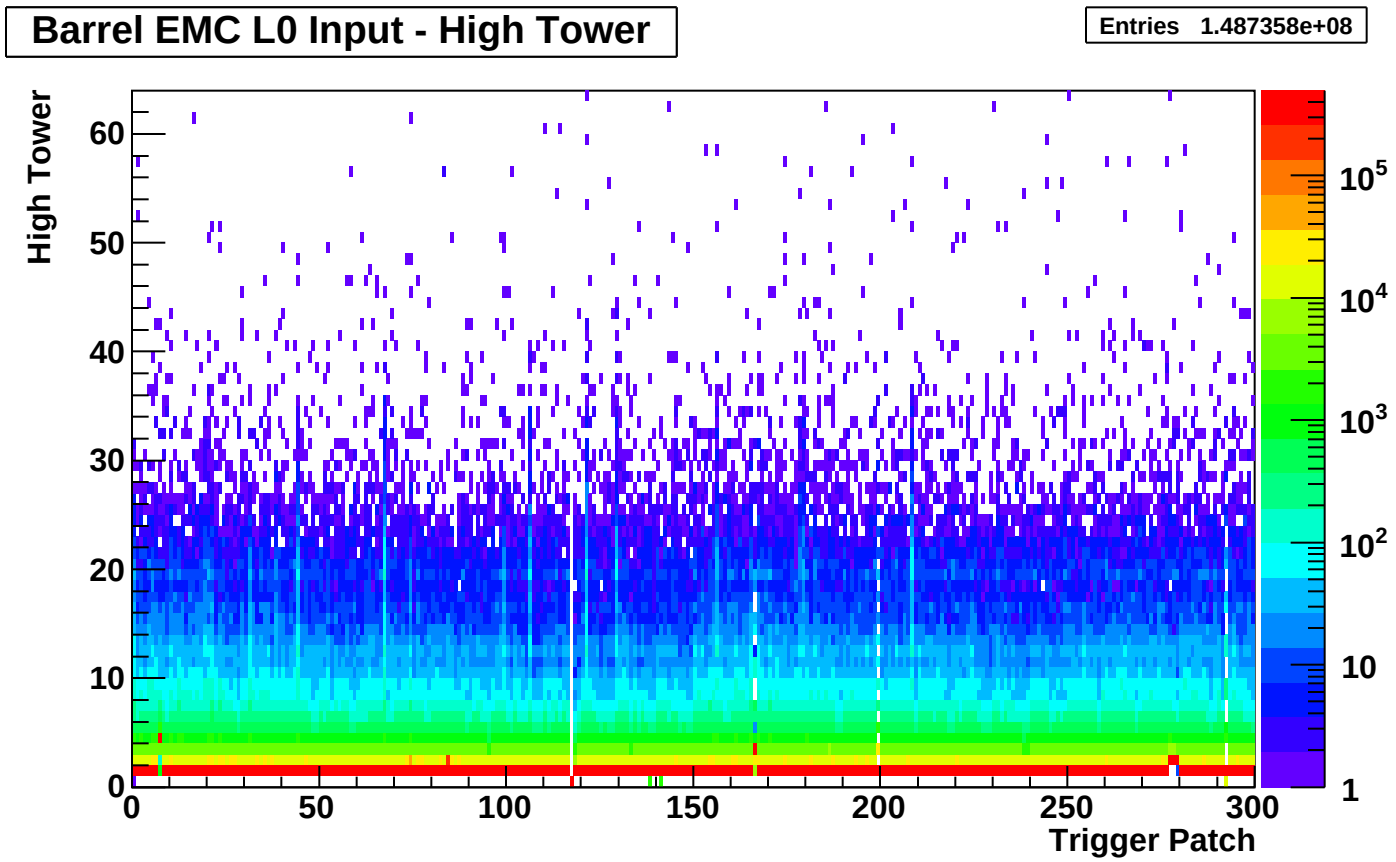
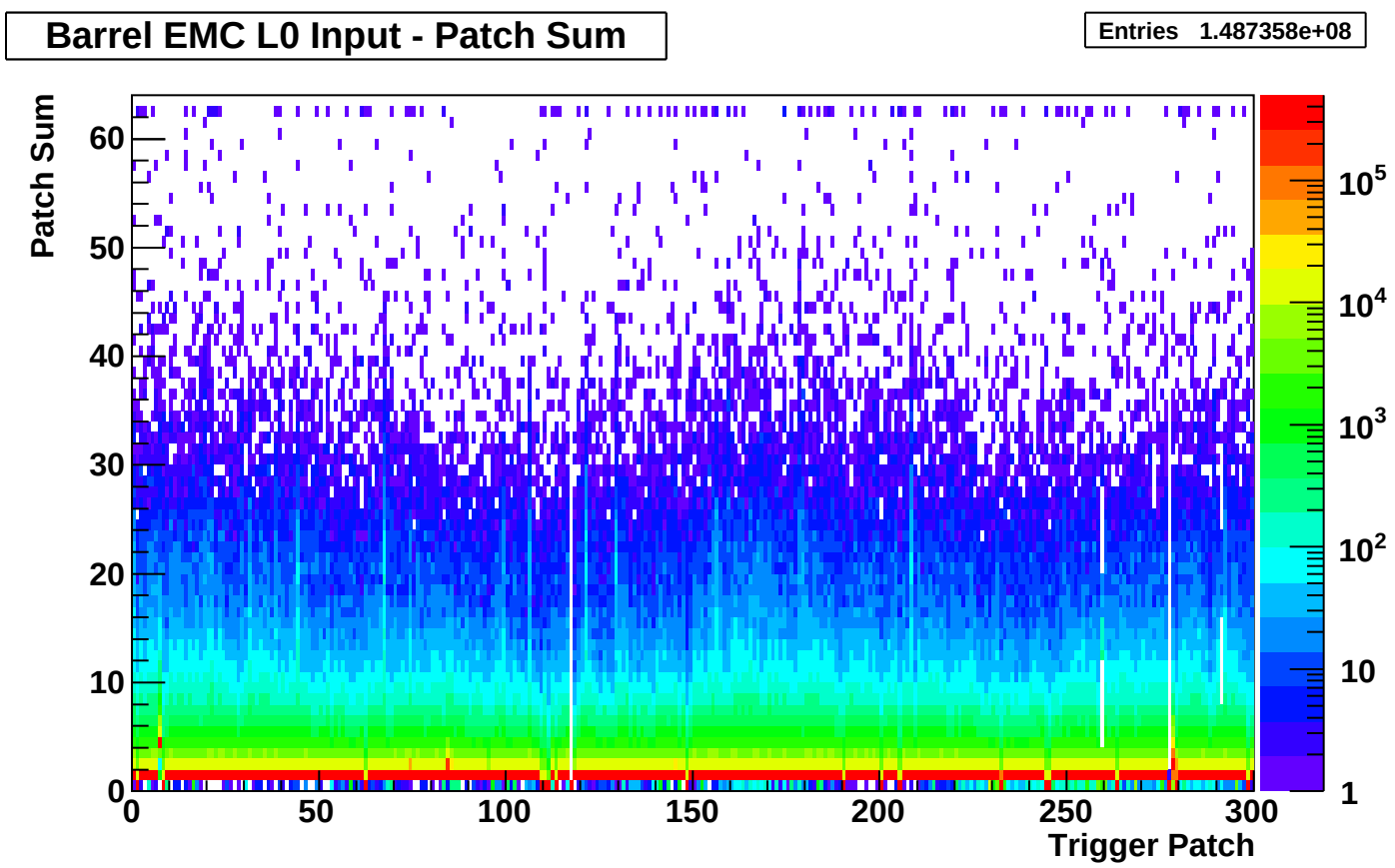
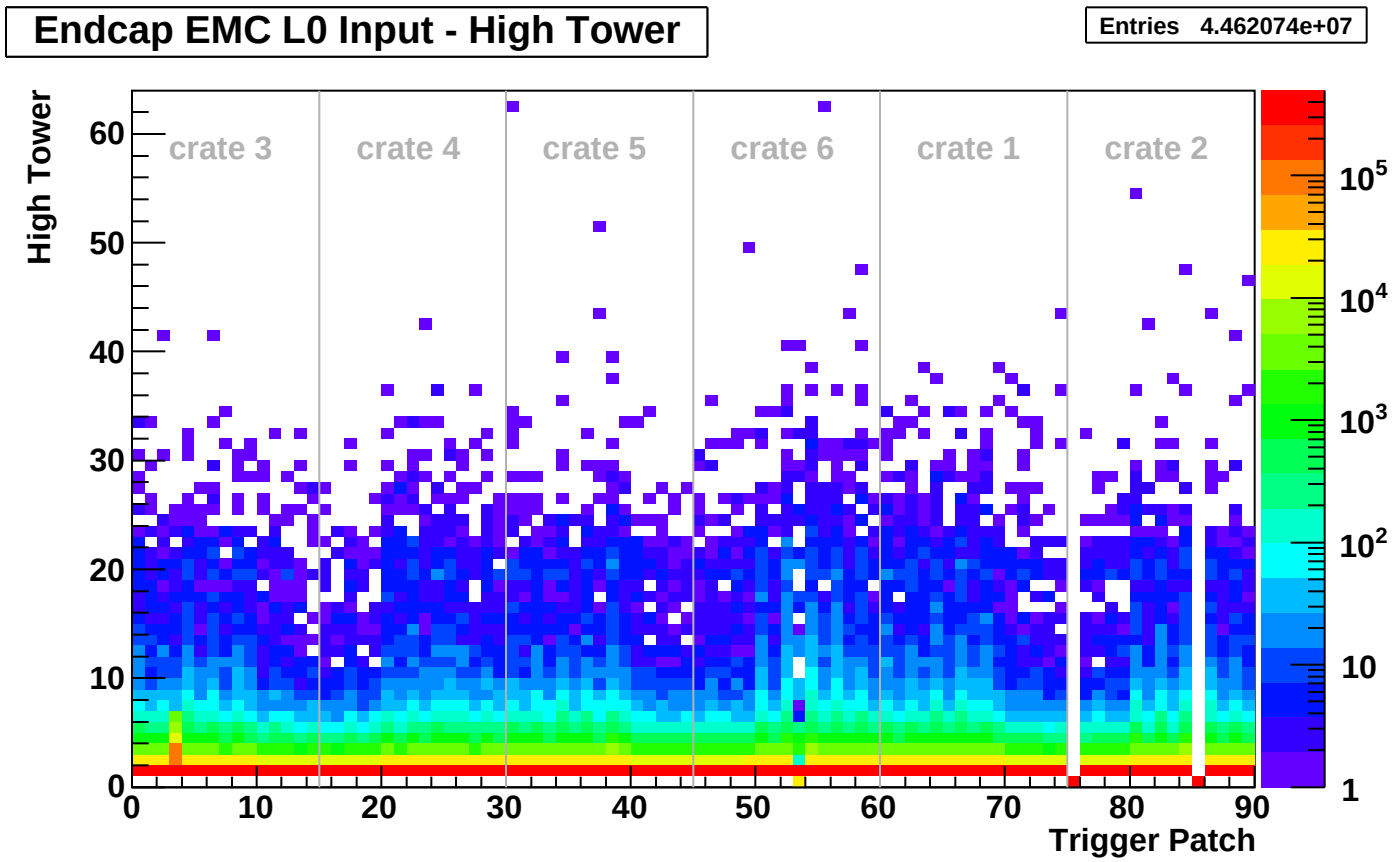
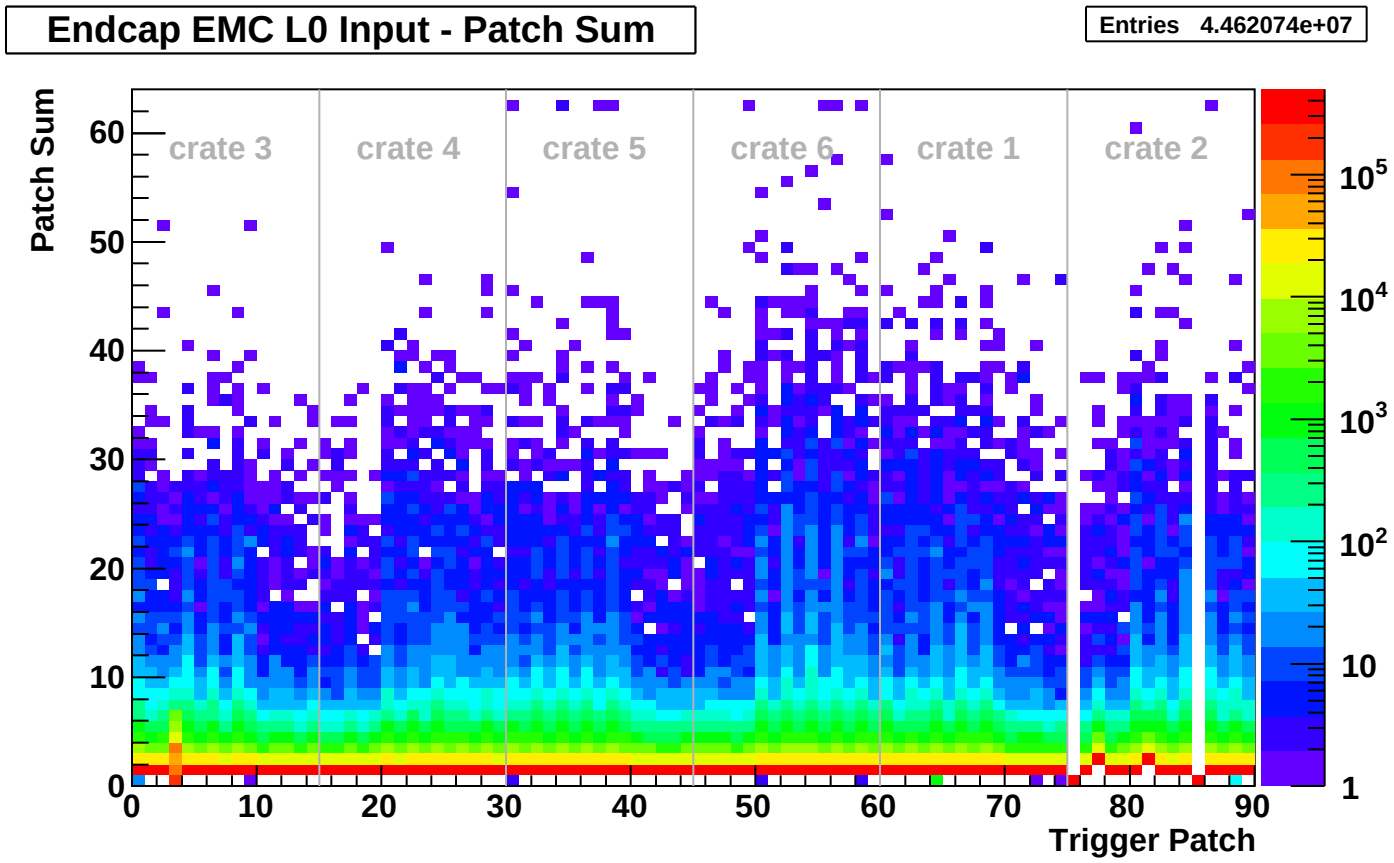
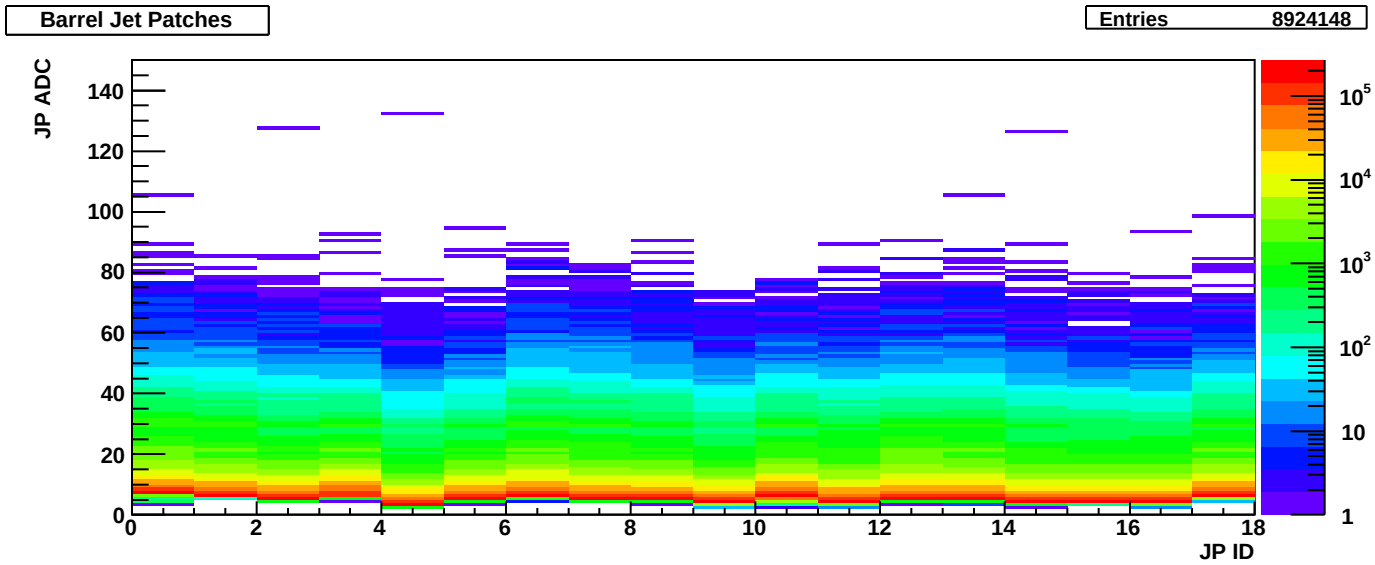
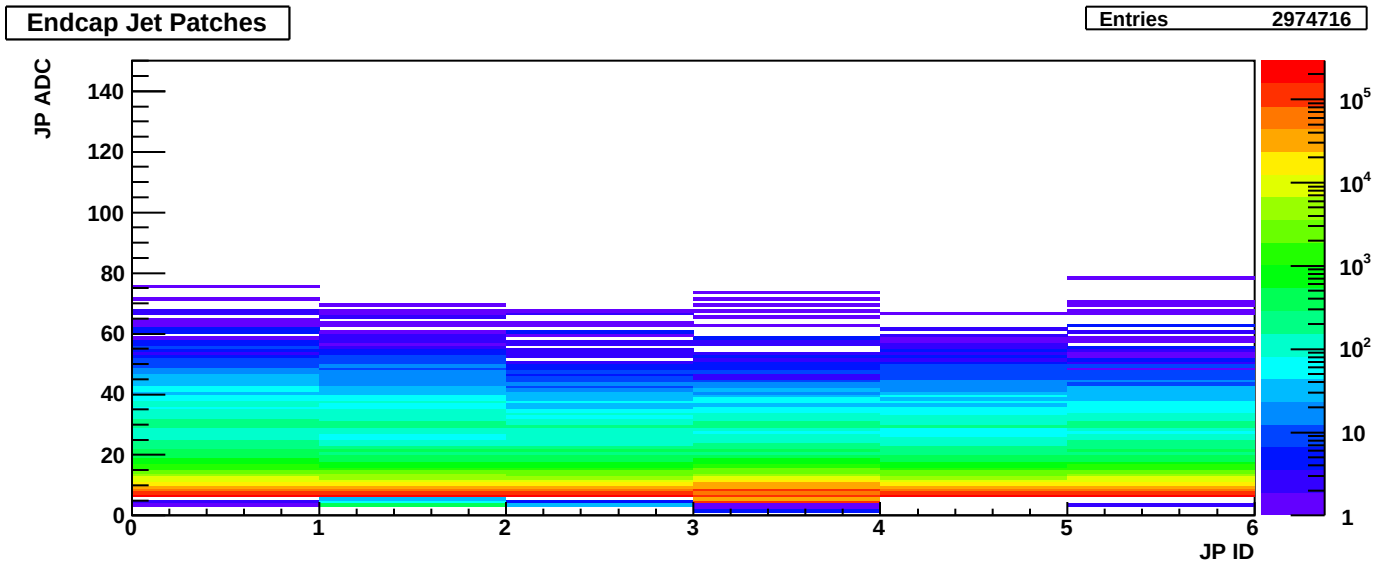

Barrel EMC L0 Input - High Tower
Entries 1.487358e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

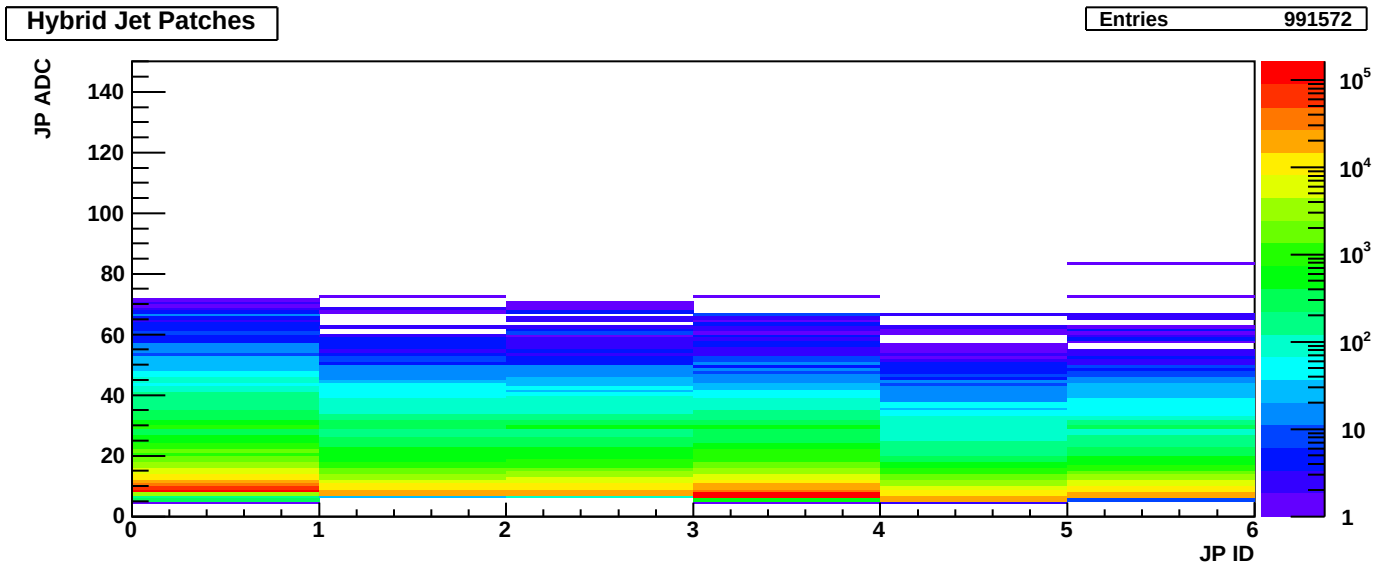

Barrel EMC L0 Input - Patch Sum
Entries 1.487358e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

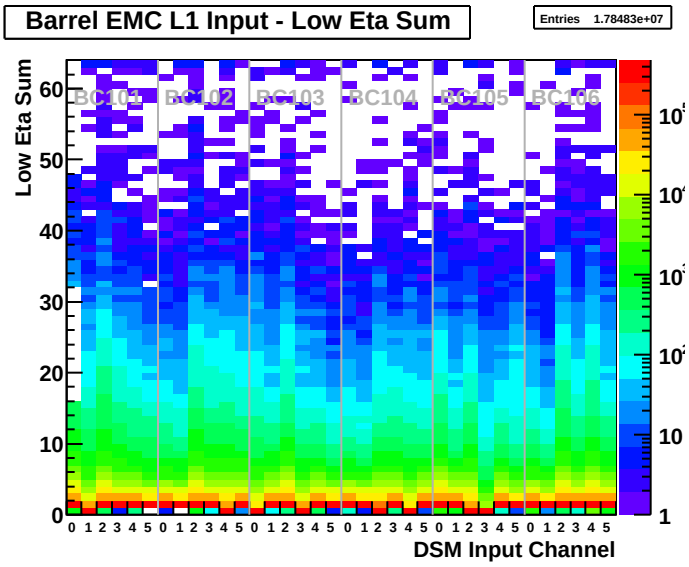

Endcap EMC L0 Input - High Tower
Entries 4.462074e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

