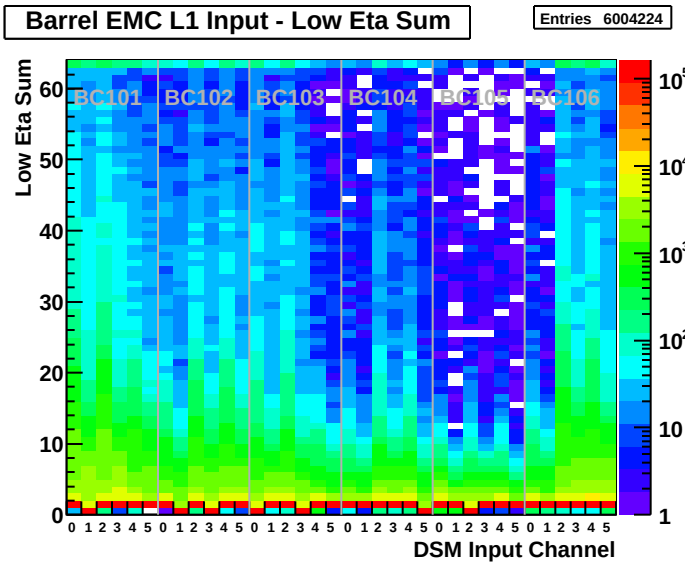
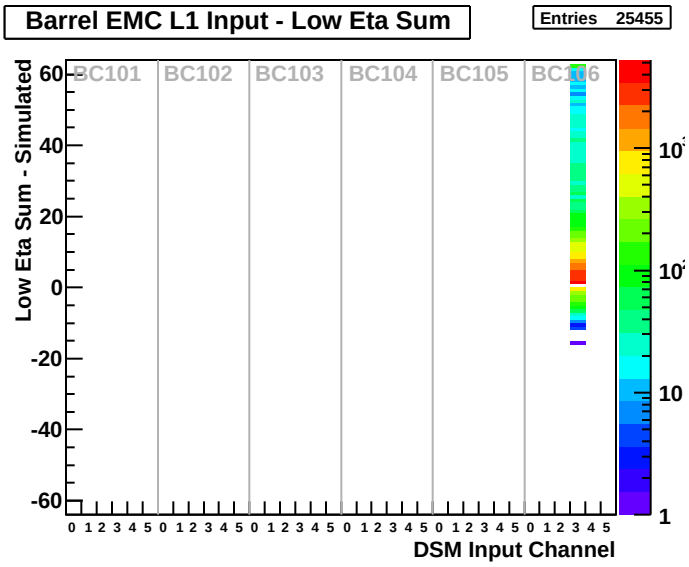
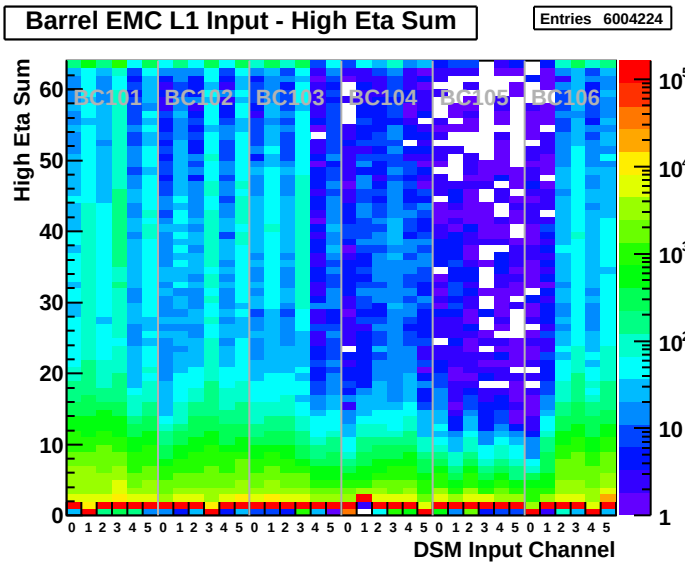
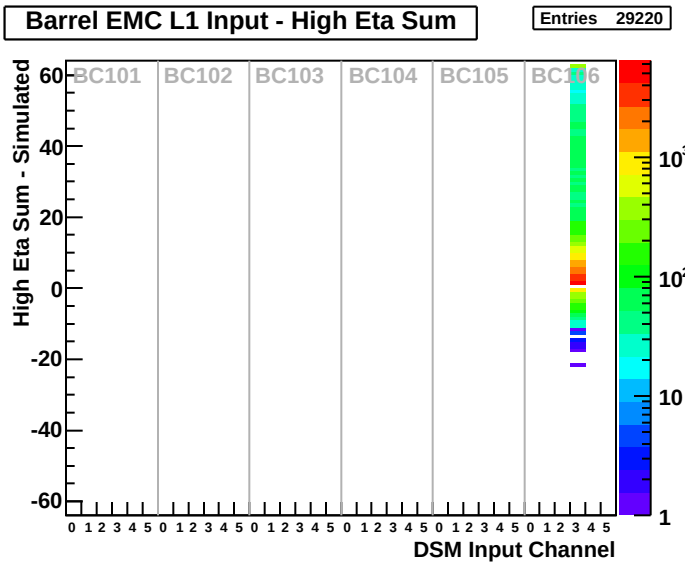
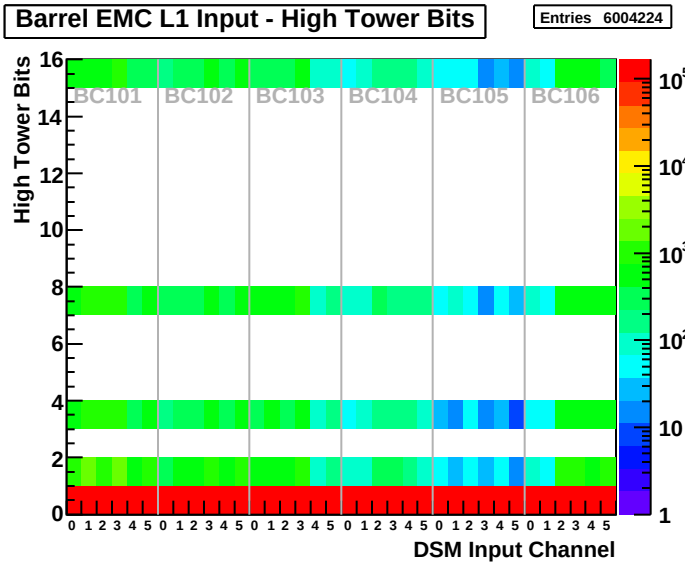
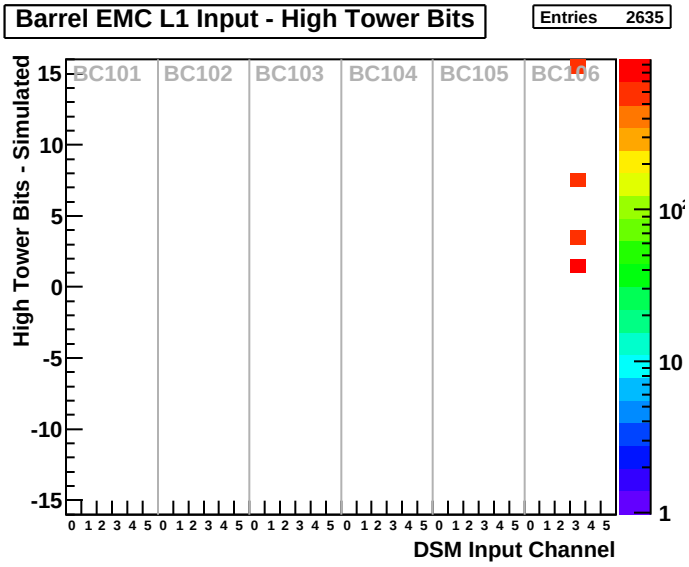

Barrel EMC L1 Input - Low Eta Sum
Entries 6004224
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

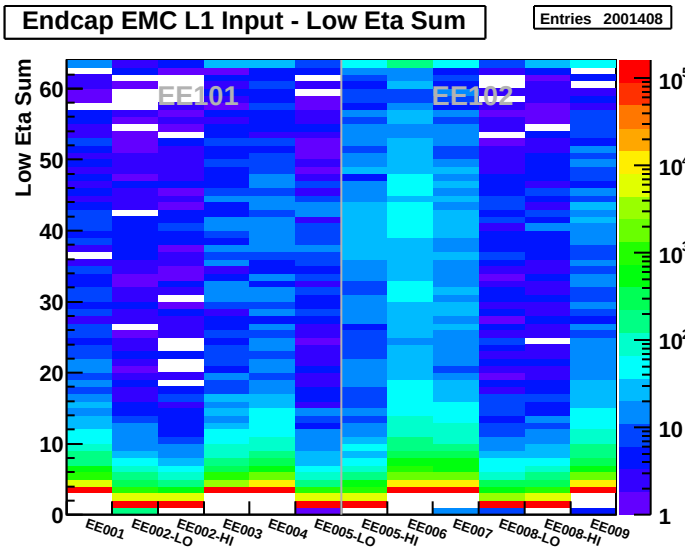

Barrel EMC L1 Input - Low Eta Sum
Entries 25455
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

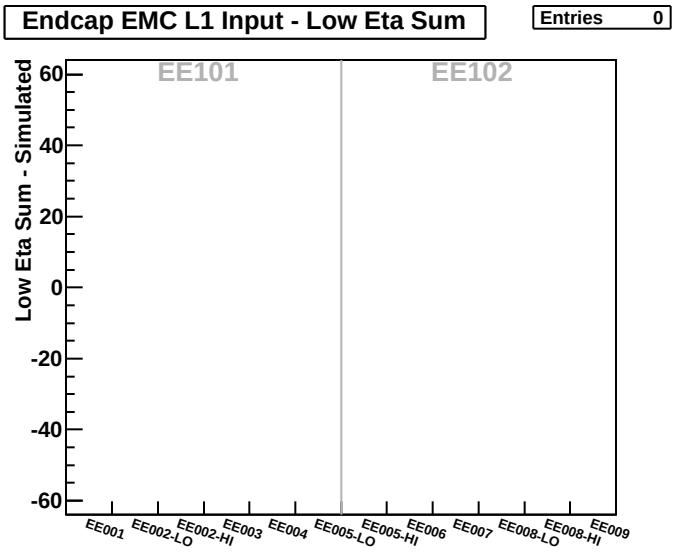

Barrel EMC L1 Input - High Eta Sum
Entries 6004224
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

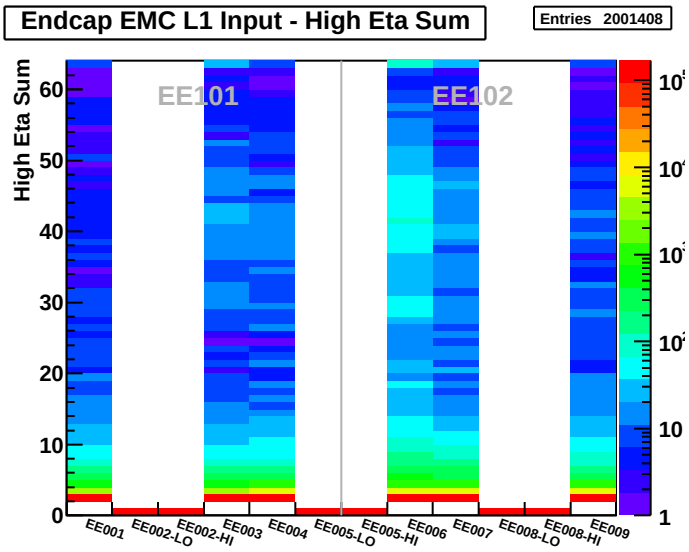

Barrel EMC L1 Input - High Eta Sum
Entries 29220
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

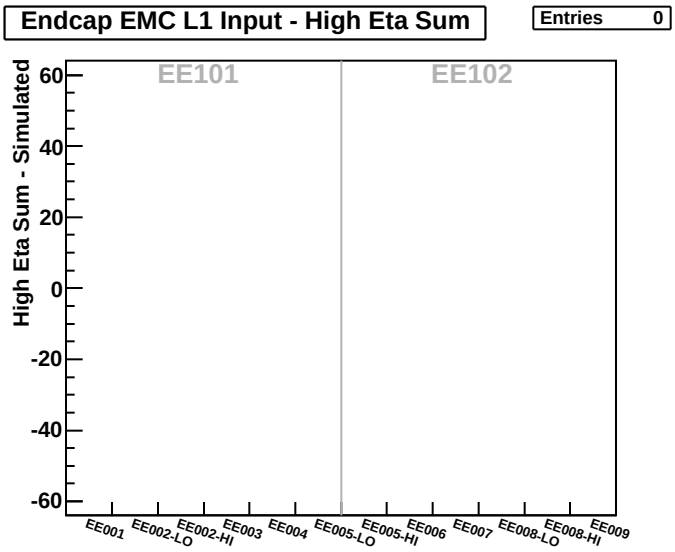

Barrel EMC L1 Input - High Tower Bits
Entries 6004224
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

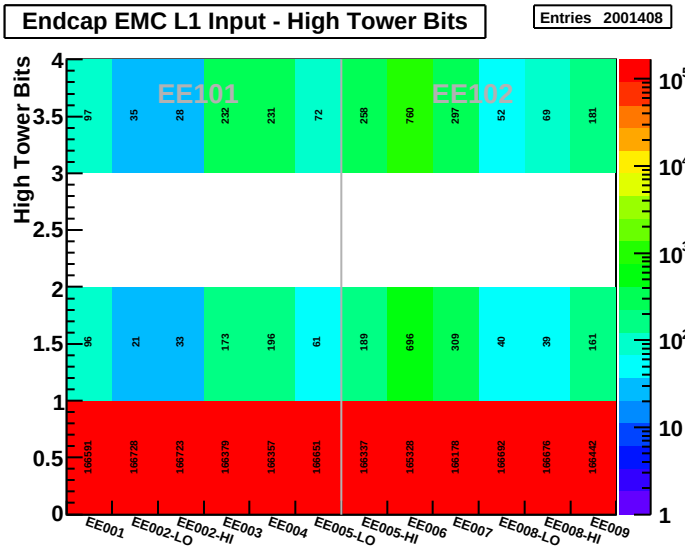

Barrel EMC L1 Input - High Tower Bits
Entries 2635
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

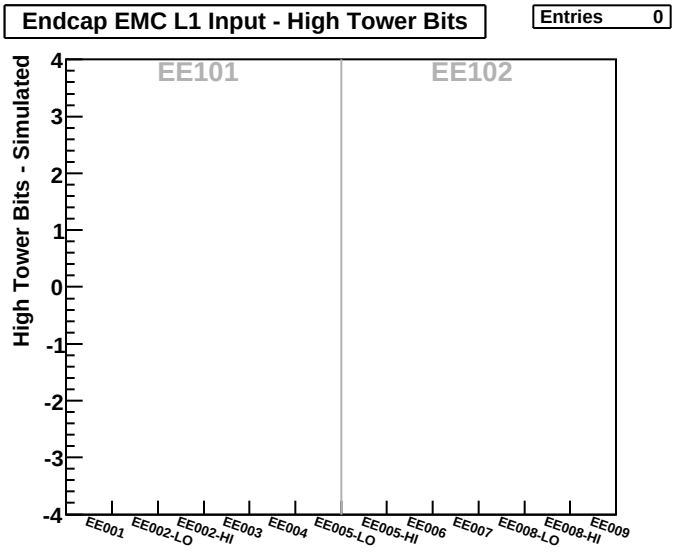

Endcap EMC L1 Input - Low Eta Sum
Entries 2001408
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

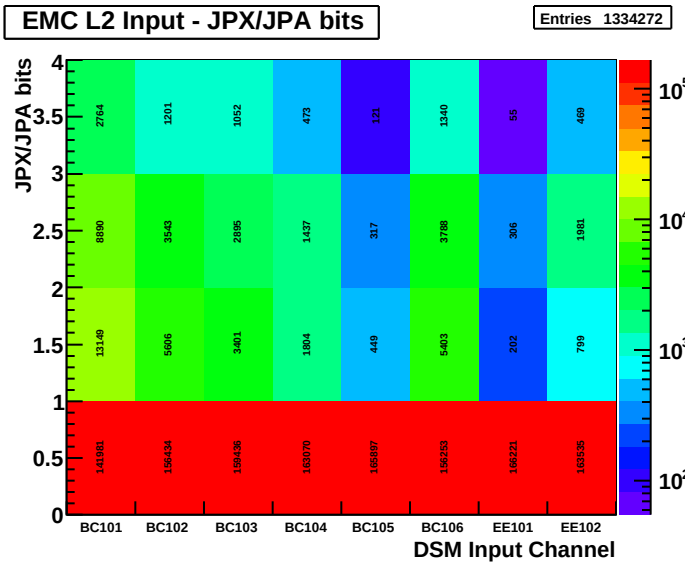

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

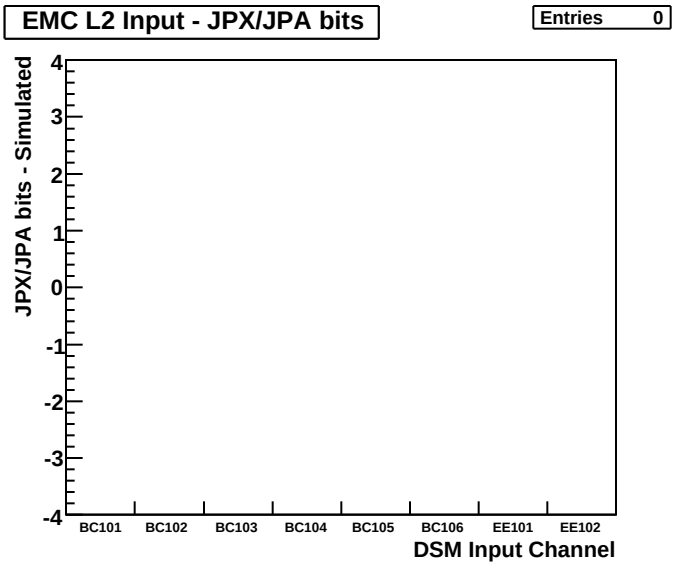

Endcap EMC L1 Input - High Eta Sum
Entries 2001408
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

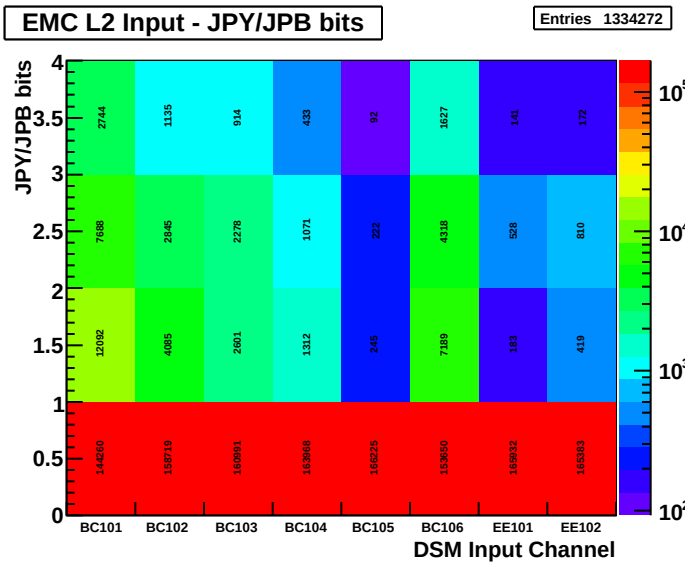

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

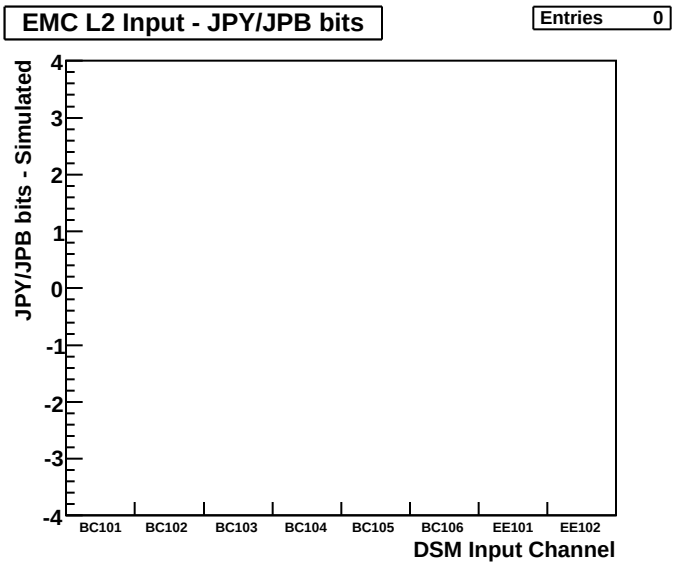

Endcap EMC L1 Input - High Tower Bits
Entries 2001408
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

