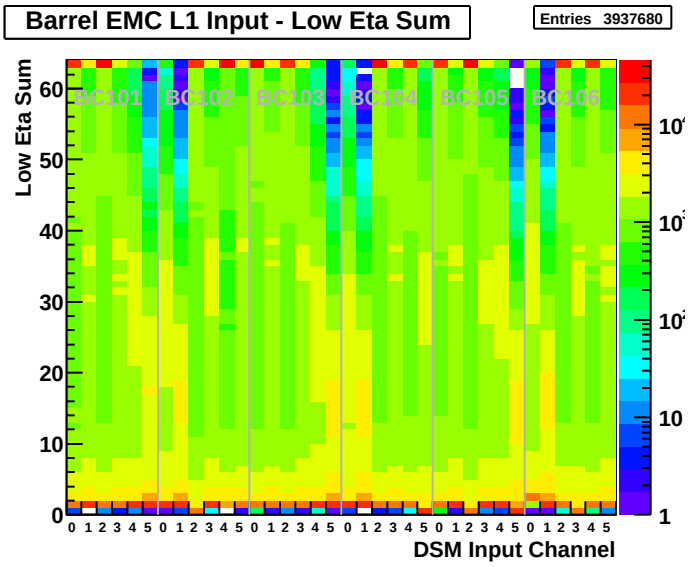
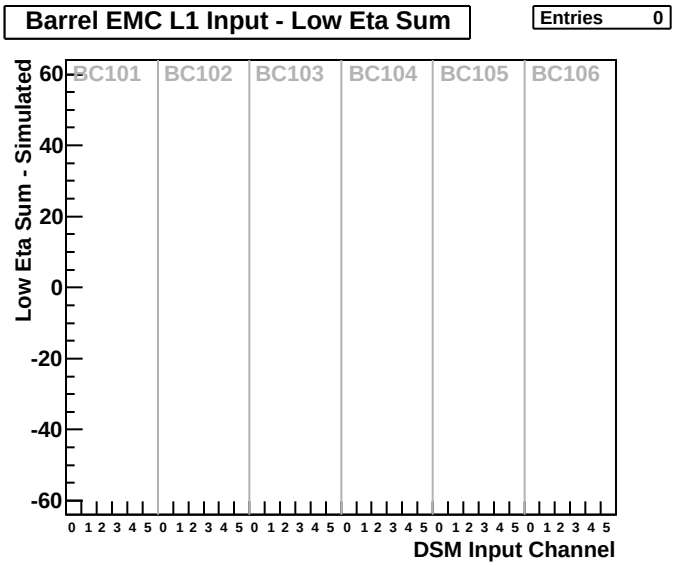
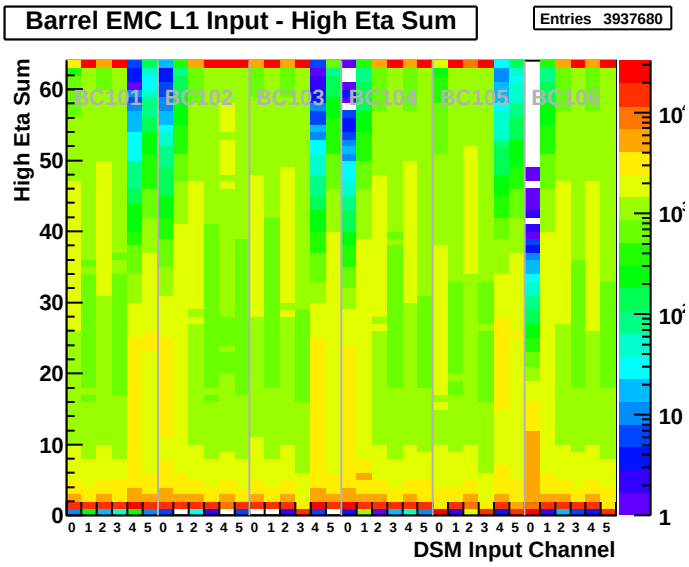
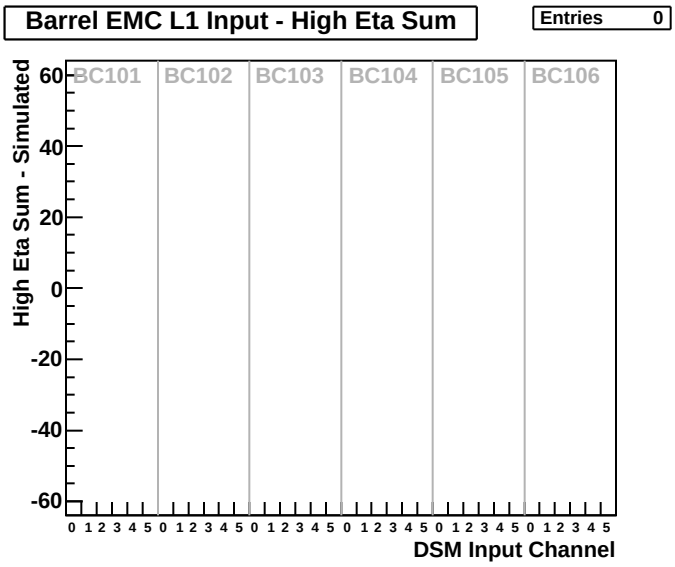
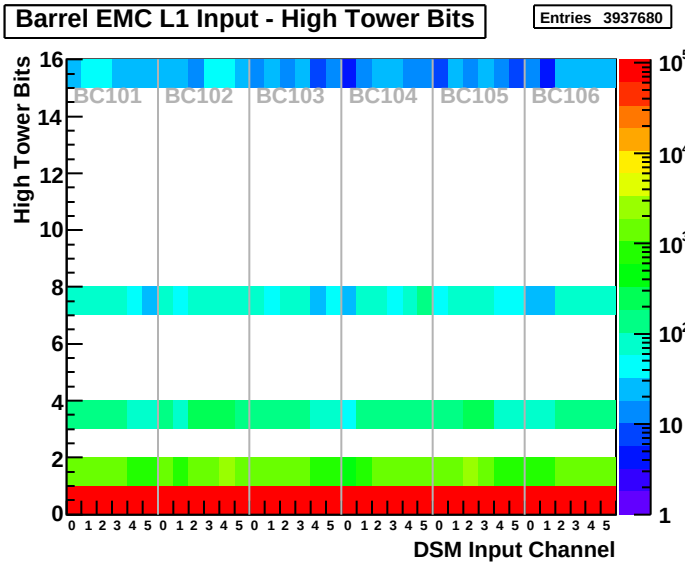
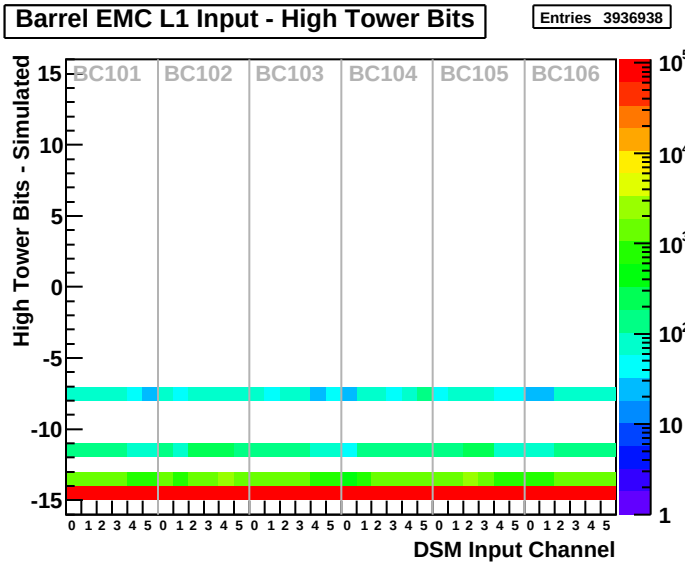

Barrel EMC L1 Input - Low Eta Sum
Entries 3937680
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

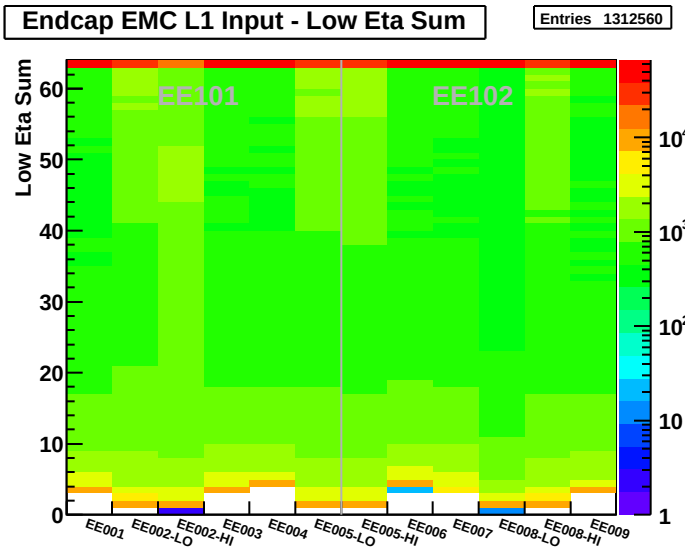

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

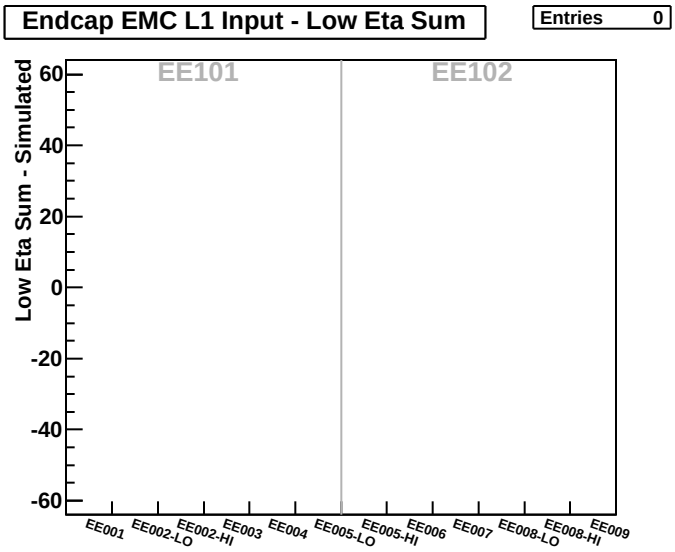

Barrel EMC L1 Input - High Eta Sum
Entries 3937680
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

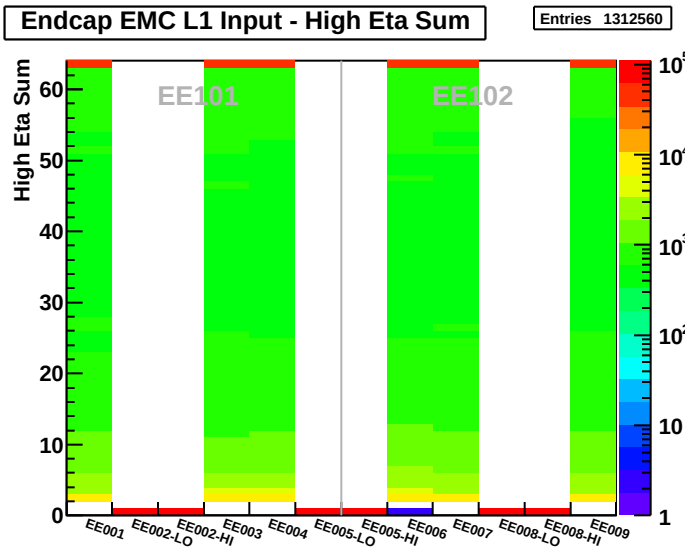

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

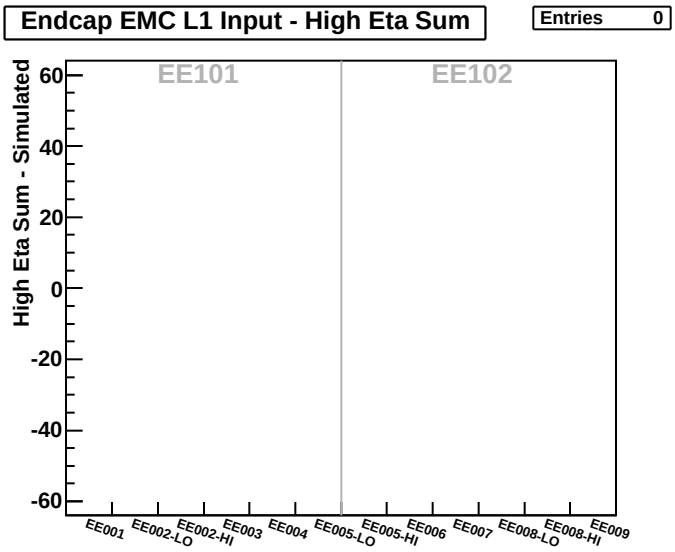

Barrel EMC L1 Input - High Tower Bits
Entries 3937680
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

