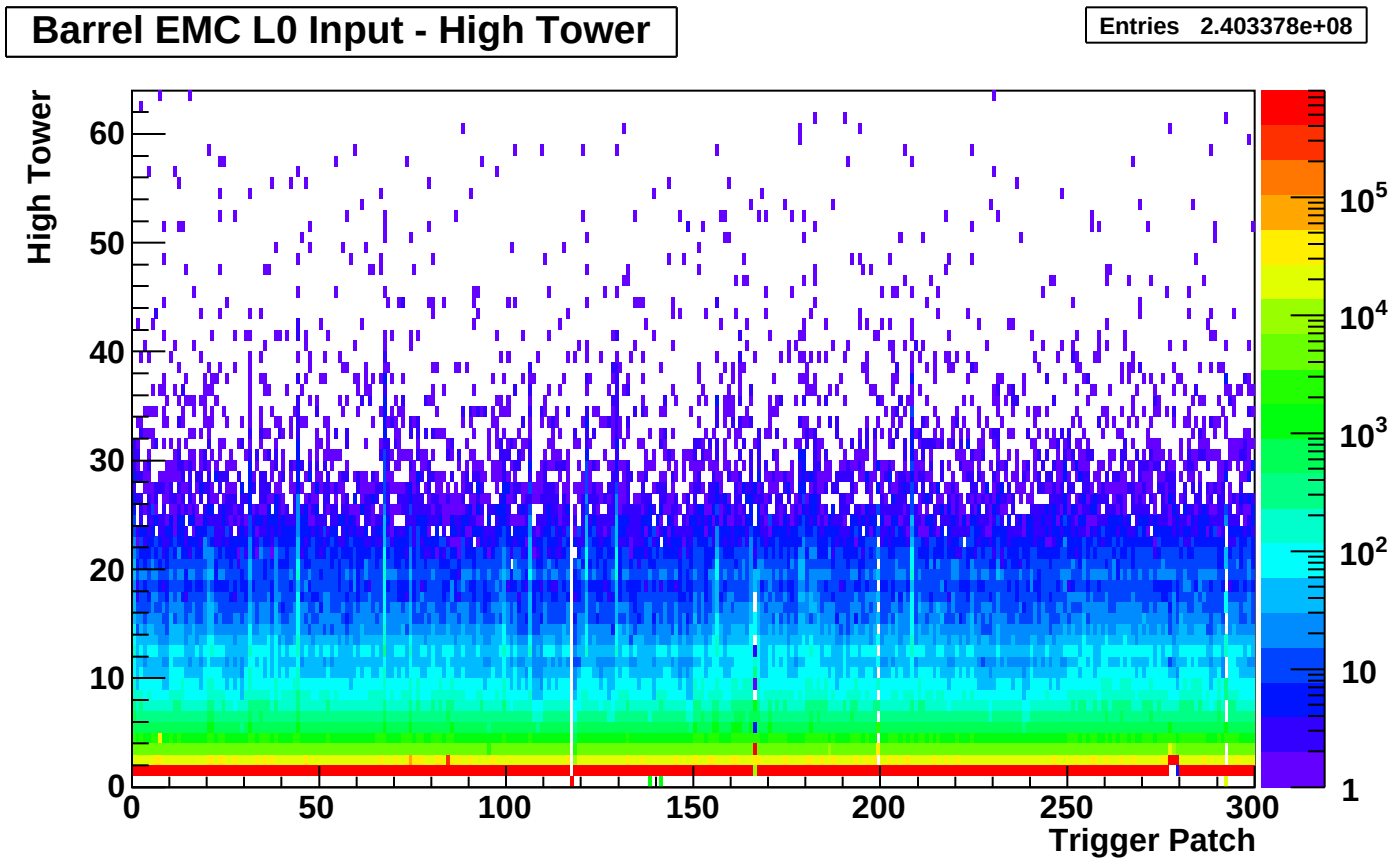
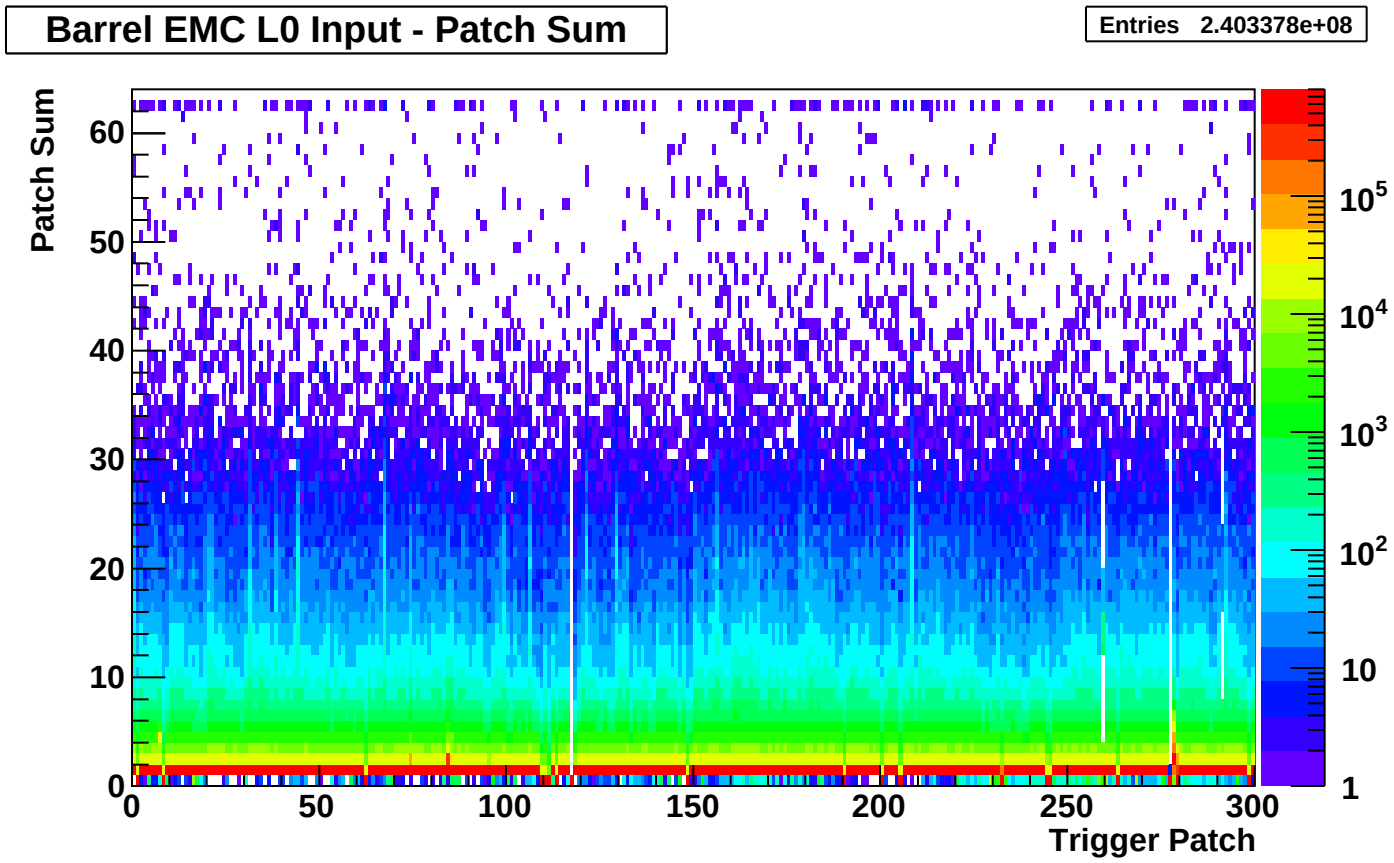
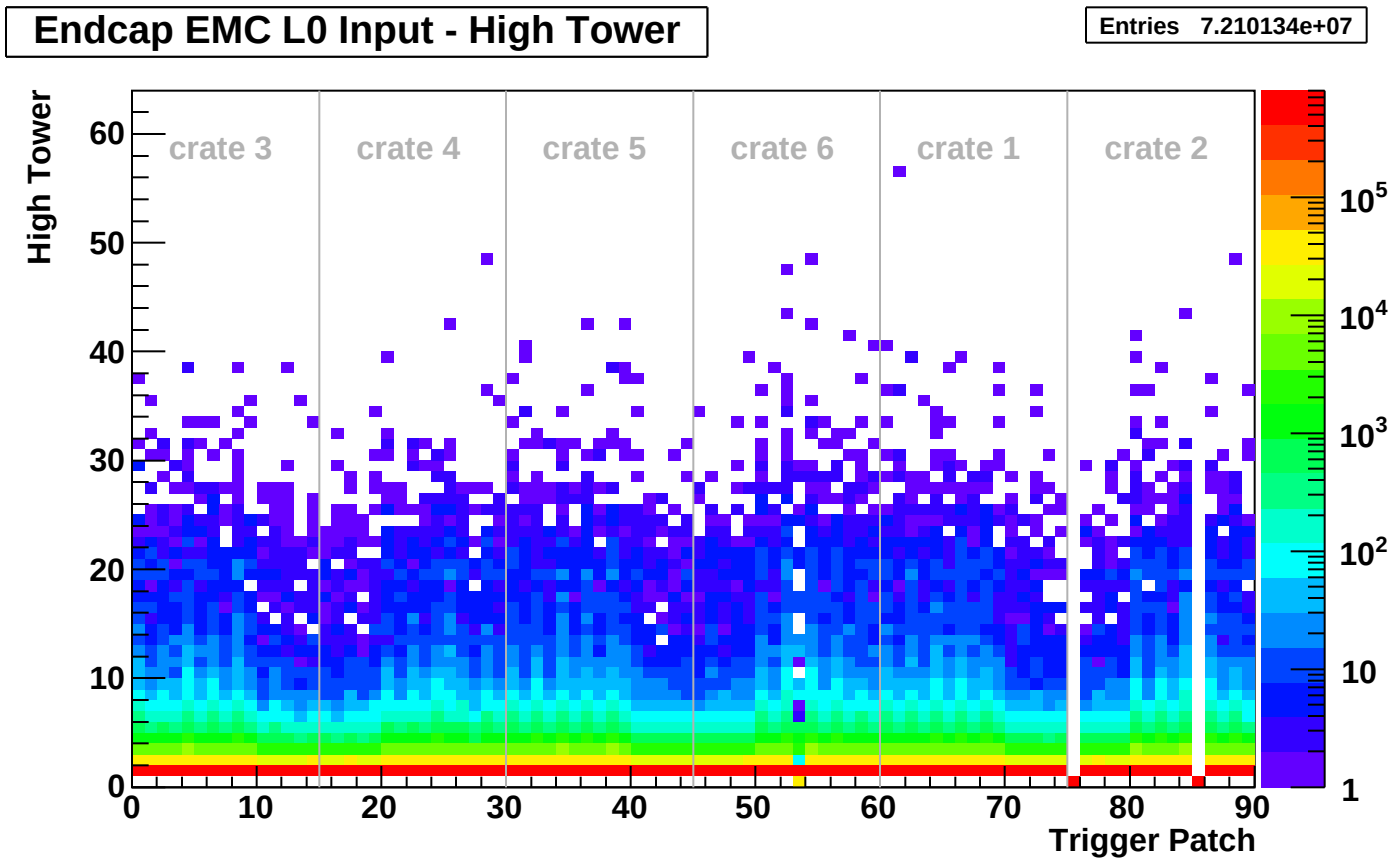
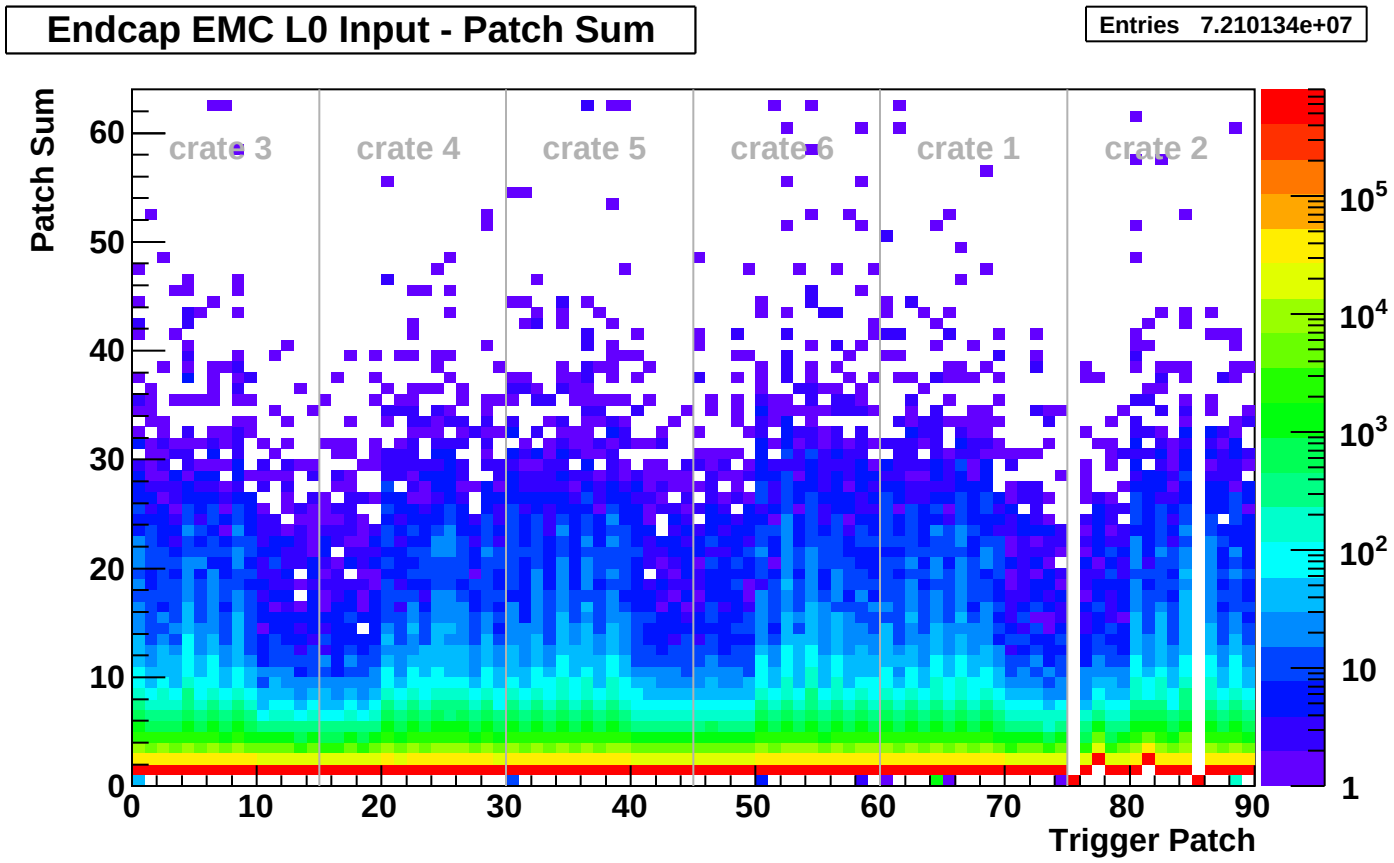
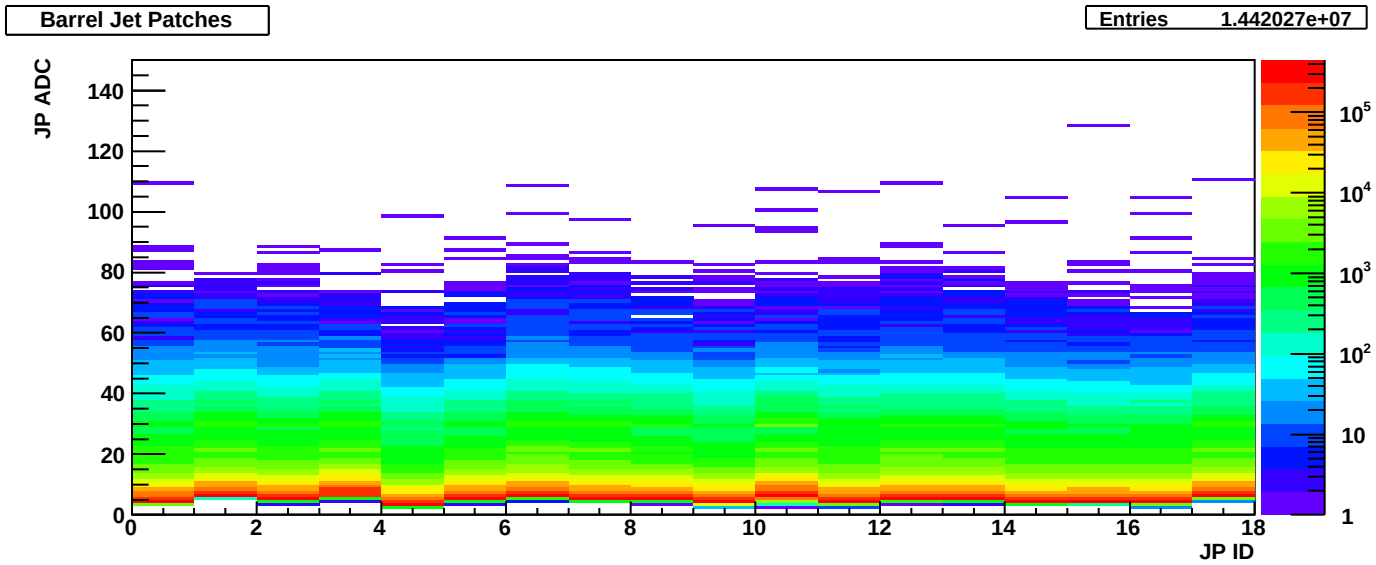
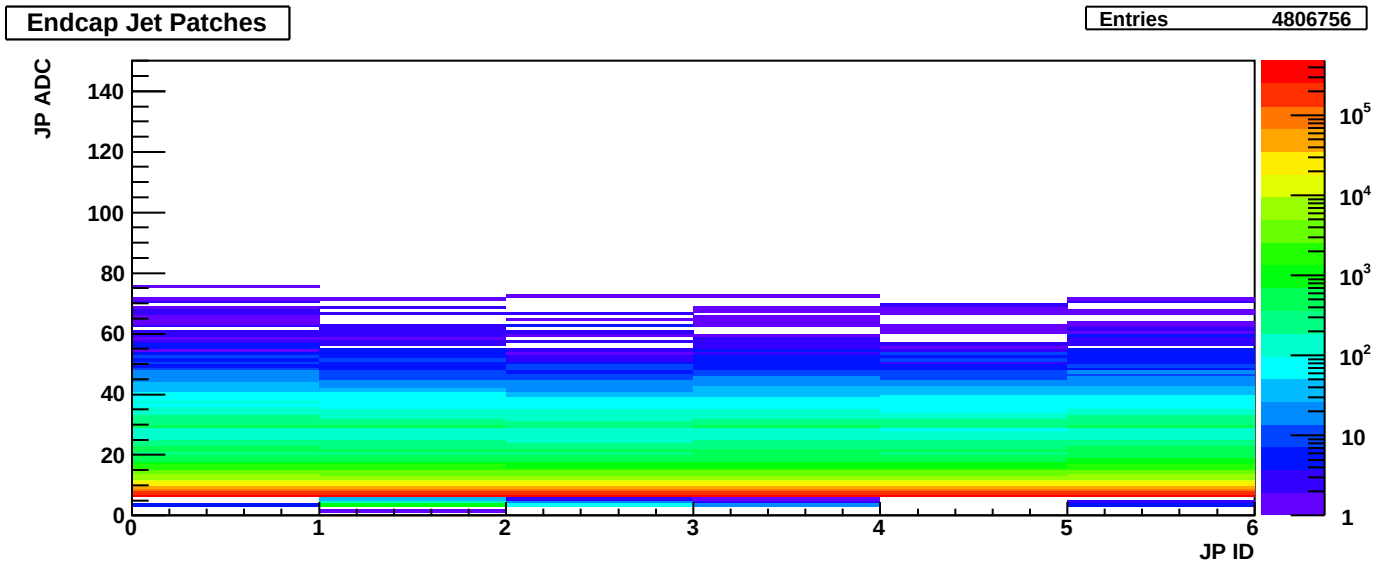

Barrel EMC L0 Input - High Tower
Entries 2.403378e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

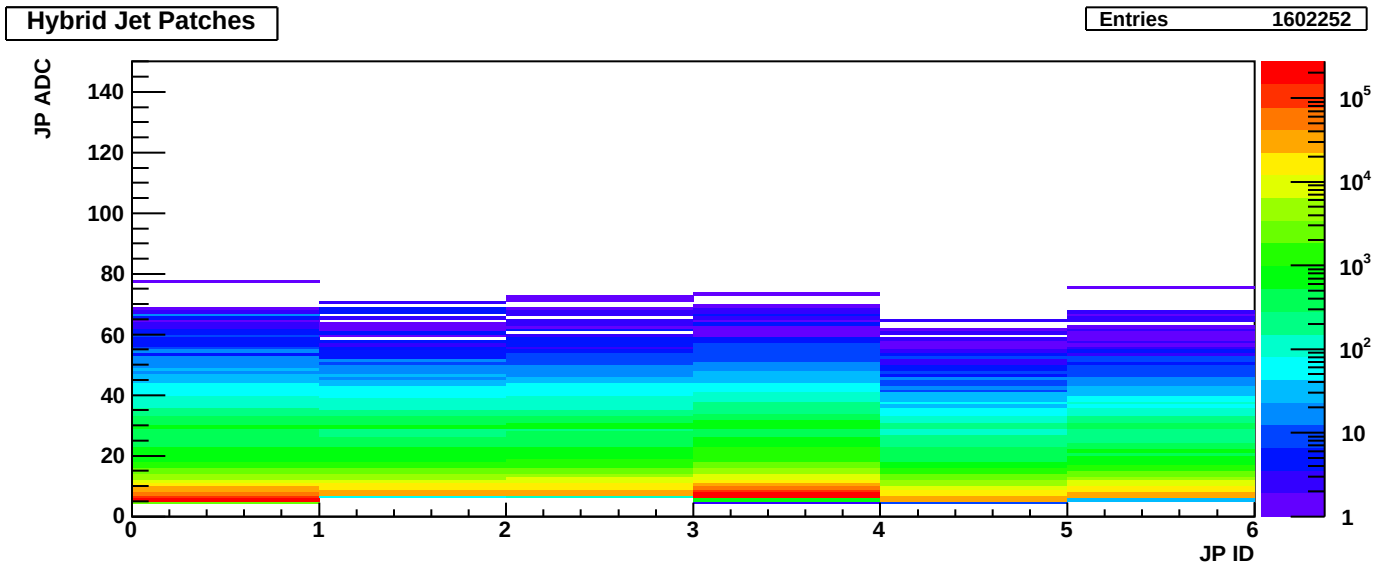

Barrel EMC L0 Input - Patch Sum
Entries 2.403378e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

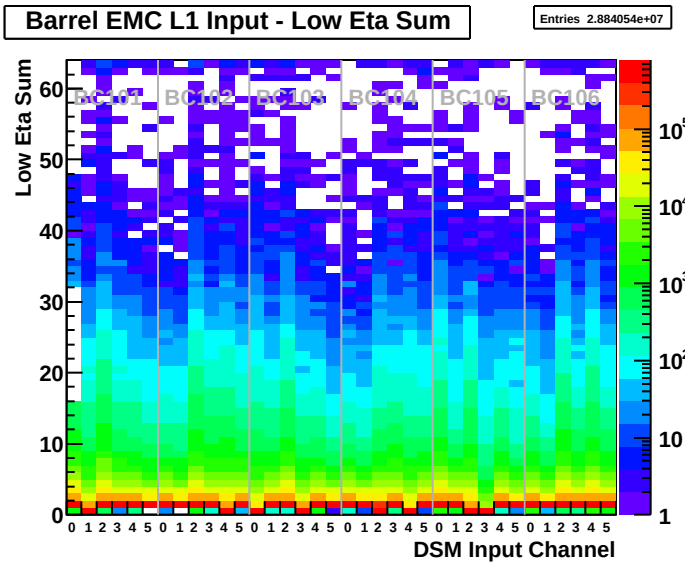

Endcap EMC L0 Input - High Tower
Entries 7.210134e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

