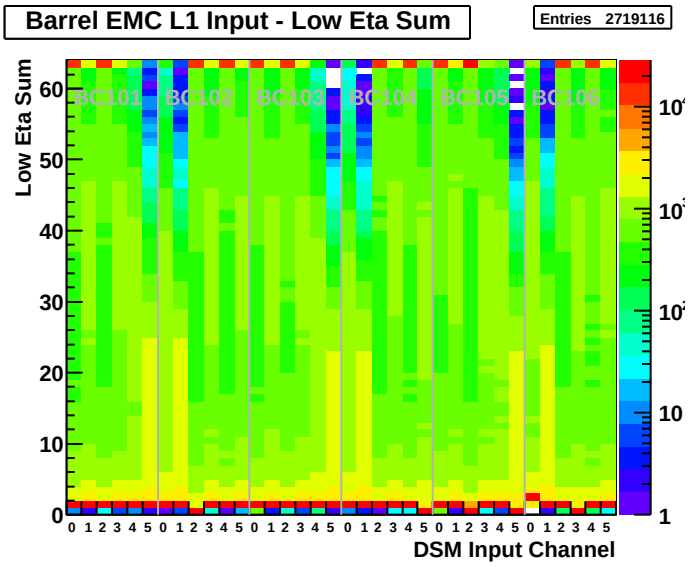
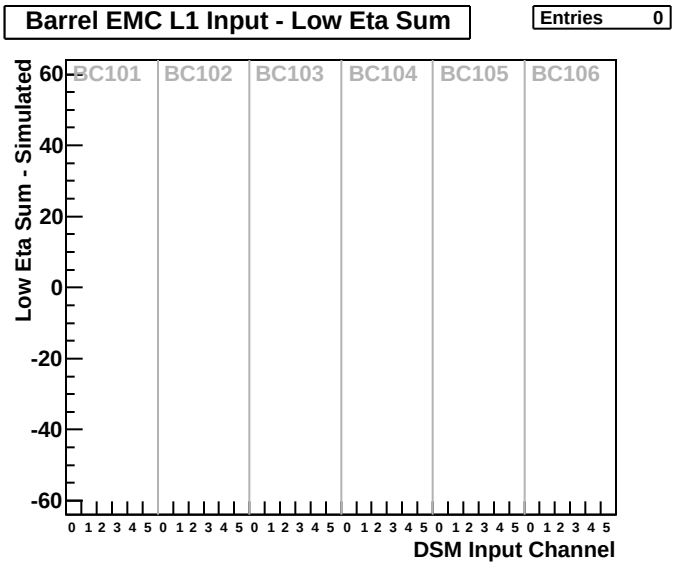
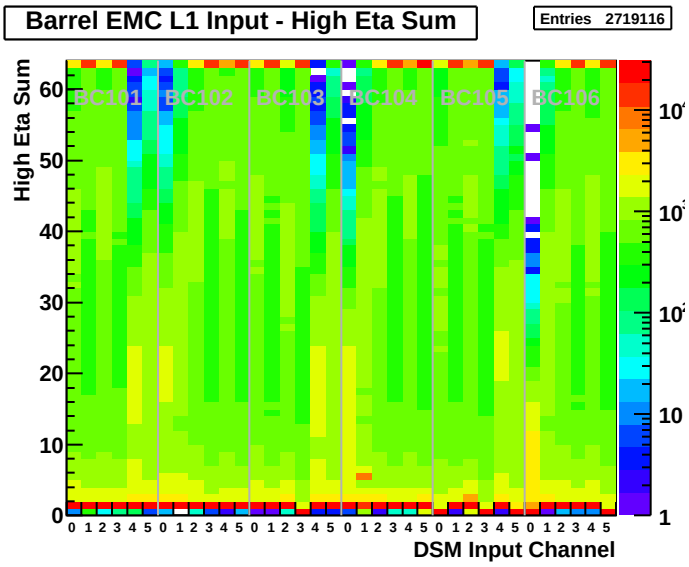
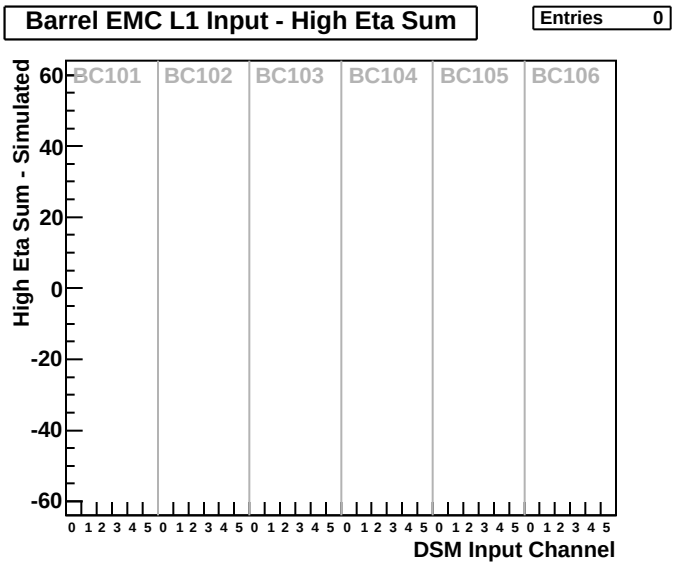
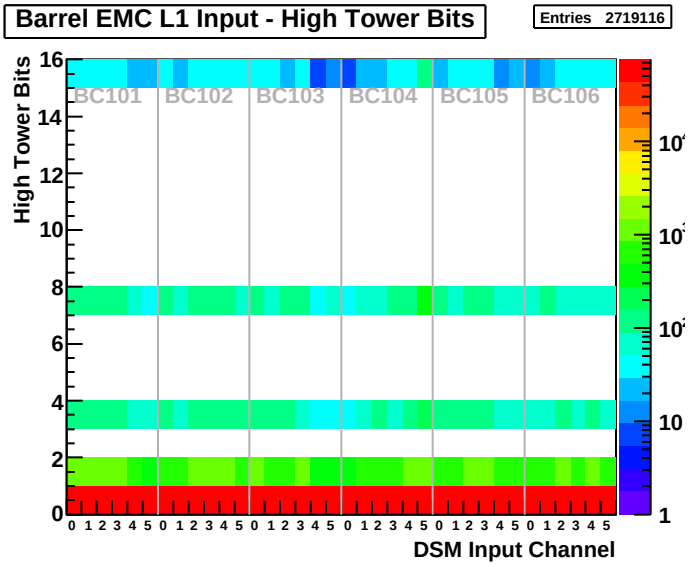
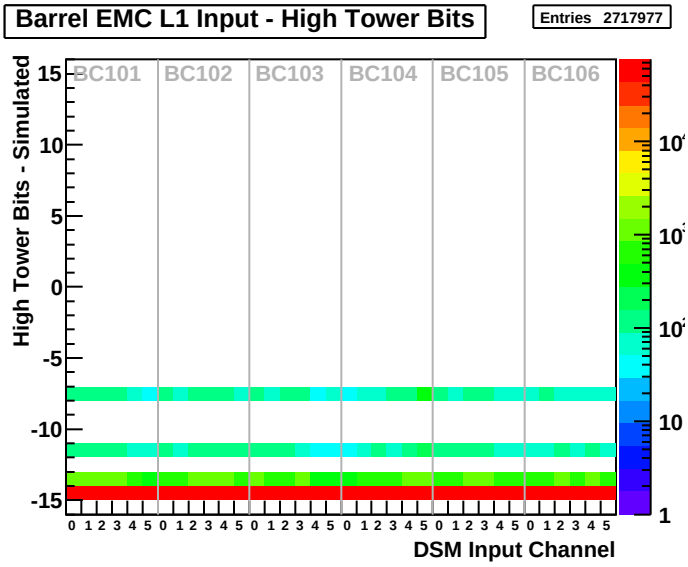

Barrel EMC L1 Input - Low Eta Sum
Entries 2719116
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

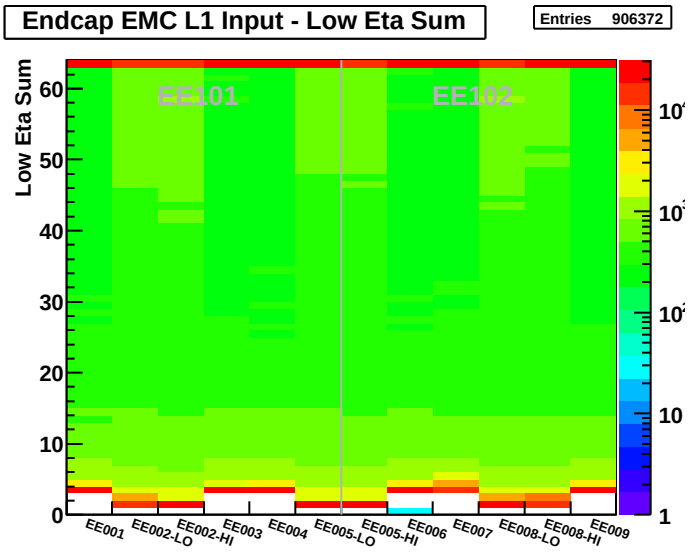

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

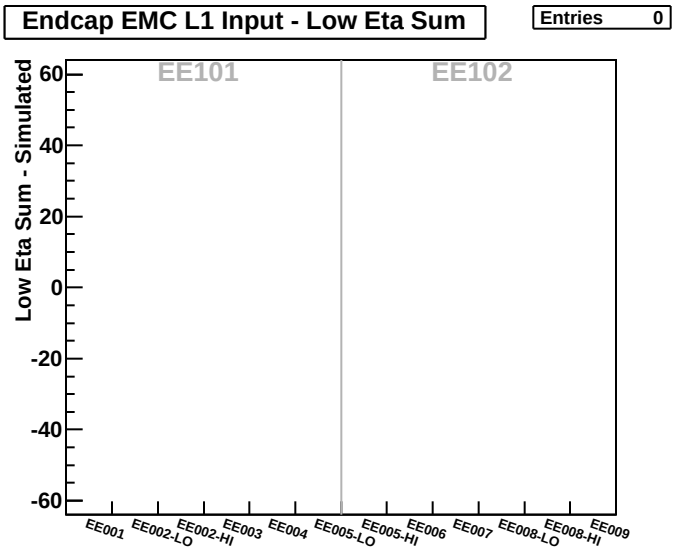

Barrel EMC L1 Input - High Eta Sum
Entries 2719116
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

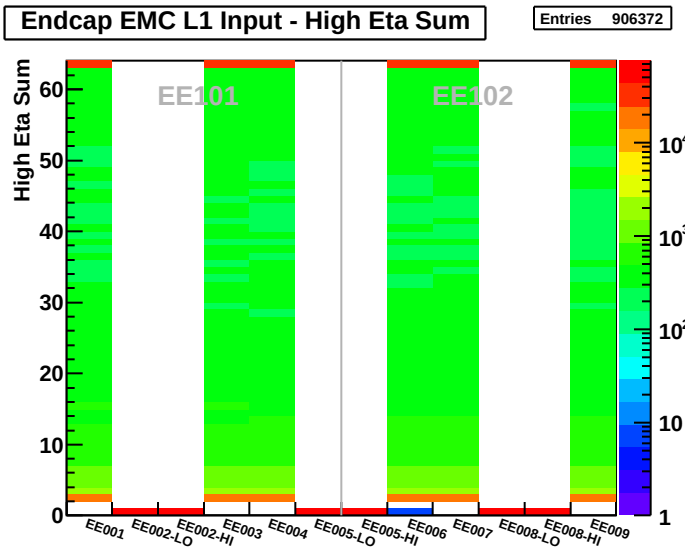

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

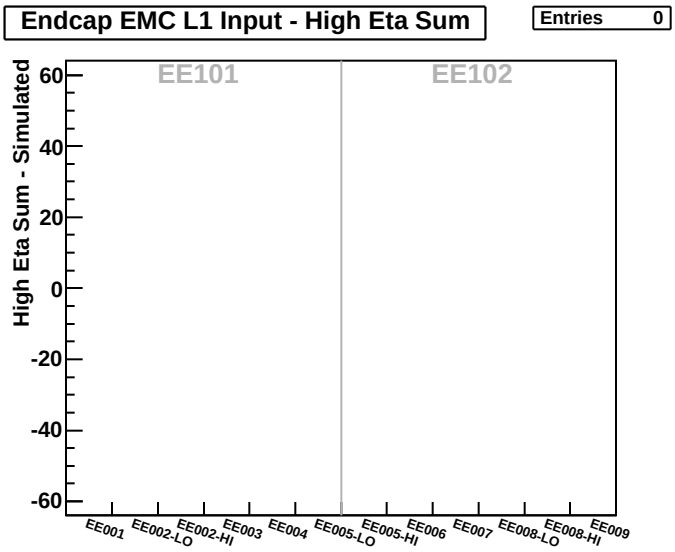

Barrel EMC L1 Input - High Tower Bits
Entries 2719116
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

