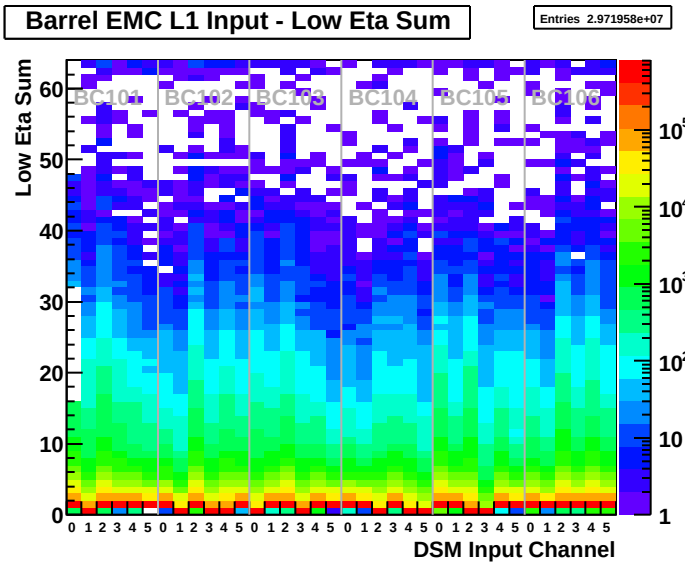
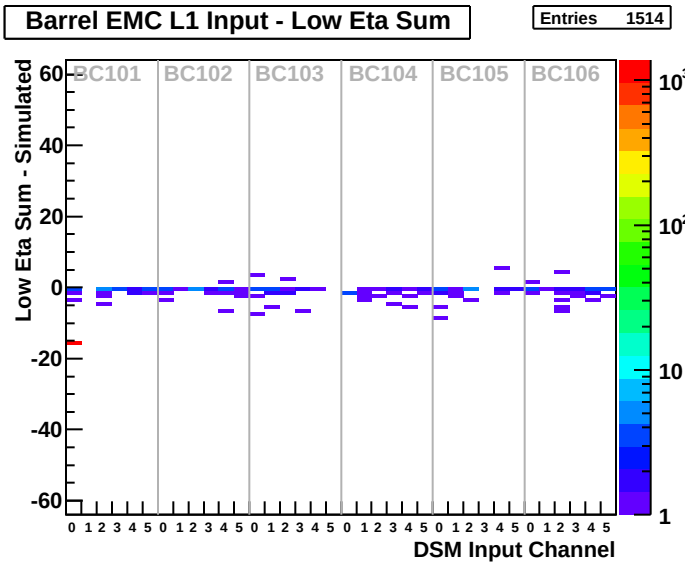
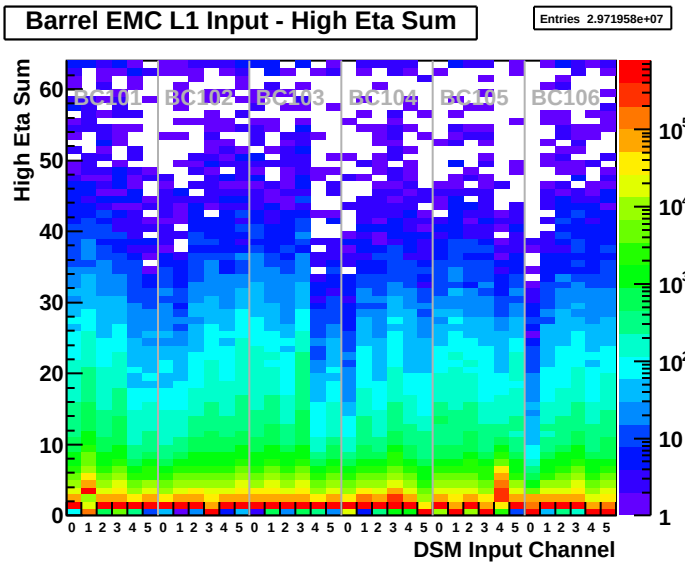
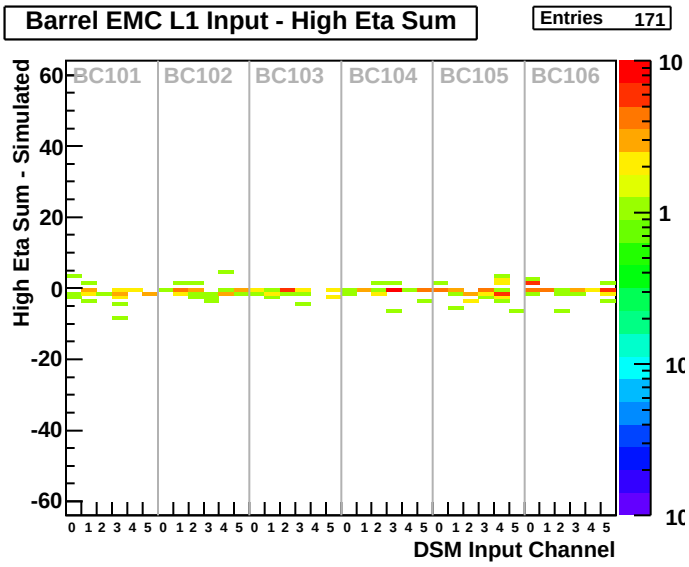
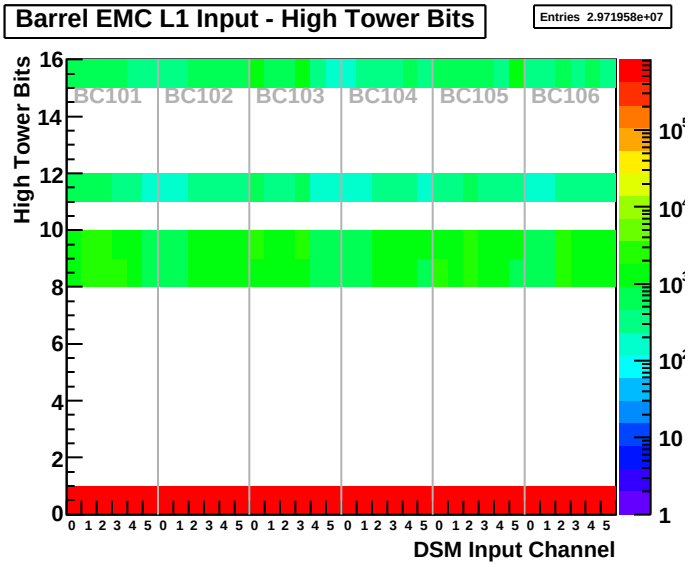
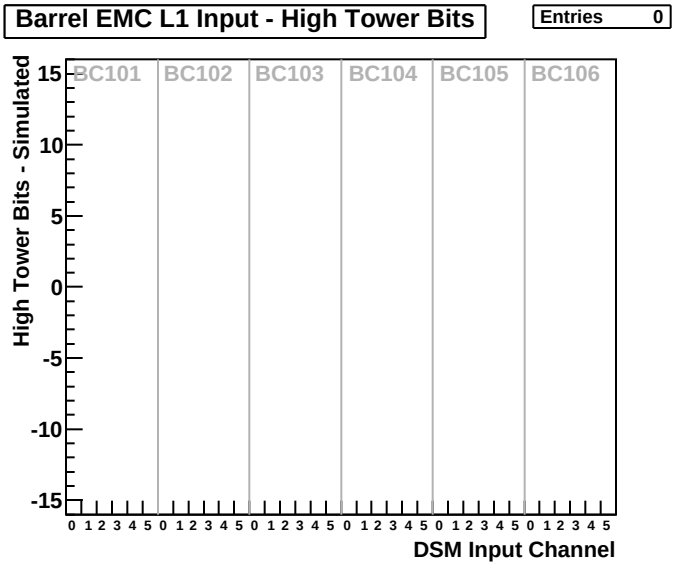

Barrel EMC L1 Input - Low Eta Sum
Entries 2.971958e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

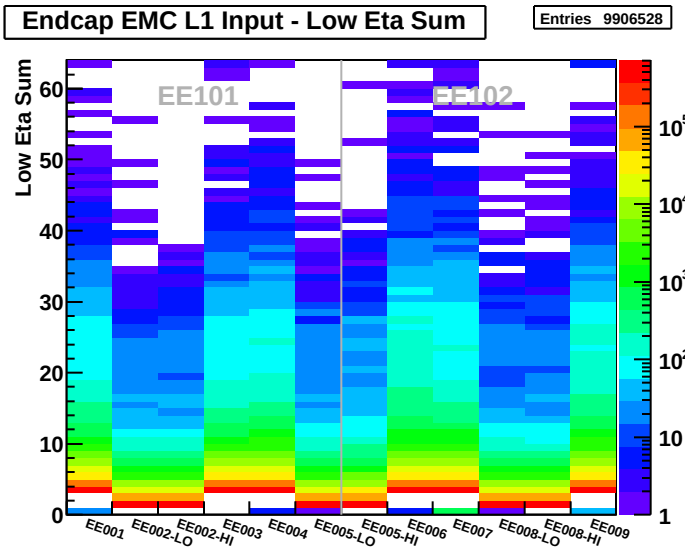

Barrel EMC L1 Input - Low Eta Sum
Entries 1514
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

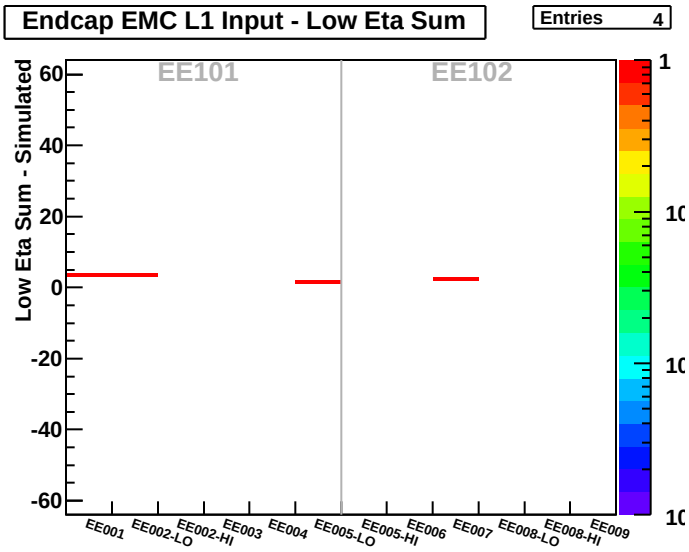

Barrel EMC L1 Input - High Eta Sum
Entries 2.971958e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

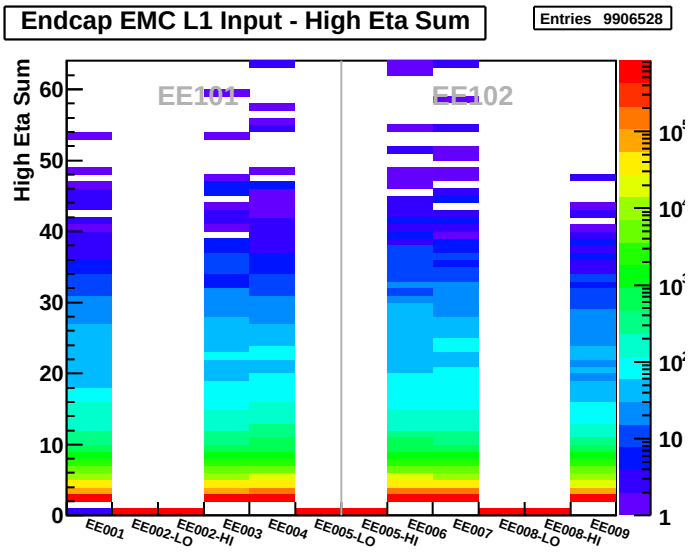

Barrel EMC L1 Input - High Eta Sum
Entries 171
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

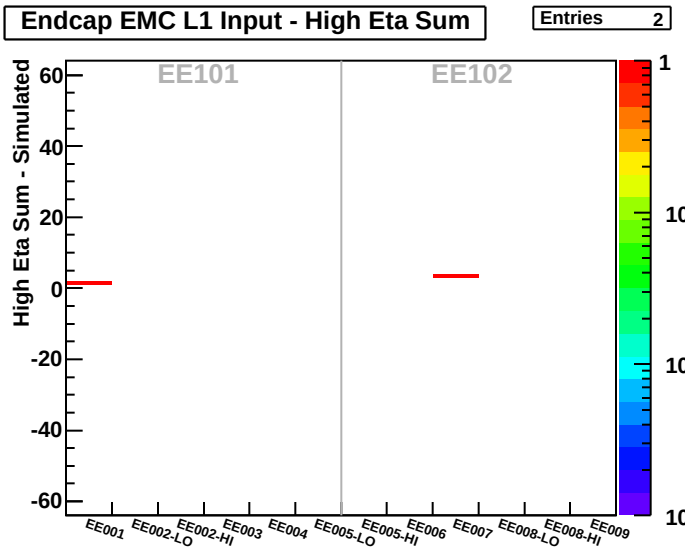

Barrel EMC L1 Input - High Tower Bits
Entries 2.971958e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

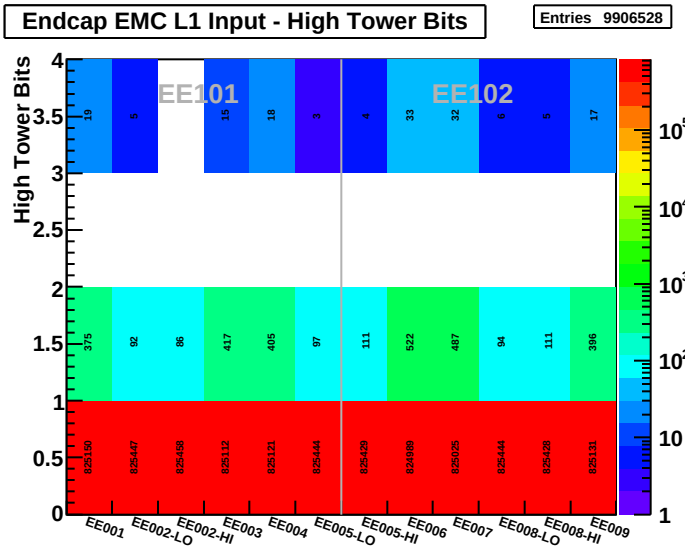

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

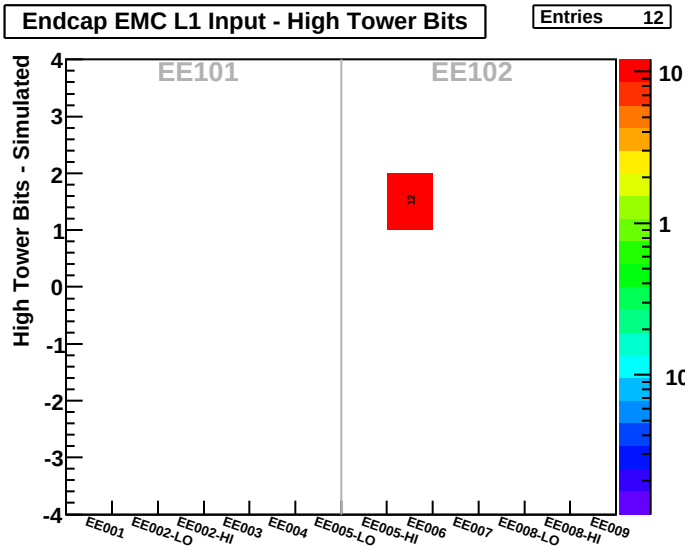

Endcap EMC L1 Input - Low Eta Sum
Entries 9906528
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

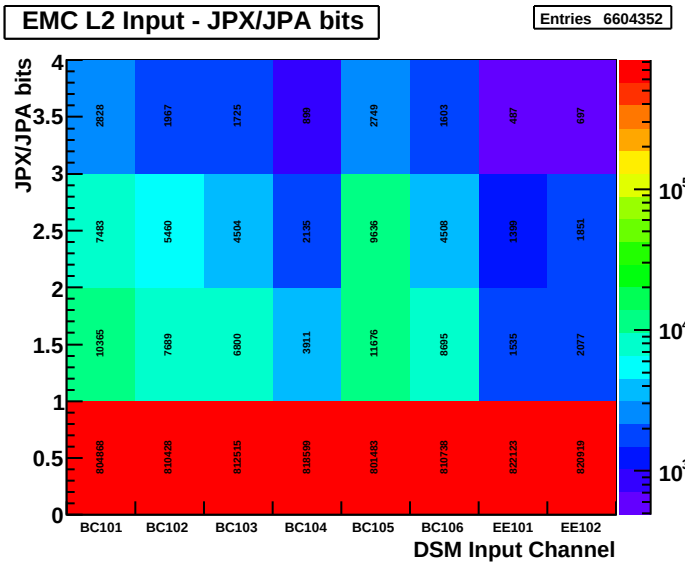

Endcap EMC L1 Input - Low Eta Sum
Entries 4
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

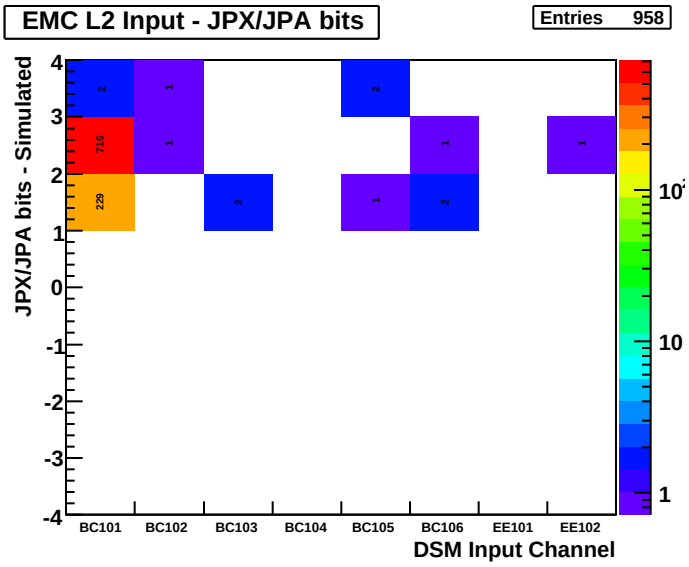

Endcap EMC L1 Input - High Eta Sum
Entries 9906528
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

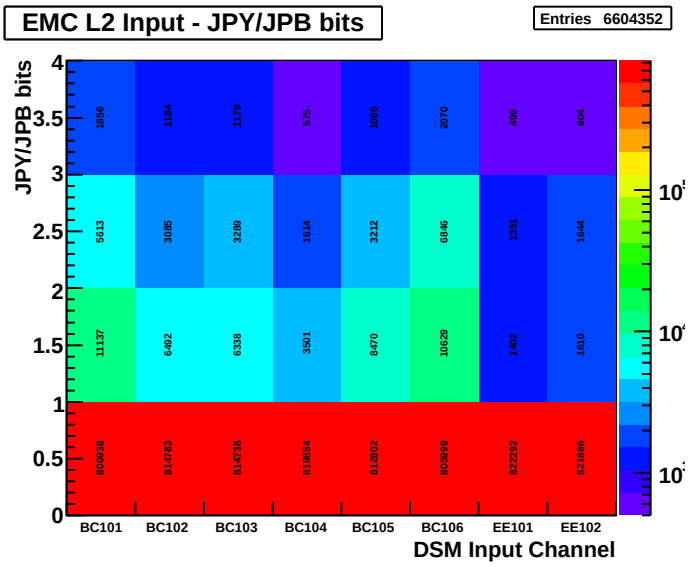

Endcap EMC L1 Input - High Eta Sum
Entries 2
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

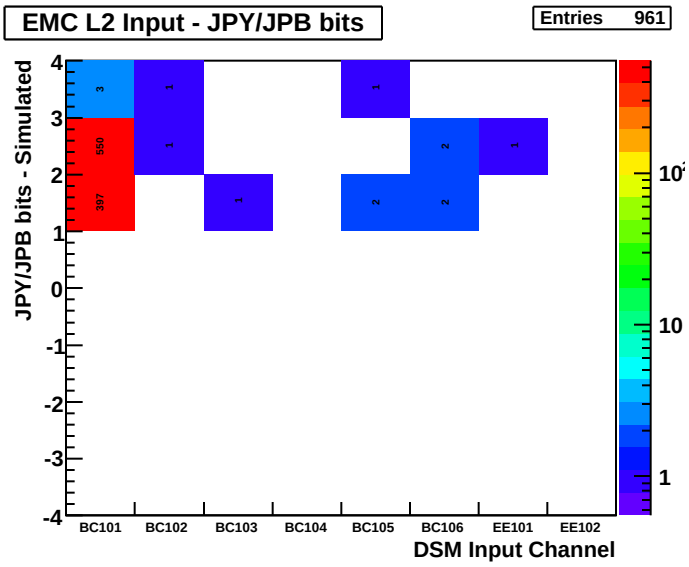

Endcap EMC L1 Input - High Tower Bits
Entries 9906528
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

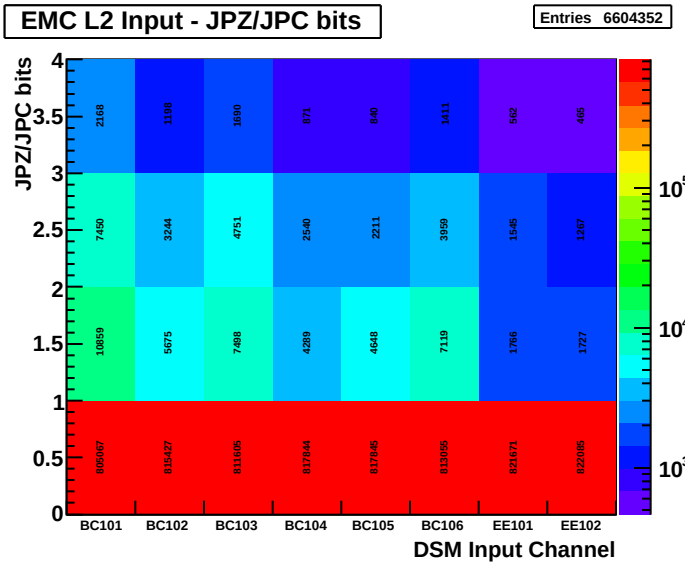

Endcap EMC L1 Input - High Tower Bits
Entries 12
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

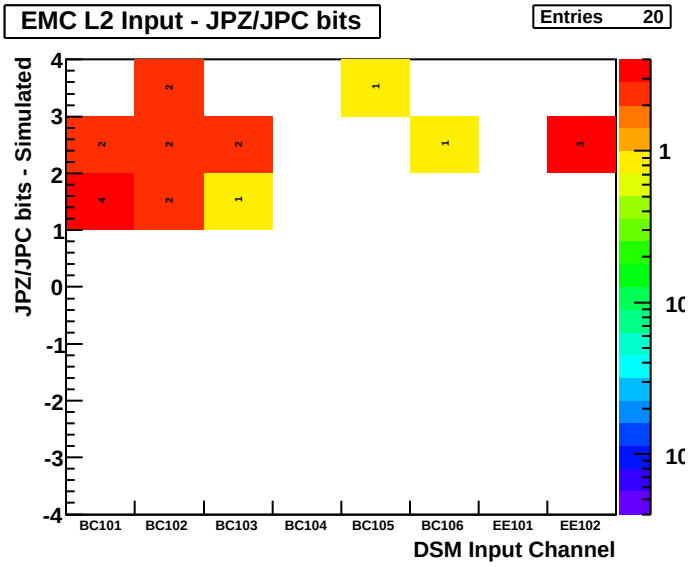

EMC L2 Input - JPX/JPA bits
Entries 6604352
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2828 1967 1725 899 2749 1603 497 697
7483 5460 4504 2135 9636 4508 1399 1851
10365 7689 6800 3911 11676 8695 1535 2077
804868 810428 812515 818509 801483 810738 822123 820919

