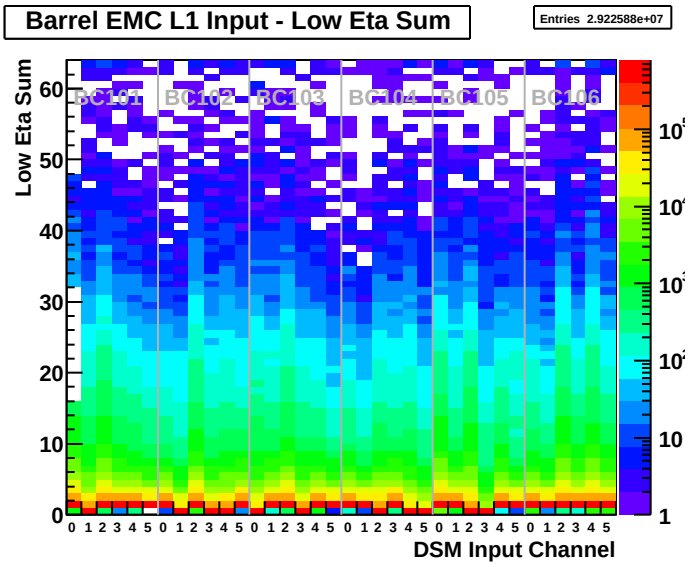
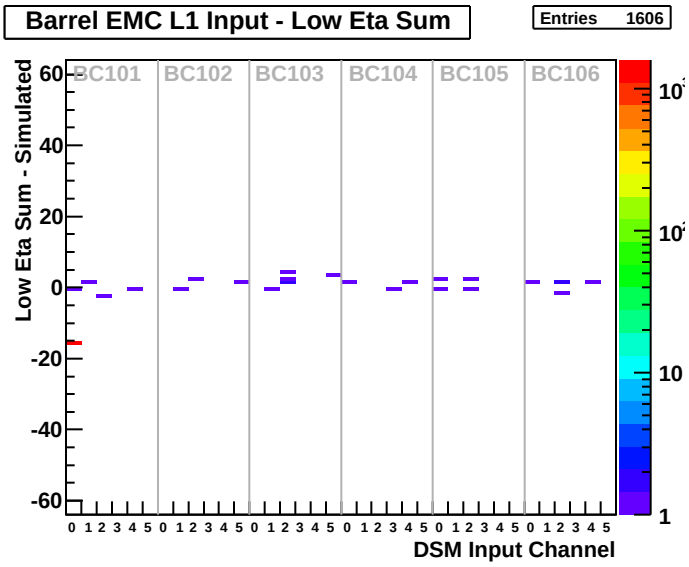
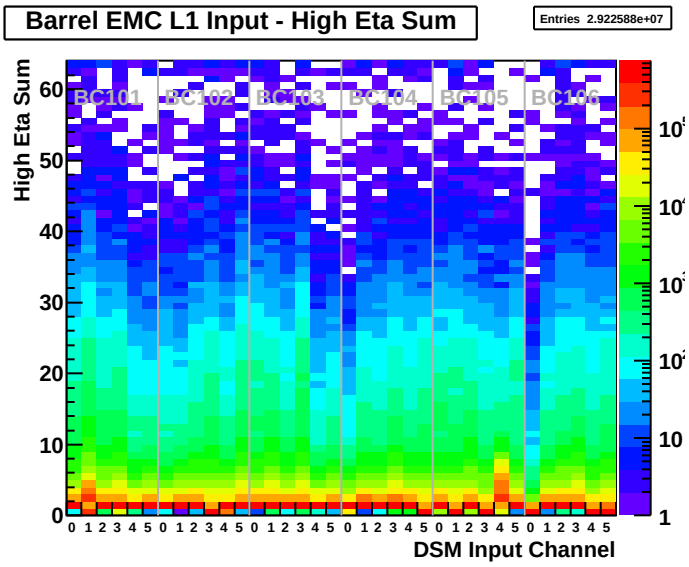
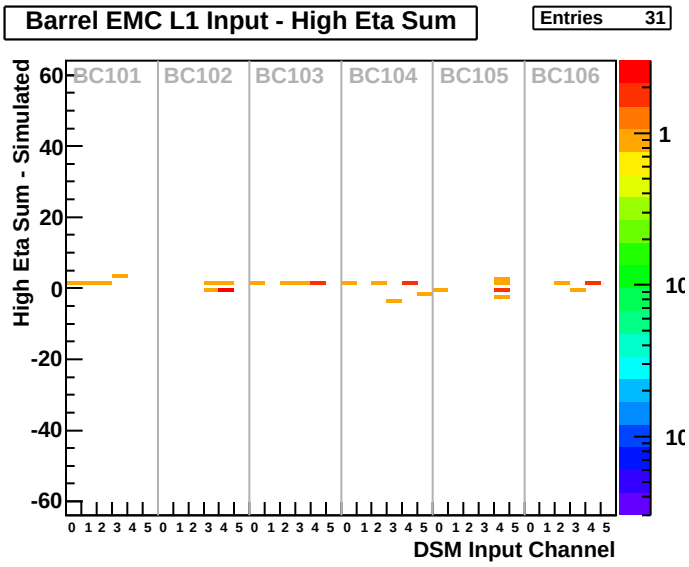
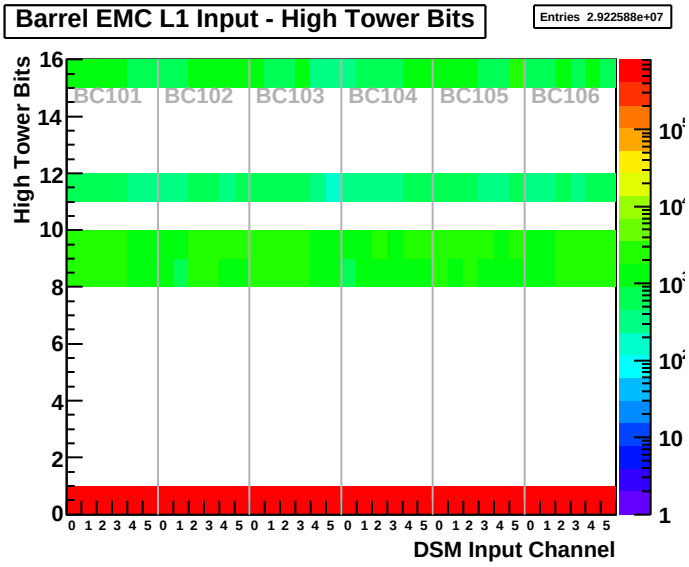
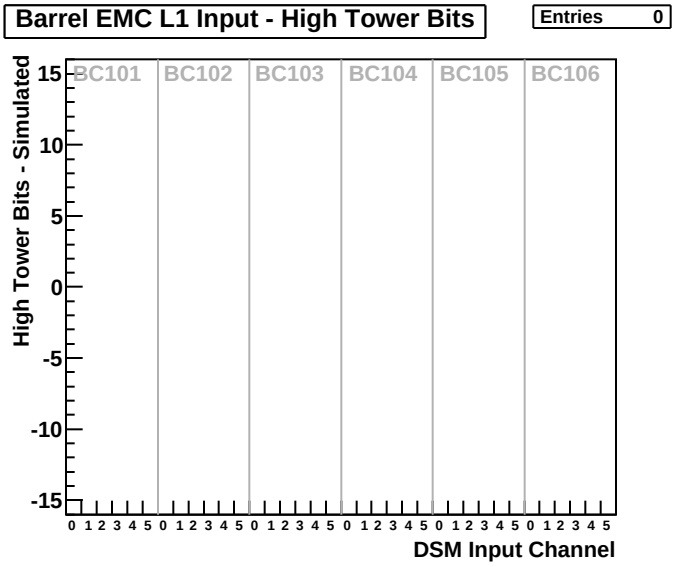

Barrel EMC L1 Input - Low Eta Sum
Entries 2.922588e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

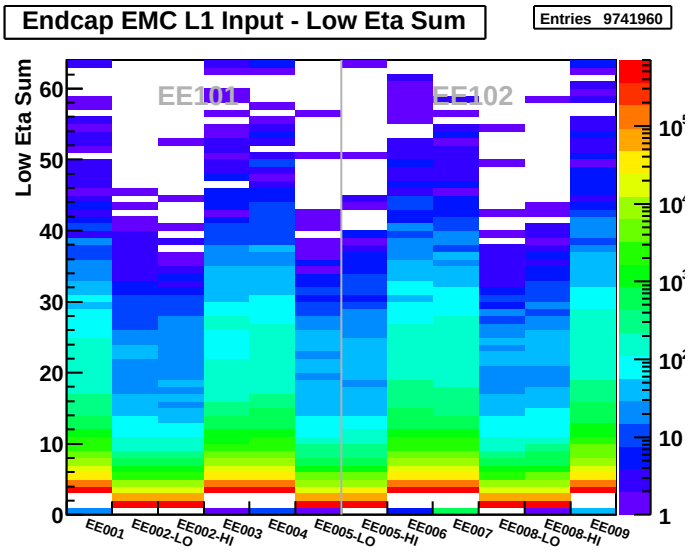

Barrel EMC L1 Input - Low Eta Sum
Entries 1606
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

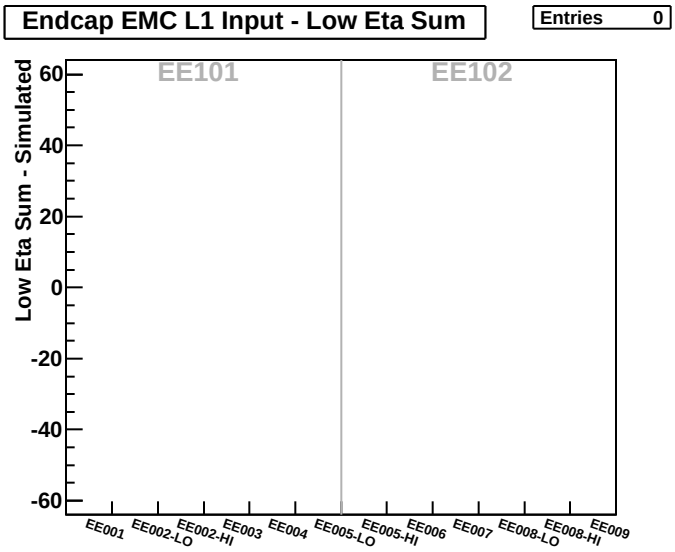

Barrel EMC L1 Input - High Eta Sum
Entries 2.922588e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

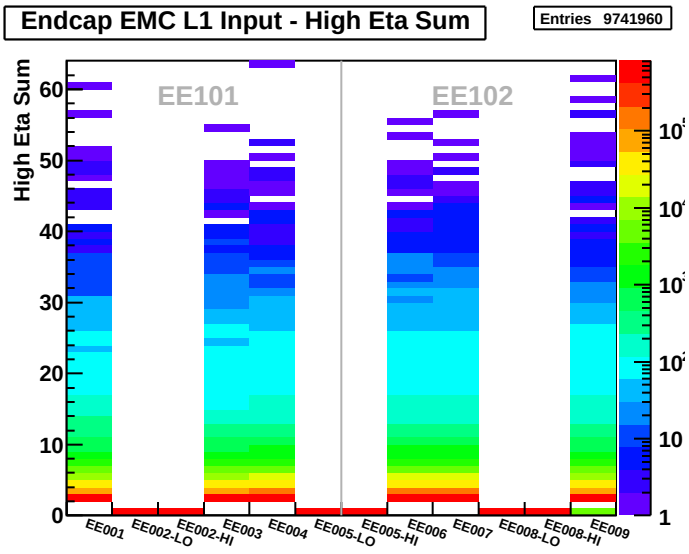

Barrel EMC L1 Input - High Eta Sum
Entries 31
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

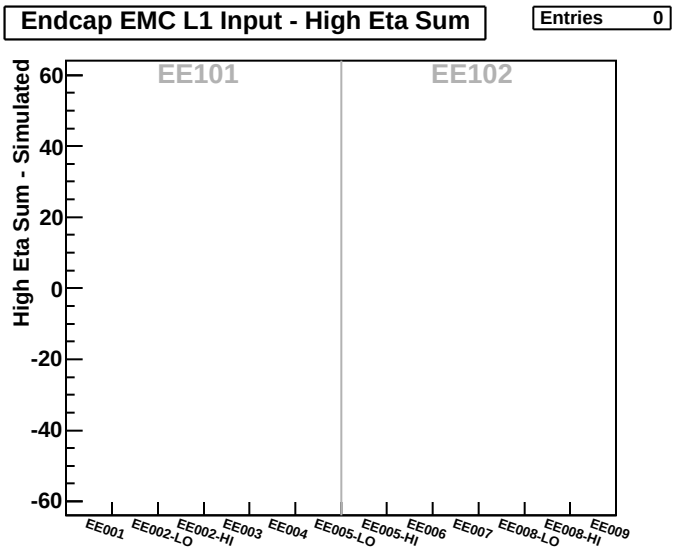

Barrel EMC L1 Input - High Tower Bits
Entries 2.922588e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

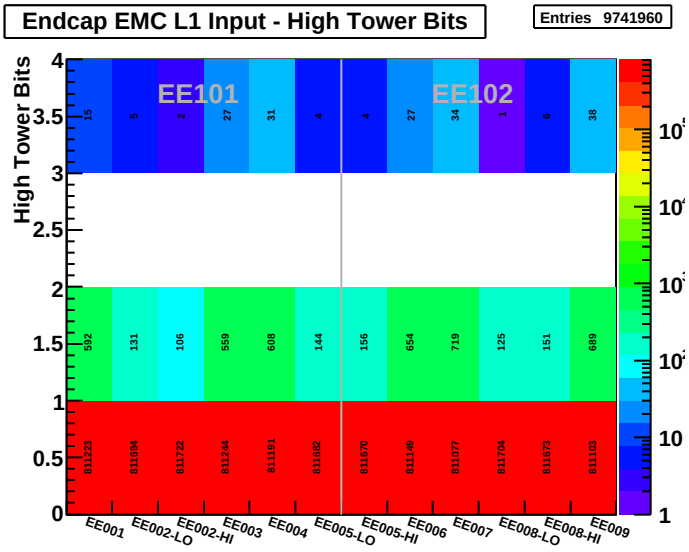

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

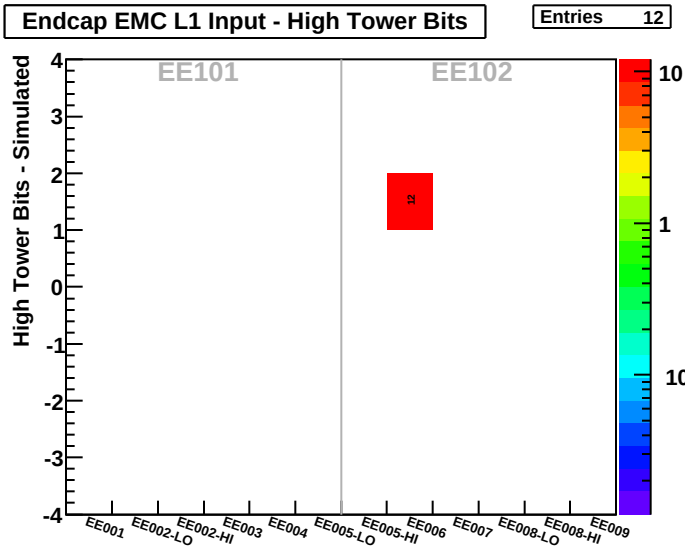

Endcap EMC L1 Input - Low Eta Sum
Entries 9741960
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

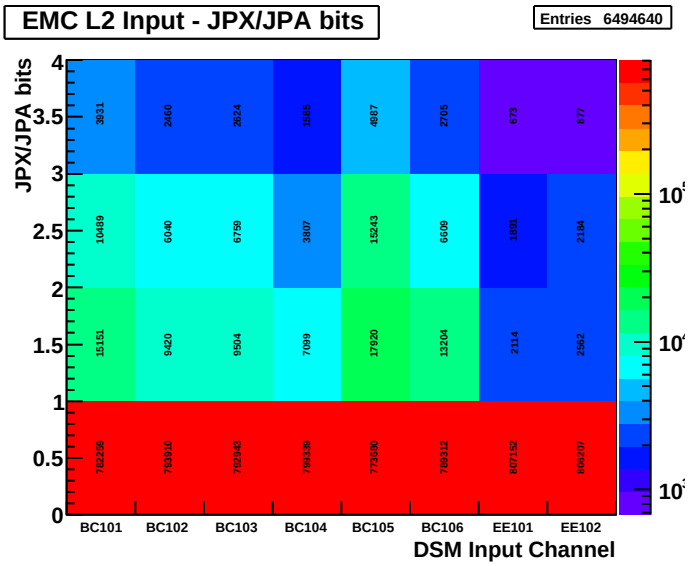

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

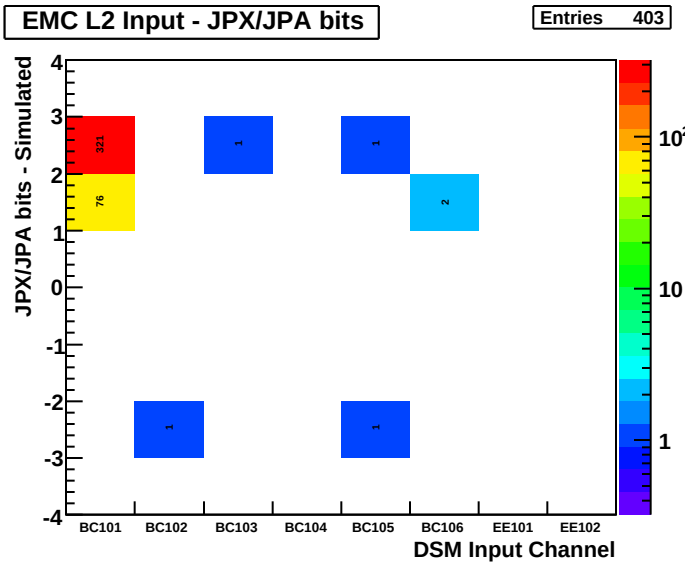

Endcap EMC L1 Input - High Eta Sum
Entries 9741960
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

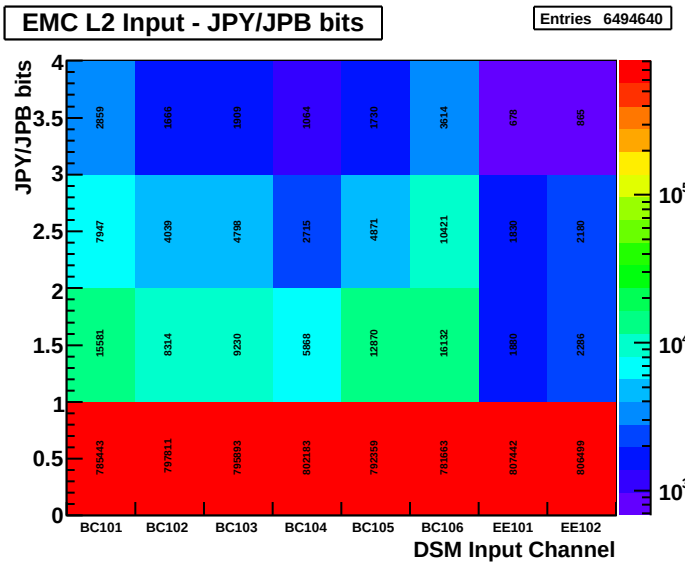

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

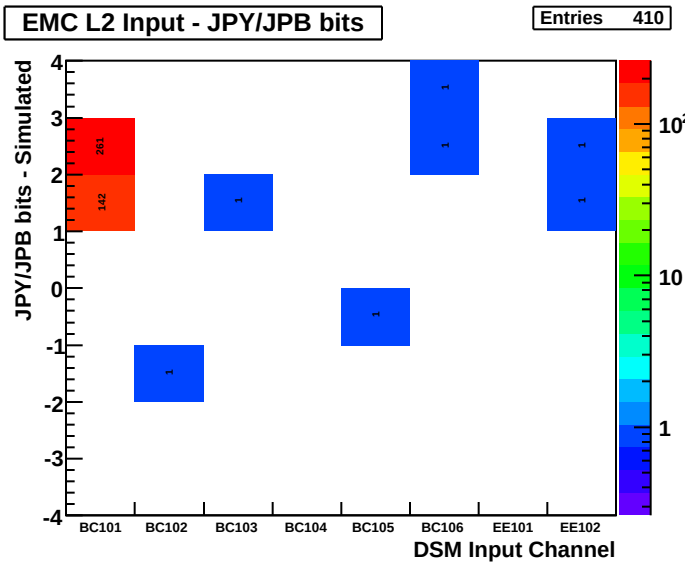

Endcap EMC L1 Input - High Tower Bits
Entries 9741960
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

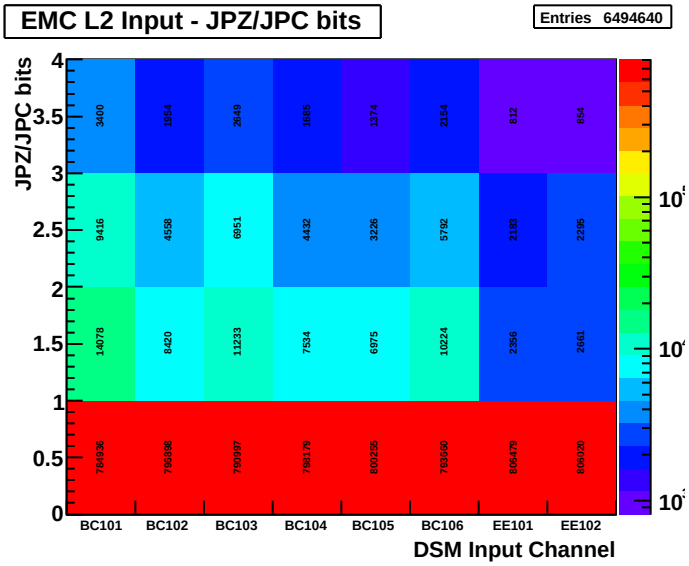

Endcap EMC L1 Input - High Tower Bits
Entries 12
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

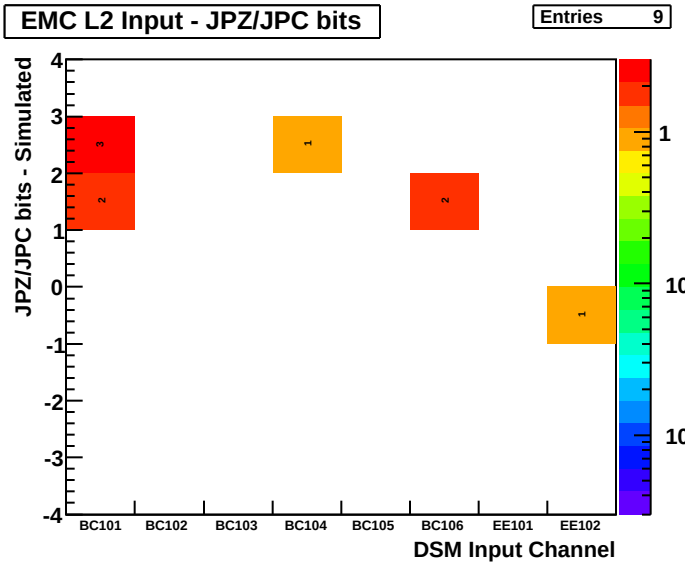

EMC L2 Input - JPX/JPA bits
Entries 6494640
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3931 2460 2624 1585 4987 2705 673 877
10489 6040 6759 3807 15243 6609 1891 2184
15151 9420 9504 7099 17920 13204 2114 2562
782259 793910 792943 799339 773680 789312 807152 806207

