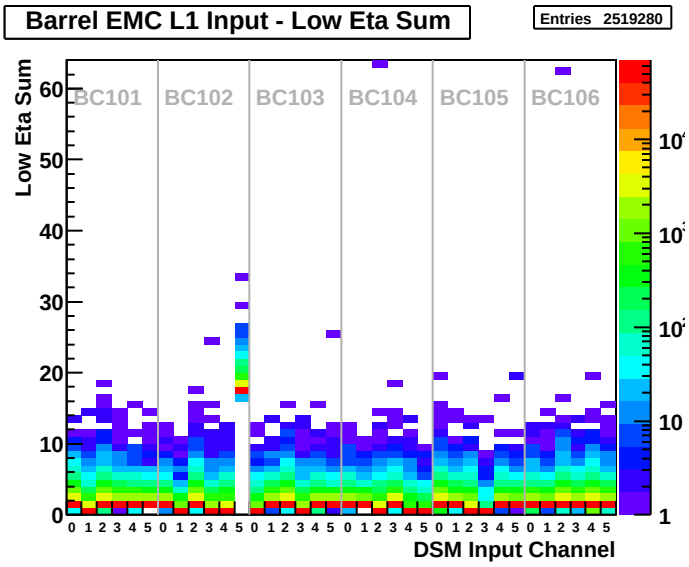
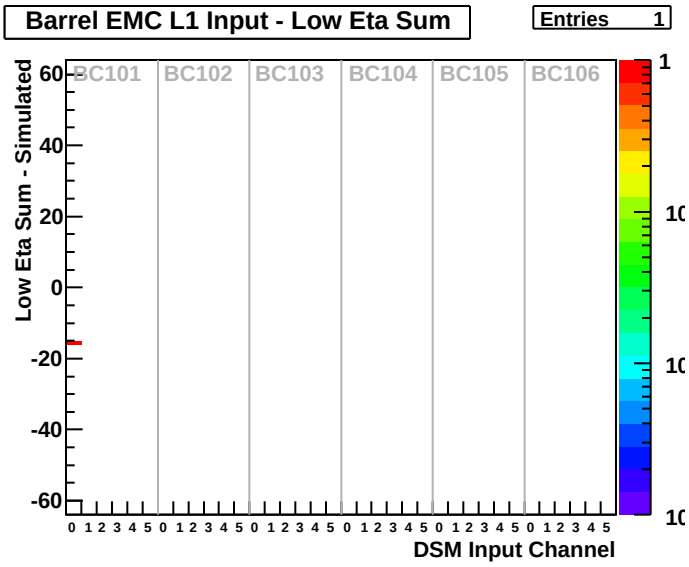
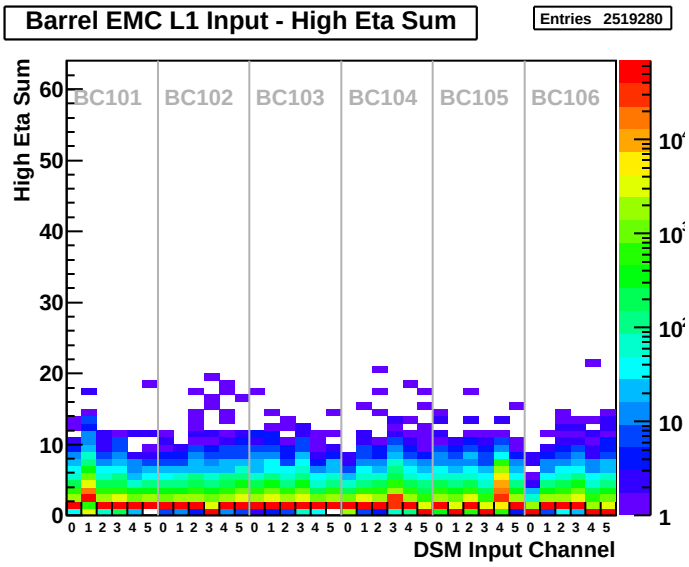
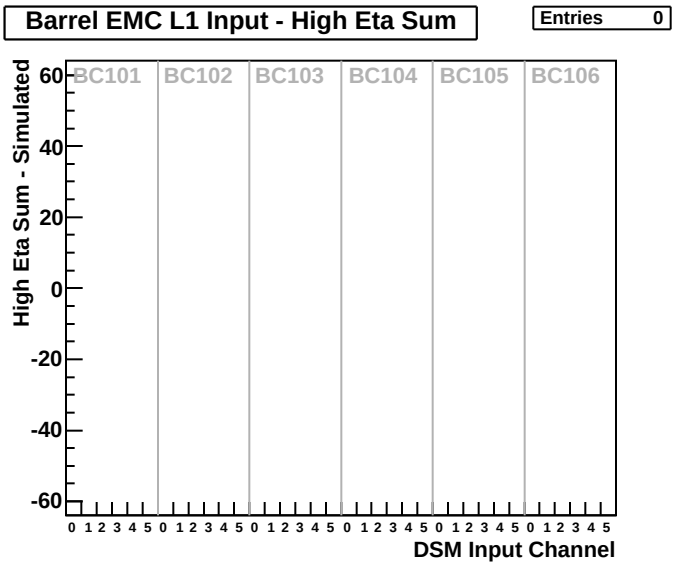
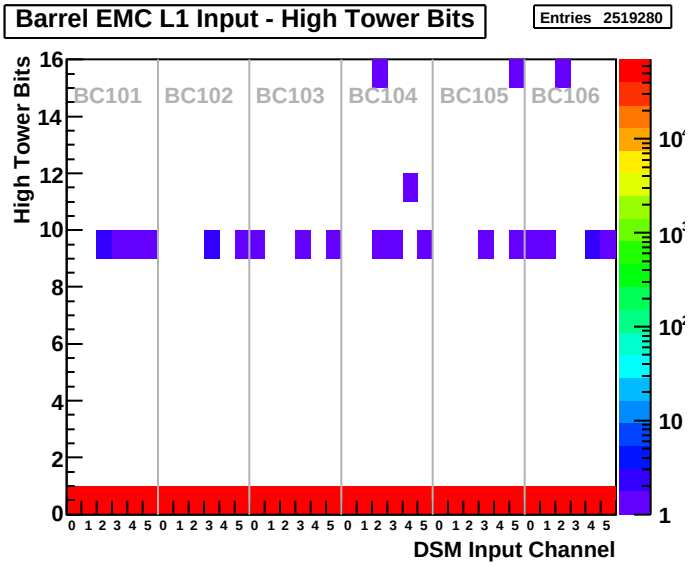
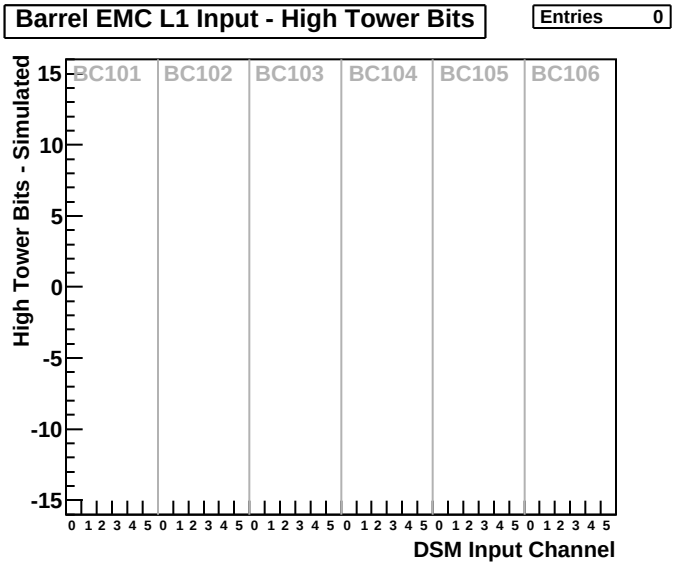

Barrel EMC L1 Input - Low Eta Sum
Entries 2519280
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

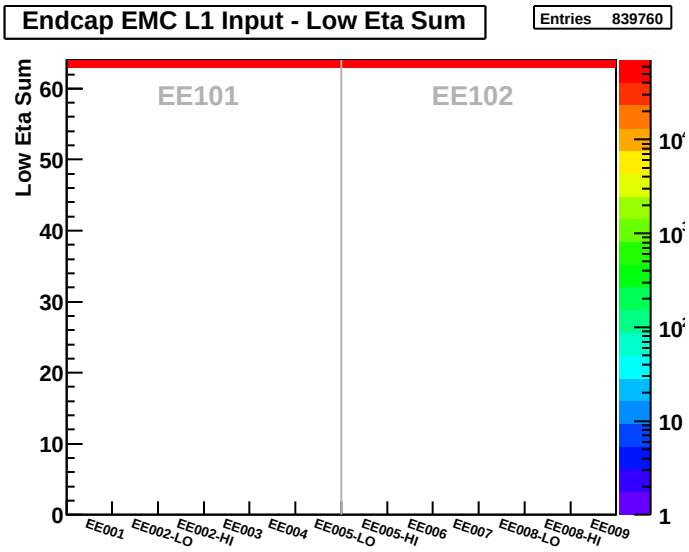

Barrel EMC L1 Input - Low Eta Sum
Entries 1
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

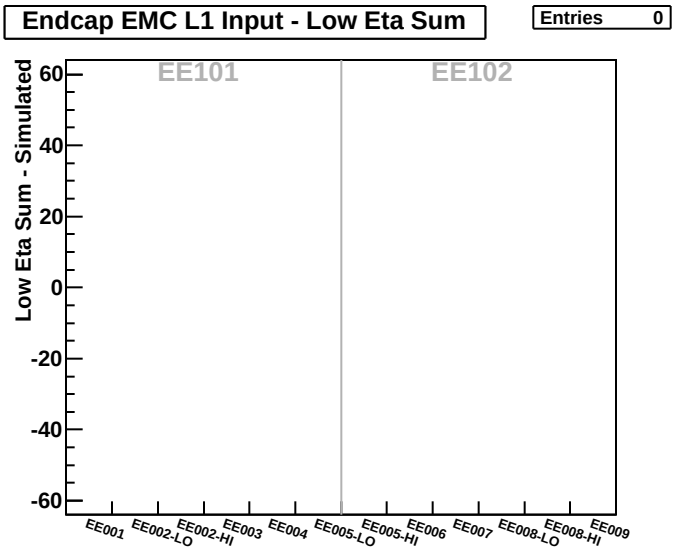

Barrel EMC L1 Input - High Eta Sum
Entries 2519280
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

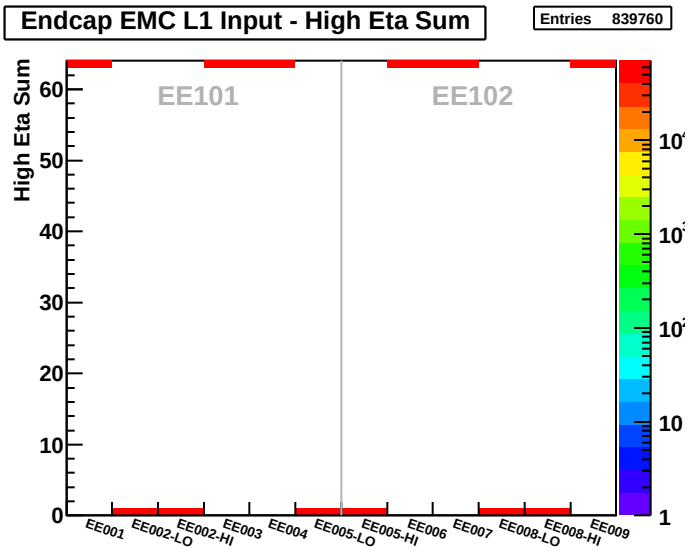

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

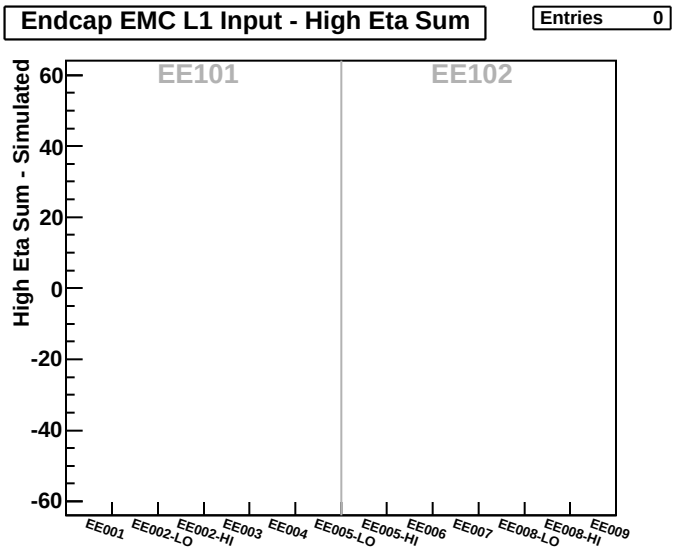

Barrel EMC L1 Input - High Tower Bits
Entries 2519280
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

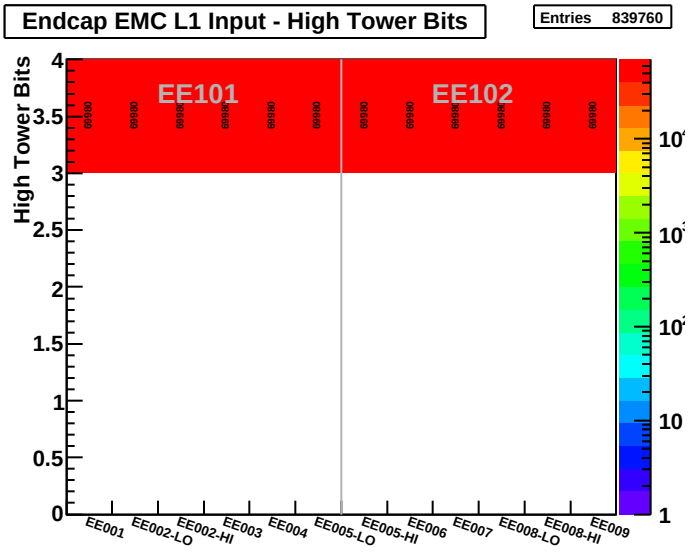

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

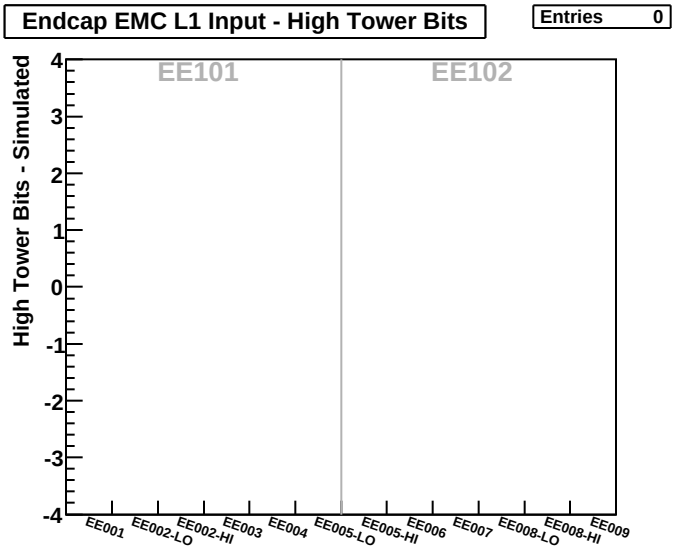

Endcap EMC L1 Input - Low Eta Sum
Entries 839760
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

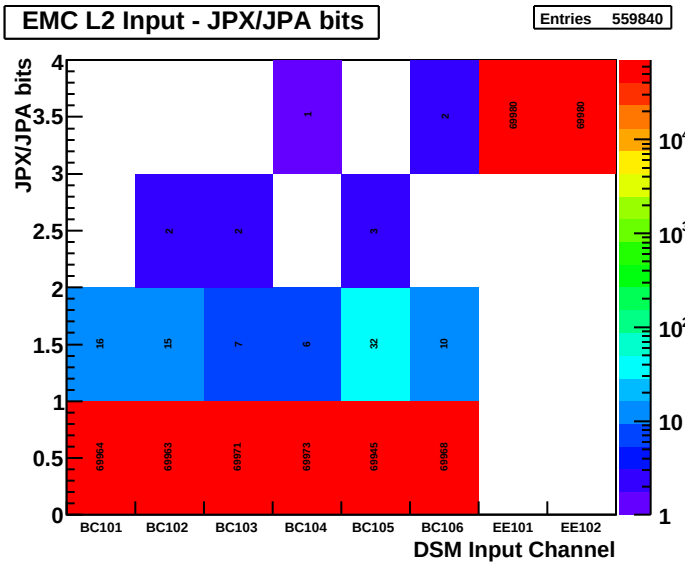

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

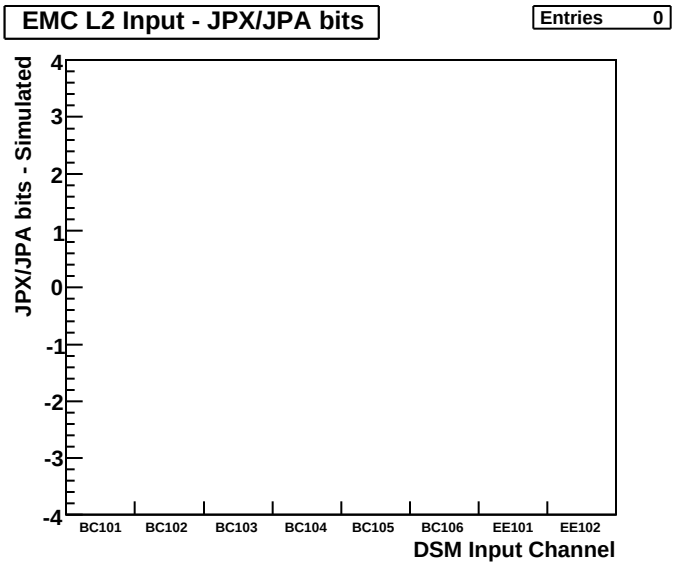

Endcap EMC L1 Input - High Eta Sum
Entries 839760
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

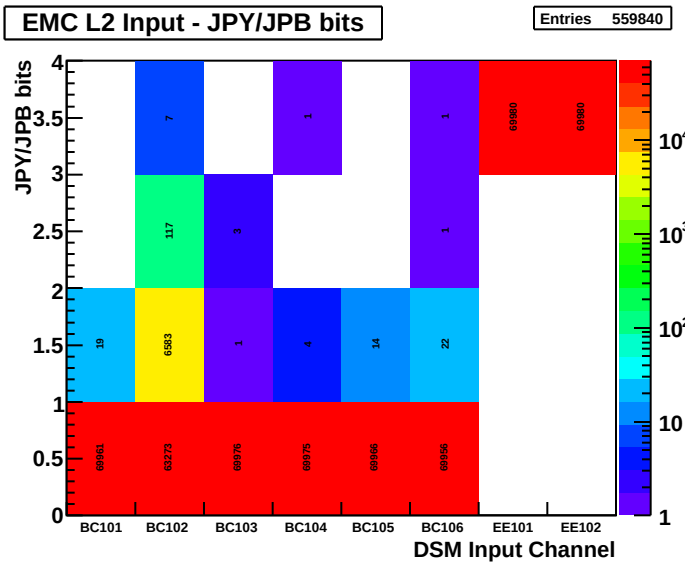

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

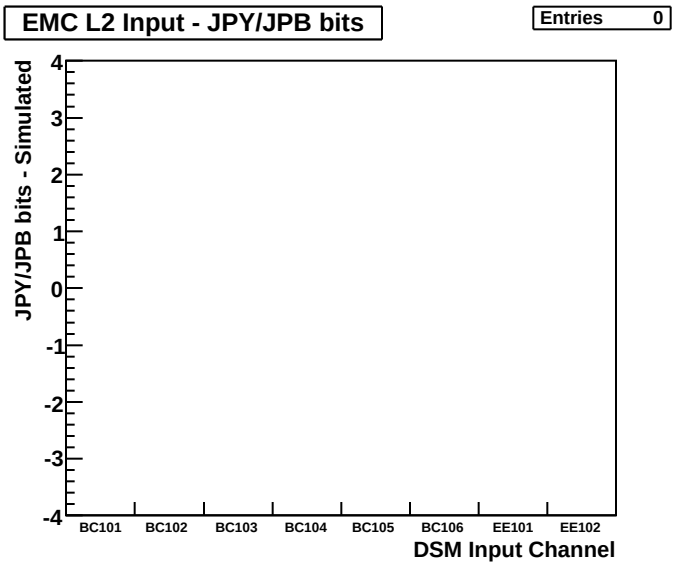

Endcap EMC L1 Input - High Tower Bits
Entries 839760
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