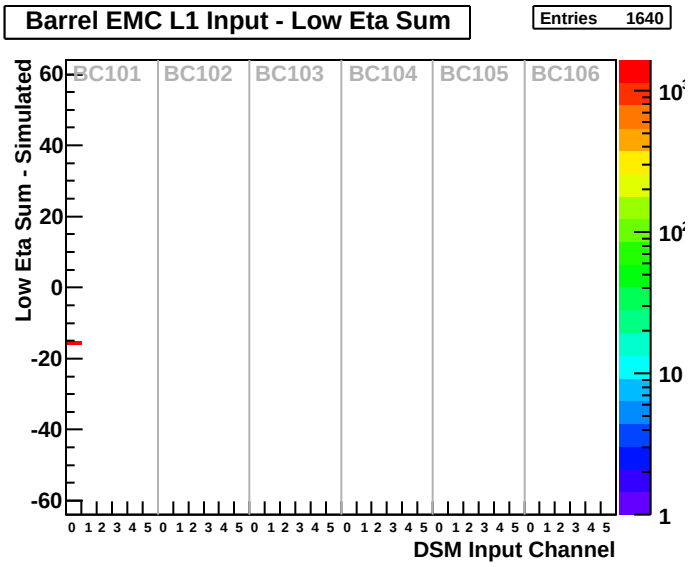

Endcap EMC L0 Input - Patch Sum
Entries 4.462074e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

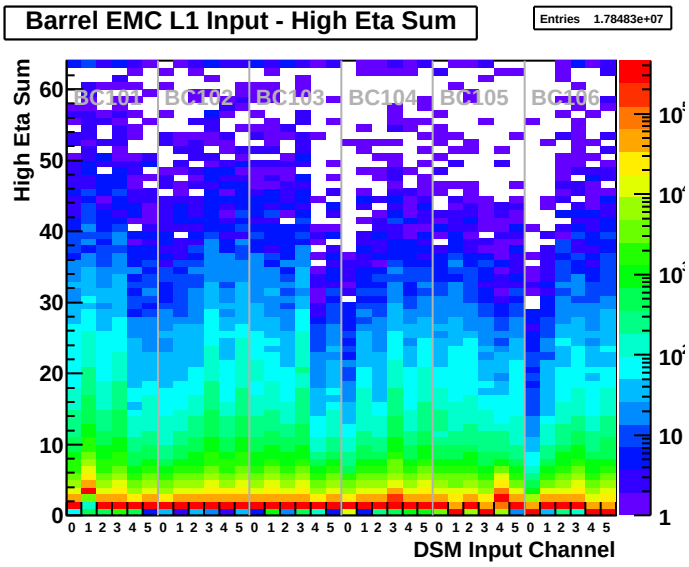

Barrel Jet Patches
Entries 8924148
JP ADC
JP ID

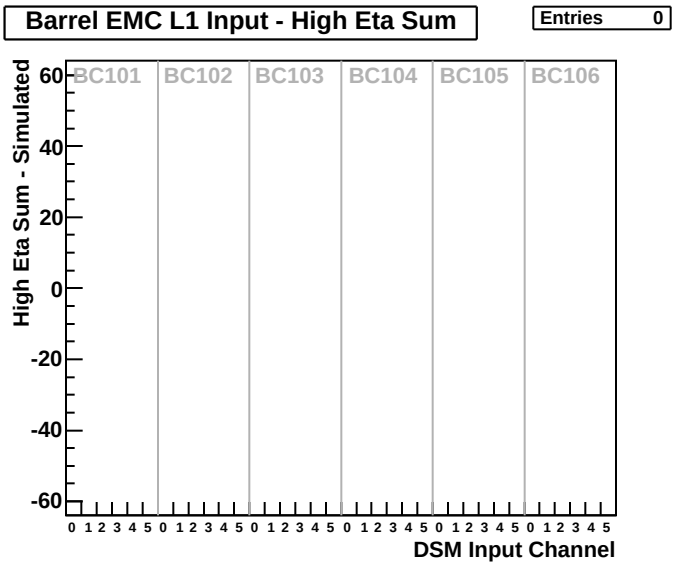

Endcap Jet Patches
Entries 2974716
JP ADC
JP ID

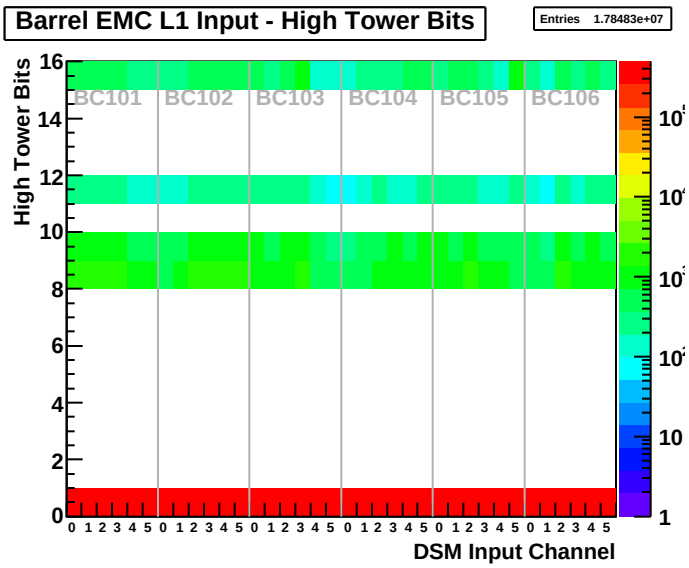

Hybrid Jet Patches
Entries 991572
JP ADC
JP ID

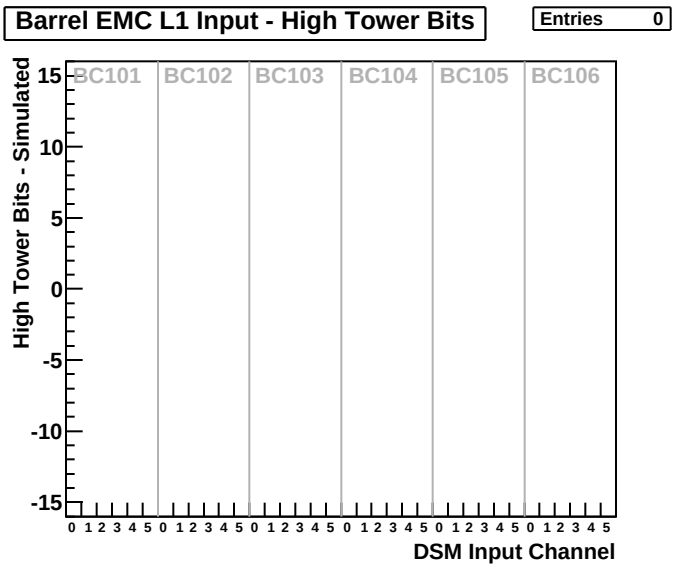

Barrel EMC L1 Input - Low Eta Sum
Entries 1.78483e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

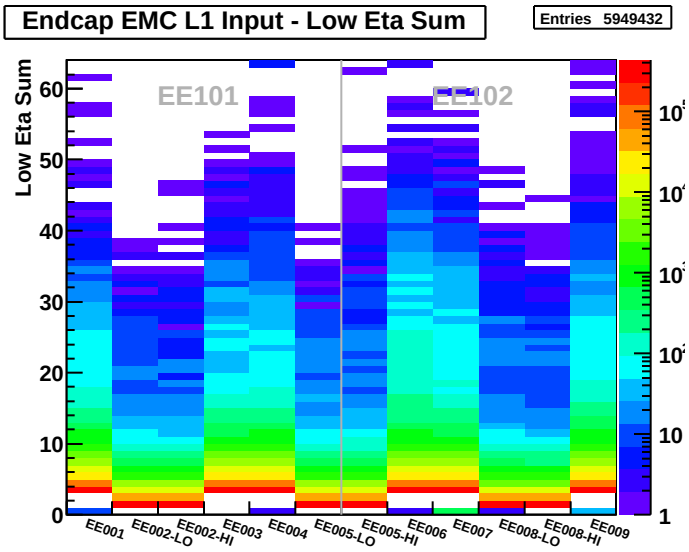

Barrel EMC L1 Input - Low Eta Sum
Entries 1640
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

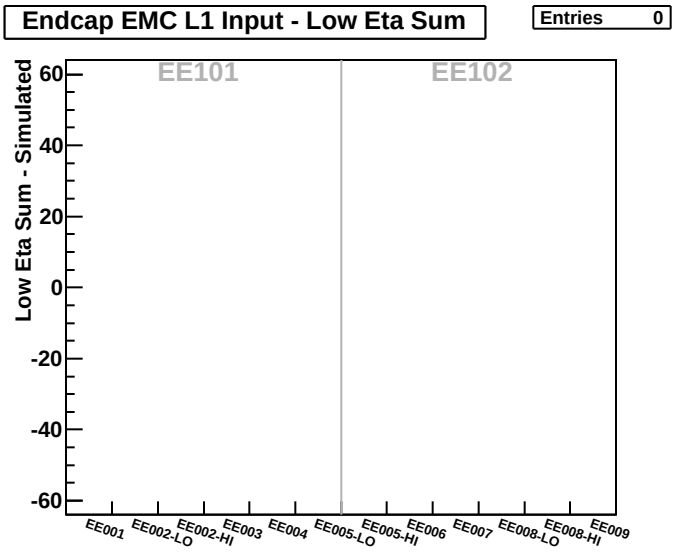

Barrel EMC L1 Input - High Eta Sum
Entries 1.78483e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

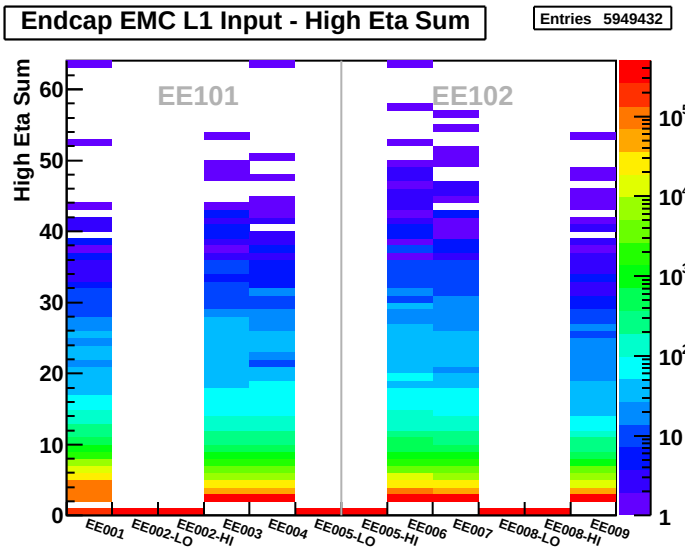

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

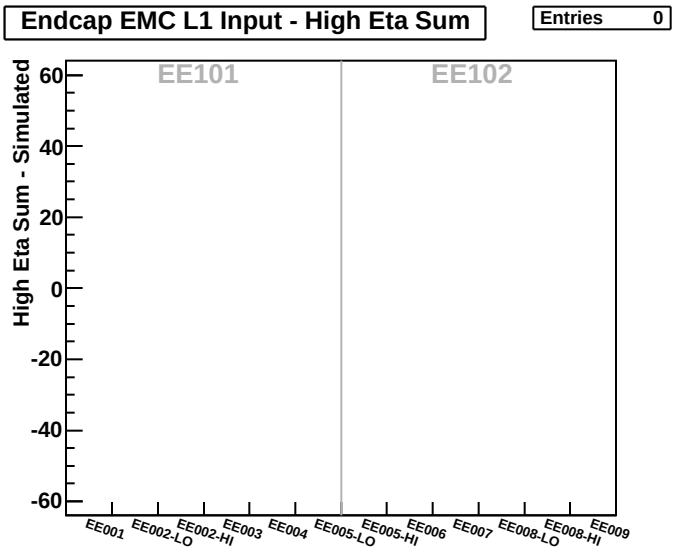

Barrel EMC L1 Input - High Tower Bits
Entries 1.78483e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

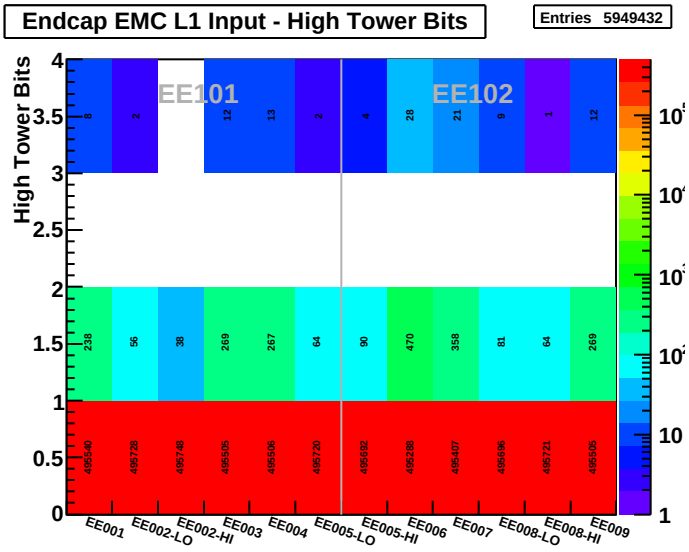

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

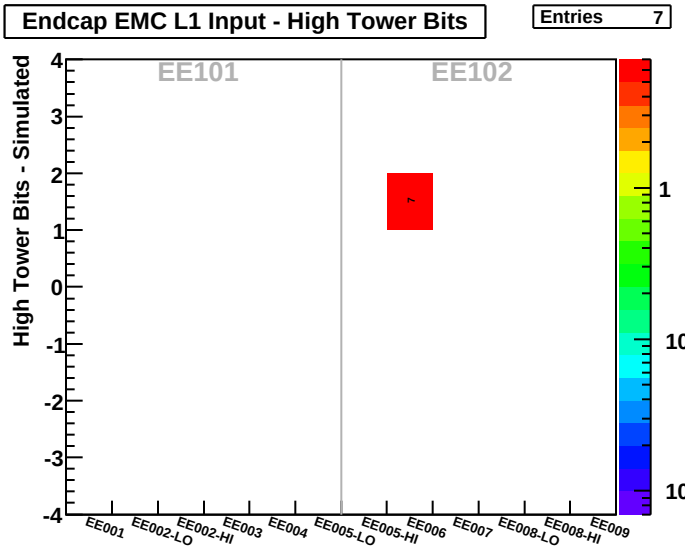

Endcap EMC L1 Input - Low Eta Sum
Entries 5949432
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

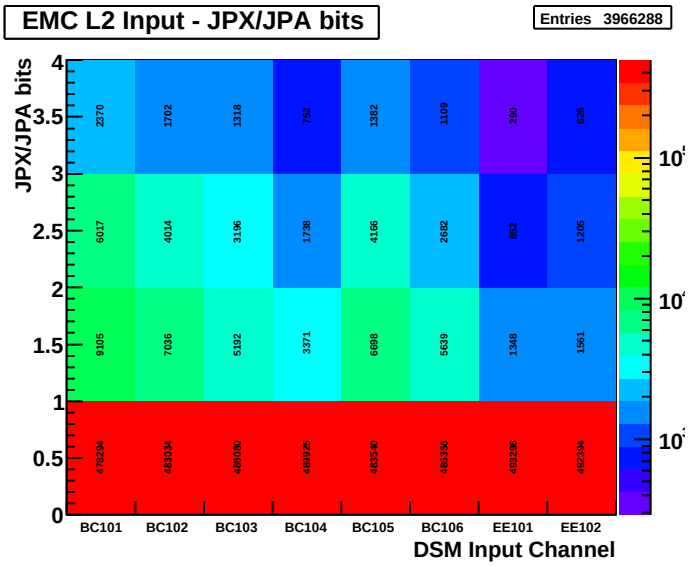

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

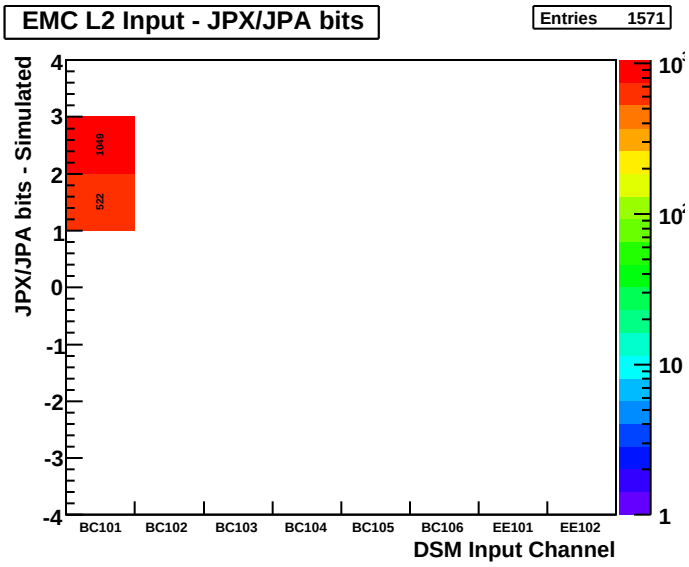

Endcap EMC L1 Input - High Eta Sum
Entries 5949432
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

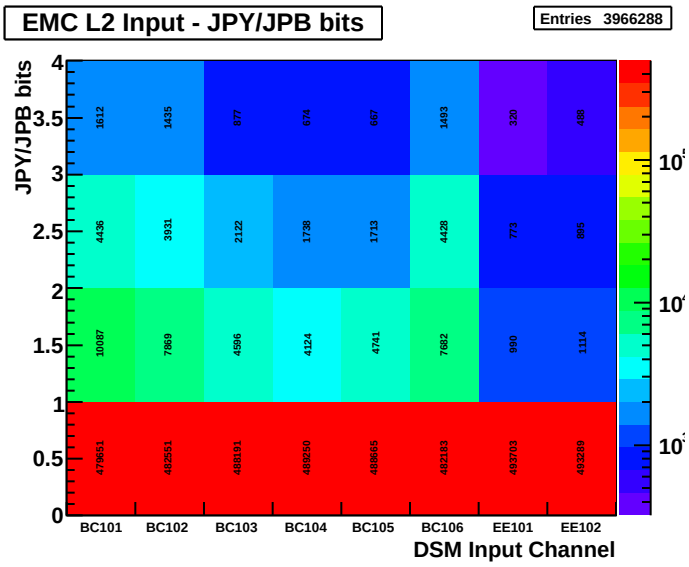

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

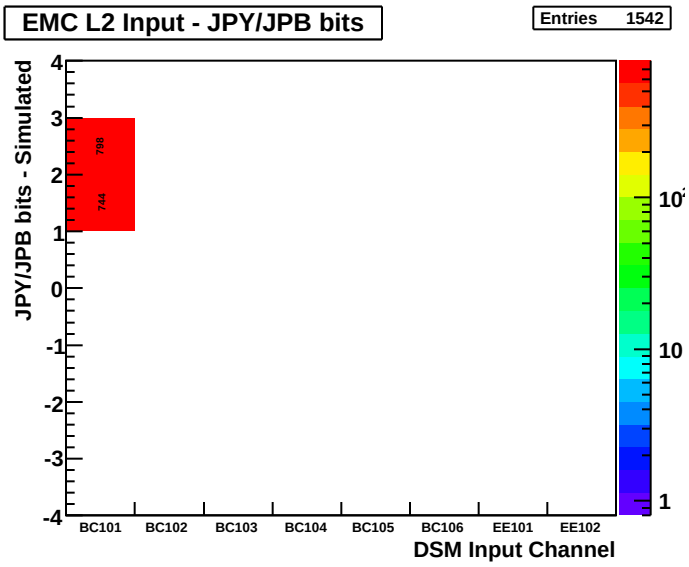

Endcap EMC L1 Input - High Tower Bits
Entries 5949432
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

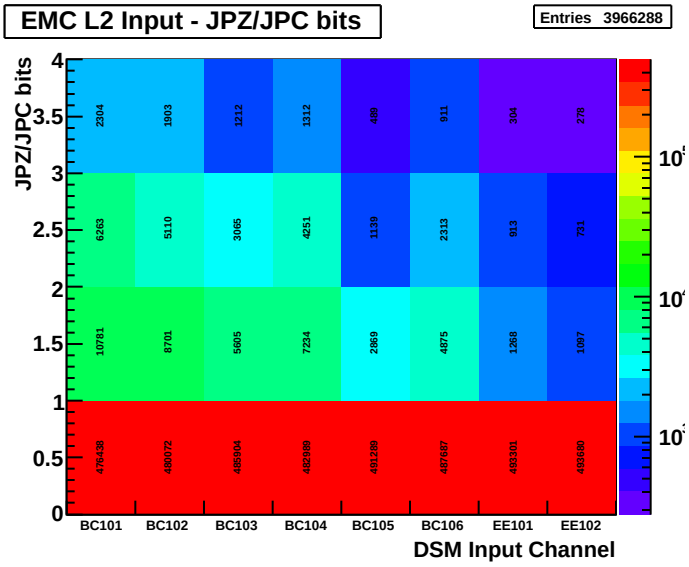

Endcap EMC L1 Input - High Tower Bits
Entries 7
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

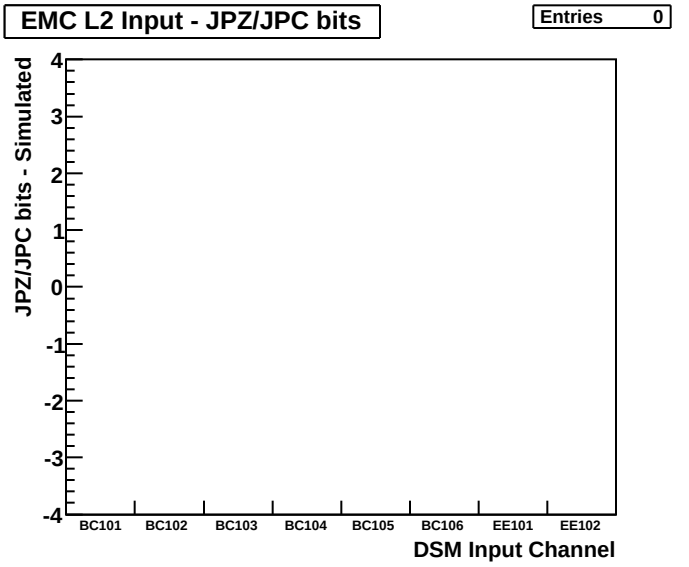

EMC L2 Input - JPX/JPA bits
Entries 3966288
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2370 1702 1318 752 1382 1109 290 626
6017 4014 3196 1738 4166 2682 852 1205
9105 7036 5192 3371 6698 5639 1348 1561
478294 483034 486080 489925 493540 495356 493296 492394

