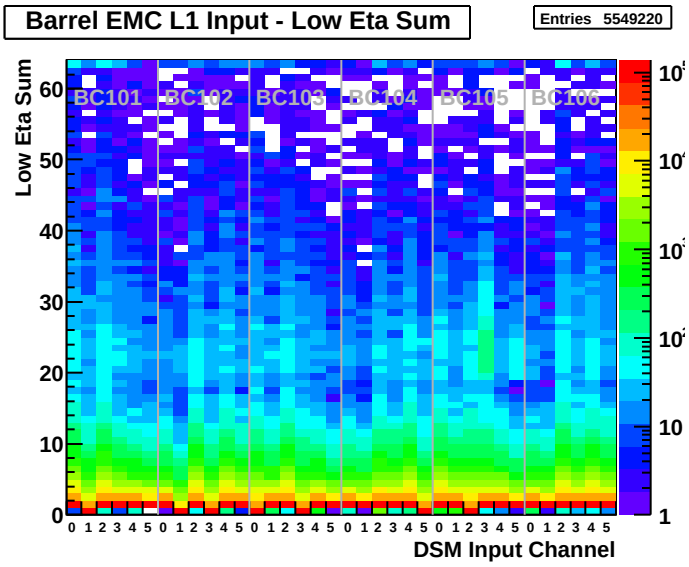
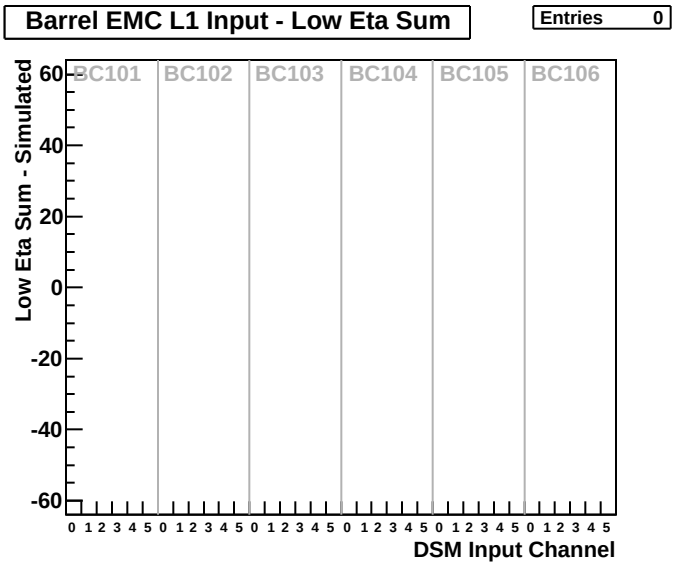
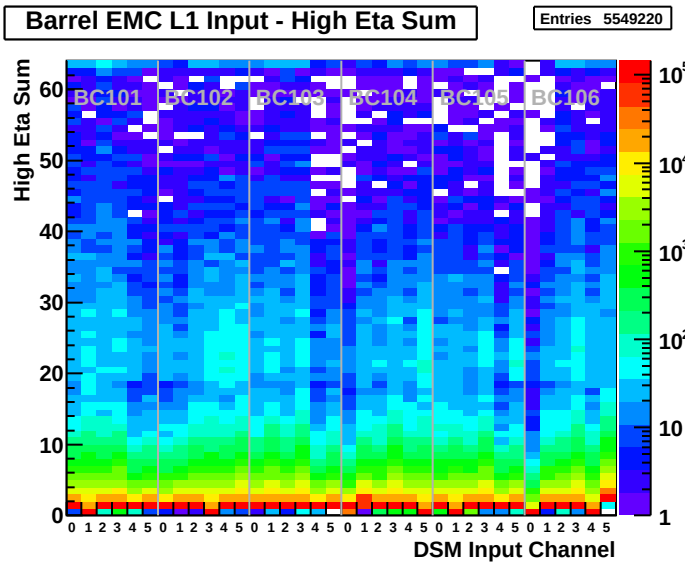
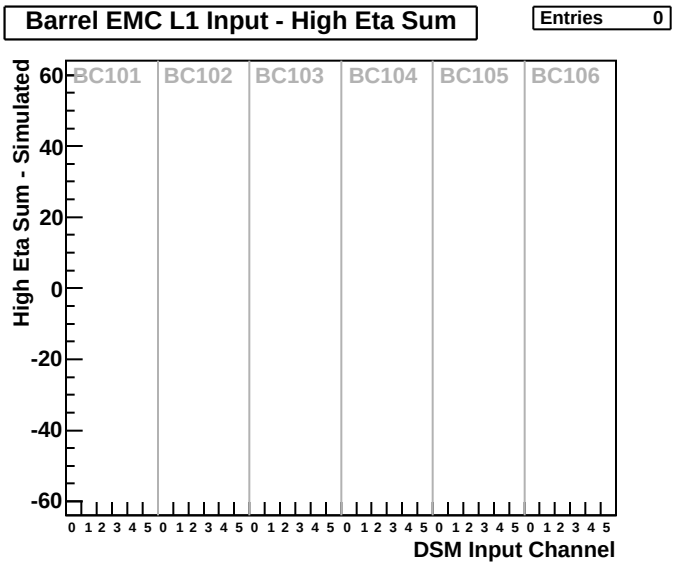
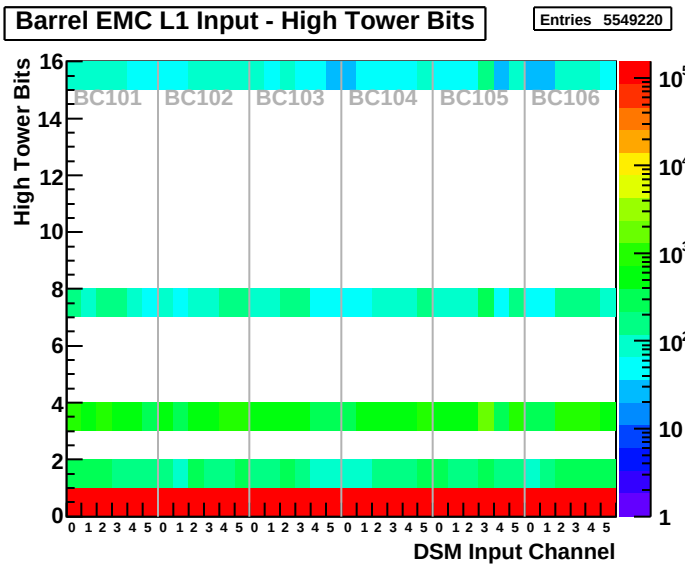
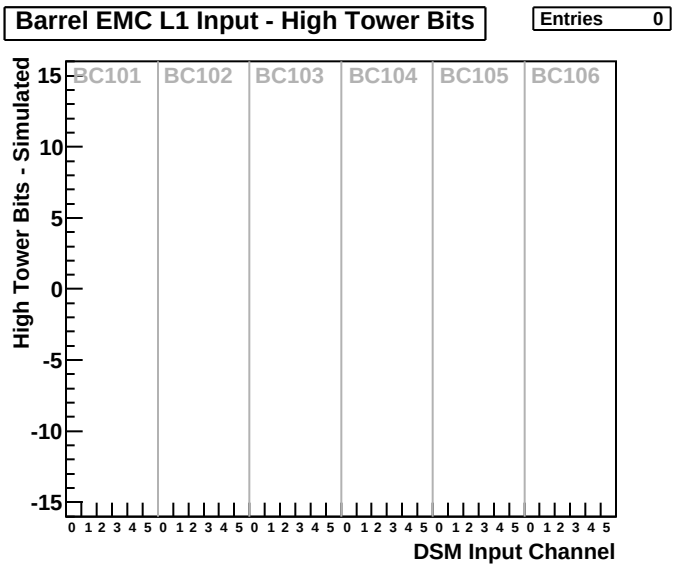

Barrel EMC L1 Input - Low Eta Sum
Entries 5549220
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

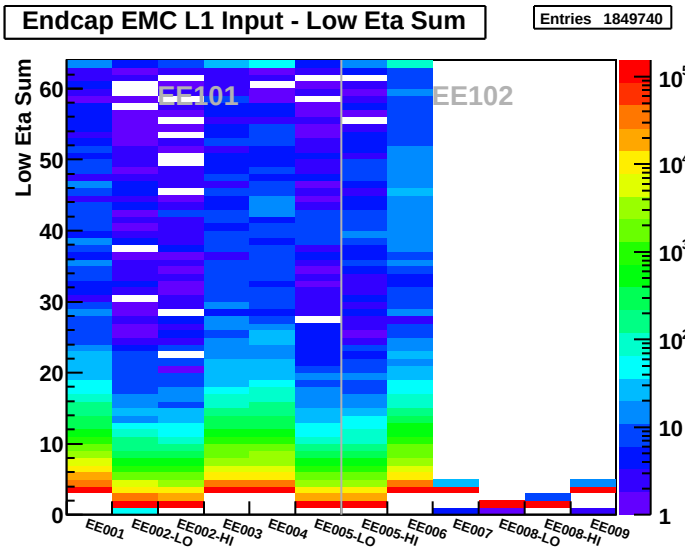

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

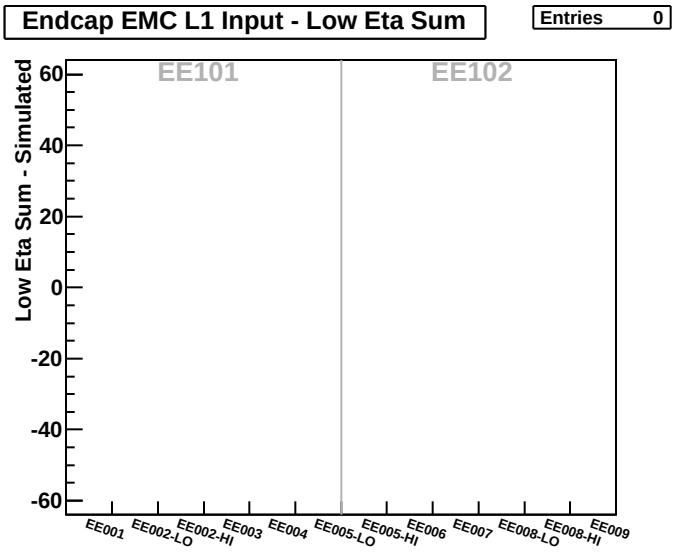

Barrel EMC L1 Input - High Eta Sum
Entries 5549220
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

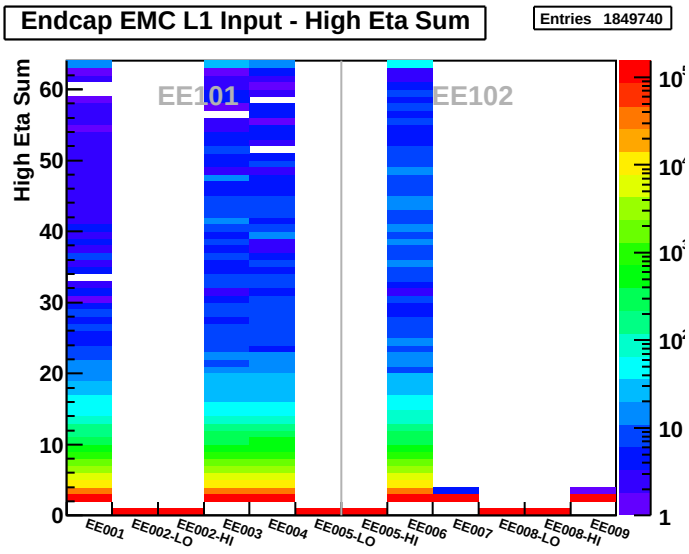

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

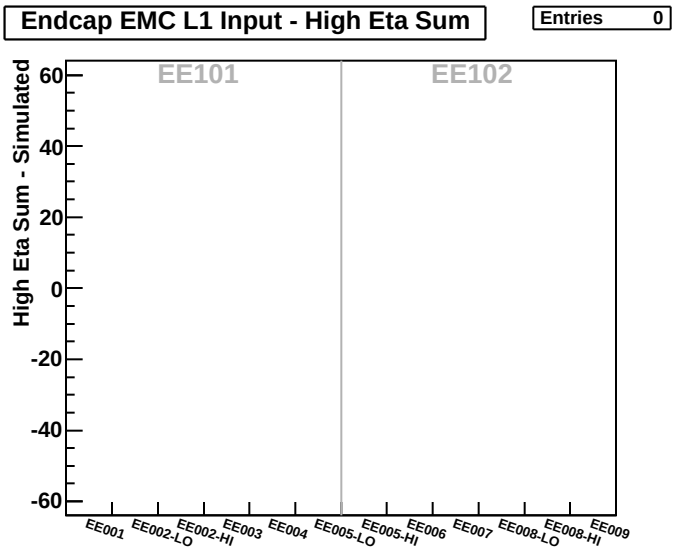

Barrel EMC L1 Input - High Tower Bits
Entries 5549220
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

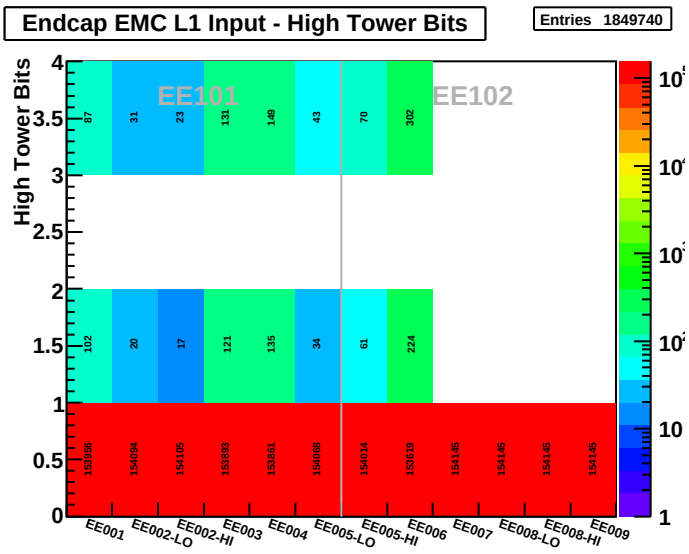

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

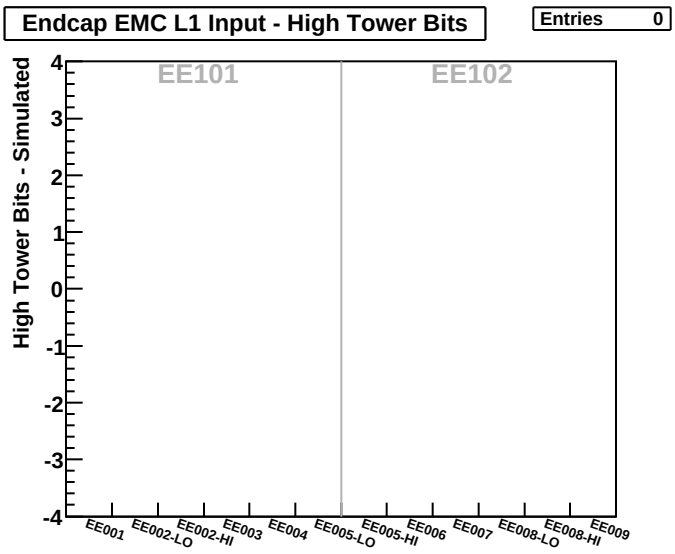

Endcap EMC L1 Input - Low Eta Sum
Entries 1849740
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

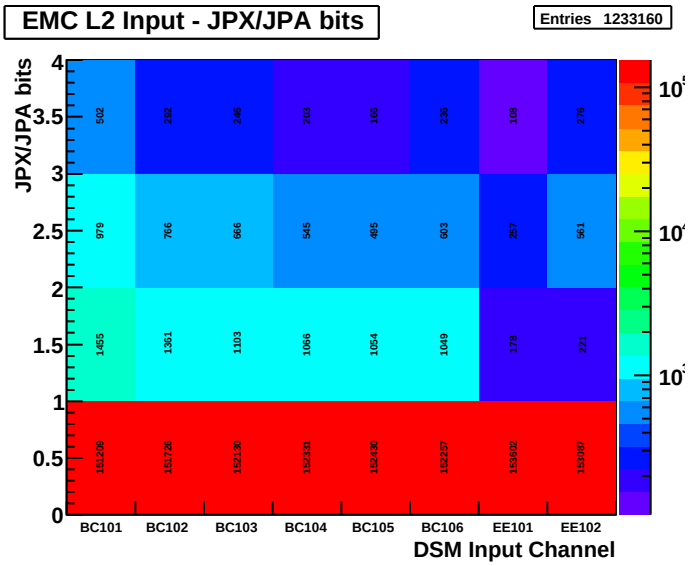

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

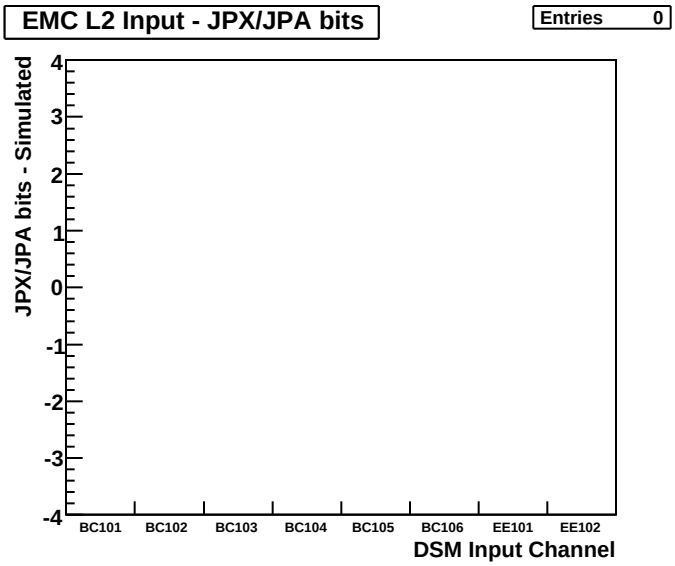

Endcap EMC L1 Input - High Eta Sum
Entries 1849740
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

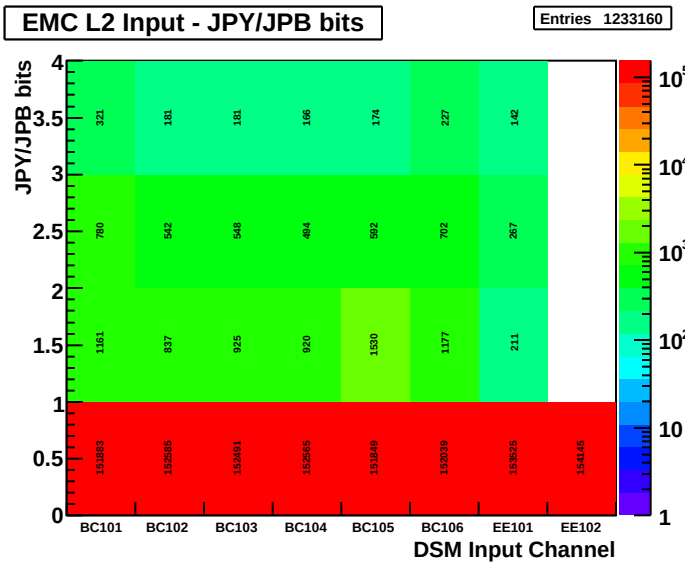

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

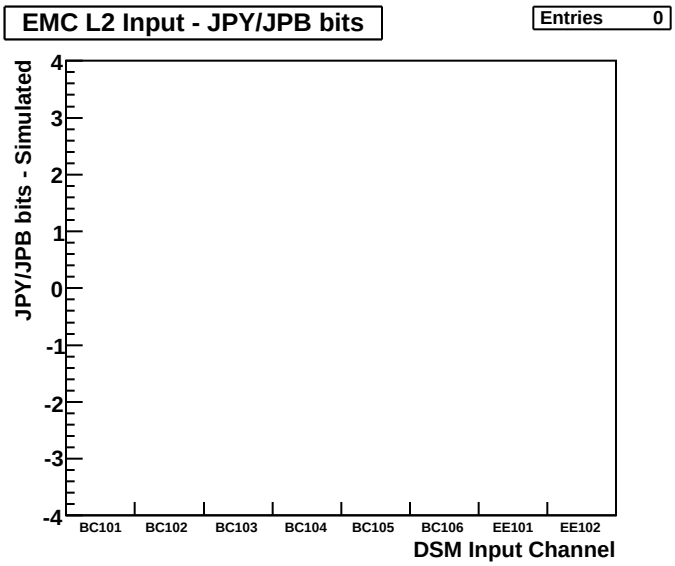

Endcap EMC L1 Input - High Tower Bits
Entries 1849740
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

