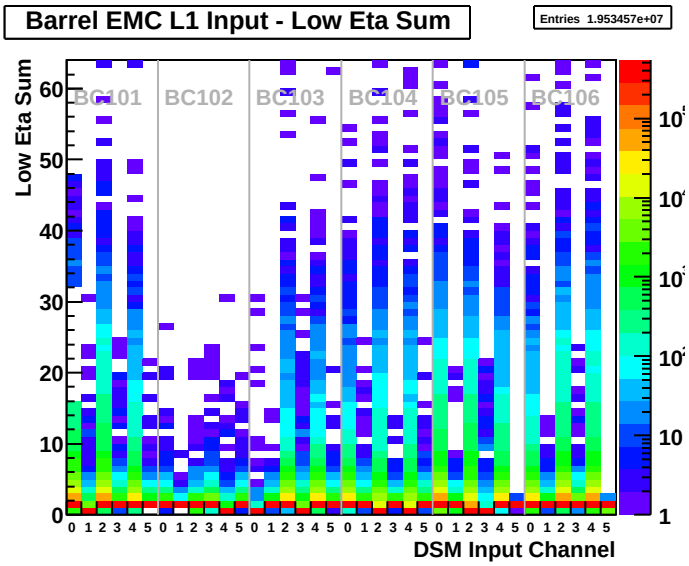
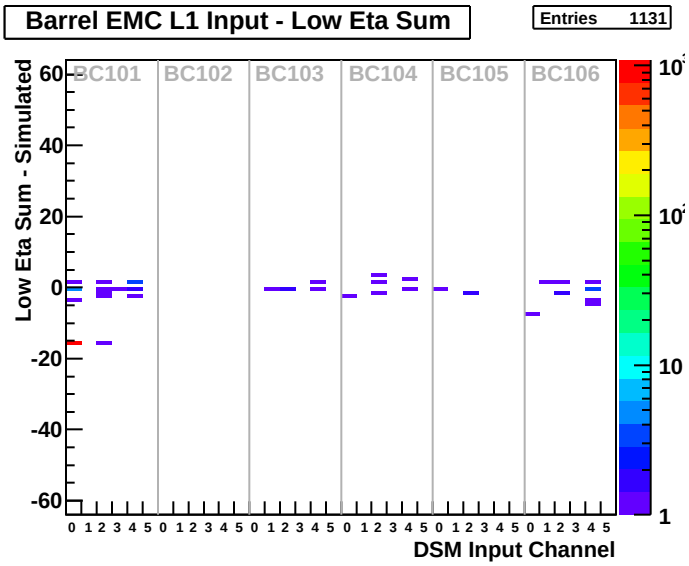
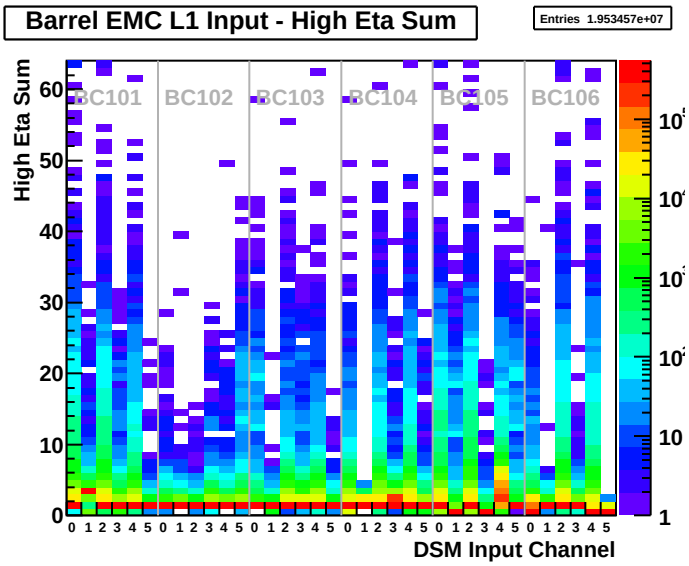
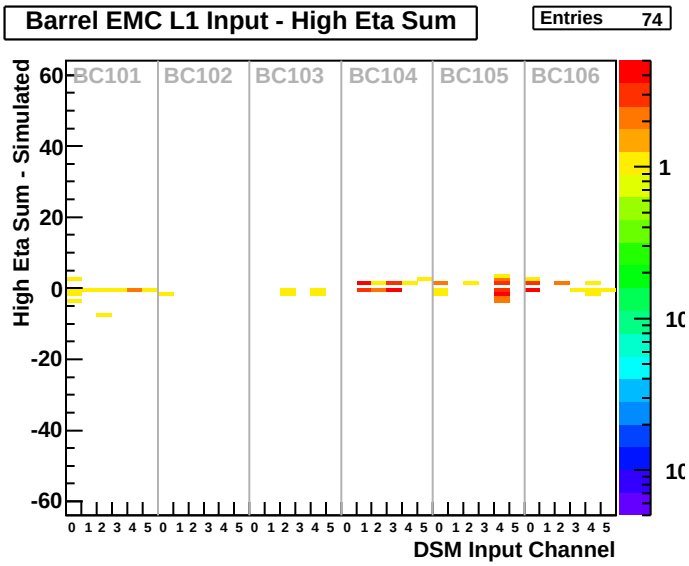
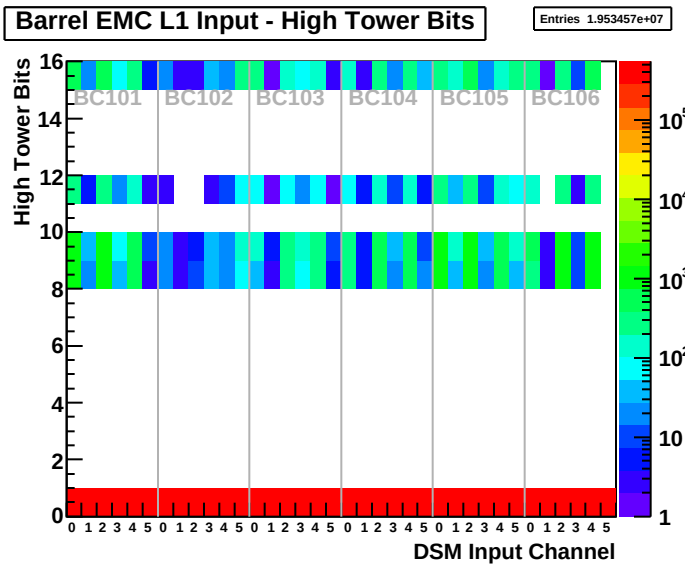
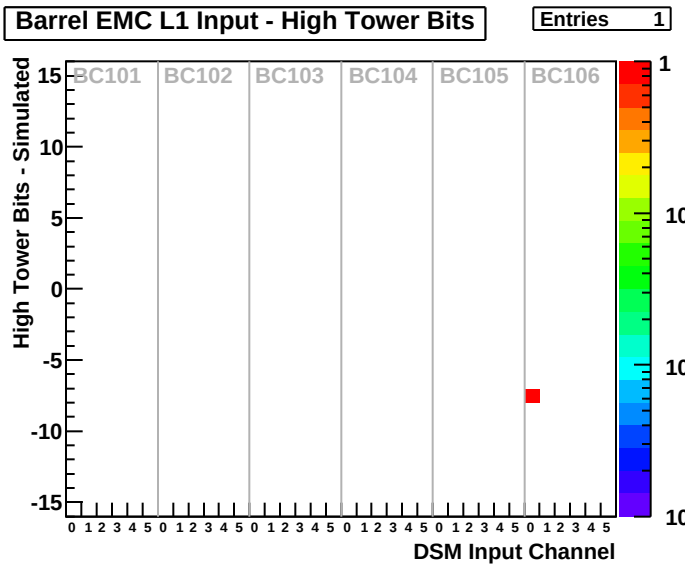

Barrel EMC L1 Input - Low Eta Sum
Entries 1.953457e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

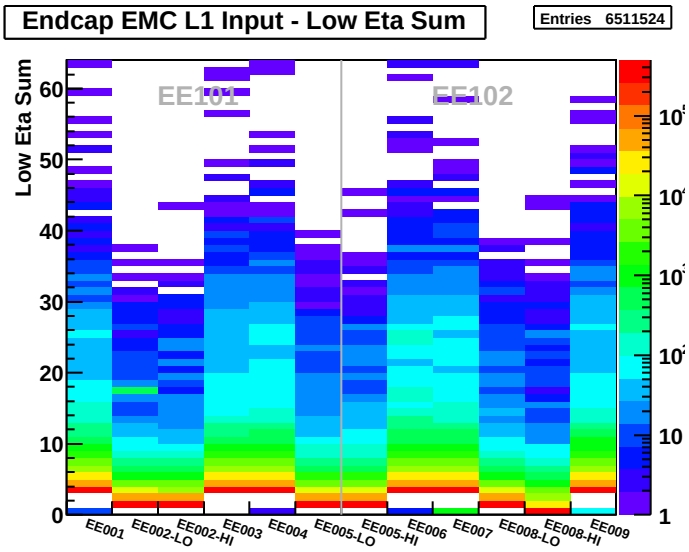

Barrel EMC L1 Input - Low Eta Sum
Entries 1131
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

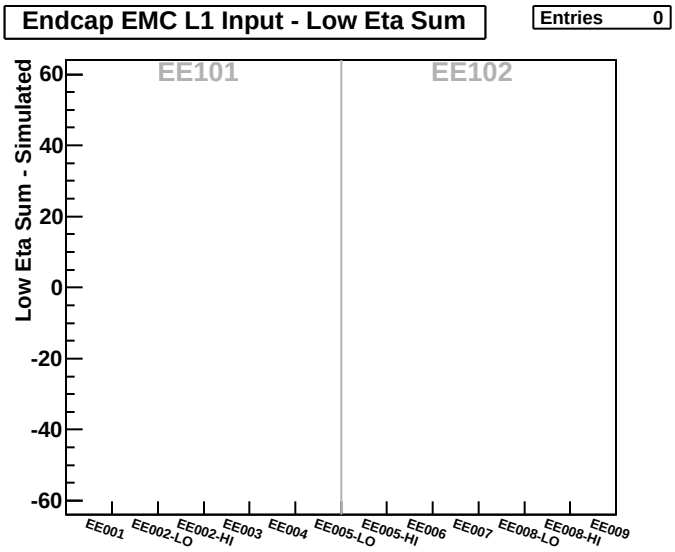

Barrel EMC L1 Input - High Eta Sum
Entries 1.953457e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

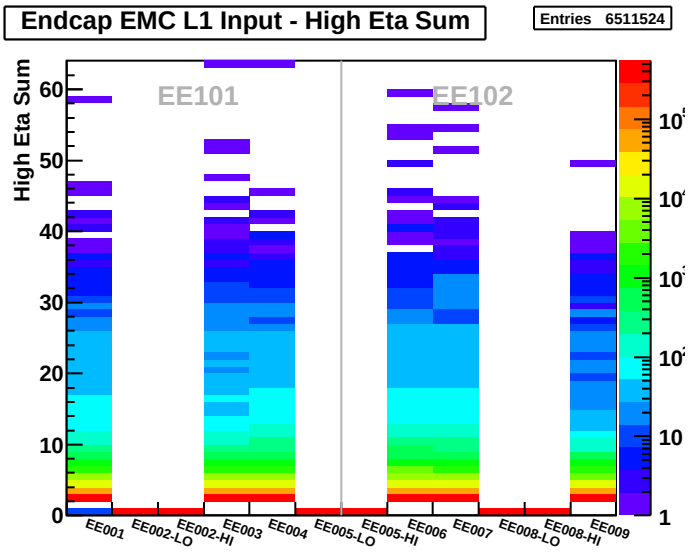

Barrel EMC L1 Input - High Eta Sum
Entries 74
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

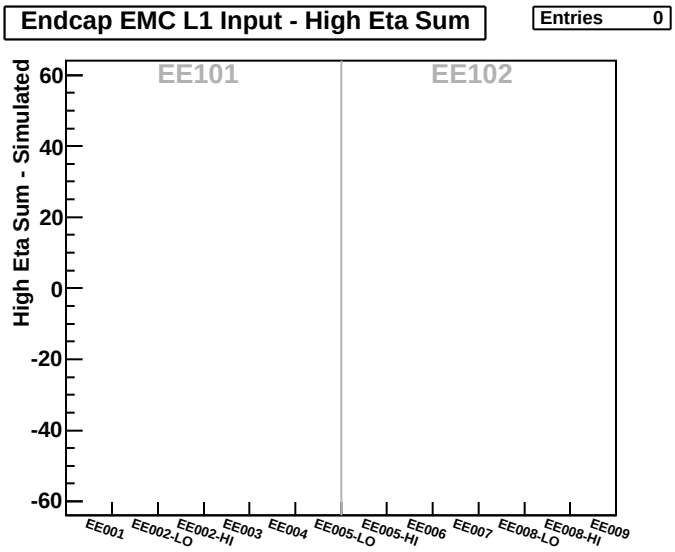

Barrel EMC L1 Input - High Tower Bits
Entries 1.953457e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

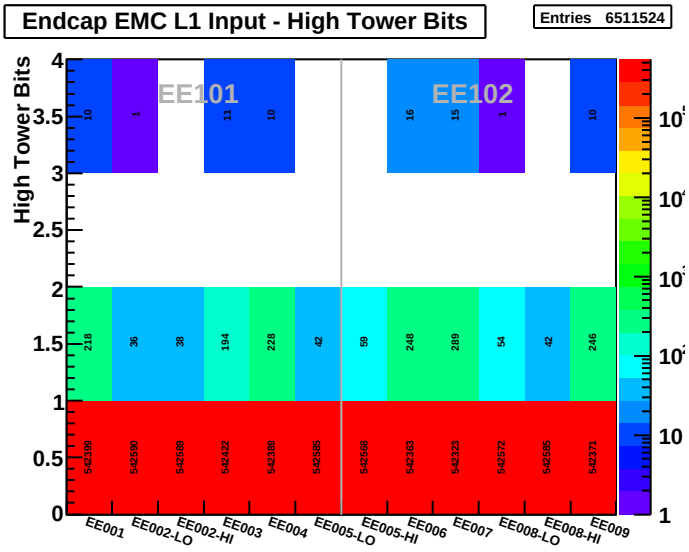

Barrel EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

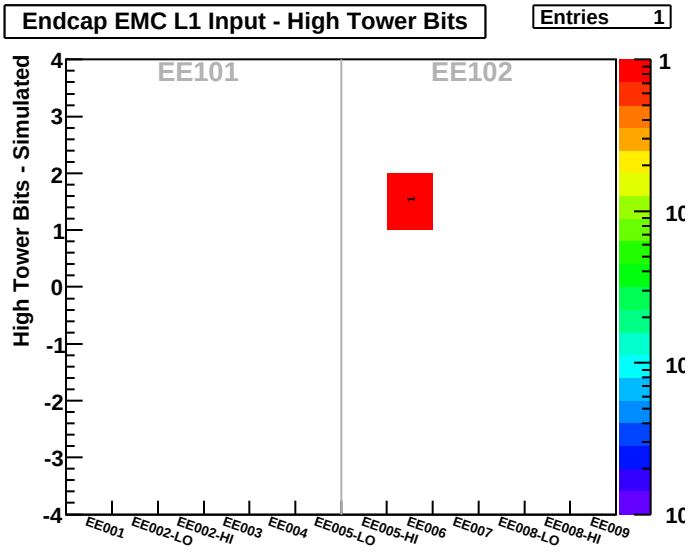

Endcap EMC L1 Input - Low Eta Sum
Entries 6511524
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

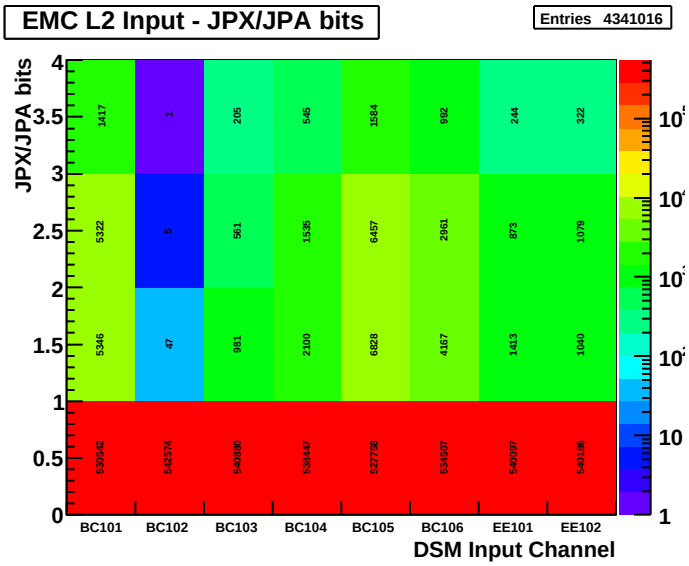

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

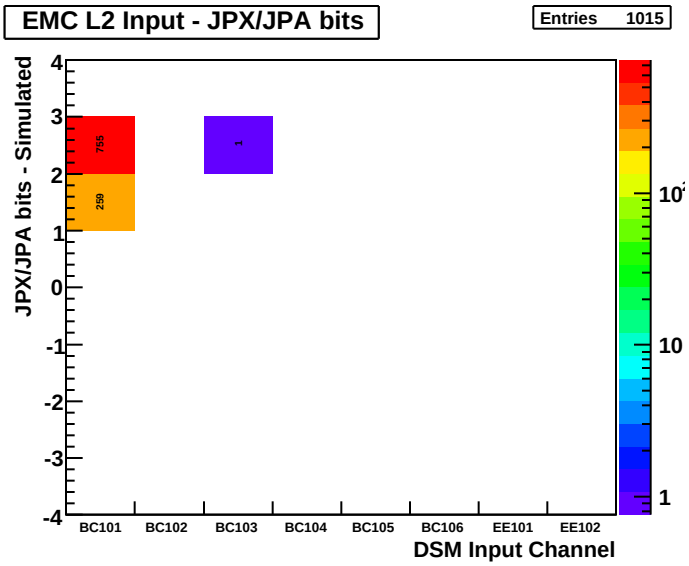

Endcap EMC L1 Input - High Eta Sum
Entries 6511524
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

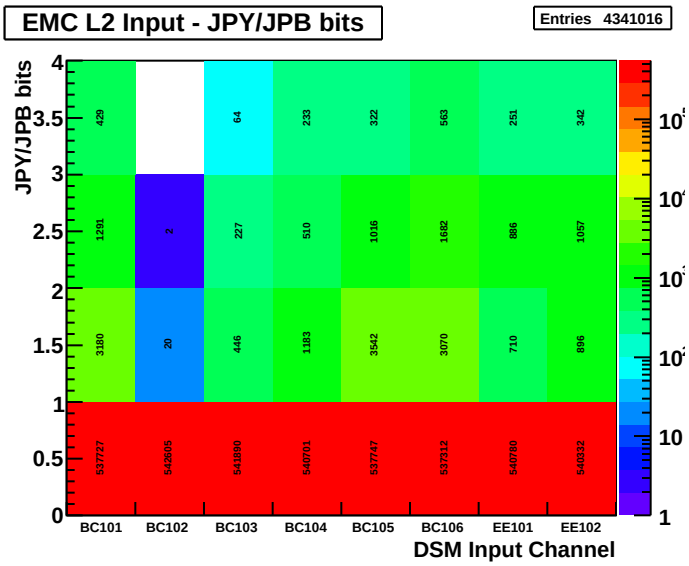

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

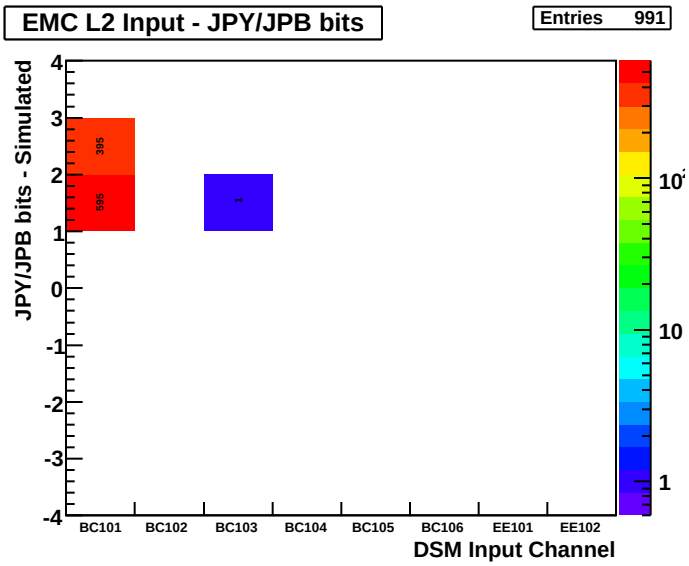

Endcap EMC L1 Input - High Tower Bits
Entries 6511524
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

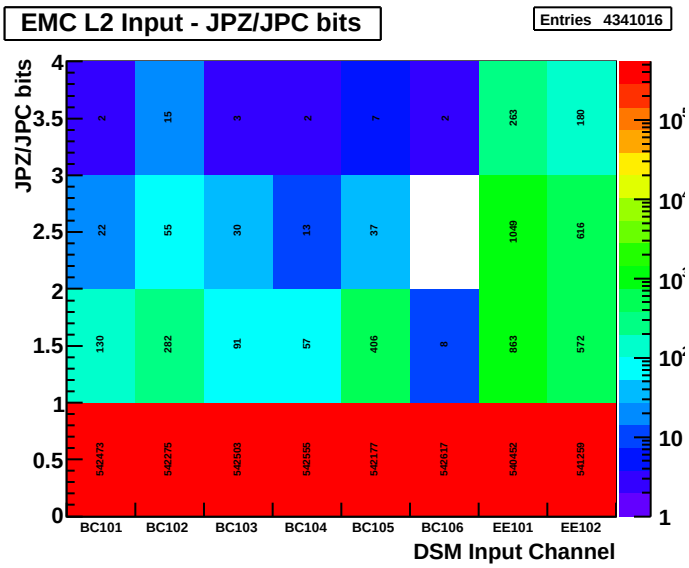

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

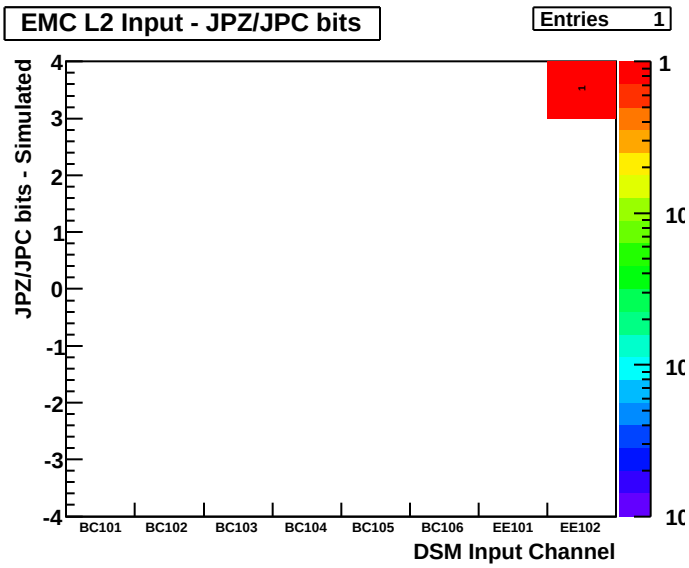

EMC L2 Input - JPX/JPA bits
Entries 4341016
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1417 1 205 545 1584 992 244 322
5322 5 561 1535 6457 2961 873 1079
5346 47 981 2100 6828 4167 1413 1040
530542 542574 540880 538447 527758 534507 540097 540186

