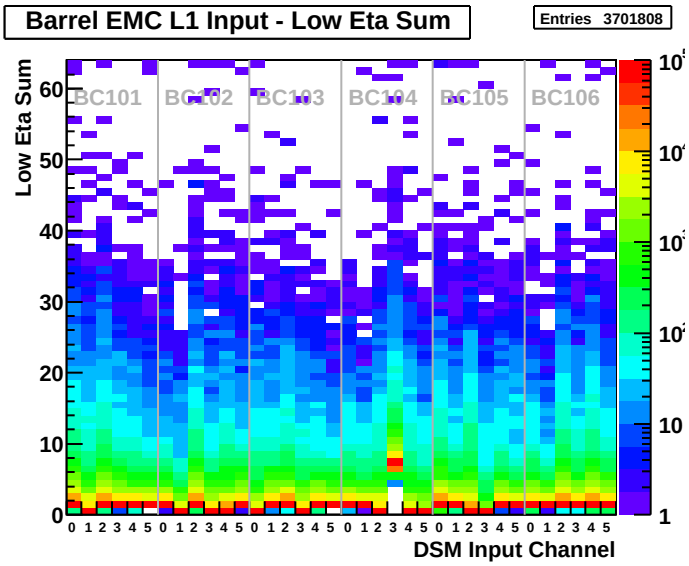
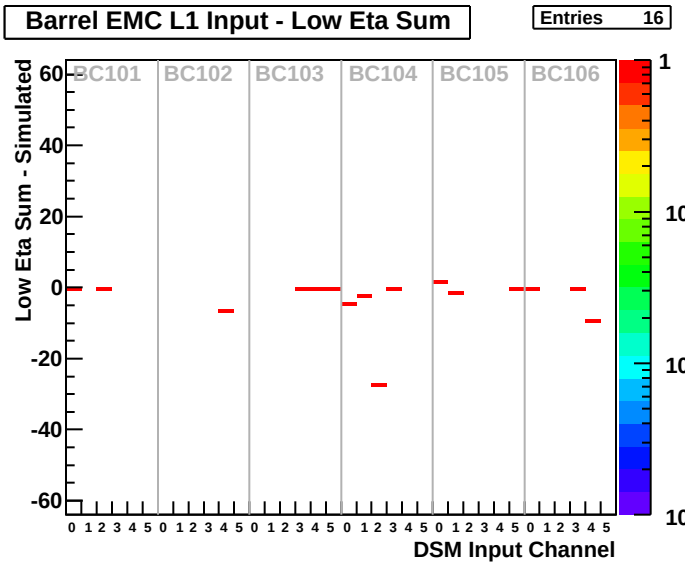
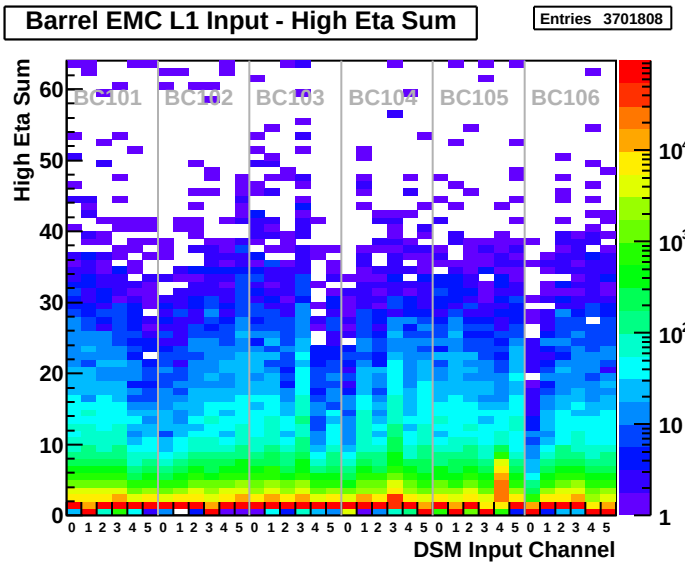
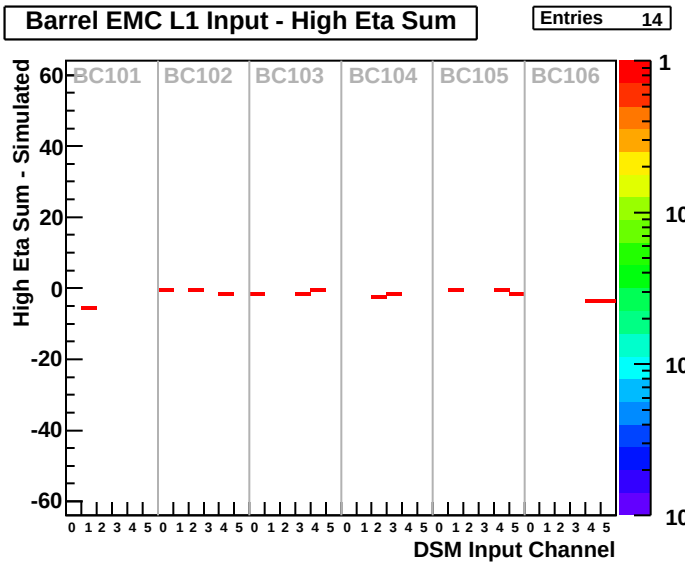
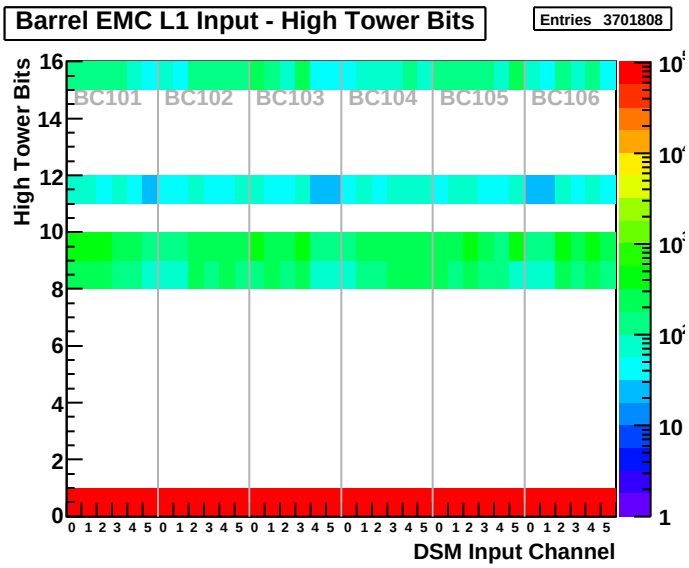
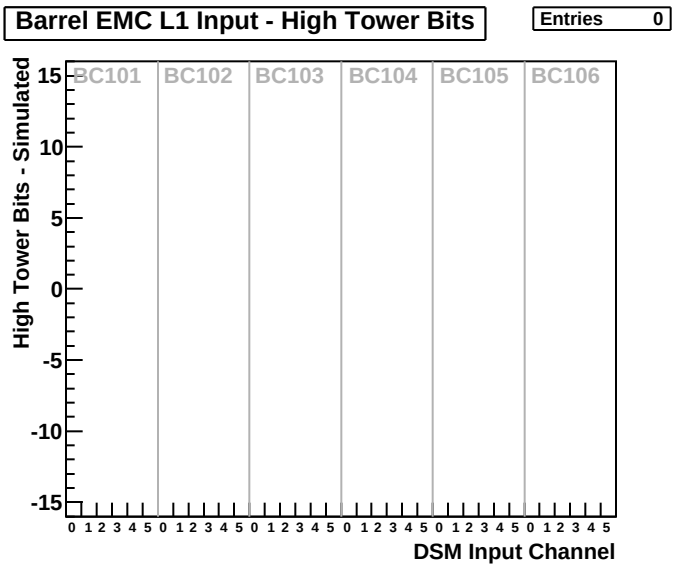

Barrel EMC L1 Input - Low Eta Sum
Entries 3701808
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

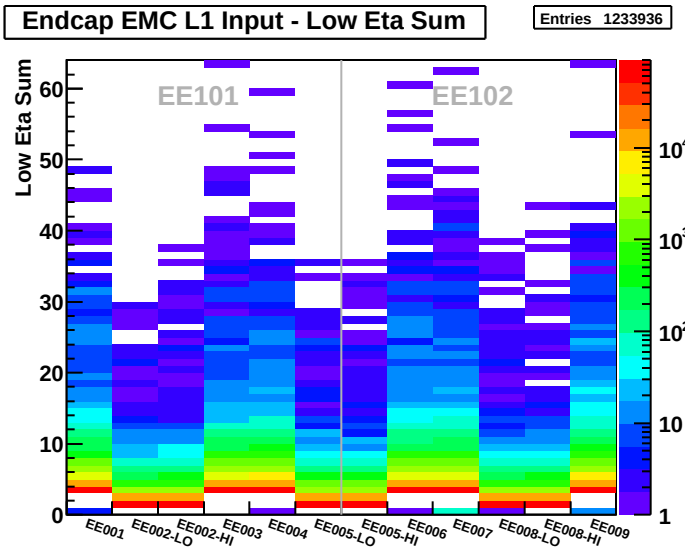

Barrel EMC L1 Input - Low Eta Sum
Entries 16
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

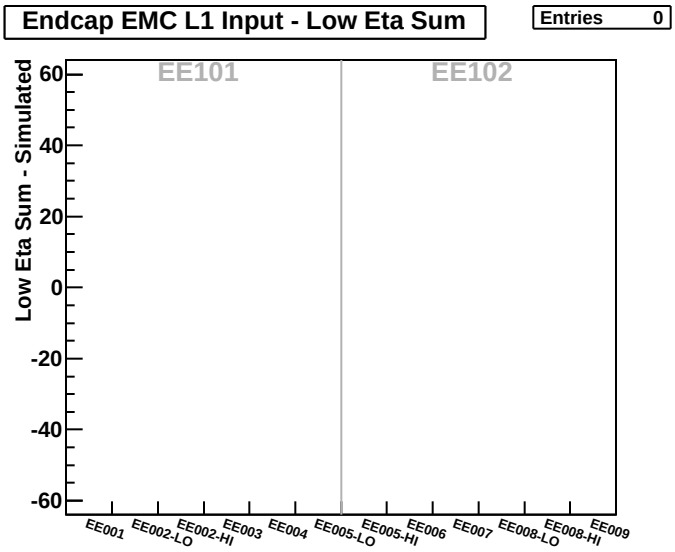

Barrel EMC L1 Input - High Eta Sum
Entries 3701808
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

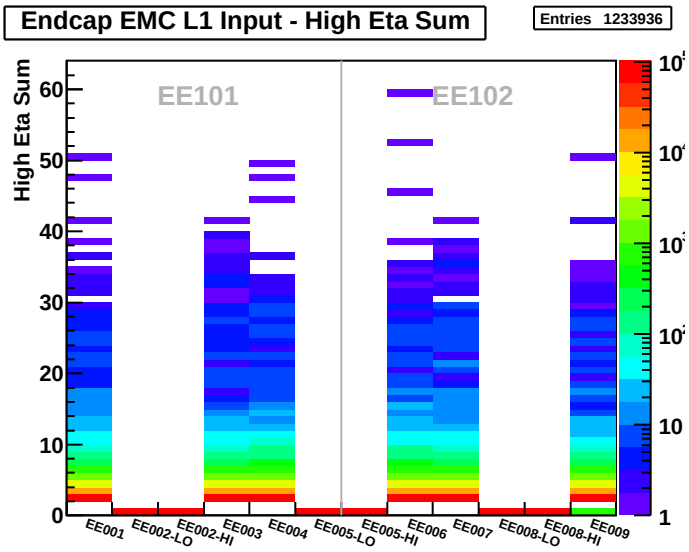

Barrel EMC L1 Input - High Eta Sum
Entries 14
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

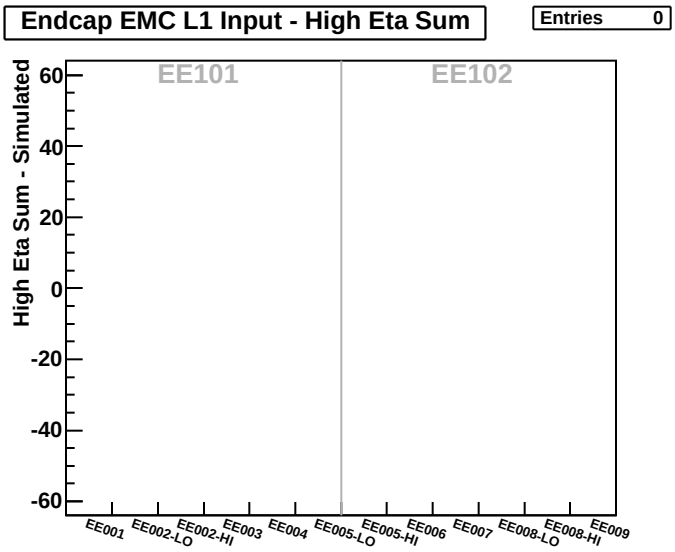

Barrel EMC L1 Input - High Tower Bits
Entries 3701808
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

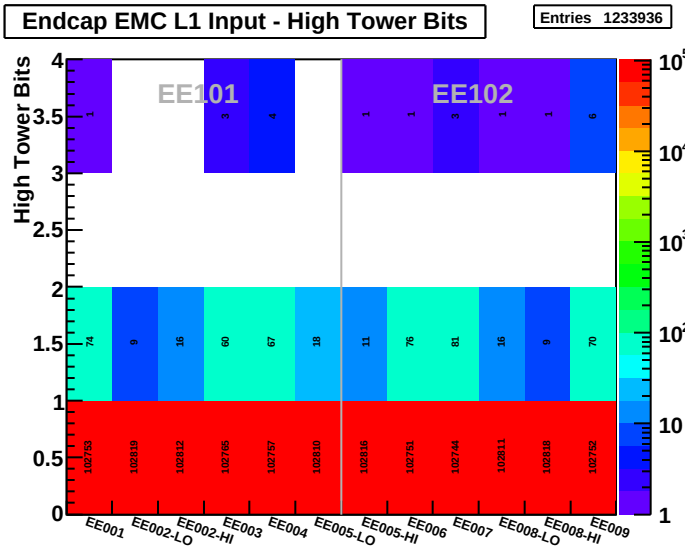

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

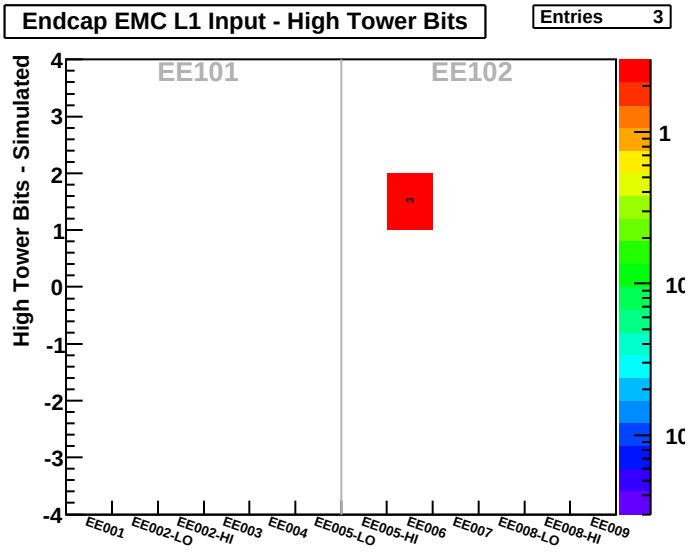

Endcap EMC L1 Input - Low Eta Sum
Entries 1233936
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

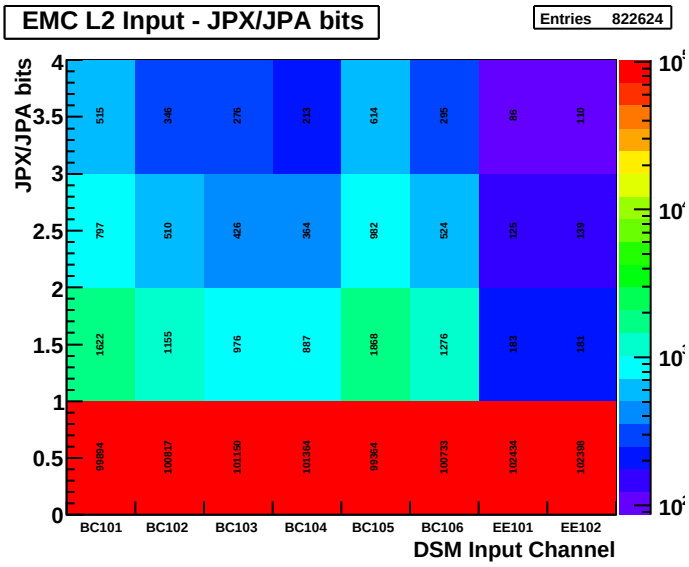

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

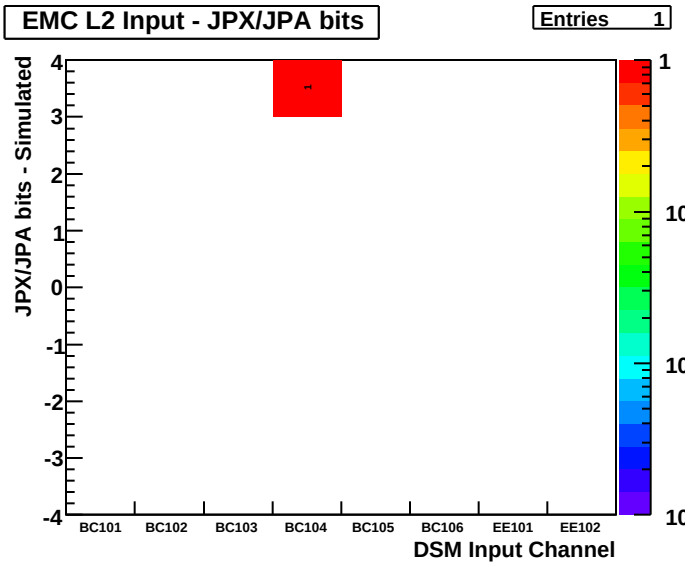

Endcap EMC L1 Input - High Eta Sum
Entries 1233936
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

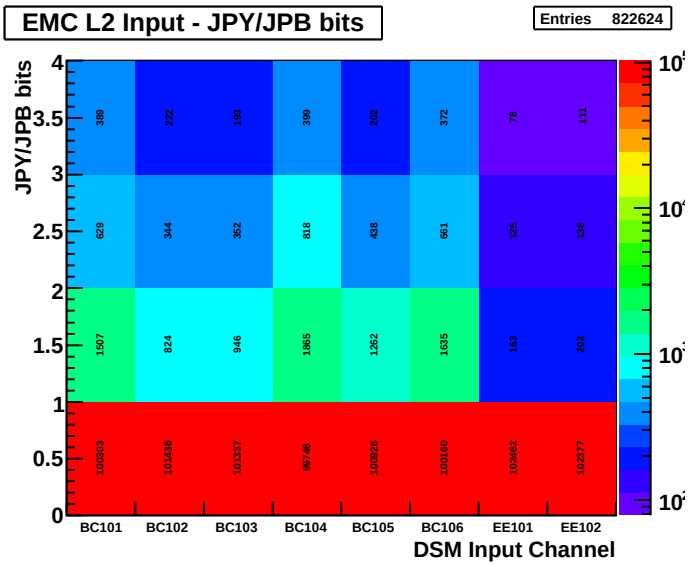

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

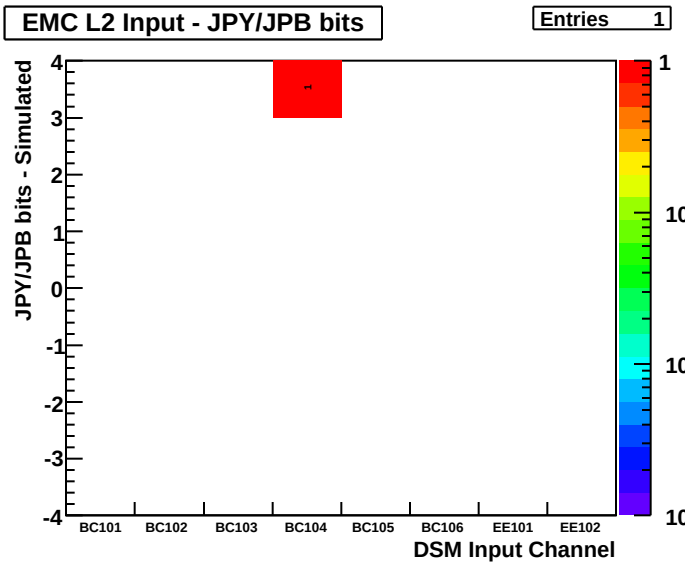

Endcap EMC L1 Input - High Tower Bits
Entries 1233936
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

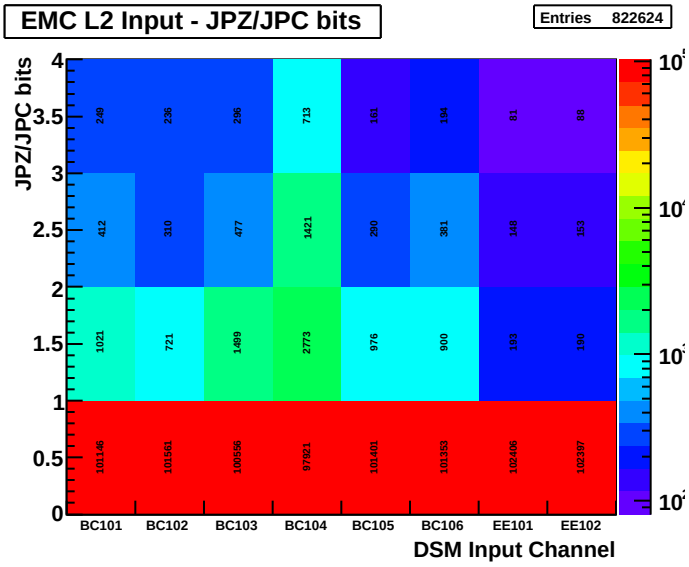

Endcap EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

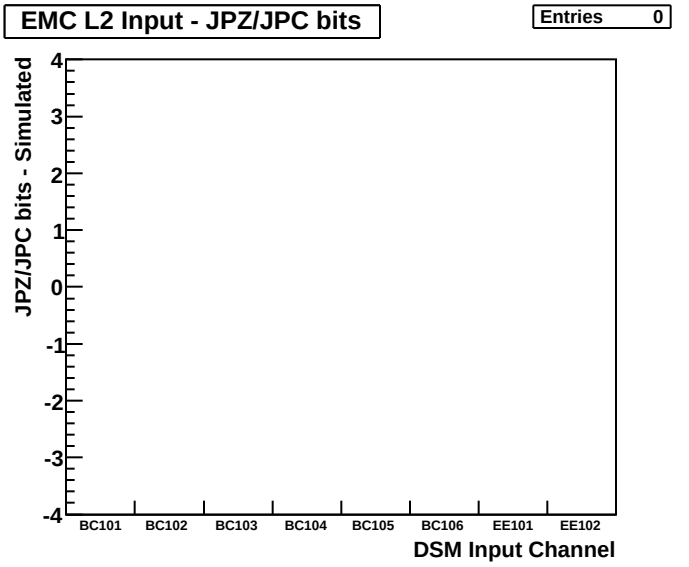

EMC L2 Input - JPX/JPA bits
Entries 822624
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
515 346 276 213 614 295 86 110
797 510 426 364 982 524 125 139
1622 1155 976 887 1868 1276 183 181
99894 100817 101150 101364 99364 100733 102434 102398