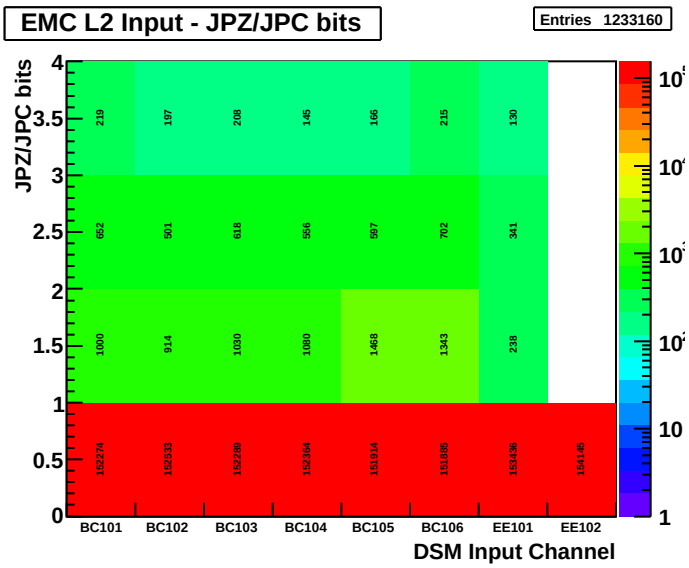

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

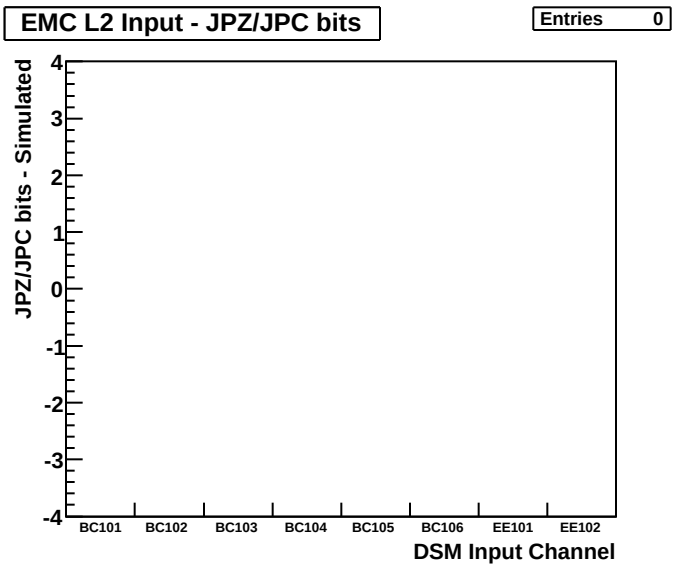

EMC L2 Input - JPX/JPA bits
Entries 1233160
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
502 292 246 203 166 236 108 276
979 766 666 545 495 603 257 561
1455 1361 1103 1066 1054 1049 176 221
151209 151726 152130 152331 152430 152257 153602 153087

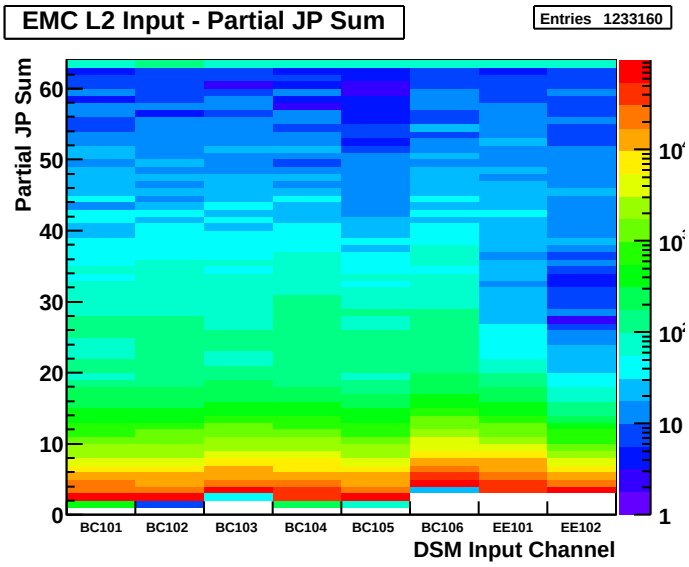

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

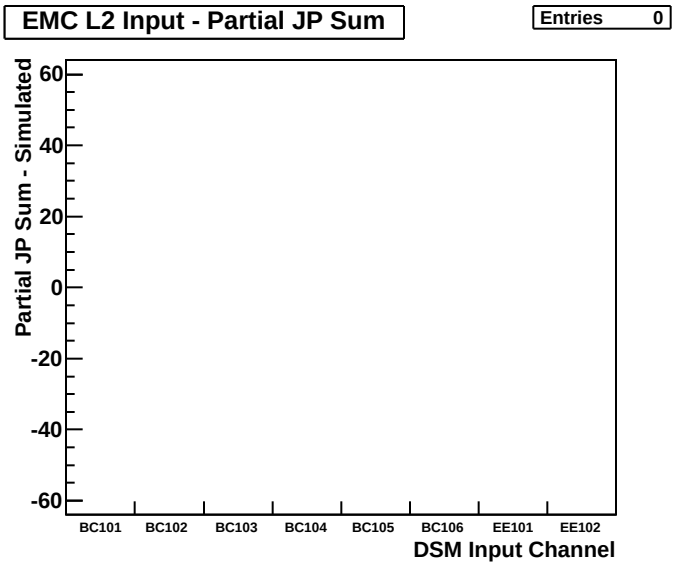

EMC L2 Input - JPY/JPB bits
Entries 1233160
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
321 181 181 166 174 227 142
780 542 548 494 592 702 267
1161 837 925 920 1530 1177 211
151883 152585 152491 152565 151849 152039 153525 154145

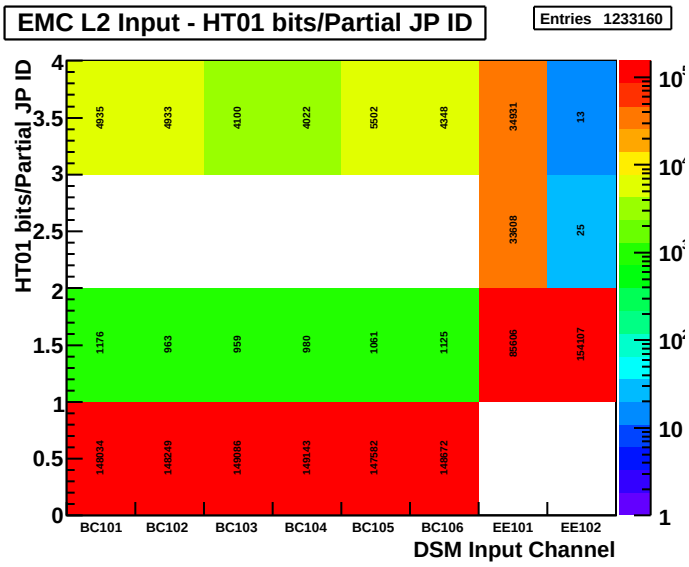

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

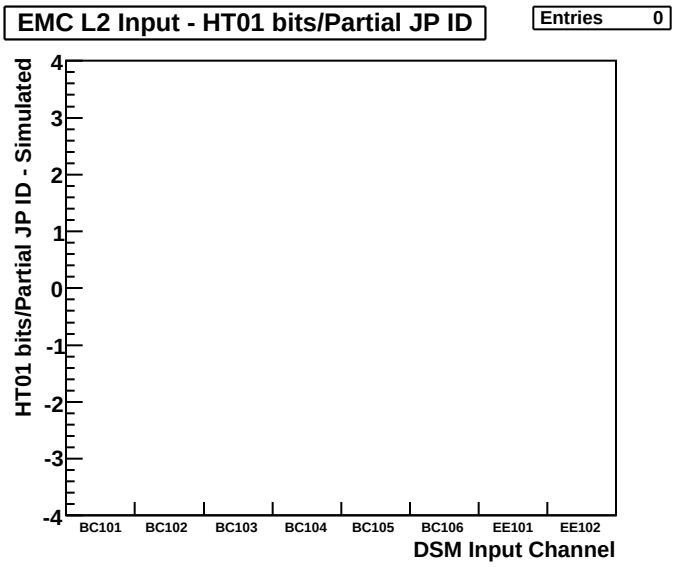

EMC L2 Input - JPZ/JPC bits
Entries 1233160
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
219 197 208 145 166 215 130
652 501 618 556 597 702 341
1000 914 1030 1080 1468 1343 238
152274 152533 152289 152364 151914 151885 153436 154145

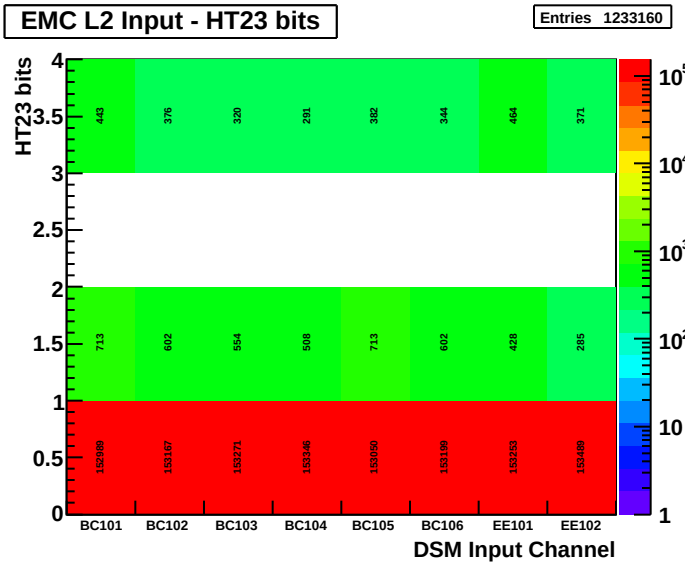

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

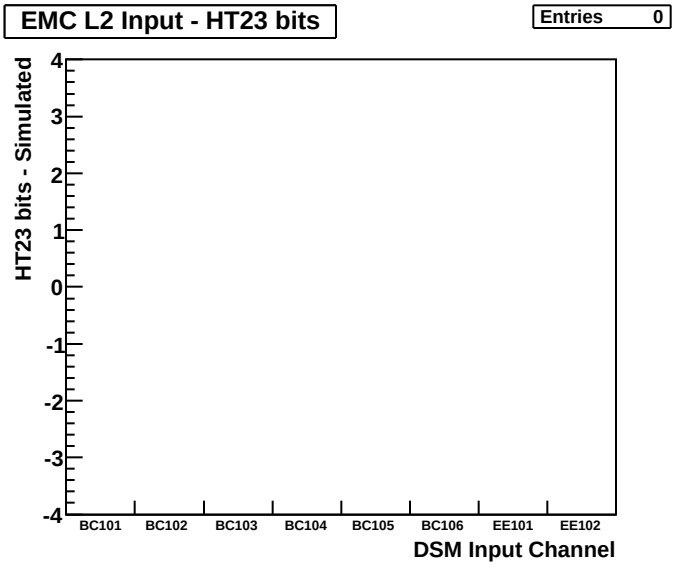

EMC L2 Input - Partial JP Sum
Entries 1233160
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

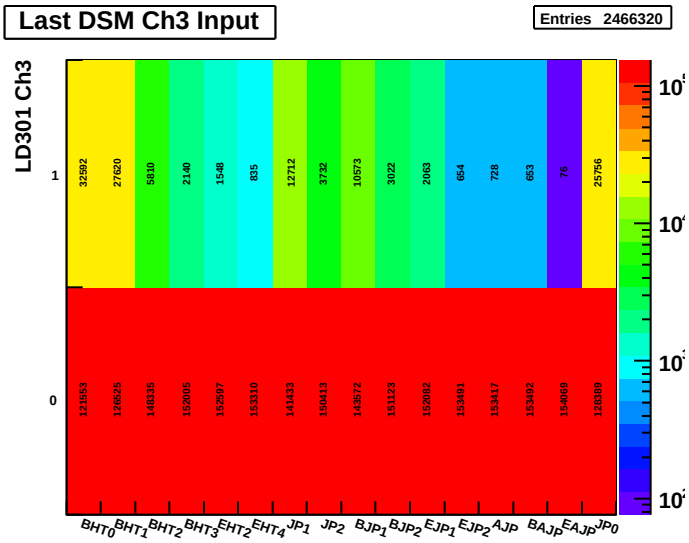

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

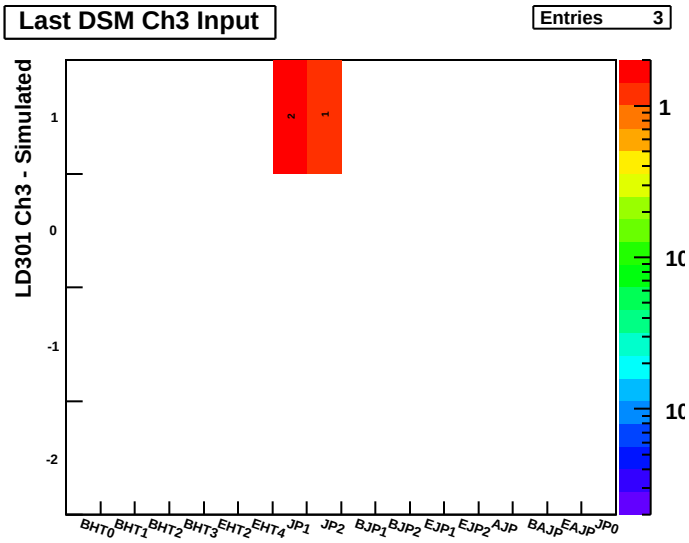

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1233160
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

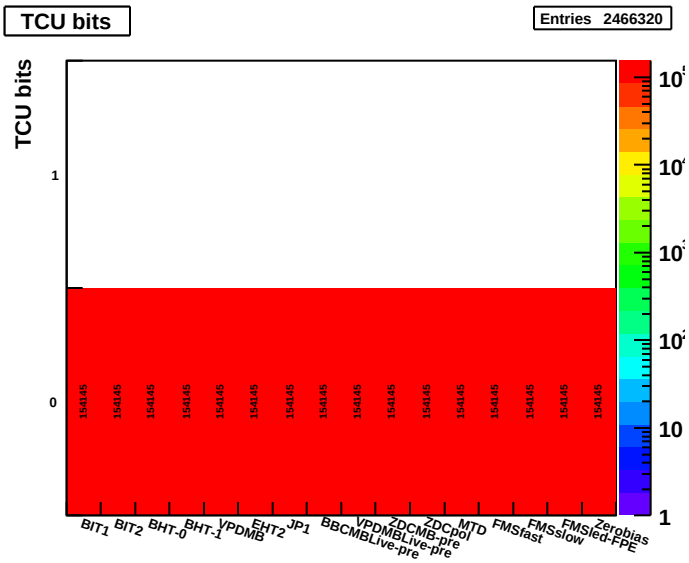

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

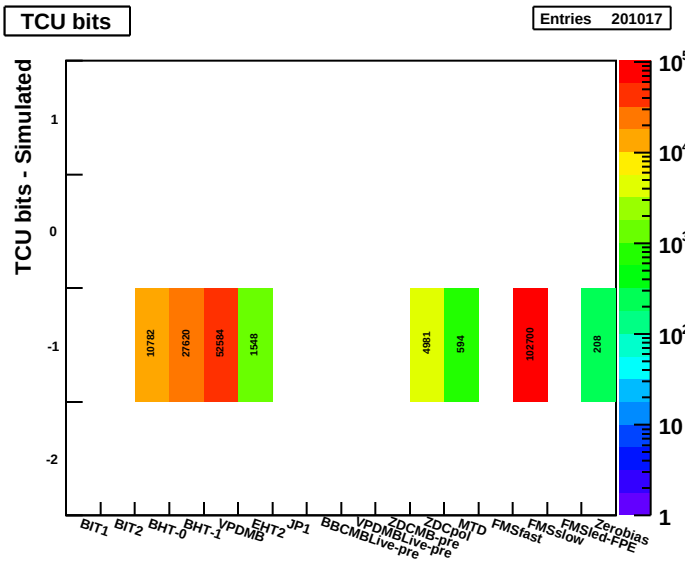

EMC L2 Input - HT23 bits
Entries 1233160
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

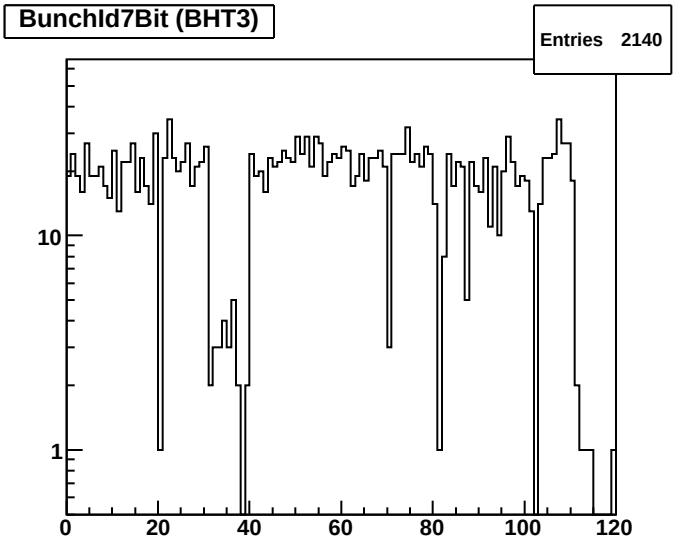

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

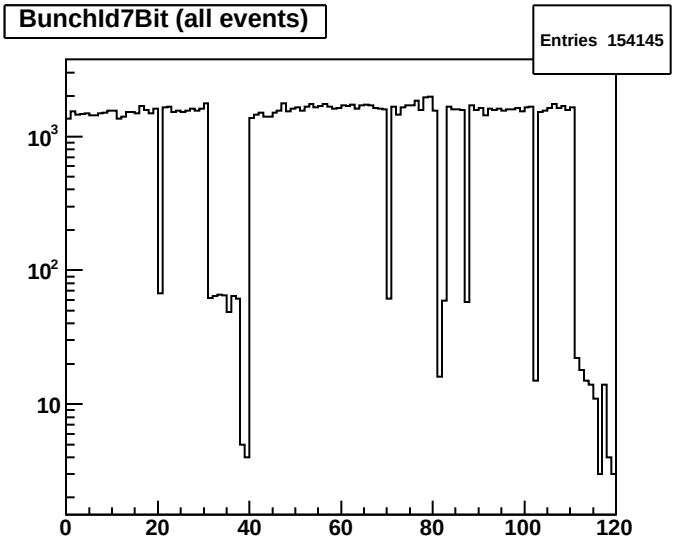

Last DSM Ch3 Input
Entries 2466320
LD301 Ch3
32592 27620 5810 2140 1548 835 12712 3732 10573 3022 2063 654 728 653 76 25756
121553 126525 148335 152005 152597 153310 141433 150413 143572 151123 152082 153491 153417 153492 154069 128389
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

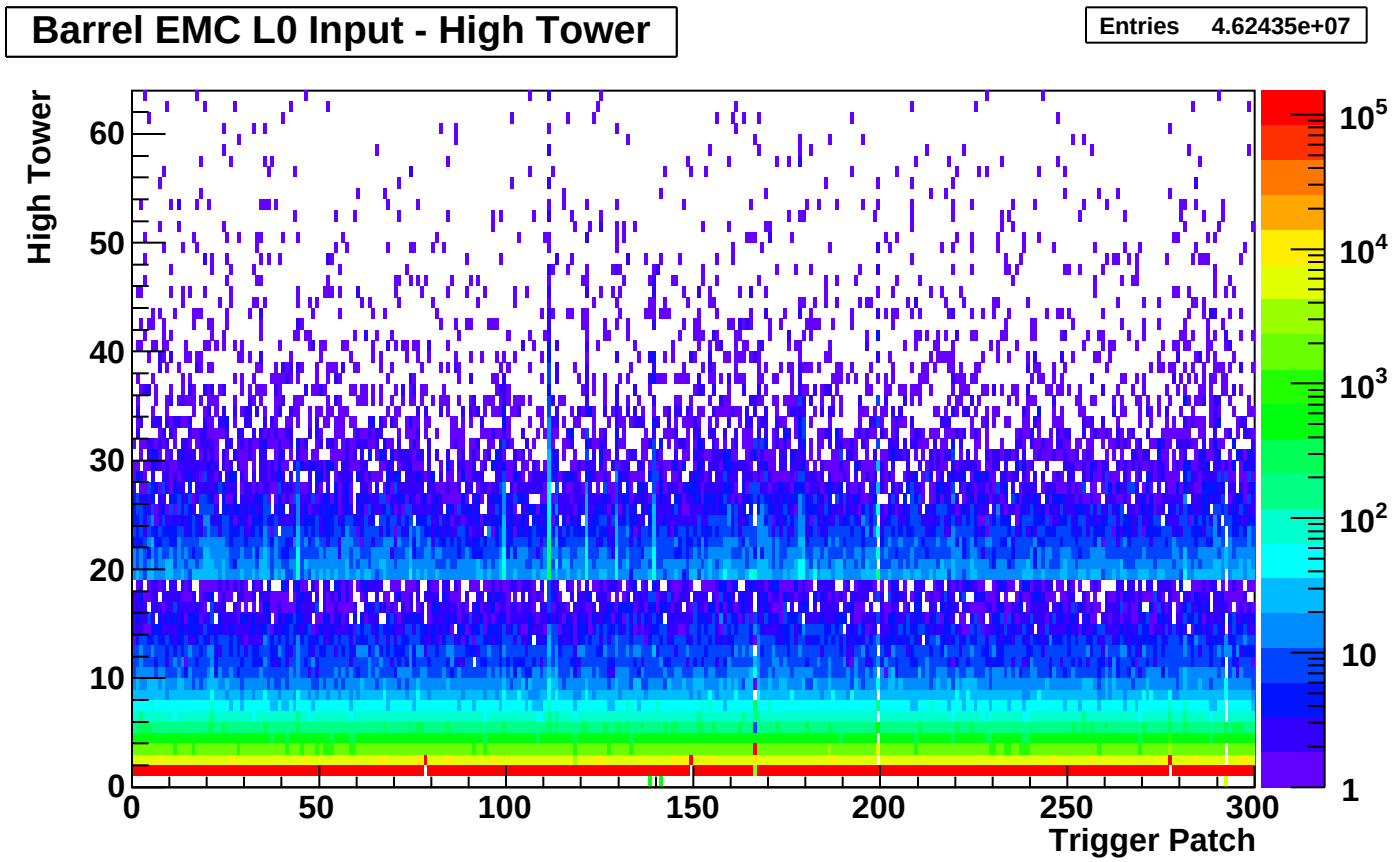

Last DSM Ch3 Input
Entries 3
LD301 Ch3 - Simulated
2 1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