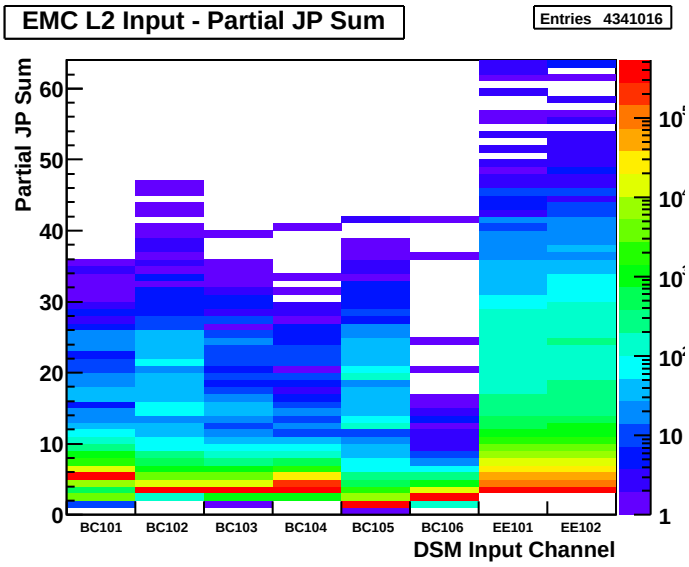

EMC L2 Input - JPX/JPA bits
Entries 1015
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
755 1
299

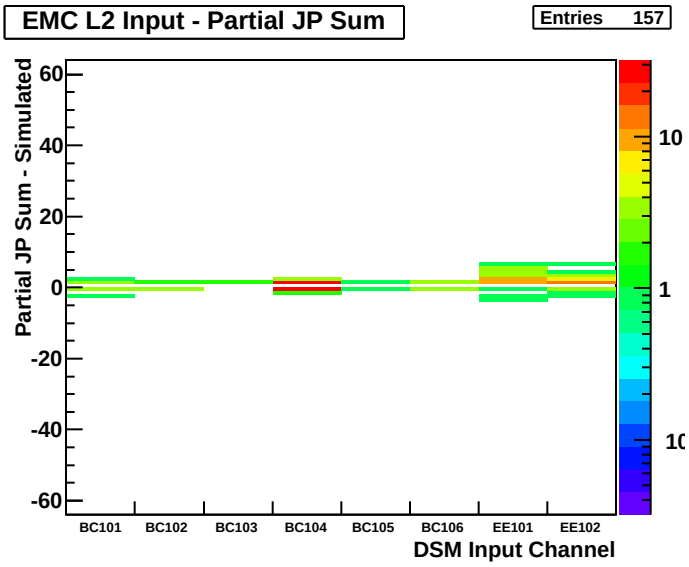

EMC L2 Input - JPY/JPB bits
Entries 4341016
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
429 64 233 322 563 251 342
1291 2 227 510 1016 1682 886 1057
3180 20 446 1183 3542 3070 710 896
537727 542605 541890 540701 537747 537312 540780 540332

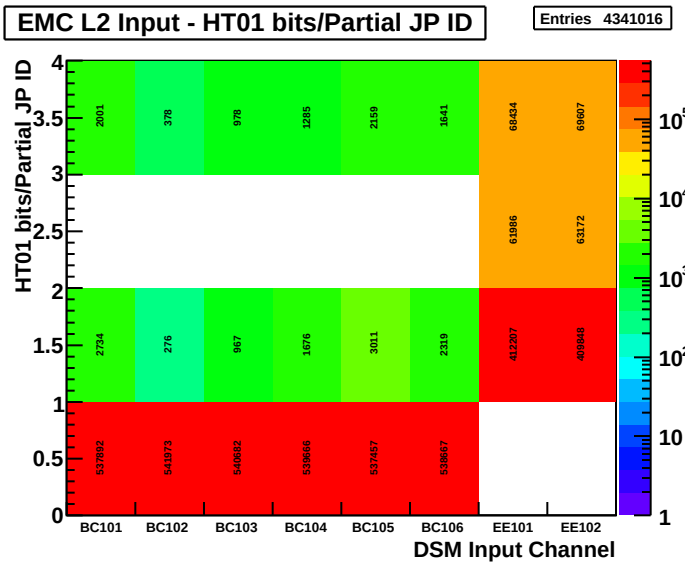

EMC L2 Input - JPY/JPB bits
Entries 991
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
395
595 1

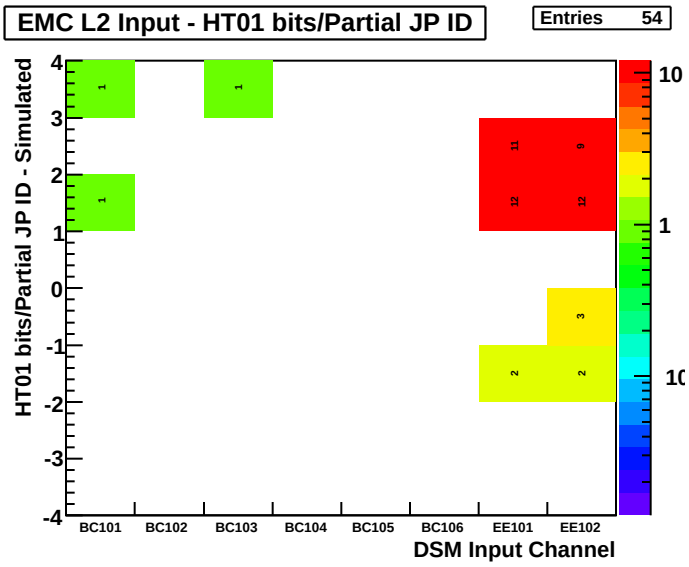

EMC L2 Input - JPZ/JPC bits
Entries 4341016
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 15 3 2 7 2 263 180
22 55 30 13 37 1049 616
130 282 91 57 406 8 863 572
542473 542275 542503 542555 542177 542617 540452 541259

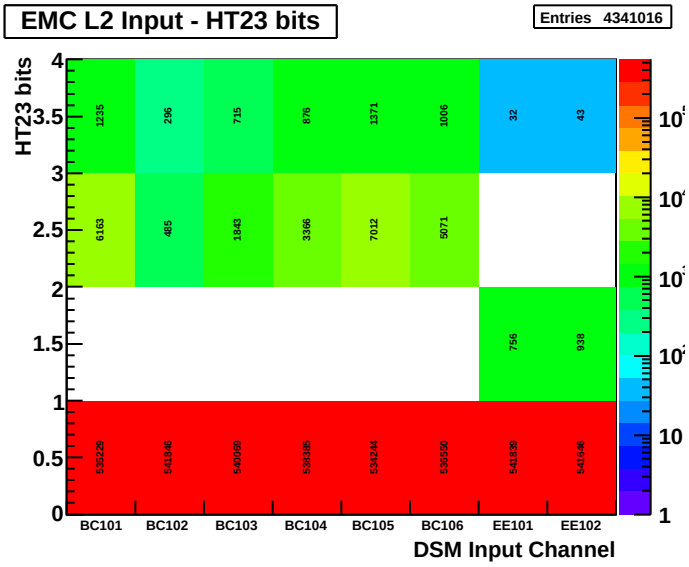

EMC L2 Input - JPZ/JPC bits
Entries 1
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

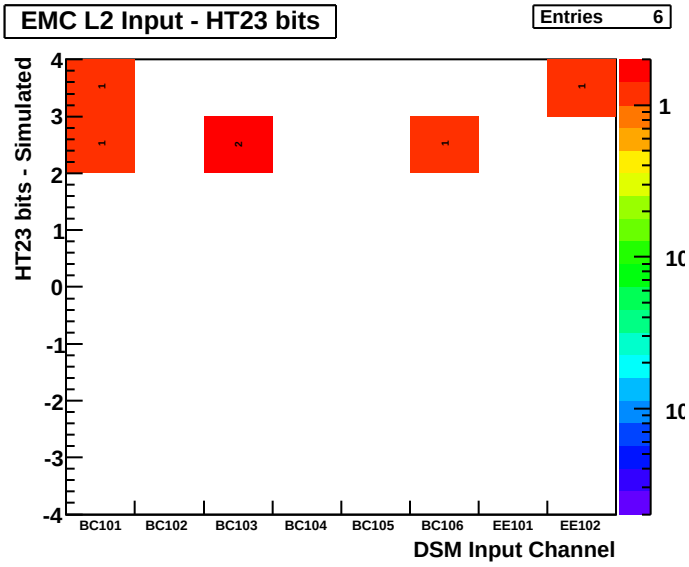

EMC L2 Input - Partial JP Sum
Entries 4341016
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

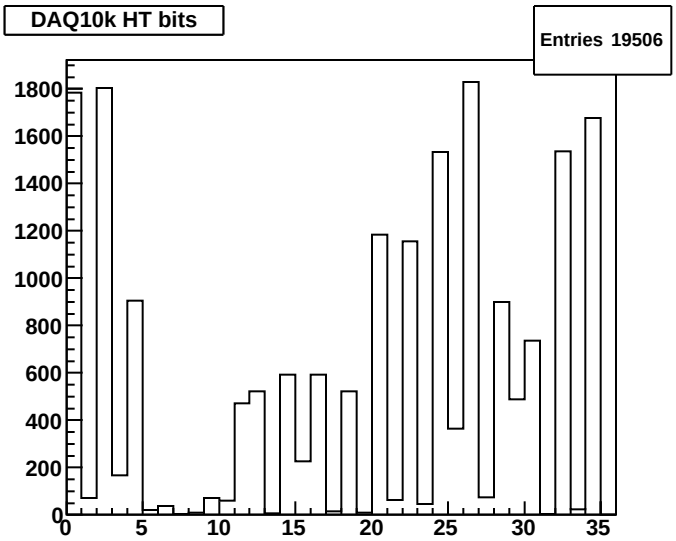

EMC L2 Input - Partial JP Sum
Entries 157
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

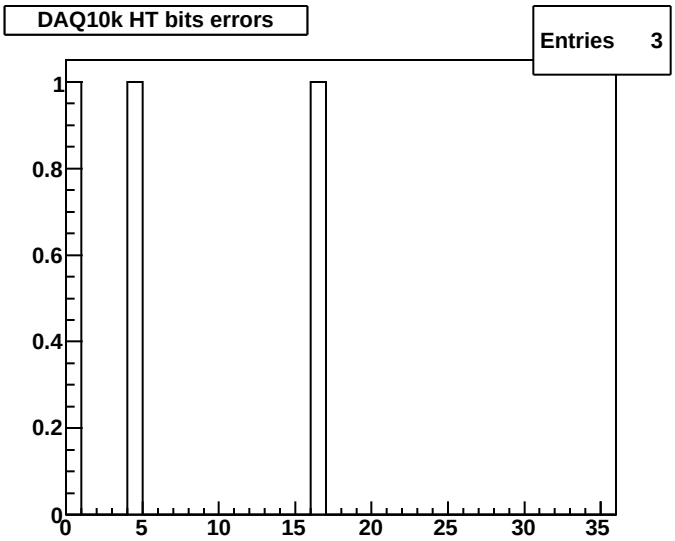

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4341016
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

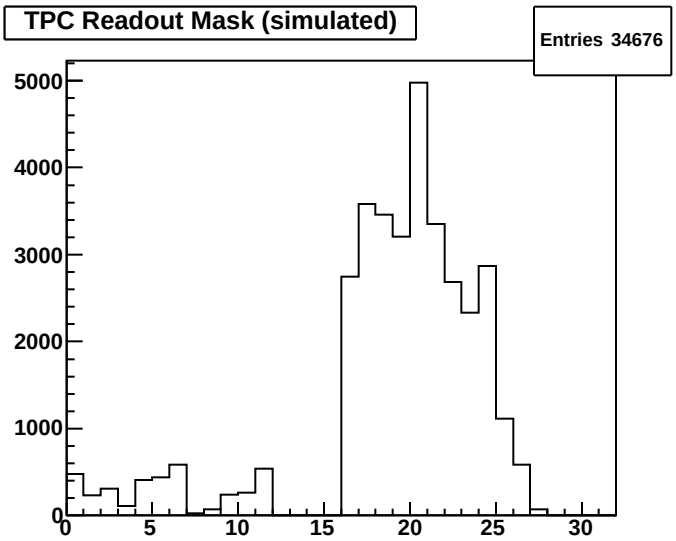

EMC L2 Input - HT01 bits/Partial JP ID
Entries 54
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

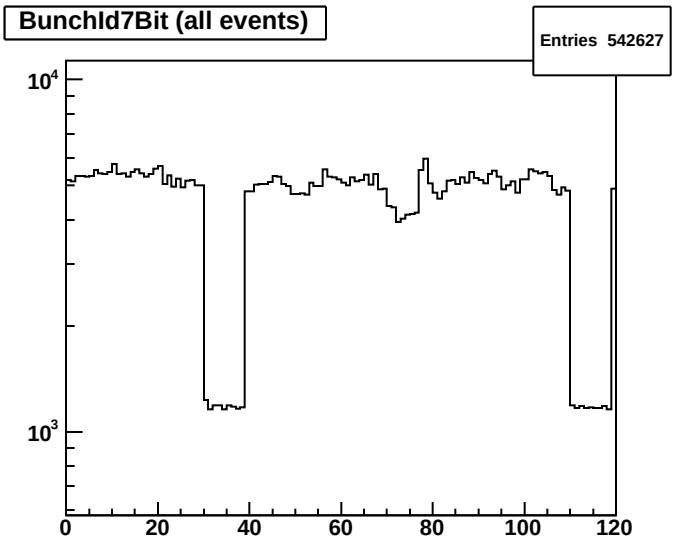

EMC L2 Input - HT23 bits
Entries 4341016
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

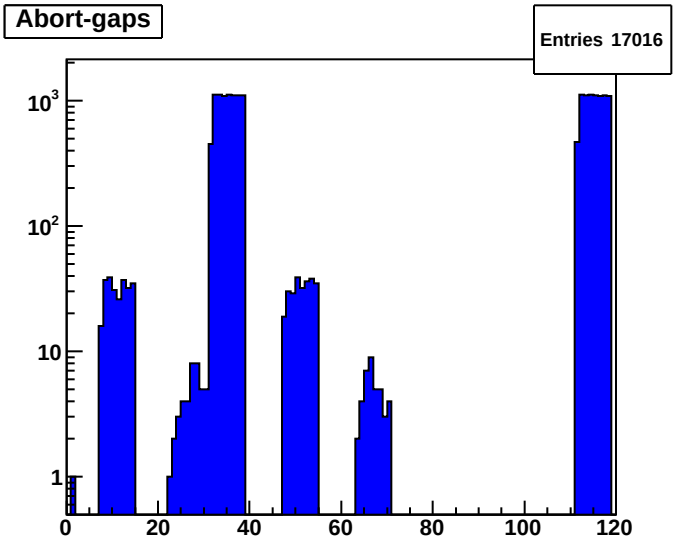

EMC L2 Input - HT23 bits
Entries 6
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

