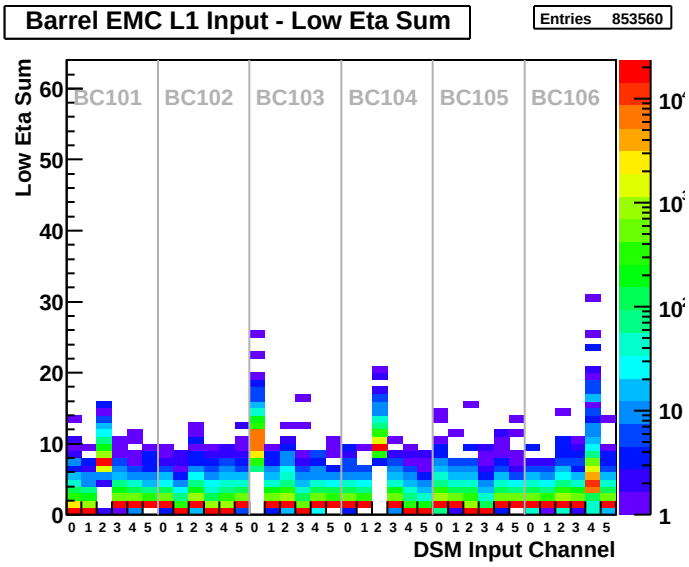
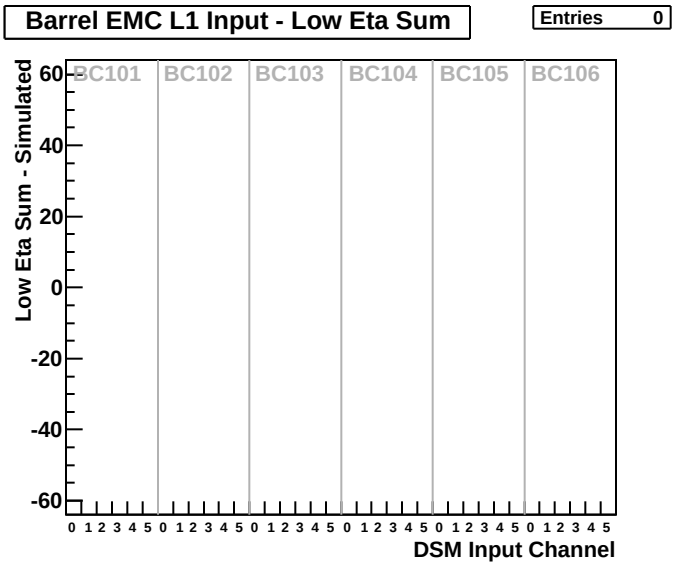
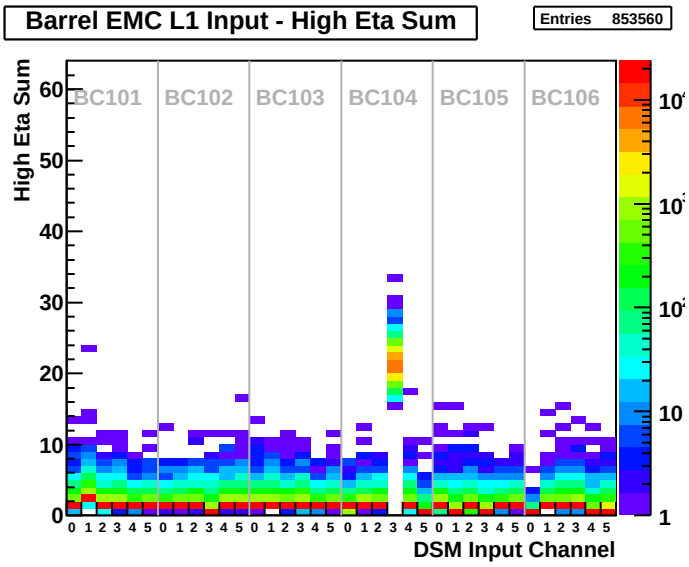
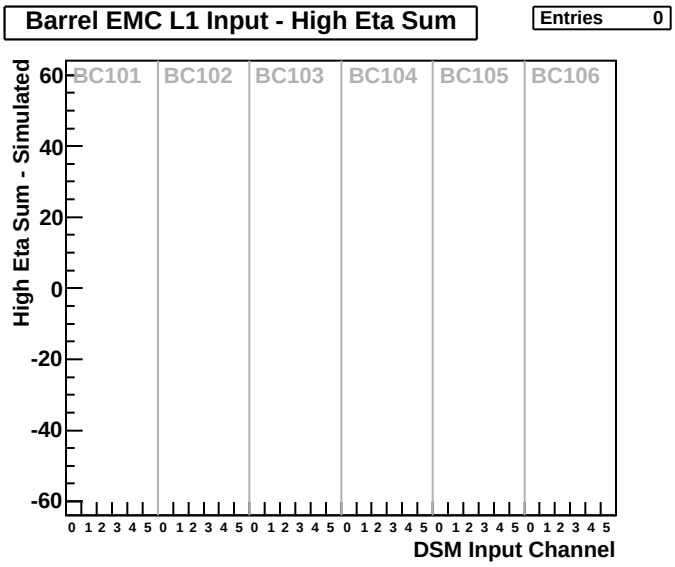
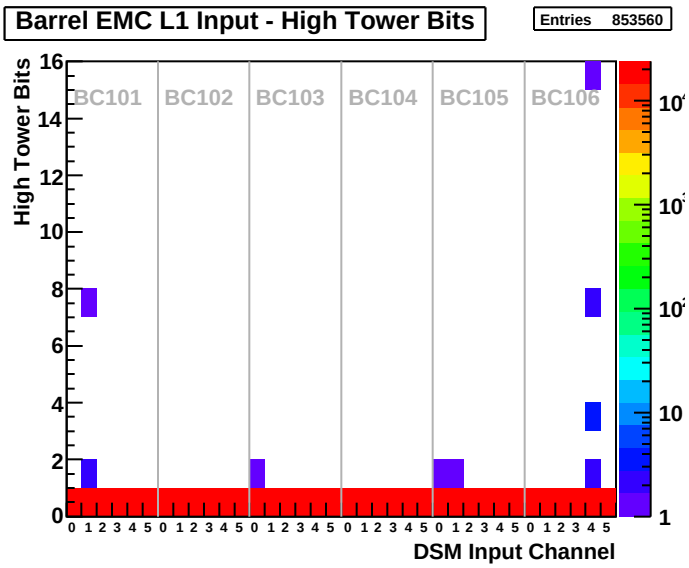
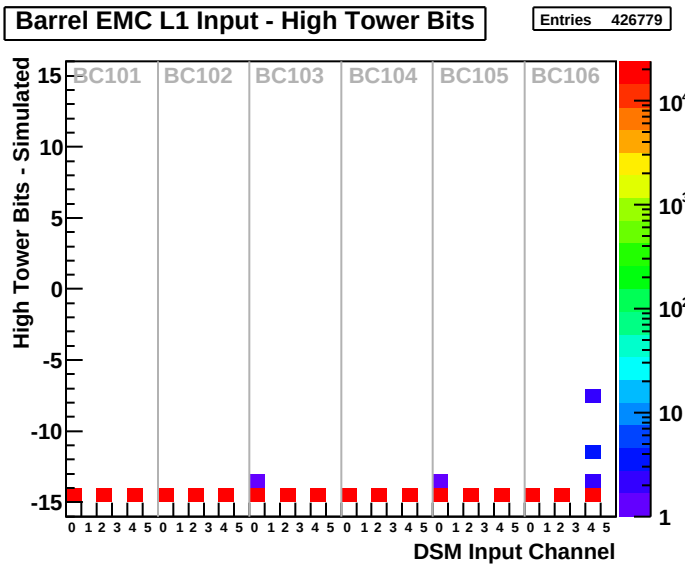

Barrel EMC L1 Input - Low Eta Sum
Entries 853560
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

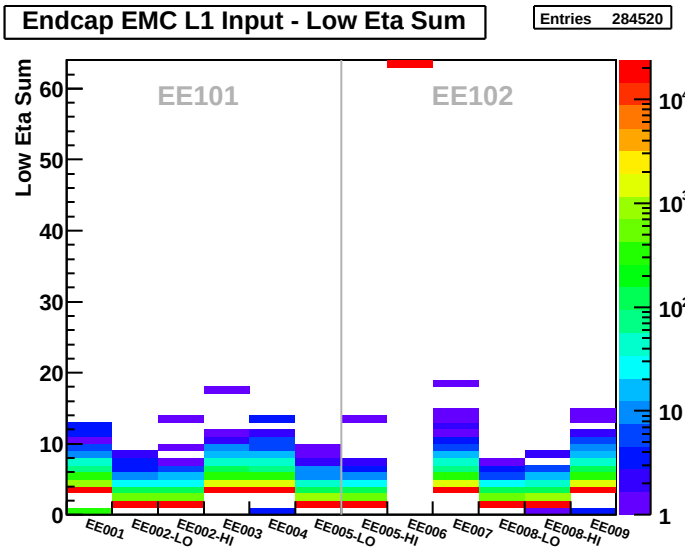

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

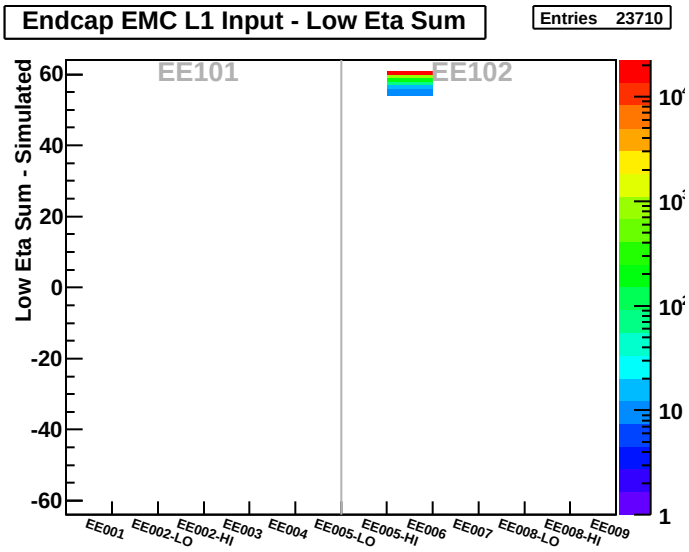

Barrel EMC L1 Input - High Eta Sum
Entries 853560
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

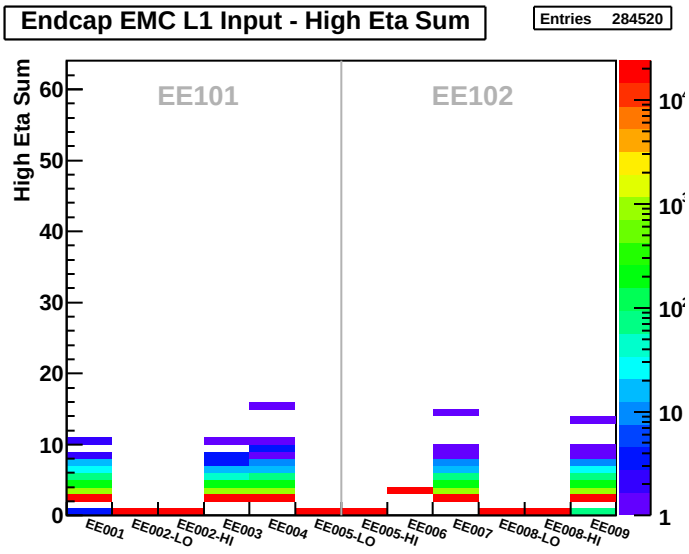

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

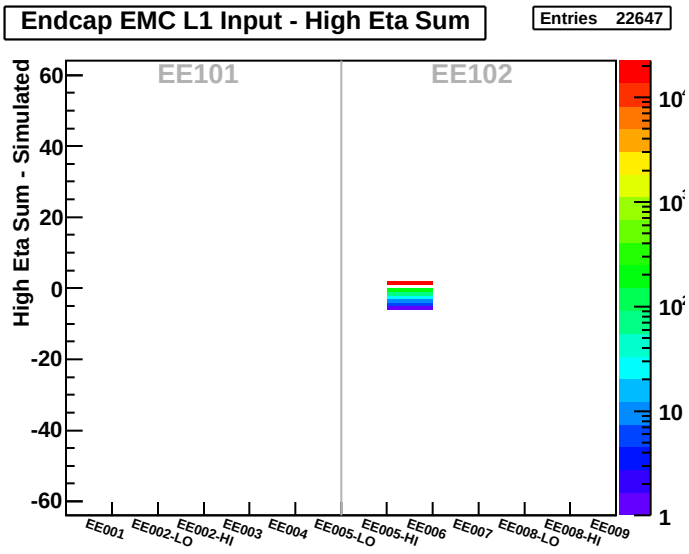

Barrel EMC L1 Input - High Tower Bits
Entries 853560
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

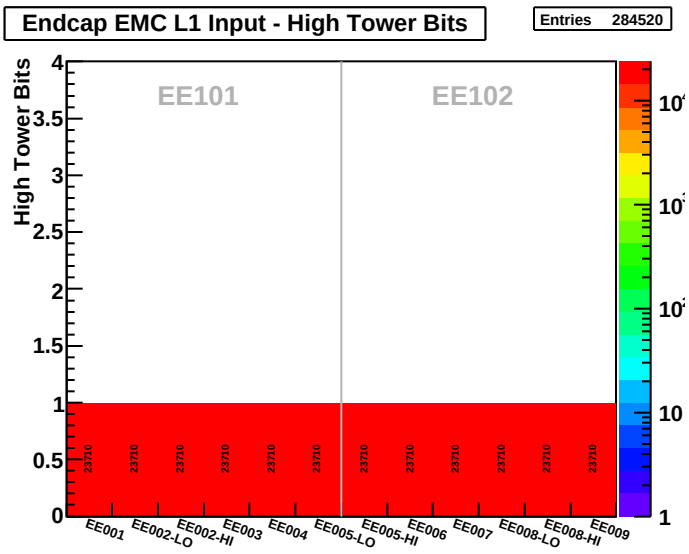

Barrel EMC L1 Input - High Tower Bits
Entries 426779
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

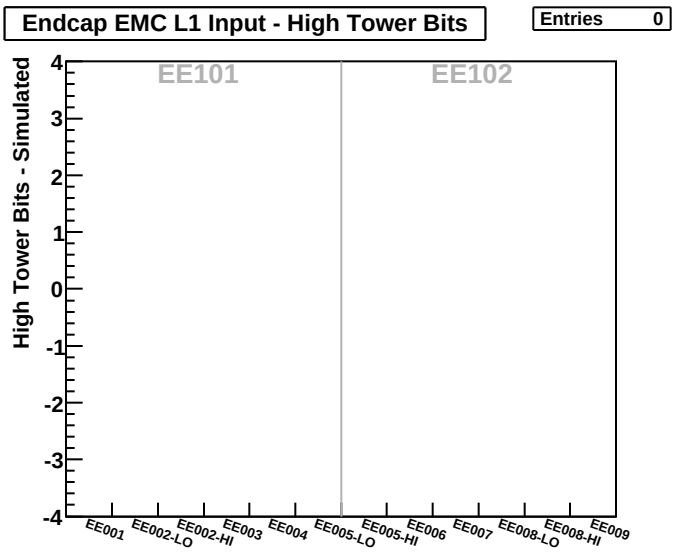

Endcap EMC L1 Input - Low Eta Sum
Entries 284520
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

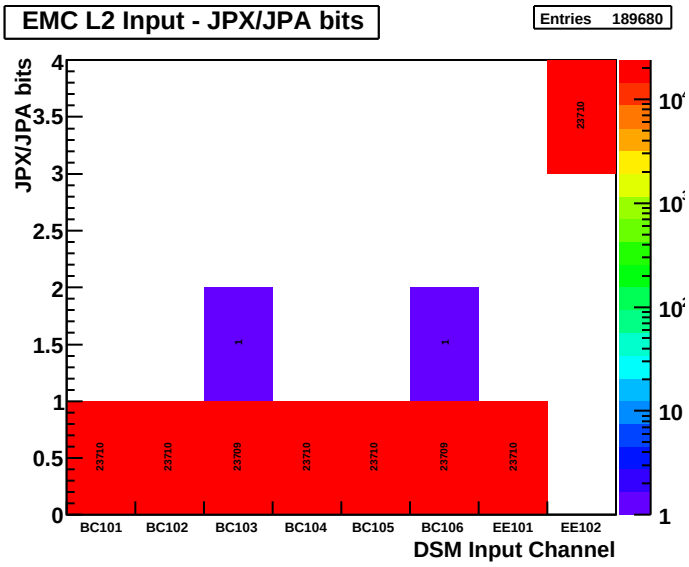

Endcap EMC L1 Input - Low Eta Sum
Entries 23710
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

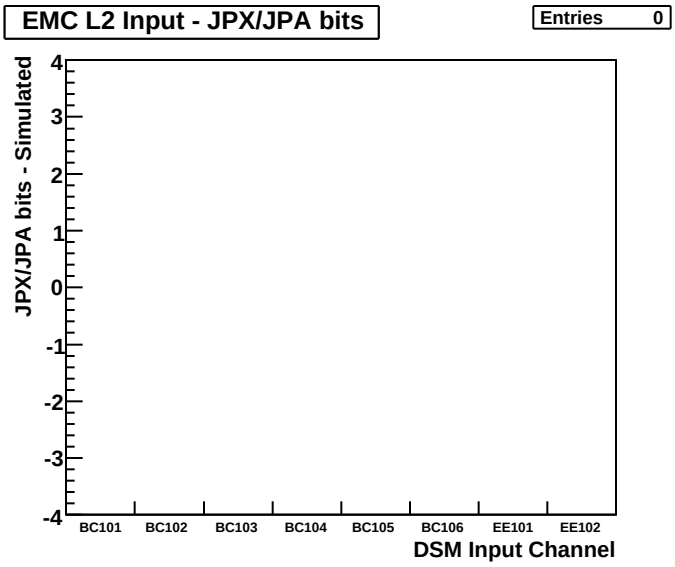

Endcap EMC L1 Input - High Eta Sum
Entries 284520
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

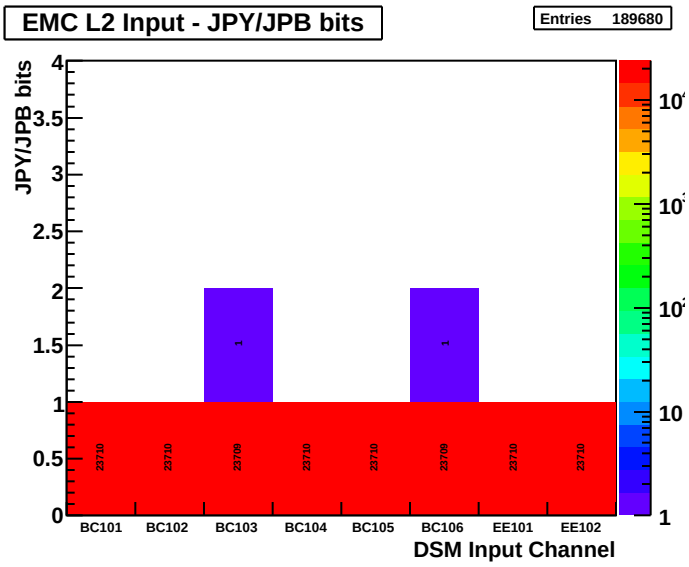

Endcap EMC L1 Input - High Eta Sum
Entries 22647
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

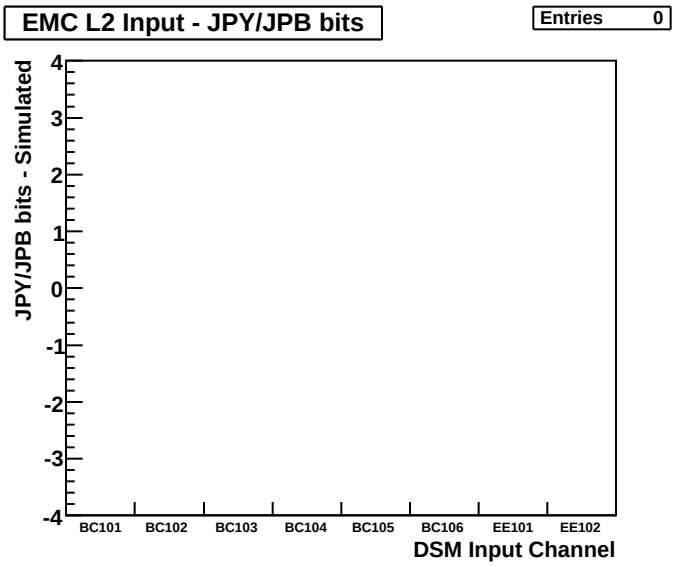

Endcap EMC L1 Input - High Tower Bits
Entries 284520
High Tower Bits
EE101
EE102
23710
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

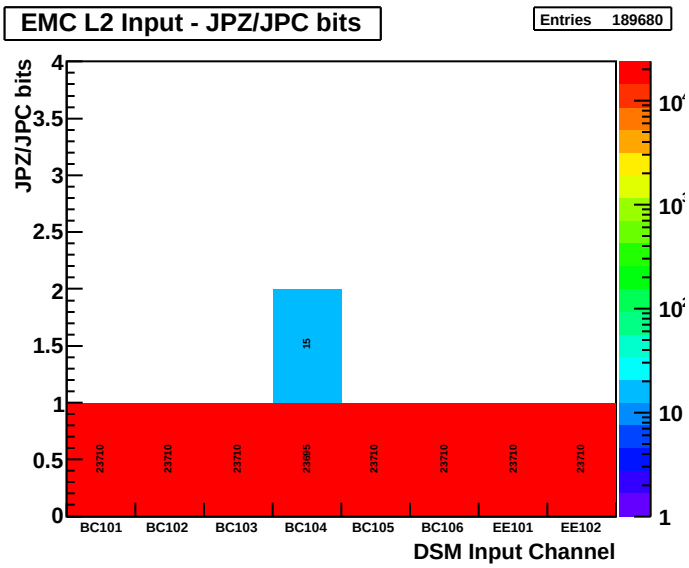

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

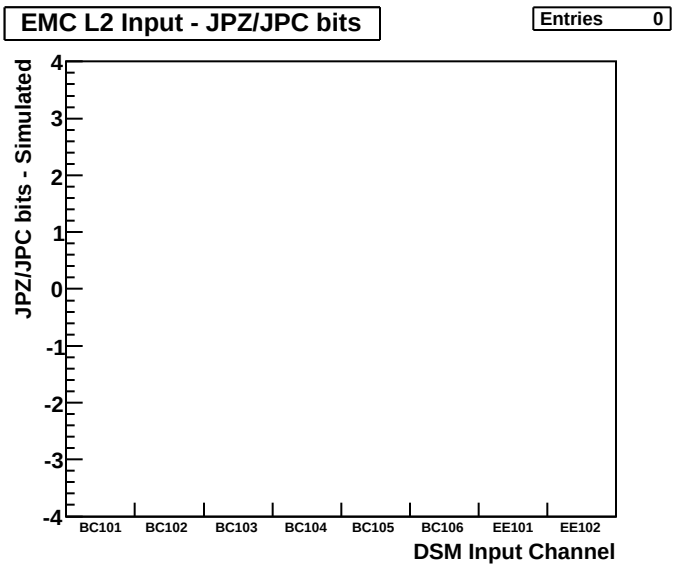

EMC L2 Input - JPX/JPA bits
Entries 189680
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

