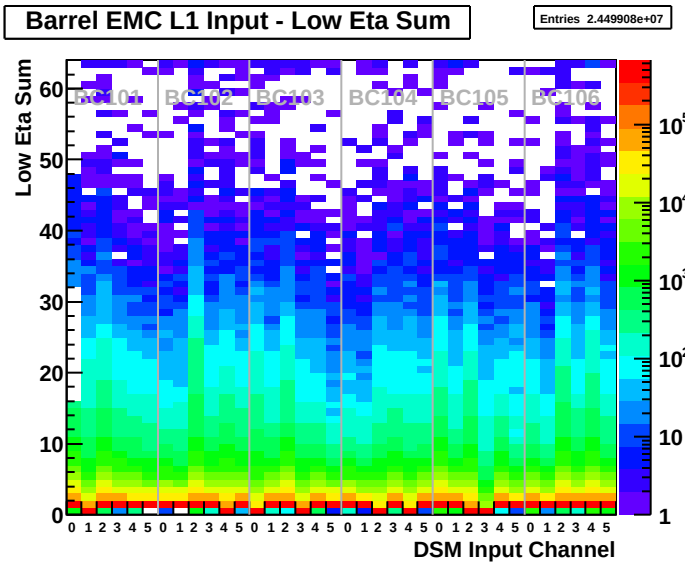
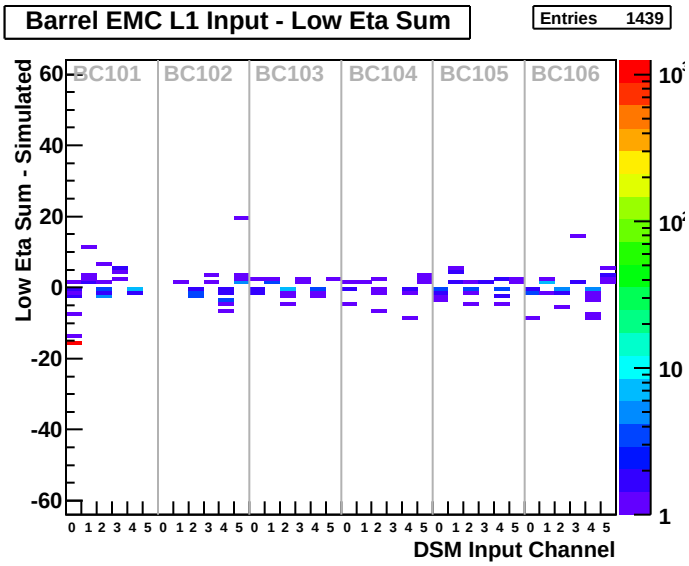
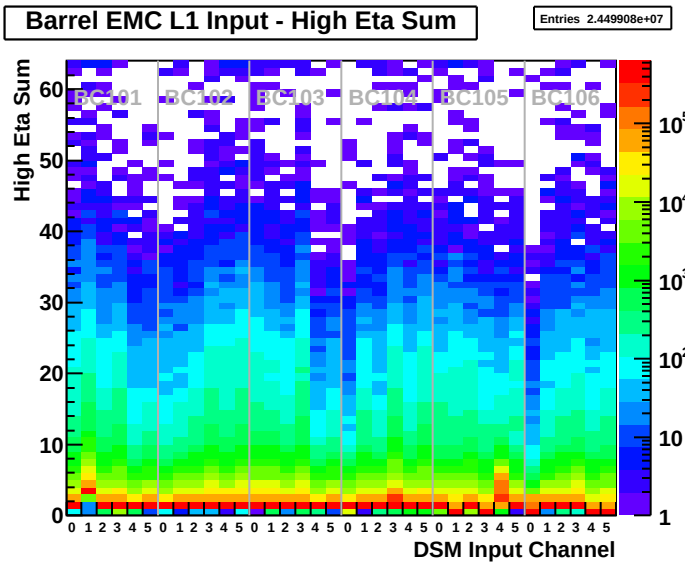
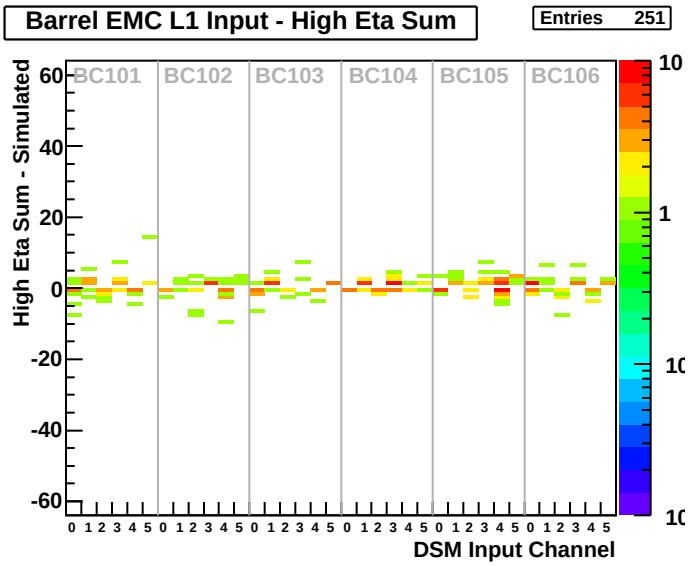
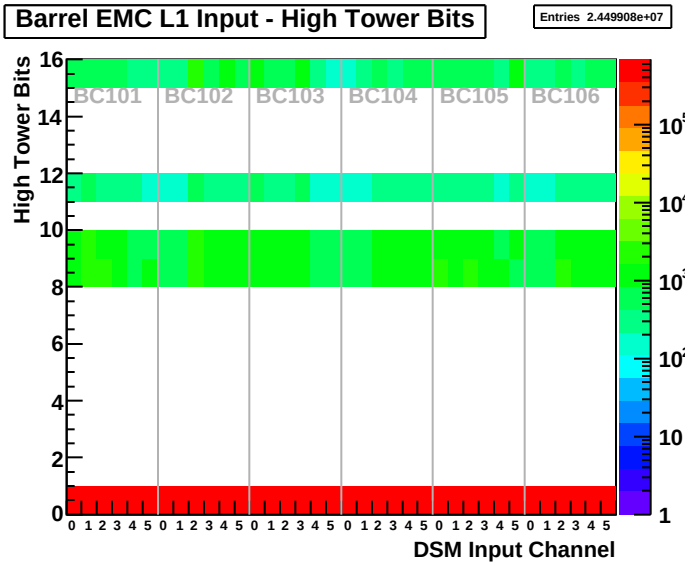
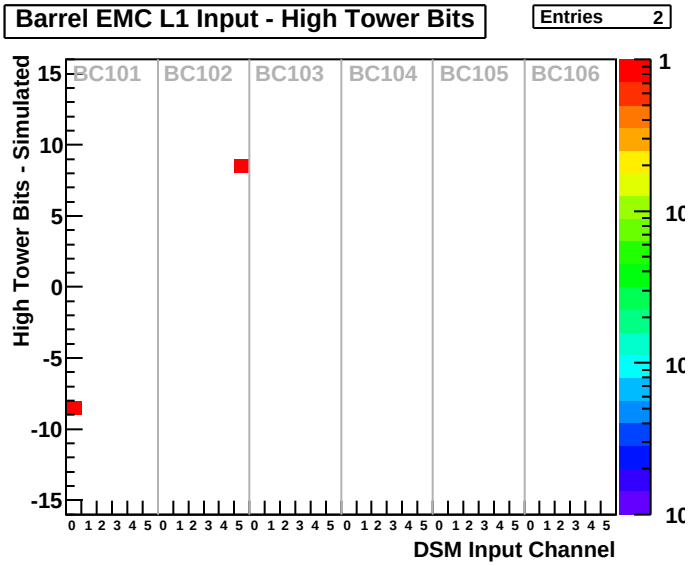

Barrel EMC L1 Input - Low Eta Sum
Entries 2.449908e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

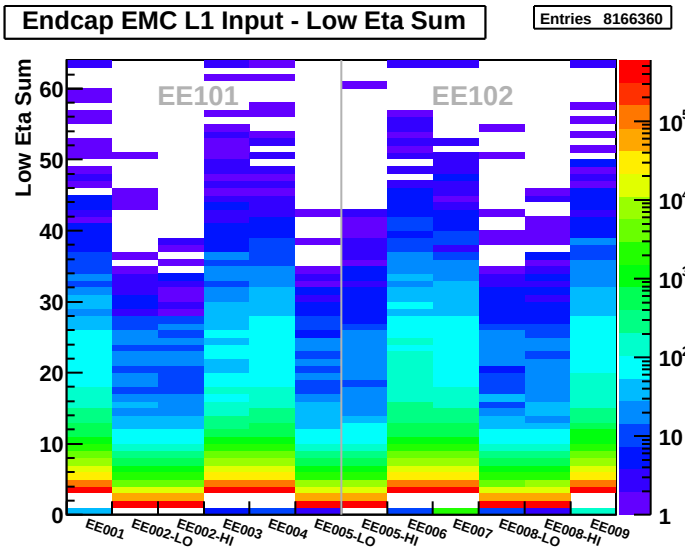

Barrel EMC L1 Input - Low Eta Sum
Entries 1439
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

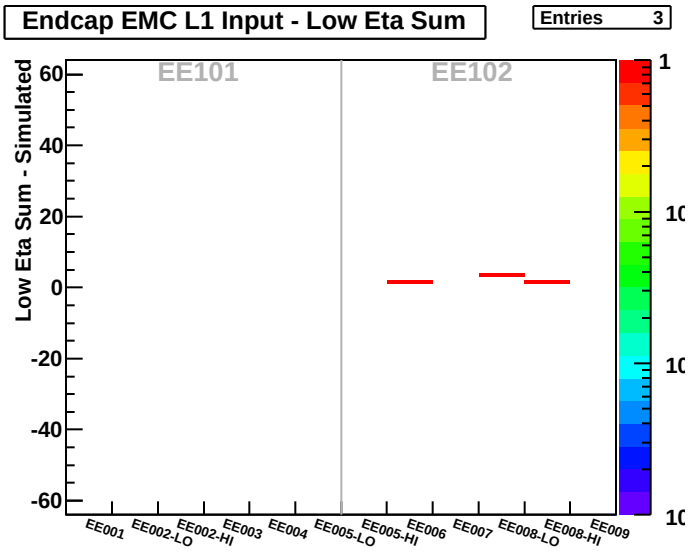

Barrel EMC L1 Input - High Eta Sum
Entries 2.449908e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

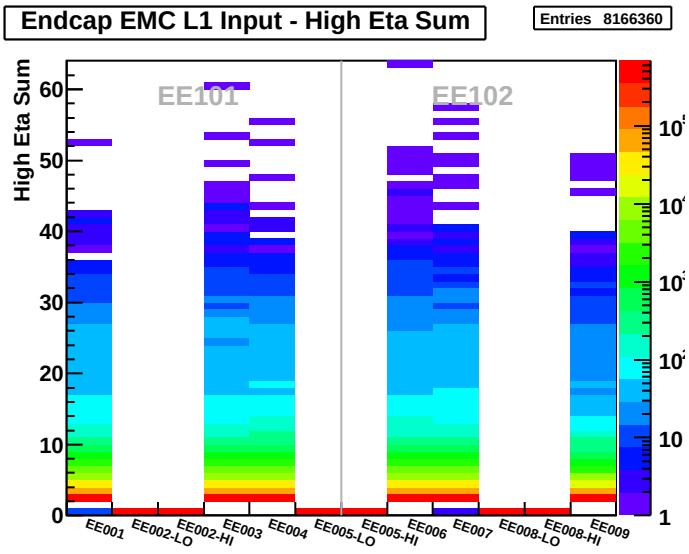

Barrel EMC L1 Input - High Eta Sum
Entries 251
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

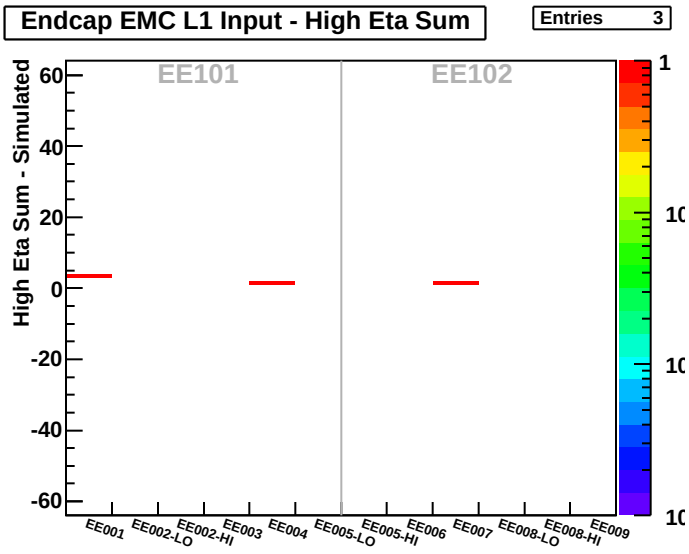

Barrel EMC L1 Input - High Tower Bits
Entries 2.449908e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

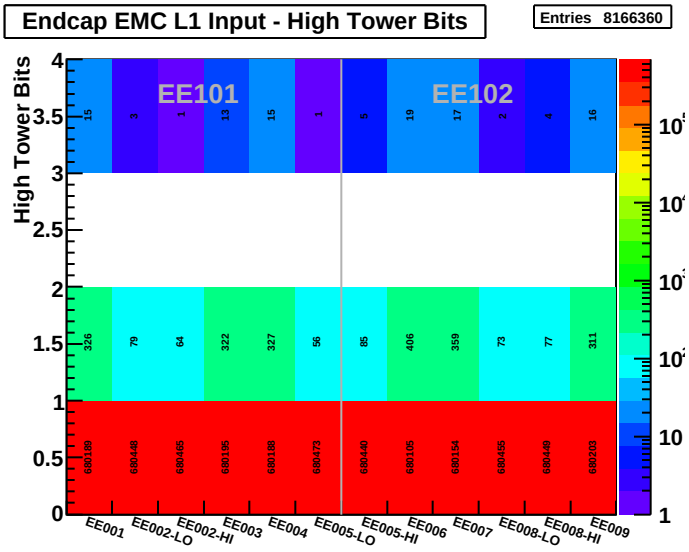

Barrel EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

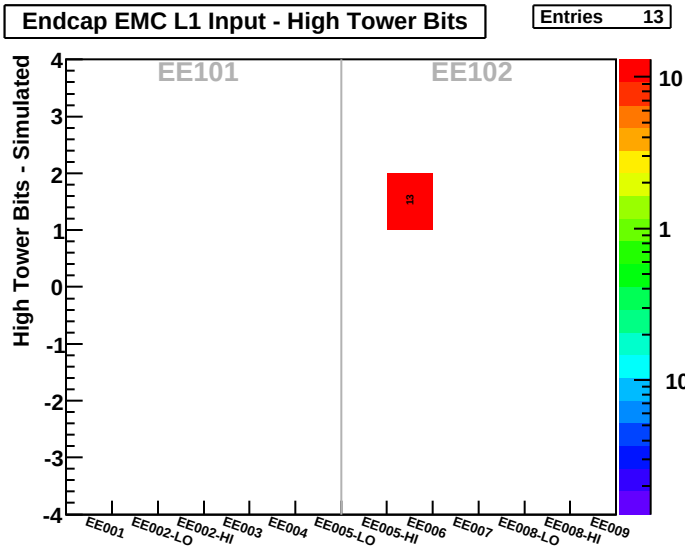

Endcap EMC L1 Input - Low Eta Sum
Entries 8166360
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

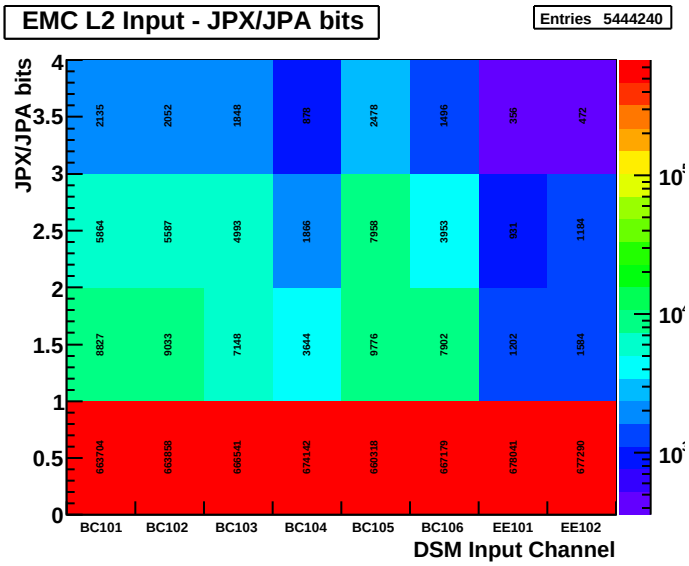

Endcap EMC L1 Input - Low Eta Sum
Entries 3
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

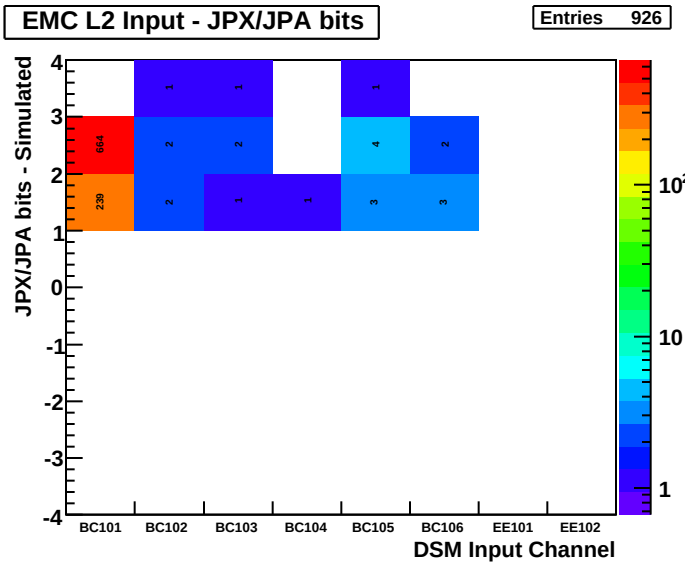

Endcap EMC L1 Input - High Eta Sum
Entries 8166360
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

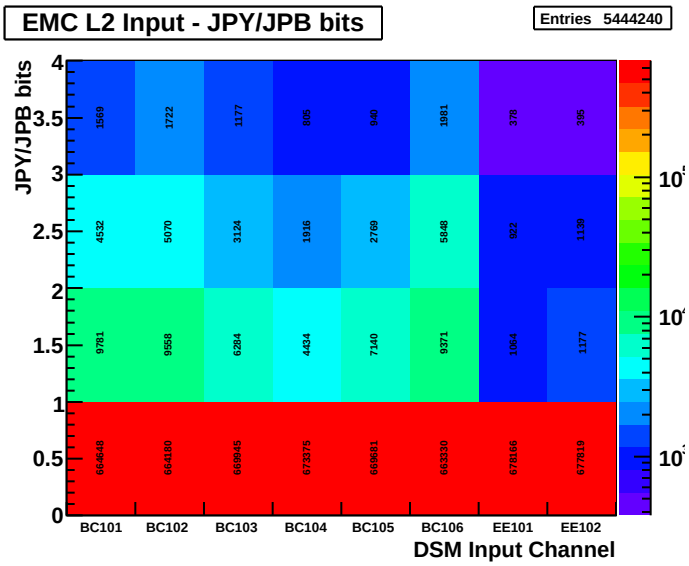

Endcap EMC L1 Input - High Eta Sum
Entries 3
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

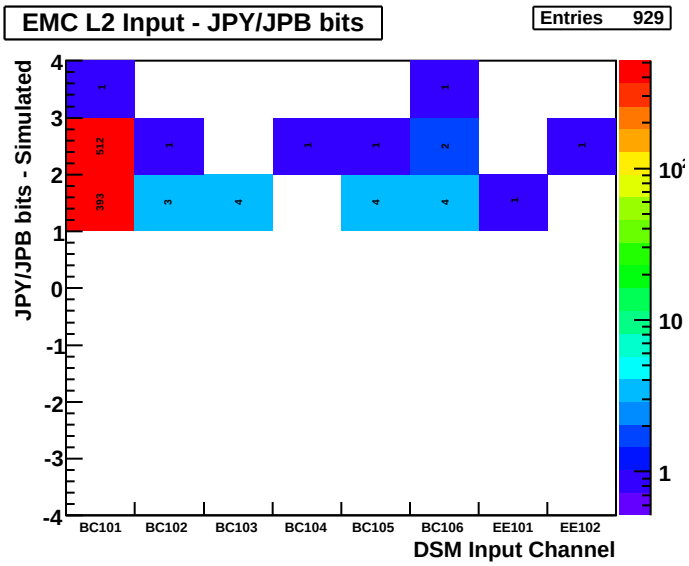

Endcap EMC L1 Input - High Tower Bits
Entries 8166360
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

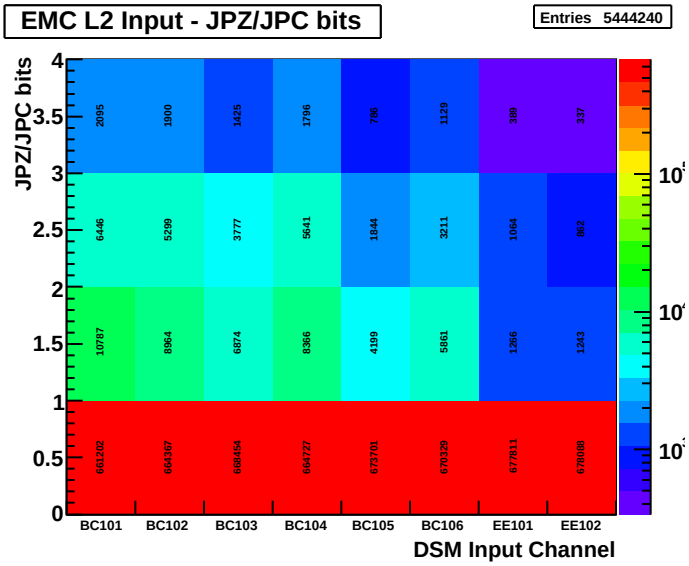

Endcap EMC L1 Input - High Tower Bits
Entries 13
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

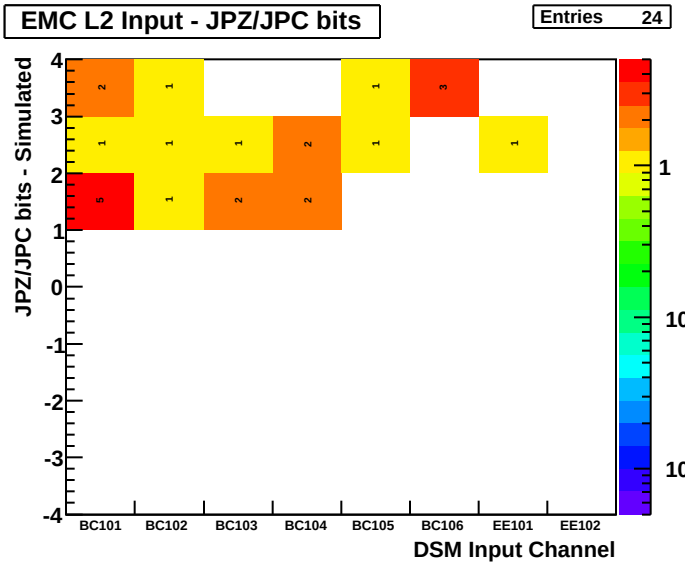

EMC L2 Input - JPX/JPA bits
Entries 5444240
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2135 2052 1848 878 2478 1496 356 472
5864 5587 4993 1866 7958 3953 931 1184
8827 9033 7148 3644 9776 7902 1202 1584
663704 663858 666541 674142 680318 667179 678041 677290