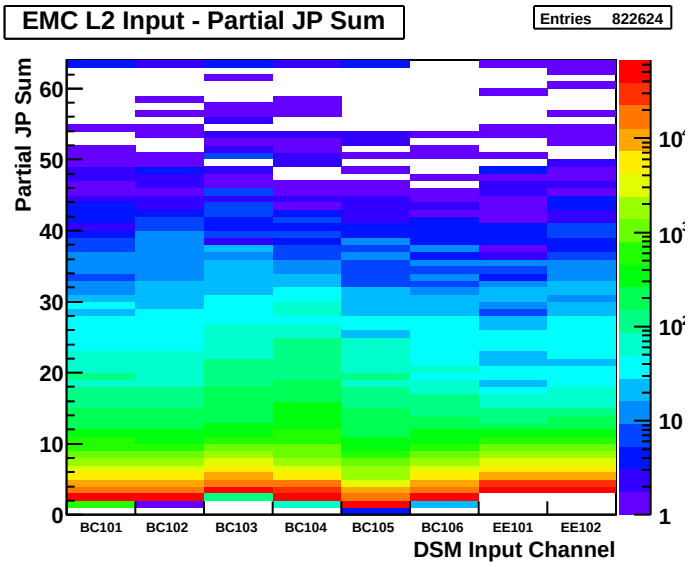

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

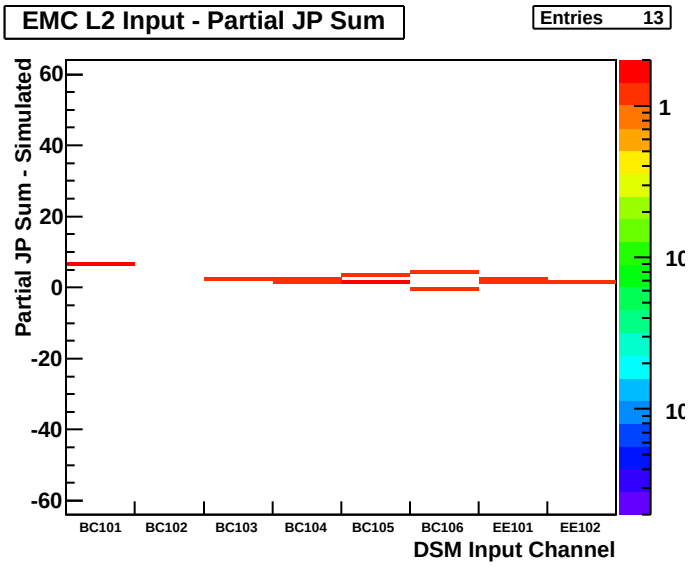

EMC L2 Input - JPY/JPB bits
Entries 822624
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
389 222 193 399 202 372 78 111
629 344 352 818 438 661 125 138
1507 824 946 1865 1262 1635 163 202
100303 101438 101337 99746 100926 100160 102462 102377

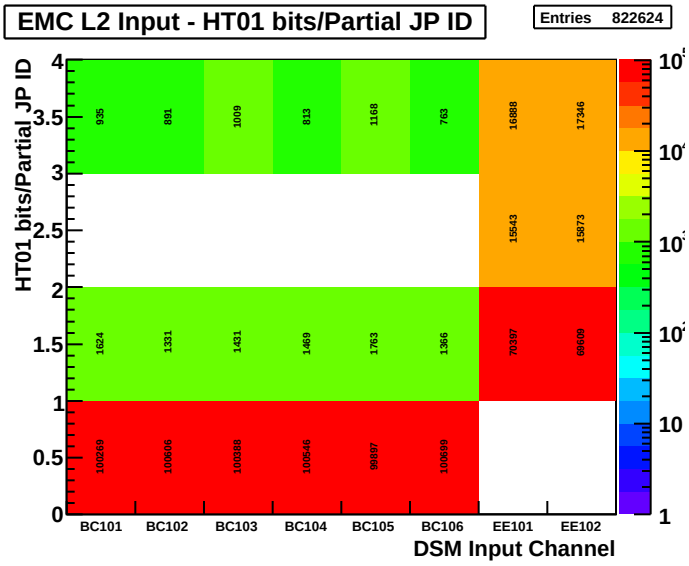

EMC L2 Input - JPY/JPB bits
Entries 1
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

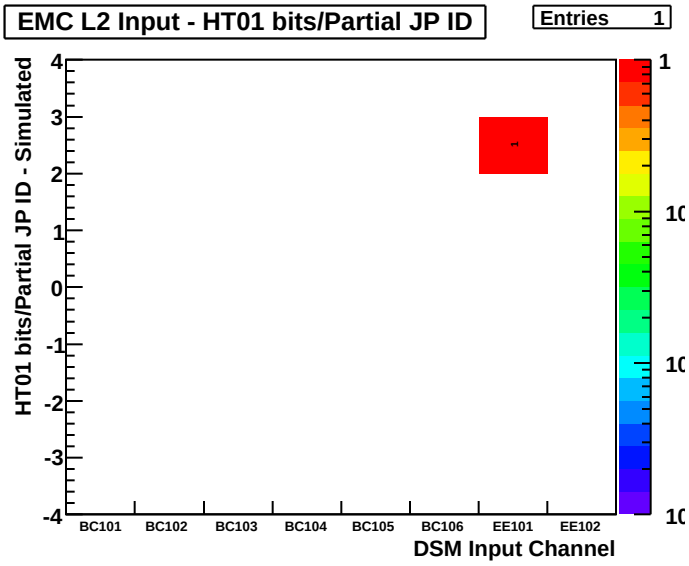

EMC L2 Input - JPZ/JPC bits
Entries 822624
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
249 236 296 713 161 194 81 88
412 310 477 1421 290 381 148 153
1021 721 1489 2773 976 900 193 190
101146 101561 100556 97921 101401 101353 102408 102397

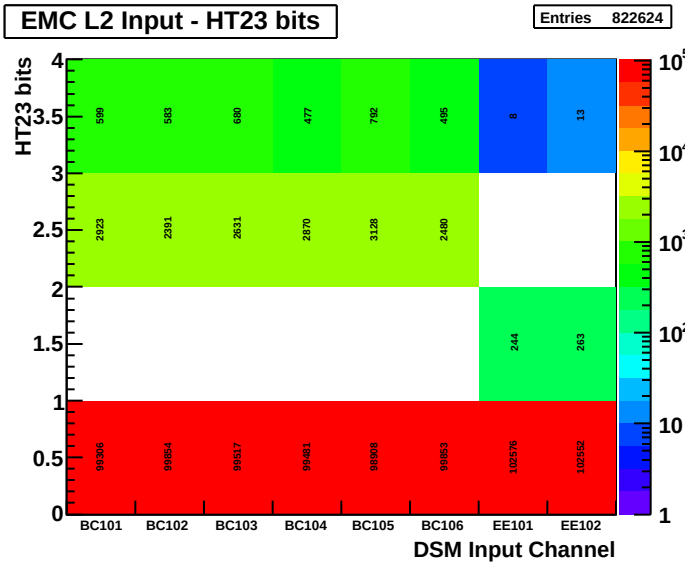

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

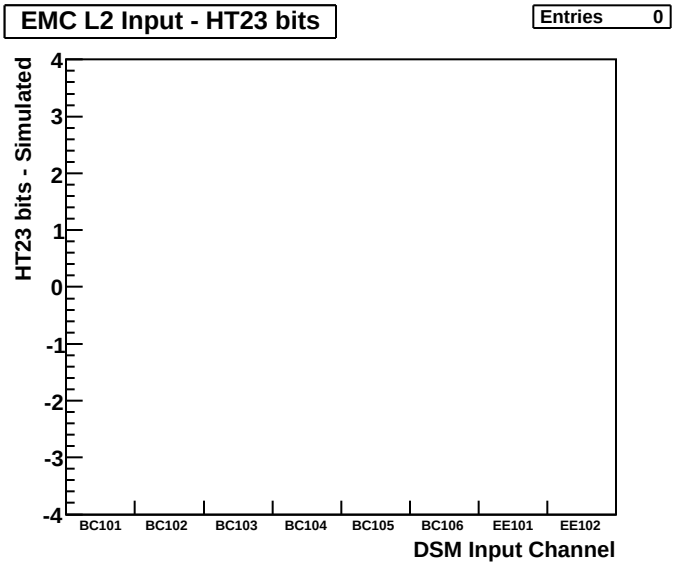

EMC L2 Input - Partial JP Sum
Entries 822624
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

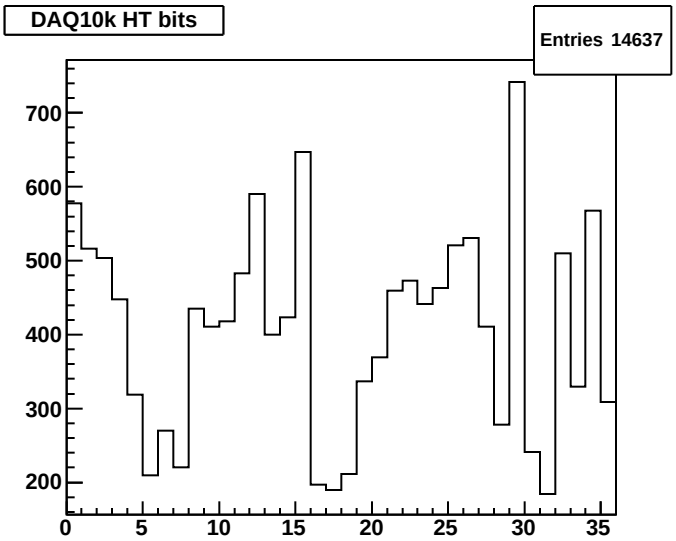

EMC L2 Input - Partial JP Sum
Entries 13
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

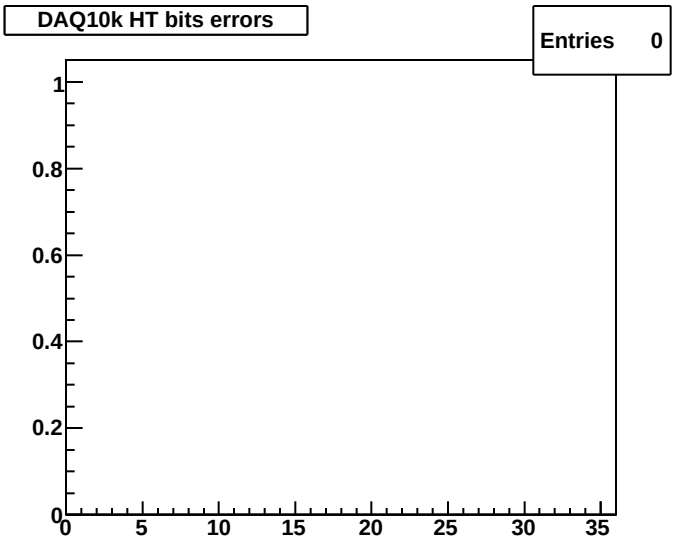

EMC L2 Input - HT01 bits/Partial JP ID
Entries 822624
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

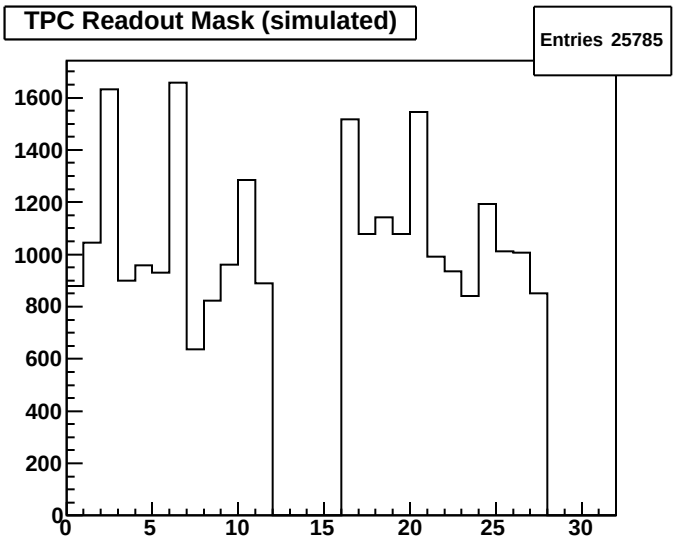

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

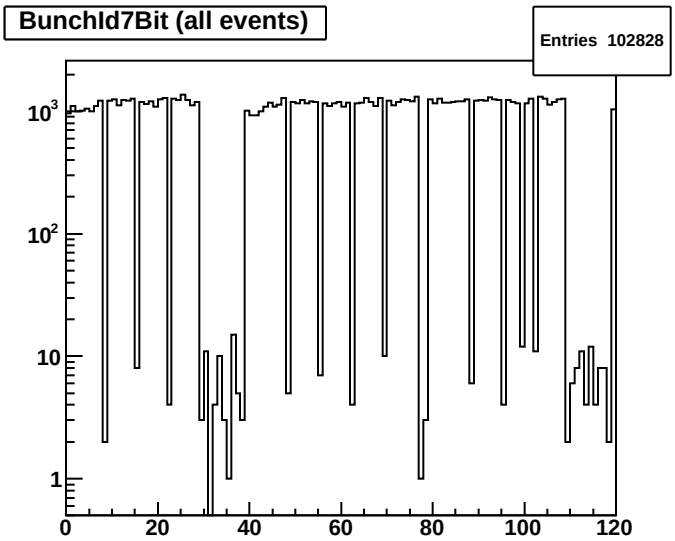

EMC L2 Input - HT23 bits
Entries 822624
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

