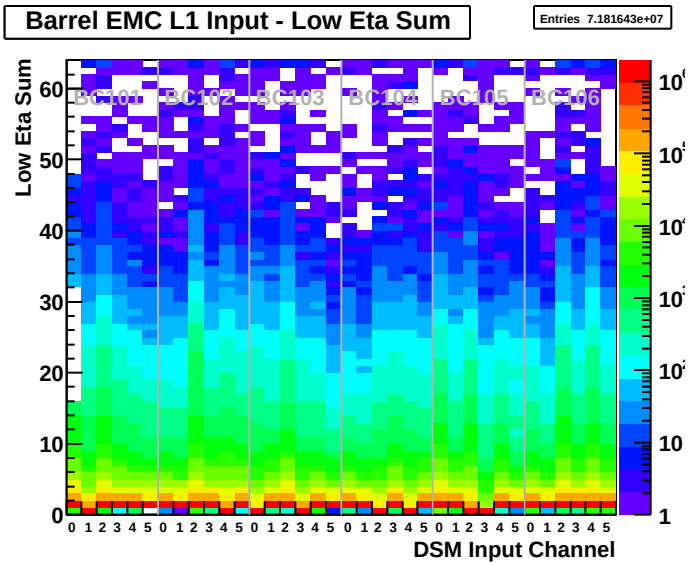
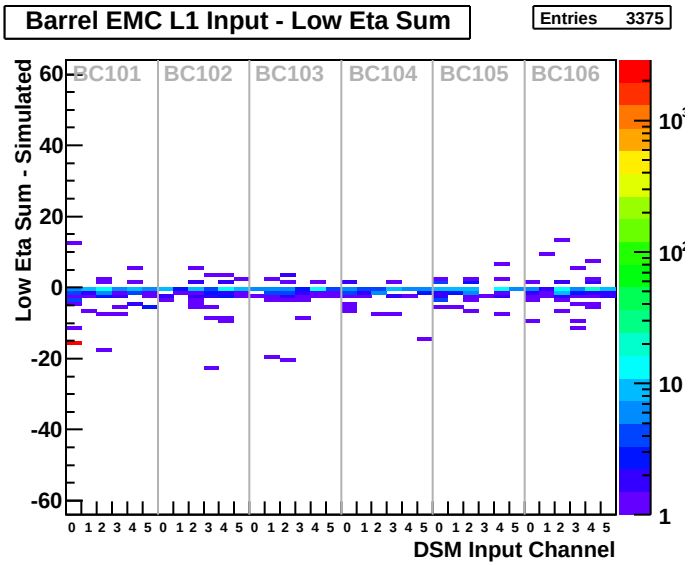
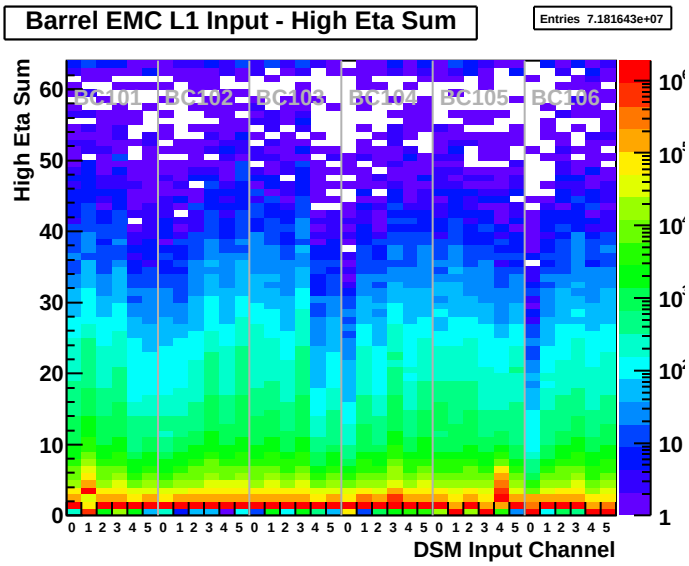
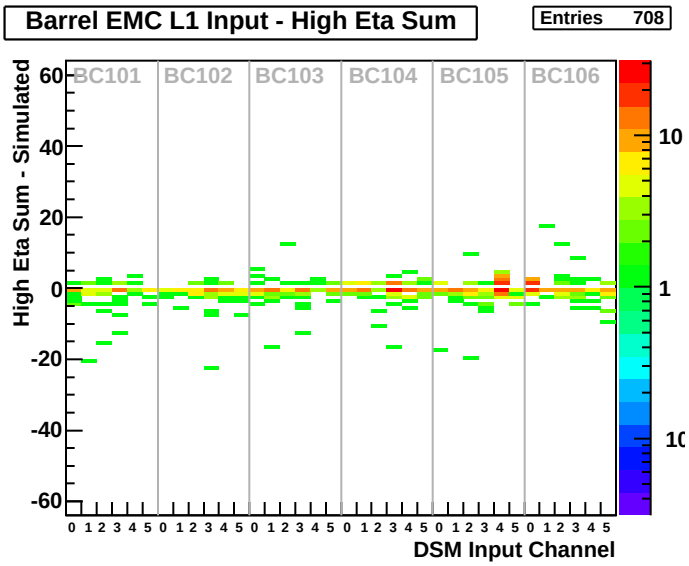
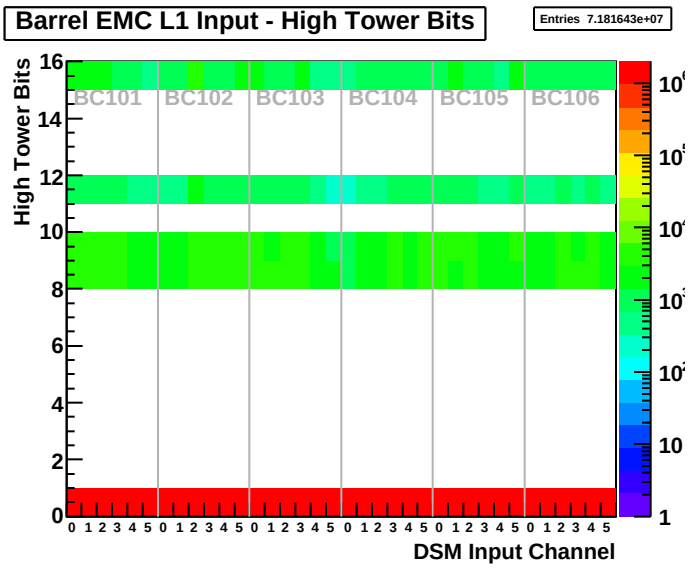
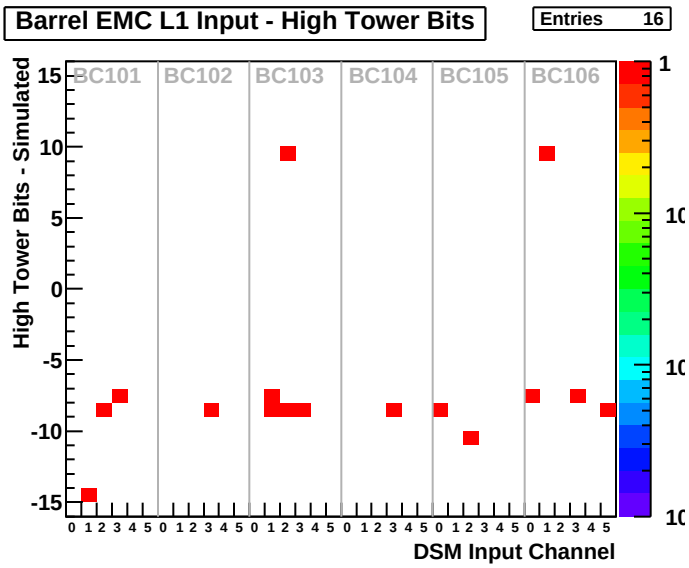

Barrel EMC L1 Input - Low Eta Sum
Entries 7.181643e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

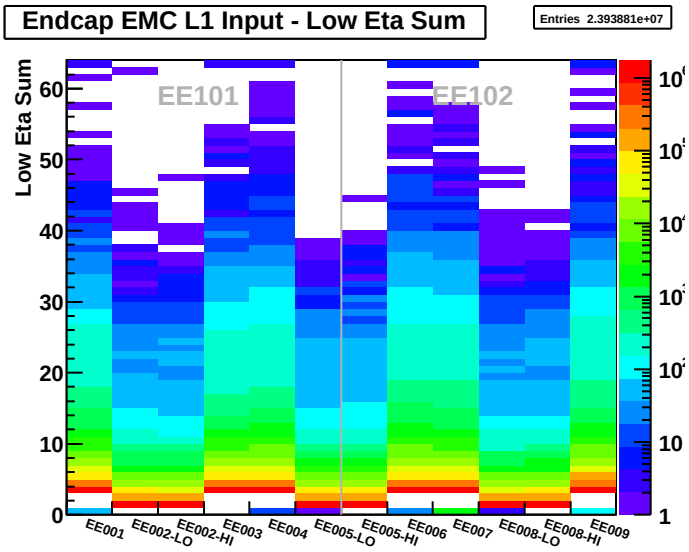

Barrel EMC L1 Input - Low Eta Sum
Entries 3375
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

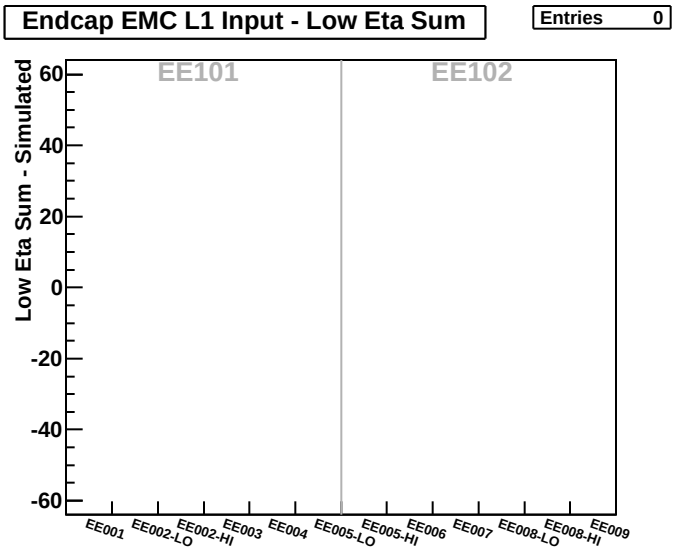

Barrel EMC L1 Input - High Eta Sum
Entries 7.181643e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

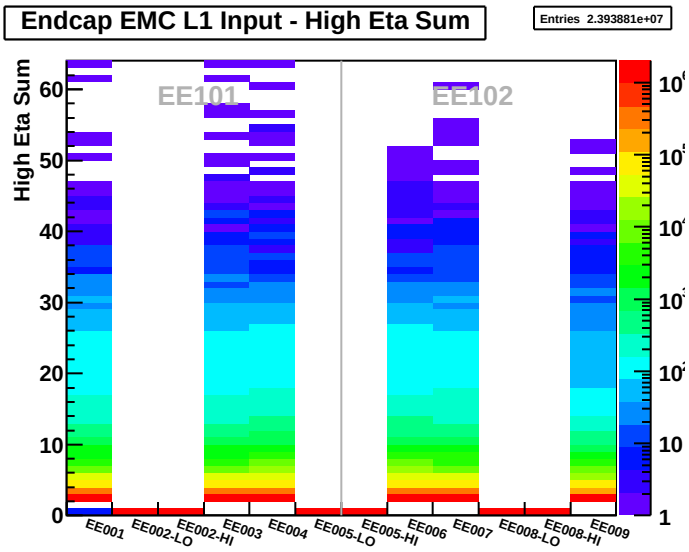

Barrel EMC L1 Input - High Eta Sum
Entries 708
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

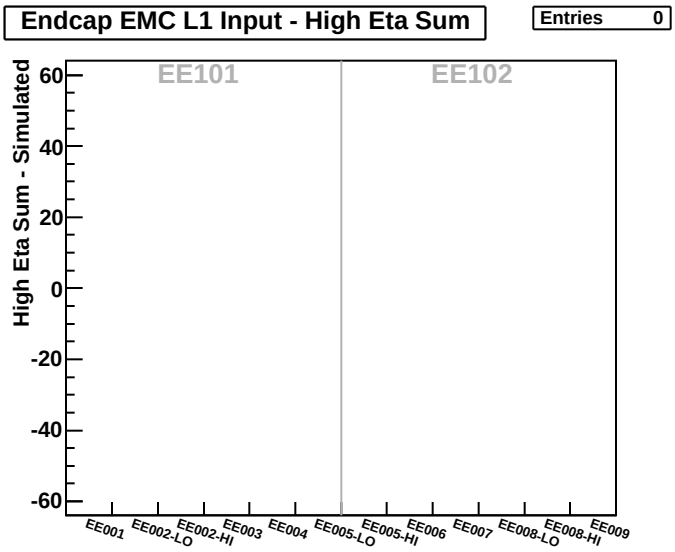

Barrel EMC L1 Input - High Tower Bits
Entries 7.181643e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

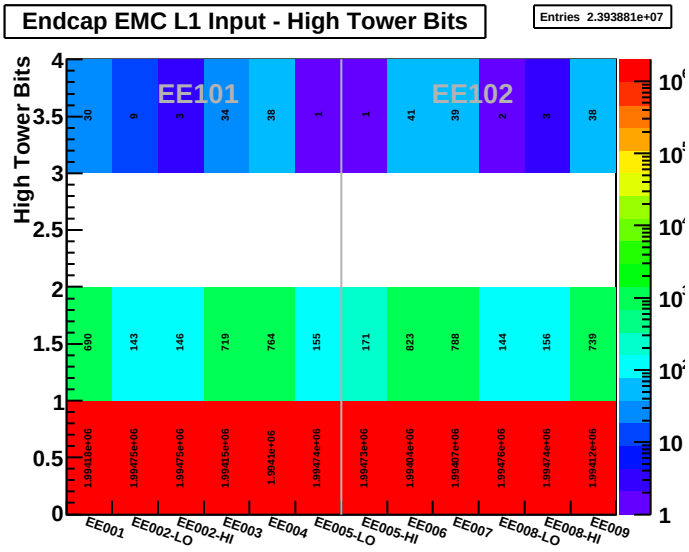

Barrel EMC L1 Input - High Tower Bits
Entries 16
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

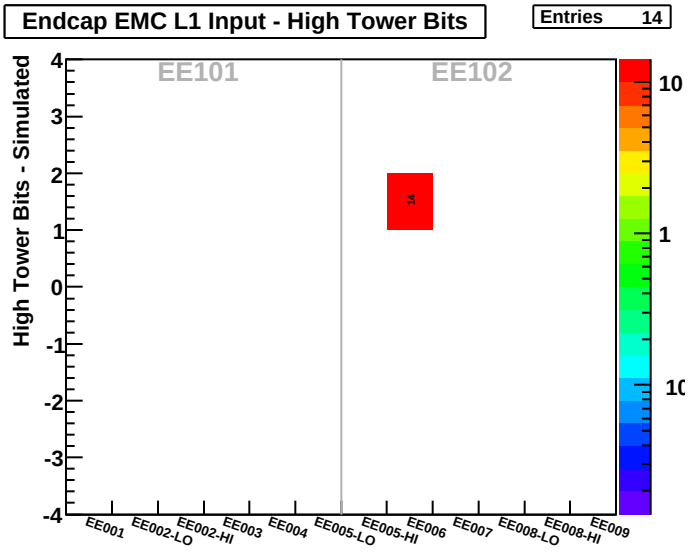

Endcap EMC L1 Input - Low Eta Sum
Entries 2.393881e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

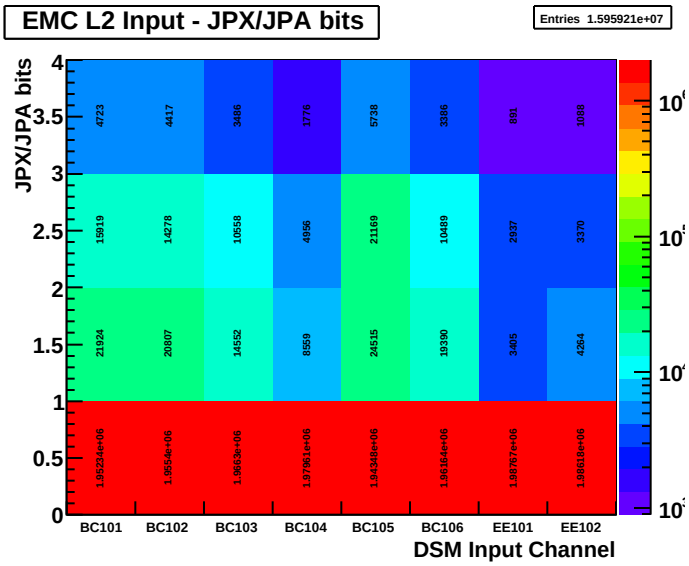

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

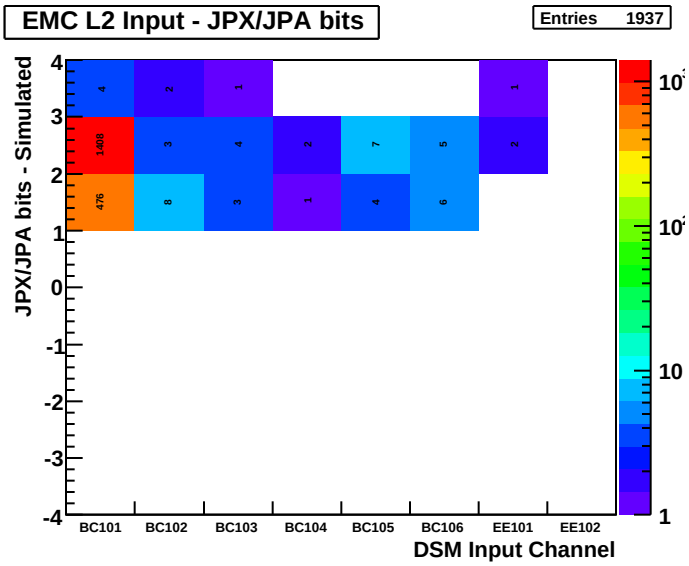

Endcap EMC L1 Input - High Eta Sum
Entries 2.393881e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

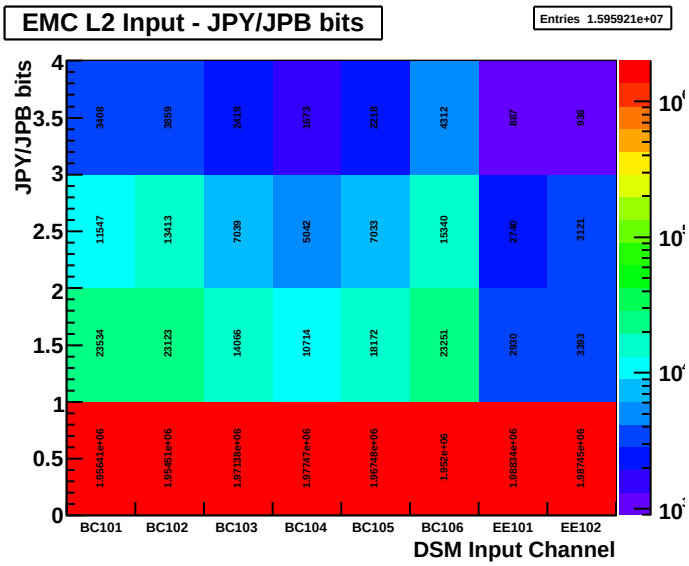

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

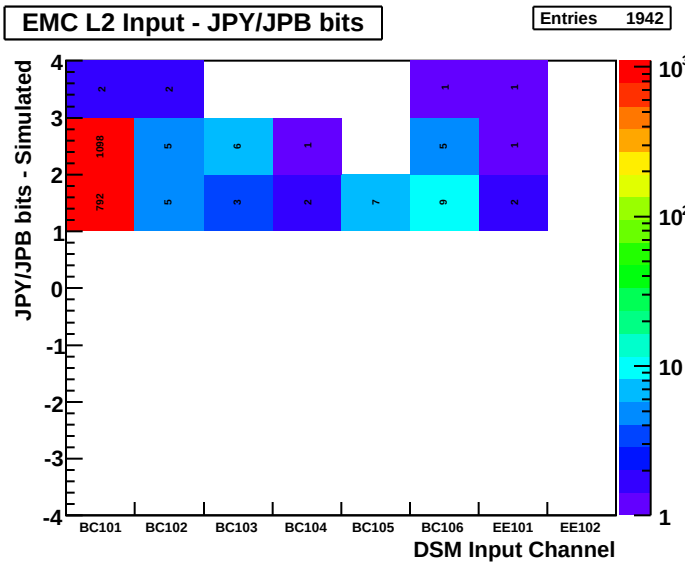

Endcap EMC L1 Input - High Tower Bits
Entries 2.393881e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

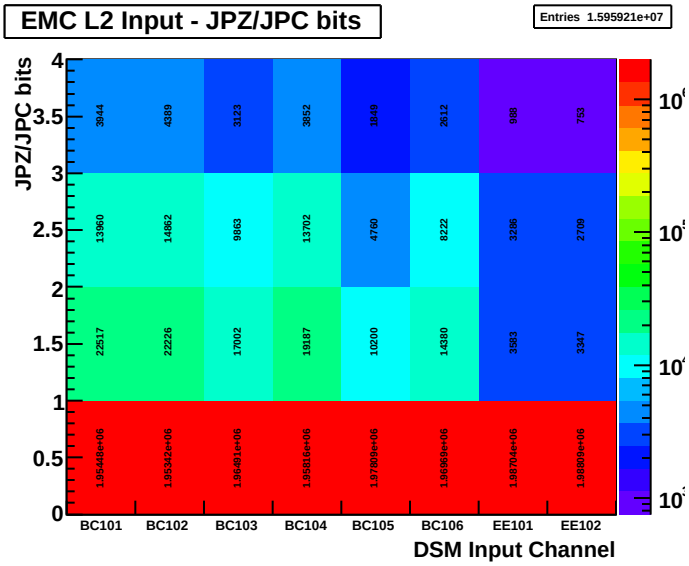

Endcap EMC L1 Input - High Tower Bits
Entries 14
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

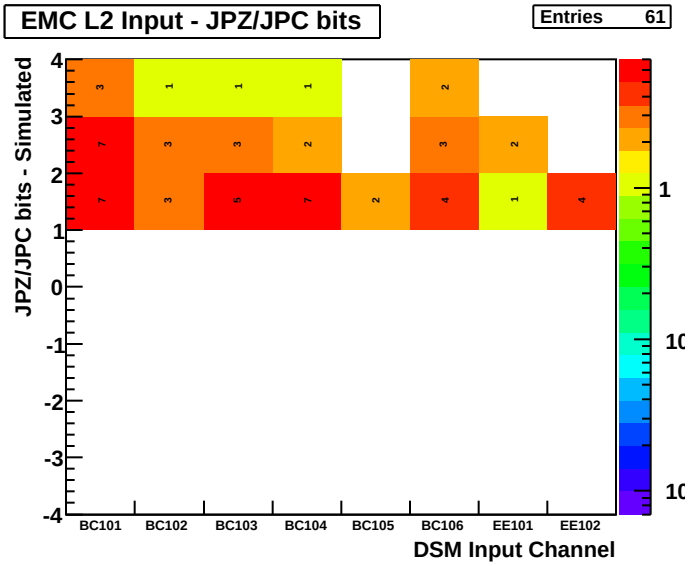

EMC L2 Input - JPX/JPA bits
Entries 1.595921e+07
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

