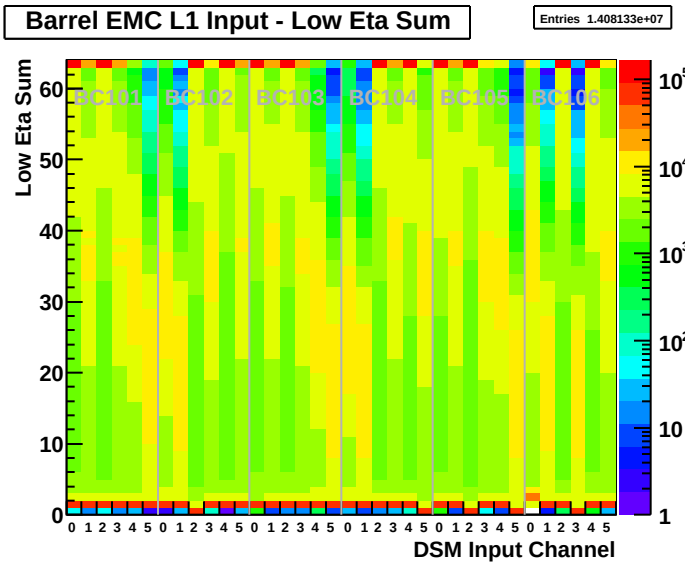
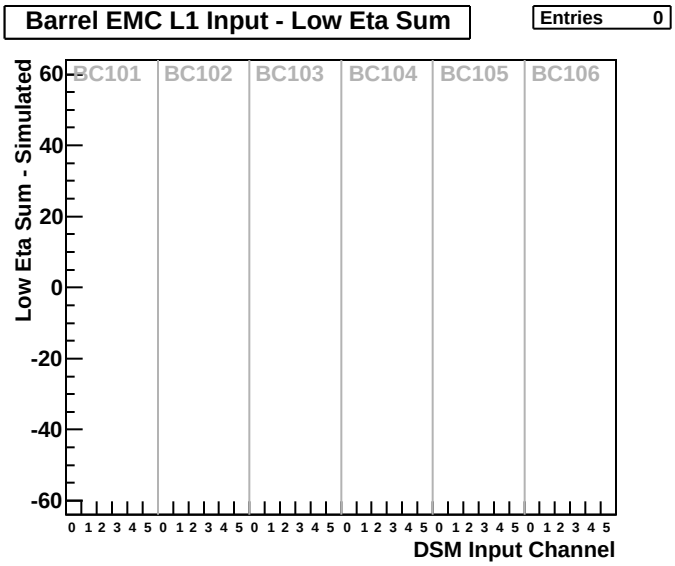
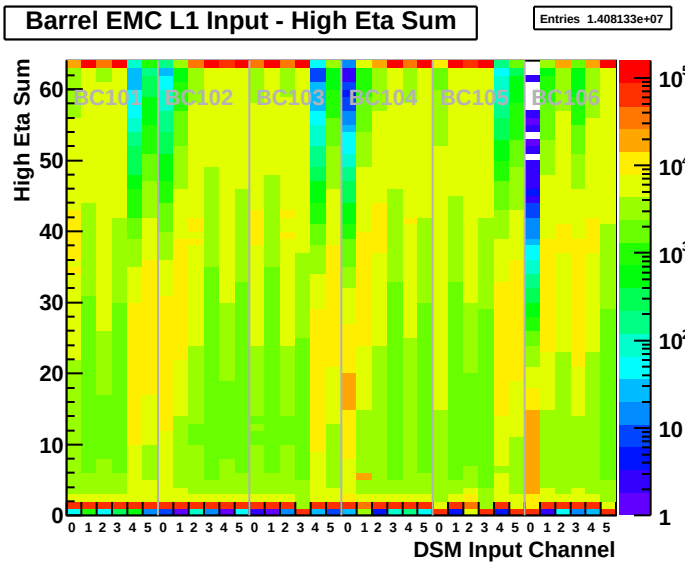
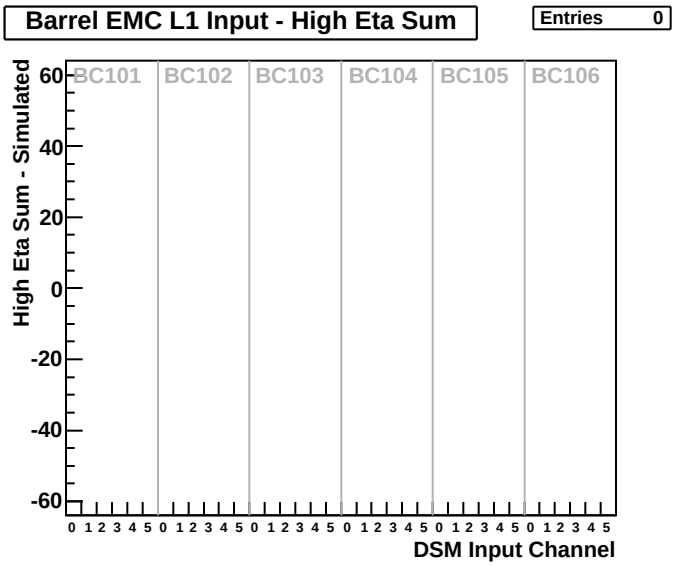
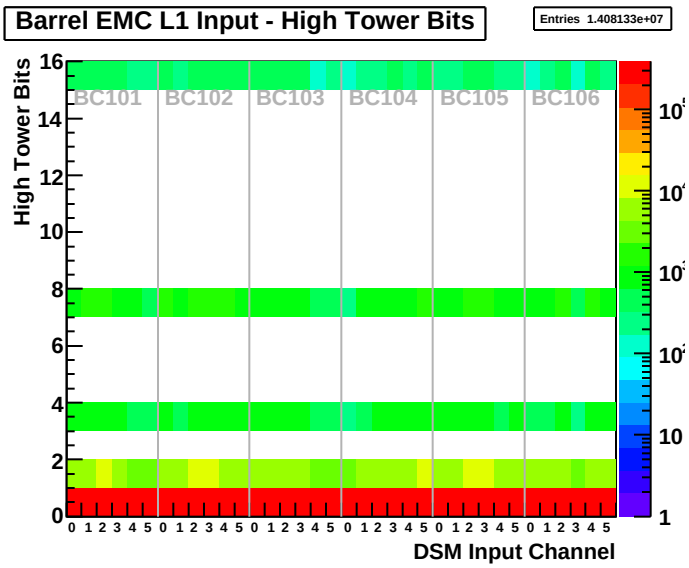
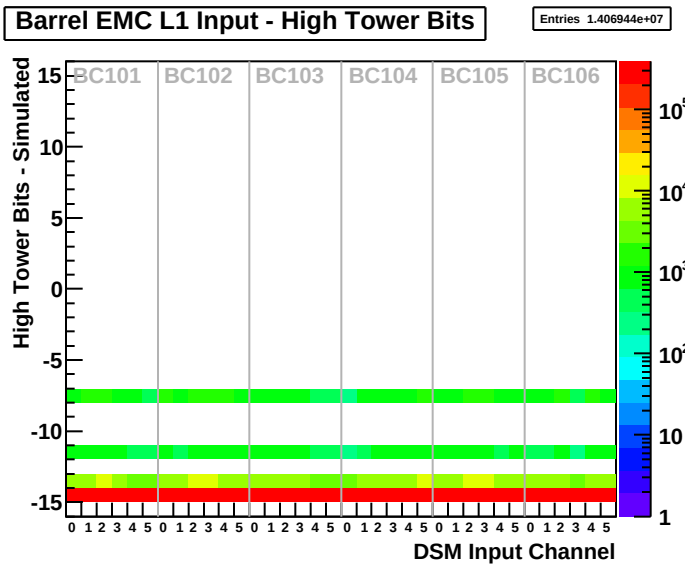

Barrel EMC L1 Input - Low Eta Sum
Entries 1.408133e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

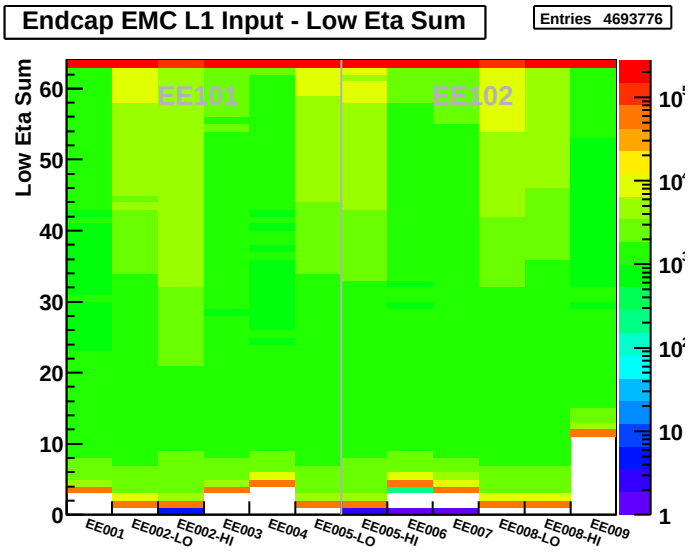

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

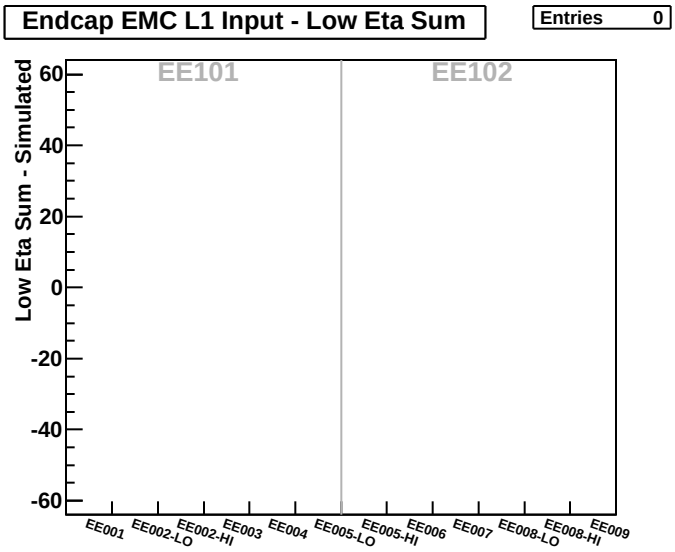

Barrel EMC L1 Input - High Eta Sum
Entries 1.408133e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

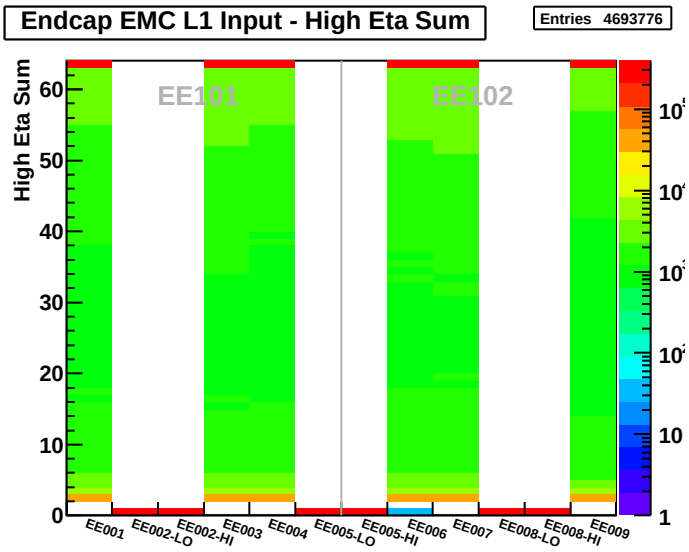

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

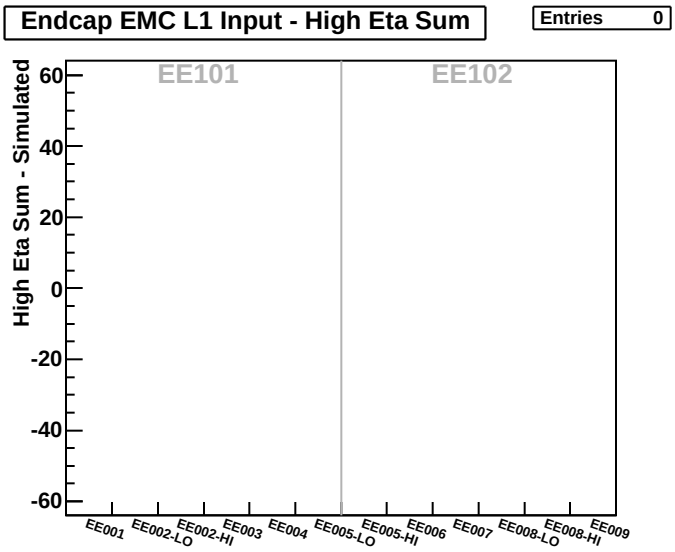

Barrel EMC L1 Input - High Tower Bits
Entries 1.408133e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