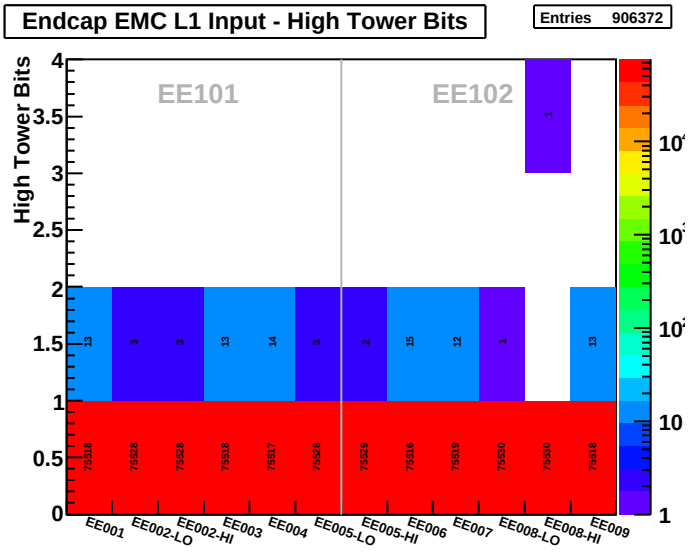

Barrel EMC L1 Input - High Tower Bits
Entries 2717977
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

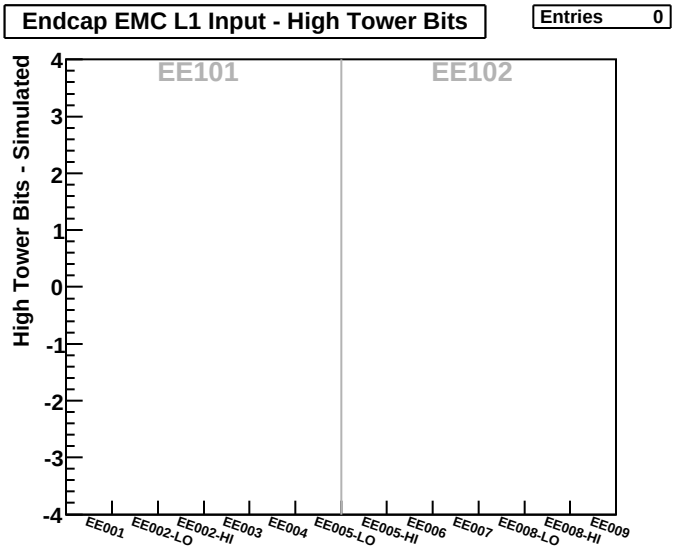

Endcap EMC L1 Input - Low Eta Sum
Entries 906372
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

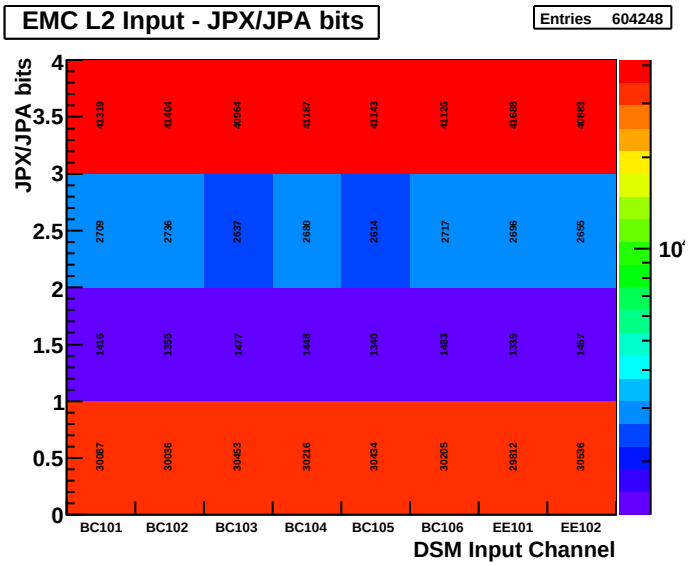

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

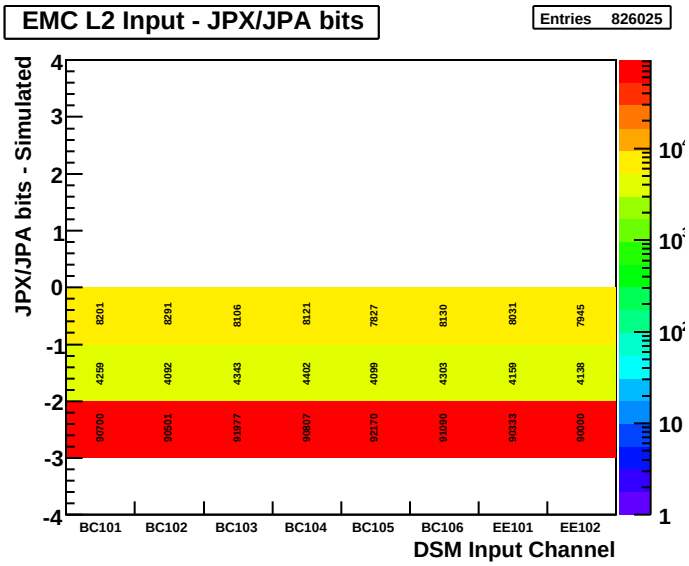

Endcap EMC L1 Input - High Eta Sum
Entries 906372
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

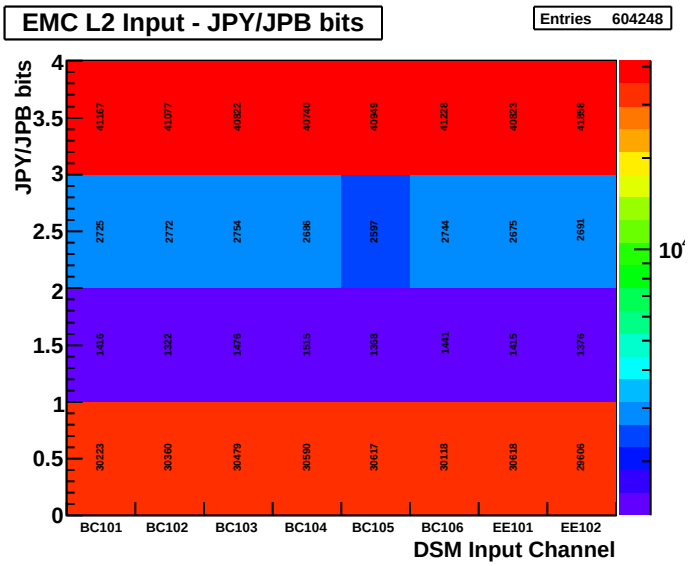

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

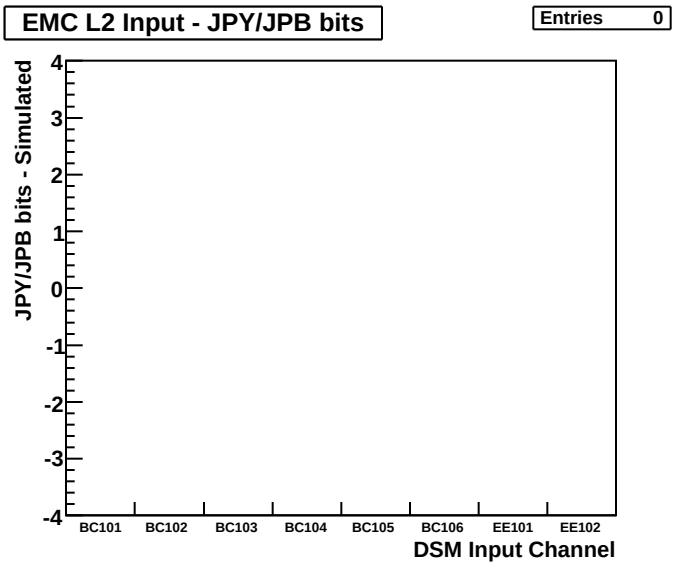

Endcap EMC L1 Input - High Tower Bits
Entries 906372
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

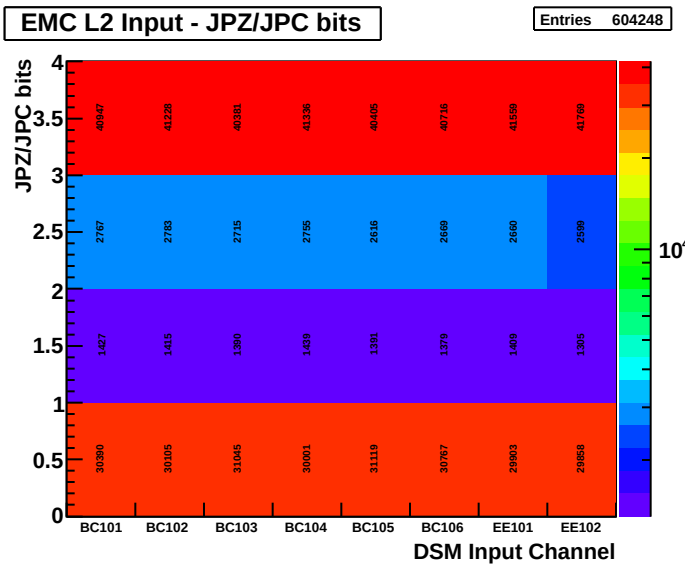

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

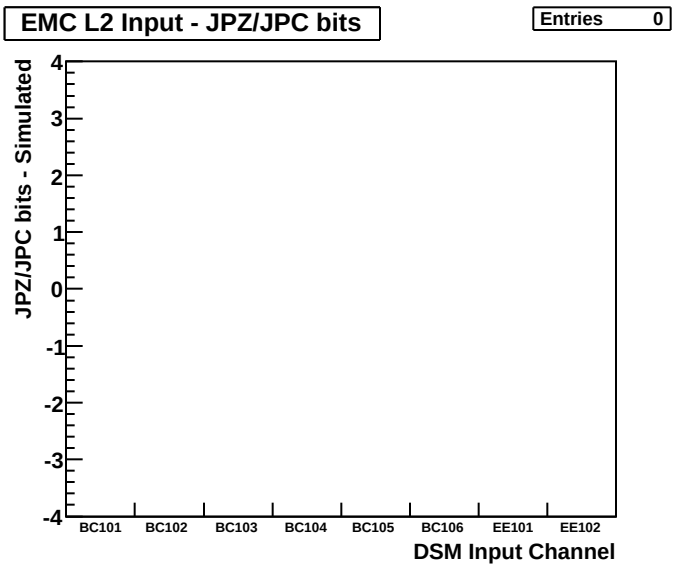

EMC L2 Input - JPX/JPA bits
Entries 604248
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
41319 41404 40964 41187 41143 41126 41688 40983
2709 2736 2637 2680 2614 2717 2696 2655
1416 1355 1477 1448 1340 1483 1335 1457
30087 30036 30453 30216 30434 30205 29812 30536

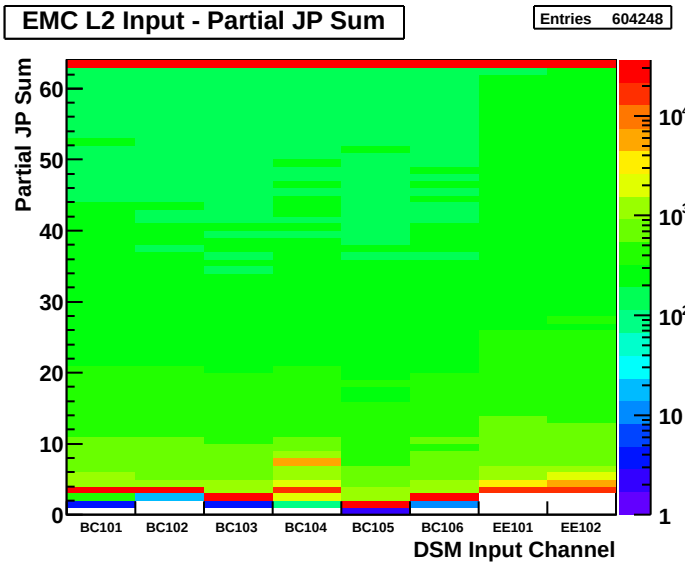

EMC L2 Input - JPX/JPA bits
Entries 826025
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
8201 8291 8106 8121 7827 8130 8031 7945
4299 4092 4343 4402 4099 4303 4159 4138
90700 90501 91377 90807 92170 91090 90333 90000