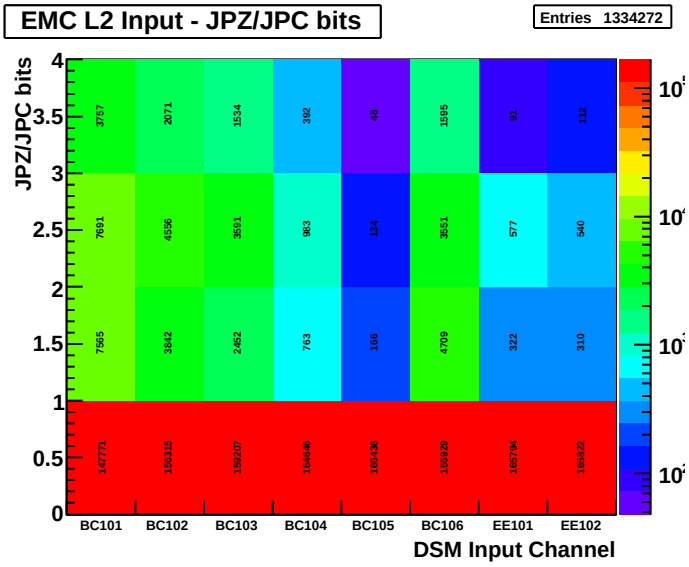

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

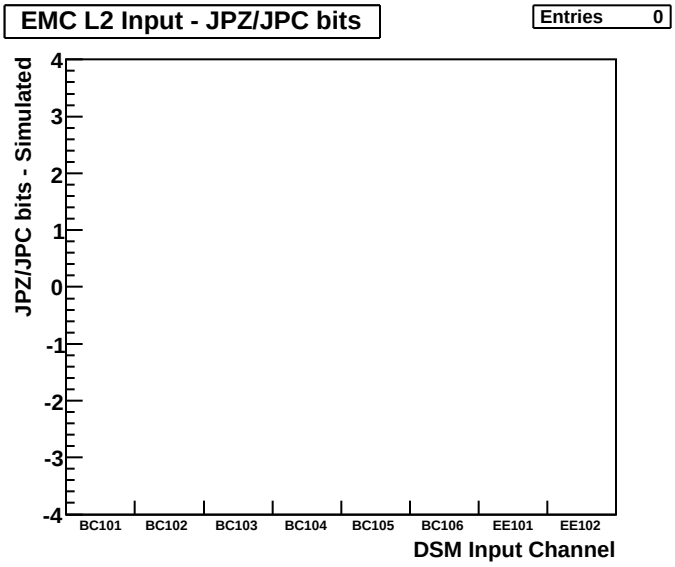

EMC L2 Input - JPX/JPA bits
Entries 1334272
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2764 1201 1052 473 121 1340 55 460
8890 3543 2895 1437 317 3788 306 1981
13149 5606 3401 1804 449 5403 202 799
141951 158434 159436 163070 165897 156253 166221 163535

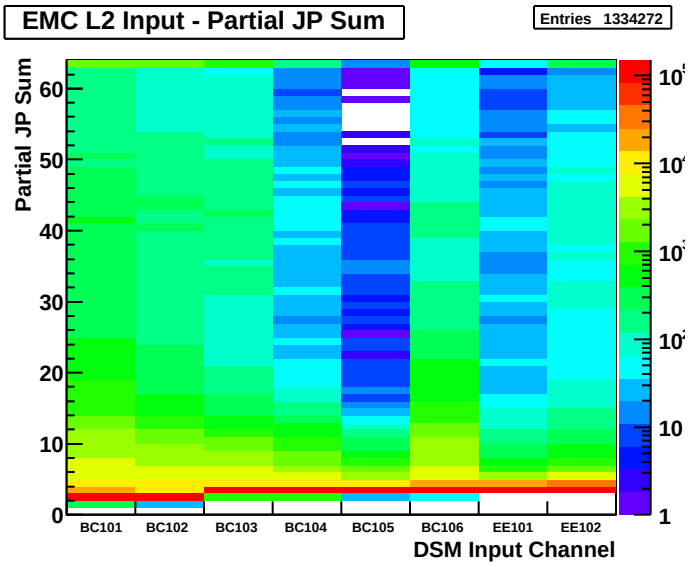

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

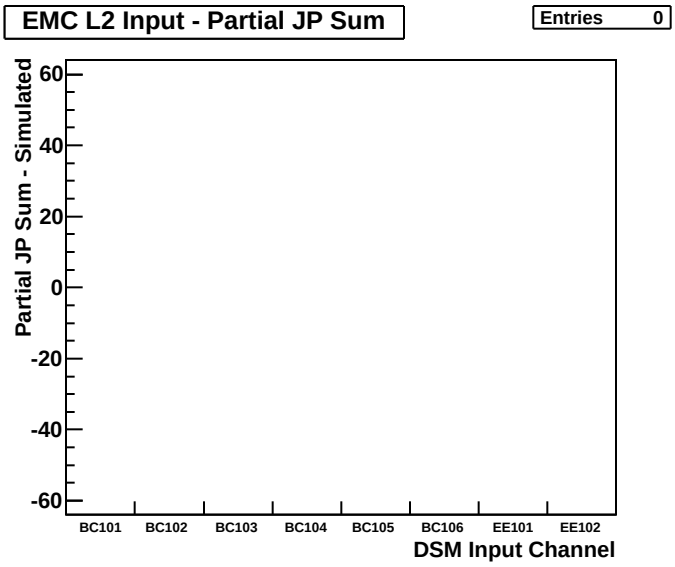

EMC L2 Input - JPY/JPB bits
Entries 1334272
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2744 1135 914 433 92 1627 141 172
7688 2845 2278 1071 222 4318 528 810
12092 4085 2601 1312 245 7189 183 419
144260 158719 160991 163968 166225 153650 165932 165383

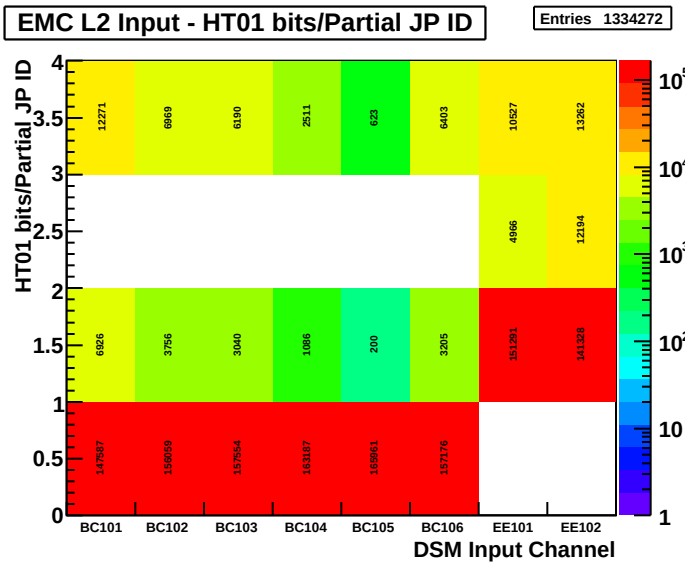

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

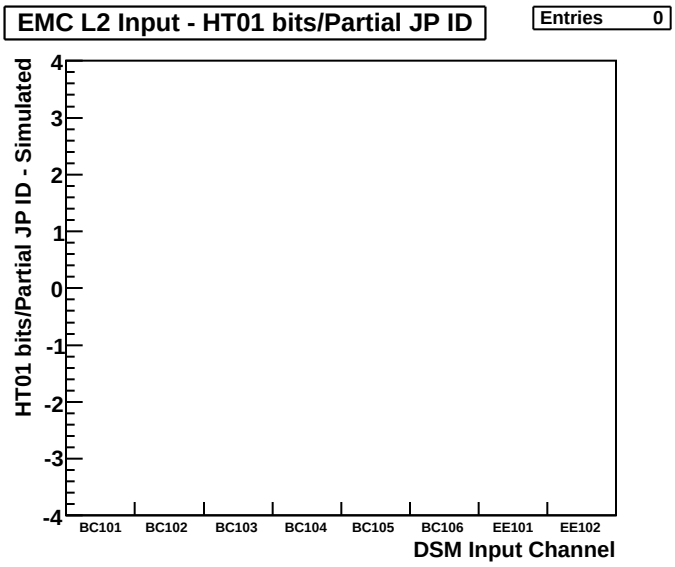

EMC L2 Input - JPZ/JPC bits
Entries 1334272
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3757 2071 1534 392 48 1595 91 112
7691 4556 3591 983 134 3551 577 540
7565 3842 2452 763 166 4709 322 310
147771 156315 159207 164646 166438 156929 165794 165822

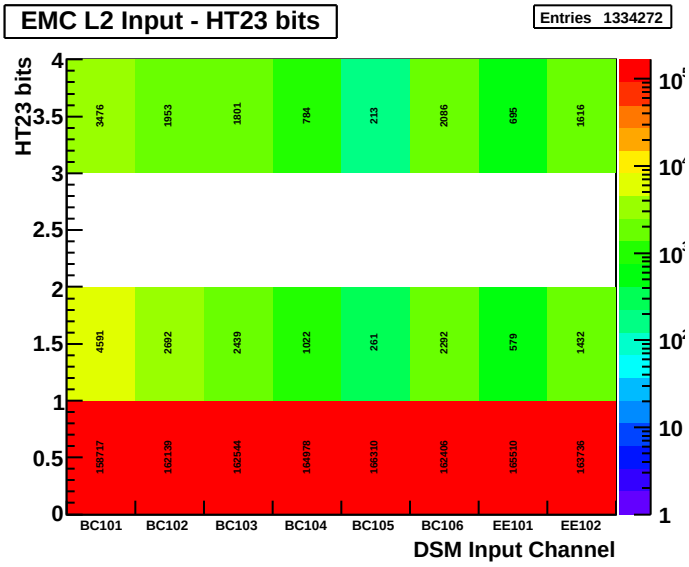

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

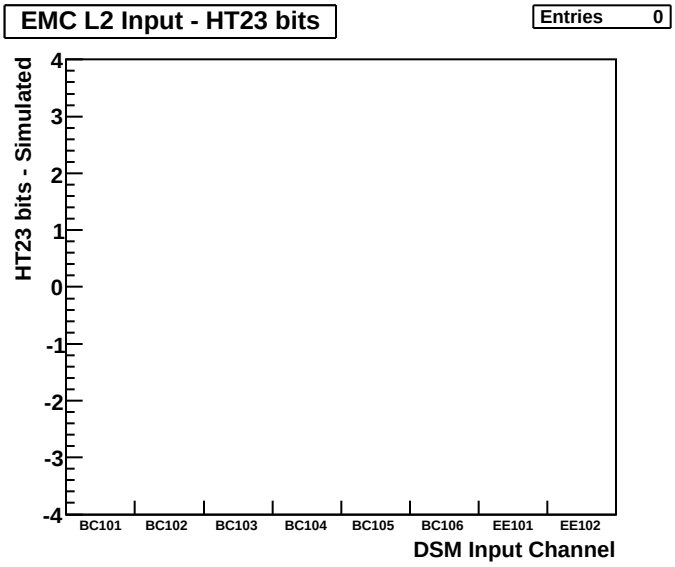

EMC L2 Input - Partial JP Sum
Entries 1334272
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

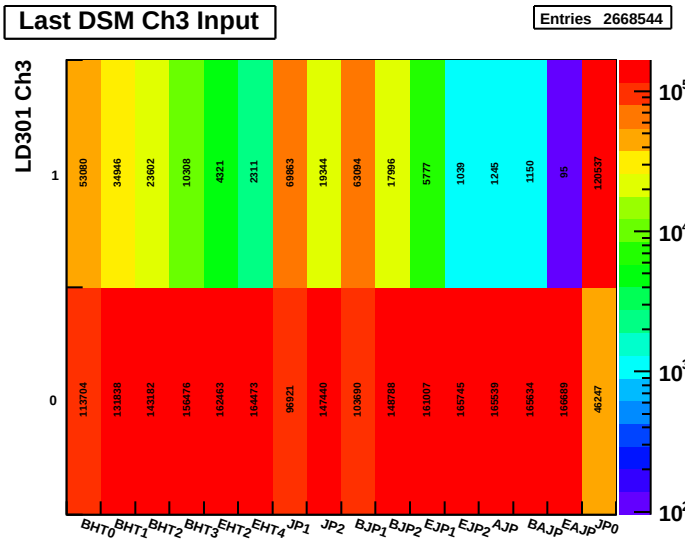

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

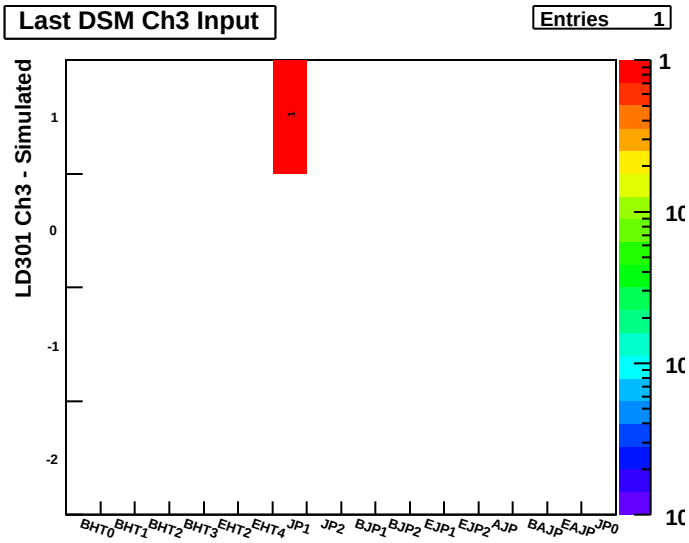

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1334272
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

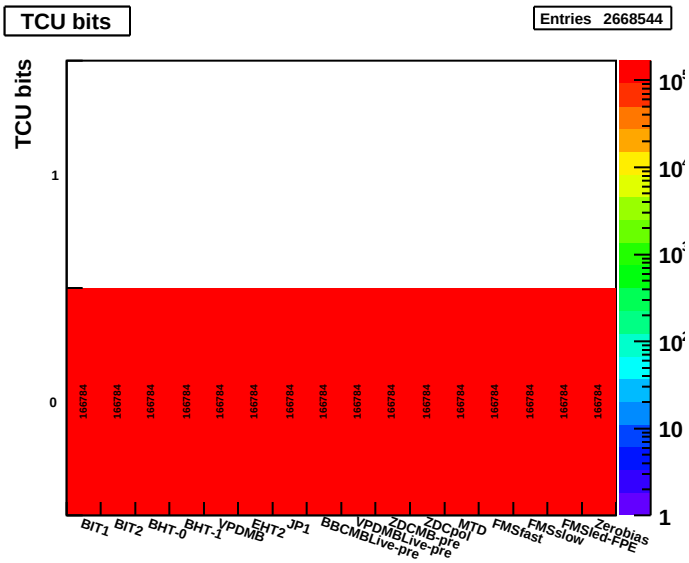

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

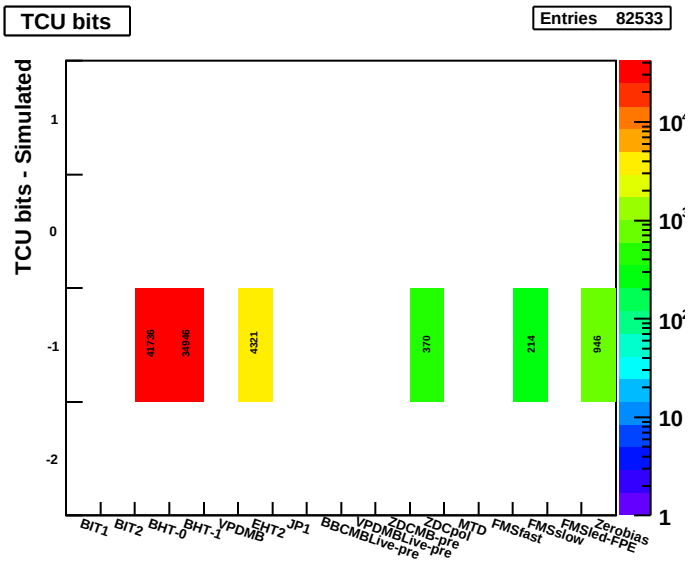

EMC L2 Input - HT23 bits
Entries 1334272
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

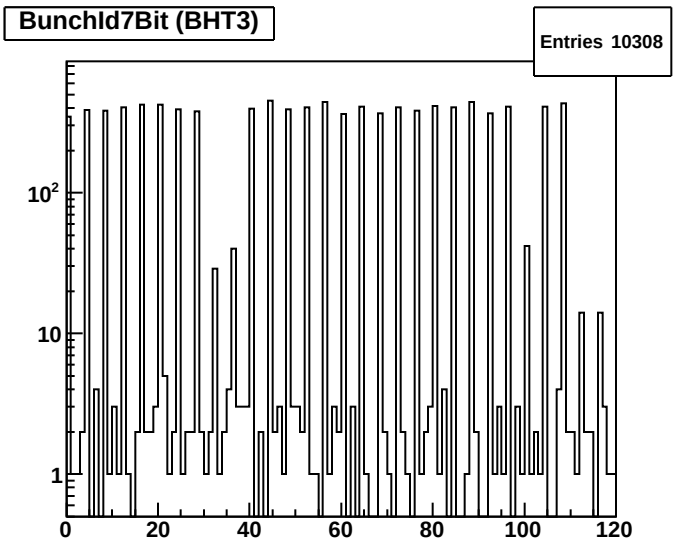

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

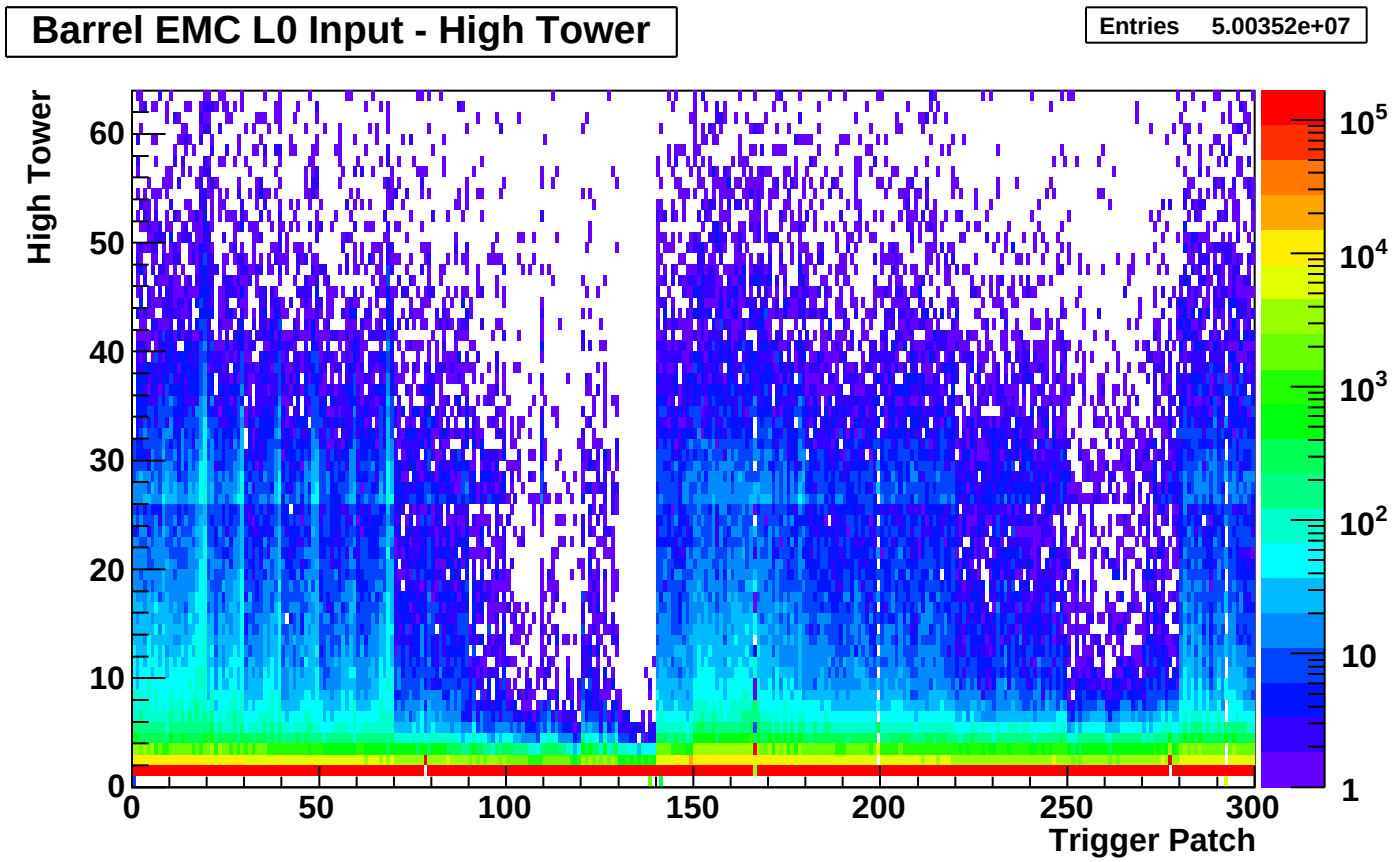

Last DSM Ch3 Input
Entries 2668544
LD301 Ch3
1
0
53080 34946 23602 10308 4321 2311 69863 19344 63094 17996 5777 1039 1245 1150 95 120537
113704 131838 143182 156476 162463 164473 96921 147440 103690 148788 161007 165745 165539 166534 166689 46247
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

