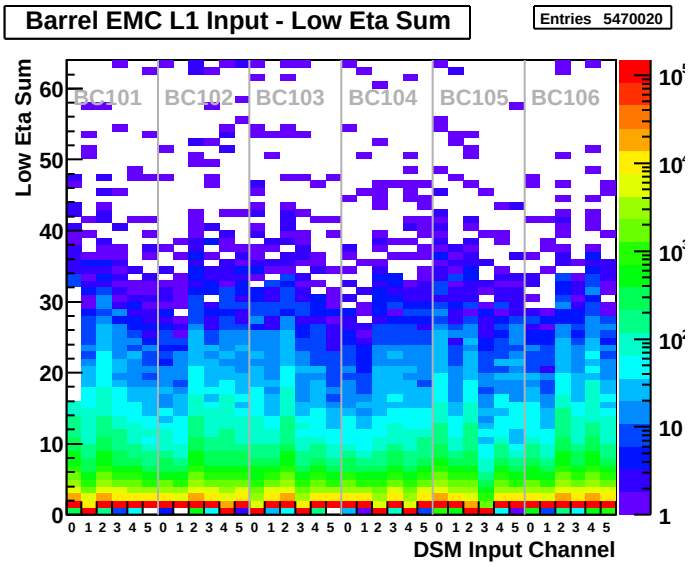
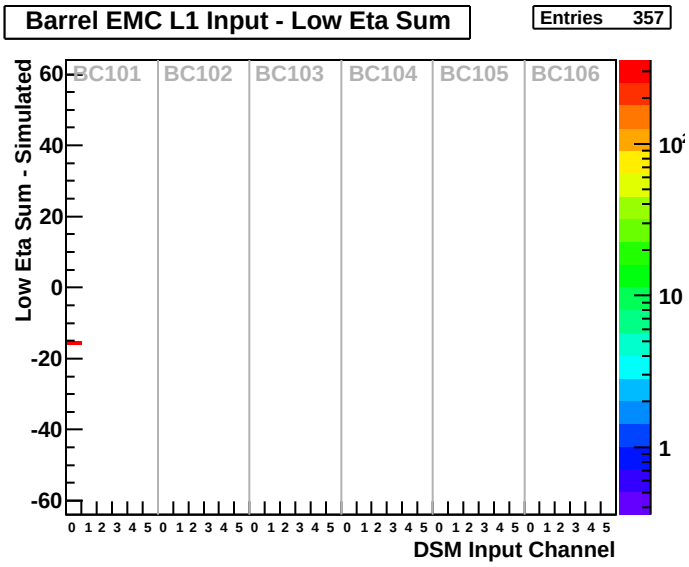
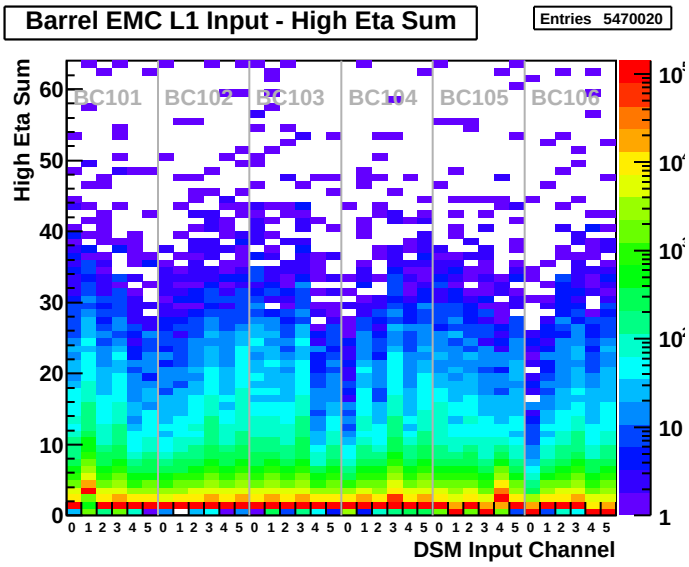
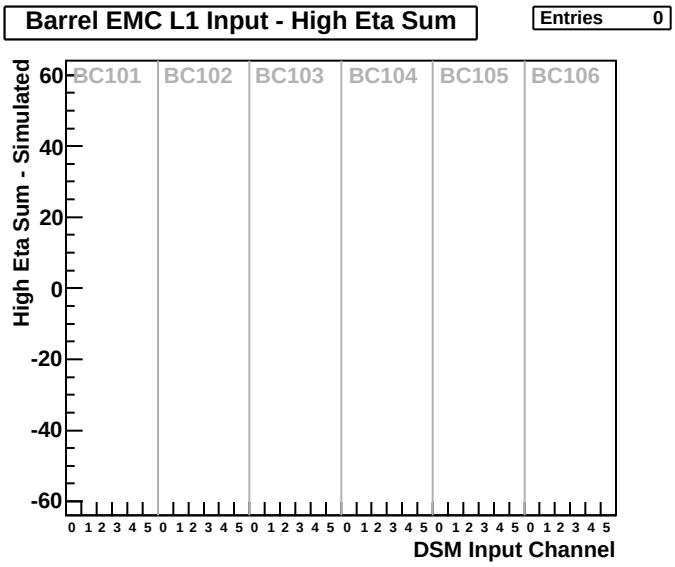
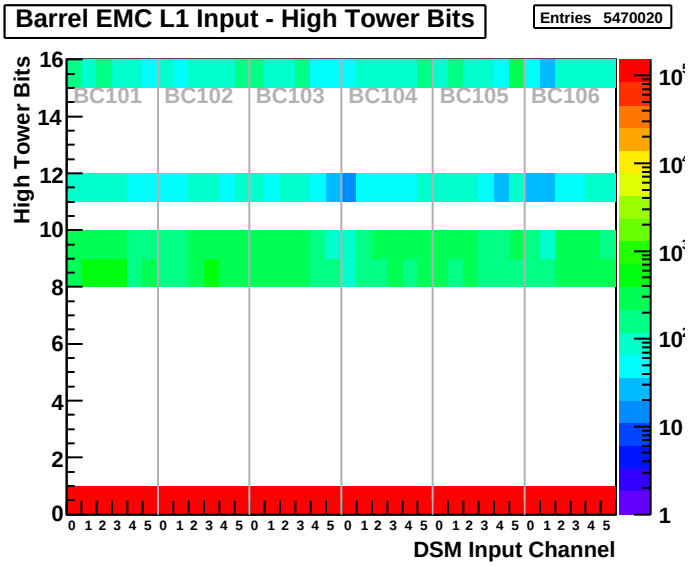
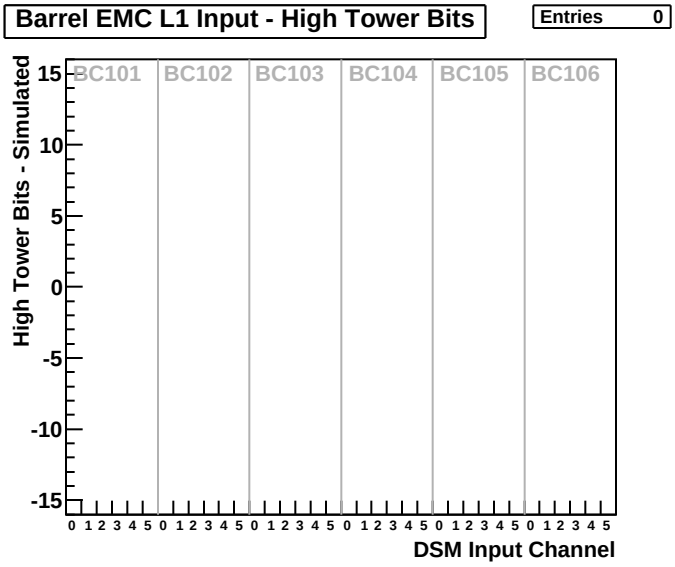

Barrel EMC L1 Input - Low Eta Sum
Entries 5470020
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

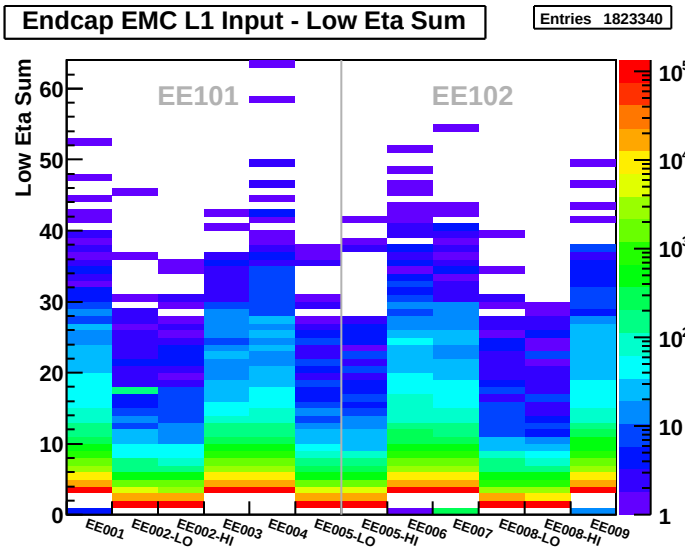

Barrel EMC L1 Input - Low Eta Sum
Entries 357
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

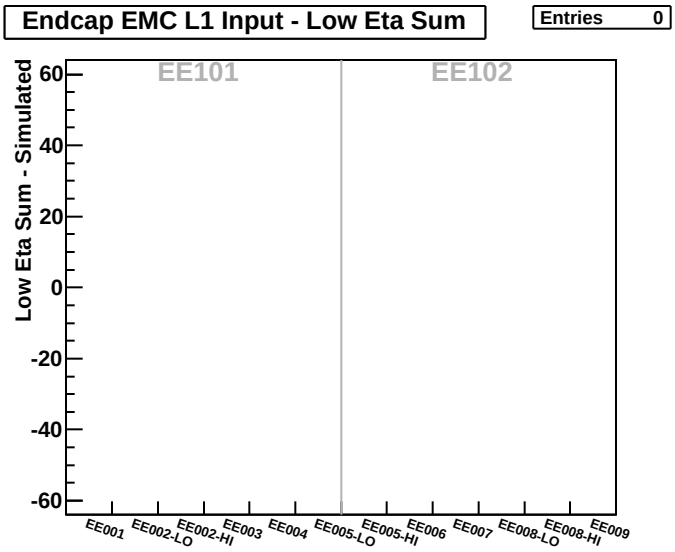

Barrel EMC L1 Input - High Eta Sum
Entries 5470020
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

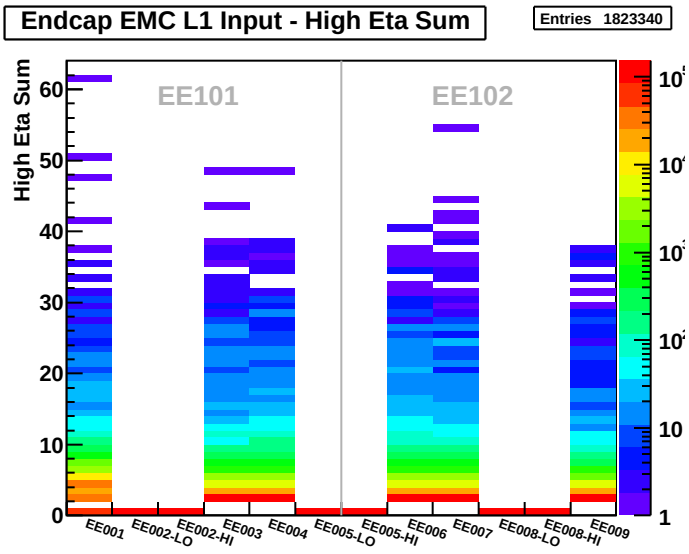

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

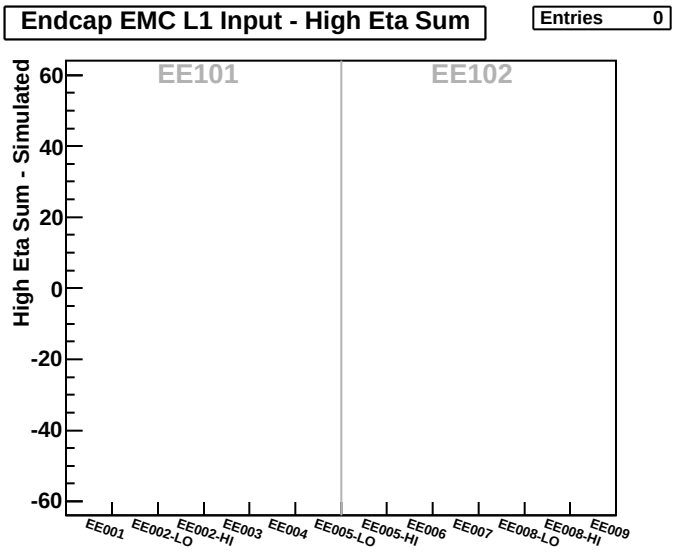

Barrel EMC L1 Input - High Tower Bits
Entries 5470020
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

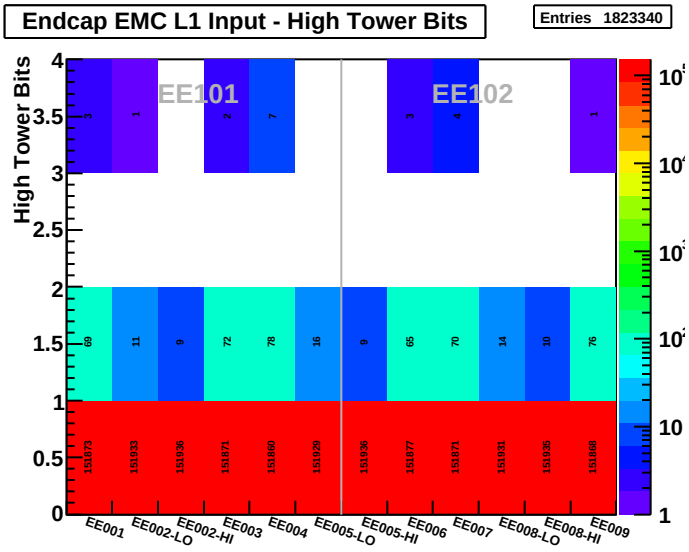

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

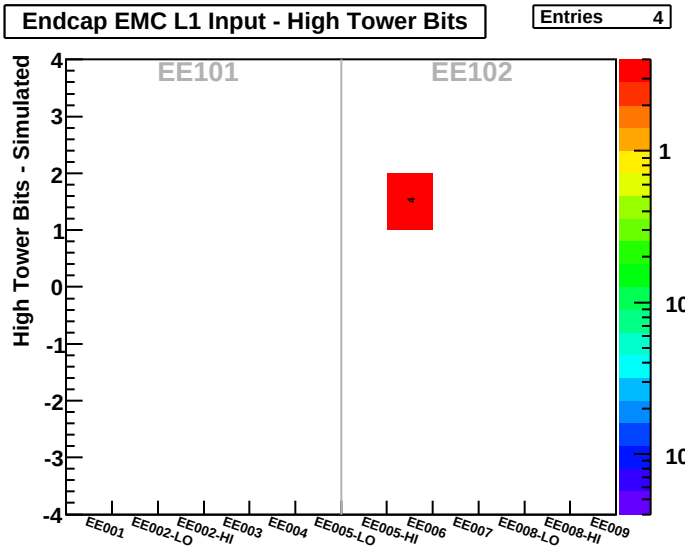

Endcap EMC L1 Input - Low Eta Sum
Entries 1823340
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

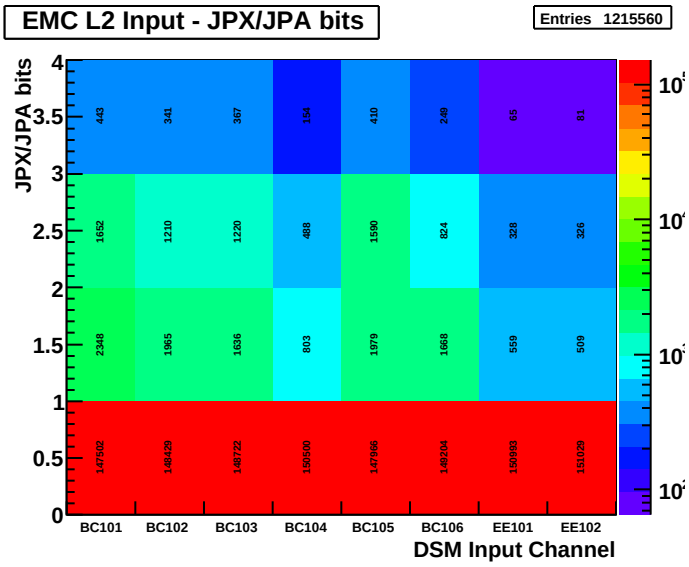

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

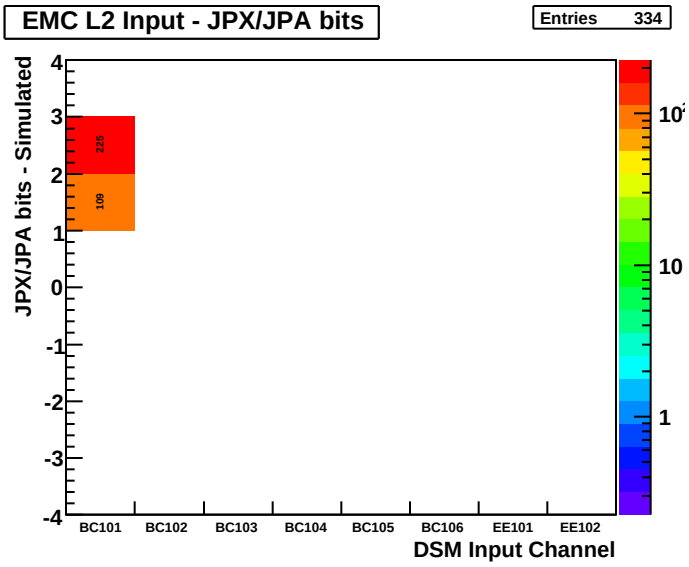

Endcap EMC L1 Input - High Eta Sum
Entries 1823340
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

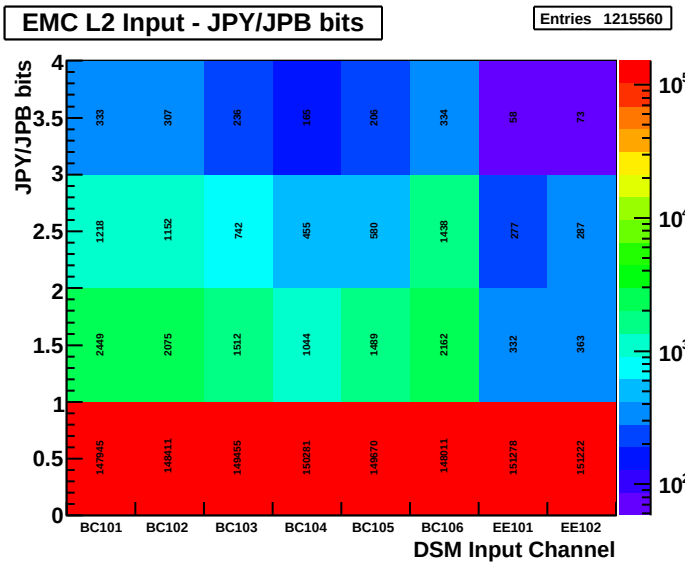

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

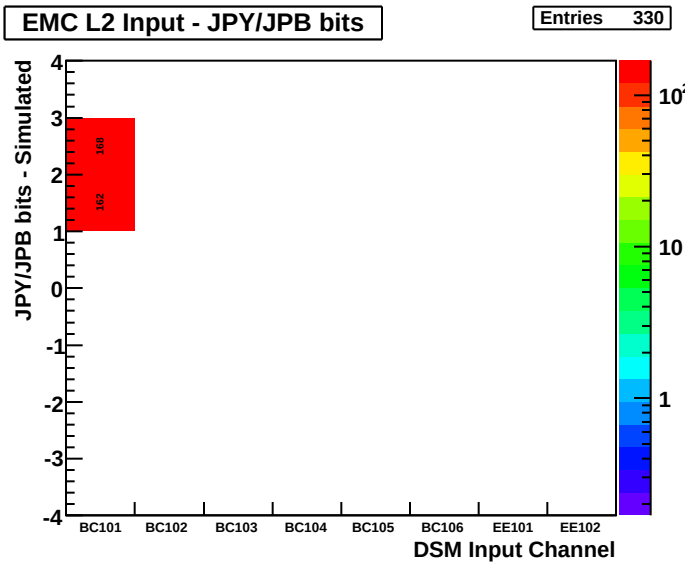

Endcap EMC L1 Input - High Tower Bits
Entries 1823340
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

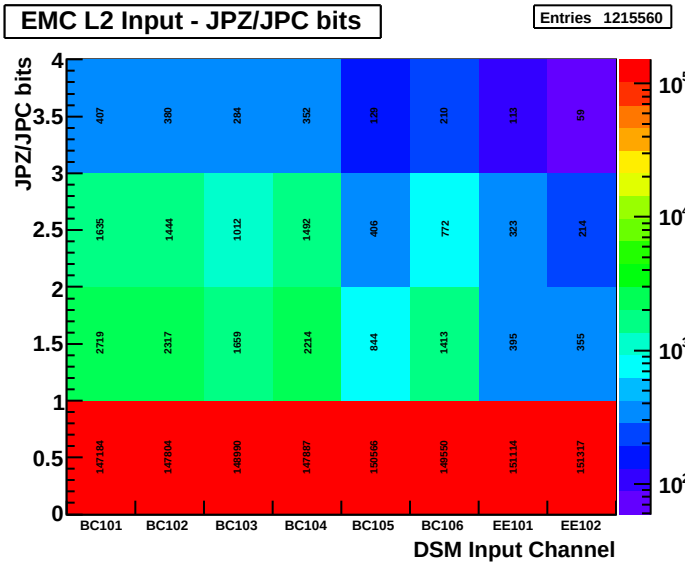

Endcap EMC L1 Input - High Tower Bits
Entries 4
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

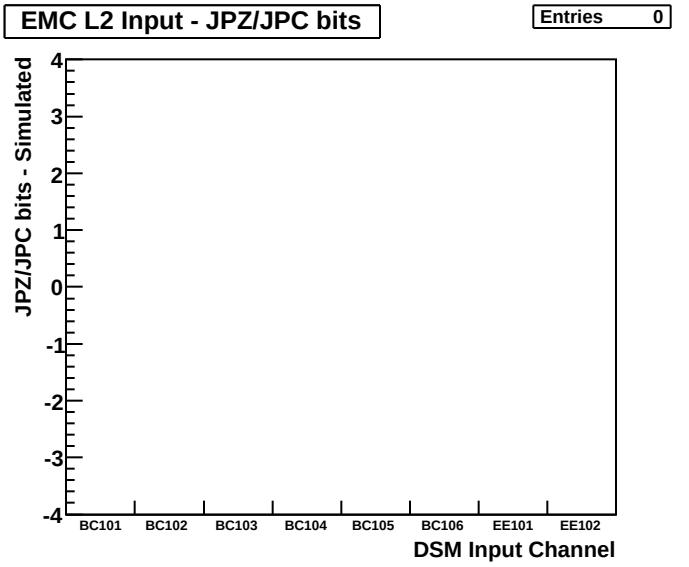

EMC L2 Input - JPX/JPA bits
Entries 1215560
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
443 341 367 154 410 249 65 81
1652 1210 1220 488 1590 824 328 326
2348 1965 1636 803 1979 1668 559 509
147502 148429 148722 150500 147966 149204 150993 151029