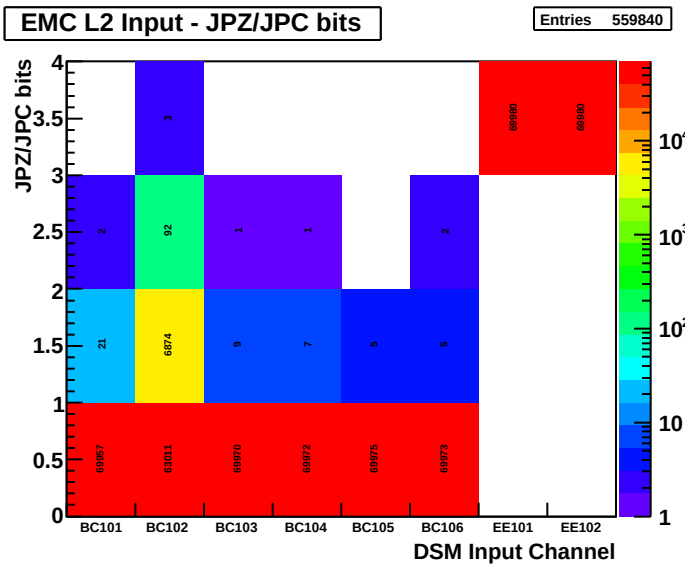

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

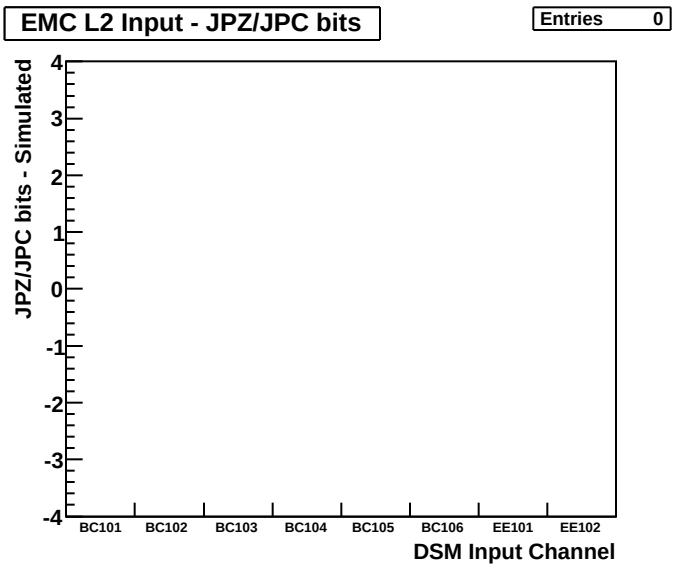

EMC L2 Input - JPX/JPA bits
Entries 559840
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

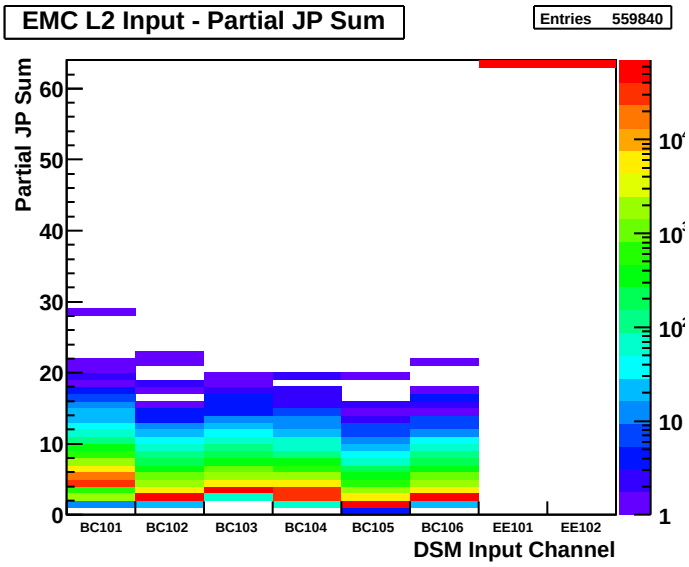

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

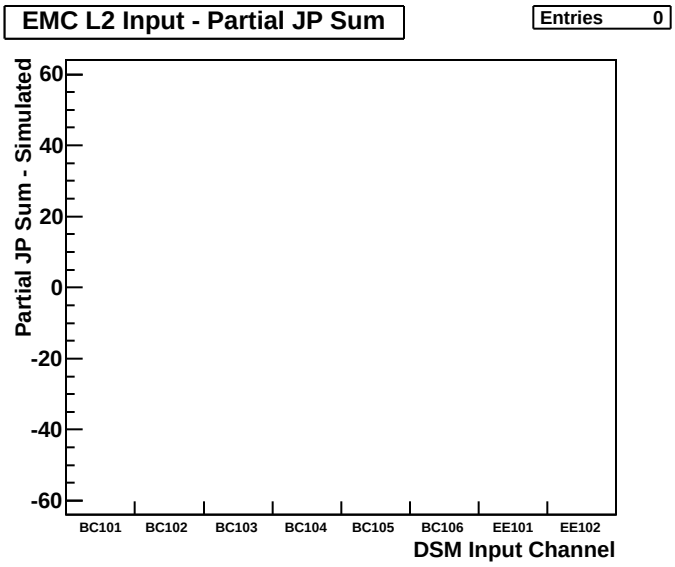

EMC L2 Input - JPY/JPB bits
Entries 559840
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

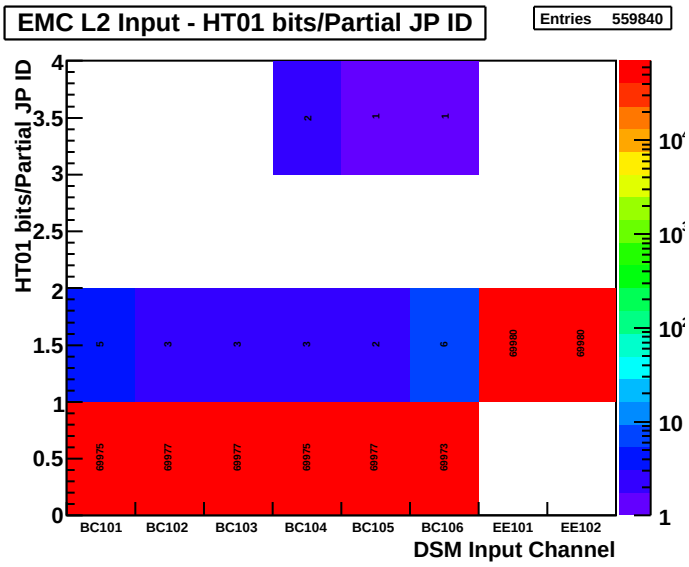

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

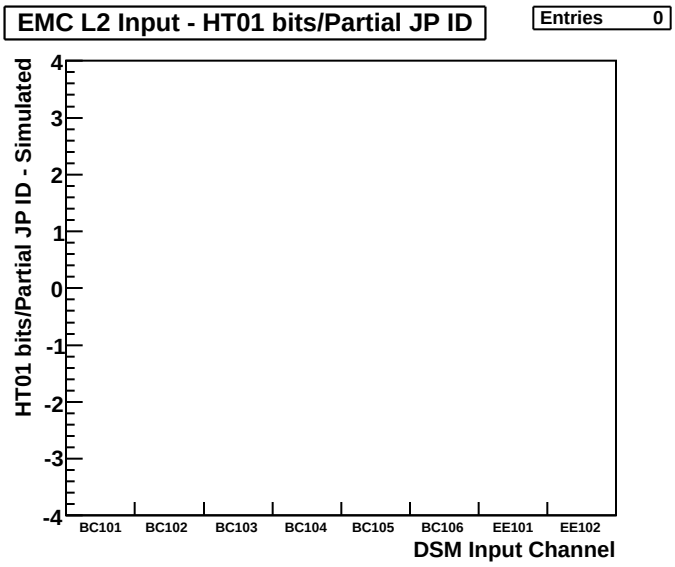

EMC L2 Input - JPZ/JPC bits
Entries 559840
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

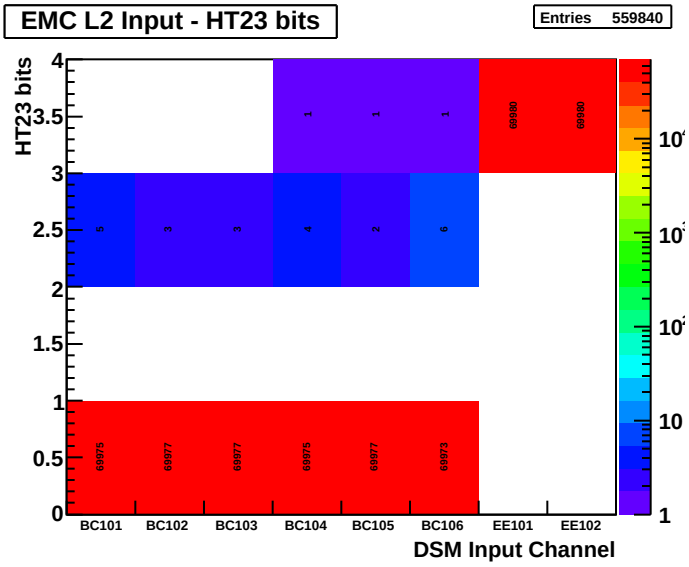

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

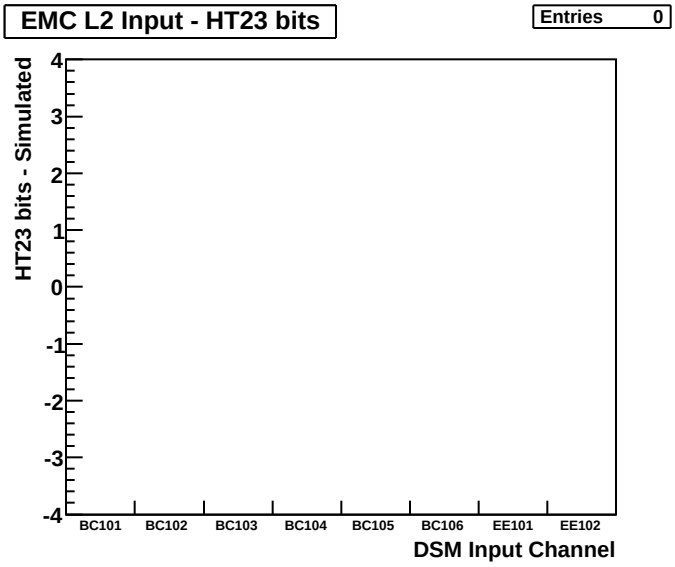

EMC L2 Input - Partial JP Sum
Entries 559840
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

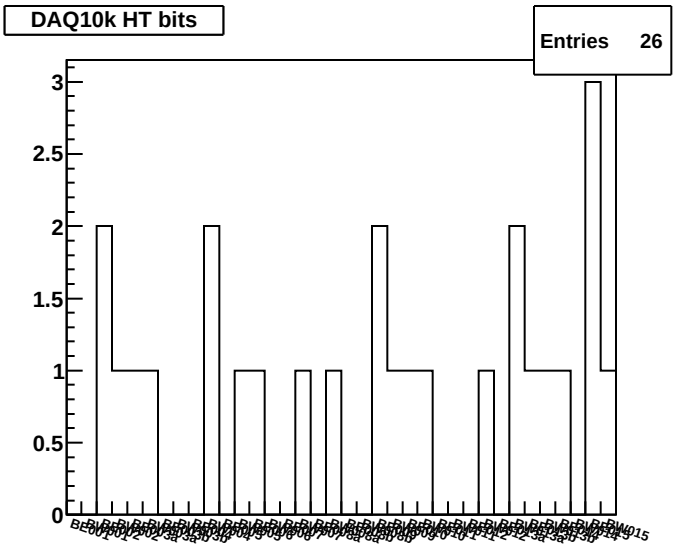

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

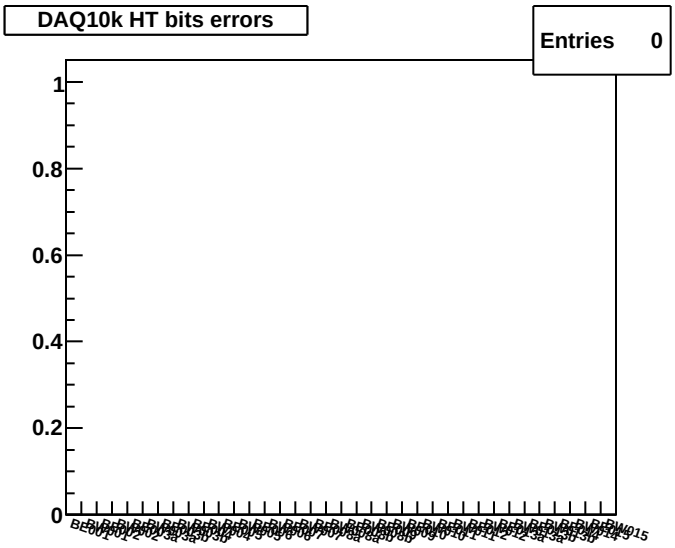

EMC L2 Input - HT01 bits/Partial JP ID
Entries 559840
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

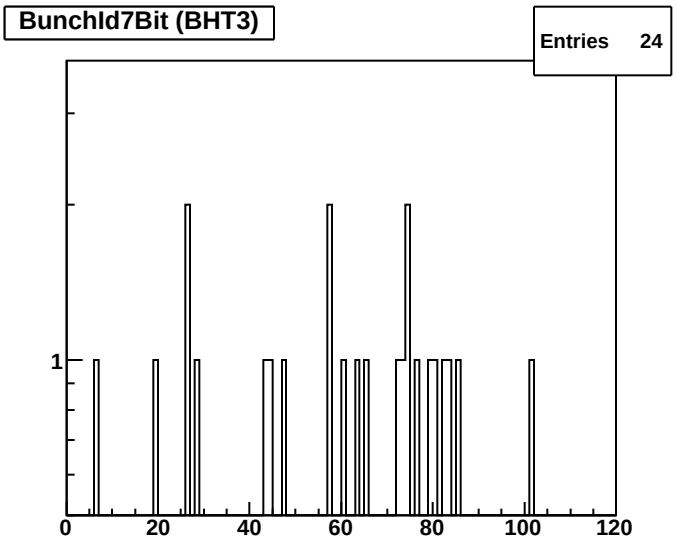

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

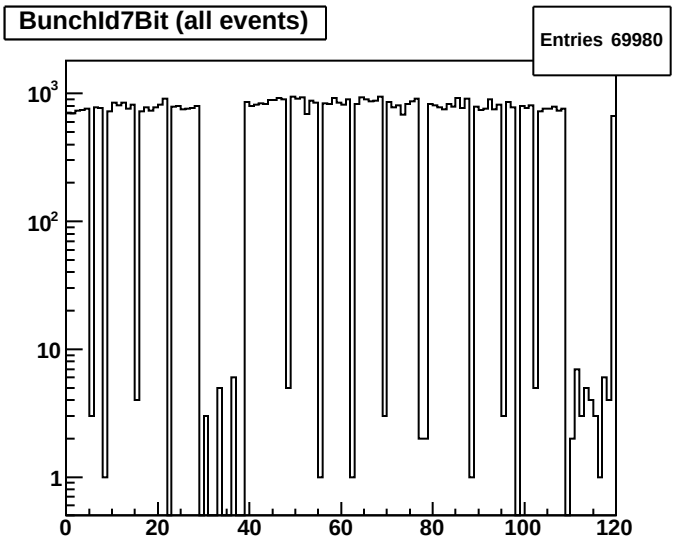

EMC L2 Input - HT23 bits
Entries 559840
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