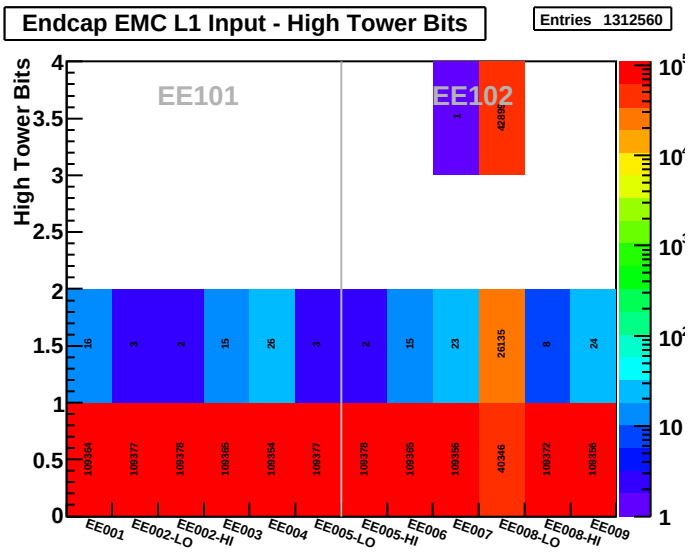

Barrel EMC L1 Input - High Tower Bits
Entries 3936938
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

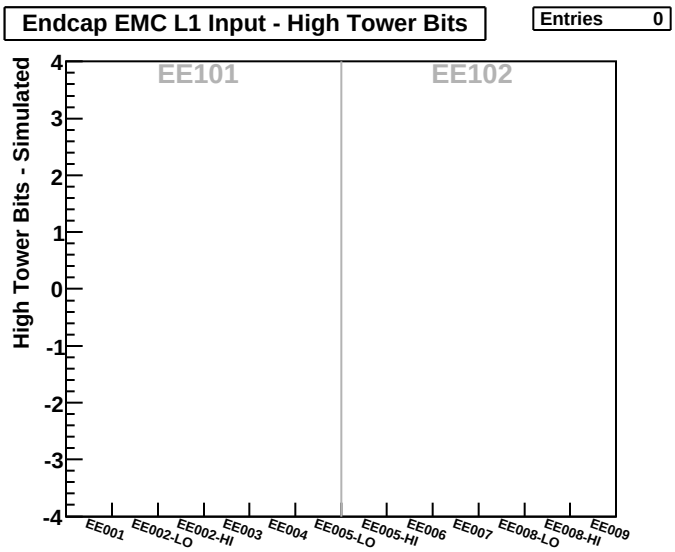

Endcap EMC L1 Input - Low Eta Sum
Entries 1312560
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

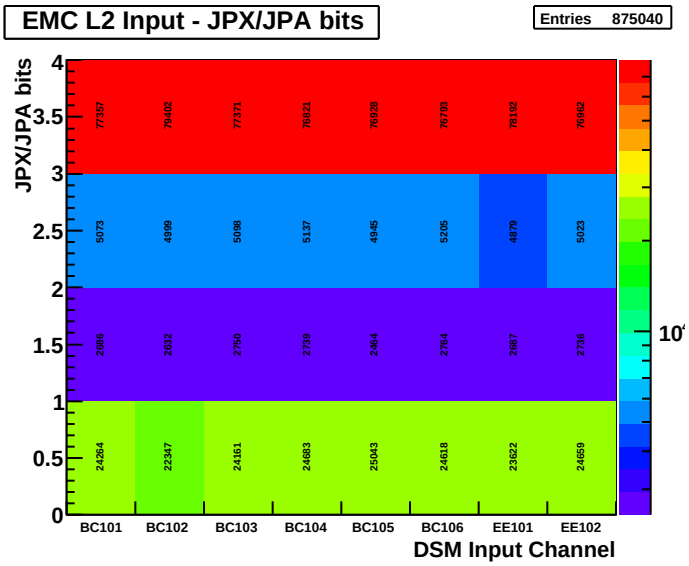

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

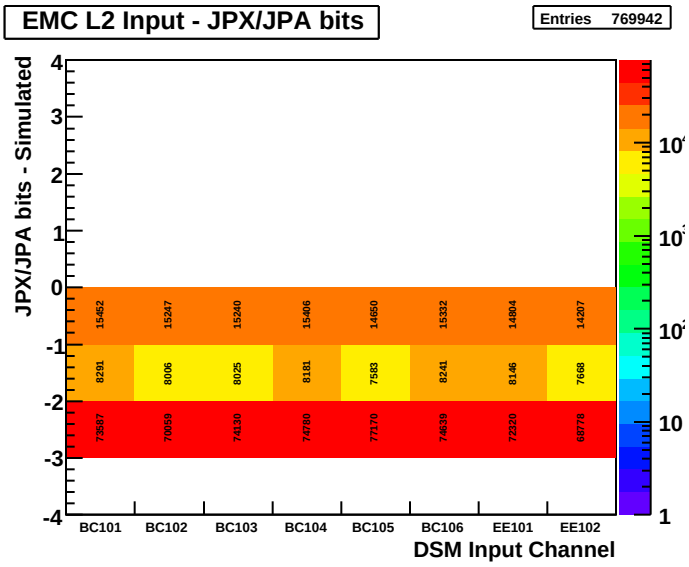

Endcap EMC L1 Input - High Eta Sum
Entries 1312560
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

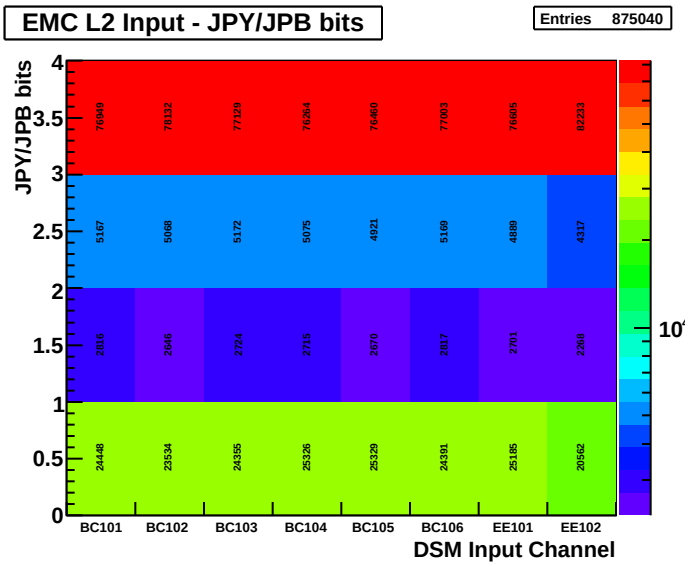

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

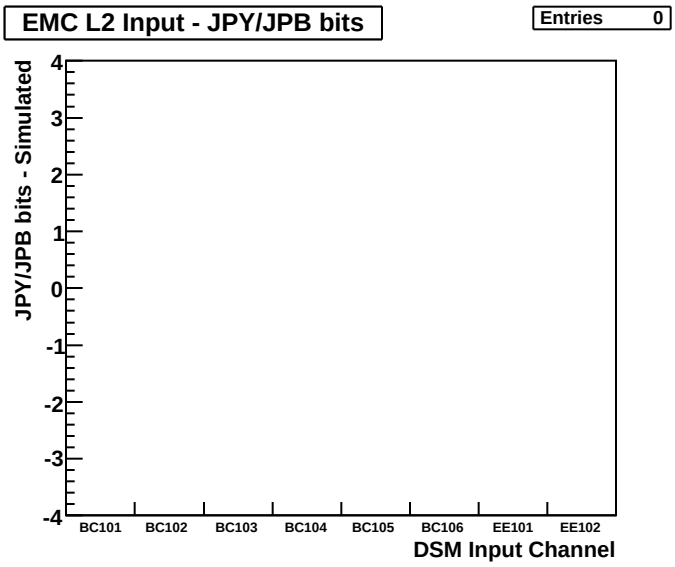

Endcap EMC L1 Input - High Tower Bits
Entries 1312560
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

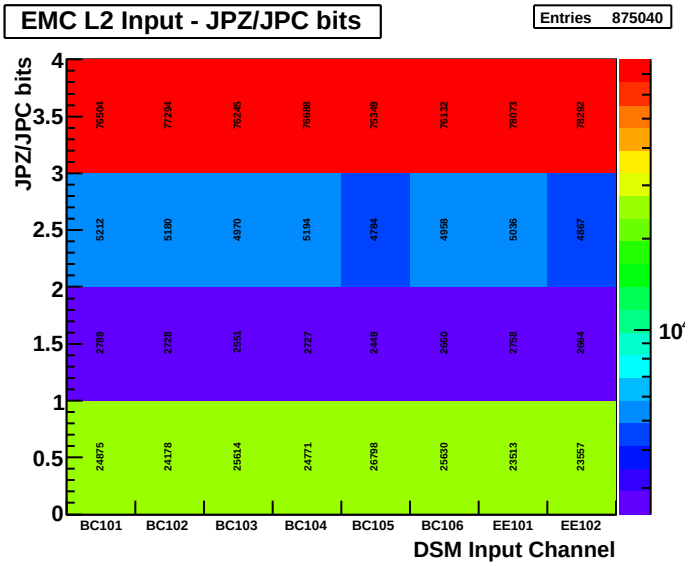

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

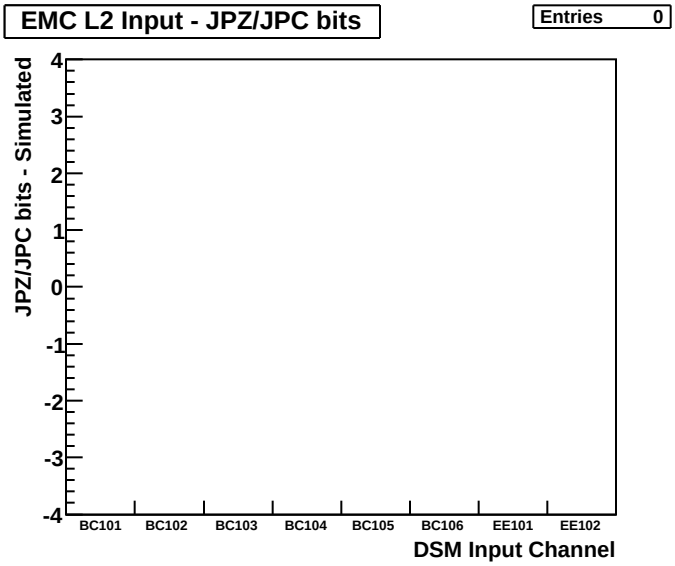

EMC L2 Input - JPX/JPA bits
Entries 875040
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
77357 79402 77371 76821 76928 76793 78192 76962
5073 4999 5098 5137 4945 5205 4879 5023
2686 2632 2750 2739 2464 2764 2687 2736
24264 22347 24161 24683 25043 24618 23622 24659

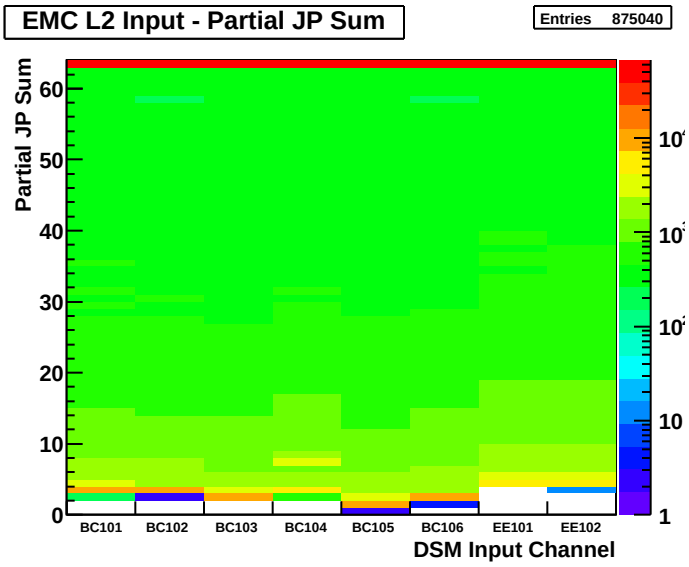

EMC L2 Input - JPX/JPA bits
Entries 769942
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
15452 15247 15240 15406 14650 15332 14804 14207
8291 8006 8025 8181 7583 8241 8146 7568
73587 70059 74130 74780 77170 74639 72320 68778