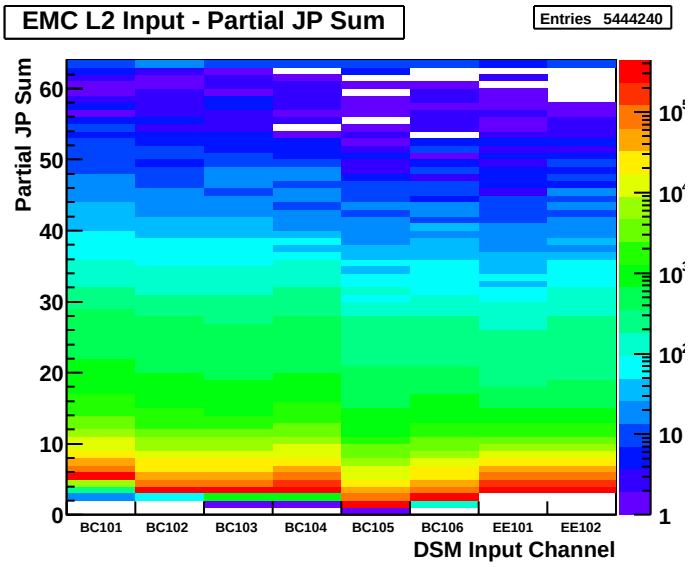

EMC L2 Input - JPX/JPA bits
Entries 926
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
664 1 1 1
239 2 2 4 2
2 1 1 3 3

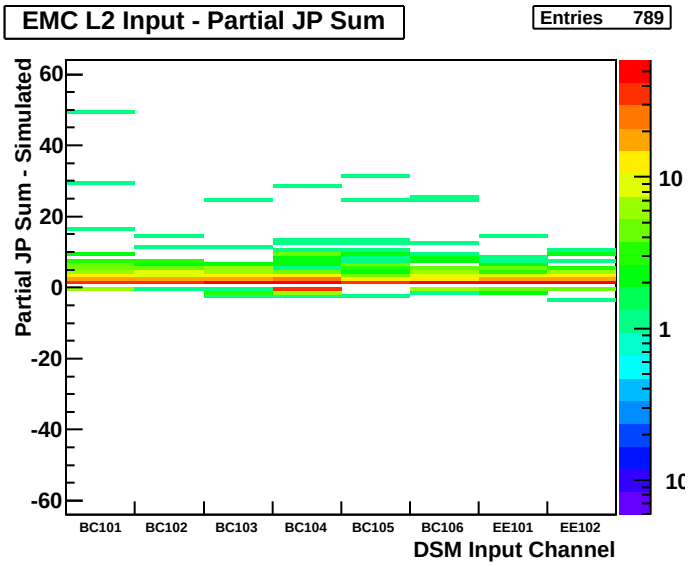

EMC L2 Input - JPY/JPB bits
Entries 5444240
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1569 1722 1177 805 940 1981 378 395
4532 5070 3124 1916 2769 5848 922 1139
9761 9558 6284 4434 7140 9371 1064 1177
664648 664180 668945 673375 669681 663330 678166 677819

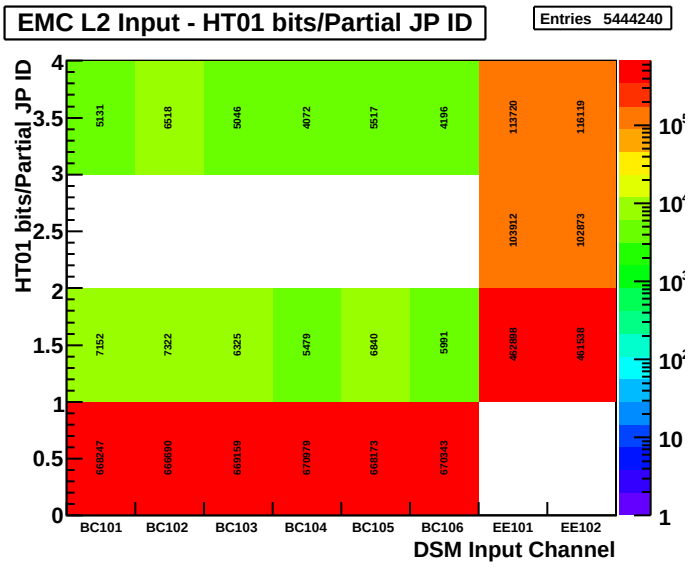

EMC L2 Input - JPY/JPB bits
Entries 929
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1
512 1 1 1 2 1
393 3 4 4 4 1

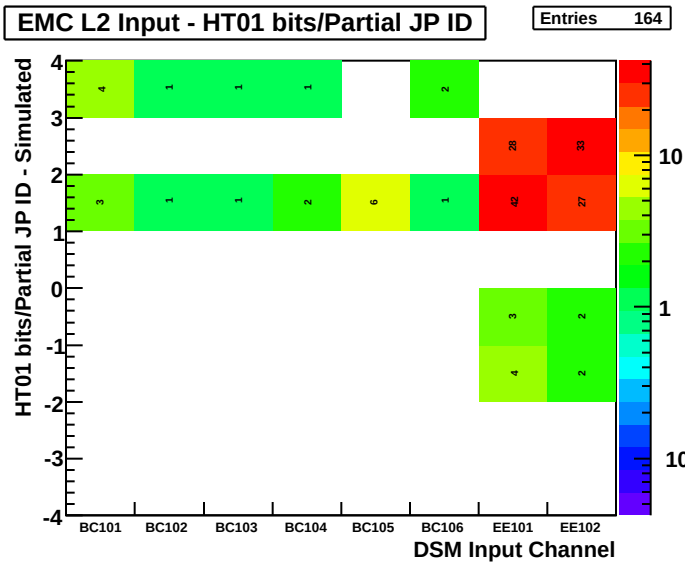

EMC L2 Input - JPZ/JPC bits
Entries 5444240
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2095 1900 1425 1706 766 1129 389 337
6446 5299 3777 5641 1844 3211 1064 862
10787 8964 6874 8366 4199 5861 1266 1243
661202 664367 668454 664727 673701 670329 677811 678088

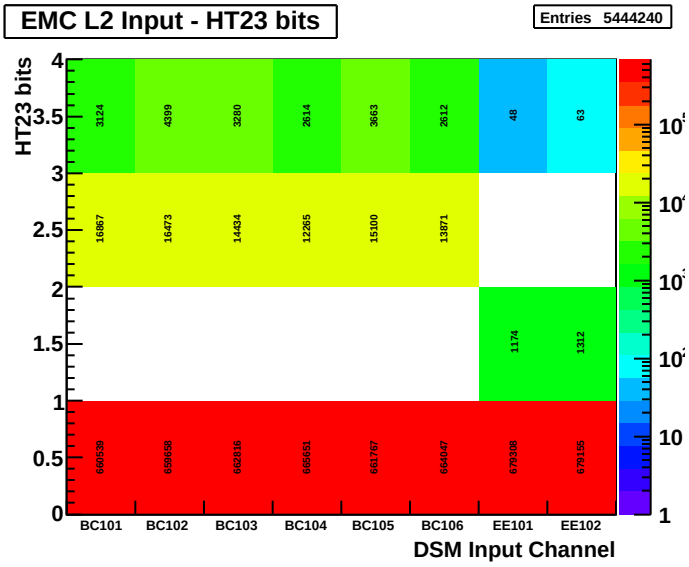

EMC L2 Input - JPZ/JPC bits
Entries 24
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1 1 3
1 1 1 2 1 1
5 1 2 2

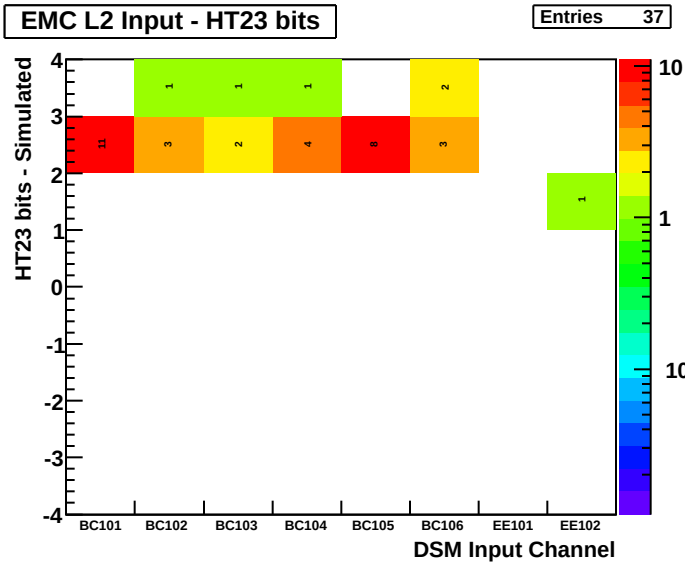

EMC L2 Input - Partial JP Sum
Entries 5444240
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

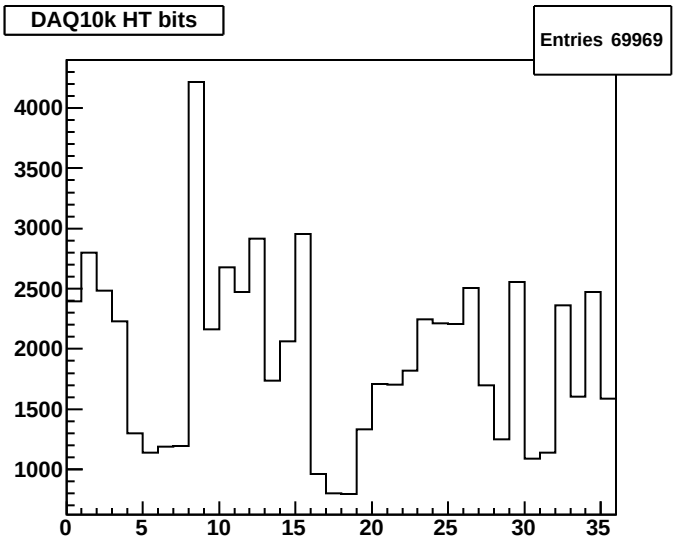

EMC L2 Input - Partial JP Sum
Entries 789
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

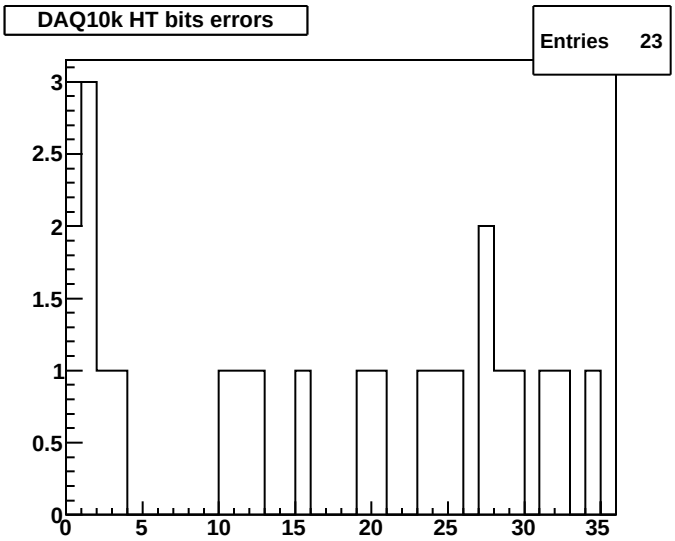

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5444240
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

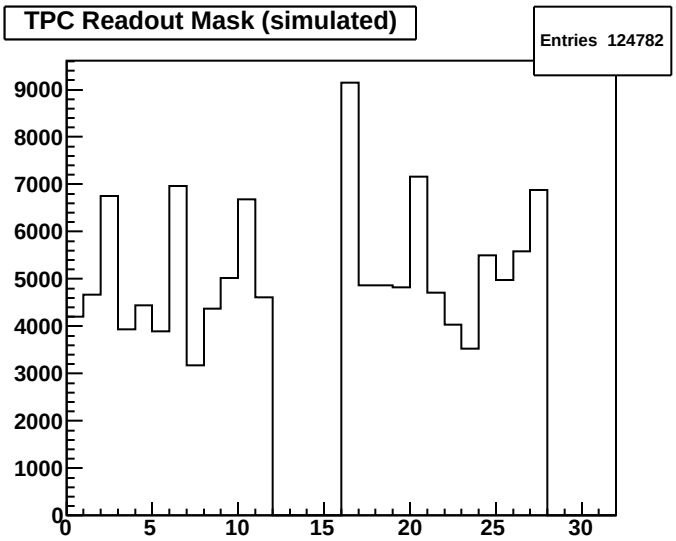

EMC L2 Input - HT01 bits/Partial JP ID
Entries 164
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

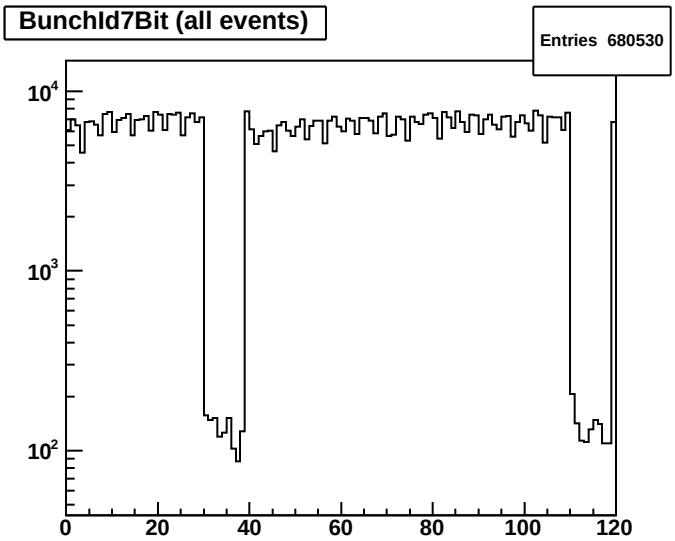

EMC L2 Input - HT23 bits
Entries 5444240
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

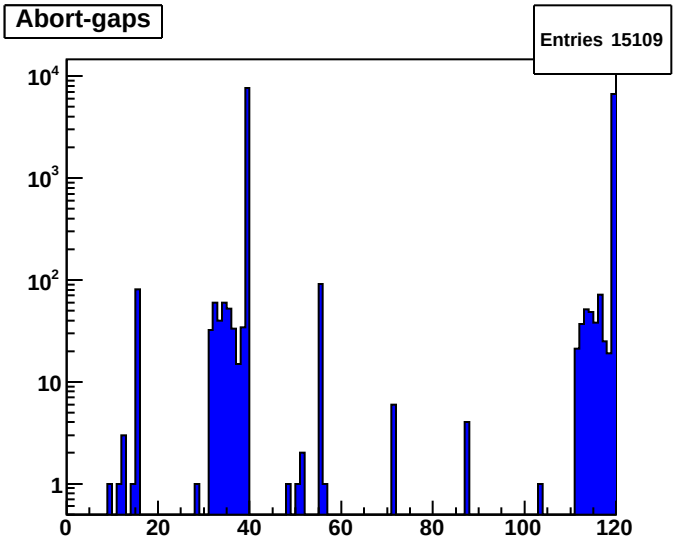

EMC L2 Input - HT23 bits
Entries 37
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