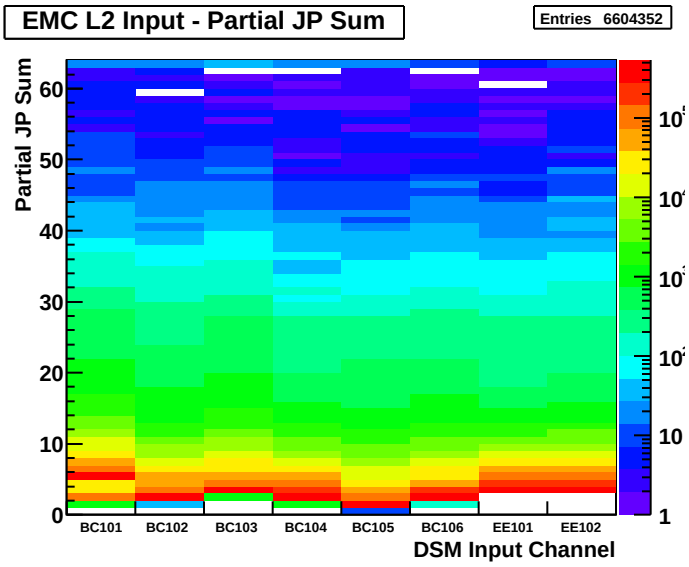

EMC L2 Input - JPX/JPA bits
Entries 958
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1 2
716 1 1 1
229 2 1 2

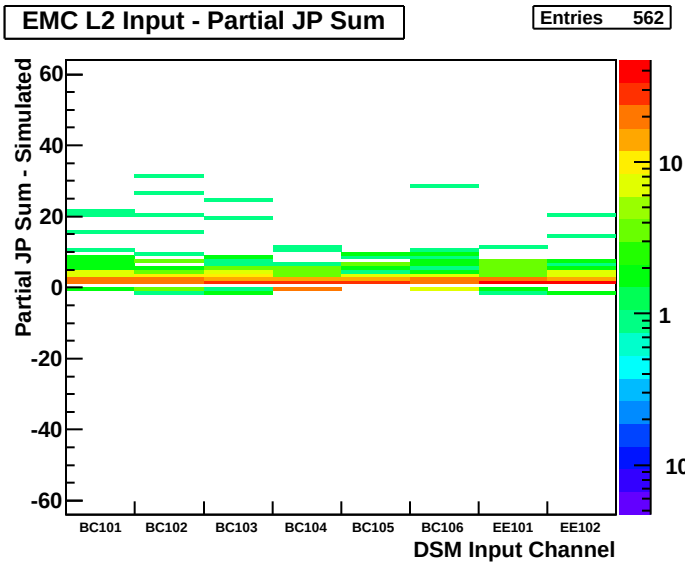

EMC L2 Input - JPY/JPB bits
Entries 6604352
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1856 1184 1179 575 1060 2070 499 604
5613 3085 3289 1614 3212 6846 1351 1644
11137 6492 6338 3501 8470 10629 1492 1610
806938 814783 814738 818854 812802 805999 822292 821686

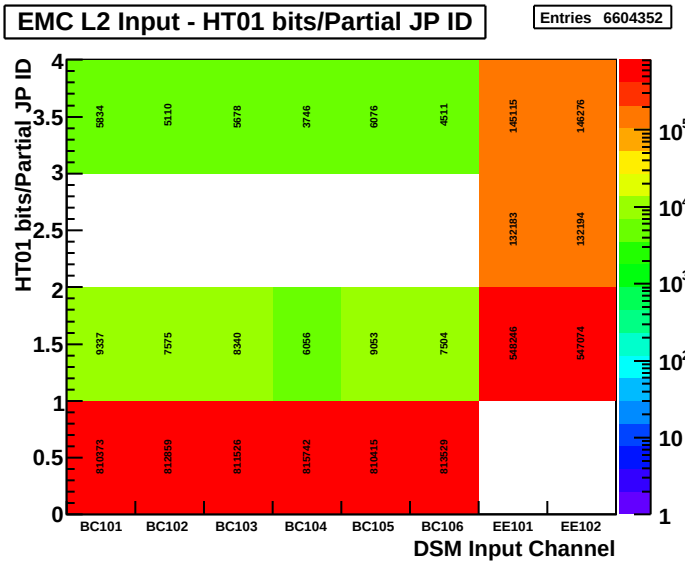

EMC L2 Input - JPY/JPB bits
Entries 961
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 1 1
550 1 2 1
397 1 2 2

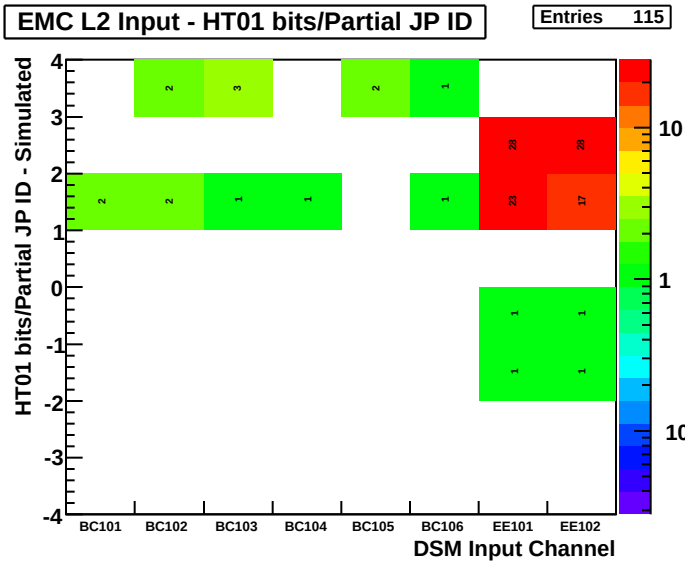

EMC L2 Input - JPZ/JPC bits
Entries 6604352
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2168 1198 1690 871 840 1411 562 465
7450 3244 4751 2540 2211 3959 1545 1267
10859 5675 7498 4289 4648 7119 1766 1727
805067 815427 811605 817844 817845 813055 821671 822085

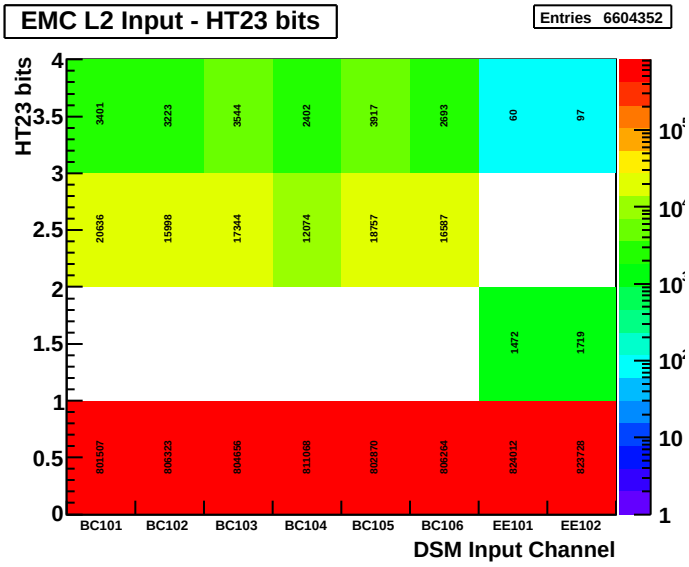

EMC L2 Input - JPZ/JPC bits
Entries 20
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
2
2 2 2 1 3
4 2 1

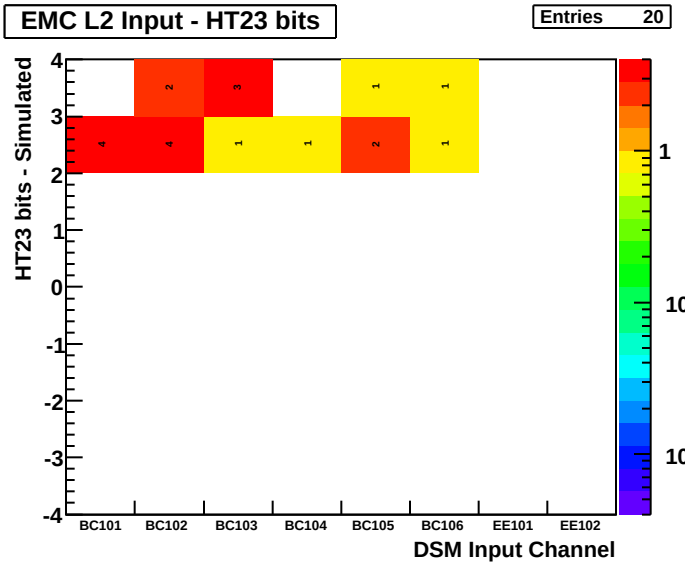

EMC L2 Input - Partial JP Sum
Entries 6604352
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

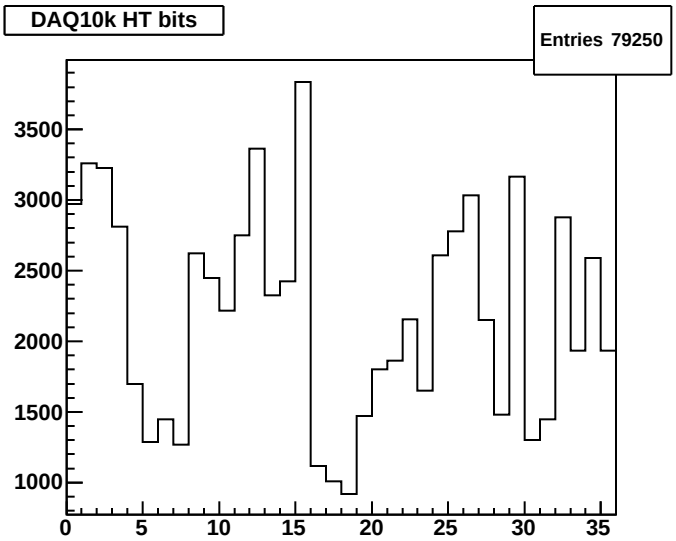

EMC L2 Input - Partial JP Sum
Entries 562
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

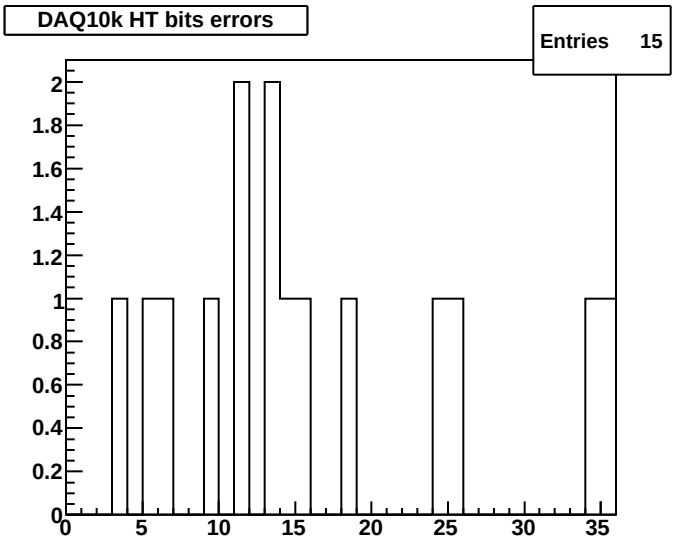

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6604352
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

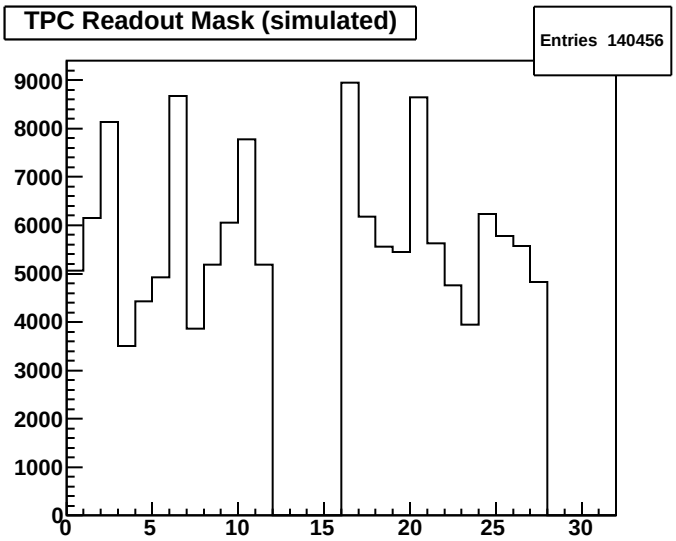

EMC L2 Input - HT01 bits/Partial JP ID
Entries 115
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

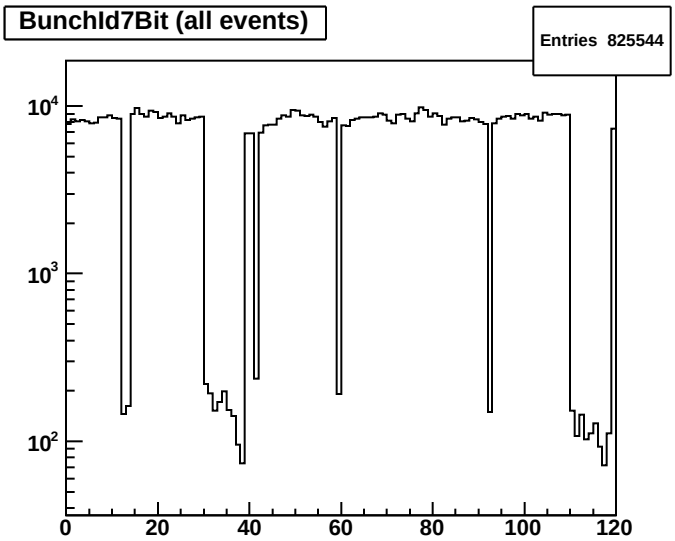

EMC L2 Input - HT23 bits
Entries 6604352
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

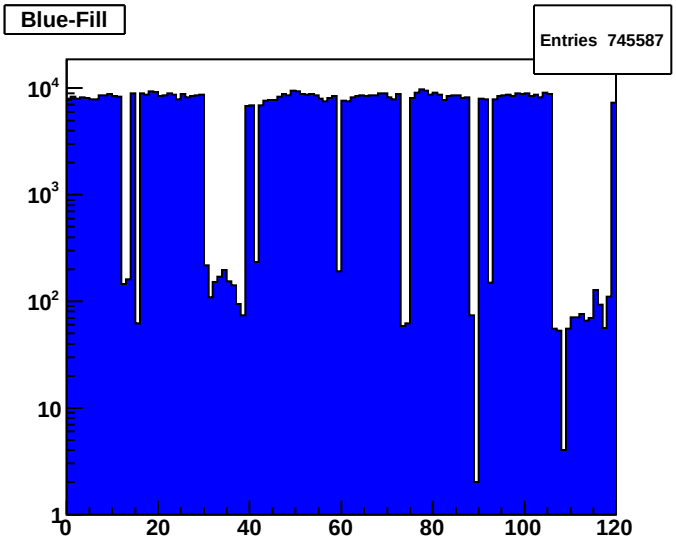

EMC L2 Input - HT23 bits
Entries 20
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