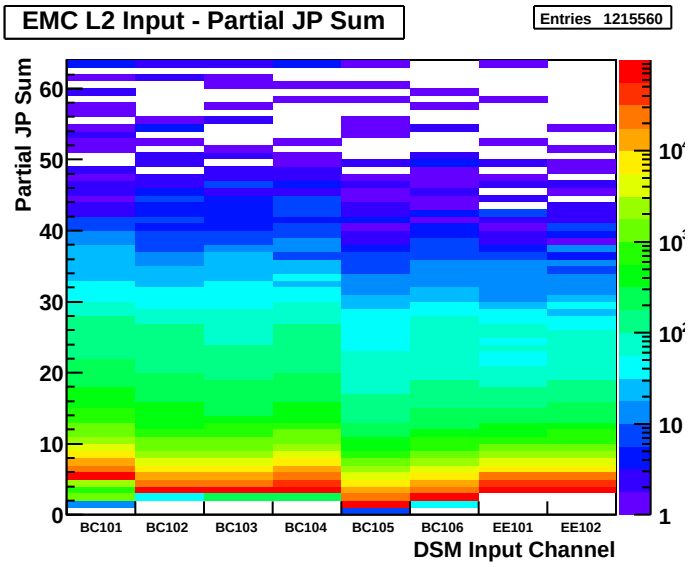

EMC L2 Input - JPX/JPA bits
Entries 334
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
225
109

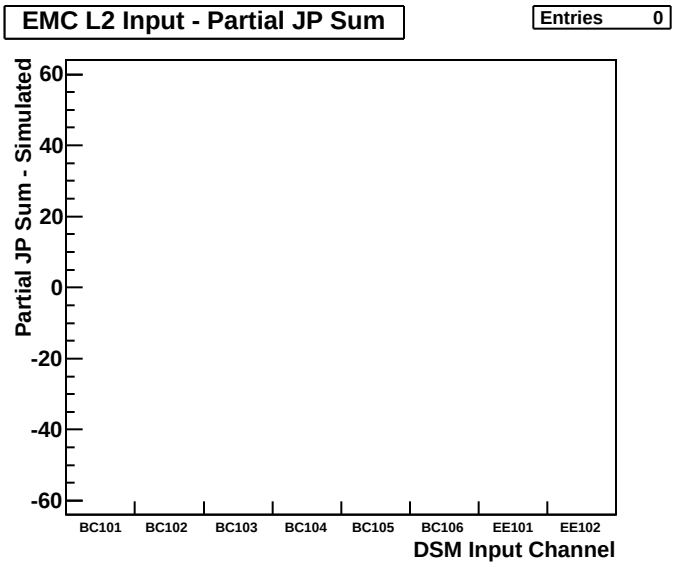

EMC L2 Input - JPY/JPB bits
Entries 1215560
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
333 307 236 166 206 334 58 73
1218 1152 742 455 580 1438 277 287
2449 2075 1512 1044 1489 2162 332 363
147945 148411 149455 150281 149670 148011 151278 151222

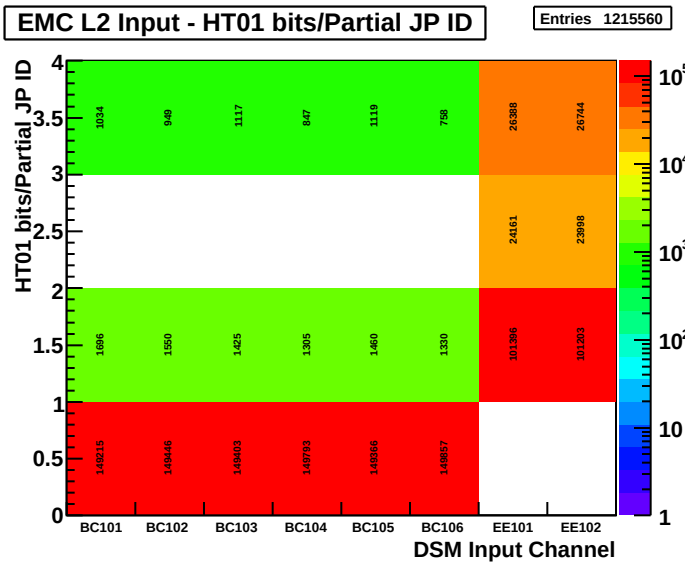

EMC L2 Input - JPY/JPB bits
Entries 330
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
168
162

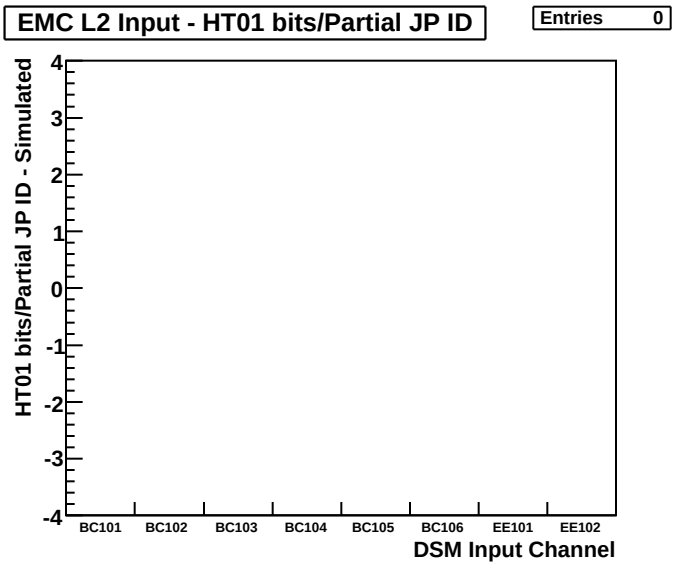

EMC L2 Input - JPZ/JPC bits
Entries 1215560
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
407 380 284 352 129 210 113 59
1635 1444 1012 1492 406 772 323 214
2719 2317 1659 2214 844 1413 395 355
147164 147804 148390 147887 150566 149550 151114 151317

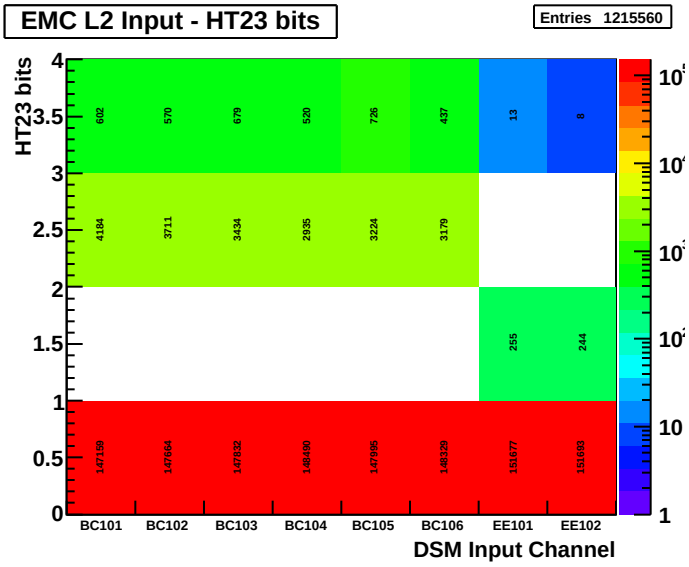

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

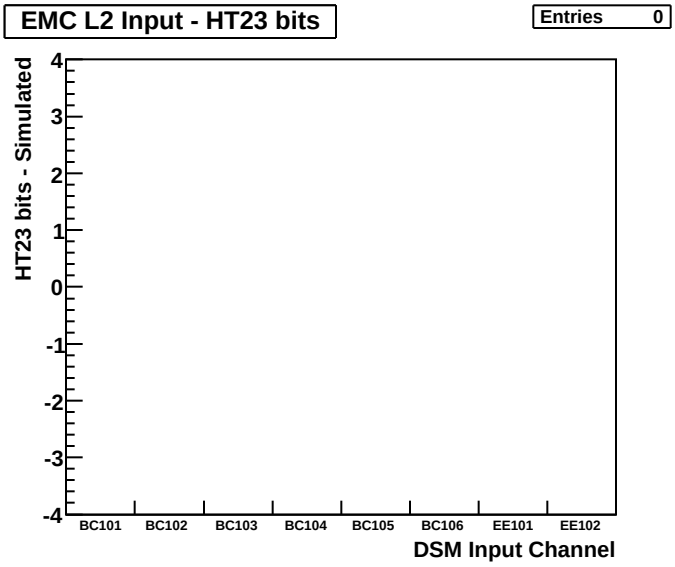

EMC L2 Input - Partial JP Sum
Entries 1215560
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

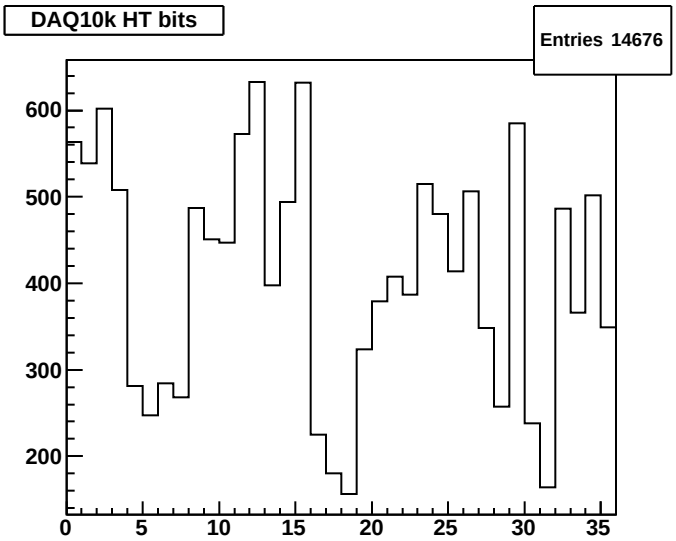

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

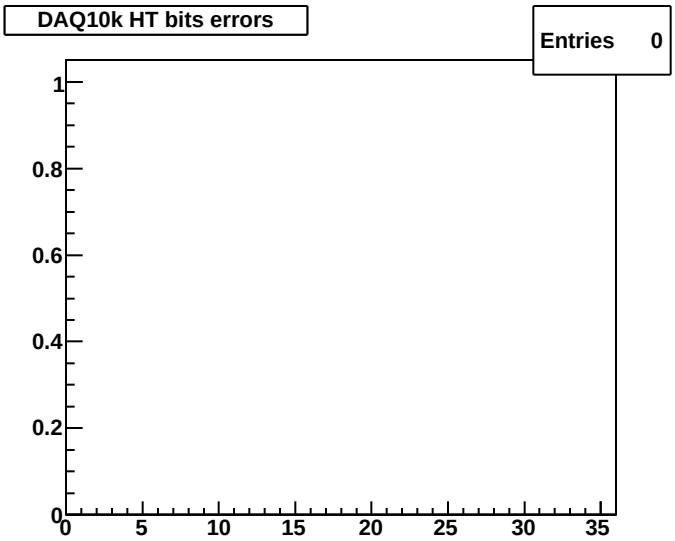

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1215560
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

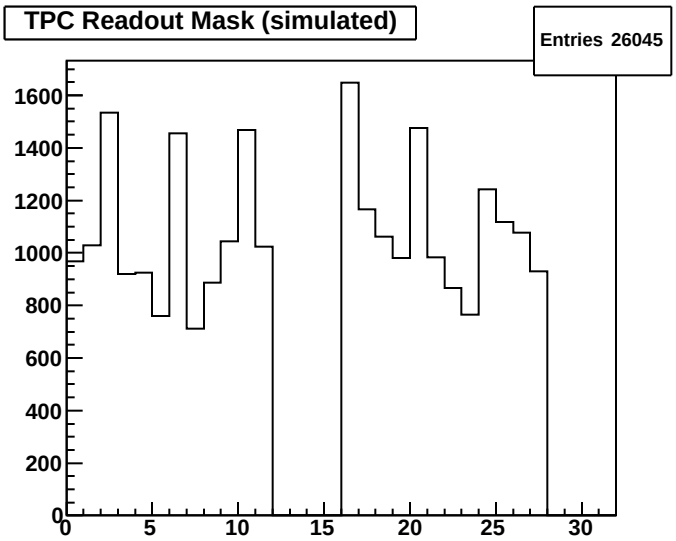

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

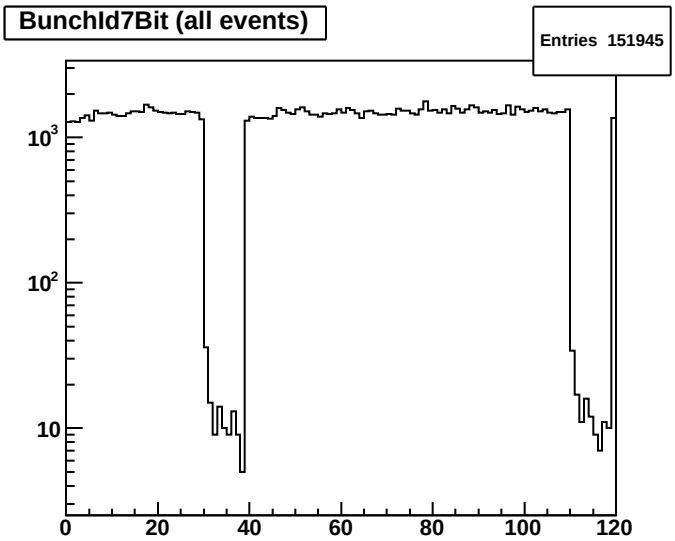

EMC L2 Input - HT23 bits
Entries 1215560
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