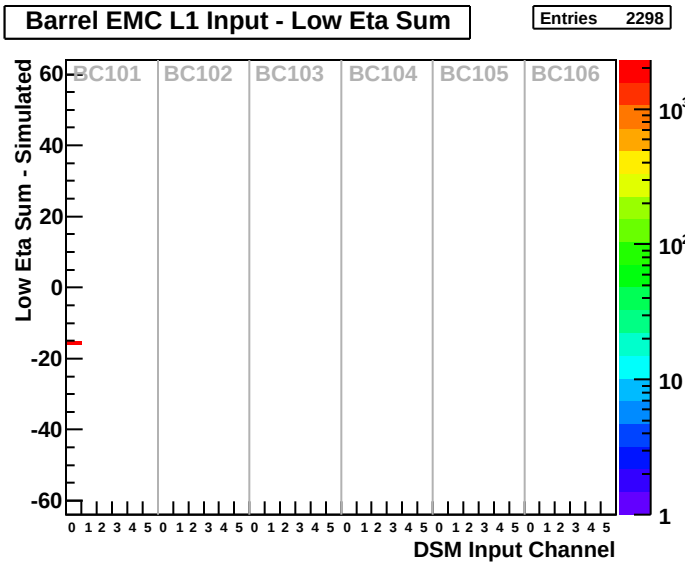

Endcap EMC L0 Input - Patch Sum
Entries 7.210134e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

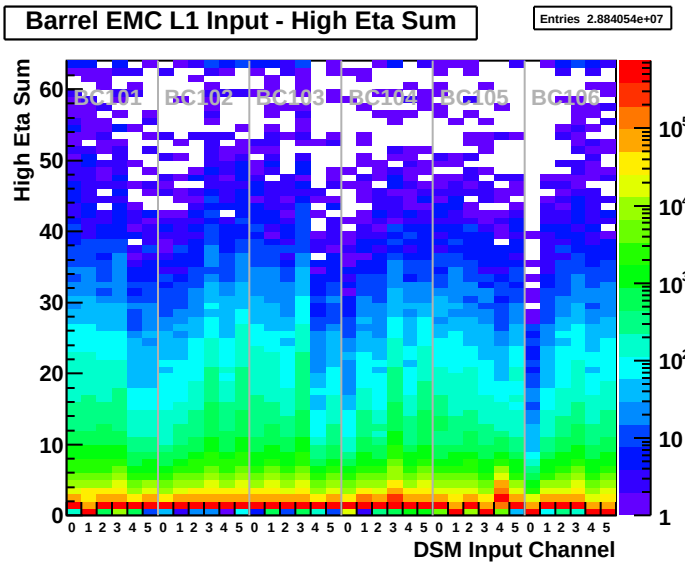

Barrel Jet Patches
Entries 1.442027e+07
JP ADC
JP ID

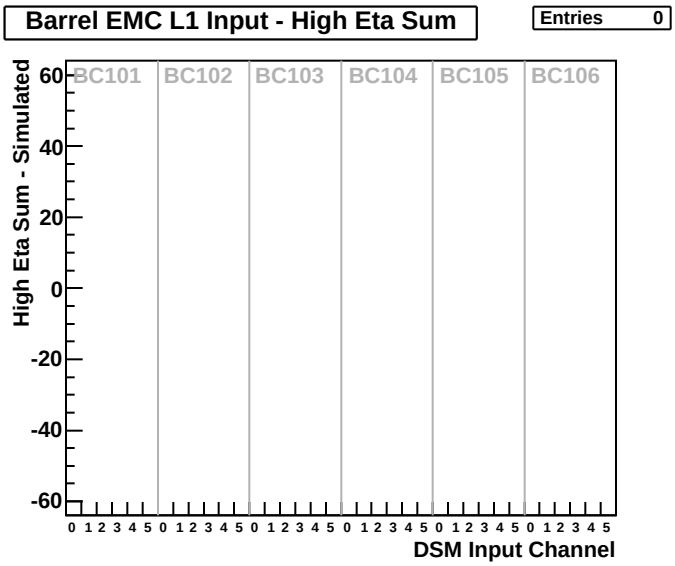

Endcap Jet Patches
Entries 4806756
JP ADC
JP ID

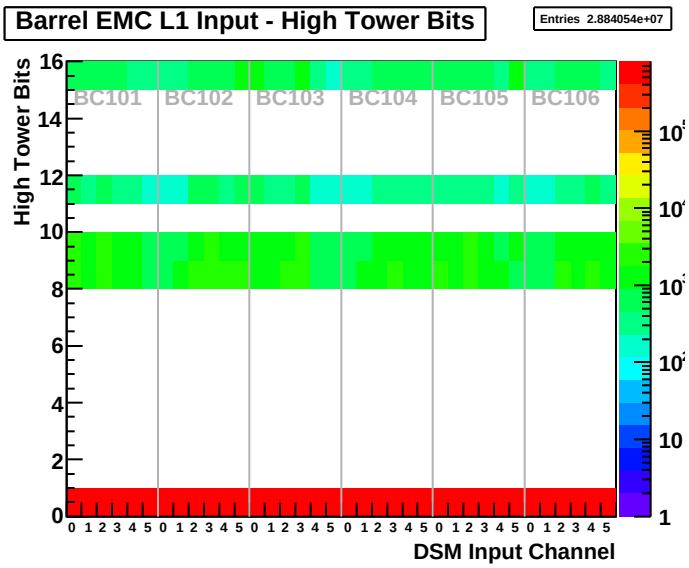

Hybrid Jet Patches
Entries 1602252
JP ADC
JP ID

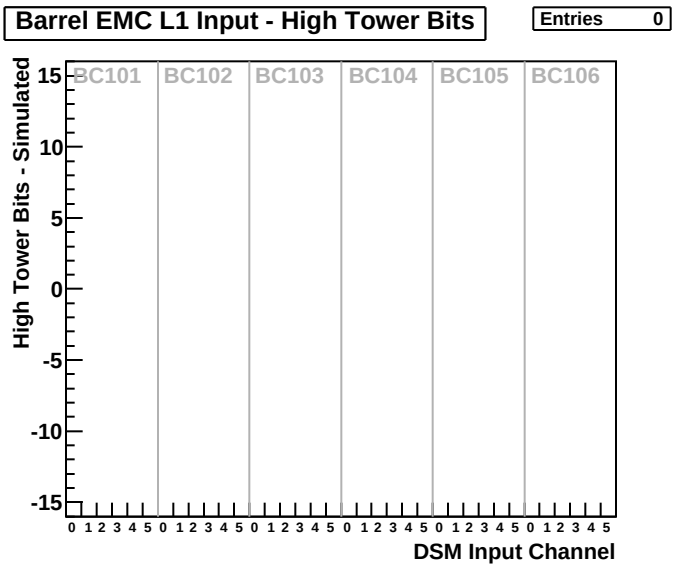

Barrel EMC L1 Input - Low Eta Sum
Entries 2.884054e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

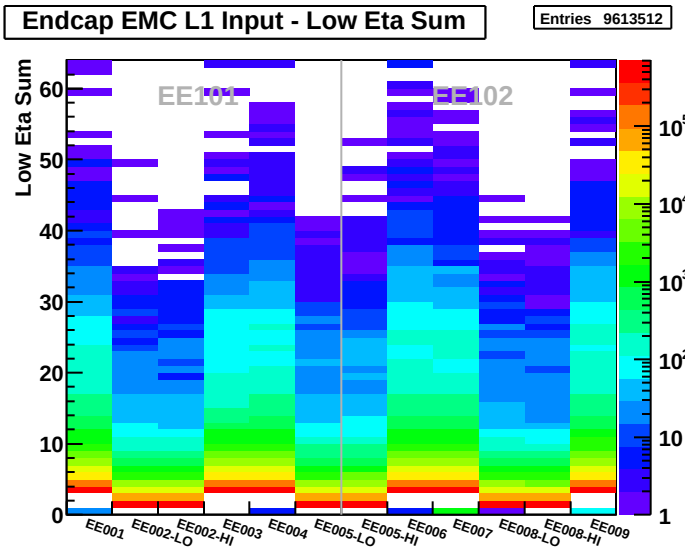

Barrel EMC L1 Input - Low Eta Sum
Entries 2298
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

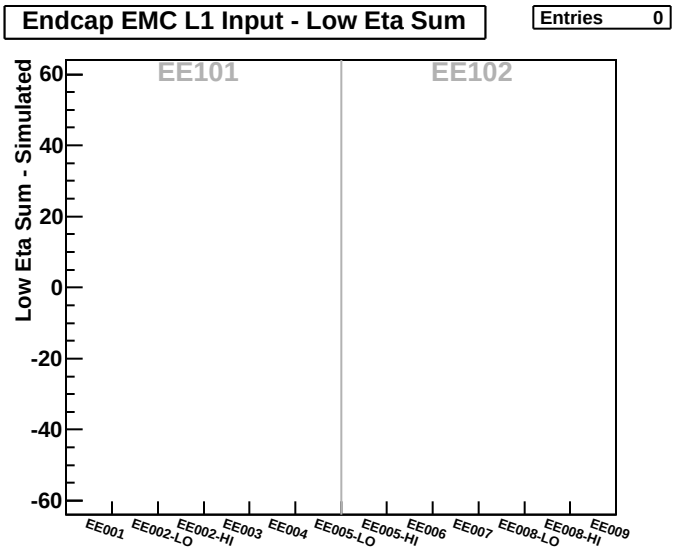

Barrel EMC L1 Input - High Eta Sum
Entries 2.884054e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

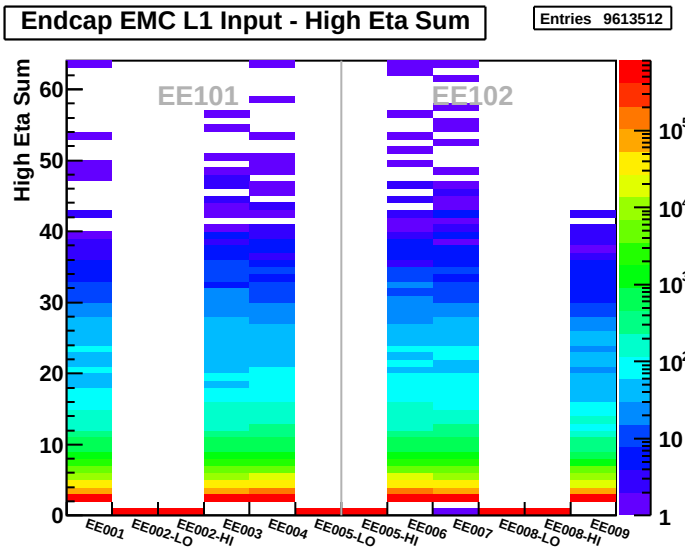

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

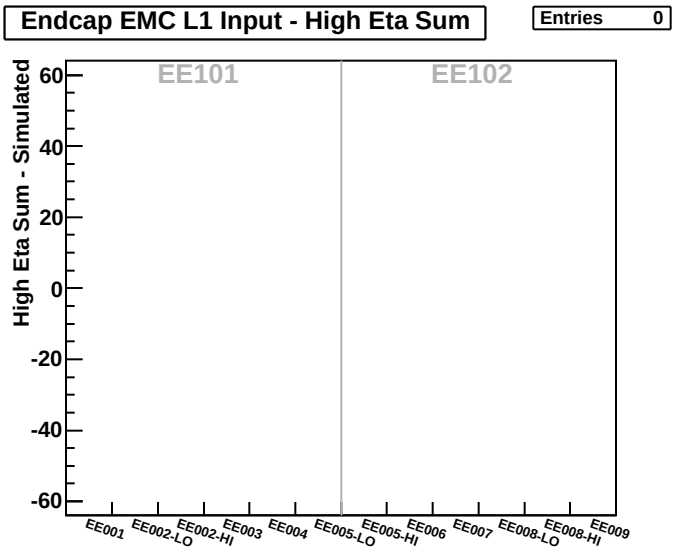

Barrel EMC L1 Input - High Tower Bits
Entries 2.884054e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

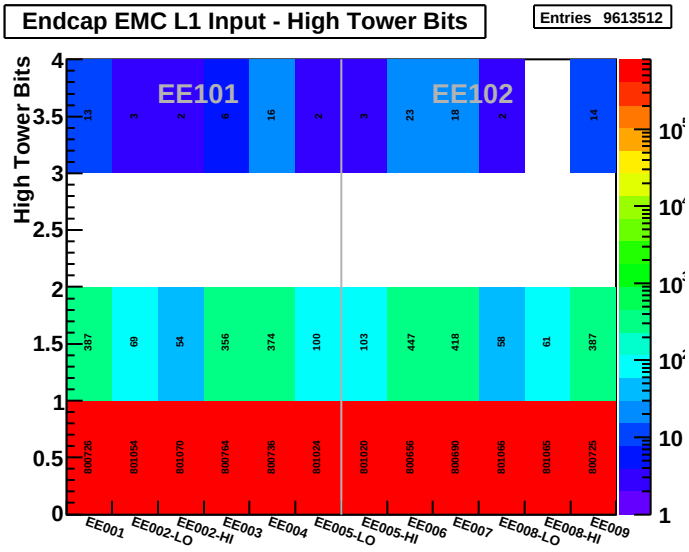

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

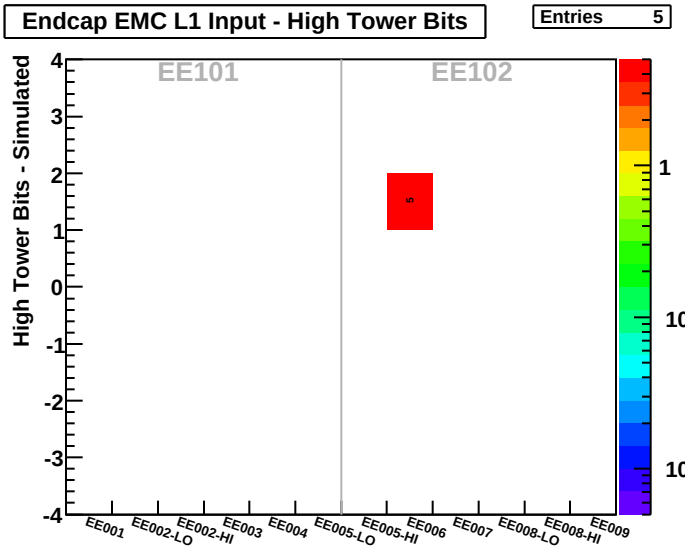

Endcap EMC L1 Input - Low Eta Sum
Entries 9613512
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

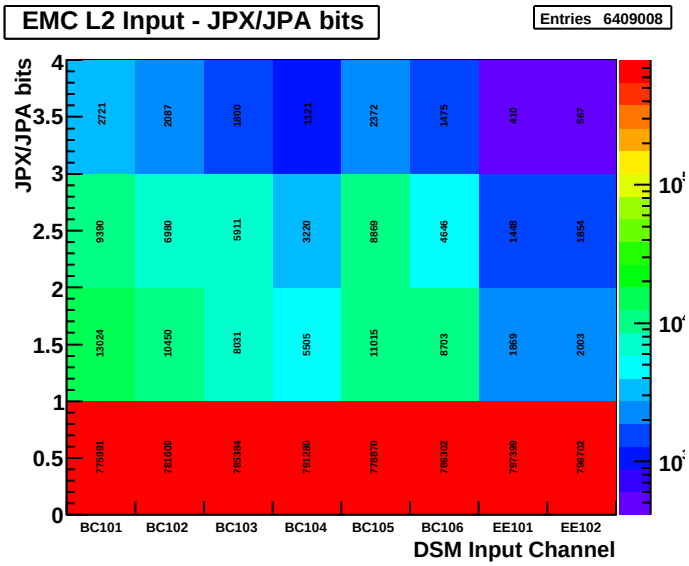

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

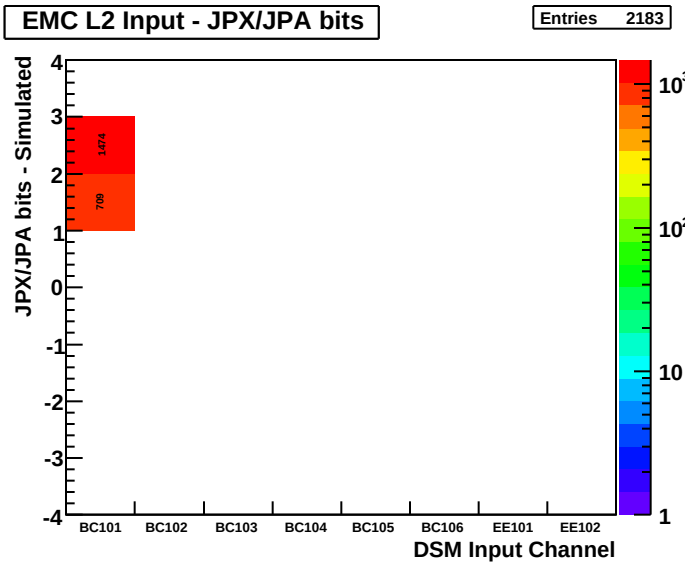

Endcap EMC L1 Input - High Eta Sum
Entries 9613512
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

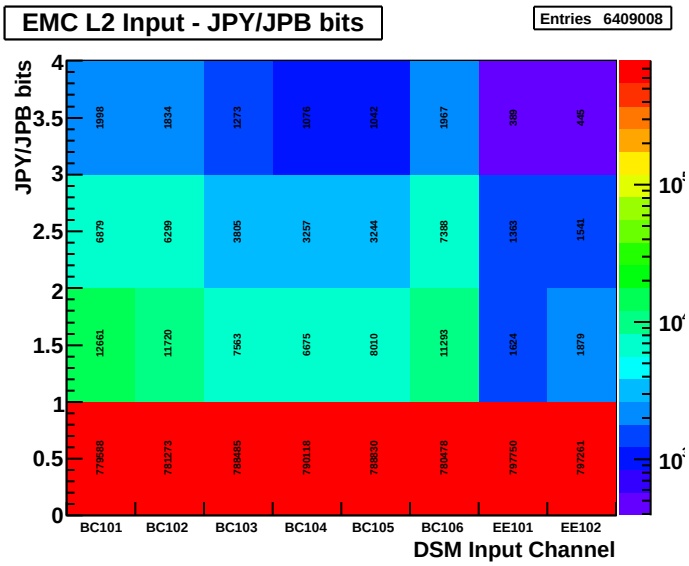

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

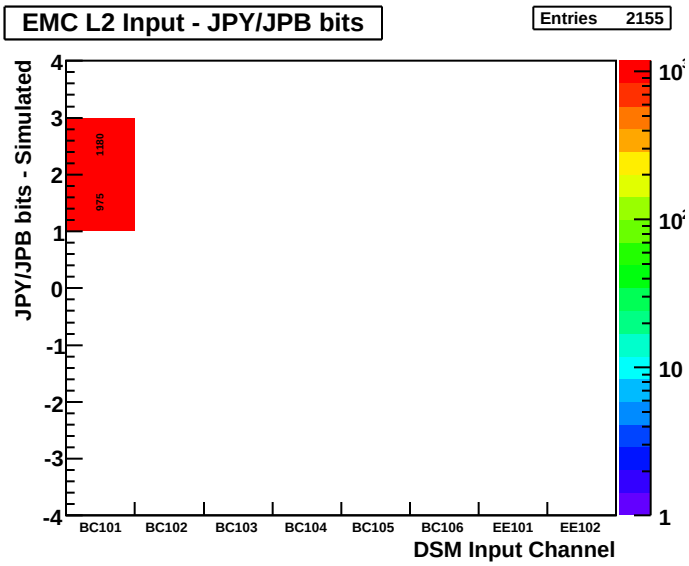

Endcap EMC L1 Input - High Tower Bits
Entries 9613512
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

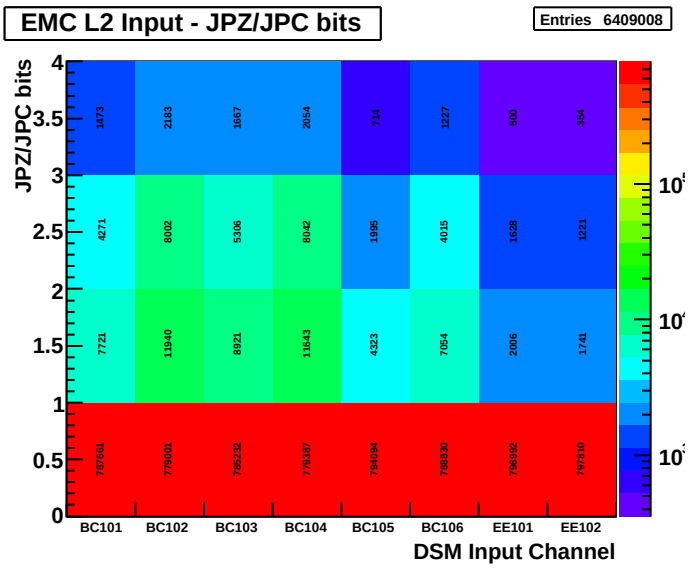

Endcap EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

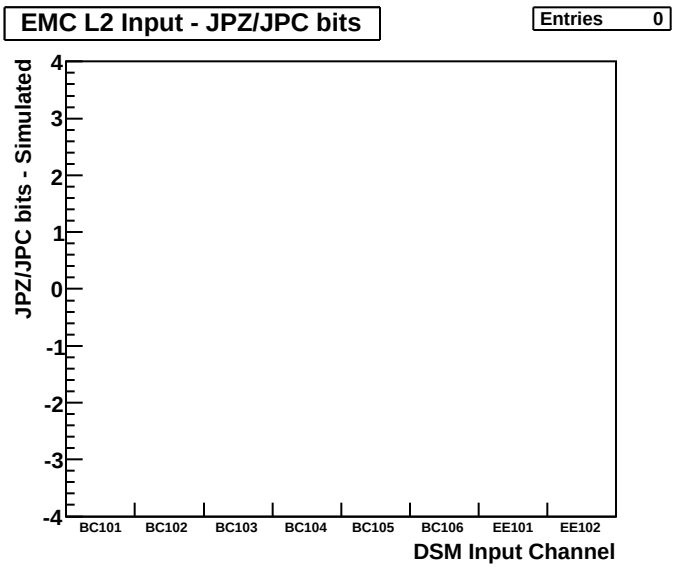

EMC L2 Input - JPX/JPA bits
Entries 6409008
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2721 2087 1800 1121 2372 1475 410 567
9390 6980 5911 3220 8869 4646 1448 1854
13024 10450 8031 5505 11015 8703 1869 2003
775991 781609 785384 791280 778870 785302 797399 798702