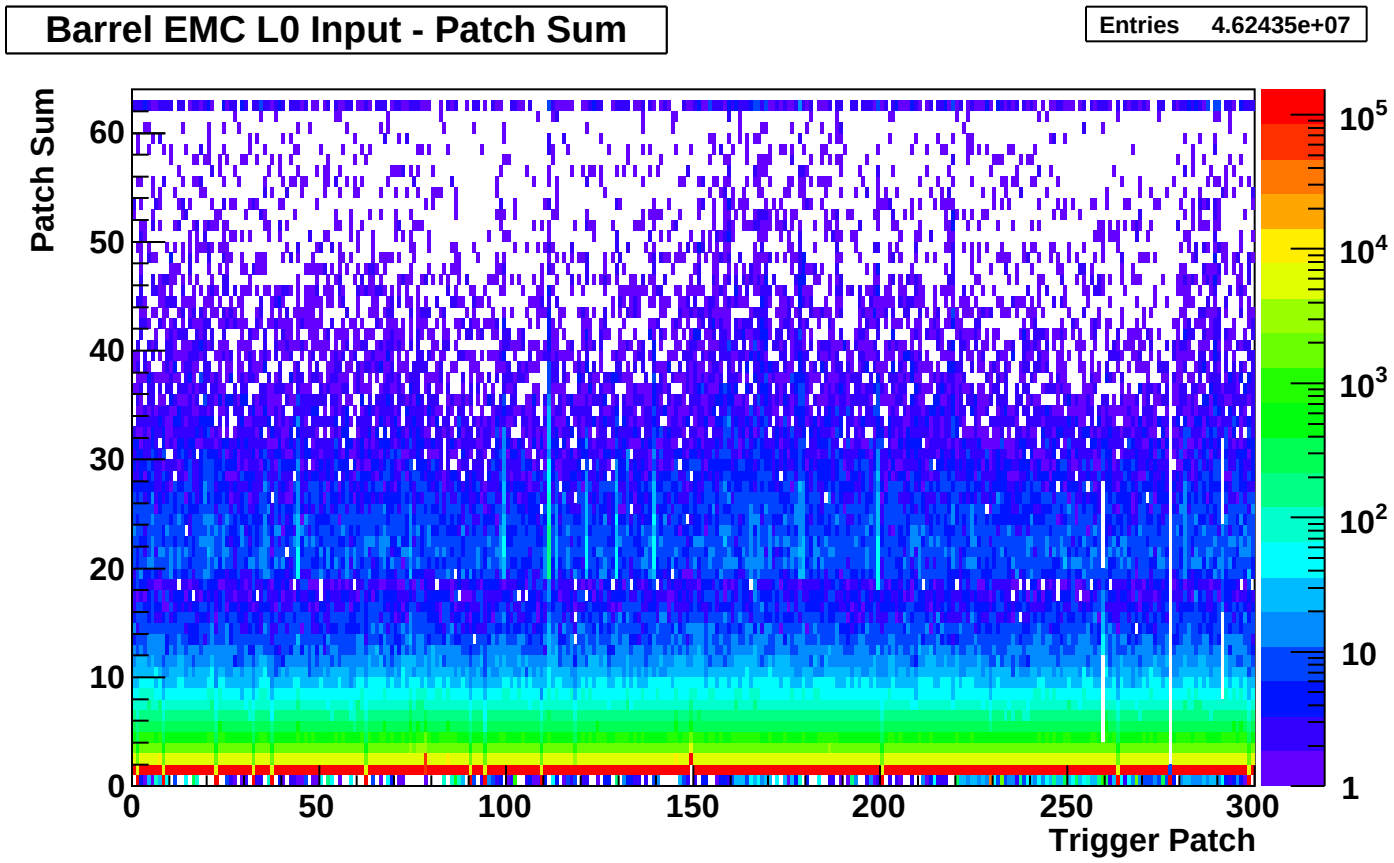

TCU bits
Entries 2466320
TCU bits
154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145 154145
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDC-pol MTD FMSfast FMSslow FMSled-FPE Zerobias

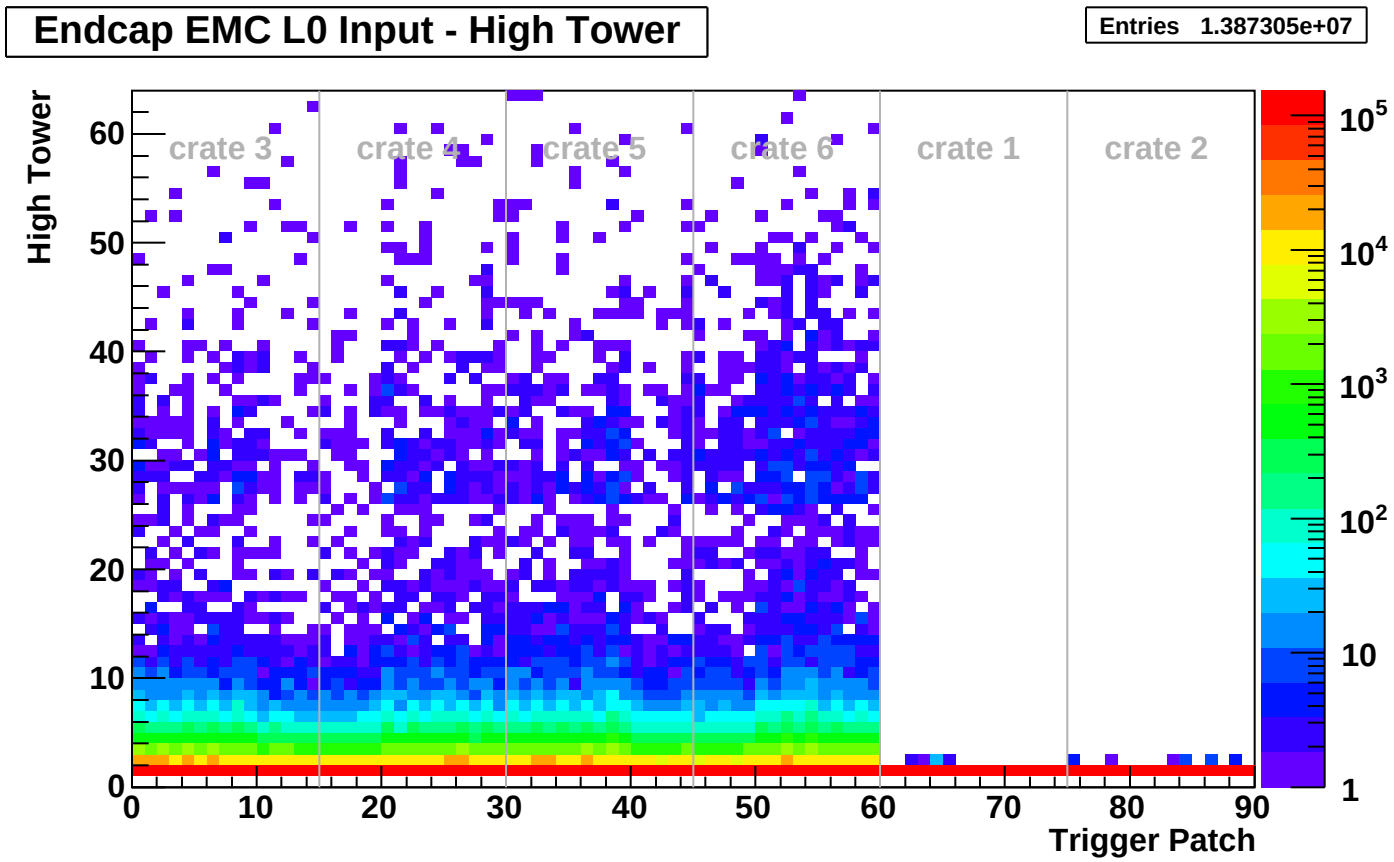

TCU bits
Entries 201017
TCU bits - Simulated
10782 27620 52584 1548 4981 594 102700 208
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDC-pol MTD FMSfast FMSslow FMSled-FPE Zerobias

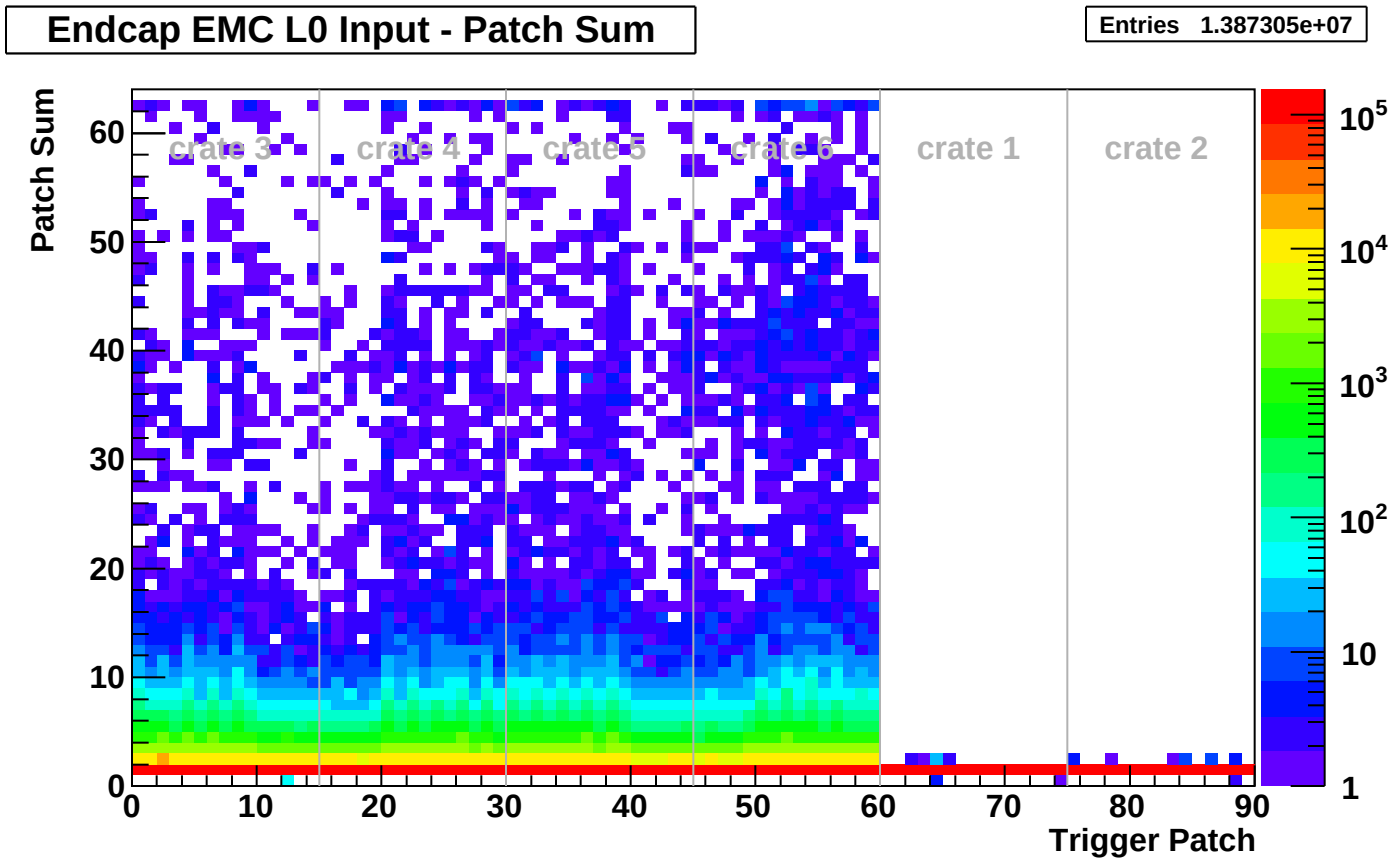

BunchId7Bit (BHT3)
Entries 2140

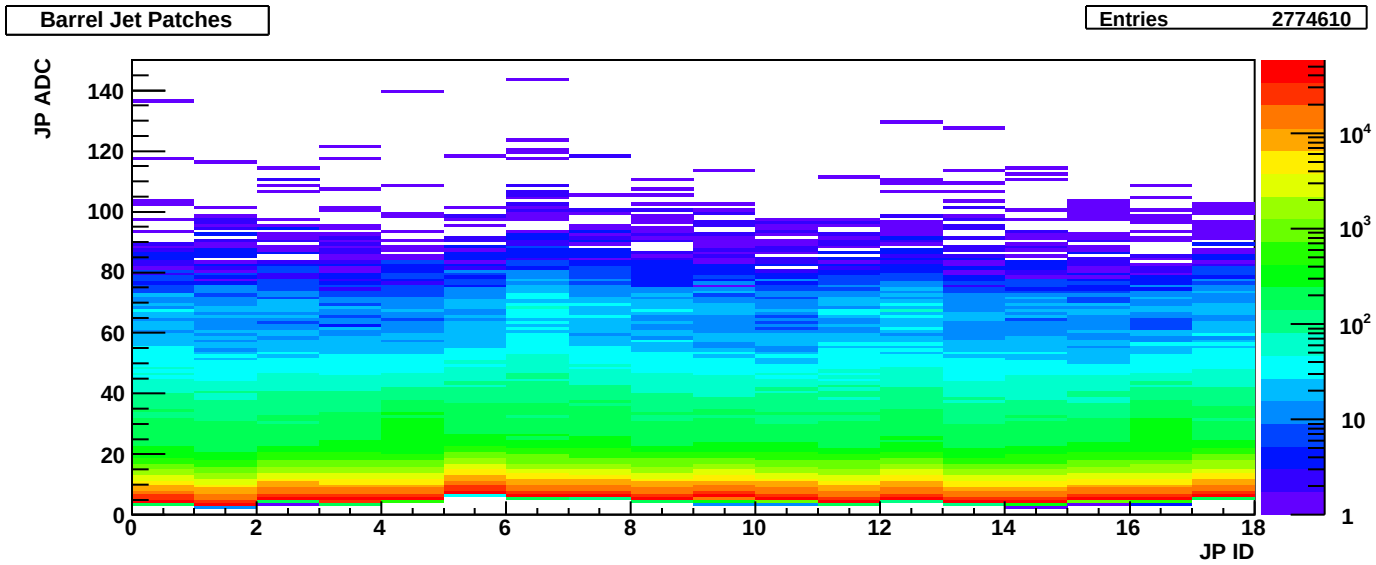

BunchId7Bit (all events)
Entries 154145

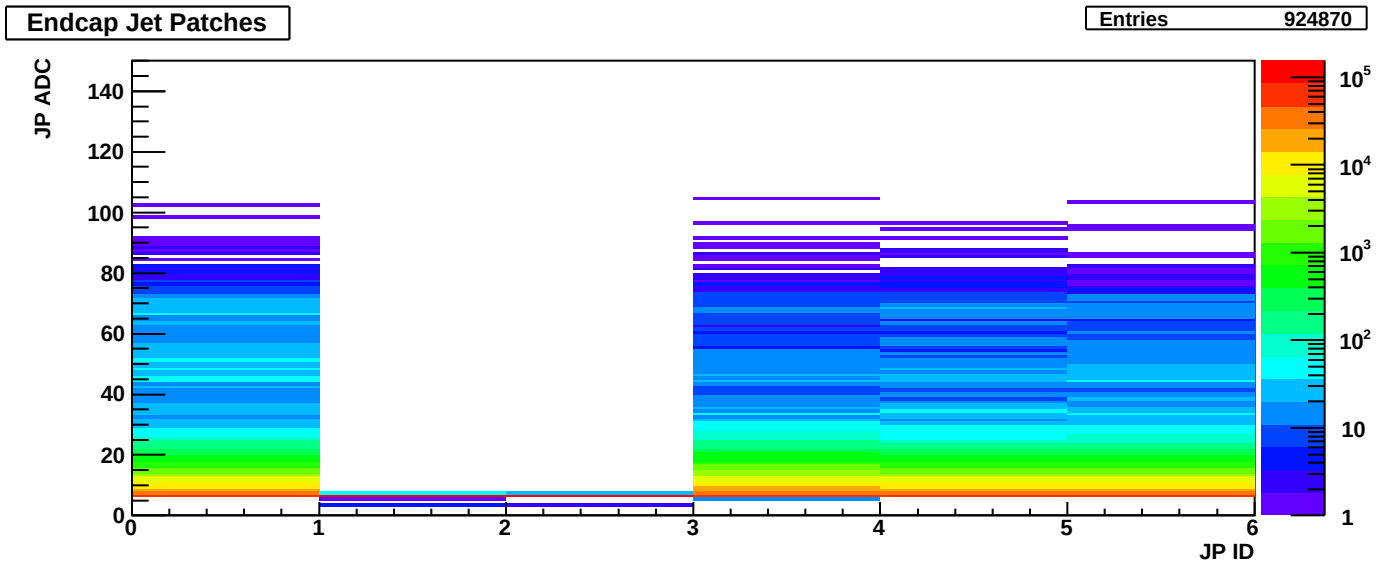

Barrel EMC L0 Input - High Tower
Entries 4.62435e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

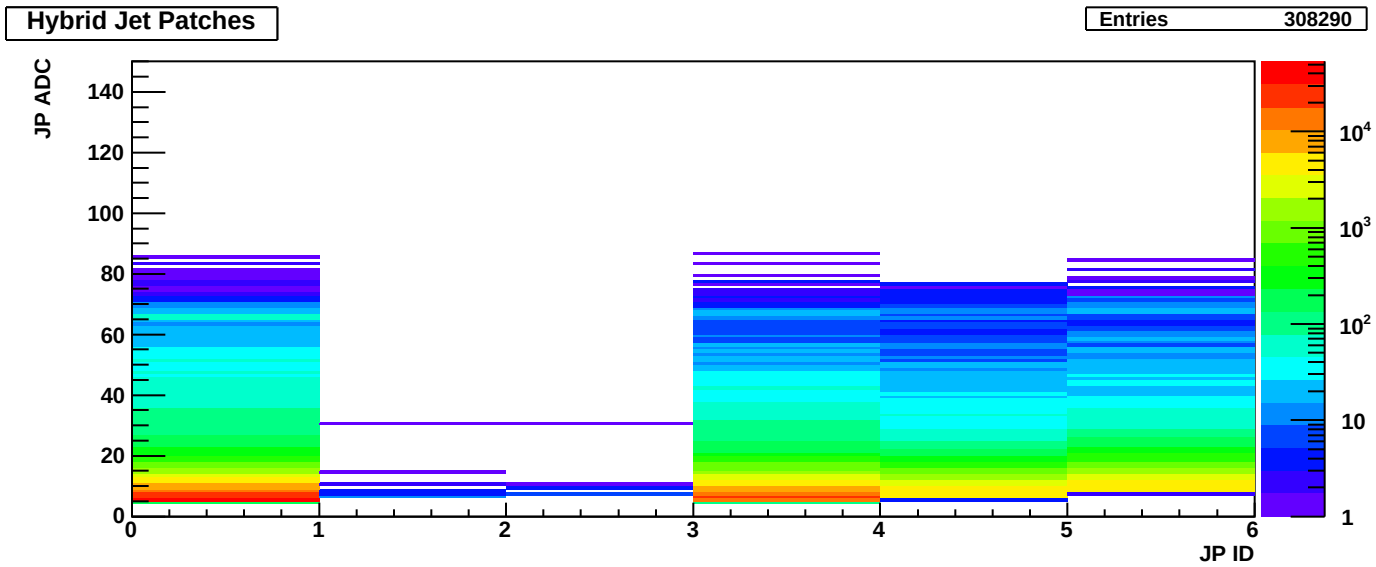

Barrel EMC L0 Input - Patch Sum
Entries 4.62435e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

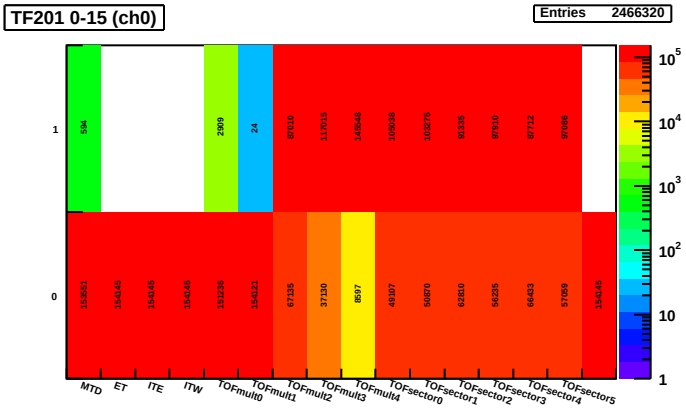

Endcap EMC L0 Input - High Tower
Entries 1.387305e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

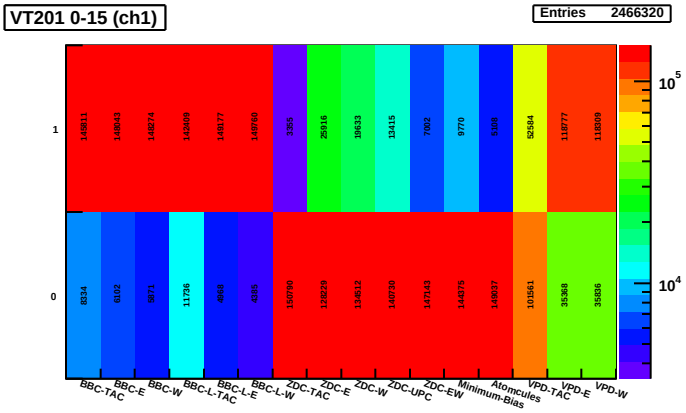

Endcap EMC L0 Input - Patch Sum
Entries 1.387305e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