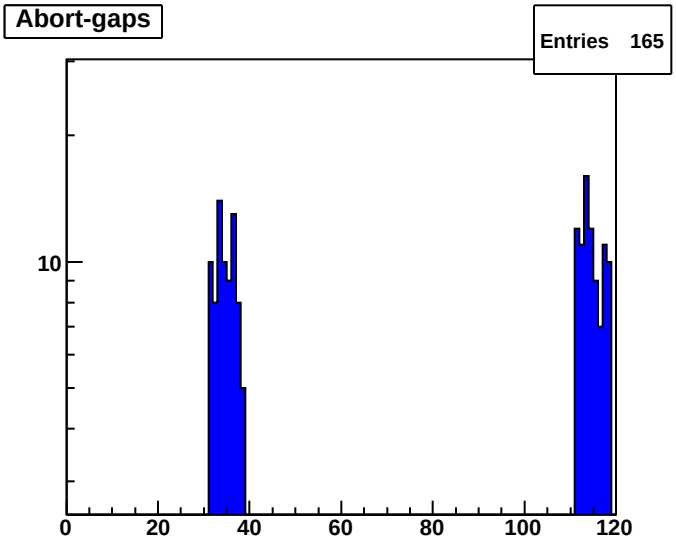

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

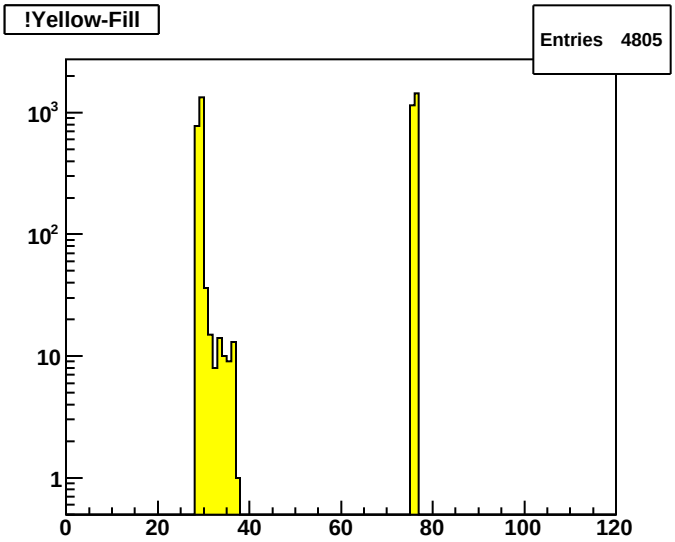

DAQ10k HT bits
Entries 14676

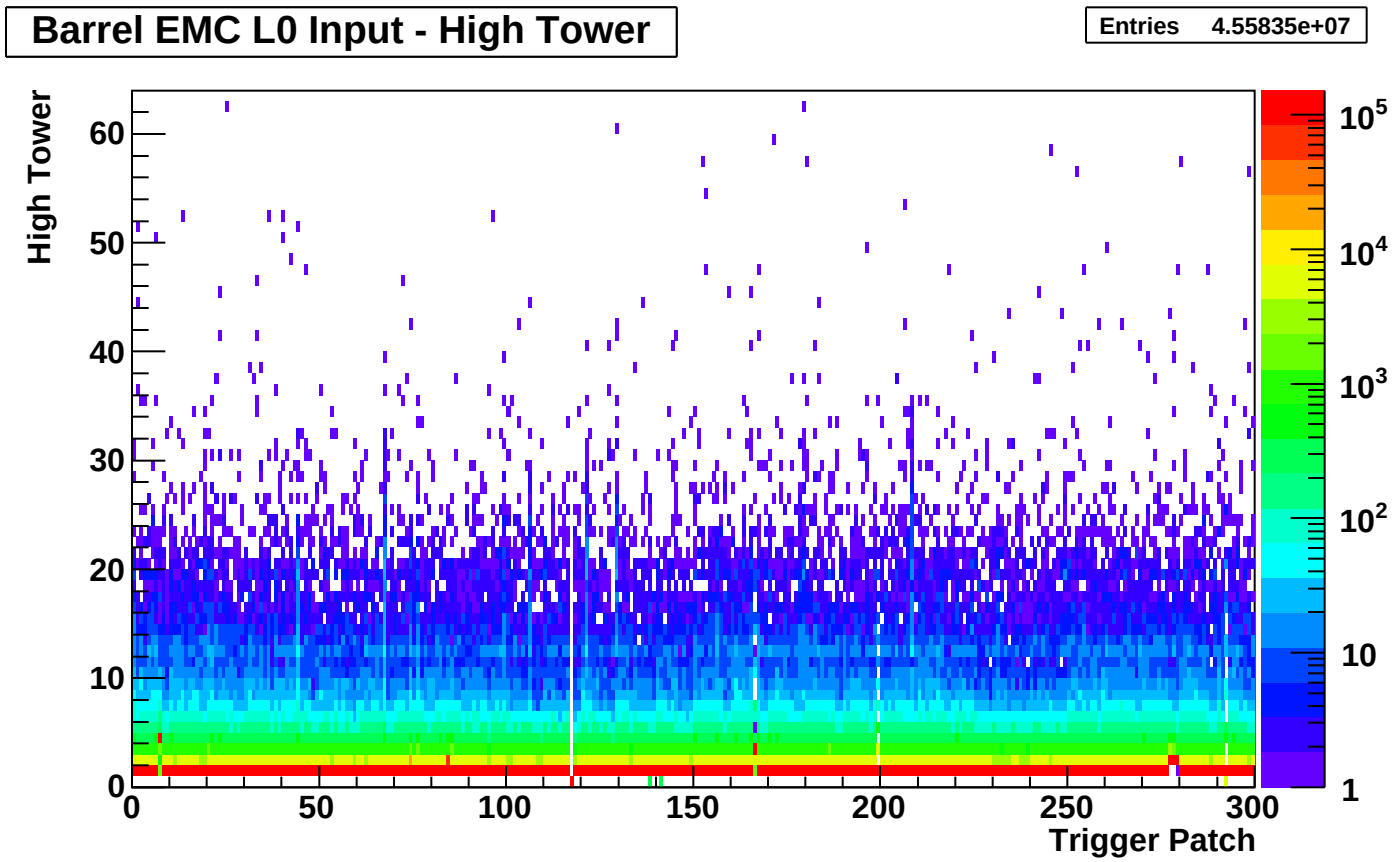

DAQ10k HT bits errors
Entries 0

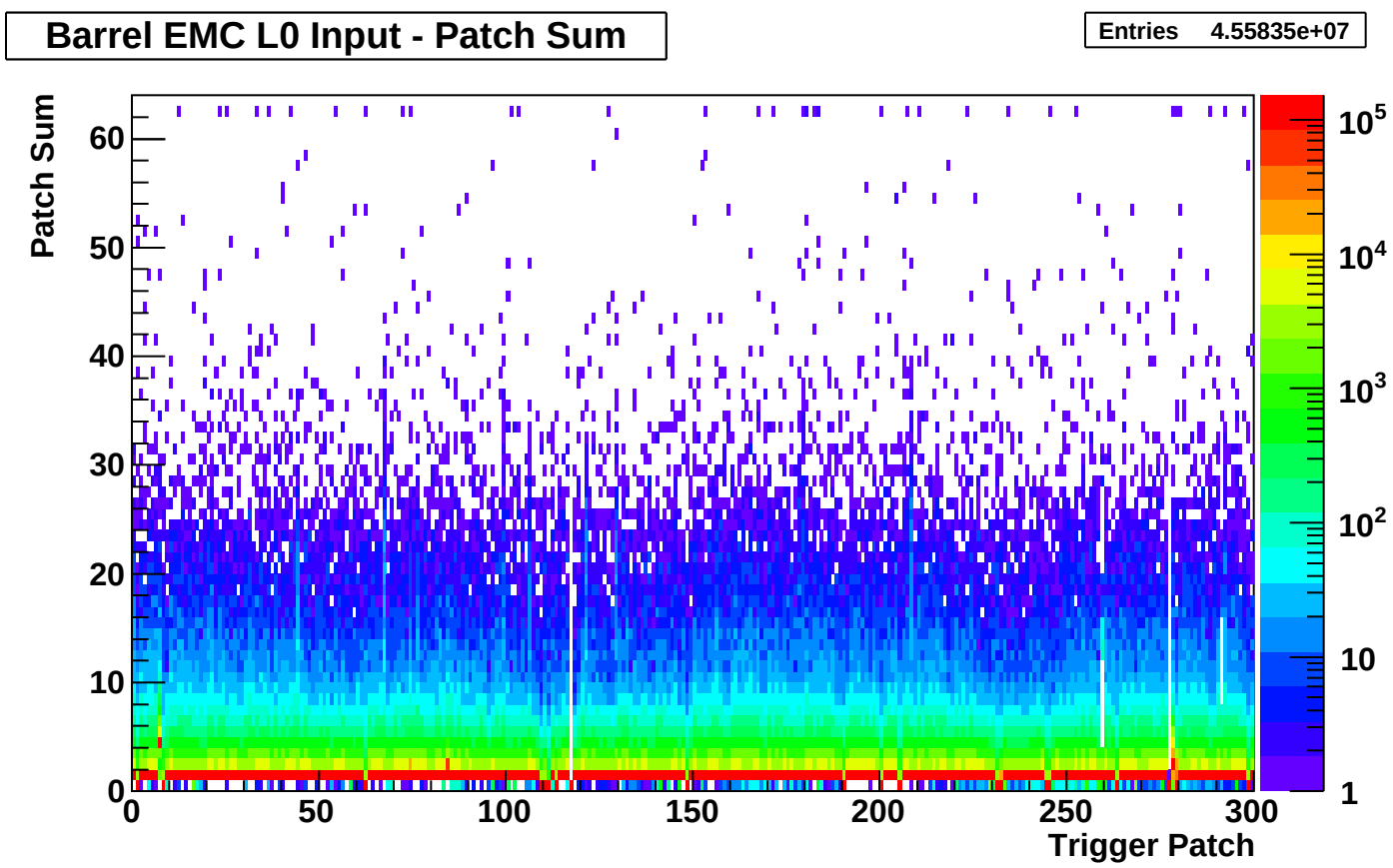

TPC Readout Mask (simulated)
Entries 26045

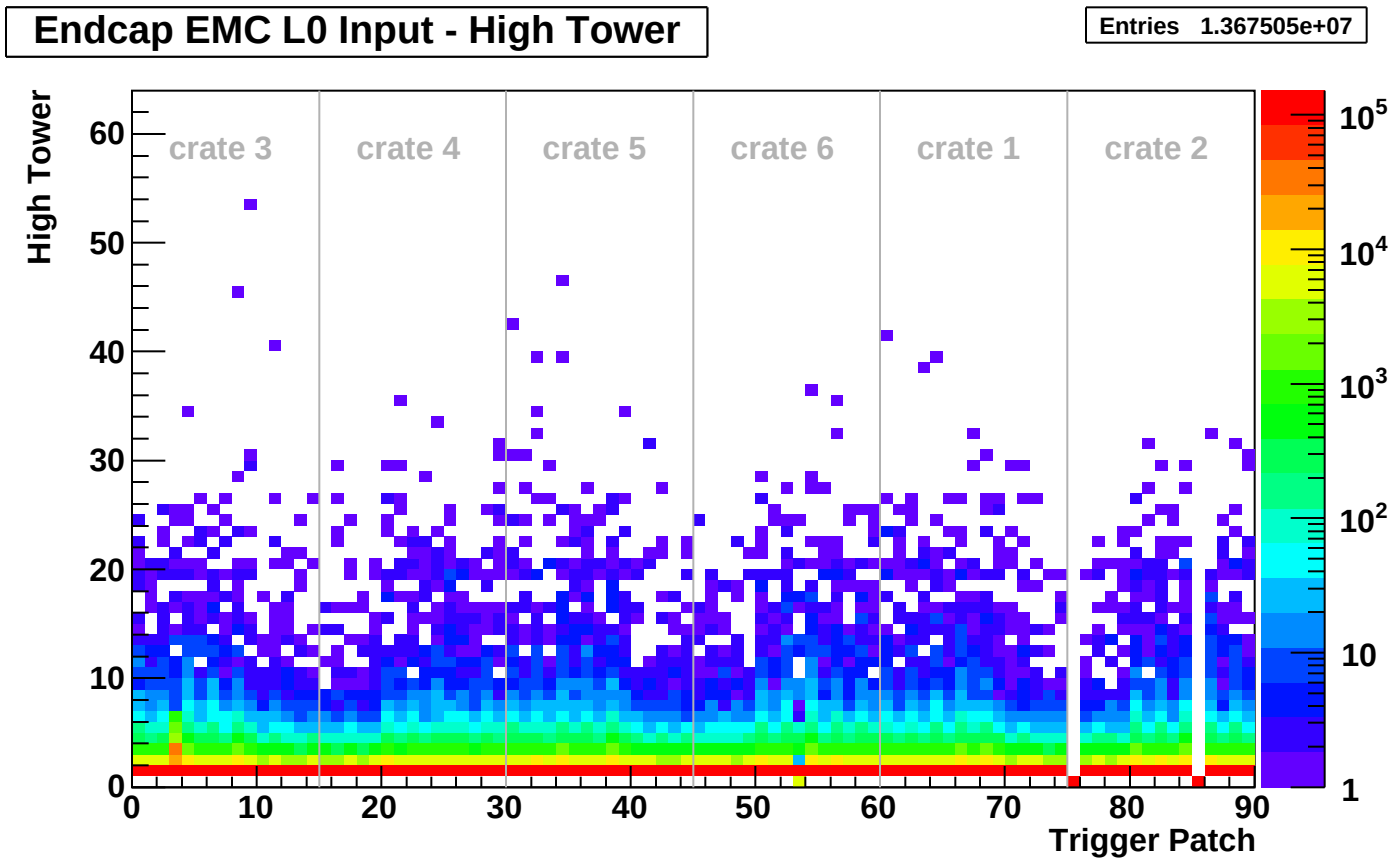

BunchId7Bit (all events)
Entries 151945

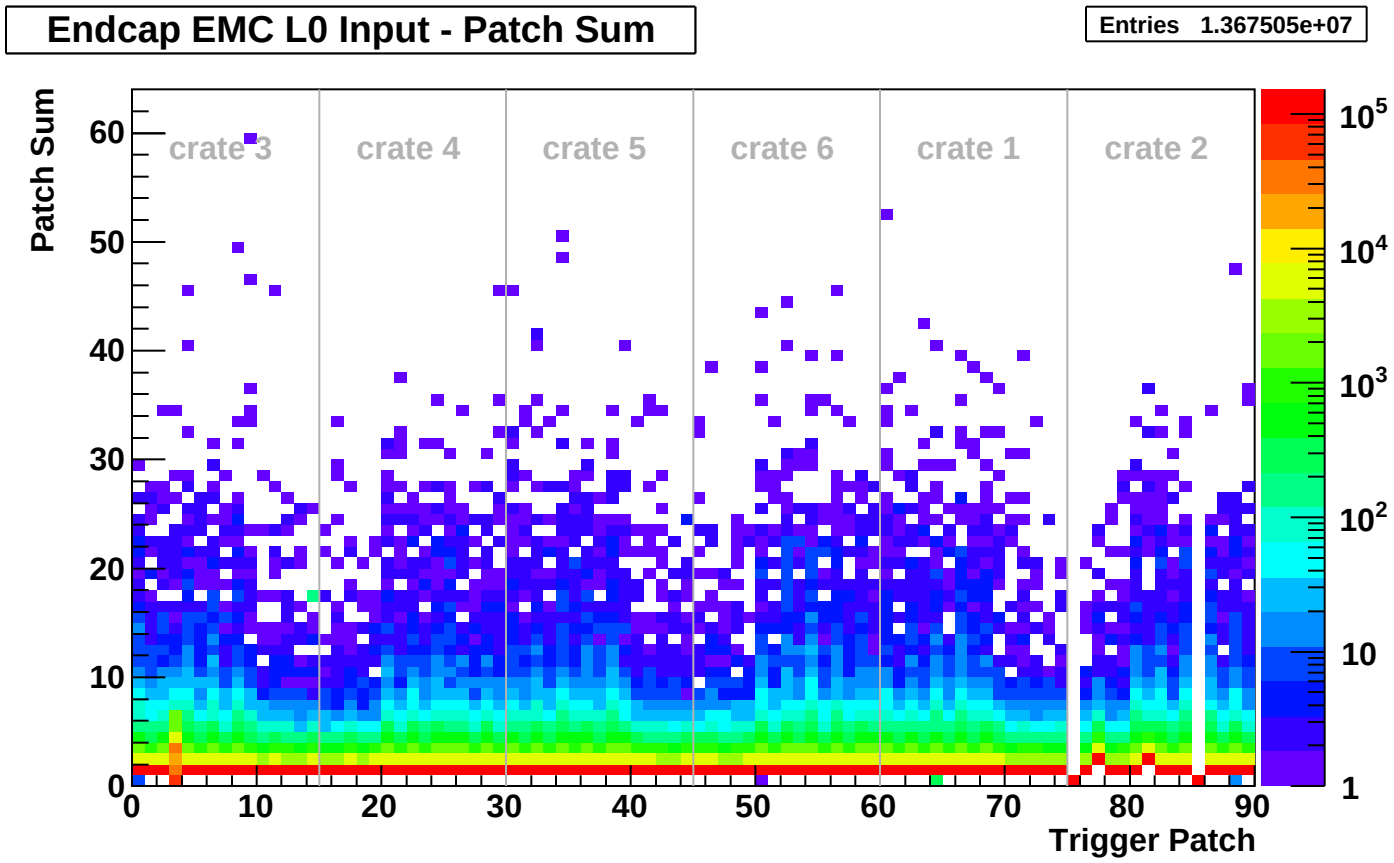

Abort-gaps
Entries 165

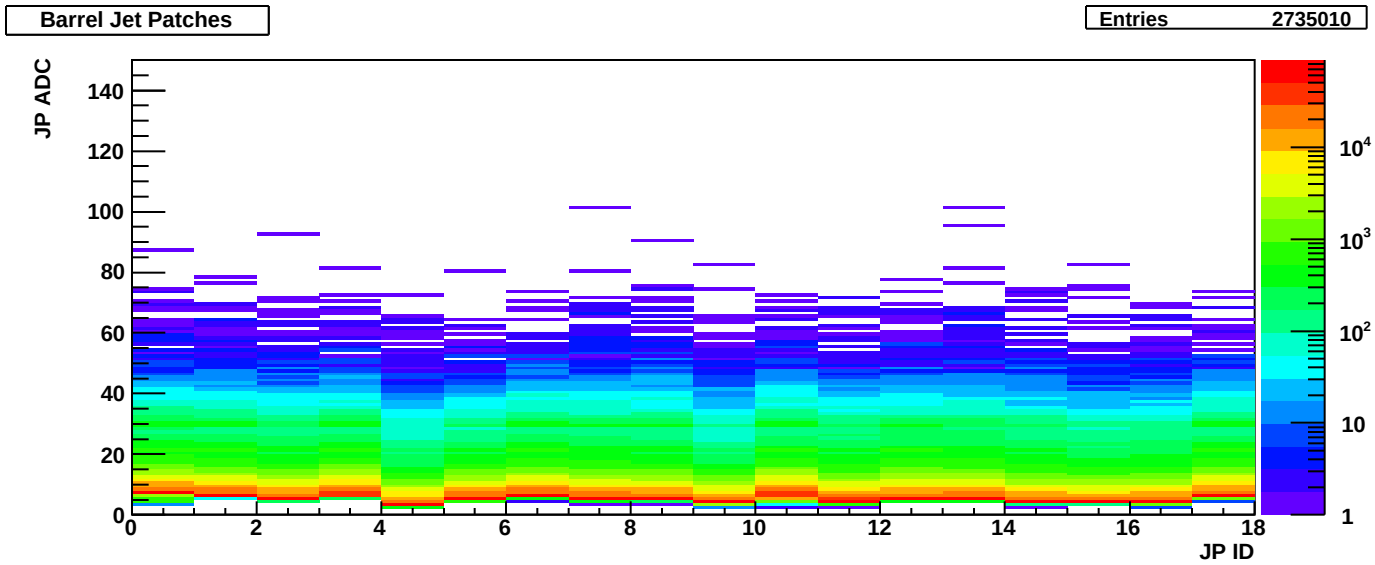

!Yellow-Fill
Entries 4805

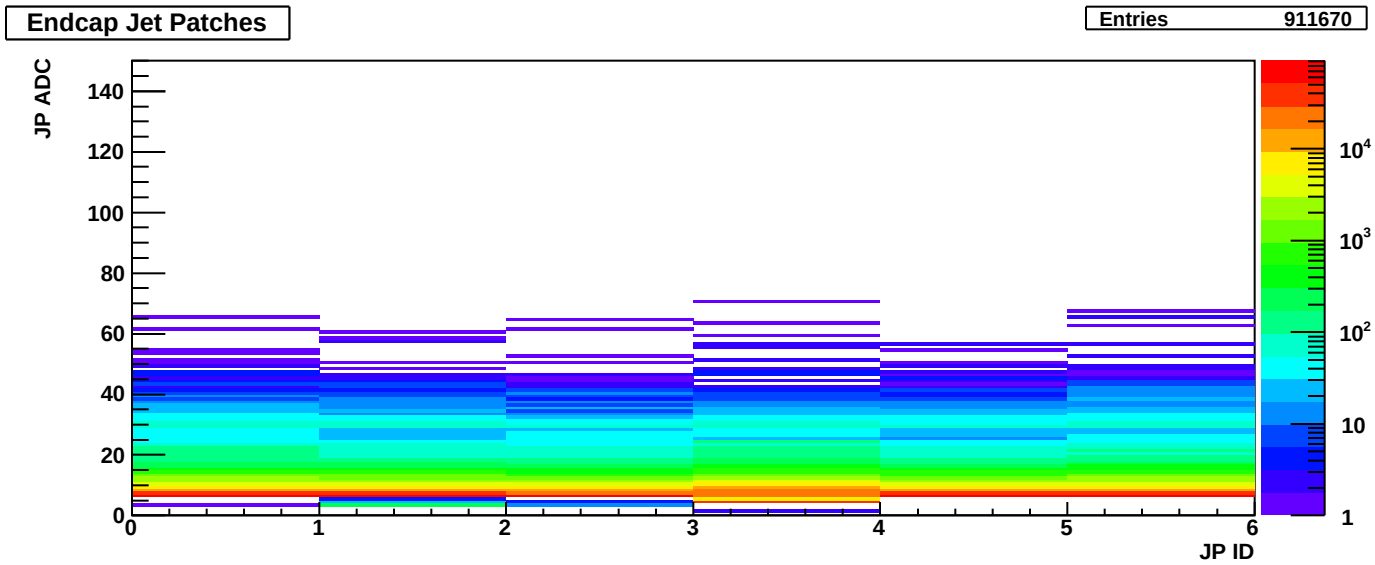

Barrel EMC L0 Input - High Tower
Entries 4.55835e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

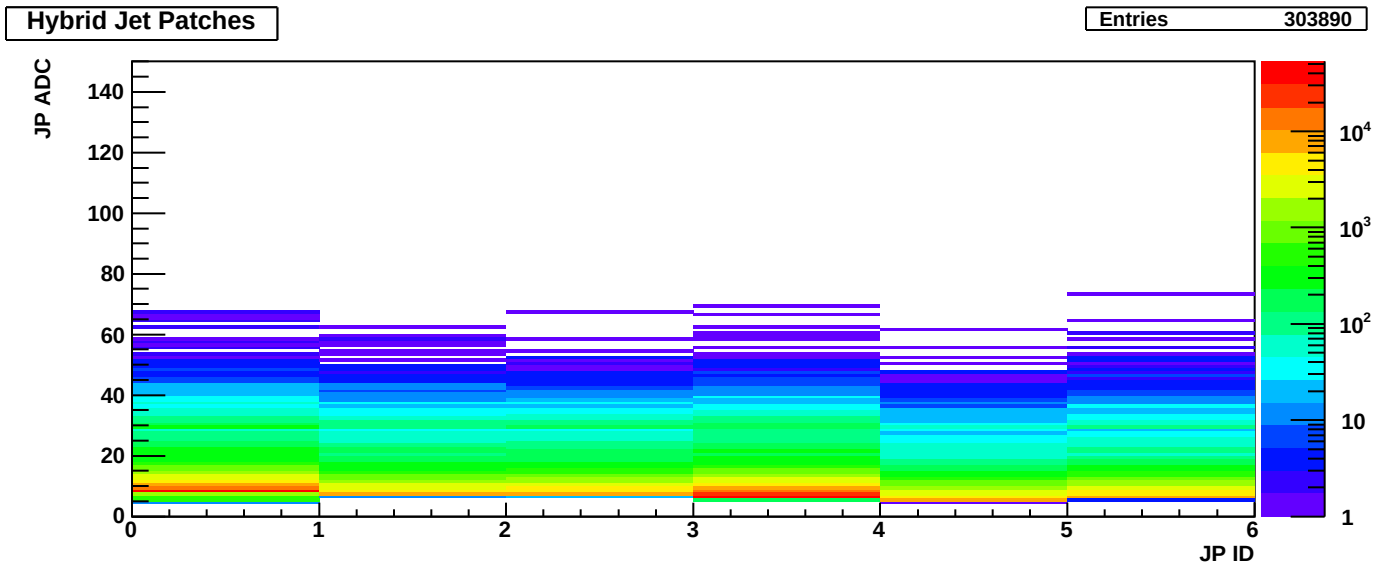

Barrel EMC L0 Input - Patch Sum
Entries 4.55835e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

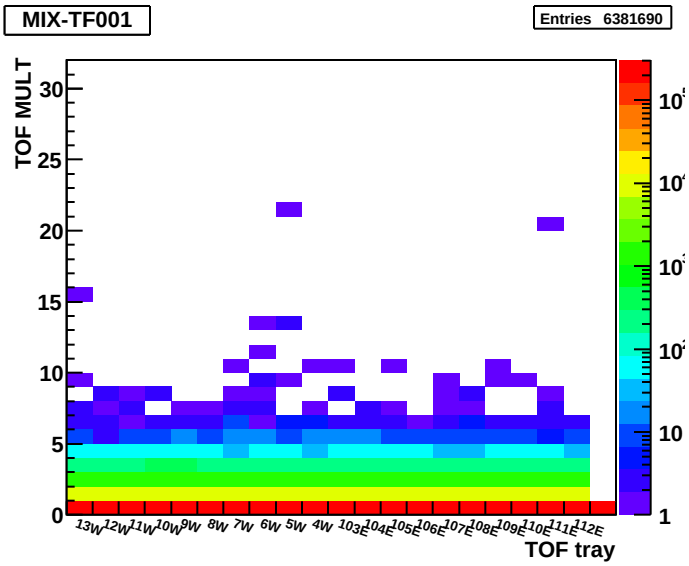

Endcap EMC L0 Input - High Tower
Entries 1.367505e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

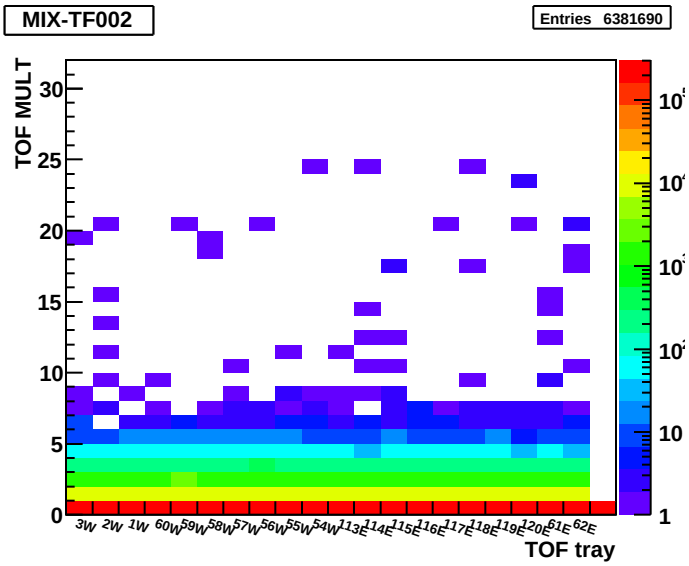

Endcap EMC L0 Input - Patch Sum
Entries 1.367505e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