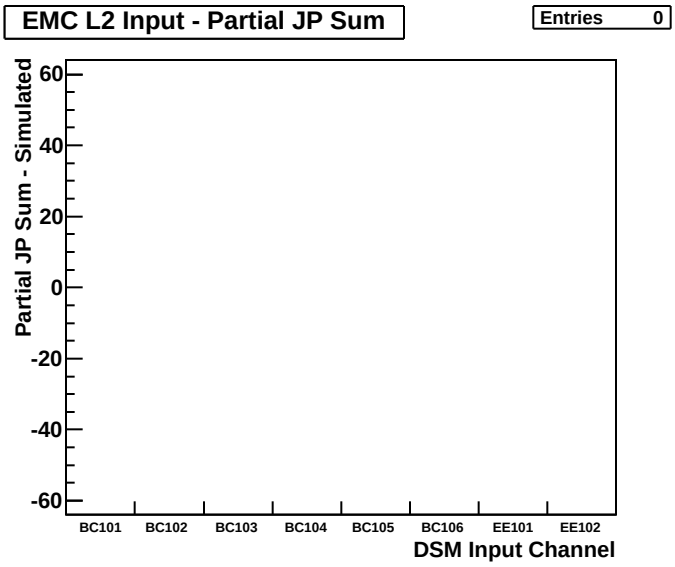

EMC L2 Input - JPY/JPB bits
Entries 875040
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
76949 78132 77129 76264 76460 77003 76605 82233
5167 5068 5172 5075 4921 5169 4889 4317
2616 2546 2724 2715 2670 2617 2701 2238
24448 23534 24355 25326 25329 24391 25185 20562

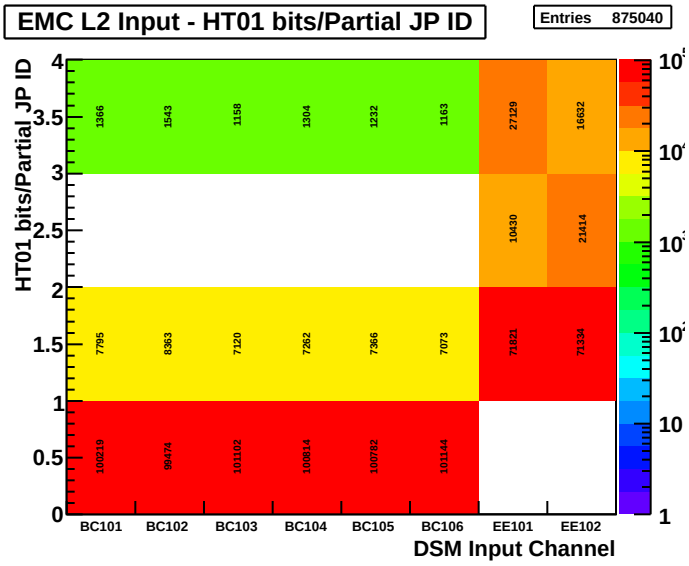

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

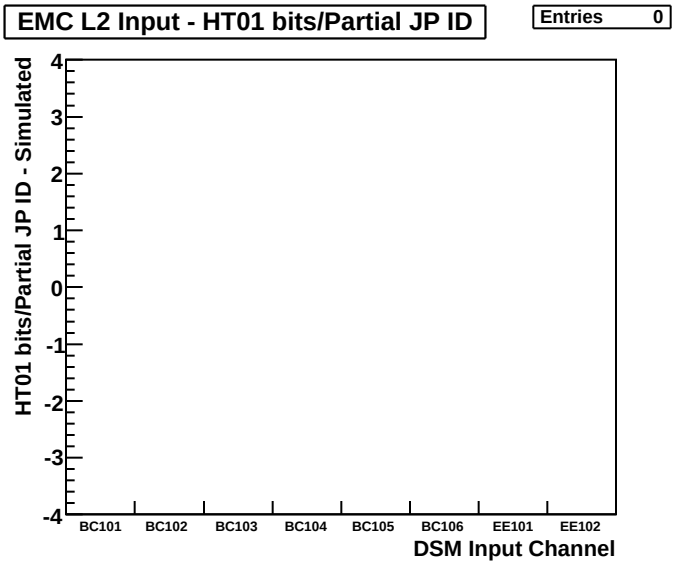

EMC L2 Input - JPZ/JPC bits
Entries 875040
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
76504 77294 76245 76688 75349 76132 78073 78292
5212 5180 4970 5194 4784 4958 5036 4867
2789 2728 2551 2727 2449 2660 2758 2664
24875 24178 25614 24771 26798 25630 23513 23557

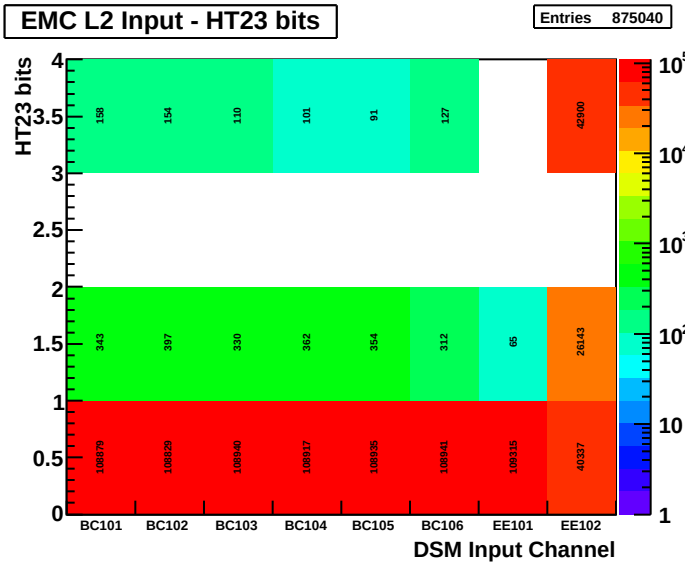

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

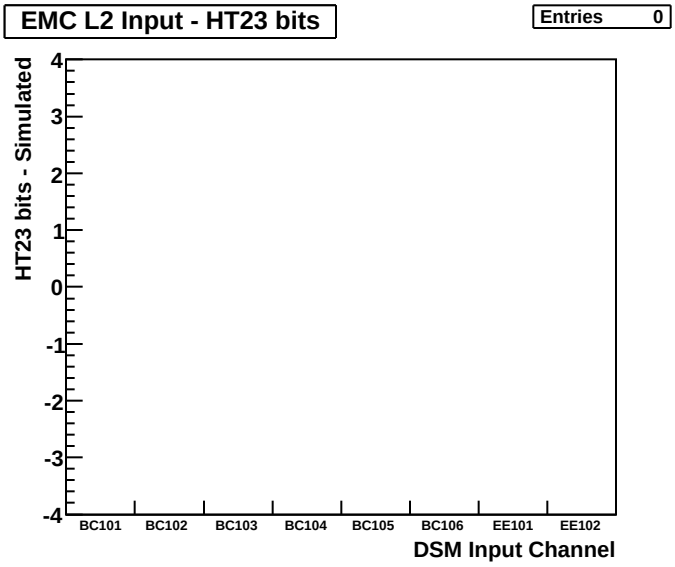

EMC L2 Input - Partial JP Sum
Entries 875040
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

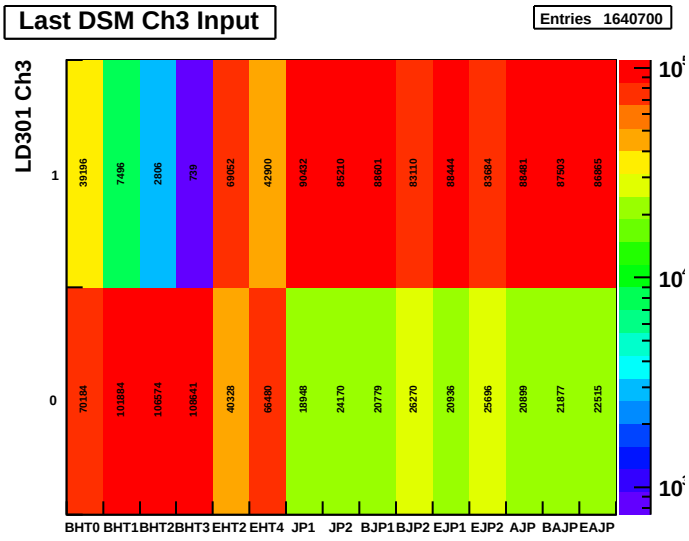

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

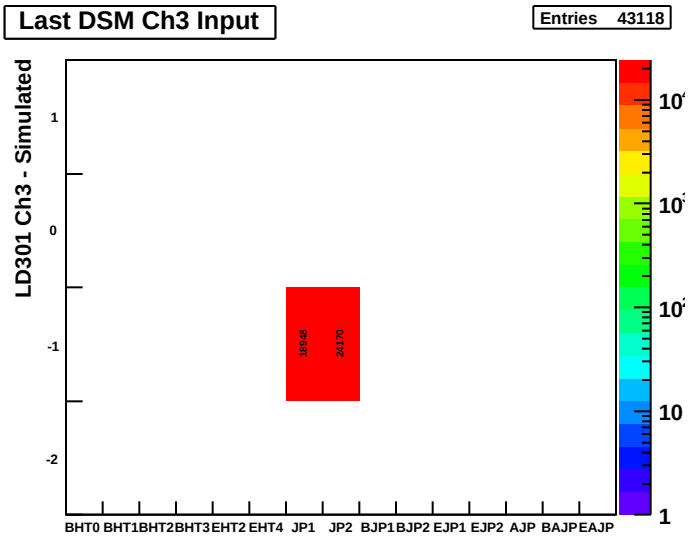

EMC L2 Input - HT01 bits/Partial JP ID
Entries 875040
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

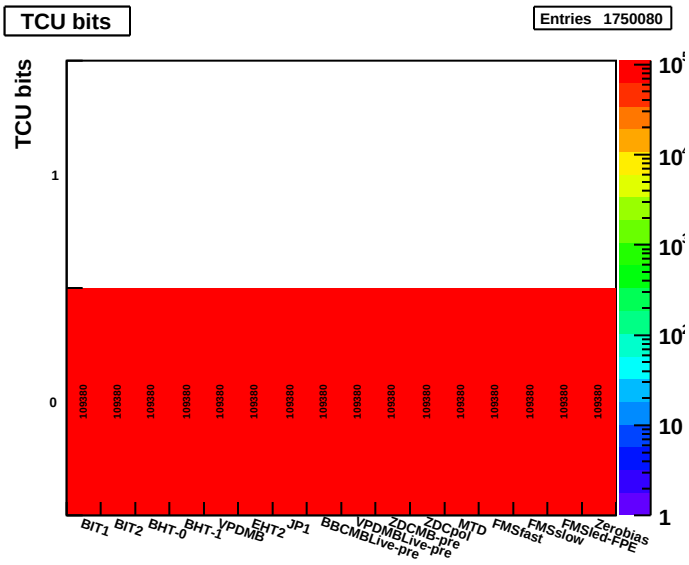

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

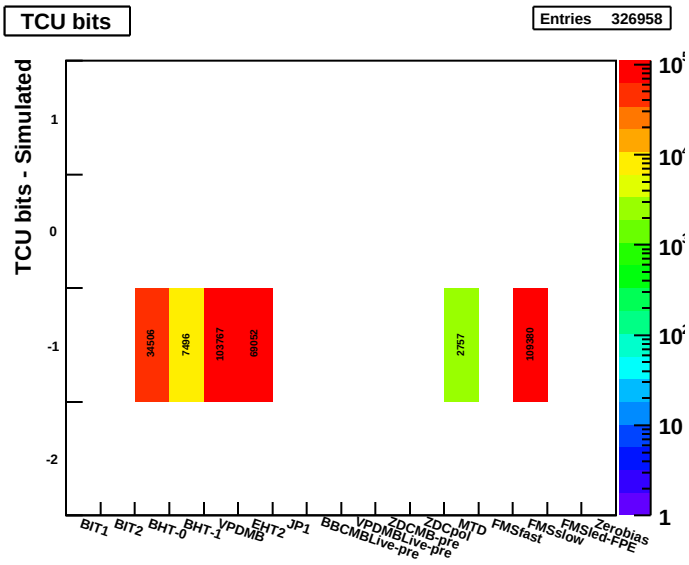

EMC L2 Input - HT23 bits
Entries 875040
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

