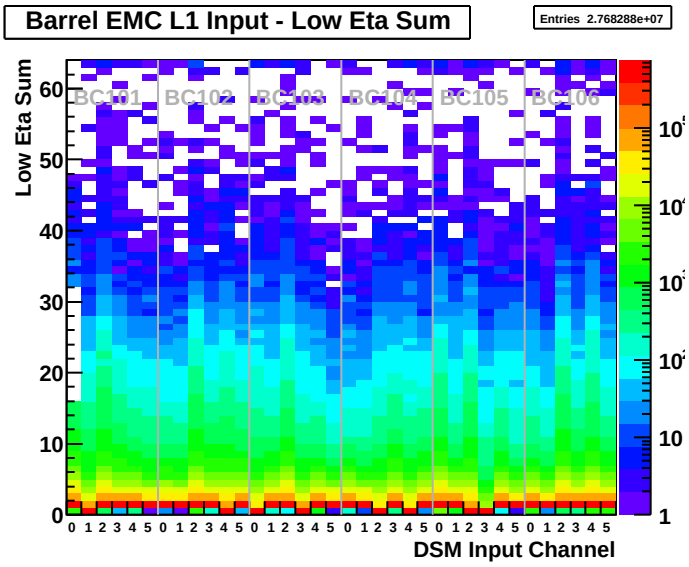
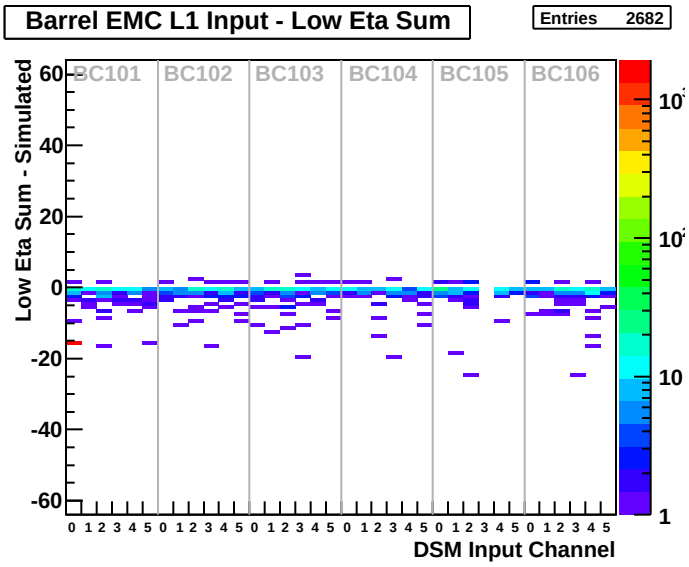
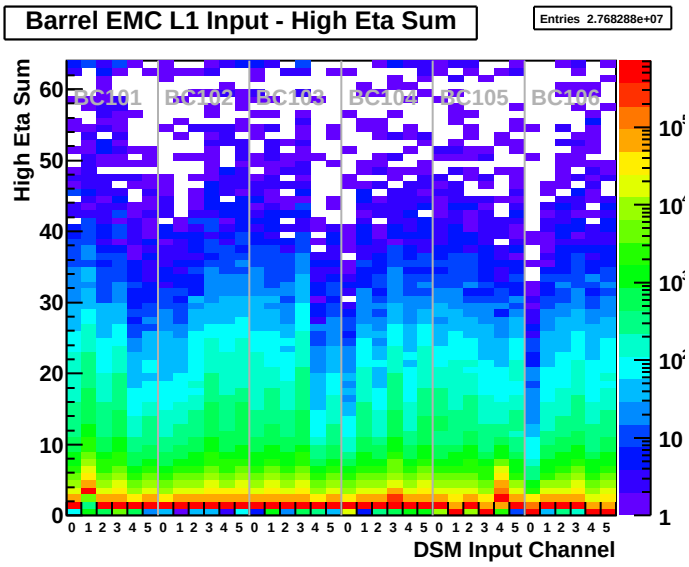
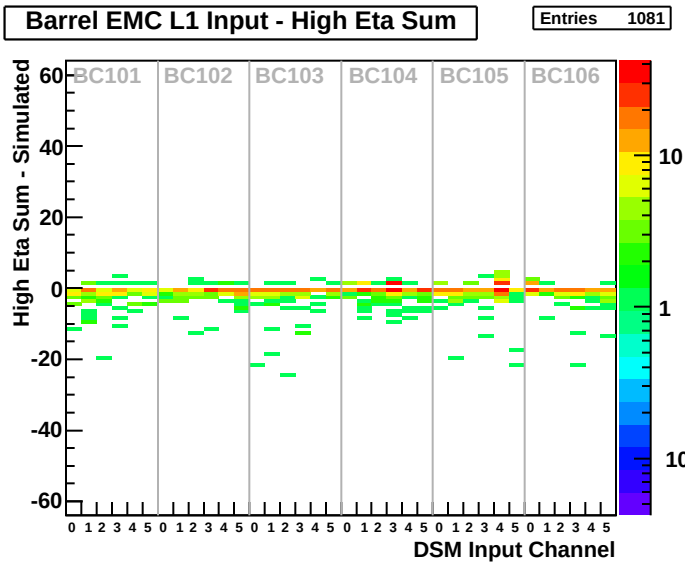
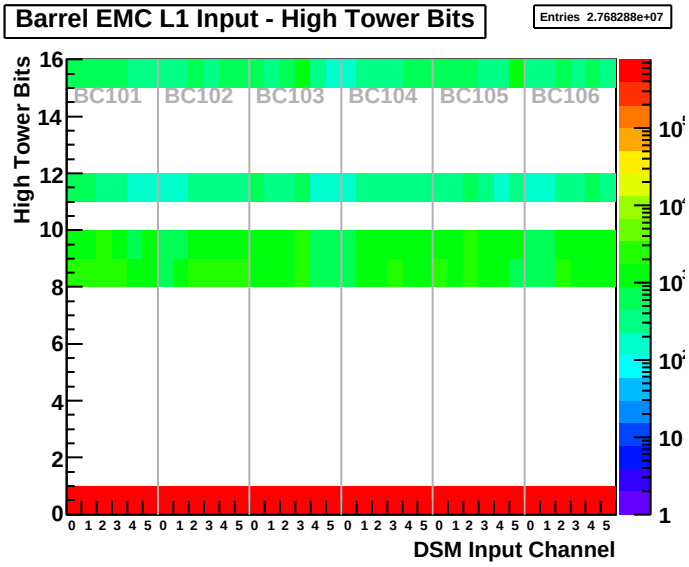
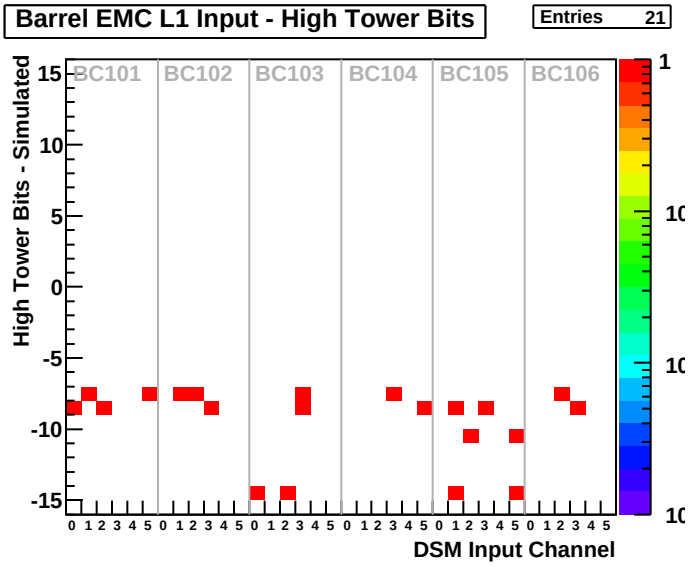

Barrel EMC L1 Input - Low Eta Sum
Entries 2.768288e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

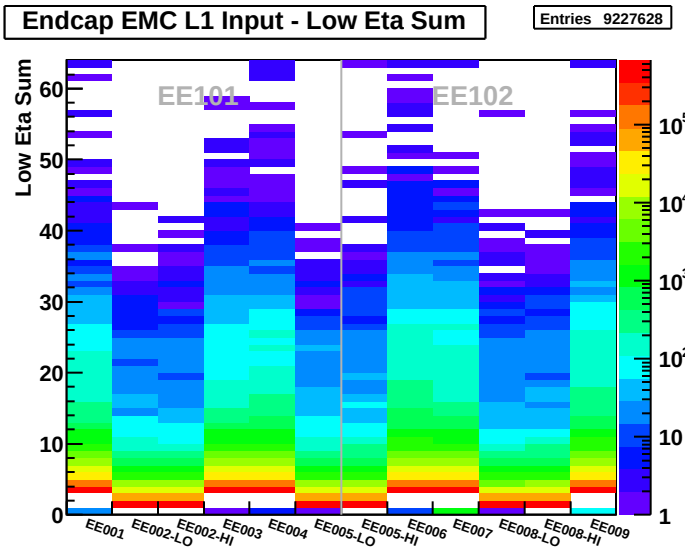

Barrel EMC L1 Input - Low Eta Sum
Entries 2682
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

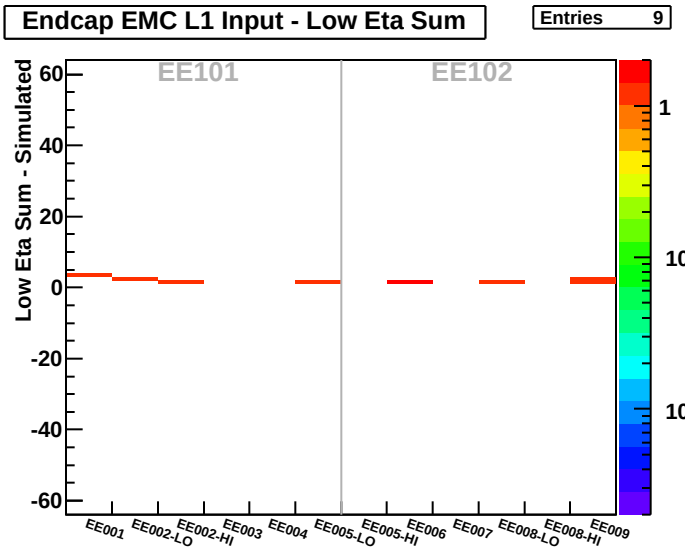

Barrel EMC L1 Input - High Eta Sum
Entries 2.768288e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

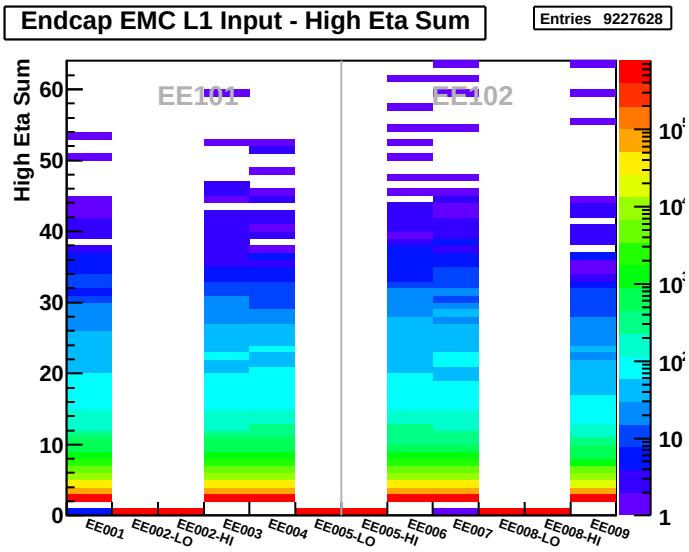

Barrel EMC L1 Input - High Eta Sum
Entries 1081
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

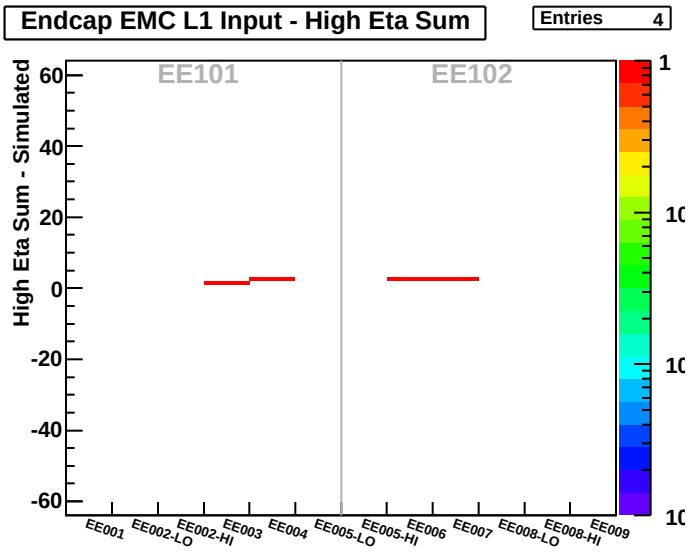

Barrel EMC L1 Input - High Tower Bits
Entries 2.768288e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

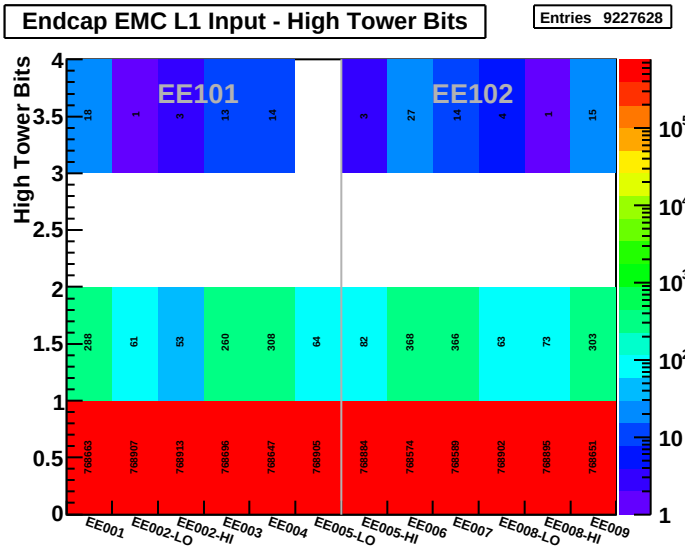

Barrel EMC L1 Input - High Tower Bits
Entries 21
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

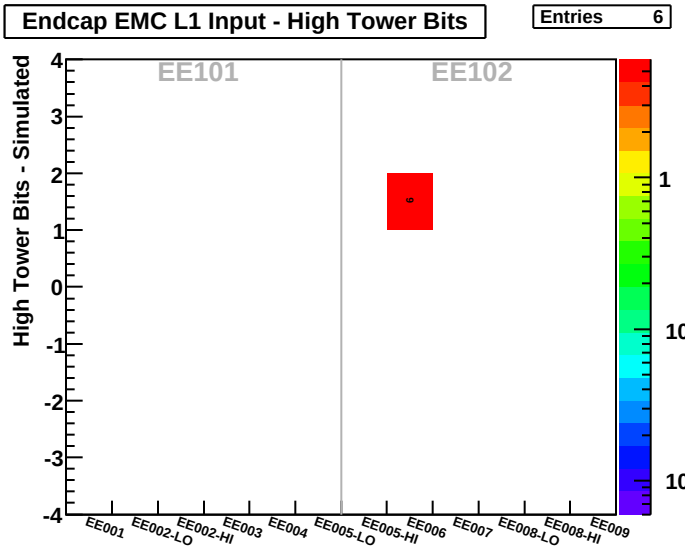

Endcap EMC L1 Input - Low Eta Sum
Entries 9227628
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

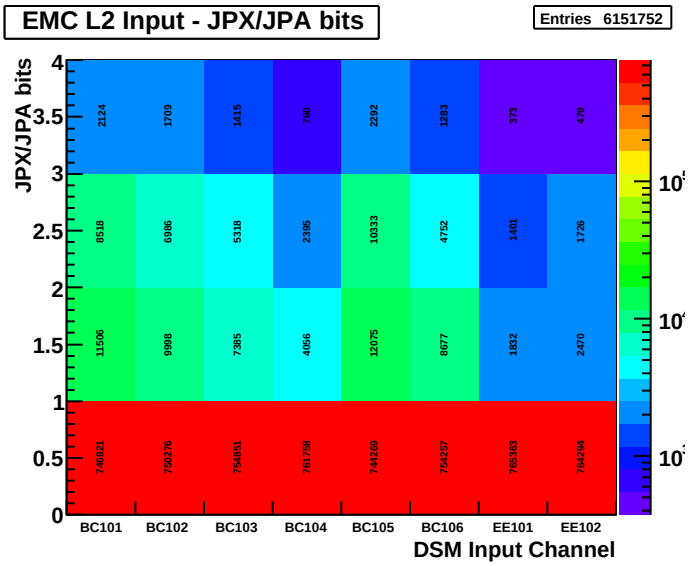

Endcap EMC L1 Input - Low Eta Sum
Entries 9
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

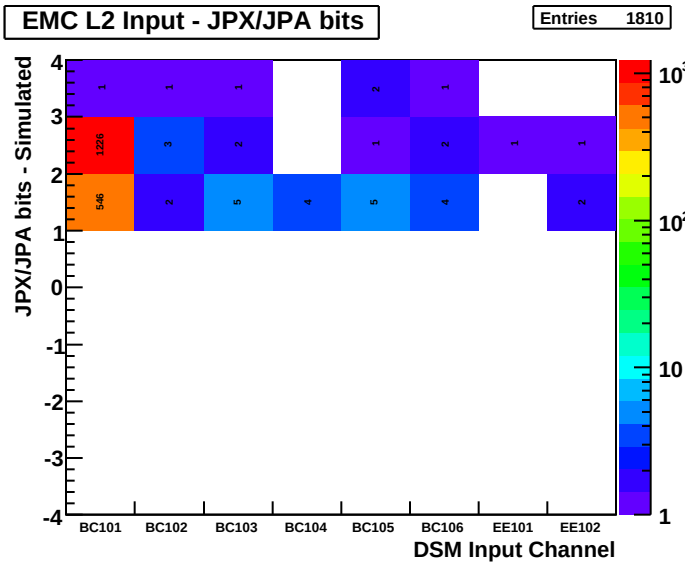

Endcap EMC L1 Input - High Eta Sum
Entries 9227628
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

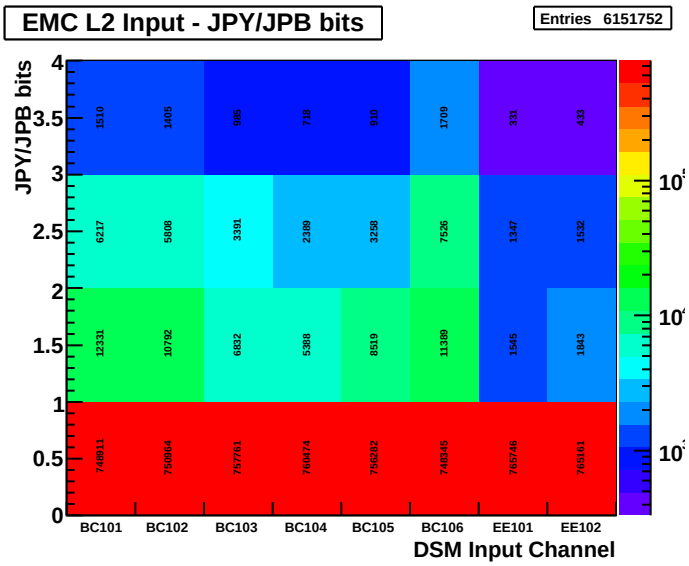

Endcap EMC L1 Input - High Eta Sum
Entries 4
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

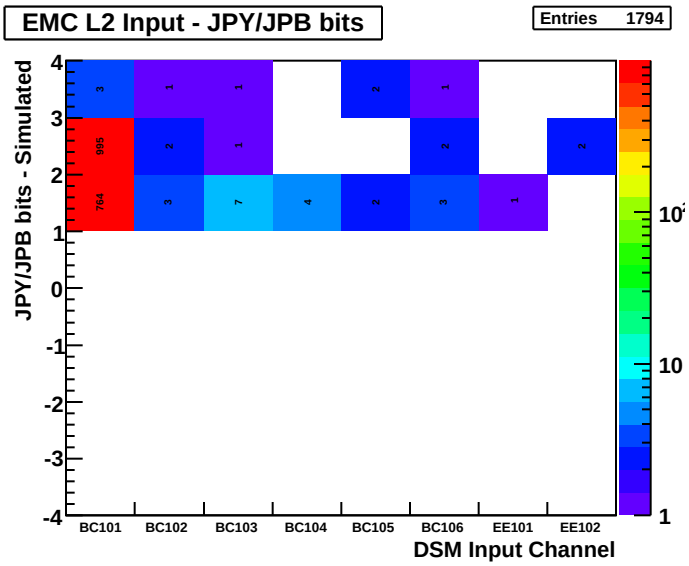

Endcap EMC L1 Input - High Tower Bits
Entries 9227628
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

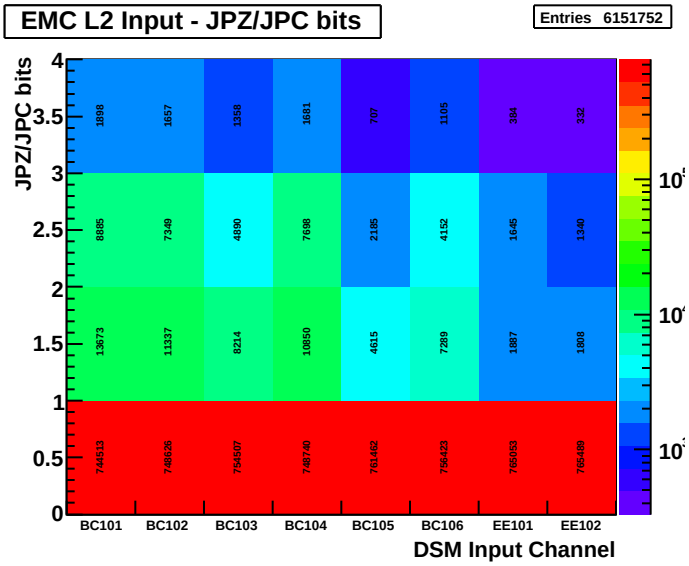

Endcap EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

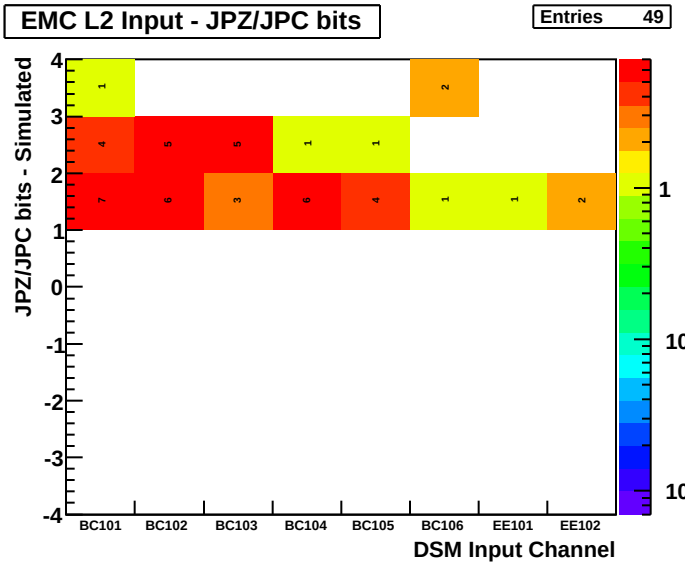

EMC L2 Input - JPX/JPA bits
Entries 6151752
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2124 1709 1415 760 2292 1283 373 479
8518 6986 5318 2395 10333 4752 1401 1726
11506 9998 7385 4056 12075 8677 1832 2470
746821 750276 754851 761758 744269 754257 765363 764294