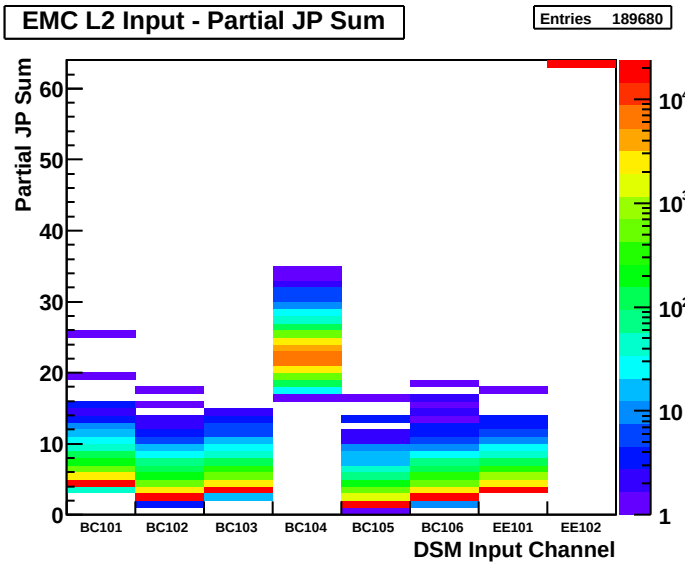

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

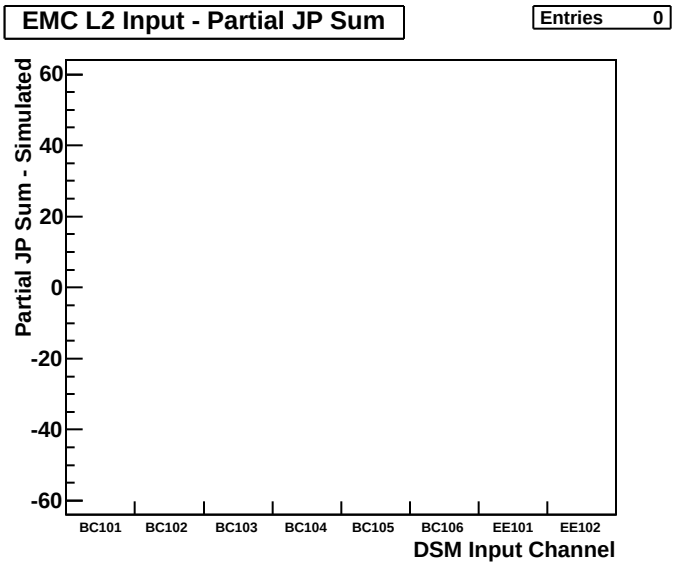

EMC L2 Input - JPY/JPB bits
Entries 189680
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

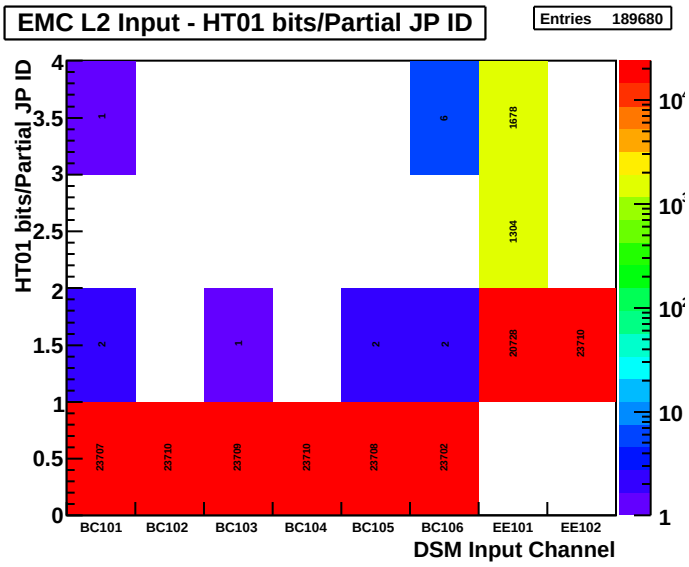

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

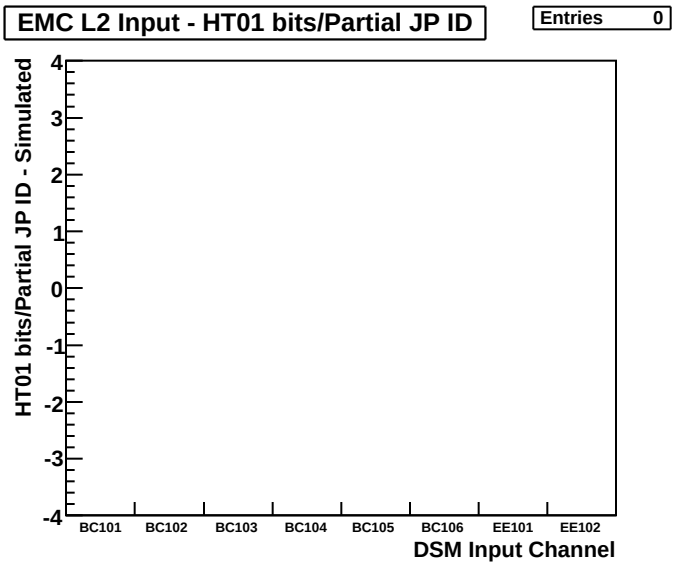

EMC L2 Input - JPZ/JPC bits
Entries 189680
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

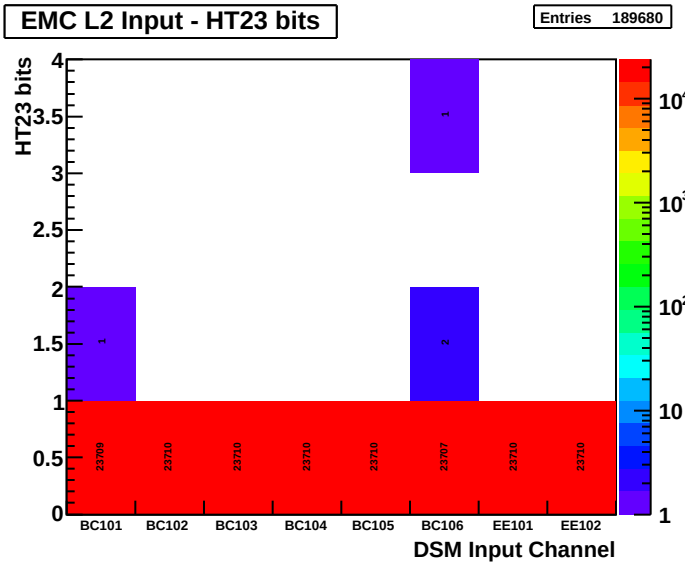

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

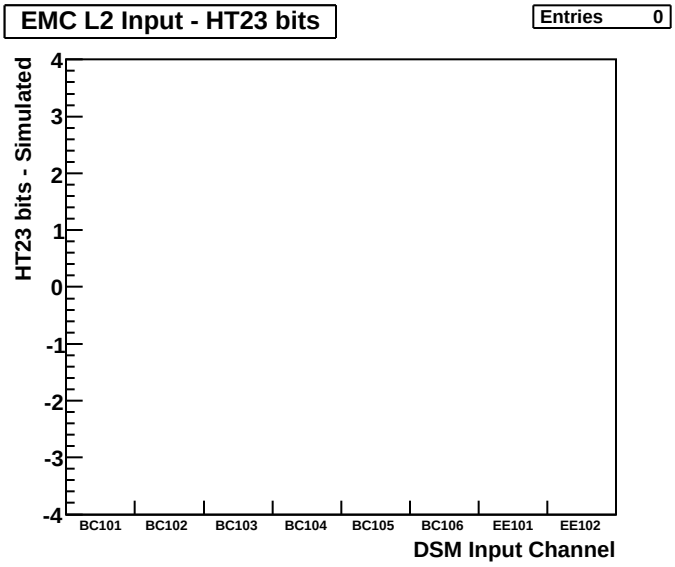

EMC L2 Input - Partial JP Sum
Entries 189680
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

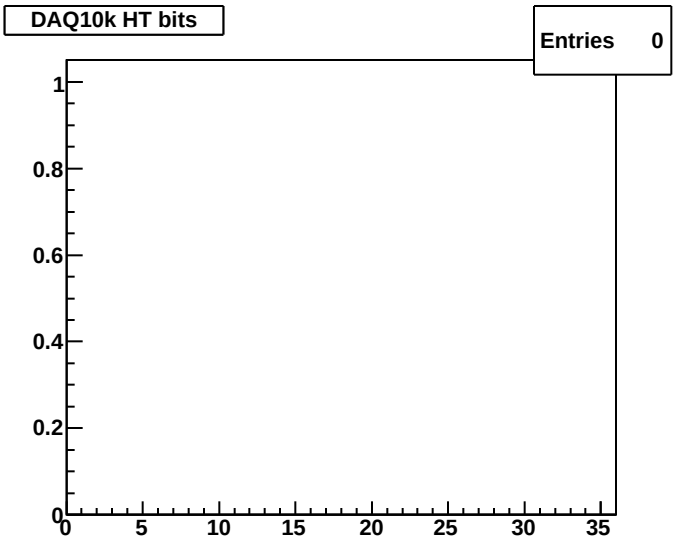

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

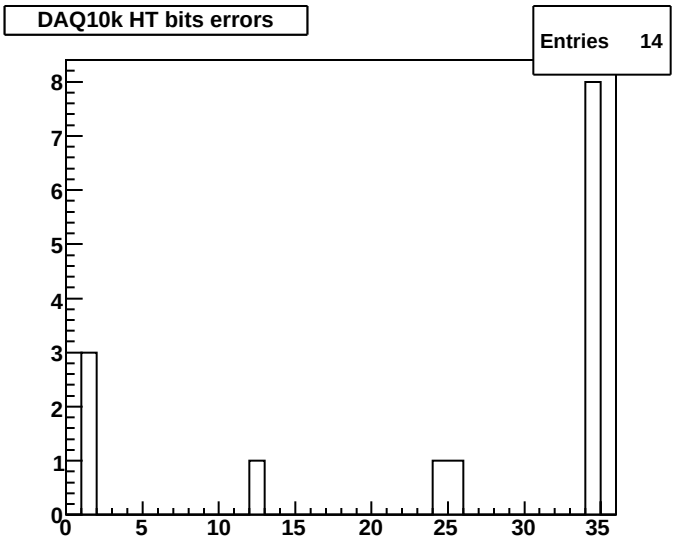

EMC L2 Input - HT01 bits/Partial JP ID
Entries 189680
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

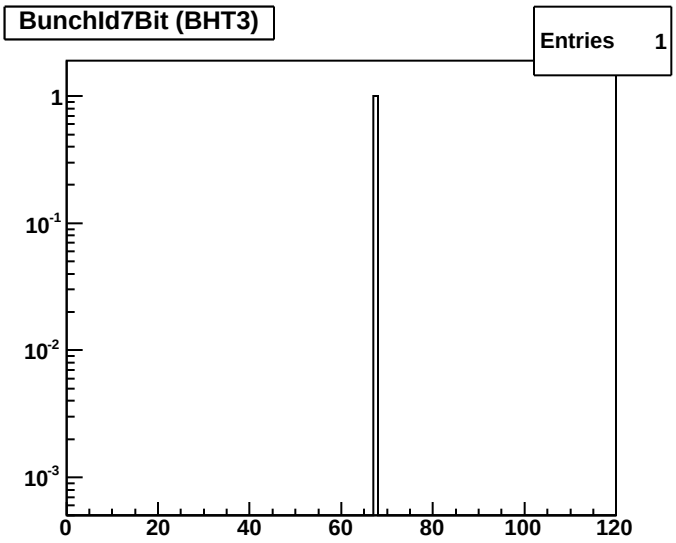

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

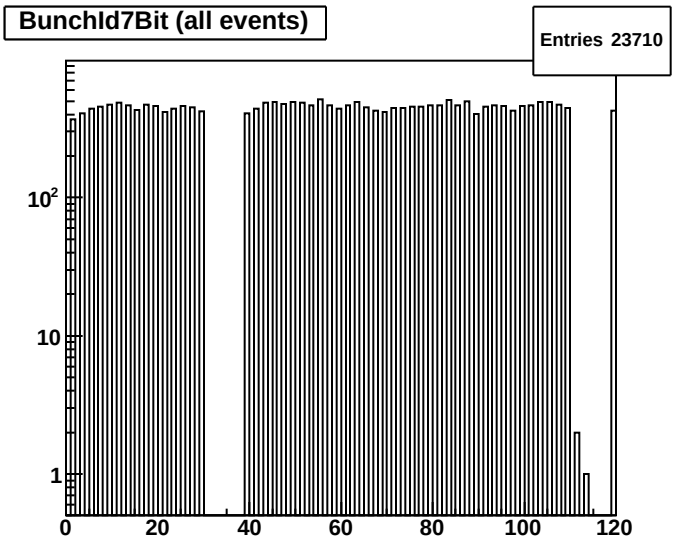

EMC L2 Input - HT23 bits
Entries 189680
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