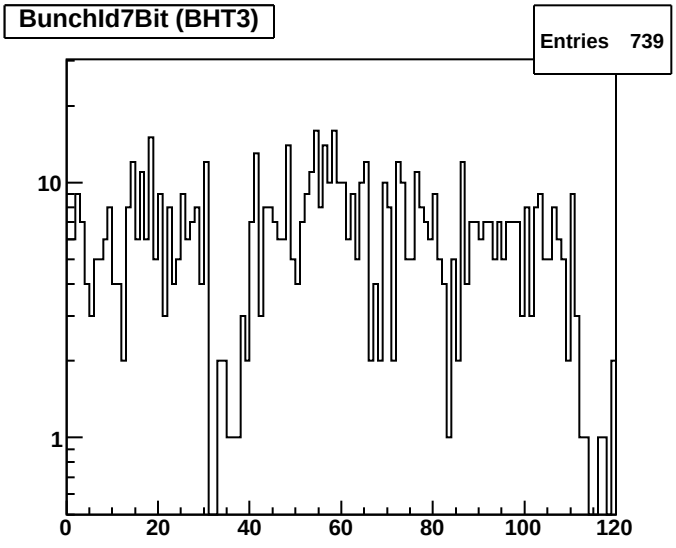

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

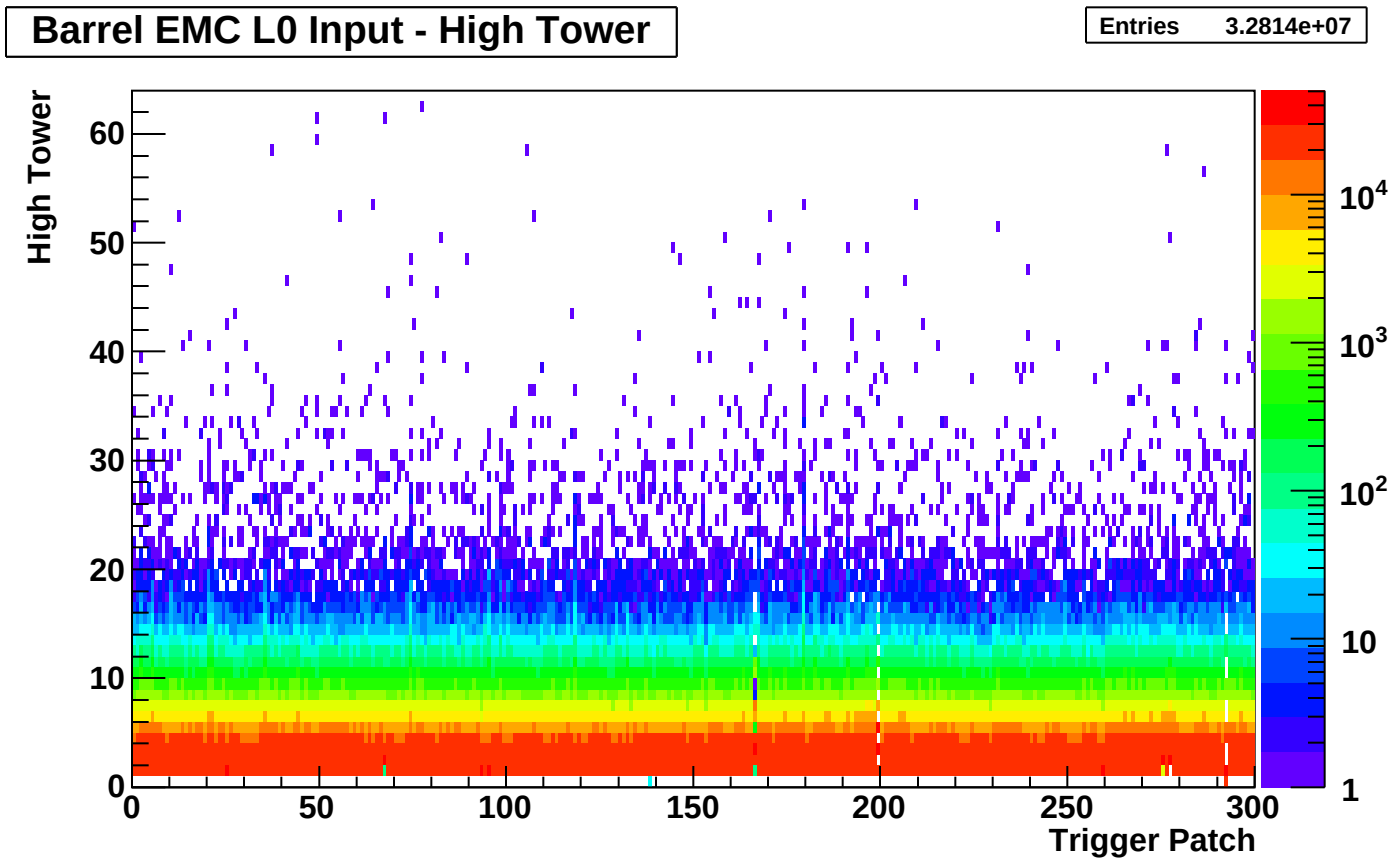

Last DSM Ch3 Input
Entries 1640700
LD301 Ch3
1
0
39196 7496 2806 739 69052 42900 90432 85210 88601 83110 88444 83684 88481 87503 86865
70184 101884 106574 108641 40328 66480 18948 24170 20779 26270 20936 25696 20899 21877 22515
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

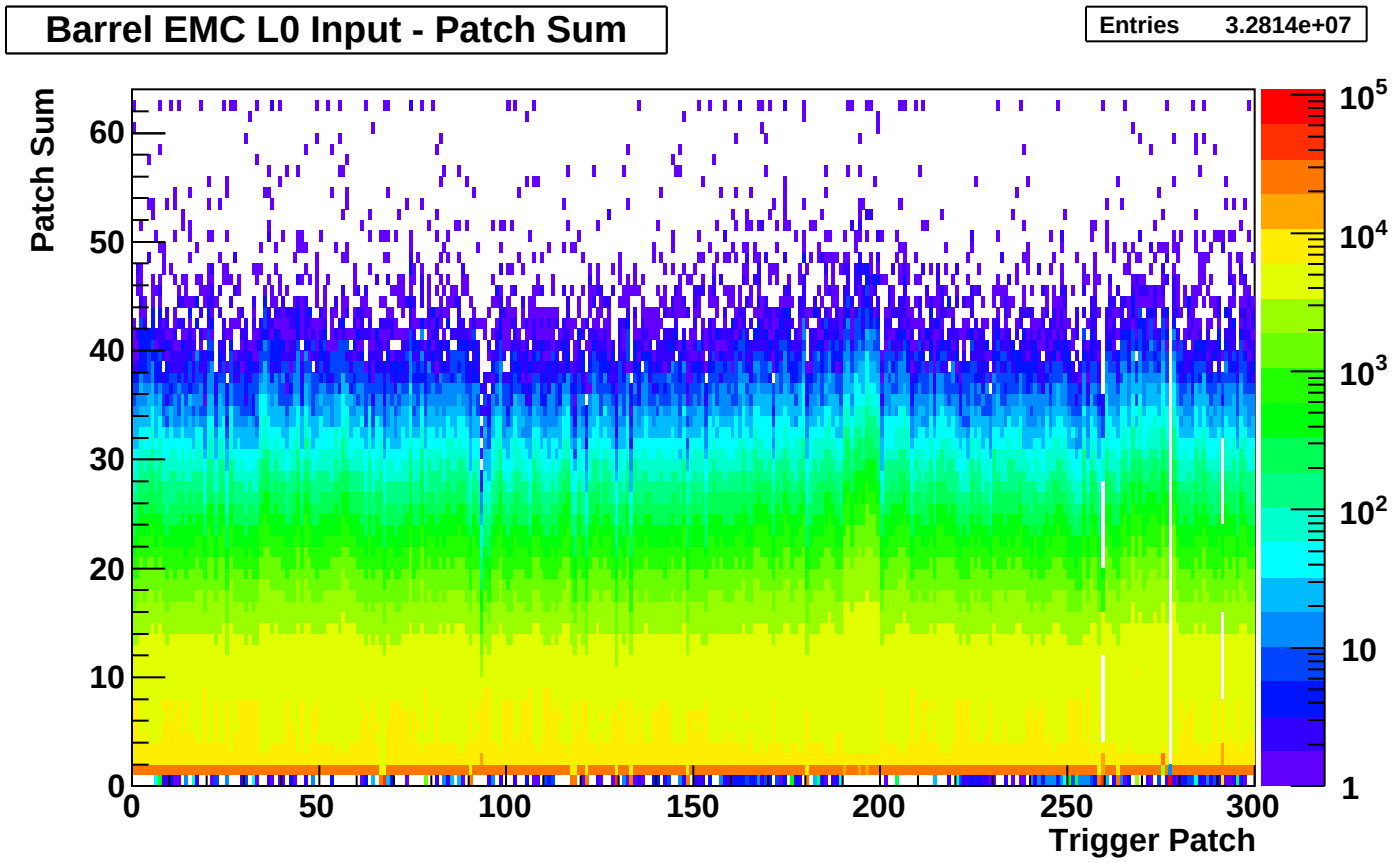

Last DSM Ch3 Input
Entries 43118
LD301 Ch3 - Simulated
1
0
-1
-2
18948 24170
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

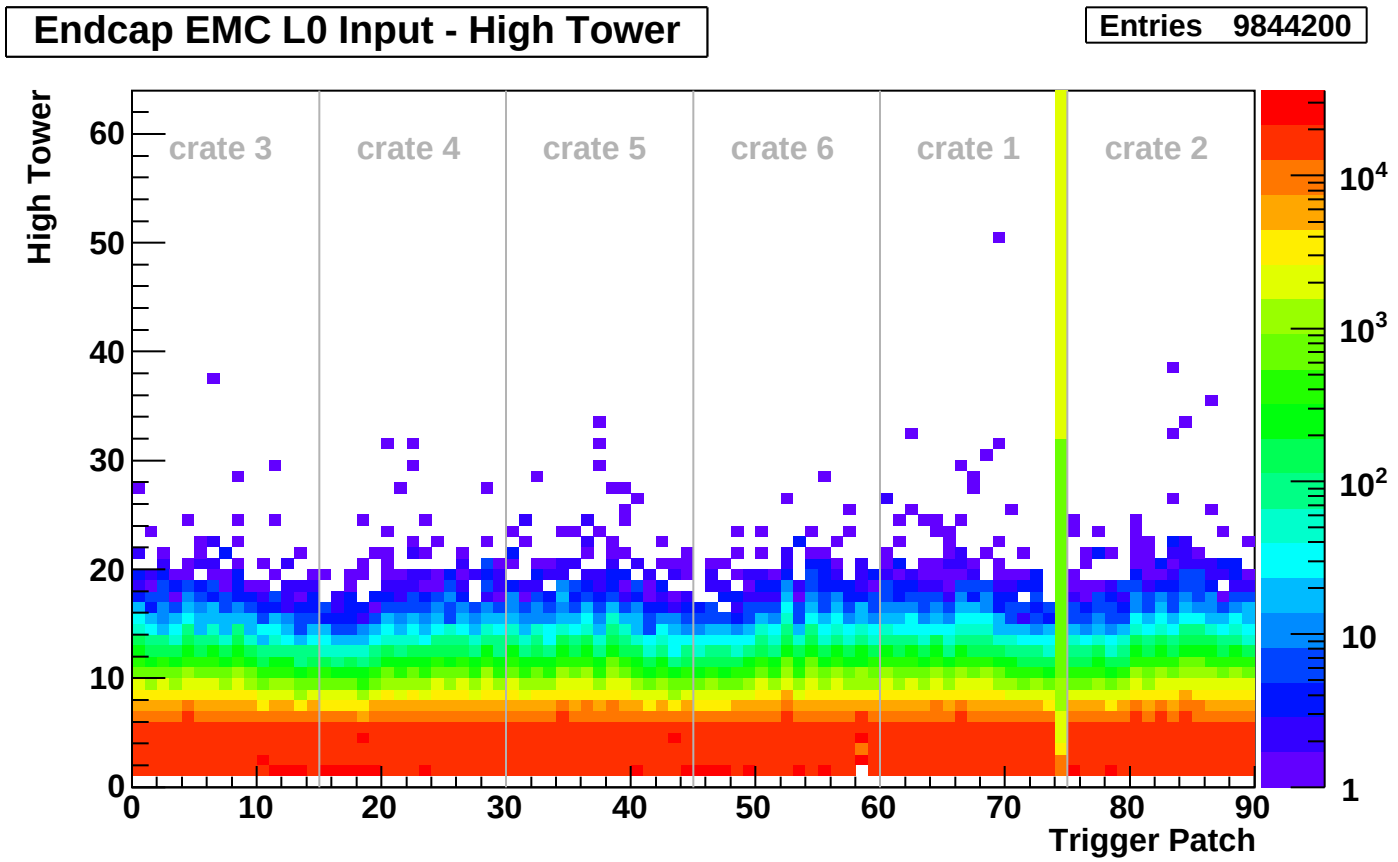

TCU bits
Entries 1750080
TCU bits
1
0
109380
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