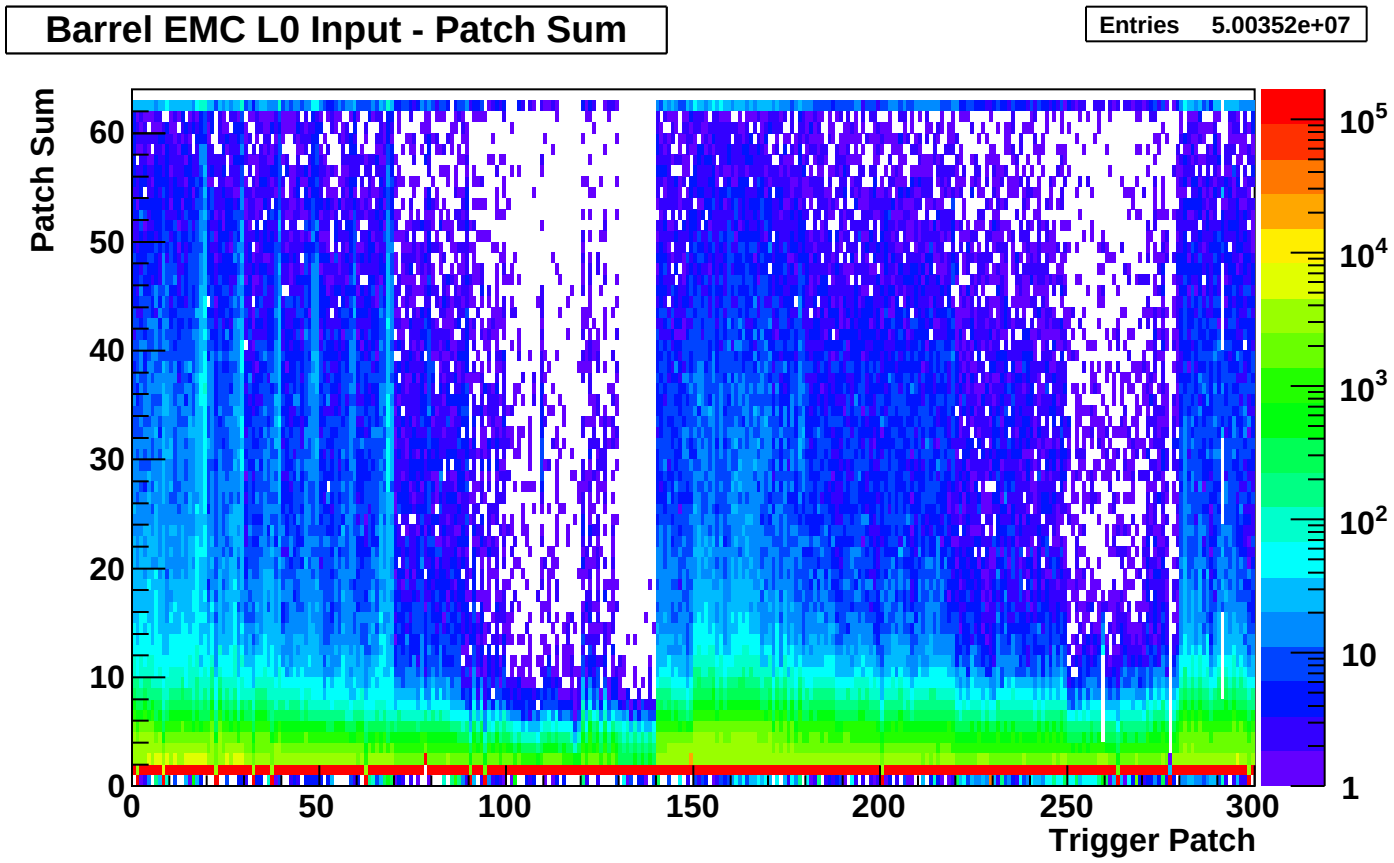

Last DSM Ch3 Input
Entries 1
LD301 Ch3 - Simulated
1
0
-1
-2
1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

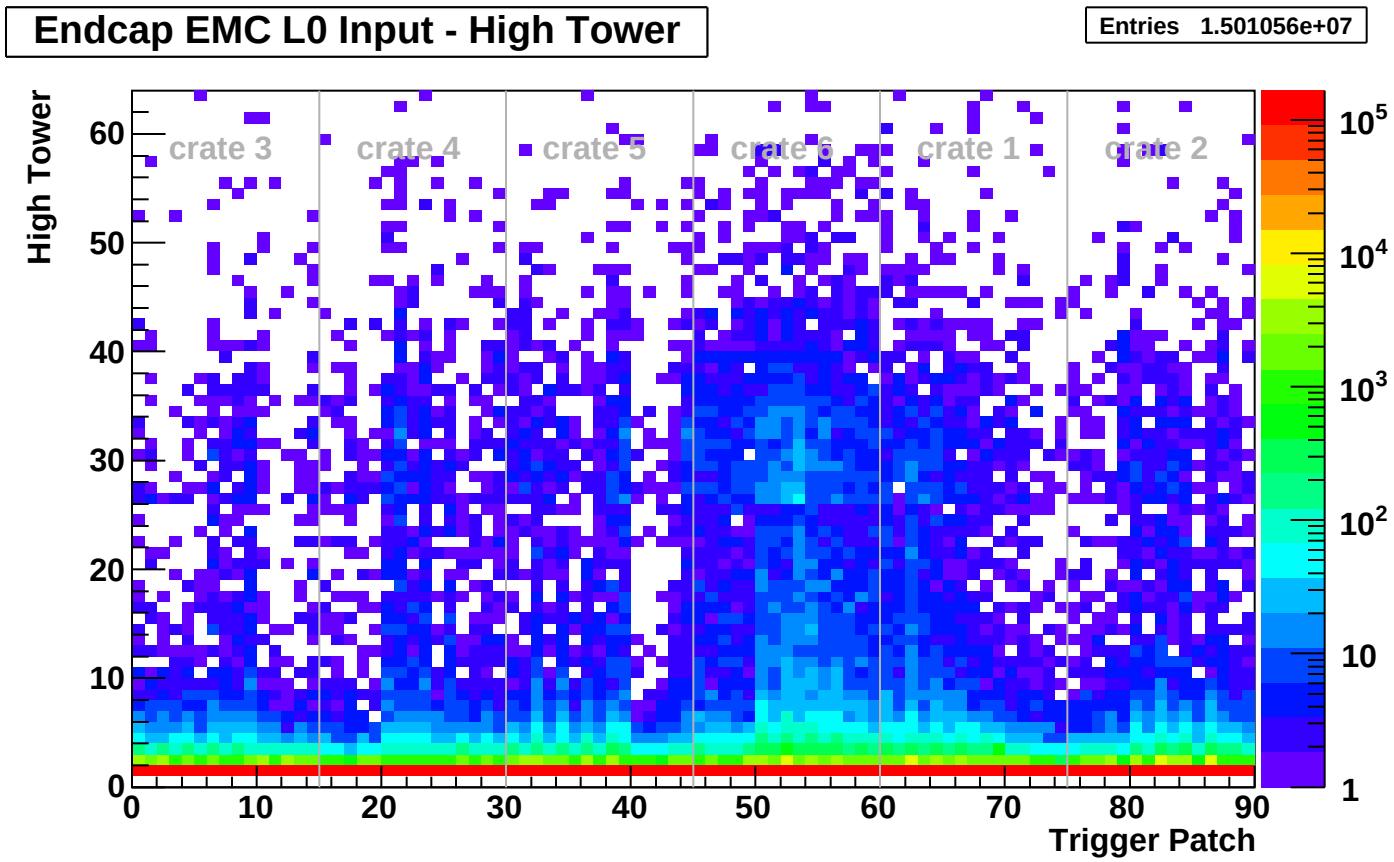

TCU bits
Entries 2668544
TCU bits
1
0
166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784 166784
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

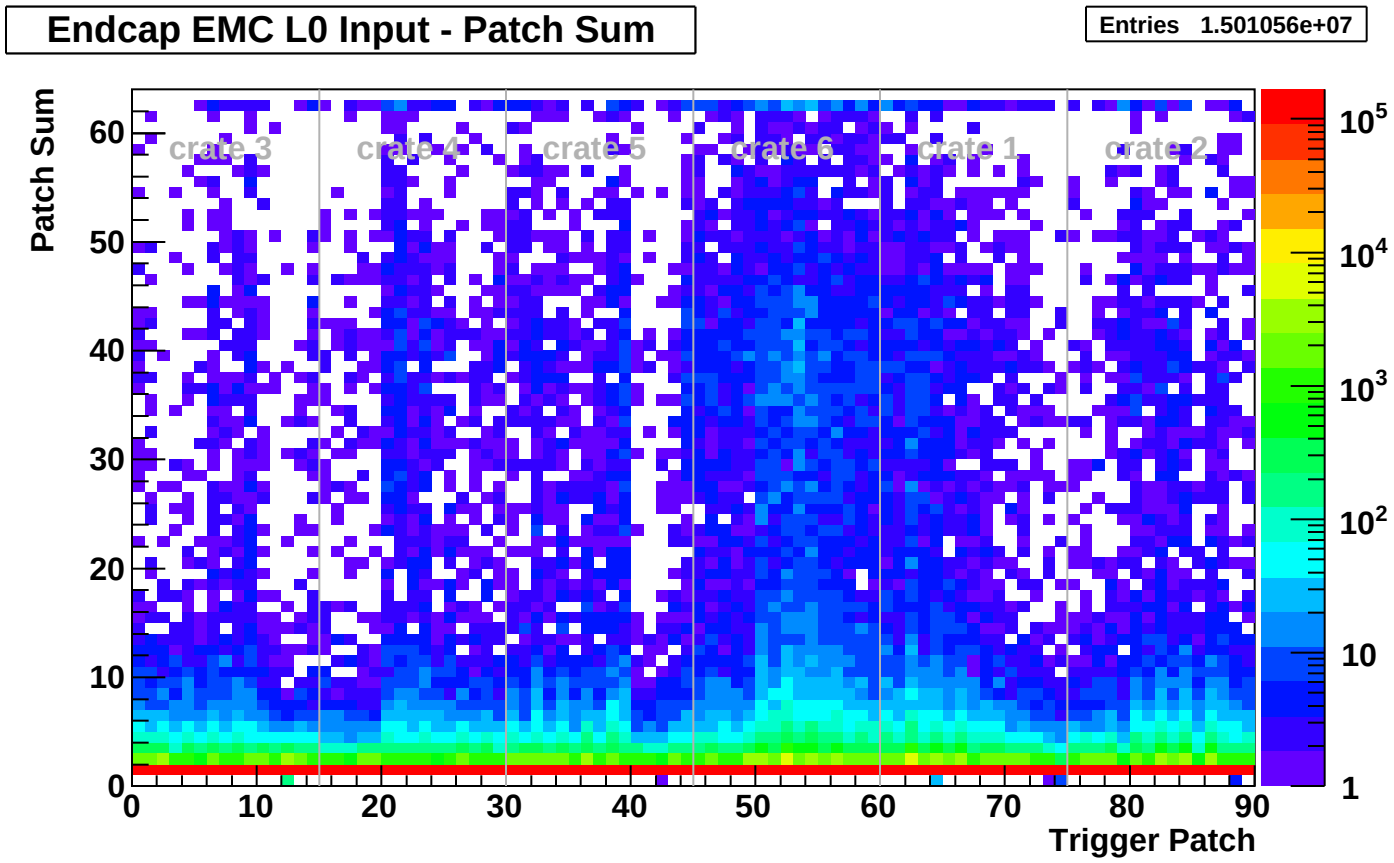

TCU bits
Entries 82533
TCU bits - Simulated
1
0
-1
-2
41736 34946 4321 370 214 946
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

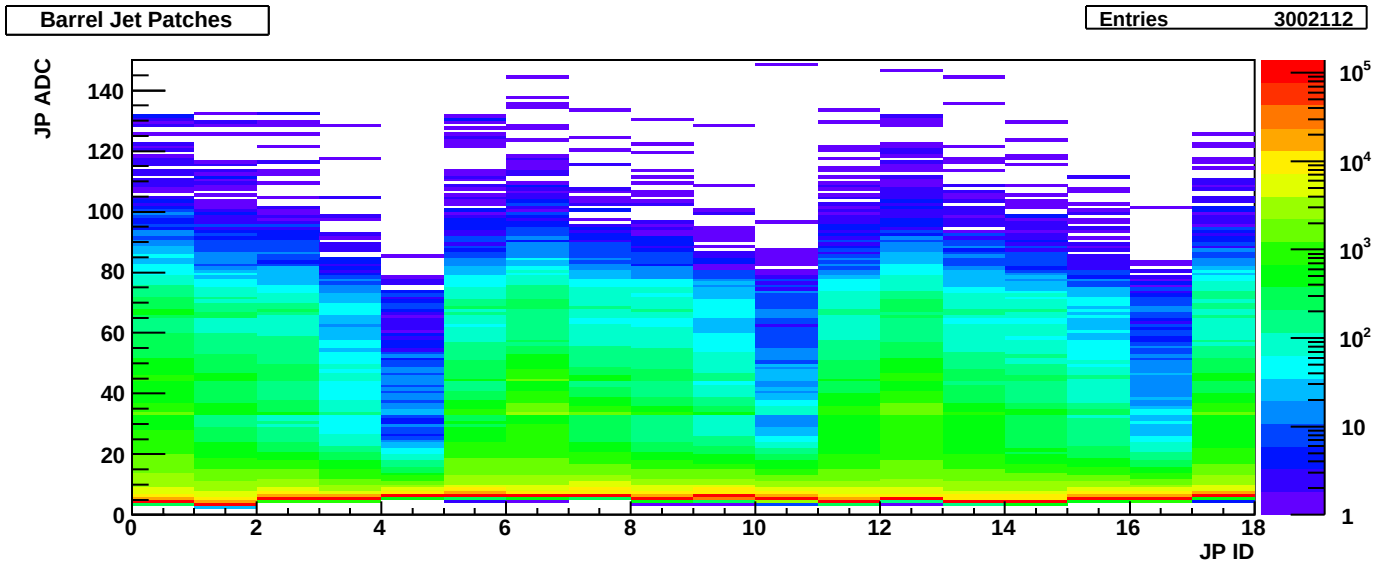

BunchId7Bit (BHT3)
Entries 10308
10²
10
1
0
20
40
60
80
100
120

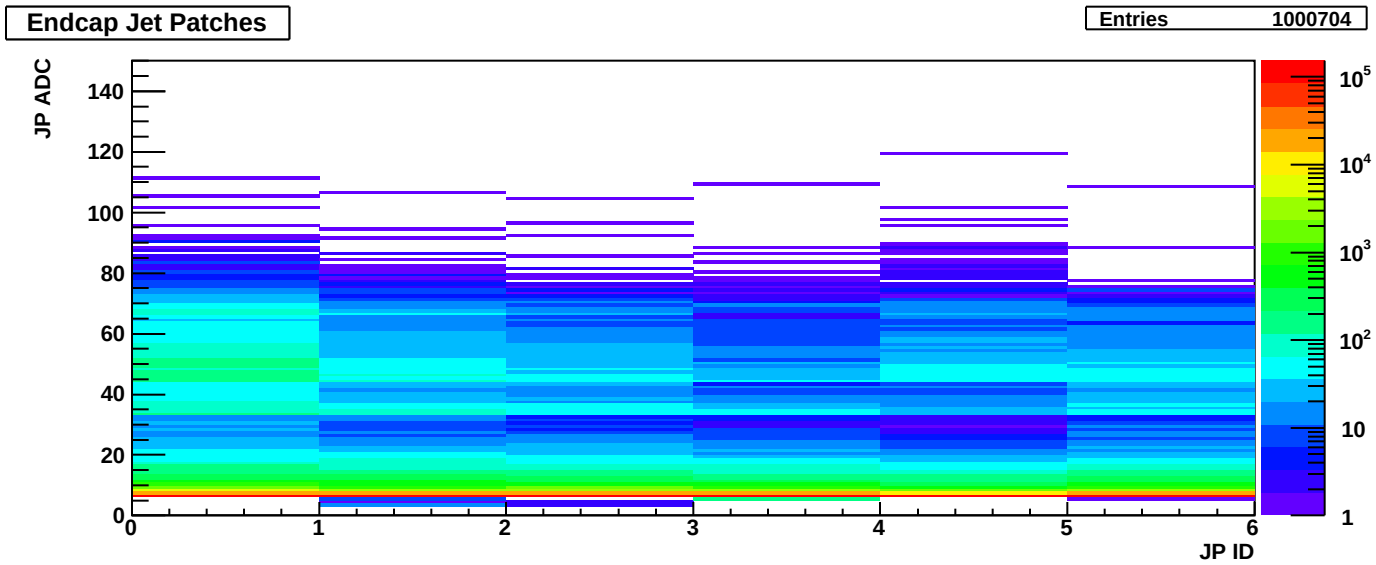

Barrel EMC L0 Input - High Tower
Entries 5.00352e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

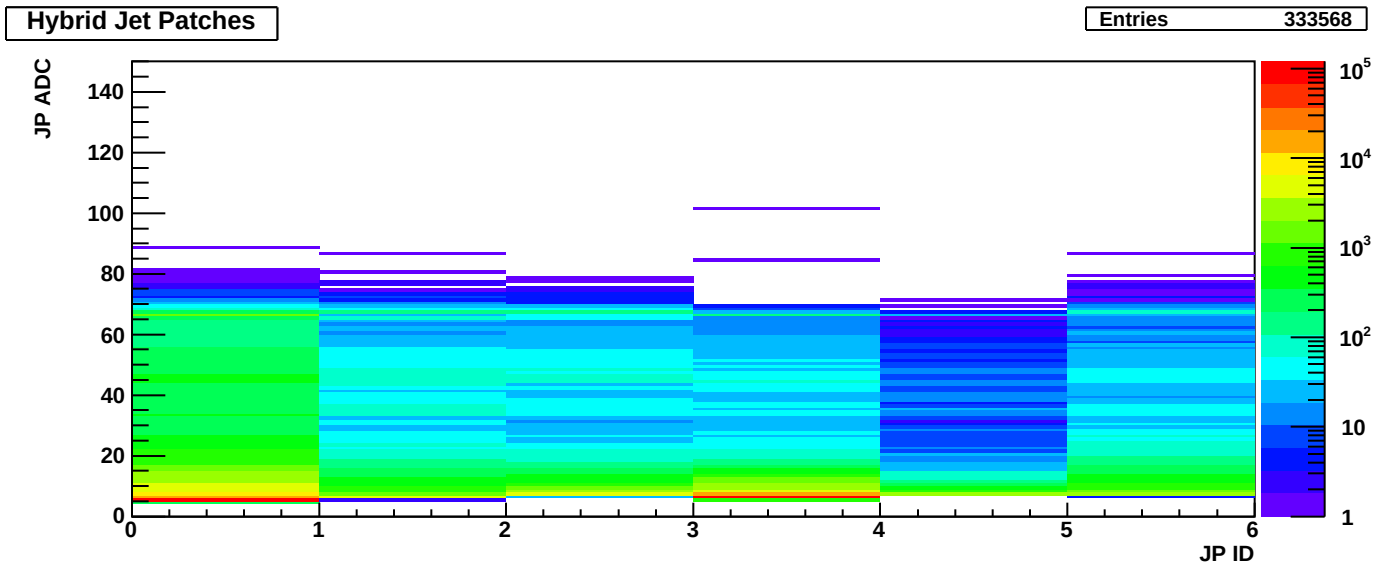

Barrel EMC L0 Input - Patch Sum
Entries 5.00352e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

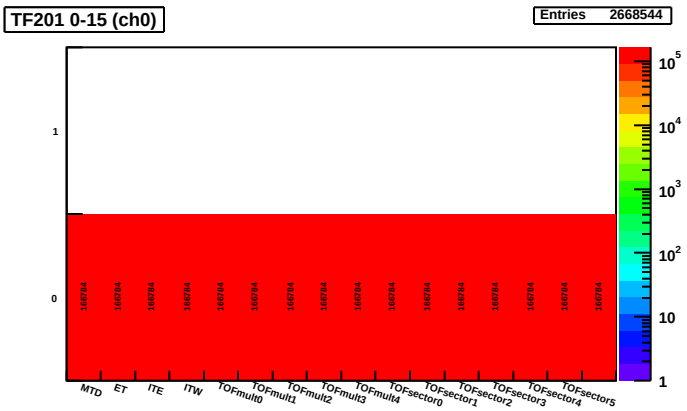

Endcap EMC L0 Input - High Tower
Entries 1.501056e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

