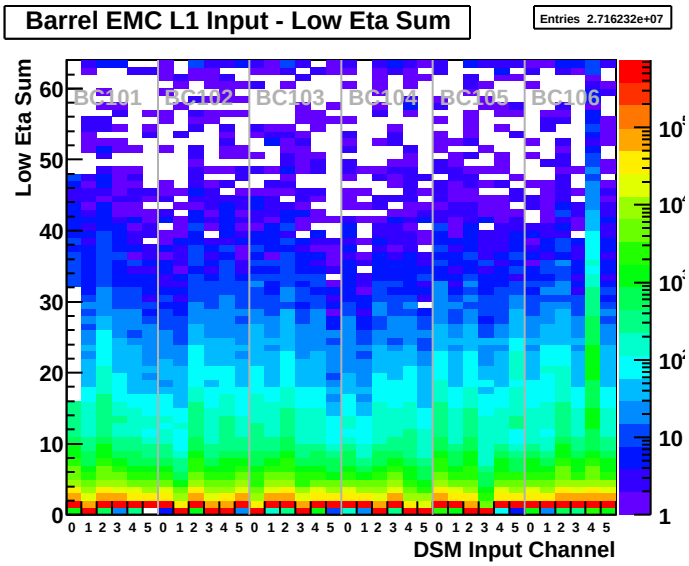
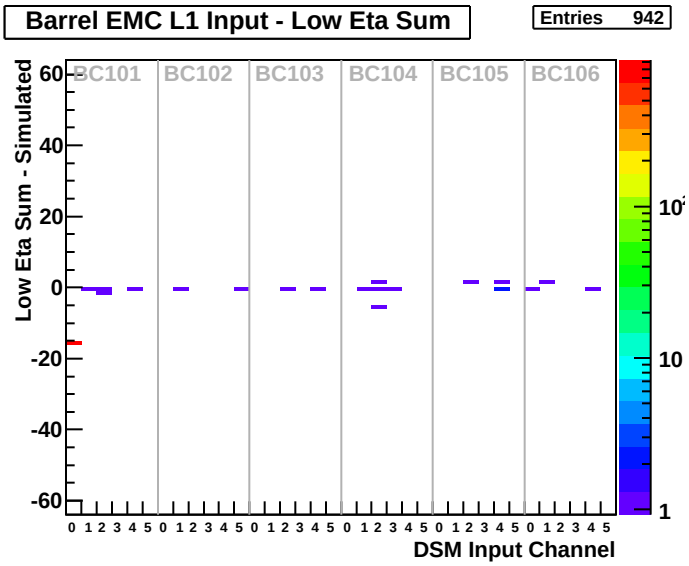
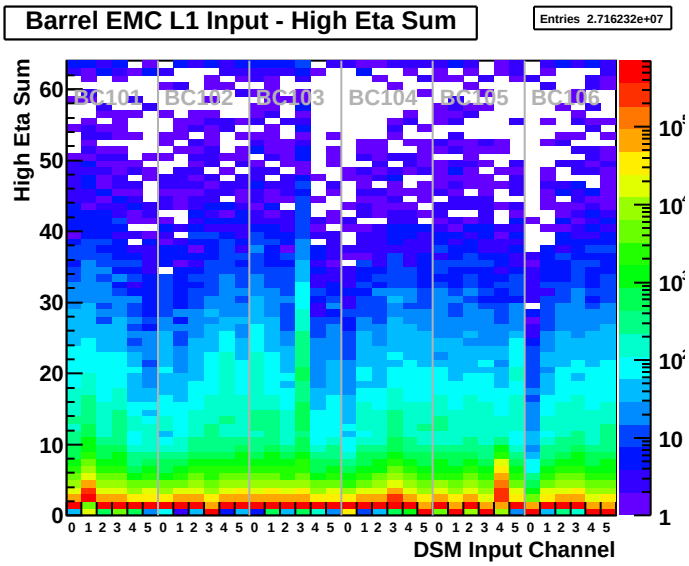
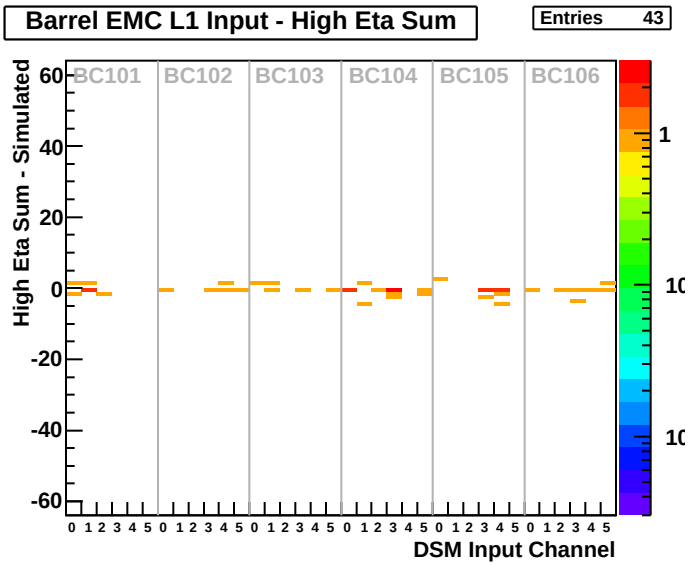
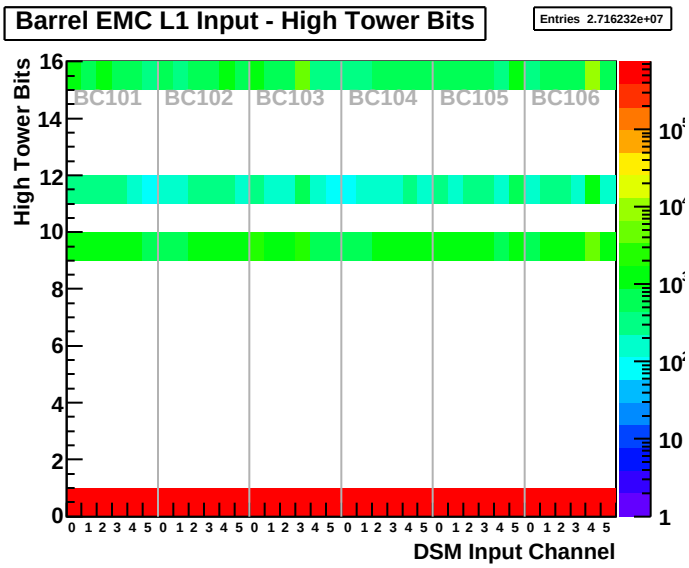
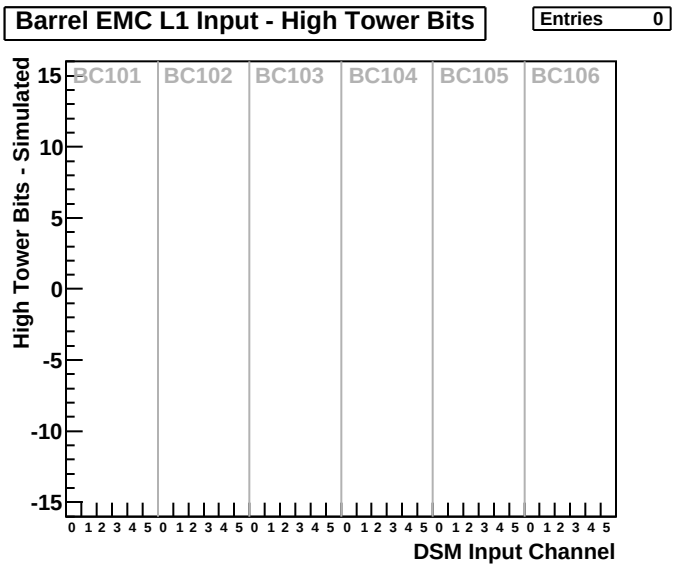

Barrel EMC L1 Input - Low Eta Sum
Entries 2.716232e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

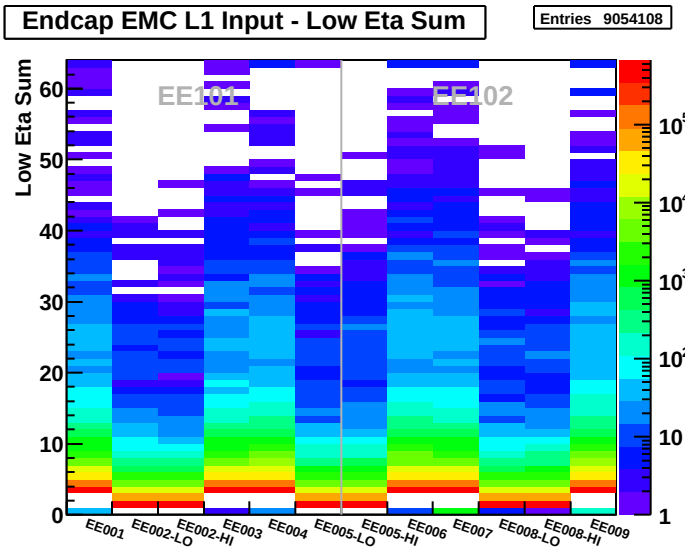

Barrel EMC L1 Input - Low Eta Sum
Entries 942
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

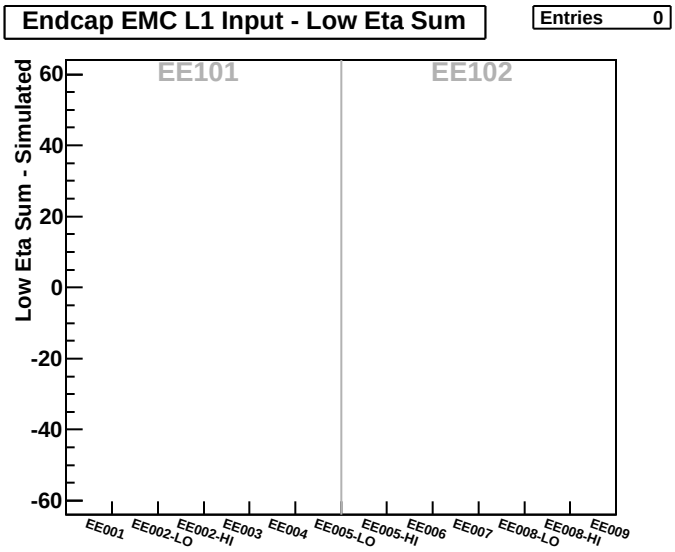

Barrel EMC L1 Input - High Eta Sum
Entries 2.716232e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

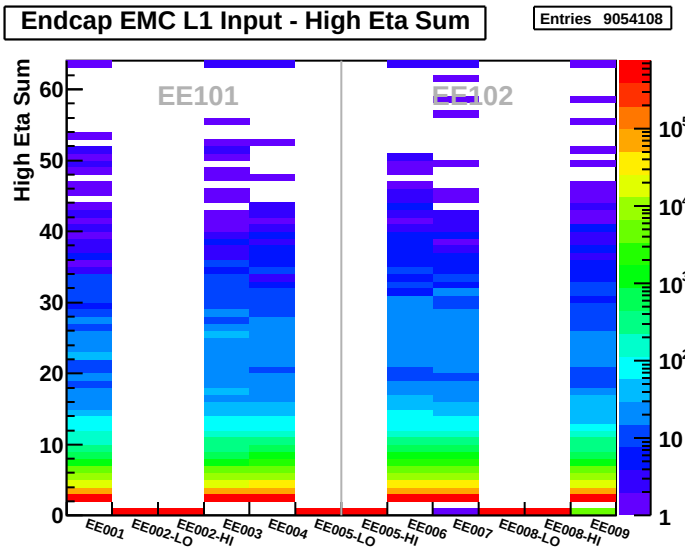

Barrel EMC L1 Input - High Eta Sum
Entries 43
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

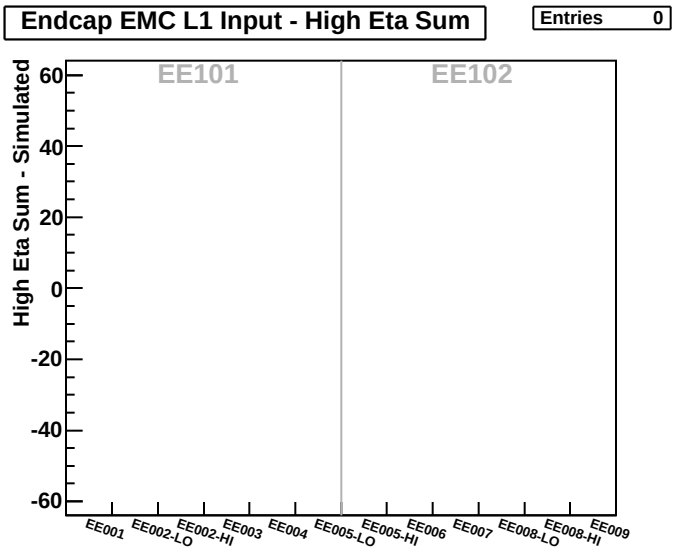

Barrel EMC L1 Input - High Tower Bits
Entries 2.716232e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

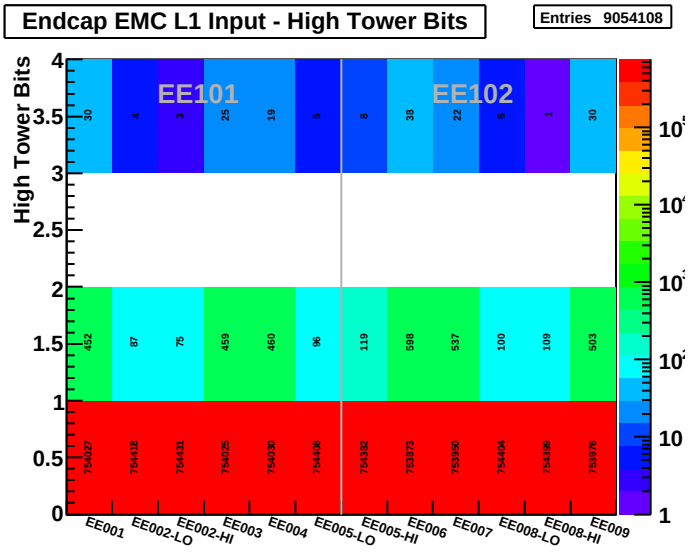

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

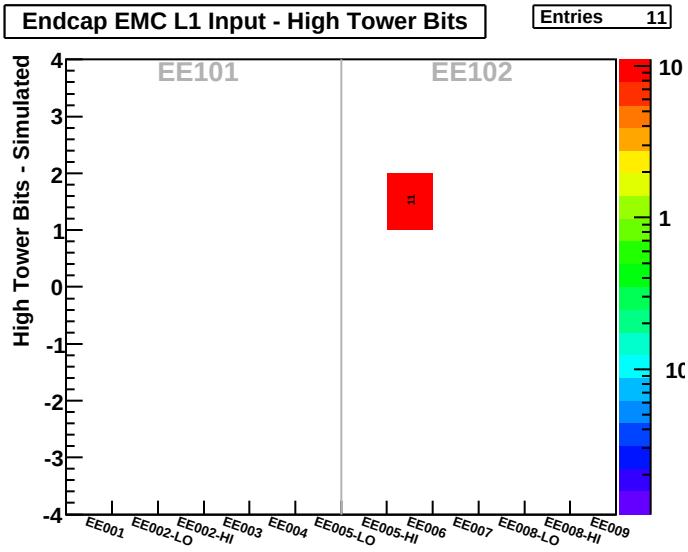

Endcap EMC L1 Input - Low Eta Sum
Entries 9054108
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

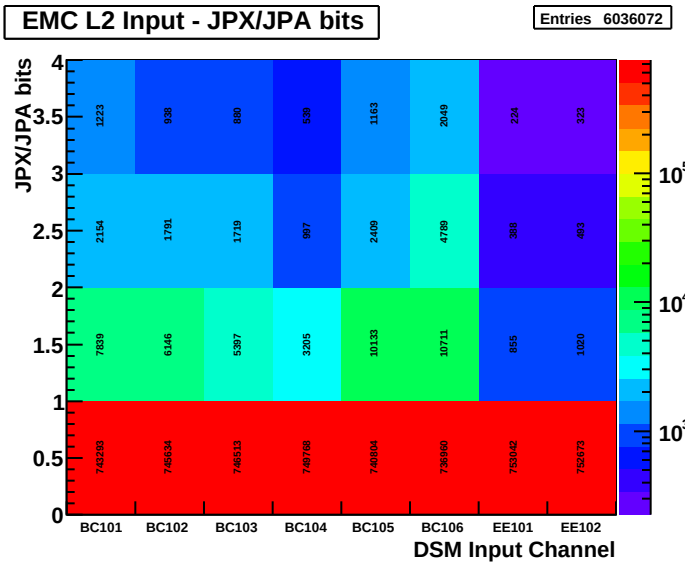

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

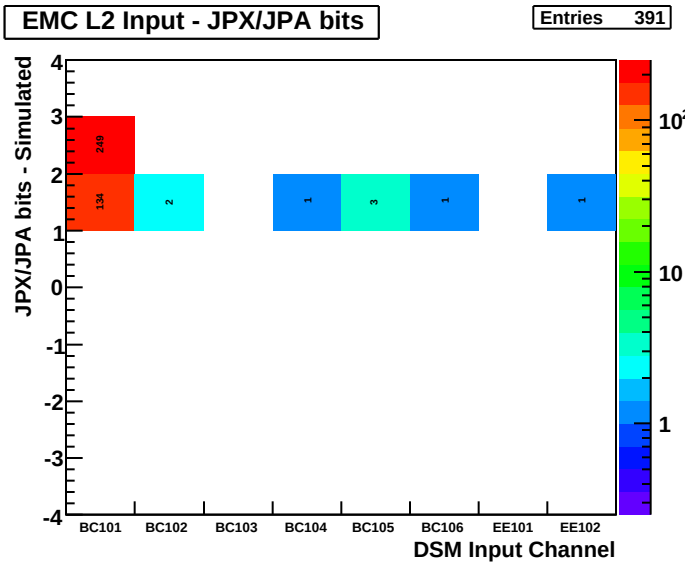

Endcap EMC L1 Input - High Eta Sum
Entries 9054108
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

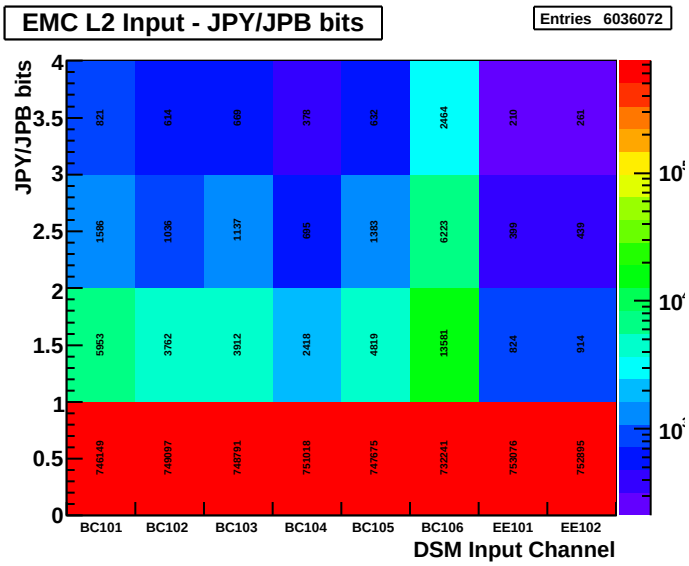

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

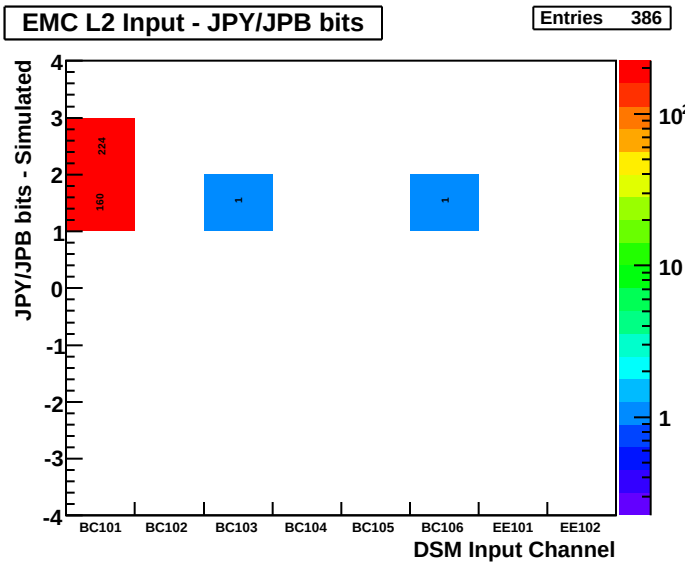

Endcap EMC L1 Input - High Tower Bits
Entries 9054108
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

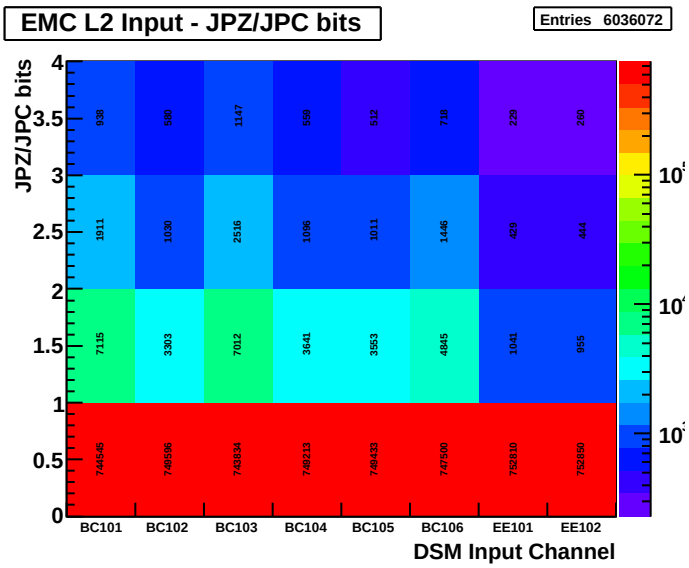

Endcap EMC L1 Input - High Tower Bits
Entries 11
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

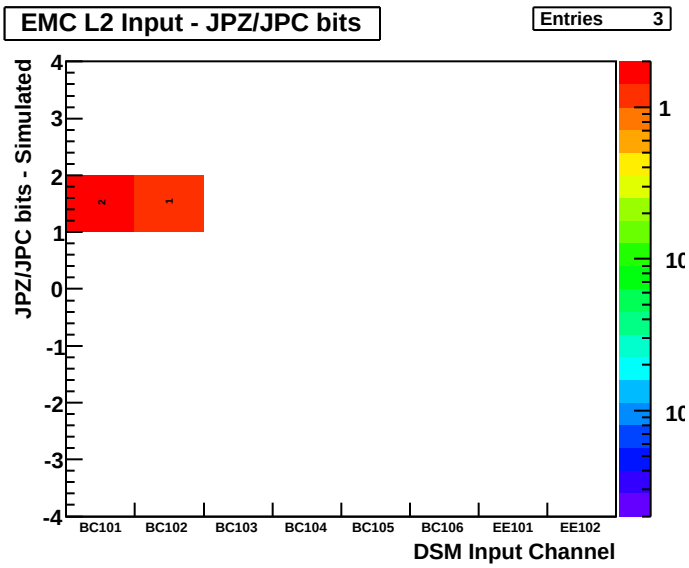

EMC L2 Input - JPX/JPA bits
Entries 6036072
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1223 938 880 539 1163 2049 224 323
2154 1791 1719 997 2409 4789 388 493
7839 6146 5397 3205 10133 10711 855 1020
743293 745634 746513 749768 740804 736960 753042 752673