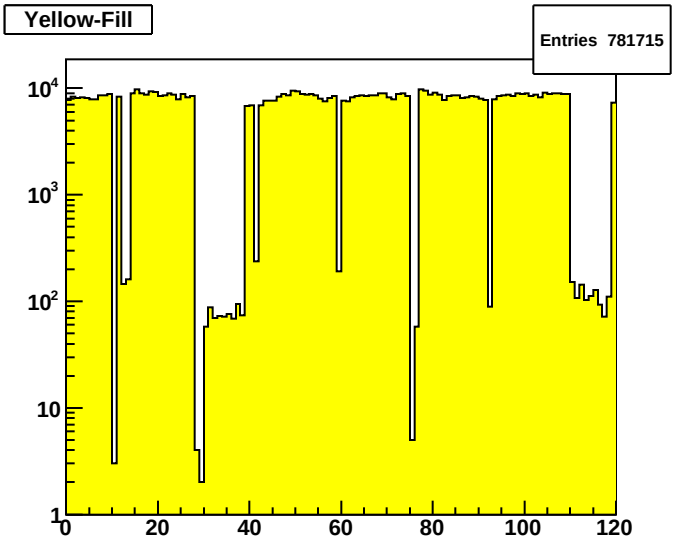

DAQ10k HT bits
Entries 79250

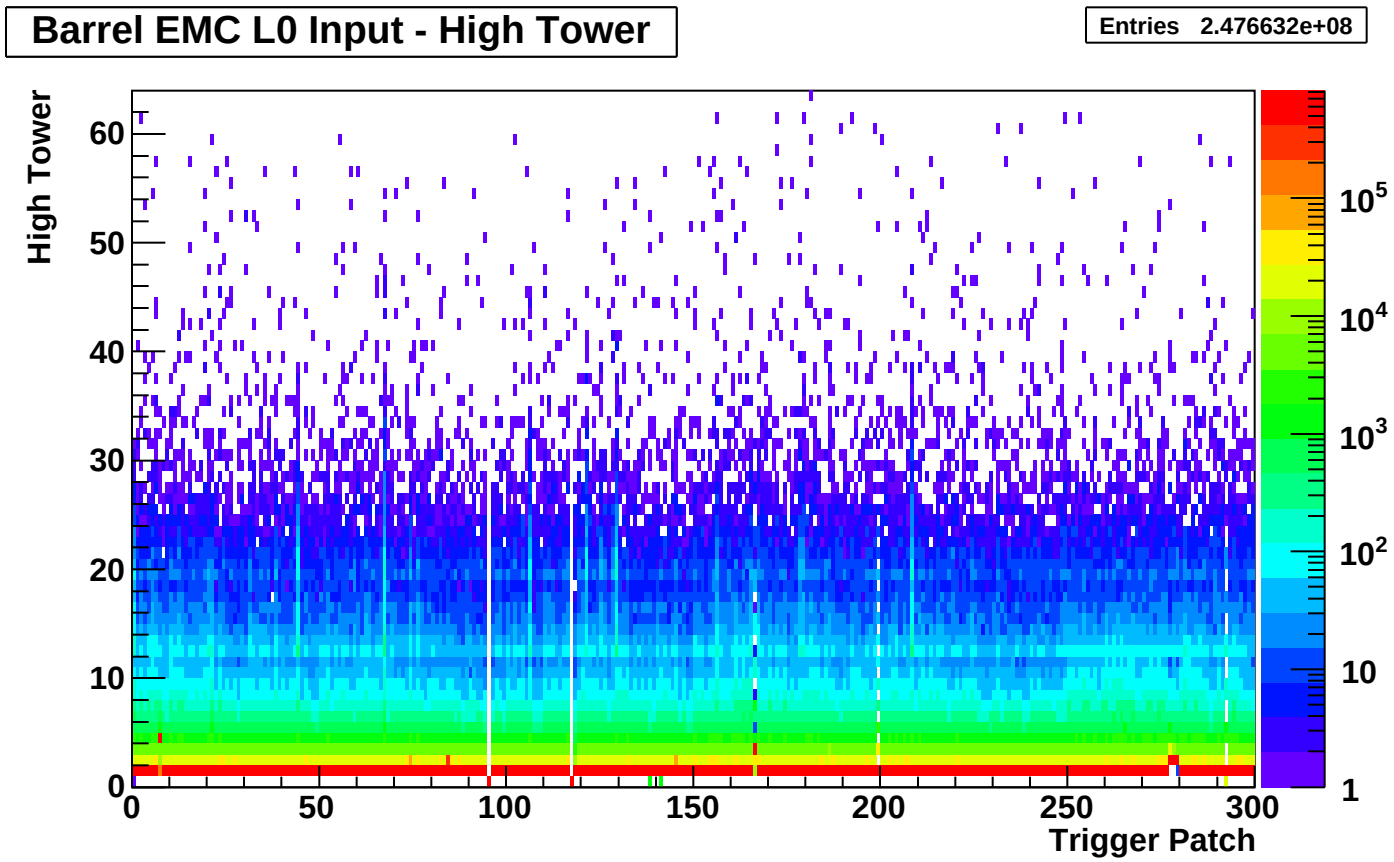

DAQ10k HT bits errors
Entries 15

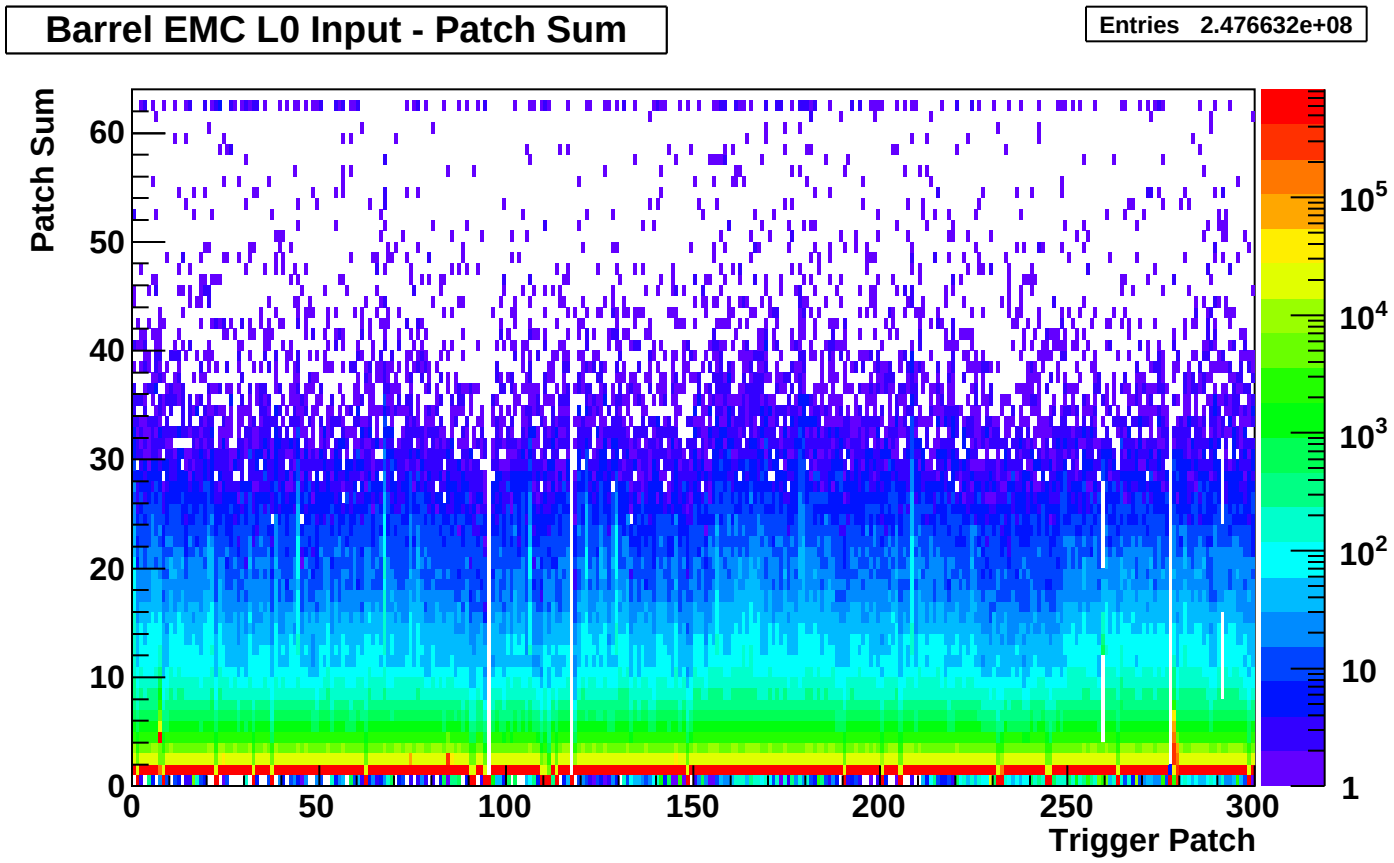

TPC Readout Mask (simulated)
Entries 140456

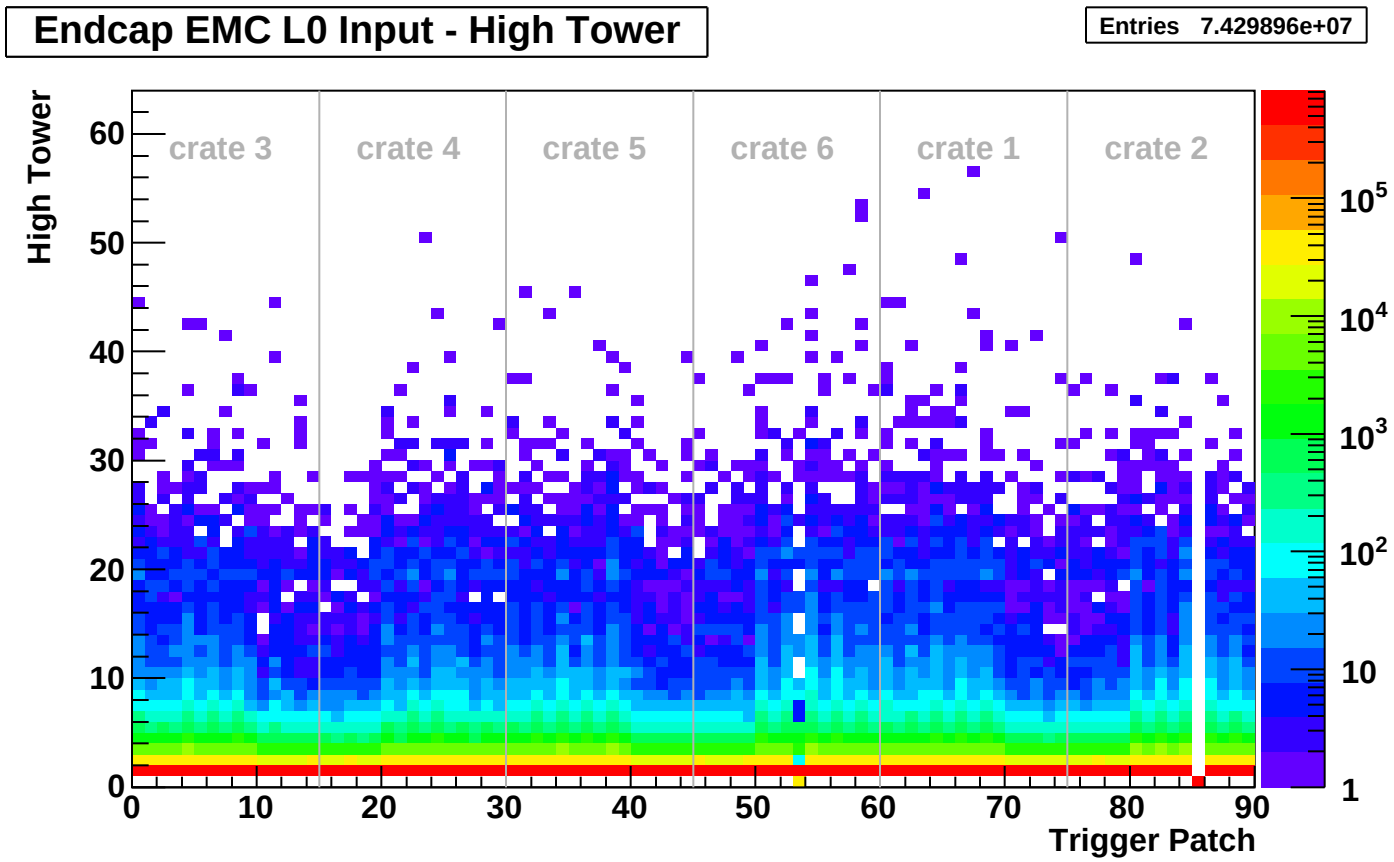

BunchId7Bit (all events)
Entries 825544

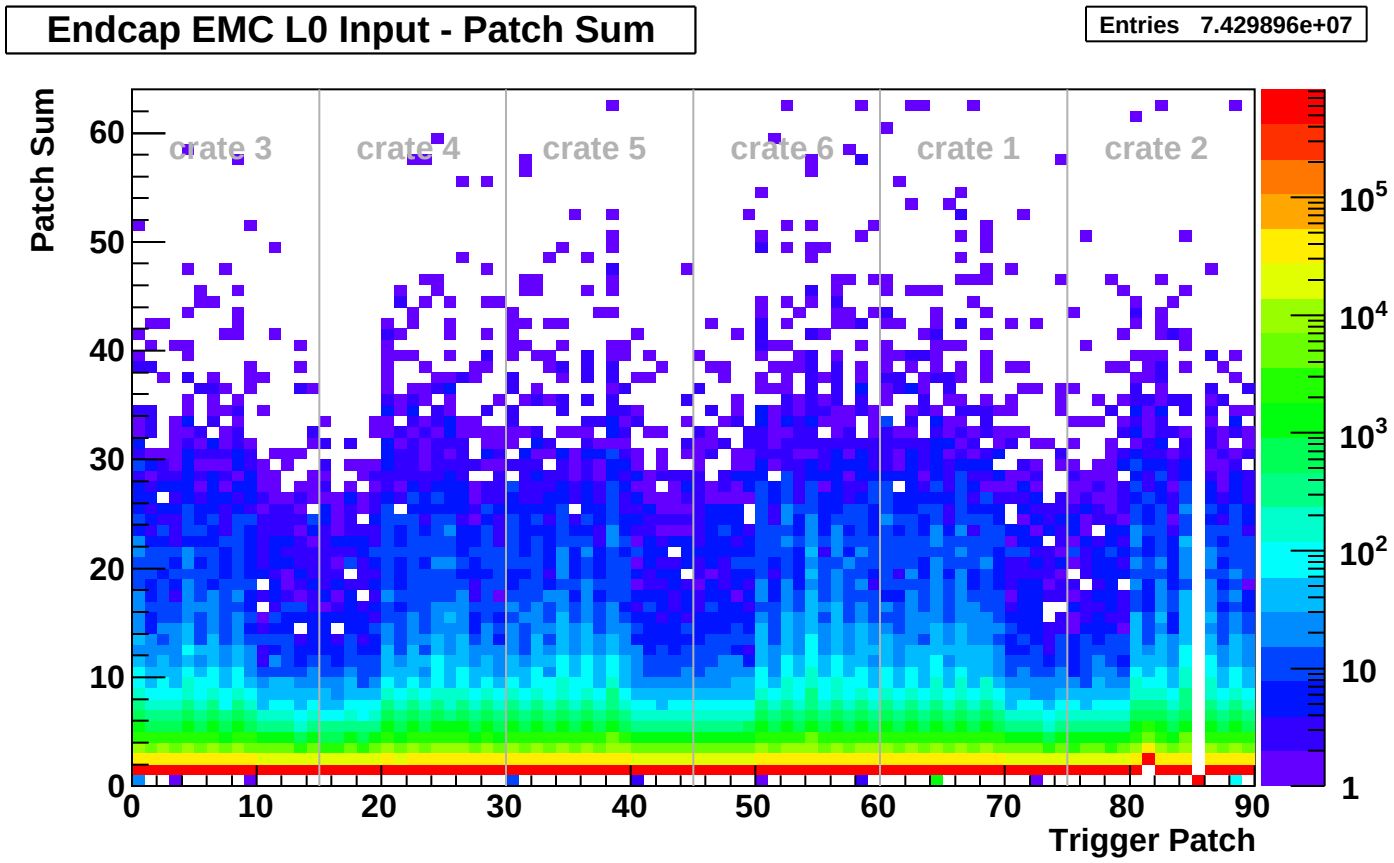

Blue-Fill
Entries 745587

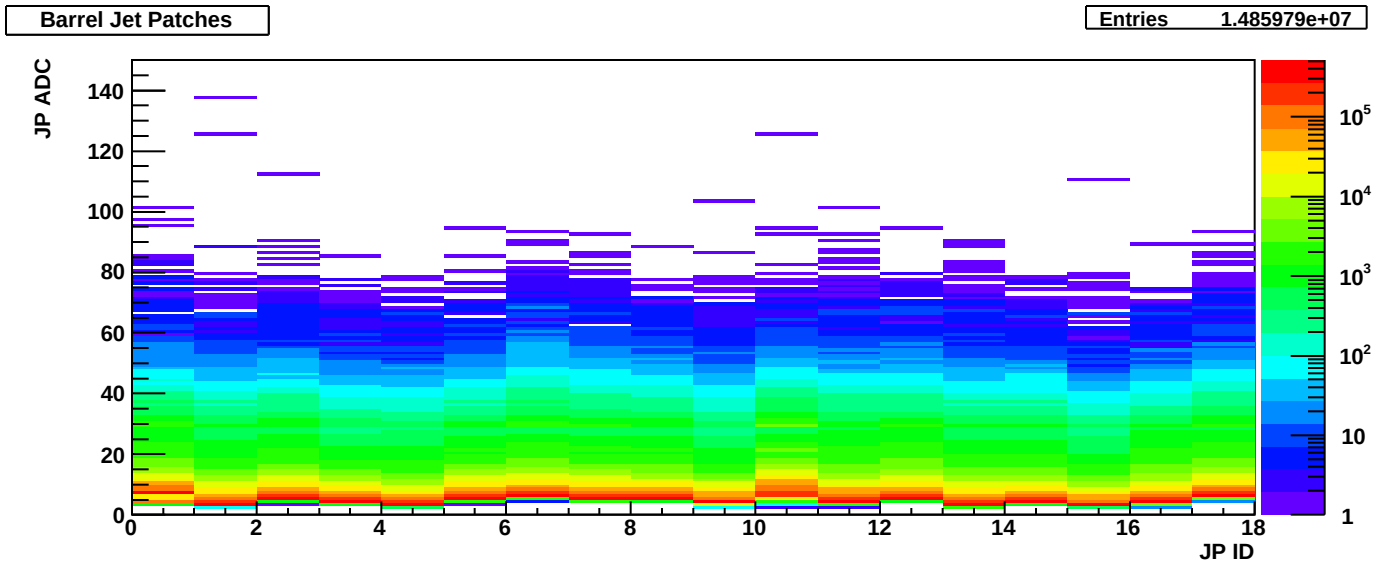

Yellow-Fill
Entries 781715

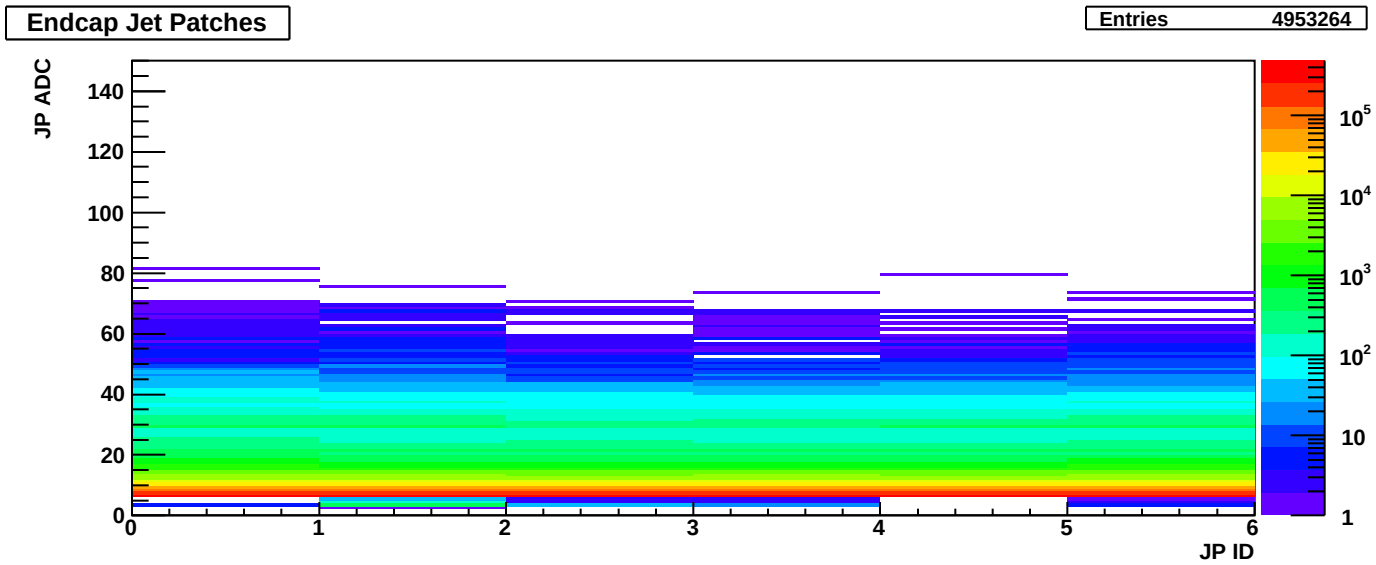

Barrel EMC L0 Input - High Tower
Entries 2.476632e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

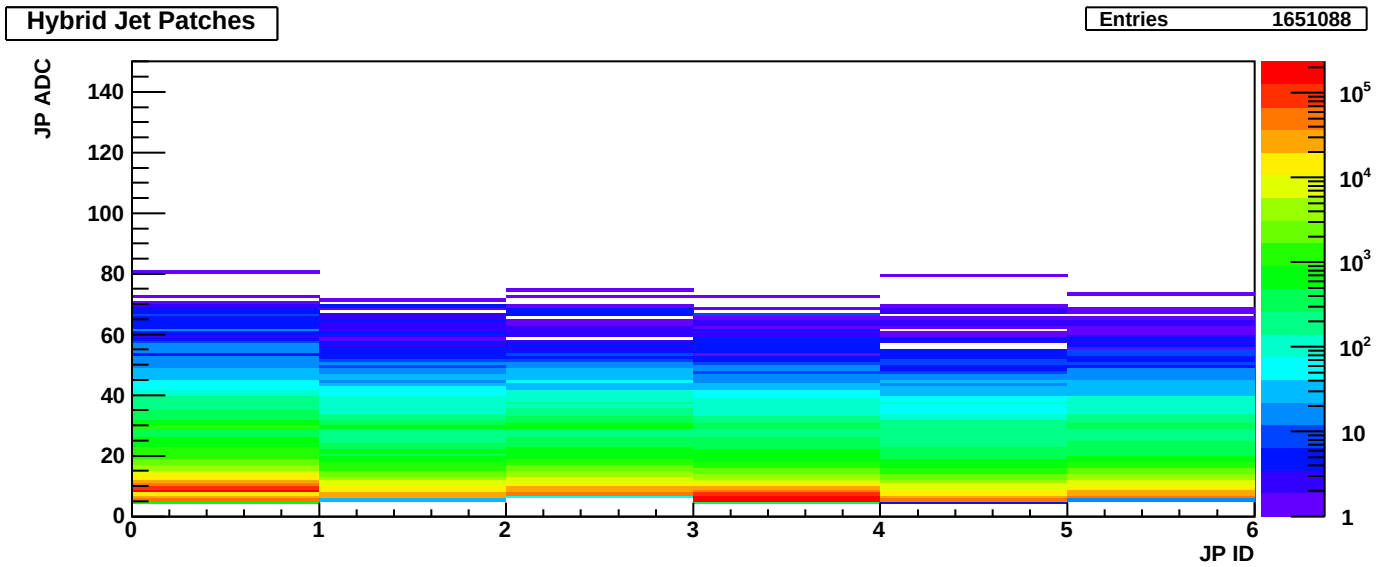

Barrel EMC L0 Input - Patch Sum
Entries 2.476632e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

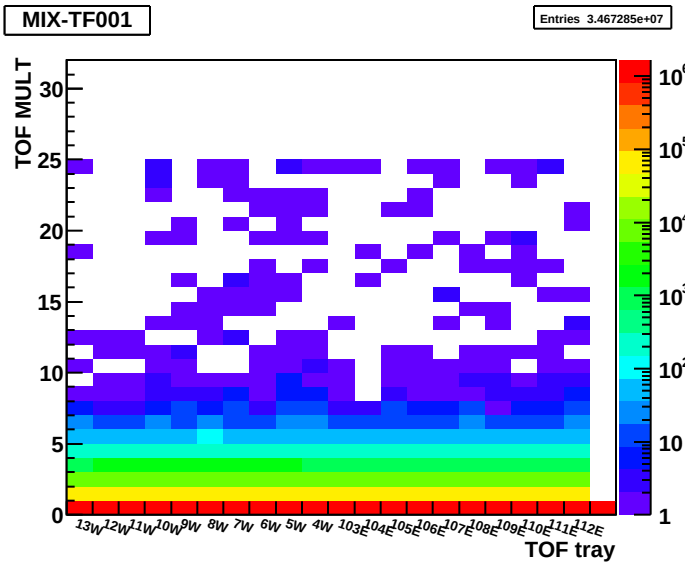

Endcap EMC L0 Input - High Tower
Entries 7.429896e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

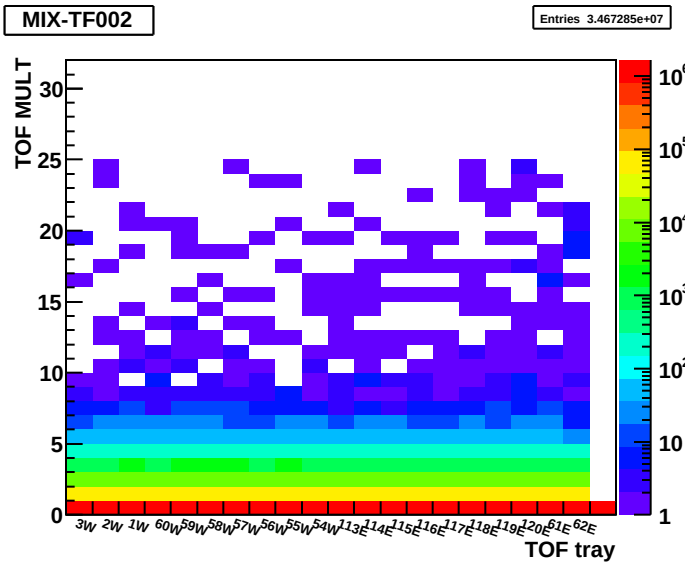

Endcap EMC L0 Input - Patch Sum
Entries 7.429896e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