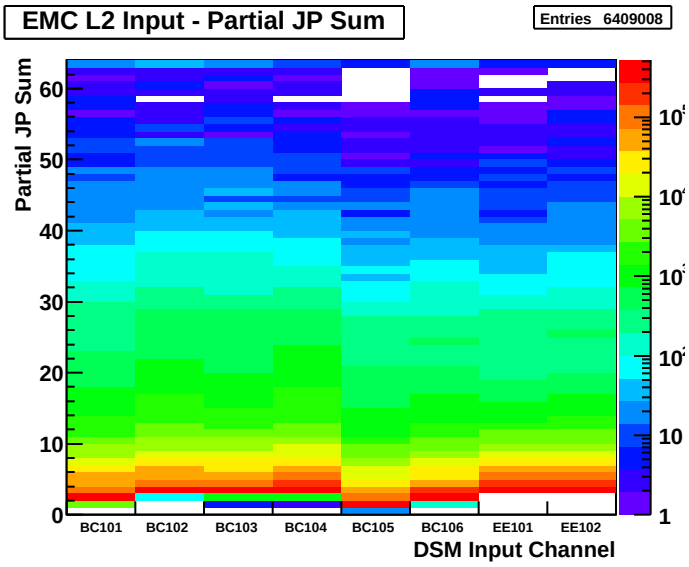

EMC L2 Input - JPX/JPA bits
Entries 2183
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1474
709

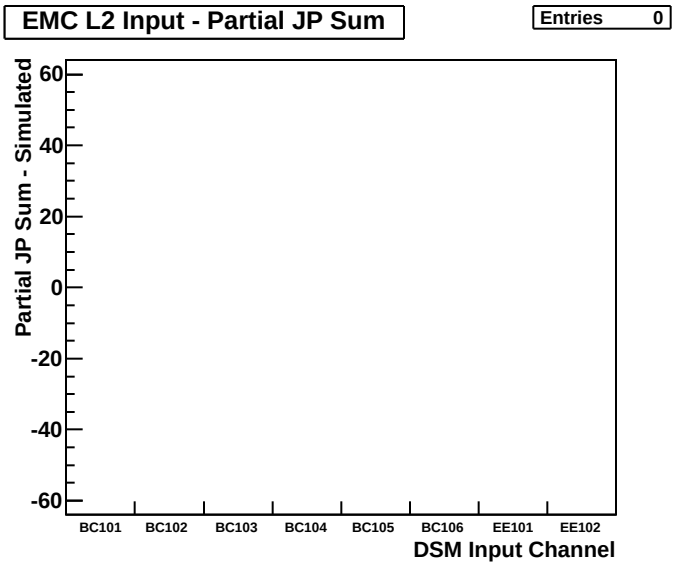

EMC L2 Input - JPY/JPB bits
Entries 6409008
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1998 1834 1273 1076 1042 1967 388 445
6879 6299 3805 3257 3244 7388 1363 1541
12661 11720 7563 6675 8010 11293 1624 1879
778588 781273 788485 790118 788830 780478 797750 797261

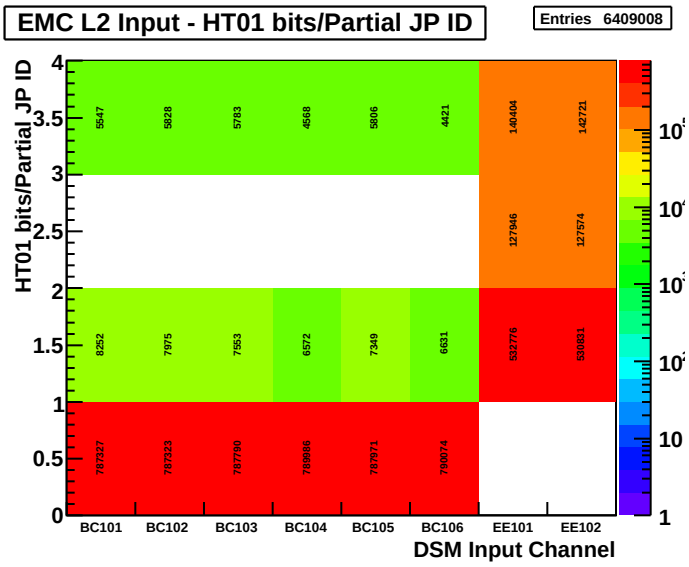

EMC L2 Input - JPY/JPB bits
Entries 2155
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1180
975

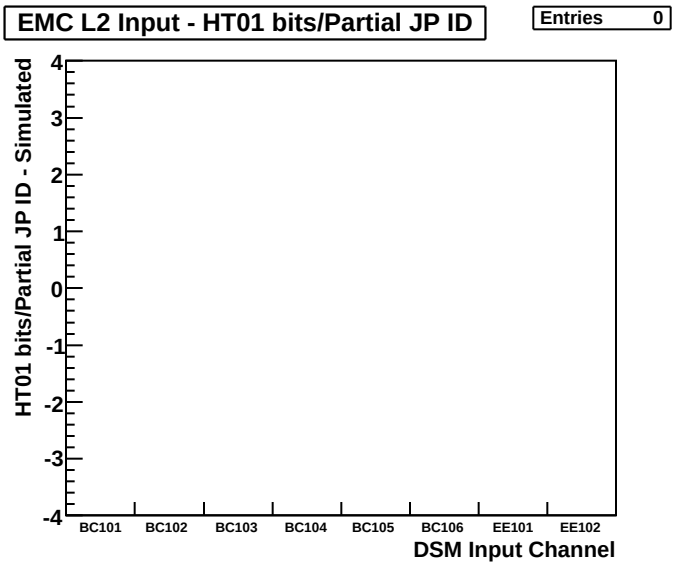

EMC L2 Input - JPZ/JPC bits
Entries 6409008
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1473 2183 1667 2054 714 1227 500 354
4271 8002 5306 8042 1995 4015 1628 1221
7721 11940 8921 11643 4323 7054 2006 1741
787661 779001 785232 779387 794094 788830 796992 797810

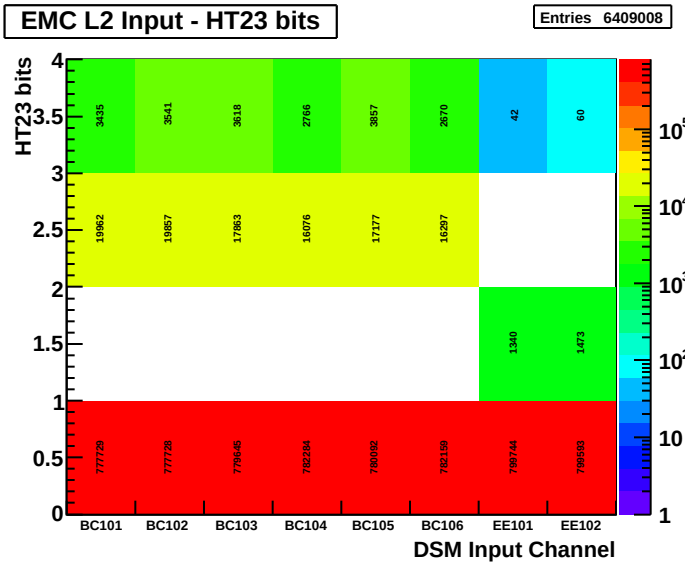

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

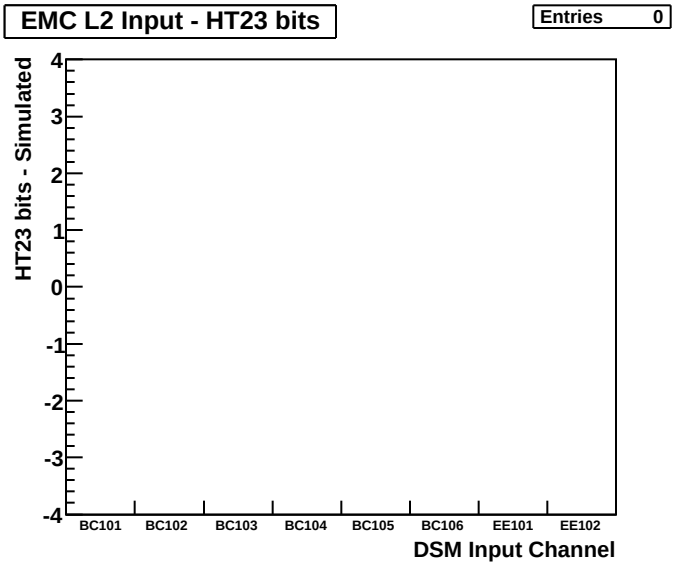

EMC L2 Input - Partial JP Sum
Entries 6409008
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

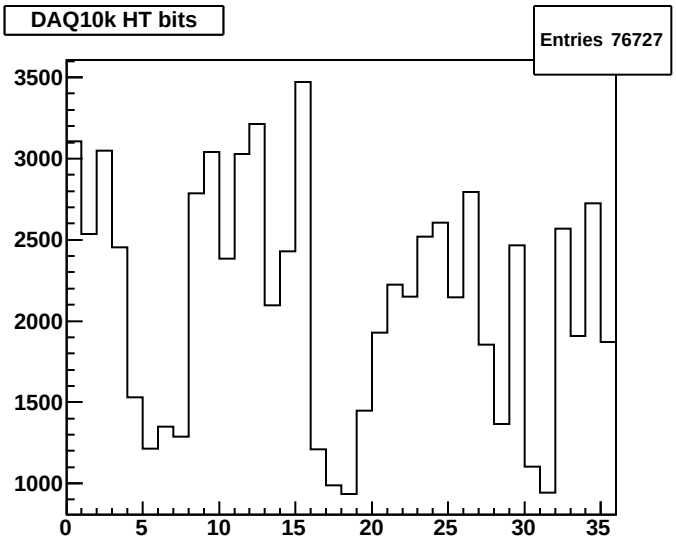

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

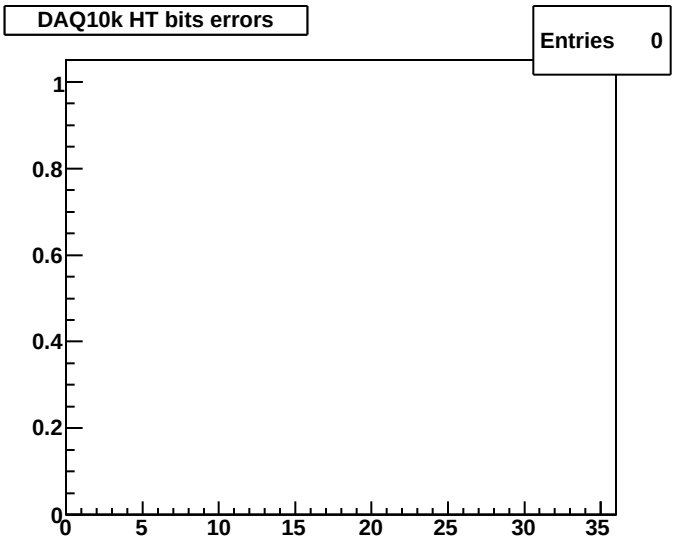

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6409008
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

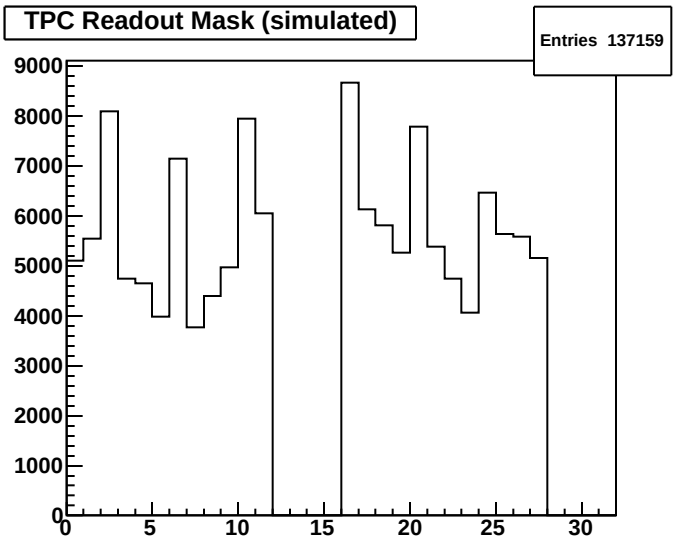

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

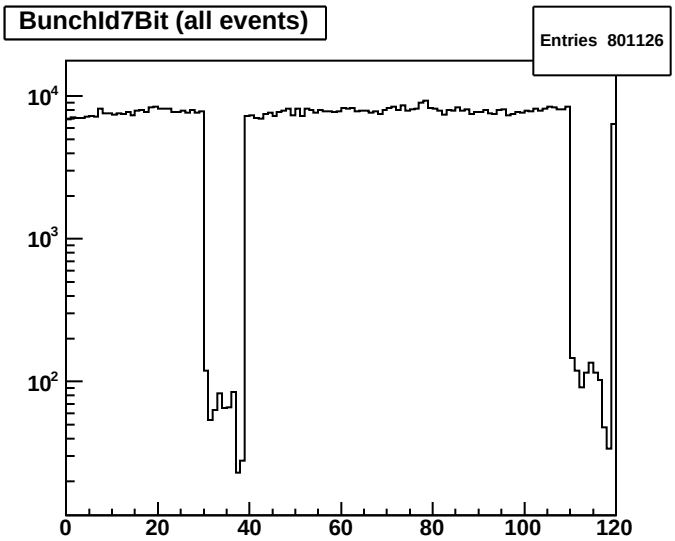

EMC L2 Input - HT23 bits
Entries 6409008
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