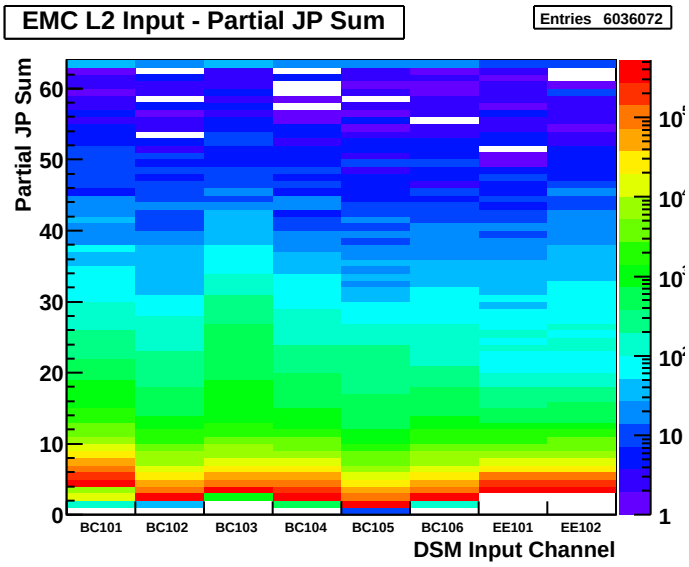

EMC L2 Input - JPX/JPA bits
Entries 391
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
249
134 2 1 3 1 1

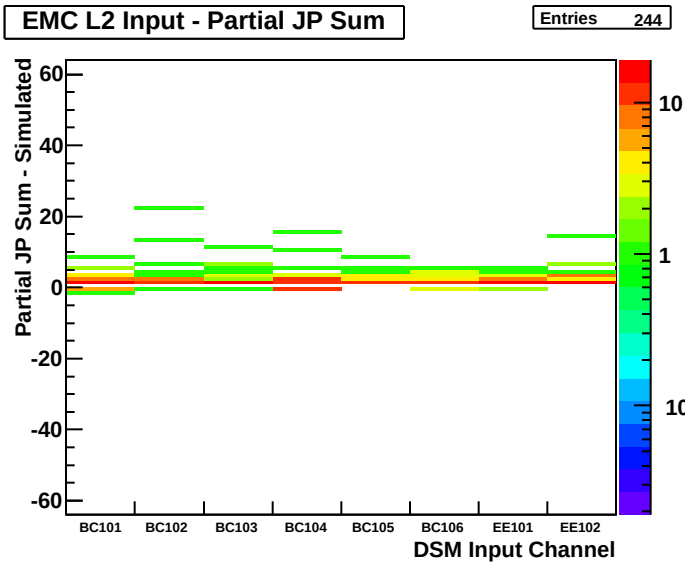

EMC L2 Input - JPY/JPB bits
Entries 6036072
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
821 614 669 378 632 2464 210 261
1586 1036 1137 685 1383 6223 399 439
5853 3762 3912 2418 4919 13581 824 914
746149 749097 748791 751018 747675 733241 753076 752895

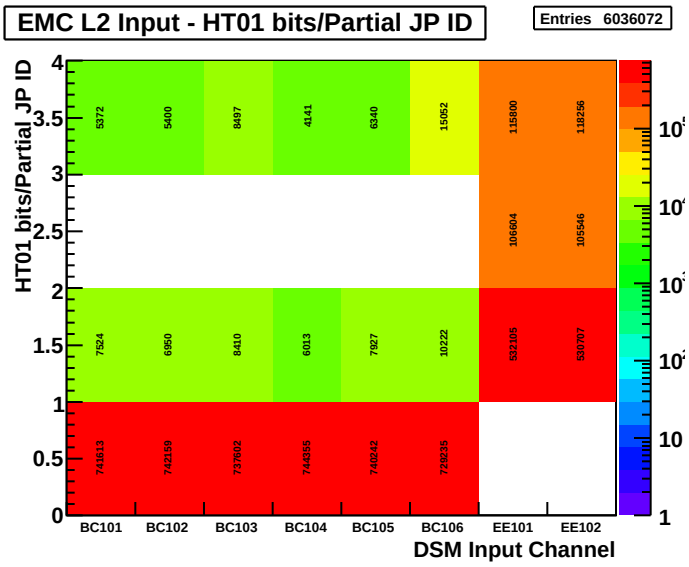

EMC L2 Input - JPY/JPB bits
Entries 386
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
224
160 1 1

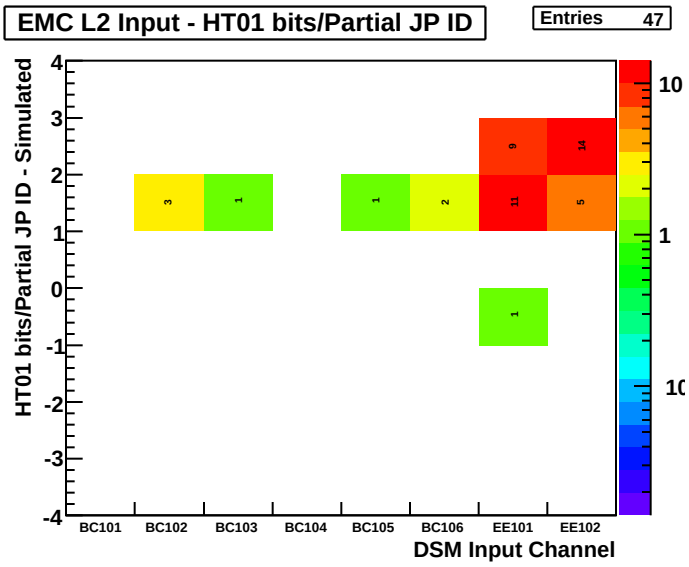

EMC L2 Input - JPZ/JPC bits
Entries 6036072
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
938 580 1147 559 512 718 229 260
1911 1030 2516 1096 1011 1446 429 444
7115 3303 7012 3641 3553 4845 1041 955
744545 749596 743834 749213 749433 747500 752810 752850

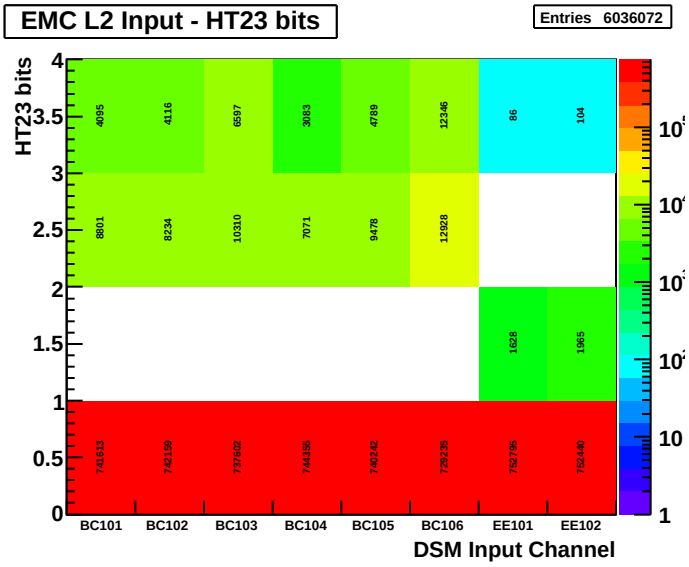

EMC L2 Input - JPZ/JPC bits
Entries 3
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1

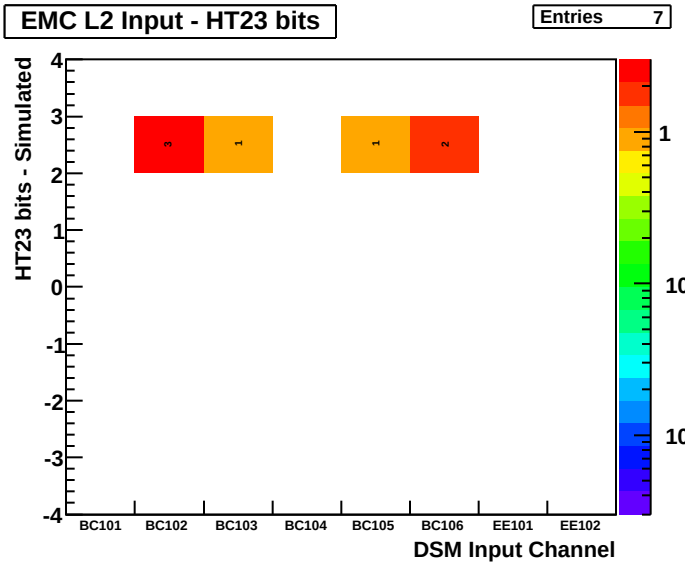

EMC L2 Input - Partial JP Sum
Entries 6036072
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

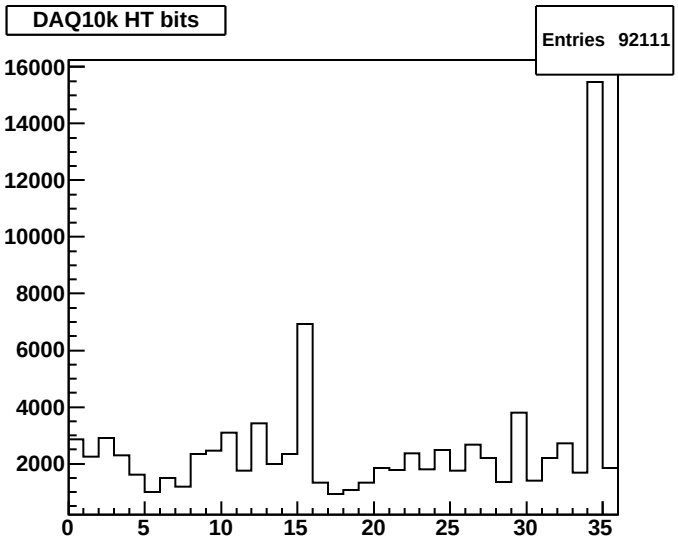

EMC L2 Input - Partial JP Sum
Entries 244
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

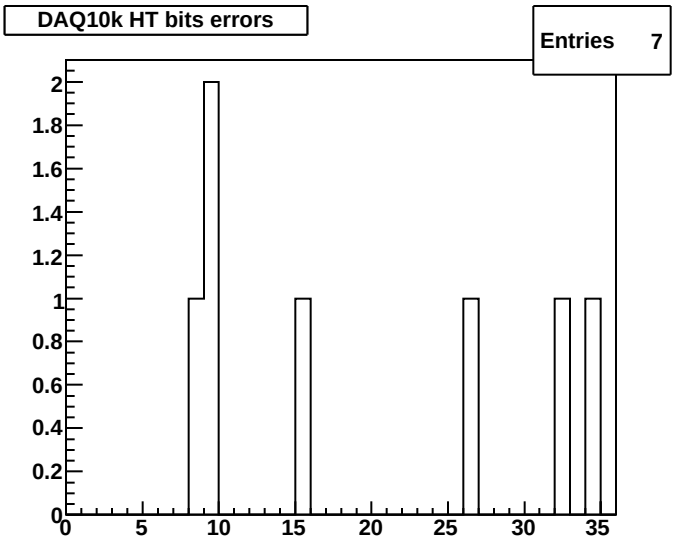

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6036072
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

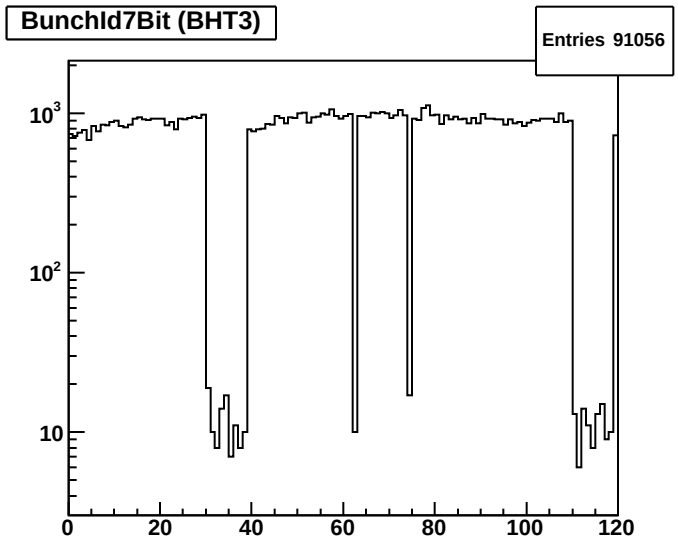

EMC L2 Input - HT01 bits/Partial JP ID
Entries 47
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

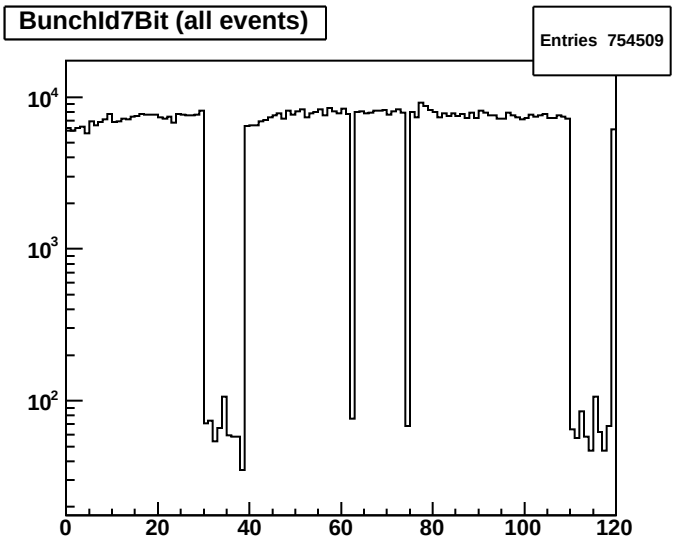

EMC L2 Input - HT23 bits
Entries 6036072
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

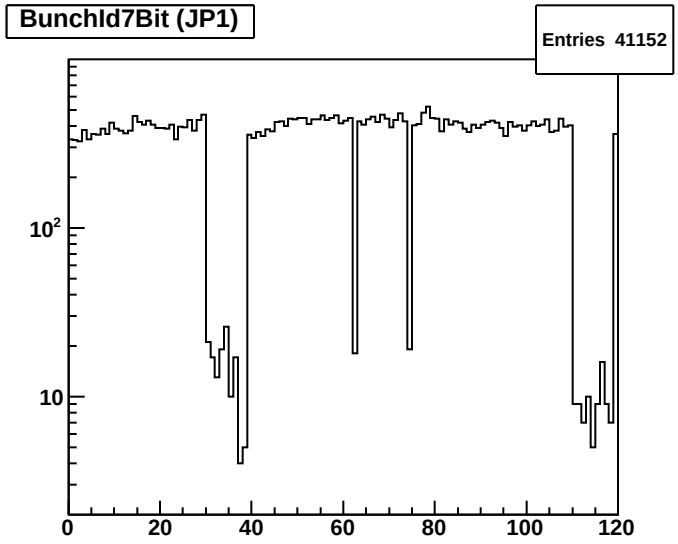

EMC L2 Input - HT23 bits
Entries 7
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