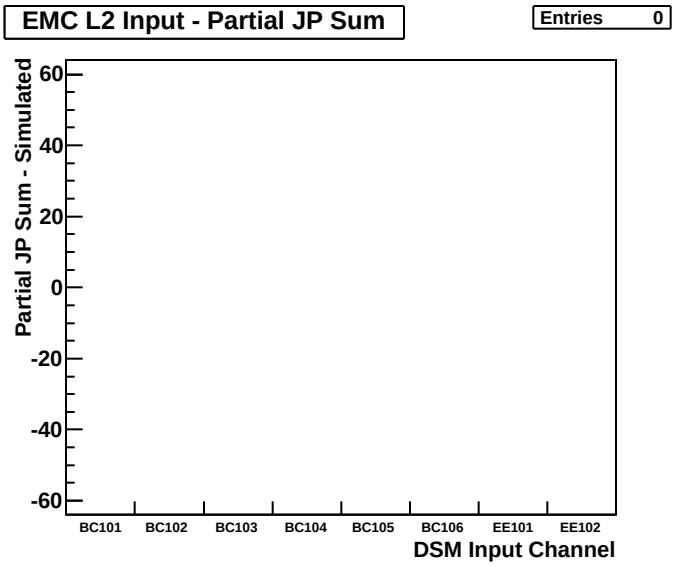

EMC L2 Input - JPY/JPB bits
Entries 604248
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
41167 41077 40822 40740 40949 41228 40823 41858
2725 2772 2754 2686 2597 2744 2675 2691
1416 1322 1476 1515 1358 1441 1415 1376
30223 30360 30479 30590 30617 30118 30618 29606

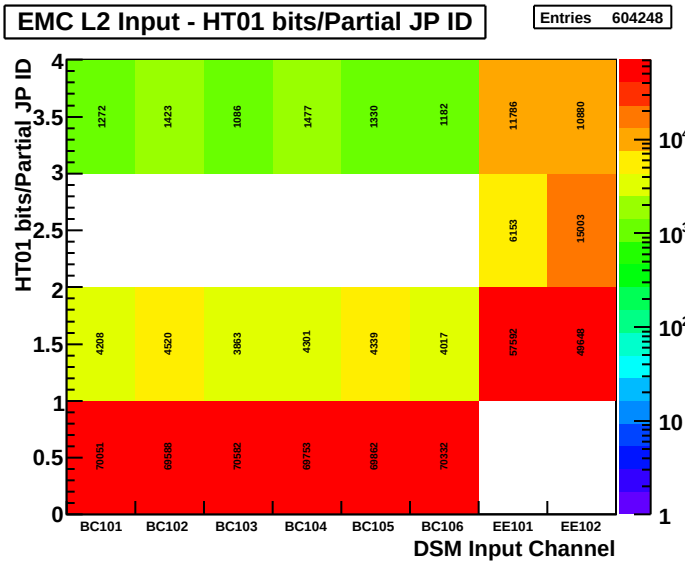

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

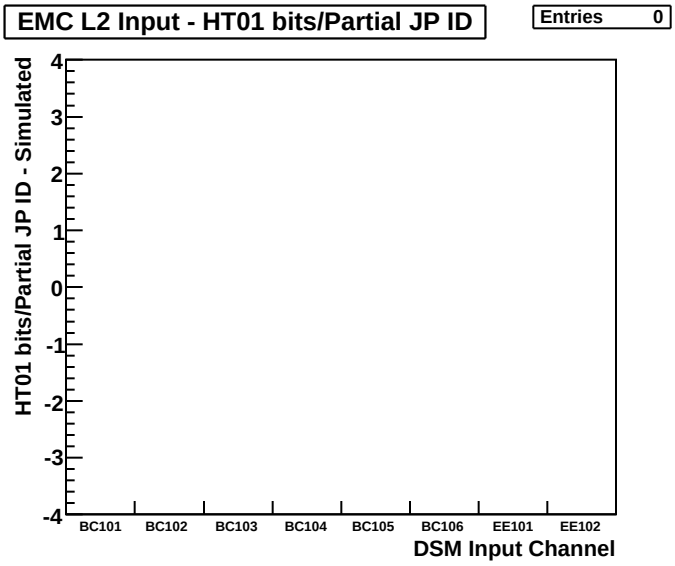

EMC L2 Input - JPZ/JPC bits
Entries 604248
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
40947 41228 40381 41336 40405 40716 41559 41769
2767 2783 2715 2755 2616 2669 2660 2599
1427 1415 1300 1439 1391 1379 1409 1305
30380 30105 31045 30001 31119 30767 29903 29858

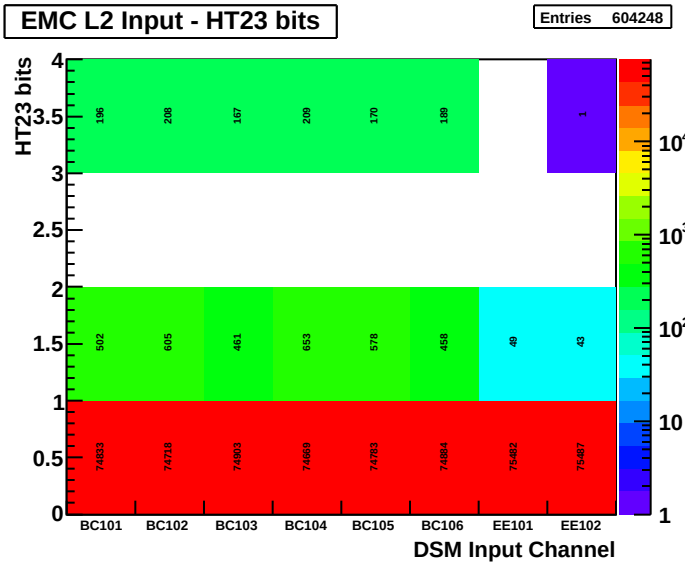

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

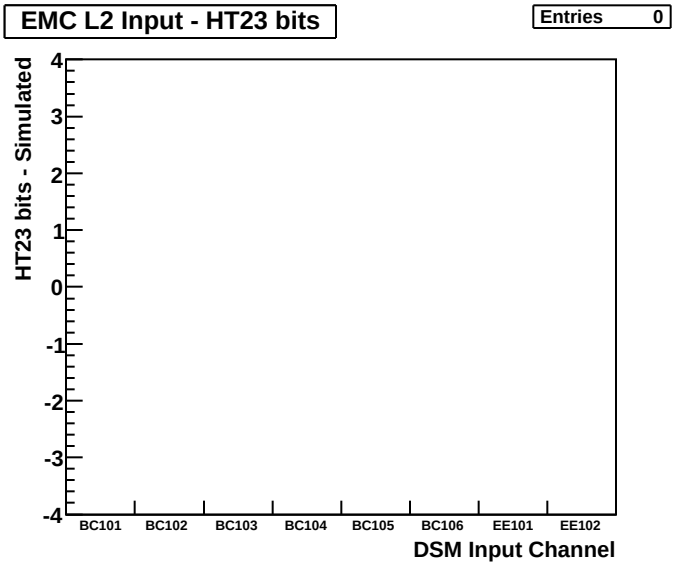

EMC L2 Input - Partial JP Sum
Entries 604248
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

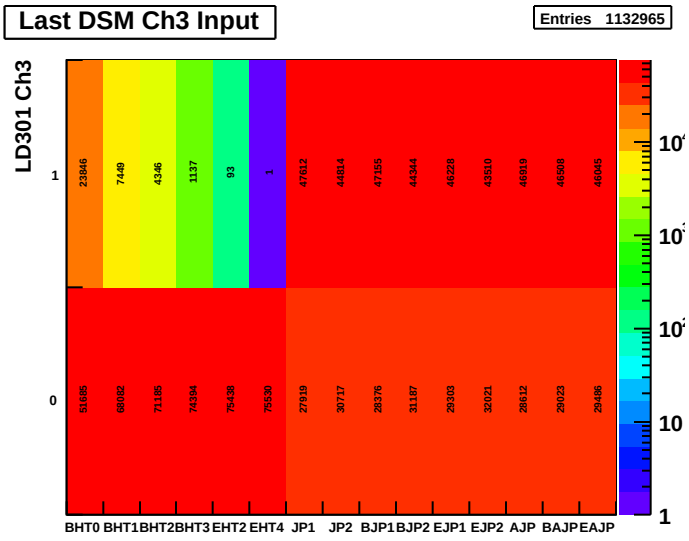

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

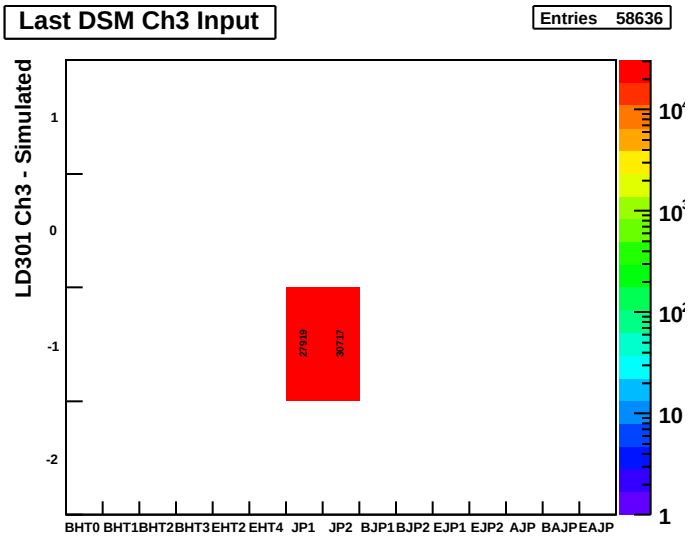

EMC L2 Input - HT01 bits/Partial JP ID
Entries 604248
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

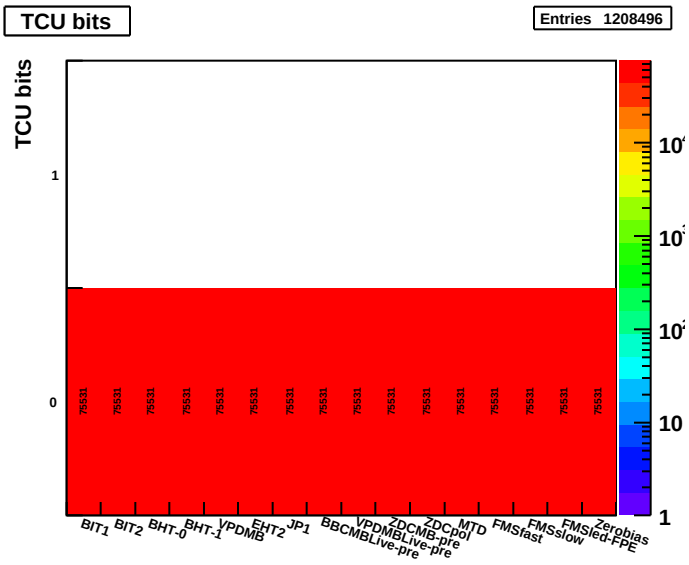

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

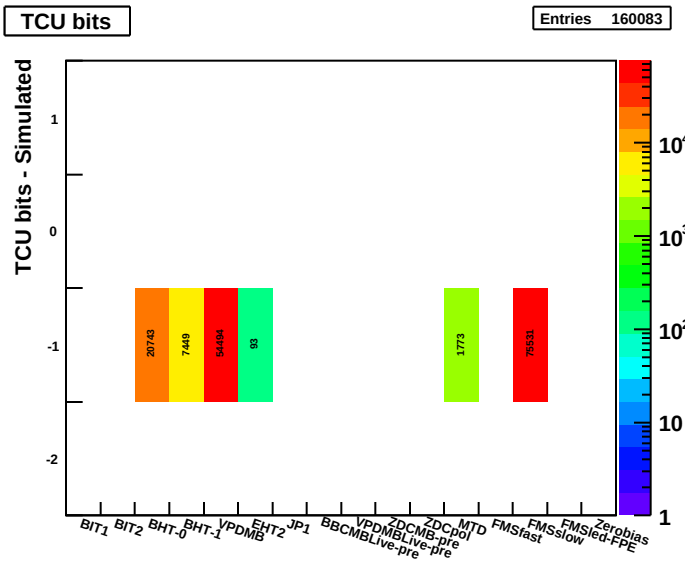

EMC L2 Input - HT23 bits
Entries 604248
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

