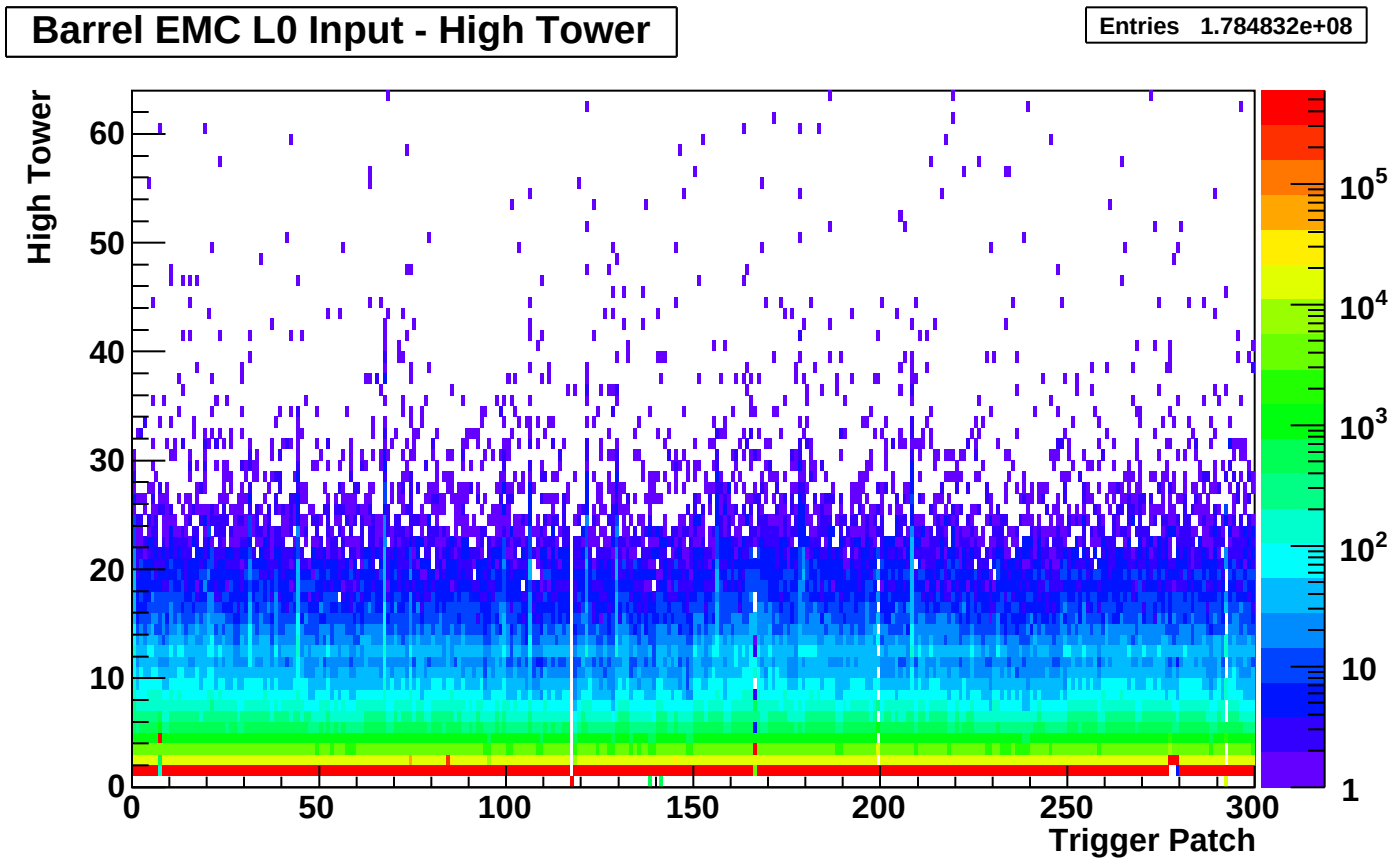
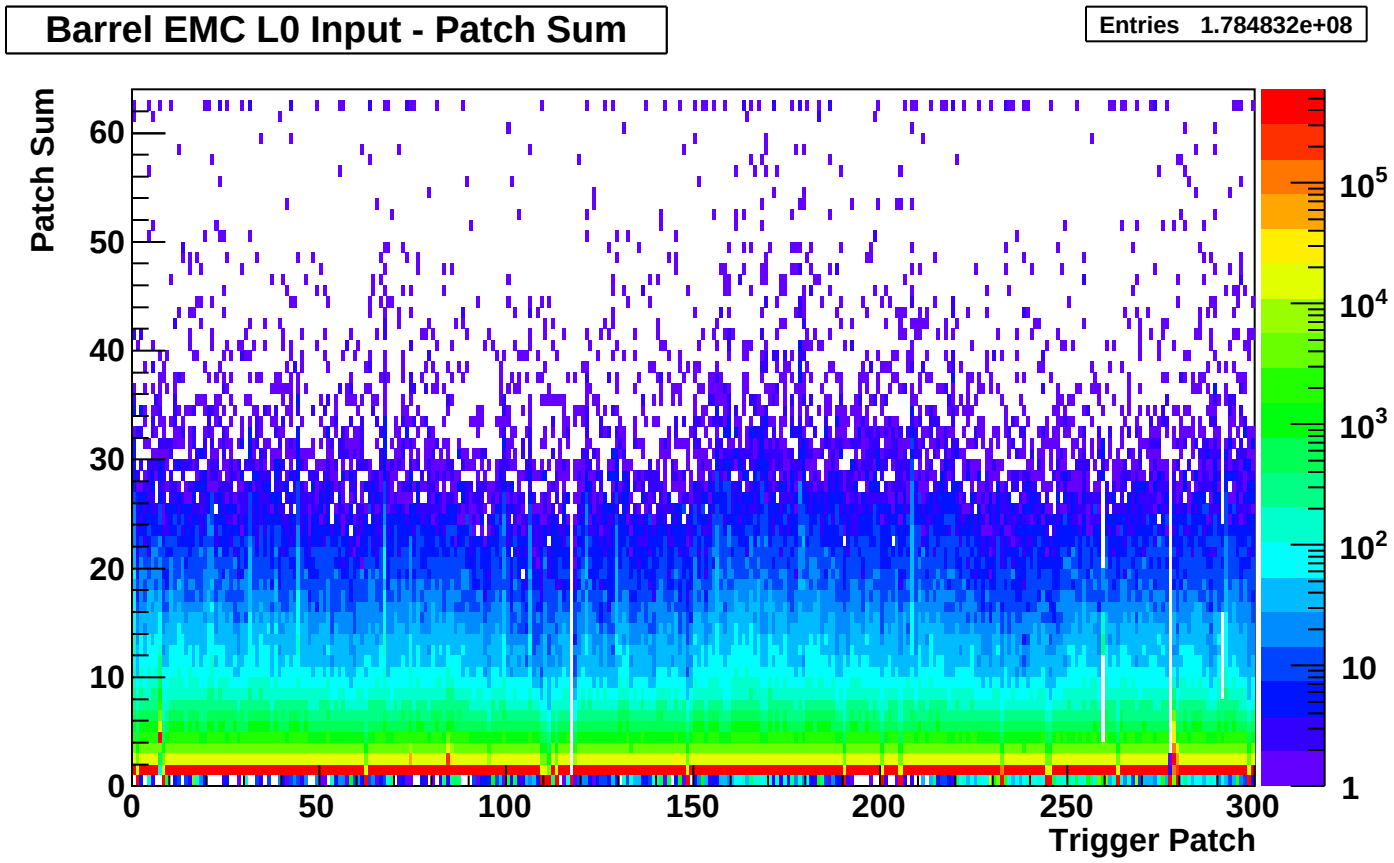
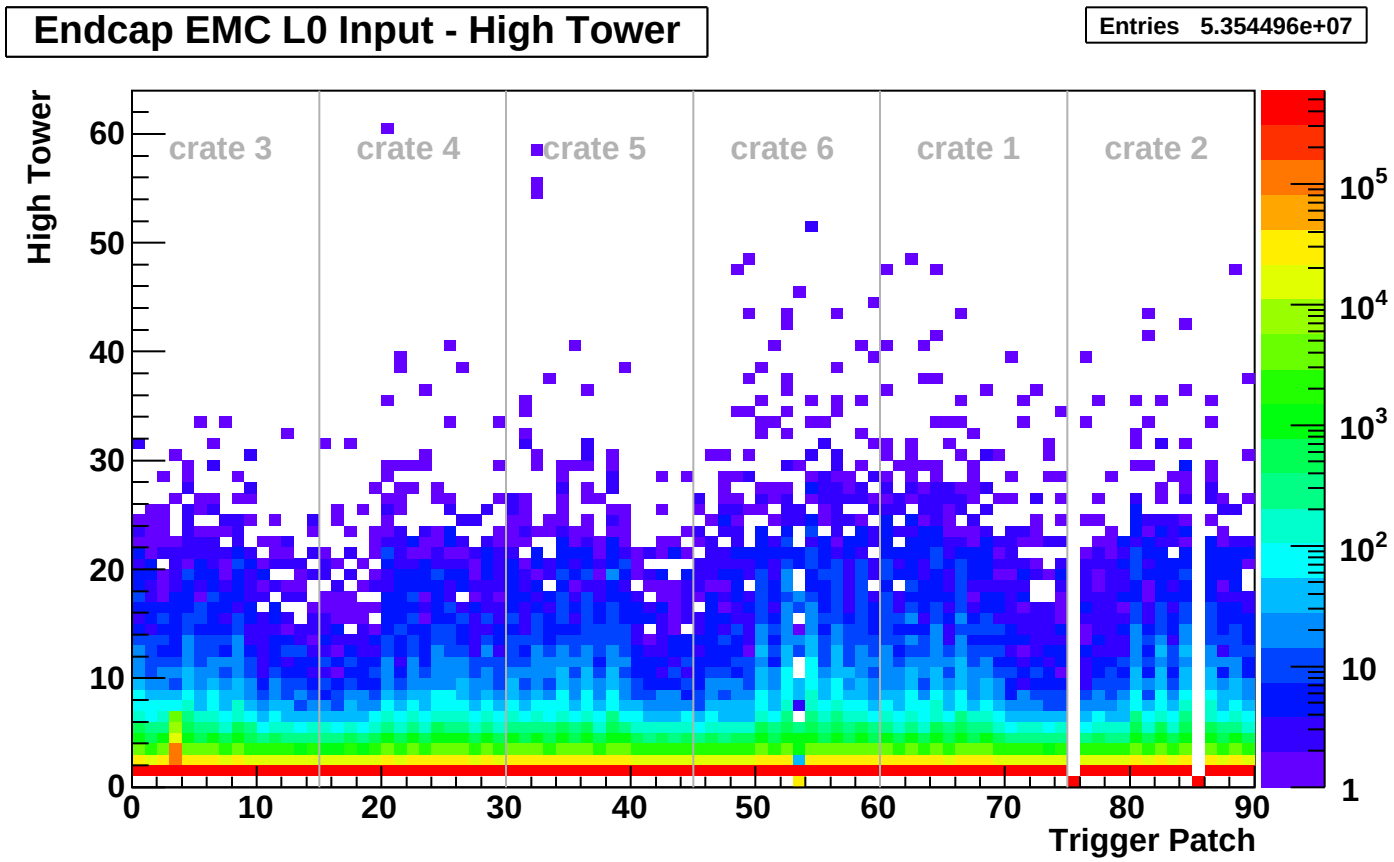
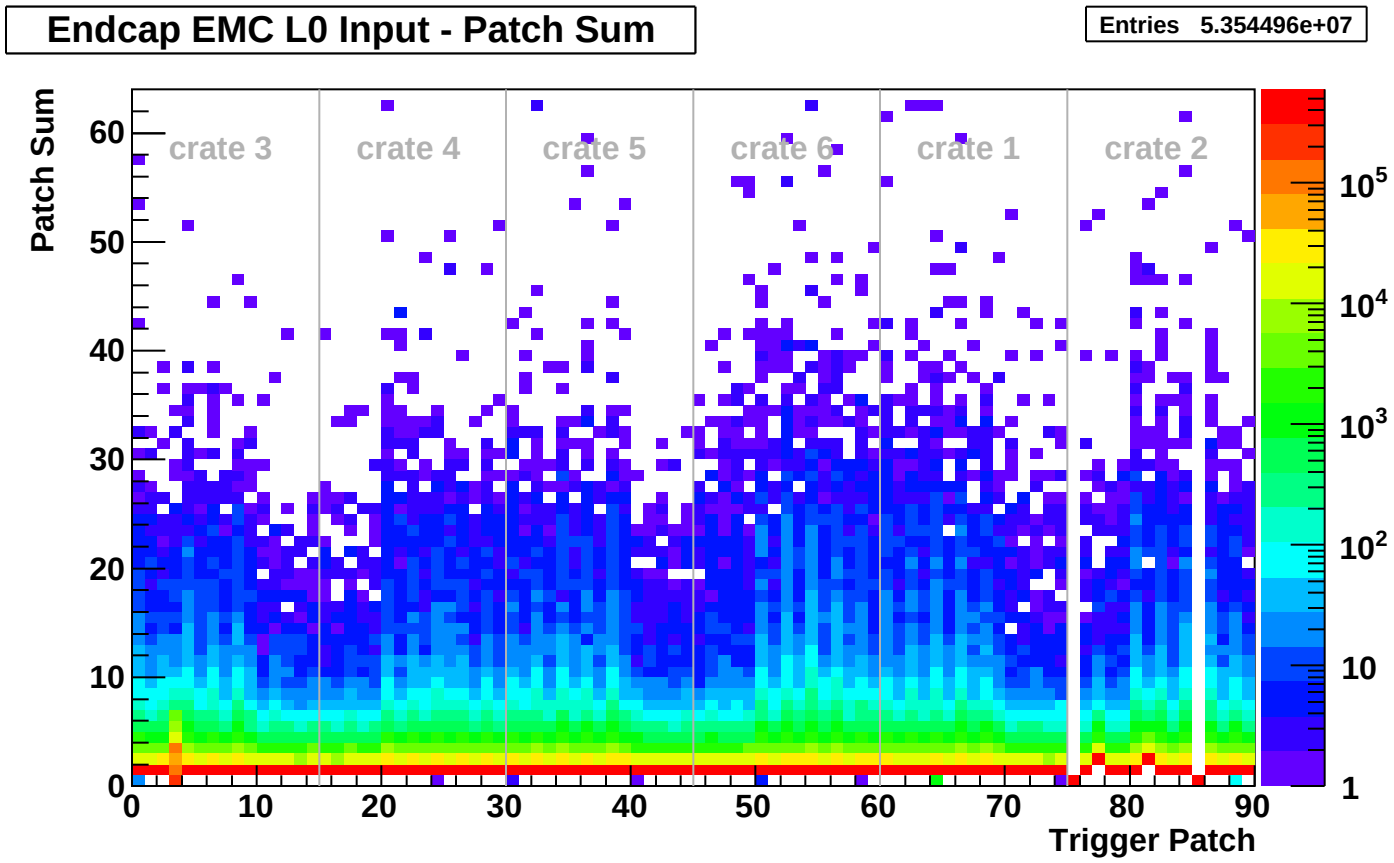
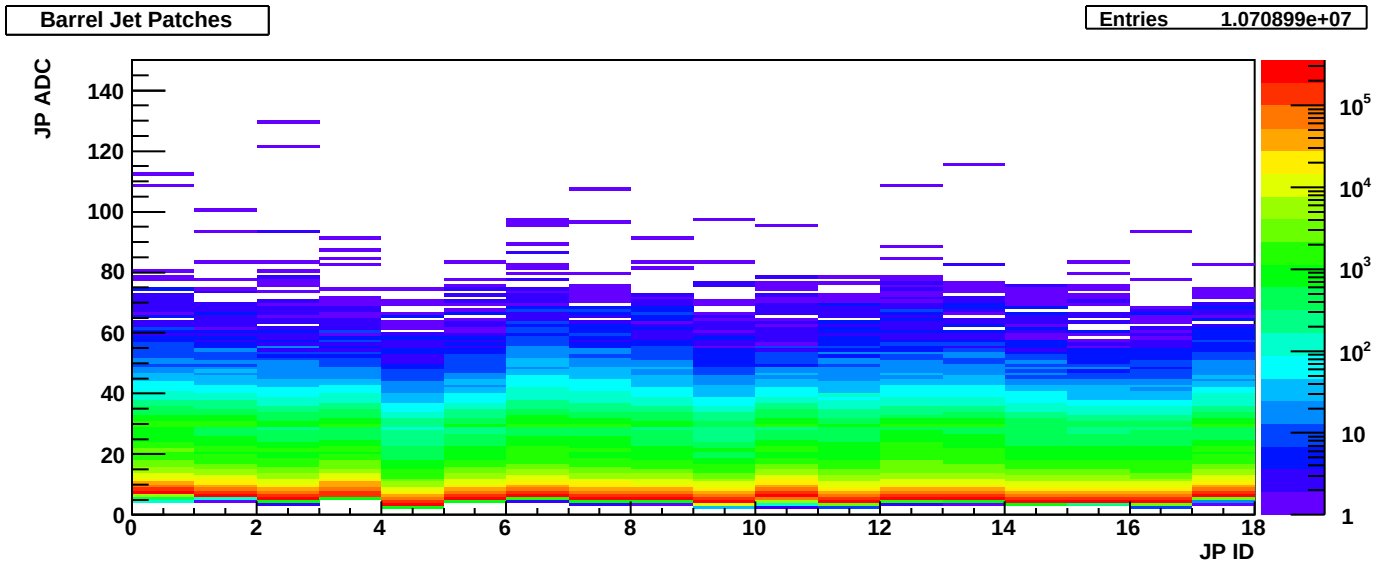
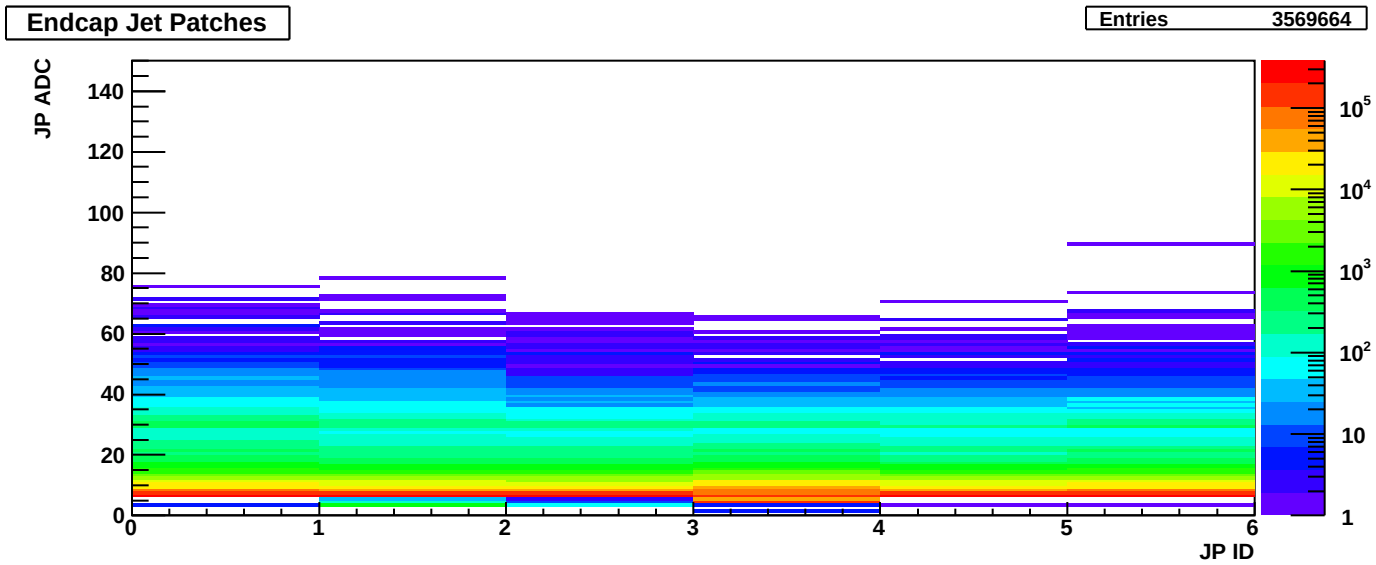

Barrel EMC L0 Input - High Tower
Entries 1.784832e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

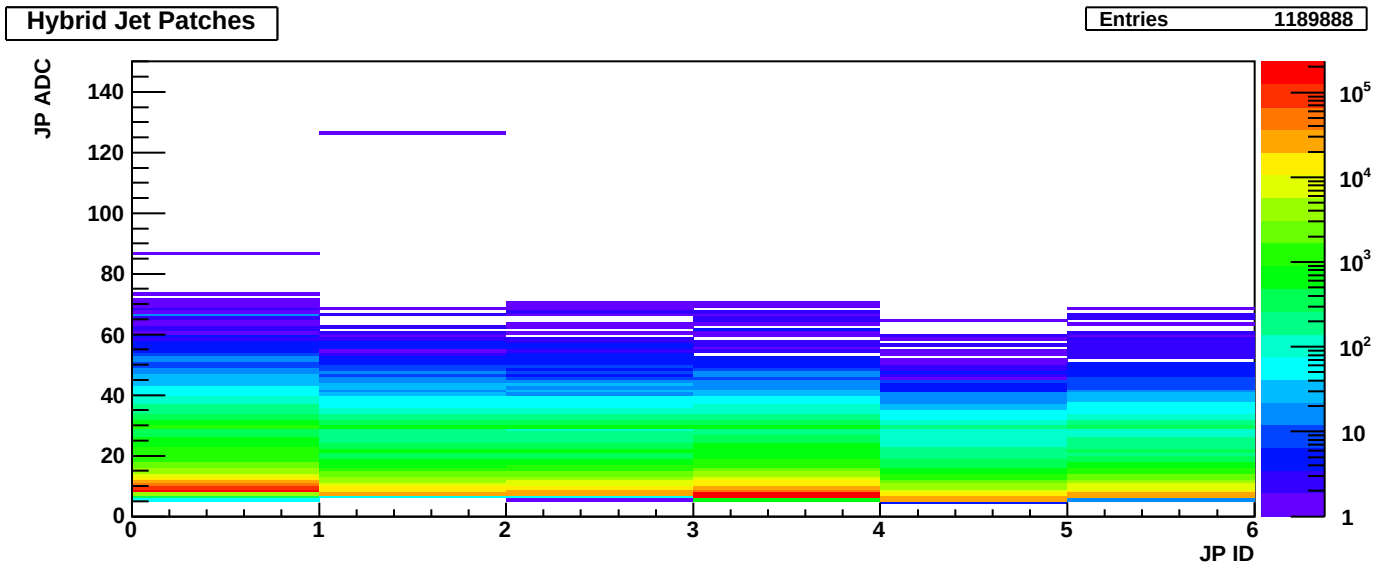

Barrel EMC L0 Input - Patch Sum
Entries 1.784832e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

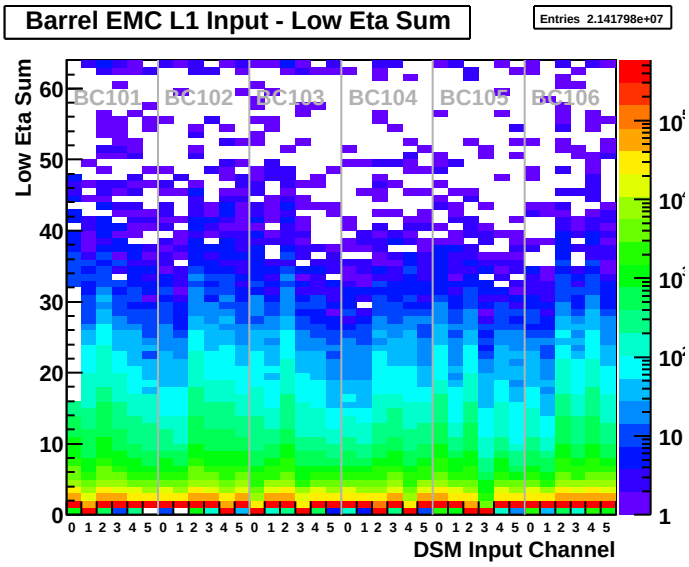

Endcap EMC L0 Input - High Tower
Entries 5.354496e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