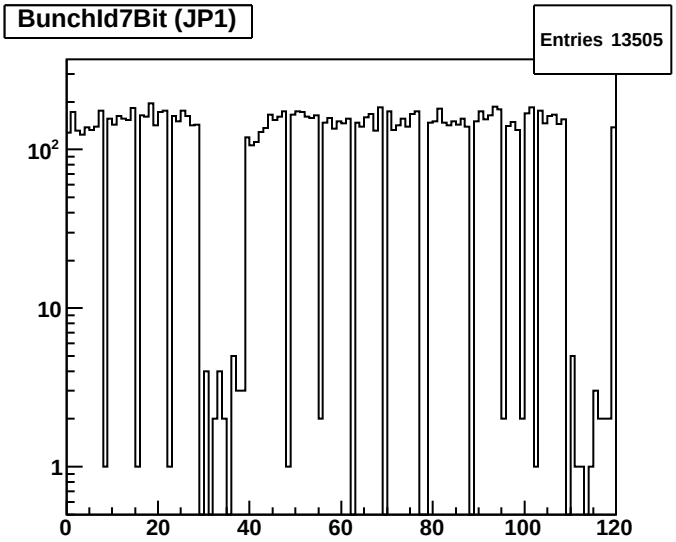

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

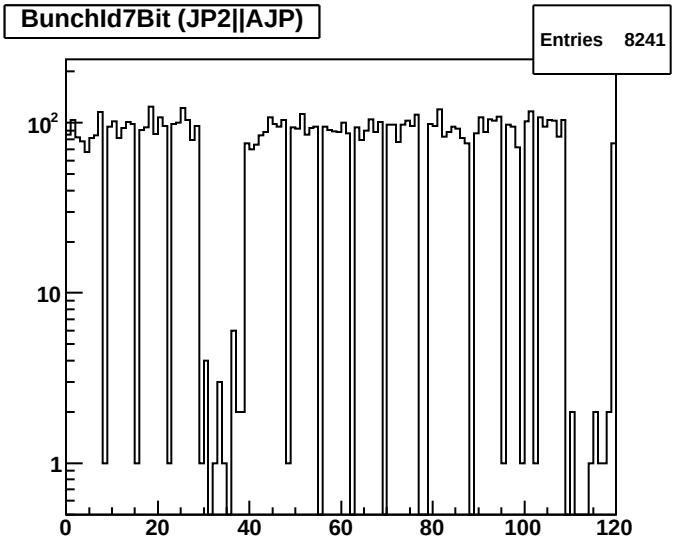

DAQ10k HT bits
Entries 14637

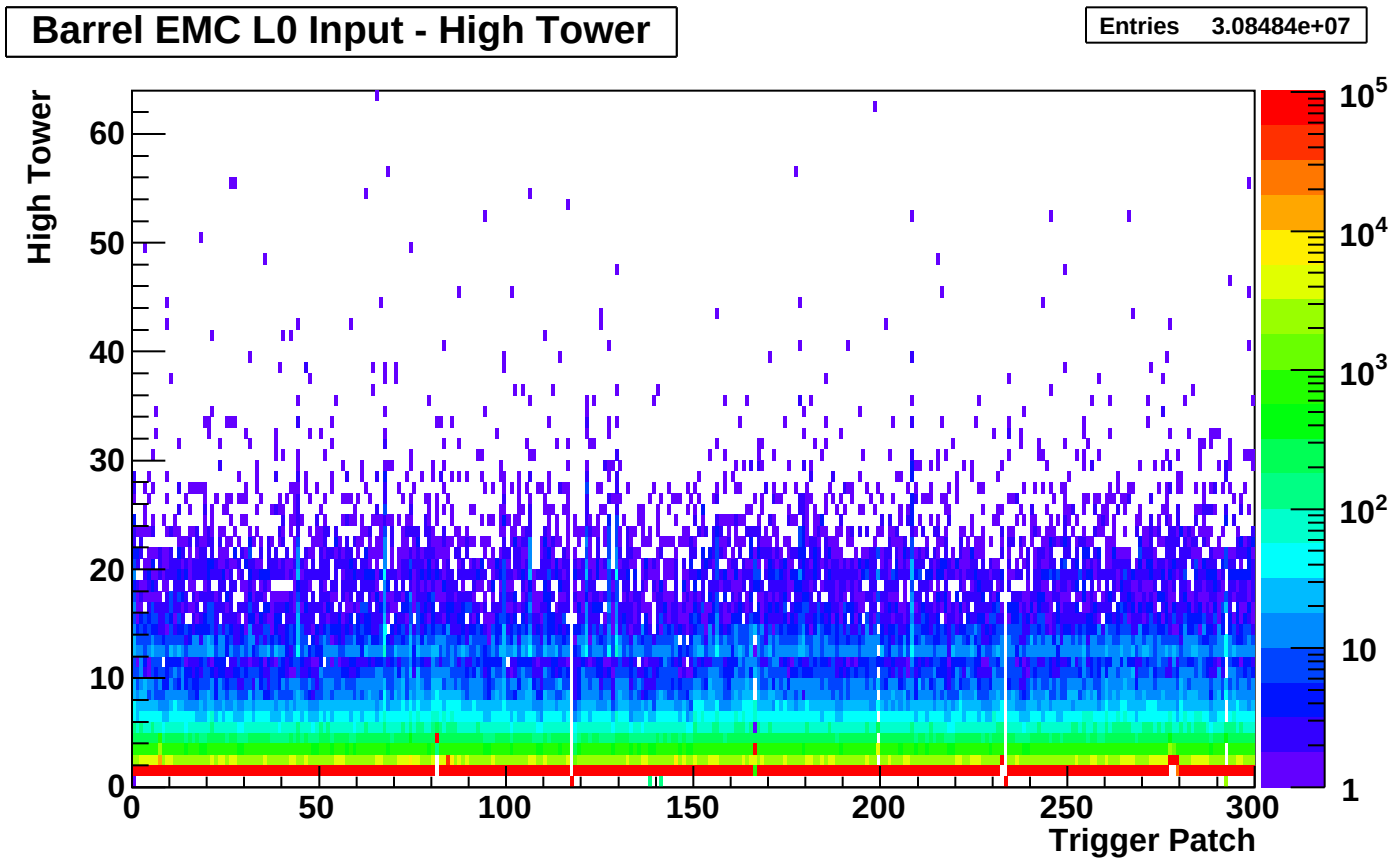

DAQ10k HT bits errors
Entries 0

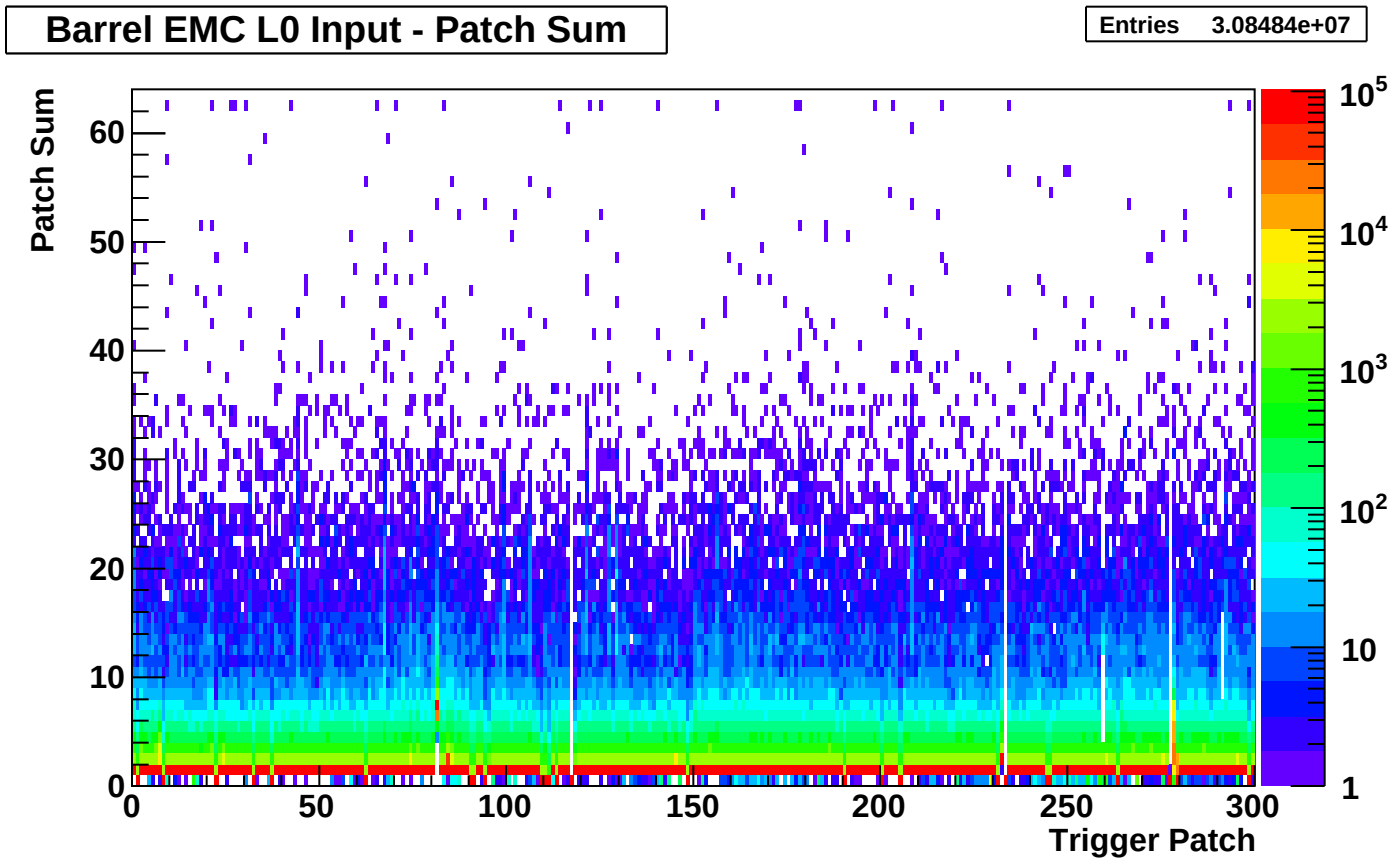

TPC Readout Mask (simulated)
Entries 25785

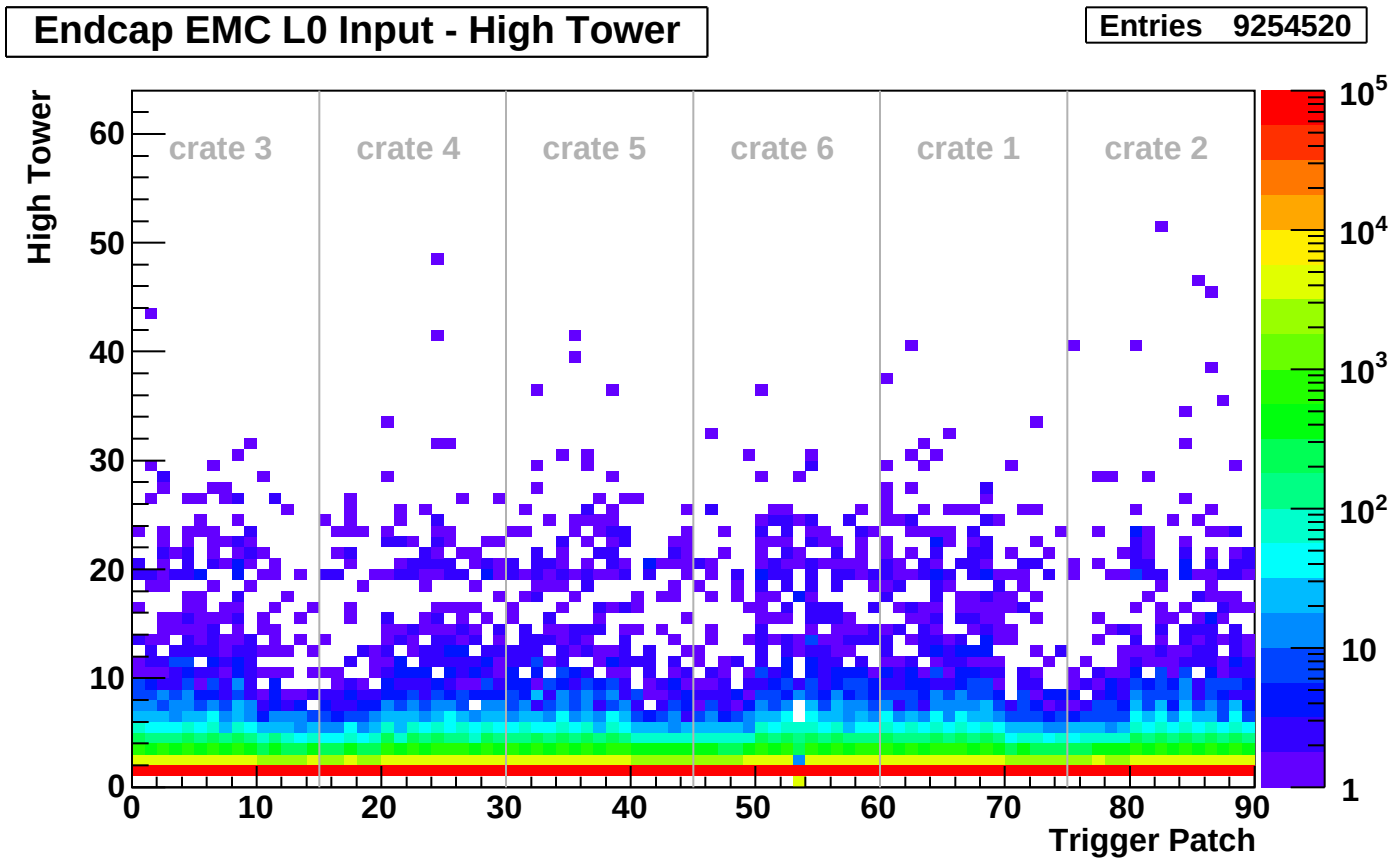

BunchId7Bit (all events)
Entries 102828

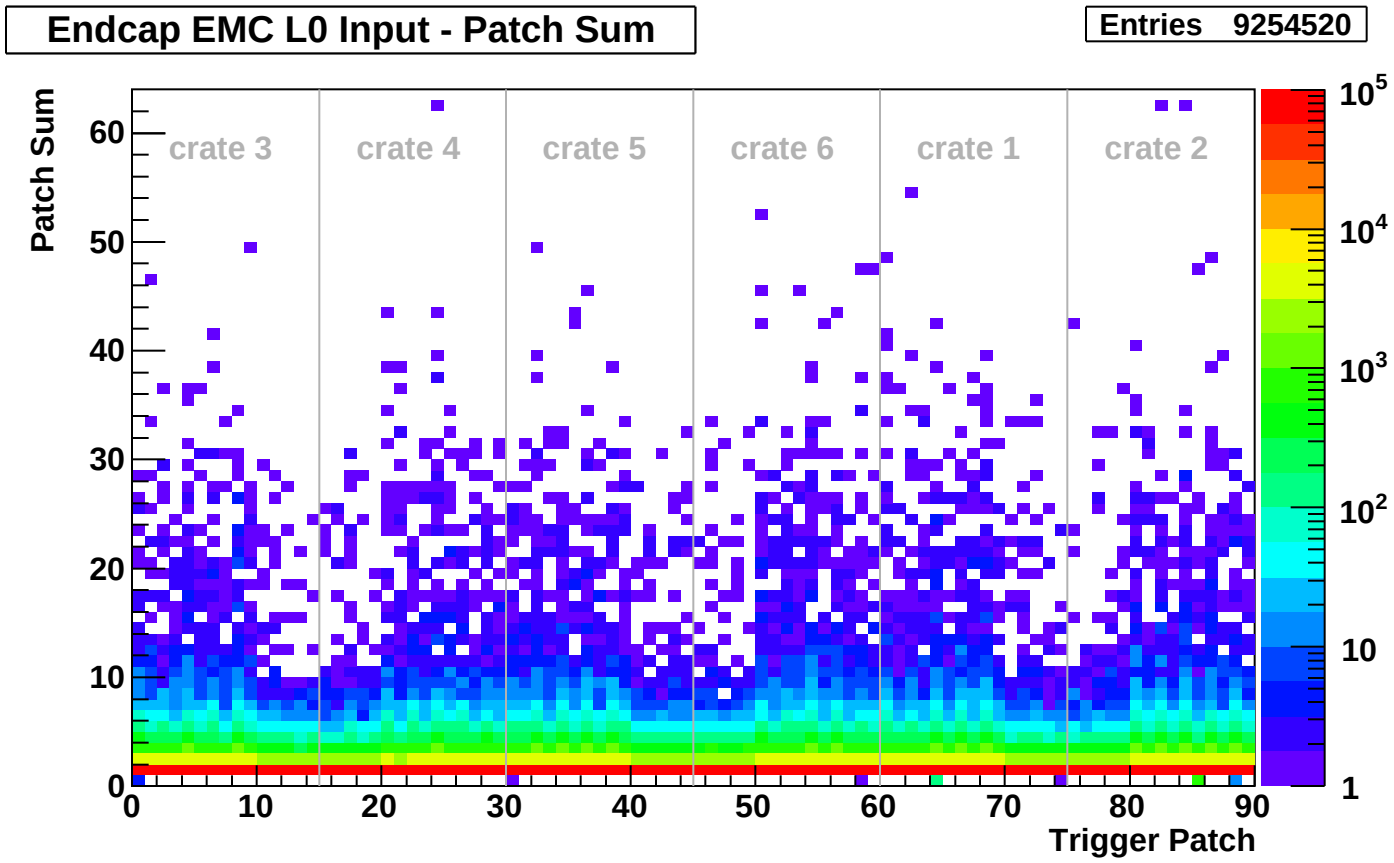

BunchId7Bit (JP1)
Entries 13505

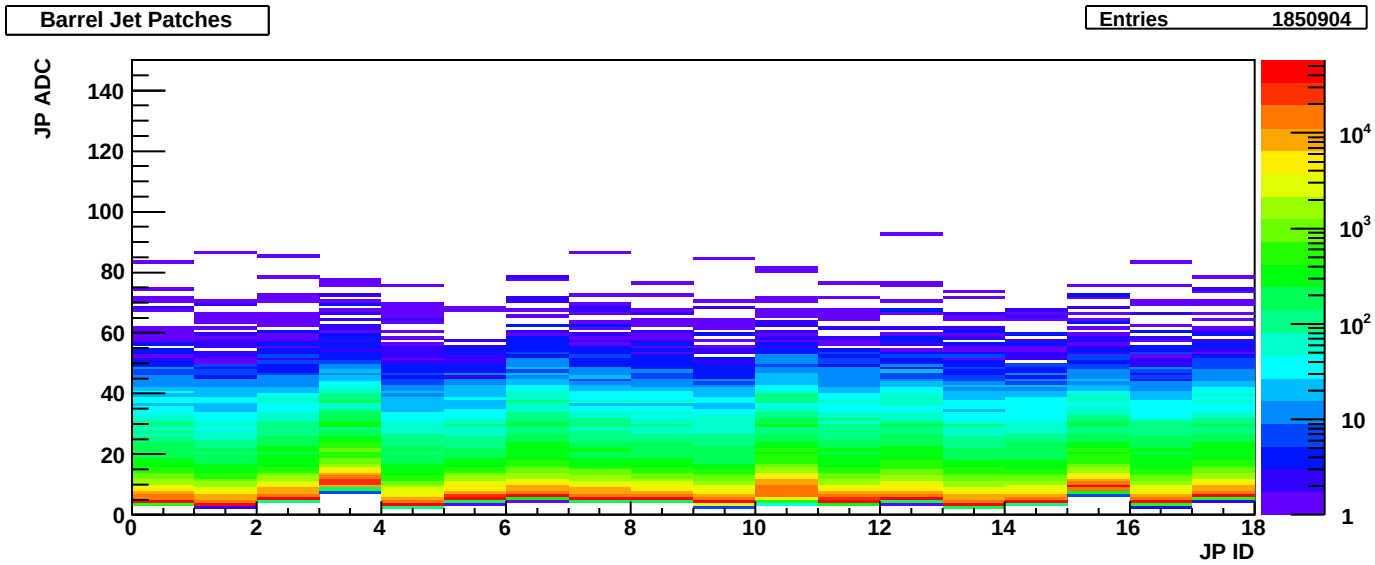

BunchId7Bit (JP2||AJP)
Entries 8241

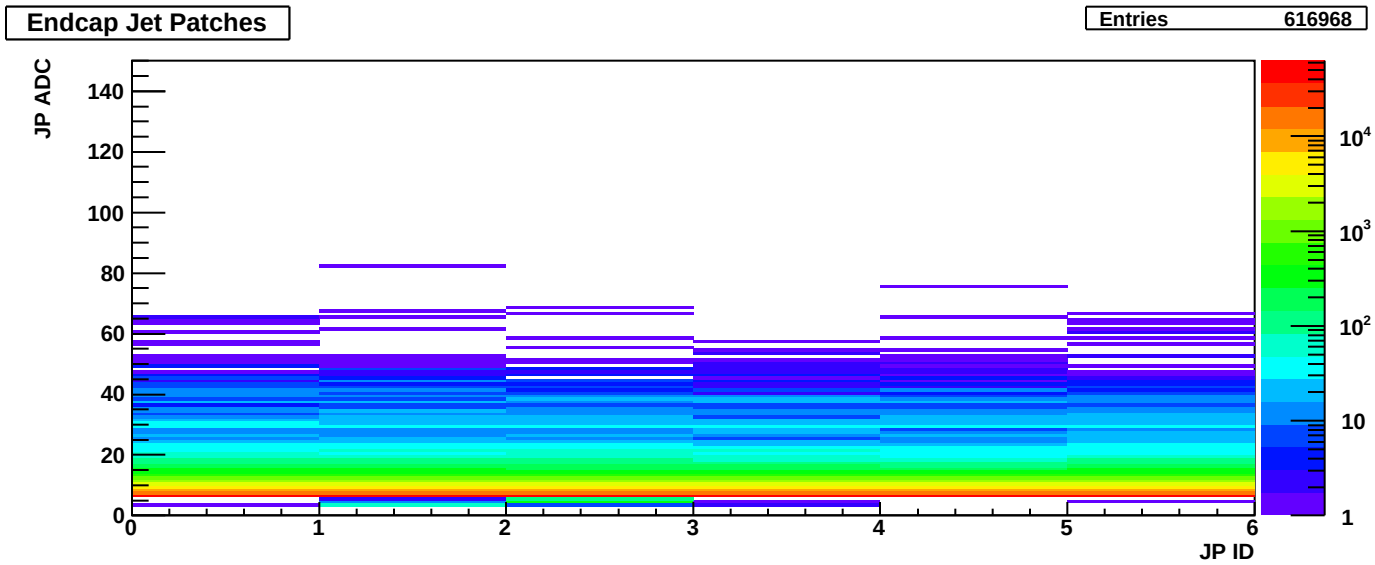

Barrel EMC L0 Input - High Tower
Entries 3.08484e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

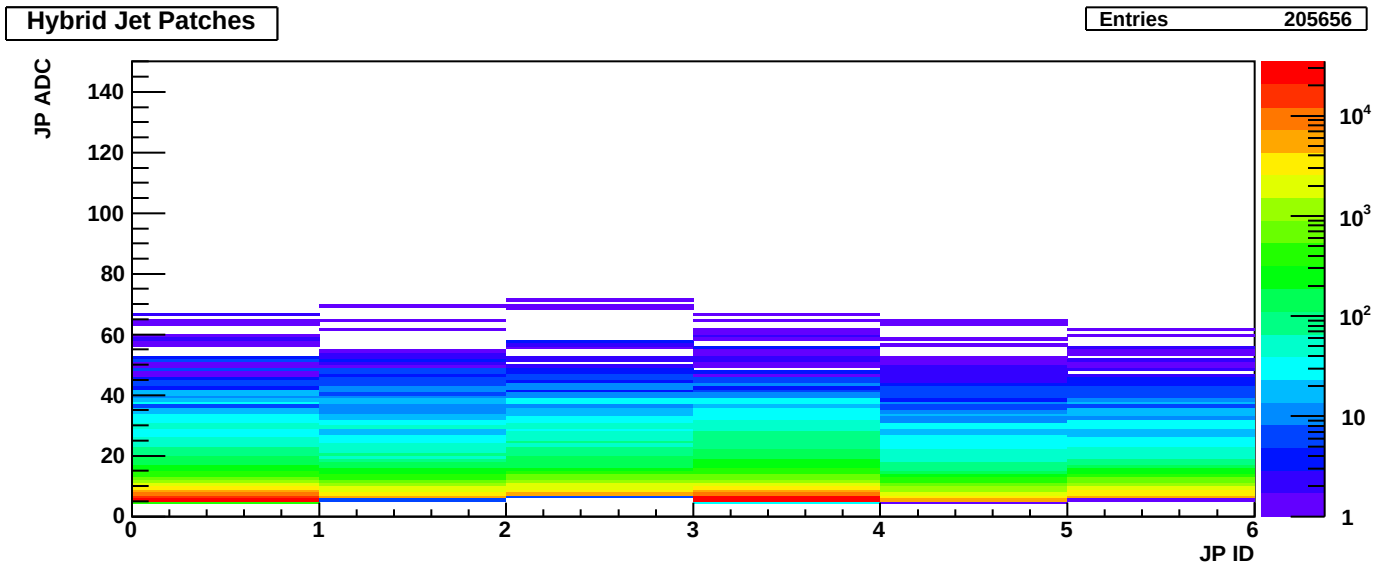

Barrel EMC L0 Input - Patch Sum
Entries 3.08484e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

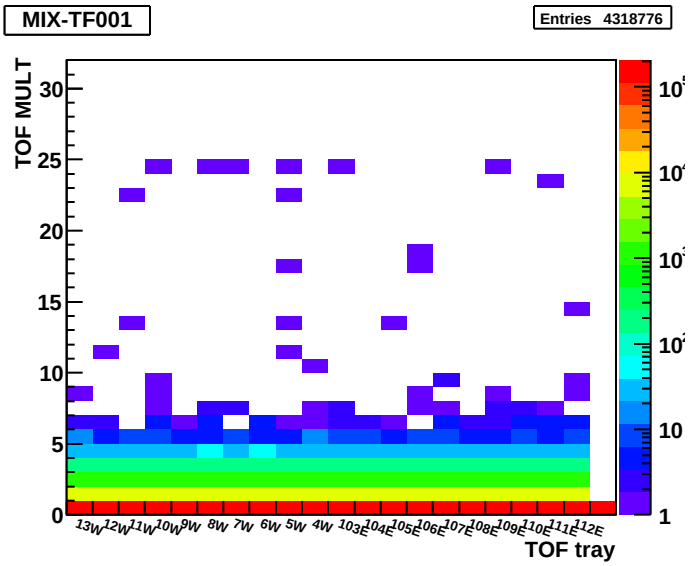

Endcap EMC L0 Input - High Tower
Entries 9254520
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

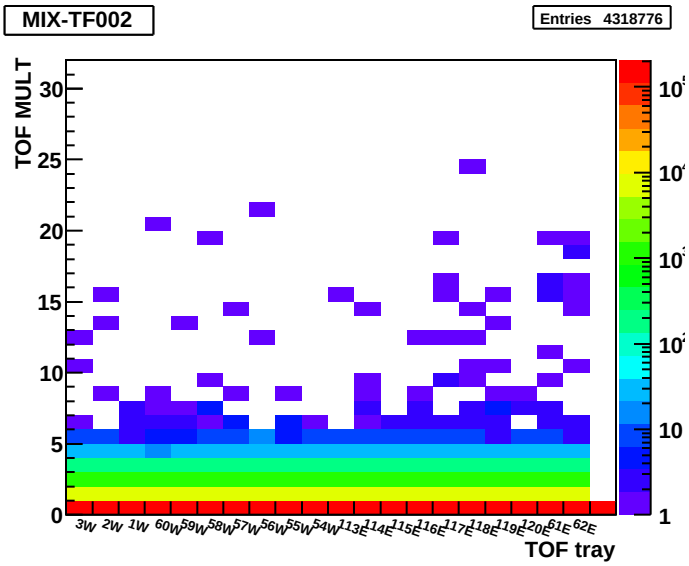

Endcap EMC L0 Input - Patch Sum
Entries 9254520
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