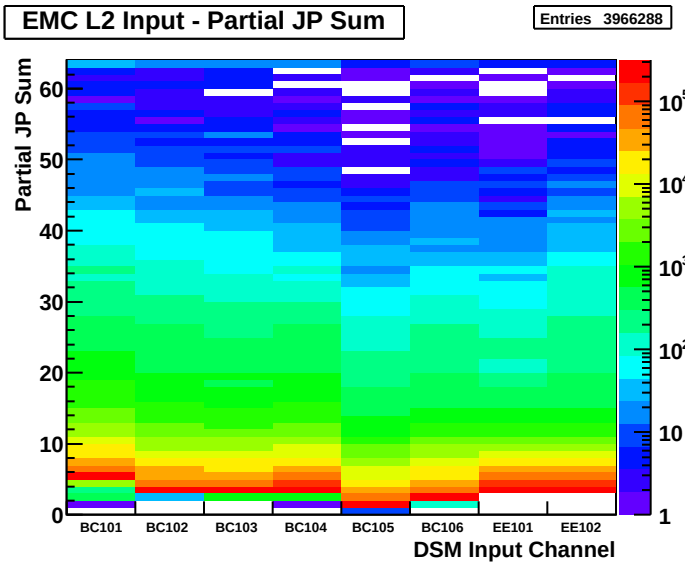

EMC L2 Input - JPX/JPA bits
Entries 1571
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1049
522

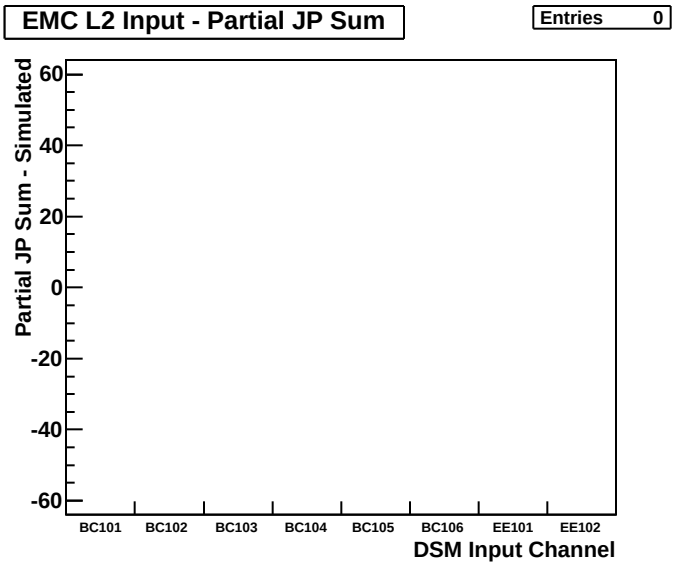

EMC L2 Input - JPY/JPB bits
Entries 3966288
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1612 1435 877 674 667 1493 320 488
4436 3931 2122 1738 1713 4428 773 895
10087 7869 4596 4124 4741 7682 990 1114
479651 482551 488191 489250 489665 492183 493703 493289

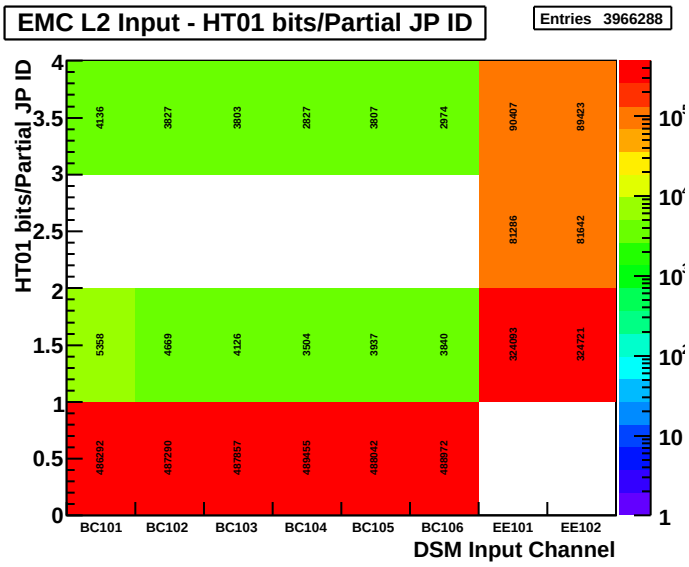

EMC L2 Input - JPY/JPB bits
Entries 1542
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
798
744

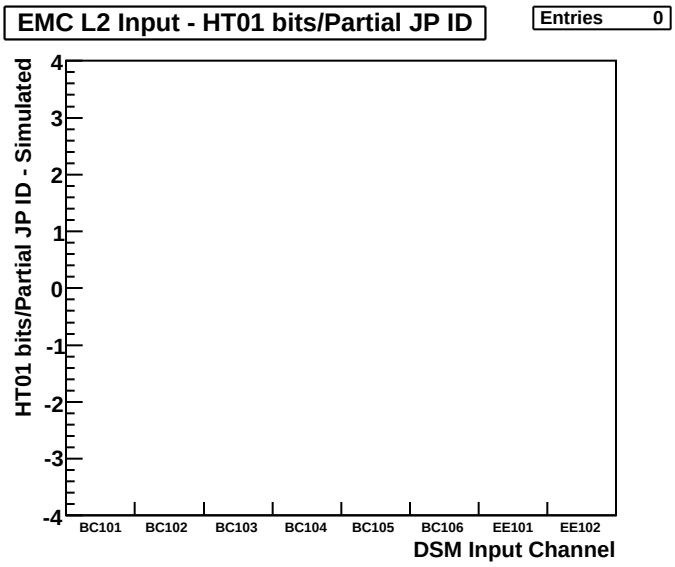

EMC L2 Input - JPZ/JPC bits
Entries 3966288
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2304 1903 1212 1312 489 911 304 278
6263 5110 3065 4251 1139 2313 913 731
10781 8701 5605 7234 2869 4975 1268 1097
476438 480072 485904 482880 491289 487687 493301 493680

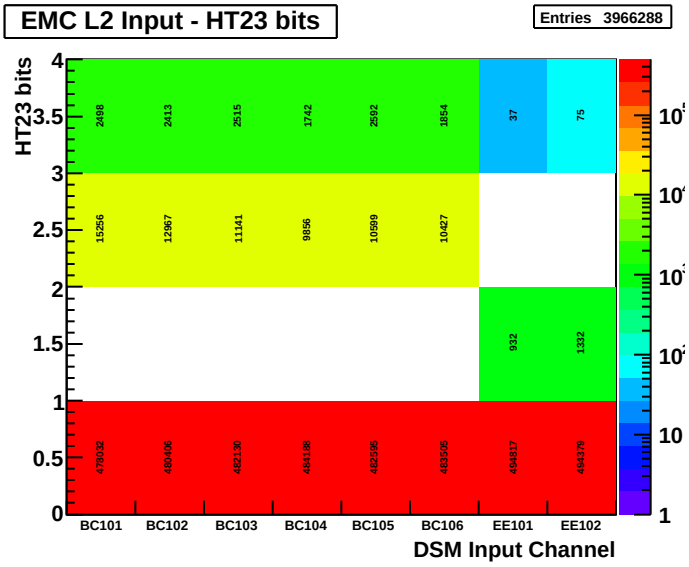

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

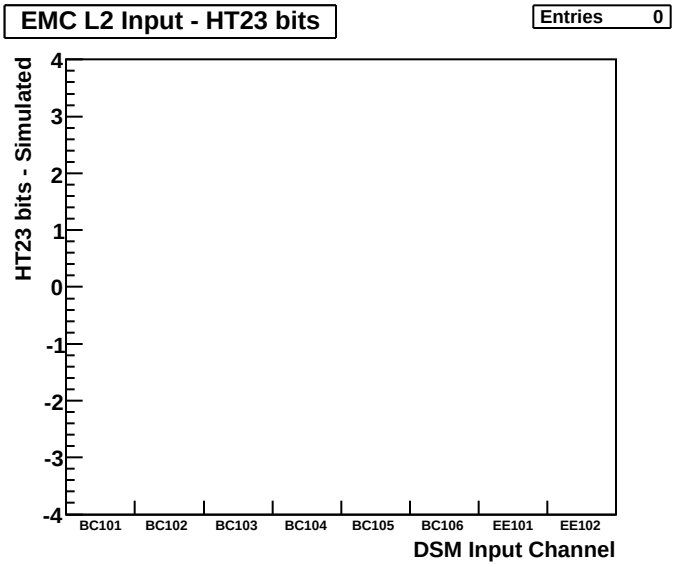

EMC L2 Input - Partial JP Sum
Entries 3966288
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

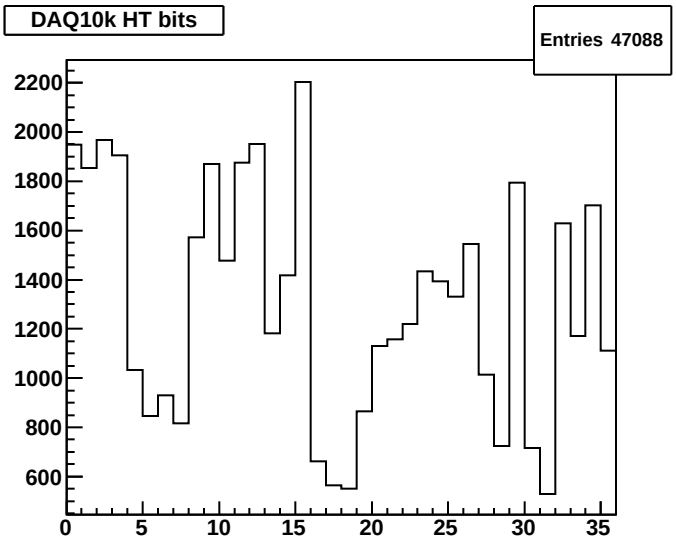

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

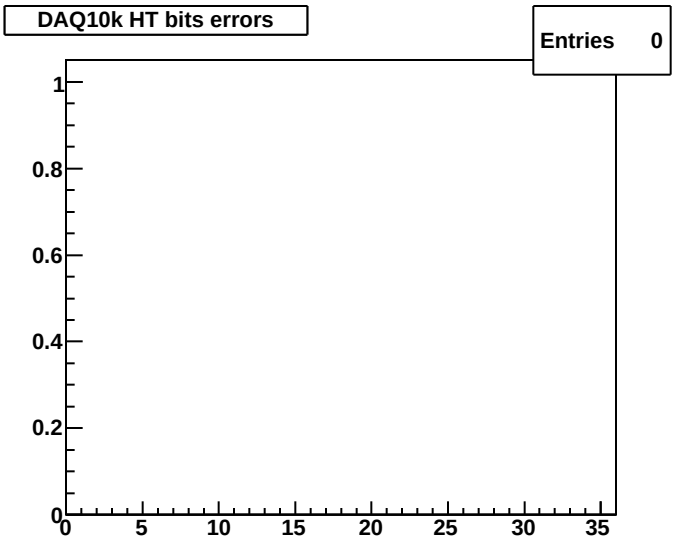

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3966288
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

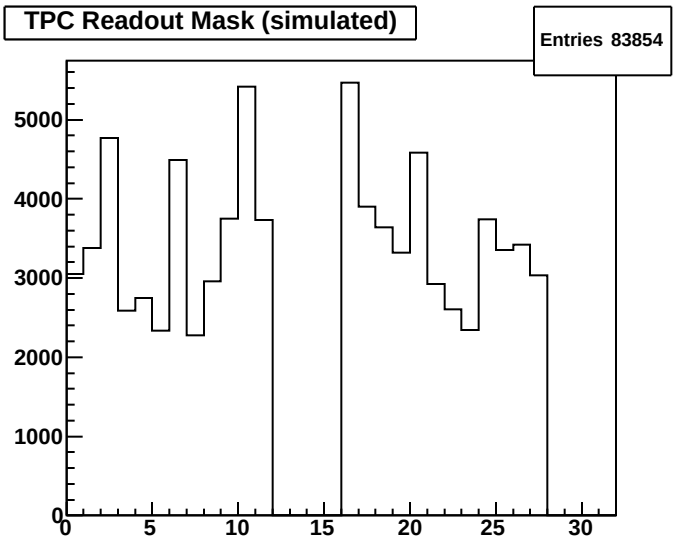

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

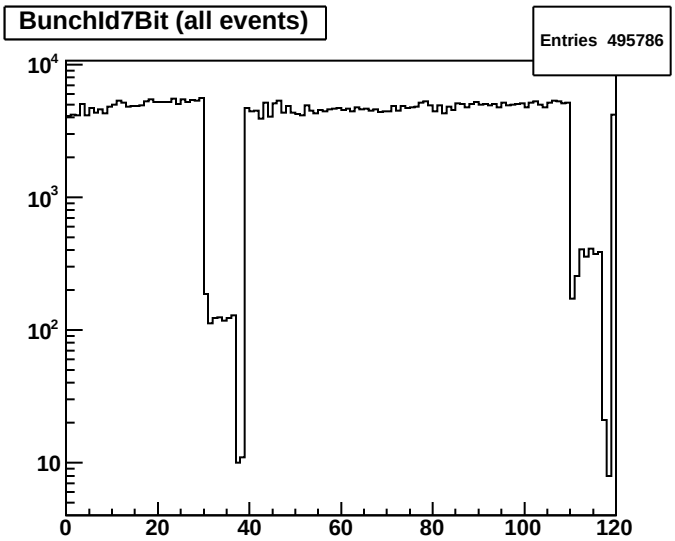

EMC L2 Input - HT23 bits
Entries 3966288
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