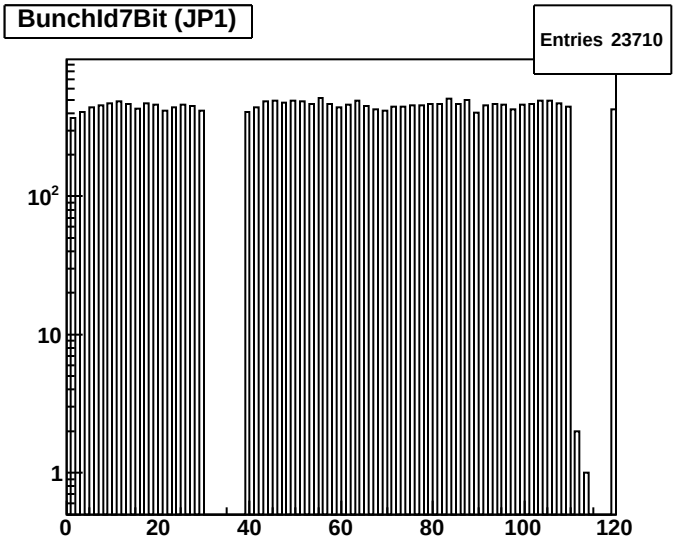

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

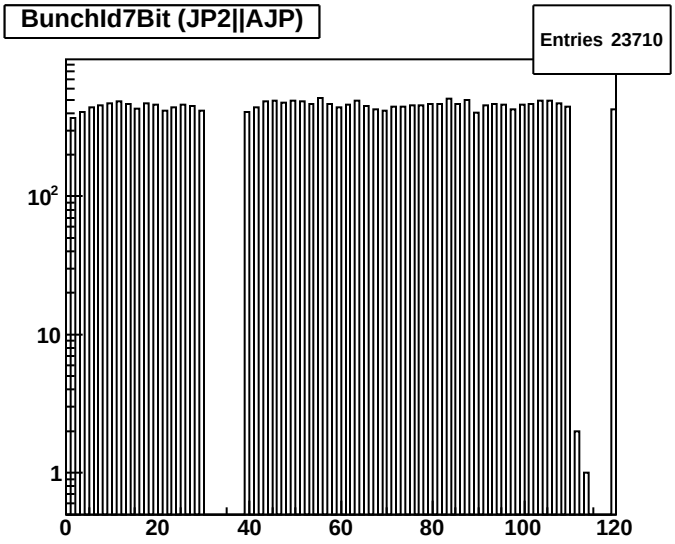

DAQ10k HT bits
Entries 0

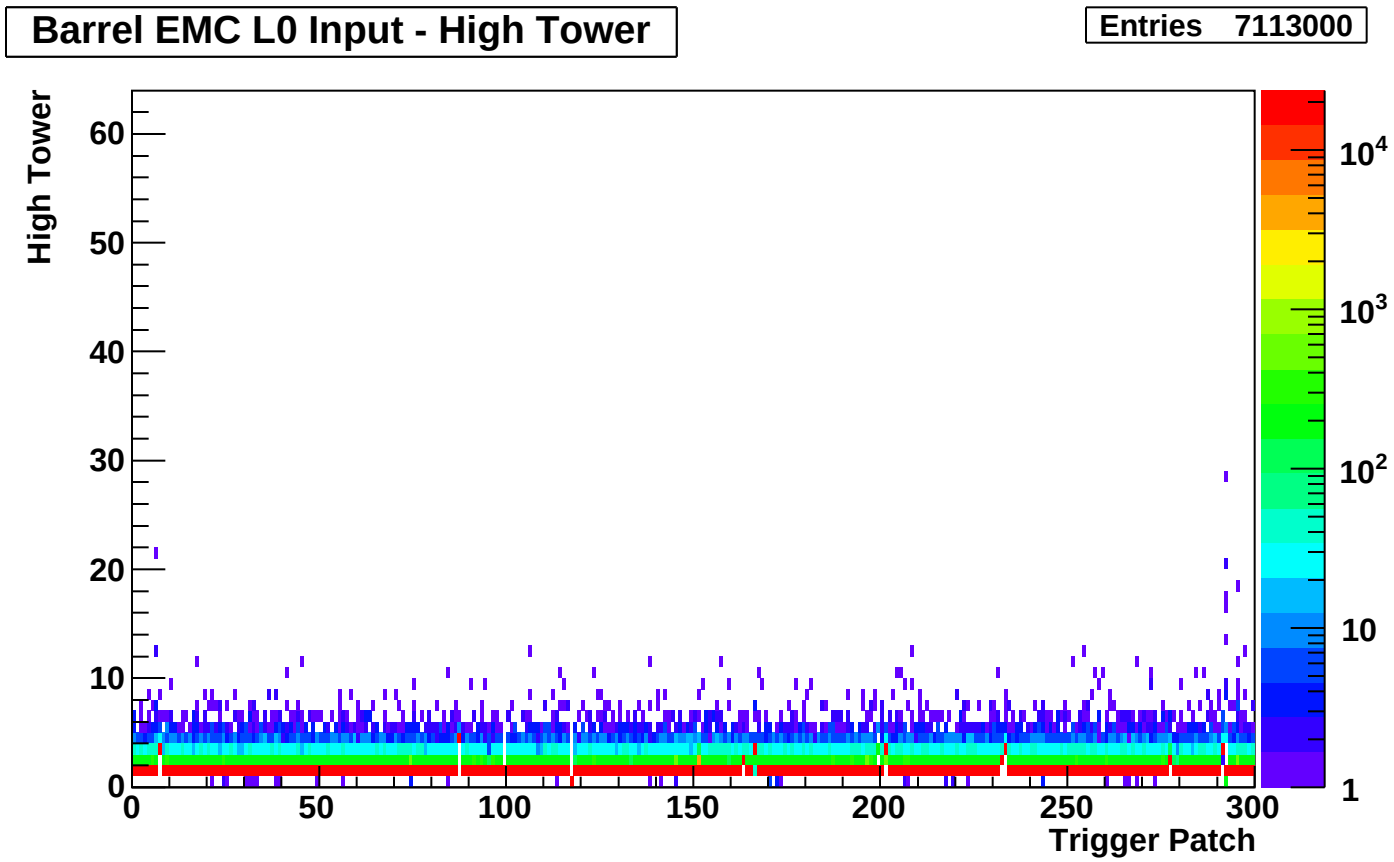

DAQ10k HT bits errors
Entries 14

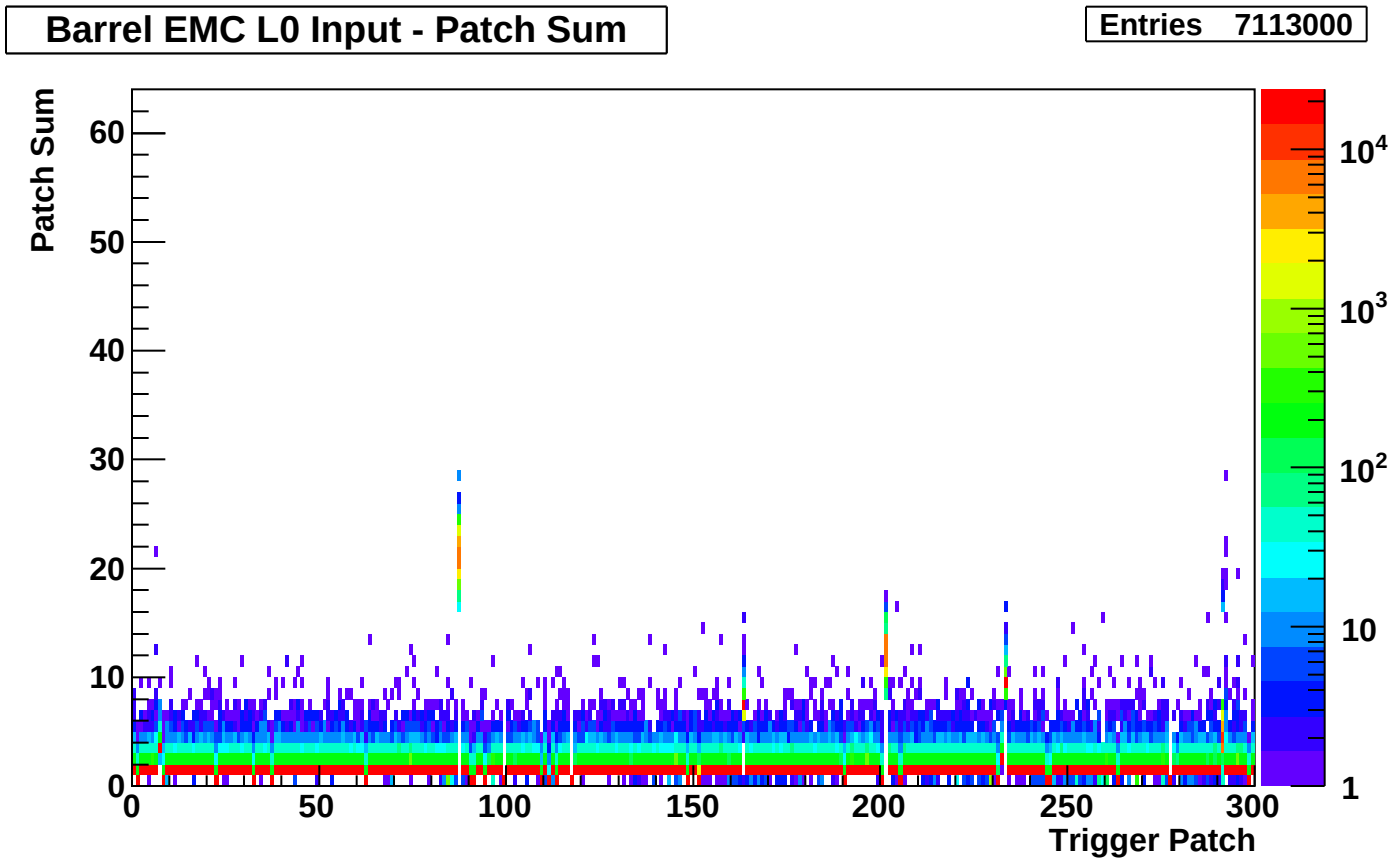

BunchId7Bit (BHT3)
Entries 1

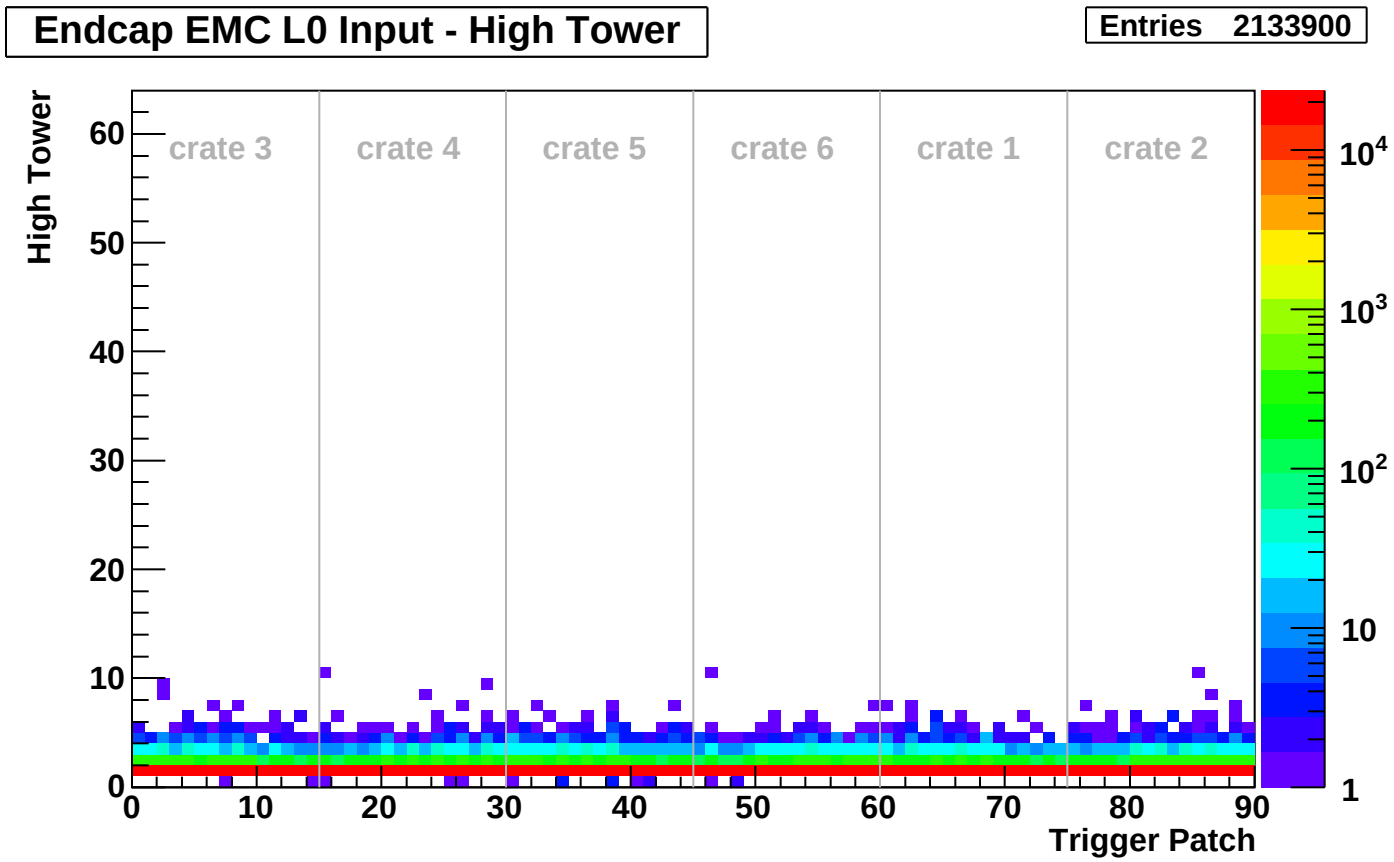

BunchId7Bit (all events)
Entries 23710

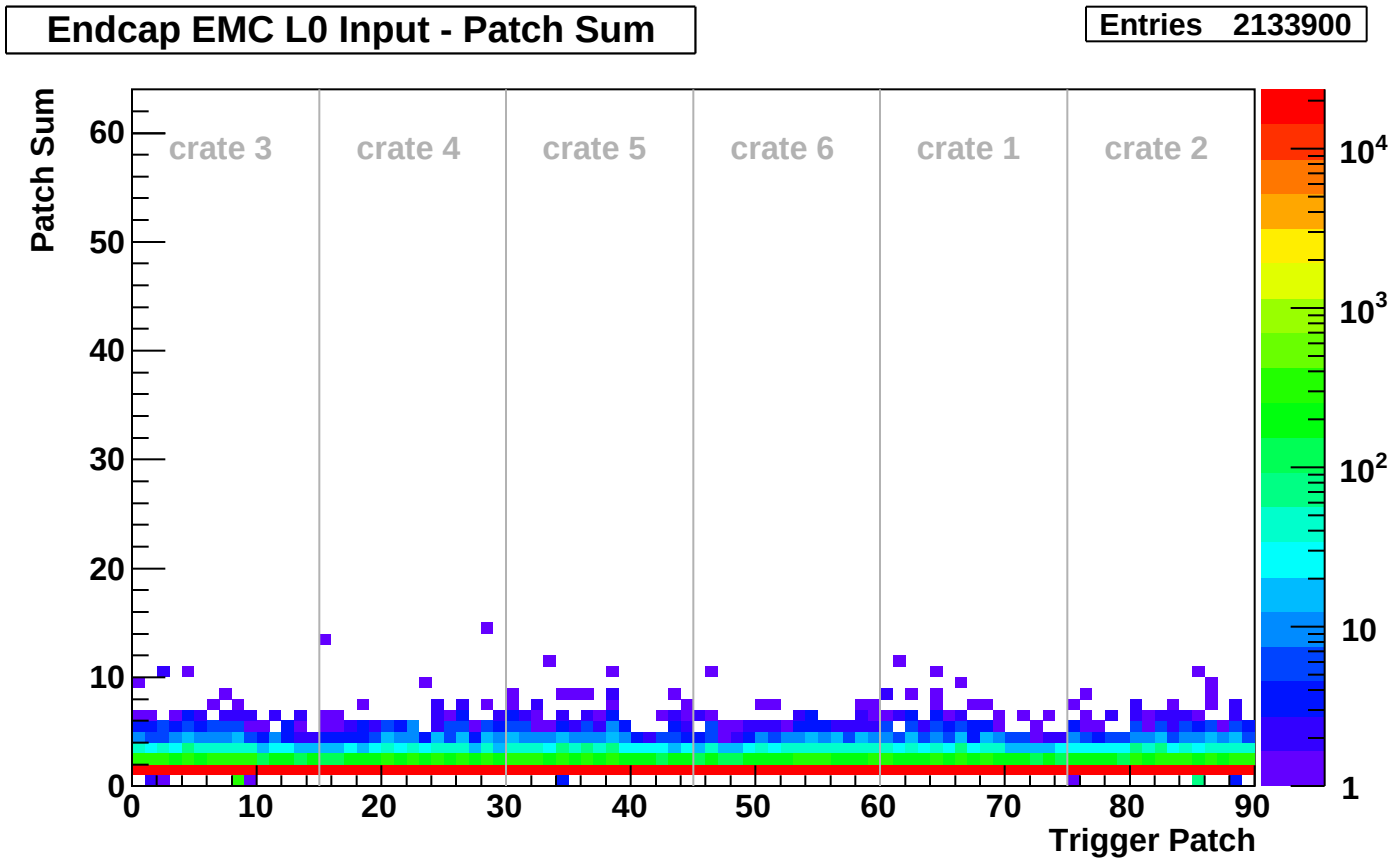

BunchId7Bit (JP1)
Entries 23710

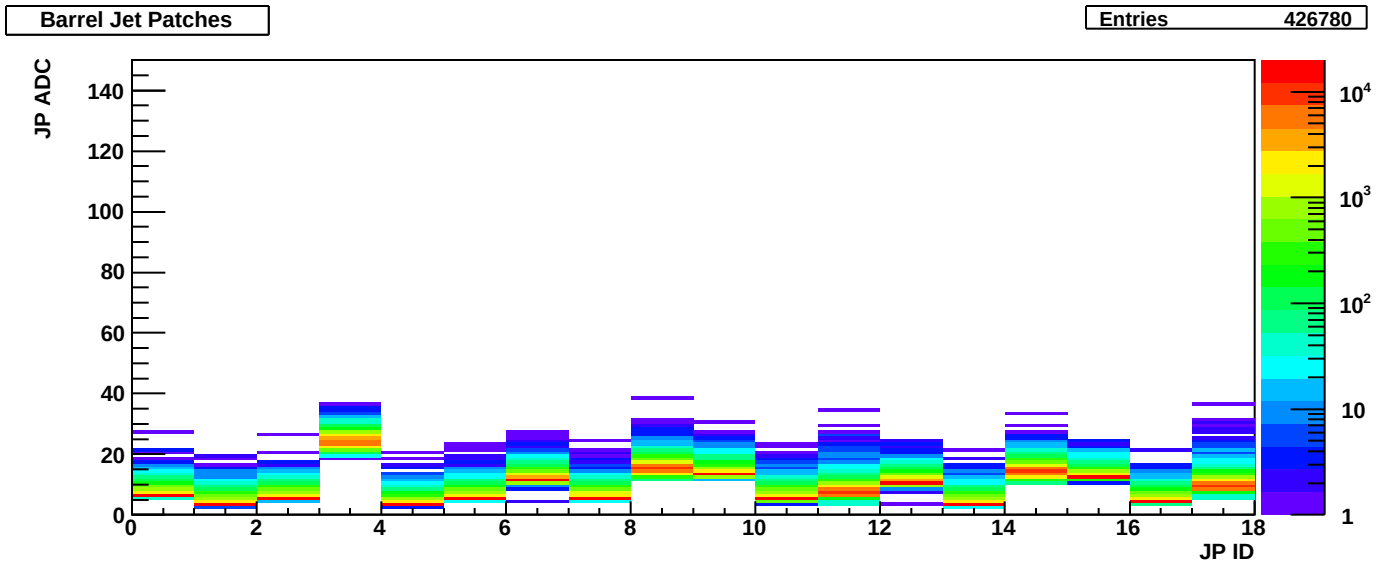

BunchId7Bit (JP2||AJP)
Entries 23710

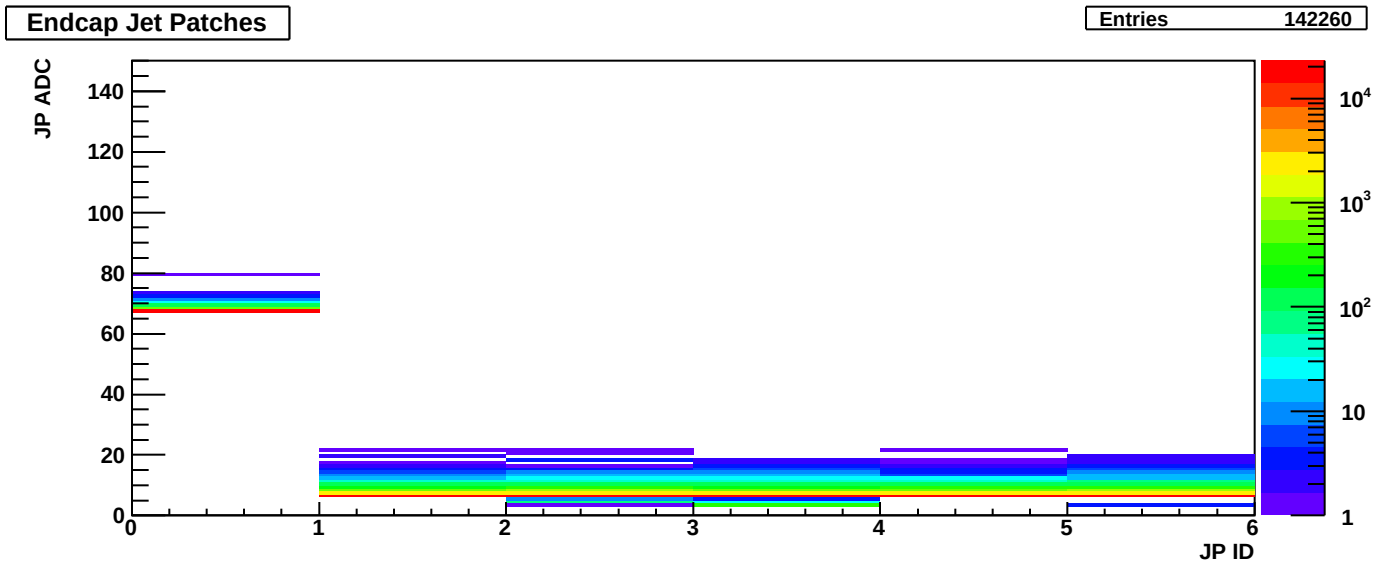

Barrel EMC L0 Input - High Tower
Entries 7113000
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

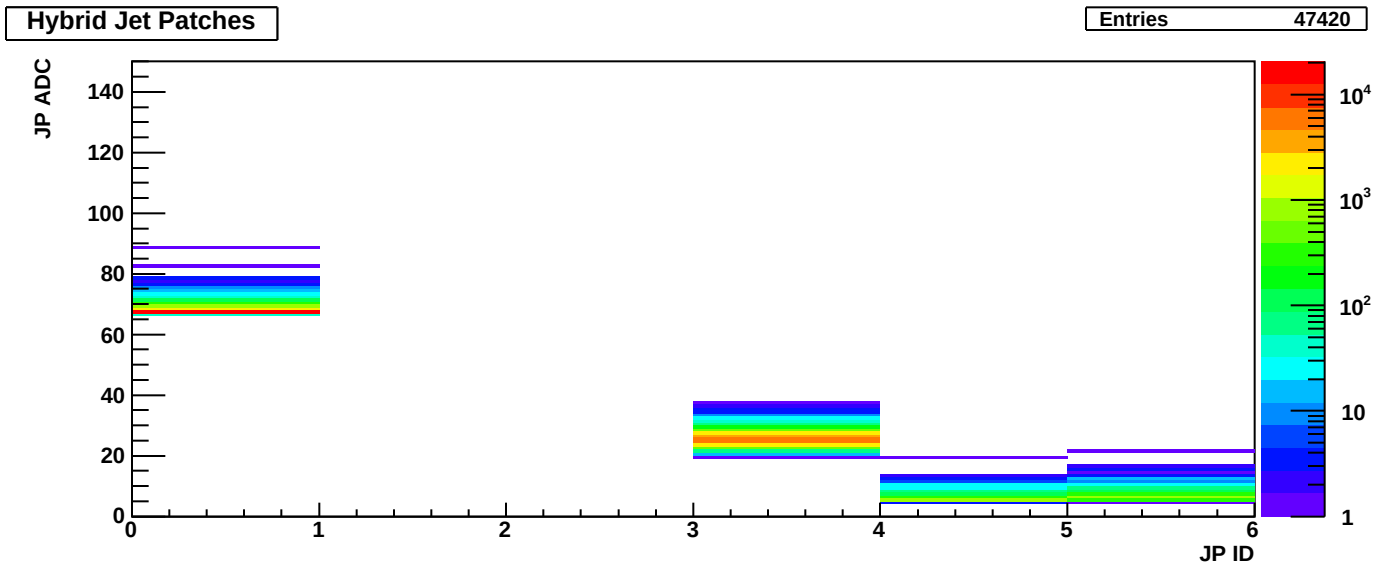

Barrel EMC L0 Input - Patch Sum
Entries 7113000
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

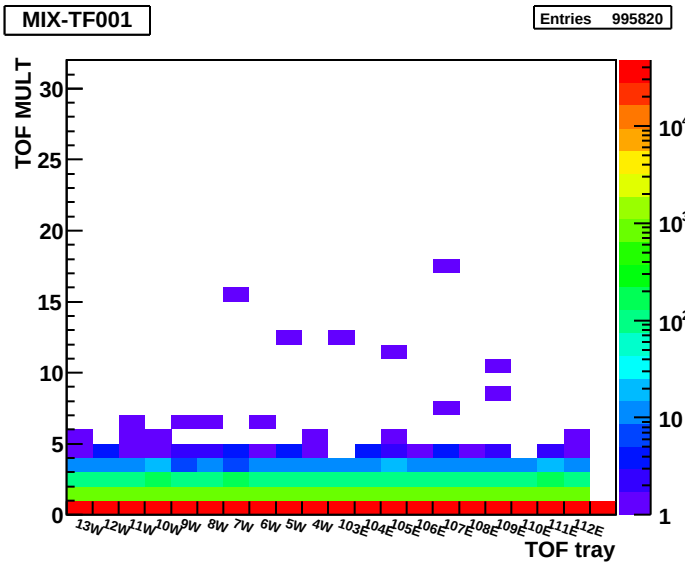

Endcap EMC L0 Input - High Tower
Entries 2133900
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

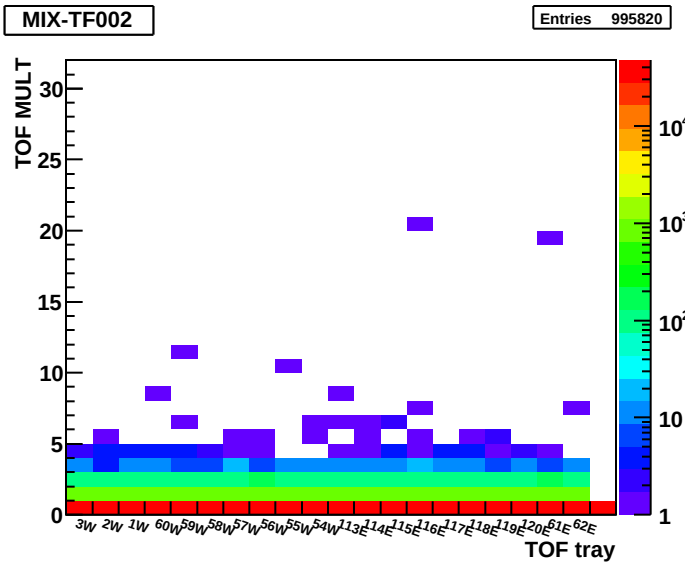

Endcap EMC L0 Input - Patch Sum
Entries 2133900
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