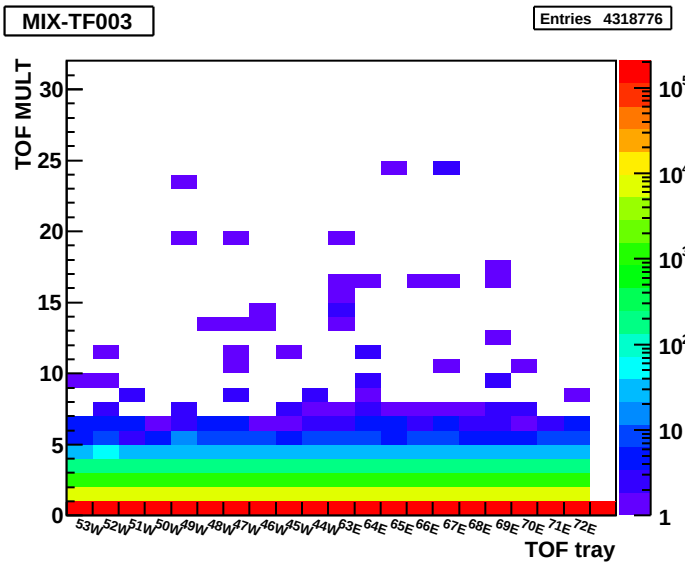

Barrel Jet Patches
Entries 1850904
JP ADC
JP ID

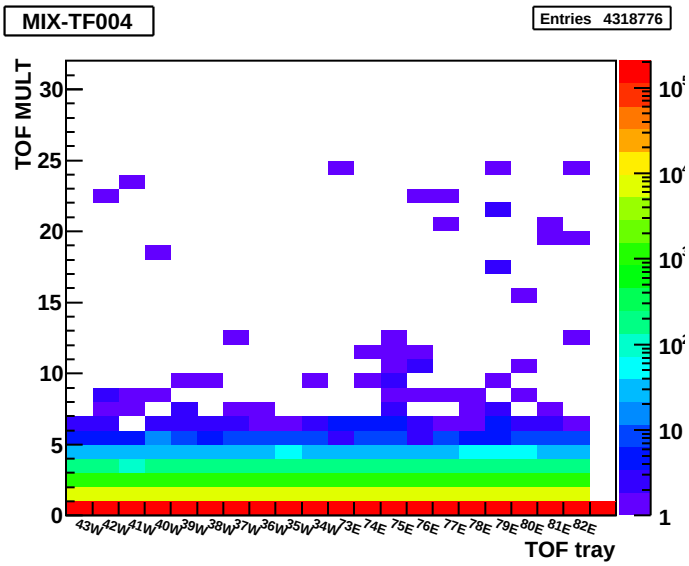

Endcap Jet Patches
Entries 616968
JP ADC
JP ID

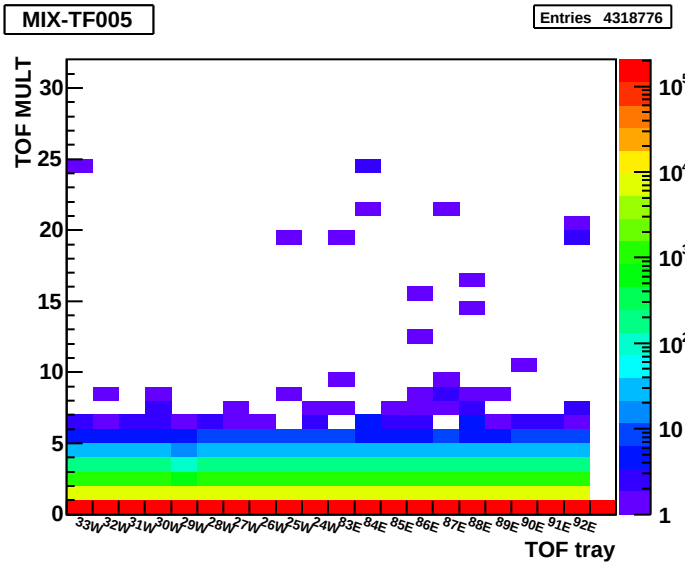

Hybrid Jet Patches
Entries 205656
JP ADC
JP ID

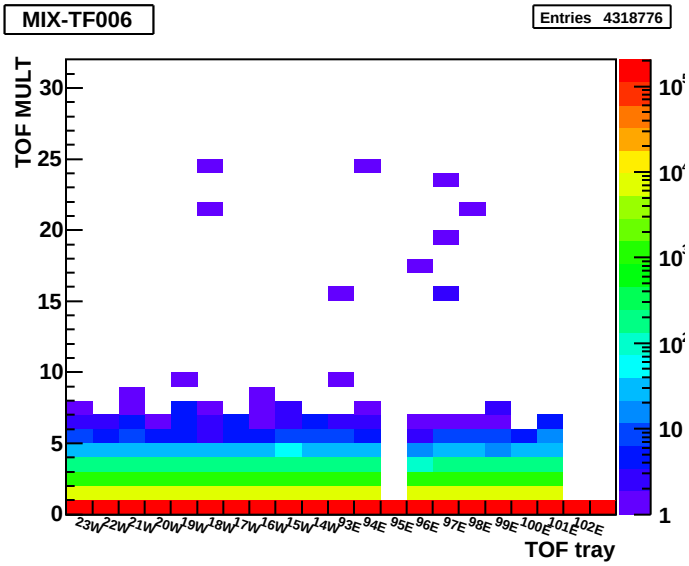

MIX-TF001
Entries 4318776
TOF MULT
TOF tray

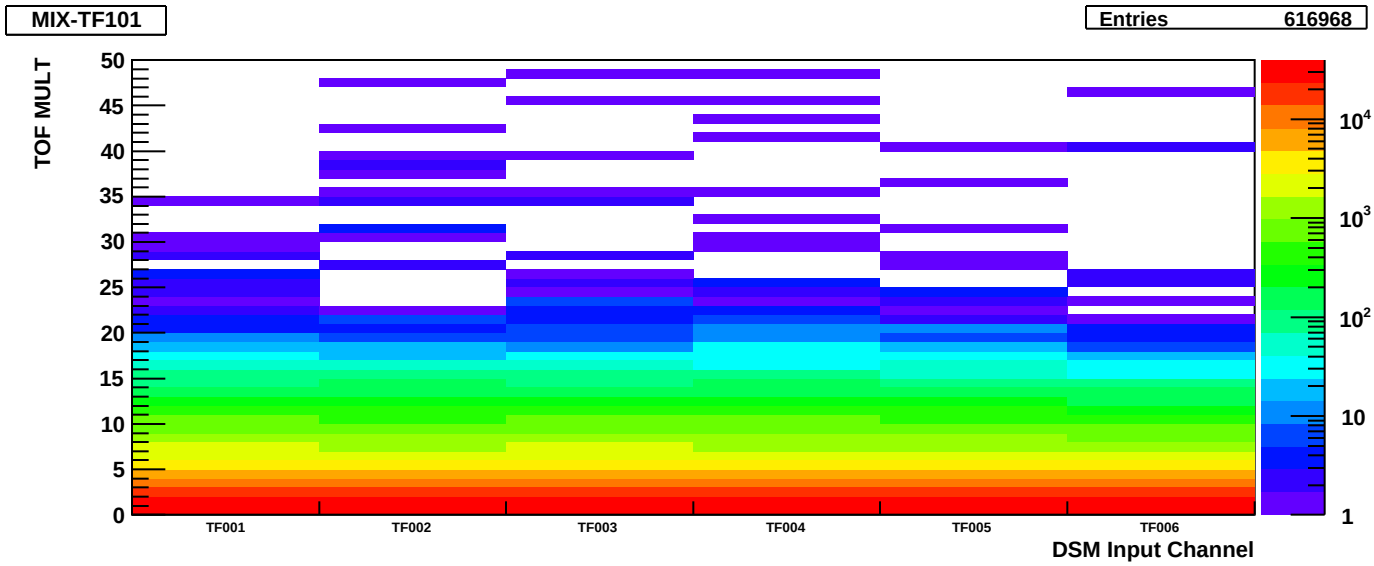

MIX-TF002
Entries 4318776
TOF MULT
TOF tray

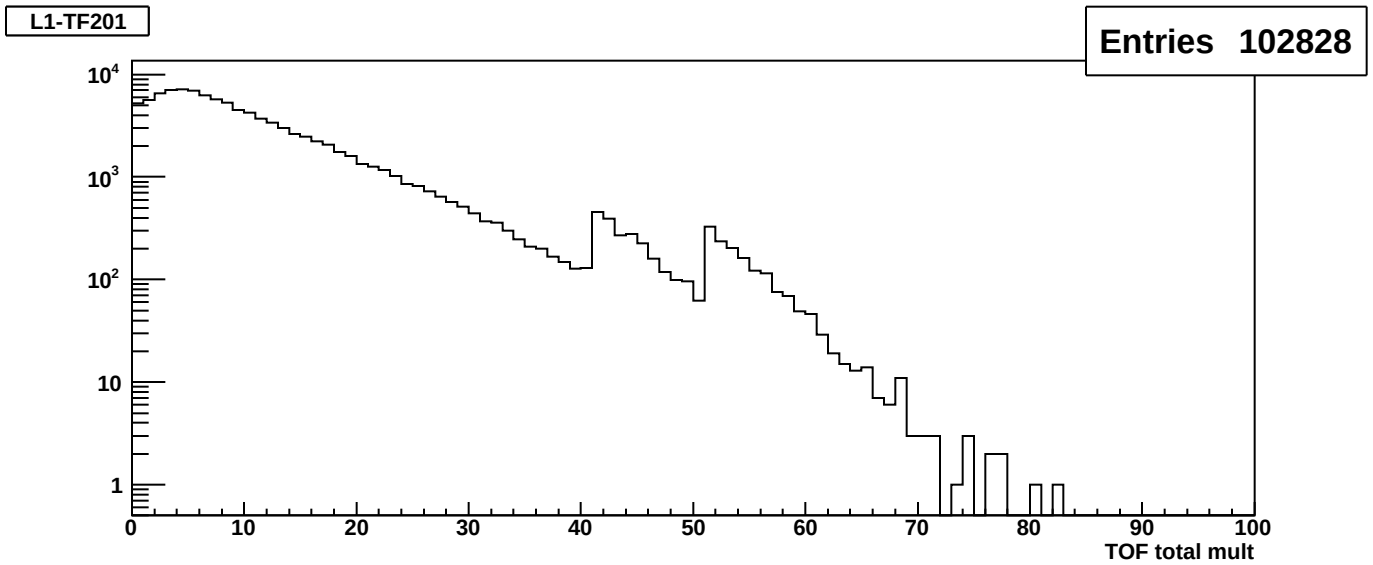

MIX-TF003
Entries 4318776
TOF MULT
TOF tray

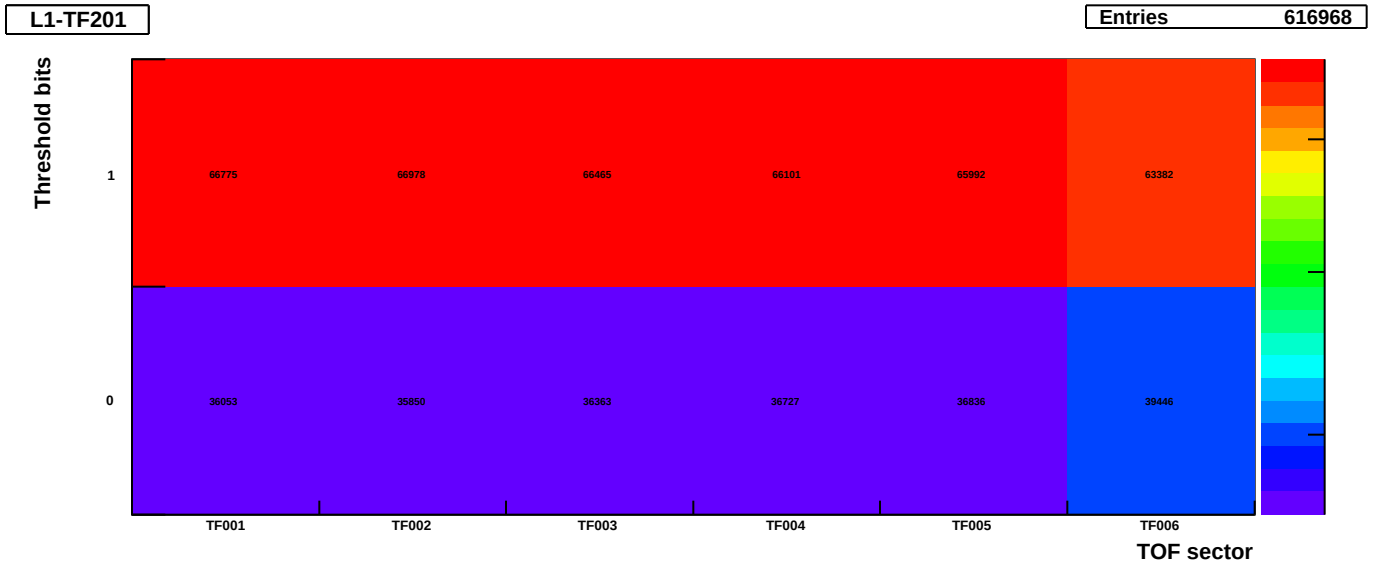

MIX-TF004
Entries 4318776
TOF MULT
TOF tray

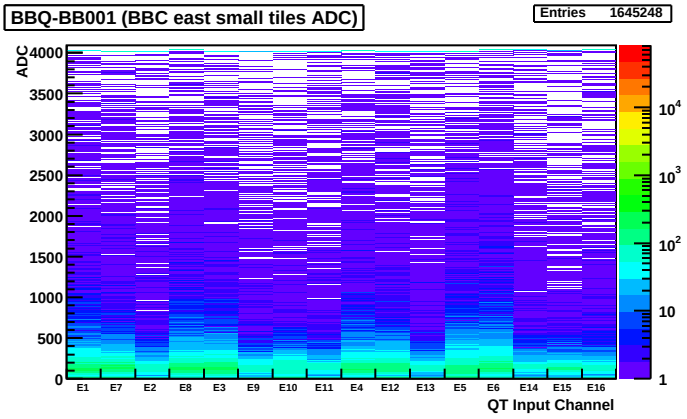

MIX-TF005
Entries 4318776
TOF MULT
TOF tray

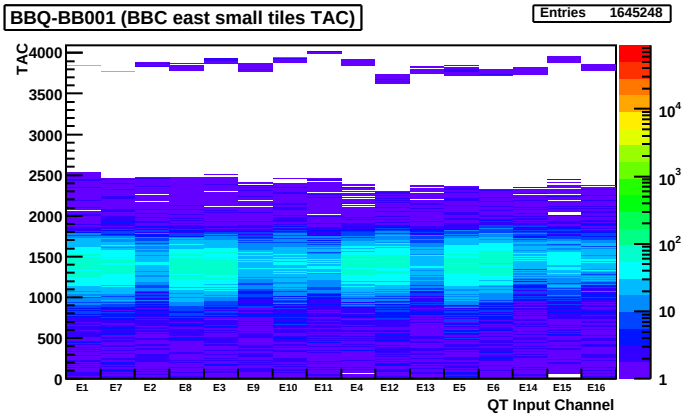

MIX-TF006
Entries 4318776
TOF MULT
TOF tray

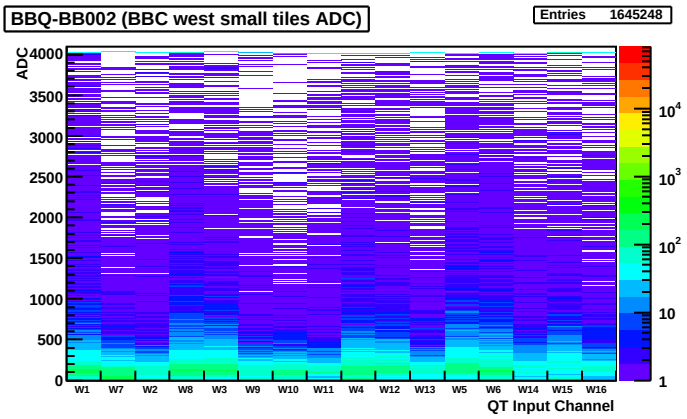

MIX-TF101
Entries 616968
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

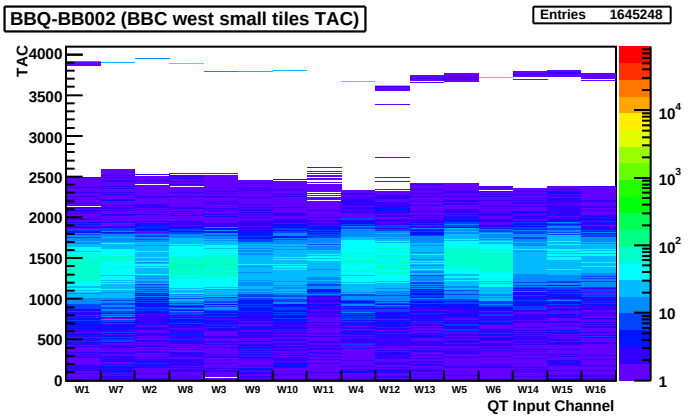

L1-TF201
Entries 102828
TOF total mult

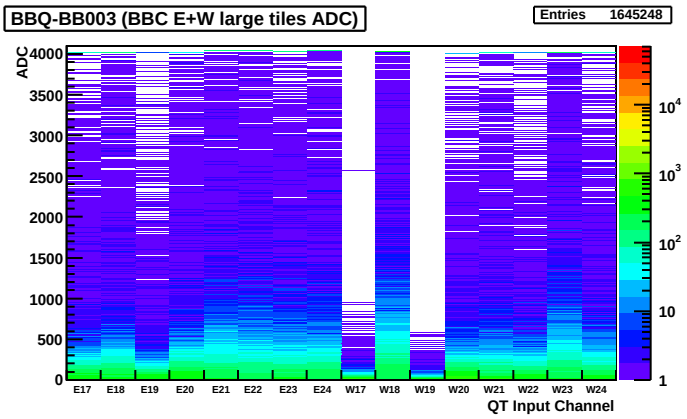

L1-TF201
Entries 616968
Threshold bits
66775
66978
66465
66101
65992
63382
36053
35850
36363
36727
36836
39446
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

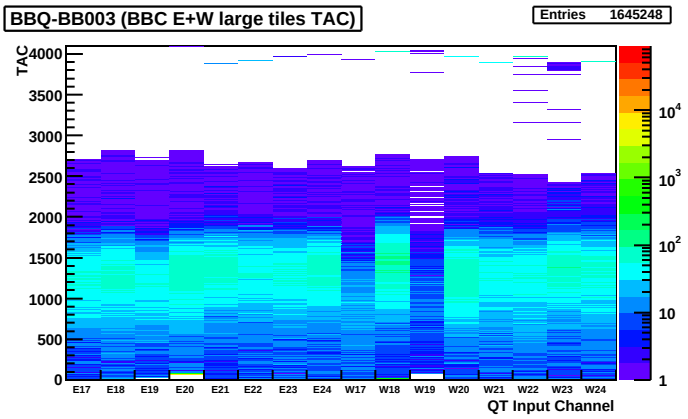

BBQ-BB001 (BBC east small tiles ADC)
Entries 1645248
ADC
QT Input Channel

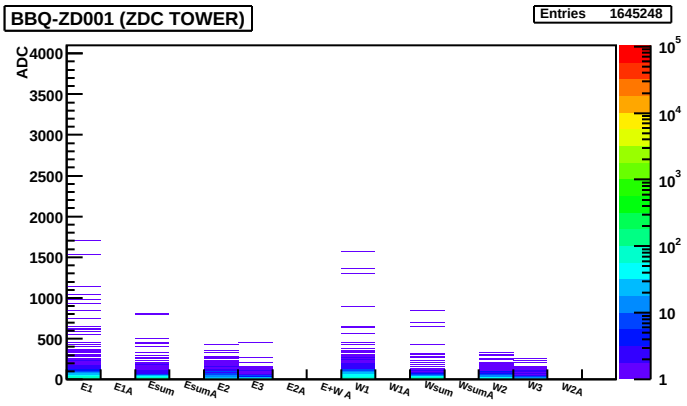

BBQ-BB001 (BBC east small tiles TAC)
Entries 1645248
TAC
QT Input Channel

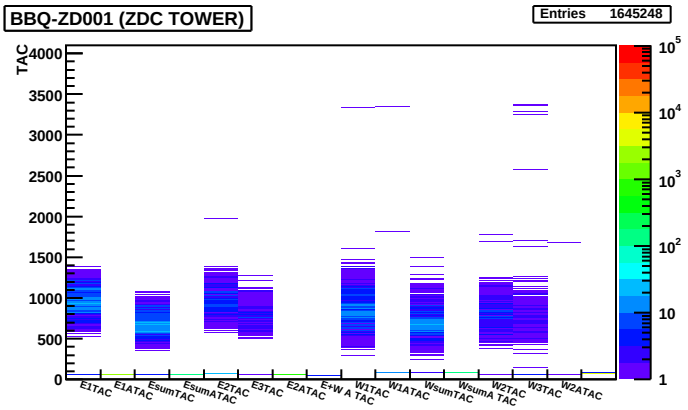

BBQ-BB002 (BBC west small tiles ADC)
Entries 1645248
ADC
QT Input Channel

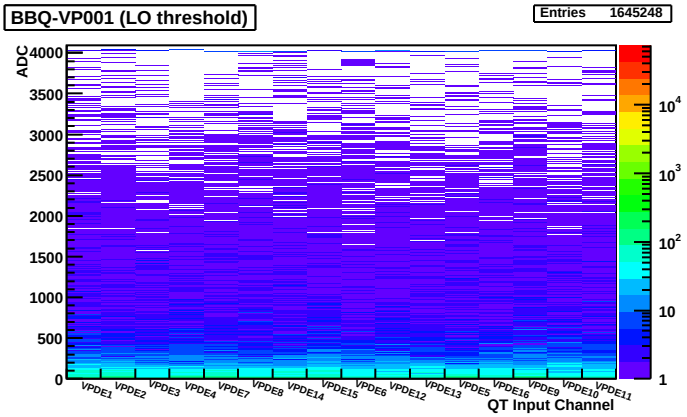

BBQ-BB002 (BBC west small tiles TAC)
Entries 1645248
TAC
QT Input Channel

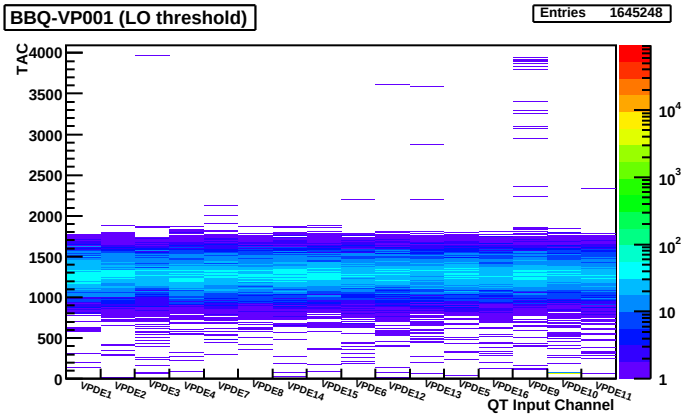

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1645248
ADC
QT Input Channel

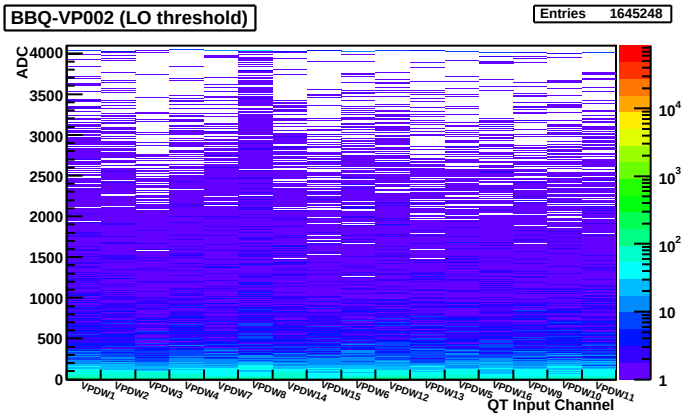

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1645248
TAC
QT Input Channel