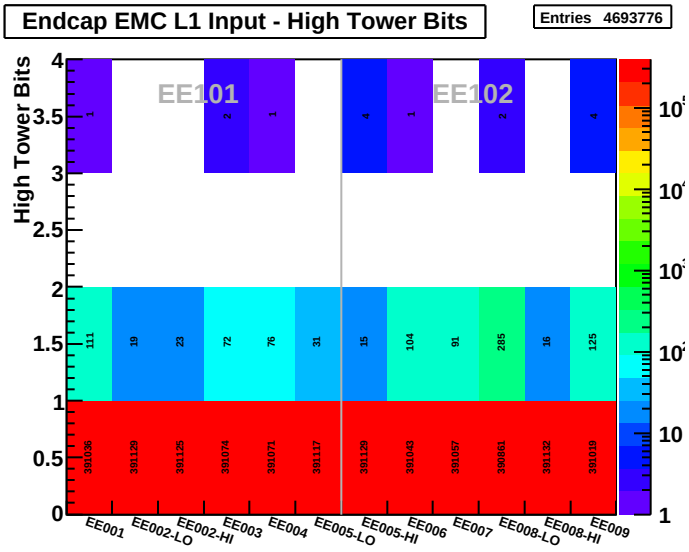

Barrel EMC L1 Input - High Tower Bits
Entries 1.406944e+07
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

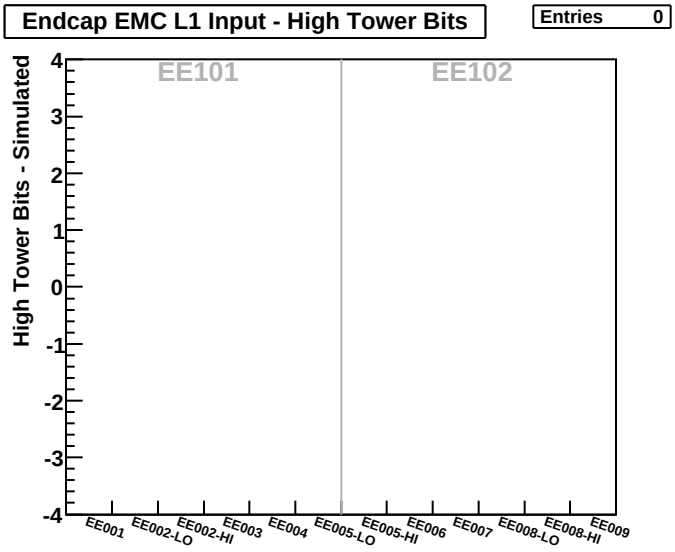

Endcap EMC L1 Input - Low Eta Sum
Entries 4693776
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

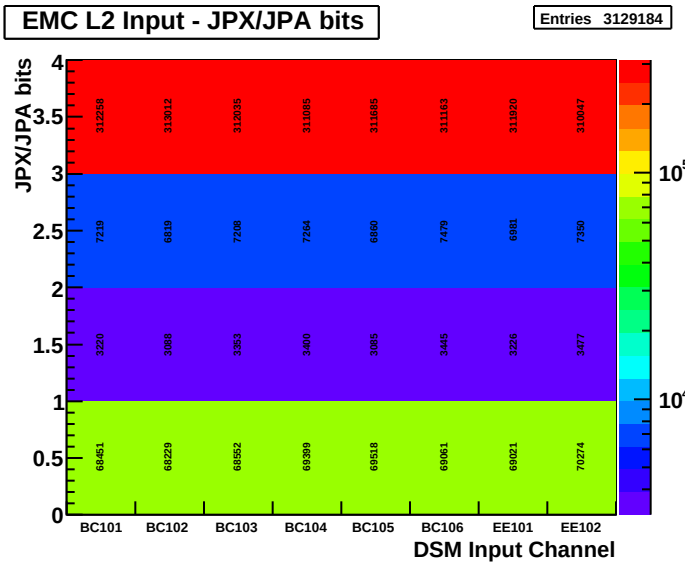

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

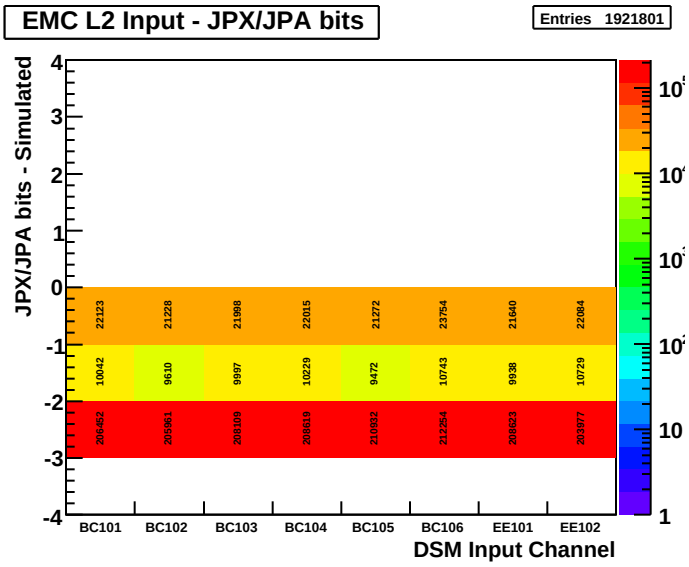

Endcap EMC L1 Input - High Eta Sum
Entries 4693776
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

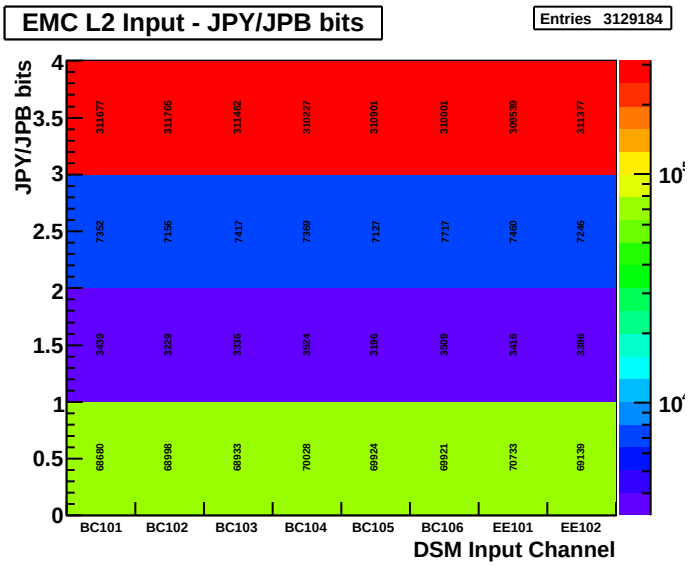

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

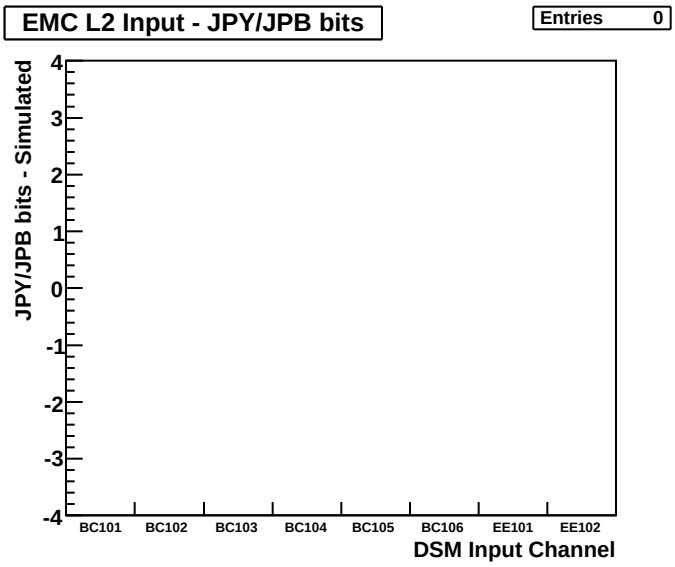

Endcap EMC L1 Input - High Tower Bits
Entries 4693776
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

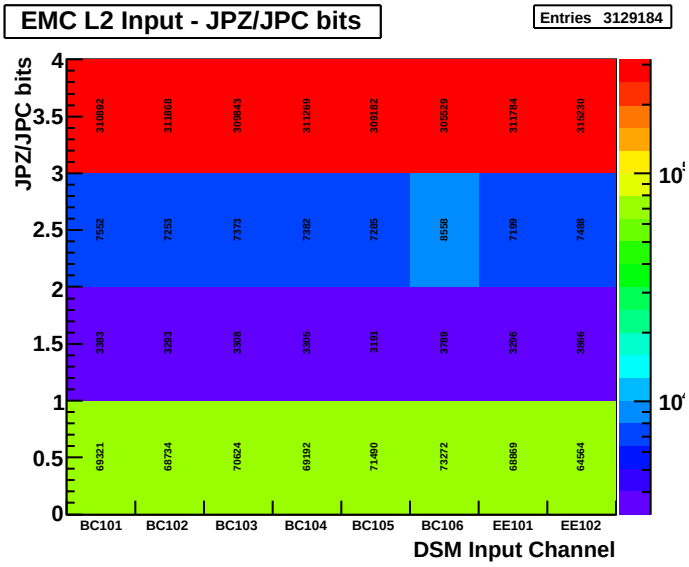

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

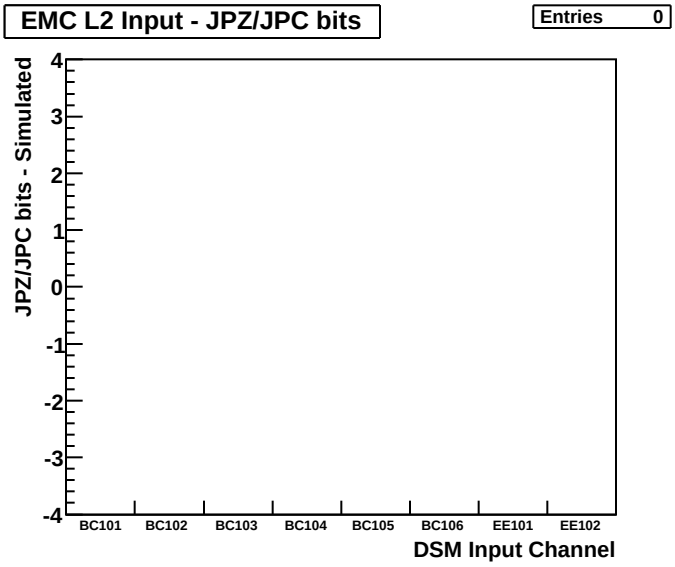

EMC L2 Input - JPX/JPA bits
Entries 3129184
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
312258 313012 312035 311085 311685 311163 311920 310047
7219 6819 7208 7264 6860 7479 6981 7350
3220 3038 3353 3400 3085 3445 3226 3477
68451 68229 68552 69309 69518 69061 69021 70274

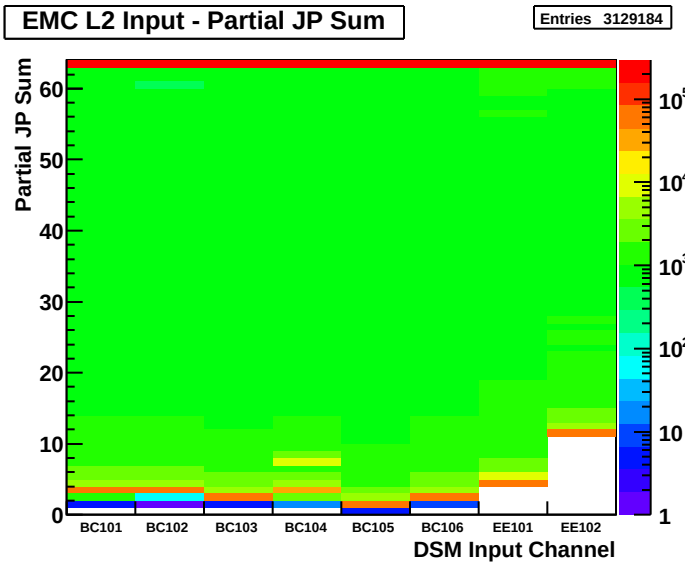

EMC L2 Input - JPX/JPA bits
Entries 1921801
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
22123 21228 21998 22015 21272 23754 21640 22084
10042 9610 9997 10229 9472 10743 9938 10729
206452 205961 208109 208619 210932 212254 208623 203977