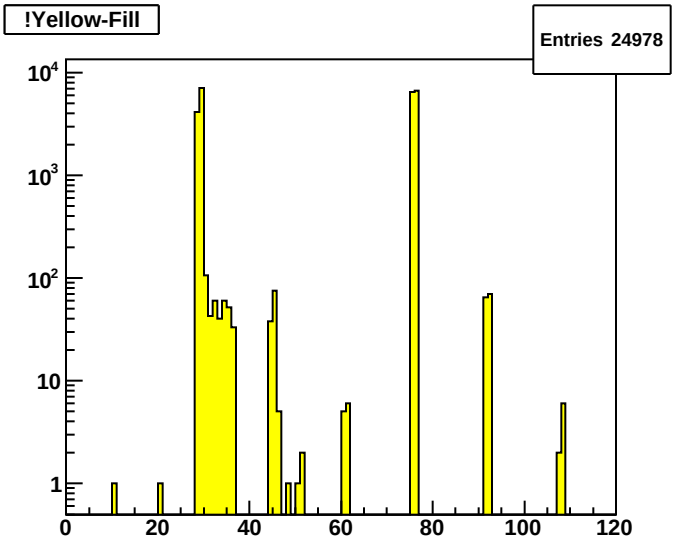

DAQ10k HT bits
Entries 69969

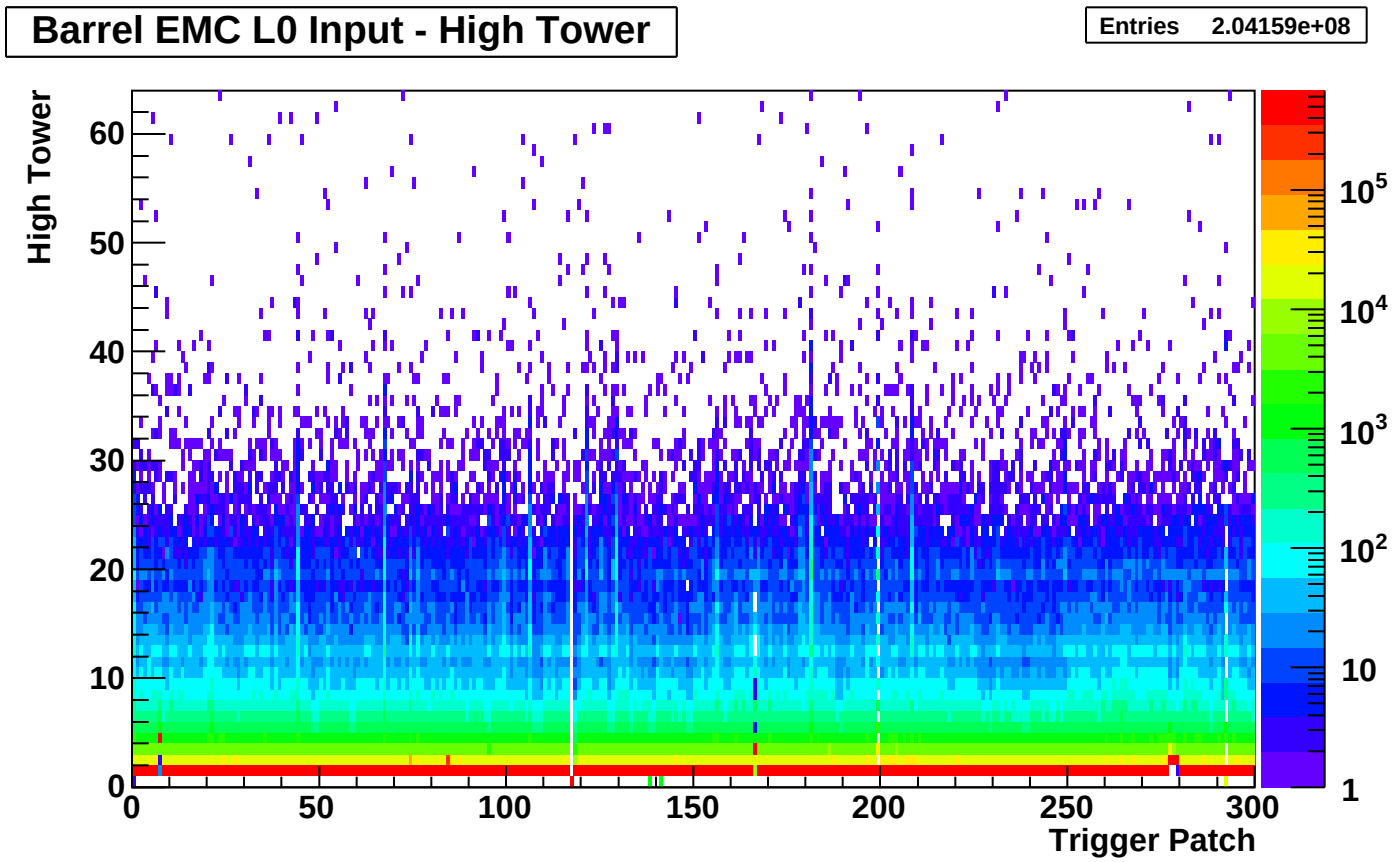

DAQ10k HT bits errors
Entries 23

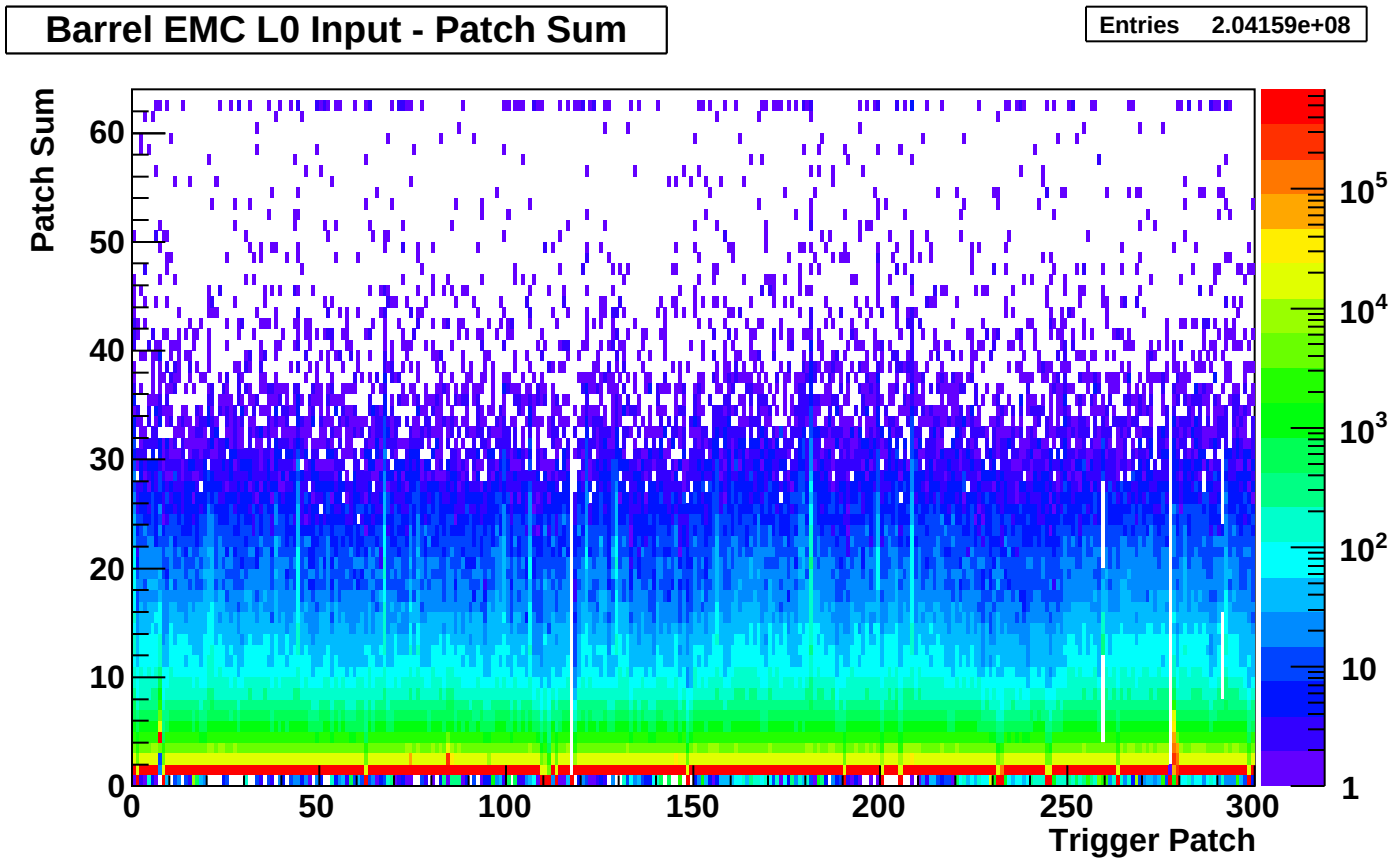

TPC Readout Mask (simulated)
Entries 124782

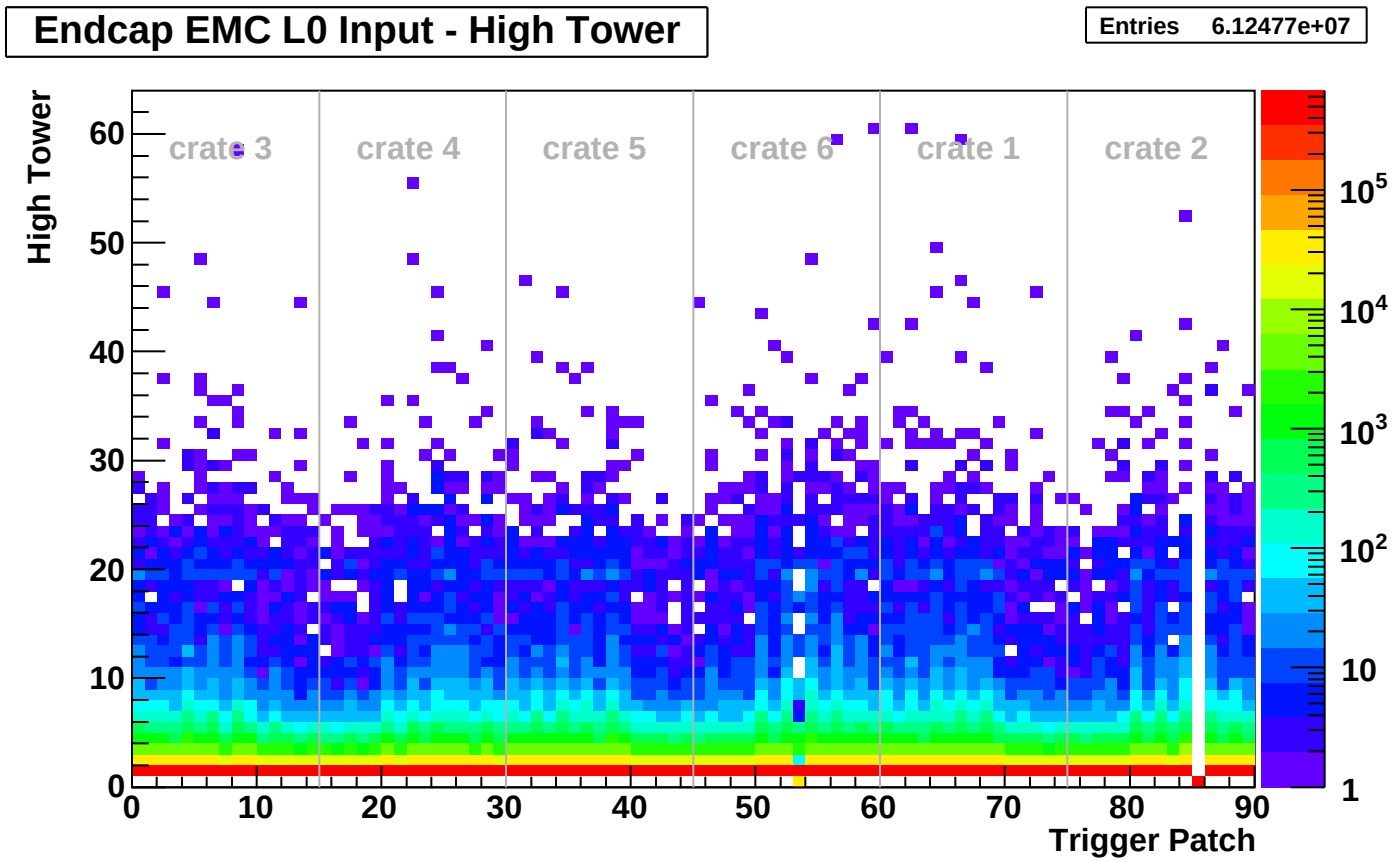

BunchId7Bit (all events)
Entries 680530

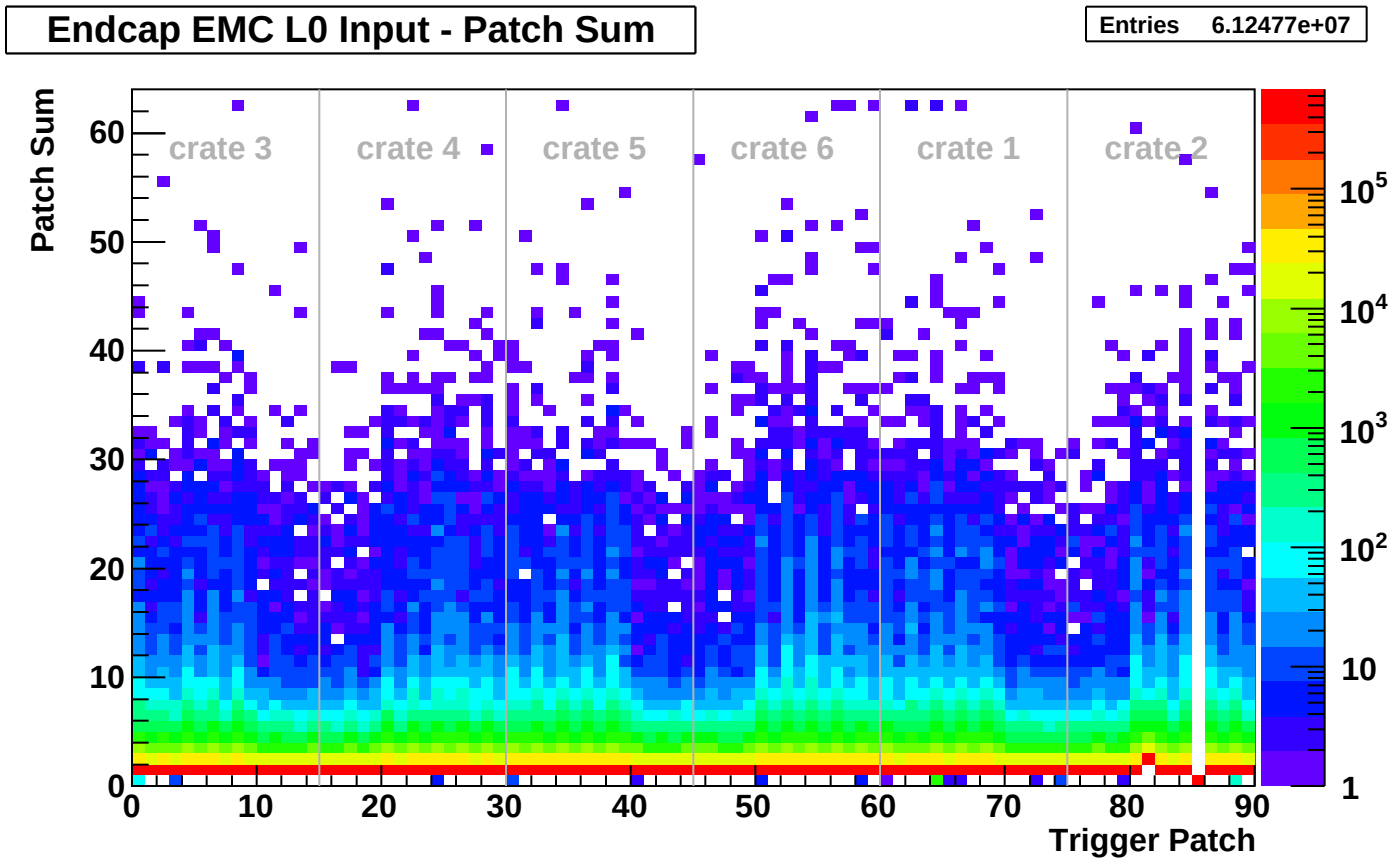

Abort-gaps
Entries 15109

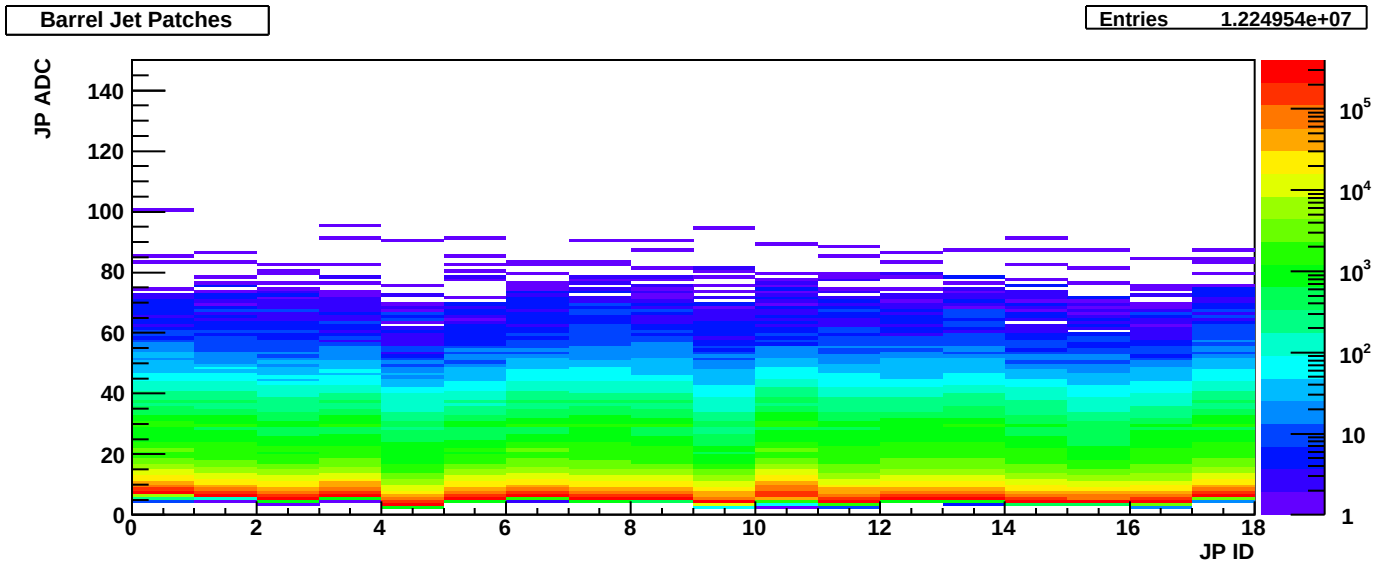

!Yellow-Fill
Entries 24978

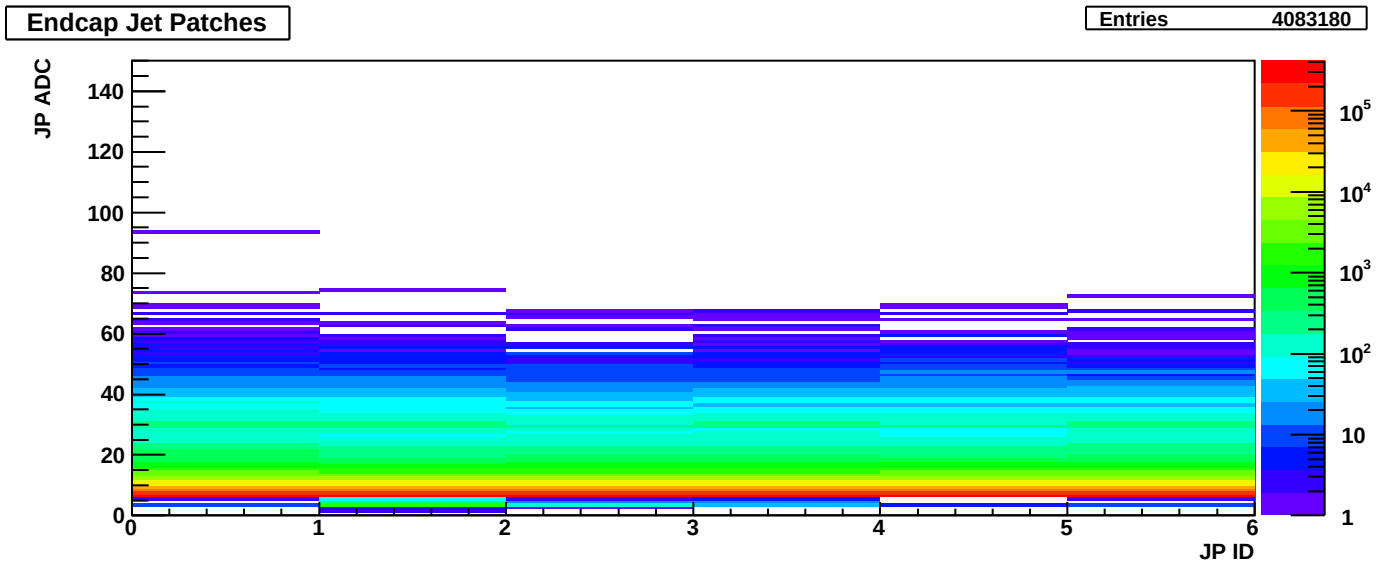

Barrel EMC L0 Input - High Tower
Entries 2.04159e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

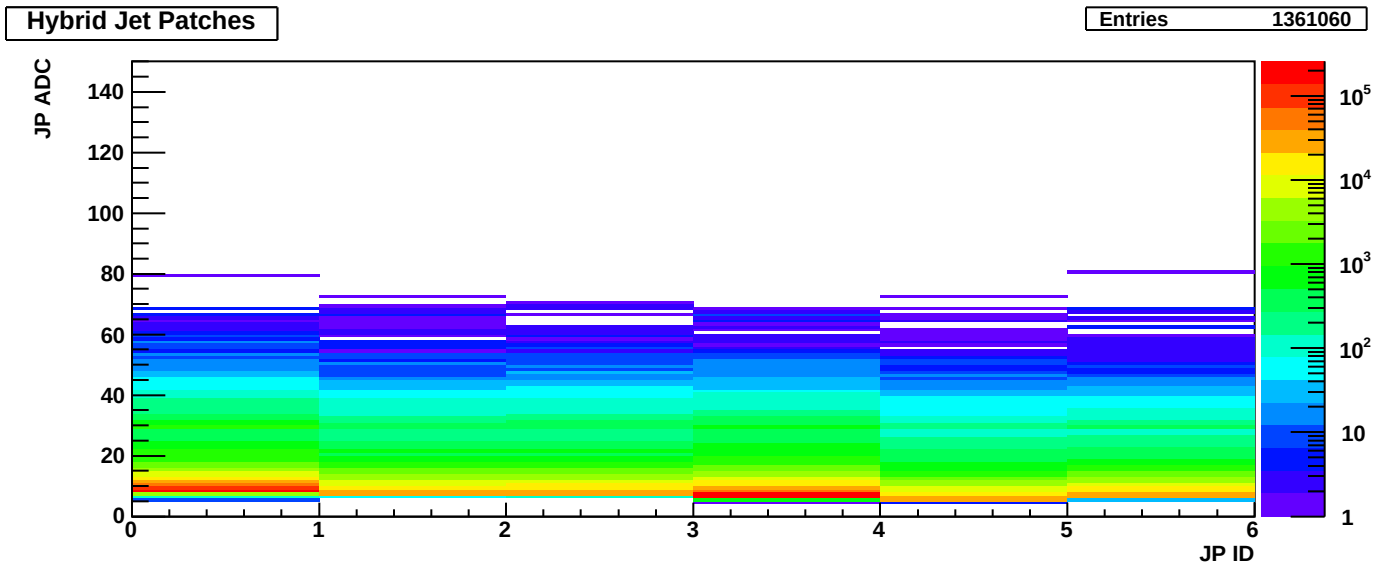

Barrel EMC L0 Input - Patch Sum
Entries 2.04159e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

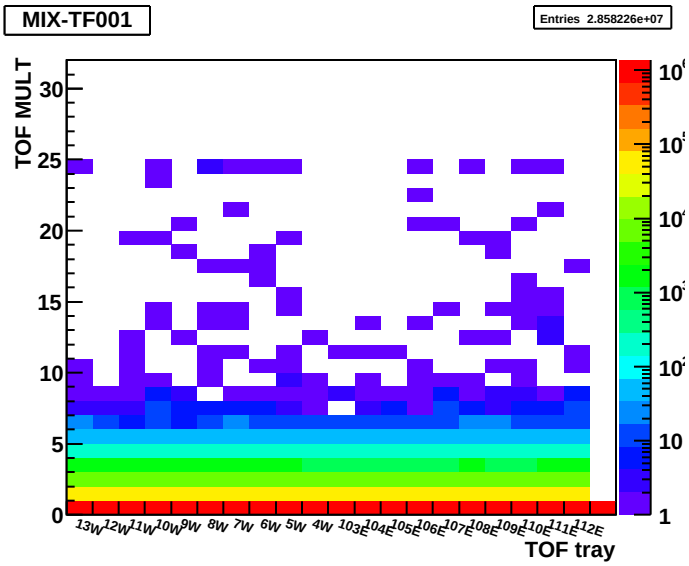

Endcap EMC L0 Input - High Tower
Entries 6.12477e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

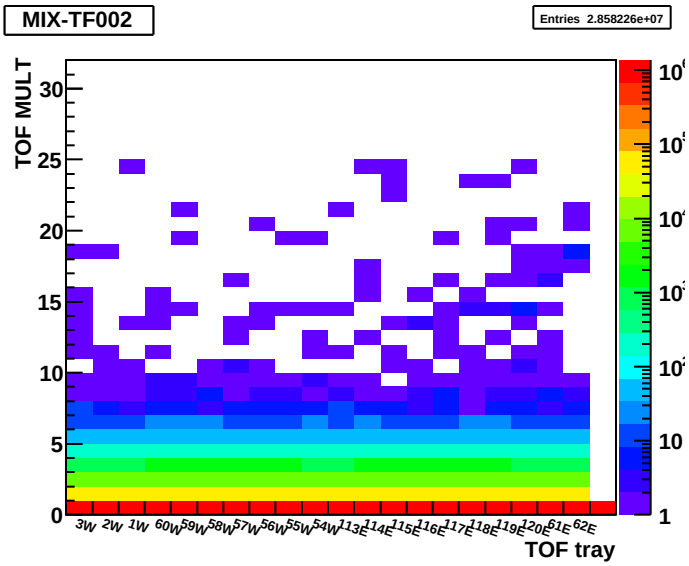

Endcap EMC L0 Input - Patch Sum
Entries 6.12477e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