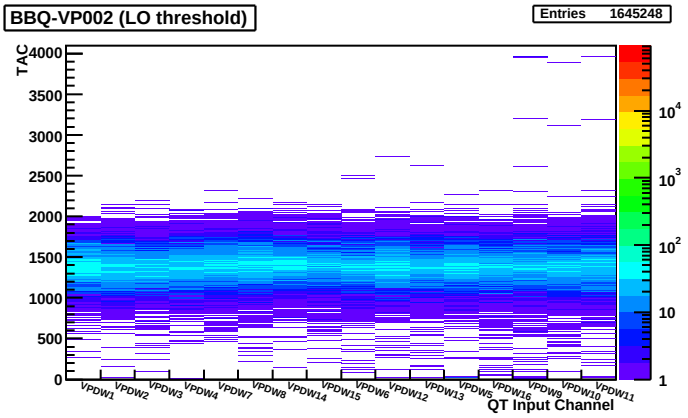

BBQ-ZD001 (ZDC TOWER)
Entries 1645248
ADC

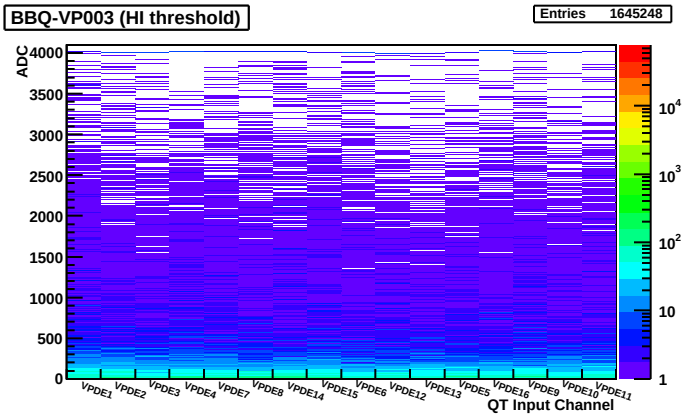

BBQ-ZD001 (ZDC TOWER)
Entries 1645248
TAC

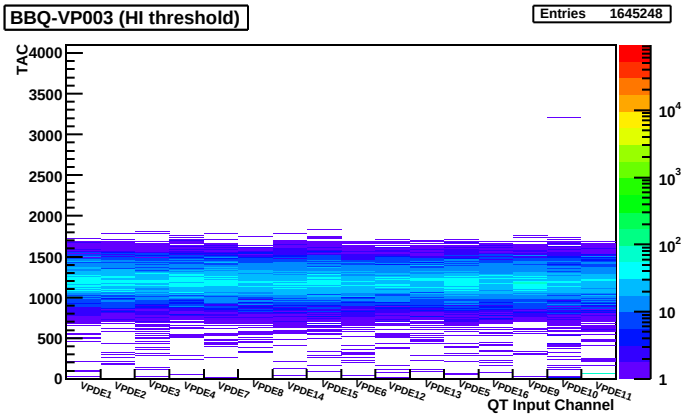

BBQ-VP001 (LO threshold)
Entries 1645248
ADC
QT Input Channel

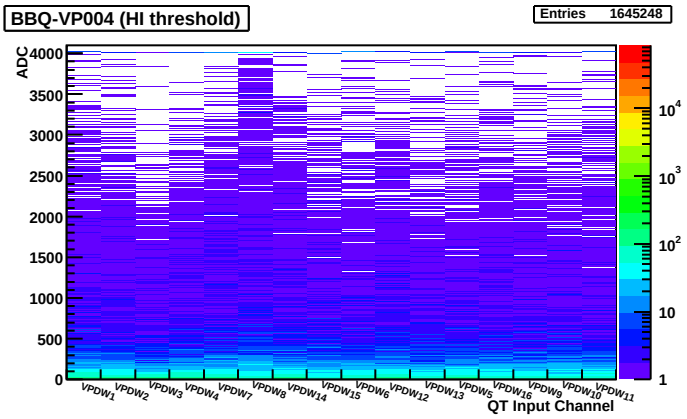

BBQ-VP001 (LO threshold)
Entries 1645248
TAC
QT Input Channel

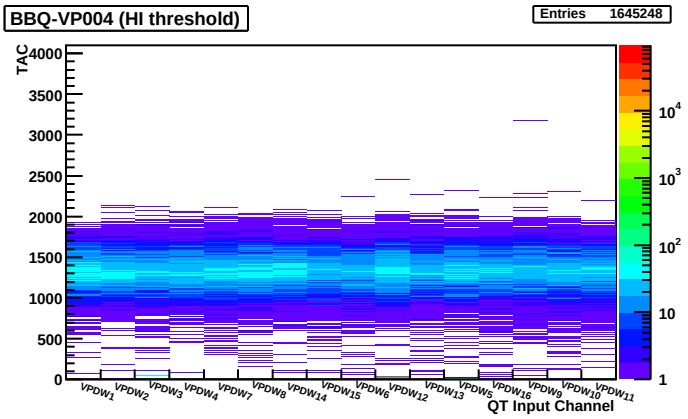

BBQ-VP002 (LO threshold)
Entries 1645248
ADC
QT Input Channel

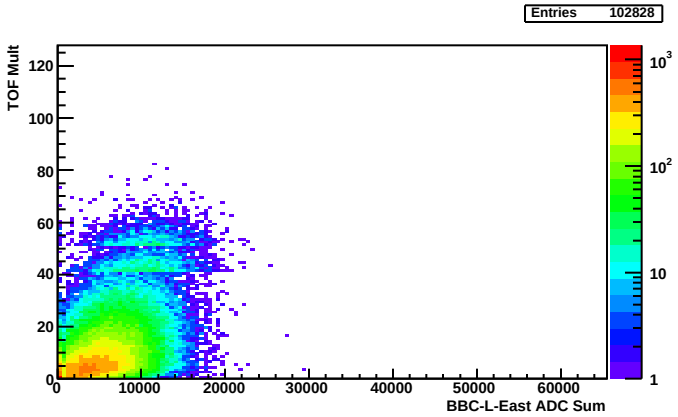

BBQ-VP002 (LO threshold)
Entries 1645248
TAC
QT Input Channel

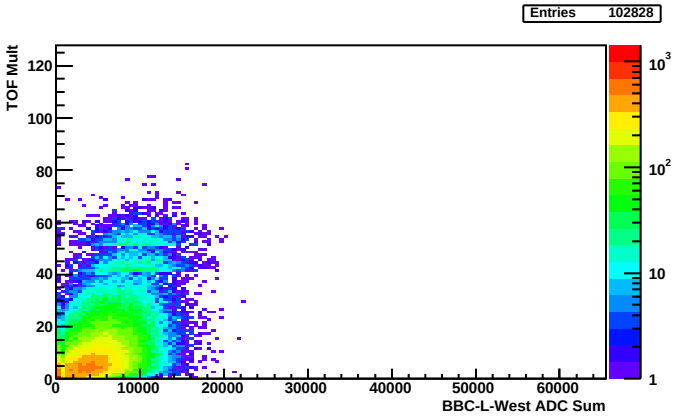

BBQ-VP003 (HI threshold)
Entries 1645248
ADC
QT Input Channel

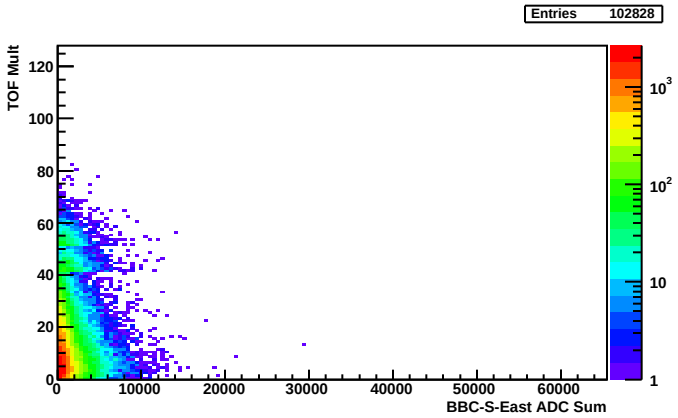

BBQ-VP003 (HI threshold)
Entries 1645248
TAC
QT Input Channel

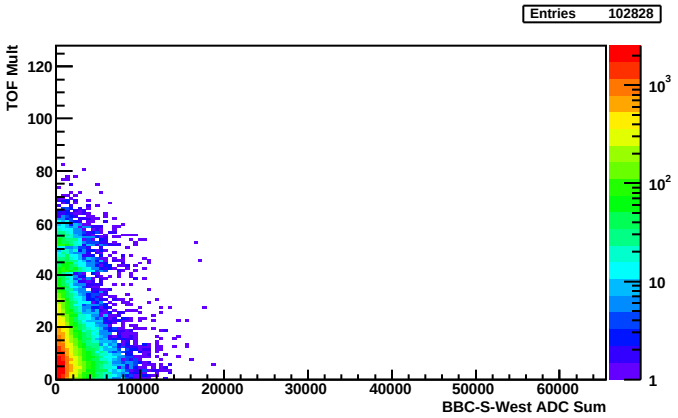

BBQ-VP004 (HI threshold)
Entries 1645248
ADC
QT Input Channel

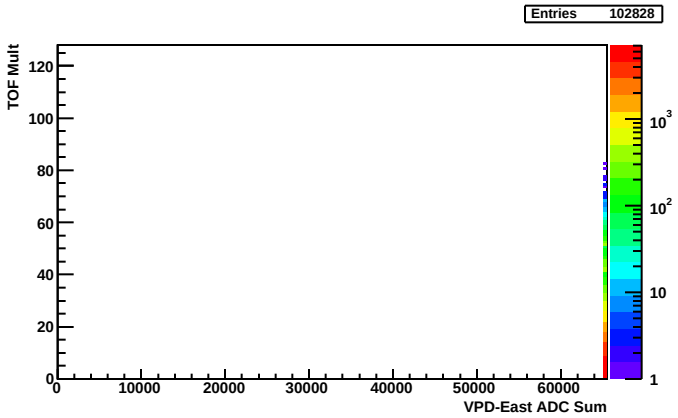

BBQ-VP004 (HI threshold)
Entries 1645248
TAC
QT Input Channel

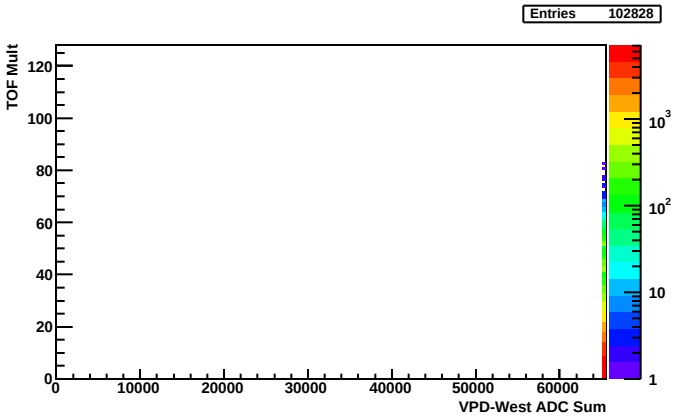

Entries 102828
TOF Mult
BBC-L-East ADC Sum

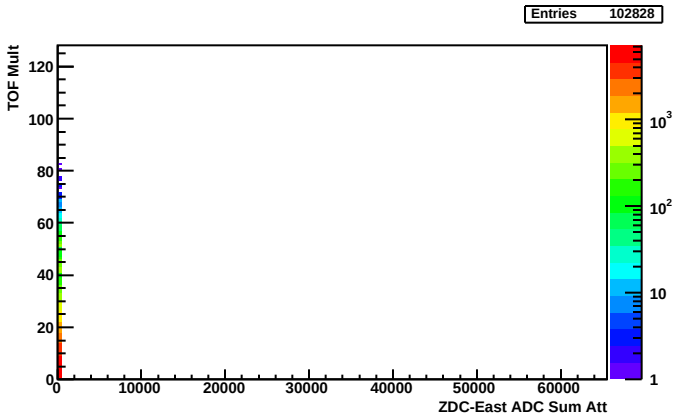

Entries 102828
TOF Mult
BBC-L-West ADC Sum

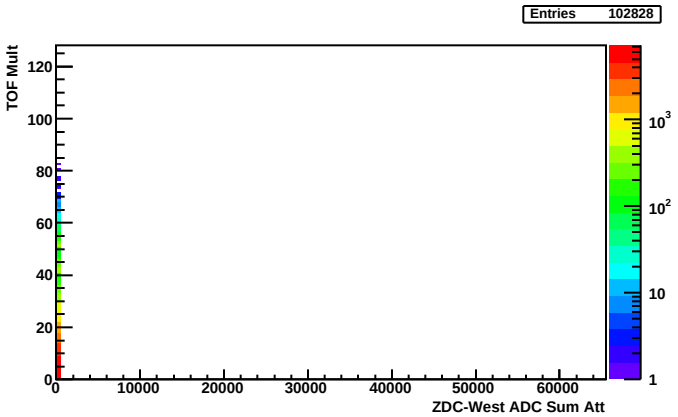

Entries 102828
TOF Mult
BBC-S-East ADC Sum

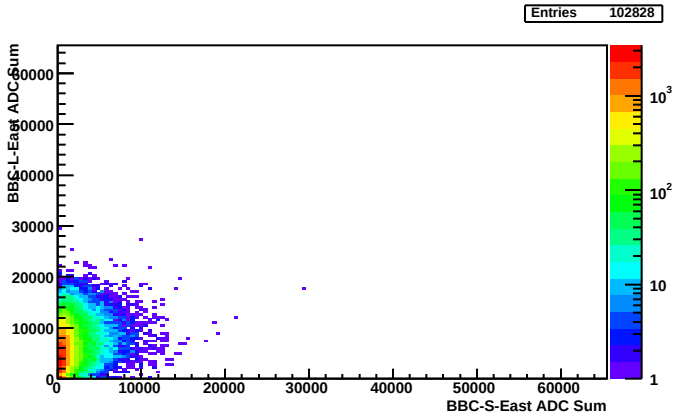

Entries 102828
TOF Mult
BBC-S-West ADC Sum

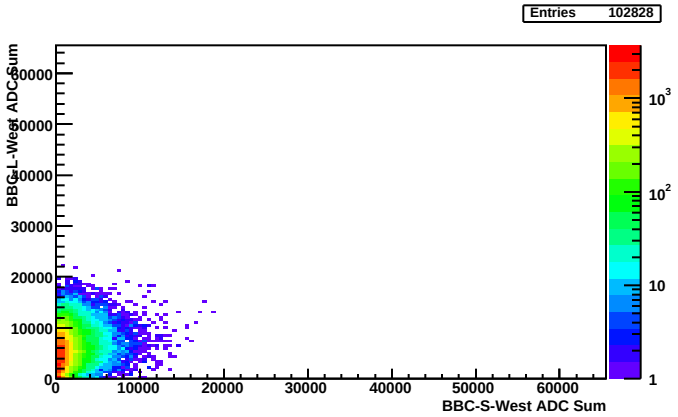

Entries 102828
TOF Mult
VPD-East ADC Sum

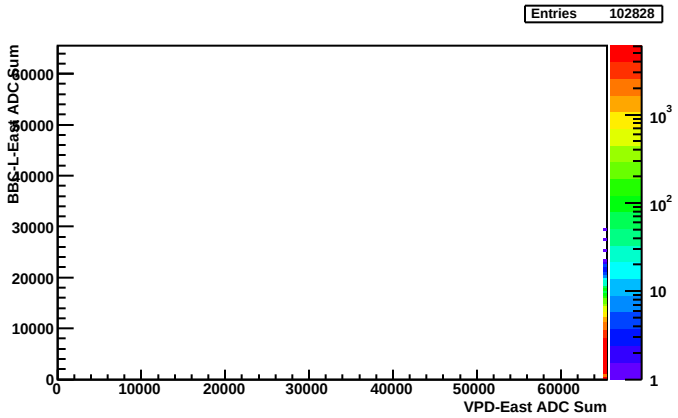

Entries 102828
TOF Mult
VPD-West ADC Sum

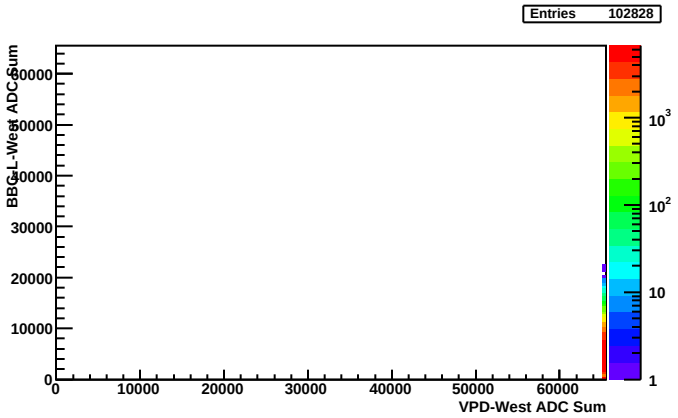

Entries 102828
TOF Mult
ZDC-East ADC Sum Att

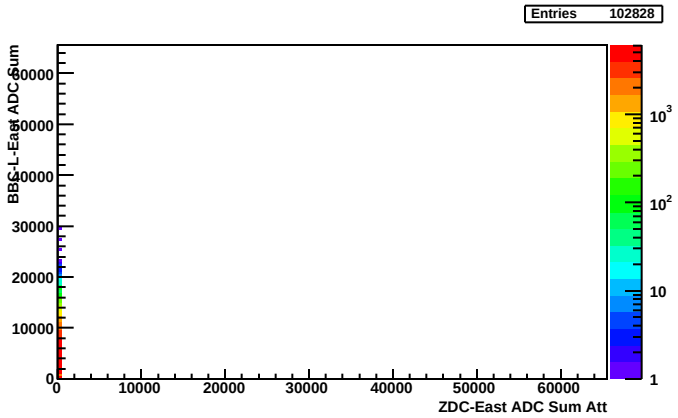

Entries 102828
TOF Mult
ZDC-West ADC Sum Att

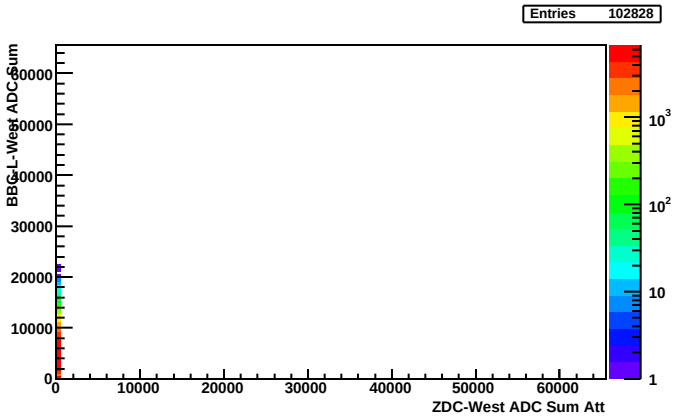

Entries 102828
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 102828
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 102828
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 102828
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 102828
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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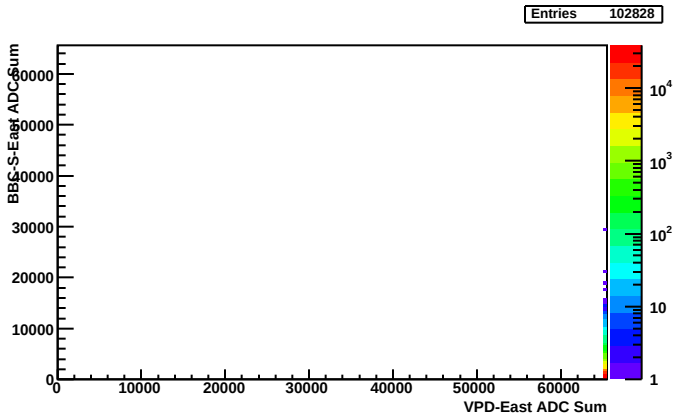
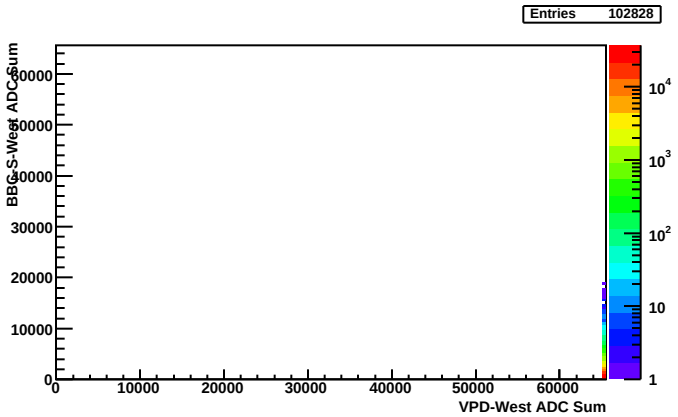
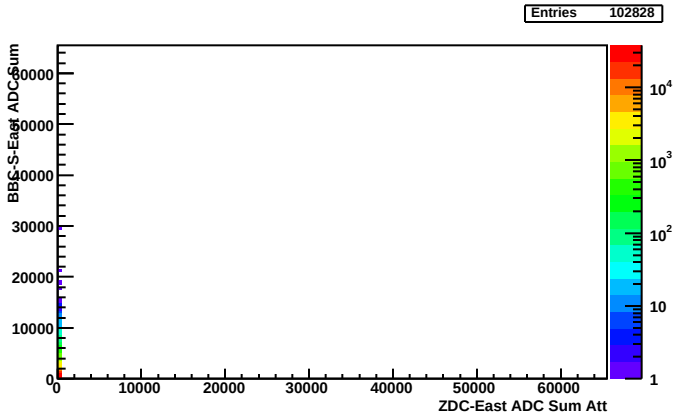
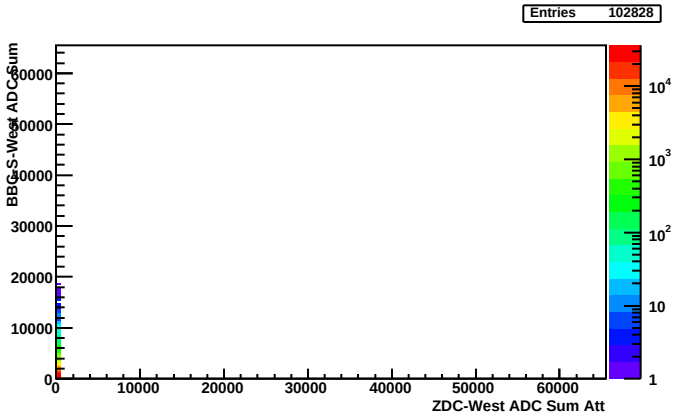
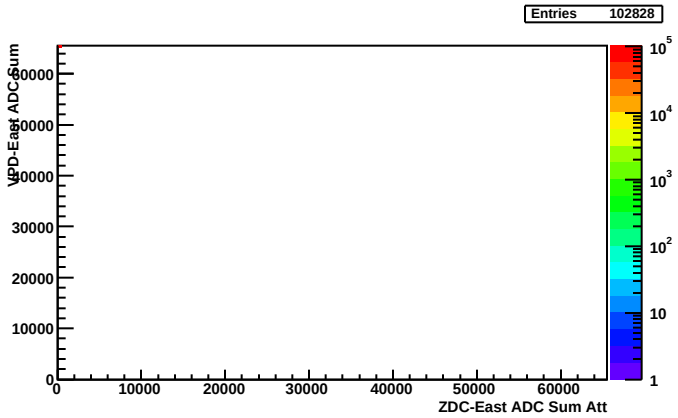
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