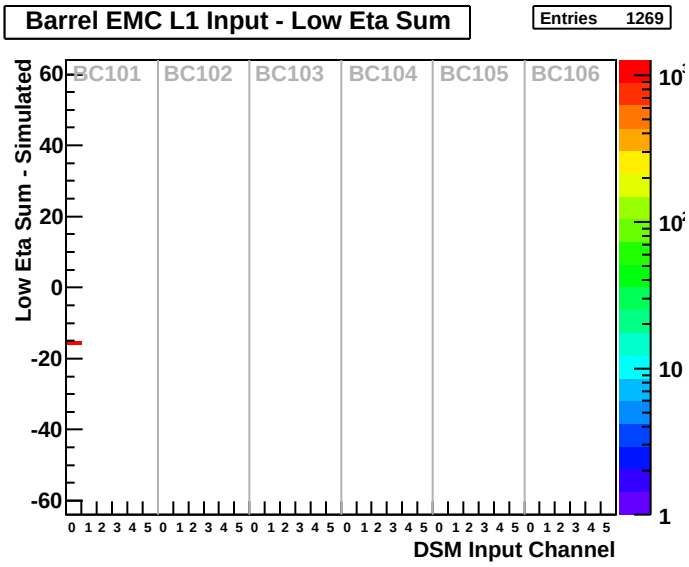

Endcap EMC L0 Input - Patch Sum
Entries 5.354496e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

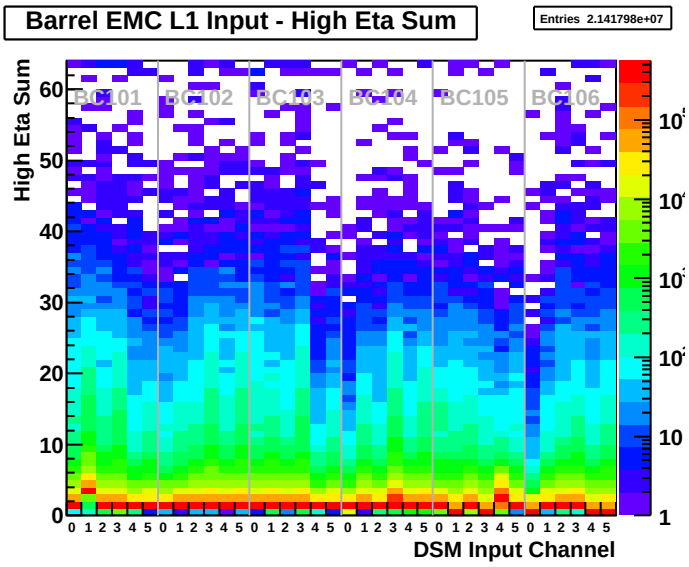

Barrel Jet Patches
Entries 1.070899e+07
JP ADC
JP ID

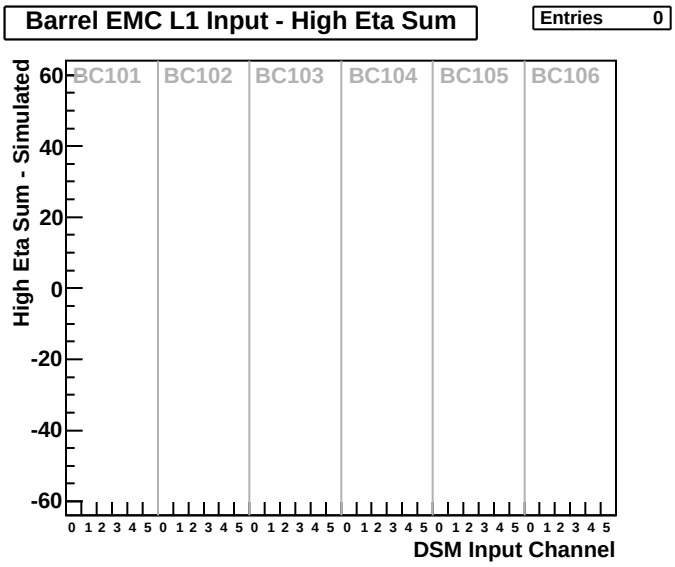

Endcap Jet Patches
Entries 3569664
JP ADC
JP ID

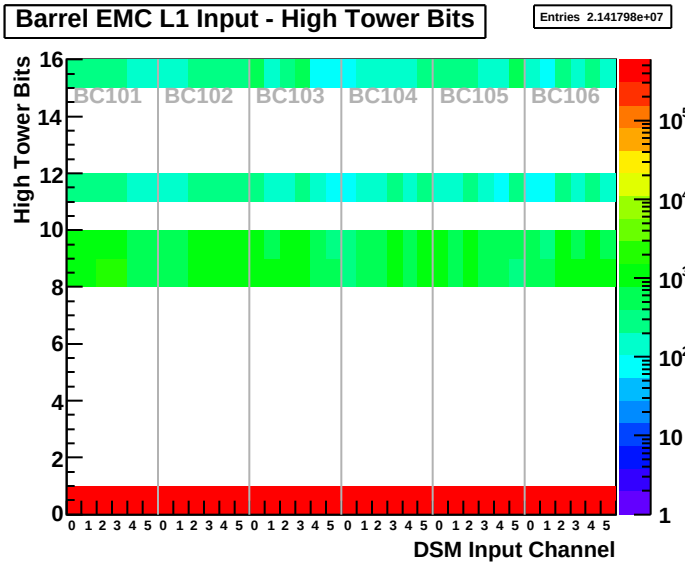

Hybrid Jet Patches
Entries 1189888
JP ADC
JP ID

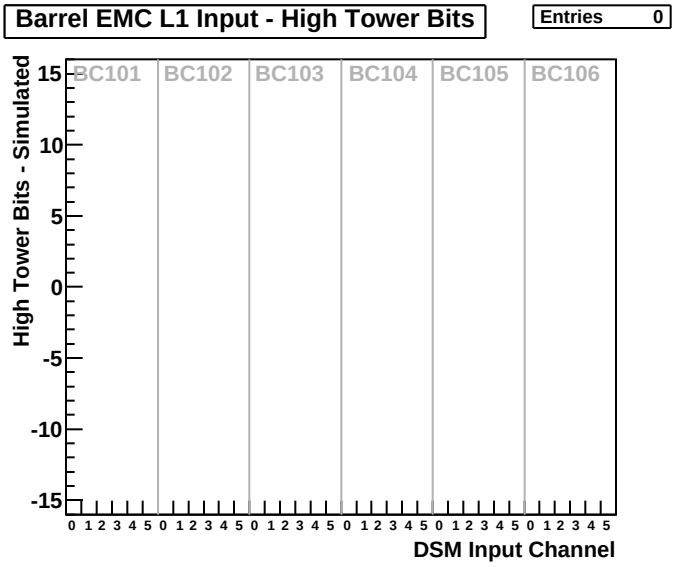

Barrel EMC L1 Input - Low Eta Sum
Entries 2.141798e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

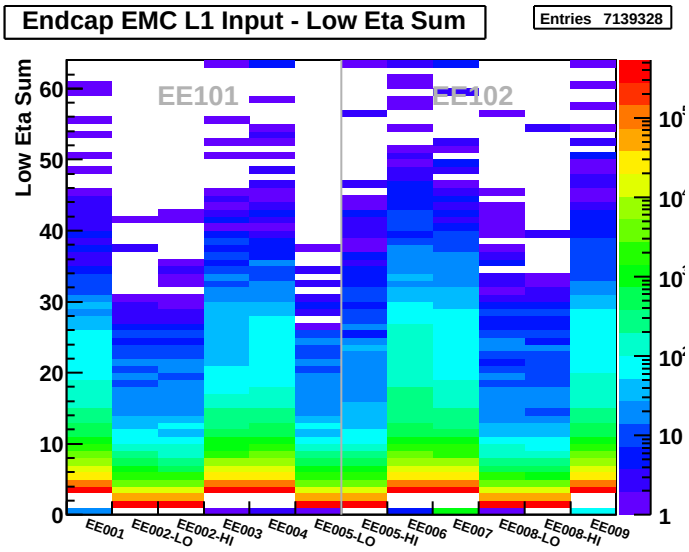

Barrel EMC L1 Input - Low Eta Sum
Entries 1269
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

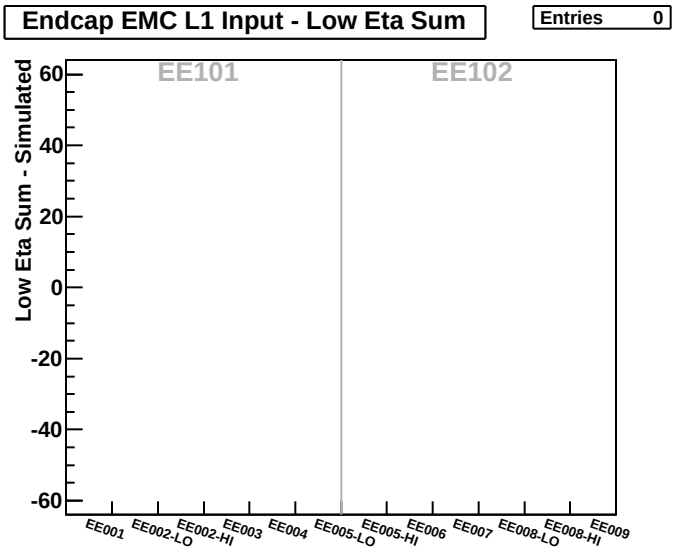

Barrel EMC L1 Input - High Eta Sum
Entries 2.141798e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

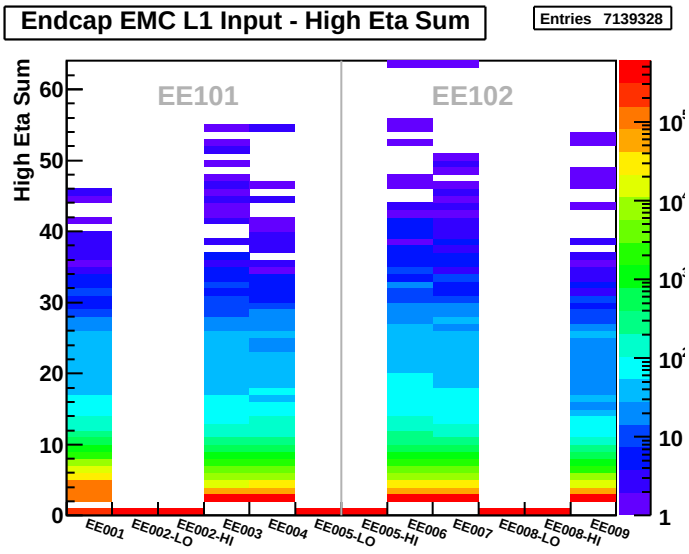

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

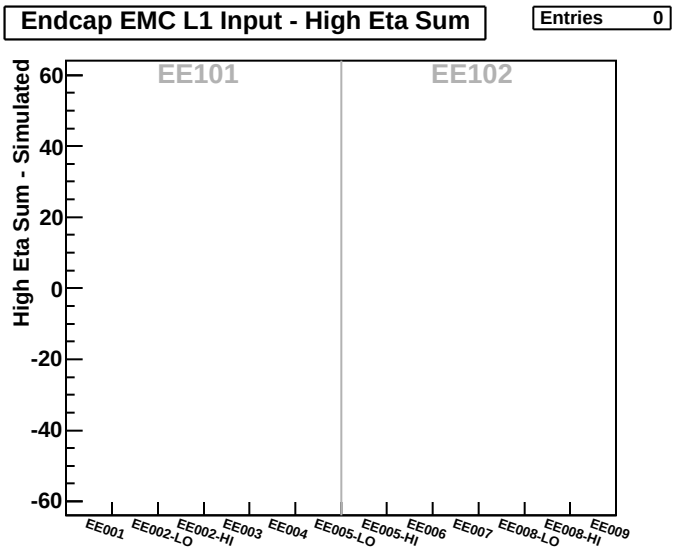

Barrel EMC L1 Input - High Tower Bits
Entries 2.141798e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

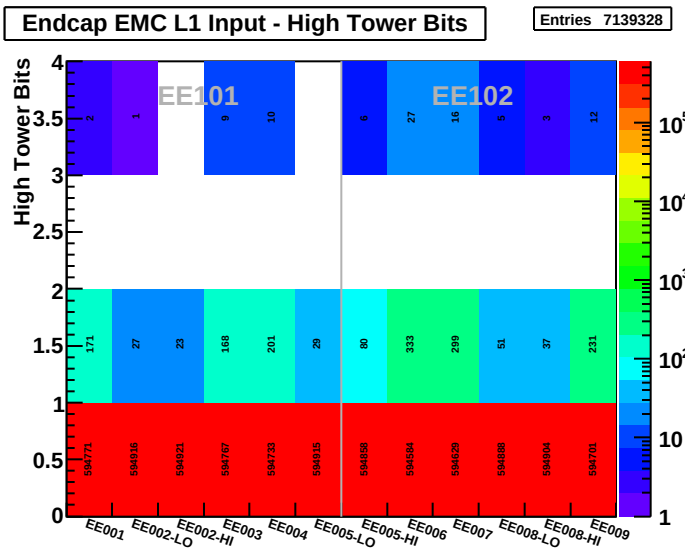

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

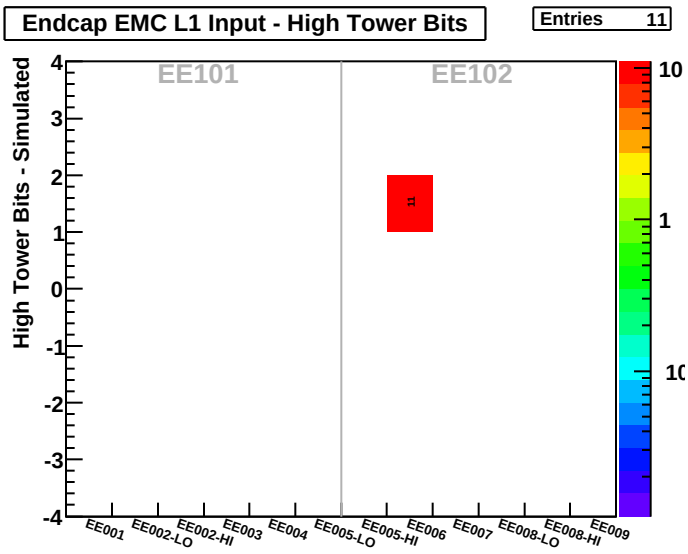

Endcap EMC L1 Input - Low Eta Sum
Entries 7139328
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

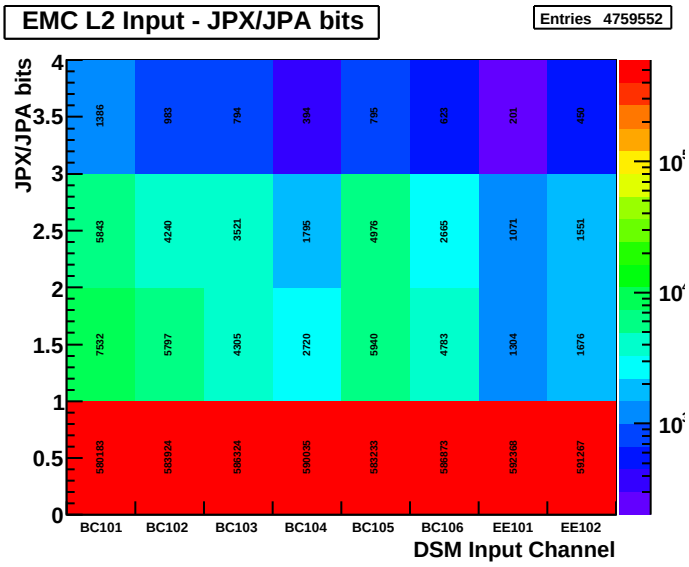

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

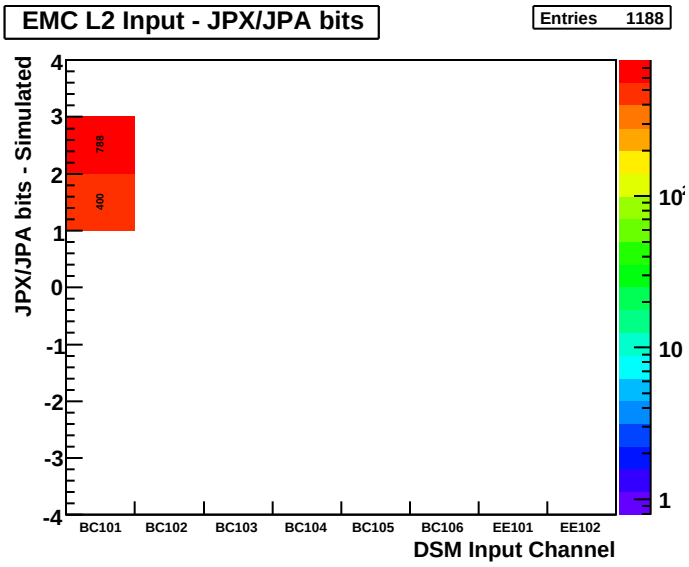

Endcap EMC L1 Input - High Eta Sum
Entries 7139328
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

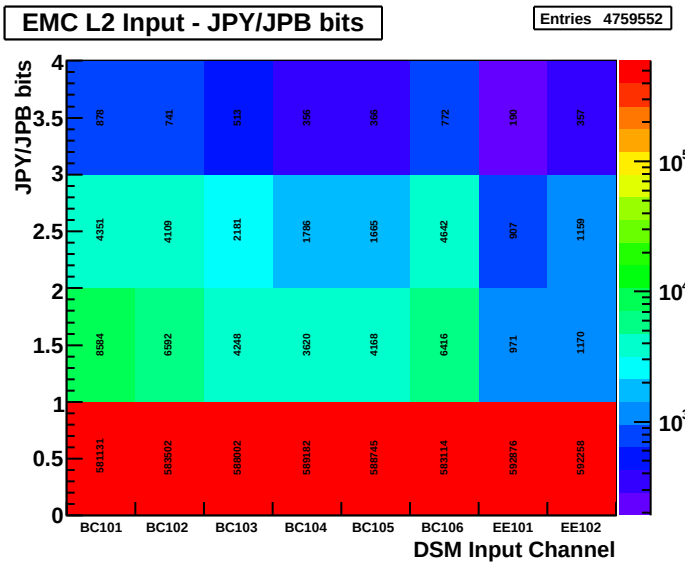

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

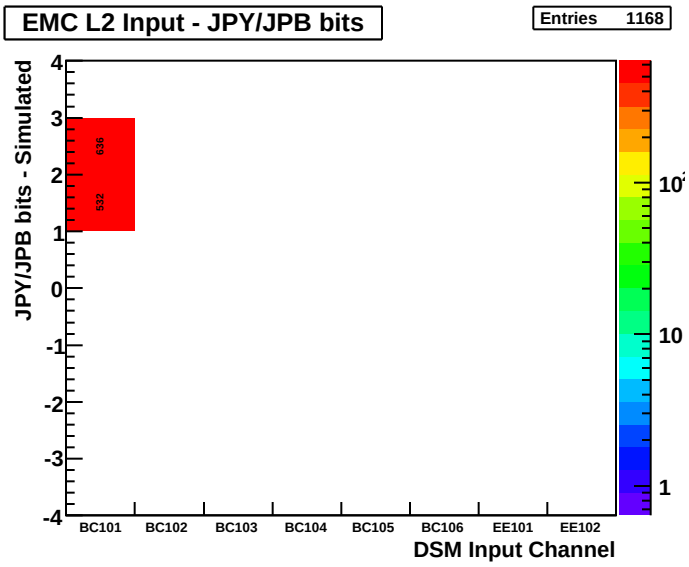

Endcap EMC L1 Input - High Tower Bits
Entries 7139328
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

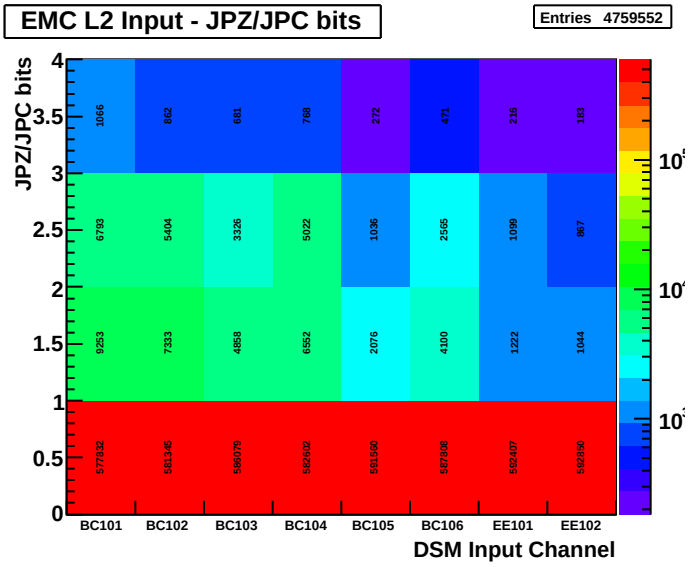

Endcap EMC L1 Input - High Tower Bits
Entries 11
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

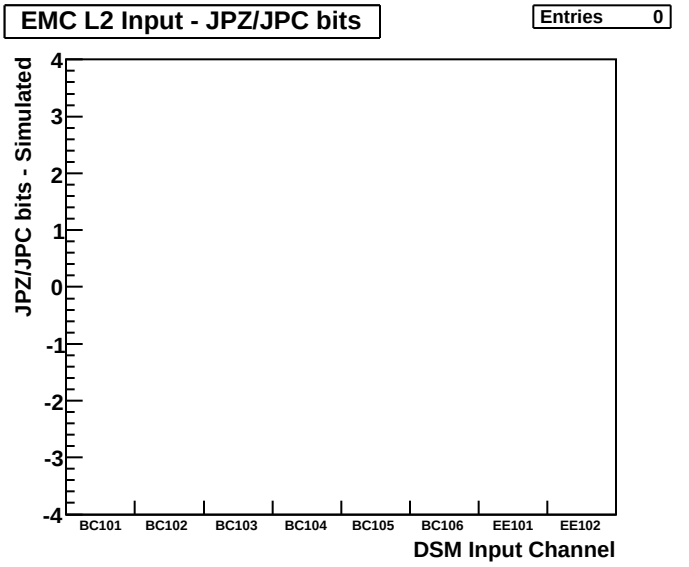

EMC L2 Input - JPX/JPA bits
Entries 4759552
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1386 983 794 394 795 623 201 450
5843 4240 3521 1795 4976 2665 1071 1551
7532 5797 4305 2720 5940 4783 1304 1676
580163 583924 588324 590035 583233 586873 592368 591267