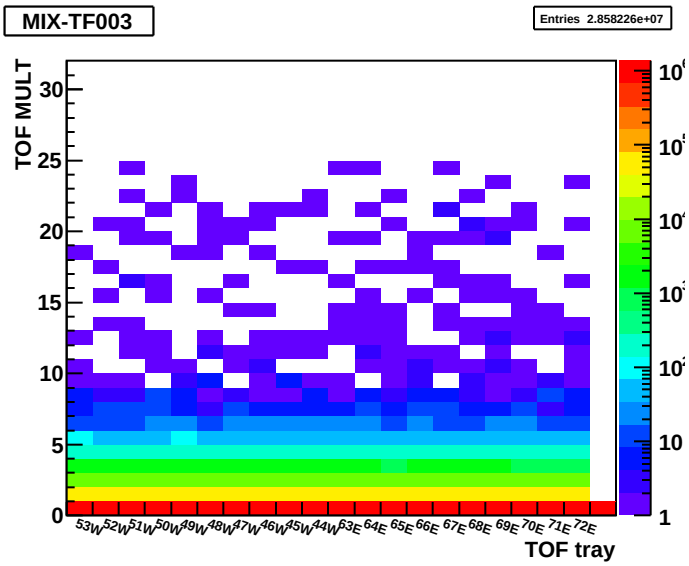

Barrel Jet Patches
Entries 1.224954e+07
JP ADC
JP ID

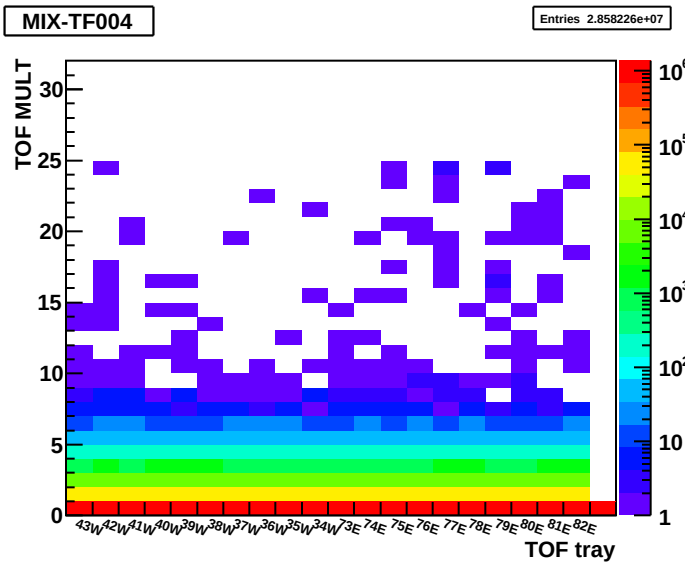

Endcap Jet Patches
Entries 4083180
JP ADC
JP ID

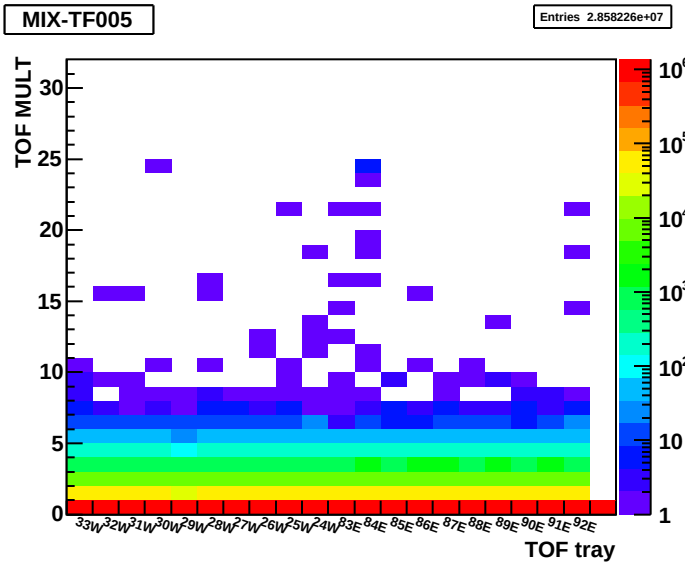

Hybrid Jet Patches
Entries 1361060
JP ADC
JP ID

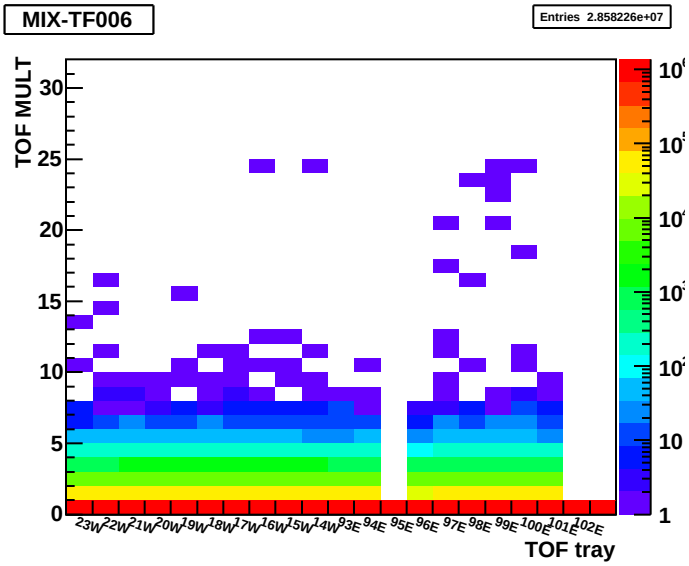

MIX-TF001
Entries 2.858226e+07
TOF MULT
TOF tray

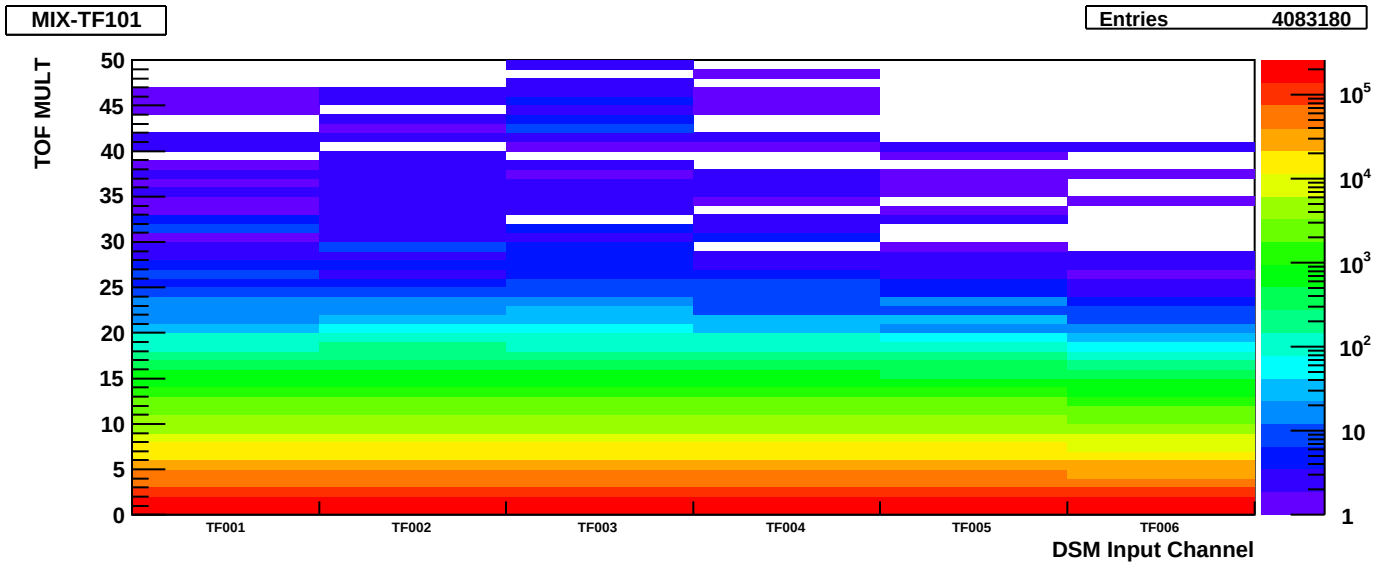

MIX-TF002
Entries 2.858226e+07
TOF MULT
TOF tray

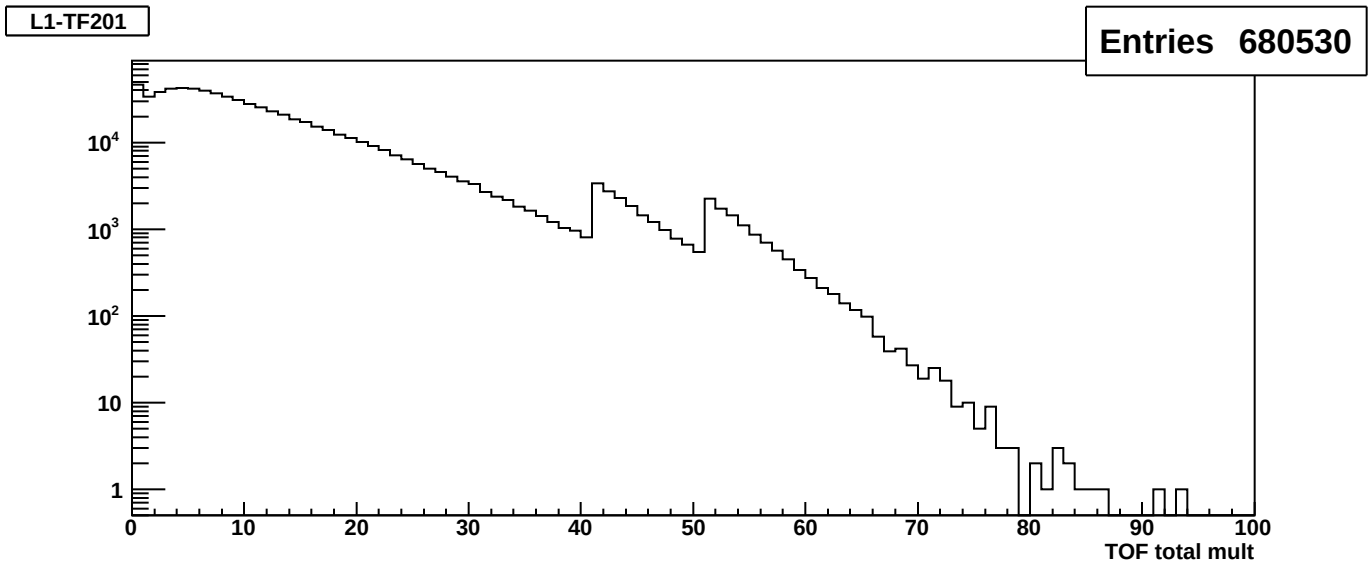

MIX-TF003
Entries 2.858226e+07
TOF MULT
TOF tray

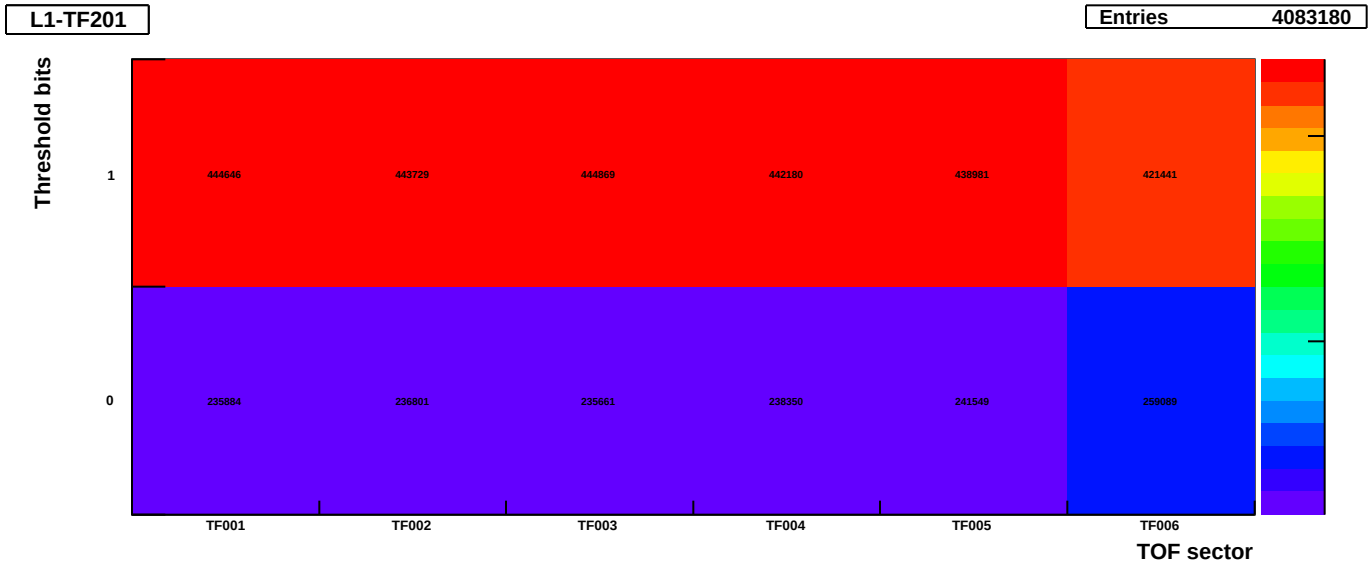

MIX-TF004
Entries 2.858226e+07
TOF MULT
TOF tray

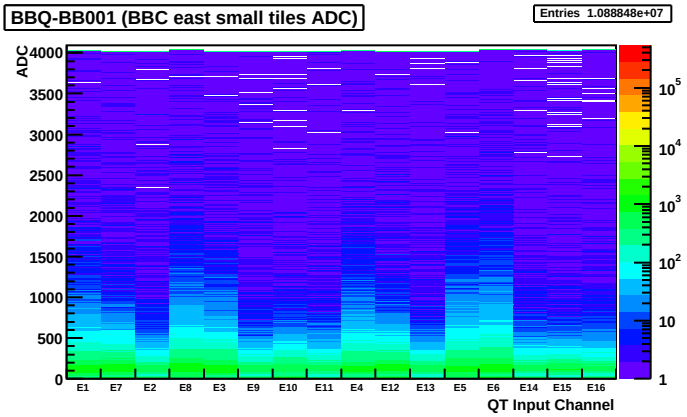

MIX-TF005
Entries 2.858226e+07
TOF MULT
TOF tray

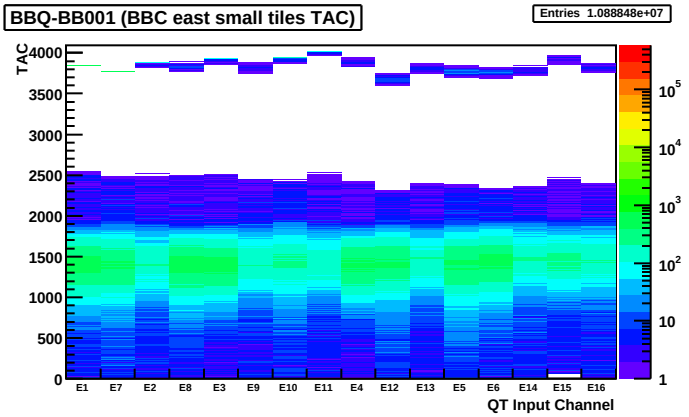

MIX-TF006
Entries 2.858226e+07
TOF MULT
TOF tray

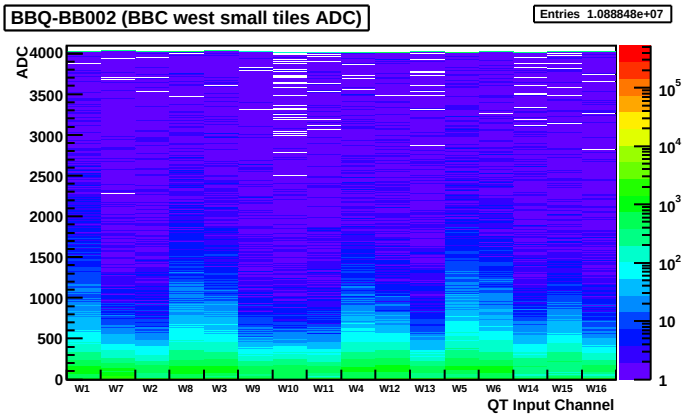

MIX-TF101
Entries 4083180
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

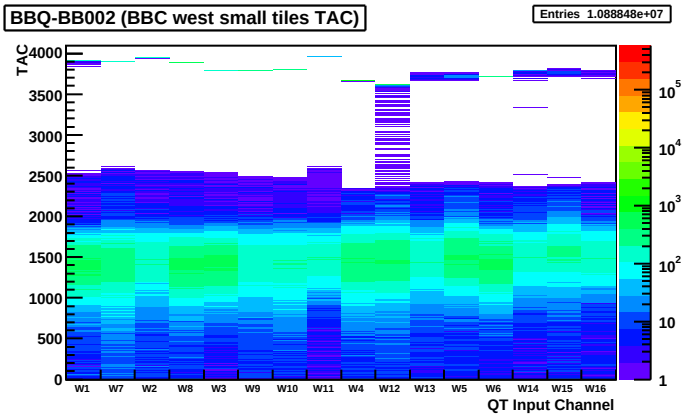

L1-TF201
Entries 680530
TOF total mult

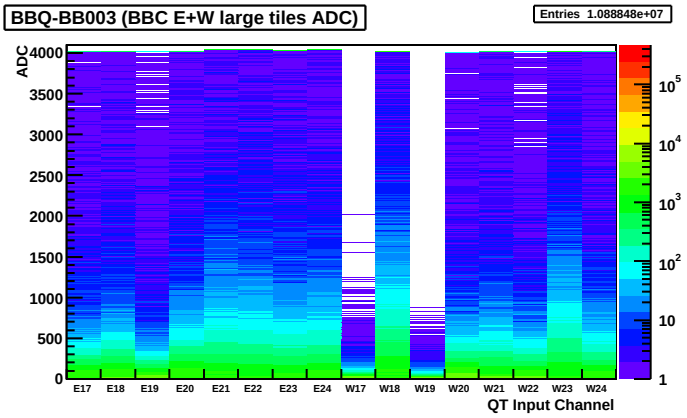

L1-TF201
Entries 4083180
Threshold bits
444646
443729
444869
442180
438981
421441
235884
236801
235661
238350
241549
259089
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

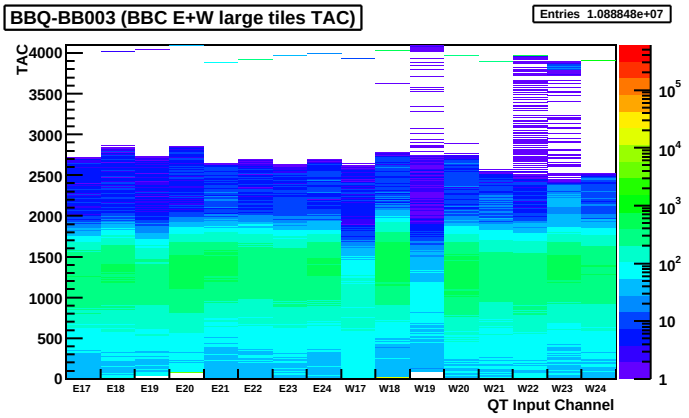

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.088848e+07
ADC
QT Input Channel

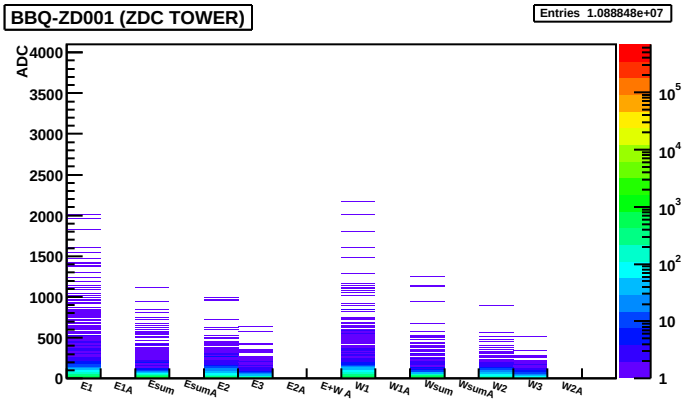

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.088848e+07
TAC
QT Input Channel

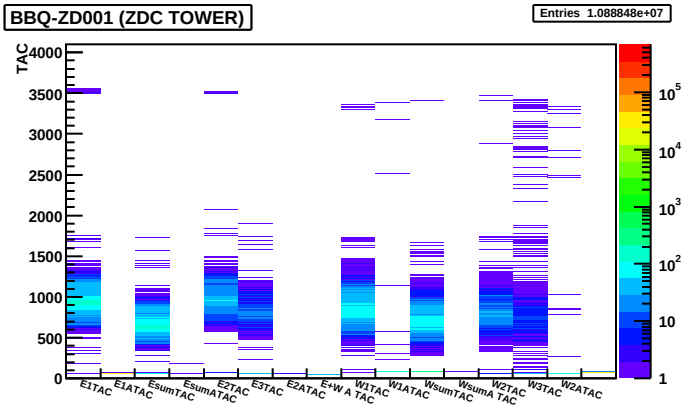

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.088848e+07
ADC
QT Input Channel

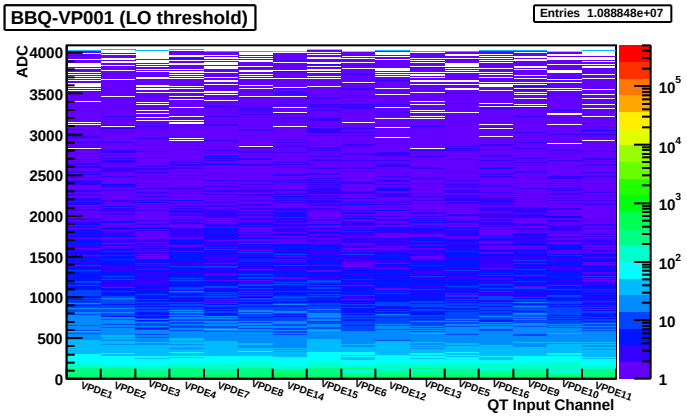

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.088848e+07
TAC
QT Input Channel

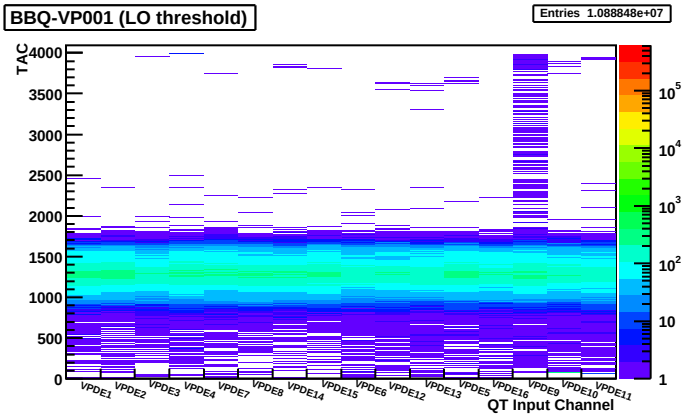

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.088848e+07
ADC
QT Input Channel

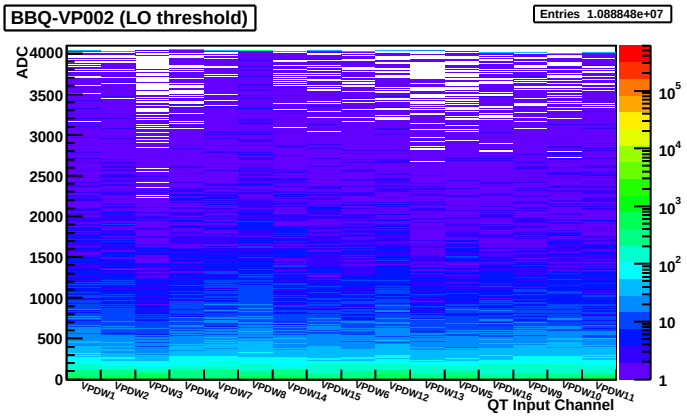

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.088848e+07
TAC
QT Input Channel