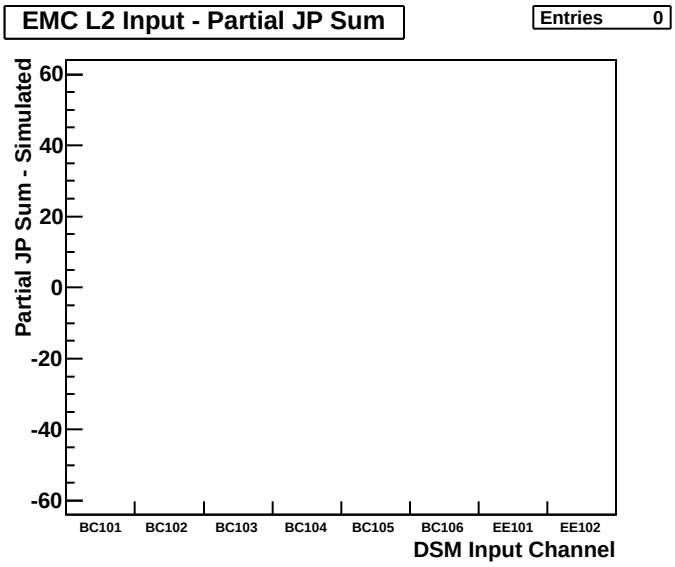

EMC L2 Input - JPY/JPB bits
Entries 3129184
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
311677 311765 311462 310227 310901 310001 309539 311377
7352 7166 7417 7369 7127 7717 7460 7246
3439 3229 3336 3324 3196 3509 3416 3386
68680 68998 68933 70028 69924 69921 70733 69139

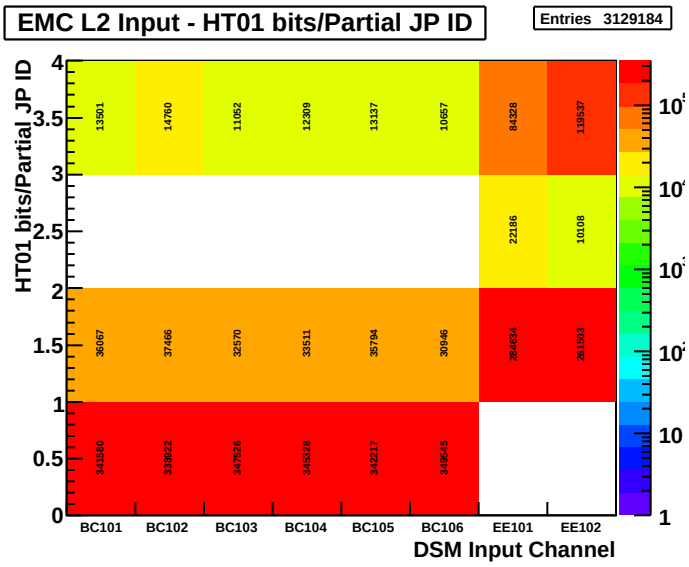

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

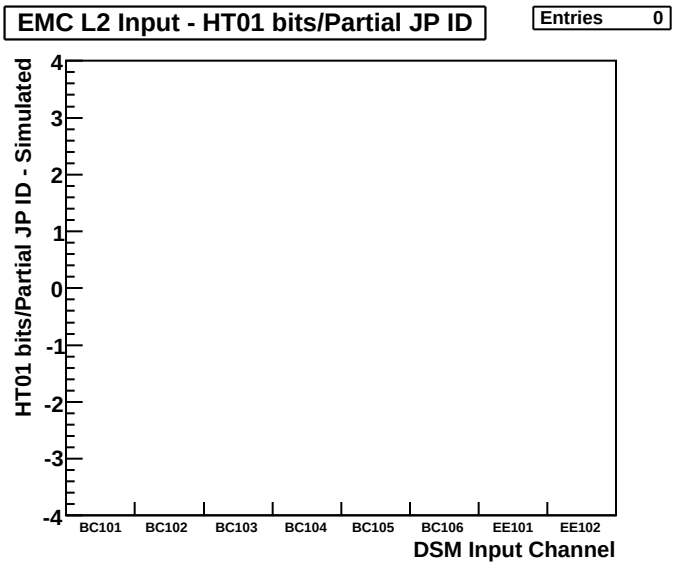

EMC L2 Input - JPZ/JPC bits
Entries 3129184
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
310692 313868 309843 312269 309182 305529 311784 315230
7552 7263 7373 7382 7285 8558 7199 7488
3383 3293 3308 3305 3191 3789 3236 3866
69321 68734 70624 69192 71490 73272 68869 64564

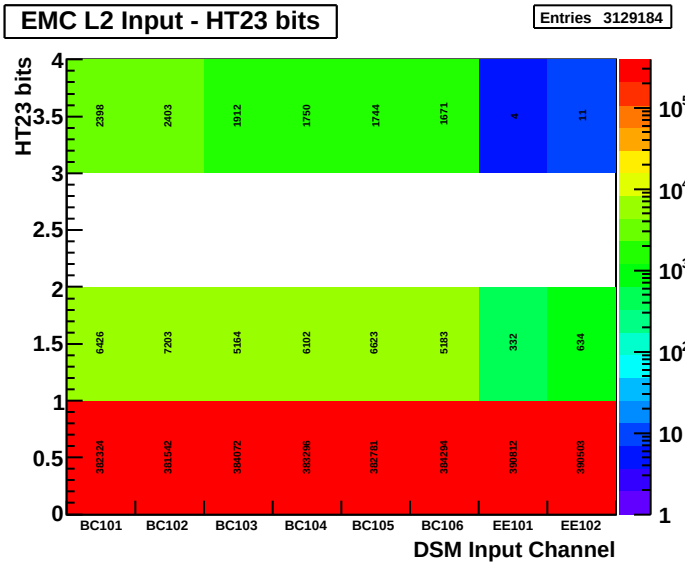

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

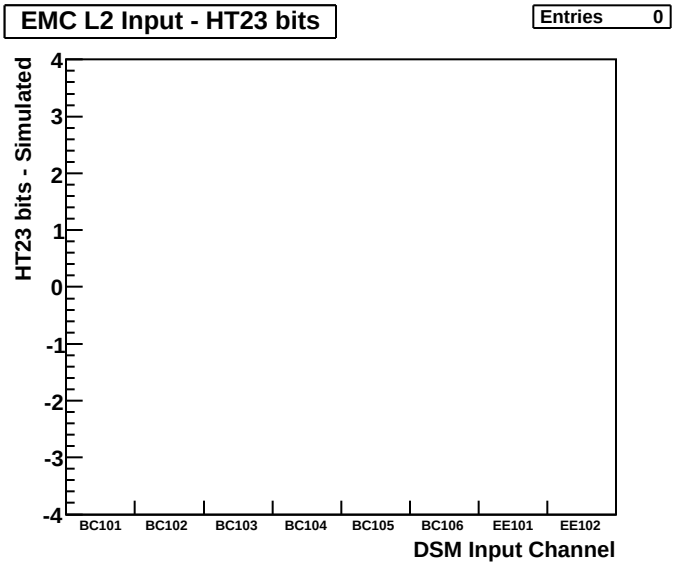

EMC L2 Input - Partial JP Sum
Entries 3129184
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

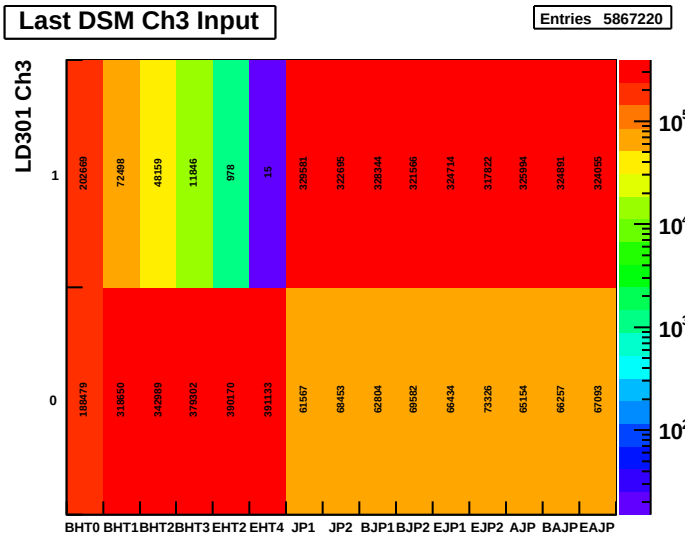

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

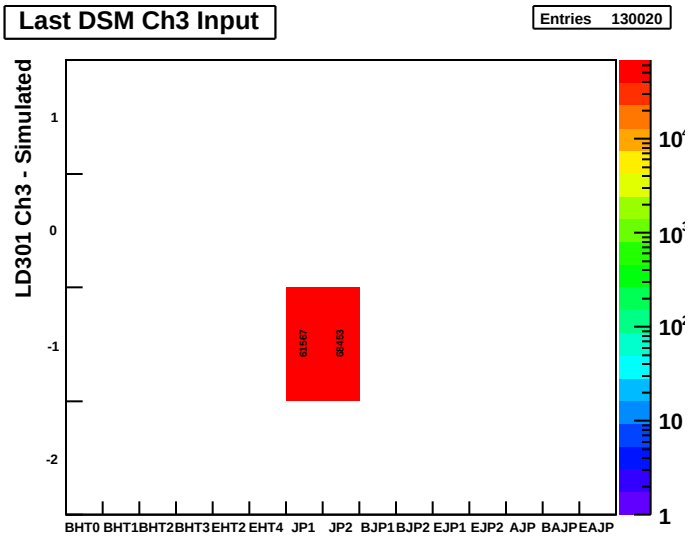

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3129184
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

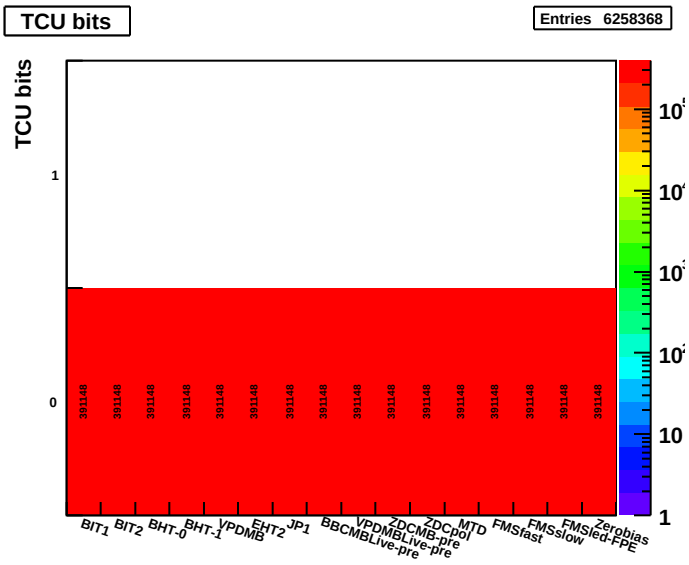

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

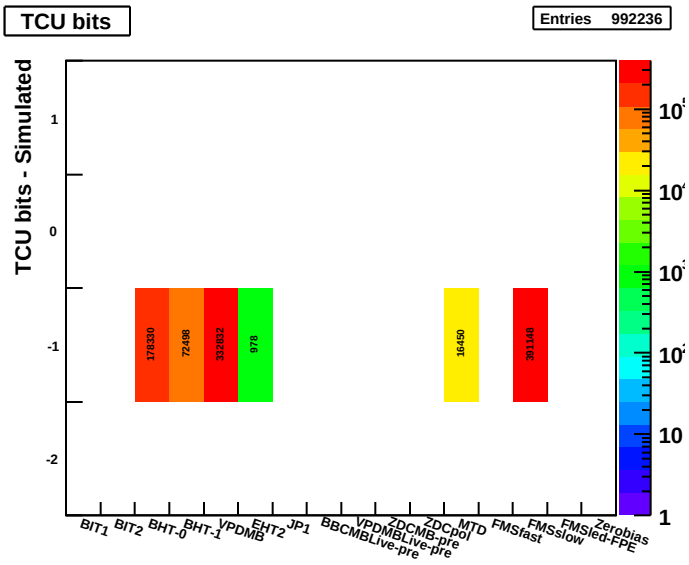

EMC L2 Input - HT23 bits
Entries 3129184
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