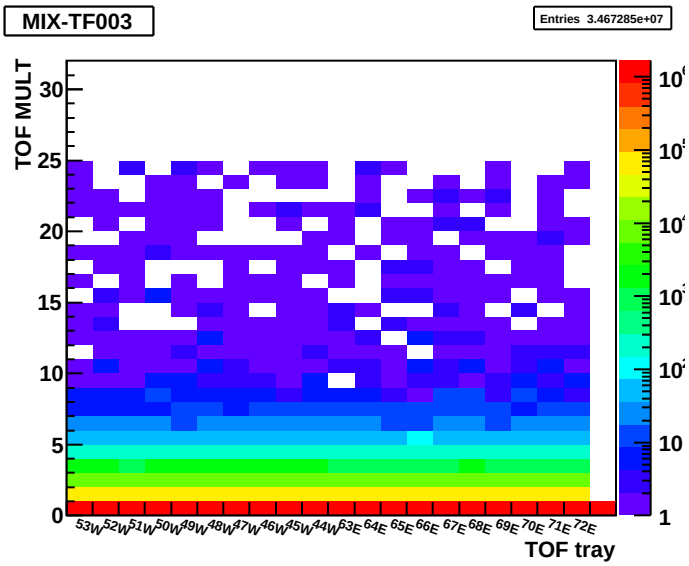

Barrel Jet Patches
Entries 1.485979e+07
JP ADC
JP ID

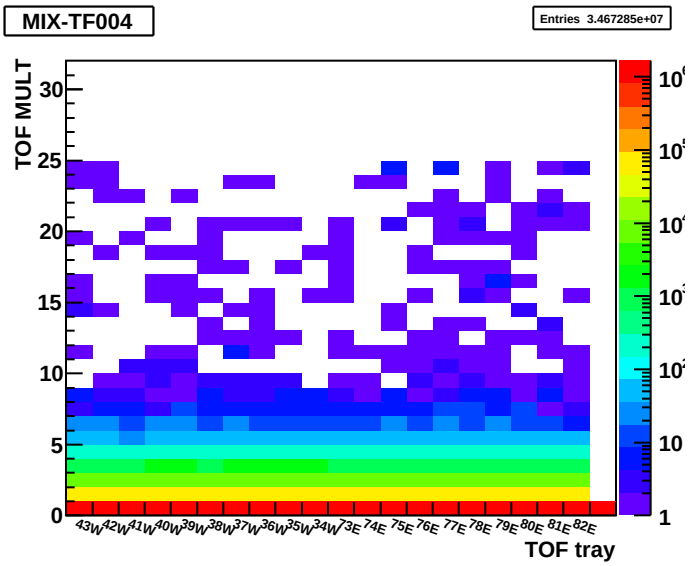

Endcap Jet Patches
Entries 4953264
JP ADC
JP ID

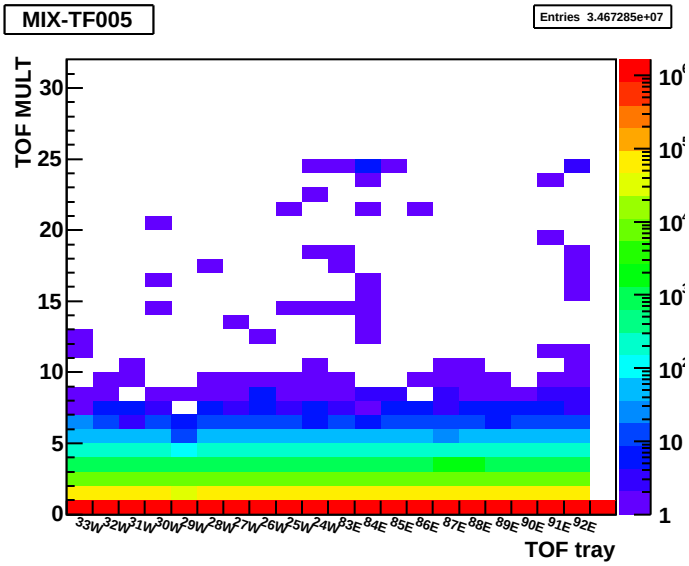

Hybrid Jet Patches
Entries 1651088
JP ADC
JP ID

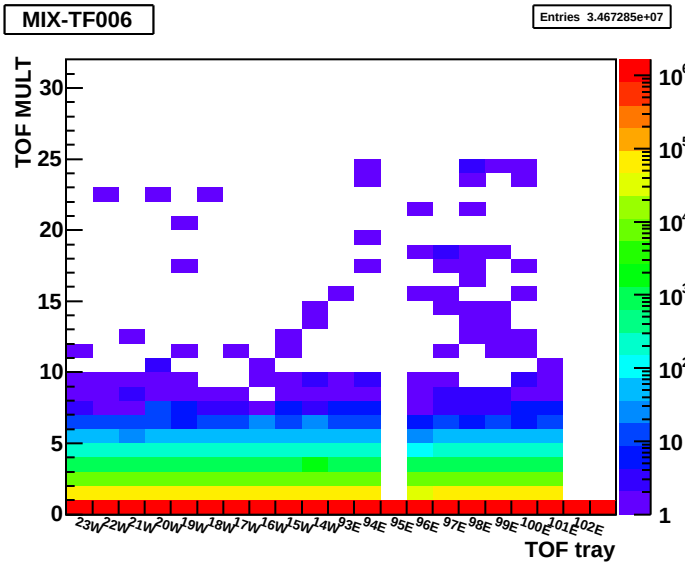

MIX-TF001
Entries 3.467285e+07
TOF MULT
TOF tray

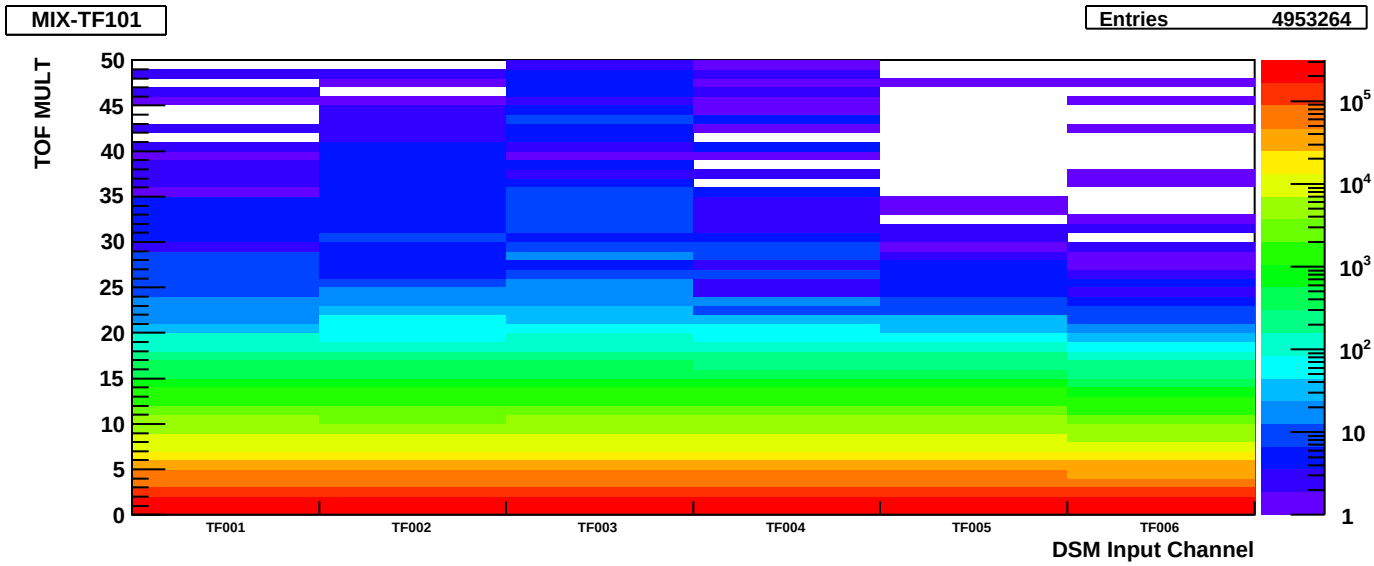

MIX-TF002
Entries 3.467285e+07
TOF MULT
TOF tray

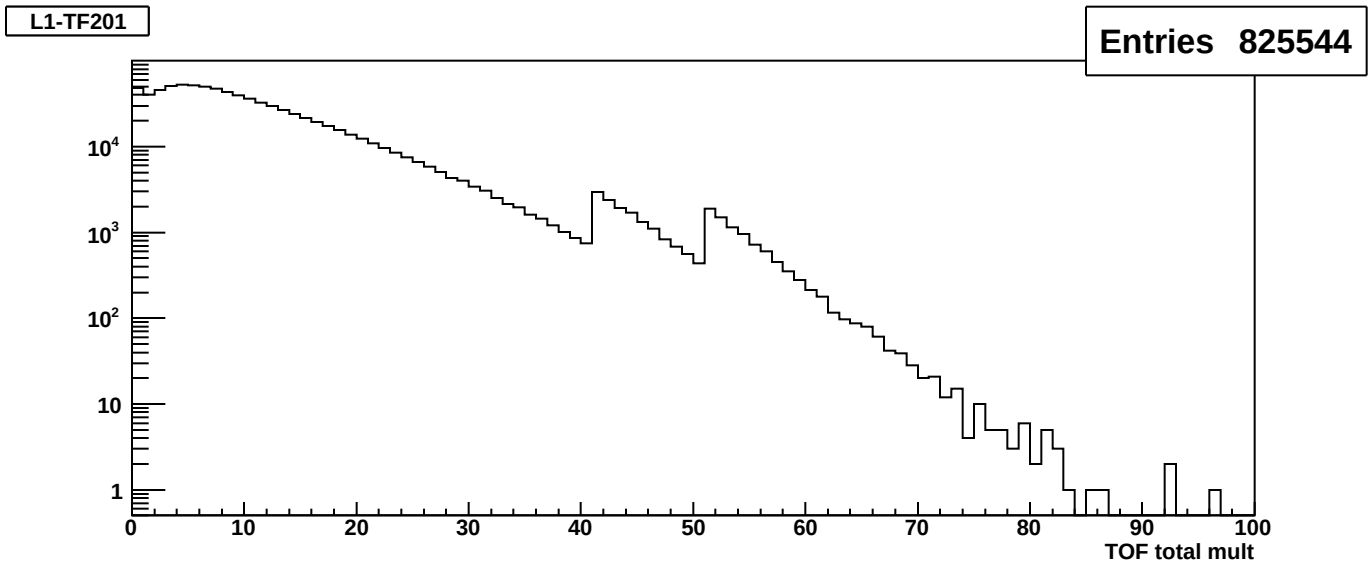

MIX-TF003
Entries 3.467285e+07
TOF MULT
TOF tray

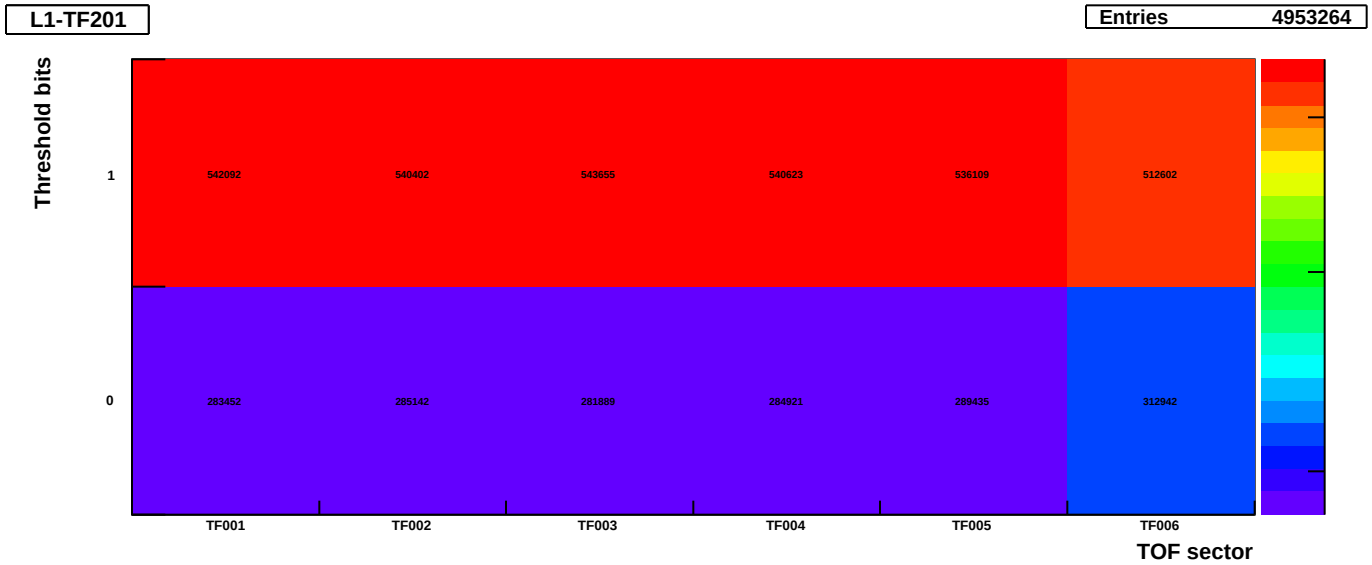

MIX-TF004
Entries 3.467285e+07
TOF MULT
TOF tray

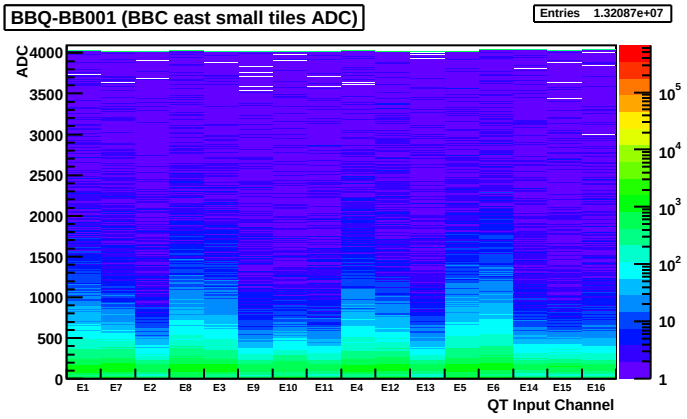

MIX-TF005
Entries 3.467285e+07
TOF MULT
TOF tray

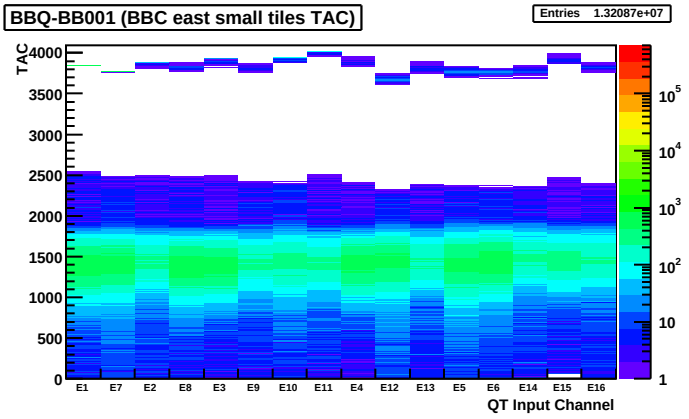

MIX-TF006
Entries 3.467285e+07
TOF MULT
TOF tray

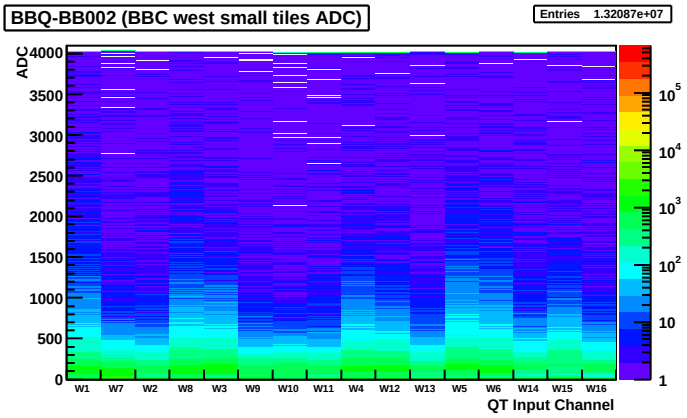

MIX-TF101
Entries 4953264
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

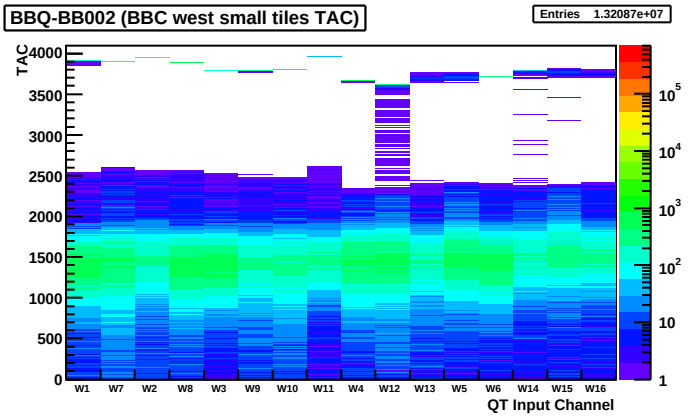

L1-TF201
Entries 825544
TOF total mult

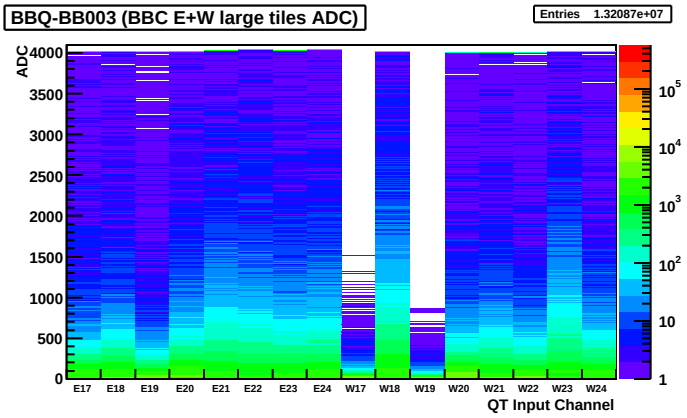

L1-TF201
Entries 4953264
Threshold bits
542092
540402
543655
540623
536109
512602
283452
285142
281889
284921
289435
312942
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

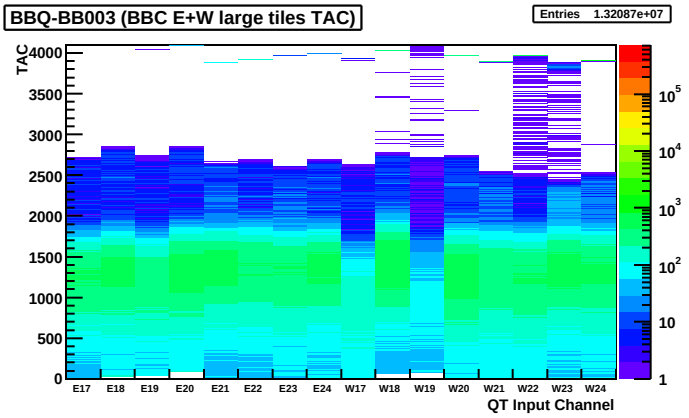

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.32087e+07
ADC
QT Input Channel

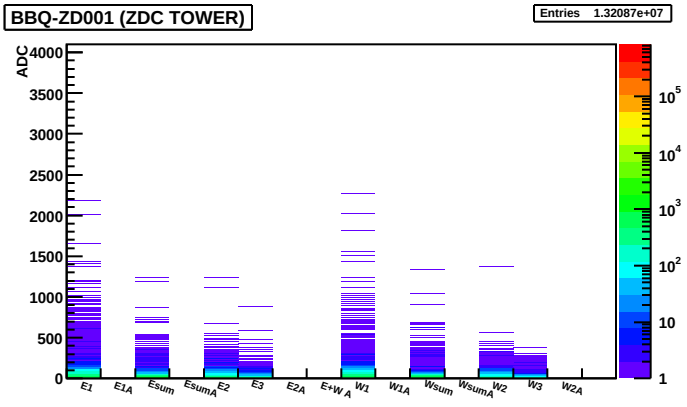

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.32087e+07
TAC
QT Input Channel

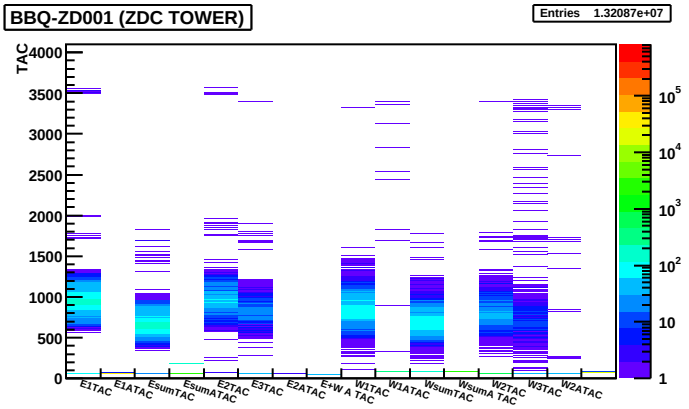

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.32087e+07
ADC
QT Input Channel

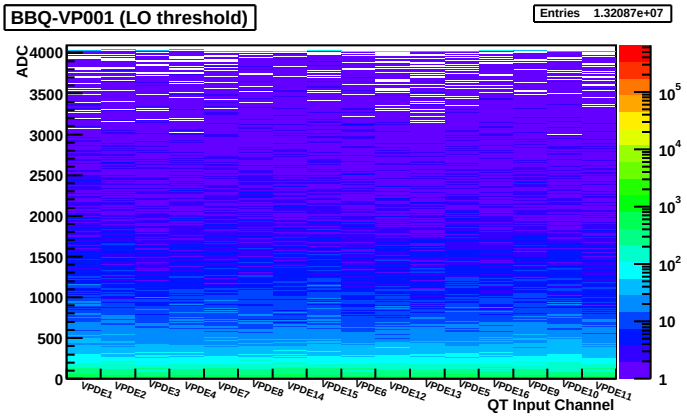

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.32087e+07
TAC
QT Input Channel

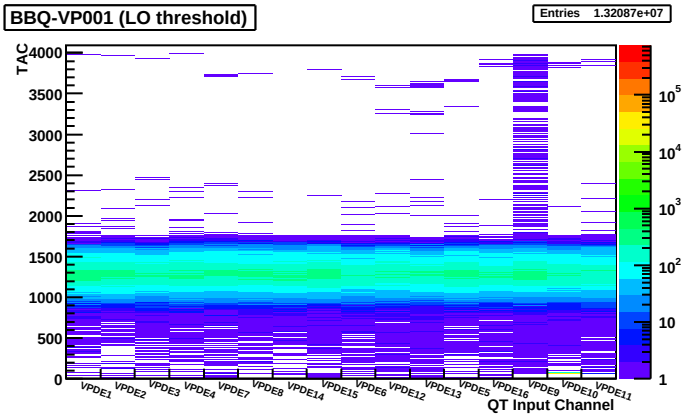

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.32087e+07
ADC
QT Input Channel

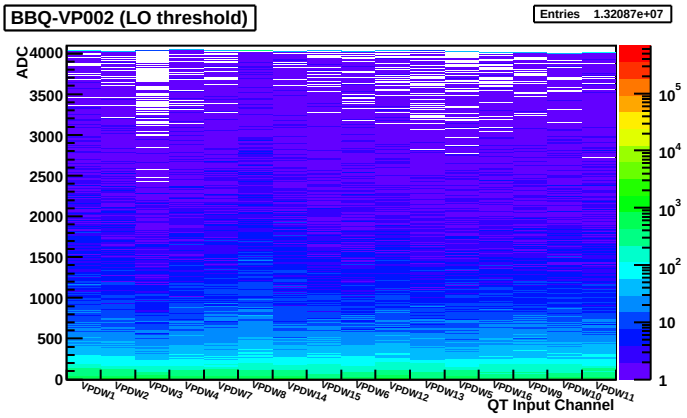

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.32087e+07
TAC
QT Input Channel