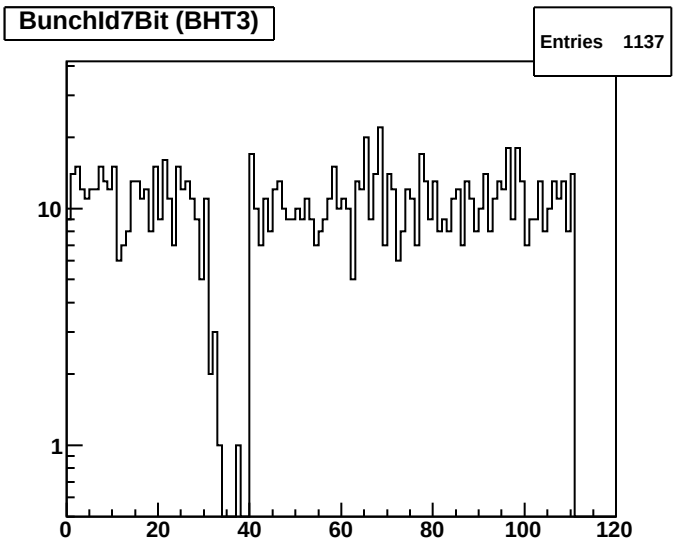

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

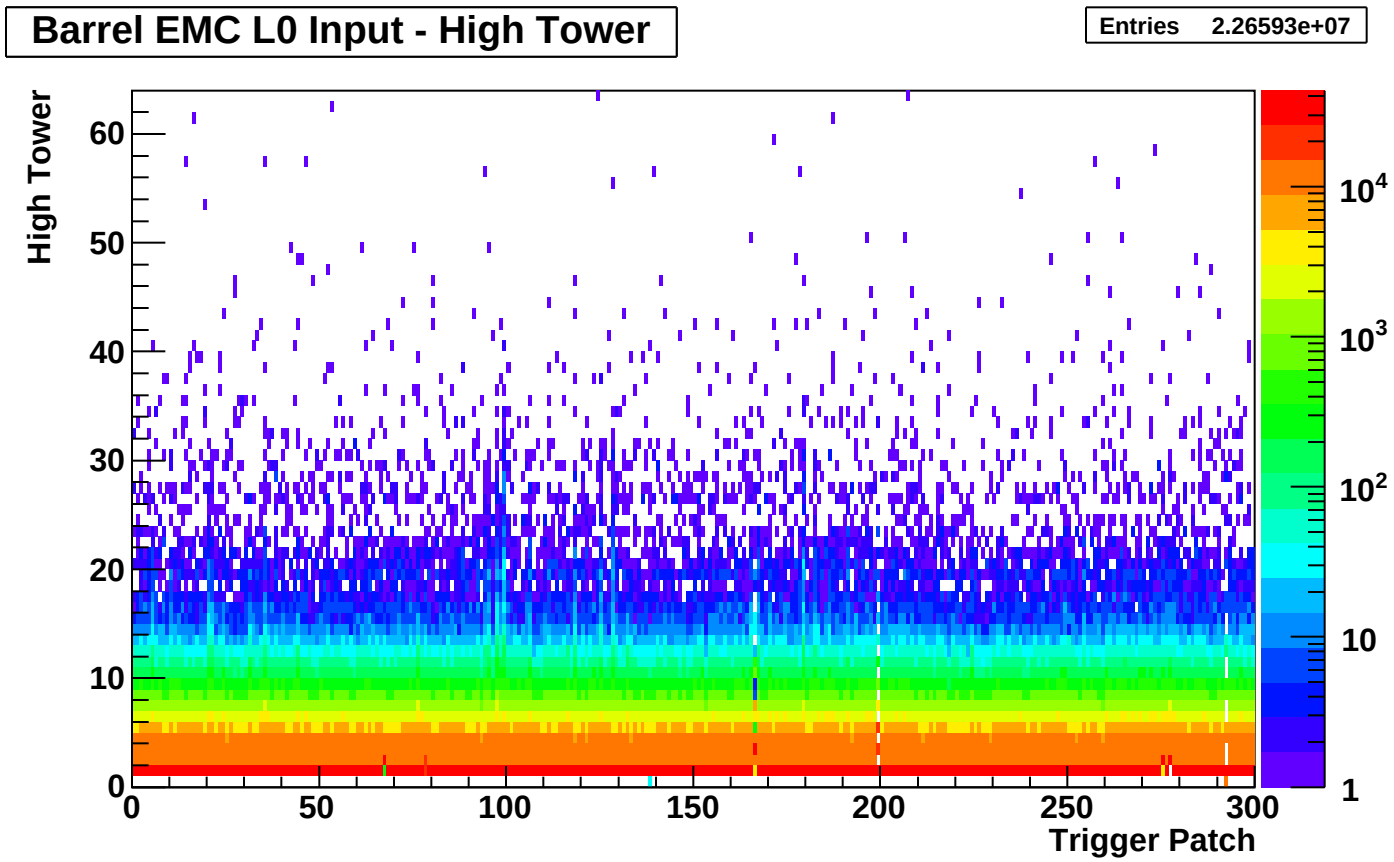

Last DSM Ch3 Input
Entries 1132965
LD301 Ch3
1
0
23846 7449 4346 1137 93 1 47612 44814 47155 44344 46228 43510 46919 46508 46045
51685 68082 71185 74394 75438 75530 27919 30717 28376 31187 29303 32021 28612 29023 29486
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP
1

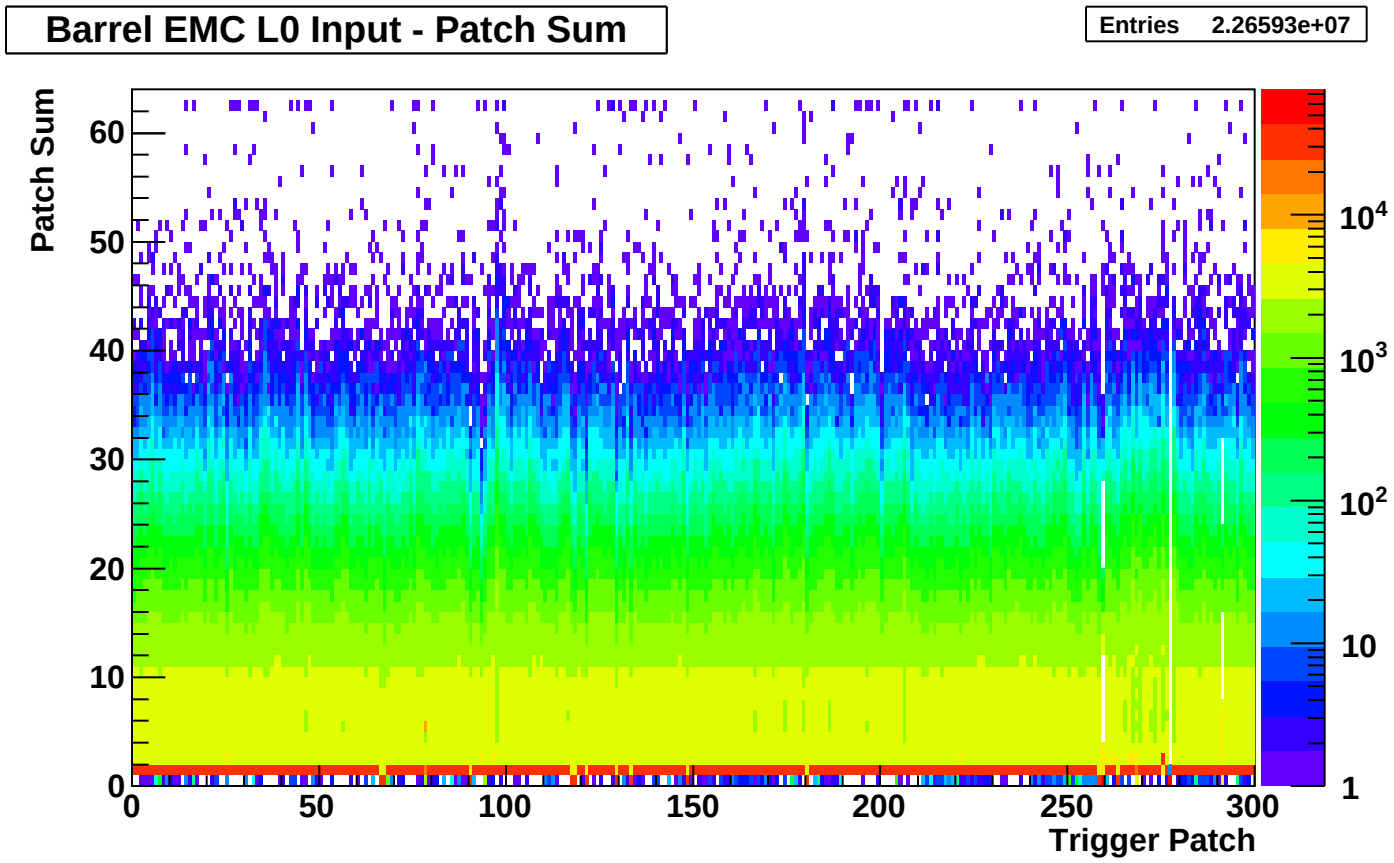

Last DSM Ch3 Input
Entries 58636
LD301 Ch3 - Simulated
1
0
-1
-2
27919 30717
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP
1

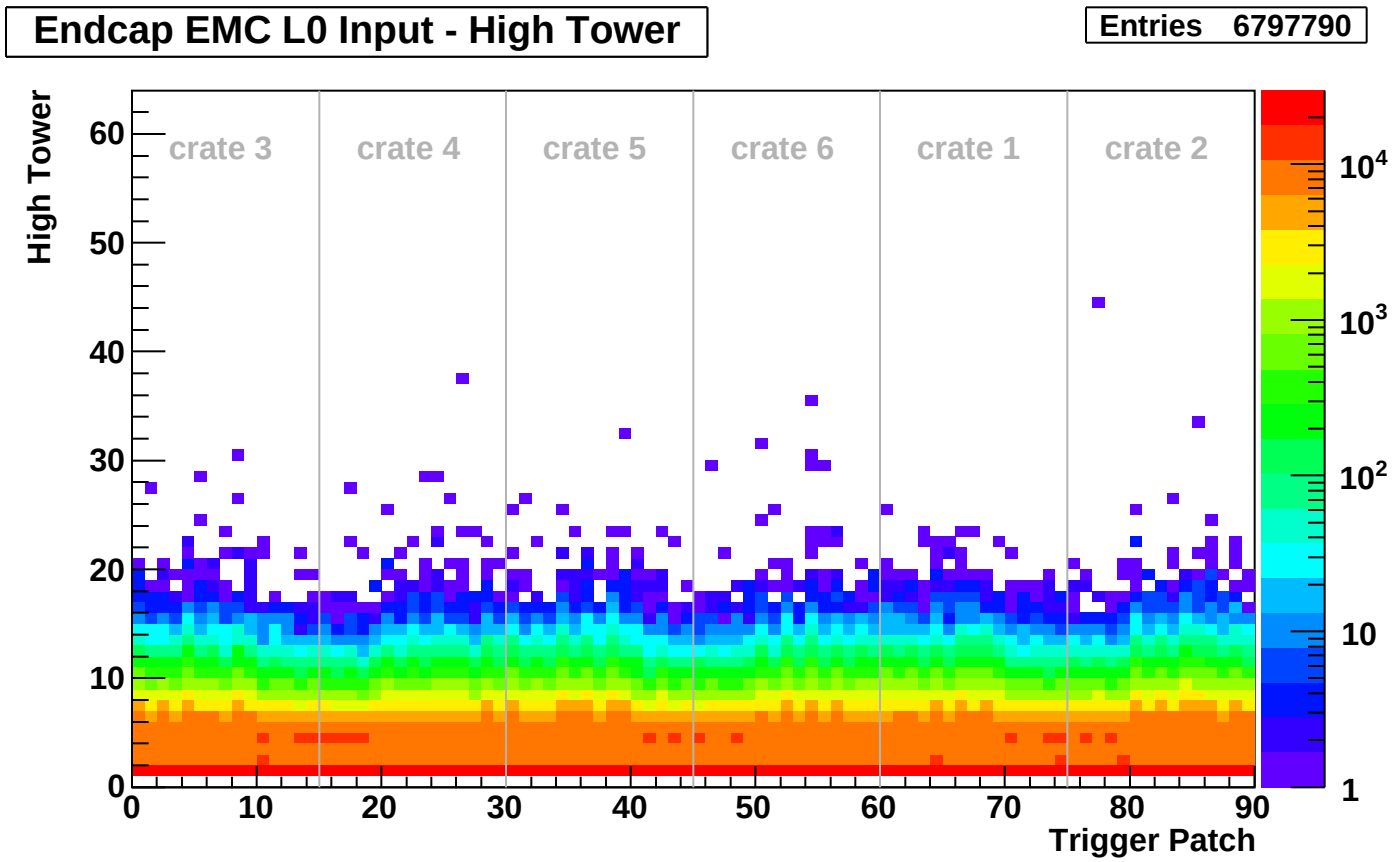

TCU bits
Entries 1208496
TCU bits
1
0
75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531 75531
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
1

