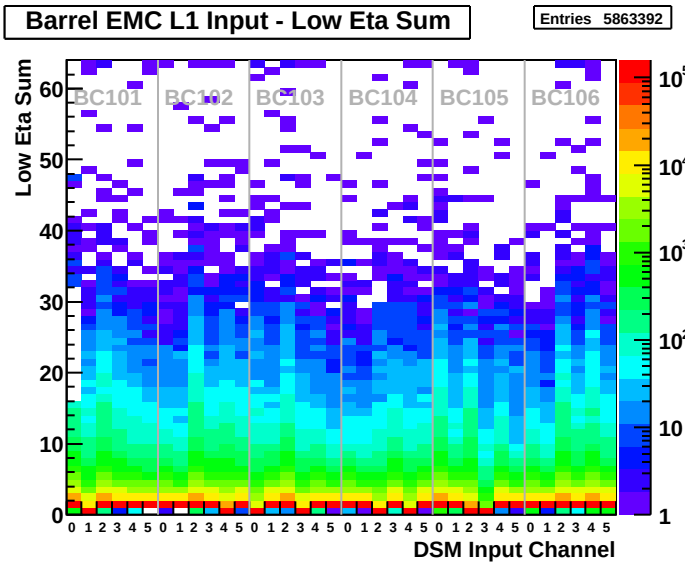
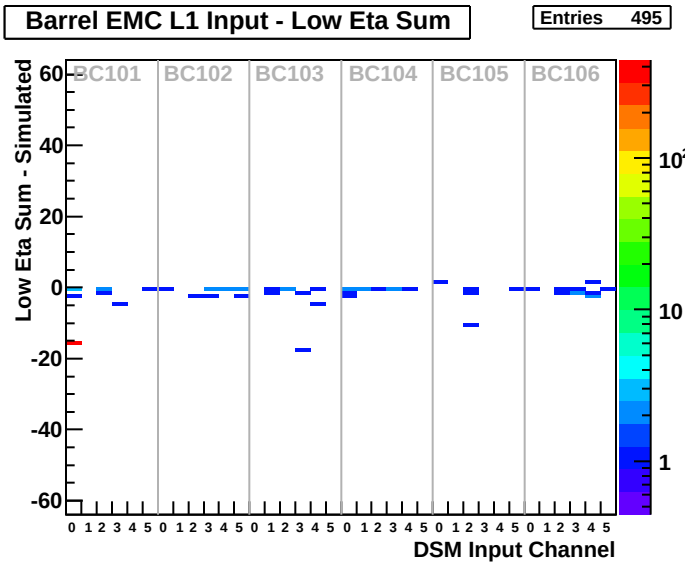
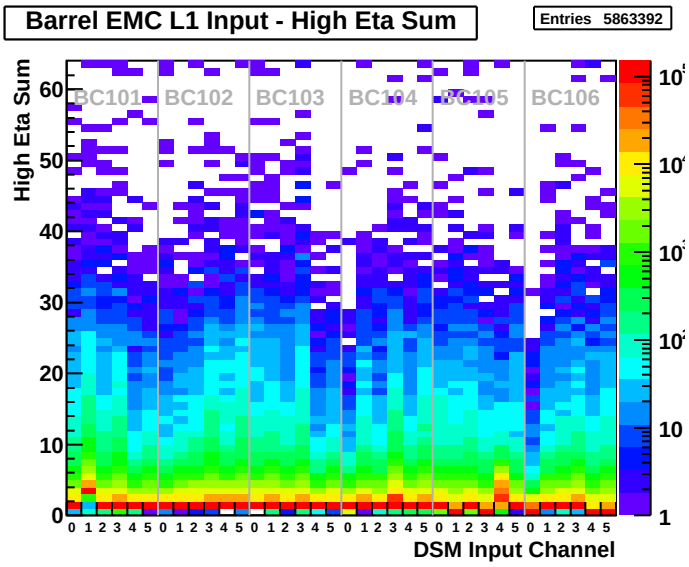
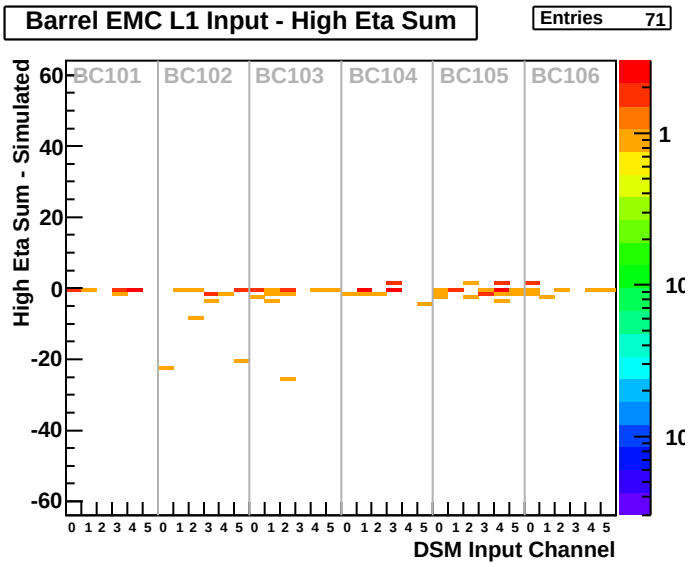
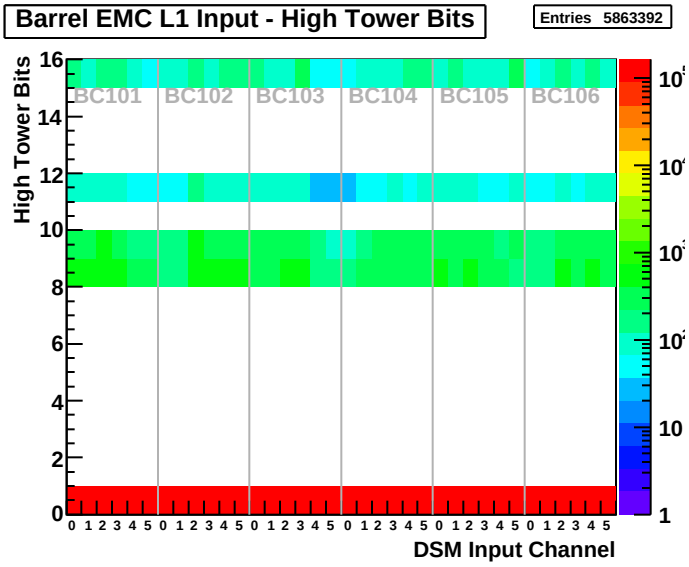
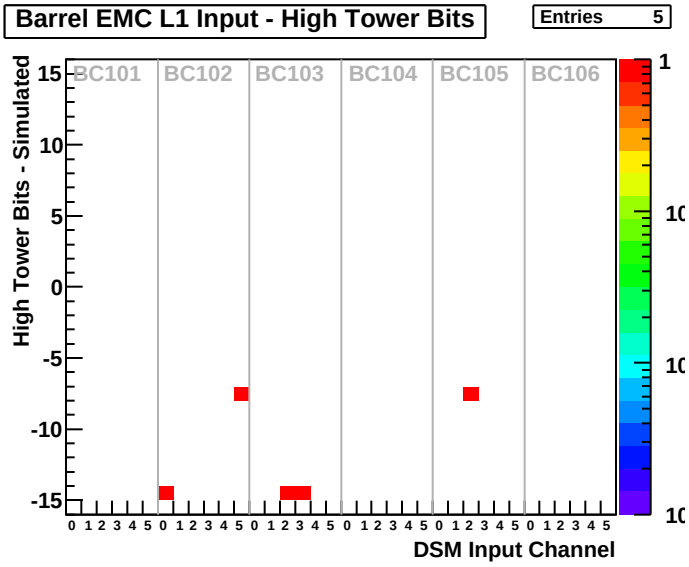

Barrel EMC L1 Input - Low Eta Sum
Entries 5863392
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

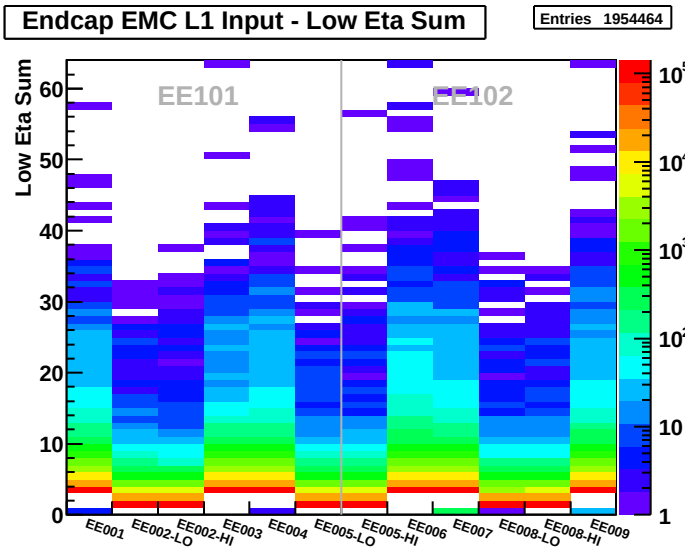

Barrel EMC L1 Input - Low Eta Sum
Entries 495
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

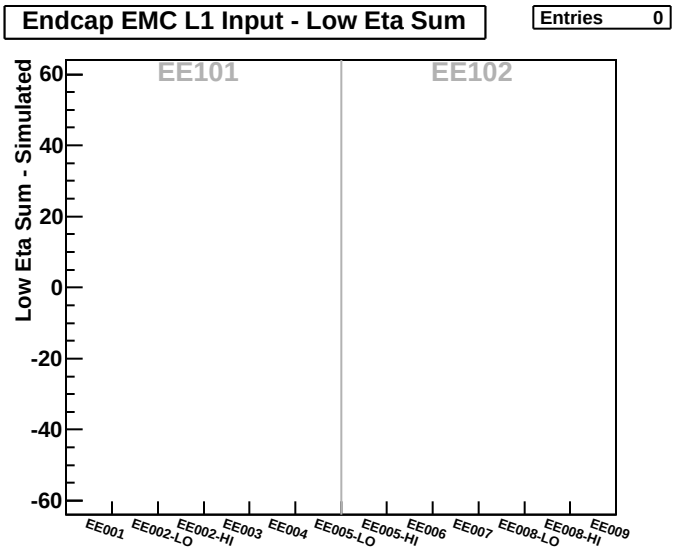

Barrel EMC L1 Input - High Eta Sum
Entries 5863392
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

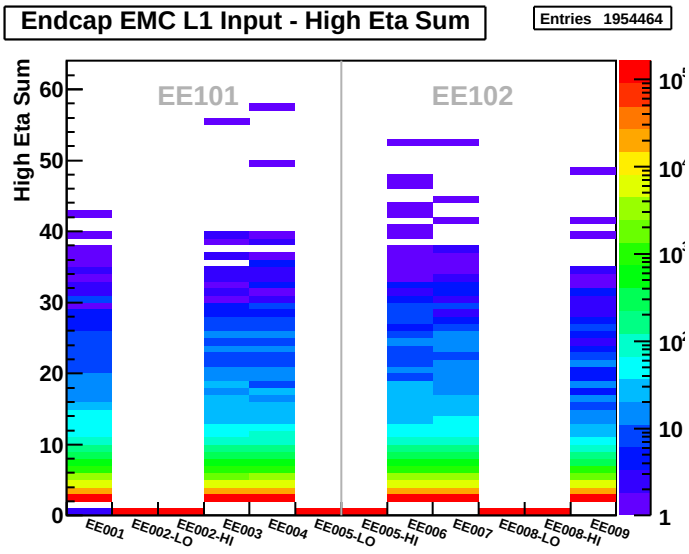

Barrel EMC L1 Input - High Eta Sum
Entries 71
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

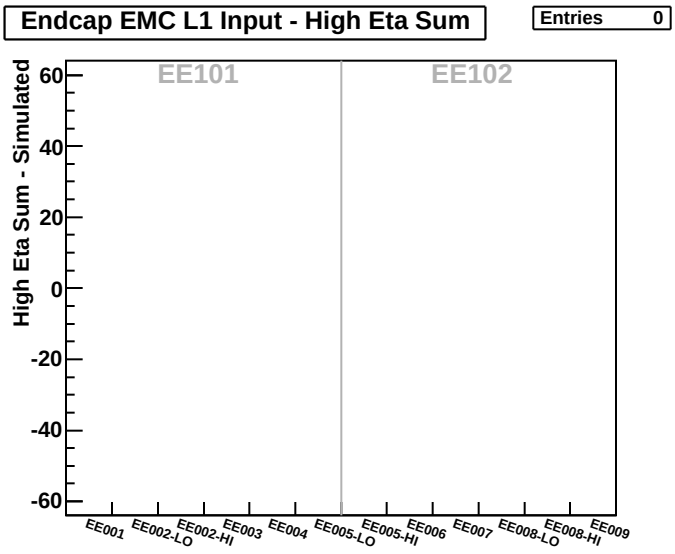

Barrel EMC L1 Input - High Tower Bits
Entries 5863392
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

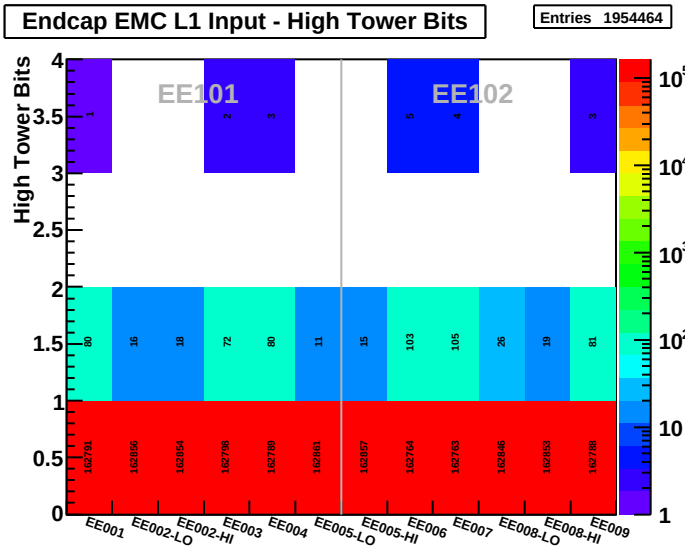

Barrel EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

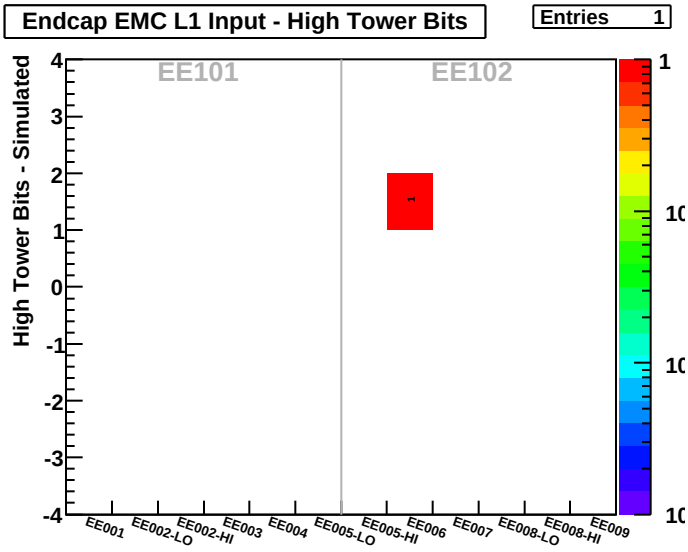

Endcap EMC L1 Input - Low Eta Sum
Entries 1954464
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

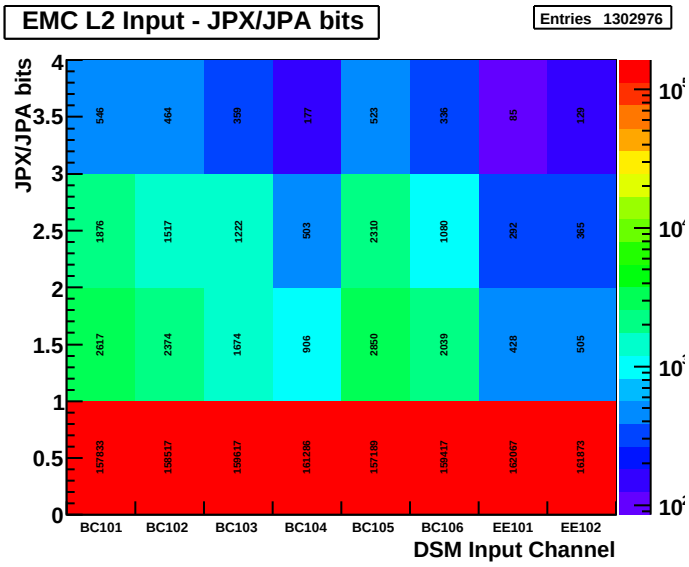

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

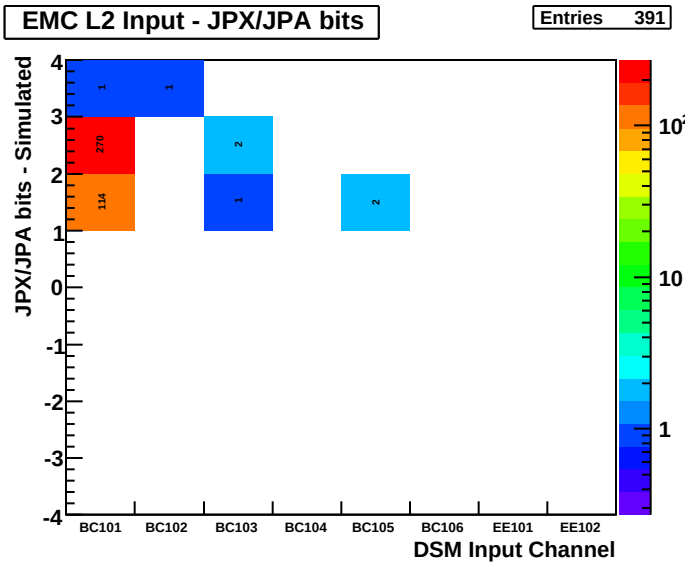

Endcap EMC L1 Input - High Eta Sum
Entries 1954464
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

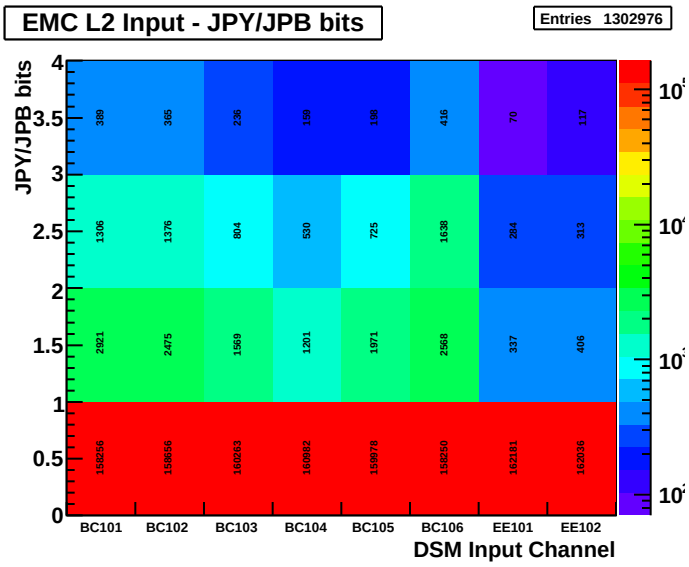

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

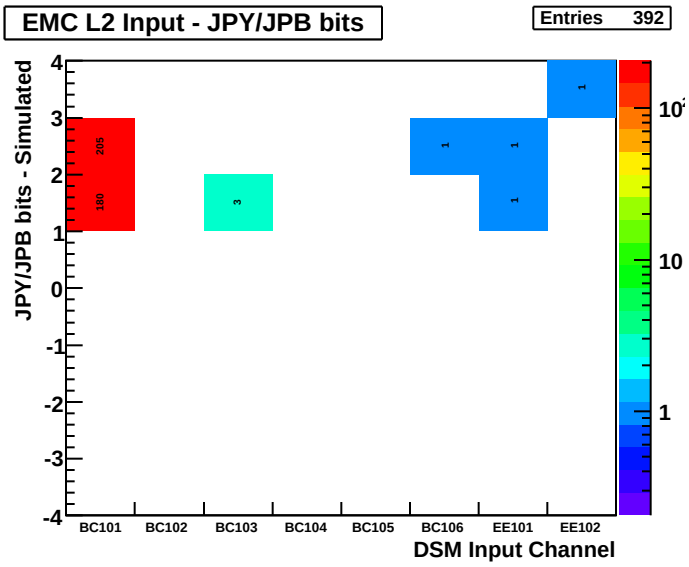

Endcap EMC L1 Input - High Tower Bits
Entries 1954464
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

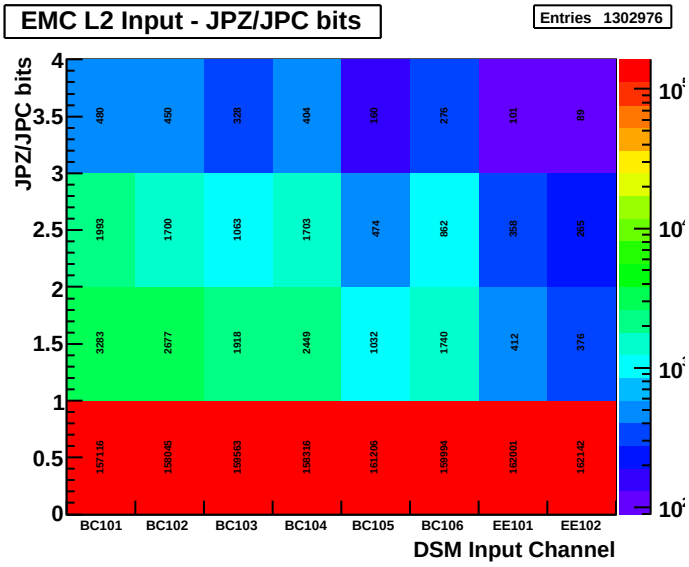

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

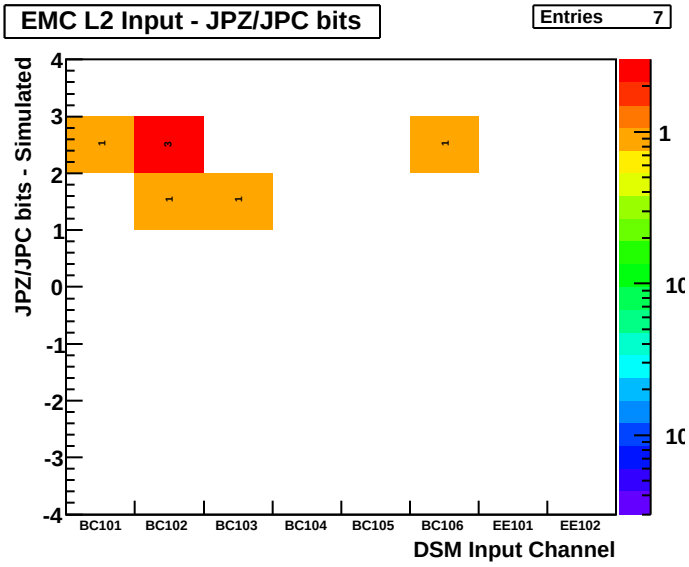

EMC L2 Input - JPX/JPA bits
Entries 1302976
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
546 464 359 177 523 336 85 129
1876 1517 1222 503 2310 1080 282 365
2617 2374 1674 906 2850 2039 428 505
157833 158517 159617 161286 157189 159417 162067 161873