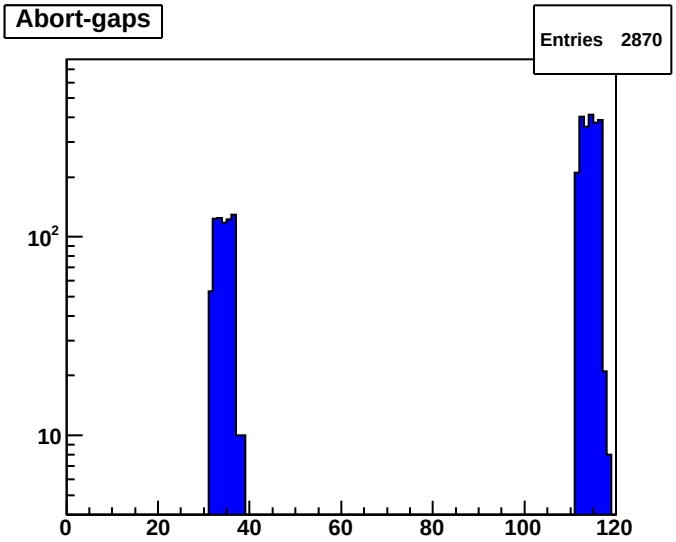

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

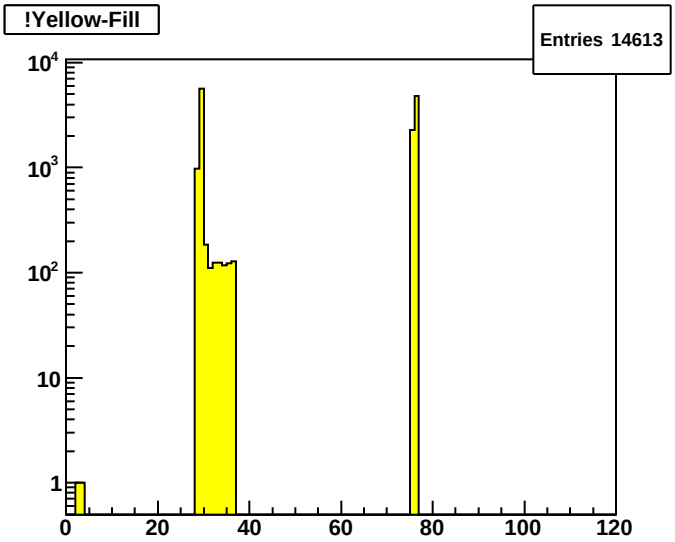

DAQ10k HT bits
Entries 47088

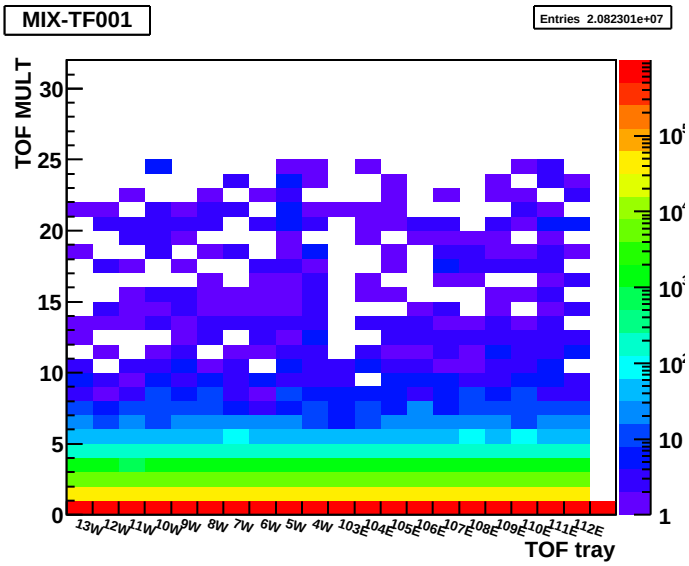

DAQ10k HT bits errors
Entries 0

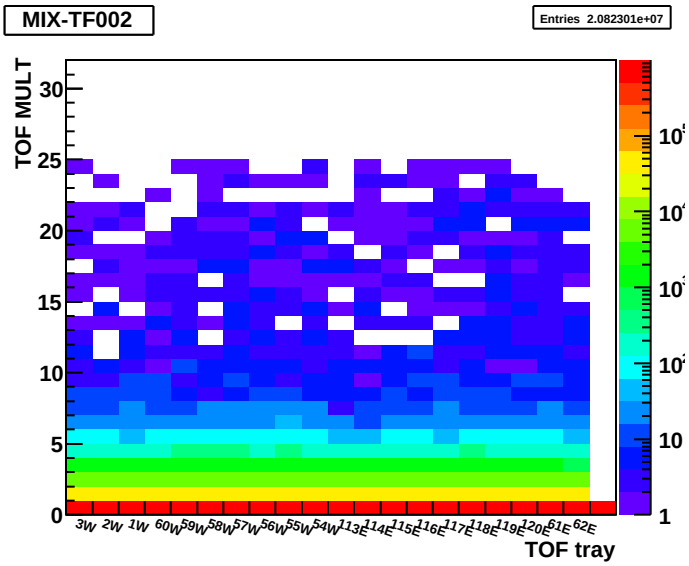

TPC Readout Mask (simulated)
Entries 83854

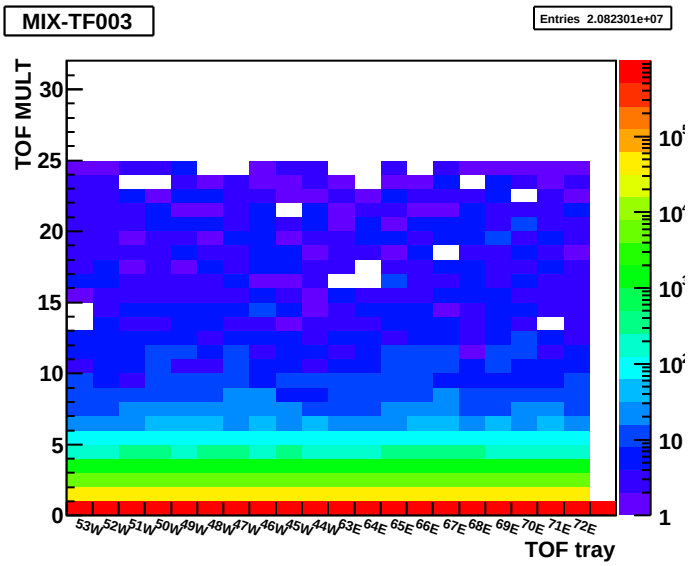

BunchId7Bit (all events)
Entries 495786

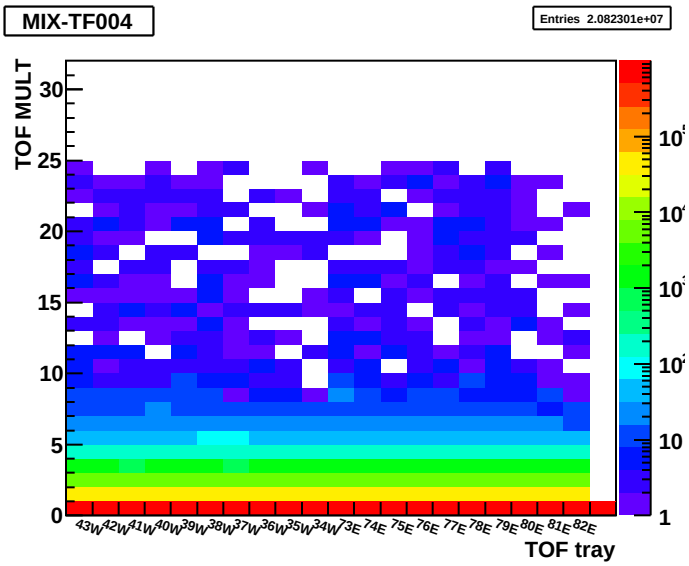

Abort-gaps
Entries 2870

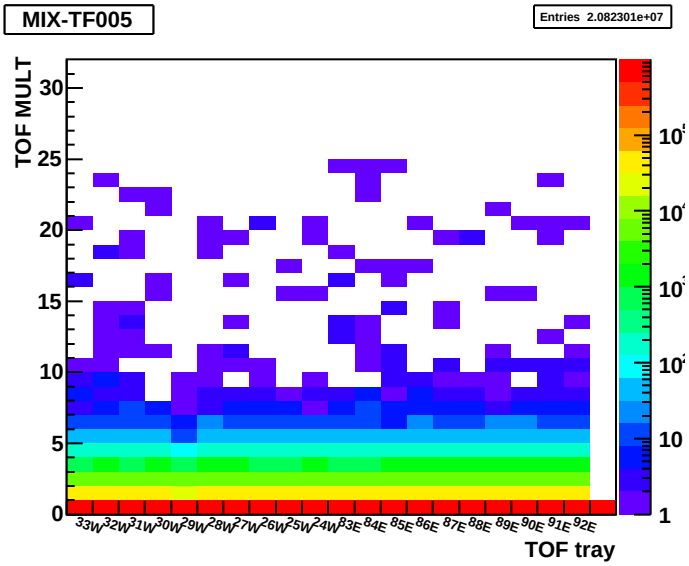

!Yellow-Fill
Entries 14613

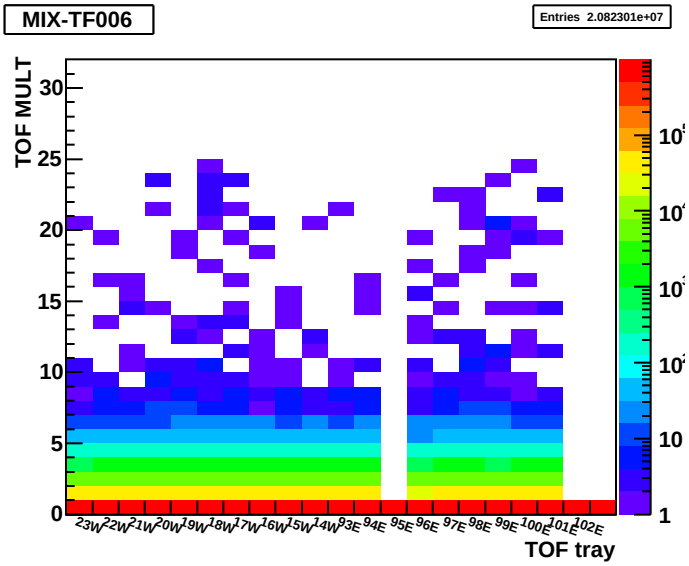

MIX-TF001
Entries 2.082301e+07
TOF MULT
TOF tray

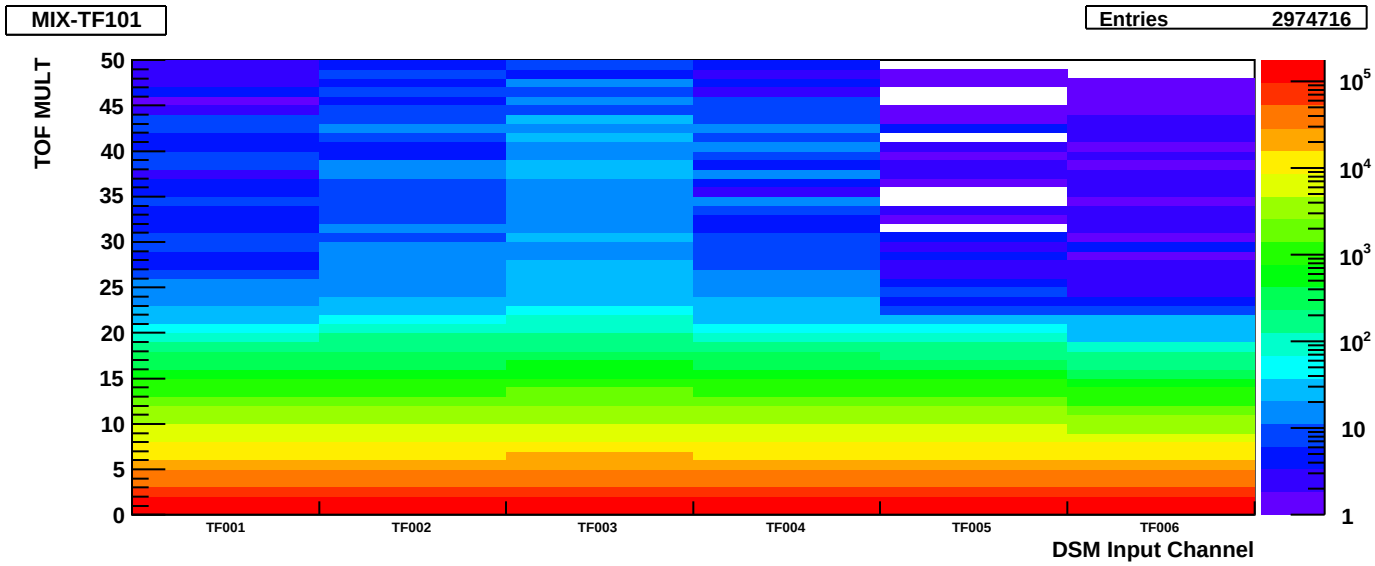

MIX-TF002
Entries 2.082301e+07
TOF MULT
TOF tray

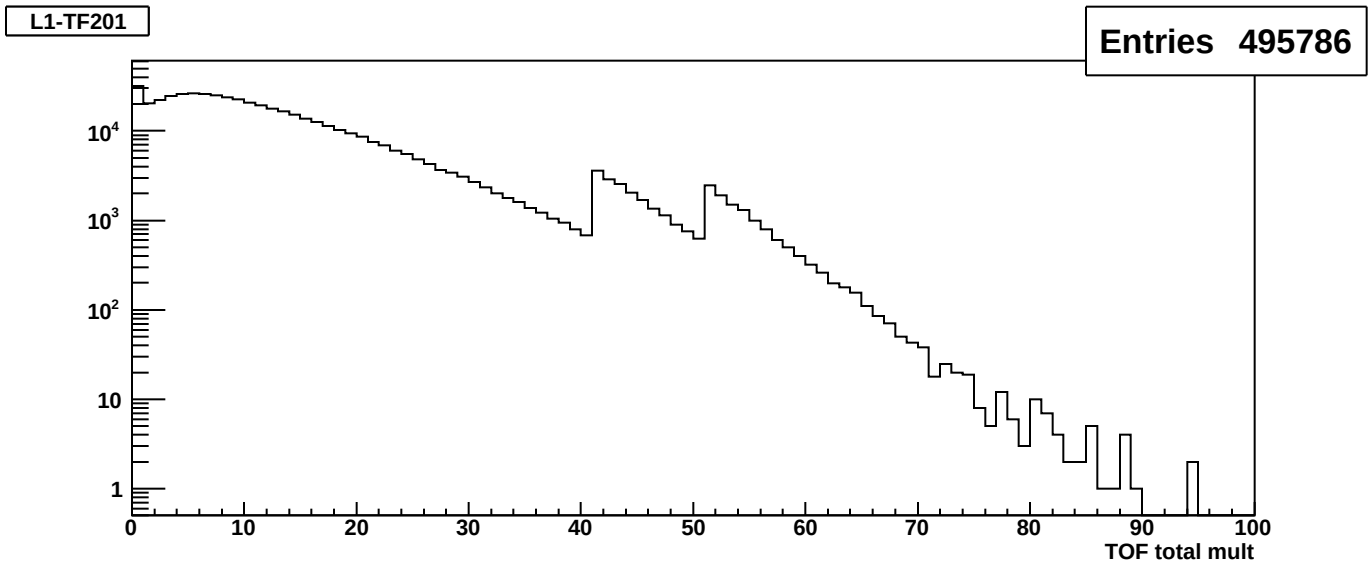

MIX-TF003
Entries 2.082301e+07
TOF MULT
TOF tray

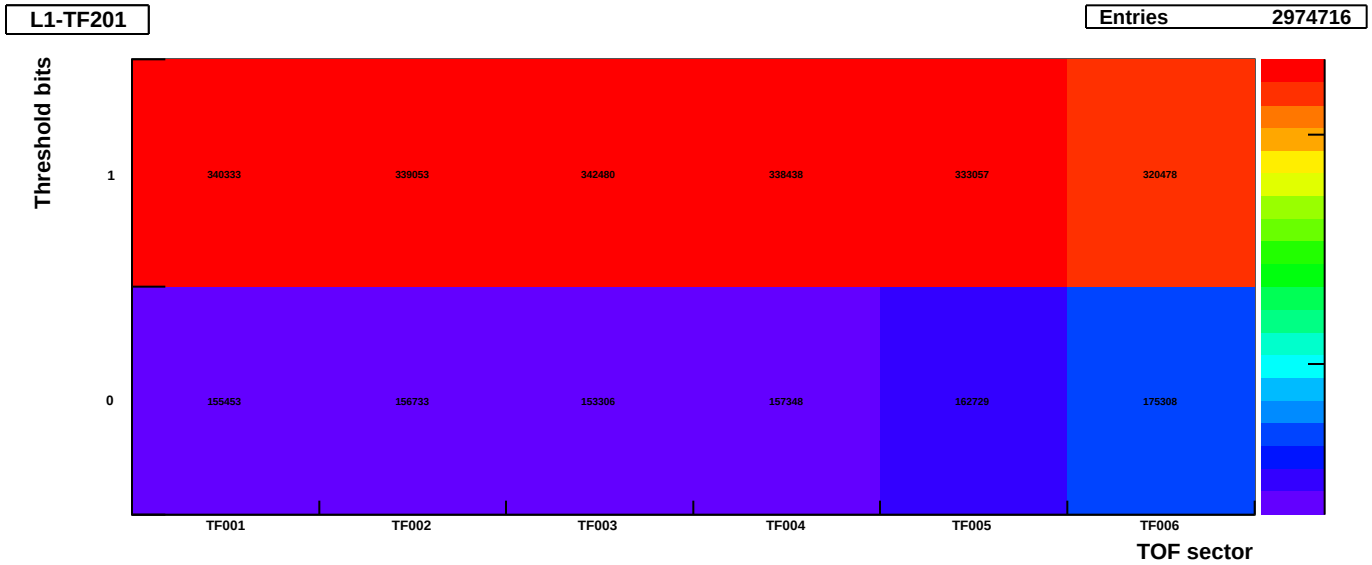

MIX-TF004
Entries 2.082301e+07
TOF MULT
TOF tray

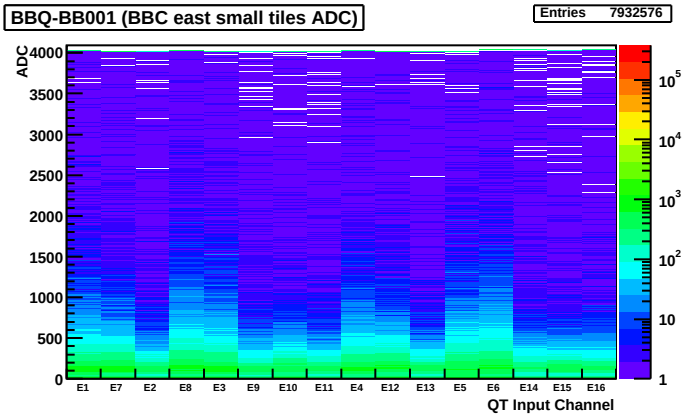

MIX-TF005
Entries 2.082301e+07
TOF MULT
TOF tray

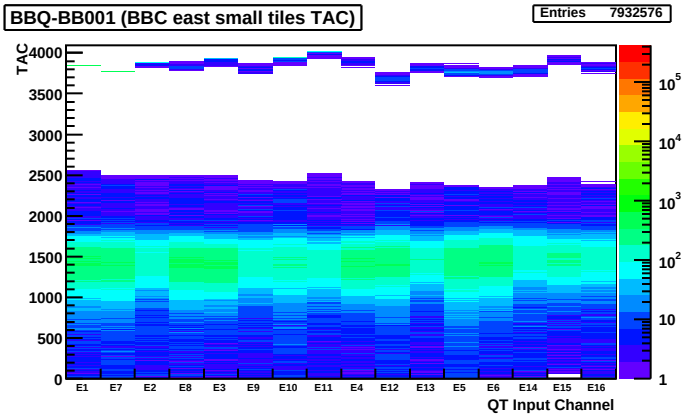

MIX-TF006
Entries 2.082301e+07
TOF MULT
TOF tray

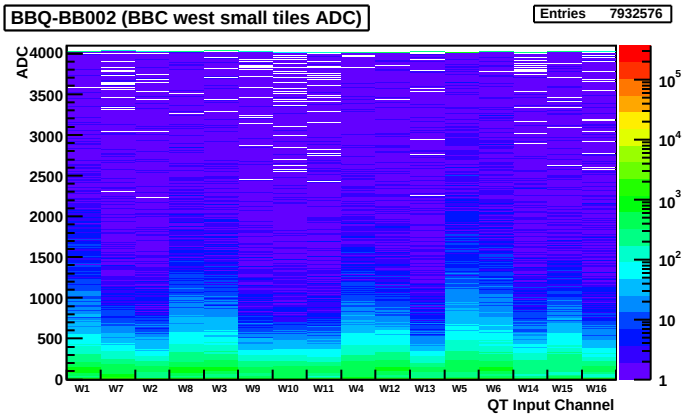

MIX-TF101
Entries 2974716
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

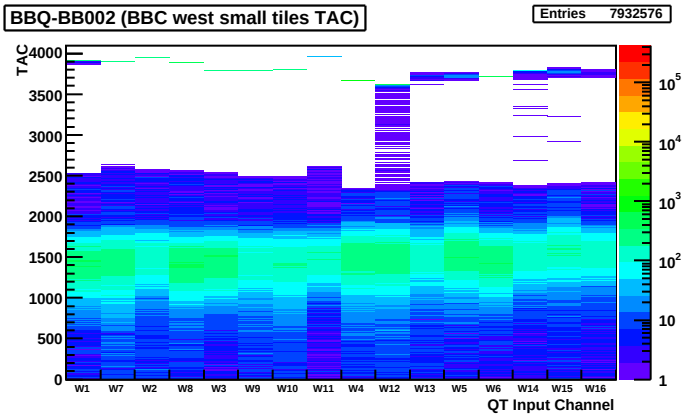

L1-TF201
Entries 495786
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

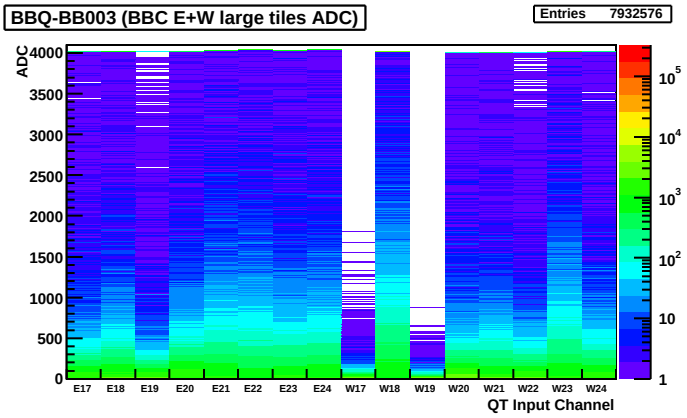

L1-TF201
Entries 2974716
Threshold bits
1
0
340333
339053
342480
338438
333057
320478
155453
156733
153306
157348
162729
175308
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

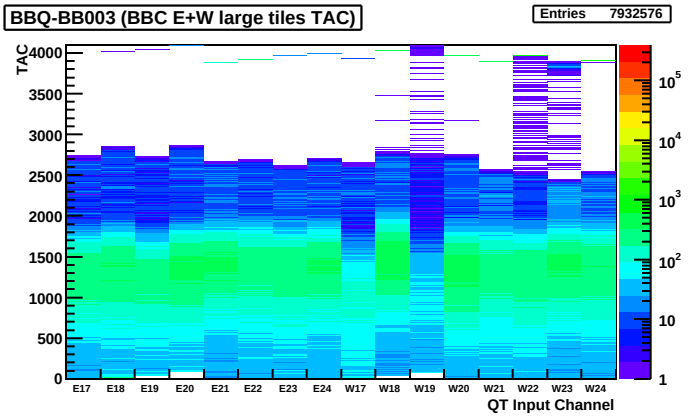

BBQ-BB001 (BBC east small tiles ADC)
Entries 7932576
ADC
QT Input Channel

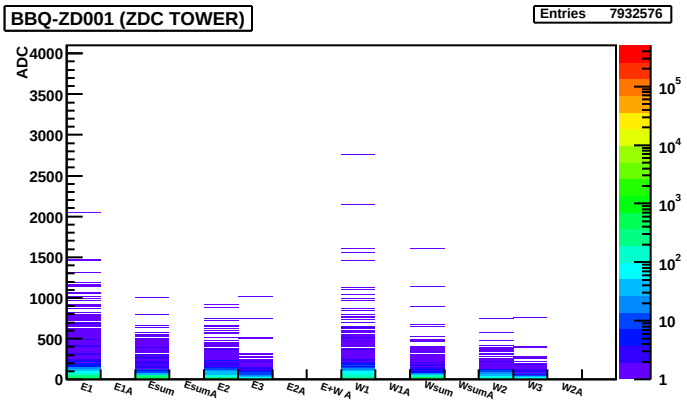

BBQ-BB001 (BBC east small tiles TAC)
Entries 7932576
TAC
QT Input Channel

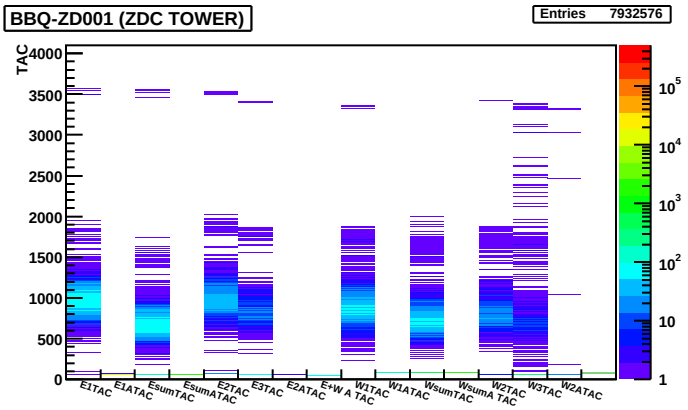

BBQ-BB002 (BBC west small tiles ADC)
Entries 7932576
ADC
QT Input Channel

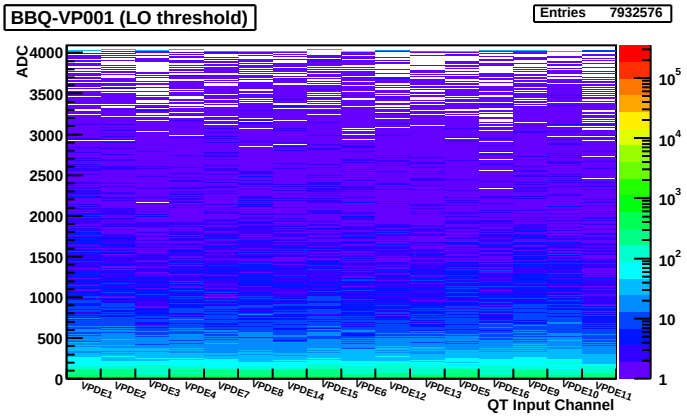

BBQ-BB002 (BBC west small tiles TAC)
Entries 7932576
TAC
QT Input Channel

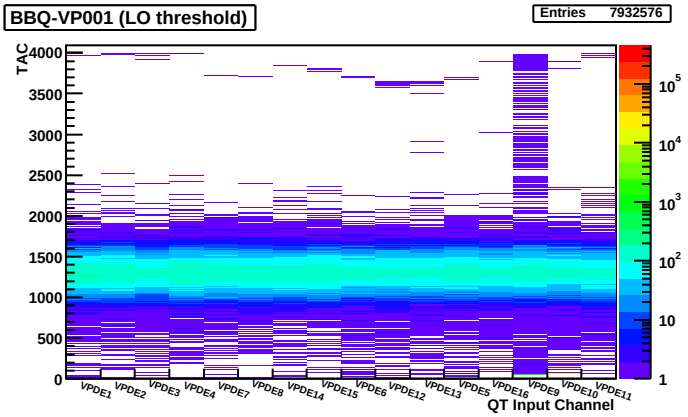

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7932576
ADC
QT Input Channel

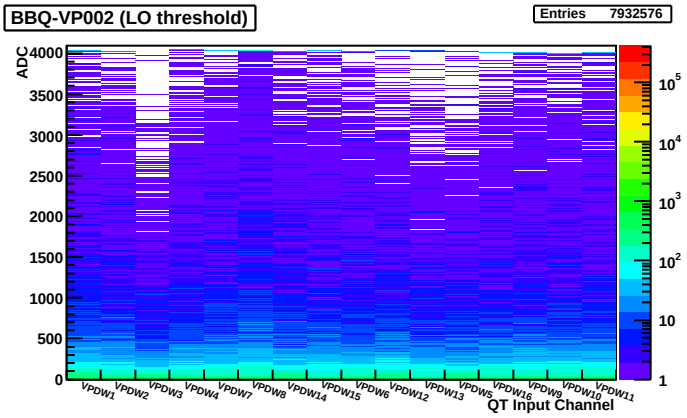

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7932576
TAC
QT Input Channel