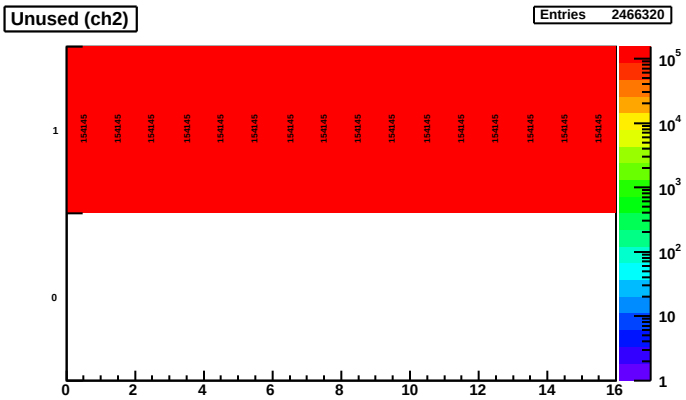

Barrel Jet Patches
Entries 2774610
JP ADC
JP ID

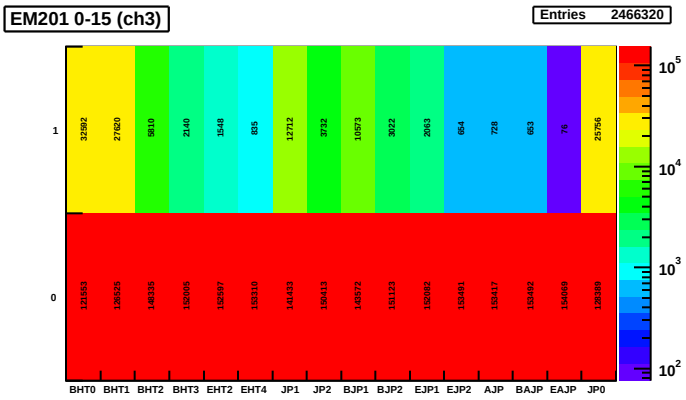

Endcap Jet Patches
Entries 924870
JP ADC
JP ID

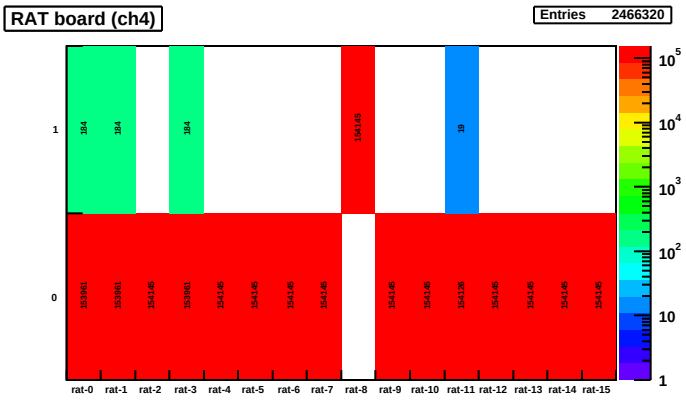

Hybrid Jet Patches
Entries 308290
JP ADC
JP ID

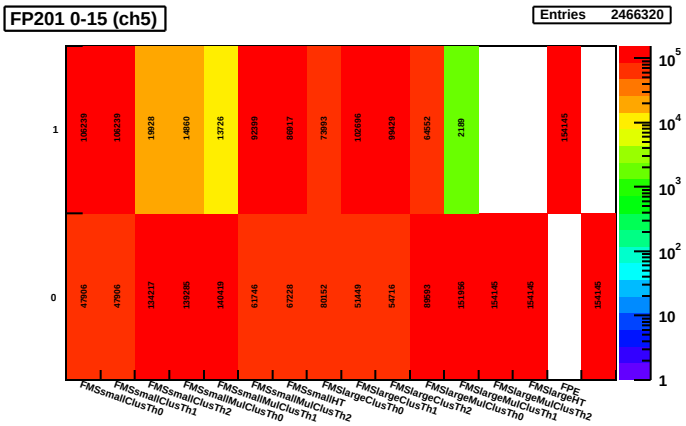

TF201 0-15 (ch0)
Entries 2466320
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

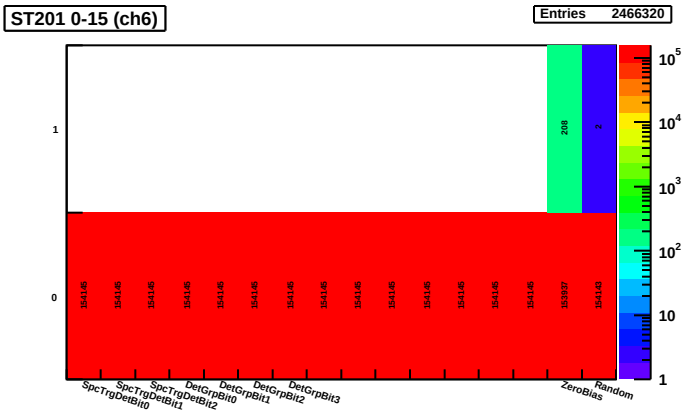

VT201 0-15 (ch1)
Entries 2466320
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

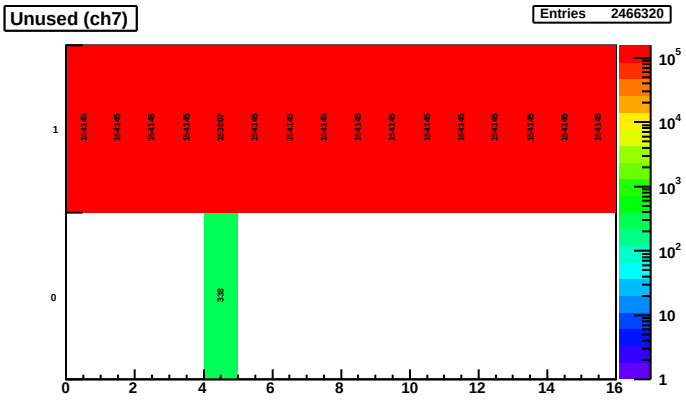

Unused (ch2)
Entries 2466320

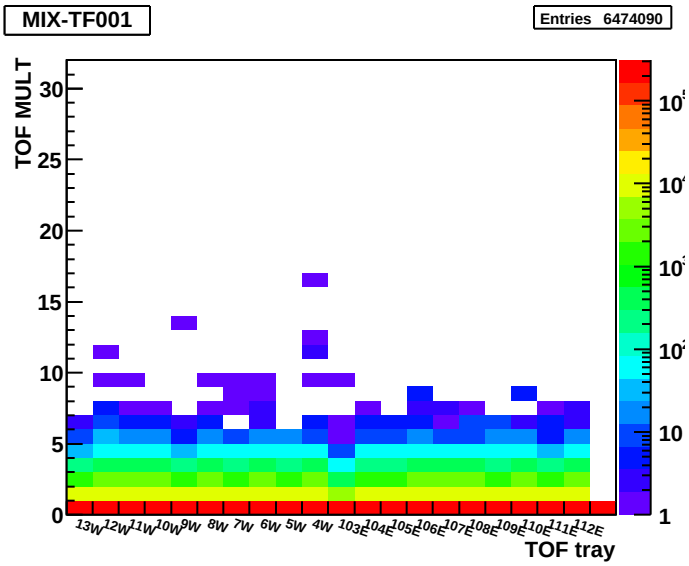

EM201 0-15 (ch3)
Entries 2466320
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

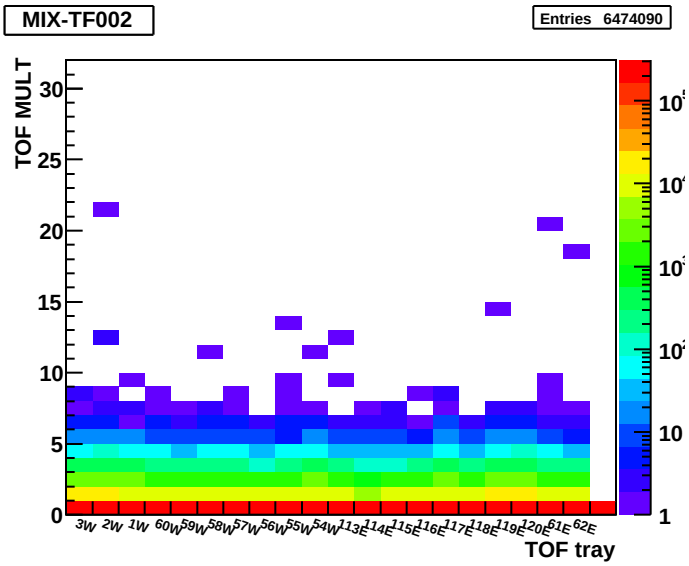

RAT board (ch4)
Entries 2466320
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

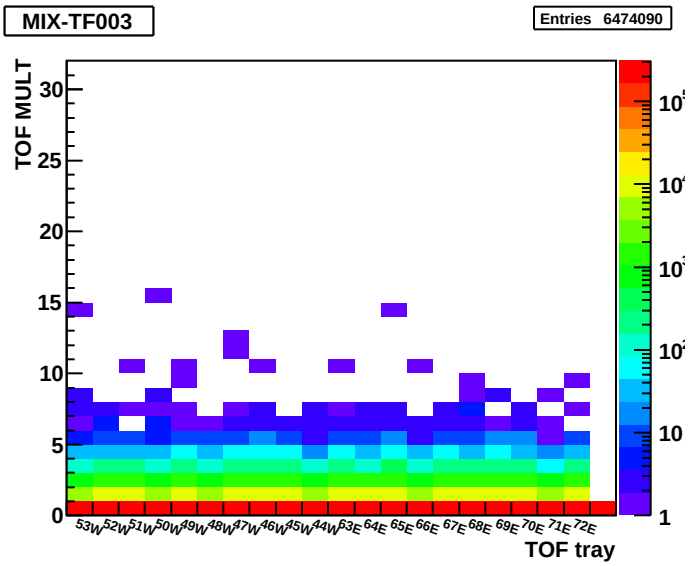

FP201 0-15 (ch5)
Entries 2466320
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

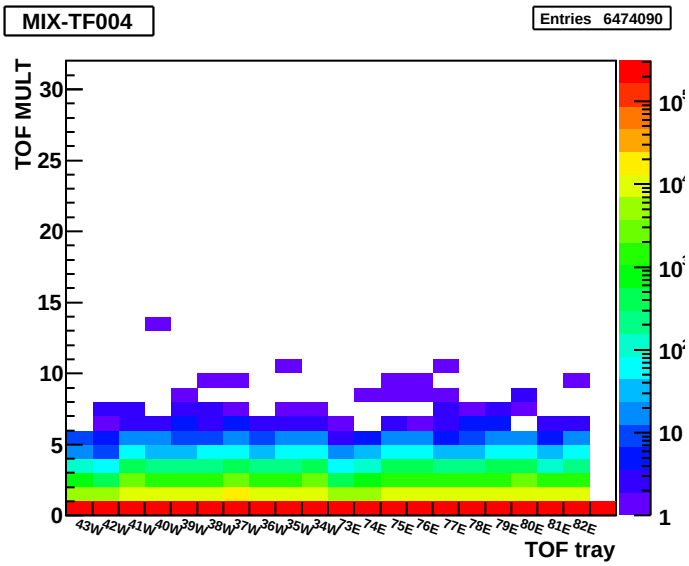

ST201 0-15 (ch6)
Entries 2466320
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

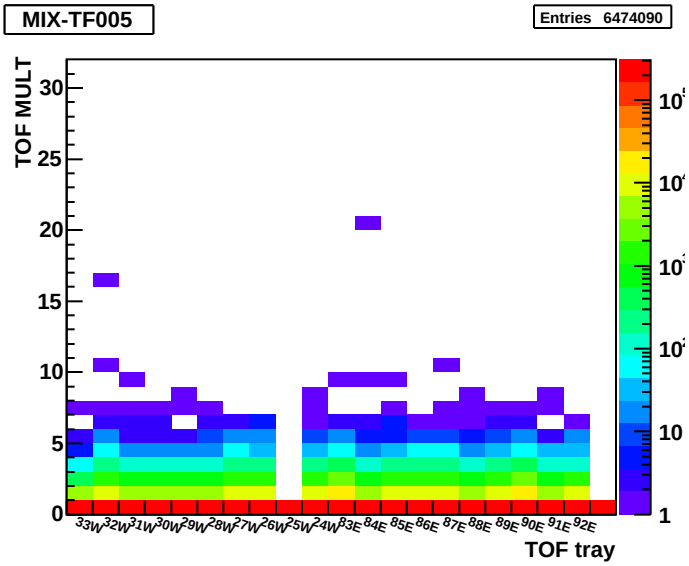

Unused (ch7)
Entries 2466320

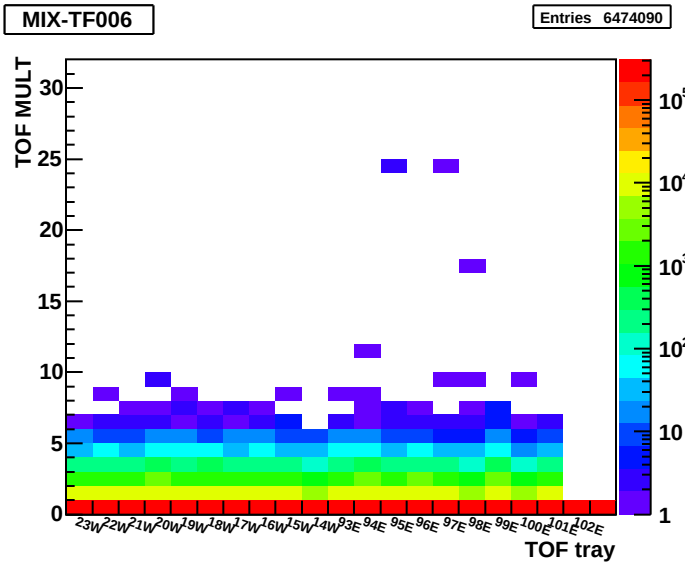

MIX-TF001
Entries 6474090
TOF MULT
TOF tray

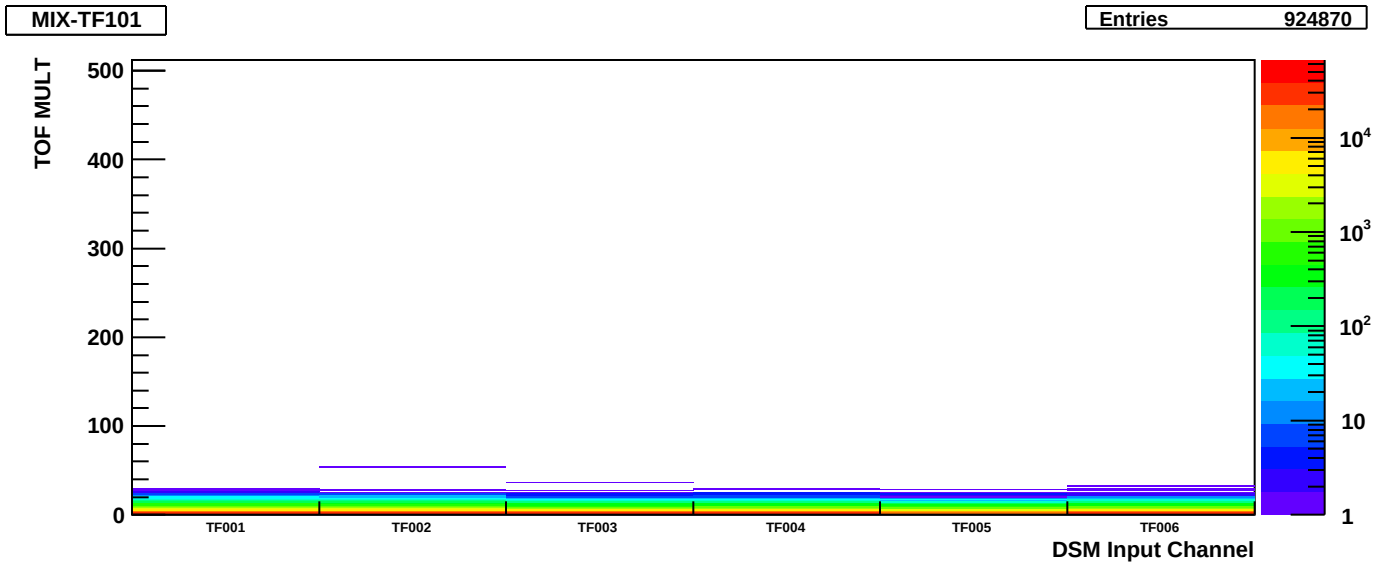

MIX-TF002
Entries 6474090
TOF MULT
TOF tray

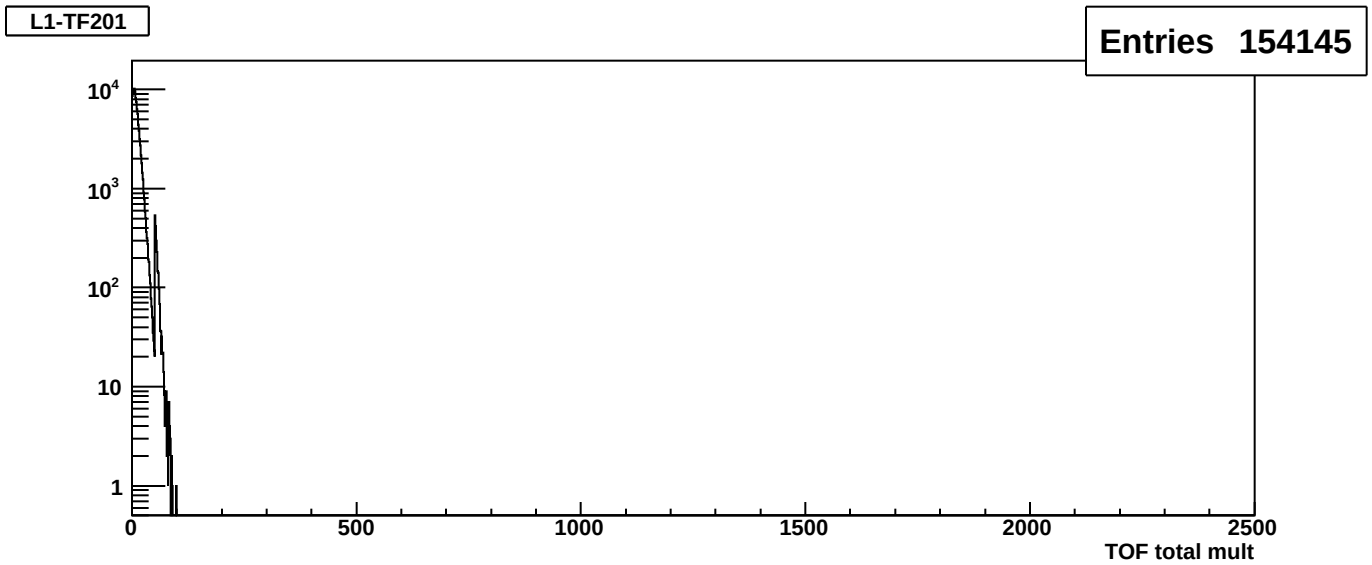

MIX-TF003
Entries 6474090
TOF MULT
TOF tray

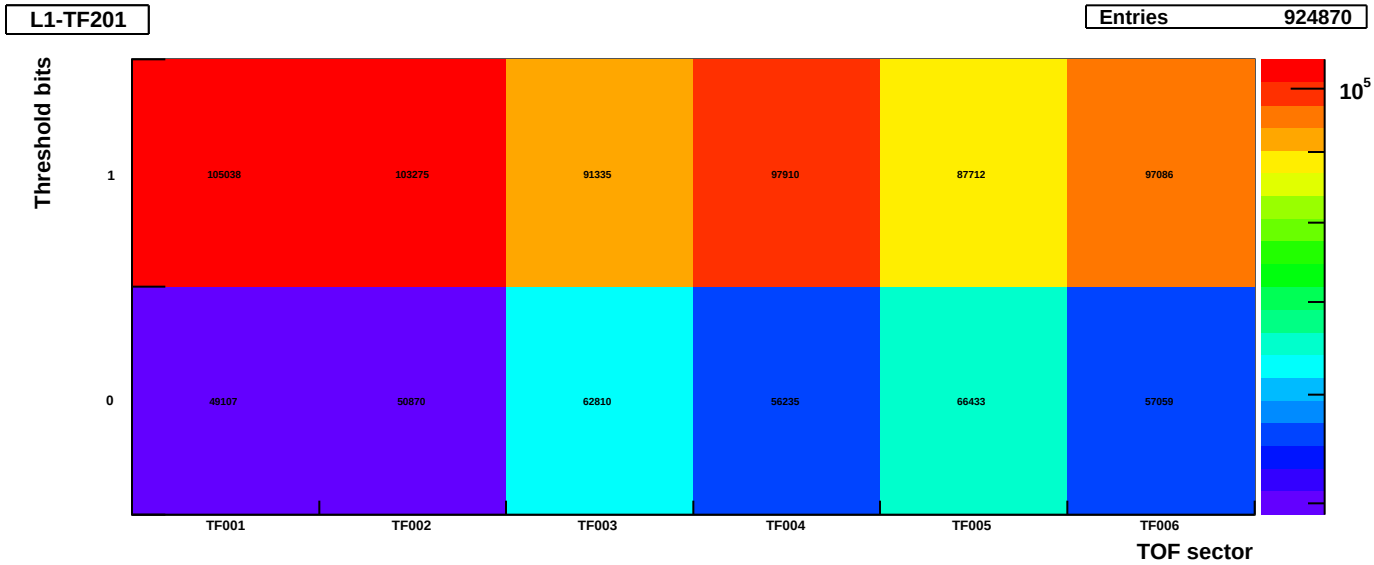

MIX-TF004
Entries 6474090
TOF MULT
TOF tray

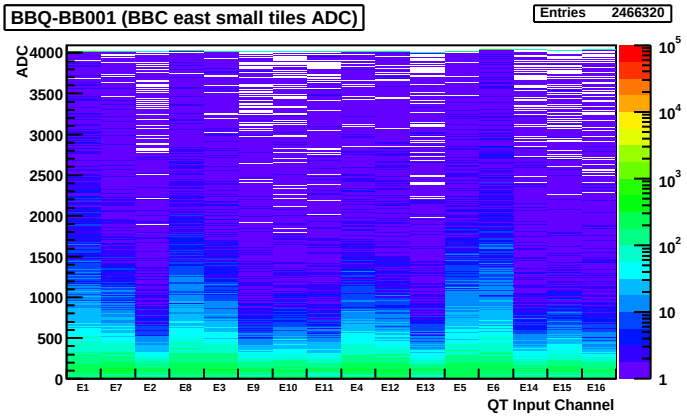

MIX-TF005
Entries 6474090
TOF MULT
TOF tray

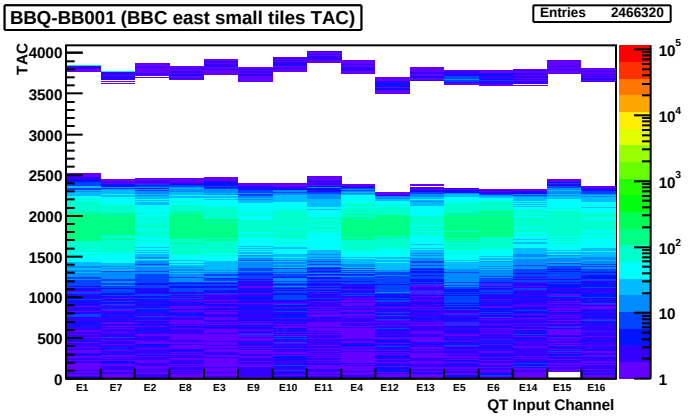

MIX-TF006
Entries 6474090
TOF MULT
TOF tray

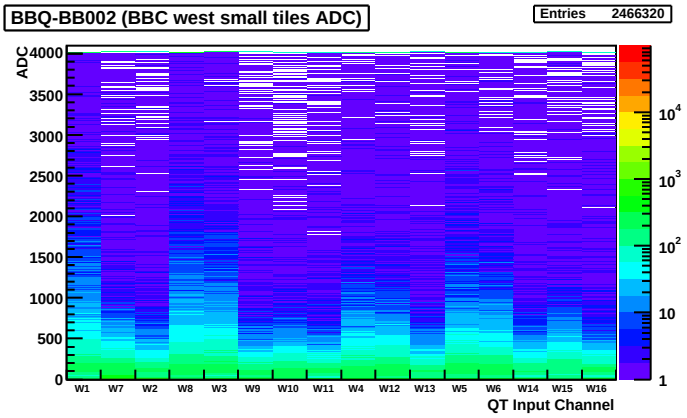

MIX-TF101
Entries 924870
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
$10^4$
$10^3$
$10^2$
10
1