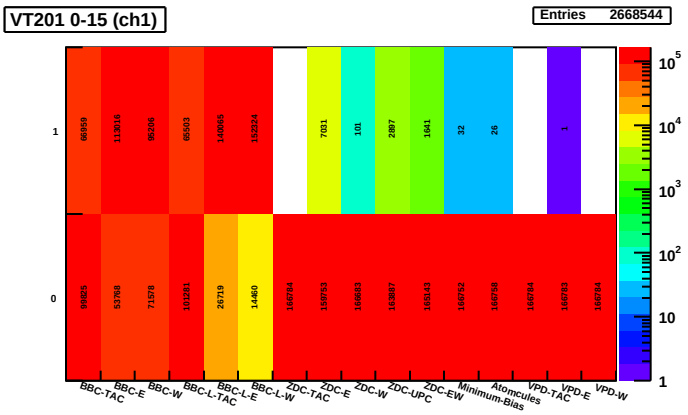

Endcap EMC L0 Input - Patch Sum
Entries 1.501056e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

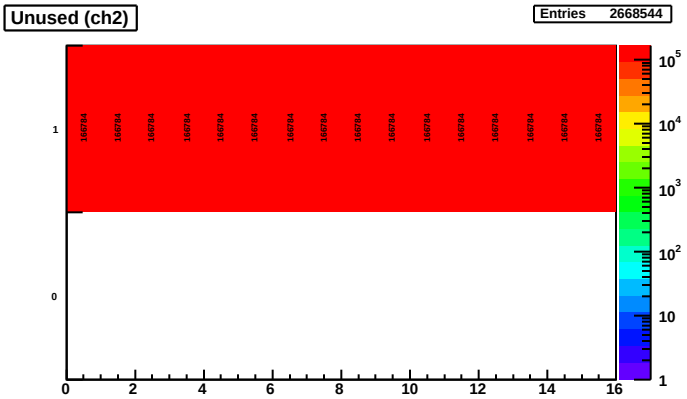

Barrel Jet Patches
Entries 3002112
JP ADC
JP ID

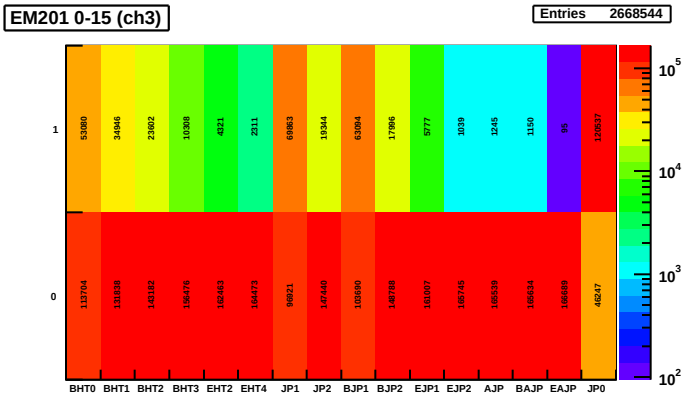

Endcap Jet Patches
Entries 1000704
JP ADC
JP ID

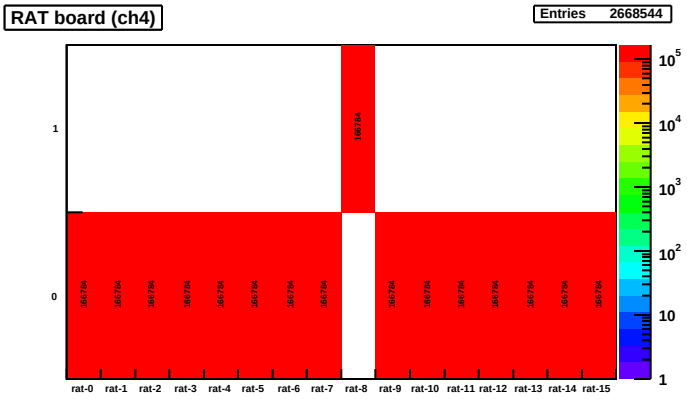

Hybrid Jet Patches
Entries 333568
JP ADC
JP ID

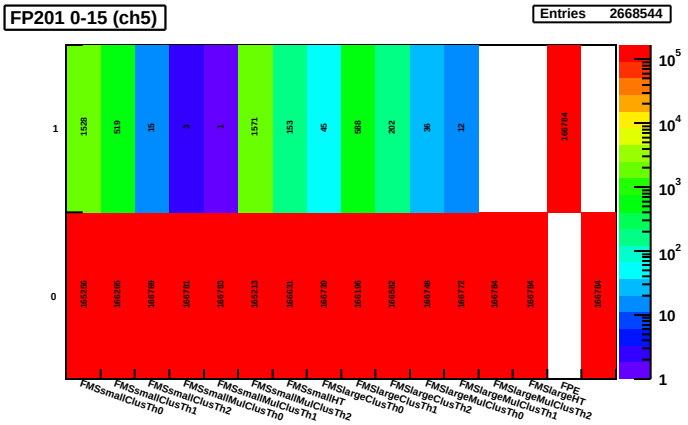

TF201 0-15 (ch0)
Entries 2668544
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

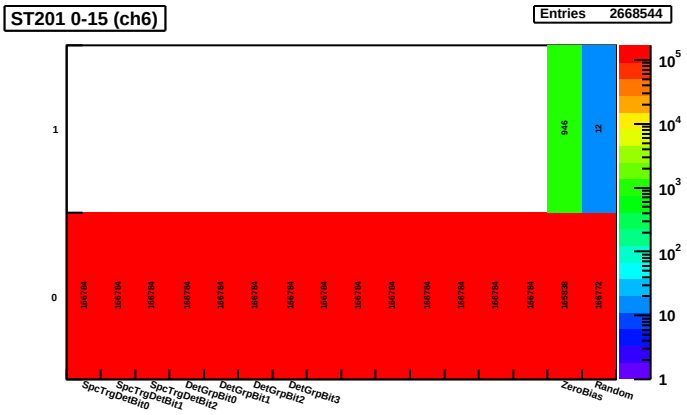

VT201 0-15 (ch1)
Entries 2668544
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

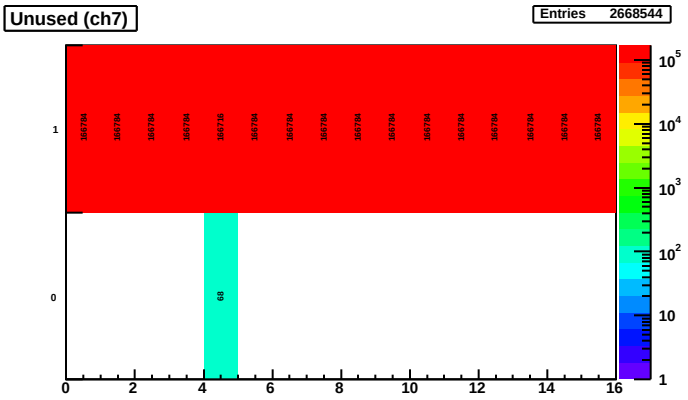

Unused (ch2)
Entries 2668544

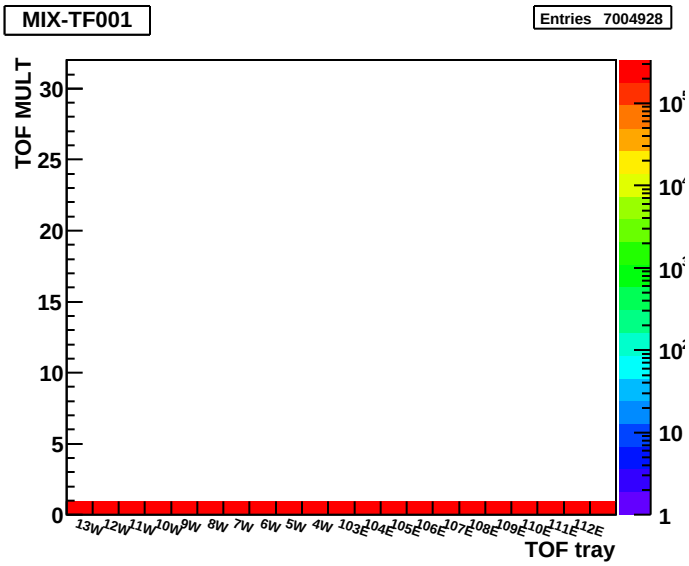

EM201 0-15 (ch3)
Entries 2668544
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

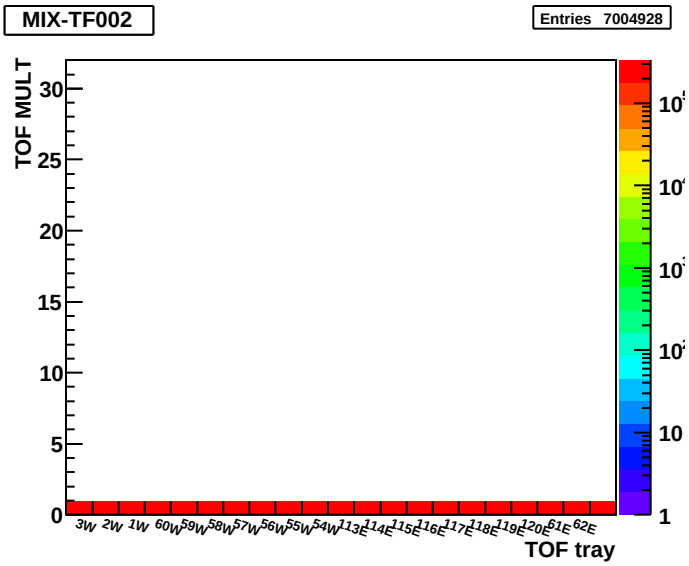

RAT board (ch4)
Entries 2668544
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

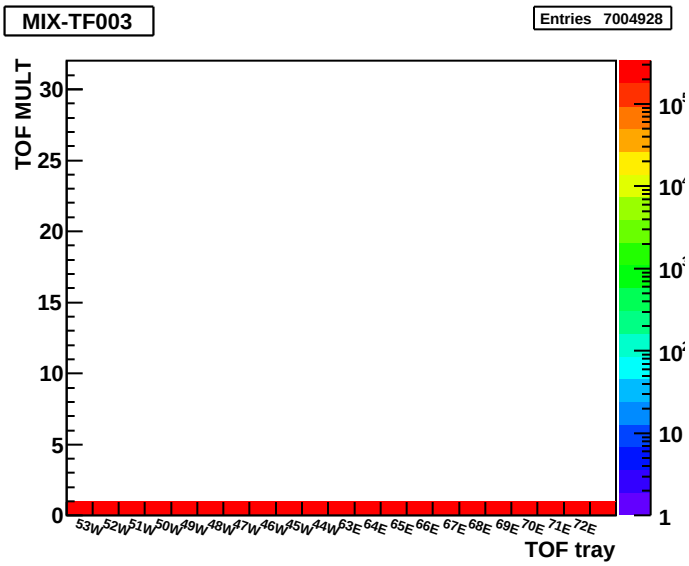

FP201 0-15 (ch5)
Entries 2668544
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

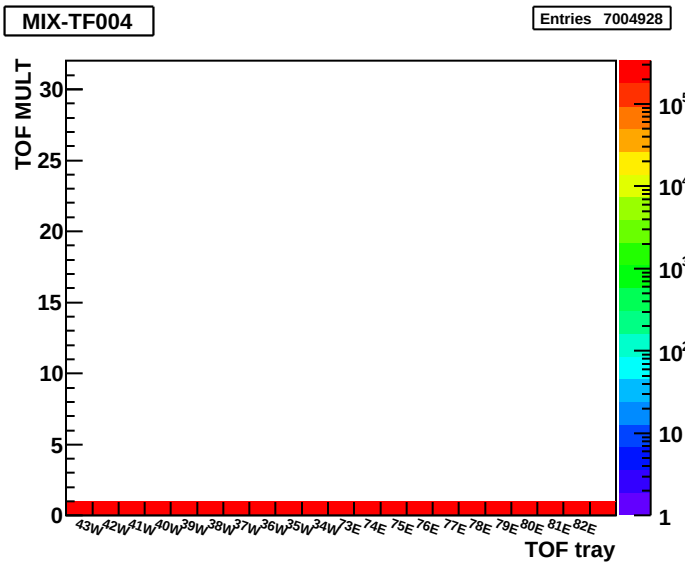

ST201 0-15 (ch6)
Entries 2668544
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