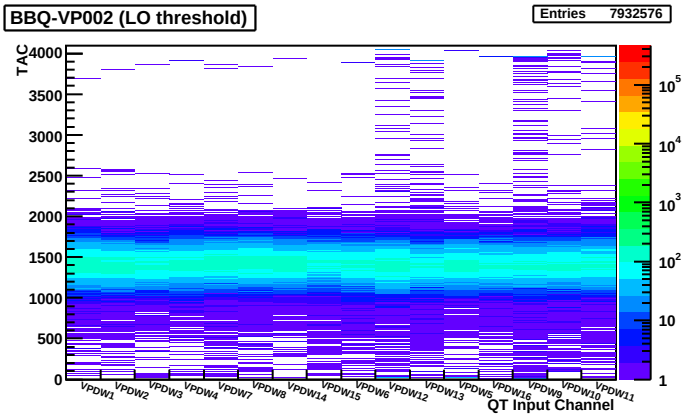

BBQ-ZD001 (ZDC TOWER)
Entries 7932576
ADC

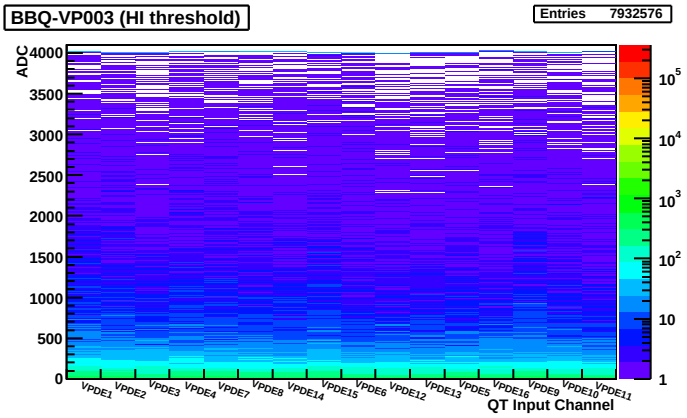

BBQ-ZD001 (ZDC TOWER)
Entries 7932576
TAC

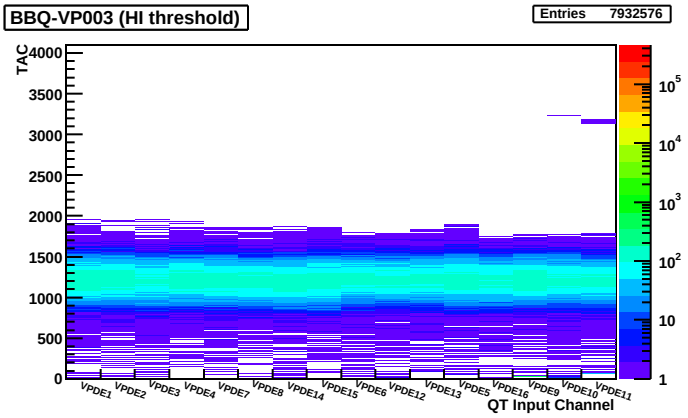

BBQ-VP001 (LO threshold)
Entries 7932576
ADC
QT Input Channel

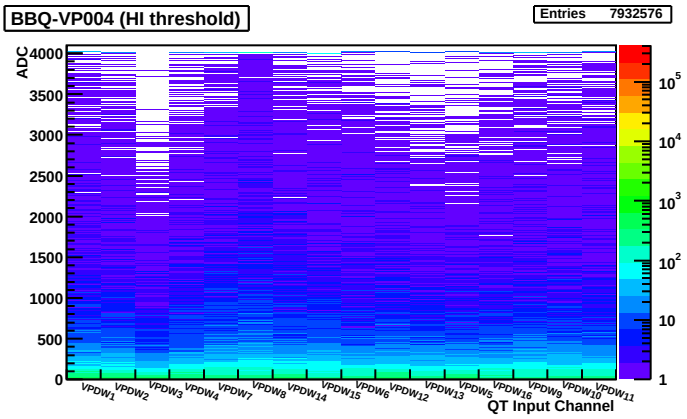

BBQ-VP001 (LO threshold)
Entries 7932576
TAC
QT Input Channel

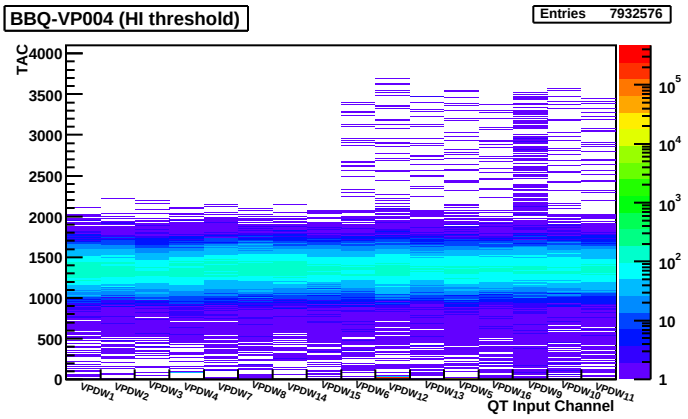

BBQ-VP002 (LO threshold)
Entries 7932576
ADC
QT Input Channel

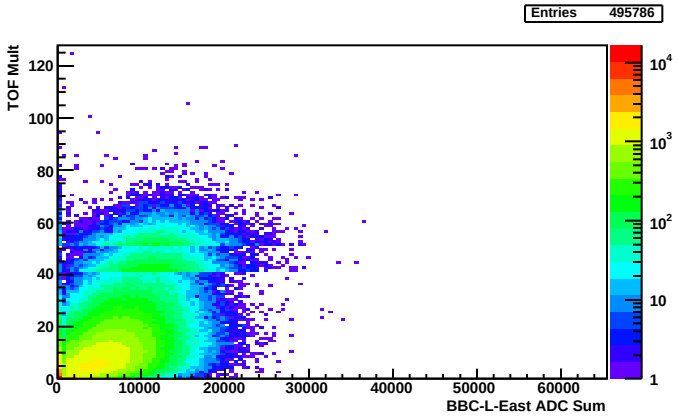

BBQ-VP002 (LO threshold)
Entries 7932576
TAC
QT Input Channel

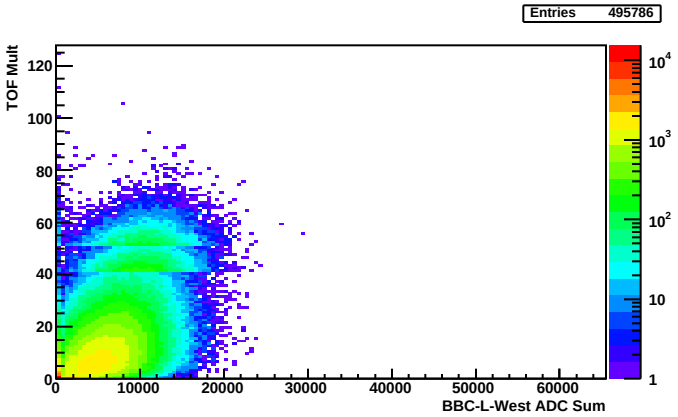

BBQ-VP003 (HI threshold)
Entries 7932576
ADC
QT Input Channel

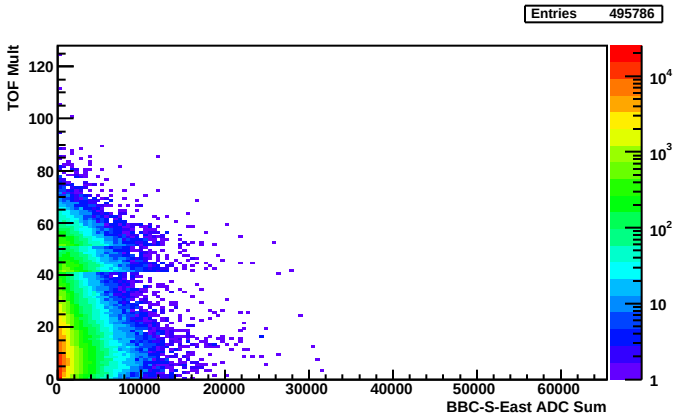

BBQ-VP003 (HI threshold)
Entries 7932576
TAC
QT Input Channel

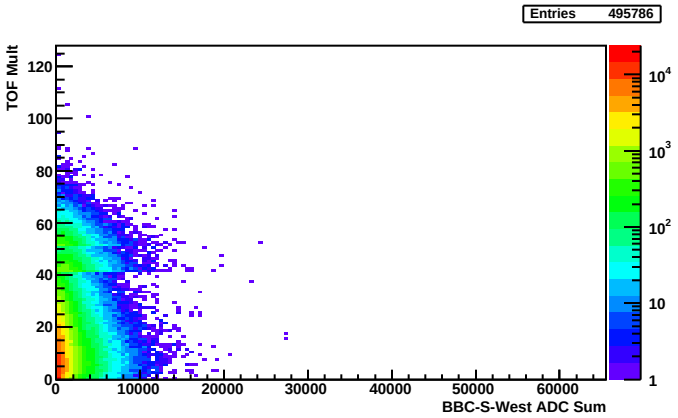

BBQ-VP004 (HI threshold)
Entries 7932576
ADC
QT Input Channel

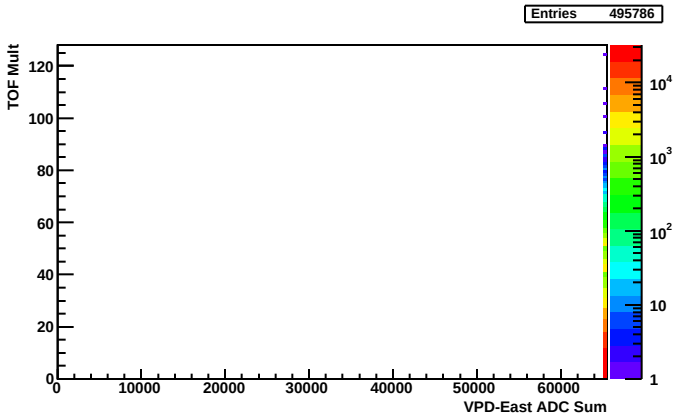

BBQ-VP004 (HI threshold)
Entries 7932576
TAC
QT Input Channel

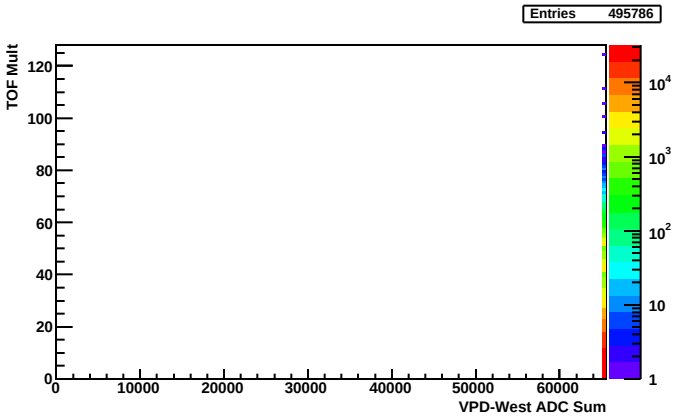

Entries 495786
TOF Mult
BBC-L-East ADC Sum

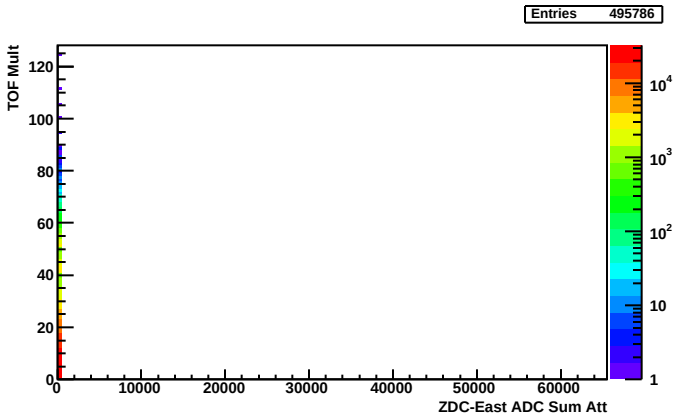

Entries 495786
TOF Mult
BBC-L-West ADC Sum

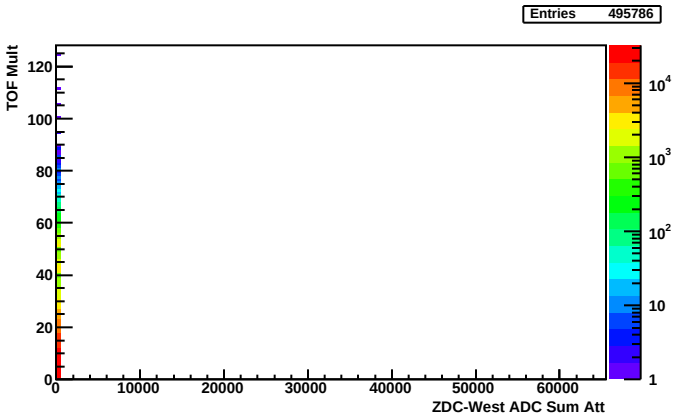

Entries 495786
TOF Mult
BBC-S-East ADC Sum

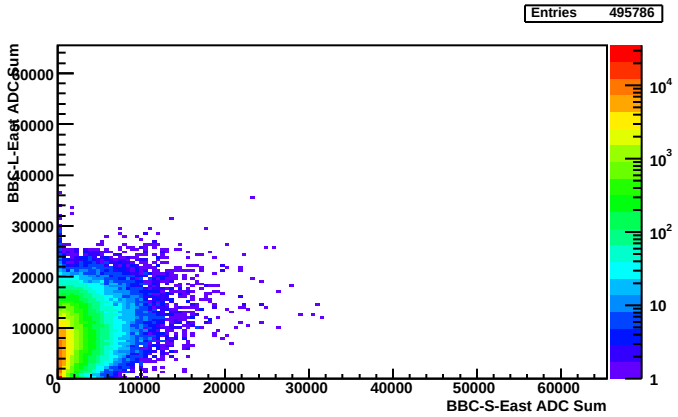

Entries 495786
TOF Mult
BBC-S-West ADC Sum

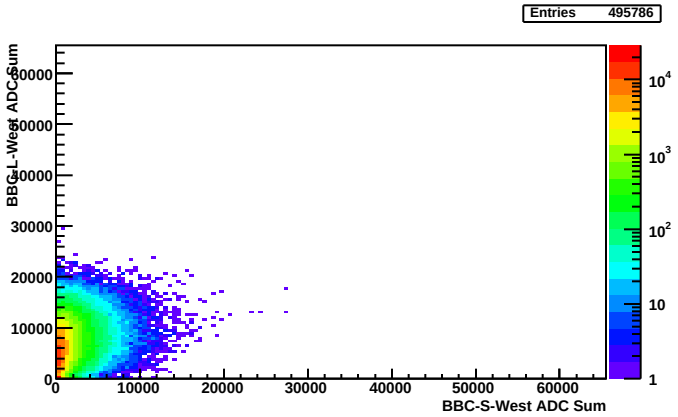

Entries 495786
TOF Mult
VPD-East ADC Sum

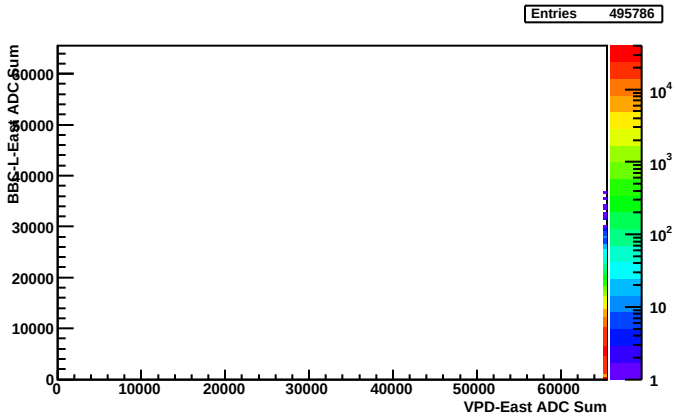

Entries 495786
TOF Mult
VPD-West ADC Sum

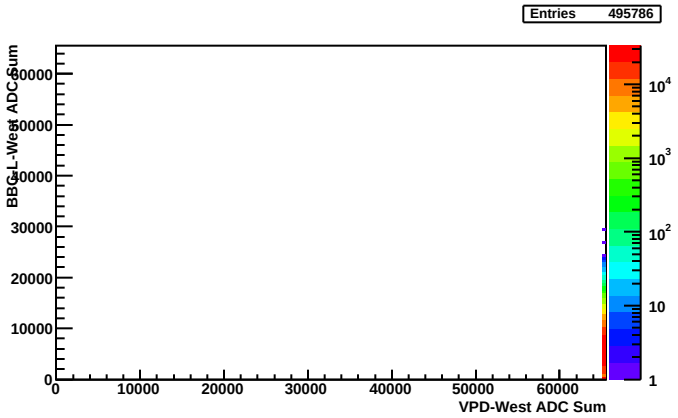

Entries 495786
TOF Mult
ZDC-East ADC Sum Att

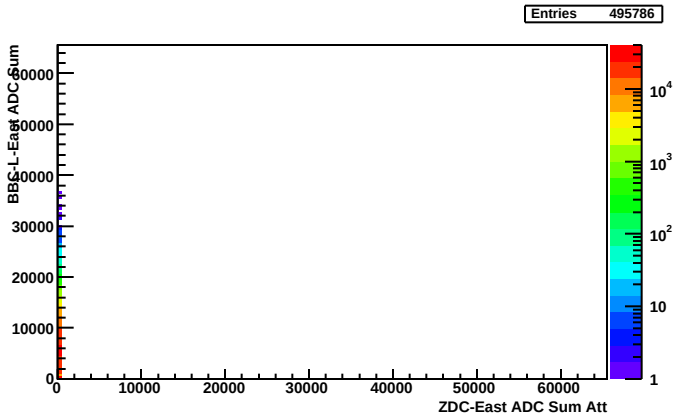

Entries 495786
TOF Mult
ZDC-West ADC Sum Att

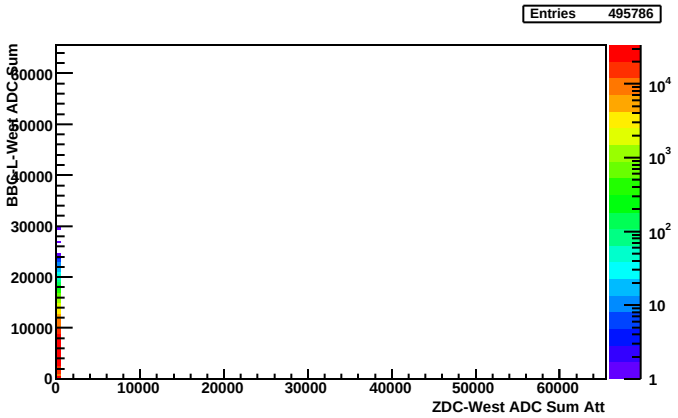

Entries 495786
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 495786
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 495786
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 495786
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 495786
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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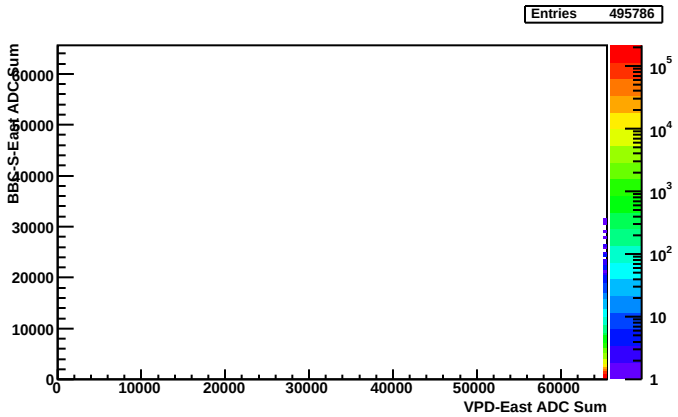
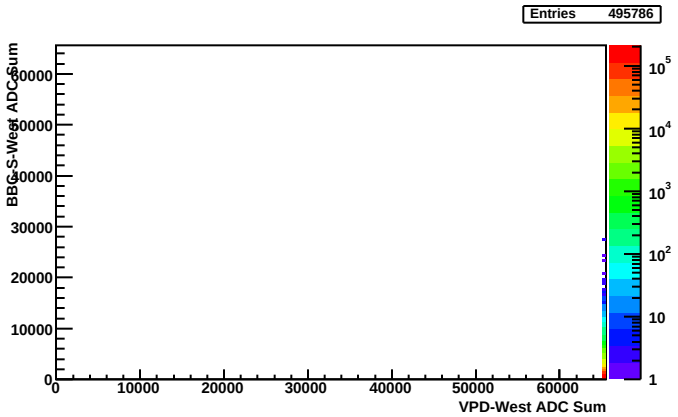
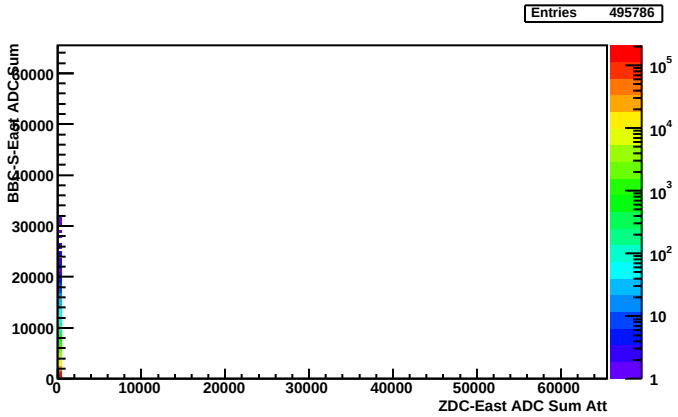
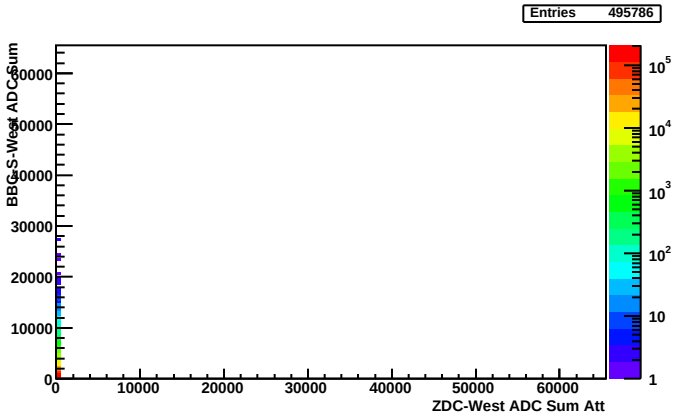
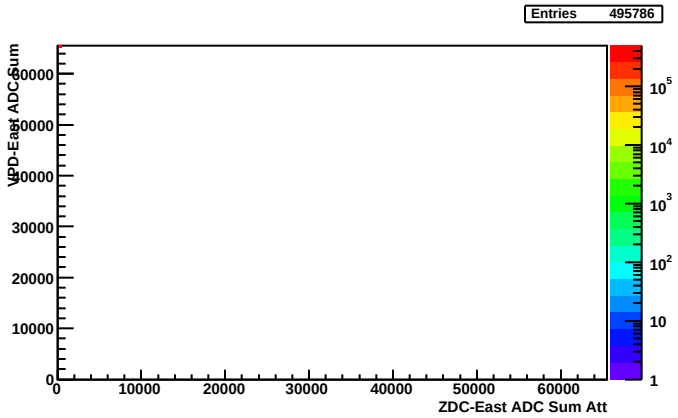
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