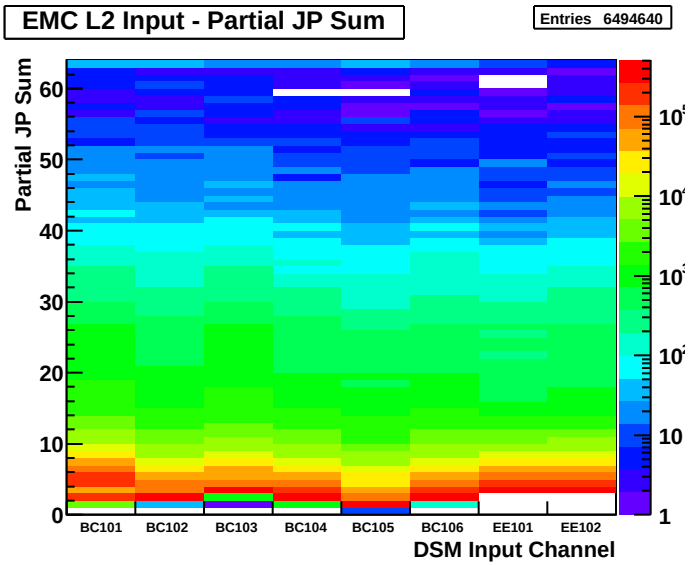

EMC L2 Input - JPX/JPA bits
Entries 403
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
321 1 1 2
76 1 1

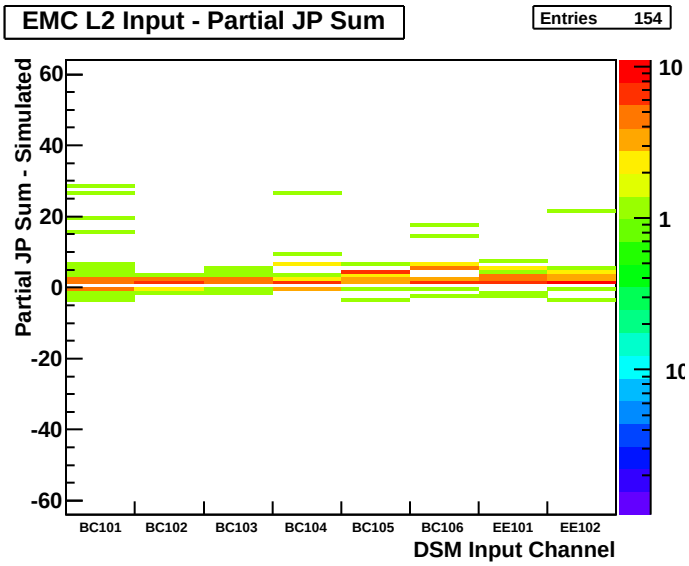

EMC L2 Input - JPY/JPB bits
Entries 6494640
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2859 1666 1909 1064 1730 3614 678 865
7947 4039 4798 2715 4871 10421 1830 2180
15581 8314 9210 5968 12870 16132 1880 2286
785443 797811 799893 802183 792359 781663 807442 806499

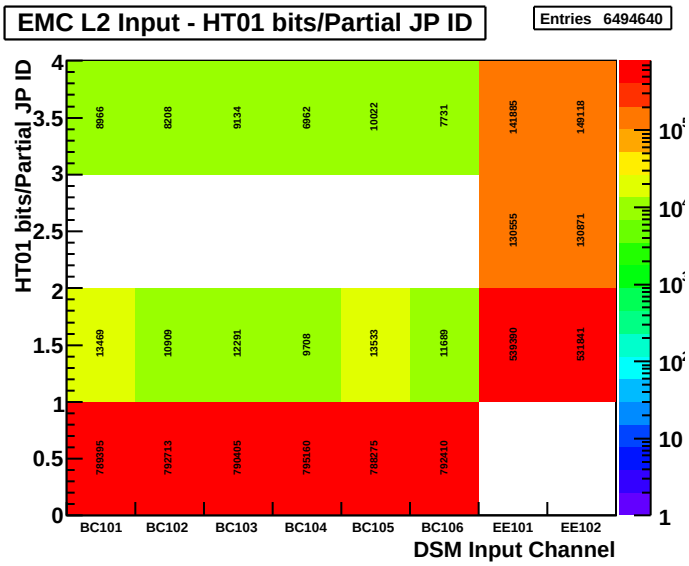

EMC L2 Input - JPY/JPB bits
Entries 410
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
261 1 1 1
142 1 1 1

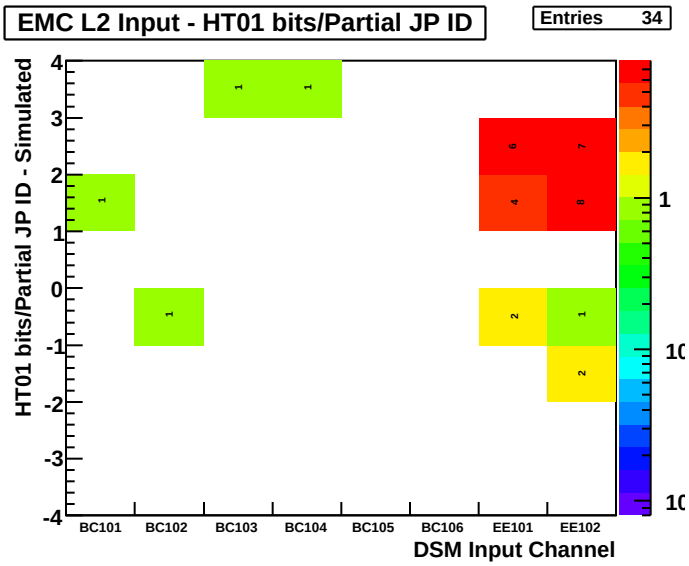

EMC L2 Input - JPZ/JPC bits
Entries 6494640
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3400 1954 2649 1685 1374 2154 812 854
9416 4558 6951 4432 3226 5792 2183 2295
14078 8420 11233 7534 6975 10224 2356 2661
794935 796898 799997 798179 800255 799560 806479 806020

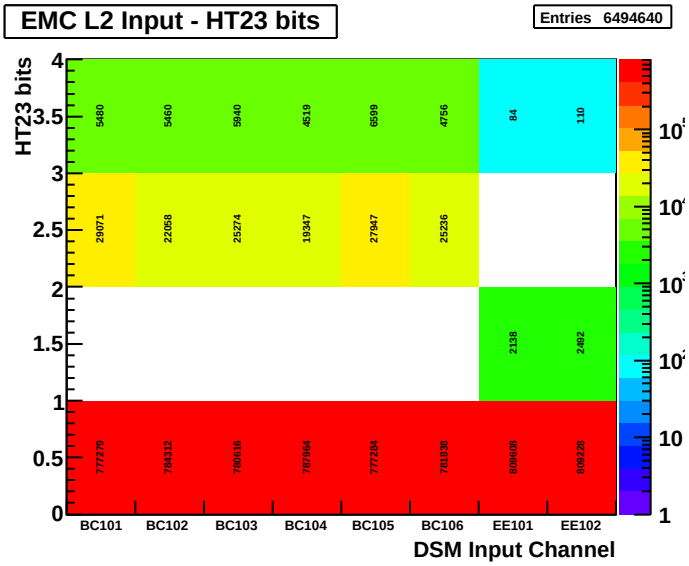

EMC L2 Input - JPZ/JPC bits
Entries 9
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 1
2 2
1

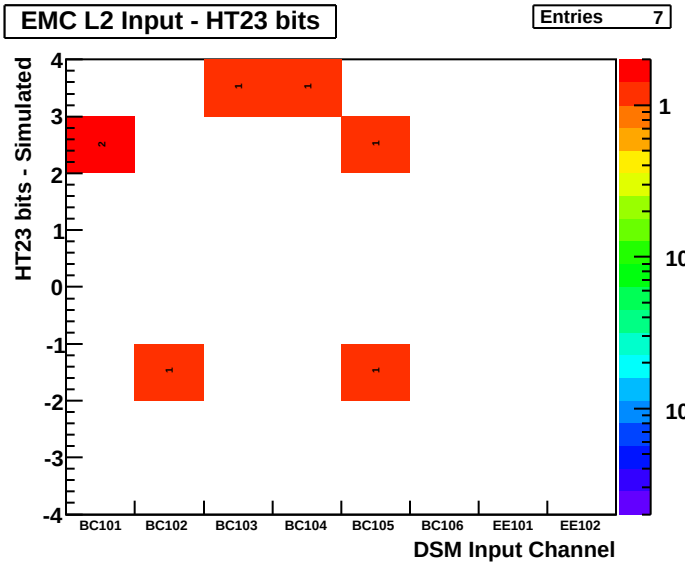

EMC L2 Input - Partial JP Sum
Entries 6494640
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

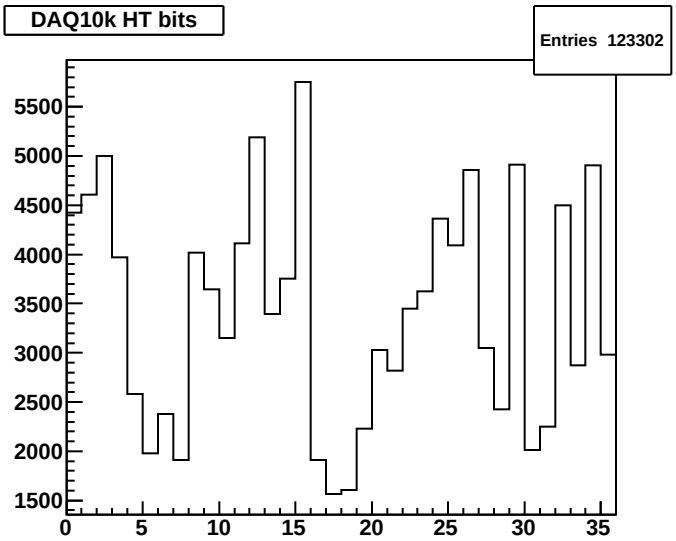

EMC L2 Input - Partial JP Sum
Entries 154
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

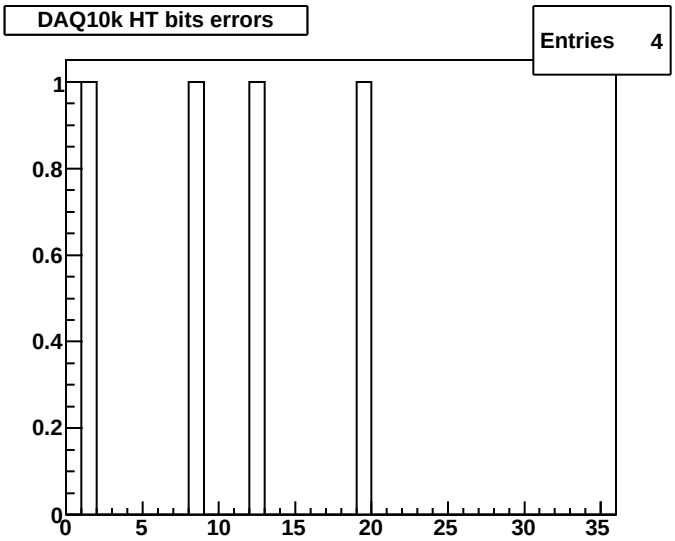

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6494640
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

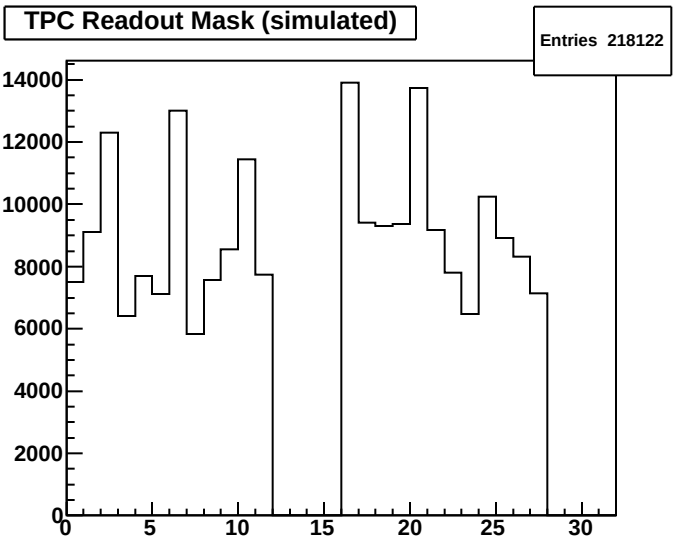

EMC L2 Input - HT01 bits/Partial JP ID
Entries 34
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

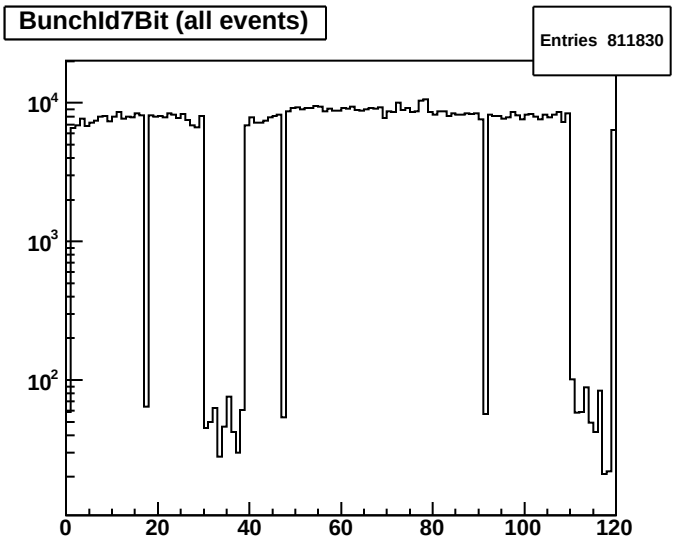

EMC L2 Input - HT23 bits
Entries 6494640
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

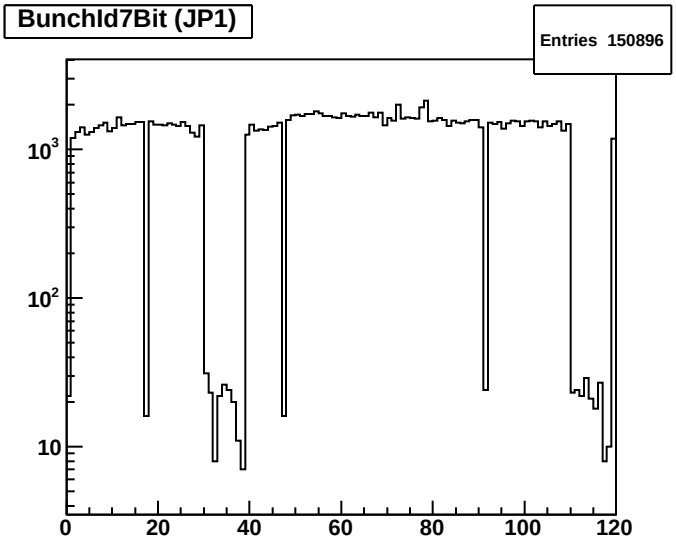

EMC L2 Input - HT23 bits
Entries 7
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