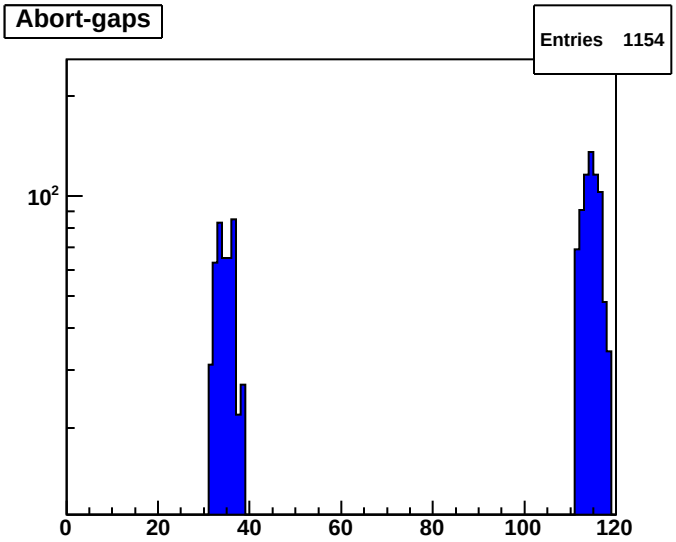

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

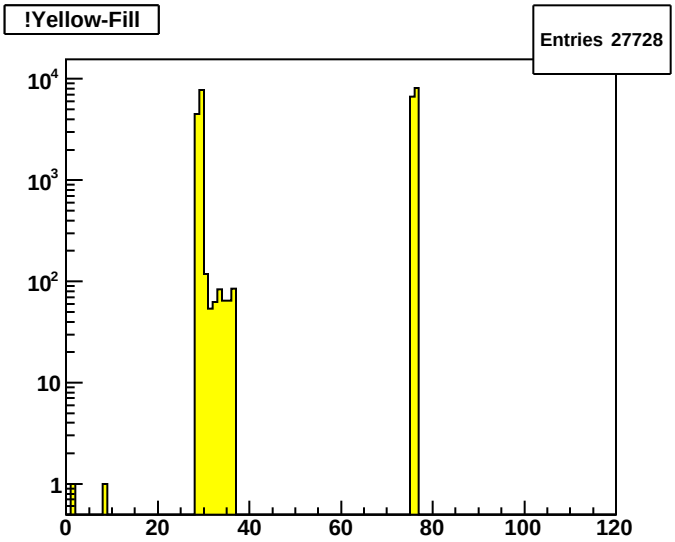

DAQ10k HT bits
Entries 76727

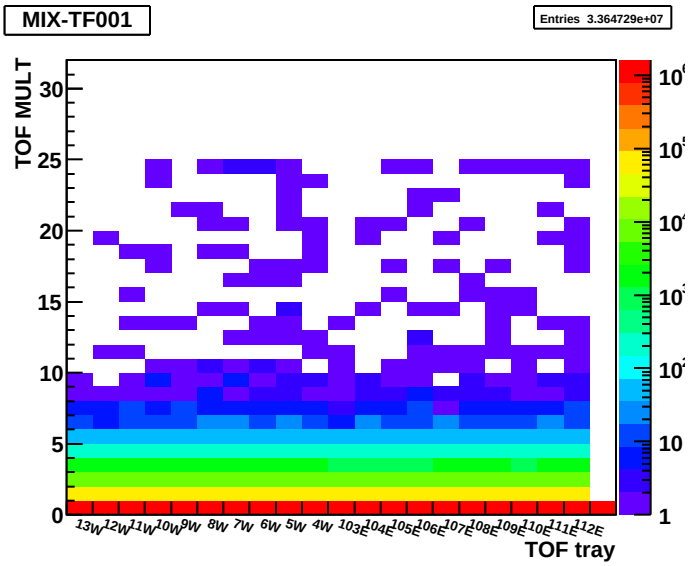

DAQ10k HT bits errors
Entries 0

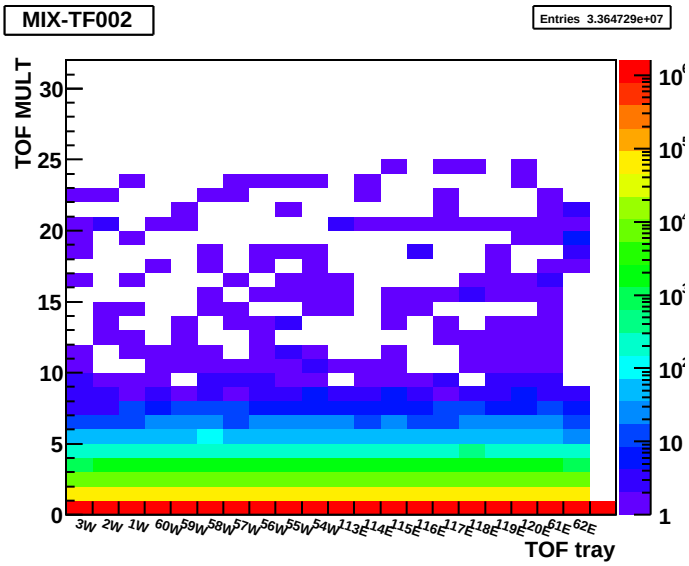

TPC Readout Mask (simulated)
Entries 137159

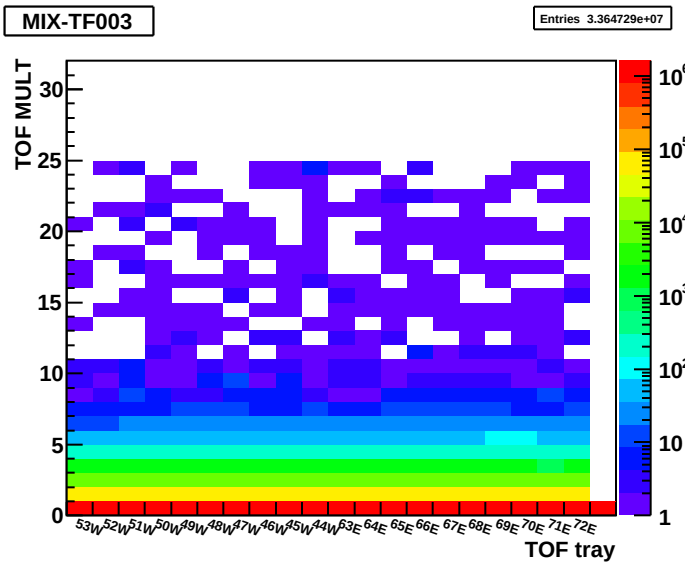

BunchId7Bit (all events)
Entries 801126

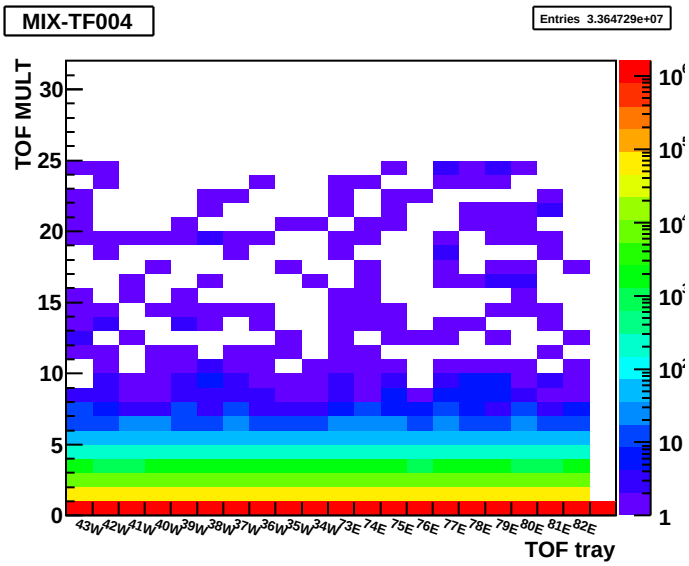

Abort-gaps
Entries 1154

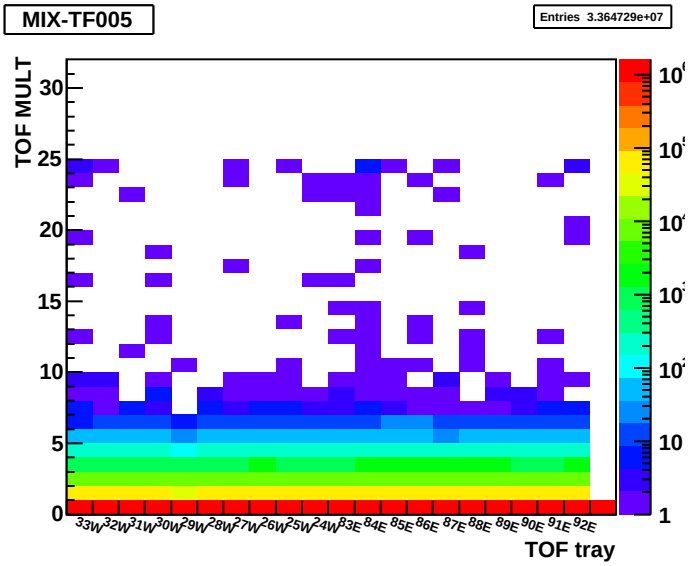

!Yellow-Fill
Entries 27728

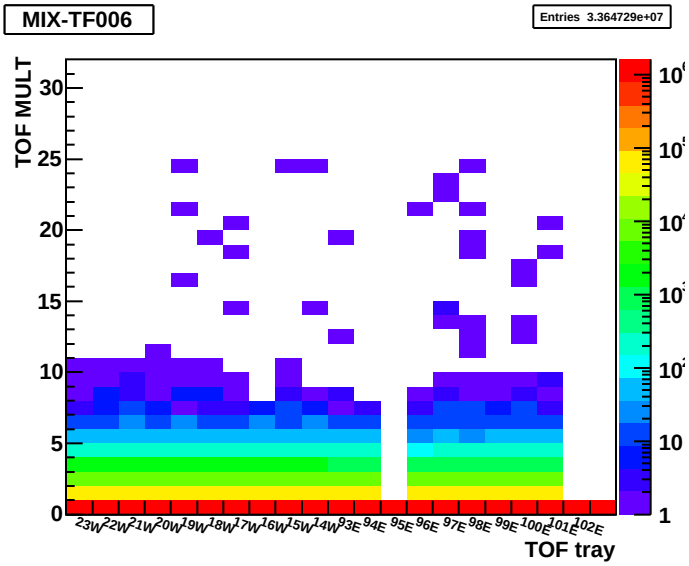

MIX-TF001
Entries 3.364729e+07
TOF MULT
TOF tray

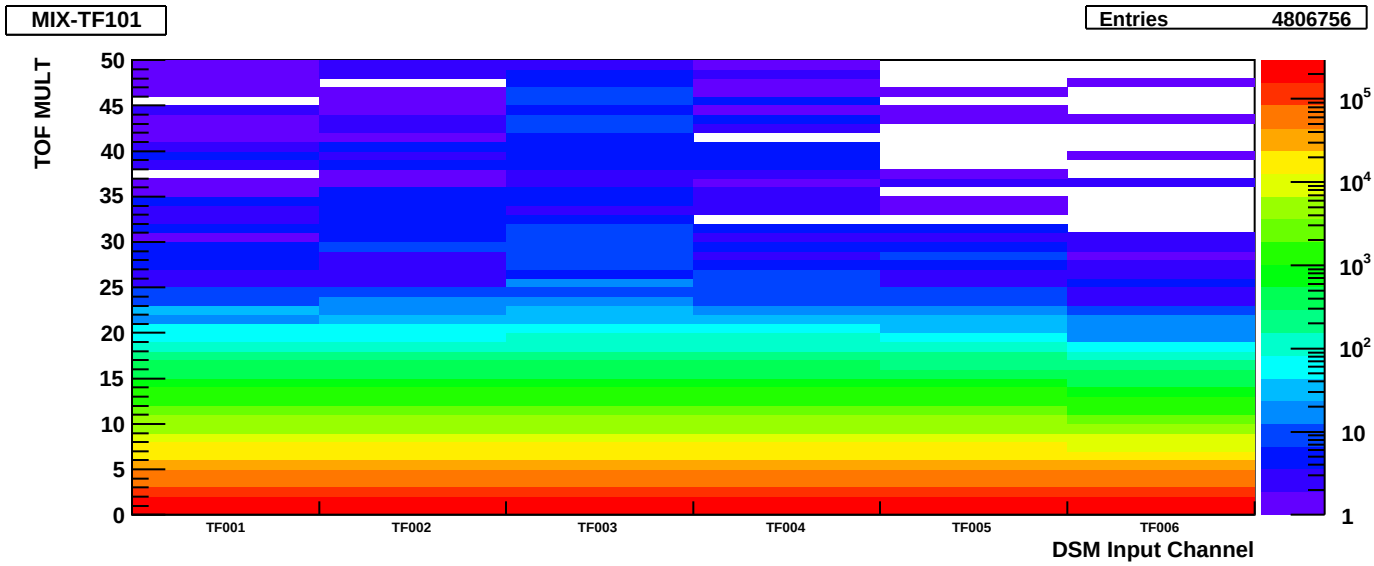

MIX-TF002
Entries 3.364729e+07
TOF MULT
TOF tray

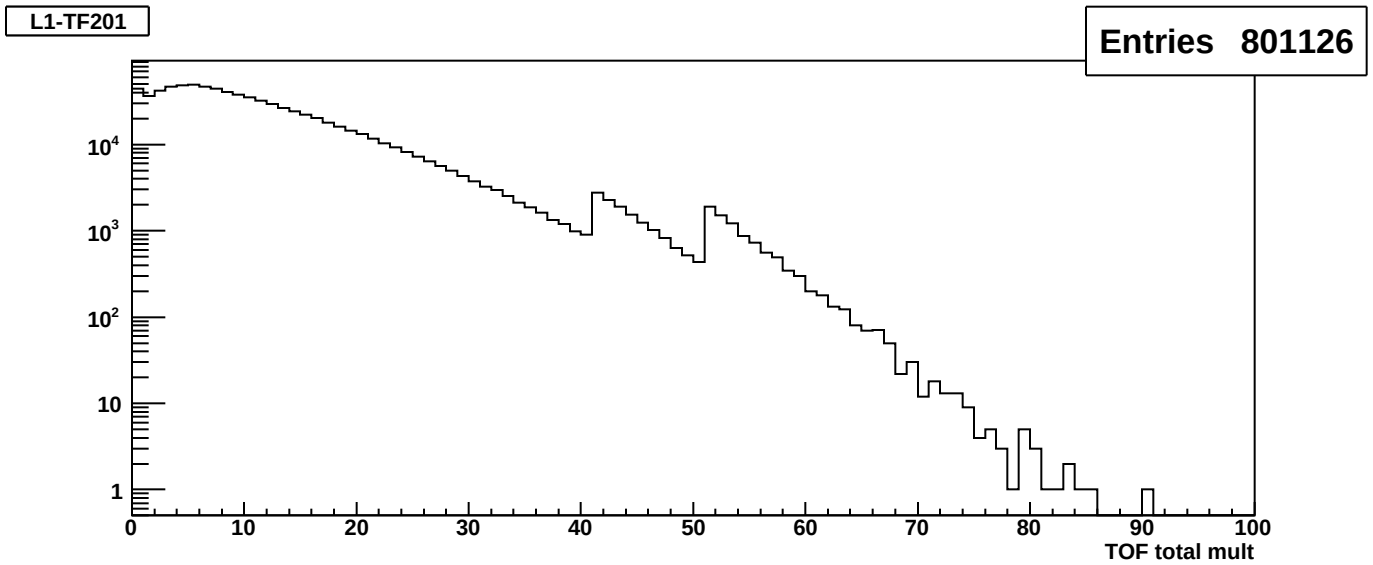

MIX-TF003
Entries 3.364729e+07
TOF MULT
TOF tray

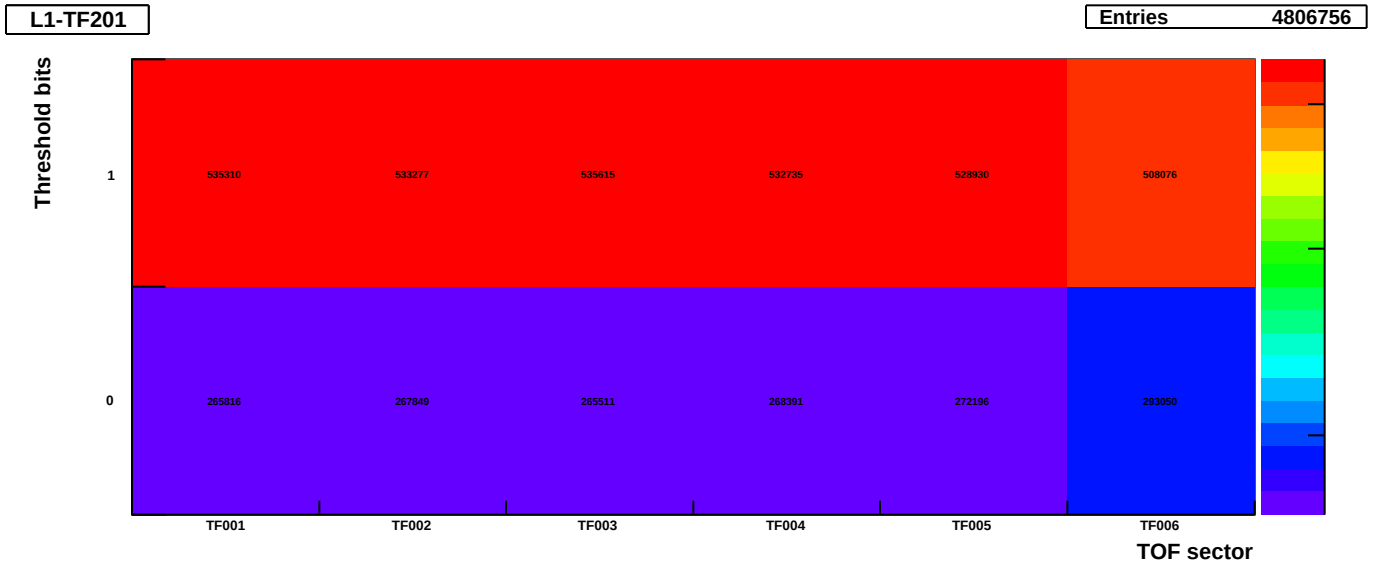

MIX-TF004
Entries 3.364729e+07
TOF MULT
TOF tray

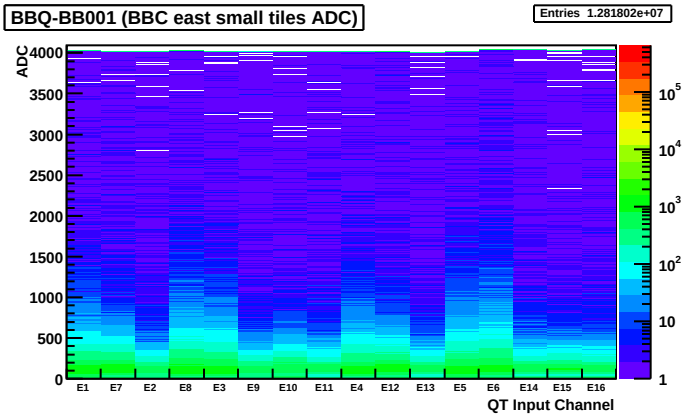

MIX-TF005
Entries 3.364729e+07
TOF MULT
TOF tray

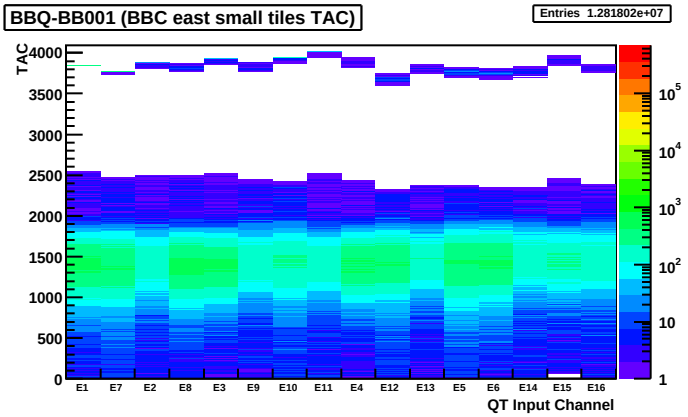

MIX-TF006
Entries 3.364729e+07
TOF MULT
TOF tray

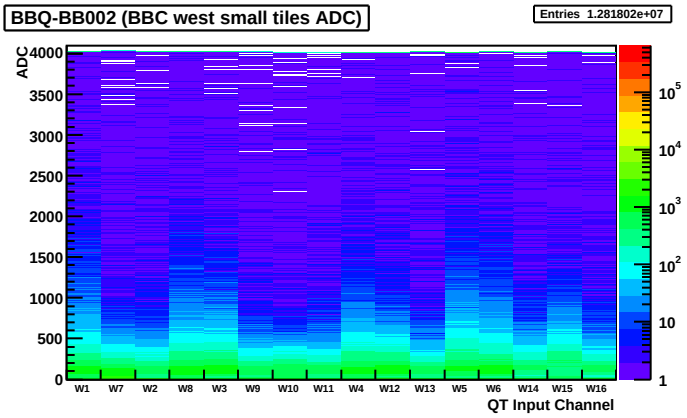

MIX-TF101
Entries 4806756
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

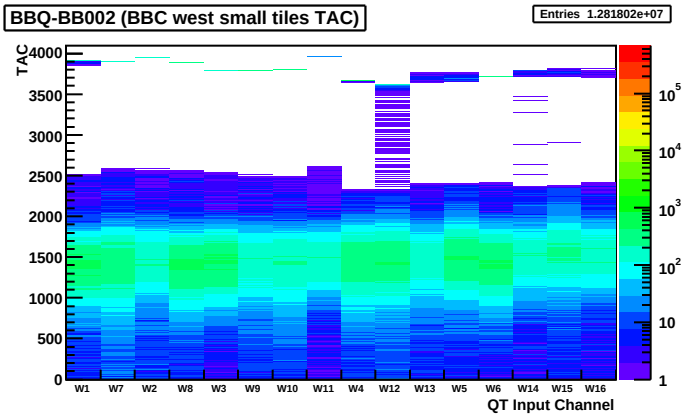

L1-TF201
Entries 801126
TOF total mult

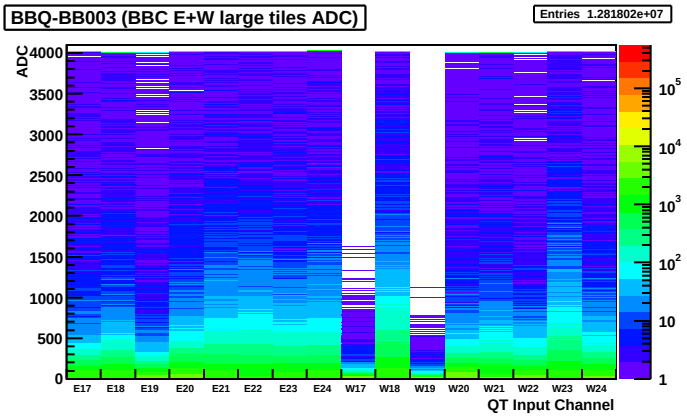

L1-TF201
Entries 4806756
Threshold bits
535310
533277
535615
532735
528930
508076
265816
267849
265511
268391
272196
293050
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

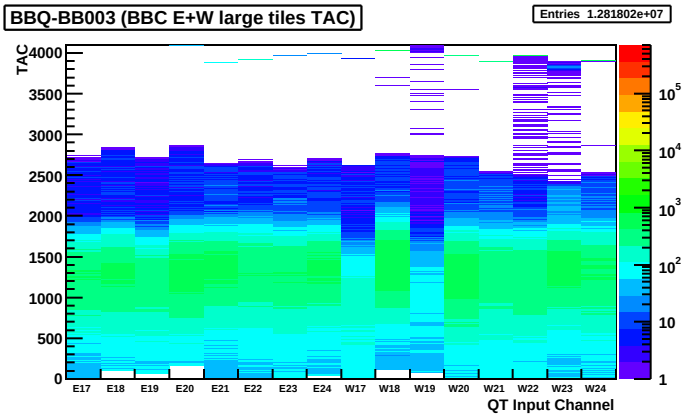

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.281802e+07
ADC
QT Input Channel

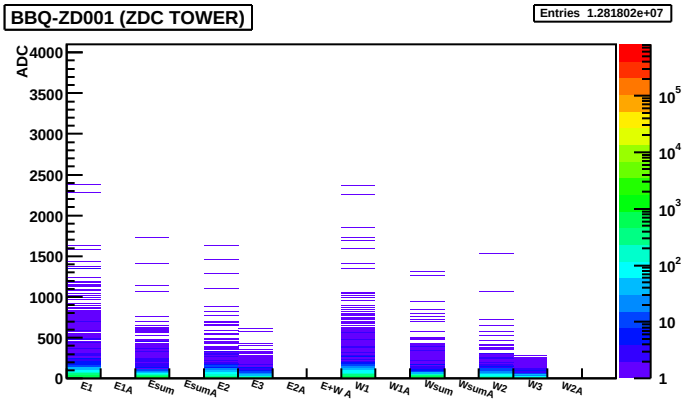

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.281802e+07
TAC
QT Input Channel

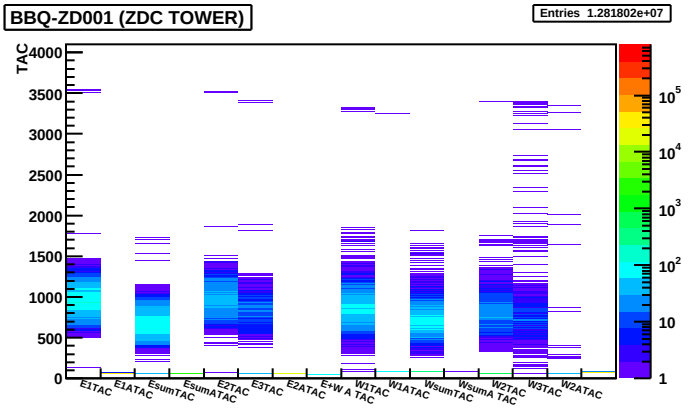

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.281802e+07
ADC
QT Input Channel

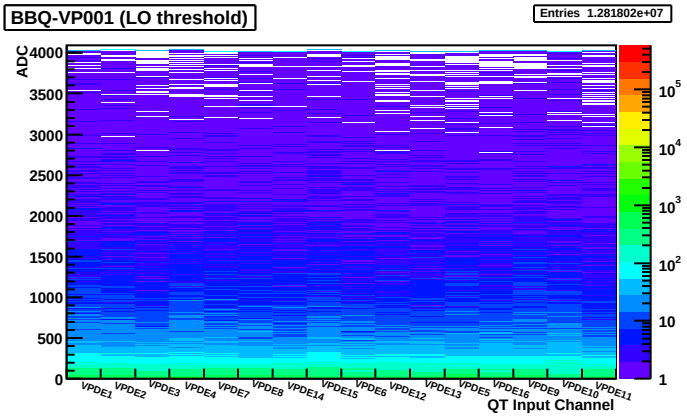

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.281802e+07
TAC
QT Input Channel

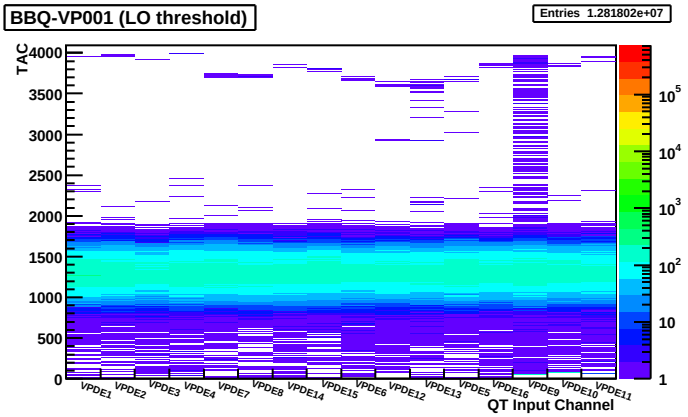

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.281802e+07
ADC
QT Input Channel

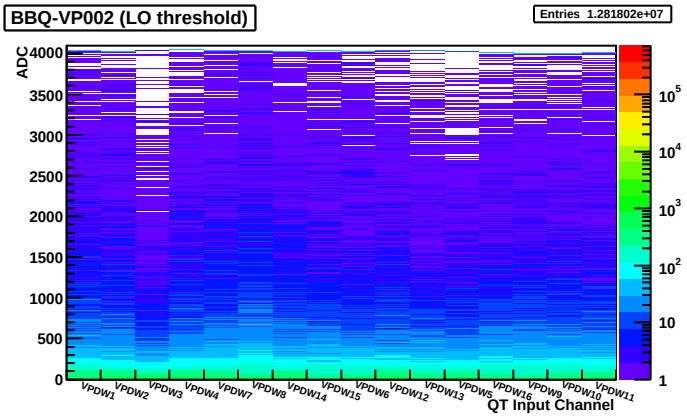

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.281802e+07
TAC
QT Input Channel