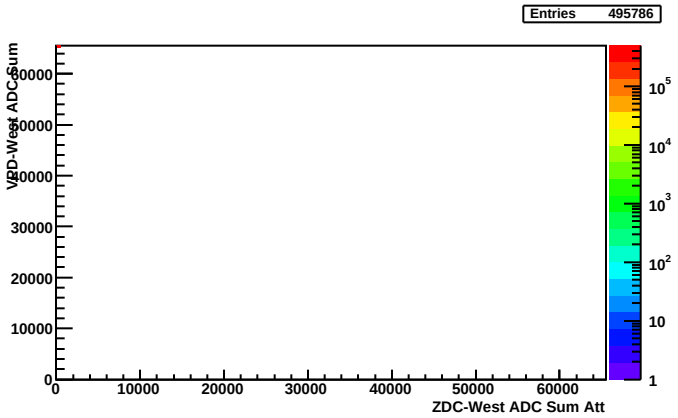

Entries 495786
BBC-S-East ADC Sum
VPD-East ADC Sum

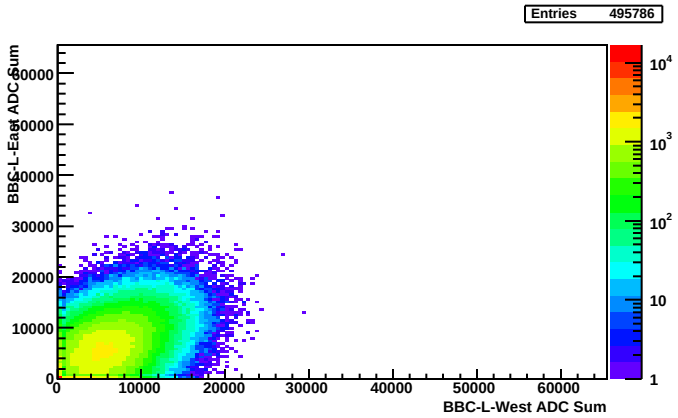

Entries 495786
BBC-S-West ADC Sum
VPD-West ADC Sum

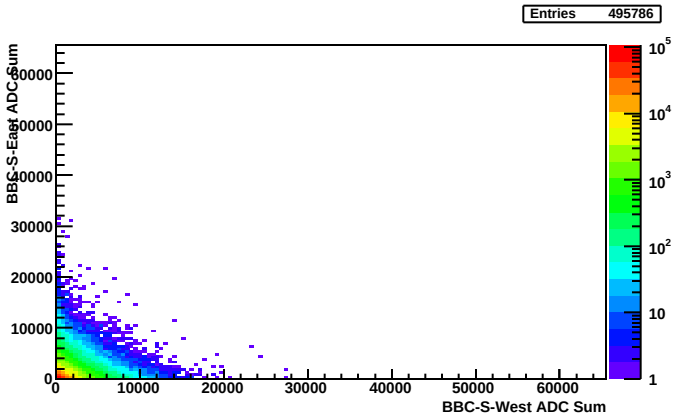

Entries 495786
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

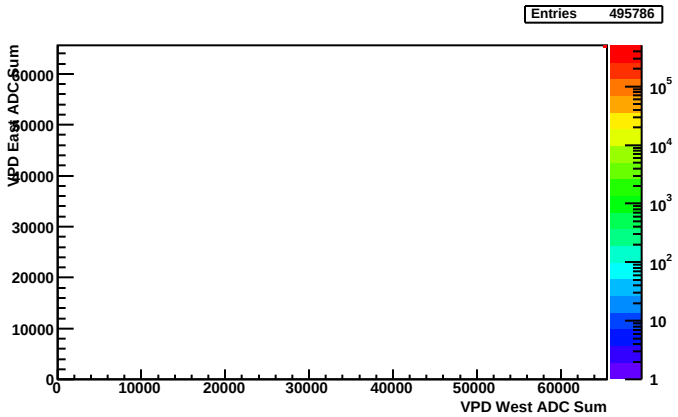

Entries 495786
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

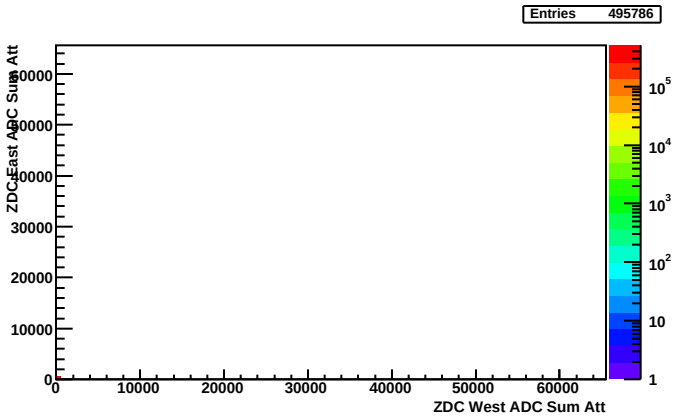

Entries 495786
VPD-East ADC Sum
ZDC-East ADC Sum Att

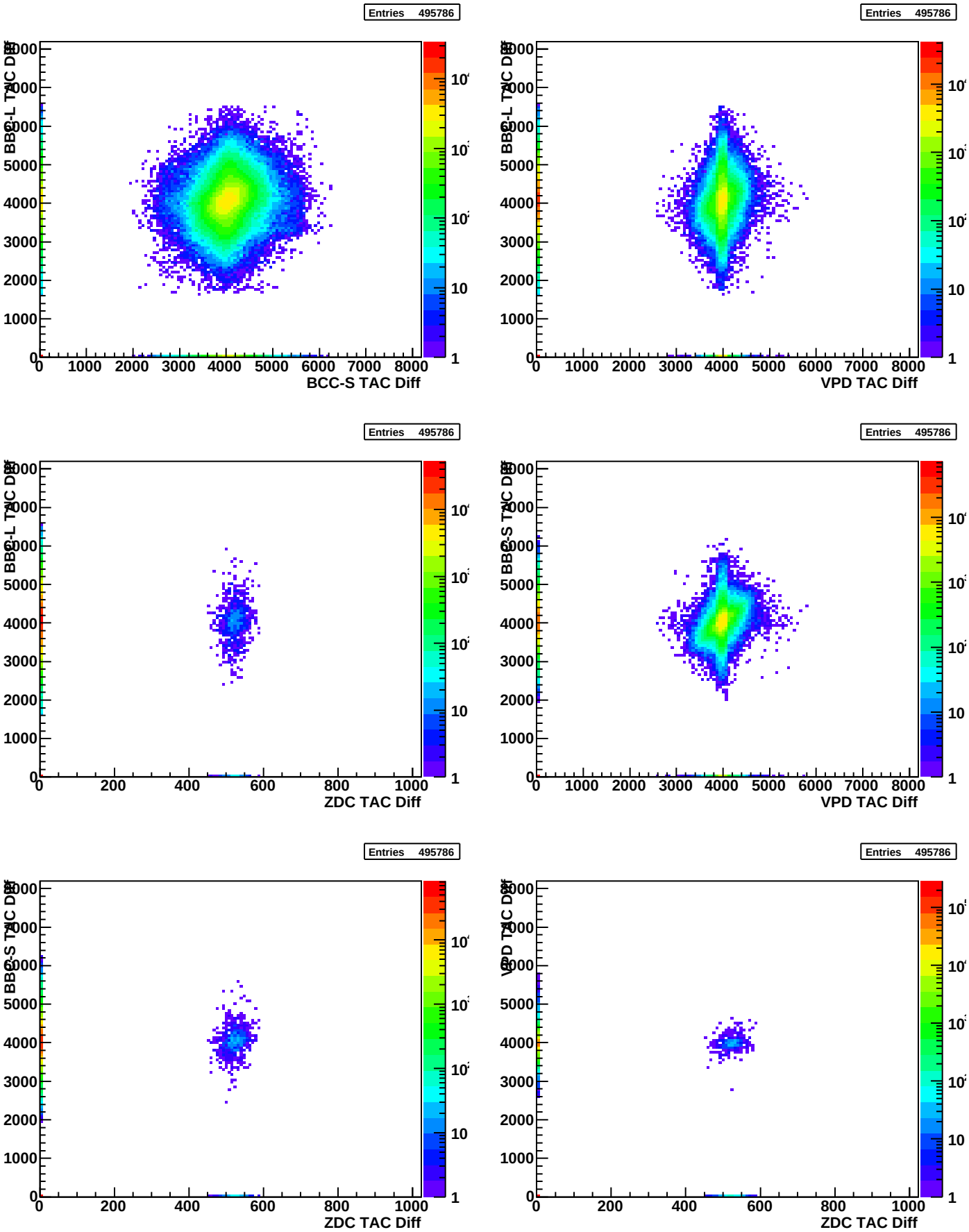

Entries 495786
VPD-West ADC Sum
ZDC-West ADC Sum Att

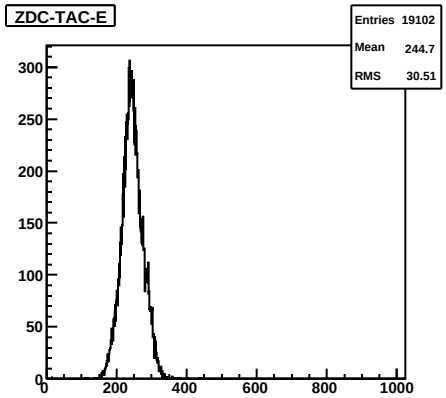

Entries 495786
BBC-L-East ADC Sum
BBC-L-West ADC Sum

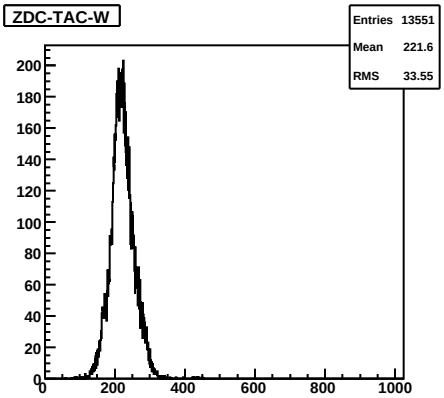

Entries 495786
BBC-S-East ADC Sum
BBC-S-West ADC Sum

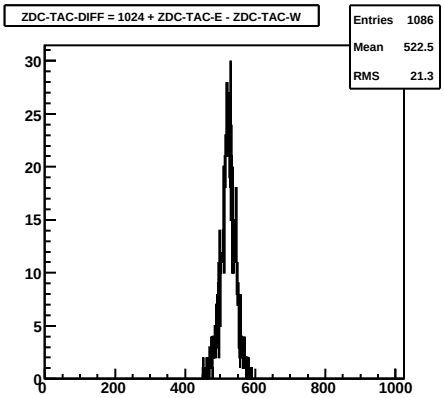

Entries 495786
VPD East ADC Sum
VPD West ADC Sum

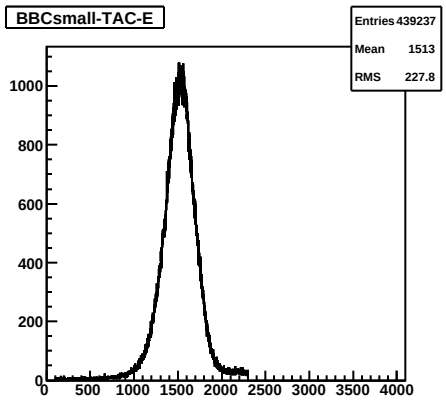

Entries 495786
ZDC East ADC Sum Att
ZDC West ADC Sum Att

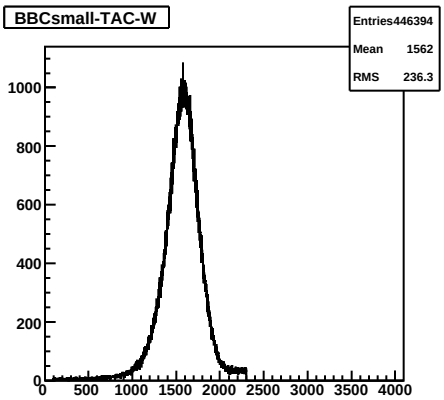

Entries 495786
BBC-L TAC Diff
BCC-S TAC Diff
Entries 495786
BBC-L TAC Diff
VPD TAC Diff
Entries 495786
BBC-L TAC Diff
ZDC TAC Diff
Entries 495786
BBC-S TAC Diff
VPD TAC Diff
Entries 495786
BBC-S TAC Diff
ZDC TAC Diff
Entries 495786
VPD TAC Diff
ZDC TAC Diff