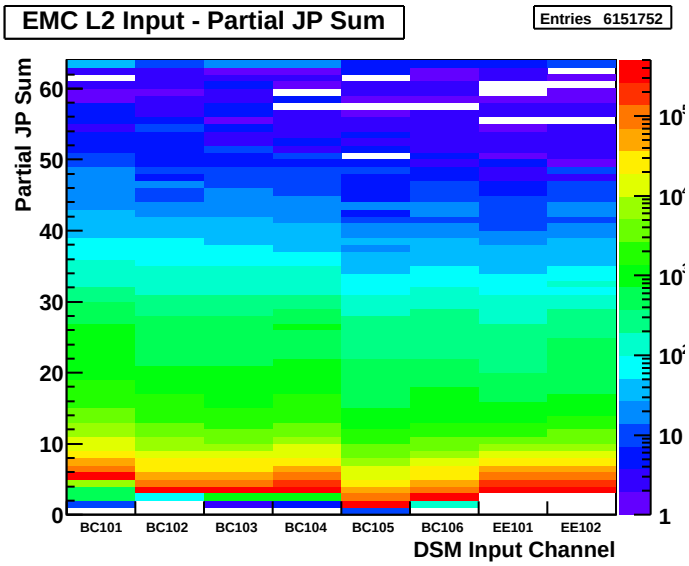

EMC L2 Input - JPX/JPA bits
Entries 1810
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 2 1
1226 3 2 1 2 1 1
546 2 5 4 5 4 2

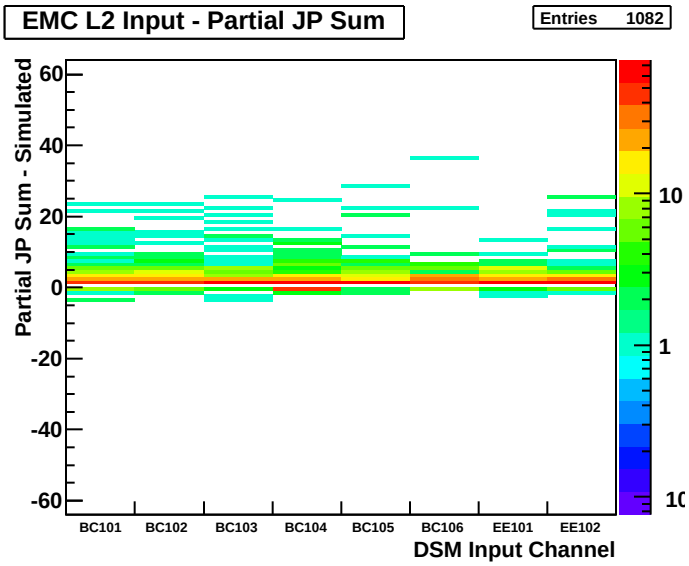

EMC L2 Input - JPY/JPB bits
Entries 6151752
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1510 1405 985 718 910 1709 331 433
6217 5808 3391 2389 3258 7526 1347 1532
12331 10792 6832 5388 8519 11389 1545 1943
748911 750864 757761 760474 759282 749345 765746 765161

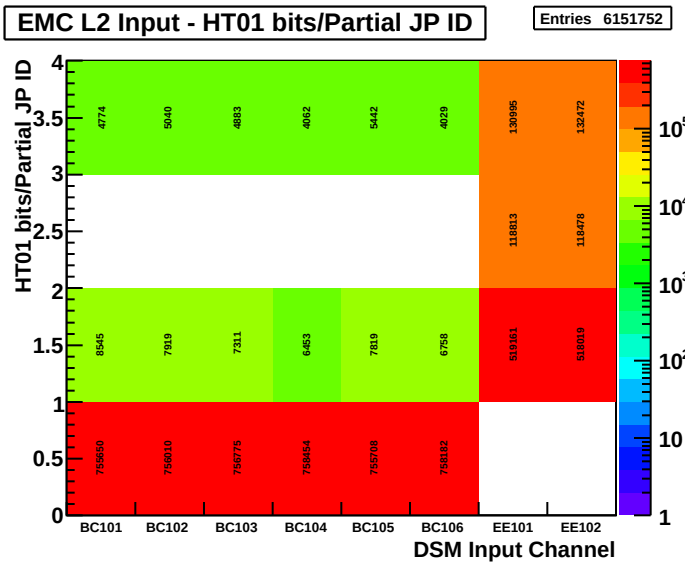

EMC L2 Input - JPY/JPB bits
Entries 1794
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 1 1 2 1
995 2 1 2 2
764 3 7 4 2 3 1

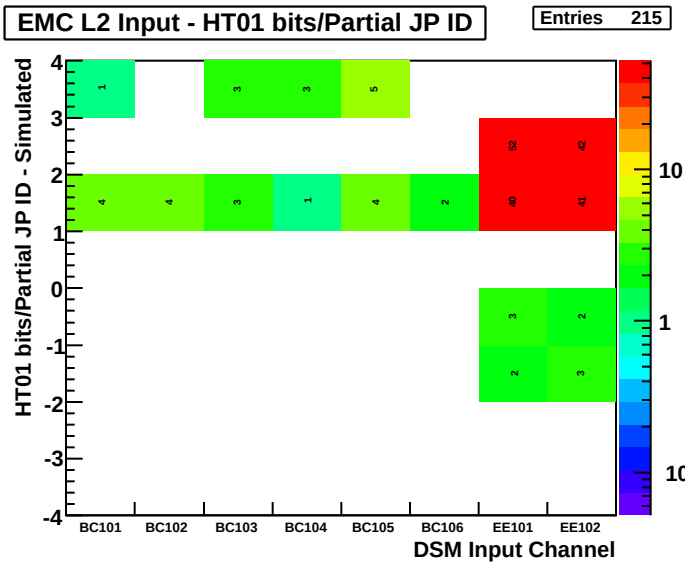

EMC L2 Input - JPZ/JPC bits
Entries 6151752
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1898 1657 1358 1681 707 1105 384 332
8885 7349 4890 7698 2185 4152 1645 1340
13673 11337 8214 10850 4615 7289 1887 1808
744513 748626 754507 748740 761462 756423 765053 765489

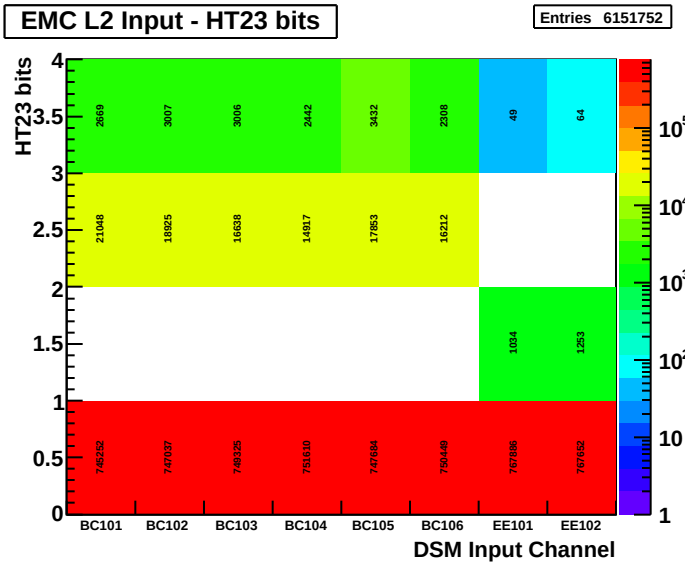

EMC L2 Input - JPZ/JPC bits
Entries 49
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 2
4 5 5 1 1
7 6 3 6 4 1 1 2

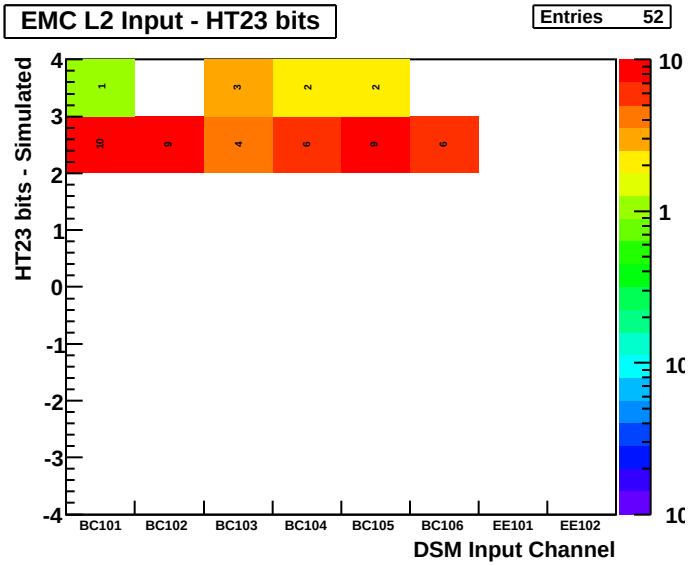

EMC L2 Input - Partial JP Sum
Entries 6151752
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

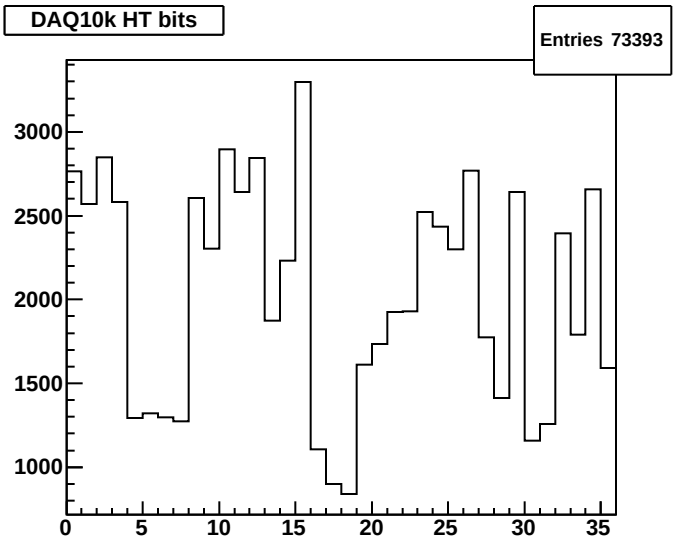

EMC L2 Input - Partial JP Sum
Entries 1082
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

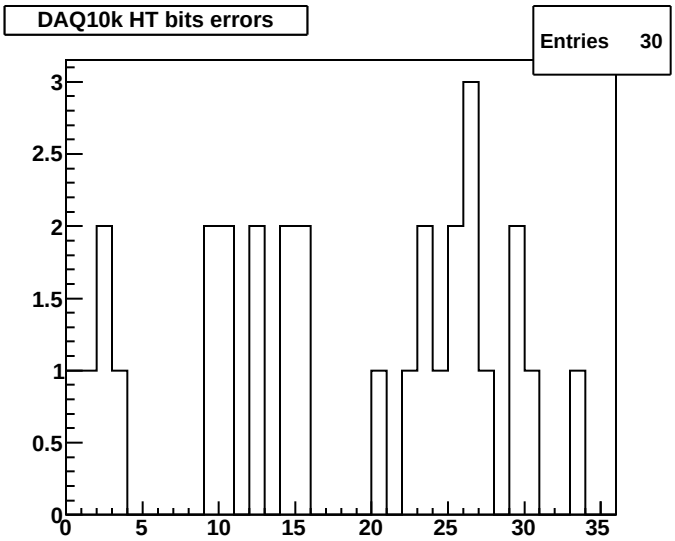

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6151752
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

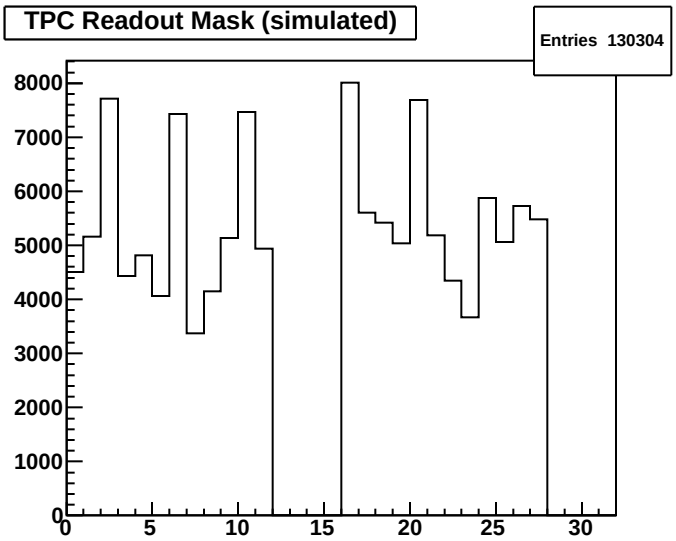

EMC L2 Input - HT01 bits/Partial JP ID
Entries 215
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

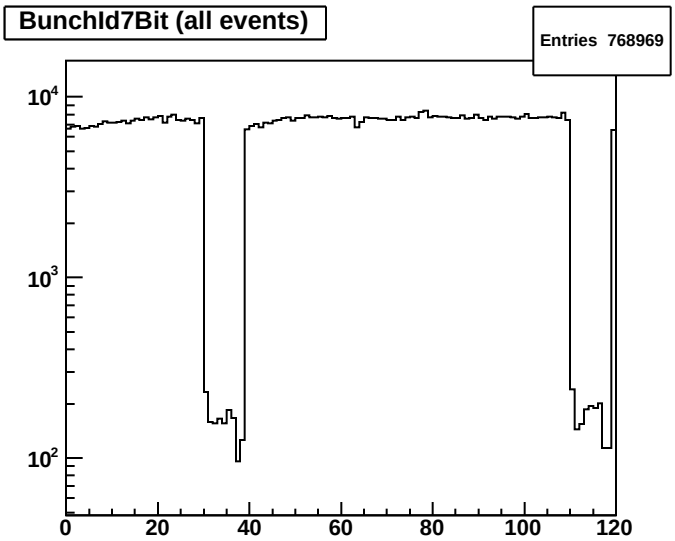

EMC L2 Input - HT23 bits
Entries 6151752
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

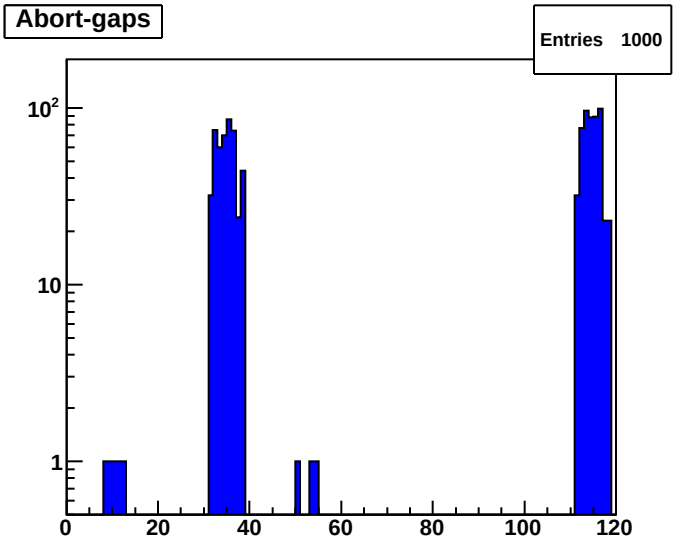

EMC L2 Input - HT23 bits
Entries 52
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