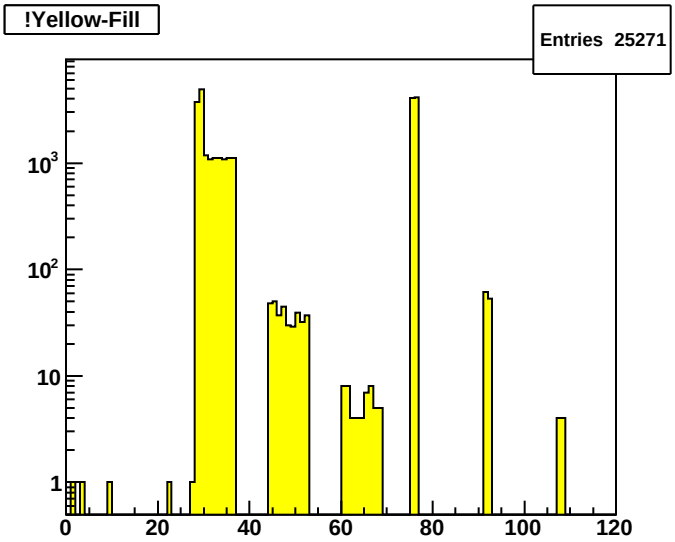

DAQ10k HT bits
Entries 19506

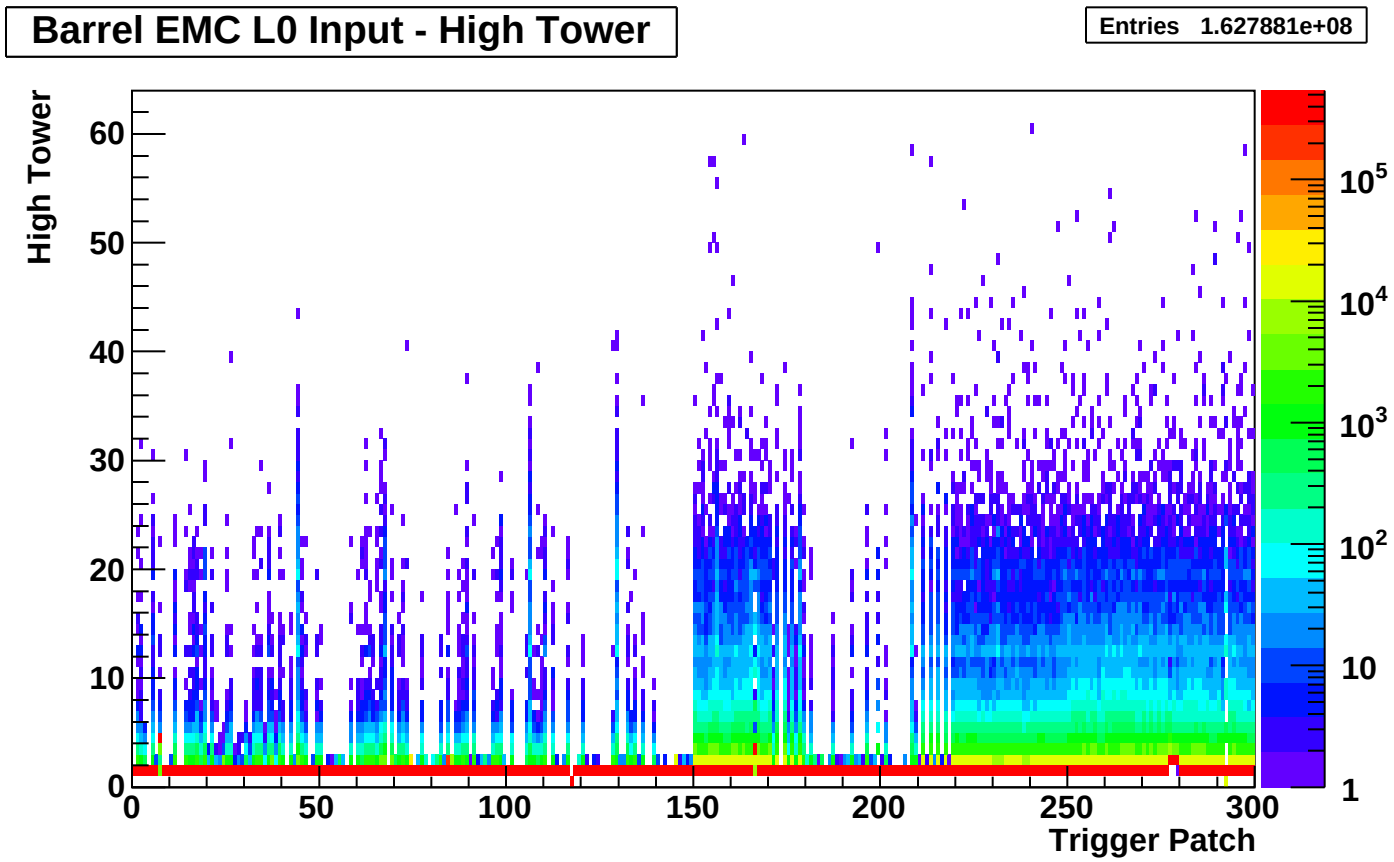

DAQ10k HT bits errors
Entries 3

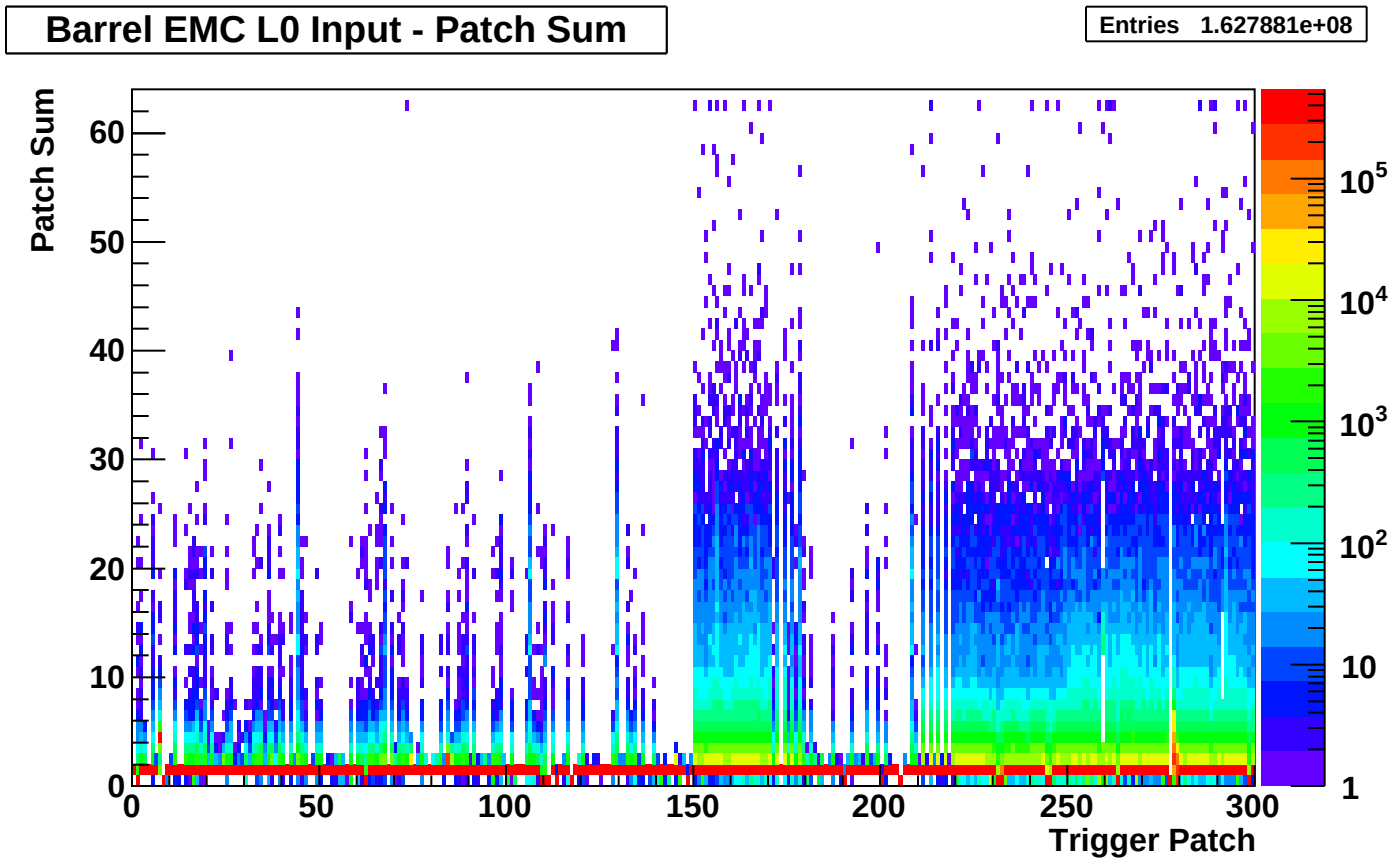

TPC Readout Mask (simulated)
Entries 34676

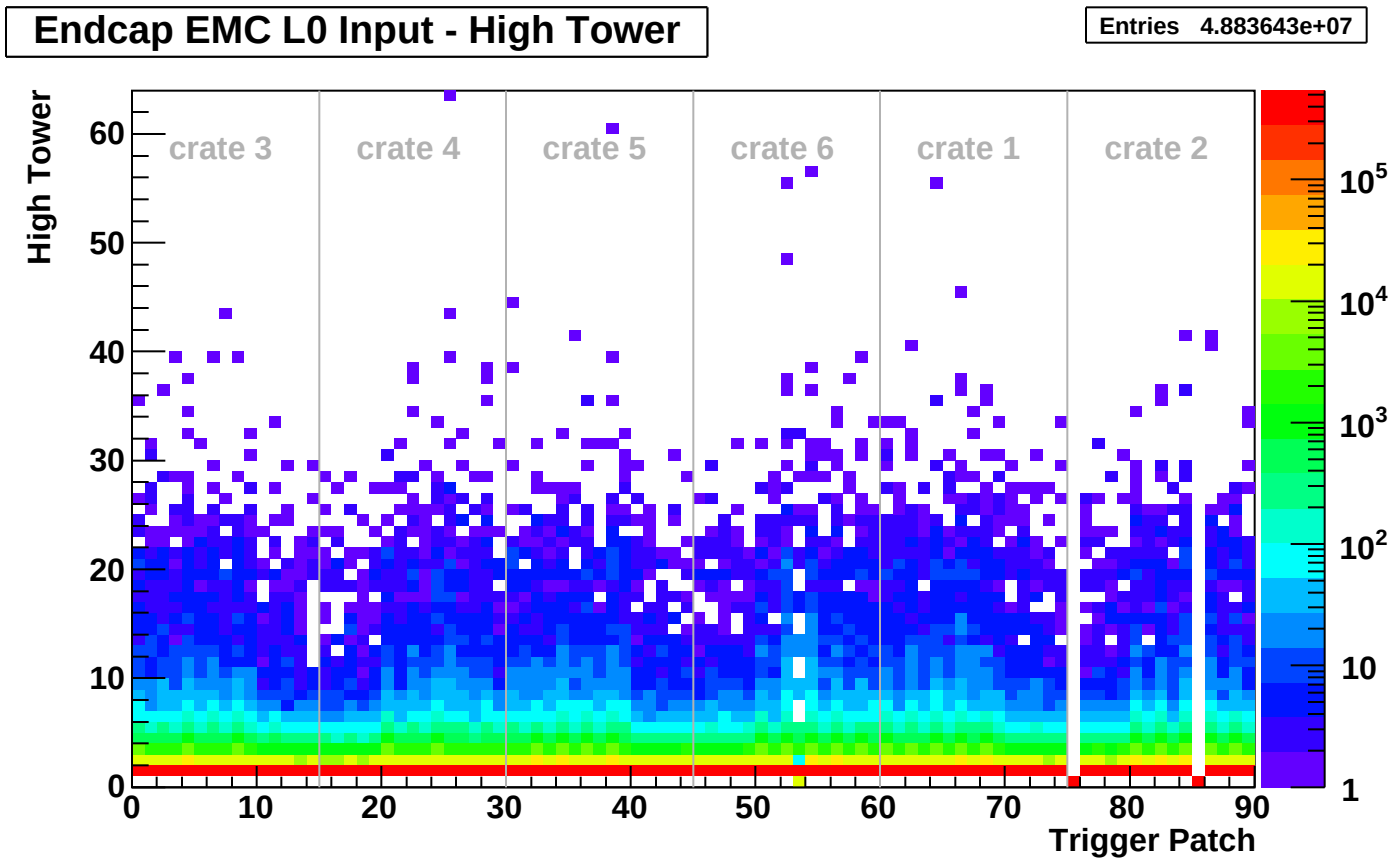

BunchId7Bit (all events)
Entries 542627

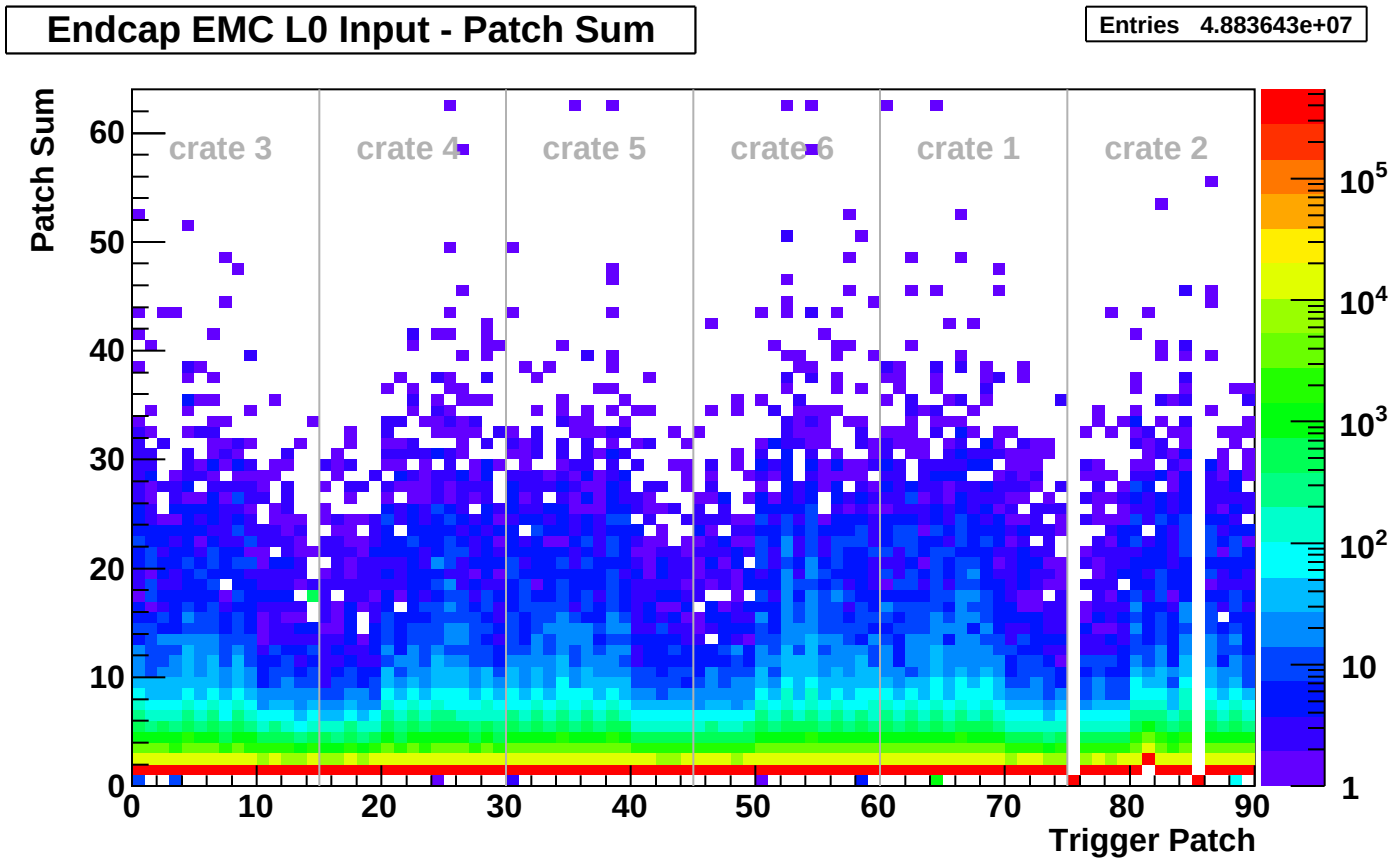

Abort-gaps
Entries 17016

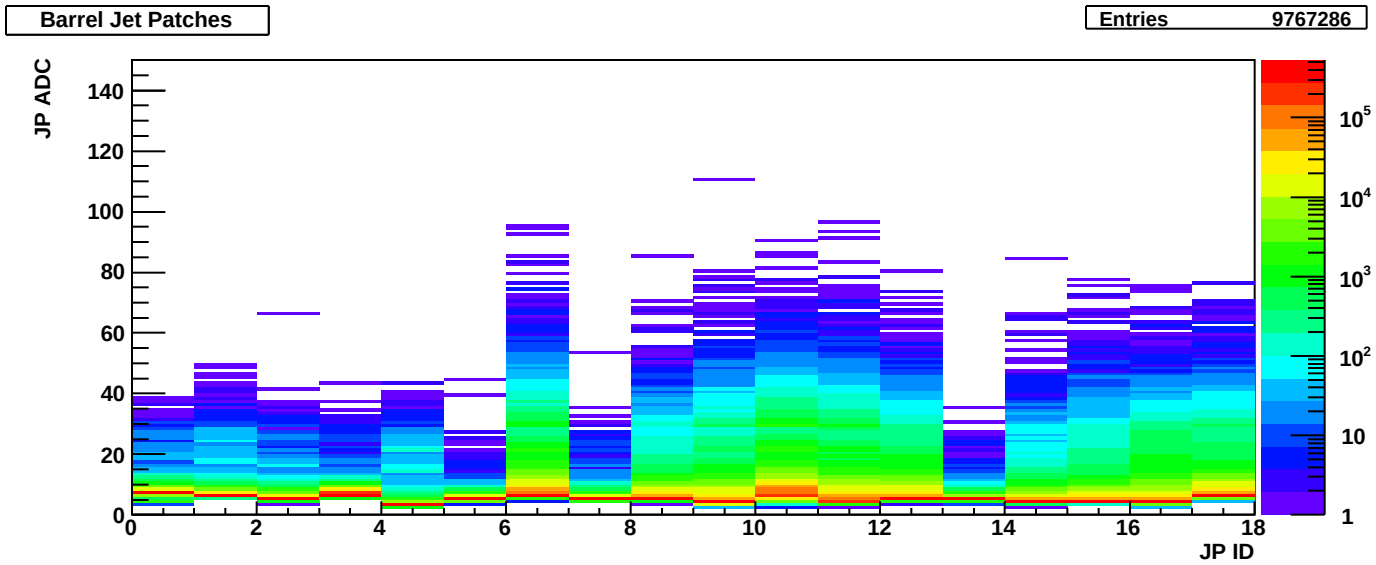

!Yellow-Fill
Entries 25271

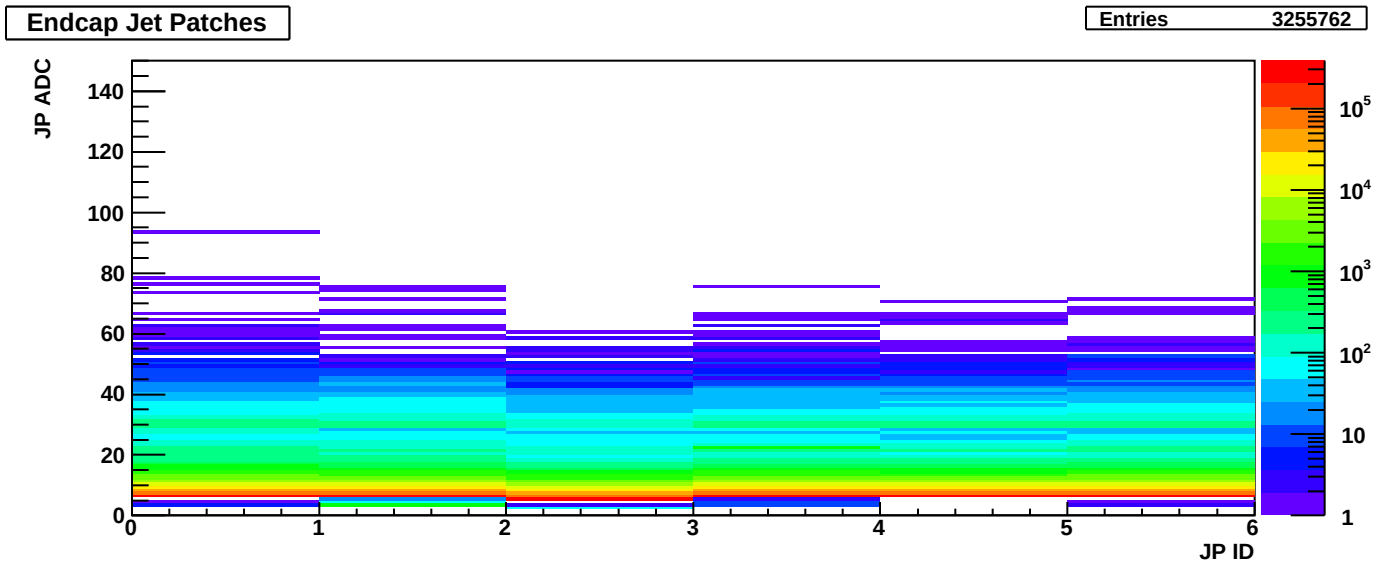

Barrel EMC L0 Input - High Tower
Entries 1.627881e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

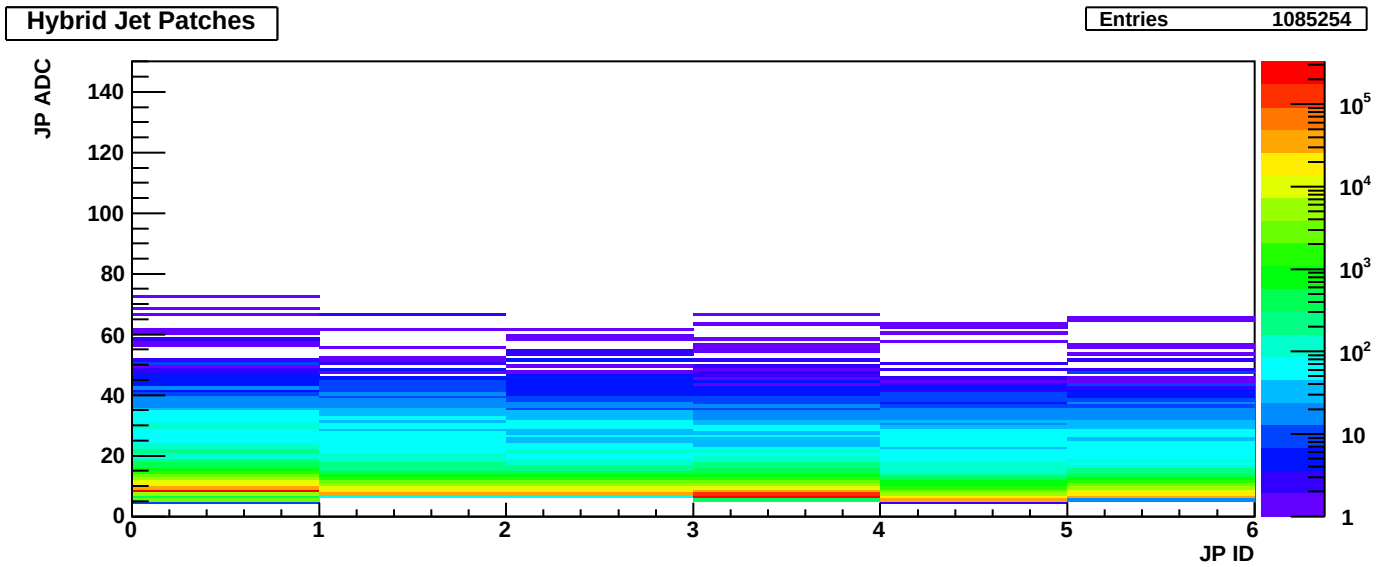

Barrel EMC L0 Input - Patch Sum
Entries 1.627881e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

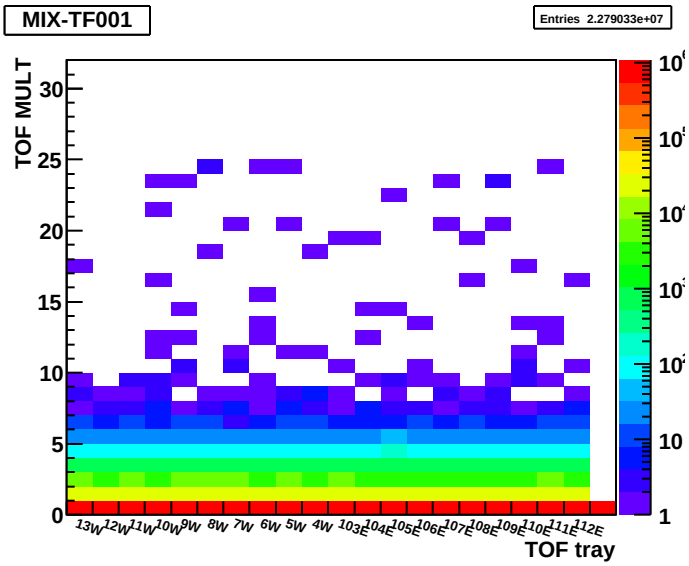

Endcap EMC L0 Input - High Tower
Entries 4.883643e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

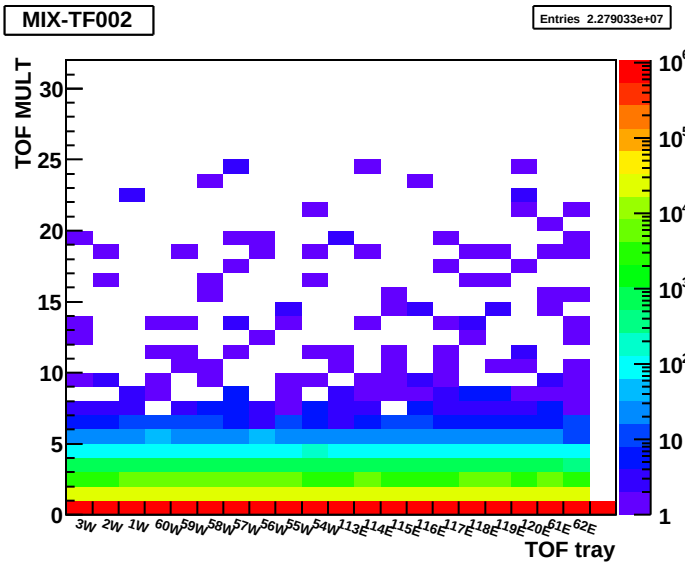

Endcap EMC L0 Input - Patch Sum
Entries 4.883643e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