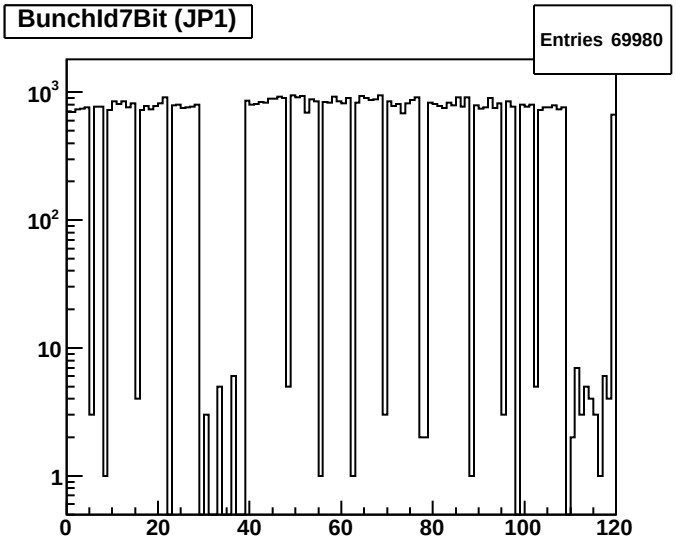

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

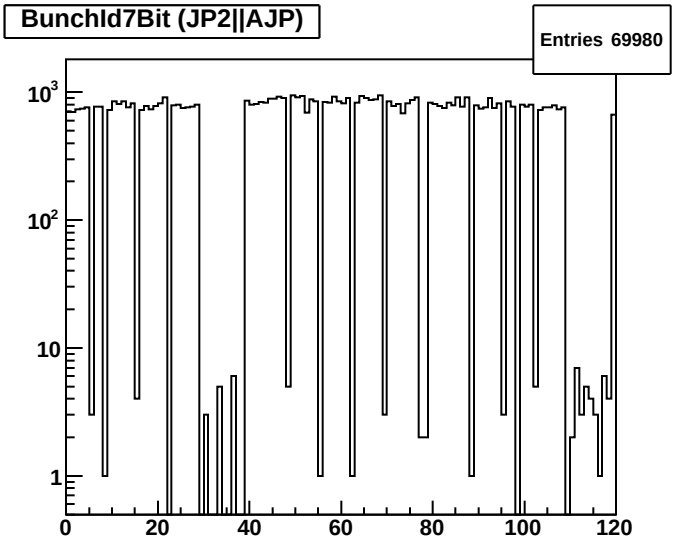

DAQ10k HT bits
Entries 26

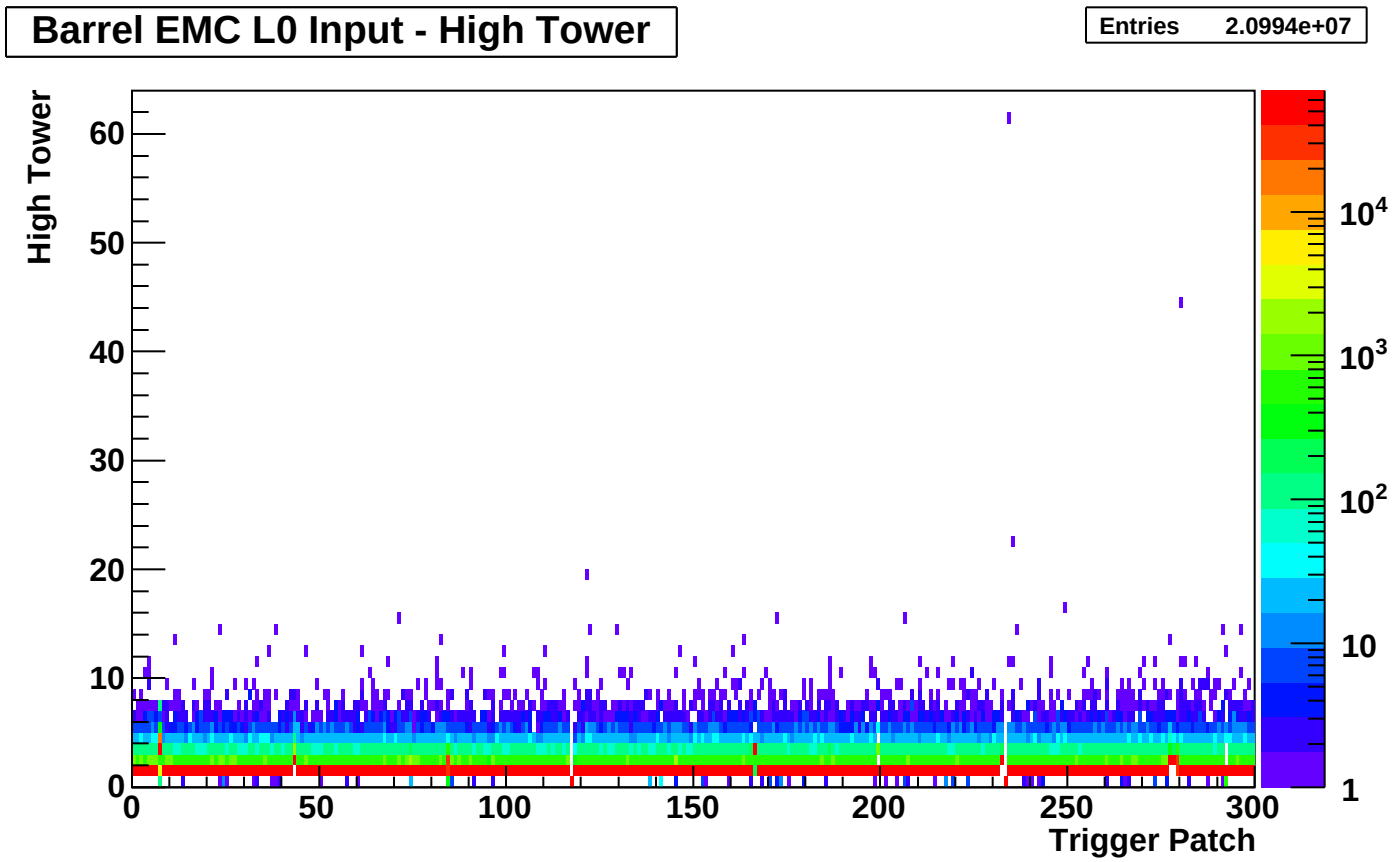

DAQ10k HT bits errors
Entries 0

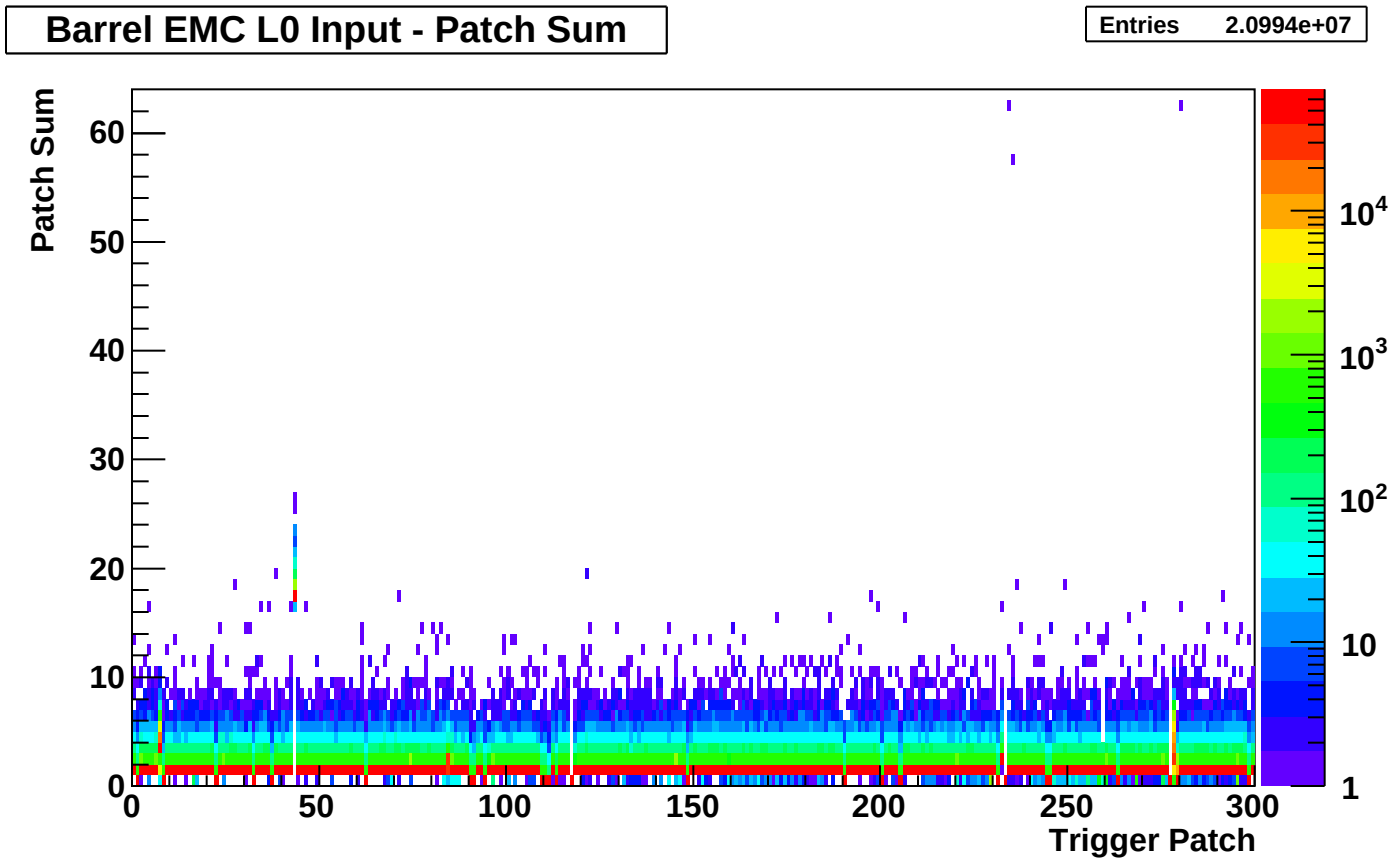

BunchId7Bit (BHT3)
Entries 24

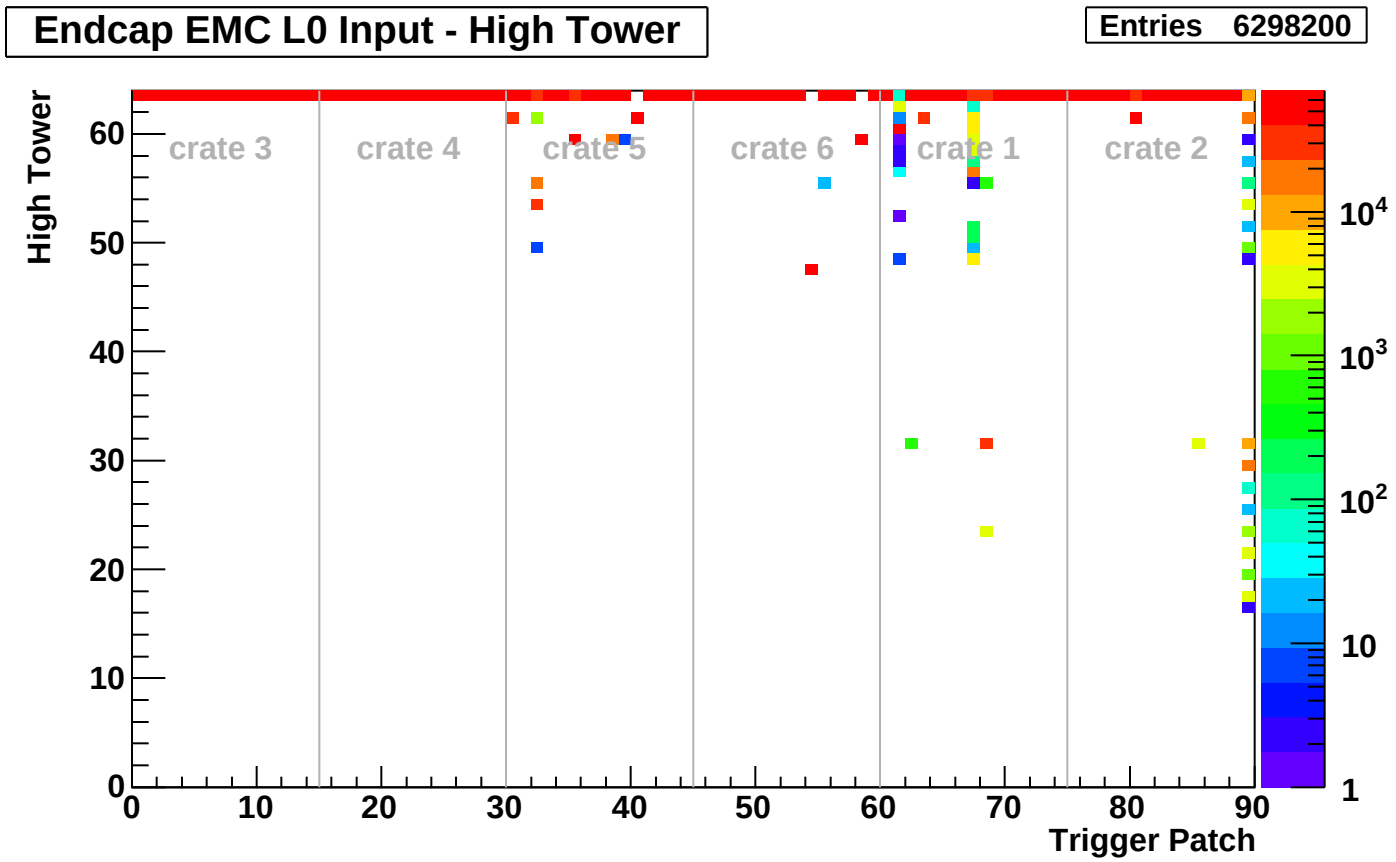

BunchId7Bit (all events)
Entries 69980

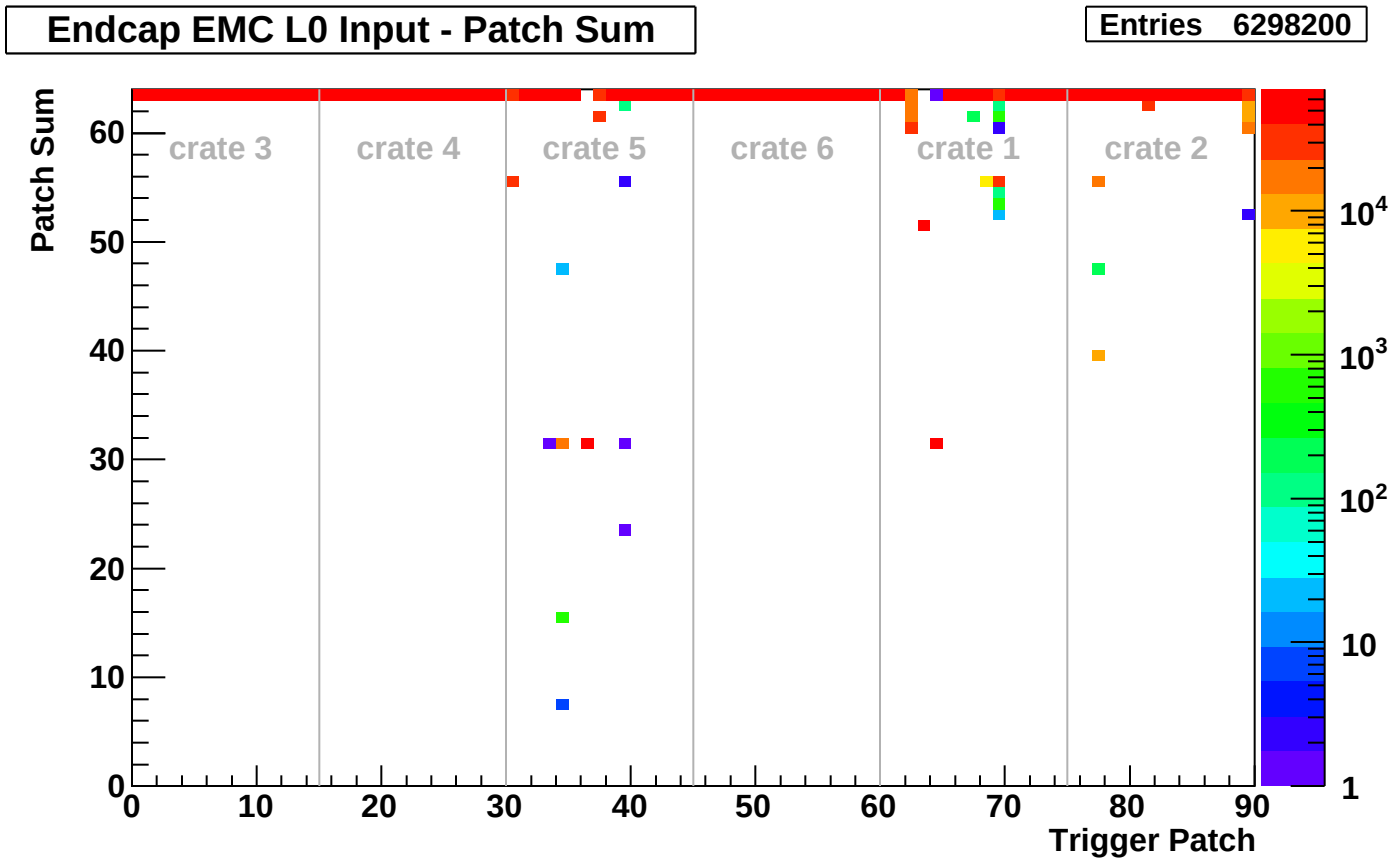

BunchId7Bit (JP1)
Entries 69980

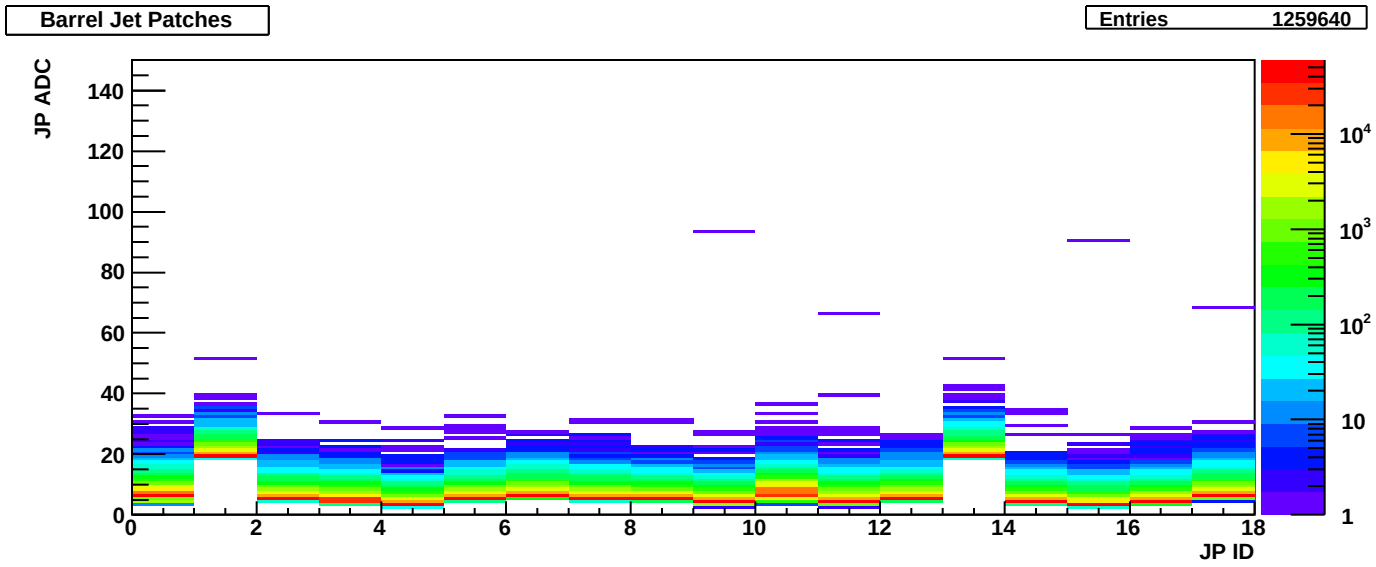

BunchId7Bit (JP2||AJP)
Entries 69980

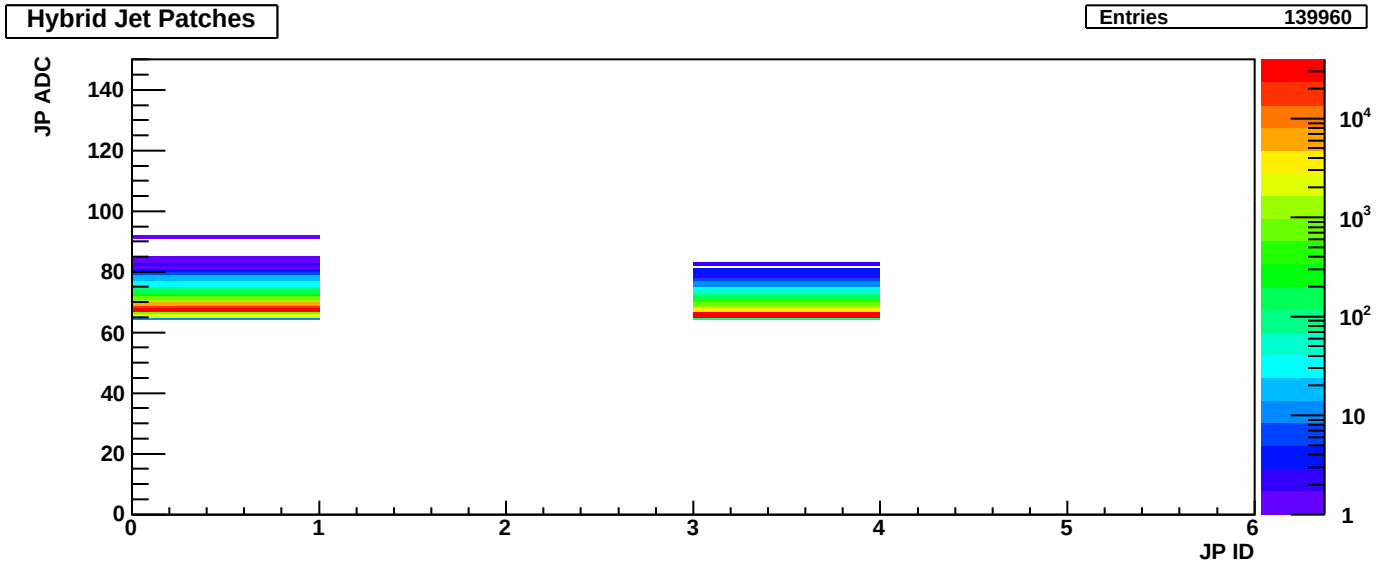

Barrel EMC L0 Input - High Tower
Entries 2.0994e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

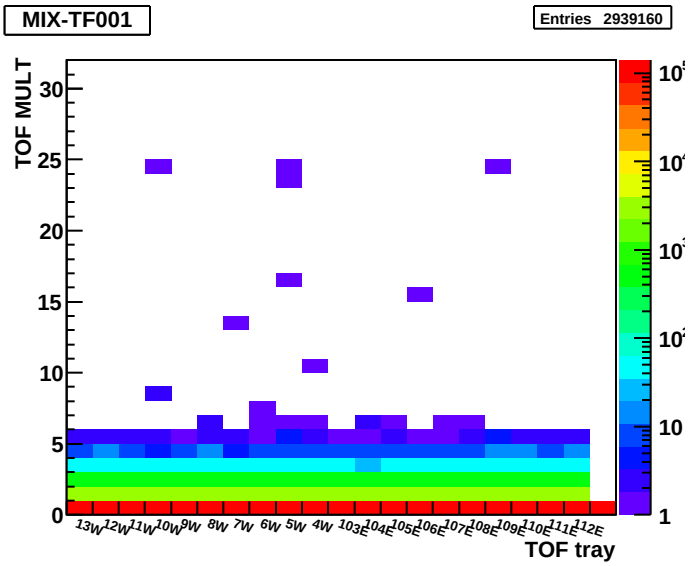

Barrel EMC L0 Input - Patch Sum
Entries 2.0994e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