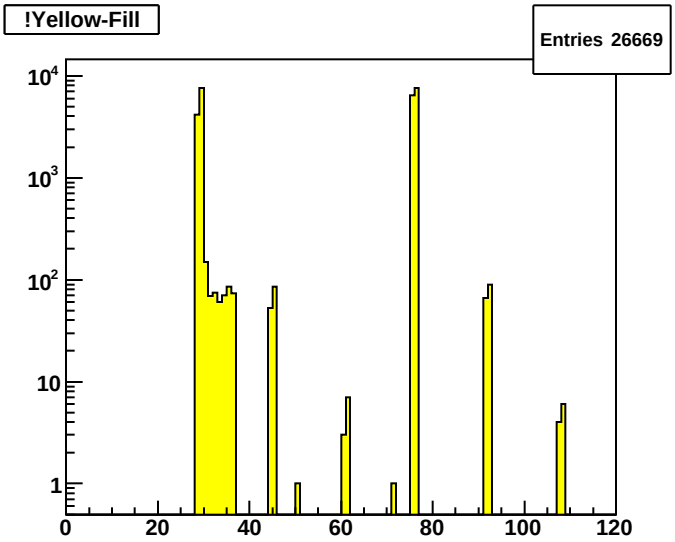

DAQ10k HT bits
Entries 73393

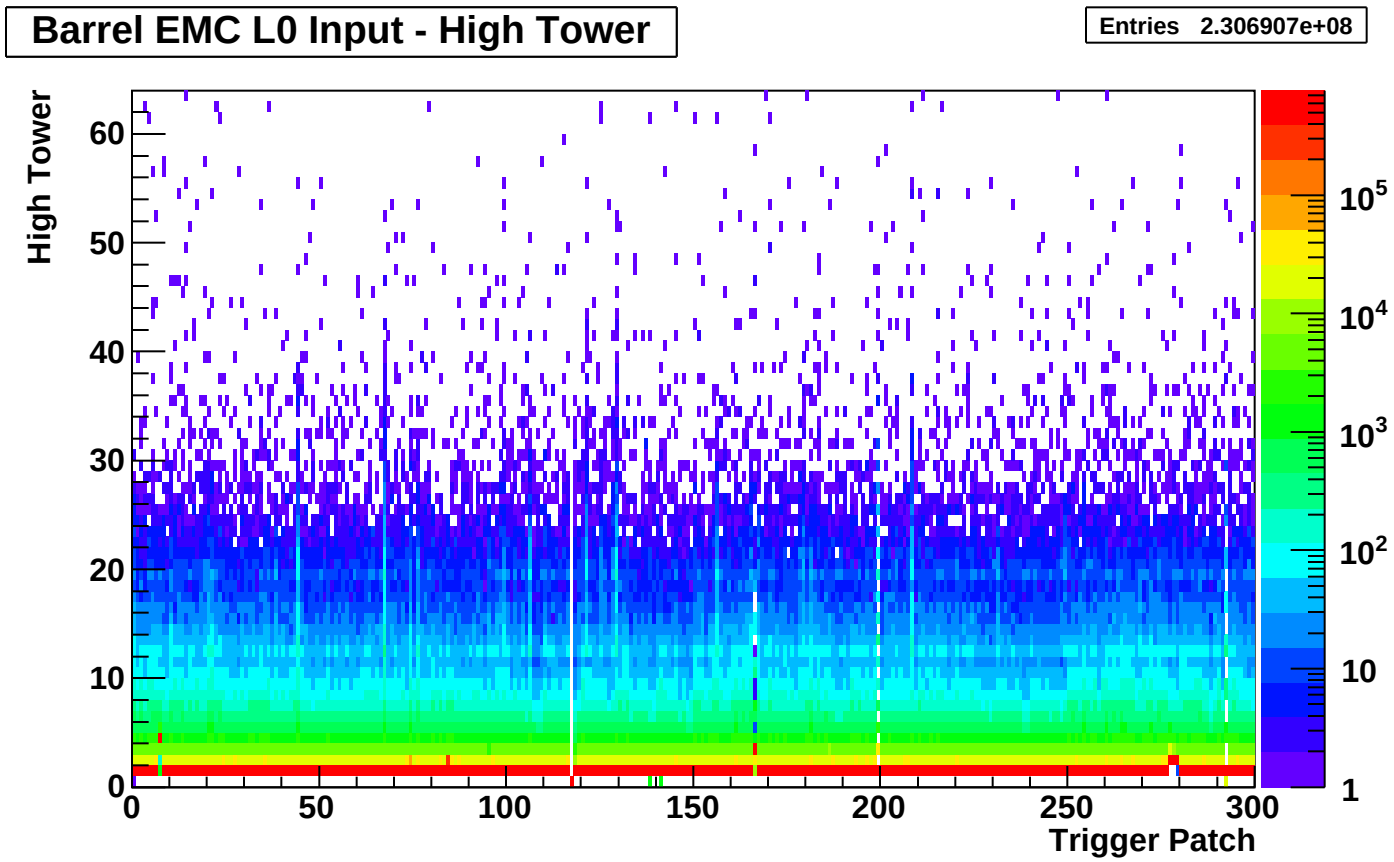

DAQ10k HT bits errors
Entries 30

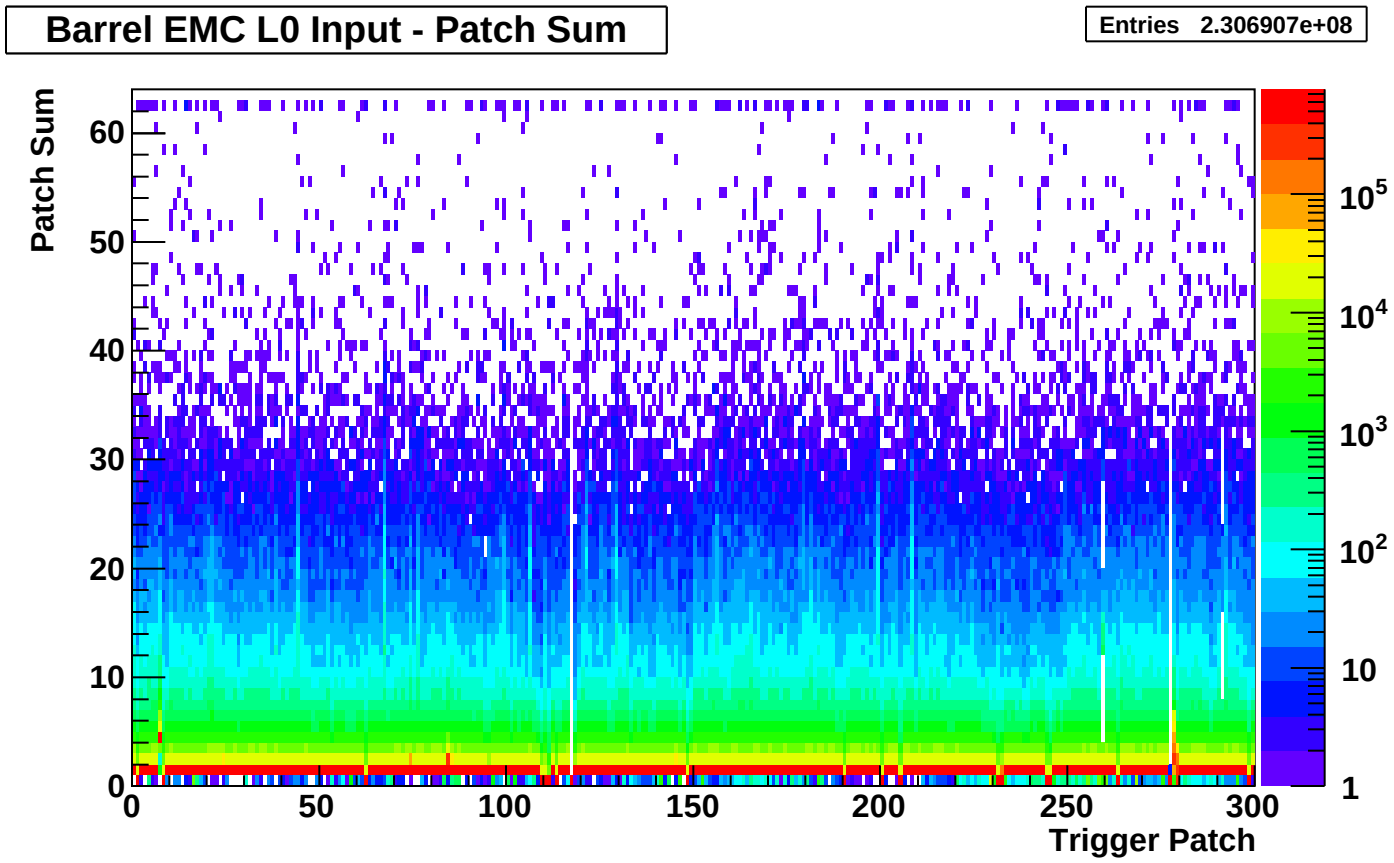

TPC Readout Mask (simulated)
Entries 130304

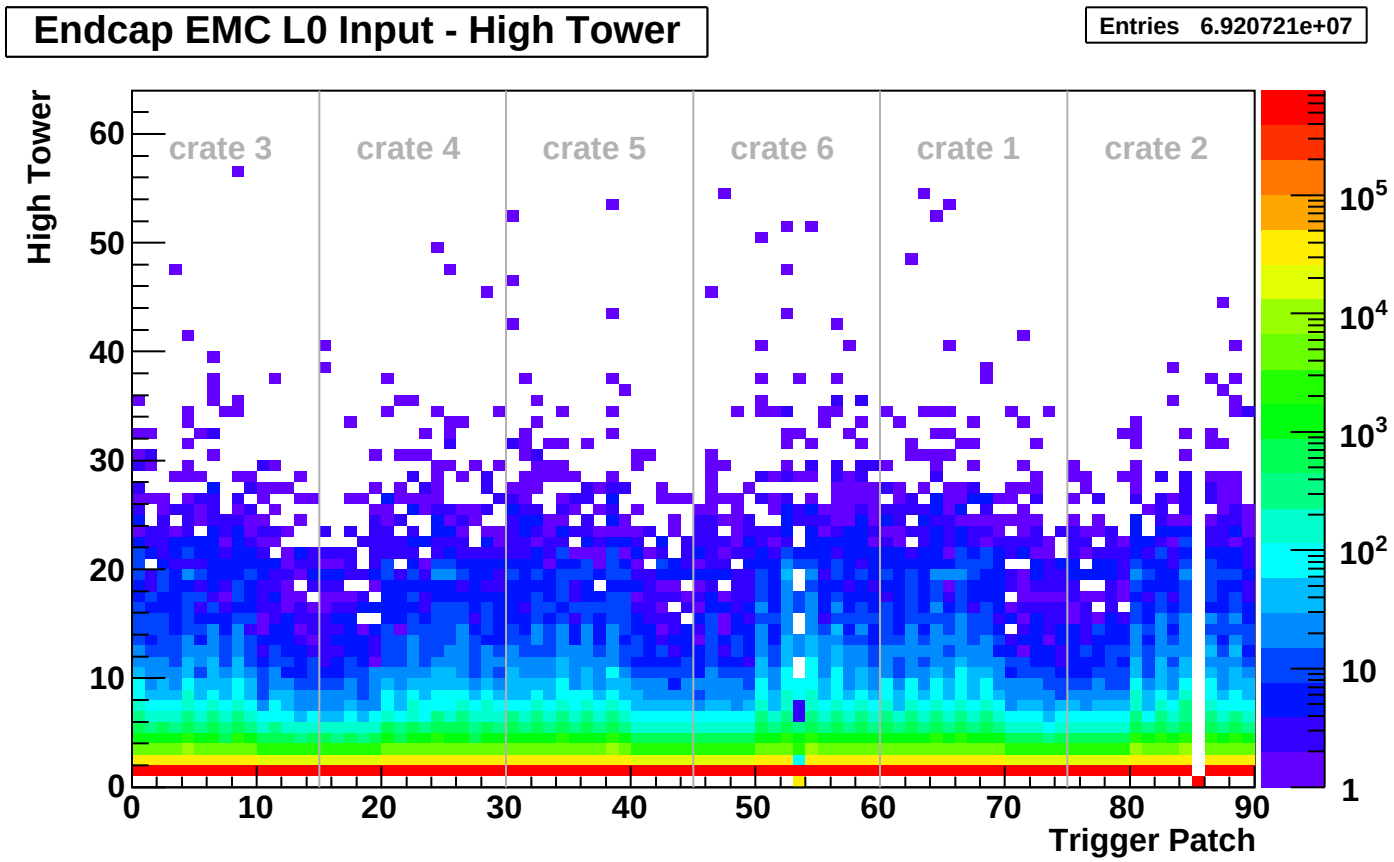

BunchId7Bit (all events)
Entries 768969

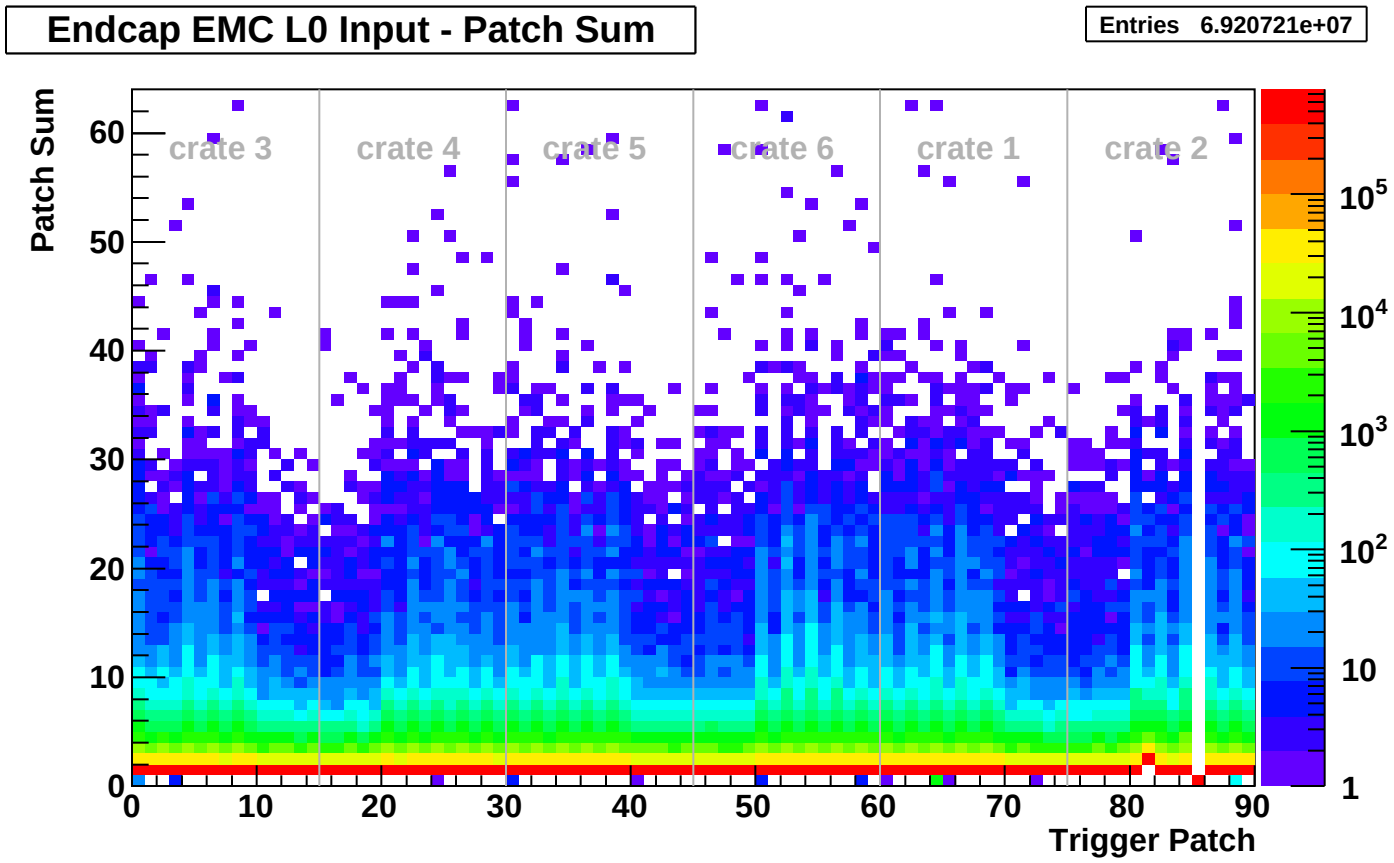

Abort-gaps
Entries 1000

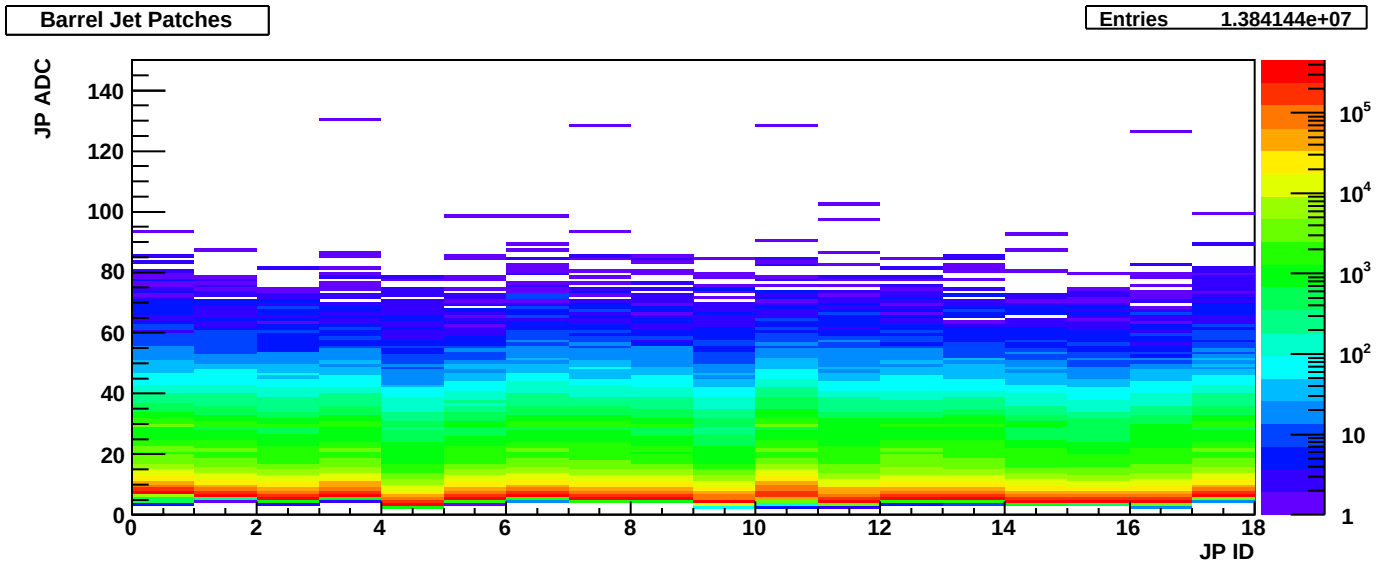

!Yellow-Fill
Entries 26669

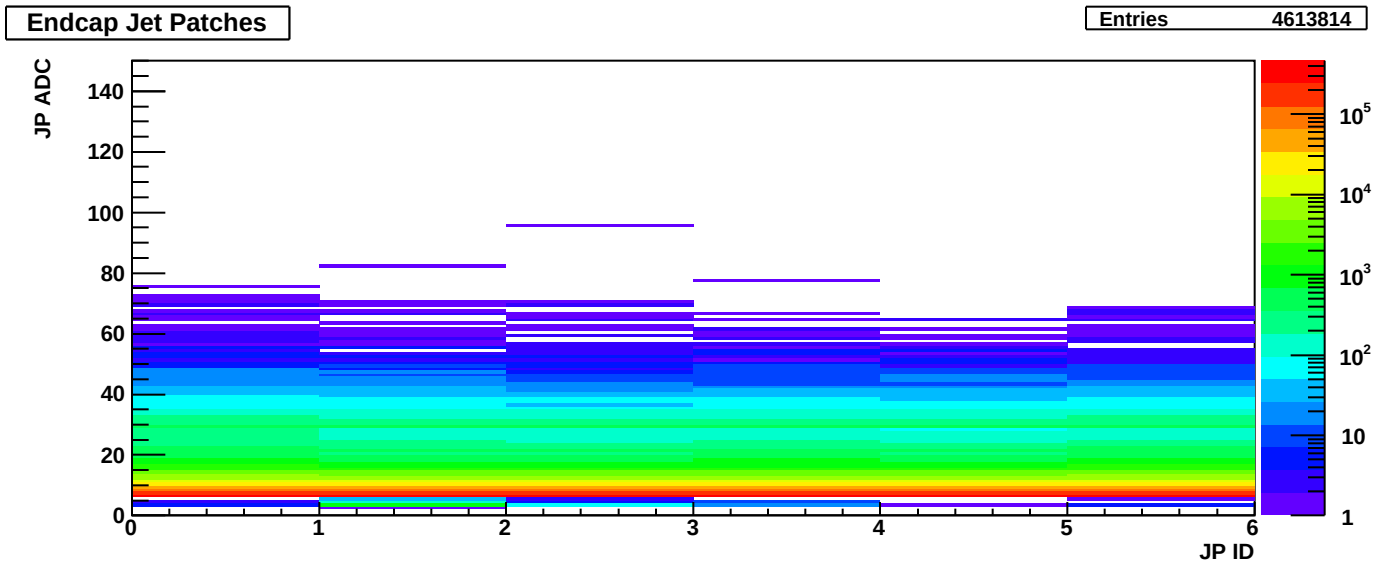

Barrel EMC L0 Input - High Tower
Entries 2.306907e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

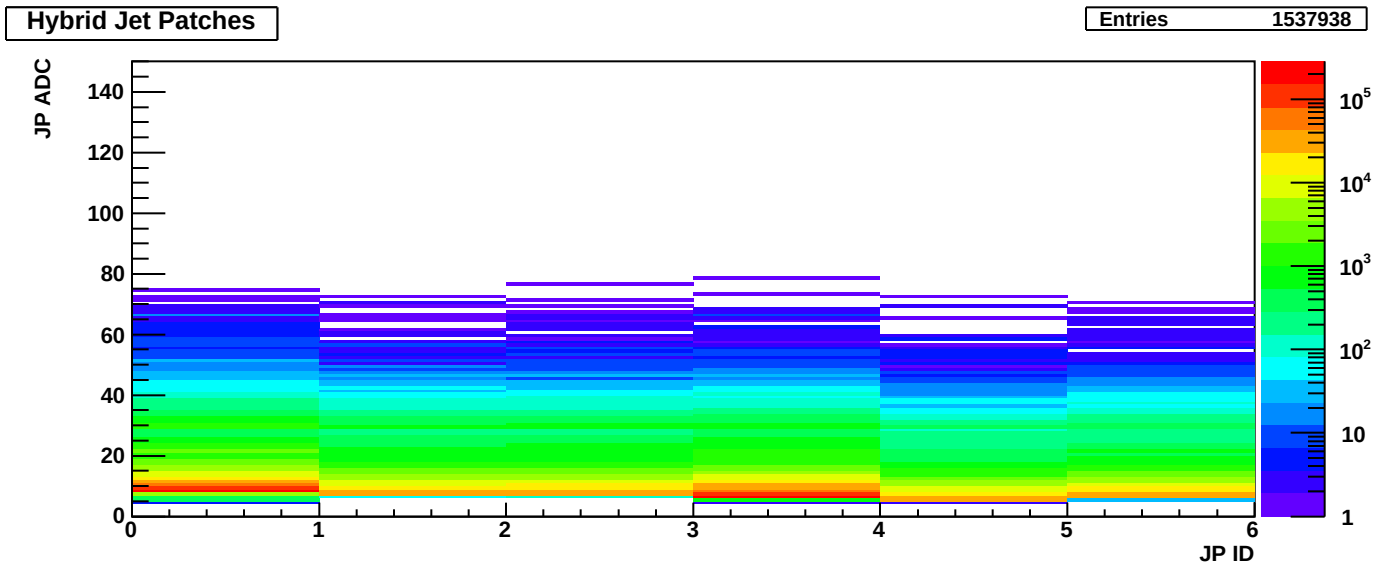

Barrel EMC L0 Input - Patch Sum
Entries 2.306907e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

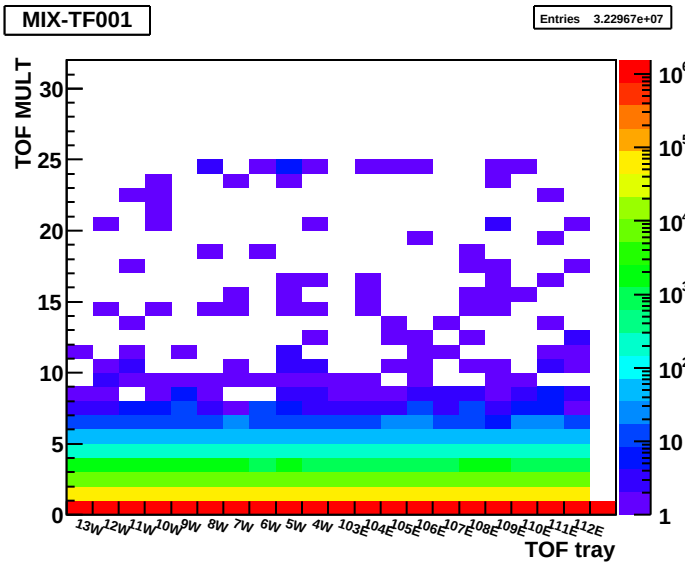

Endcap EMC L0 Input - High Tower
Entries 6.920721e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

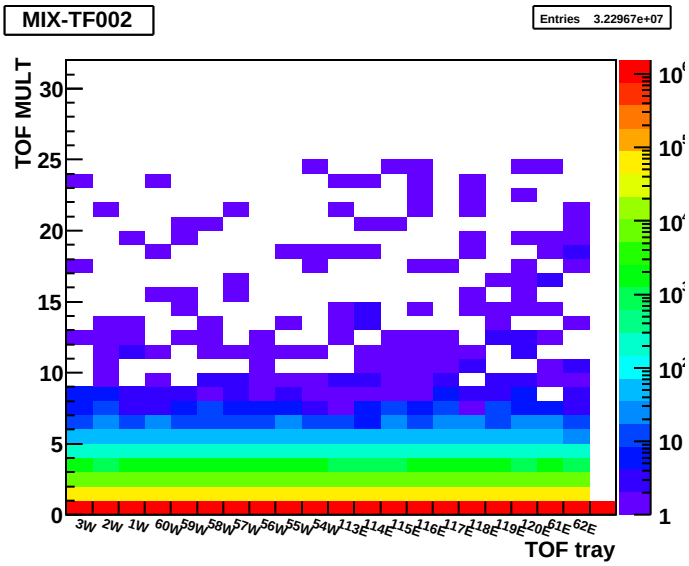

Endcap EMC L0 Input - Patch Sum
Entries 6.920721e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