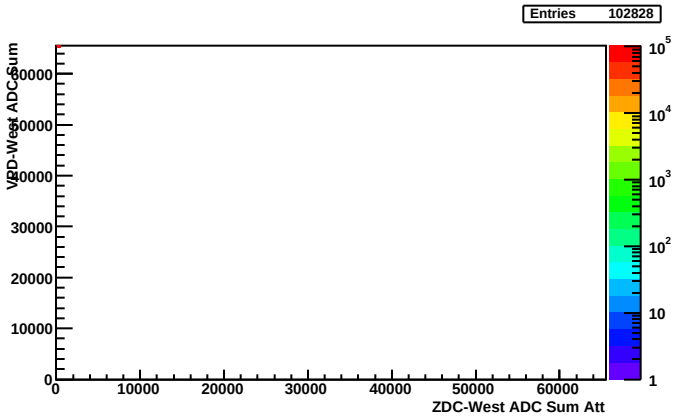

Entries 102828
BBC-S-East ADC Sum
VPD-East ADC Sum

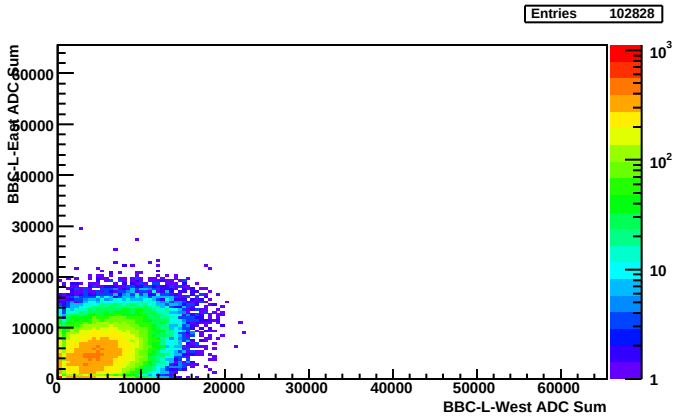

Entries 102828
BBC-S-West ADC Sum
VPD-West ADC Sum

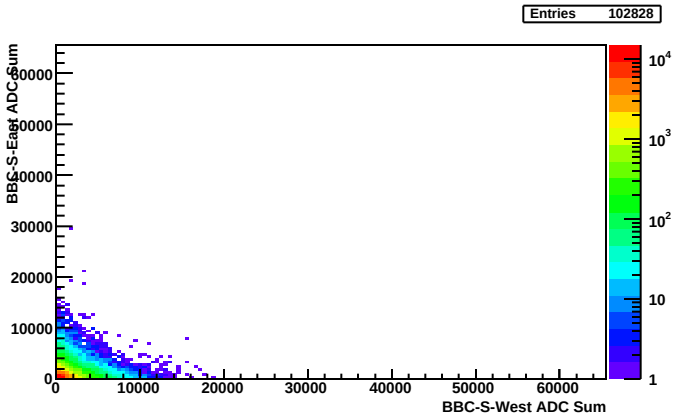

Entries 102828
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

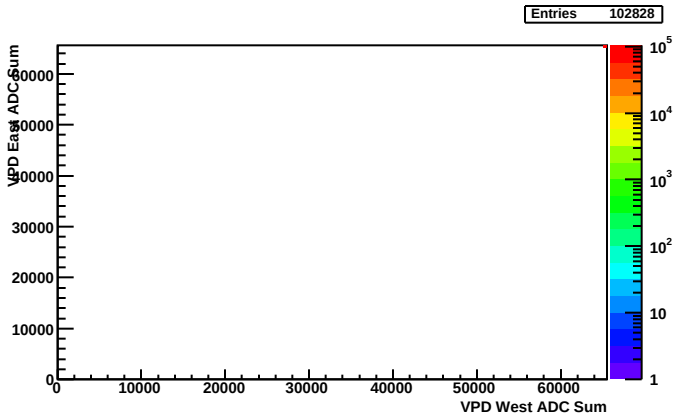

Entries 102828
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

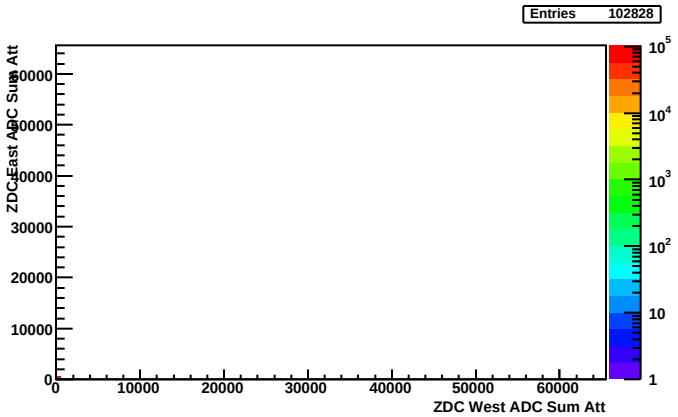

Entries 102828
VPD-East ADC Sum
ZDC-East ADC Sum Att

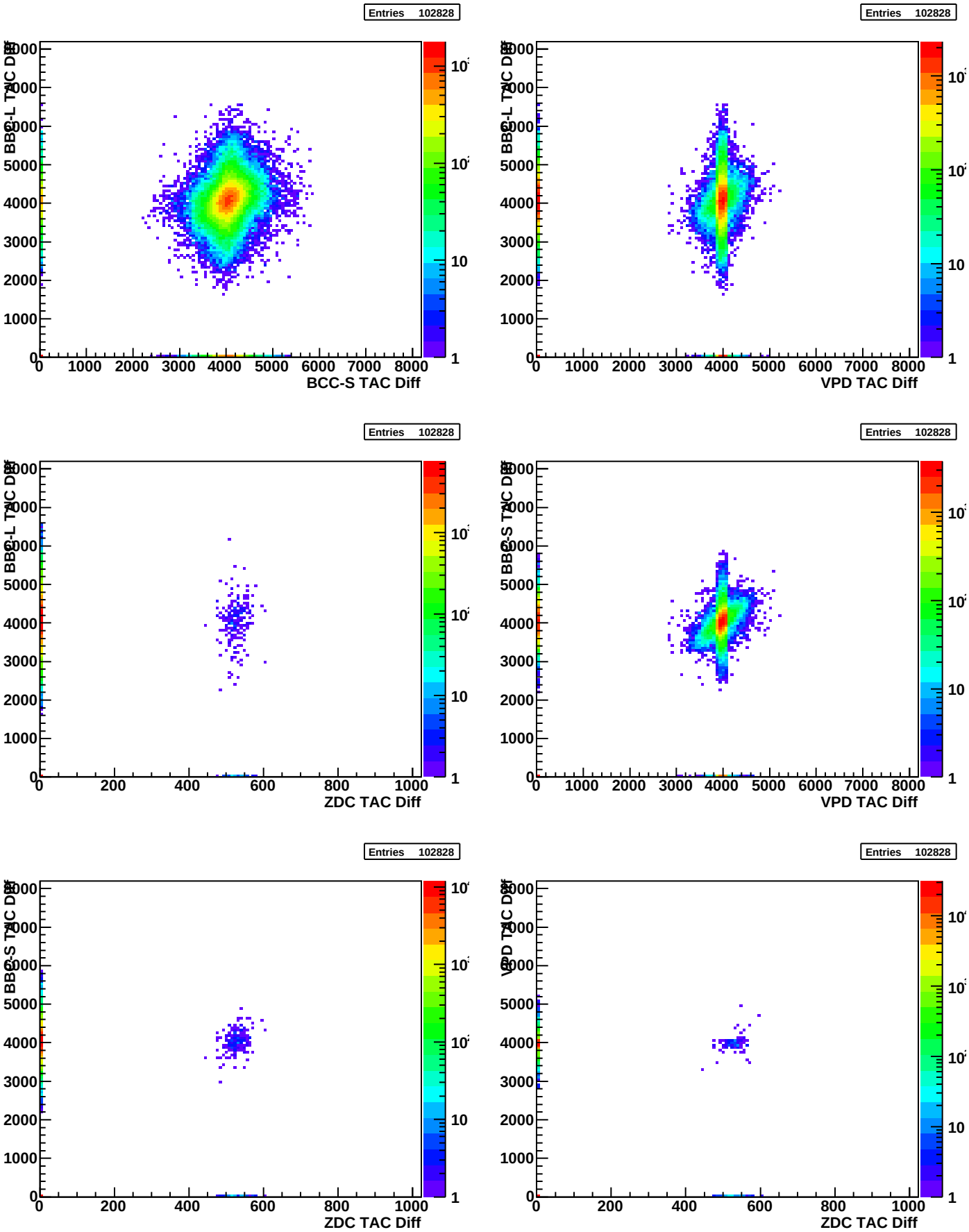

Entries 102828
VPD-West ADC Sum
ZDC-West ADC Sum Att

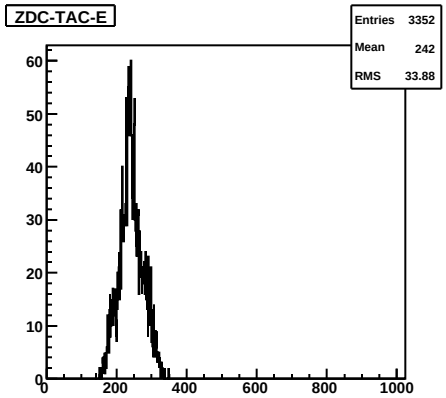

Entries 102828
BBC-L-East ADC Sum
BBC-L-West ADC Sum

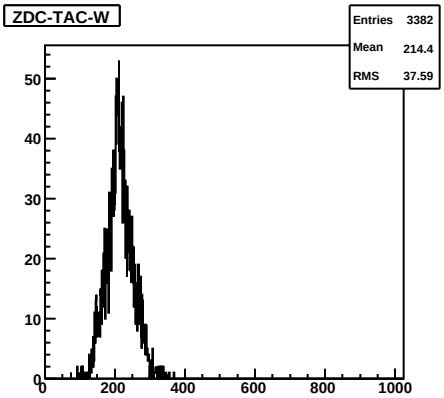

Entries 102828
BBC-S-East ADC Sum
BBC-S-West ADC Sum

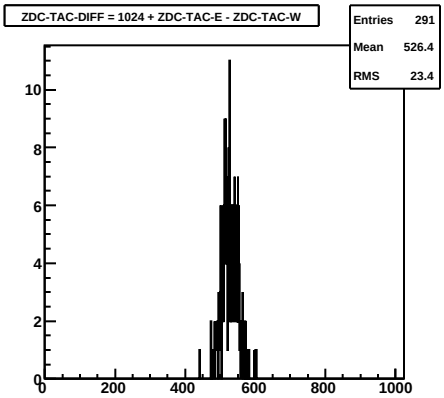

Entries 102828
VPD East ADC Sum
VPD West ADC Sum

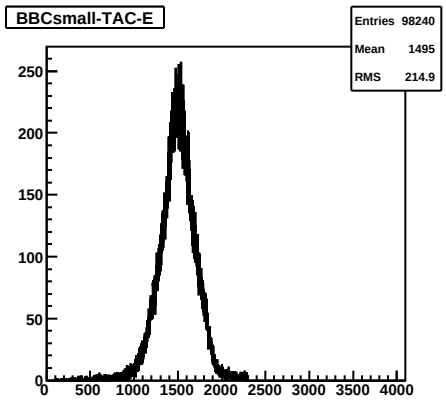

Entries 102828
ZDC East ADC Sum Att
ZDC West ADC Sum Att

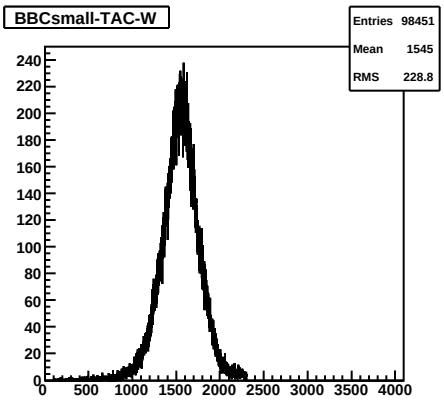

Entries 102828
BBC-L TAC Diff
BCC-S TAC Diff
Entries 102828
BBC-L TAC Diff
VPD TAC Diff
Entries 102828
BBC-L TAC Diff
ZDC TAC Diff
Entries 102828
BBC-S TAC Diff
VPD TAC Diff
Entries 102828
BBC-S TAC Diff
ZDC TAC Diff
Entries 102828
VPD TAC Diff
ZDC TAC Diff