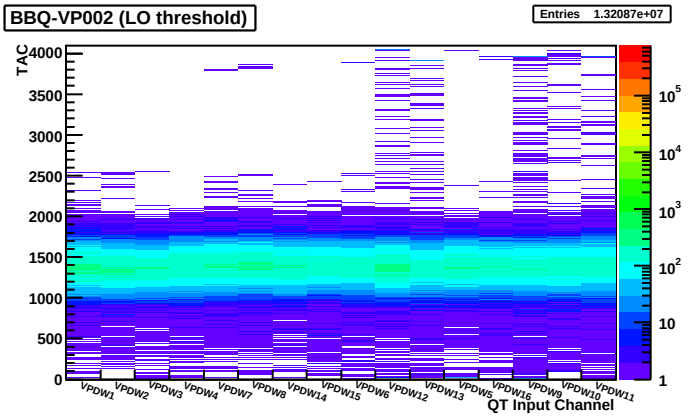

BBQ-ZD001 (ZDC TOWER)
Entries 1.32087e+07
ADC

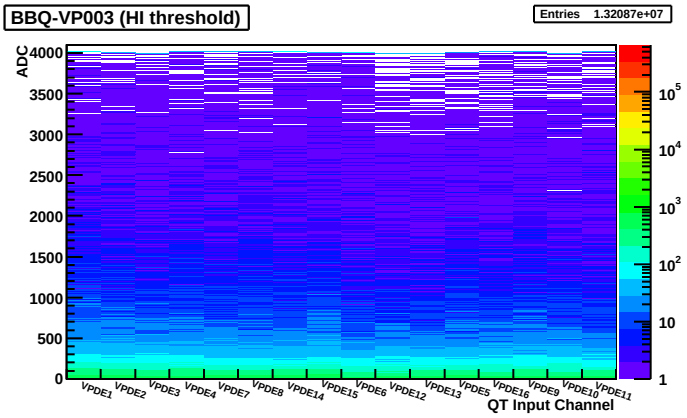

BBQ-ZD001 (ZDC TOWER)
Entries 1.32087e+07
TAC

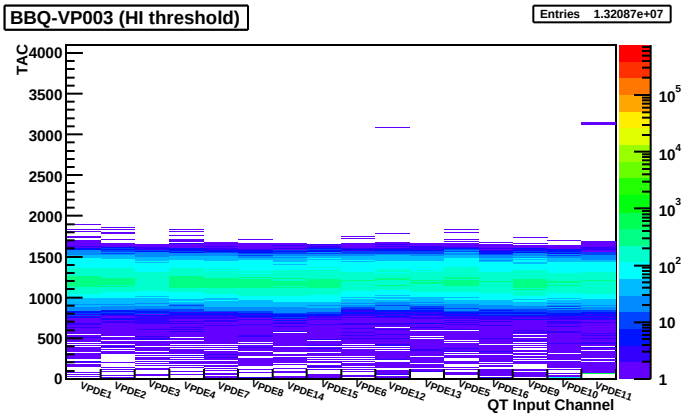

BBQ-VP001 (LO threshold)
Entries 1.32087e+07
ADC
QT Input Channel

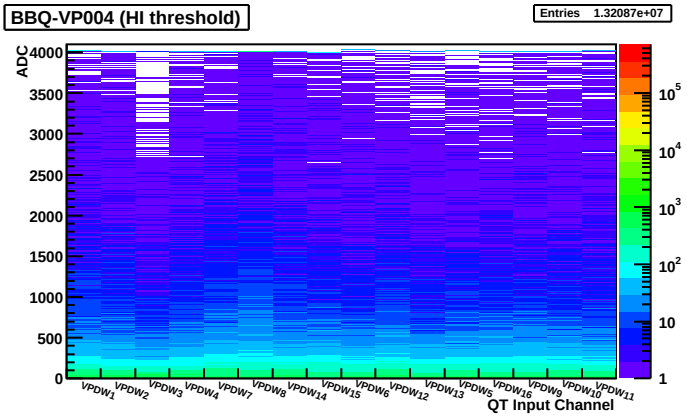

BBQ-VP001 (LO threshold)
Entries 1.32087e+07
TAC
QT Input Channel

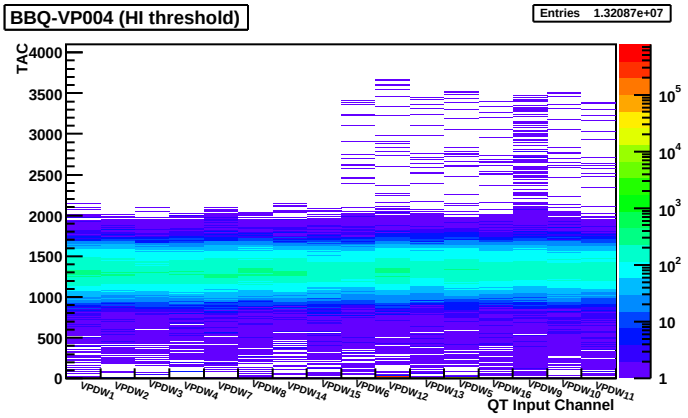

BBQ-VP002 (LO threshold)
Entries 1.32087e+07
ADC
QT Input Channel

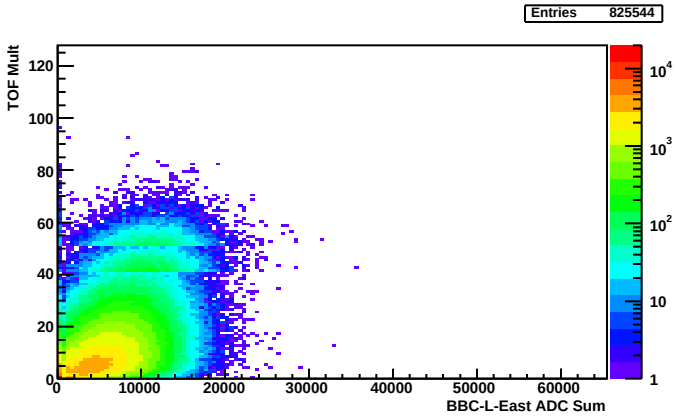

BBQ-VP002 (LO threshold)
Entries 1.32087e+07
TAC
QT Input Channel

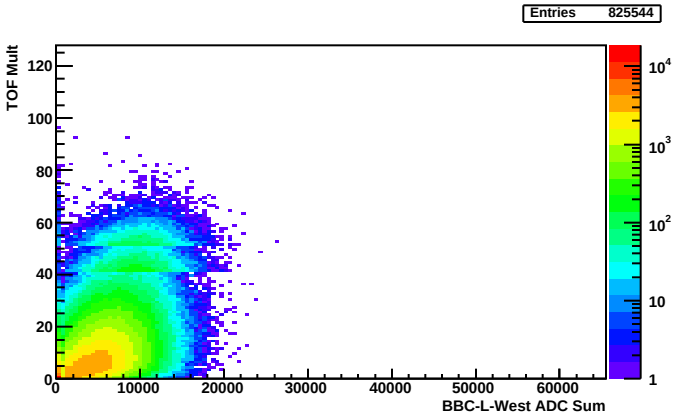

BBQ-VP003 (HI threshold)
Entries 1.32087e+07
ADC
QT Input Channel

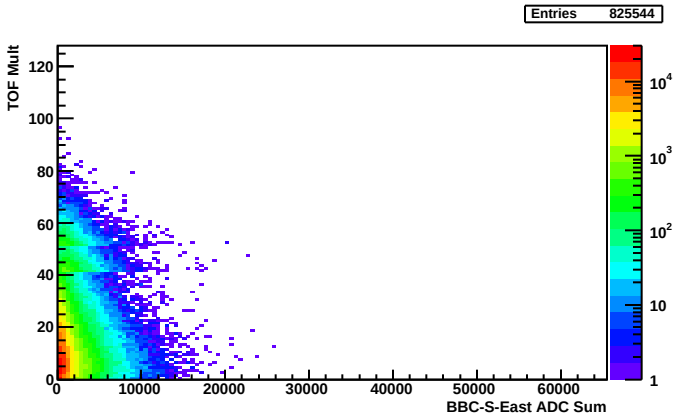

BBQ-VP003 (HI threshold)
Entries 1.32087e+07
TAC
QT Input Channel

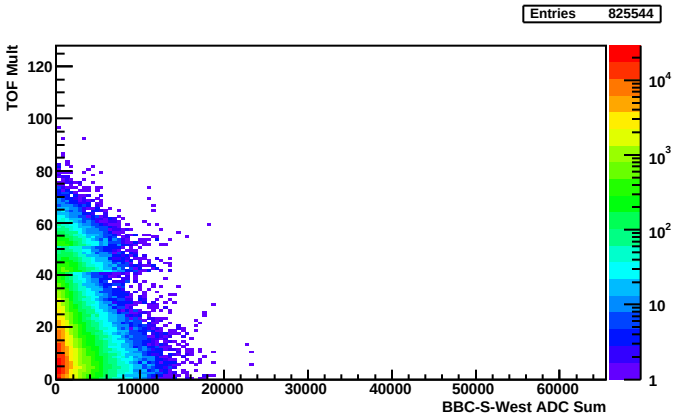

BBQ-VP004 (HI threshold)
Entries 1.32087e+07
ADC
QT Input Channel

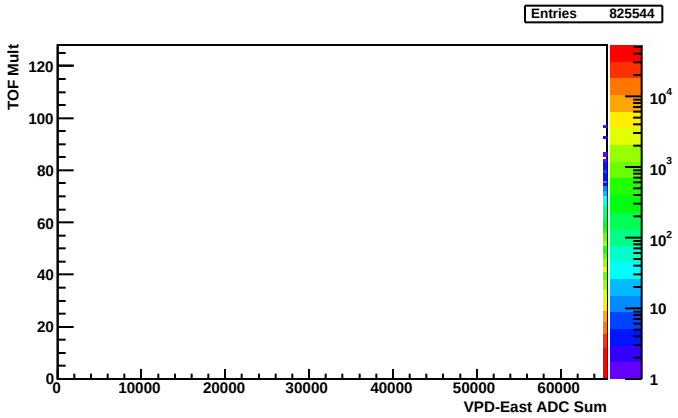

BBQ-VP004 (HI threshold)
Entries 1.32087e+07
TAC
QT Input Channel

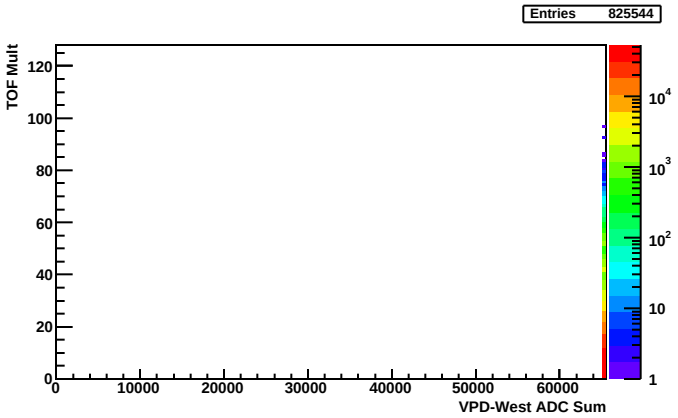

Entries 825544
TOF Mult
BBC-L-East ADC Sum

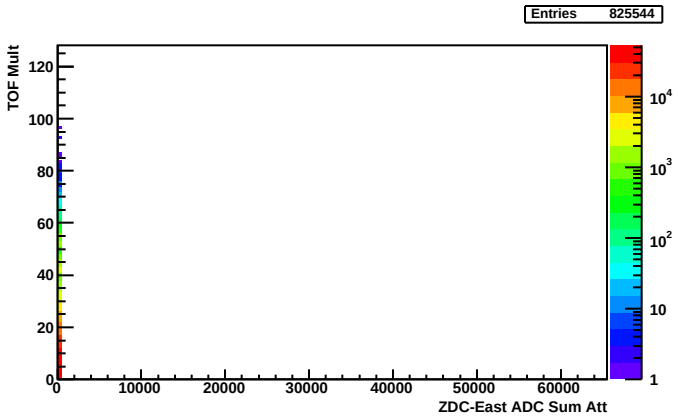

Entries 825544
TOF Mult
BBC-L-West ADC Sum

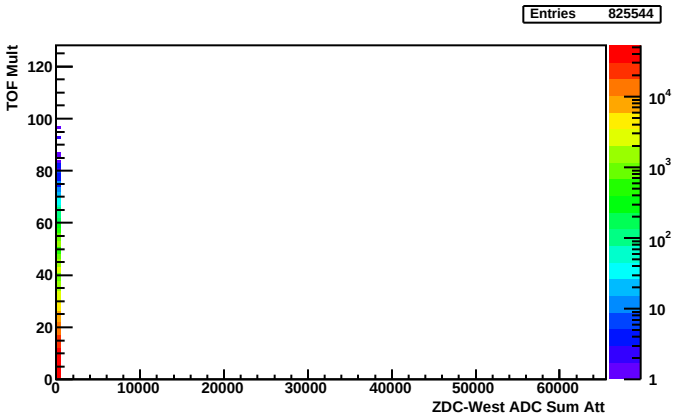

Entries 825544
TOF Mult
BBC-S-East ADC Sum

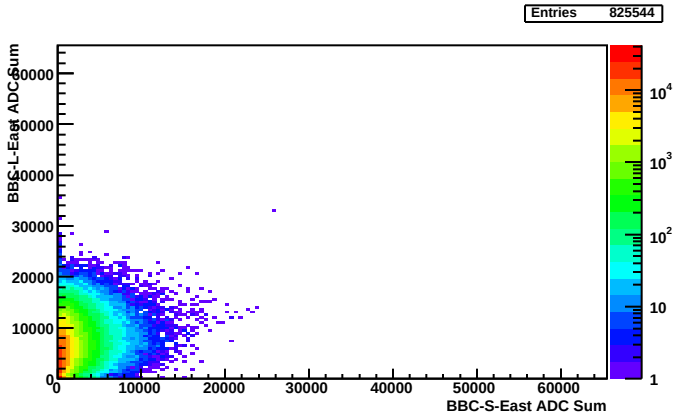

Entries 825544
TOF Mult
BBC-S-West ADC Sum

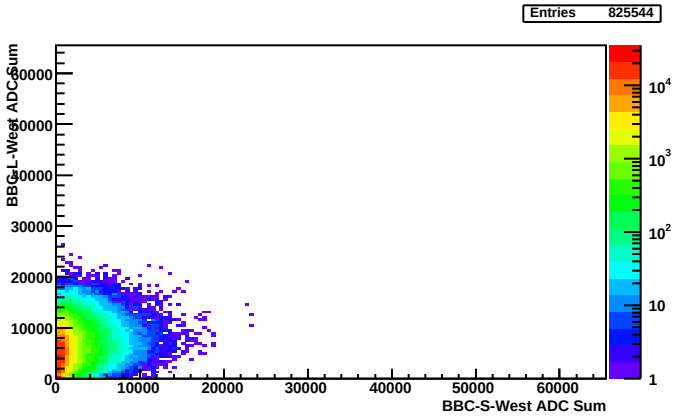

Entries 825544
TOF Mult
VPD-East ADC Sum

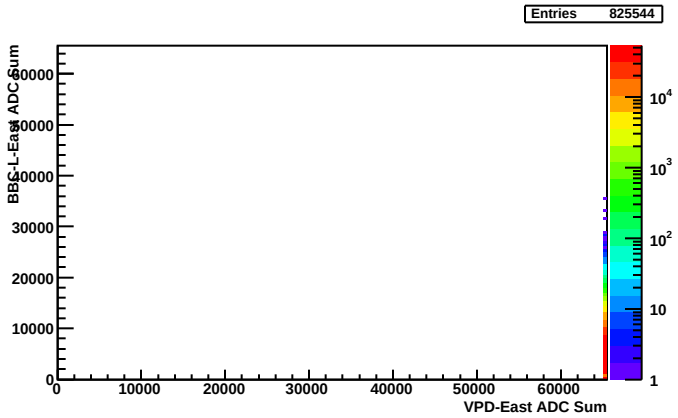

Entries 825544
TOF Mult
VPD-West ADC Sum

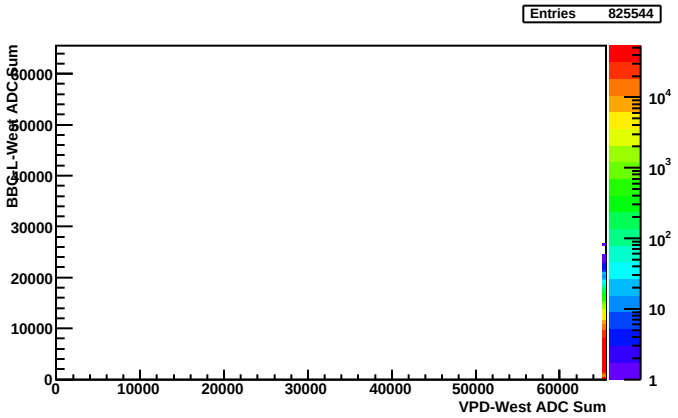

Entries 825544
TOF Mult
ZDC-East ADC Sum Att

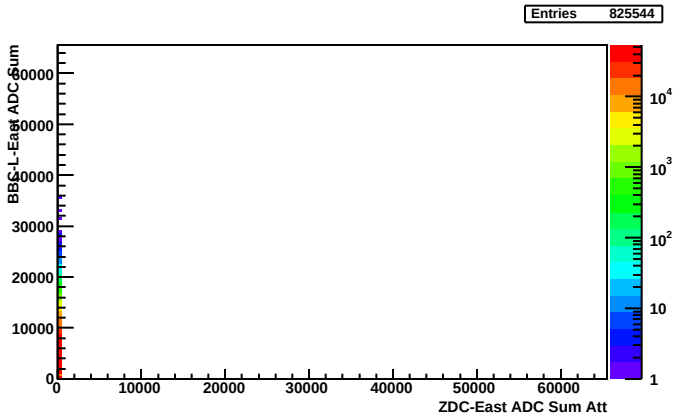

Entries 825544
TOF Mult
ZDC-West ADC Sum Att

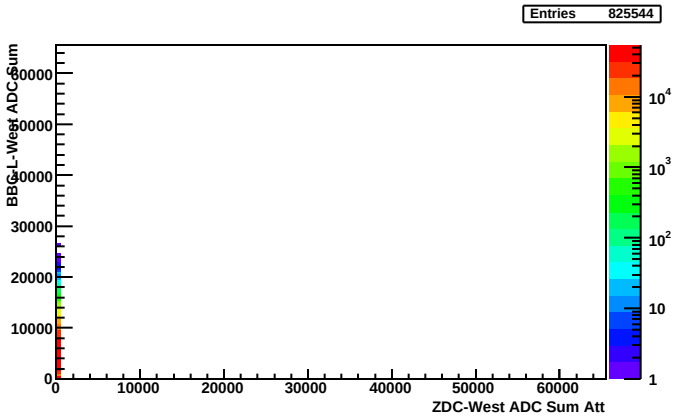

Entries 825544
BBC-L-East ADC Sum
BBC-S-East ADC Sum

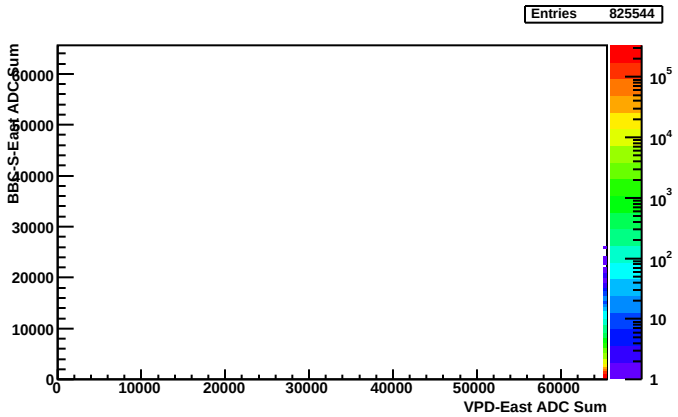

Entries 825544
BBC-L-West ADC Sum
BBC-S-West ADC Sum

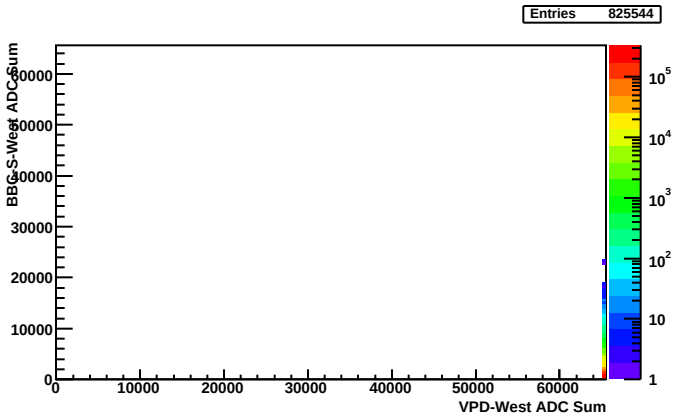

Entries 825544
BBC-L-East ADC Sum
VPD-East ADC Sum

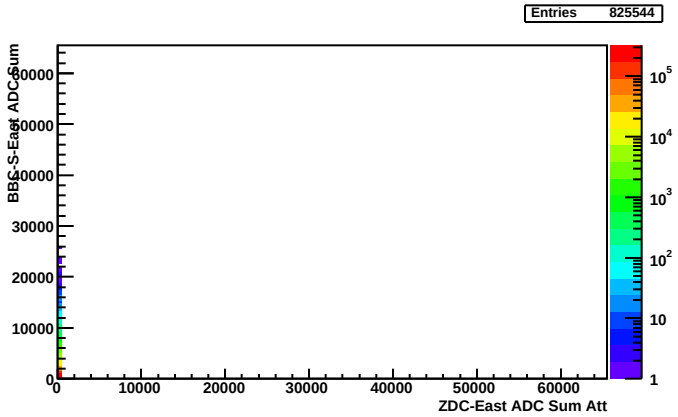

Entries 825544
BBC-L-West ADC Sum
VPD-West ADC Sum

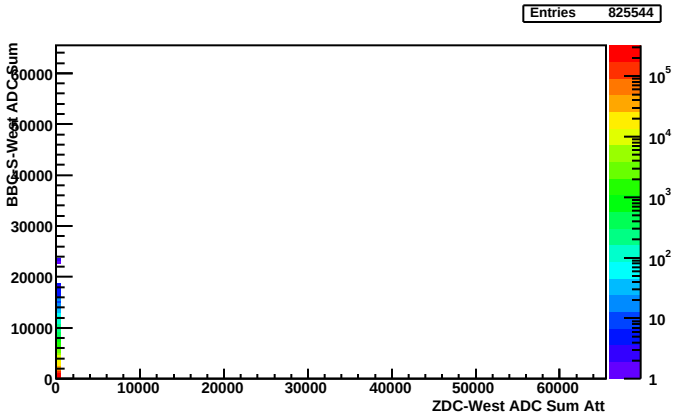

Entries 825544
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

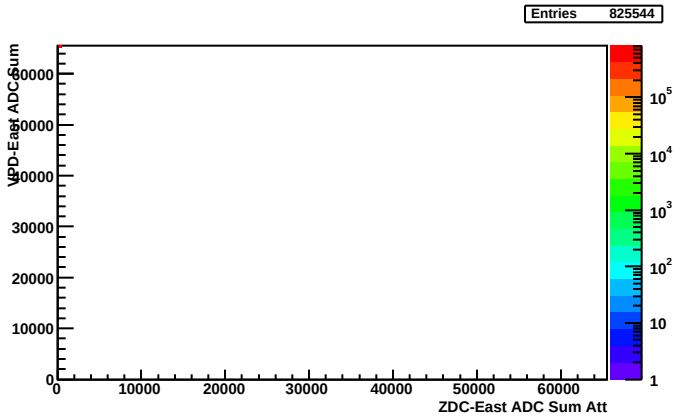

Entries 825544
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

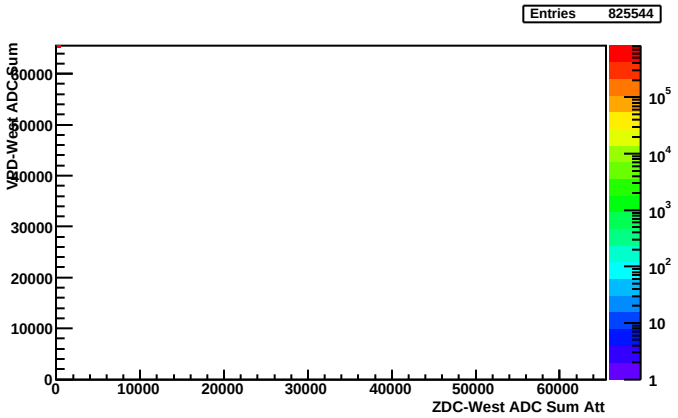

Entries 825544
BBC-S-East ADC Sum
VPD-East ADC Sum

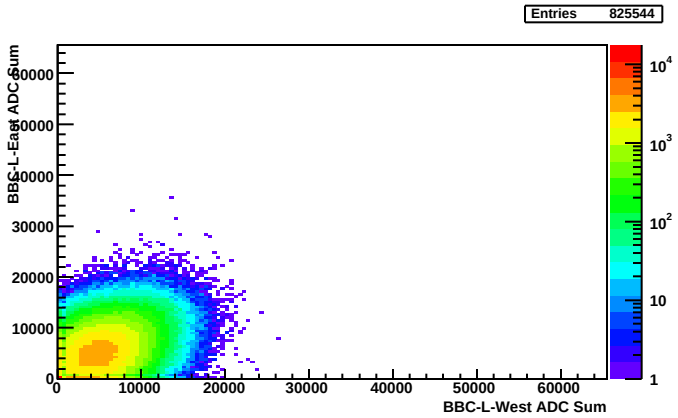

Entries 825544
BBC-S-West ADC Sum
VPD-West ADC Sum

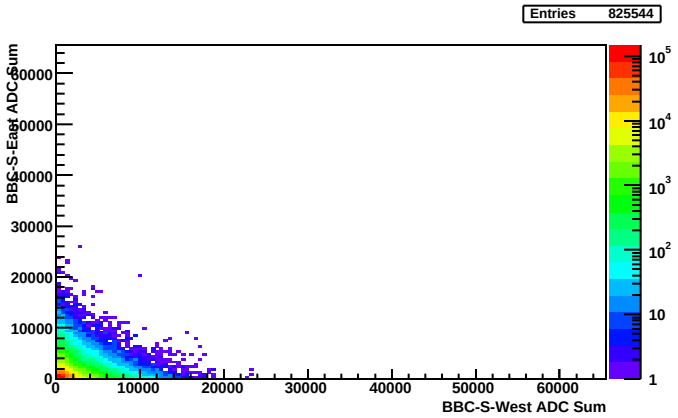

Entries 825544
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

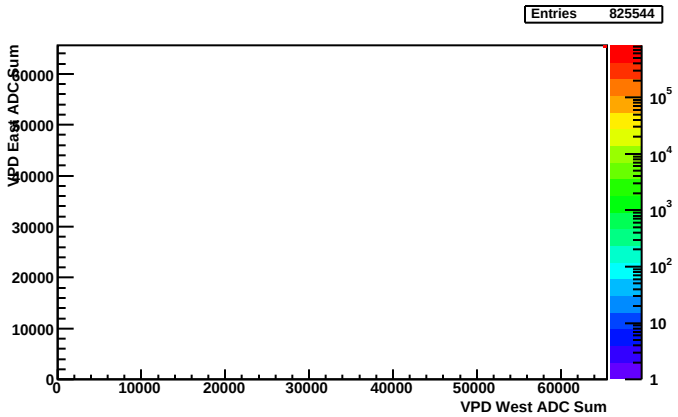

Entries 825544
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

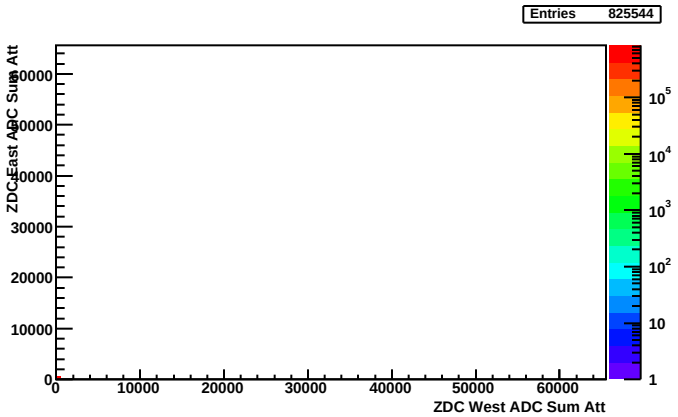

Entries 825544
VPD-East ADC Sum
ZDC-East ADC Sum Att

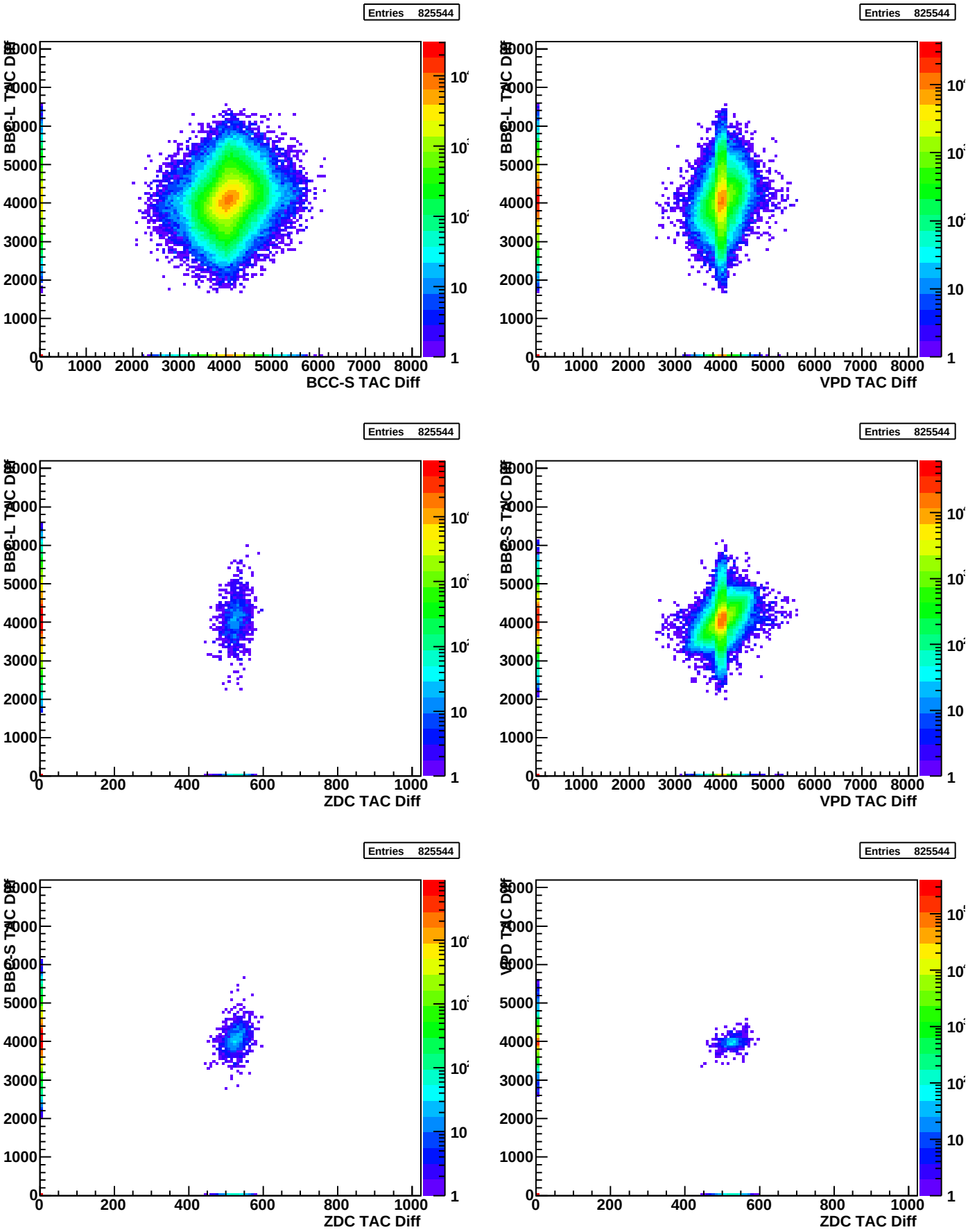

Entries 825544
VPD-West ADC Sum
ZDC-West ADC Sum Att

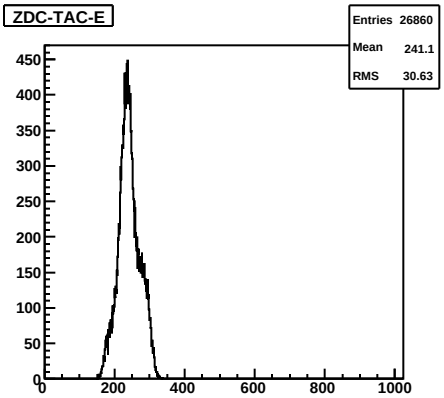

Entries 825544
BBC-L-East ADC Sum
BBC-L-West ADC Sum

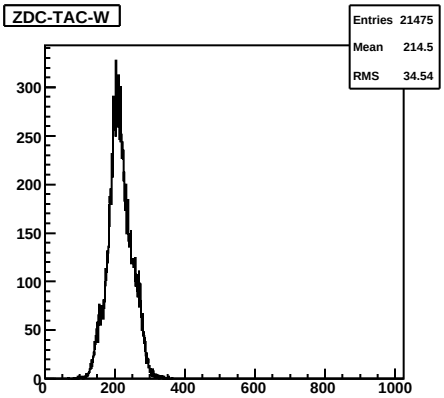

Entries 825544
BBC-S-East ADC Sum
BBC-S-West ADC Sum

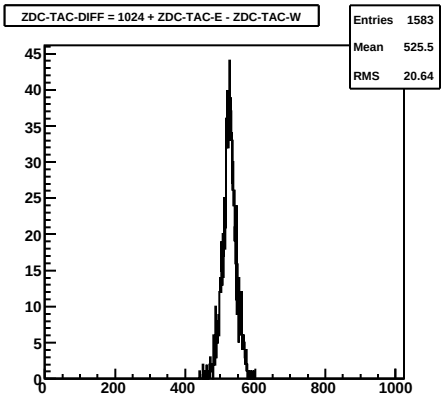

Entries 825544
VPD East ADC Sum
VPD West ADC Sum

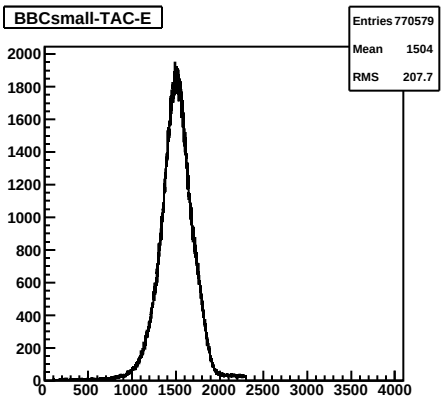

Entries 825544
ZDC East ADC Sum Att
ZDC West ADC Sum Att

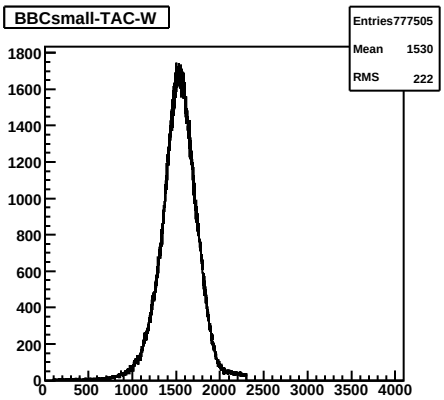

Entries 825544
BBC-L TAC Diff
BCC-S TAC Diff
Entries 825544
BBC-L TAC Diff
VPD TAC Diff
Entries 825544
BBC-L TAC Diff
ZDC TAC Diff
Entries 825544
BBC-S TAC Diff
VPD TAC Diff
Entries 825544
BBC-S TAC Diff
ZDC TAC Diff
Entries 825544
VPD TAC Diff
ZDC TAC Diff