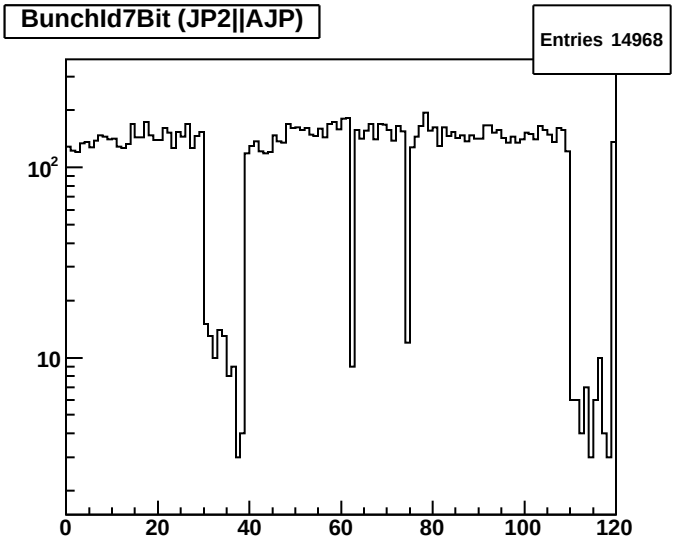

DAQ10k HT bits
Entries 92111

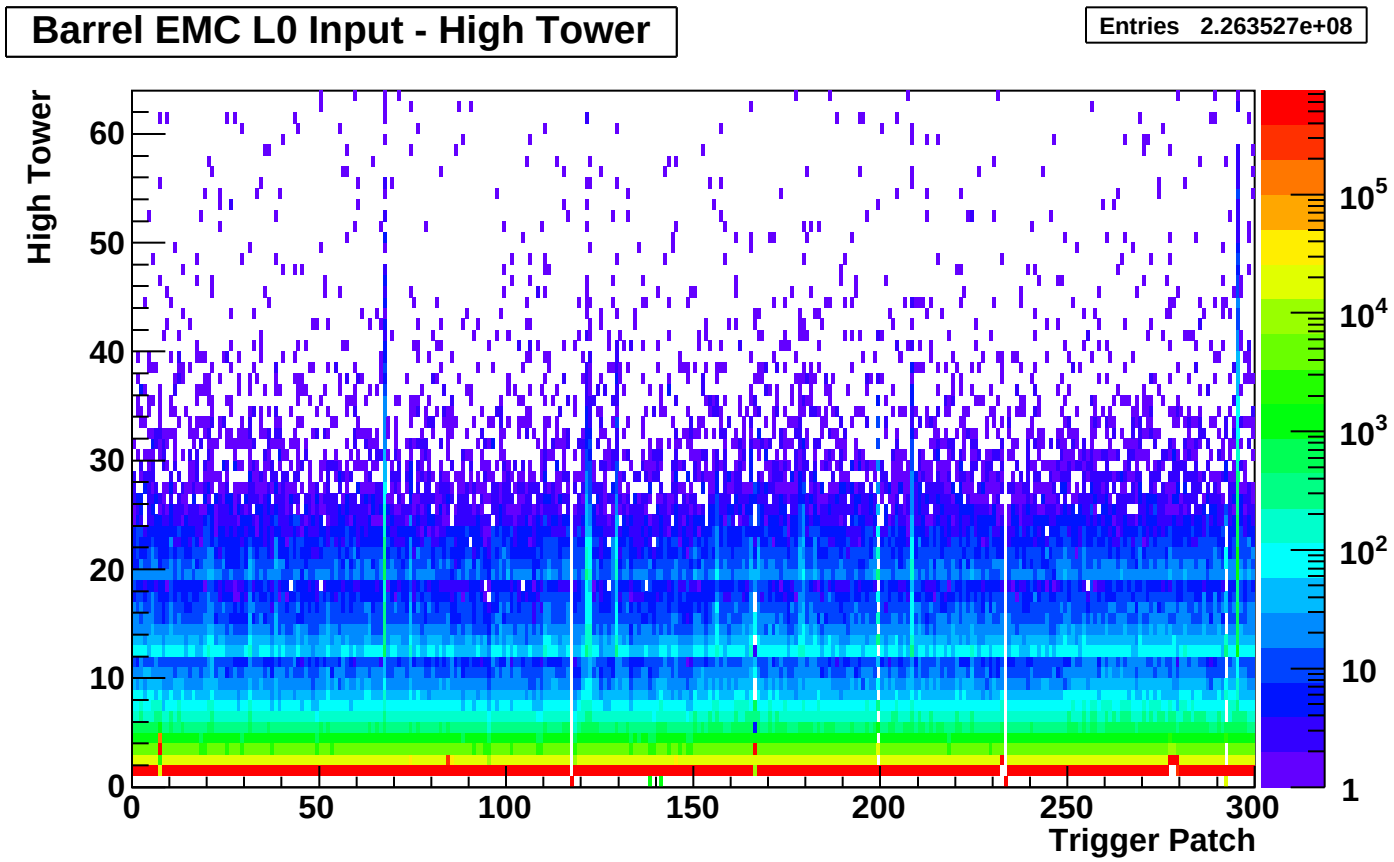

DAQ10k HT bits errors
Entries 7

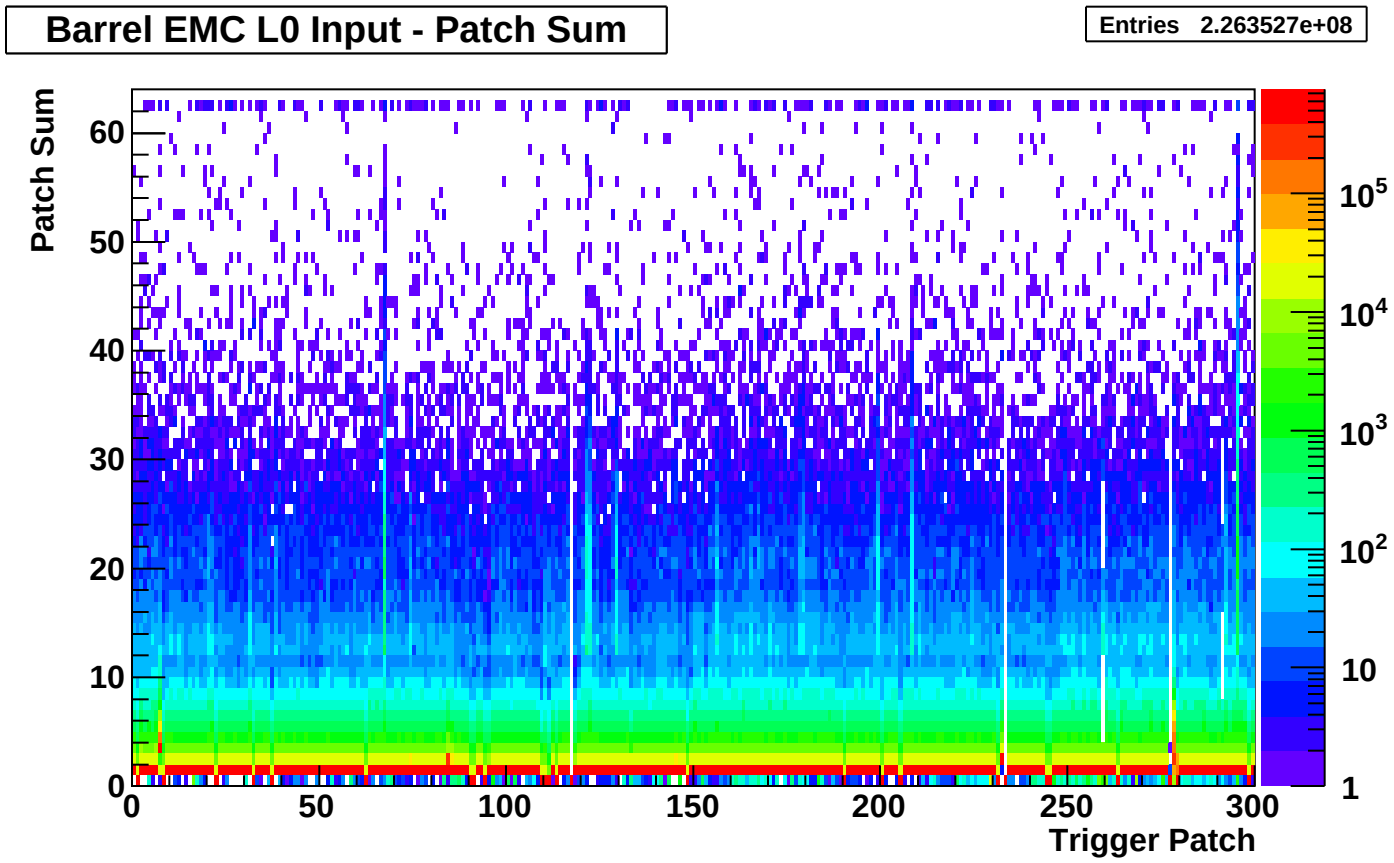

BunchId7Bit (BHT3)
Entries 91056

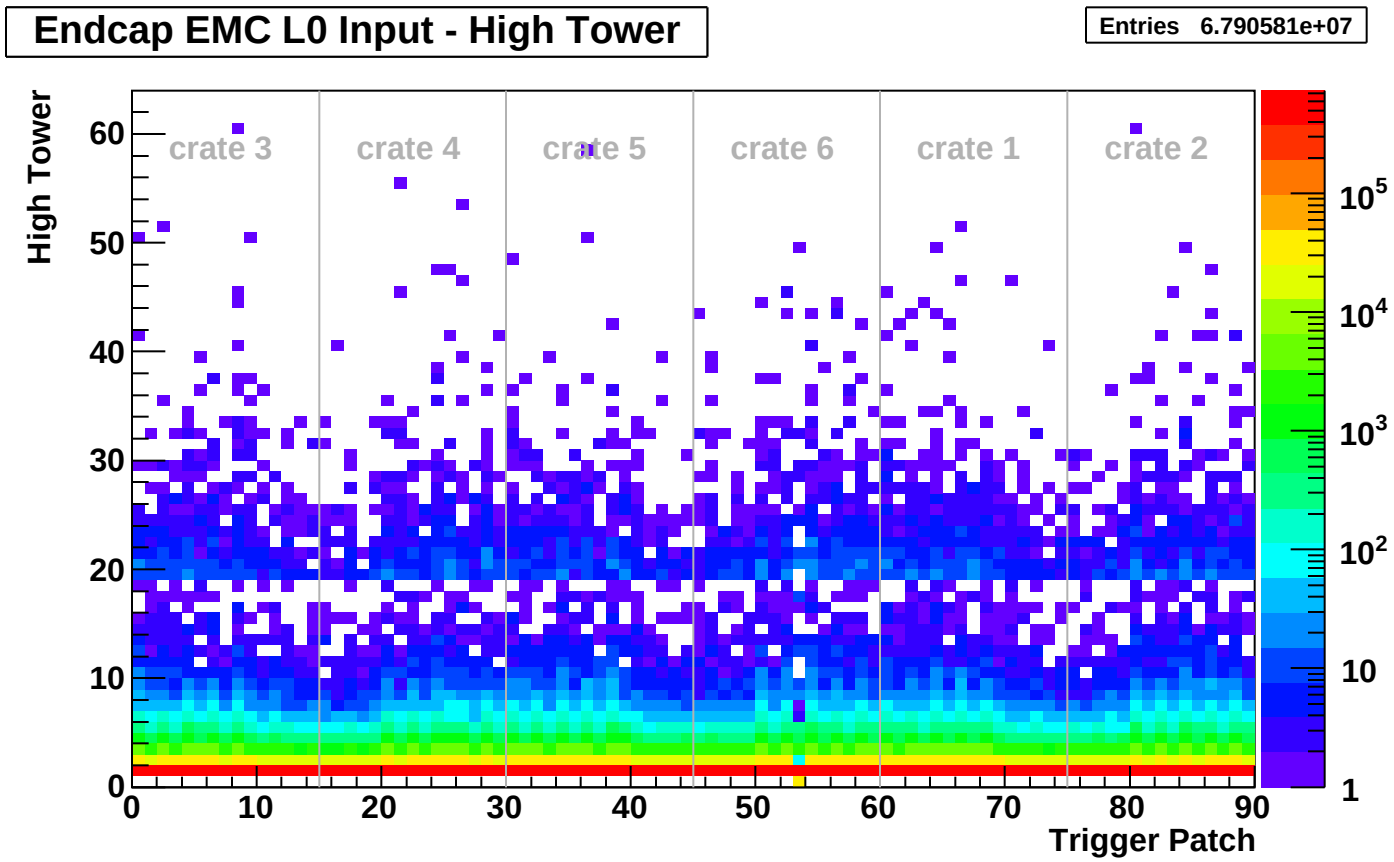

BunchId7Bit (all events)
Entries 754509

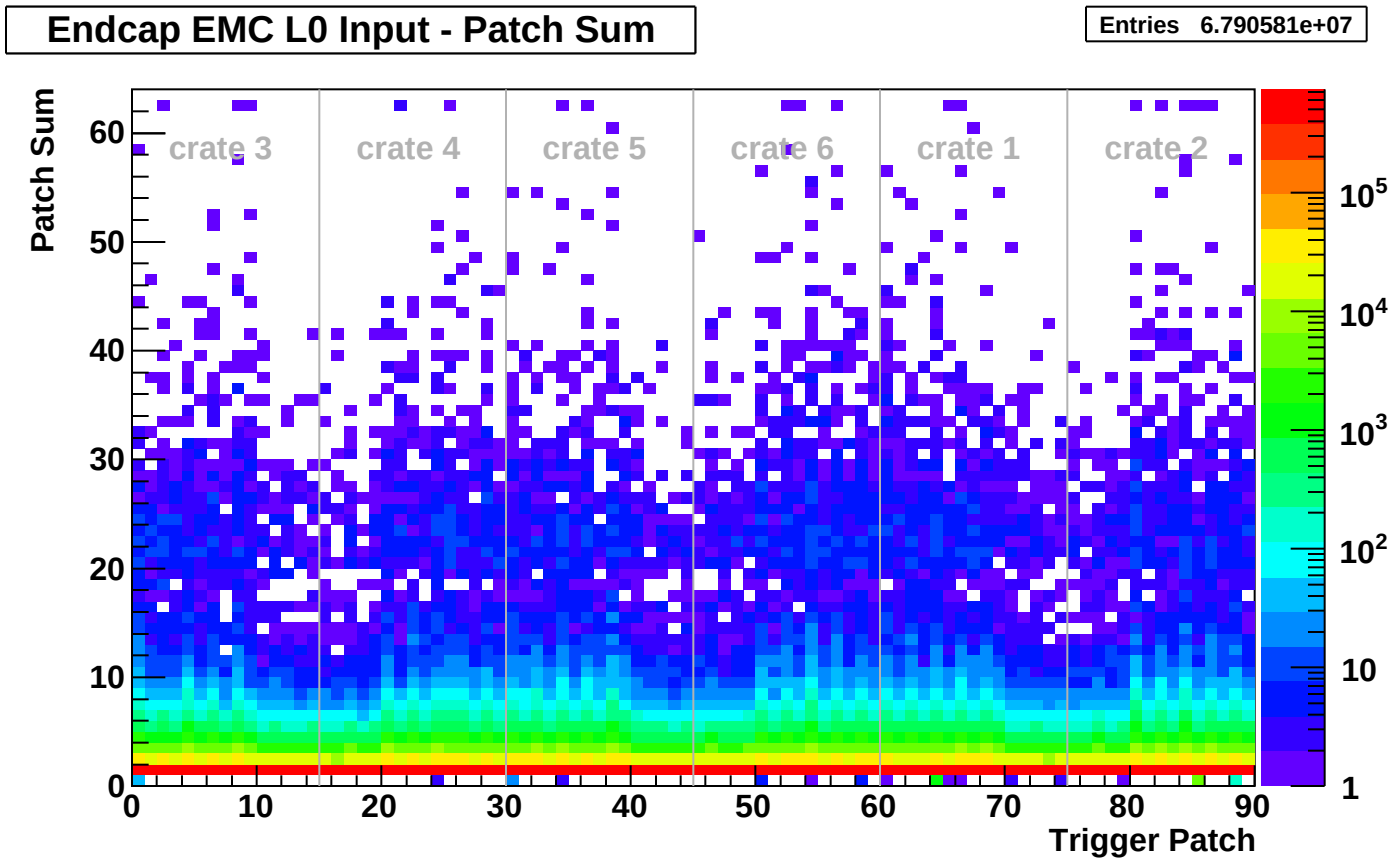

BunchId7Bit (JP1)
Entries 41152

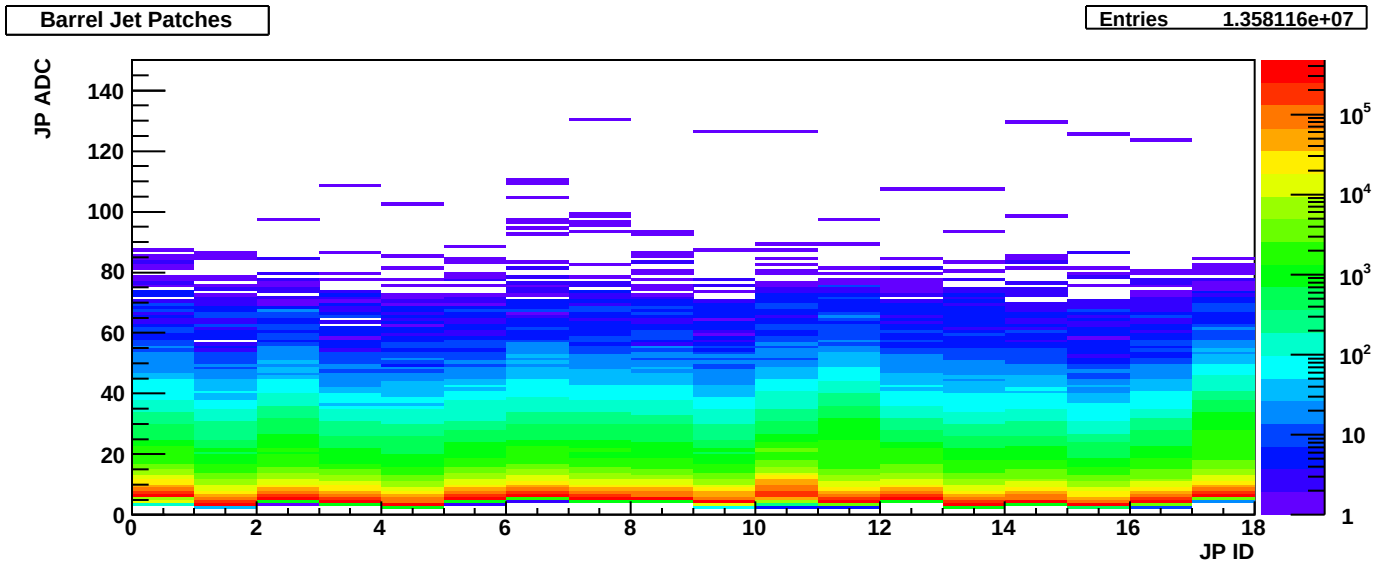

BunchId7Bit (JP2||AJP)
Entries 14968

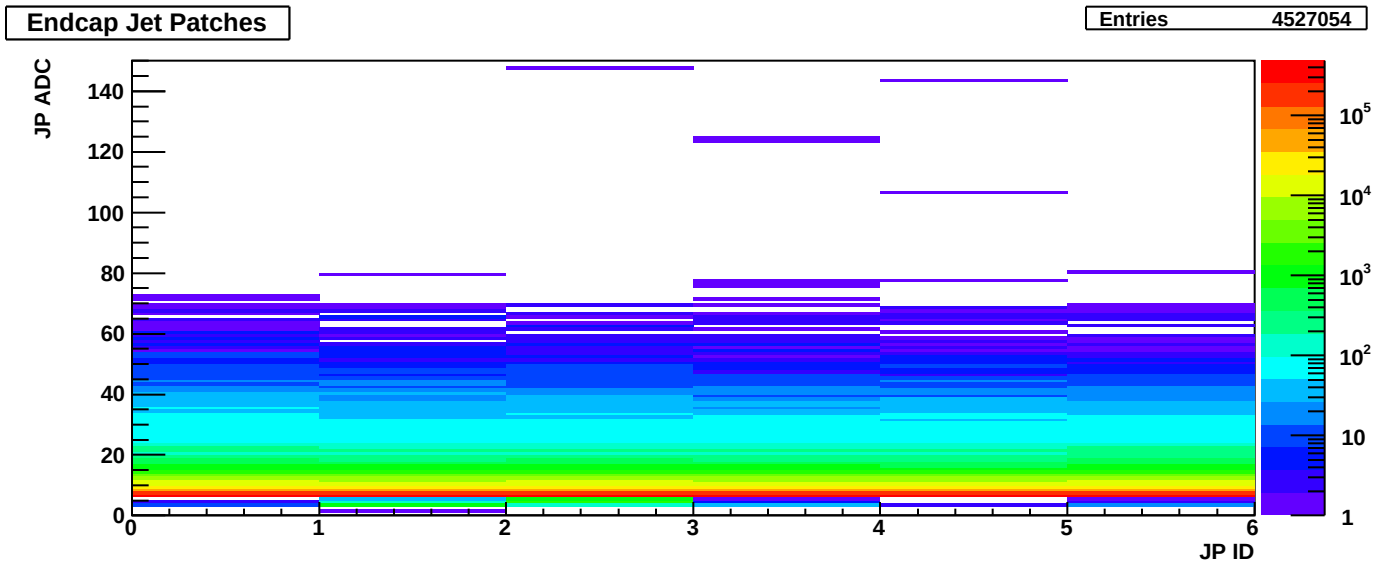

Barrel EMC L0 Input - High Tower
Entries 2.263527e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

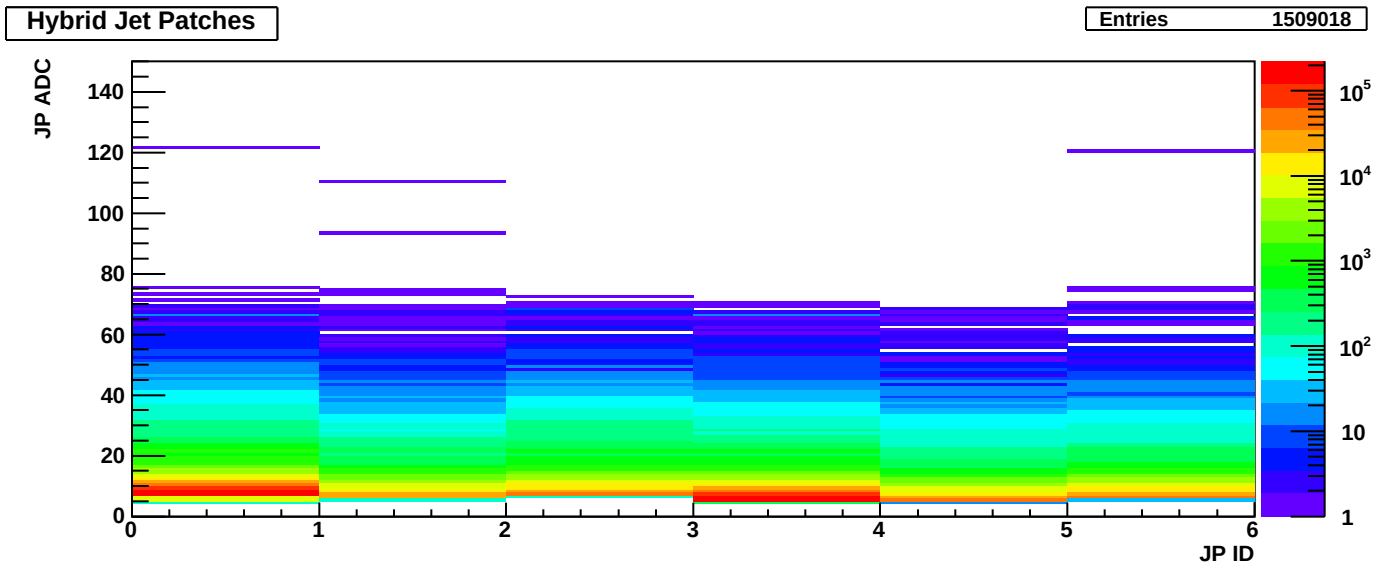

Barrel EMC L0 Input - Patch Sum
Entries 2.263527e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

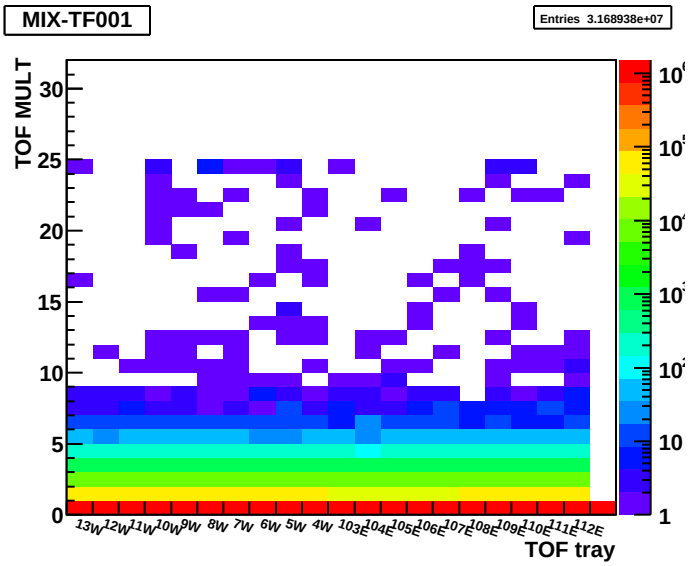

Endcap EMC L0 Input - High Tower
Entries 6.790581e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

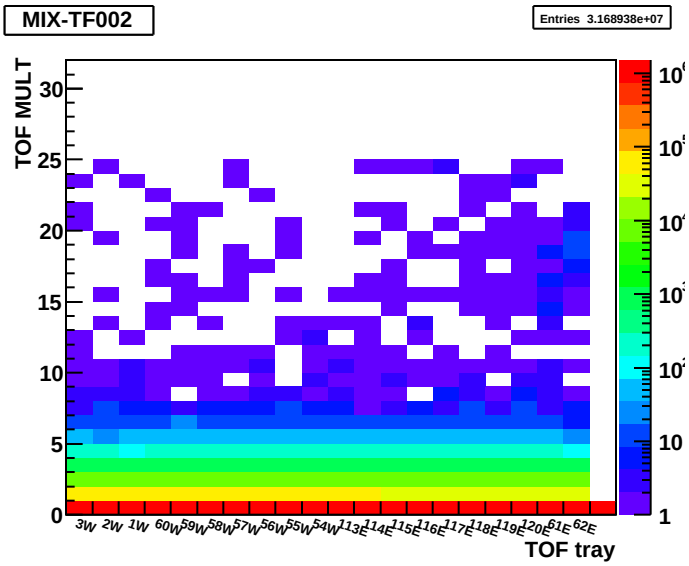

Endcap EMC L0 Input - Patch Sum
Entries 6.790581e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