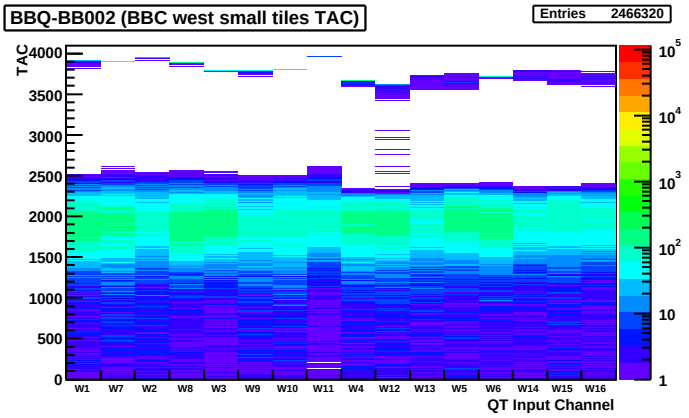

L1-TF201
Entries 154145
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
TOF total mult

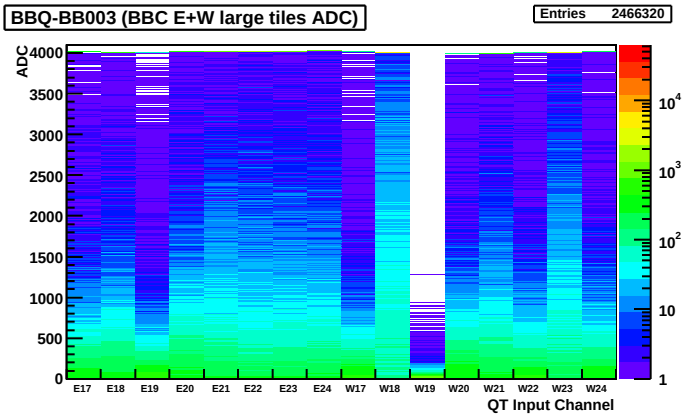

L1-TF201
Entries 924870
Threshold bits
1
0
105038
103275
91335
97910
87712
97086
49107
50870
62810
56235
66433
57059
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
$10^5$

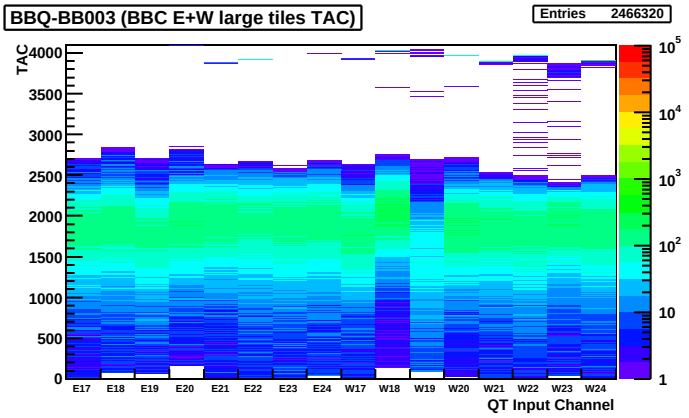

BBQ-BB001 (BBC east small tiles ADC)
Entries 2466320
ADC
QT Input Channel

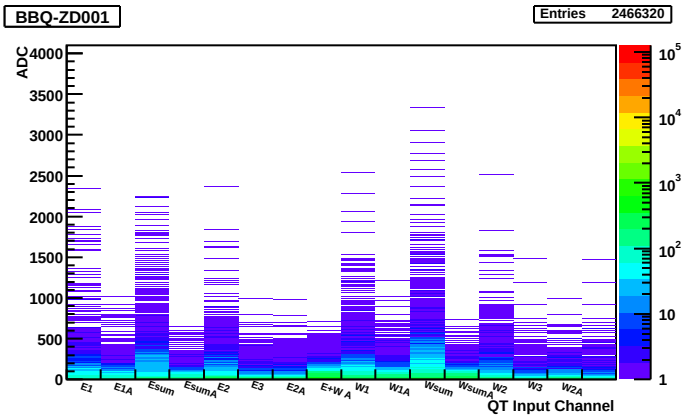

BBQ-BB001 (BBC east small tiles TAC)
Entries 2466320
TAC
QT Input Channel

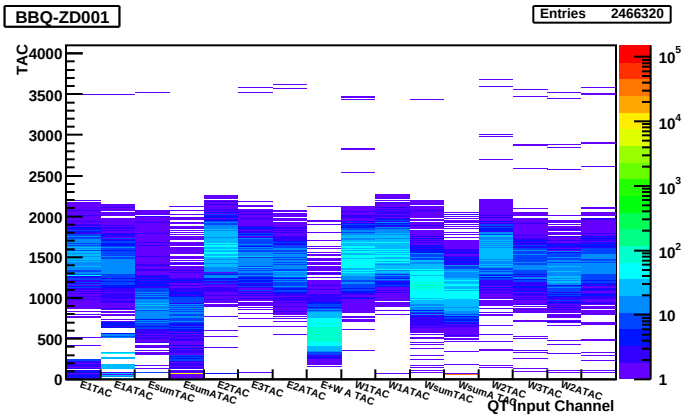

BBQ-BB002 (BBC west small tiles ADC)
Entries 2466320
ADC
QT Input Channel

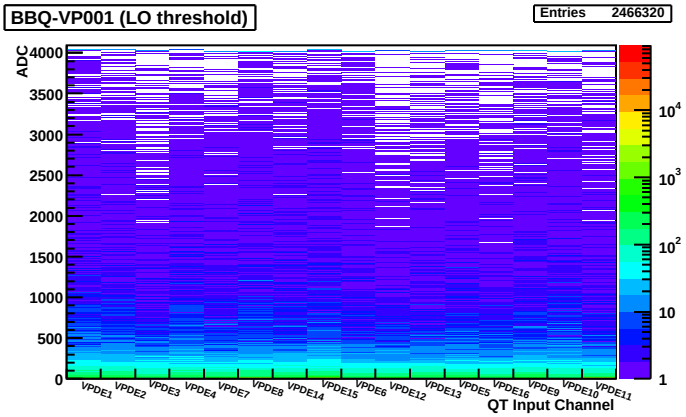

BBQ-BB002 (BBC west small tiles TAC)
Entries 2466320
TAC
QT Input Channel

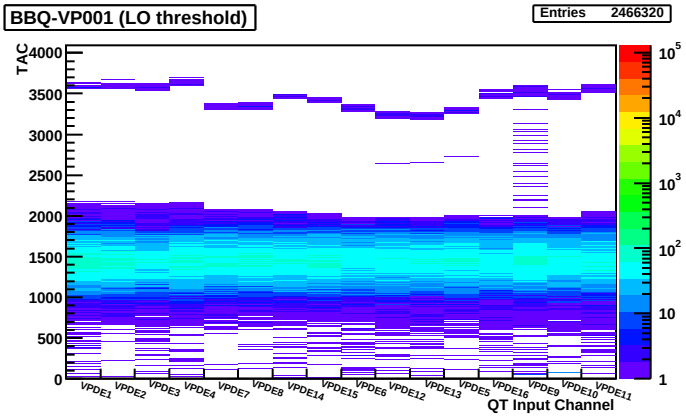

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2466320
ADC
QT Input Channel

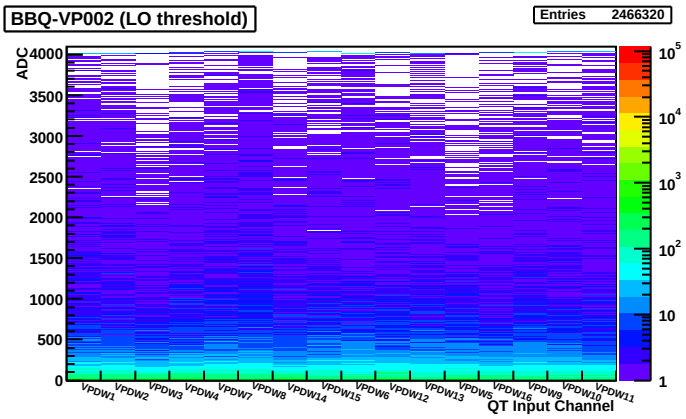

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2466320
TAC
QT Input Channel

