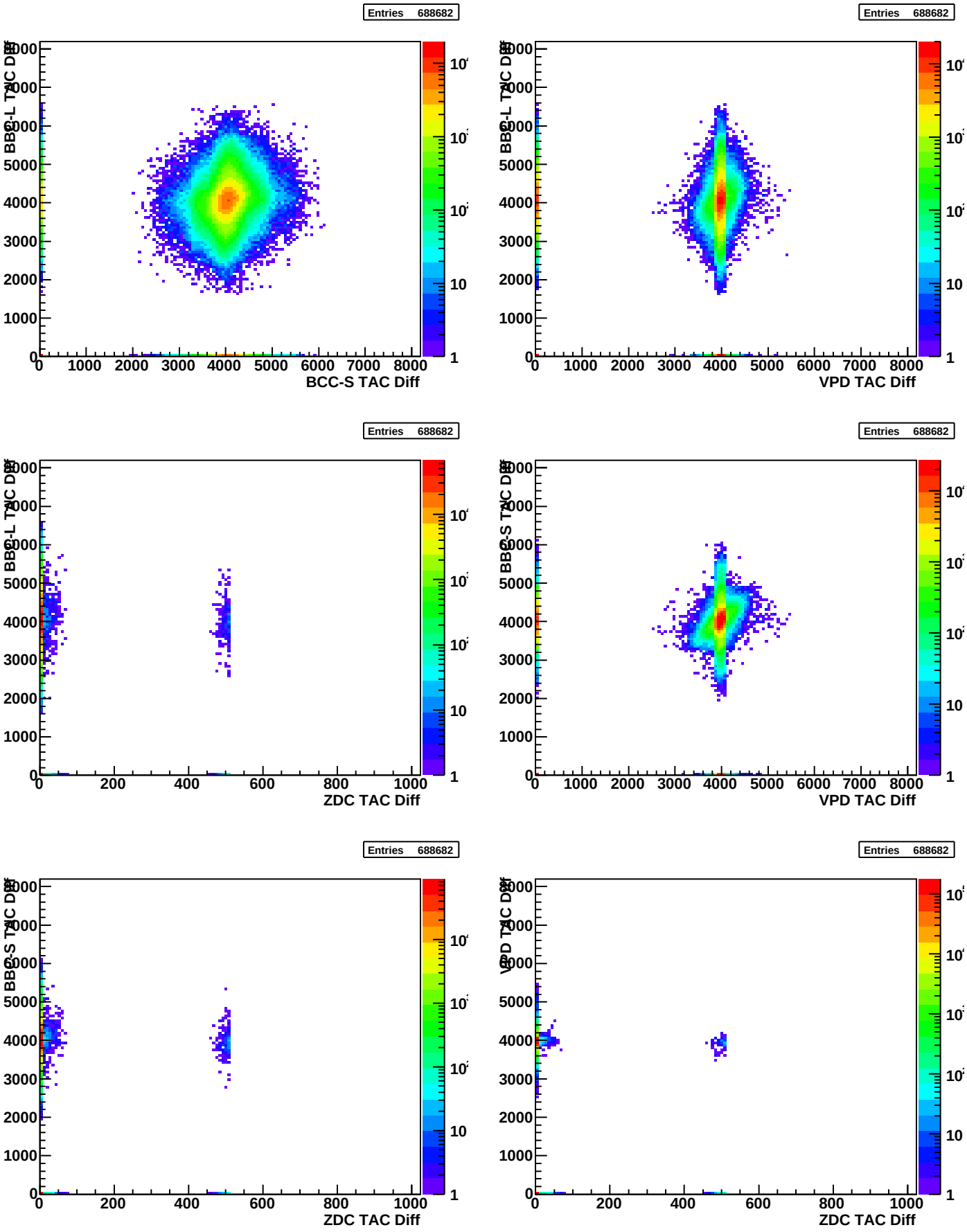

Entries 688682
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

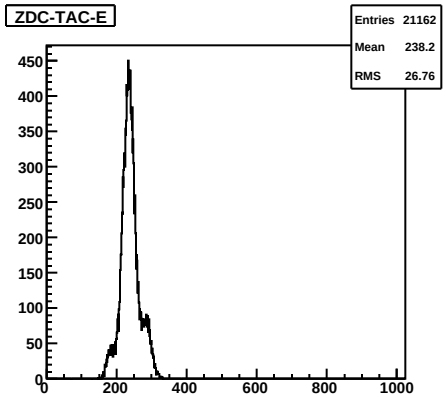

Entries 688682
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

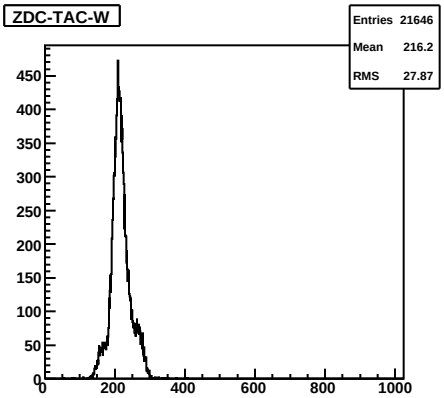

Entries 688682
BBC-L-East ADC Sum
BBC-L-West ADC Sum

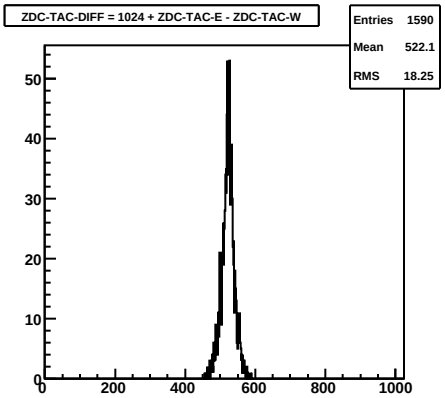

Entries 688682
BBC-S-East ADC Sum
BBC-S-West ADC Sum

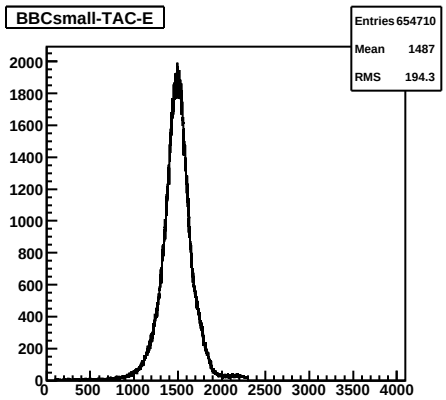

Entries 688682
ZDC East ADC Sum Att
ZDC West ADC Sum Att

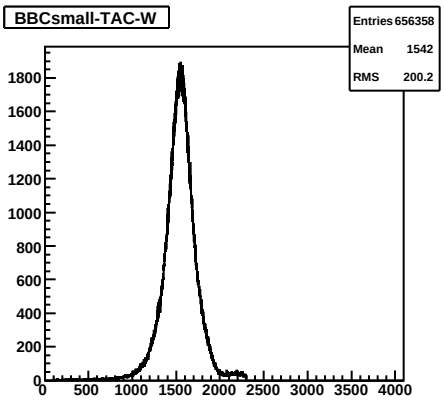

Entries 688682
BBC-L TAC Diff
BCC-S TAC Diff
Entries 688682
BBC-L TAC Diff
VPD TAC Diff
Entries 688682
BBC-L TAC Diff
ZDC TAC Diff
Entries 688682
BBC-S TAC Diff
VPD TAC Diff
Entries 688682
BBC-S TAC Diff
ZDC TAC Diff
Entries 688682
VPD TAC Diff
ZDC TAC Diff