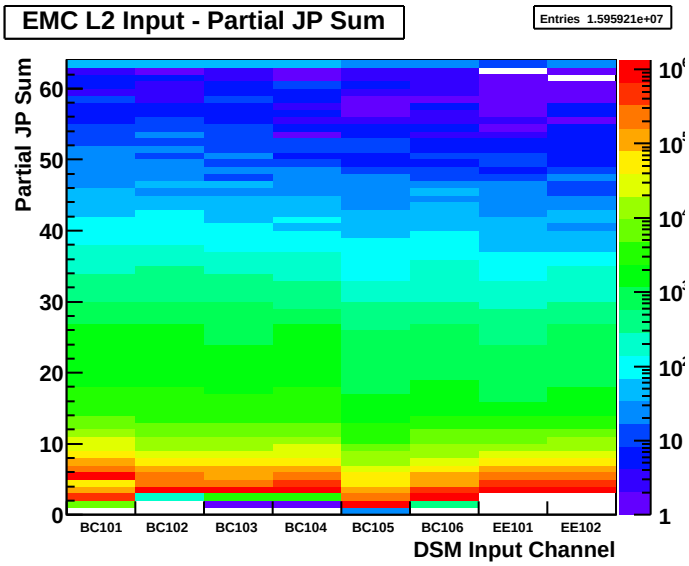

EMC L2 Input - JPX/JPA bits
Entries 1937
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

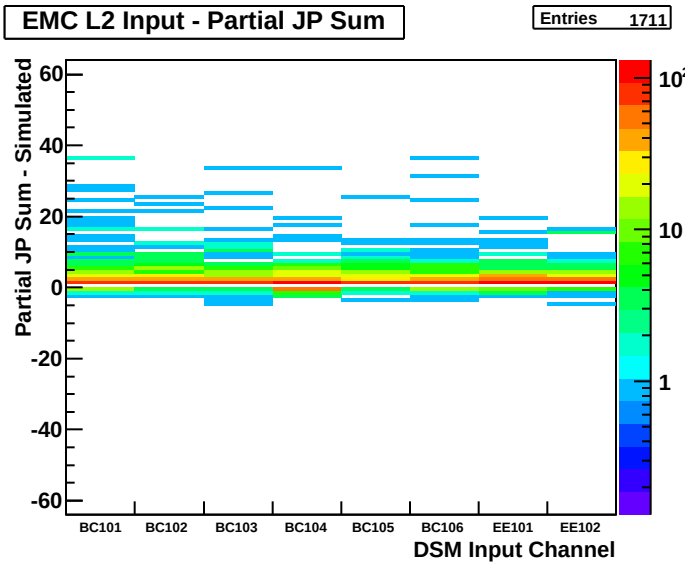

EMC L2 Input - JPY/JPB bits
Entries 1.595921e+07
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

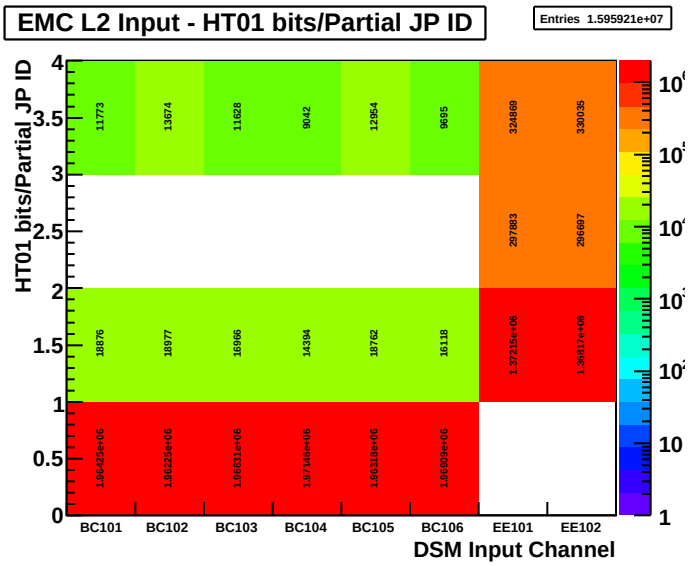

EMC L2 Input - JPY/JPB bits
Entries 1942
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

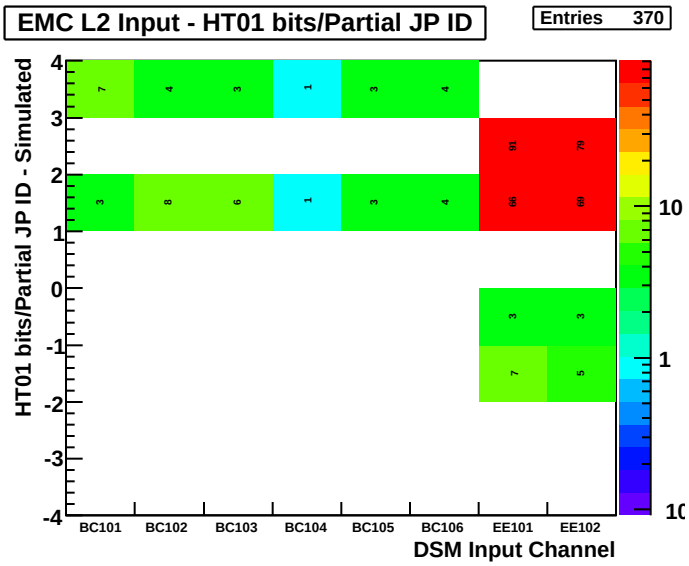

EMC L2 Input - JPZ/JPC bits
Entries 1.595921e+07
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

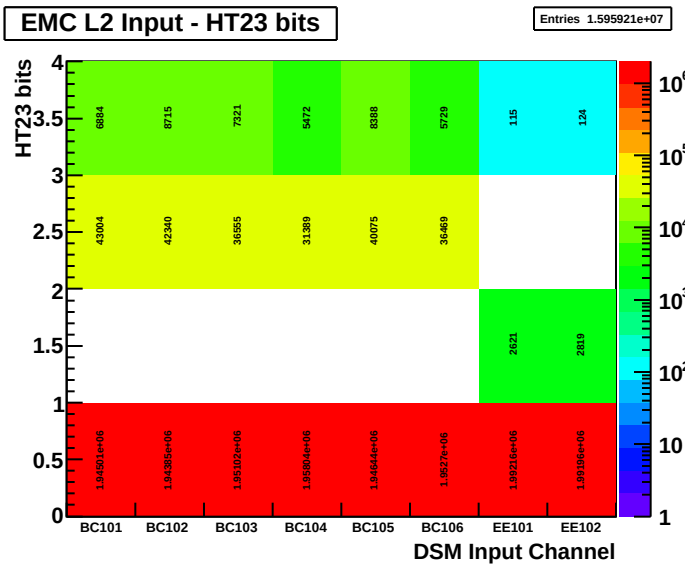

EMC L2 Input - JPZ/JPC bits
Entries 61
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

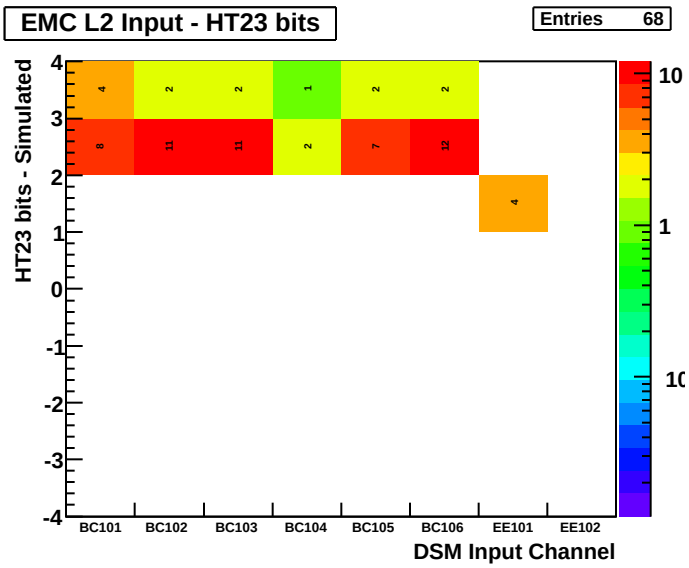

EMC L2 Input - Partial JP Sum
Entries 1.595921e+07
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

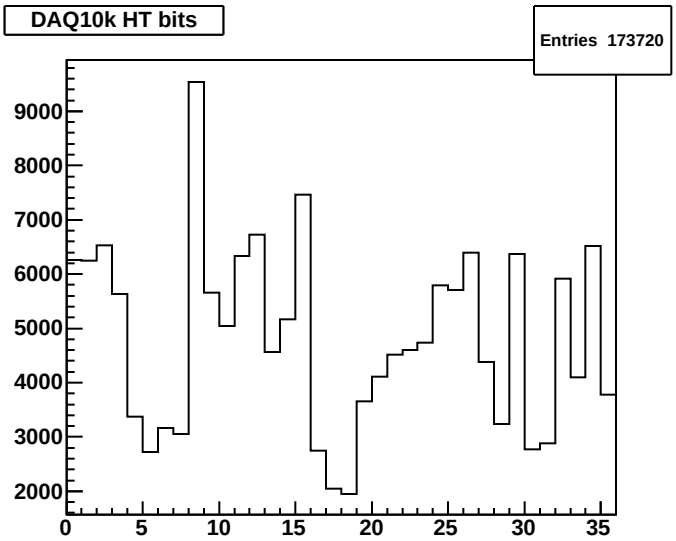

EMC L2 Input - Partial JP Sum
Entries 1711
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

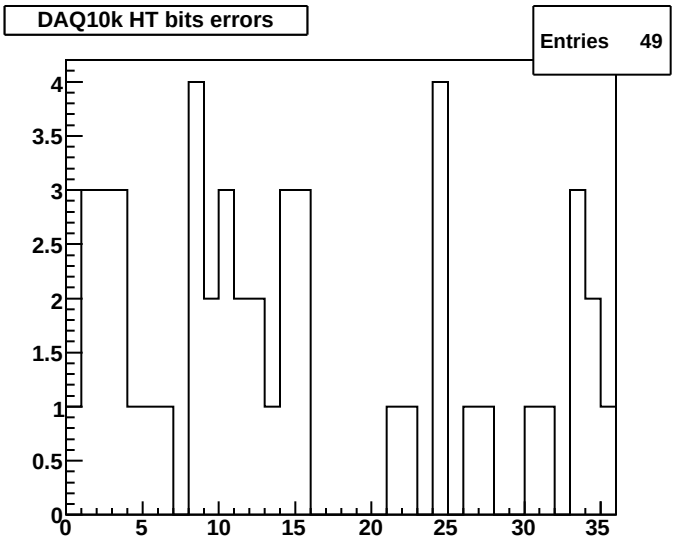

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1.595921e+07
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

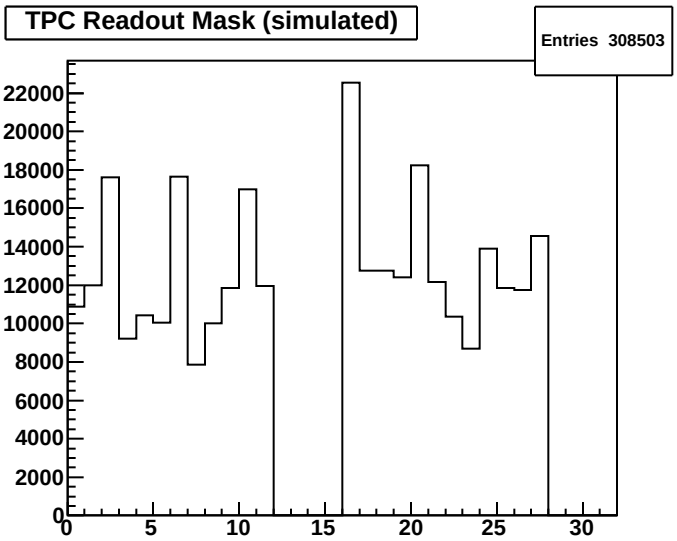

EMC L2 Input - HT01 bits/Partial JP ID
Entries 370
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

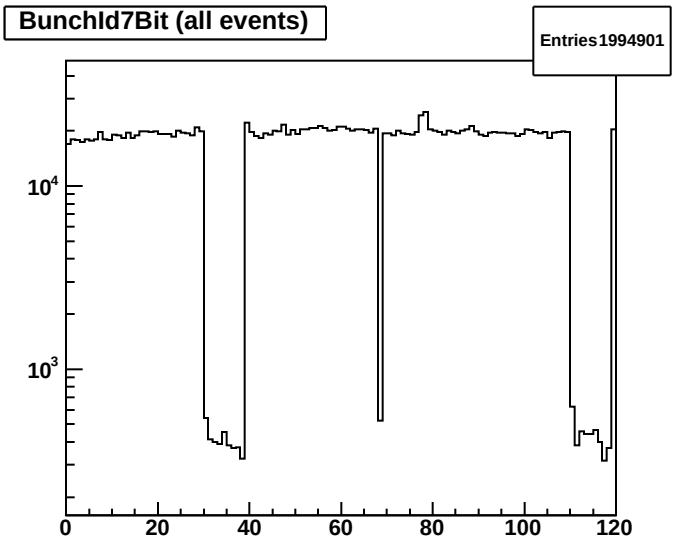

EMC L2 Input - HT23 bits
Entries 1.595921e+07
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

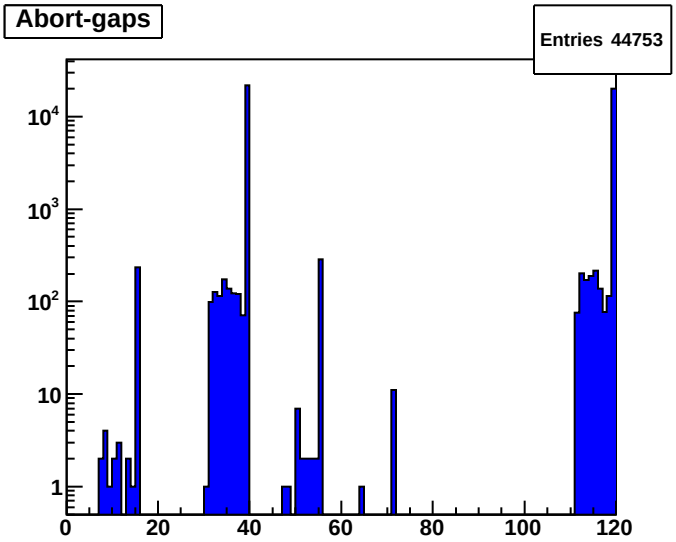

EMC L2 Input - HT23 bits
Entries 68
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