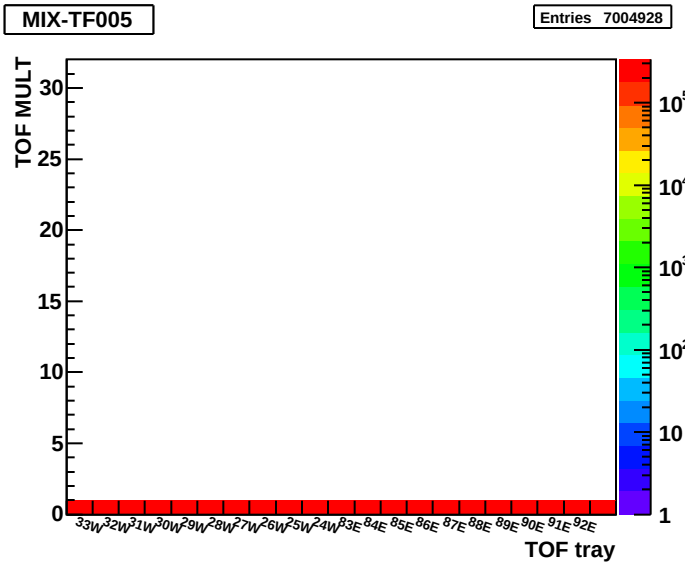

Unused (ch7)
Entries 2668544

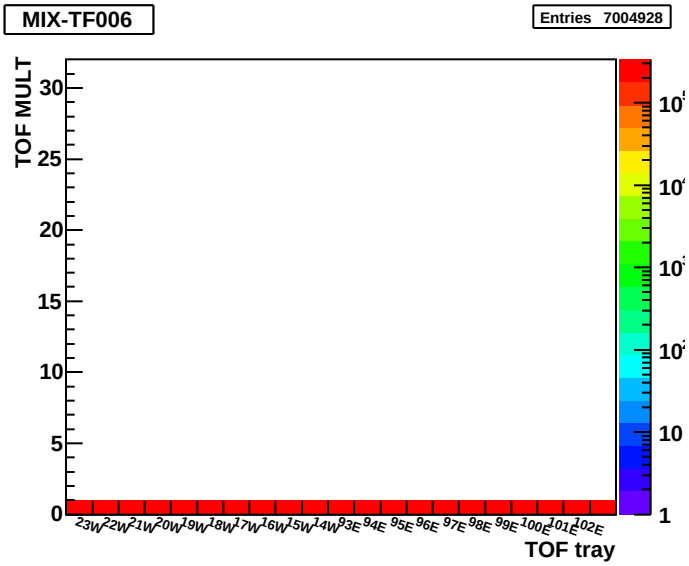

MIX-TF001
Entries 7004928
TOF MULT
TOF tray

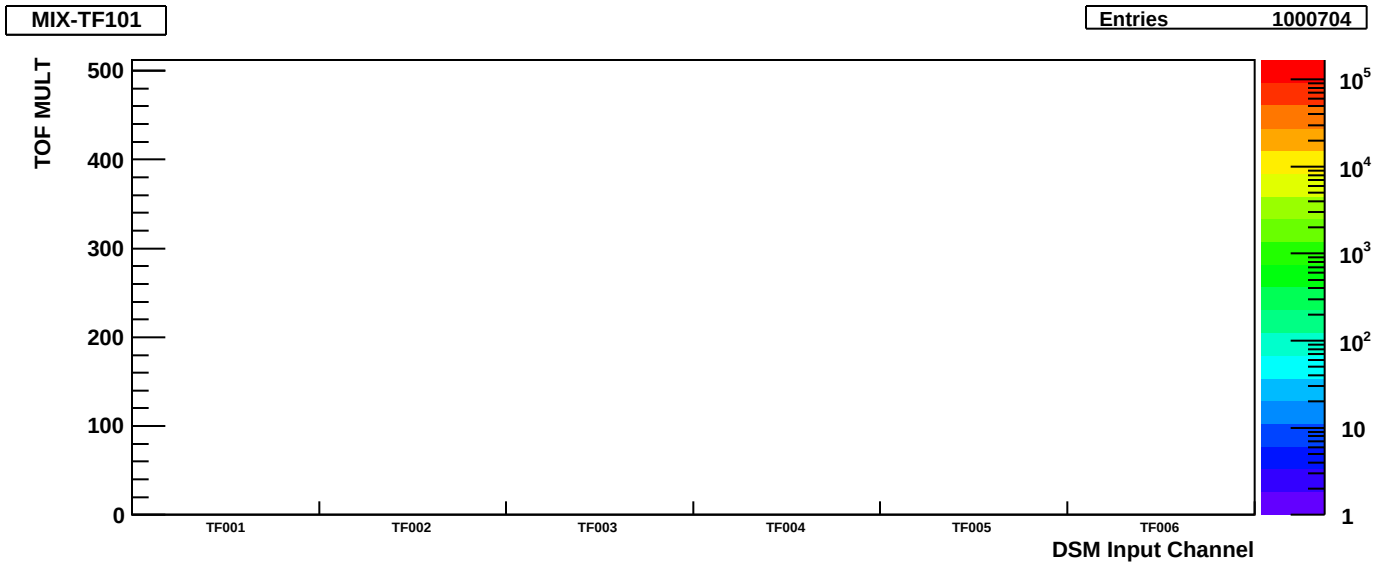

MIX-TF002
Entries 7004928
TOF MULT
TOF tray

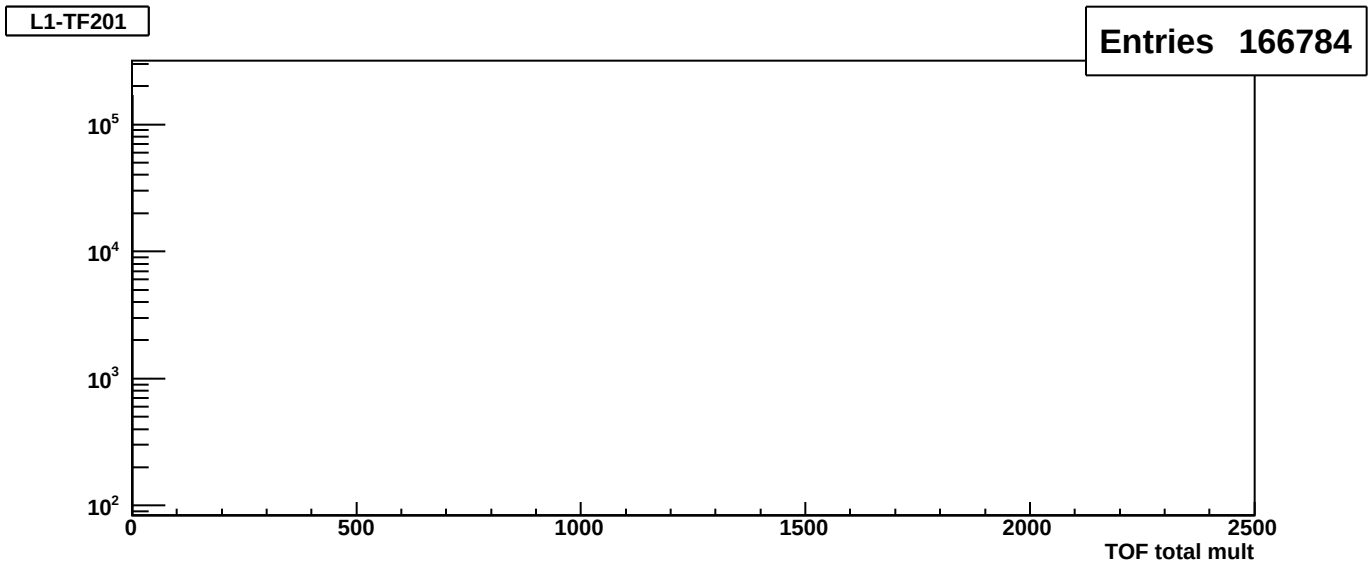

MIX-TF003
Entries 7004928
TOF MULT
TOF tray

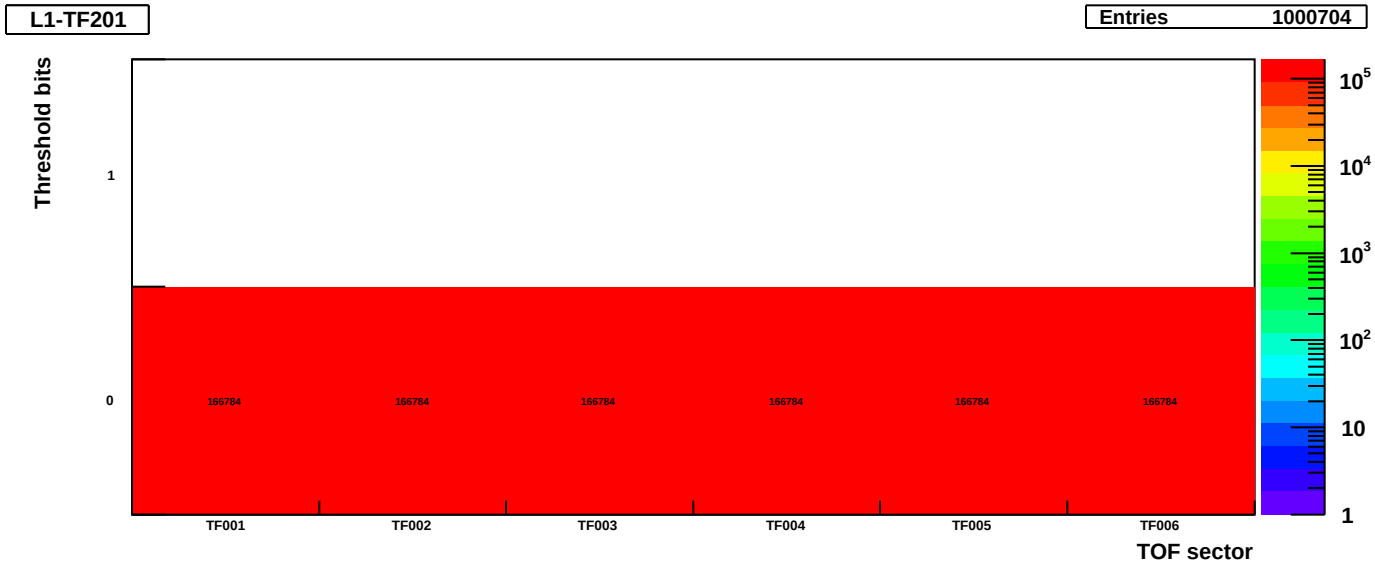

MIX-TF004
Entries 7004928
TOF MULT
TOF tray

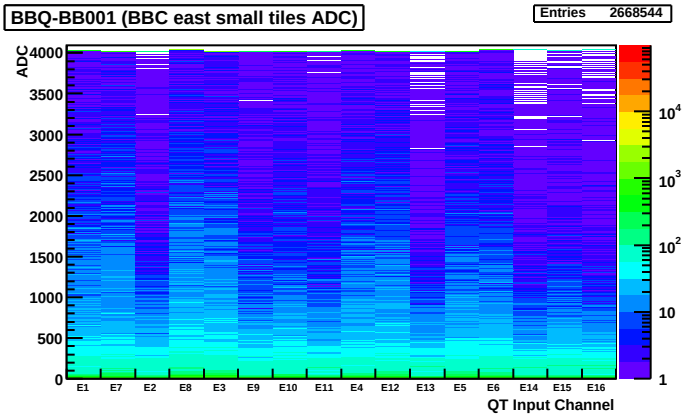

MIX-TF005
Entries 7004928
TOF MULT
TOF tray

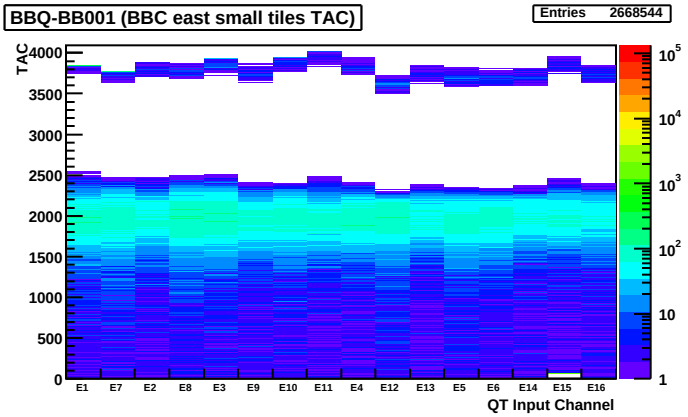

MIX-TF006
Entries 7004928
TOF MULT
TOF tray

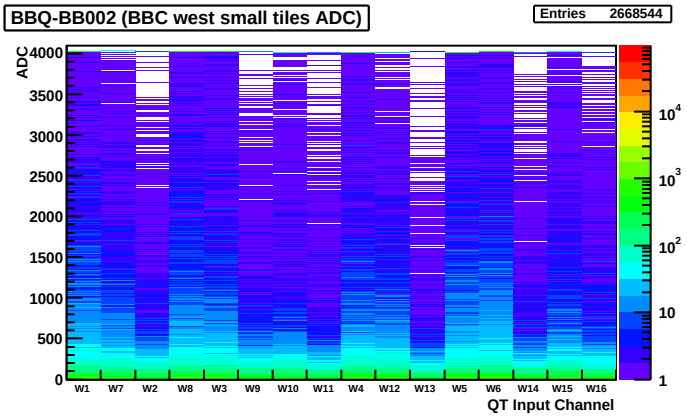

MIX-TF101
Entries 1000704
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

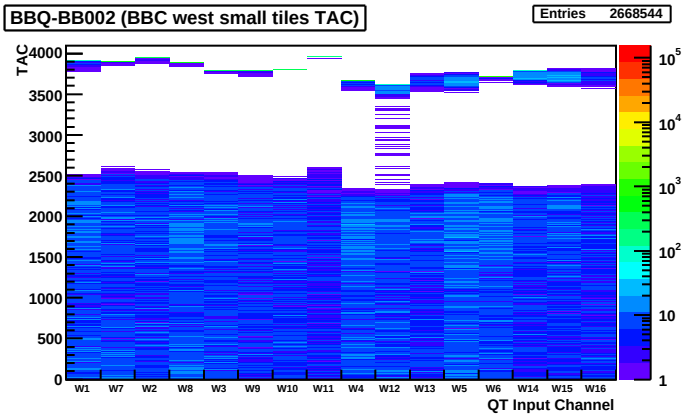

L1-TF201
Entries 166784
10^5
10^4
10^3
10^2
0
500
1000
1500
2000
2500
TOF total mult

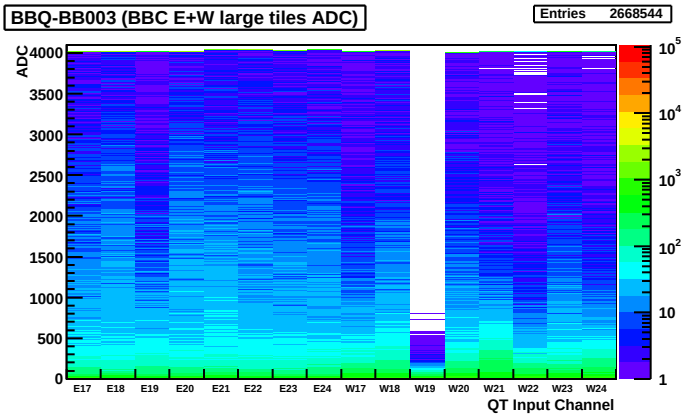

L1-TF201
Entries 1000704
Threshold bits
1
0
166784
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4
10^3
10^2
10
1

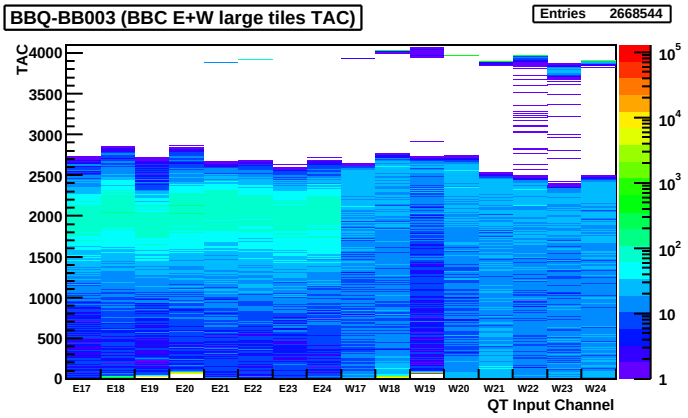

BBQ-BB001 (BBC east small tiles ADC)
Entries 2668544
ADC
QT Input Channel

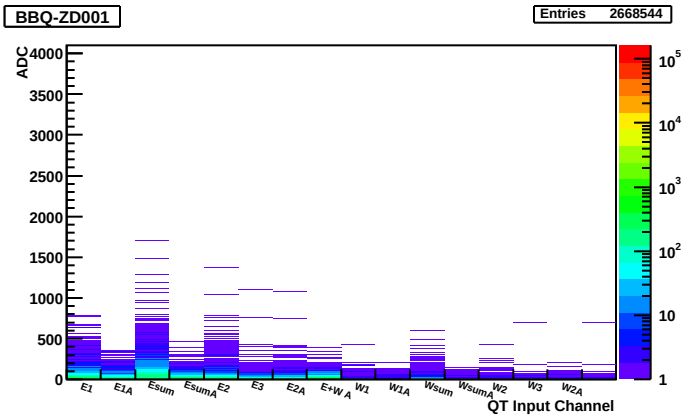

BBQ-BB001 (BBC east small tiles TAC)
Entries 2668544
TAC
QT Input Channel

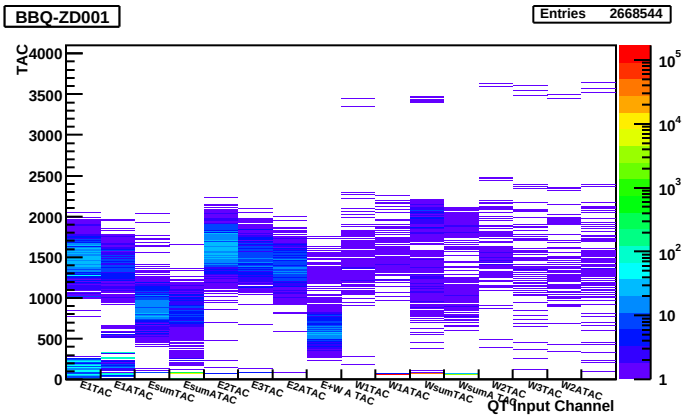

BBQ-BB002 (BBC west small tiles ADC)
Entries 2668544
ADC
QT Input Channel

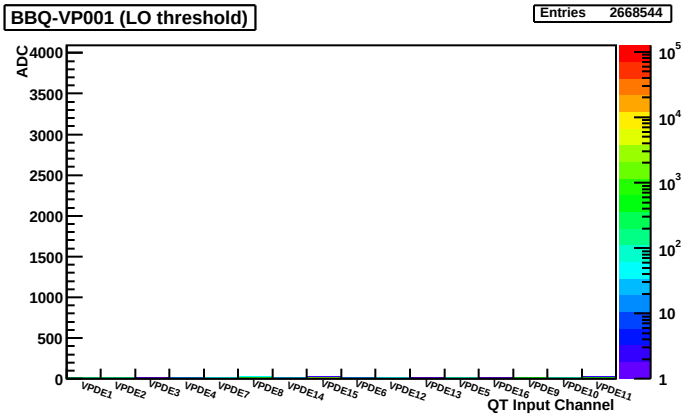

BBQ-BB002 (BBC west small tiles TAC)
Entries 2668544
TAC
QT Input Channel

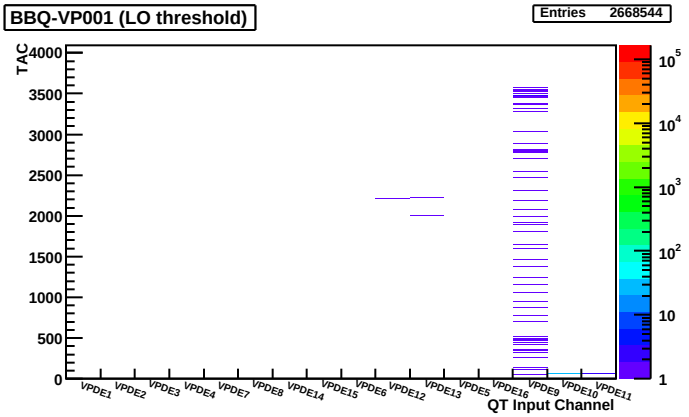

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2668544
ADC
QT Input Channel

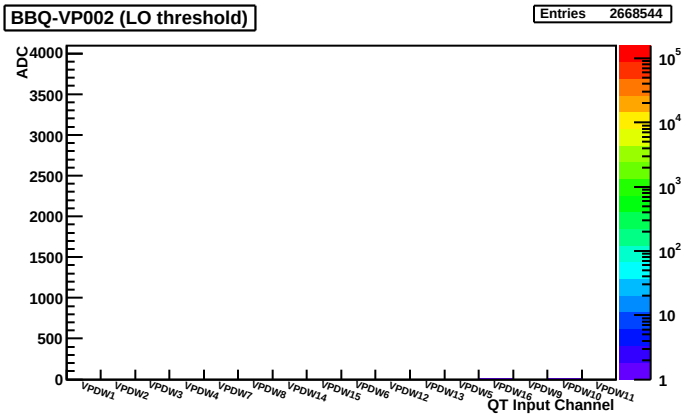

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2668544
TAC
QT Input Channel