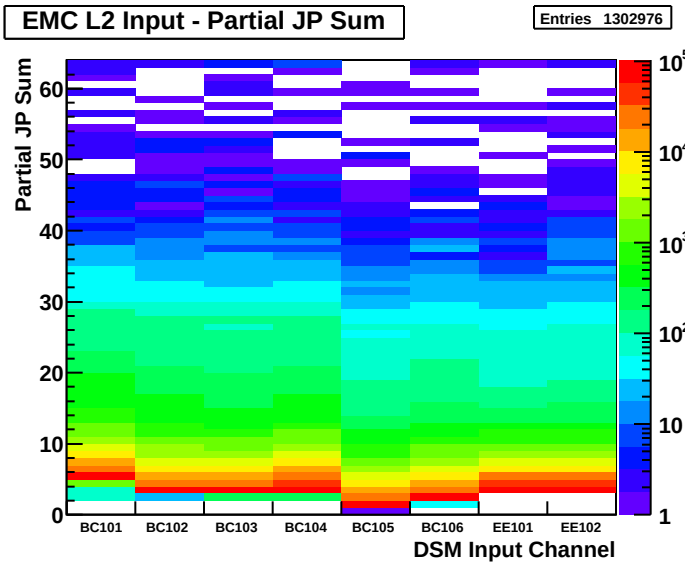

EMC L2 Input - JPX/JPA bits
Entries 391
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1
270 2
114 1 2

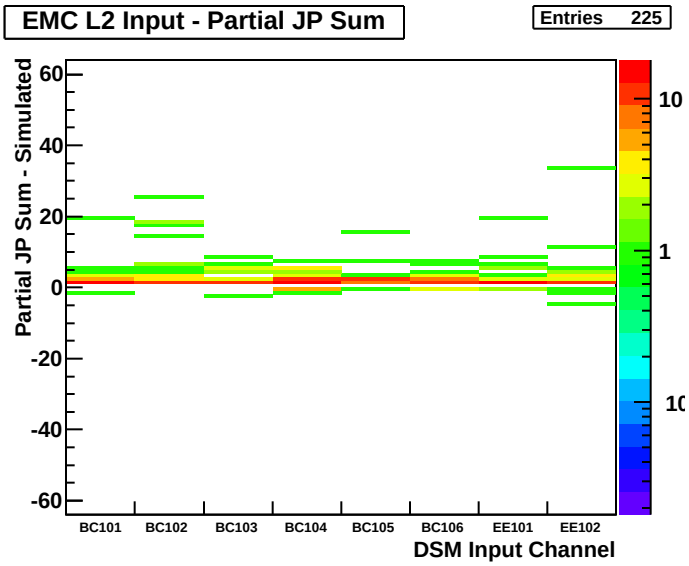

EMC L2 Input - JPY/JPB bits
Entries 1302976
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
389 365 236 159 198 416 70 117
1306 1376 804 530 725 1638 284 313
2921 2475 1569 1201 1971 2568 337 406
158256 158656 160263 160982 159978 159250 162181 162036

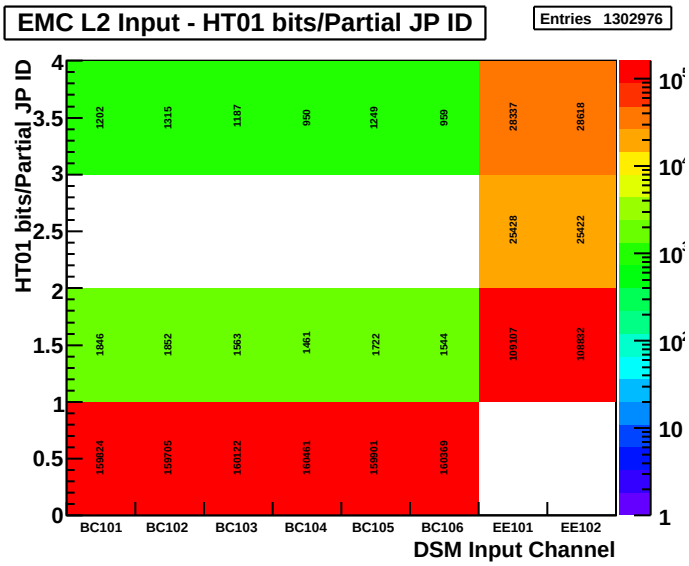

EMC L2 Input - JPY/JPB bits
Entries 392
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
205 1 1
180 3 1

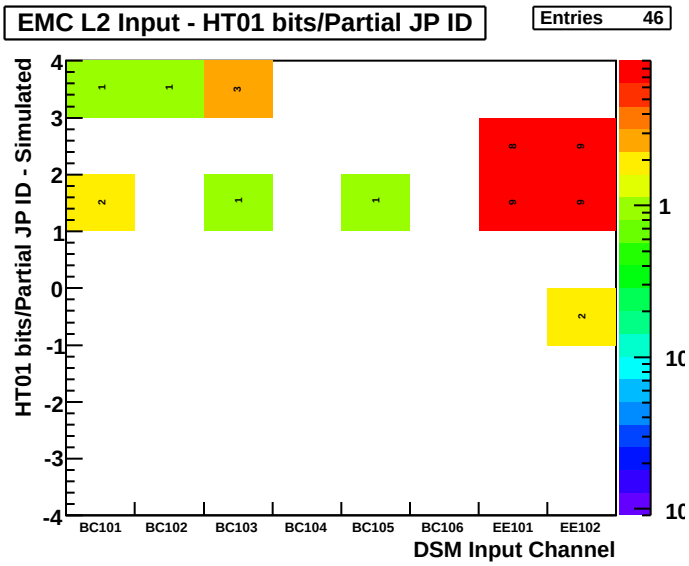

EMC L2 Input - JPZ/JPC bits
Entries 1302976
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
480 450 328 404 160 276 101 89
1993 1700 1063 1703 474 862 358 255
3283 2677 1918 2449 1032 1740 412 376
157116 158045 159563 158316 161206 159994 162001 162142

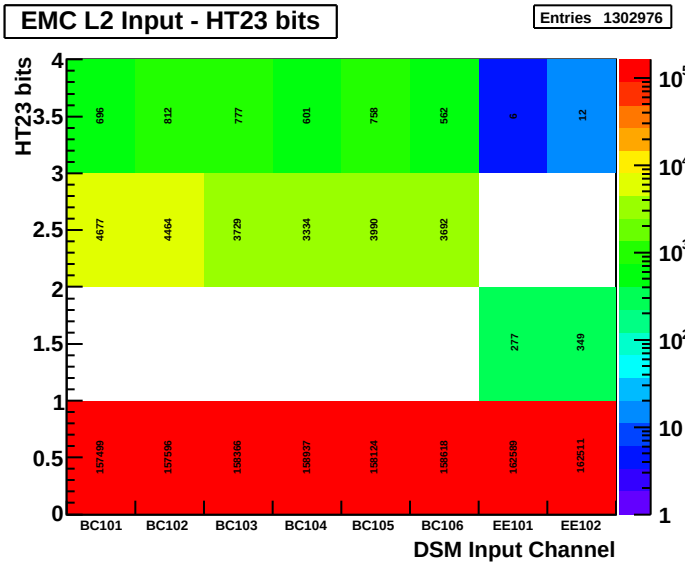

EMC L2 Input - JPZ/JPC bits
Entries 7
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 3 1
1 1

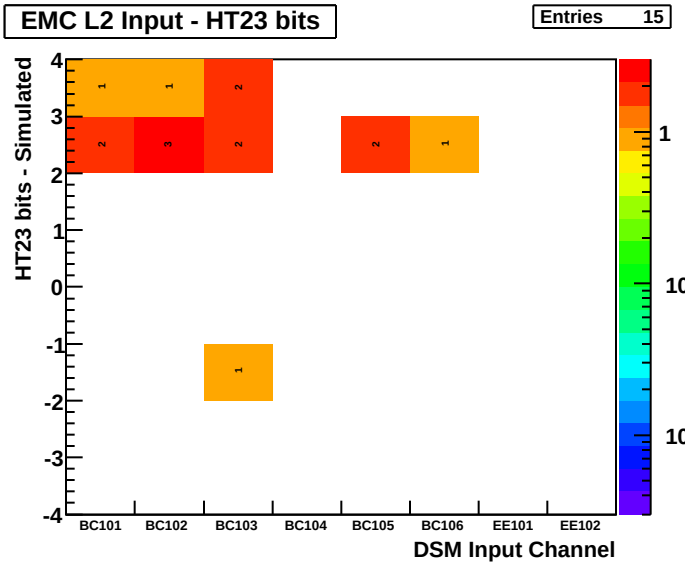

EMC L2 Input - Partial JP Sum
Entries 1302976
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

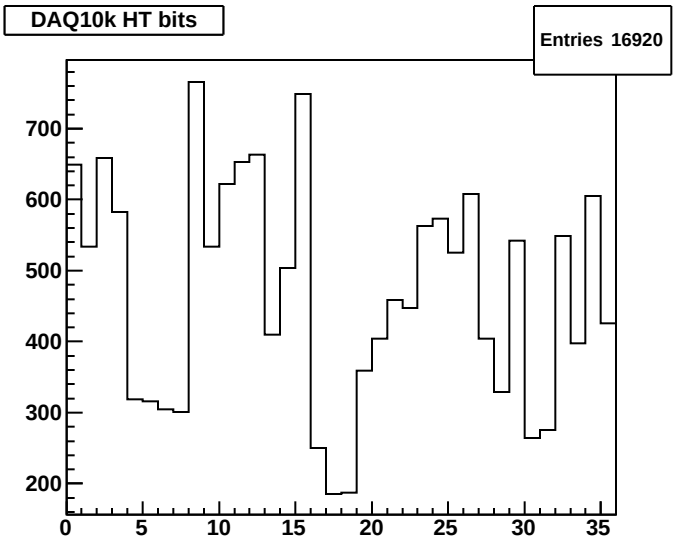

EMC L2 Input - Partial JP Sum
Entries 225
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

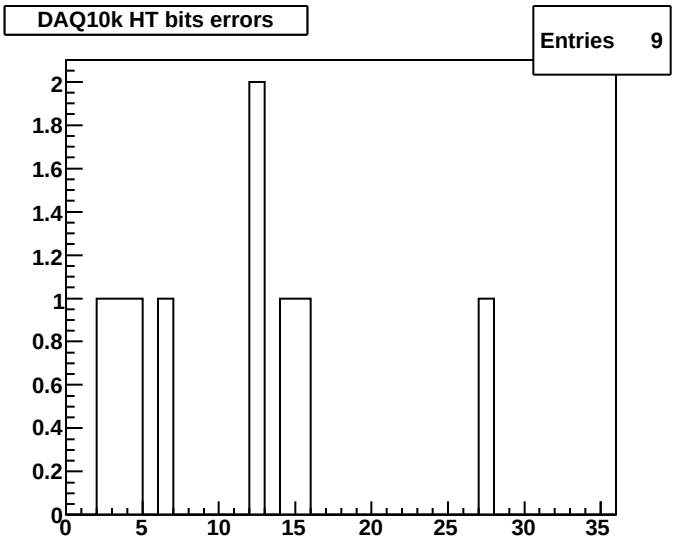

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1302976
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

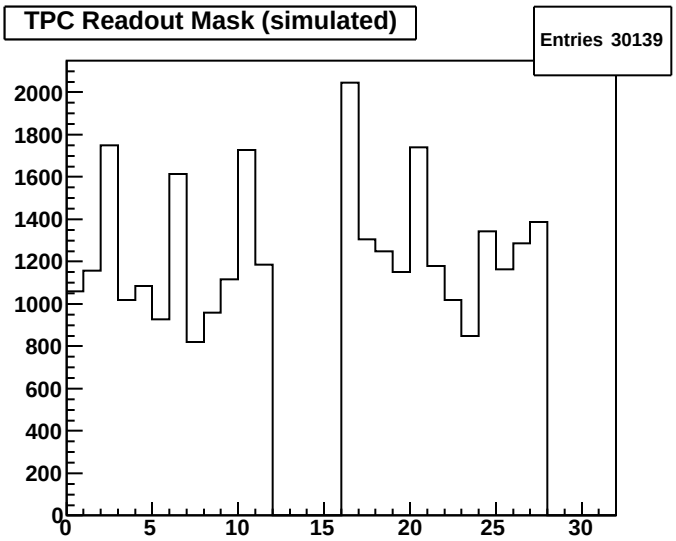

EMC L2 Input - HT01 bits/Partial JP ID
Entries 46
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

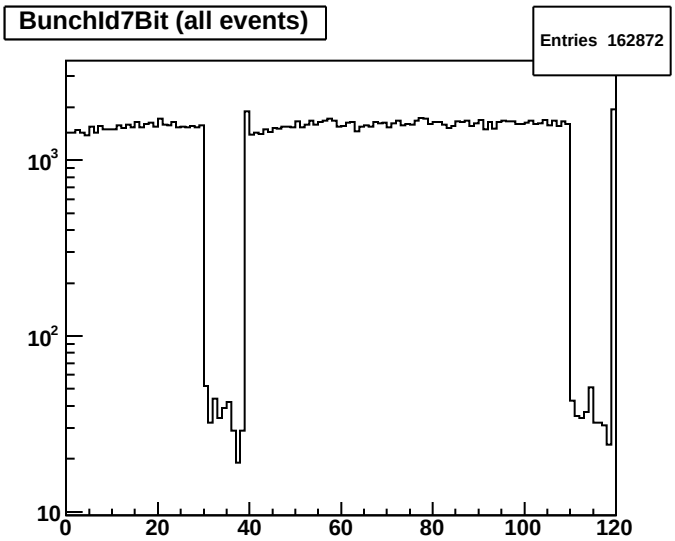

EMC L2 Input - HT23 bits
Entries 1302976
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

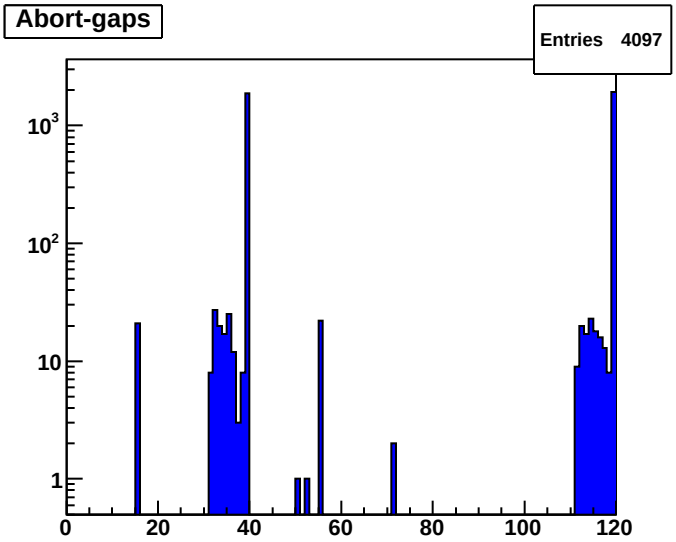

EMC L2 Input - HT23 bits
Entries 15
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