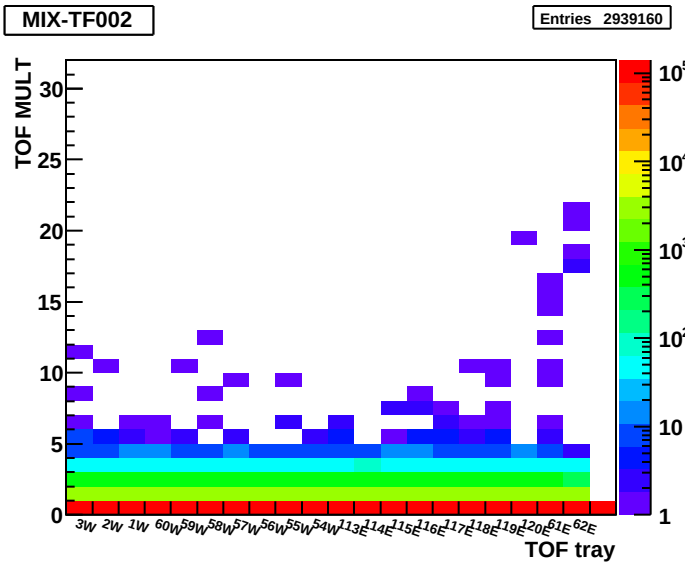

Endcap EMC L0 Input - High Tower
Entries 6298200
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

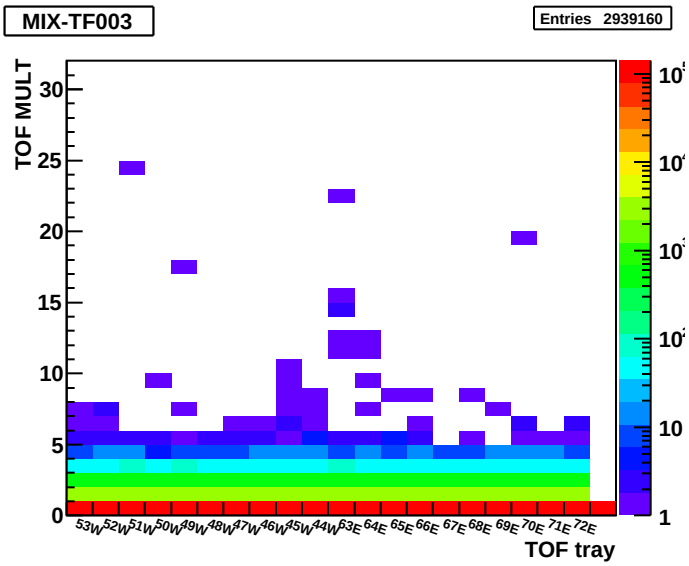

Endcap EMC L0 Input - Patch Sum
Entries 6298200
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

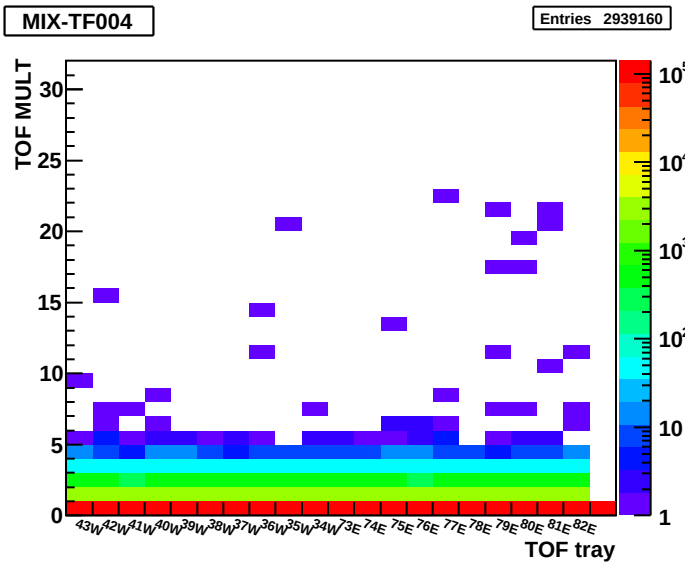

Barrel Jet Patches
Entries 1259640
JP ADC
JP ID

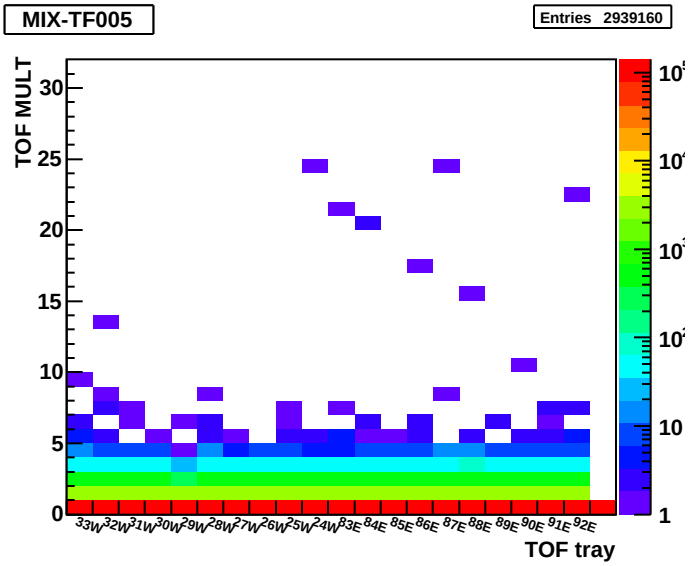

Hybrid Jet Patches
Entries 139960
JP ADC
JP ID

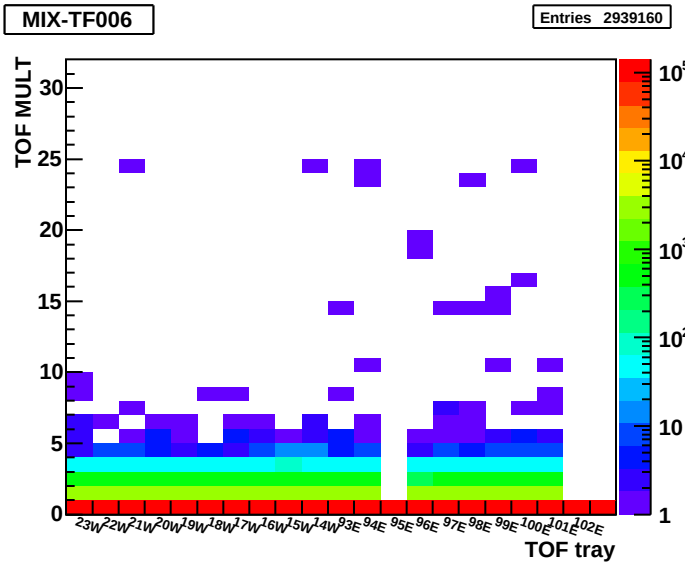

MIX-TF001
Entries 2939160
TOF MULT
TOF tray

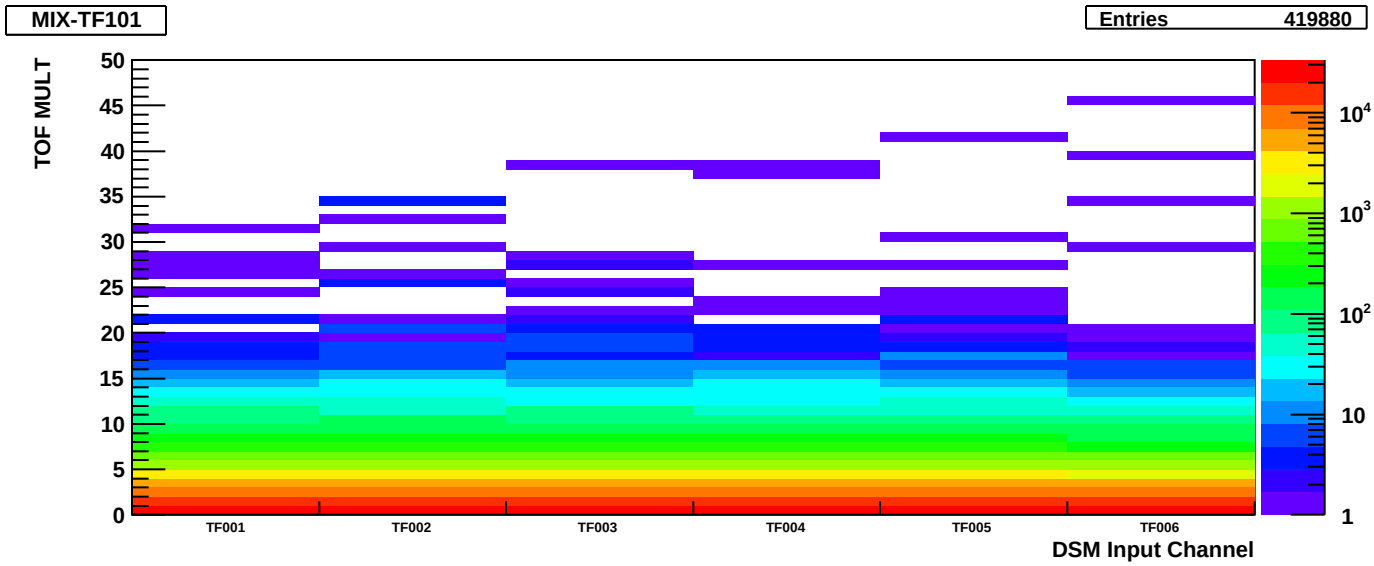

MIX-TF002
Entries 2939160
TOF MULT
TOF tray

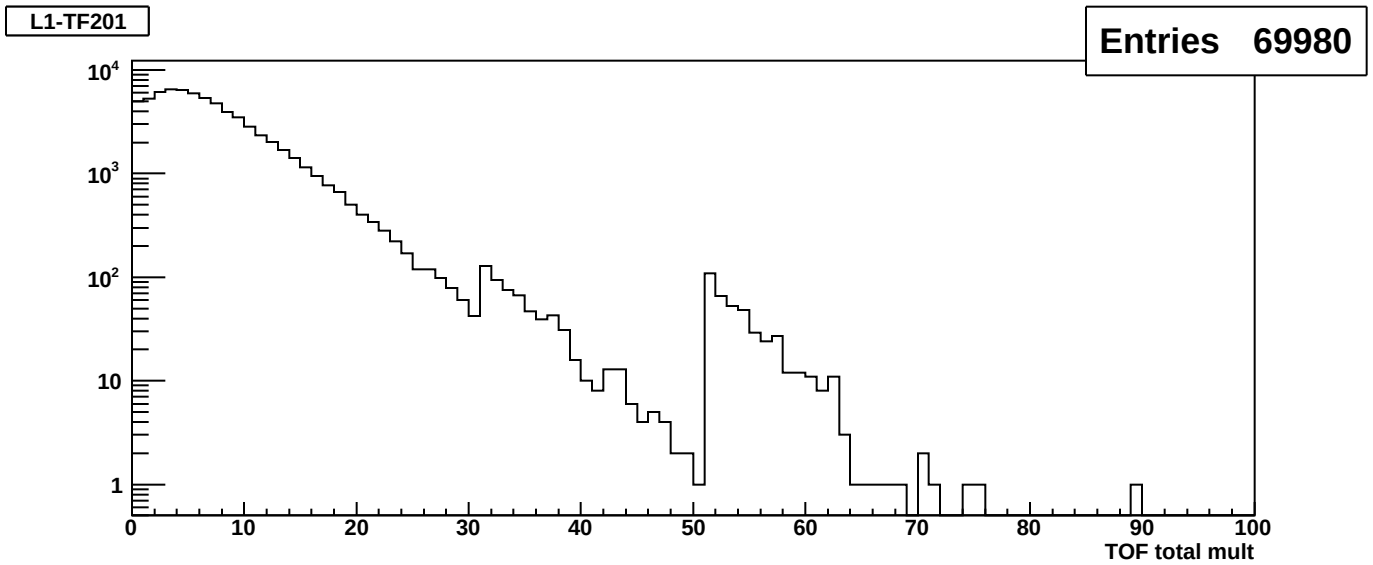

MIX-TF003
Entries 2939160
TOF MULT
TOF tray

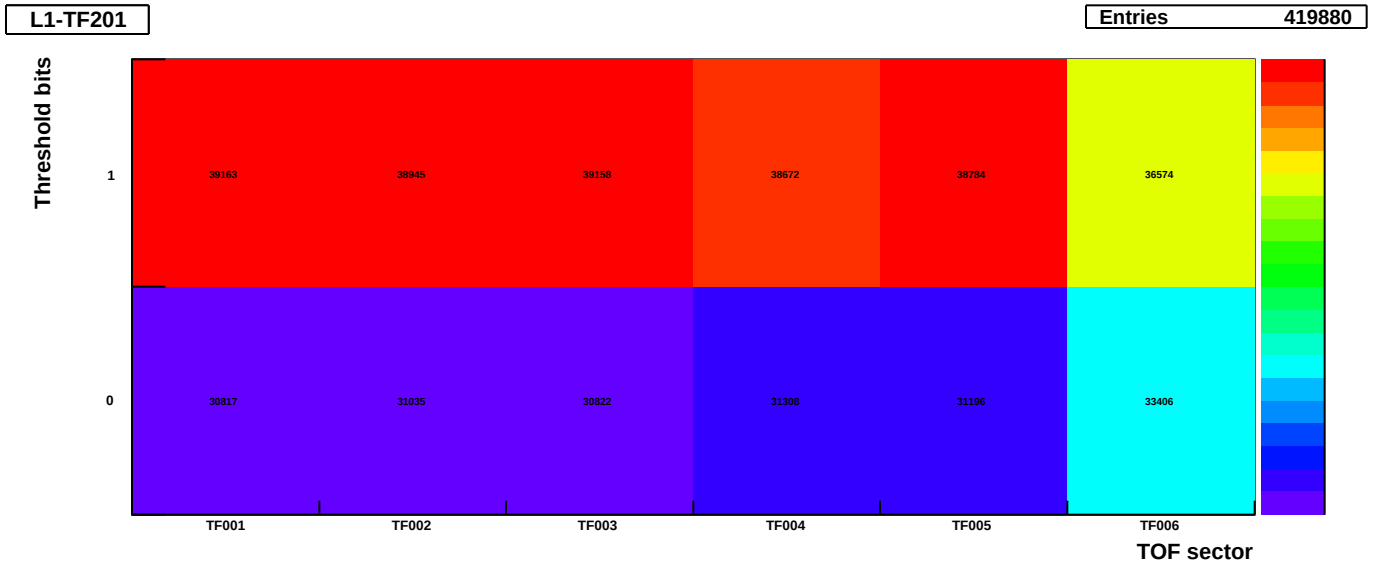

MIX-TF004
Entries 2939160
TOF MULT
TOF tray

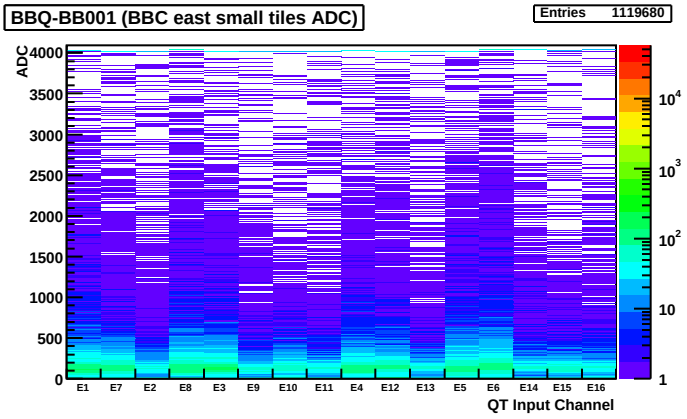

MIX-TF005
Entries 2939160
TOF MULT
TOF tray

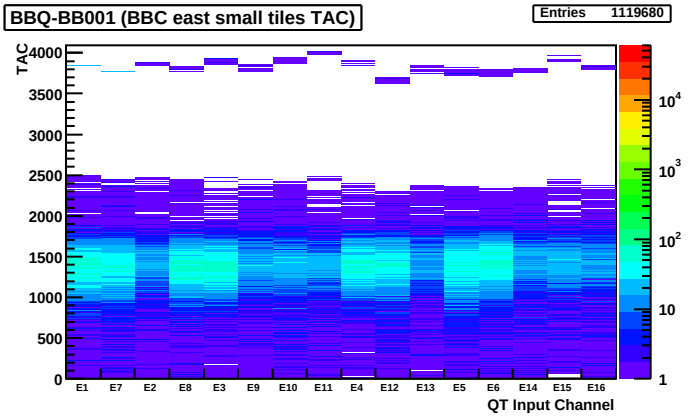

MIX-TF006
Entries 2939160
TOF MULT
TOF tray

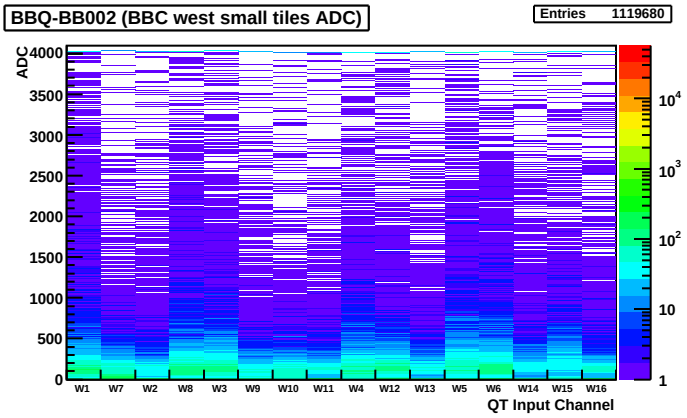

MIX-TF101
Entries 419880
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

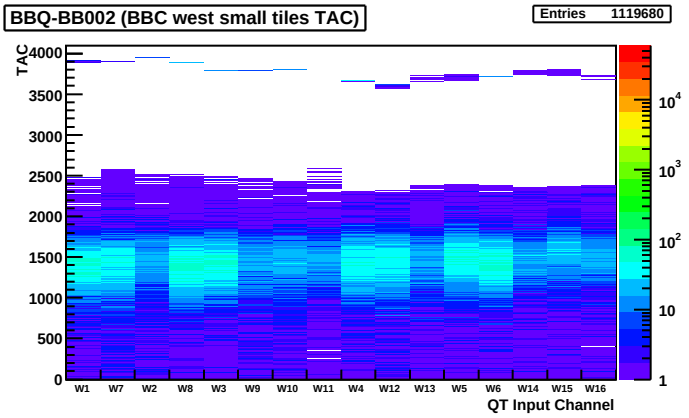

L1-TF201
Entries 69980
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

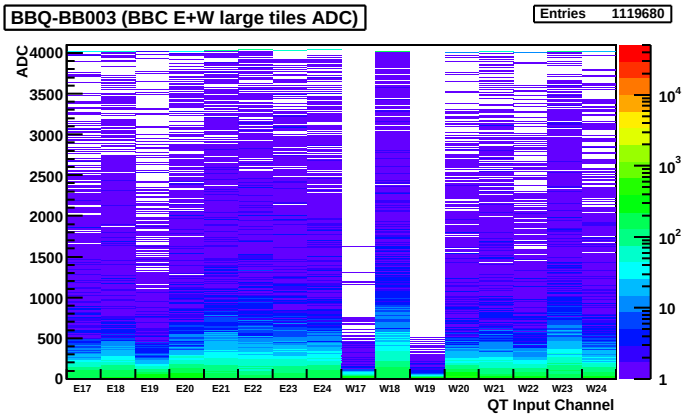

L1-TF201
Entries 419880
Threshold bits
1
0
39163
38945
39158
38672
38784
36574
30817
31035
30822
31308
31196
33406
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