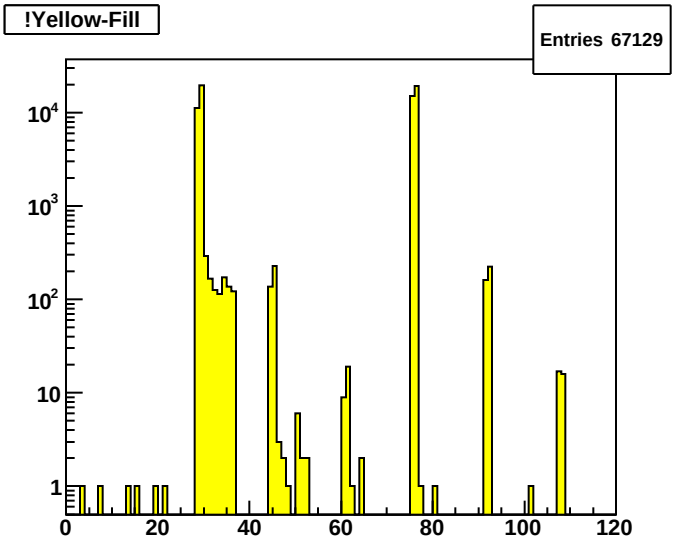

DAQ10k HT bits
Entries 173720

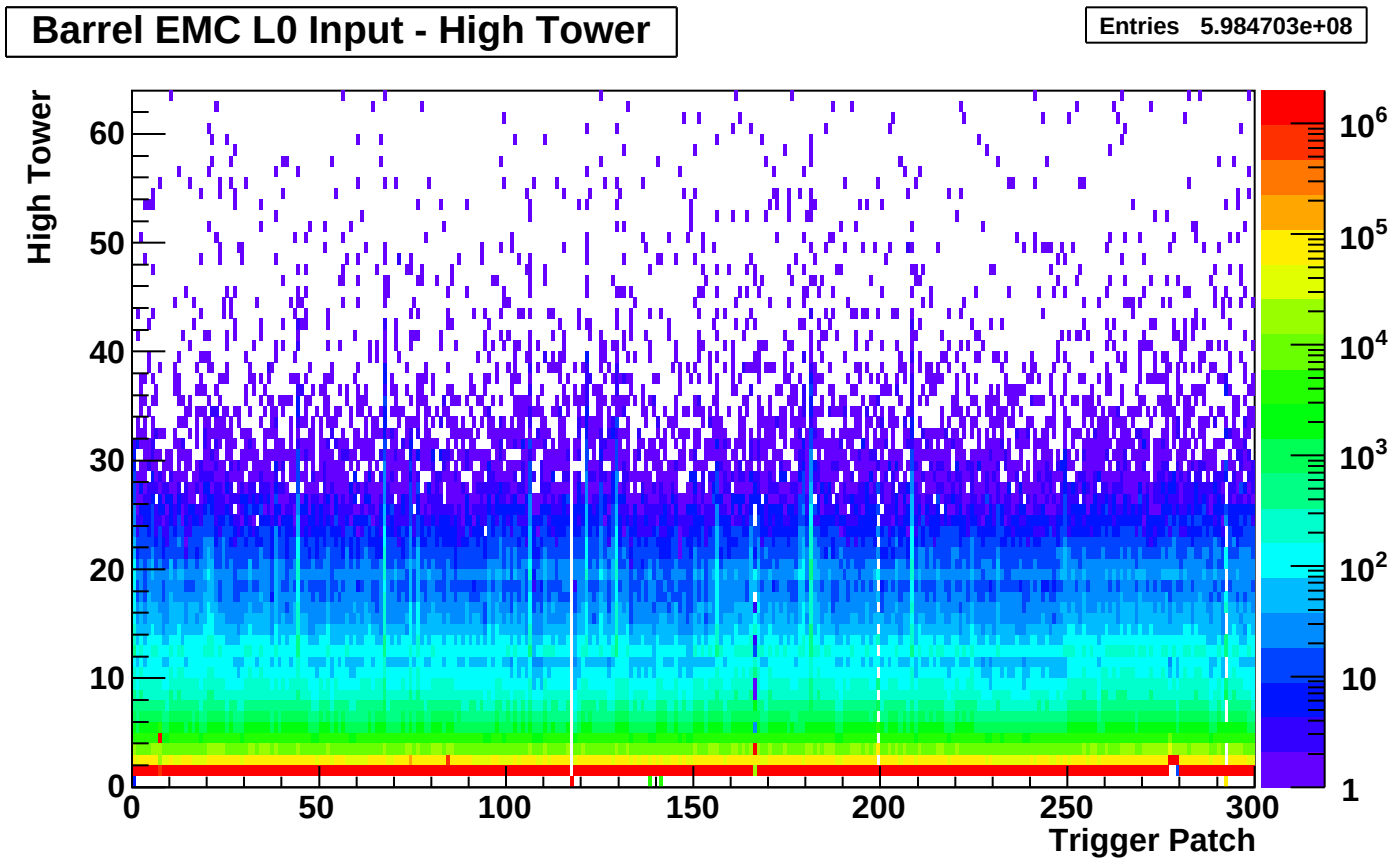

DAQ10k HT bits errors
Entries 49

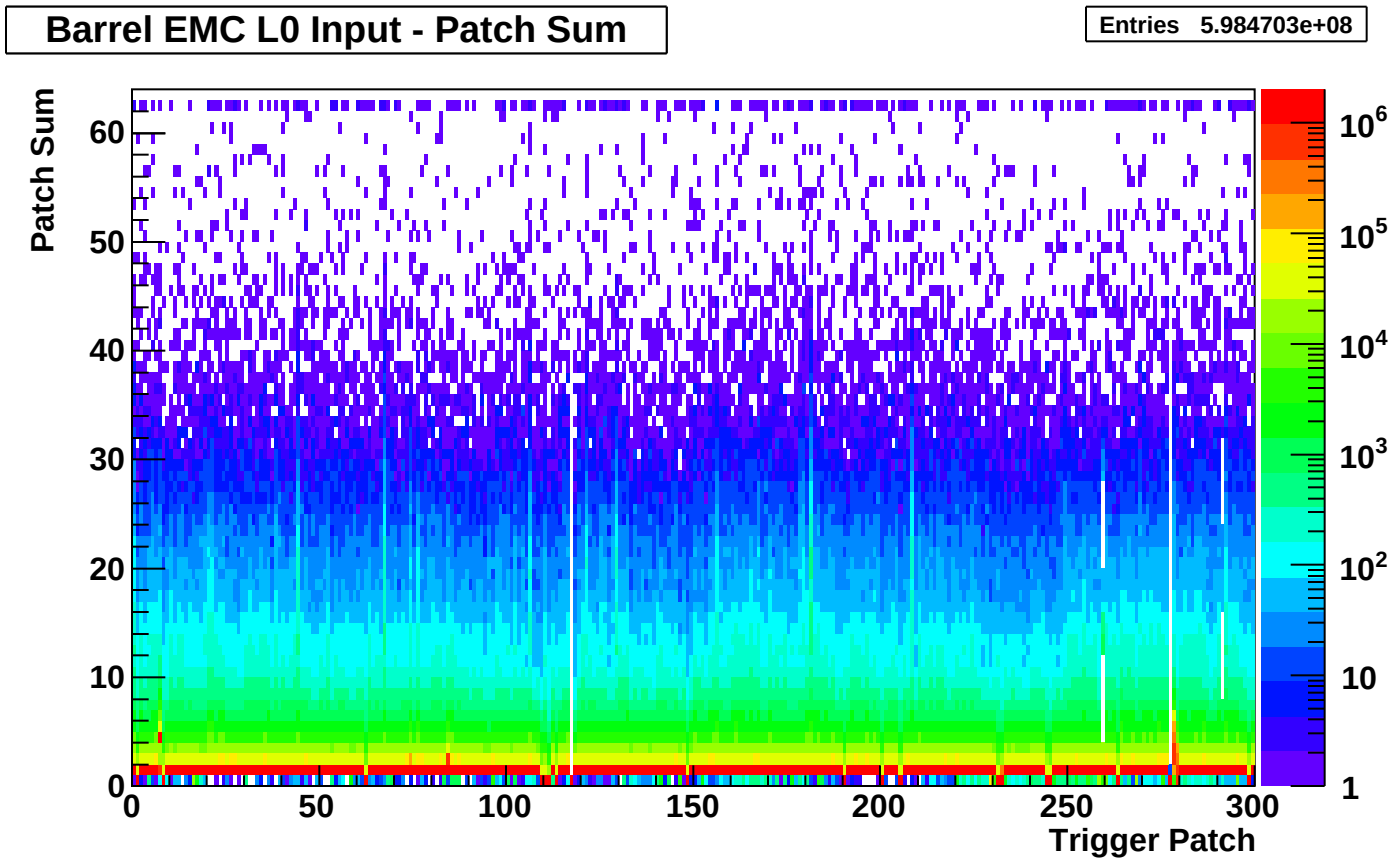

TPC Readout Mask (simulated)
Entries 308503

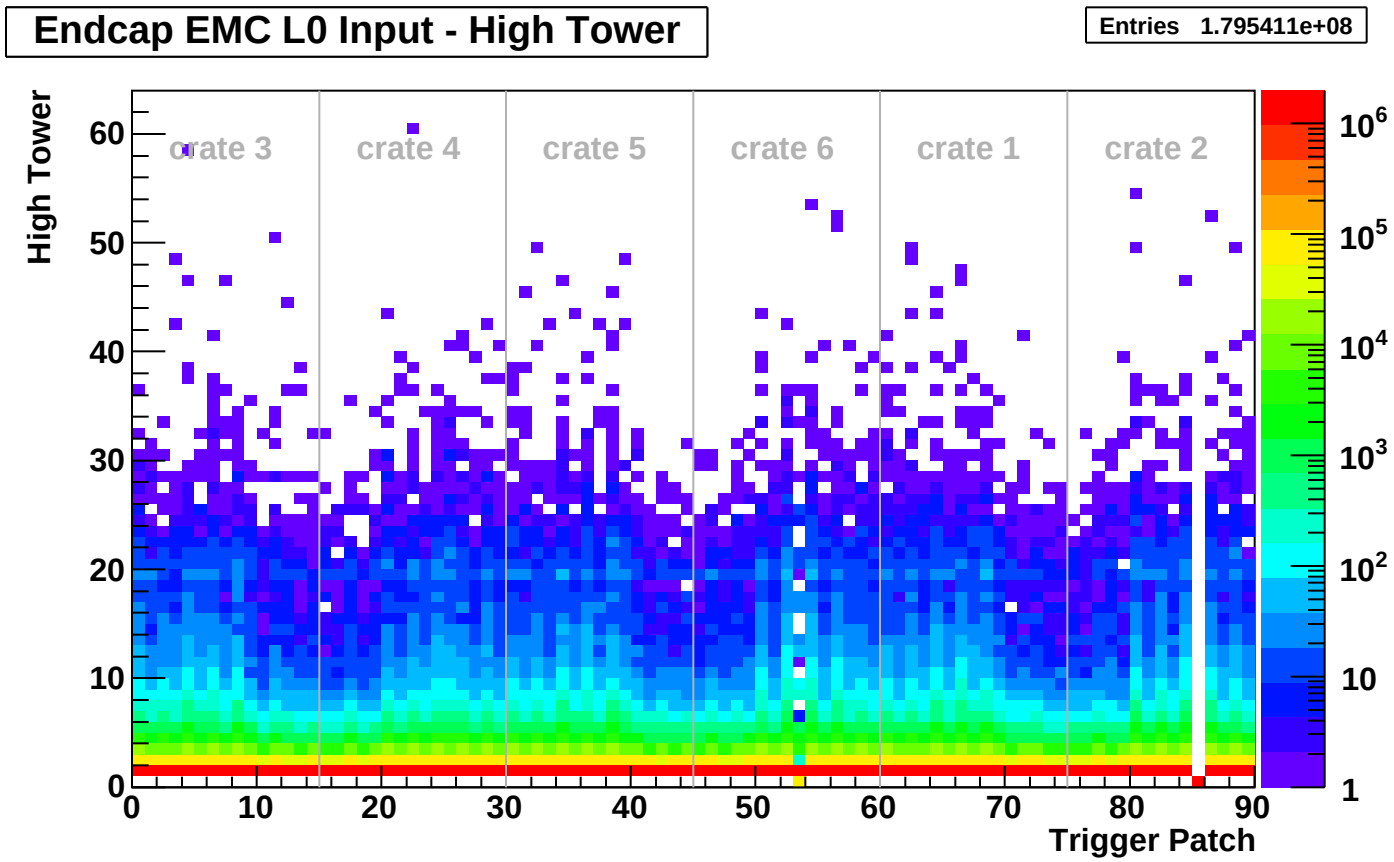

BunchId7Bit (all events)
Entries 1994901

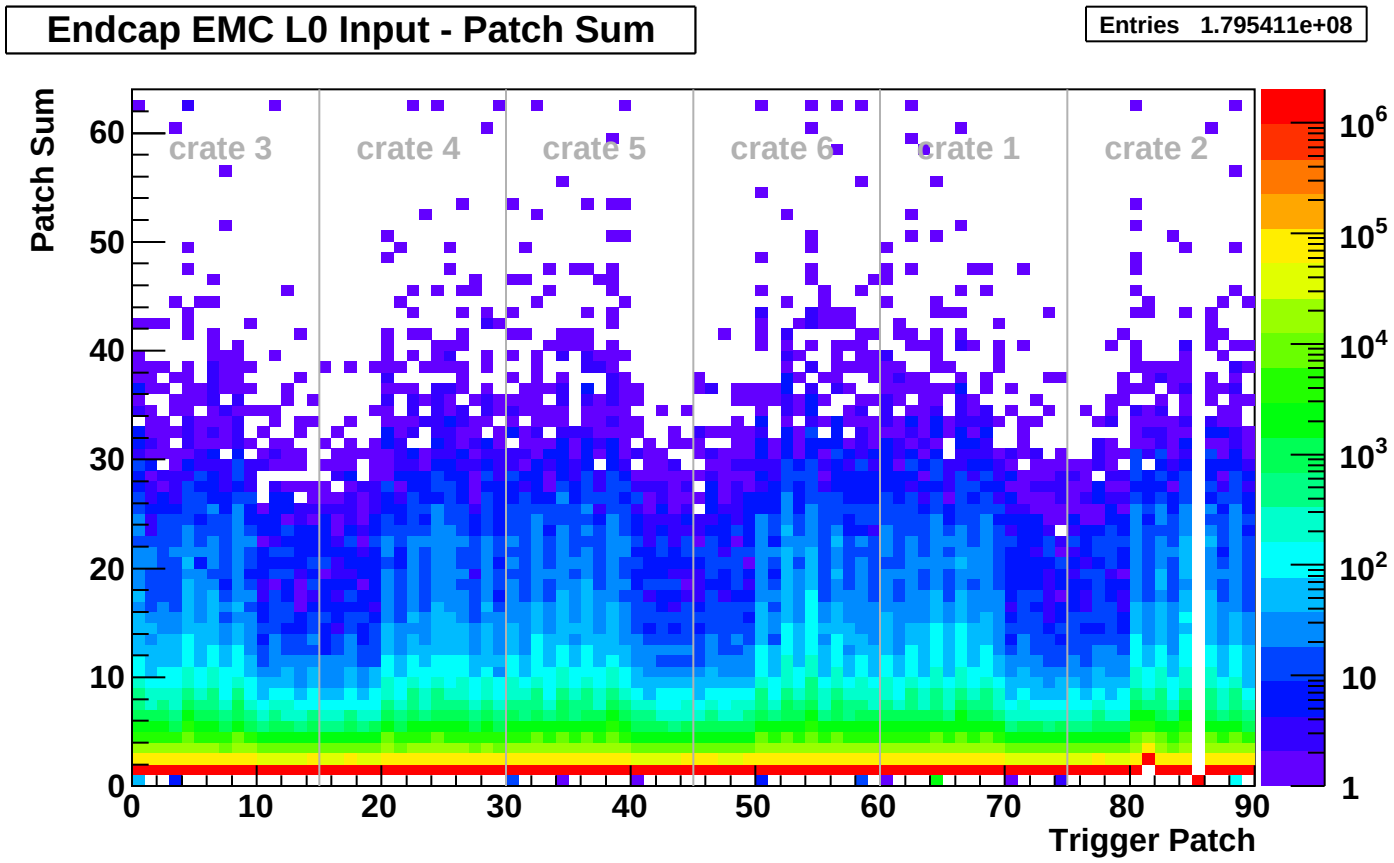

Abort-gaps
Entries 44753

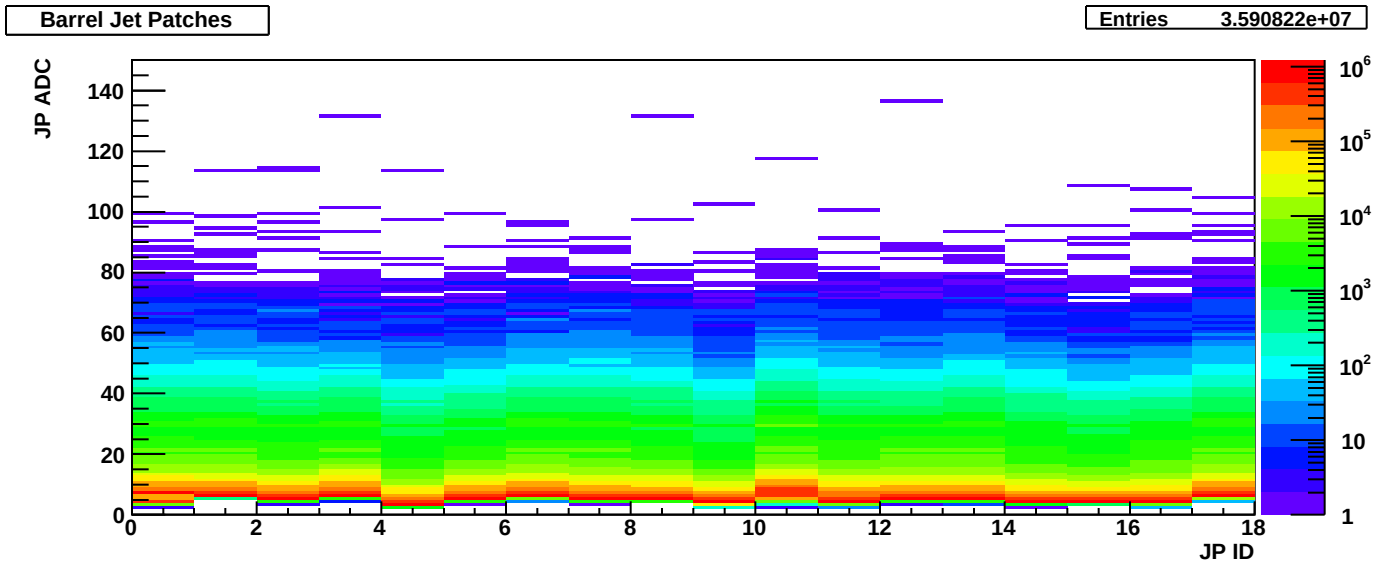

!Yellow-Fill
Entries 67129

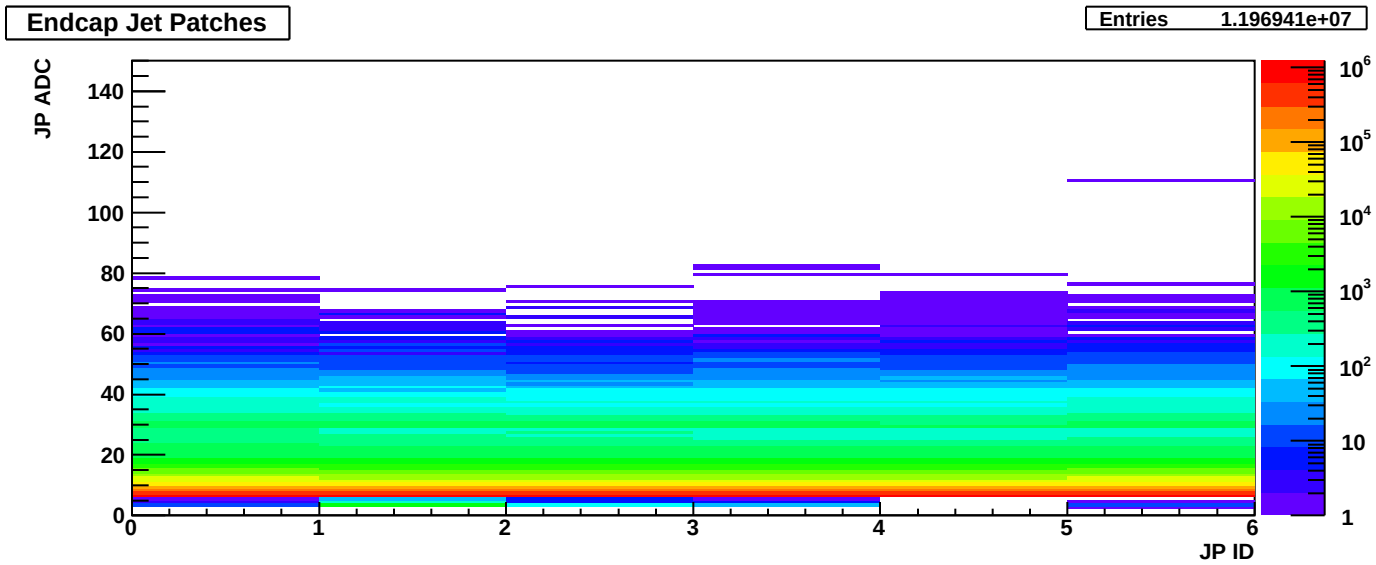

Barrel EMC L0 Input - High Tower
Entries 5.984703e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

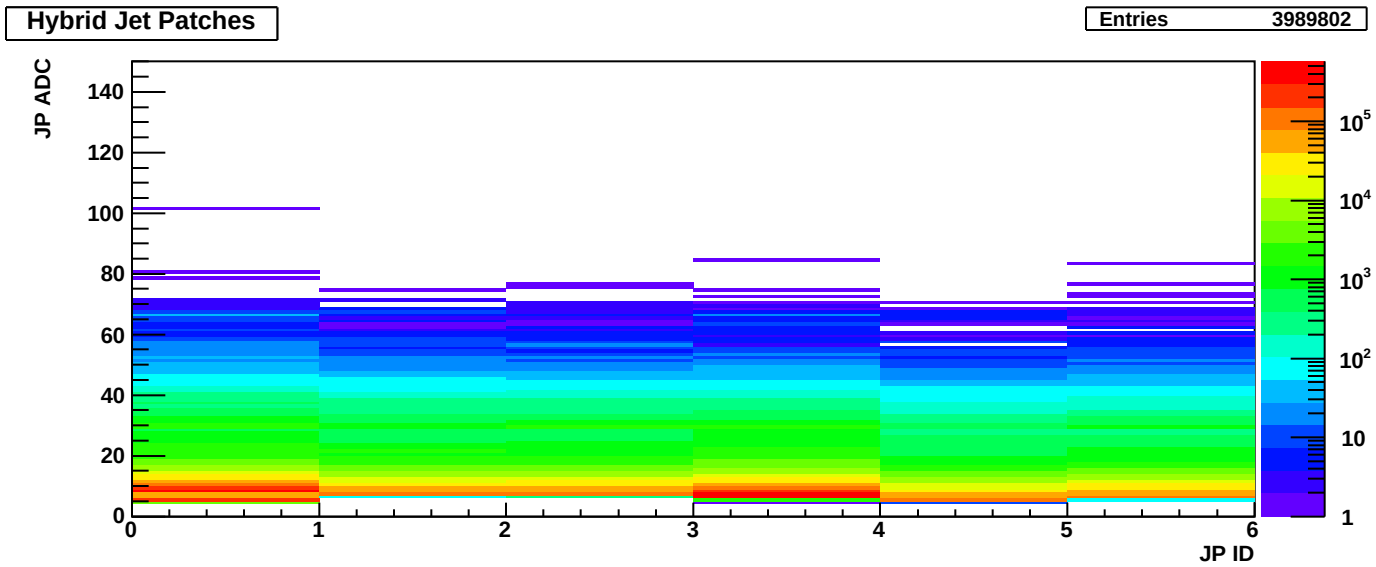

Barrel EMC L0 Input - Patch Sum
Entries 5.984703e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

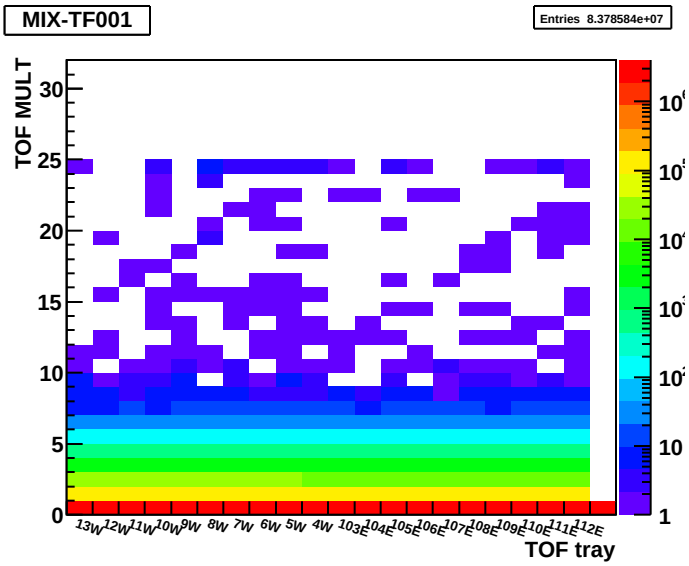

Endcap EMC L0 Input - High Tower
Entries 1.795411e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

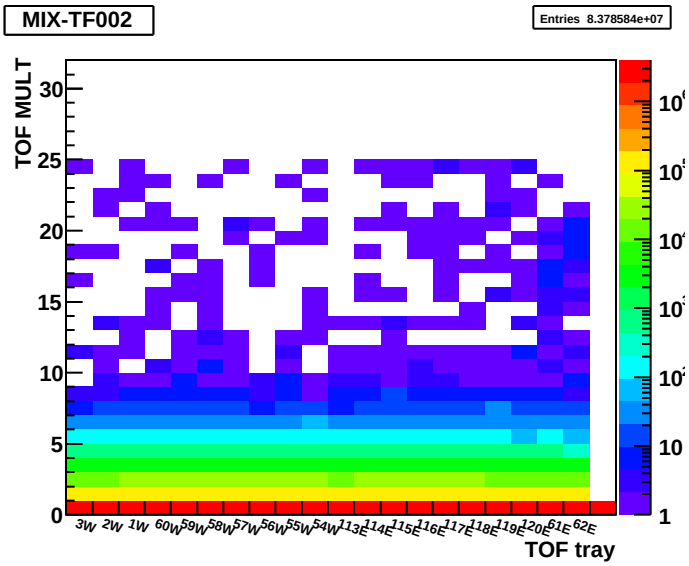

Endcap EMC L0 Input - Patch Sum
Entries 1.795411e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