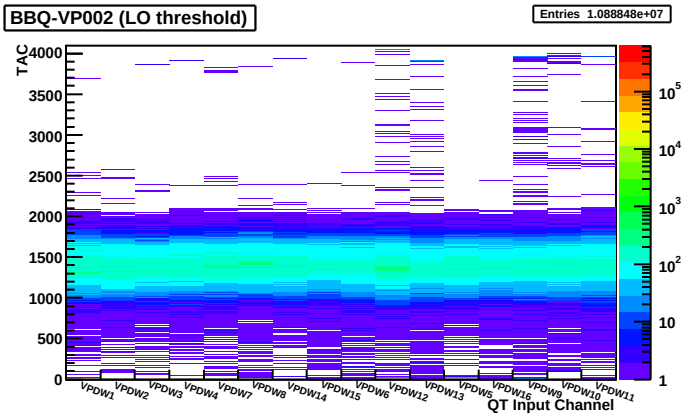

BBQ-ZD001 (ZDC TOWER)
Entries 1.088848e+07
ADC

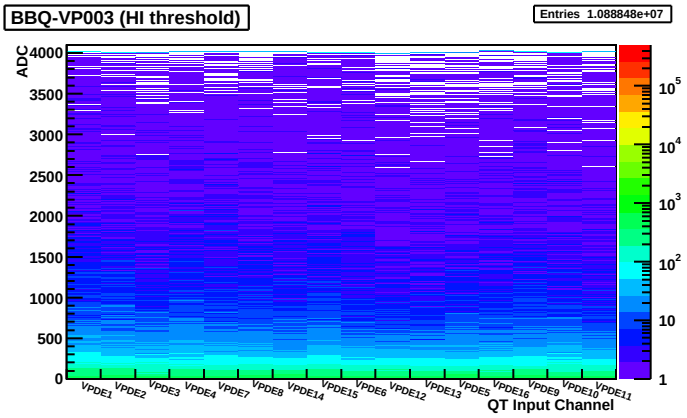

BBQ-ZD001 (ZDC TOWER)
Entries 1.088848e+07
TAC

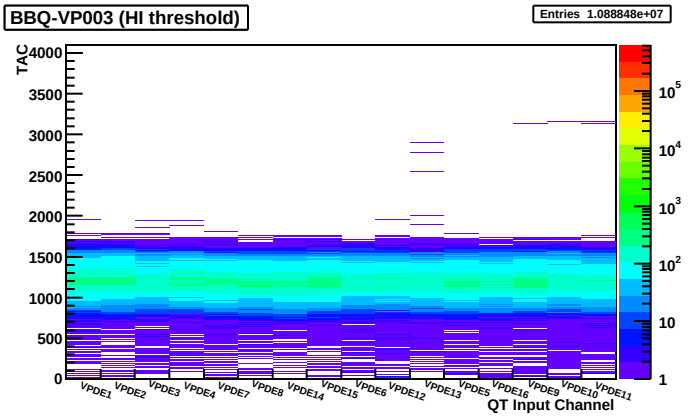

BBQ-VP001 (LO threshold)
Entries 1.088848e+07
ADC
QT Input Channel

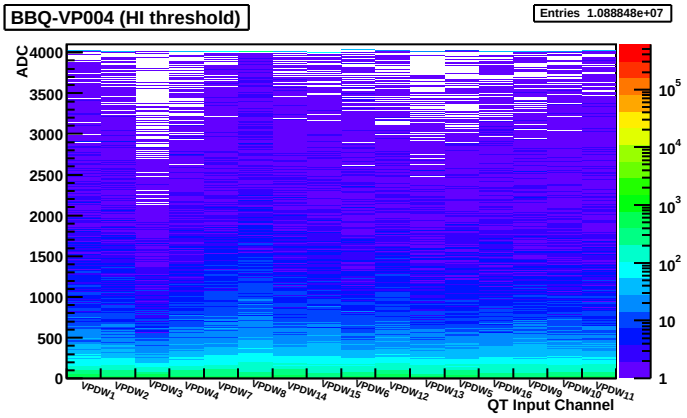

BBQ-VP001 (LO threshold)
Entries 1.088848e+07
TAC
QT Input Channel

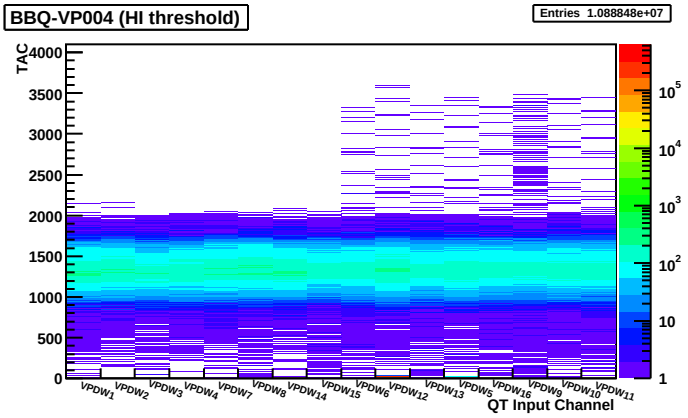

BBQ-VP002 (LO threshold)
Entries 1.088848e+07
ADC
QT Input Channel

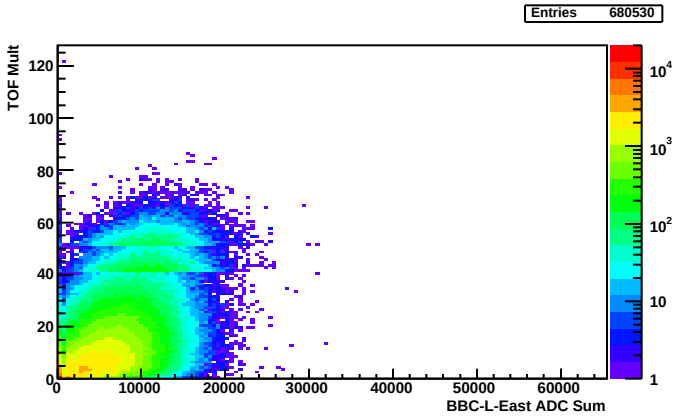

BBQ-VP002 (LO threshold)
Entries 1.088848e+07
TAC
QT Input Channel

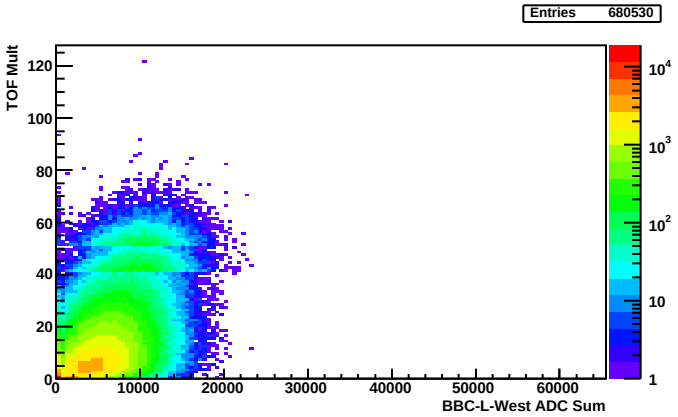

BBQ-VP003 (HI threshold)
Entries 1.088848e+07
ADC
QT Input Channel

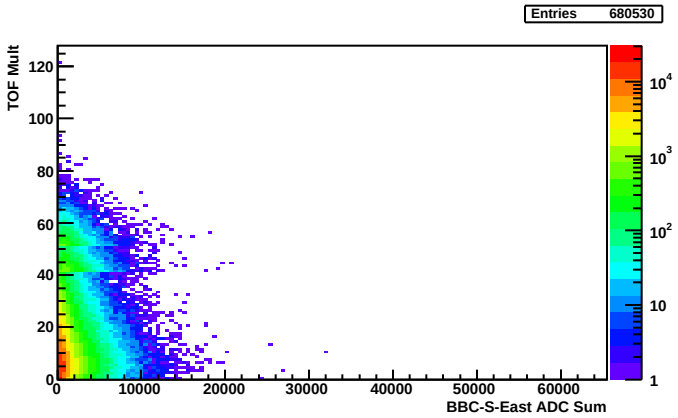

BBQ-VP003 (HI threshold)
Entries 1.088848e+07
TAC
QT Input Channel

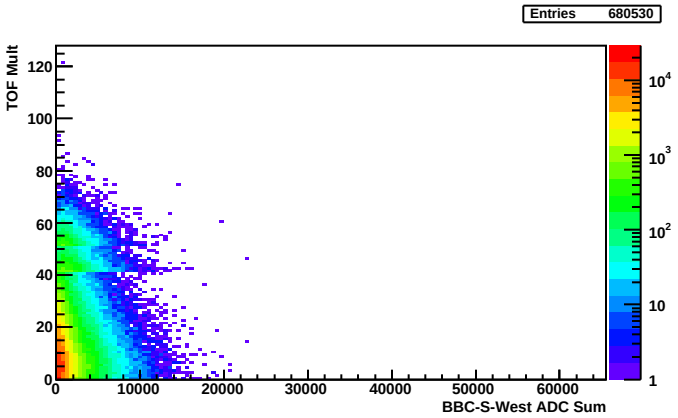

BBQ-VP004 (HI threshold)
Entries 1.088848e+07
ADC
QT Input Channel

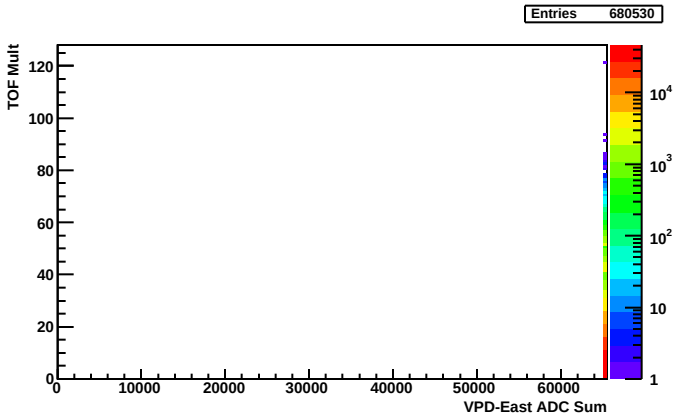

BBQ-VP004 (HI threshold)
Entries 1.088848e+07
TAC
QT Input Channel

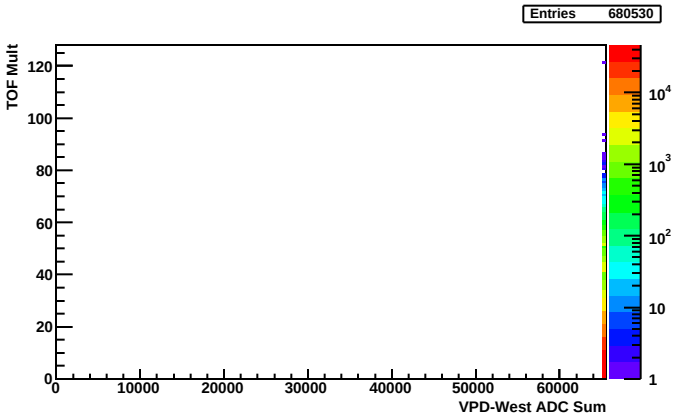

Entries 680530
TOF Mult
BBC-L-East ADC Sum

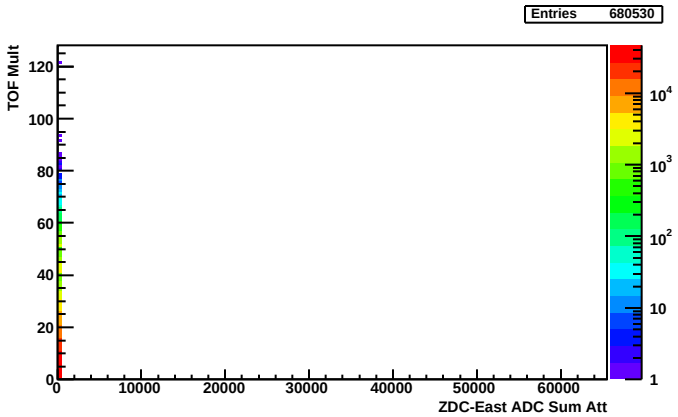

Entries 680530
TOF Mult
BBC-L-West ADC Sum

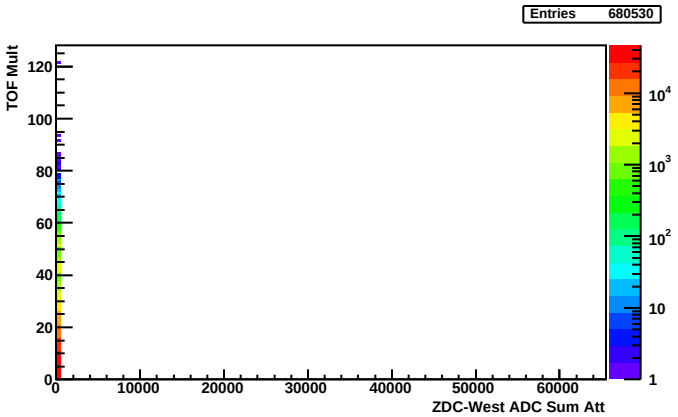

Entries 680530
TOF Mult
BBC-S-East ADC Sum

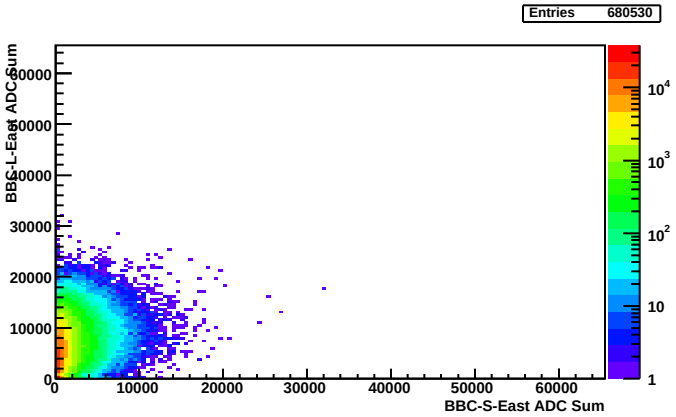

Entries 680530
TOF Mult
BBC-S-West ADC Sum

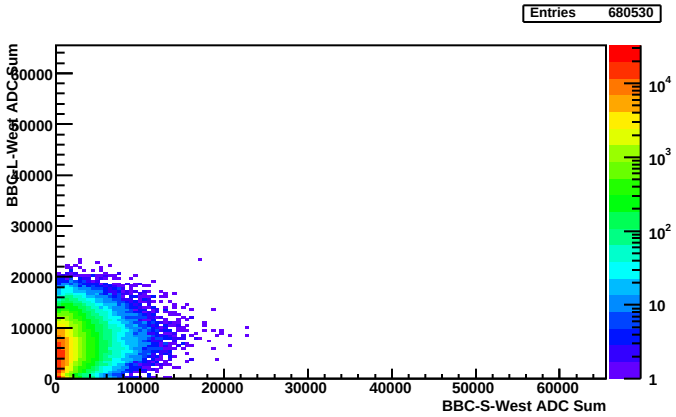

Entries 680530
TOF Mult
VPD-East ADC Sum

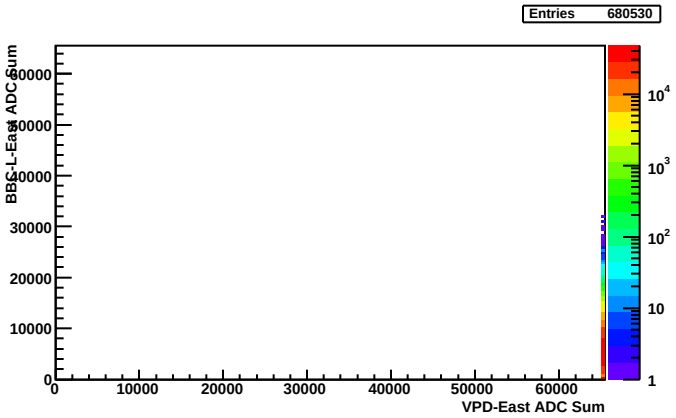

Entries 680530
TOF Mult
VPD-West ADC Sum

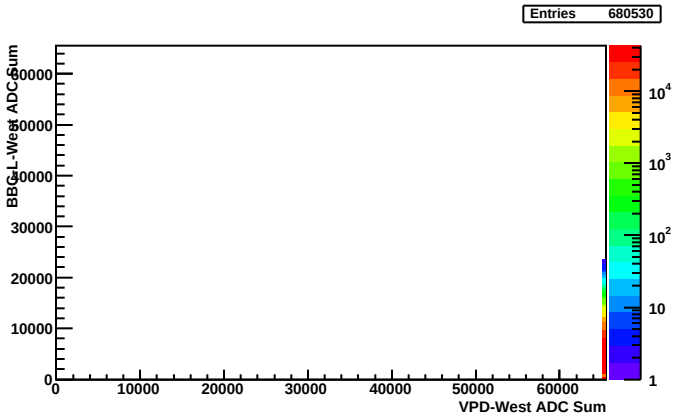

Entries 680530
TOF Mult
ZDC-East ADC Sum Att

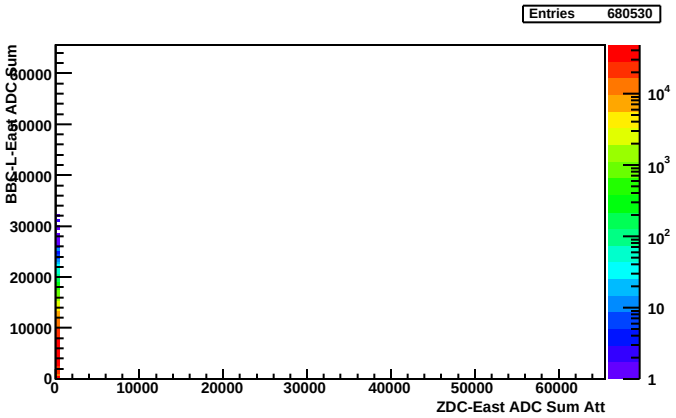

Entries 680530
TOF Mult
ZDC-West ADC Sum Att

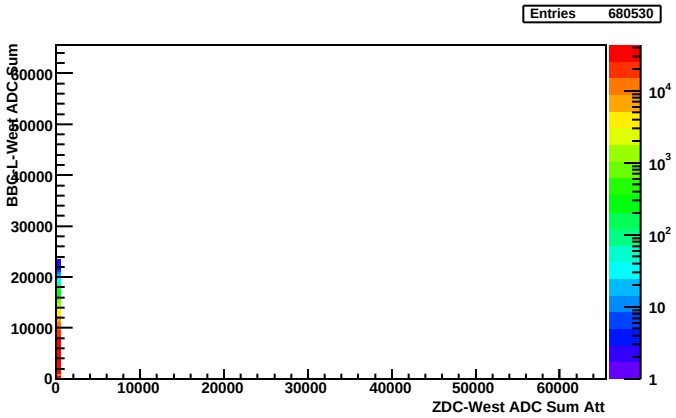

Entries 680530
BBC-L-East ADC Sum
BBC-S-East ADC Sum

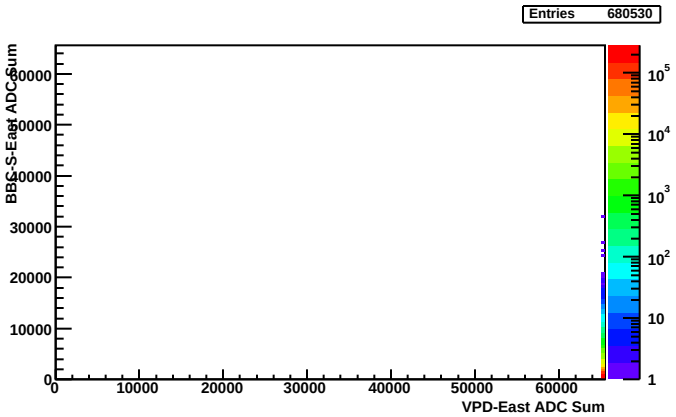

Entries 680530
BBC-L-West ADC Sum
BBC-S-West ADC Sum

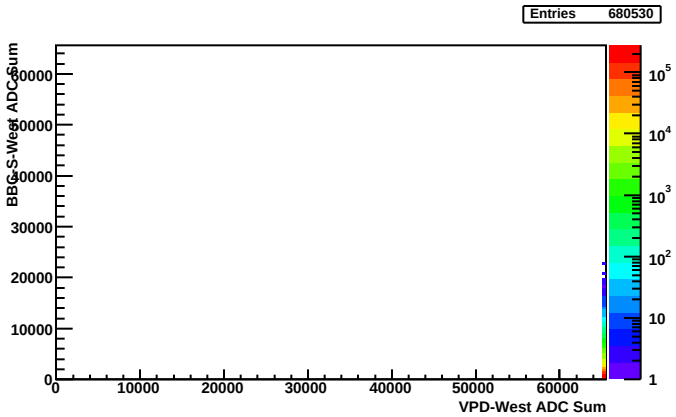

Entries 680530
BBC-L-East ADC Sum
VPD-East ADC Sum

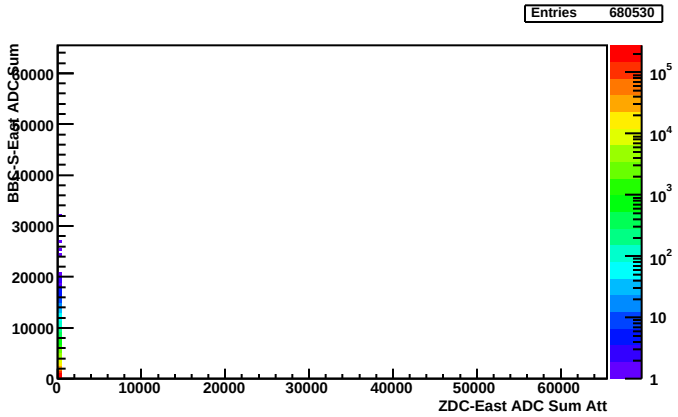

Entries 680530
BBC-L-West ADC Sum
VPD-West ADC Sum

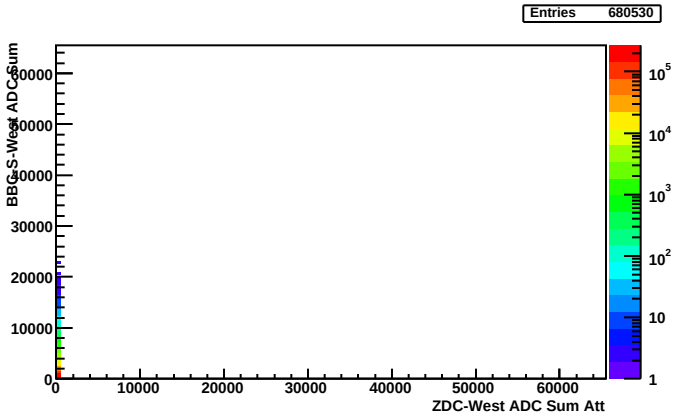

Entries 680530
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

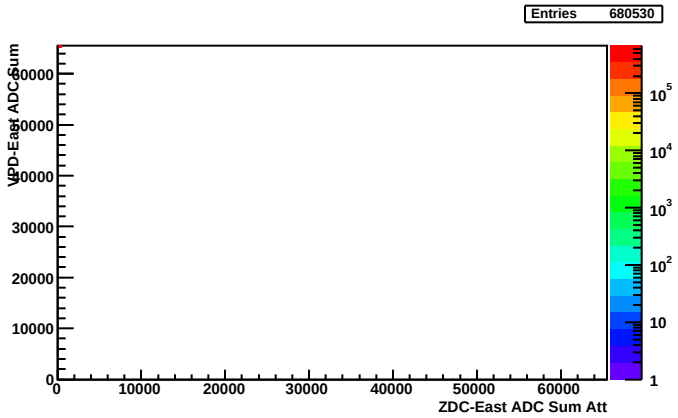

Entries 680530
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

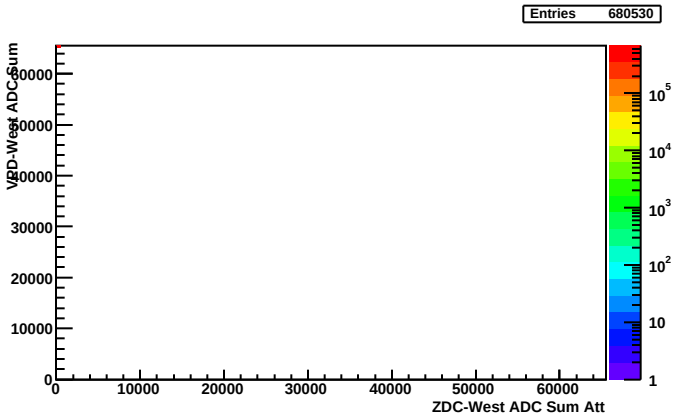

Entries 680530
BBC-S-East ADC Sum
VPD-East ADC Sum

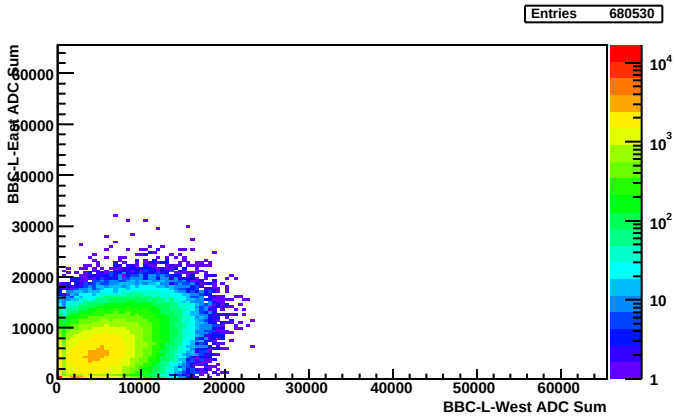

Entries 680530
BBC-S-West ADC Sum
VPD-West ADC Sum

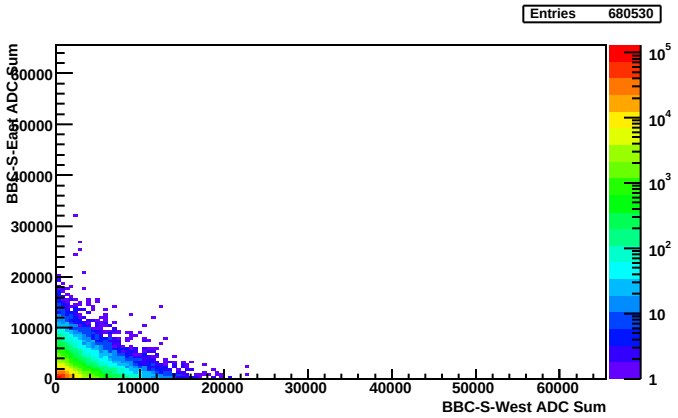

Entries 680530
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

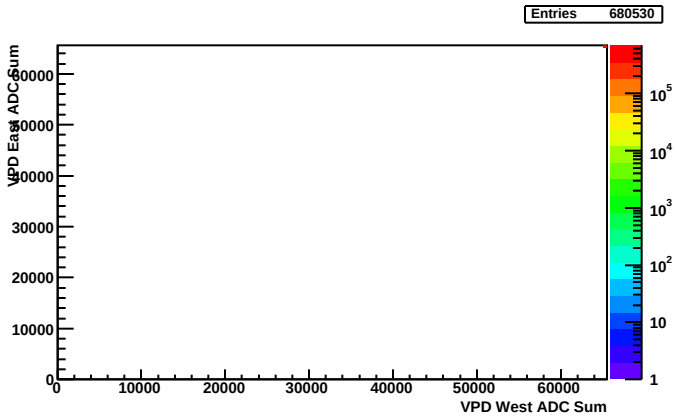

Entries 680530
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

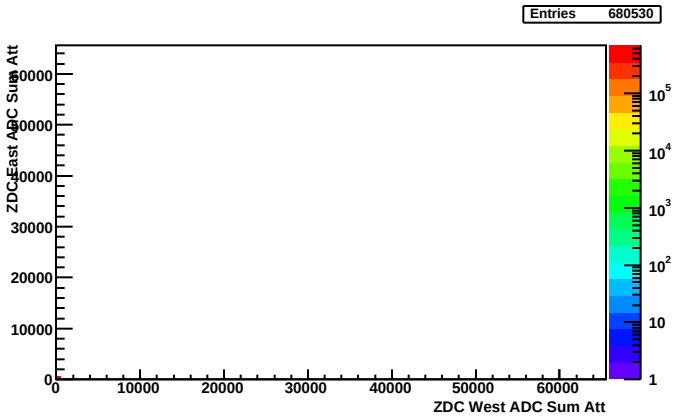

Entries 680530
VPD-East ADC Sum
ZDC-East ADC Sum Att

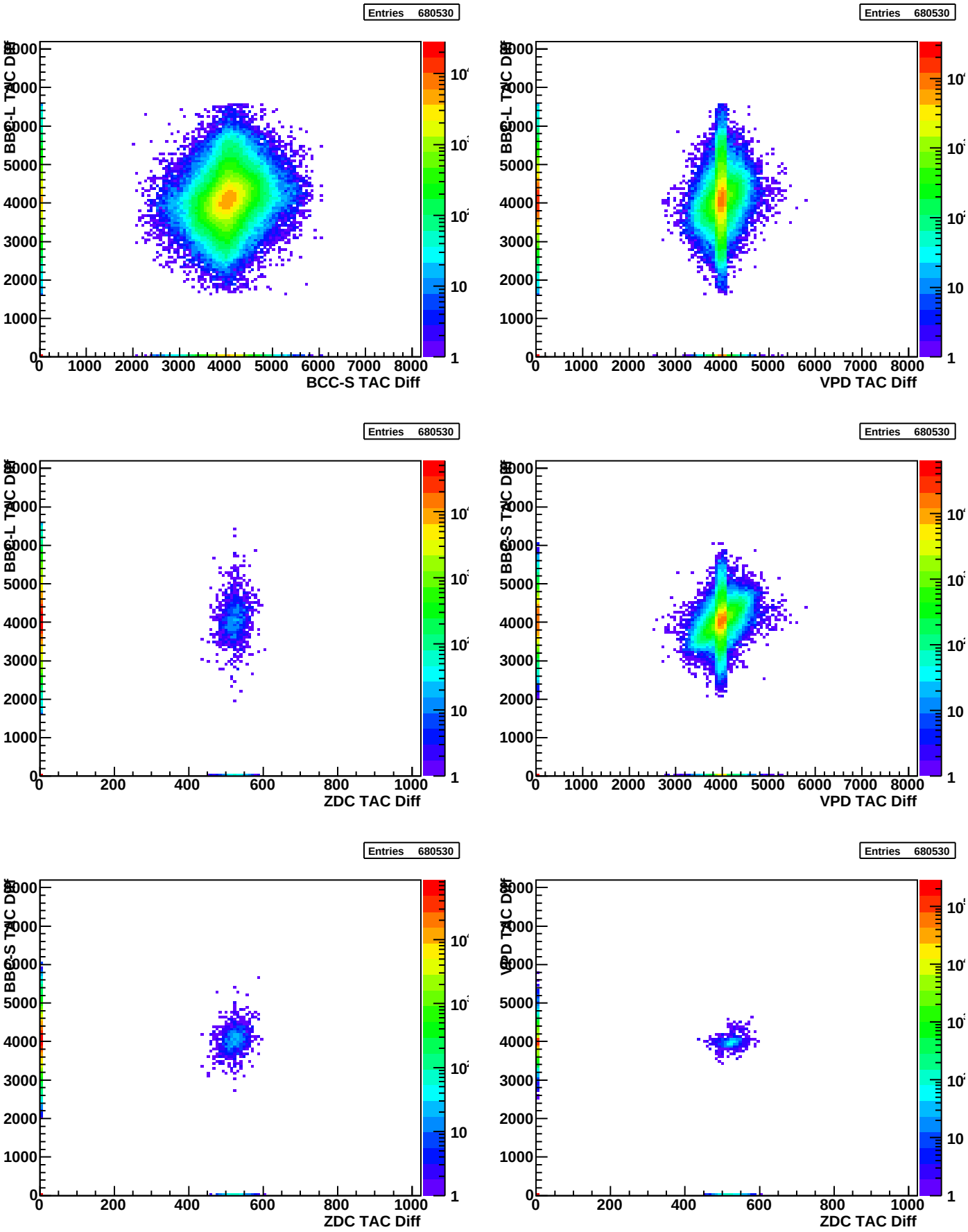

Entries 680530
VPD-West ADC Sum
ZDC-West ADC Sum Att

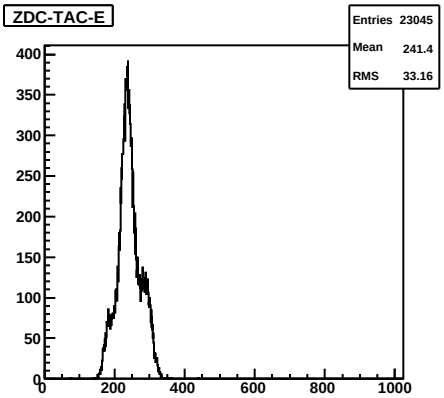

Entries 680530
BBC-L-East ADC Sum
BBC-L-West ADC Sum

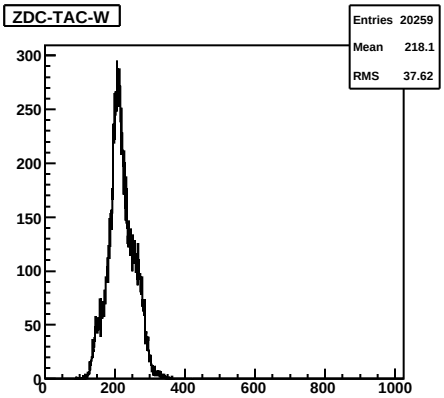

Entries 680530
BBC-S-East ADC Sum
BBC-S-West ADC Sum

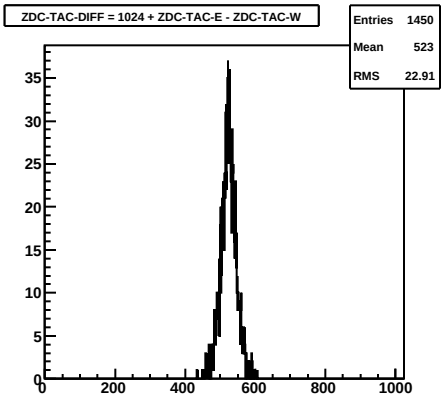

Entries 680530
VPD East ADC Sum
VPD West ADC Sum

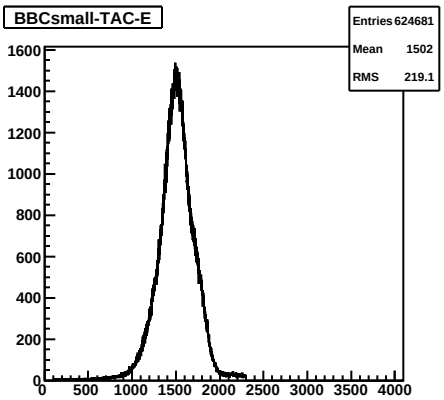

Entries 680530
ZDC East ADC Sum Att
ZDC West ADC Sum Att

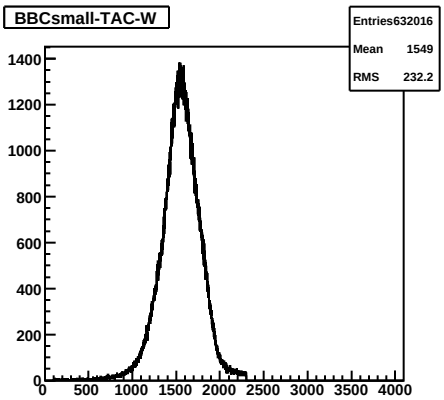

Entries 680530
BBC-L TAC Diff
BCC-S TAC Diff
Entries 680530
BBC-L TAC Diff
VPD TAC Diff
Entries 680530
BBC-L TAC Diff
ZDC TAC Diff
Entries 680530
BBC-S TAC Diff
VPD TAC Diff
Entries 680530
BBC-S TAC Diff
ZDC TAC Diff
Entries 680530
VPD TAC Diff
ZDC TAC Diff