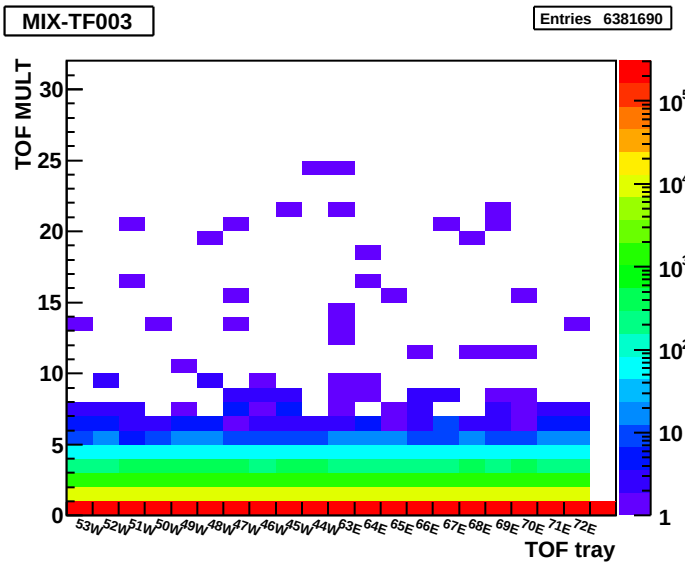

Barrel Jet Patches
Entries 2735010
JP ADC
JP ID

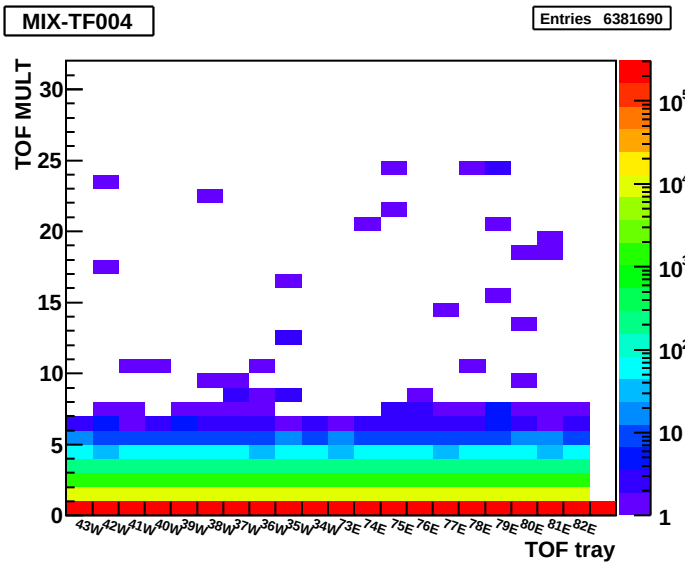

Endcap Jet Patches
Entries 911670
JP ADC
JP ID

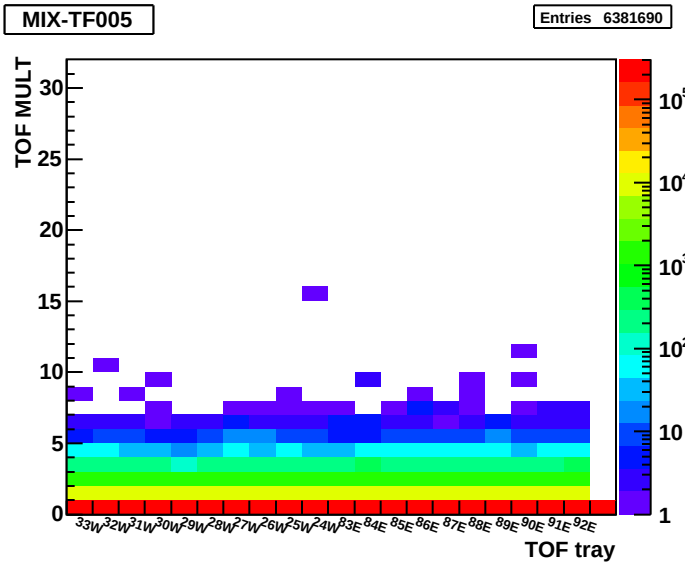

Hybrid Jet Patches
Entries 303890
JP ADC
JP ID

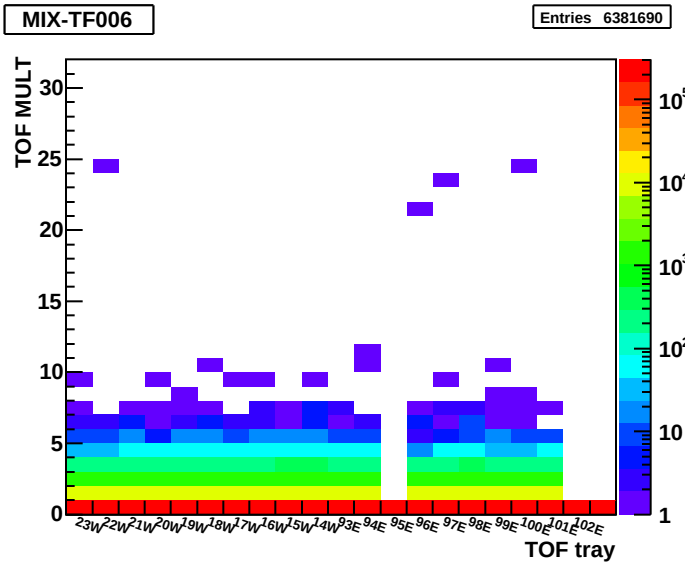

MIX-TF001
Entries 6381690
TOF MULT
TOF tray

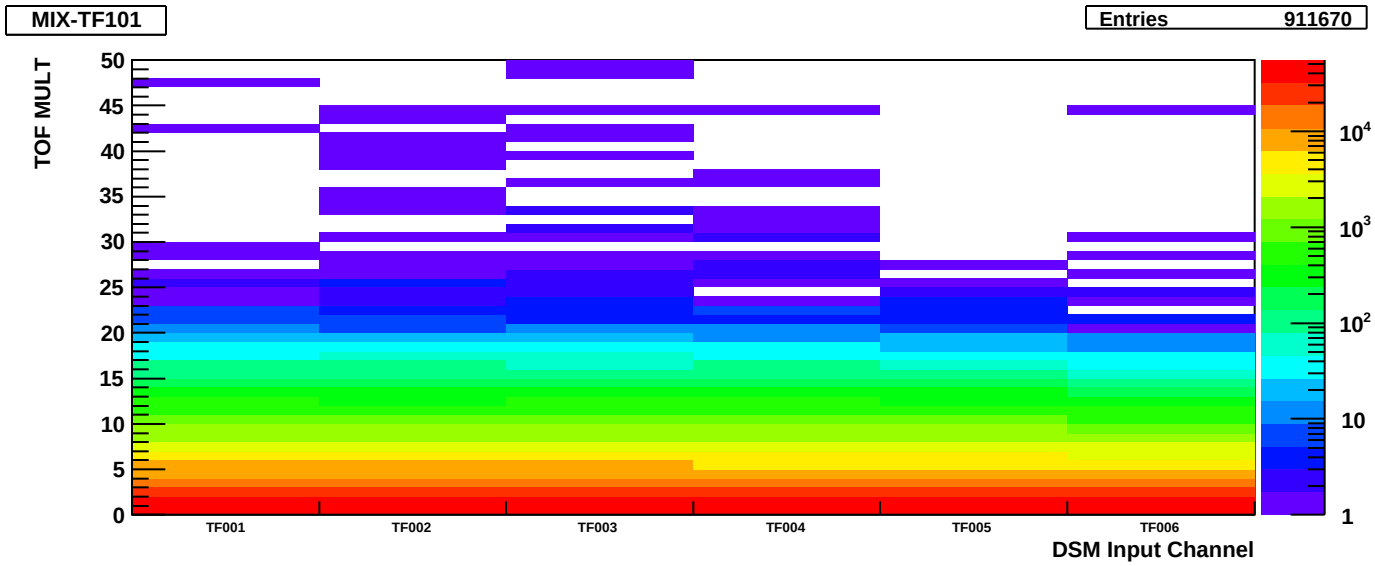

MIX-TF002
Entries 6381690
TOF MULT
TOF tray

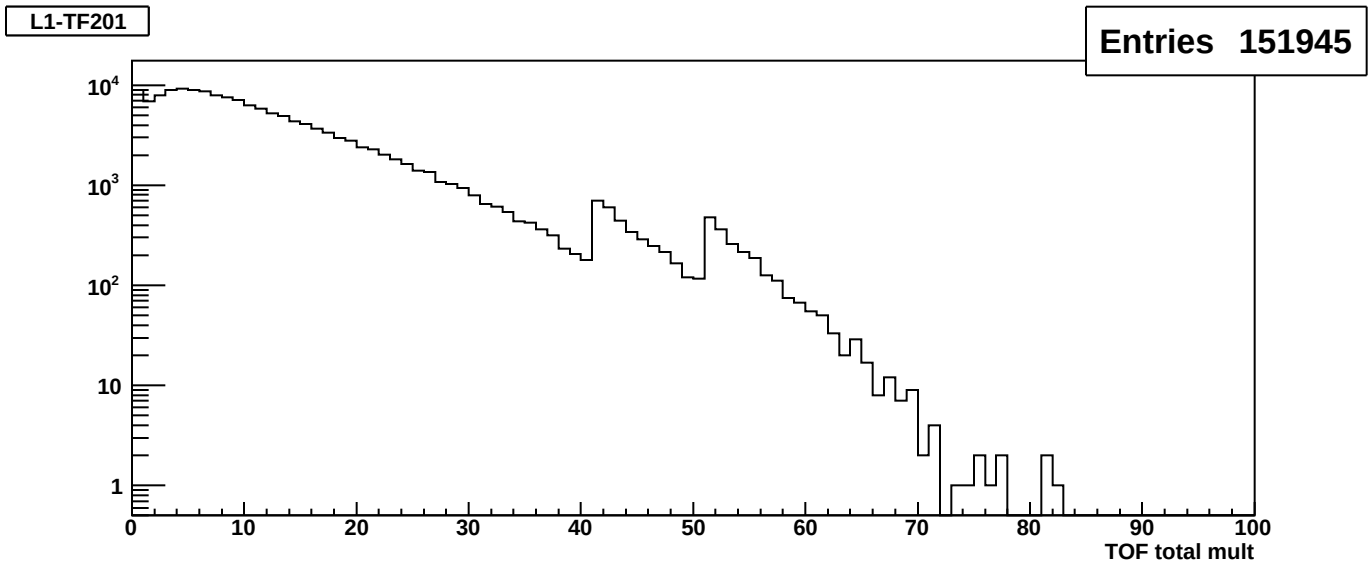

MIX-TF003
Entries 6381690
TOF MULT
TOF tray

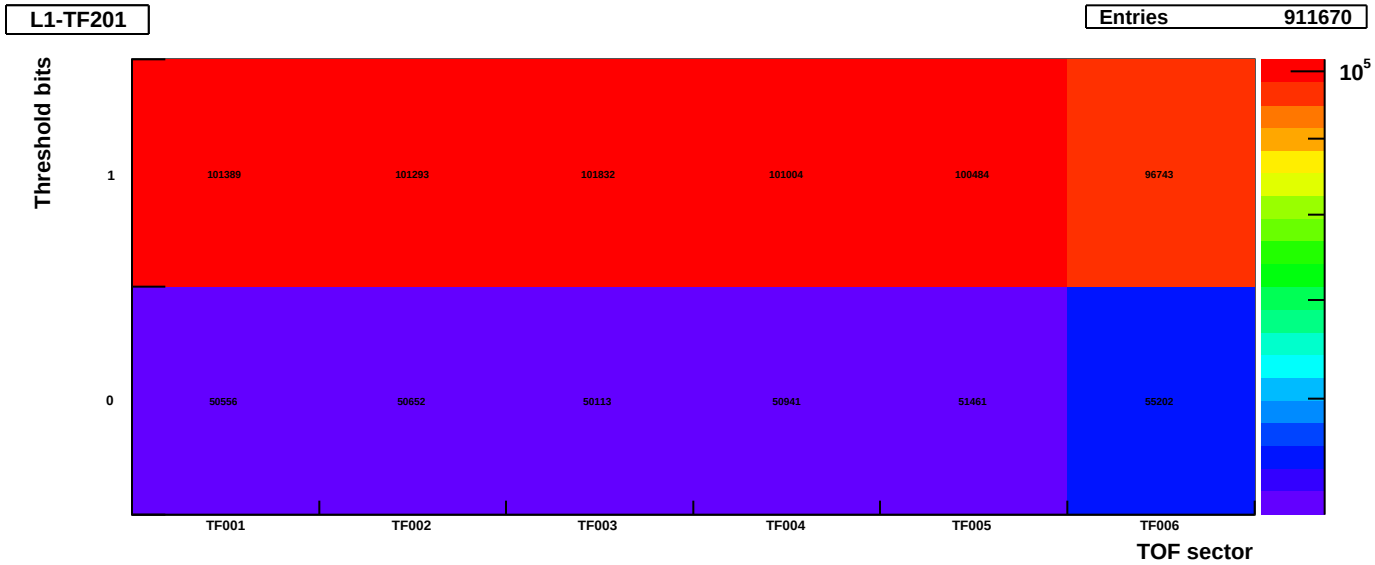

MIX-TF004
Entries 6381690
TOF MULT
TOF tray

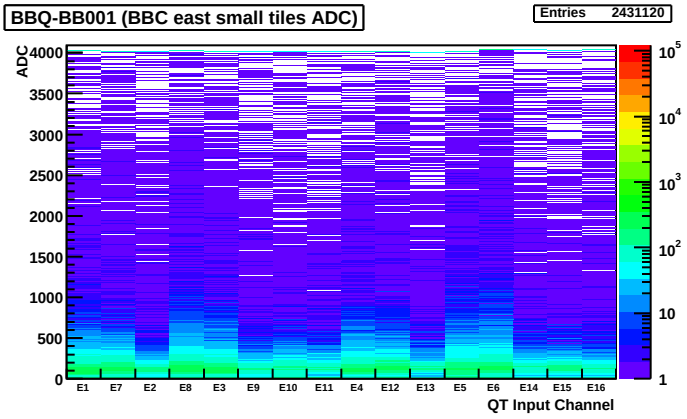

MIX-TF005
Entries 6381690
TOF MULT
TOF tray

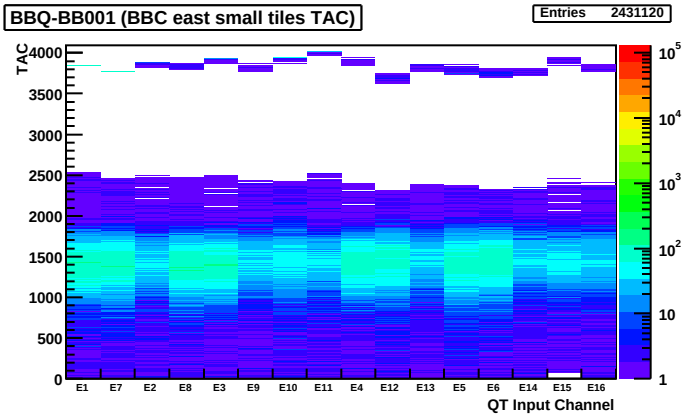

MIX-TF006
Entries 6381690
TOF MULT
TOF tray

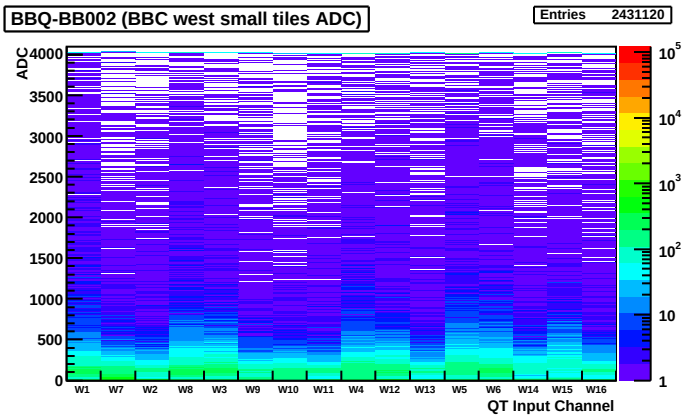

MIX-TF101
Entries 911670
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

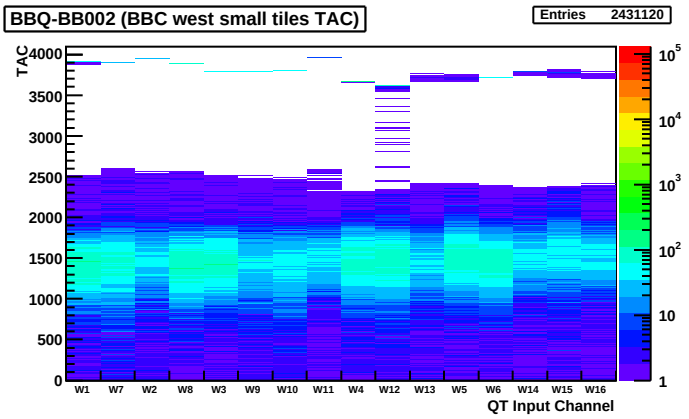

L1-TF201
Entries 151945
TOF total mult

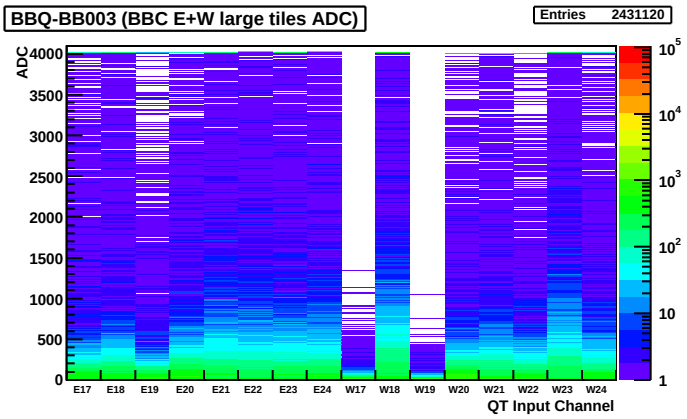

L1-TF201
Entries 911670
Threshold bits
101389
101293
101832
101004
100484
96743
50556
50652
50113
50941
51461
55202
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

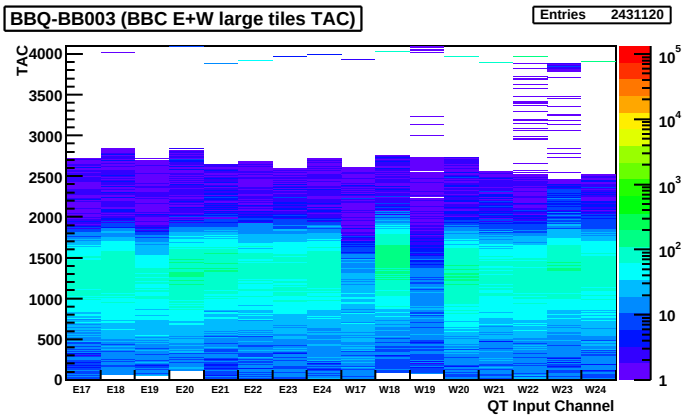

BBQ-BB001 (BBC east small tiles ADC)
Entries 2431120
ADC
QT Input Channel

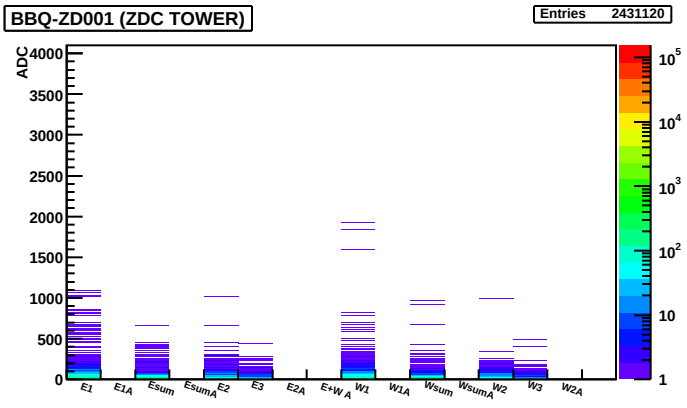

BBQ-BB001 (BBC east small tiles TAC)
Entries 2431120
TAC
QT Input Channel

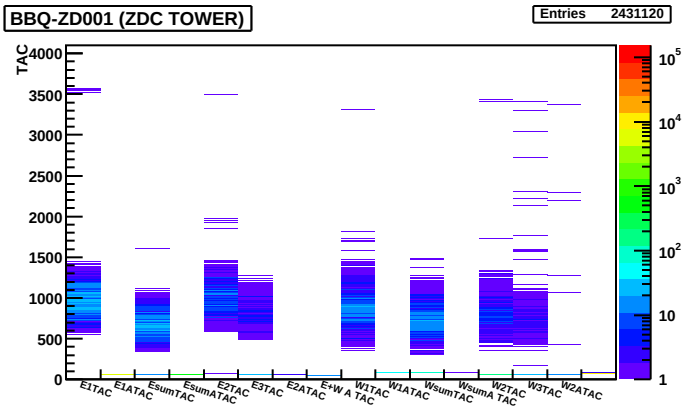

BBQ-BB002 (BBC west small tiles ADC)
Entries 2431120
ADC
QT Input Channel

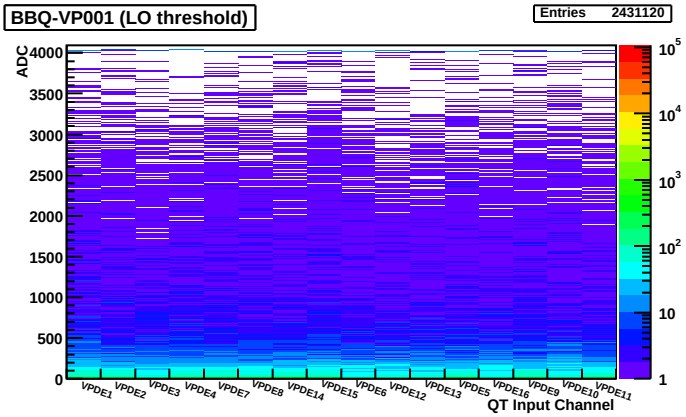

BBQ-BB002 (BBC west small tiles TAC)
Entries 2431120
TAC
QT Input Channel

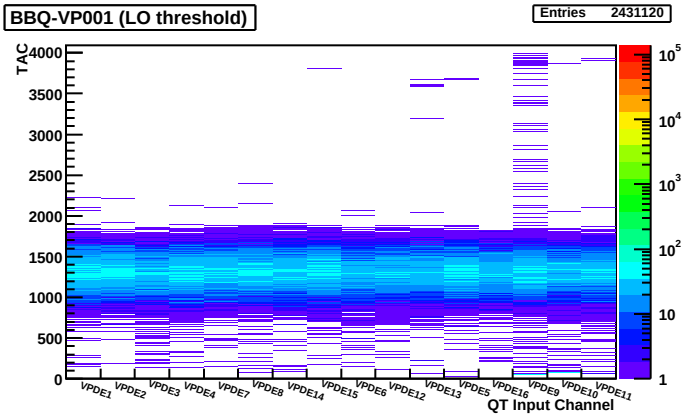

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2431120
ADC
QT Input Channel

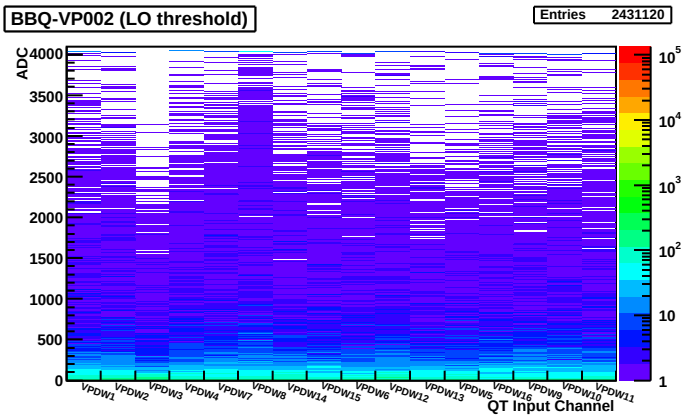

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2431120
TAC
QT Input Channel