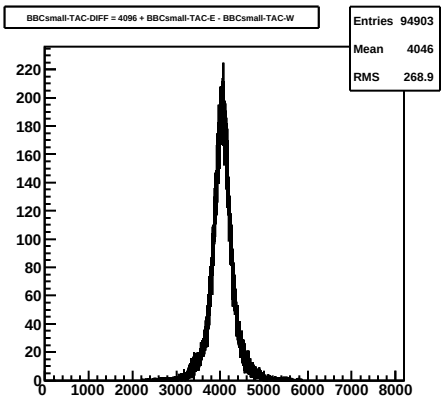

ZDC-TAC-E
Entries 3352
Mean 242
RMS 33.88

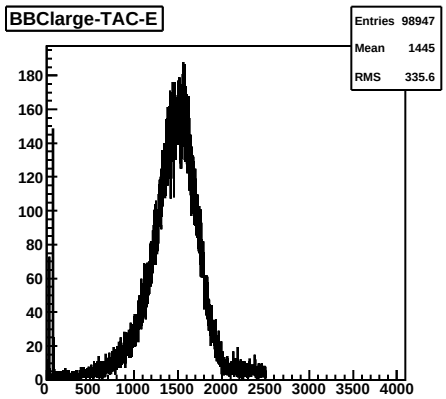

ZDC-TAC-W
Entries 3382
Mean 214.4
RMS 37.59

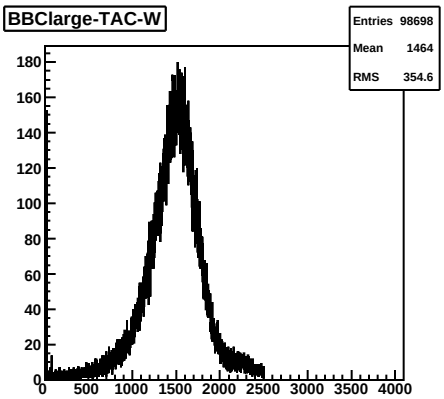

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 291
Mean 526.4
RMS 23.4

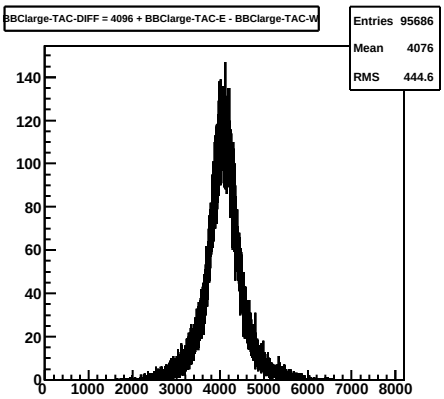

BBCsmall-TAC-E
Entries 98240
Mean 1495
RMS 214.9

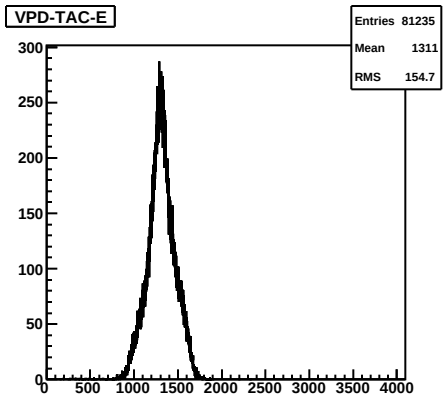

BBCsmall-TAC-W
Entries 98451
Mean 1545
RMS 228.8

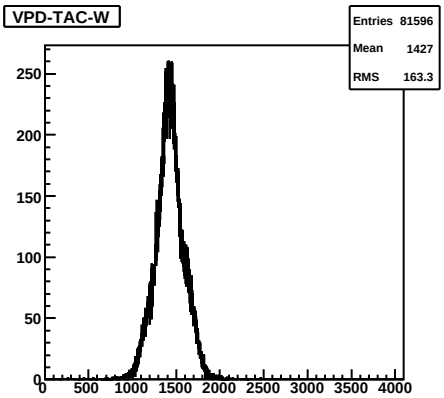

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 94903
Mean 4046
RMS 268.9

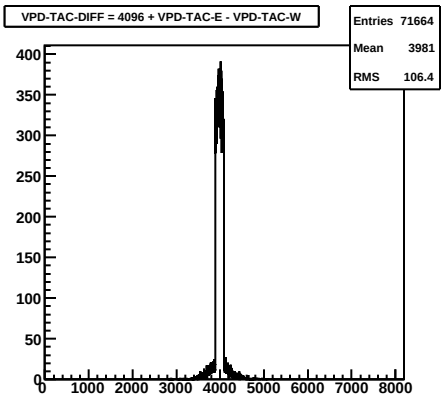

BBClarge-TAC-E
Entries 98947
Mean 1445
RMS 335.6

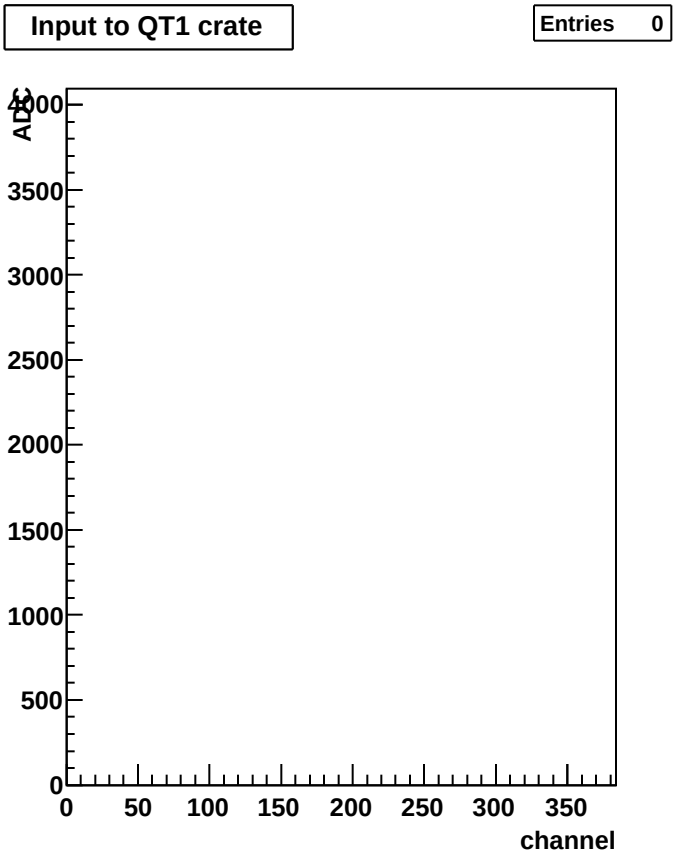

BBClarge-TAC-W
Entries 98698
Mean 1464
RMS 354.6

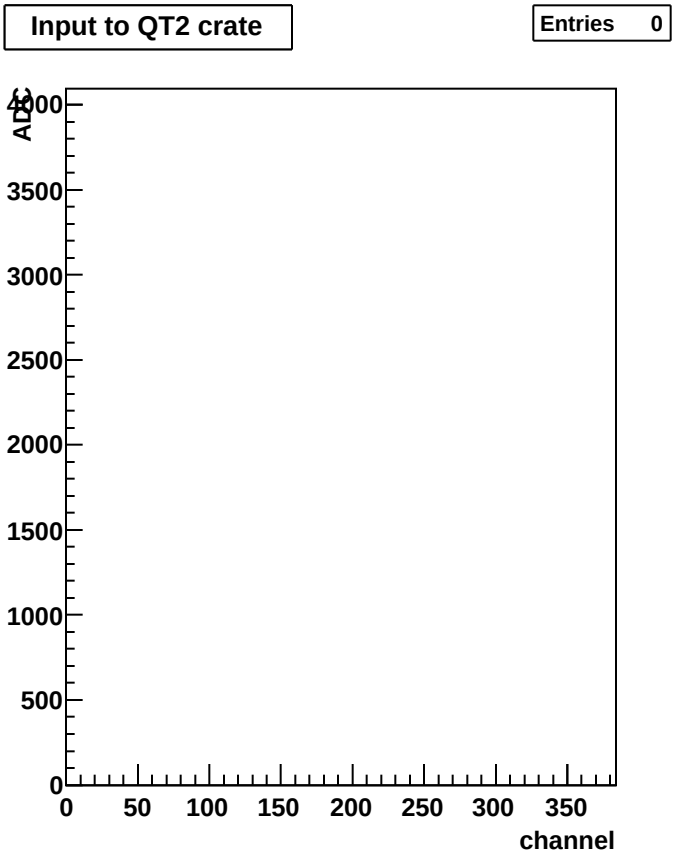

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 95686
Mean 4076
RMS 444.6

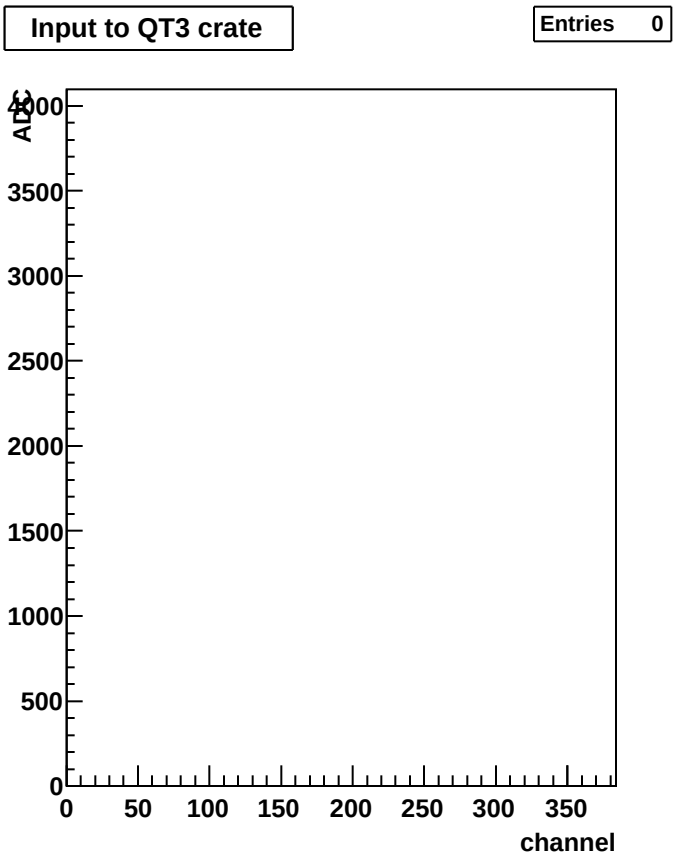

VPD-TAC-E
Entries 81235
Mean 1311
RMS 154.7

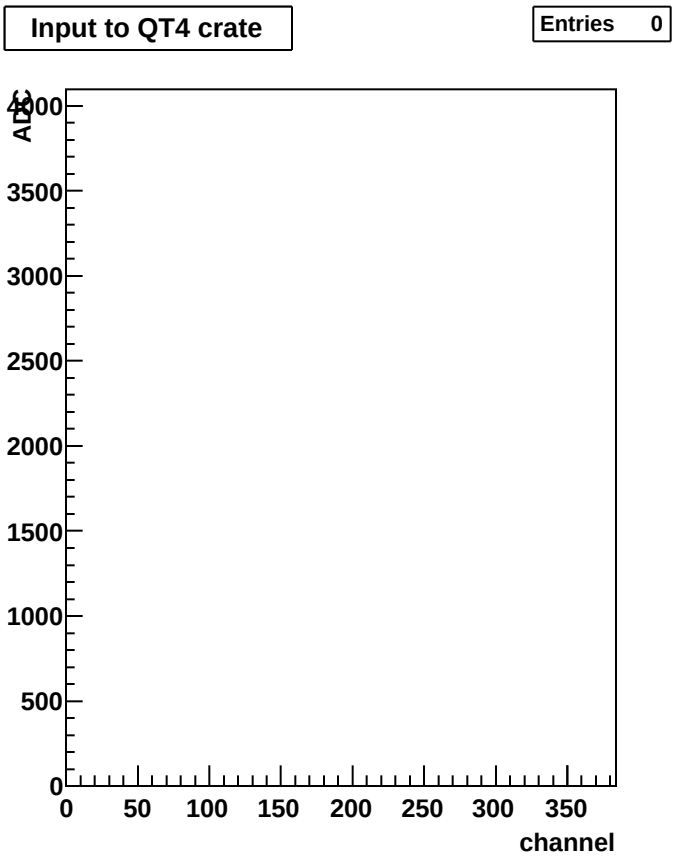

VPD-TAC-W
Entries 81596
Mean 1427
RMS 163.3

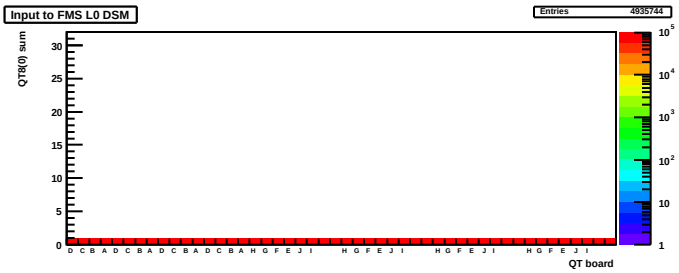

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 71664
Mean 3981
RMS 106.4

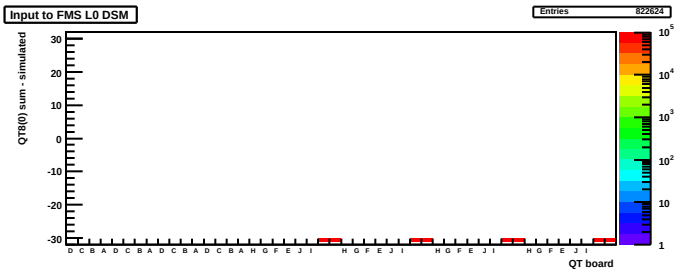

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

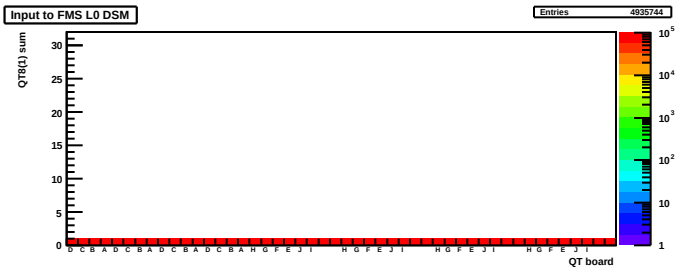

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

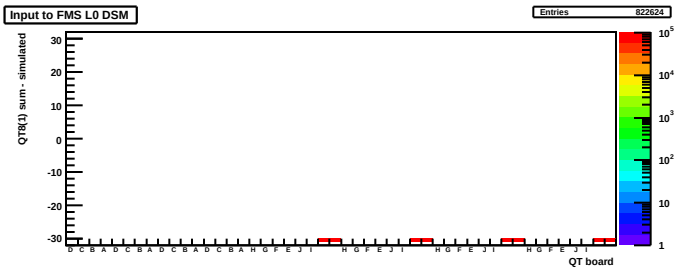

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

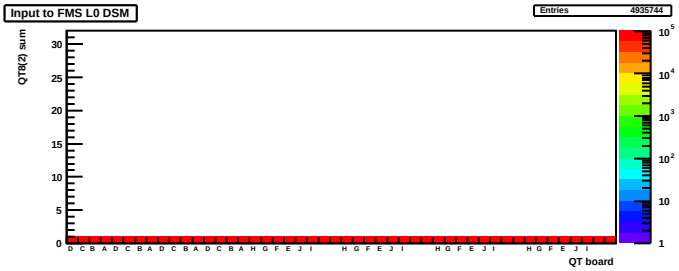

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

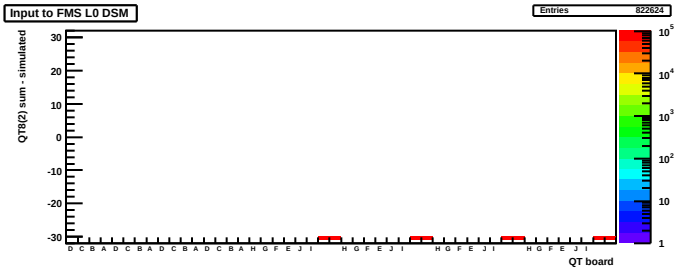

Input to FMS L0 DSM
Entries 4935744
QT8(0) sum
QT board

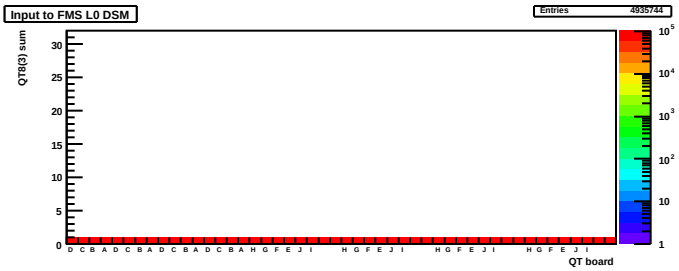

Input to FMS L0 DSM
Entries 822624
QT8(0) sum - simulated
QT board

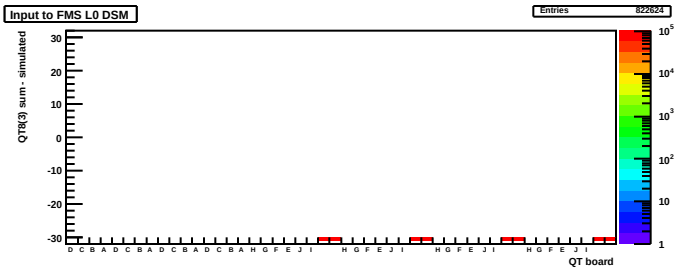

Input to FMS L0 DSM
Entries 4935744
QT8(1) sum
QT board

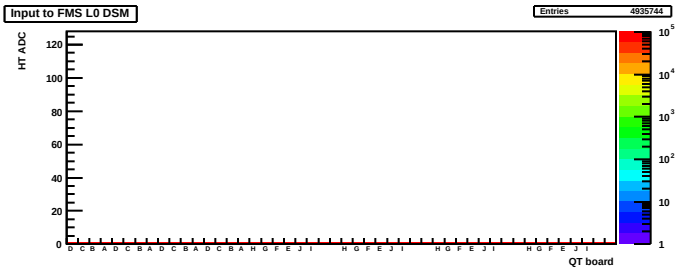

Input to FMS L0 DSM
Entries 822624
QT8(1) sum - simulated
QT board

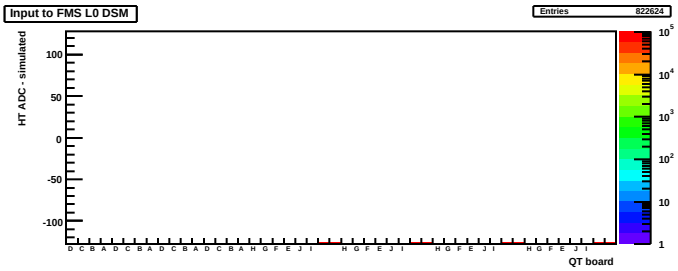

Input to FMS L0 DSM
Entries 4935744
QT8(2) sum
QT board

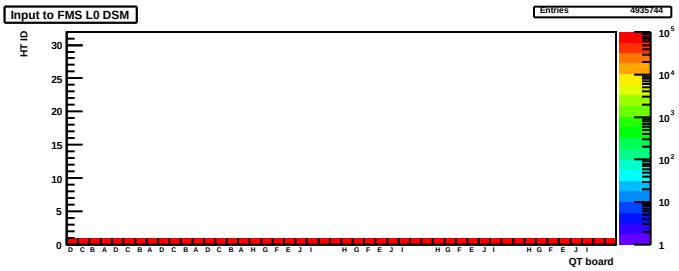

Input to FMS L0 DSM
Entries 822624
QT8(2) sum - simulated
QT board

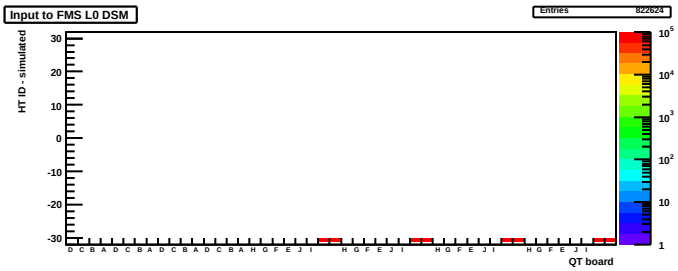

Input to FMS L0 DSM
Entries 4935744
QT8(3) sum
QT board

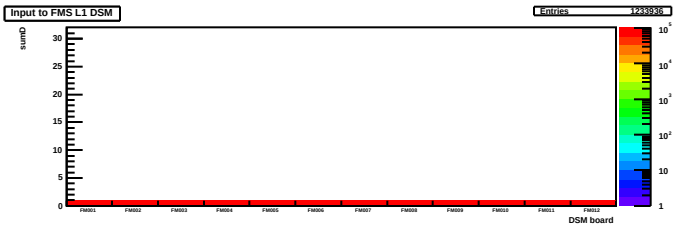

Input to FMS L0 DSM
Entries 822624
QT8(3) sum - simulated
QT board

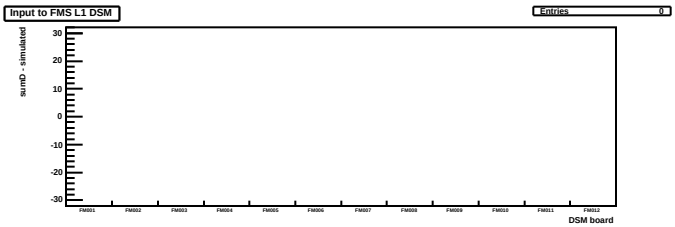

Input to FMS L0 DSM
Entries 4935744
HT ADC
QT board

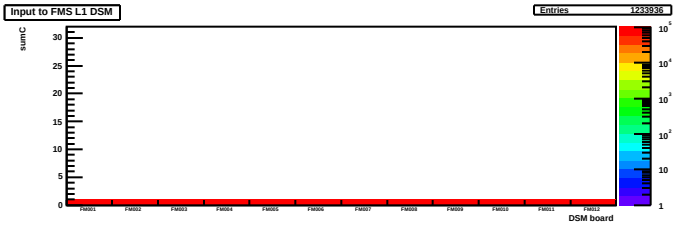

Input to FMS L0 DSM
Entries 822624
HT ADC - simulated
QT board

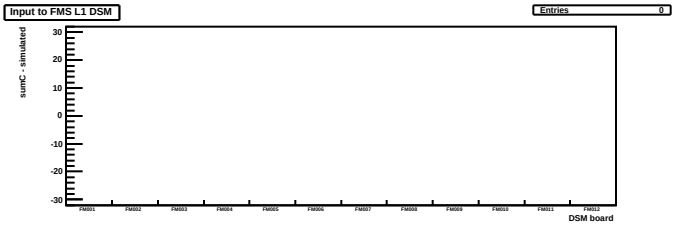

Input to FMS L0 DSM
Entries 4935744
HT ID
QT board

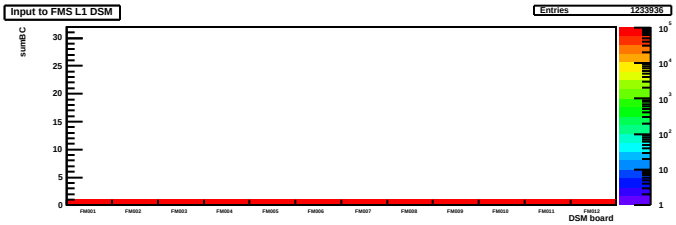

Input to FMS L0 DSM
Entries 822624
HT ID - simulated
QT board

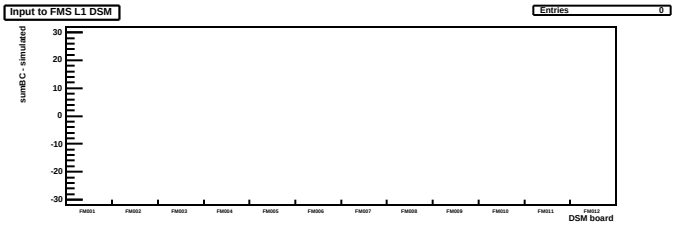

Input to FMS L1 DSM
Entries 1233936
sumD
DSM board

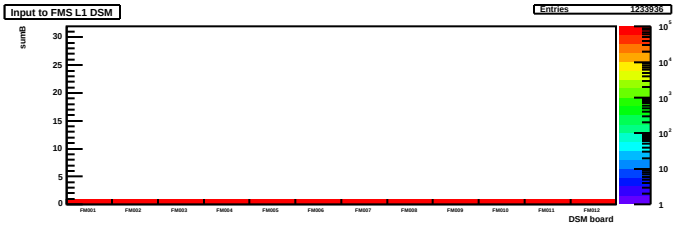

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

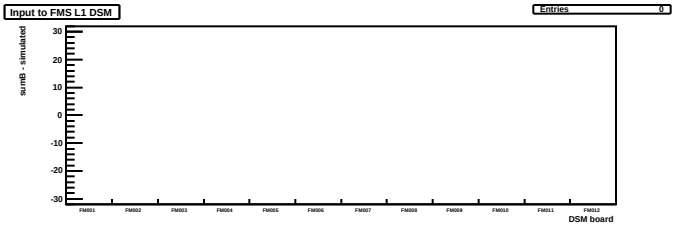

Input to FMS L1 DSM
Entries 1233936
sumC
DSM board

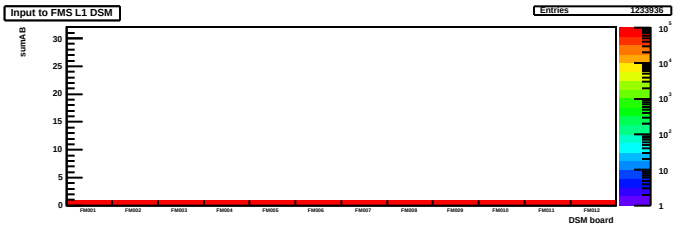

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

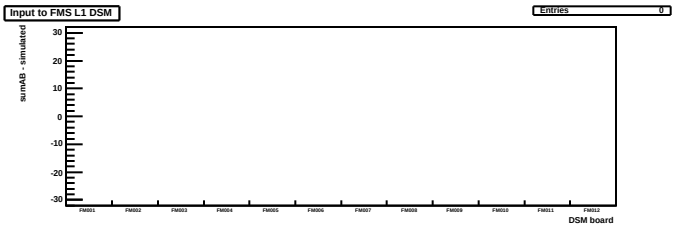

Input to FMS L1 DSM
Entries 1233936
sumBC
DSM board

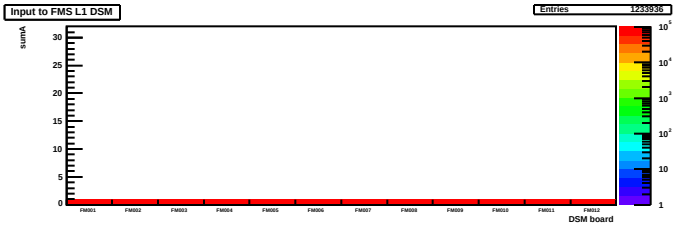

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

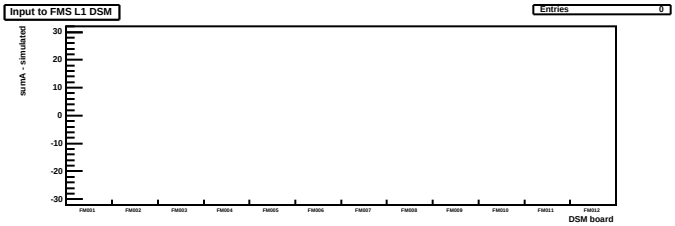

Input to FMS L1 DSM
Entries 1233936
sumB
DSM board

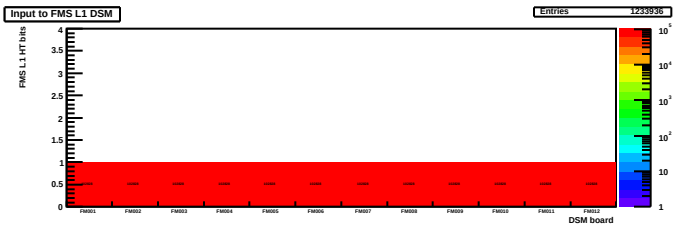

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

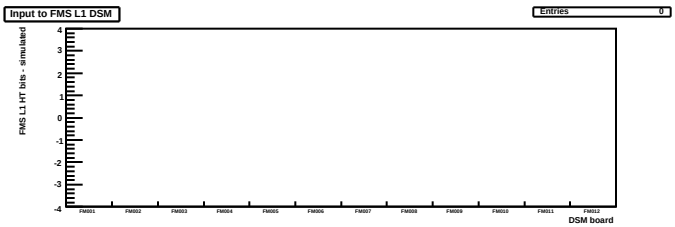

Input to FMS L1 DSM
Entries 1233936
sumAB
DSM board

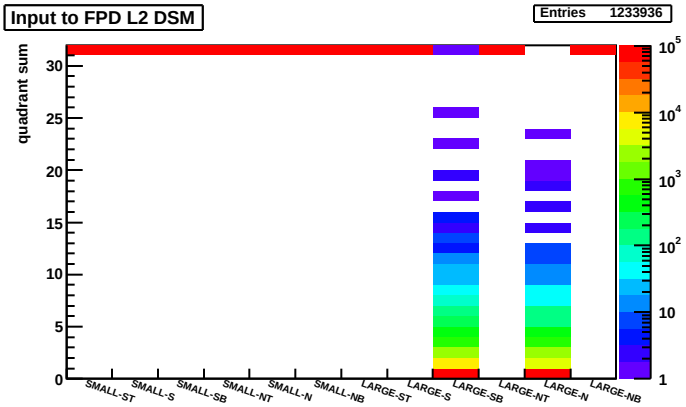

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

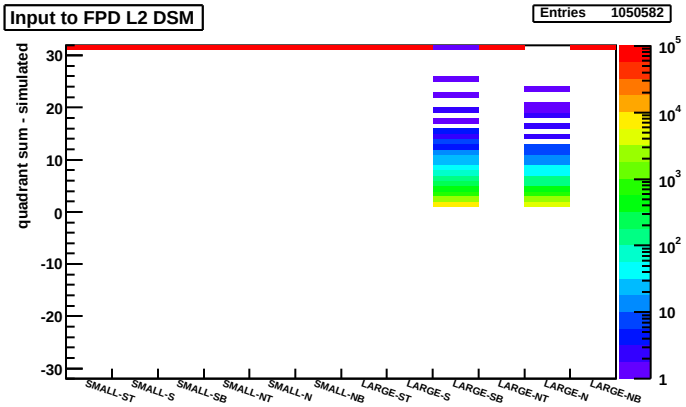

Input to FMS L1 DSM
Entries 1233936
sumA
DSM board

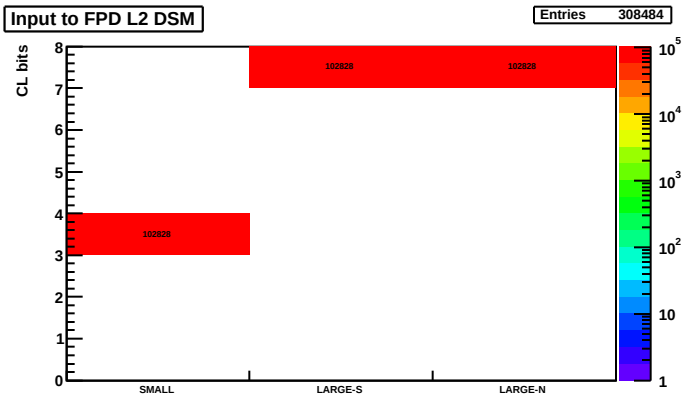

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

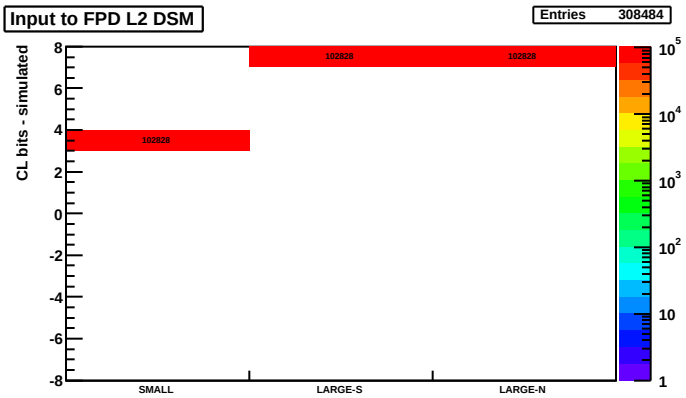

Input to FMS L1 DSM
Entries 1233936
FMS L1 HT bits
DSM board

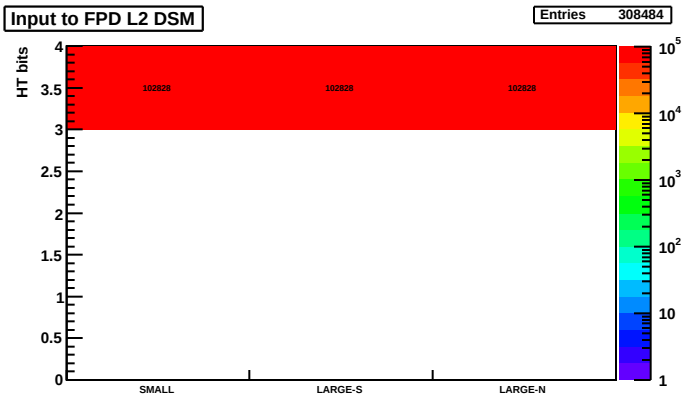

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

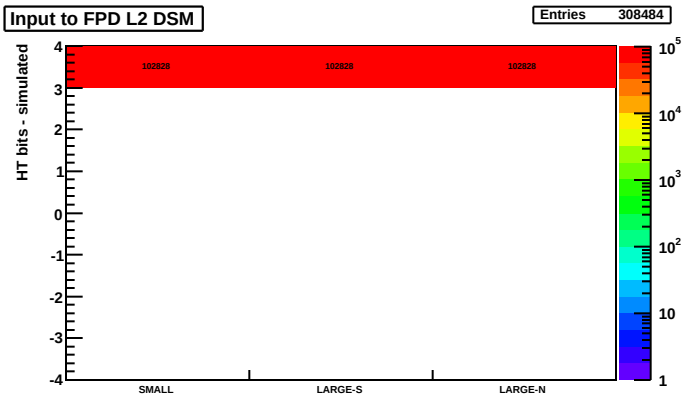

Input to FPD L2 DSM
Entries 1233936
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

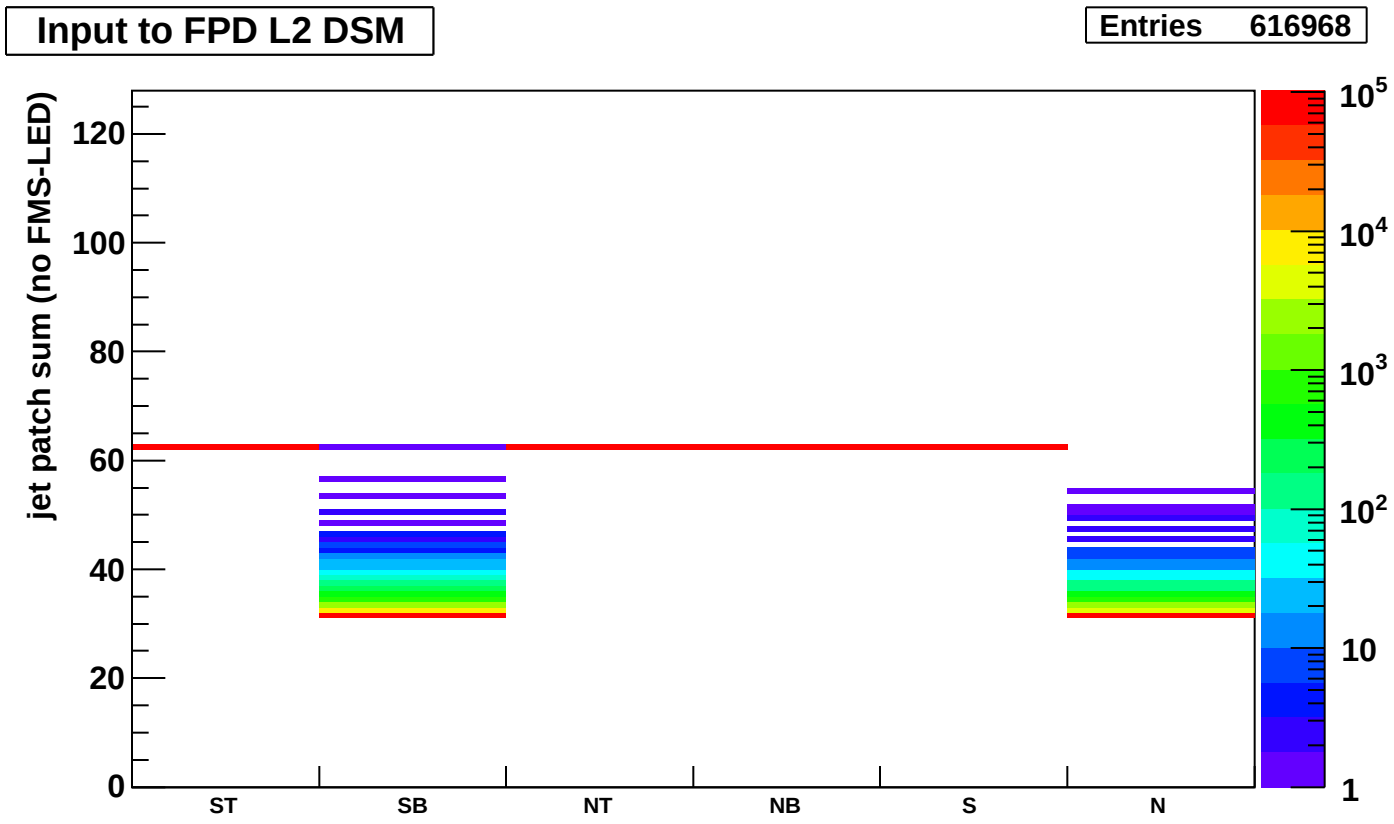

Input to FPD L2 DSM
Entries 1050582
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

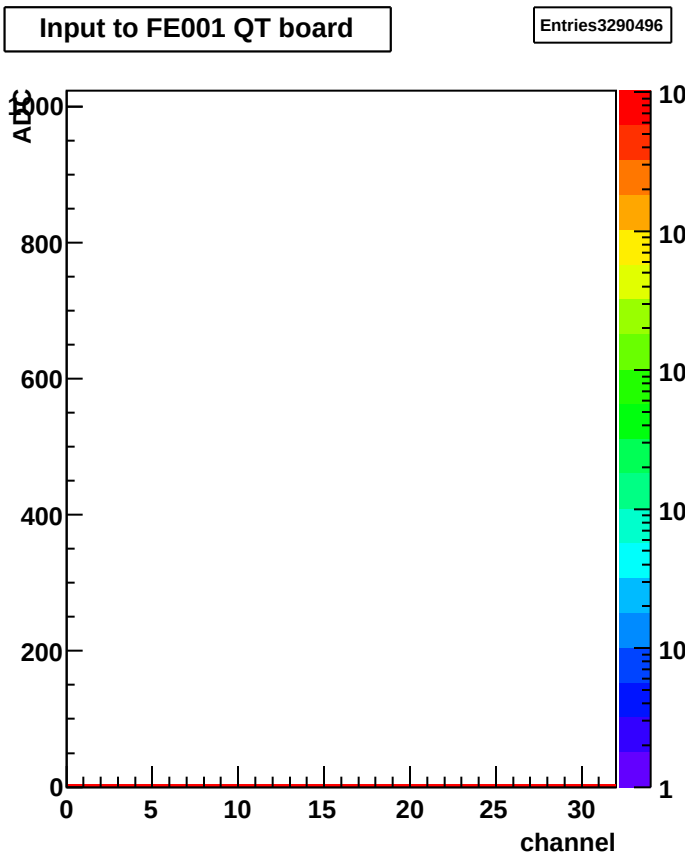

Input to FPD L2 DSM
Entries 308484
CL bits
102828
102828
102828
SMALL
LARGE-S
LARGE-N