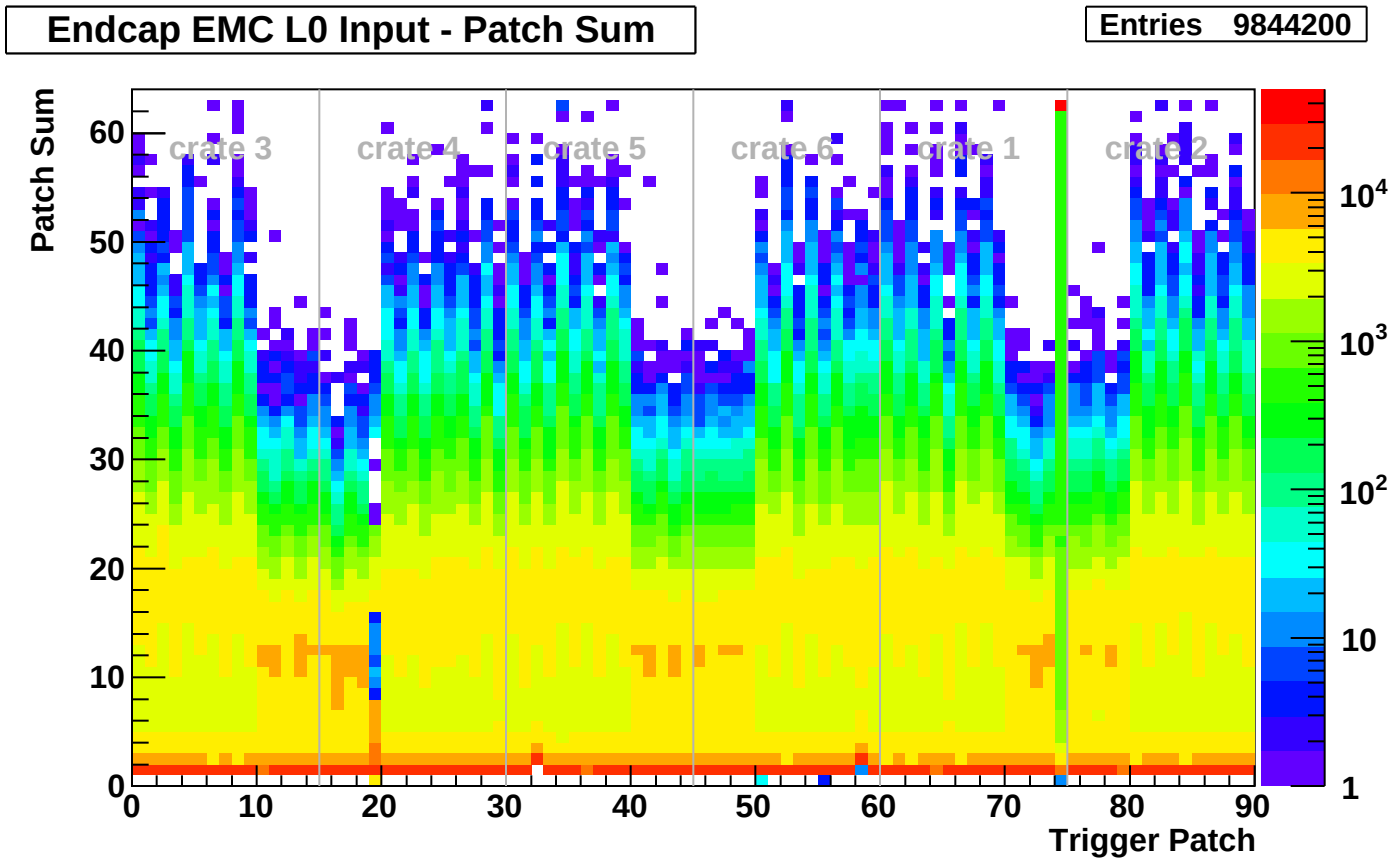

TCU bits
Entries 326958
TCU bits - Simulated
1
0
-1
-2
34506 7496 103767 69052 2757 109380
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

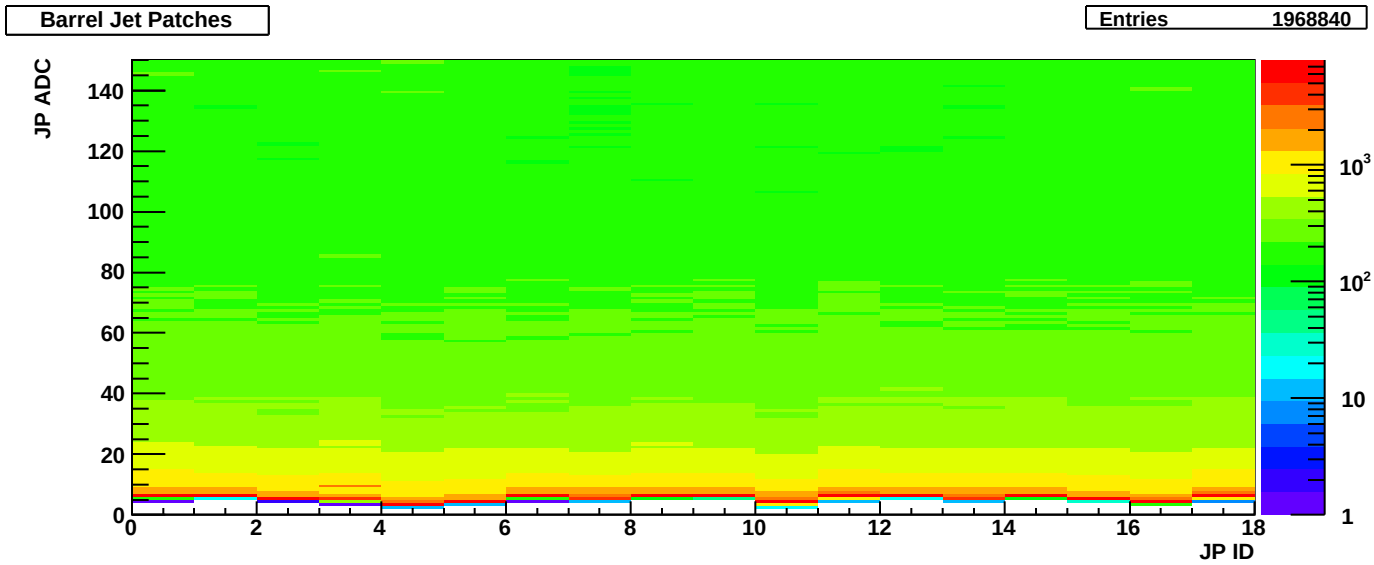

BunchId7Bit (BHT3)
Entries 739
10
1
0 20 40 60 80 100 120

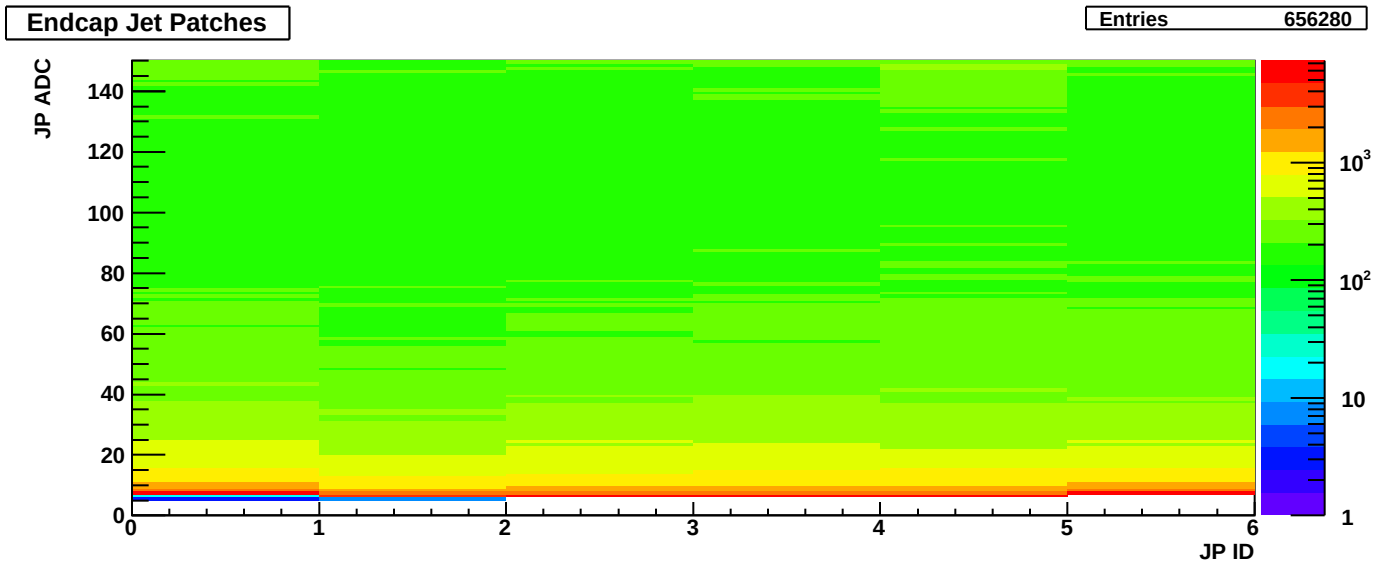

Barrel EMC L0 Input - High Tower
Entries 3.2814e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

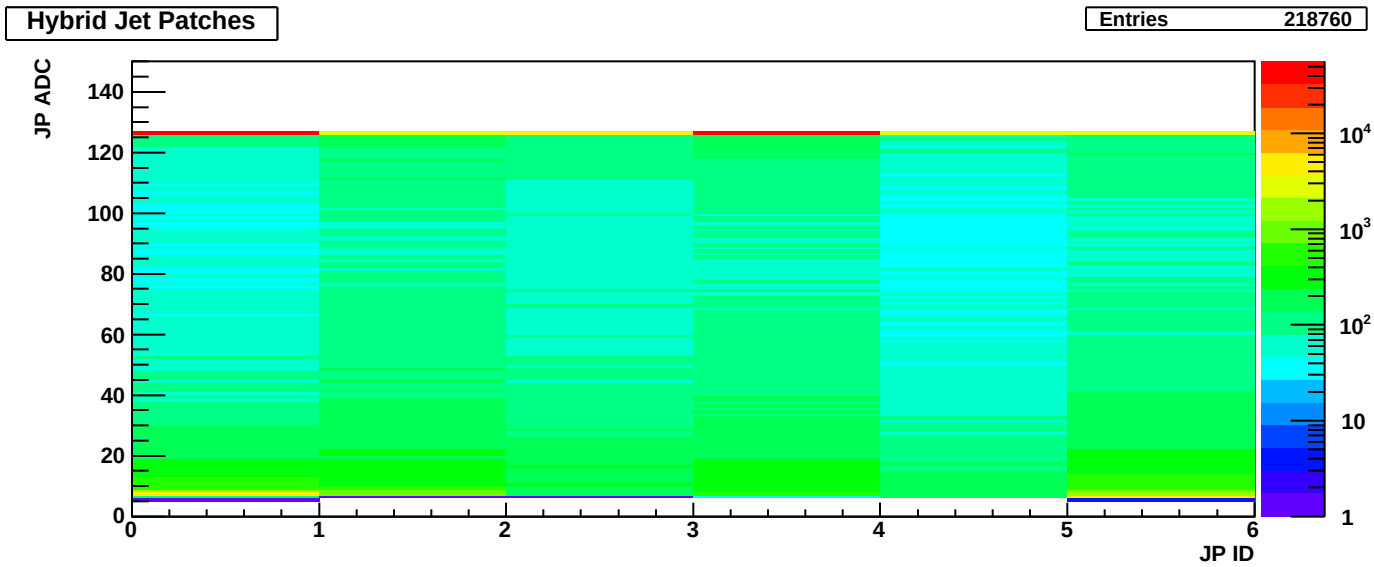

Barrel EMC L0 Input - Patch Sum
Entries 3.2814e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

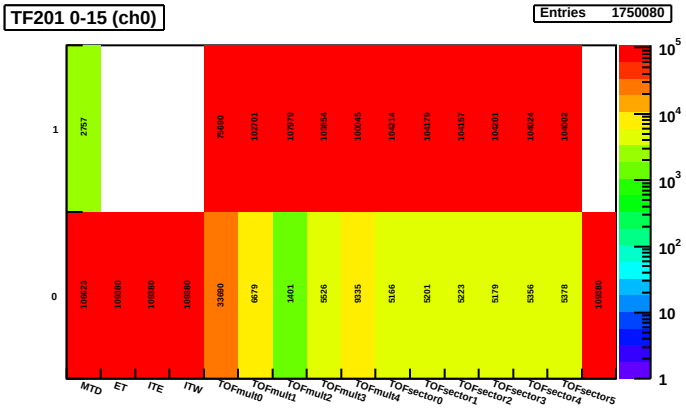

Endcap EMC L0 Input - High Tower
Entries 9844200
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

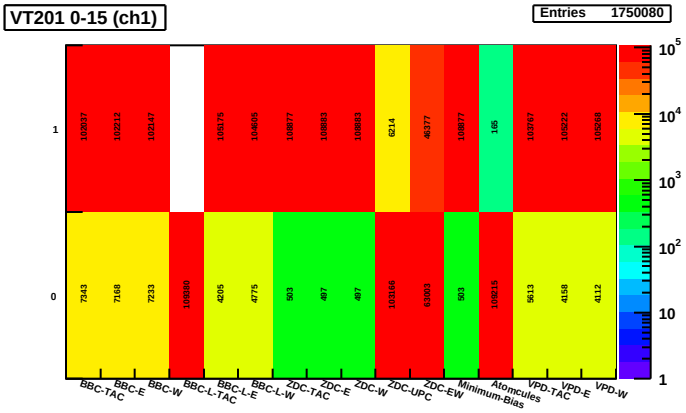

Endcap EMC L0 Input - Patch Sum
Entries 9844200
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