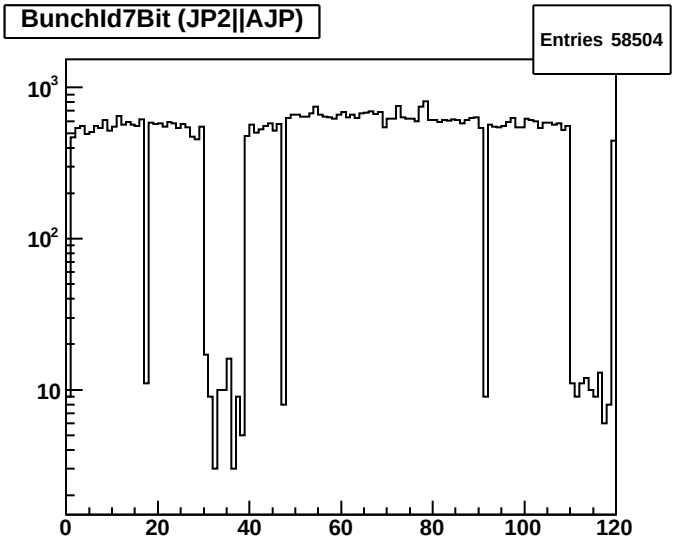

DAQ10k HT bits
Entries 123302

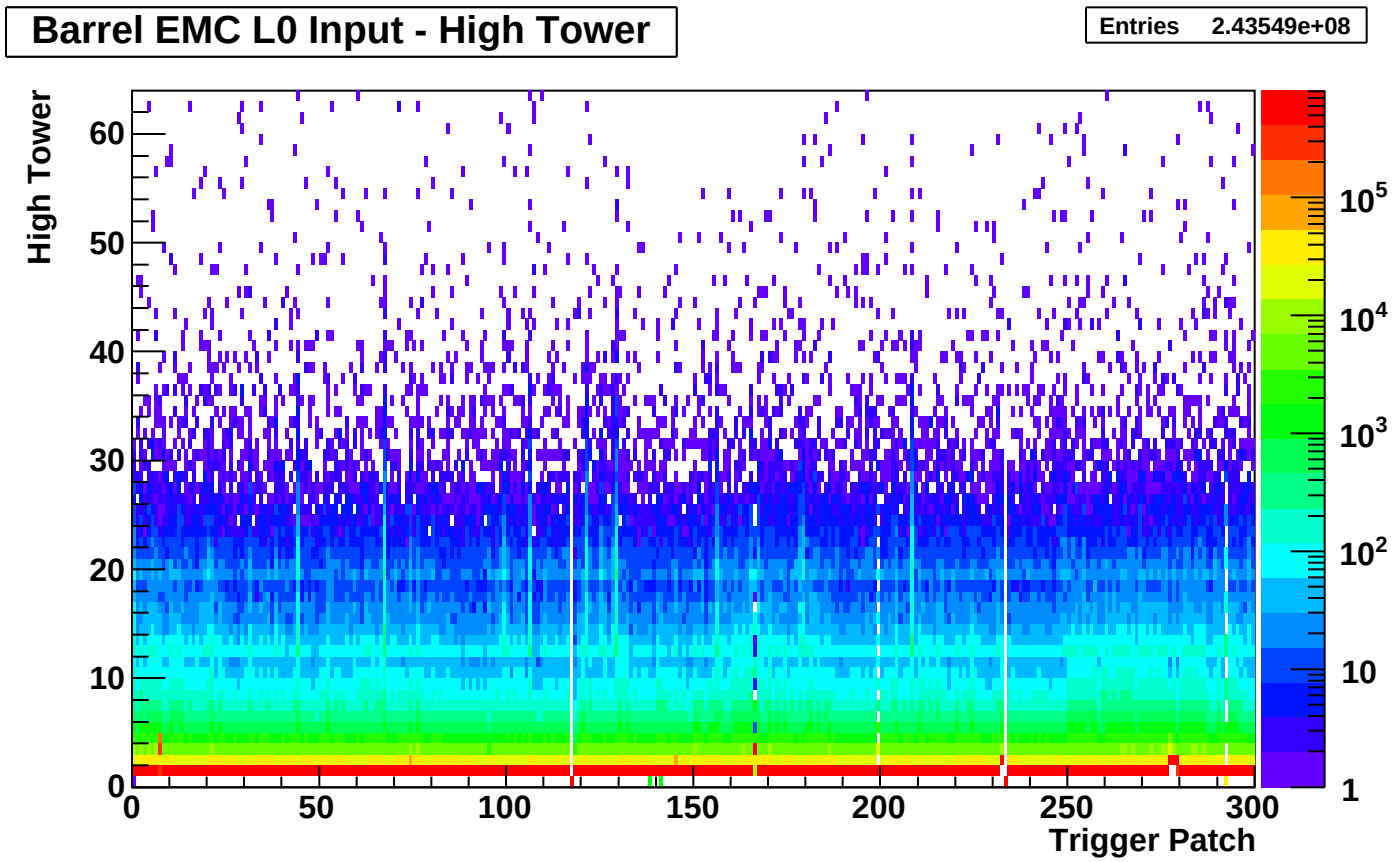

DAQ10k HT bits errors
Entries 4

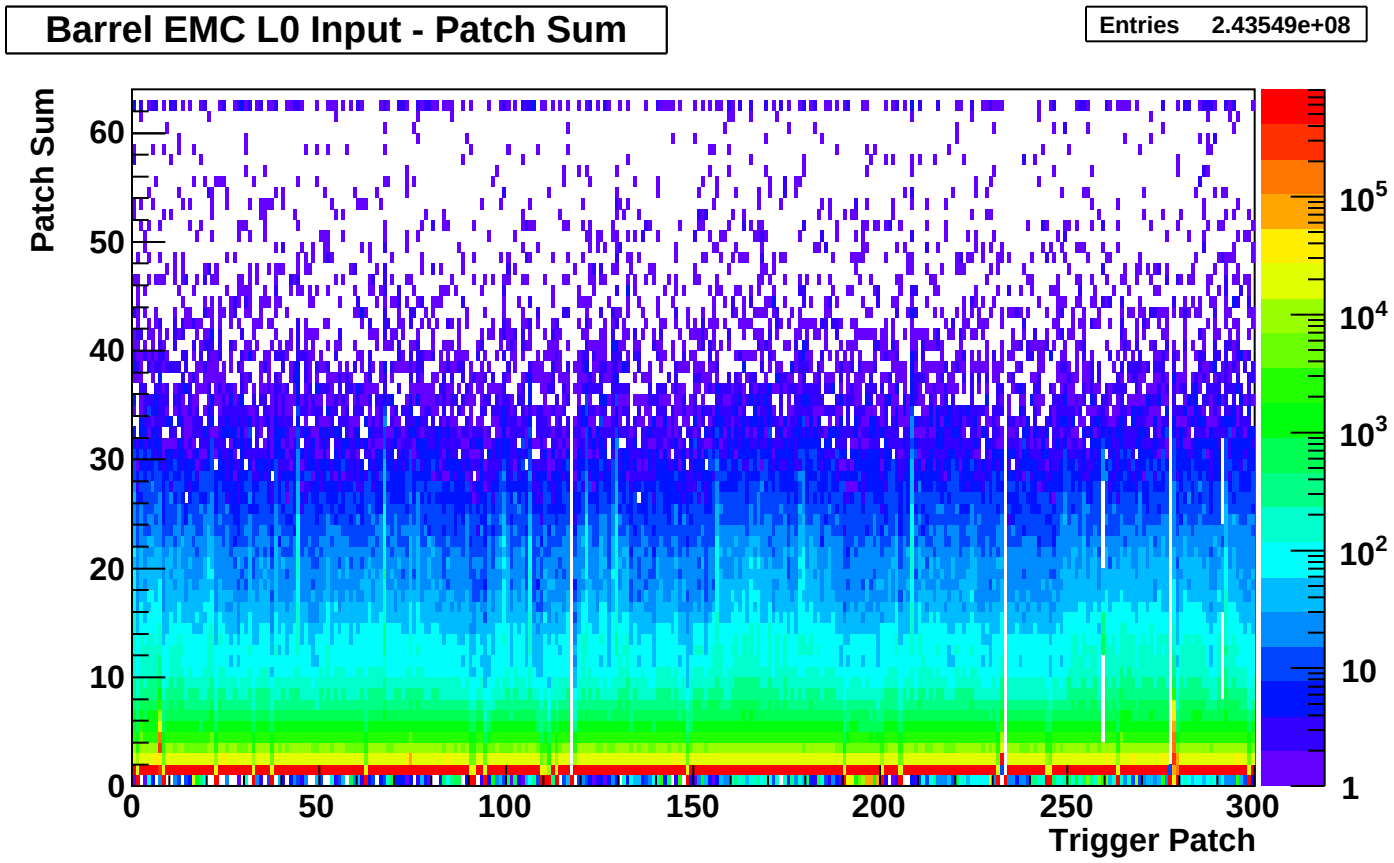

TPC Readout Mask (simulated)
Entries 218122

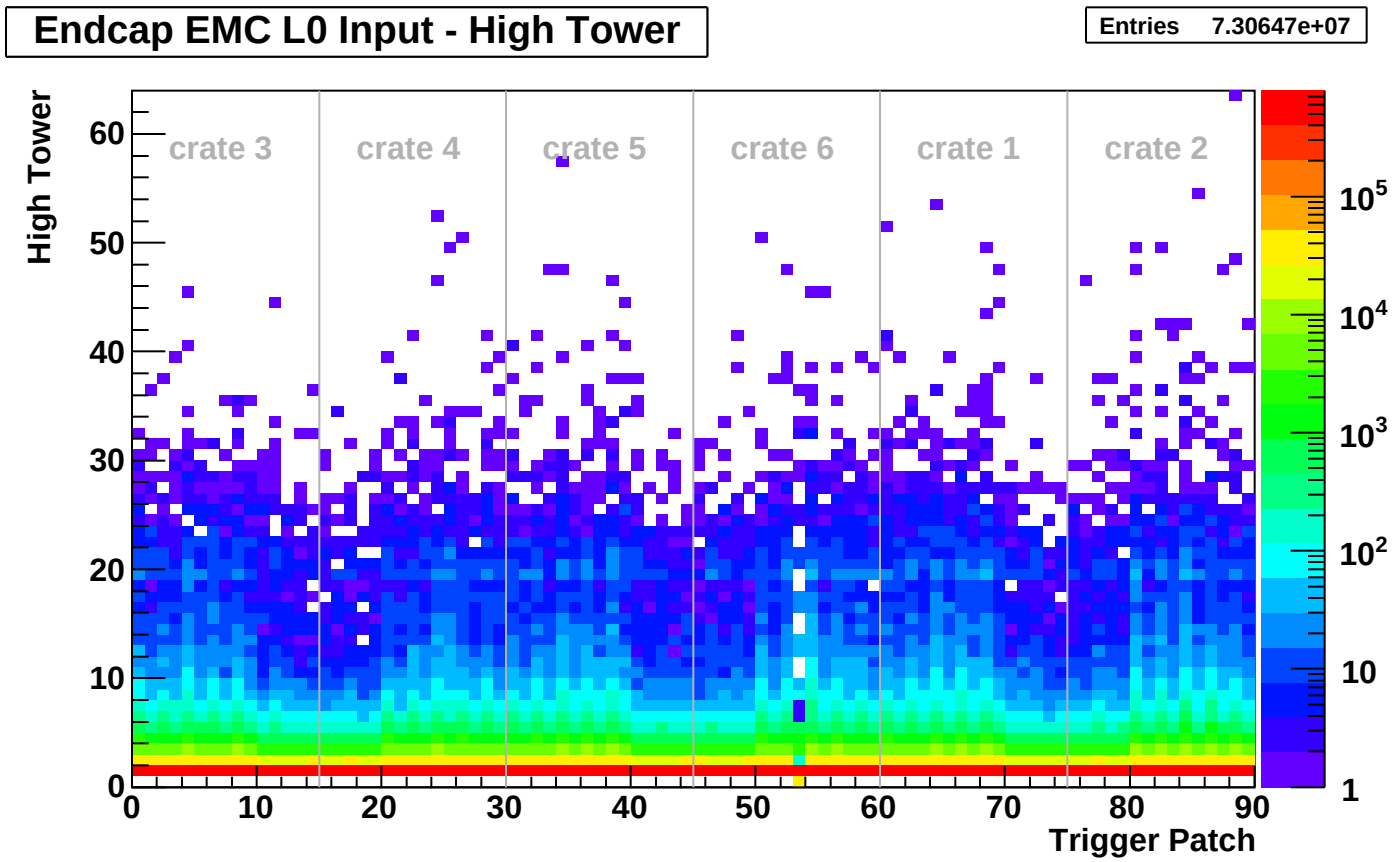

BunchId7Bit (all events)
Entries 811830

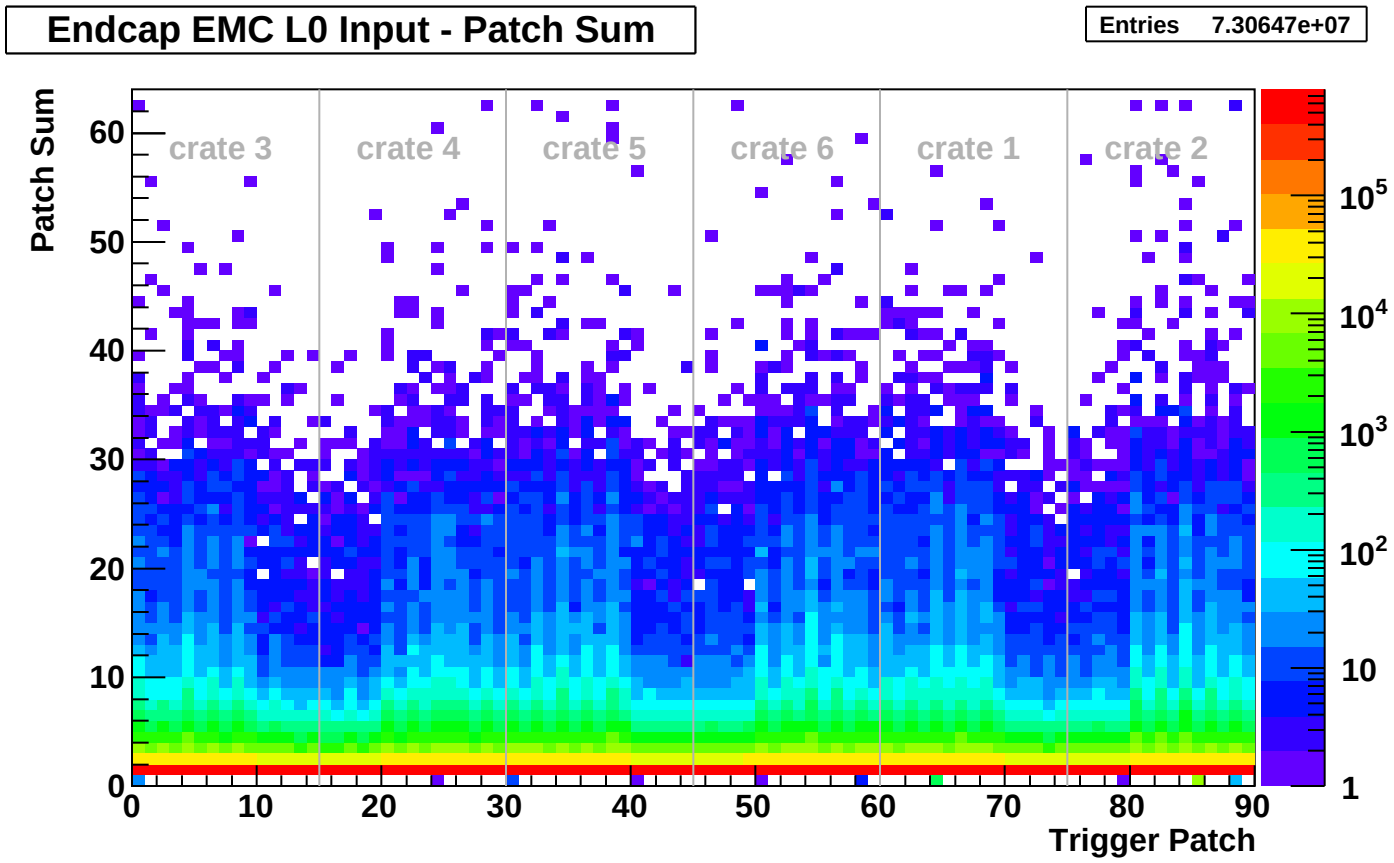

BunchId7Bit (JP1)
Entries 150896

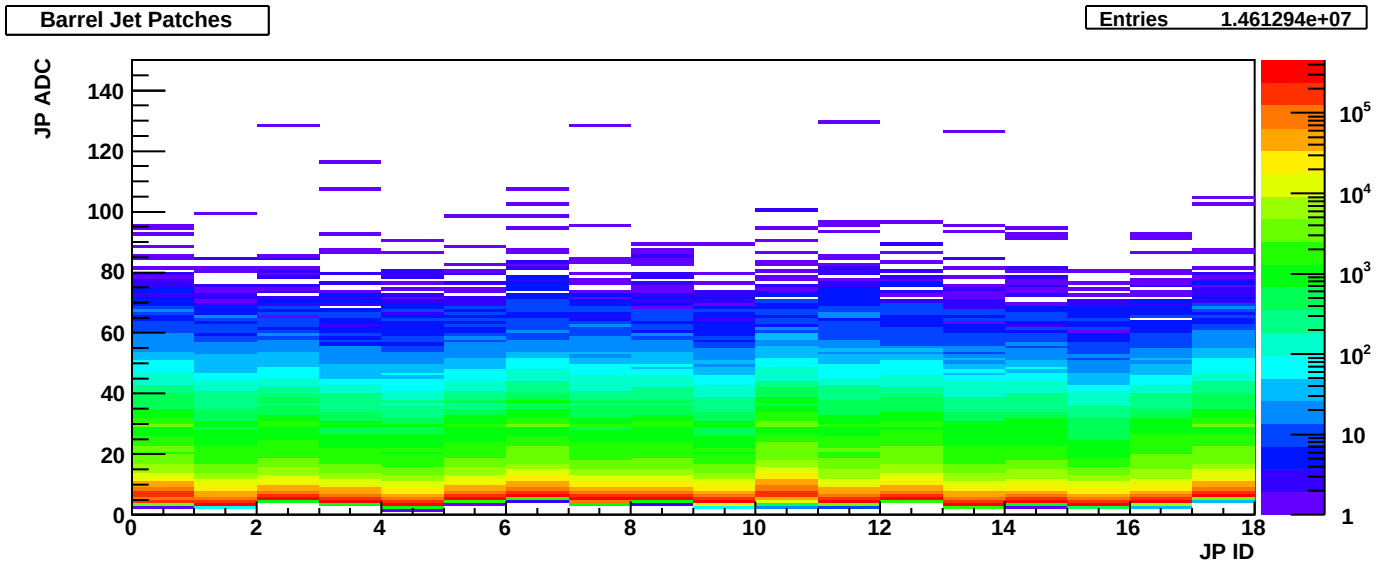

BunchId7Bit (JP2||AJP)
Entries 58504

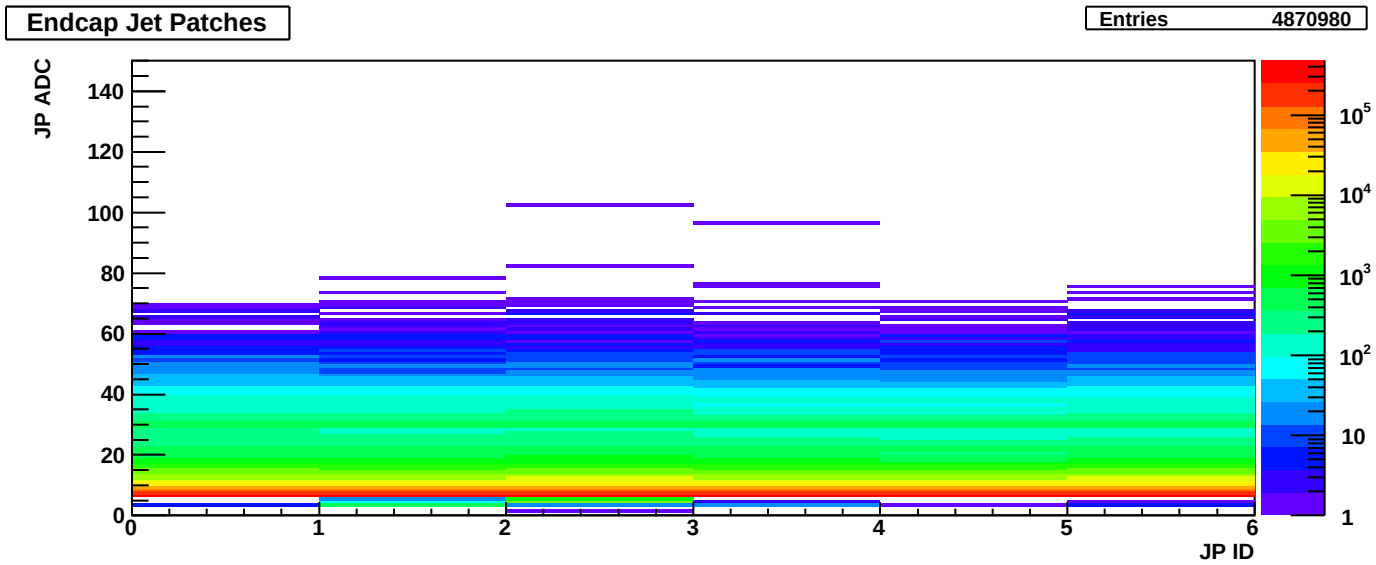

Barrel EMC L0 Input - High Tower
Entries 2.43549e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

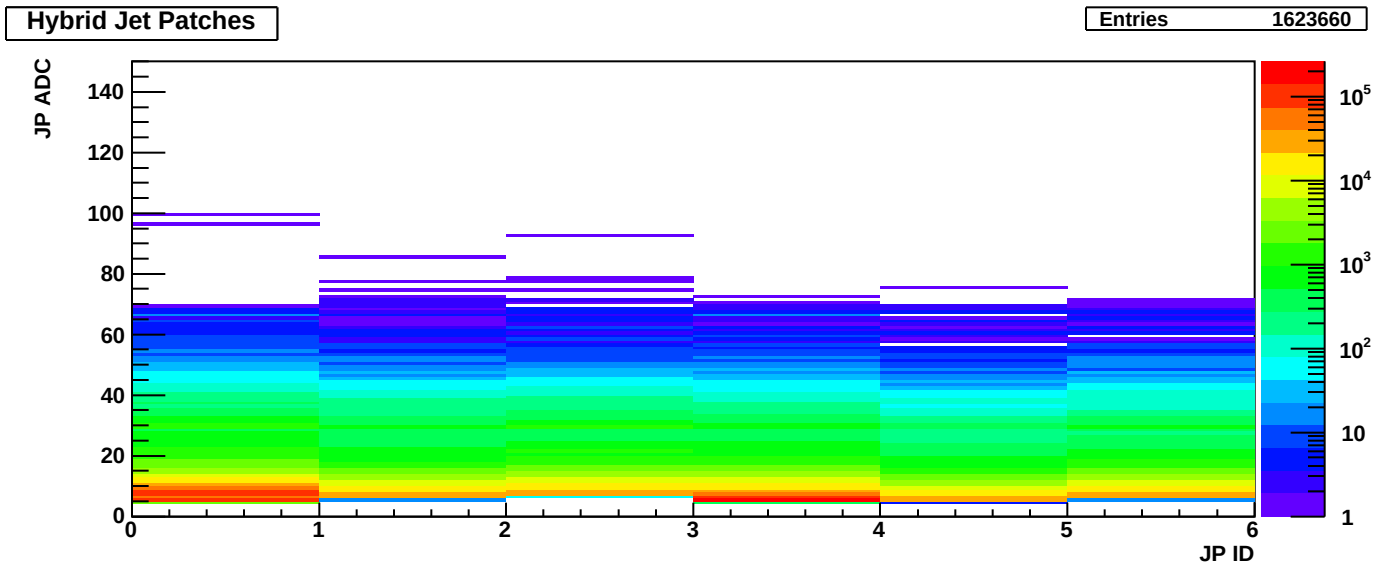

Barrel EMC L0 Input - Patch Sum
Entries 2.43549e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

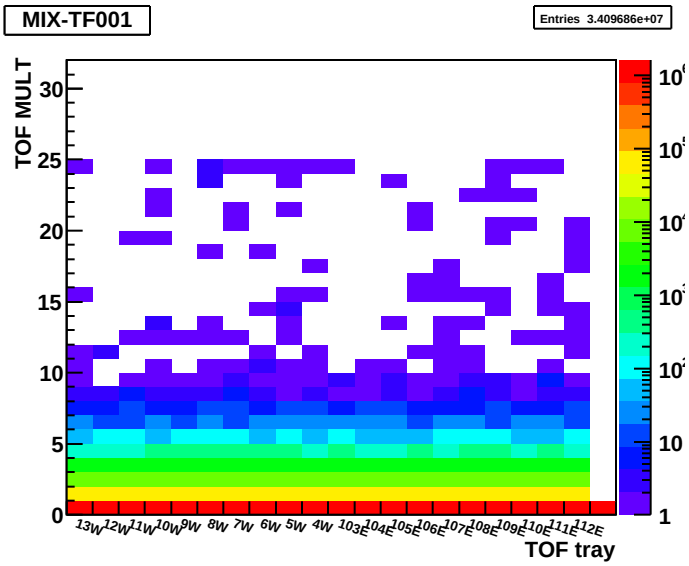

Endcap EMC L0 Input - High Tower
Entries 7.30647e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

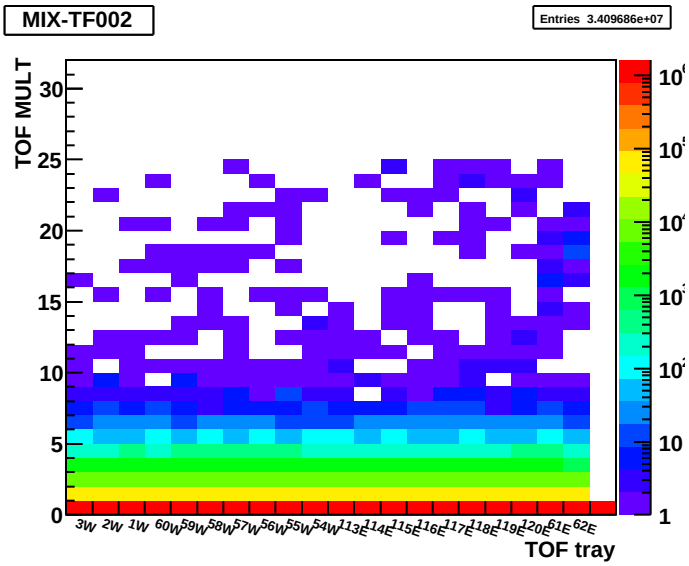

Endcap EMC L0 Input - Patch Sum
Entries 7.30647e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