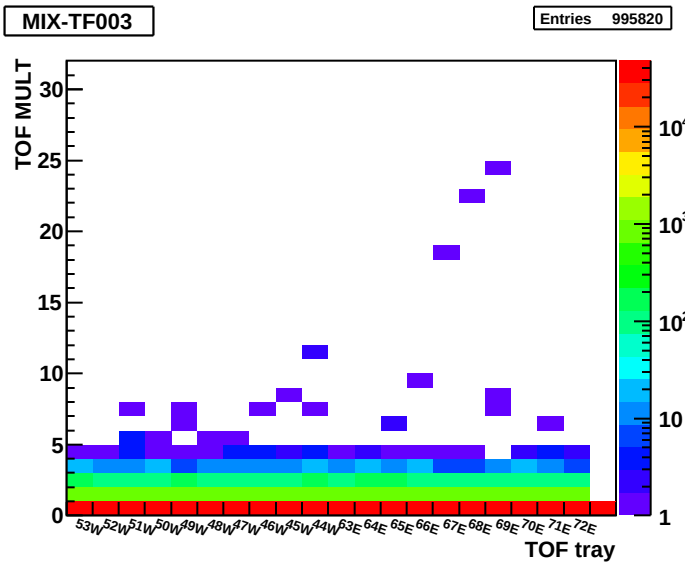

Barrel Jet Patches
Entries 426780
JP ADC
JP ID

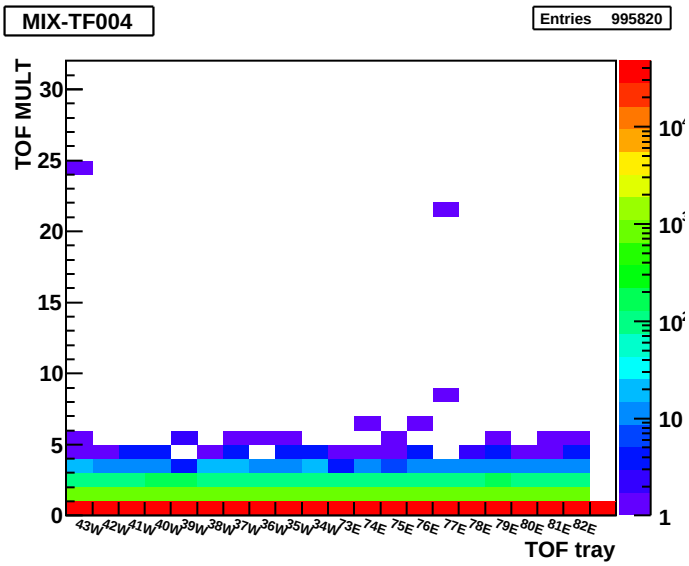

Endcap Jet Patches
Entries 142260
JP ADC
JP ID

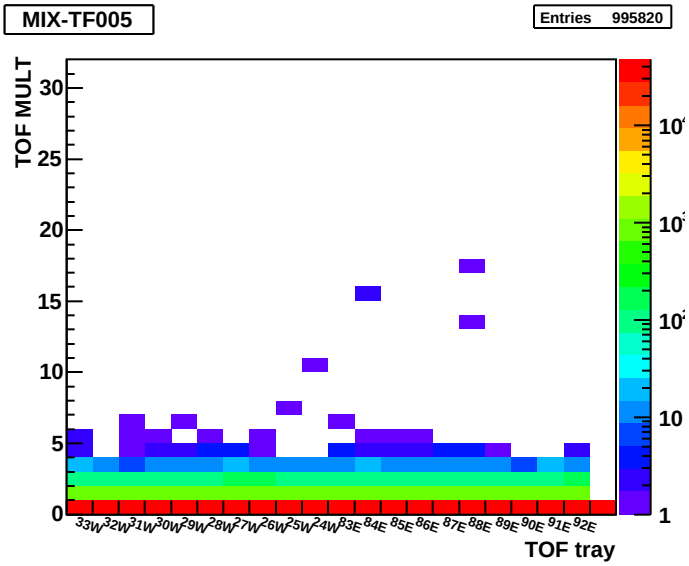

Hybrid Jet Patches
Entries 47420
JP ADC
JP ID

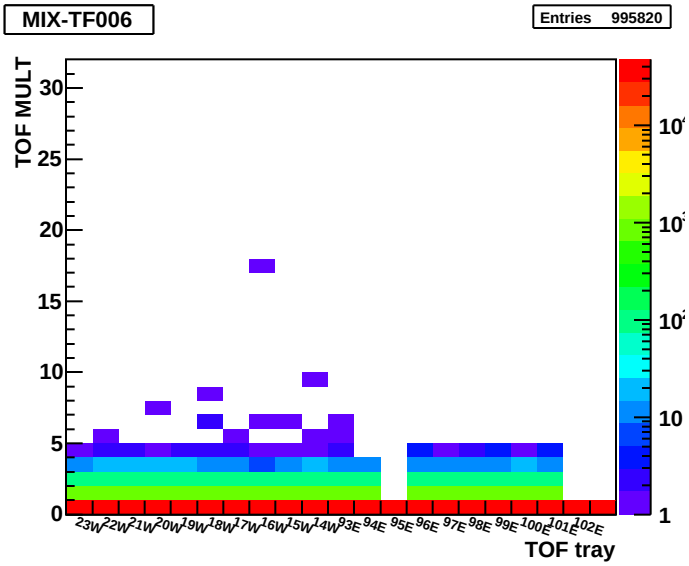

MIX-TF001
Entries 995820
TOF MULT
TOF tray

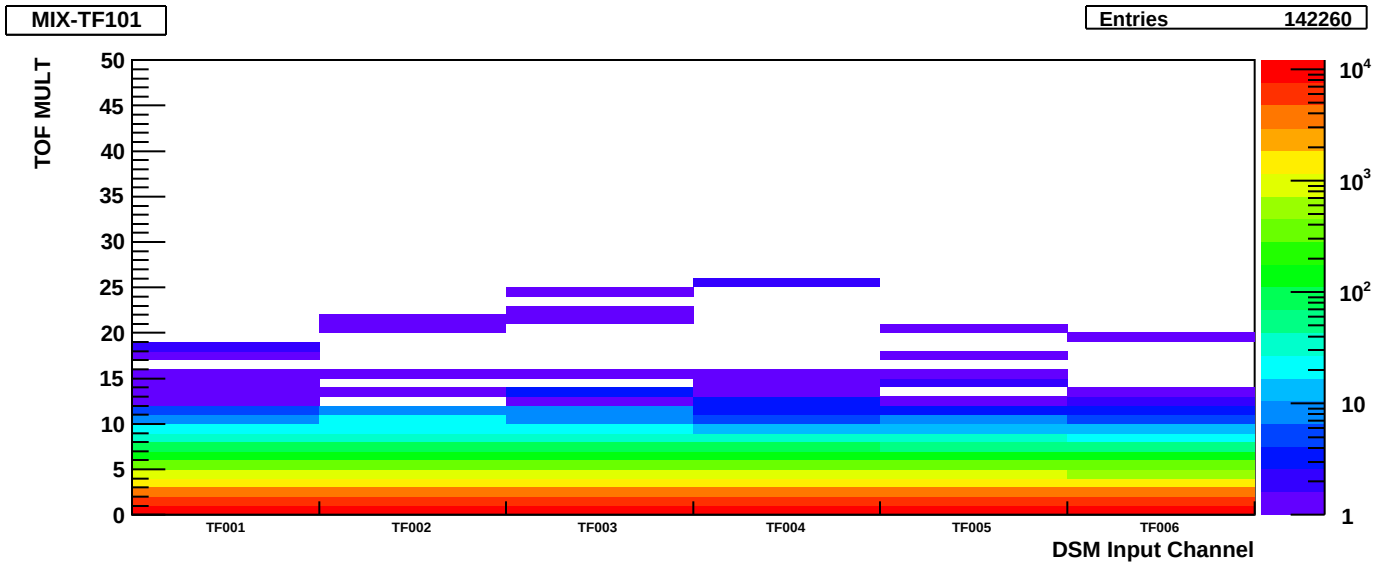

MIX-TF002
Entries 995820
TOF MULT
TOF tray

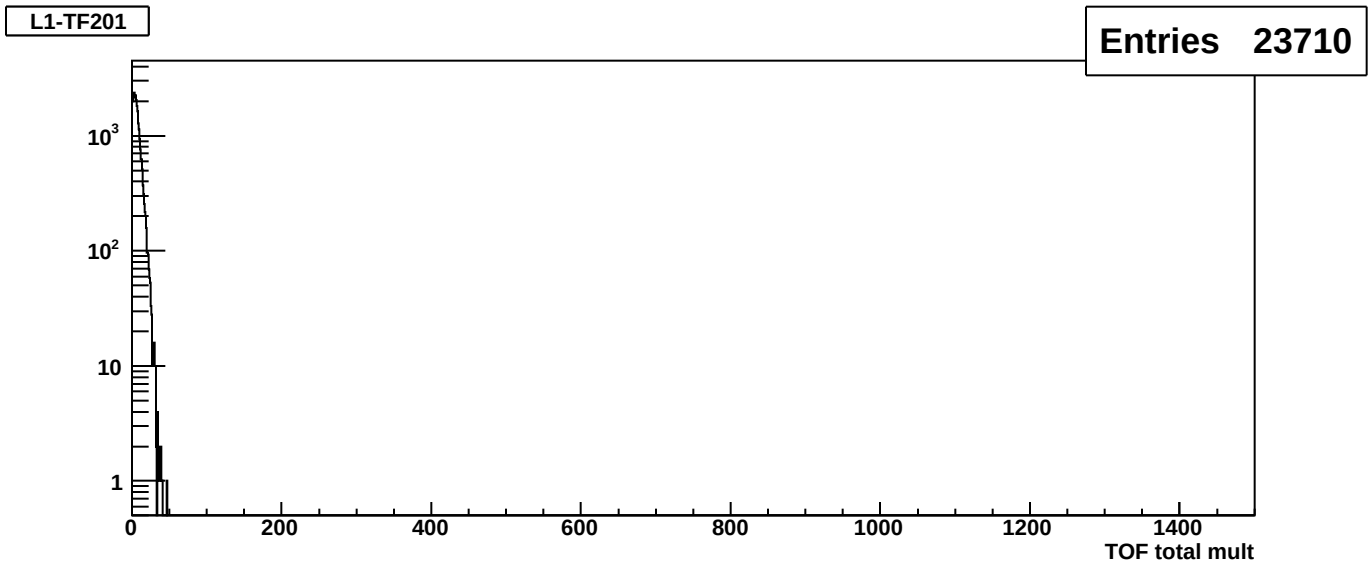

MIX-TF003
Entries 995820
TOF MULT
TOF tray

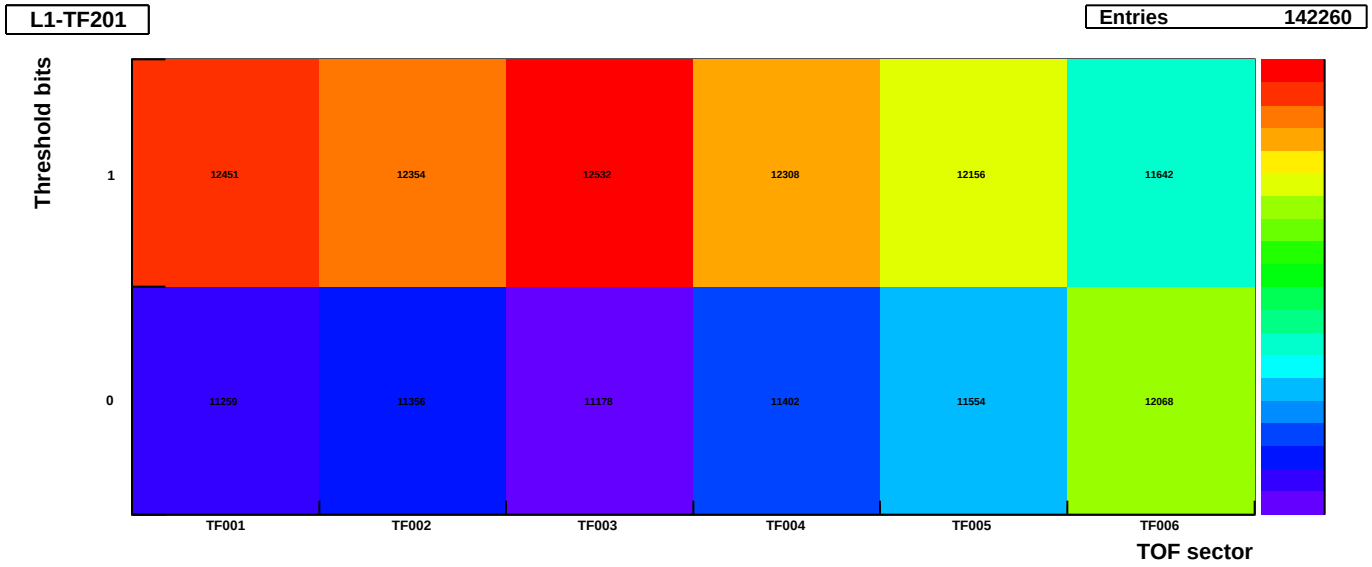

MIX-TF004
Entries 995820
TOF MULT
TOF tray

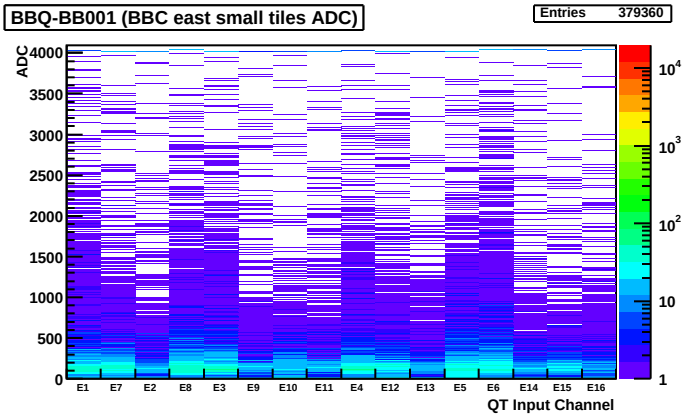

MIX-TF005
Entries 995820
TOF MULT
TOF tray

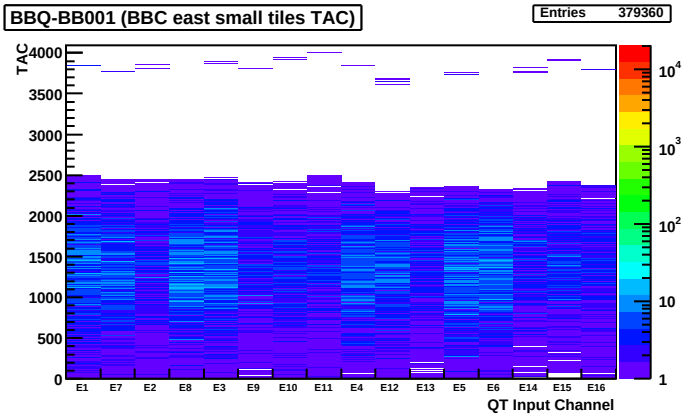

MIX-TF006
Entries 995820
TOF MULT
TOF tray

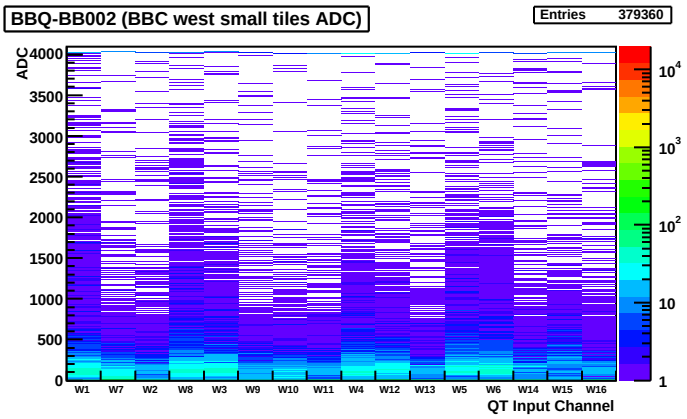

MIX-TF101
Entries 142260
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

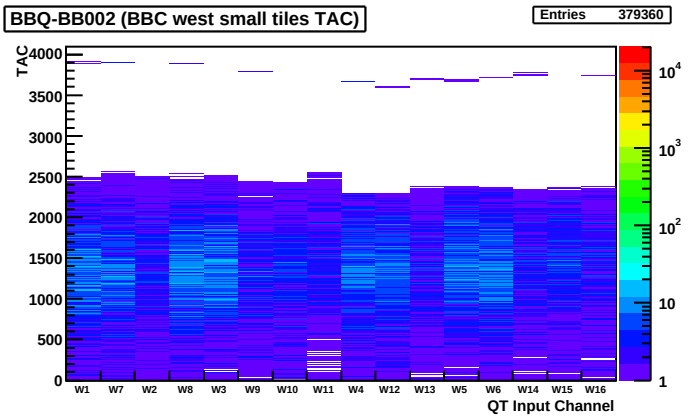

L1-TF201
Entries 23710
TOF total mult

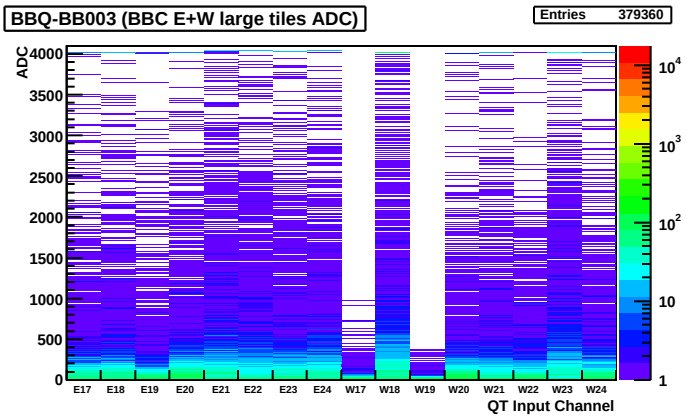

L1-TF201
Entries 142260
Threshold bits
12451
12354
12532
12308
12156
11642
11259
11356
11178
11402
11554
12068
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

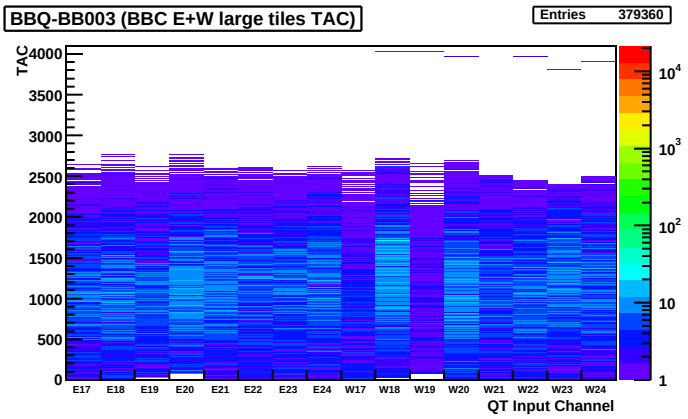

BBQ-BB001 (BBC east small tiles ADC)
Entries 379360
ADC
QT Input Channel

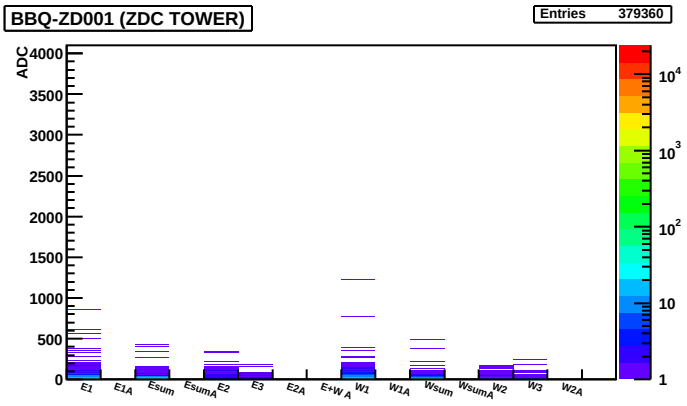

BBQ-BB001 (BBC east small tiles TAC)
Entries 379360
TAC
QT Input Channel

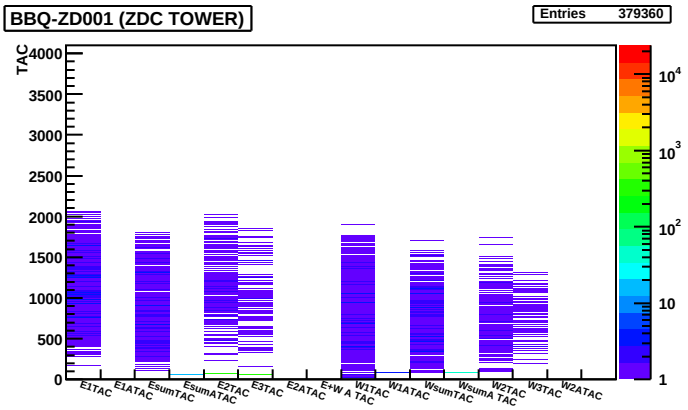

BBQ-BB002 (BBC west small tiles ADC)
Entries 379360
ADC
QT Input Channel

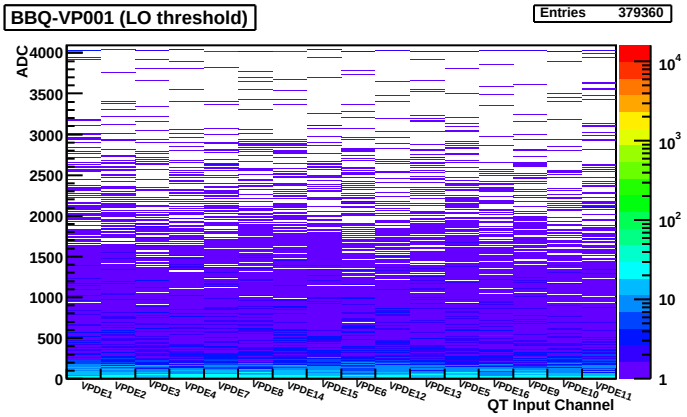

BBQ-BB002 (BBC west small tiles TAC)
Entries 379360
TAC
QT Input Channel

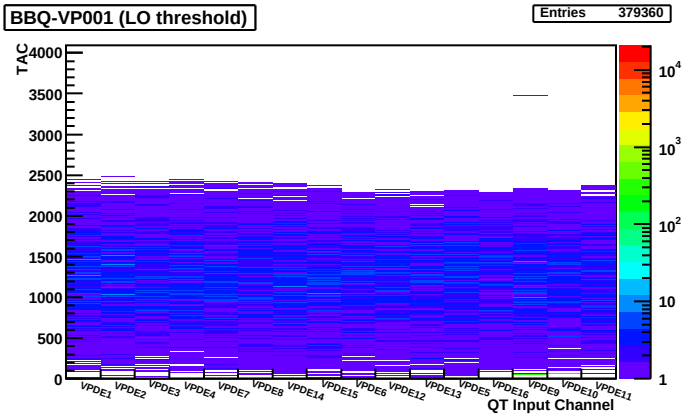

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 379360
ADC
QT Input Channel

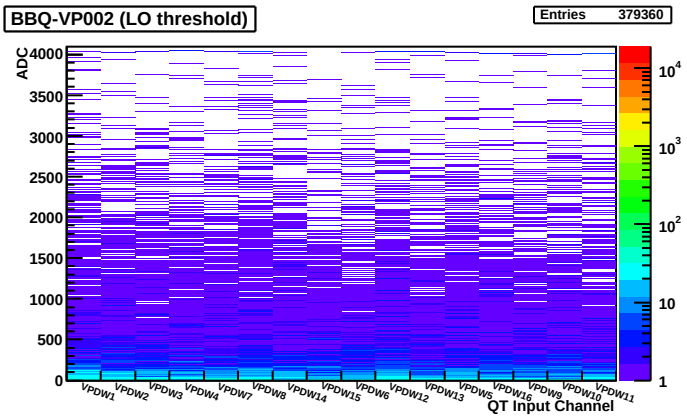

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 379360
TAC
QT Input Channel