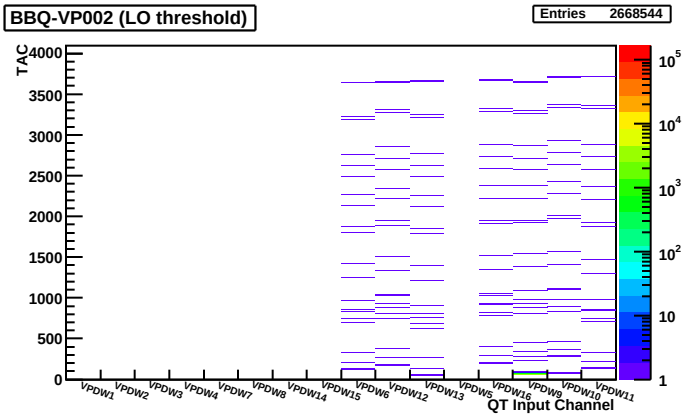

BBQ-ZD001
Entries 2668544
ADC
QT Input Channel

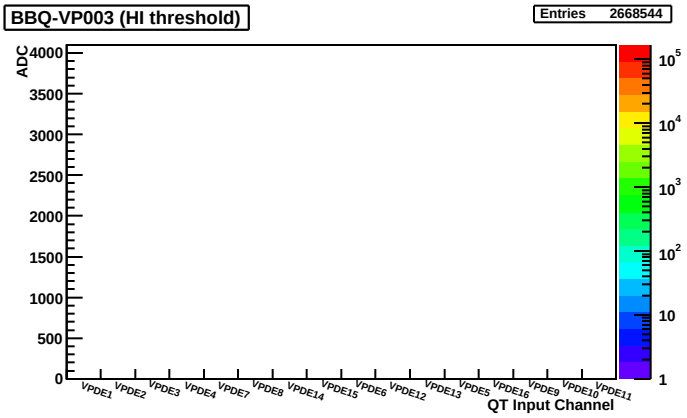

BBQ-ZD001
Entries 2668544
TAC
QT Input Channel

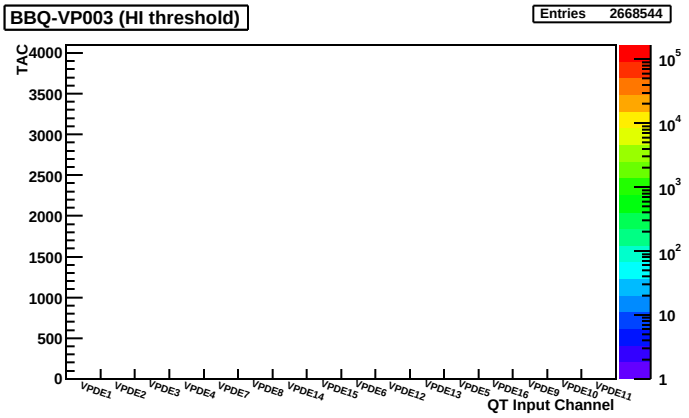

BBQ-VP001 (LO threshold)
Entries 2668544
ADC
QT Input Channel

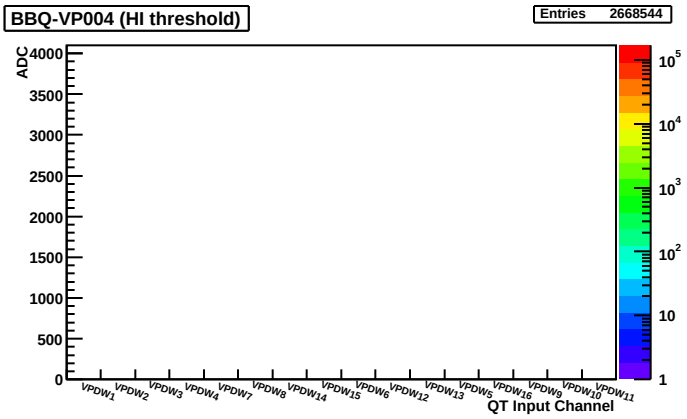

BBQ-VP001 (LO threshold)
Entries 2668544
TAC
QT Input Channel

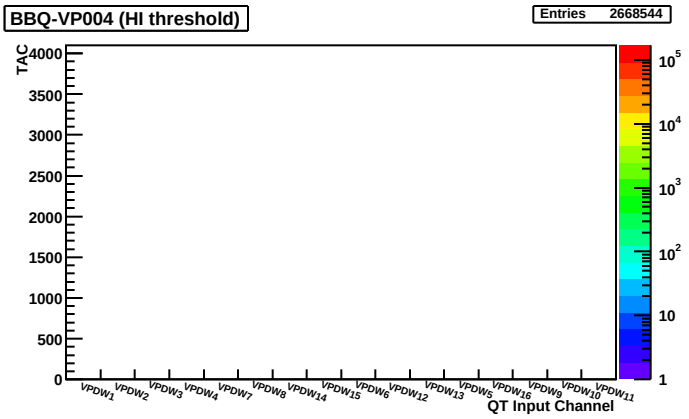

BBQ-VP002 (LO threshold)
Entries 2668544
ADC
QT Input Channel

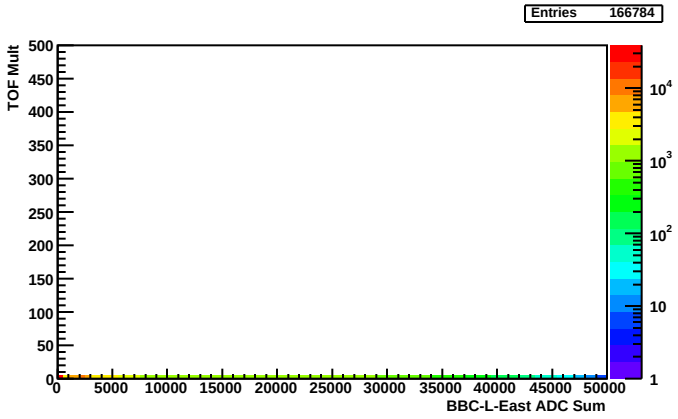

BBQ-VP002 (LO threshold)
Entries 2668544
TAC
QT Input Channel

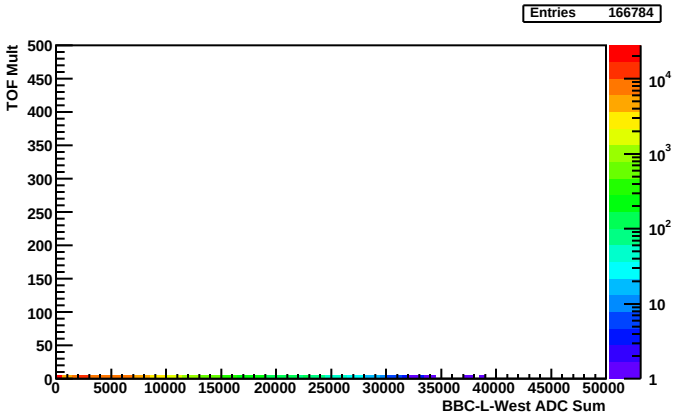

BBQ-VP003 (HI threshold)
Entries 2668544
ADC
QT Input Channel

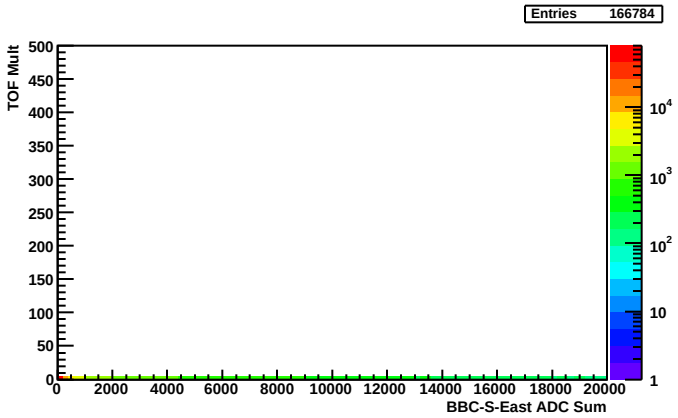

BBQ-VP003 (HI threshold)
Entries 2668544
TAC
QT Input Channel

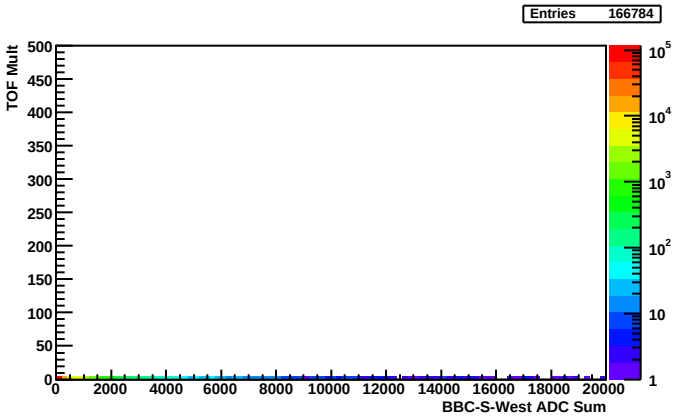

BBQ-VP004 (HI threshold)
Entries 2668544
ADC
QT Input Channel

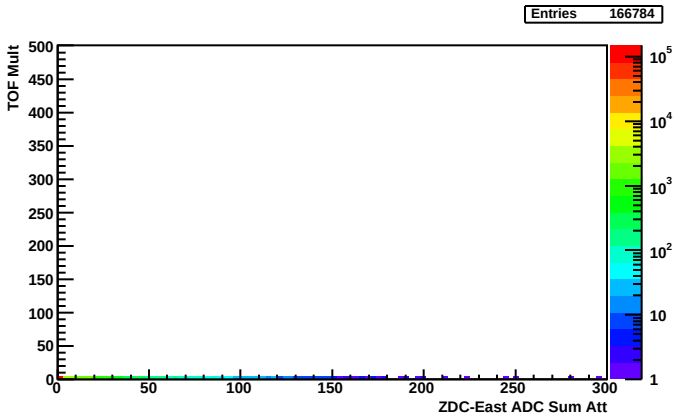

BBQ-VP004 (HI threshold)
Entries 2668544
TAC
QT Input Channel

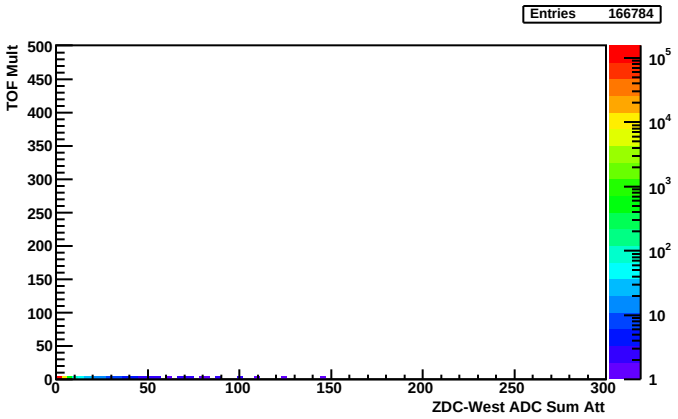

Entries 166784
TOF Mult
BBC-L-East ADC Sum

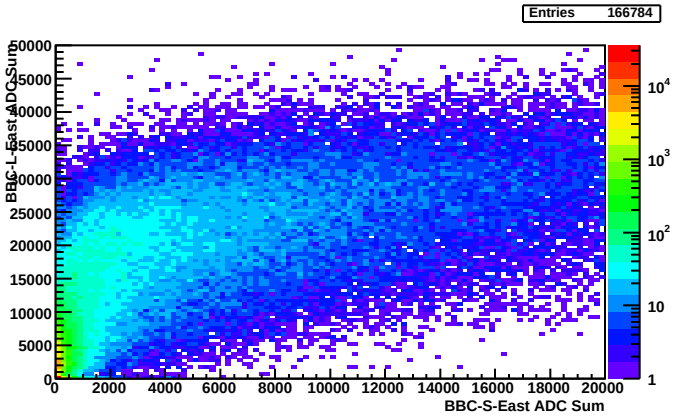

Entries 166784
TOF Mult
BBC-L-West ADC Sum

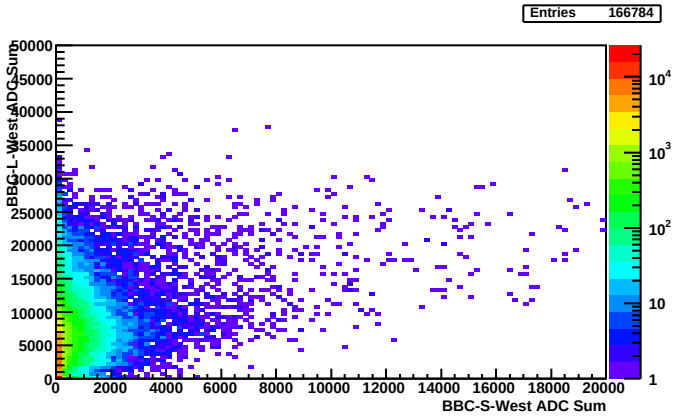

Entries 166784
TOF Mult
BBC-S-East ADC Sum

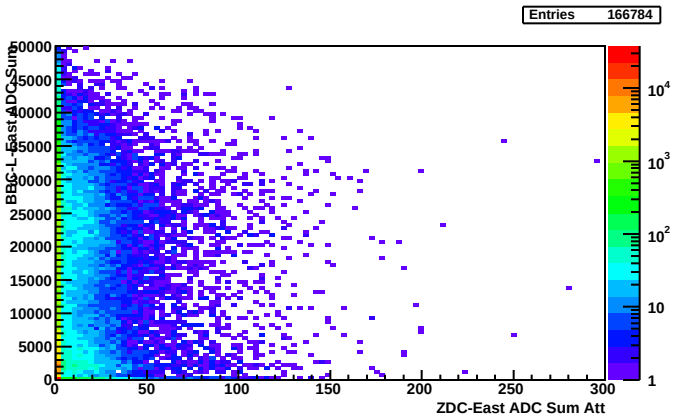

Entries 166784
TOF Mult
BBC-S-West ADC Sum

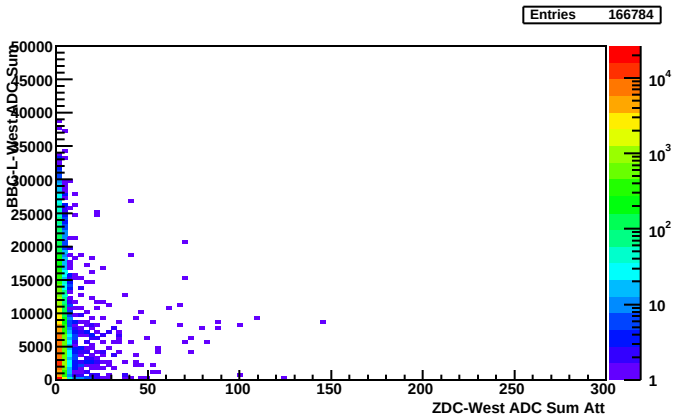

Entries 166784
TOF Mult
ZDC-East ADC Sum Att

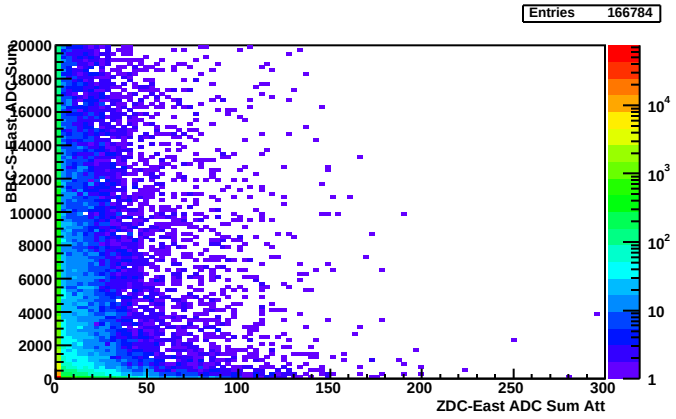

Entries 166784
TOF Mult
ZDC-West ADC Sum Att

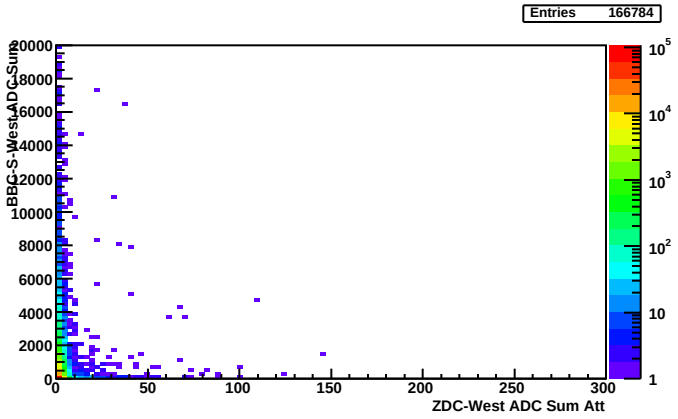

Entries 166784
BBC-L-East ADC Sum
BBC-S-East ADC Sum

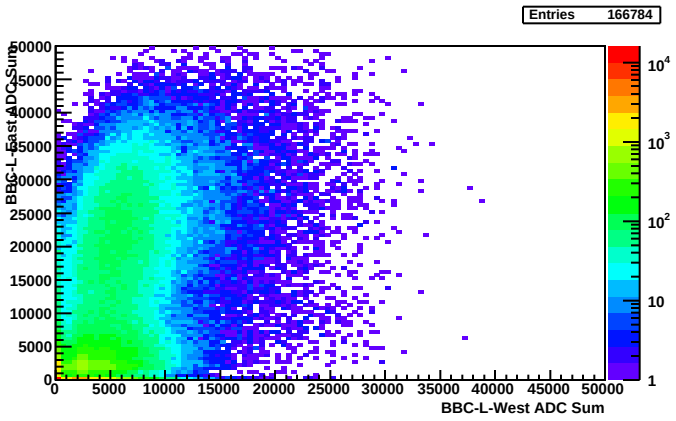

Entries 166784
BBC-L-West ADC Sum
BBC-S-West ADC Sum

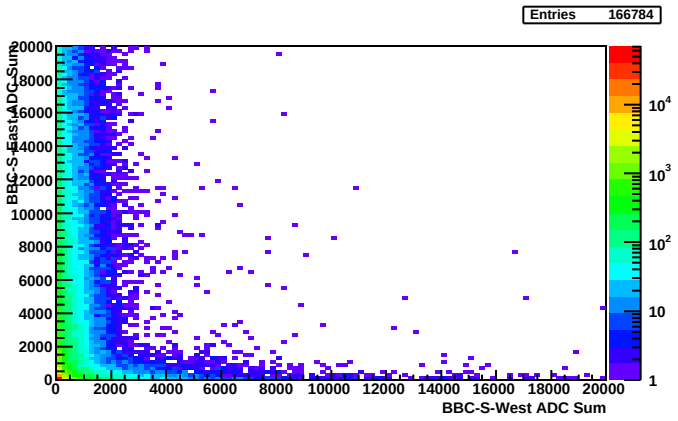

Entries 166784
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

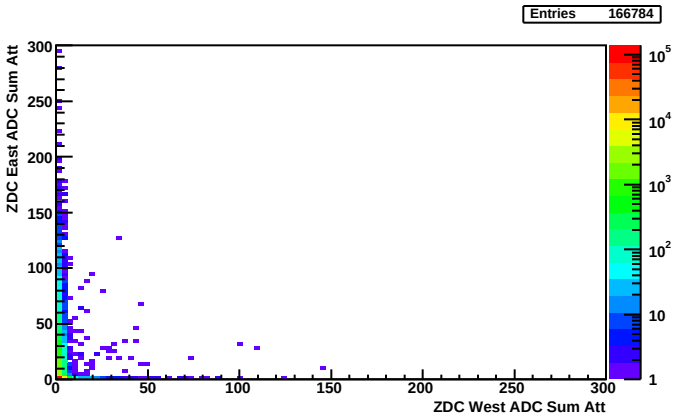

Entries 166784
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

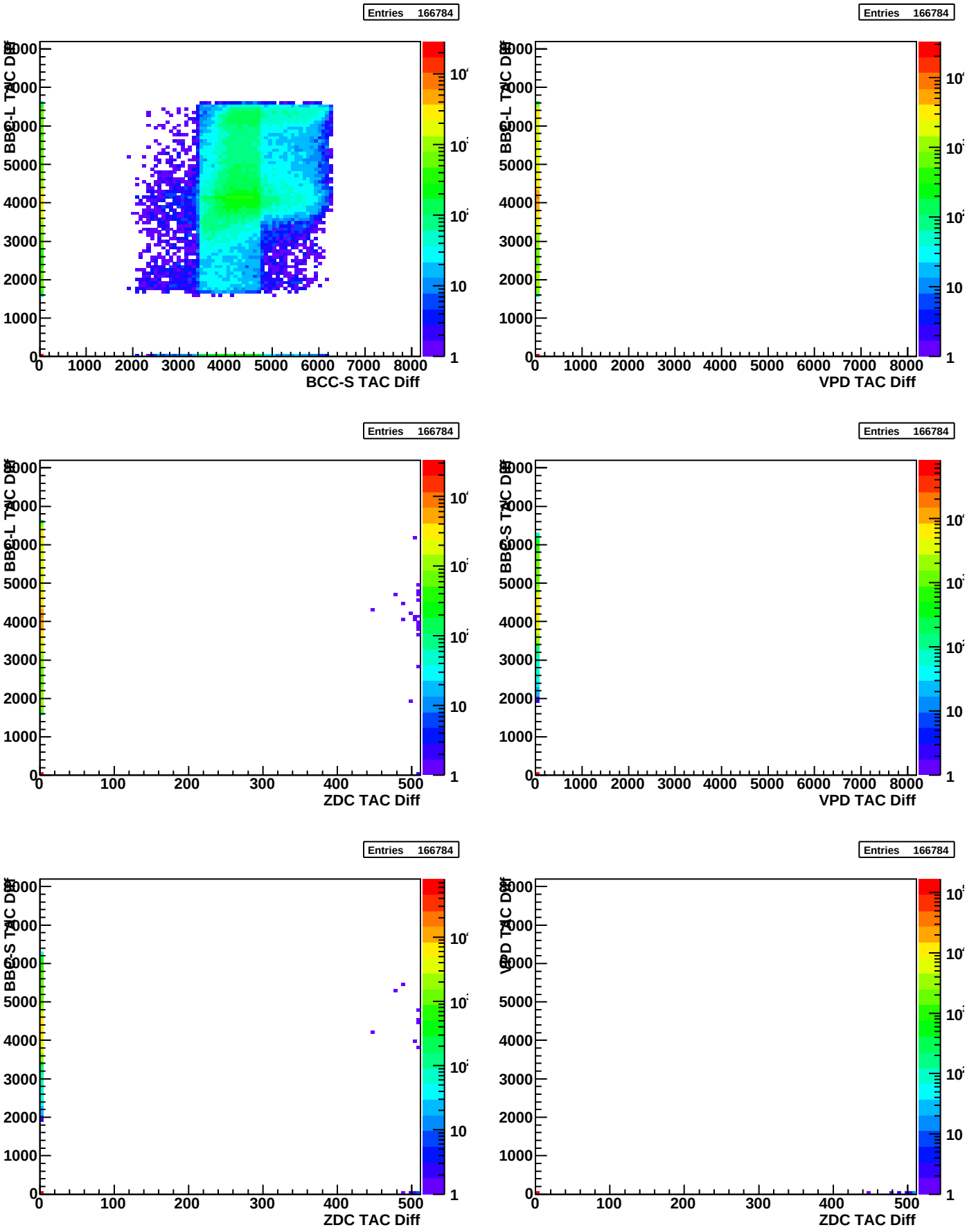

Entries 166784
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

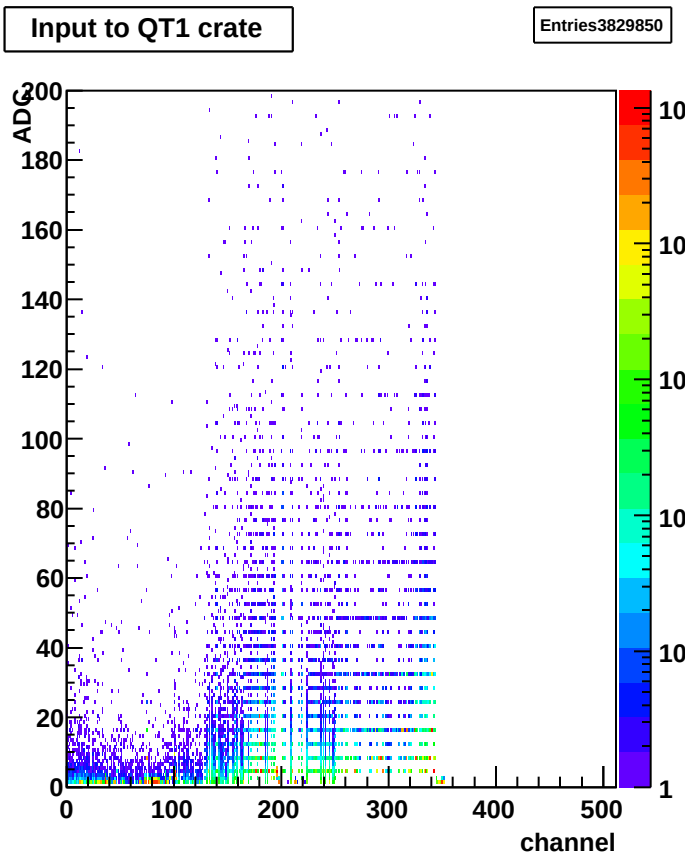

Entries 166784
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

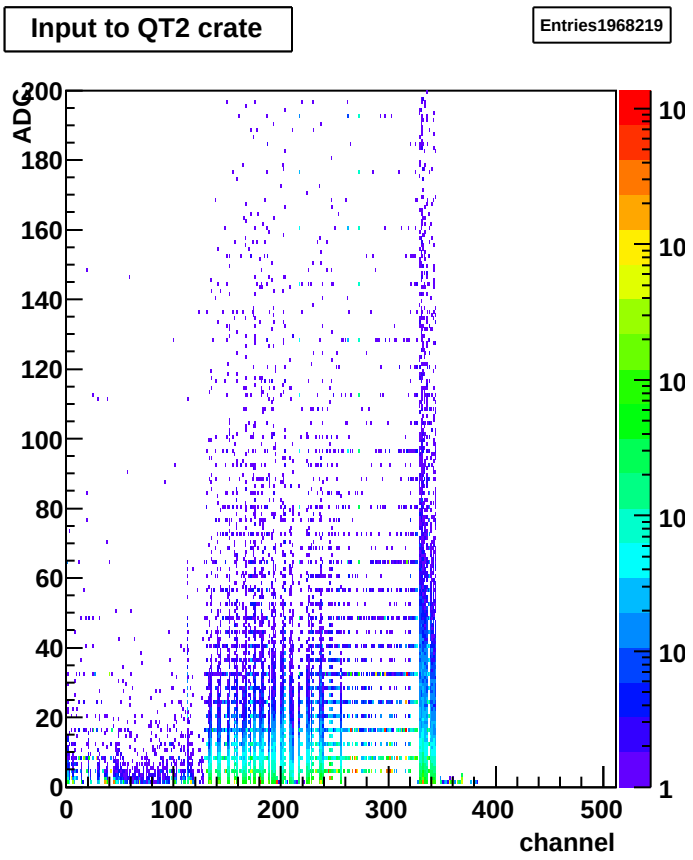

Entries 166784
BBC-L-East ADC Sum
BBC-L-West ADC Sum

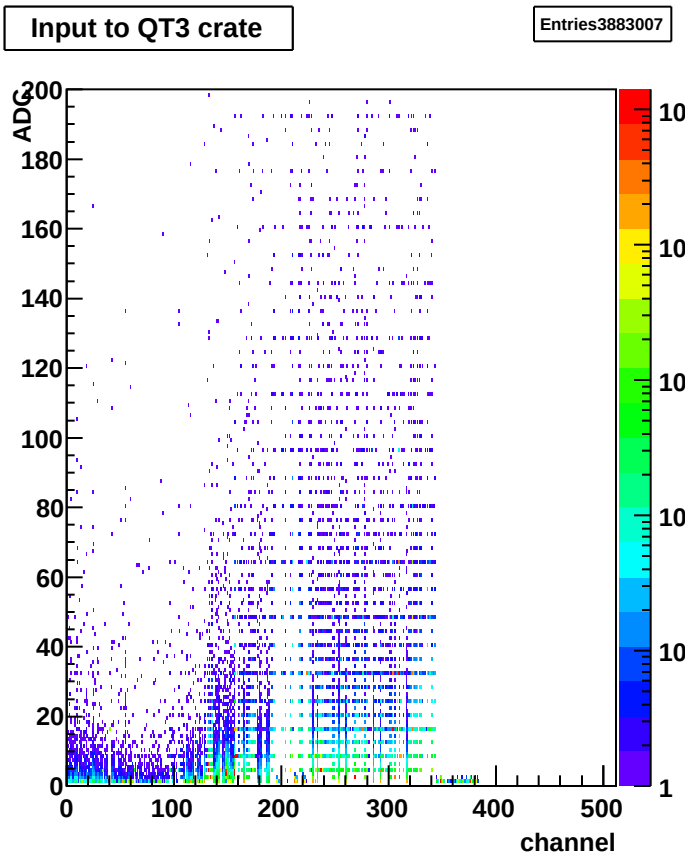

Entries 166784
BBC-S-East ADC Sum
BBC-S-West ADC Sum

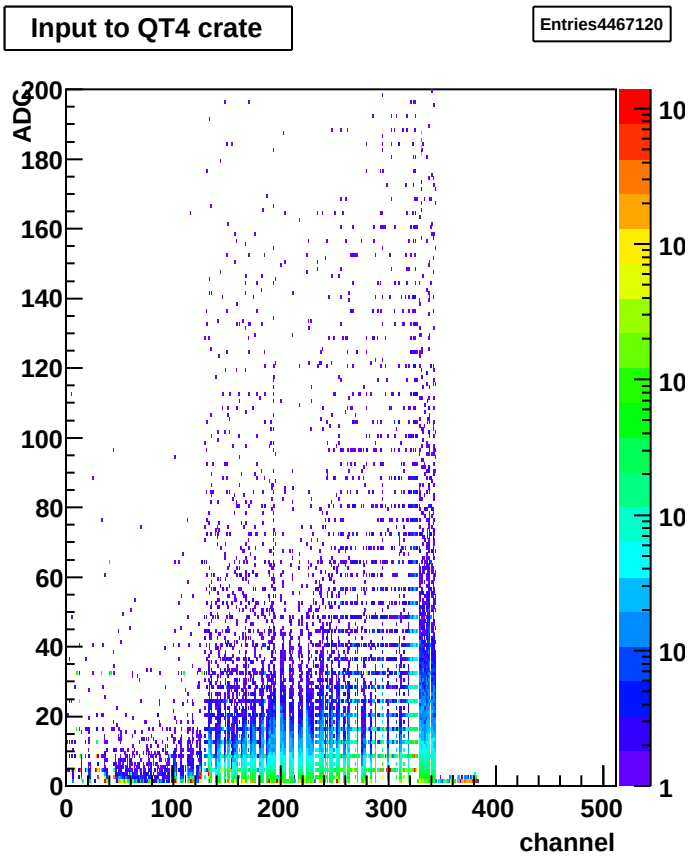

Entries 166784
ZDC East ADC Sum Att
ZDC West ADC Sum Att

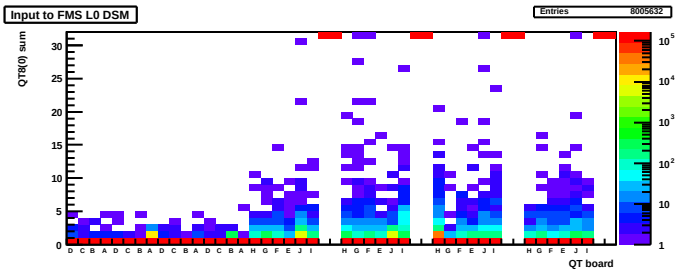

Entries 166784
BBC-L TAC Diff
BCC-S TAC Diff
Entries 166784
BBC-L TAC Diff
VPD TAC Diff
Entries 166784
BBC-L TAC Diff
ZDC TAC Diff
Entries 166784
BBC-S TAC Diff
VPD TAC Diff
Entries 166784
BBC-S TAC Diff
ZDC TAC Diff
Entries 166784
VPD TAC Diff
ZDC TAC Diff