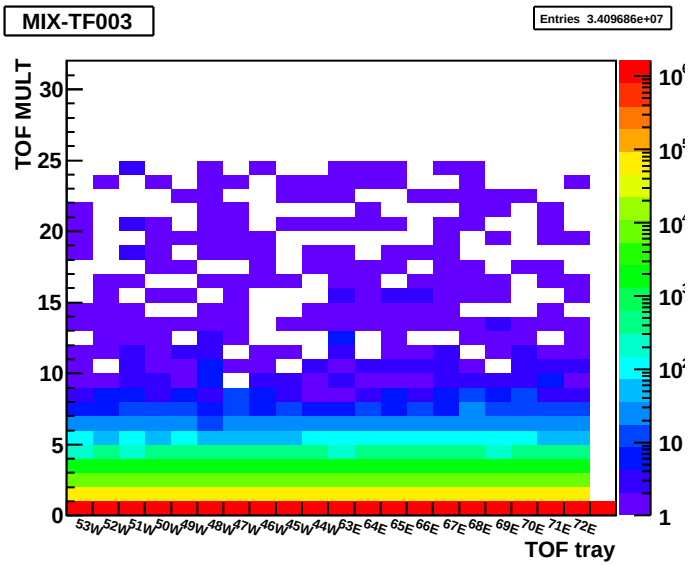

Barrel Jet Patches
Entries 1.461294e+07
JP ADC
JP ID

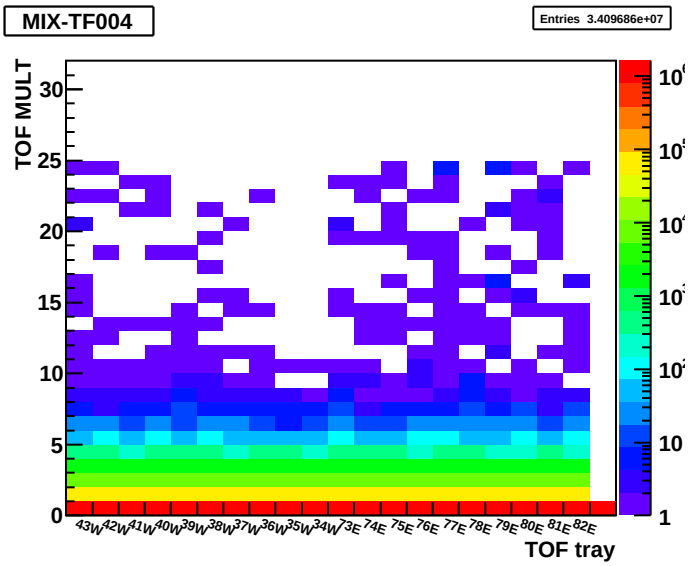

Endcap Jet Patches
Entries 4870980
JP ADC
JP ID

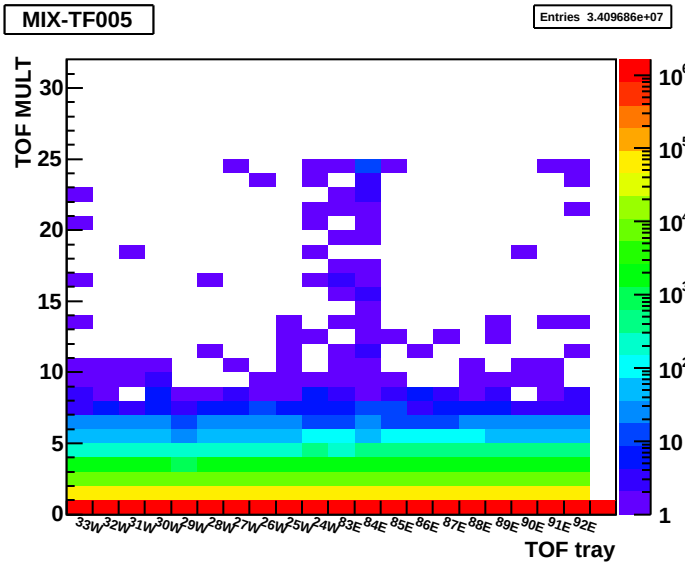

Hybrid Jet Patches
Entries 1623660
JP ADC
JP ID

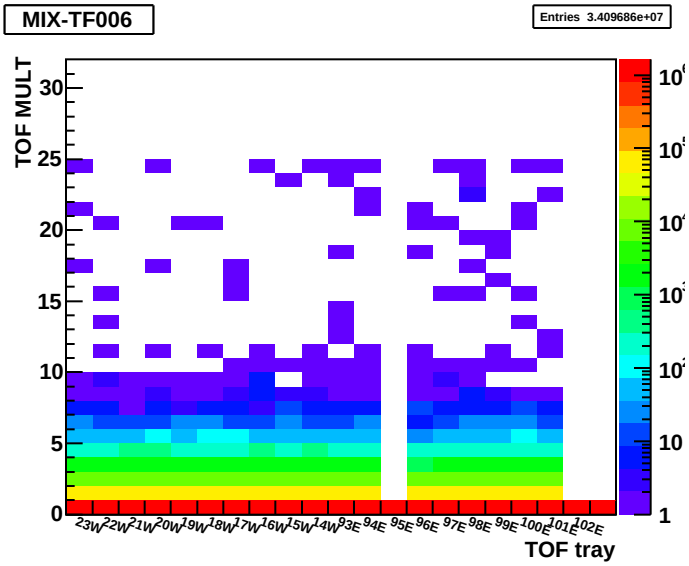

MIX-TF001
Entries 3.409686e+07
TOF MULT
TOF tray

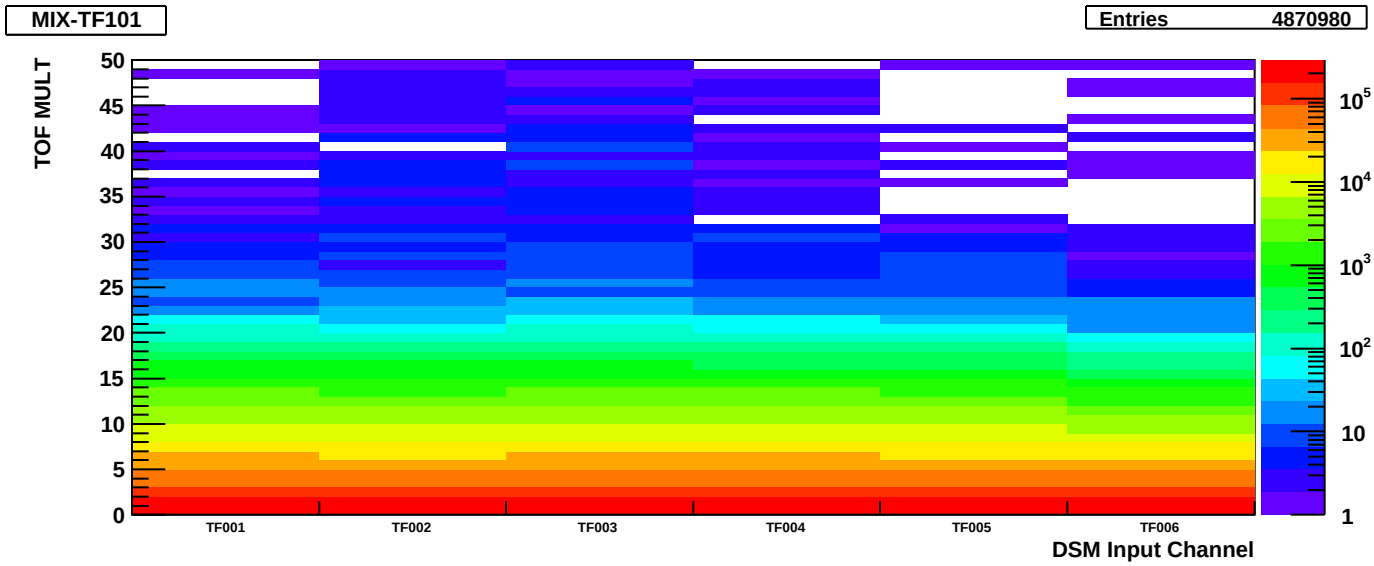

MIX-TF002
Entries 3.409686e+07
TOF MULT
TOF tray

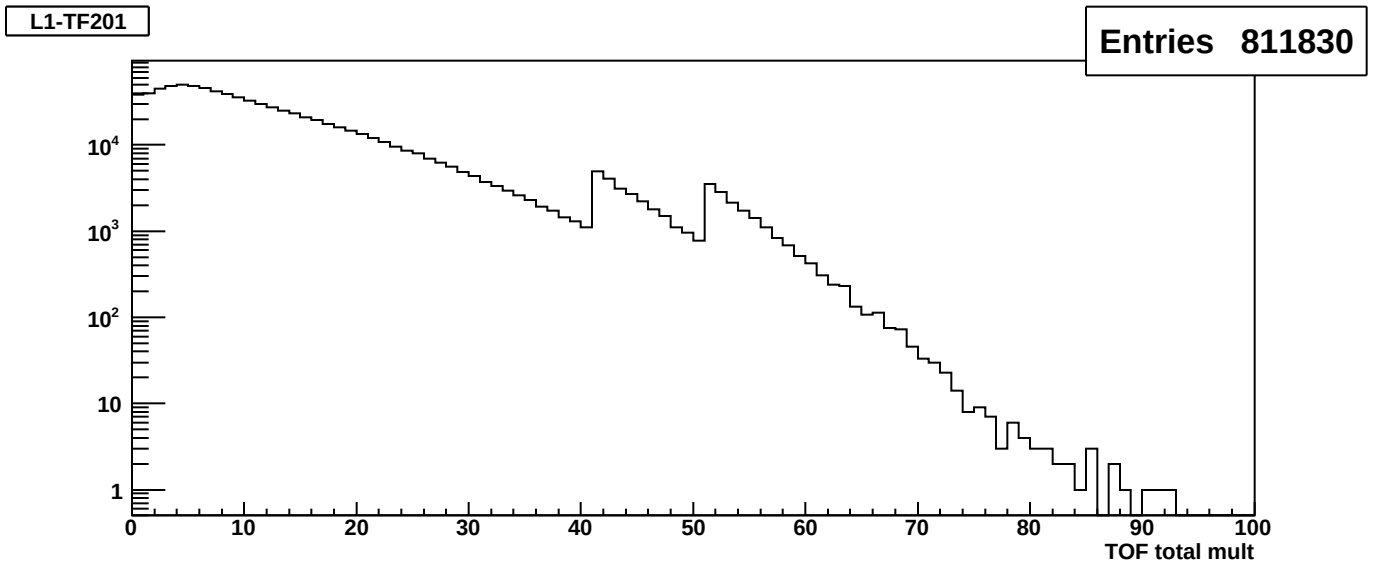

MIX-TF003
Entries 3.409686e+07
TOF MULT
TOF tray

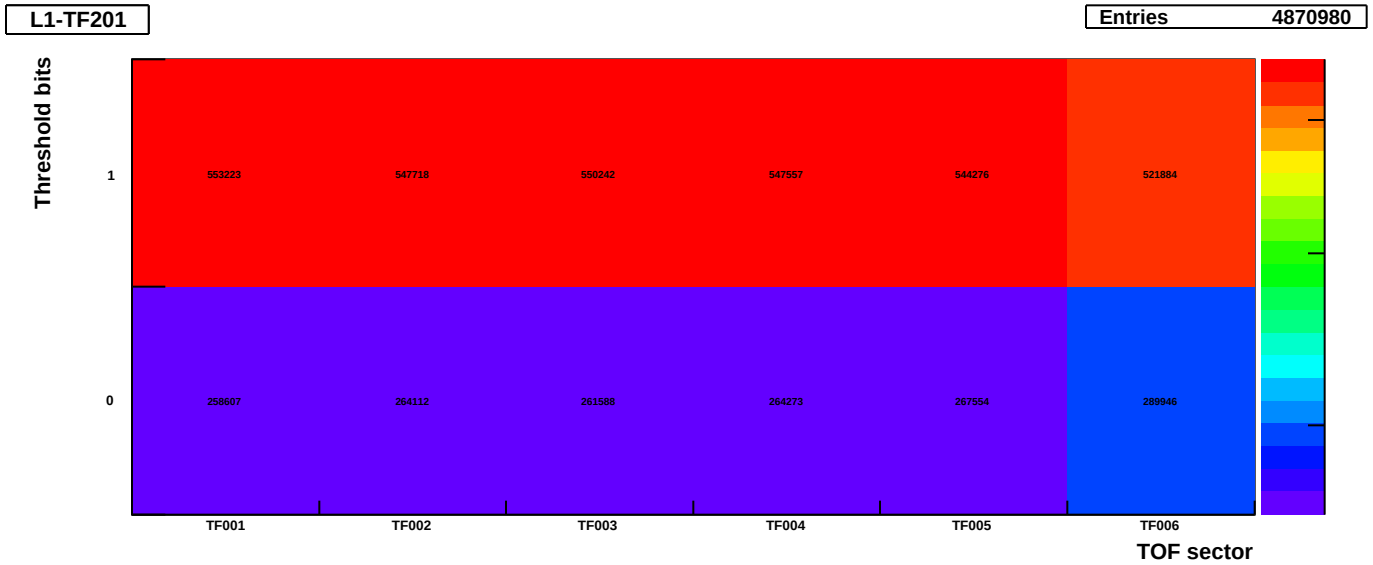

MIX-TF004
Entries 3.409686e+07
TOF MULT
TOF tray

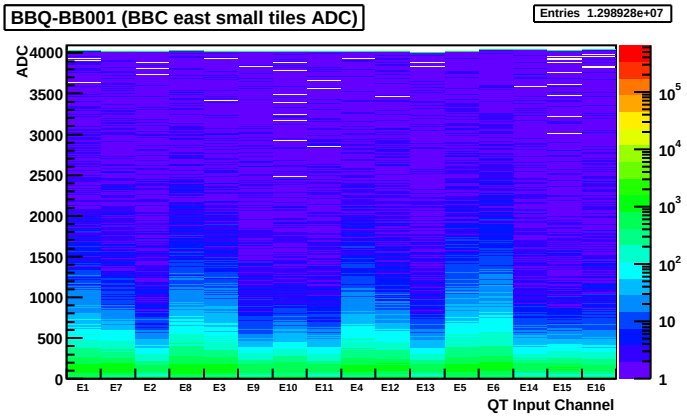

MIX-TF005
Entries 3.409686e+07
TOF MULT
TOF tray

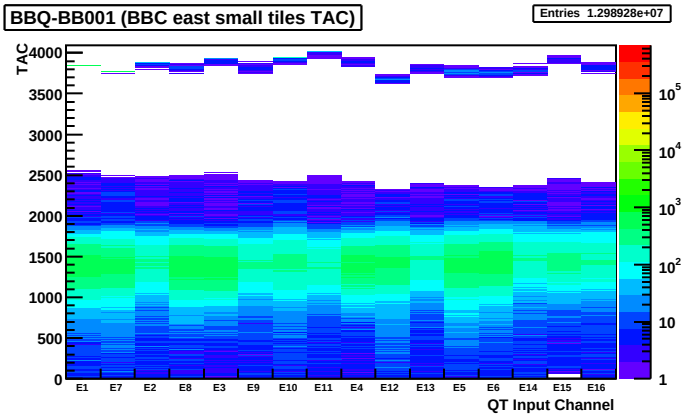

MIX-TF006
Entries 3.409686e+07
TOF MULT
TOF tray

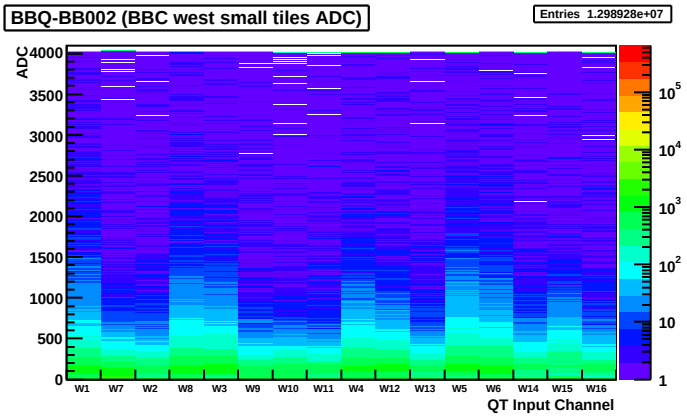

MIX-TF101
Entries 4870980
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

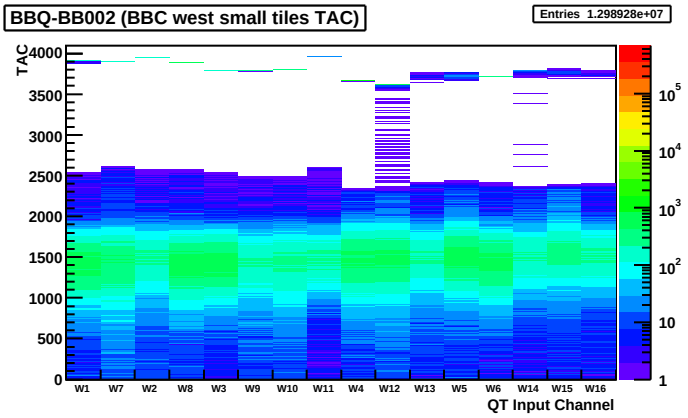

L1-TF201
Entries 811830
TOF total mult

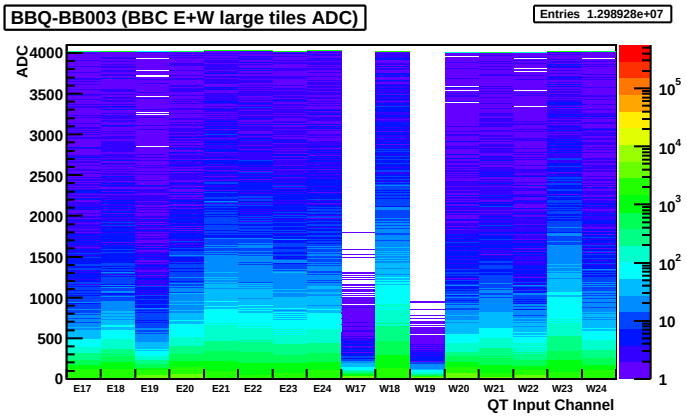

L1-TF201
Entries 4870980
Threshold bits
553223
547718
550242
547557
544276
521884
258607
264112
261588
264273
267554
289946
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

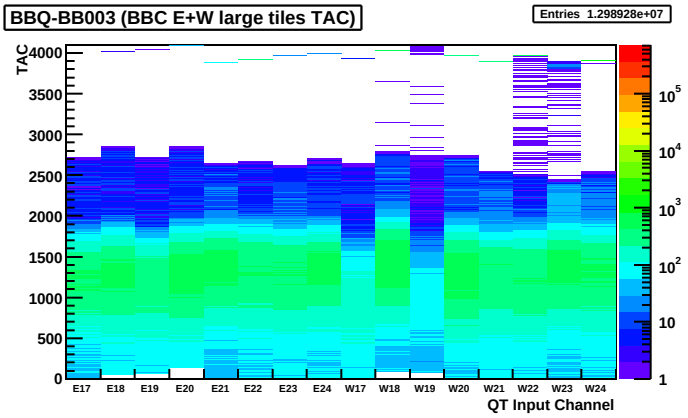

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.298928e+07
ADC
QT Input Channel

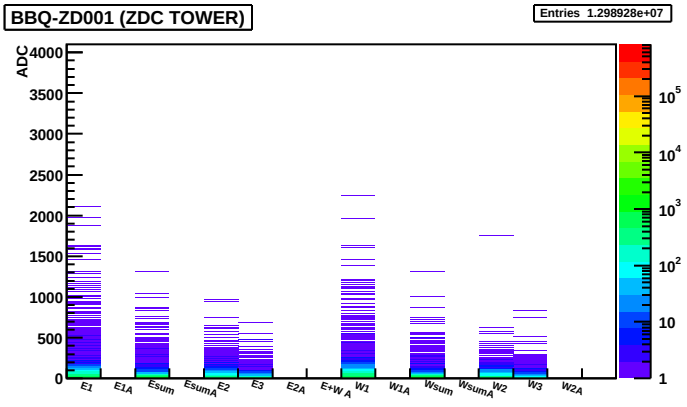

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.298928e+07
TAC
QT Input Channel

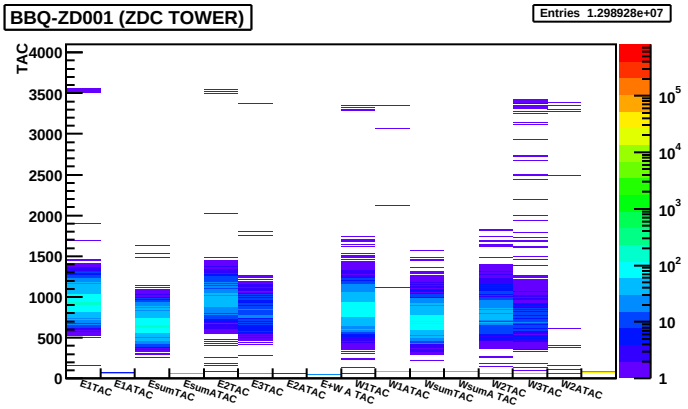

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.298928e+07
ADC
QT Input Channel

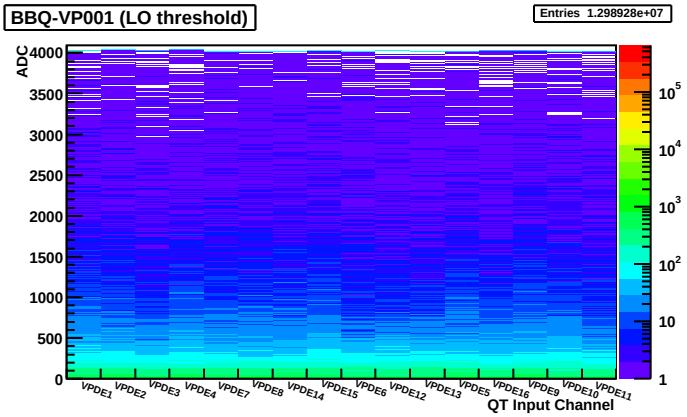

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.298928e+07
TAC
QT Input Channel

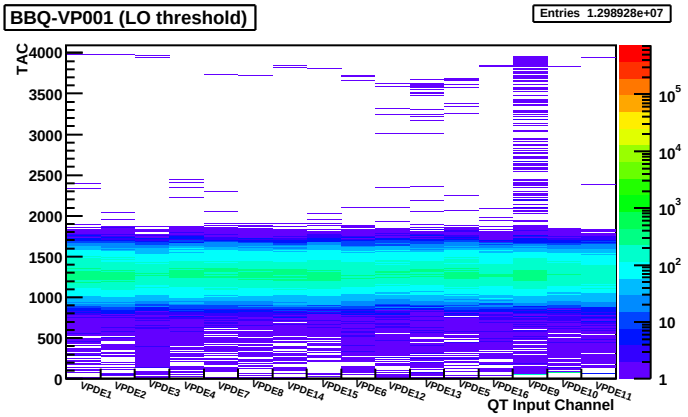

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.298928e+07
ADC
QT Input Channel

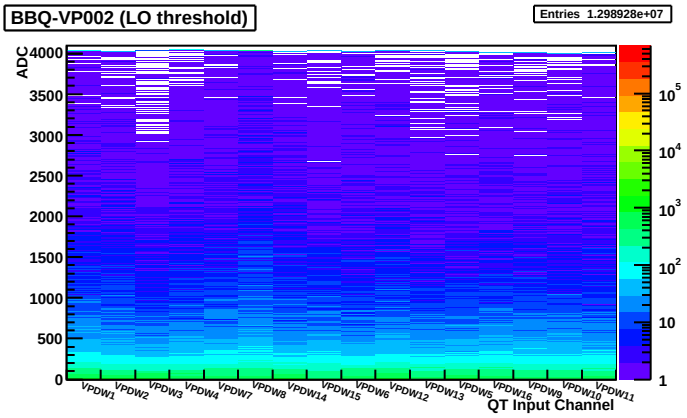

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.298928e+07
TAC
QT Input Channel