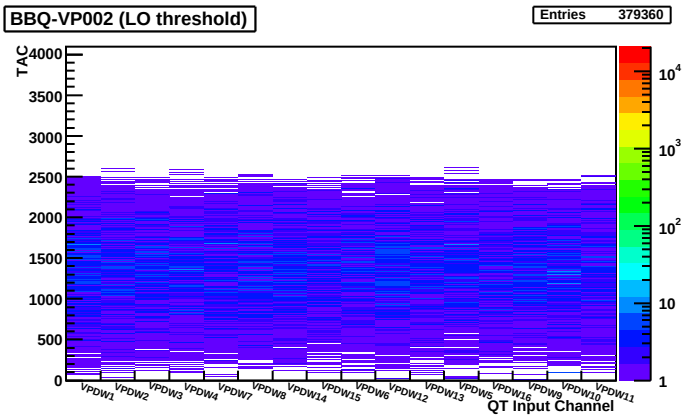

BBQ-ZD001 (ZDC TOWER)
Entries 379360
ADC

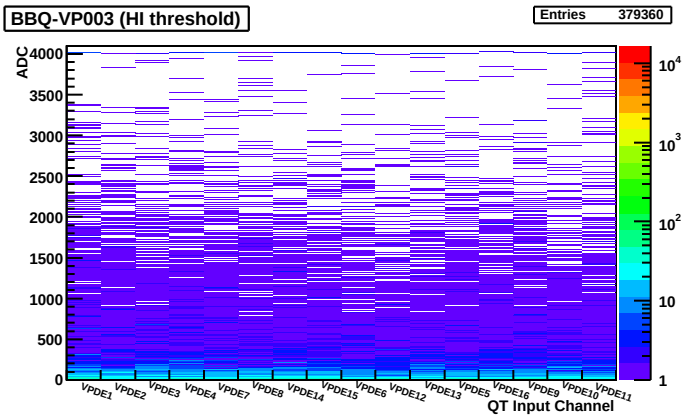

BBQ-ZD001 (ZDC TOWER)
Entries 379360
TAC

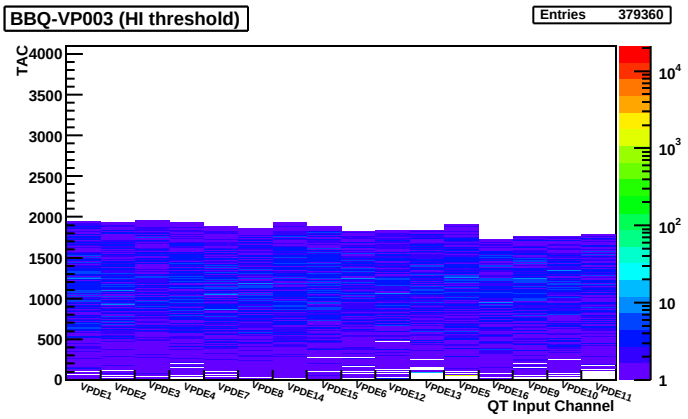

BBQ-VP001 (LO threshold)
Entries 379360
ADC
QT Input Channel

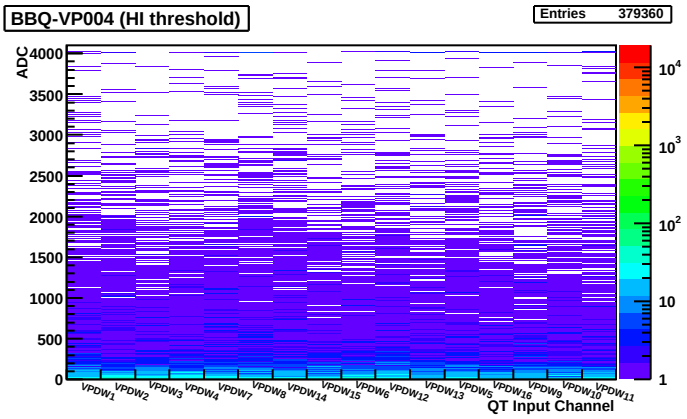

BBQ-VP001 (LO threshold)
Entries 379360
TAC
QT Input Channel

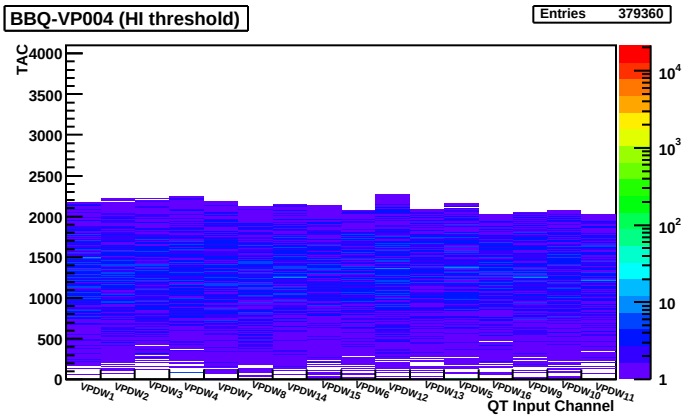

BBQ-VP002 (LO threshold)
Entries 379360
ADC
QT Input Channel

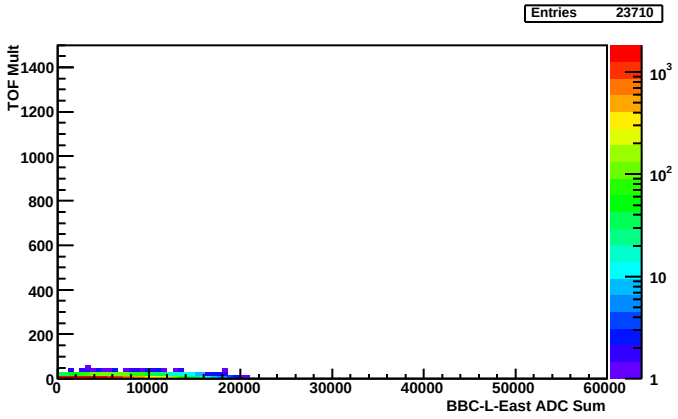

BBQ-VP002 (LO threshold)
Entries 379360
TAC
QT Input Channel

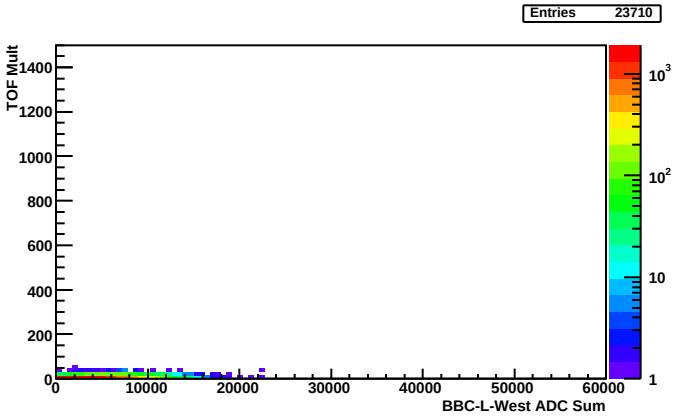

BBQ-VP003 (HI threshold)
Entries 379360
ADC
QT Input Channel

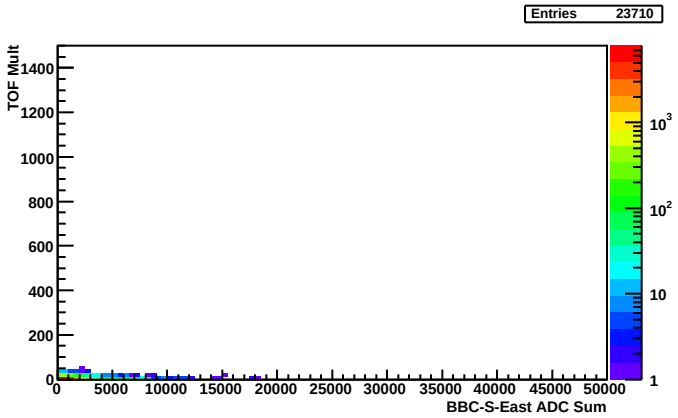

BBQ-VP003 (HI threshold)
Entries 379360
TAC
QT Input Channel

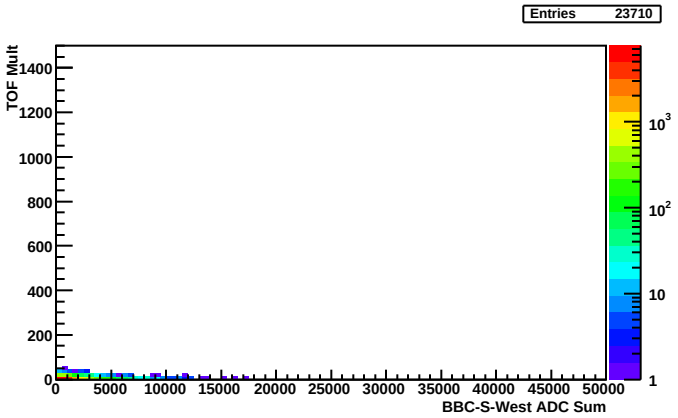

BBQ-VP004 (HI threshold)
Entries 379360
ADC
QT Input Channel

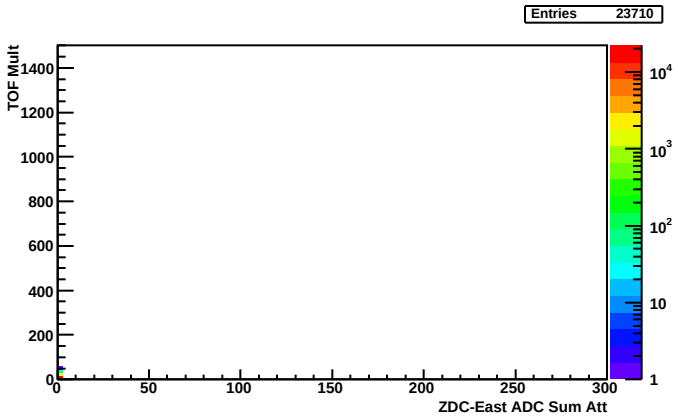

BBQ-VP004 (HI threshold)
Entries 379360
TAC
QT Input Channel

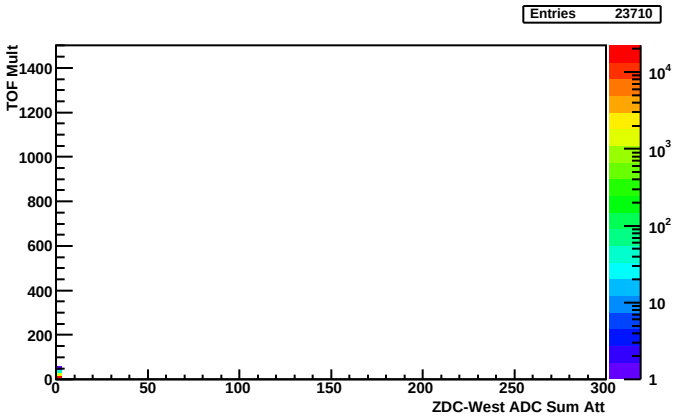

Entries 23710
TOF Mult
BBC-L-East ADC Sum

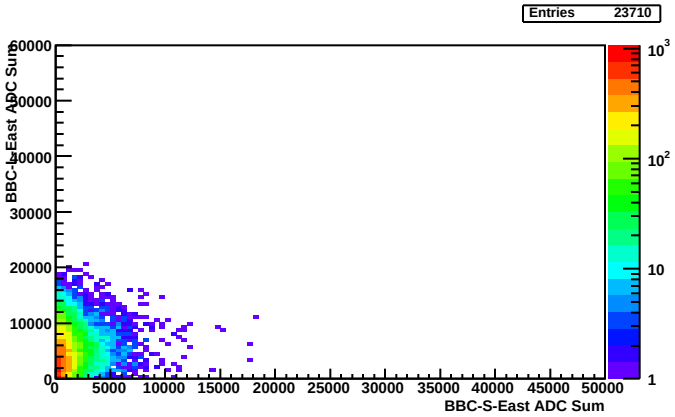

Entries 23710
TOF Mult
BBC-L-West ADC Sum

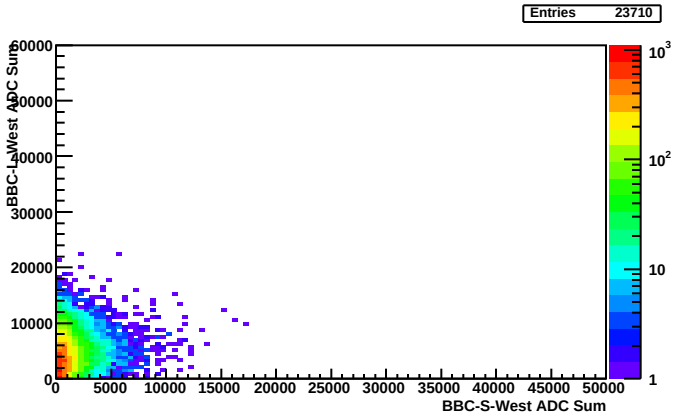

Entries 23710
TOF Mult
BBC-S-East ADC Sum

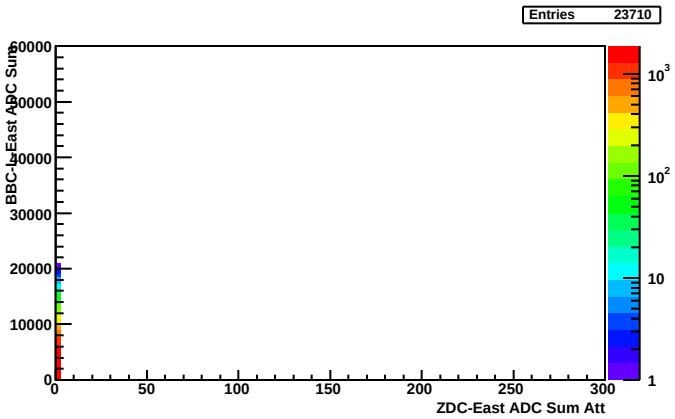

Entries 23710
TOF Mult
BBC-S-West ADC Sum

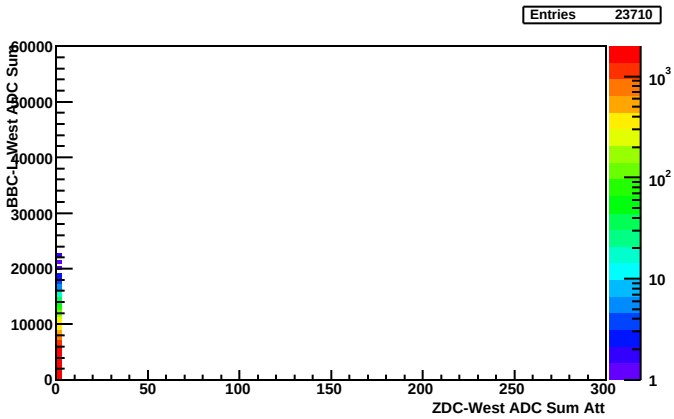

Entries 23710
TOF Mult
ZDC-East ADC Sum Att

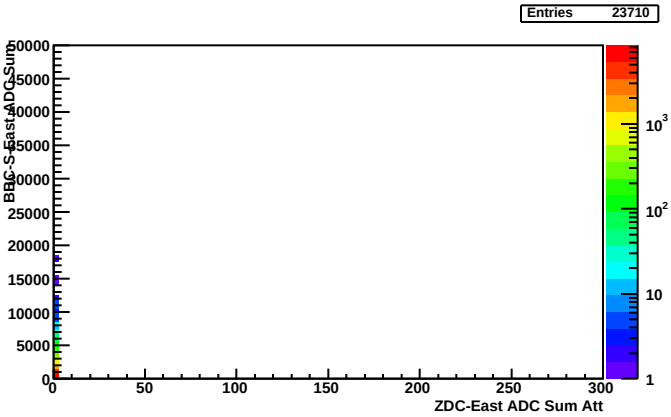

Entries 23710
TOF Mult
ZDC-West ADC Sum Att

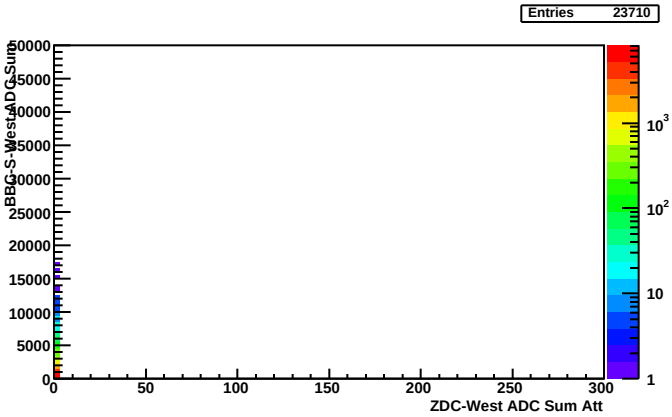

Entries 23710
BBC-L-East ADC Sum
BBC-S-East ADC Sum

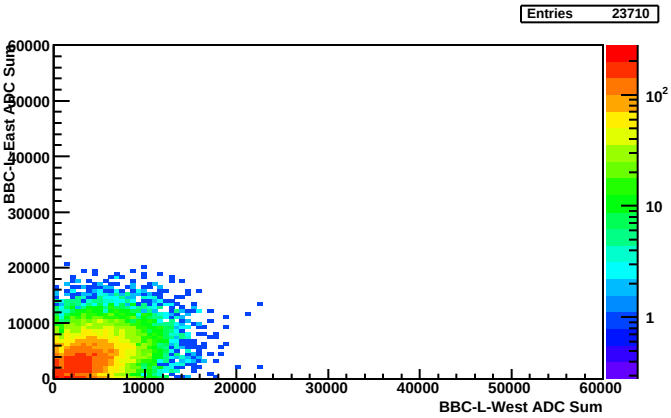

Entries 23710
BBC-L-West ADC Sum
BBC-S-West ADC Sum

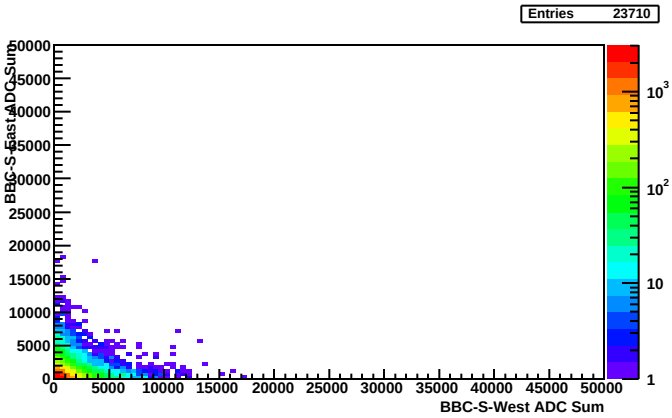

Entries 23710
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

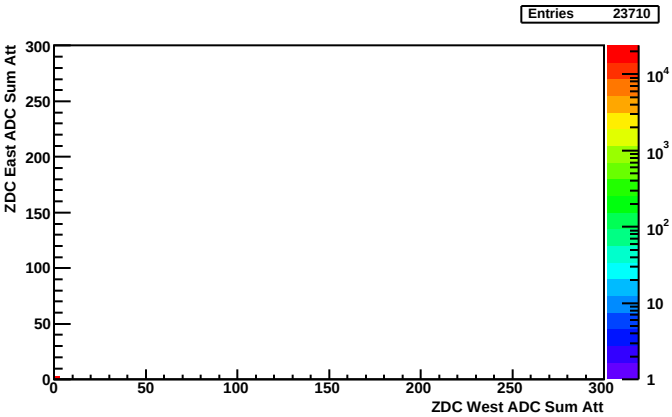

Entries 23710
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

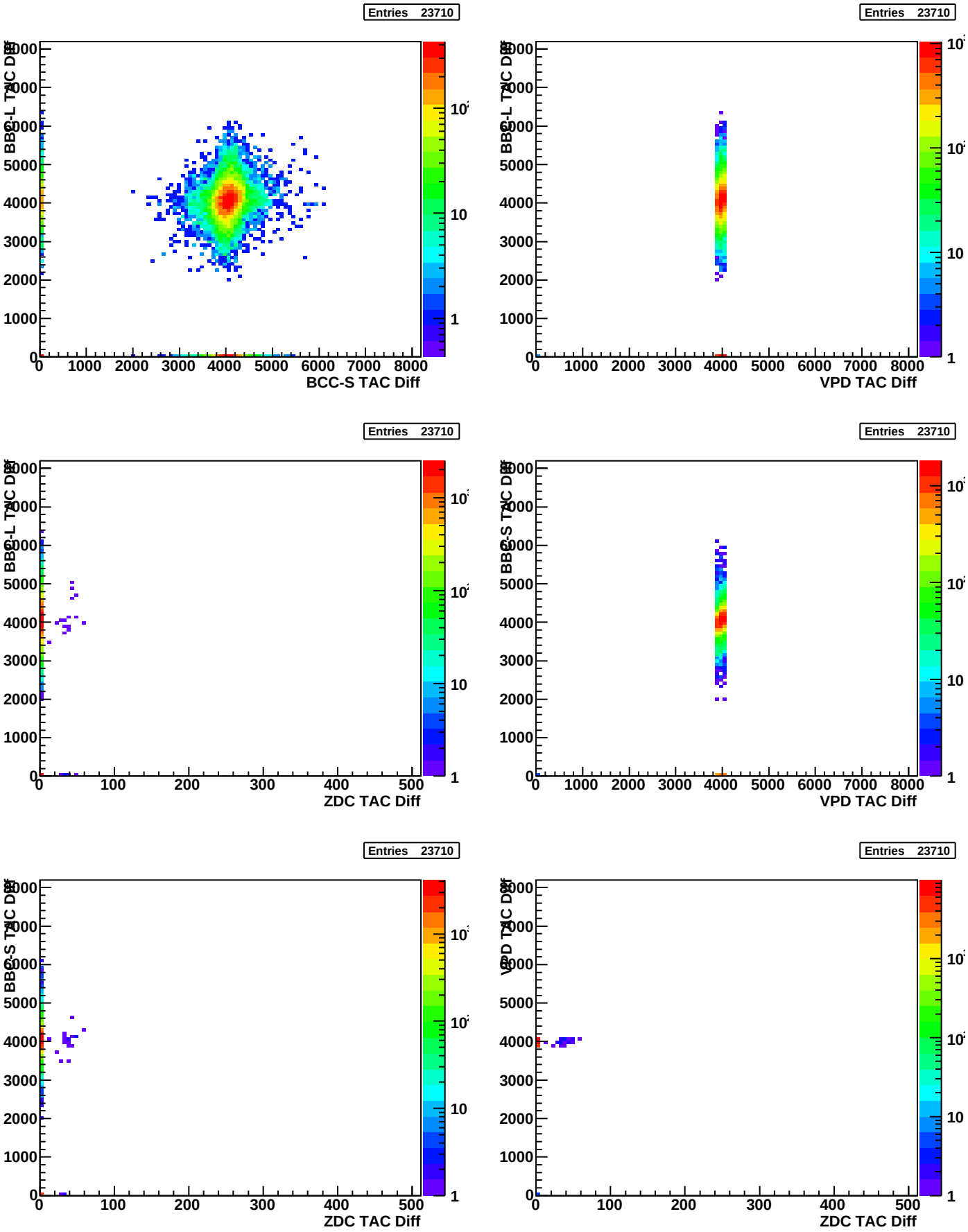

Entries 23710
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

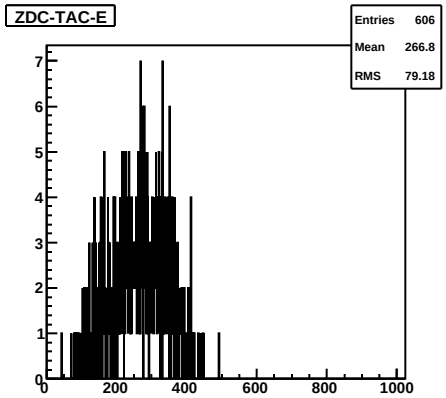

Entries 23710
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

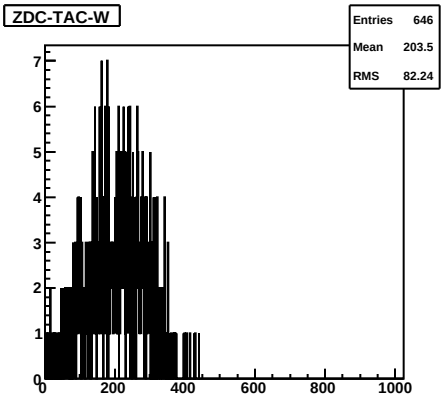

Entries 23710
BBC-L-East ADC Sum
BBC-L-West ADC Sum

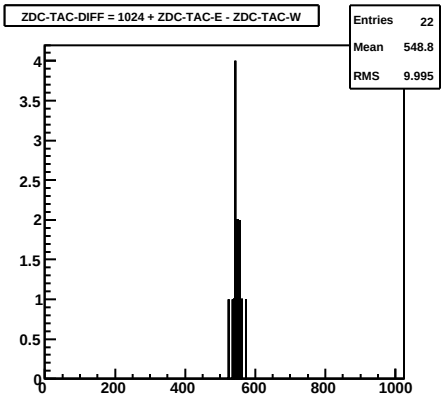

Entries 23710
BBC-S-East ADC Sum
BBC-S-West ADC Sum

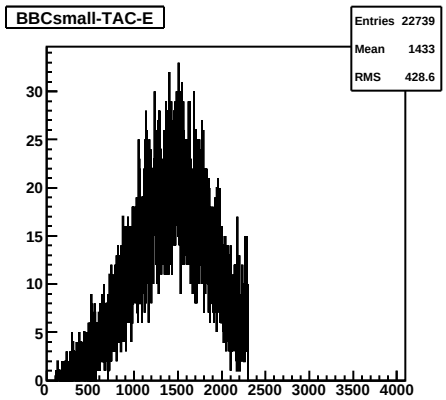

Entries 23710
ZDC East ADC Sum Att
ZDC West ADC Sum Att

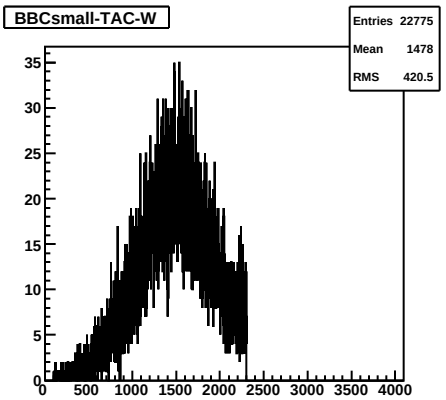

Entries 23710
BBC-L TAC Diff
BCC-S TAC Diff
Entries 23710
BBC-L TAC Diff
VPD TAC Diff
Entries 23710
BBC-L TAC Diff
ZDC TAC Diff
Entries 23710
BBC-S TAC Diff
VPD TAC Diff
Entries 23710
BBC-S TAC Diff
ZDC TAC Diff
Entries 23710
VPD TAC Diff
ZDC TAC Diff