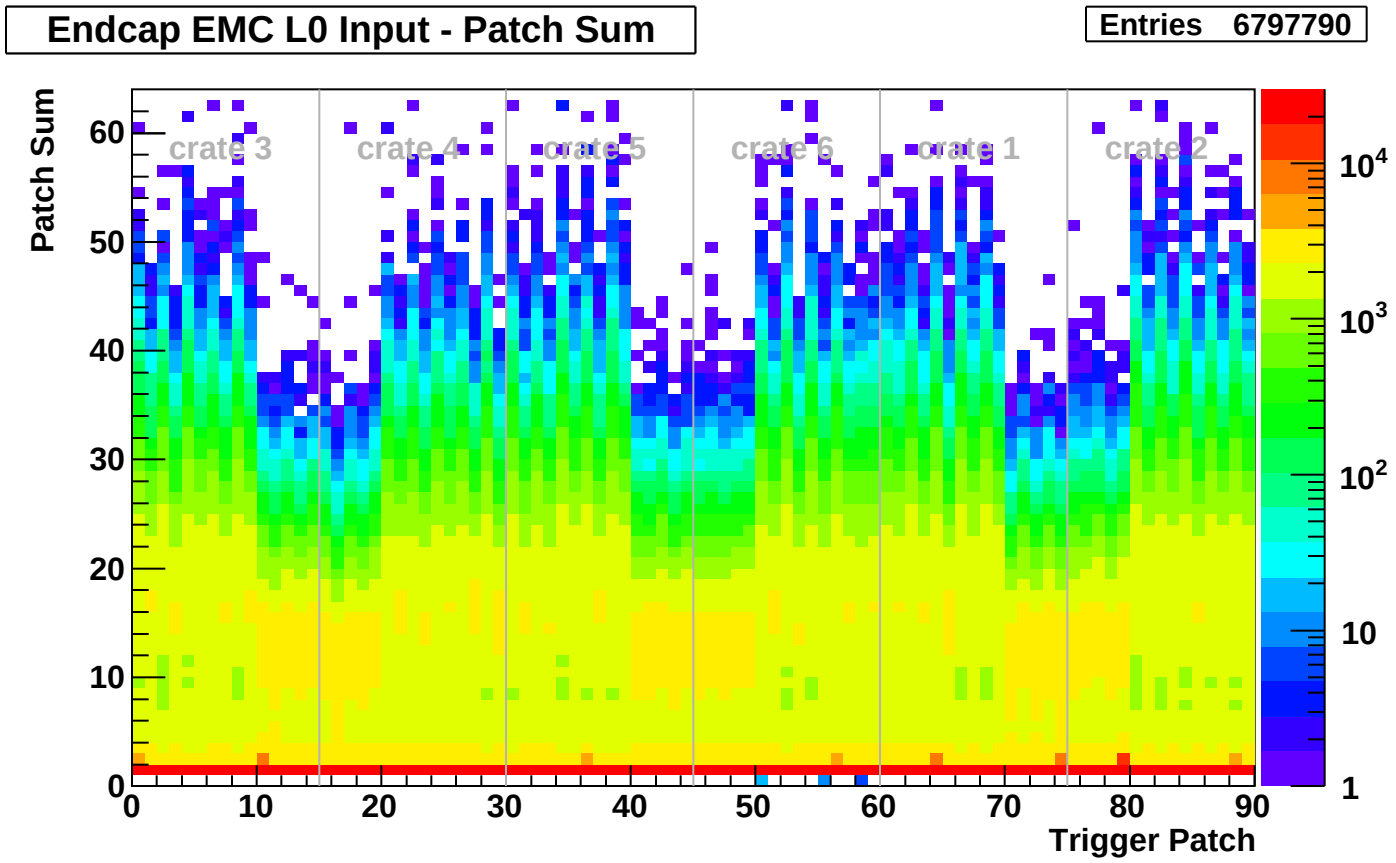

TCU bits
Entries 160083
TCU bits - Simulated
1
0
-1
-2
20743 7449 54494 93 1773 75531
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
1

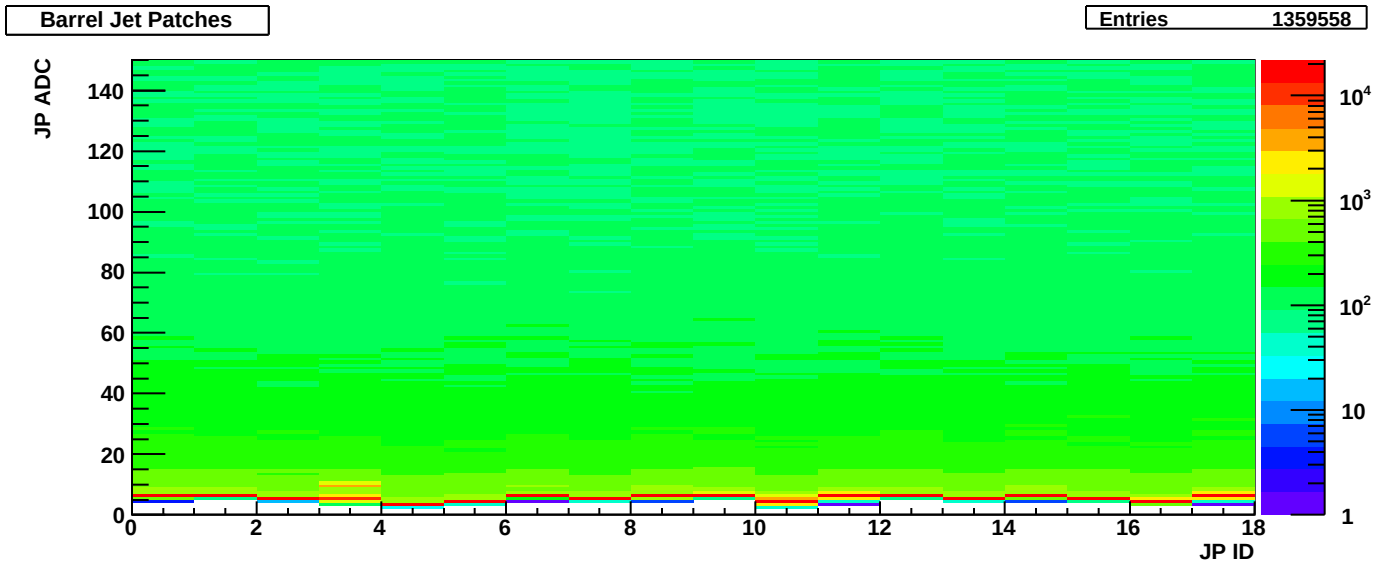

BunchId7Bit (BHT3)
Entries 1137
10
1
0 20 40 60 80 100 120

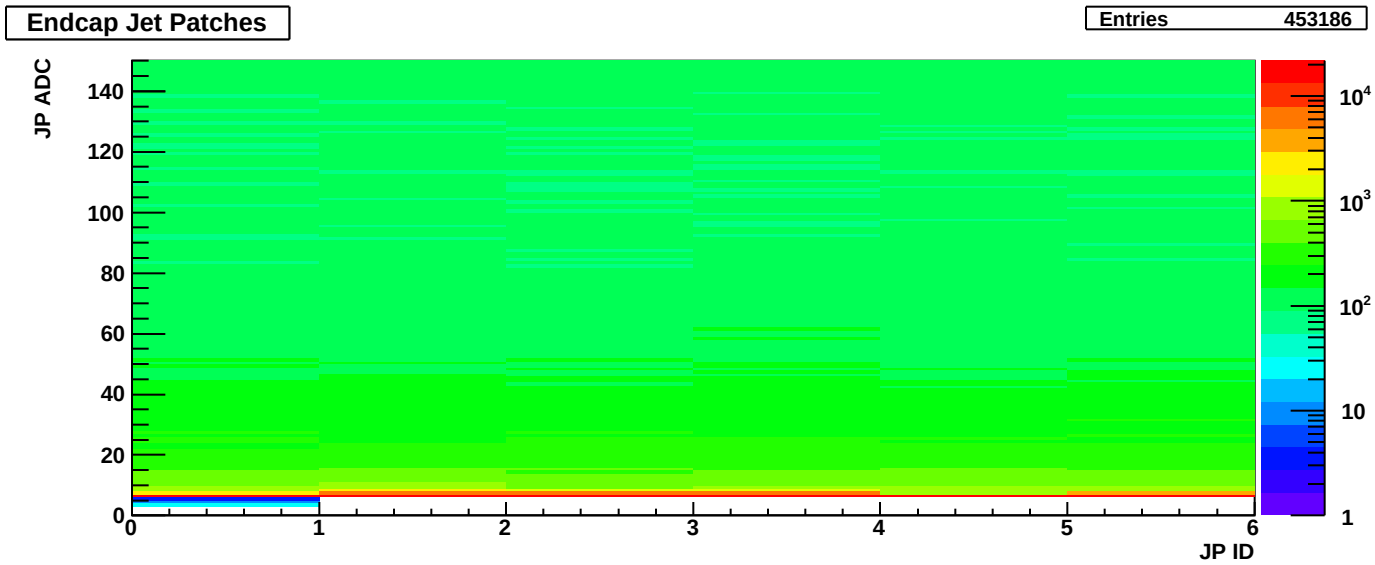

Barrel EMC L0 Input - High Tower
Entries 2.26593e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

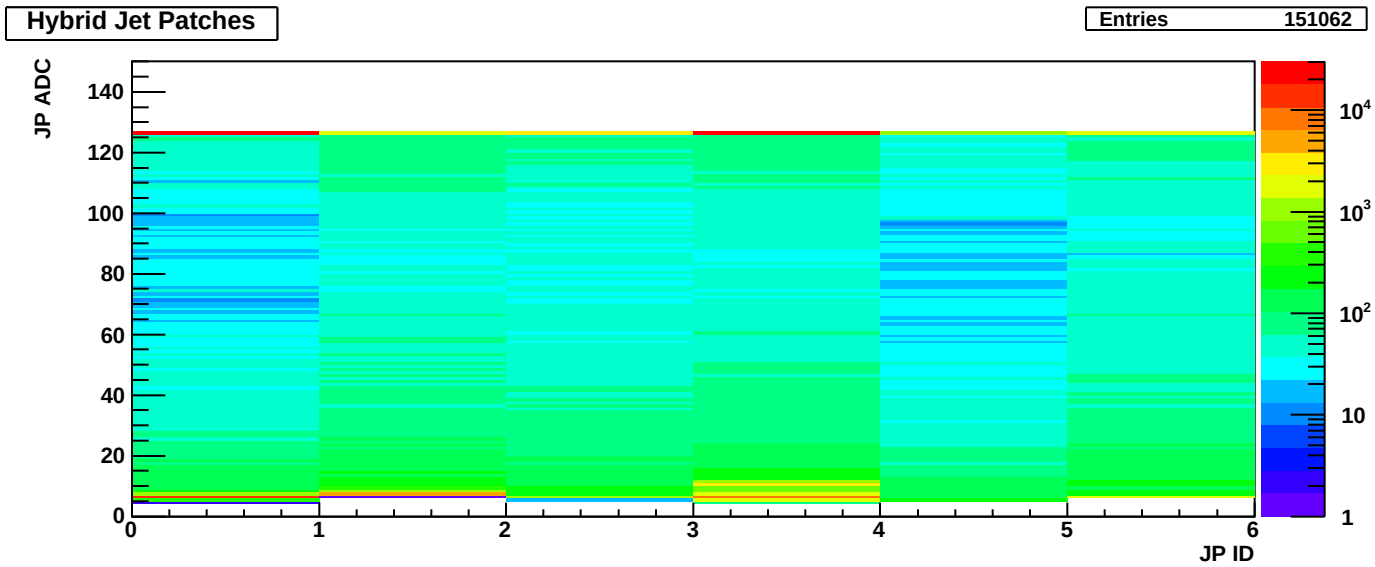

Barrel EMC L0 Input - Patch Sum
Entries 2.26593e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

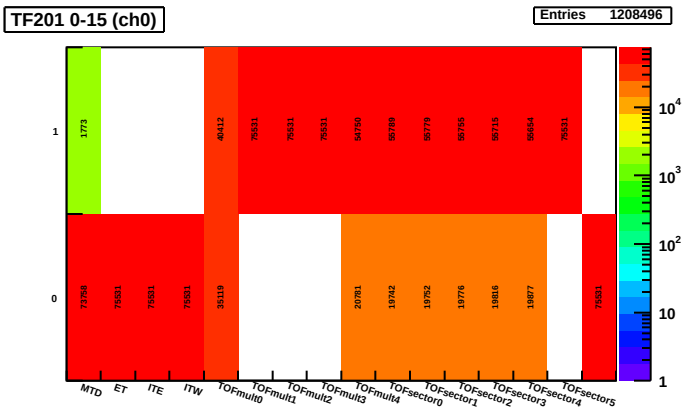

Endcap EMC L0 Input - High Tower
Entries 6797790
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

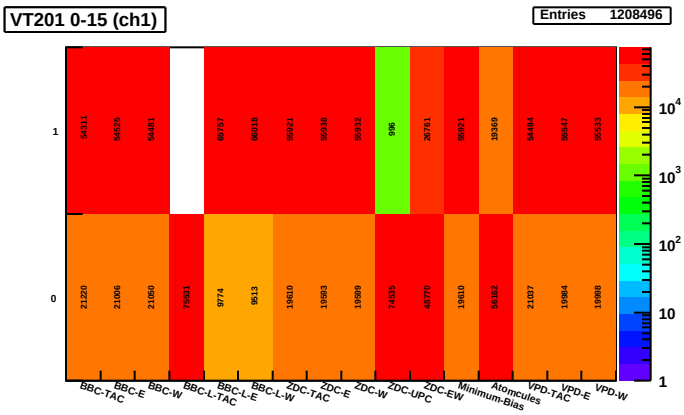

Endcap EMC L0 Input - Patch Sum
Entries 6797790
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