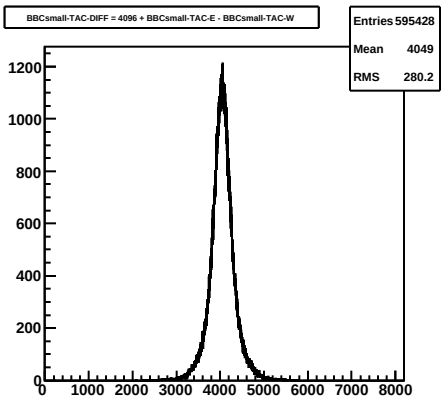

ZDC-TAC-E
Entries 23045
Mean 241.4
RMS 33.16

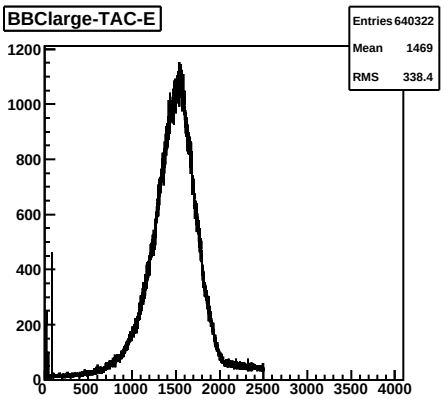

ZDC-TAC-W
Entries 20259
Mean 218.1
RMS 37.62

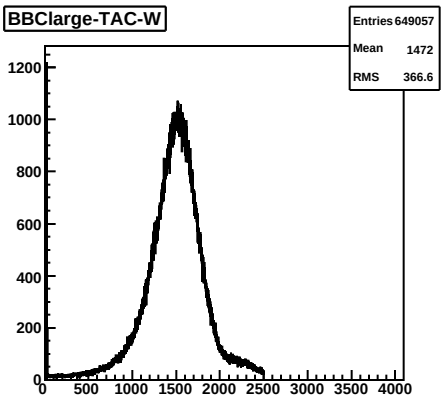

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1450
Mean 523
RMS 22.91

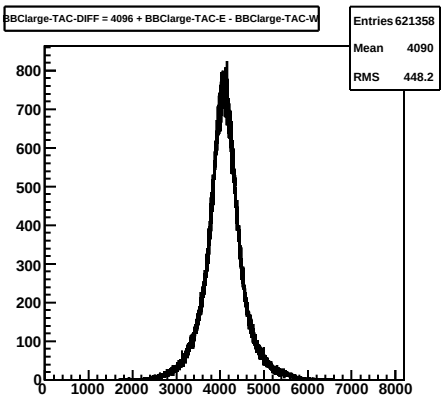

BBCsmall-TAC-E
Entries 624681
Mean 1502
RMS 219.1

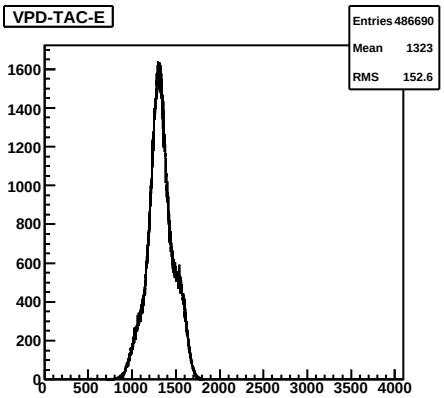

BBCsmall-TAC-W
Entries 632016
Mean 1549
RMS 232.2

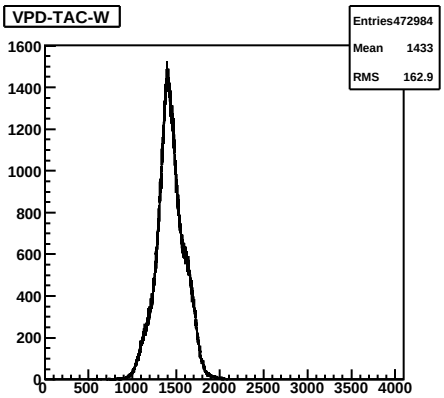

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 595428
Mean 4049
RMS 280.2

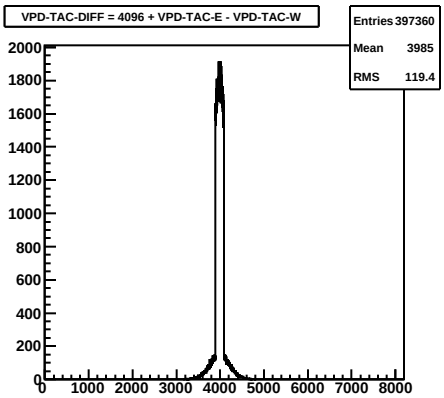

BBClarge-TAC-E
Entries 640322
Mean 1469
RMS 338.4

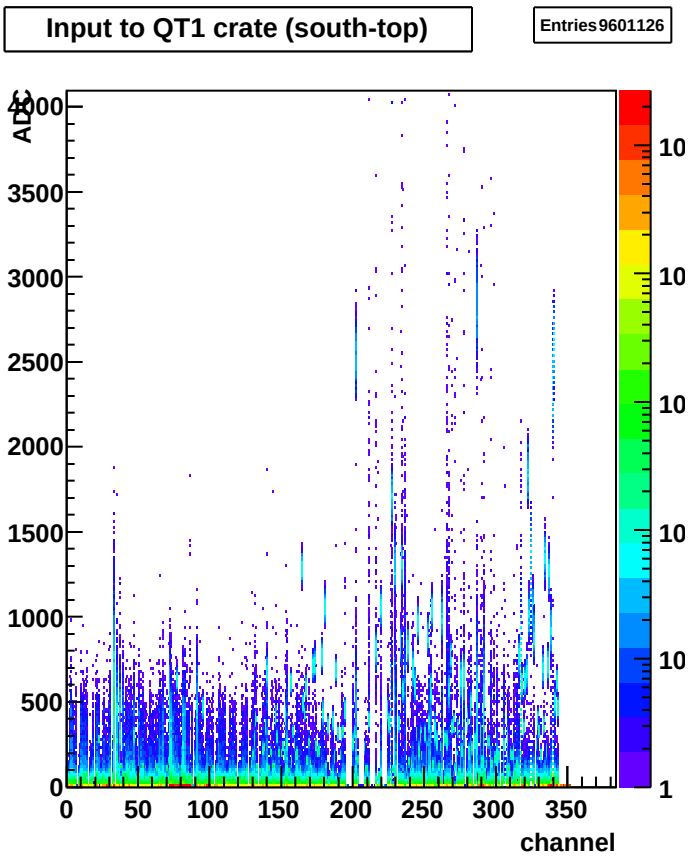

BBClarge-TAC-W
Entries 649057
Mean 1472
RMS 366.6

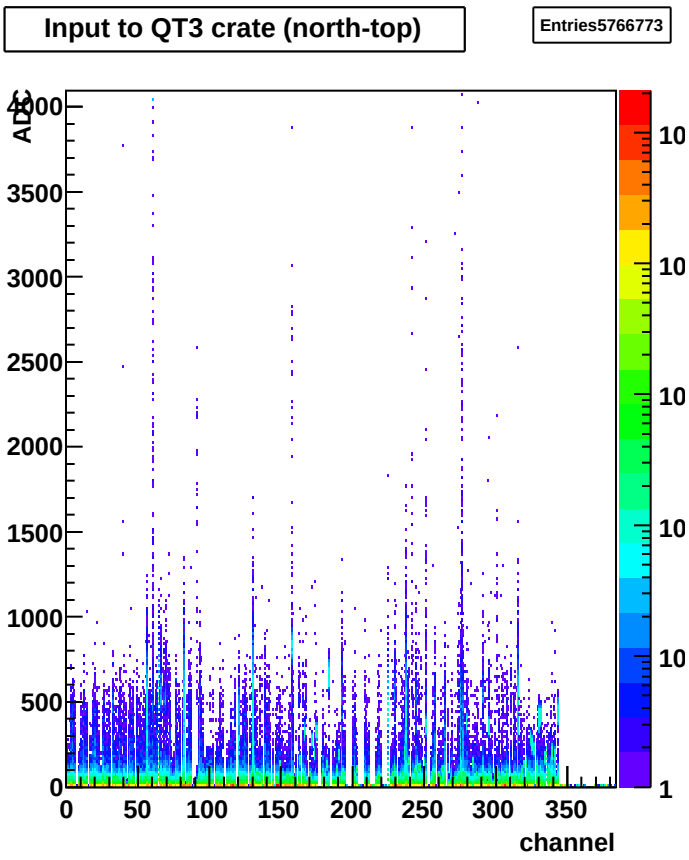

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 621358
Mean 4090
RMS 448.2

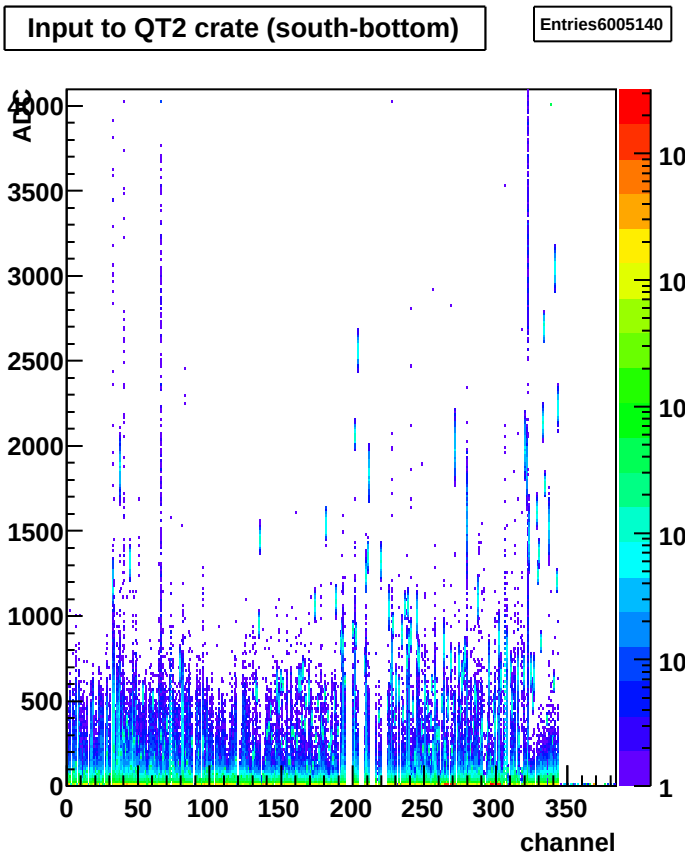

VPD-TAC-E
Entries 486690
Mean 1323
RMS 152.6

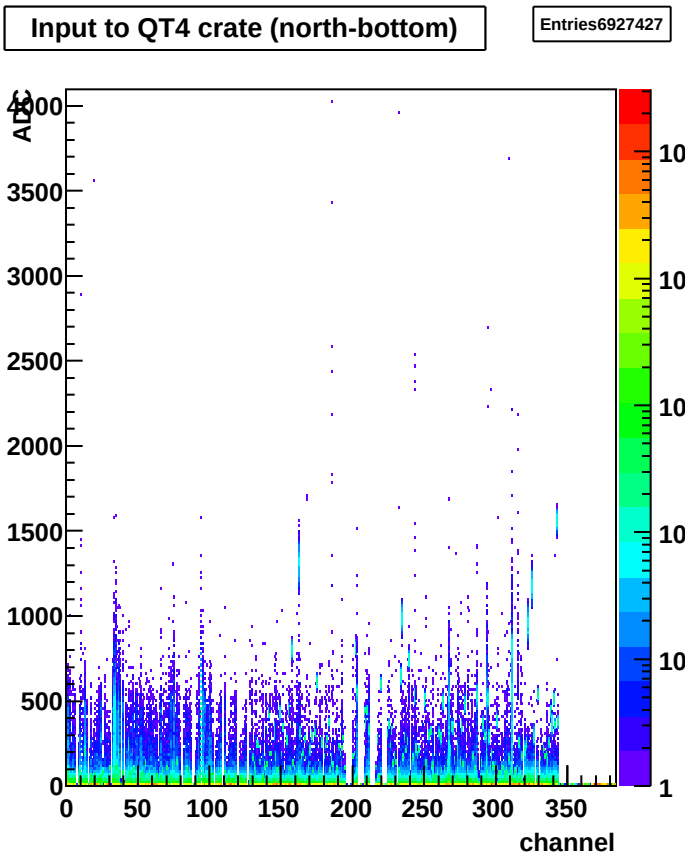

VPD-TAC-W
Entries 472984
Mean 1433
RMS 162.9

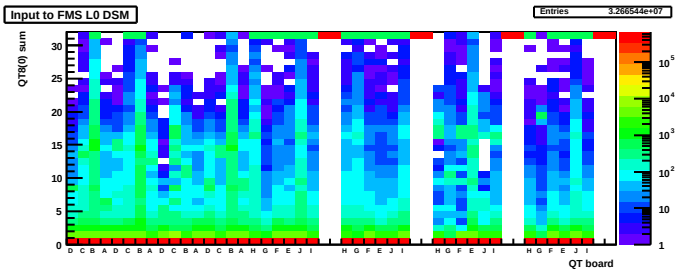

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 397360
Mean 3985
RMS 119.4

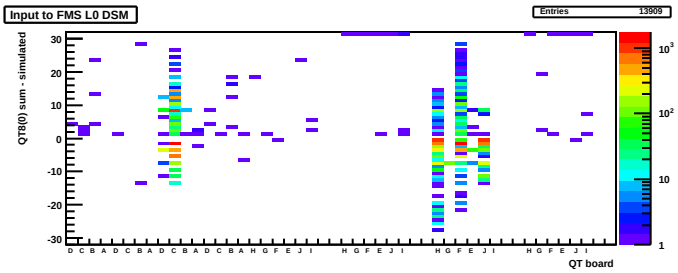

Input to QT1 crate (south-top)
Entries9601126
ADC
channel

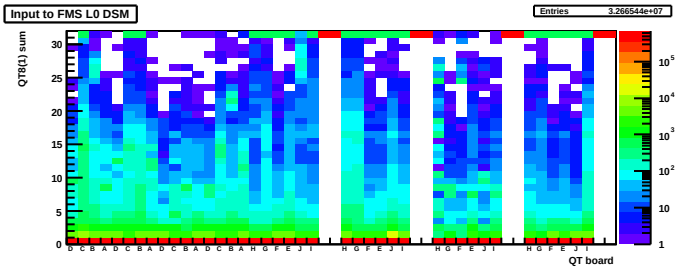

Input to QT3 crate (north-top)
Entries5766773
ADC
channel

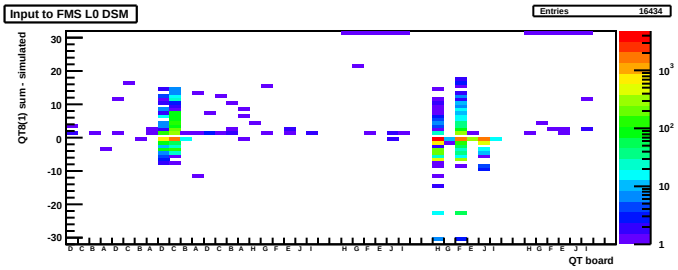

Input to QT2 crate (south-bottom)
Entries6005140
ADC
channel

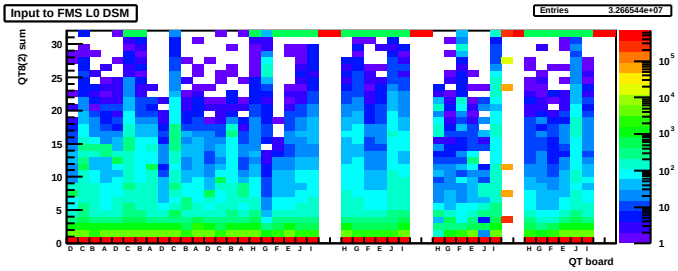

Input to QT4 crate (north-bottom)
Entries6927427
ADC
channel

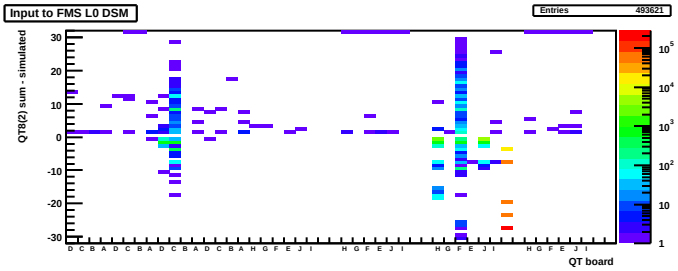

Input to FMS L0 DSM
Entries 3.266544e+07
QT8(0) sum
QT board

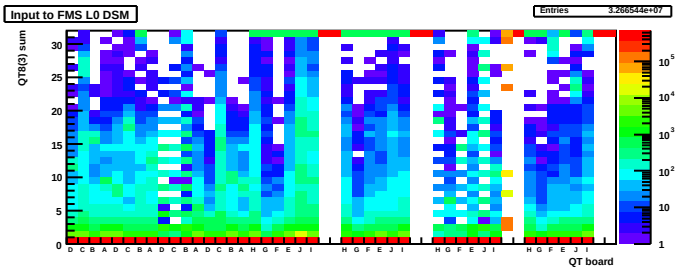

Input to FMS L0 DSM
Entries 13909
QT8(0) sum - simulated
QT board

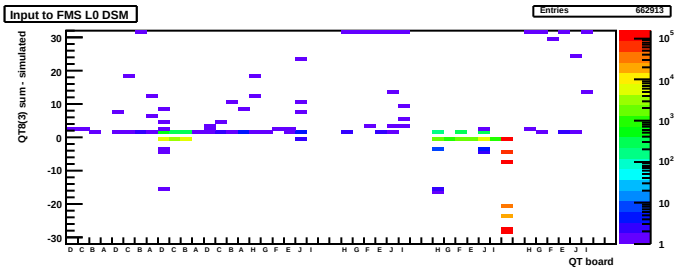

Input to FMS L0 DSM
Entries 3.266544e+07
QT8(1) sum
QT board

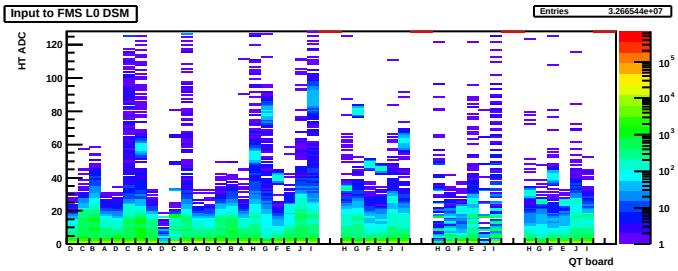

Input to FMS L0 DSM
Entries 16434
QT8(1) sum - simulated
QT board

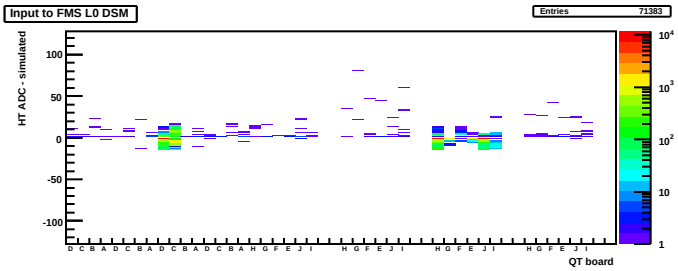

Input to FMS L0 DSM
Entries 3.266544e+07
QT8(2) sum
QT board

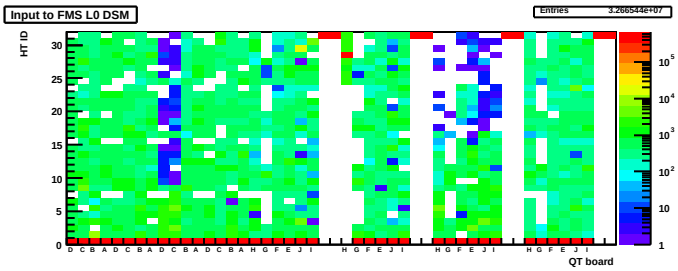

Input to FMS L0 DSM
Entries 493621
QT8(2) sum - simulated