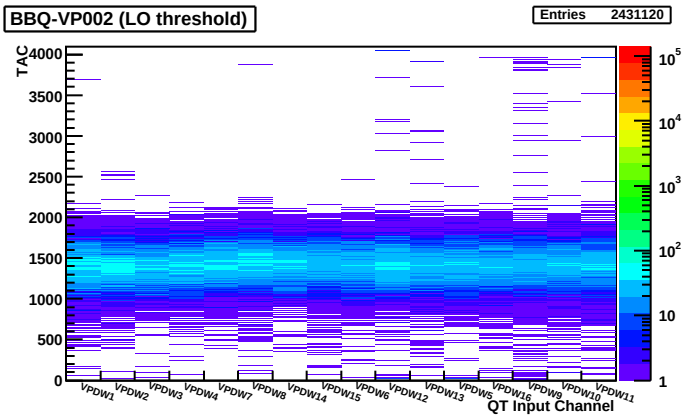

BBQ-ZD001 (ZDC TOWER)
Entries 2431120
ADC

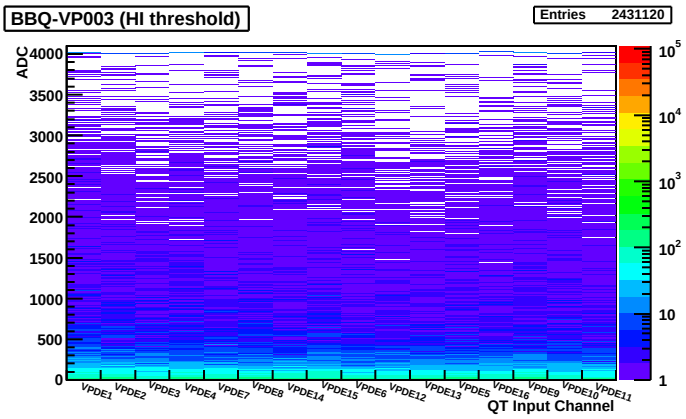

BBQ-ZD001 (ZDC TOWER)
Entries 2431120
TAC

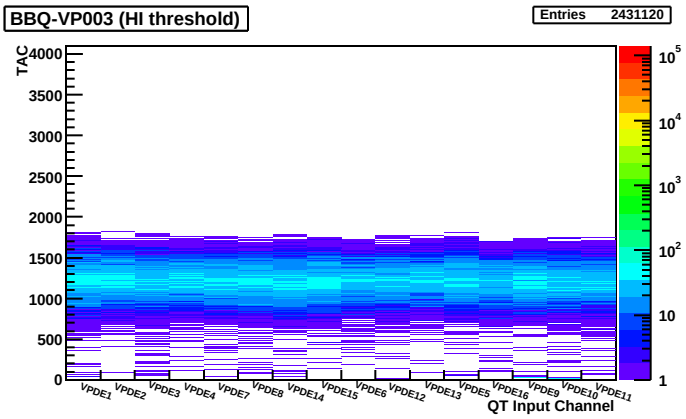

BBQ-VP001 (LO threshold)
Entries 2431120
ADC
QT Input Channel

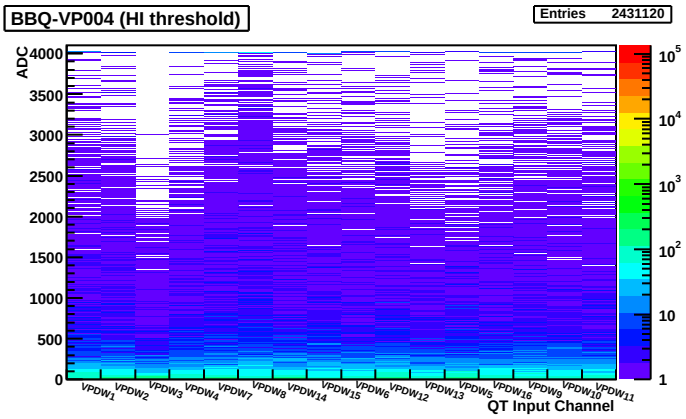

BBQ-VP001 (LO threshold)
Entries 2431120
TAC
QT Input Channel

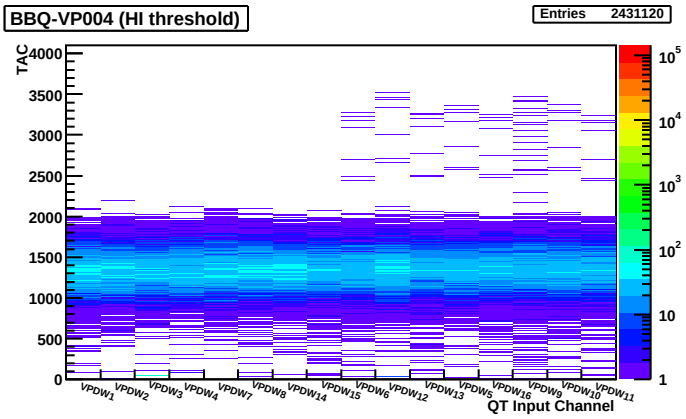

BBQ-VP002 (LO threshold)
Entries 2431120
ADC
QT Input Channel

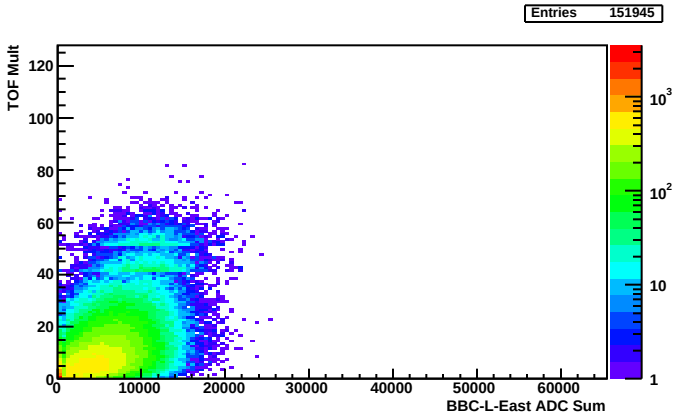

BBQ-VP002 (LO threshold)
Entries 2431120
TAC
QT Input Channel

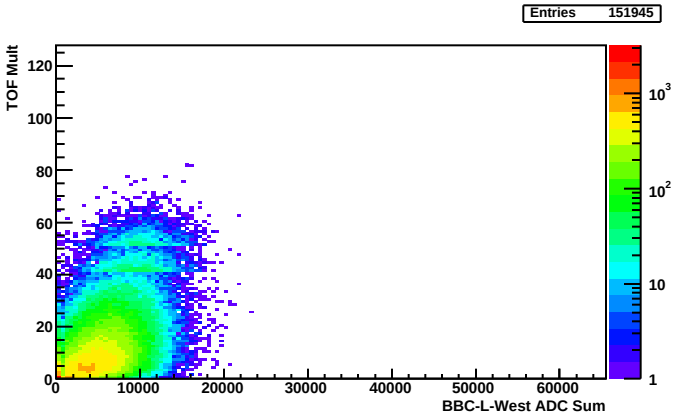

BBQ-VP003 (HI threshold)
Entries 2431120
ADC
QT Input Channel

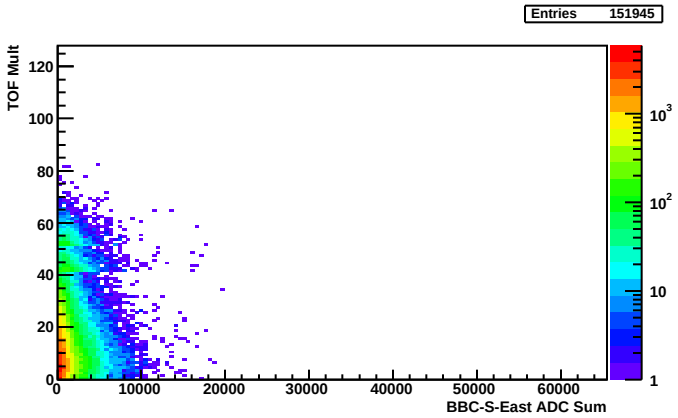

BBQ-VP003 (HI threshold)
Entries 2431120
TAC
QT Input Channel

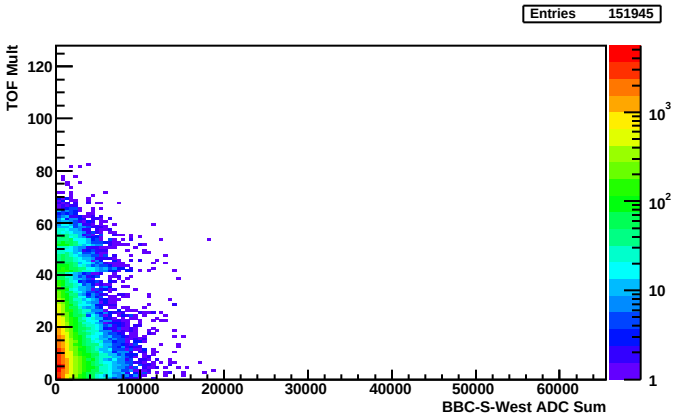

BBQ-VP004 (HI threshold)
Entries 2431120
ADC
QT Input Channel

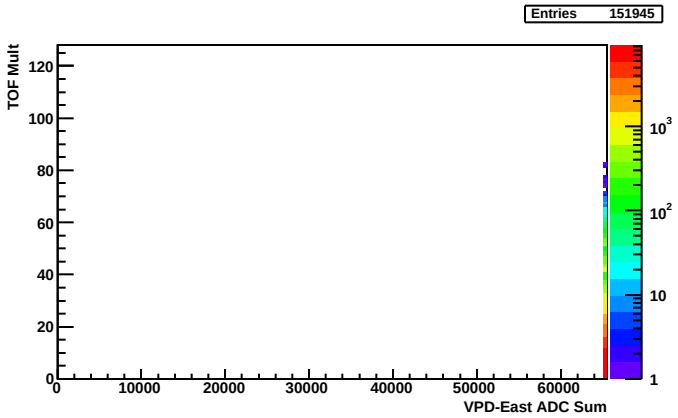

BBQ-VP004 (HI threshold)
Entries 2431120
TAC
QT Input Channel

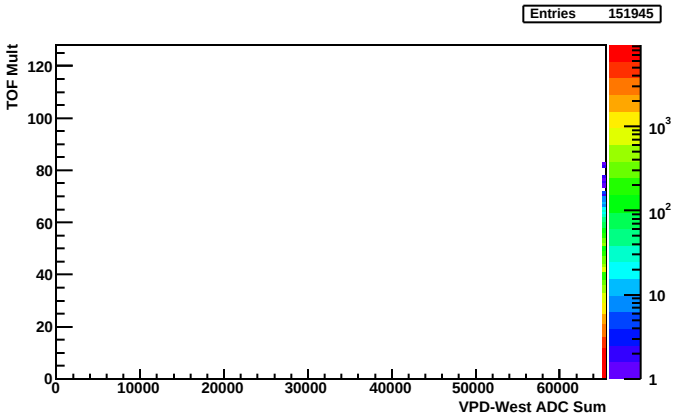

Entries 151945
TOF Mult
BBC-L-East ADC Sum

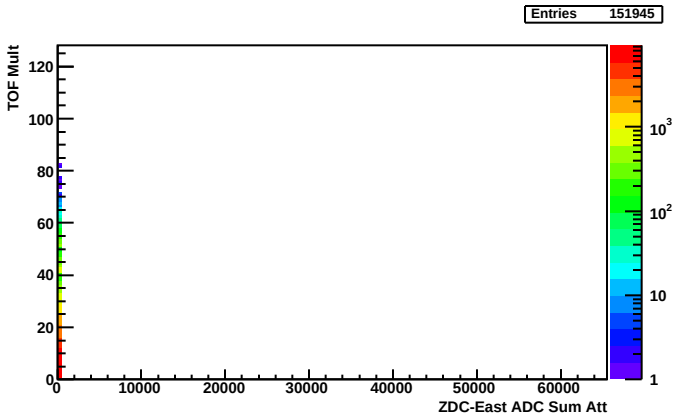

Entries 151945
TOF Mult
BBC-L-West ADC Sum

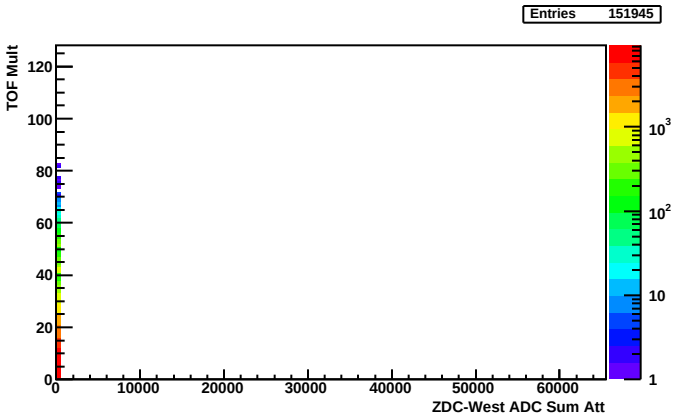

Entries 151945
TOF Mult
BBC-S-East ADC Sum

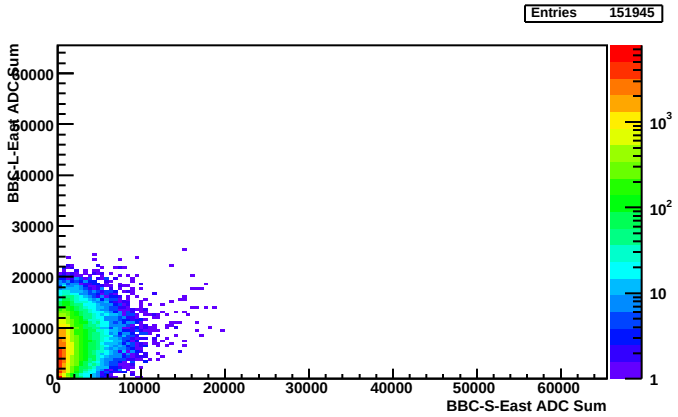

Entries 151945
TOF Mult
BBC-S-West ADC Sum

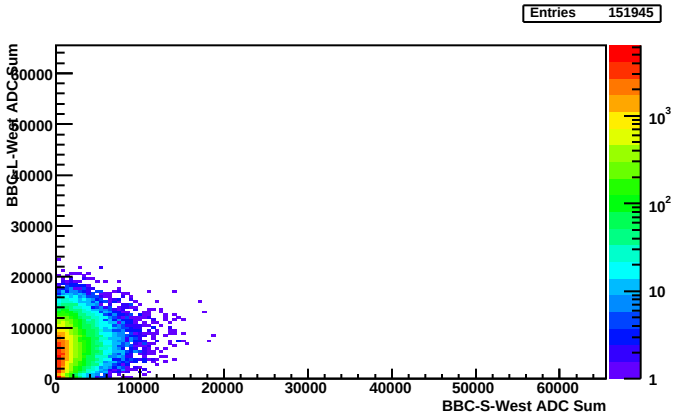

Entries 151945
TOF Mult
VPD-East ADC Sum

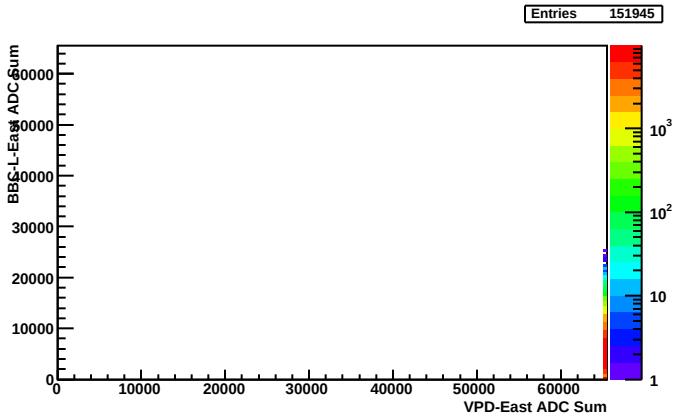

Entries 151945
TOF Mult
VPD-West ADC Sum

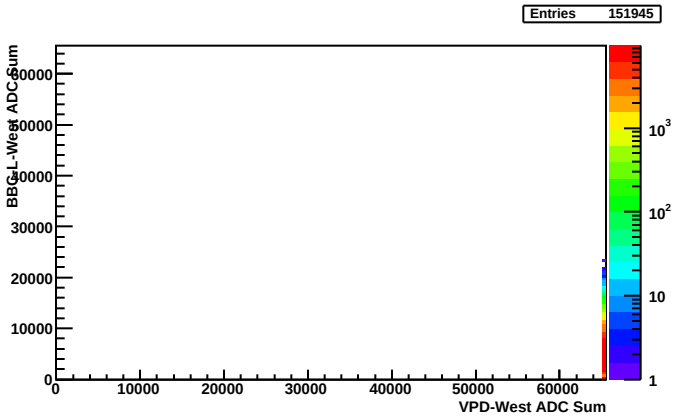

Entries 151945
TOF Mult
ZDC-East ADC Sum Att

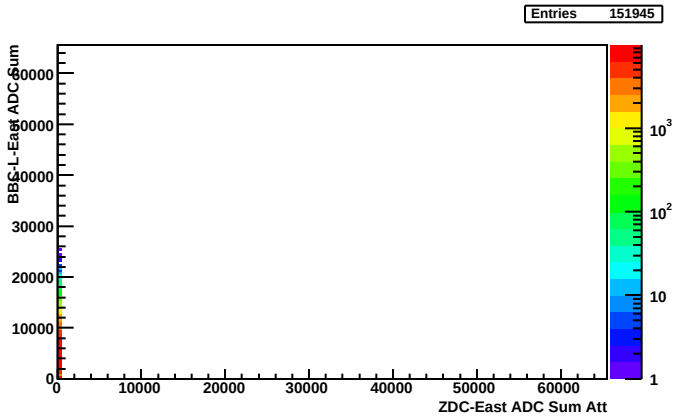

Entries 151945
TOF Mult
ZDC-West ADC Sum Att

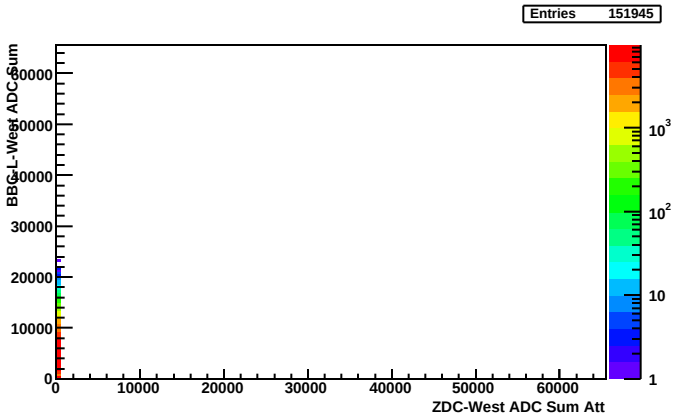

Entries 151945
BBC-L-East ADC Sum
BBC-S-East ADC Sum

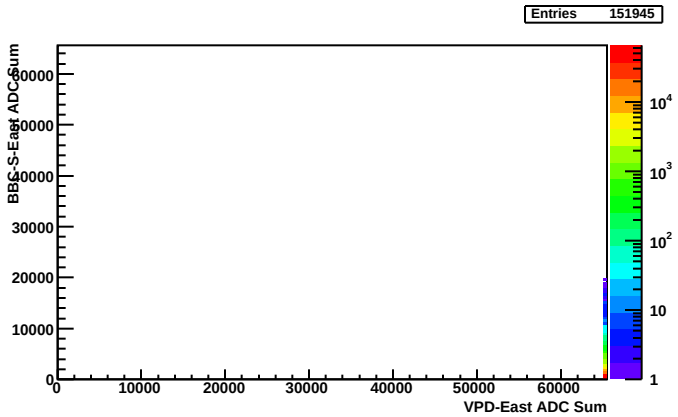

Entries 151945
BBC-L-West ADC Sum
BBC-S-West ADC Sum

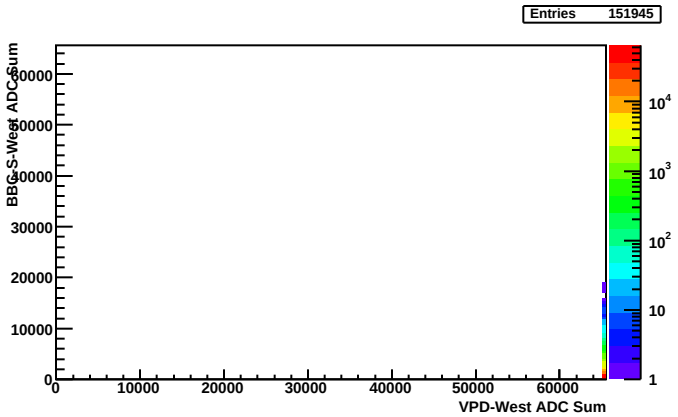

Entries 151945
BBC-L-East ADC Sum
VPD-East ADC Sum

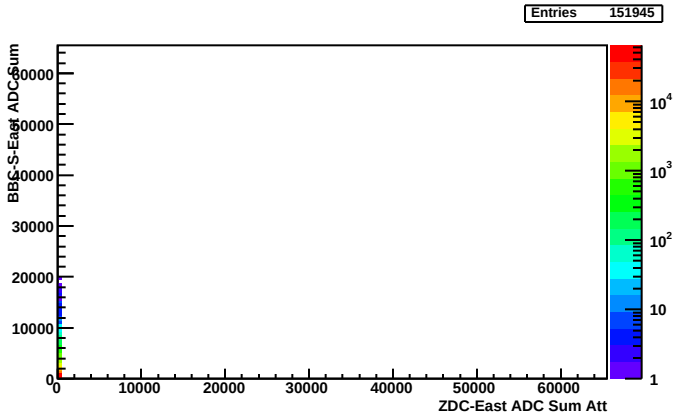

Entries 151945
BBC-L-West ADC Sum
VPD-West ADC Sum

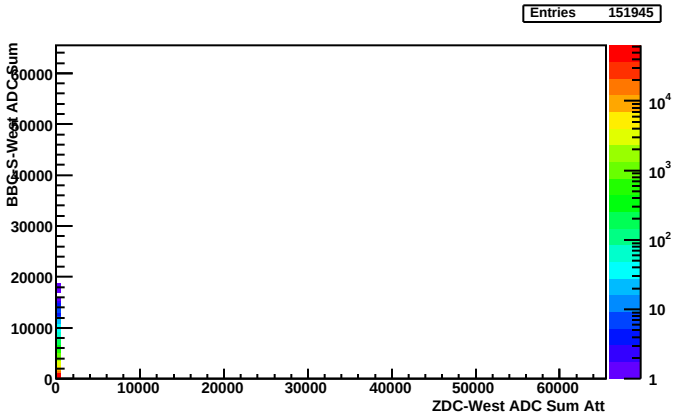

Entries 151945
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

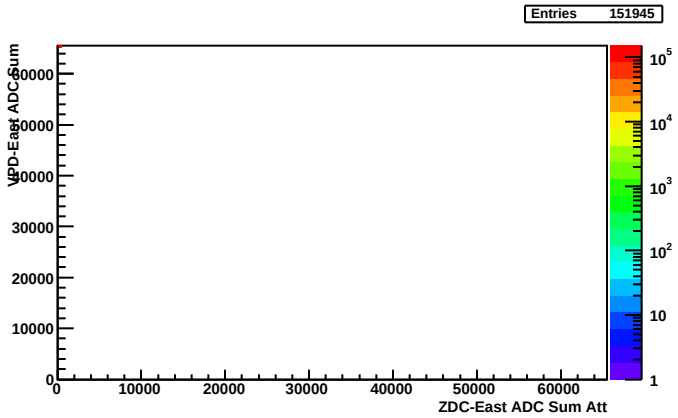

Entries 151945
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

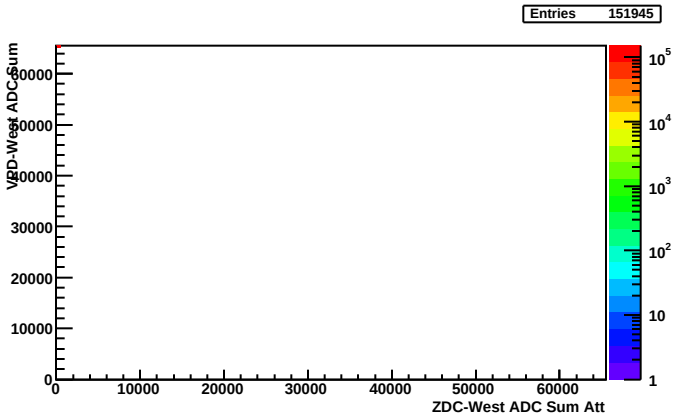

Entries 151945
BBC-S-East ADC Sum
VPD-East ADC Sum

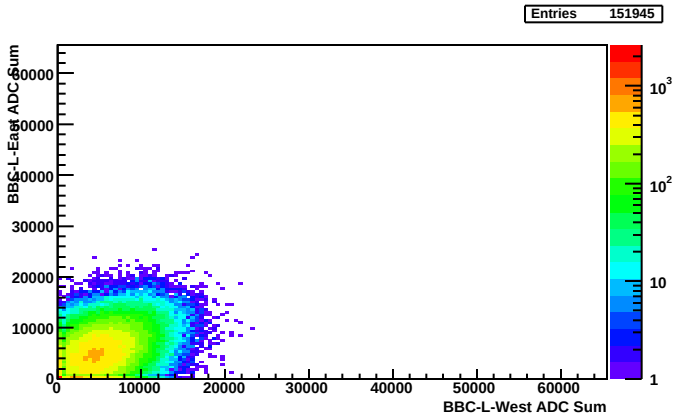

Entries 151945
BBC-S-West ADC Sum
VPD-West ADC Sum

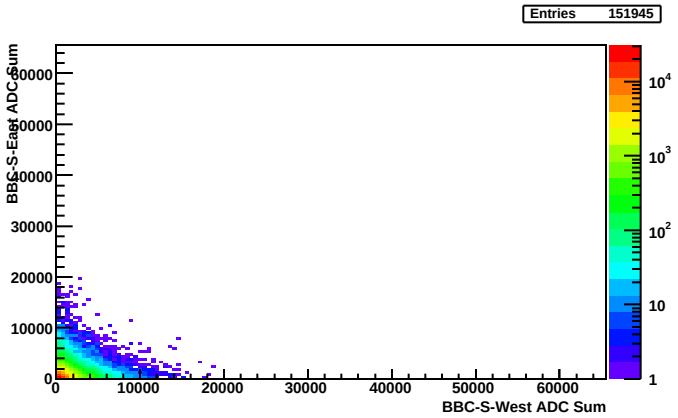

Entries 151945
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

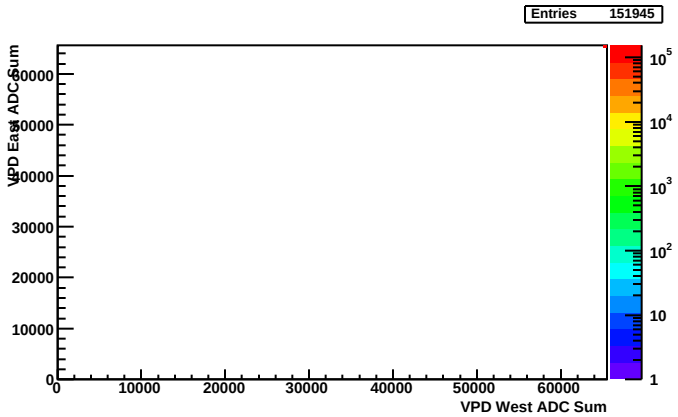

Entries 151945
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

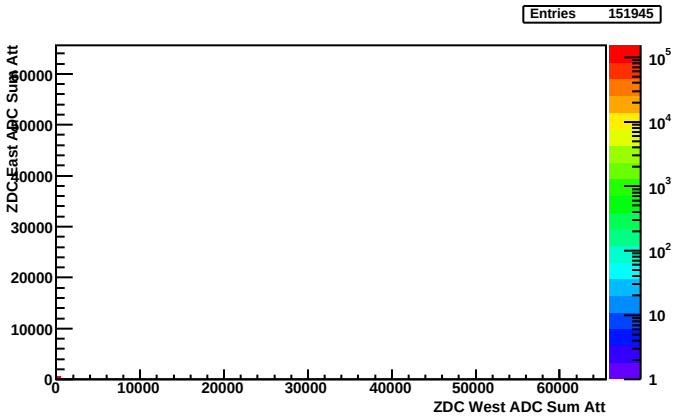

Entries 151945
VPD-East ADC Sum
ZDC-East ADC Sum Att

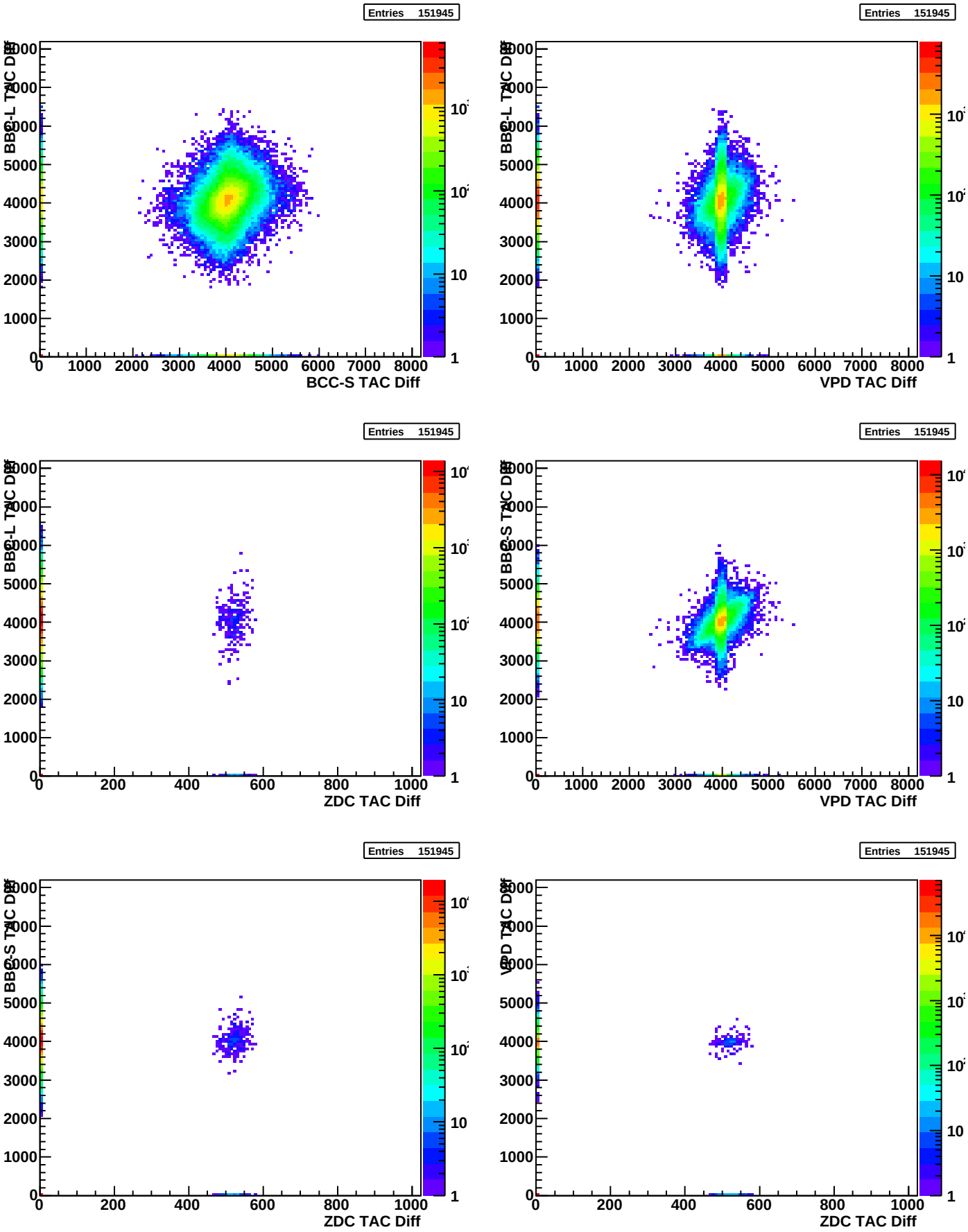

Entries 151945
VPD-West ADC Sum
ZDC-West ADC Sum Att

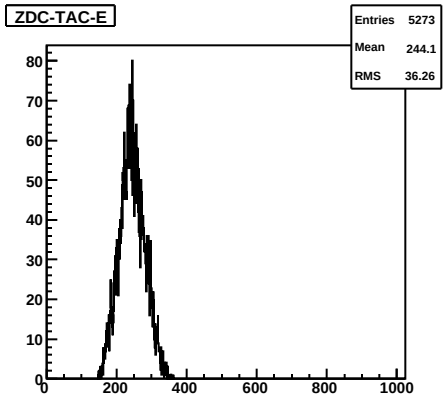

Entries 151945
BBC-L-East ADC Sum
BBC-L-West ADC Sum

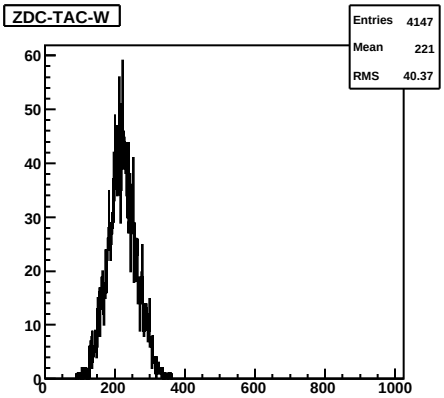

Entries 151945
BBC-S-East ADC Sum
BBC-S-West ADC Sum

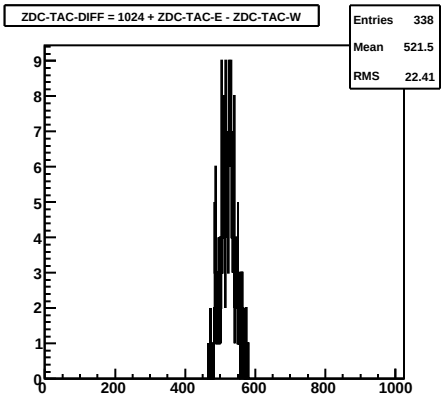

Entries 151945
VPD East ADC Sum
VPD West ADC Sum

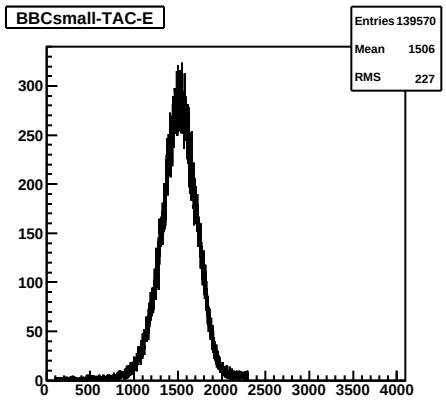

Entries 151945
ZDC East ADC Sum Att
ZDC West ADC Sum Att

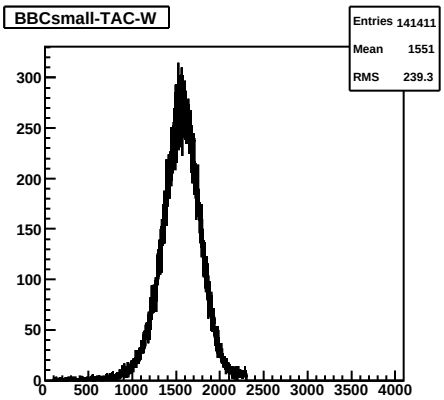

Entries 151945
BBC-L TAC Diff
BCC-S TAC Diff
Entries 151945
BBC-L TAC Diff
VPD TAC Diff
Entries 151945
BBC-L TAC Diff
ZDC TAC Diff
Entries 151945
BBC-S TAC Diff
VPD TAC Diff
Entries 151945
BBC-S TAC Diff
ZDC TAC Diff
Entries 151945
VPD TAC Diff
ZDC TAC Diff