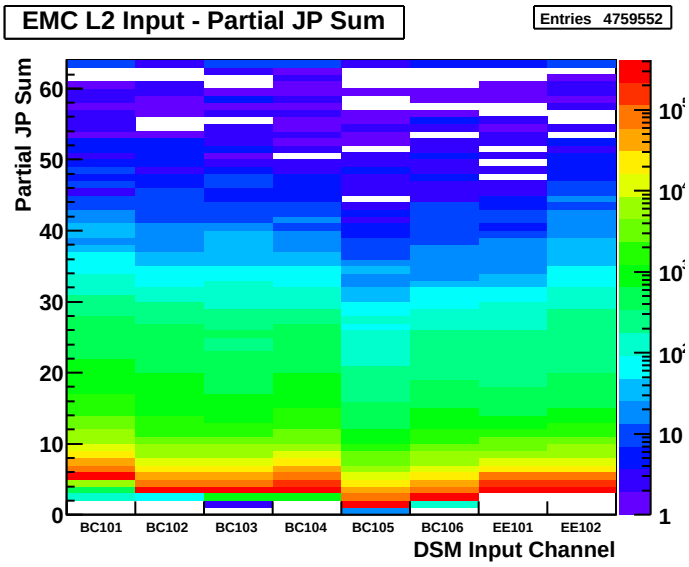

EMC L2 Input - JPX/JPA bits
Entries 1188
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
788
400

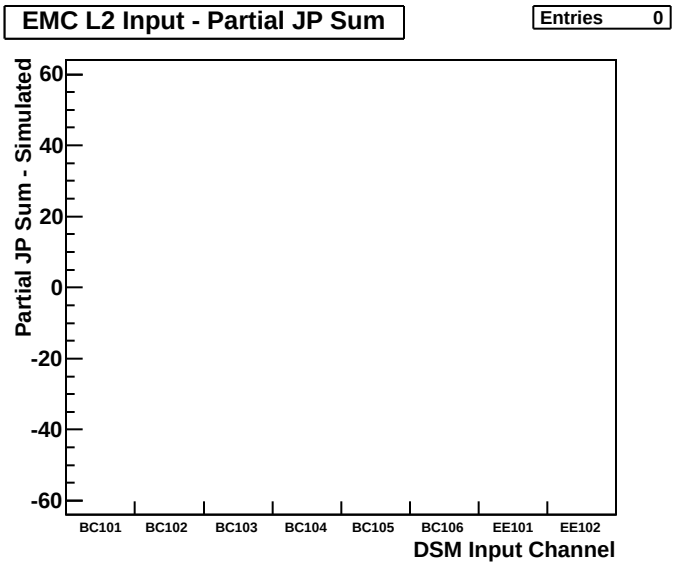

EMC L2 Input - JPY/JPB bits
Entries 4759552
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
878 741 513 356 366 772 190 357
4351 4109 2181 1786 1665 4642 907 1159
8884 6992 4248 3620 4168 6416 971 1170
581131 583502 588002 589182 589745 583114 592376 592258

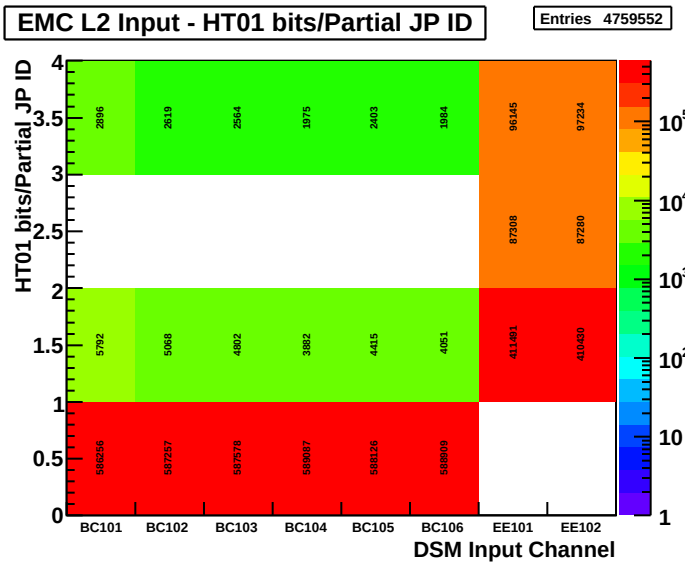

EMC L2 Input - JPY/JPB bits
Entries 1168
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
636
532

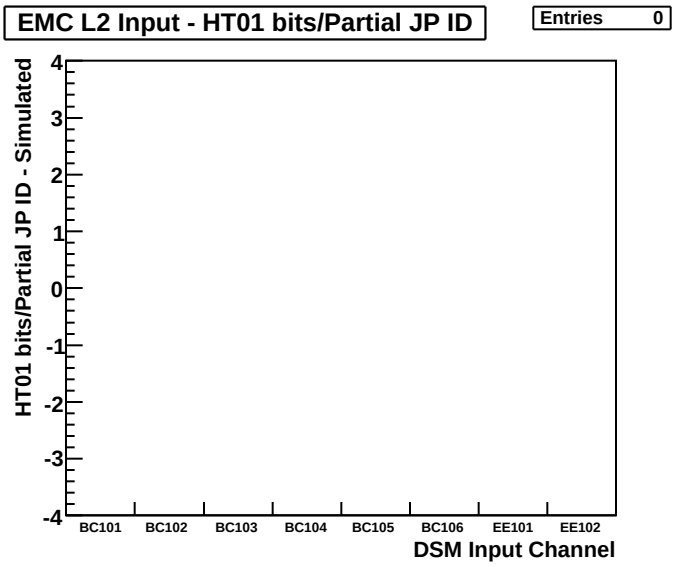

EMC L2 Input - JPZ/JPC bits
Entries 4759552
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1066 862 681 768 272 471 216 183
6793 5404 3326 5022 1036 2565 1099 867
9253 7333 4858 6552 2076 4100 1222 1044
577832 581345 586079 592602 591560 587808 592407 592850

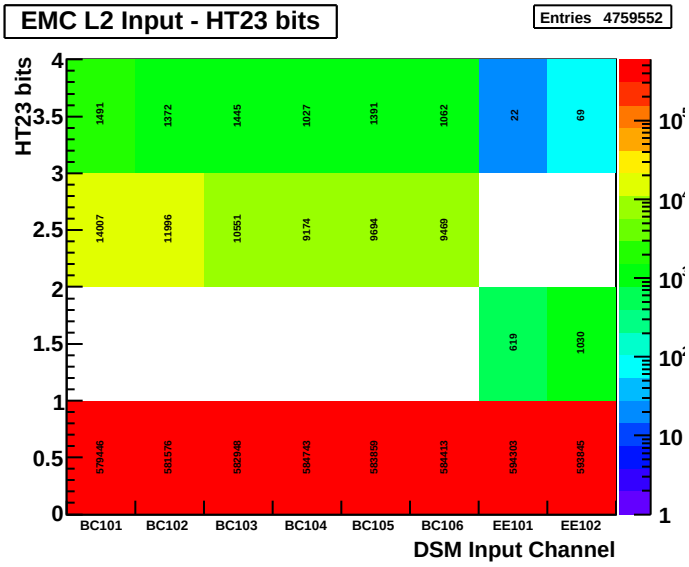

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

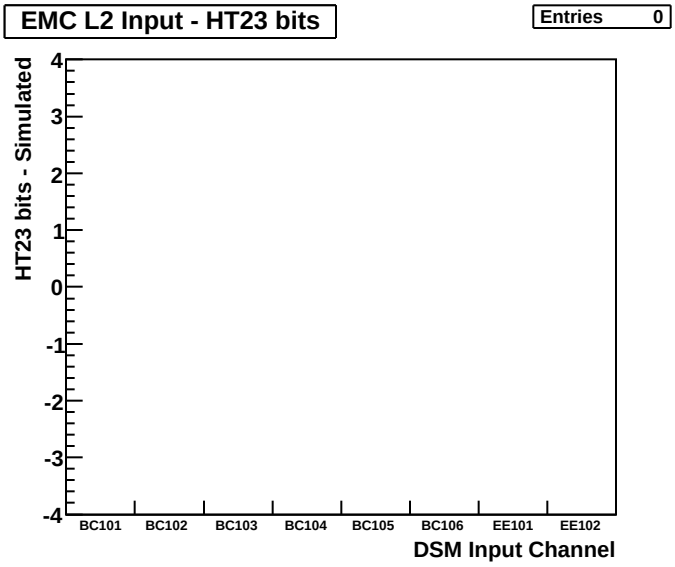

EMC L2 Input - Partial JP Sum
Entries 4759552
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

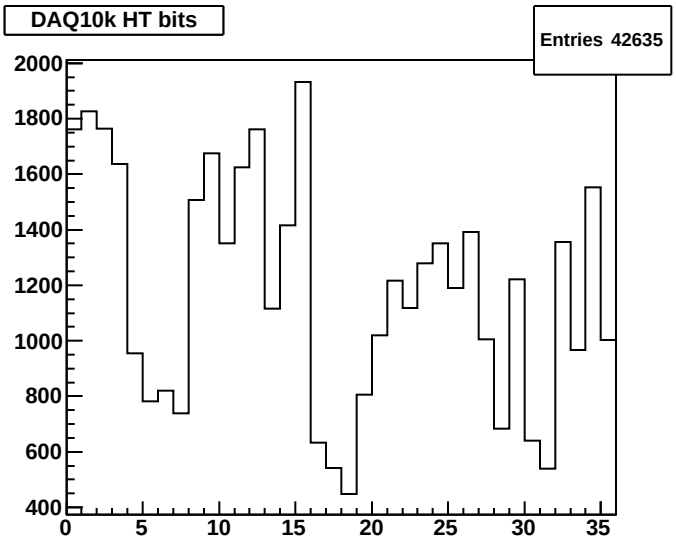

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

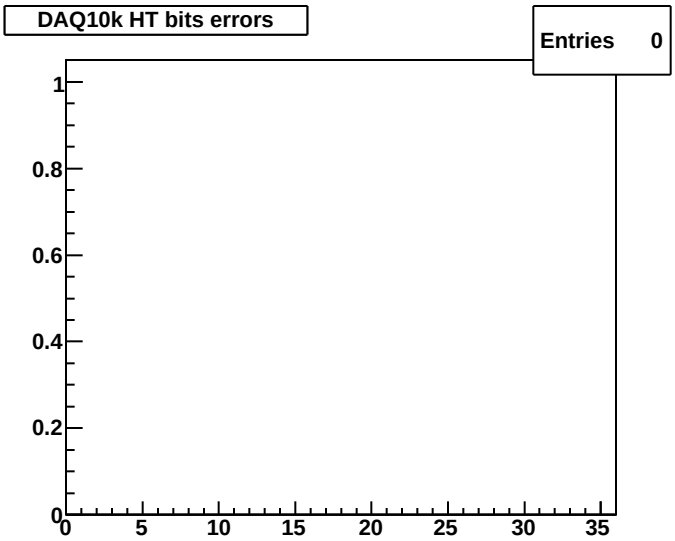

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4759552
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

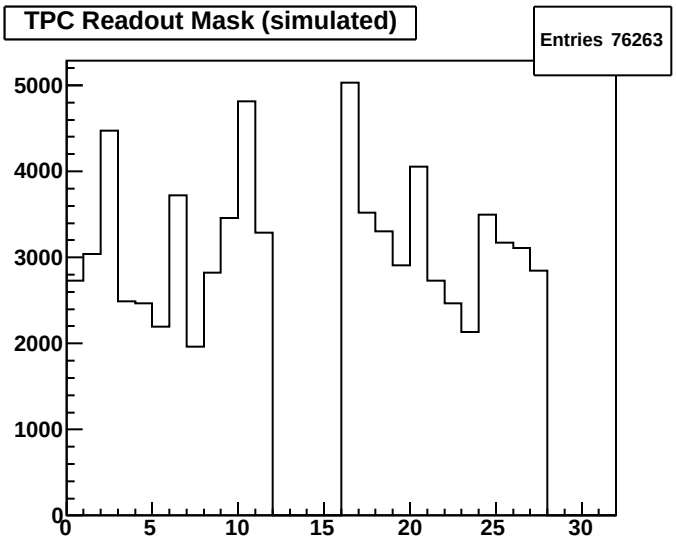

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

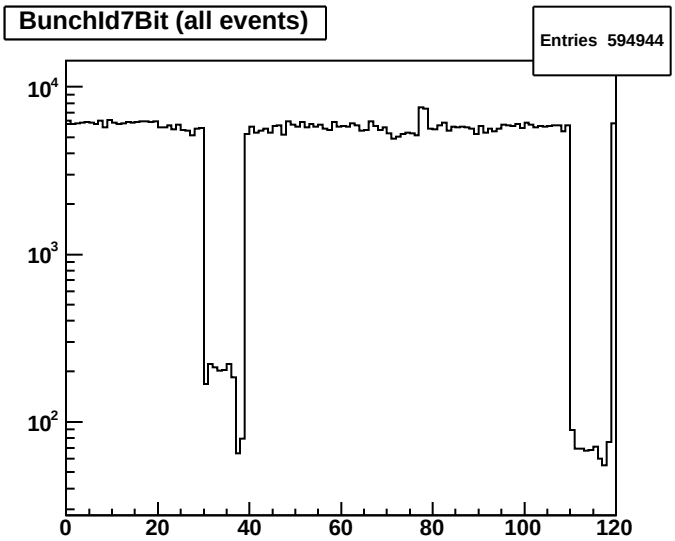

EMC L2 Input - HT23 bits
Entries 4759552
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