QT board

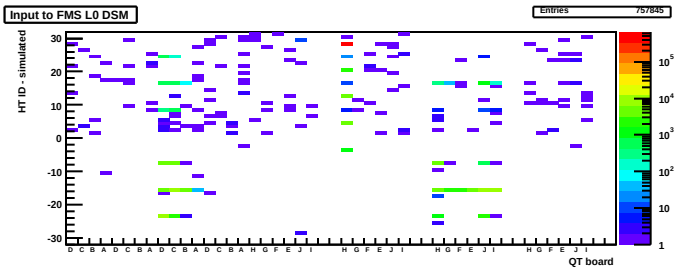

Input to FMS L0 DSM
Entries 3.266544e+07
QT8(3) sum
QT board

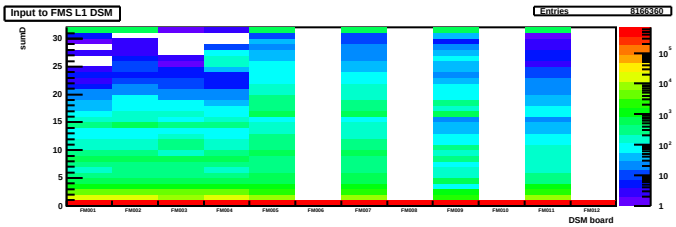

Input to FMS L0 DSM
Entries 662913
QT8(3) sum - simulated
QT board

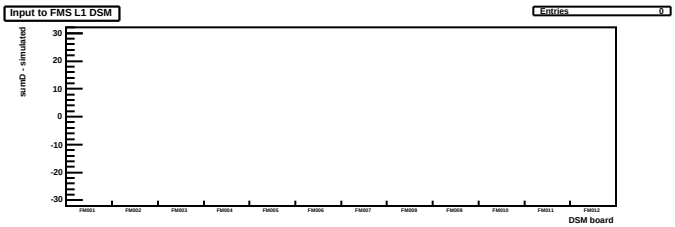

Input to FMS L0 DSM
Entries 3.266544e+07
HT ADC
QT board

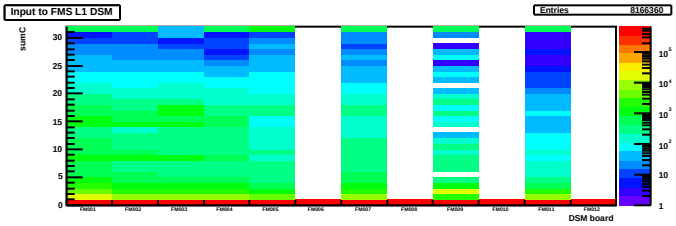

Input to FMS L0 DSM
Entries 71383
HT ADC - simulated
QT board

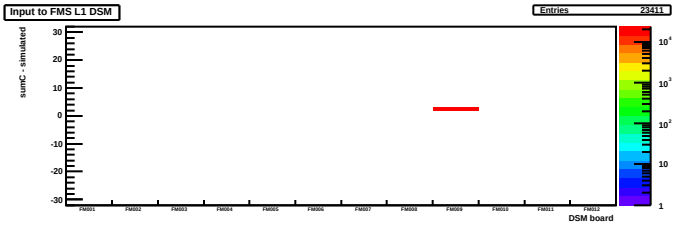

Input to FMS L0 DSM
Entries 3.266544e+07
HT ID
QT board

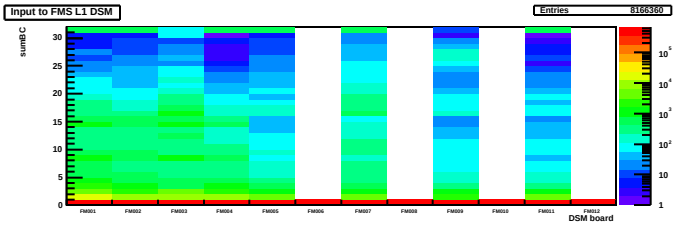

Input to FMS L0 DSM
Entries 757845
HT ID - simulated
QT board

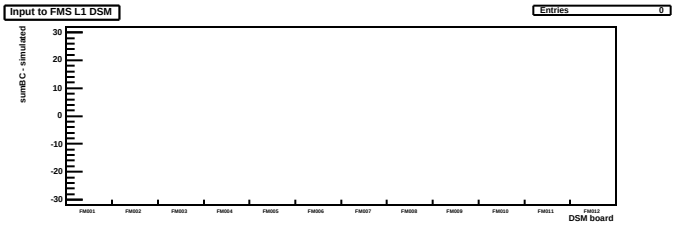

Input to FMS L1 DSM
Entries 8166360
sumD
DSM board

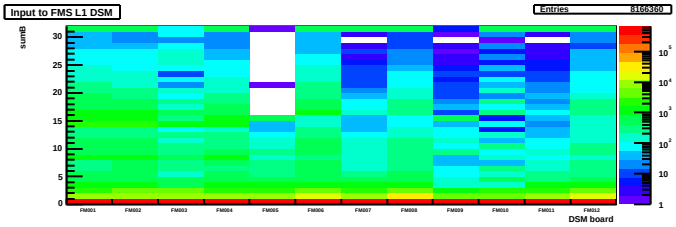

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

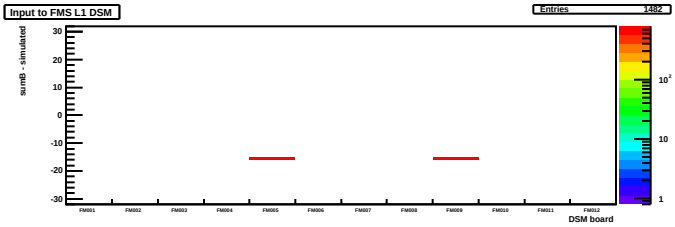

Input to FMS L1 DSM
Entries 8166360
sumC
DSM board

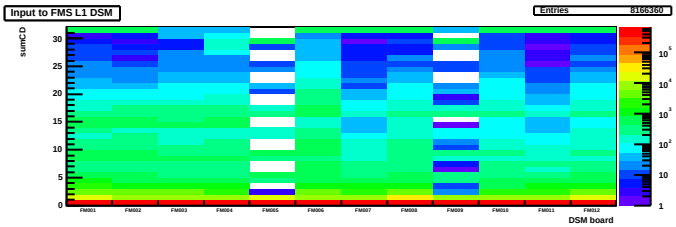

Input to FMS L1 DSM
Entries 23411
sumC - simulated
DSM board

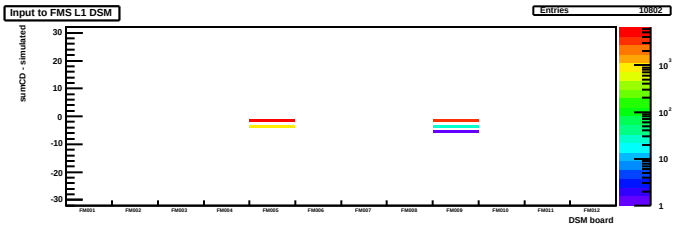

Input to FMS L1 DSM
Entries 8166360
sumBC
DSM board

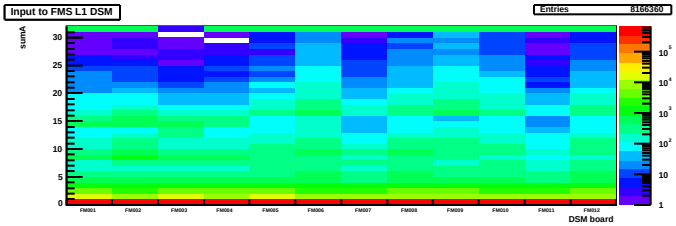

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

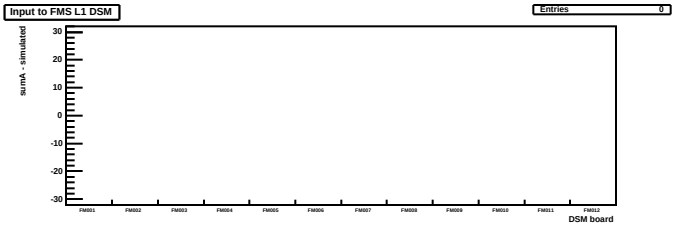

Input to FMS L1 DSM
Entries 8166360
sumB
DSM board

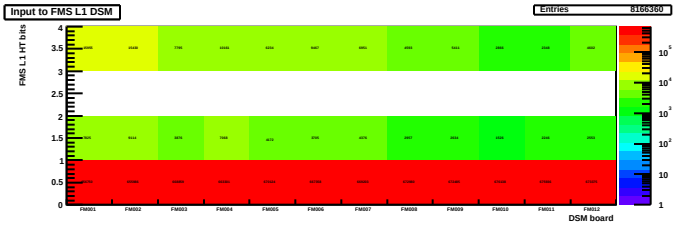

Input to FMS L1 DSM
Entries 1482
sumB - simulated
DSM board

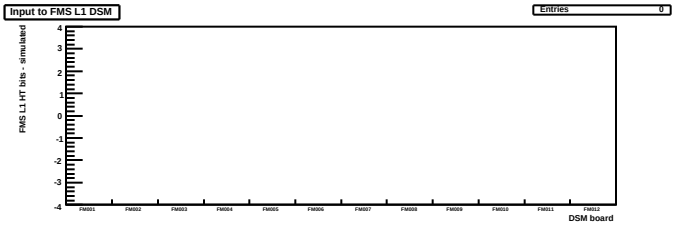

Input to FMS L1 DSM
Entries 8166360
sumCD
DSM board

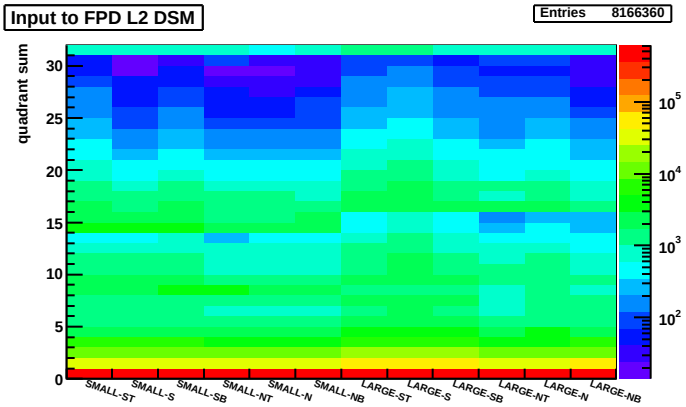

Input to FMS L1 DSM
Entries 10802
sumCD - simulated
DSM board

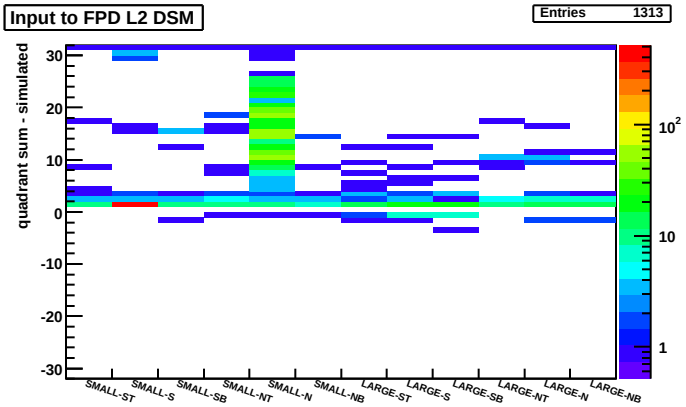

Input to FMS L1 DSM
Entries 8166360
sumA
DSM board

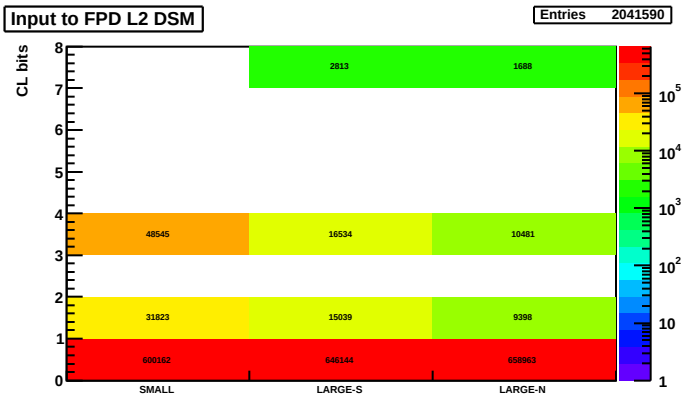

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

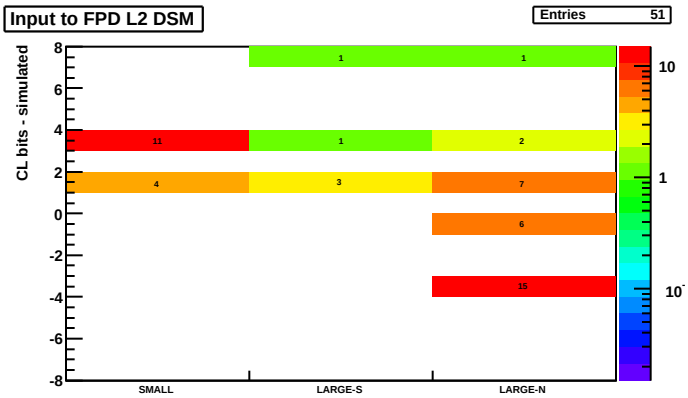

Input to FMS L1 DSM
Entries 8166360
FMS L1 HT bits
DSM board

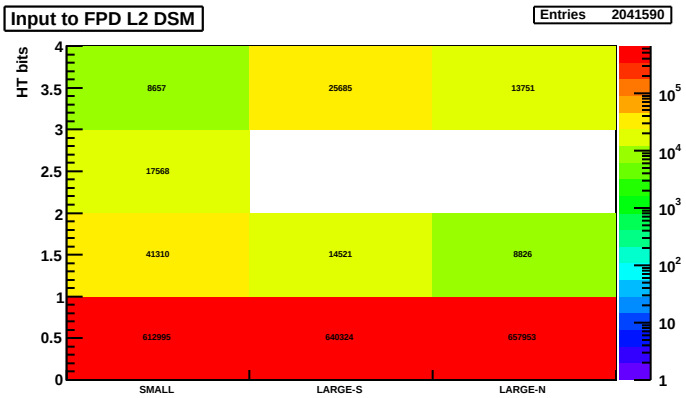

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

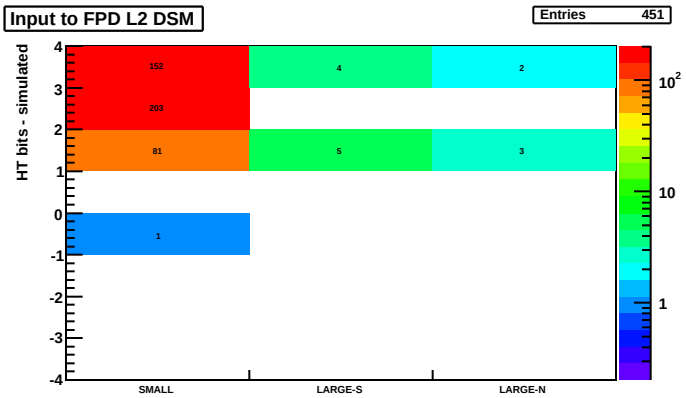

Input to FPD L2 DSM
Entries 8166360
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

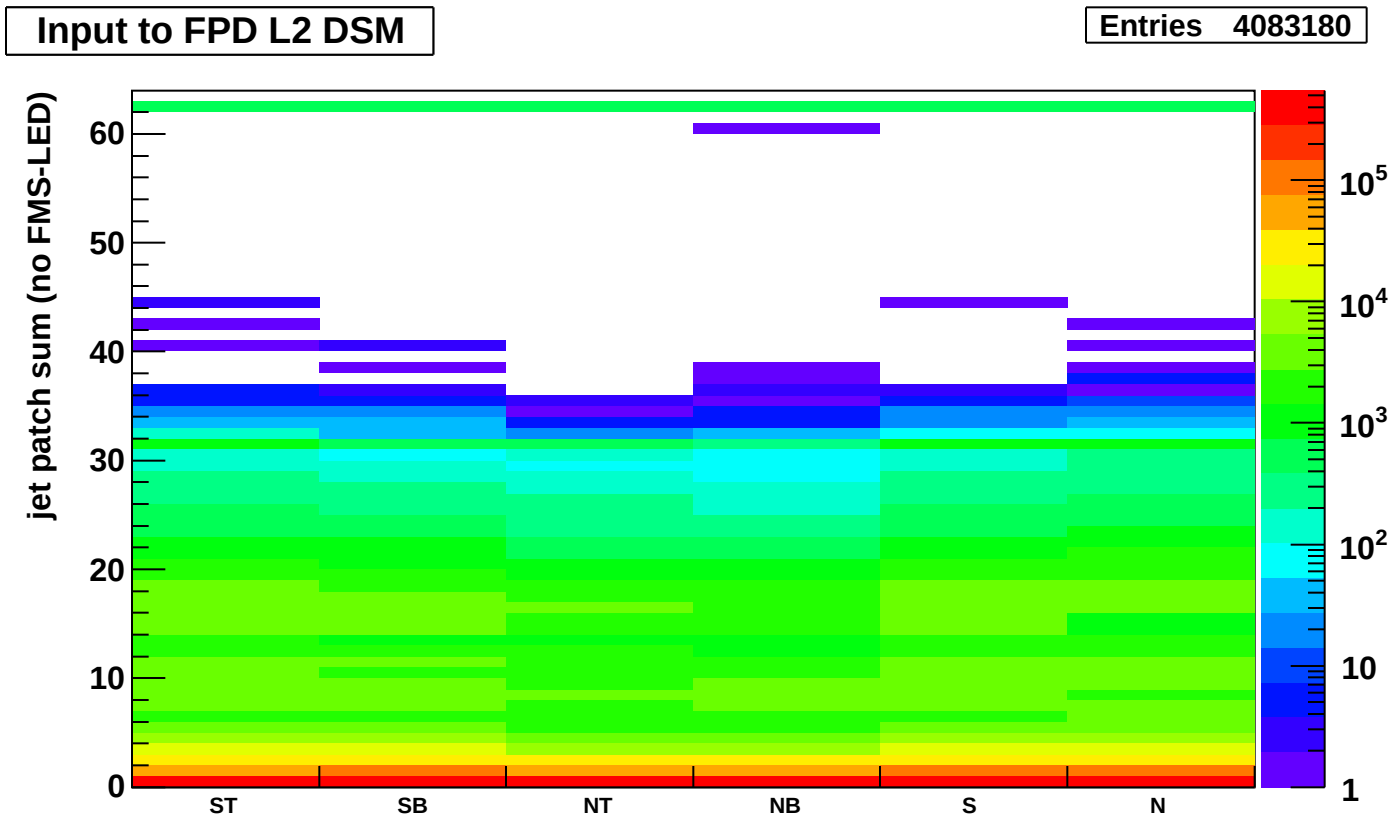

Input to FPD L2 DSM
Entries 1313
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