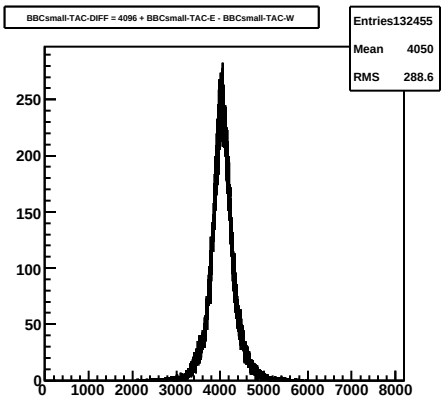

ZDC-TAC-E
Entries 5273
Mean 244.1
RMS 36.26

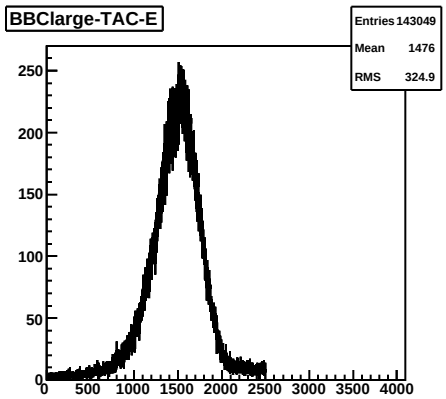

ZDC-TAC-W
Entries 4147
Mean 221
RMS 40.37

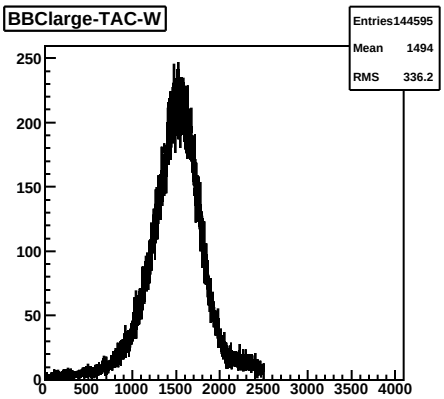

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 338
Mean 521.5
RMS 22.41

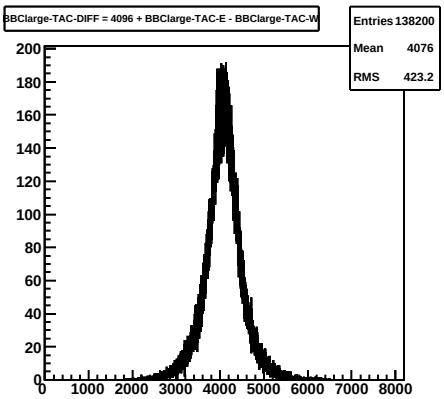

BBCsmall-TAC-E
Entries 139570
Mean 1506
RMS 227

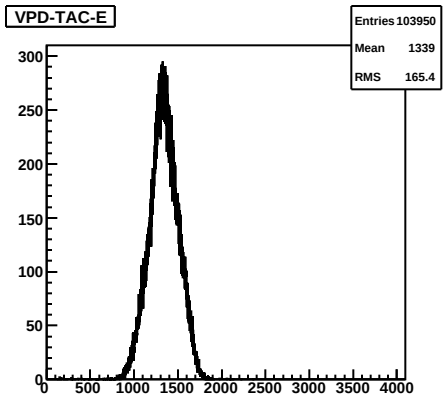

BBCsmall-TAC-W
Entries 141411
Mean 1551
RMS 239.3

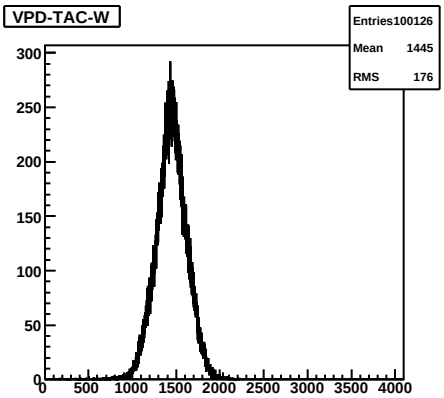

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 132455
Mean 4050
RMS 288.6

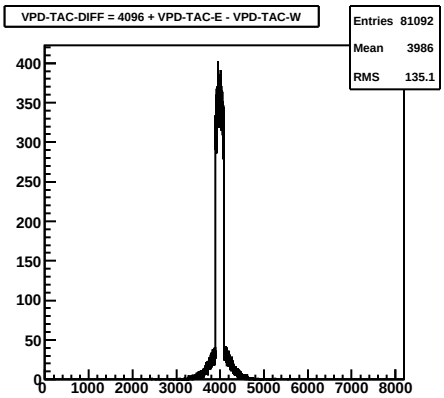

BBClarge-TAC-E
Entries 143049
Mean 1476
RMS 324.9

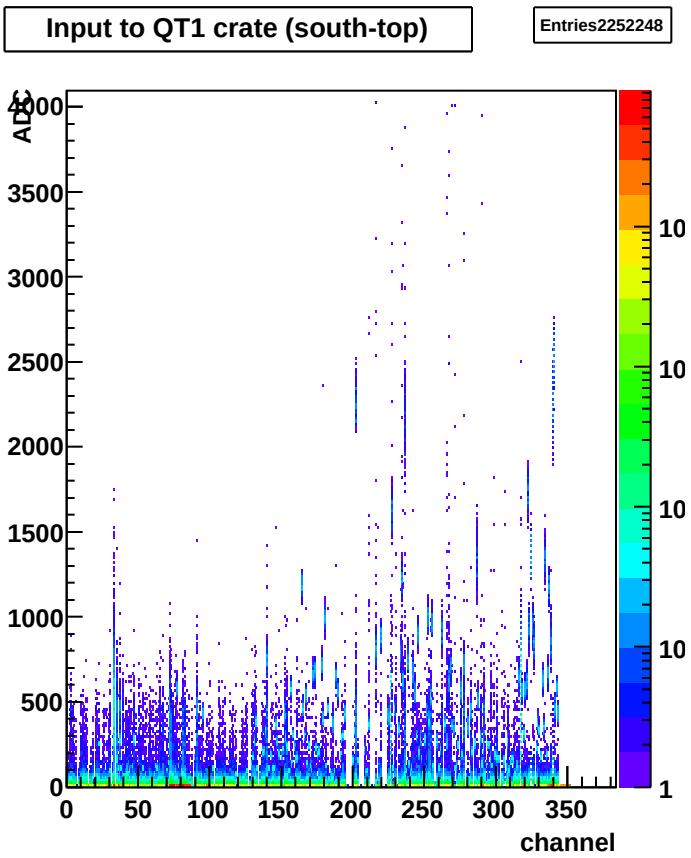

BBClarge-TAC-W
Entries 144595
Mean 1494
RMS 336.2

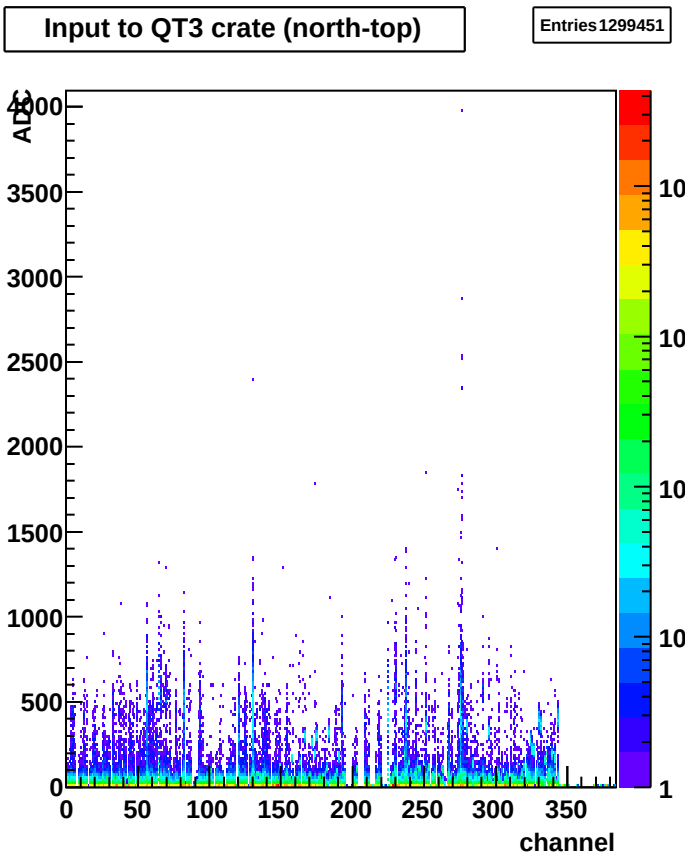

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 138200
Mean 4076
RMS 423.2

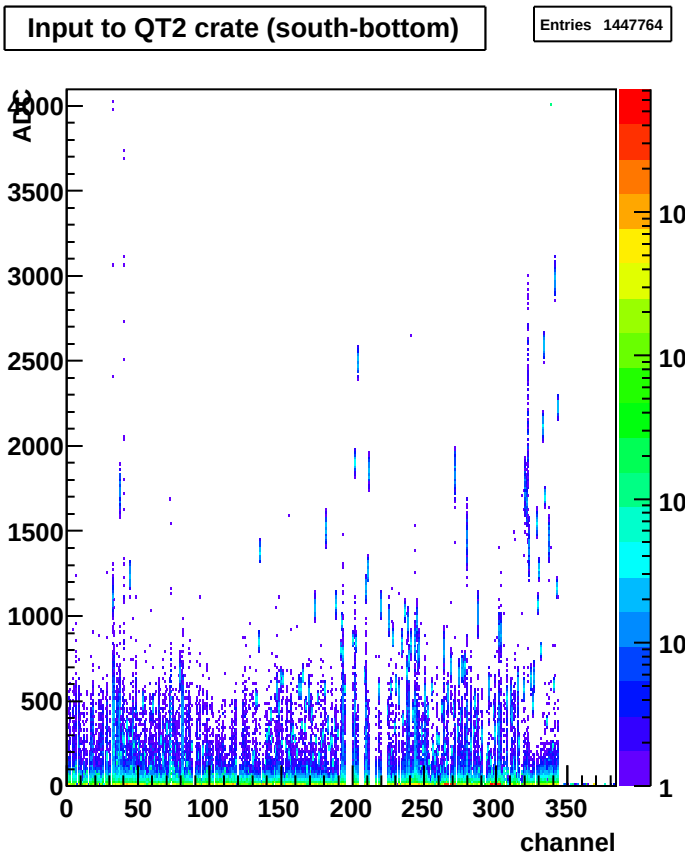

VPD-TAC-E
Entries 103950
Mean 1339
RMS 165.4

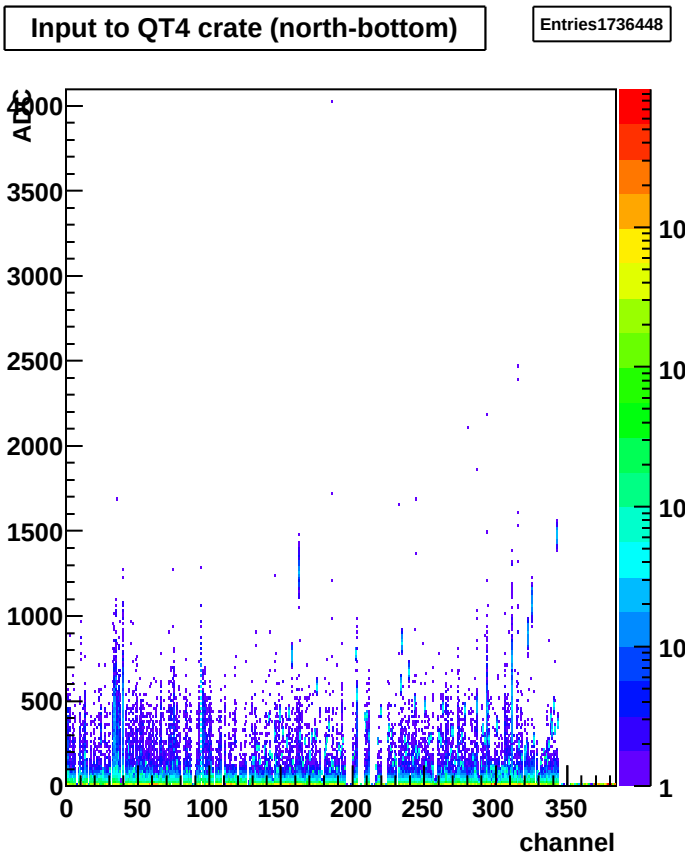

VPD-TAC-W
Entries 100126
Mean 1445
RMS 176

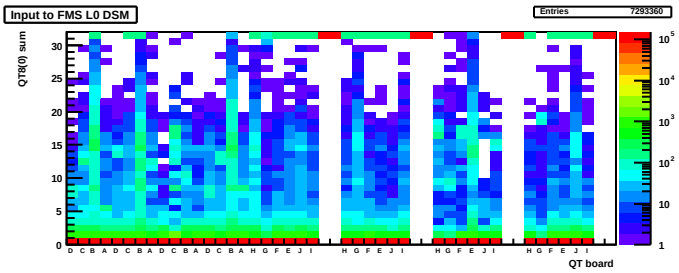

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 81092
Mean 3986
RMS 135.1

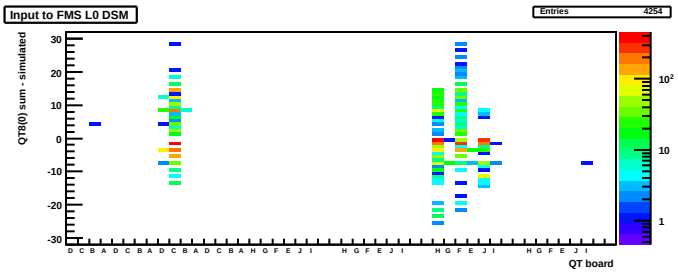

Input to QT1 crate (south-top)
Entries2252248
ADC
channel

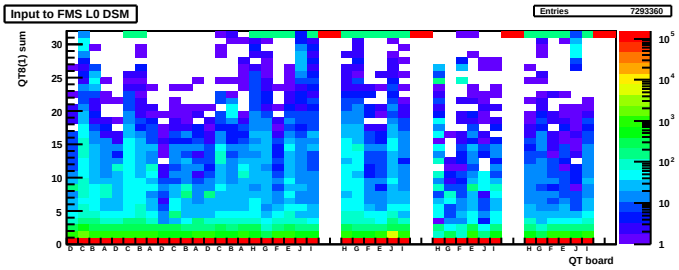

Input to QT3 crate (north-top)
Entries1299451
ADC
channel

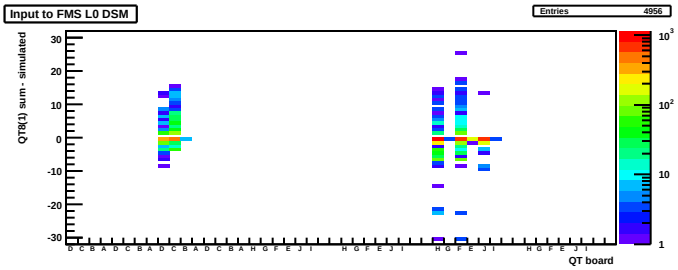

Input to QT2 crate (south-bottom)
Entries 1447764
ADC
channel

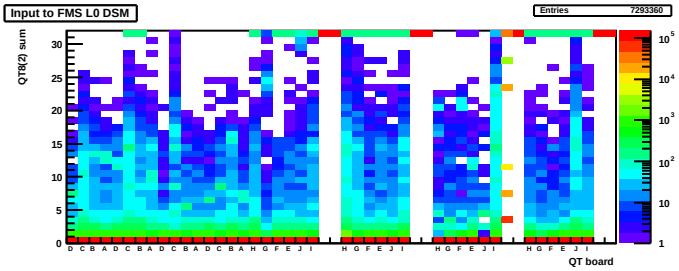

Input to QT4 crate (north-bottom)
Entries1736448
ADC
channel

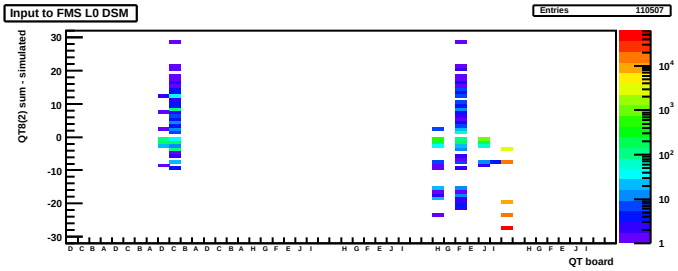

Input to FMS L0 DSM
Entries 7293360
QT8(0) sum
QT board

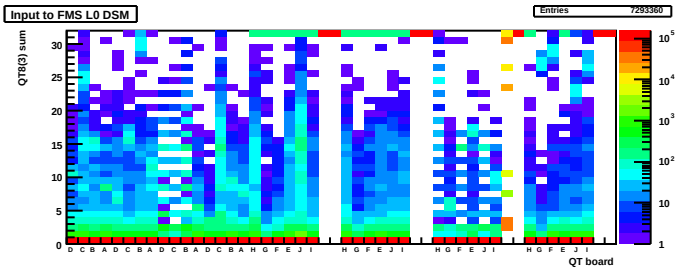

Input to FMS L0 DSM
Entries 4254
QT8(0) sum - simulated
QT board

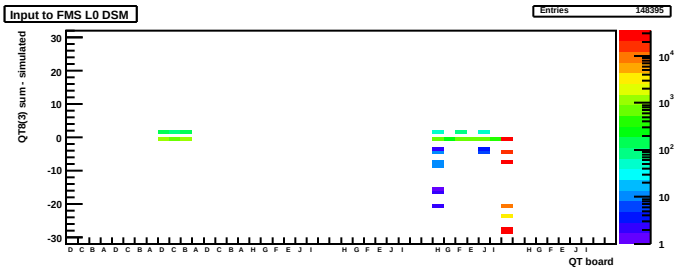

Input to FMS L0 DSM
Entries 7293360
QT8(1) sum
QT board

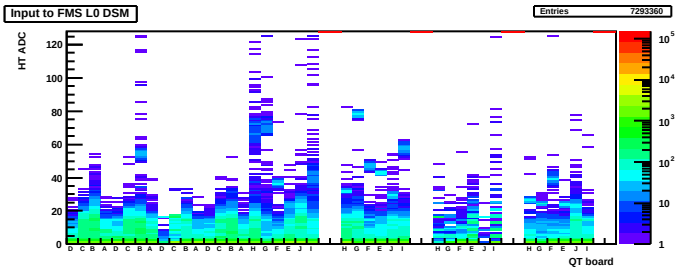

Input to FMS L0 DSM
Entries 4956
QT8(1) sum - simulated
QT board

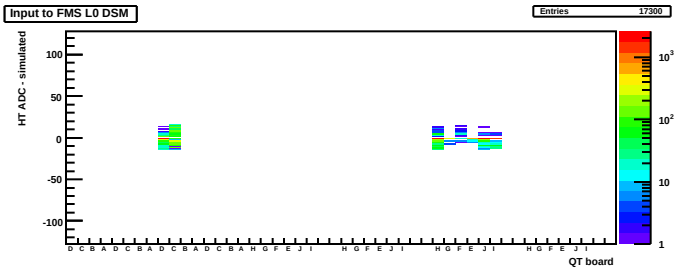

Input to FMS L0 DSM
Entries 7293360
QT8(2) sum
QT board

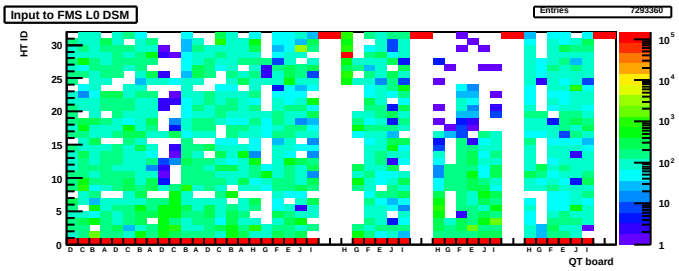

Input to FMS L0 DSM
Entries 110507
QT8(2) sum - simulated
QT board

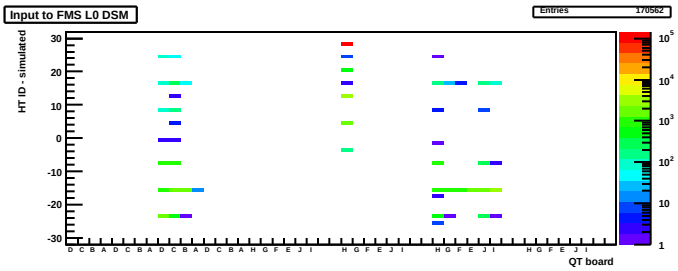

Input to FMS L0 DSM
Entries 7293360
QT8(3) sum
QT board

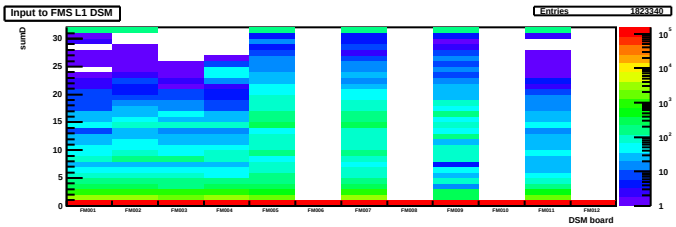