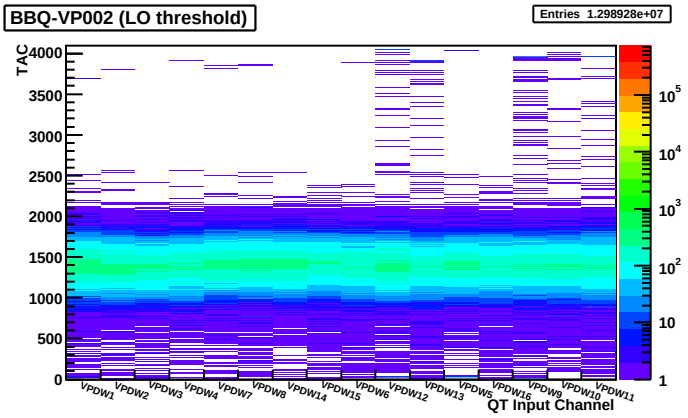

BBQ-ZD001 (ZDC TOWER)
Entries 1.298928e+07
ADC

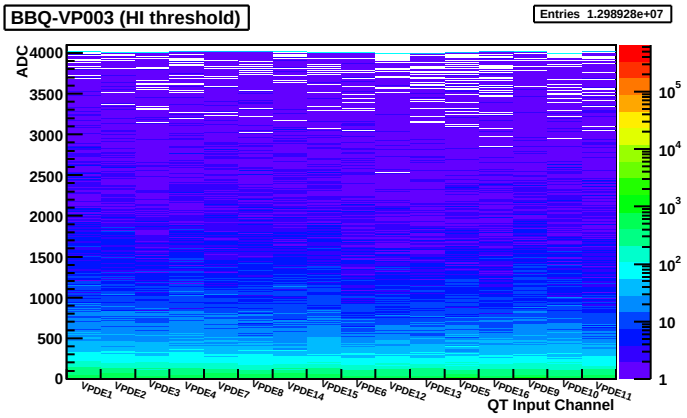

BBQ-ZD001 (ZDC TOWER)
Entries 1.298928e+07
TAC

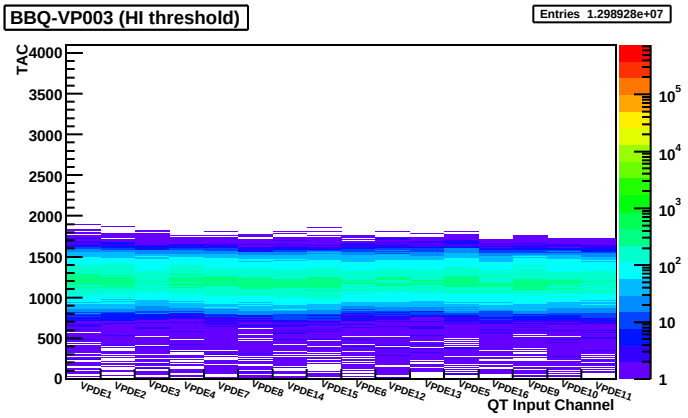

BBQ-VP001 (LO threshold)
Entries 1.298928e+07
ADC
QT Input Channel

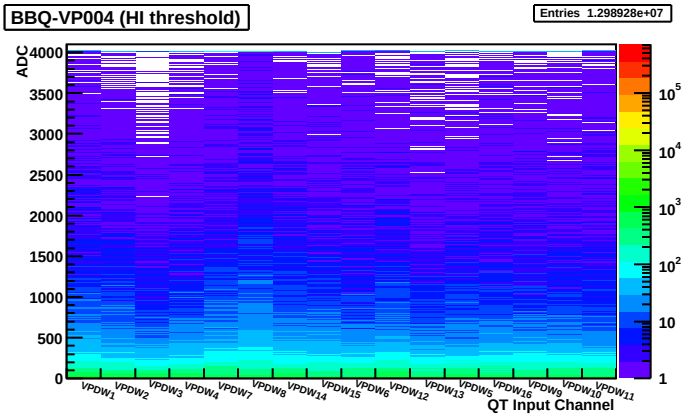

BBQ-VP001 (LO threshold)
Entries 1.298928e+07
TAC
QT Input Channel

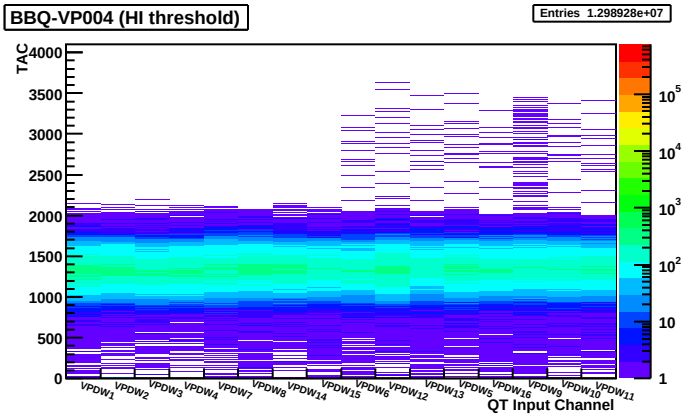

BBQ-VP002 (LO threshold)
Entries 1.298928e+07
ADC
QT Input Channel

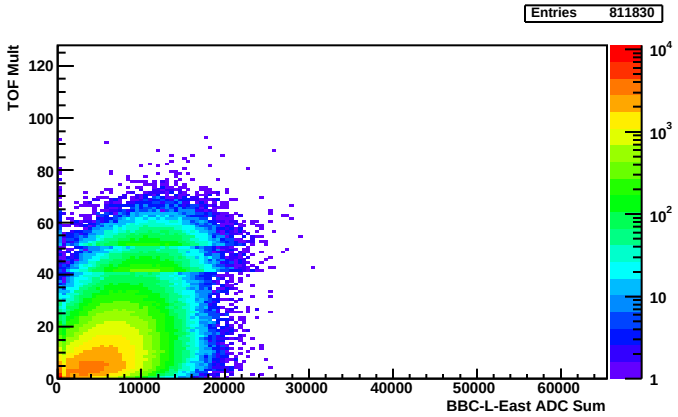

BBQ-VP002 (LO threshold)
Entries 1.298928e+07
TAC
QT Input Channel

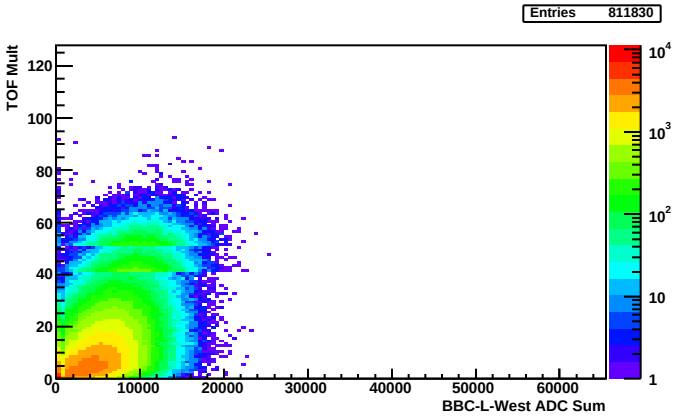

BBQ-VP003 (HI threshold)
Entries 1.298928e+07
ADC
QT Input Channel

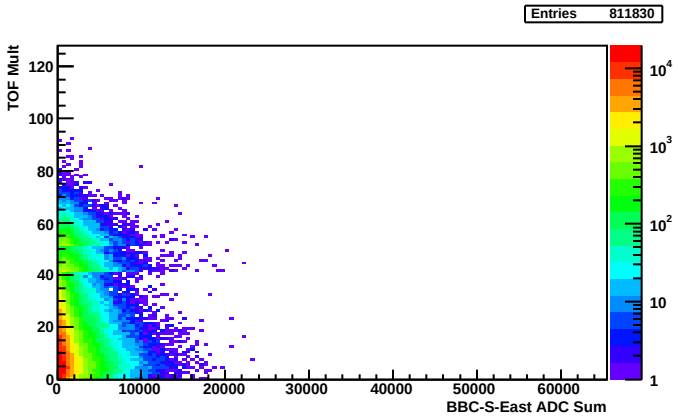

BBQ-VP003 (HI threshold)
Entries 1.298928e+07
TAC
QT Input Channel

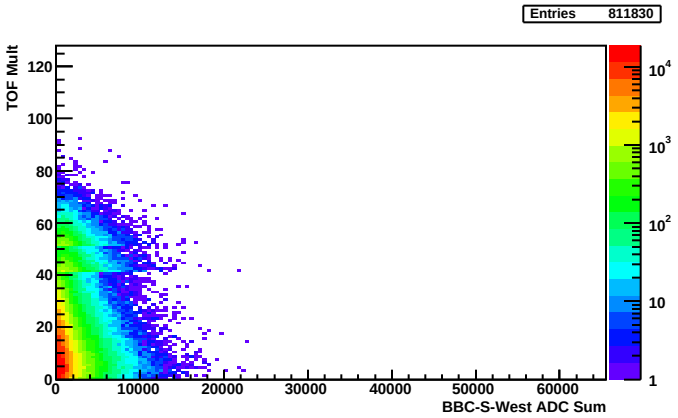

BBQ-VP004 (HI threshold)
Entries 1.298928e+07
ADC
QT Input Channel

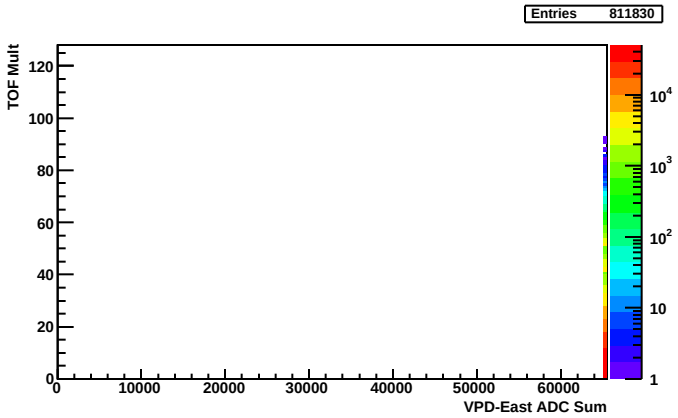

BBQ-VP004 (HI threshold)
Entries 1.298928e+07
TAC
QT Input Channel

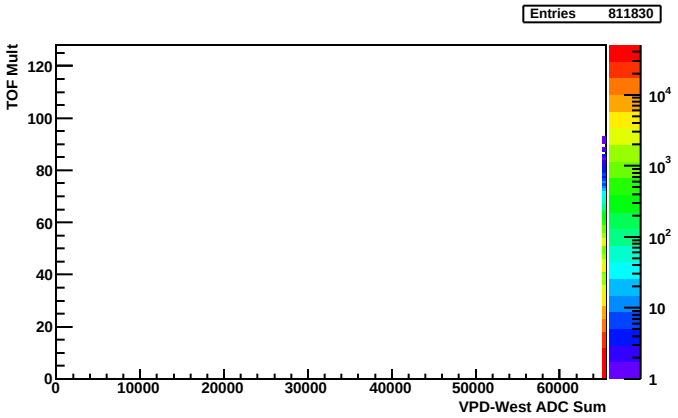

Entries 811830
TOF Mult
BBC-L-East ADC Sum

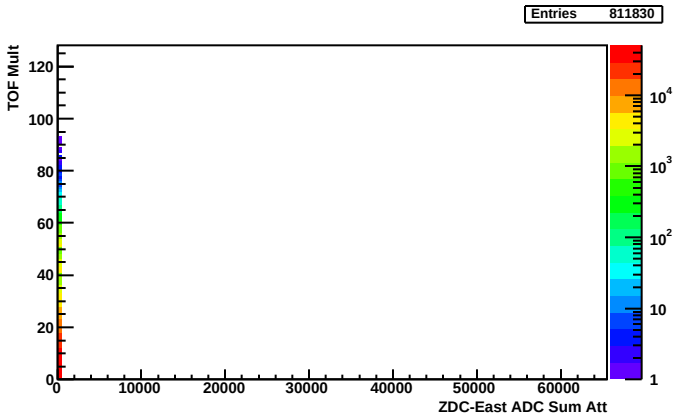

Entries 811830
TOF Mult
BBC-L-West ADC Sum

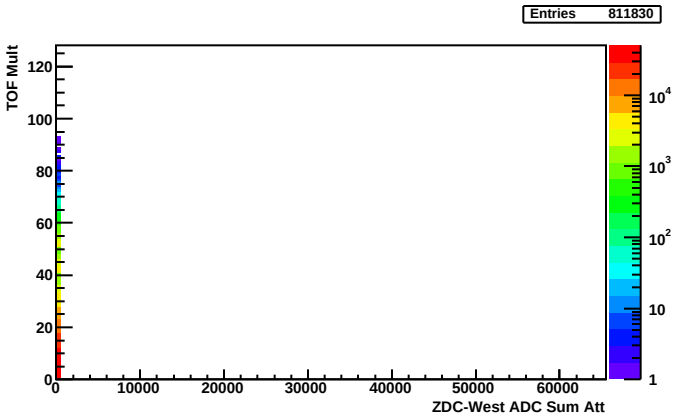

Entries 811830
TOF Mult
BBC-S-East ADC Sum

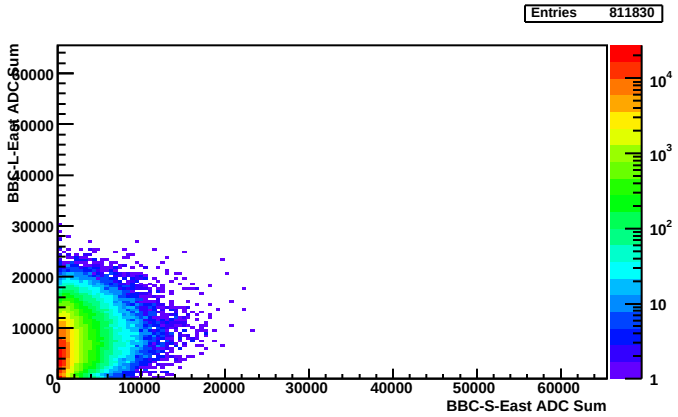

Entries 811830
TOF Mult
BBC-S-West ADC Sum

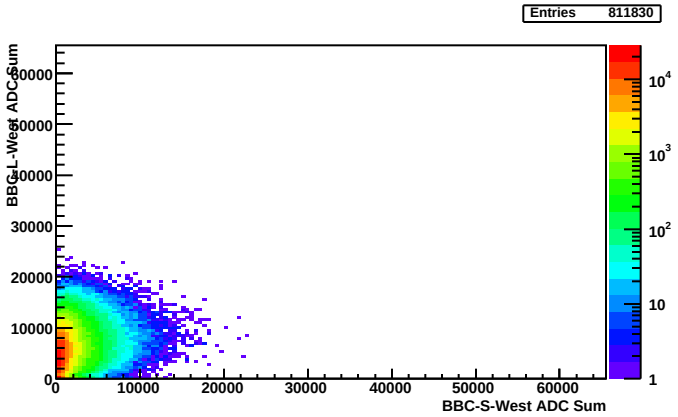

Entries 811830
TOF Mult
VPD-East ADC Sum

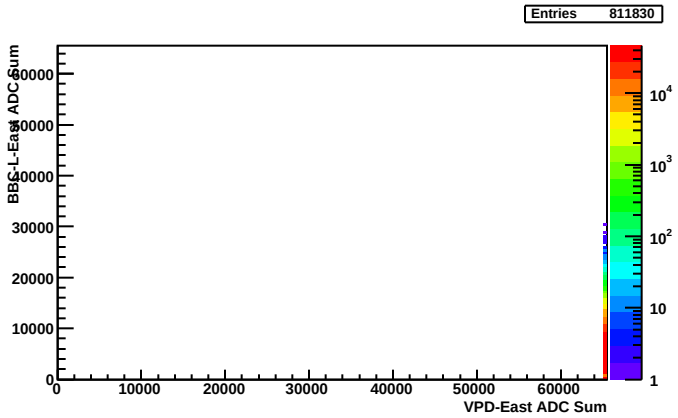

Entries 811830
TOF Mult
VPD-West ADC Sum

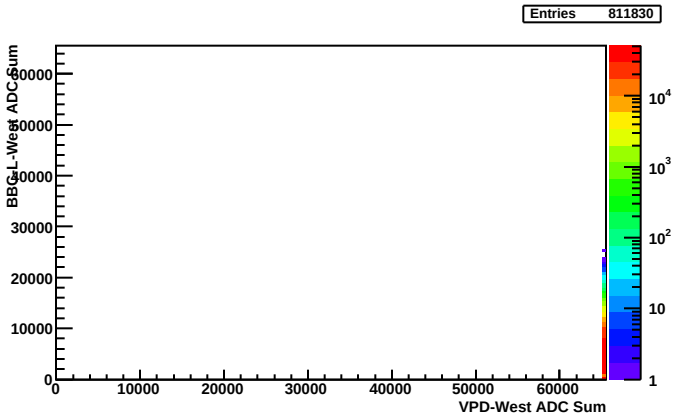

Entries 811830
TOF Mult
ZDC-East ADC Sum Att

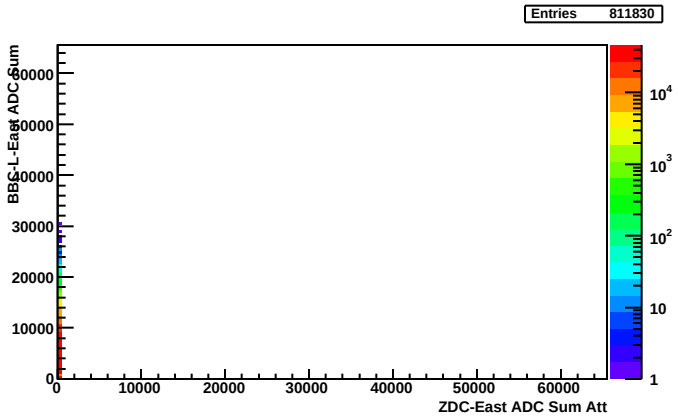

Entries 811830
TOF Mult
ZDC-West ADC Sum Att

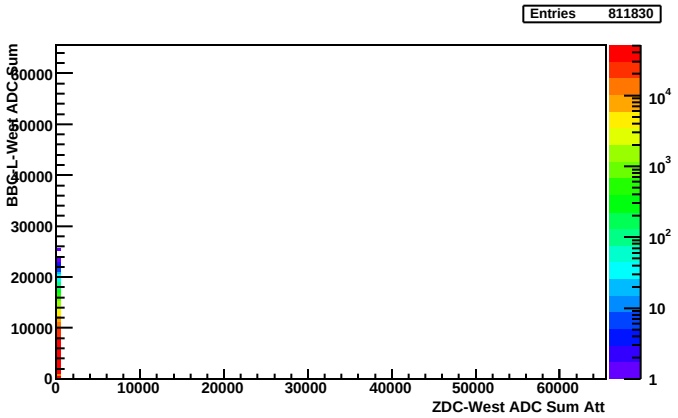

Entries 811830
BBC-L-East ADC Sum
BBC-S-East ADC Sum

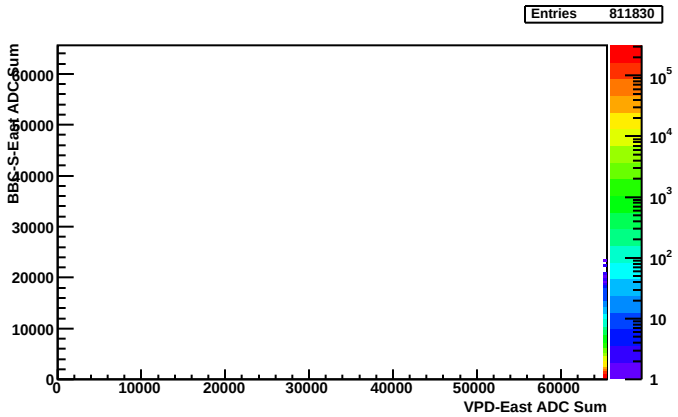

Entries 811830
BBC-L-West ADC Sum
BBC-S-West ADC Sum

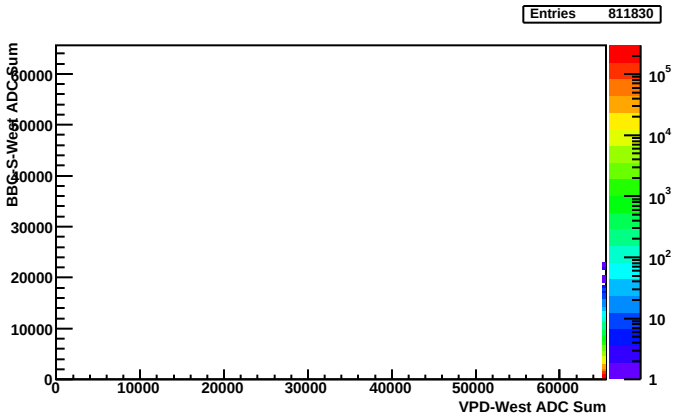

Entries 811830
BBC-L-East ADC Sum
VPD-East ADC Sum

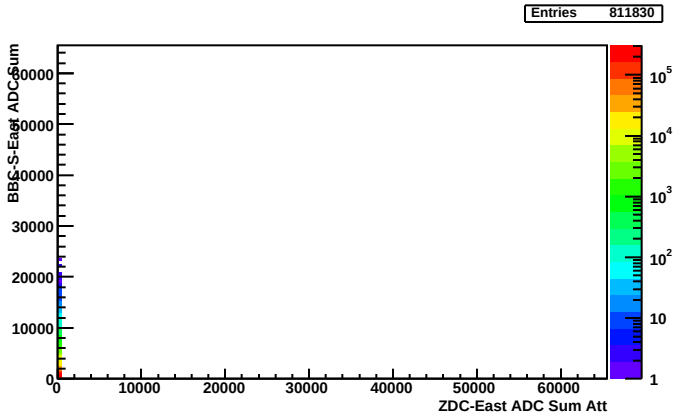

Entries 811830
BBC-L-West ADC Sum
VPD-West ADC Sum

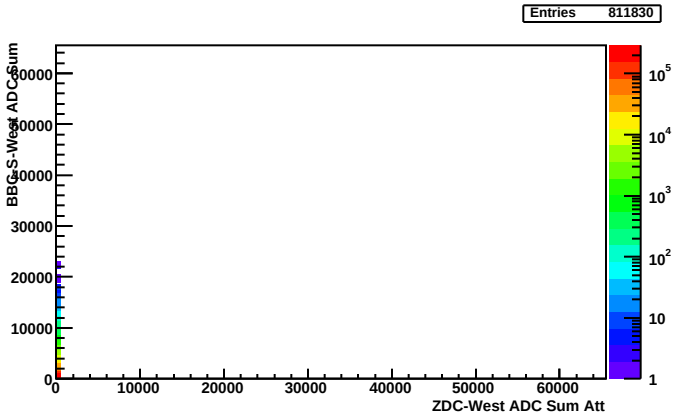

Entries 811830
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

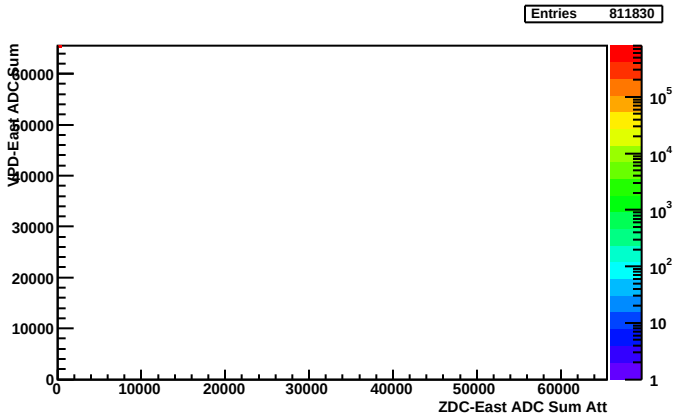

Entries 811830
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

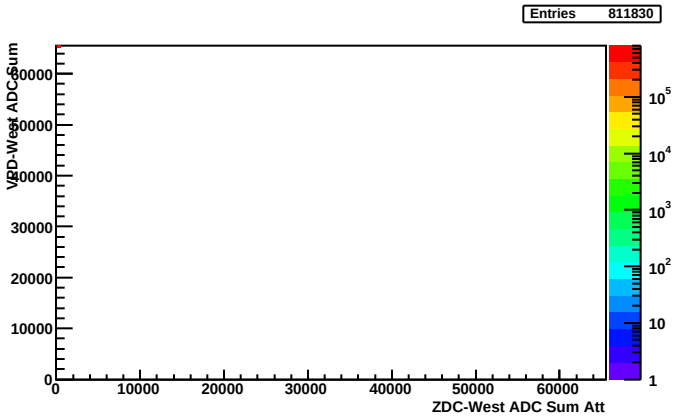

Entries 811830
BBC-S-East ADC Sum
VPD-East ADC Sum

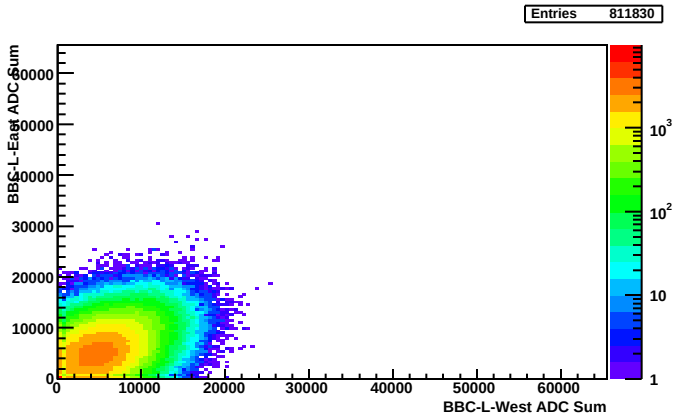

Entries 811830
BBC-S-West ADC Sum
VPD-West ADC Sum

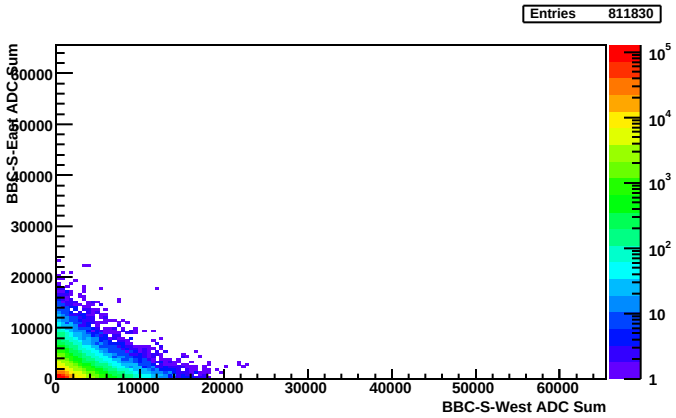

Entries 811830
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

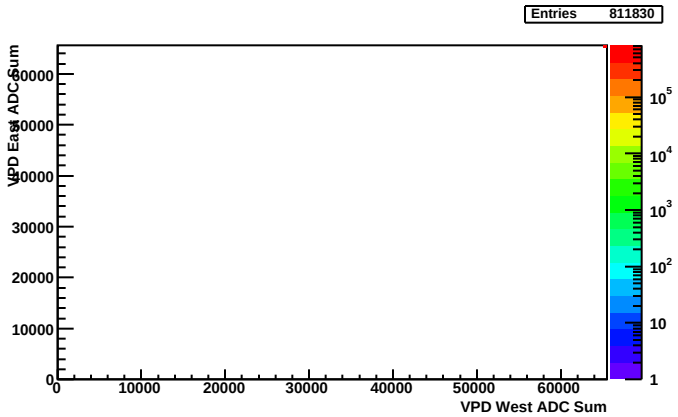

Entries 811830
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

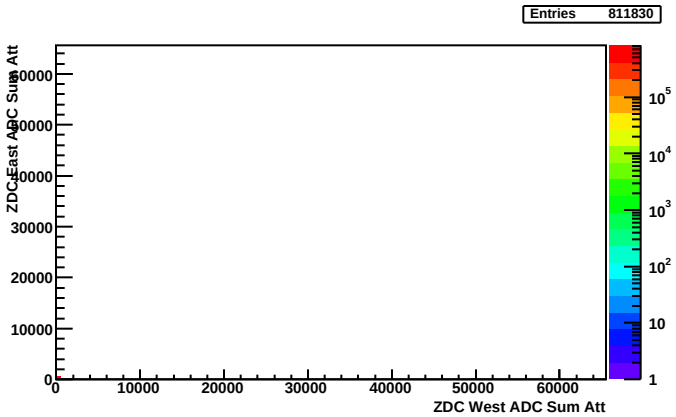

Entries 811830
VPD-East ADC Sum
ZDC-East ADC Sum Att

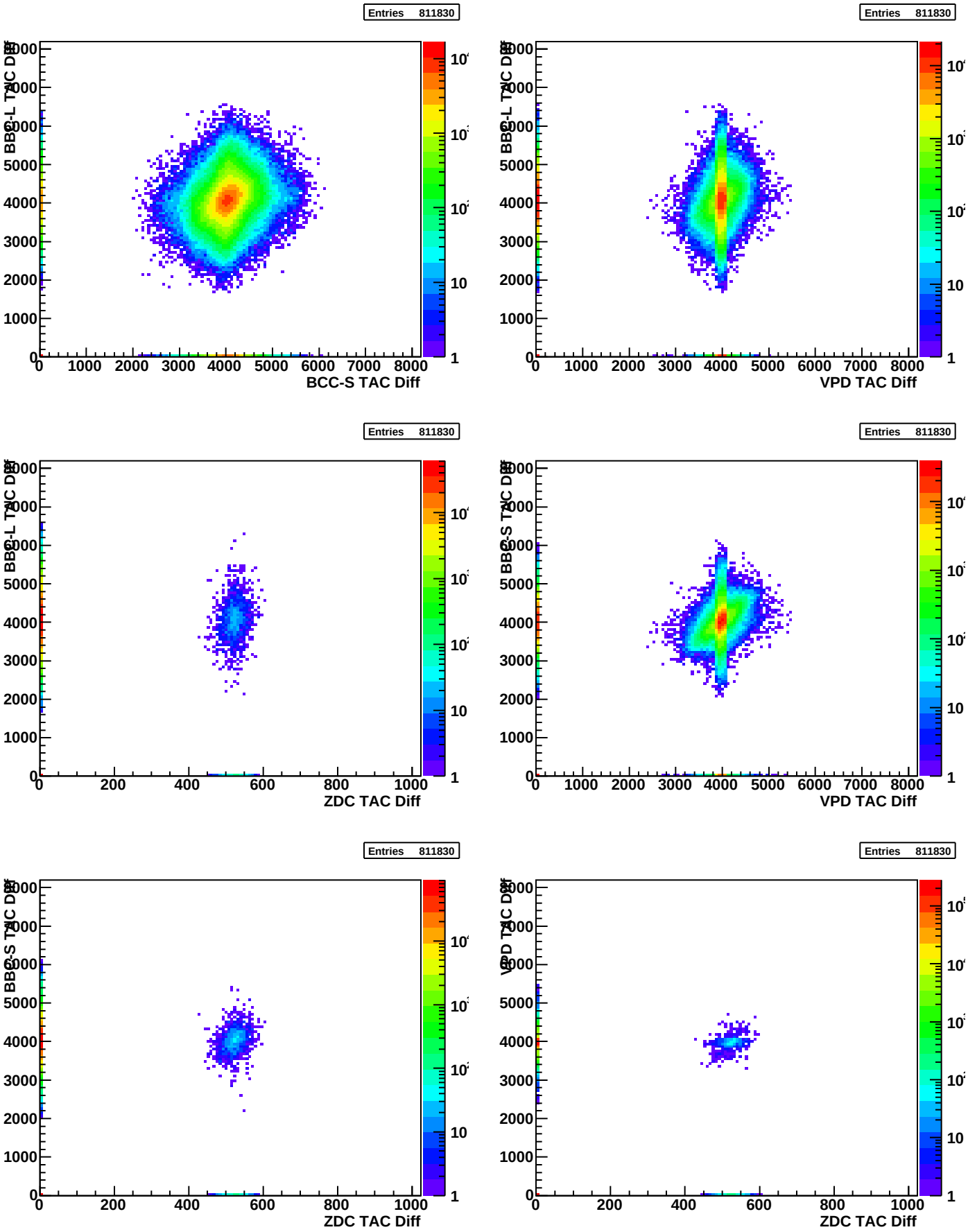

Entries 811830
VPD-West ADC Sum
ZDC-West ADC Sum Att

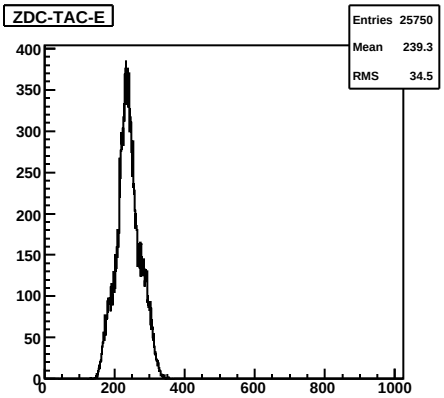

Entries 811830
BBC-L-East ADC Sum
BBC-L-West ADC Sum

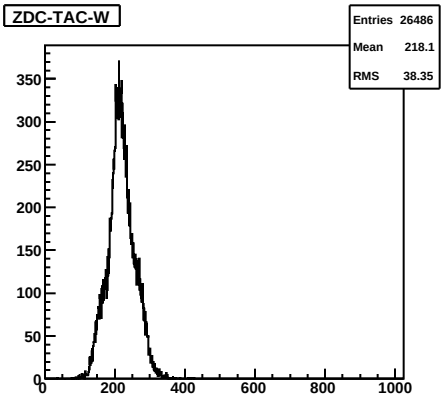

Entries 811830
BBC-S-East ADC Sum
BBC-S-West ADC Sum

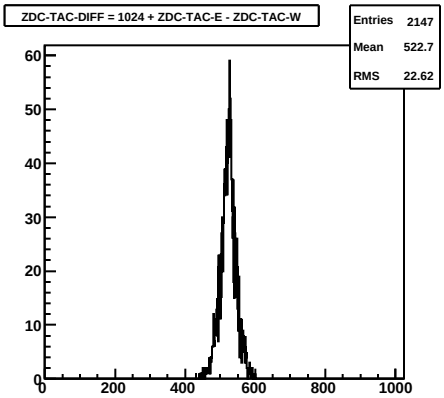

Entries 811830
VPD East ADC Sum
VPD West ADC Sum

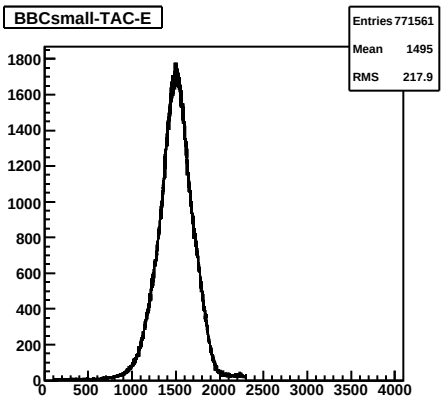

Entries 811830
ZDC East ADC Sum Att
ZDC West ADC Sum Att

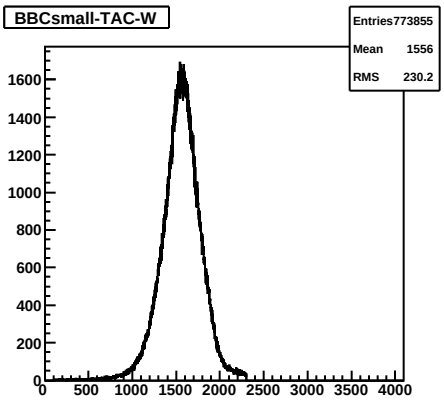

Entries 811830
BBC-L TAC Diff
BCC-S TAC Diff
Entries 811830
BBC-L TAC Diff
VPD TAC Diff
Entries 811830
BBC-L TAC Diff
ZDC TAC Diff
Entries 811830
BBC-S TAC Diff
VPD TAC Diff
Entries 811830
BBC-S TAC Diff
ZDC TAC Diff
Entries 811830
VPD TAC Diff
ZDC TAC Diff