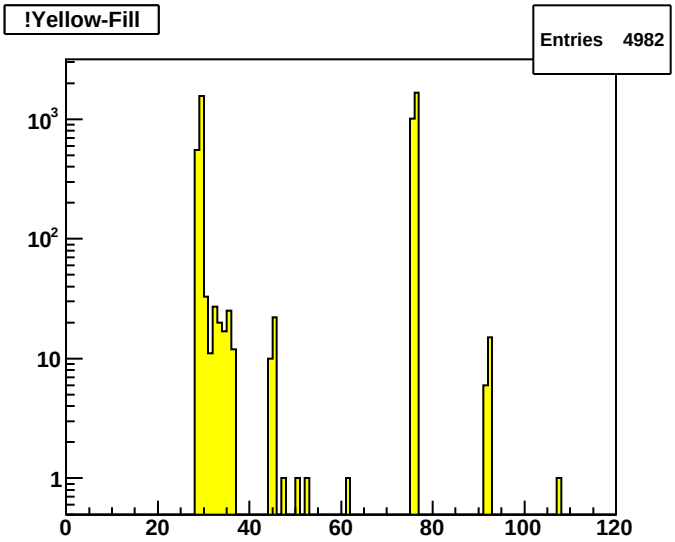

DAQ10k HT bits
Entries 16920

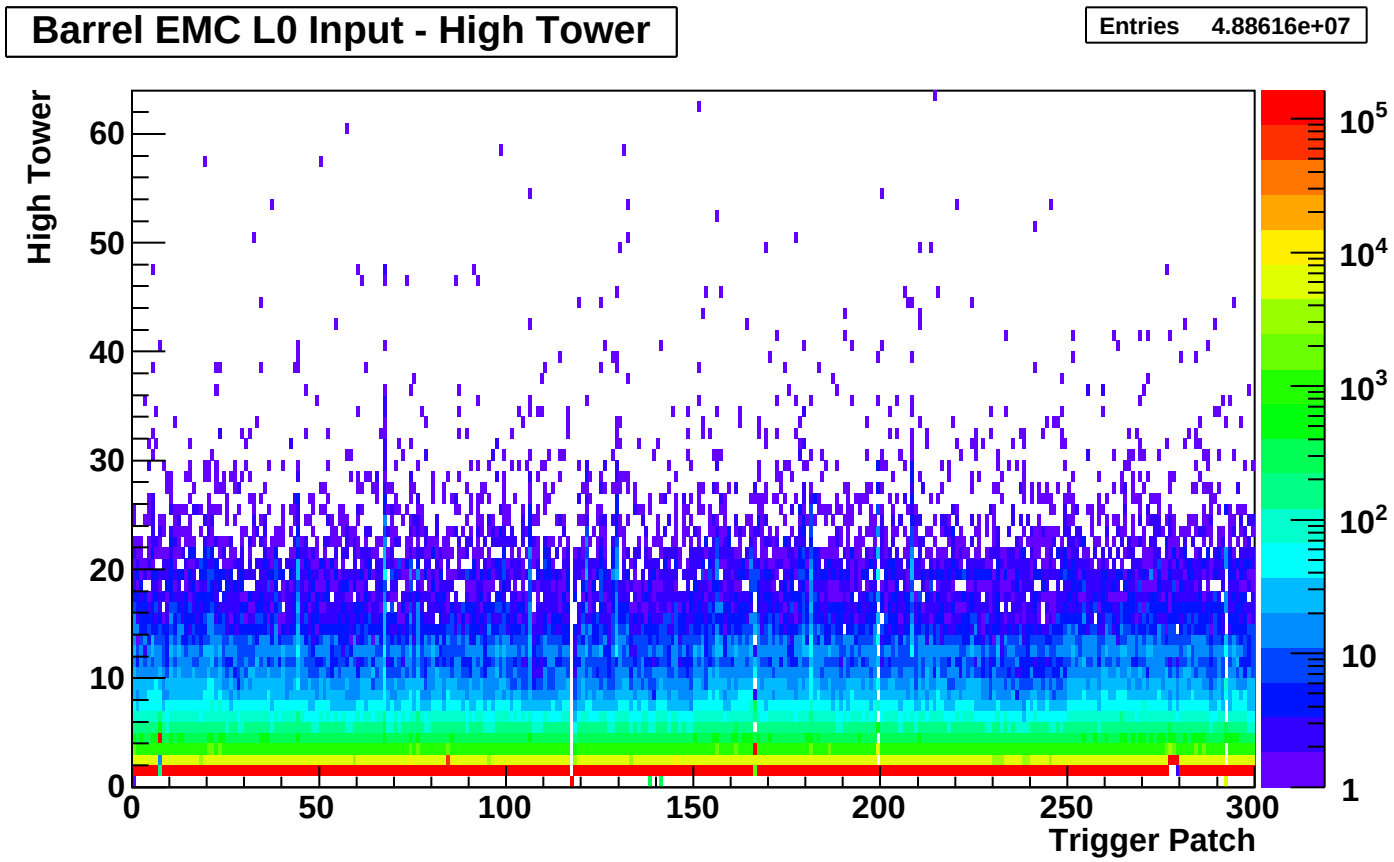

DAQ10k HT bits errors
Entries 9

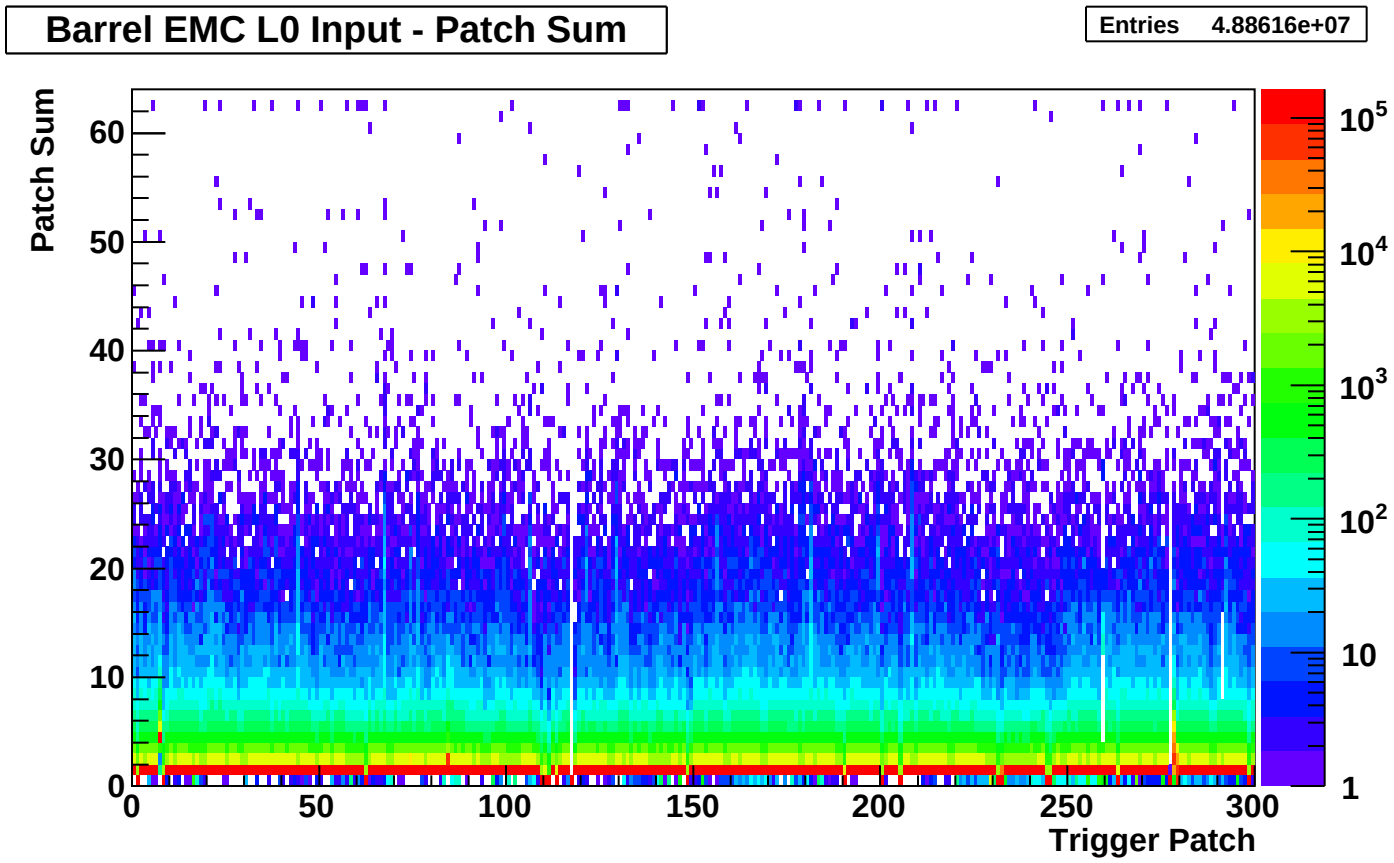

TPC Readout Mask (simulated)
Entries 30139

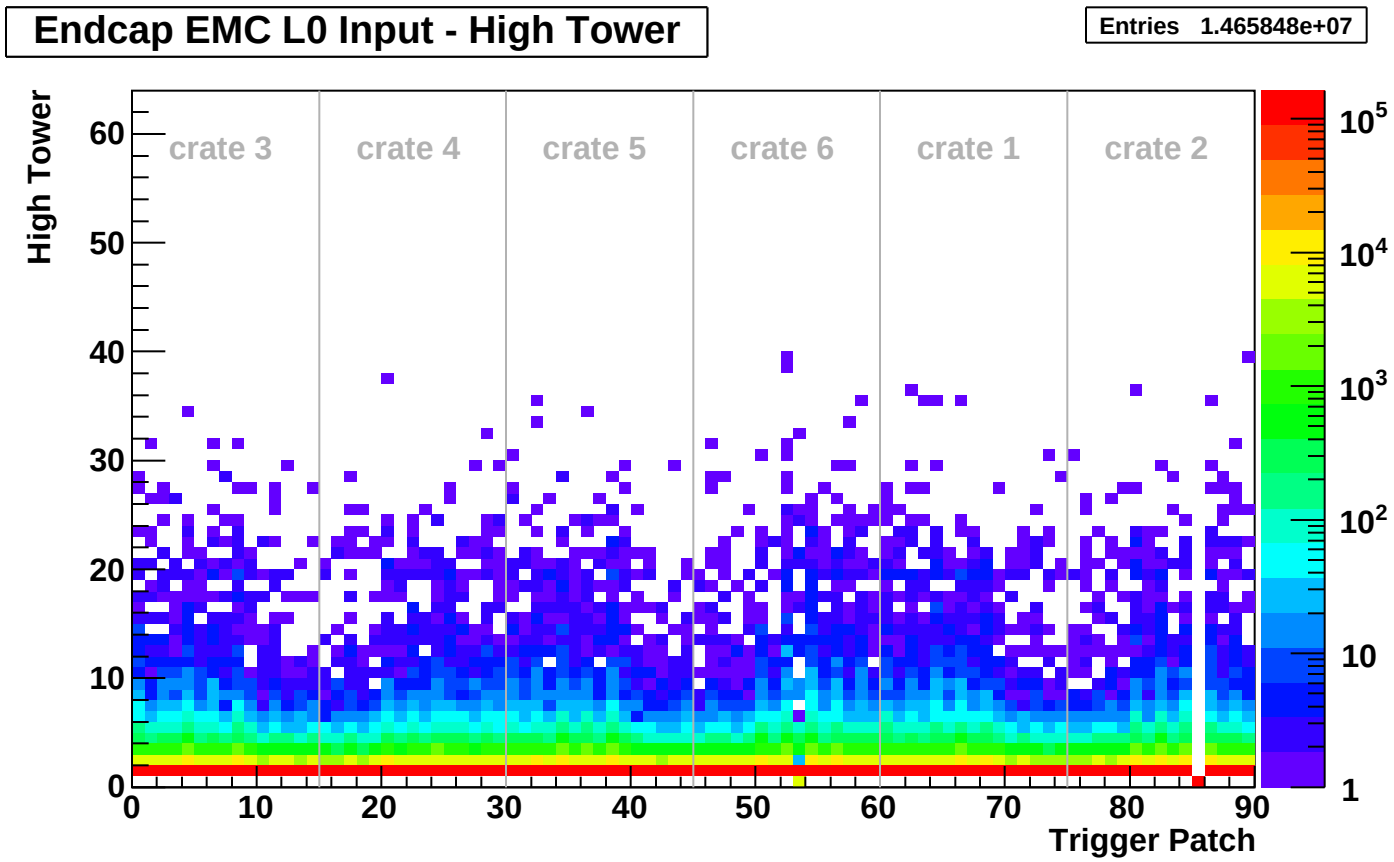

BunchId7Bit (all events)
Entries 162872

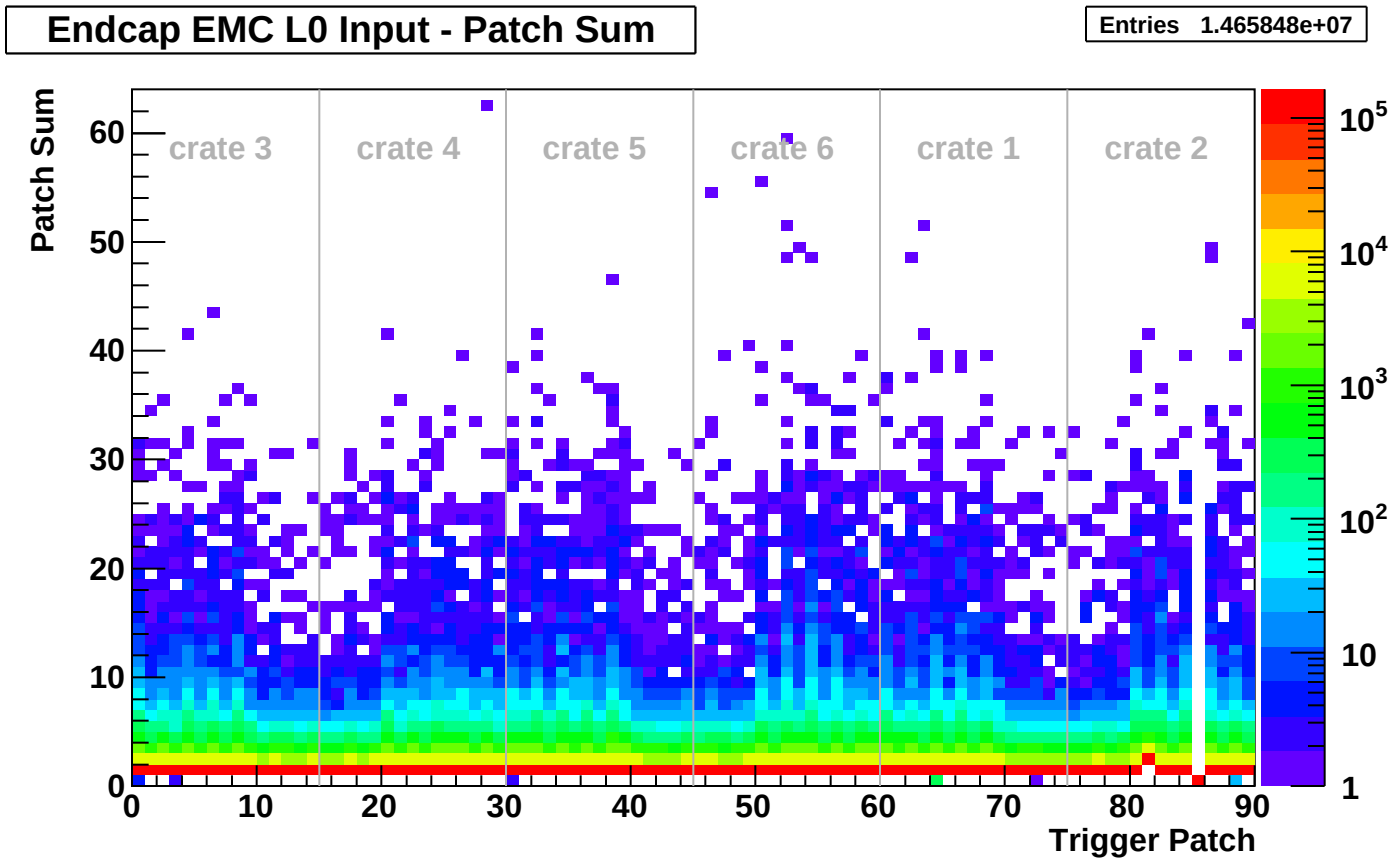

Abort-gaps
Entries 4097

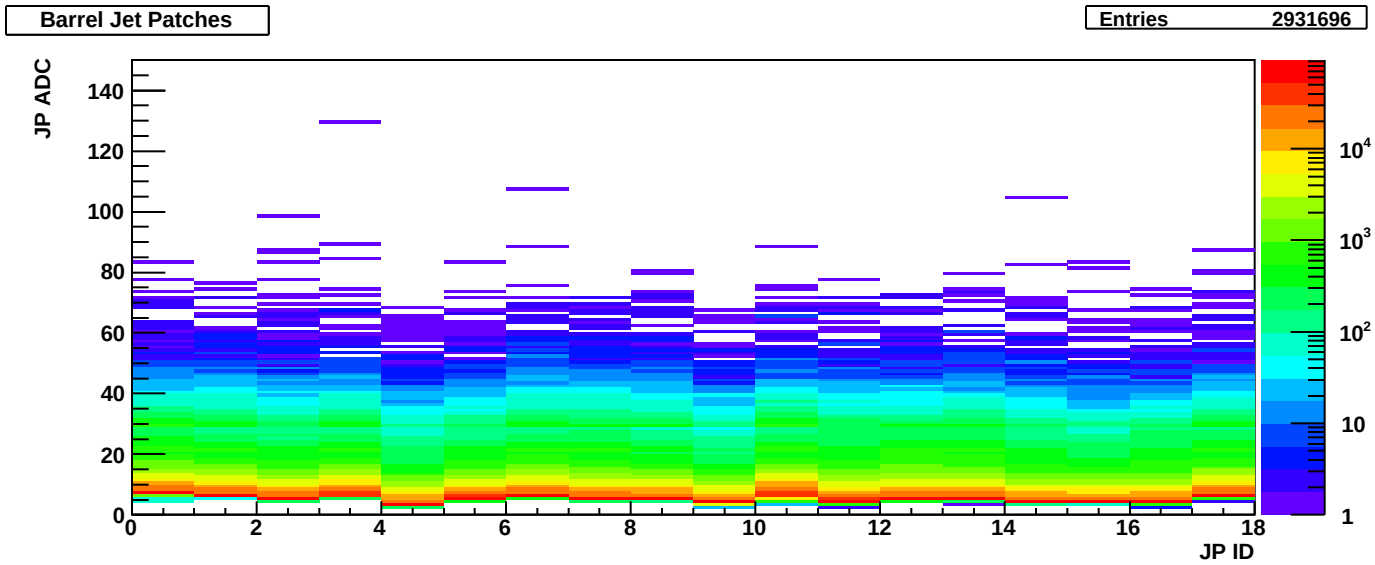

!Yellow-Fill
Entries 4982

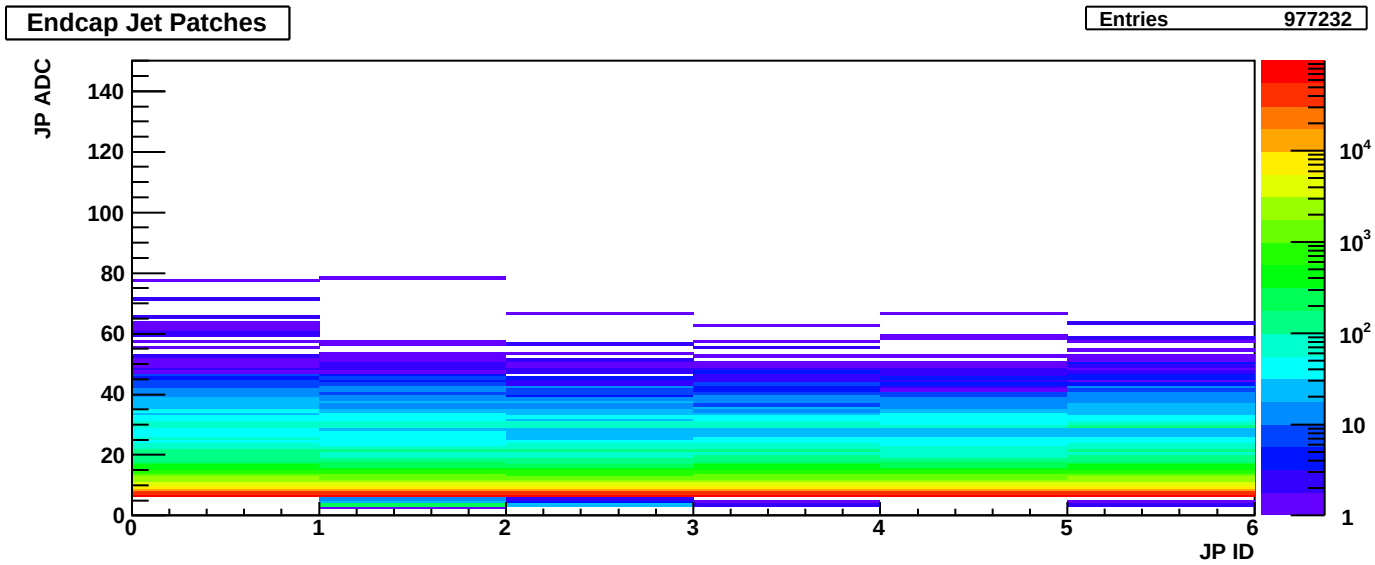

Barrel EMC L0 Input - High Tower
Entries 4.88616e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

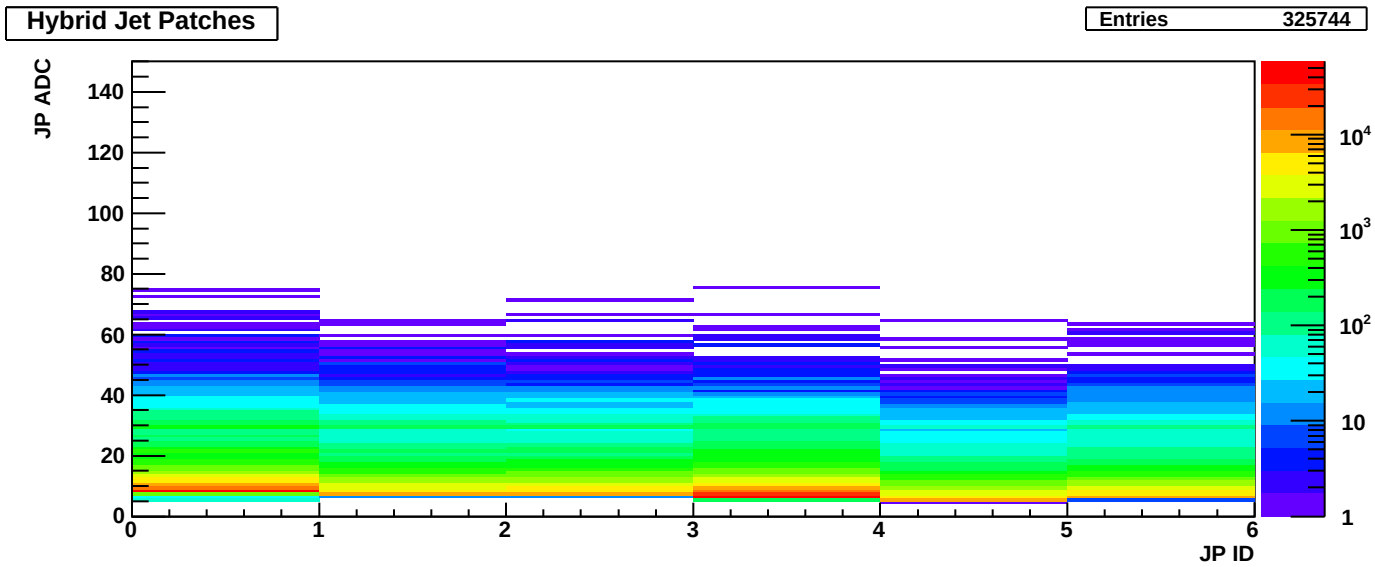

Barrel EMC L0 Input - Patch Sum
Entries 4.88616e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

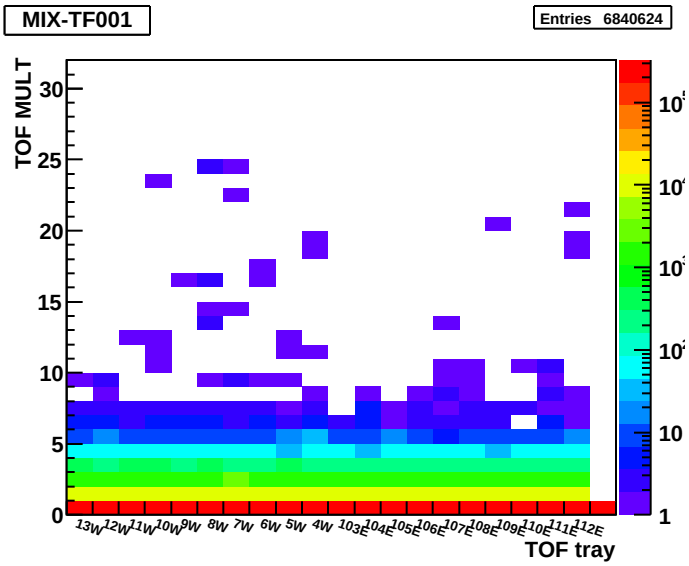

Endcap EMC L0 Input - High Tower
Entries 1.465848e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

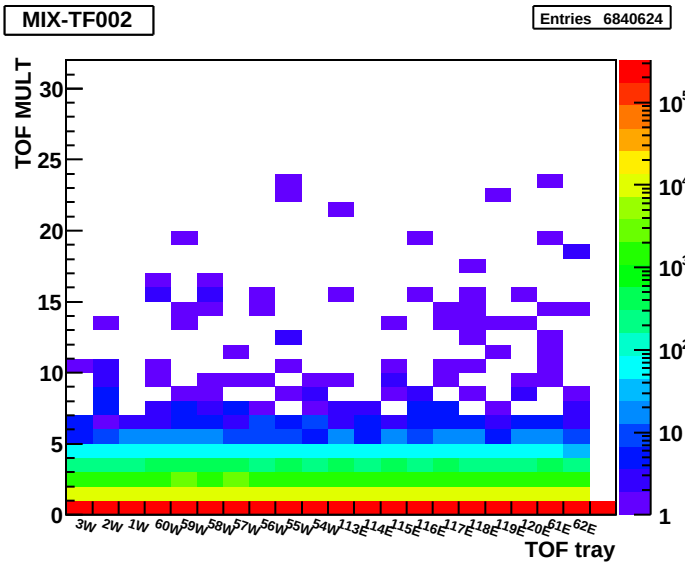

Endcap EMC L0 Input - Patch Sum
Entries 1.465848e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