Input to FMS L0 DSM
Entries 148395
QT8(3) sum - simulated
QT board

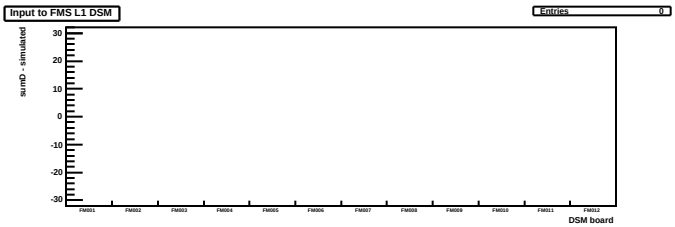

Input to FMS L0 DSM
Entries 7293360
HT ADC
QT board

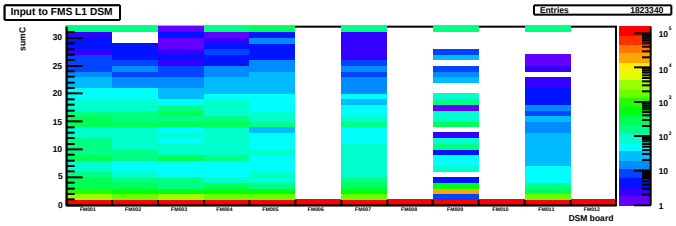

Input to FMS L0 DSM
Entries 17300
HT ADC - simulated
QT board

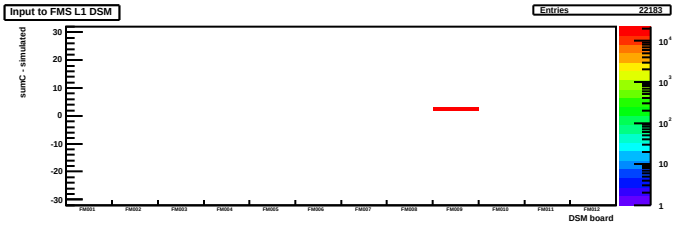

Input to FMS L0 DSM
Entries 7293360
HT ID
QT board

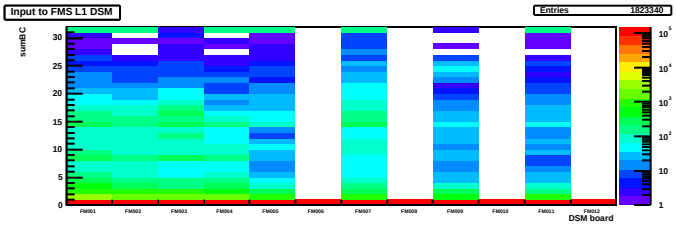

Input to FMS L0 DSM
Entries 170562
HT ID - simulated
QT board

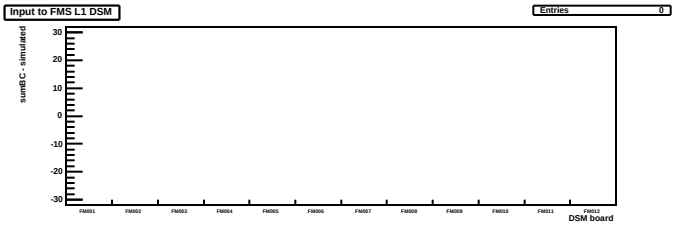

Input to FMS L1 DSM
Entries 1823340
sumD
DSM board

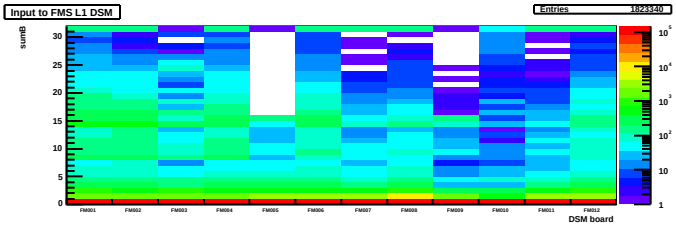

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

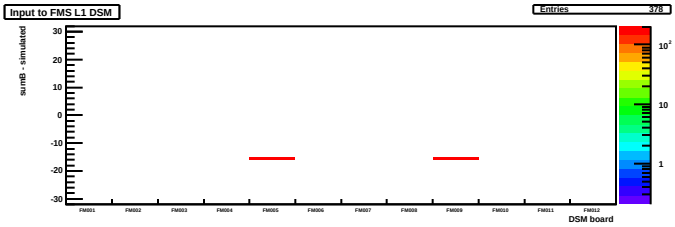

Input to FMS L1 DSM
Entries 1823340
sumC
DSM board

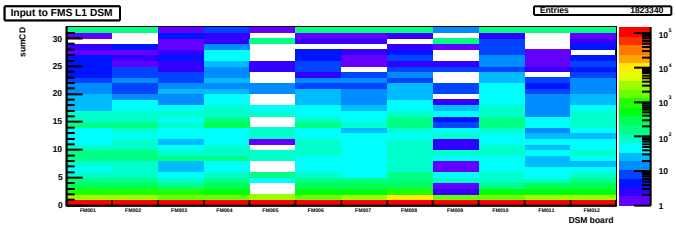

Input to FMS L1 DSM
Entries 22183
sumC - simulated
DSM board

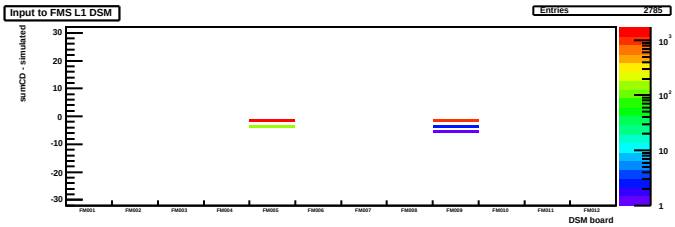

Input to FMS L1 DSM
Entries 1823340
sumBC
DSM board

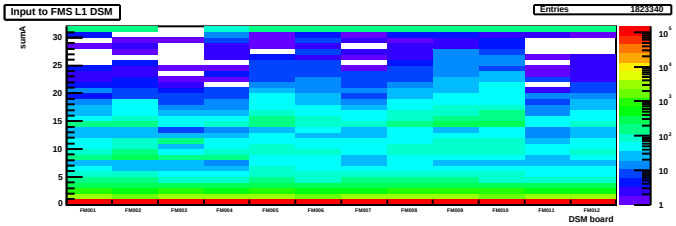

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

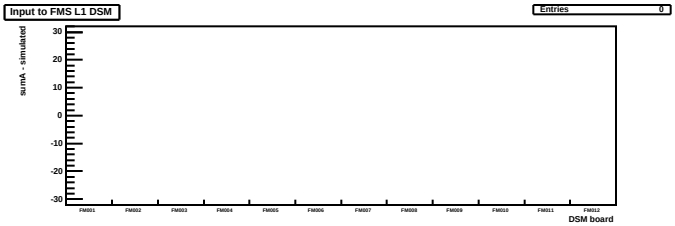

Input to FMS L1 DSM
Entries 1823340
sumB
DSM board

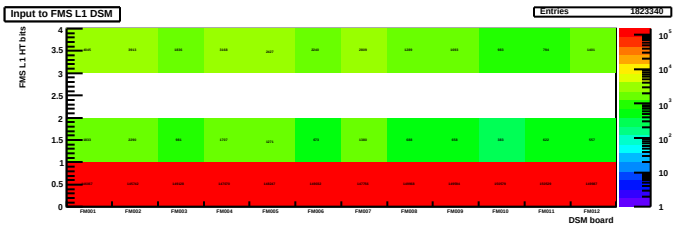

Input to FMS L1 DSM
Entries 378
sumB - simulated
DSM board

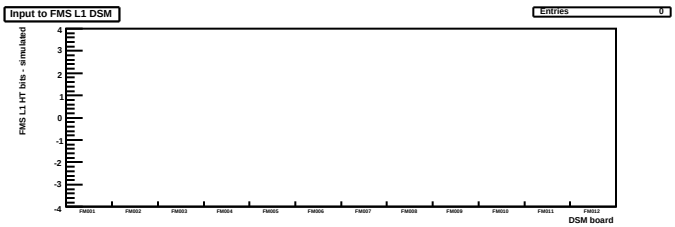

Input to FMS L1 DSM
Entries 1823340
sumCD
DSM board

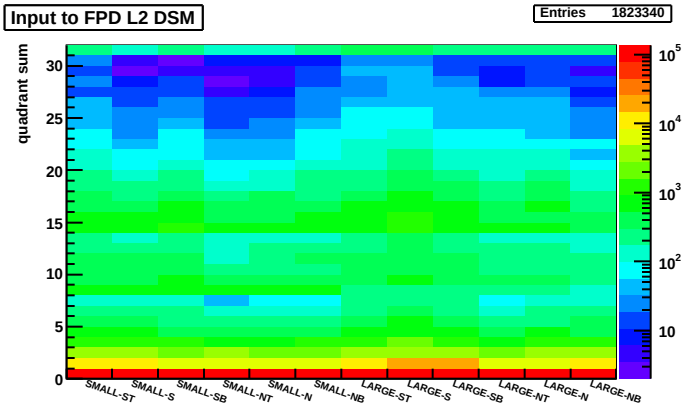

Input to FMS L1 DSM
Entries 2785
sumCD - simulated
DSM board

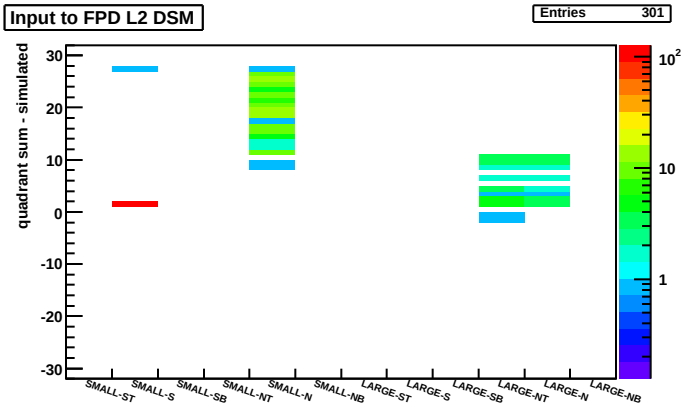

Input to FMS L1 DSM
Entries 1823340
sumA
DSM board

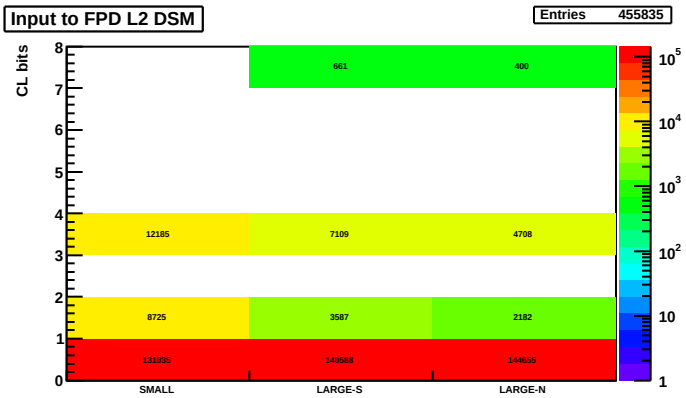

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

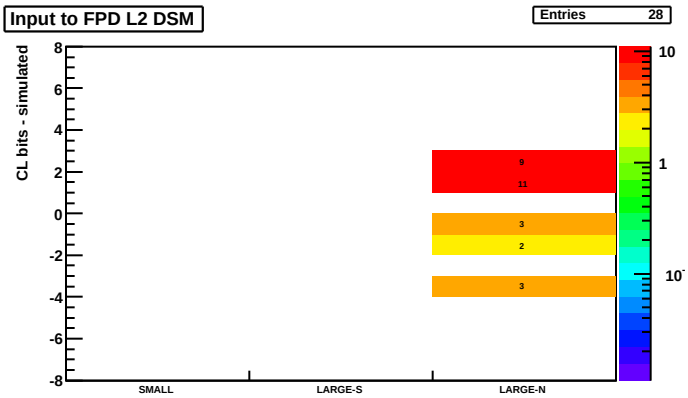

Input to FMS L1 DSM
Entries 1823340
FMS L1 HT bits
DSM board

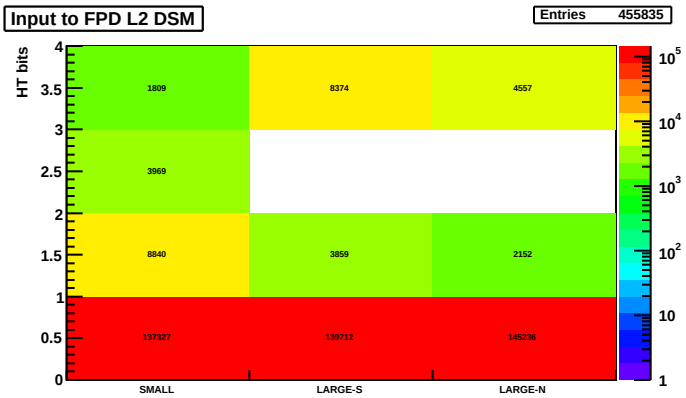

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

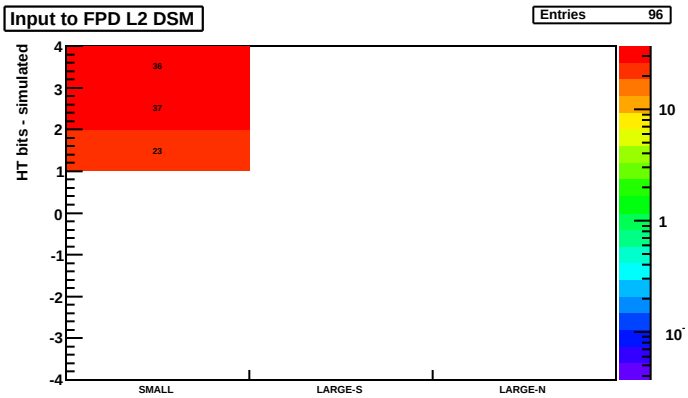

Input to FPD L2 DSM
Entries 1823340
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

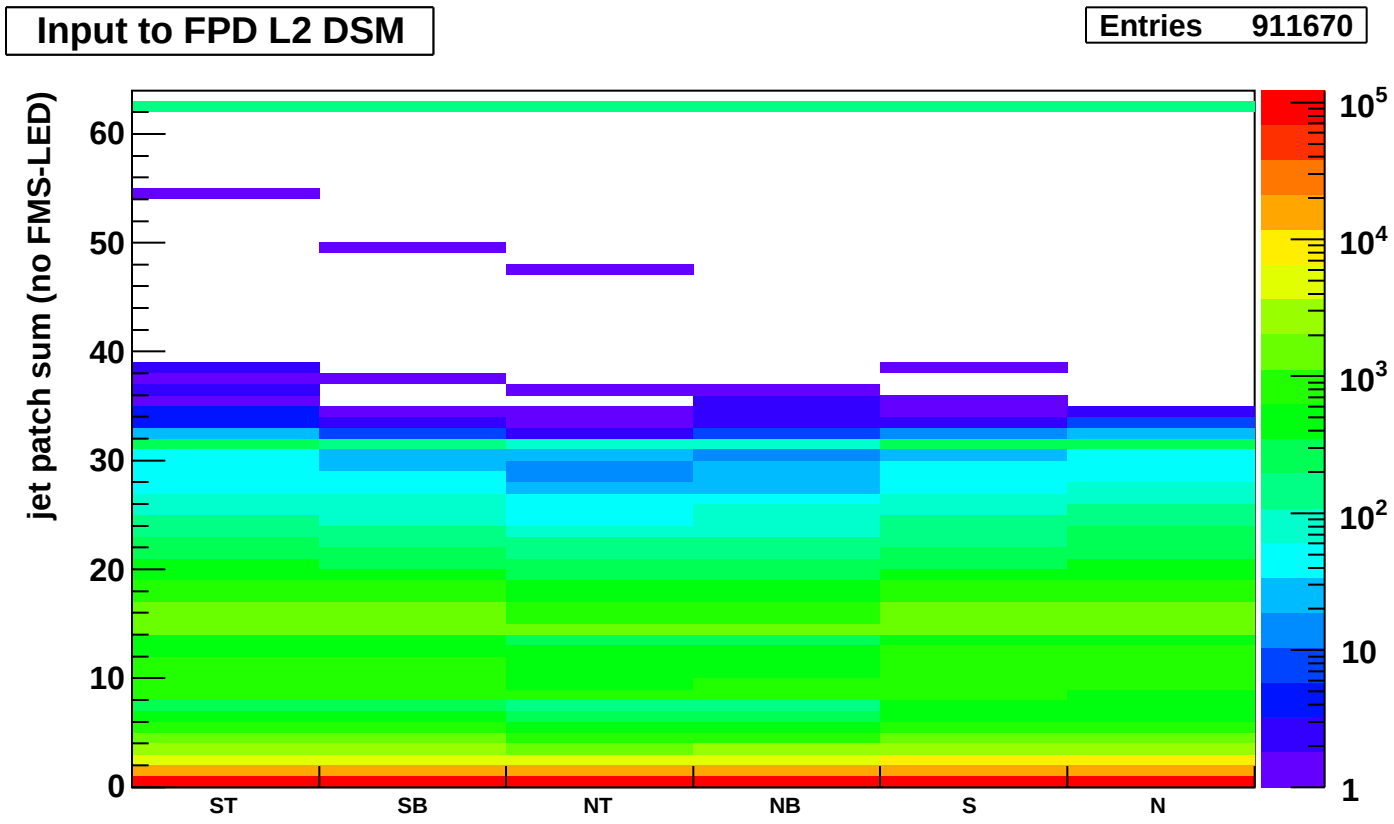

Input to FPD L2 DSM
Entries 301
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

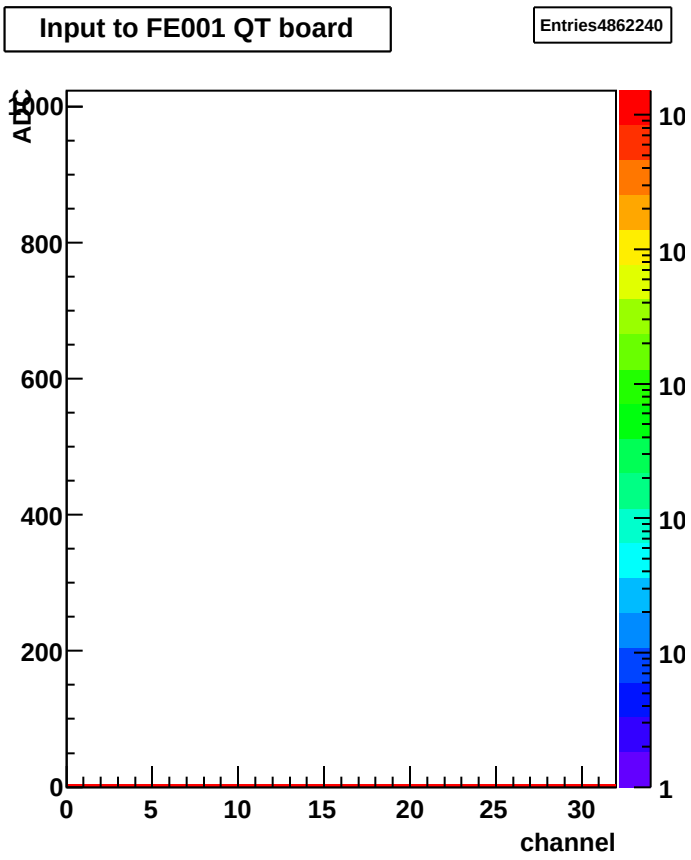

Input to FPD L2 DSM
Entries 455835
CL bits
661
400
12185
7109
4708
8725
3587
2182
131035
140588
144655
SMALL
LARGE-S
LARGE-N

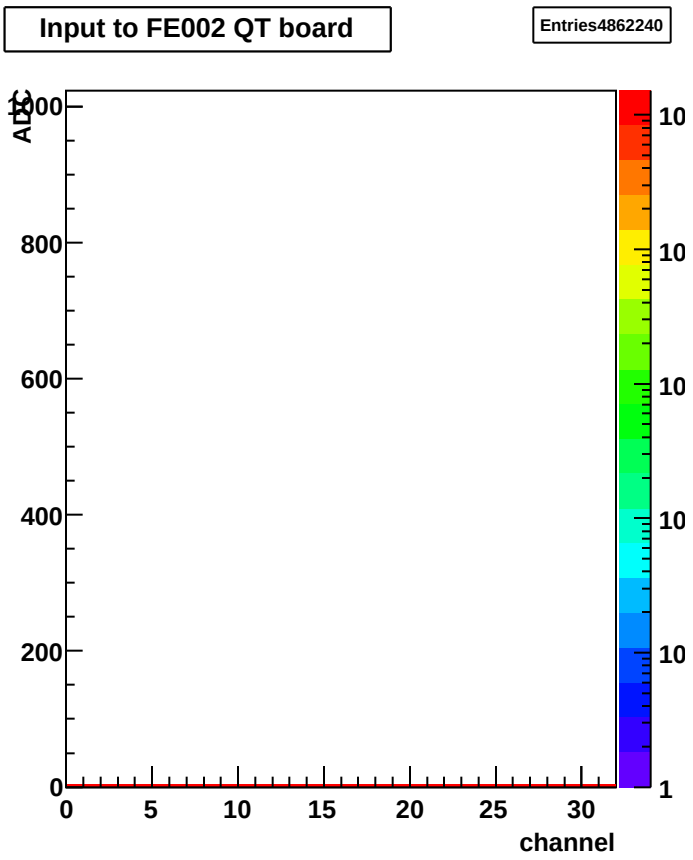

Input to FPD L2 DSM
Entries 28
CL bits - simulated
9
11
3
2
3
SMALL
LARGE-S
LARGE-N