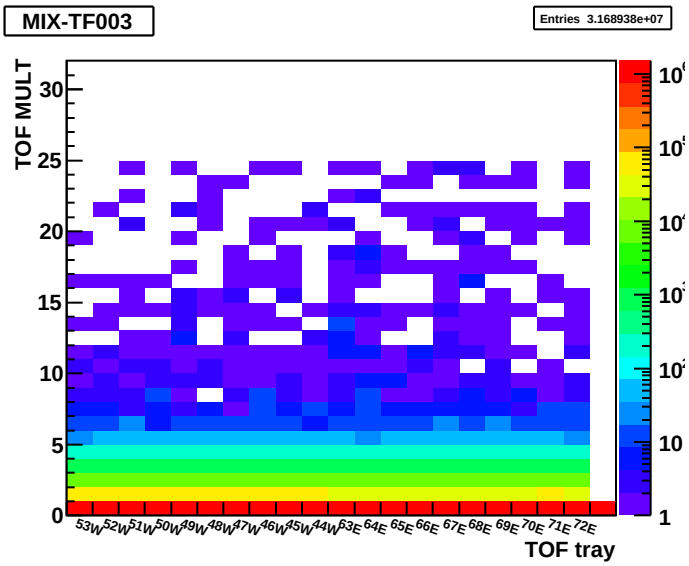

Barrel Jet Patches
Entries 1.358116e+07
JP ADC
JP ID

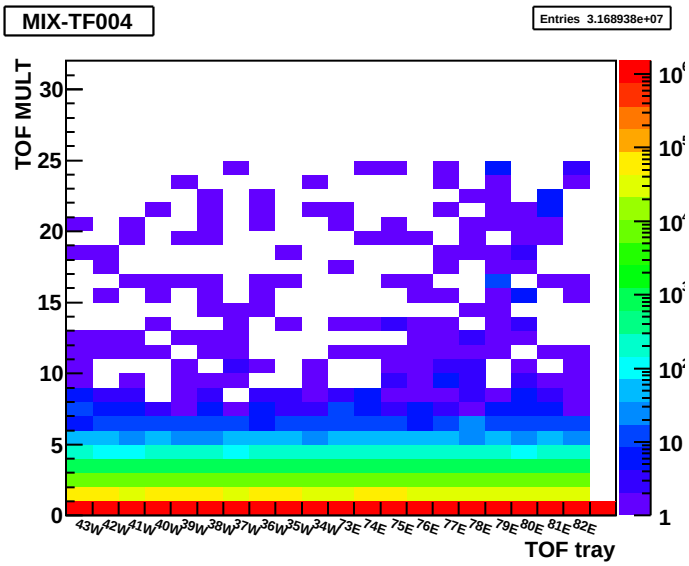

Endcap Jet Patches
Entries 4527054
JP ADC
JP ID

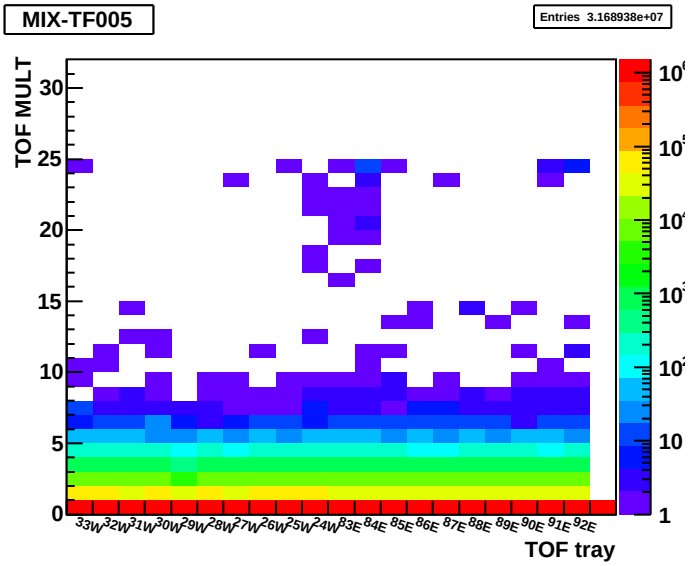

Hybrid Jet Patches
Entries 1509018
JP ADC
JP ID

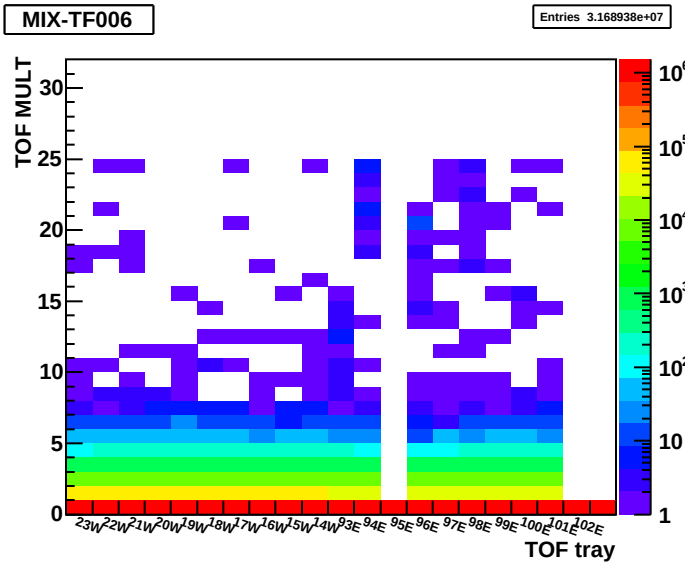

MIX-TF001
Entries 3.168938e+07
TOF MULT
TOF tray

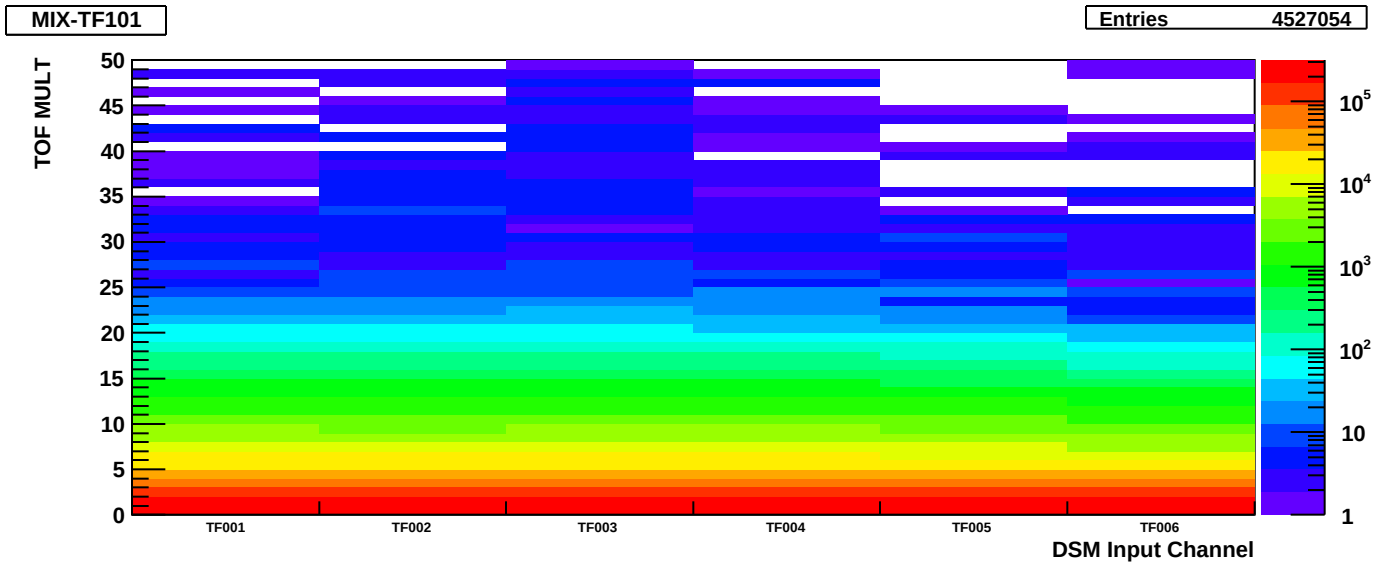

MIX-TF002
Entries 3.168938e+07
TOF MULT
TOF tray

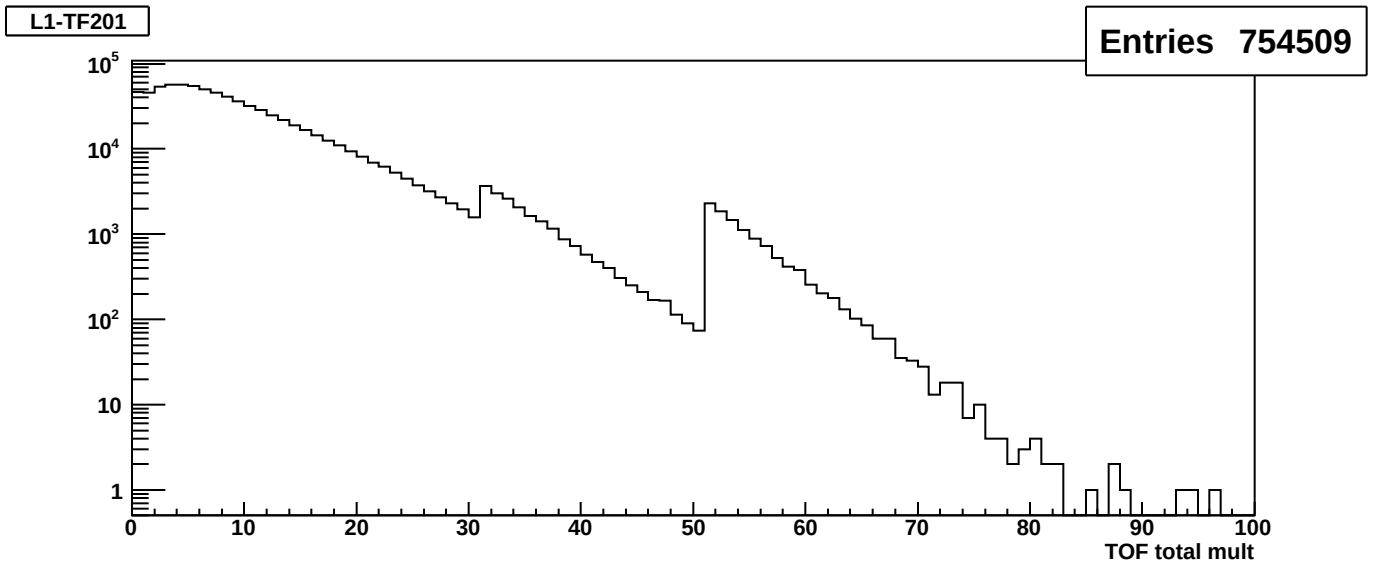

MIX-TF003
Entries 3.168938e+07
TOF MULT
TOF tray

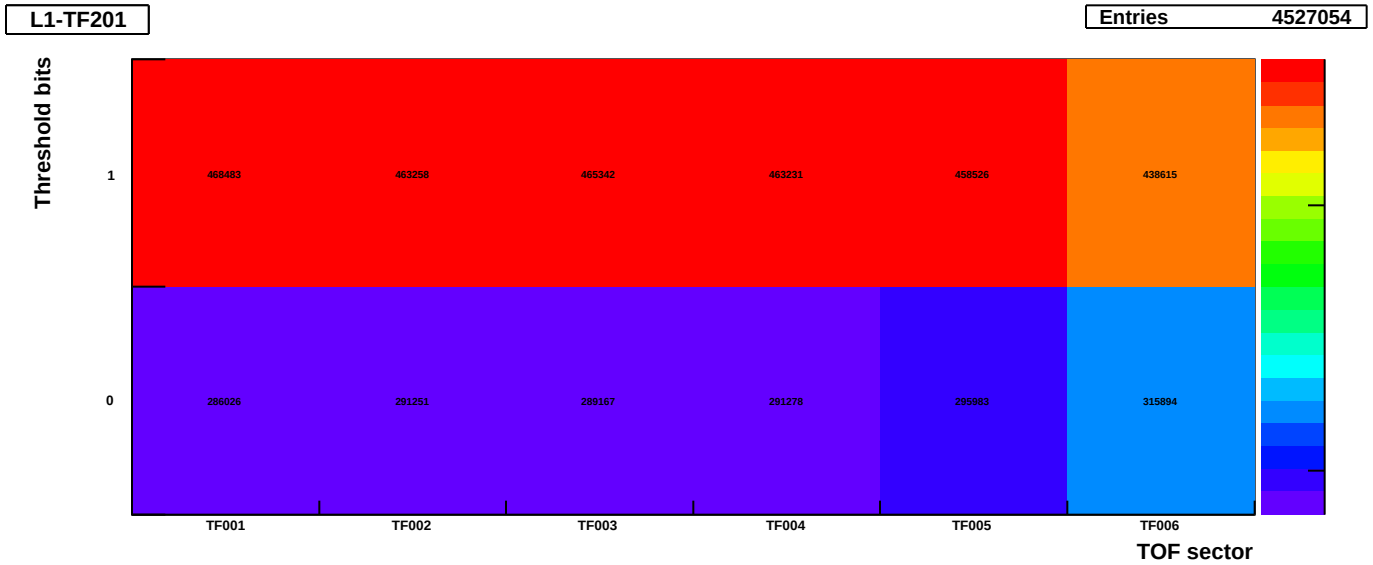

MIX-TF004
Entries 3.168938e+07
TOF MULT
TOF tray

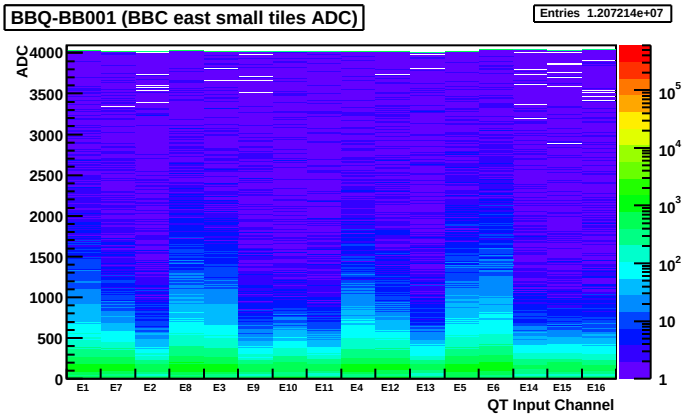

MIX-TF005
Entries 3.168938e+07
TOF MULT
TOF tray

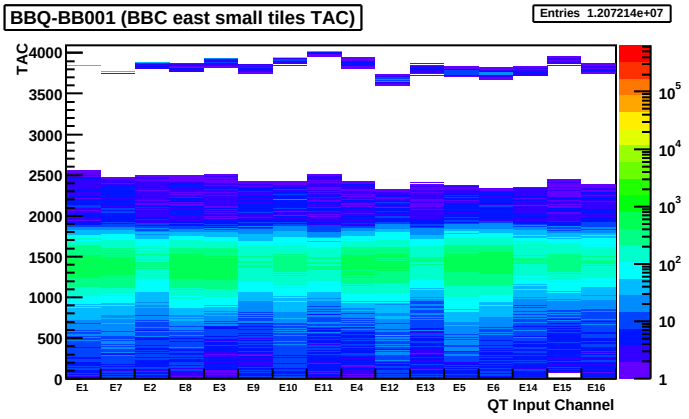

MIX-TF006
Entries 3.168938e+07
TOF MULT
TOF tray

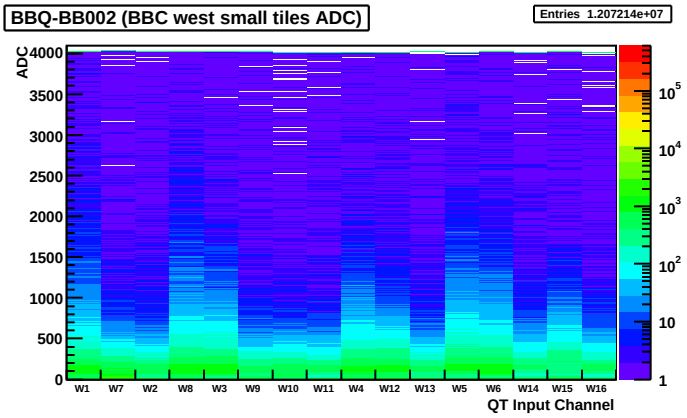

MIX-TF101
Entries 4527054
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

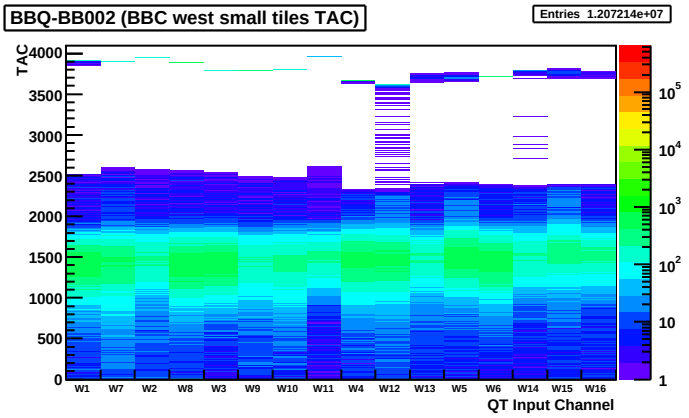

L1-TF201
Entries 754509
TOF total mult

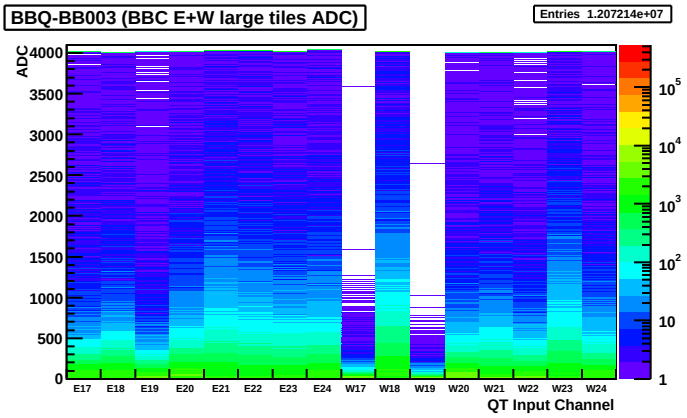

L1-TF201
Entries 4527054
Threshold bits
468483
463258
465342
463231
458526
438615
286026
291251
289167
291278
295983
315894
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

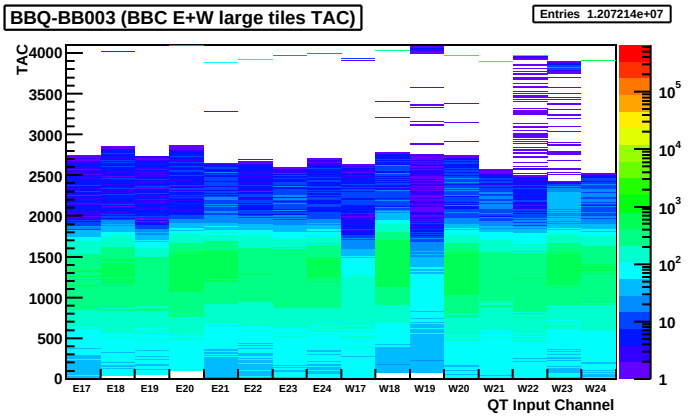

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.207214e+07
ADC
QT Input Channel

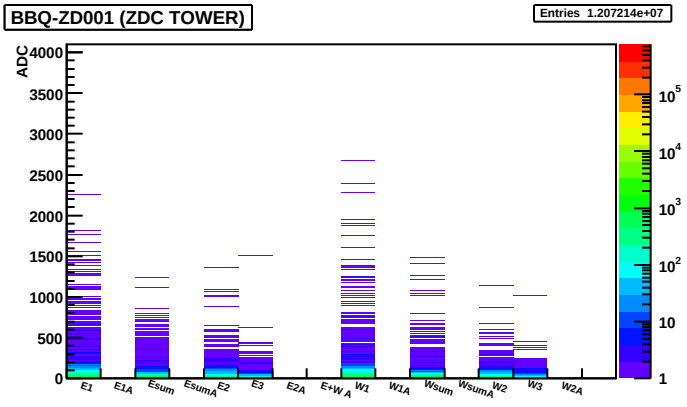

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.207214e+07
TAC
QT Input Channel

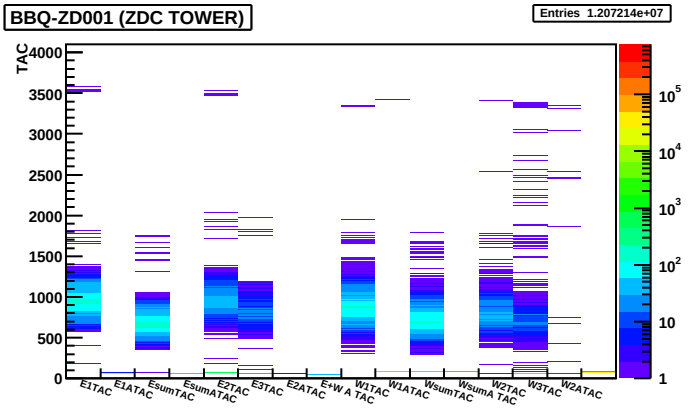

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.207214e+07
ADC
QT Input Channel

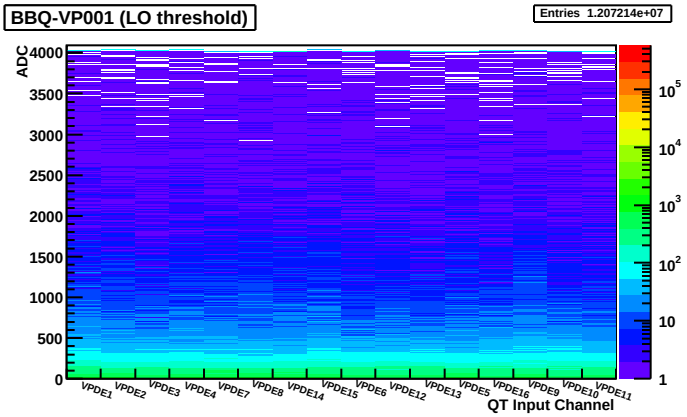

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.207214e+07
TAC
QT Input Channel

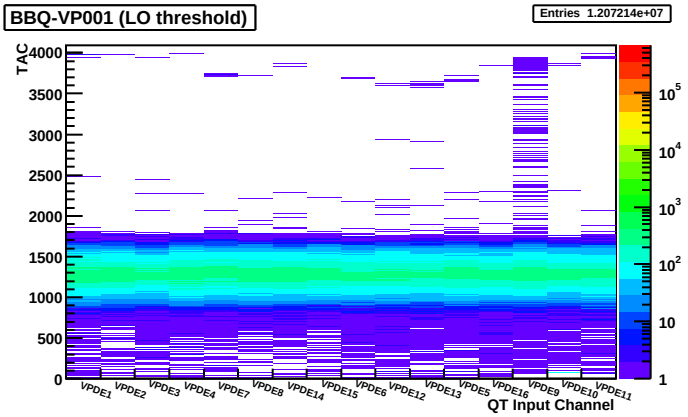

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.207214e+07
ADC
QT Input Channel

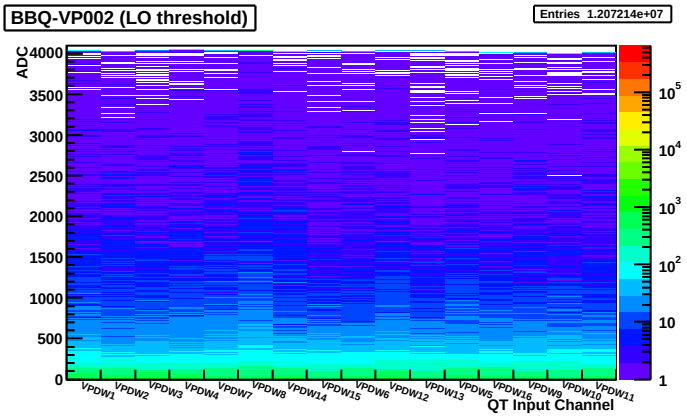

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.207214e+07
TAC
QT Input Channel