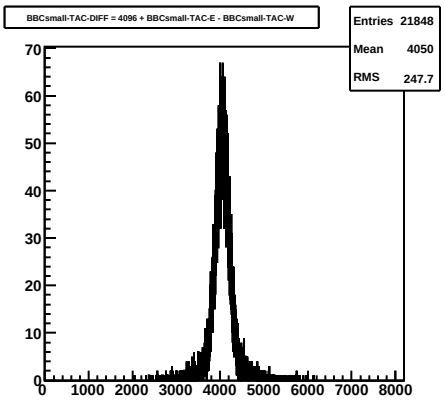

ZDC-TAC-E
Entries 606
Mean 266.8
RMS 79.18

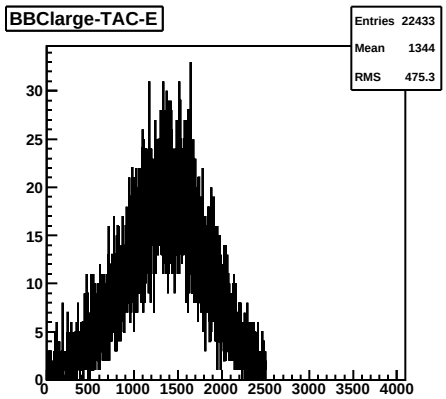

ZDC-TAC-W
Entries 646
Mean 203.5
RMS 82.24

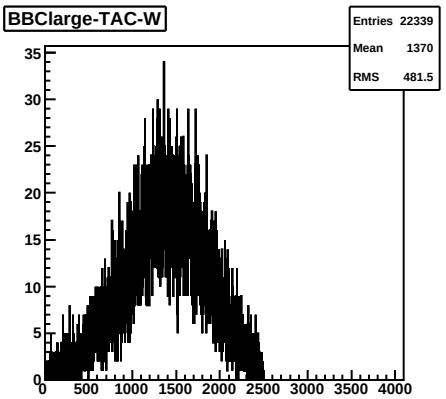

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 22
Mean 548.8
RMS 9.995

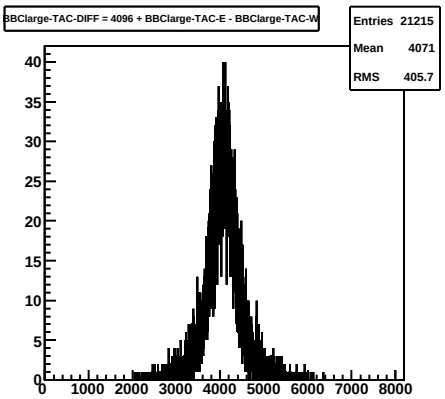

BBCsmall-TAC-E
Entries 22739
Mean 1433
RMS 428.6

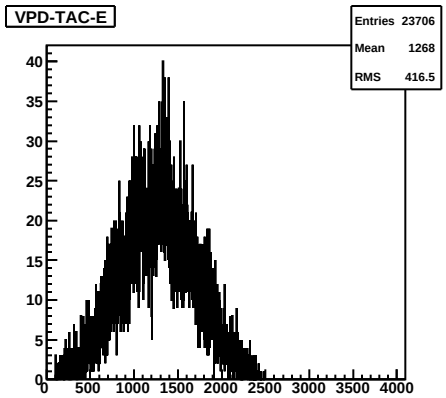

BBCsmall-TAC-W
Entries 22775
Mean 1478
RMS 420.5

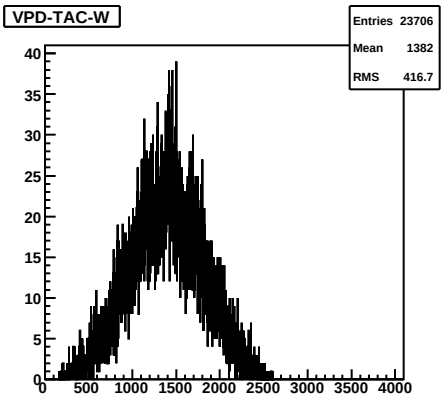

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 21848
Mean 4050
RMS 247.7

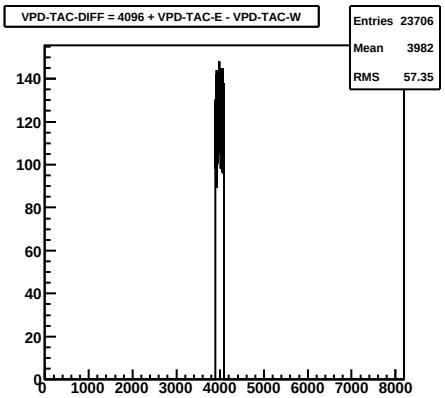

BBClarge-TAC-E
Entries 22433
Mean 1344
RMS 475.3

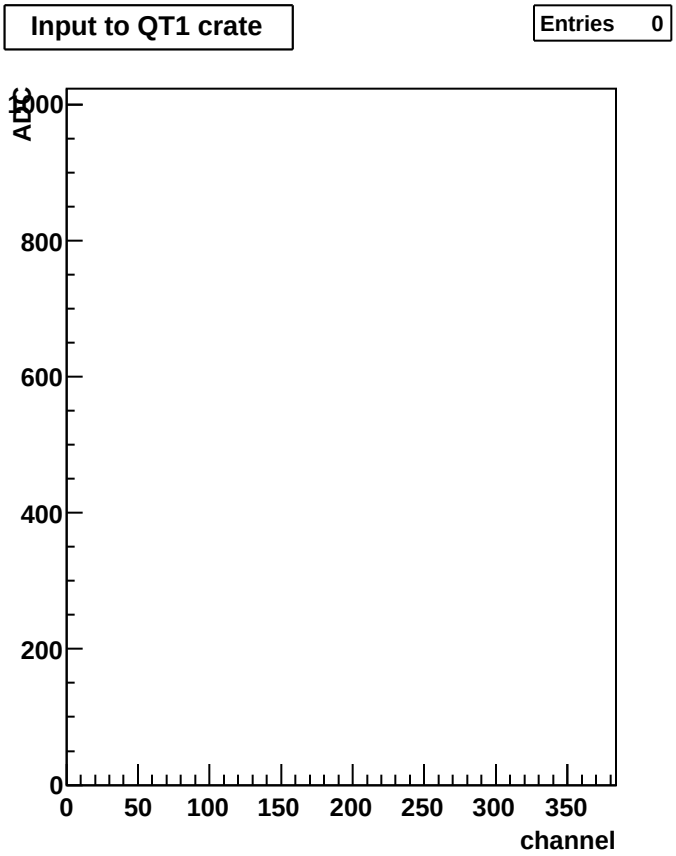

BBClarge-TAC-W
Entries 22339
Mean 1370
RMS 481.5

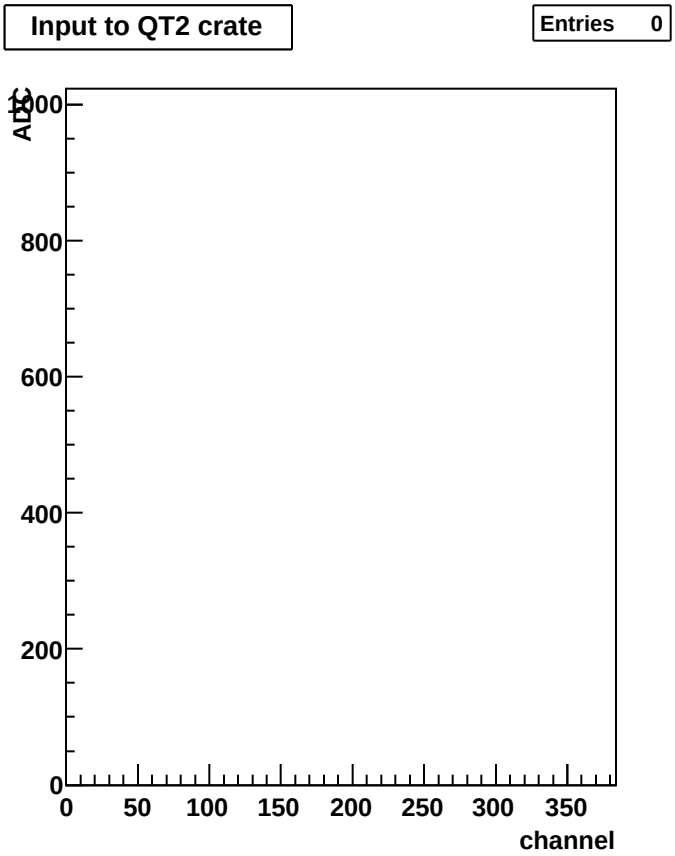

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 21215
Mean 4071
RMS 405.7

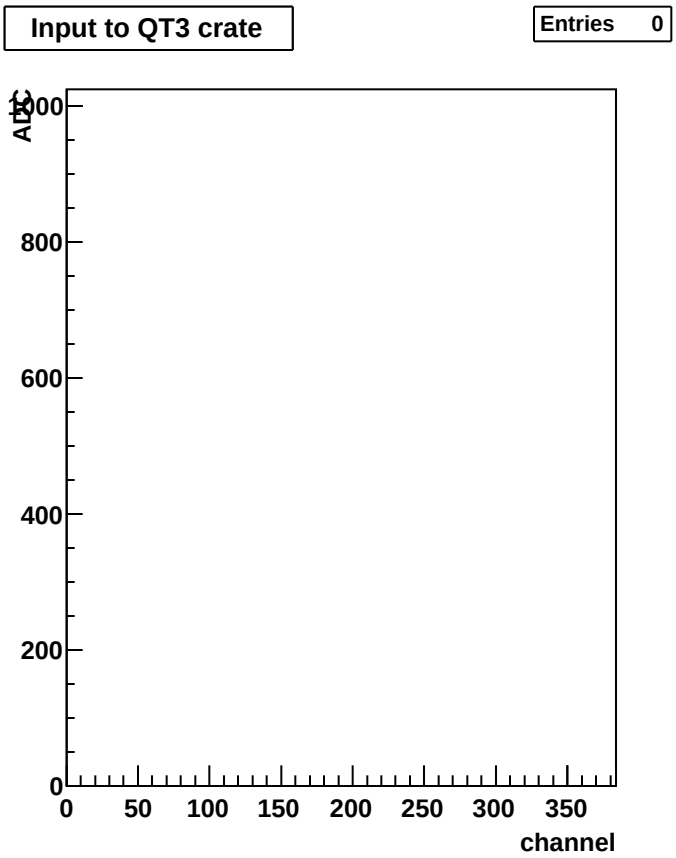

VPD-TAC-E
Entries 23706
Mean 1268
RMS 416.5

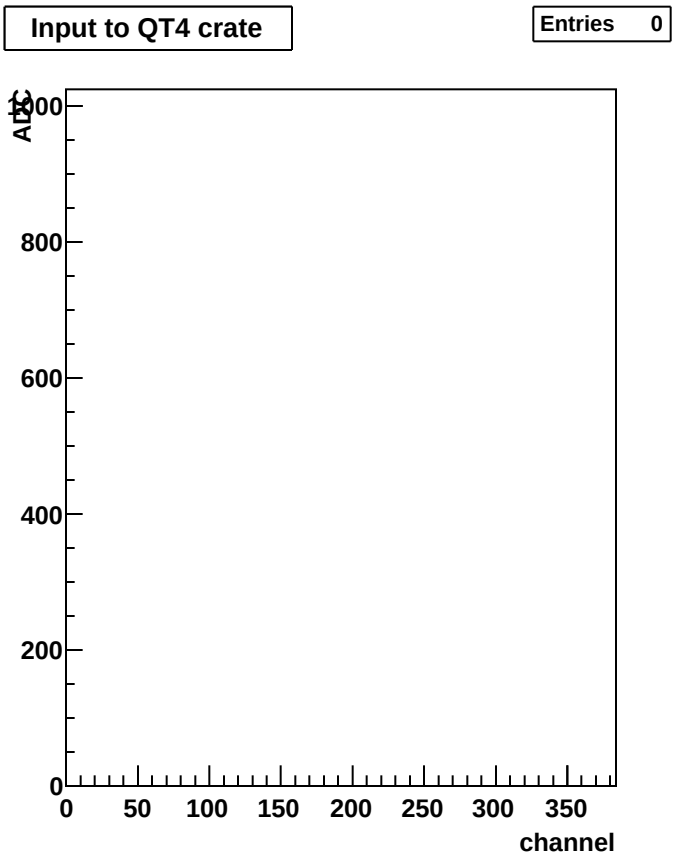

VPD-TAC-W
Entries 23706
Mean 1382
RMS 416.7

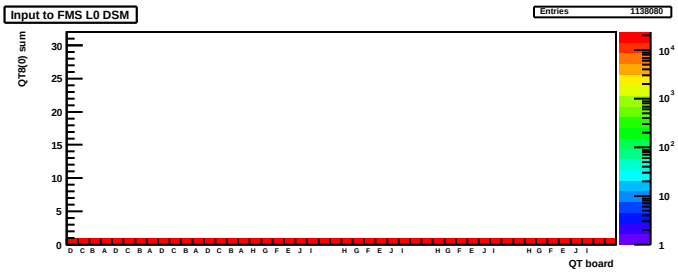

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 23706
Mean 3982
RMS 57.35

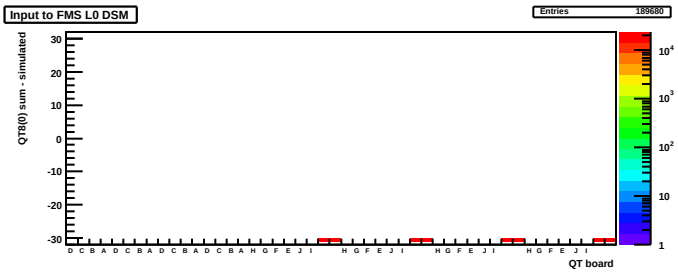

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

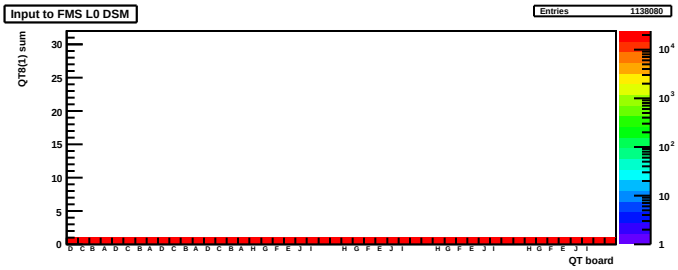

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

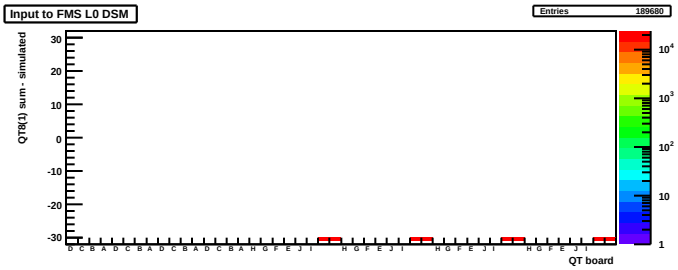

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

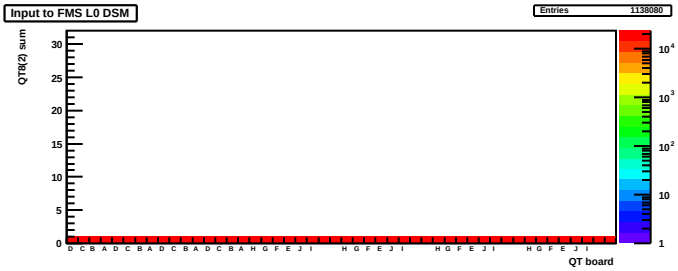

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

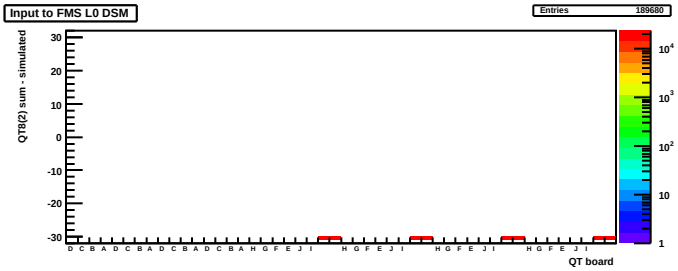

Input to FMS L0 DSM
Entries 1138080
QT8(0) sum
QT board

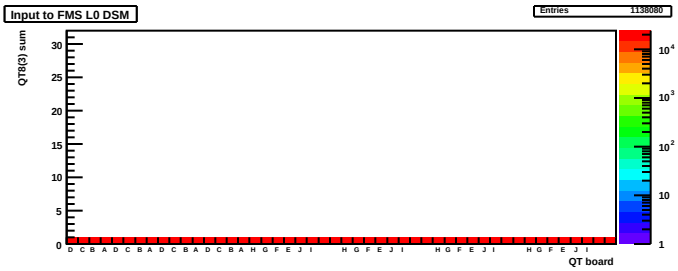

Input to FMS L0 DSM
Entries 189680
QT8(0) sum - simulated
QT board

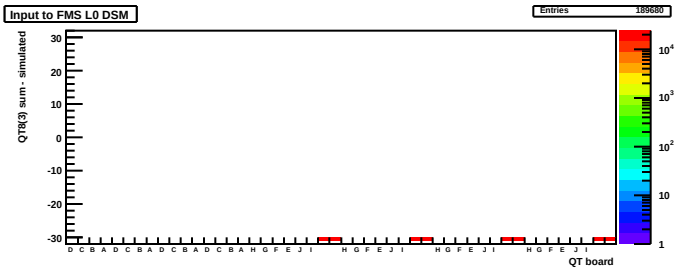

Input to FMS L0 DSM
Entries 1138080
QT8(1) sum
QT board

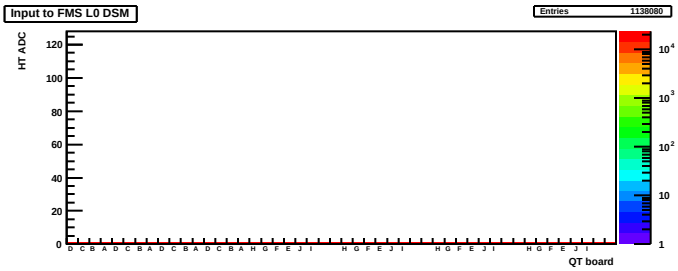

Input to FMS L0 DSM
Entries 189680
QT8(1) sum - simulated
QT board

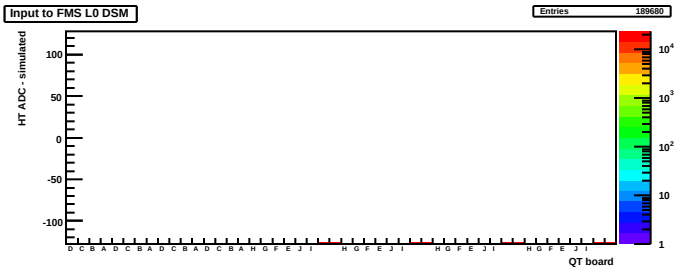

Input to FMS L0 DSM
Entries 1138080
QT8(2) sum
QT board

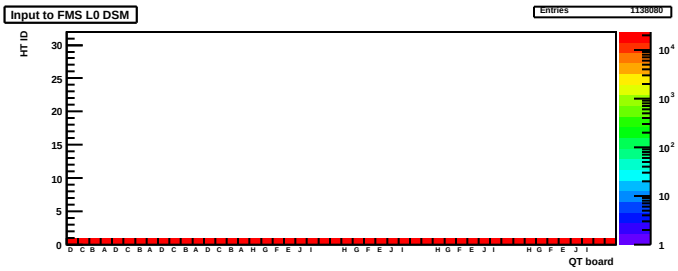

Input to FMS L0 DSM
Entries 189680
QT8(2) sum - simulated
QT board

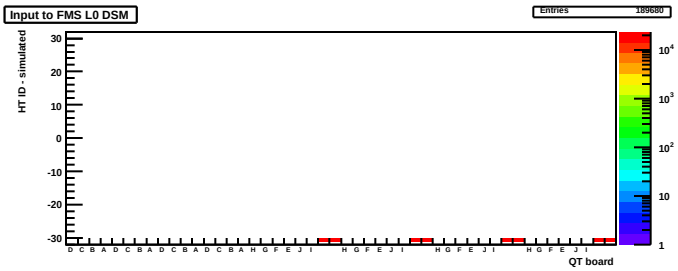

Input to FMS L0 DSM