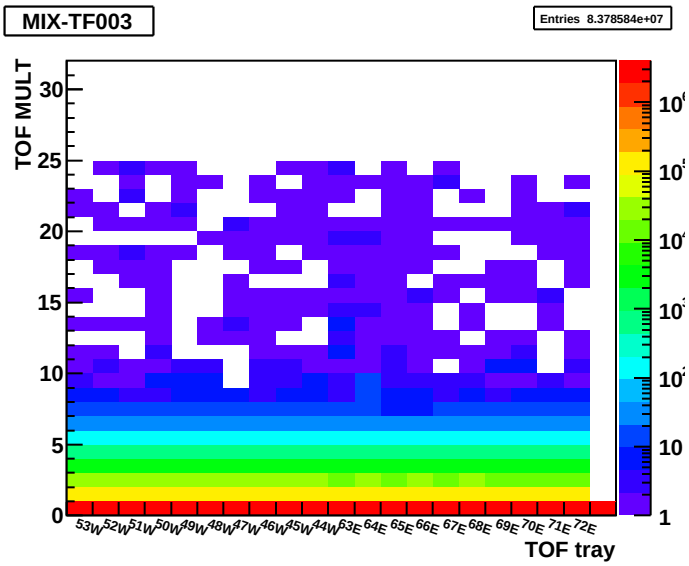

Barrel Jet Patches
Entries 3.590822e+07
JP ADC
JP ID

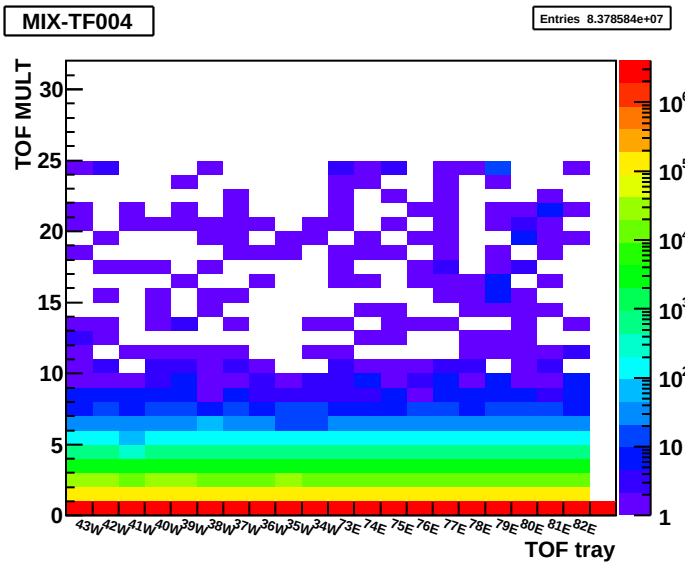

Endcap Jet Patches
Entries 1.196941e+07
JP ADC
JP ID

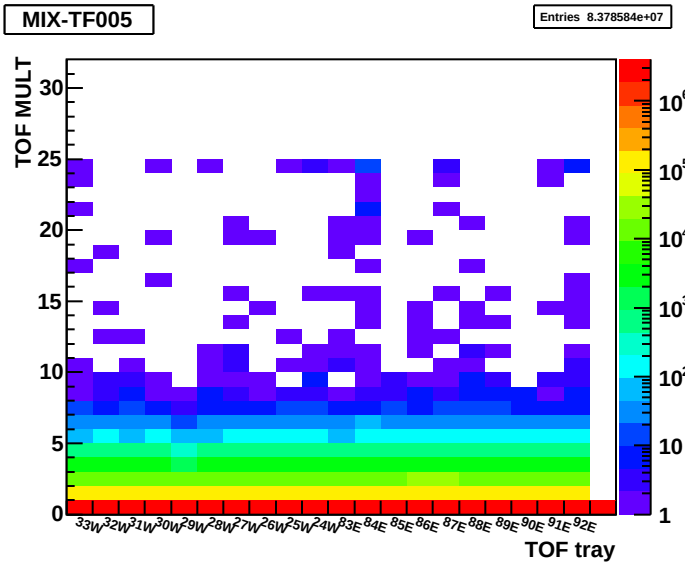

Hybrid Jet Patches
Entries 3989802
JP ADC
JP ID

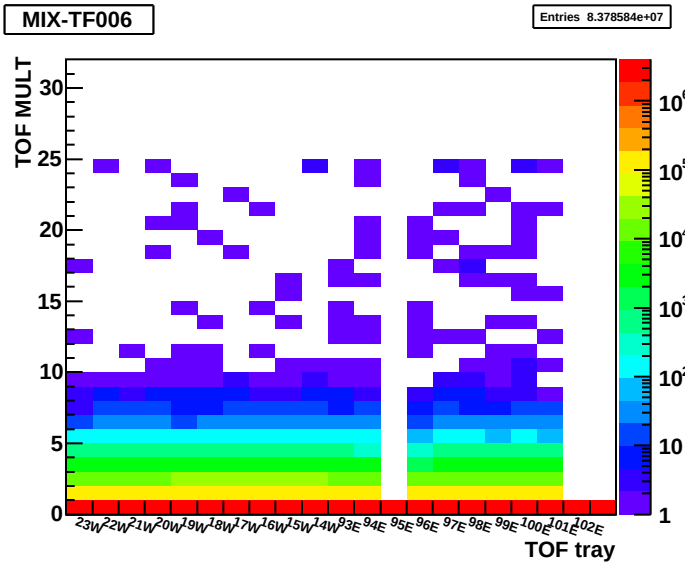

MIX-TF001
Entries 8.378584e+07
TOF MULT
TOF tray

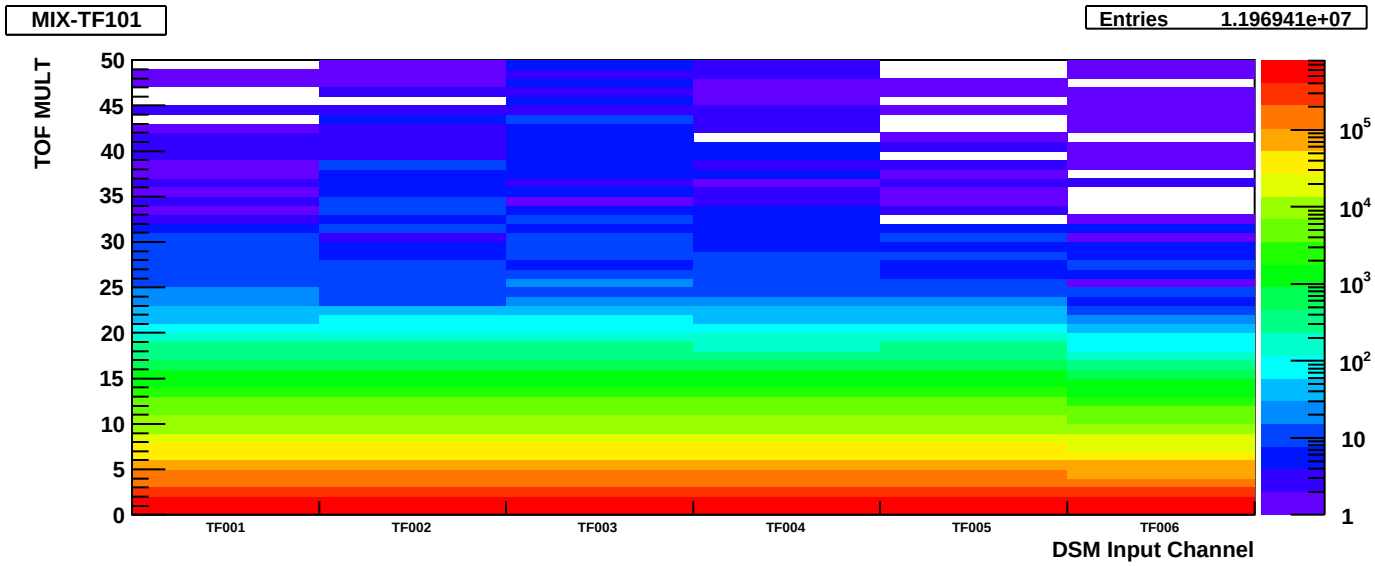

MIX-TF002
Entries 8.378584e+07
TOF MULT
TOF tray

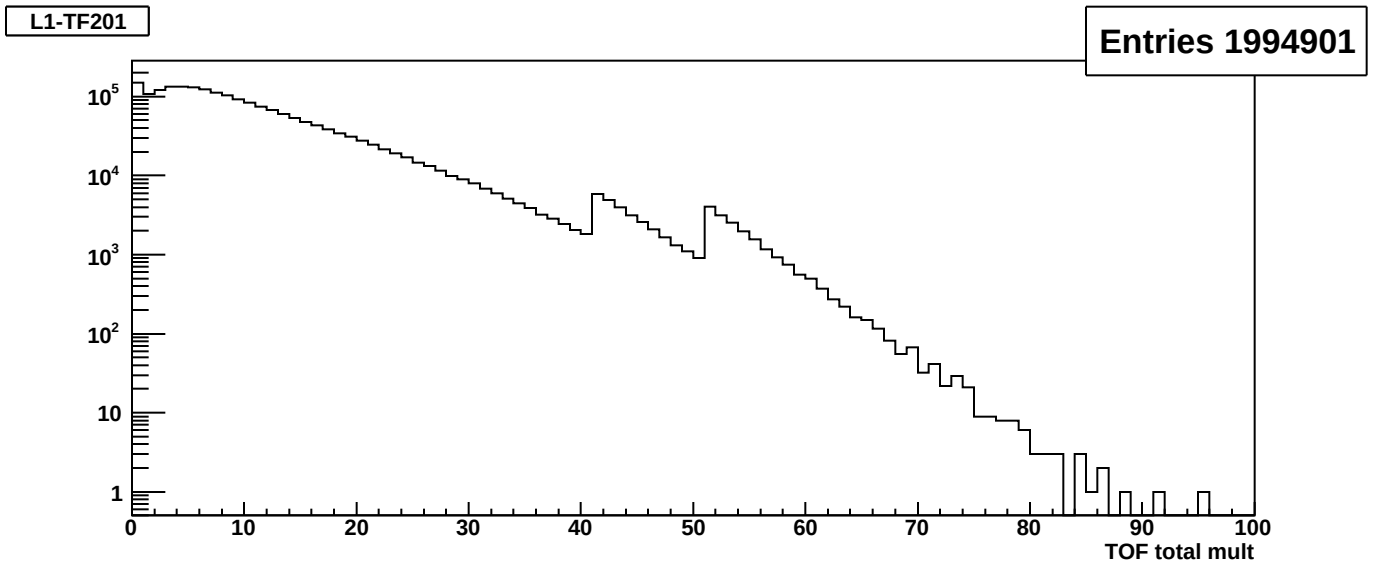

MIX-TF003
Entries 8.378584e+07
TOF MULT
TOF tray

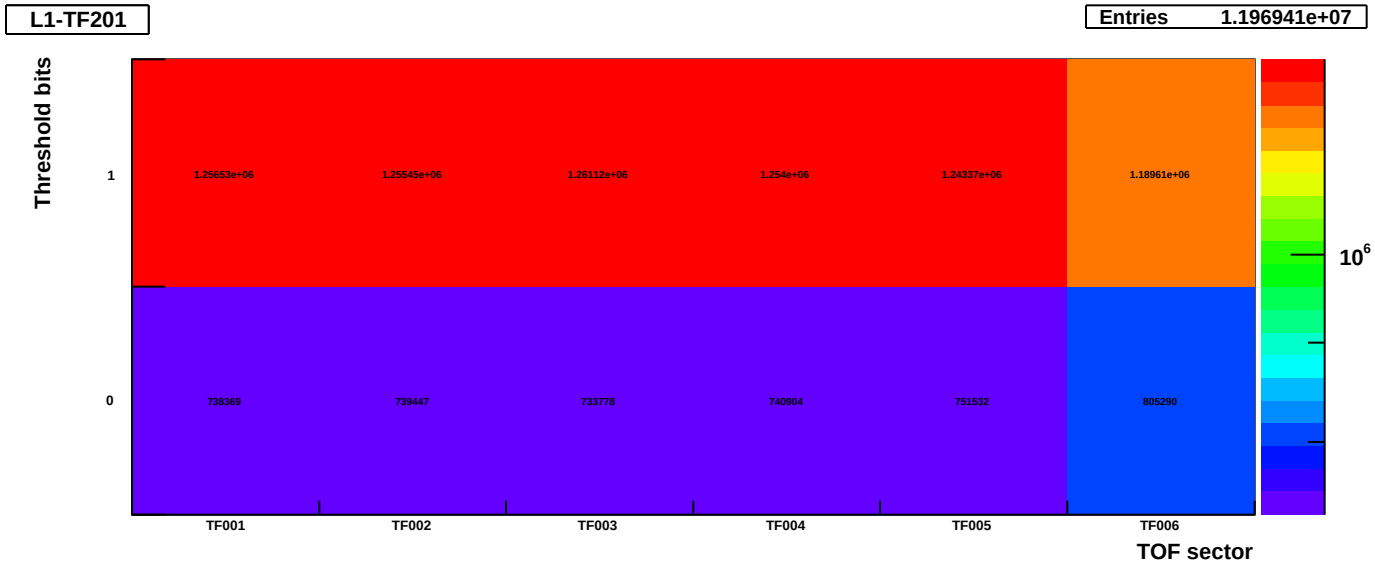

MIX-TF004
Entries 8.378584e+07
TOF MULT
TOF tray

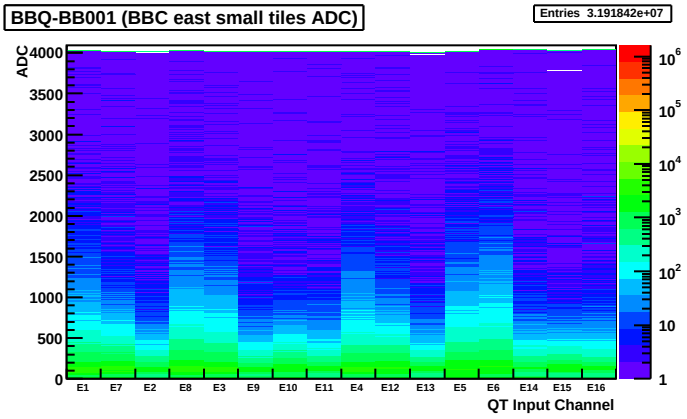

MIX-TF005
Entries 8.378584e+07
TOF MULT
TOF tray

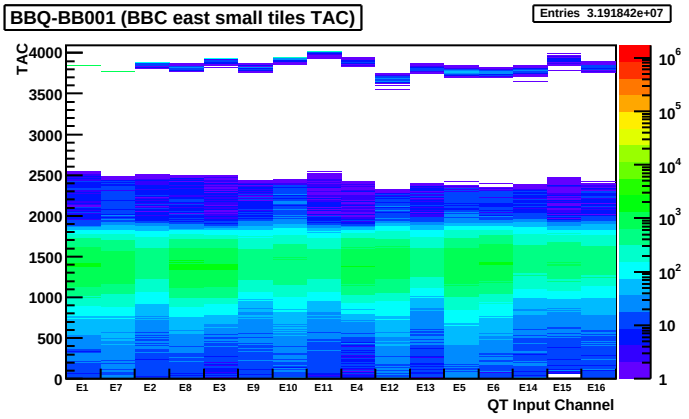

MIX-TF006
Entries 8.378584e+07
TOF MULT
TOF tray

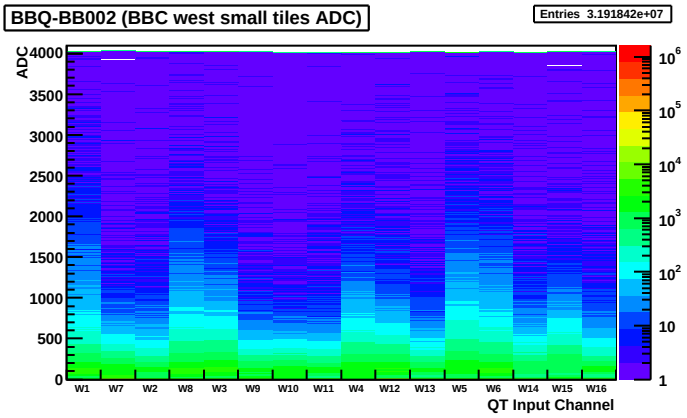

MIX-TF101
Entries 1.196941e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

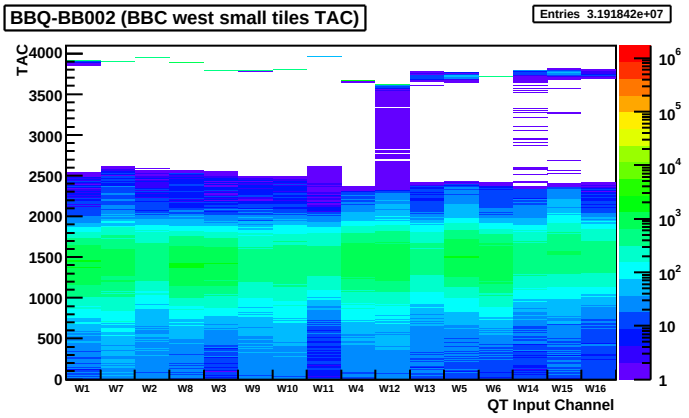

L1-TF201
Entries 1994901
TOF total mult

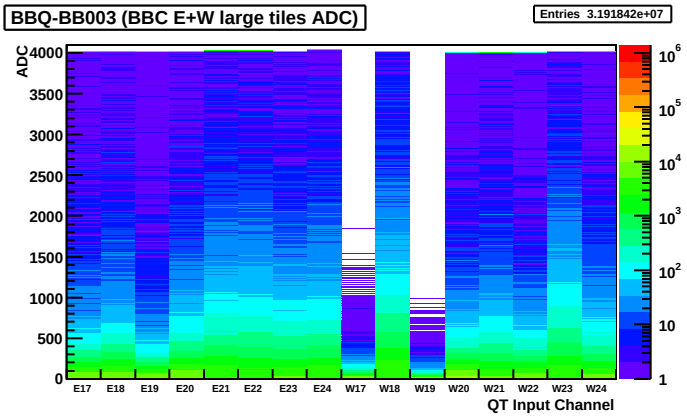

L1-TF201
Entries 1.196941e+07
Threshold bits
1.25653e+06
1.25545e+06
1.26112e+06
1.254e+06
1.24337e+06
1.18961e+06
738369
739447
733778
740904
751532
805290
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

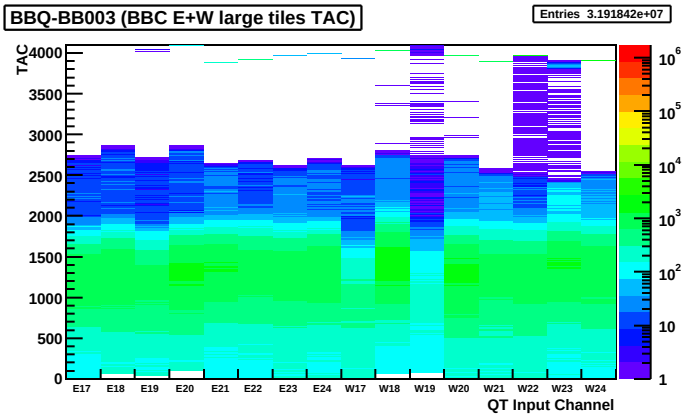

BBQ-BB001 (BBC east small tiles ADC)
Entries 3.191842e+07
ADC
QT Input Channel

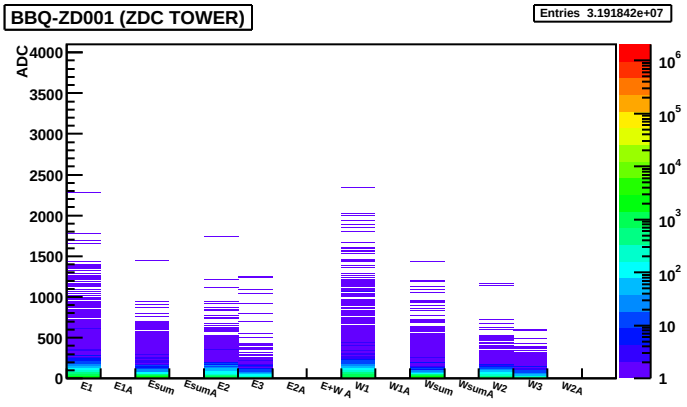

BBQ-BB001 (BBC east small tiles TAC)
Entries 3.191842e+07
TAC
QT Input Channel

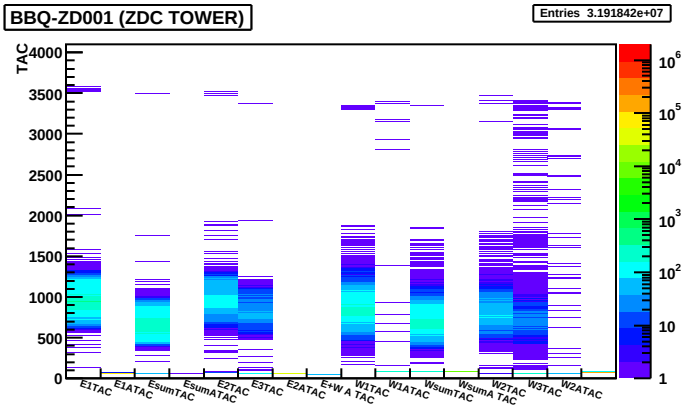

BBQ-BB002 (BBC west small tiles ADC)
Entries 3.191842e+07
ADC
QT Input Channel

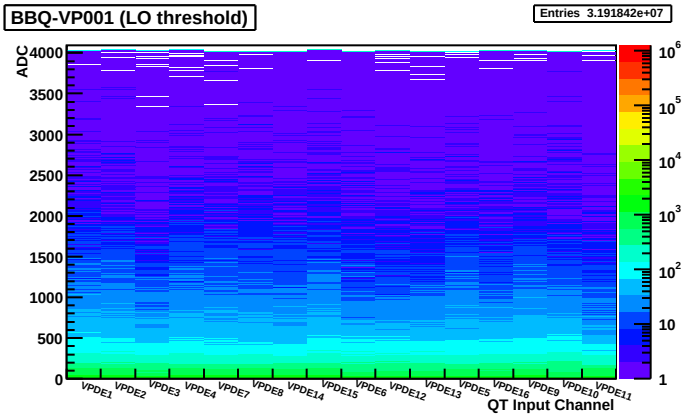

BBQ-BB002 (BBC west small tiles TAC)
Entries 3.191842e+07
TAC
QT Input Channel

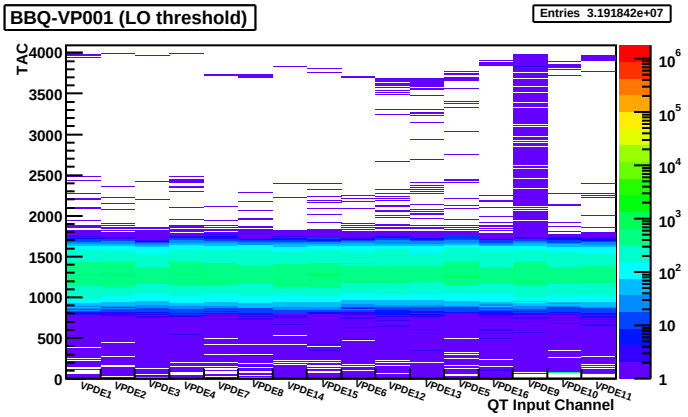

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3.191842e+07
ADC
QT Input Channel

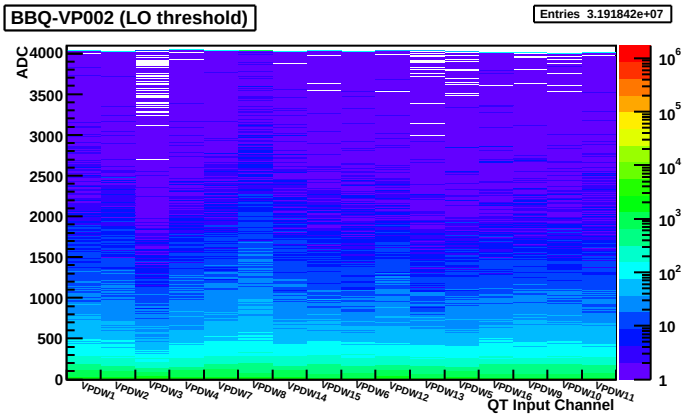

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3.191842e+07
TAC
QT Input Channel