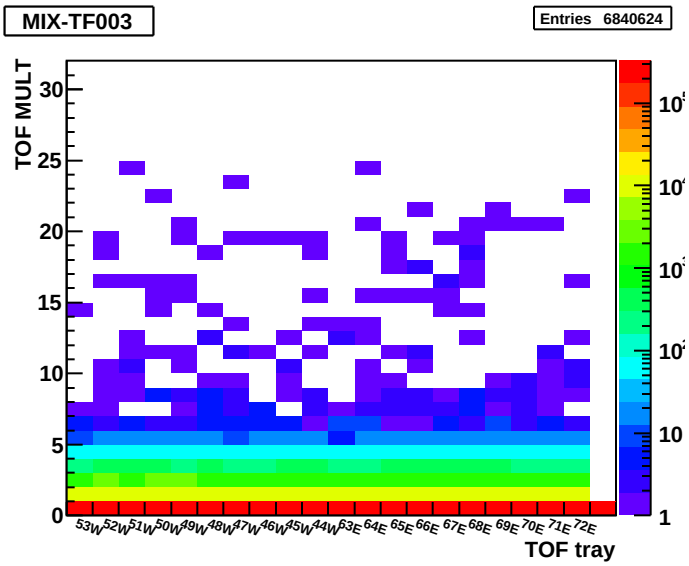

Barrel Jet Patches
Entries 2931696
JP ADC
JP ID

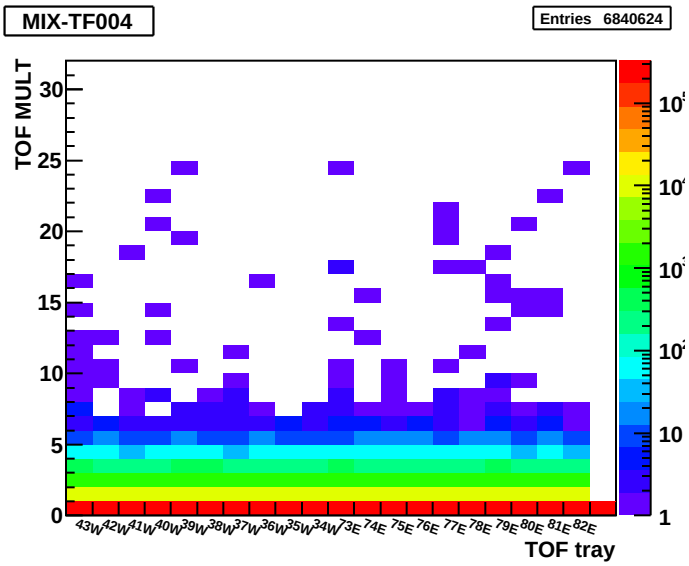

Endcap Jet Patches
Entries 977232
JP ADC
JP ID

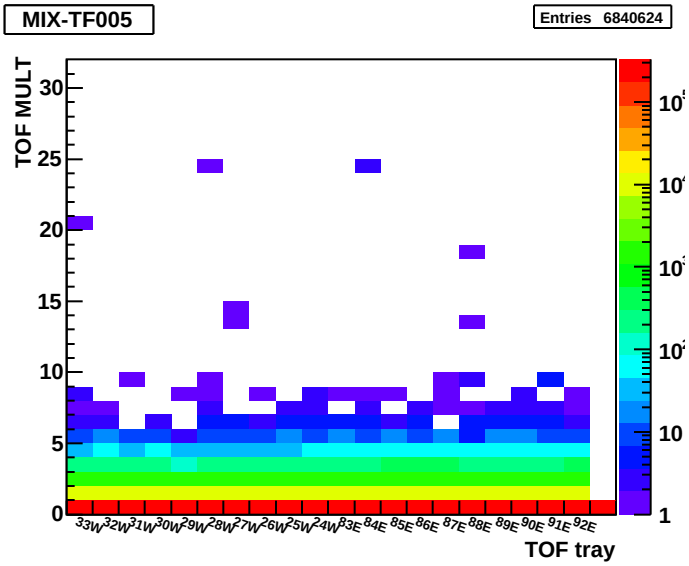

Hybrid Jet Patches
Entries 325744
JP ADC
JP ID

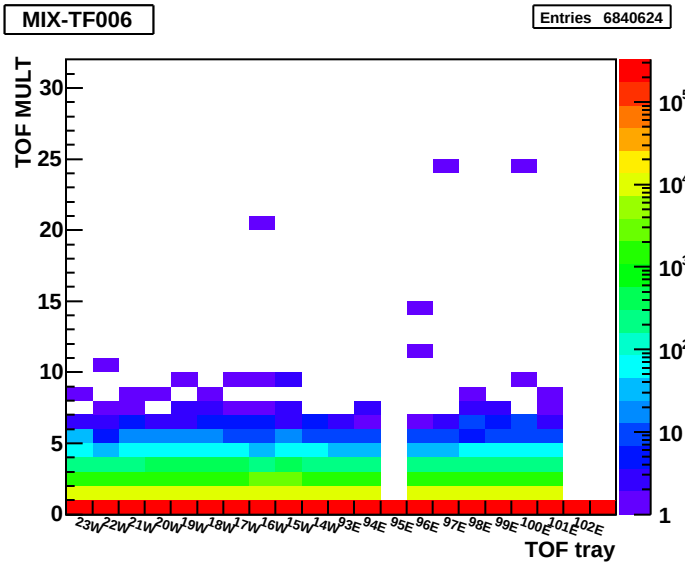

MIX-TF001
Entries 6840624
TOF MULT
TOF tray

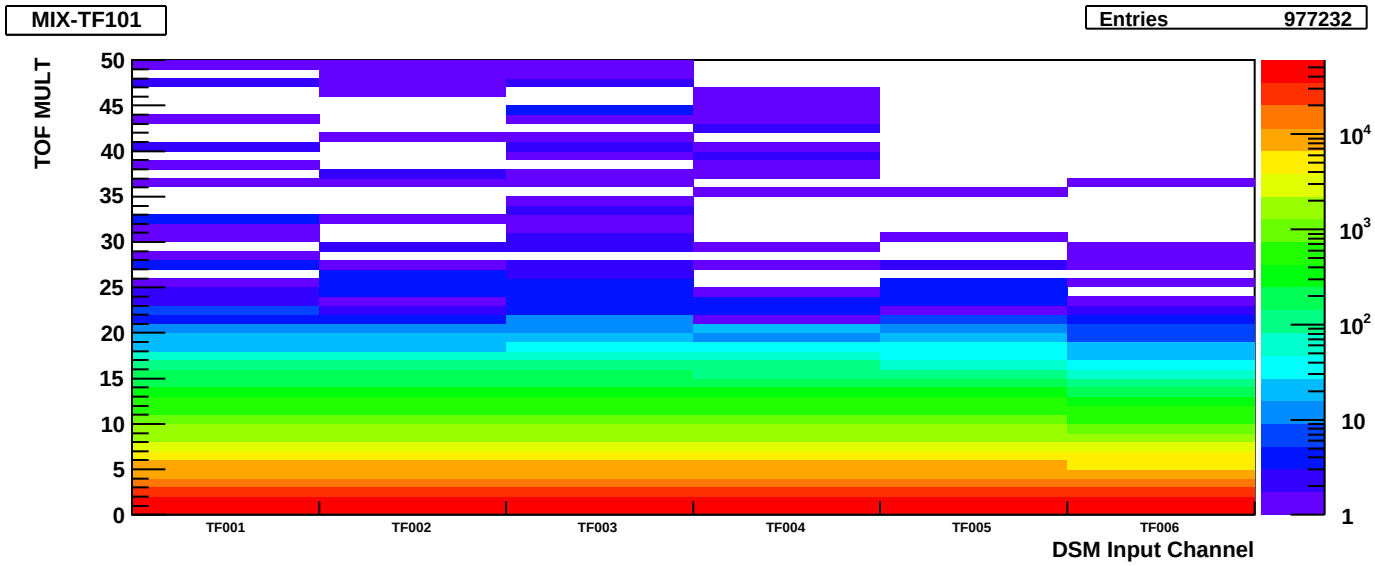

MIX-TF002
Entries 6840624
TOF MULT
TOF tray

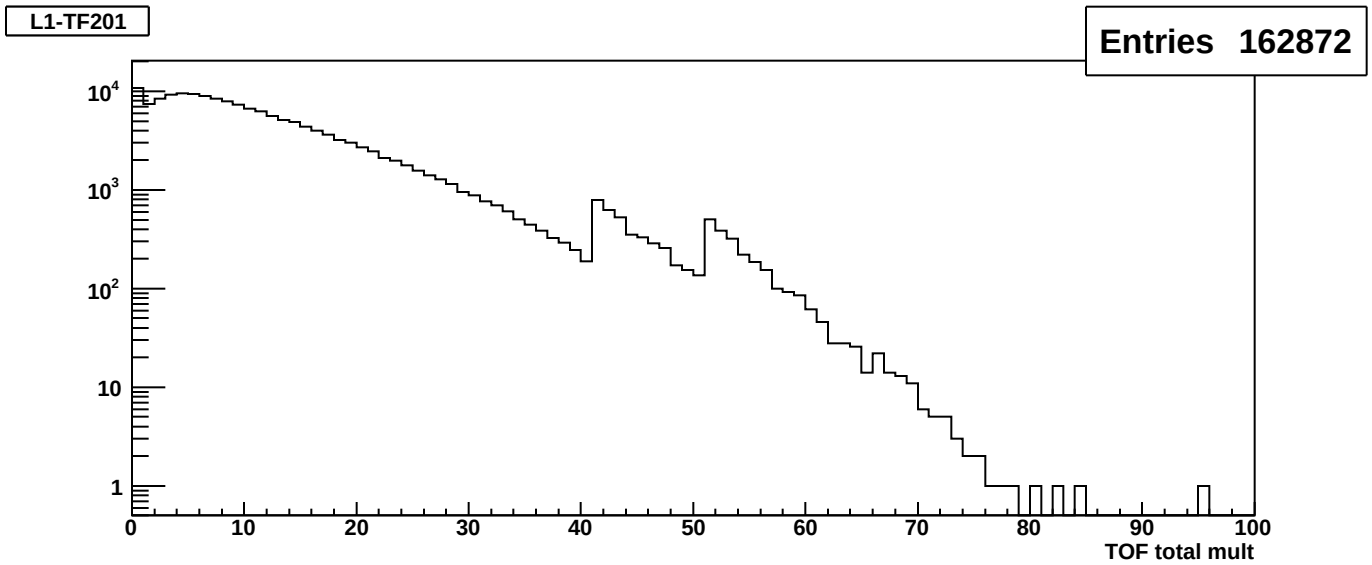

MIX-TF003
Entries 6840624
TOF MULT
TOF tray

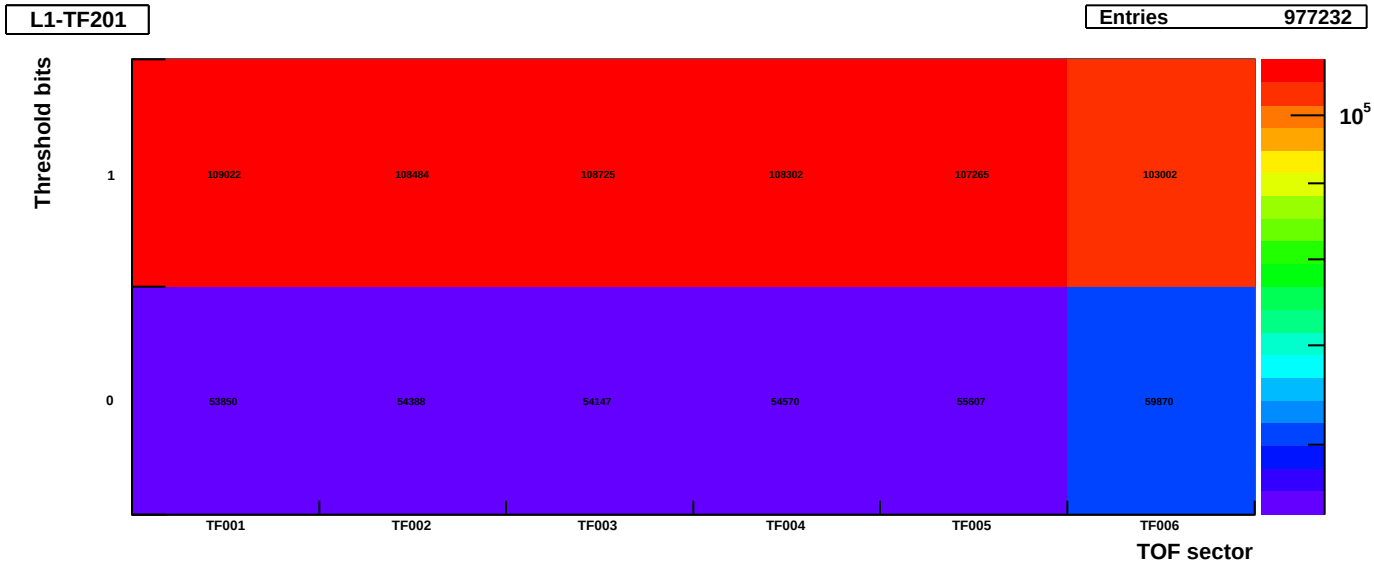

MIX-TF004
Entries 6840624
TOF MULT
TOF tray

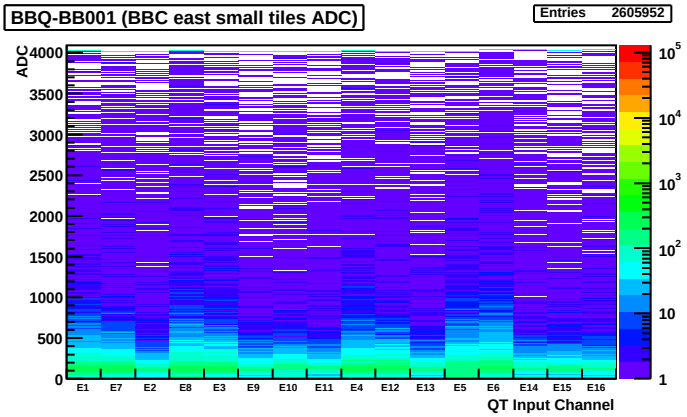

MIX-TF005
Entries 6840624
TOF MULT
TOF tray

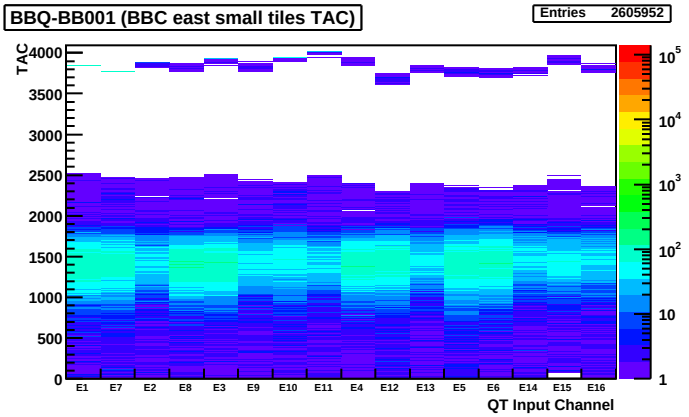

MIX-TF006
Entries 6840624
TOF MULT
TOF tray

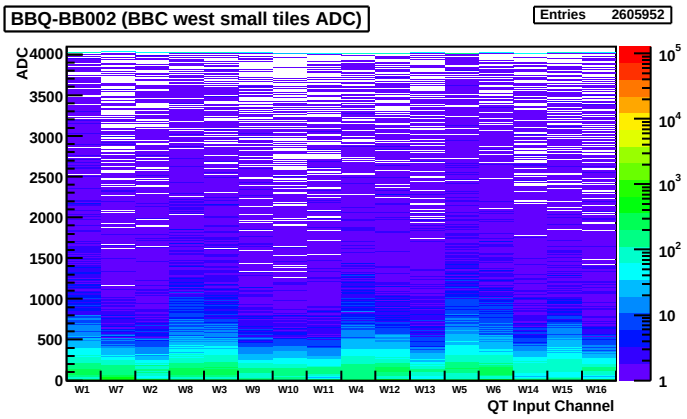

MIX-TF101
Entries 977232
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

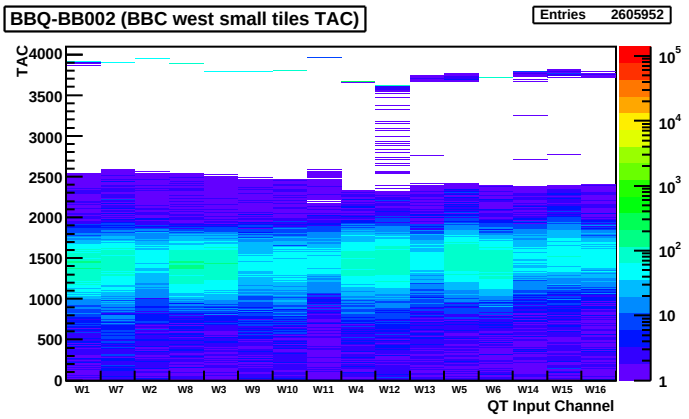

L1-TF201
Entries 162872
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

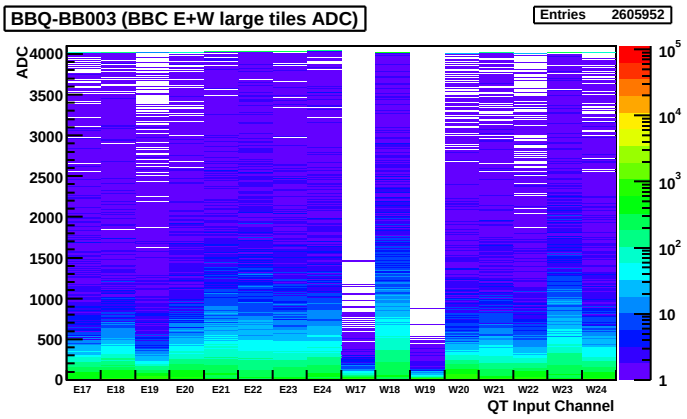

L1-TF201
Entries 977232
Threshold bits
1
0
109022
108484
108725
108302
107265
103002
53850
54388
54147
54570
55607
59870
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

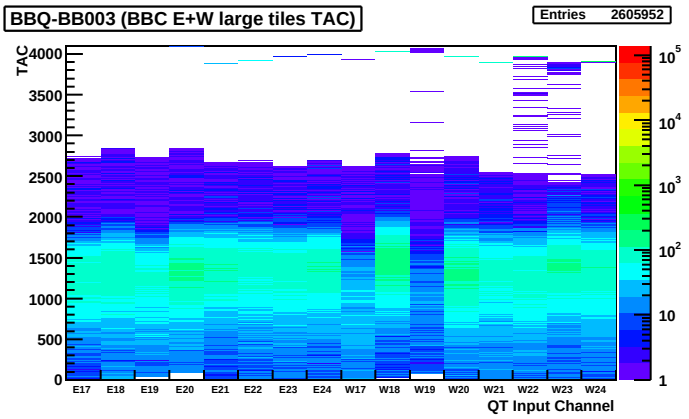

BBQ-BB001 (BBC east small tiles ADC)
Entries 2605952
ADC
QT Input Channel

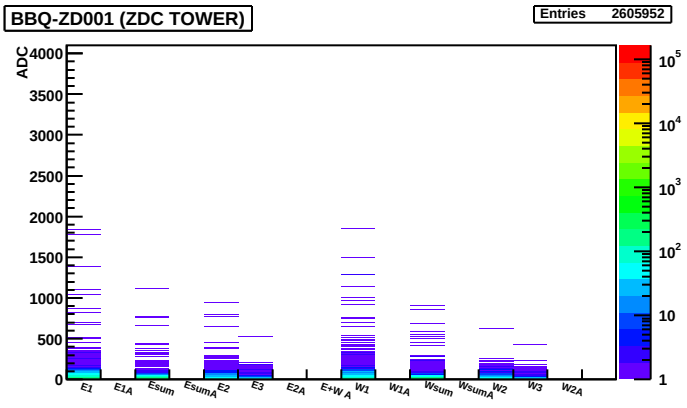

BBQ-BB001 (BBC east small tiles TAC)
Entries 2605952
TAC
QT Input Channel

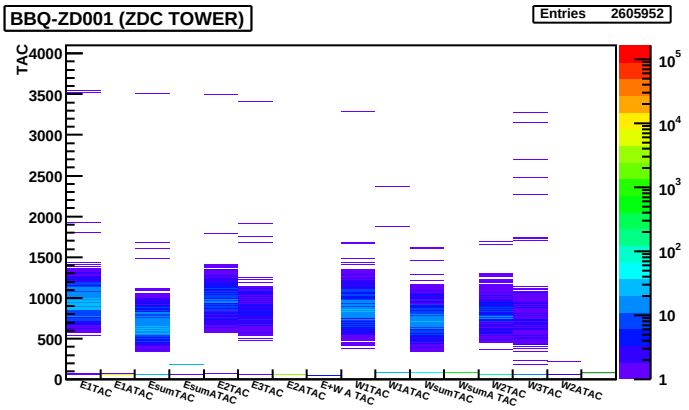

BBQ-BB002 (BBC west small tiles ADC)
Entries 2605952
ADC
QT Input Channel

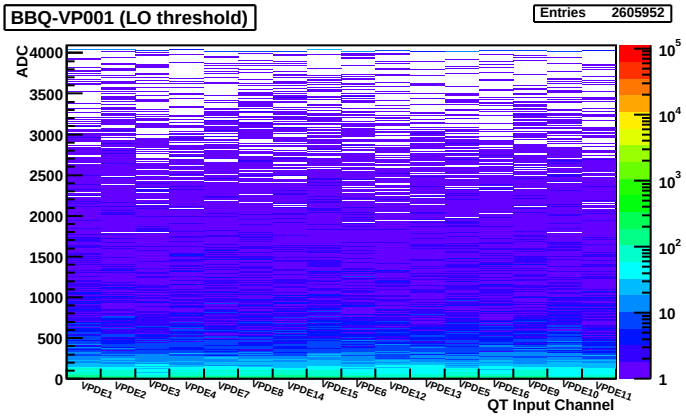

BBQ-BB002 (BBC west small tiles TAC)
Entries 2605952
TAC
QT Input Channel

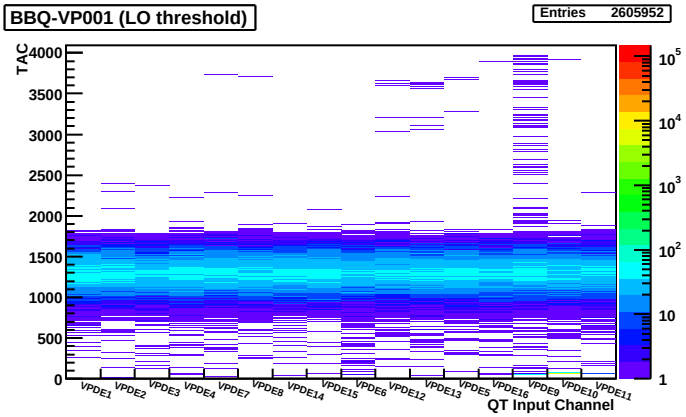

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2605952
ADC
QT Input Channel

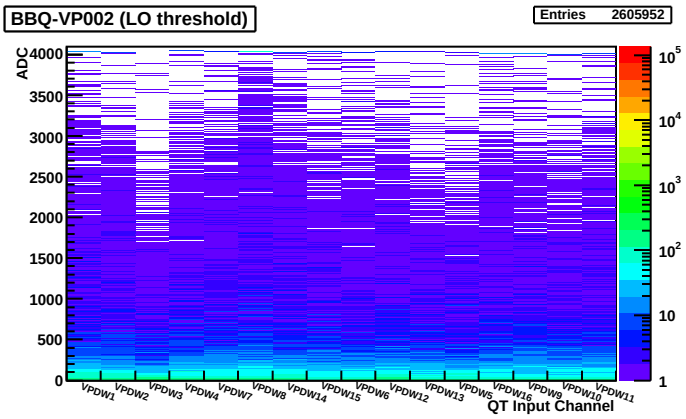

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2605952
TAC
QT Input Channel