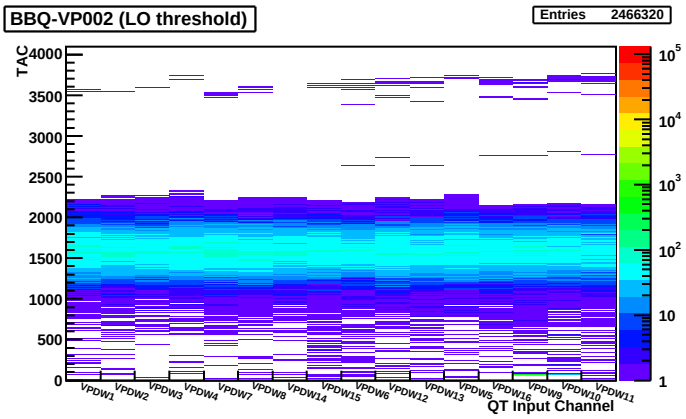

BBQ-ZD001
Entries 2466320
ADC
QT Input Channel

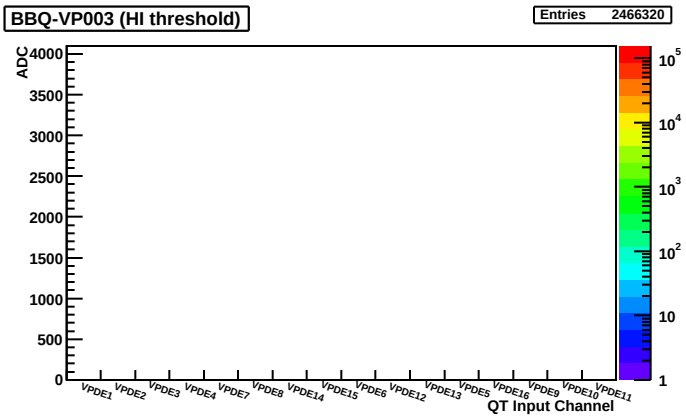

BBQ-ZD001
Entries 2466320
TAC
QT Input Channel

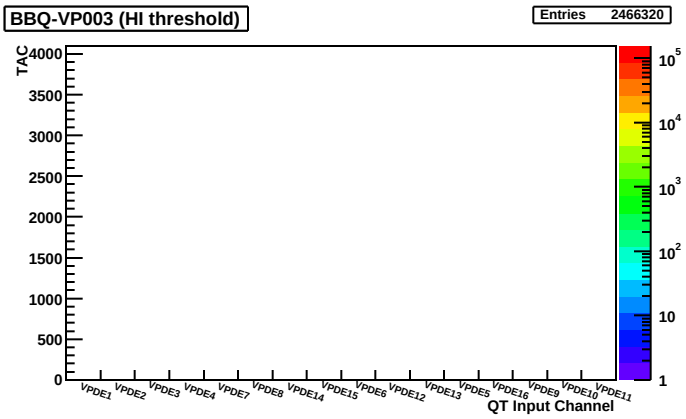

BBQ-VP001 (LO threshold)
Entries 2466320
ADC
QT Input Channel

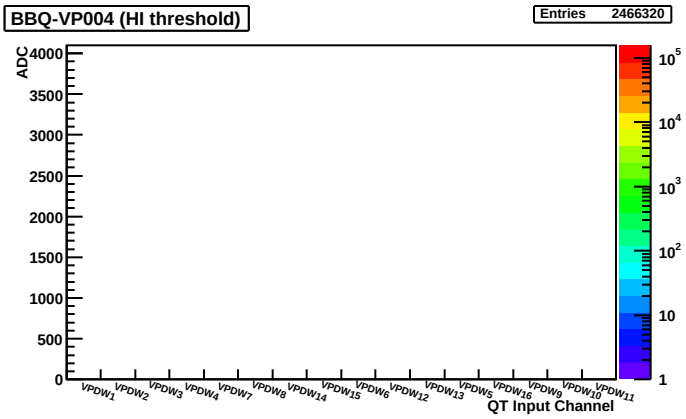

BBQ-VP001 (LO threshold)
Entries 2466320
TAC
QT Input Channel

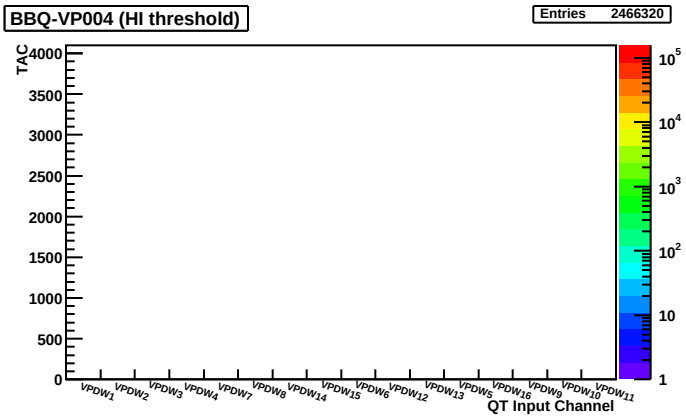

BBQ-VP002 (LO threshold)
Entries 2466320
ADC
QT Input Channel

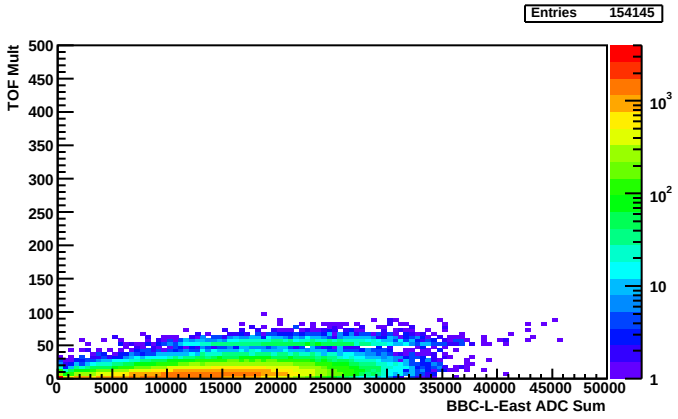

BBQ-VP002 (LO threshold)
Entries 2466320
TAC
QT Input Channel

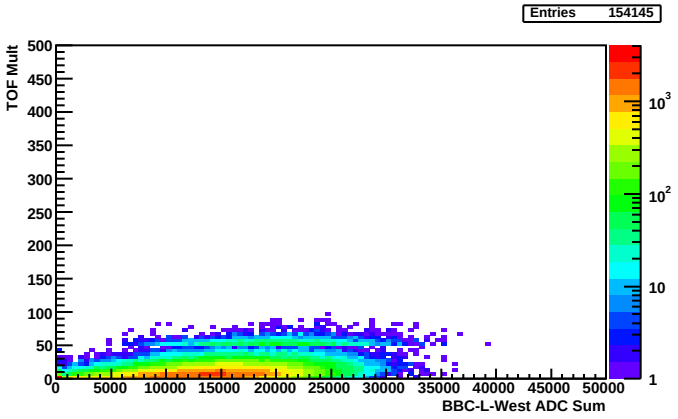

BBQ-VP003 (HI threshold)
Entries 2466320
ADC
QT Input Channel

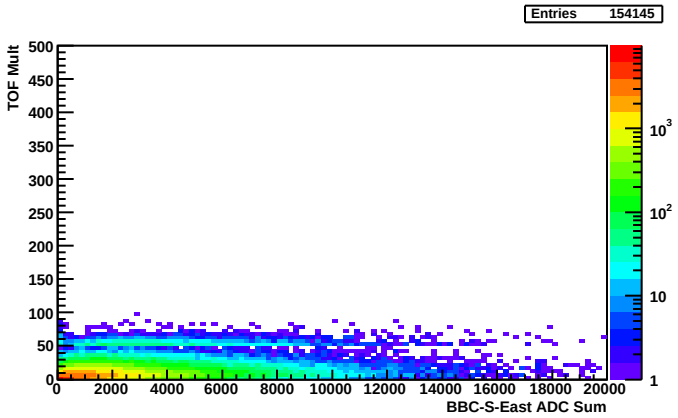

BBQ-VP003 (HI threshold)
Entries 2466320
TAC
QT Input Channel

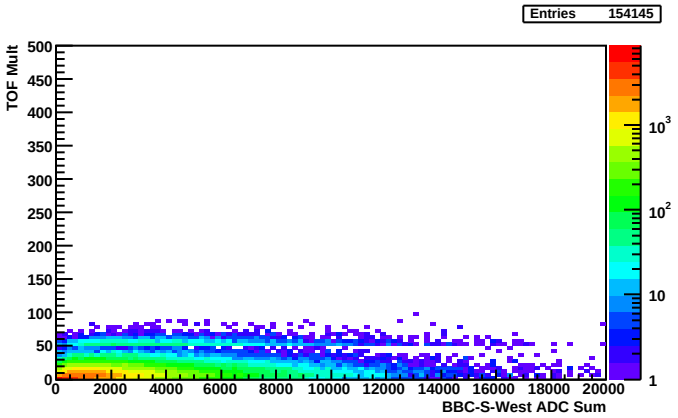

BBQ-VP004 (HI threshold)
Entries 2466320
ADC
QT Input Channel

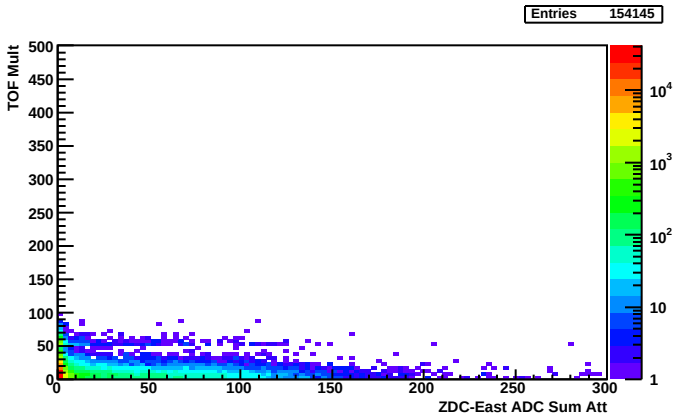

BBQ-VP004 (HI threshold)
Entries 2466320
TAC
QT Input Channel

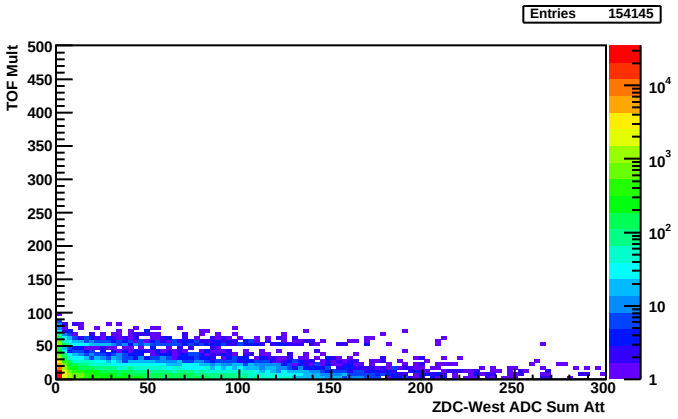

Entries 154145
TOF Mult
BBC-L-East ADC Sum

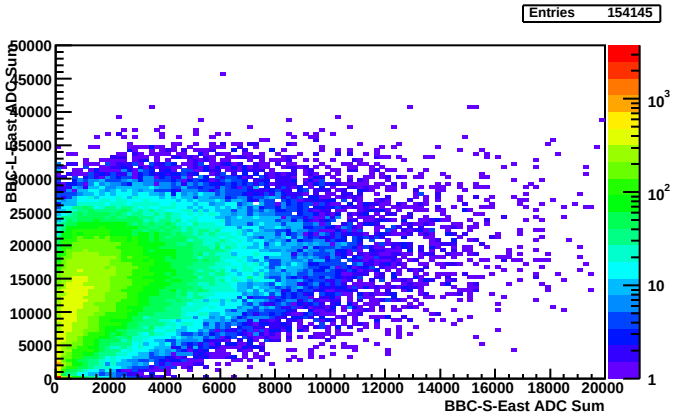

Entries 154145
TOF Mult
BBC-L-West ADC Sum

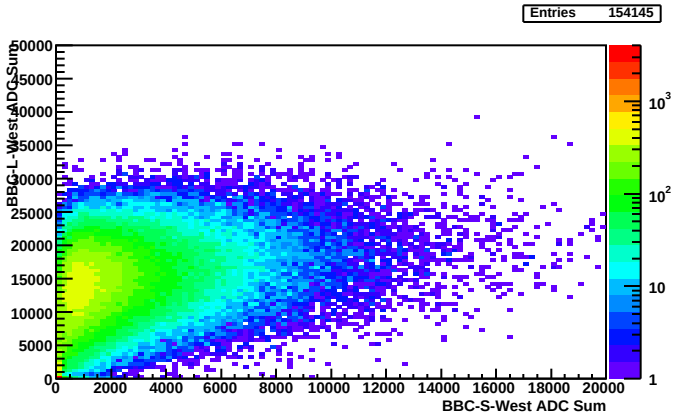

Entries 154145
TOF Mult
BBC-S-East ADC Sum

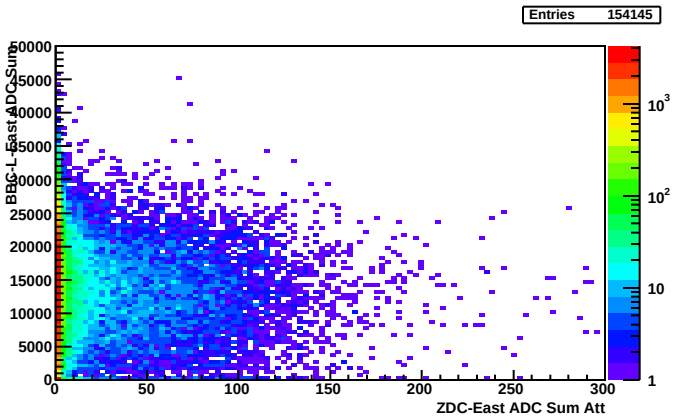

Entries 154145
TOF Mult
BBC-S-West ADC Sum

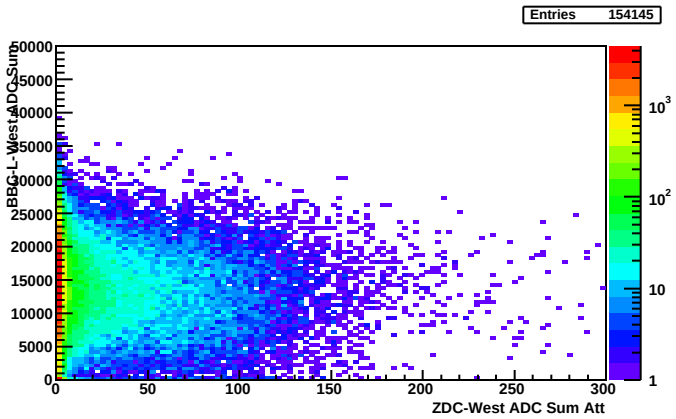

Entries 154145
TOF Mult
ZDC-East ADC Sum Att

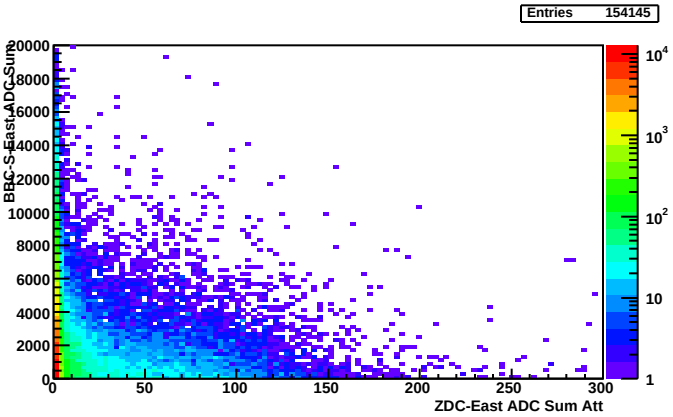

Entries 154145
TOF Mult
ZDC-West ADC Sum Att

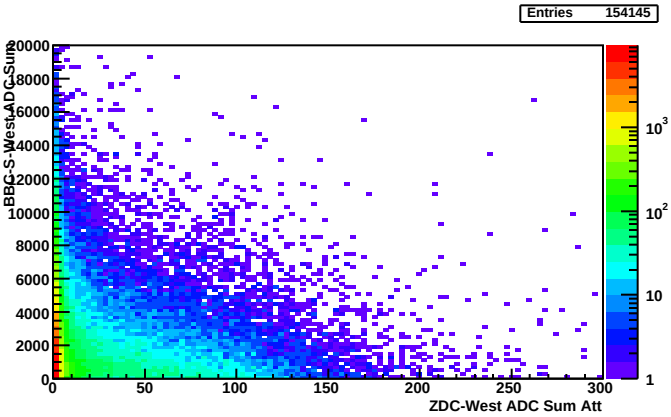

Entries 154145
BBC-L-East ADC Sum
BBC-S-East ADC Sum

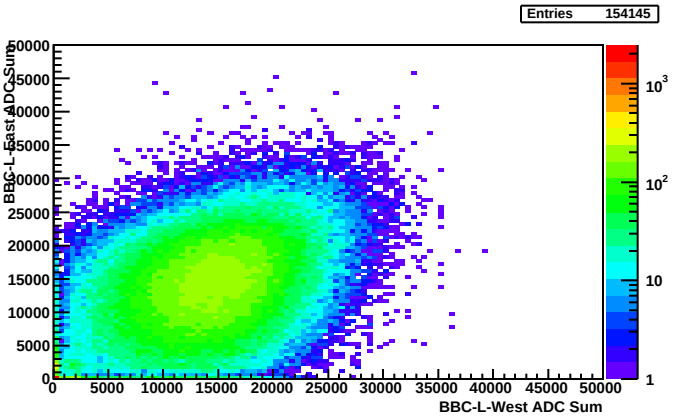

Entries 154145
BBC-L-West ADC Sum
BBC-S-West ADC Sum

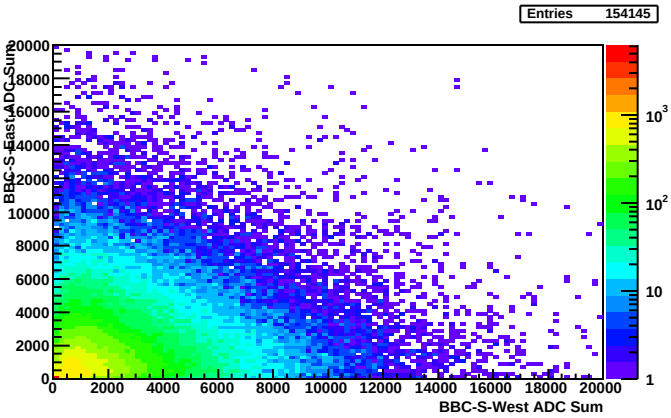

Entries 154145
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

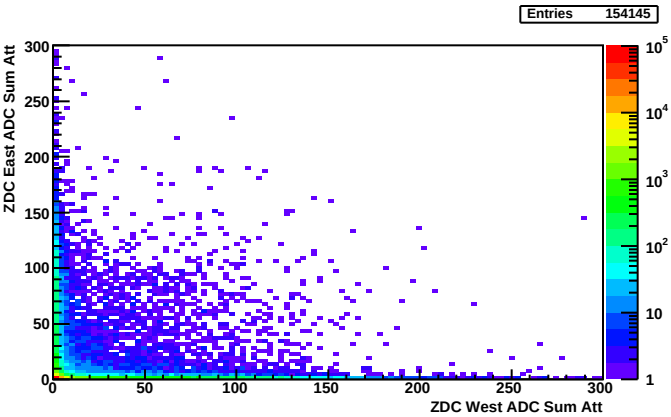

Entries 154145
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

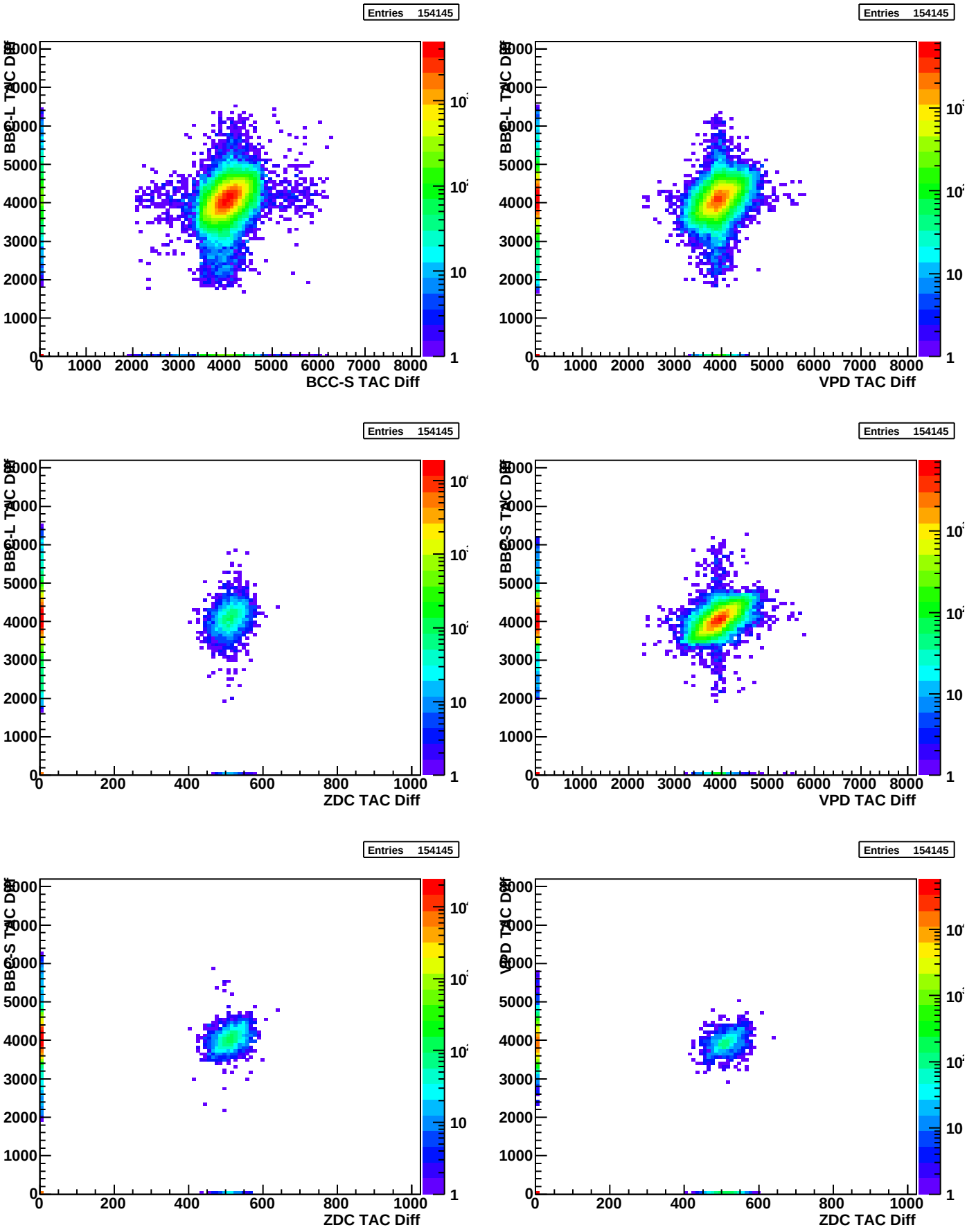

Entries 154145
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

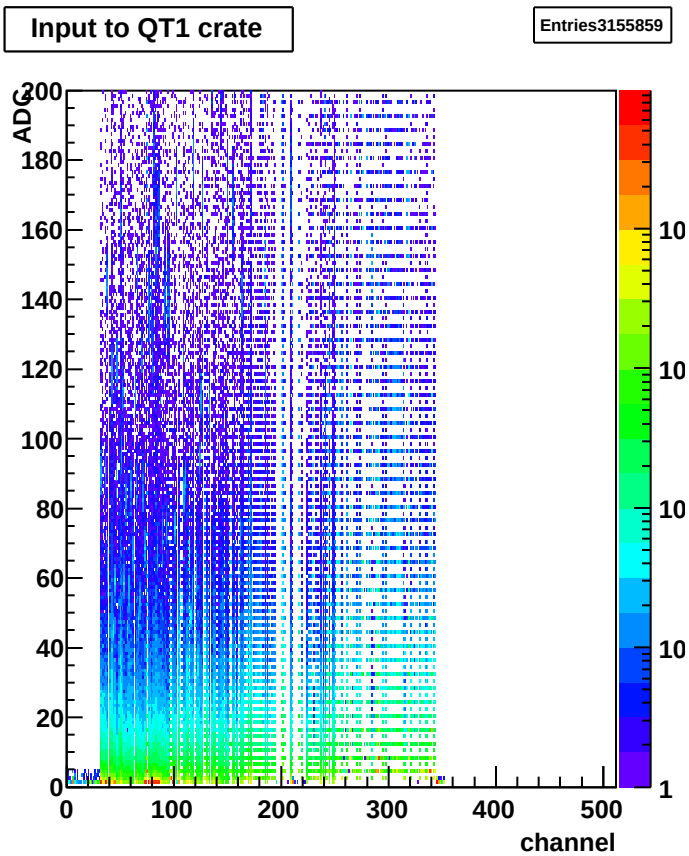

Entries 154145
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

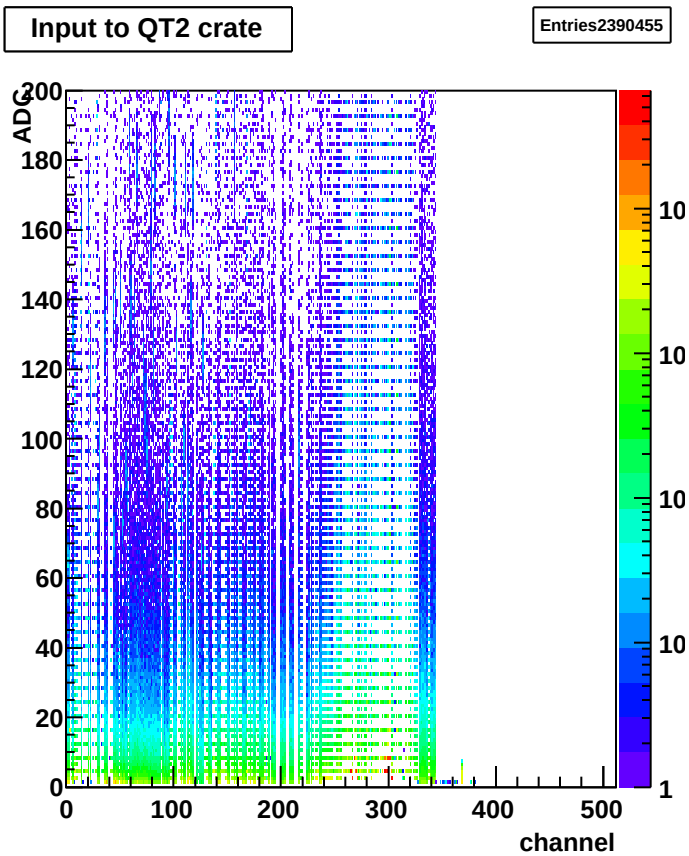

Entries 154145
BBC-L-East ADC Sum
BBC-L-West ADC Sum

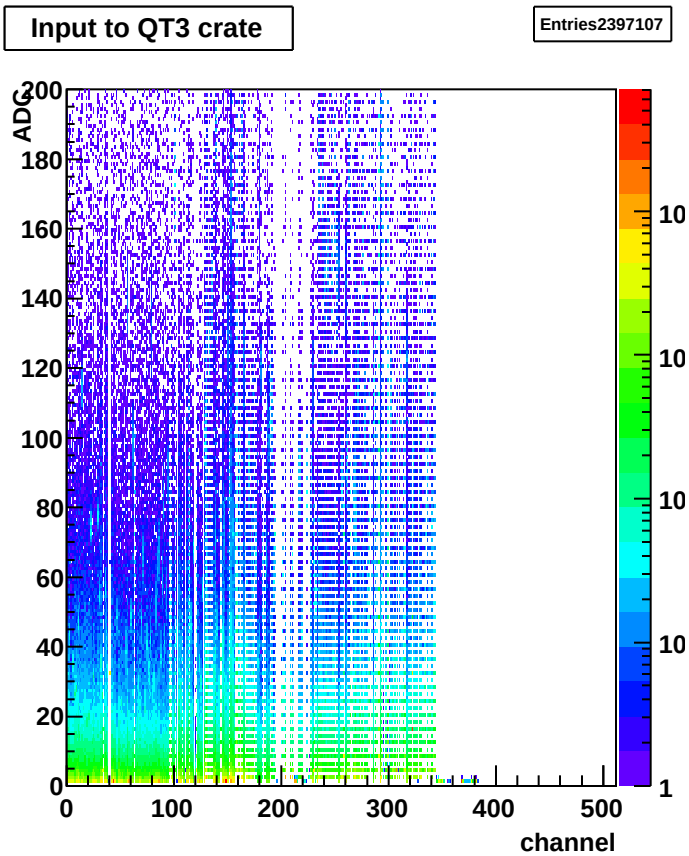

Entries 154145
BBC-S-East ADC Sum
BBC-S-West ADC Sum

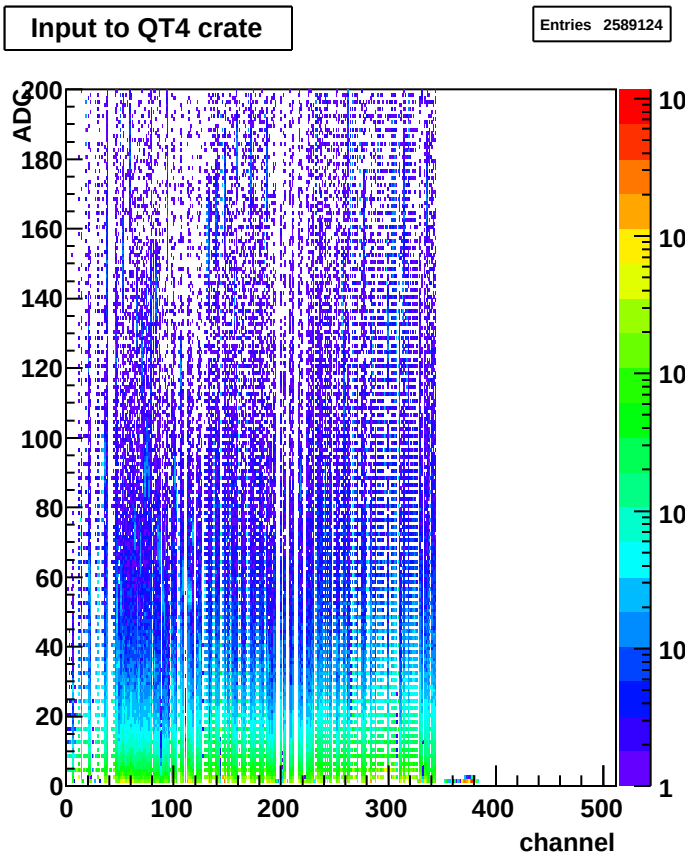

Entries 154145
ZDC East ADC Sum Att
ZDC West ADC Sum Att

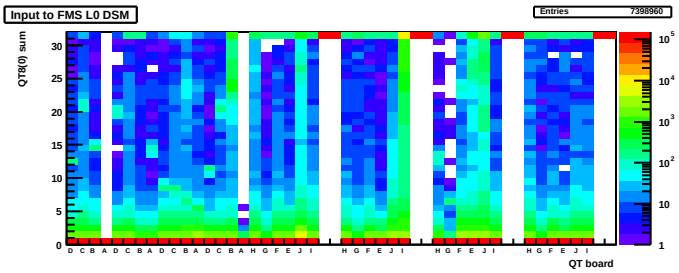

Entries 154145
BBC-L TAC Diff
BCC-S TAC Diff
Entries 154145
BBC-L TAC Diff
VPD TAC Diff
Entries 154145
BBC-L TAC Diff
ZDC TAC Diff
Entries 154145
BBC-S TAC Diff
VPD TAC Diff
Entries 154145
BBC-S TAC Diff
ZDC TAC Diff
Entries 154145
VPD TAC Diff
ZDC TAC Diff