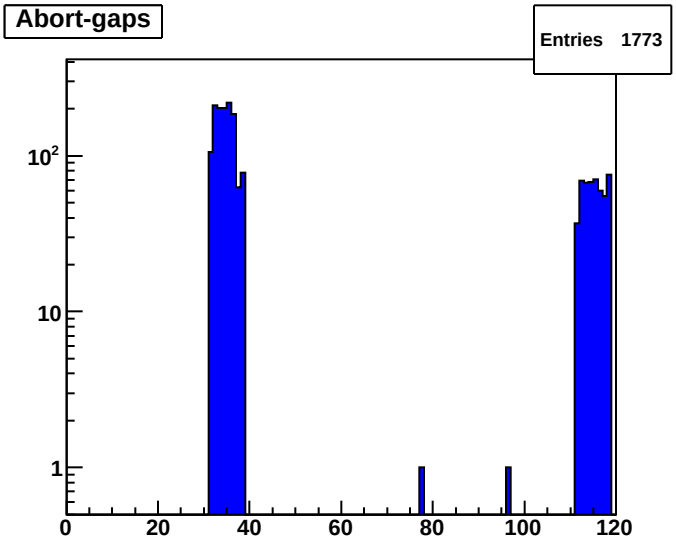

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

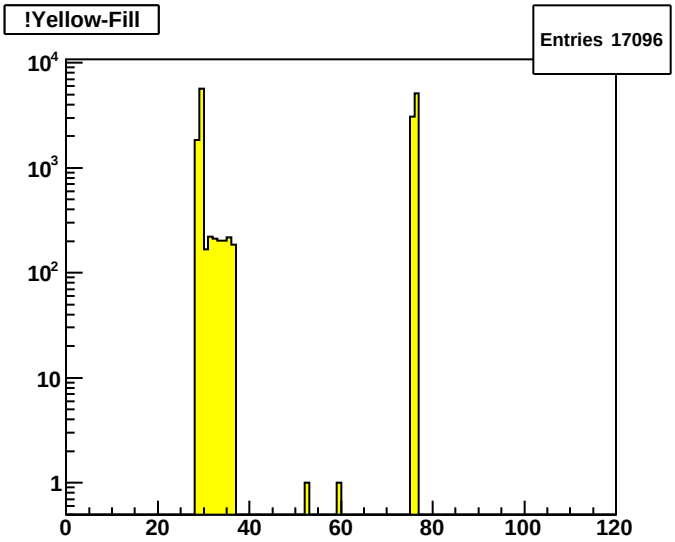

DAQ10k HT bits
Entries 42635

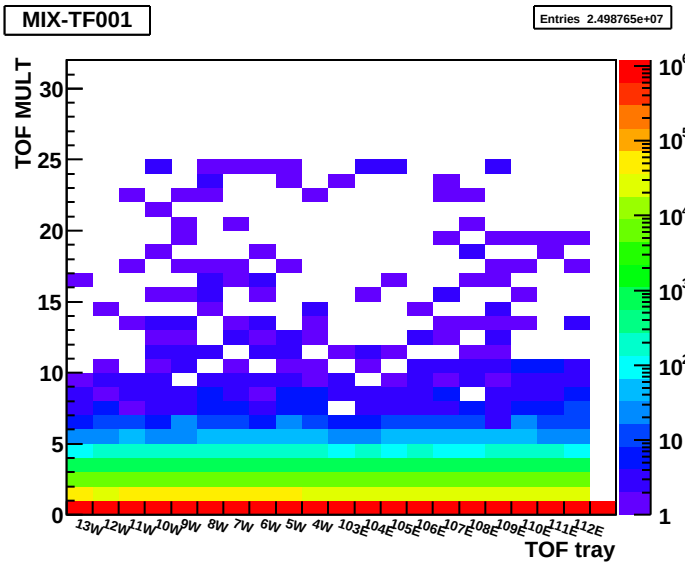

DAQ10k HT bits errors
Entries 0

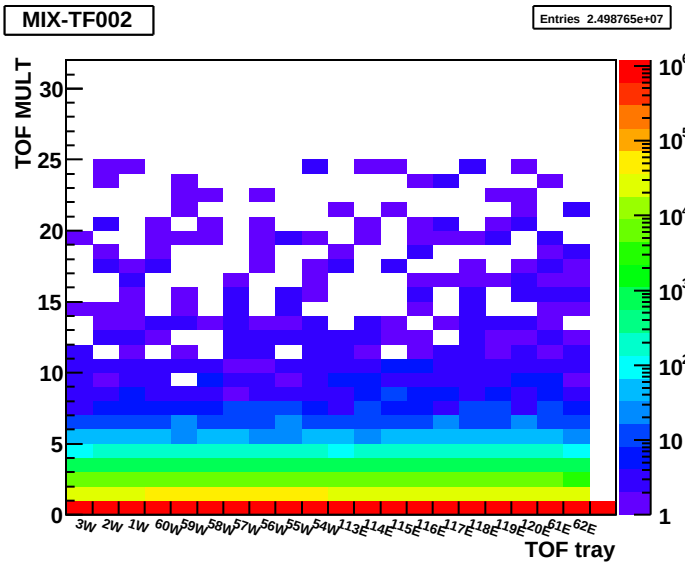

TPC Readout Mask (simulated)
Entries 76263

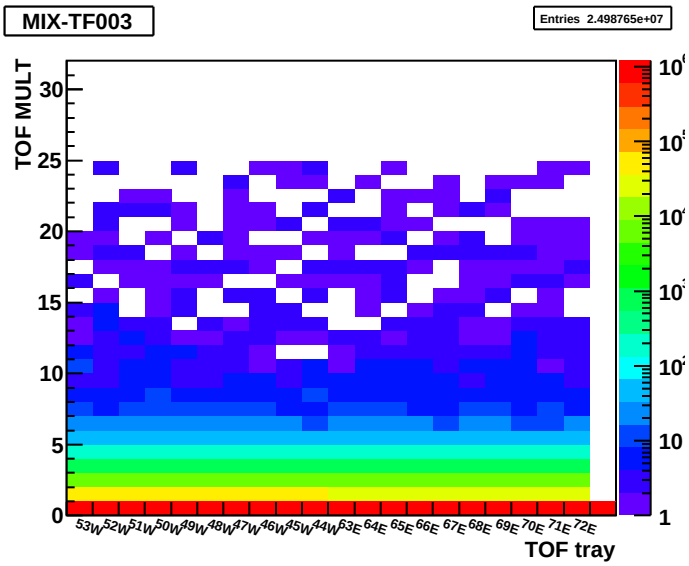

BunchId7Bit (all events)
Entries 594944

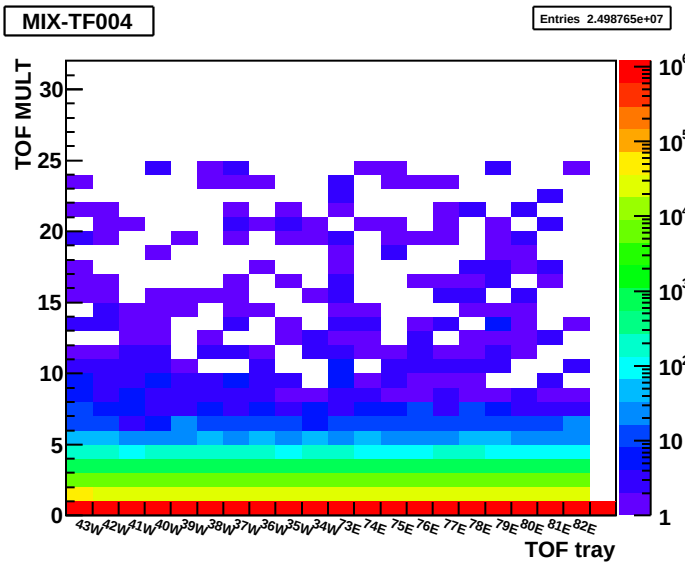

Abort-gaps
Entries 1773

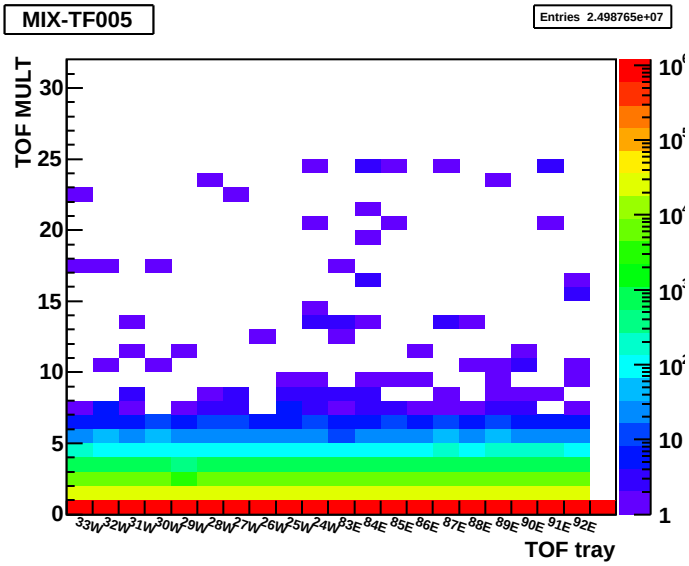

!Yellow-Fill
Entries 17096

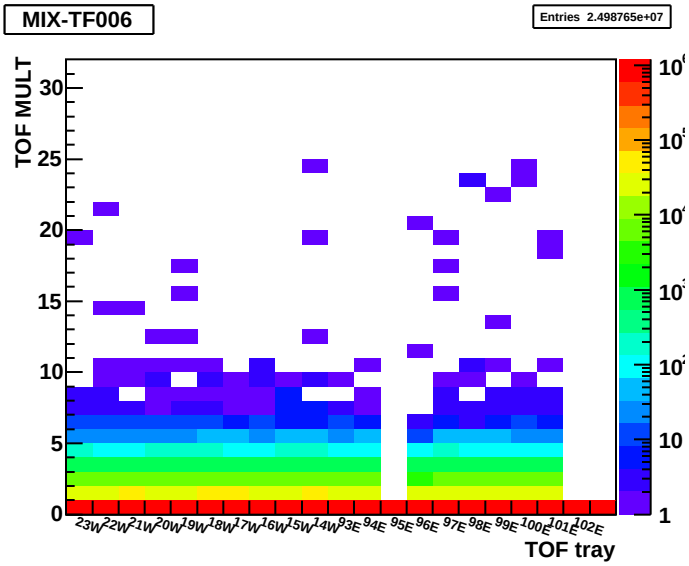

MIX-TF001
Entries 2.498765e+07
TOF MULT
TOF tray

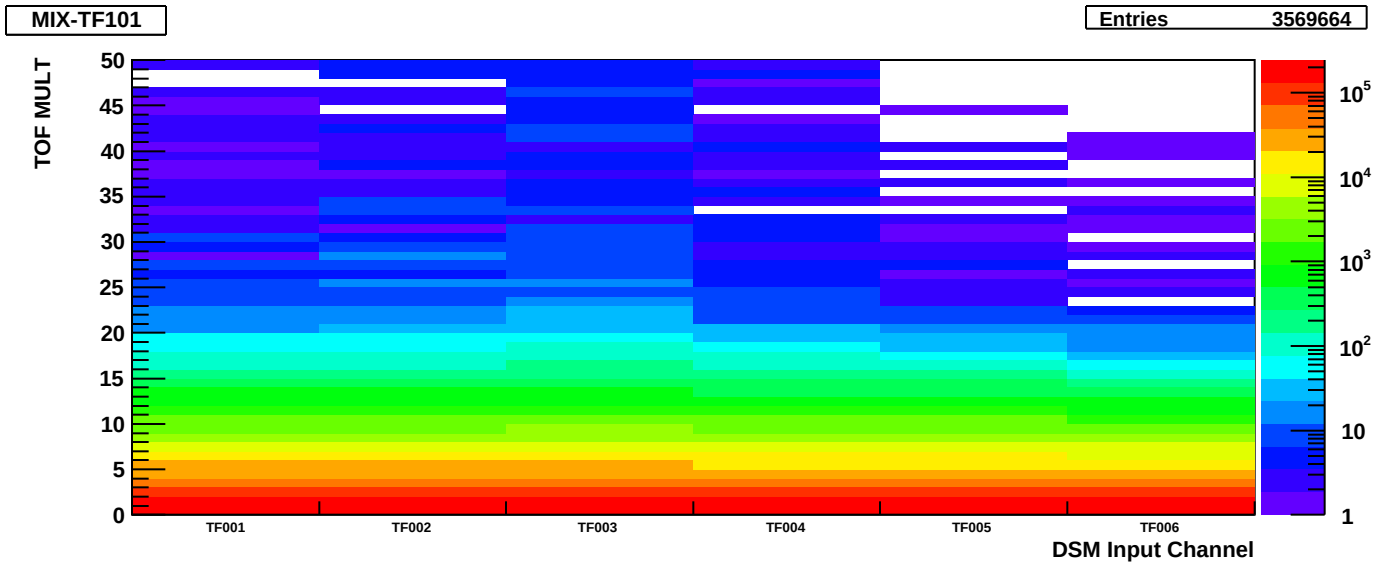

MIX-TF002
Entries 2.498765e+07
TOF MULT
TOF tray

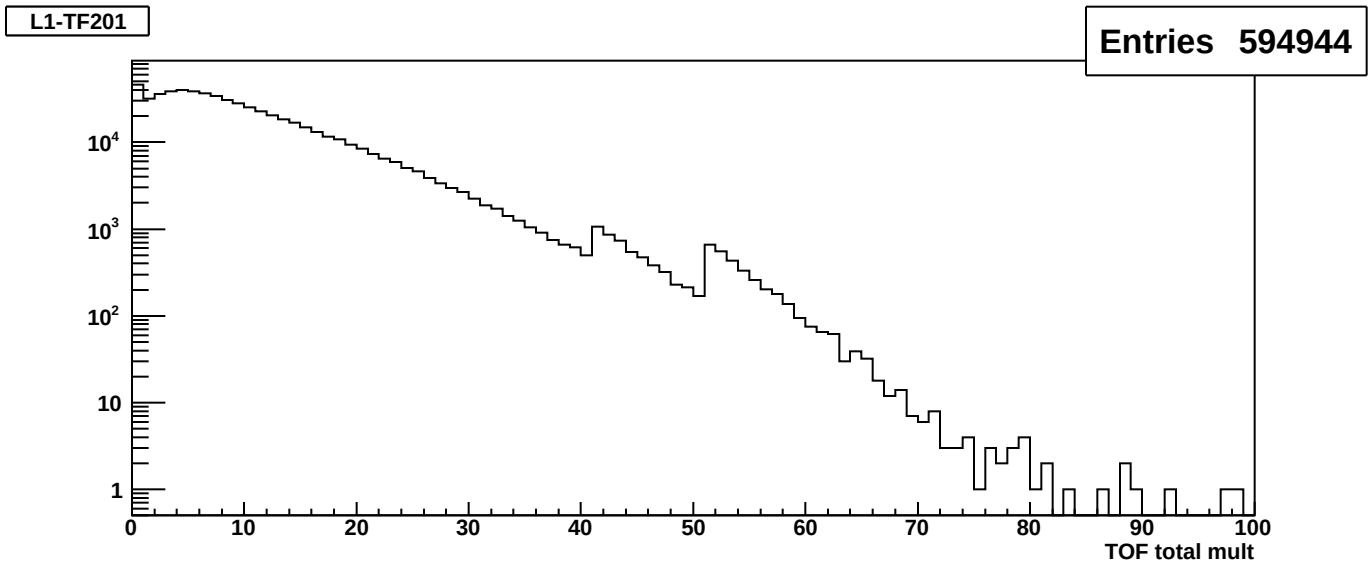

MIX-TF003
Entries 2.498765e+07
TOF MULT
TOF tray

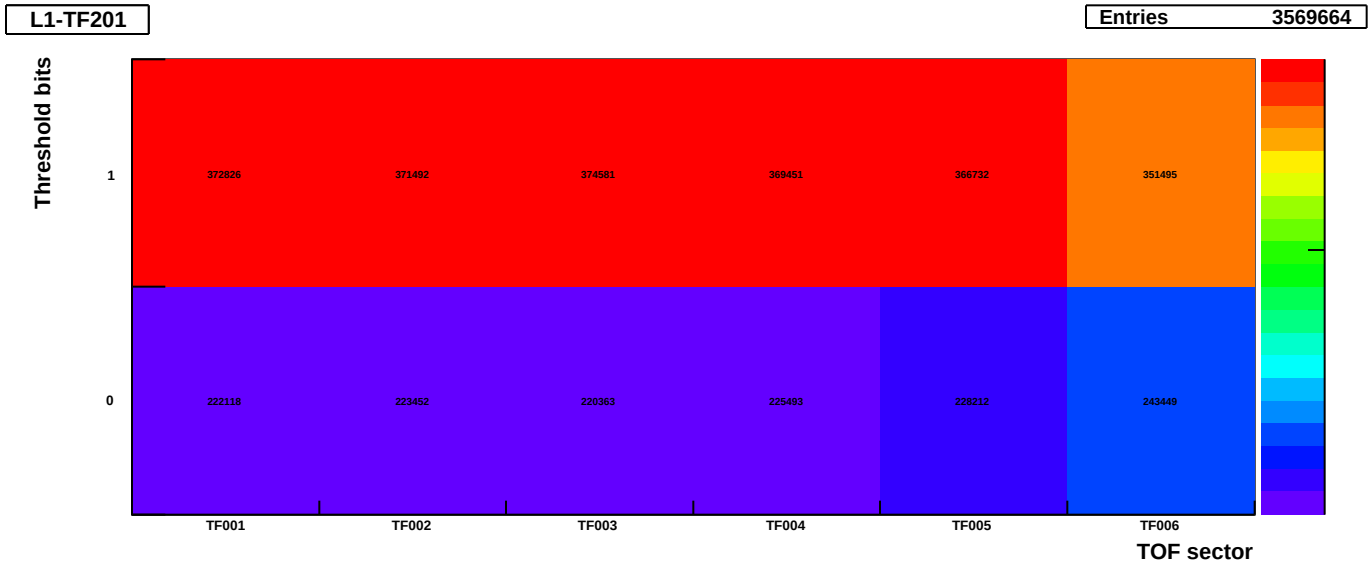

MIX-TF004
Entries 2.498765e+07
TOF MULT
TOF tray

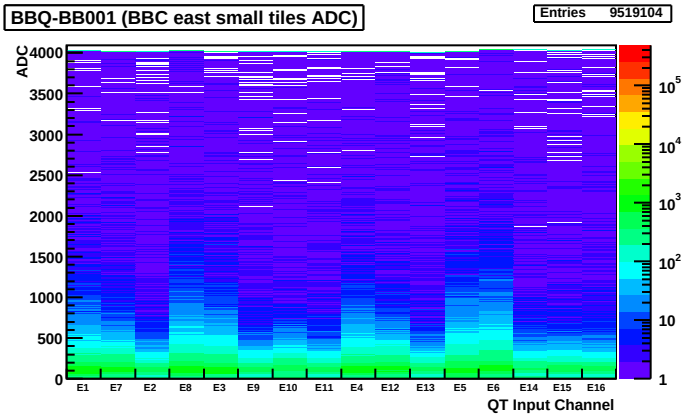

MIX-TF005
Entries 2.498765e+07
TOF MULT
TOF tray

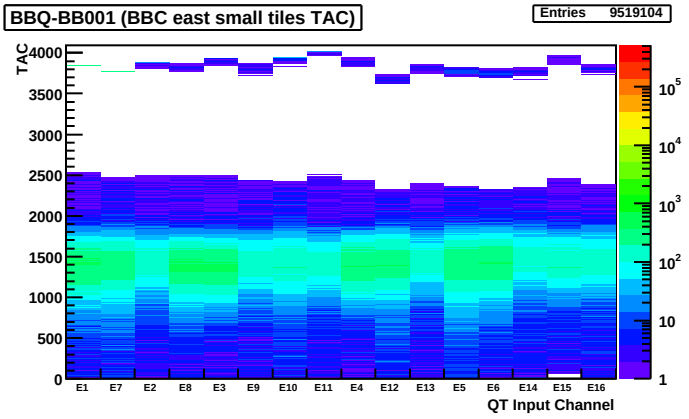

MIX-TF006
Entries 2.498765e+07
TOF MULT
TOF tray

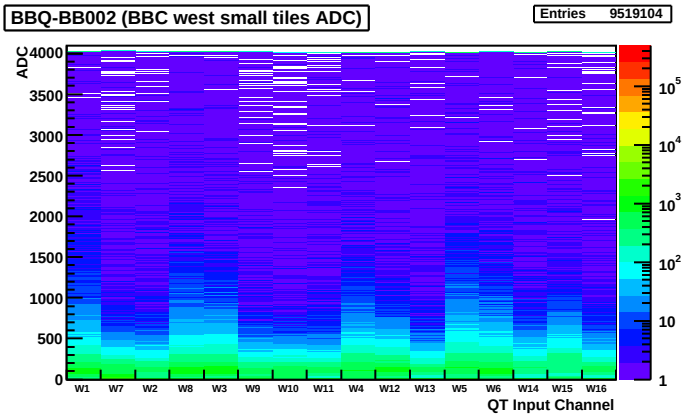

MIX-TF101
Entries 3569664
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

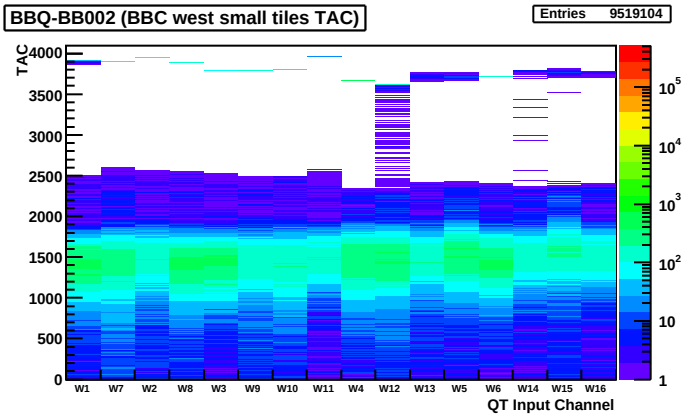

L1-TF201
Entries 594944
TOF total mult

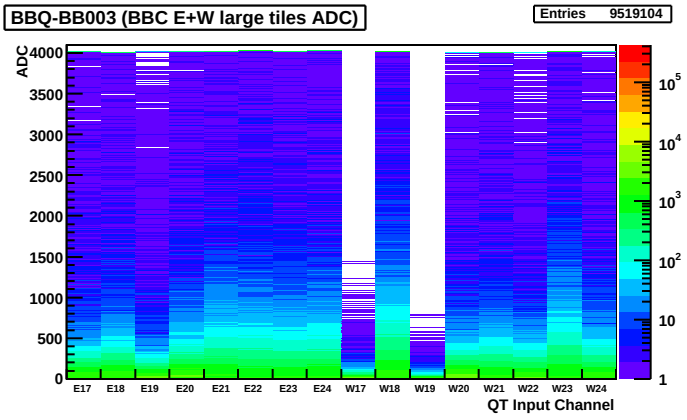

L1-TF201
Entries 3569664
Threshold bits
372826
371492
374581
369451
366732
351495
222118
223452
220363
225493
228212
243449
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

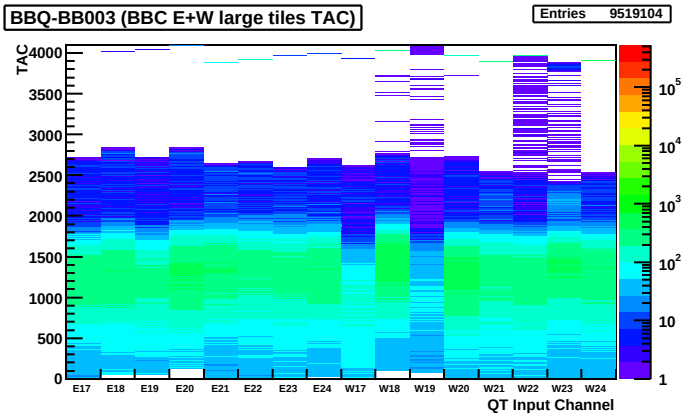

BBQ-BB001 (BBC east small tiles ADC)
Entries 9519104
ADC
QT Input Channel

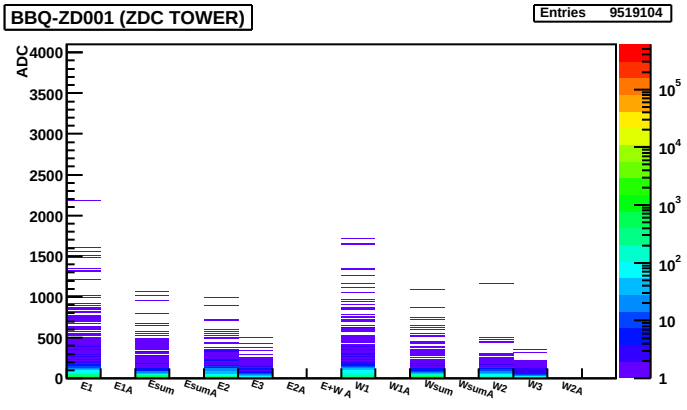

BBQ-BB001 (BBC east small tiles TAC)
Entries 9519104
TAC
QT Input Channel

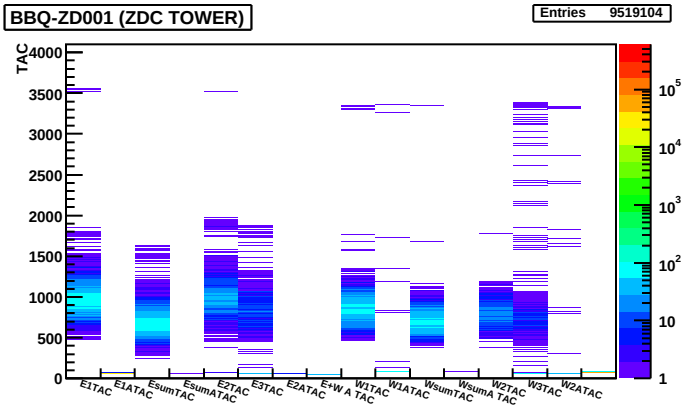

BBQ-BB002 (BBC west small tiles ADC)
Entries 9519104
ADC
QT Input Channel

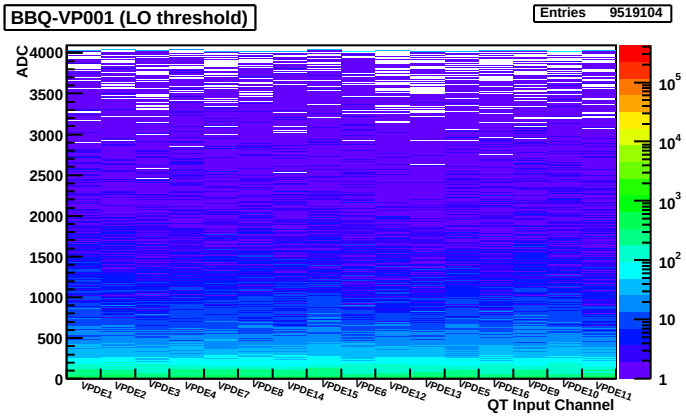

BBQ-BB002 (BBC west small tiles TAC)
Entries 9519104
TAC
QT Input Channel

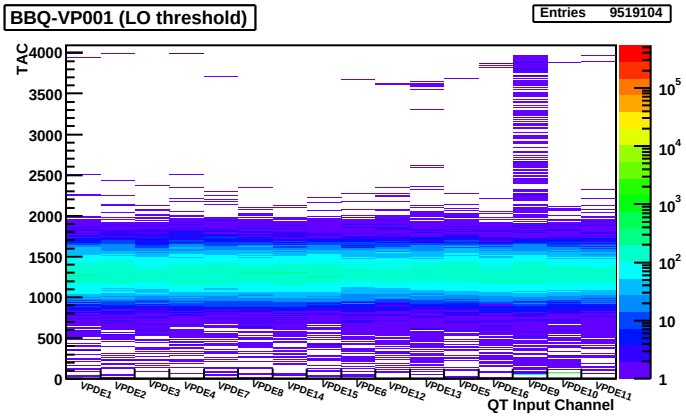

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9519104
ADC
QT Input Channel

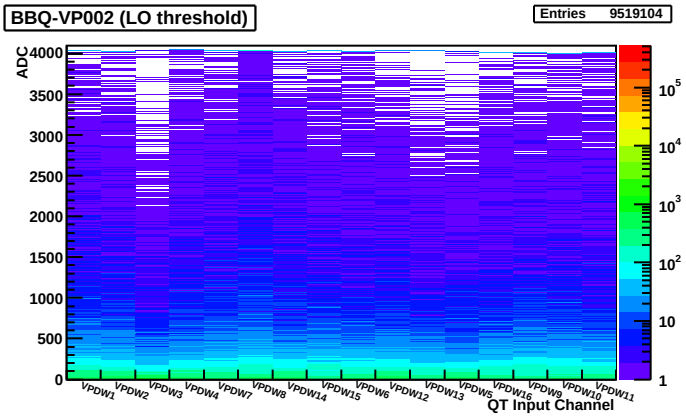

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9519104
TAC
QT Input Channel