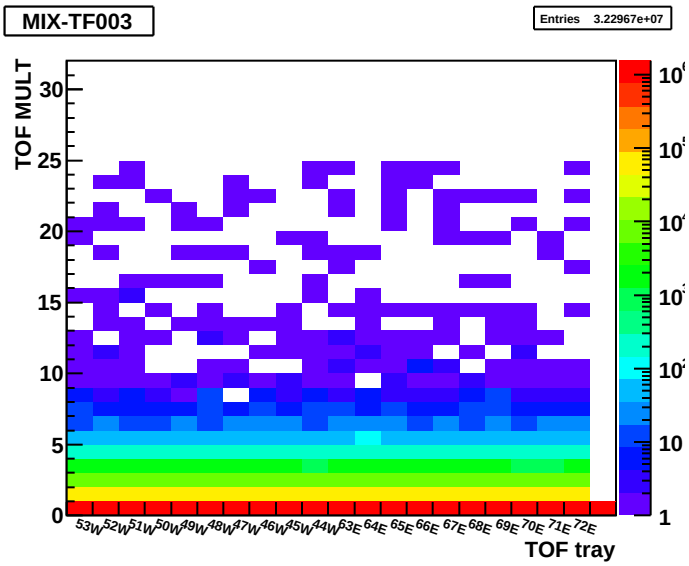

Barrel Jet Patches
Entries 1.384144e+07
JP ADC
JP ID

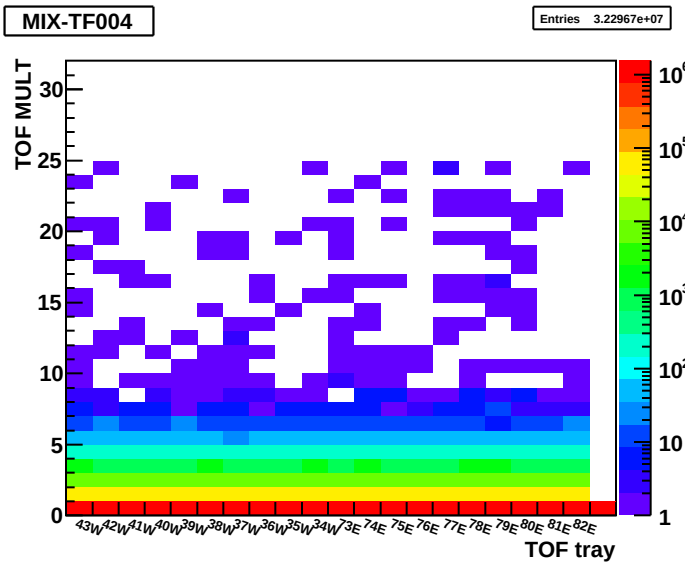

Endcap Jet Patches
Entries 4613814
JP ADC
JP ID

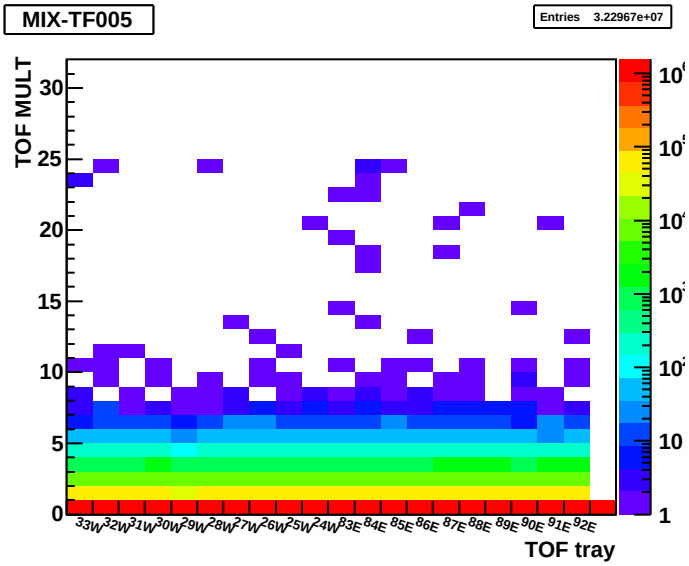

Hybrid Jet Patches
Entries 1537938
JP ADC
JP ID

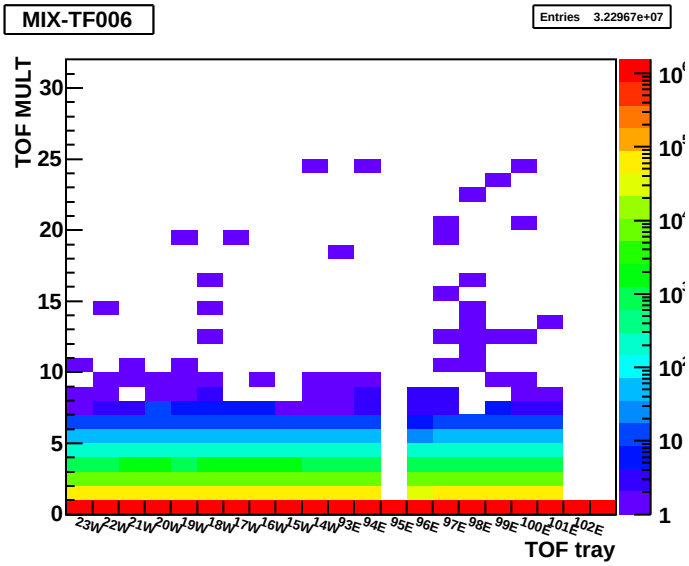

MIX-TF001
Entries 3.22967e+07
TOF MULT
TOF tray

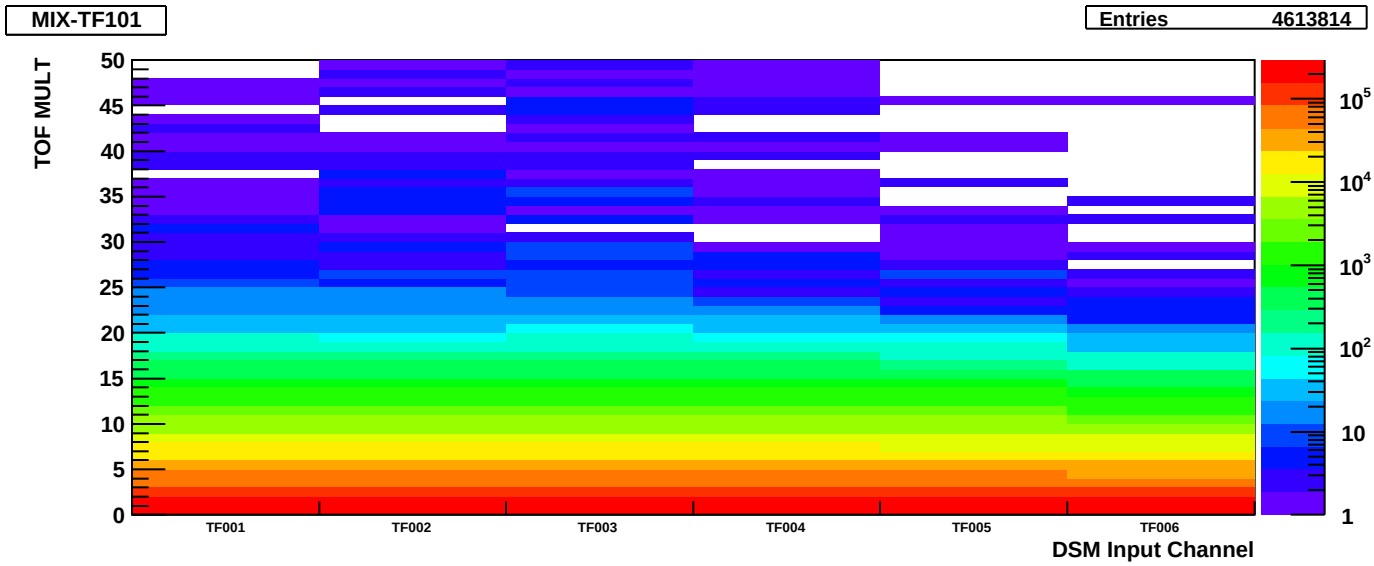

MIX-TF002
Entries 3.22967e+07
TOF MULT
TOF tray

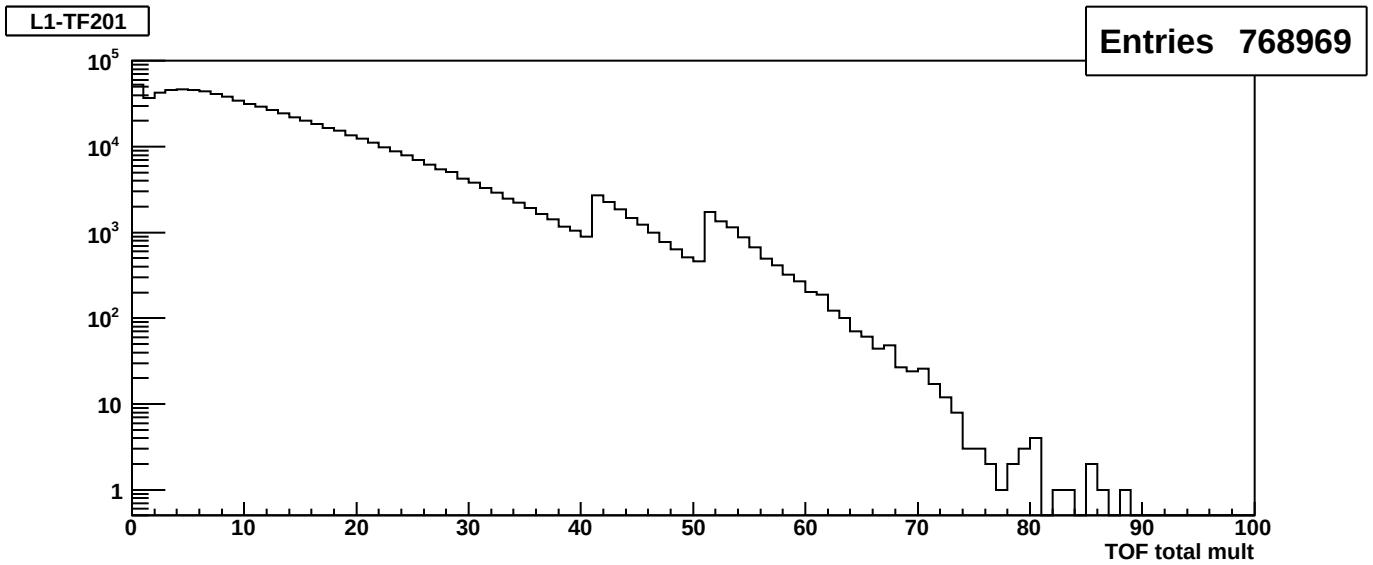

MIX-TF003
Entries 3.22967e+07
TOF MULT
TOF tray

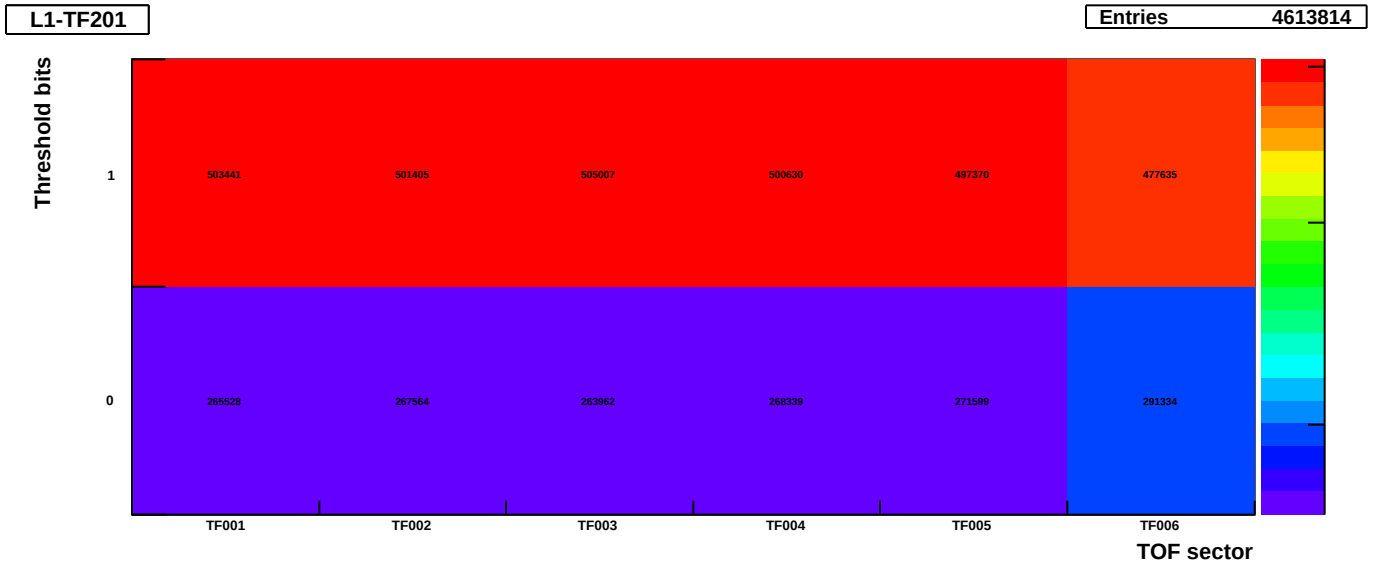

MIX-TF004
Entries 3.22967e+07
TOF MULT
TOF tray

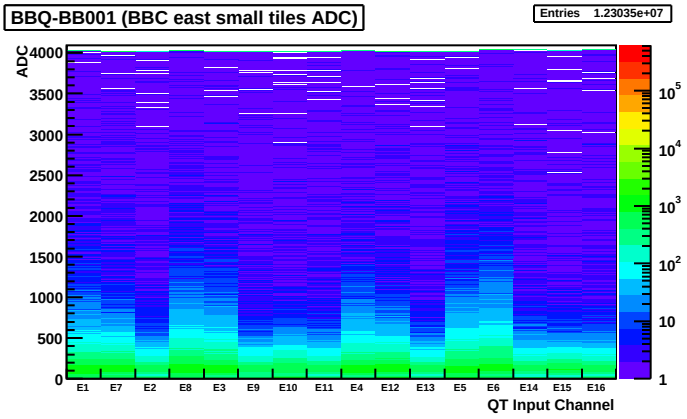

MIX-TF005
Entries 3.22967e+07
TOF MULT
TOF tray

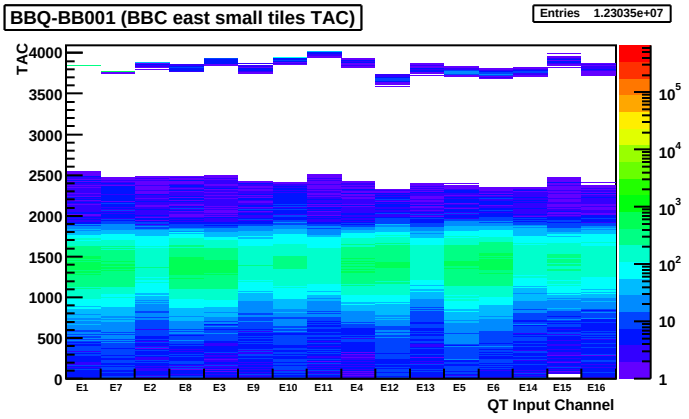

MIX-TF006
Entries 3.22967e+07
TOF MULT
TOF tray

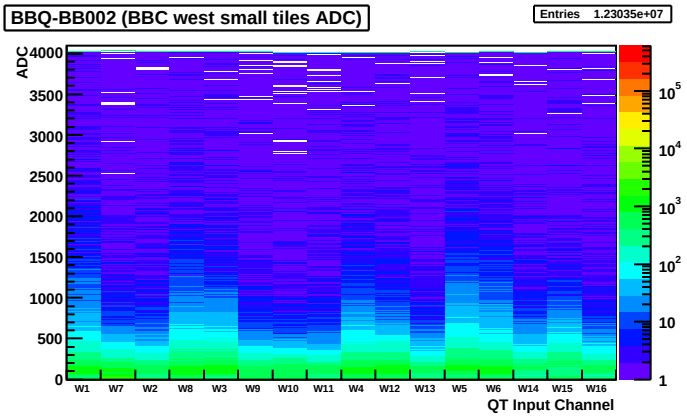

MIX-TF101
Entries 4613814
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

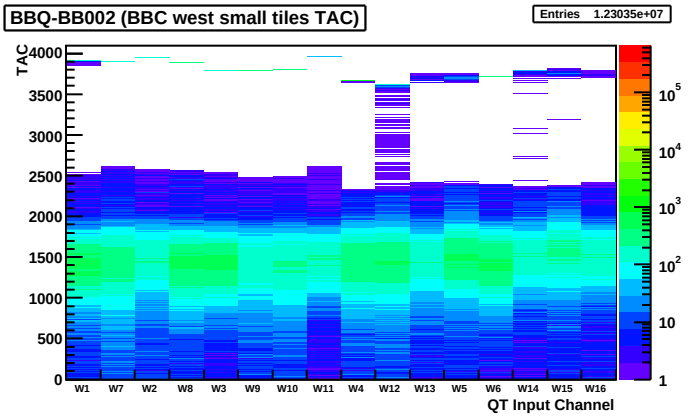

L1-TF201
Entries 768969
TOF total mult

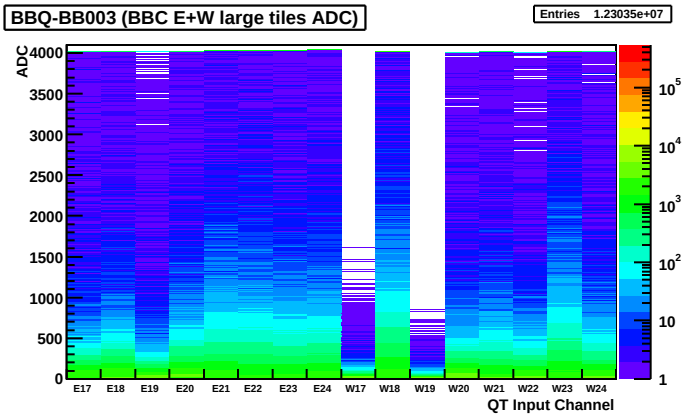

L1-TF201
Entries 4613814
Threshold bits
503441
501405
505007
500630
497370
477635
265528
267564
263962
268339
271599
291334
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

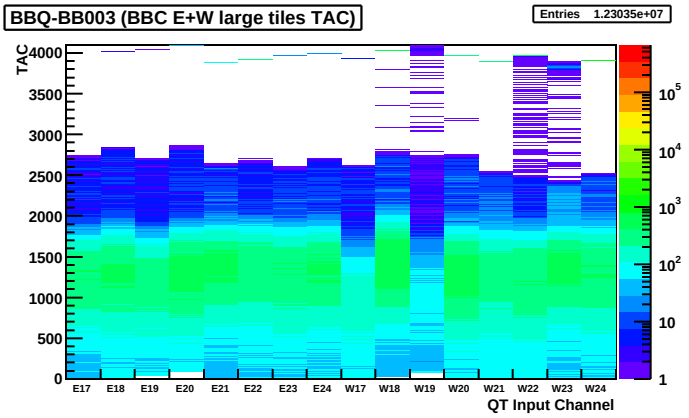

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.23035e+07
ADC
QT Input Channel

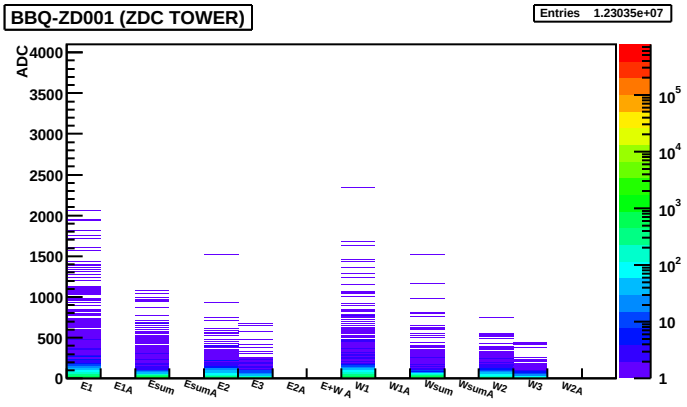

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.23035e+07
TAC
QT Input Channel

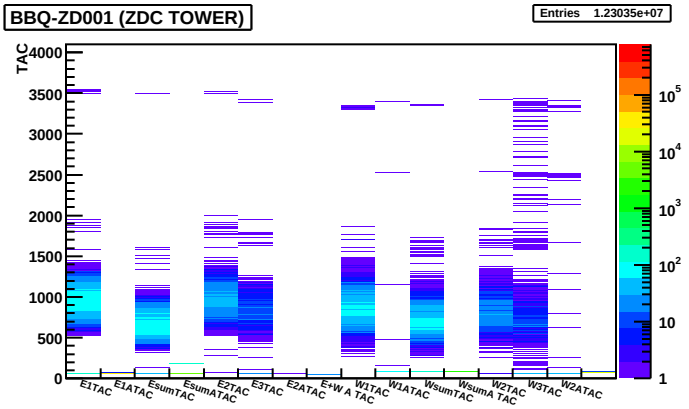

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.23035e+07
ADC
QT Input Channel

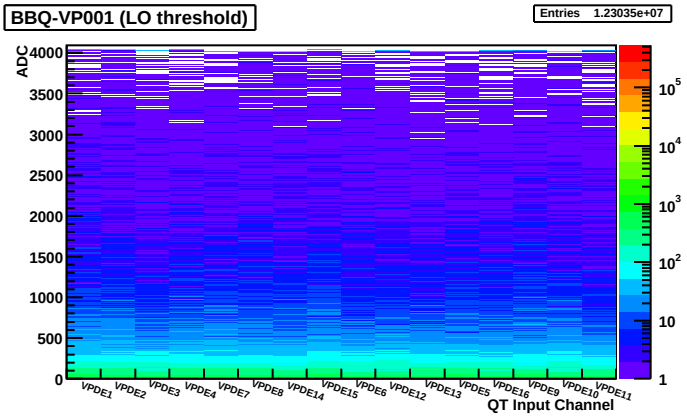

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.23035e+07
TAC
QT Input Channel

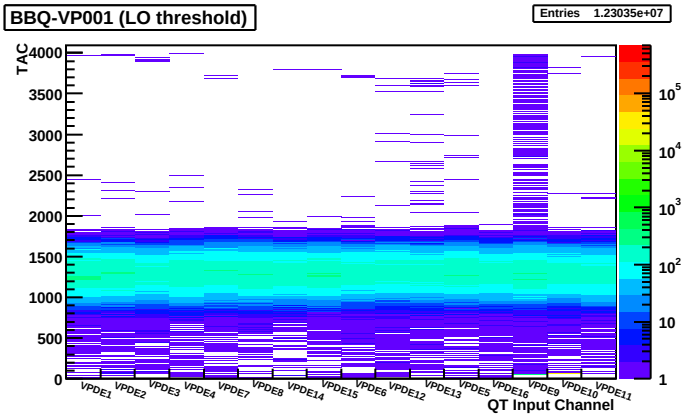

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.23035e+07
ADC
QT Input Channel

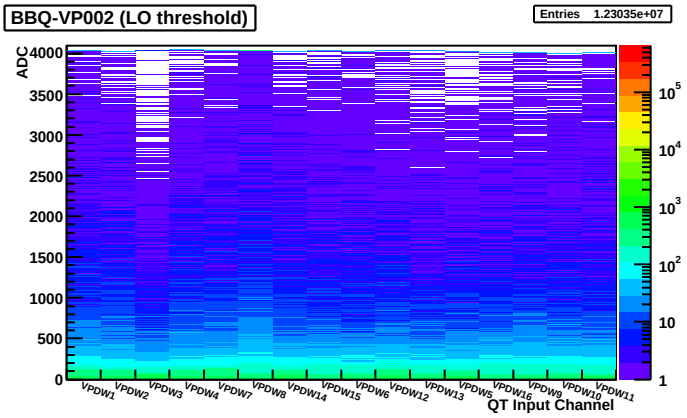

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.23035e+07
TAC
QT Input Channel