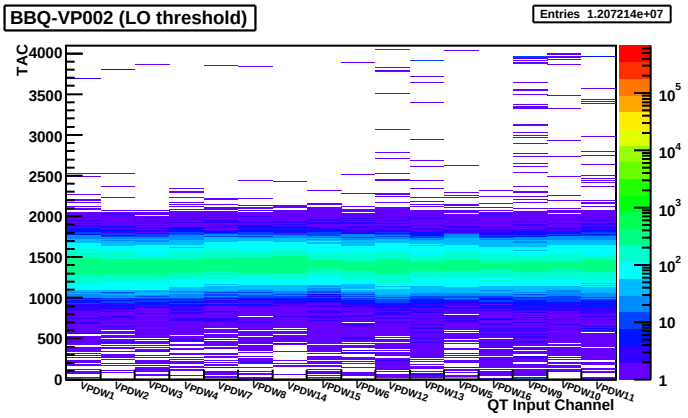

BBQ-ZD001 (ZDC TOWER)
Entries 1.207214e+07
ADC

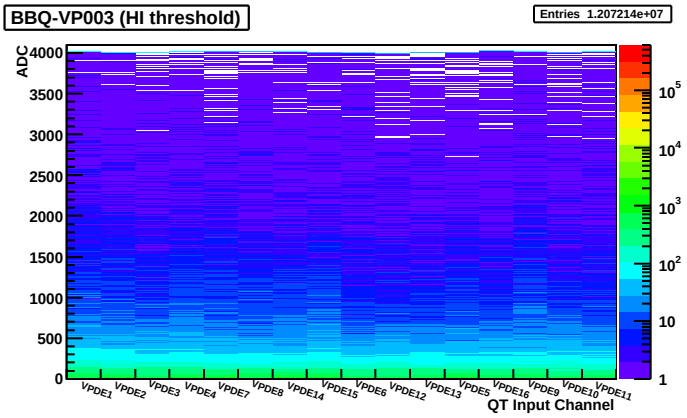

BBQ-ZD001 (ZDC TOWER)
Entries 1.207214e+07
TAC

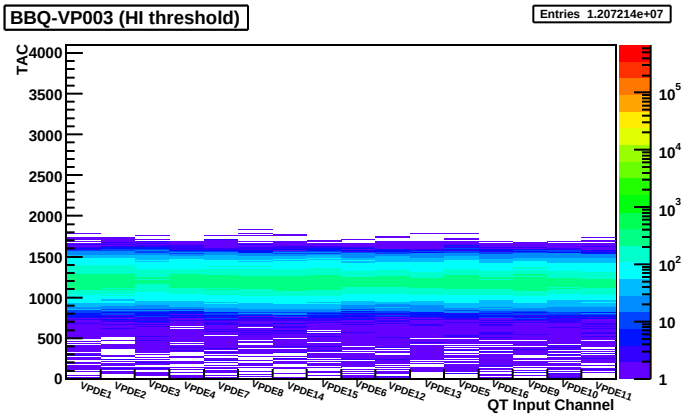

BBQ-VP001 (LO threshold)
Entries 1.207214e+07
ADC
QT Input Channel

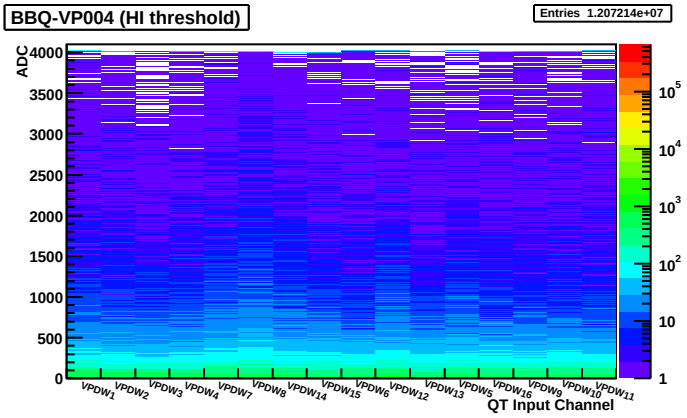

BBQ-VP001 (LO threshold)
Entries 1.207214e+07
TAC
QT Input Channel

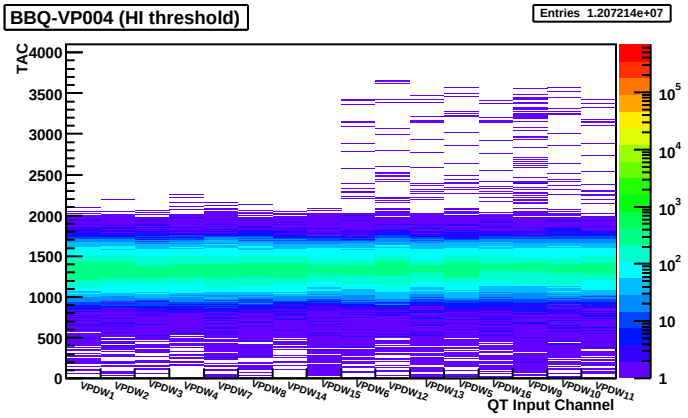

BBQ-VP002 (LO threshold)
Entries 1.207214e+07
ADC
QT Input Channel

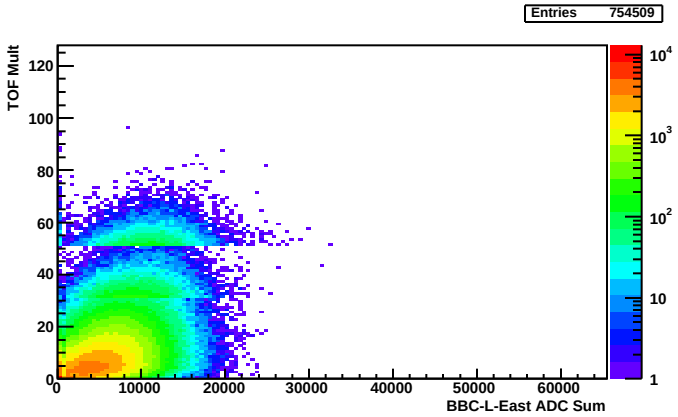

BBQ-VP002 (LO threshold)
Entries 1.207214e+07
TAC
QT Input Channel

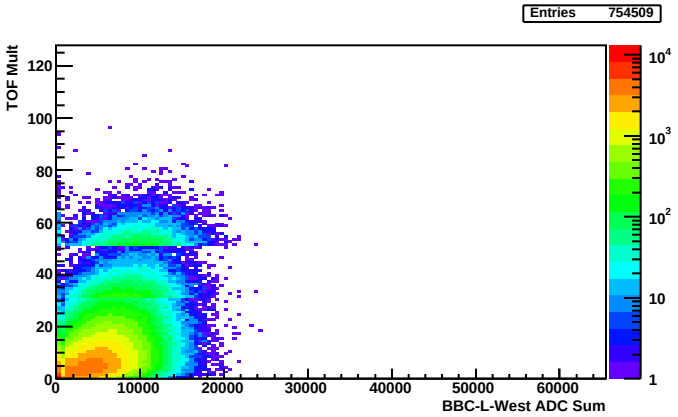

BBQ-VP003 (HI threshold)
Entries 1.207214e+07
ADC
QT Input Channel

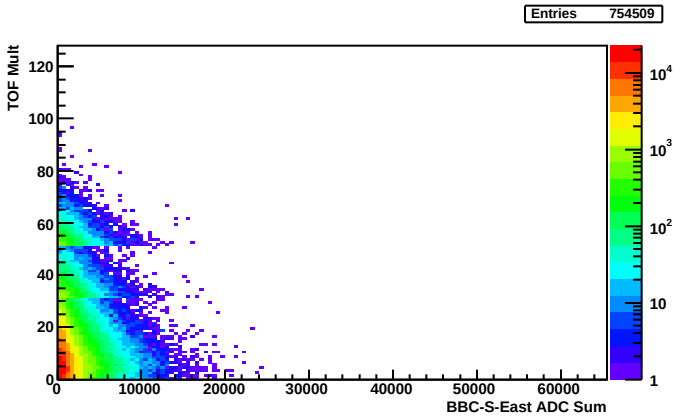

BBQ-VP003 (HI threshold)
Entries 1.207214e+07
TAC
QT Input Channel

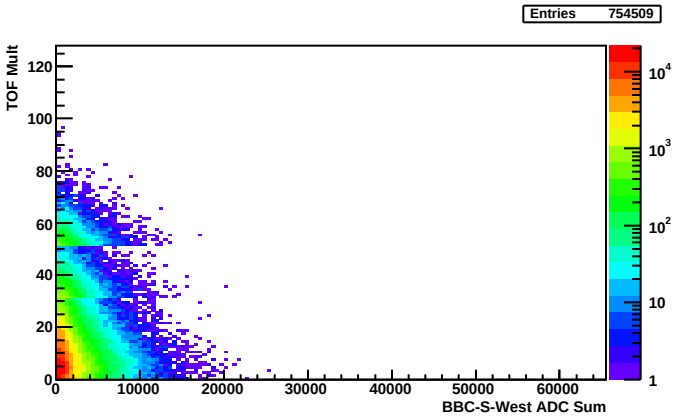

BBQ-VP004 (HI threshold)
Entries 1.207214e+07
ADC
QT Input Channel

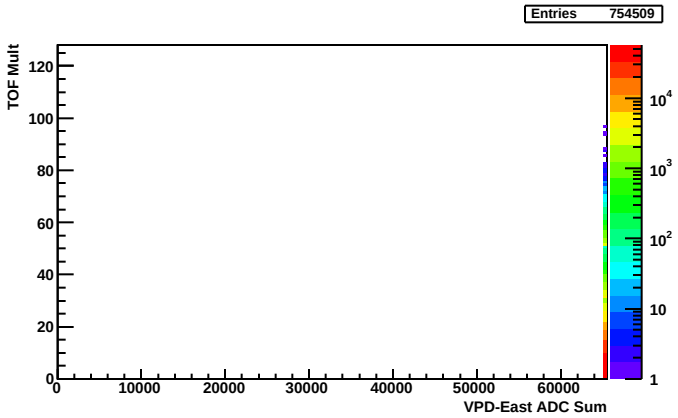

BBQ-VP004 (HI threshold)
Entries 1.207214e+07
TAC
QT Input Channel

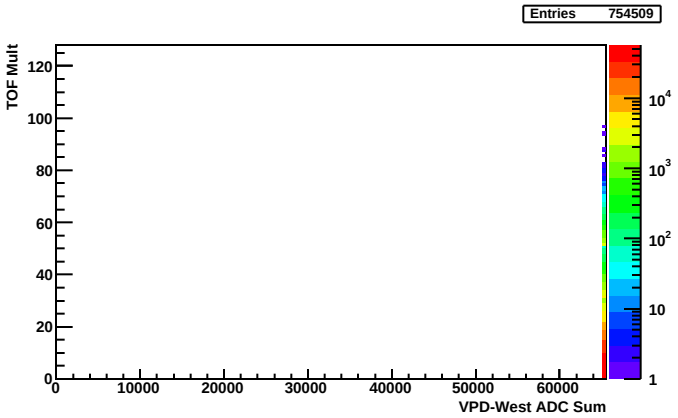

Entries 754509
TOF Mult
BBC-L-East ADC Sum

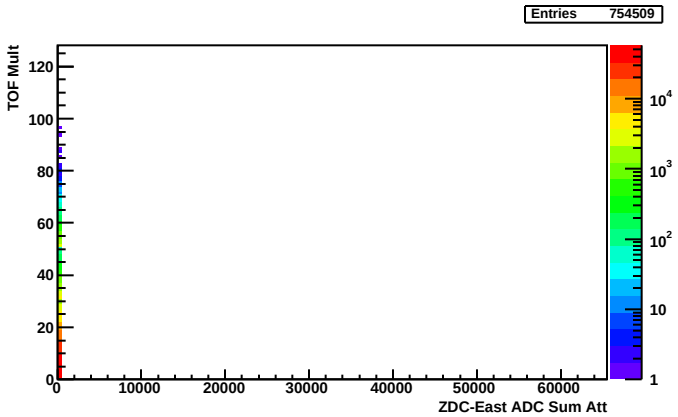

Entries 754509
TOF Mult
BBC-L-West ADC Sum

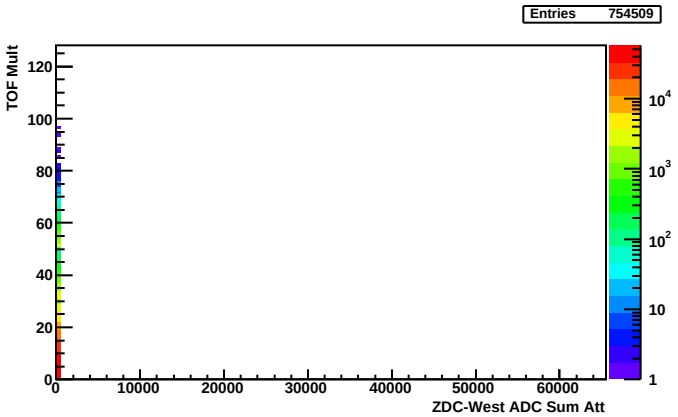

Entries 754509
TOF Mult
BBC-S-East ADC Sum

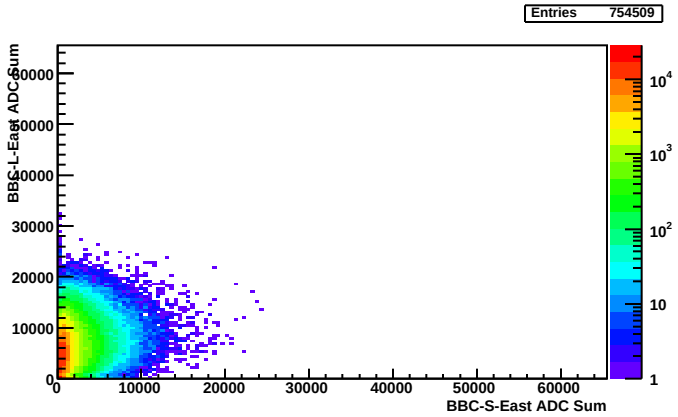

Entries 754509
TOF Mult
BBC-S-West ADC Sum

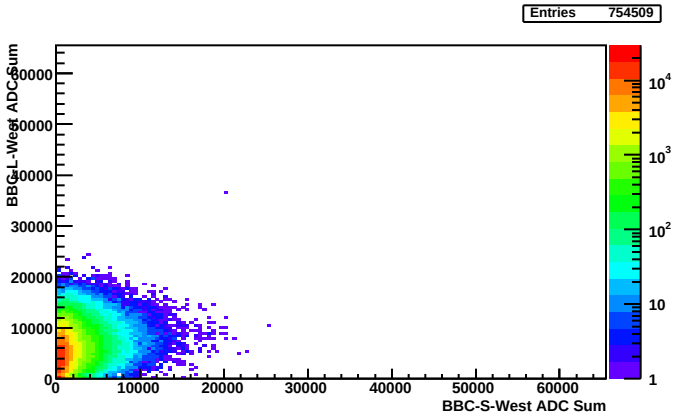

Entries 754509
TOF Mult
VPD-East ADC Sum

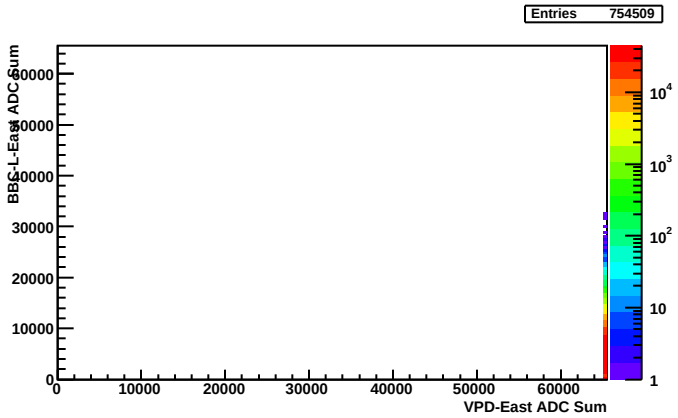

Entries 754509
TOF Mult
VPD-West ADC Sum

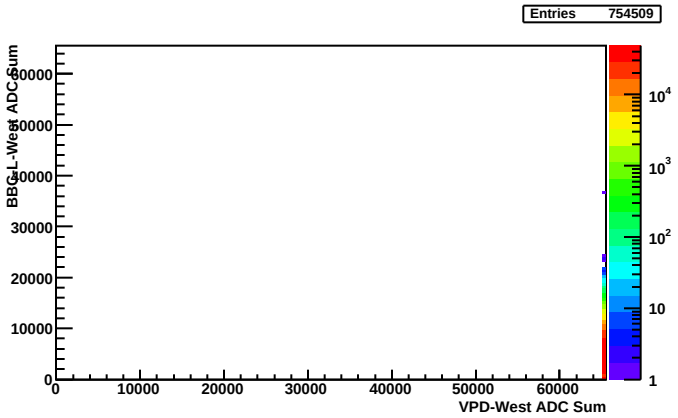

Entries 754509
TOF Mult
ZDC-East ADC Sum Att

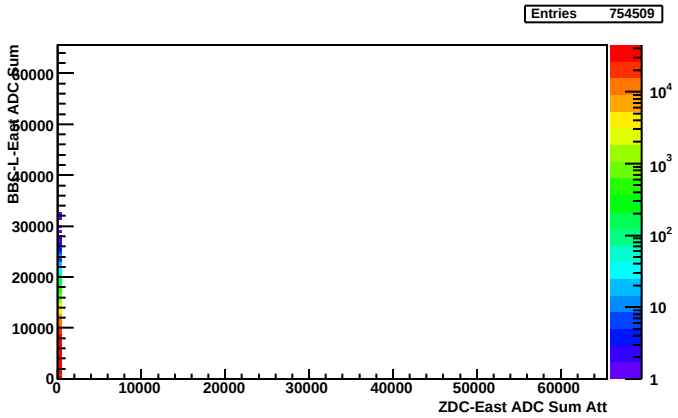

Entries 754509
TOF Mult
ZDC-West ADC Sum Att

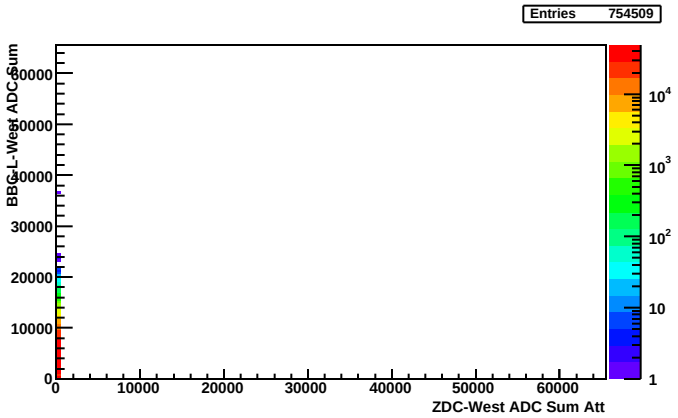

Entries 754509
BBC-L-East ADC Sum
BBC-S-East ADC Sum

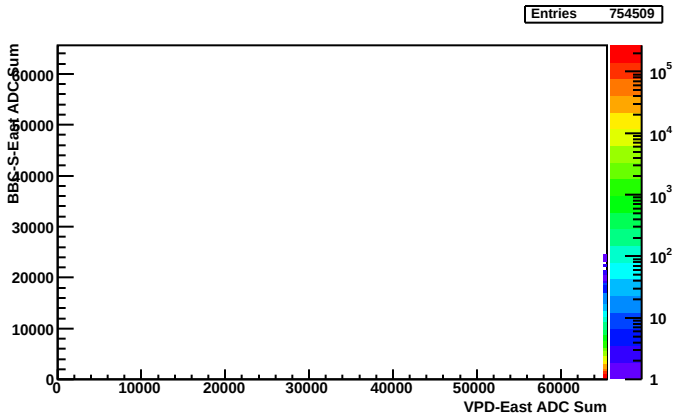

Entries 754509
BBC-L-West ADC Sum
BBC-S-West ADC Sum

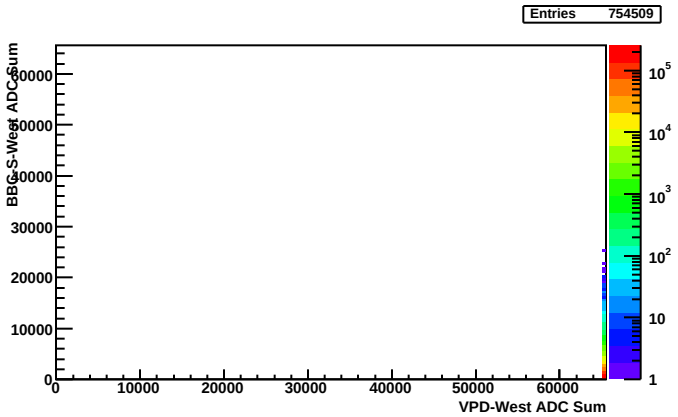

Entries 754509
BBC-L-East ADC Sum
VPD-East ADC Sum

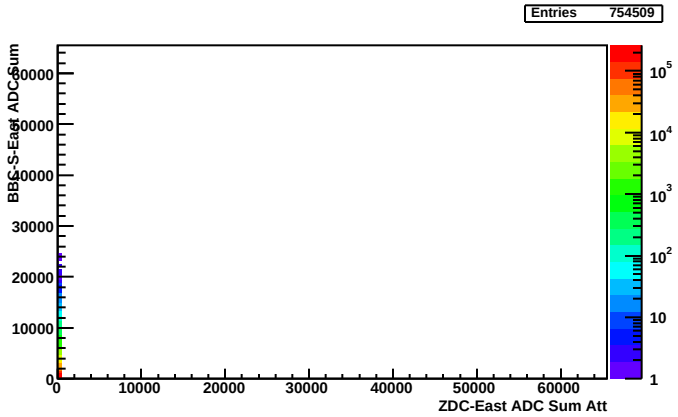

Entries 754509
BBC-L-West ADC Sum
VPD-West ADC Sum

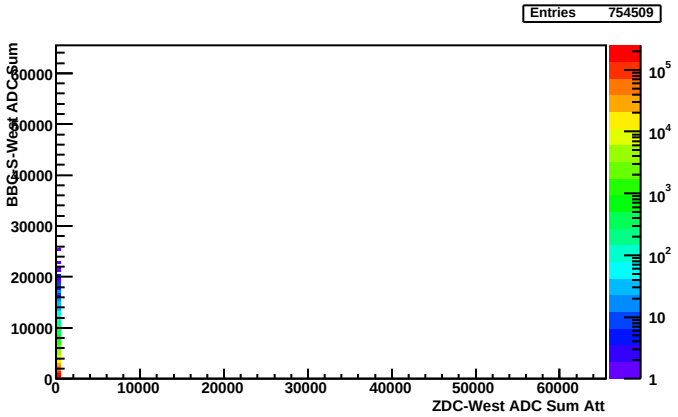

Entries 754509
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

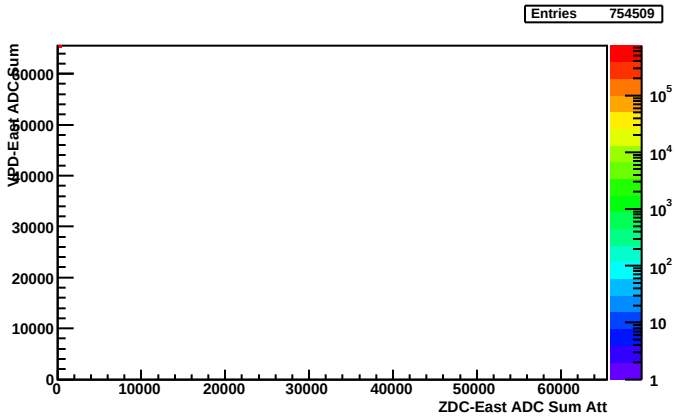

Entries 754509
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

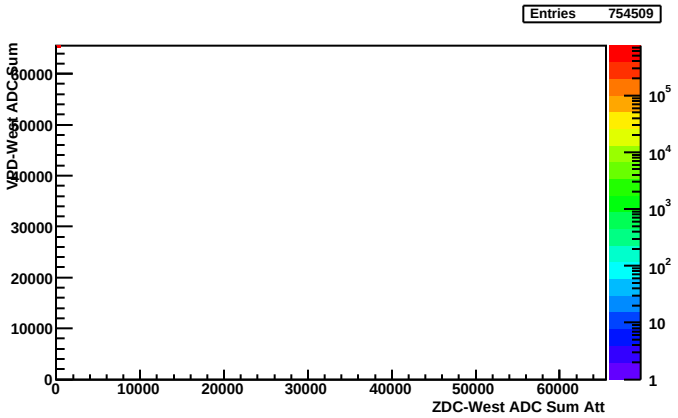

Entries 754509
BBC-S-East ADC Sum
VPD-East ADC Sum

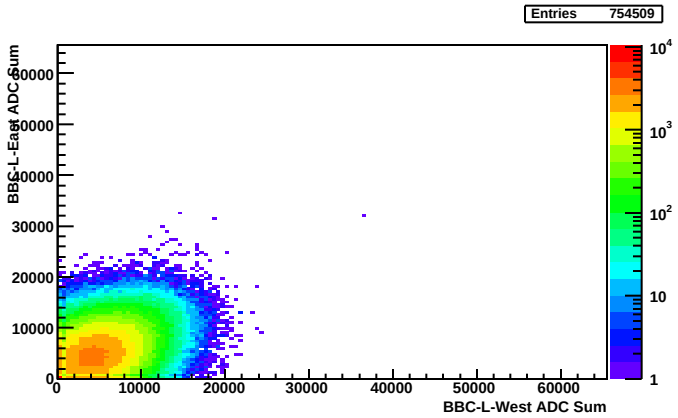

Entries 754509
BBC-S-West ADC Sum
VPD-West ADC Sum

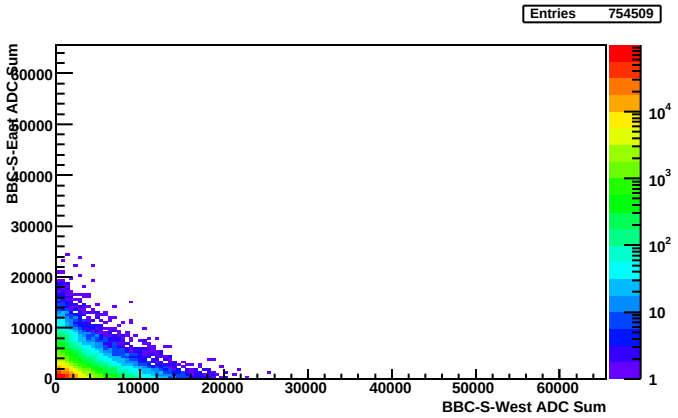

Entries 754509
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

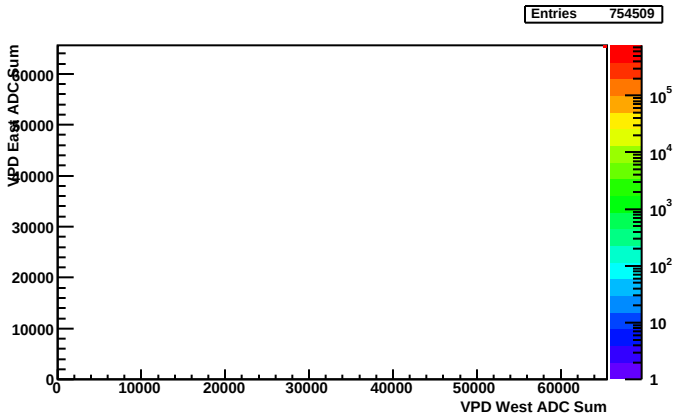

Entries 754509
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

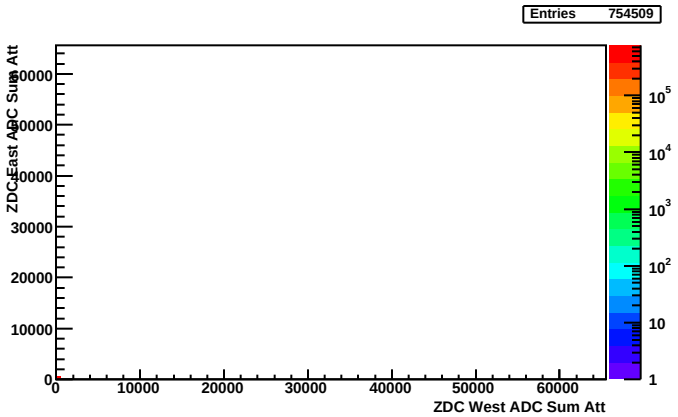

Entries 754509
VPD-East ADC Sum
ZDC-East ADC Sum Att

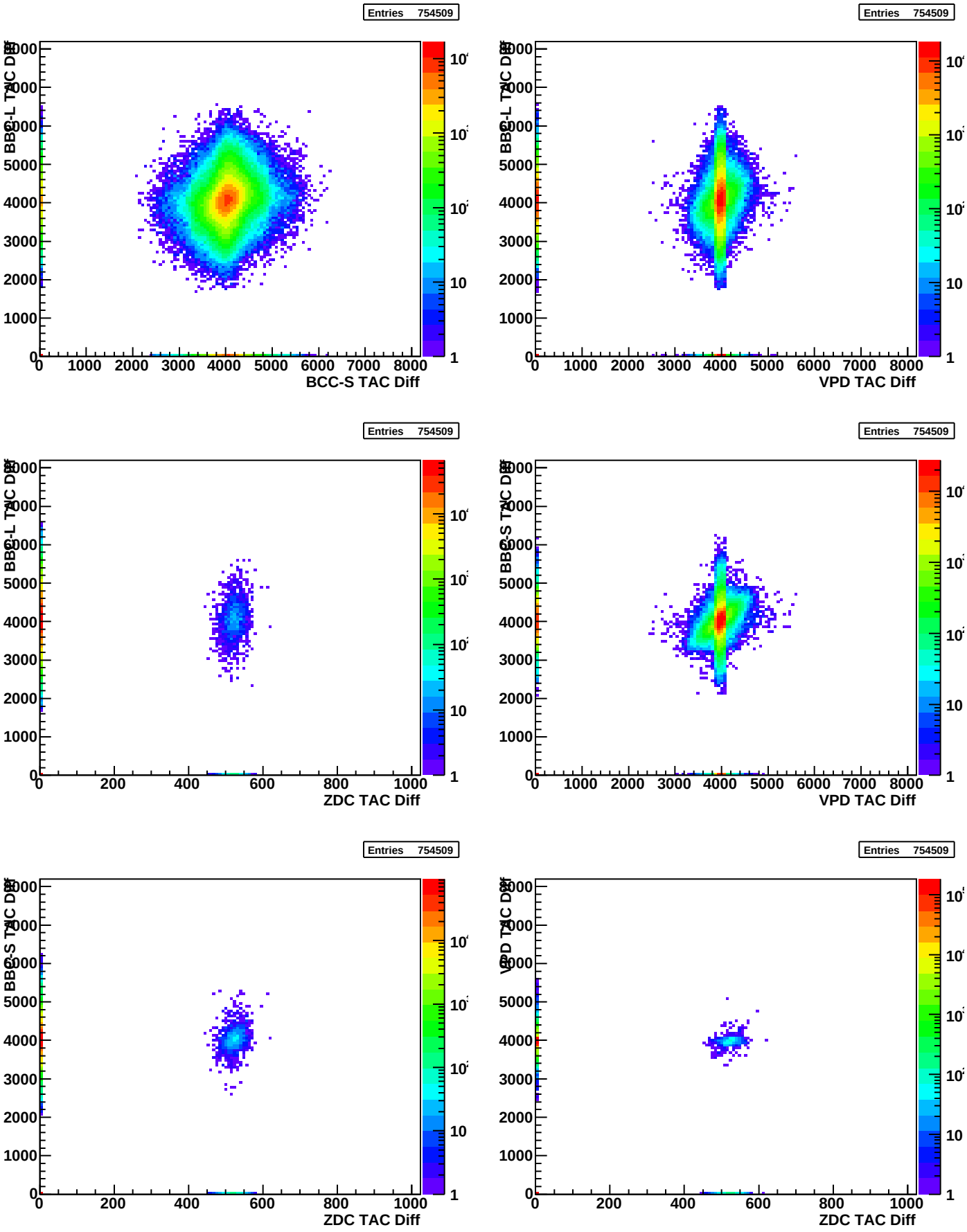

Entries 754509
VPD-West ADC Sum
ZDC-West ADC Sum Att

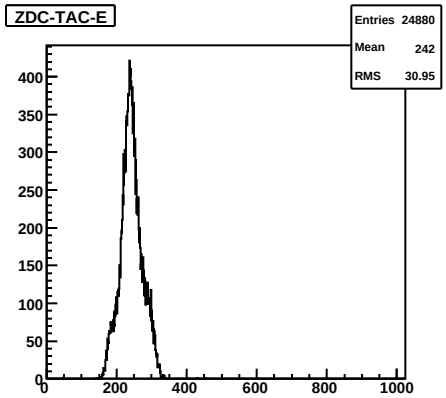

Entries 754509
BBC-L-East ADC Sum
BBC-L-West ADC Sum

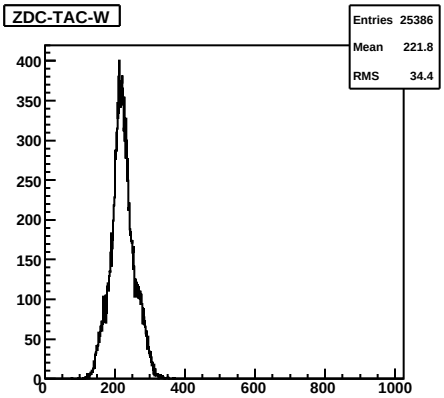

Entries 754509
BBC-S-East ADC Sum
BBC-S-West ADC Sum

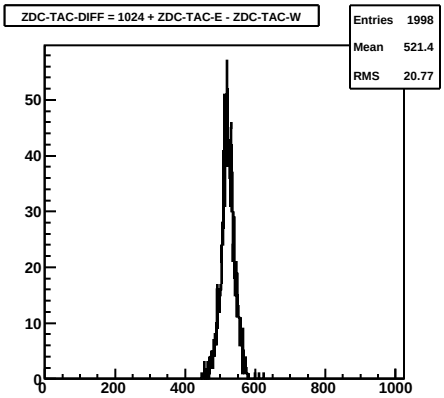

Entries 754509
VPD East ADC Sum
VPD West ADC Sum

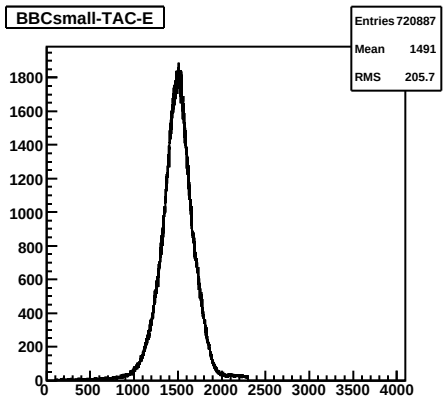

Entries 754509
ZDC East ADC Sum Att
ZDC West ADC Sum Att

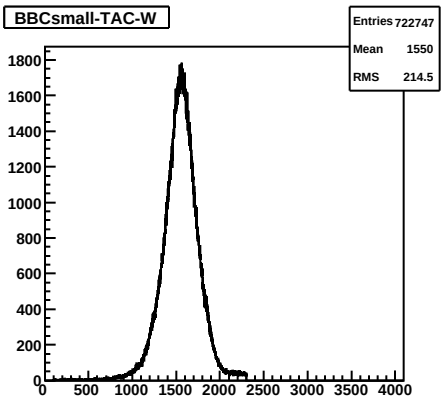

Entries 754509
BBC-L TAC Diff
BCC-S TAC Diff
Entries 754509
BBC-L TAC Diff
VPD TAC Diff
Entries 754509
BBC-L TAC Diff
ZDC TAC Diff
Entries 754509
BBC-S TAC Diff
VPD TAC Diff
Entries 754509
BBC-S TAC Diff
ZDC TAC Diff
Entries 754509
VPD TAC Diff
ZDC TAC Diff