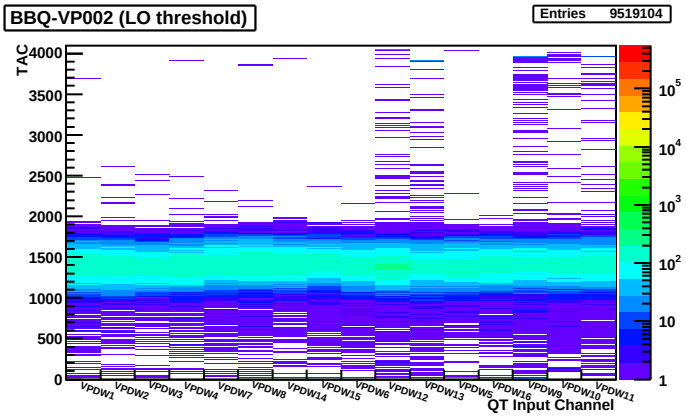

BBQ-ZD001 (ZDC TOWER)
Entries 9519104
ADC

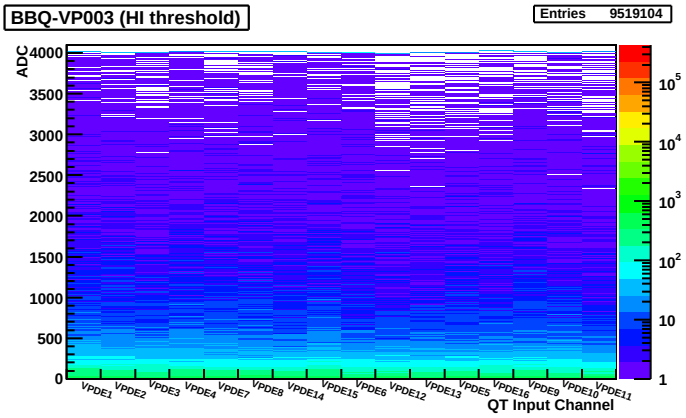

BBQ-ZD001 (ZDC TOWER)
Entries 9519104
TAC

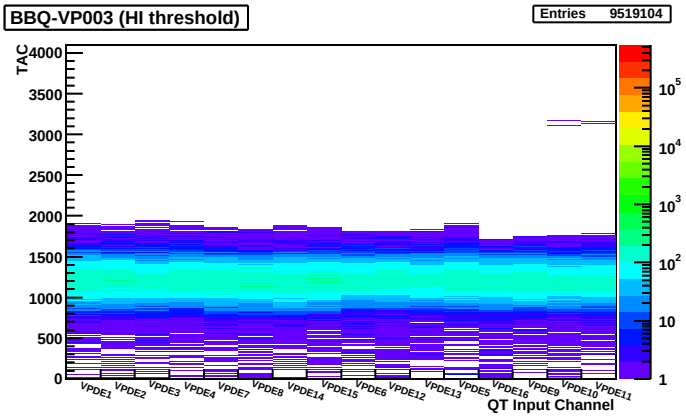

BBQ-VP001 (LO threshold)
Entries 9519104
ADC
QT Input Channel

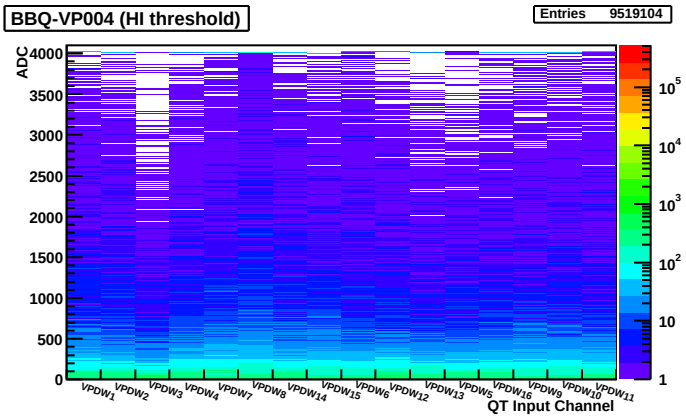

BBQ-VP001 (LO threshold)
Entries 9519104
TAC
QT Input Channel

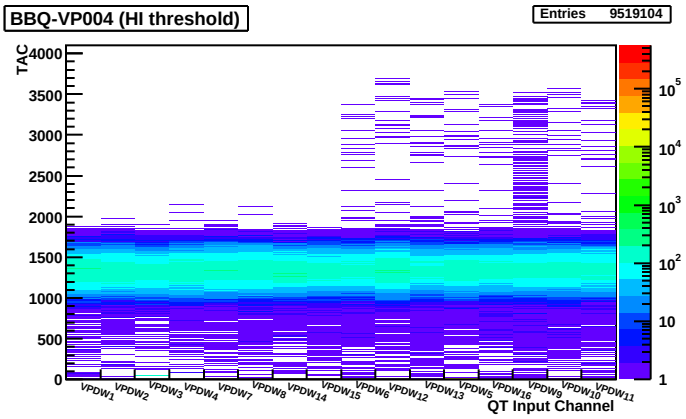

BBQ-VP002 (LO threshold)
Entries 9519104
ADC
QT Input Channel

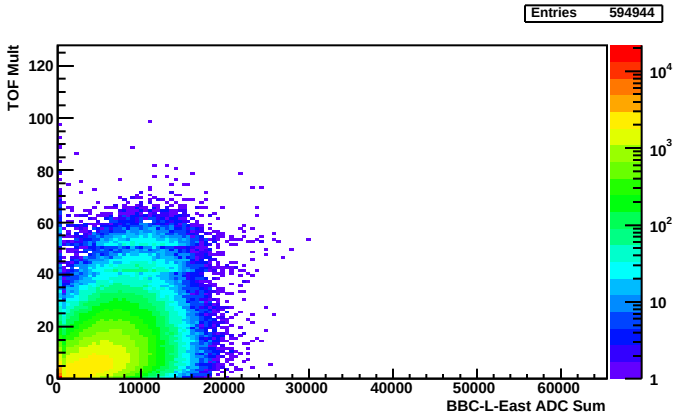

BBQ-VP002 (LO threshold)
Entries 9519104
TAC
QT Input Channel

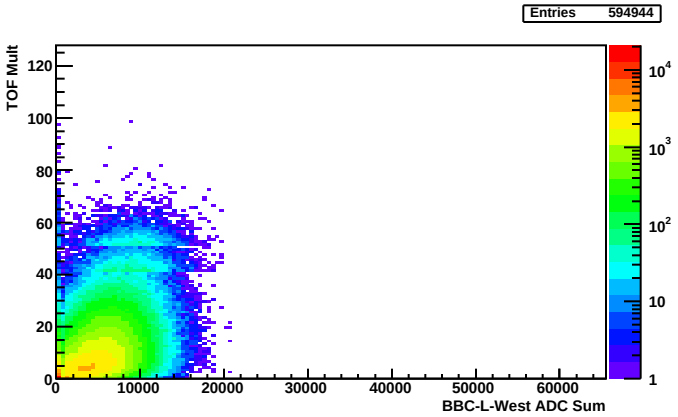

BBQ-VP003 (HI threshold)
Entries 9519104
ADC
QT Input Channel

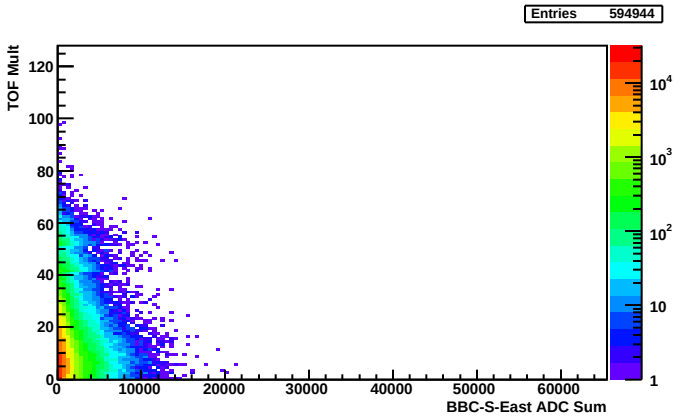

BBQ-VP003 (HI threshold)
Entries 9519104
TAC
QT Input Channel

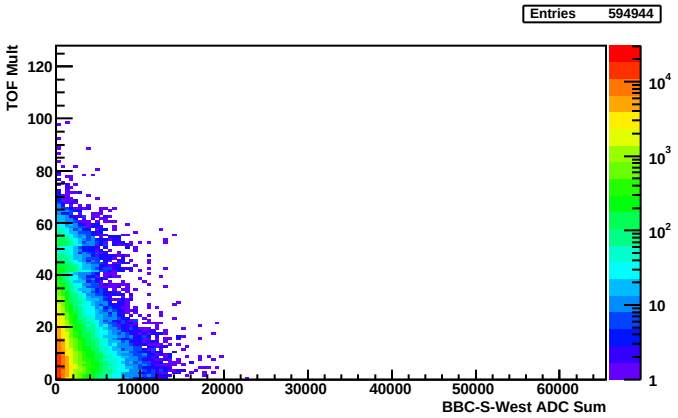

BBQ-VP004 (HI threshold)
Entries 9519104
ADC
QT Input Channel

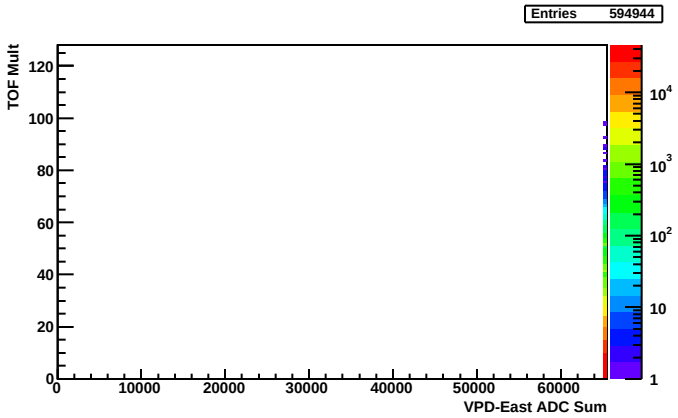

BBQ-VP004 (HI threshold)
Entries 9519104
TAC
QT Input Channel

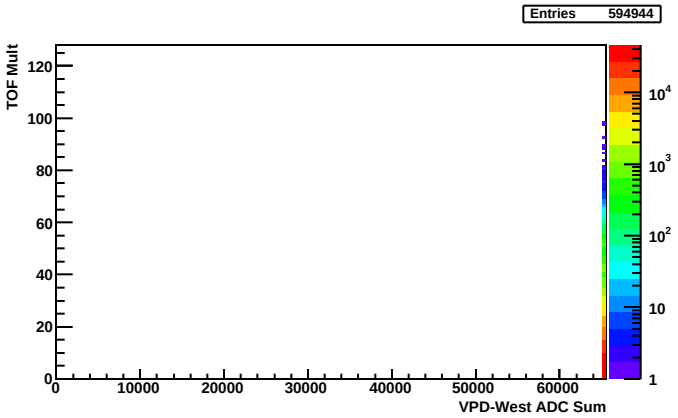

Entries 594944
TOF Mult
BBC-L-East ADC Sum

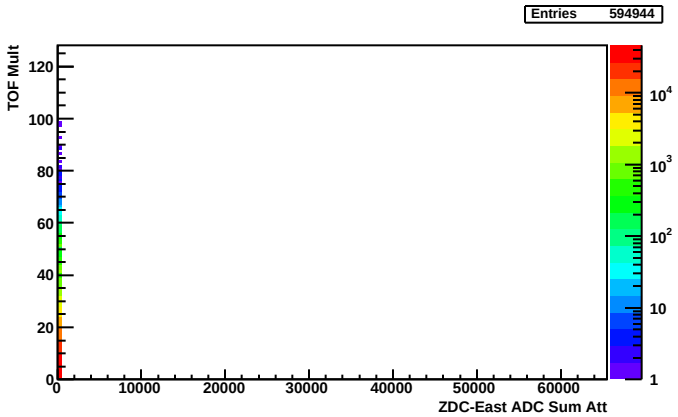

Entries 594944
TOF Mult
BBC-L-West ADC Sum

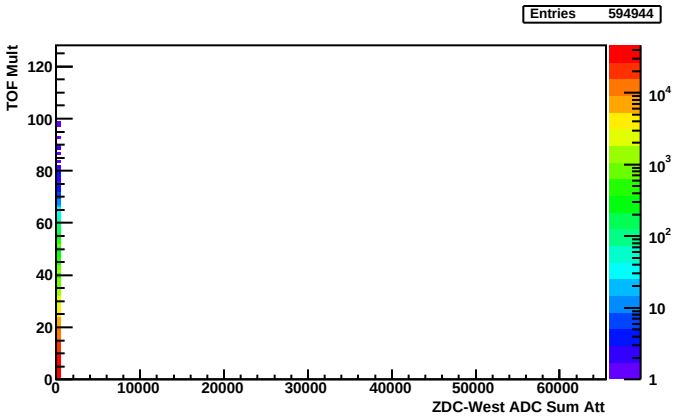

Entries 594944
TOF Mult
BBC-S-East ADC Sum

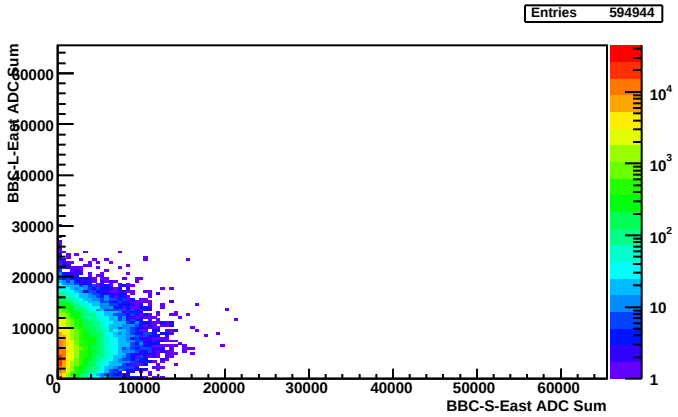

Entries 594944
TOF Mult
BBC-S-West ADC Sum

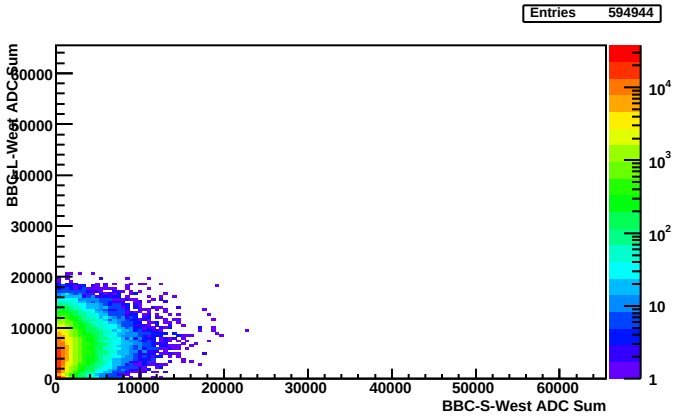

Entries 594944
TOF Mult
VPD-East ADC Sum

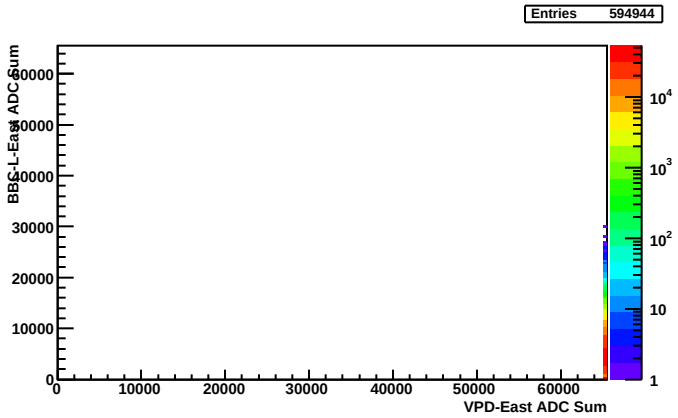

Entries 594944
TOF Mult
VPD-West ADC Sum

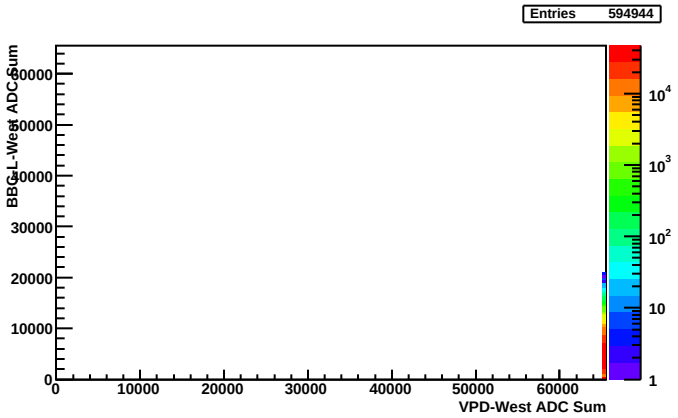

Entries 594944
TOF Mult
ZDC-East ADC Sum Att

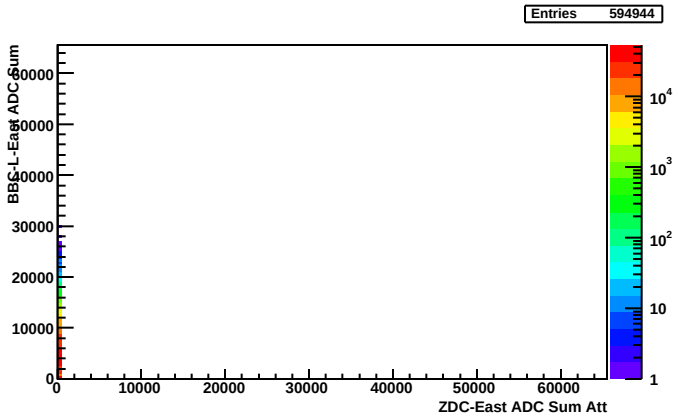

Entries 594944
TOF Mult
ZDC-West ADC Sum Att

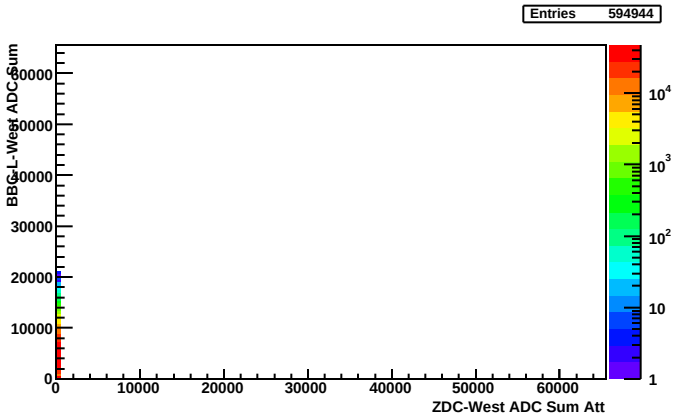

Entries 594944
BBC-L-East ADC Sum
BBC-S-East ADC Sum

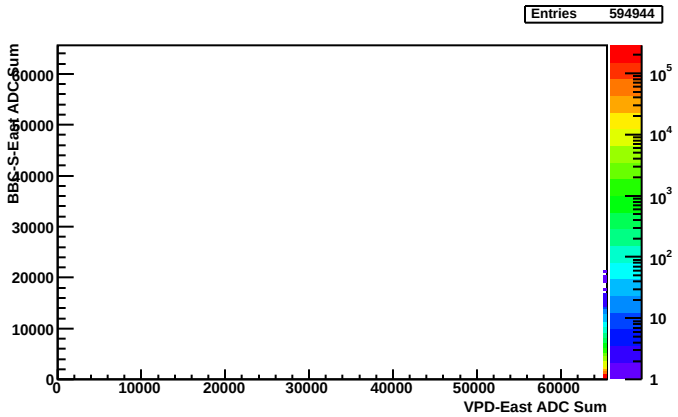

Entries 594944
BBC-L-West ADC Sum
BBC-S-West ADC Sum

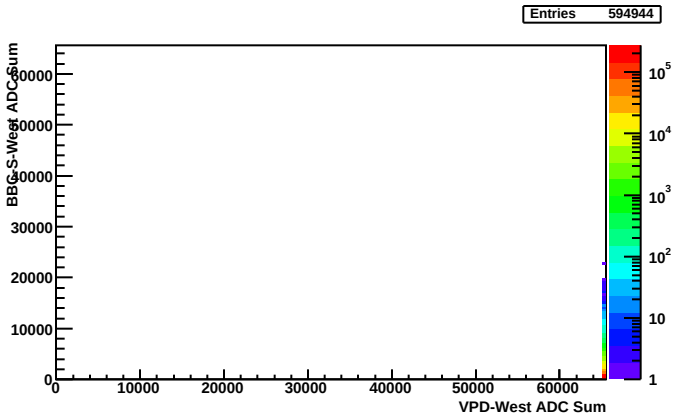

Entries 594944
BBC-L-East ADC Sum
VPD-East ADC Sum

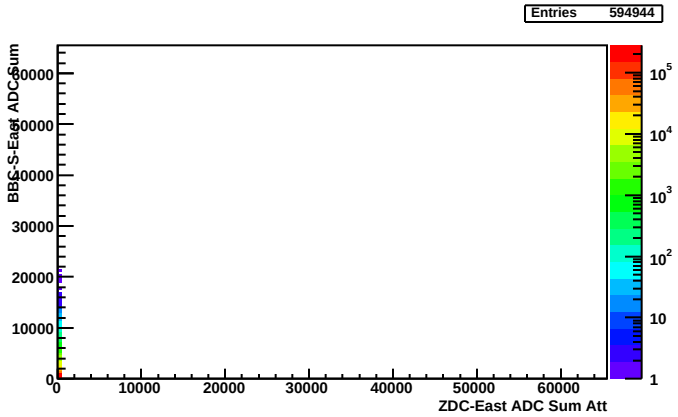

Entries 594944
BBC-L-West ADC Sum
VPD-West ADC Sum

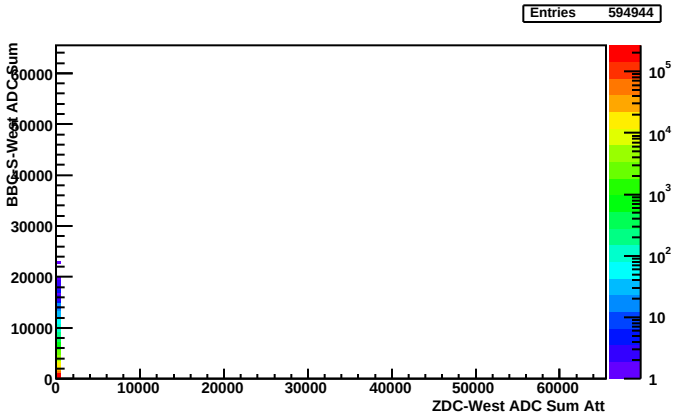

Entries 594944
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

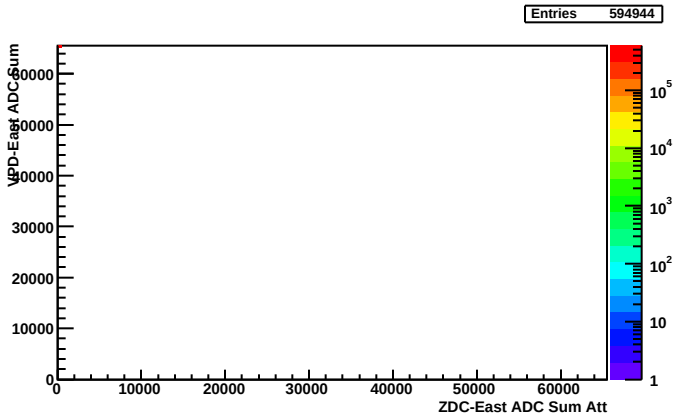

Entries 594944
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

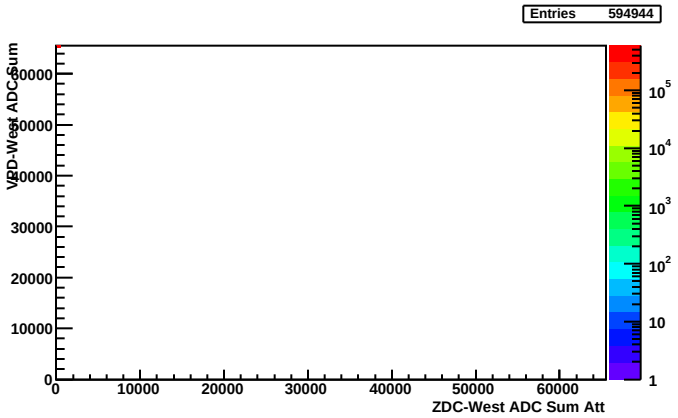

Entries 594944
BBC-S-East ADC Sum
VPD-East ADC Sum