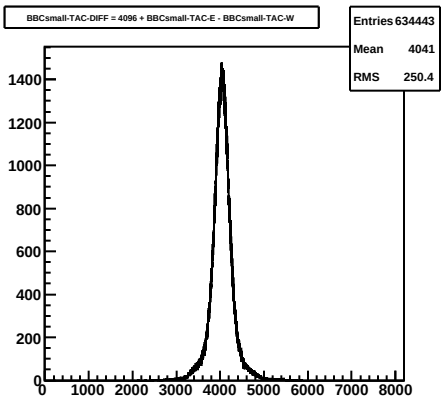

ZDC-TAC-E
Entries 21162
Mean 238.2
RMS 26.76

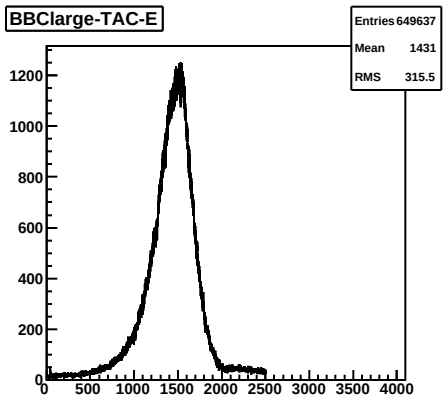

ZDC-TAC-W
Entries 21646
Mean 216.2
RMS 27.87

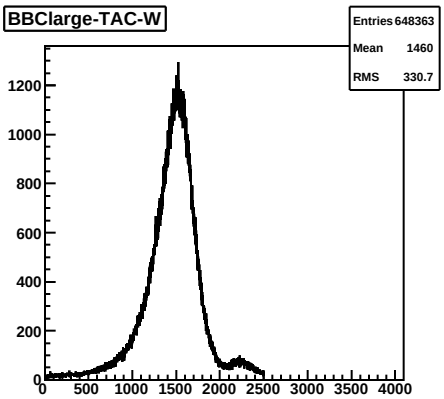

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1590
Mean 522.1
RMS 18.25

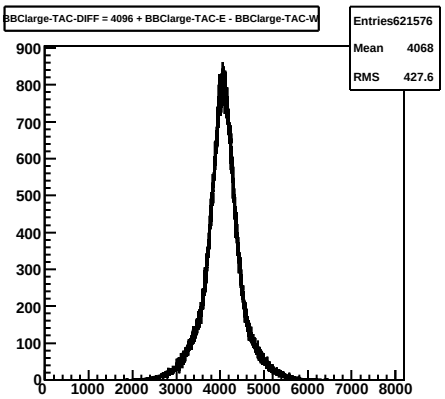

BBCsmall-TAC-E
Entries 654710
Mean 1487
RMS 194.3

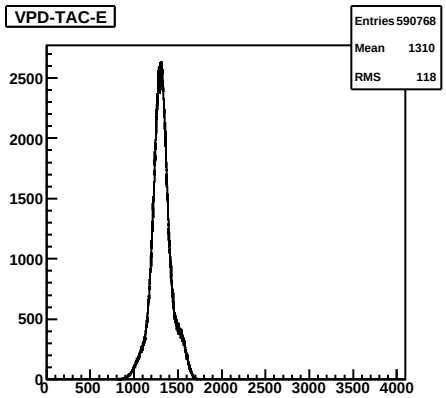

BBCsmall-TAC-W
Entries 656358
Mean 1542
RMS 200.2

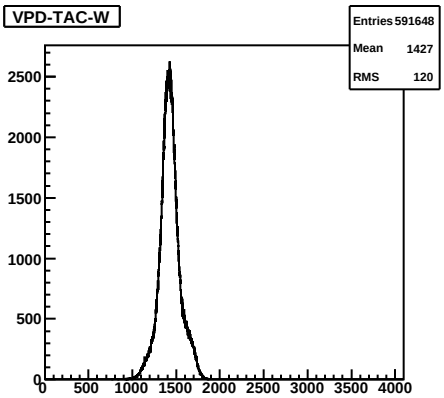

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 634443
Mean 4041
RMS 250.4

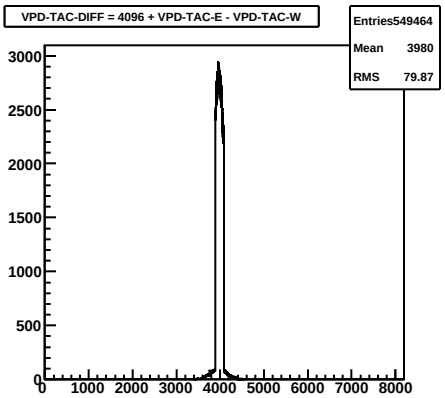

BBClarge-TAC-E
Entries 649637
Mean 1431
RMS 315.5

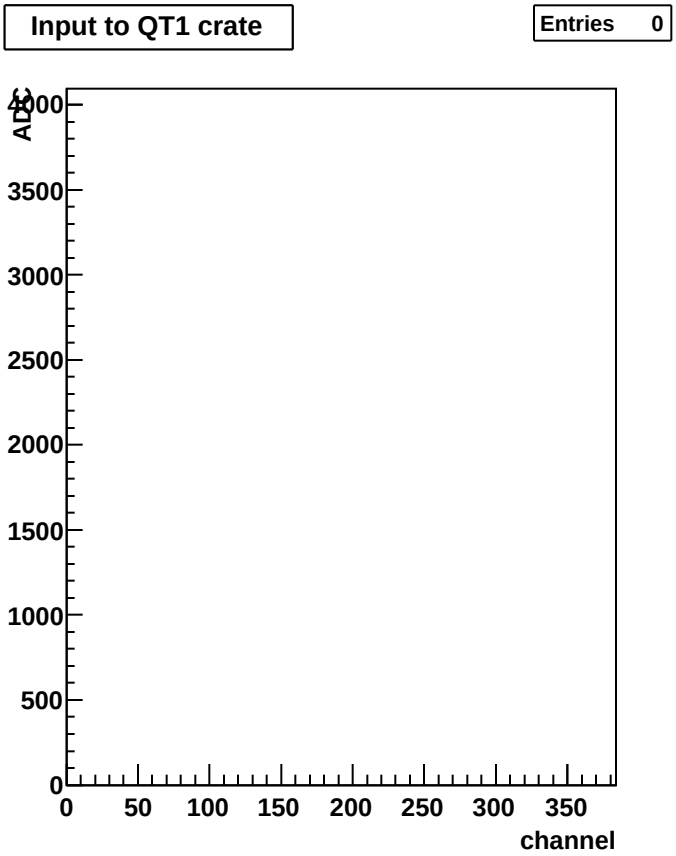

BBClarge-TAC-W
Entries 648363
Mean 1460
RMS 330.7

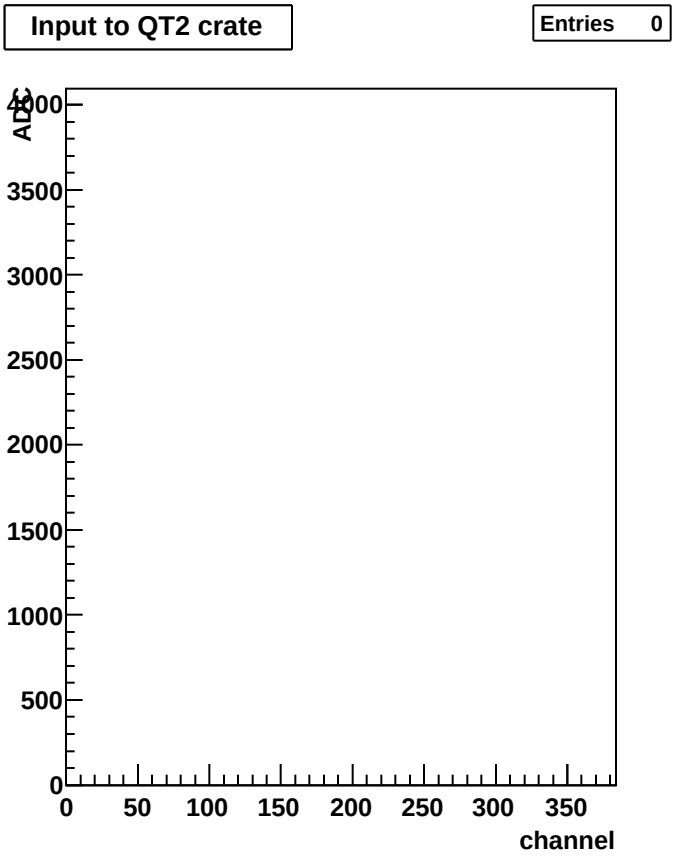

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries621576
Mean 4068
RMS 427.6