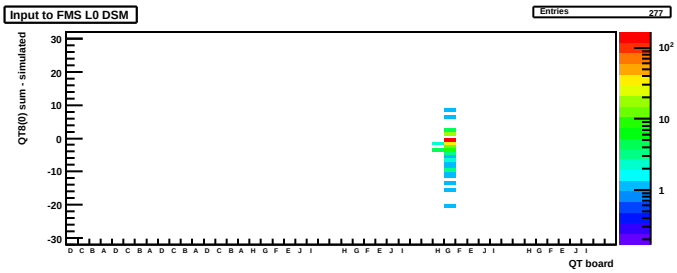

Input to QT1 crate
Entries3829850
ADC
channel

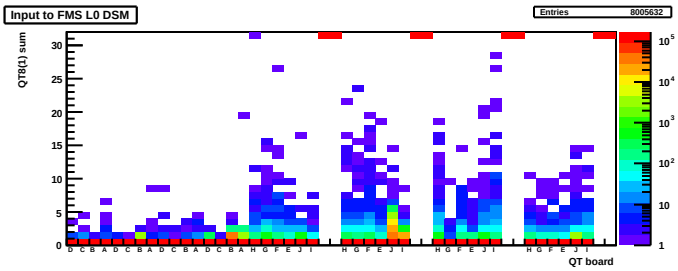

Input to QT2 crate
Entries1968219
ADC
channel

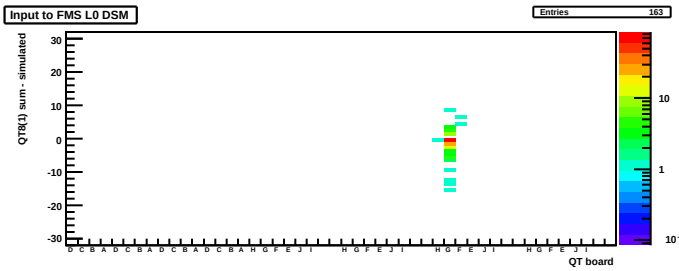

Input to QT3 crate
Entries3883007
ADC
channel

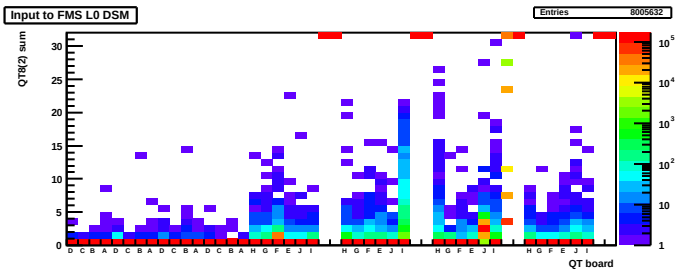

Input to QT4 crate
Entries4467120
ADC
channel

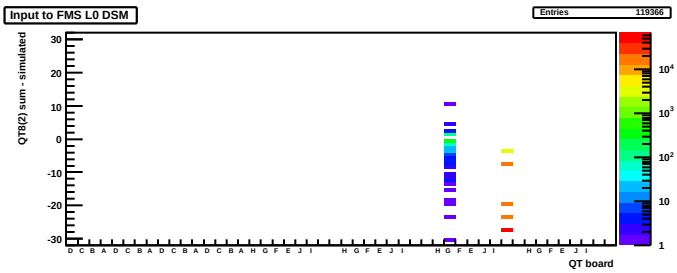

Input to FMS L0 DSM
Entries 8005632
QT8(0) sum
QT board

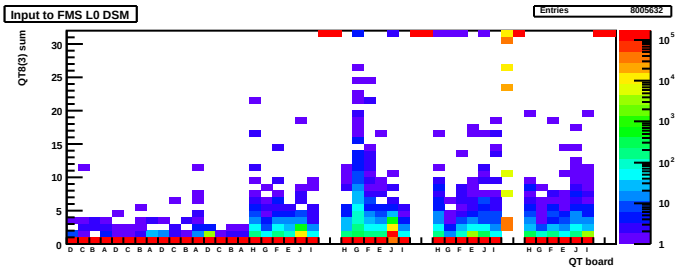

Input to FMS L0 DSM
Entries 277
QT8(0) sum - simulated
QT board

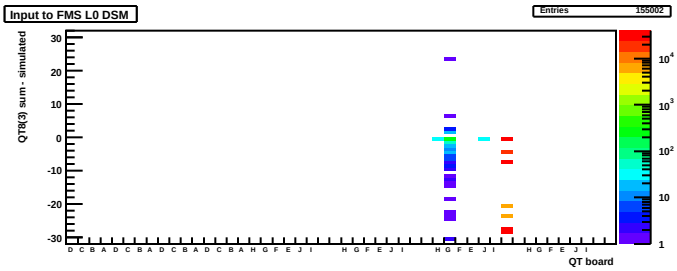

Input to FMS L0 DSM
Entries 8005632
QT8(1) sum
QT board

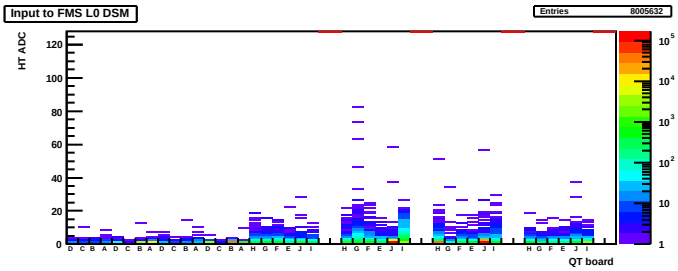

Input to FMS L0 DSM
Entries 163
QT8(1) sum - simulated
QT board

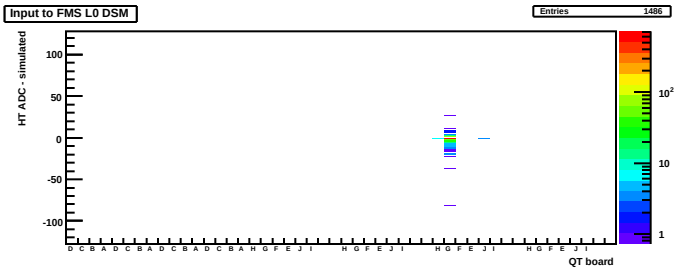

Input to FMS L0 DSM
Entries 8005632
QT8(2) sum
QT board

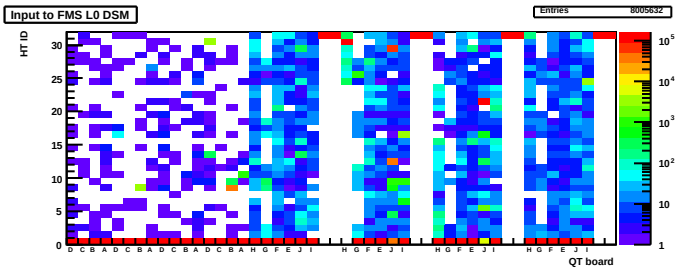

Input to FMS L0 DSM
Entries 119366
QT8(2) sum - simulated
QT board

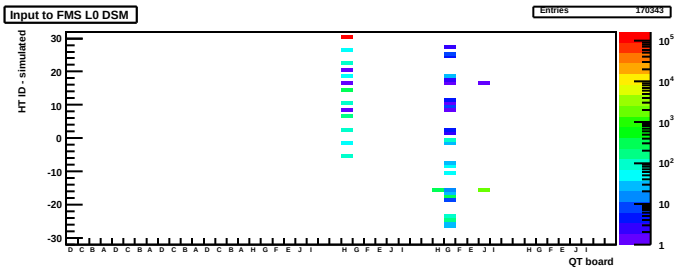

Input to FMS L0 DSM
Entries 8005632
QT8(3) sum
QT board

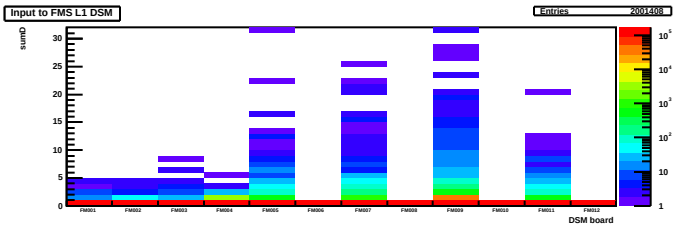

Input to FMS L0 DSM
Entries 155002
QT8(3) sum - simulated
QT board

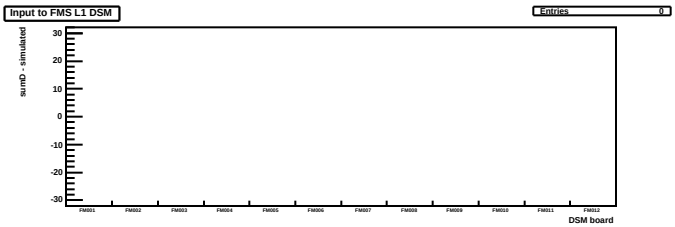

Input to FMS L0 DSM
Entries 8005632
HT ADC
QT board

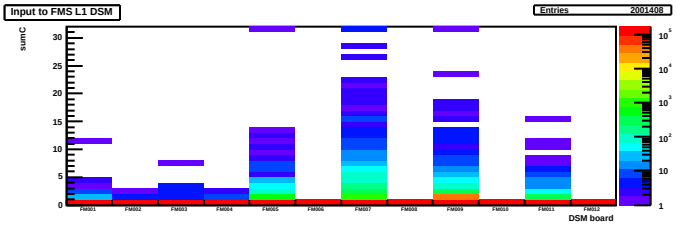

Input to FMS L0 DSM
Entries 1486
HT ADC - simulated
QT board

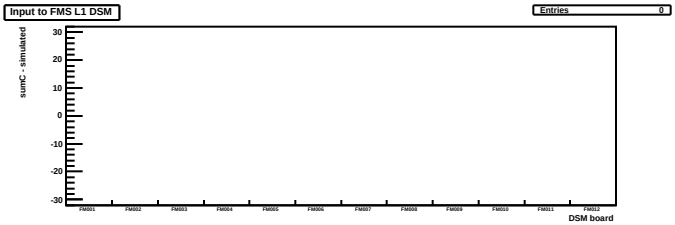

Input to FMS L0 DSM
Entries 8005632
HT ID
QT board

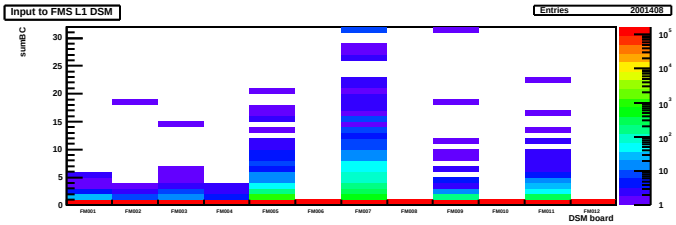

Input to FMS L0 DSM
Entries 170343
HT ID - simulated
QT board

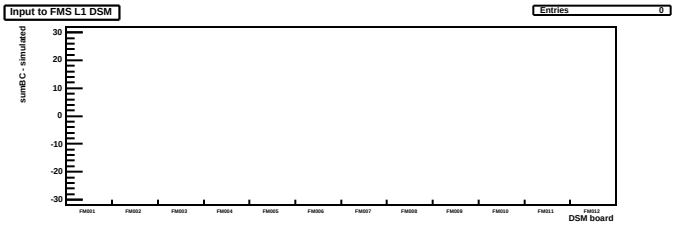

Input to FMS L1 DSM
Entries 2001408
sumD
DSM board

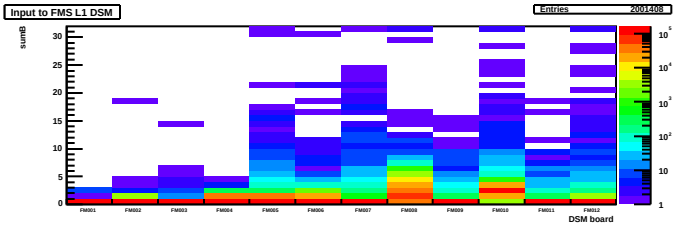

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

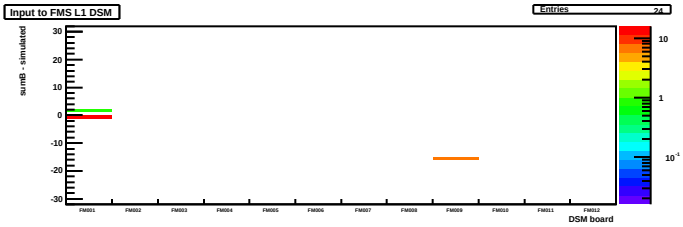

Input to FMS L1 DSM
Entries 2001408
sumC
DSM board

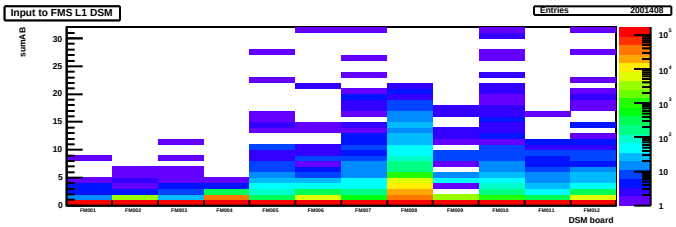

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

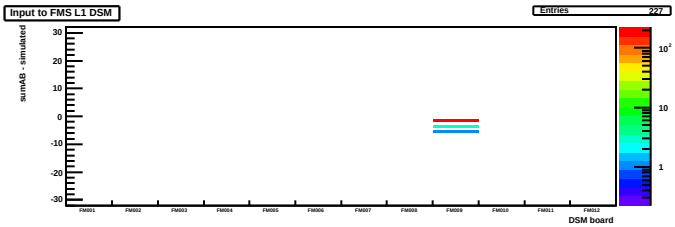

Input to FMS L1 DSM
Entries 2001408
sumBC
DSM board

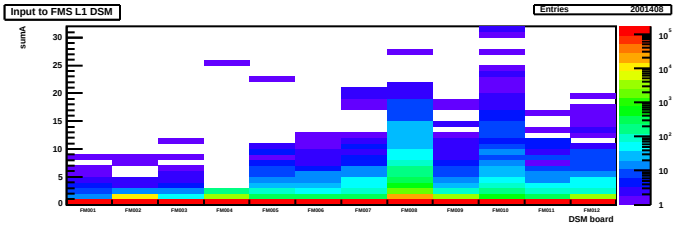

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

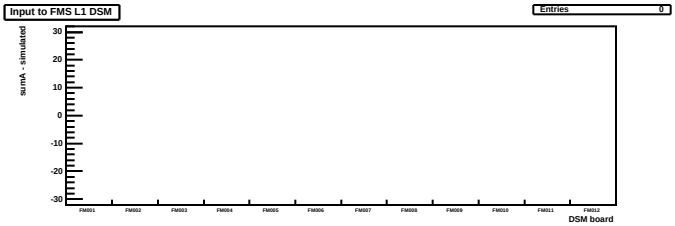