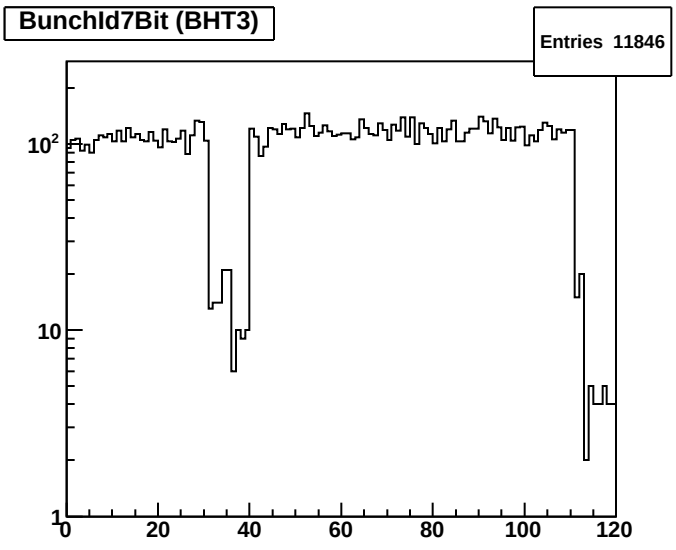

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

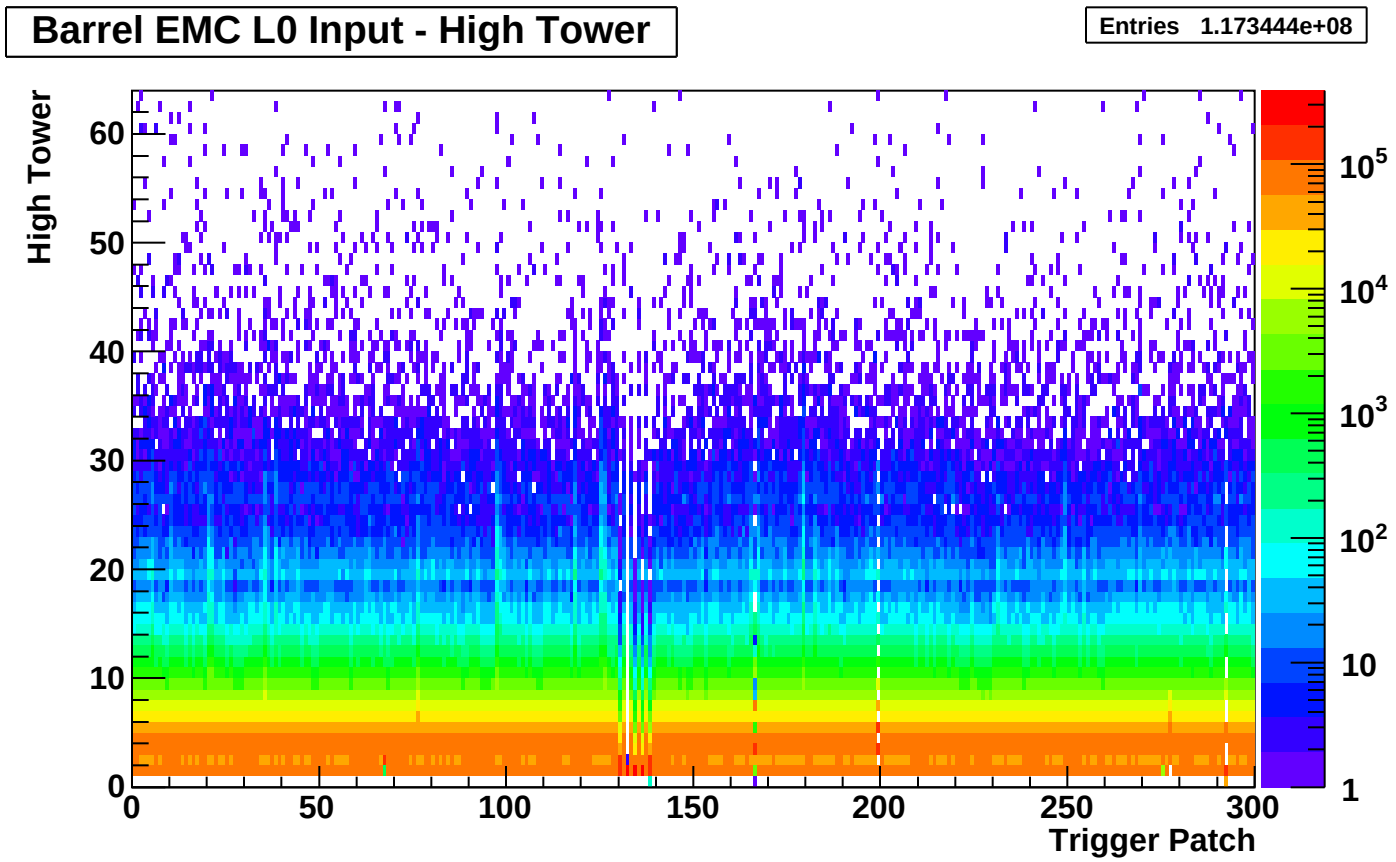

Last DSM Ch3 Input
Entries 5867220
LD301 Ch3
1
0
202669 72498 48159 11846 978 15 329581 322695 328344 321566 324714 317822 325994 324891 324055
188479 318650 342969 373902 390170 391133 61567 68453 62804 69582 66434 73326 65154 66257 67093
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

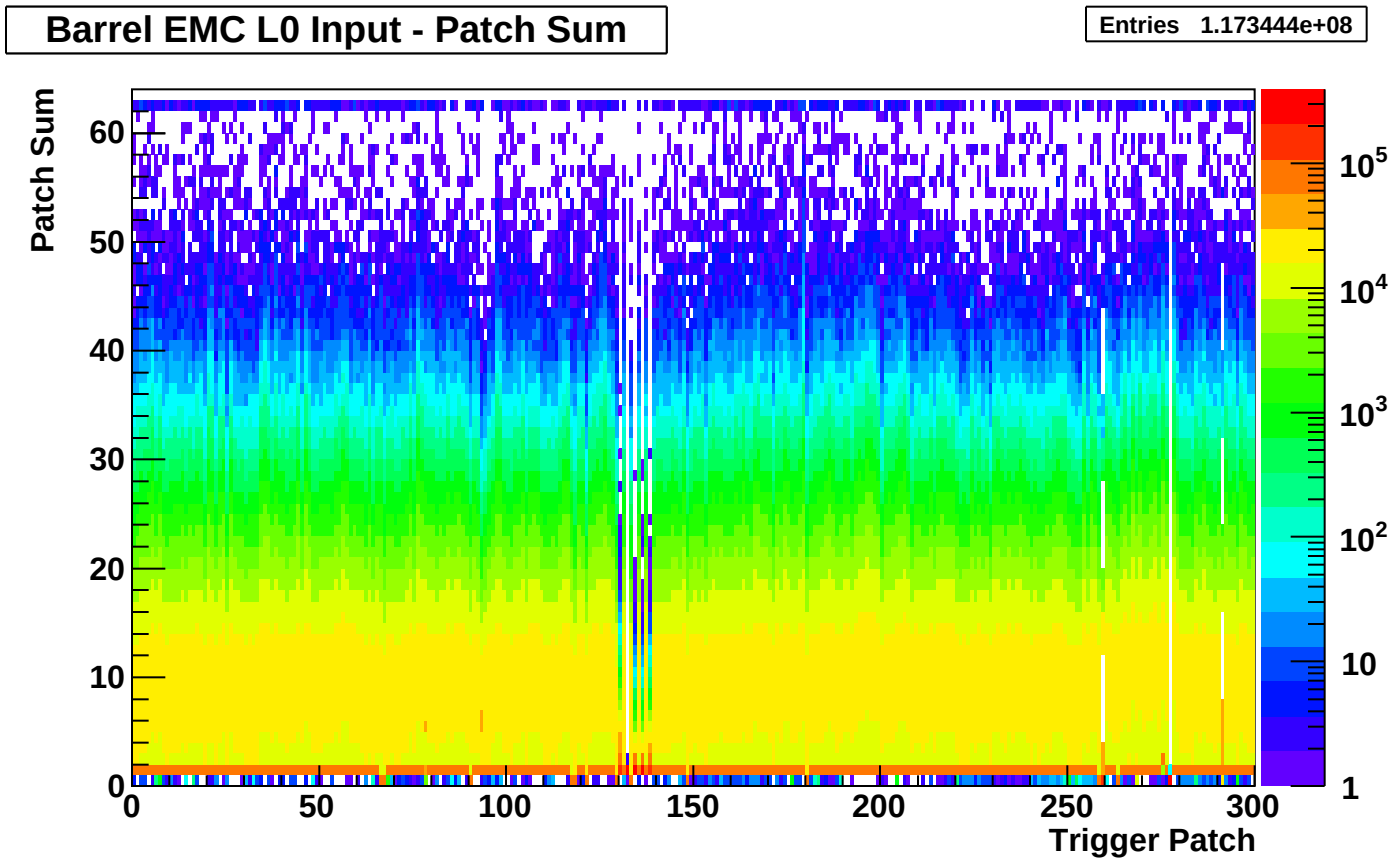

Last DSM Ch3 Input
Entries 130020
LD301 Ch3 - Simulated
1
0
-1
-2
61567 68453
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

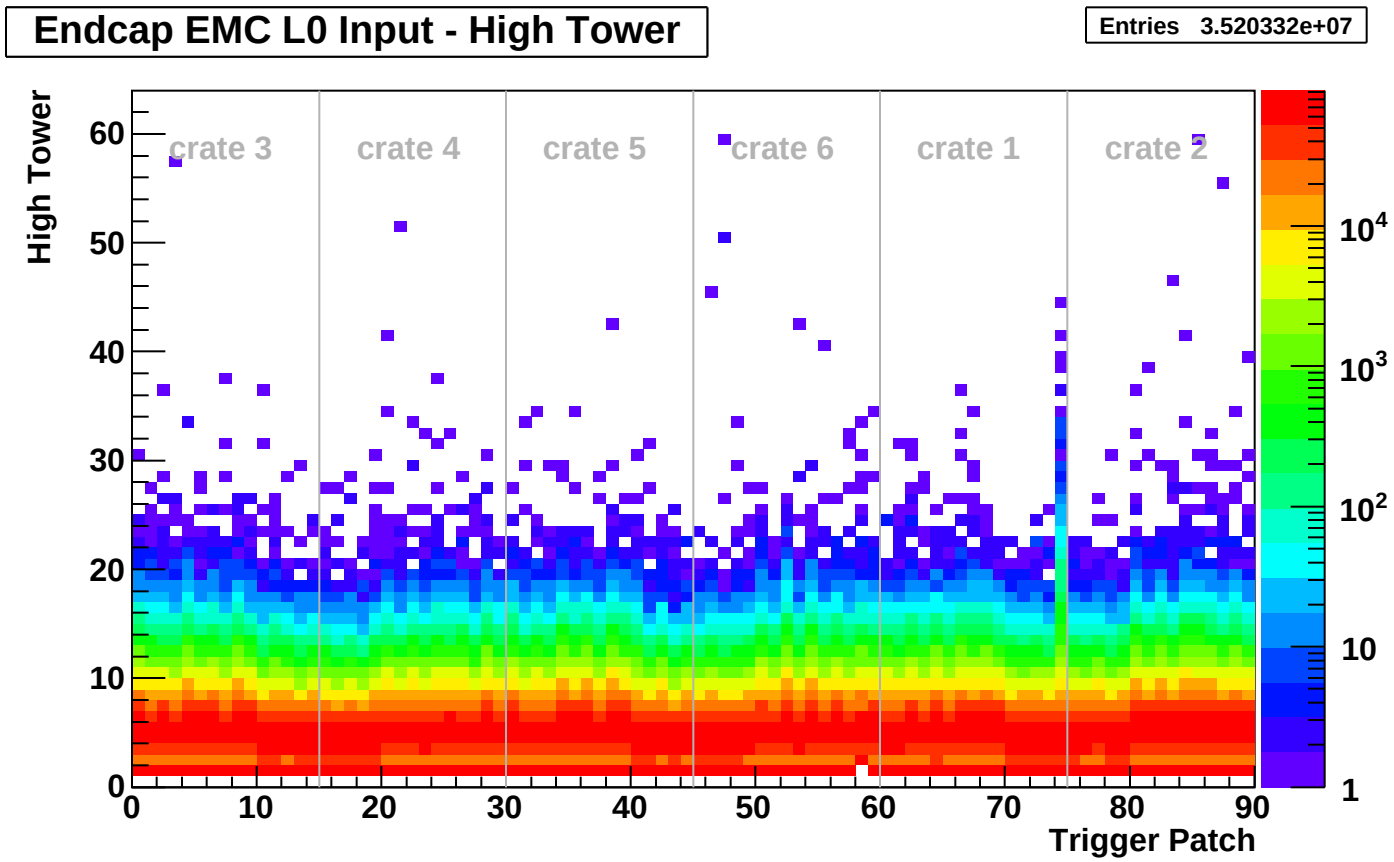

TCU bits
Entries 6258368
TCU bits
1
0
391148 391148 391148 391148 391148 391148 391148 391148 391148 391148 391148 391148 391148 391148 391148
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