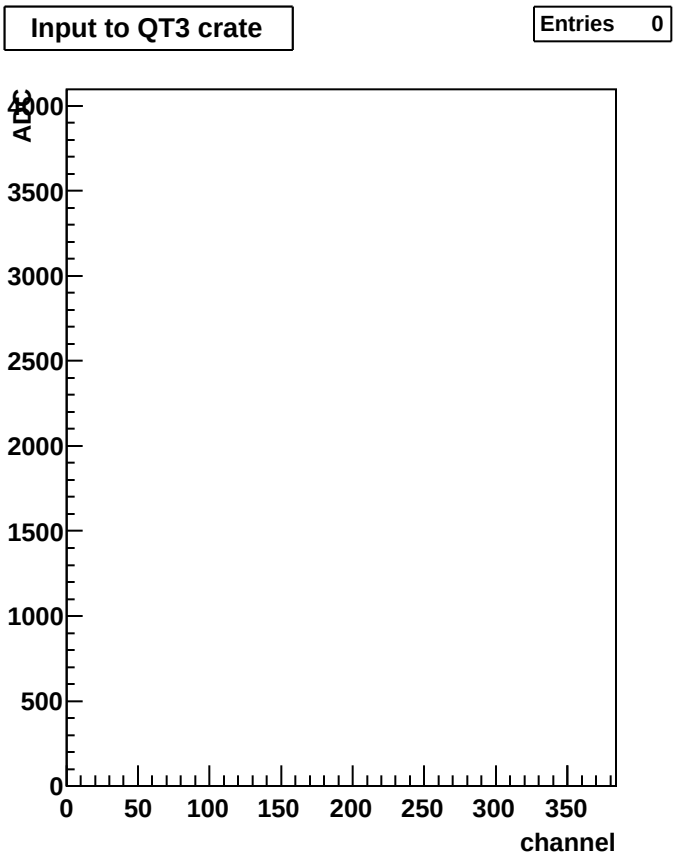

VPD-TAC-E
Entries 590768
Mean 1310
RMS 118

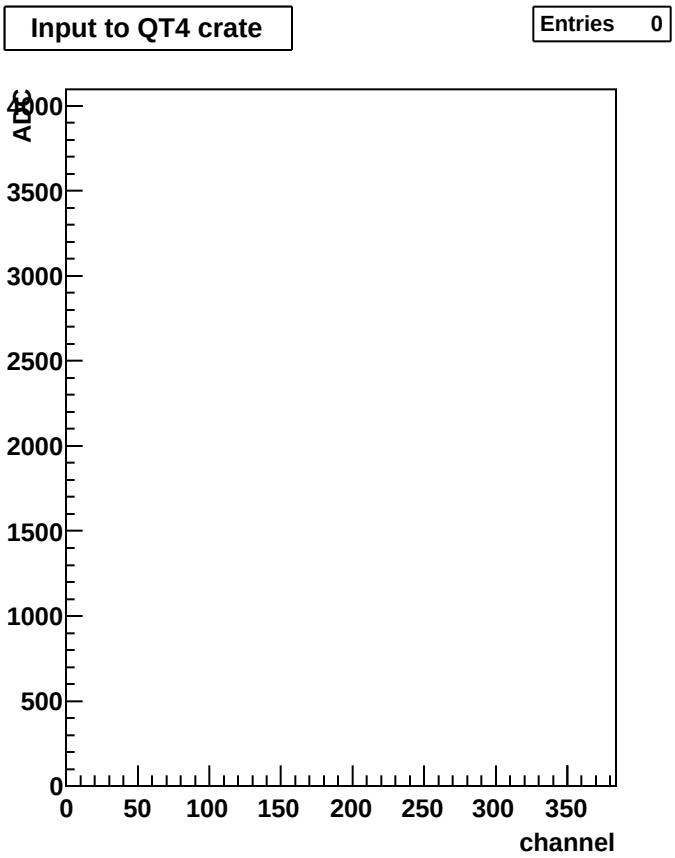

VPD-TAC-W
Entries 591648
Mean 1427
RMS 120

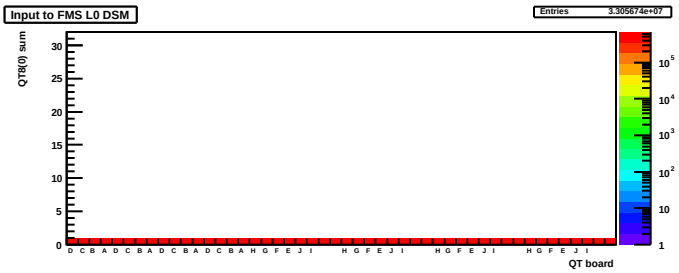

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries549464
Mean 3980
RMS 79.87