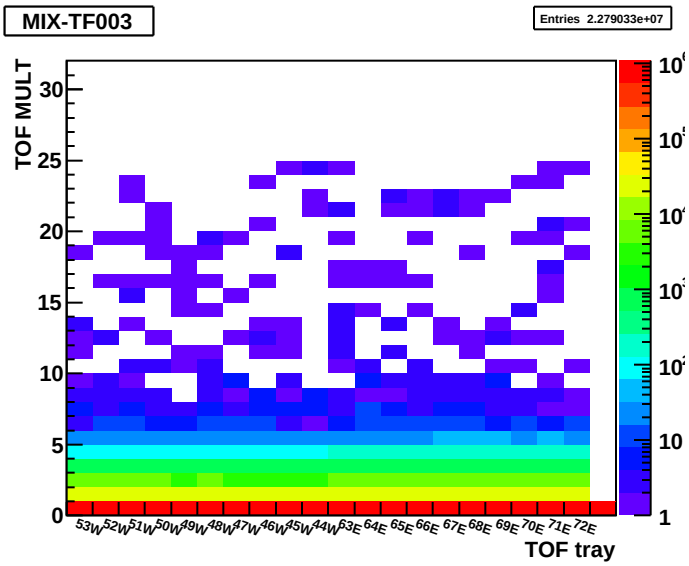

Barrel Jet Patches
Entries 9767286
JP ADC
JP ID

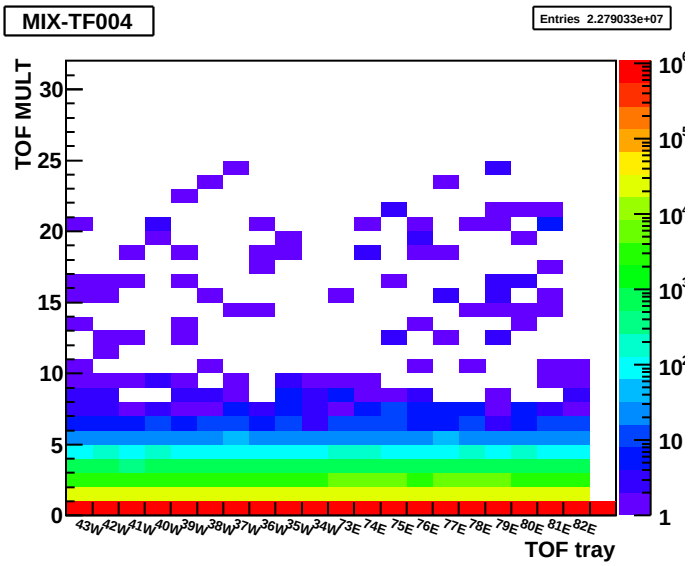

Endcap Jet Patches
Entries 3255762
JP ADC
JP ID

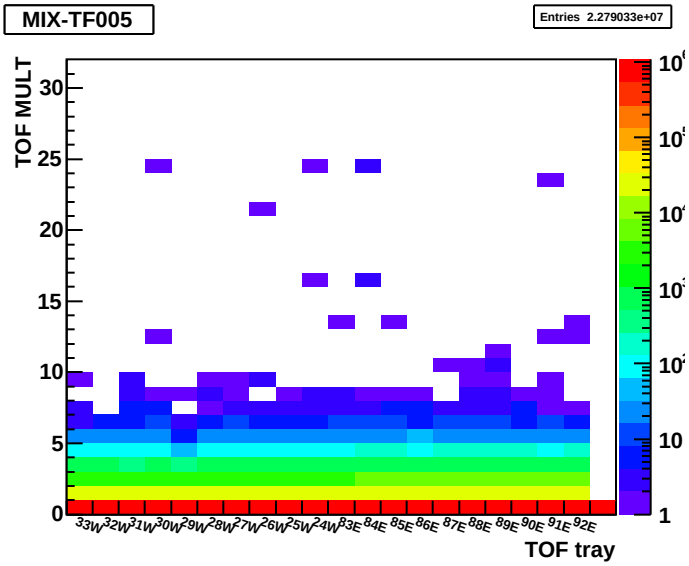

Hybrid Jet Patches
Entries 1085254
JP ADC
JP ID

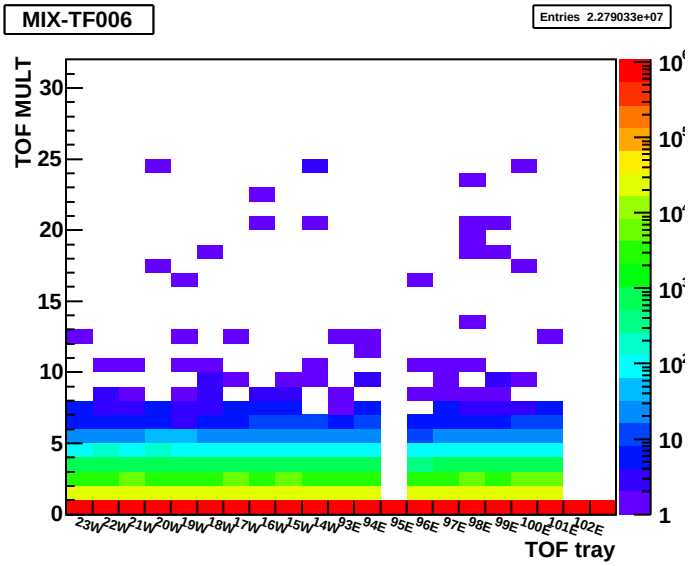

MIX-TF001
Entries 2.279033e+07
TOF MULT
TOF tray

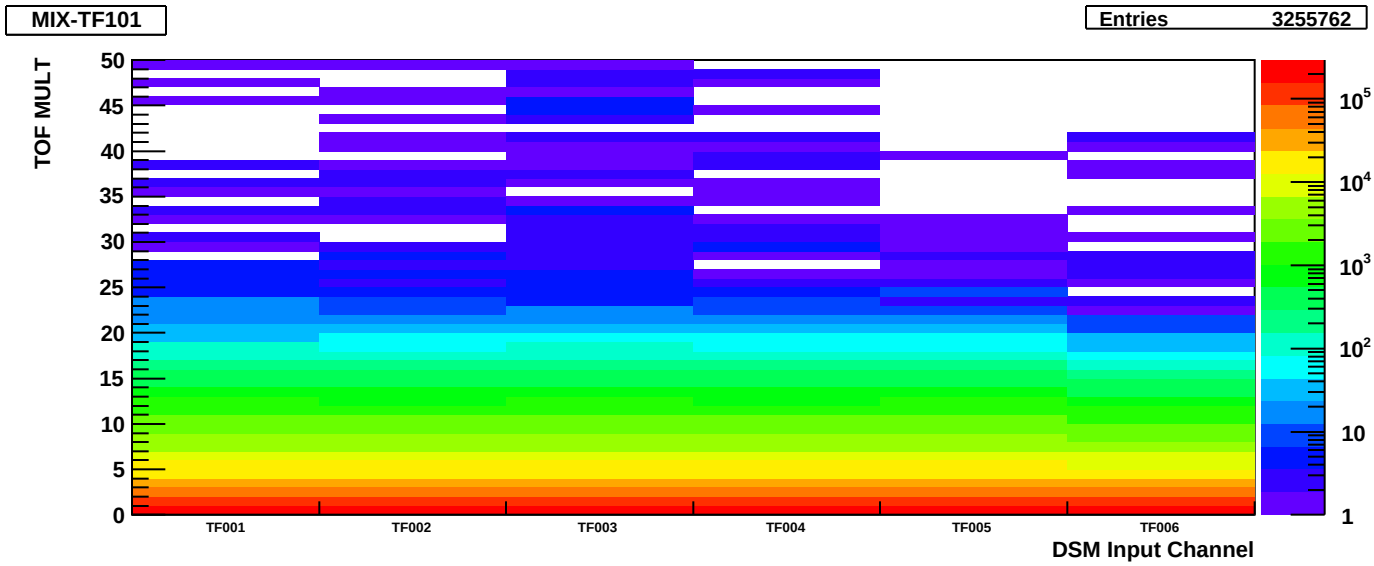

MIX-TF002
Entries 2.279033e+07
TOF MULT
TOF tray

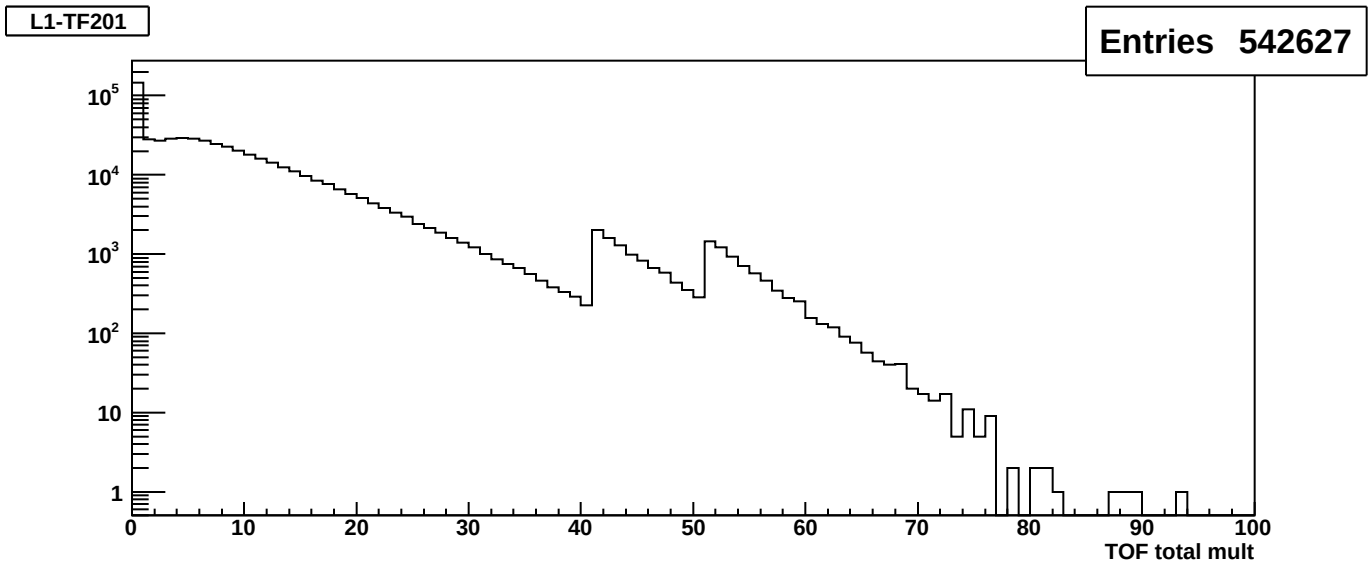

MIX-TF003
Entries 2.279033e+07
TOF MULT
TOF tray

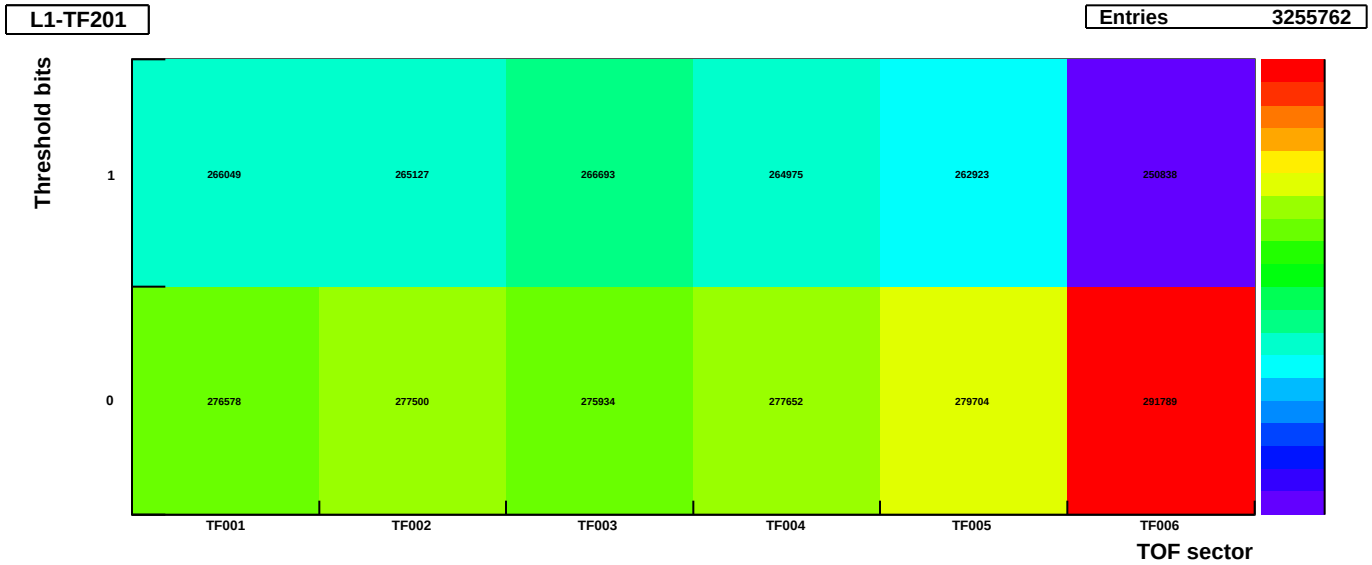

MIX-TF004
Entries 2.279033e+07
TOF MULT
TOF tray

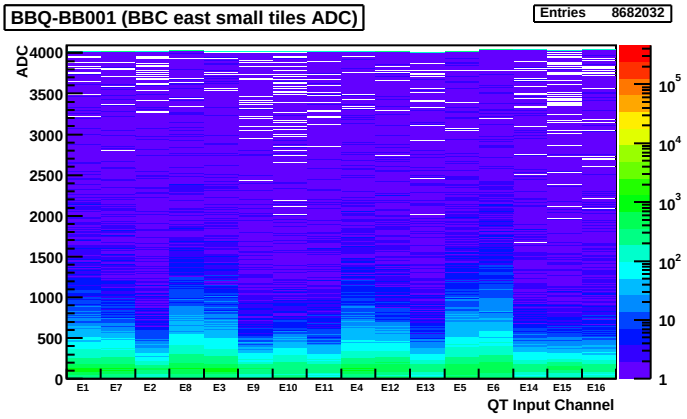

MIX-TF005
Entries 2.279033e+07
TOF MULT
TOF tray

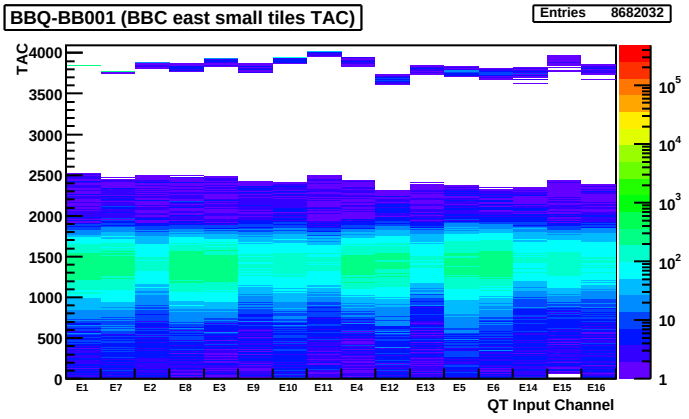

MIX-TF006
Entries 2.279033e+07
TOF MULT
TOF tray

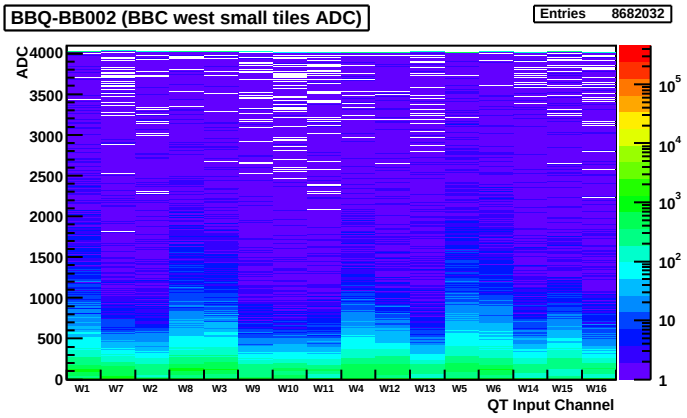

MIX-TF101
Entries 3255762
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

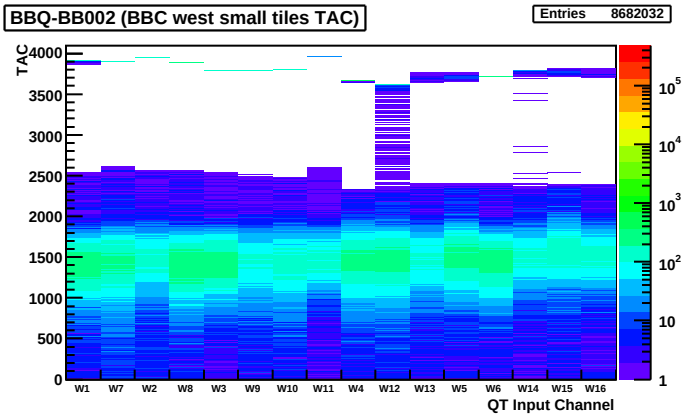

L1-TF201
Entries 542627
TOF total mult

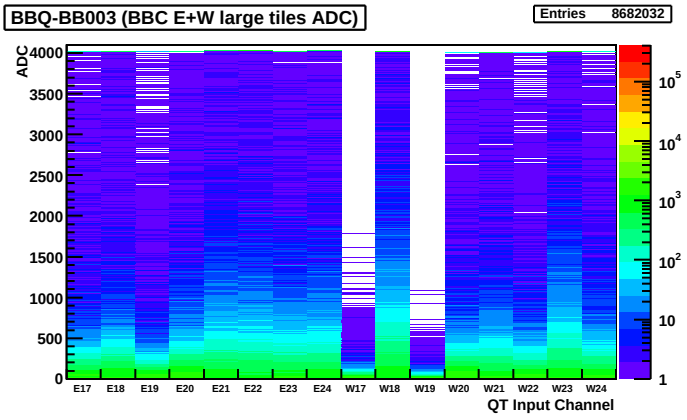

L1-TF201
Entries 3255762
Threshold bits
266049
265127
266693
264975
262923
250838
276578
277500
275934
277652
279704
291789
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

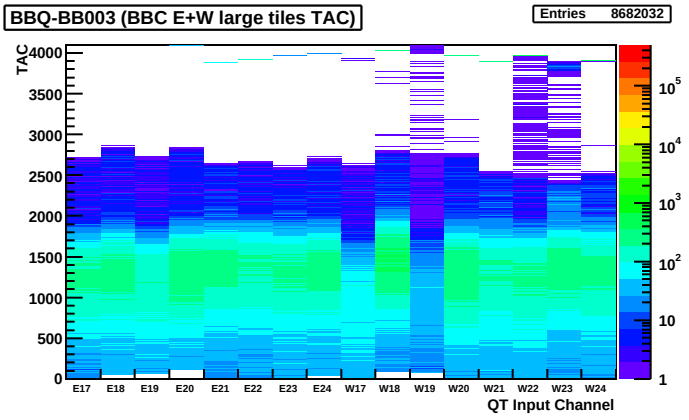

BBQ-BB001 (BBC east small tiles ADC)
Entries 8682032
ADC
QT Input Channel

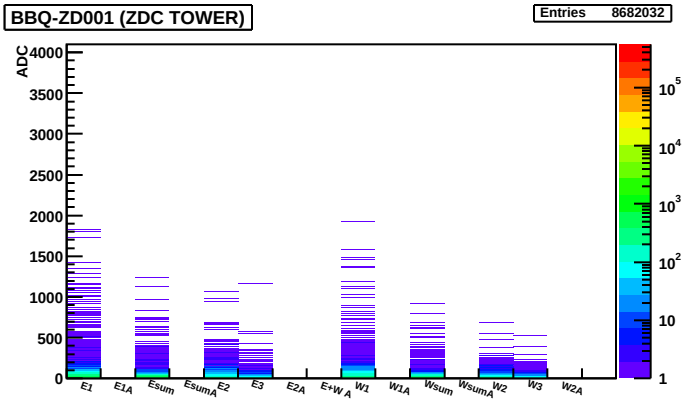

BBQ-BB001 (BBC east small tiles TAC)
Entries 8682032
TAC
QT Input Channel

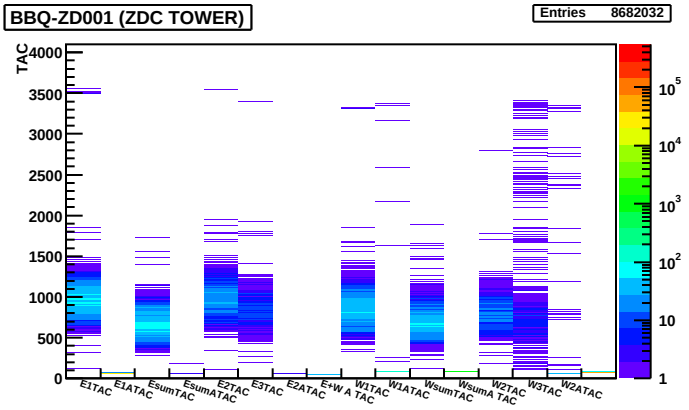

BBQ-BB002 (BBC west small tiles ADC)
Entries 8682032
ADC
QT Input Channel

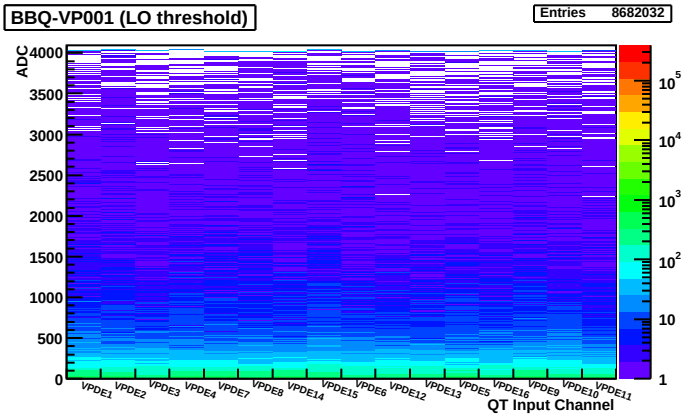

BBQ-BB002 (BBC west small tiles TAC)
Entries 8682032
TAC
QT Input Channel

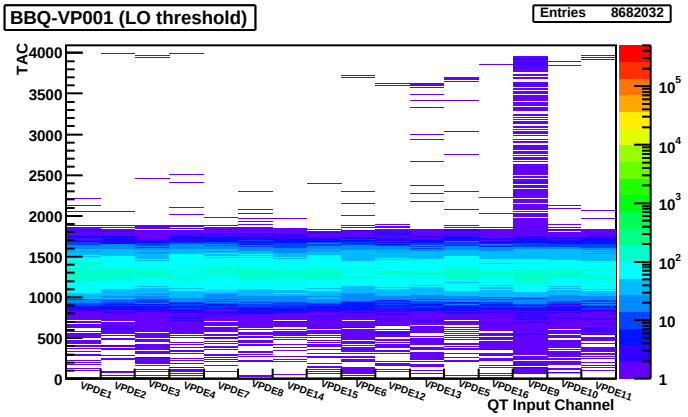

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8682032
ADC
QT Input Channel

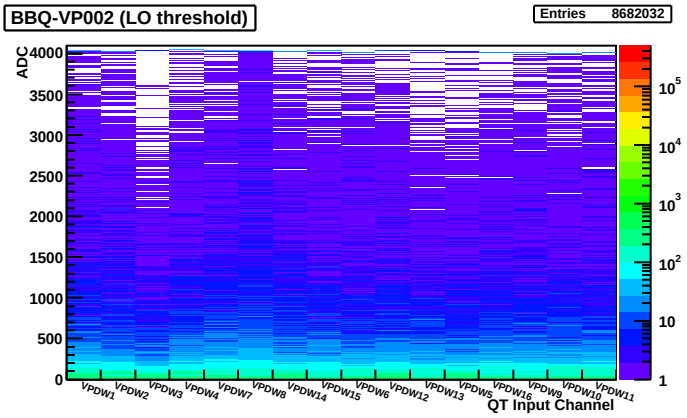

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8682032
TAC
QT Input Channel