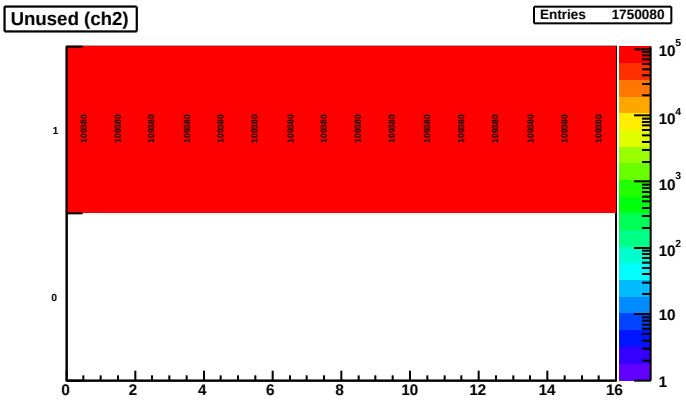

Barrel Jet Patches
Entries 1968840
JP ADC
JP ID

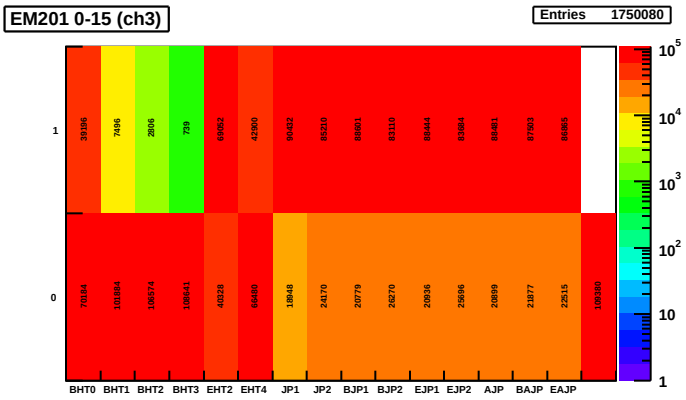

Endcap Jet Patches
Entries 656280
JP ADC
JP ID

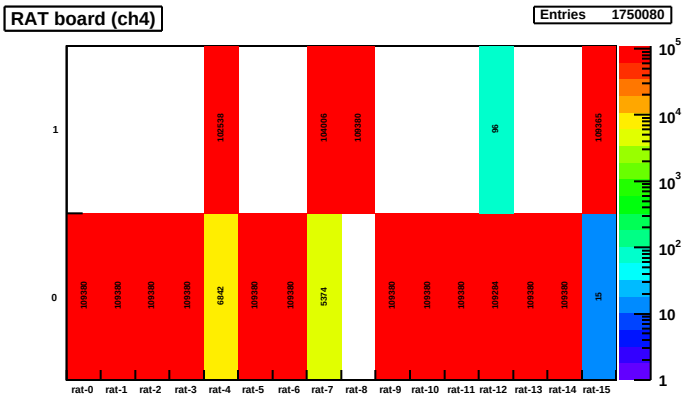

Hybrid Jet Patches
Entries 218760
JP ADC
JP ID

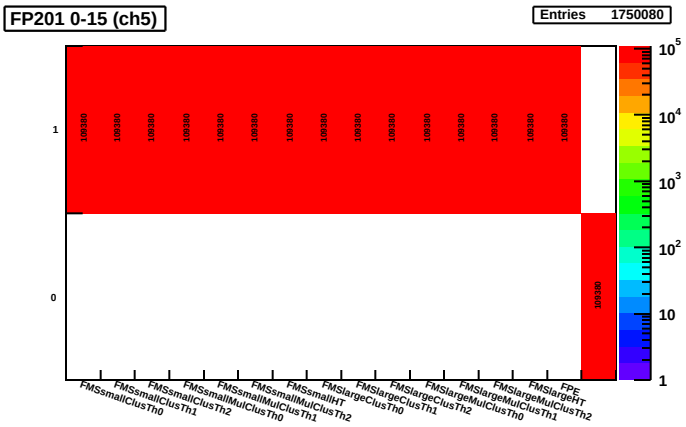

TF201 0-15 (ch0)
Entries 1750080
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

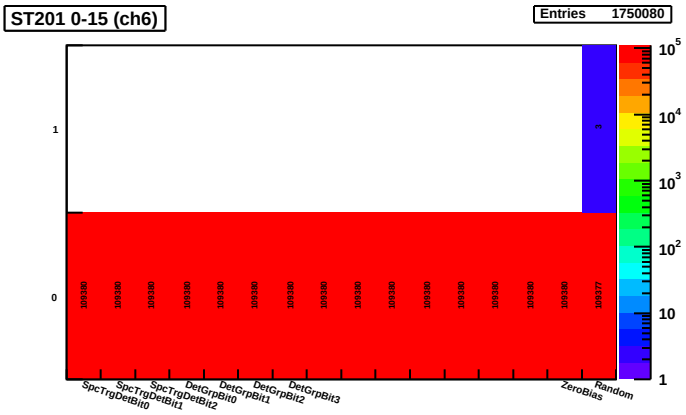

VT201 0-15 (ch1)
Entries 1750080
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

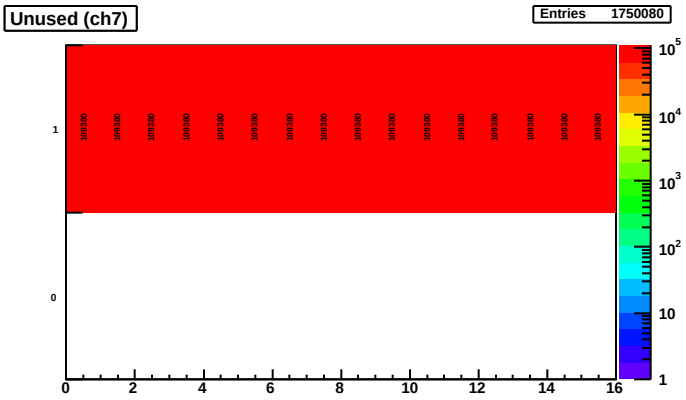

Unused (ch2)
Entries 1750080

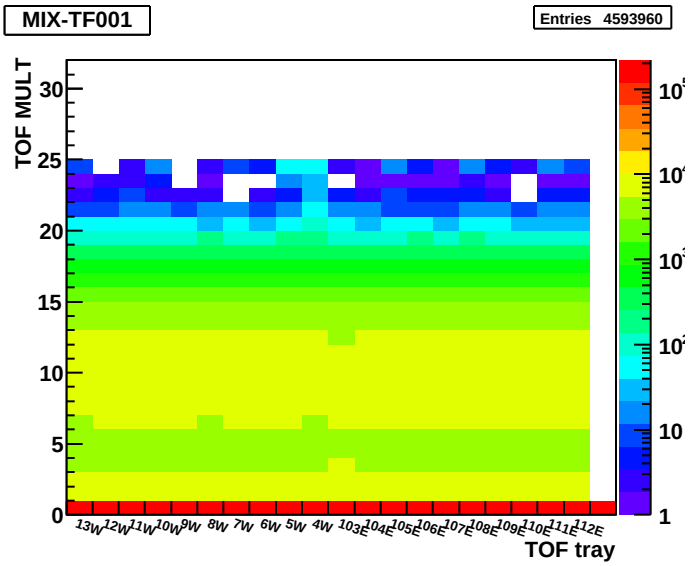

EM201 0-15 (ch3)
Entries 1750080
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP

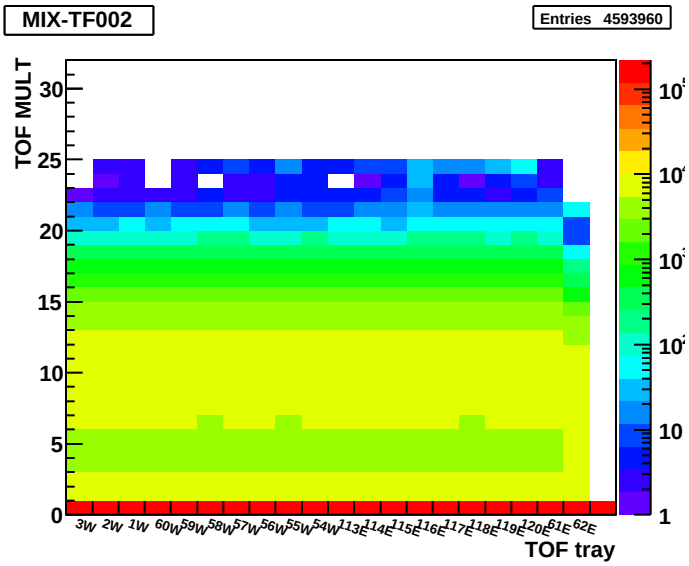

RAT board (ch4)
Entries 1750080
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

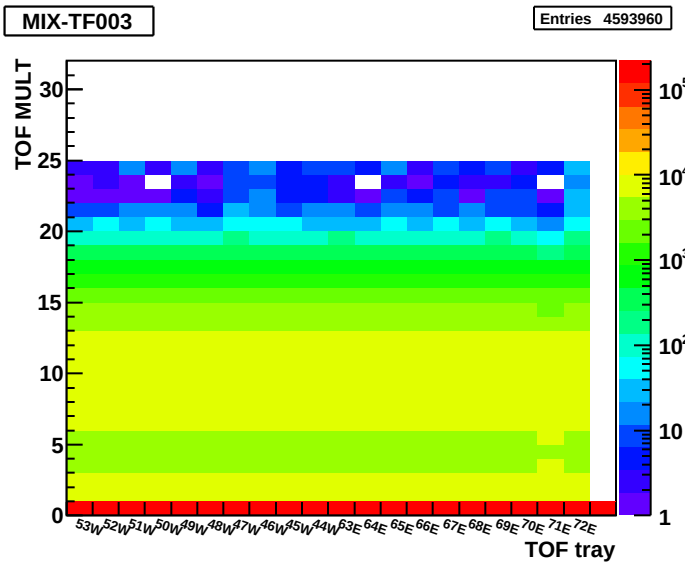

FP201 0-15 (ch5)
Entries 1750080
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

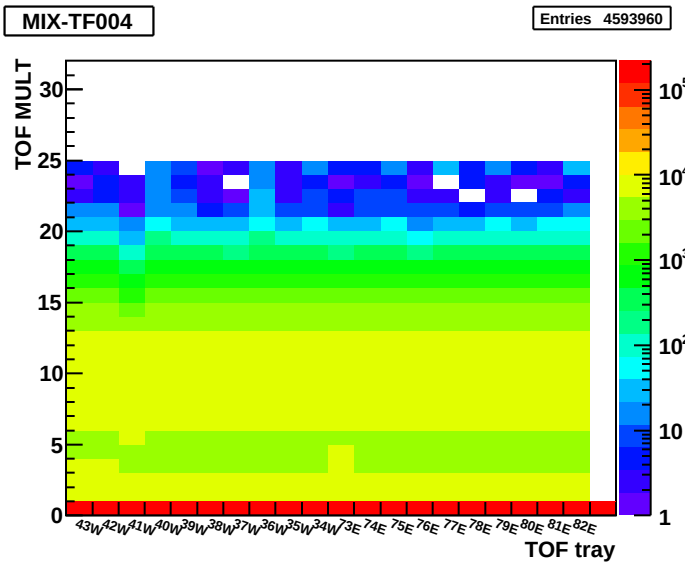

ST201 0-15 (ch6)
Entries 1750080
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