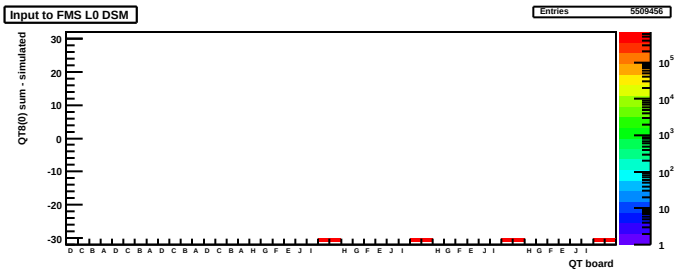

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

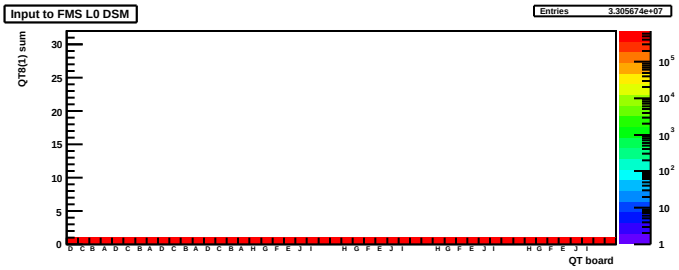

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

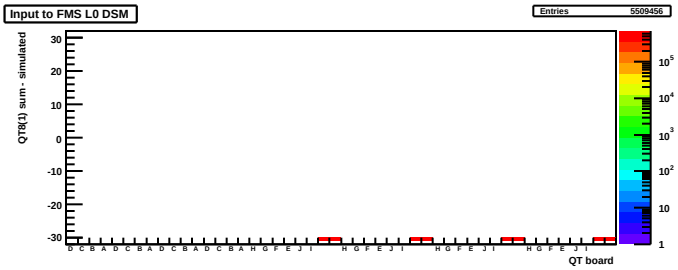

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

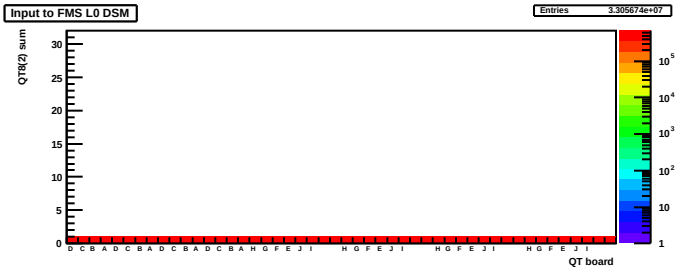

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

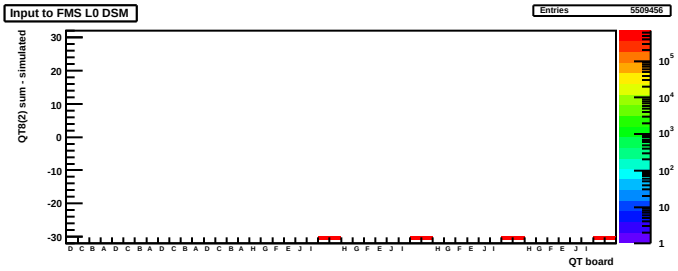

Input to FMS L0 DSM
Entries 3.305674e+07
QT8(0) sum
QT board

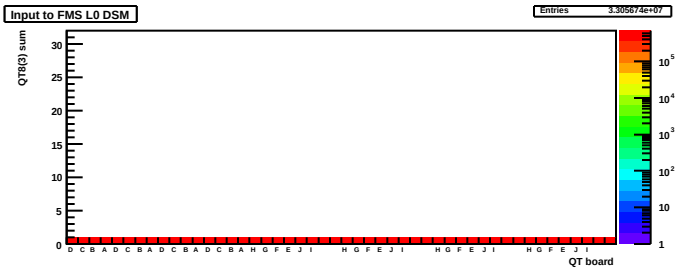

Input to FMS L0 DSM
Entries 5509456
QT8(0) sum - simulated
QT board

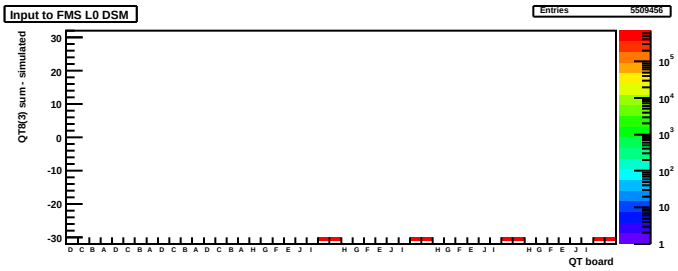

Input to FMS L0 DSM
Entries 3.305674e+07
QT8(1) sum
QT board

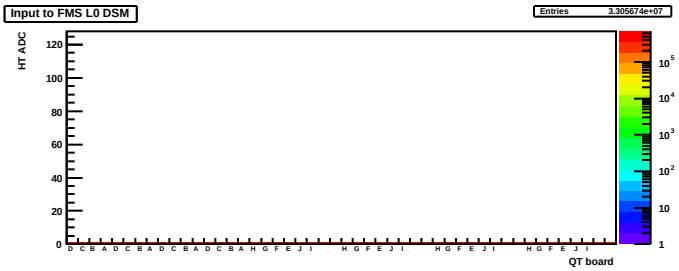

Input to FMS L0 DSM
Entries 5509456
QT8(1) sum - simulated
QT board

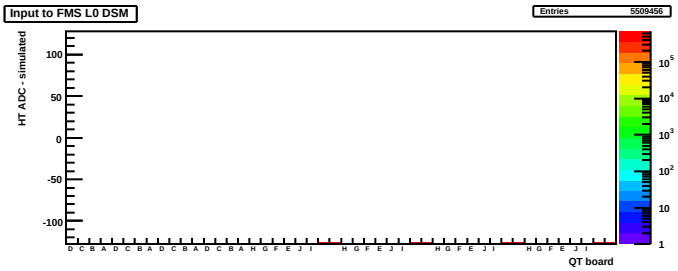

Input to FMS L0 DSM
Entries 3.305674e+07
QT8(2) sum
QT board

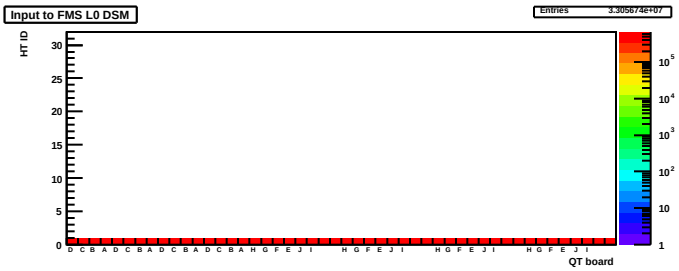

Input to FMS L0 DSM
Entries 5509456
QT8(2) sum - simulated
QT board

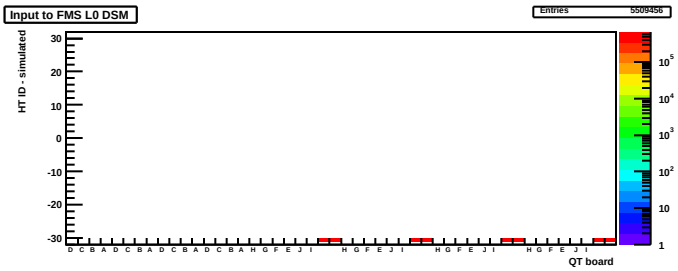

Input to FMS L0 DSM
Entries 3.305674e+07
QT8(3) sum
QT board

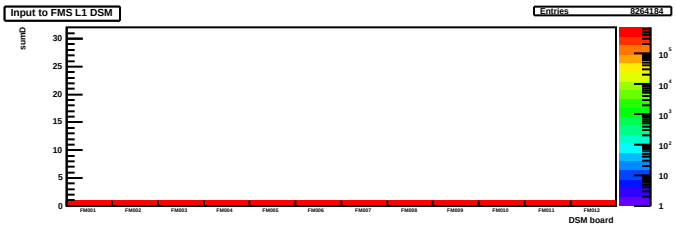

Input to FMS L0 DSM
Entries 5509456
QT8(3) sum - simulated
QT board

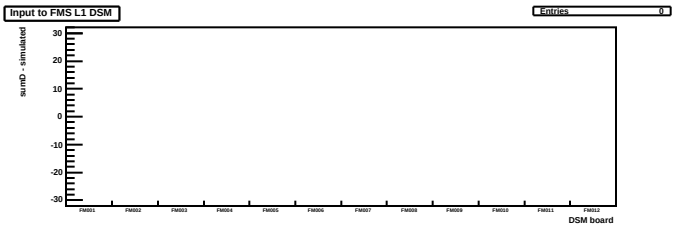

Input to FMS L0 DSM
Entries 3.305674e+07
HT ADC
QT board

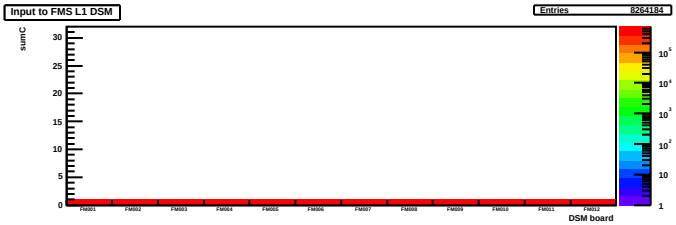

Input to FMS L0 DSM
Entries 5509456
HT ADC - simulated
QT board

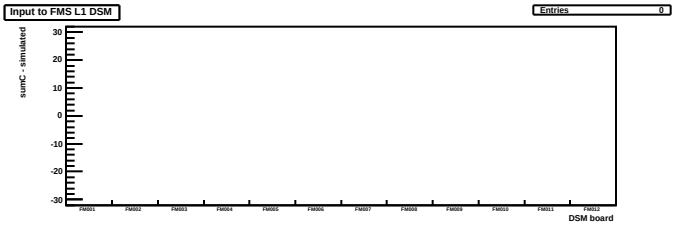

Input to FMS L0 DSM
Entries 3.305674e+07
HT ID
QT board