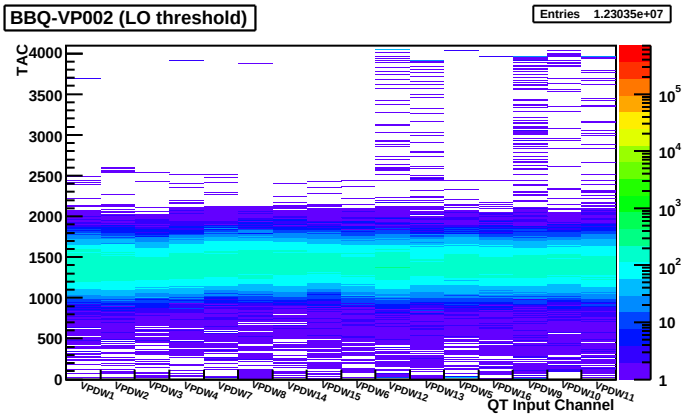

BBQ-ZD001 (ZDC TOWER)
Entries 1.23035e+07
ADC

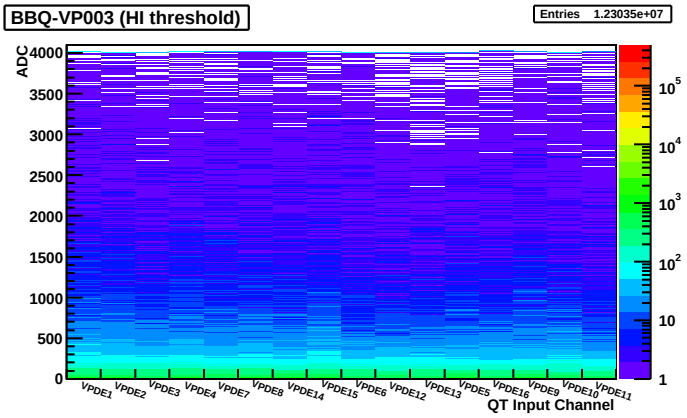

BBQ-ZD001 (ZDC TOWER)
Entries 1.23035e+07
TAC

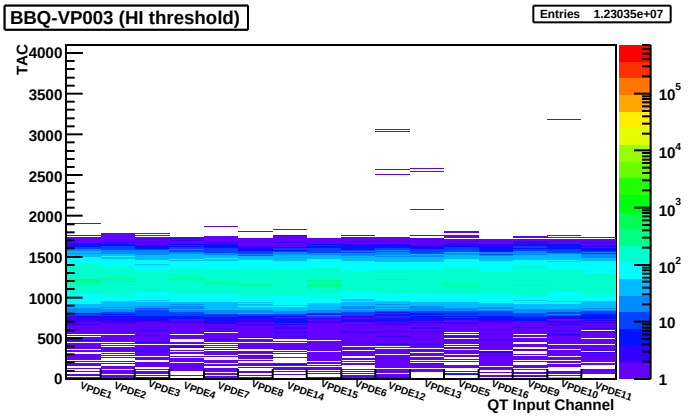

BBQ-VP001 (LO threshold)
Entries 1.23035e+07
ADC
QT Input Channel

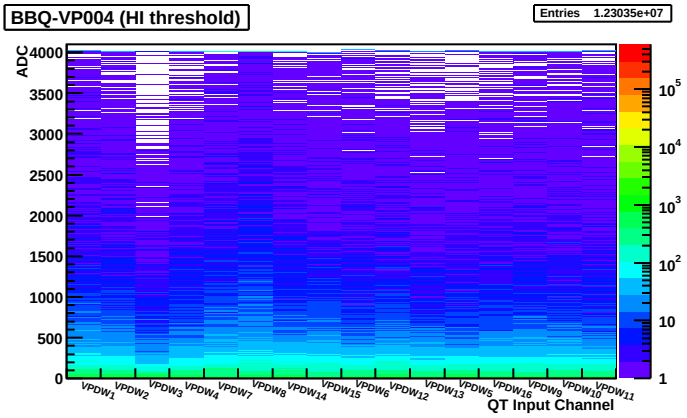

BBQ-VP001 (LO threshold)
Entries 1.23035e+07
TAC
QT Input Channel

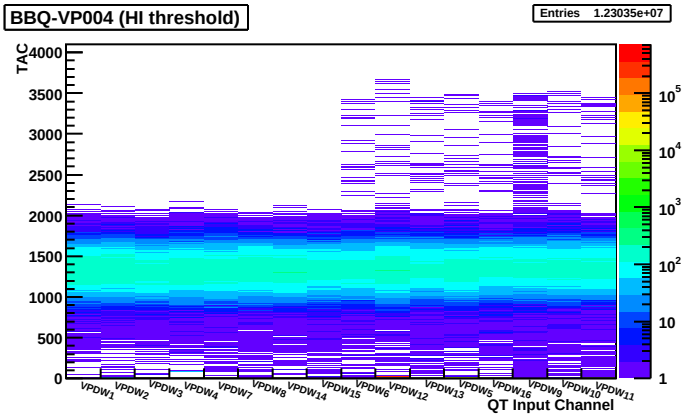

BBQ-VP002 (LO threshold)
Entries 1.23035e+07
ADC
QT Input Channel

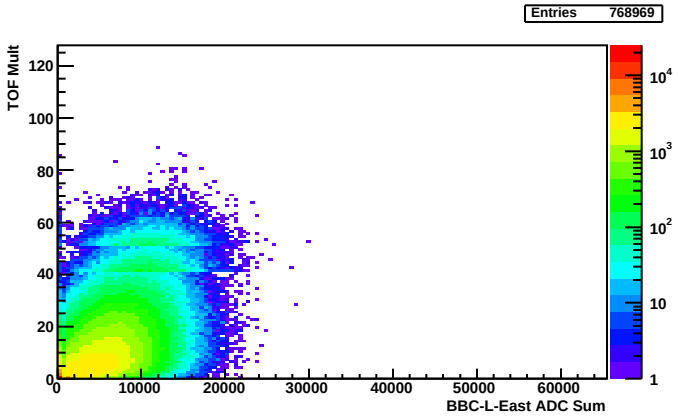

BBQ-VP002 (LO threshold)
Entries 1.23035e+07
TAC
QT Input Channel

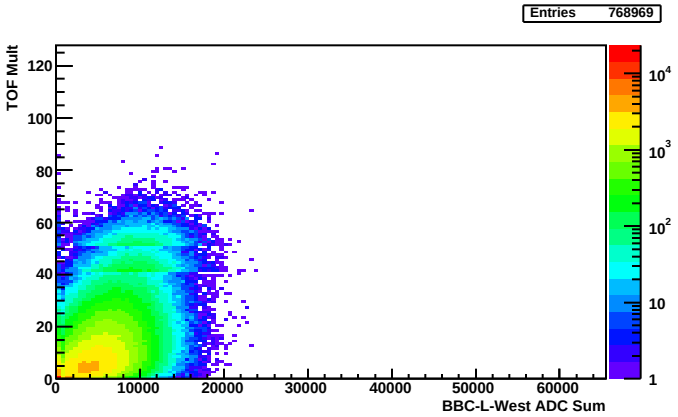

BBQ-VP003 (HI threshold)
Entries 1.23035e+07
ADC
QT Input Channel

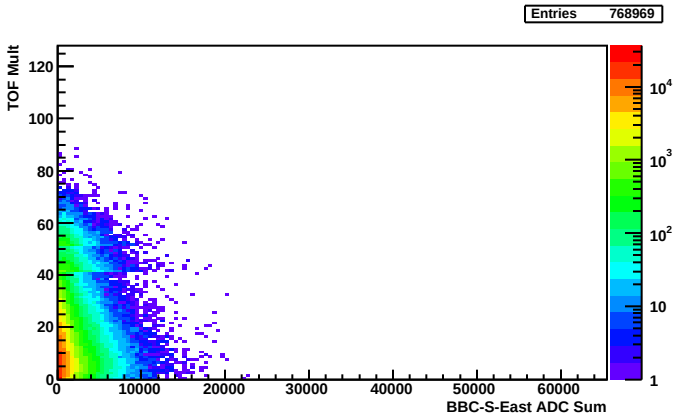

BBQ-VP003 (HI threshold)
Entries 1.23035e+07
TAC
QT Input Channel

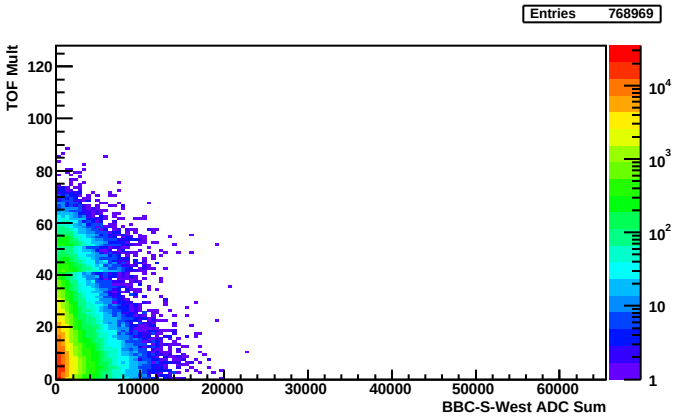

BBQ-VP004 (HI threshold)
Entries 1.23035e+07
ADC
QT Input Channel

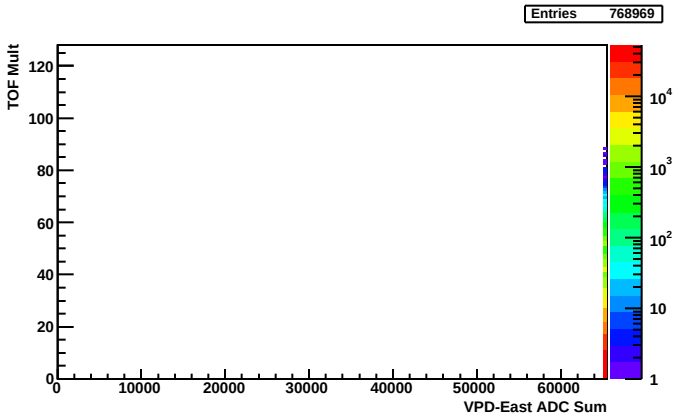

BBQ-VP004 (HI threshold)
Entries 1.23035e+07
TAC
QT Input Channel

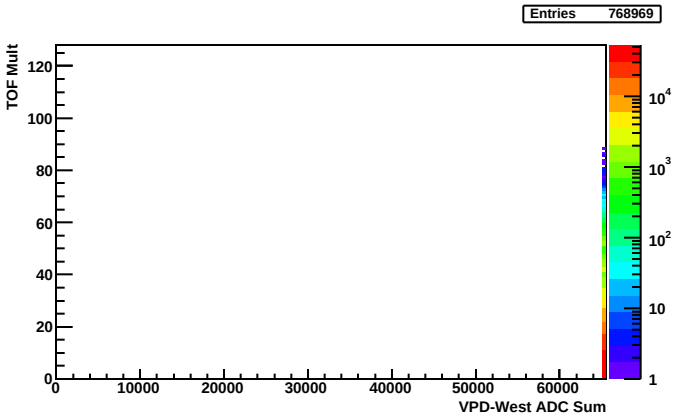

Entries 768969
TOF Mult
BBC-L-East ADC Sum

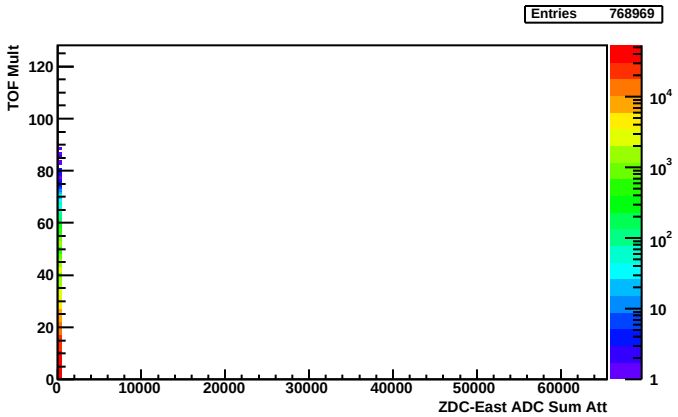

Entries 768969
TOF Mult
BBC-L-West ADC Sum

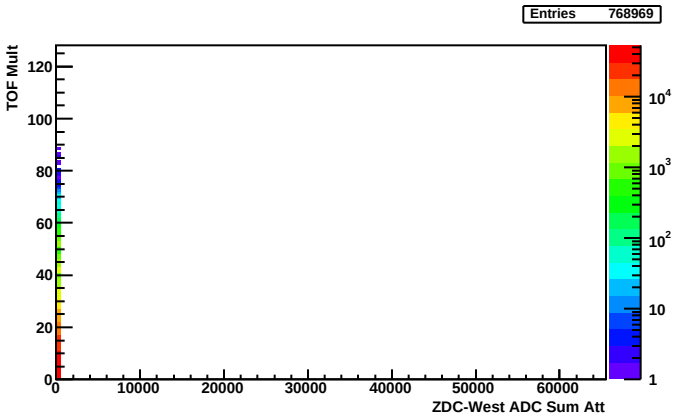

Entries 768969
TOF Mult
BBC-S-East ADC Sum

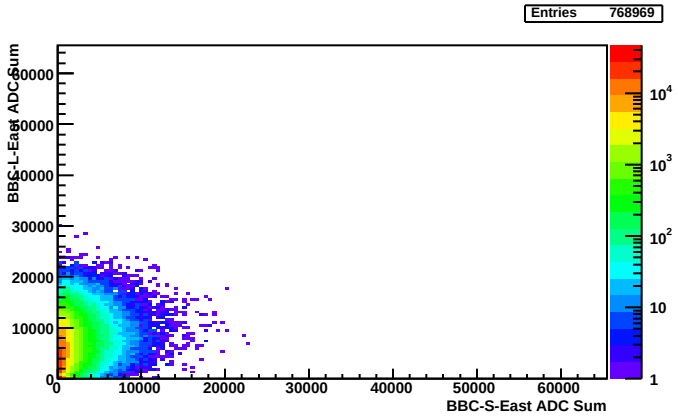

Entries 768969
TOF Mult
BBC-S-West ADC Sum

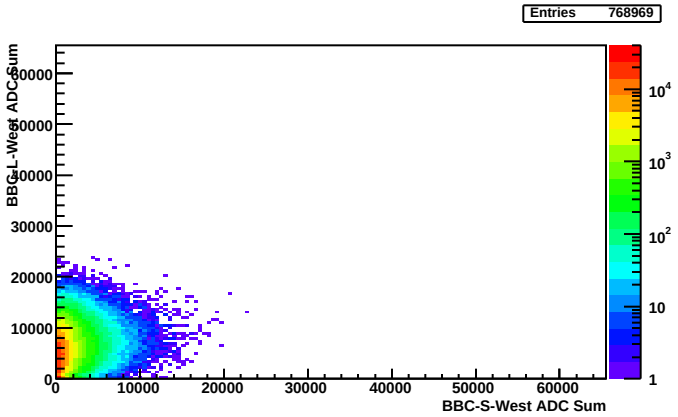

Entries 768969
TOF Mult
VPD-East ADC Sum

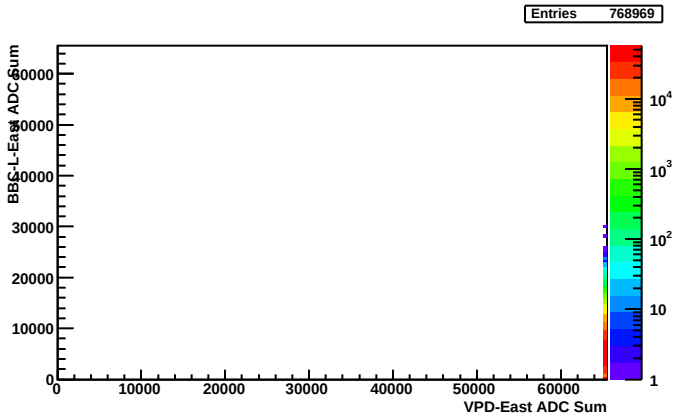

Entries 768969
TOF Mult
VPD-West ADC Sum

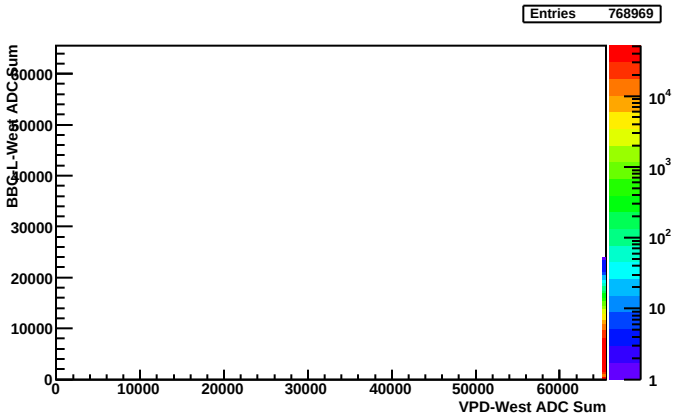

Entries 768969
TOF Mult
ZDC-East ADC Sum Att

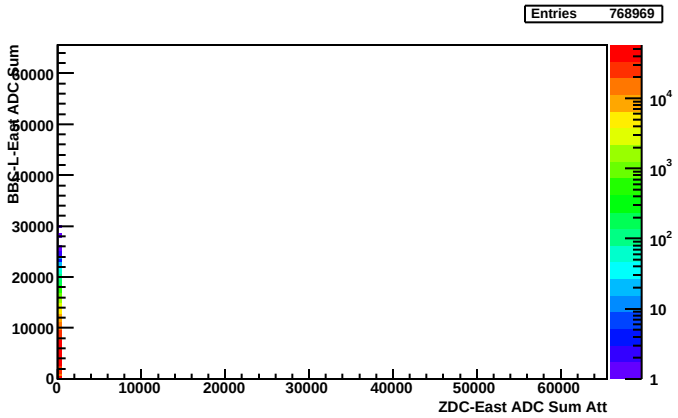

Entries 768969
TOF Mult
ZDC-West ADC Sum Att

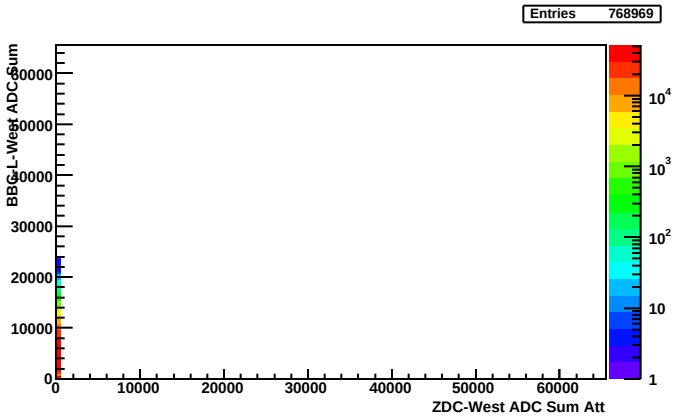

Entries 768969
BBC-L-East ADC Sum
BBC-S-East ADC Sum

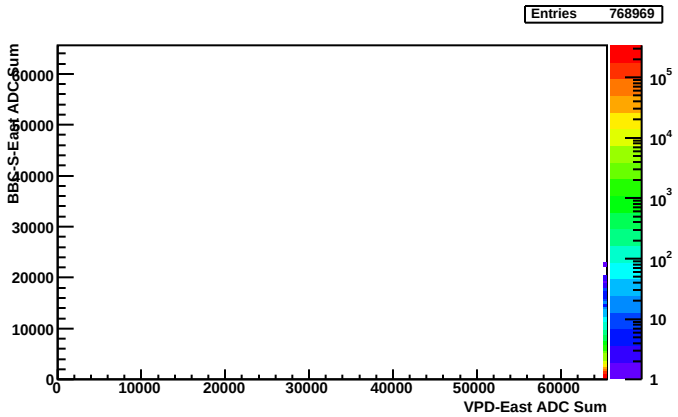

Entries 768969
BBC-L-West ADC Sum
BBC-S-West ADC Sum

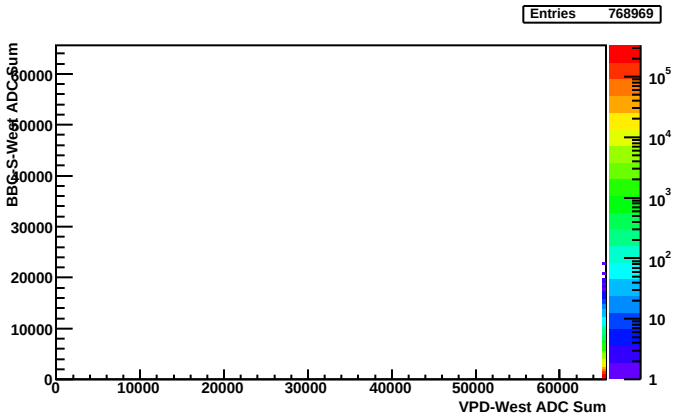

Entries 768969
BBC-L-East ADC Sum
VPD-East ADC Sum

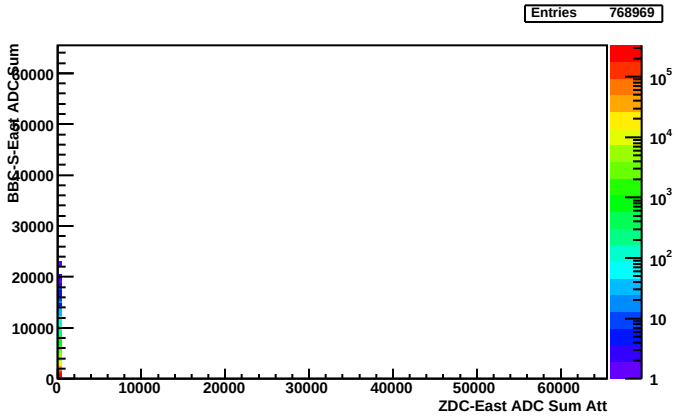

Entries 768969
BBC-L-West ADC Sum
VPD-West ADC Sum

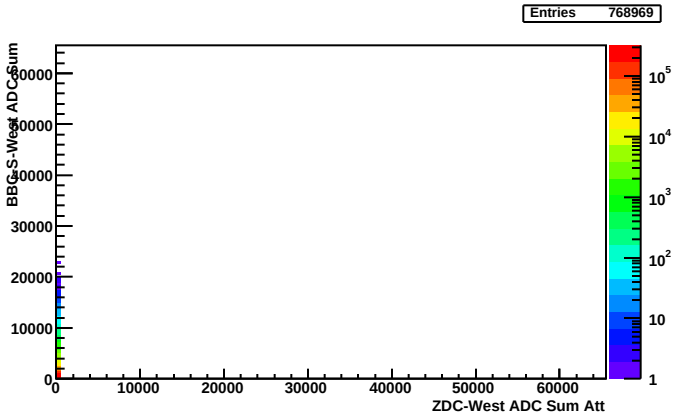

Entries 768969
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

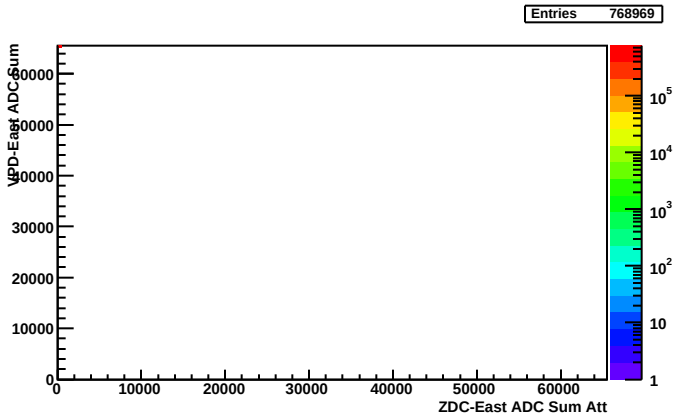

Entries 768969
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

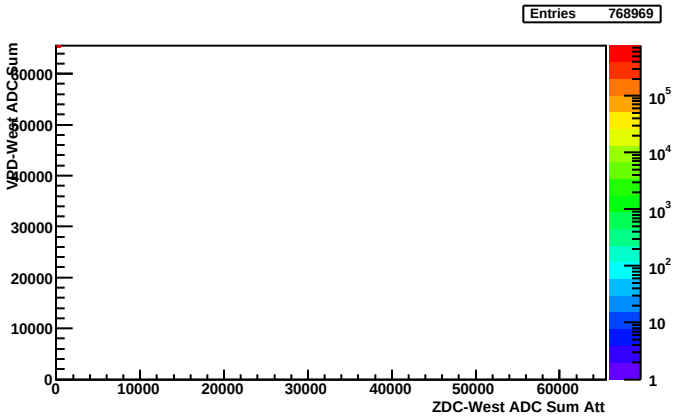

Entries 768969
BBC-S-East ADC Sum
VPD-East ADC Sum

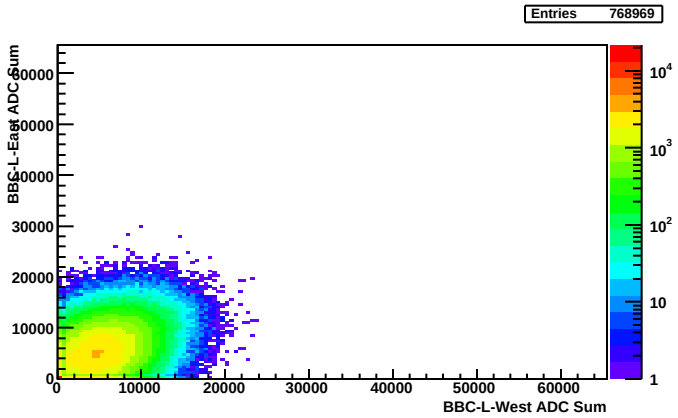

Entries 768969
BBC-S-West ADC Sum
VPD-West ADC Sum

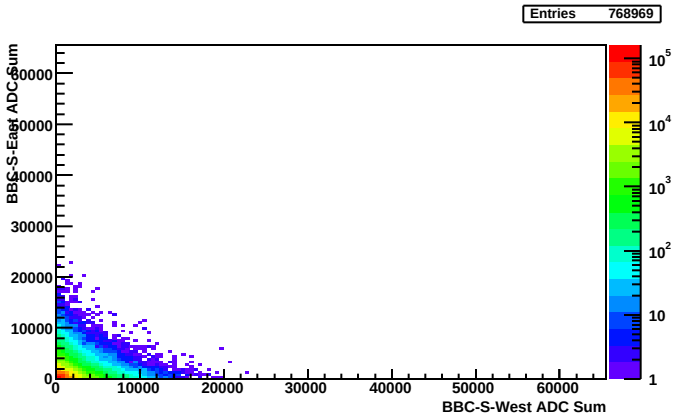

Entries 768969
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

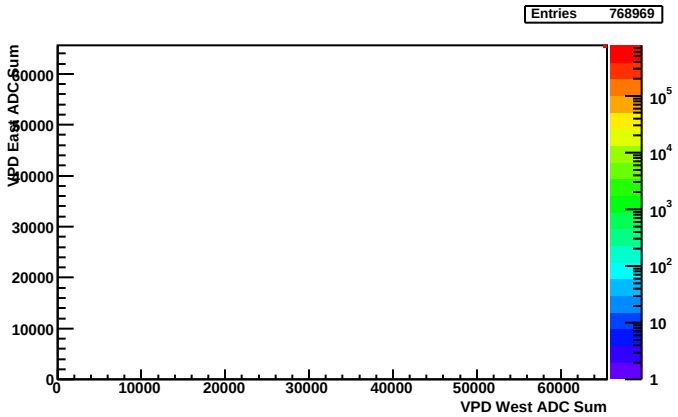

Entries 768969
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

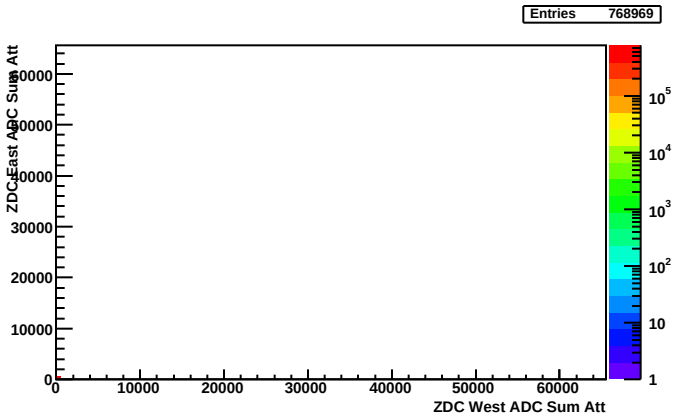

Entries 768969
VPD-East ADC Sum
ZDC-East ADC Sum Att

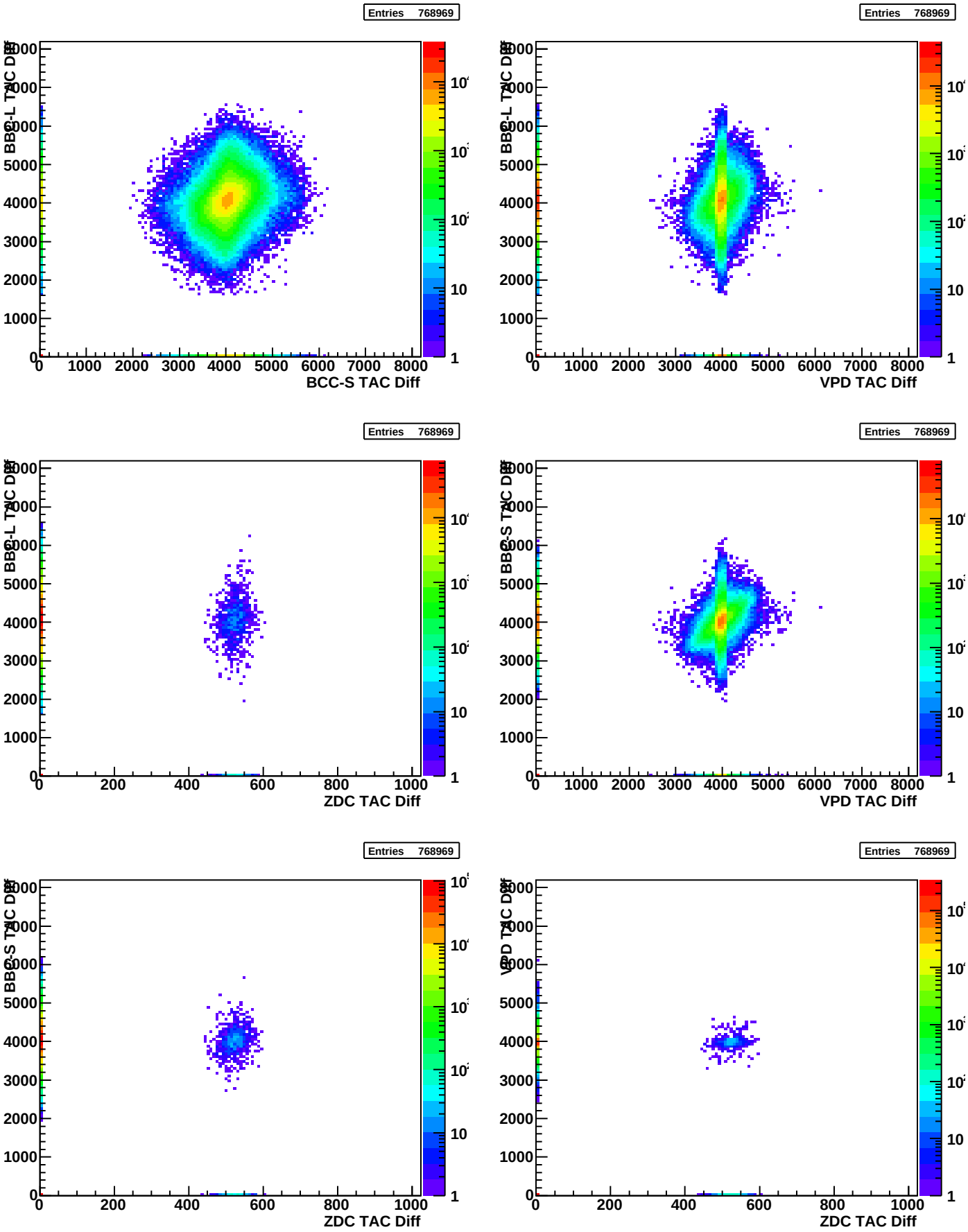

Entries 768969
VPD-West ADC Sum
ZDC-West ADC Sum Att

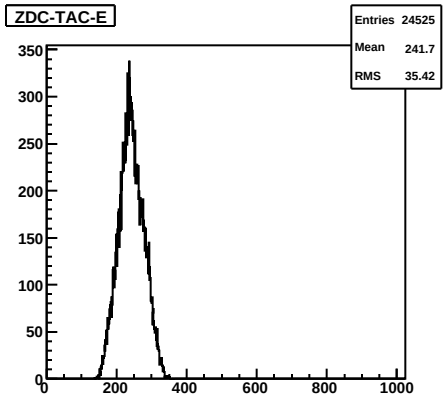

Entries 768969
BBC-L-East ADC Sum
BBC-L-West ADC Sum

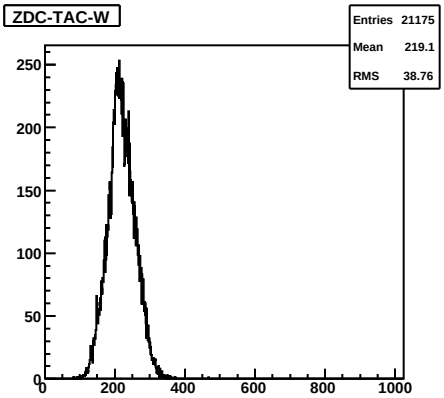

Entries 768969
BBC-S-East ADC Sum
BBC-S-West ADC Sum

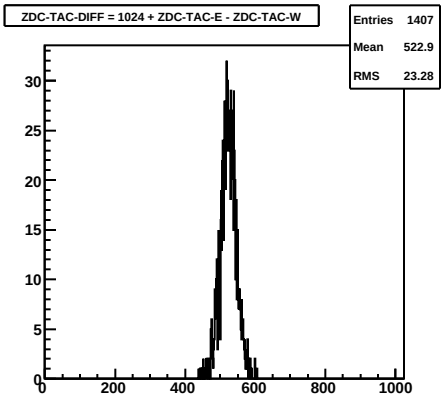

Entries 768969
VPD East ADC Sum
VPD West ADC Sum

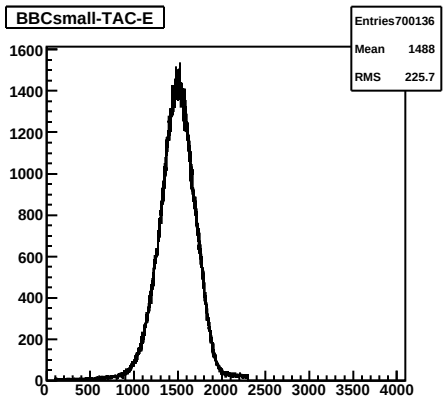

Entries 768969
ZDC East ADC Sum Att
ZDC West ADC Sum Att

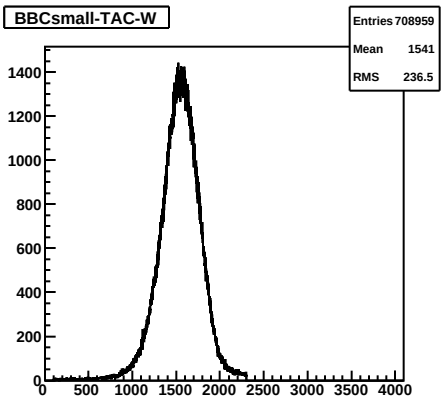

Entries 768969
BBC-L TAC Diff
BCC-S TAC Diff
Entries 768969
BBC-L TAC Diff
VPD TAC Diff
Entries 768969
BBC-L TAC Diff
ZDC TAC Diff
Entries 768969
BBC-S TAC Diff
VPD TAC Diff
Entries 768969
BBC-S TAC Diff
ZDC TAC Diff
Entries 768969
VPD TAC Diff
ZDC TAC Diff