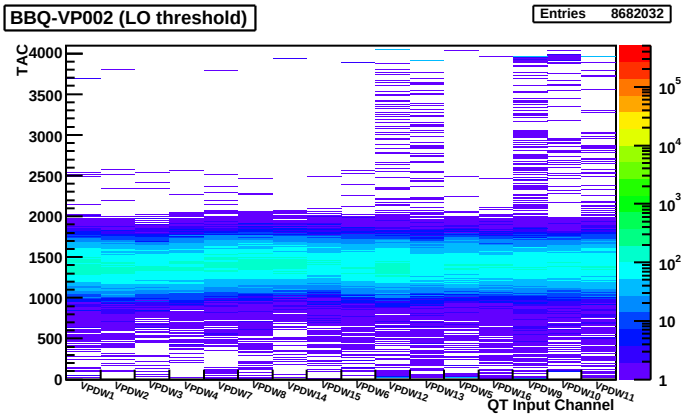

BBQ-ZD001 (ZDC TOWER)
Entries 8682032
ADC

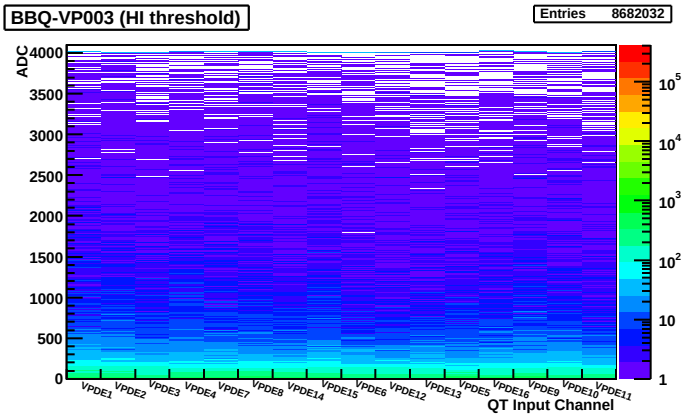

BBQ-ZD001 (ZDC TOWER)
Entries 8682032
TAC

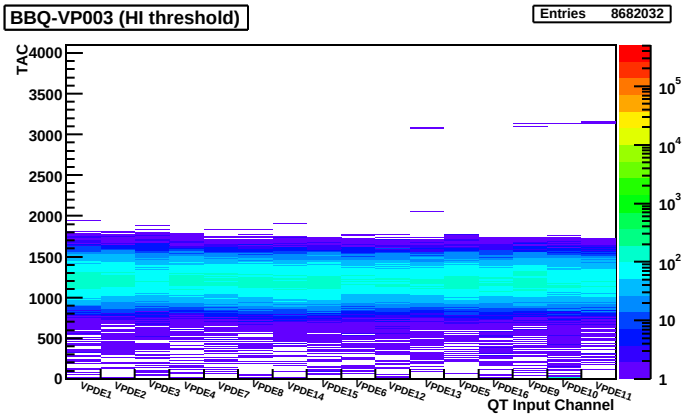

BBQ-VP001 (LO threshold)
Entries 8682032
ADC
QT Input Channel

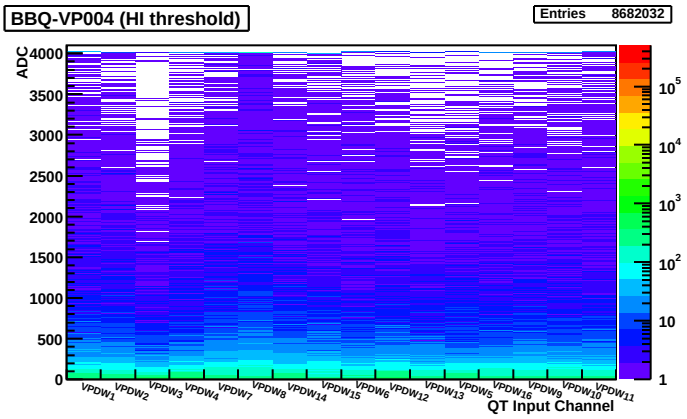

BBQ-VP001 (LO threshold)
Entries 8682032
TAC
QT Input Channel

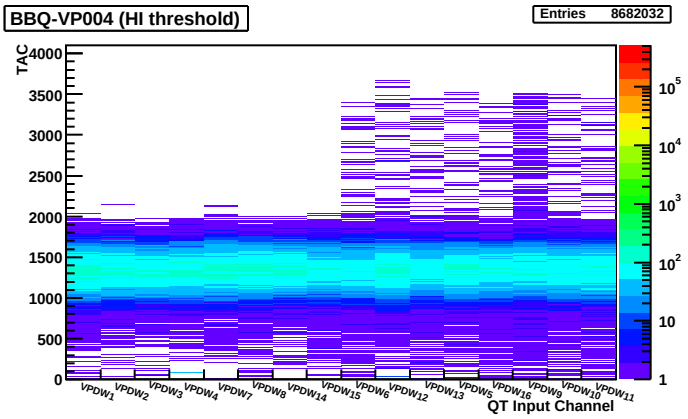

BBQ-VP002 (LO threshold)
Entries 8682032
ADC
QT Input Channel

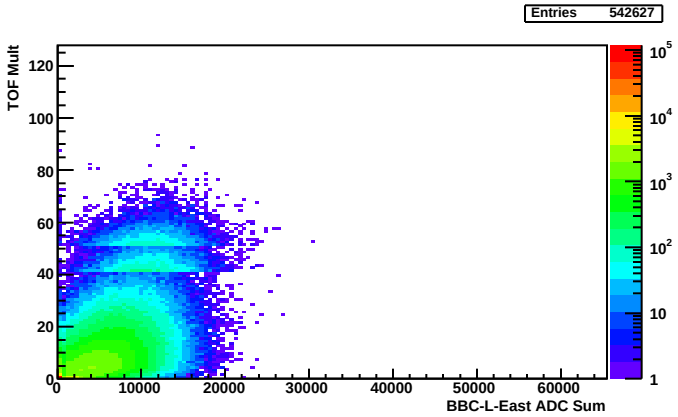

BBQ-VP002 (LO threshold)
Entries 8682032
TAC
QT Input Channel

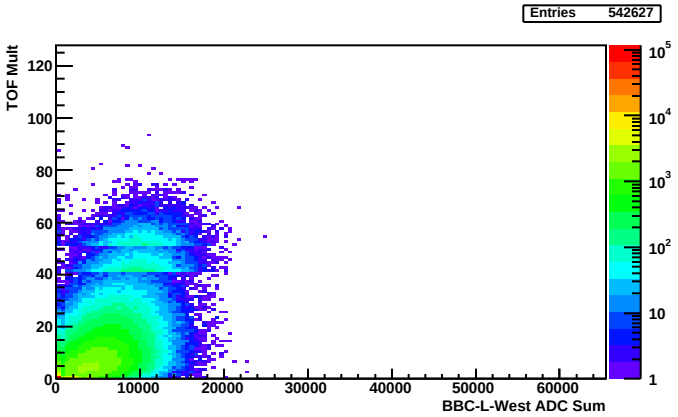

BBQ-VP003 (HI threshold)
Entries 8682032
ADC
QT Input Channel

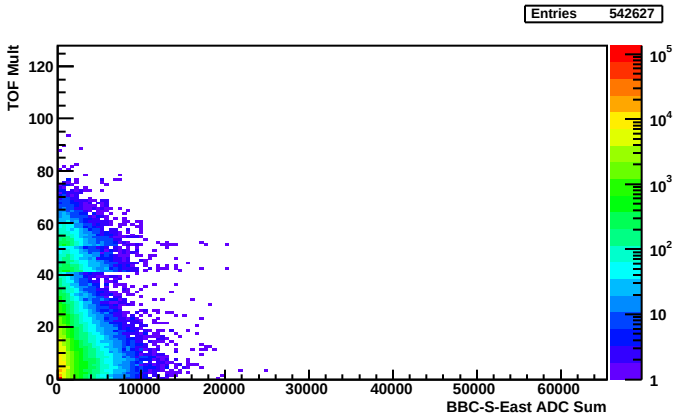

BBQ-VP003 (HI threshold)
Entries 8682032
TAC
QT Input Channel

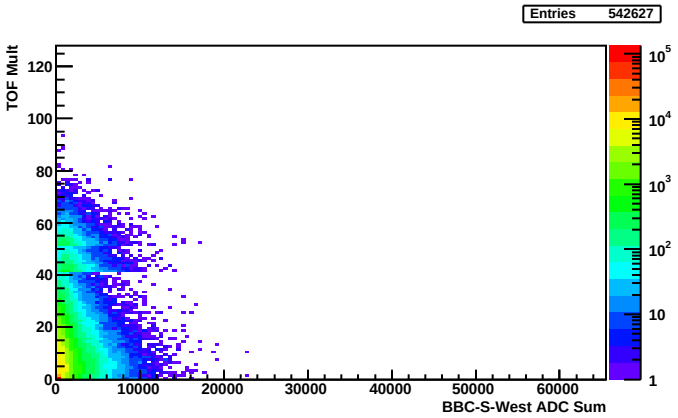

BBQ-VP004 (HI threshold)
Entries 8682032
ADC
QT Input Channel

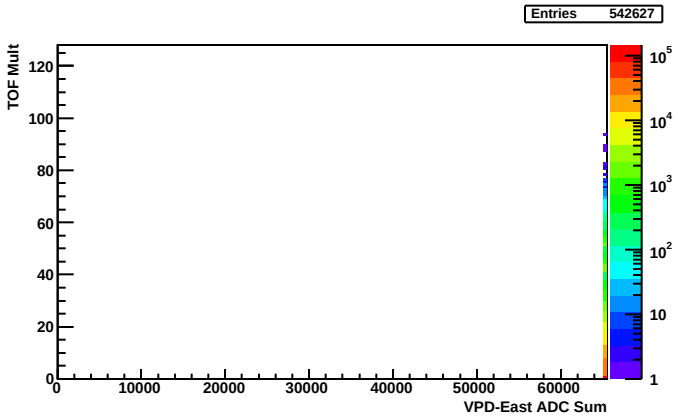

BBQ-VP004 (HI threshold)
Entries 8682032
TAC
QT Input Channel

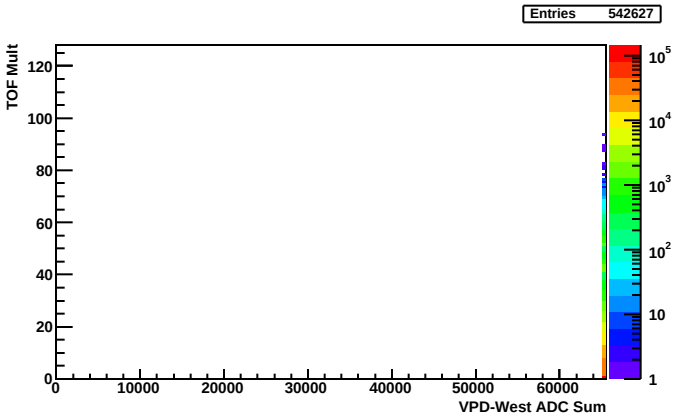

Entries 542627
TOF Mult
BBC-L-East ADC Sum

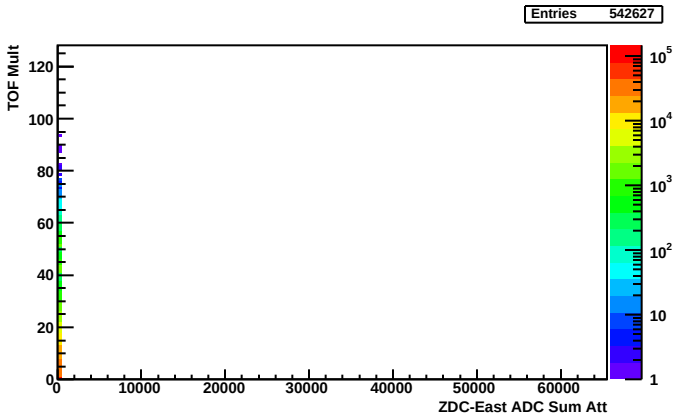

Entries 542627
TOF Mult
BBC-L-West ADC Sum

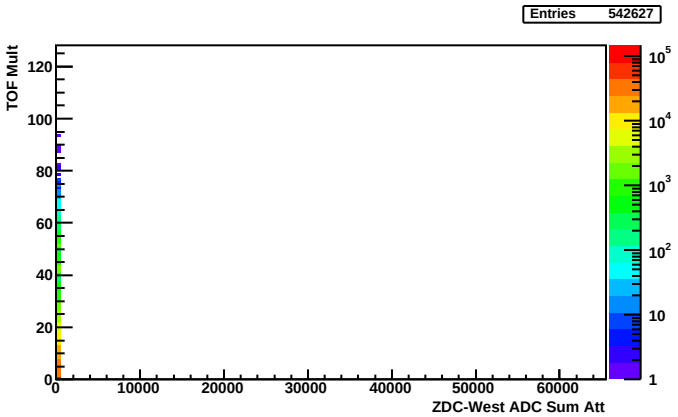

Entries 542627
TOF Mult
BBC-S-East ADC Sum

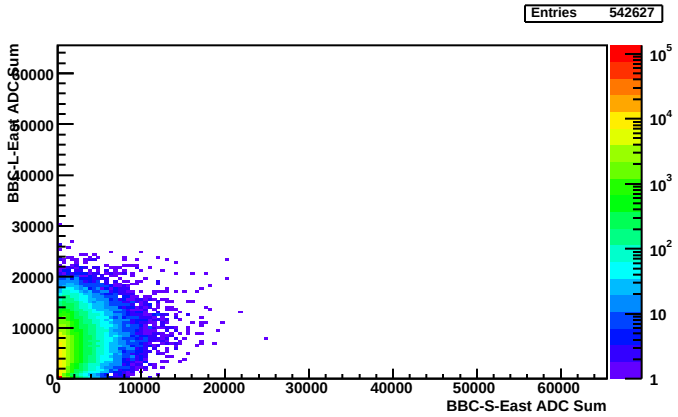

Entries 542627
TOF Mult
BBC-S-West ADC Sum

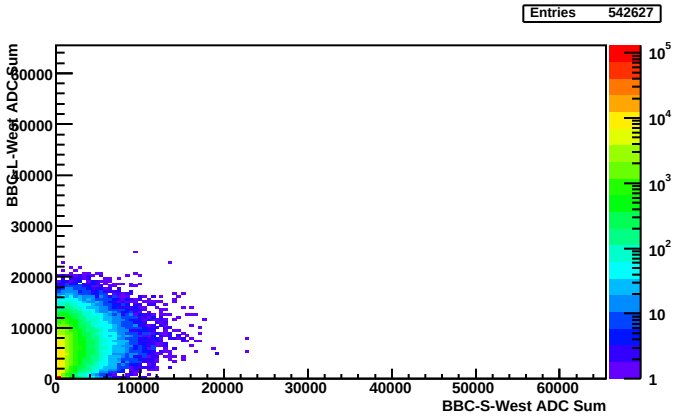

Entries 542627
TOF Mult
VPD-East ADC Sum

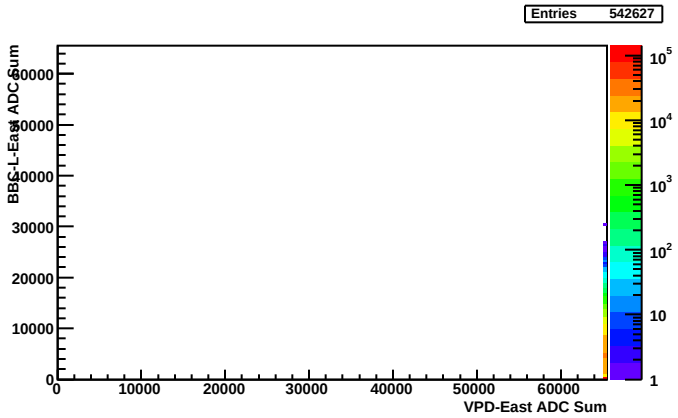

Entries 542627
TOF Mult
VPD-West ADC Sum

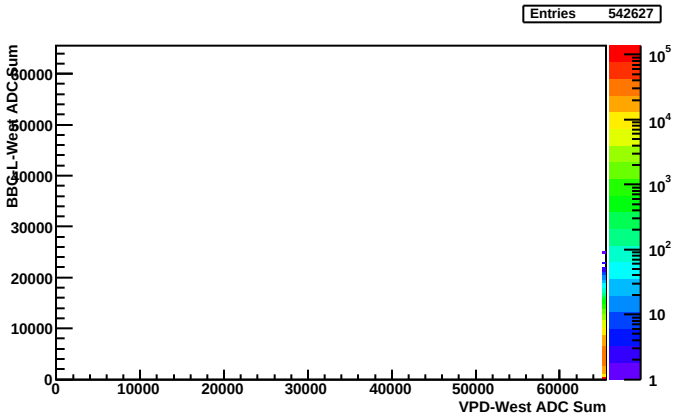

Entries 542627
TOF Mult
ZDC-East ADC Sum Att

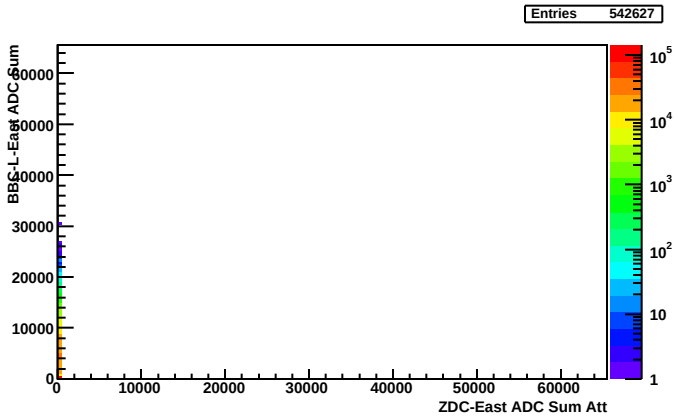

Entries 542627
TOF Mult
ZDC-West ADC Sum Att


Entries 542627
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 542627
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 542627
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 542627
BBC-L-West ADC Sum
VPD-West ADC Sum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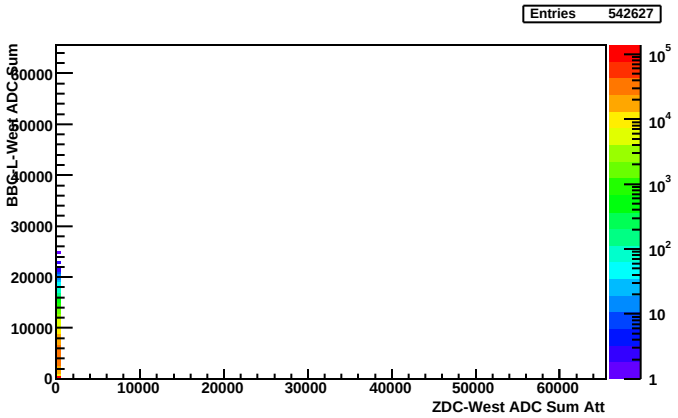
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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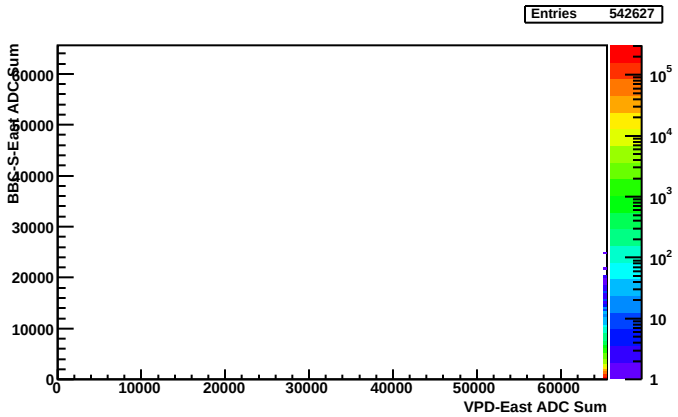
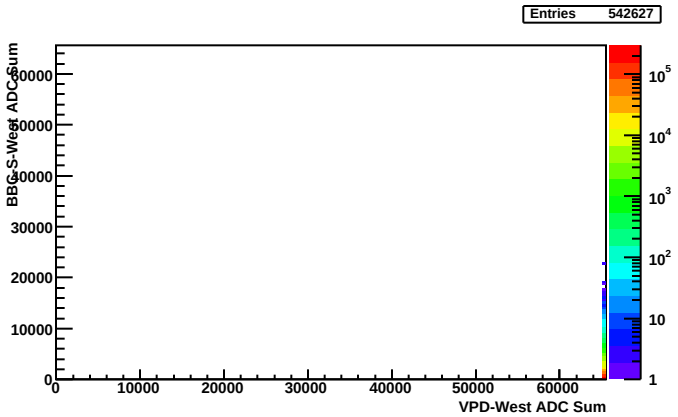
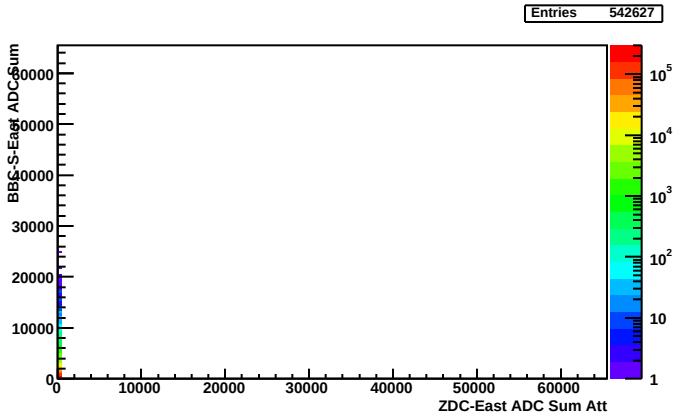
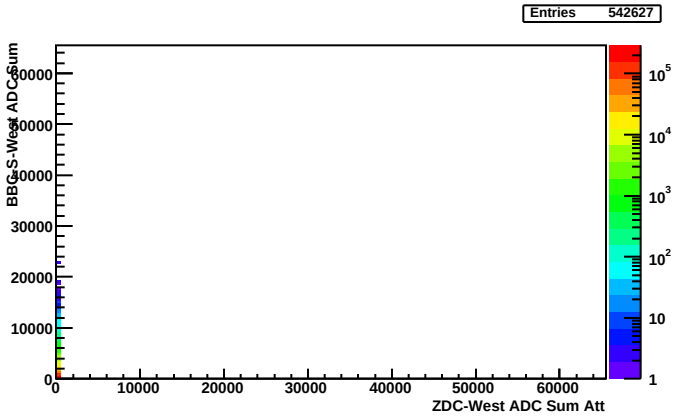
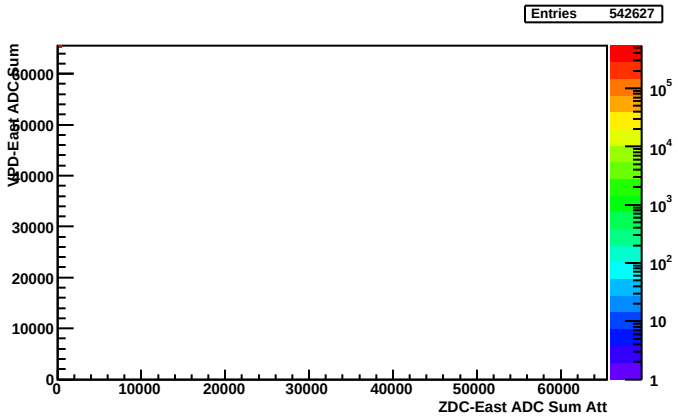
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

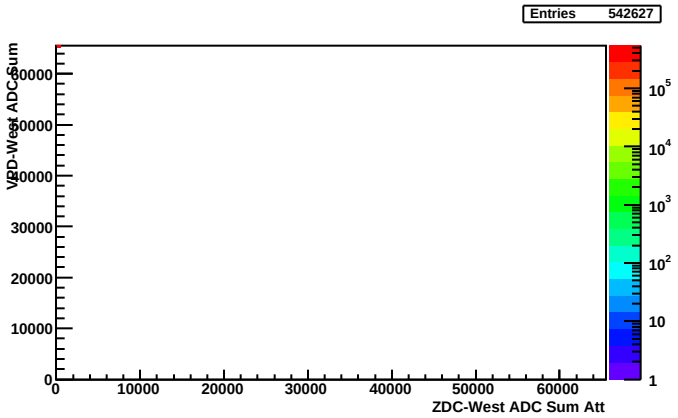

Entries 542627
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 542627
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 542627
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 542627
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 542627
VPD-East ADC Sum
ZDC-East ADC Sum Att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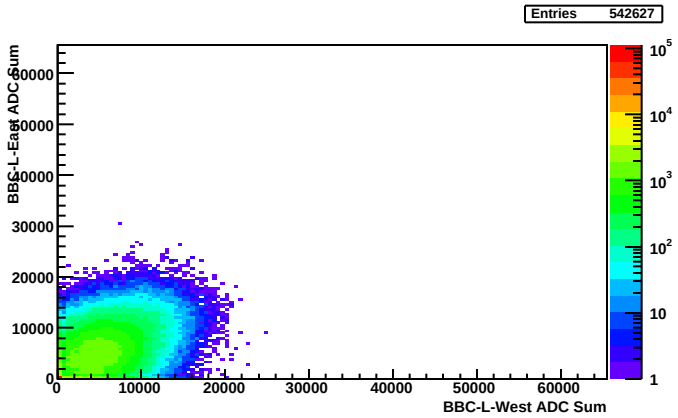
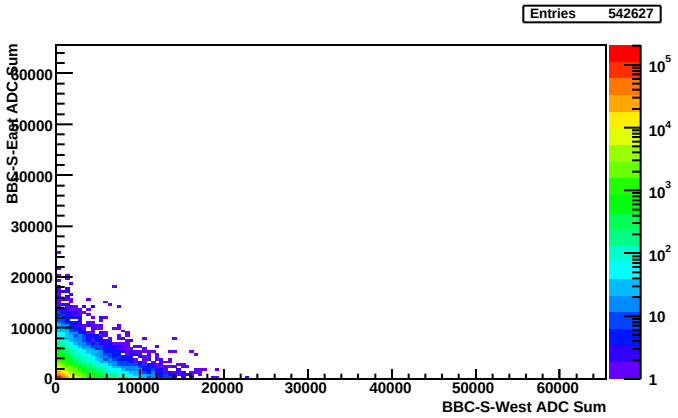
VPD-West ADC Sum
ZDC-West ADC Sum Att