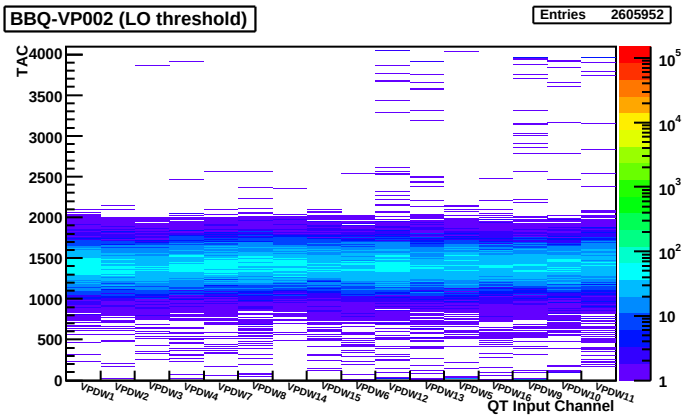

BBQ-ZD001 (ZDC TOWER)
Entries 2605952
ADC

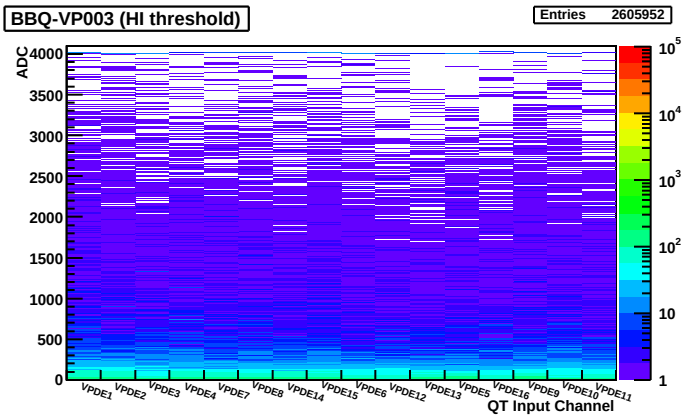

BBQ-ZD001 (ZDC TOWER)
Entries 2605952
TAC

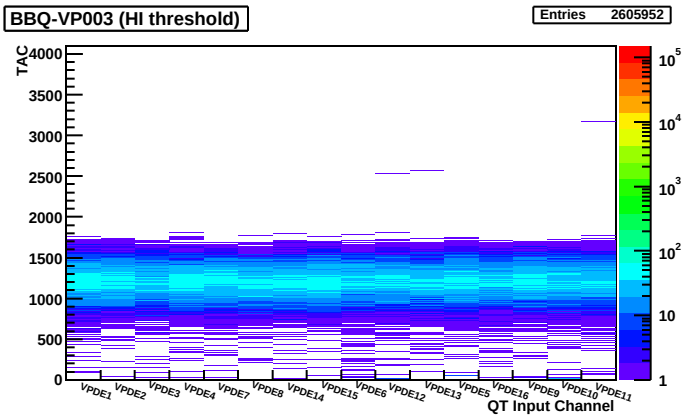

BBQ-VP001 (LO threshold)
Entries 2605952
ADC
QT Input Channel

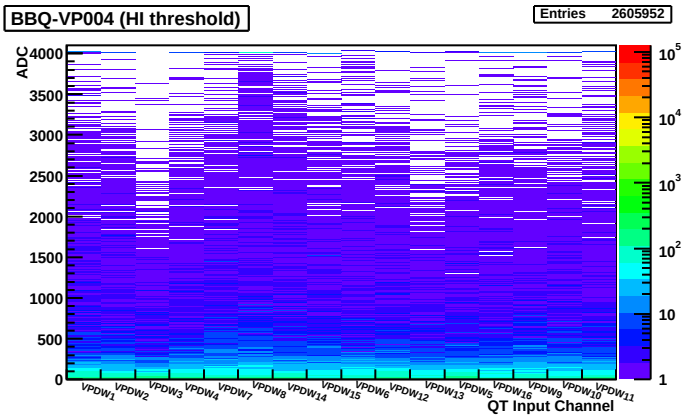

BBQ-VP001 (LO threshold)
Entries 2605952
TAC
QT Input Channel

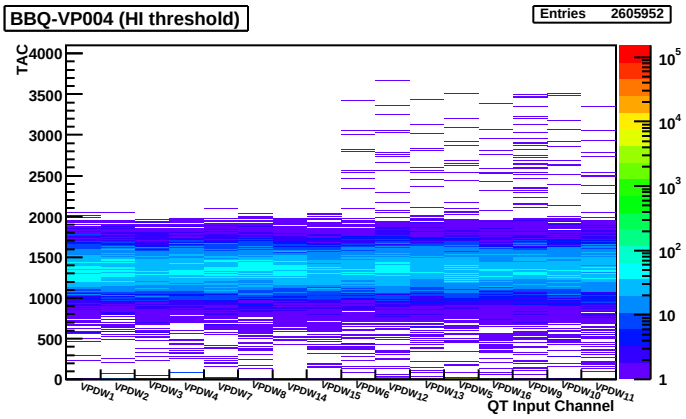

BBQ-VP002 (LO threshold)
Entries 2605952
ADC
QT Input Channel

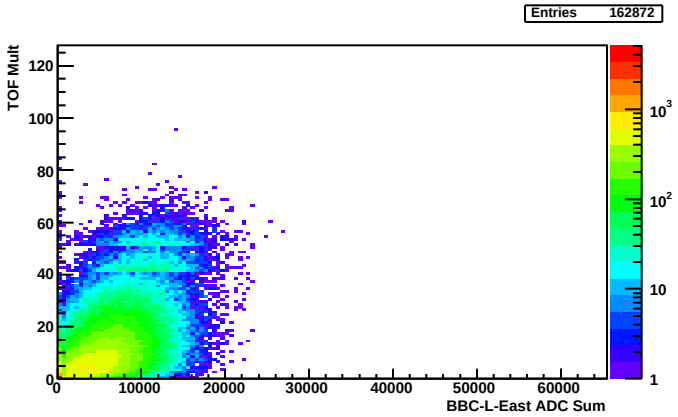

BBQ-VP002 (LO threshold)
Entries 2605952
TAC
QT Input Channel

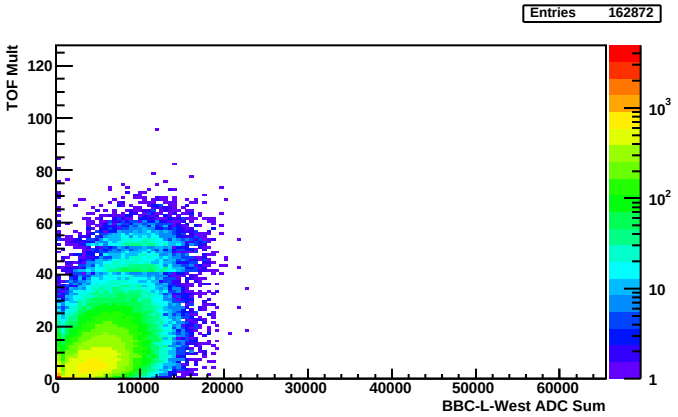

BBQ-VP003 (HI threshold)
Entries 2605952
ADC
QT Input Channel

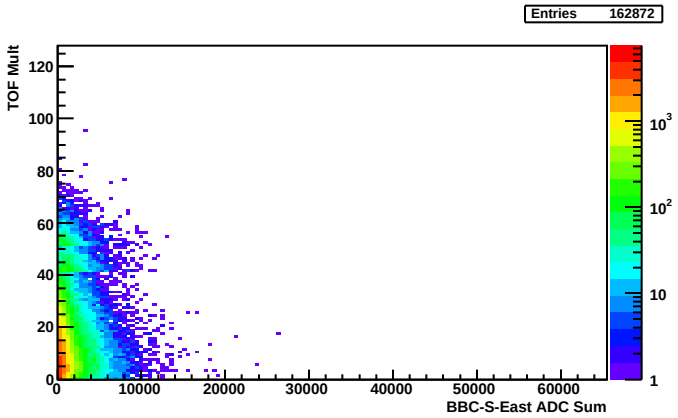

BBQ-VP003 (HI threshold)
Entries 2605952
TAC
QT Input Channel

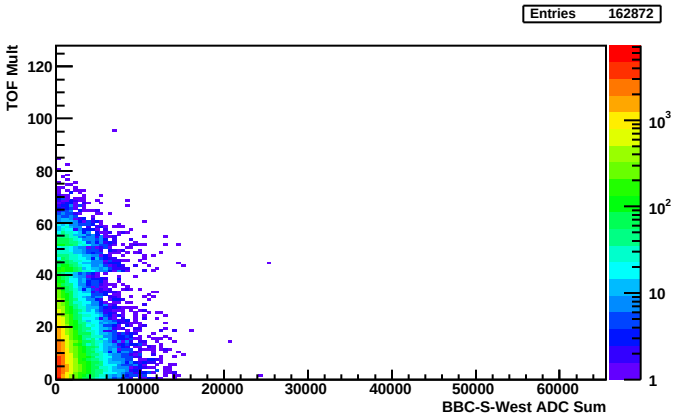

BBQ-VP004 (HI threshold)
Entries 2605952
ADC
QT Input Channel

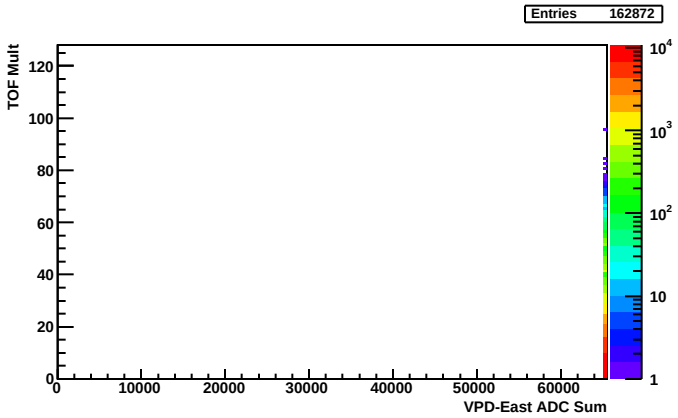

BBQ-VP004 (HI threshold)
Entries 2605952
TAC
QT Input Channel

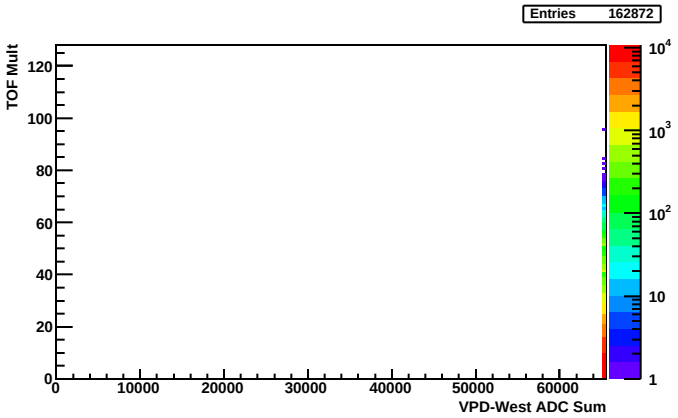

Entries 162872
TOF Mult
BBC-L-East ADC Sum

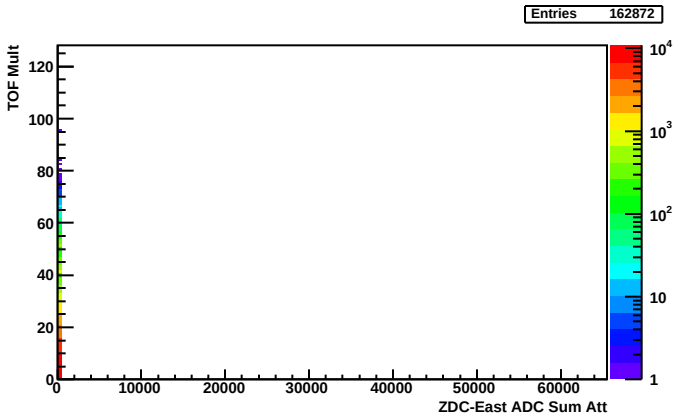

Entries 162872
TOF Mult
BBC-L-West ADC Sum

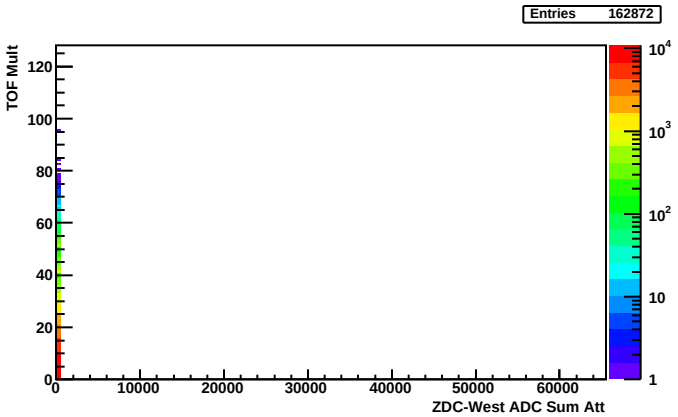

Entries 162872
TOF Mult
BBC-S-East ADC Sum

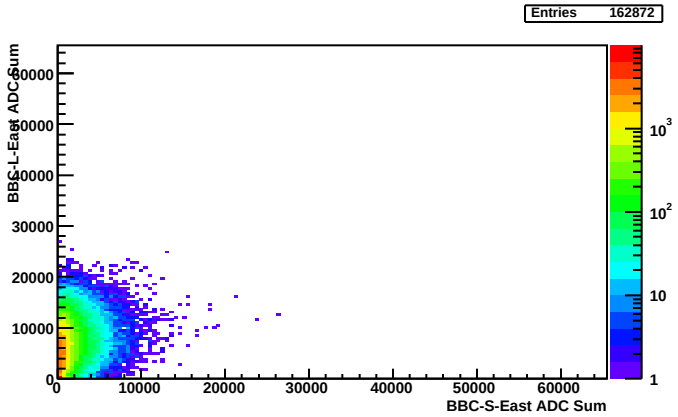

Entries 162872
TOF Mult
BBC-S-West ADC Sum

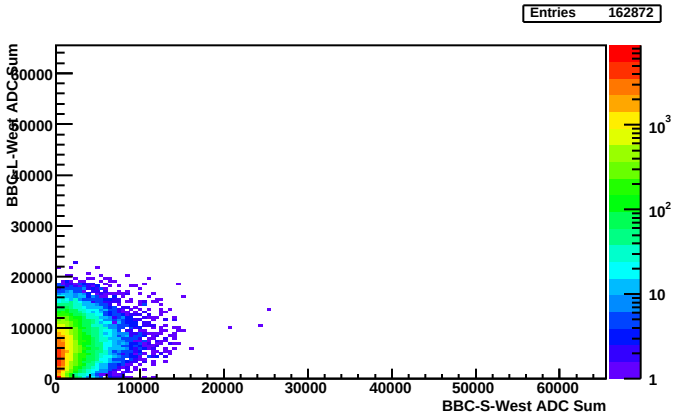

Entries 162872
TOF Mult
VPD-East ADC Sum

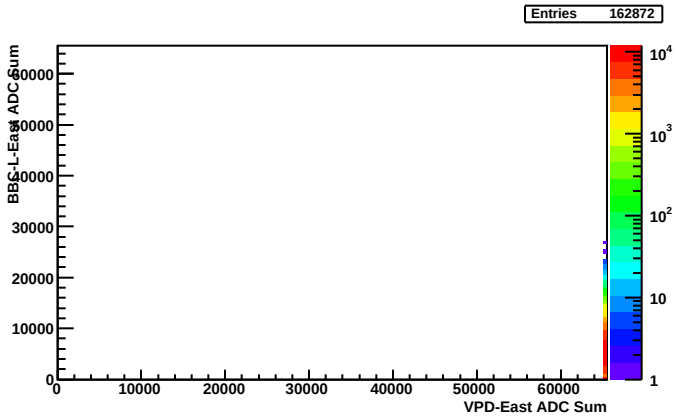

Entries 162872
TOF Mult
VPD-West ADC Sum

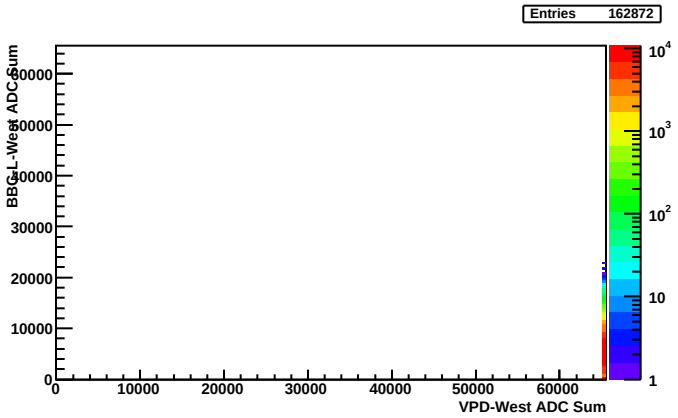

Entries 162872
TOF Mult
ZDC-East ADC Sum Att

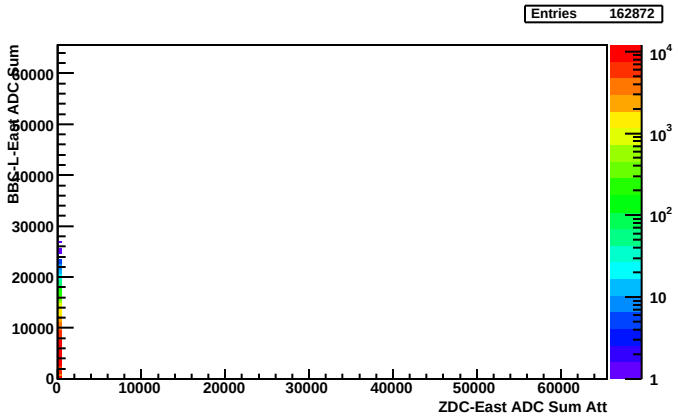

Entries 162872
TOF Mult
ZDC-West ADC Sum Att

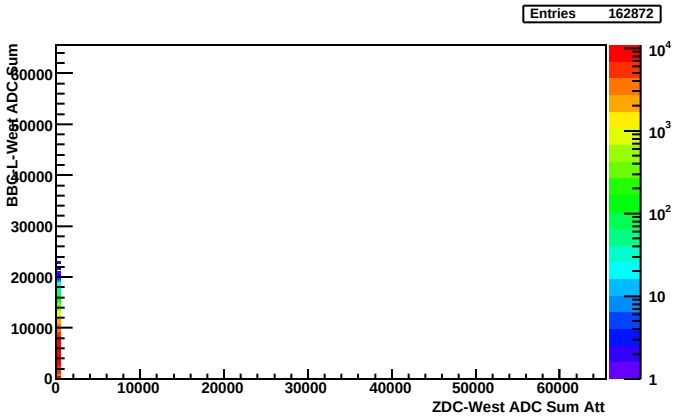

Entries 162872
BBC-L-East ADC Sum
BBC-S-East ADC Sum

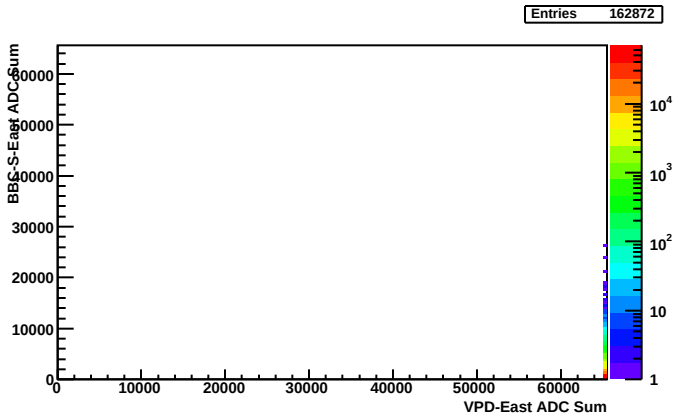

Entries 162872
BBC-L-West ADC Sum
BBC-S-West ADC Sum

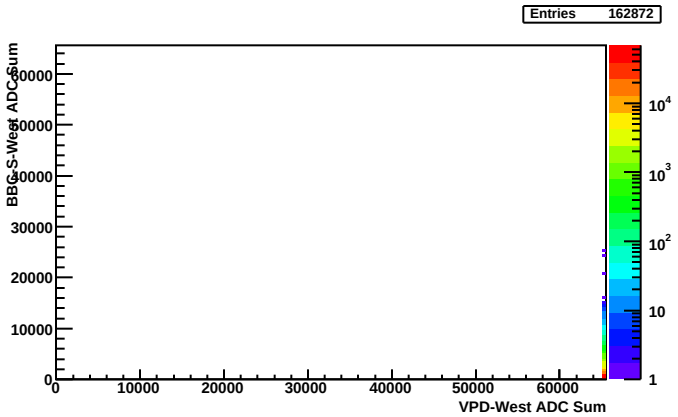

Entries 162872
BBC-L-East ADC Sum
VPD-East ADC Sum

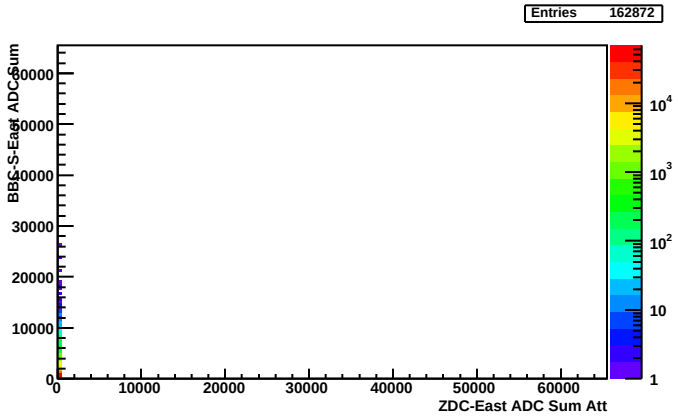

Entries 162872
BBC-L-West ADC Sum
VPD-West ADC Sum

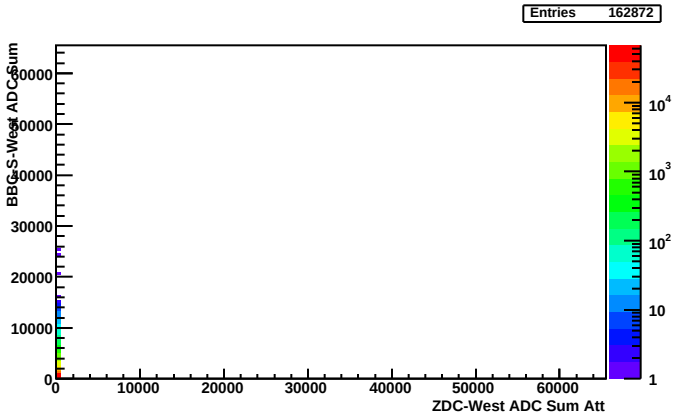

Entries 162872
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

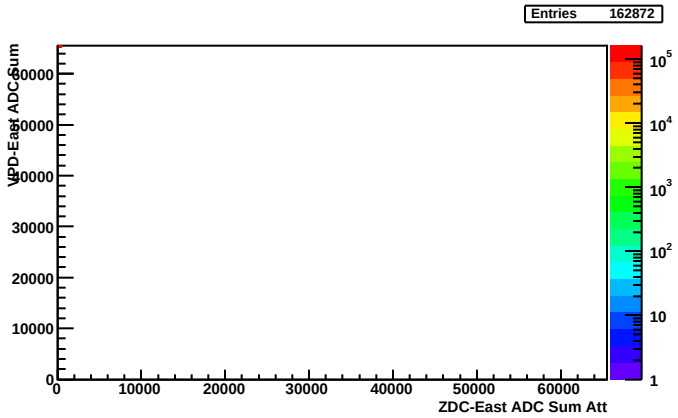

Entries 162872
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

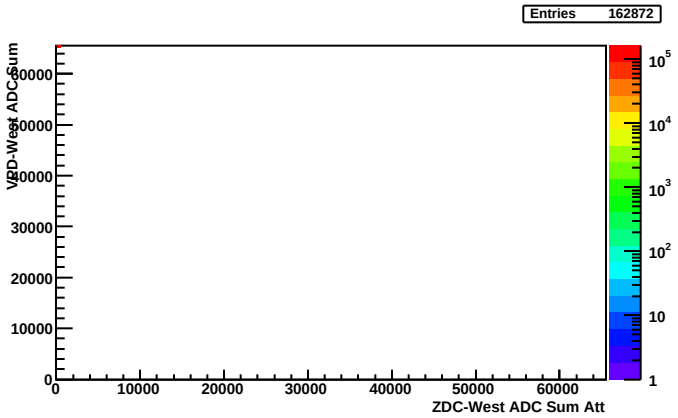

Entries 162872
BBC-S-East ADC Sum
VPD-East ADC Sum

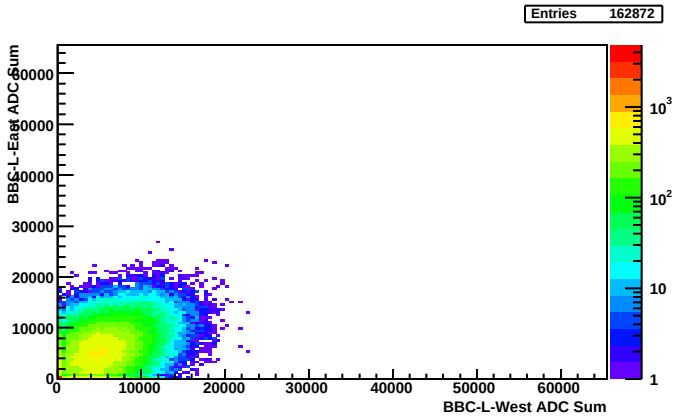

Entries 162872
BBC-S-West ADC Sum
VPD-West ADC Sum

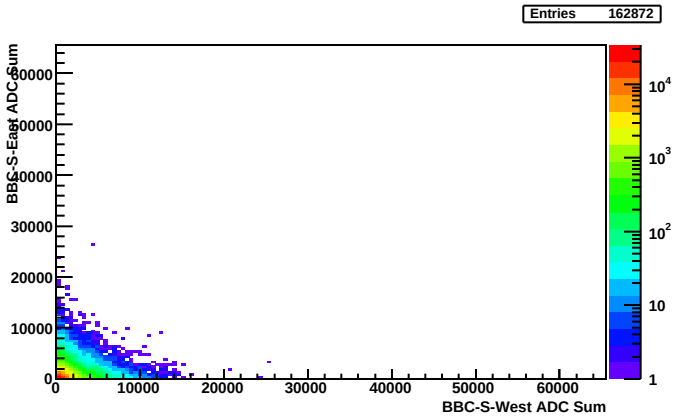

Entries 162872
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

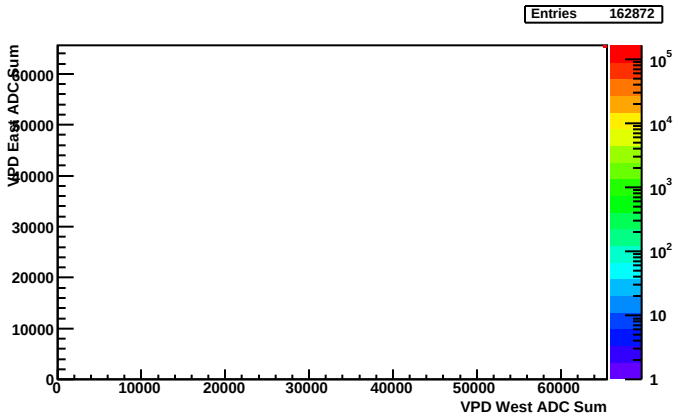

Entries 162872
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

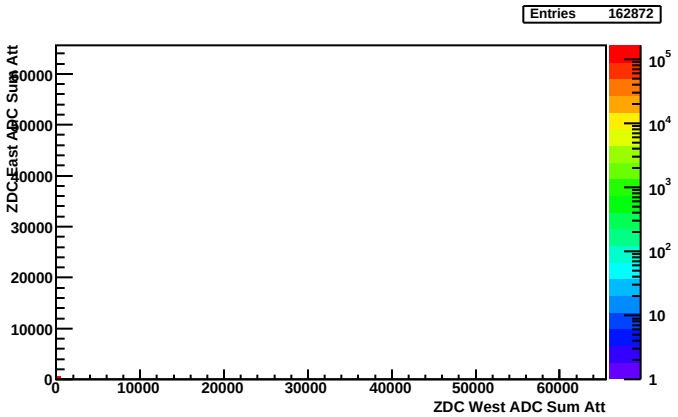

Entries 162872
VPD-East ADC Sum
ZDC-East ADC Sum Att

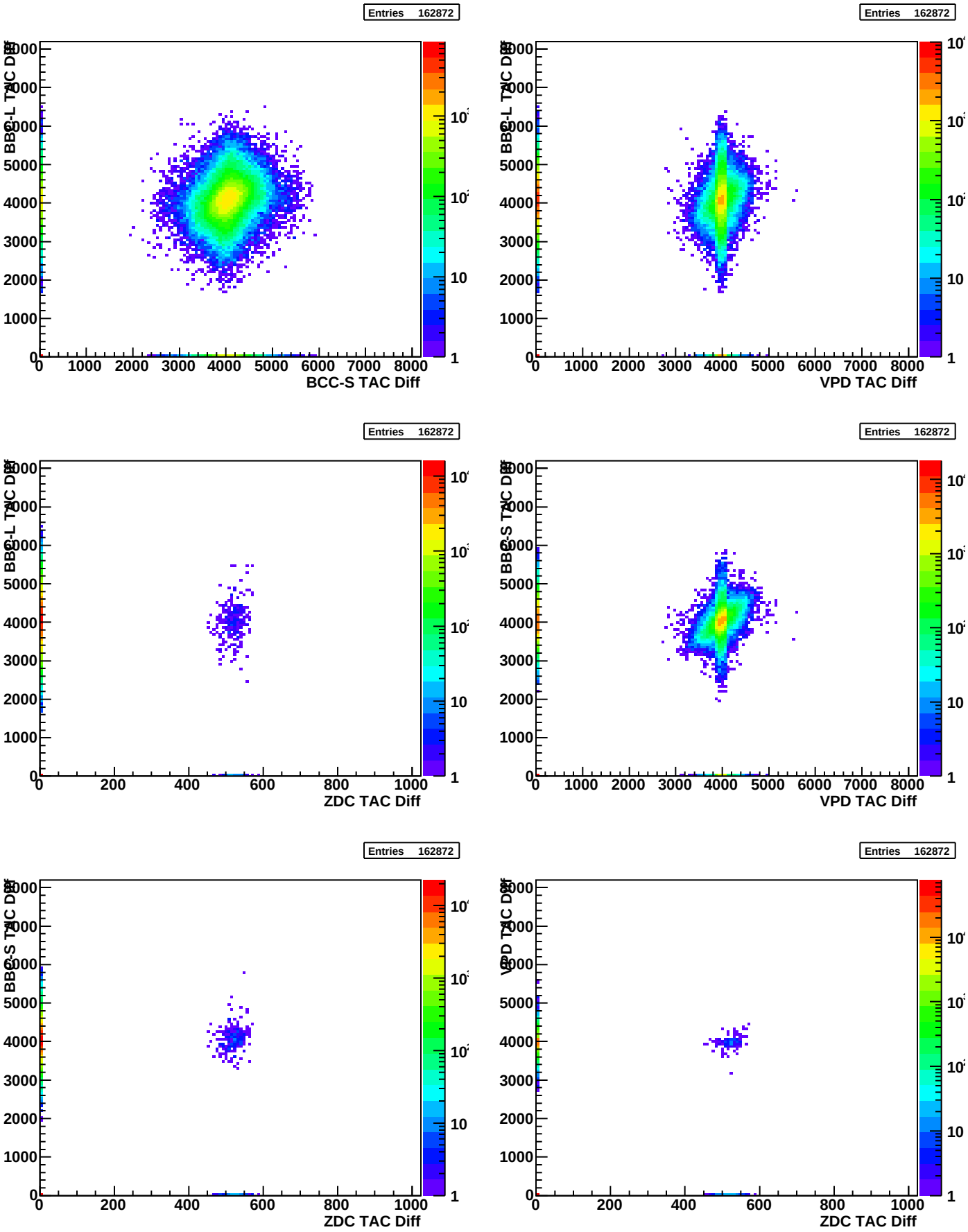

Entries 162872
VPD-West ADC Sum
ZDC-West ADC Sum Att

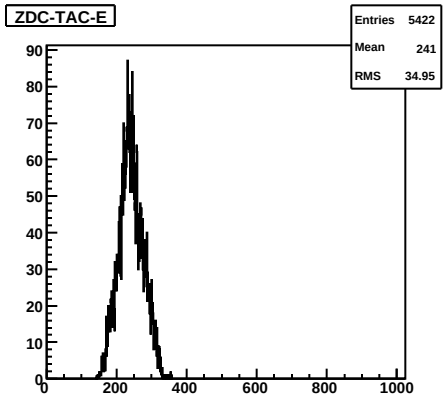

Entries 162872
BBC-L-East ADC Sum
BBC-L-West ADC Sum

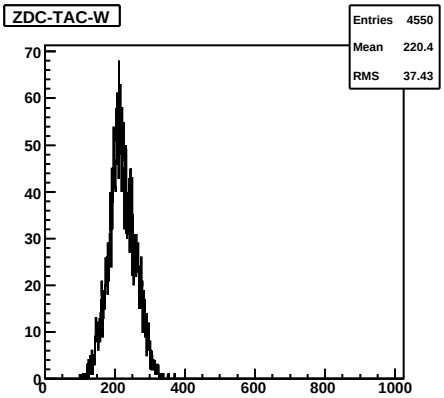

Entries 162872
BBC-S-East ADC Sum
BBC-S-West ADC Sum

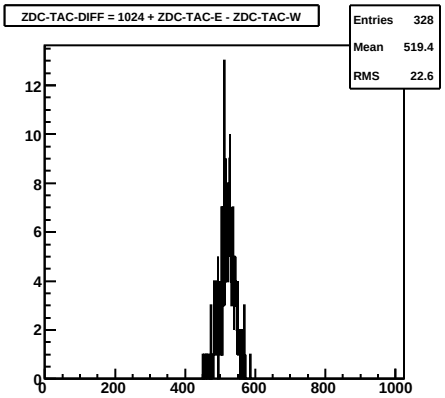

Entries 162872
VPD East ADC Sum
VPD West ADC Sum

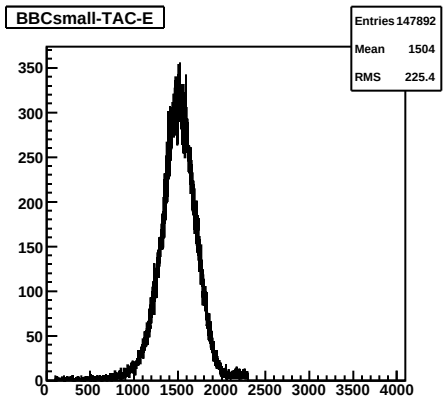

Entries 162872
ZDC East ADC Sum Att
ZDC West ADC Sum Att

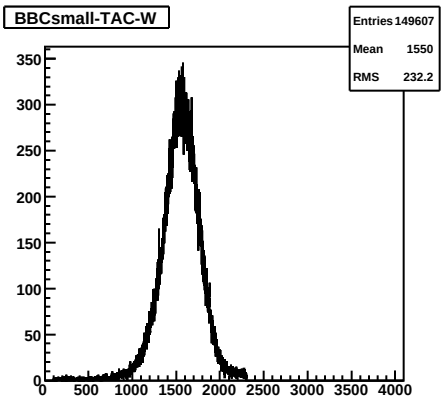

Entries 162872
BBC-L TAC Diff
BCC-S TAC Diff
Entries 162872
BBC-L TAC Diff
VPD TAC Diff
Entries 162872
BBC-L TAC Diff
ZDC TAC Diff
Entries 162872
BBC-S TAC Diff
VPD TAC Diff
Entries 162872
BBC-S TAC Diff
ZDC TAC Diff
Entries 162872
VPD TAC Diff
ZDC TAC Diff