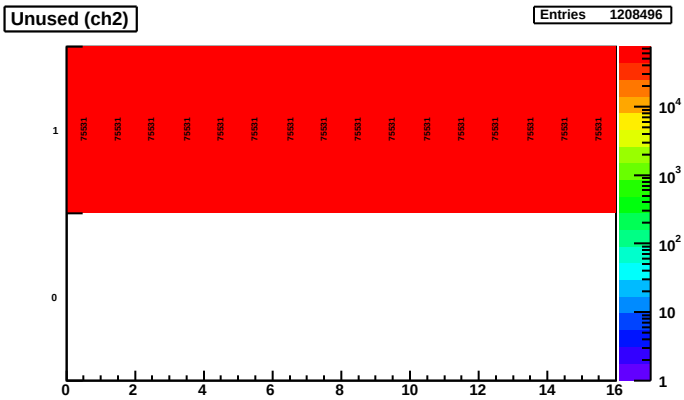

Barrel Jet Patches
Entries 1359558
JP ADC
JP ID

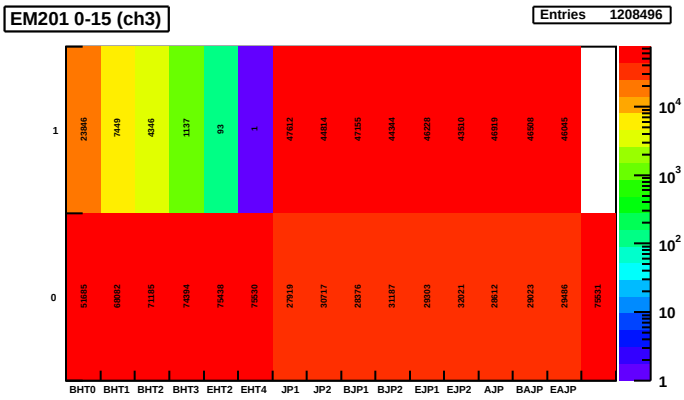

Endcap Jet Patches
Entries 453186
JP ADC
JP ID

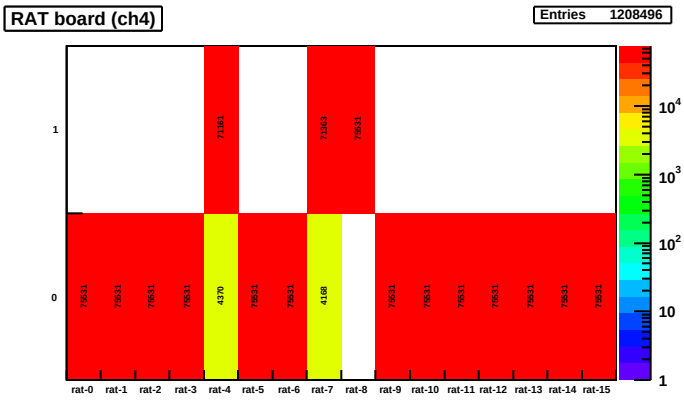

Hybrid Jet Patches
Entries 151062
JP ADC
JP ID

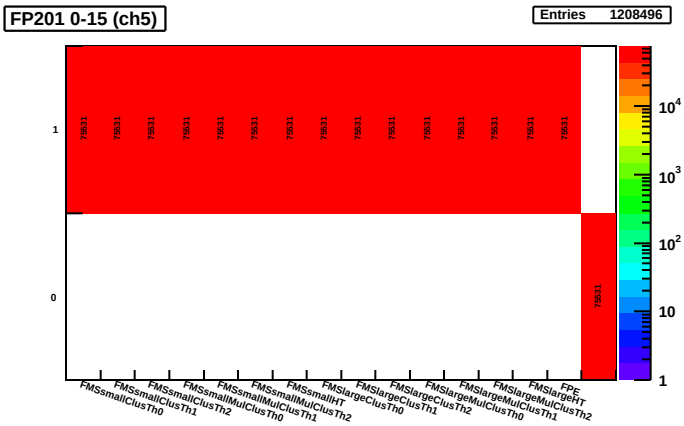

TF201 0-15 (ch0)
Entries 1208496
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

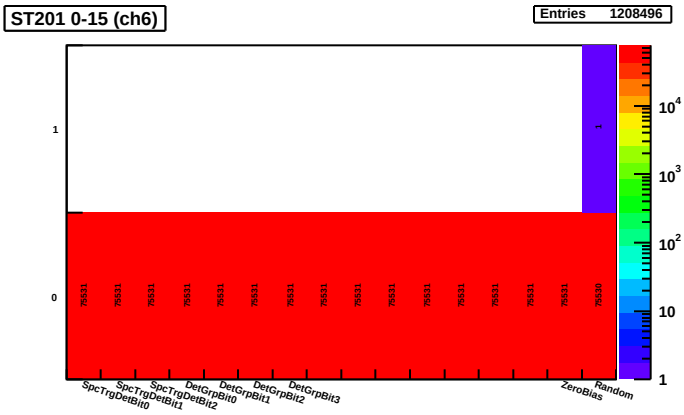

VT201 0-15 (ch1)
Entries 1208496
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

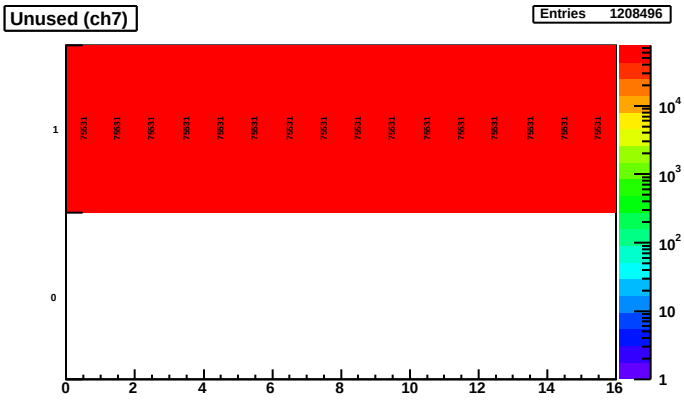

Unused (ch2)
Entries 1208496

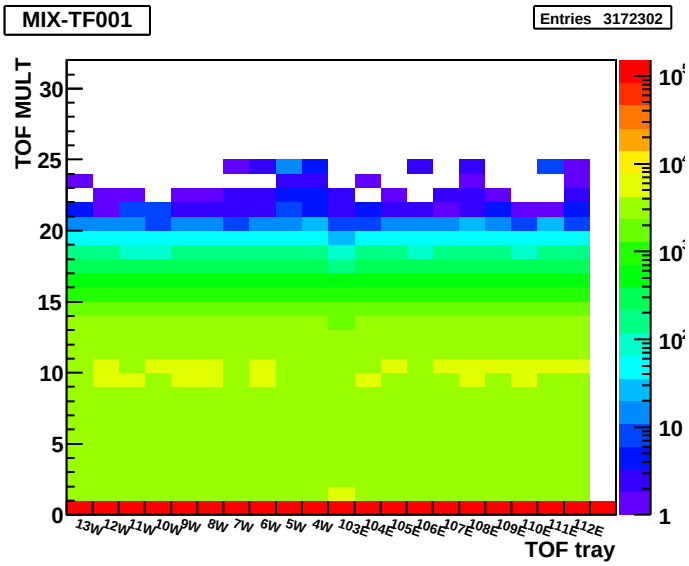

EM201 0-15 (ch3)
Entries 1208496
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

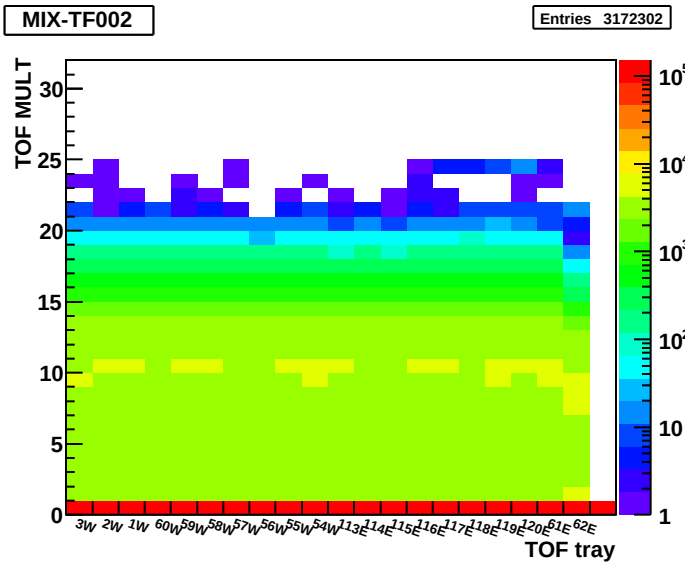

RAT board (ch4)
Entries 1208496
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

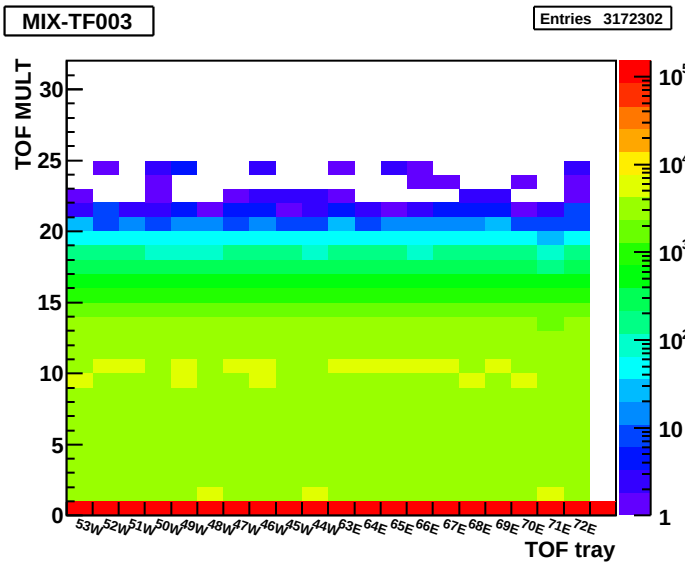

FP201 0-15 (ch5)
Entries 1208496
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

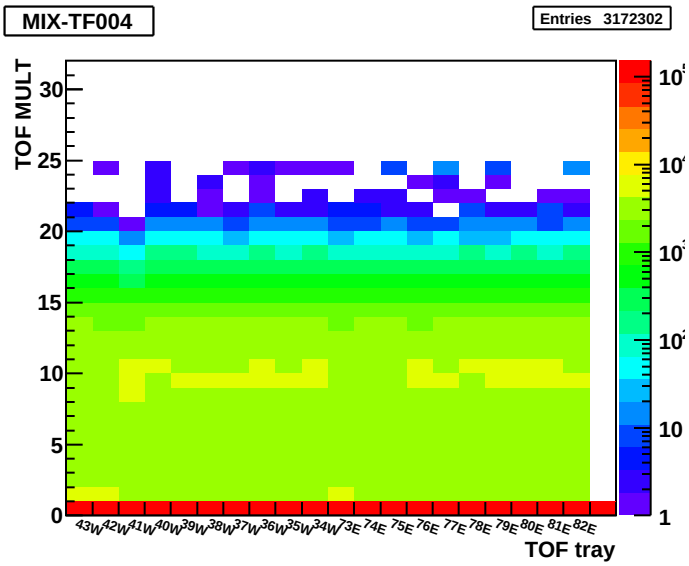

ST201 0-15 (ch6)
Entries 1208496
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