Entries 542627
BBC-L-East ADC Sum
BBC-L-West ADC Sum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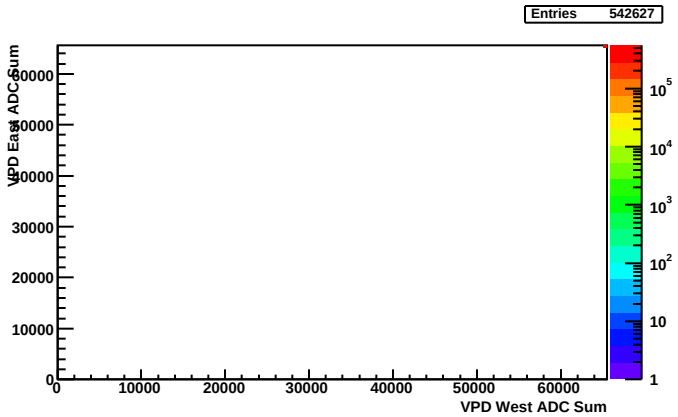
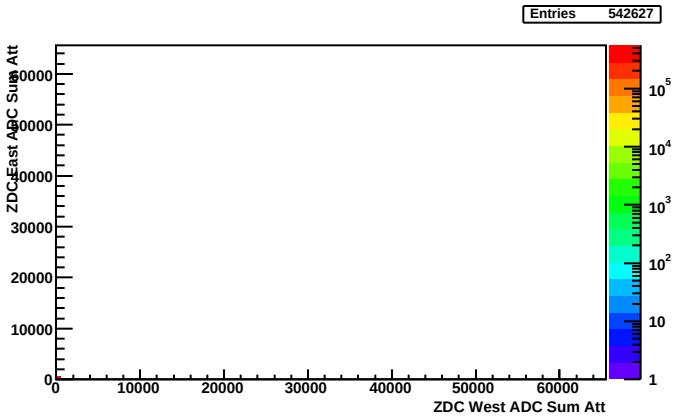
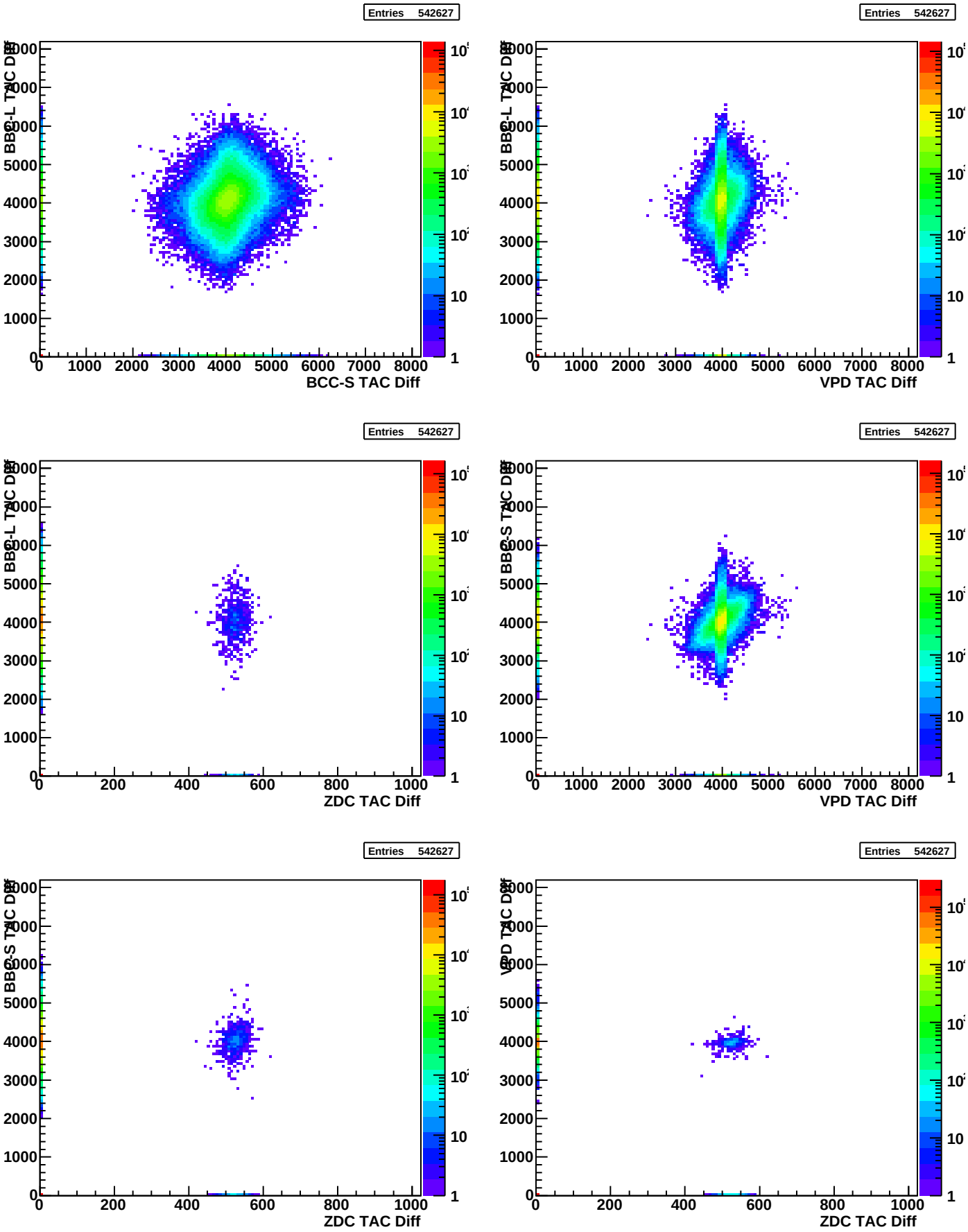
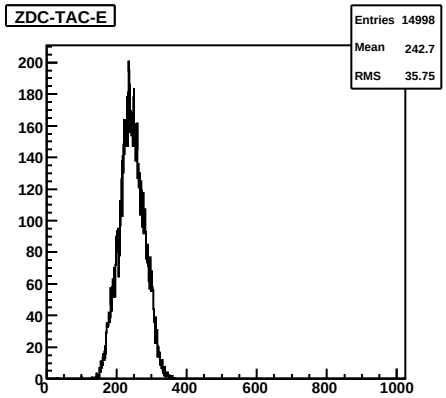
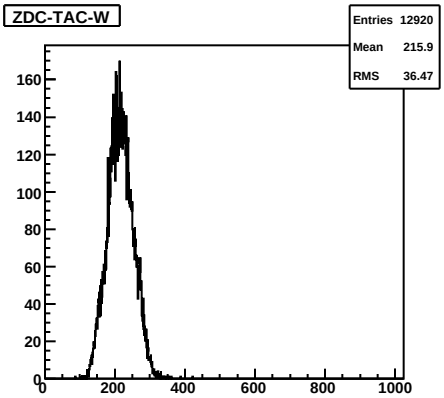
BBC-S-East ADC Sum
BBC-S-West ADC Sum

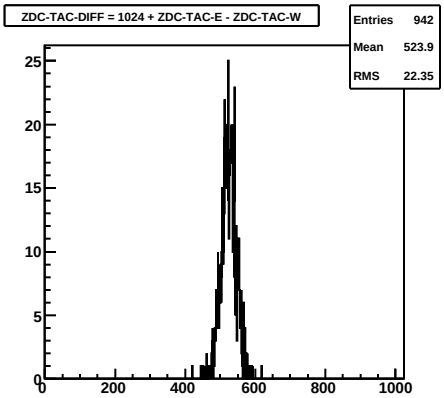

Entries 542627
VPD East ADC Sum
VPD West ADC Sum

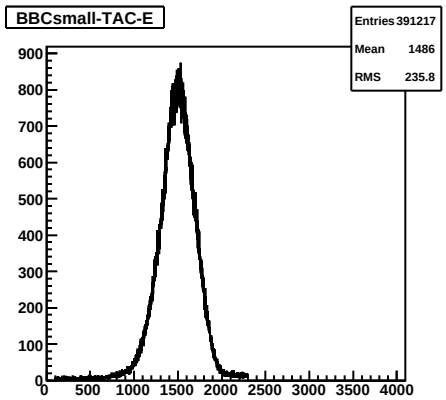

Entries 542627
ZDC East ADC Sum Att
ZDC West ADC Sum Att

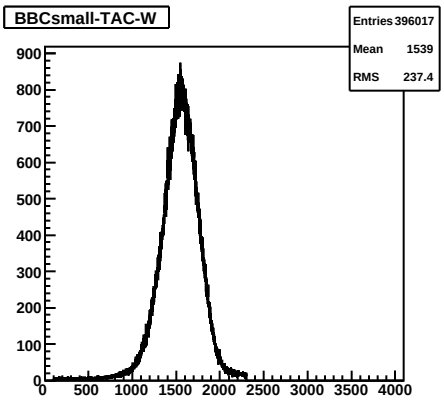

Entries 542627
BBC-L TAC Diff
BCC-S TAC Diff
Entries 542627
BBC-L TAC Diff
VPD TAC Diff
Entries 542627
BBC-L TAC Diff
ZDC TAC Diff
Entries 542627
BBC-S TAC Diff
VPD TAC Diff
Entries 542627
BBC-S TAC Diff
ZDC TAC Diff
Entries 542627
VPD TAC Diff
ZDC TAC Diff