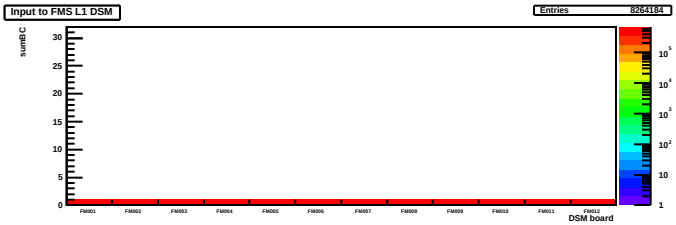

Input to FMS L0 DSM
Entries 5509456
HT ID - simulated
QT board

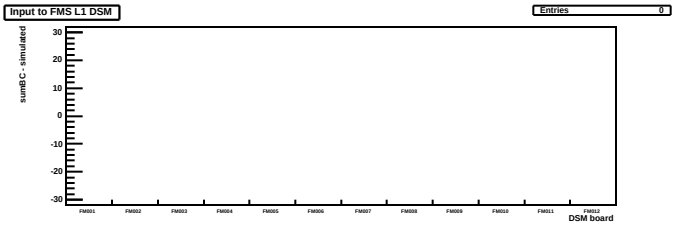

Input to FMS L1 DSM
Entries 8264184
sumD
DSM board

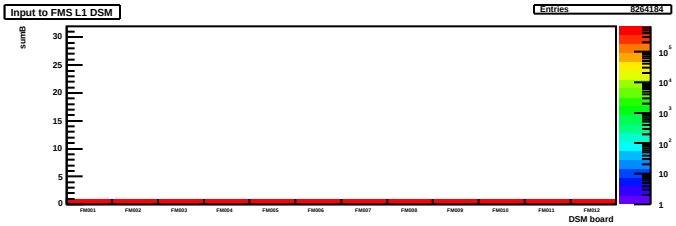

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

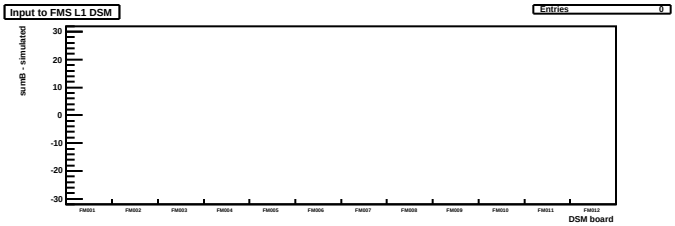

Input to FMS L1 DSM
Entries 8264184
sumC
DSM board

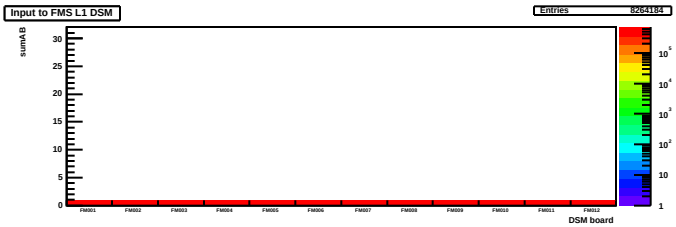

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

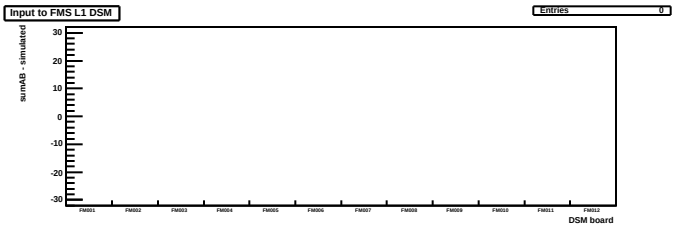

Input to FMS L1 DSM
Entries 8264184
sumBC
DSM board

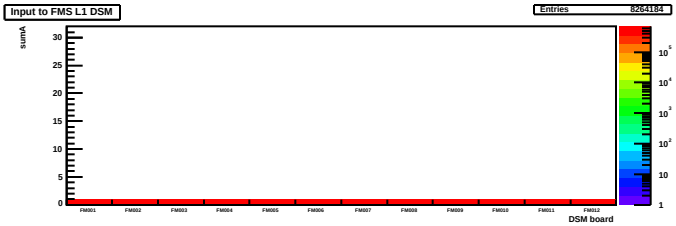

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

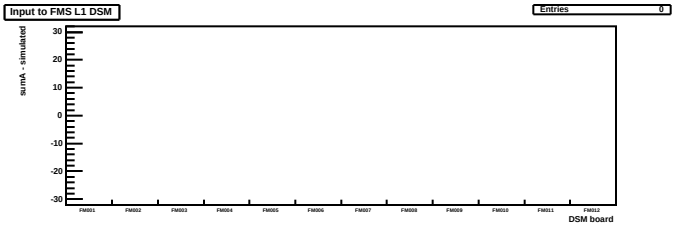

Input to FMS L1 DSM
Entries 8264184
sumB
DSM board

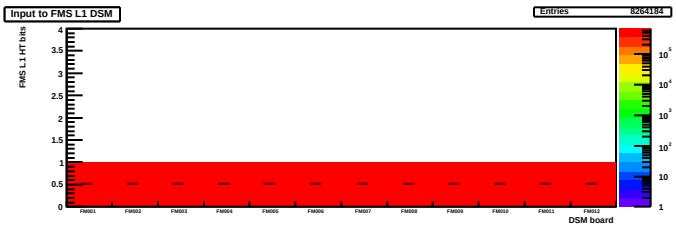

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

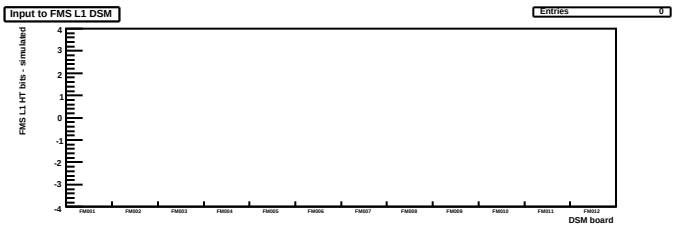

Input to FMS L1 DSM
Entries 8264184
sumAB
DSM board

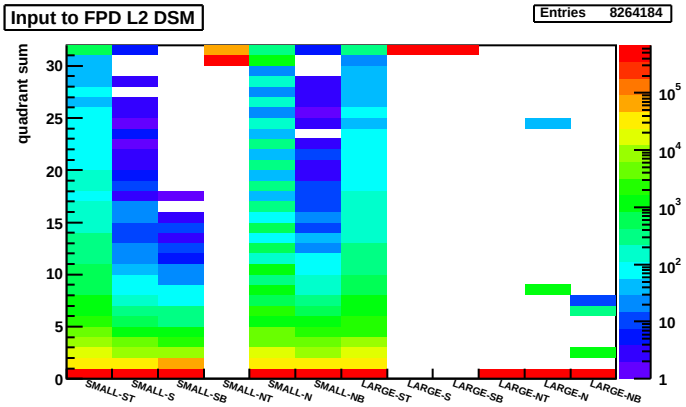

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

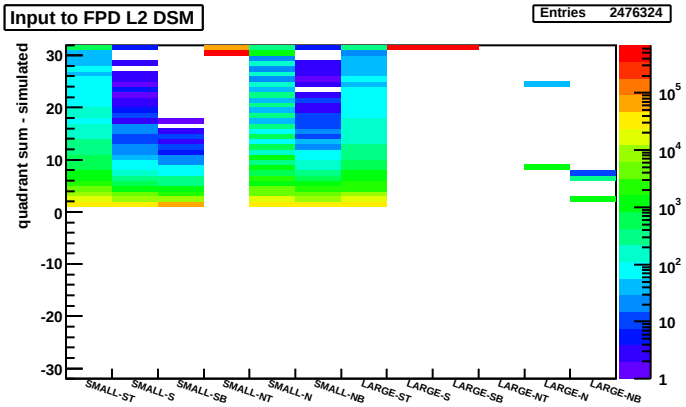

Input to FMS L1 DSM
Entries 8264184
sumA
DSM board

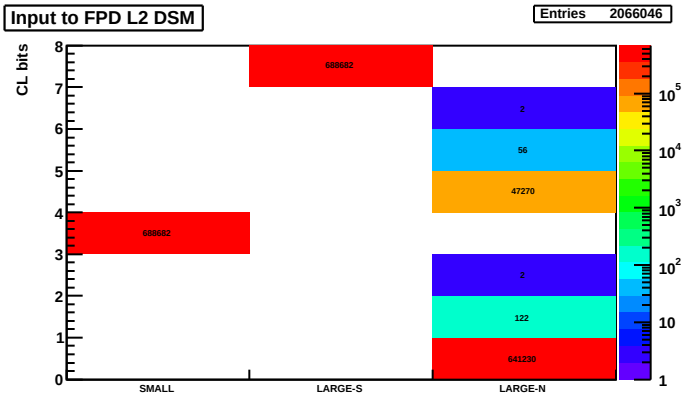

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

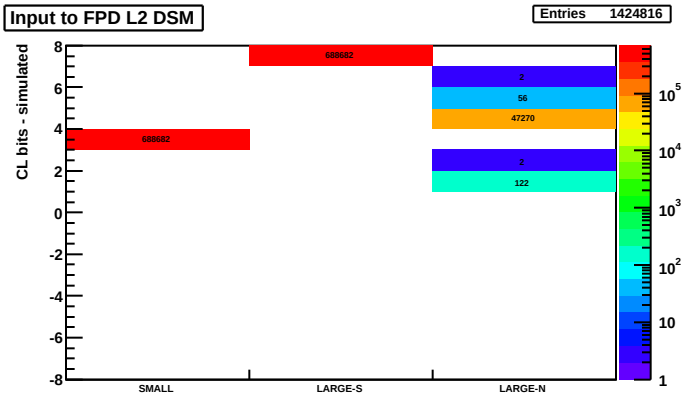

Input to FMS L1 DSM
Entries 8264184
FMS L1 HT bits
DSM board

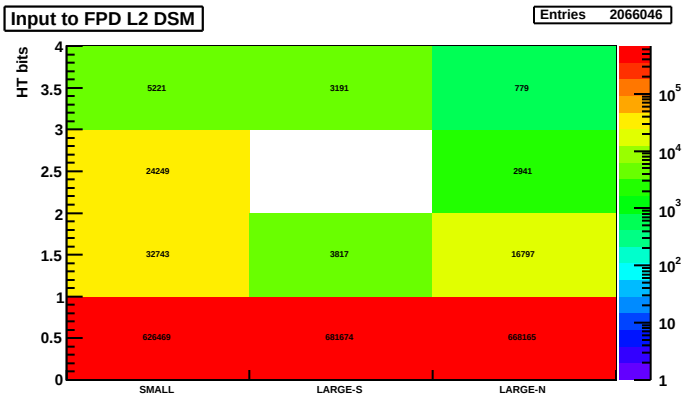

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

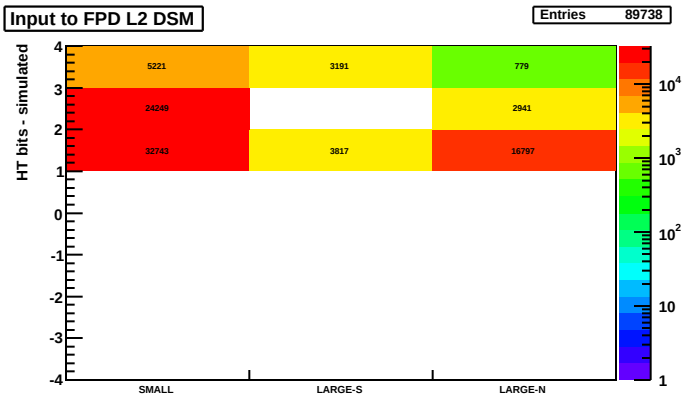

Input to FPD L2 DSM
Entries 8264184
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