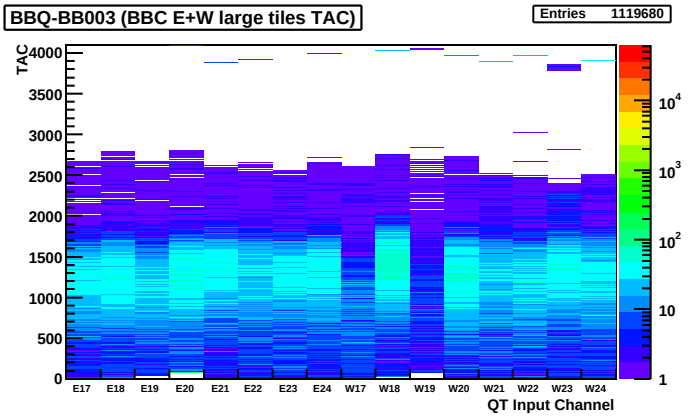

BBQ-BB001 (BBC east small tiles ADC)
Entries 1119680
ADC
QT Input Channel

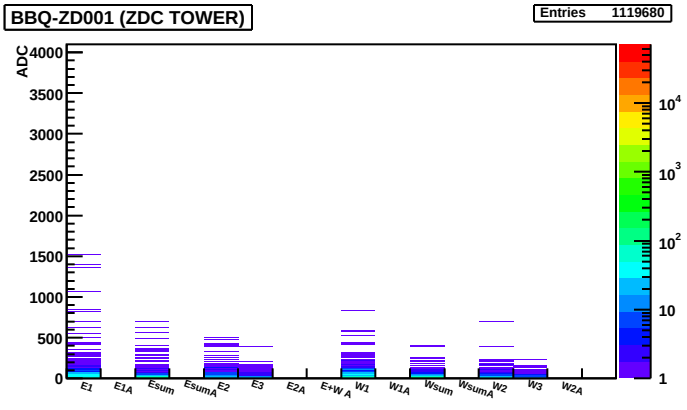

BBQ-BB001 (BBC east small tiles TAC)
Entries 1119680
TAC
QT Input Channel

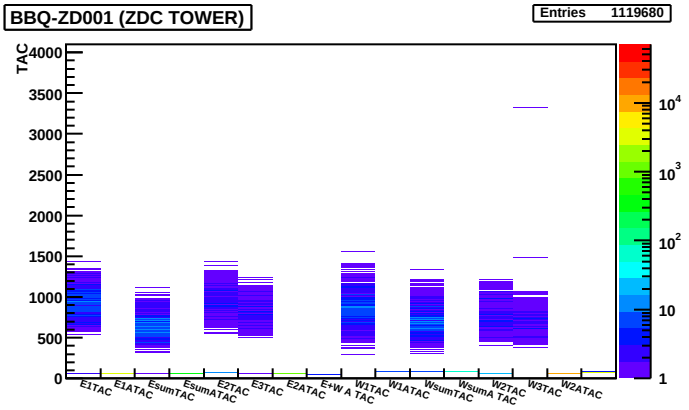

BBQ-BB002 (BBC west small tiles ADC)
Entries 1119680
ADC
QT Input Channel

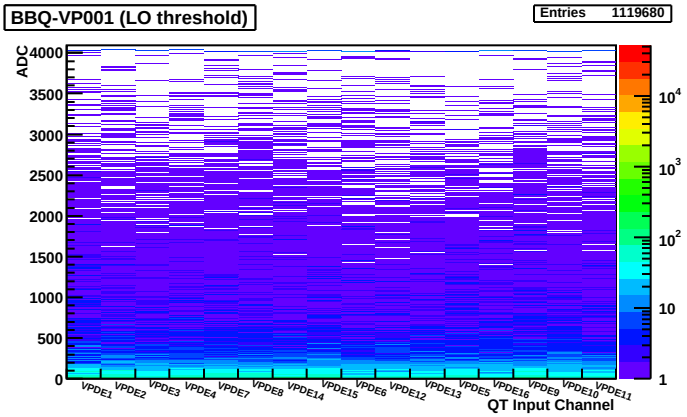

BBQ-BB002 (BBC west small tiles TAC)
Entries 1119680
TAC
QT Input Channel

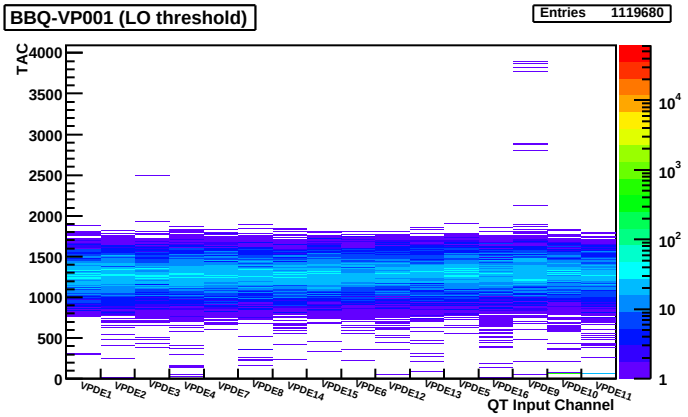

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1119680
ADC
QT Input Channel

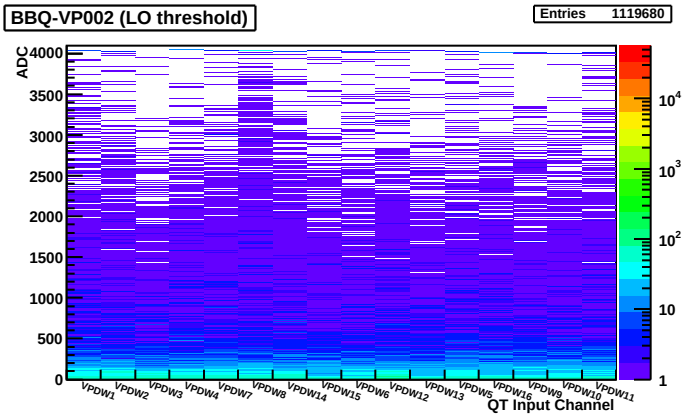

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1119680
TAC
QT Input Channel