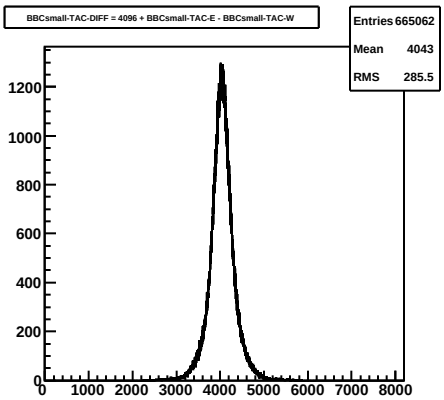

ZDC-TAC-E
Entries 24525
Mean 241.7
RMS 35.42

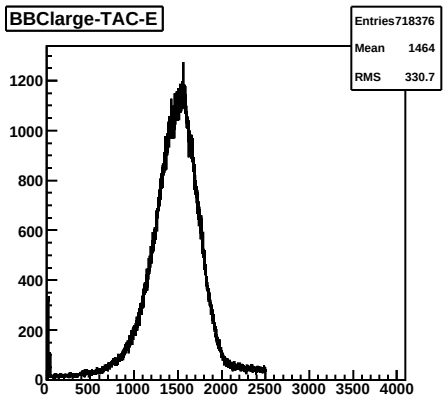

ZDC-TAC-W
Entries 21175
Mean 219.1
RMS 38.76

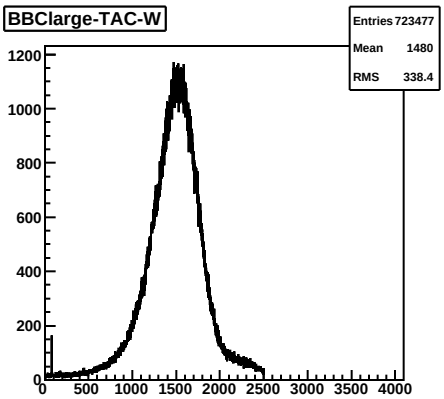

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1407
Mean 522.9
RMS 23.28

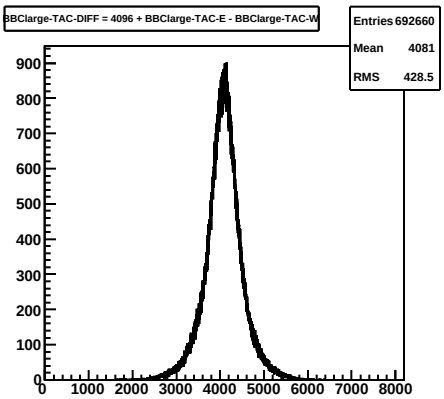

BBCsmall-TAC-E
Entries 700136
Mean 1488
RMS 225.7

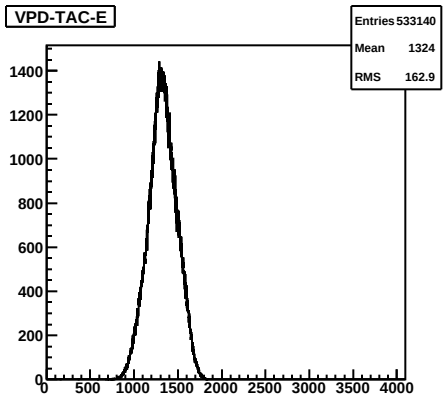

BBCsmall-TAC-W
Entries 708959
Mean 1541
RMS 236.5

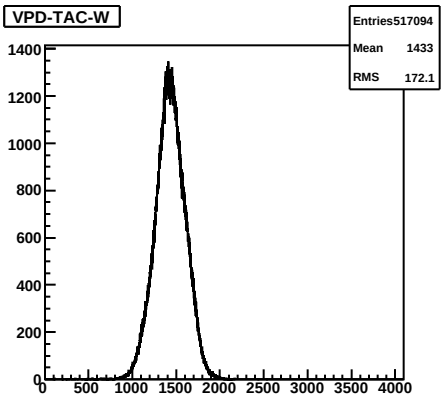

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 665062
Mean 4043
RMS 285.5

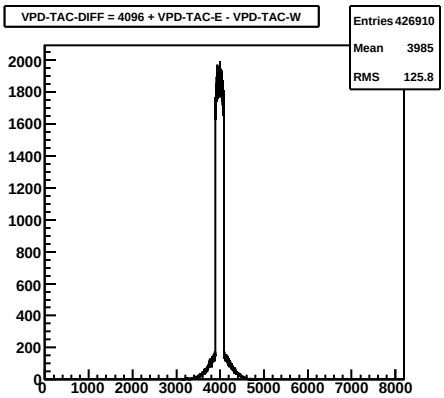

BBClarge-TAC-E
Entries 718376
Mean 1464
RMS 330.7

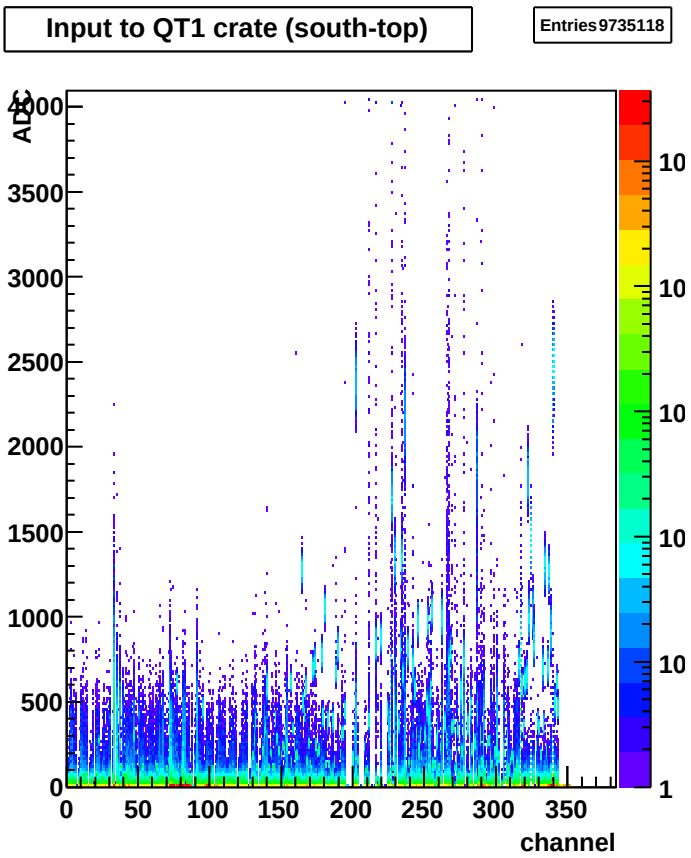

BBClarge-TAC-W
Entries 723477
Mean 1480
RMS 338.4

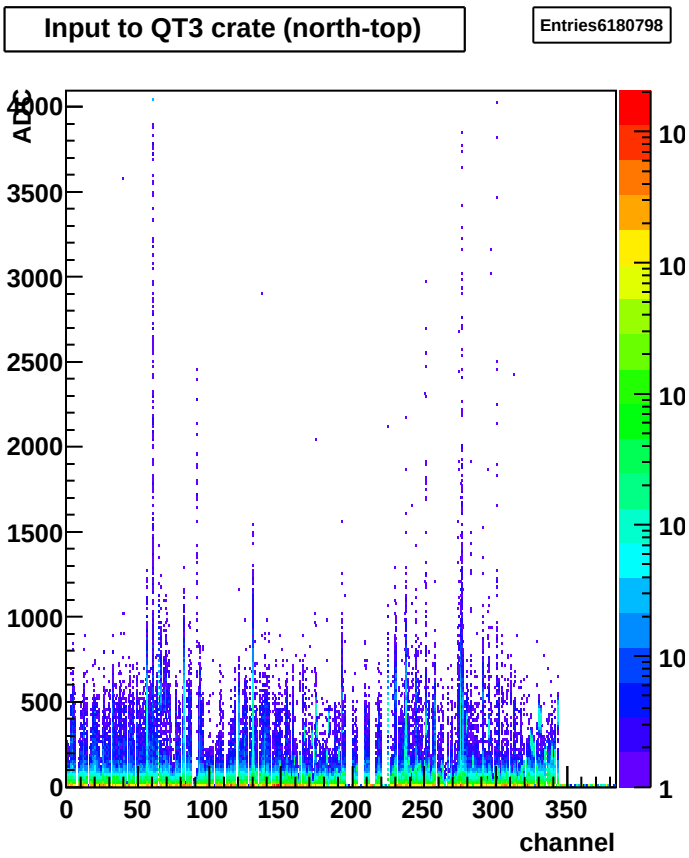

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 692660
Mean 4081
RMS 428.5

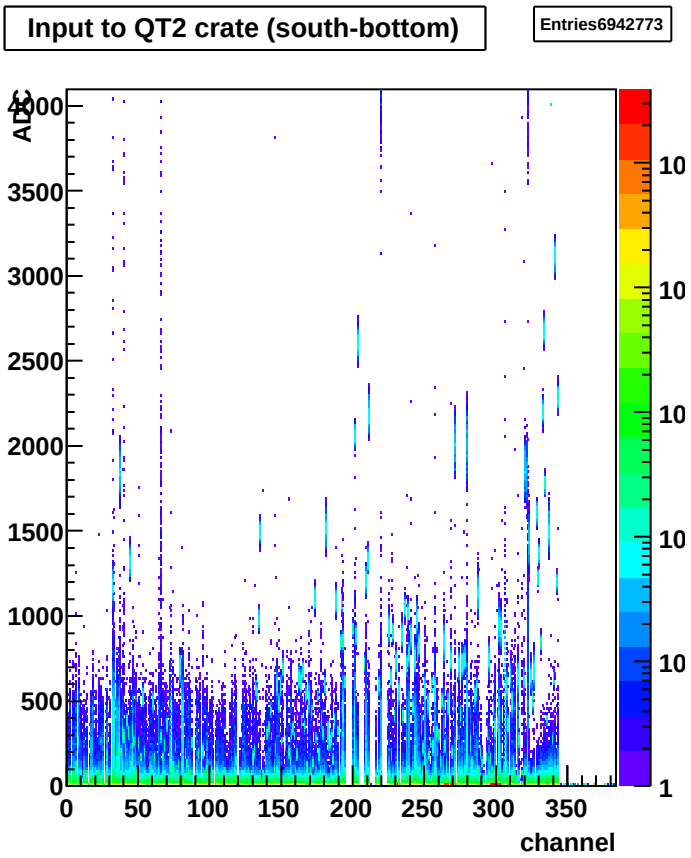

VPD-TAC-E
Entries 533140
Mean 1324
RMS 162.9

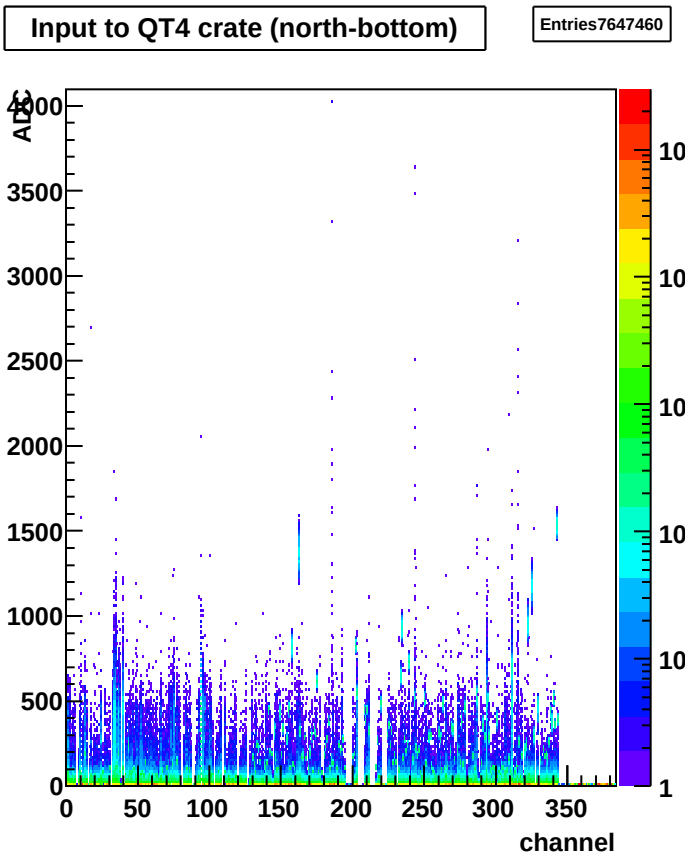

VPD-TAC-W
Entries 517094
Mean 1433
RMS 172.1

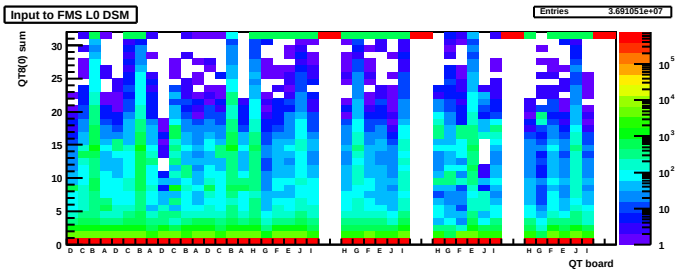

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 426910
Mean 3985
RMS 125.8

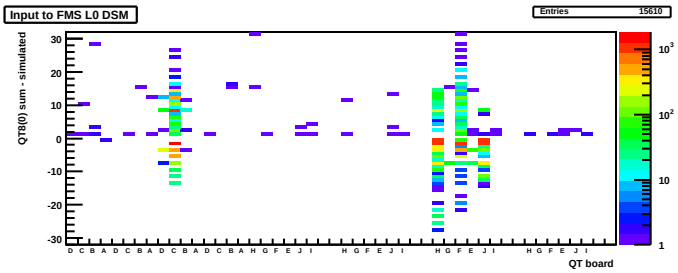

Input to QT1 crate (south-top)
Entries9735118
ADC
channel

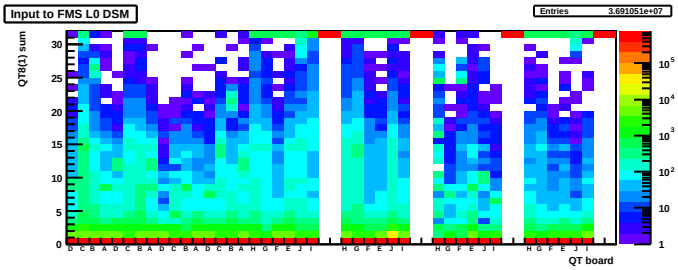

Input to QT3 crate (north-top)
Entries6180798
ADC
channel

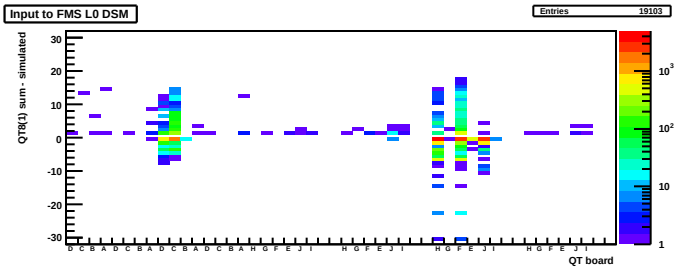

Input to QT2 crate (south-bottom)
Entries6942773
ADC
channel

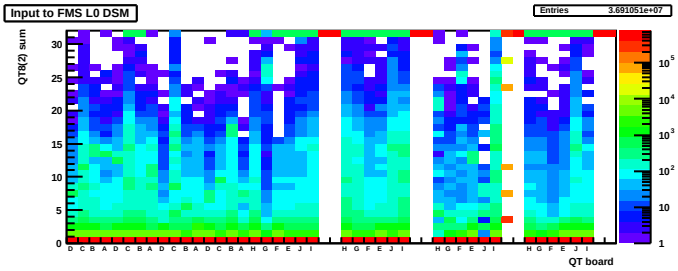

Input to QT4 crate (north-bottom)
Entries7647460
ADC
channel

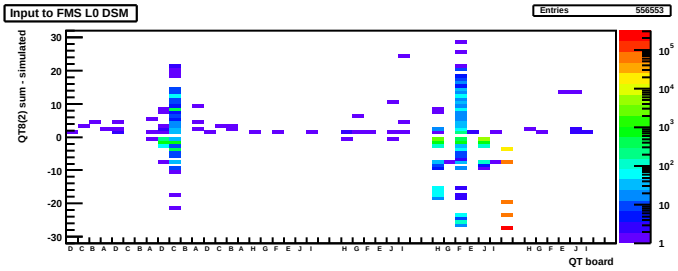

Input to FMS L0 DSM
Entries 3.691051e+07
QT8(0) sum
QT board

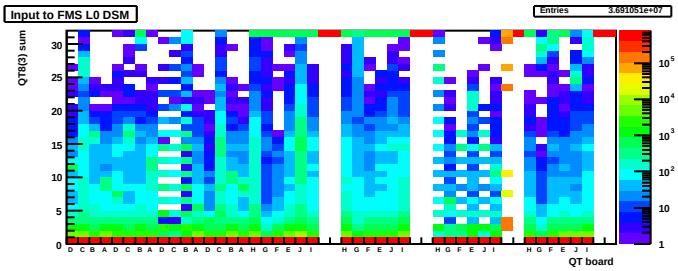

Input to FMS L0 DSM
Entries 15610
QT8(0) sum - simulated
QT board

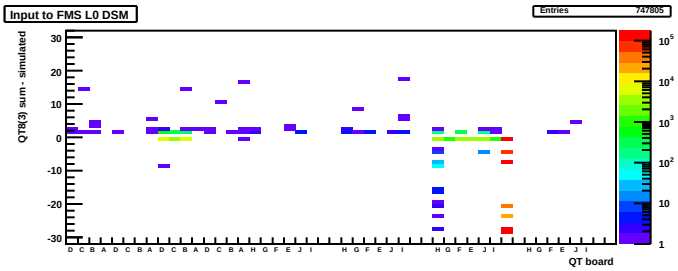

Input to FMS L0 DSM
Entries 3.691051e+07
QT8(1) sum
QT board

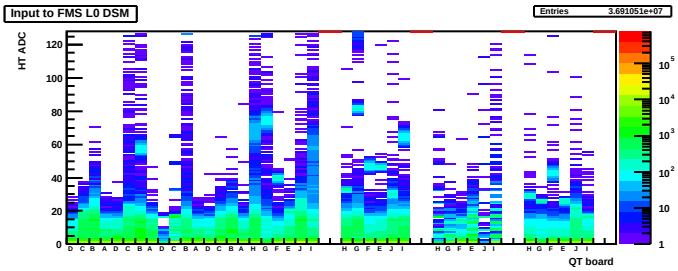

Input to FMS L0 DSM
Entries 19103
QT8(1) sum - simulated
QT board

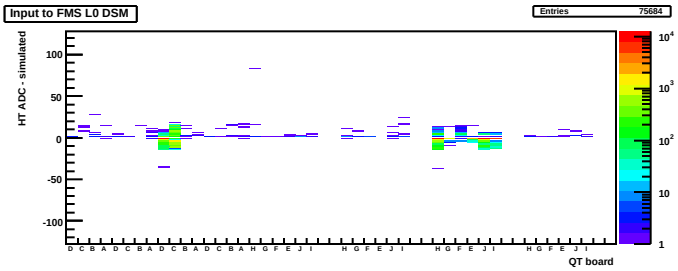

Input to FMS L0 DSM
Entries 3.691051e+07
QT8(2) sum
QT board

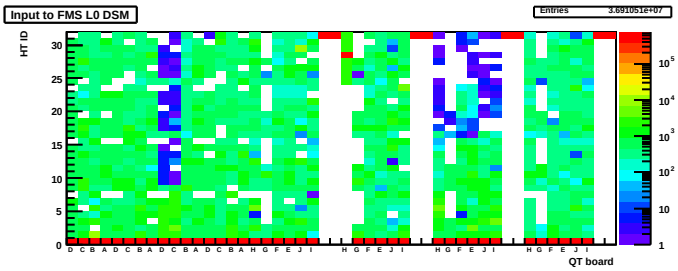

Input to FMS L0 DSM
Entries 556553
QT8(2) sum - simulated
QT board

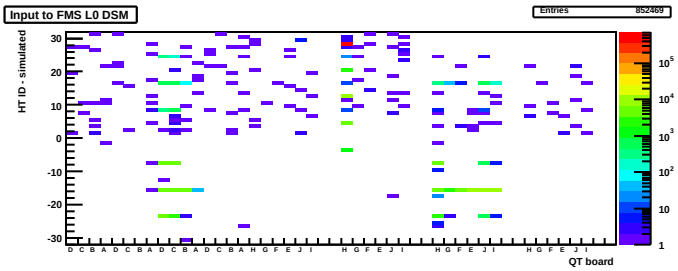

Input to FMS L0 DSM
Entries 3.691051e+07