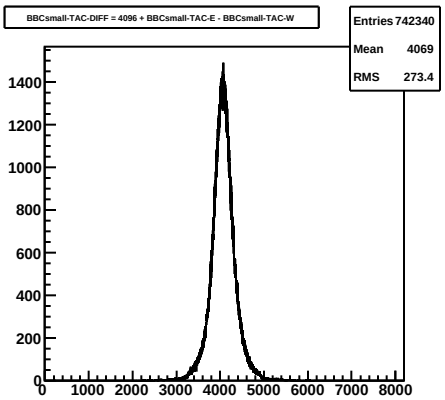

ZDC-TAC-E
Entries 26860
Mean 241.1
RMS 30.63

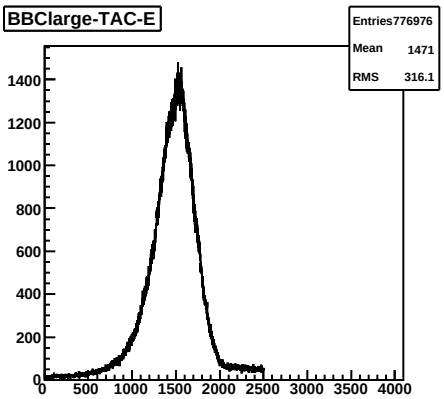

ZDC-TAC-W
Entries 21475
Mean 214.5
RMS 34.54

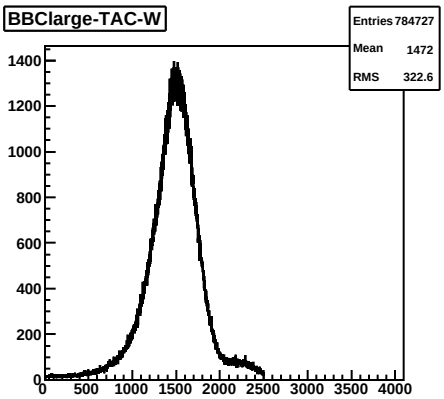

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1583
Mean 525.5
RMS 20.64

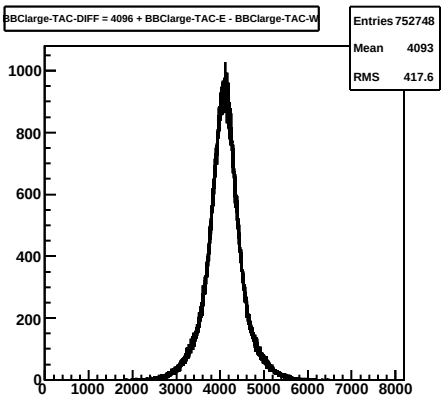

BBCsmall-TAC-E
Entries 770579
Mean 1504
RMS 207.7

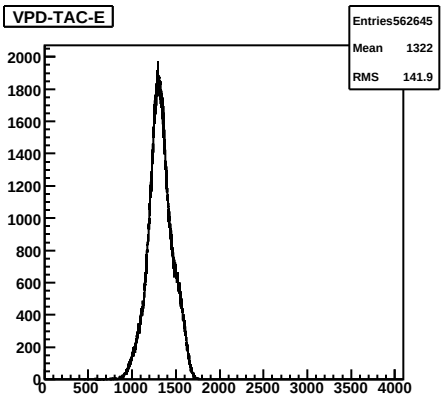

BBCsmall-TAC-W
Entries 777505
Mean 1530
RMS 222

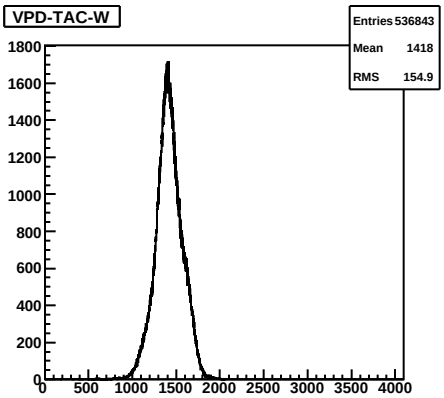

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 742340
Mean 4069
RMS 273.4

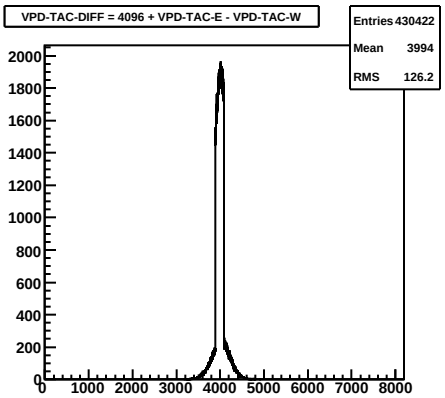

BBClarge-TAC-E
Entries 776976
Mean 1471
RMS 316.1

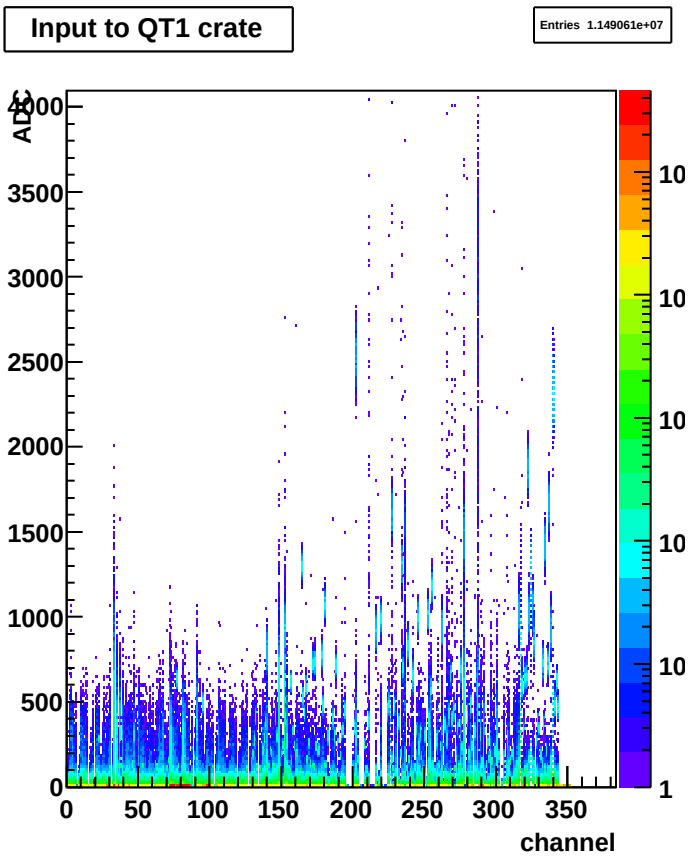

BBClarge-TAC-W
Entries 784727
Mean 1472
RMS 322.6

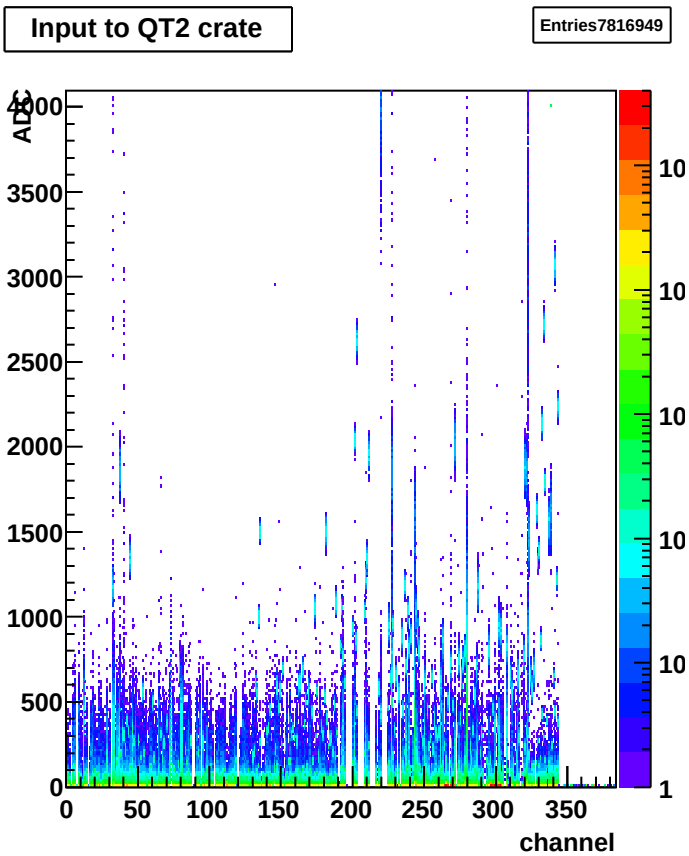

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 752748
Mean 4093
RMS 417.6

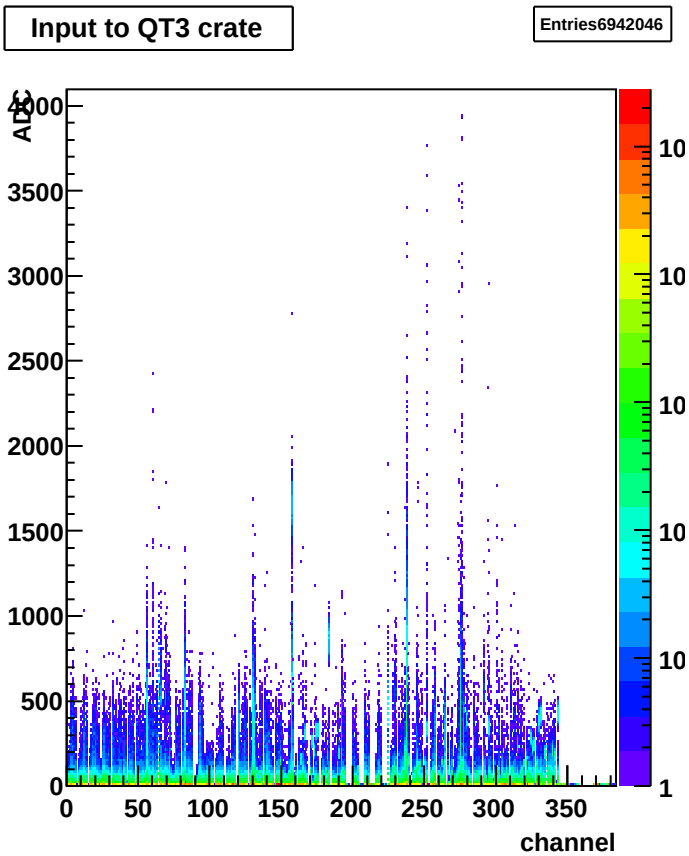

VPD-TAC-E
Entries 562645
Mean 1322
RMS 141.9

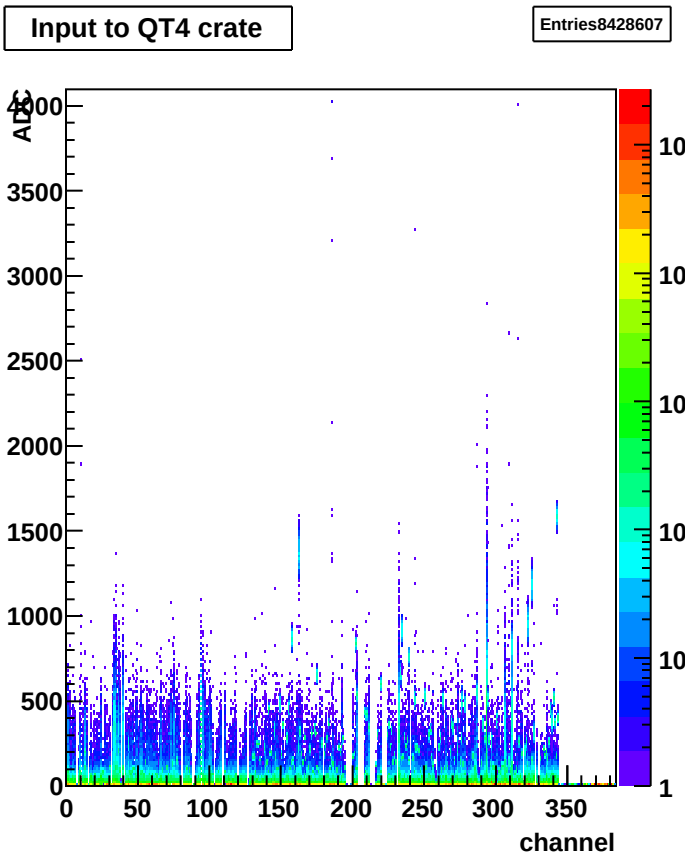

VPD-TAC-W
Entries 536843
Mean 1418
RMS 154.9

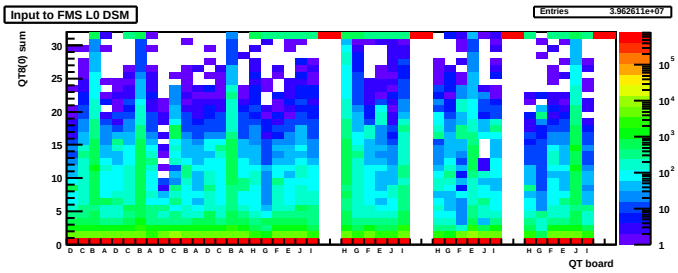

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 430422
Mean 3994
RMS 126.2

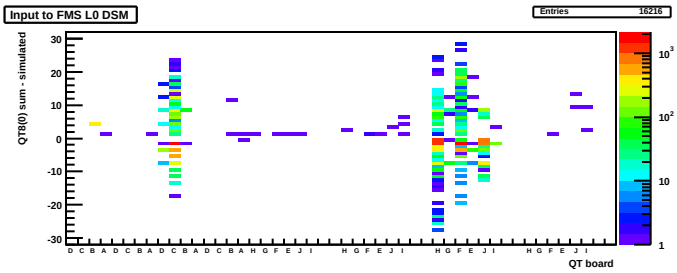

Input to QT1 crate
Entries 1.149061e+07
ADC
channel

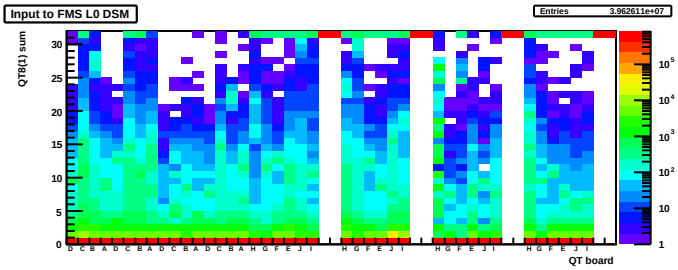

Input to QT2 crate
Entries7816949
ADC
channel

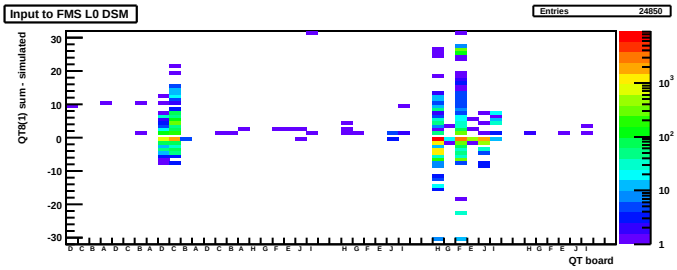

Input to QT3 crate
Entries6942046
ADC
channel

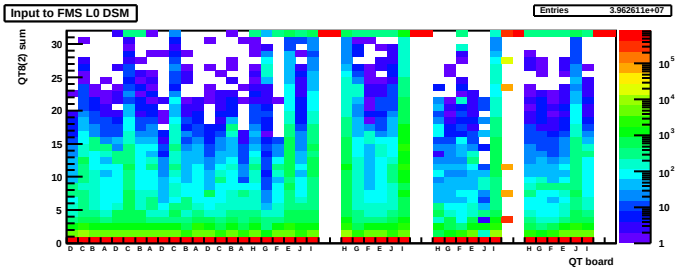

Input to QT4 crate
Entries8428607
ADC
channel

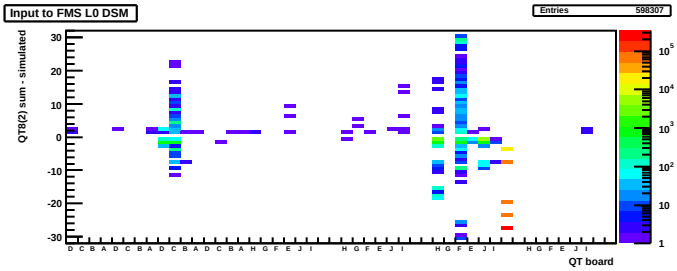

Input to FMS L0 DSM
Entries 3.962611e+07
QT8(0) sum
QT board

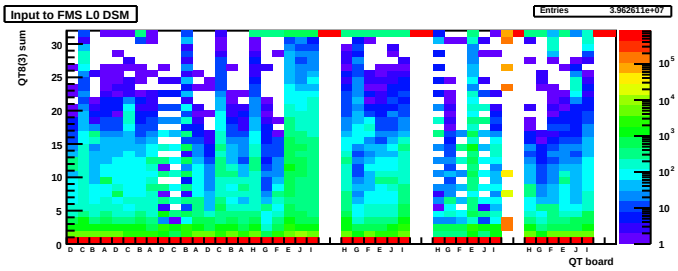

Input to FMS L0 DSM
Entries 16216
QT8(0) sum - simulated
QT board

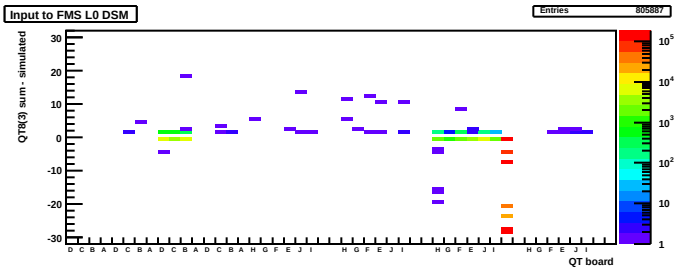

Input to FMS L0 DSM
Entries 3.962611e+07
QT8(1) sum
QT board

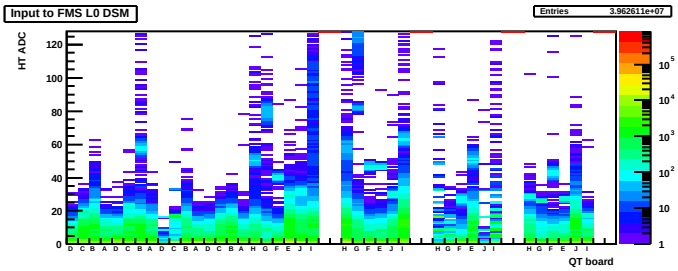

Input to FMS L0 DSM
Entries 24850
QT8(1) sum - simulated
QT board

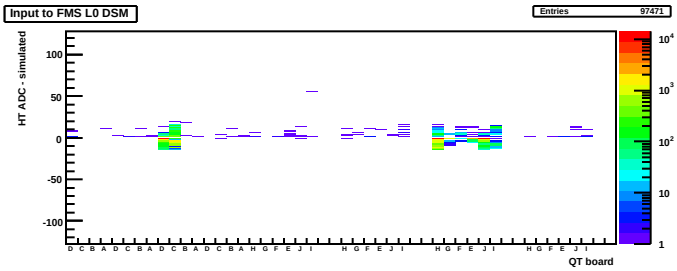

Input to FMS L0 DSM
Entries 3.962611e+07
QT8(2) sum
QT board

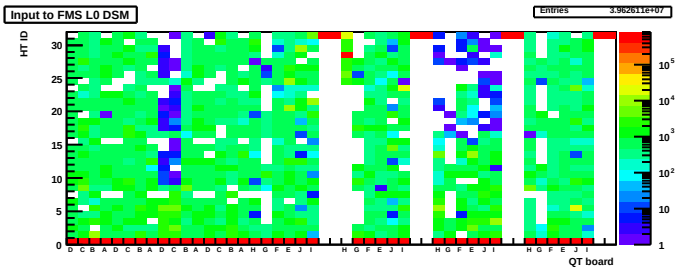

Input to FMS L0 DSM
Entries 598307
QT8(2) sum - simulated
QT board

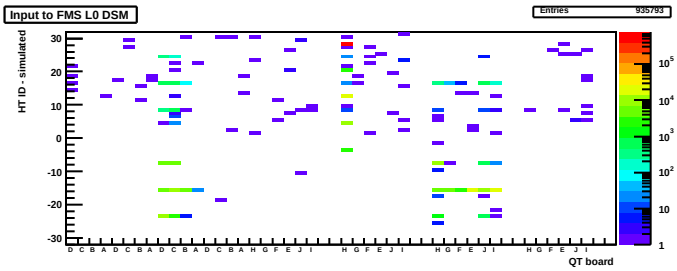

Input to FMS L0 DSM
Entries 3.962611e+07
QT8(3) sum
QT board