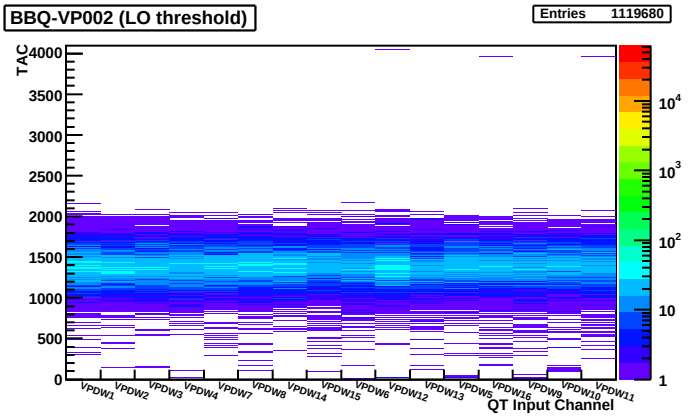

BBQ-ZD001 (ZDC TOWER)
Entries 1119680
ADC

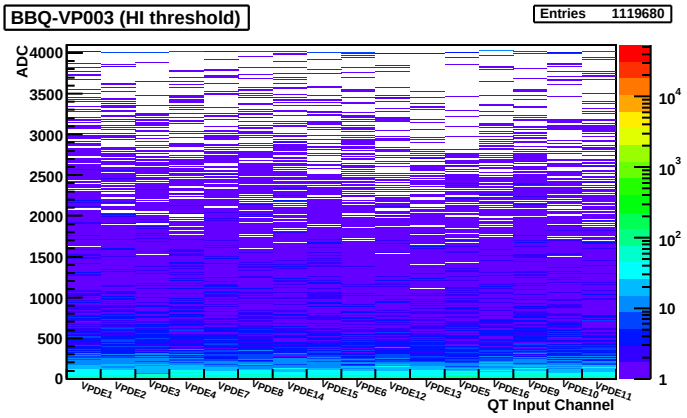

BBQ-ZD001 (ZDC TOWER)
Entries 1119680
TAC

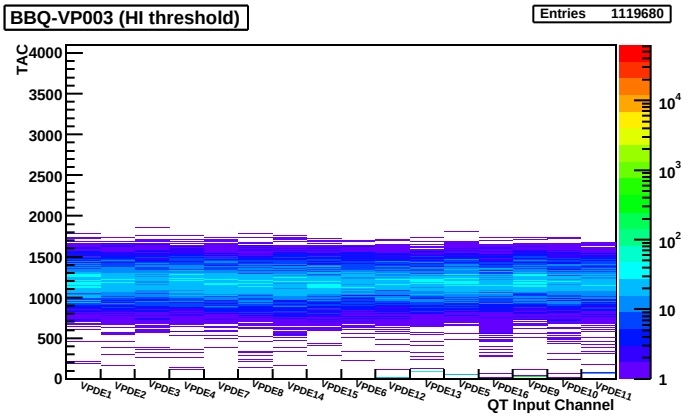

BBQ-VP001 (LO threshold)
Entries 1119680
ADC
QT Input Channel

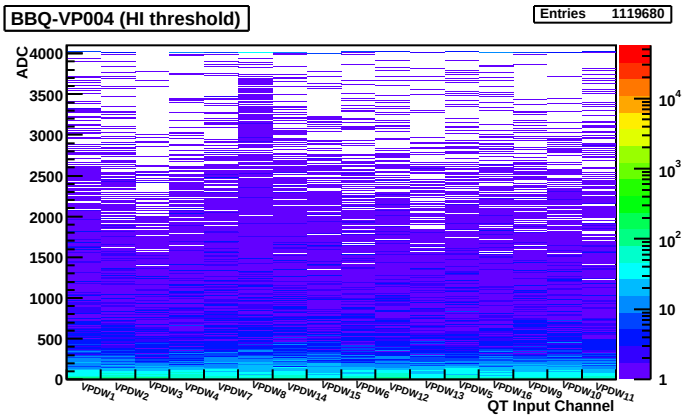

BBQ-VP001 (LO threshold)
Entries 1119680
TAC
QT Input Channel

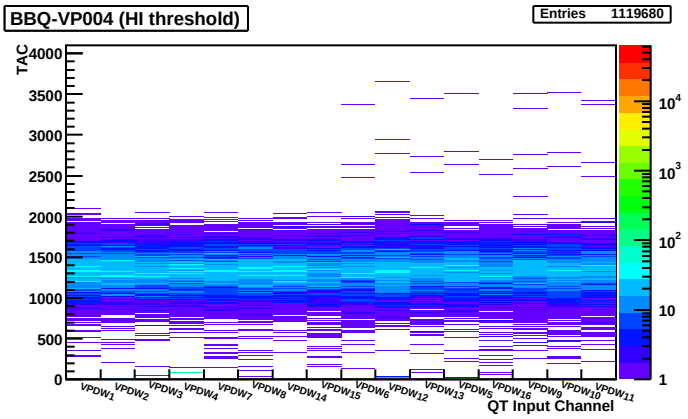

BBQ-VP002 (LO threshold)
Entries 1119680
ADC
QT Input Channel

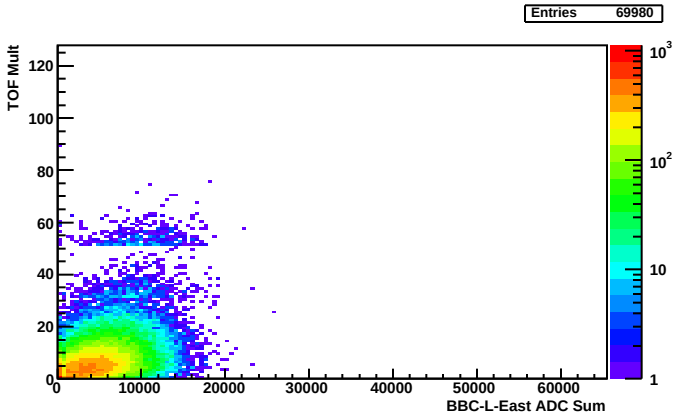

BBQ-VP002 (LO threshold)
Entries 1119680
TAC
QT Input Channel

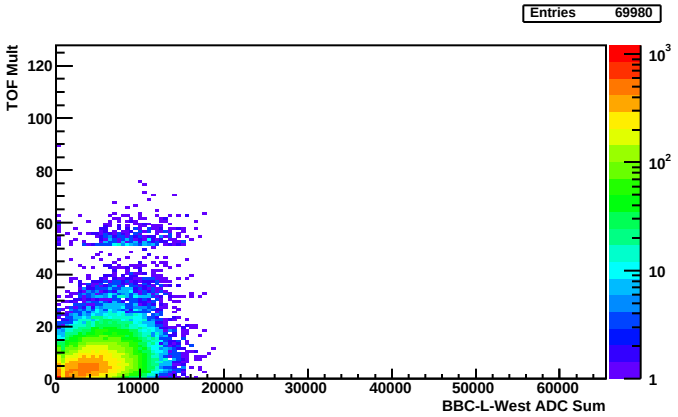

BBQ-VP003 (HI threshold)
Entries 1119680
ADC
QT Input Channel

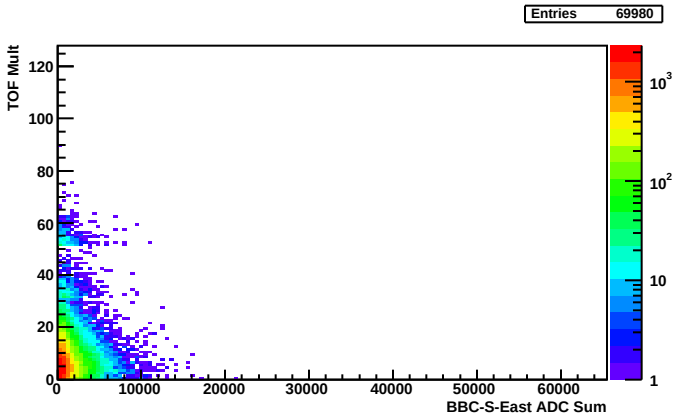

BBQ-VP003 (HI threshold)
Entries 1119680
TAC
QT Input Channel

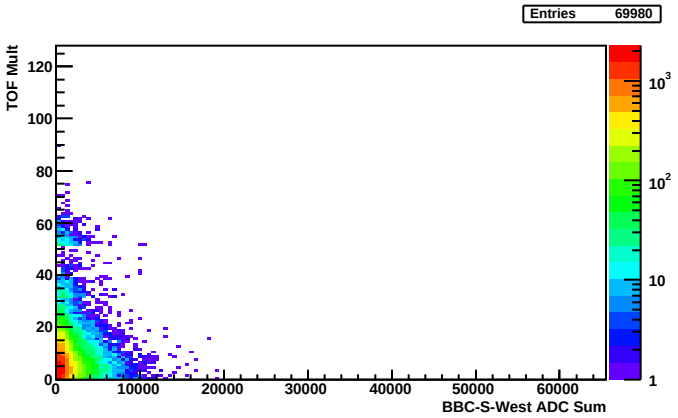

BBQ-VP004 (HI threshold)
Entries 1119680
ADC
QT Input Channel

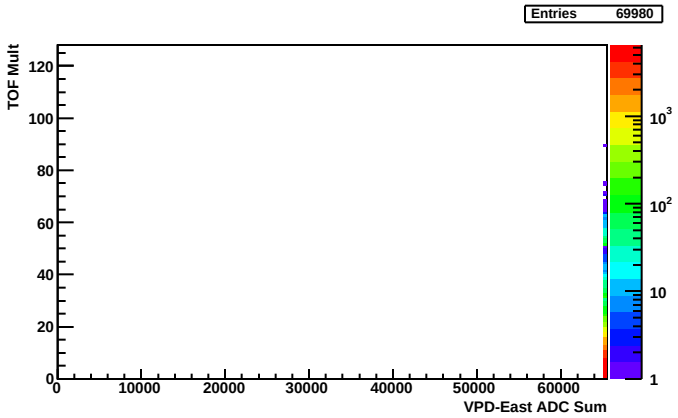

BBQ-VP004 (HI threshold)
Entries 1119680
TAC
QT Input Channel

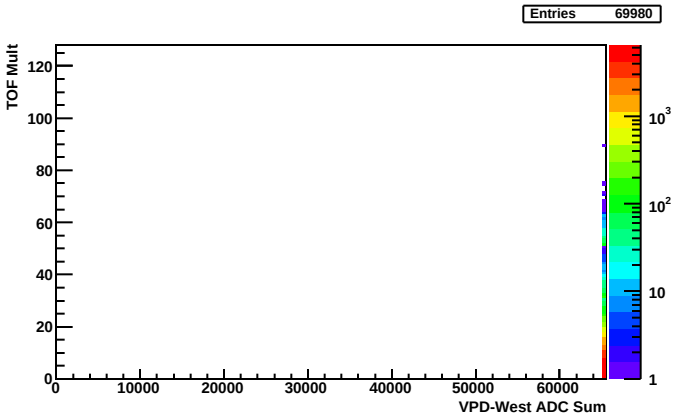

Entries 69980
TOF Mult
BBC-L-East ADC Sum

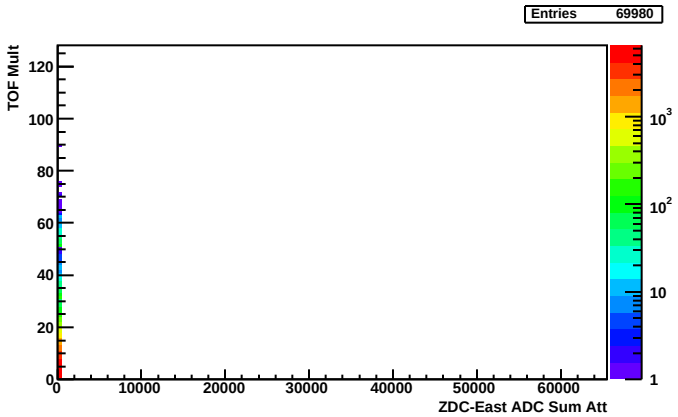

Entries 69980
TOF Mult
BBC-L-West ADC Sum

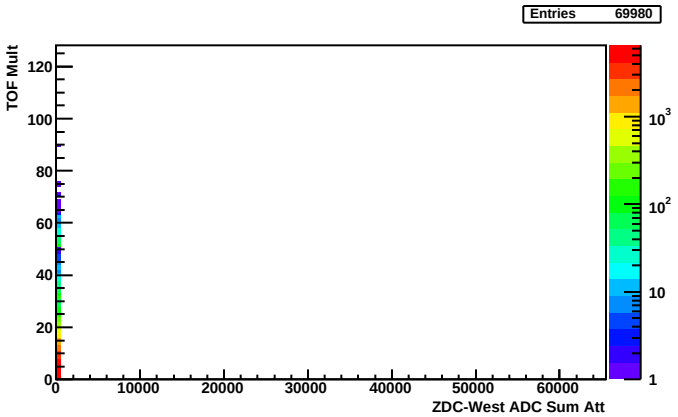

Entries 69980
TOF Mult
BBC-S-East ADC Sum

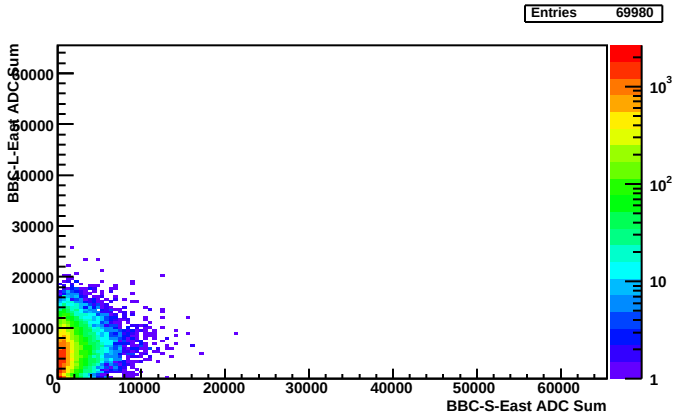

Entries 69980
TOF Mult
BBC-S-West ADC Sum

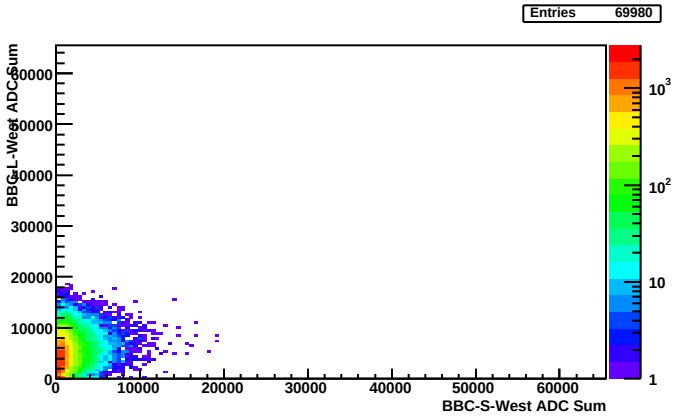

Entries 69980
TOF Mult
VPD-East ADC Sum

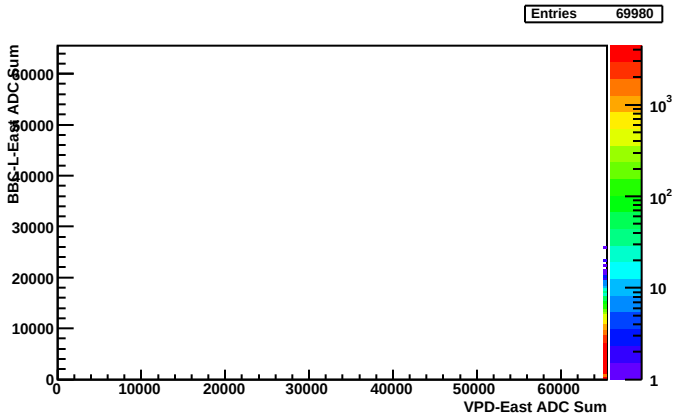

Entries 69980
TOF Mult
VPD-West ADC Sum

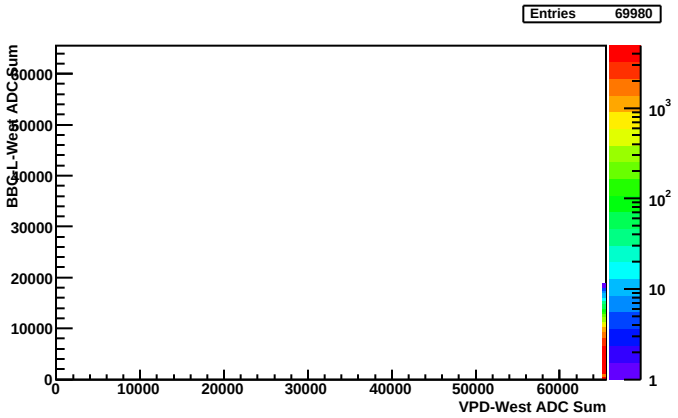

Entries 69980
TOF Mult
ZDC-East ADC Sum Att

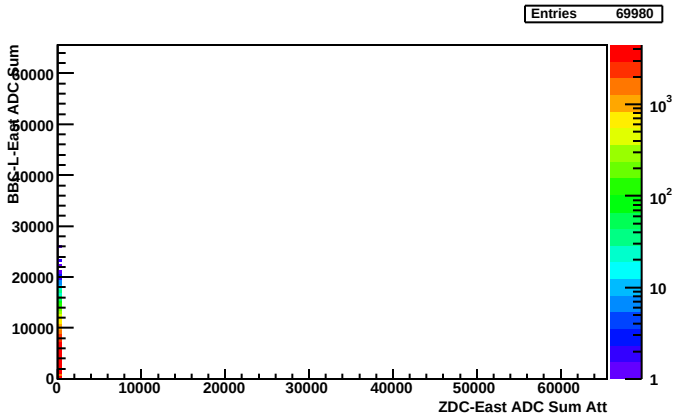

Entries 69980
TOF Mult
ZDC-West ADC Sum Att

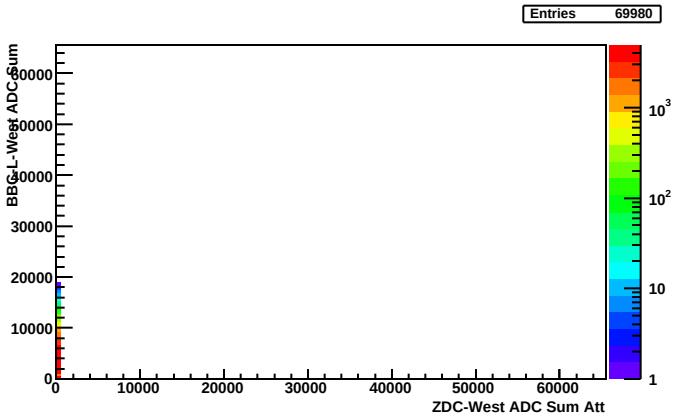

Entries 69980
BBC-L-East ADC Sum
BBC-S-East ADC Sum

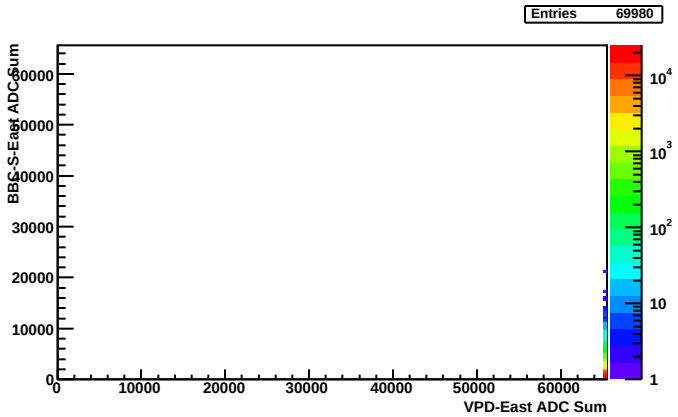

Entries 69980
BBC-L-West ADC Sum
BBC-S-West ADC Sum

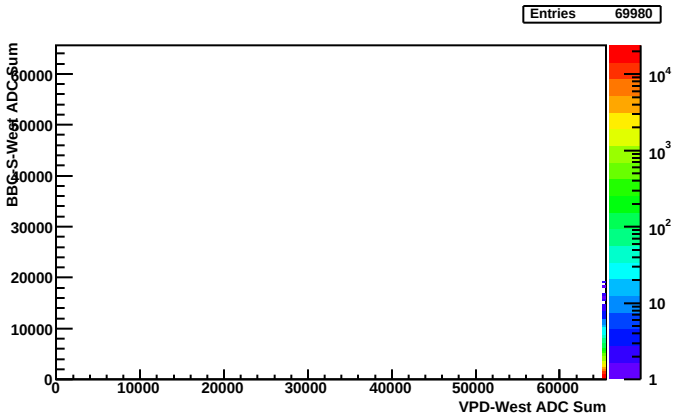

Entries 69980
BBC-L-East ADC Sum
VPD-East ADC Sum

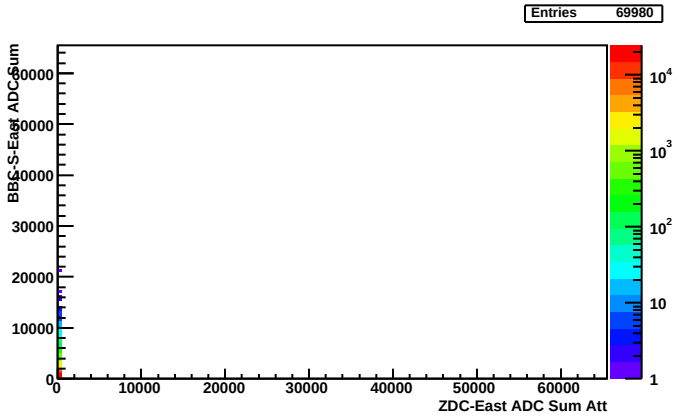

Entries 69980
BBC-L-West ADC Sum
VPD-West ADC Sum

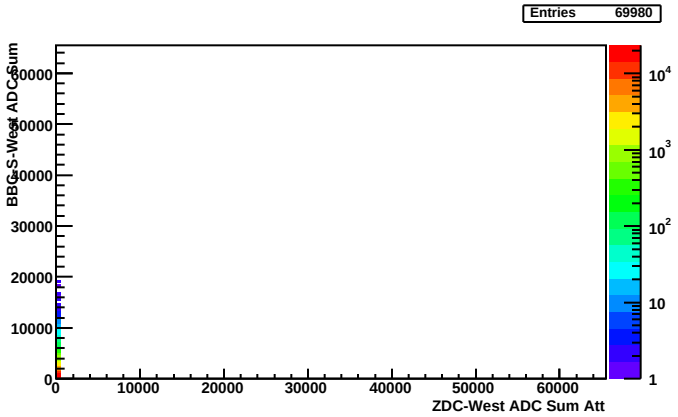

Entries 69980
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

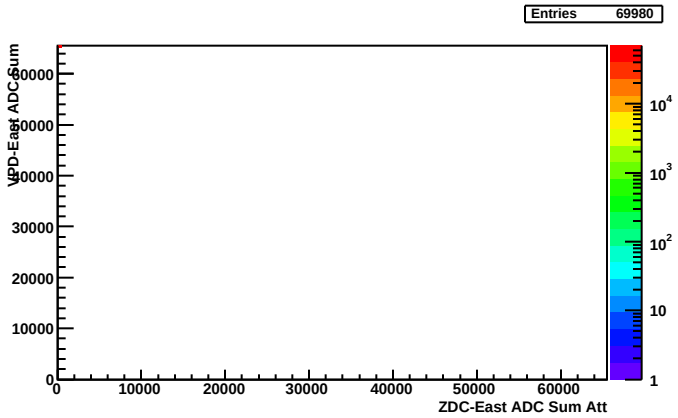

Entries 69980
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

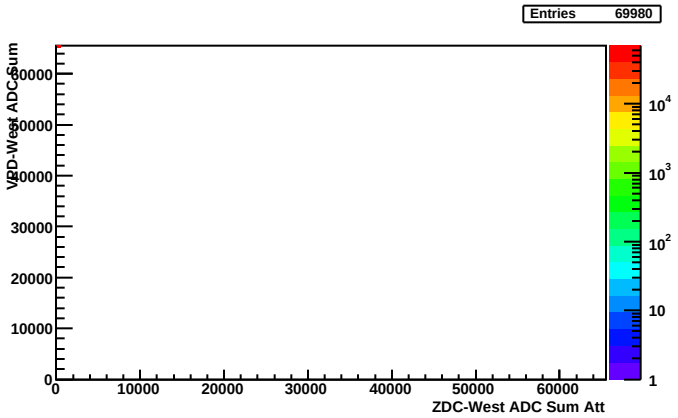

Entries 69980
BBC-S-East ADC Sum
VPD-East ADC Sum

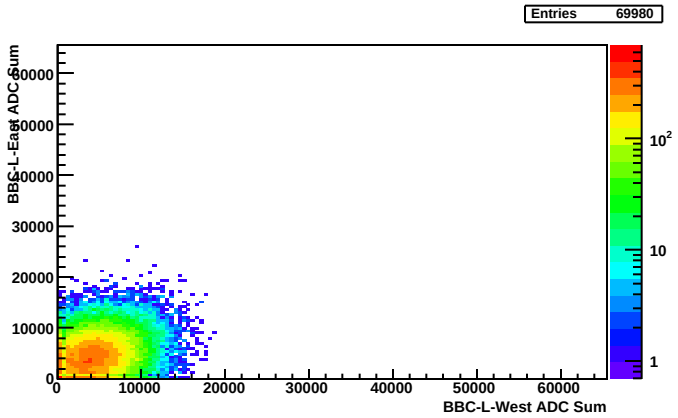

Entries 69980
BBC-S-West ADC Sum
VPD-West ADC Sum

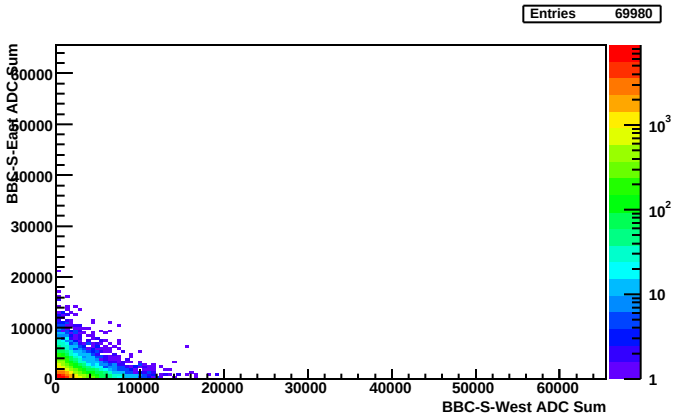

Entries 69980
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

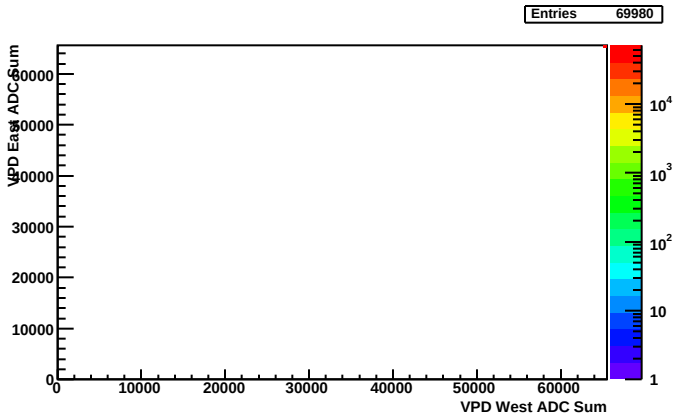

Entries 69980
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

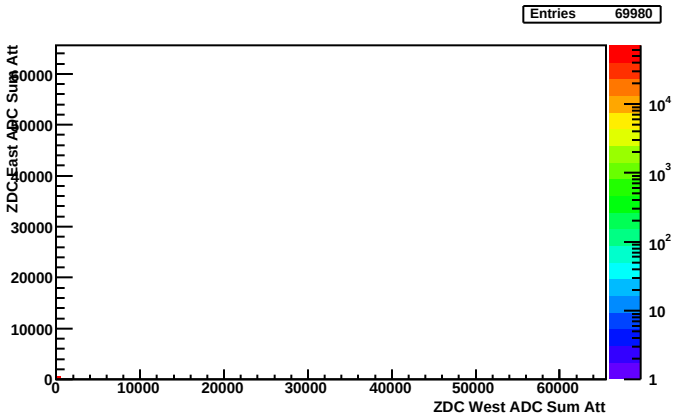

Entries 69980
VPD-East ADC Sum
ZDC-East ADC Sum Att

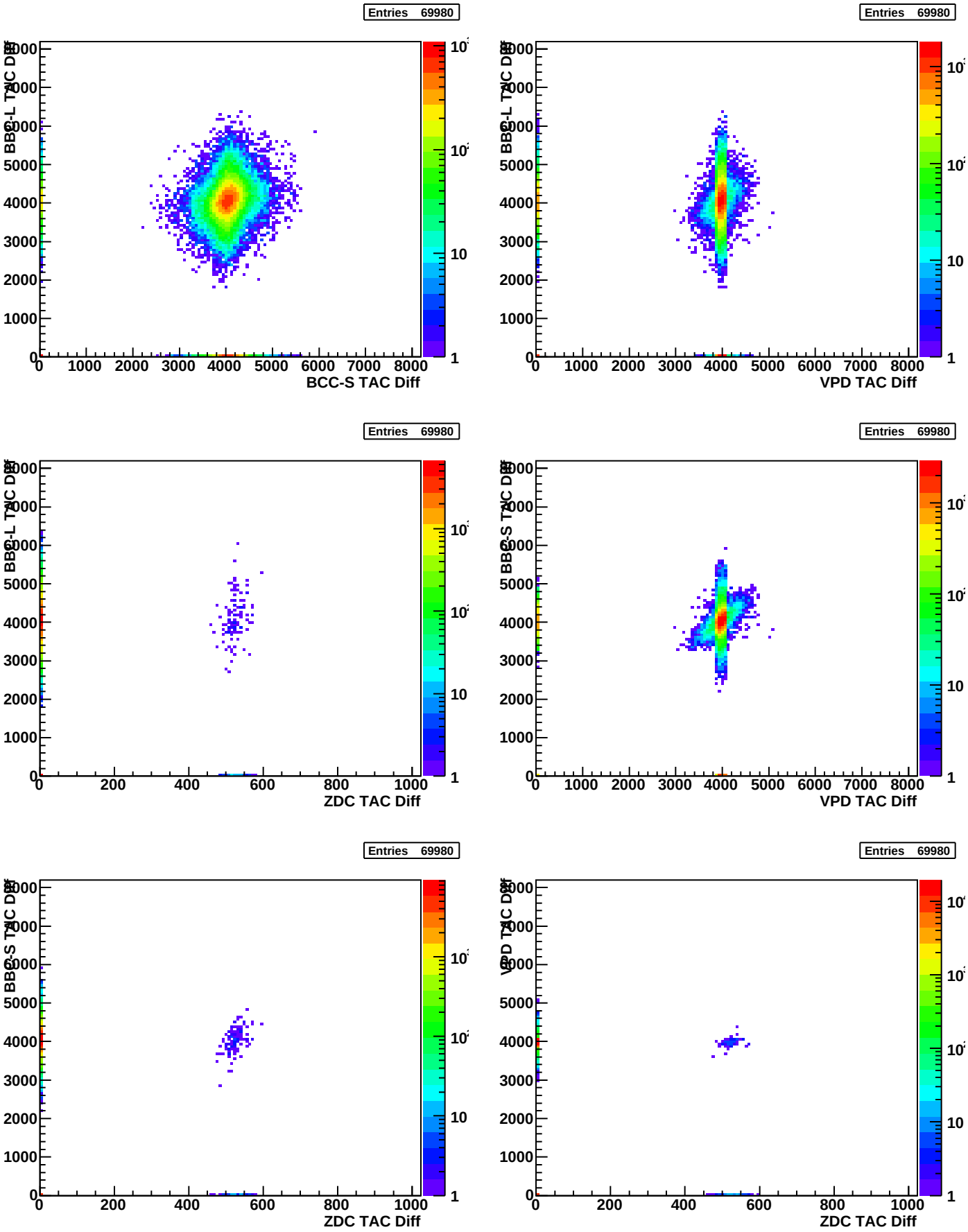

Entries 69980
VPD-West ADC Sum
ZDC-West ADC Sum Att

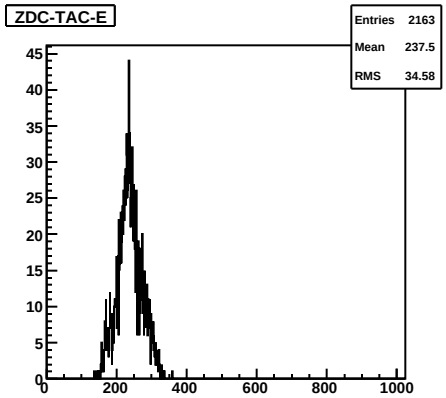

Entries 69980
BBC-L-East ADC Sum
BBC-L-West ADC Sum

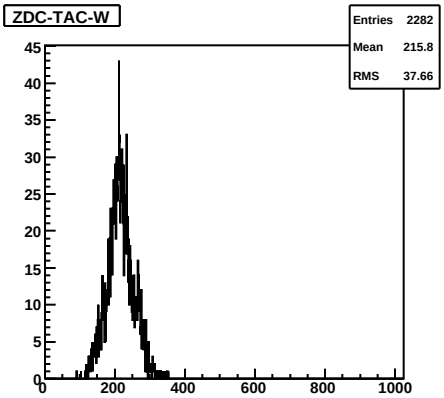

Entries 69980
BBC-S-East ADC Sum
BBC-S-West ADC Sum

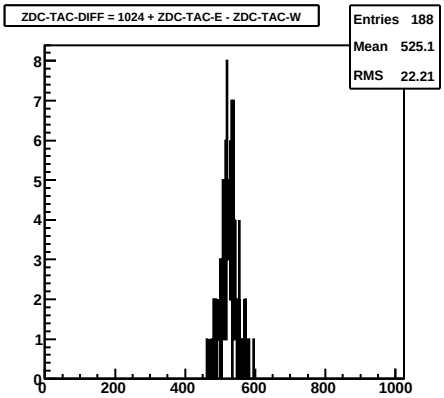

Entries 69980
VPD East ADC Sum
VPD West ADC Sum

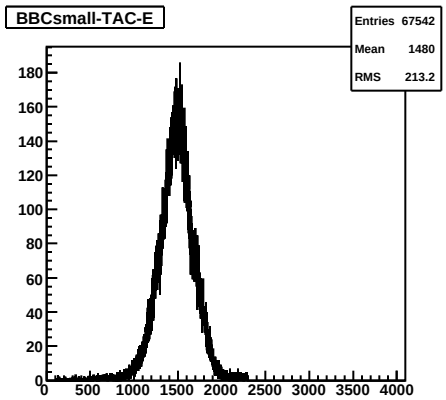

Entries 69980
ZDC East ADC Sum Att
ZDC West ADC Sum Att

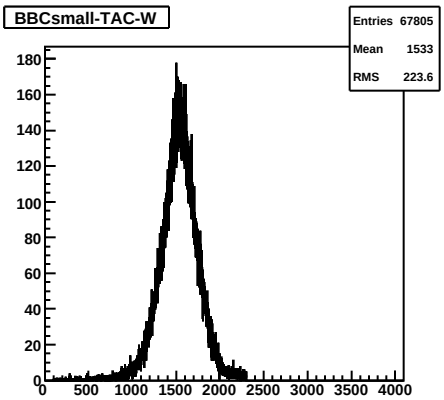

Entries 69980
BBC-L TAC Diff
BCC-S TAC Diff
Entries 69980
BBC-L TAC Diff
VPD TAC Diff
Entries 69980
BBC-L TAC Diff
ZDC TAC Diff
Entries 69980
BBC-S TAC Diff
VPD TAC Diff
Entries 69980
BBC-S TAC Diff
ZDC TAC Diff
Entries 69980
VPD TAC Diff
ZDC TAC Diff