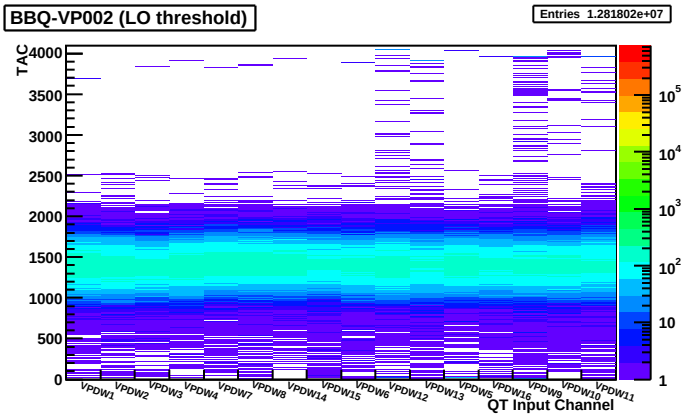

BBQ-ZD001 (ZDC TOWER)
Entries 1.281802e+07
ADC

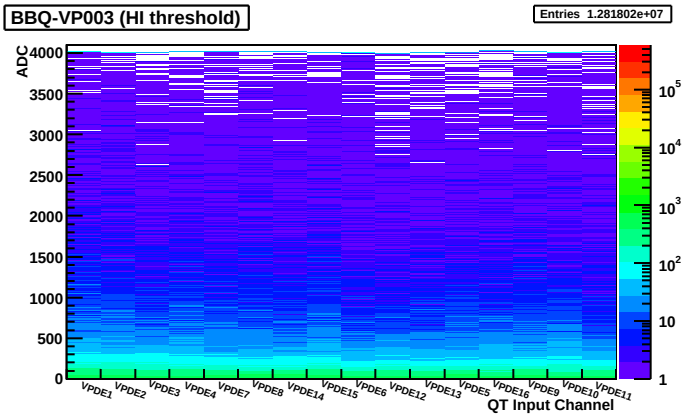

BBQ-ZD001 (ZDC TOWER)
Entries 1.281802e+07
TAC

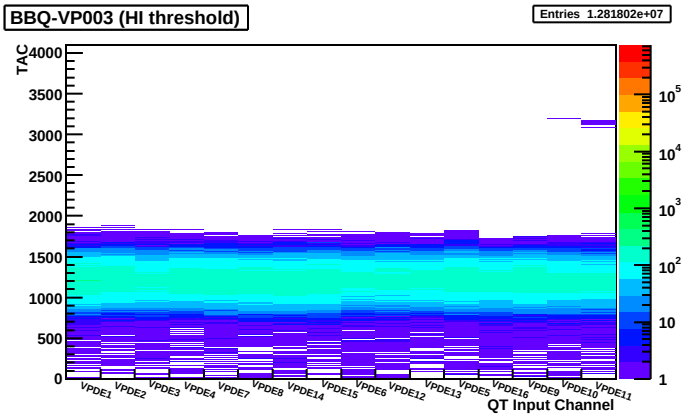

BBQ-VP001 (LO threshold)
Entries 1.281802e+07
ADC
QT Input Channel

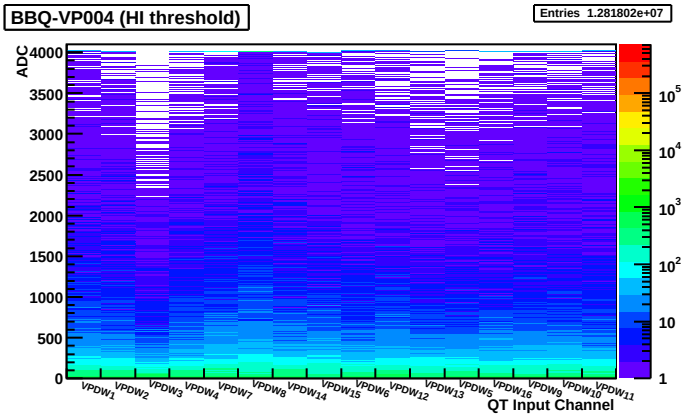

BBQ-VP001 (LO threshold)
Entries 1.281802e+07
TAC
QT Input Channel

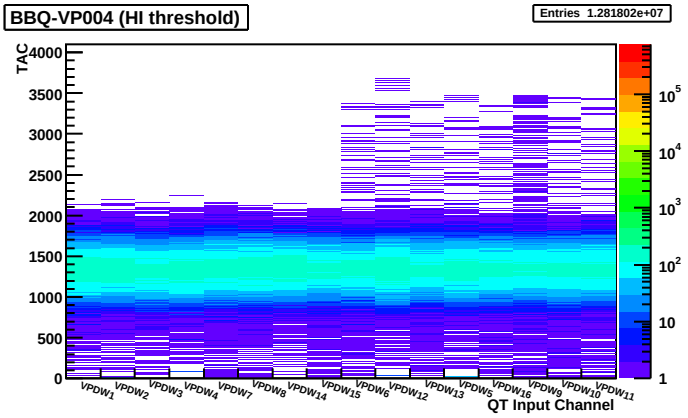

BBQ-VP002 (LO threshold)
Entries 1.281802e+07
ADC
QT Input Channel

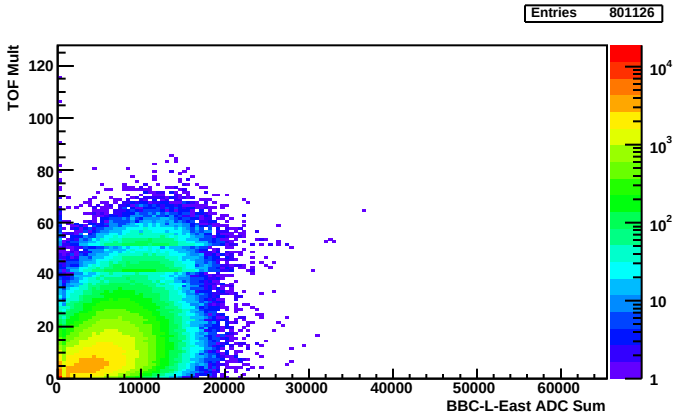

BBQ-VP002 (LO threshold)
Entries 1.281802e+07
TAC
QT Input Channel

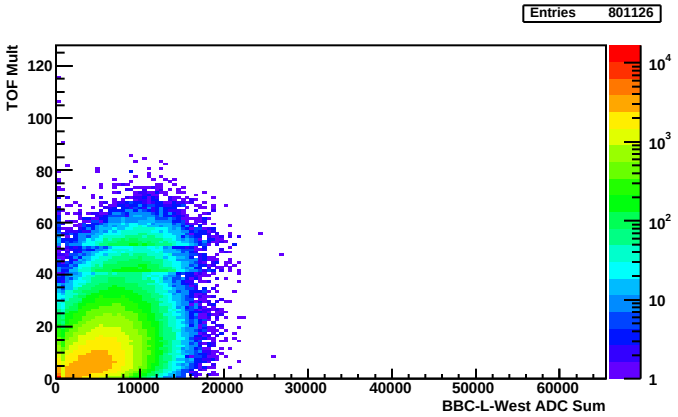

BBQ-VP003 (HI threshold)
Entries 1.281802e+07
ADC
QT Input Channel

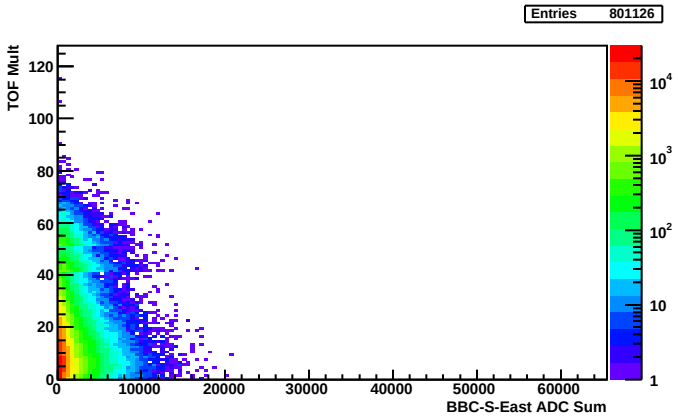

BBQ-VP003 (HI threshold)
Entries 1.281802e+07
TAC
QT Input Channel

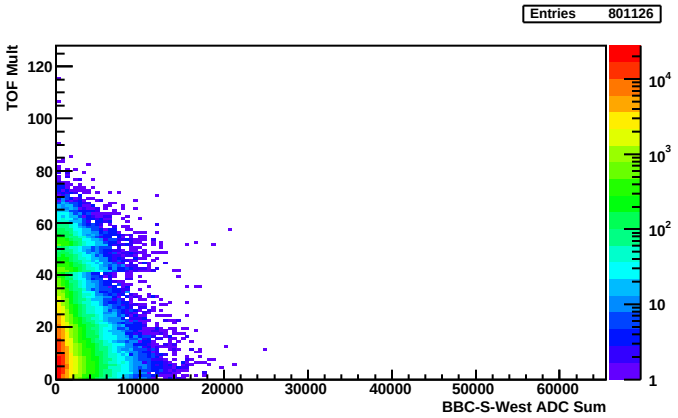

BBQ-VP004 (HI threshold)
Entries 1.281802e+07
ADC
QT Input Channel

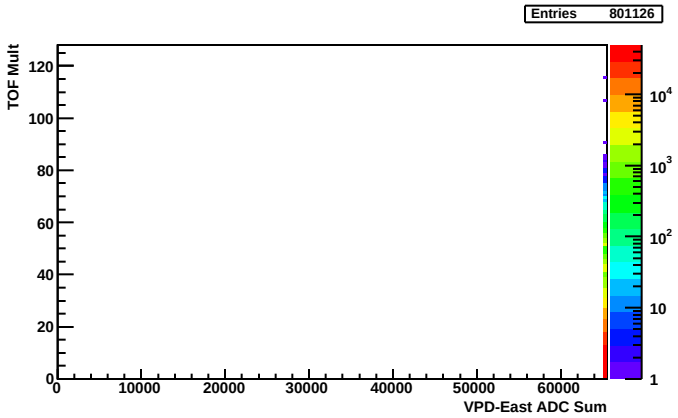

BBQ-VP004 (HI threshold)
Entries 1.281802e+07
TAC
QT Input Channel

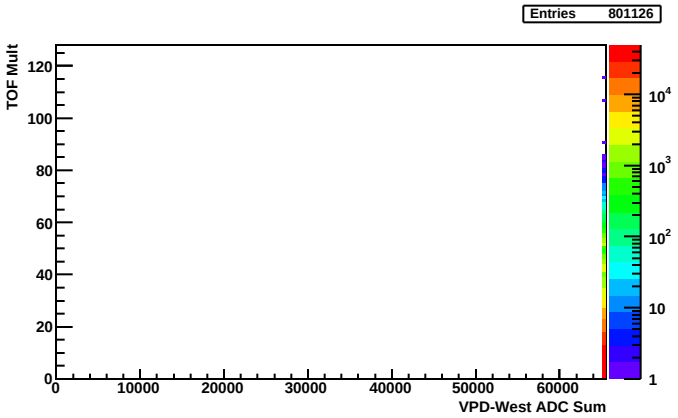

Entries 801126
TOF Mult
BBC-L-East ADC Sum

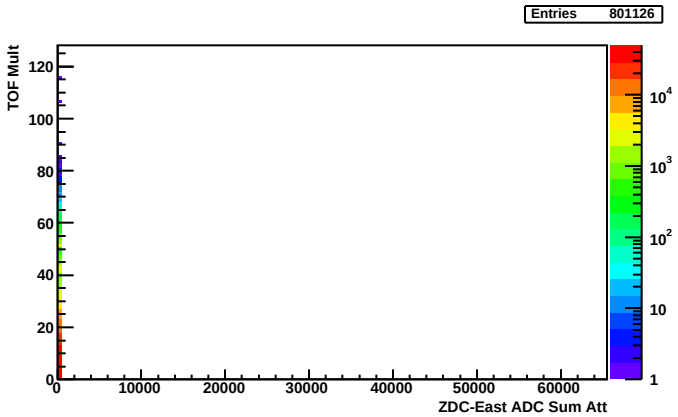

Entries 801126
TOF Mult
BBC-L-West ADC Sum

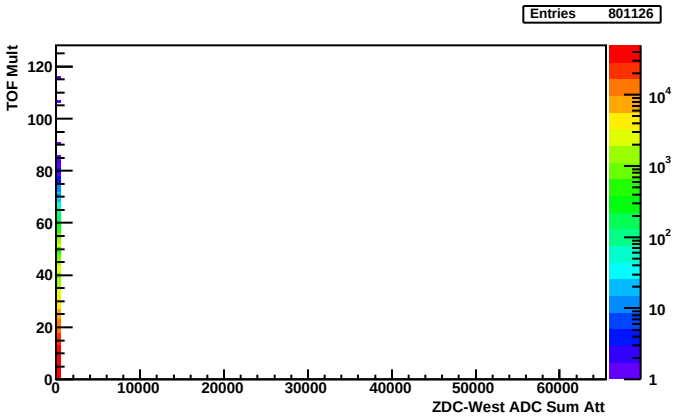

Entries 801126
TOF Mult
BBC-S-East ADC Sum

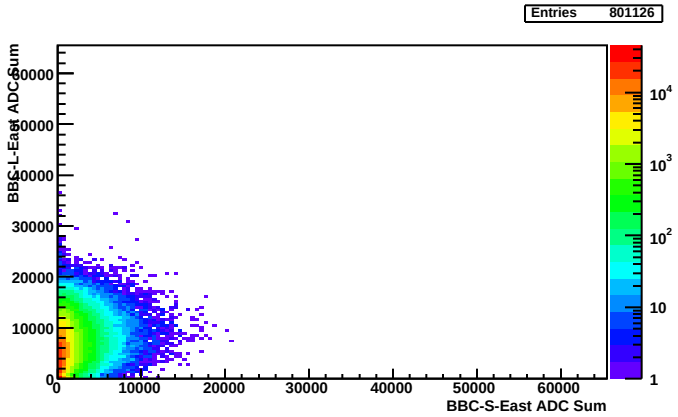

Entries 801126
TOF Mult
BBC-S-West ADC Sum

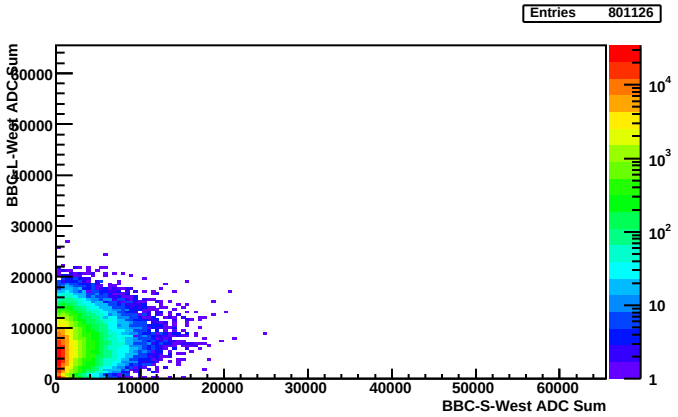

Entries 801126
TOF Mult
VPD-East ADC Sum

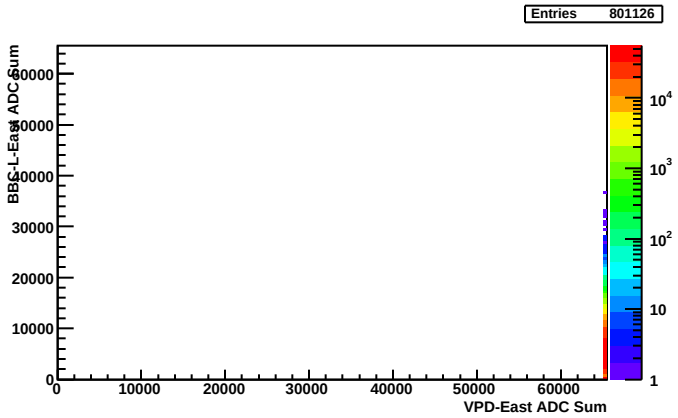

Entries 801126
TOF Mult
VPD-West ADC Sum

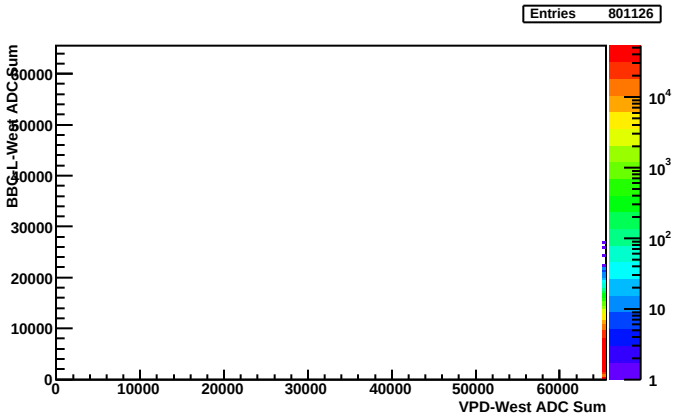

Entries 801126
TOF Mult
ZDC-East ADC Sum Att

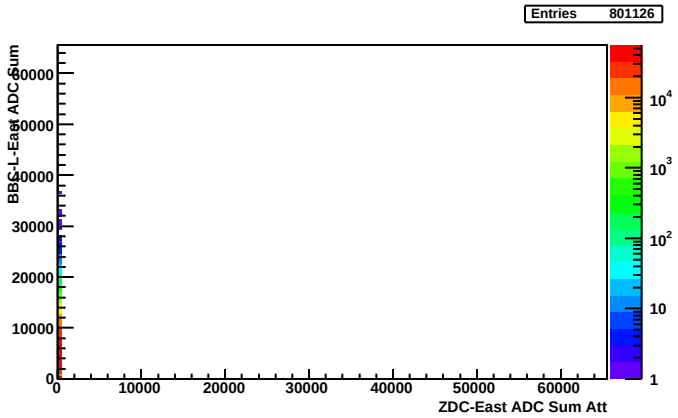

Entries 801126
TOF Mult
ZDC-West ADC Sum Att

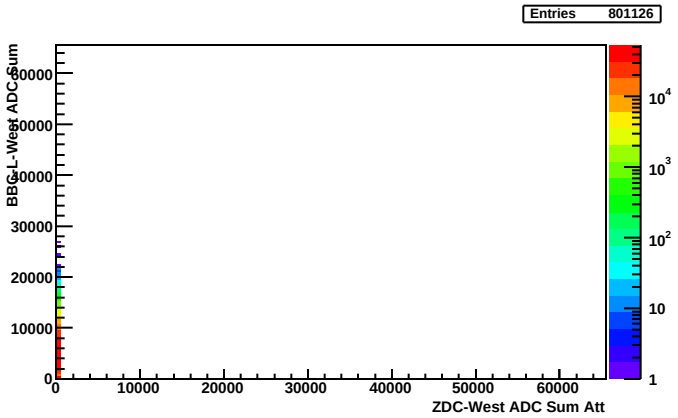

Entries 801126
BBC-L-East ADC Sum
BBC-S-East ADC Sum

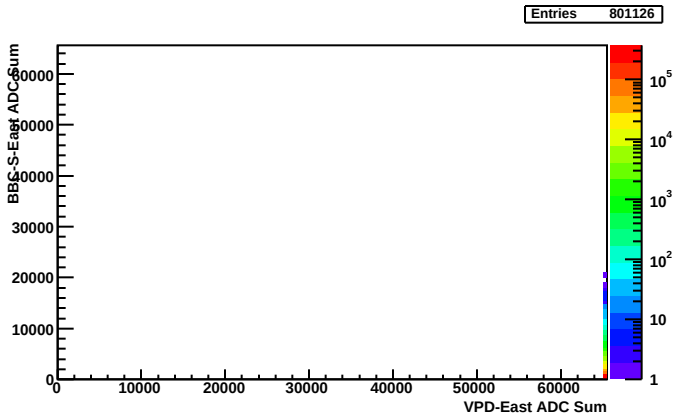

Entries 801126
BBC-L-West ADC Sum
BBC-S-West ADC Sum

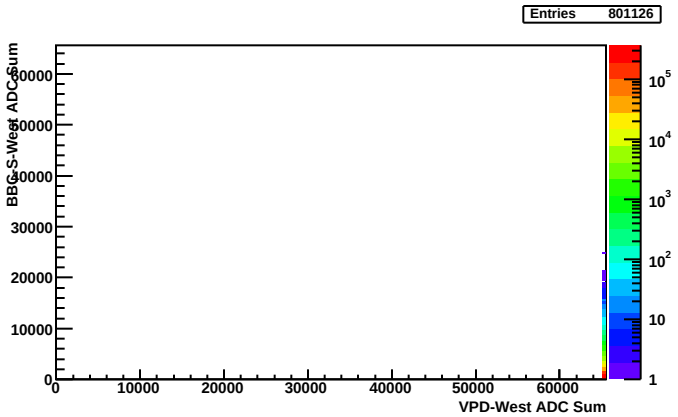

Entries 801126
BBC-L-East ADC Sum
VPD-East ADC Sum

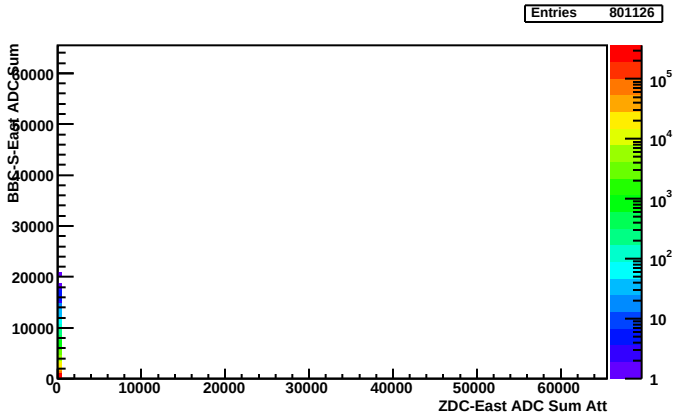

Entries 801126
BBC-L-West ADC Sum
VPD-West ADC Sum

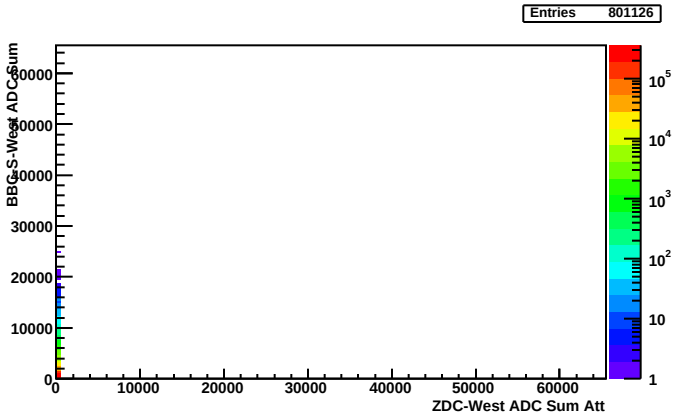

Entries 801126
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 801126
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 801126
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 801126
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 801126
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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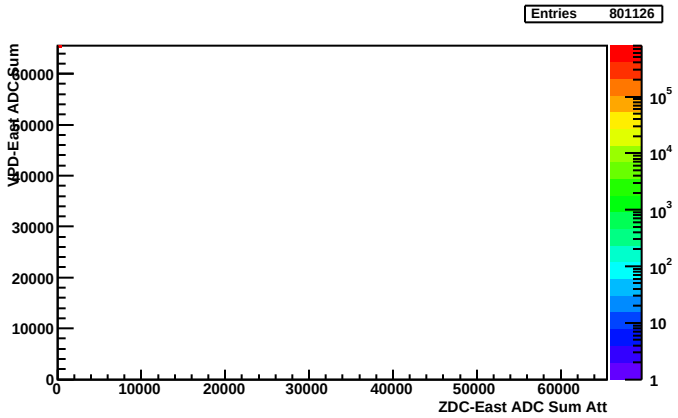
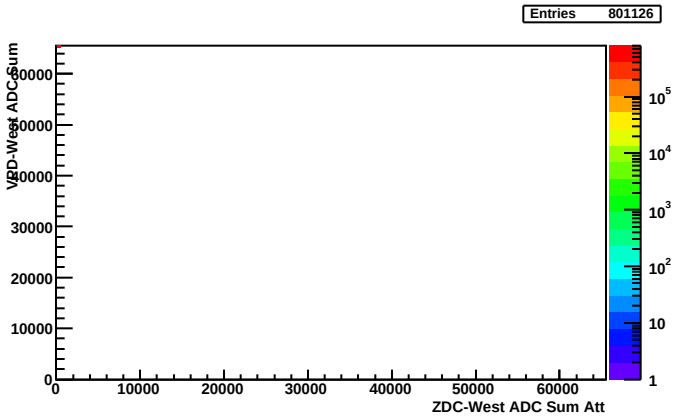
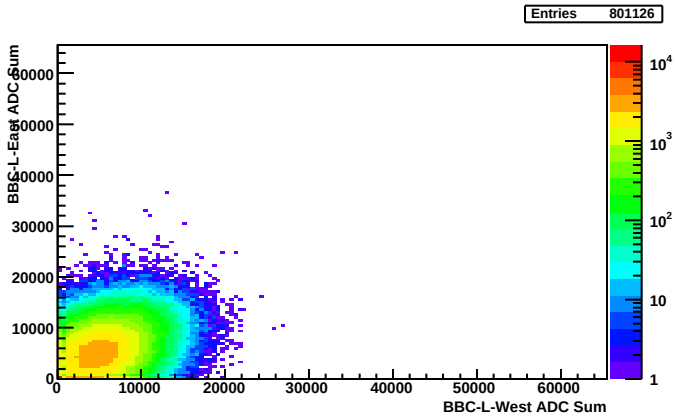
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 801126
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 801126
VPD-West ADC Sum
ZDC-West ADC Sum Att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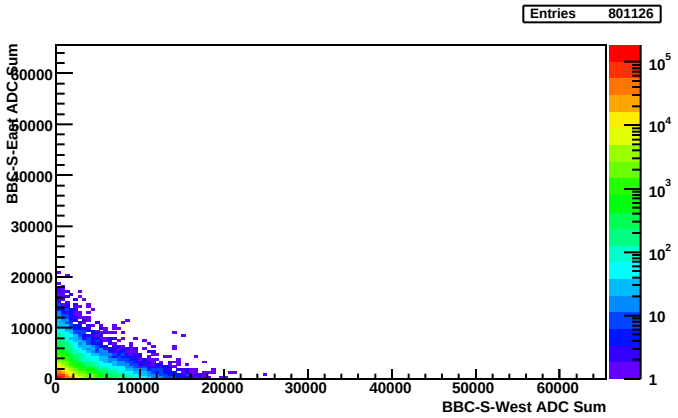
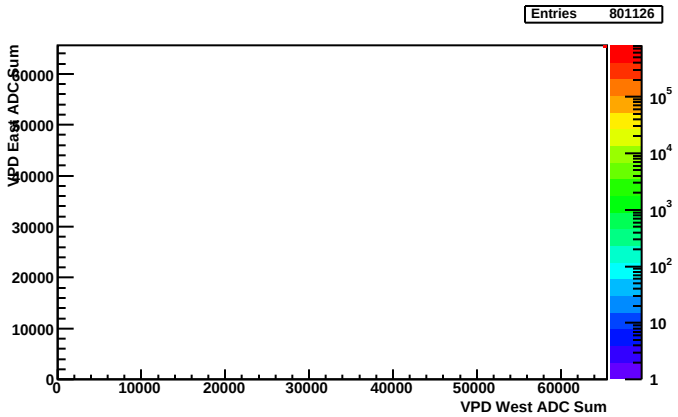
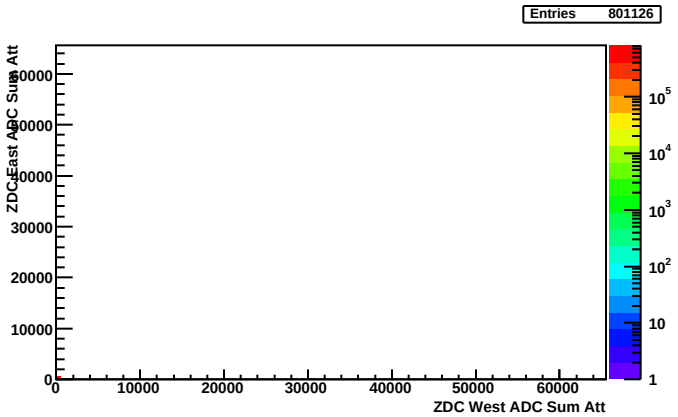
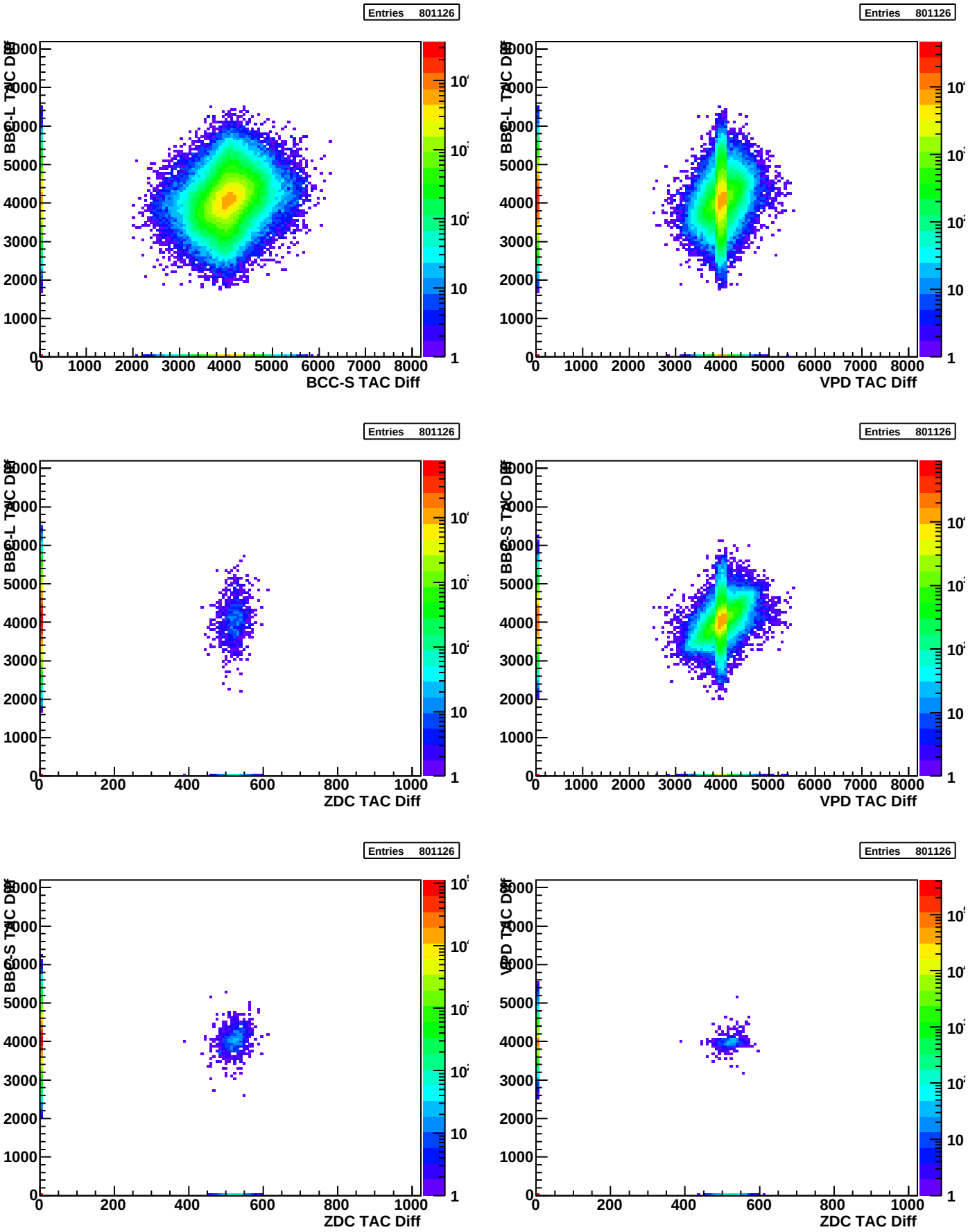
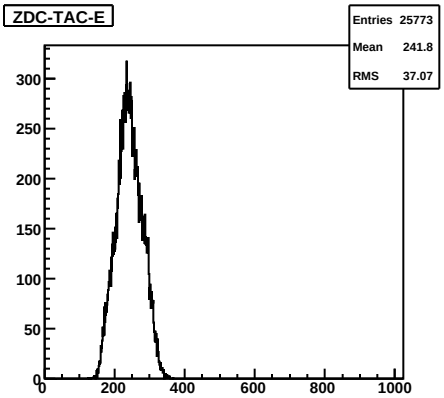
BBC-L-East ADC Sum
BBC-L-West ADC Sum