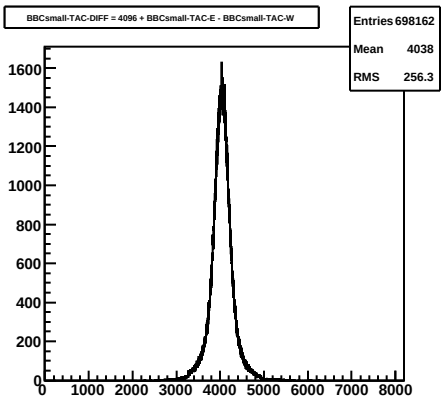

ZDC-TAC-E
Entries 24880
Mean 242
RMS 30.95

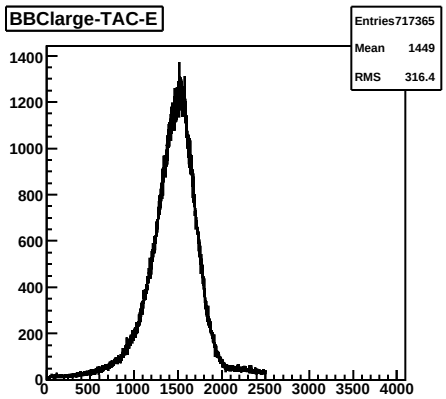

ZDC-TAC-W
Entries 25386
Mean 221.8
RMS 34.4

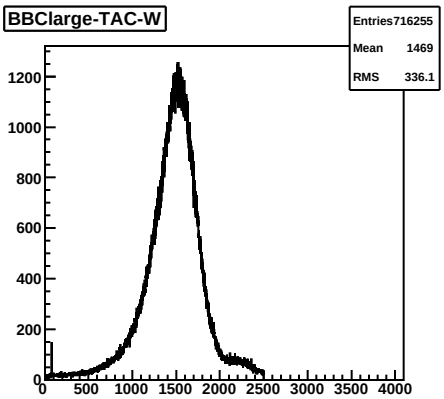

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1998
Mean 521.4
RMS 20.77

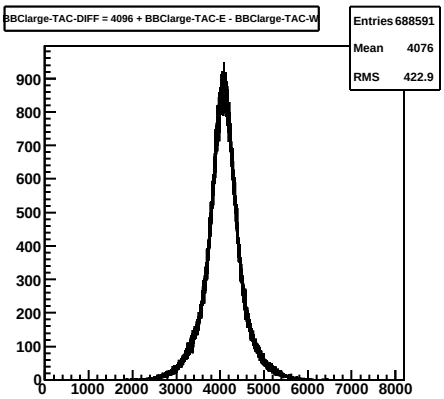

BBCsmall-TAC-E
Entries 720887
Mean 1491
RMS 205.7

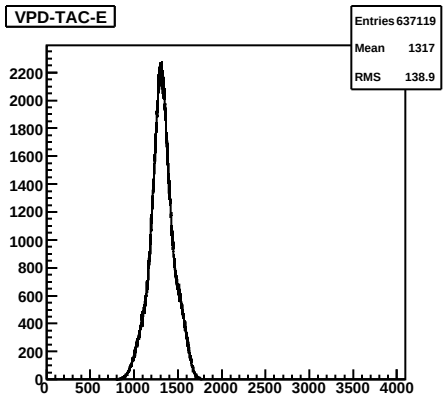

BBCsmall-TAC-W
Entries 722747
Mean 1550
RMS 214.5

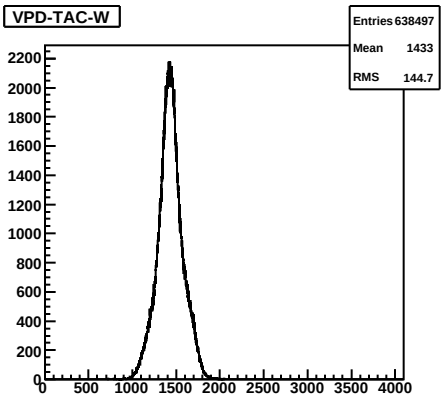

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 698162
Mean 4038
RMS 256.3

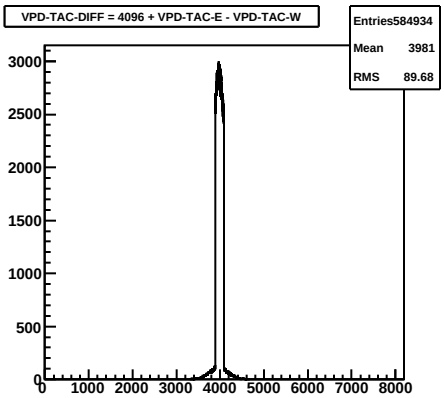

BBClarge-TAC-E
Entries 717365
Mean 1449
RMS 316.4

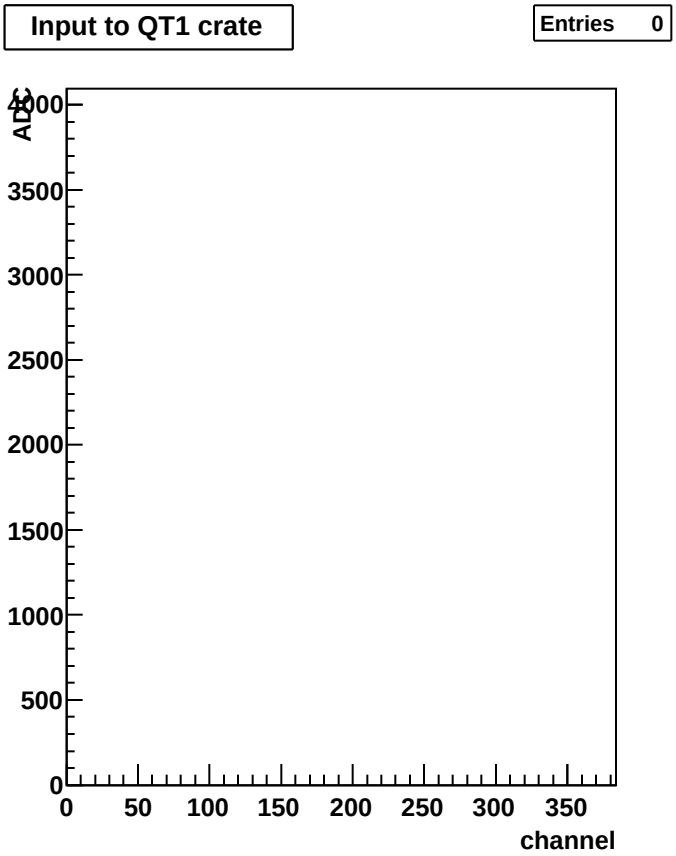

BBClarge-TAC-W
Entries 716255
Mean 1469
RMS 336.1

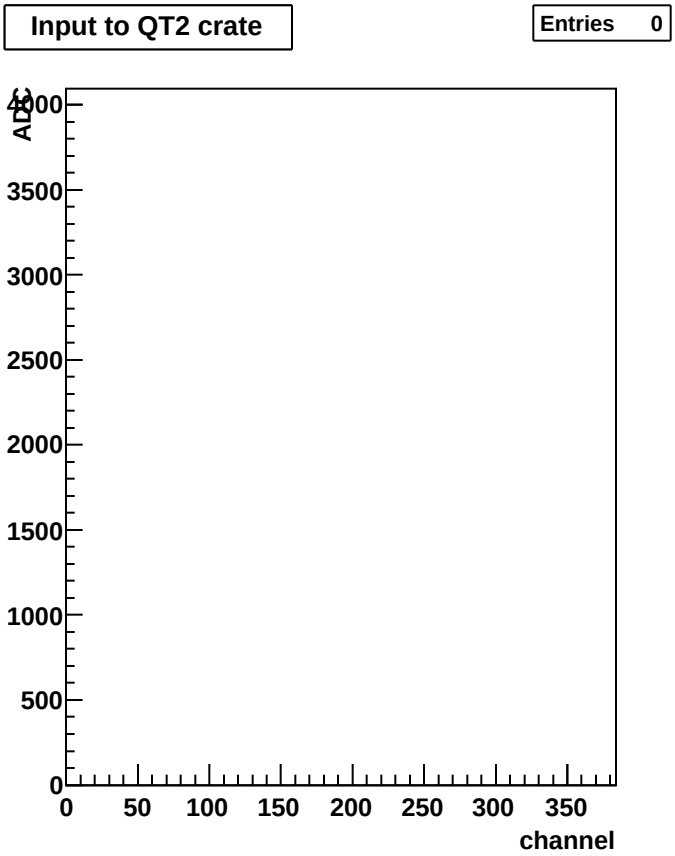

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 688591
Mean 4076
RMS 422.9

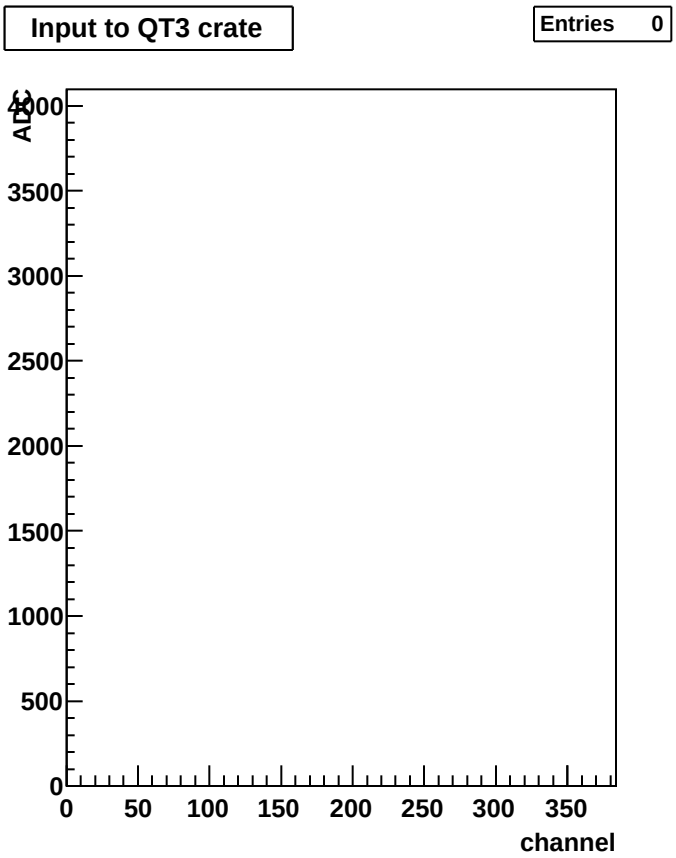

VPD-TAC-E
Entries 637119
Mean 1317
RMS 138.9

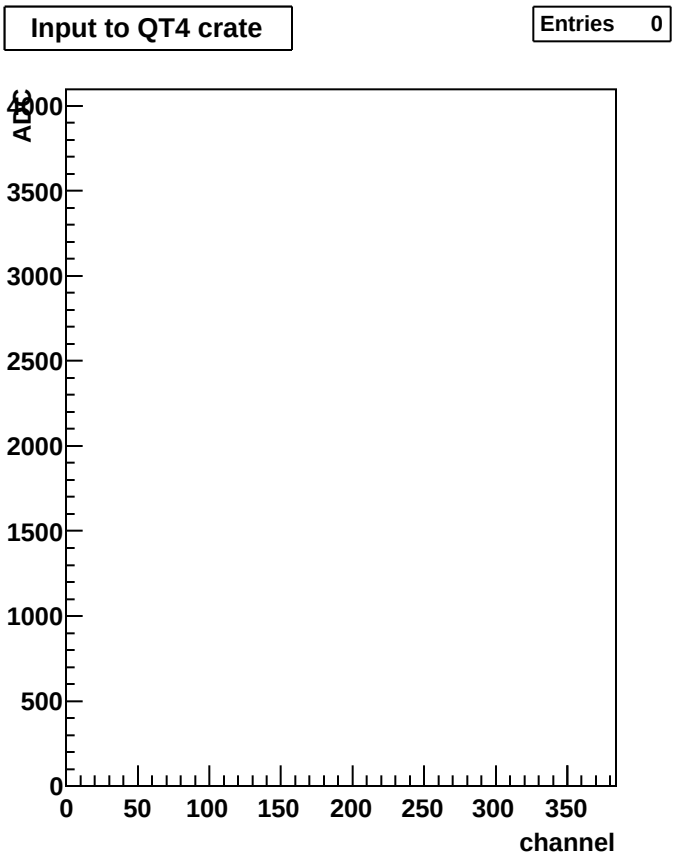

VPD-TAC-W
Entries 638497
Mean 1433
RMS 144.7

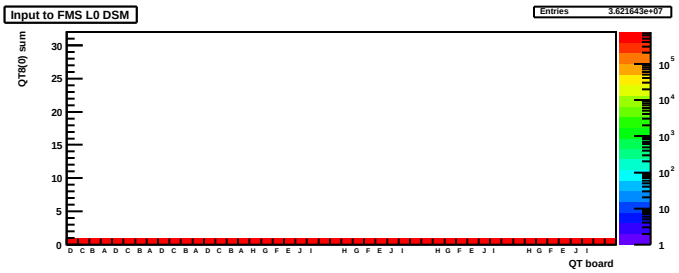

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 584934
Mean 3981
RMS 89.68

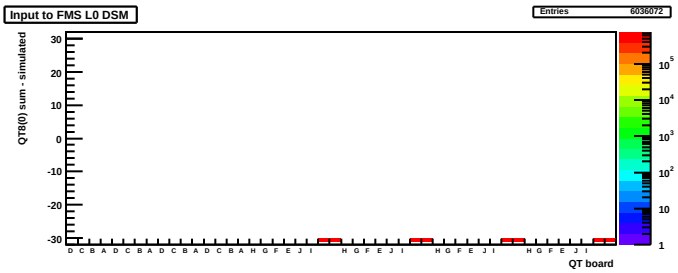

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

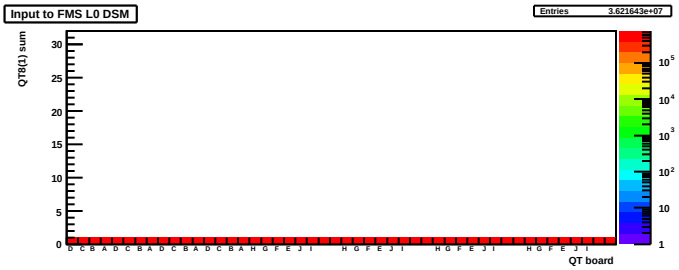

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

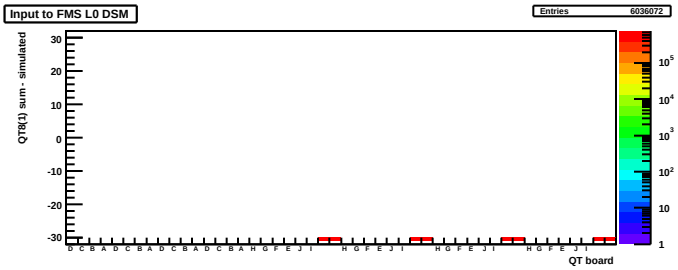

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

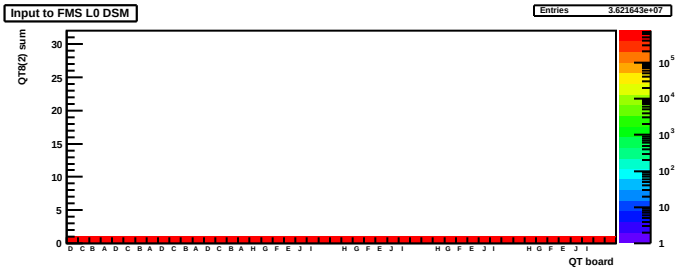

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

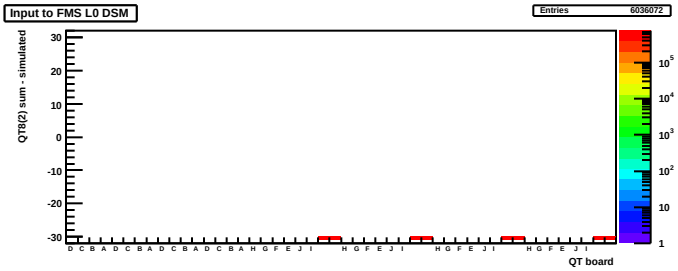

Input to FMS L0 DSM
Entries 3.621643e+07
QT8(0) sum
QT board

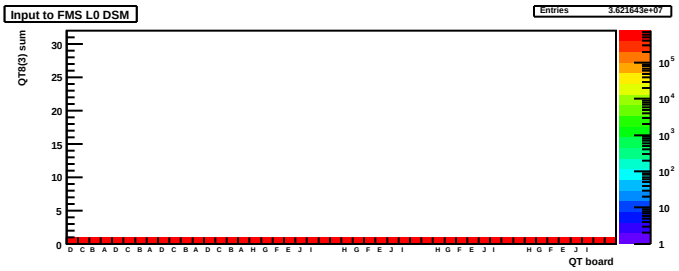

Input to FMS L0 DSM
Entries 6036072
QT8(0) sum - simulated
QT board

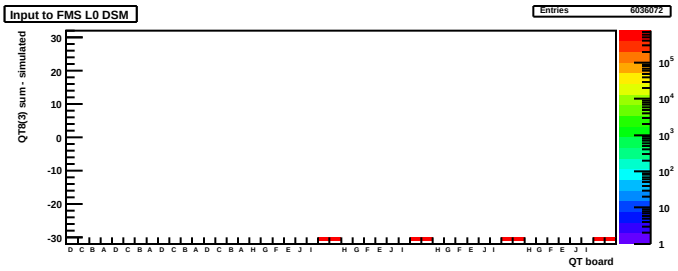

Input to FMS L0 DSM
Entries 3.621643e+07
QT8(1) sum
QT board

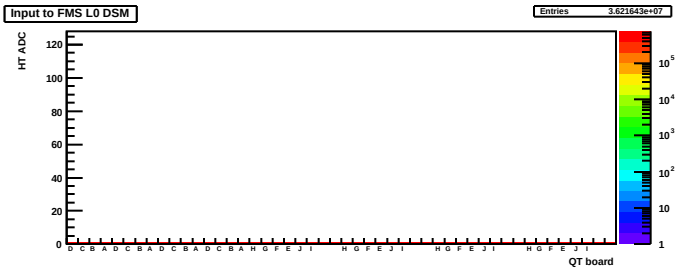

Input to FMS L0 DSM
Entries 6036072
QT8(1) sum - simulated
QT board

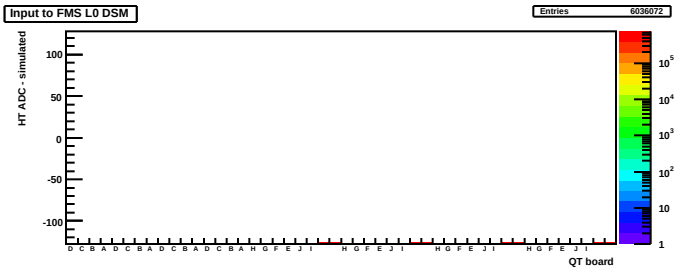

Input to FMS L0 DSM
Entries 3.621643e+07
QT8(2) sum
QT board

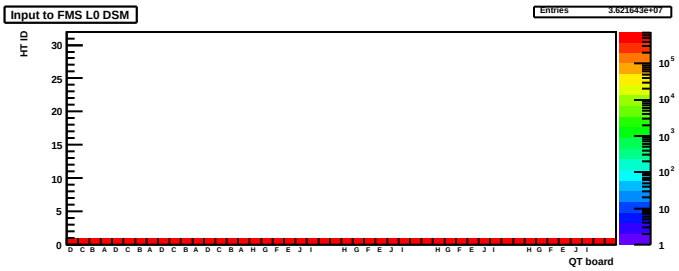

Input to FMS L0 DSM
Entries 6036072
QT8(2) sum - simulated
QT board

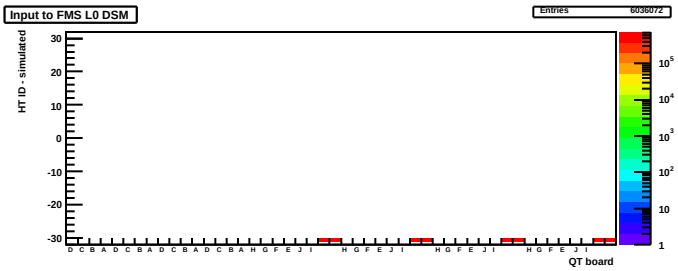

Input to FMS L0 DSM
Entries 3.621643e+07