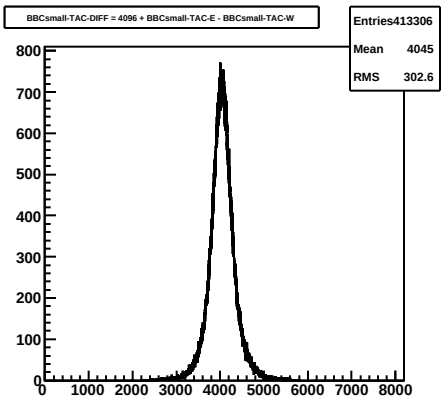

ZDC-TAC-E
Entries 19102
Mean 244.7
RMS 30.51

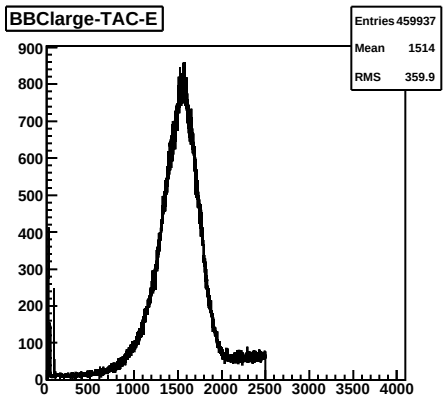

ZDC-TAC-W
Entries 13551
Mean 221.6
RMS 33.55

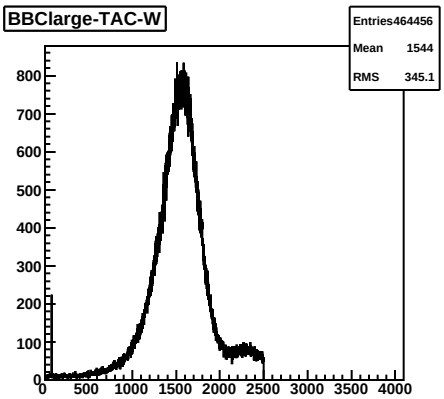

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1086
Mean 522.5
RMS 21.3

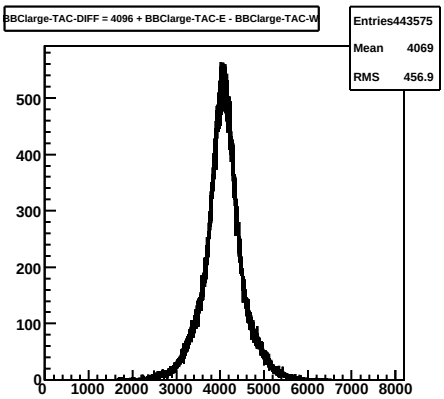

BBCsmall-TAC-E
Entries 439237
Mean 1513
RMS 227.8

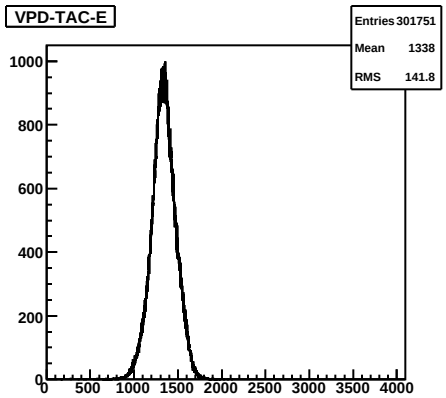

BBCsmall-TAC-W
Entries 446394
Mean 1562
RMS 236.3

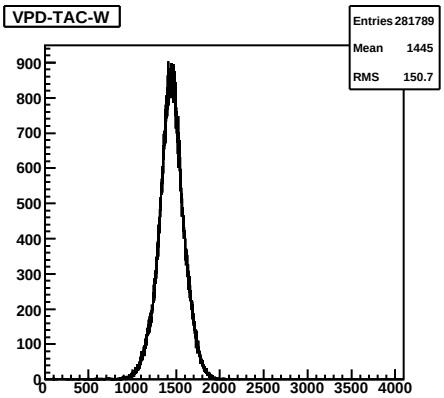

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 413306
Mean 4045
RMS 302.6

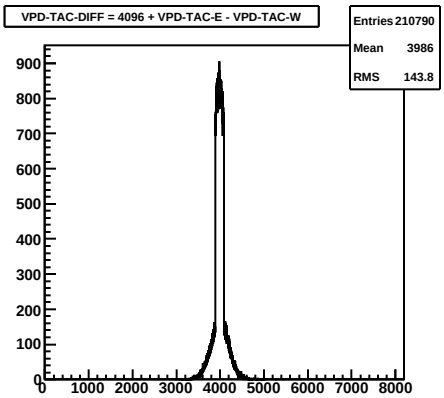

BBClarge-TAC-E
Entries 459937
Mean 1514
RMS 359.9

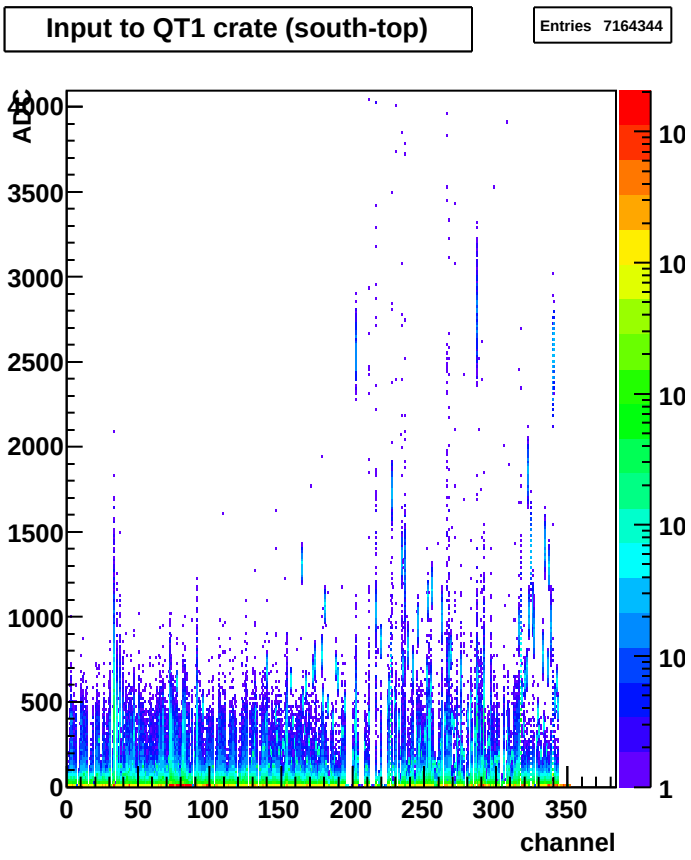

BBClarge-TAC-W
Entries 464456
Mean 1544
RMS 345.1

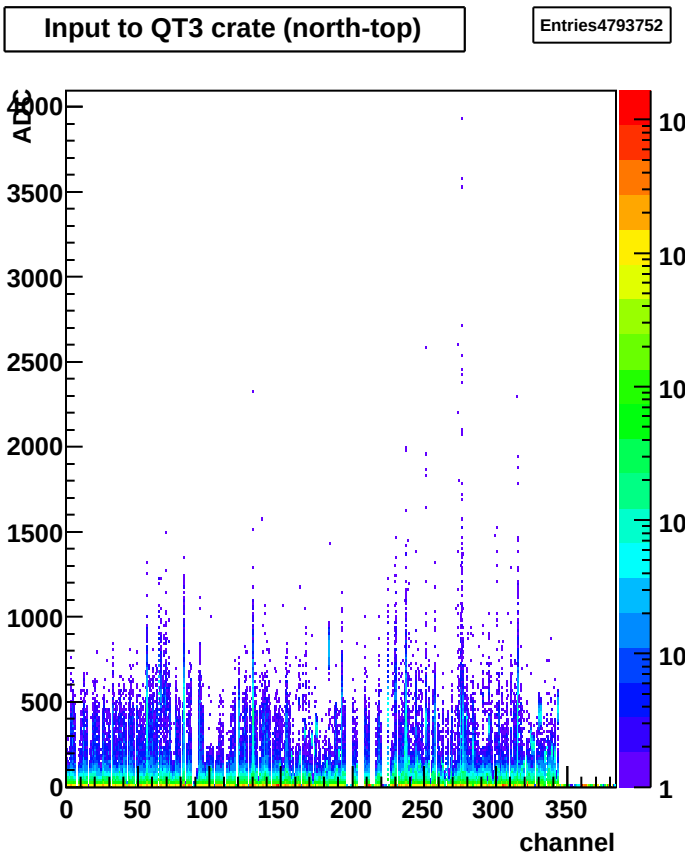

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 443575
Mean 4069
RMS 456.9

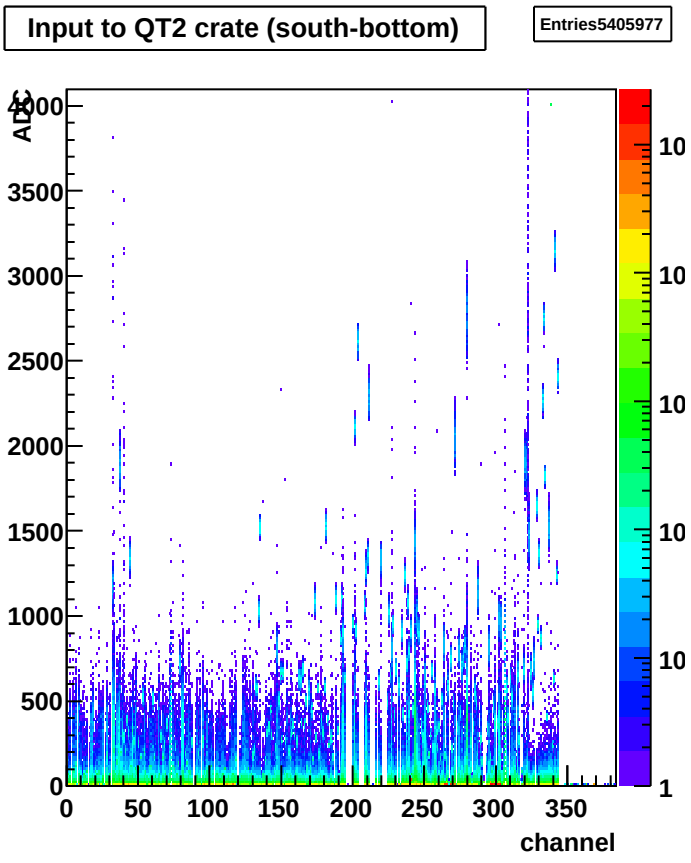

VPD-TAC-E
Entries 301751
Mean 1338
RMS 141.8

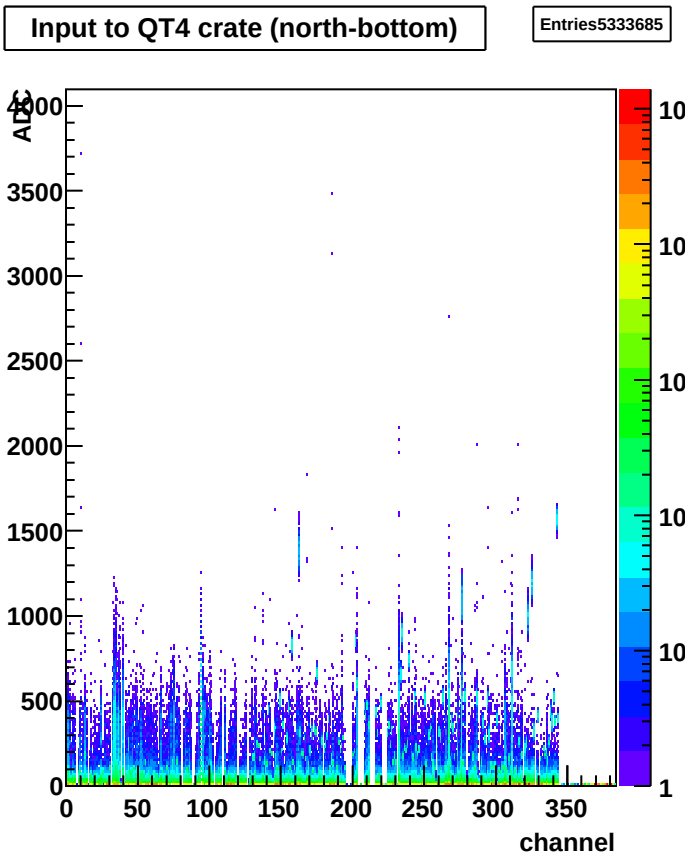

VPD-TAC-W
Entries 281789
Mean 1445
RMS 150.7

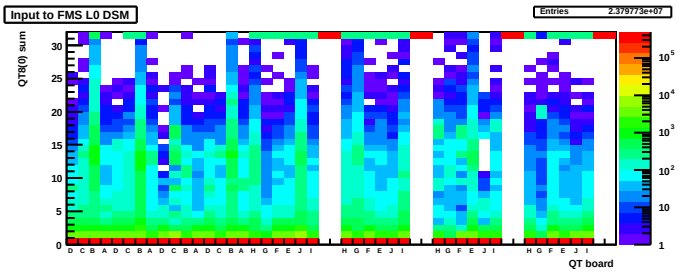

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 210790
Mean 3986
RMS 143.8

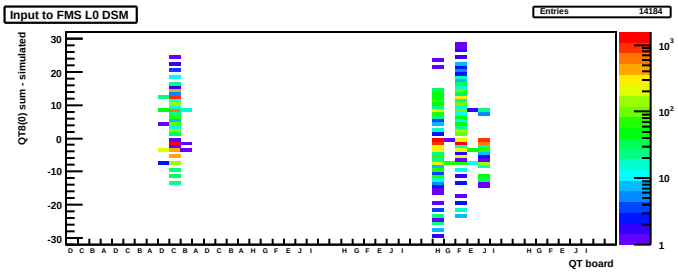

Input to QT1 crate (south-top)
Entries 7164344
ADC
channel

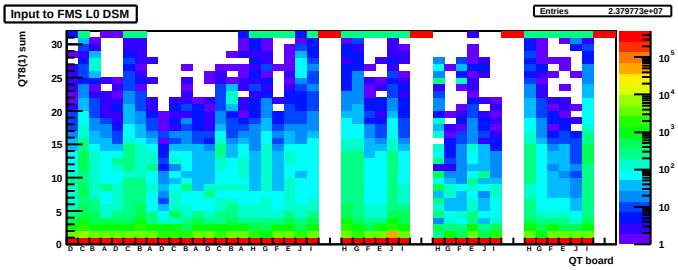

Input to QT3 crate (north-top)
Entries4793752
ADC
channel

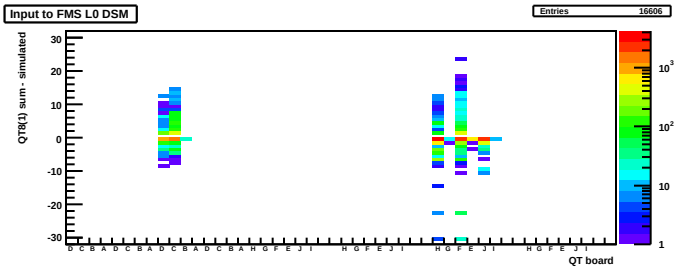

Input to QT2 crate (south-bottom)
Entries5405977
ADC
channel

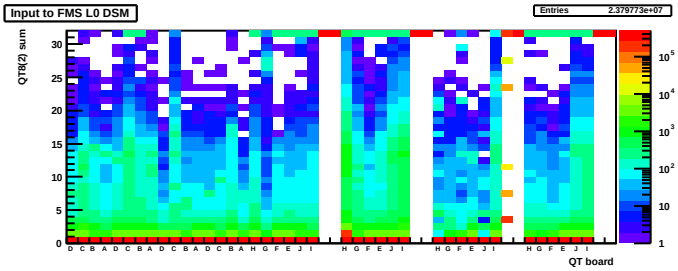

Input to QT4 crate (north-bottom)
Entries5333685
ADC
channel

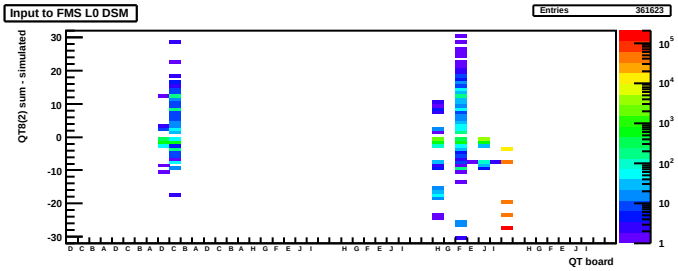

Input to FMS L0 DSM
Entries 2.379773e+07
QT8(0) sum
QT board

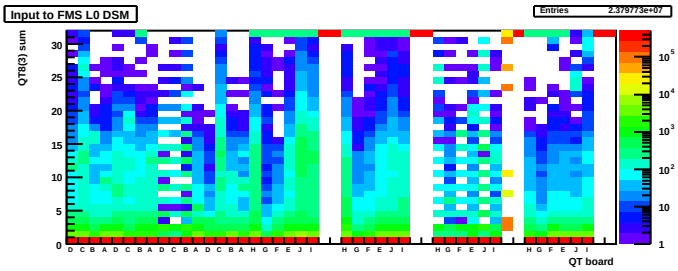

Input to FMS L0 DSM
Entries 14184
QT8(0) sum - simulated
QT board

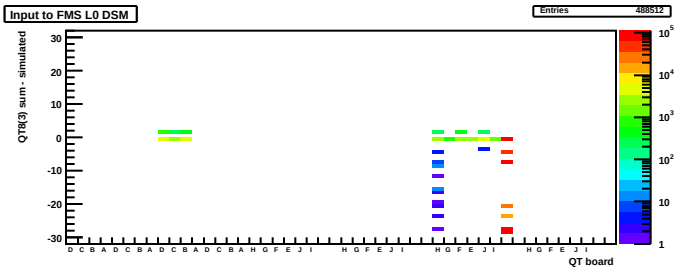

Input to FMS L0 DSM
Entries 2.379773e+07
QT8(1) sum
QT board

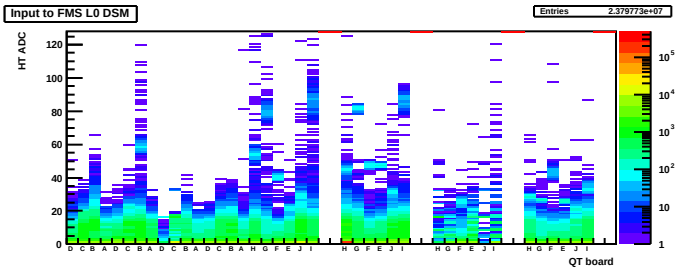

Input to FMS L0 DSM
Entries 16606
QT8(1) sum - simulated
QT board

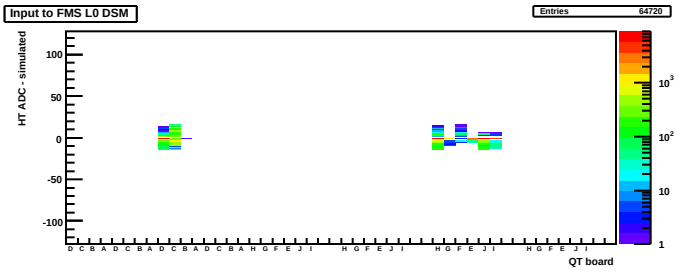

Input to FMS L0 DSM
Entries 2.379773e+07
QT8(2) sum
QT board

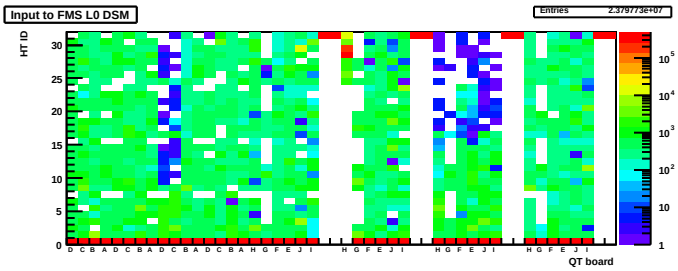

Input to FMS L0 DSM
Entries 361623
QT8(2) sum - simulated
QT board

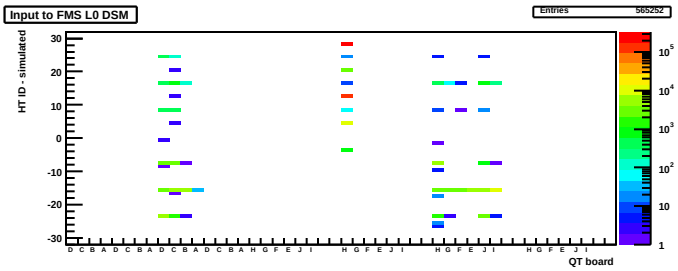

Input to FMS L0 DSM
Entries 2.379773e+07
QT8(3) sum
QT board

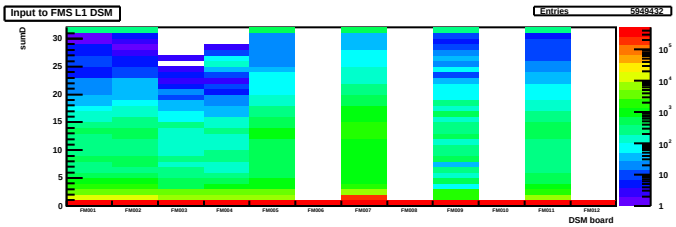

Input to FMS L0 DSM
Entries 488512
QT8(3) sum - simulated
QT board

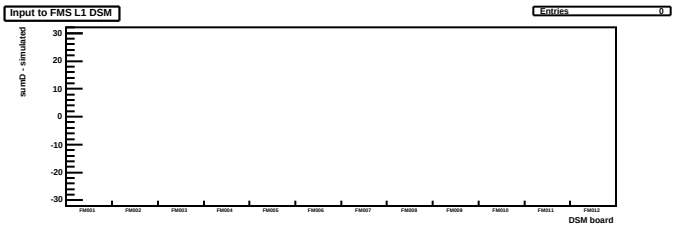

Input to FMS L0 DSM
Entries 2.379773e+07
HT ADC
QT board

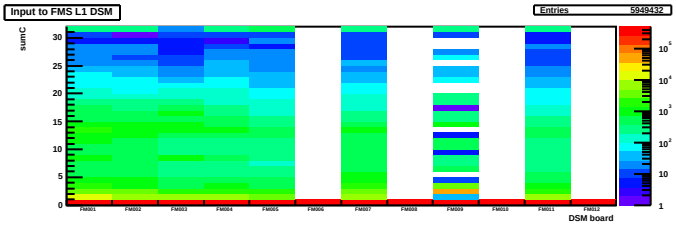

Input to FMS L0 DSM
Entries 64720
HT ADC - simulated
QT board

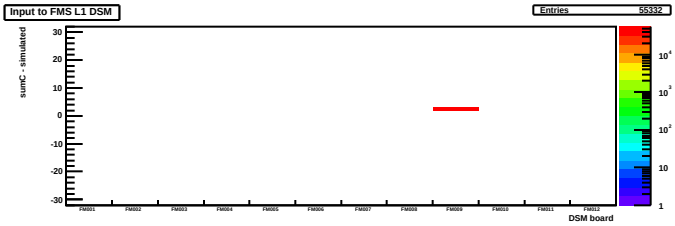

Input to FMS L0 DSM
Entries 2.379773e+07
HT ID
QT board

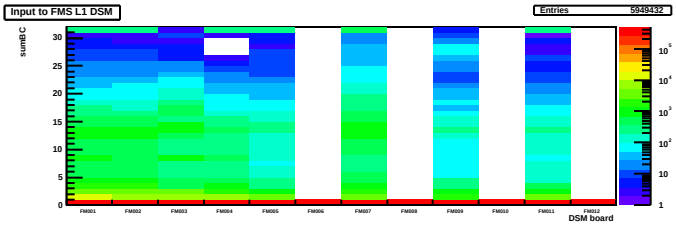

Input to FMS L0 DSM
Entries 565252
HT ID - simulated
QT board

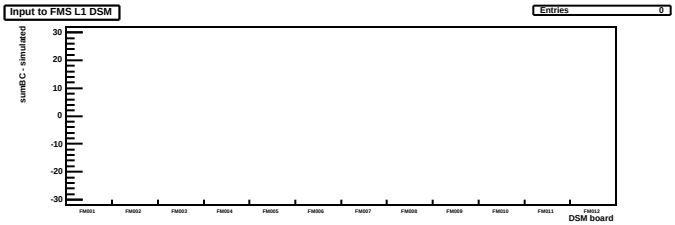

Input to FMS L1 DSM
Entries 5949432
sumD
DSM board

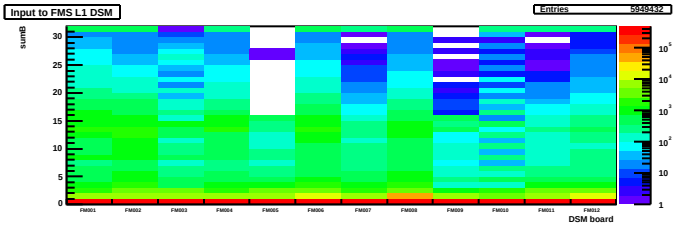

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

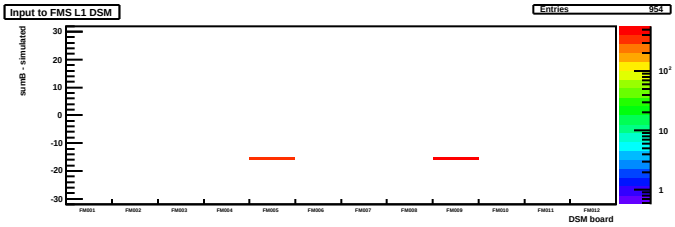

Input to FMS L1 DSM
Entries 5949432
sumC
DSM board

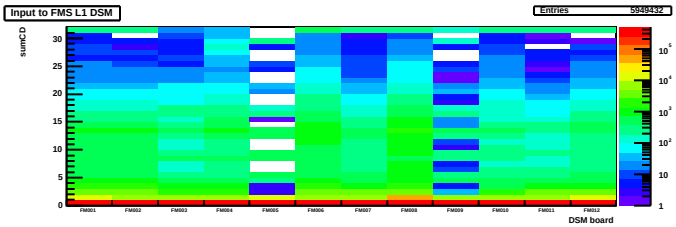

Input to FMS L1 DSM
Entries 55332
sumC - simulated
DSM board

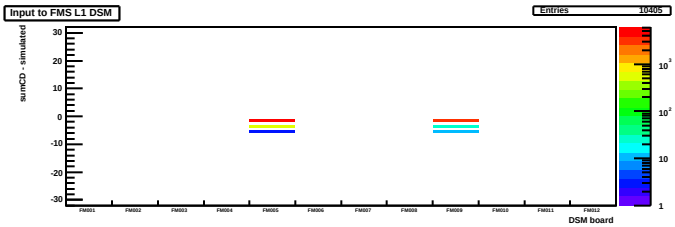

Input to FMS L1 DSM
Entries 5949432
sumBC
DSM board

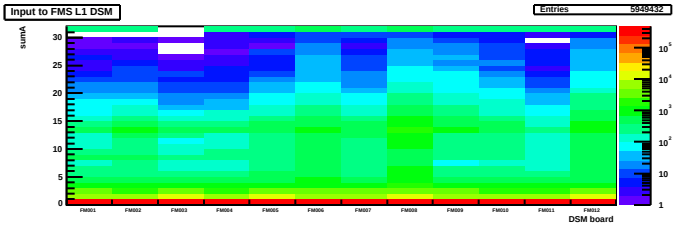

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

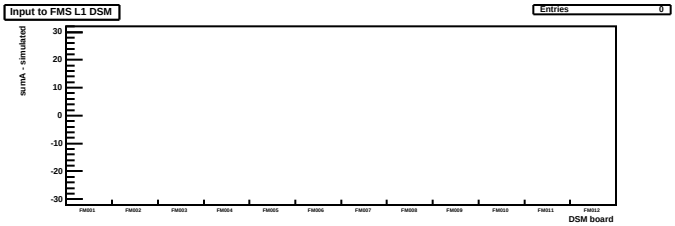

Input to FMS L1 DSM
Entries 5949432
sumB
DSM board

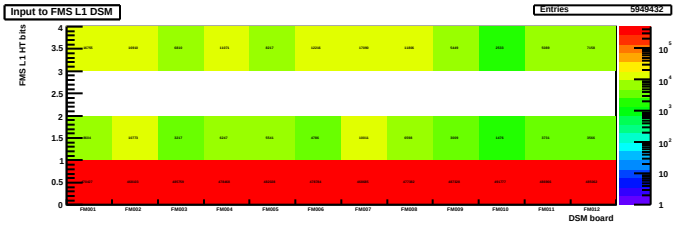

Input to FMS L1 DSM
Entries 954
sumB - simulated
DSM board

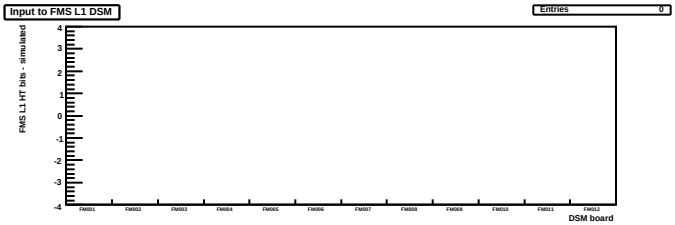

Input to FMS L1 DSM
Entries 5949432
sumCD
DSM board

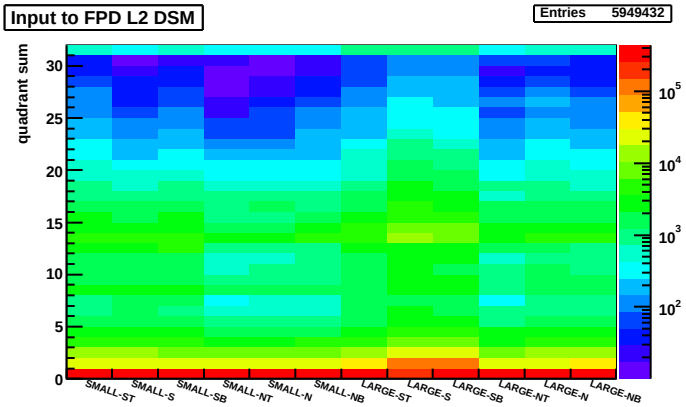

Input to FMS L1 DSM
Entries 10405
sumCD - simulated
DSM board

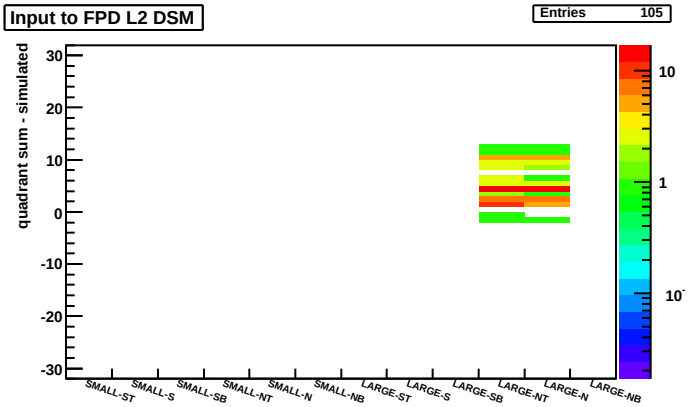

Input to FMS L1 DSM
Entries 5949432
sumA
DSM board

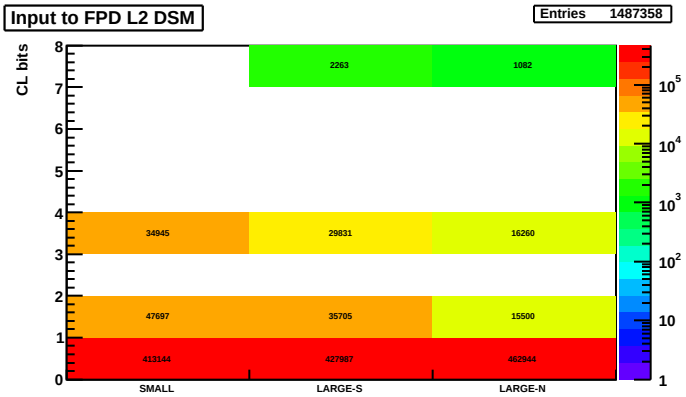

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

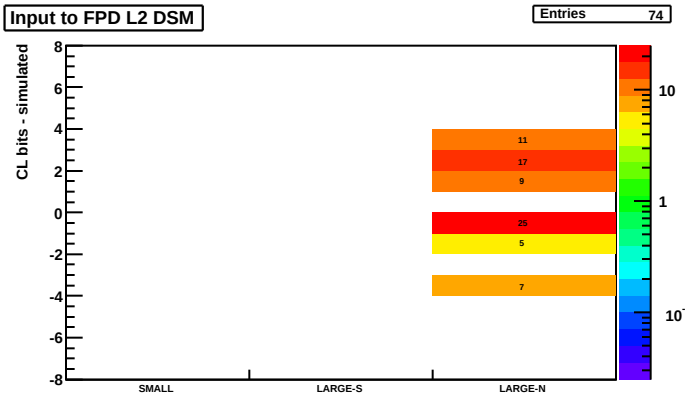

Input to FMS L1 DSM
Entries 5949432
FMS L1 HT bits
DSM board

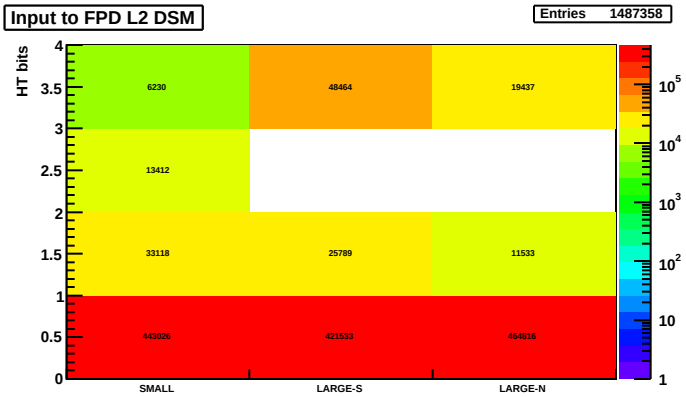

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

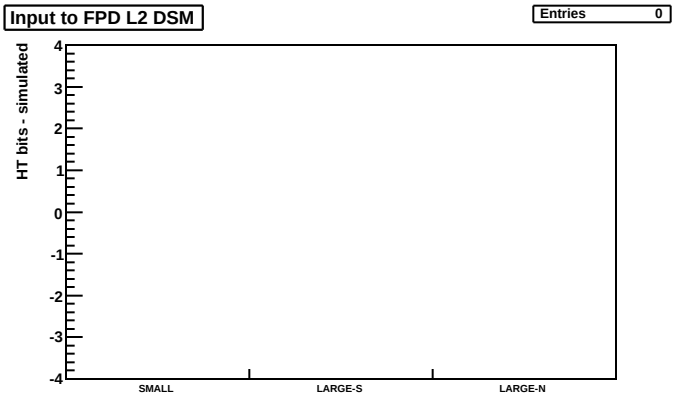

Input to FPD L2 DSM
Entries 5949432
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

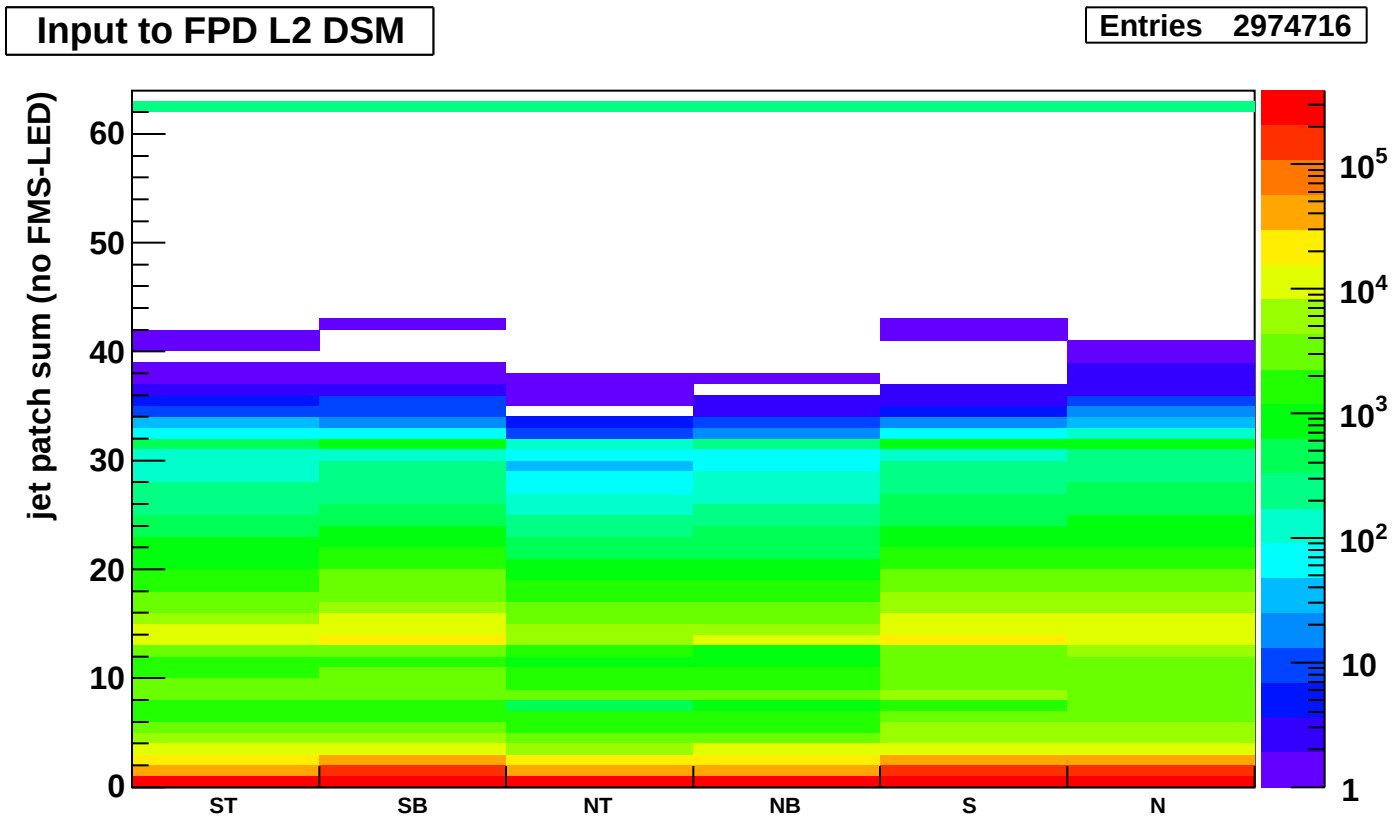

Input to FPD L2 DSM
Entries 105
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