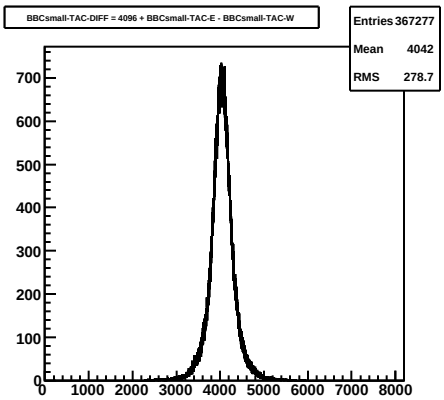

ZDC-TAC-E
Entries 14998
Mean 242.7
RMS 35.75

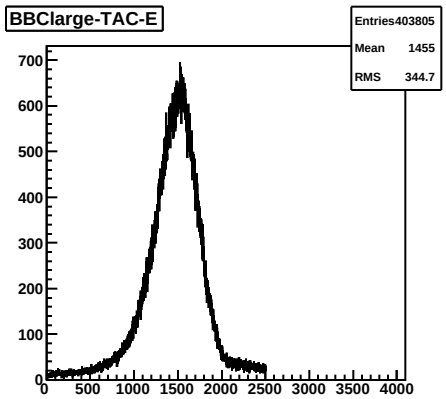

ZDC-TAC-W
Entries 12920
Mean 215.9
RMS 36.47

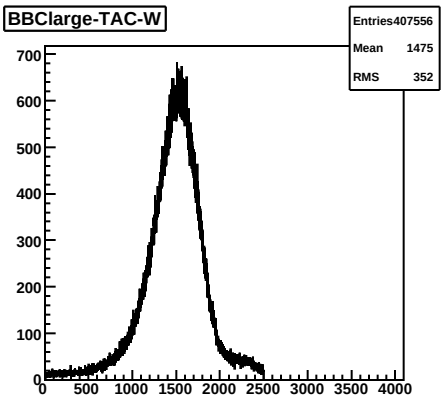

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 942
Mean 523.9
RMS 22.35

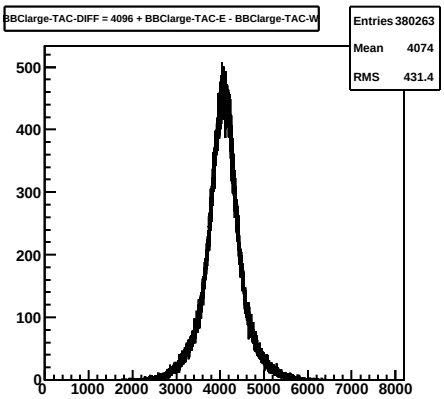

BBCsmall-TAC-E
Entries 391217
Mean 1486
RMS 235.8

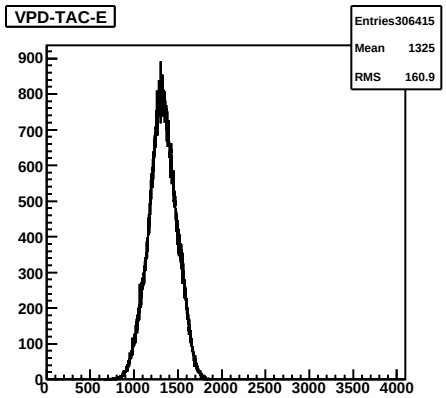

BBCsmall-TAC-W
Entries 396017
Mean 1539
RMS 237.4

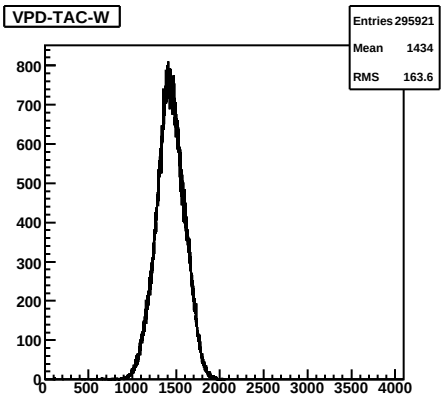

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 367277
Mean 4042
RMS 278.7

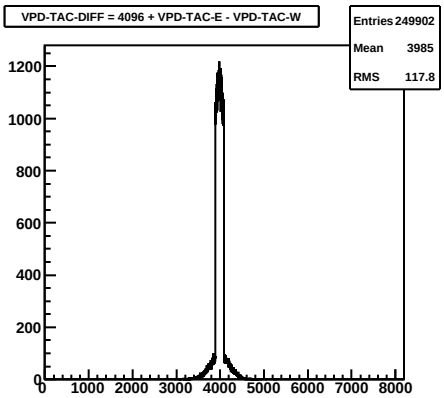

BBClarge-TAC-E
Entries 403805
Mean 1455
RMS 344.7

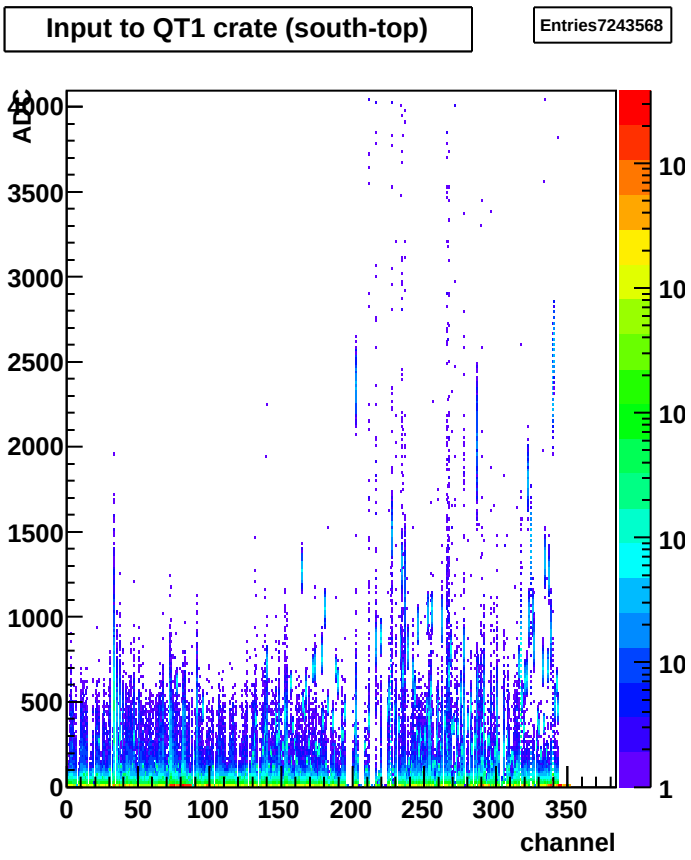

BBClarge-TAC-W
Entries 407556
Mean 1475
RMS 352

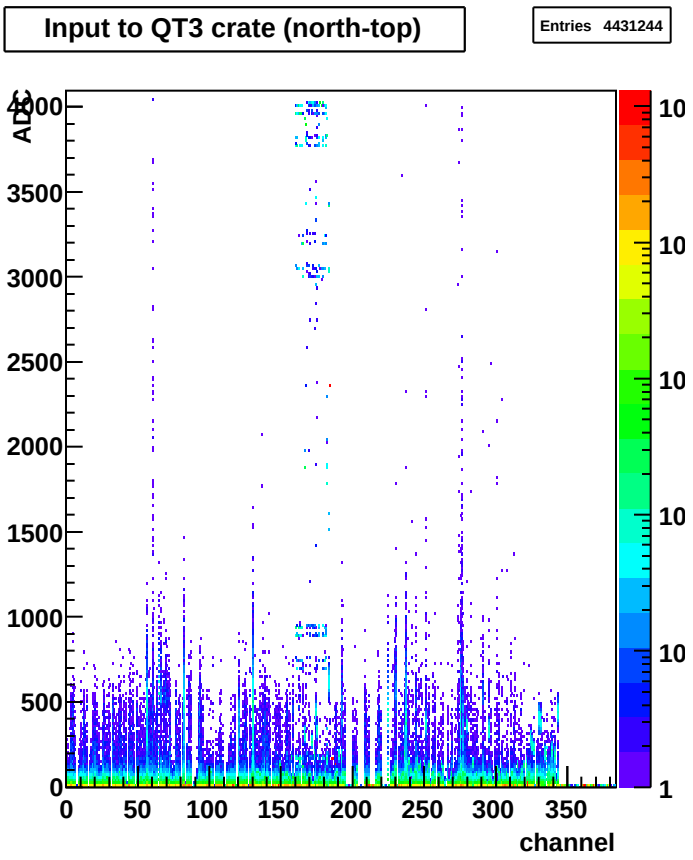

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 380263
Mean 4074
RMS 431.4

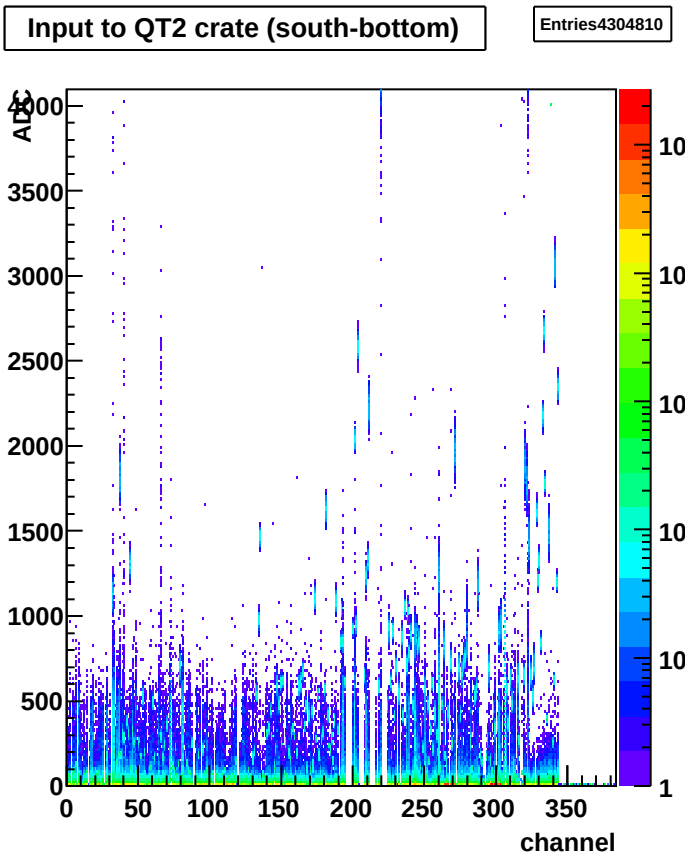

VPD-TAC-E
Entries 306415
Mean 1325
RMS 160.9

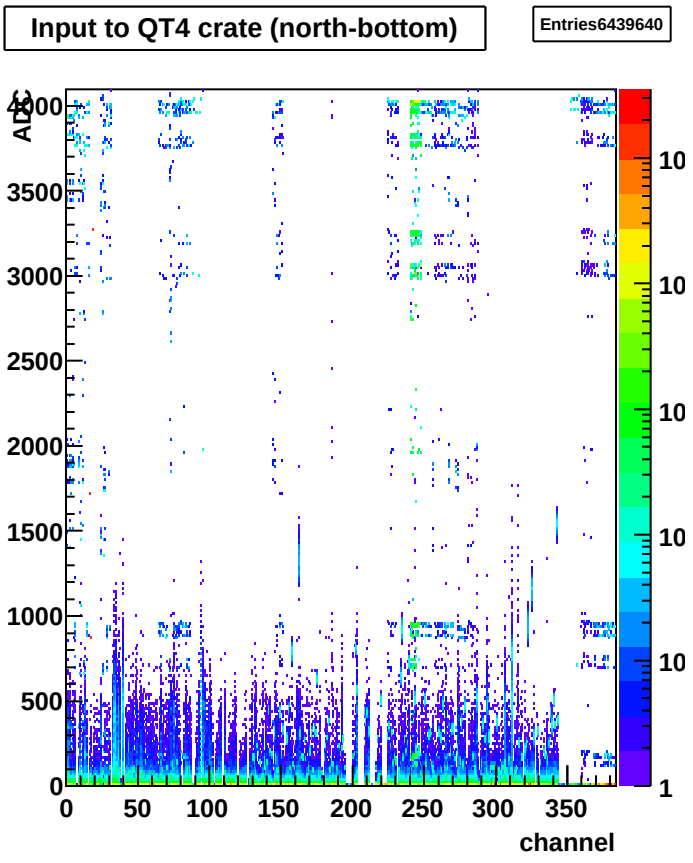

VPD-TAC-W
Entries 295921
Mean 1434
RMS 163.6

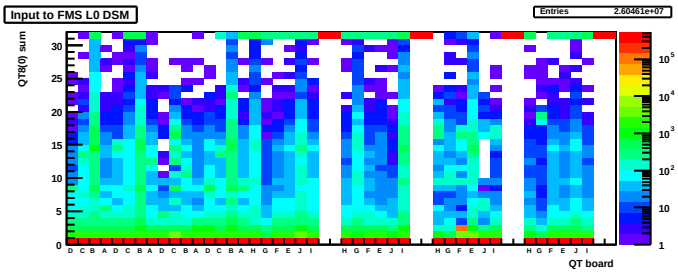

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 249902
Mean 3985
RMS 117.8

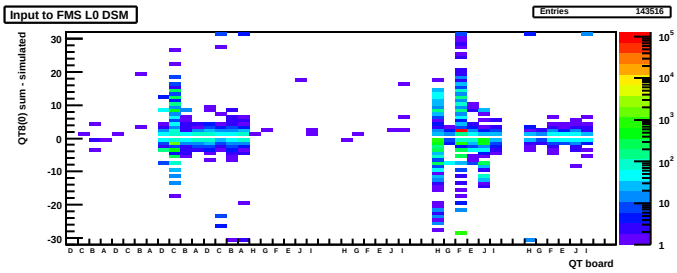

Input to QT1 crate (south-top)
Entries7243568
ADC
channel

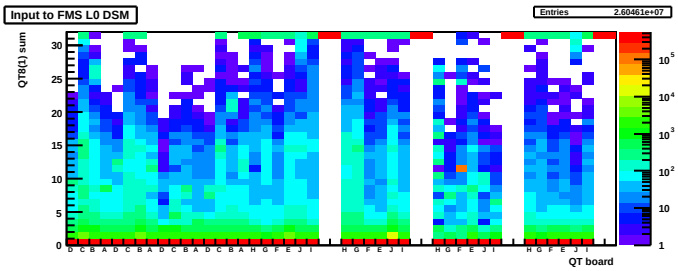

Input to QT3 crate (north-top)
Entries 4431244
ADC
channel

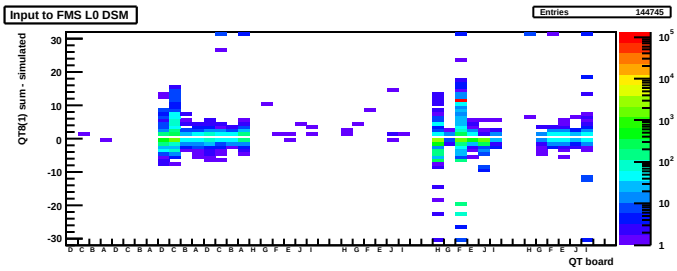

Input to QT2 crate (south-bottom)
Entries4304810
ADC
channel

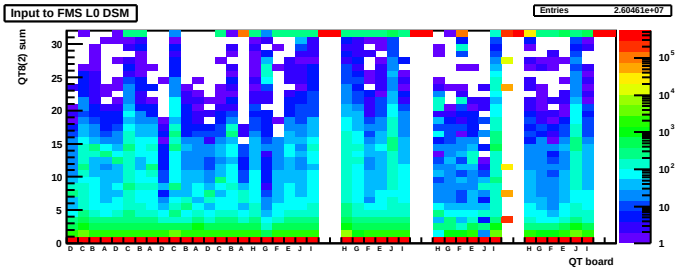

Input to QT4 crate (north-bottom)
Entries6439640
ADC
channel

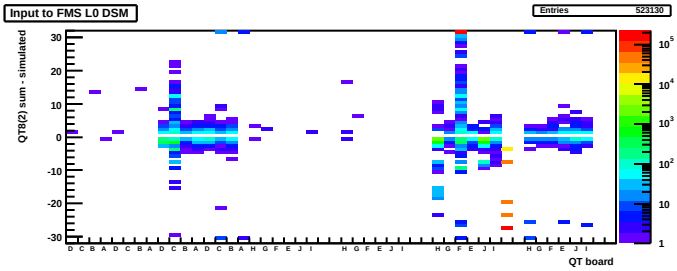

Input to FMS L0 DSM
Entries 2.60461e+07
QT8(0) sum
QT board

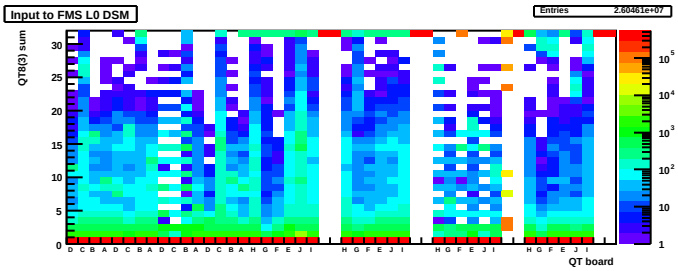

Input to FMS L0 DSM
Entries 143516
QT8(0) sum - simulated
QT board

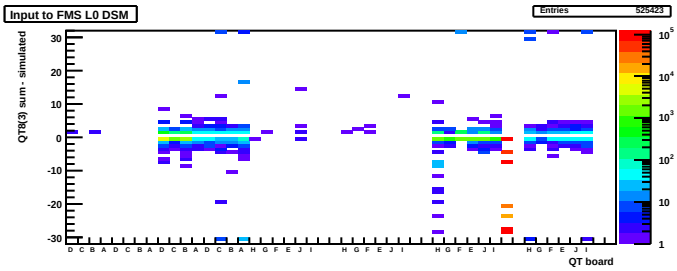

Input to FMS L0 DSM
Entries 2.60461e+07
QT8(1) sum
QT board

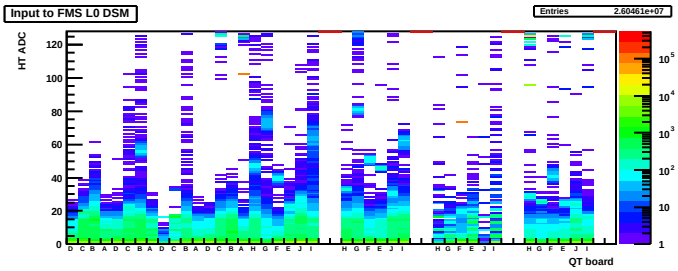

Input to FMS L0 DSM
Entries 144745
QT8(1) sum - simulated
QT board

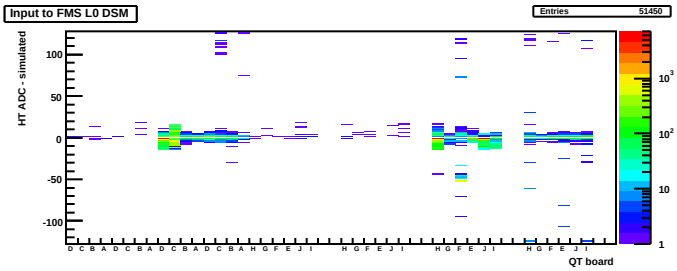

Input to FMS L0 DSM
Entries 2.60461e+07
QT8(2) sum
QT board

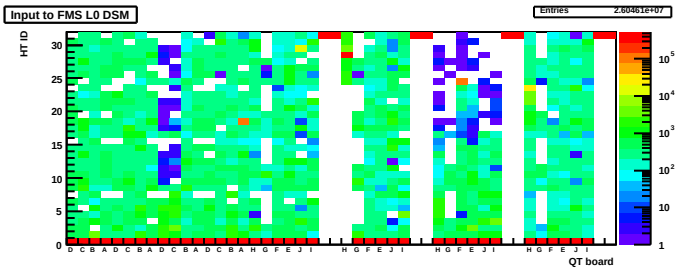

Input to FMS L0 DSM
Entries 523130
QT8(2) sum - simulated
QT board

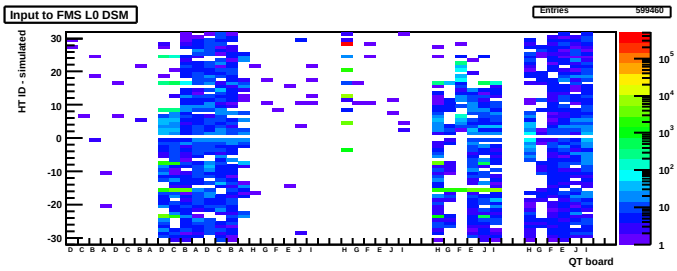

Input to FMS L0 DSM
Entries 2.60461e+07
QT8(3) sum
QT board

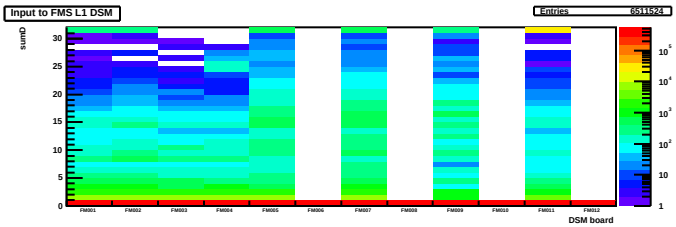

Input to FMS L0 DSM
Entries 525423
QT8(3) sum - simulated
QT board

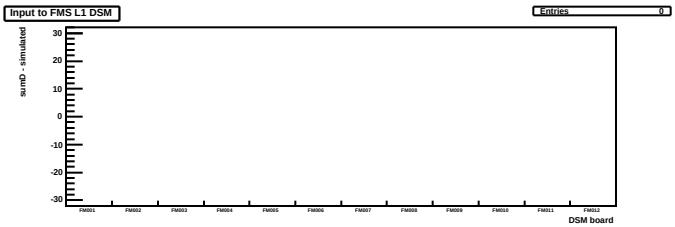

Input to FMS L0 DSM
Entries 2.60461e+07
HT ADC
QT board

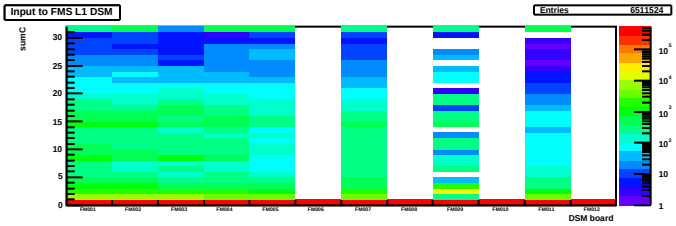

Input to FMS L0 DSM
Entries 51450
HT ADC - simulated
QT board

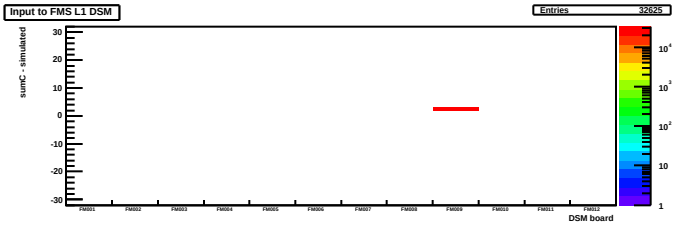

Input to FMS L0 DSM
Entries 2.60461e+07
HT ID
QT board

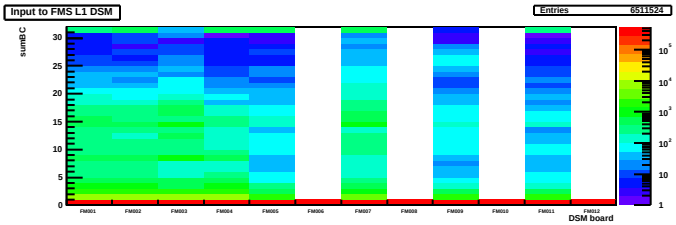

Input to FMS L0 DSM
Entries 599460
HT ID - simulated
QT board

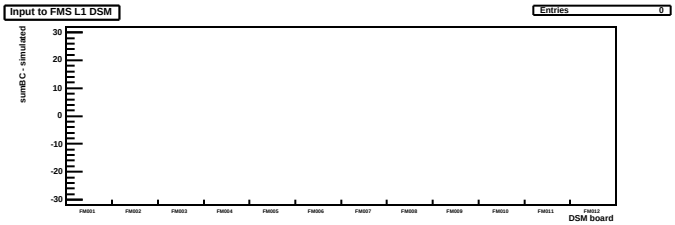

Input to FMS L1 DSM
Entries 6511524
sumD
DSM board

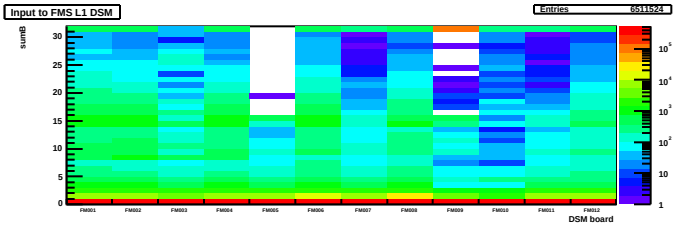

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

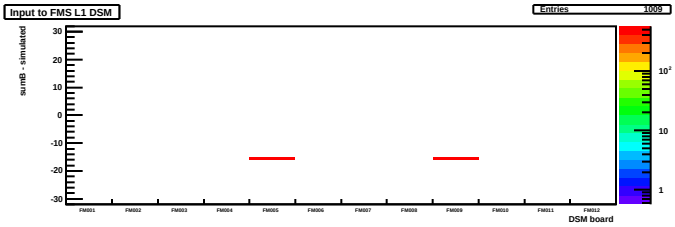

Input to FMS L1 DSM
Entries 6511524
sumC
DSM board

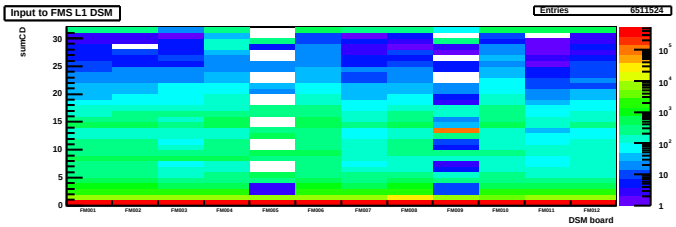

Input to FMS L1 DSM
Entries 32625
sumC - simulated
DSM board

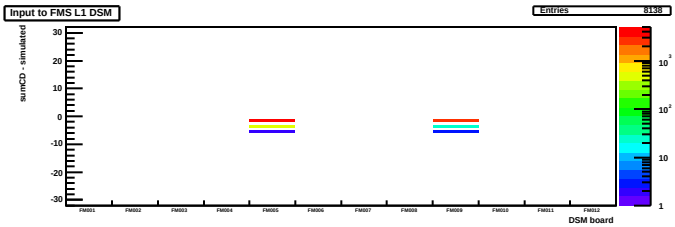

Input to FMS L1 DSM
Entries 6511524
sumBC
DSM board

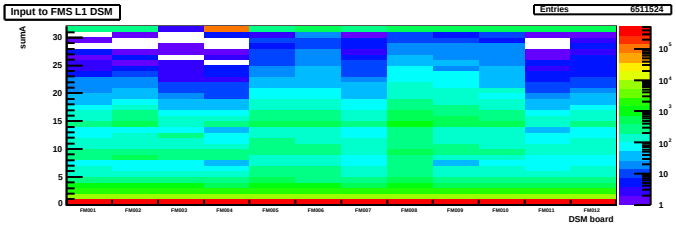

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

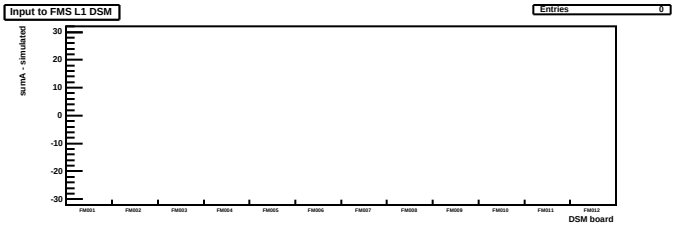

Input to FMS L1 DSM
Entries 6511524
sumB
DSM board

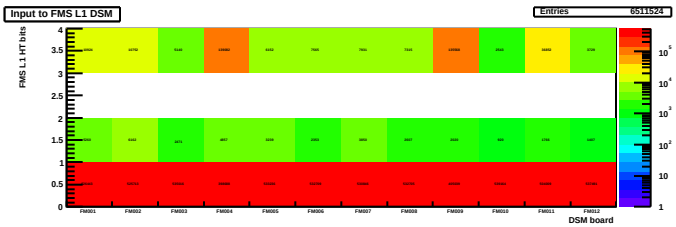

Input to FMS L1 DSM
Entries 1009
sumB - simulated
DSM board

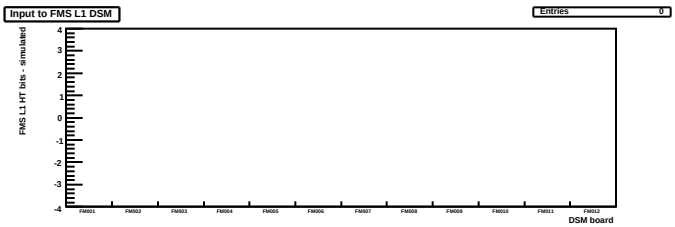

Input to FMS L1 DSM
Entries 6511524
sumCD
DSM board

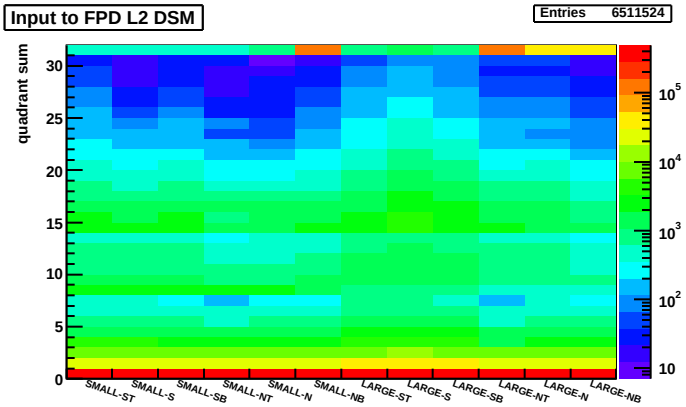

Input to FMS L1 DSM
Entries 8138
sumCD - simulated
DSM board

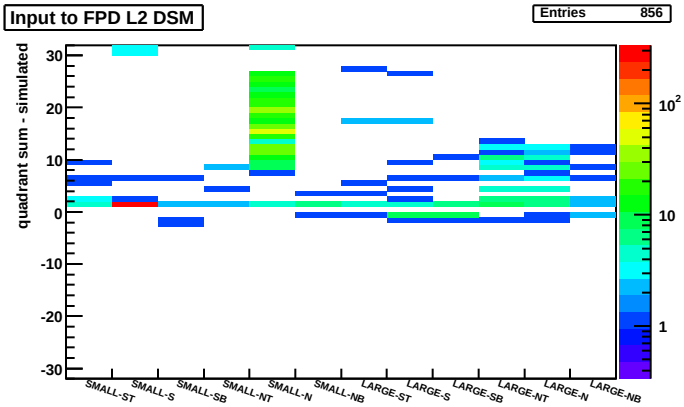

Input to FMS L1 DSM
Entries 6511524
sumA
DSM board

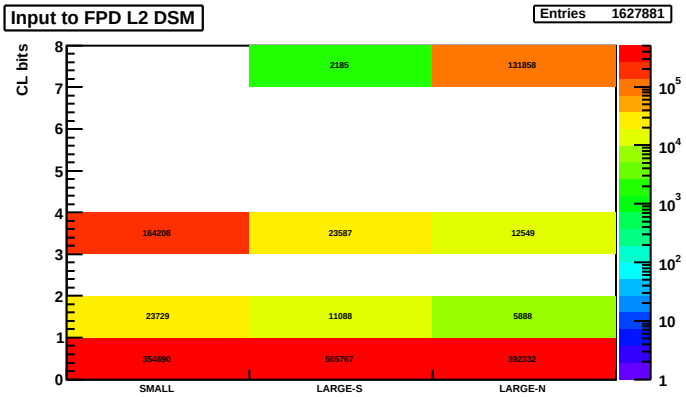

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

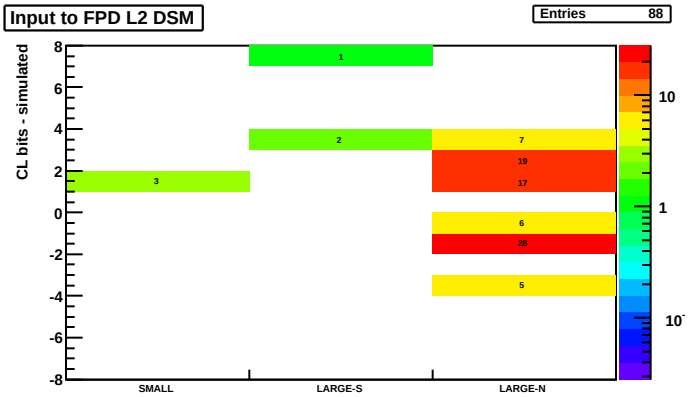

Input to FMS L1 DSM
Entries 6511524
FMS L1 HT bits
DSM board

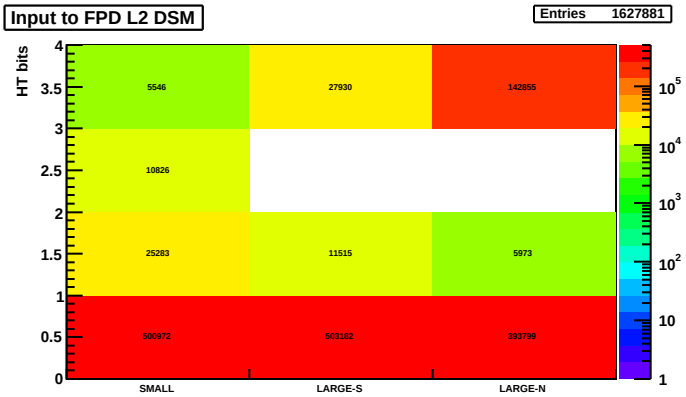

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

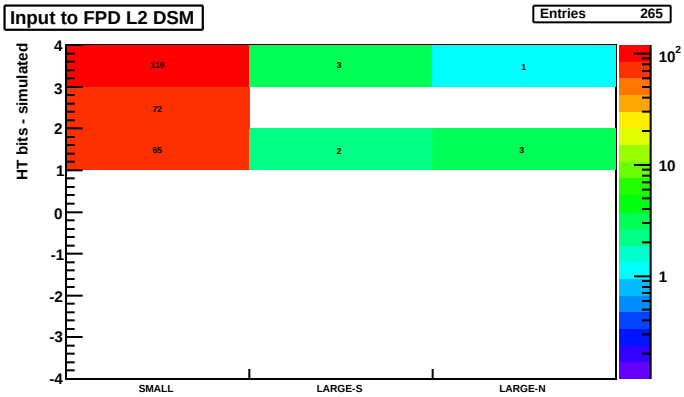

Input to FPD L2 DSM
Entries 6511524
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

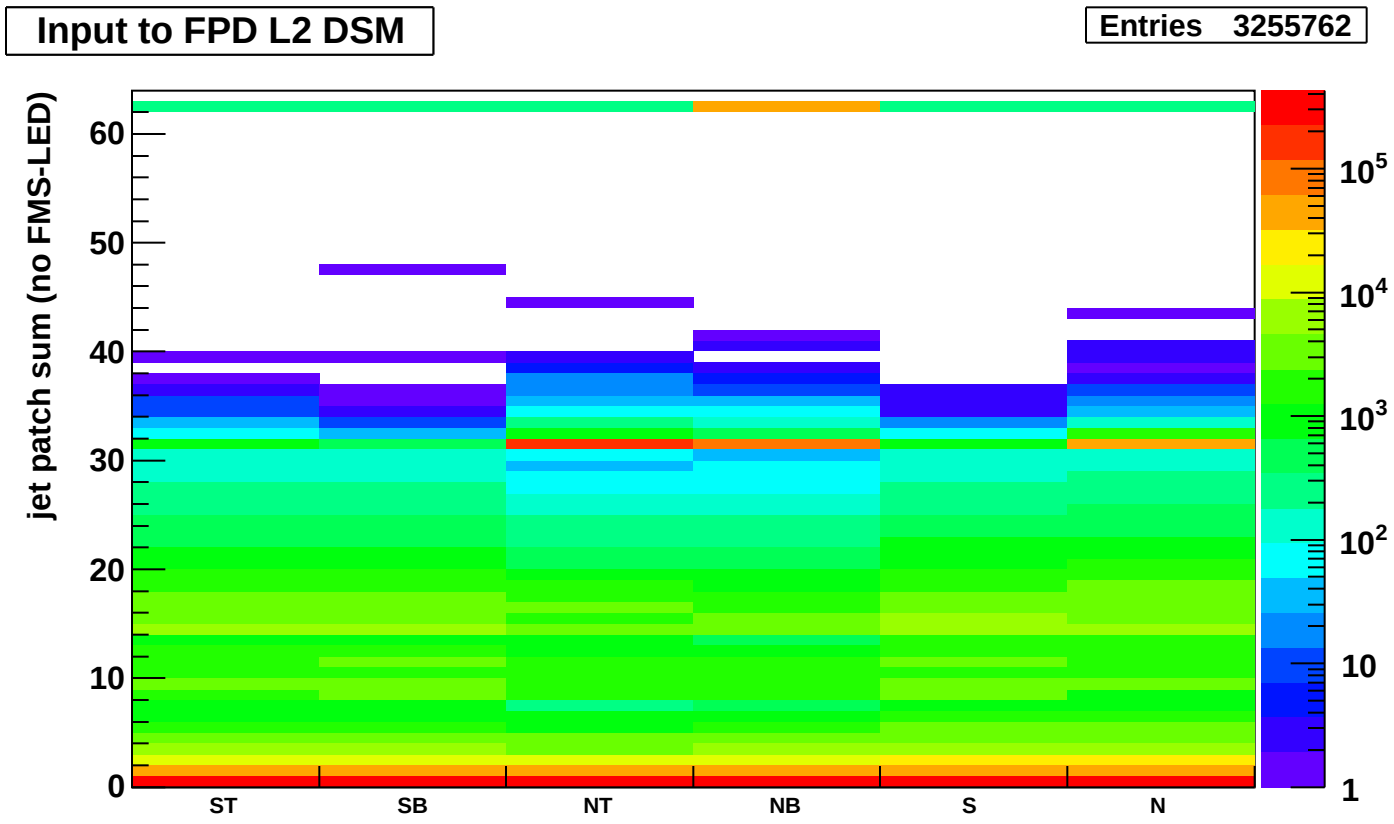

Input to FPD L2 DSM
Entries 856
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

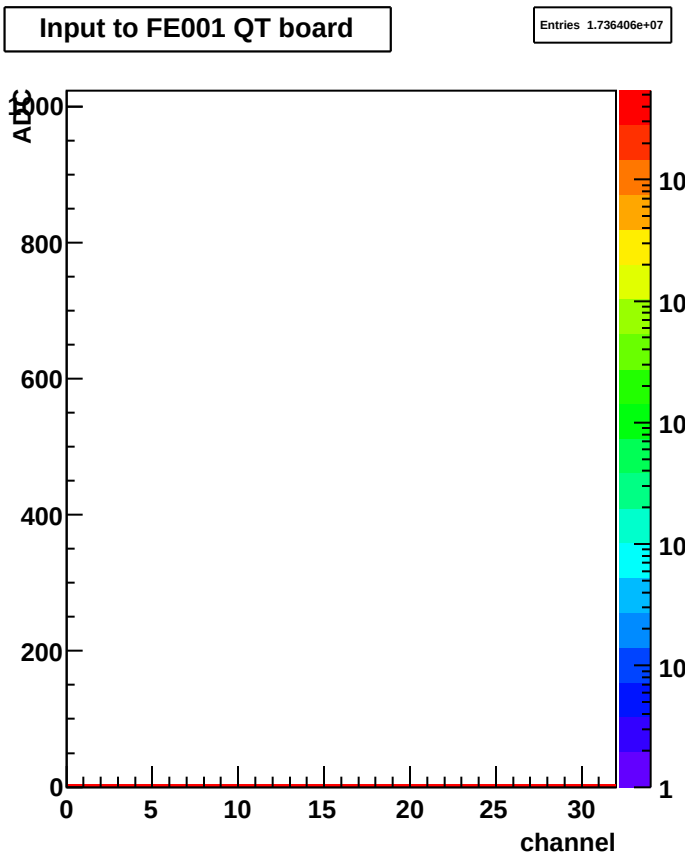

Input to FPD L2 DSM
Entries 1627881
CL bits
2185
131858
164208
23587
12549
23729
11088
5888
354690
505767
392332
SMALL
LARGE-S
LARGE-N