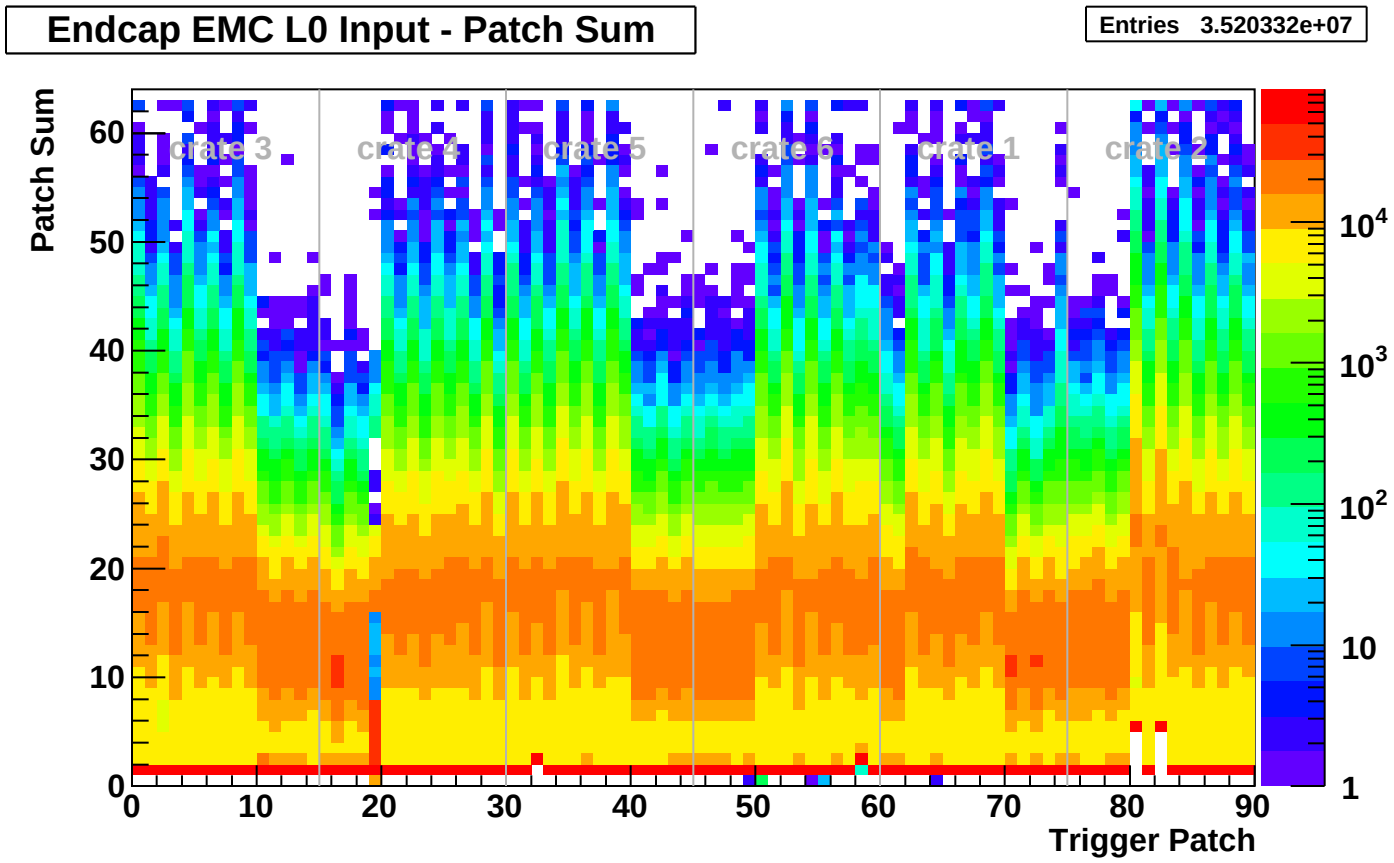

TCU bits
Entries 992236
TCU bits - Simulated
1
0
-1
-2
178330 72498 332832 978 16450 391148
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

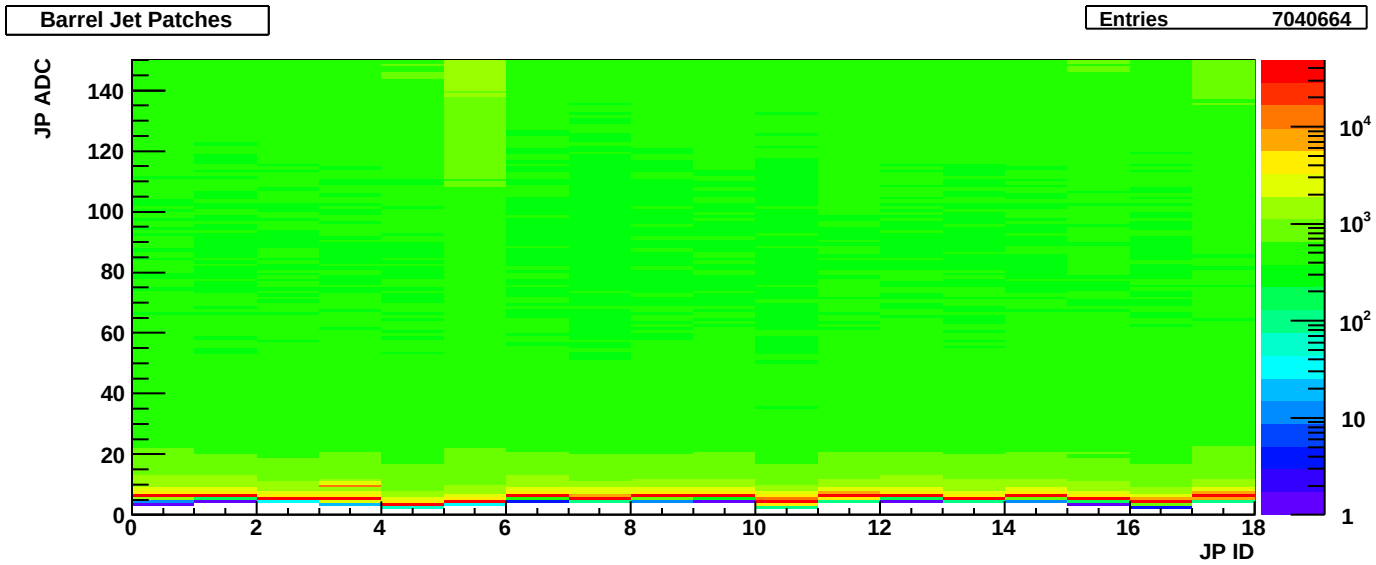

BunchId7Bit (BHT3)
Entries 11846
10²
10
1
0 20 40 60 80 100 120

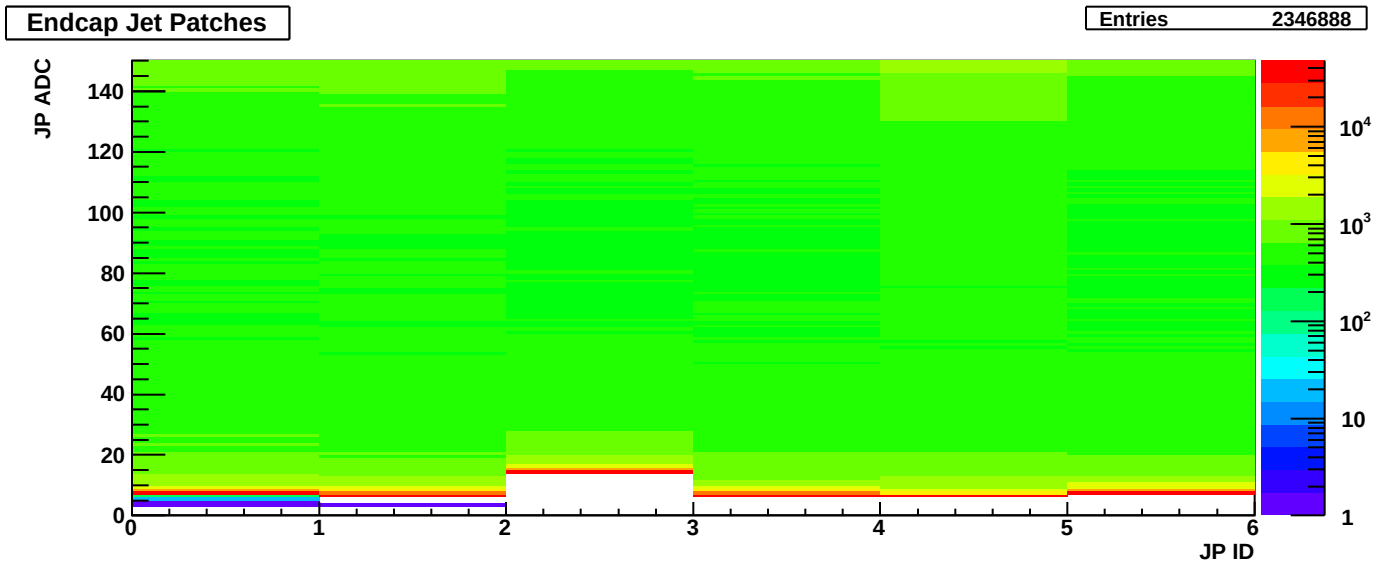

Barrel EMC L0 Input - High Tower
Entries 1.173444e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

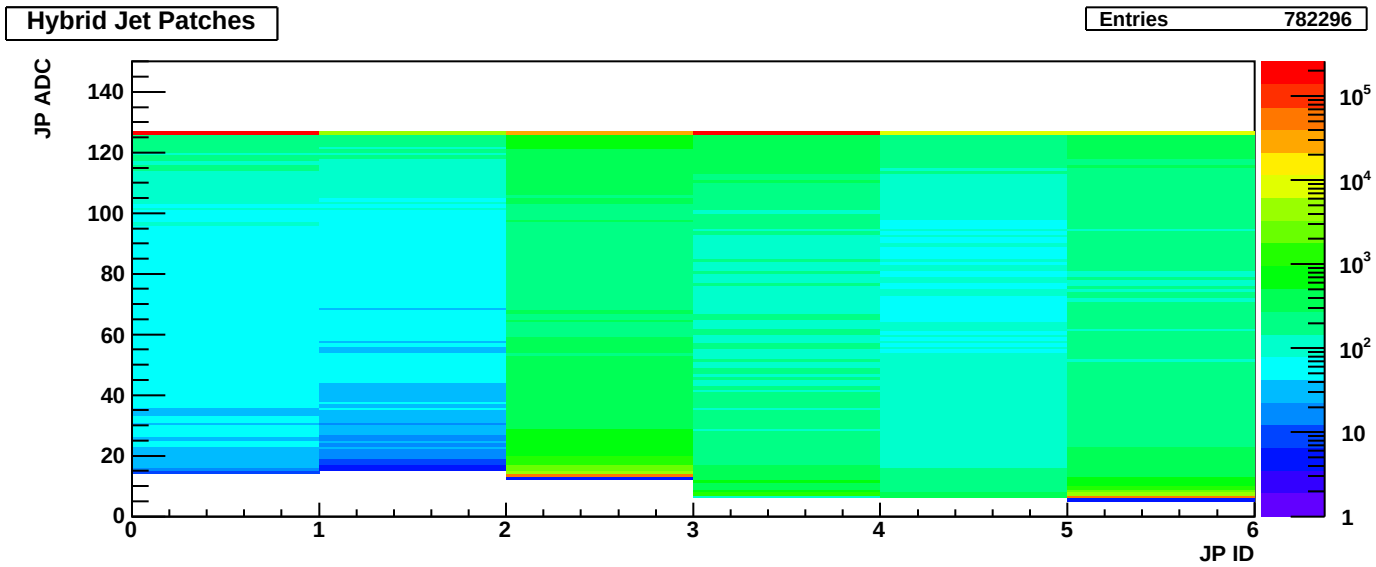

Barrel EMC L0 Input - Patch Sum
Entries 1.173444e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

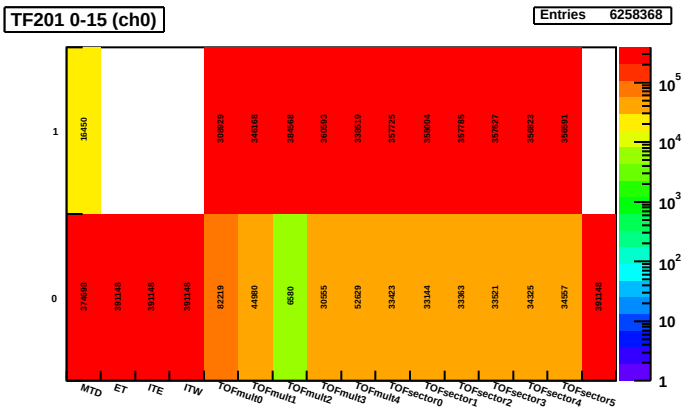

Endcap EMC L0 Input - High Tower
Entries 3.520332e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

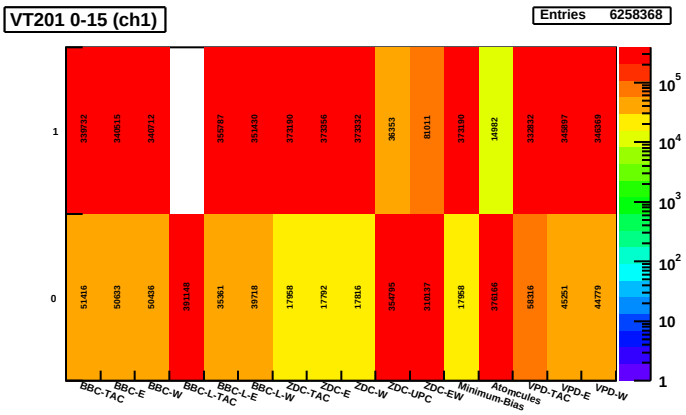

Endcap EMC L0 Input - Patch Sum
Entries 3.520332e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