QT8(3) sum
QT board

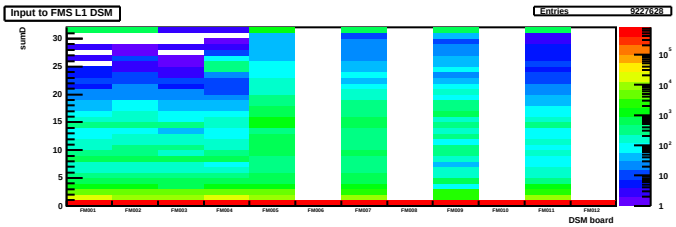

Input to FMS L0 DSM
Entries 747805
QT8(3) sum - simulated
QT board

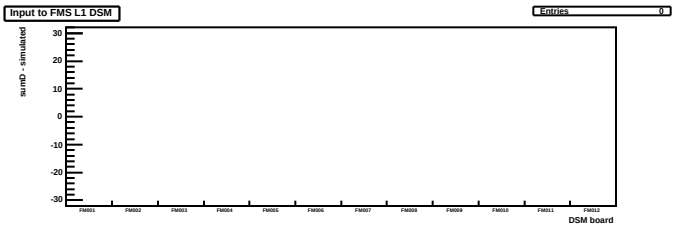

Input to FMS L0 DSM
Entries 3.691051e+07
HT ADC
QT board

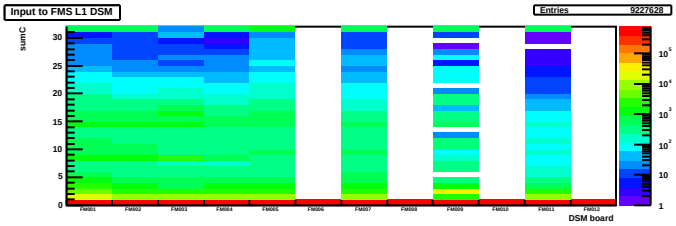

Input to FMS L0 DSM
Entries 75684
HT ADC - simulated
QT board

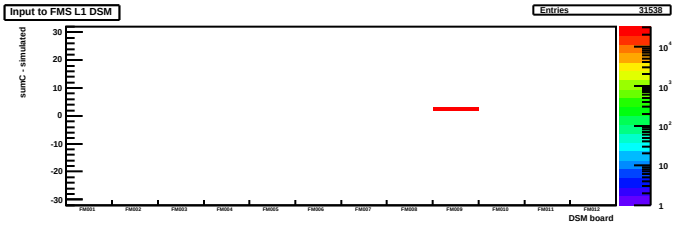

Input to FMS L0 DSM
Entries 3.691051e+07
HT ID
QT board

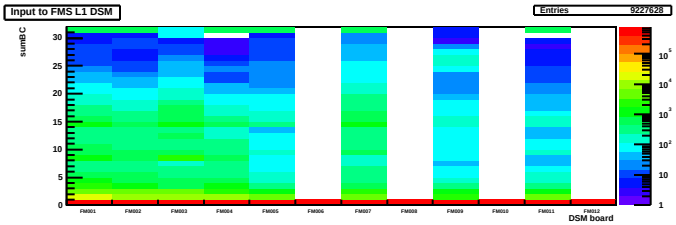

Input to FMS L0 DSM
Entries 852469
HT ID - simulated
QT board

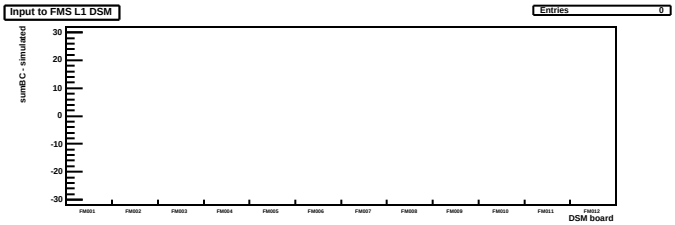

Input to FMS L1 DSM
Entries 9227628
sumD
DSM board

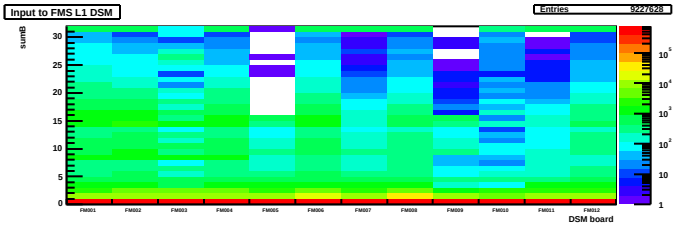

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

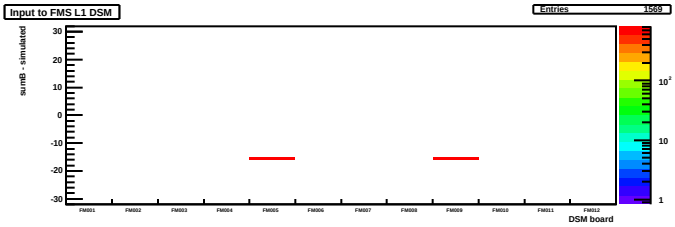

Input to FMS L1 DSM
Entries 9227628
sumC
DSM board

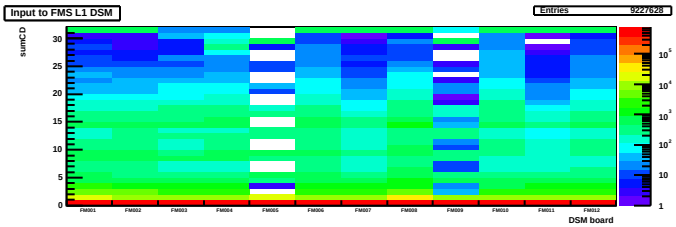

Input to FMS L1 DSM
Entries 31538
sumC - simulated
DSM board

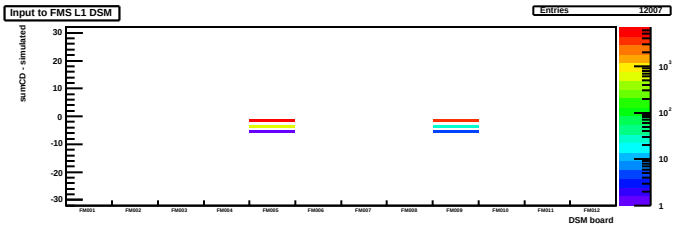

Input to FMS L1 DSM
Entries 9227628
sumBC
DSM board

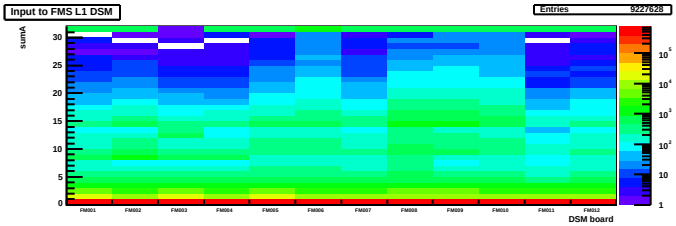

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

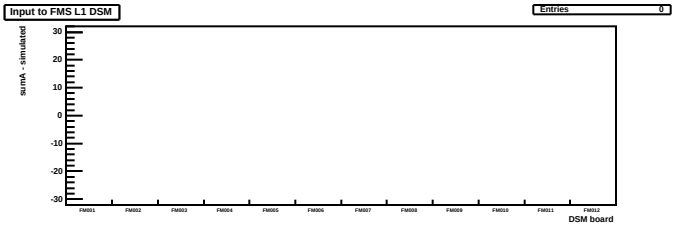

Input to FMS L1 DSM
Entries 9227628
sumB
DSM board

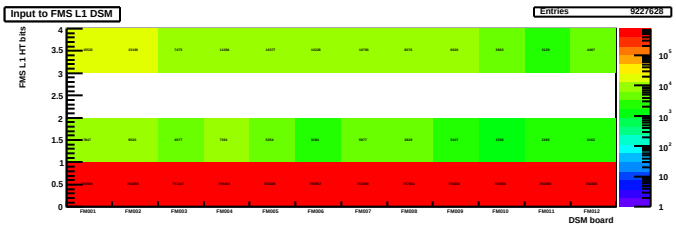

Input to FMS L1 DSM
Entries 1569
sumB - simulated
DSM board

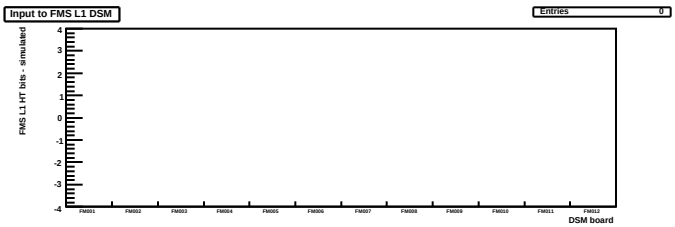

Input to FMS L1 DSM
Entries 9227628
sumCD
DSM board

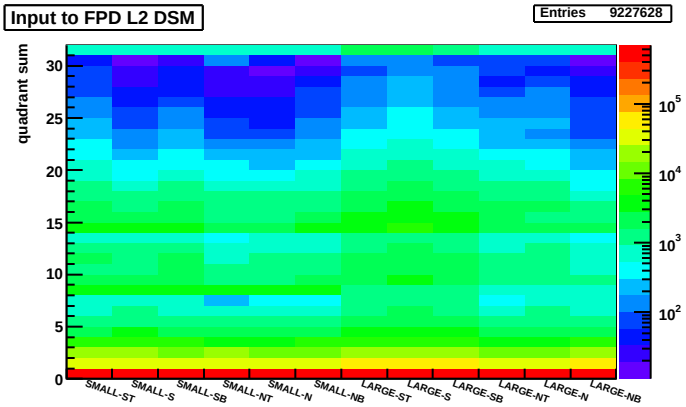

Input to FMS L1 DSM
Entries 12007
sumCD - simulated
DSM board

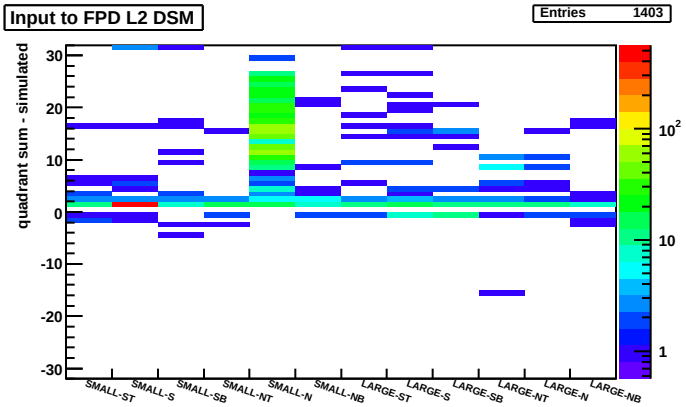

Input to FMS L1 DSM
Entries 9227628
sumA
DSM board

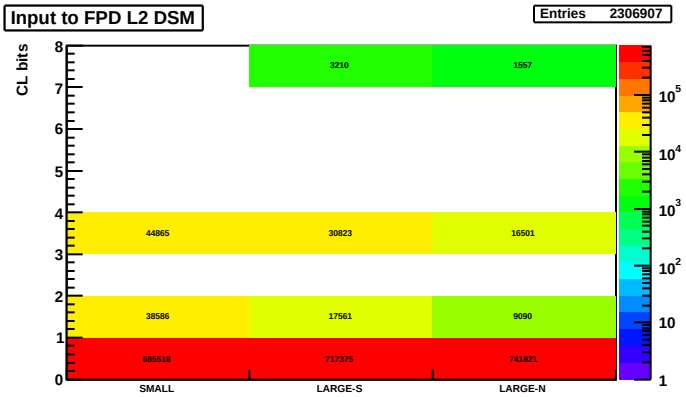

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

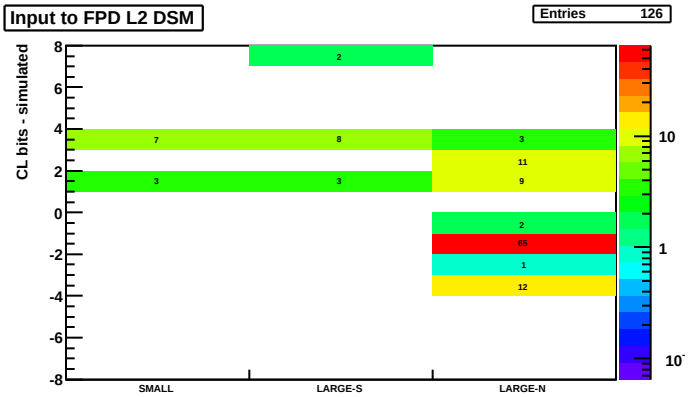

Input to FMS L1 DSM
Entries 9227628
FMS L1 HT bits
DSM board

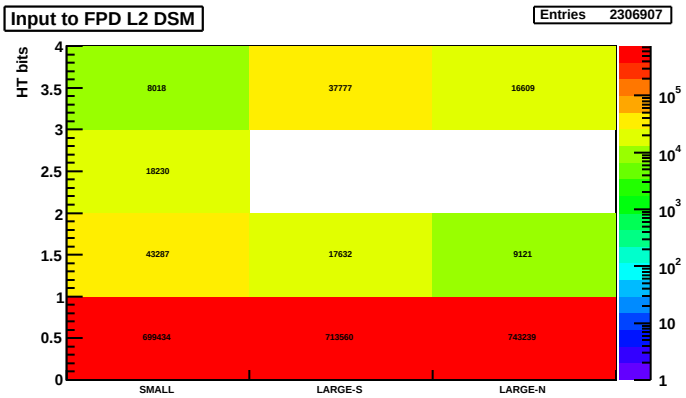

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

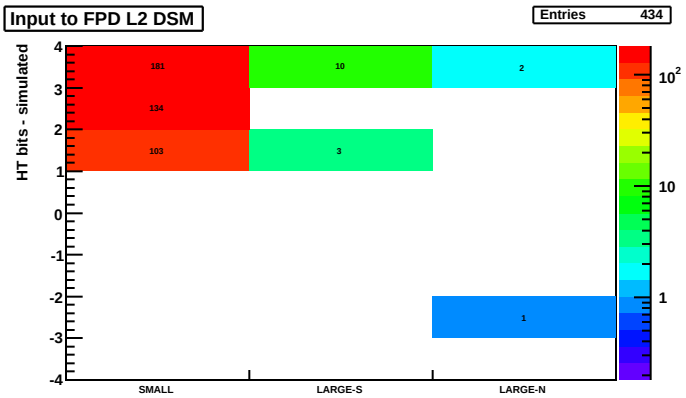

Input to FPD L2 DSM
Entries 9227628
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

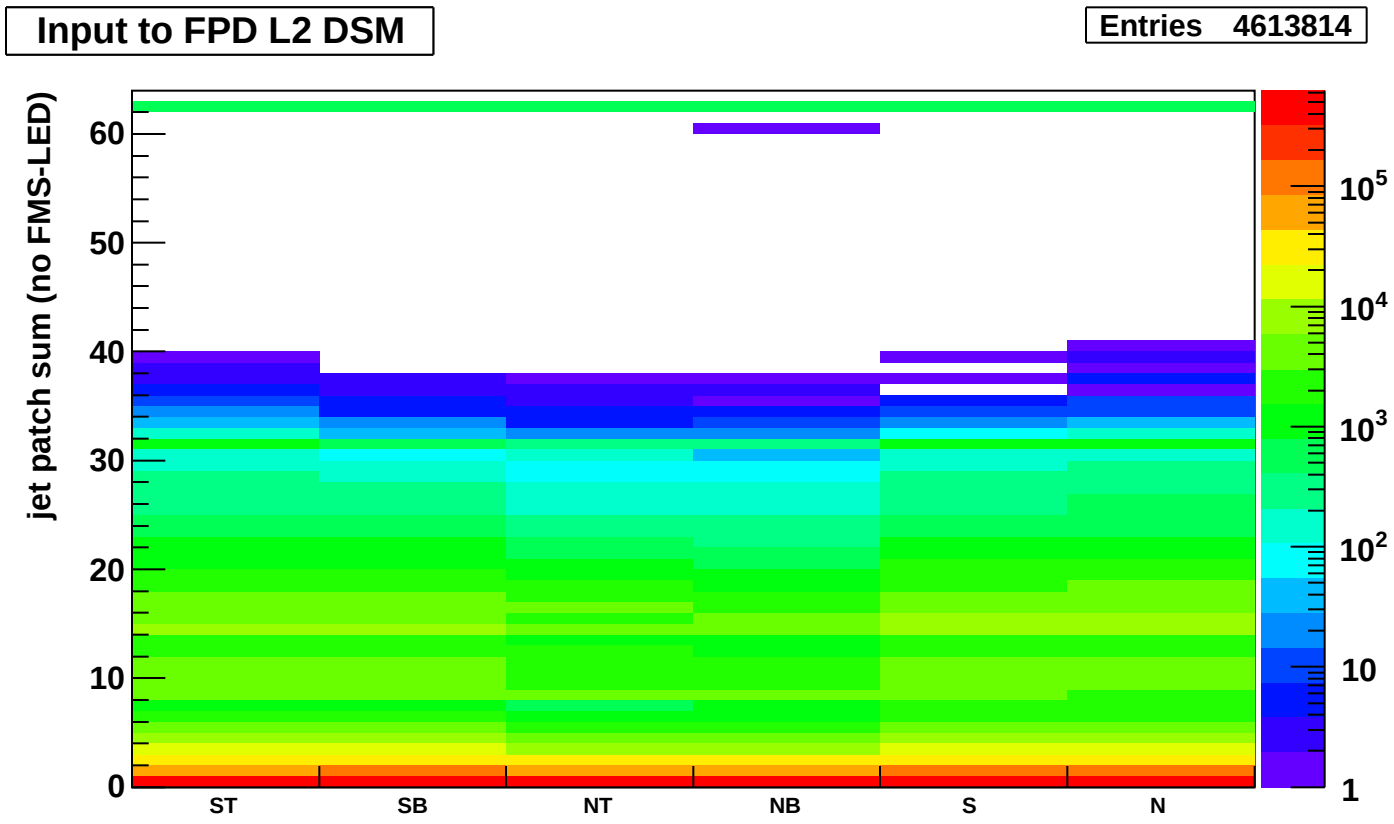

Input to FPD L2 DSM
Entries 1403
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

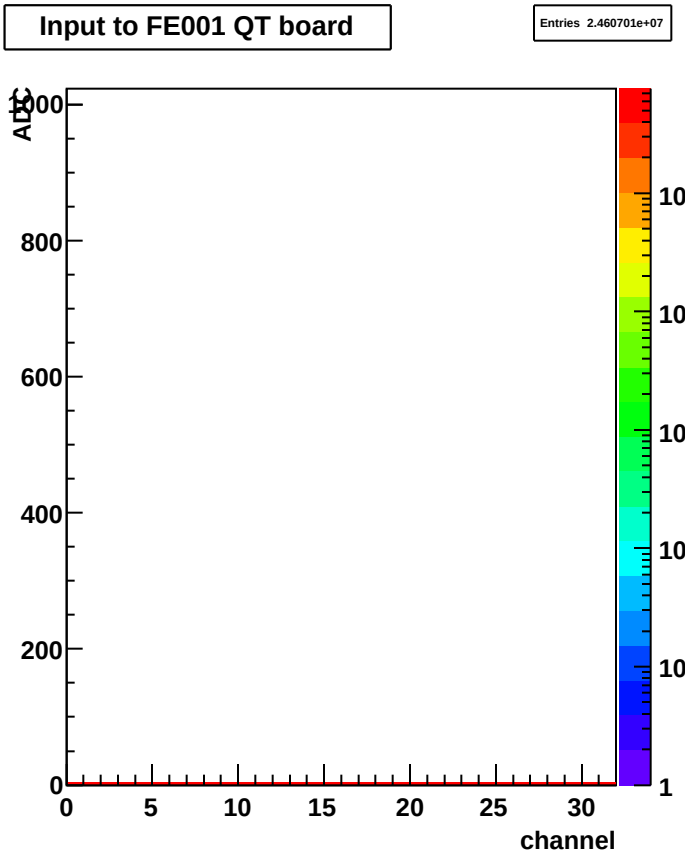

Input to FPD L2 DSM
Entries 2306907
CL bits
3210
1557
44865
30823
16501
38586
17561
9090
685518
717375
741821
SMALL
LARGE-S
LARGE-N