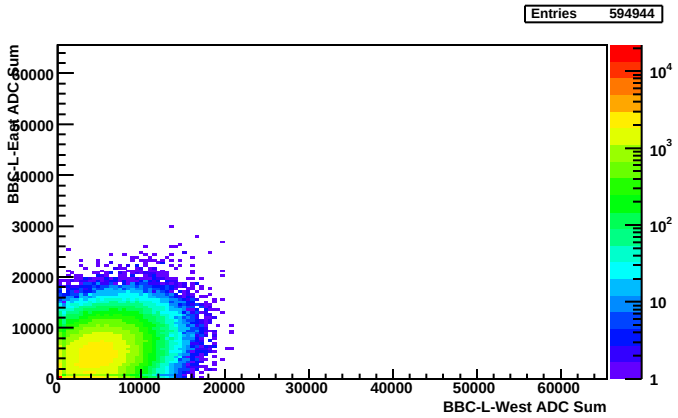

Entries 594944
BBC-S-West ADC Sum
VPD-West ADC Sum

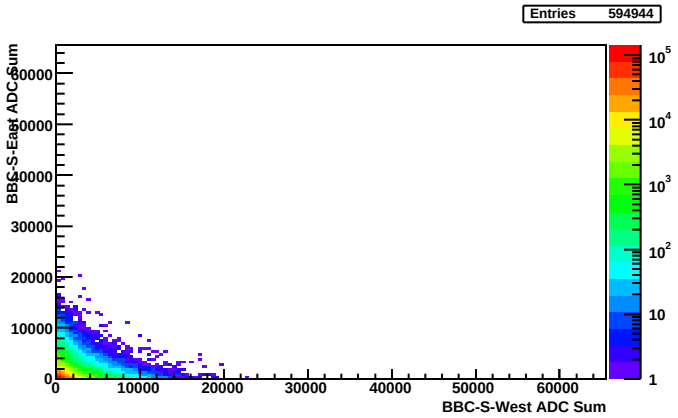

Entries 594944
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

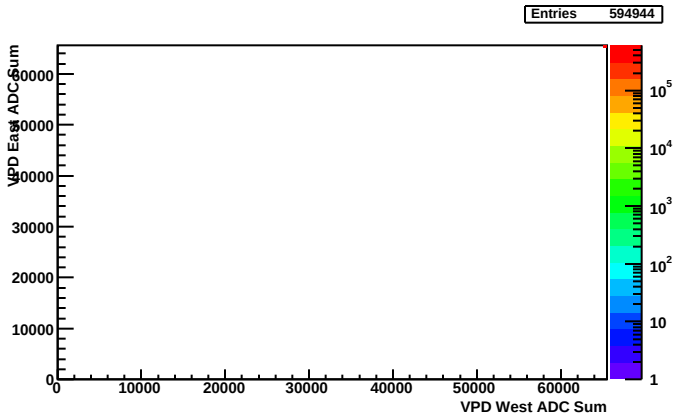

Entries 594944
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

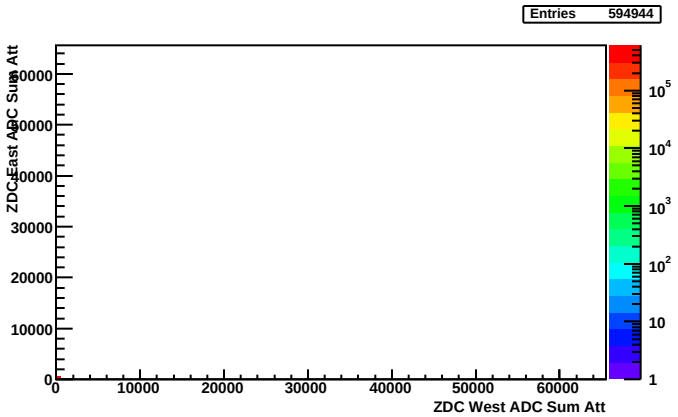

Entries 594944
VPD-East ADC Sum
ZDC-East ADC Sum Att

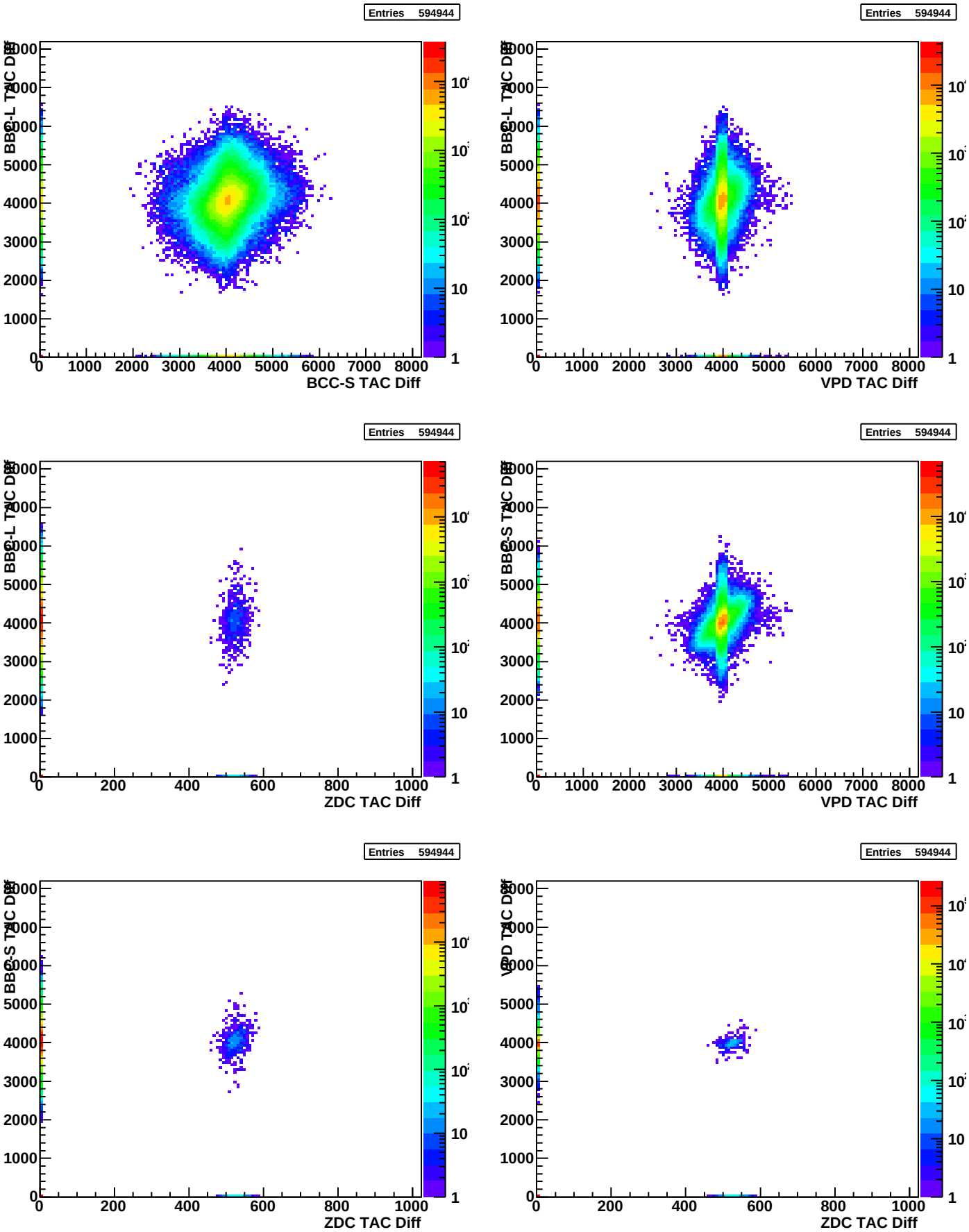

Entries 594944
VPD-West ADC Sum
ZDC-West ADC Sum Att

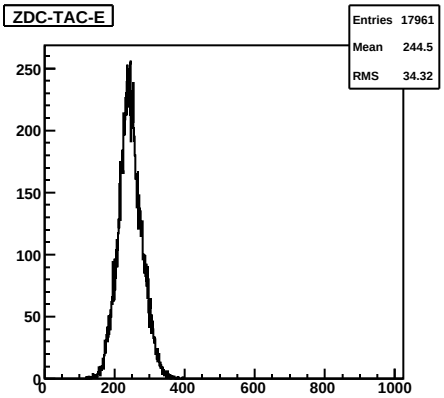

Entries 594944
BBC-L-East ADC Sum
BBC-L-West ADC Sum

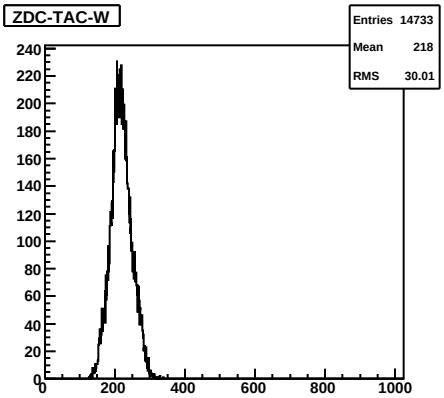

Entries 594944
BBC-S-East ADC Sum
BBC-S-West ADC Sum

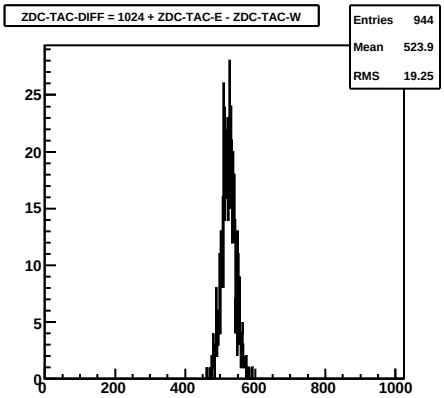

Entries 594944
VPD East ADC Sum
VPD West ADC Sum

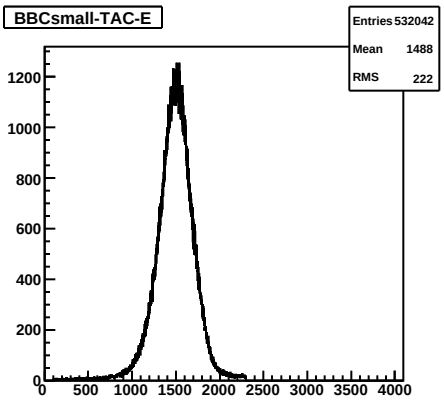

Entries 594944
ZDC East ADC Sum Att
ZDC West ADC Sum Att

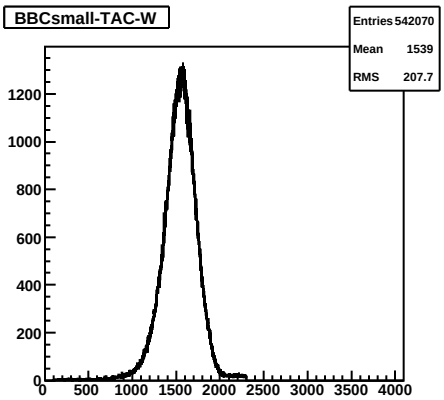

Entries 594944
BBC-L TAC Diff
BCC-S TAC Diff
Entries 594944
BBC-L TAC Diff
VPD TAC Diff
Entries 594944
BBC-L TAC Diff
ZDC TAC Diff
Entries 594944
BBC-S TAC Diff
VPD TAC Diff
Entries 594944
BBC-S TAC Diff
ZDC TAC Diff
Entries 594944
VPD TAC Diff
ZDC TAC Diff

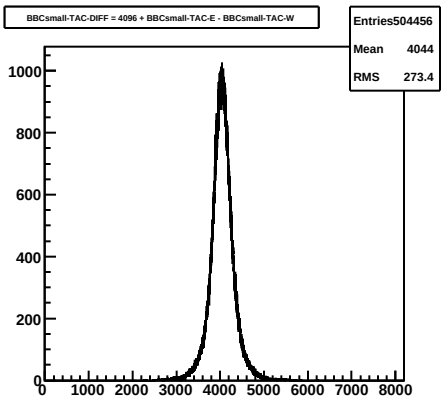

ZDC-TAC-E
Entries 17961
Mean 244.5
RMS 34.32

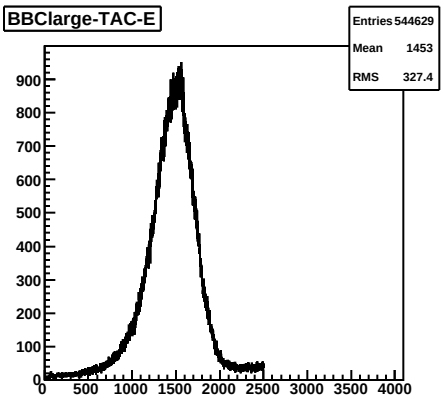

ZDC-TAC-W
Entries 14733
Mean 218
RMS 30.01

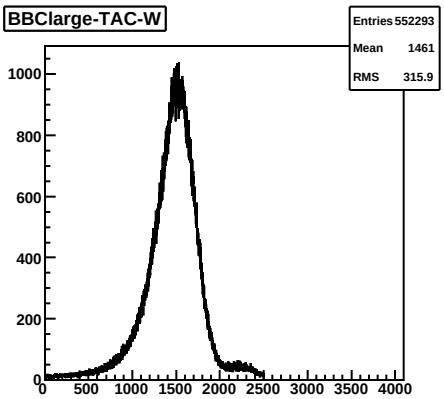

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 944
Mean 523.9
RMS 19.25

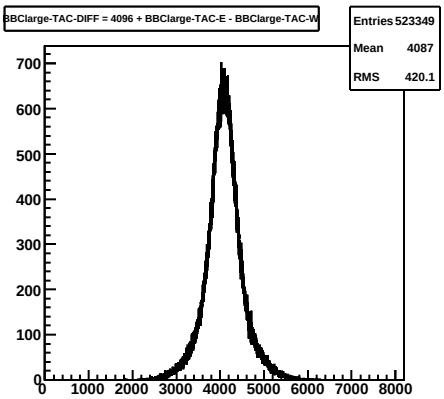

BBCsmall-TAC-E
Entries 532042
Mean 1488
RMS 222

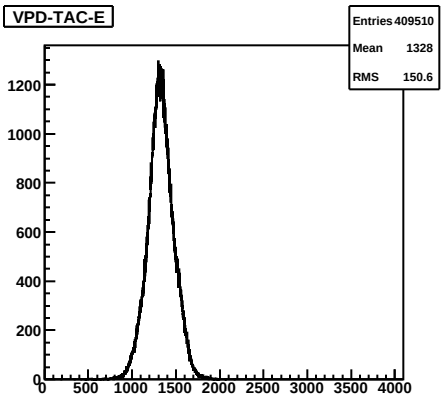

BBCsmall-TAC-W
Entries 542070
Mean 1539
RMS 207.7

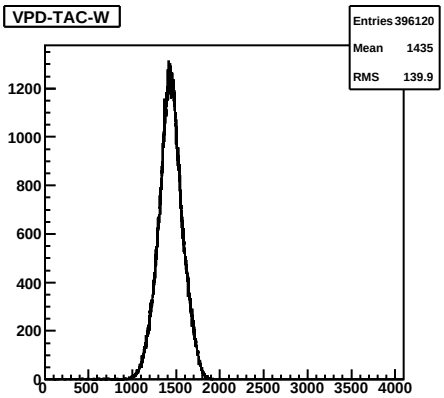

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries504456
Mean 4044
RMS 273.4

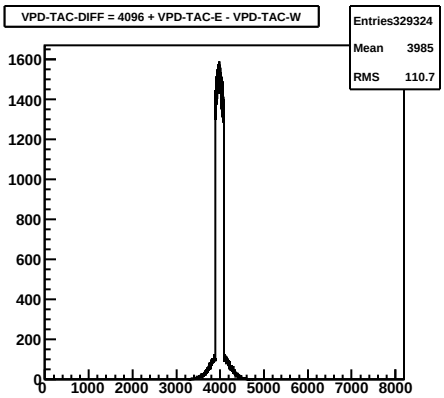

BBClarge-TAC-E
Entries 544629
Mean 1453
RMS 327.4

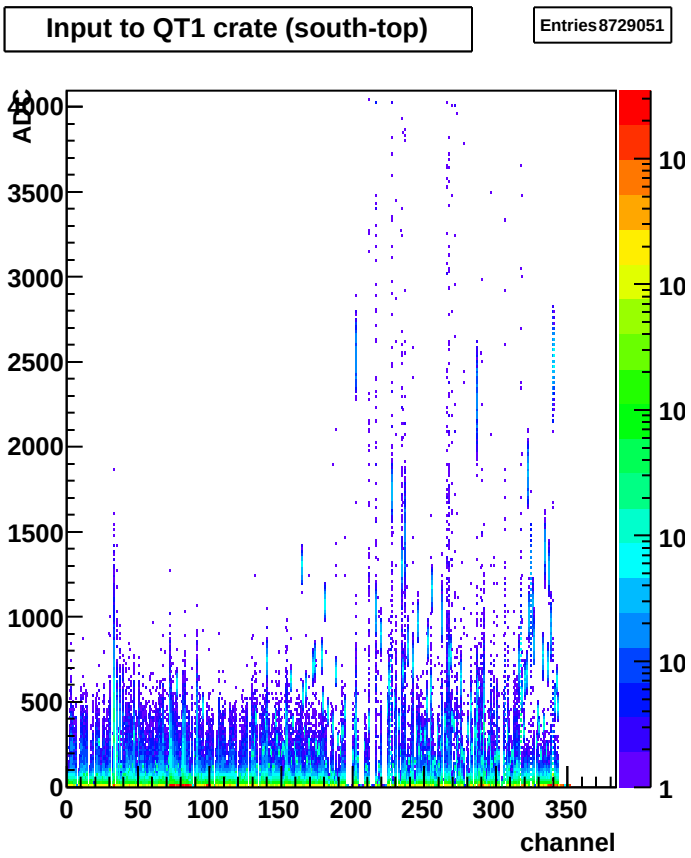

BBClarge-TAC-W
Entries 552293
Mean 1461
RMS 315.9

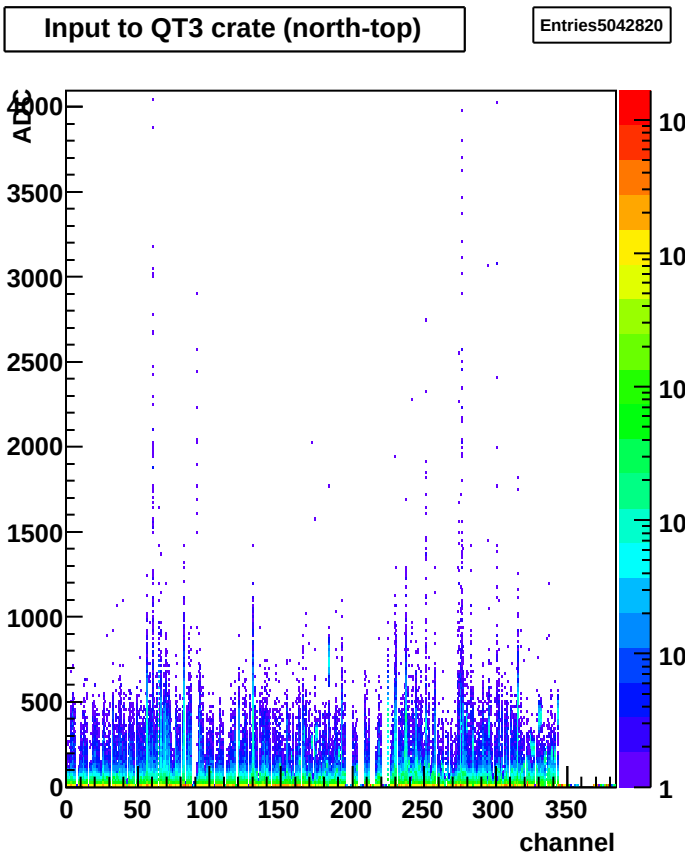

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 523349
Mean 4087
RMS 420.1

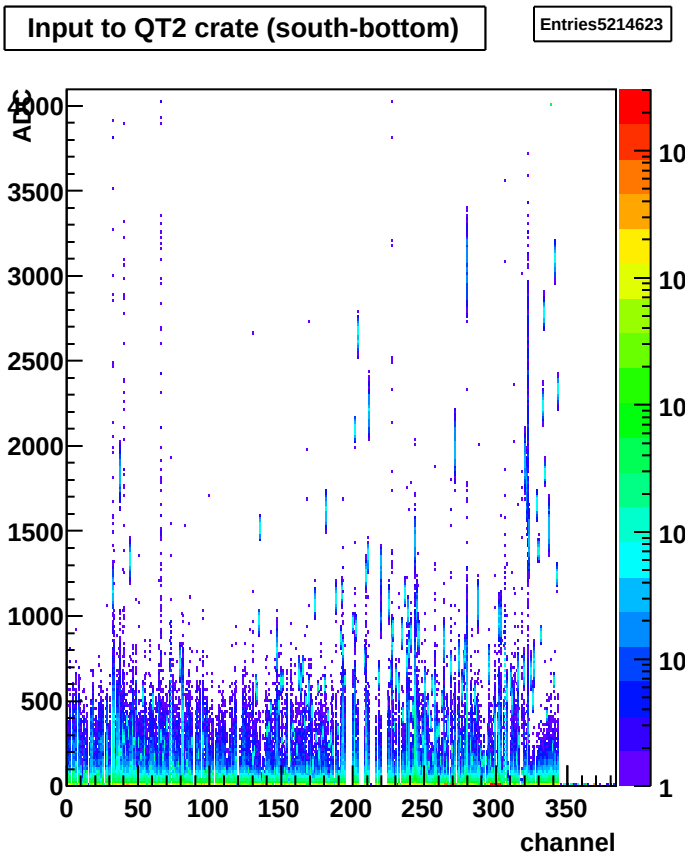

VPD-TAC-E
Entries 409510
Mean 1328
RMS 150.6

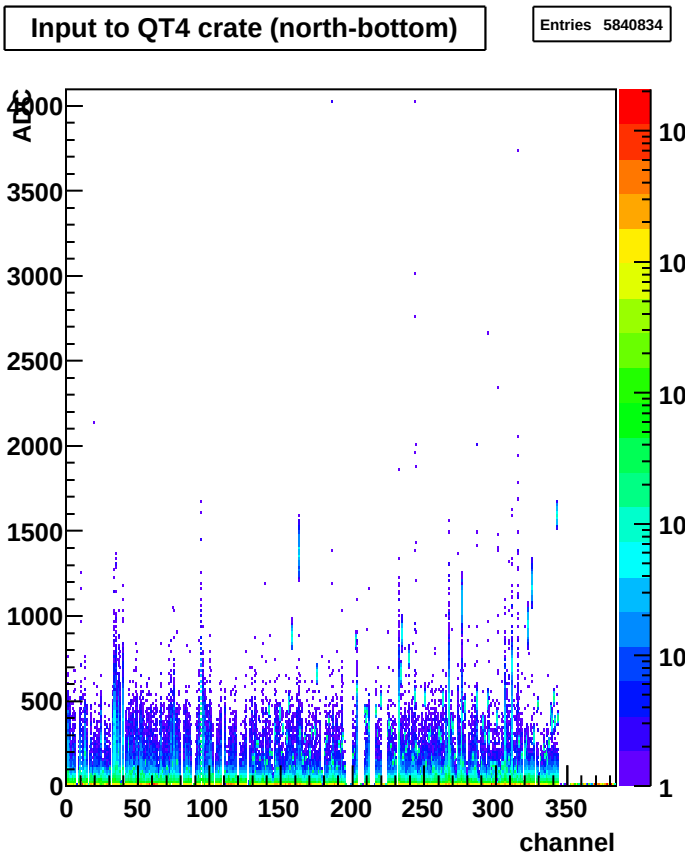

VPD-TAC-W
Entries 396120
Mean 1435
RMS 139.9

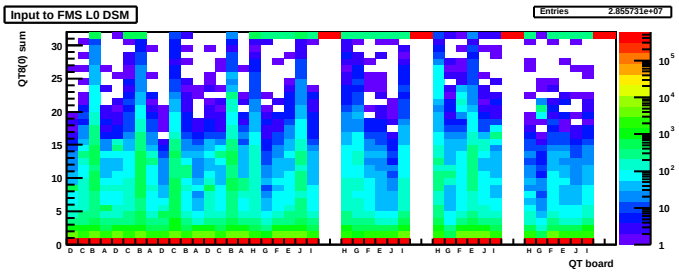

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries329324
Mean 3985
RMS 110.7