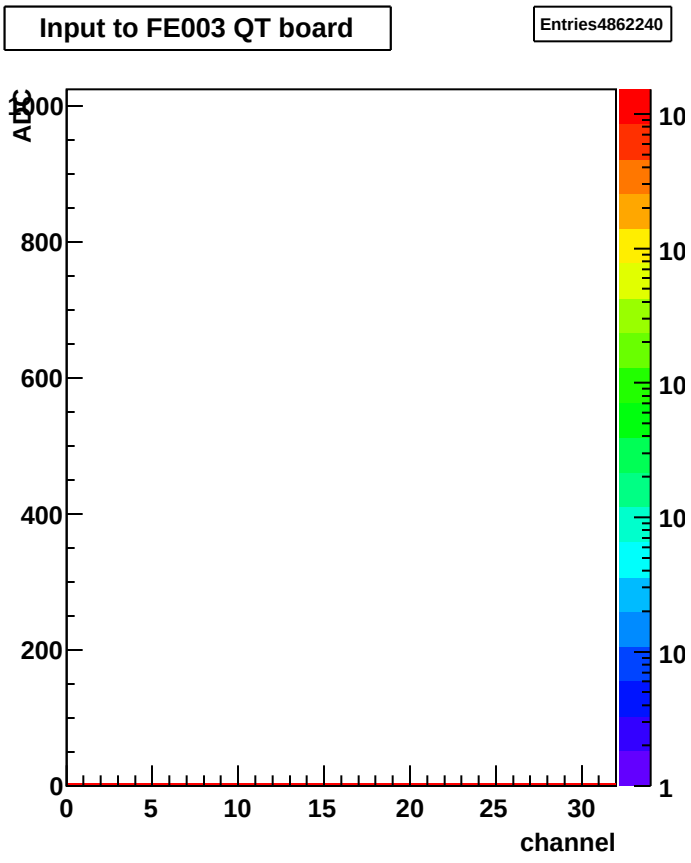

Input to FPD L2 DSM
Entries 455835
HT bits
1809
8374
4557
3969
8840
3859
2152
137327
139712
145236
SMALL
LARGE-S
LARGE-N

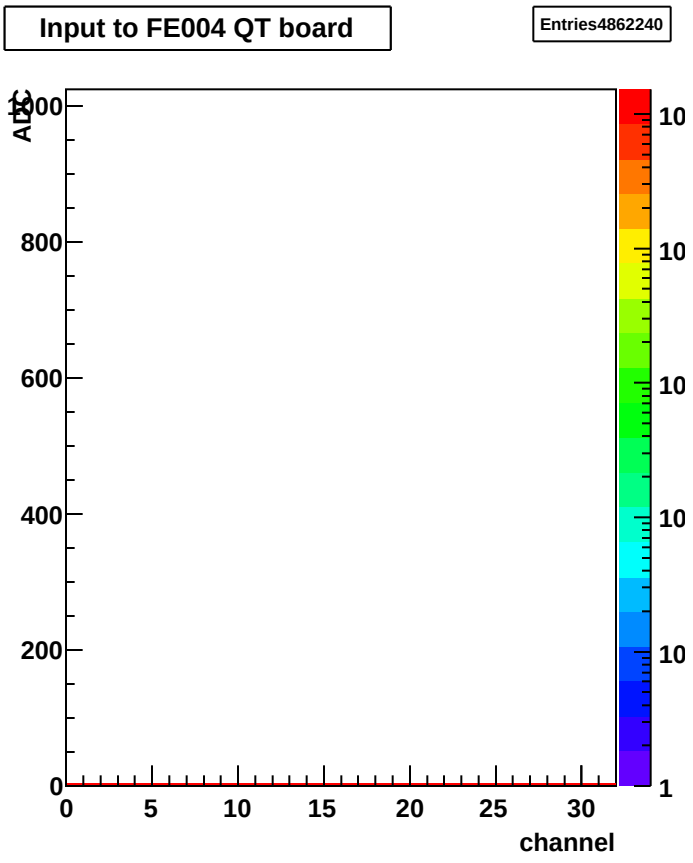

Input to FPD L2 DSM
Entries 96
HT bits - simulated
36
37
23
SMALL
LARGE-S
LARGE-N

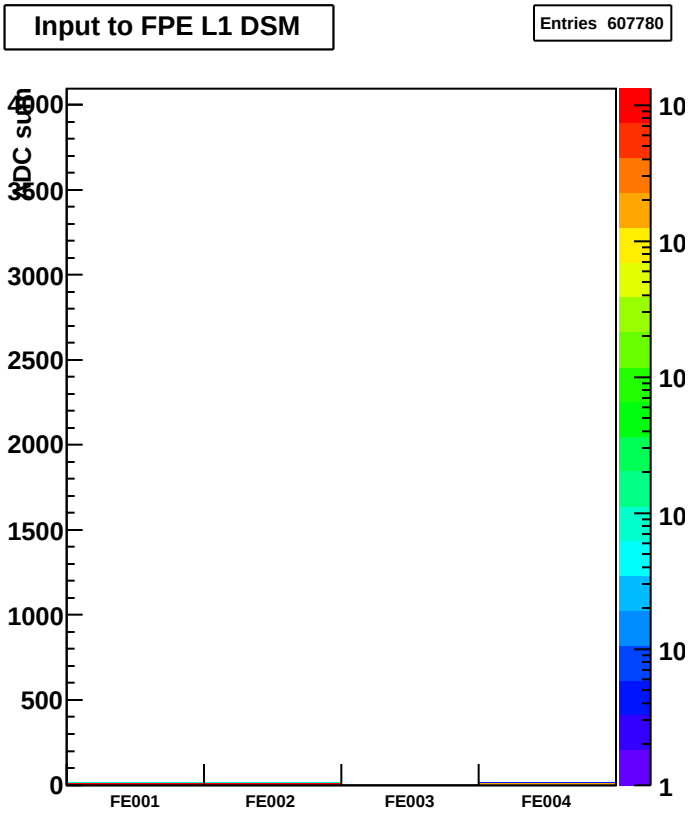

Input to FPD L2 DSM
Entries 911670
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

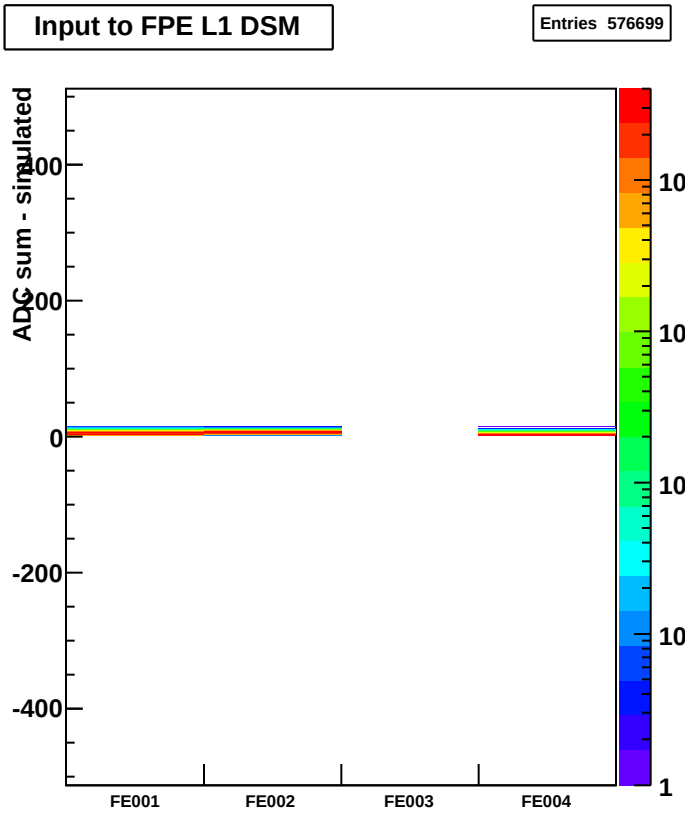

Input to FE001 QT board
Entries4862240
ADC
channel

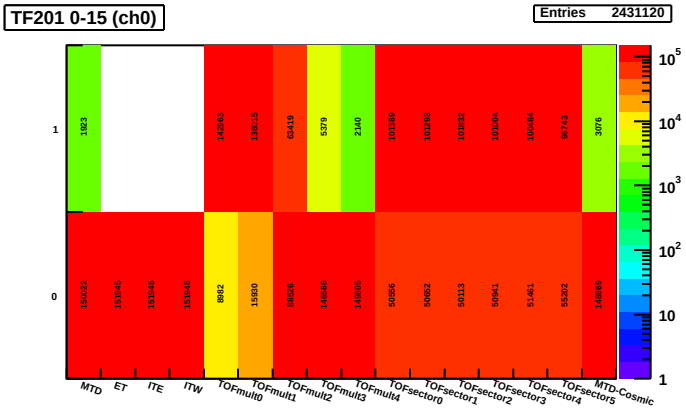

Input to FE002 QT board
Entries4862240
ADC
channel

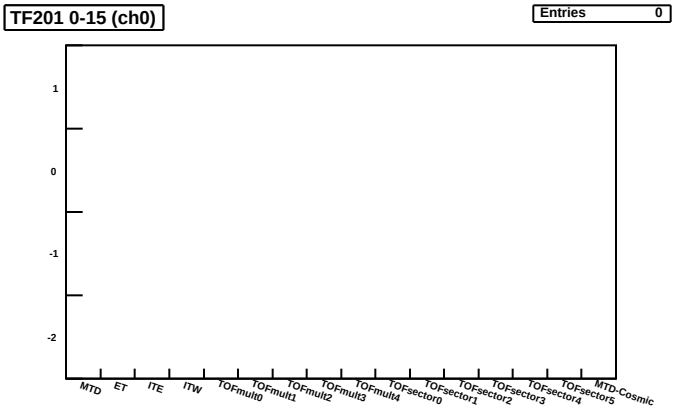

Input to FE003 QT board
Entries4862240
ADC
channel

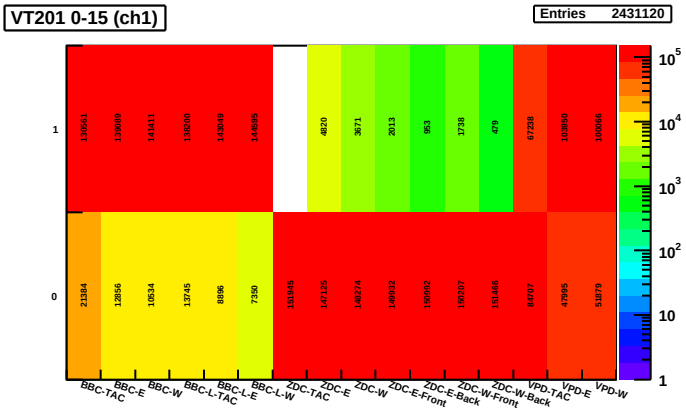

Input to FE004 QT board
Entries4862240
ADC
channel

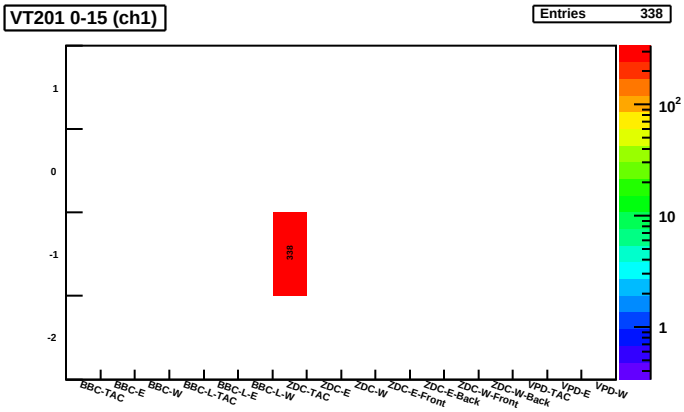

Input to FPE L1 DSM
Entries 607780
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

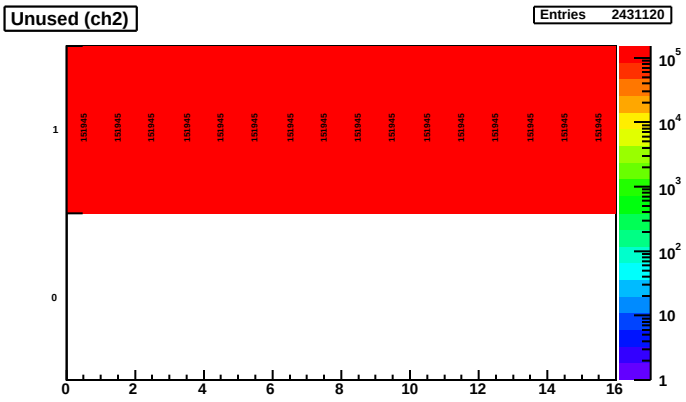

Input to FPE L1 DSM
Entries 576699
ADC sum - simulated
200
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1

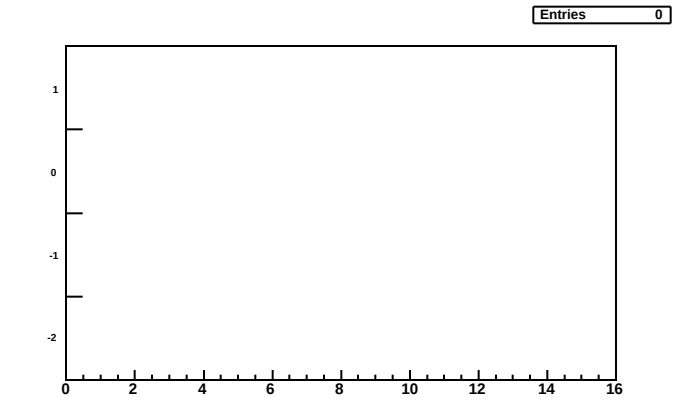

TF201 0-15 (ch0)
Entries 2431120
1 1923 142963 136015 63419 5379 2140 101389 101293 101322 101304 100624 96743 3076
0 150022 151945 151945 151945 8982 15930 88526 146566 149805 50556 50652 50113 50941 51461 55202 148869
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic
10^5 10^4 10^3 10^2 10 1

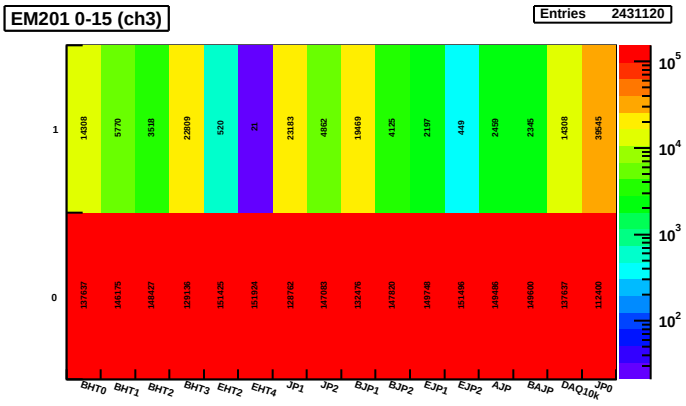

TF201 0-15 (ch0)
Entries 0
1 0 -1 -2
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

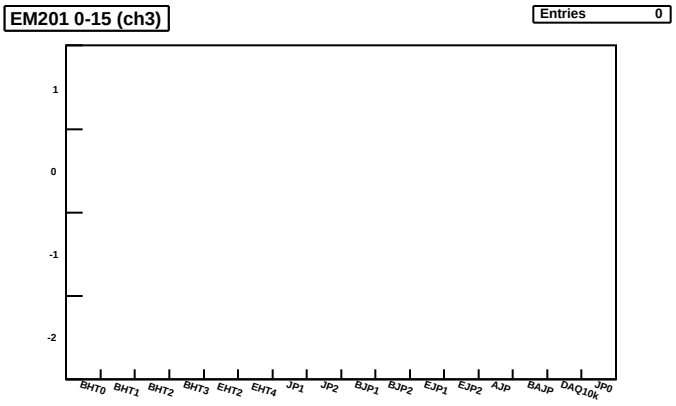

VT201 0-15 (ch1)
Entries 2431120
1 130561 139089 144411 138200 143049 146595 4820 3671 2013 963 1738 479 67238 103950 100056
0 21384 12856 10534 13745 8896 7350 151945 147125 148274 149932 150992 150207 151466 84707 47995 51979
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W
10^5 10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 338
1 0 -1 -2
338
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
10^2 10 1

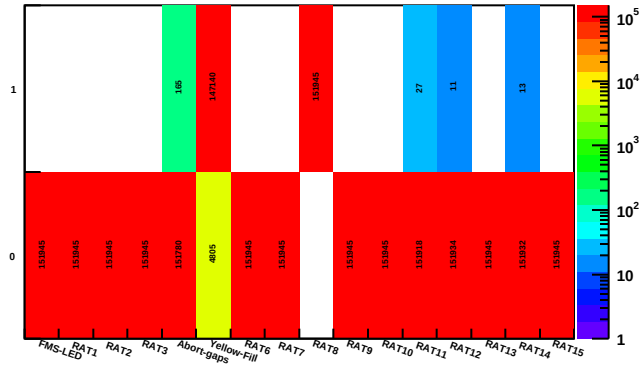

Unused (ch2)
Entries 2431120
1 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945 151945
0
0 2 4 6 8 10 12 14 16
10^5 10^4 10^3 10^2 10 1

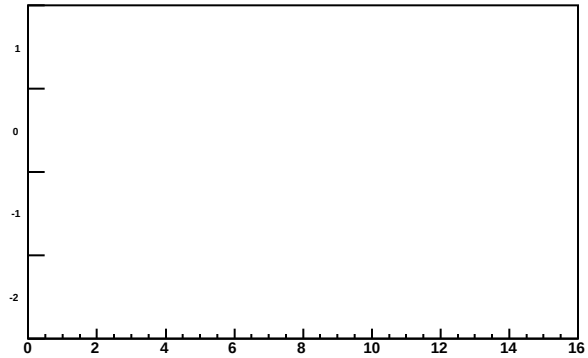

Entries 0
1 0 -1 -2
0 2 4 6 8 10 12 14 16


EM201 0-15 (ch3)
Entries 2431120
1 14308 5770 3538 22809 520 21 23183 4862 19469 4125 2197 449 2459 2345 14308 39545
0 137637 146175 149427 129136 151425 151924 129762 147083 132476 147820 149748 151406 149486 149600 137637 112400
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0
10^5 10^4 10^3 10^2

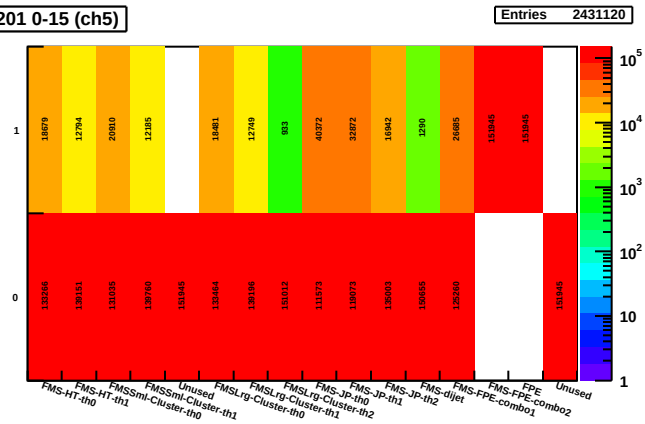

EM201 0-15 (ch3)
Entries 0
1 0 -1 -2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

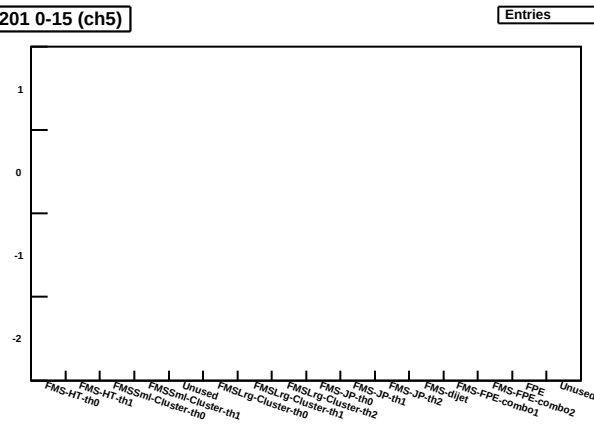




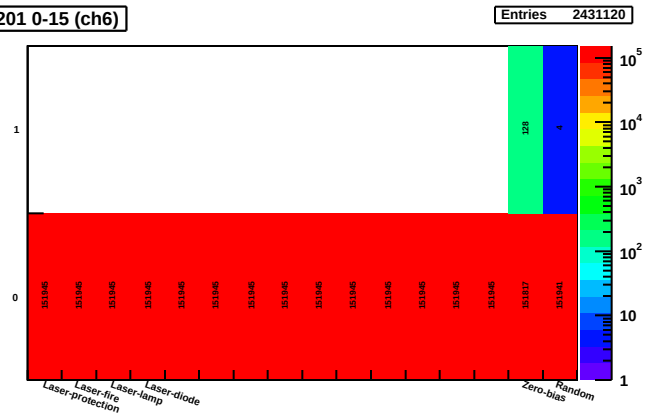
FP201 0-15 (ch5)

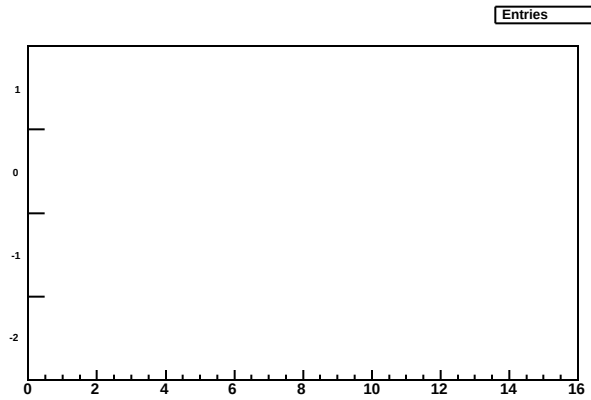
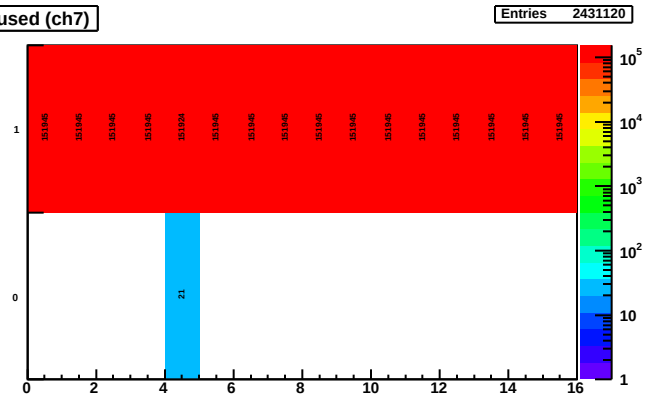
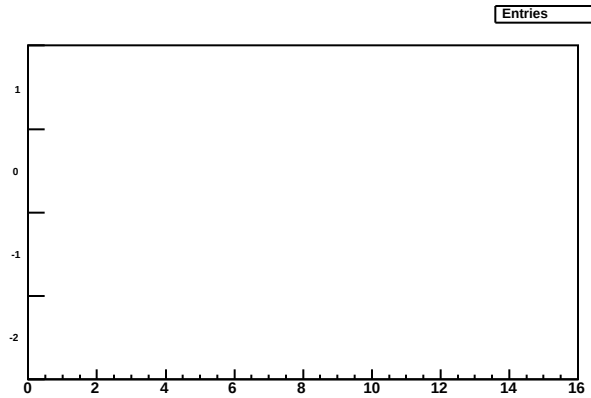


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)