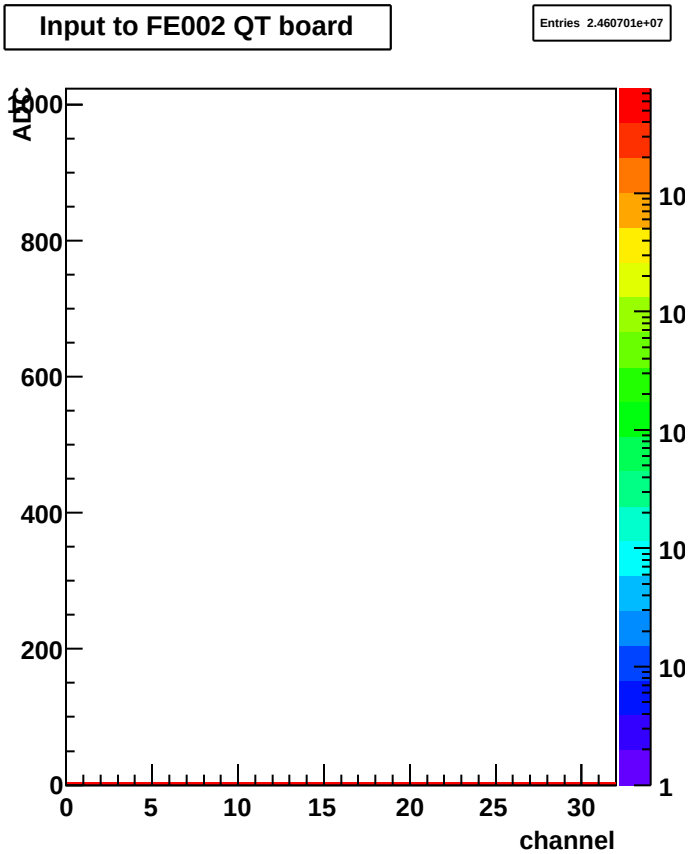

Input to FPD L2 DSM
Entries 126
CL bits - simulated
2
7
8
3
11
3
3
9
2
65
1
12
SMALL
LARGE-S
LARGE-N

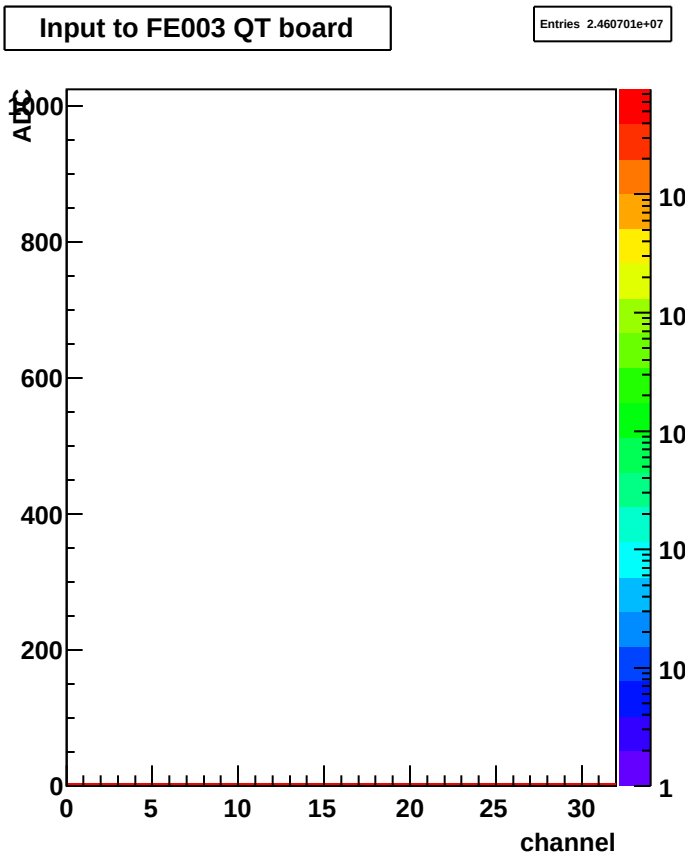

Input to FPD L2 DSM
Entries 2306907
HT bits
8018
37777
16609
18230
43287
17632
9121
699434
713560
743239
SMALL
LARGE-S
LARGE-N

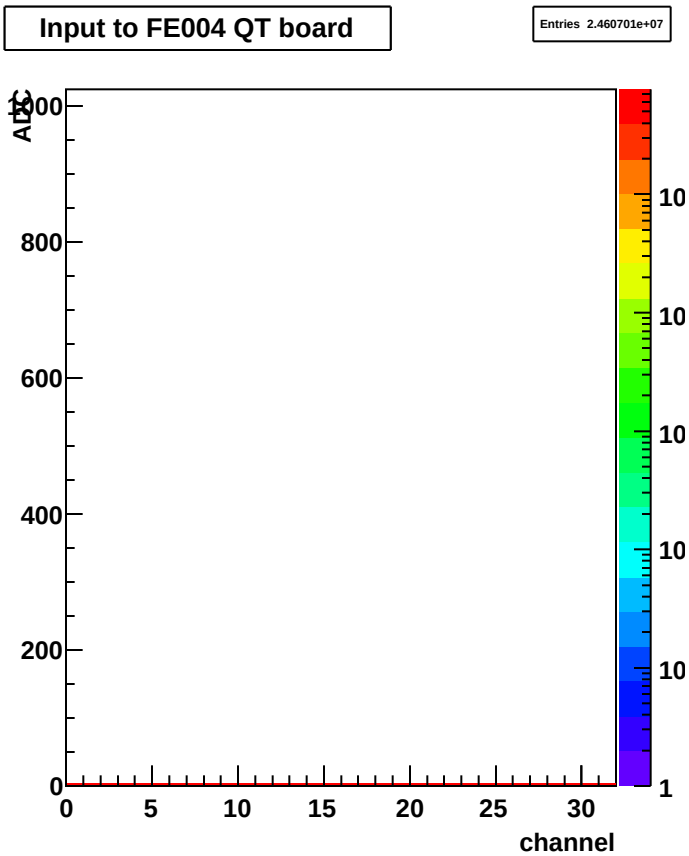

Input to FPD L2 DSM
Entries 434
HT bits - simulated
181
10
2
134
103
3
1
SMALL
LARGE-S
LARGE-N

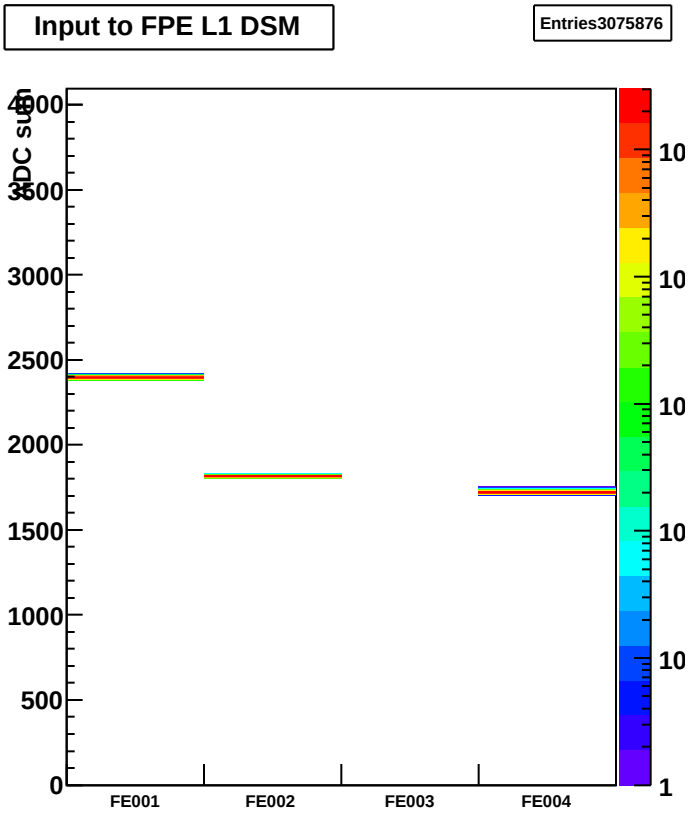

Input to FPD L2 DSM
Entries 4613814
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

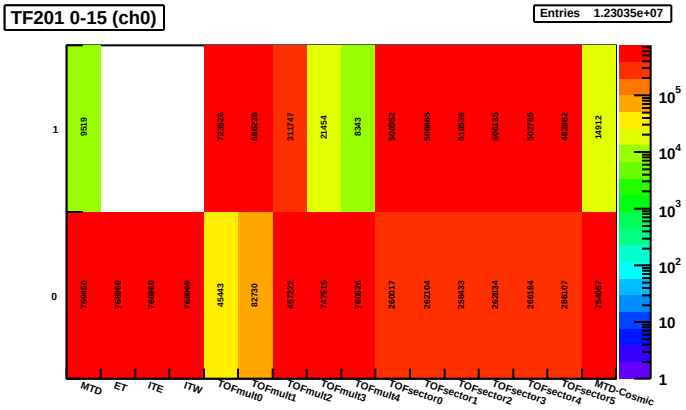

Input to FE001 QT board
Entries 2.460701e+07
ADC
channel

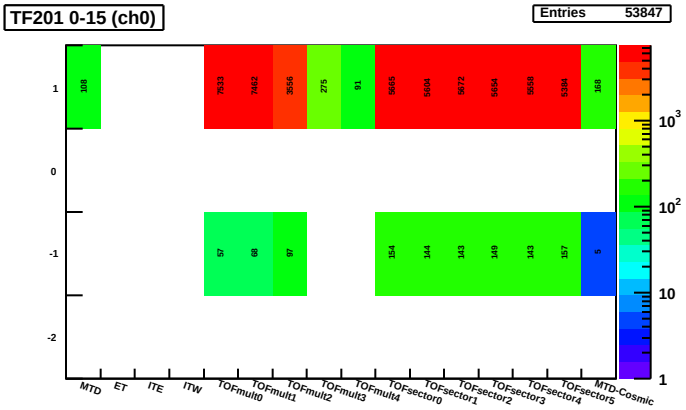

Input to FE002 QT board
Entries 2.460701e+07
ADC
channel

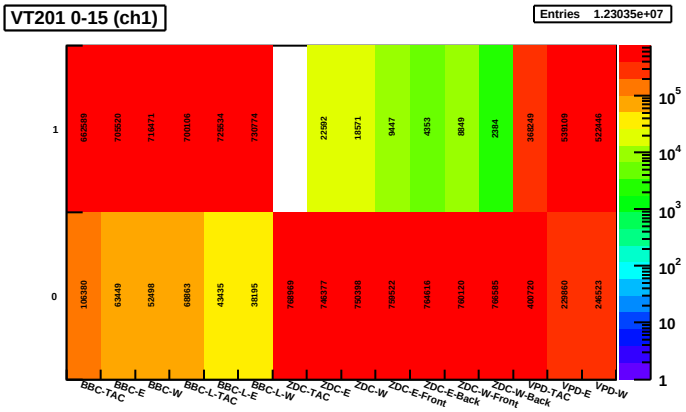

Input to FE003 QT board
Entries 2.460701e+07
ADC
channel

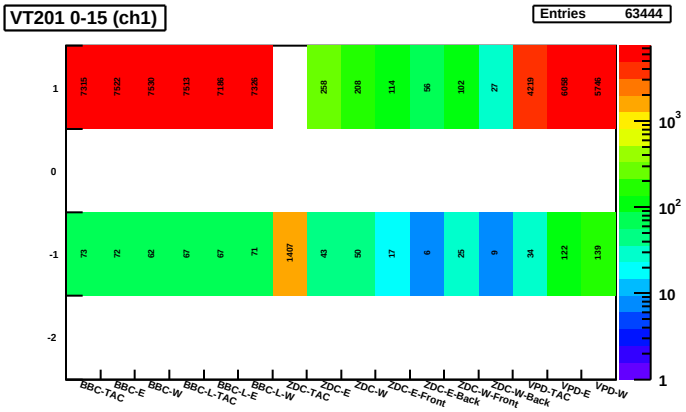

Input to FE004 QT board
Entries 2.460701e+07
ADC
channel

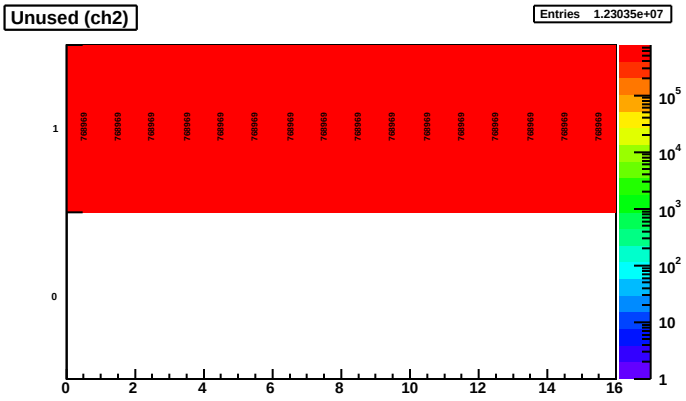

Input to FPE L1 DSM
Entries3075876
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

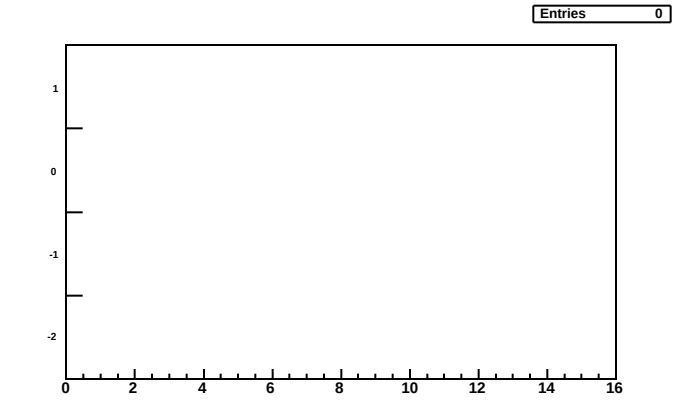

TF201 0-15 (ch0)
Entries 1.23035e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

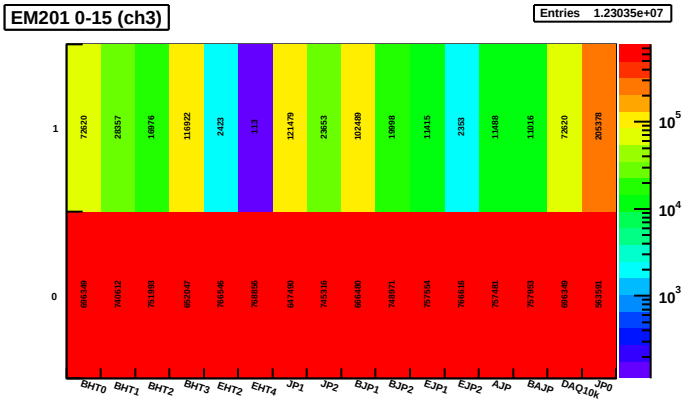

TF201 0-15 (ch0)
Entries 53847
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

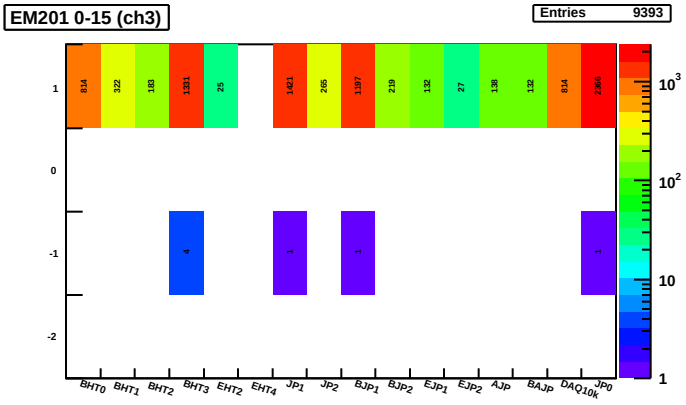

VT201 0-15 (ch1)
Entries 1.23035e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 63444
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

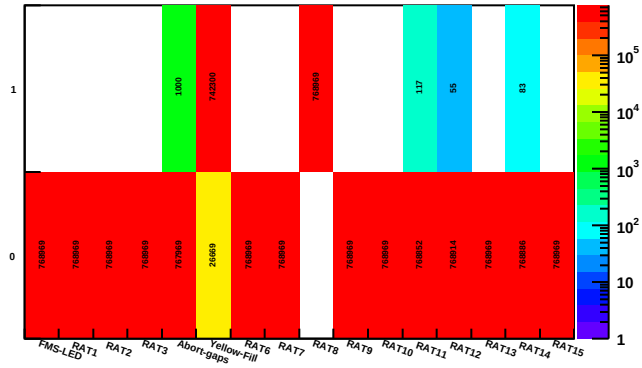

Unused (ch2)
Entries 1.23035e+07

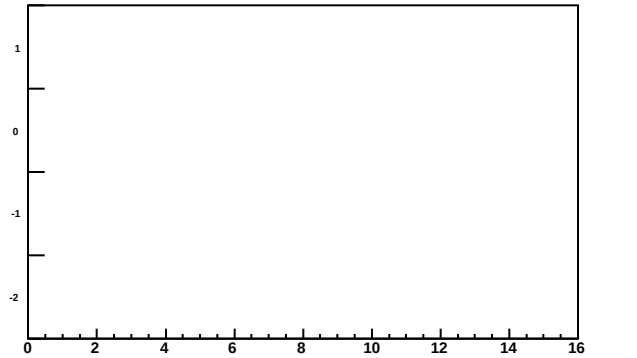

Entries 0


EM201 0-15 (ch3)
Entries 1.23035e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

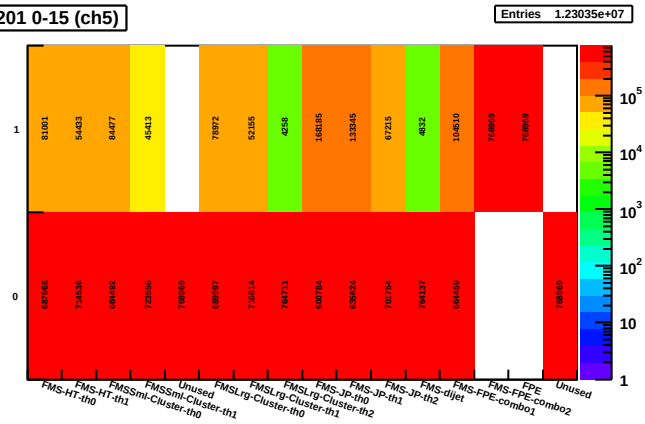

EM201 0-15 (ch3)
Entries 9393
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

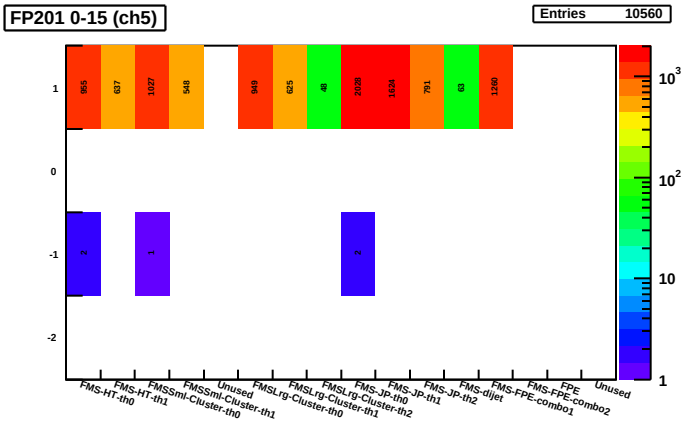




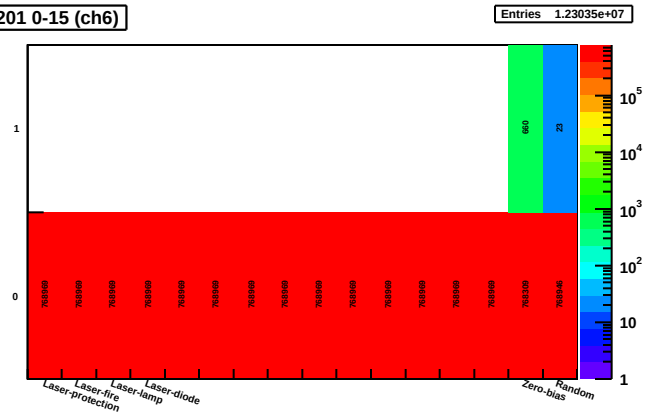
FP201 0-15 (ch5)

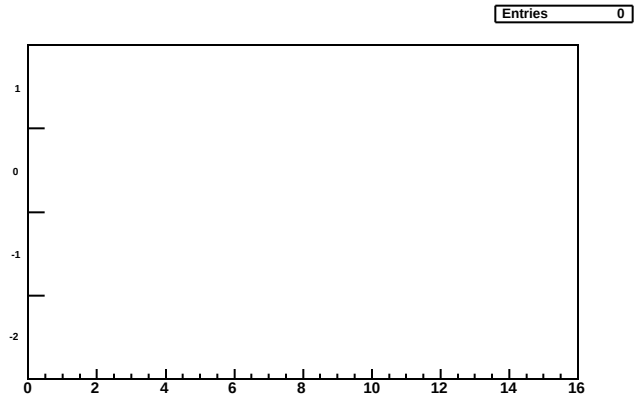
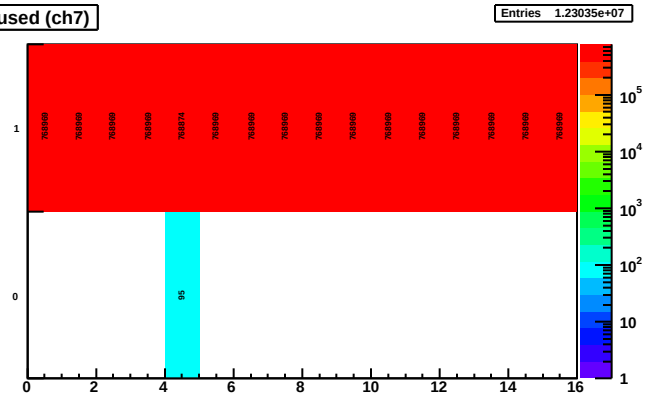
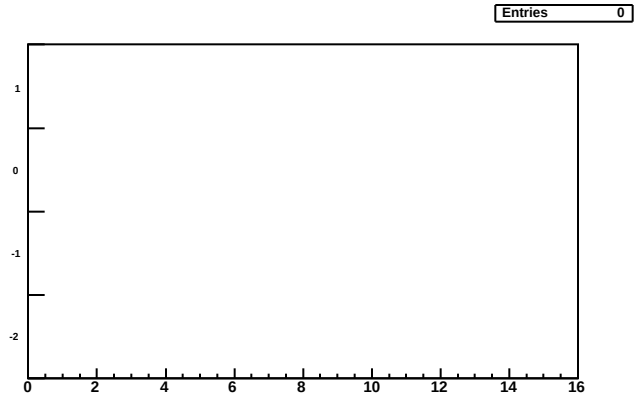


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)