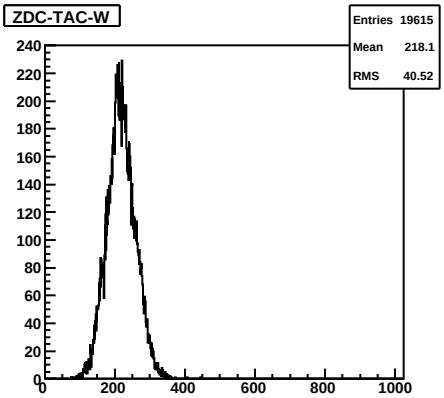

Entries 801126
BBC-S-East ADC Sum
BBC-S-West ADC Sum

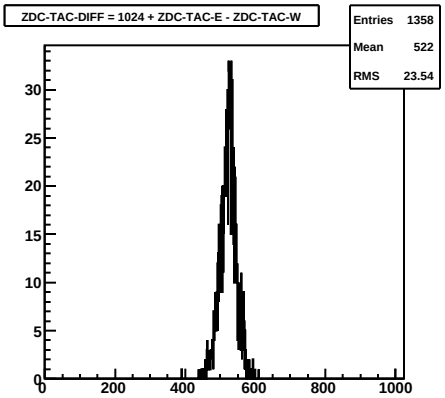

Entries 801126
VPD East ADC Sum
VPD West ADC Sum

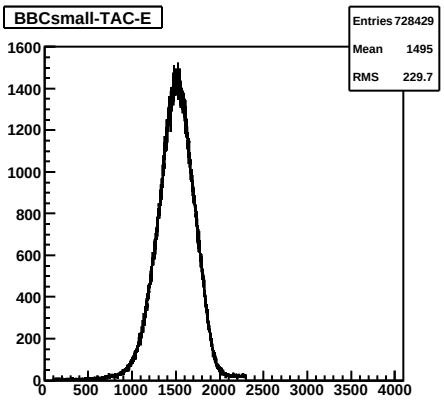

Entries 801126
ZDC East ADC Sum Att
ZDC West ADC Sum Att

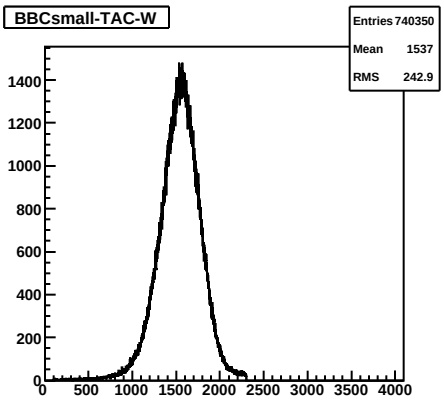

Entries 801126
BBC-L TAC Diff
BCC-S TAC Diff
Entries 801126
BBC-L TAC Diff
VPD TAC Diff
Entries 801126
BBC-L TAC Diff
ZDC TAC Diff
Entries 801126
BBC-S TAC Diff
VPD TAC Diff
Entries 801126
BBC-S TAC Diff
ZDC TAC Diff
Entries 801126
VPD TAC Diff
ZDC TAC Diff