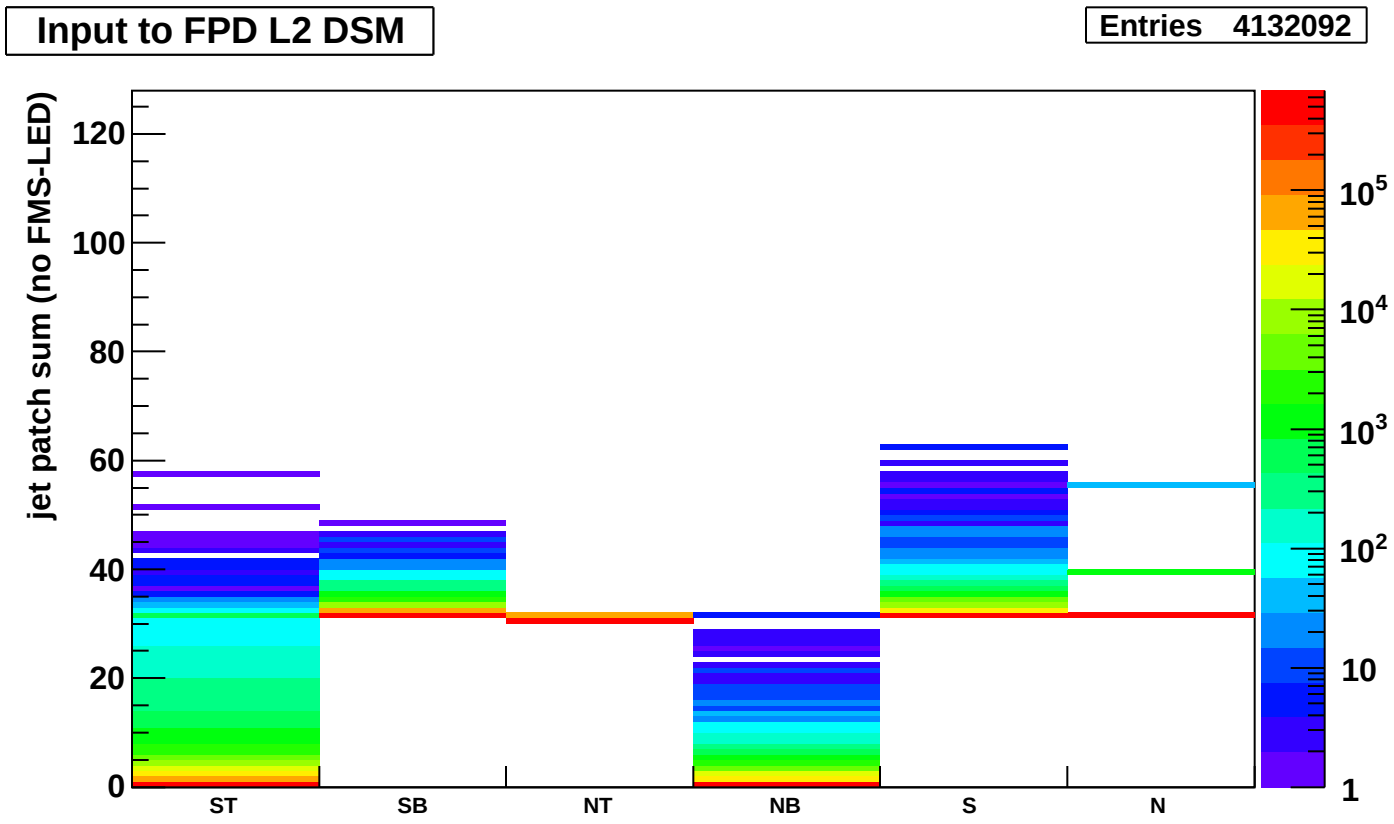

Input to FPD L2 DSM
Entries 2476324
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

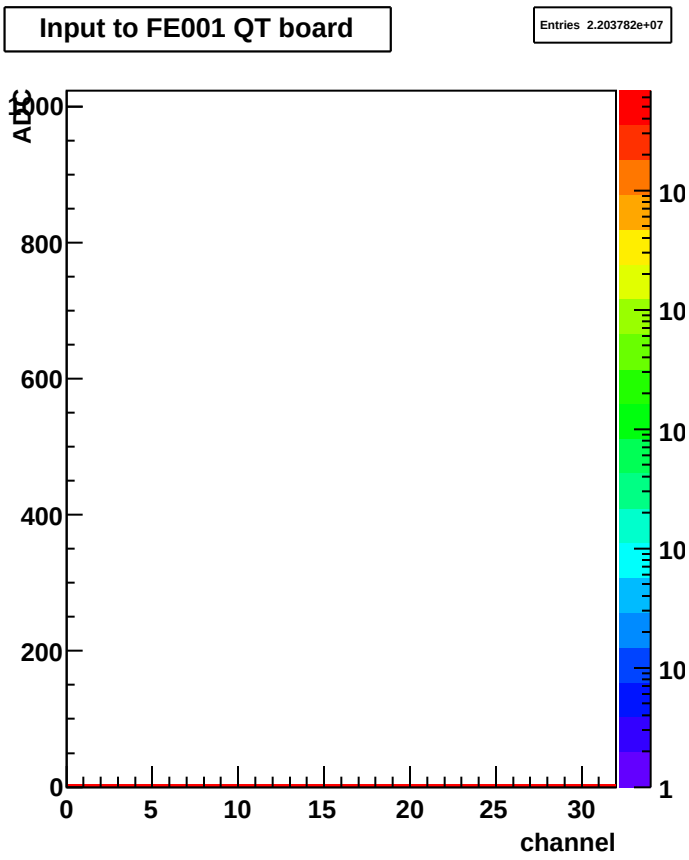

Input to FPD L2 DSM
Entries 2066046
CL bits
688682
2
56
47270
688682
2
122
641230
SMALL
LARGE-S
LARGE-N

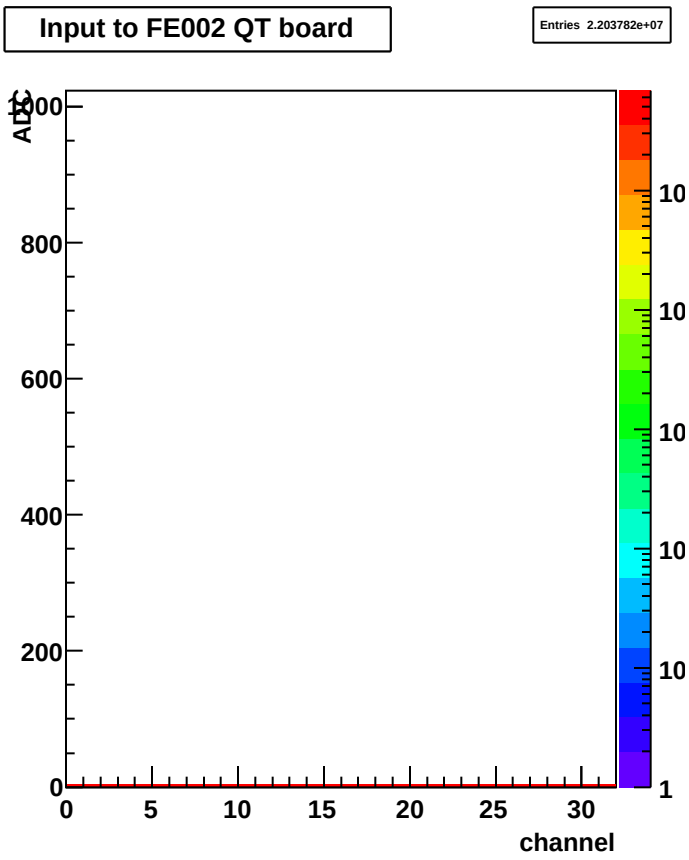

Input to FPD L2 DSM
Entries 1424816
CL bits - simulated
688682
2
56
47270
688682
2
122
SMALL
LARGE-S
LARGE-N

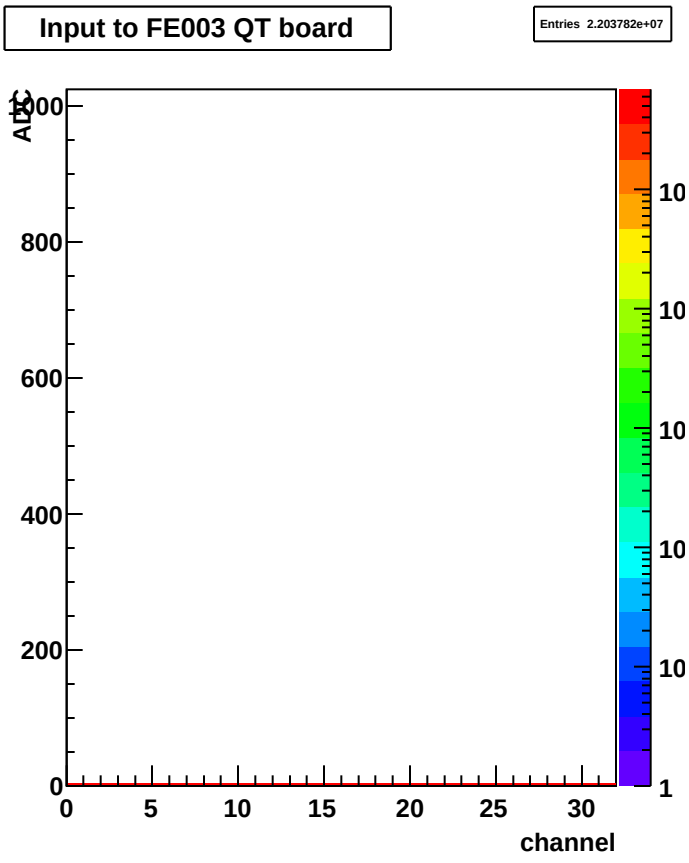

Input to FPD L2 DSM
Entries 2066046
HT bits
5221
3191
779
24249
2941
32743
3817
16797
626469
681674
668165
SMALL
LARGE-S
LARGE-N

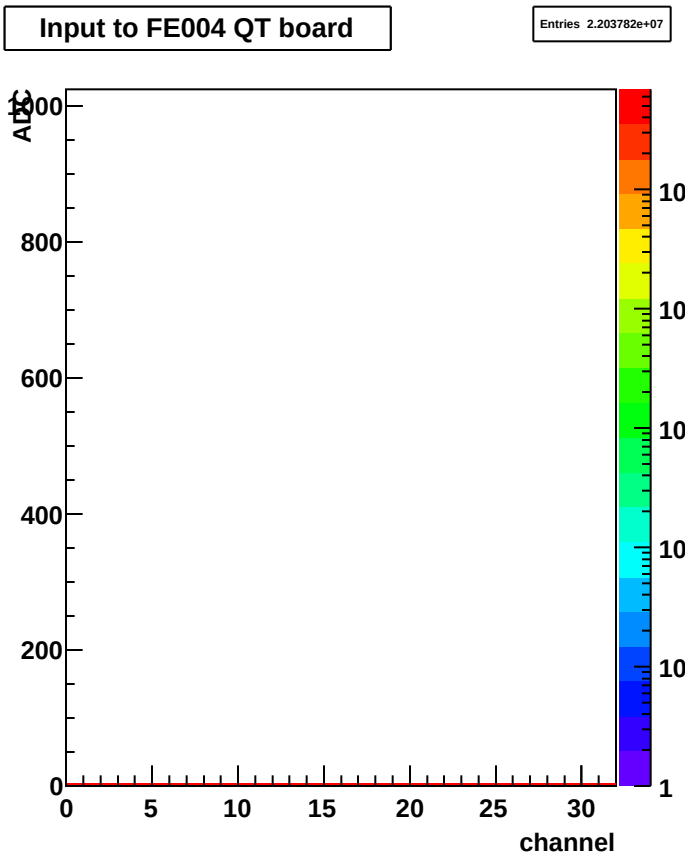

Input to FPD L2 DSM
Entries 89738
HT bits - simulated
5221
3191
779
24249
2941
32743
3817
16797
SMALL
LARGE-S
LARGE-N