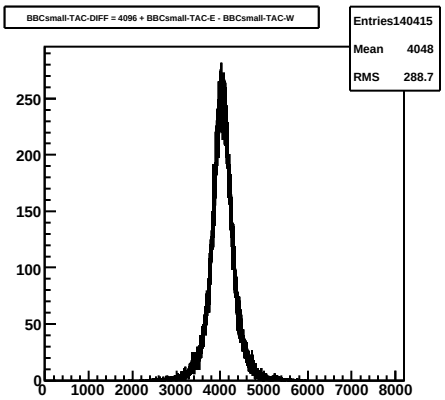

ZDC-TAC-E
Entries 5422
Mean 241
RMS 34.95

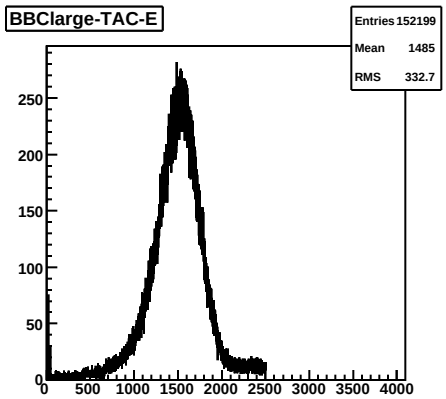

ZDC-TAC-W
Entries 4550
Mean 220.4
RMS 37.43

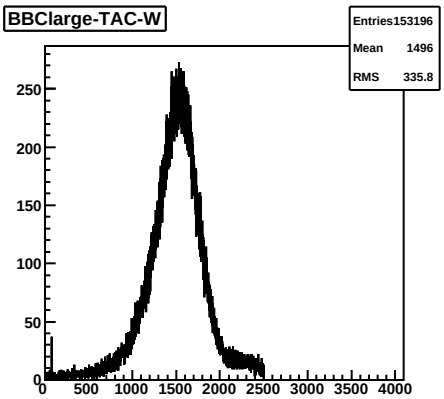

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 328
Mean 519.4
RMS 22.6

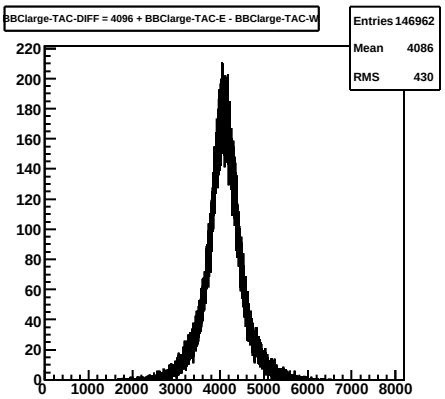

BBCsmall-TAC-E
Entries 147892
Mean 1504
RMS 225.4

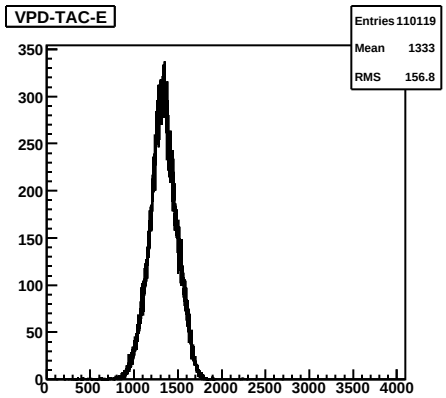

BBCsmall-TAC-W
Entries 149607
Mean 1550
RMS 232.2

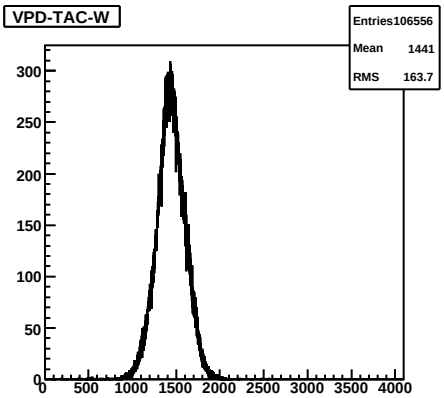

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 140415
Mean 4048
RMS 288.7

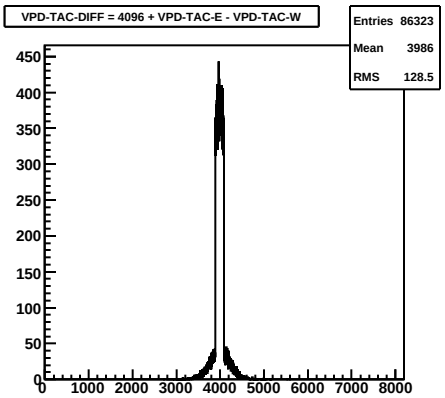

BBClarge-TAC-E
Entries 152199
Mean 1485
RMS 332.7

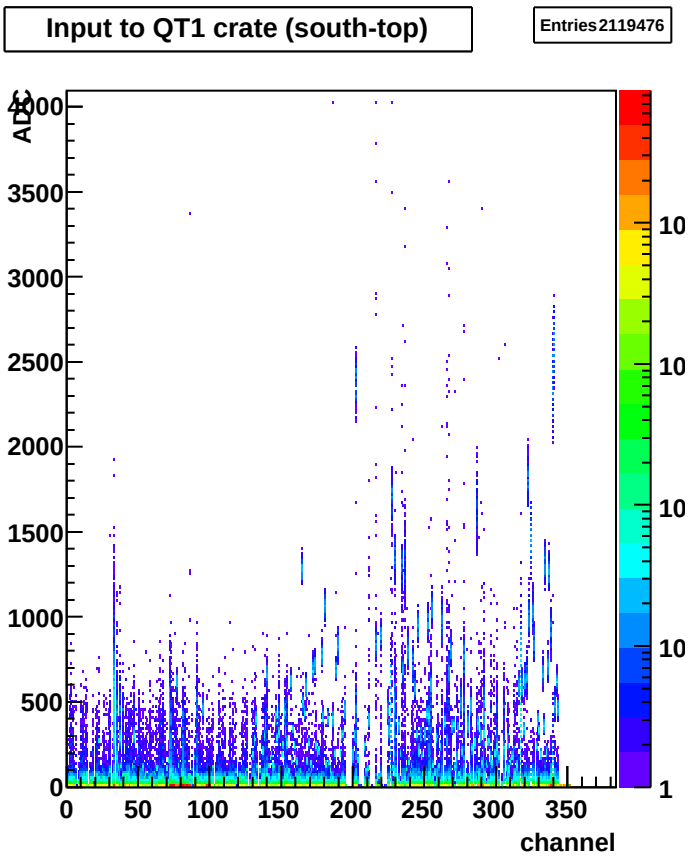

BBClarge-TAC-W
Entries 153196
Mean 1496
RMS 335.8

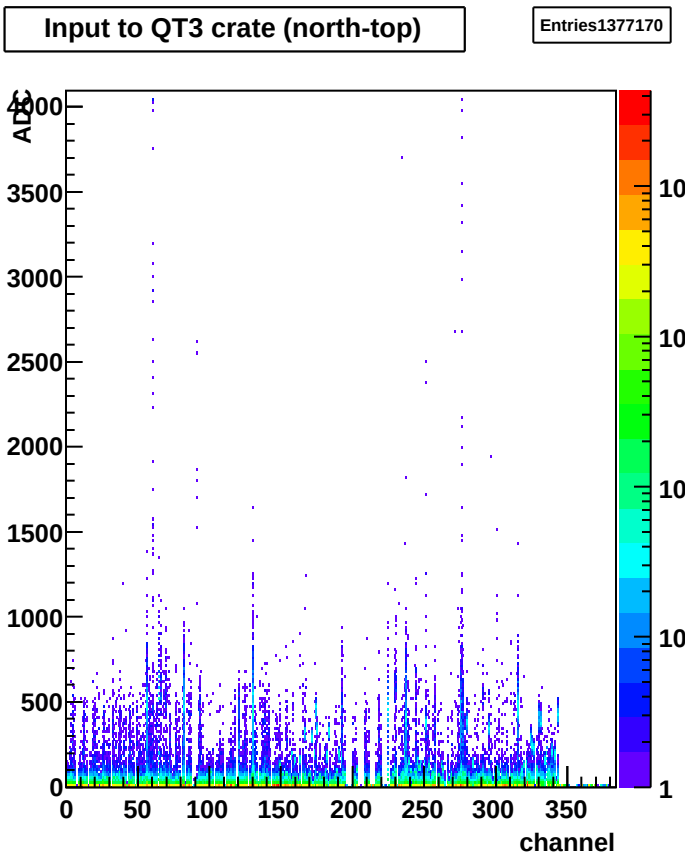

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 146962
Mean 4086
RMS 430

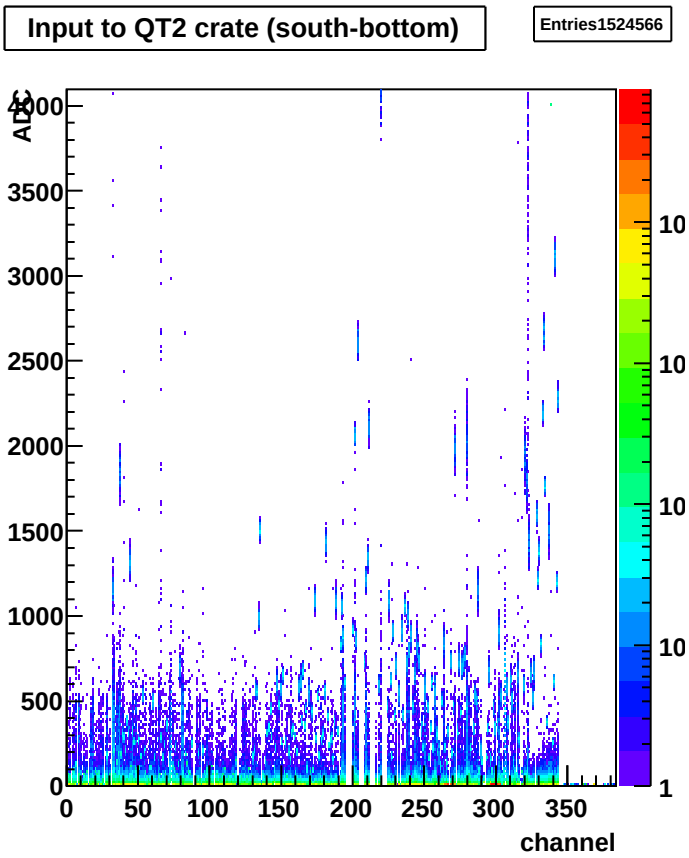

VPD-TAC-E
Entries 110119
Mean 1333
RMS 156.8

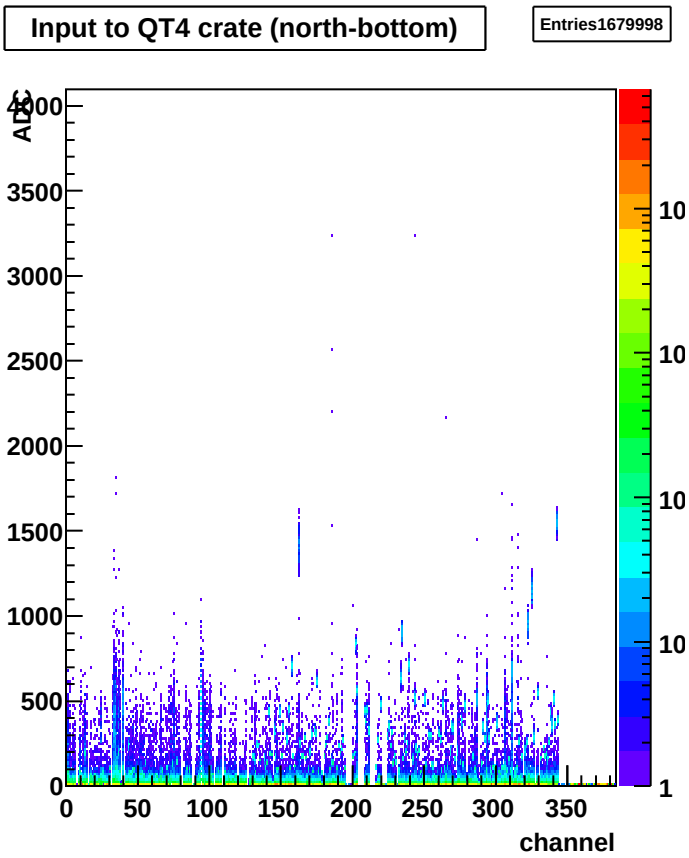

VPD-TAC-W
Entries 106556
Mean 1441
RMS 163.7

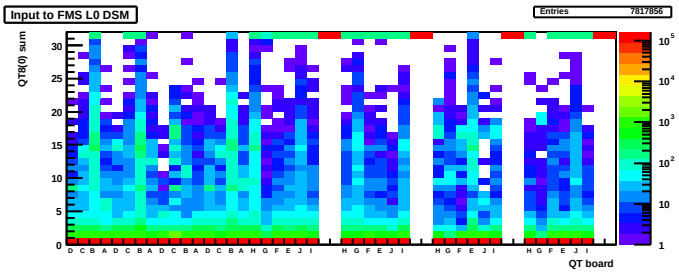

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 86323
Mean 3986
RMS 128.5

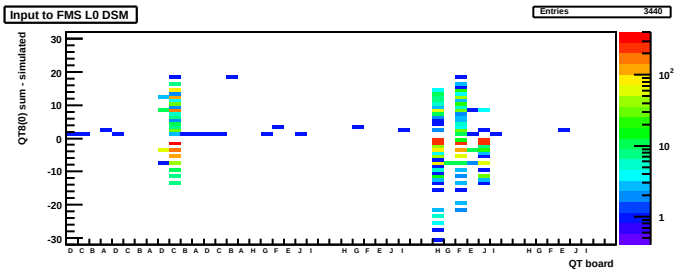

Input to QT1 crate (south-top)
Entries2119476
ADC
channel

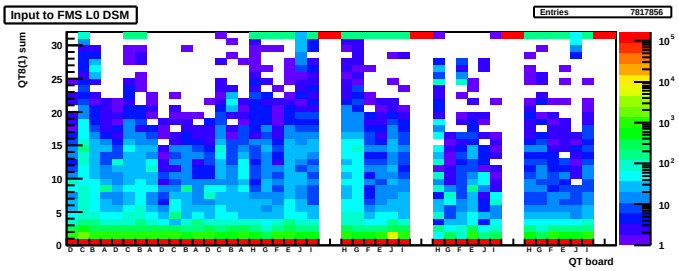

Input to QT3 crate (north-top)
Entries1377170
ADC
channel

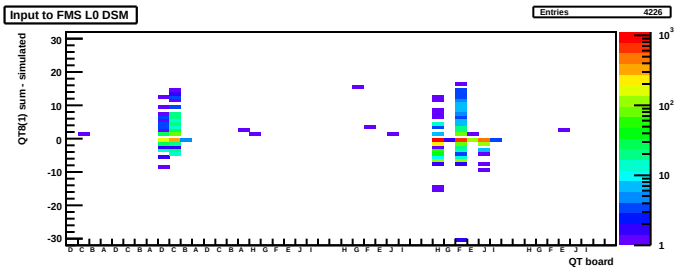

Input to QT2 crate (south-bottom)
Entries1524566
ADC
channel

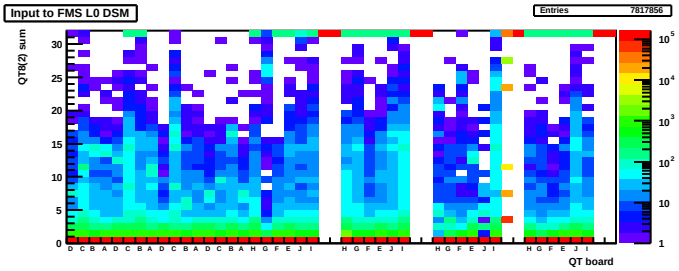

Input to QT4 crate (north-bottom)
Entries1679998
ADC
channel

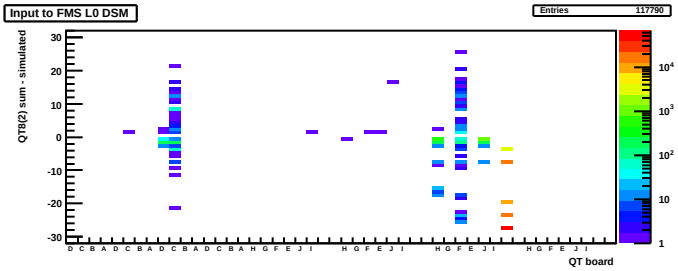

Input to FMS L0 DSM
Entries 7817856
QT8(0) sum
QT board

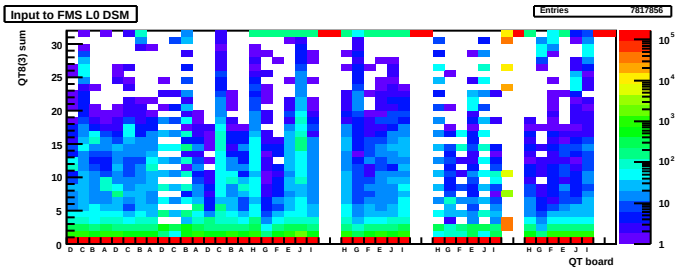

Input to FMS L0 DSM
Entries 3440
QT8(0) sum - simulated
QT board

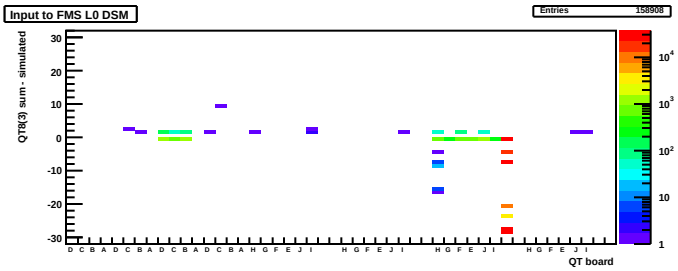

Input to FMS L0 DSM
Entries 7817856
QT8(1) sum
QT board

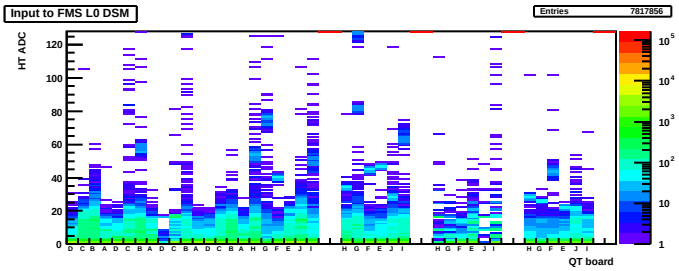

Input to FMS L0 DSM
Entries 4226
QT8(1) sum - simulated
QT board

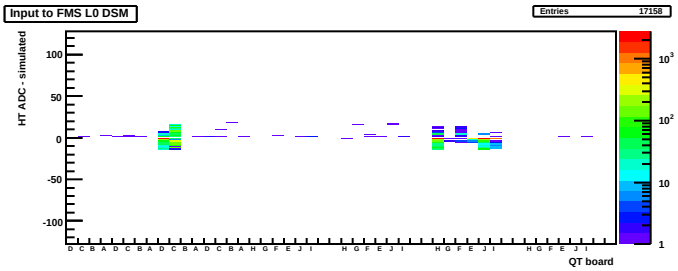

Input to FMS L0 DSM
Entries 7817856
QT8(2) sum
QT board

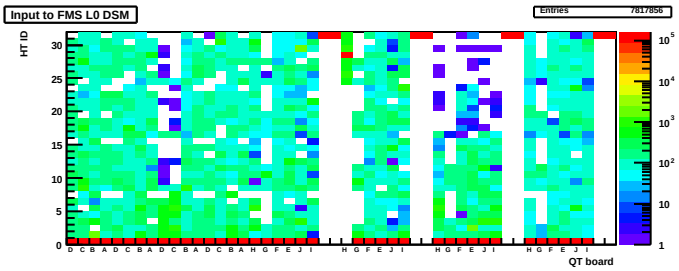

Input to FMS L0 DSM
Entries 117790
QT8(2) sum - simulated
QT board

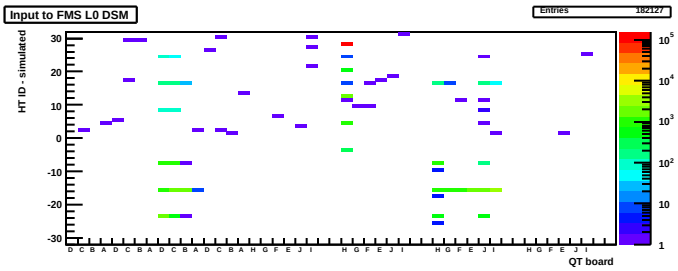

Input to FMS L0 DSM
Entries 7817856