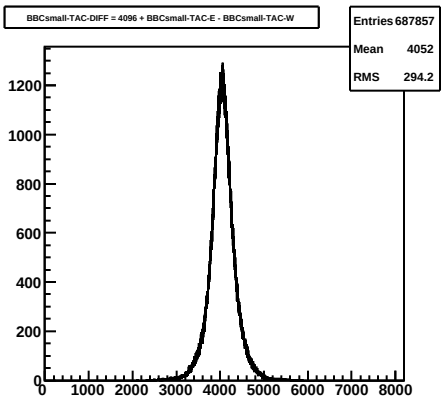

ZDC-TAC-E
Entries 25773
Mean 241.8
RMS 37.07

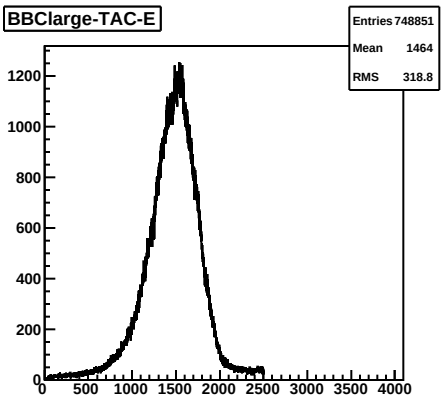

ZDC-TAC-W
Entries 19615
Mean 218.1
RMS 40.52

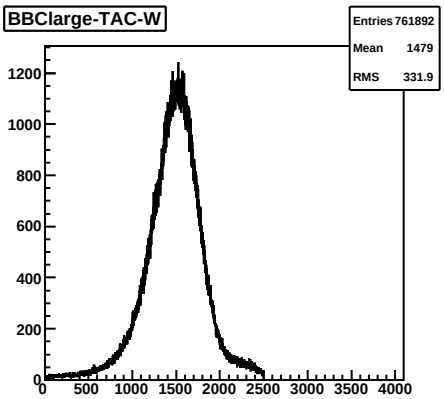

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1358
Mean 522
RMS 23.54

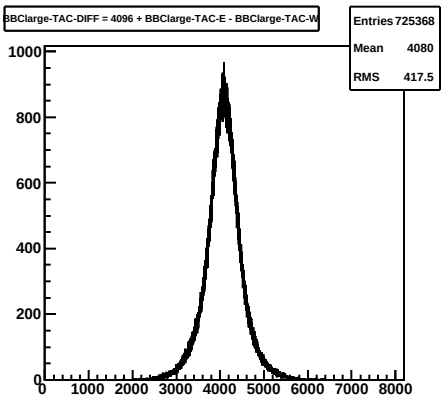

BBCsmall-TAC-E
Entries 728429
Mean 1495
RMS 229.7

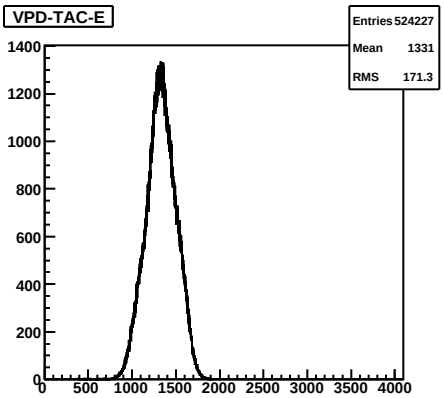

BBCsmall-TAC-W
Entries 740350
Mean 1537
RMS 242.9

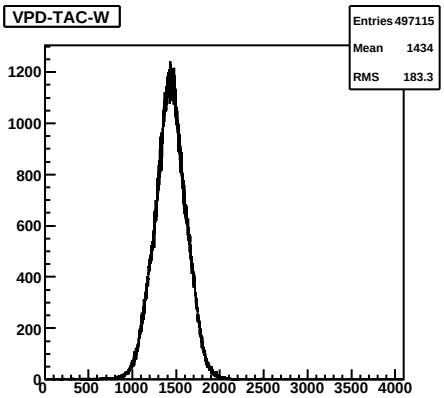

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 687857
Mean 4052
RMS 294.2

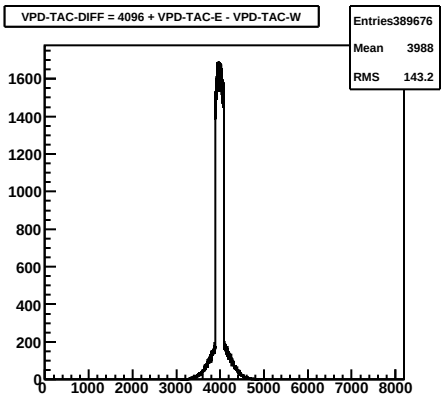

BBClarge-TAC-E
Entries 748851
Mean 1464
RMS 318.8

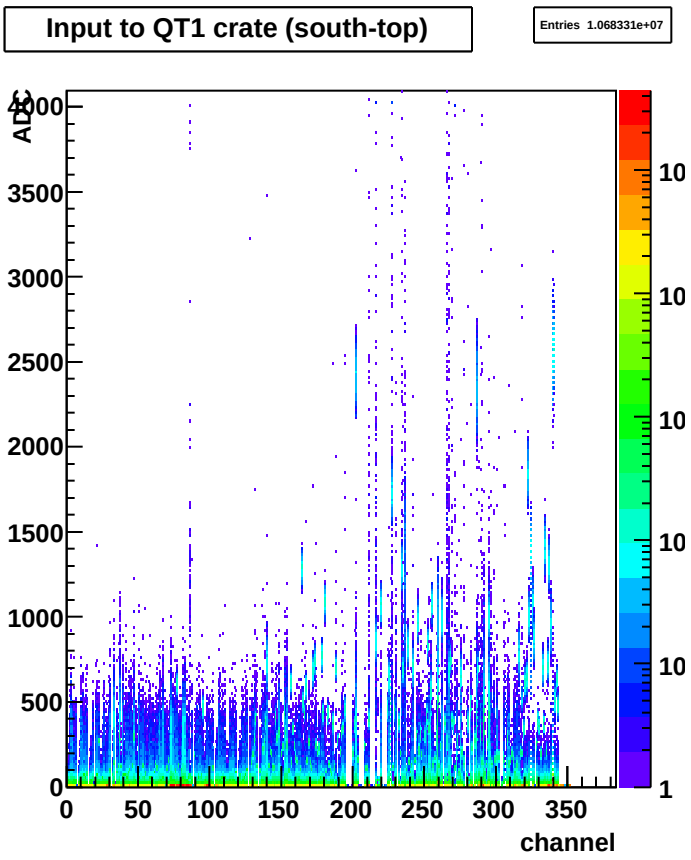

BBClarge-TAC-W
Entries 761892
Mean 1479
RMS 331.9

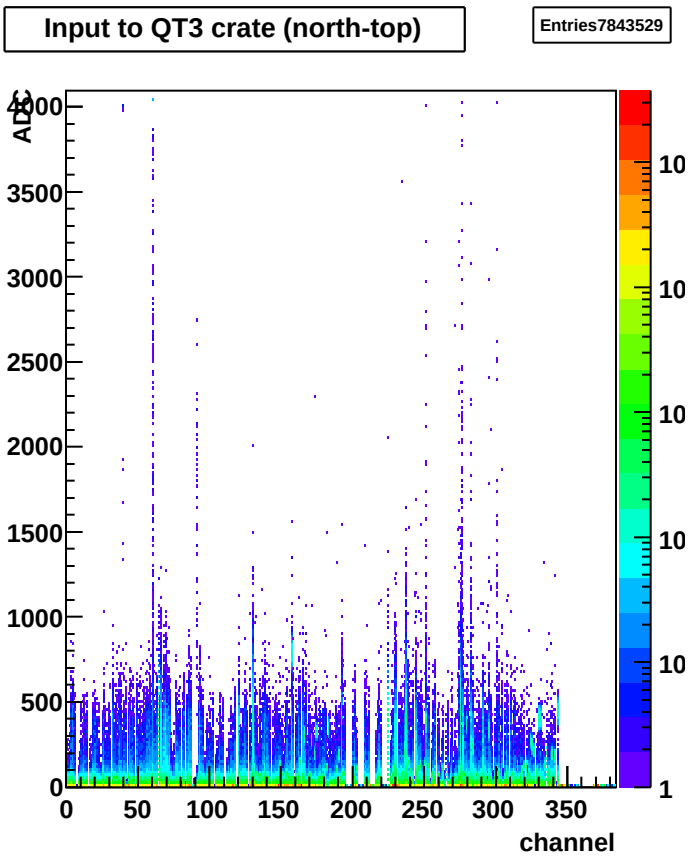

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 725368
Mean 4080
RMS 417.5

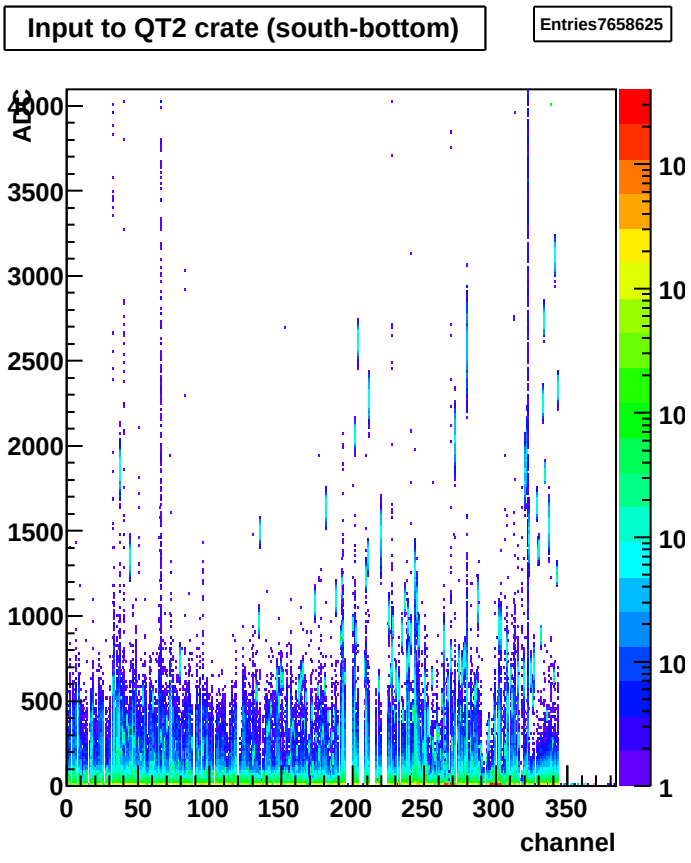

VPD-TAC-E
Entries 524227
Mean 1331
RMS 171.3

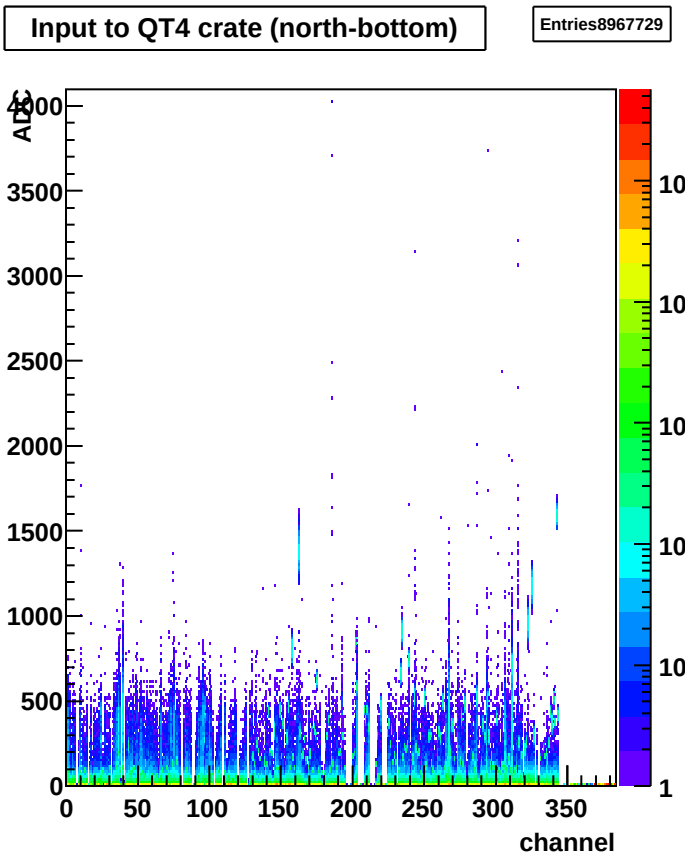

VPD-TAC-W
Entries 497115
Mean 1434
RMS 183.3

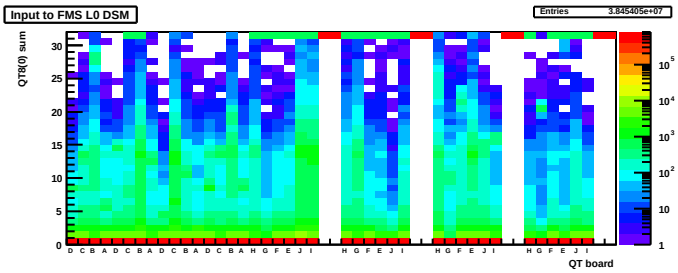

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 389676
Mean 3988
RMS 143.2

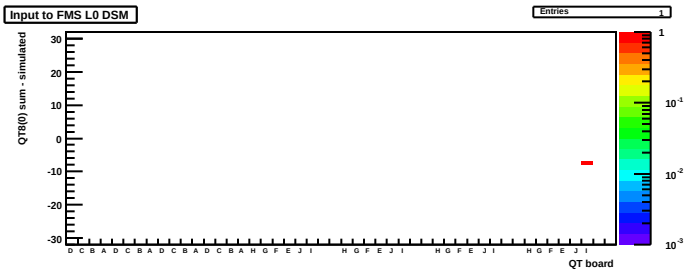

Input to QT1 crate (south-top)
Entries 1.068331e+07
ADC
channel

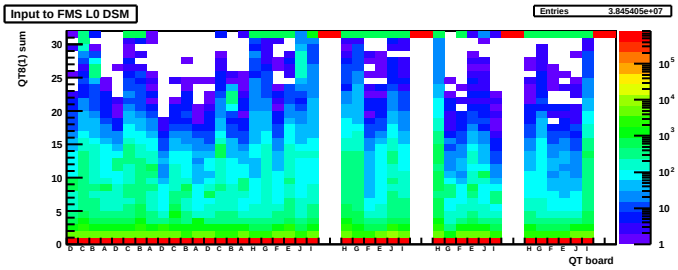

Input to QT3 crate (north-top)
Entries7843529
ADC
channel

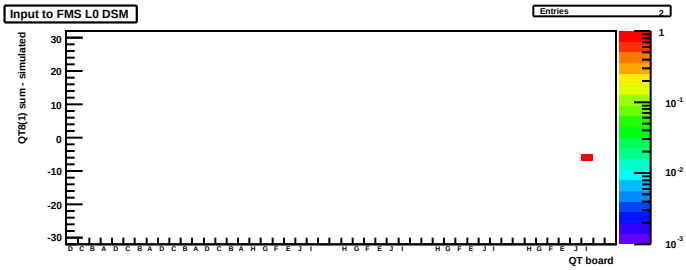

Input to QT2 crate (south-bottom)
Entries7658625
ADC
channel

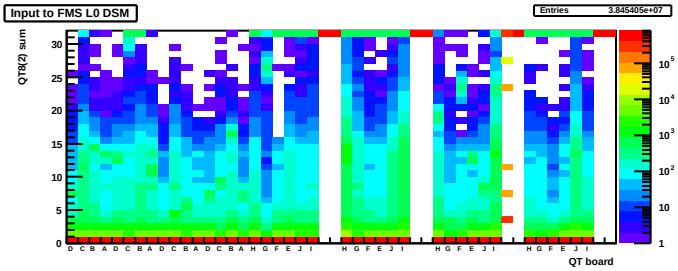

Input to QT4 crate (north-bottom)
Entries8967729
ADC
channel

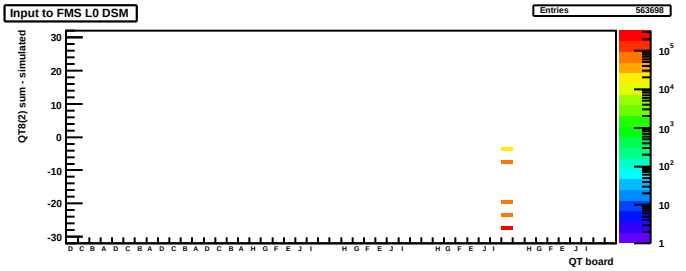

Input to FMS L0 DSM
Entries 3.845405e+07
QT8(0) sum
QT board

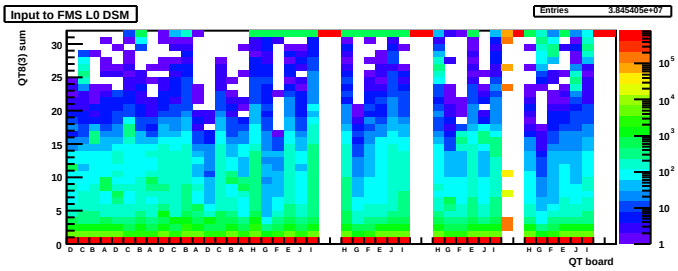

Input to FMS L0 DSM
Entries 1
QT8(0) sum - simulated
QT board

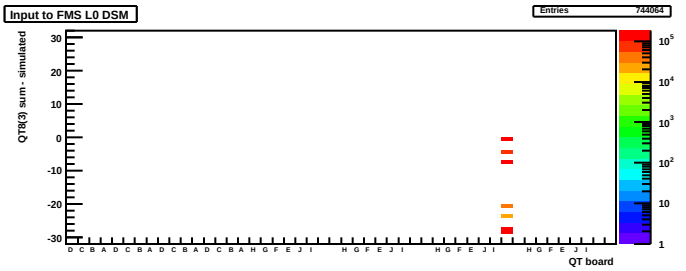

Input to FMS L0 DSM
Entries 3.845405e+07
QT8(1) sum
QT board

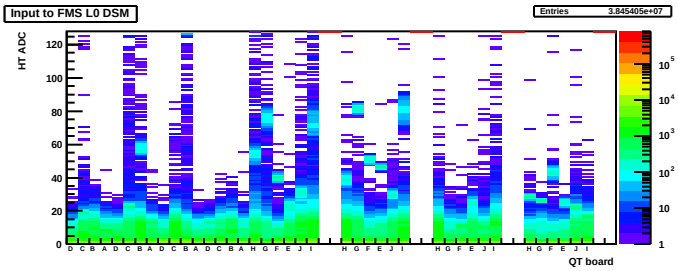

Input to FMS L0 DSM
Entries 2
QT8(1) sum - simulated
QT board

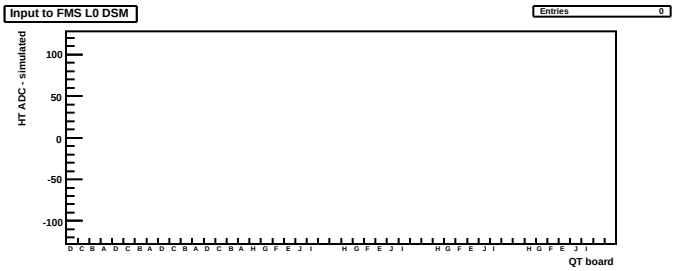

Input to FMS L0 DSM
Entries 3.845405e+07
QT8(2) sum
QT board

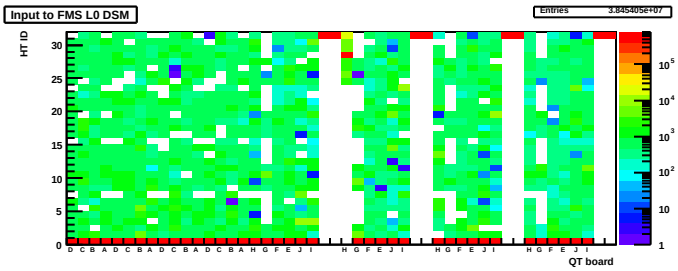

Input to FMS L0 DSM
Entries 563698
QT8(2) sum - simulated
QT board

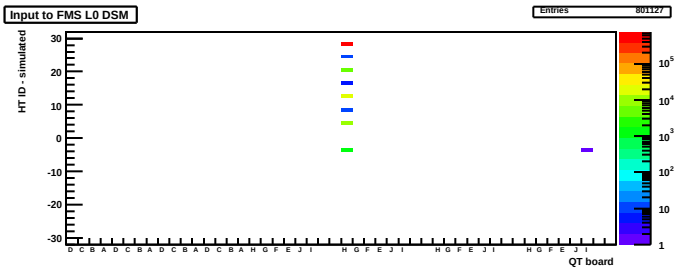

Input to FMS L0 DSM
Entries 3.845405e+07
QT8(3) sum
QT board

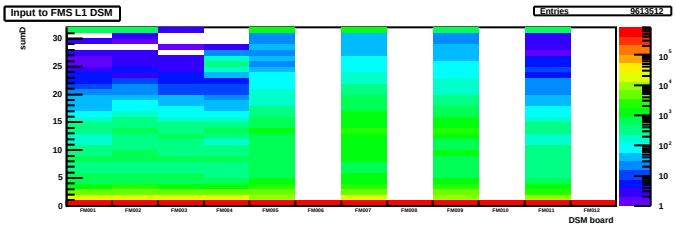

Input to FMS L0 DSM
Entries 744064
QT8(3) sum - simulated
QT board

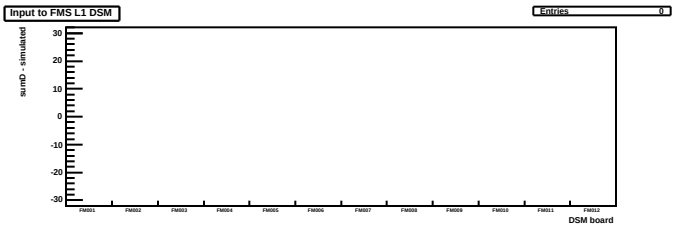

Input to FMS L0 DSM
Entries 3.845405e+07
HT ADC
QT board

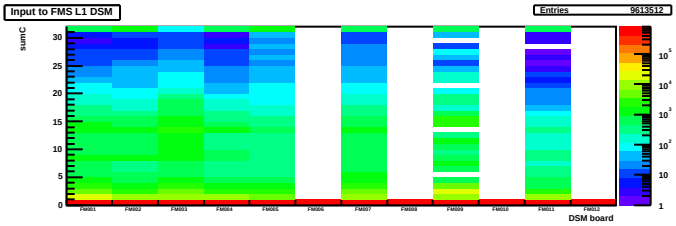

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

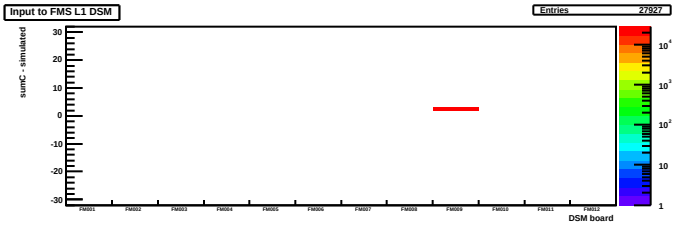

Input to FMS L0 DSM
Entries 3.845405e+07
HT ID
QT board

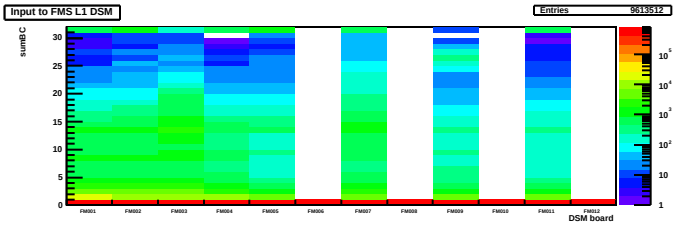

Input to FMS L0 DSM
Entries 801127
HT ID - simulated
QT board

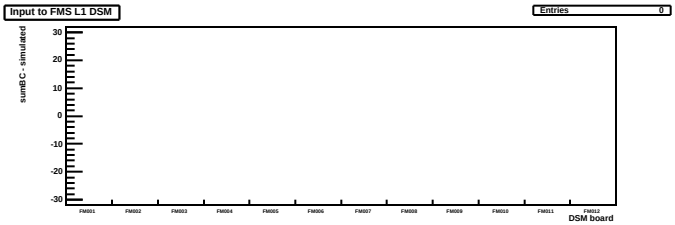

Input to FMS L1 DSM
Entries 9613512
sumD
DSM board

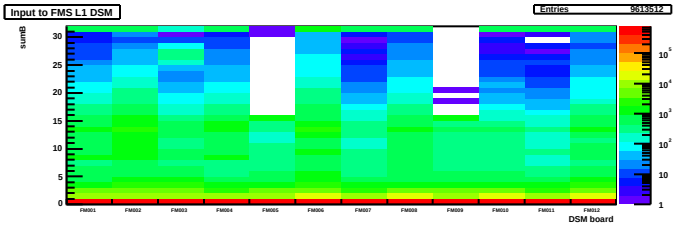

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

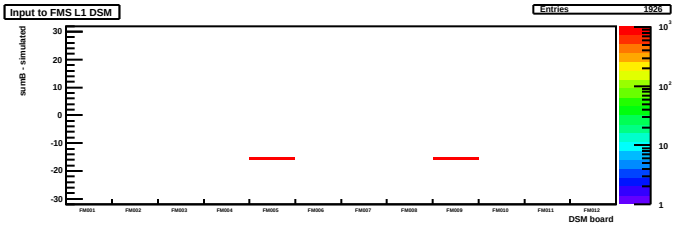

Input to FMS L1 DSM
Entries 9613512
sumC
DSM board

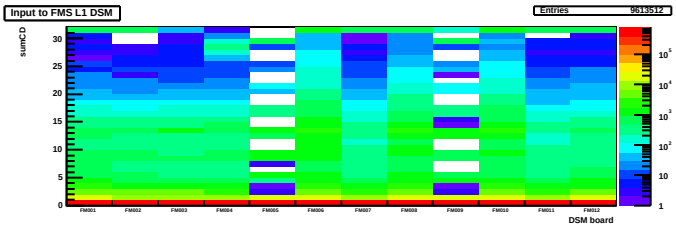

Input to FMS L1 DSM
Entries 27927
sumC - simulated
DSM board

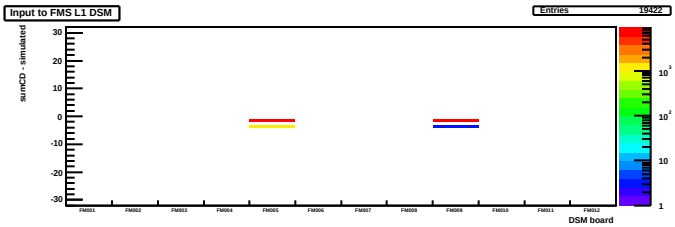

Input to FMS L1 DSM
Entries 9613512
sumBC
DSM board

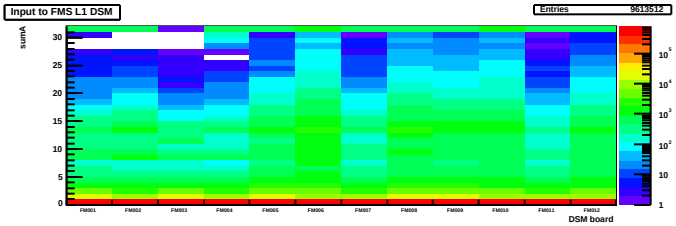

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

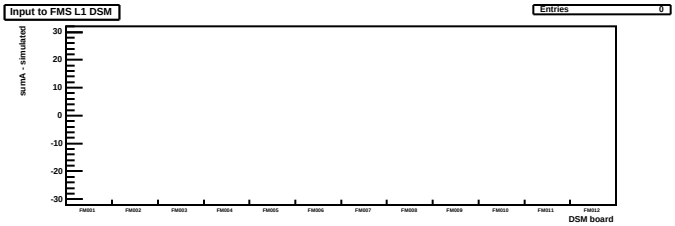

Input to FMS L1 DSM
Entries 9613512
sumB
DSM board

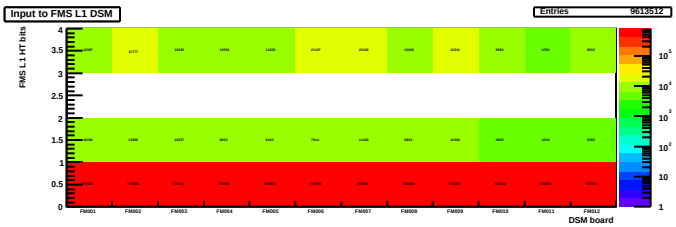

Input to FMS L1 DSM
Entries 1926
sumB - simulated
DSM board

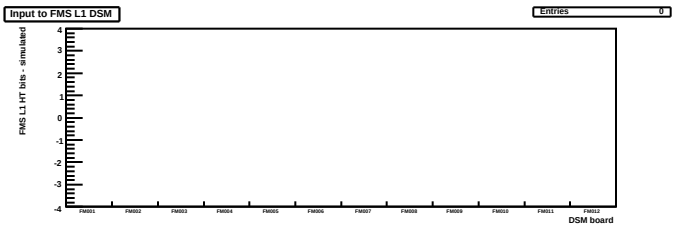

Input to FMS L1 DSM
Entries 9613512
sumCD
DSM board

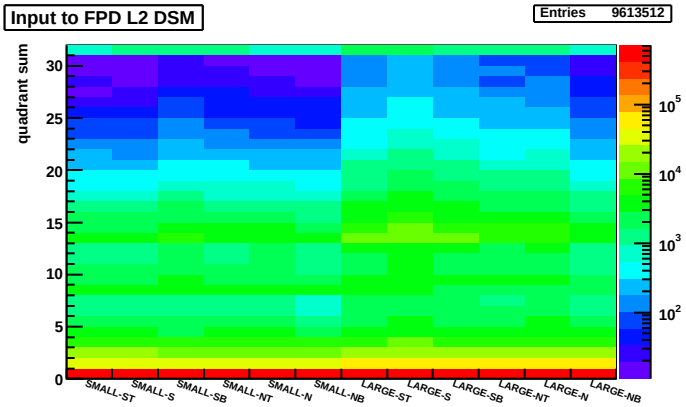

Input to FMS L1 DSM
Entries 19422
sumCD - simulated
DSM board

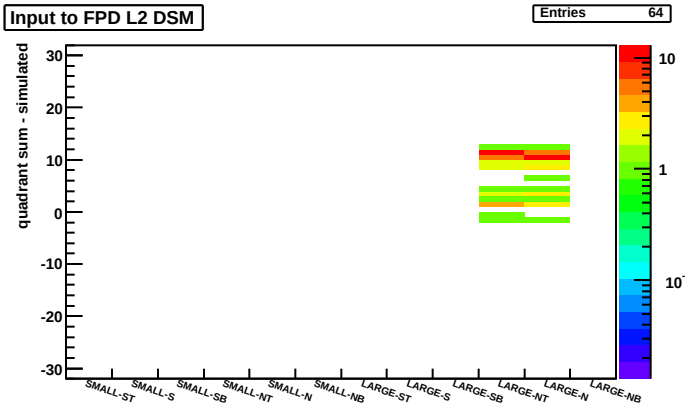

Input to FMS L1 DSM
Entries 9613512
sumA
DSM board

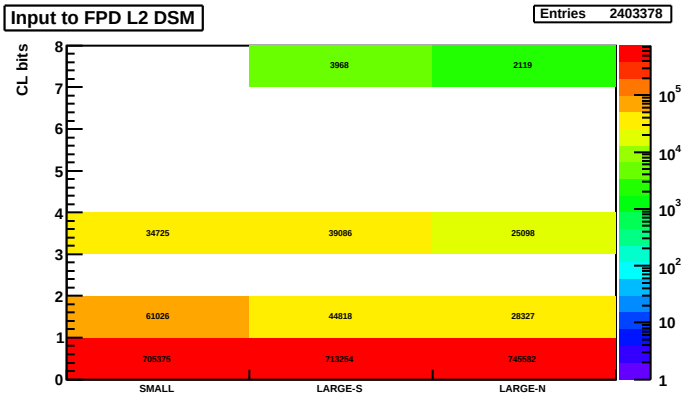

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

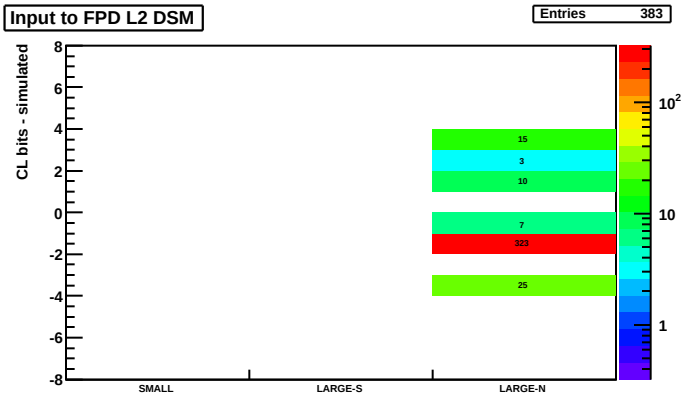

Input to FMS L1 DSM
Entries 9613512
FMS L1 HT bits
DSM board

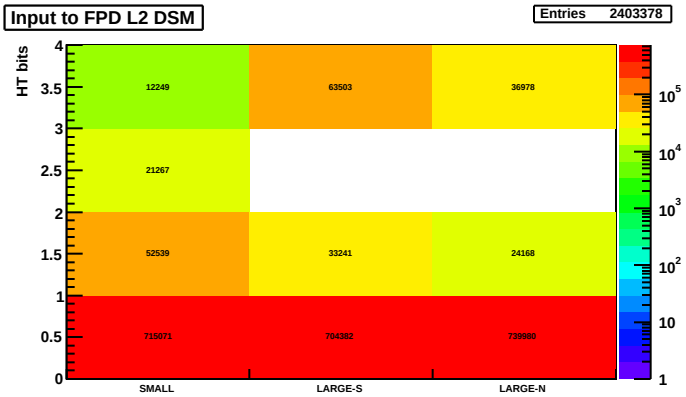

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

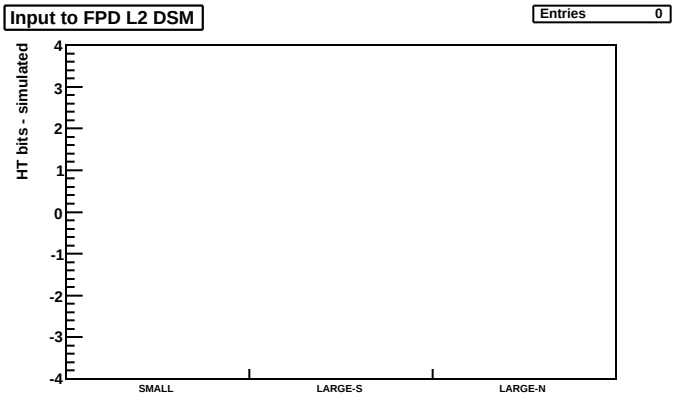

Input to FPD L2 DSM
Entries 9613512
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

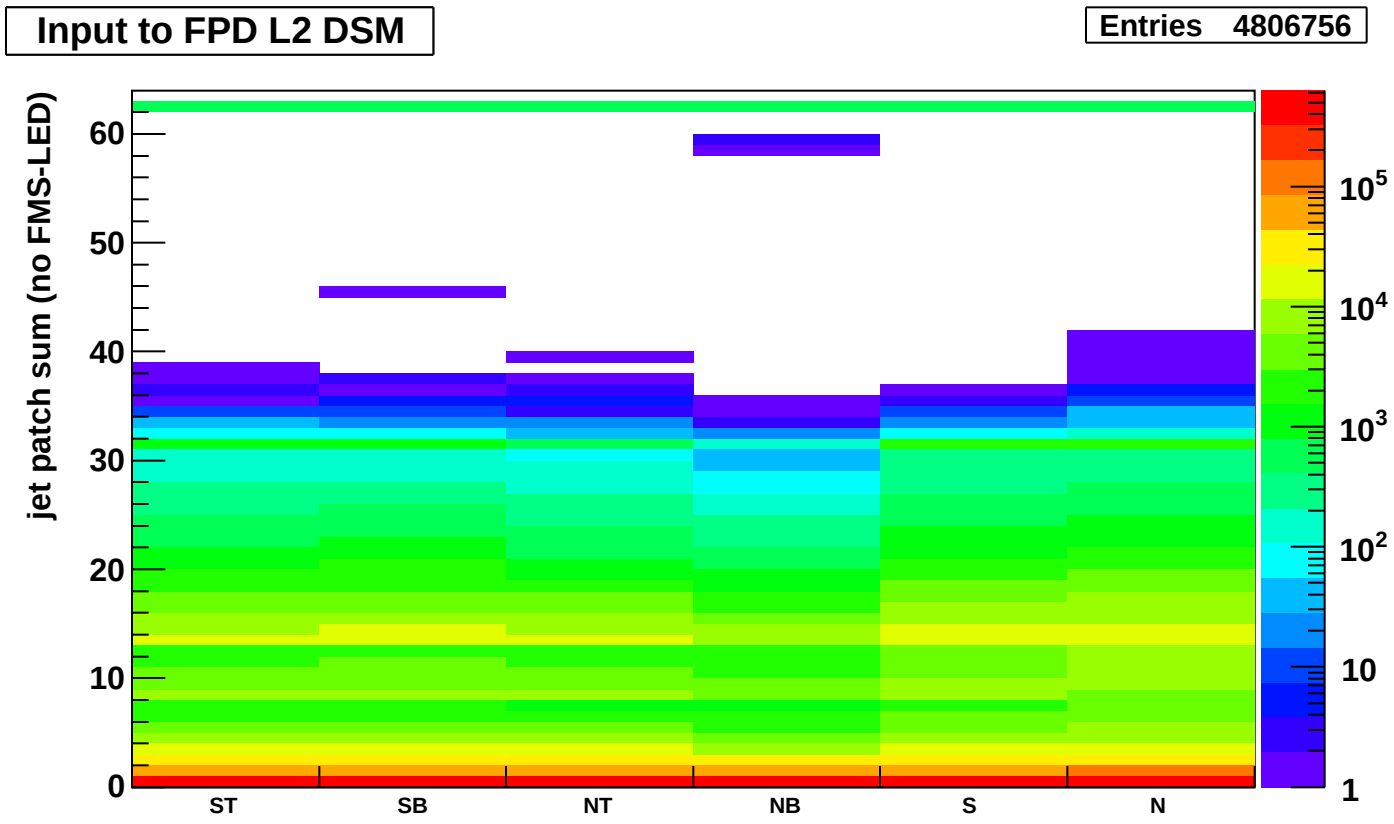

Input to FPD L2 DSM
Entries 64
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