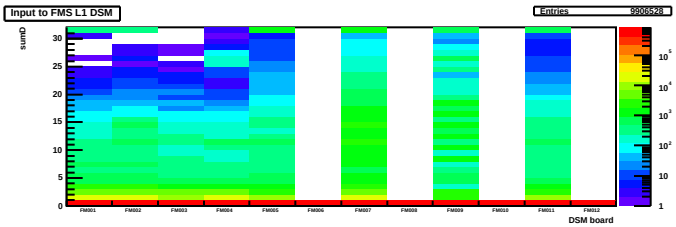

Input to FMS L0 DSM
Entries 805887
QT8(3) sum - simulated
QT board

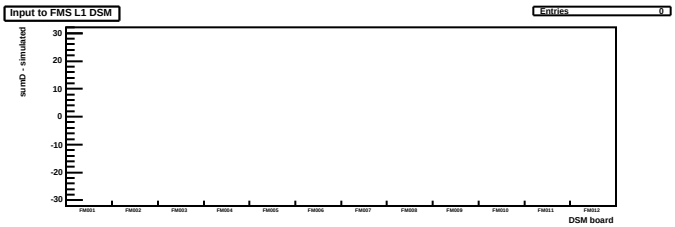

Input to FMS L0 DSM
Entries 3.962611e+07
HT ADC
QT board

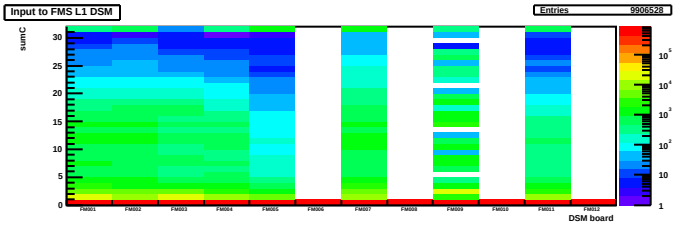

Input to FMS L0 DSM
Entries 97471
HT ADC - simulated
QT board

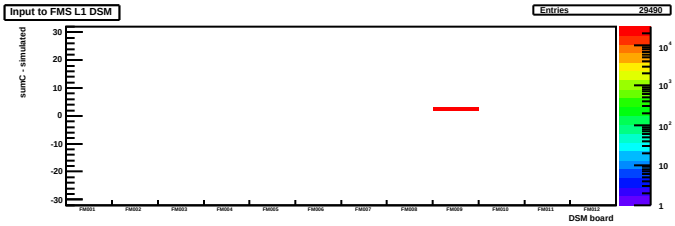

Input to FMS L0 DSM
Entries 3.962611e+07
HT ID
QT board

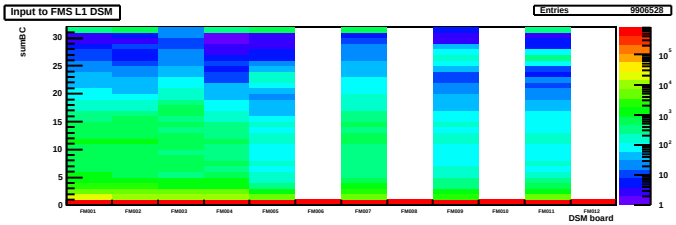

Input to FMS L0 DSM
Entries 935793
HT ID - simulated
QT board

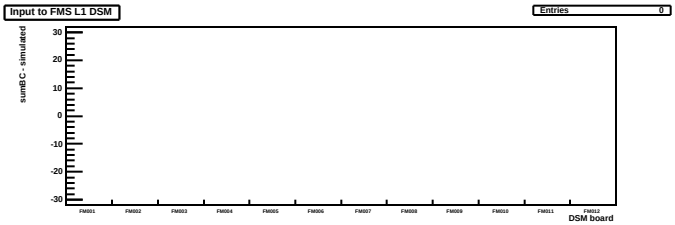

Input to FMS L1 DSM
Entries 9906528
sumD
DSM board

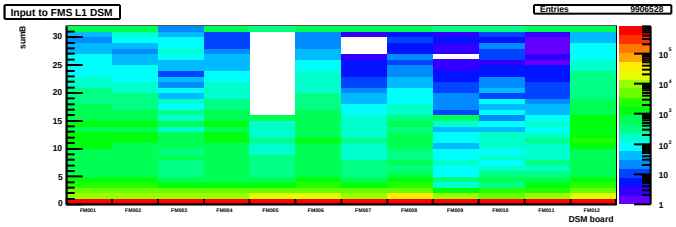

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

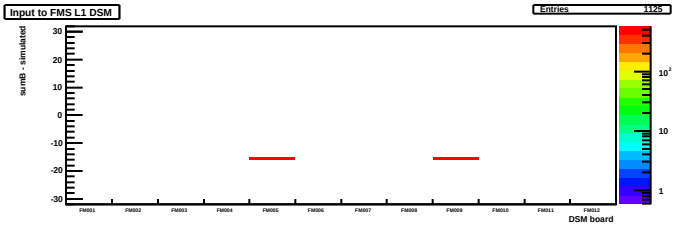

Input to FMS L1 DSM
Entries 9906528
sumC
DSM board

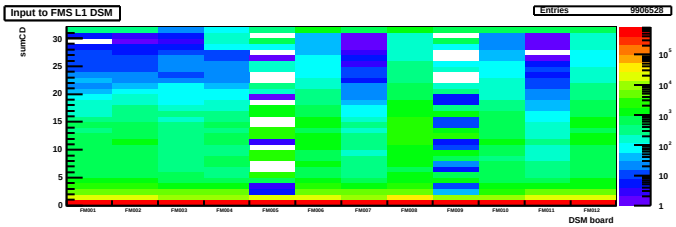

Input to FMS L1 DSM
Entries 29490
sumC - simulated
DSM board

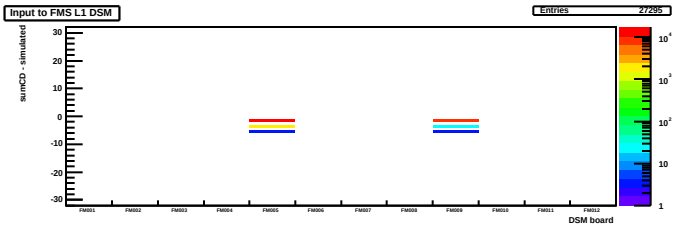

Input to FMS L1 DSM
Entries 9906528
sumBC
DSM board

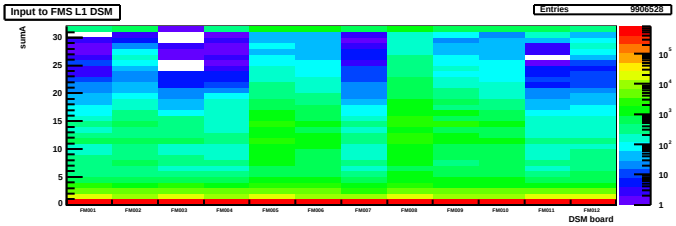

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

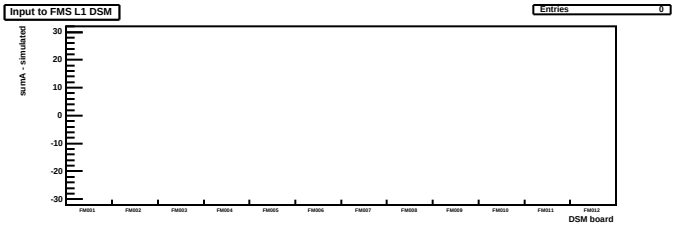

Input to FMS L1 DSM
Entries 9906528
sumB
DSM board

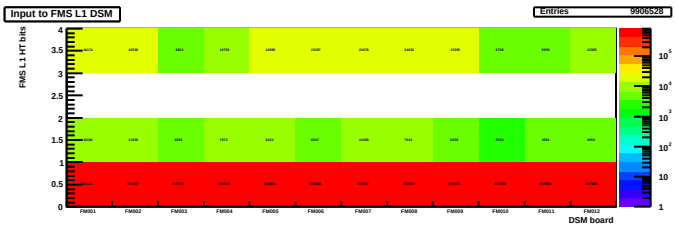

Input to FMS L1 DSM
Entries 1125
sumB - simulated
DSM board

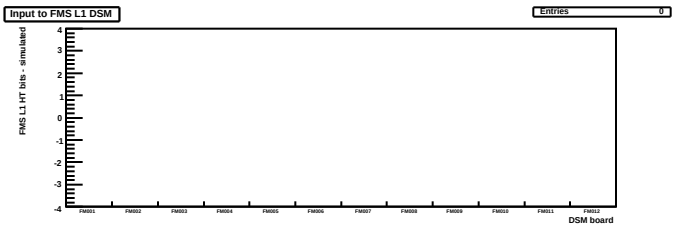

Input to FMS L1 DSM
Entries 9906528
sumCD
DSM board

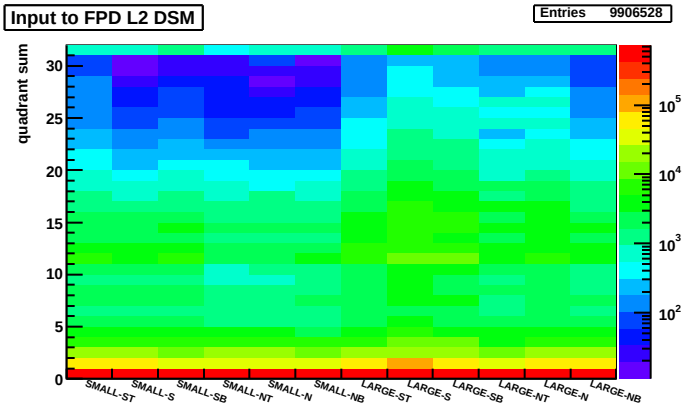

Input to FMS L1 DSM
Entries 27295
sumCD - simulated
DSM board

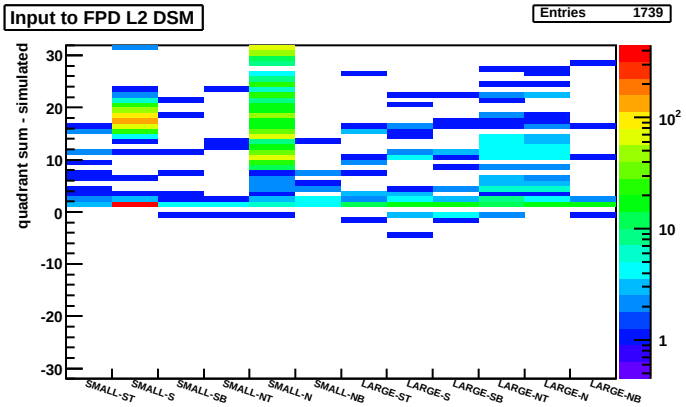

Input to FMS L1 DSM
Entries 9906528
sumA
DSM board

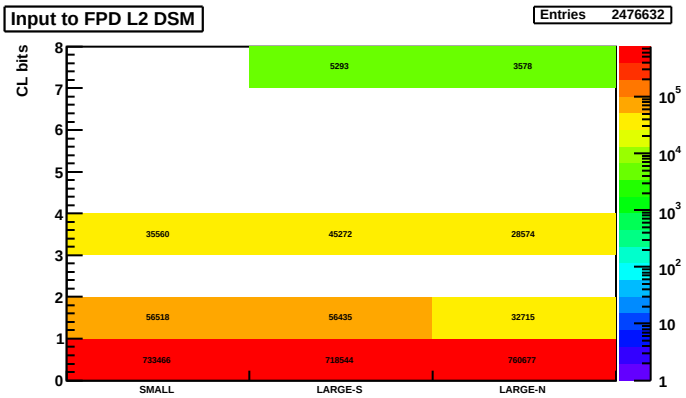

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

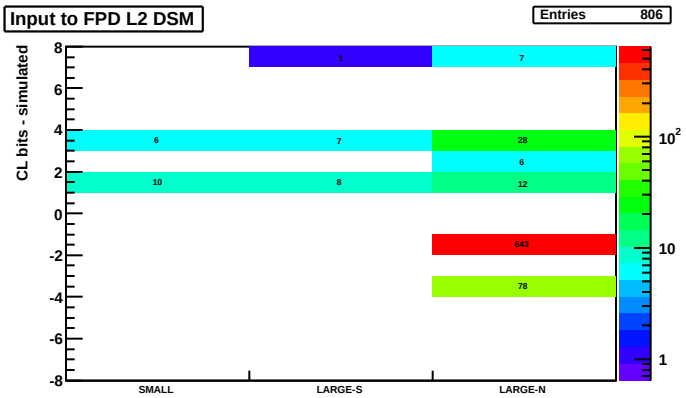

Input to FMS L1 DSM
Entries 9906528
FMS L1 HT bits
DSM board

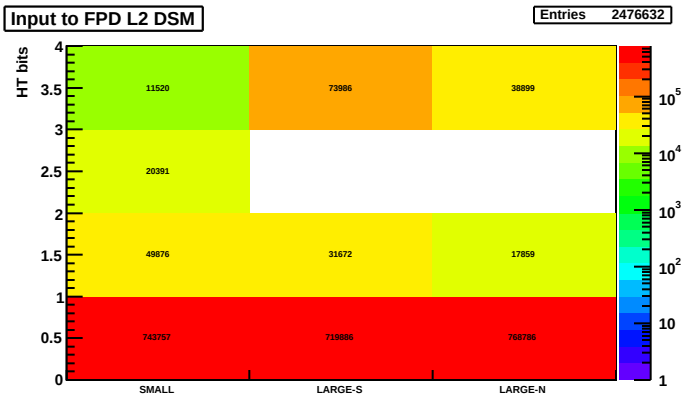

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

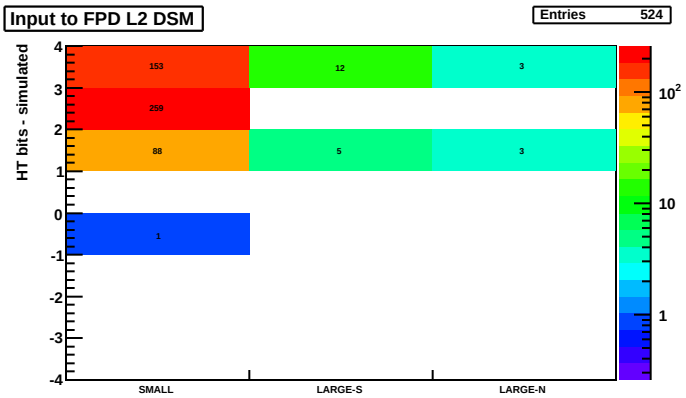

Input to FPD L2 DSM
Entries 9906528
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

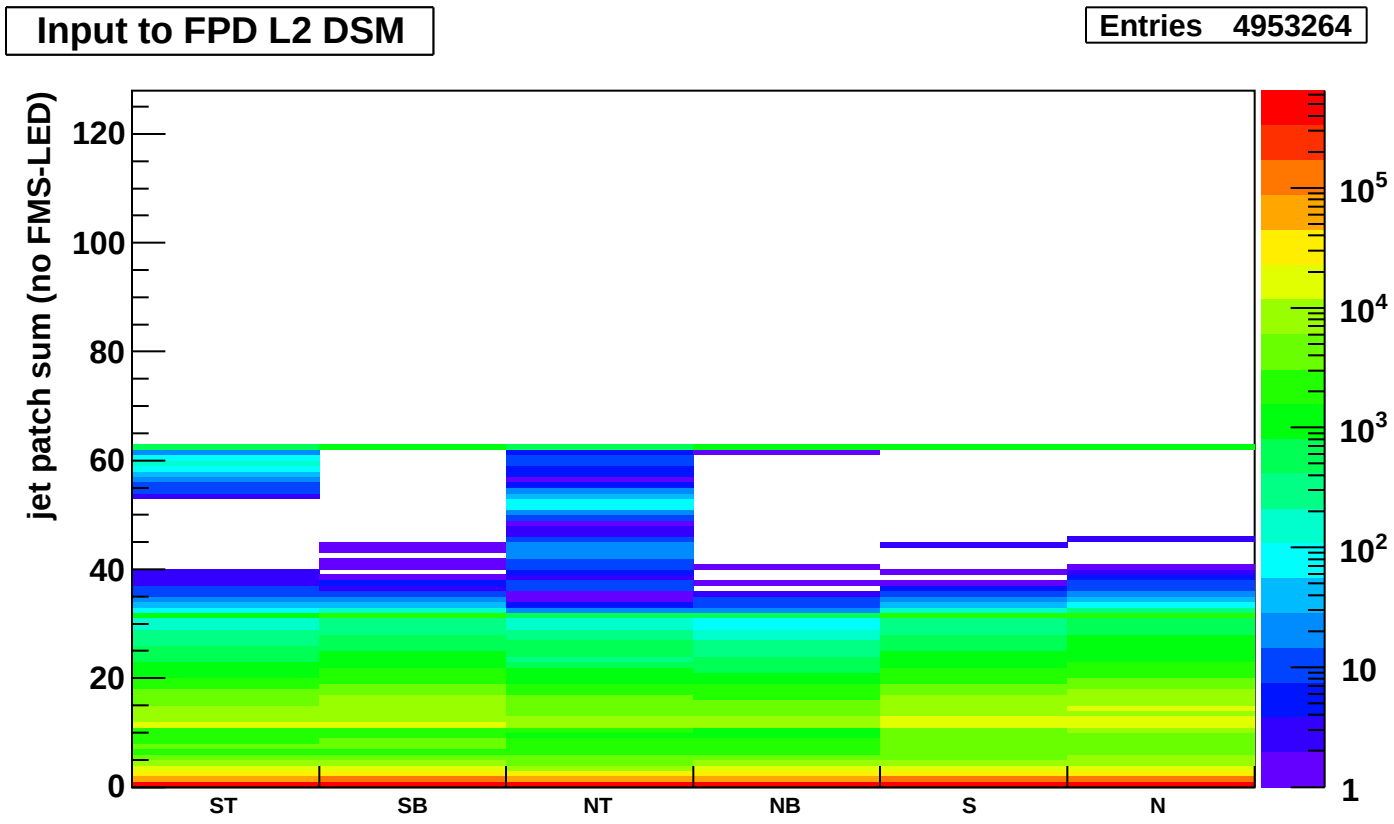

Input to FPD L2 DSM
Entries 1739
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

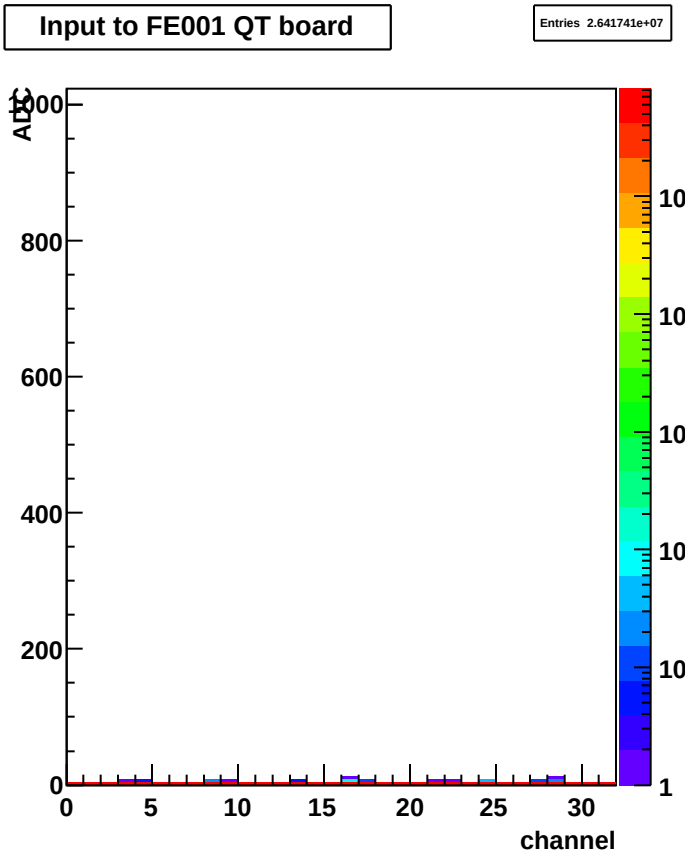

Input to FPD L2 DSM
Entries 2476632
CL bits
5293
3578
35560
45272
28574
56518
56435
32715
733466
718544
760677
SMALL
LARGE-S
LARGE-N