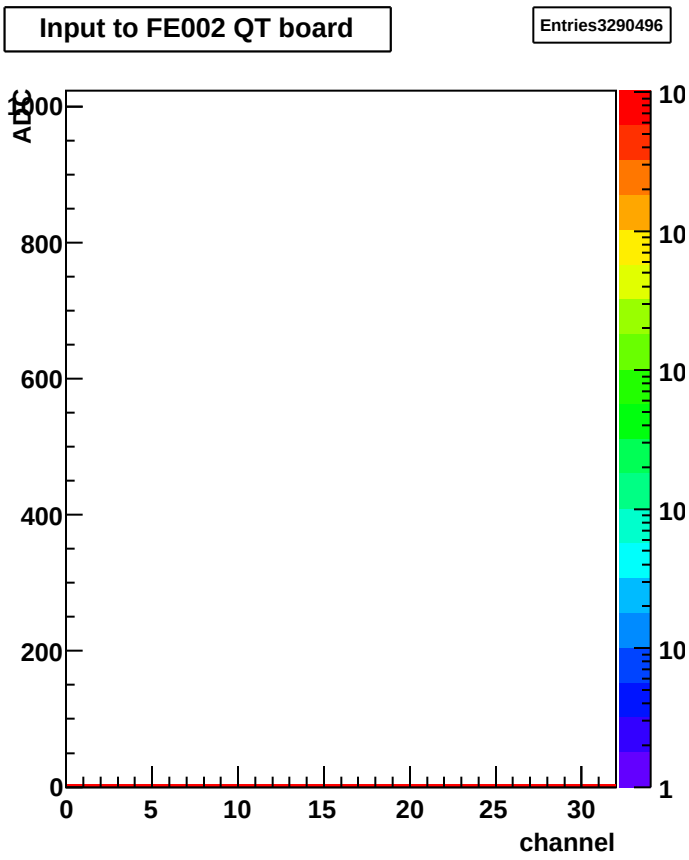

Input to FPD L2 DSM
Entries 308484
CL bits - simulated
102828
102828
102828
SMALL
LARGE-S
LARGE-N

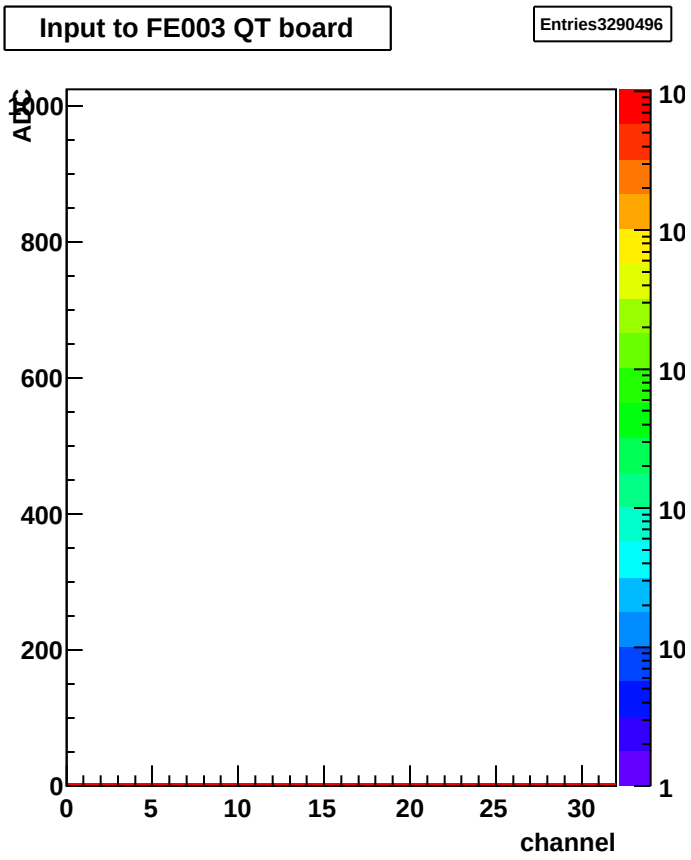

Input to FPD L2 DSM
Entries 308484
HT bits
102828
102828
102828
SMALL
LARGE-S
LARGE-N

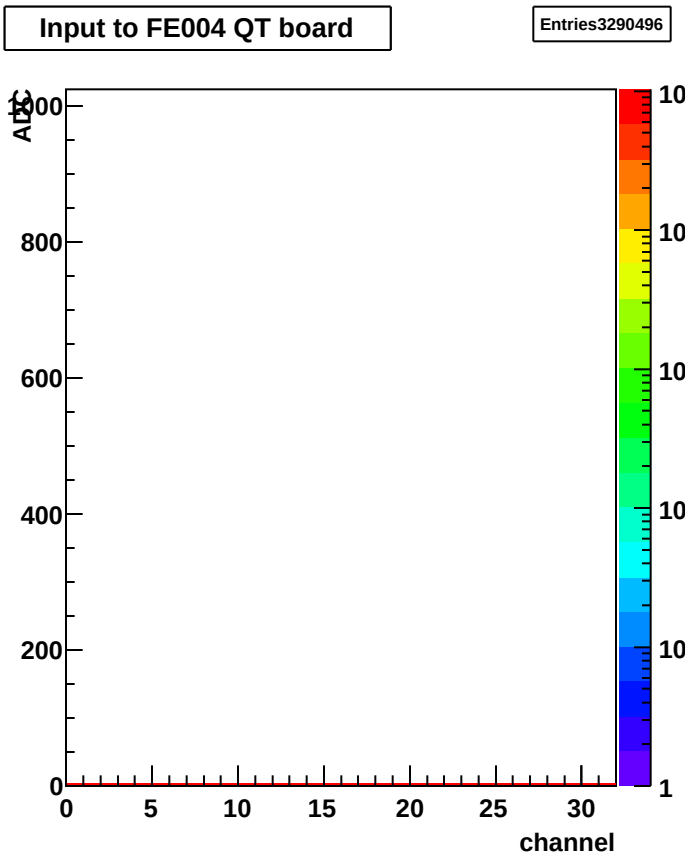

Input to FPD L2 DSM
Entries 308484
HT bits - simulated
102828
102828
102828
SMALL
LARGE-S
LARGE-N

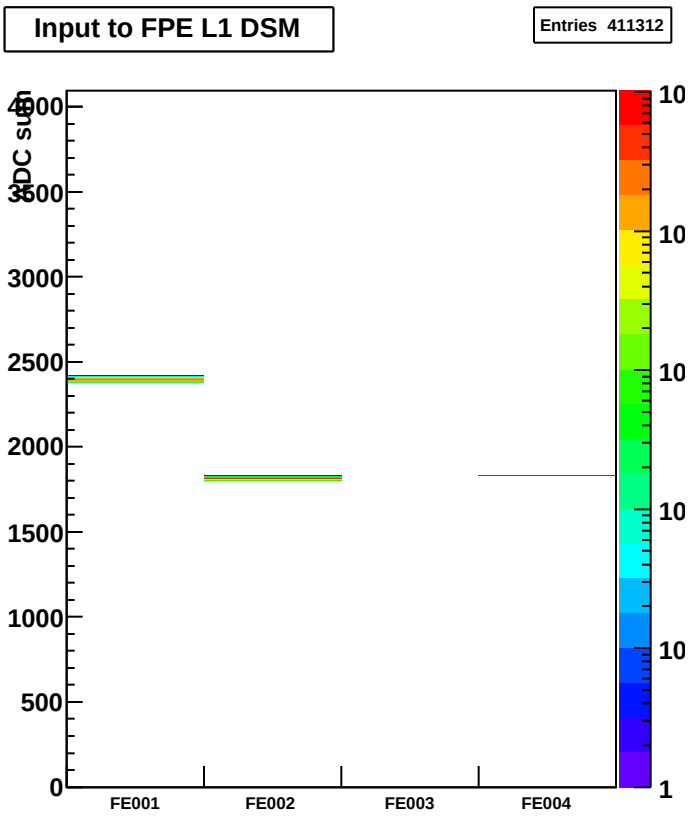

Input to FPD L2 DSM
Entries 616968
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

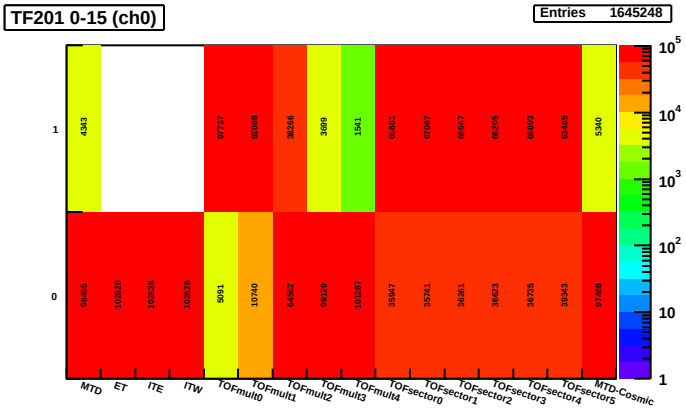

Input to FE001 QT board
Entries3290496
ADC
channel

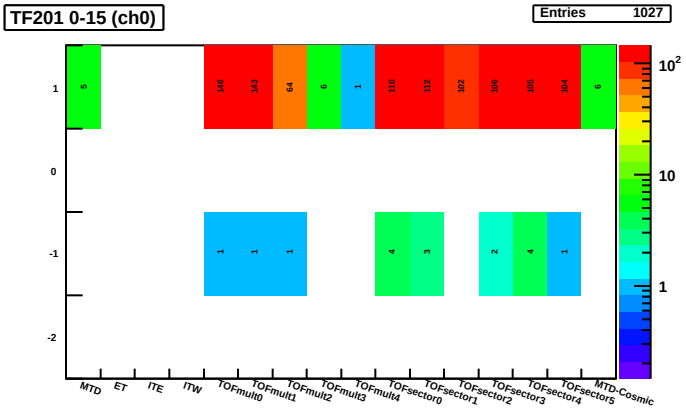

Input to FE002 QT board
Entries3290496
ADC
channel

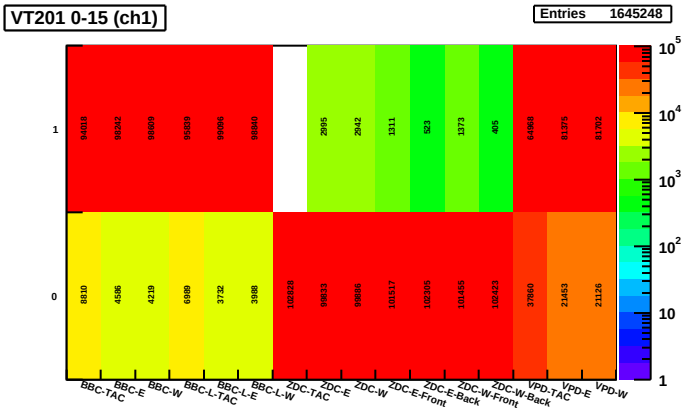

Input to FE003 QT board
Entries3290496
ADC
channel

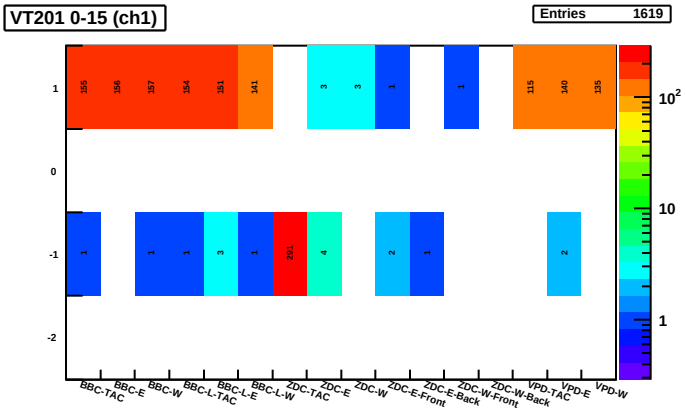

Input to FE004 QT board
Entries3290496
ADC
channel

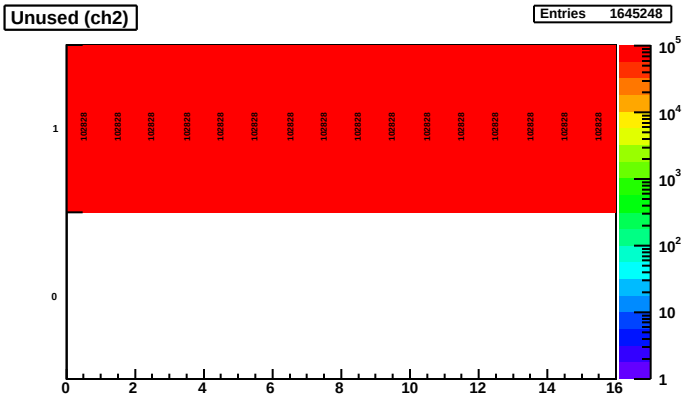

Input to FPE L1 DSM
Entries 411312
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

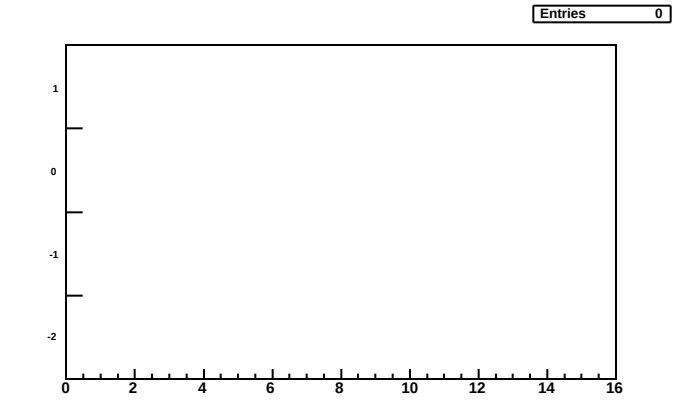

TF201 0-15 (ch0)
Entries 1645248
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

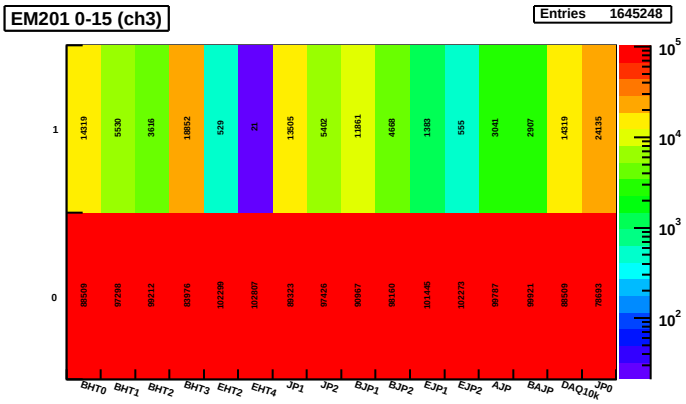

TF201 0-15 (ch0)
Entries 1027
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

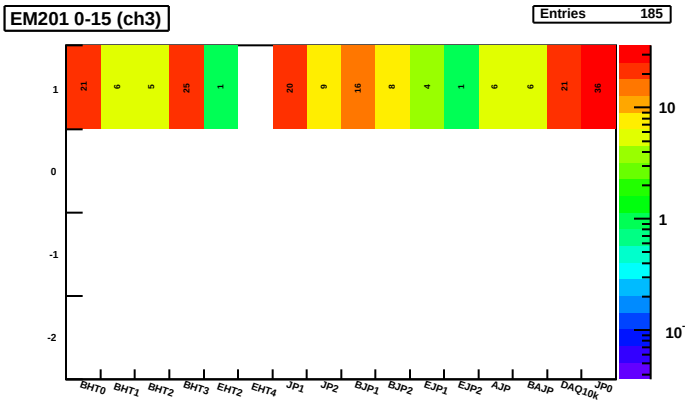

VT201 0-15 (ch1)
Entries 1645248
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

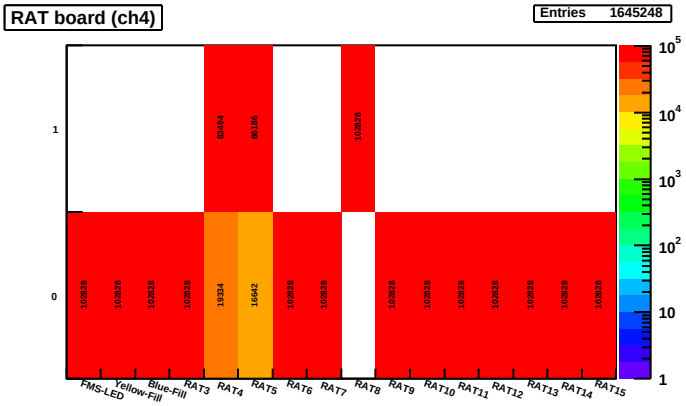

VT201 0-15 (ch1)
Entries 1619
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

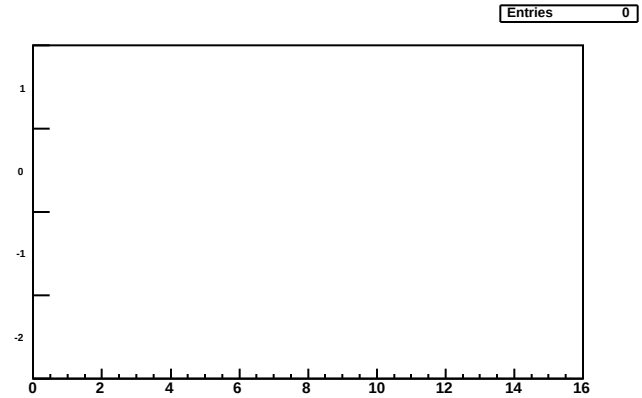

Unused (ch2)
Entries 1645248

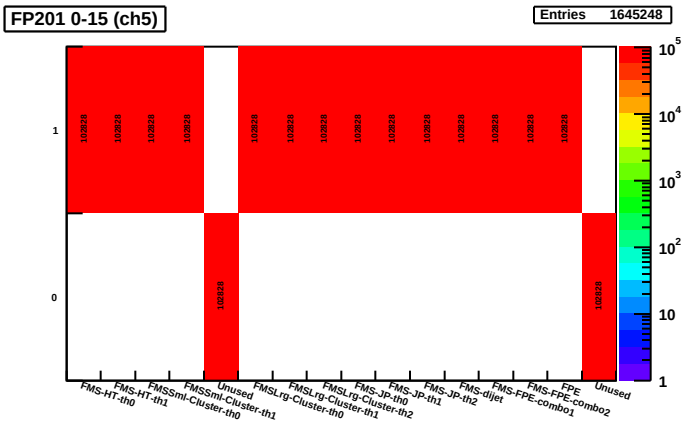

Entries 0

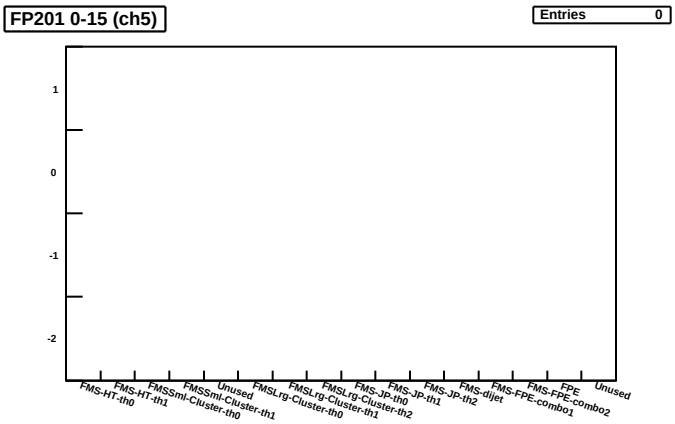

EM201 0-15 (ch3)
Entries 1645248
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

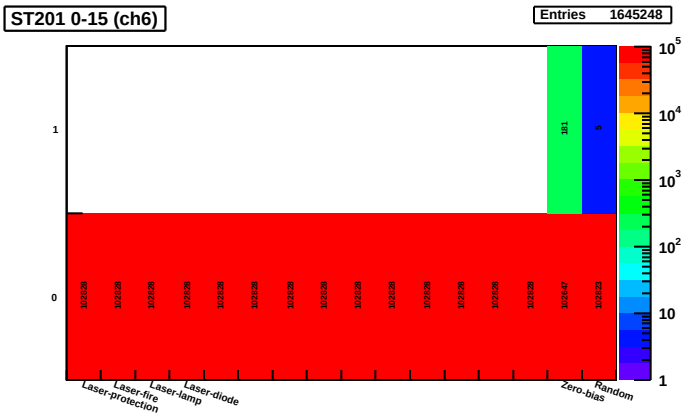

EM201 0-15 (ch3)
Entries 185
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

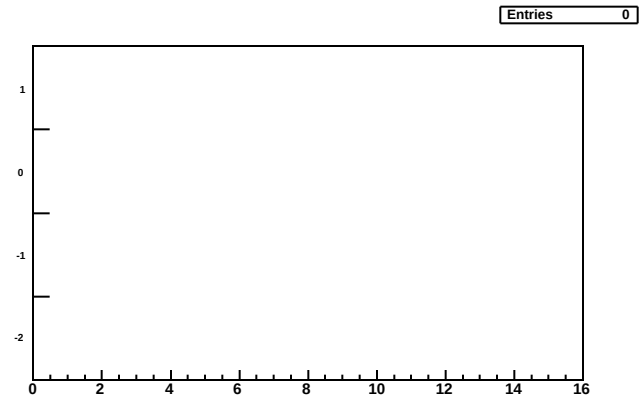

RAT board (ch4)
Entries 1645248
FMS-LED
Yellow-Fill
Blue-Fill
RAT3
RAT4
RAT5
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15

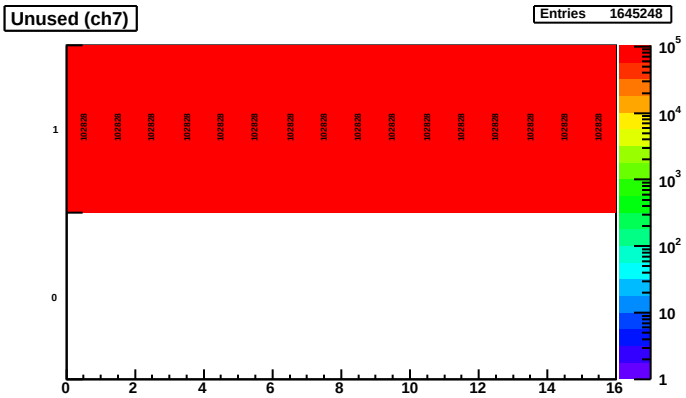

Entries 0

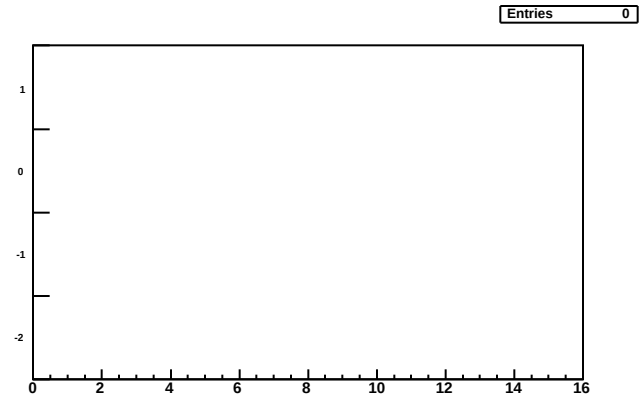

FP201 0-15 (ch5)
Entries 1645248
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMSLrg-Cluster-th2
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-diJet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused


FP201 0-15 (ch5)
Entries 0


ST201 0-15 (ch6)
Entries 1645248
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random


Entries 0


Unused (ch7)
Entries 1645248


Entries 0