QT8(3) sum
QT board

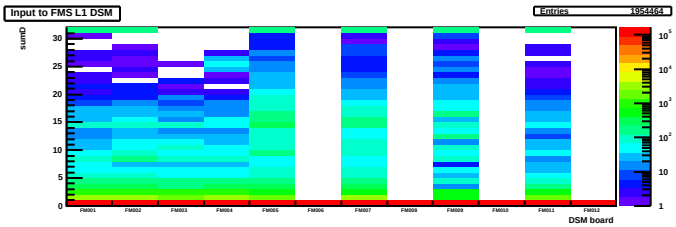

Input to FMS L0 DSM
Entries 158908
QT8(3) sum - simulated
QT board

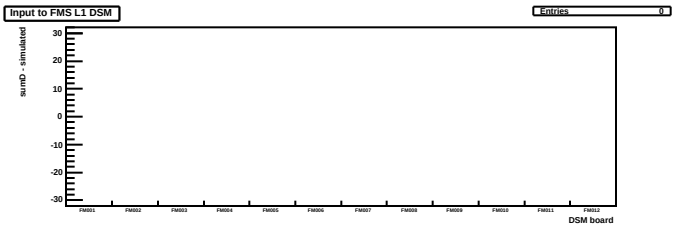

Input to FMS L0 DSM
Entries 7817856
HT ADC
QT board

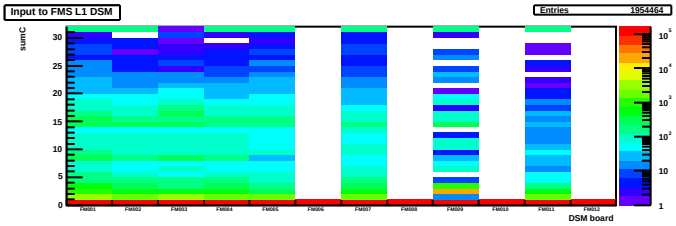

Input to FMS L0 DSM
Entries 17158
HT ADC - simulated
QT board

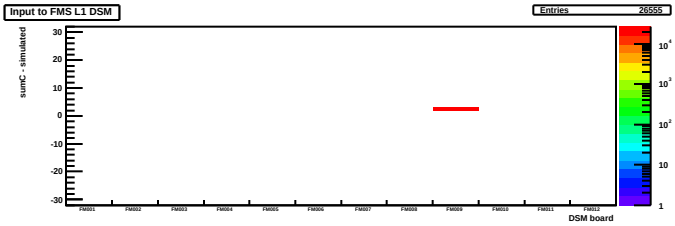

Input to FMS L0 DSM
Entries 7817856
HT ID
QT board

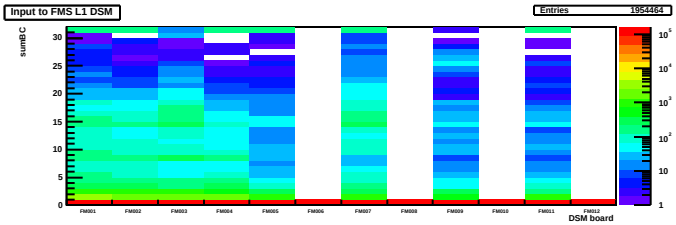

Input to FMS L0 DSM
Entries 182127
HT ID - simulated
QT board

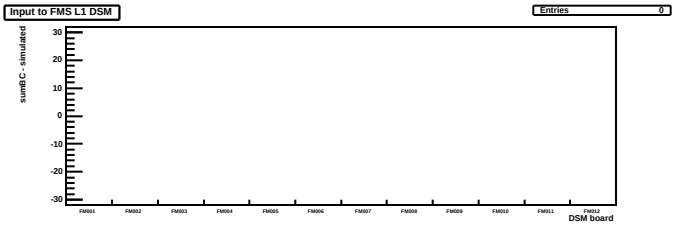

Input to FMS L1 DSM
Entries 1954464
sumD
DSM board

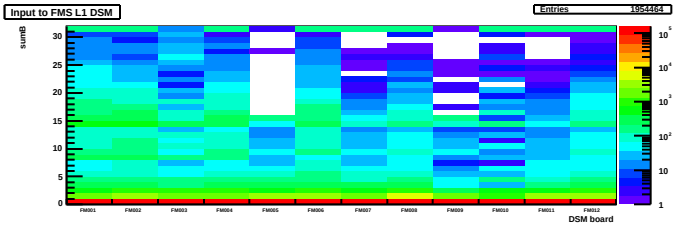

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

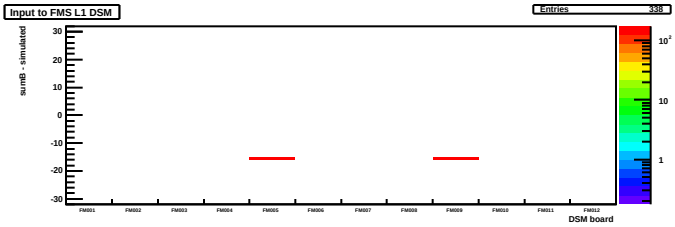

Input to FMS L1 DSM
Entries 1954464
sumC
DSM board

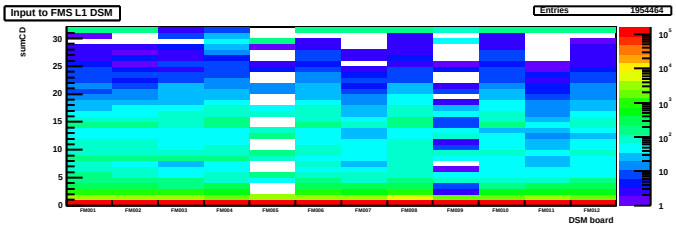

Input to FMS L1 DSM
Entries 26555
sumC - simulated
DSM board

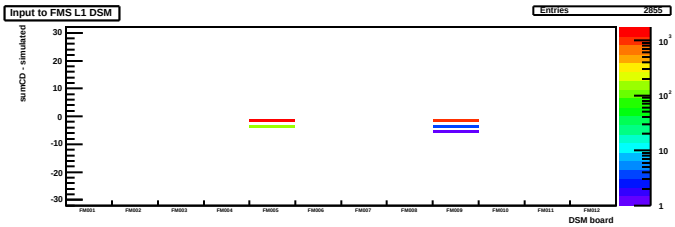

Input to FMS L1 DSM
Entries 1954464
sumBC
DSM board

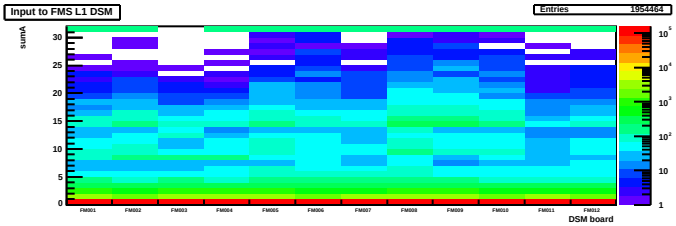

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

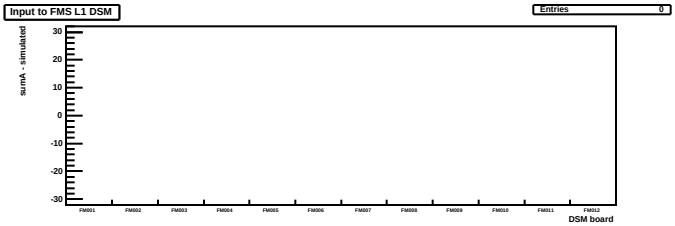

Input to FMS L1 DSM
Entries 1954464
sumB
DSM board

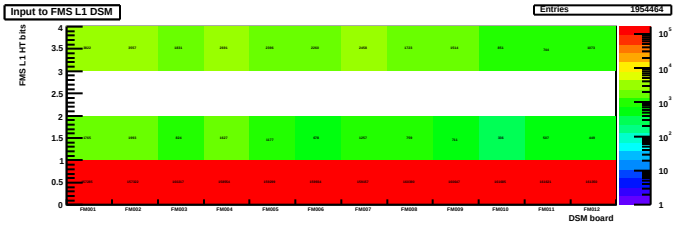

Input to FMS L1 DSM
Entries 338
sumB - simulated
DSM board

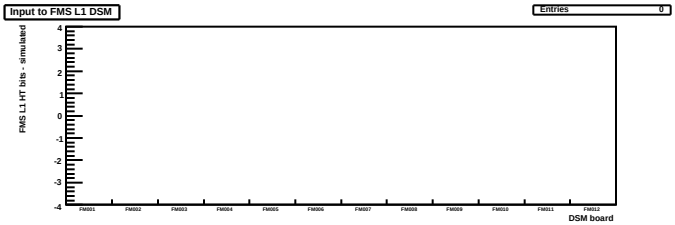

Input to FMS L1 DSM
Entries 1954464
sumCD
DSM board

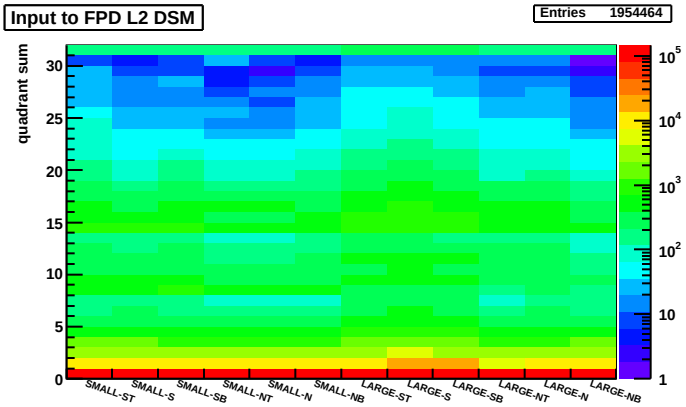

Input to FMS L1 DSM
Entries 2855
sumCD - simulated
DSM board

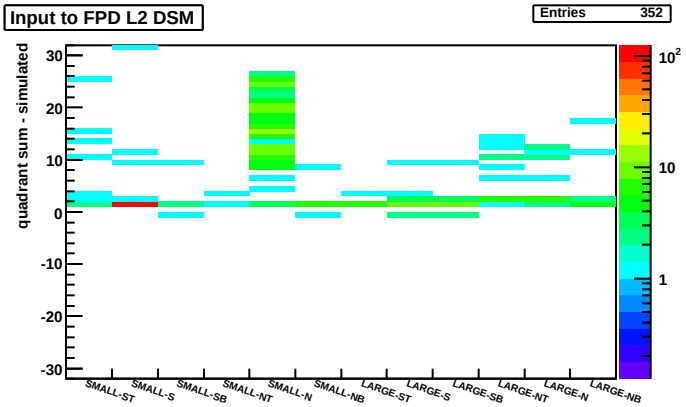

Input to FMS L1 DSM
Entries 1954464
sumA
DSM board

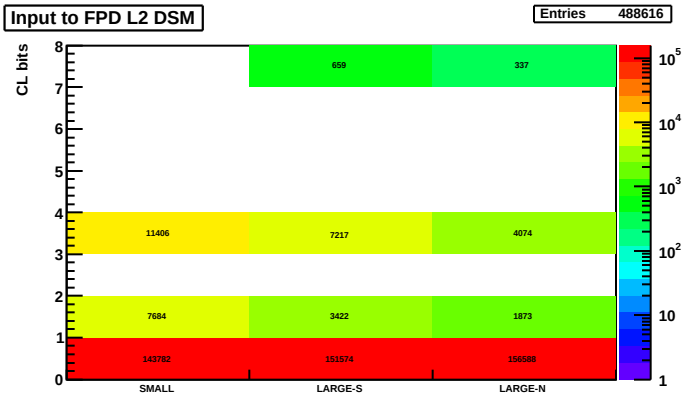

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

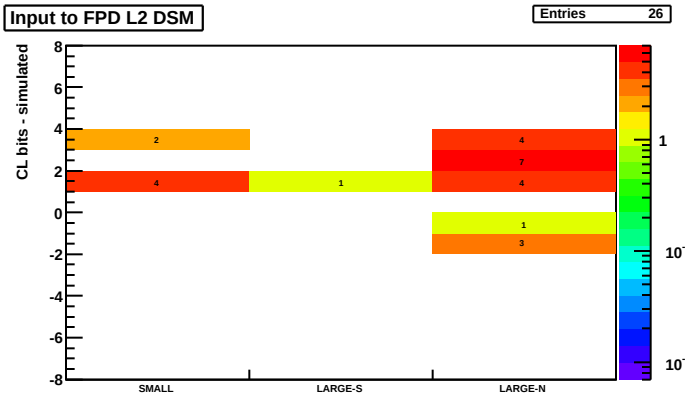

Input to FMS L1 DSM
Entries 1954464
FMS L1 HT bits
DSM board

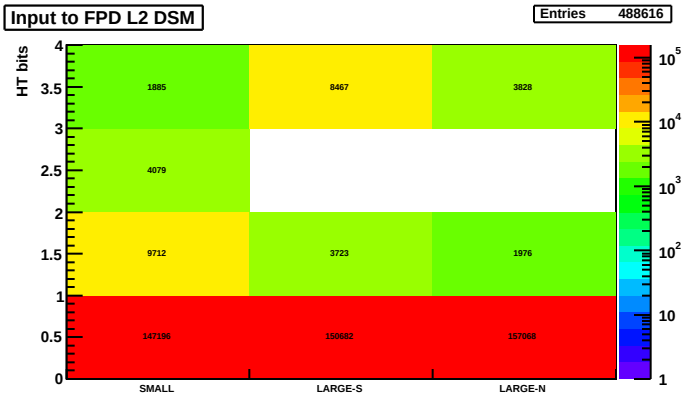

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

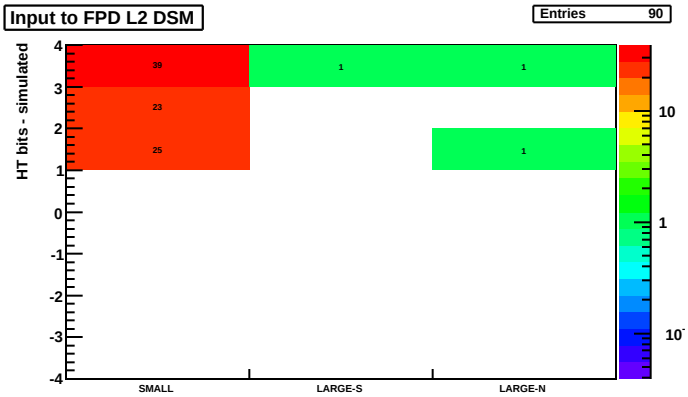

Input to FPD L2 DSM
Entries 1954464
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

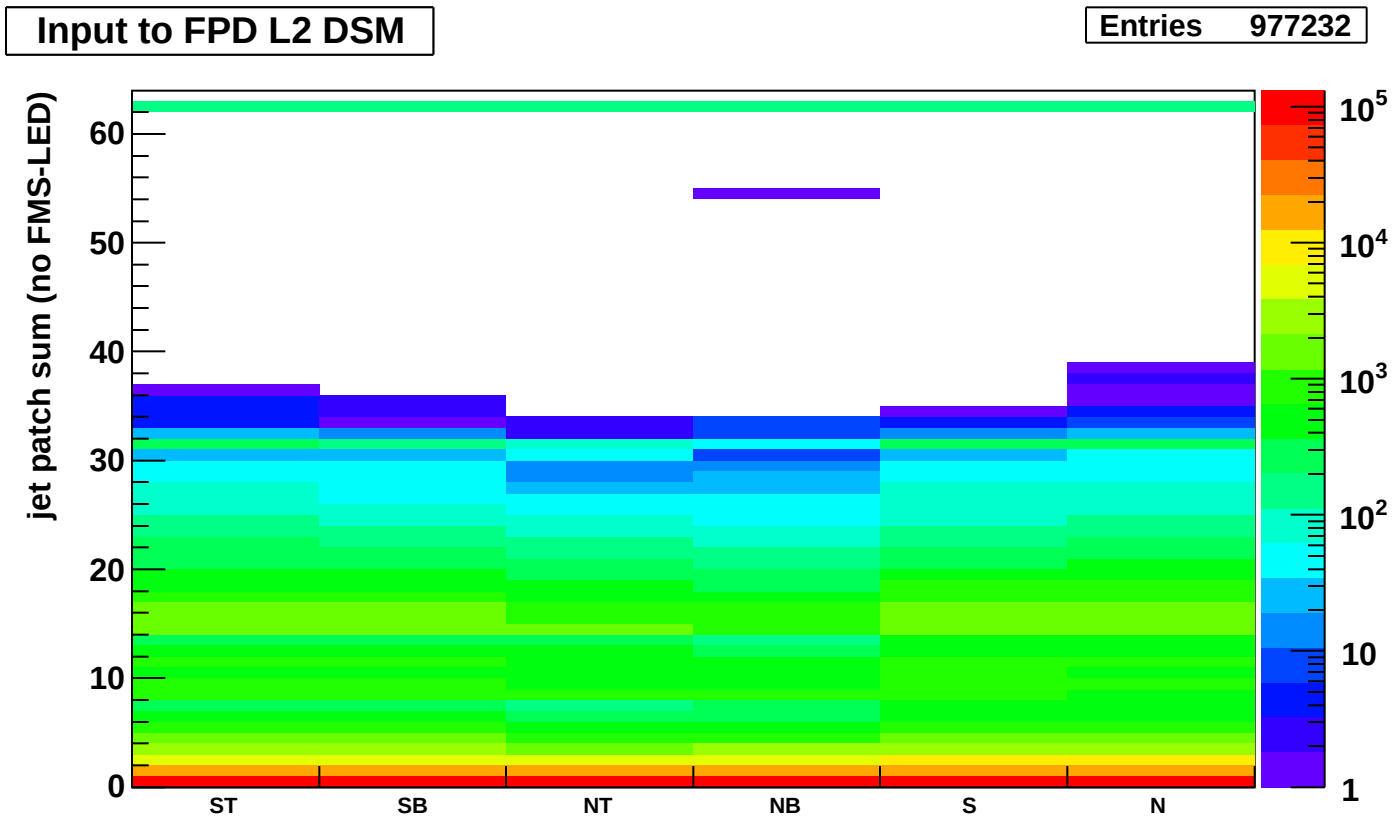

Input to FPD L2 DSM
Entries 352
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

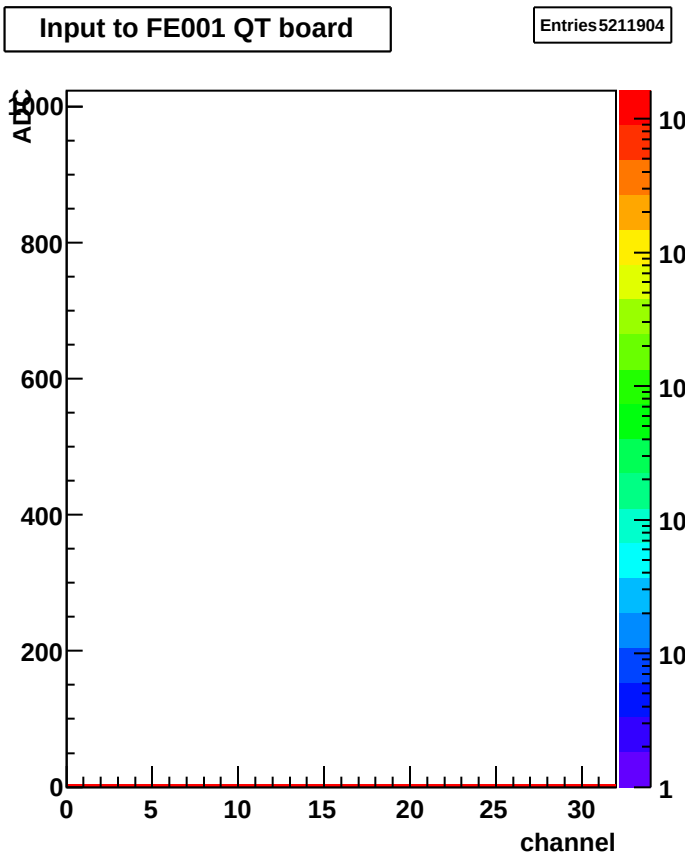

Input to FPD L2 DSM
Entries 488616
CL bits
659
337
11406
7217
4074
7684
3422
1873
143782
151574
156588
SMALL
LARGE-S
LARGE-N