QT8(3) sum
QT board

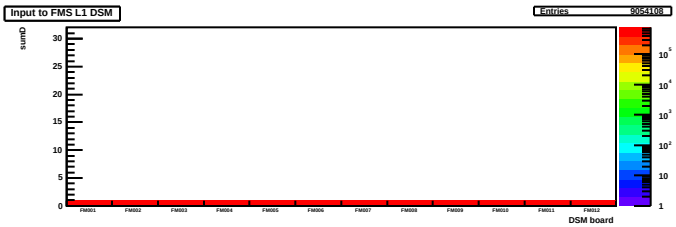

Input to FMS L0 DSM
Entries 6036072
QT8(3) sum - simulated
QT board

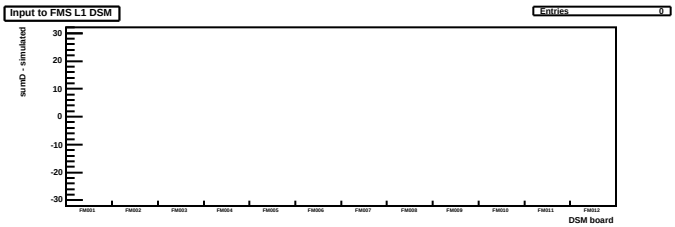

Input to FMS L0 DSM
Entries 3.621643e+07
HT ADC
QT board

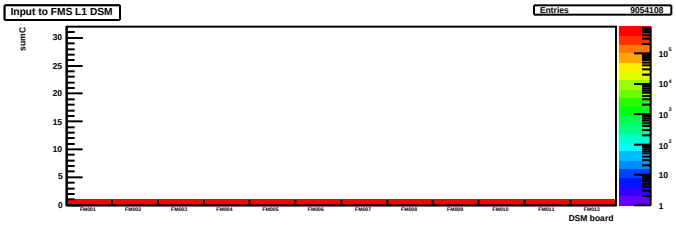

Input to FMS L0 DSM
Entries 6036072
HT ADC - simulated
QT board

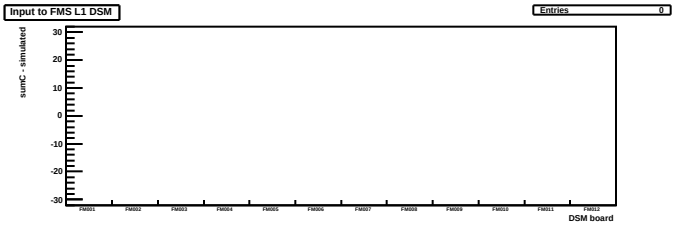

Input to FMS L0 DSM
Entries 3.621643e+07
HT ID
QT board

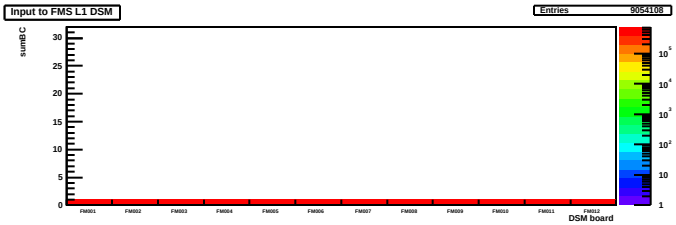

Input to FMS L0 DSM
Entries 6036072
HT ID - simulated
QT board

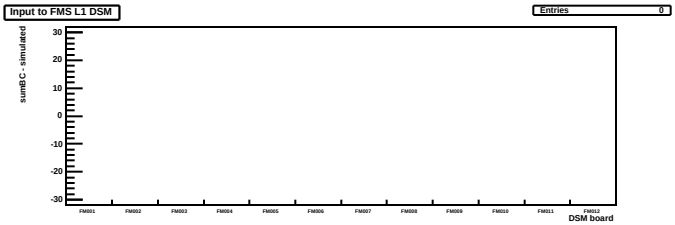

Input to FMS L1 DSM
Entries 9054108
sumD
DSM board

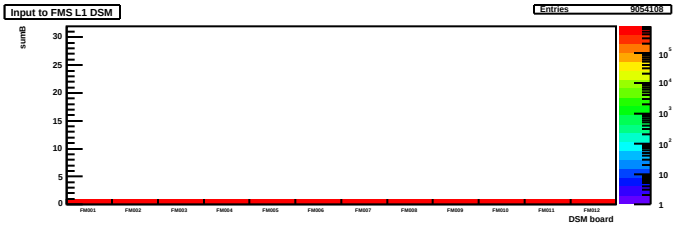

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

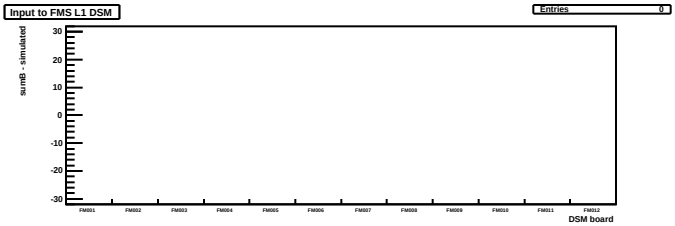

Input to FMS L1 DSM
Entries 9054108
sumC
DSM board

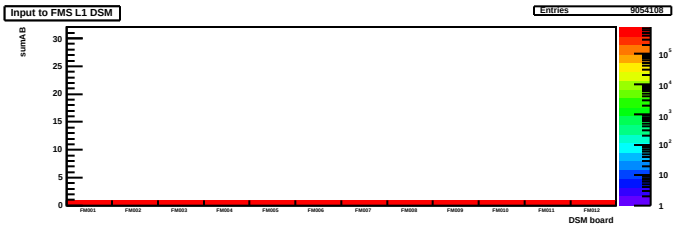

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

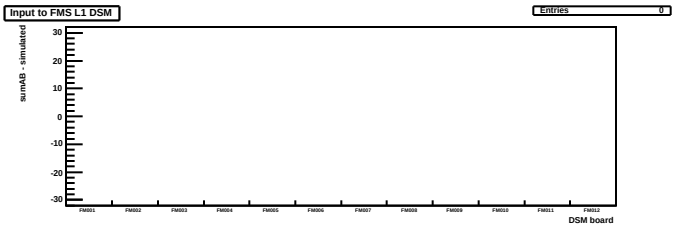

Input to FMS L1 DSM
Entries 9054108
sumBC
DSM board

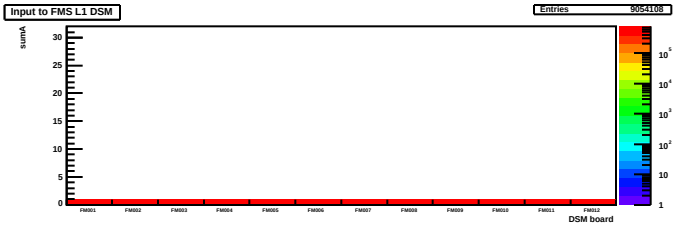

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

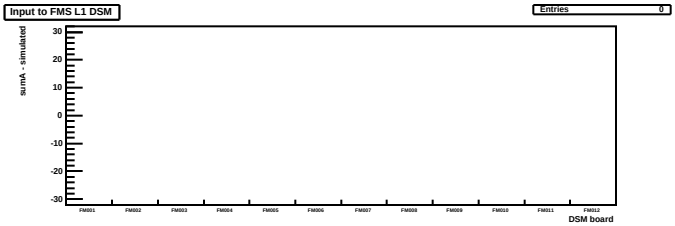

Input to FMS L1 DSM
Entries 9054108
sumB
DSM board

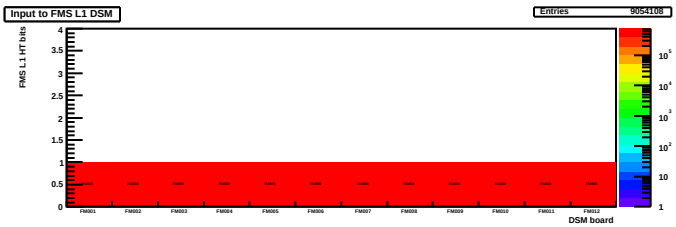

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

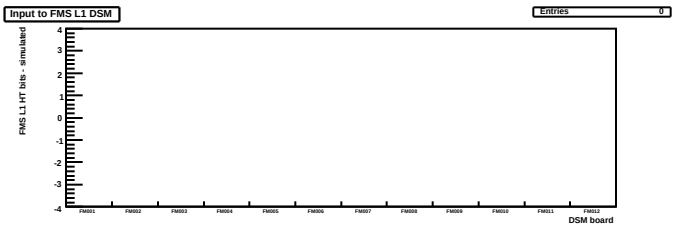

Input to FMS L1 DSM
Entries 9054108
sumAB
DSM board

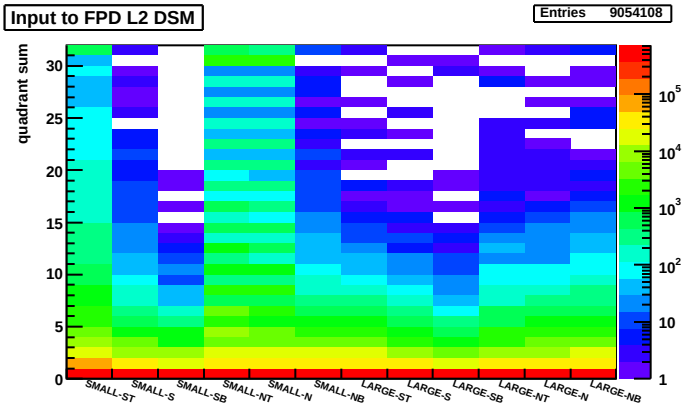

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

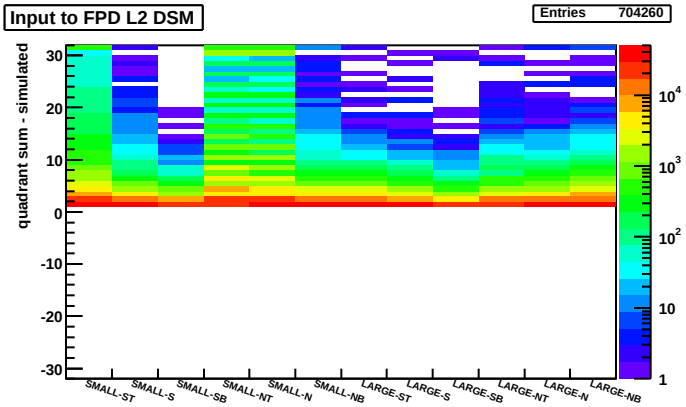

Input to FMS L1 DSM
Entries 9054108
sumA
DSM board

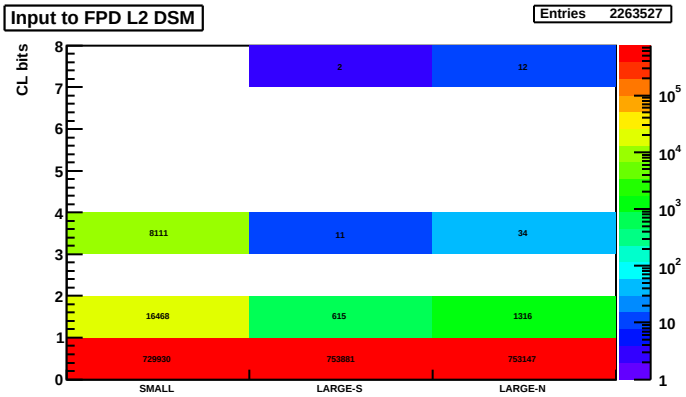

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

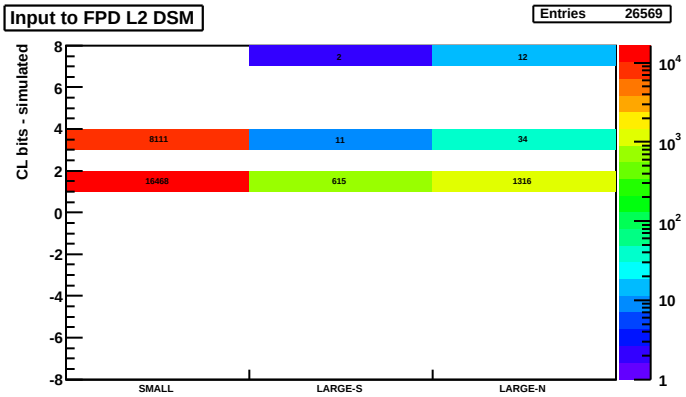

Input to FMS L1 DSM
Entries 9054108
FMS L1 HT bits
DSM board

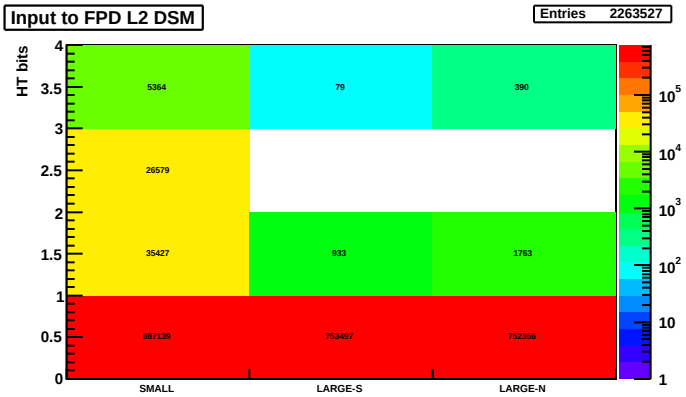

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

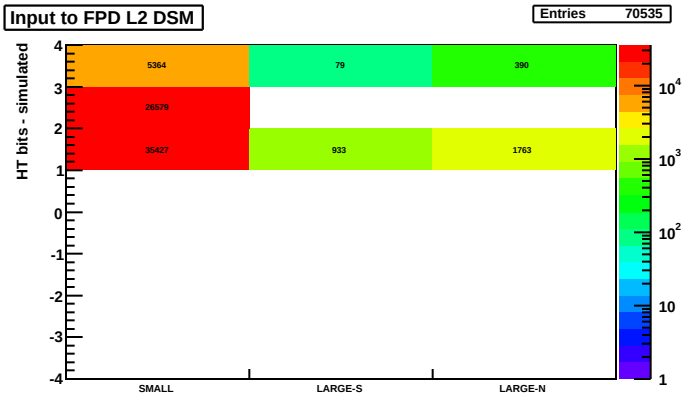

Input to FPD L2 DSM
Entries 9054108
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

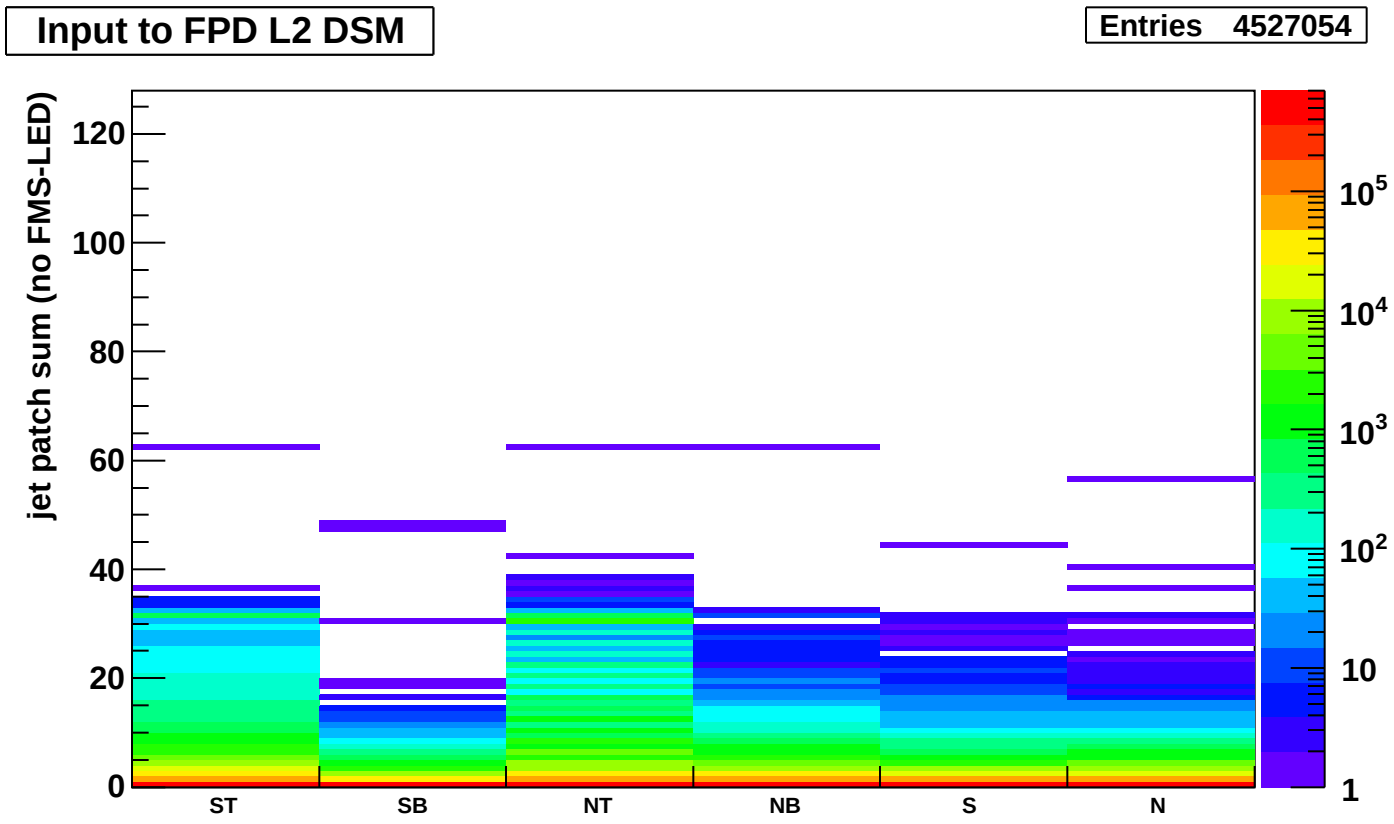

Input to FPD L2 DSM
Entries 704260
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

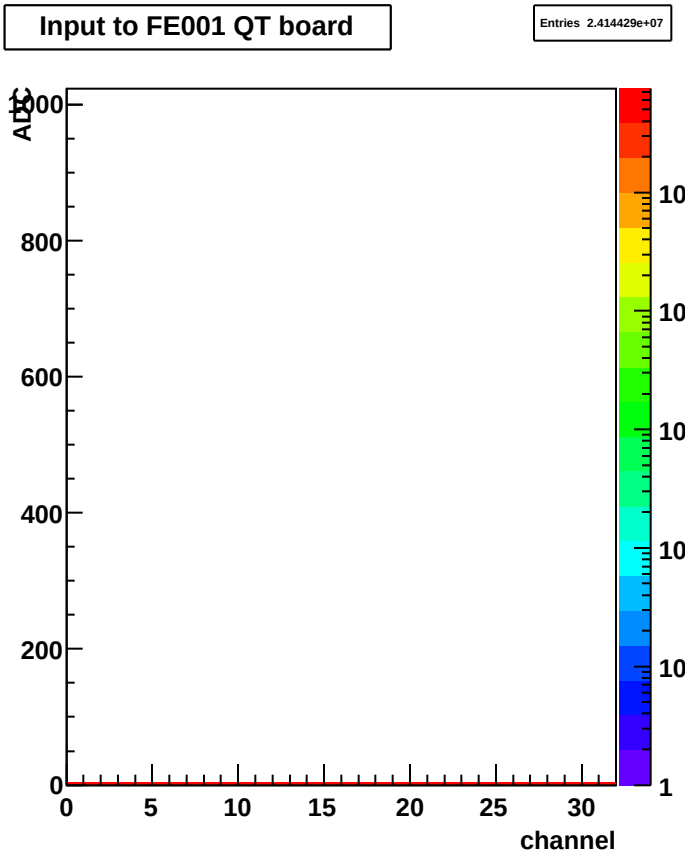

Input to FPD L2 DSM
Entries 2263527
CL bits
2
12
8111
11
34
16468
615
1316
729930
753881
753147
SMALL
LARGE-S
LARGE-N