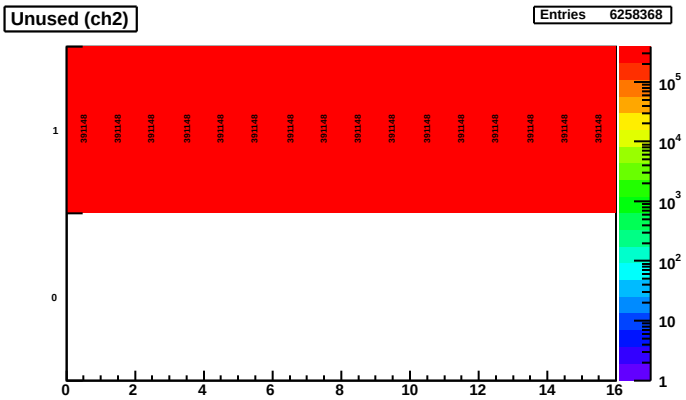

Barrel Jet Patches
Entries 7040664
JP ADC
JP ID

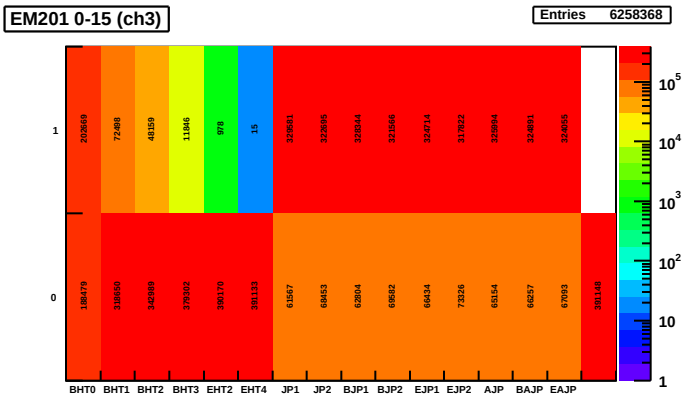

Endcap Jet Patches
Entries 2346888
JP ADC
JP ID

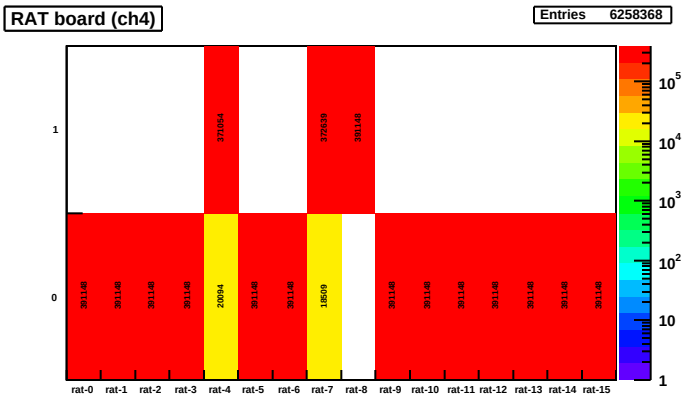

Hybrid Jet Patches
Entries 782296
JP ADC
JP ID

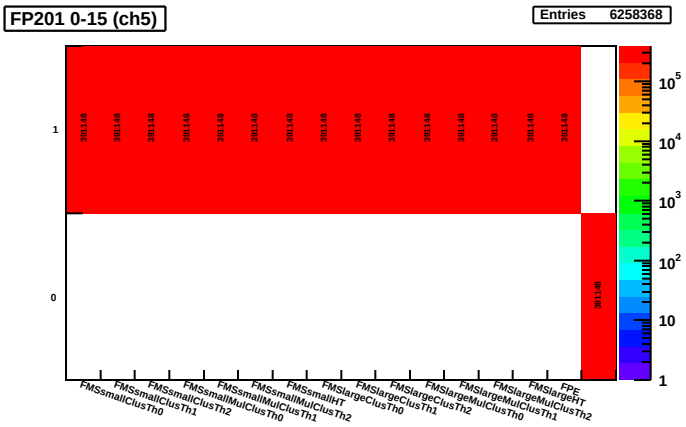

TF201 0-15 (ch0)
Entries 6258368
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

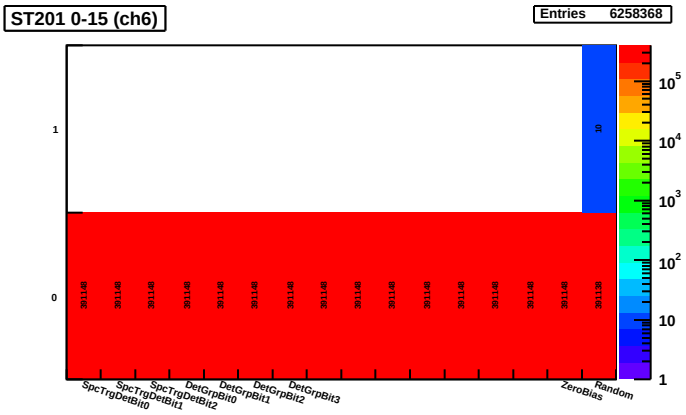

VT201 0-15 (ch1)
Entries 6258368
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

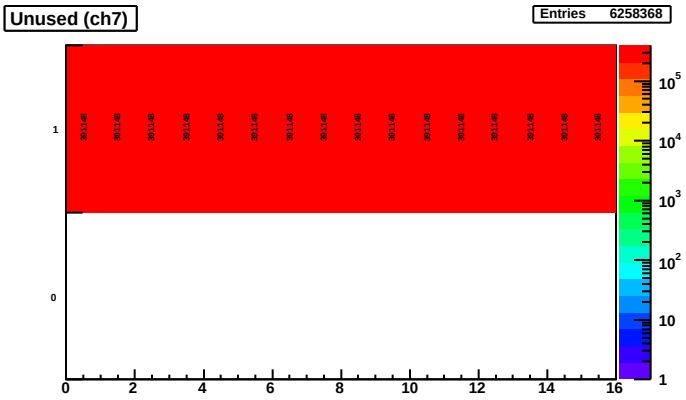

Unused (ch2)
Entries 6258368

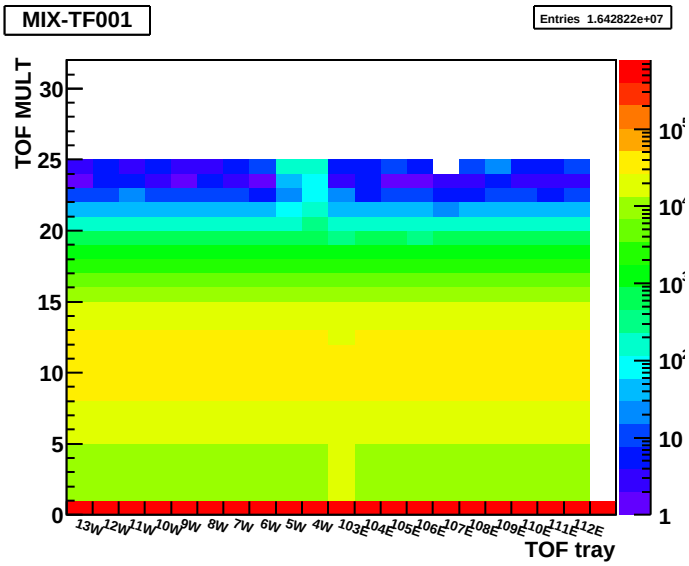

EM201 0-15 (ch3)
Entries 6258368
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

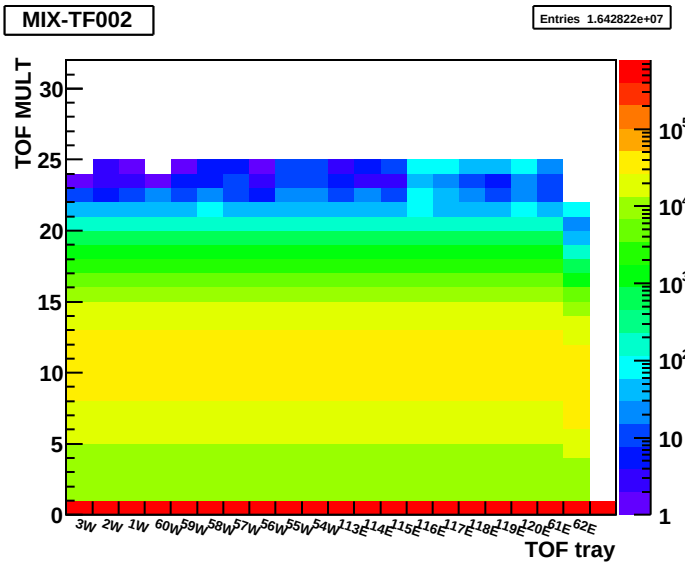

RAT board (ch4)
Entries 6258368
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

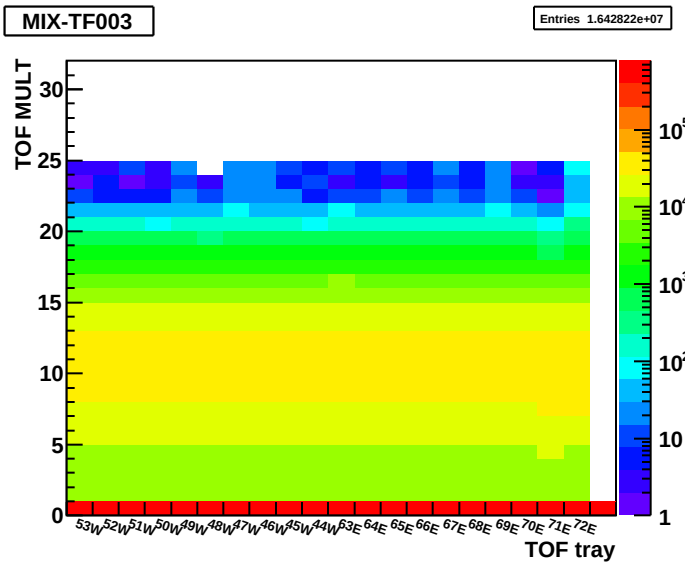

FP201 0-15 (ch5)
Entries 6258368
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

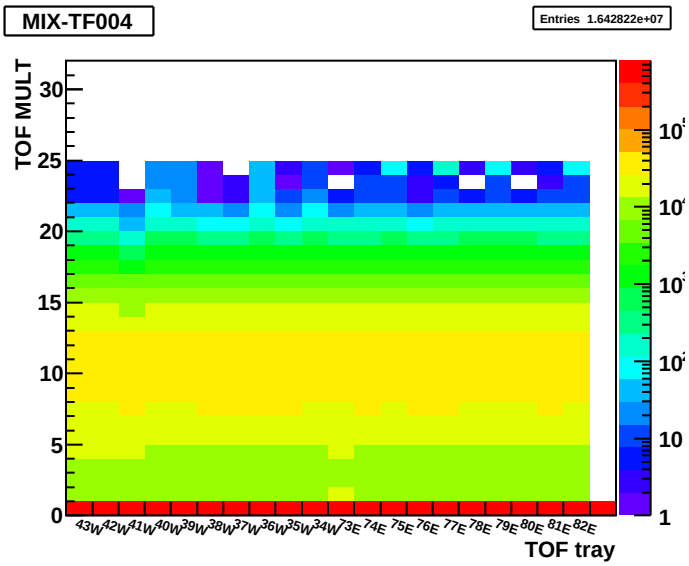

ST201 0-15 (ch6)
Entries 6258368
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