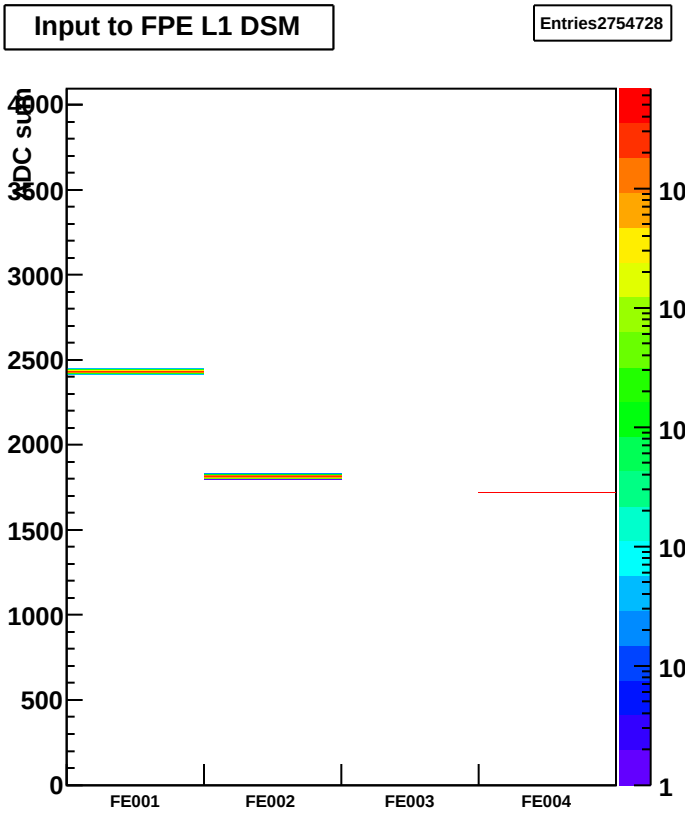

Input to FPD L2 DSM
Entries 4132092
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

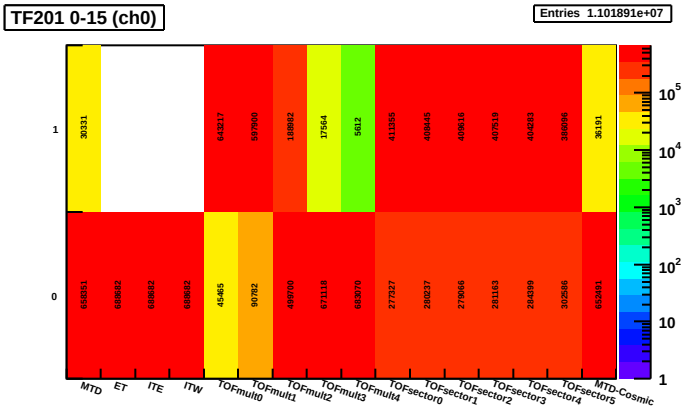

Input to FE001 QT board
Entries 2.203782e+07
ADC
channel

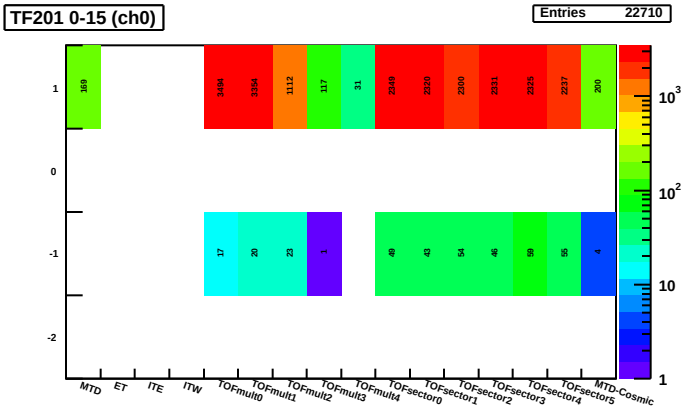

Input to FE002 QT board
Entries 2.203782e+07
ADC
channel

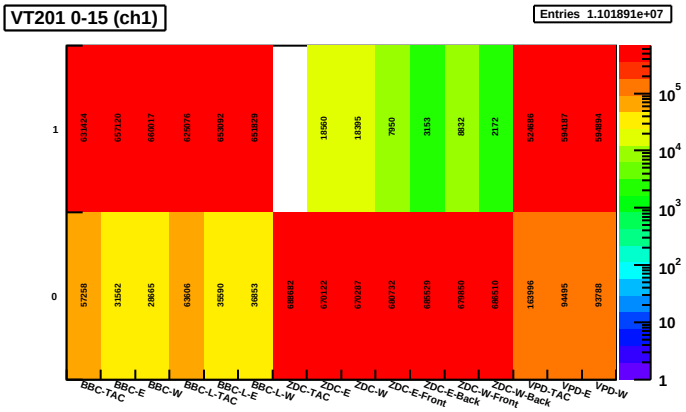

Input to FE003 QT board
Entries 2.203782e+07
ADC
channel

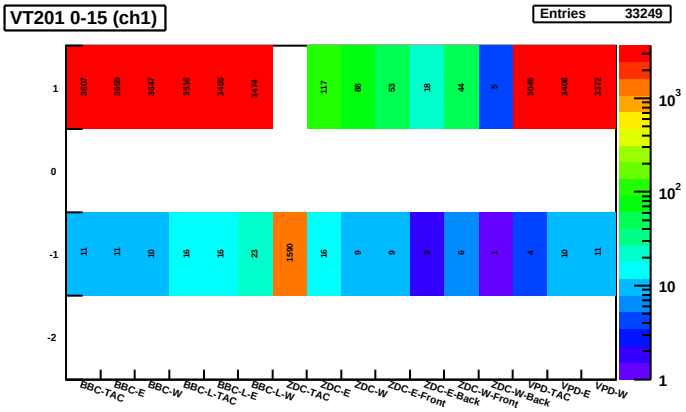

Input to FE004 QT board
Entries 2.203782e+07
ADC
channel

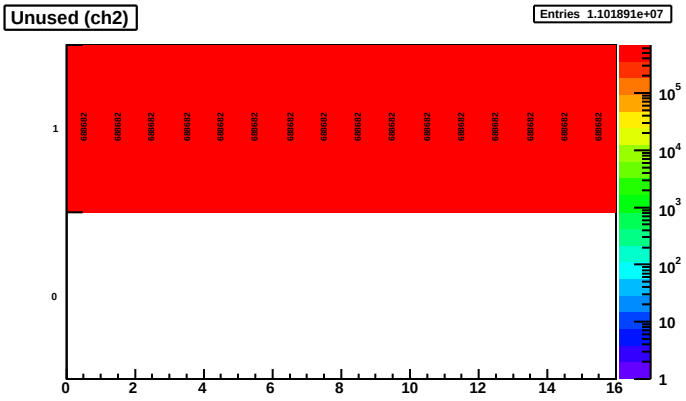

Input to FPE L1 DSM
Entries2754728
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

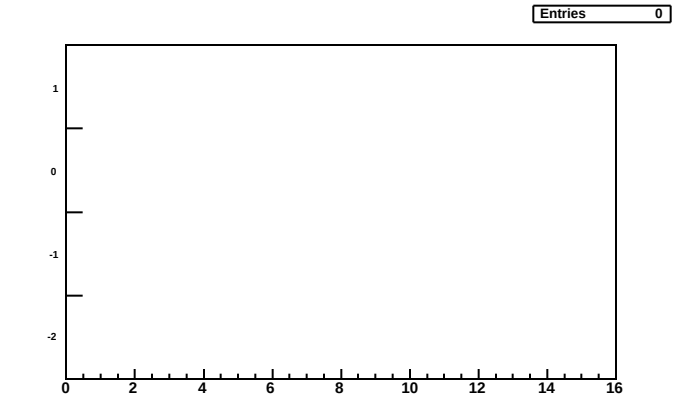

TF201 0-15 (ch0)
Entries 1.101891e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