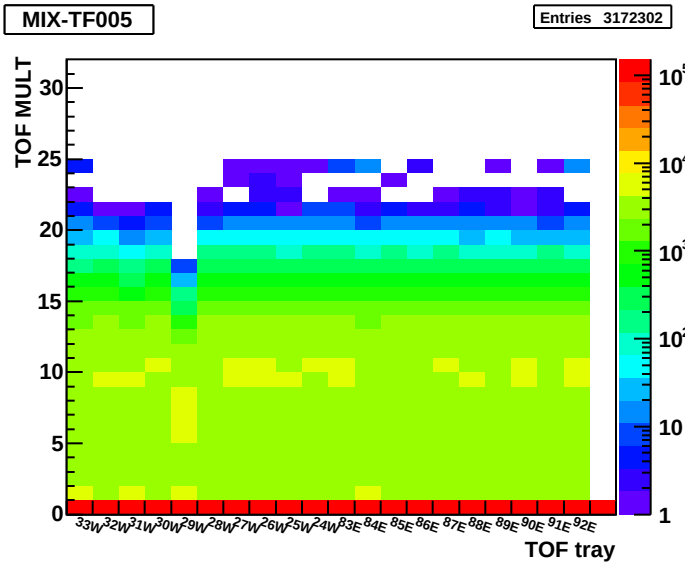

Unused (ch7)
Entries 1208496

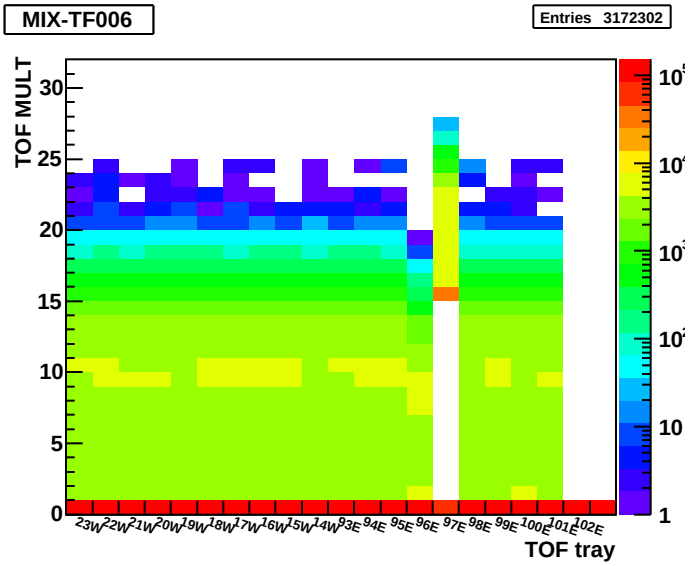

MIX-TF001
Entries 3172302
TOF MULT
TOF tray

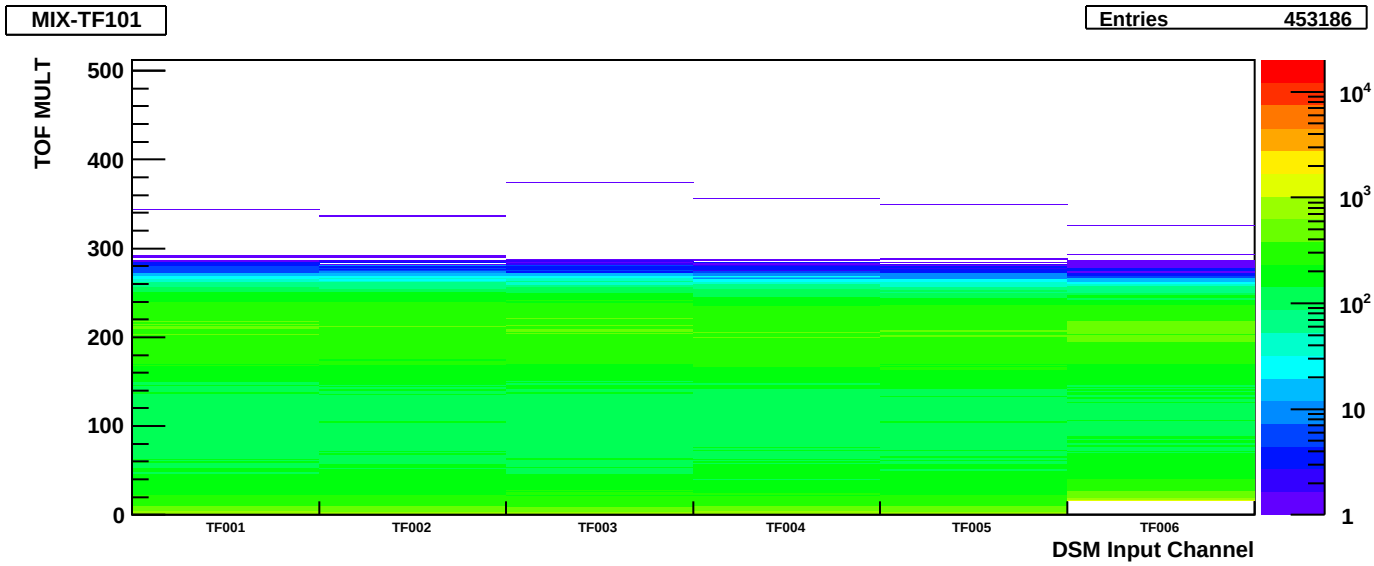

MIX-TF002
Entries 3172302
TOF MULT
TOF tray

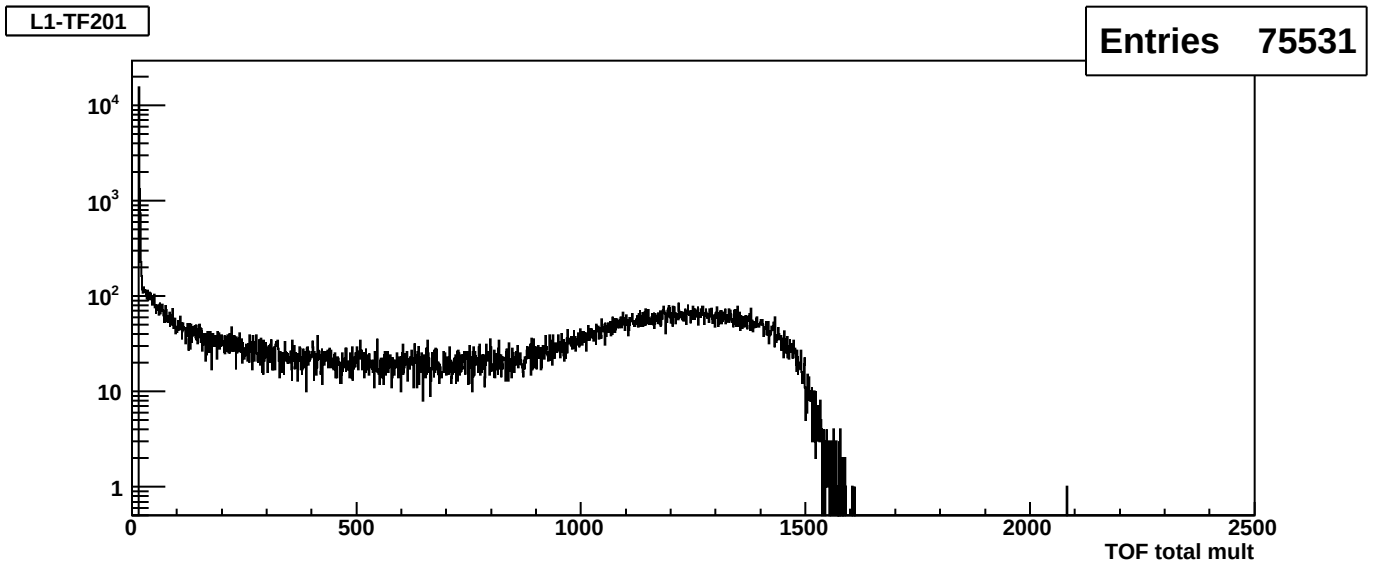

MIX-TF003
Entries 3172302
TOF MULT
TOF tray

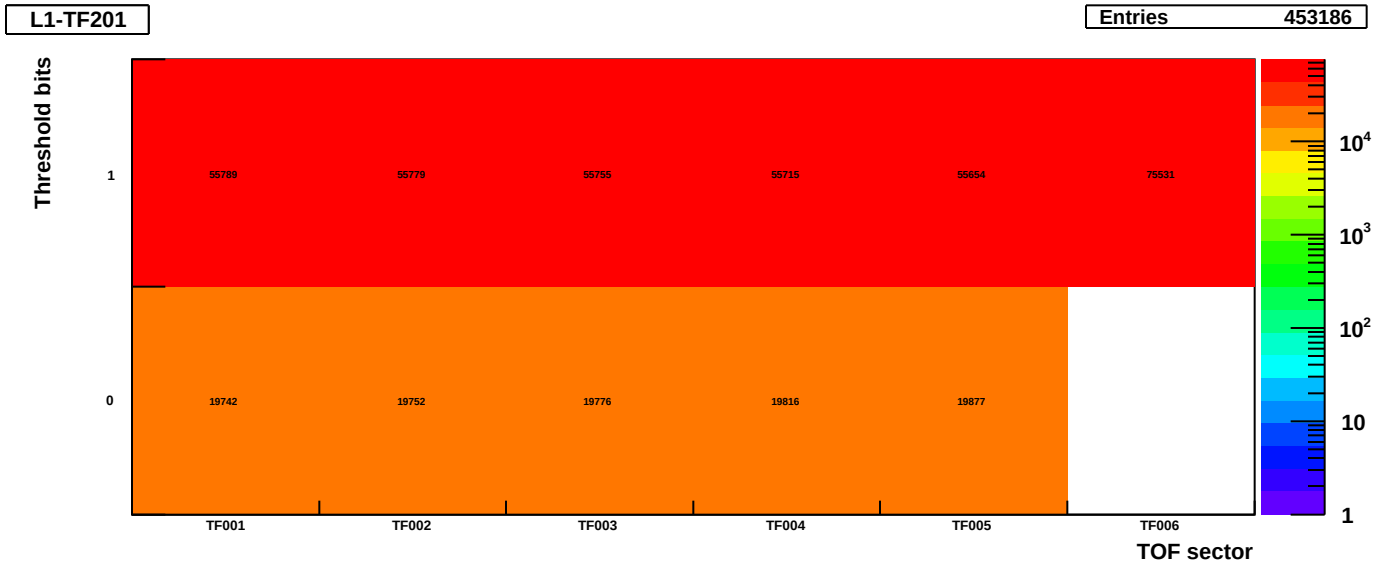

MIX-TF004
Entries 3172302
TOF MULT
TOF tray

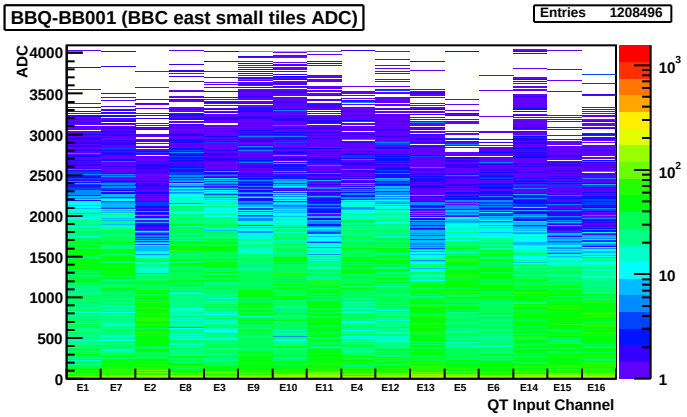

MIX-TF005
Entries 3172302
TOF MULT
TOF tray

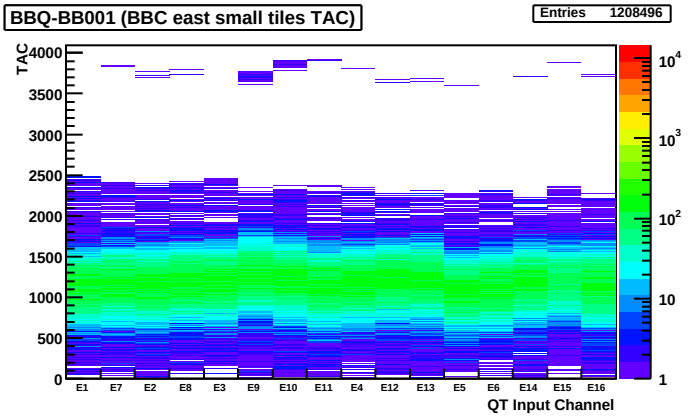

MIX-TF006
Entries 3172302
TOF MULT
TOF tray

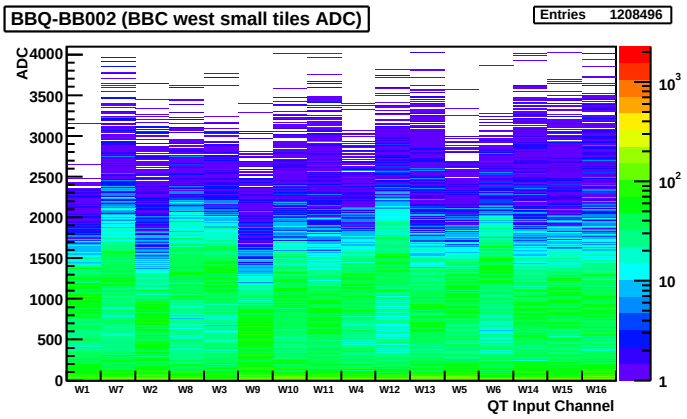

MIX-TF101
Entries 453186
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

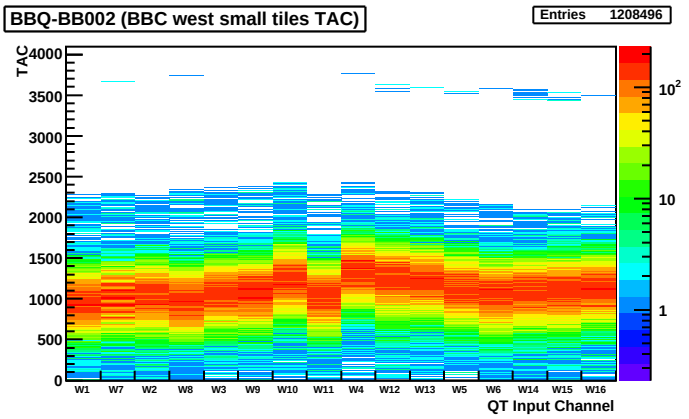

L1-TF201
Entries 75531
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

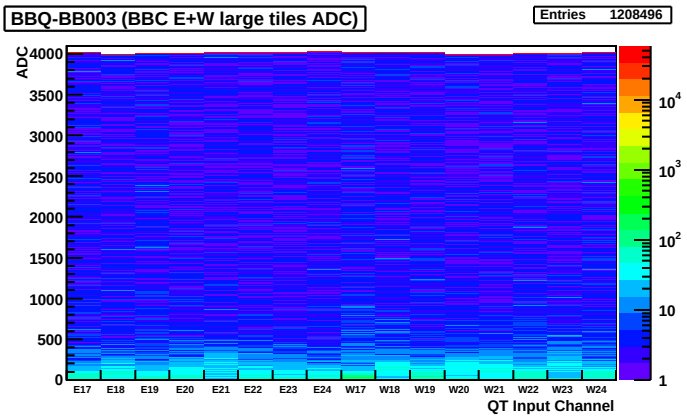

L1-TF201
Entries 453186
Threshold bits
1
0
55789
55779
55755
55715
55654
75531
19742
19752
19776
19816
19877
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3
10^2
10
1