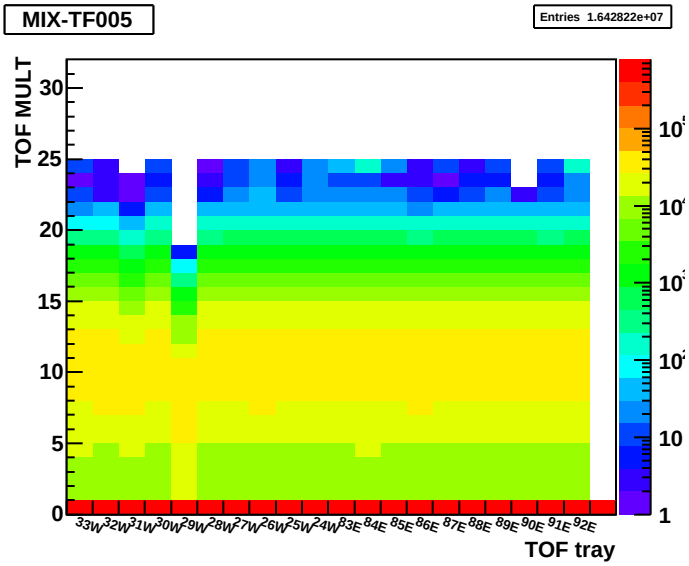

Unused (ch7)
Entries 6258368

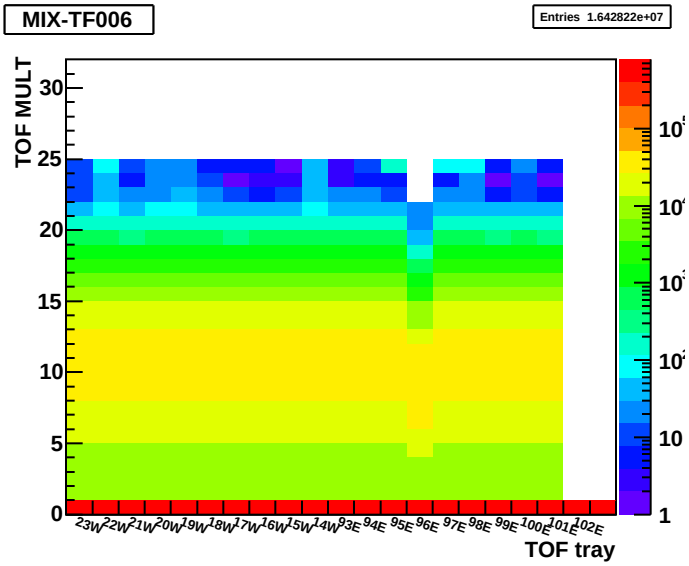

MIX-TF001
Entries 1.642822e+07
TOF MULT
TOF tray

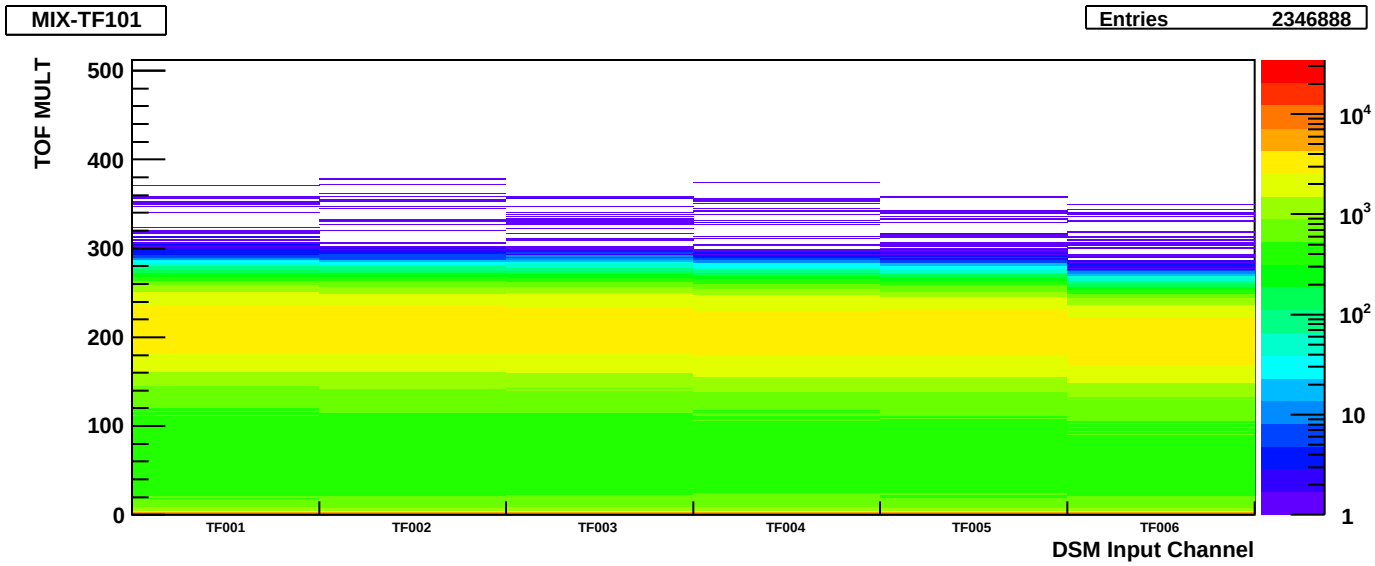

MIX-TF002
Entries 1.642822e+07
TOF MULT
TOF tray

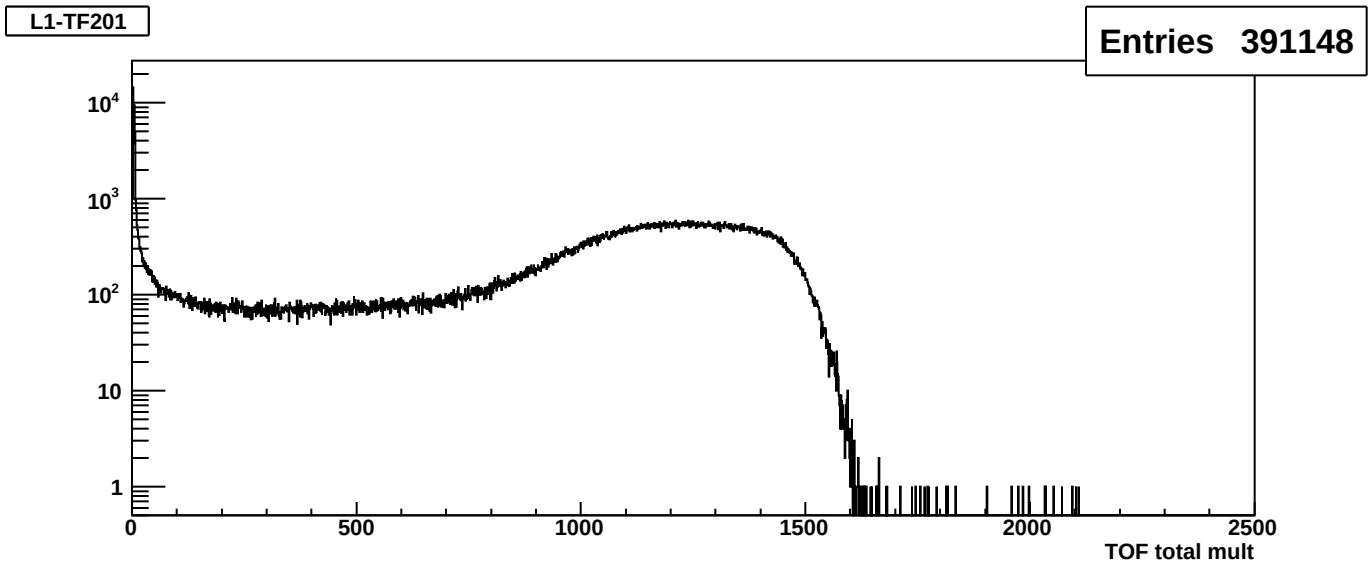

MIX-TF003
Entries 1.642822e+07
TOF MULT
TOF tray

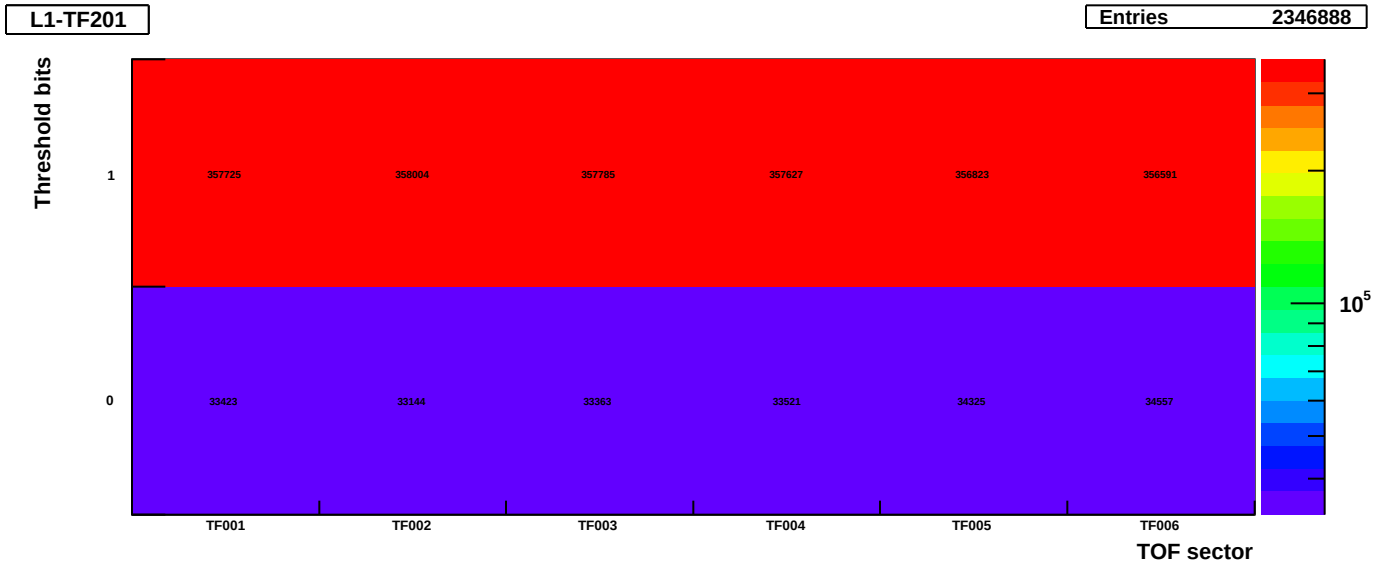

MIX-TF004
Entries 1.642822e+07
TOF MULT
TOF tray

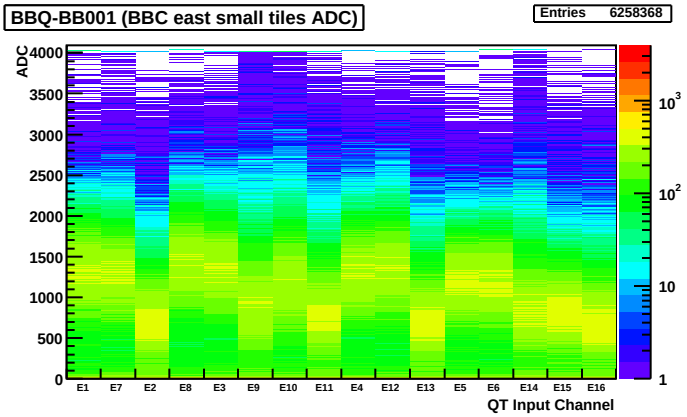

MIX-TF005
Entries 1.642822e+07
TOF MULT
TOF tray

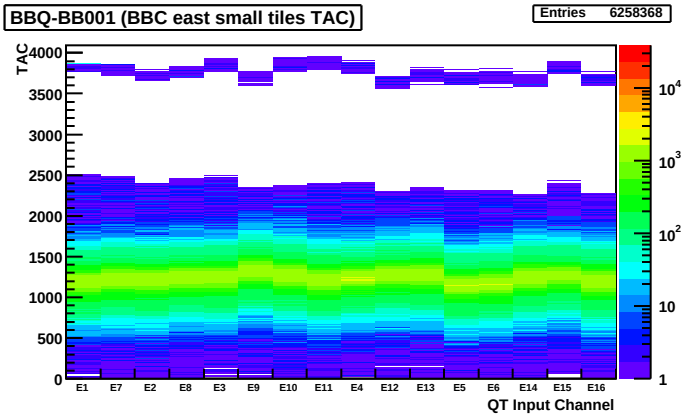

MIX-TF006
Entries 1.642822e+07
TOF MULT
TOF tray

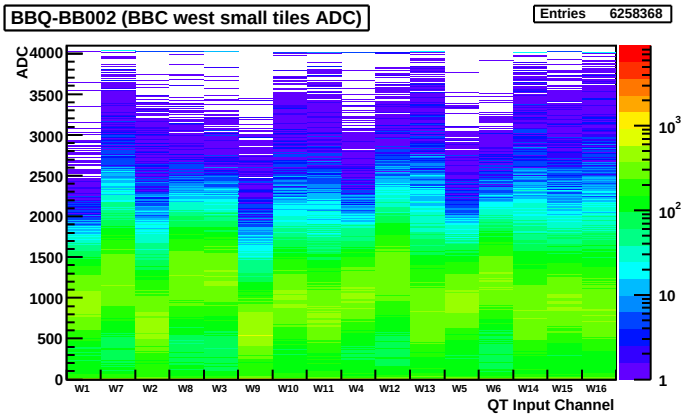

MIX-TF101
Entries 2346888
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

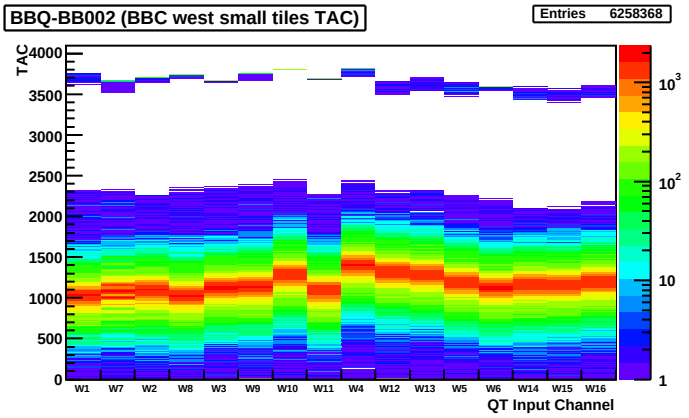

L1-TF201
Entries 391148
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

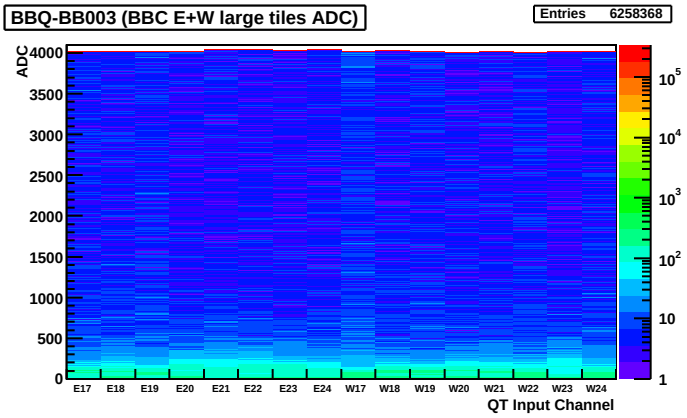

L1-TF201
Entries 2346888
Threshold bits
1
0
357725
358004
357785
357627
356823
356591
33423
33144
33363
33521
34325
34557
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