Entries 1138080
QT8(3) sum
QT board

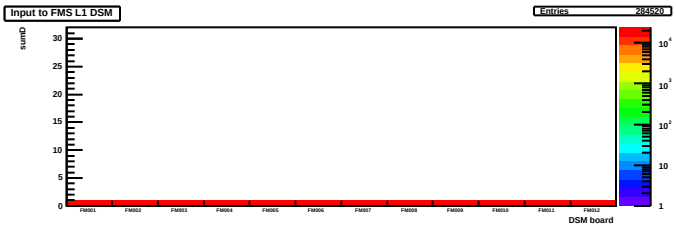

Input to FMS L0 DSM
Entries 189680
QT8(3) sum - simulated
QT board

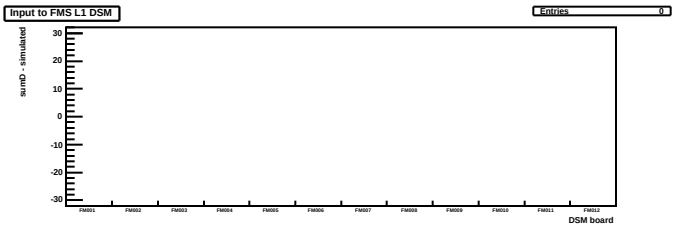

Input to FMS L0 DSM
Entries 1138080
HT ADC
QT board

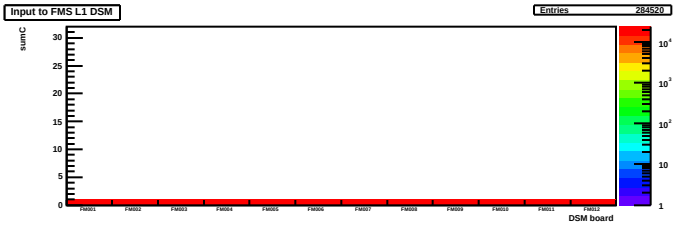

Input to FMS L0 DSM
Entries 189680
HT ADC - simulated
QT board

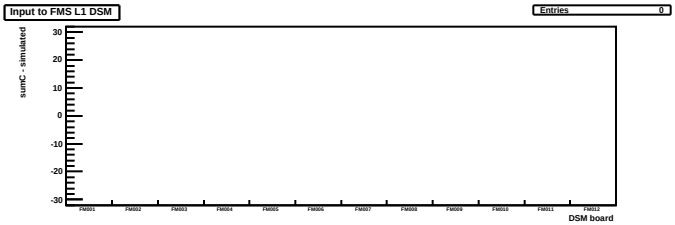

Input to FMS L0 DSM
Entries 1138080
HT ID
QT board

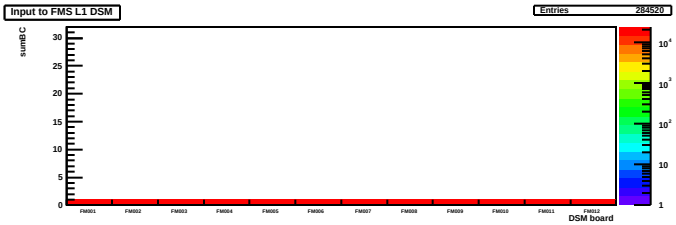

Input to FMS L0 DSM
Entries 189680
HT ID - simulated
QT board

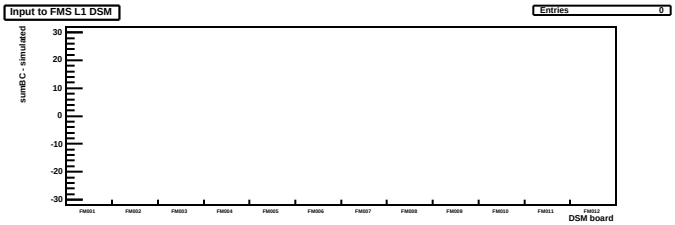

Input to FMS L1 DSM
Entries 284520
sumD
DSM board

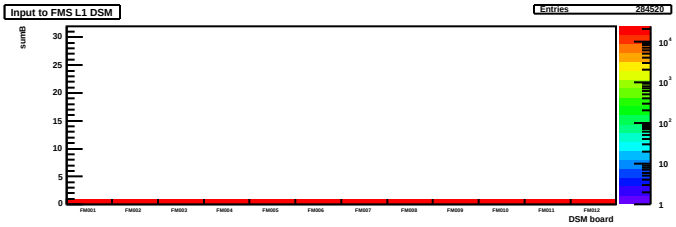

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

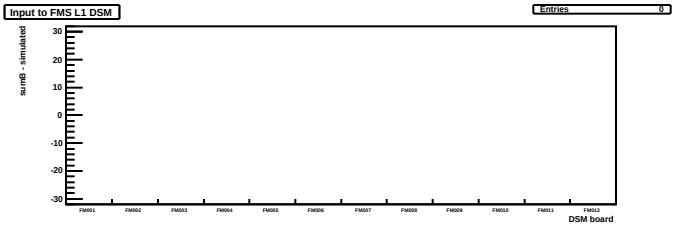

Input to FMS L1 DSM
Entries 284520
sumC
DSM board

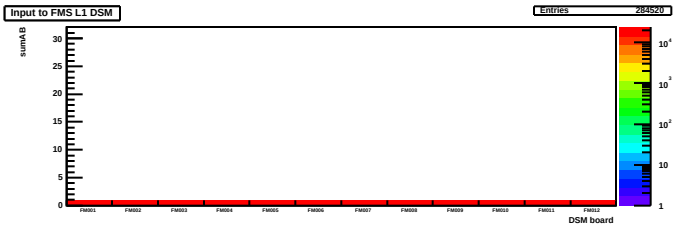

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

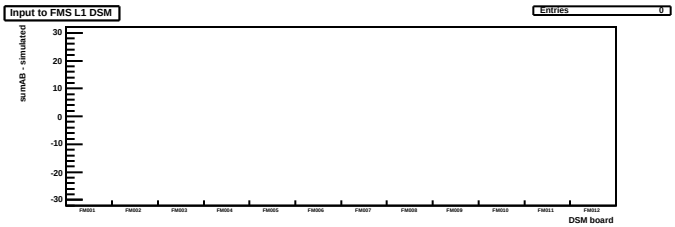

Input to FMS L1 DSM
Entries 284520
sumBC
DSM board

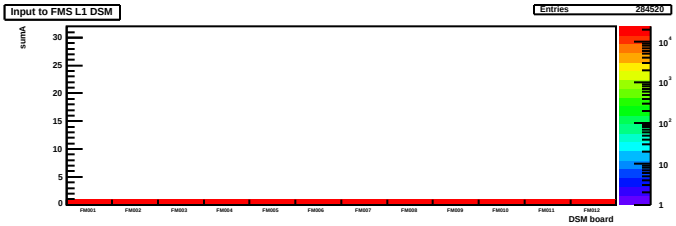

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

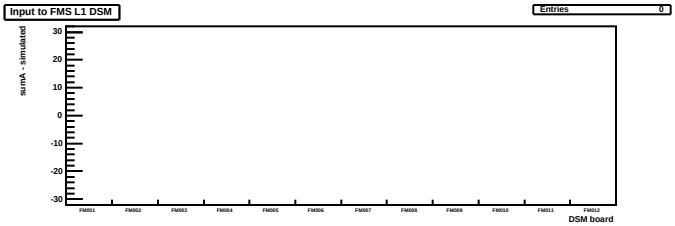

Input to FMS L1 DSM
Entries 284520
sumB
DSM board

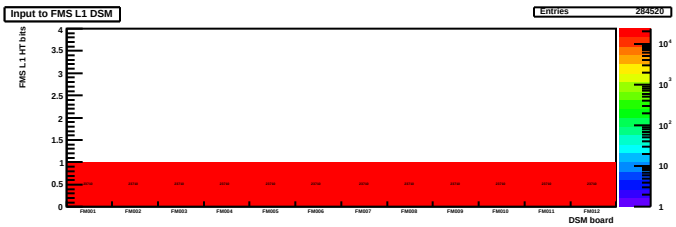

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

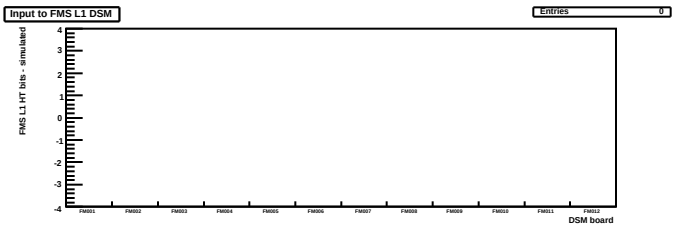

Input to FMS L1 DSM
Entries 284520
sumAB
DSM board

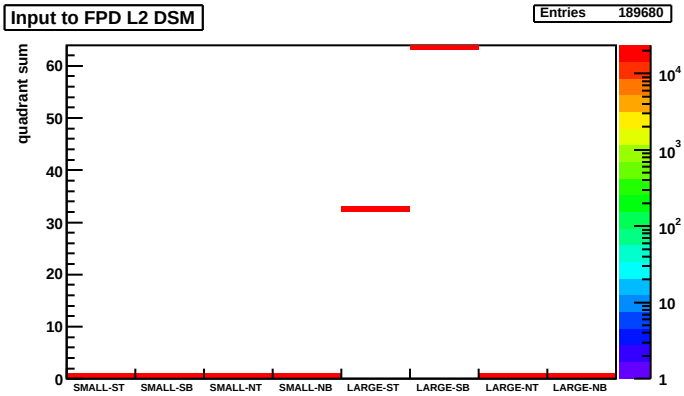

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

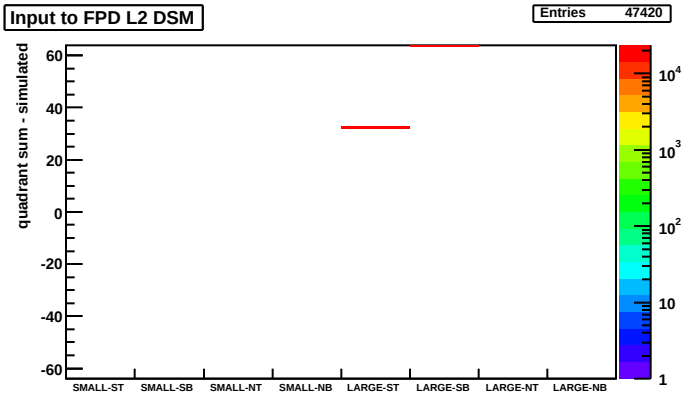

Input to FMS L1 DSM
Entries 284520
sumA
DSM board

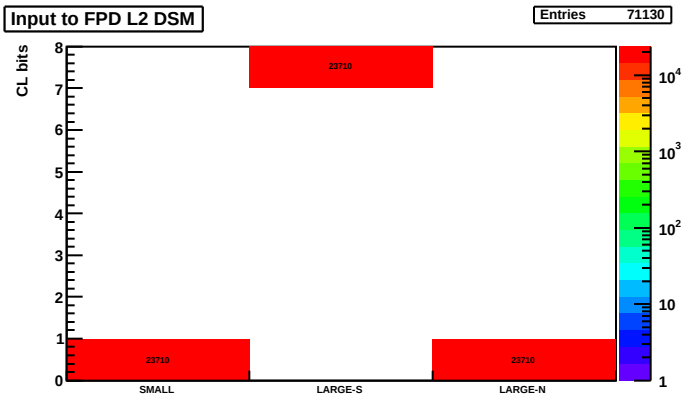

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

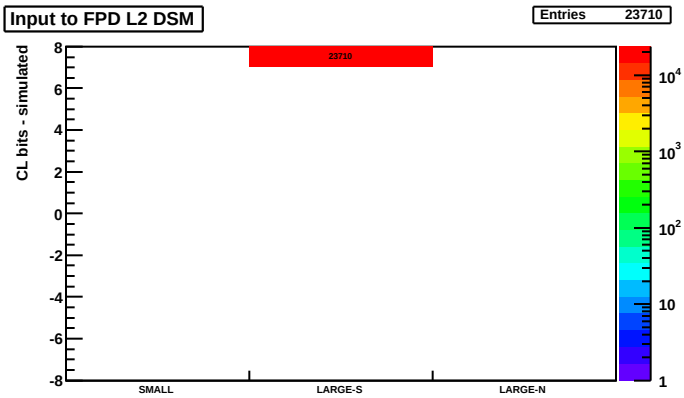

Input to FMS L1 DSM
Entries 284520
FMS L1 HT bits
DSM board

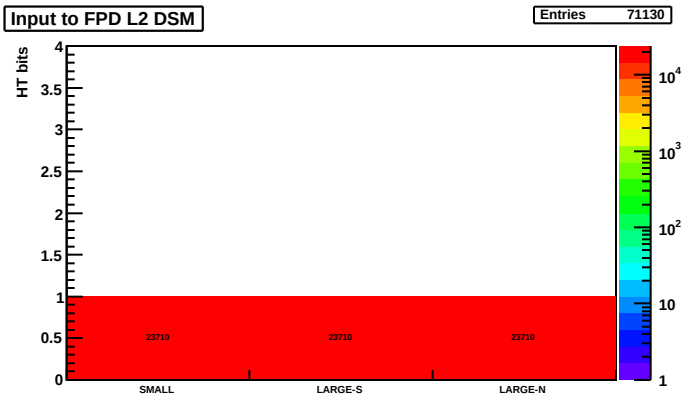

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

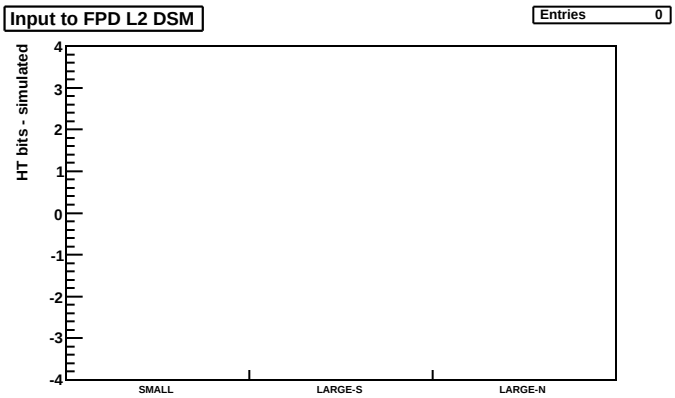

Input to FPD L2 DSM
Entries 189680
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

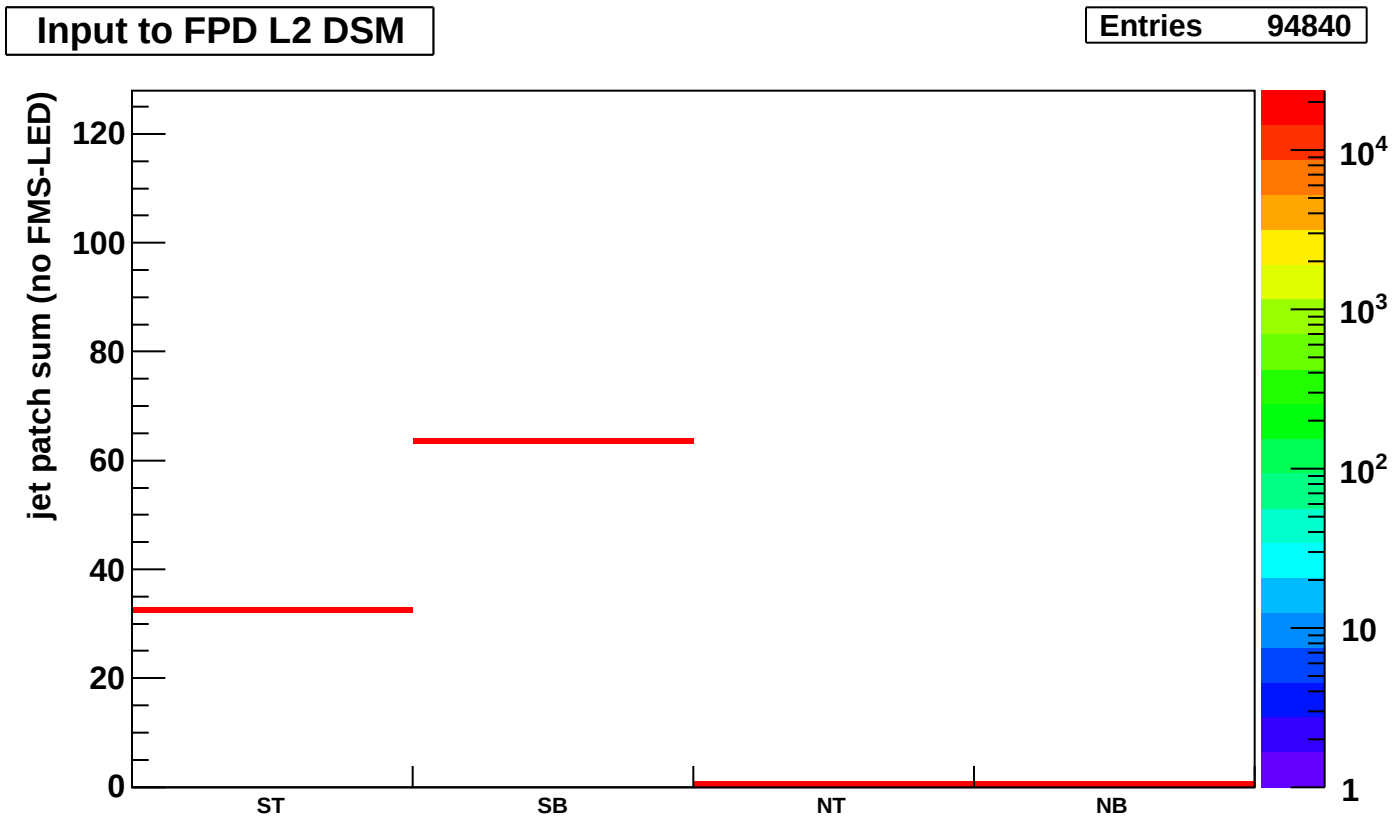

Input to FPD L2 DSM
Entries 47420
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

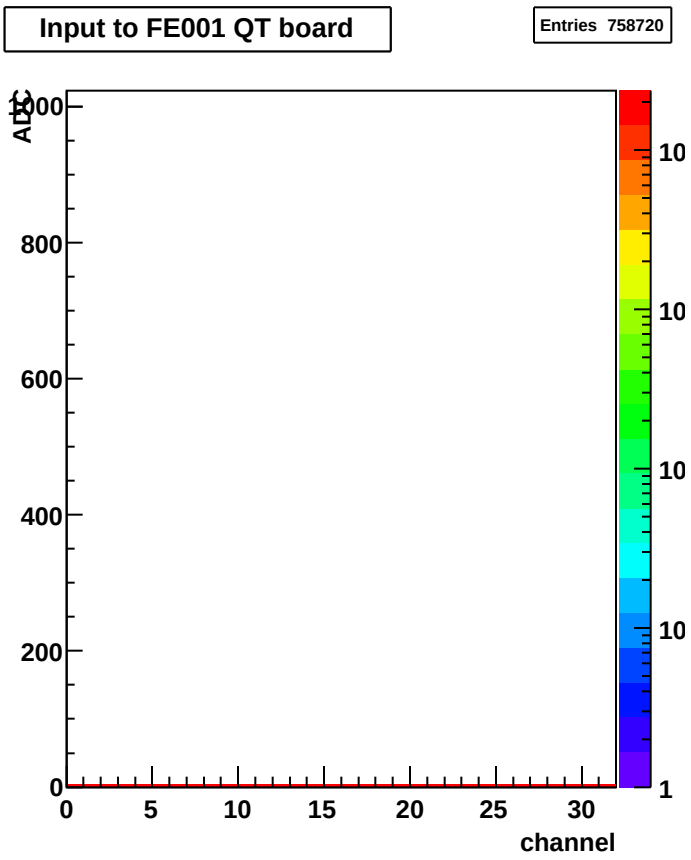

Input to FPD L2 DSM
Entries 71130
CL bits
23710
23710
23710
SMALL
LARGE-S
LARGE-N