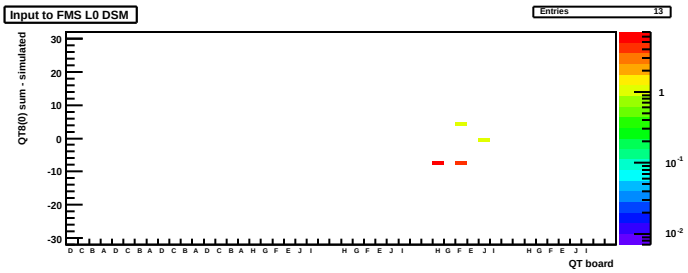

Input to QT1 crate
Entries3155859
ADC
channel

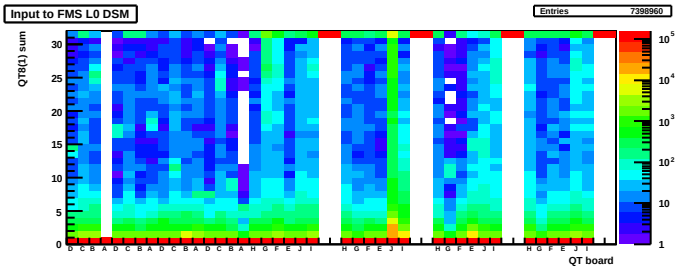

Input to QT2 crate
Entries2390455
ADC
channel

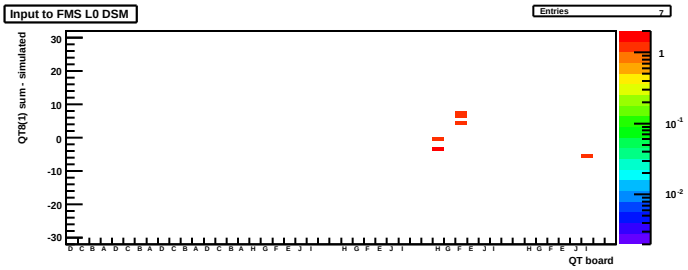

Input to QT3 crate
Entries2397107
ADC
channel

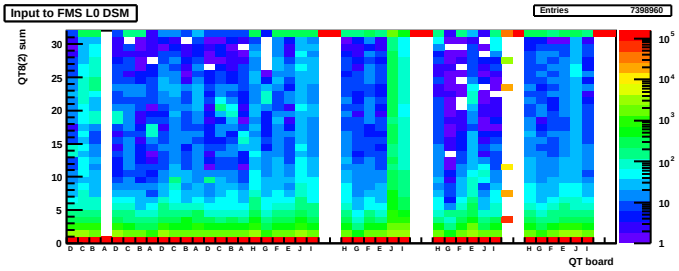

Input to QT4 crate
Entries 2589124
ADC
channel

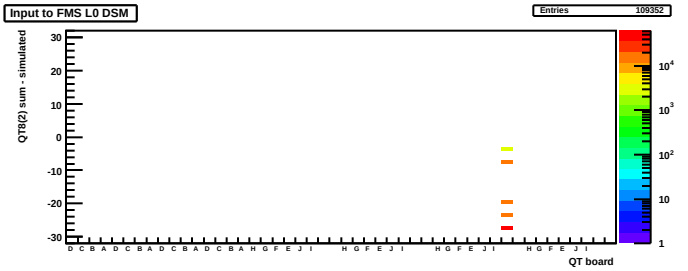

Input to FMS L0 DSM
Entries 7398960
QT8(0) sum
QT board

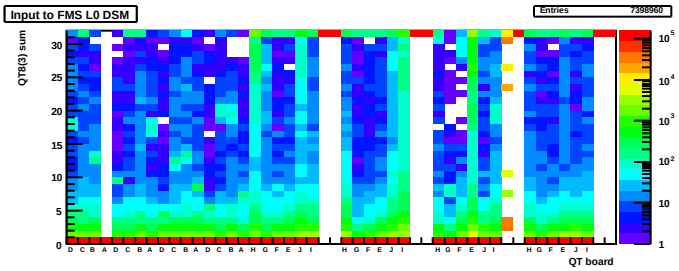

Input to FMS L0 DSM
Entries 13
QT8(0) sum - simulated
QT board

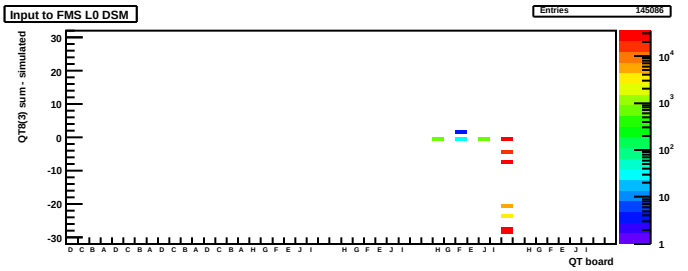

Input to FMS L0 DSM
Entries 7398960
QT8(1) sum
QT board

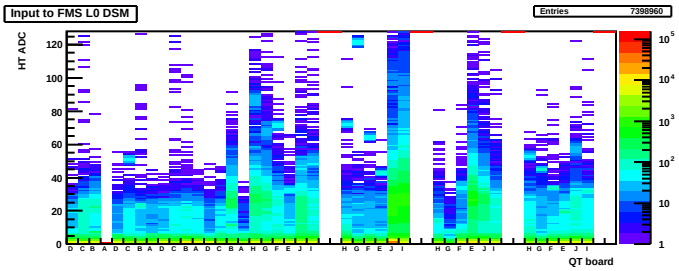

Input to FMS L0 DSM
Entries 7
QT8(1) sum - simulated
QT board

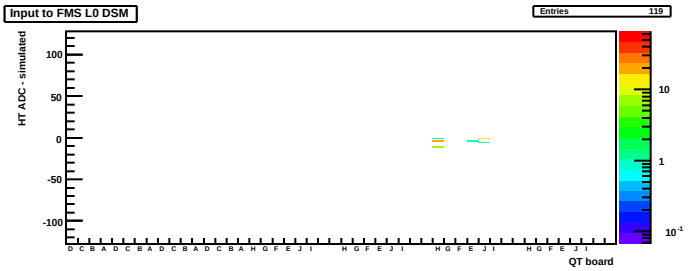

Input to FMS L0 DSM
Entries 7398960
QT8(2) sum
QT board

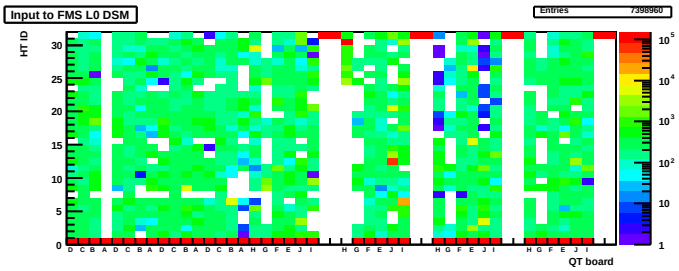

Input to FMS L0 DSM
Entries 109352
QT8(2) sum - simulated
QT board

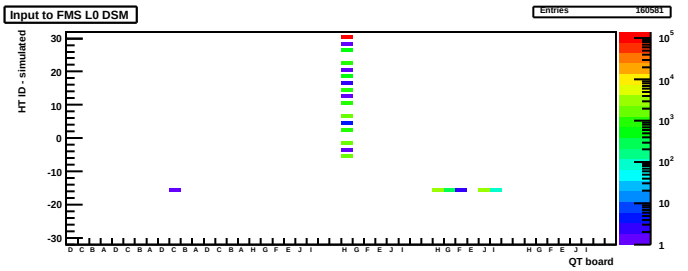

Input to FMS L0 DSM
Entries 7398960
QT8(3) sum
QT board

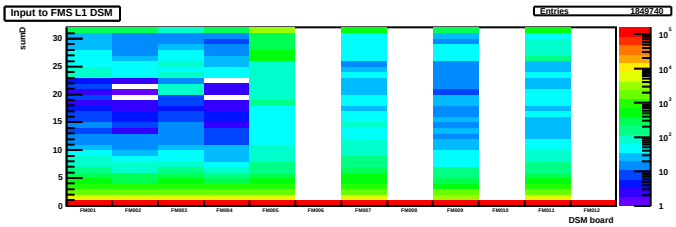

Input to FMS L0 DSM
Entries 145086
QT8(3) sum - simulated
QT board

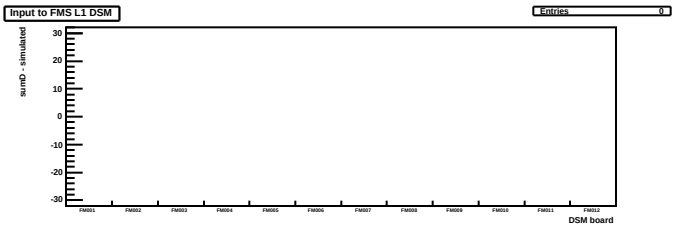

Input to FMS L0 DSM
Entries 7398960
HT ADC
QT board

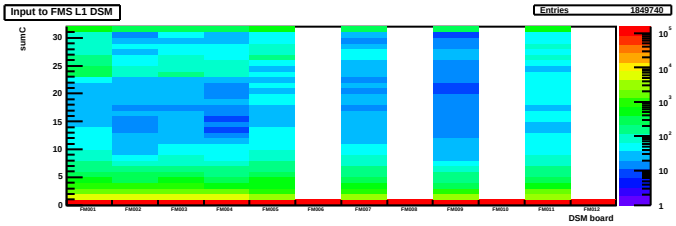

Input to FMS L0 DSM
Entries 119
HT ADC - simulated
QT board

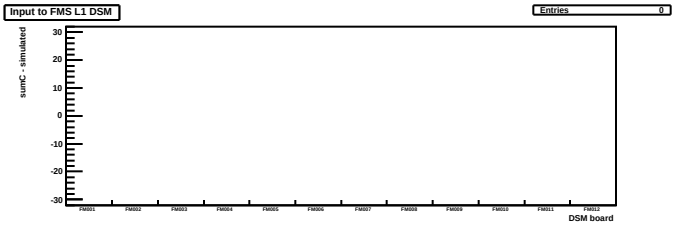

Input to FMS L0 DSM
Entries 7398960
HT ID
QT board

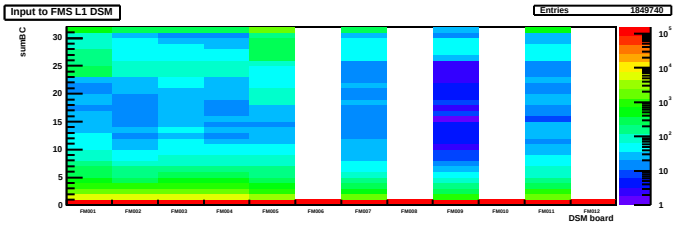

Input to FMS L0 DSM
Entries 160581
HT ID - simulated
QT board

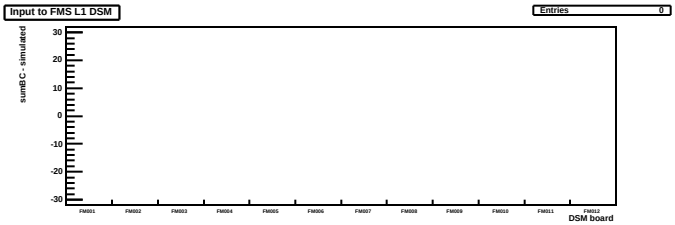

Input to FMS L1 DSM
Entries 1849740
sumD
DSM board

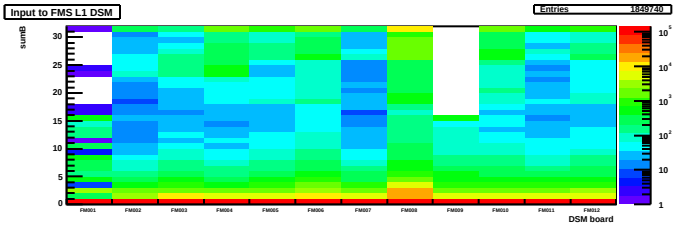

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

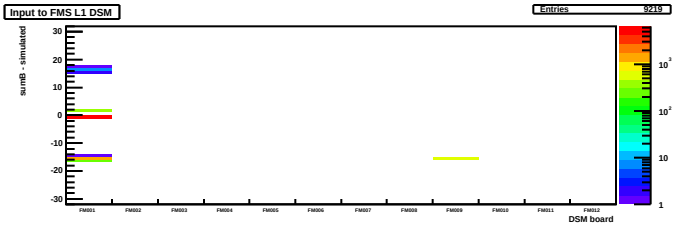

Input to FMS L1 DSM
Entries 1849740
sumC
DSM board

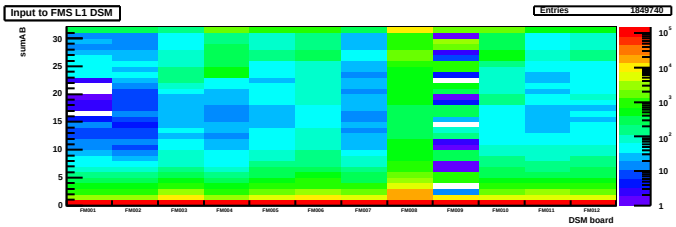

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

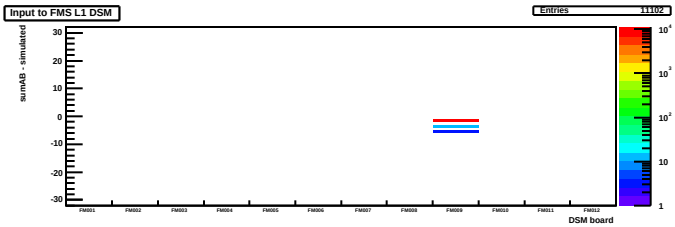

Input to FMS L1 DSM
Entries 1849740
sumBC
DSM board

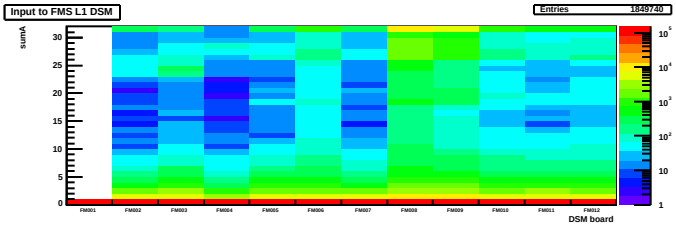

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

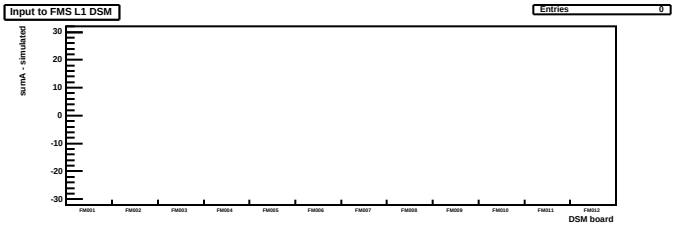

Input to FMS L1 DSM
Entries 1849740
sumB
DSM board

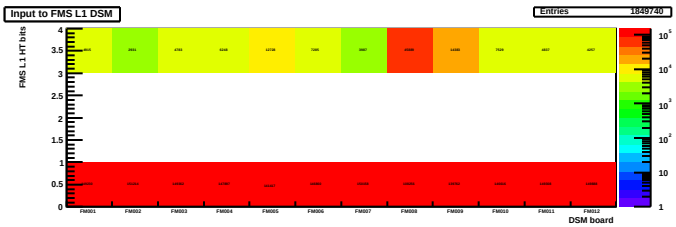

Input to FMS L1 DSM
Entries 9219
sumB - simulated
DSM board

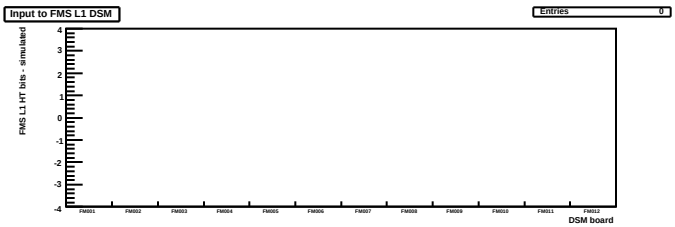

Input to FMS L1 DSM
Entries 1849740
sumAB
DSM board

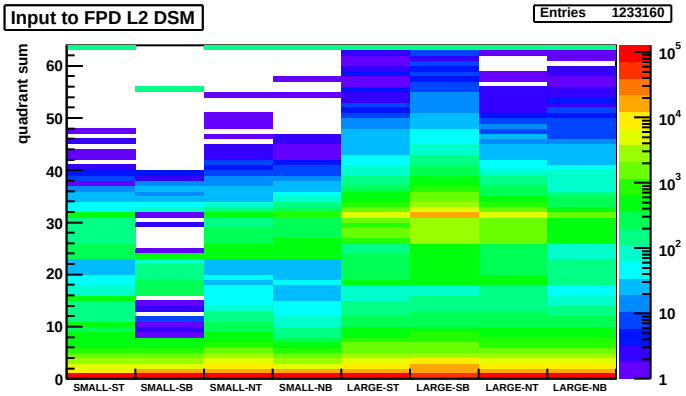

Input to FMS L1 DSM
Entries 11102
sumAB - simulated
DSM board

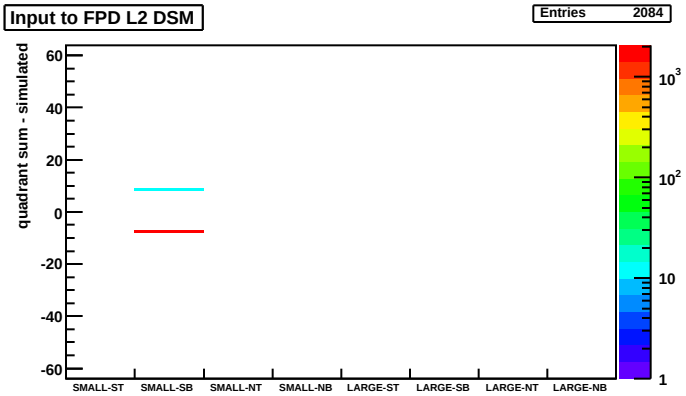

Input to FMS L1 DSM
Entries 1849740
sumA
DSM board

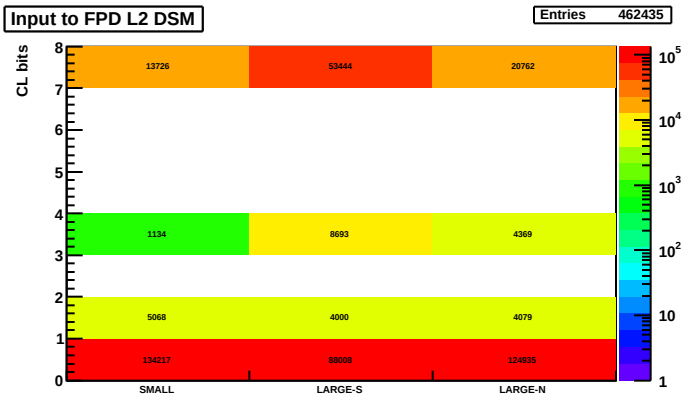

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

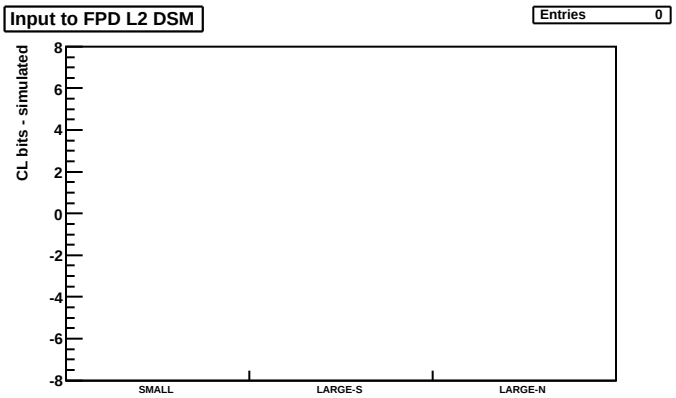

Input to FMS L1 DSM
Entries 1849740
FMS L1 HT bits
DSM board

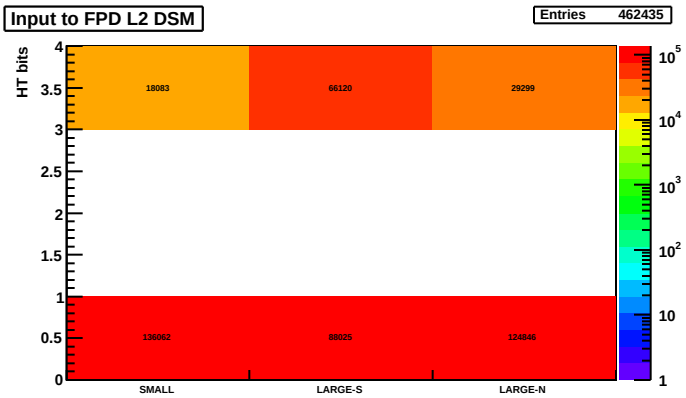

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

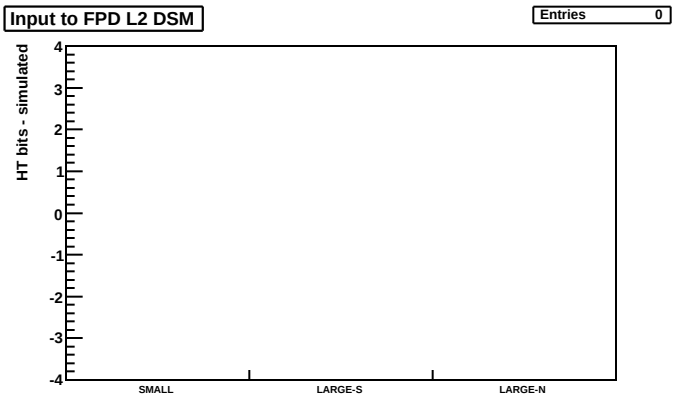

Input to FPD L2 DSM
Entries 1233160
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