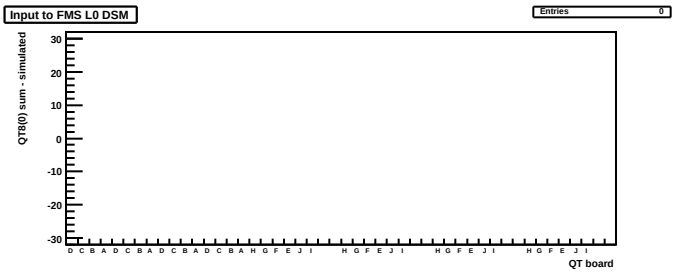

Input to QT1 crate (south-top)
Entries 8729051
ADC
channel

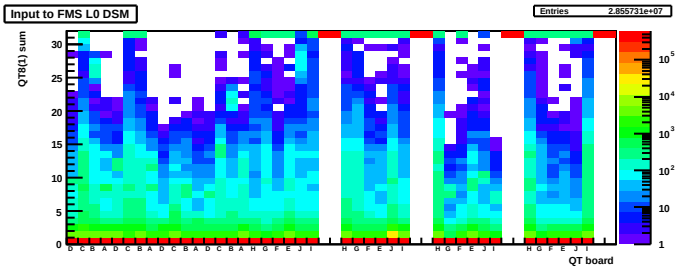

Input to QT3 crate (north-top)
Entries 5042820
ADC
channel

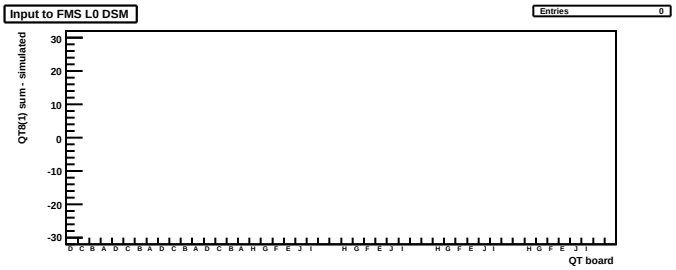

Input to QT2 crate (south-bottom)
Entries 5214623
ADC
channel

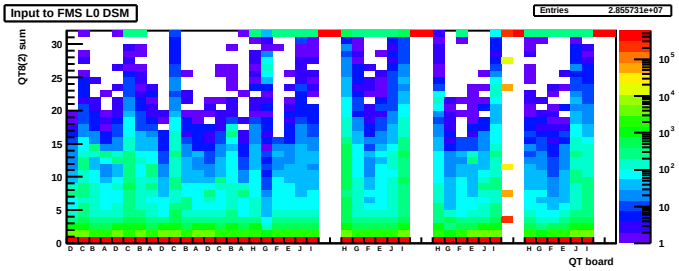

Input to QT4 crate (north-bottom)
Entries 5840834
ADC
channel

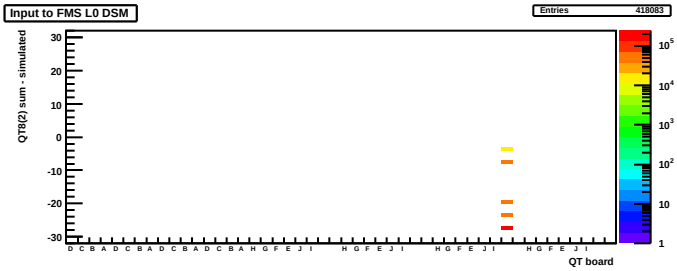

Input to FMS L0 DSM
Entries 2.855731e+07
QT8(0) sum
QT board

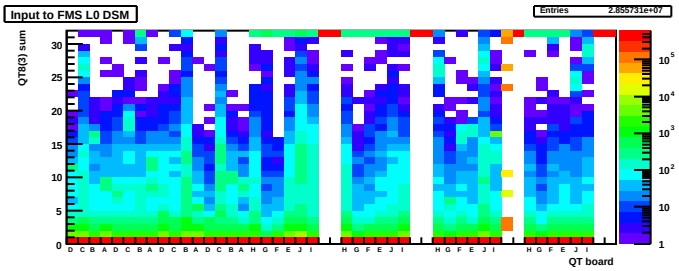

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

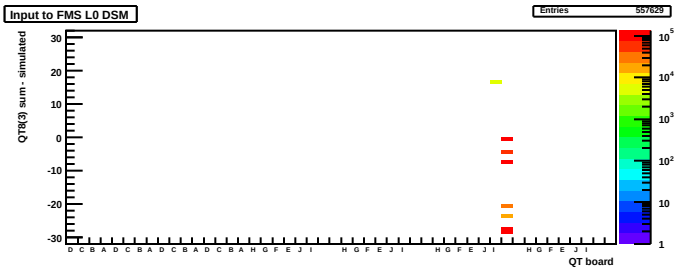

Input to FMS L0 DSM
Entries 2.855731e+07
QT8(1) sum
QT board

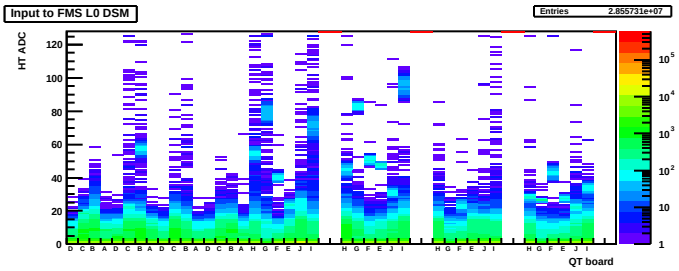

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

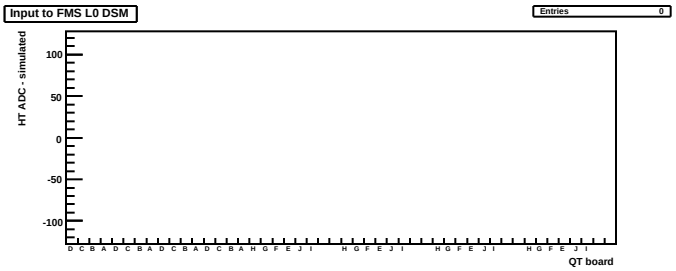

Input to FMS L0 DSM
Entries 2.855731e+07
QT8(2) sum
QT board

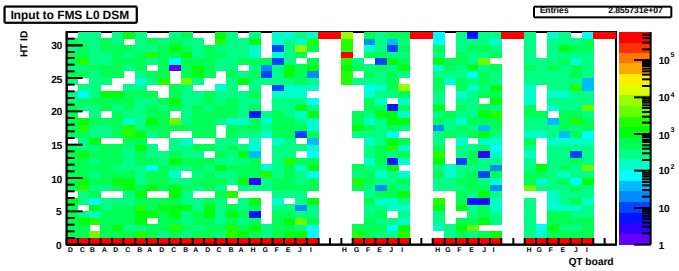

Input to FMS L0 DSM
Entries 418083
QT8(2) sum - simulated
QT board

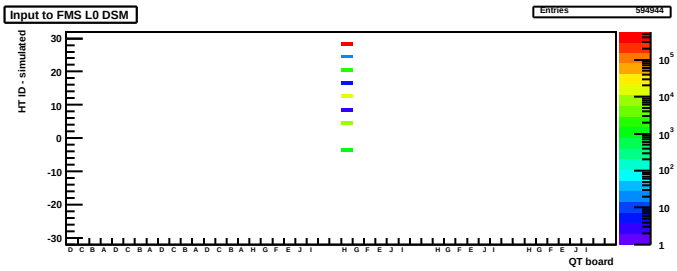

Input to FMS L0 DSM
Entries 2.855731e+07
QT8(3) sum
QT board

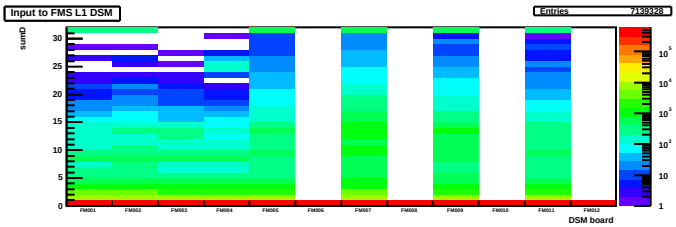

Input to FMS L0 DSM
Entries 557629
QT8(3) sum - simulated
QT board

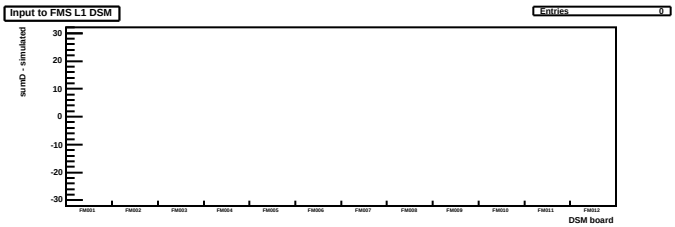

Input to FMS L0 DSM
Entries 2.855731e+07
HT ADC
QT board

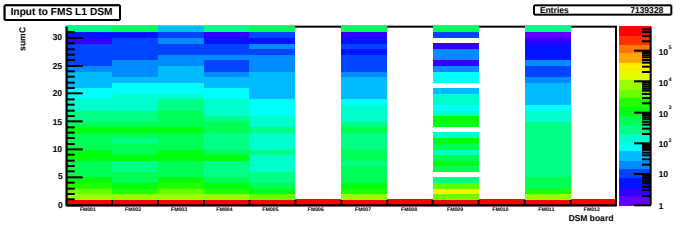

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

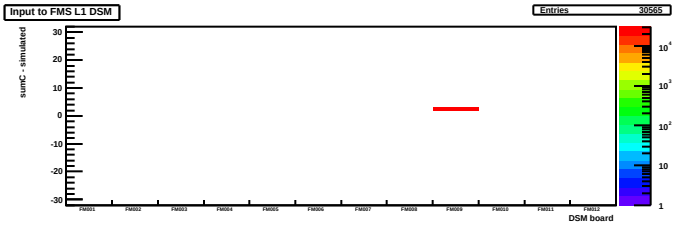

Input to FMS L0 DSM
Entries 2.855731e+07
HT ID
QT board

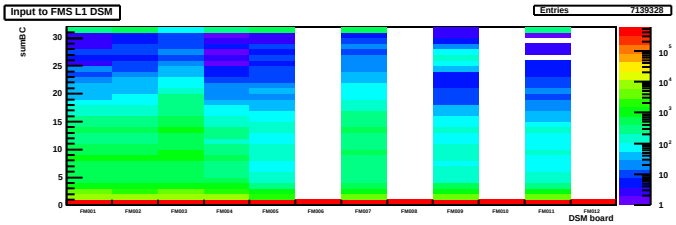

Input to FMS L0 DSM
Entries 594944
HT ID - simulated
QT board

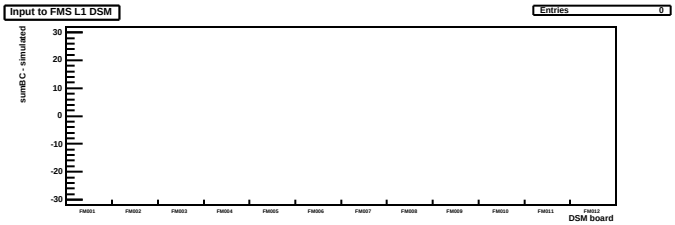

Input to FMS L1 DSM
Entries 7139328
sumD
DSM board

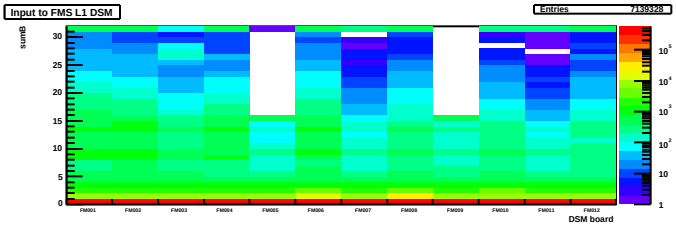

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

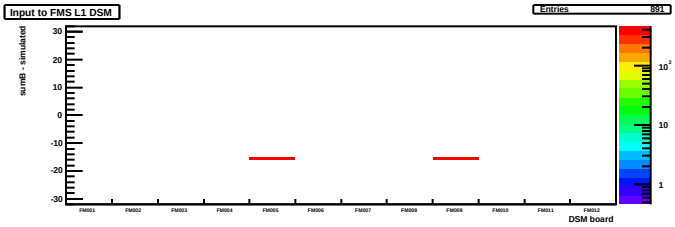

Input to FMS L1 DSM
Entries 7139328
sumC
DSM board

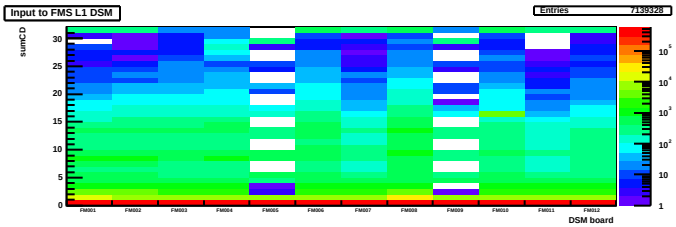

Input to FMS L1 DSM
Entries 30565
sumC - simulated
DSM board

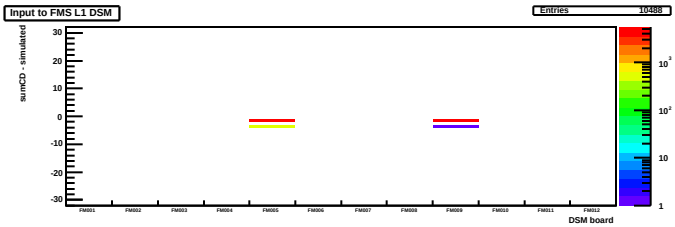

Input to FMS L1 DSM
Entries 7139328
sumBC
DSM board

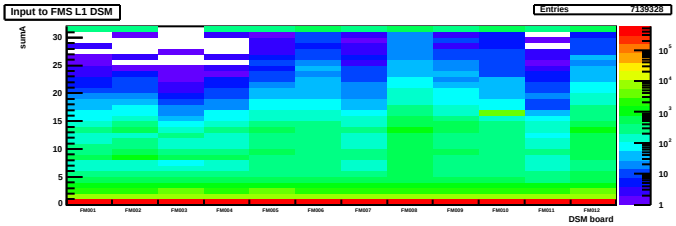

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

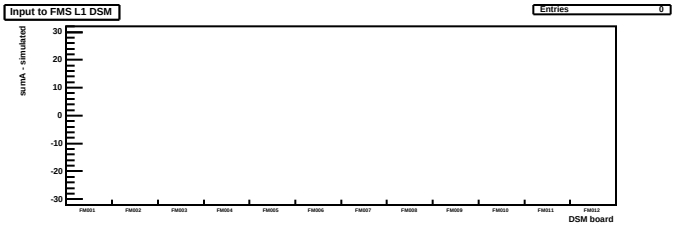

Input to FMS L1 DSM
Entries 7139328
sumB
DSM board

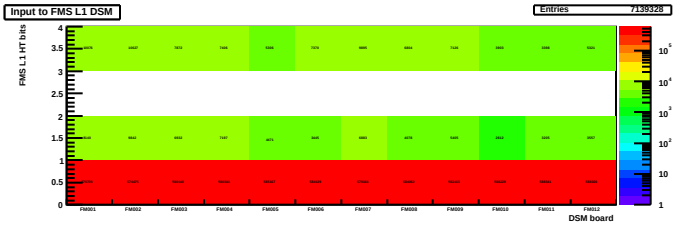

Input to FMS L1 DSM
Entries 891
sumB - simulated
DSM board

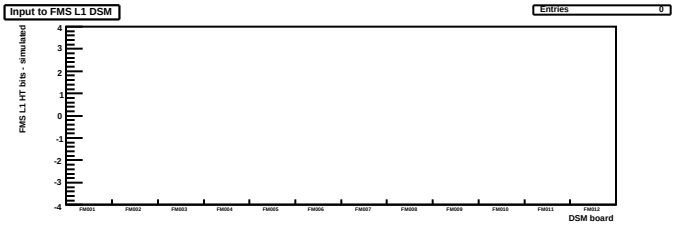

Input to FMS L1 DSM
Entries 7139328
sumCD
DSM board

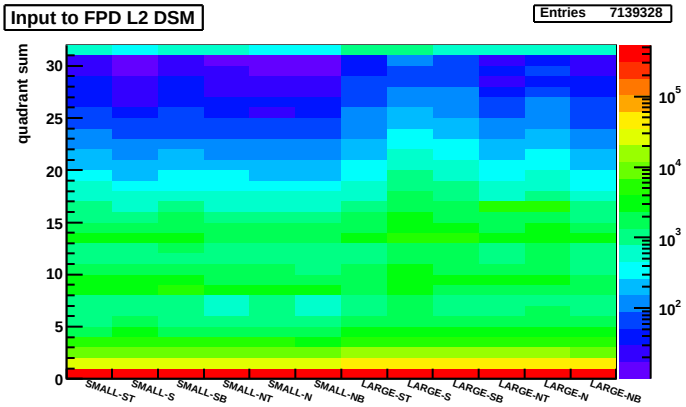

Input to FMS L1 DSM
Entries 10488
sumCD - simulated
DSM board

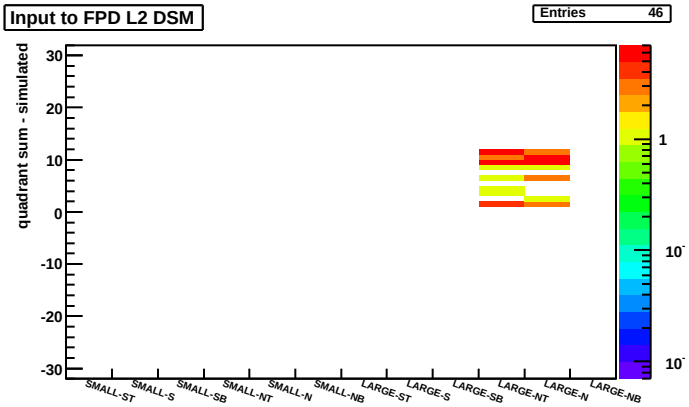

Input to FMS L1 DSM
Entries 7139328
sumA
DSM board

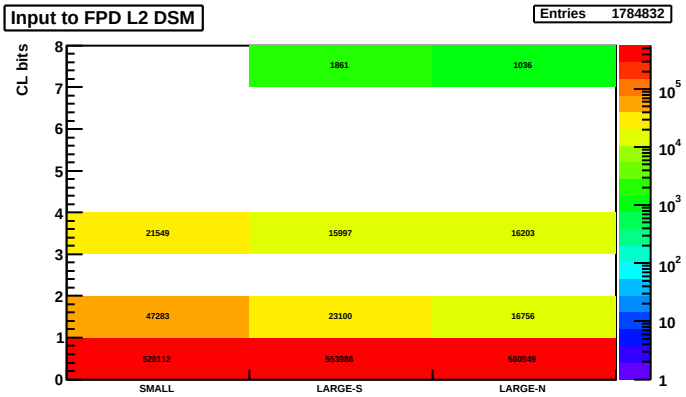

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

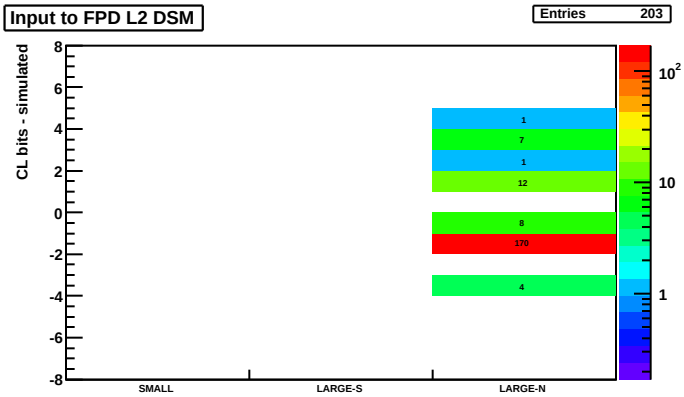

Input to FMS L1 DSM
Entries 7139328
FMS L1 HT bits
DSM board

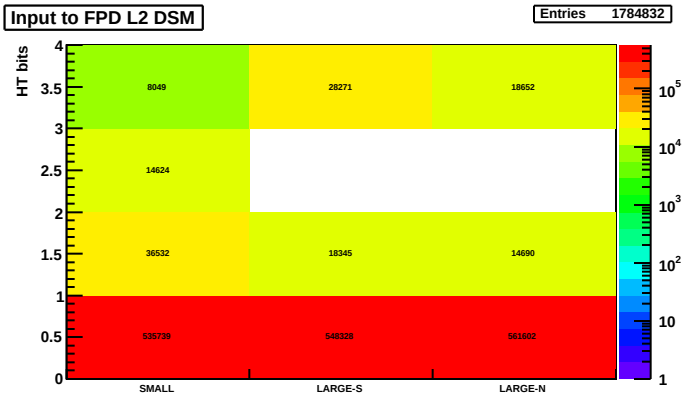

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

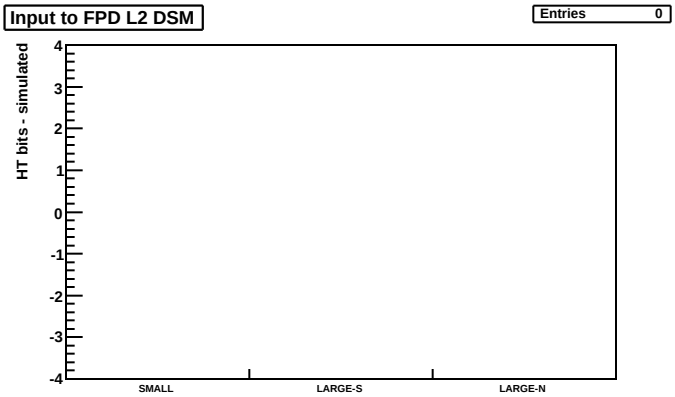

Input to FPD L2 DSM
Entries 7139328
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

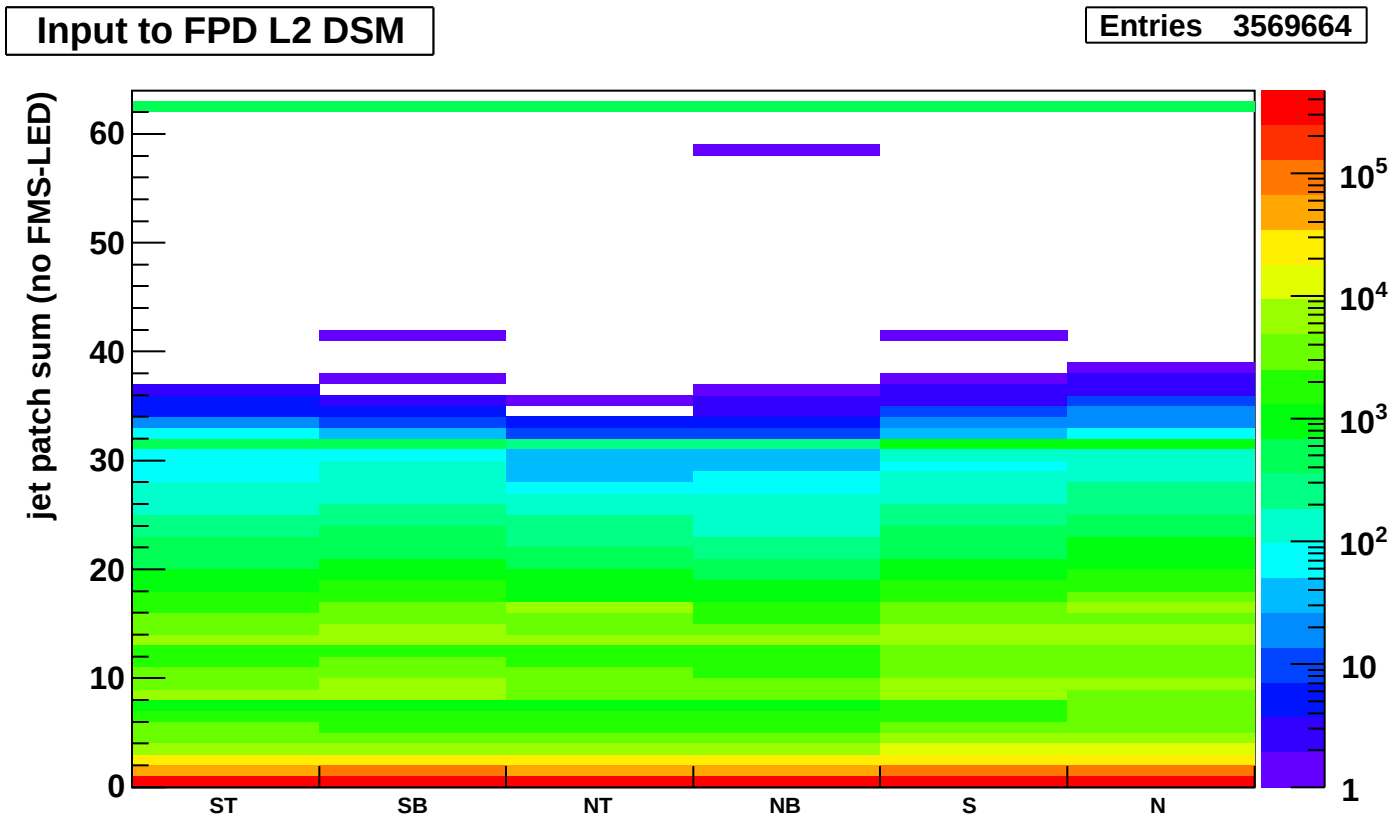

Input to FPD L2 DSM
Entries 46
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