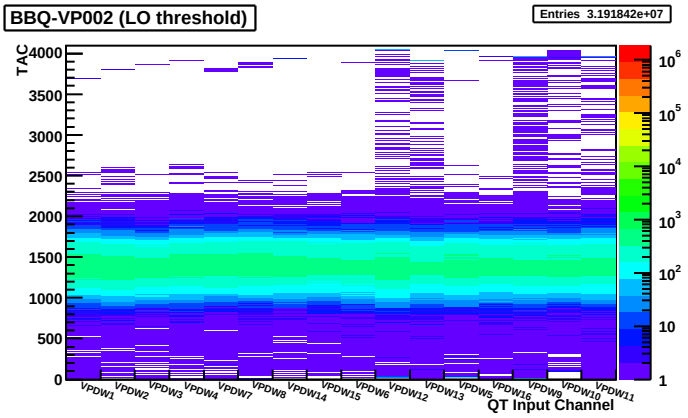

BBQ-ZD001 (ZDC TOWER)
Entries 3.191842e+07
ADC

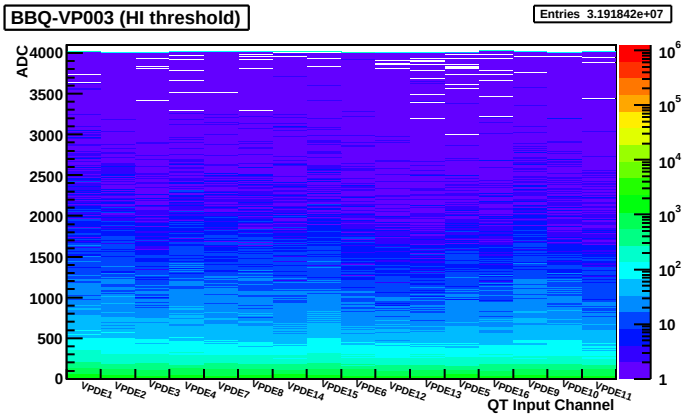

BBQ-ZD001 (ZDC TOWER)
Entries 3.191842e+07
TAC

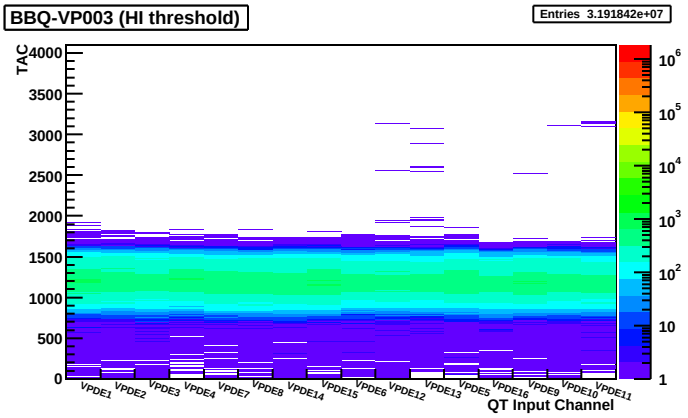

BBQ-VP001 (LO threshold)
Entries 3.191842e+07
ADC
QT Input Channel

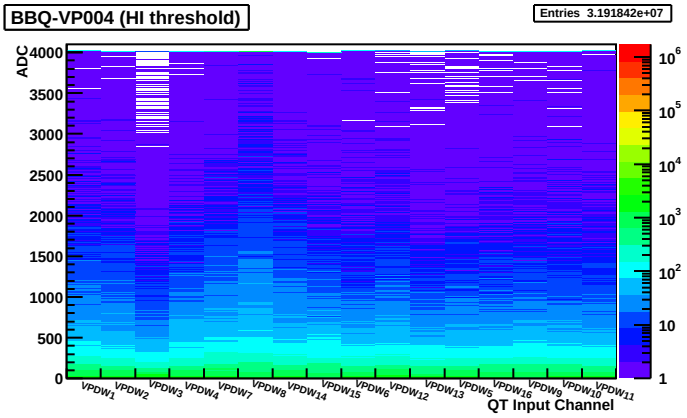

BBQ-VP001 (LO threshold)
Entries 3.191842e+07
TAC
QT Input Channel

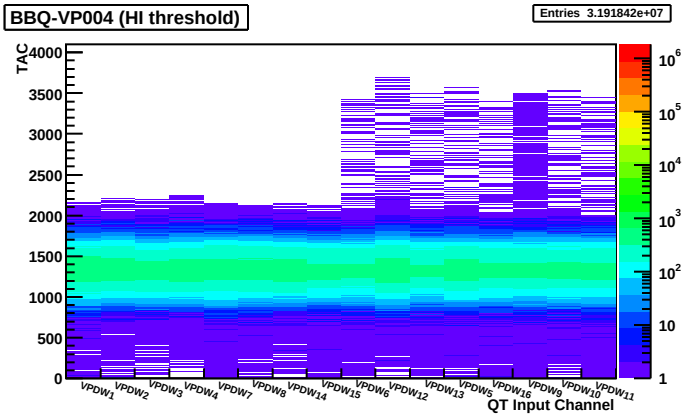

BBQ-VP002 (LO threshold)
Entries 3.191842e+07
ADC
QT Input Channel

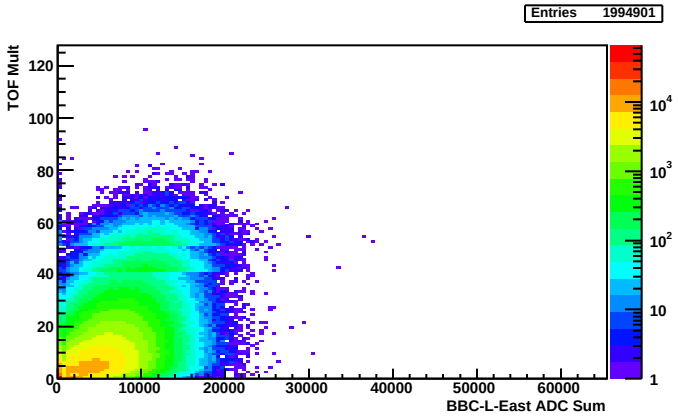

BBQ-VP002 (LO threshold)
Entries 3.191842e+07
TAC
QT Input Channel

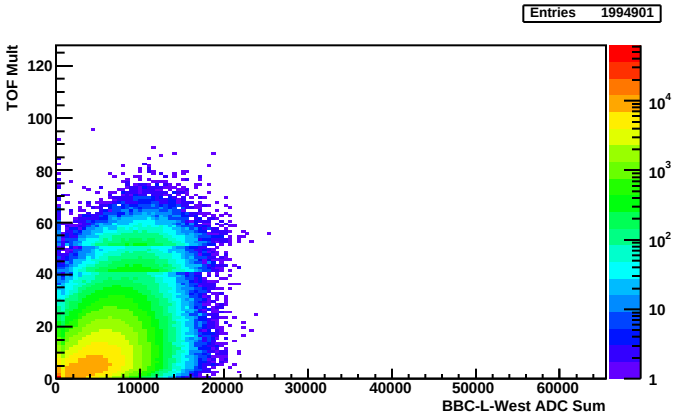

BBQ-VP003 (HI threshold)
Entries 3.191842e+07
ADC
QT Input Channel

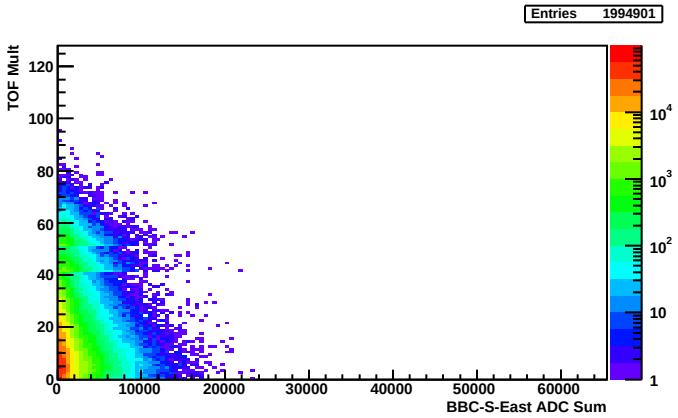

BBQ-VP003 (HI threshold)
Entries 3.191842e+07
TAC
QT Input Channel

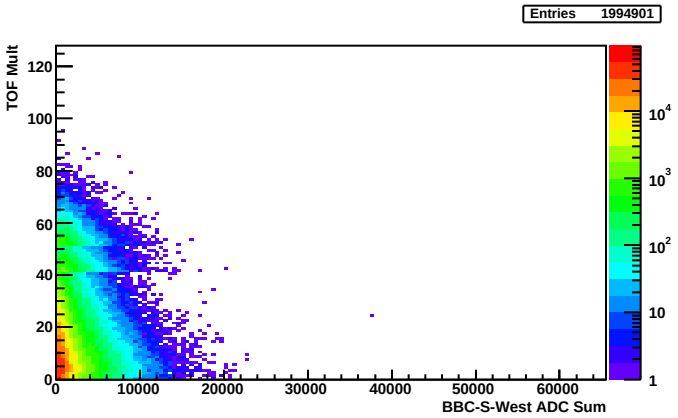

BBQ-VP004 (HI threshold)
Entries 3.191842e+07
ADC
QT Input Channel

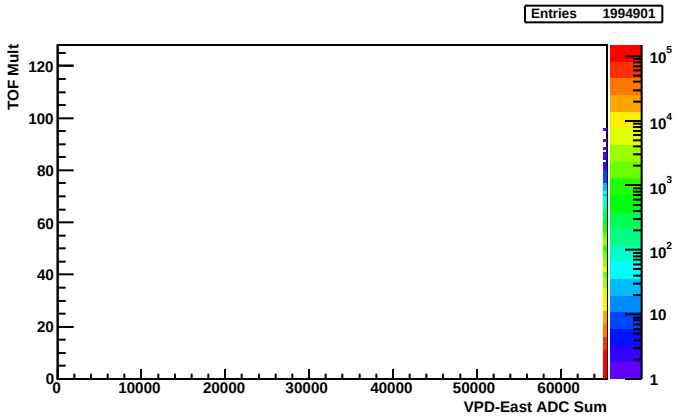

BBQ-VP004 (HI threshold)
Entries 3.191842e+07
TAC
QT Input Channel

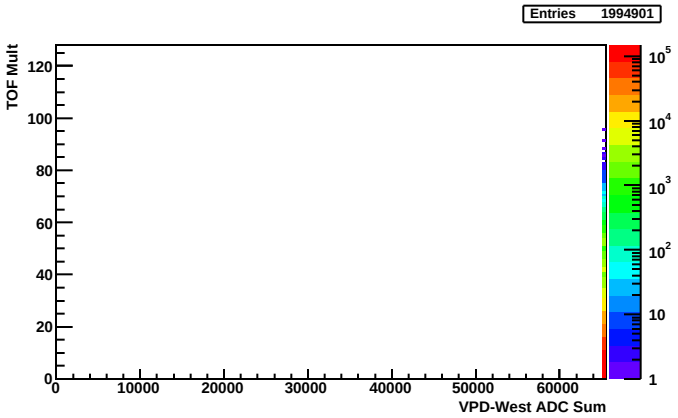

Entries 1994901
TOF Mult
BBC-L-East ADC Sum

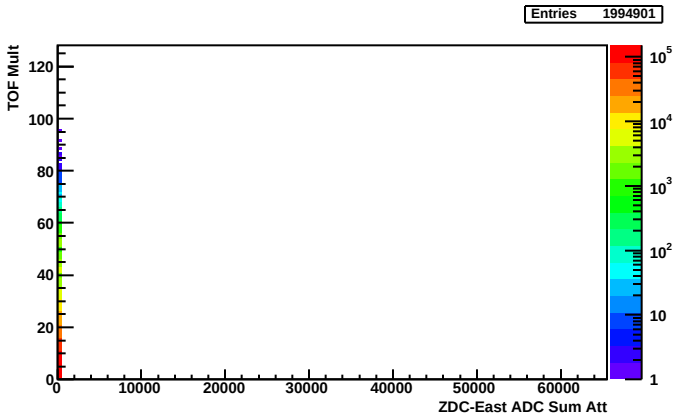

Entries 1994901
TOF Mult
BBC-L-West ADC Sum

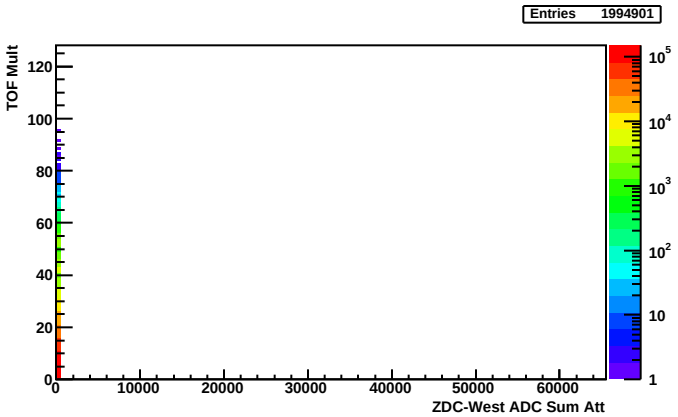

Entries 1994901
TOF Mult
BBC-S-East ADC Sum

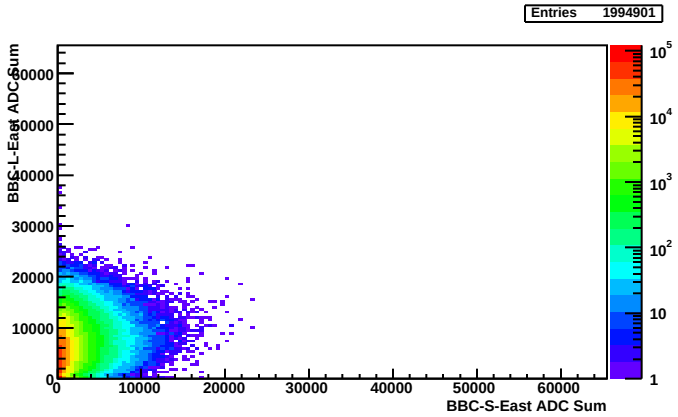

Entries 1994901
TOF Mult
BBC-S-West ADC Sum

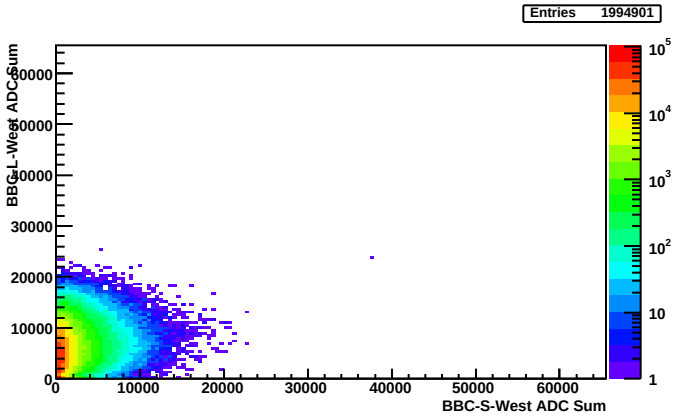

Entries 1994901
TOF Mult
VPD-East ADC Sum

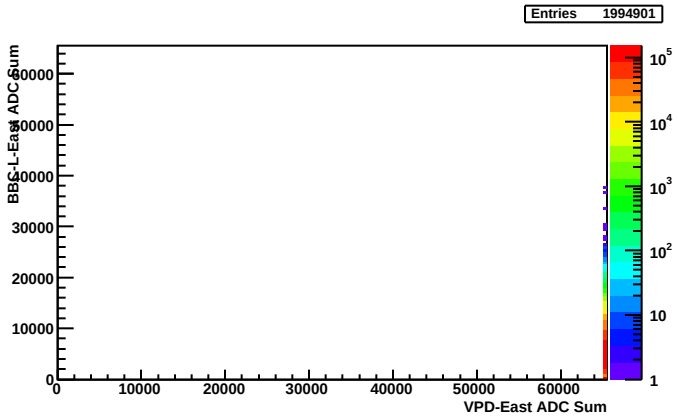

Entries 1994901
TOF Mult
VPD-West ADC Sum

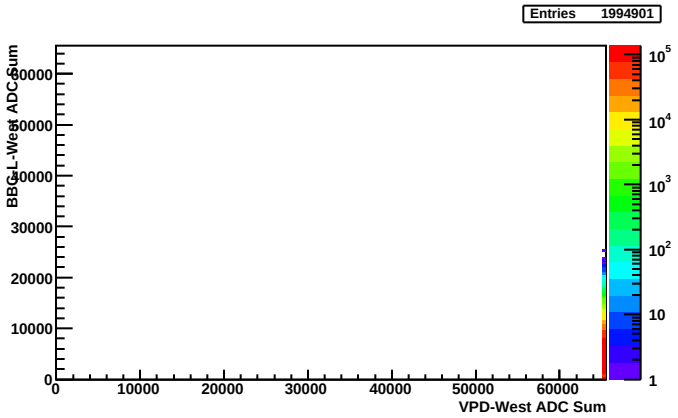

Entries 1994901
TOF Mult
ZDC-East ADC Sum Att

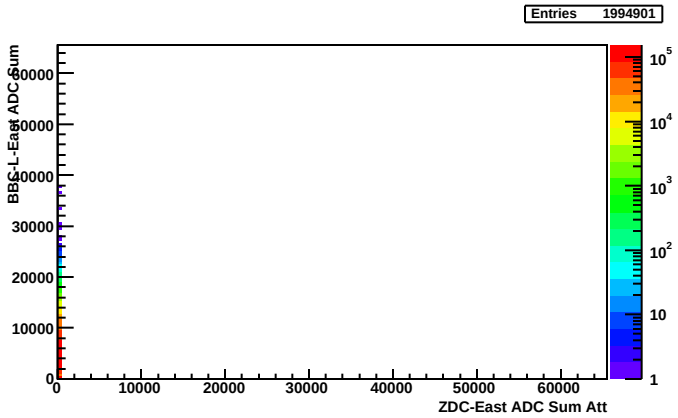

Entries 1994901
TOF Mult
ZDC-West ADC Sum Att

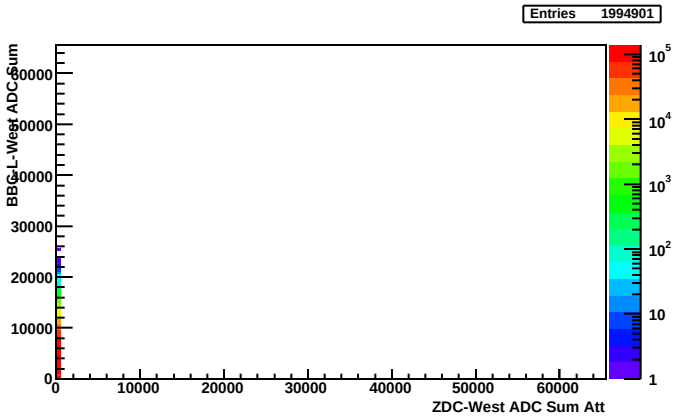

Entries 1994901
BBC-L-East ADC Sum
BBC-S-East ADC Sum

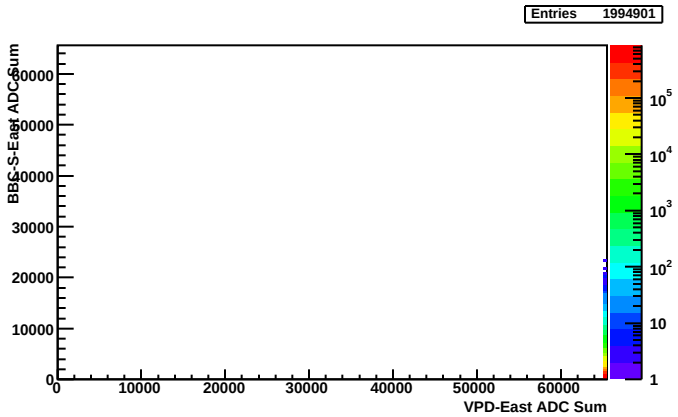

Entries 1994901
BBC-L-West ADC Sum
BBC-S-West ADC Sum

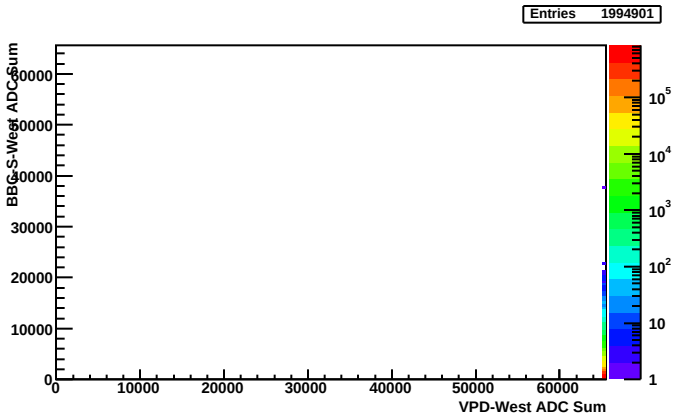

Entries 1994901
BBC-L-East ADC Sum
VPD-East ADC Sum

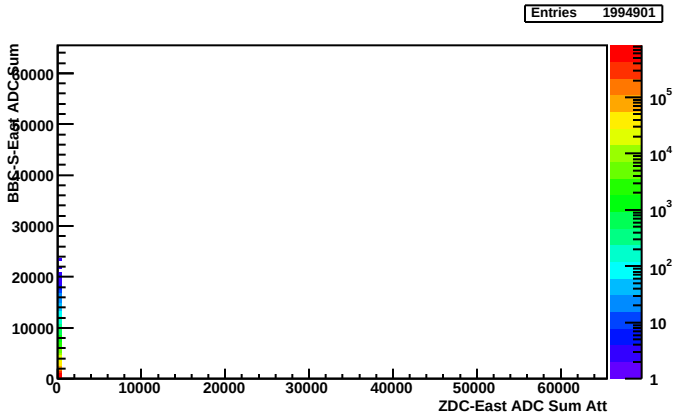

Entries 1994901
BBC-L-West ADC Sum
VPD-West ADC Sum