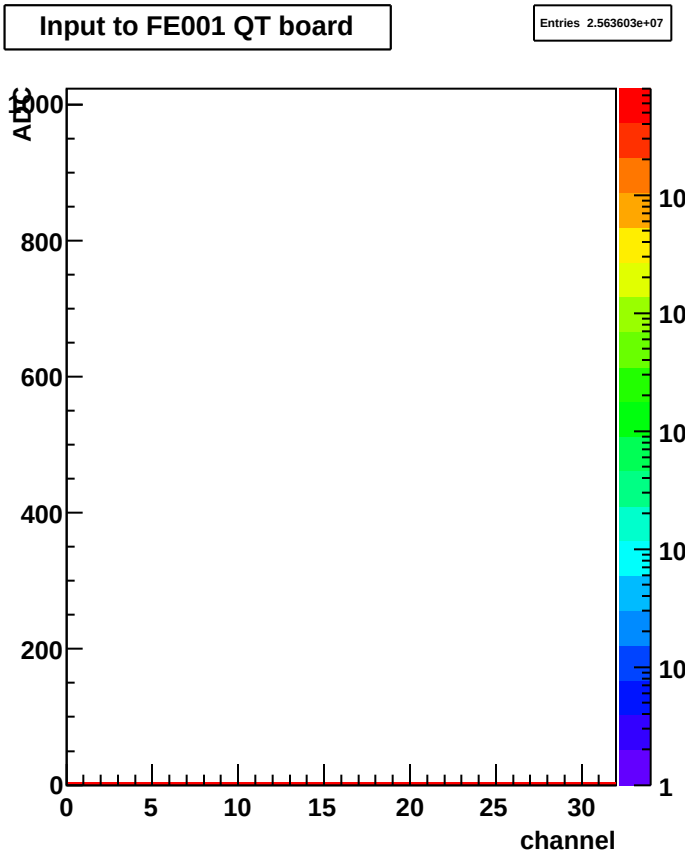

Input to FPD L2 DSM
Entries 2403378
CL bits
3968
2119
34725
39086
25098
61026
44818
28327
705375
713254
745582
SMALL
LARGE-S
LARGE-N

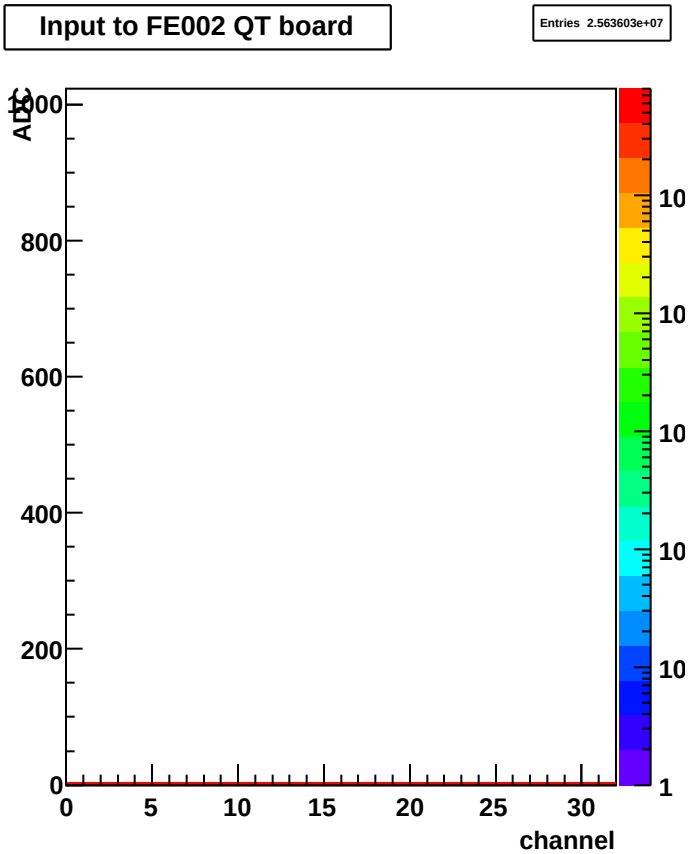

Input to FPD L2 DSM
Entries 383
CL bits - simulated
15
3
10
7
323
25
SMALL
LARGE-S
LARGE-N

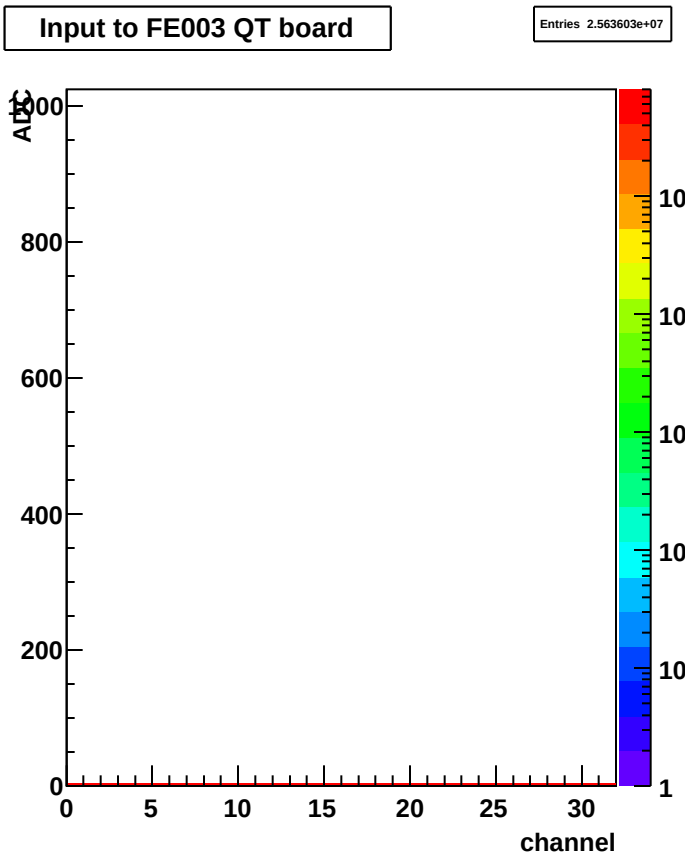

Input to FPD L2 DSM
Entries 2403378
HT bits
12249
63503
36978
21267
52539
33241
24168
715071
704382
739980
SMALL
LARGE-S
LARGE-N

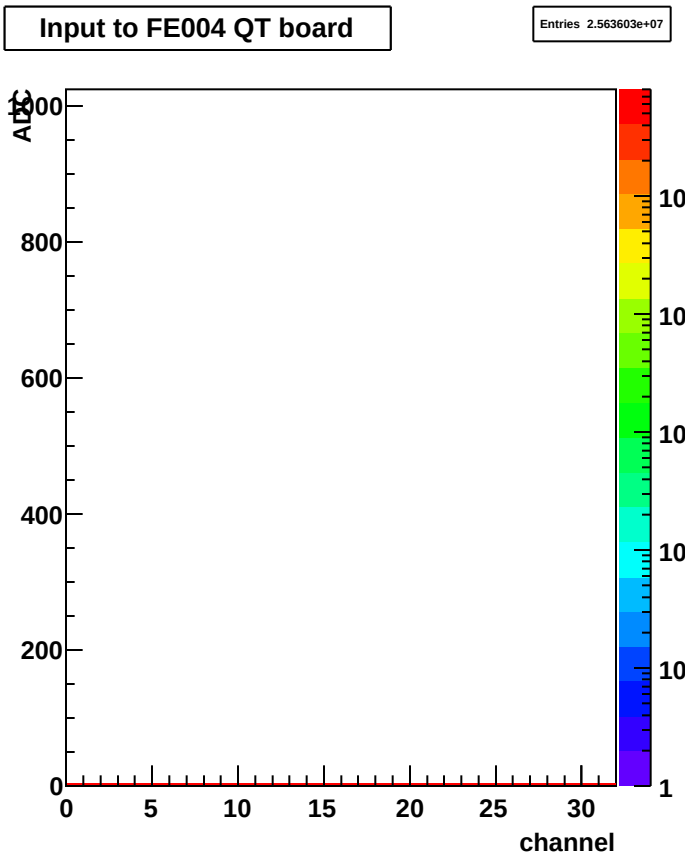

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

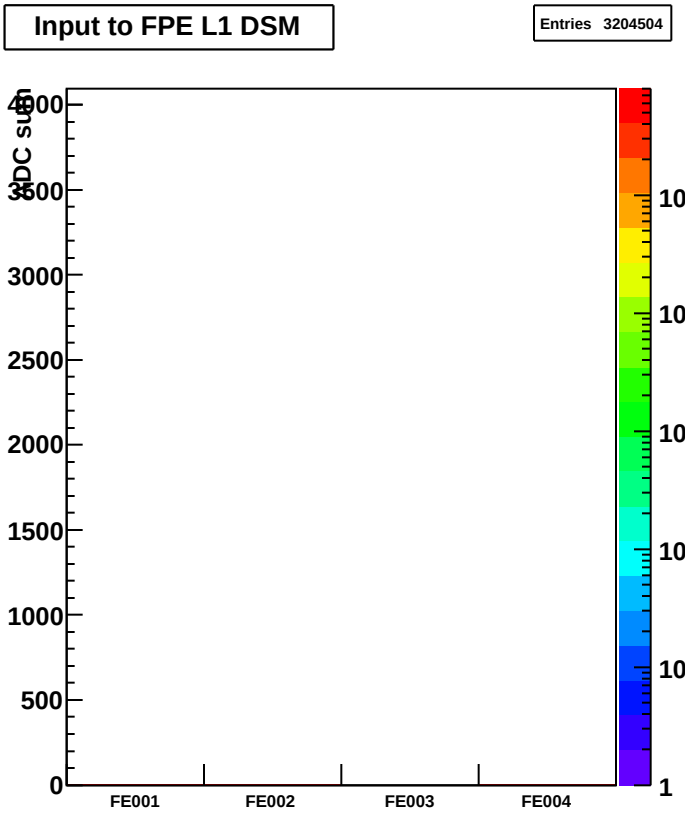

Input to FPD L2 DSM
Entries 4806756
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

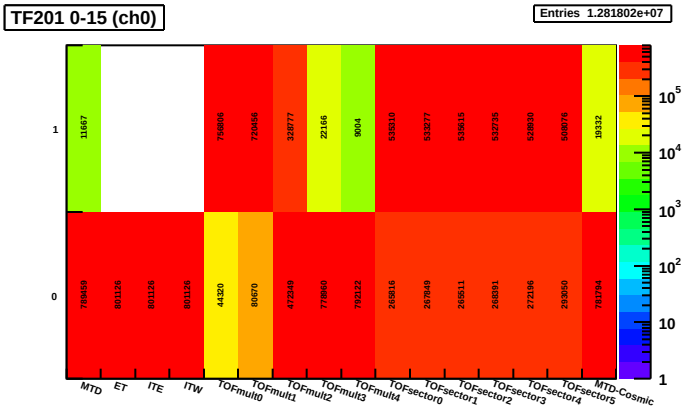

Input to FE001 QT board
Entries 2.563603e+07
ADC
channel

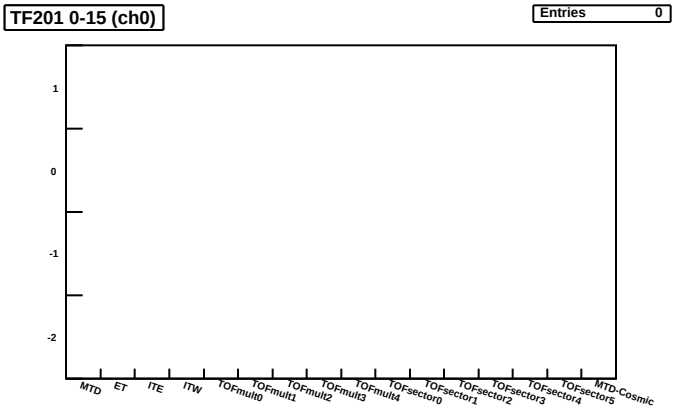

Input to FE002 QT board
Entries 2.563603e+07
ADC
channel

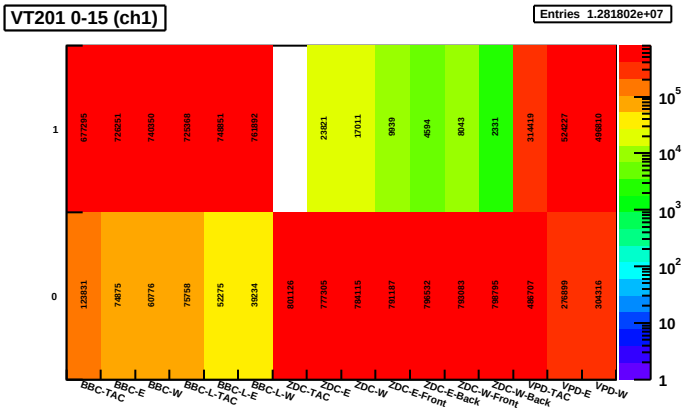

Input to FE003 QT board
Entries 2.563603e+07
ADC
channel

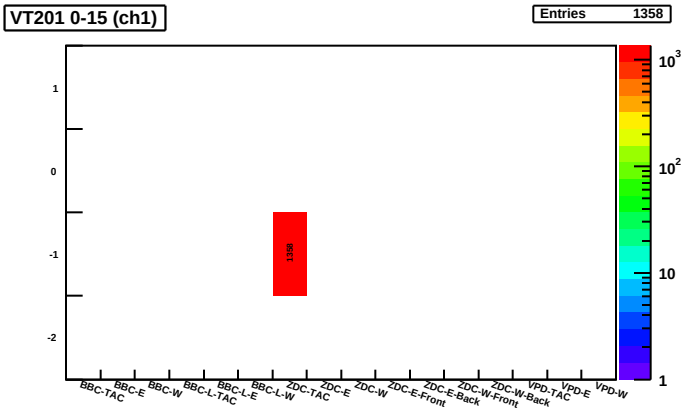

Input to FE004 QT board
Entries 2.563603e+07
ADC
channel


Input to FPE L1 DSM
Entries 3204504
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 1.281802e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 1.281802e+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 1358
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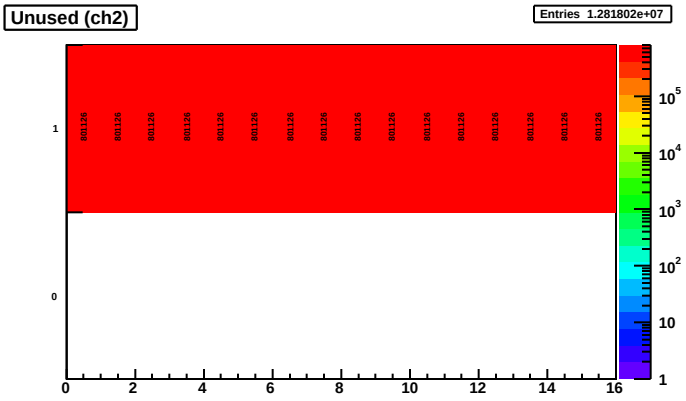
Unused (ch2)
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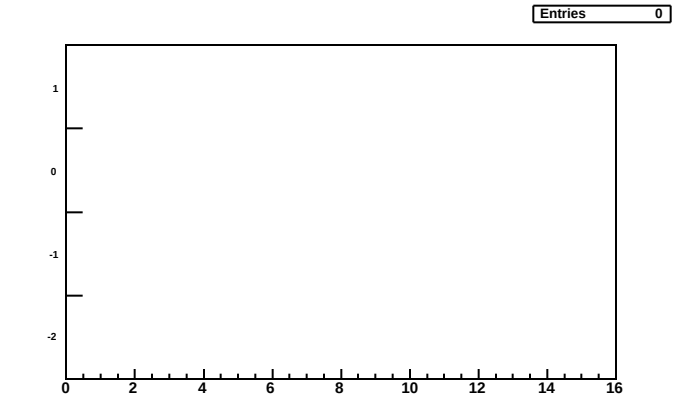
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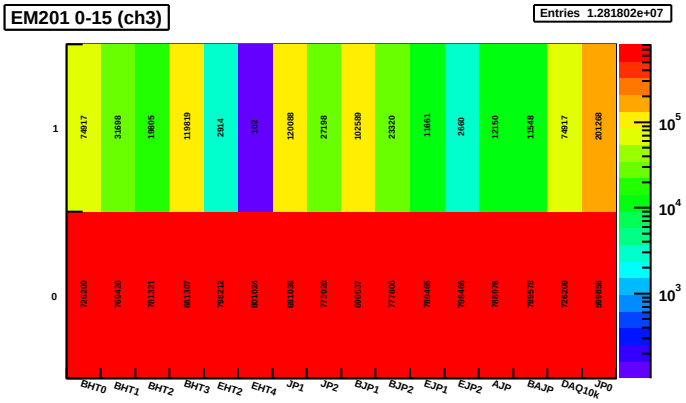
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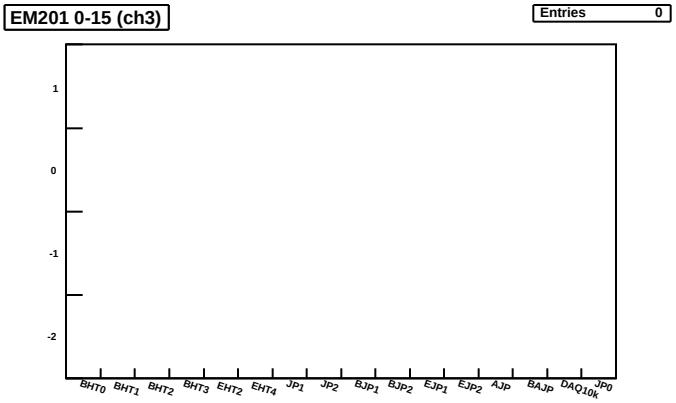
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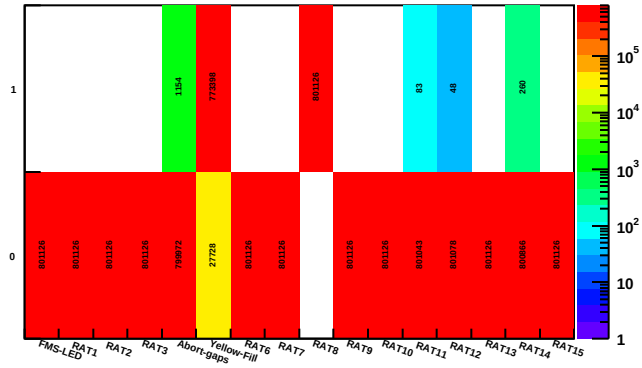
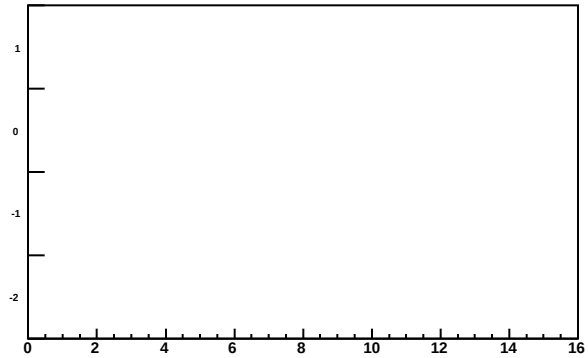
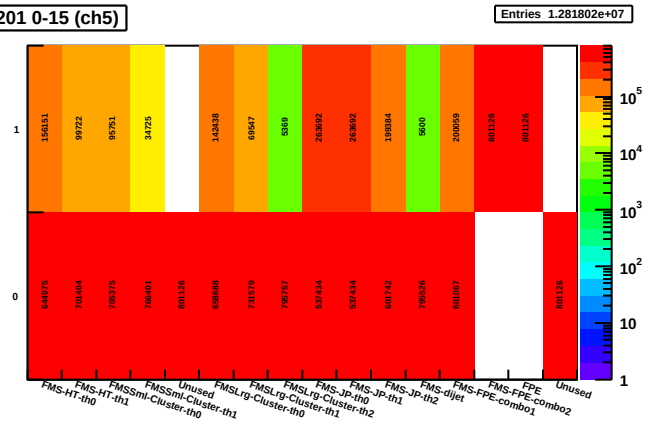
RAT board (ch4)

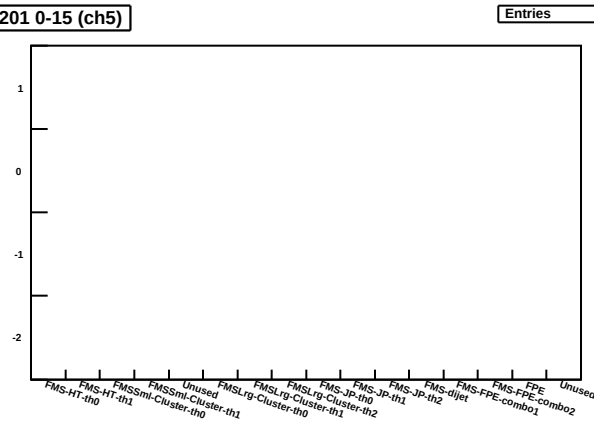




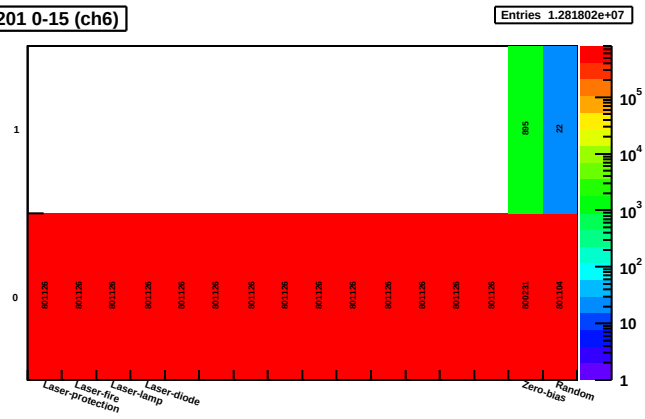
FP201 0-15 (ch5)

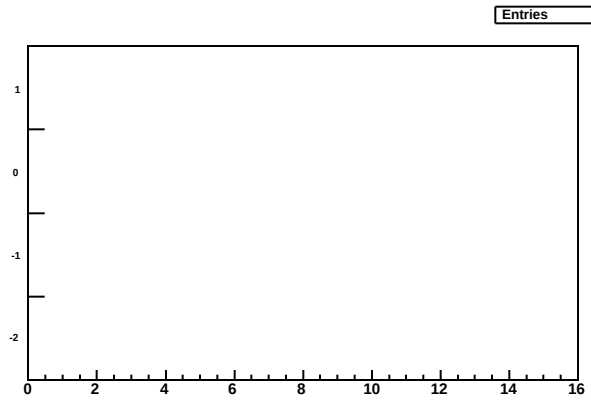
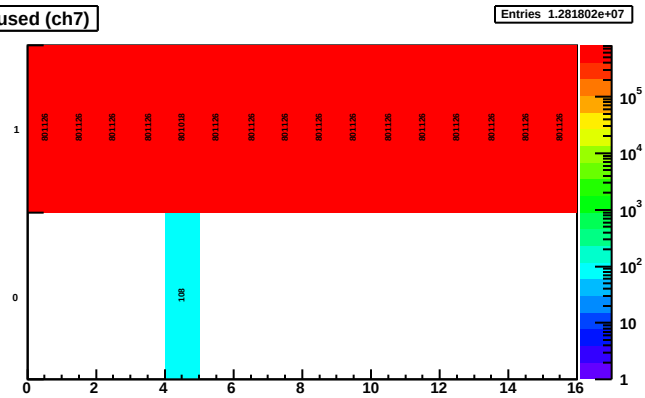
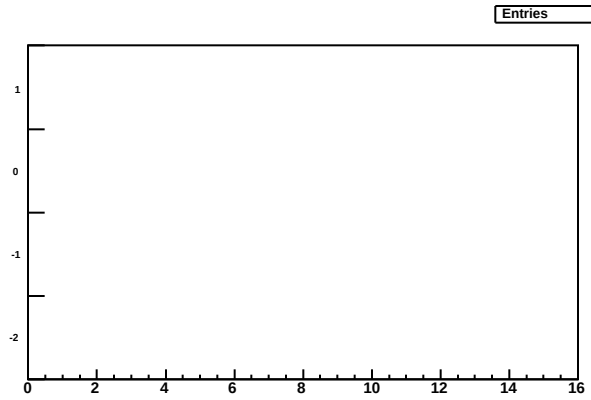


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)