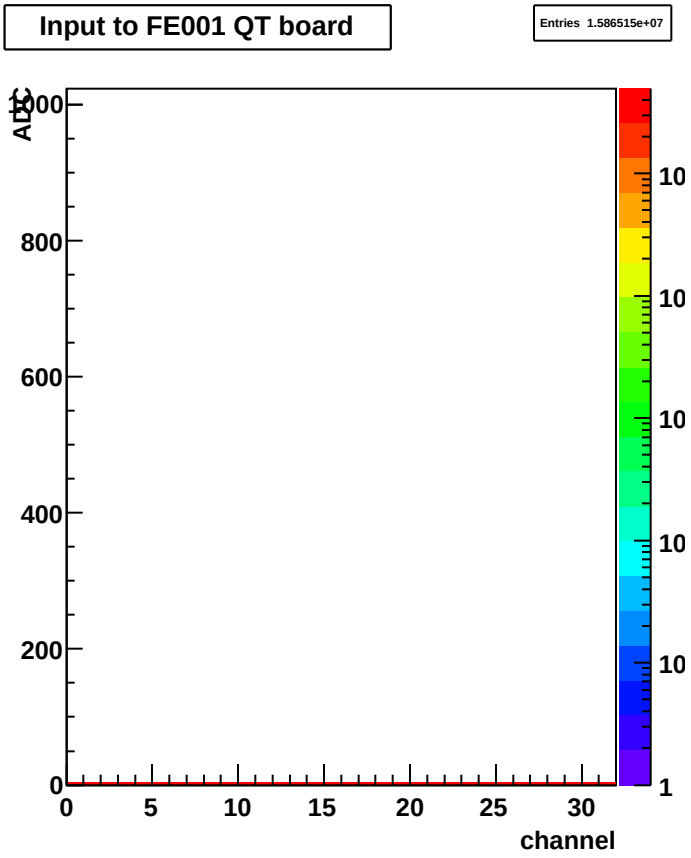

Input to FPD L2 DSM
Entries 1487358
CL bits
2263
1082
34945
29831
16260
47697
35705
15500
413144
427987
462944
SMALL
LARGE-S
LARGE-N

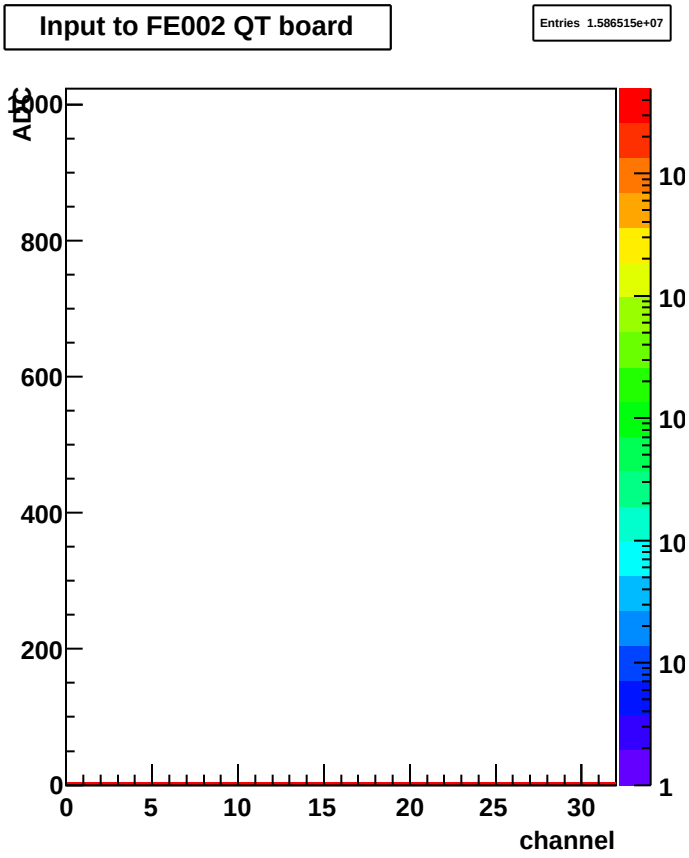

Input to FPD L2 DSM
Entries 74
CL bits - simulated
11
17
9
25
5
7
SMALL
LARGE-S
LARGE-N

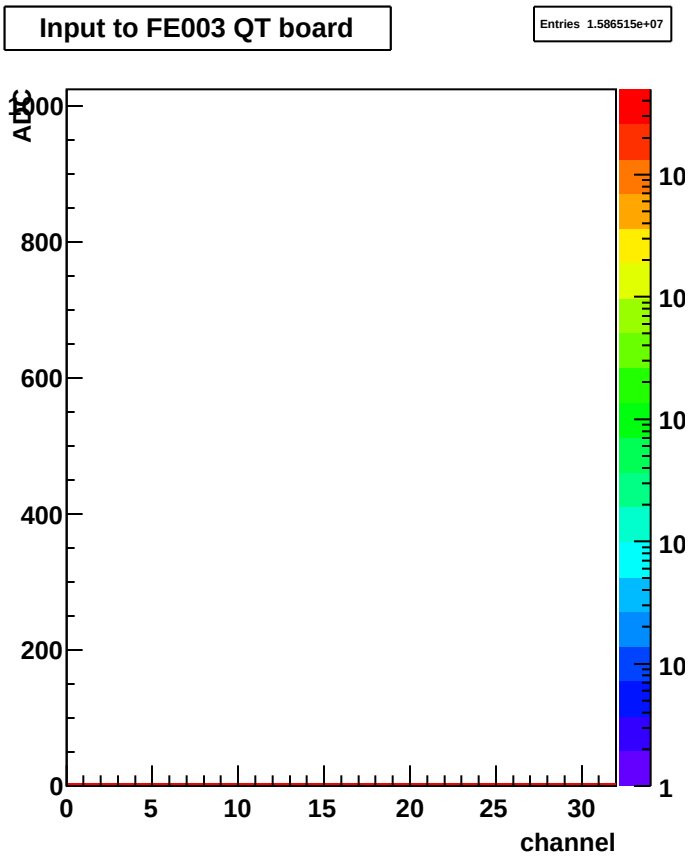

Input to FPD L2 DSM
Entries 1487358
HT bits
6230
48464
19437
13412
33118
25789
11533
443026
421533
464816
SMALL
LARGE-S
LARGE-N

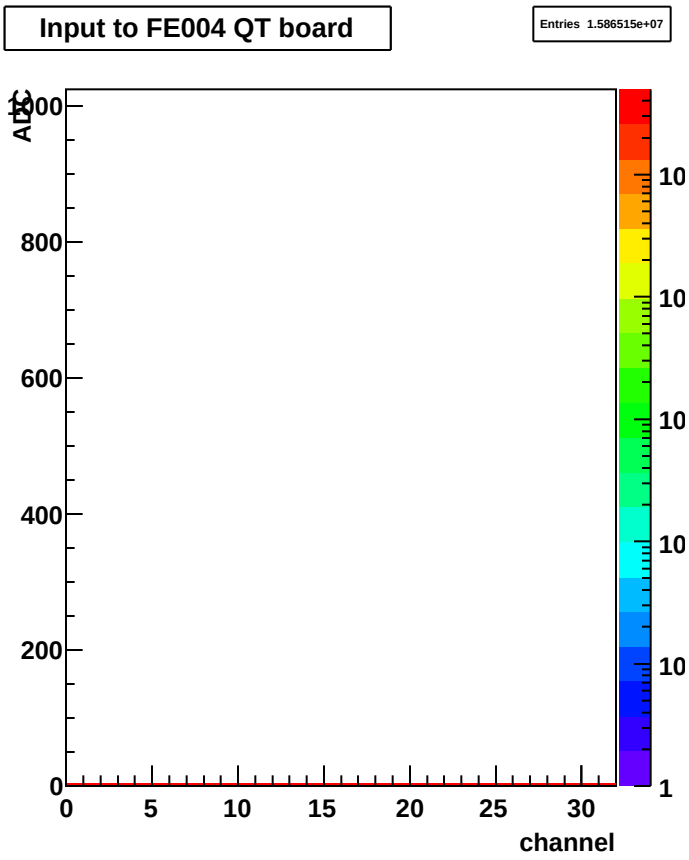

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

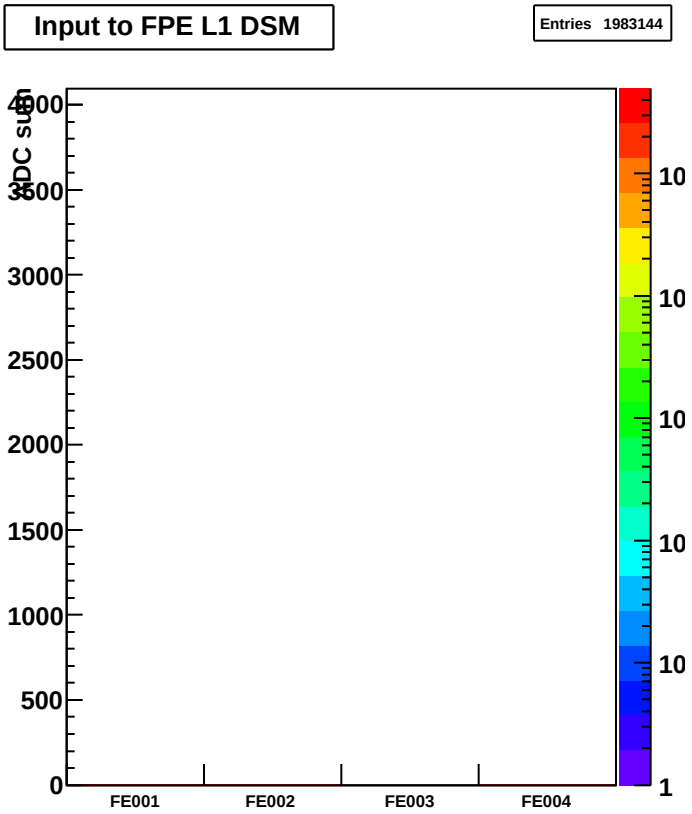

Input to FPD L2 DSM
Entries 2974716
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

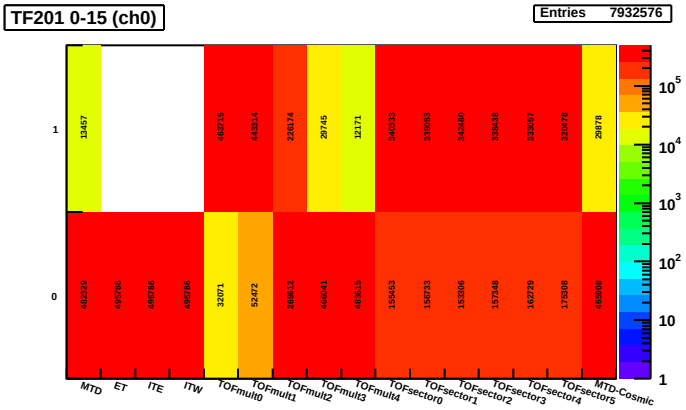

Input to FE001 QT board
Entries 1.586515e+07
ADC
channel

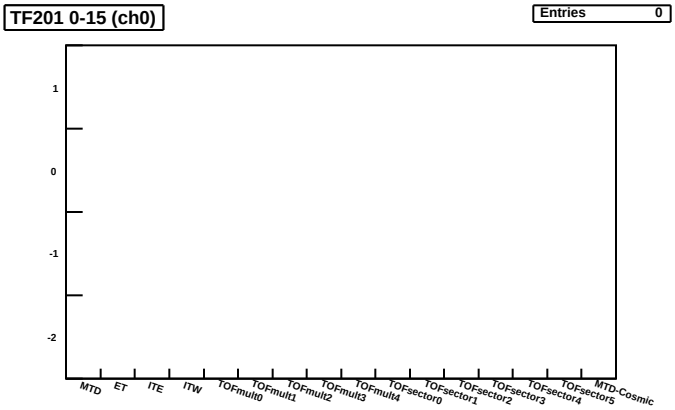

Input to FE002 QT board
Entries 1.586515e+07
ADC
channel

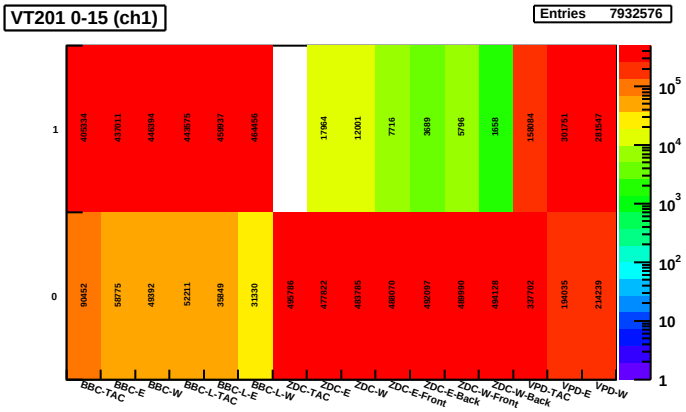

Input to FE003 QT board
Entries 1.586515e+07
ADC
channel

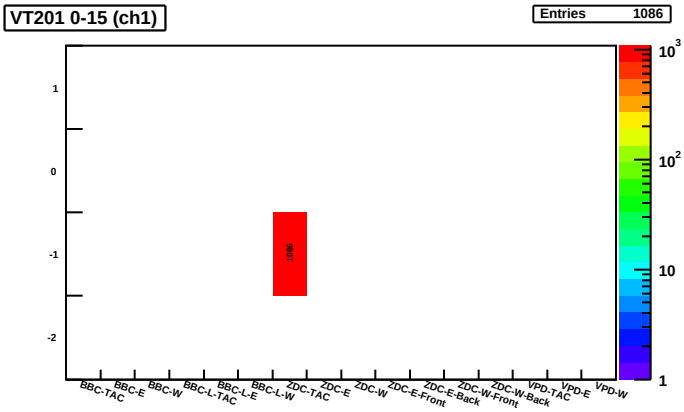

Input to FE004 QT board
Entries 1.586515e+07
ADC
channel

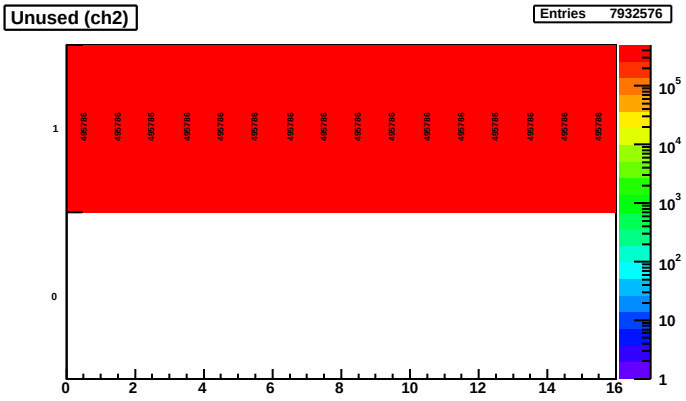

Input to FPE L1 DSM
Entries 1983144
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 7932576
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 7932576
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 1086
1086
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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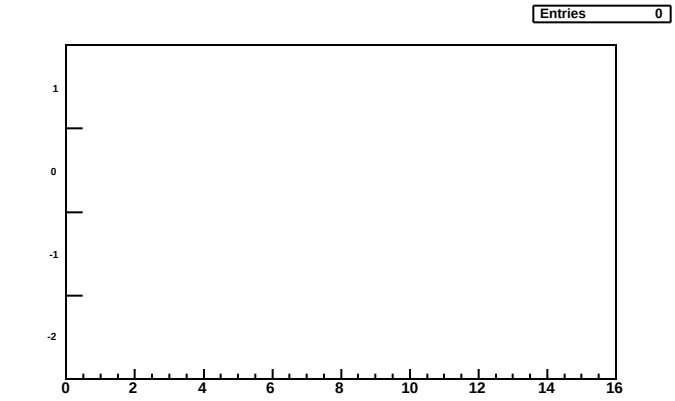
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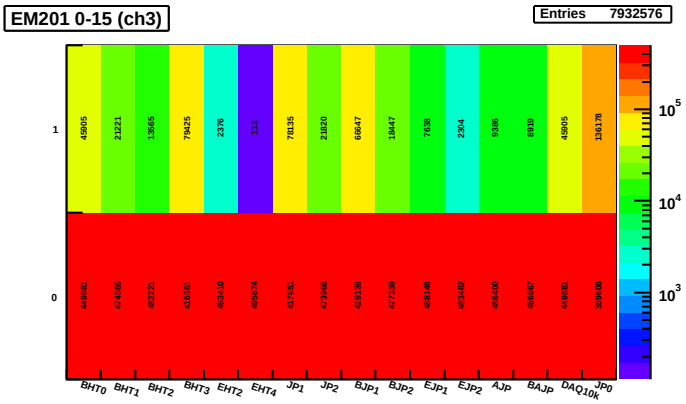
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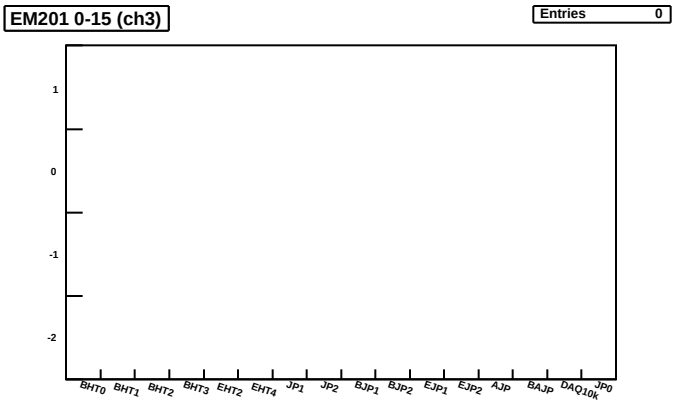
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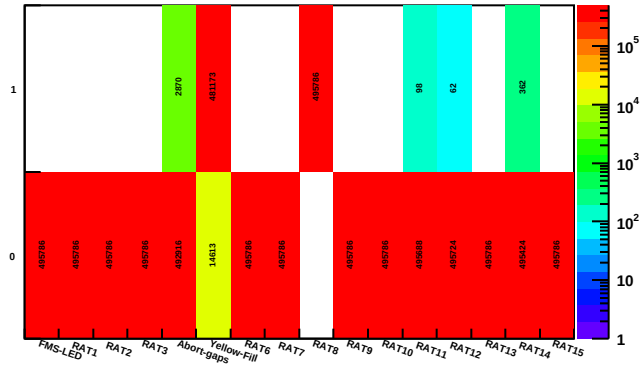
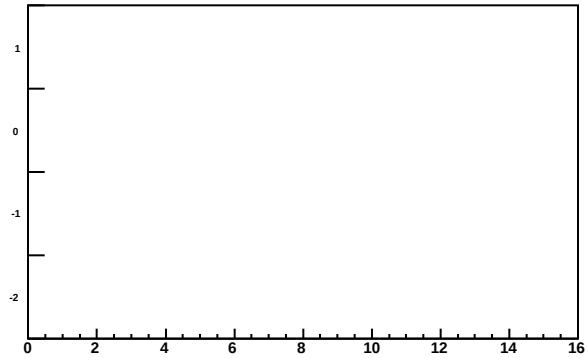
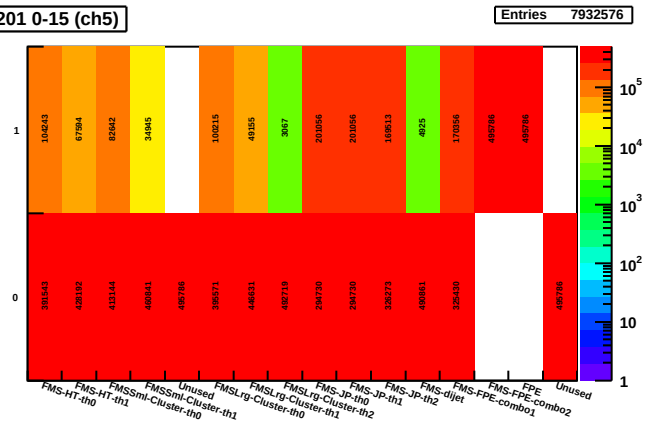
RAT board (ch4)





FP201 0-15 (ch5)



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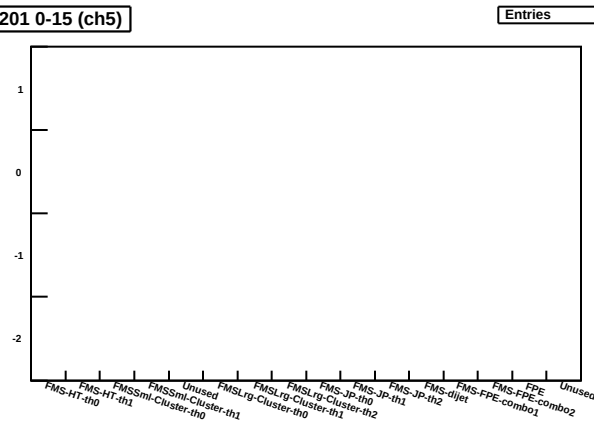
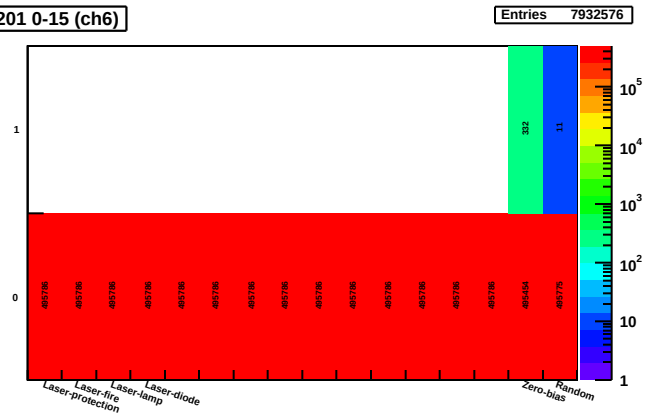
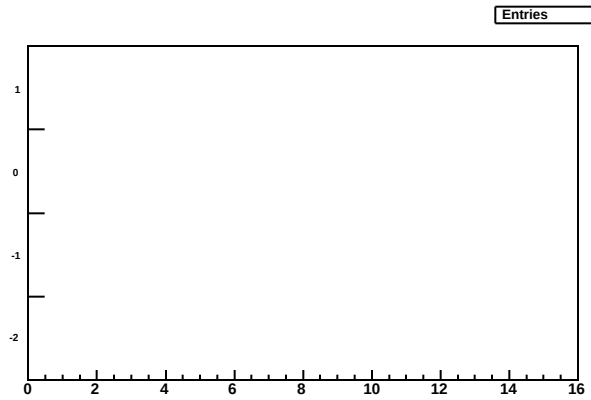
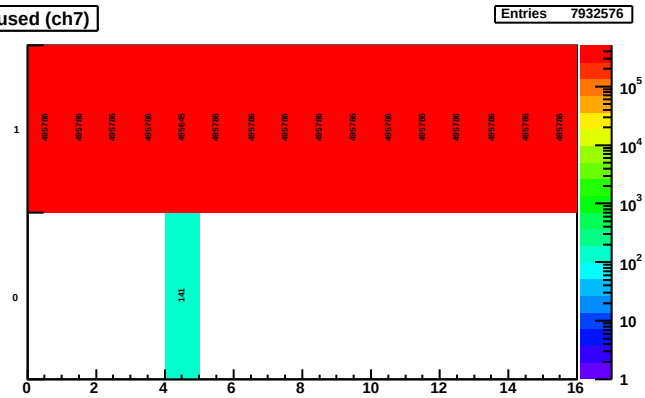
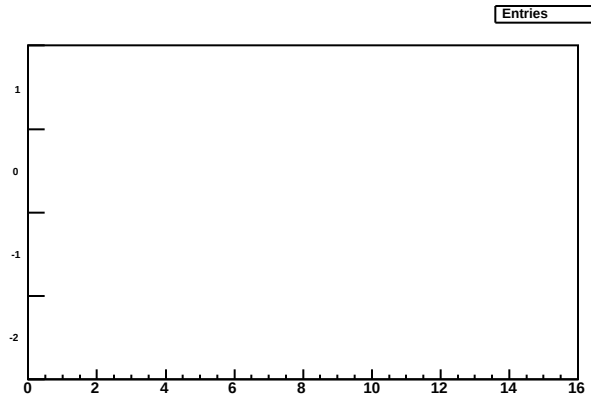


ST201 0-15 (ch6)





Unused (ch7)