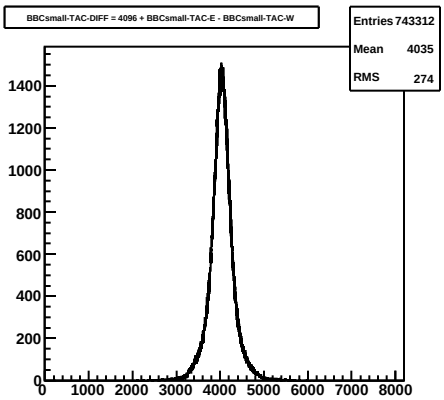

ZDC-TAC-E
Entries 25750
Mean 239.3
RMS 34.5

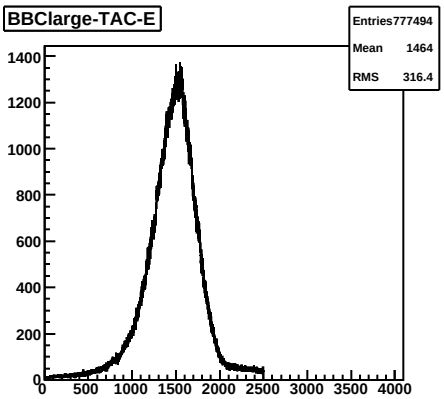

ZDC-TAC-W
Entries 26486
Mean 218.1
RMS 38.35

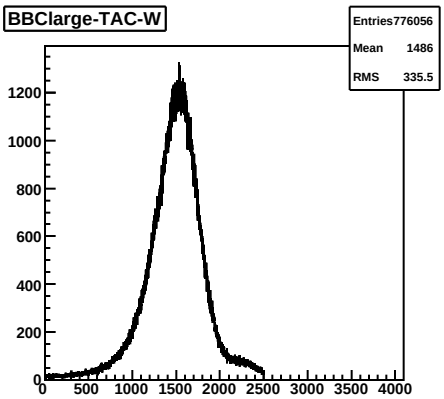

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 2147
Mean 522.7
RMS 22.62

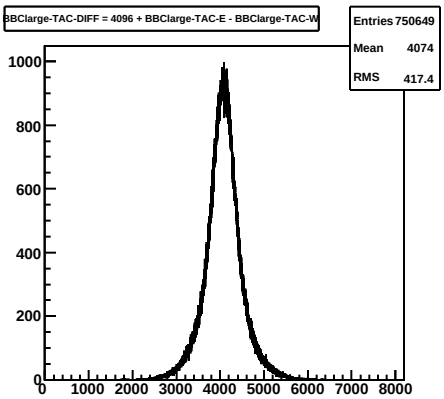

BBCsmall-TAC-E
Entries 771561
Mean 1495
RMS 217.9

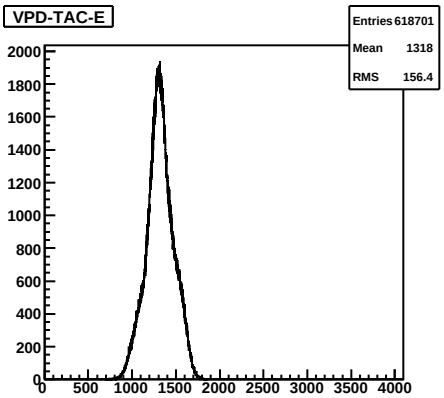

BBCsmall-TAC-W
Entries 773855
Mean 1556
RMS 230.2

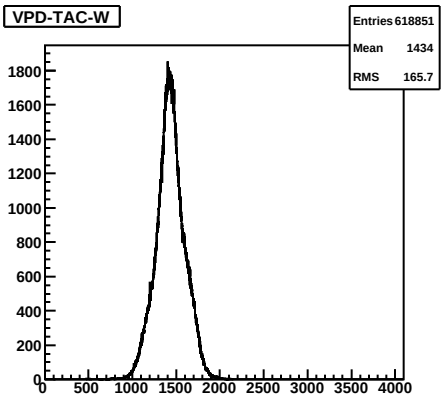

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 743312
Mean 4035
RMS 274

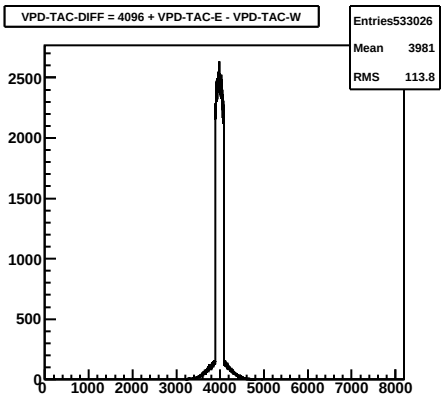

BBClarge-TAC-E
Entries 777494
Mean 1464
RMS 316.4

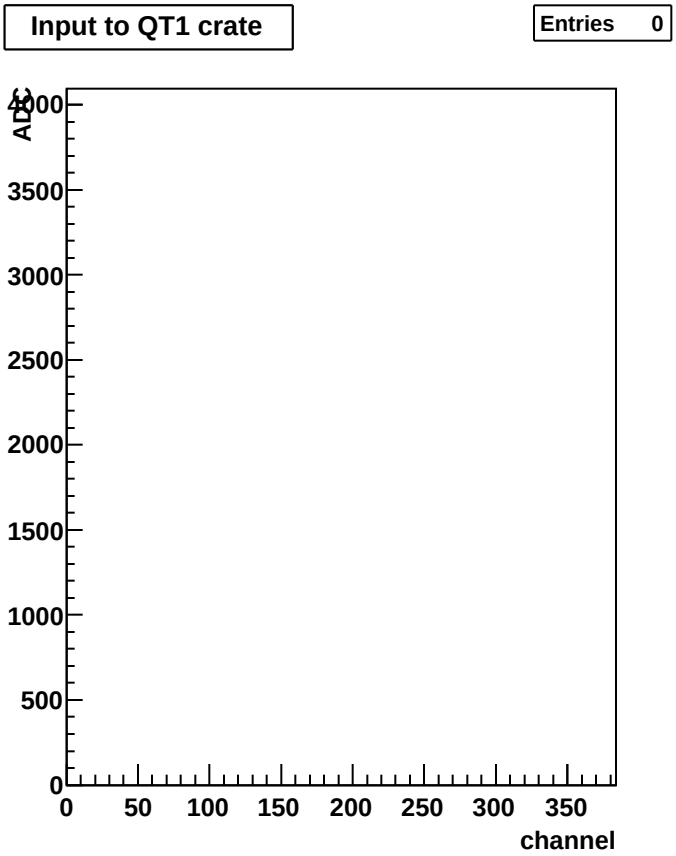

BBClarge-TAC-W
Entries 776056
Mean 1486
RMS 335.5

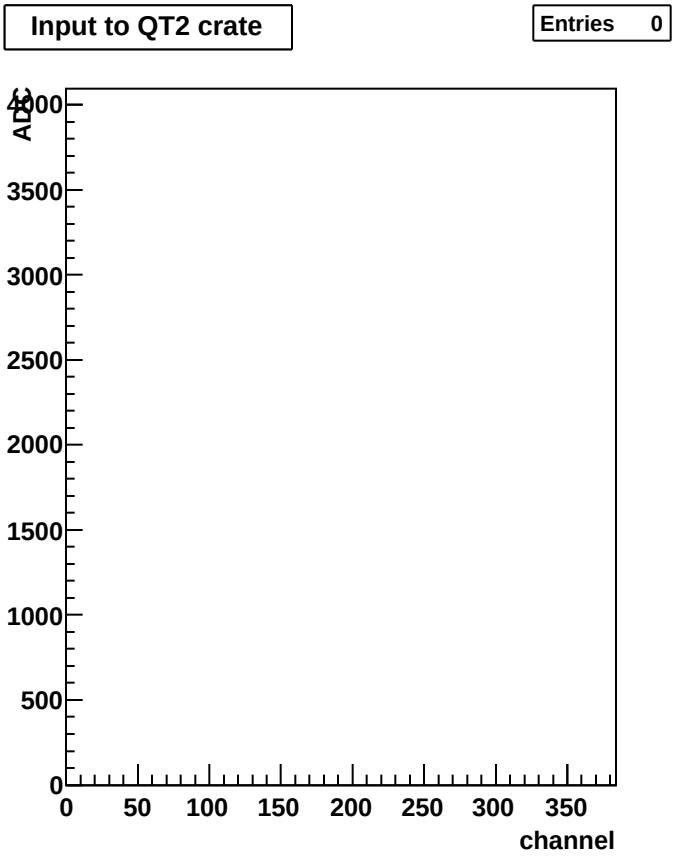

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 750649
Mean 4074
RMS 417.4

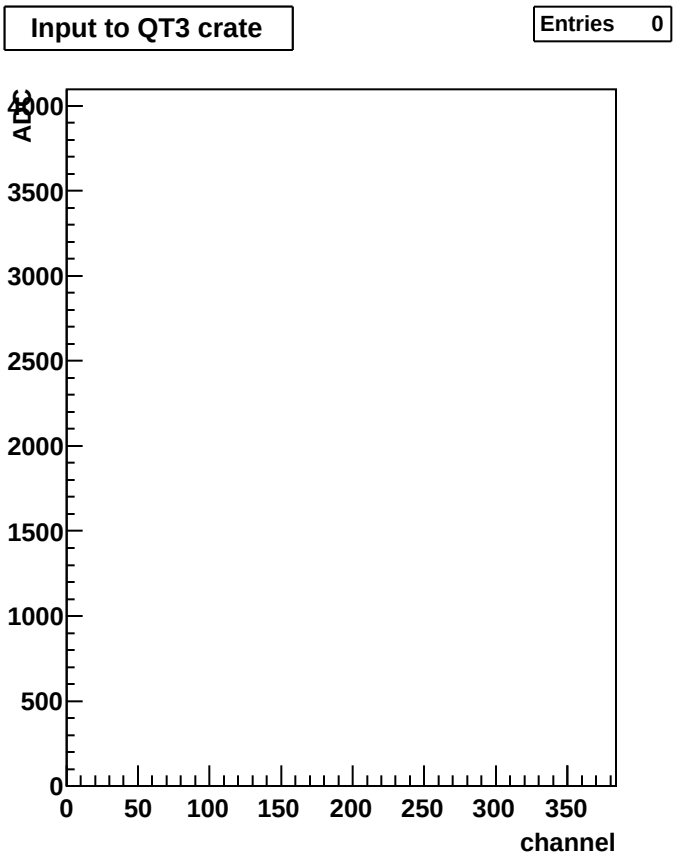

VPD-TAC-E
Entries 618701
Mean 1318
RMS 156.4

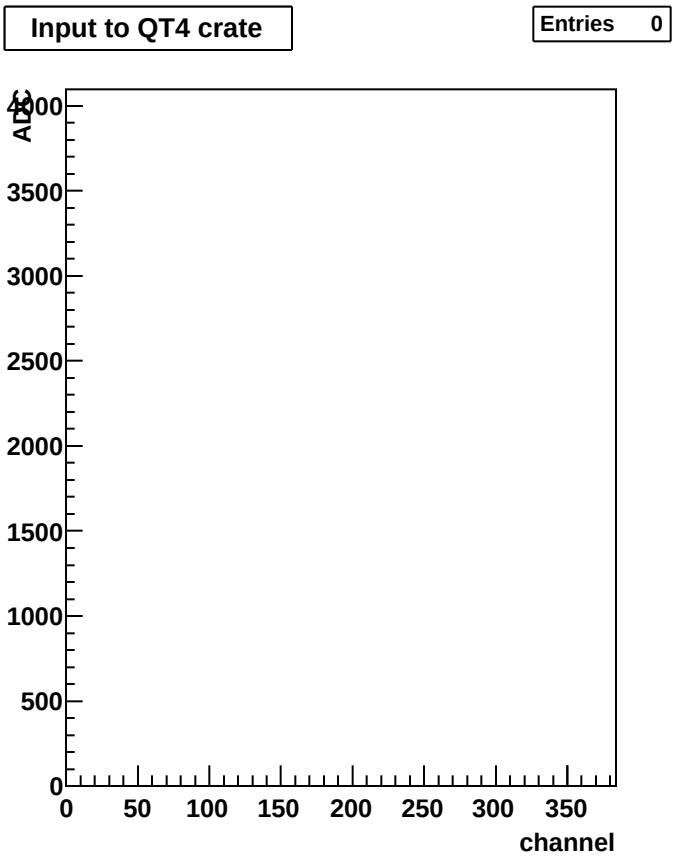

VPD-TAC-W
Entries 618851
Mean 1434
RMS 165.7

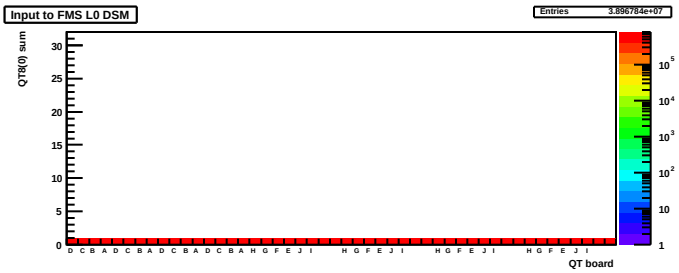

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 533026
Mean 3981
RMS 113.8

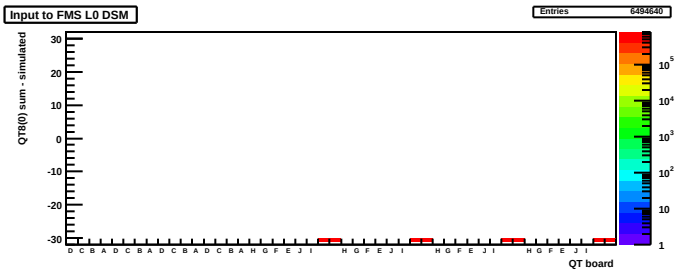

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

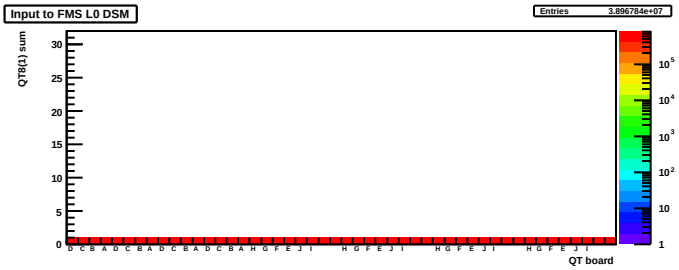

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

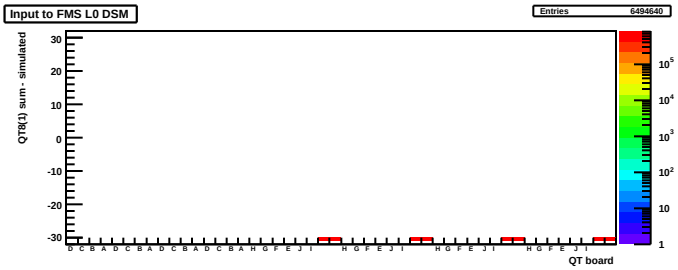

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

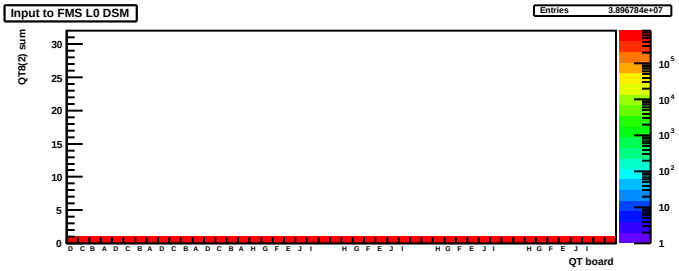

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

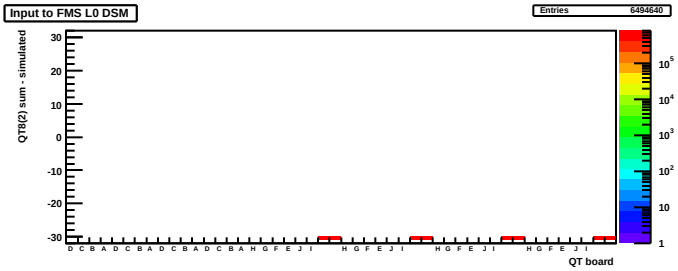

Input to FMS L0 DSM
Entries 3.896784e+07
QT8(0) sum
QT board

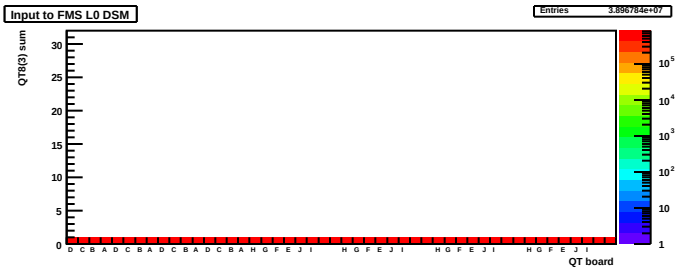

Input to FMS L0 DSM
Entries 6494640
QT8(0) sum - simulated
QT board

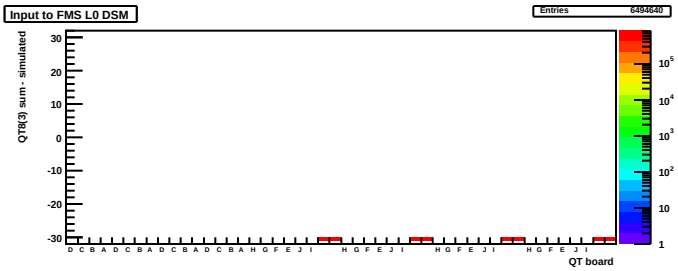

Input to FMS L0 DSM
Entries 3.896784e+07
QT8(1) sum
QT board

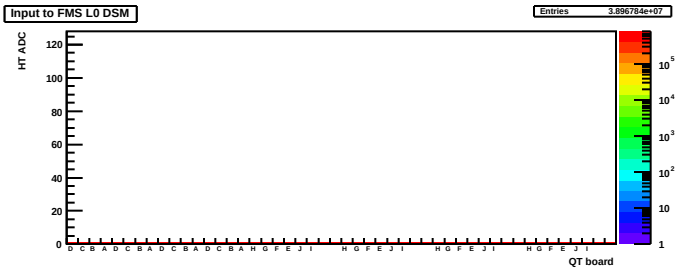

Input to FMS L0 DSM
Entries 6494640
QT8(1) sum - simulated
QT board

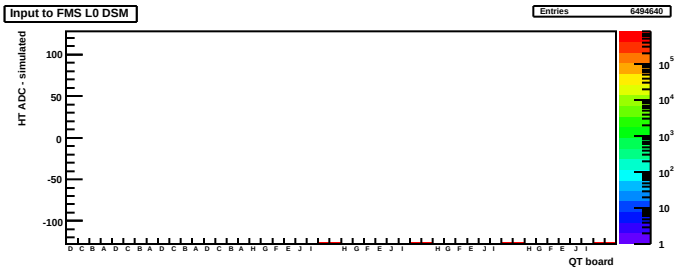

Input to FMS L0 DSM
Entries 3.896784e+07
QT8(2) sum
QT board

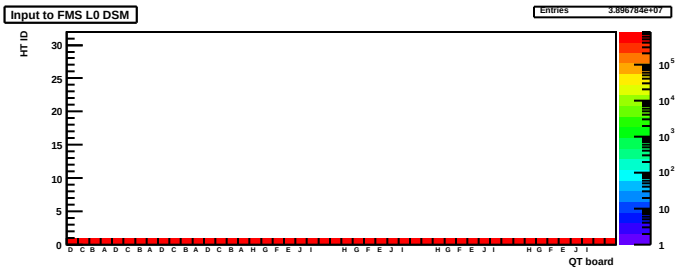

Input to FMS L0 DSM
Entries 6494640
QT8(2) sum - simulated
QT board