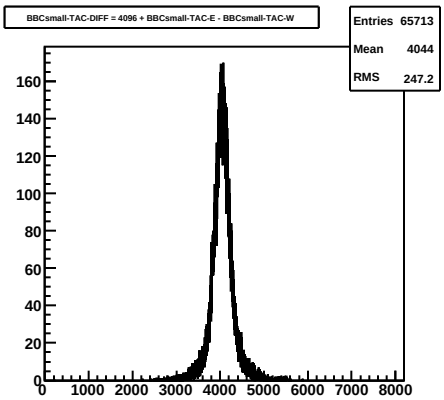

ZDC-TAC-E
Entries 2163
Mean 237.5
RMS 34.58

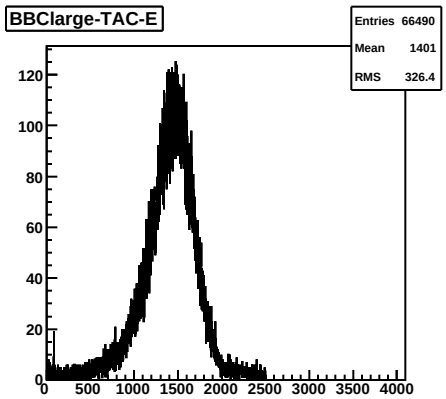

ZDC-TAC-W
Entries 2282
Mean 215.8
RMS 37.66

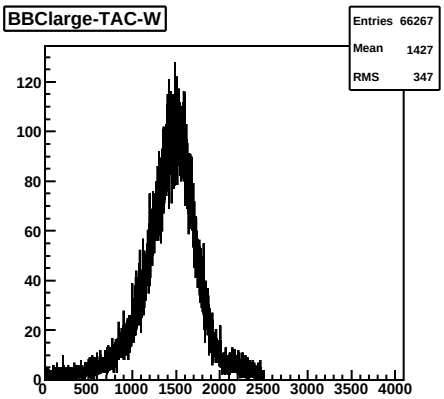

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 188
Mean 525.1
RMS 22.21

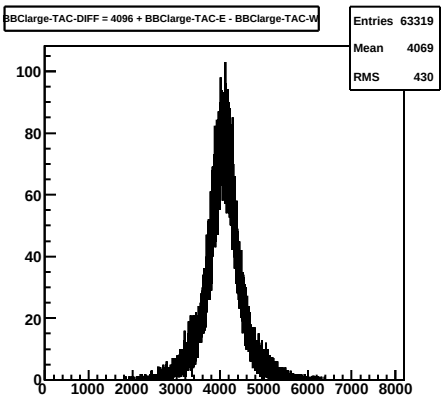

BBCsmall-TAC-E
Entries 67542
Mean 1480
RMS 213.2

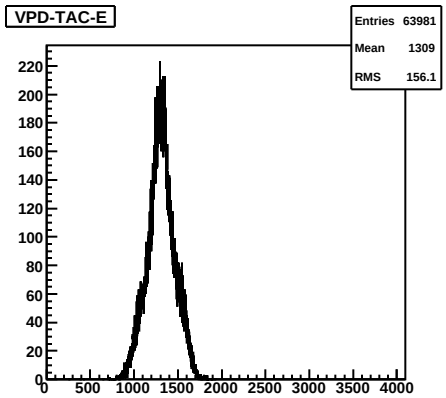

BBCsmall-TAC-W
Entries 67805
Mean 1533
RMS 223.6

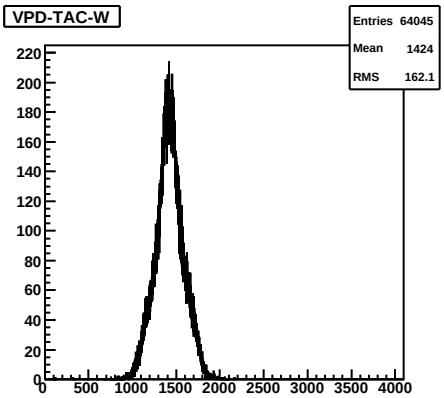

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 65713
Mean 4044
RMS 247.2

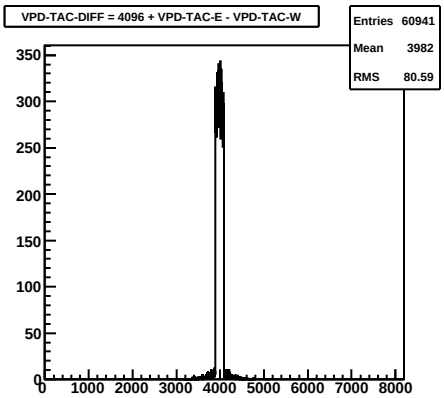

BBClarge-TAC-E
Entries 66490
Mean 1401
RMS 326.4

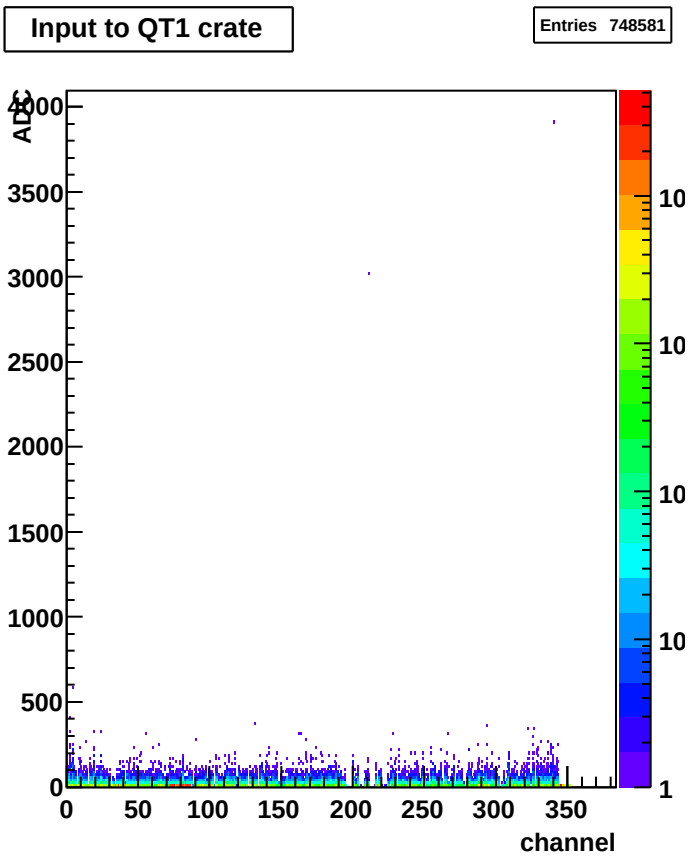

BBClarge-TAC-W
Entries 66267
Mean 1427
RMS 347

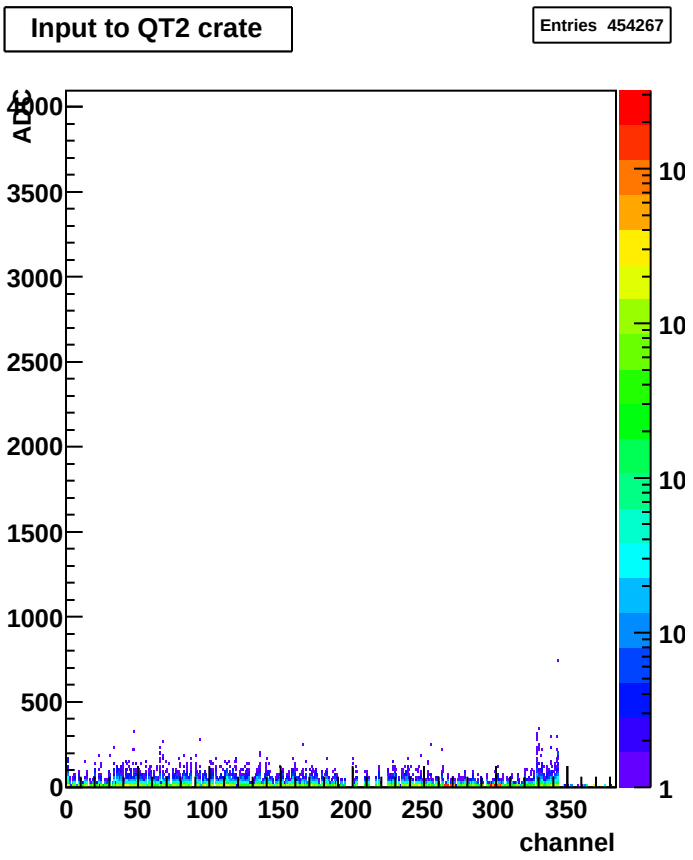

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 63319
Mean 4069
RMS 430

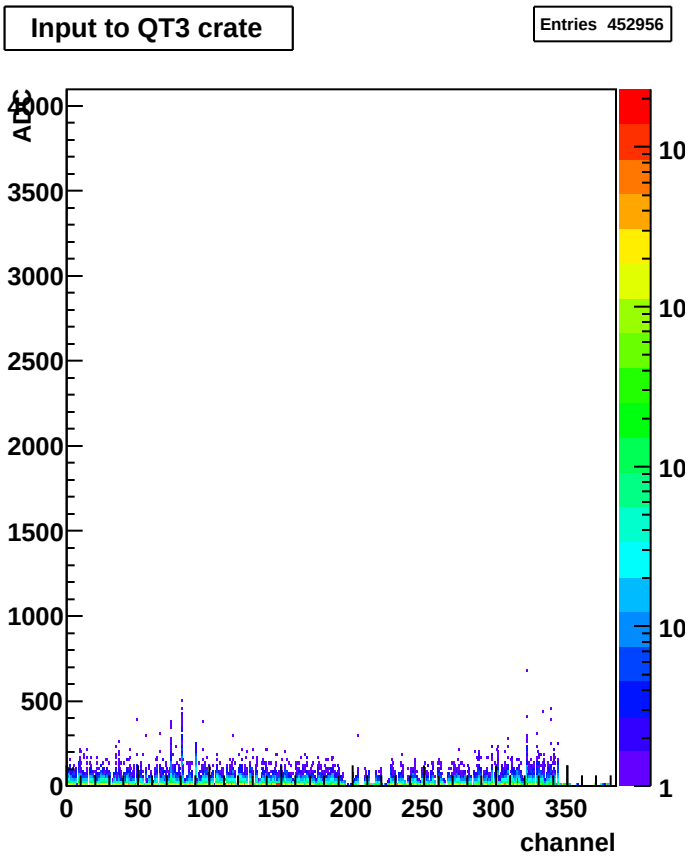

VPD-TAC-E
Entries 63981
Mean 1309
RMS 156.1

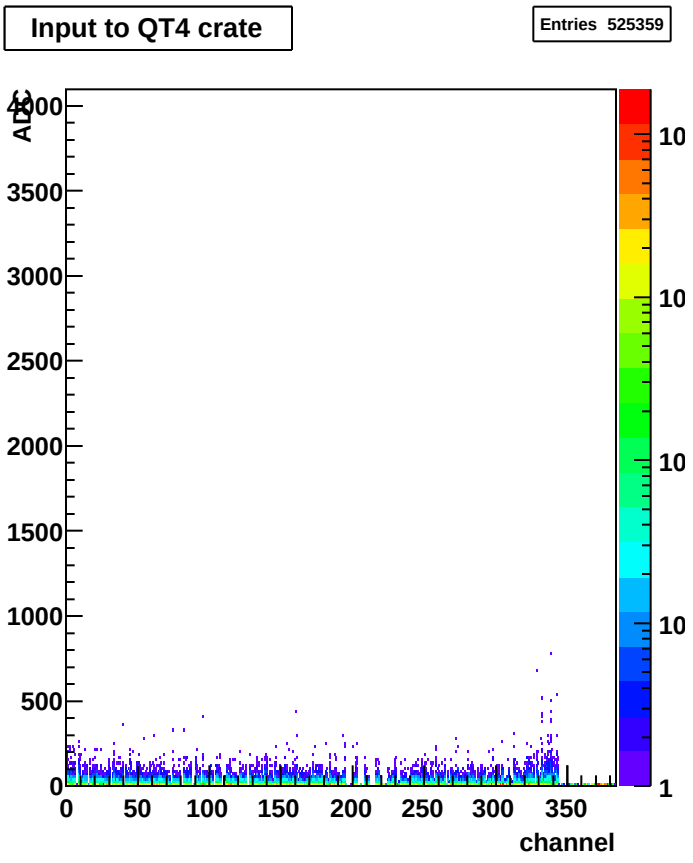

VPD-TAC-W
Entries 64045
Mean 1424
RMS 162.1

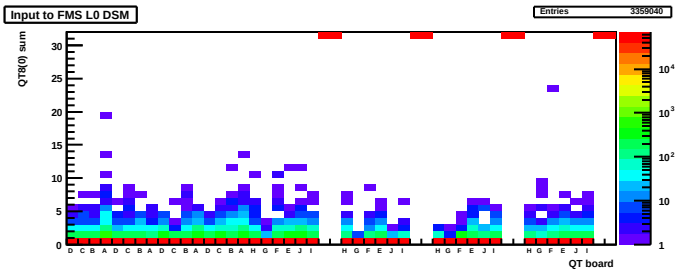

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 60941
Mean 3982
RMS 80.59

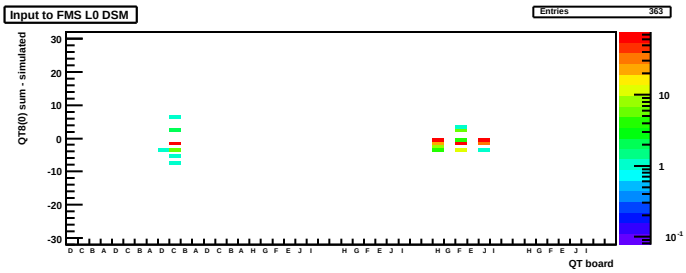

Input to QT1 crate
Entries 748581
ADC
channel

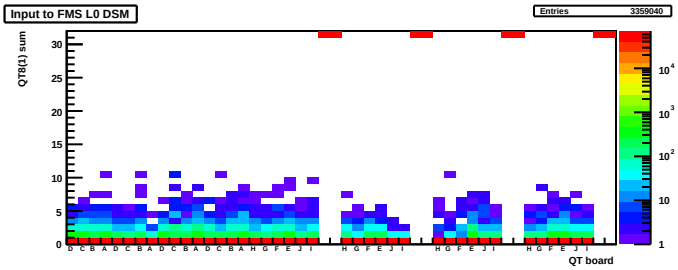

Input to QT2 crate
Entries 454267
ADC
channel

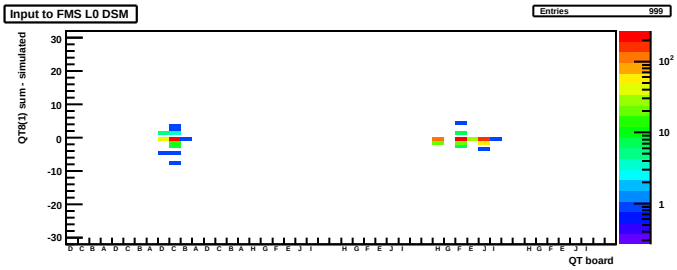

Input to QT3 crate
Entries 452956
ADC
channel

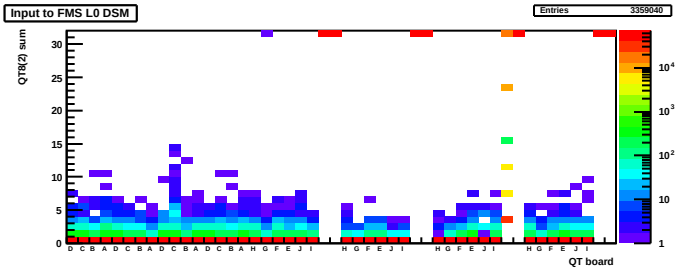

Input to QT4 crate
Entries 525359
ADC
channel

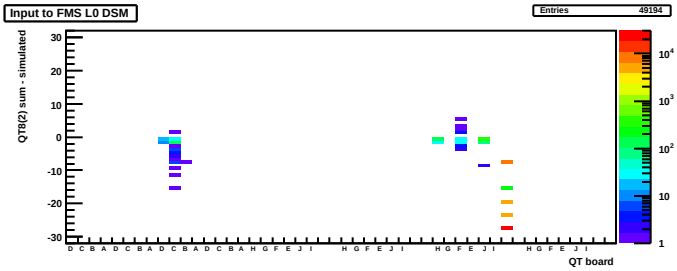

Input to FMS L0 DSM
Entries 3359040
QT8(0) sum
QT board

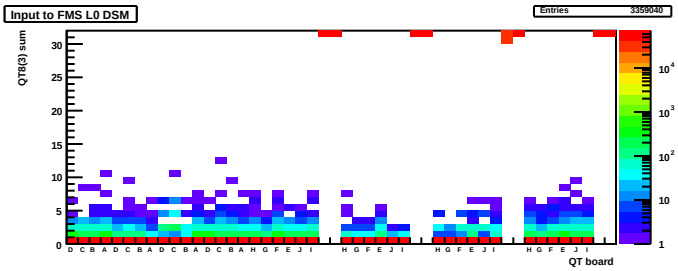

Input to FMS L0 DSM
Entries 363
QT8(0) sum - simulated
QT board

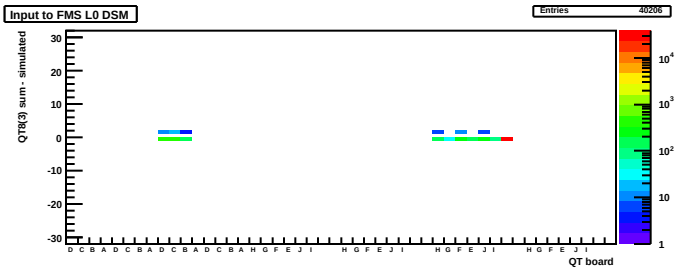

Input to FMS L0 DSM
Entries 3359040
QT8(1) sum
QT board

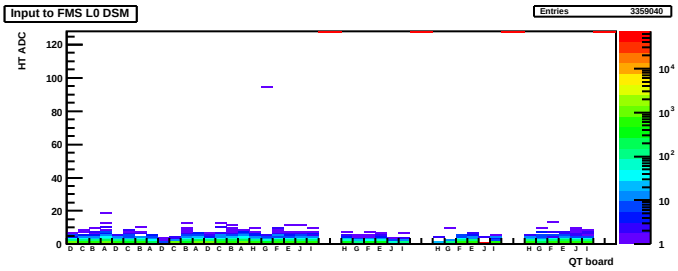

Input to FMS L0 DSM
Entries 999
QT8(1) sum - simulated
QT board

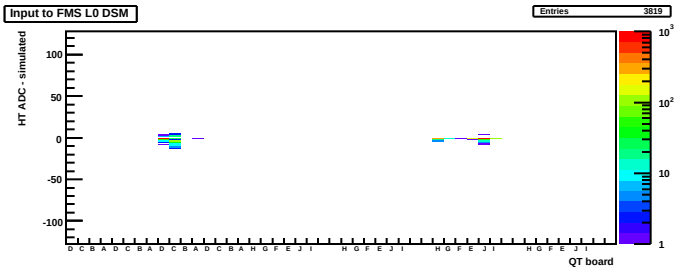

Input to FMS L0 DSM
Entries 3359040
QT8(2) sum
QT board

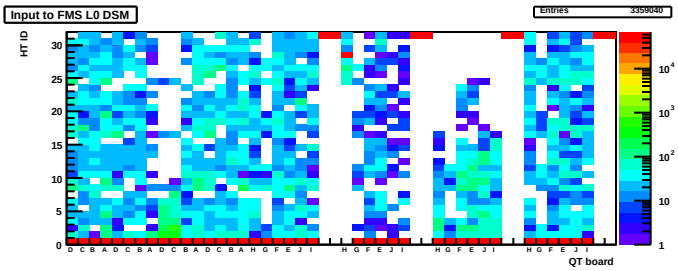

Input to FMS L0 DSM
Entries 49194
QT8(2) sum - simulated
QT board

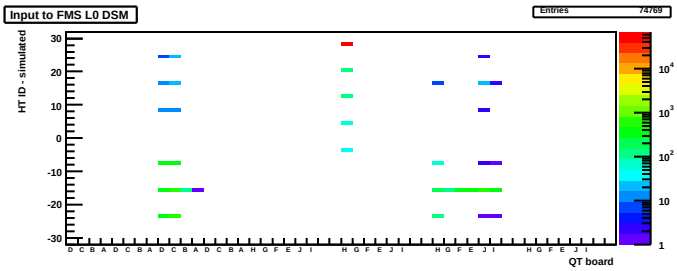

Input to FMS L0 DSM
Entries 3359040
QT8(3) sum