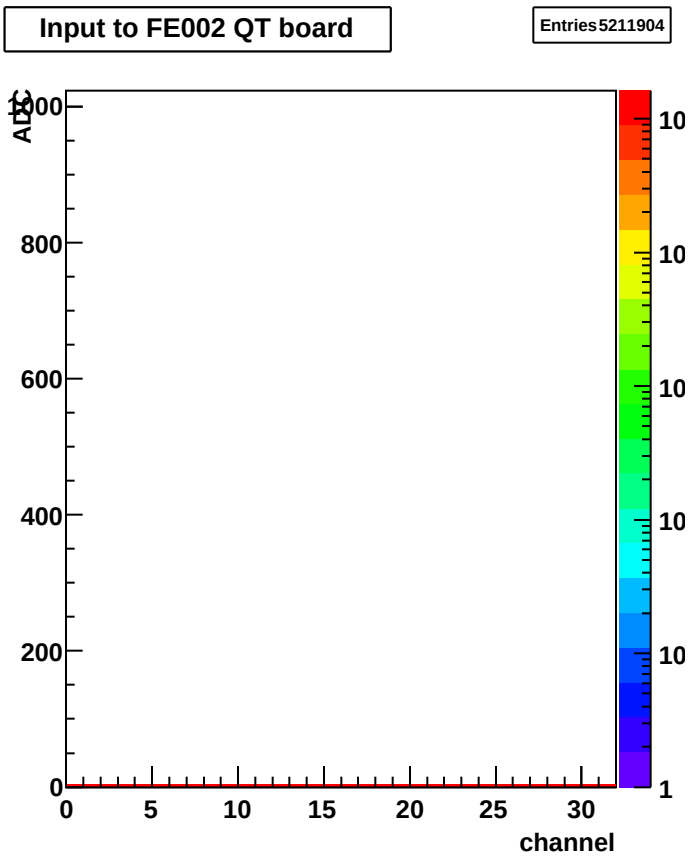

Input to FPD L2 DSM
Entries 26
CL bits - simulated
SMALL
LARGE-S
LARGE-N

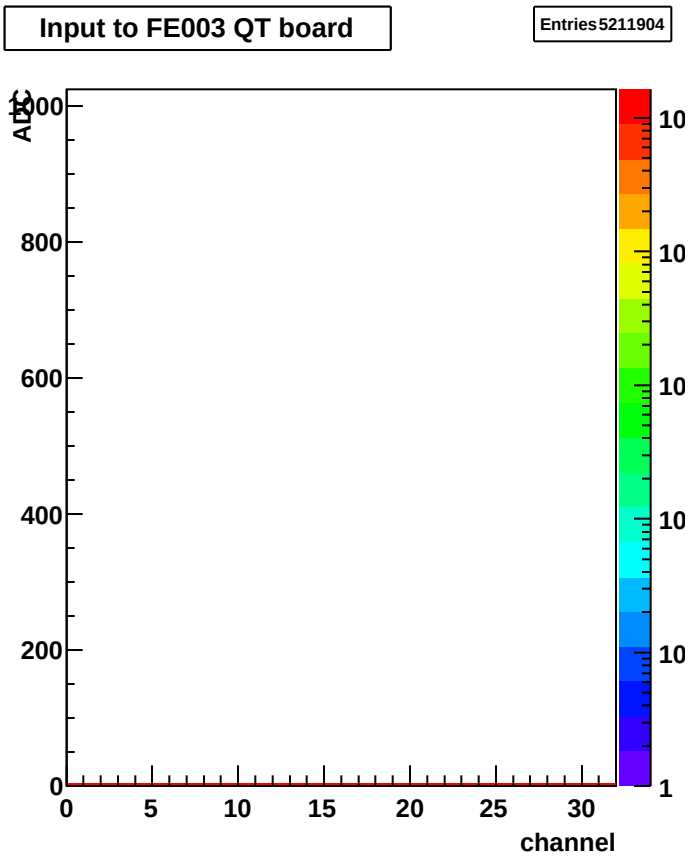

Input to FPD L2 DSM
Entries 488616
HT bits
1885
8467
3828
4079
9712
3723
1976
147196
150682
157068
SMALL
LARGE-S
LARGE-N

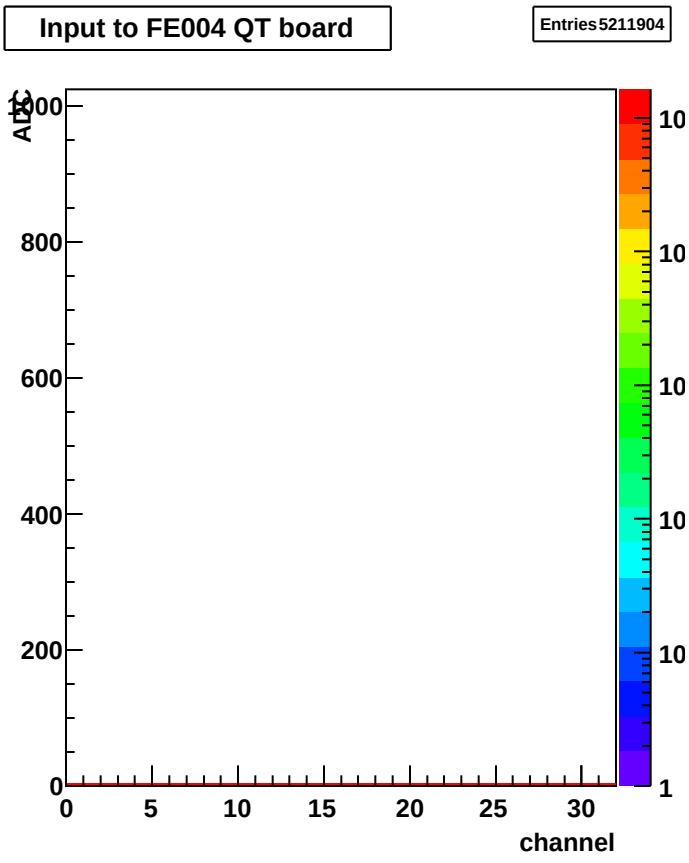

Input to FPD L2 DSM
Entries 90
HT bits - simulated
39
1
1
23
25
1
SMALL
LARGE-S
LARGE-N

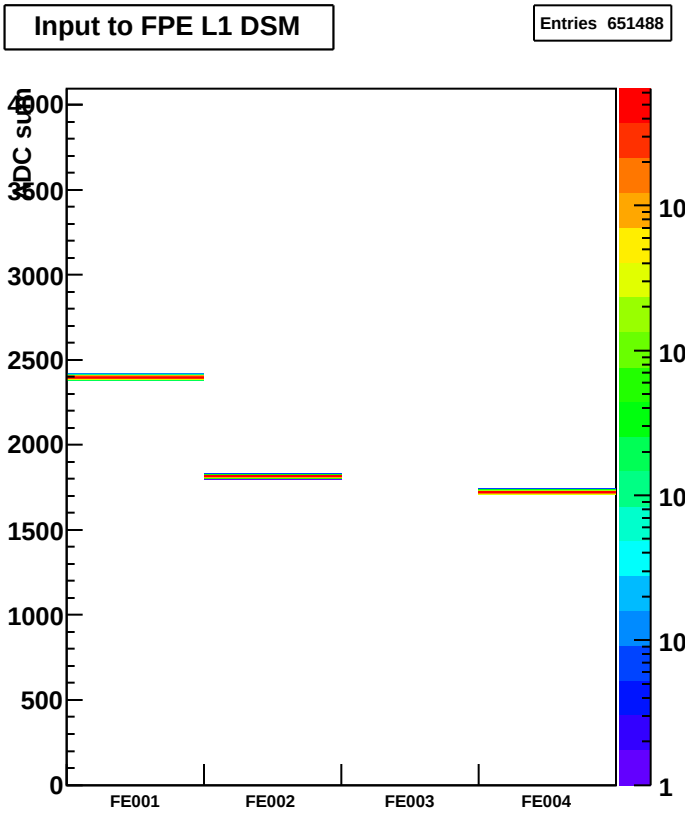

Input to FPD L2 DSM
Entries 977232
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

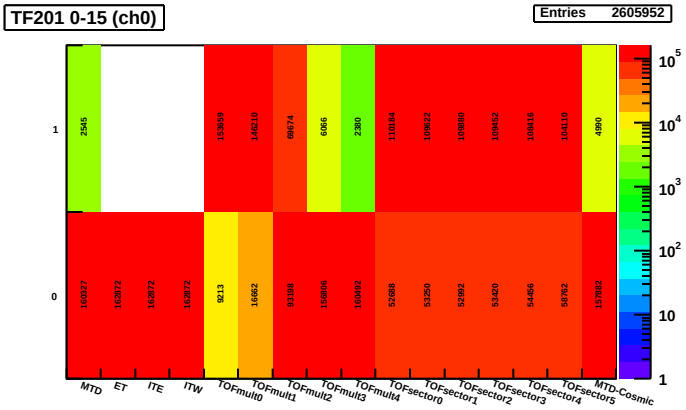

Input to FE001 QT board
Entries 5211904
ADC
channel

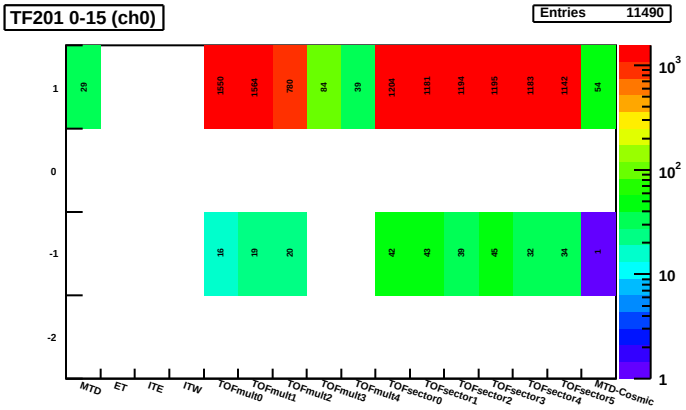

Input to FE002 QT board
Entries 5211904
ADC
channel

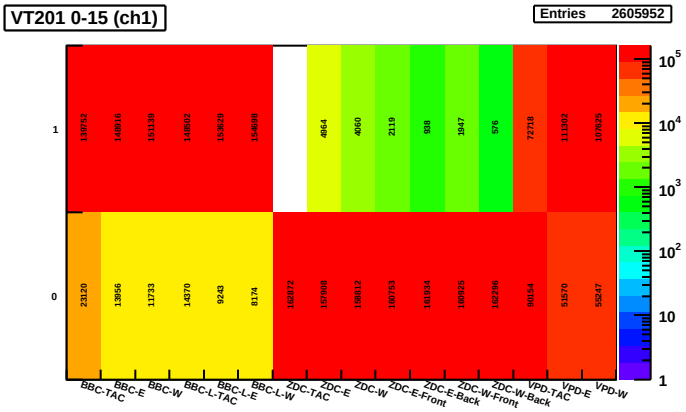

Input to FE003 QT board
Entries 5211904
ADC
channel

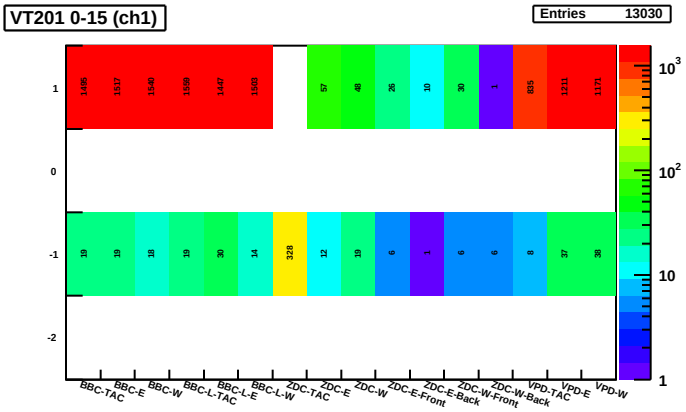

Input to FE004 QT board
Entries 5211904
ADC
channel

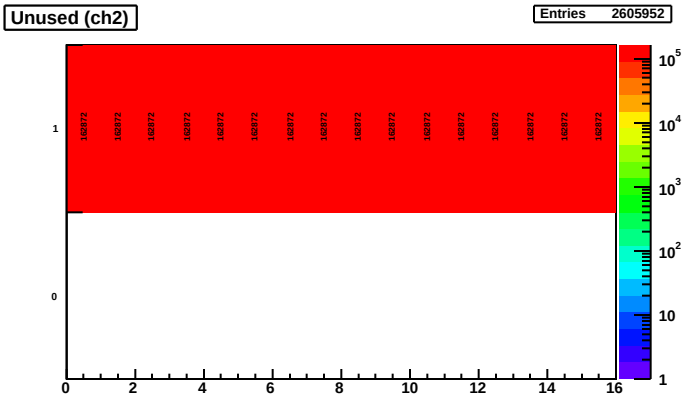

Input to FPE L1 DSM
Entries 651488
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

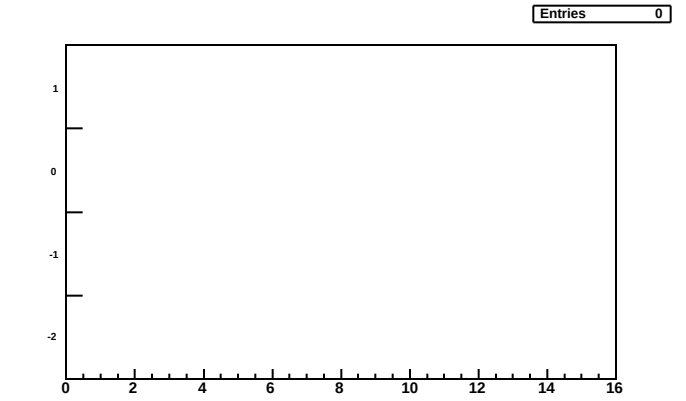

TF201 0-15 (ch0)
Entries 2605952
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

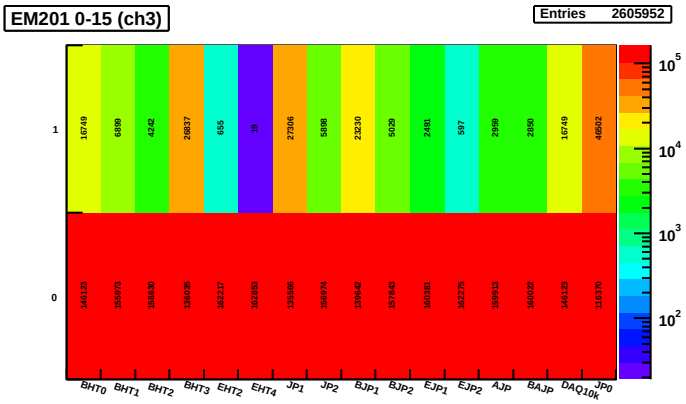

TF201 0-15 (ch0)
Entries 11490
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2605952
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 13030
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 2605952


Entries 0


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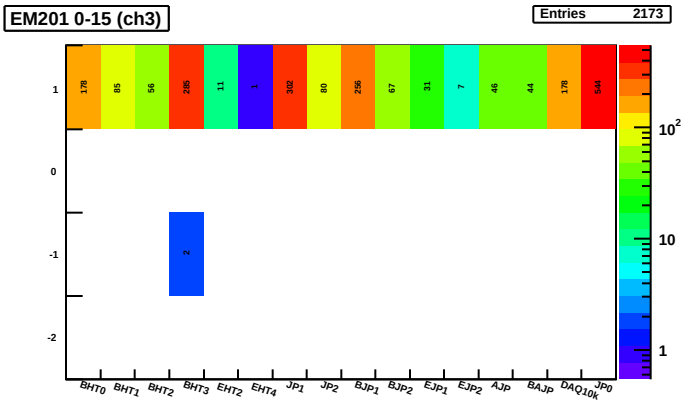
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 2173
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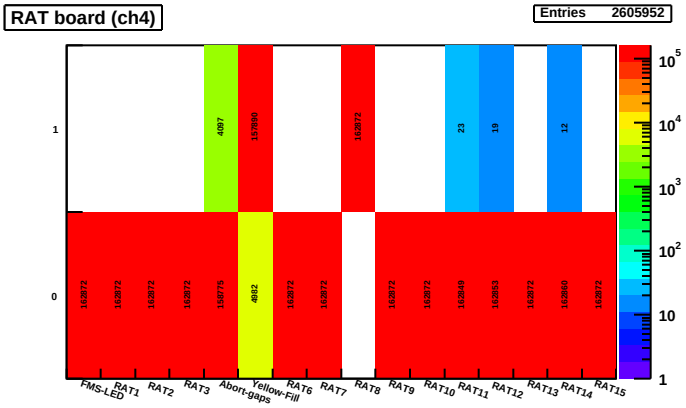
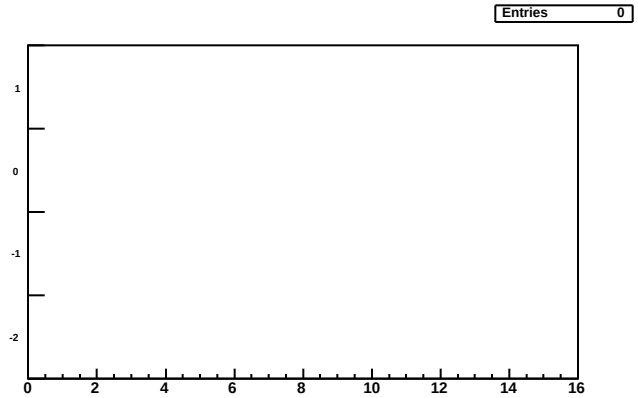
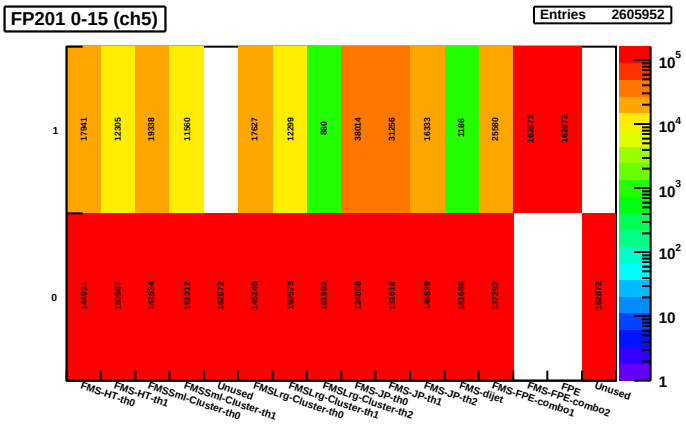
RAT board (ch4)

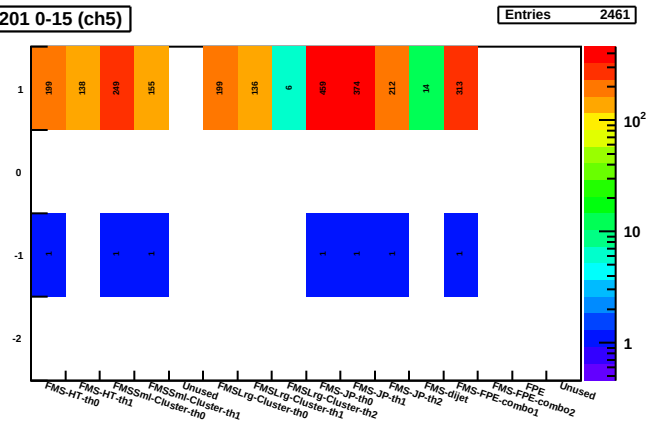




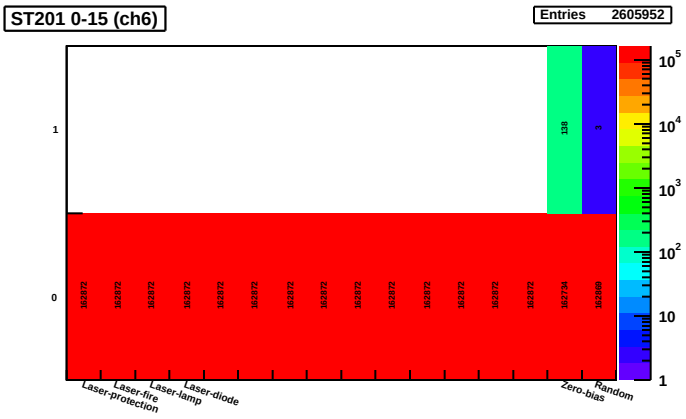
FP201 0-15 (ch5)

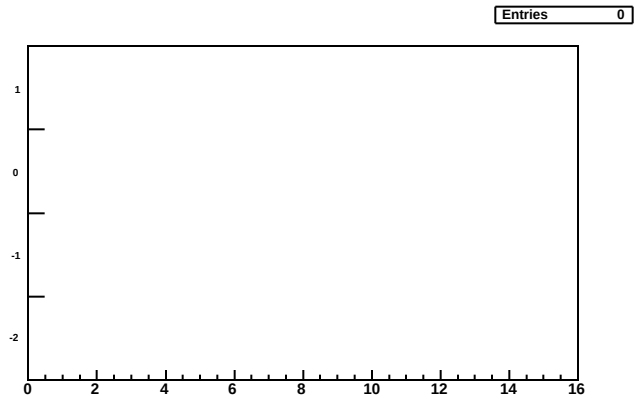
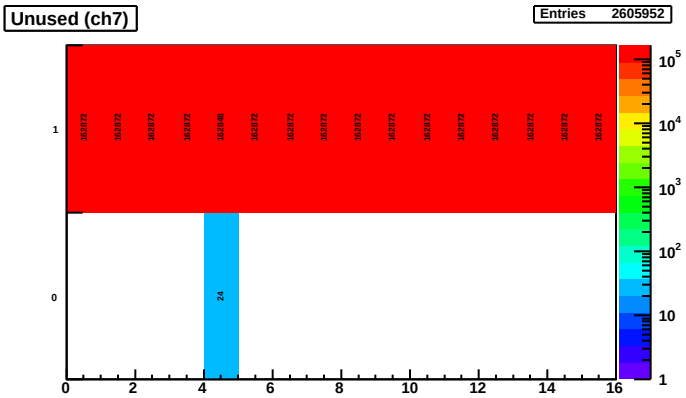
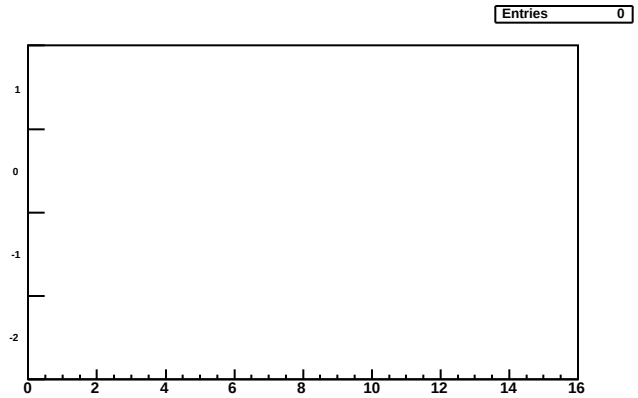


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)