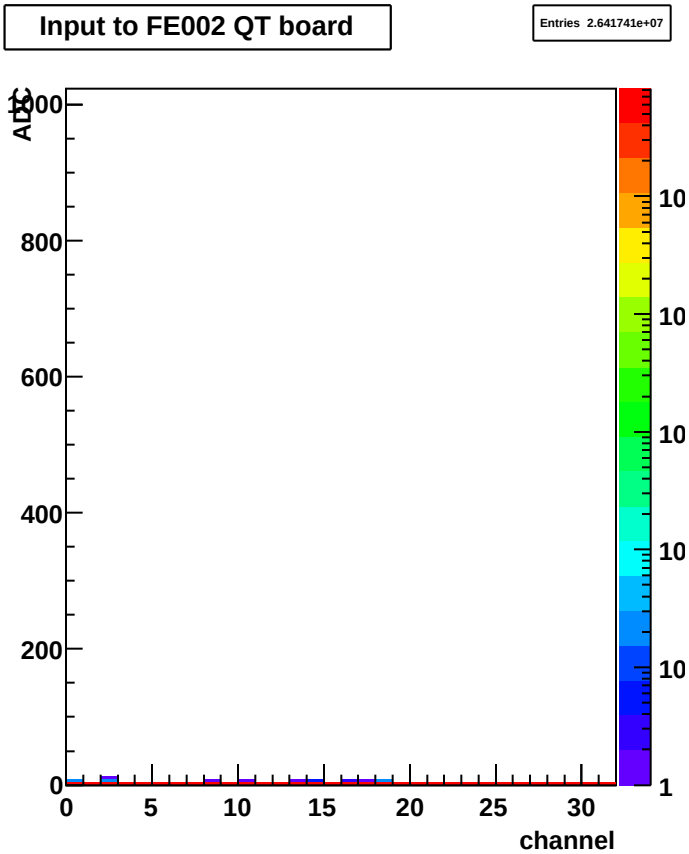

Input to FPD L2 DSM
Entries 806
CL bits - simulated
1
7
6
7
28
6
10
8
12
643
78
SMALL
LARGE-S
LARGE-N

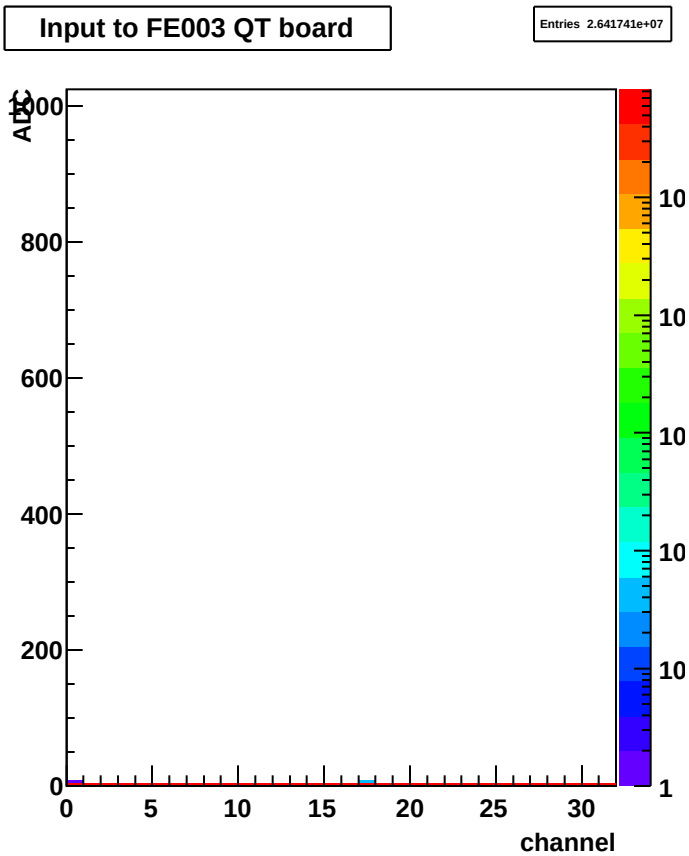

Input to FPD L2 DSM
Entries 2476632
HT bits
11520
73986
38899
20391
49876
31672
17859
743757
719886
768786
SMALL
LARGE-S
LARGE-N

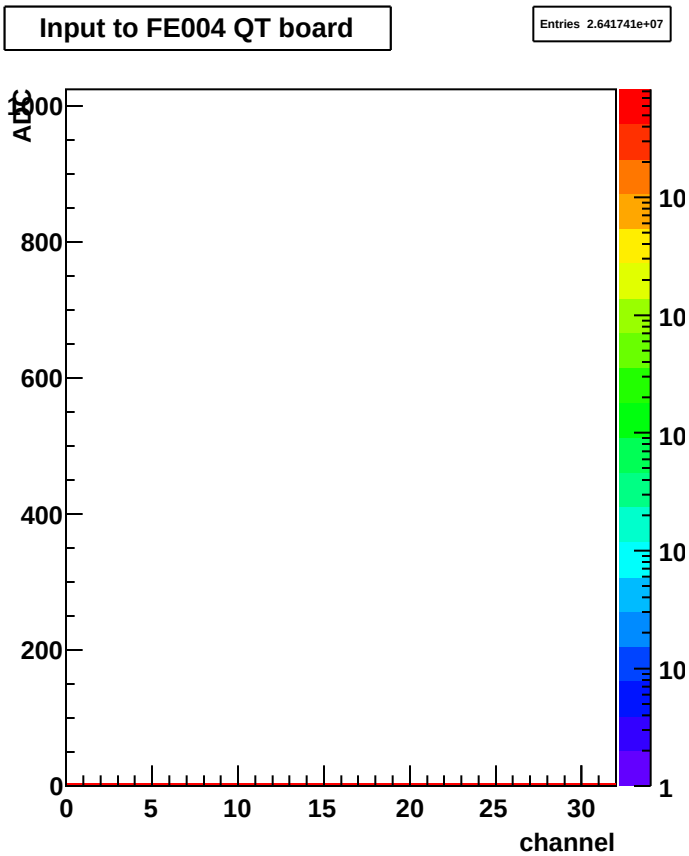

Input to FPD L2 DSM
Entries 524
HT bits - simulated
153
12
3
259
88
5
3
1
SMALL
LARGE-S
LARGE-N

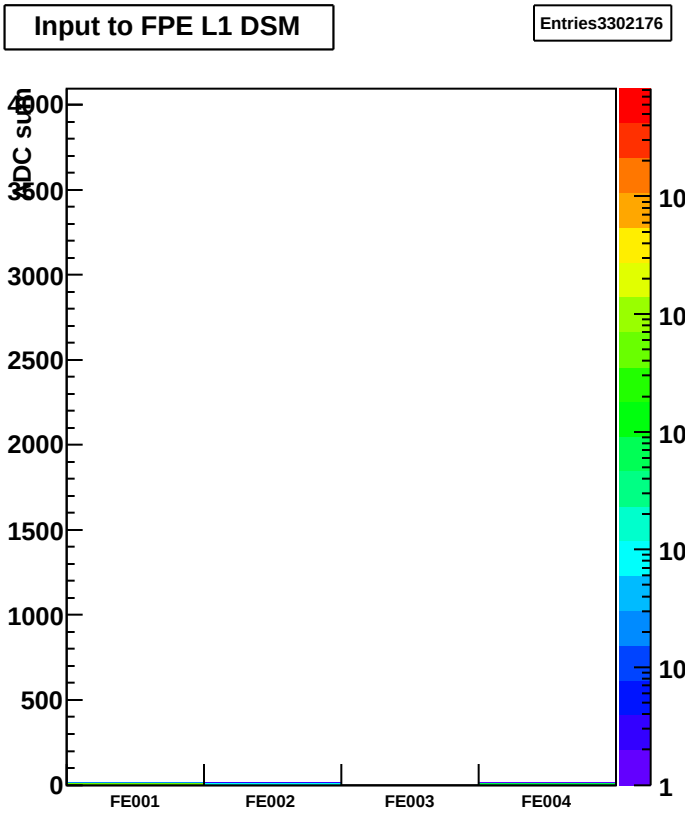

Input to FPD L2 DSM
Entries 4953264
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

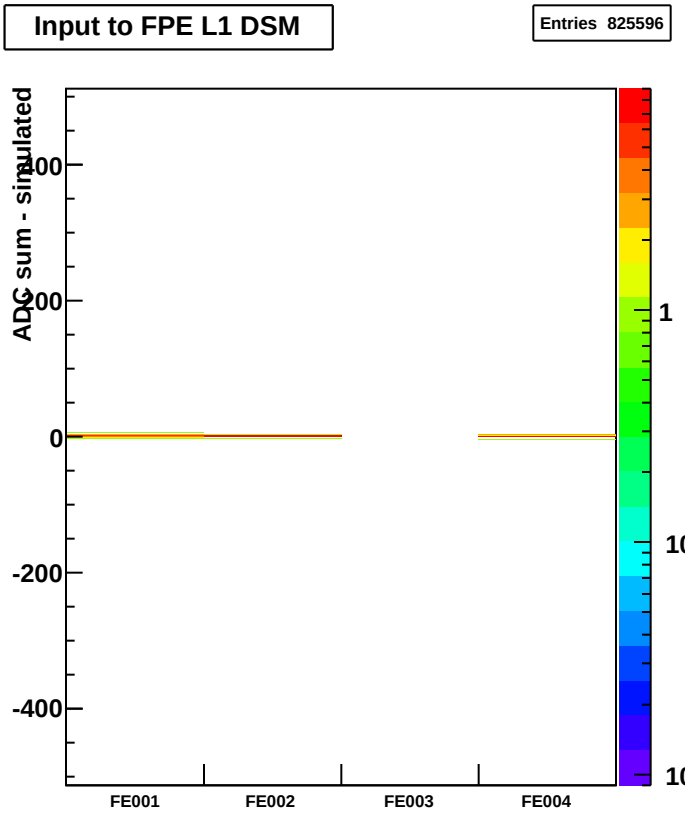

Input to FE001 QT board
Entries 2.641741e+07
ADC
channel

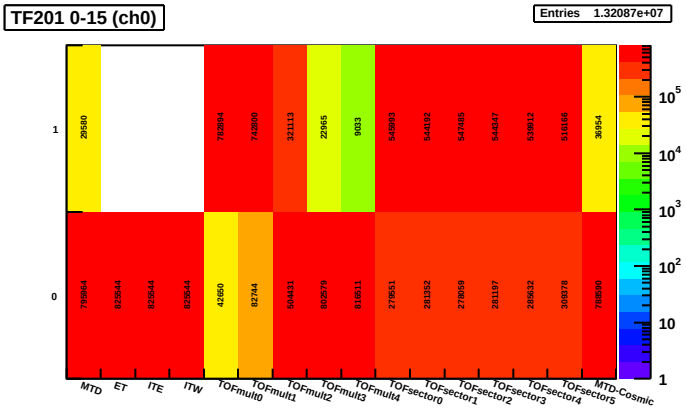

Input to FE002 QT board
Entries 2.641741e+07
ADC
channel

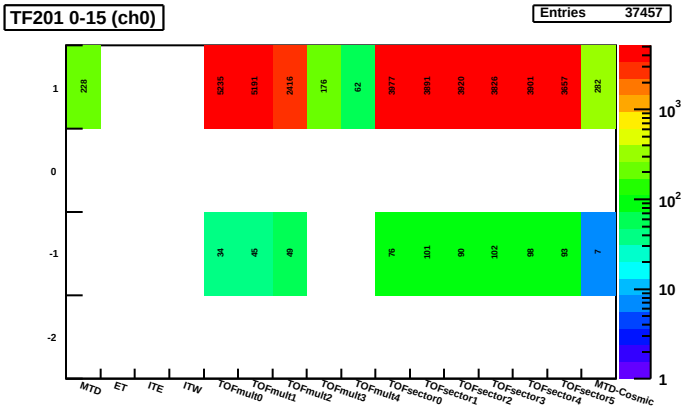

Input to FE003 QT board
Entries 2.641741e+07
ADC
channel

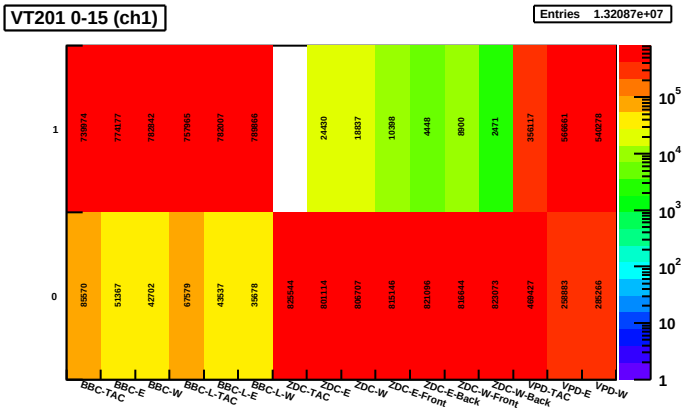

Input to FE004 QT board
Entries 2.641741e+07
ADC
channel


Input to FPE L1 DSM
Entries3302176
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries 825596
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
1


TF201 0-15 (ch0)
Entries 1.32087e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 37457
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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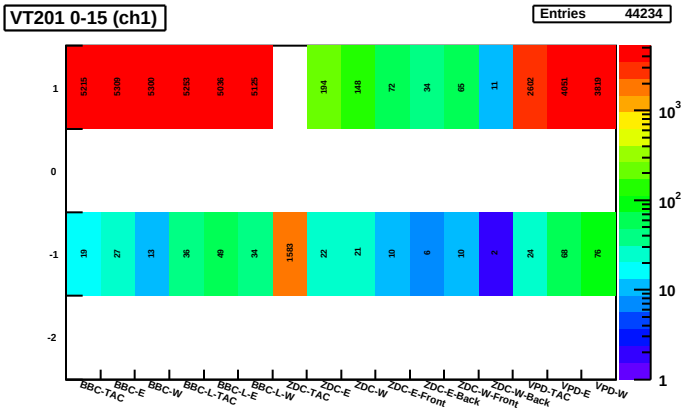
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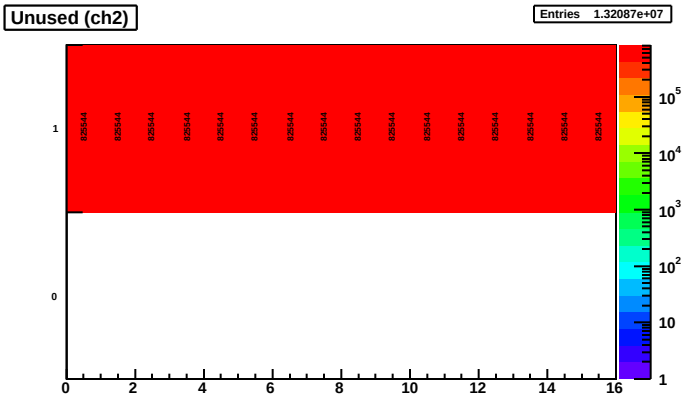
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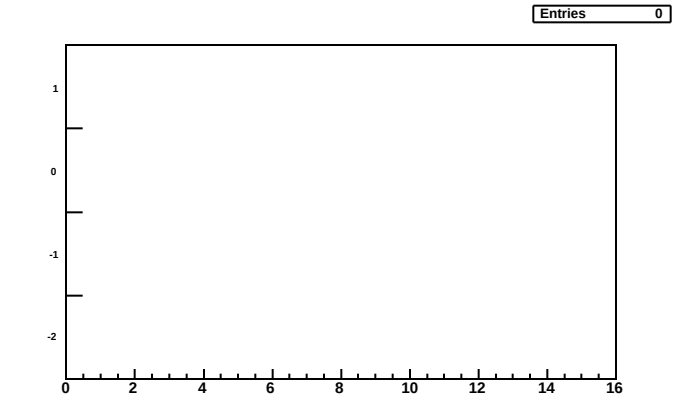
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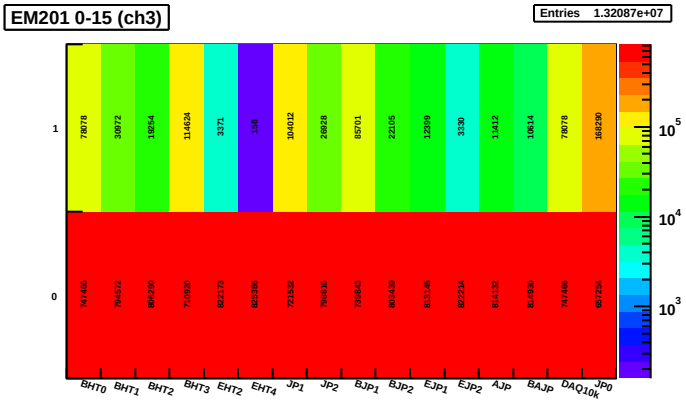
EM201 0-15 (ch3)
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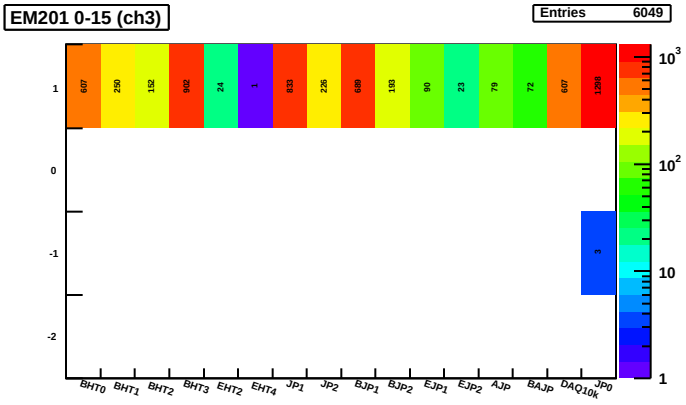
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Entries 6049
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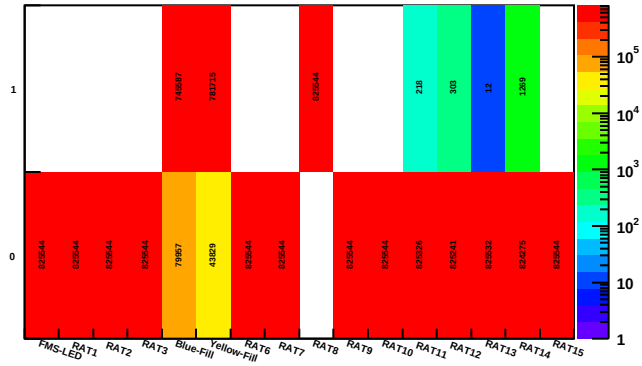
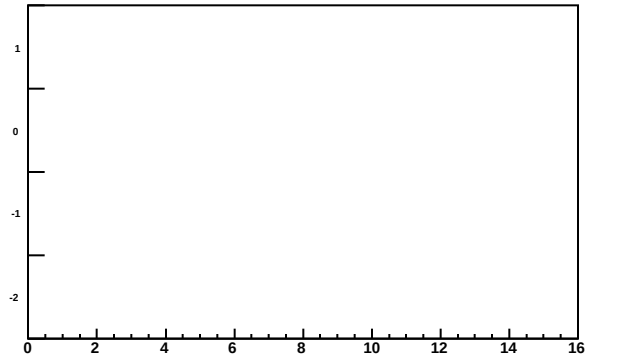
RAT board (ch4)





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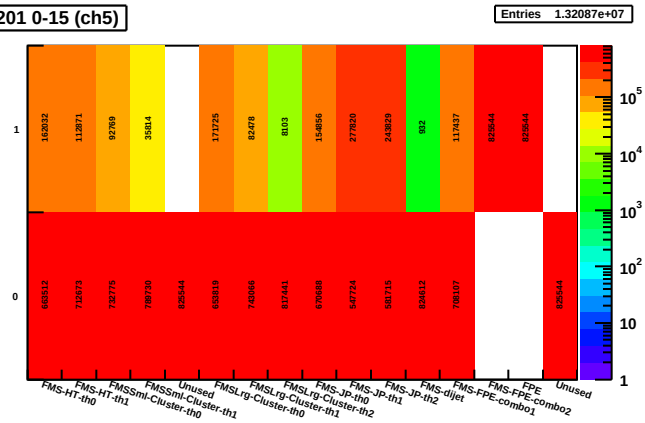

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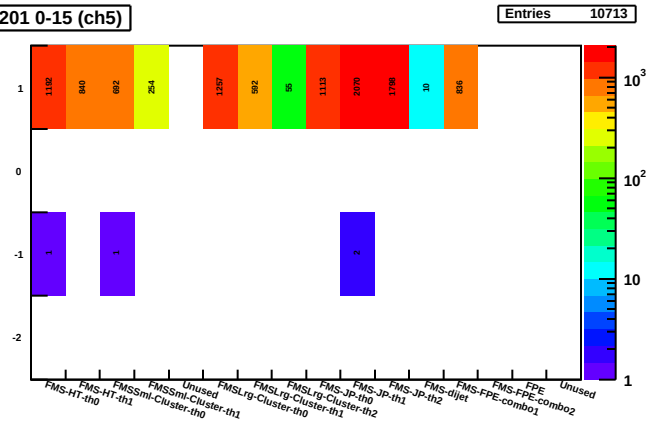
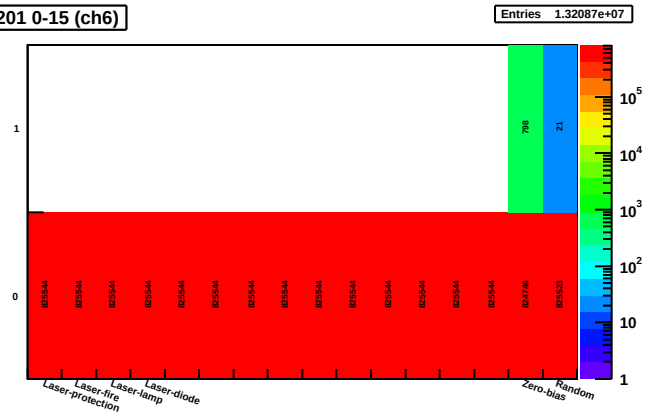
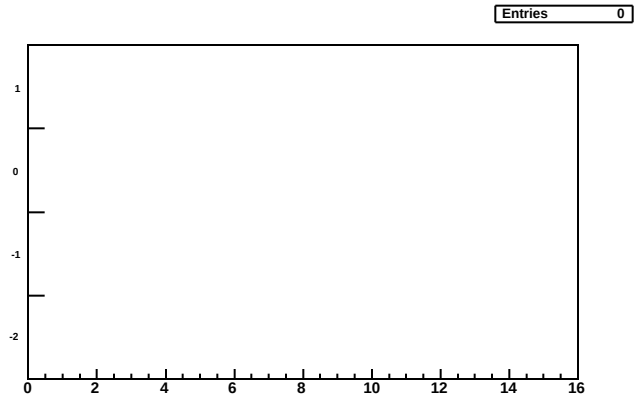
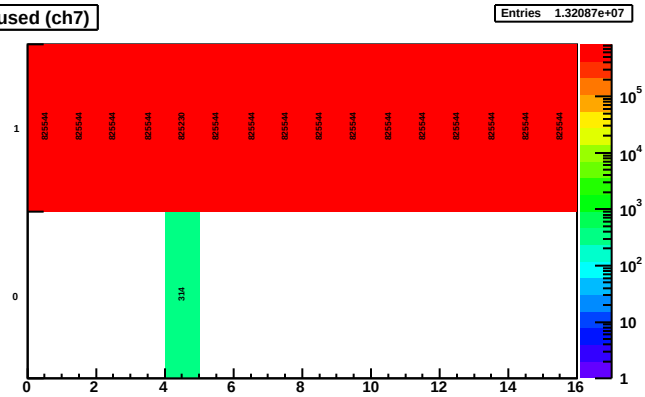
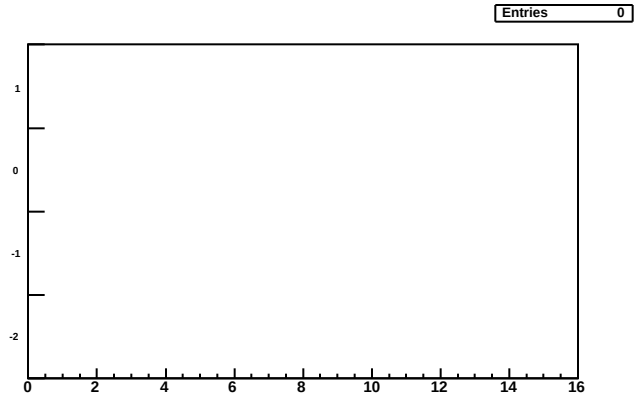


ST201 0-15 (ch6)





Unused (ch7)