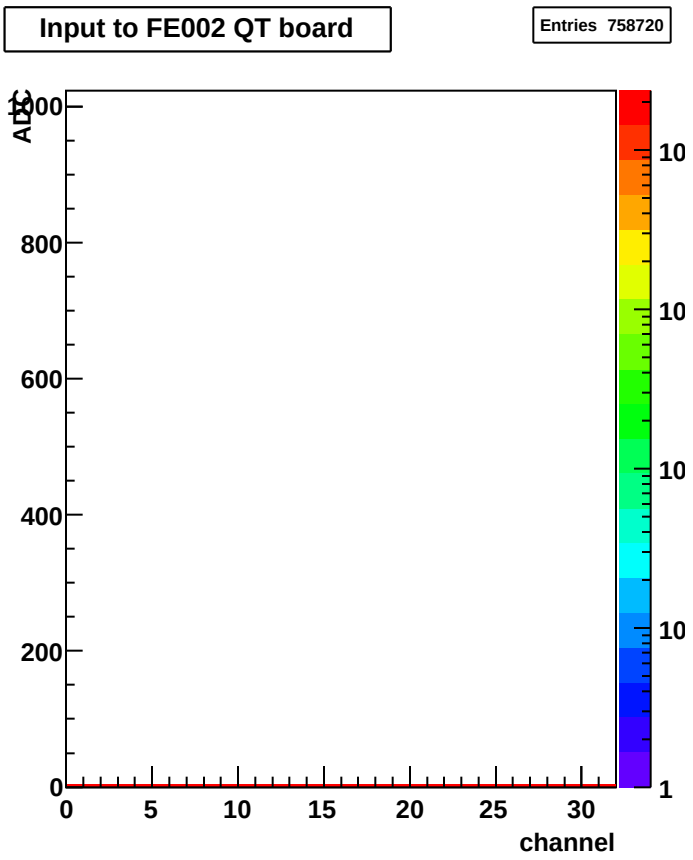

Input to FPD L2 DSM
Entries 23710
CL bits - simulated
23710
SMALL
LARGE-S
LARGE-N

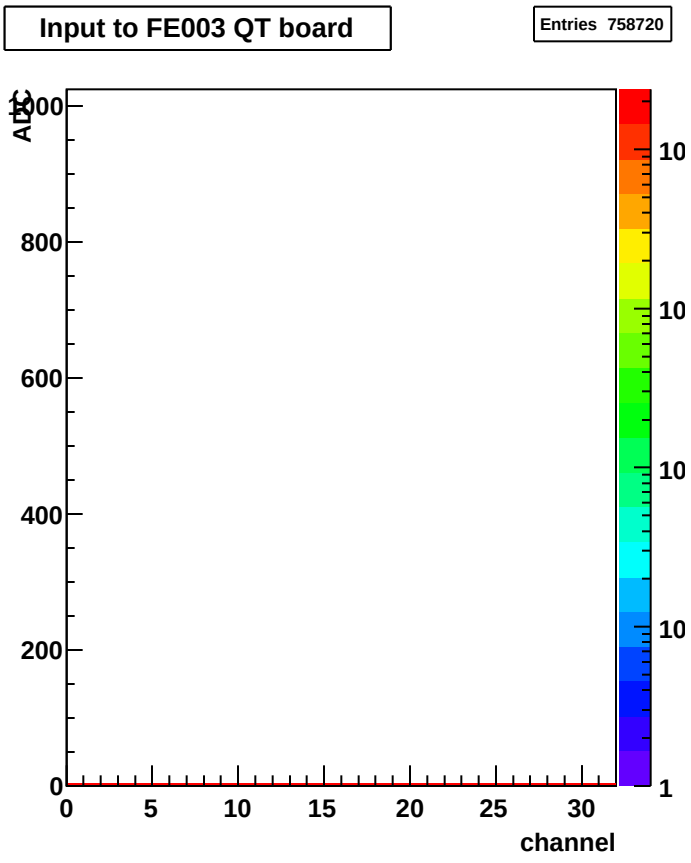

Input to FPD L2 DSM
Entries 71130
HT bits
23710
23710
23710
SMALL
LARGE-S
LARGE-N

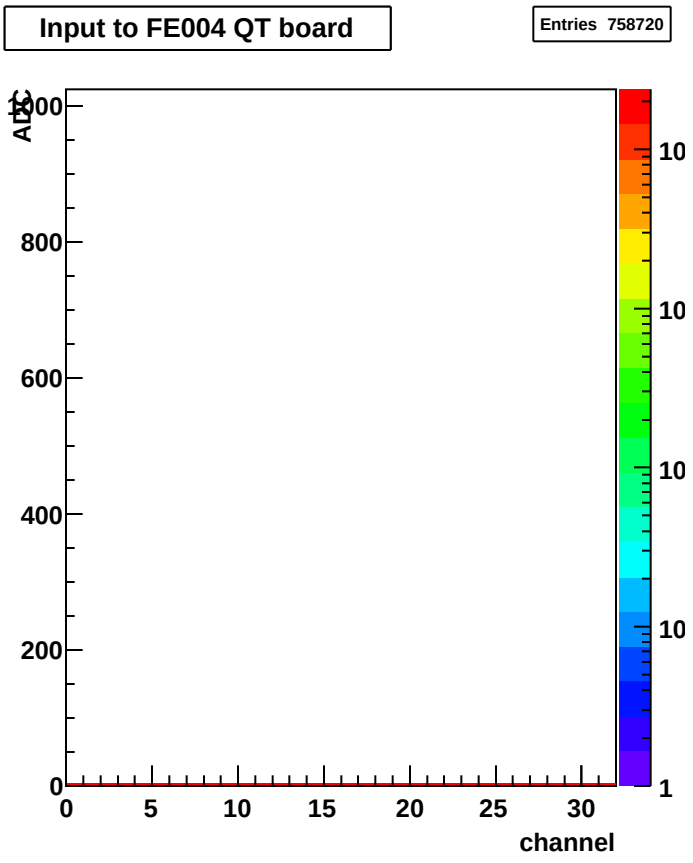

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

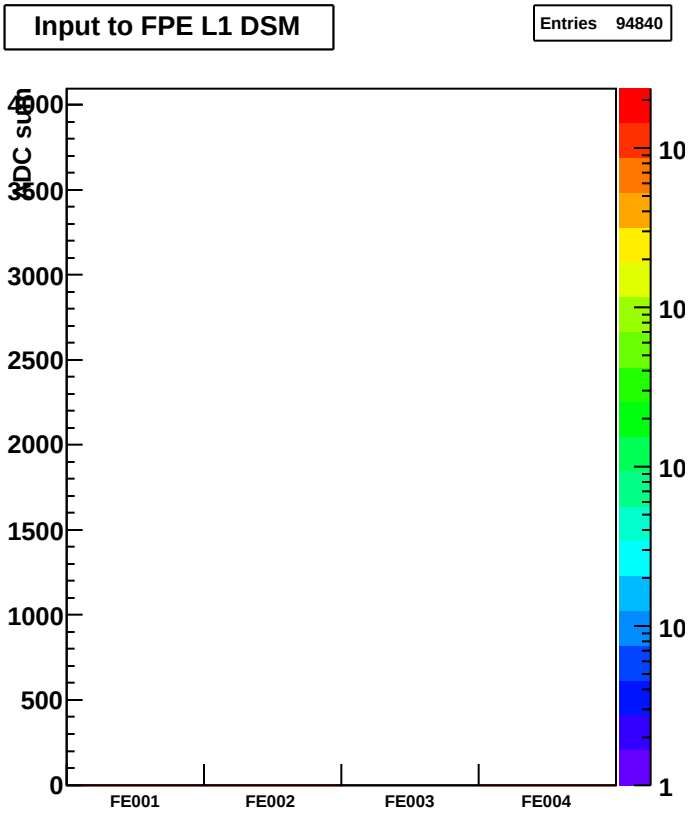

Input to FPD L2 DSM
Entries 94840
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

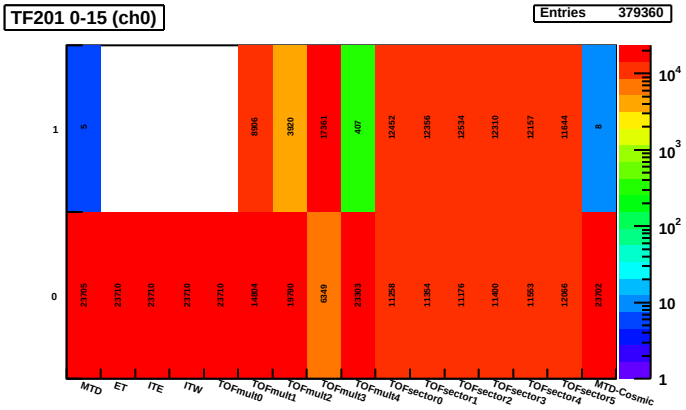

Input to FE001 QT board
Entries 758720
ADC
channel

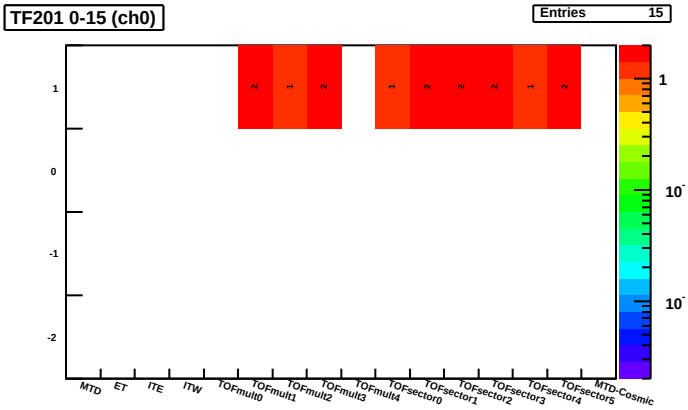

Input to FE002 QT board
Entries 758720
ADC
channel

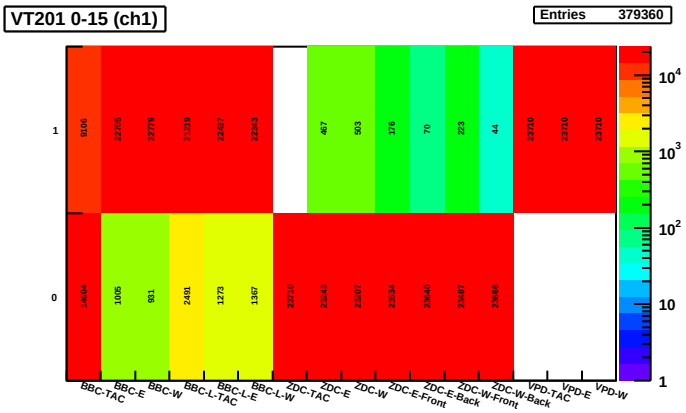

Input to FE003 QT board
Entries 758720
ADC
channel

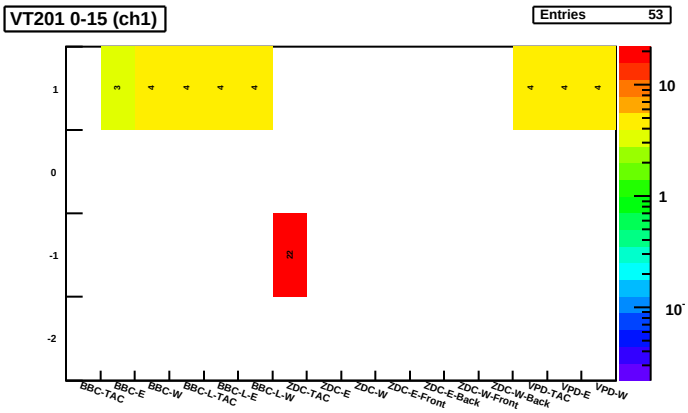

Input to FE004 QT board
Entries 758720
ADC
channel

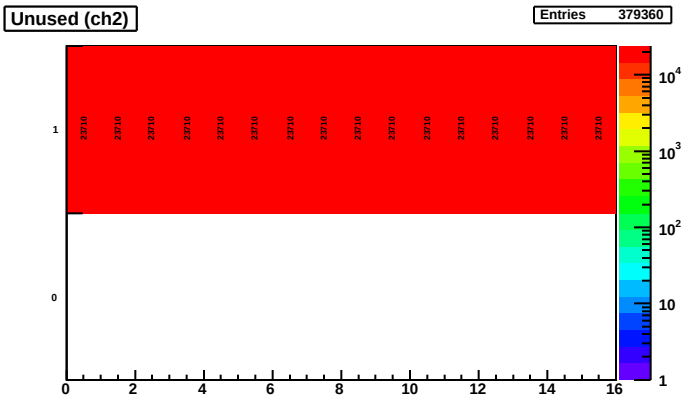

Input to FPE L1 DSM
Entries 94840
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

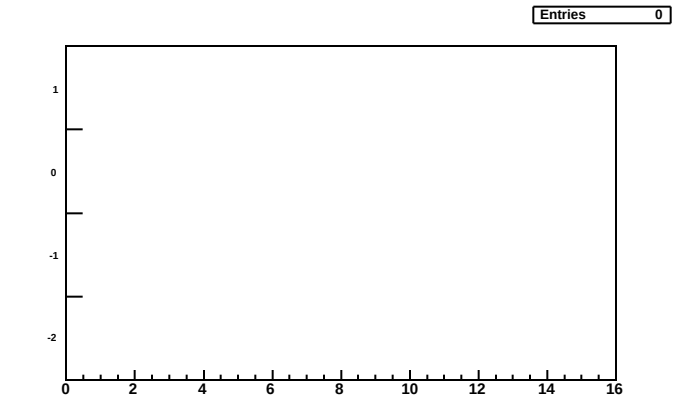

TF201 0-15 (ch0)
Entries 379360
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

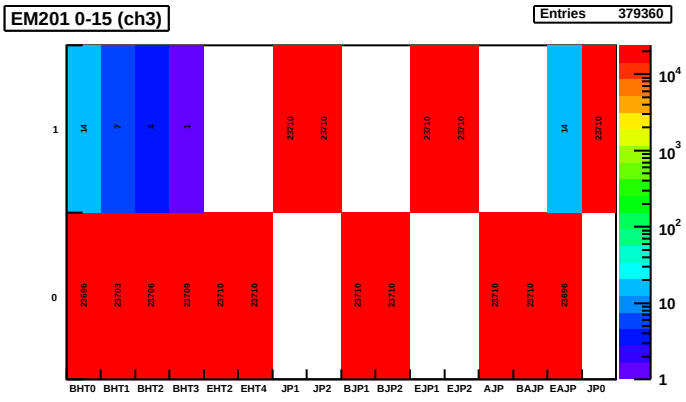

TF201 0-15 (ch0)
Entries 15
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

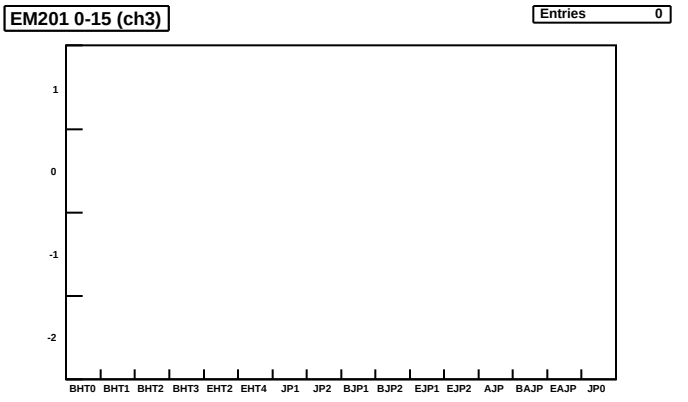

VT201 0-15 (ch1)
Entries 379360
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 53
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

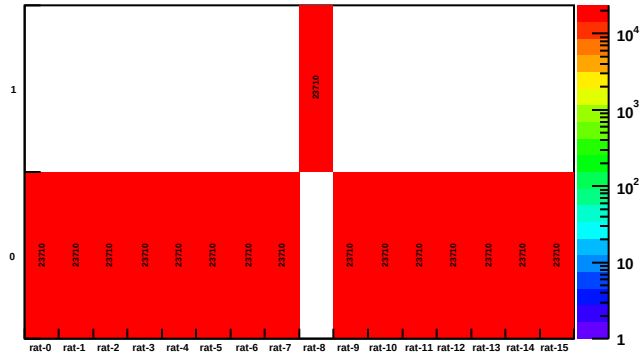

Unused (ch2)
Entries 379360

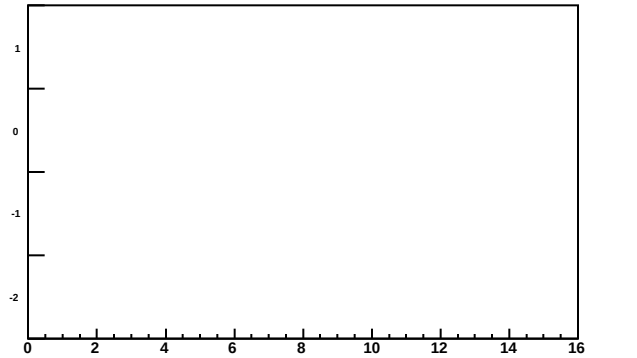

Entries 0


EM201 0-15 (ch3)
Entries 379360
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

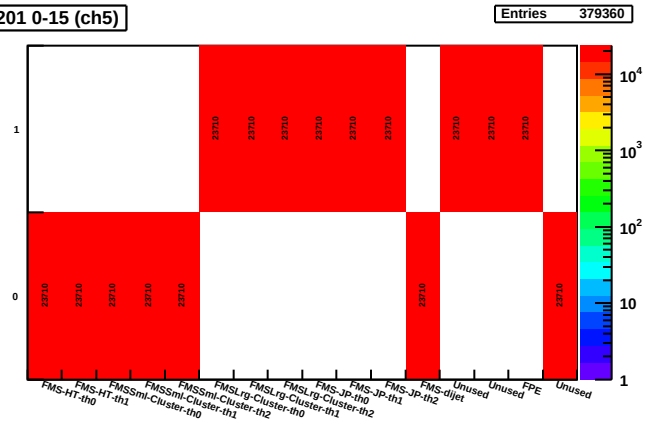

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

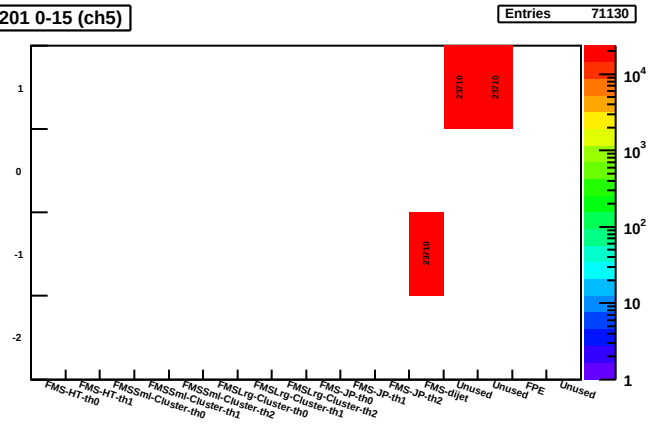




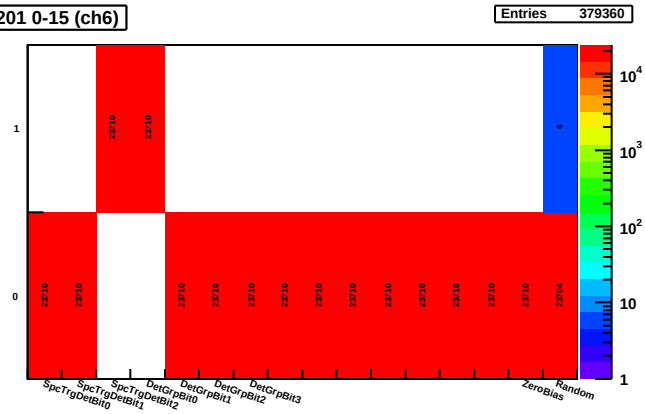
FP201 0-15 (ch5)

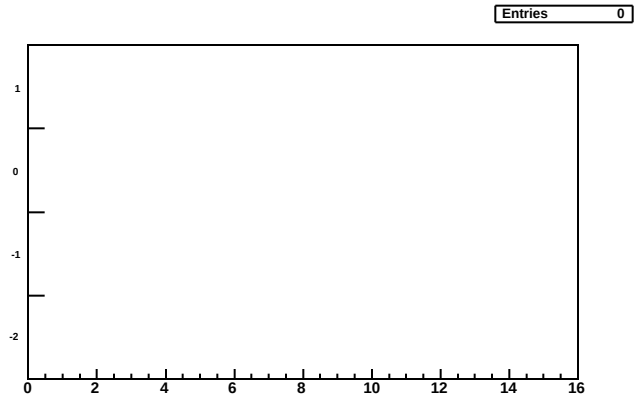
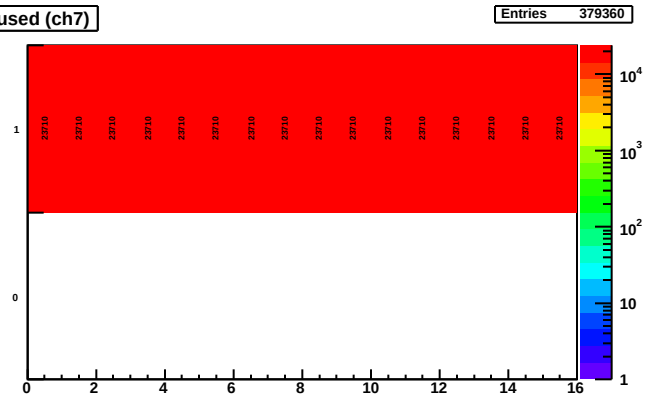
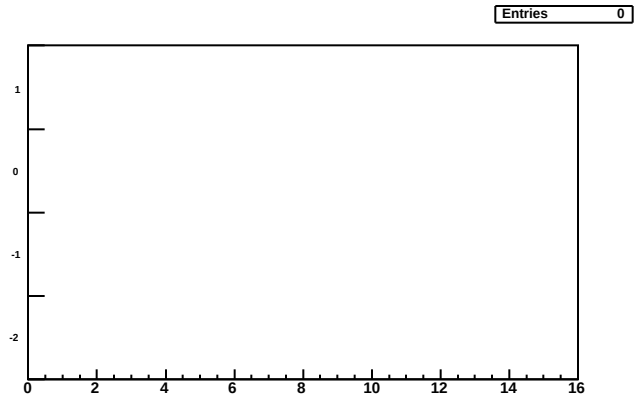


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)