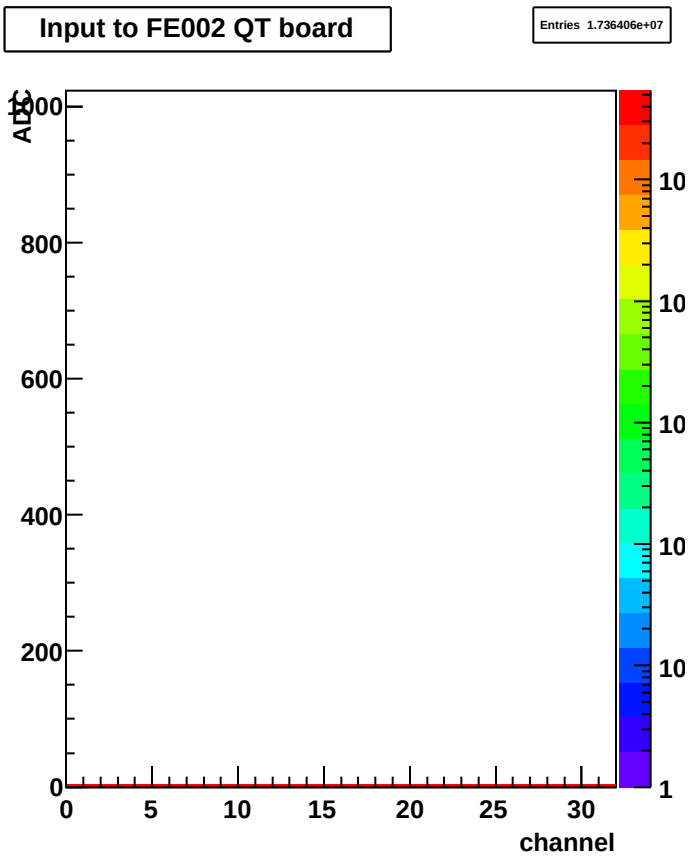

Input to FPD L2 DSM
Entries 88
CL bits - simulated
1
2
7
19
3
17
6
28
5
SMALL
LARGE-S
LARGE-N

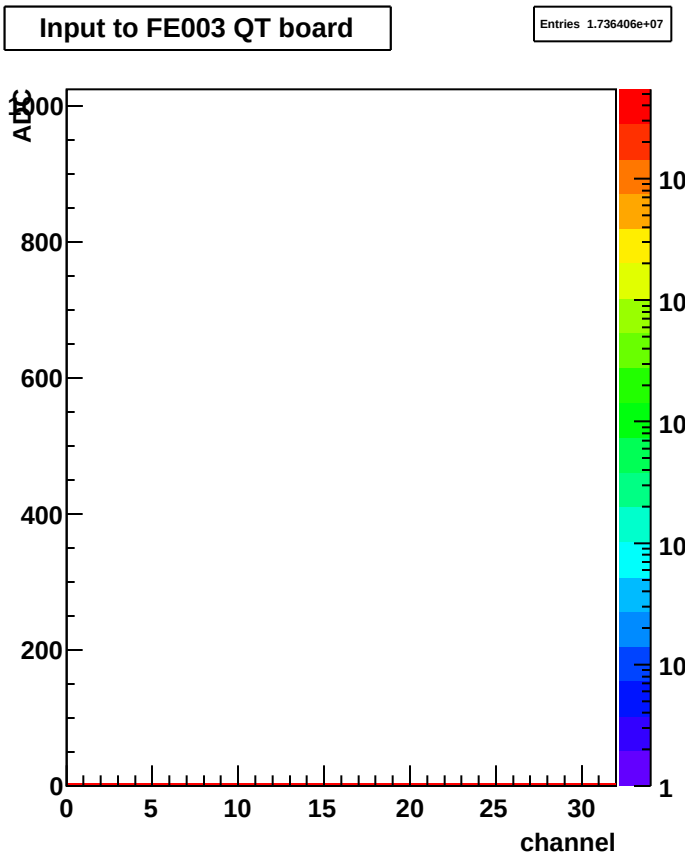

Input to FPD L2 DSM
Entries 1627881
HT bits
5546
27930
142855
10826
25283
11515
5973
500972
503182
393799
SMALL
LARGE-S
LARGE-N

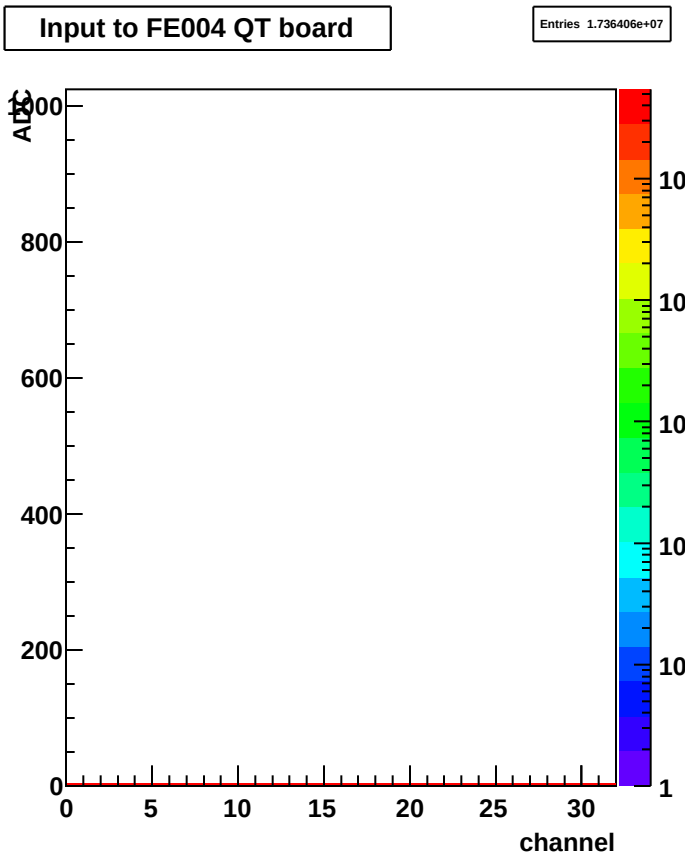

Input to FPD L2 DSM
Entries 265
HT bits - simulated
119
3
1
72
65
2
3
SMALL
LARGE-S
LARGE-N

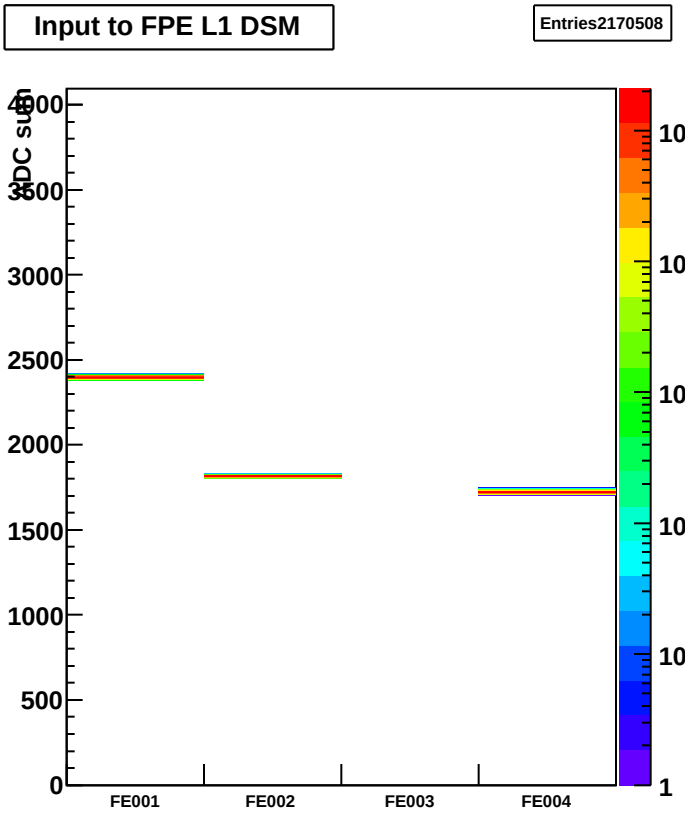

Input to FPD L2 DSM
Entries 3255762
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

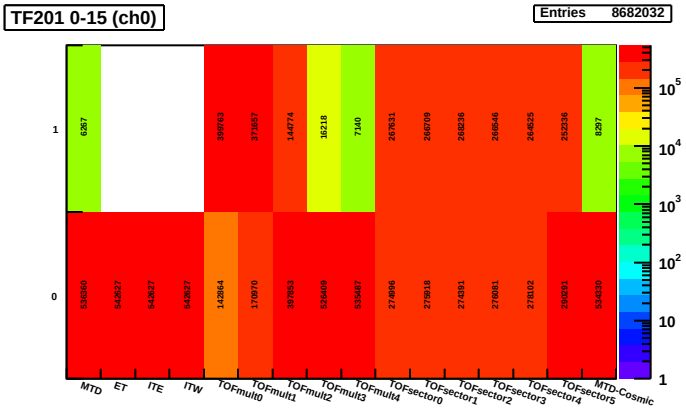

Input to FE001 QT board
Entries 1.736406e+07
ADC
channel

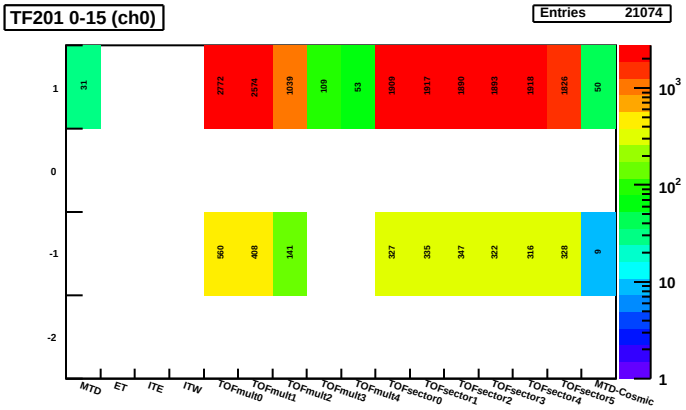

Input to FE002 QT board
Entries 1.736406e+07
ADC
channel

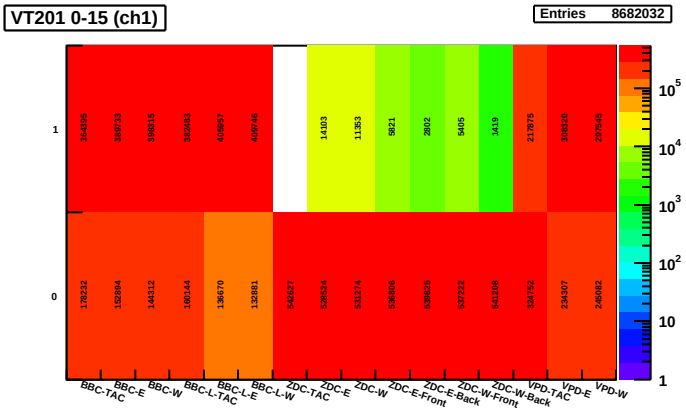

Input to FE003 QT board
Entries 1.736406e+07
ADC
channel

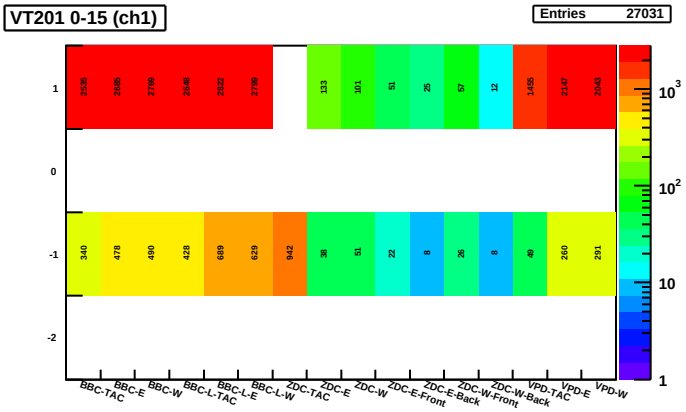

Input to FE004 QT board
Entries 1.736406e+07
ADC
channel

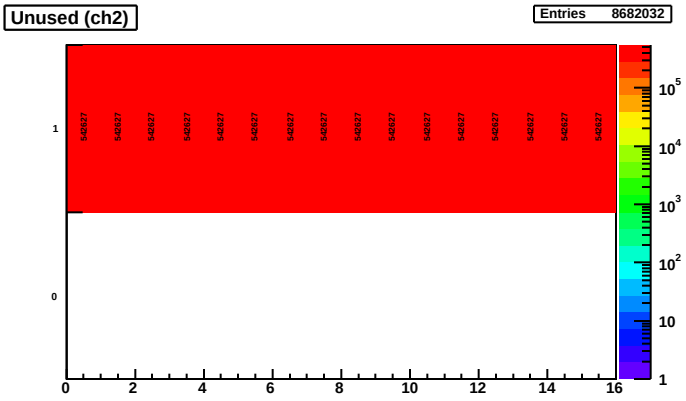

Input to FPE L1 DSM
Entries2170508
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 8682032
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 21074
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 8682032
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 27031
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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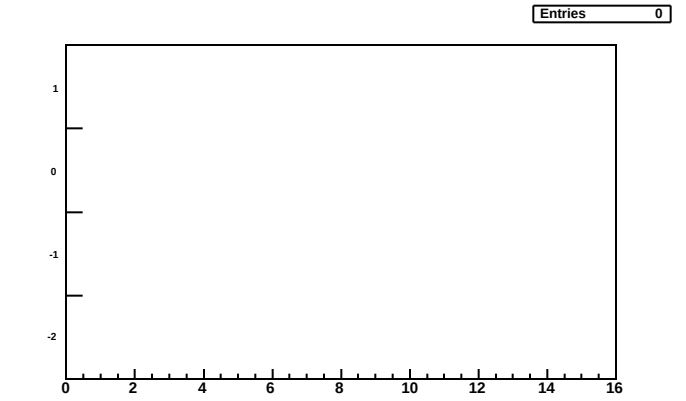
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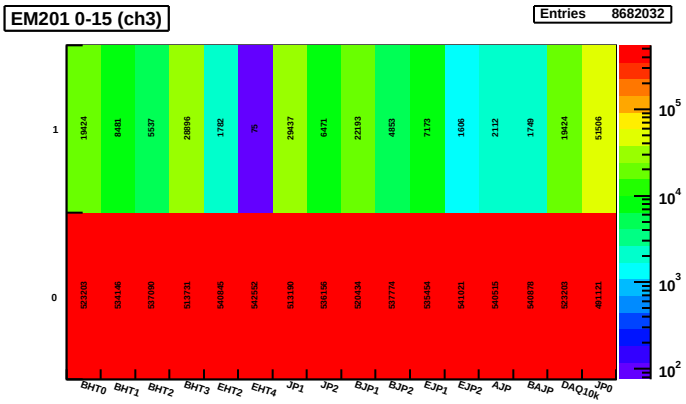
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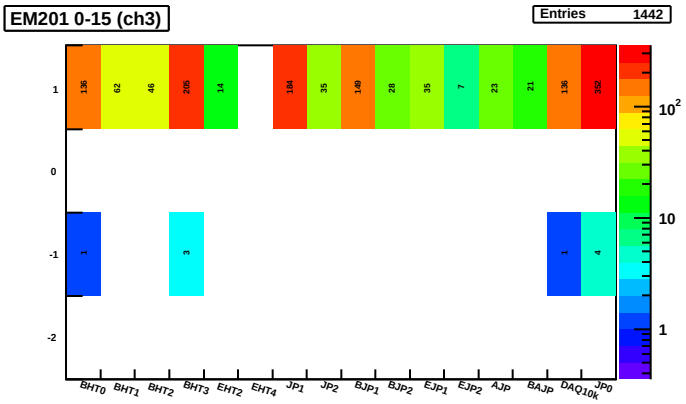
EM201 0-15 (ch3)
Entries 1442
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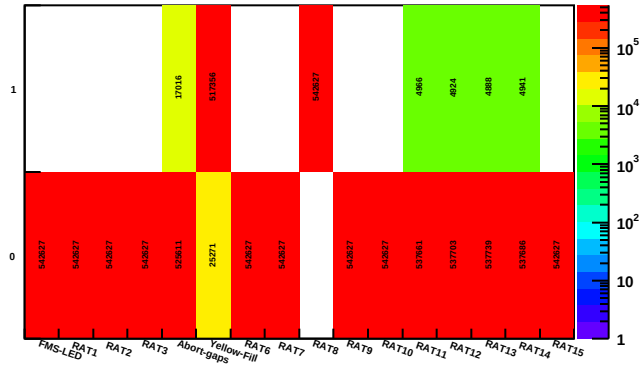
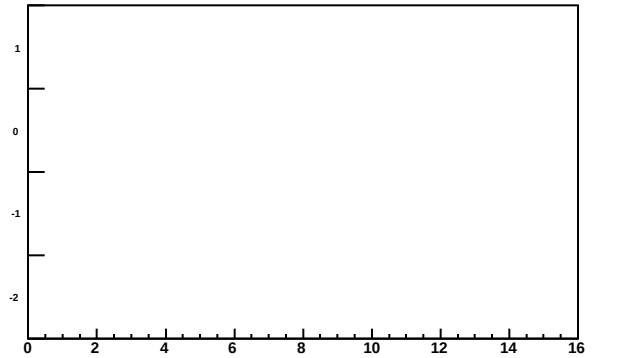
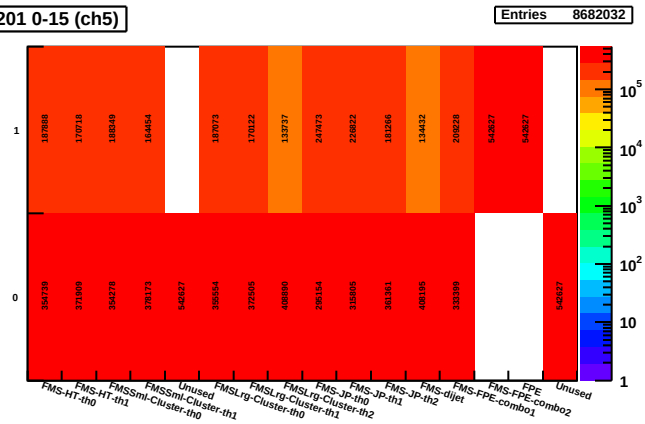
RAT board (ch4)





FP201 0-15 (ch5)



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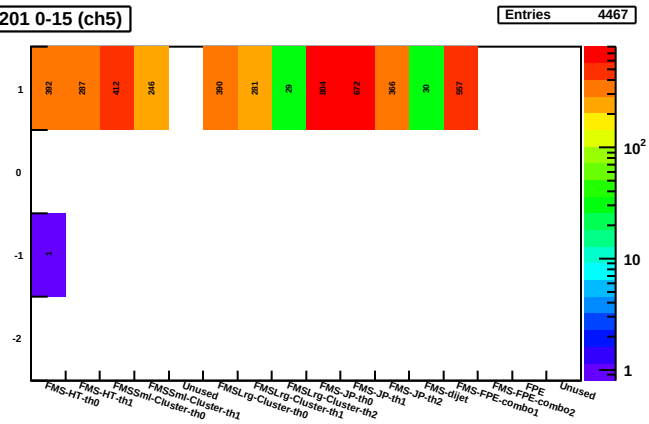
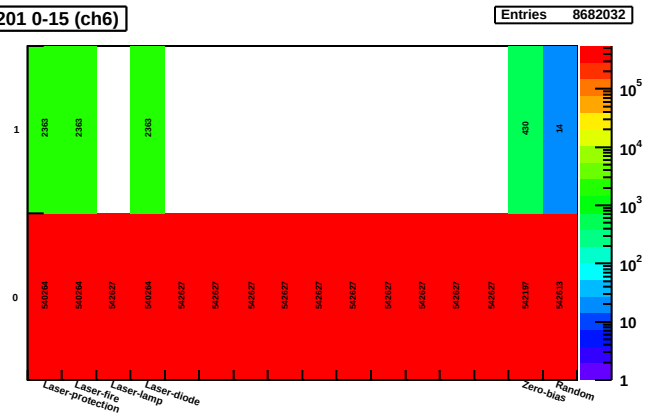
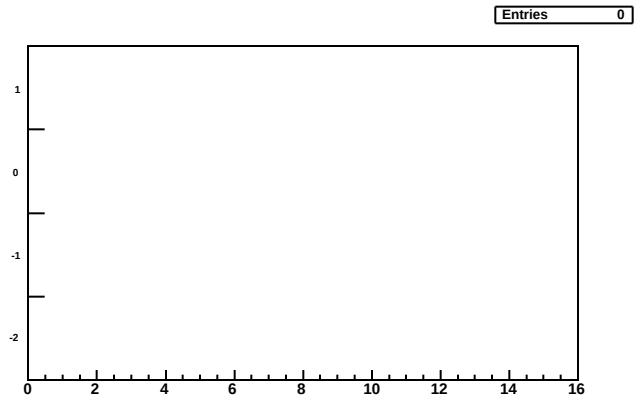
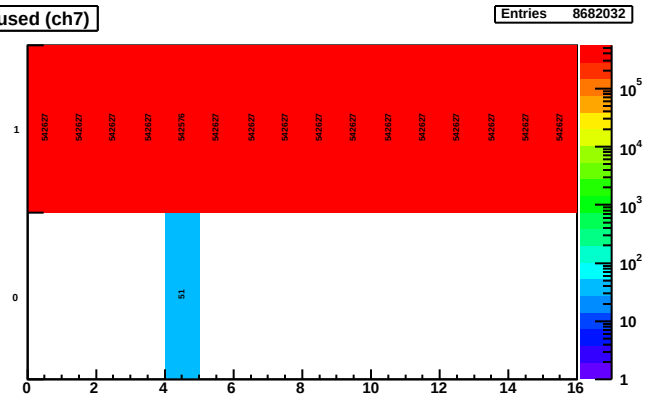
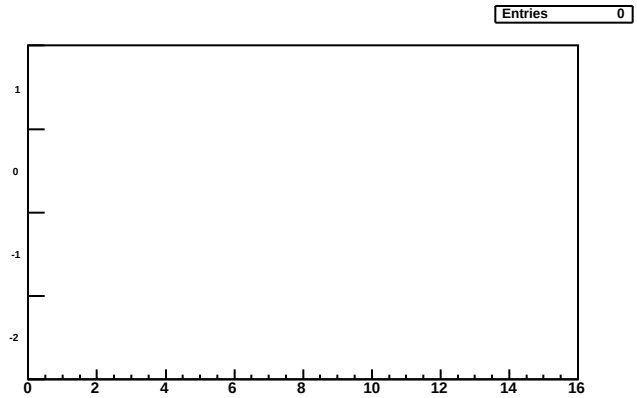


ST201 0-15 (ch6)





Unused (ch7)