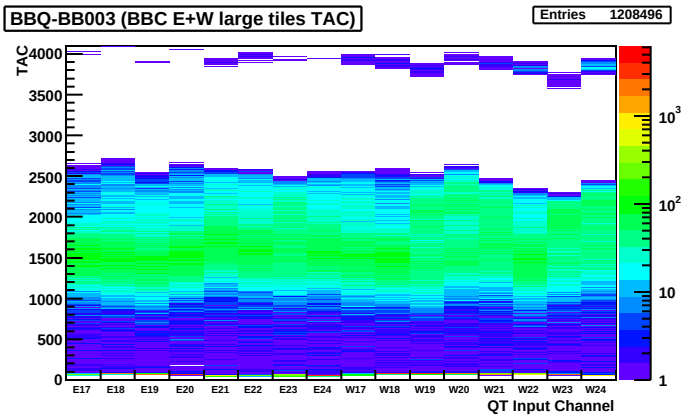

BBQ-BB001 (BBC east small tiles ADC)
Entries 1208496
ADC
QT Input Channel

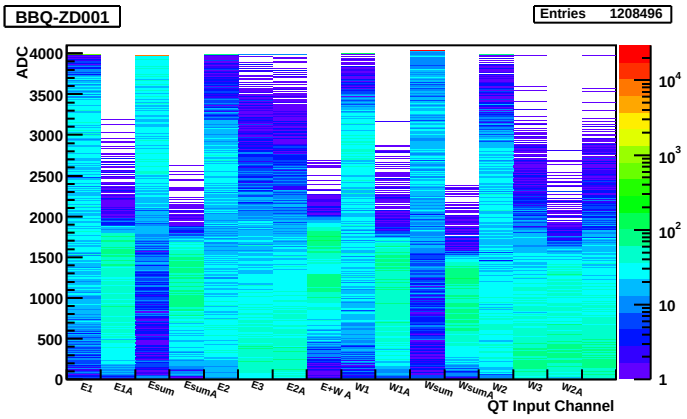

BBQ-BB001 (BBC east small tiles TAC)
Entries 1208496
TAC
QT Input Channel

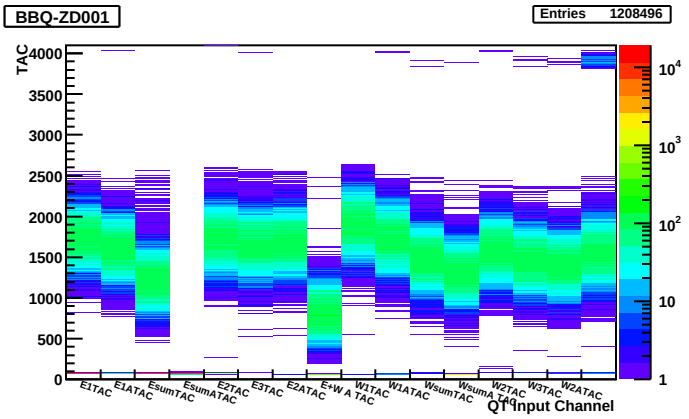

BBQ-BB002 (BBC west small tiles ADC)
Entries 1208496
ADC
QT Input Channel

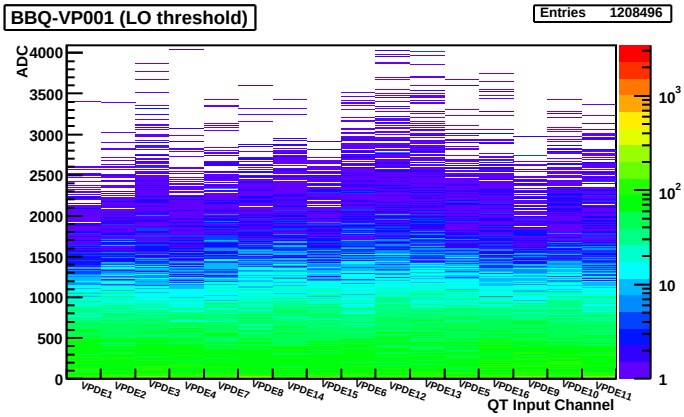

BBQ-BB002 (BBC west small tiles TAC)
Entries 1208496
TAC
QT Input Channel

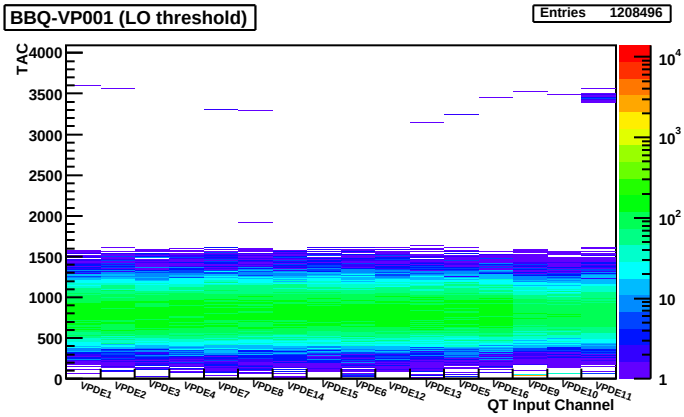

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1208496
ADC
QT Input Channel

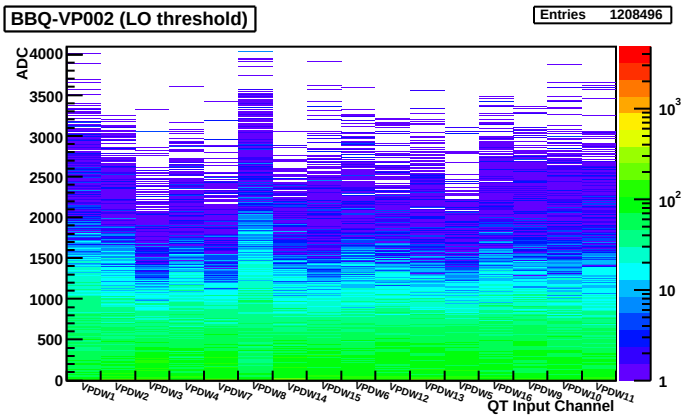

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1208496
TAC
QT Input Channel

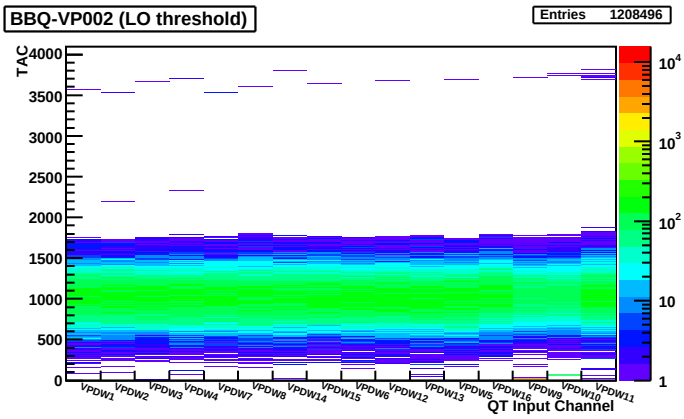

BBQ-ZD001
Entries 1208496
ADC
QT Input Channel

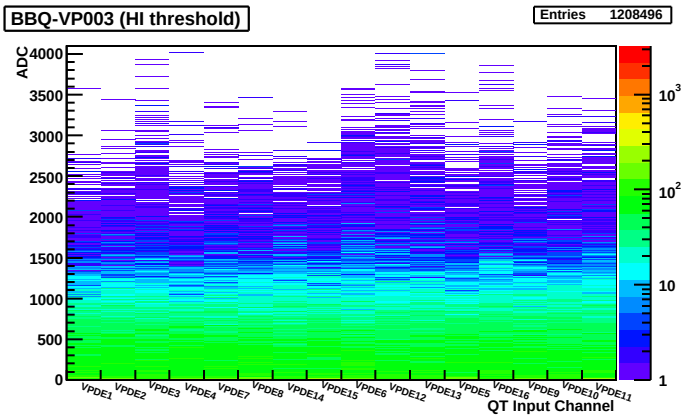

BBQ-ZD001
Entries 1208496
TAC
QT Input Channel

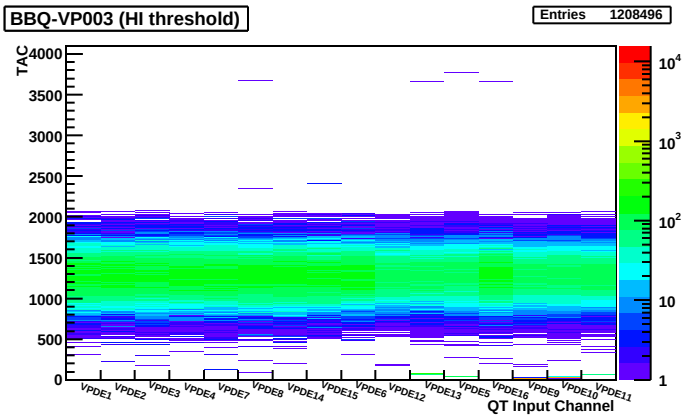

BBQ-VP001 (LO threshold)
Entries 1208496
ADC
QT Input Channel

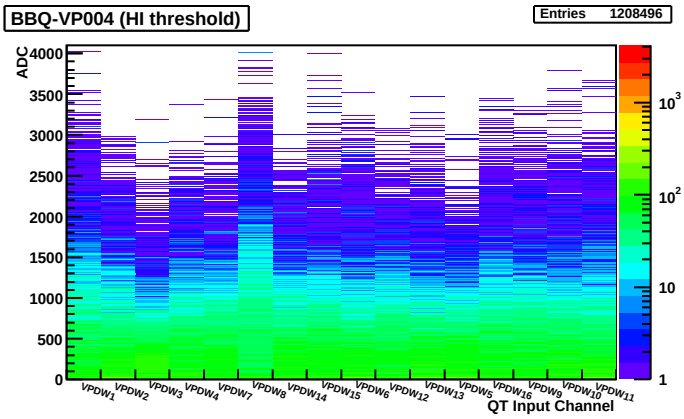

BBQ-VP001 (LO threshold)
Entries 1208496
TAC
QT Input Channel

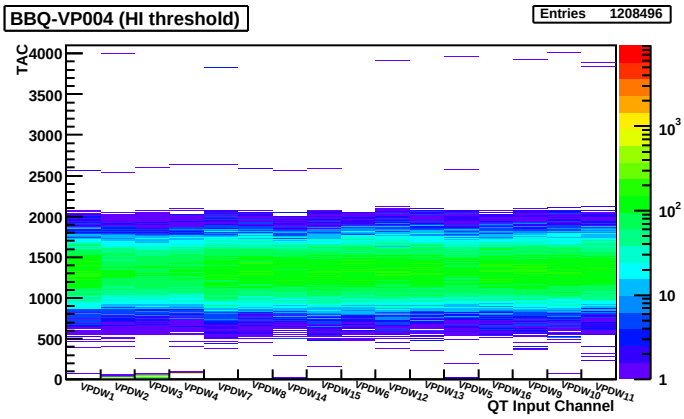

BBQ-VP002 (LO threshold)
Entries 1208496
ADC
QT Input Channel


BBQ-VP002 (LO threshold)
Entries 1208496
TAC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 1208496
ADC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 1208496
TAC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 1208496
ADC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 1208496
TAC
QT Input Channel