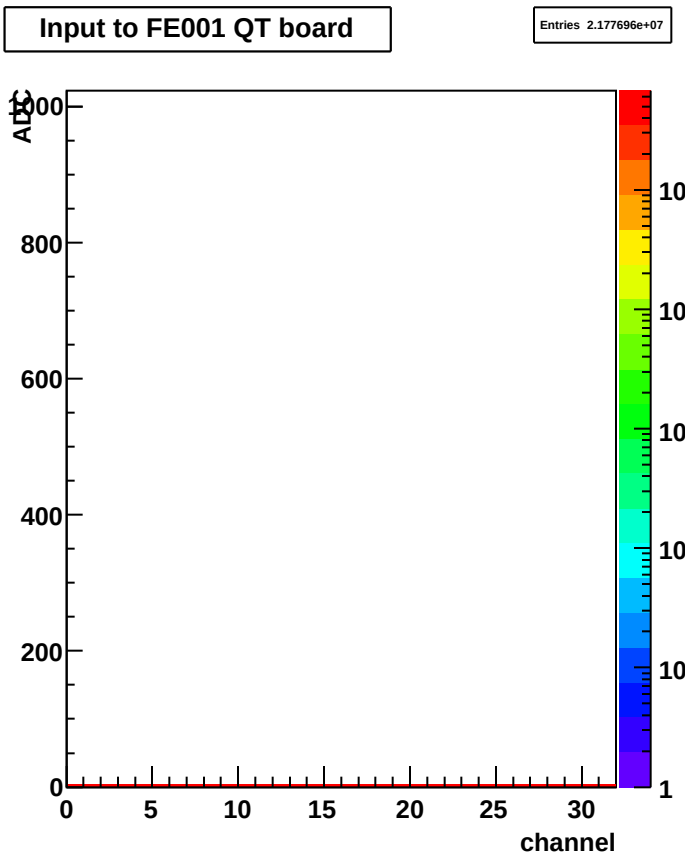

Input to FPD L2 DSM
Entries 2041590
CL bits
2813
1688
48545
16534
10481
31823
15039
9398
600162
646144
658963
SMALL
LARGE-S
LARGE-N

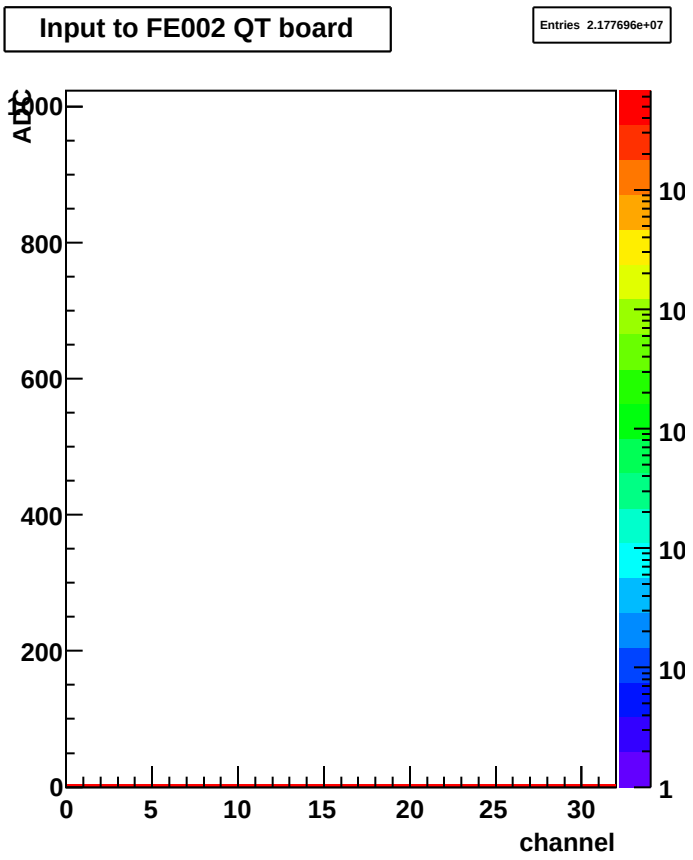

Input to FPD L2 DSM
Entries 51
CL bits - simulated
1
1
11
1
2
4
3
7
6
15
SMALL
LARGE-S
LARGE-N

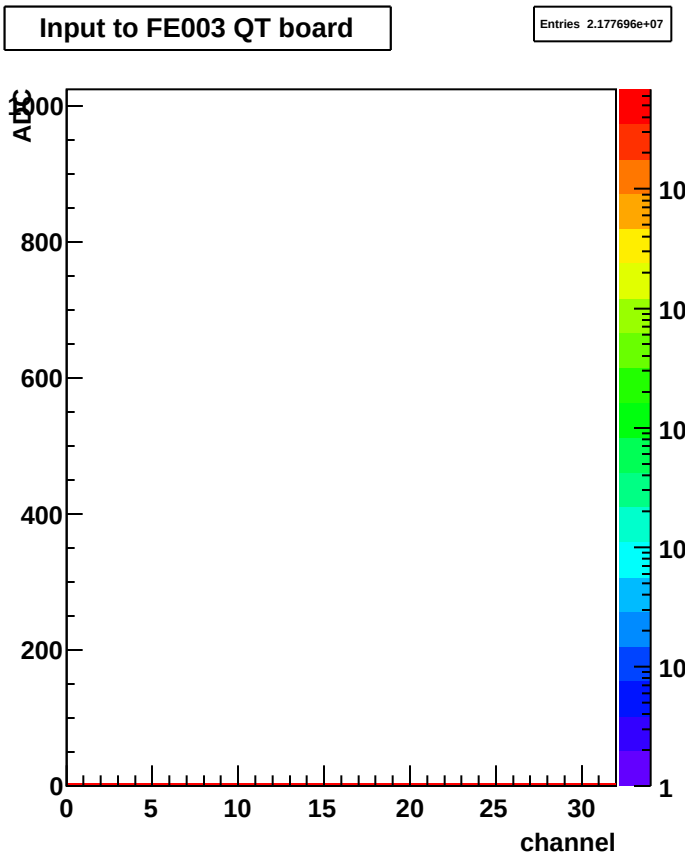

Input to FPD L2 DSM
Entries 2041590
HT bits
8657
25685
13751
17568
41310
14521
8826
612995
640324
657953
SMALL
LARGE-S
LARGE-N

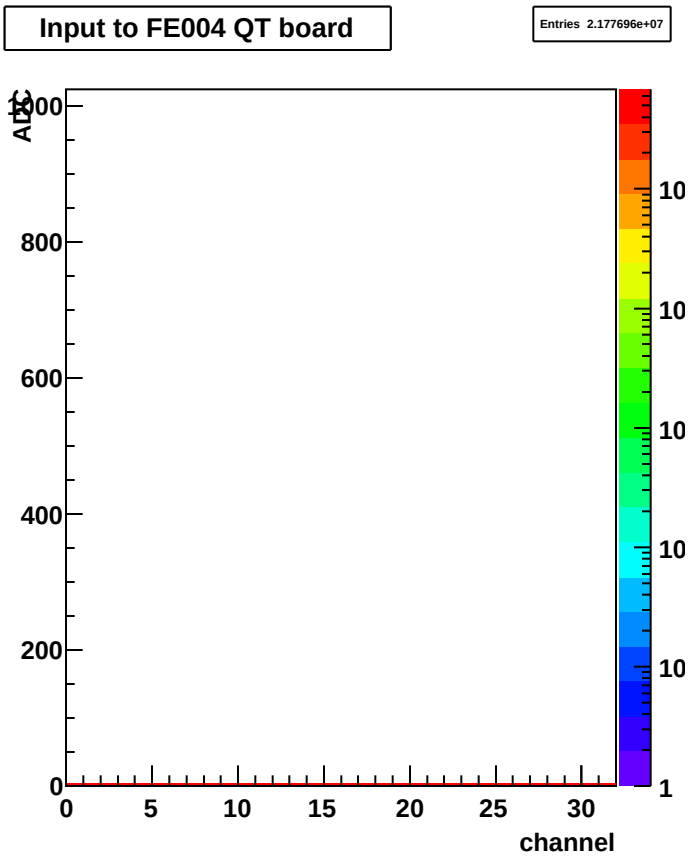

Input to FPD L2 DSM
Entries 451
HT bits - simulated
152
4
2
203
81
5
3
1
SMALL
LARGE-S
LARGE-N

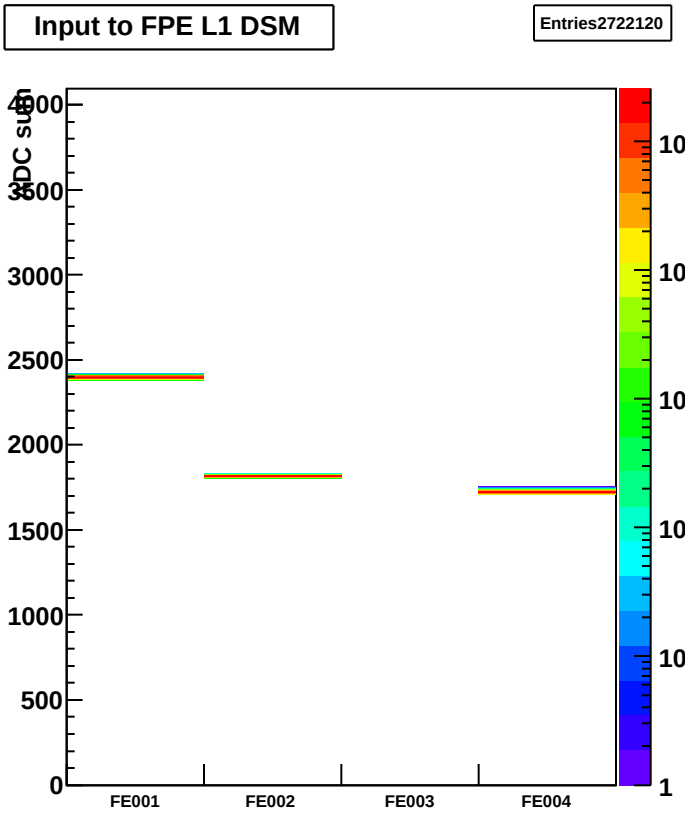

Input to FPD L2 DSM
Entries 4083180
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

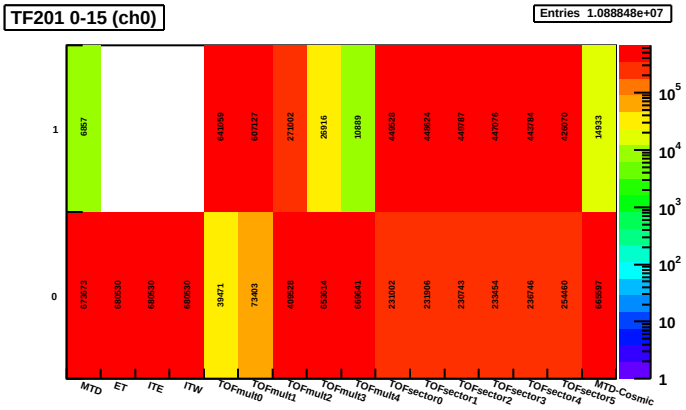

Input to FE001 QT board
Entries 2.177696e+07
ADC
channel

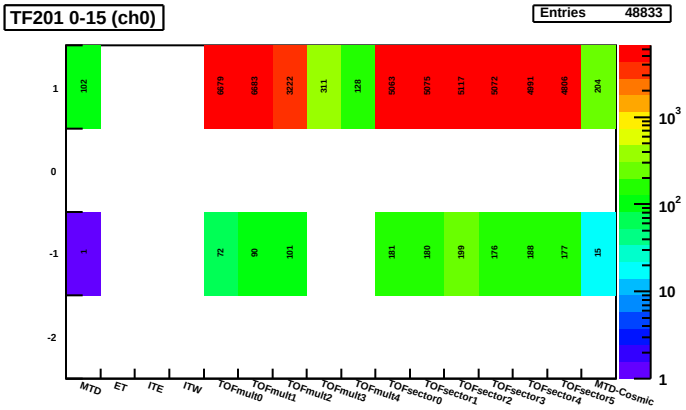

Input to FE002 QT board
Entries 2.177696e+07
ADC
channel

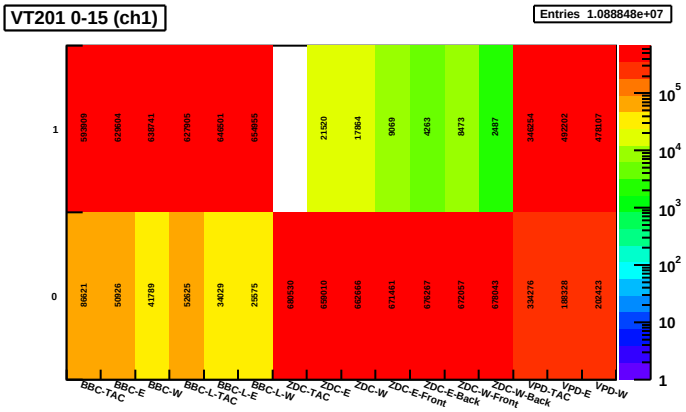

Input to FE003 QT board
Entries 2.177696e+07
ADC
channel

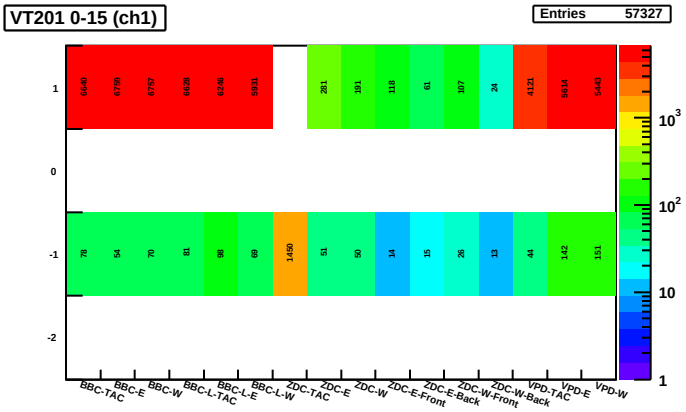

Input to FE004 QT board
Entries 2.177696e+07
ADC
channel


Input to FPE L1 DSM
Entries2722120
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 1.088848e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 48833
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.088848e+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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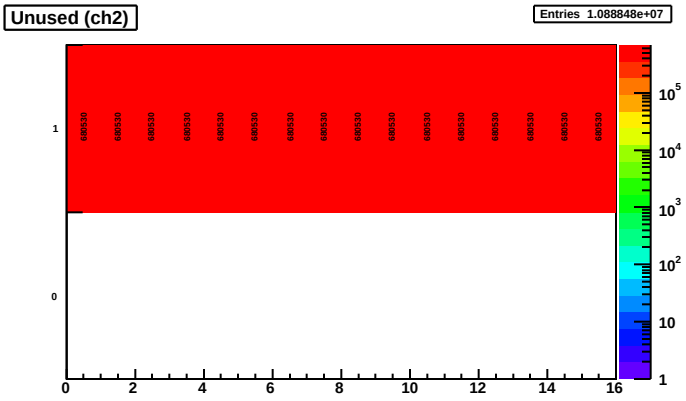
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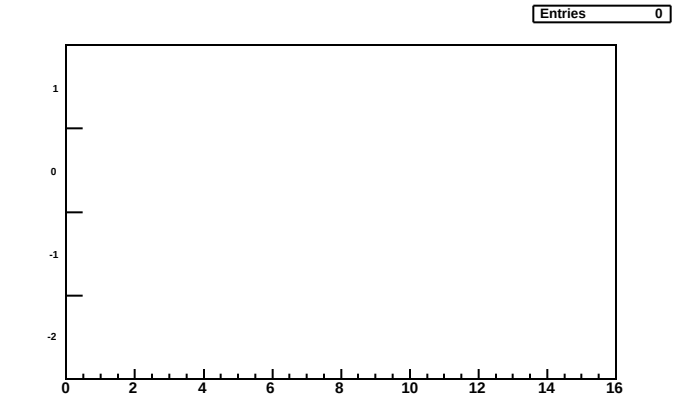
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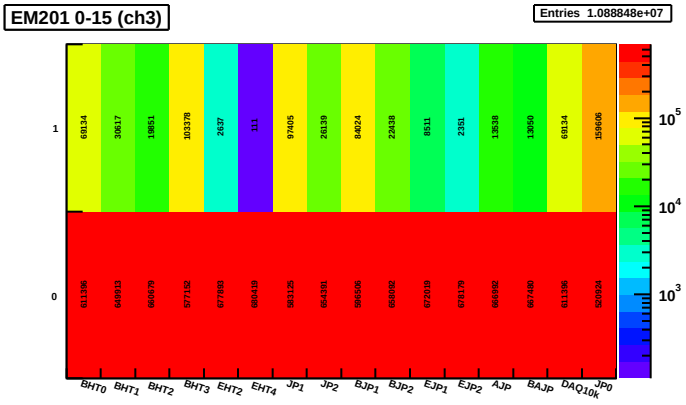
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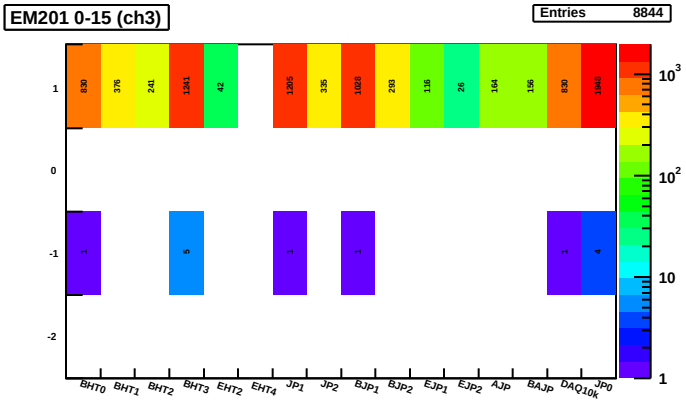
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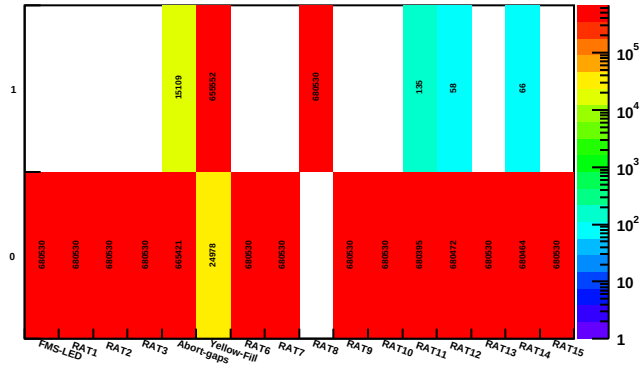
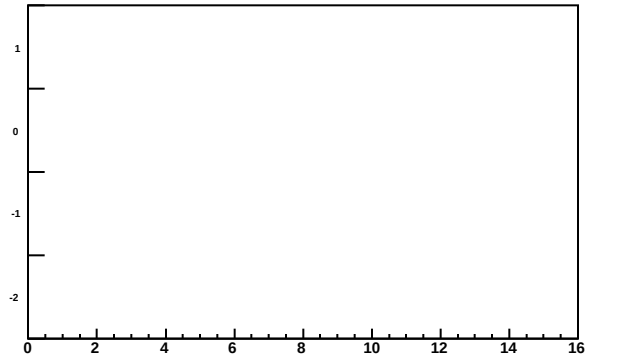
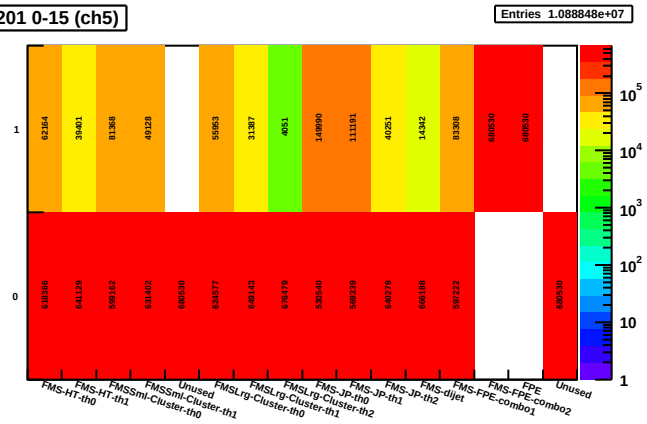
RAT board (ch4)





FP201 0-15 (ch5)



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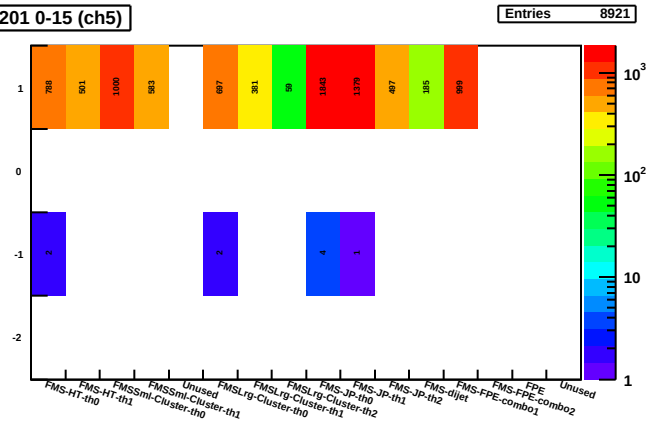
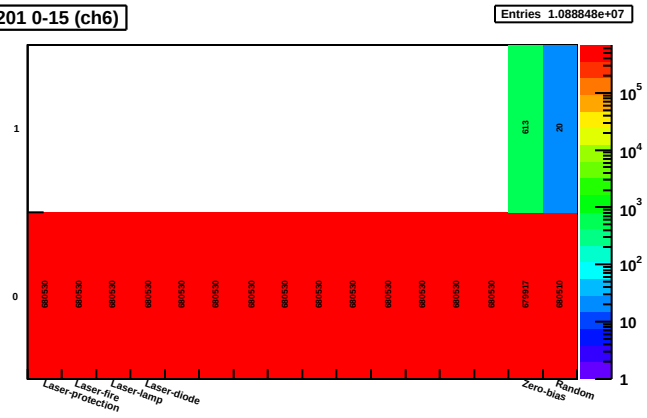
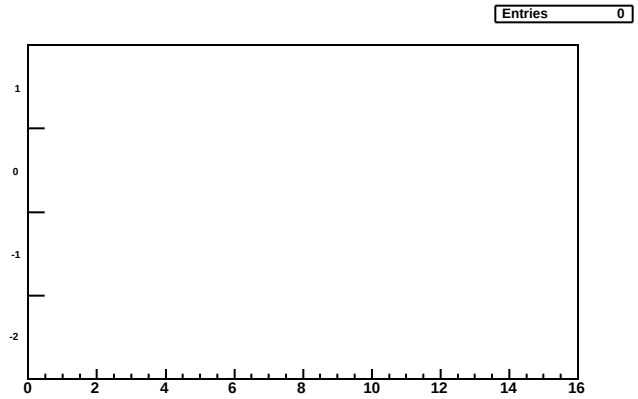
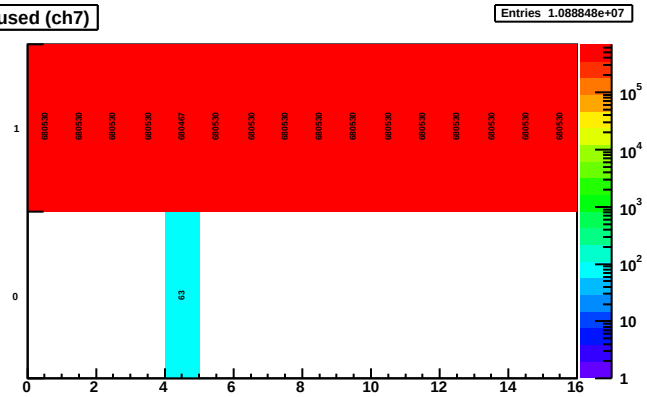
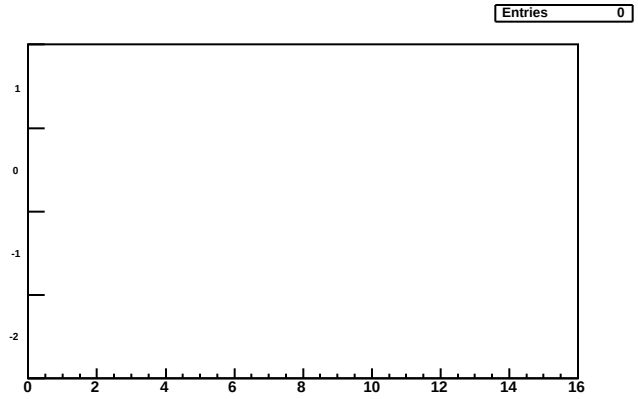


ST201 0-15 (ch6)





Unused (ch7)