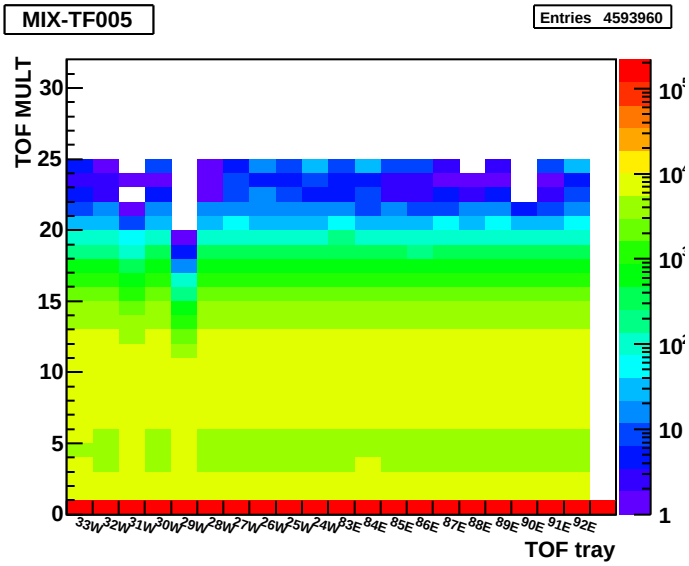

Unused (ch7)
Entries 1750080

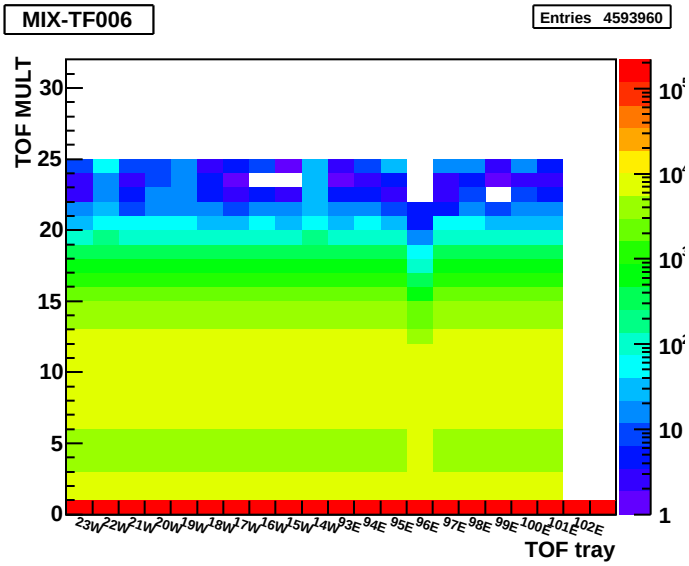

MIX-TF001
Entries 4593960
TOF MULT
TOF tray

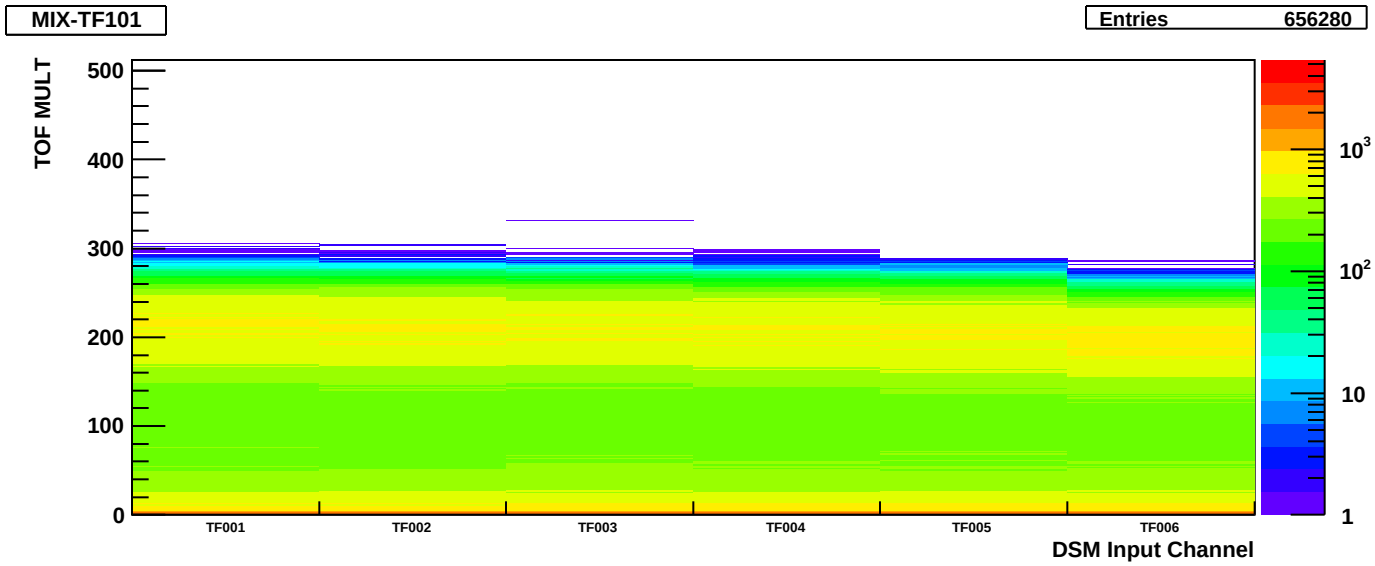

MIX-TF002
Entries 4593960
TOF MULT
TOF tray

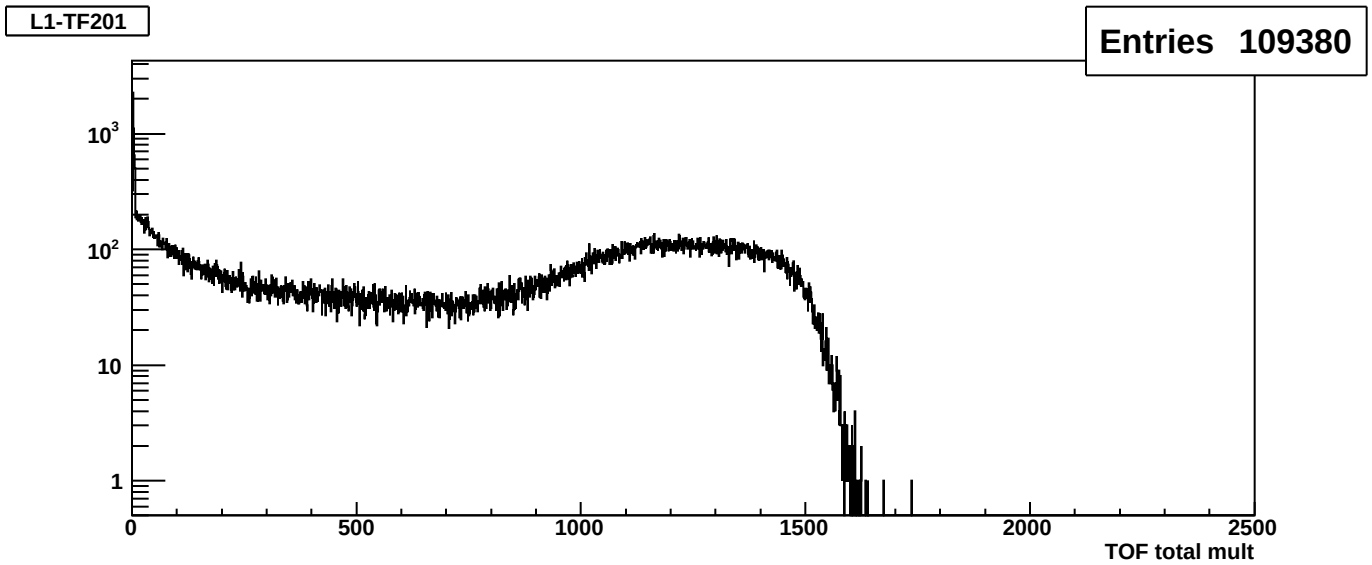

MIX-TF003
Entries 4593960
TOF MULT
TOF tray

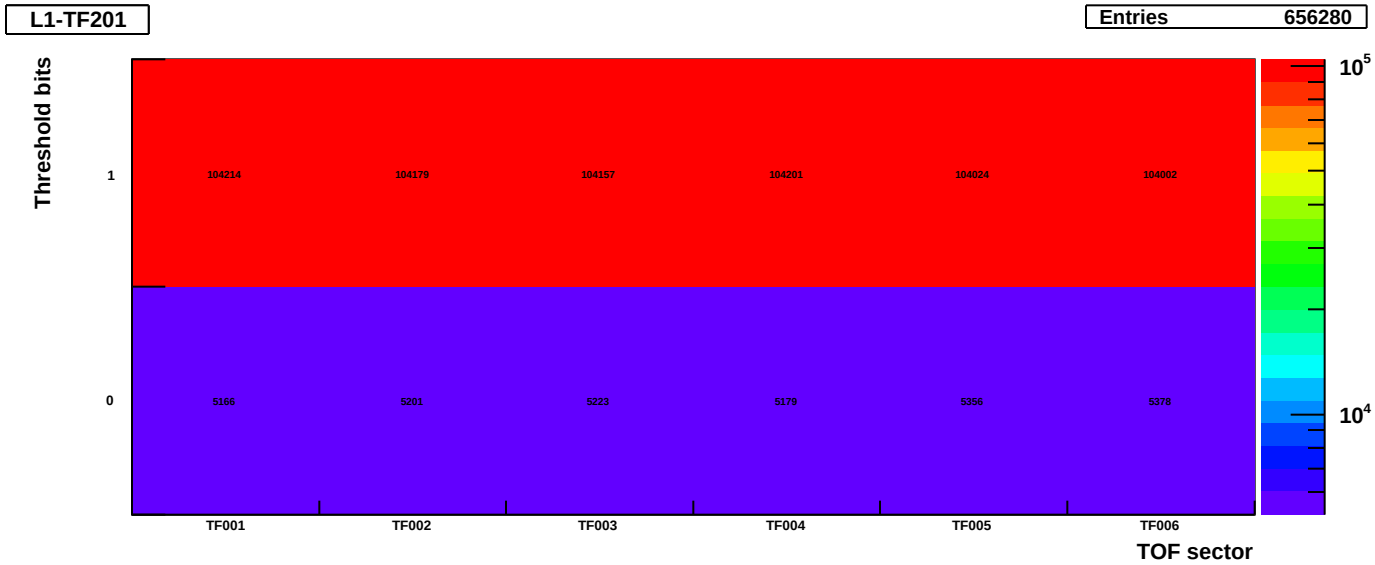

MIX-TF004
Entries 4593960
TOF MULT
TOF tray

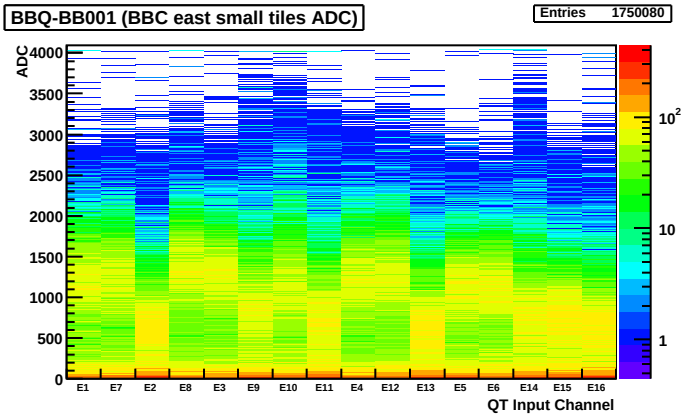

MIX-TF005
Entries 4593960
TOF MULT
TOF tray

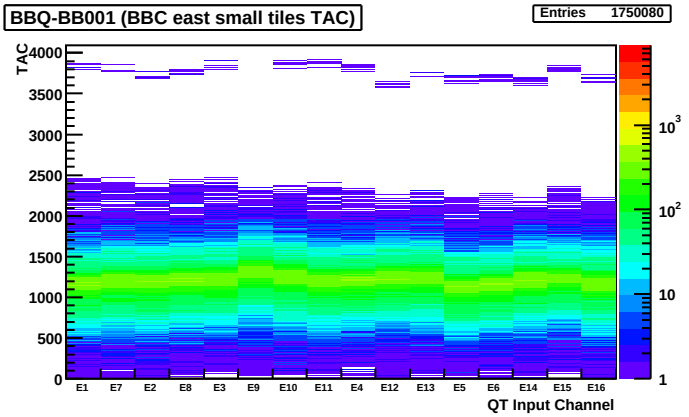

MIX-TF006
Entries 4593960
TOF MULT
TOF tray

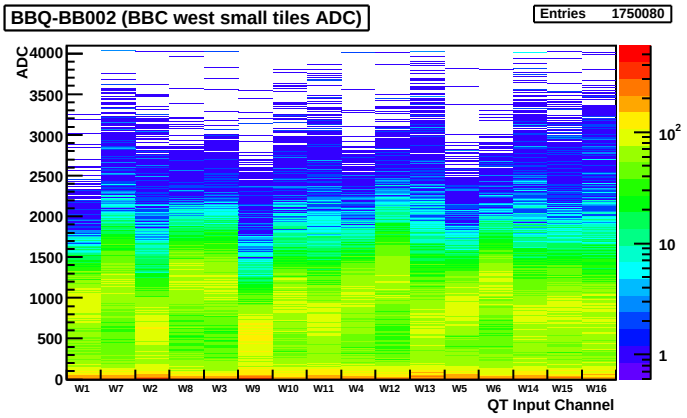

MIX-TF101
Entries 656280
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

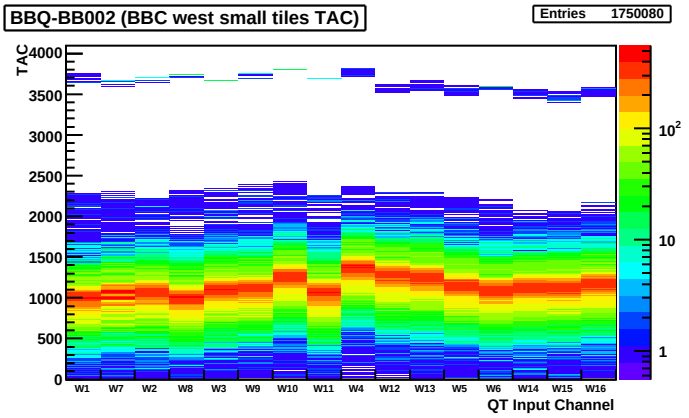

L1-TF201
Entries 109380
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

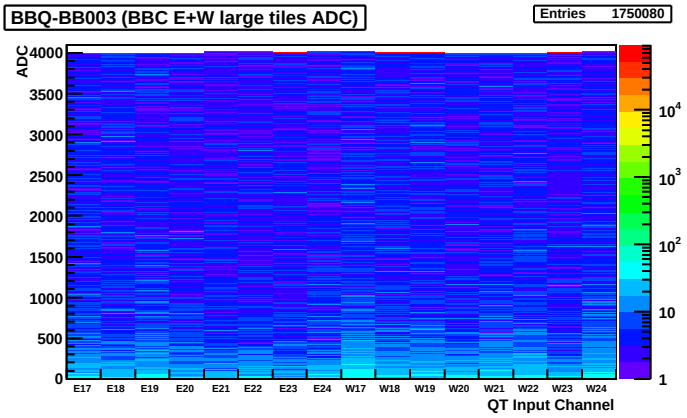

L1-TF201
Entries 656280
Threshold bits
1
0
104214
104179
104157
104201
104024
104002
5166
5201
5223
5179
5356
5378
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