Input to FMS L1 DSM
Entries 2001408
sumB
DSM board

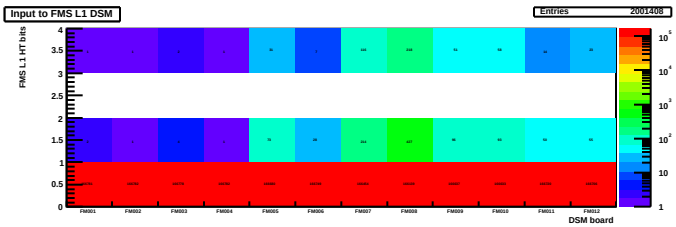

Input to FMS L1 DSM
Entries 24
sumB - simulated
DSM board

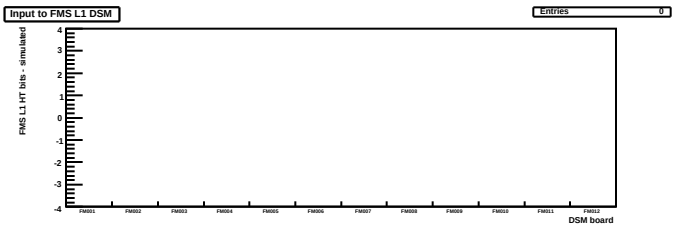

Input to FMS L1 DSM
Entries 2001408
sumAB
DSM board

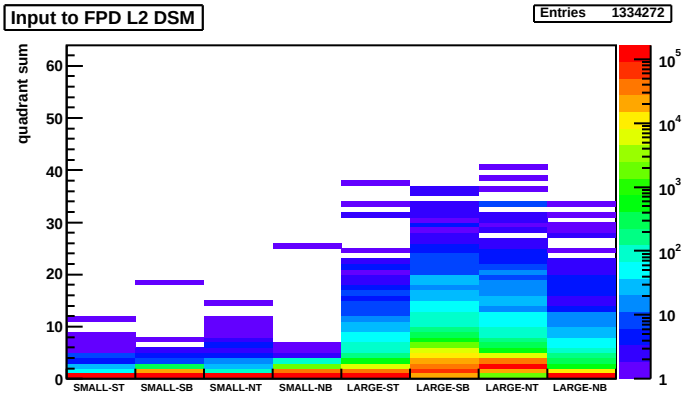

Input to FMS L1 DSM
Entries 227
sumAB - simulated
DSM board

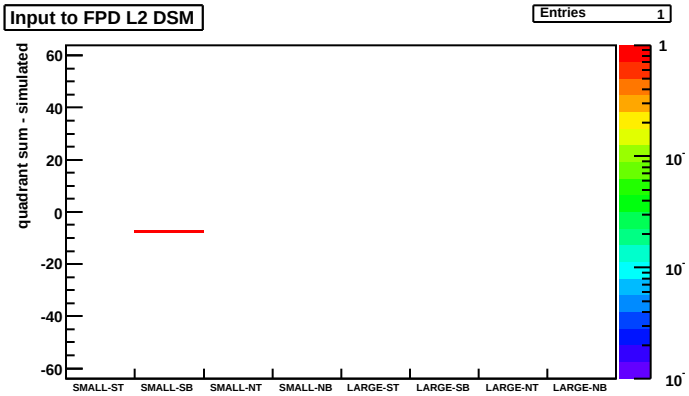

Input to FMS L1 DSM
Entries 2001408
sumA
DSM board

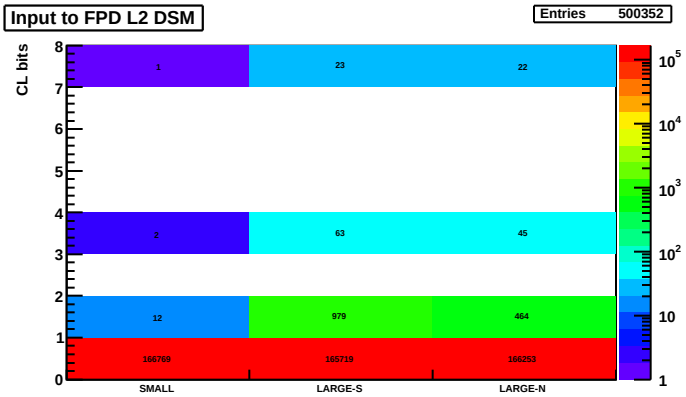

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

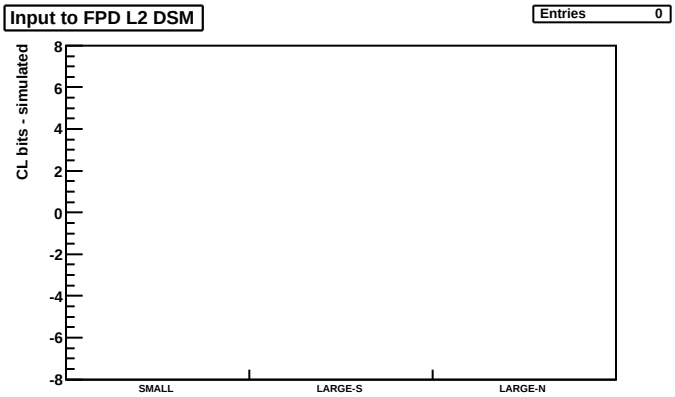

Input to FMS L1 DSM
Entries 2001408
FMS L1 HT bits
DSM board

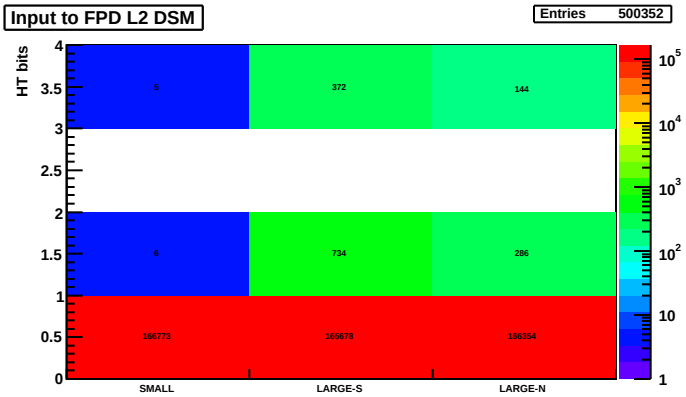

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

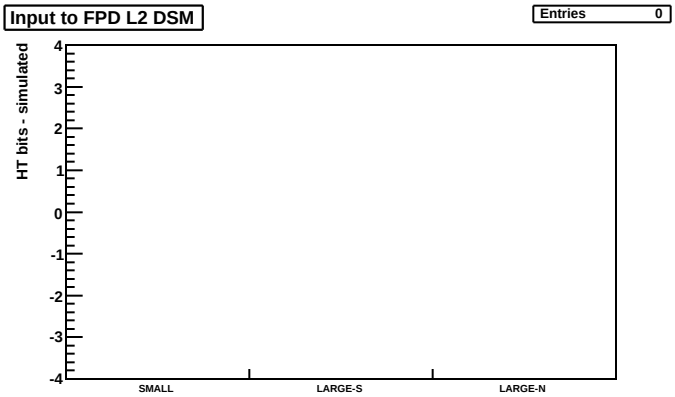

Input to FPD L2 DSM
Entries 1334272
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

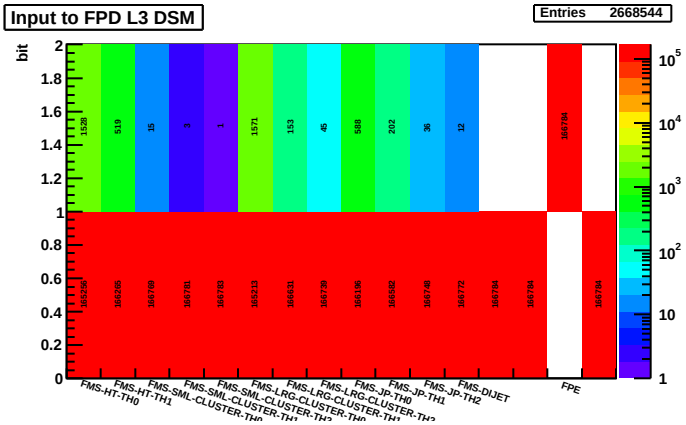

Input to FPD L2 DSM
Entries 1
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

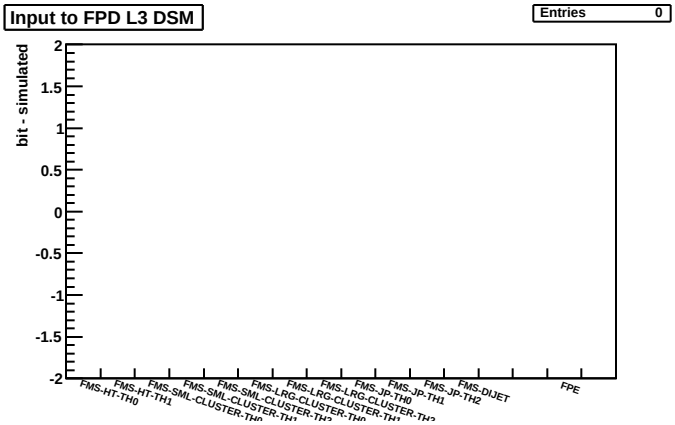

Input to FPD L2 DSM
Entries 500352
CL bits
SMALL
LARGE-S
LARGE-N

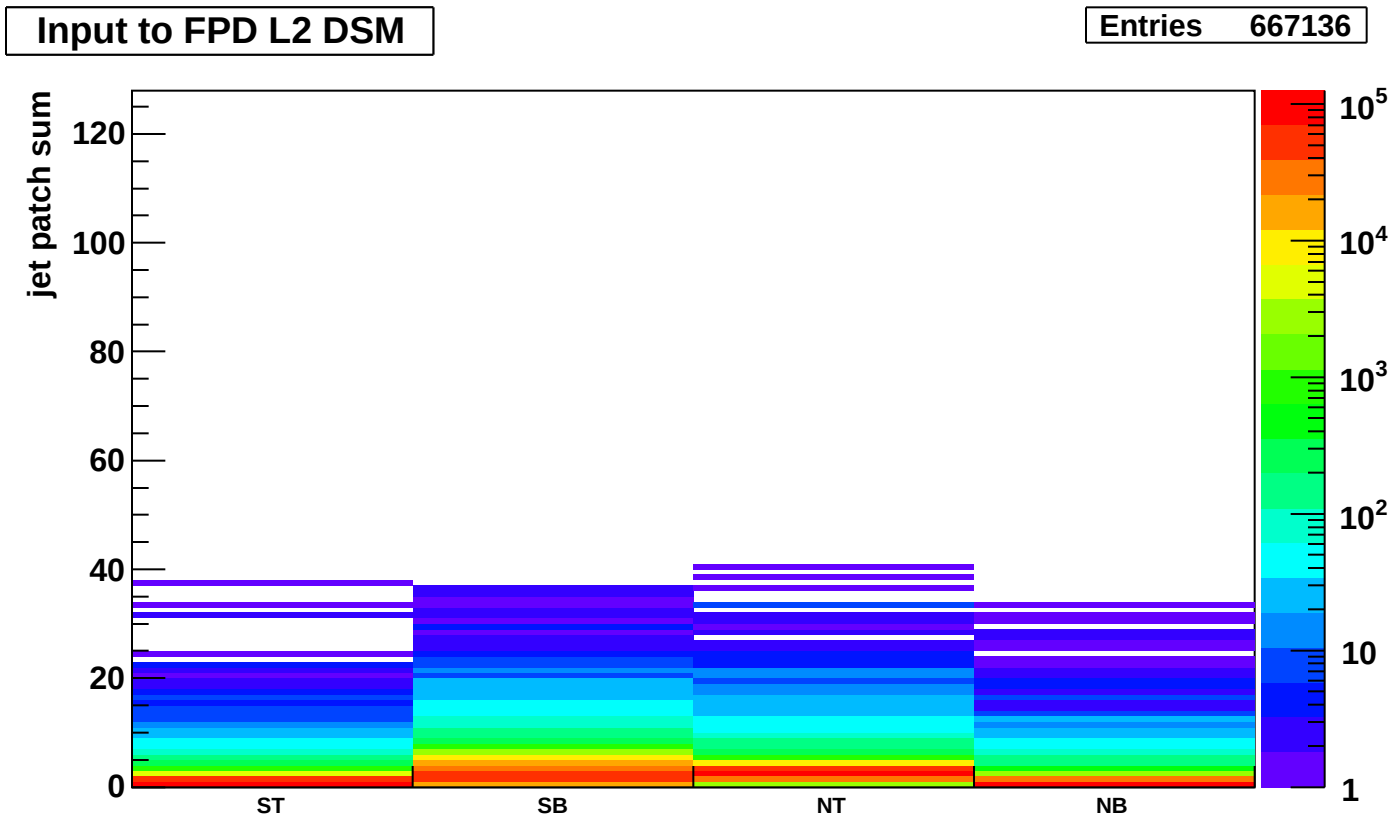

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

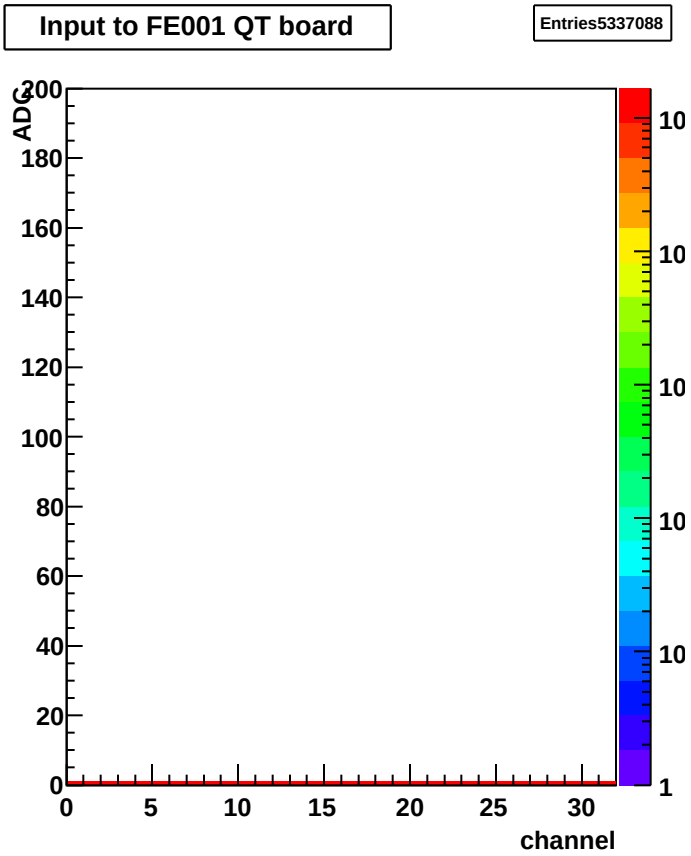

Input to FPD L2 DSM
Entries 500352
HT bits
SMALL
LARGE-S
LARGE-N

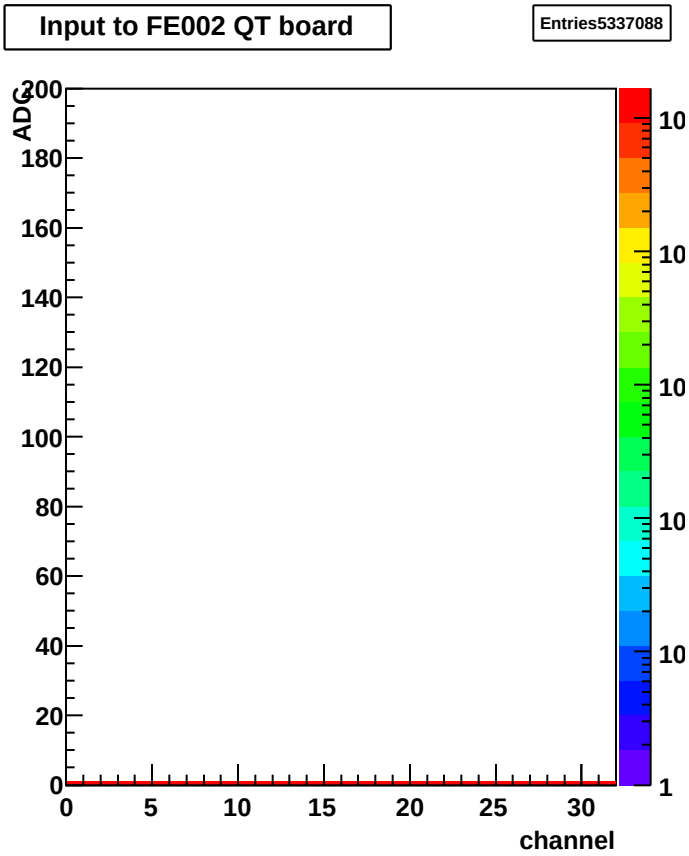

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

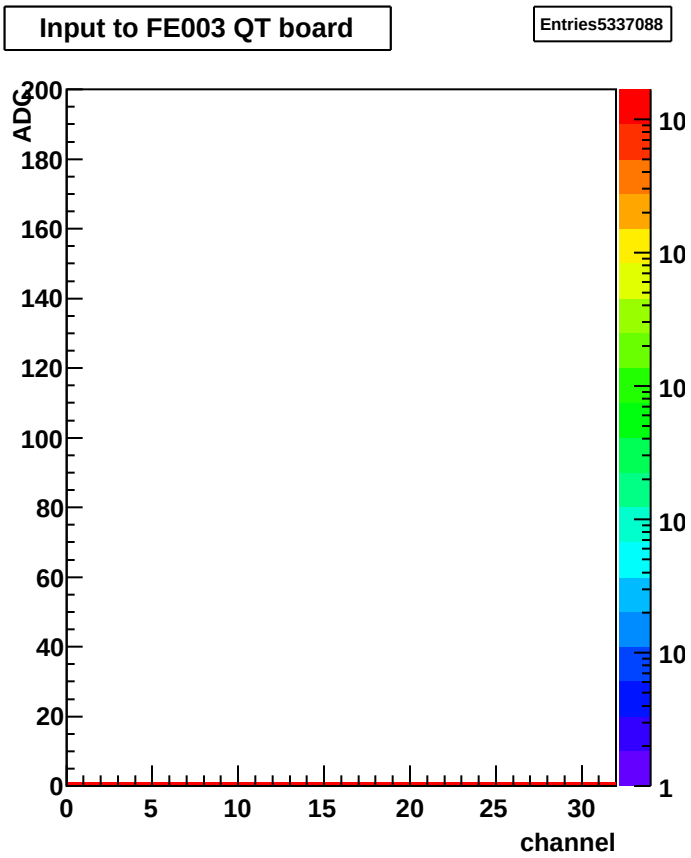

Input to FPD L3 DSM
Entries 2668544
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

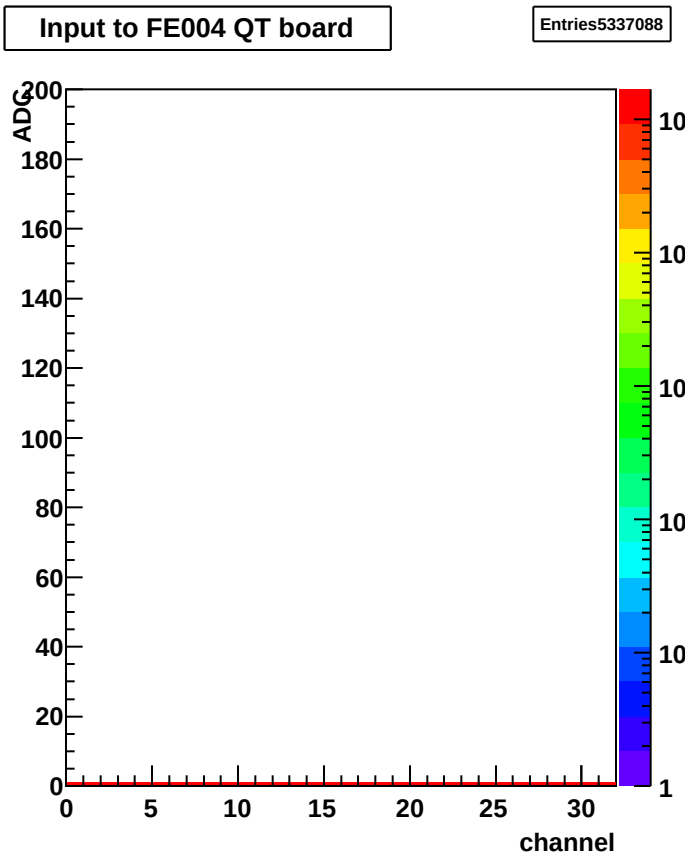

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

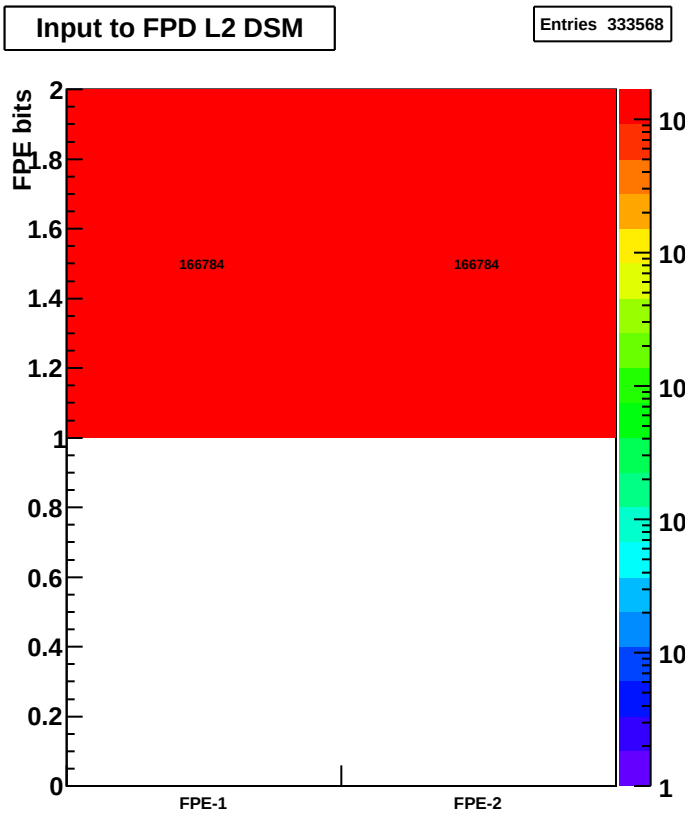

Input to FPD L2 DSM
Entries 667136
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

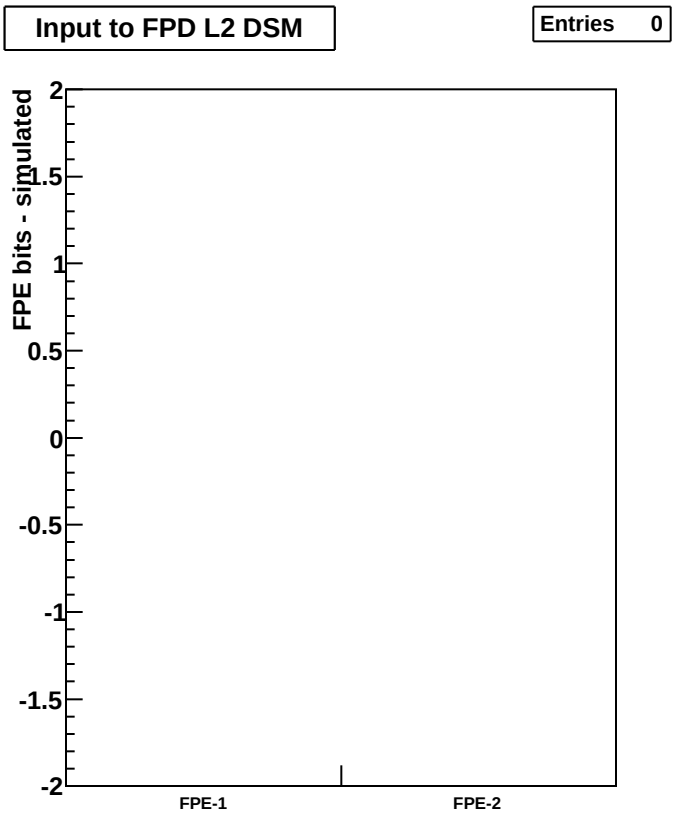

Input to FE001 QT board
Entries5337088
ADC
channel


Input to FE002 QT board
Entries5337088
ADC
channel


Input to FE003 QT board
Entries5337088
ADC
channel


Input to FE004 QT board
Entries5337088
ADC
channel


Input to FPD L2 DSM
Entries 333568
FPE bits
166784
166784
FPE-1
FPE-2


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
FPE-1
FPE-2