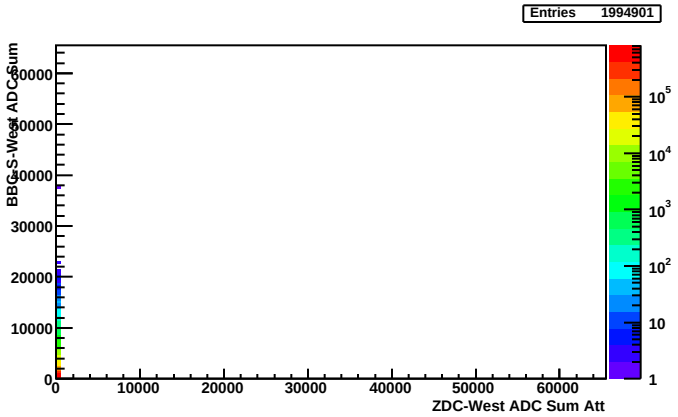

Entries 1994901
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

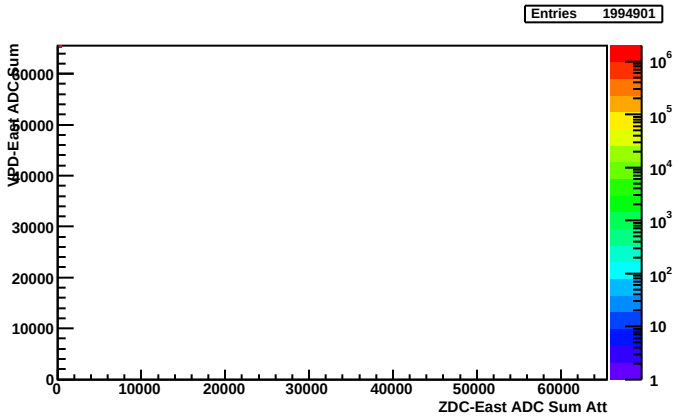

Entries 1994901
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

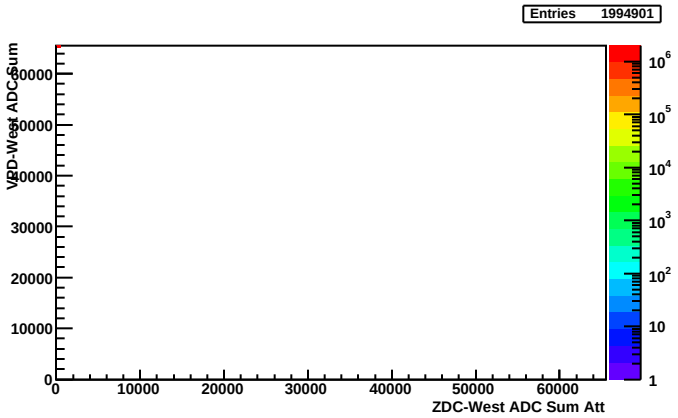

Entries 1994901
BBC-S-East ADC Sum
VPD-East ADC Sum

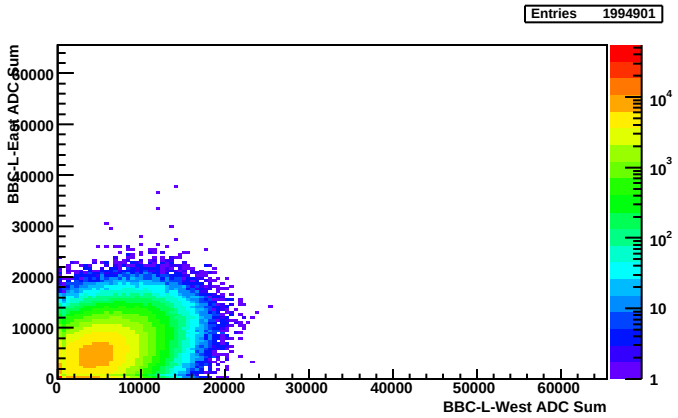

Entries 1994901
BBC-S-West ADC Sum
VPD-West ADC Sum

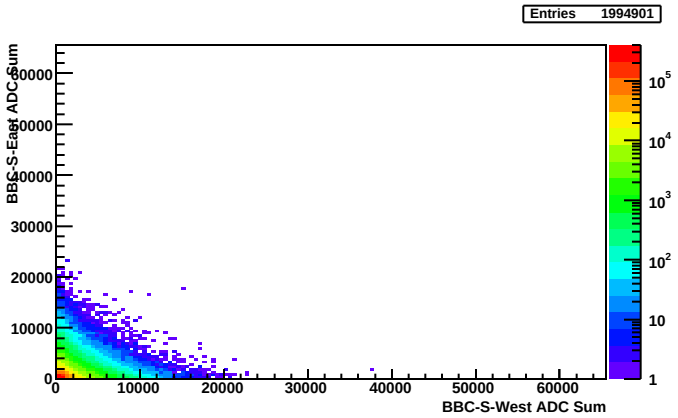

Entries 1994901
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

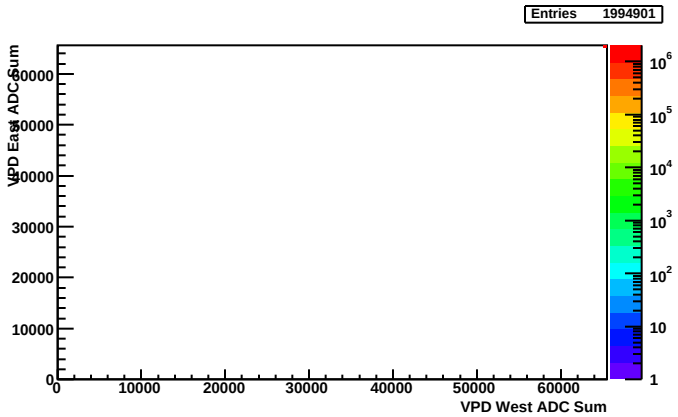

Entries 1994901
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

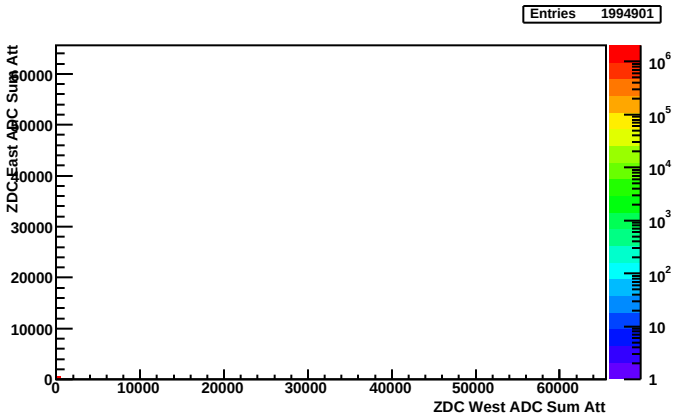

Entries 1994901
VPD-East ADC Sum
ZDC-East ADC Sum Att

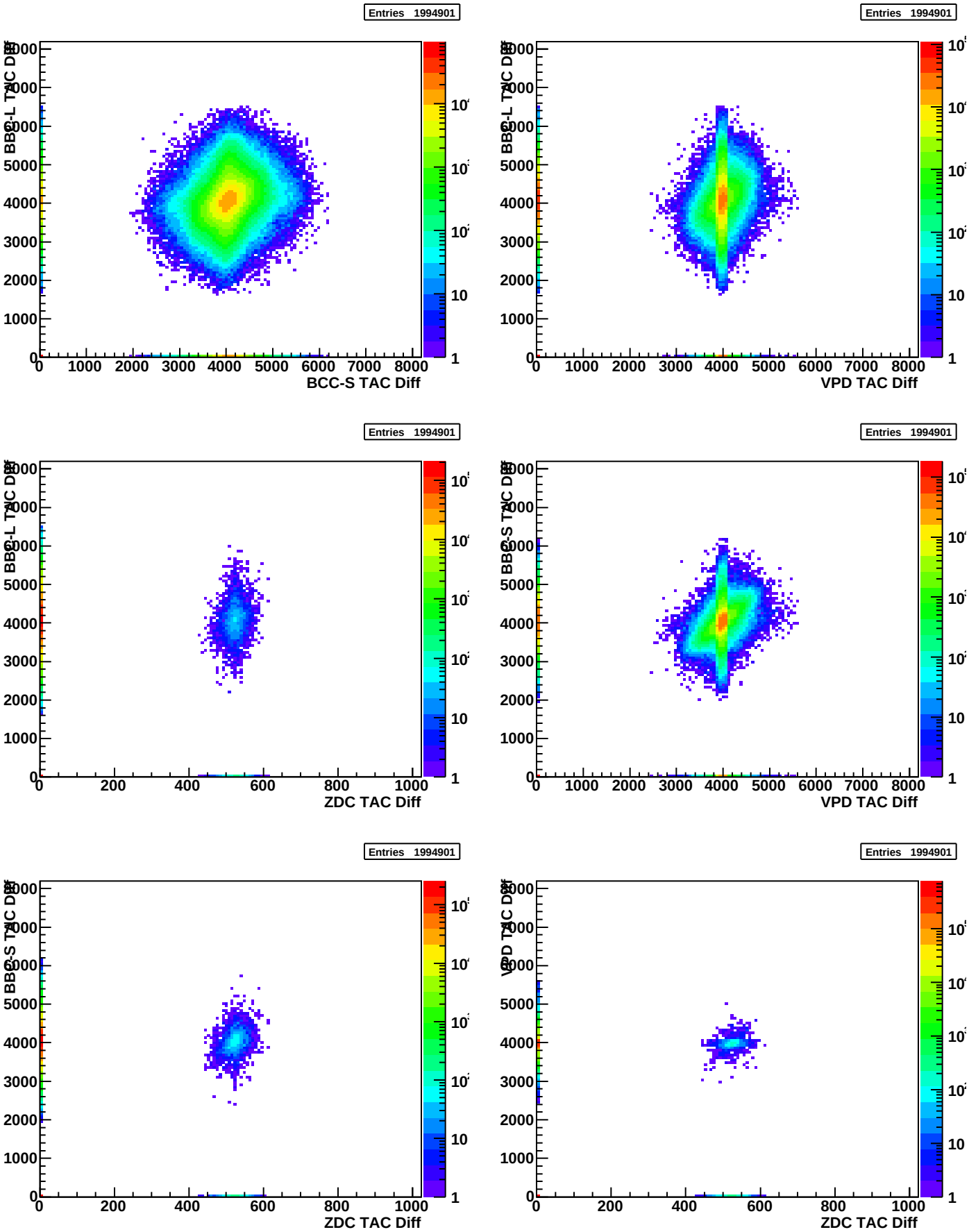

Entries 1994901
VPD-West ADC Sum
ZDC-West ADC Sum Att

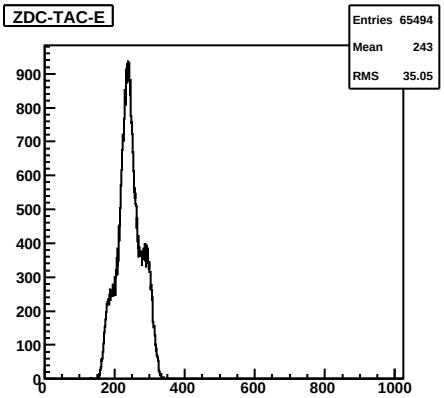

Entries 1994901
BBC-L-East ADC Sum
BBC-L-West ADC Sum

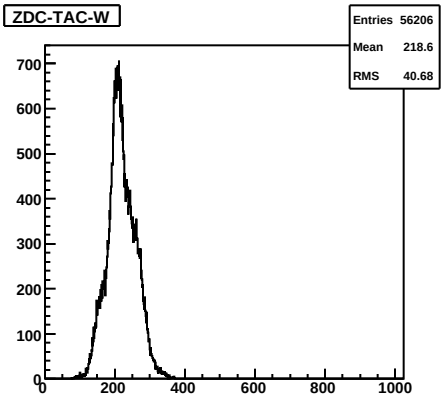

Entries 1994901
BBC-S-East ADC Sum
BBC-S-West ADC Sum

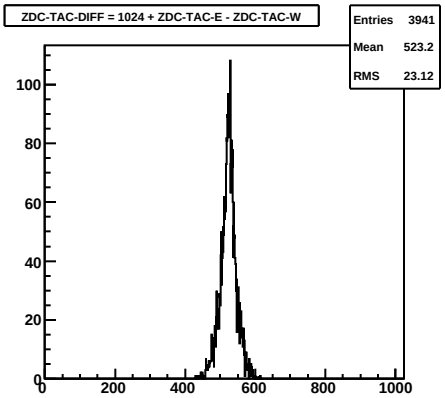

Entries 1994901
VPD East ADC Sum
VPD West ADC Sum

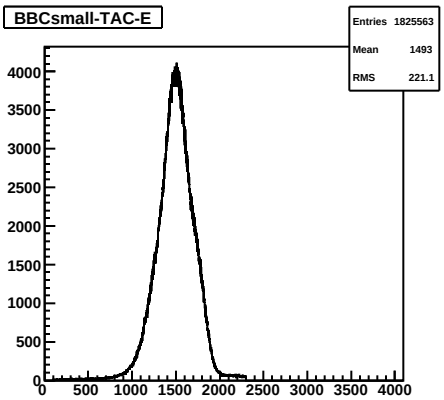

Entries 1994901
ZDC East ADC Sum Att
ZDC West ADC Sum Att

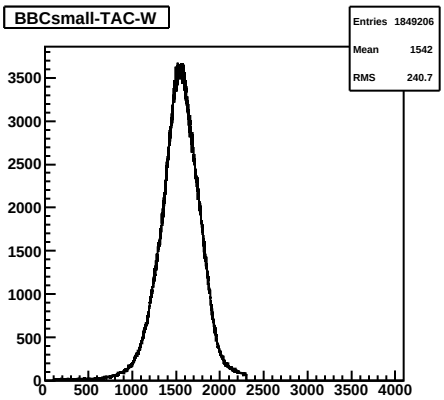

Entries 1994901
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1994901
BBC-L TAC Diff
VPD TAC Diff
Entries 1994901
BBC-L TAC Diff
ZDC TAC Diff
Entries 1994901
BBC-S TAC Diff
VPD TAC Diff
Entries 1994901
BBC-S TAC Diff
ZDC TAC Diff
Entries 1994901
VPD TAC Diff
ZDC TAC Diff

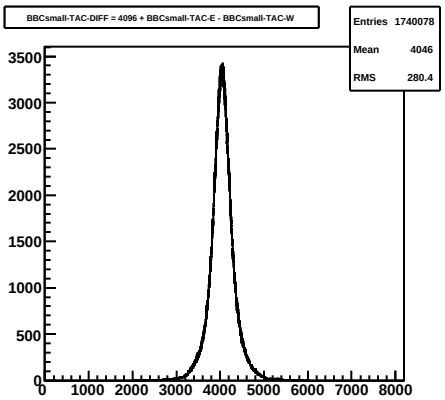

ZDC-TAC-E
Entries 65494
Mean 243
RMS 35.05

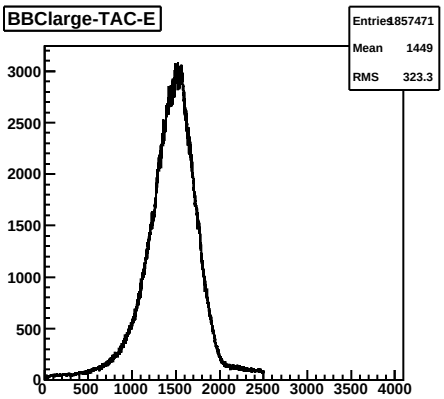

ZDC-TAC-W
Entries 56206
Mean 218.6
RMS 40.68

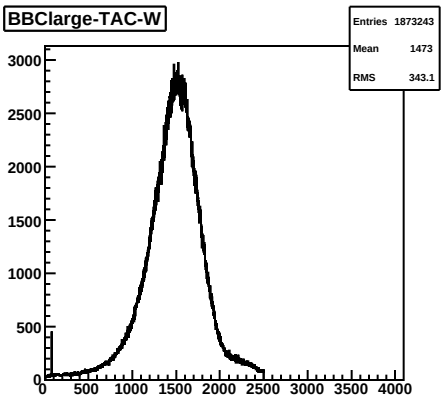

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 3941
Mean 523.2
RMS 23.12

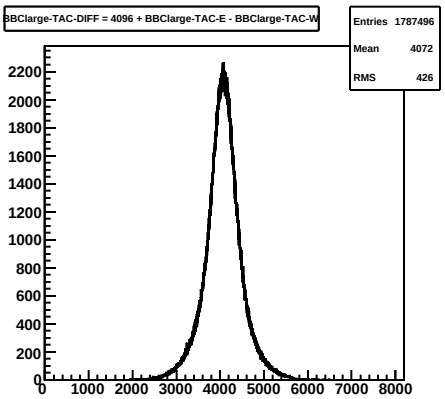

BBCsmall-TAC-E
Entries 1825563
Mean 1493
RMS 221.1

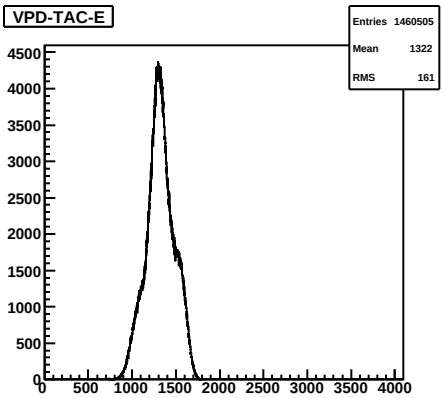

BBCsmall-TAC-W
Entries 1849206
Mean 1542
RMS 240.7

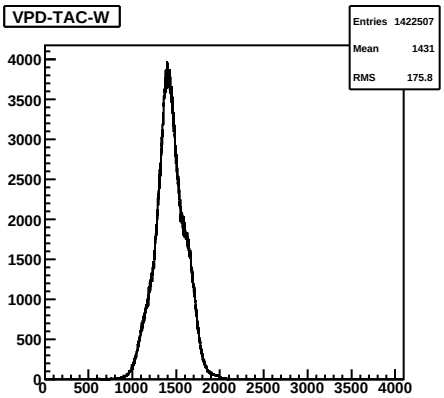

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 1740078
Mean 4046
RMS 280.4