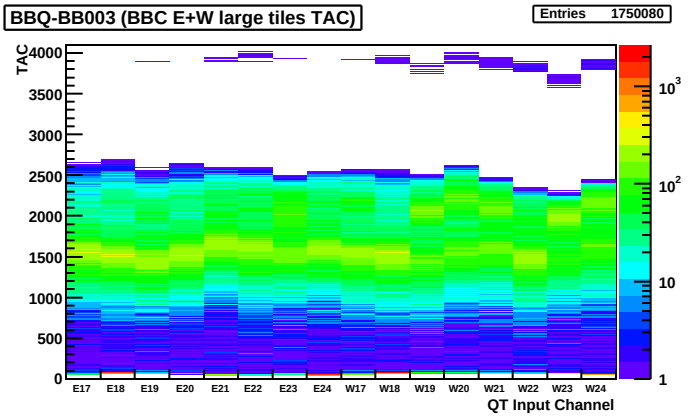

BBQ-BB001 (BBC east small tiles ADC)
Entries 1750080
ADC
QT Input Channel

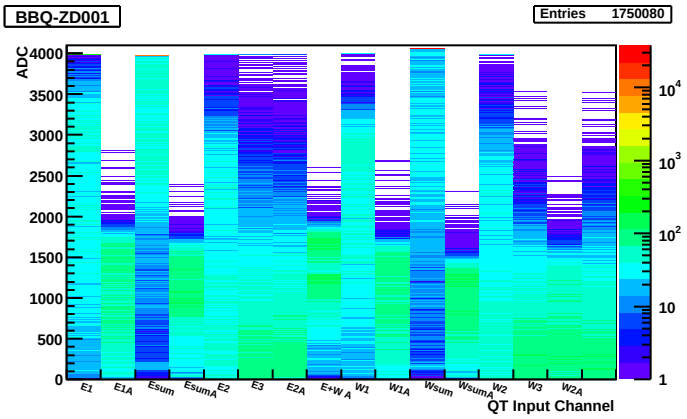

BBQ-BB001 (BBC east small tiles TAC)
Entries 1750080
TAC
QT Input Channel

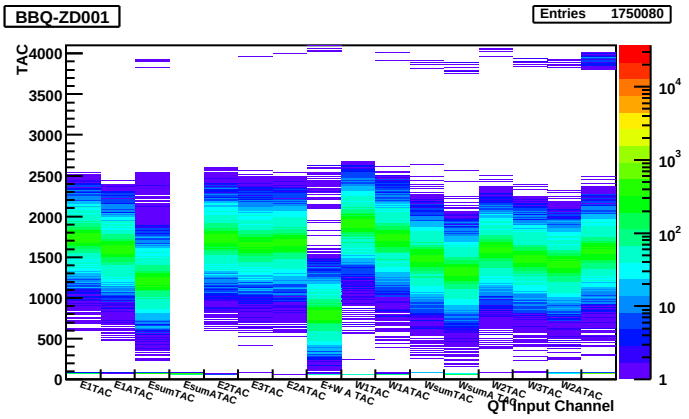

BBQ-BB002 (BBC west small tiles ADC)
Entries 1750080
ADC
QT Input Channel

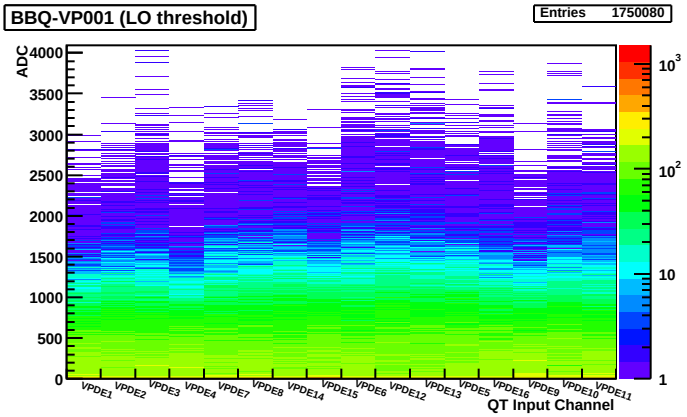

BBQ-BB002 (BBC west small tiles TAC)
Entries 1750080
TAC
QT Input Channel

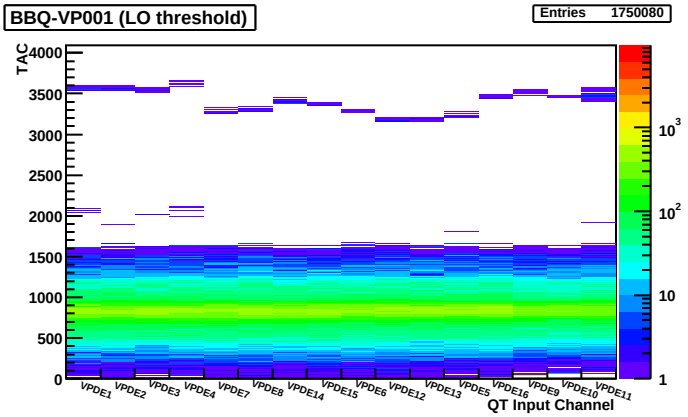

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1750080
ADC
QT Input Channel

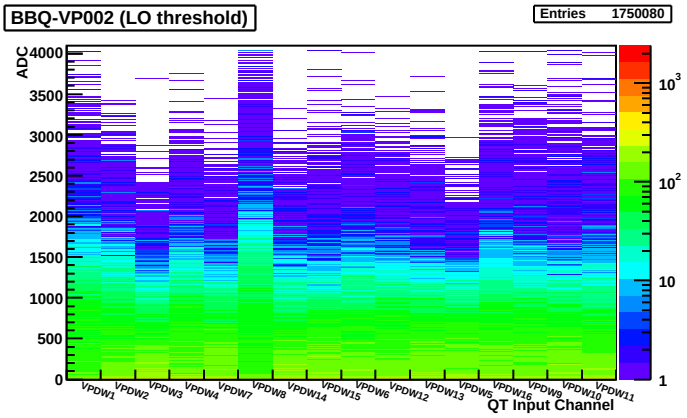

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1750080
TAC
QT Input Channel

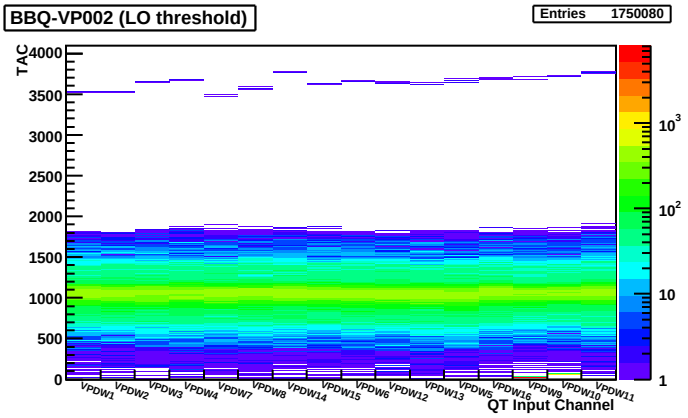

BBQ-ZD001
Entries 1750080
ADC
QT Input Channel

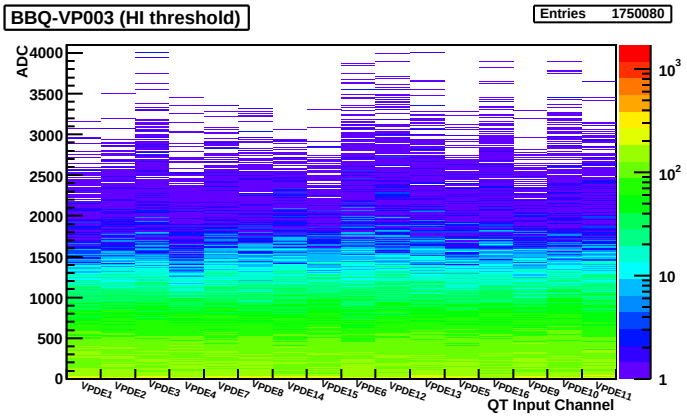

BBQ-ZD001
Entries 1750080
TAC
QT Input Channel

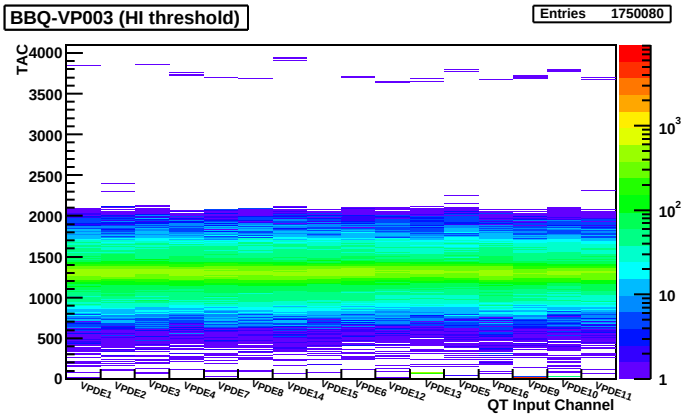

BBQ-VP001 (LO threshold)
Entries 1750080
ADC
QT Input Channel

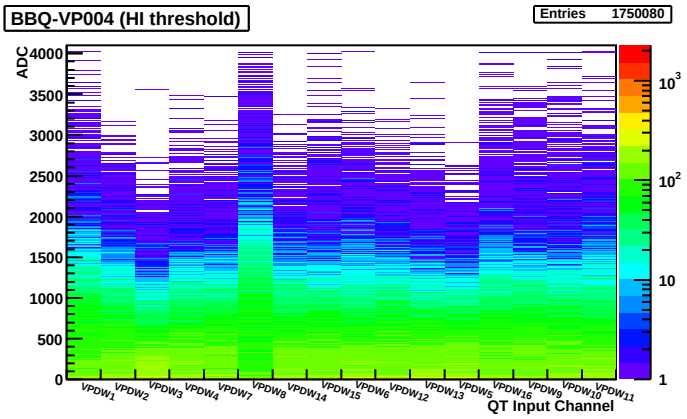

BBQ-VP001 (LO threshold)
Entries 1750080
TAC
QT Input Channel

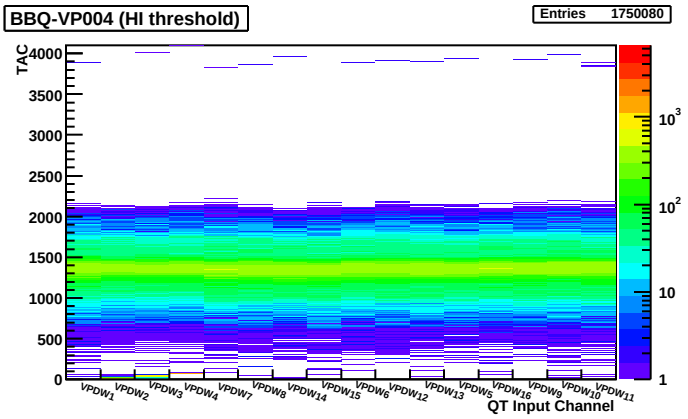

BBQ-VP002 (LO threshold)
Entries 1750080
ADC
QT Input Channel


BBQ-VP002 (LO threshold)
Entries 1750080
TAC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 1750080
ADC
QT Input Channel


BBQ-VP003 (HI threshold)
Entries 1750080
TAC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 1750080
ADC
QT Input Channel


BBQ-VP004 (HI threshold)
Entries 1750080
TAC
QT Input Channel