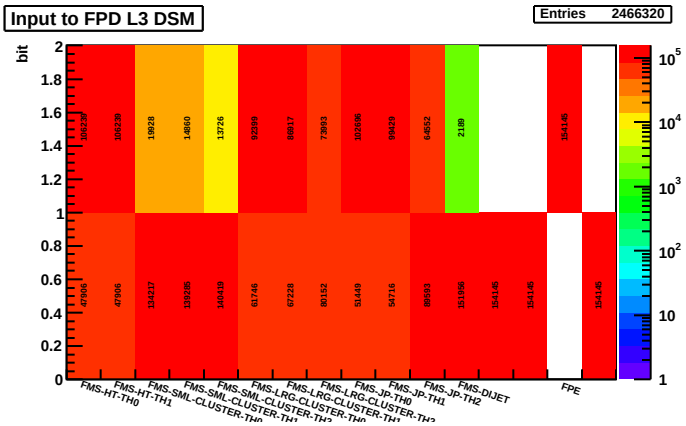

Input to FPD L2 DSM
Entries 2084
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

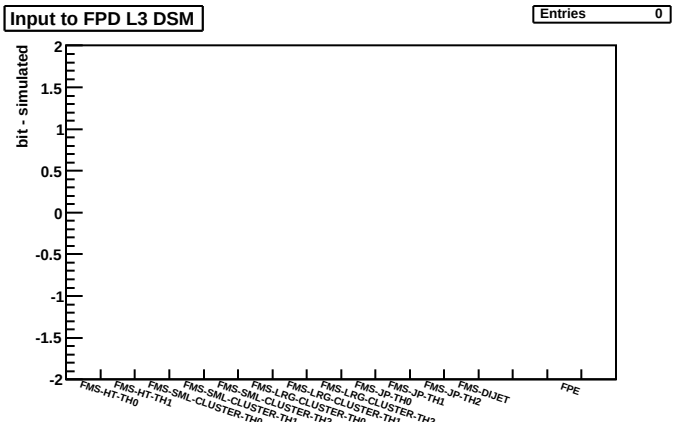

Input to FPD L2 DSM
Entries 462435
CL bits
13726
53444
20762
1134
8693
4369
5068
4000
4079
134217
88008
124935
SMALL
LARGE-S
LARGE-N

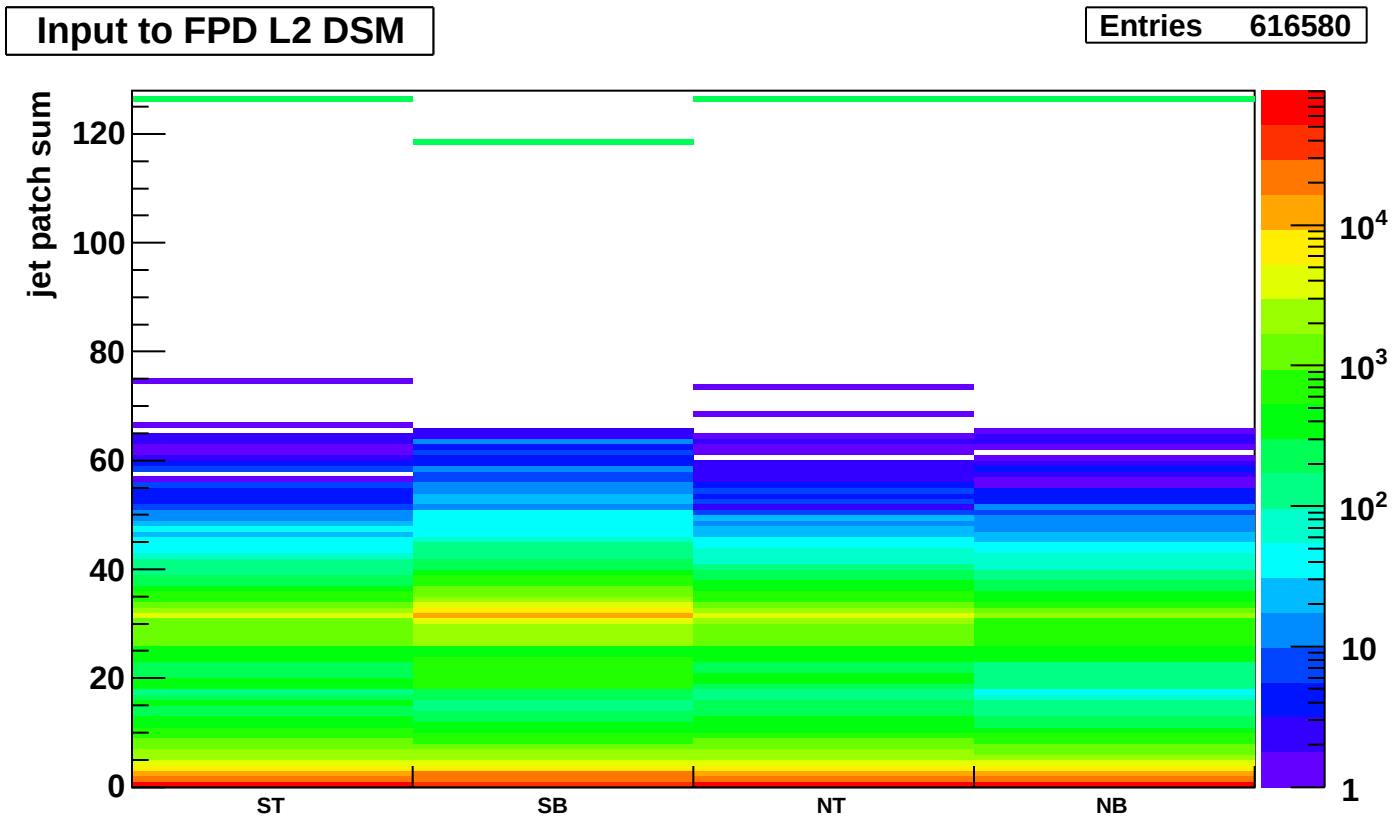

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

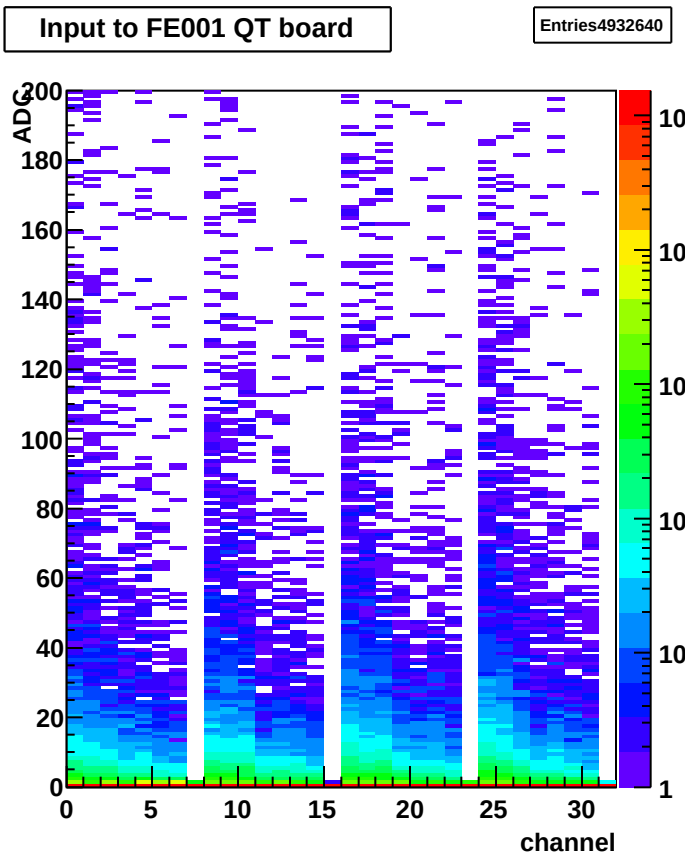

Input to FPD L2 DSM
Entries 462435
HT bits
18083
66120
29299
136062
88025
124846
SMALL
LARGE-S
LARGE-N

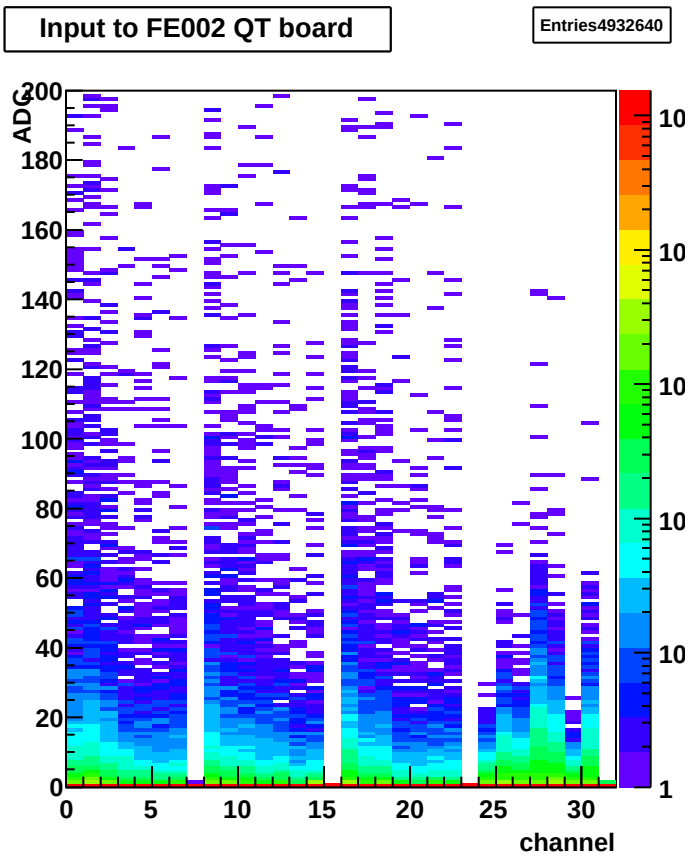

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

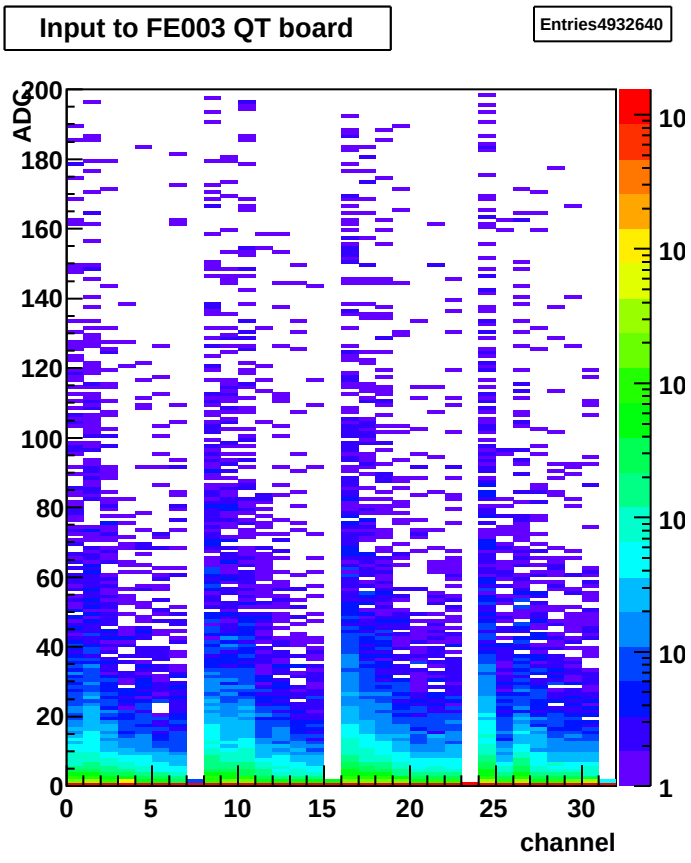

Input to FPD L3 DSM
Entries 2466320
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

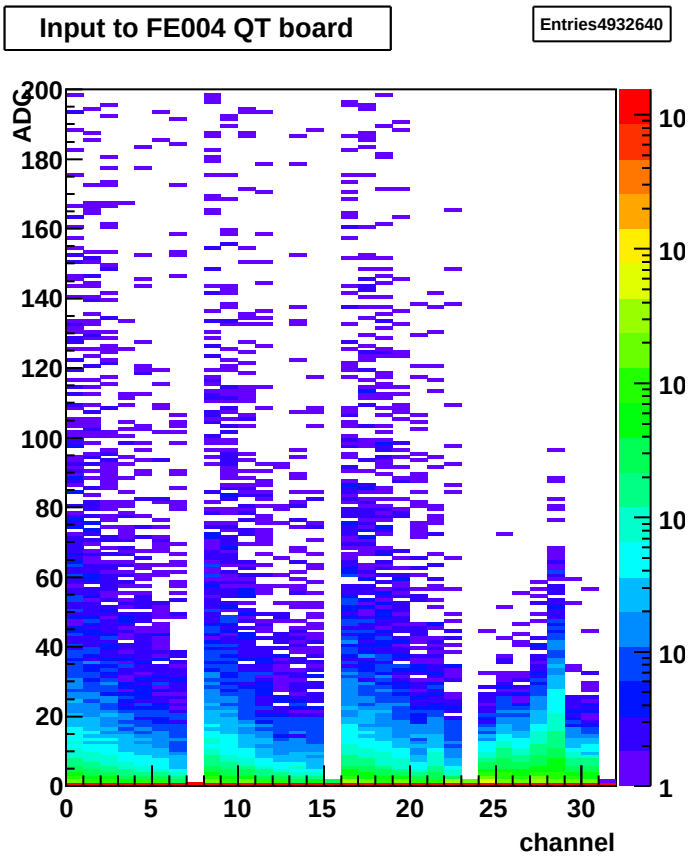

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

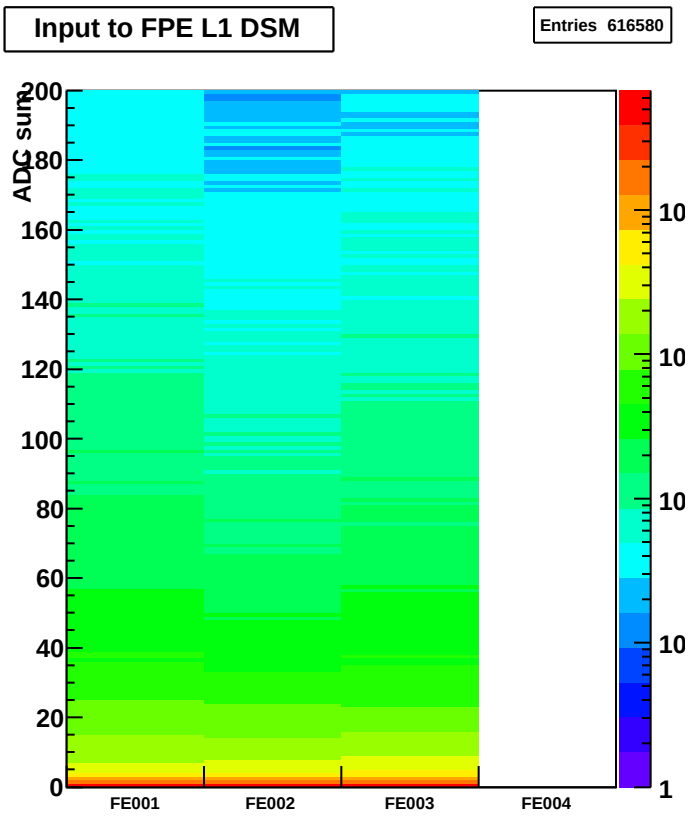

Input to FPD L2 DSM
Entries 616580
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
$10^2$
$10^3$
$10^4$

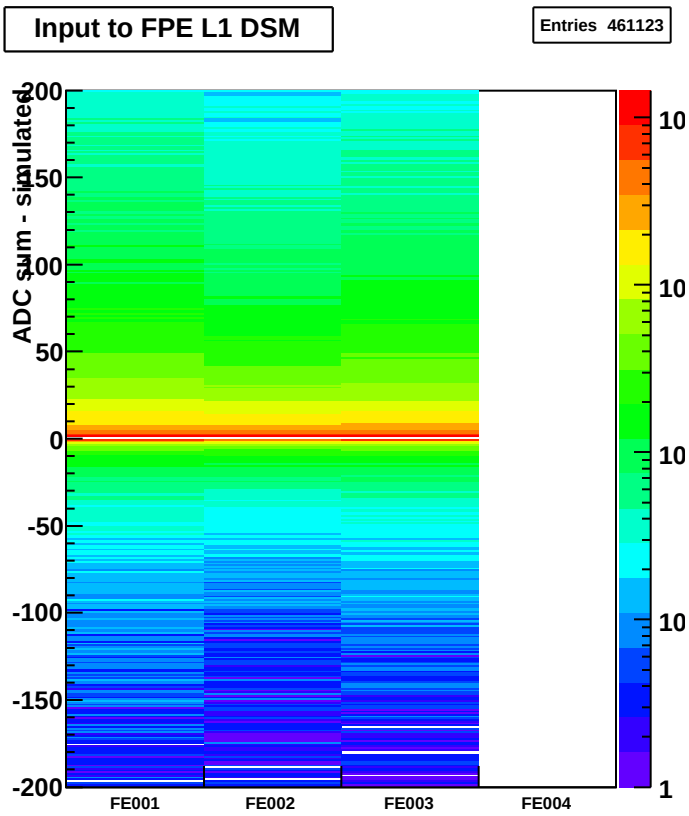

Input to FE001 QT board
Entries4932640
ADC
channel

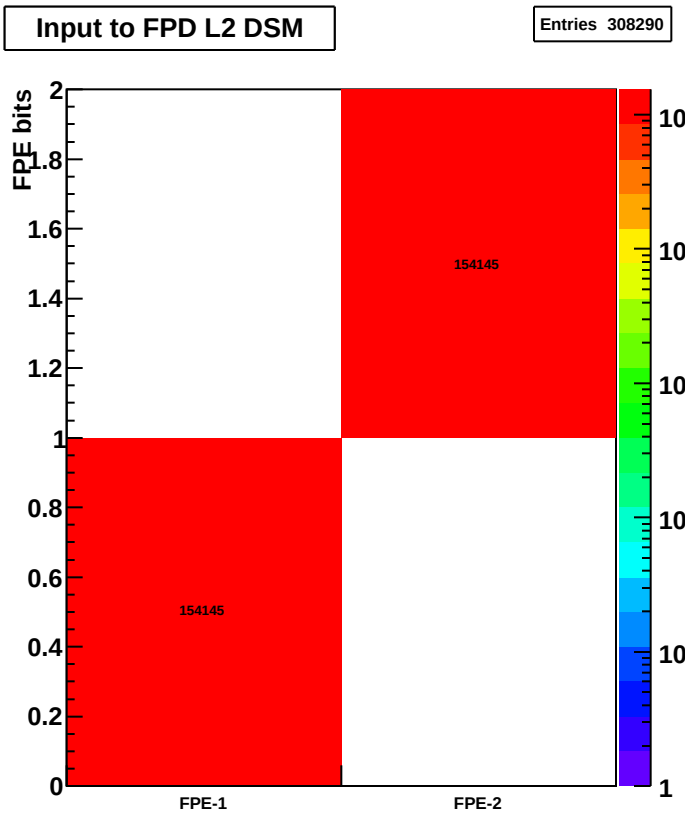

Input to FE002 QT board
Entries4932640
ADC
channel

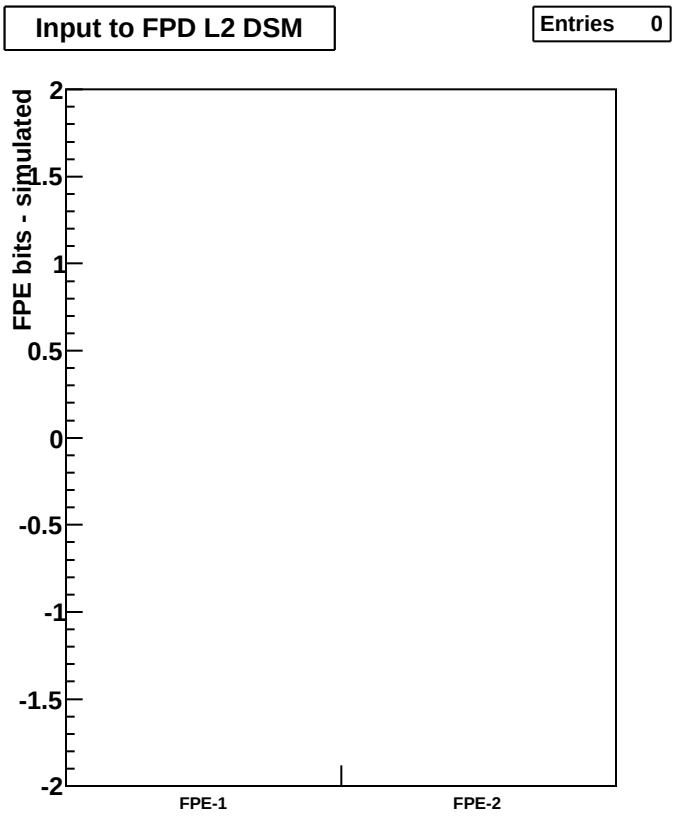

Input to FE003 QT board
Entries4932640
ADC
channel


Input to FE004 QT board
Entries4932640
ADC
channel


Input to FPE L1 DSM
Entries 616580
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 461123
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 308290
FPE bits
154145
154145
FPE-1
FPE-2


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