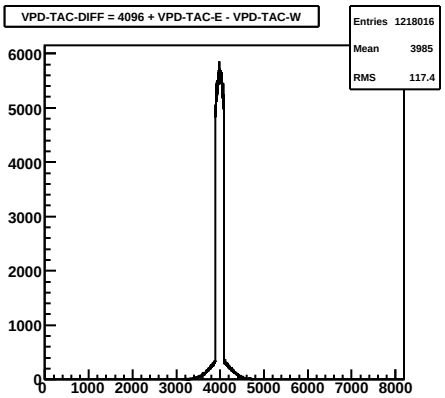

BBClarge-TAC-E
Entries 1857471
Mean 1449
RMS 323.3

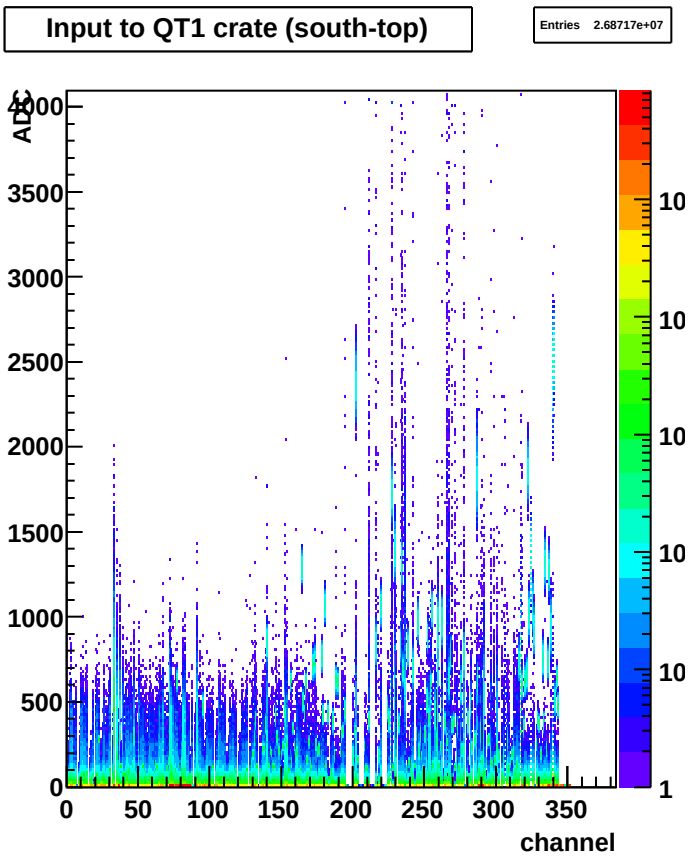

BBClarge-TAC-W
Entries 1873243
Mean 1473
RMS 343.1

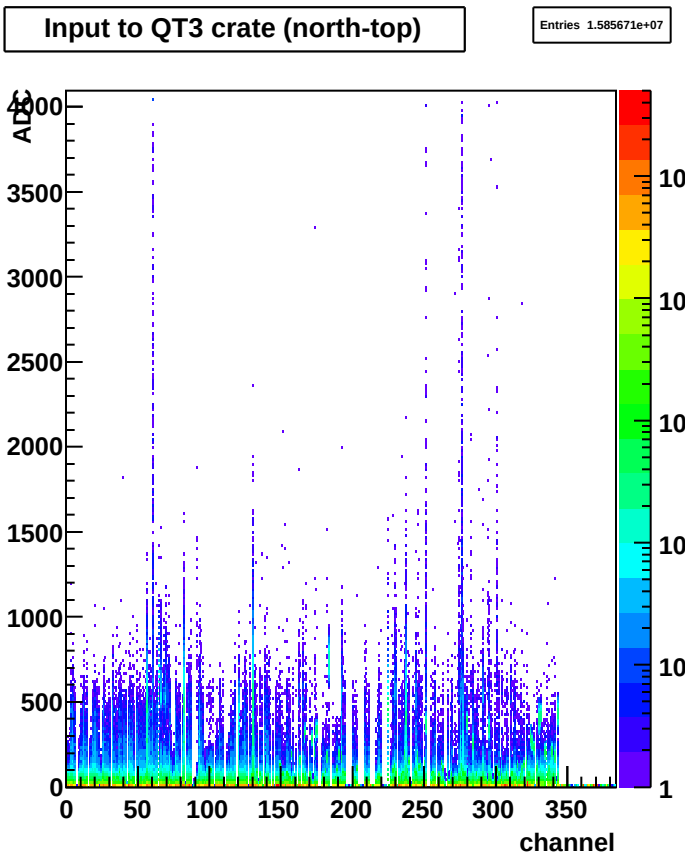

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 1787496
Mean 4072
RMS 426

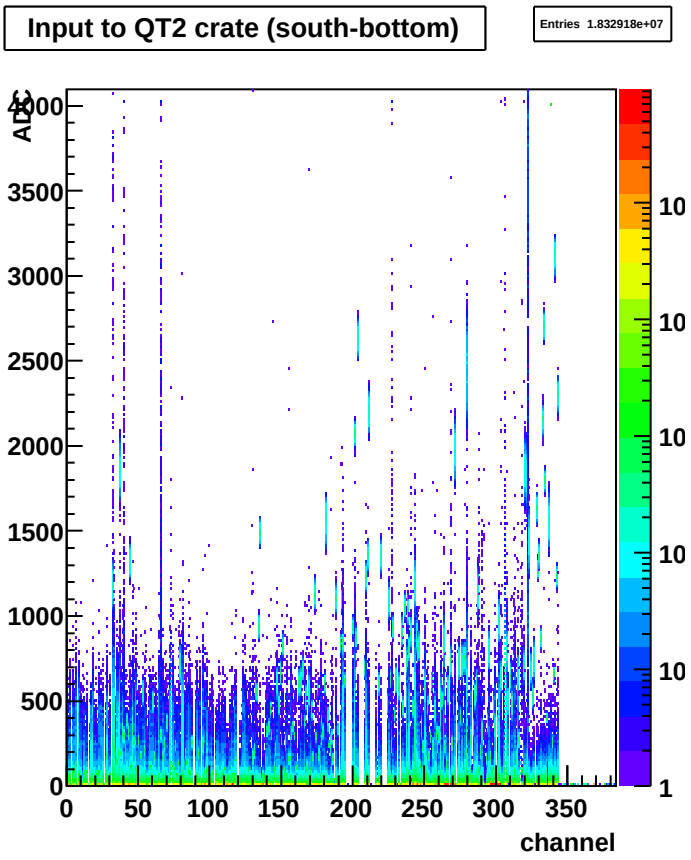

VPD-TAC-E
Entries 1460505
Mean 1322
RMS 161

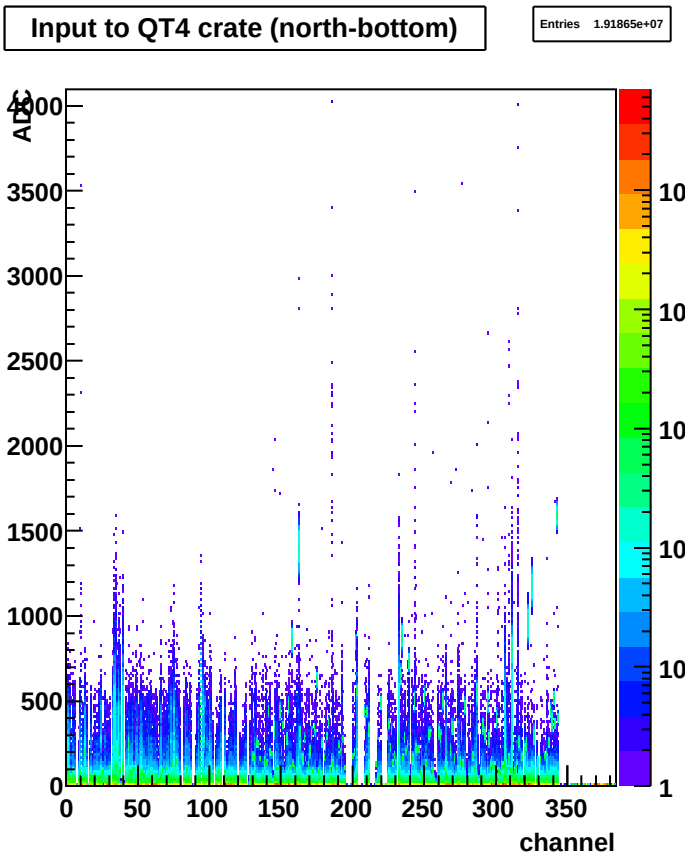

VPD-TAC-W
Entries 1422507
Mean 1431
RMS 175.8

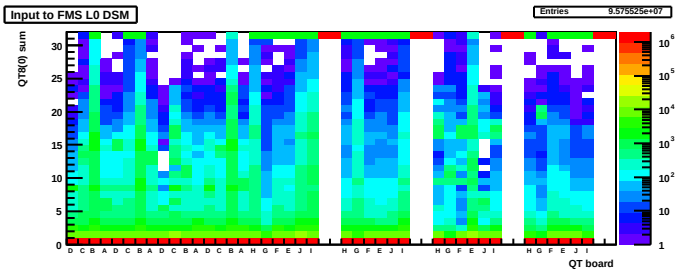

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1218016
Mean 3985
RMS 117.4

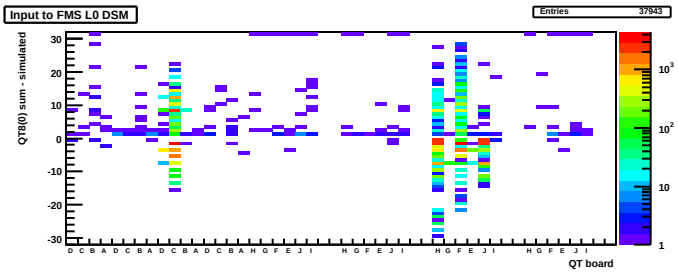

Input to QT1 crate (south-top)
Entries 2.68717e+07
ADC
channel

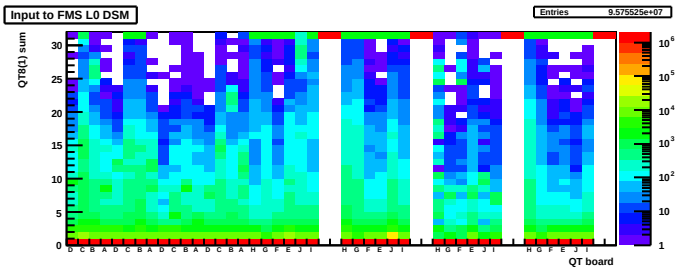

Input to QT3 crate (north-top)
Entries 1.585671e+07
ADC
channel

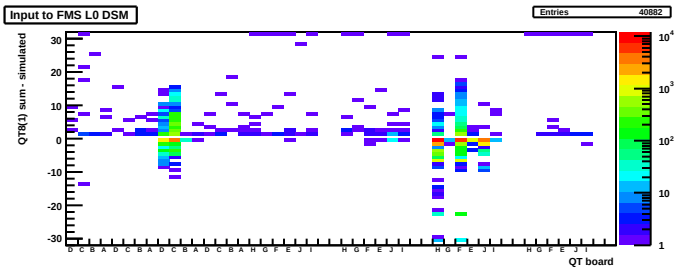

Input to QT2 crate (south-bottom)
Entries 1.832918e+07
ADC
channel

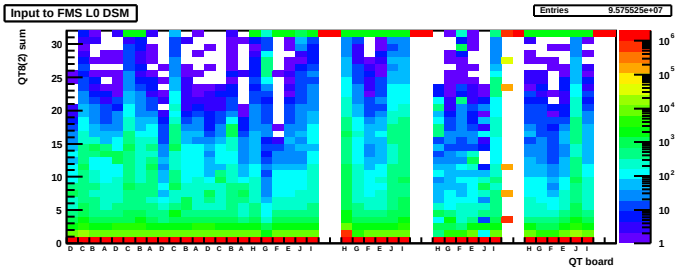

Input to QT4 crate (north-bottom)
Entries 1.91865e+07
ADC
channel

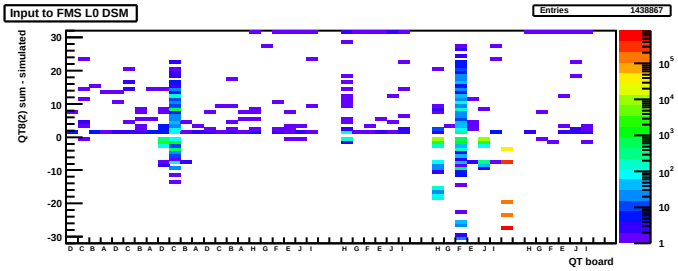

Input to FMS L0 DSM
Entries 9.575525e+07
QT8(0) sum
QT board

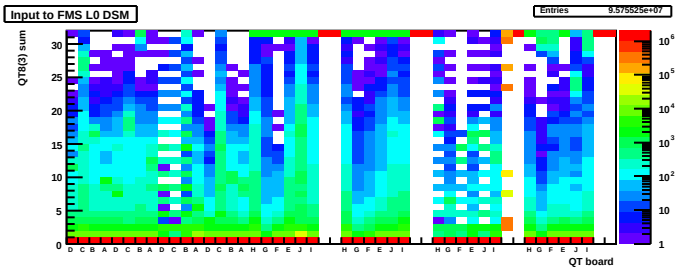

Input to FMS L0 DSM
Entries 37943
QT8(0) sum - simulated
QT board

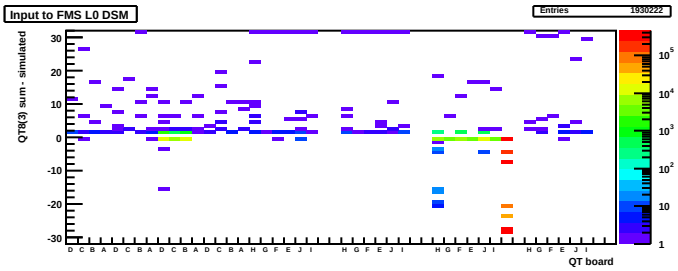

Input to FMS L0 DSM
Entries 9.575525e+07
QT8(1) sum
QT board

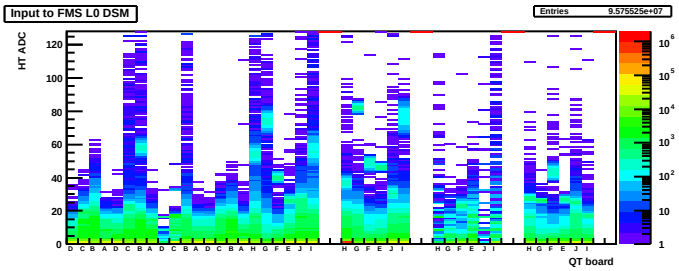

Input to FMS L0 DSM
Entries 40882
QT8(1) sum - simulated
QT board

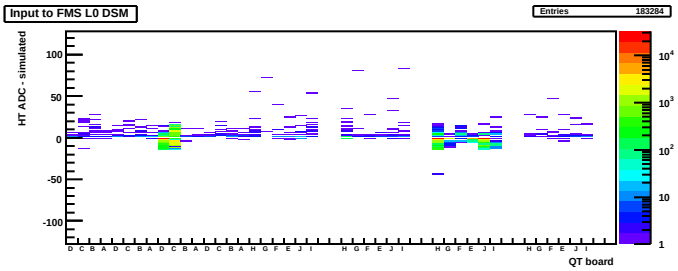

Input to FMS L0 DSM
Entries 9.575525e+07
QT8(2) sum
QT board

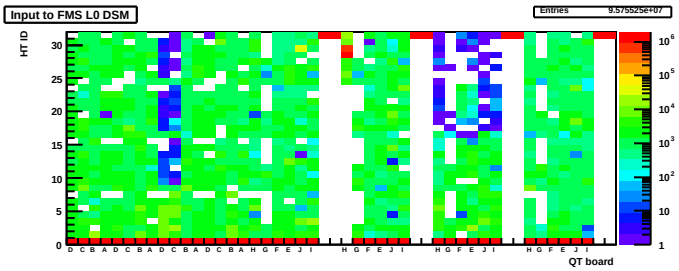

Input to FMS L0 DSM
Entries 1438867
QT8(2) sum - simulated
QT board

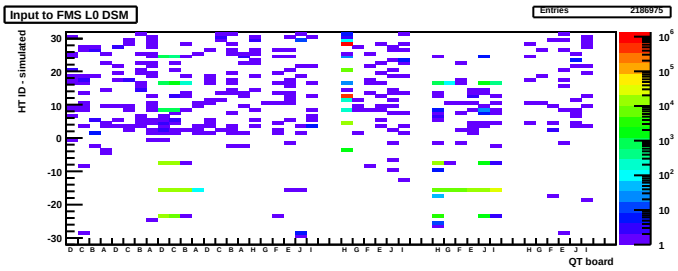

Input to FMS L0 DSM
Entries 9.575525e+07
QT8(3) sum
QT board

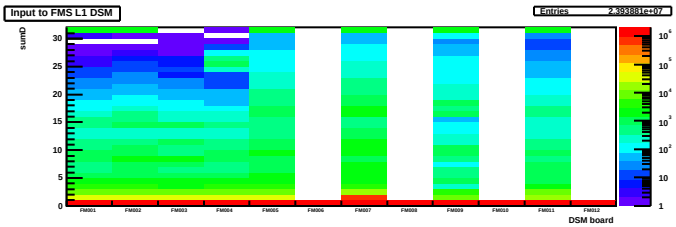

Input to FMS L0 DSM
Entries 1930222
QT8(3) sum - simulated
QT board

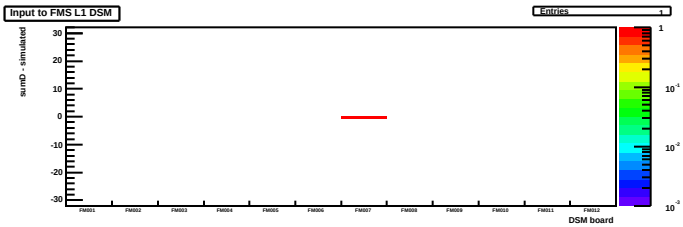

Input to FMS L0 DSM
Entries 9.575525e+07
HT ADC
QT board

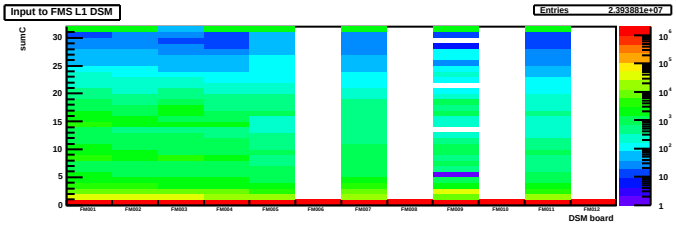

Input to FMS L0 DSM
Entries 183284
HT ADC - simulated
QT board

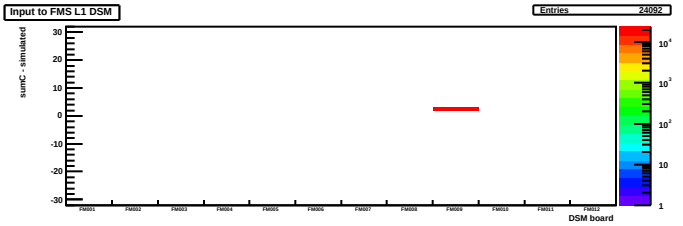

Input to FMS L0 DSM
Entries 9.575525e+07
HT ID
QT board

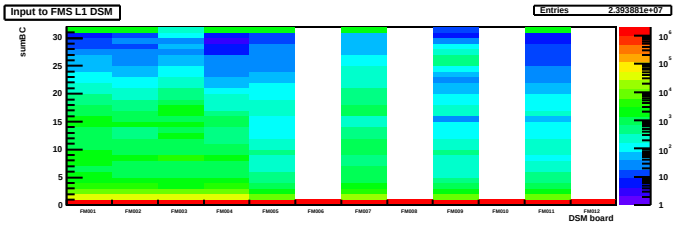

Input to FMS L0 DSM
Entries 2186975
HT ID - simulated
QT board

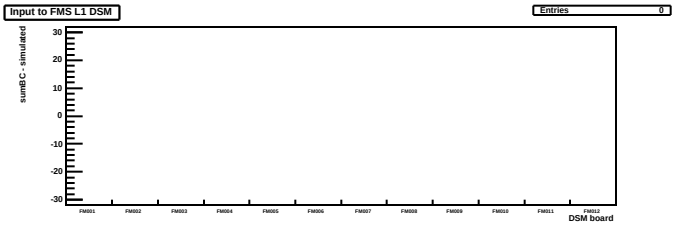

Input to FMS L1 DSM
Entries 2.393881e+07
sumD
DSM board

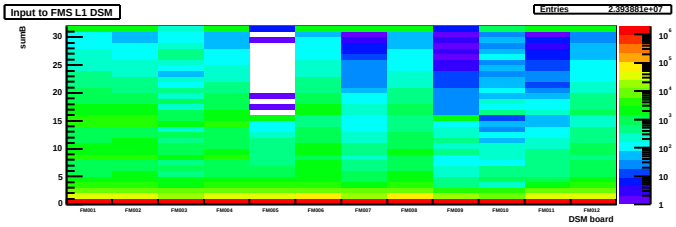

Input to FMS L1 DSM
Entries 1
sumD - simulated
DSM board

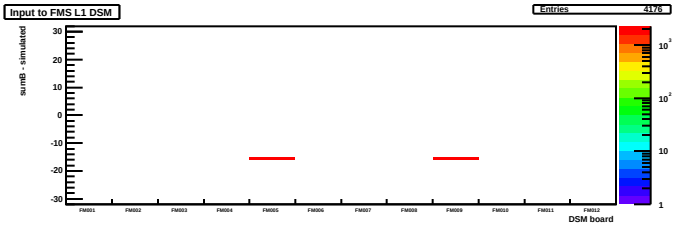

Input to FMS L1 DSM
Entries 2.393881e+07
sumC
DSM board

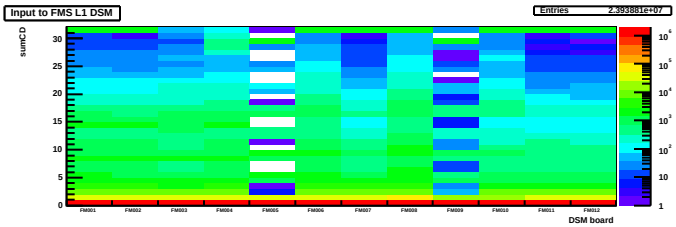

Input to FMS L1 DSM
Entries 24092
sumC - simulated
DSM board

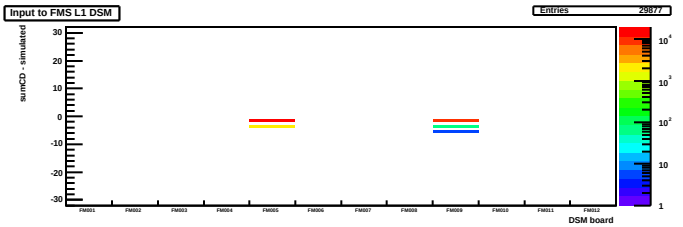

Input to FMS L1 DSM
Entries 2.393881e+07
sumBC
DSM board

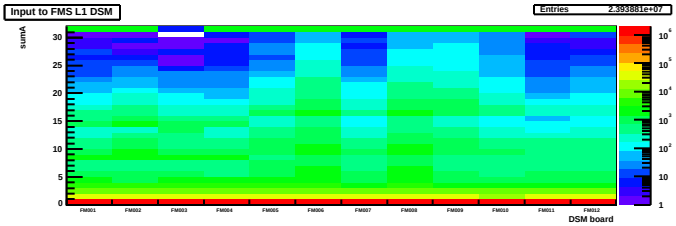

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

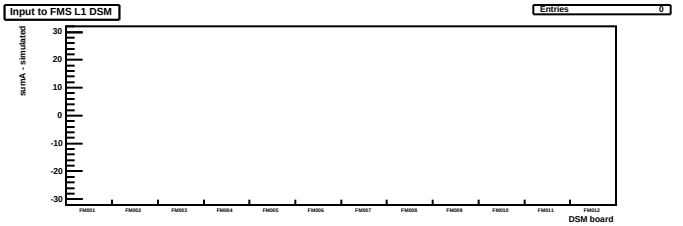

Input to FMS L1 DSM
Entries 2.393881e+07
sumB
DSM board

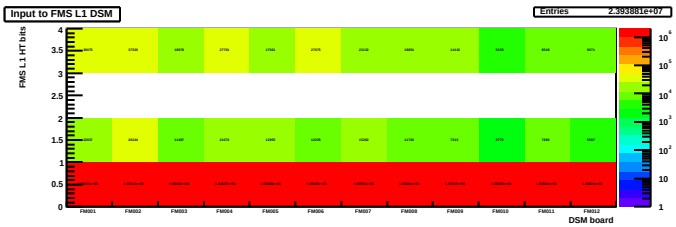

Input to FMS L1 DSM
Entries 4176
sumB - simulated
DSM board

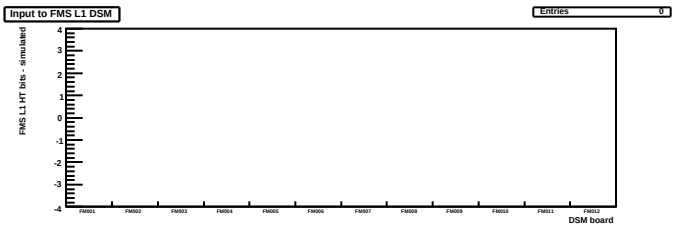

Input to FMS L1 DSM
Entries 2.393881e+07
sumCD
DSM board

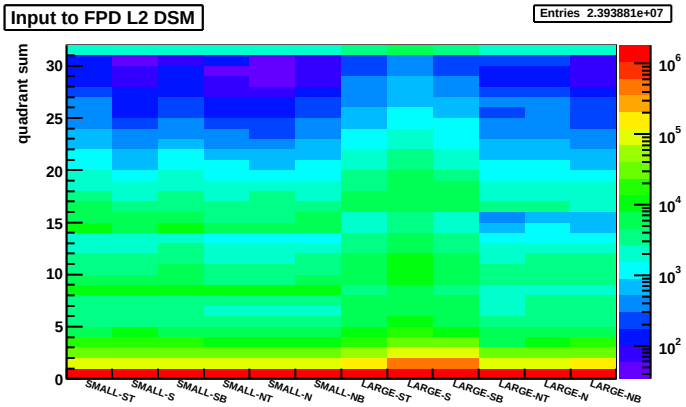

Input to FMS L1 DSM
Entries 29877
sumCD - simulated
DSM board

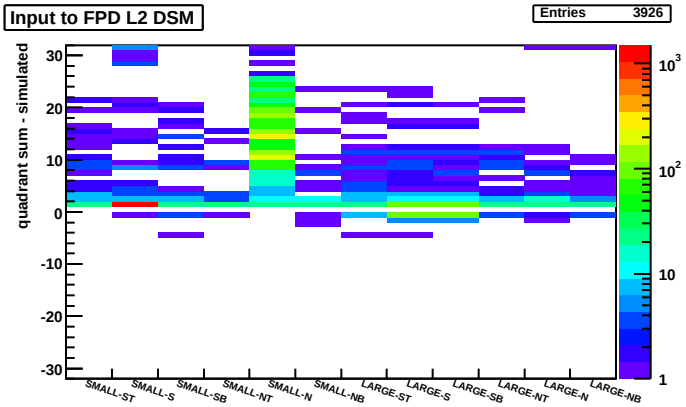

Input to FMS L1 DSM
Entries 2.393881e+07
sumA
DSM board

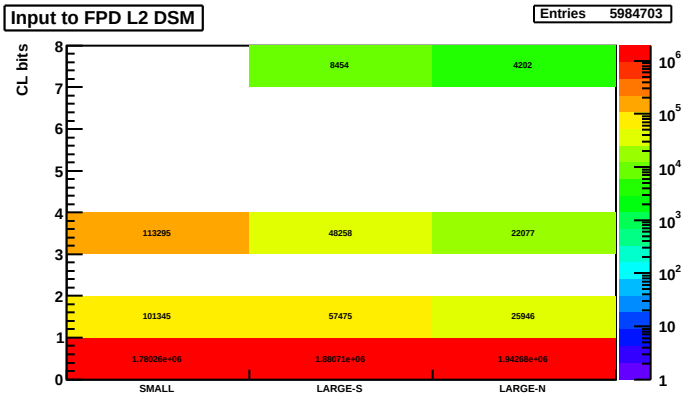

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

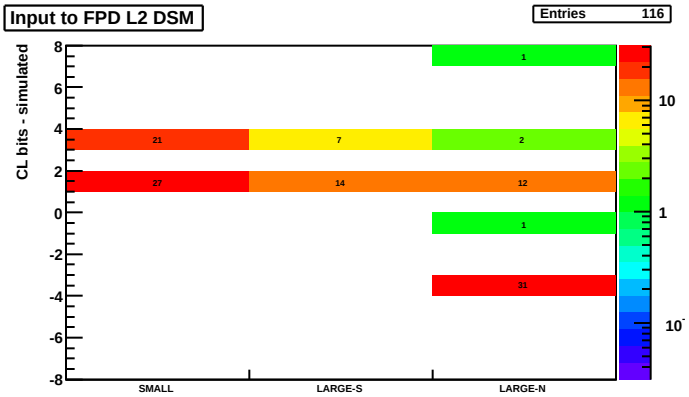

Input to FMS L1 DSM
Entries 2.393881e+07
FMS L1 HT bits
DSM board

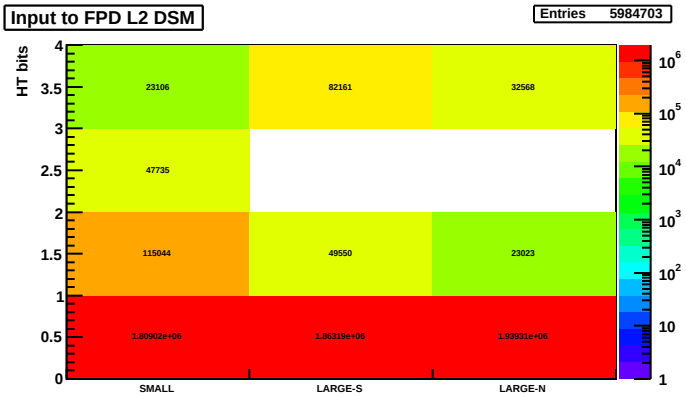

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

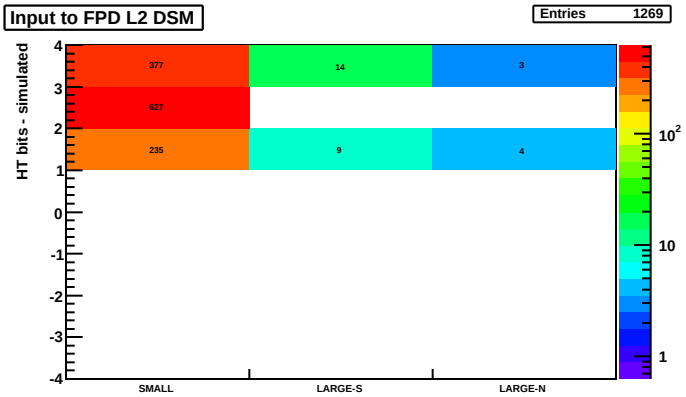

Input to FPD L2 DSM
Entries 2.393881e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

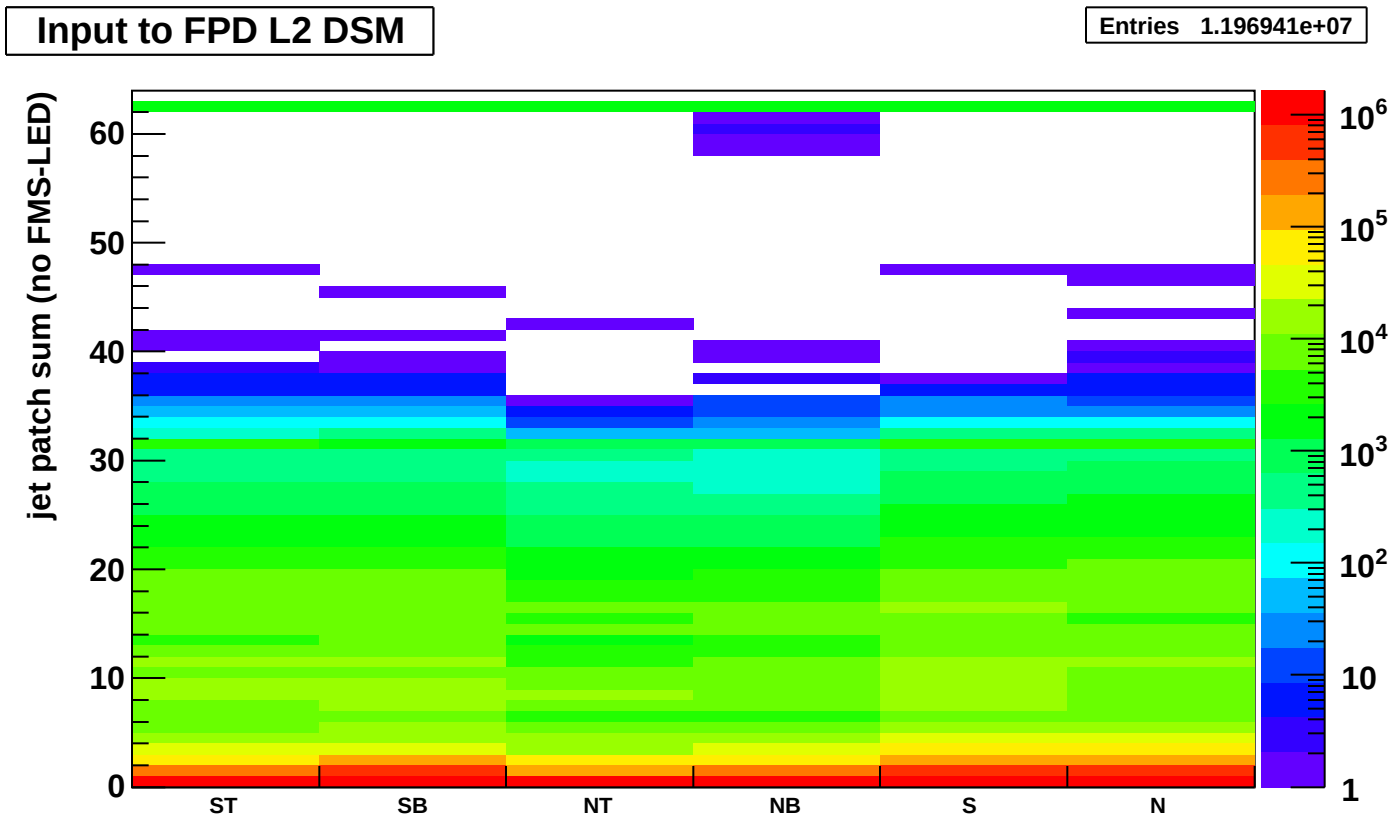

Input to FPD L2 DSM
Entries 3926
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

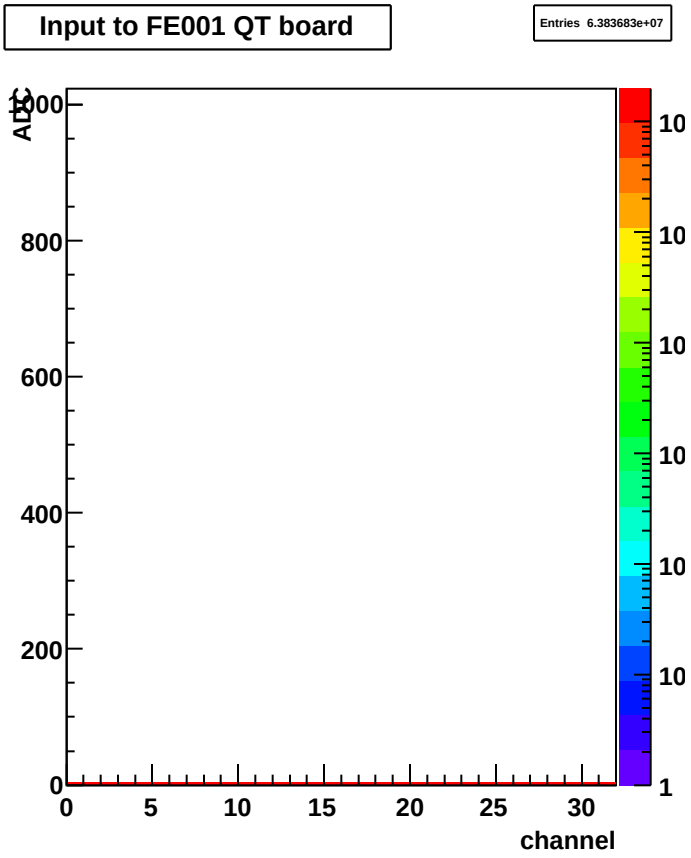

Input to FPD L2 DSM
Entries 5984703
CL bits
8454
4202
113295
48258
22077
101345
57475
25946
1.78026e+06
1.88071e+06
1.94268e+06
SMALL
LARGE-S
LARGE-N