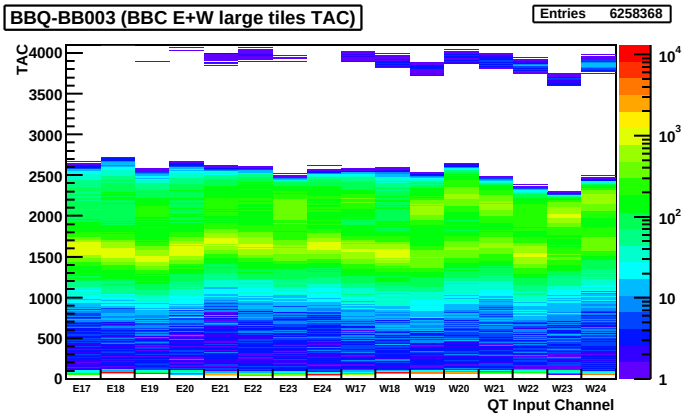

BBQ-BB001 (BBC east small tiles ADC)
Entries 6258368
ADC
QT Input Channel

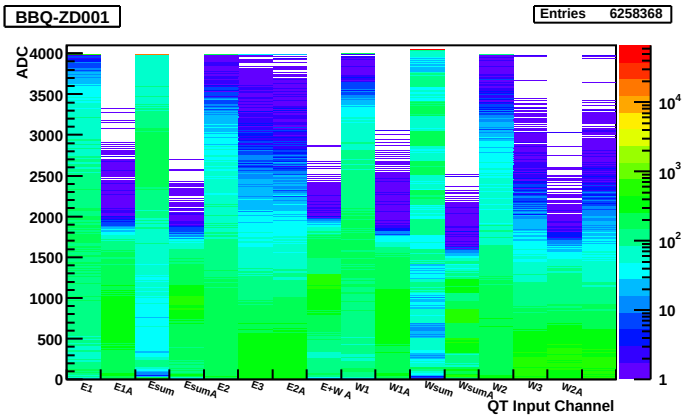

BBQ-BB001 (BBC east small tiles TAC)
Entries 6258368
TAC
QT Input Channel

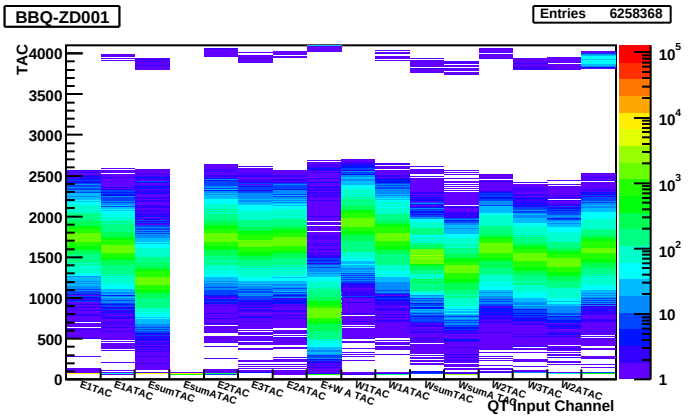

BBQ-BB002 (BBC west small tiles ADC)
Entries 6258368
ADC
QT Input Channel

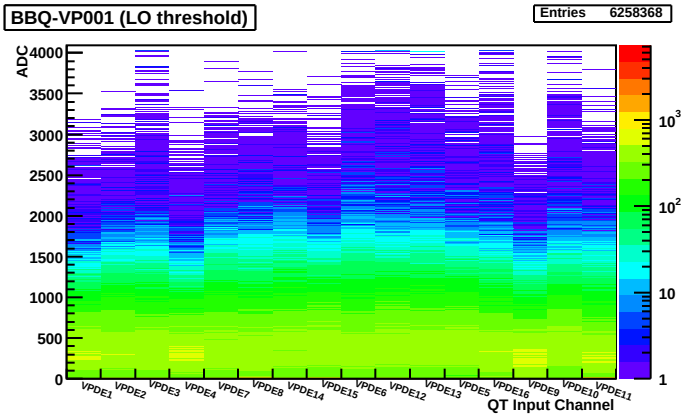

BBQ-BB002 (BBC west small tiles TAC)
Entries 6258368
TAC
QT Input Channel

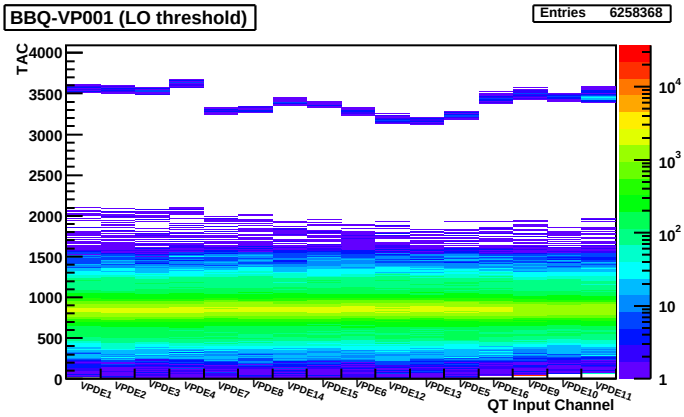

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6258368
ADC
QT Input Channel

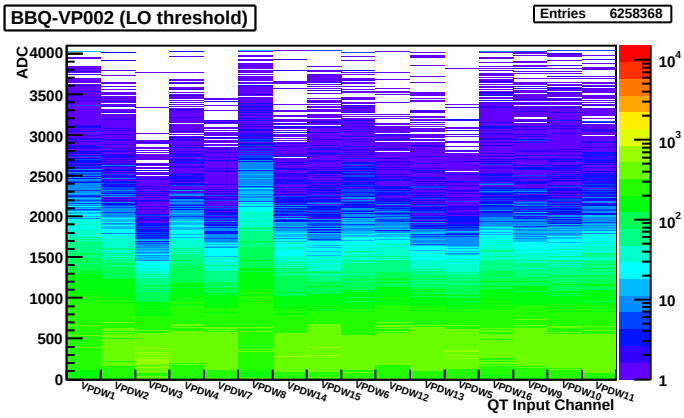

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6258368
TAC
QT Input Channel

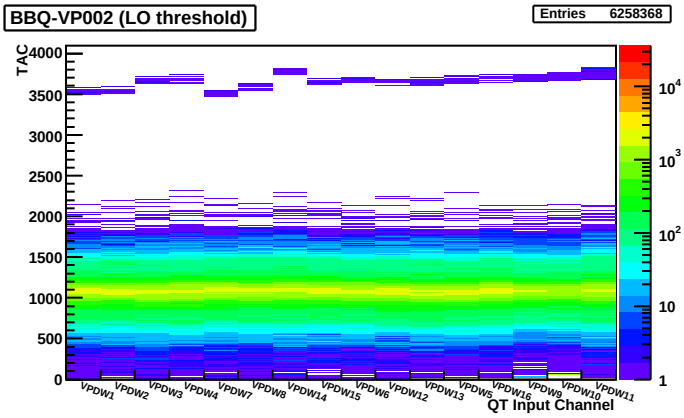

BBQ-ZD001
Entries 6258368
ADC
QT Input Channel

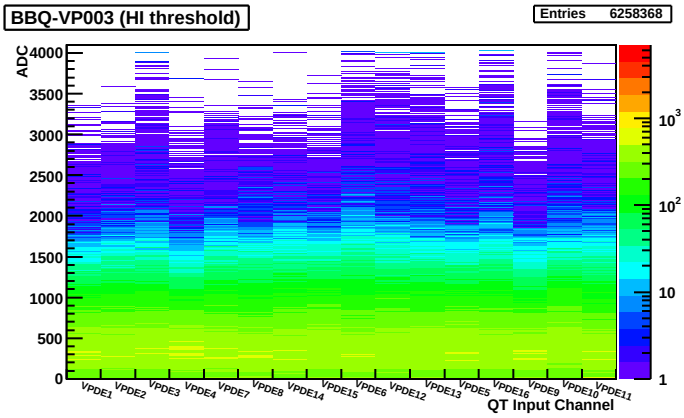

BBQ-ZD001
Entries 6258368
TAC
QT Input Channel

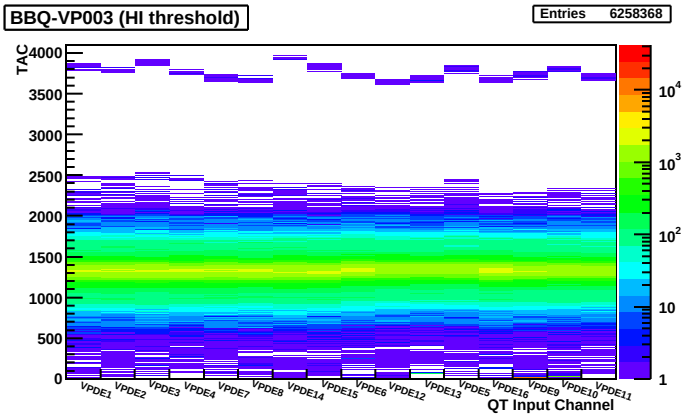

BBQ-VP001 (LO threshold)
Entries 6258368
ADC
QT Input Channel

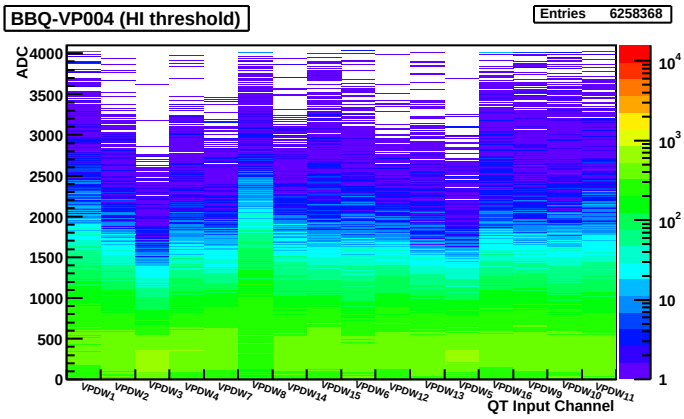

BBQ-VP001 (LO threshold)
Entries 6258368
TAC
QT Input Channel

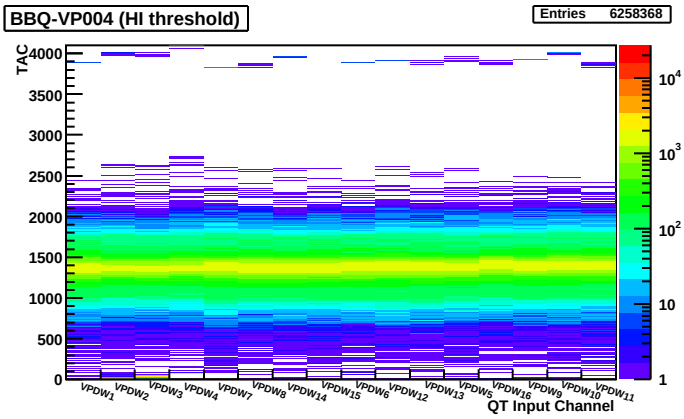

BBQ-VP002 (LO threshold)
Entries 6258368
ADC
QT Input Channel


BBQ-VP002 (LO threshold)
Entries 6258368
TAC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 6258368
ADC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 6258368
TAC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 6258368
ADC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 6258368
TAC
QT Input Channel