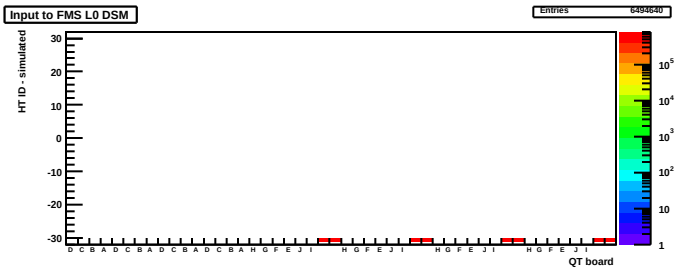

Input to FMS L0 DSM
Entries 3.896784e+07
QT8(3) sum
QT board

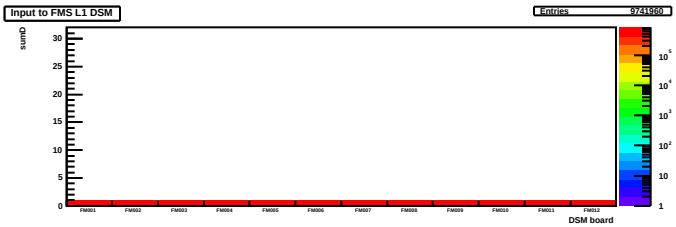

Input to FMS L0 DSM
Entries 6494640
QT8(3) sum - simulated
QT board

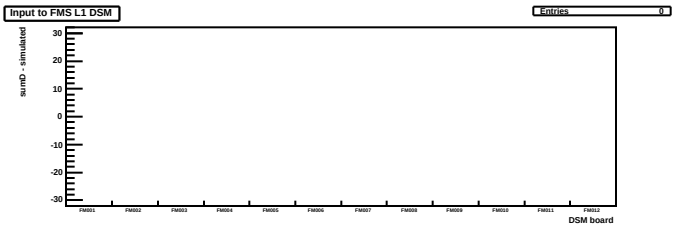

Input to FMS L0 DSM
Entries 3.896784e+07
HT ADC
QT board

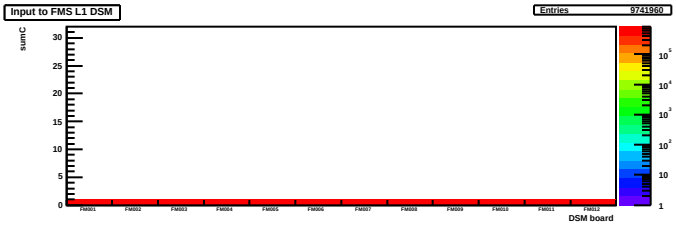

Input to FMS L0 DSM
Entries 6494640
HT ADC - simulated
QT board

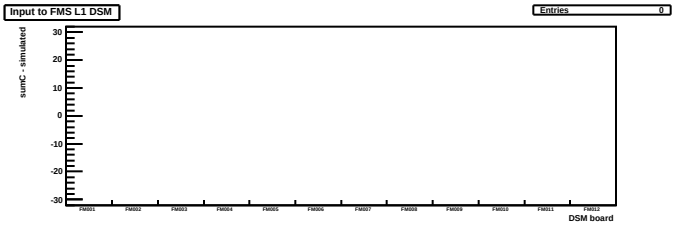

Input to FMS L0 DSM
Entries 3.896784e+07
HT ID
QT board

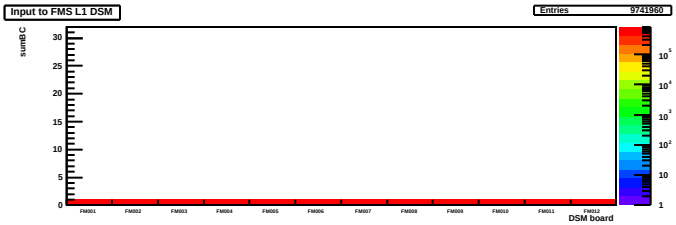

Input to FMS L0 DSM
Entries 6494640
HT ID - simulated
QT board

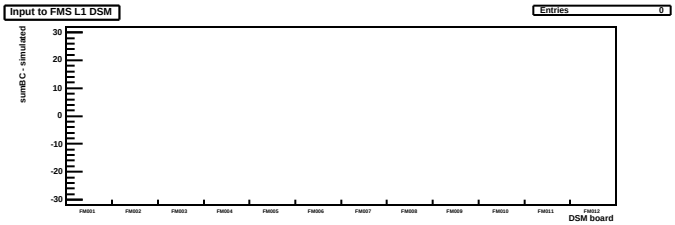

Input to FMS L1 DSM
Entries 9741960
sumD
DSM board

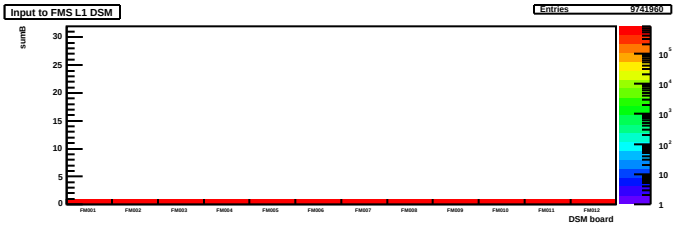

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

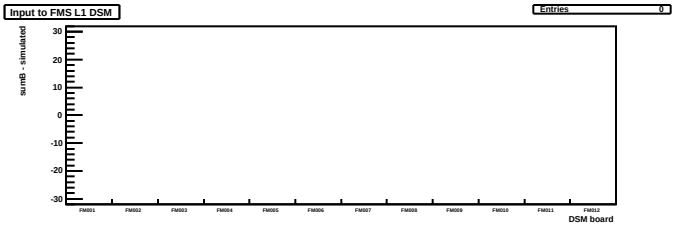

Input to FMS L1 DSM
Entries 9741960
sumC
DSM board

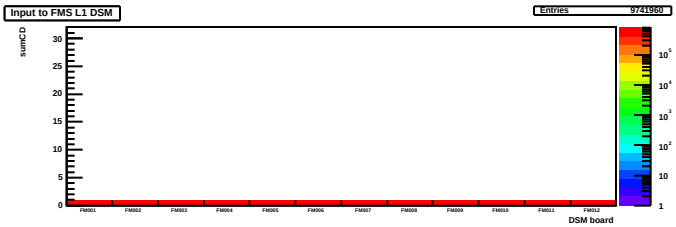

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

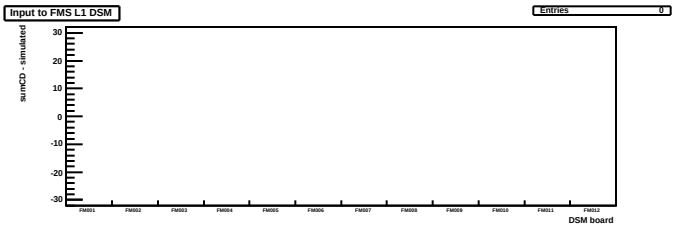

Input to FMS L1 DSM
Entries 9741960
sumBC
DSM board

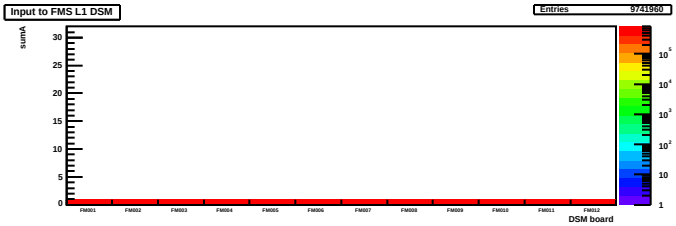

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

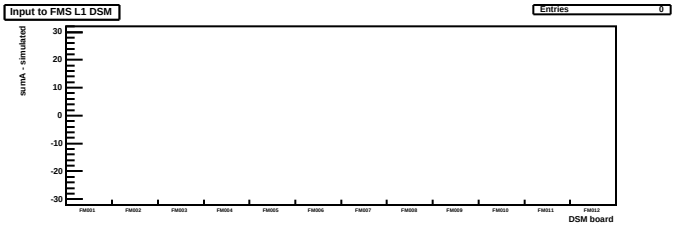

Input to FMS L1 DSM
Entries 9741960
sumB
DSM board

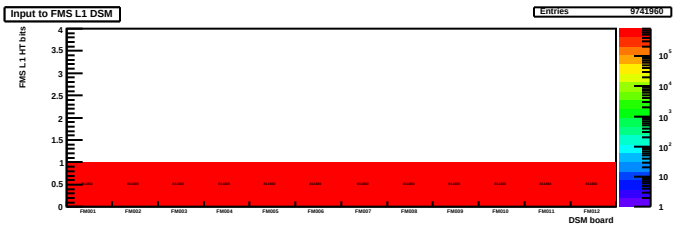

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

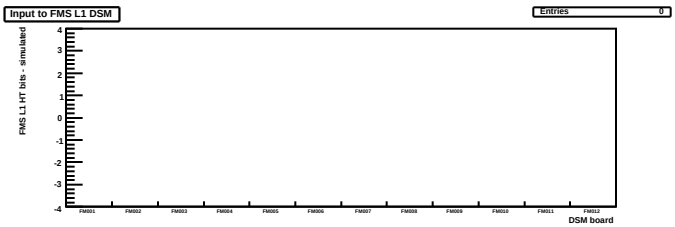

Input to FMS L1 DSM
Entries 9741960
sumCD
DSM board

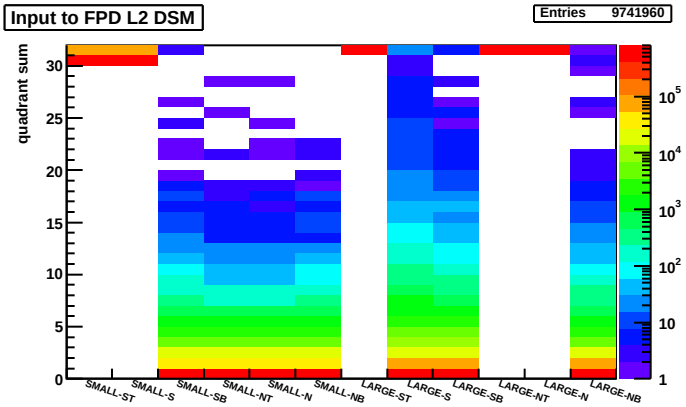

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

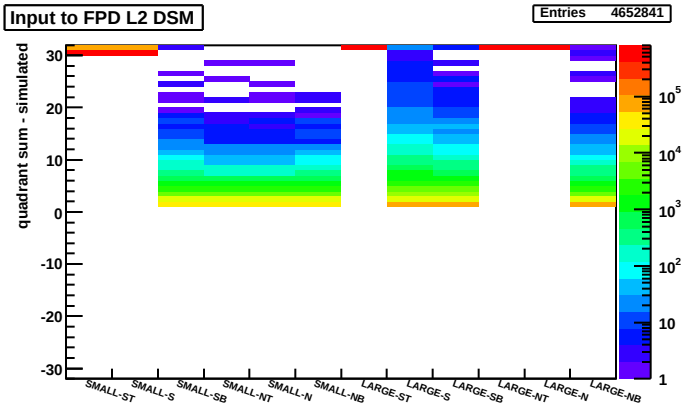

Input to FMS L1 DSM
Entries 9741960
sumA
DSM board

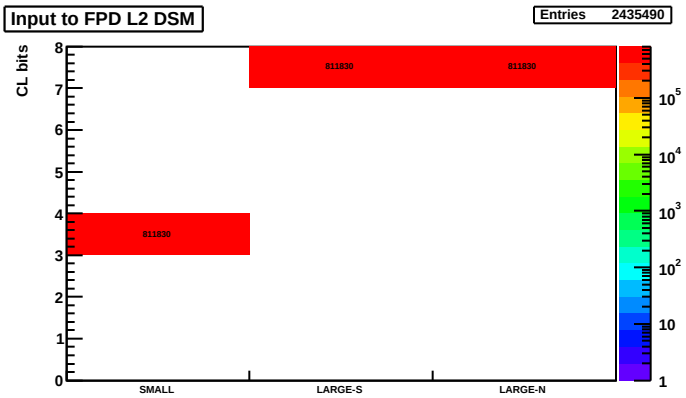

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

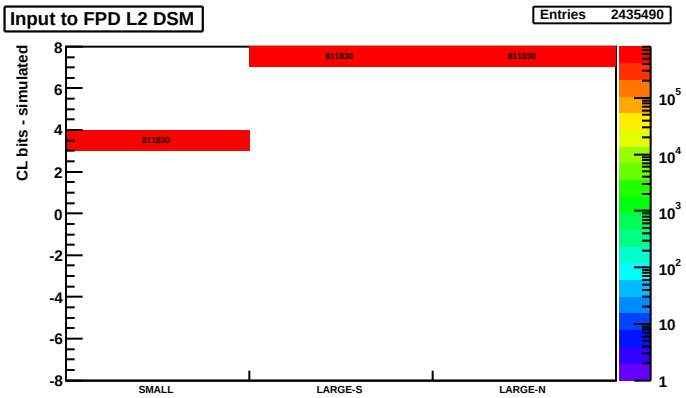

Input to FMS L1 DSM
Entries 9741960
FMS L1 HT bits
DSM board

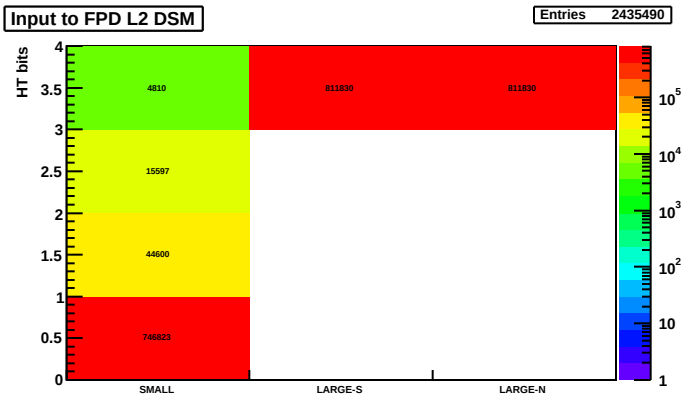

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

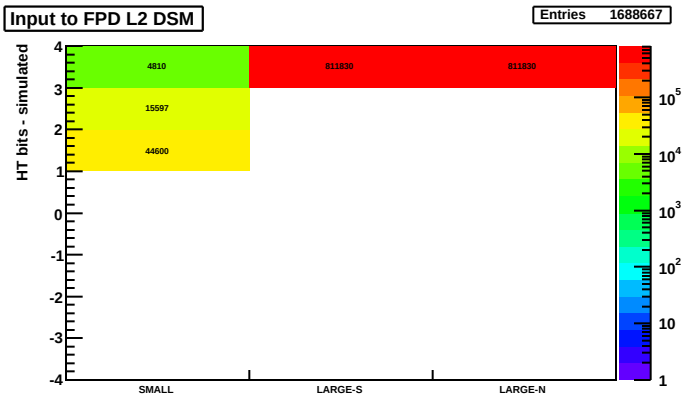

Input to FPD L2 DSM
Entries 9741960
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

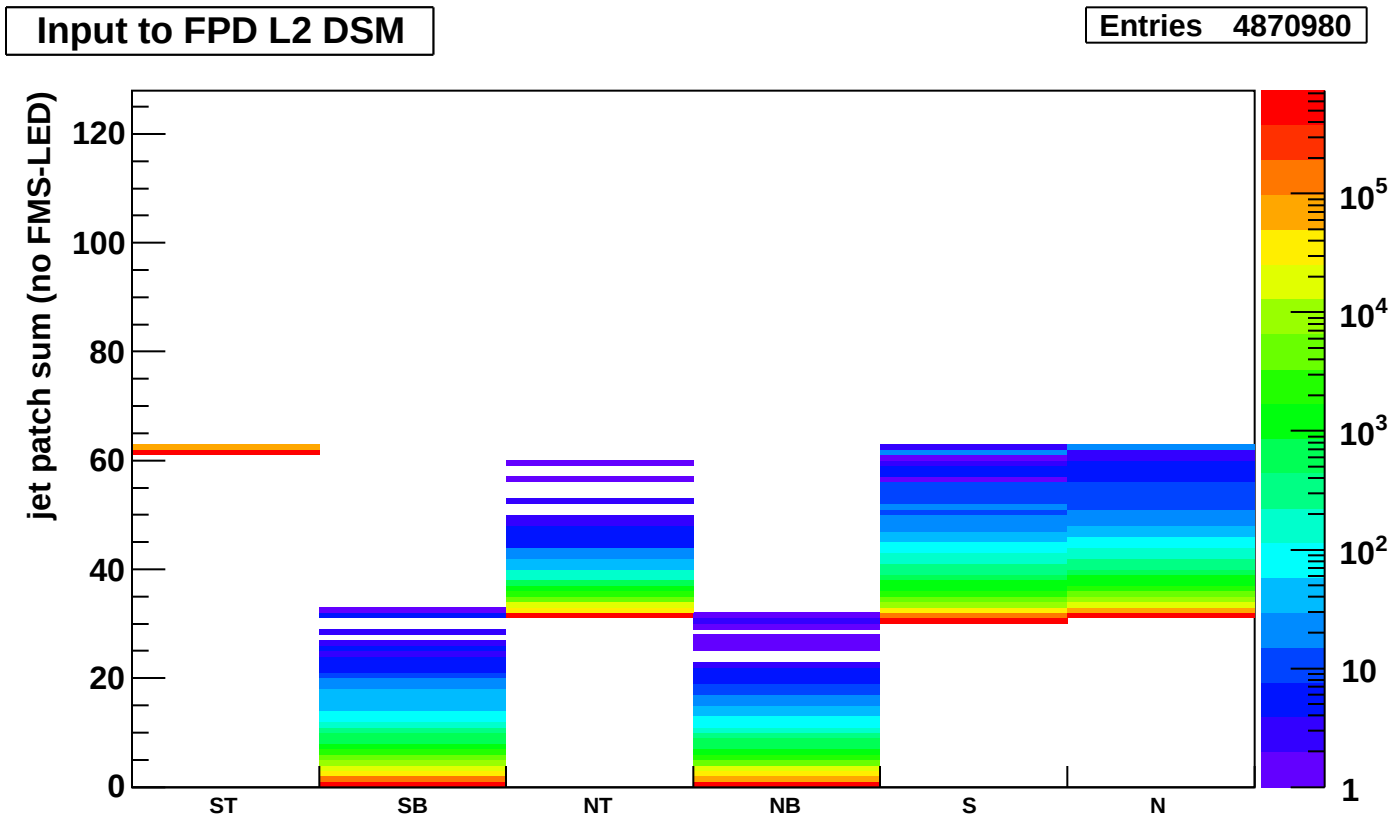

Input to FPD L2 DSM
Entries 4652841
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