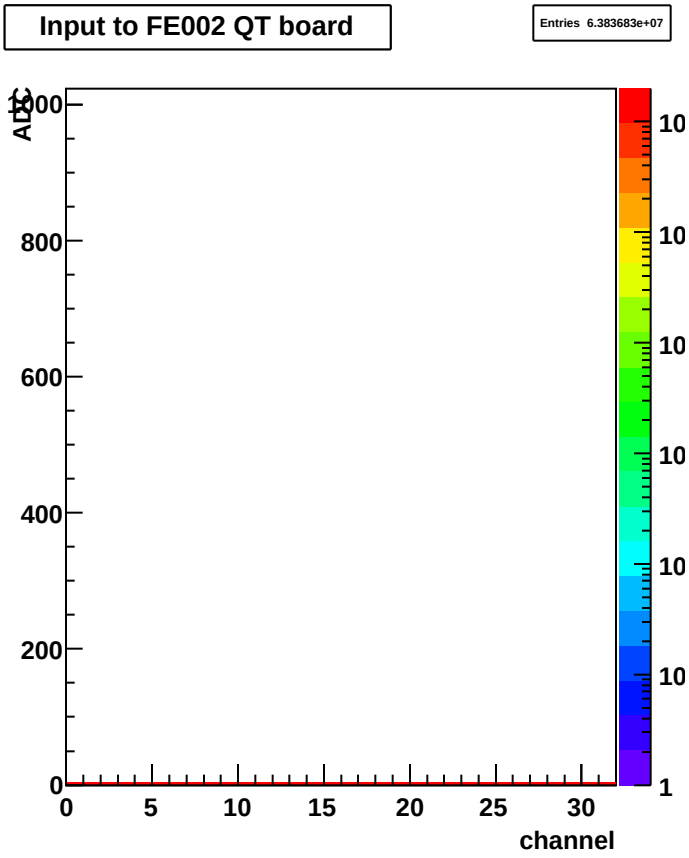

Input to FPD L2 DSM
Entries 116
CL bits - simulated
1
21
7
2
27
14
12
1
31
SMALL
LARGE-S
LARGE-N

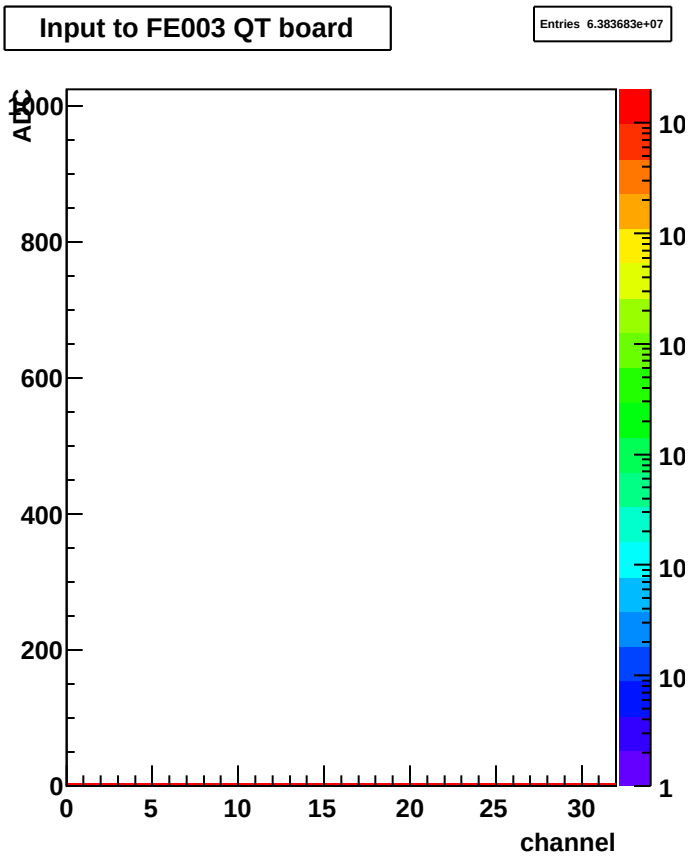

Input to FPD L2 DSM
Entries 5984703
HT bits
23106
82161
32568
47735
115044
49550
23023
1.80902e+06
1.86319e+06
1.93931e+06
SMALL
LARGE-S
LARGE-N

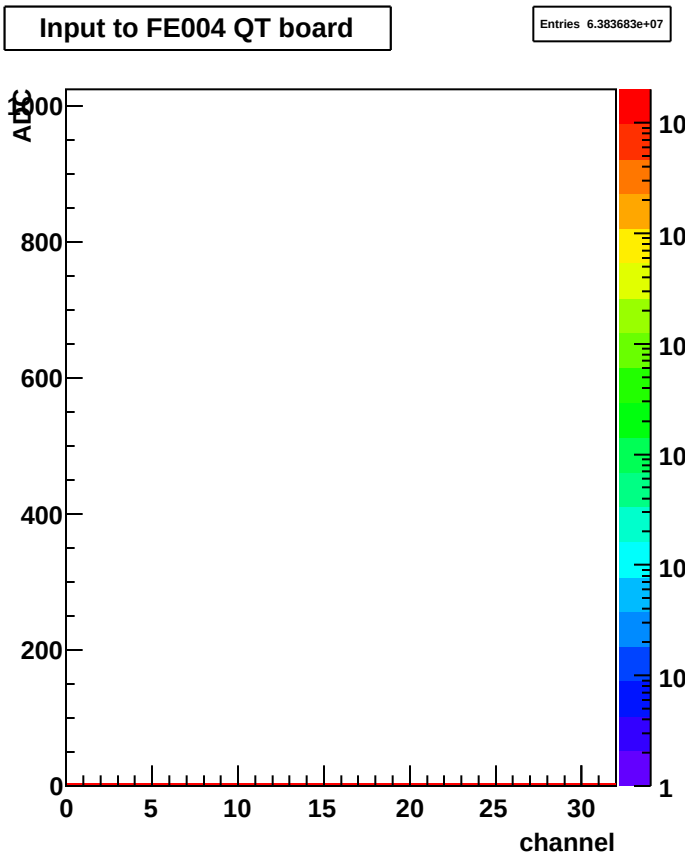

Input to FPD L2 DSM
Entries 1269
HT bits - simulated
377
14
3
627
235
9
4
SMALL
LARGE-S
LARGE-N

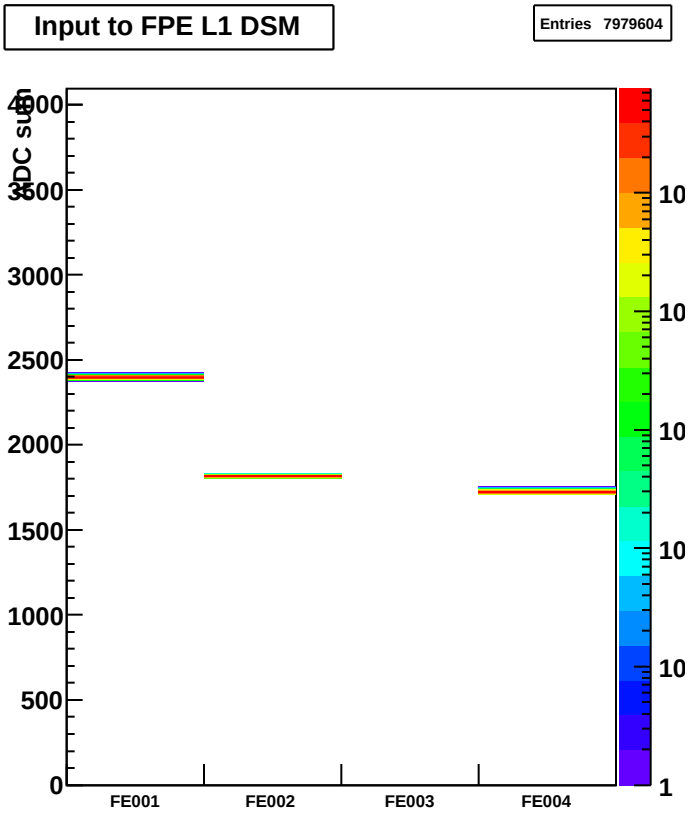

Input to FPD L2 DSM
Entries 1.196941e+07
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6

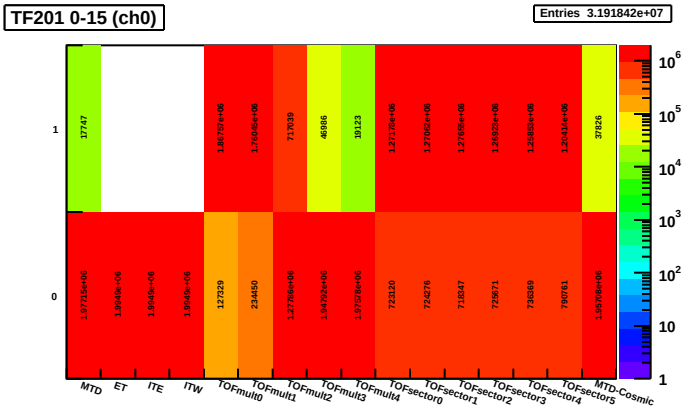

Input to FE001 QT board
Entries 6.383683e+07
ADC
channel

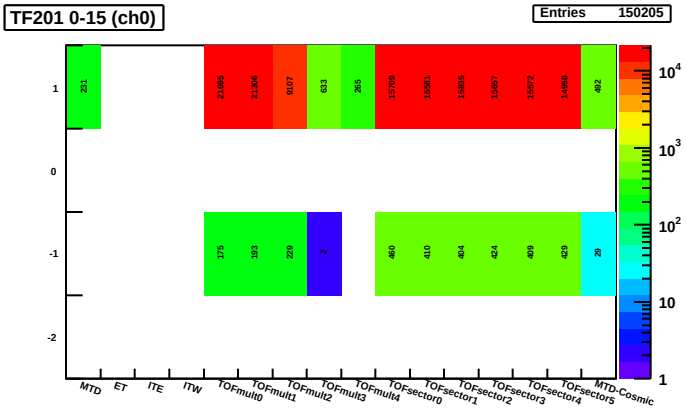

Input to FE002 QT board
Entries 6.383683e+07
ADC
channel

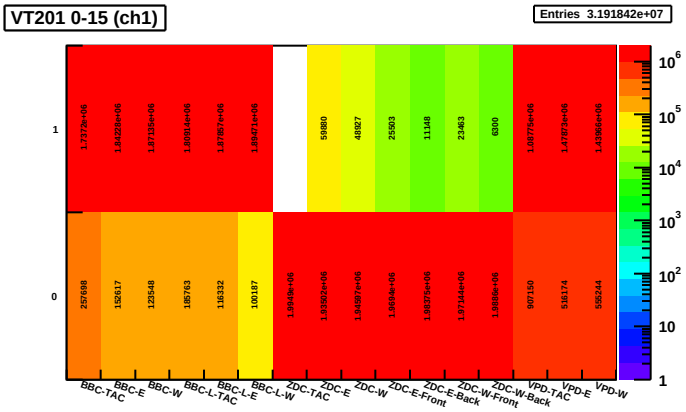

Input to FE003 QT board
Entries 6.383683e+07
ADC
channel

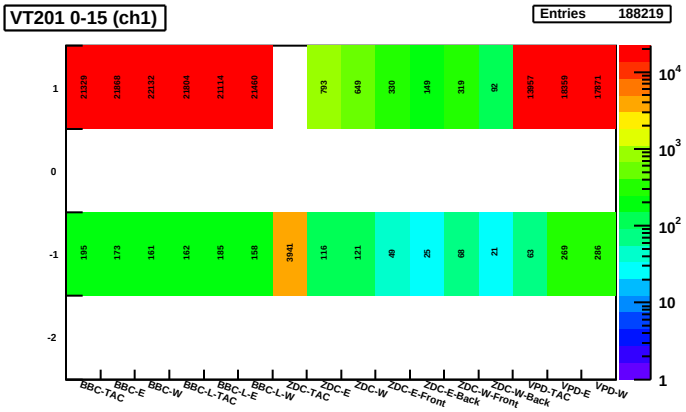

Input to FE004 QT board
Entries 6.383683e+07
ADC
channel

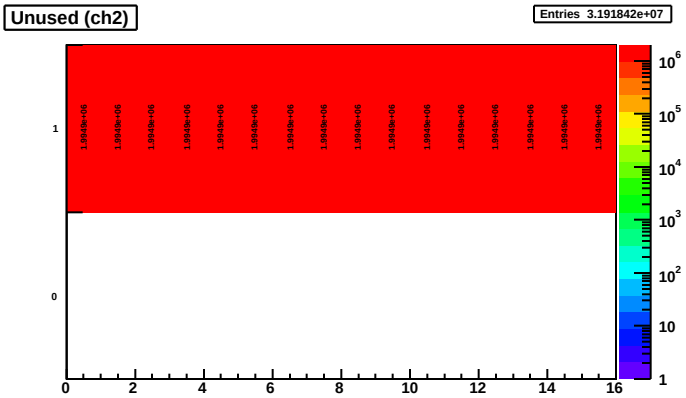

Input to FPE L1 DSM
Entries 7979604
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

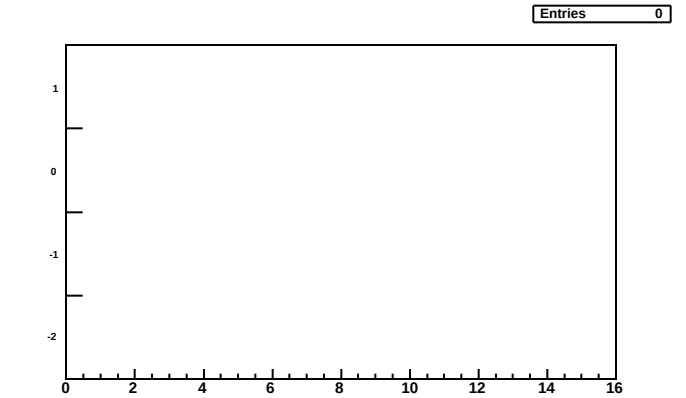

TF201 0-15 (ch0)
Entries 3.191842e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

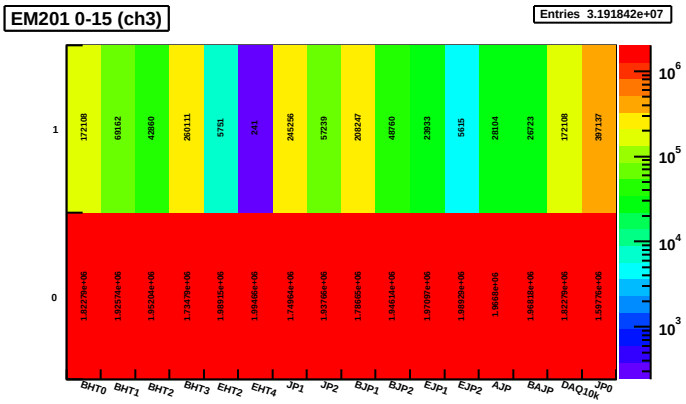

TF201 0-15 (ch0)
Entries 150205
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

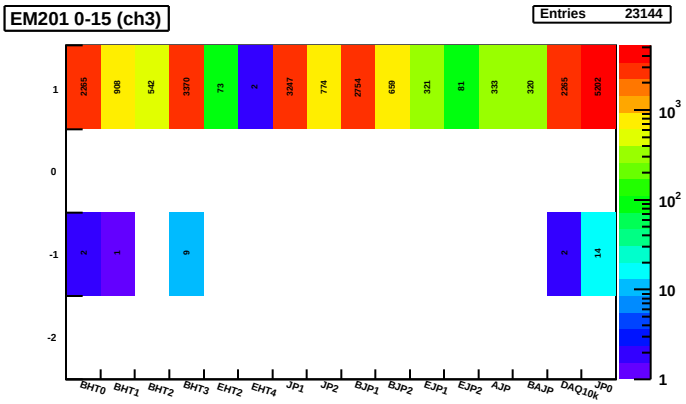

VT201 0-15 (ch1)
Entries 3.191842e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 188219
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

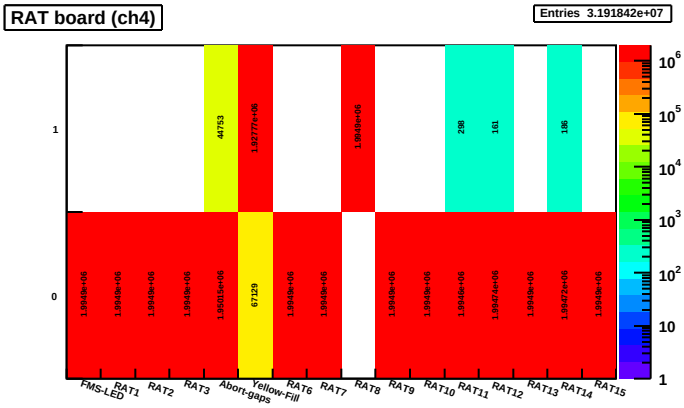

Unused (ch2)
Entries 3.191842e+07

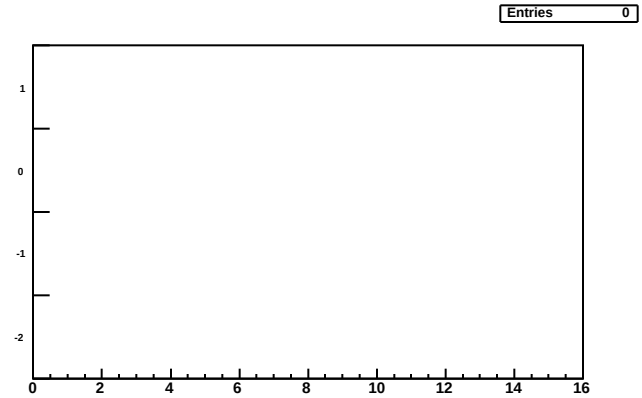

Entries 0


EM201 0-15 (ch3)
Entries 3.191842e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

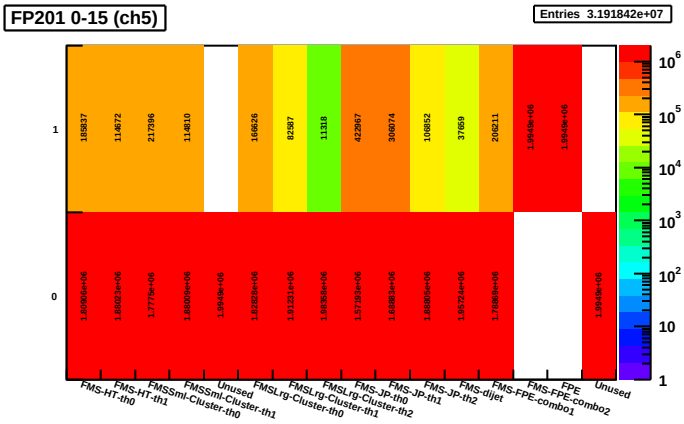

EM201 0-15 (ch3)
Entries 23144
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

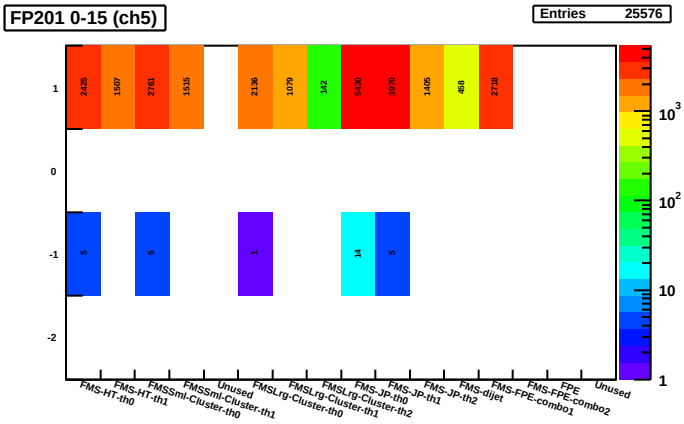




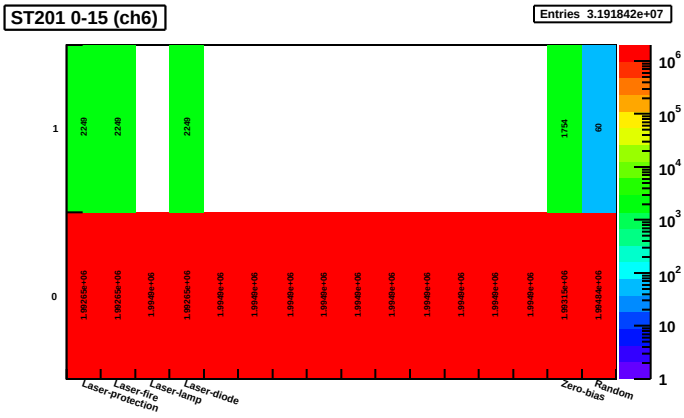
FP201 0-15 (ch5)

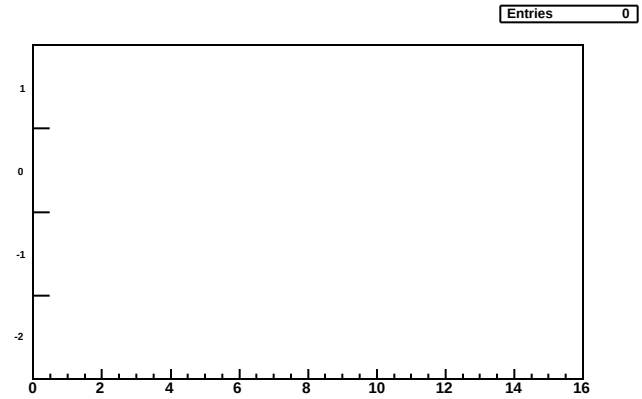
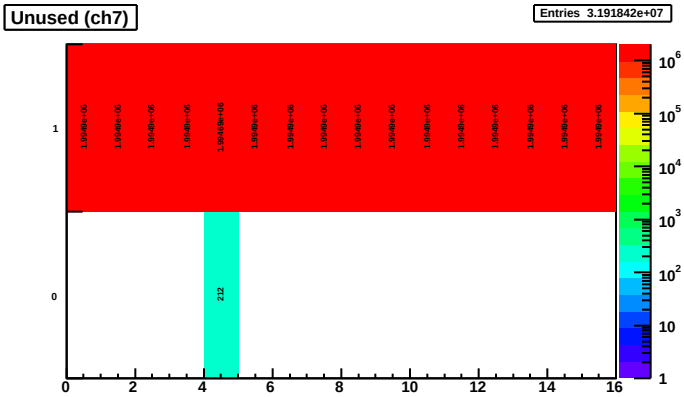
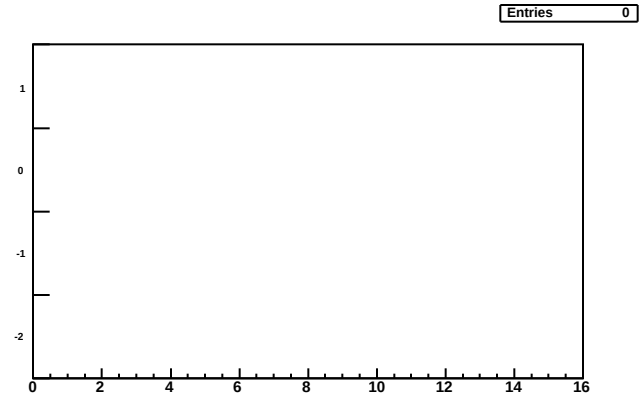


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)