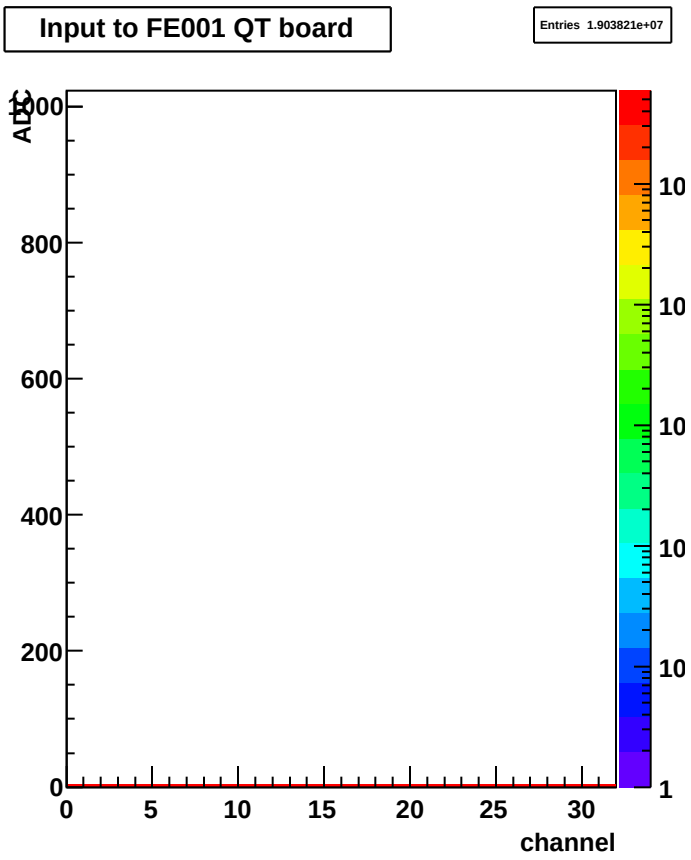

Input to FPD L2 DSM
Entries 1784832
CL bits
1861
1036
21549
15997
16203
47283
23100
16756
526112
553986
560949
SMALL
LARGE-S
LARGE-N

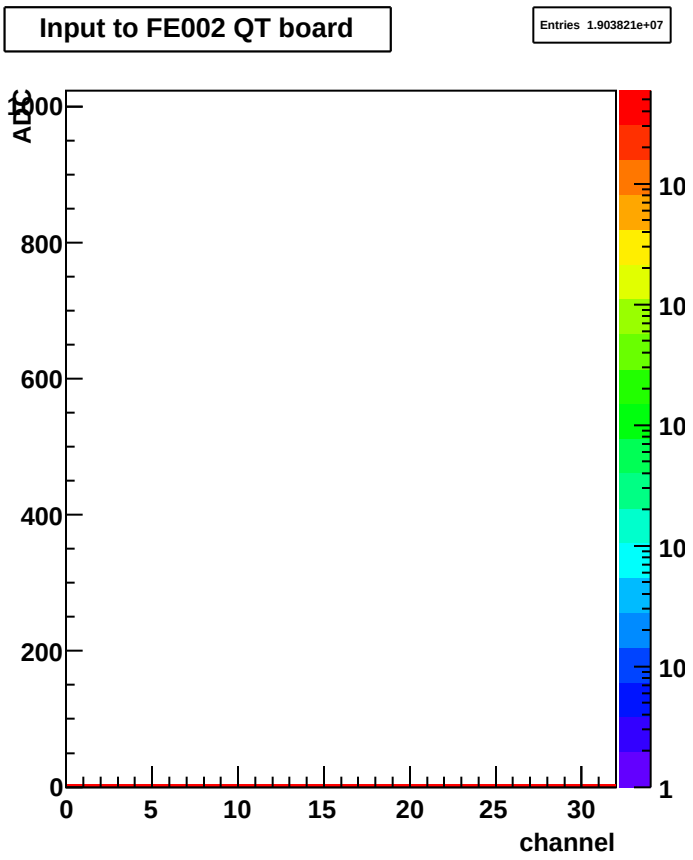

Input to FPD L2 DSM
Entries 203
CL bits - simulated
1
7
1
12
8
170
4
SMALL
LARGE-S
LARGE-N

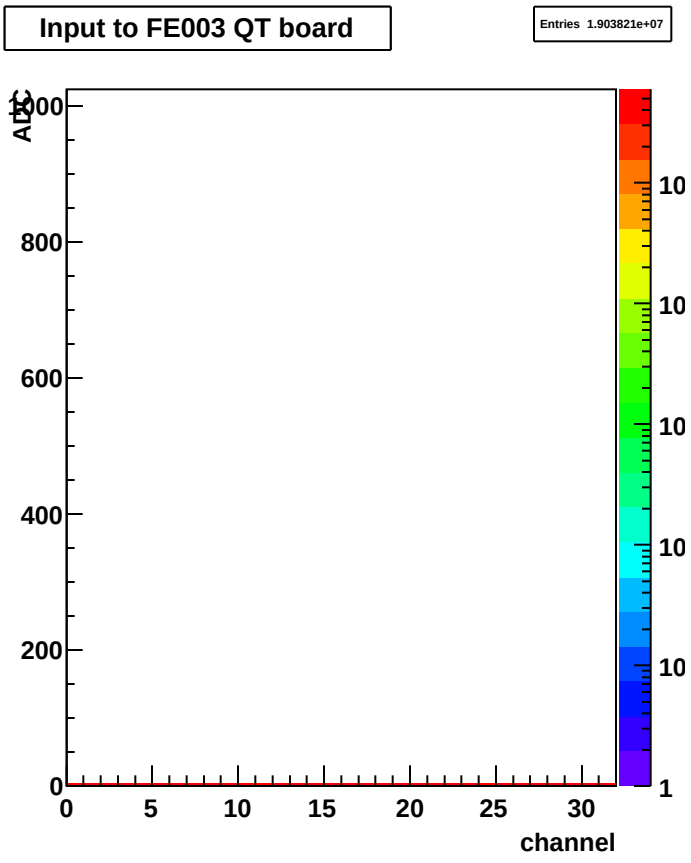

Input to FPD L2 DSM
Entries 1784832
HT bits
8049
28271
18652
14624
36532
18345
14690
535739
548328
561602
SMALL
LARGE-S
LARGE-N

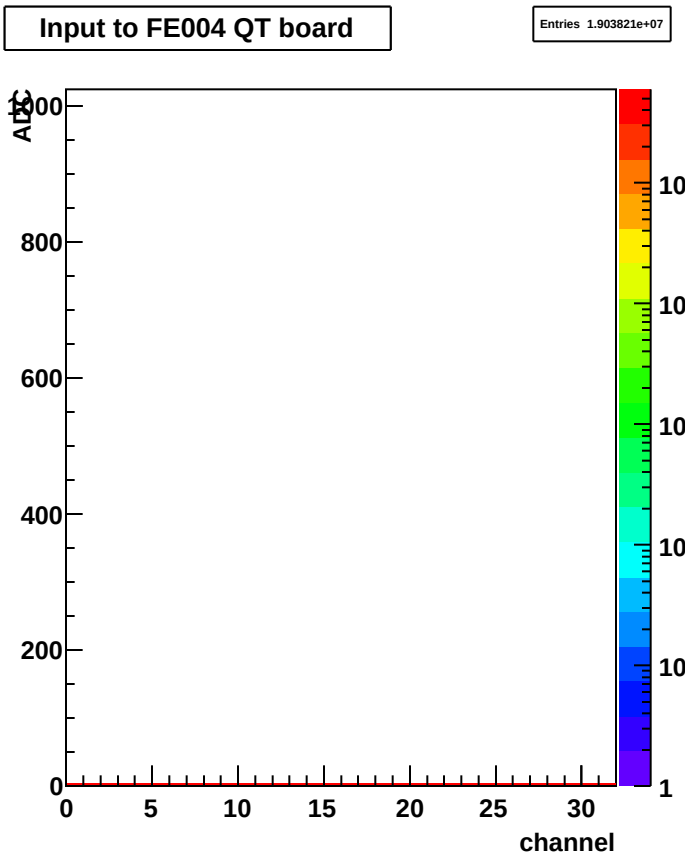

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

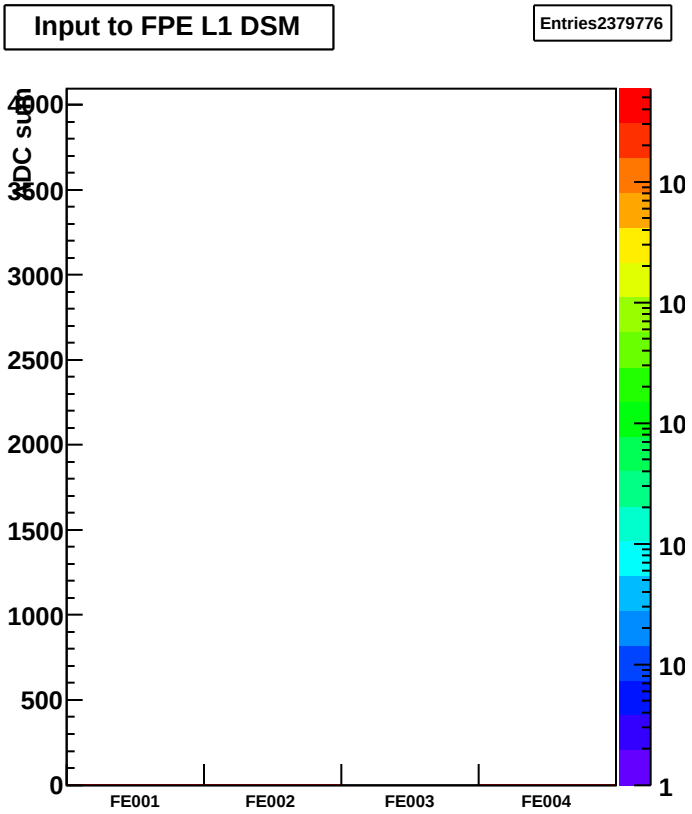

Input to FPD L2 DSM
Entries 3569664
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

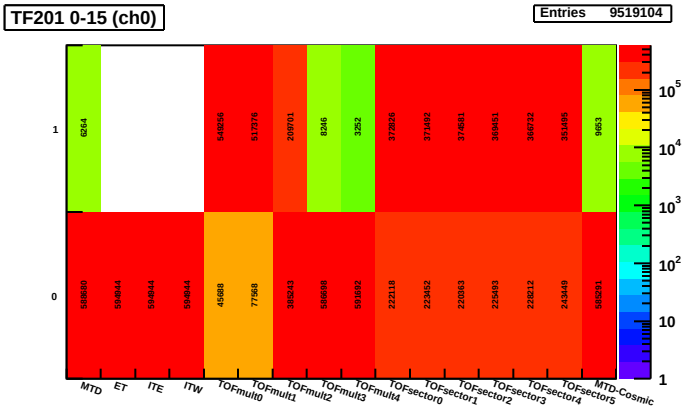

Input to FE001 QT board
Entries 1.903821e+07
ADC
channel

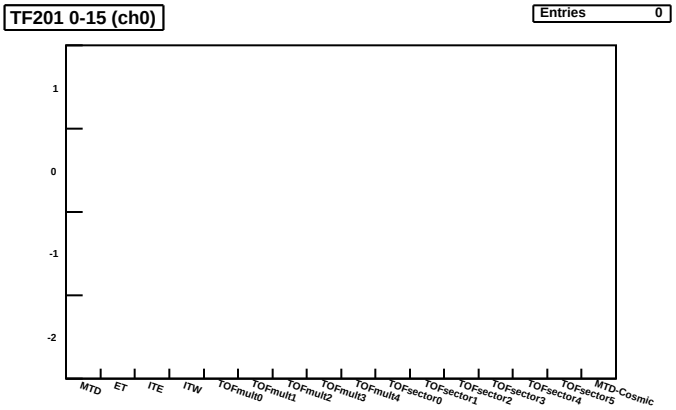

Input to FE002 QT board
Entries 1.903821e+07
ADC
channel

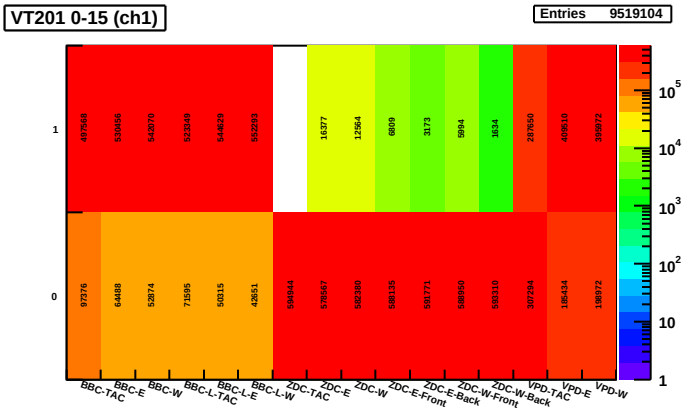

Input to FE003 QT board
Entries 1.903821e+07
ADC
channel

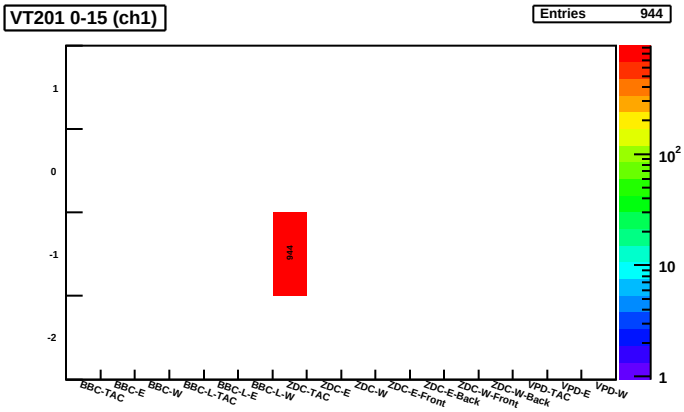

Input to FE004 QT board
Entries 1.903821e+07
ADC
channel

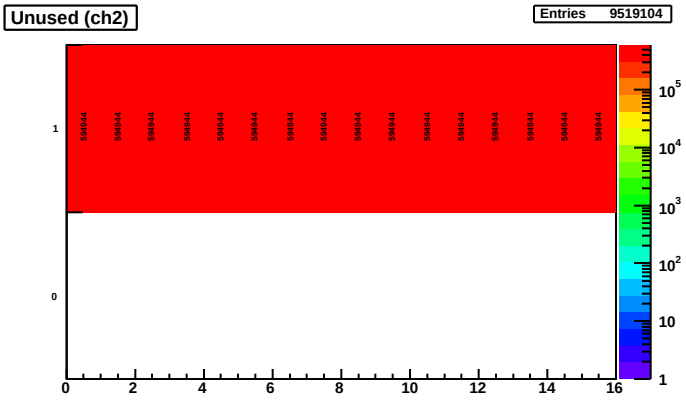

Input to FPE L1 DSM
Entries2379776
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

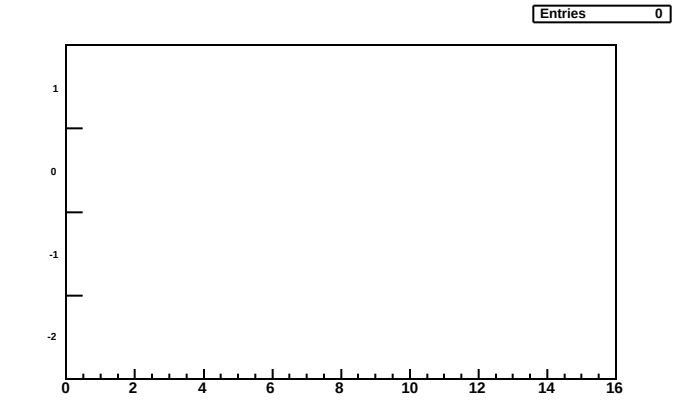

TF201 0-15 (ch0)
Entries 9519104
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

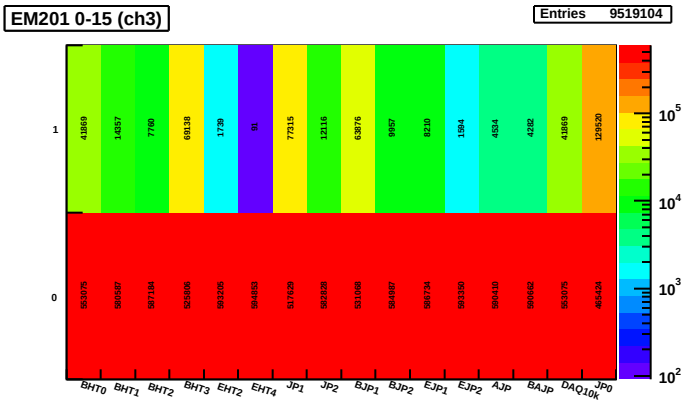

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

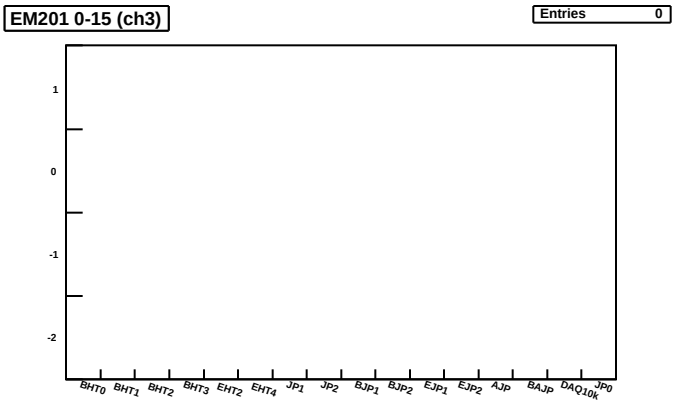

VT201 0-15 (ch1)
Entries 9519104
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 944
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

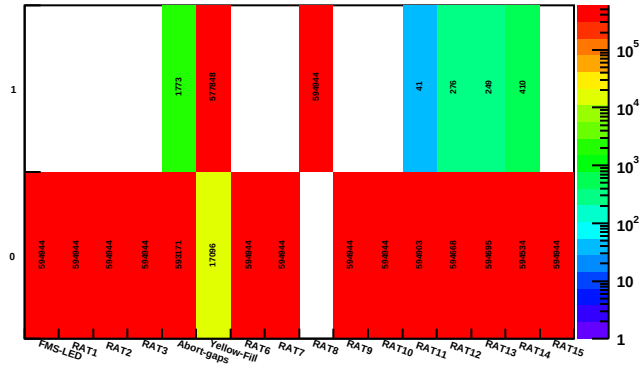

Unused (ch2)
Entries 9519104

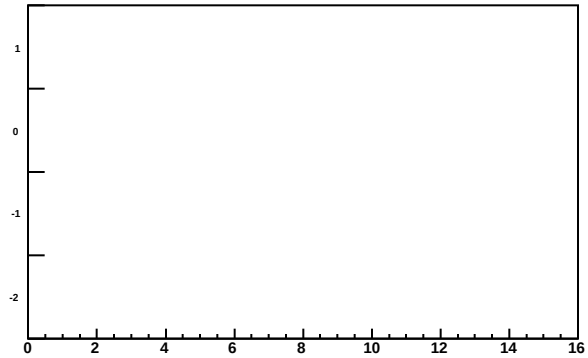

Entries 0


EM201 0-15 (ch3)
Entries 9519104
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

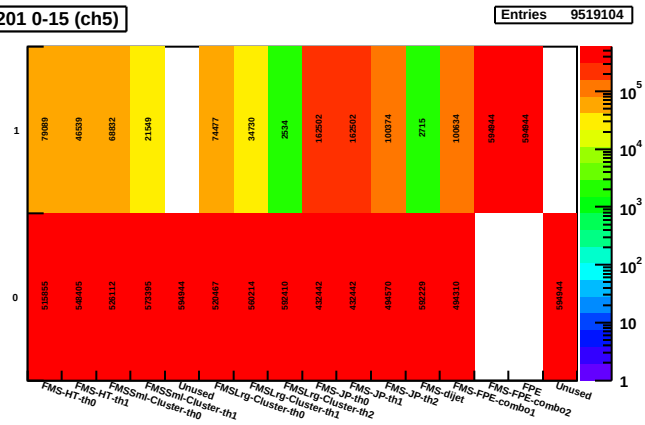

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

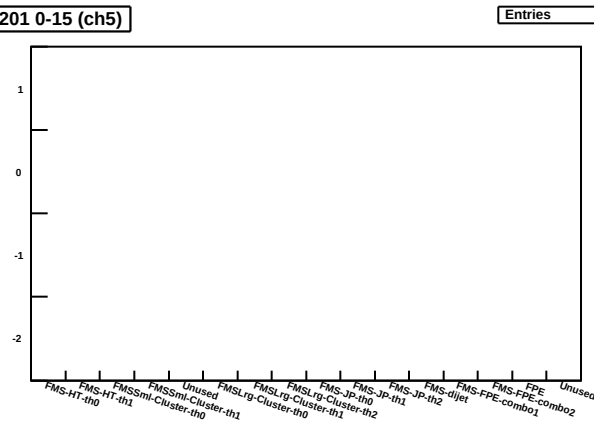




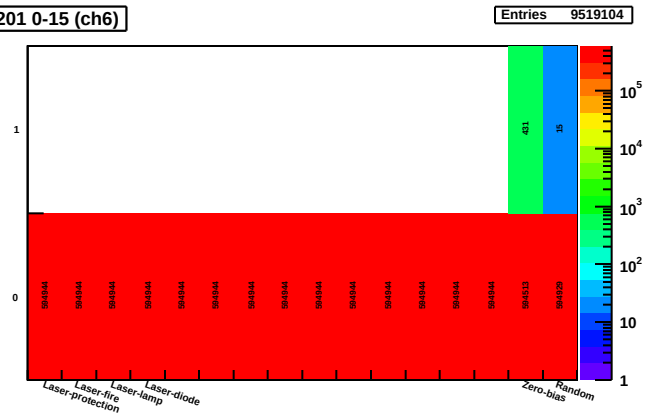
FP201 0-15 (ch5)

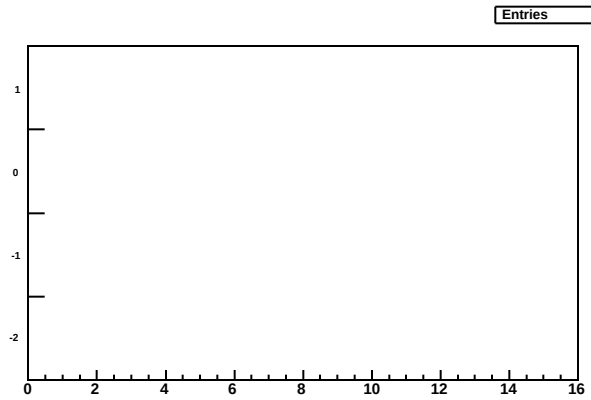
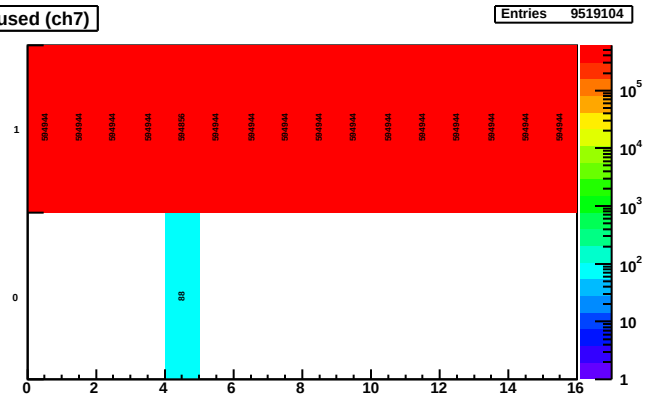
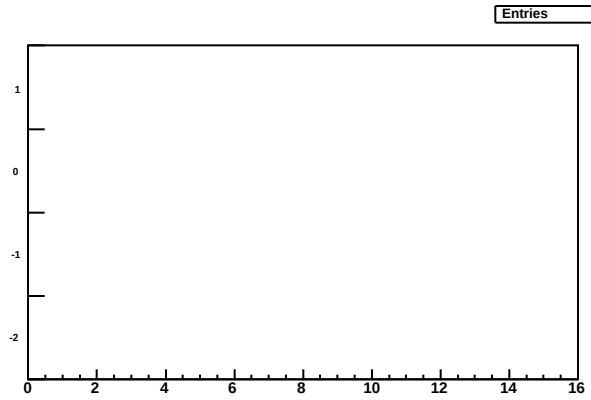


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)