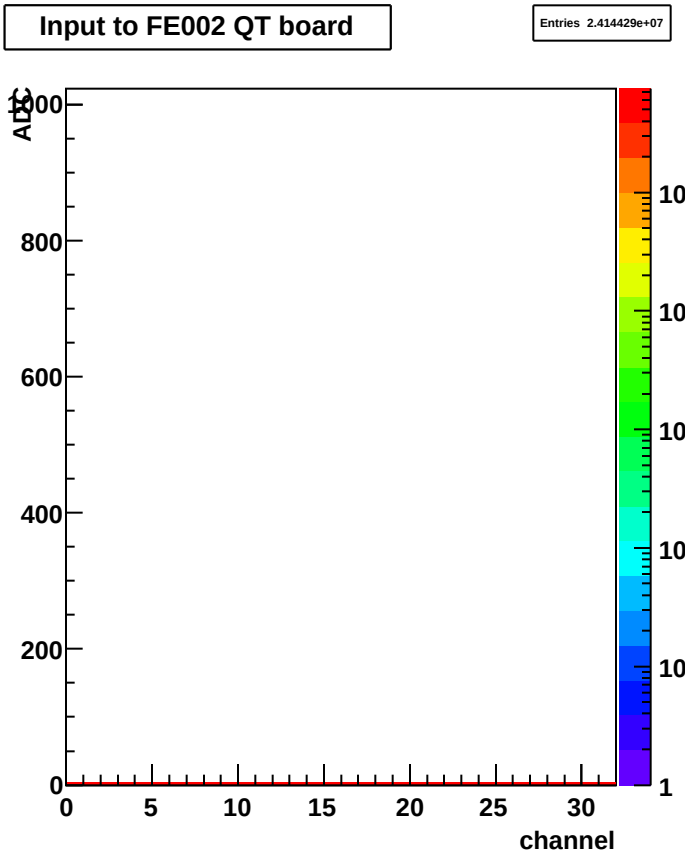

Input to FPD L2 DSM
Entries 26569
CL bits - simulated
2
12
8111
11
34
16468
615
1316
SMALL
LARGE-S
LARGE-N

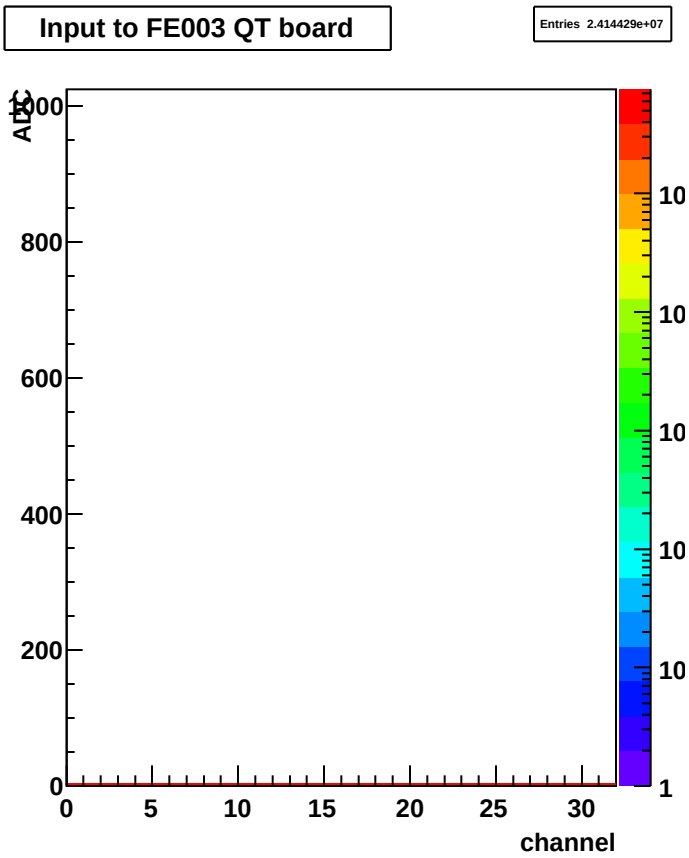

Input to FPD L2 DSM
Entries 2263527
HT bits
5364
79
390
26579
35427
933
1763
687139
753497
752356
SMALL
LARGE-S
LARGE-N

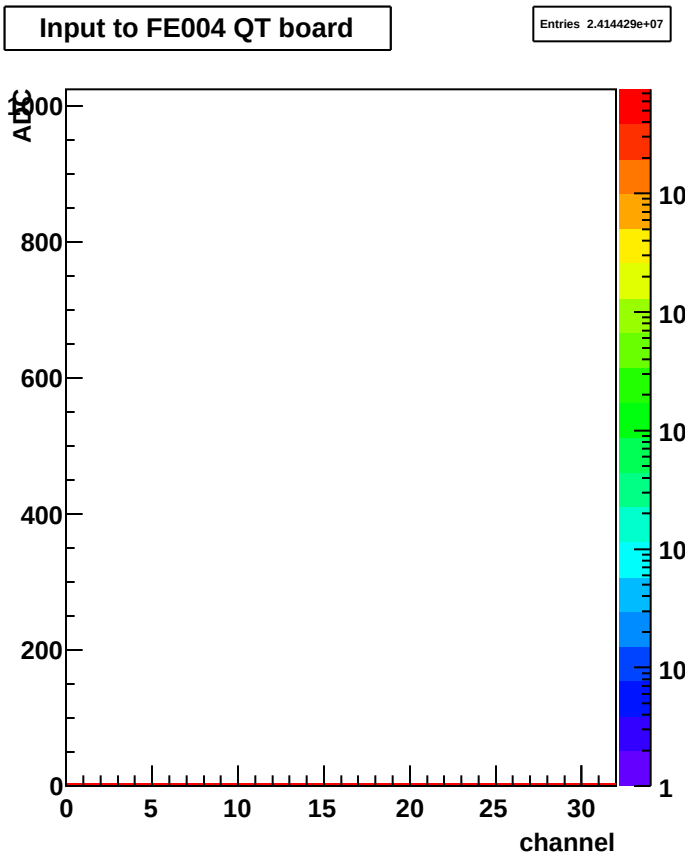

Input to FPD L2 DSM
Entries 70535
HT bits - simulated
5364
79
390
26579
35427
933
1763
SMALL
LARGE-S
LARGE-N

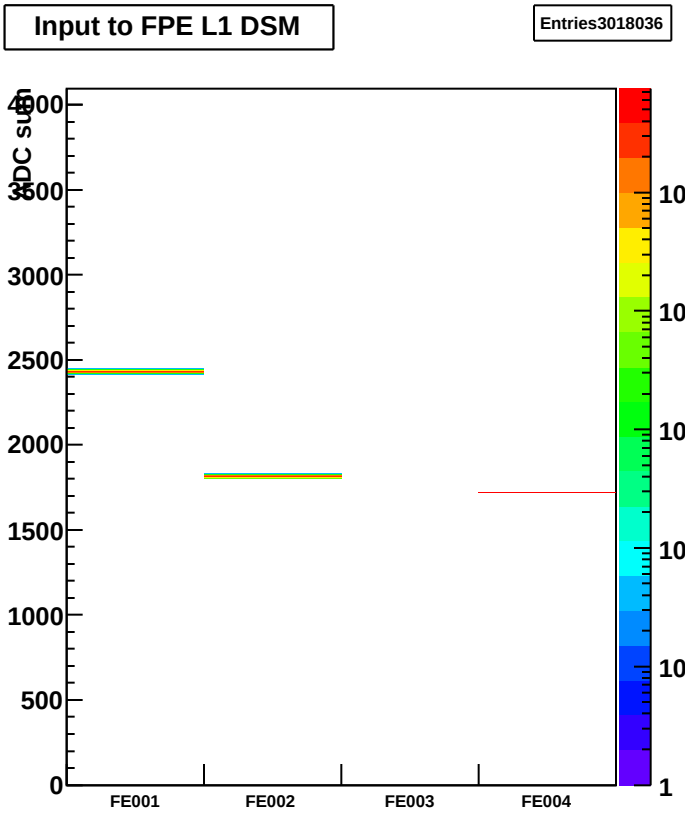

Input to FPD L2 DSM
Entries 4527054
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

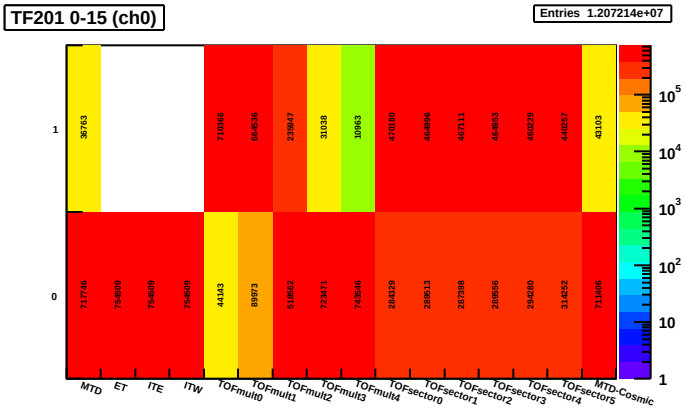

Input to FE001 QT board
Entries 2.414429e+07
ADC
channel

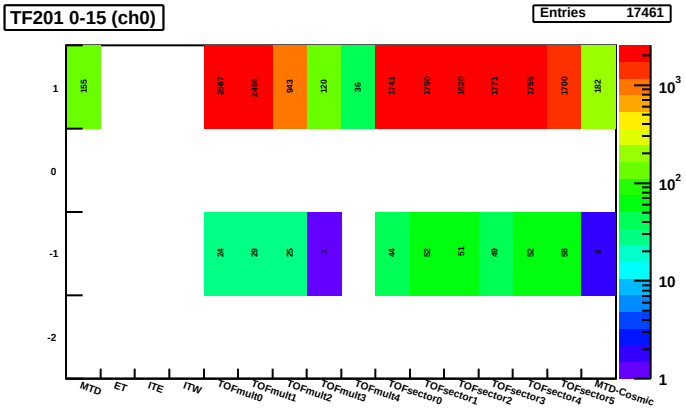

Input to FE002 QT board
Entries 2.414429e+07
ADC
channel

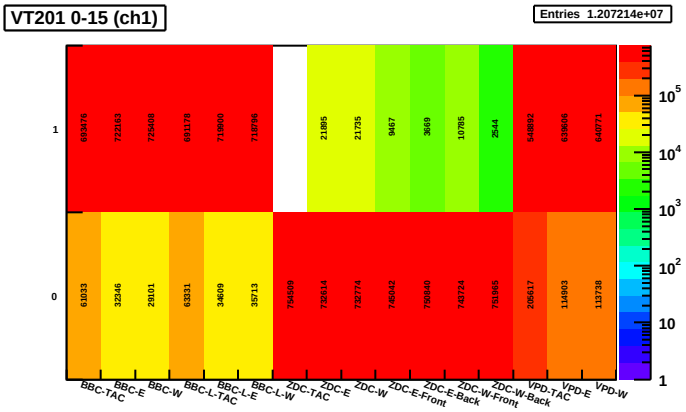

Input to FE003 QT board
Entries 2.414429e+07
ADC
channel

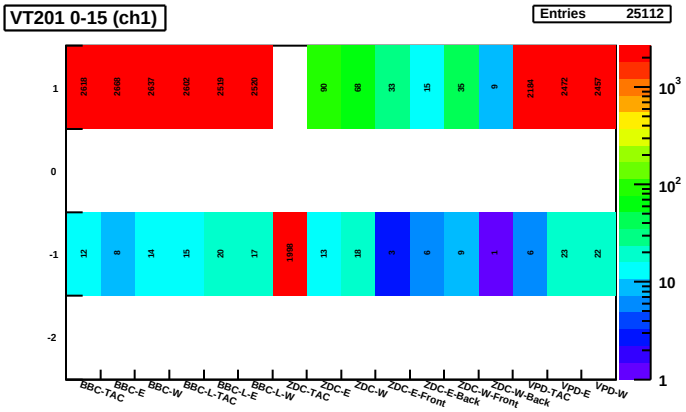

Input to FE004 QT board
Entries 2.414429e+07
ADC
channel


Input to FPE L1 DSM
Entries3018036
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 1.207214e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 17461
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.207214e+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 25112
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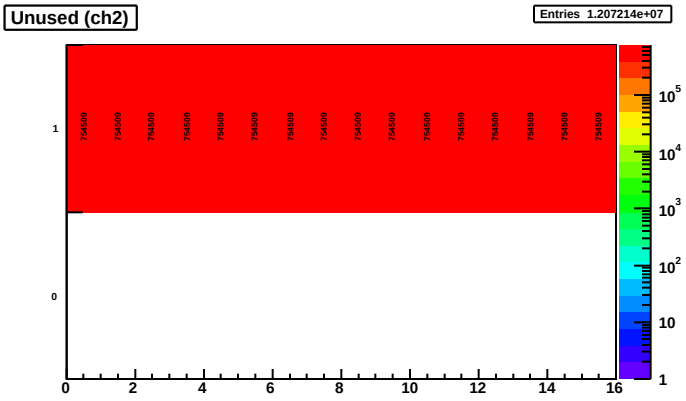
Unused (ch2)
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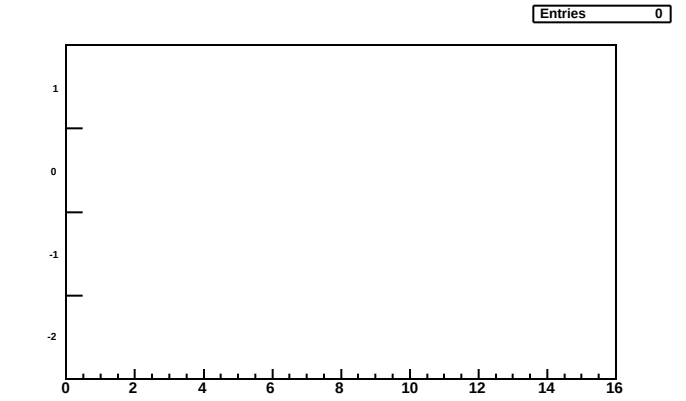
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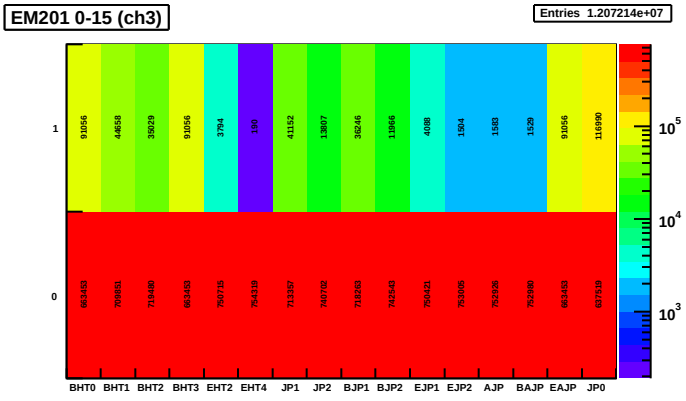
EM201 0-15 (ch3)
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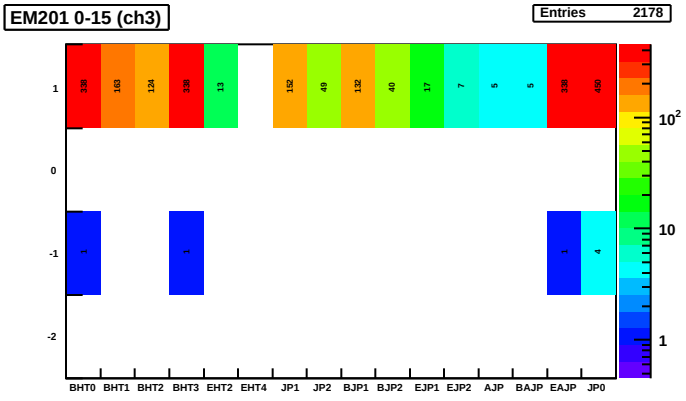
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


EM201 0-15 (ch3)
Entries 2178
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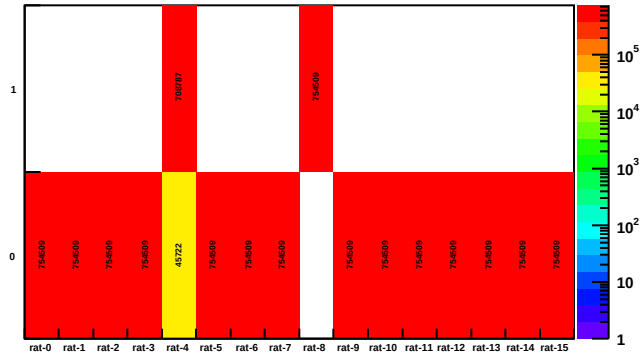
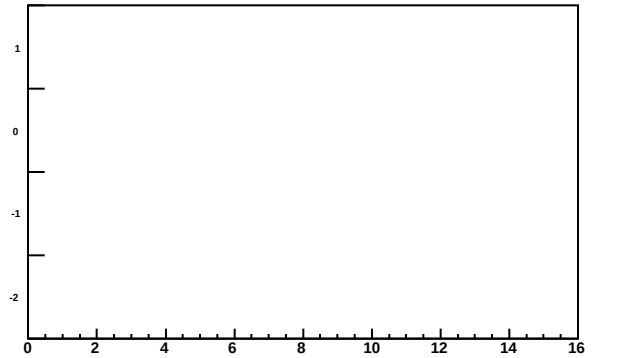
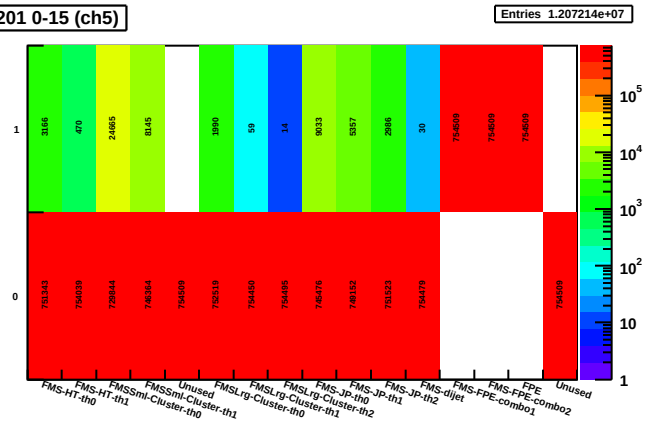
RAT board (ch4)





FP201 0-15 (ch5)



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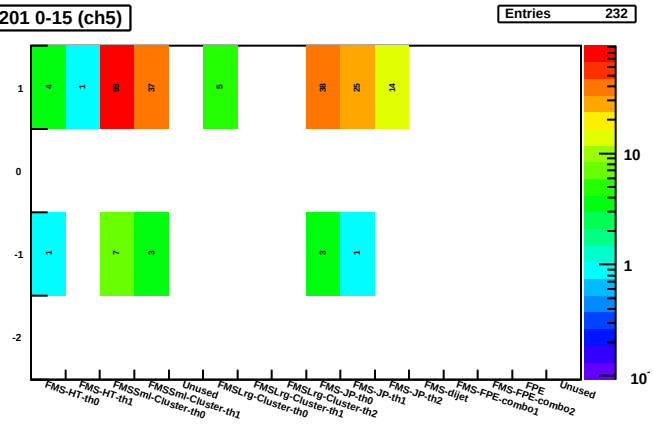
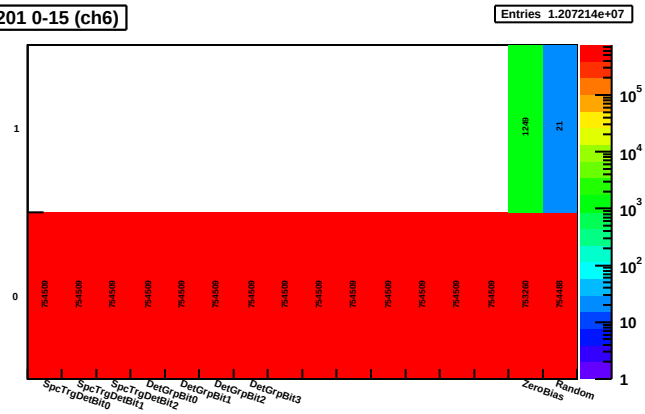
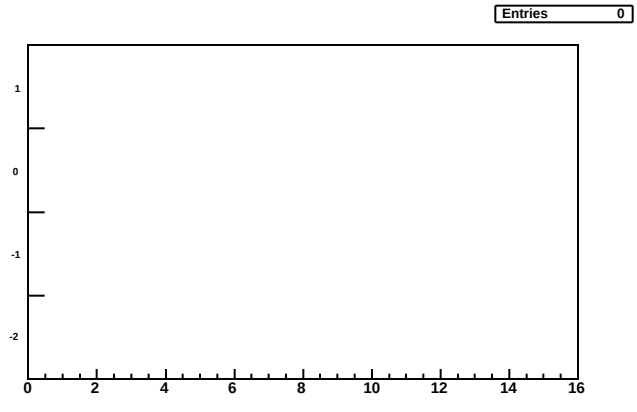
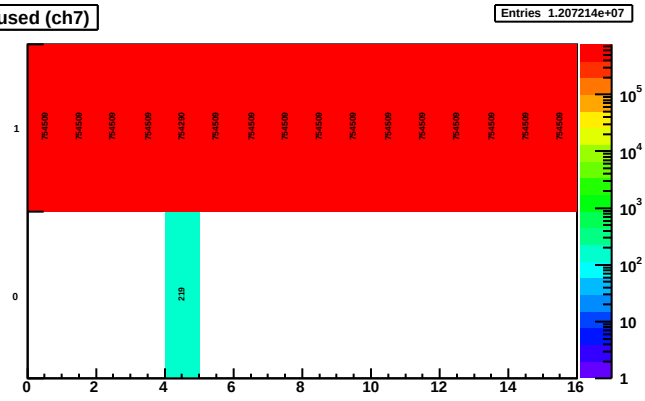
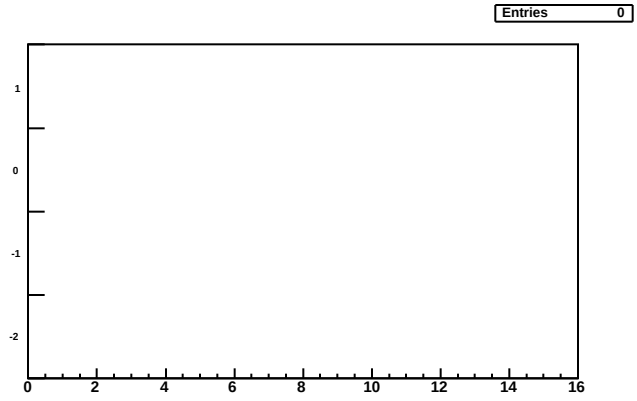


ST201 0-15 (ch6)





Unused (ch7)