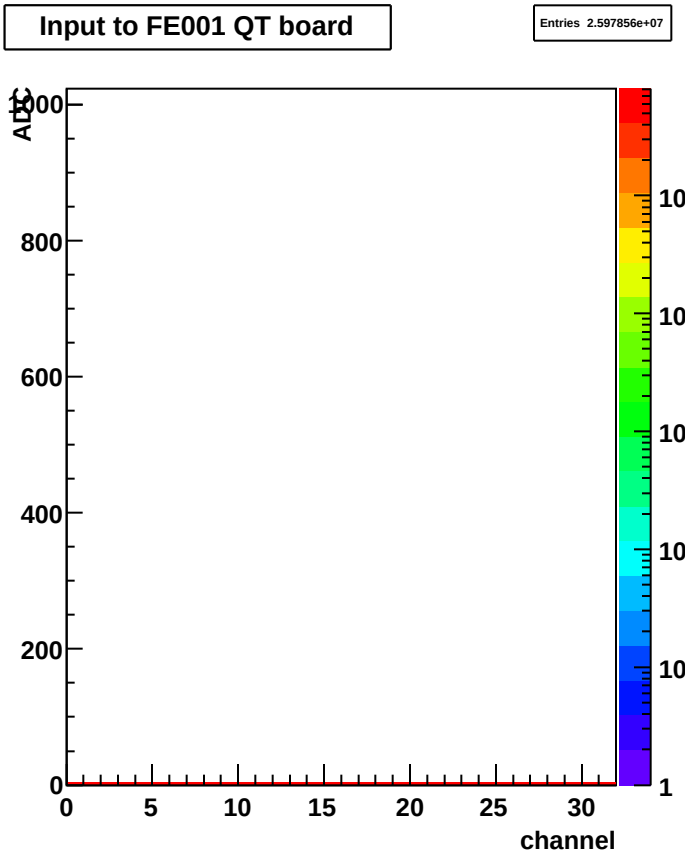

Input to FPD L2 DSM
Entries 2435490
CL bits
811830
811830
811830
SMALL
LARGE-S
LARGE-N

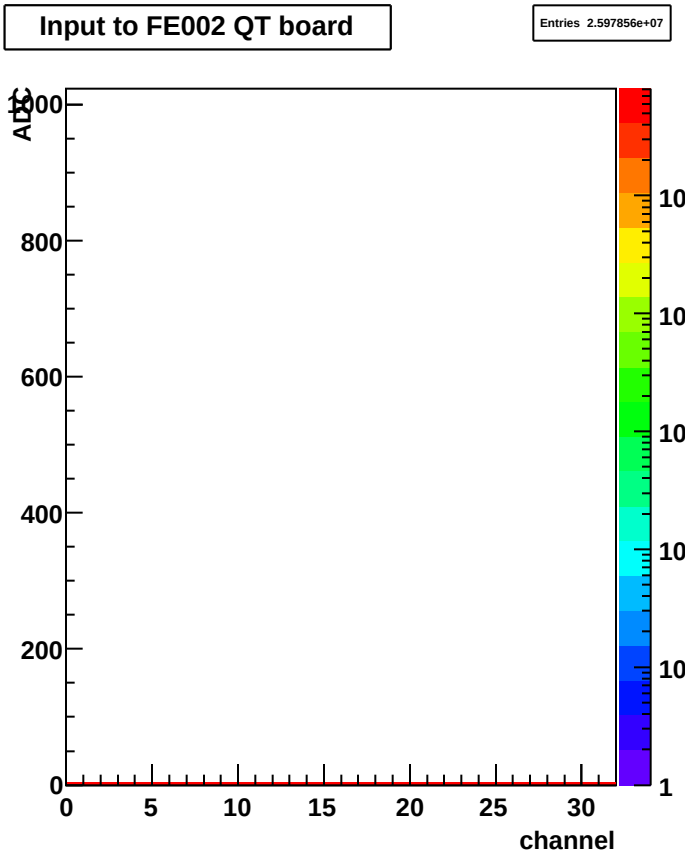

Input to FPD L2 DSM
Entries 2435490
CL bits - simulated
811830
811830
811830
SMALL
LARGE-S
LARGE-N

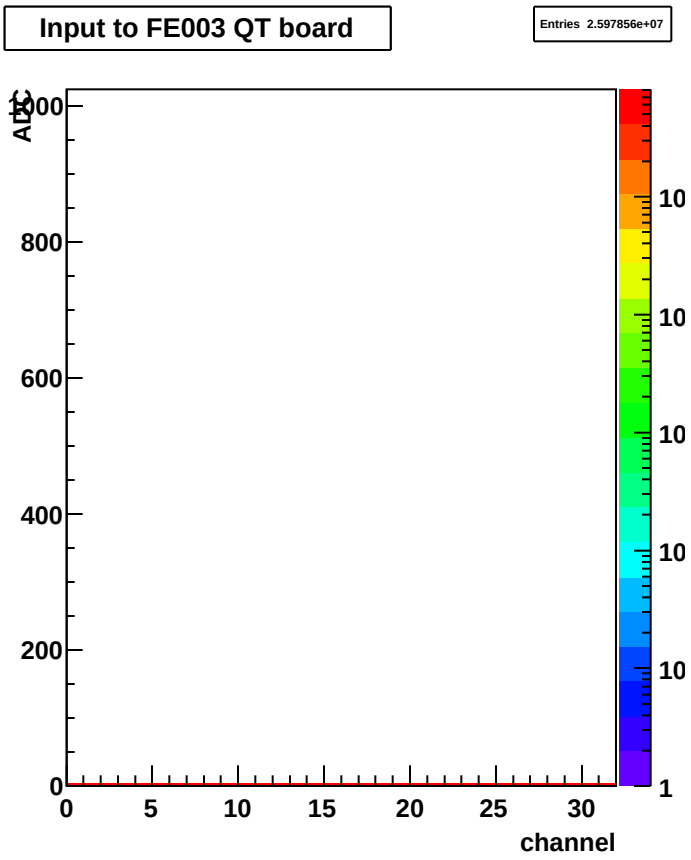

Input to FPD L2 DSM
Entries 2435490
HT bits
4810
15597
44600
746823
811830
811830
SMALL
LARGE-S
LARGE-N

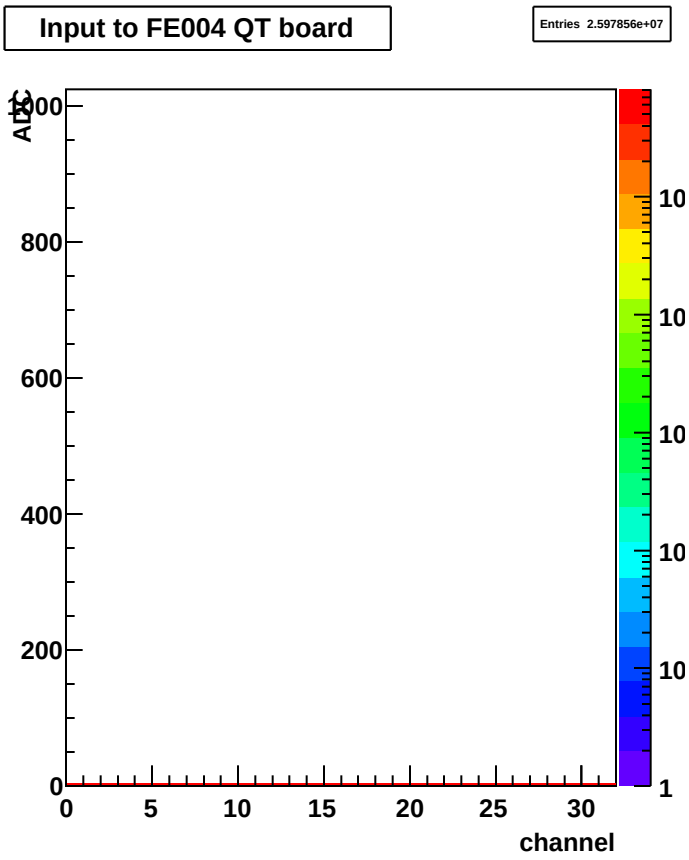

Input to FPD L2 DSM
Entries 1688667
HT bits - simulated
4810
15597
44600
811830
811830
SMALL
LARGE-S
LARGE-N

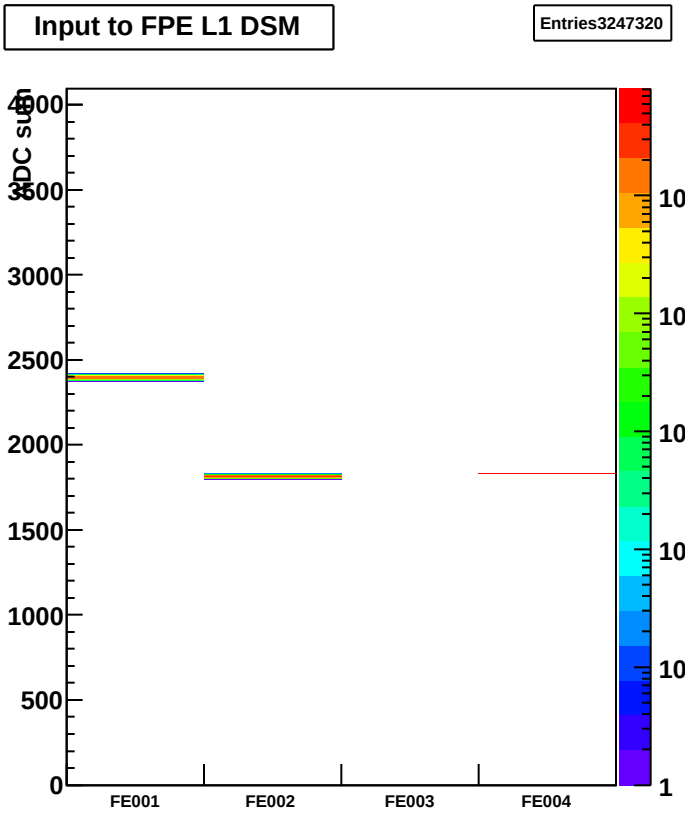

Input to FPD L2 DSM
Entries 4870980
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

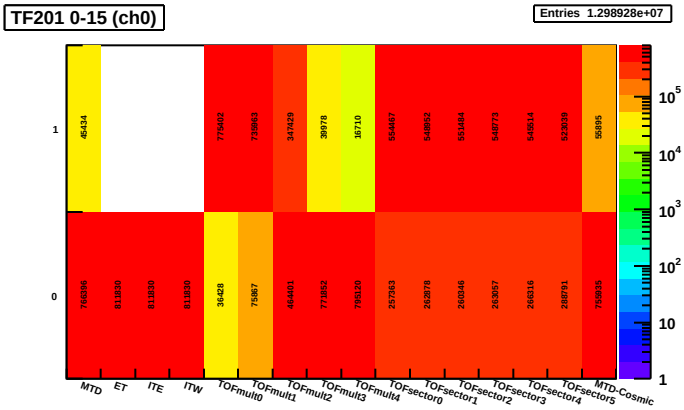

Input to FE001 QT board
Entries 2.597856e+07
ADC
channel

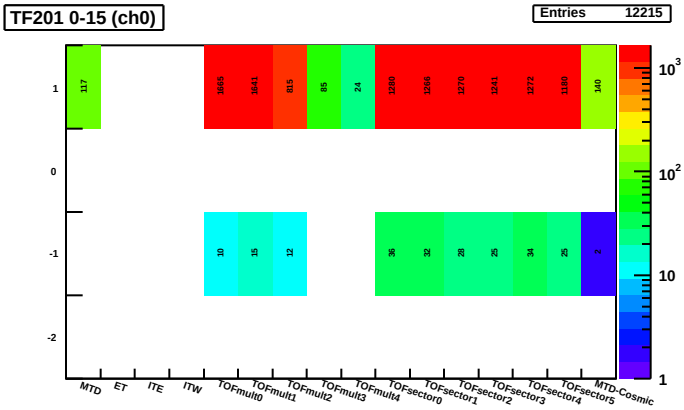

Input to FE002 QT board
Entries 2.597856e+07
ADC
channel

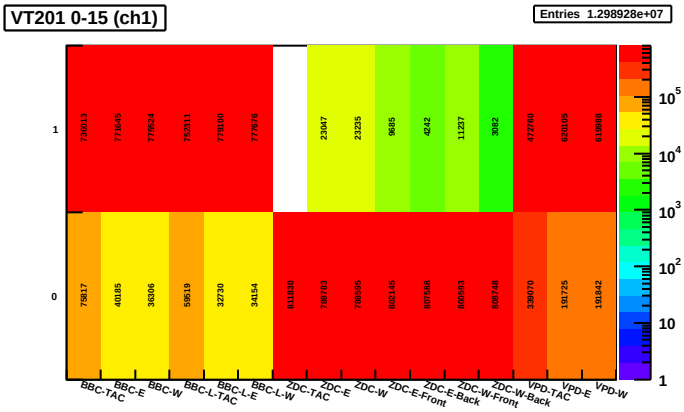

Input to FE003 QT board
Entries 2.597856e+07
ADC
channel

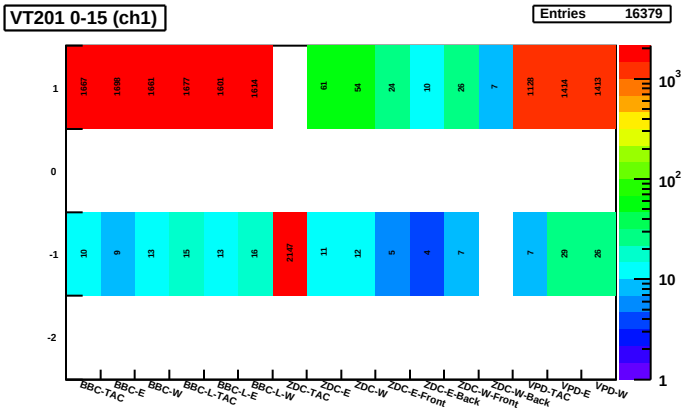

Input to FE004 QT board
Entries 2.597856e+07
ADC
channel

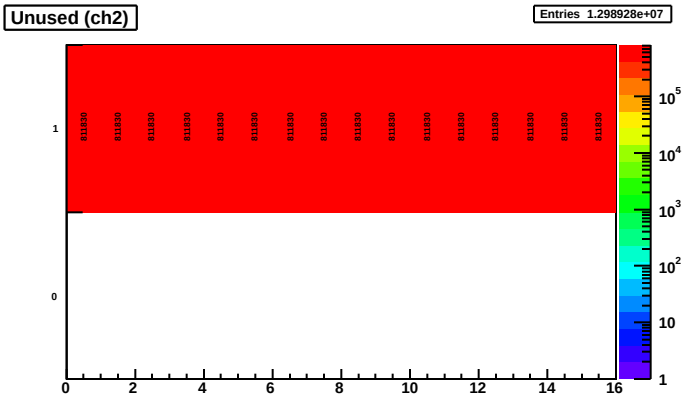

Input to FPE L1 DSM
Entries3247320
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

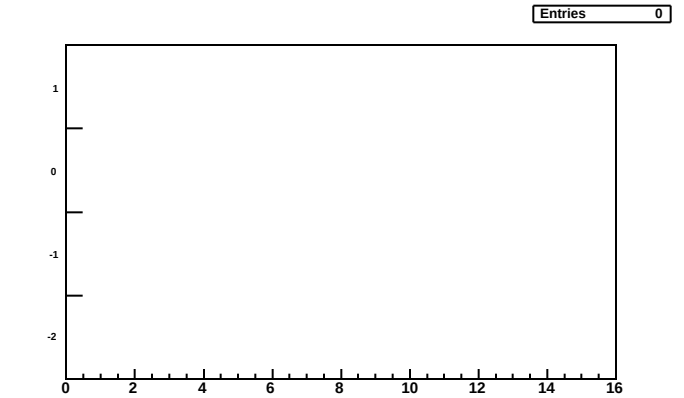

TF201 0-15 (ch0)
Entries 1.298928e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

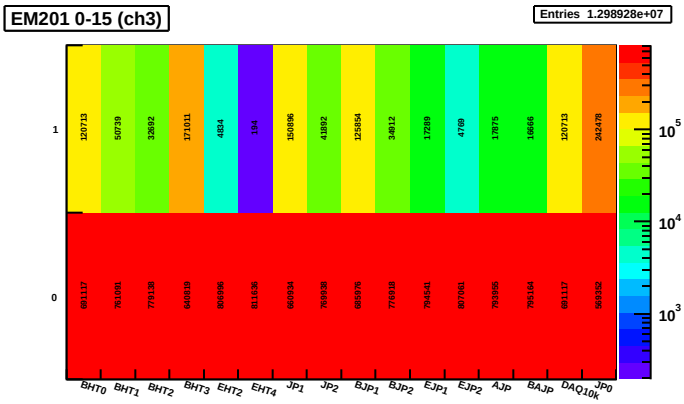

TF201 0-15 (ch0)
Entries 12215
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

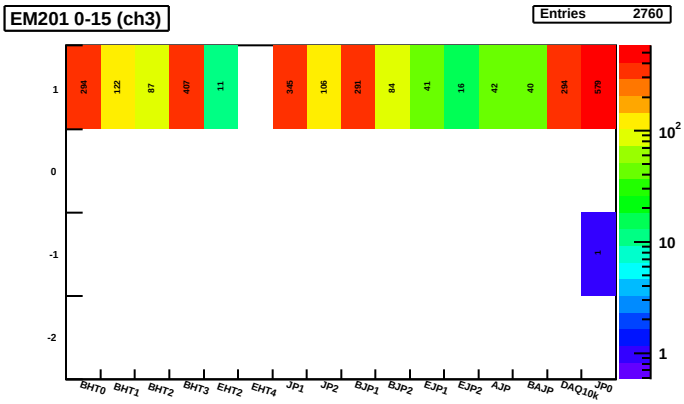

VT201 0-15 (ch1)
Entries 1.298928e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

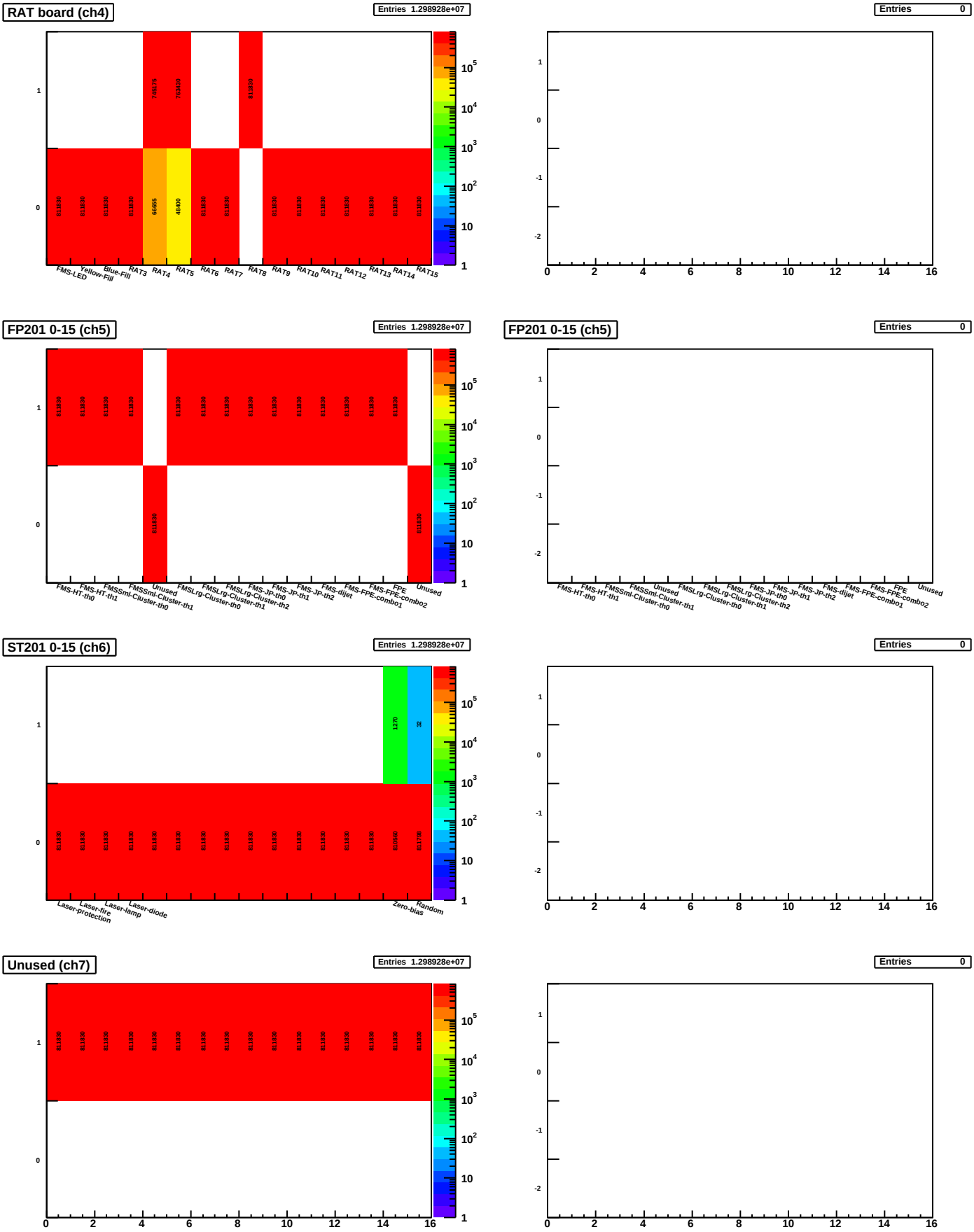

VT201 0-15 (ch1)
Entries 16379
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 1.298928e+07


Entries 0


EM201 0-15 (ch3)
Entries 1.298928e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 2760
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


RAT board (ch4)
Entries 1.298928e+07
Entries 0
FMS-LED
Yellow-Fill
Blue-Fill
RAT3
RAT4
RAT5
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15
FP201 0-15 (ch5)
Entries 1.298928e+07
Entries 0
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-dijet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused
ST201 0-15 (ch6)
Entries 1.298928e+07
Entries 0
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random
Unused (ch7)
Entries 1.298928e+07
Entries 0