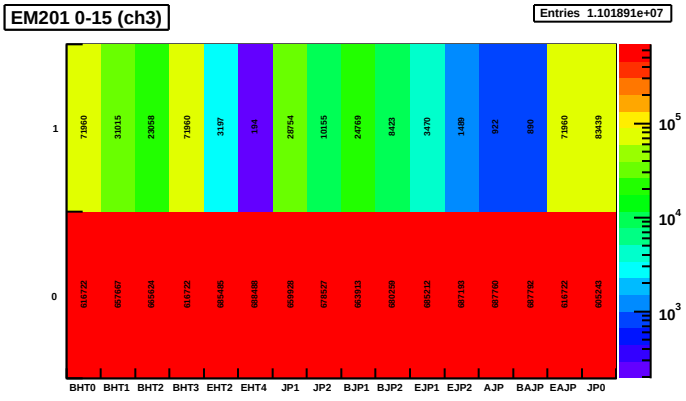

TF201 0-15 (ch0)
Entries 22710
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

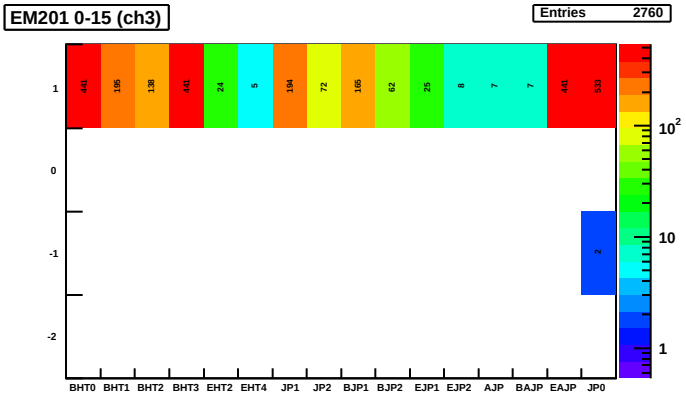

VT201 0-15 (ch1)
Entries 1.101891e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 33249
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

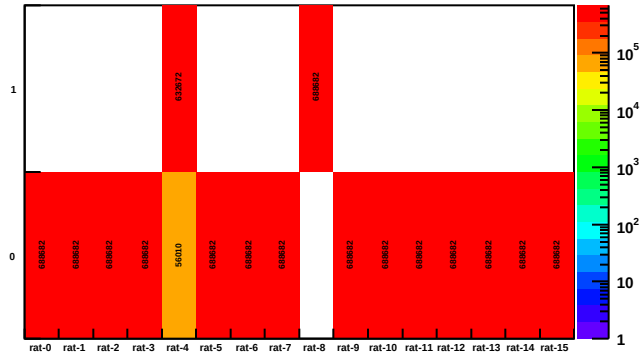

Unused (ch2)
Entries 1.101891e+07

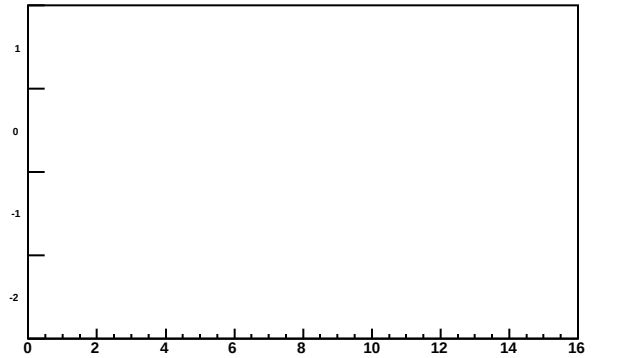

Entries 0


EM201 0-15 (ch3)
Entries 1.101891e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

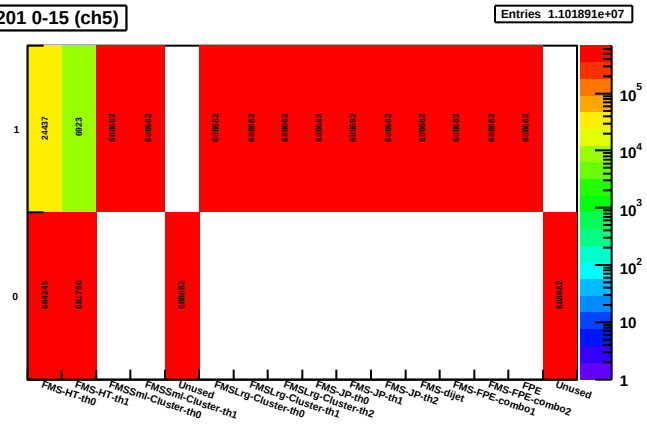

EM201 0-15 (ch3)
Entries 2760
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

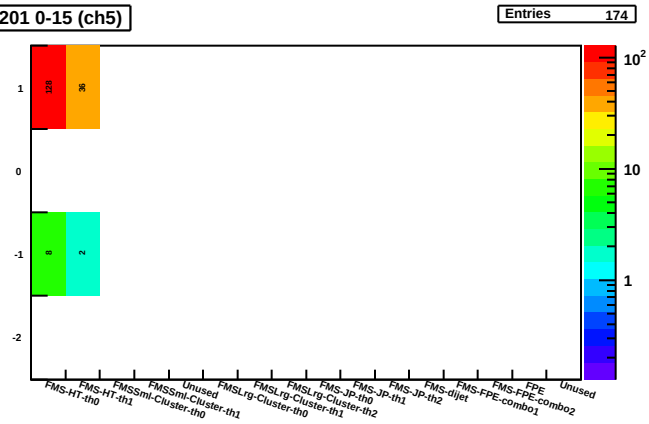




FP201 0-15 (ch5)



FP201 0-15 (ch5)



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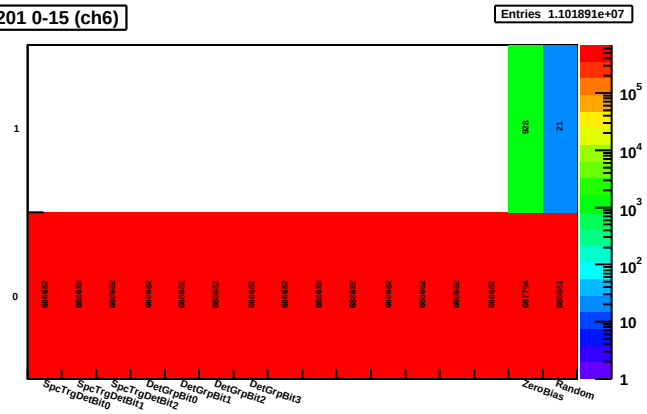

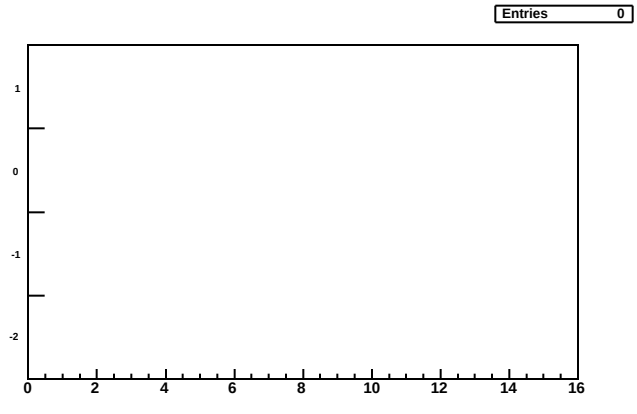
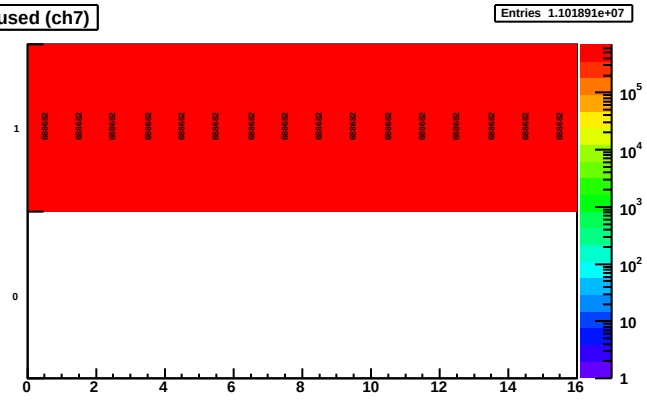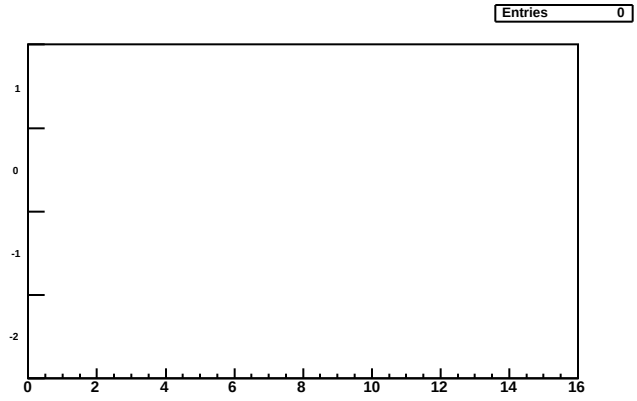
Unused (ch7)