QT board

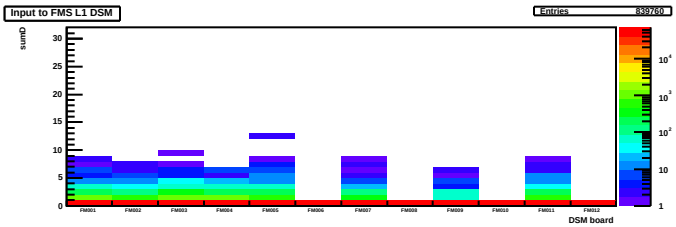

Input to FMS L0 DSM
Entries 40206
QT8(3) sum - simulated
QT board

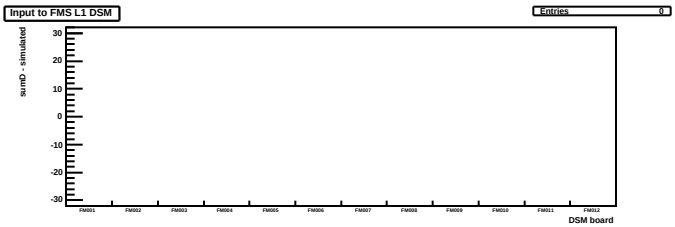

Input to FMS L0 DSM
Entries 3359040
HT ADC
QT board

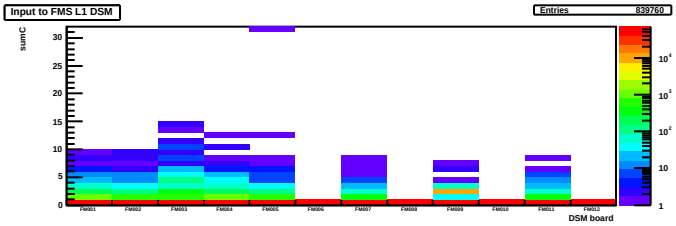

Input to FMS L0 DSM
Entries 3819
HT ADC - simulated
QT board

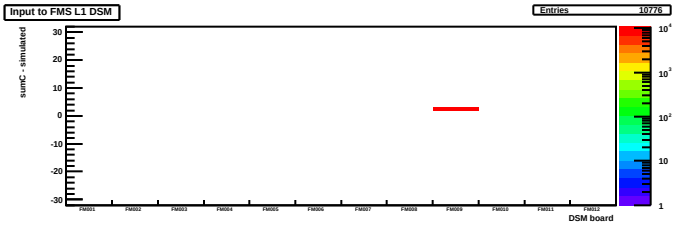

Input to FMS L0 DSM
Entries 3359040
HT ID
QT board

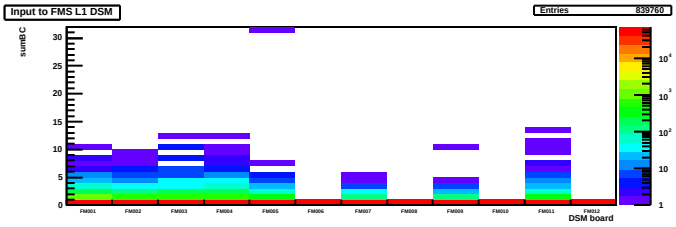

Input to FMS L0 DSM
Entries 74769
HT ID - simulated
QT board

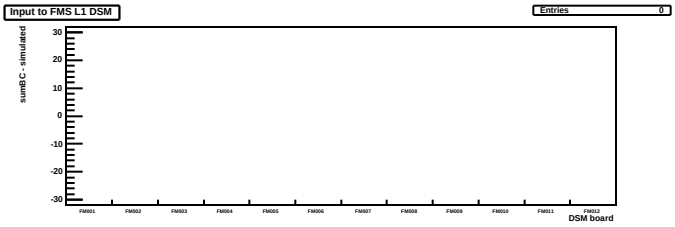

Input to FMS L1 DSM
Entries 839760
sumD
DSM board

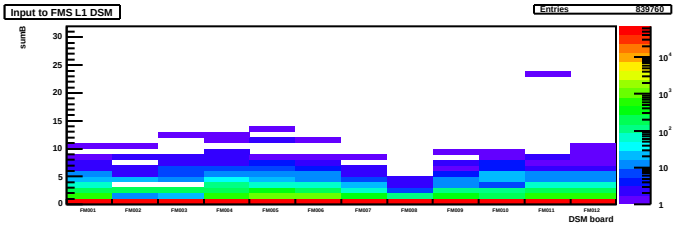

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

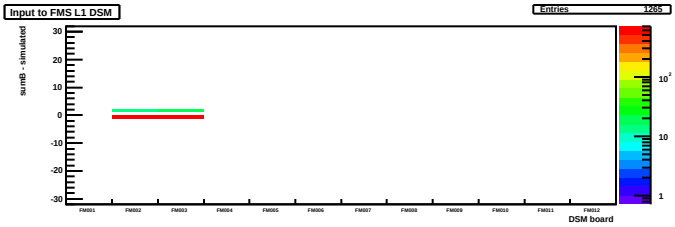

Input to FMS L1 DSM
Entries 839760
sumC
DSM board

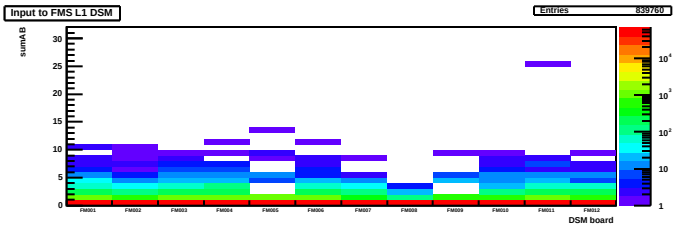

Input to FMS L1 DSM
Entries 10776
sumC - simulated
DSM board

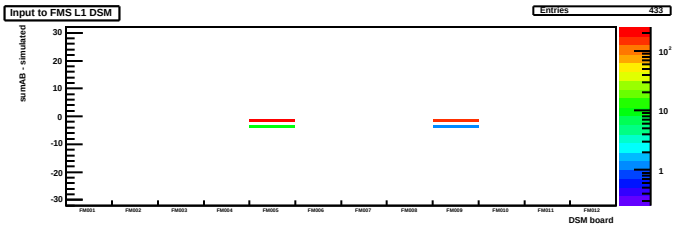

Input to FMS L1 DSM
Entries 839760
sumBC
DSM board

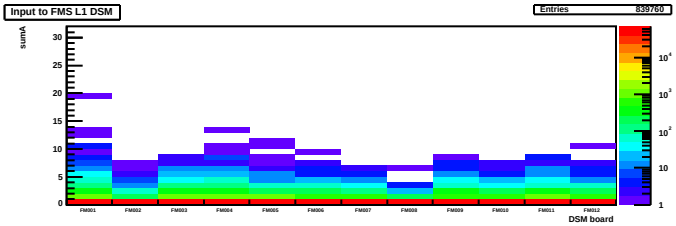

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

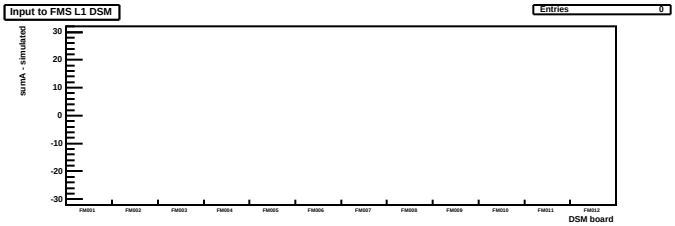

Input to FMS L1 DSM
Entries 839760
sumB
DSM board

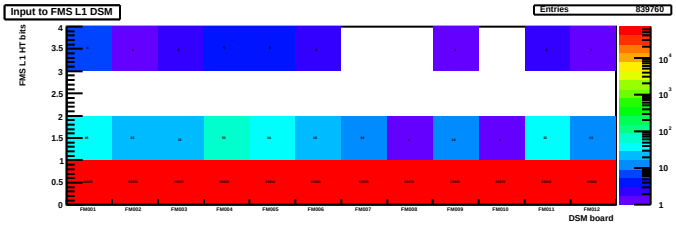

Input to FMS L1 DSM
Entries 1265
sumB - simulated
DSM board

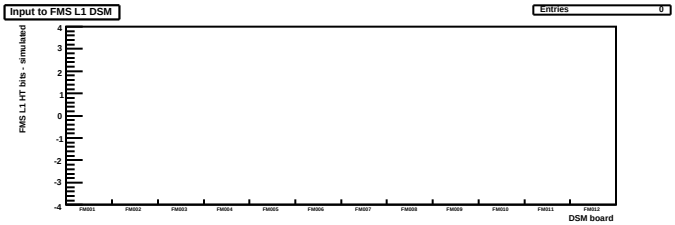

Input to FMS L1 DSM
Entries 839760
sumAB
DSM board

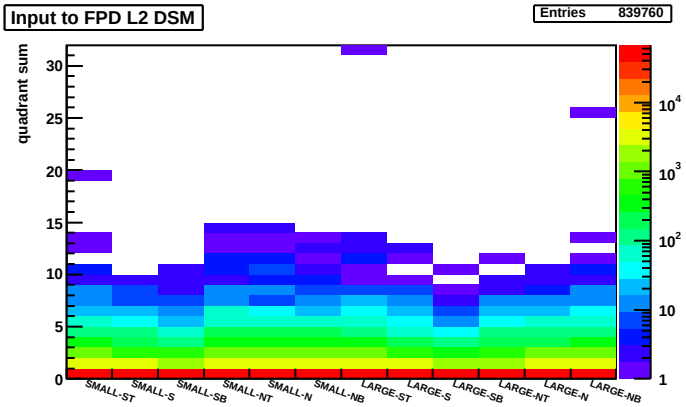

Input to FMS L1 DSM
Entries 433
sumAB - simulated
DSM board

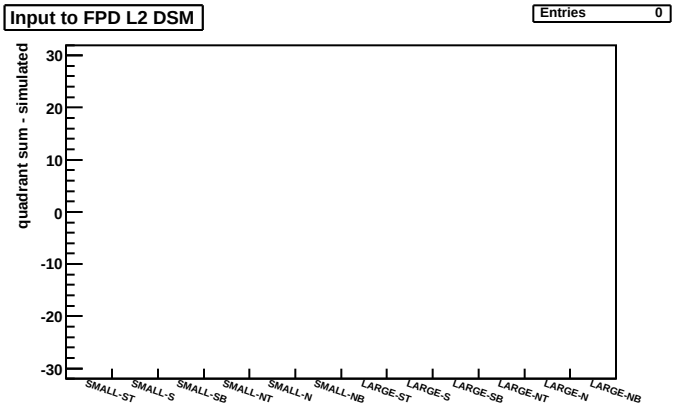

Input to FMS L1 DSM
Entries 839760
sumA
DSM board

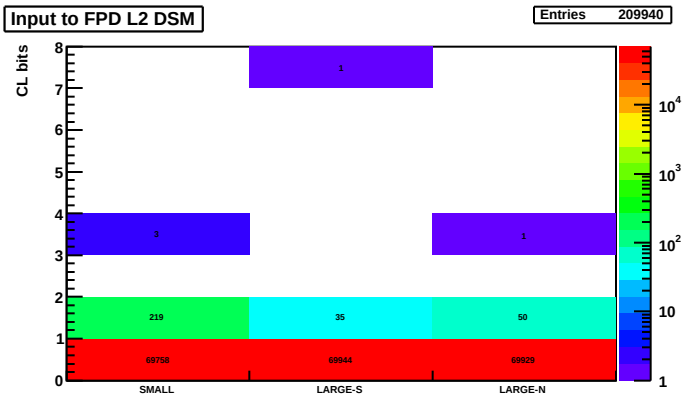

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

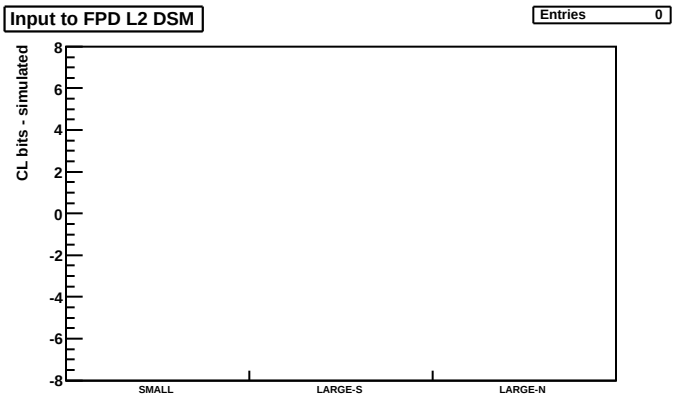

Input to FMS L1 DSM
Entries 839760
FMS L1 HT bits
DSM board

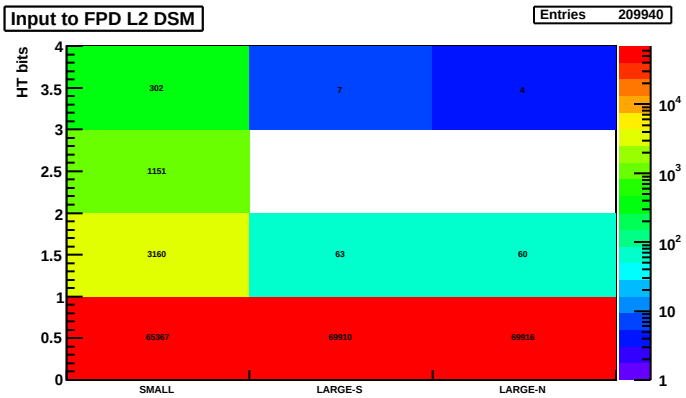

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

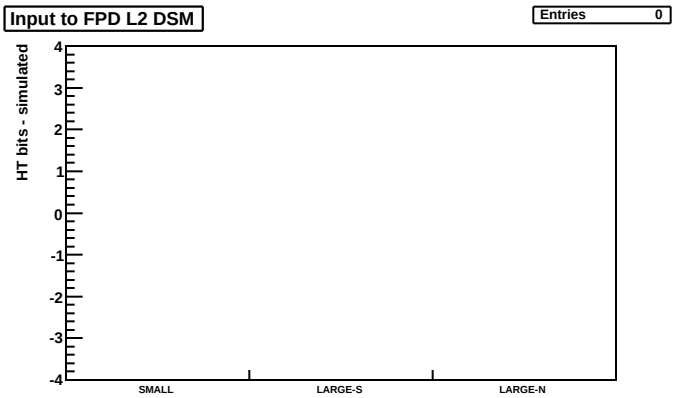

Input to FPD L2 DSM
Entries 839760
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

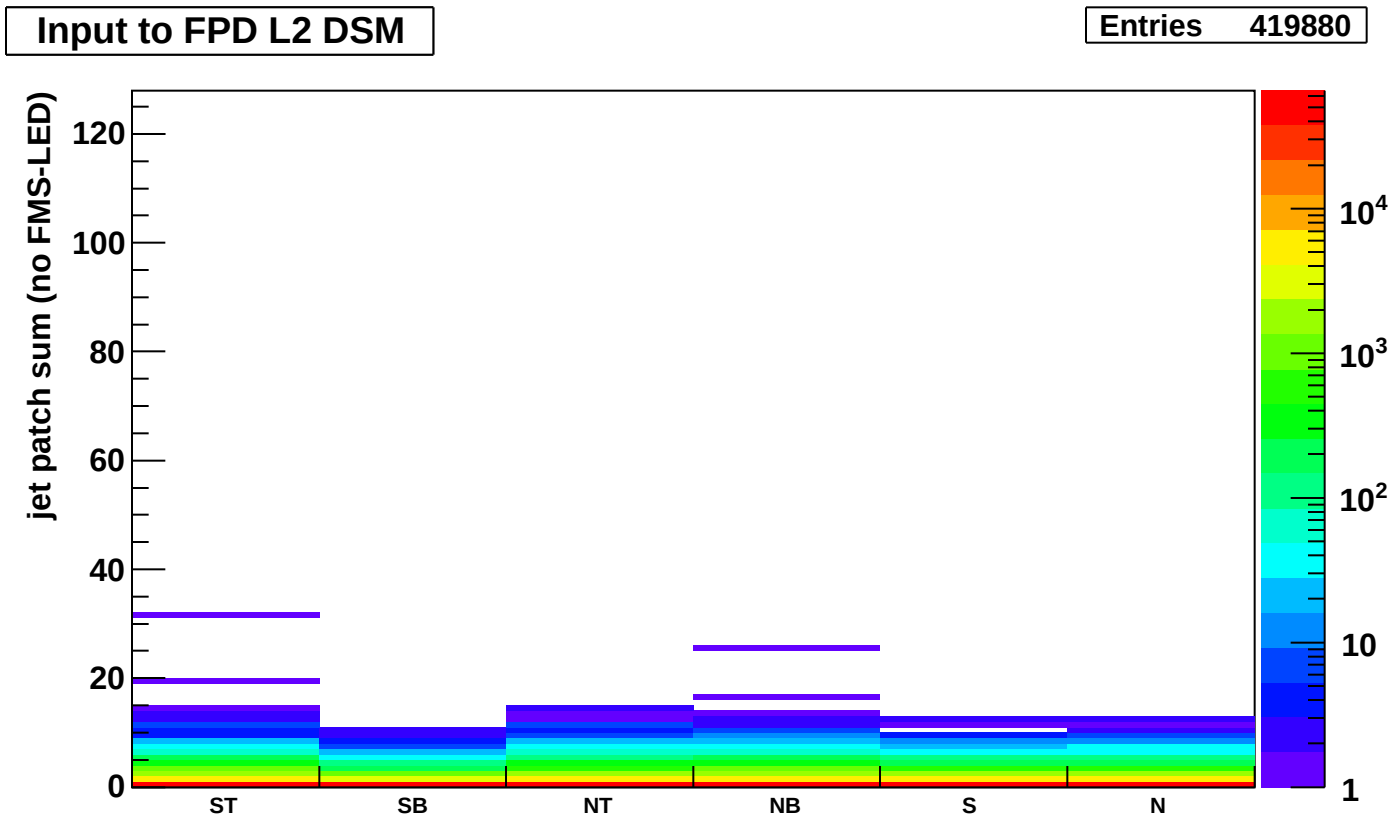

Input to FPD L2 DSM
Entries 0
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

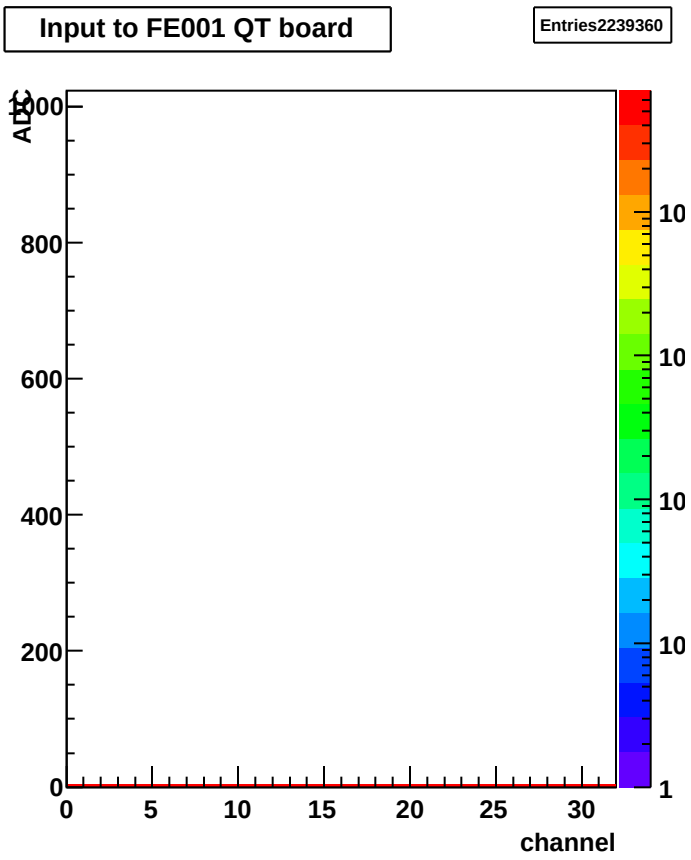

Input to FPD L2 DSM
Entries 209940
CL bits
1
3
1
219
35
50
69758
69944
69929
SMALL
LARGE-S
LARGE-N

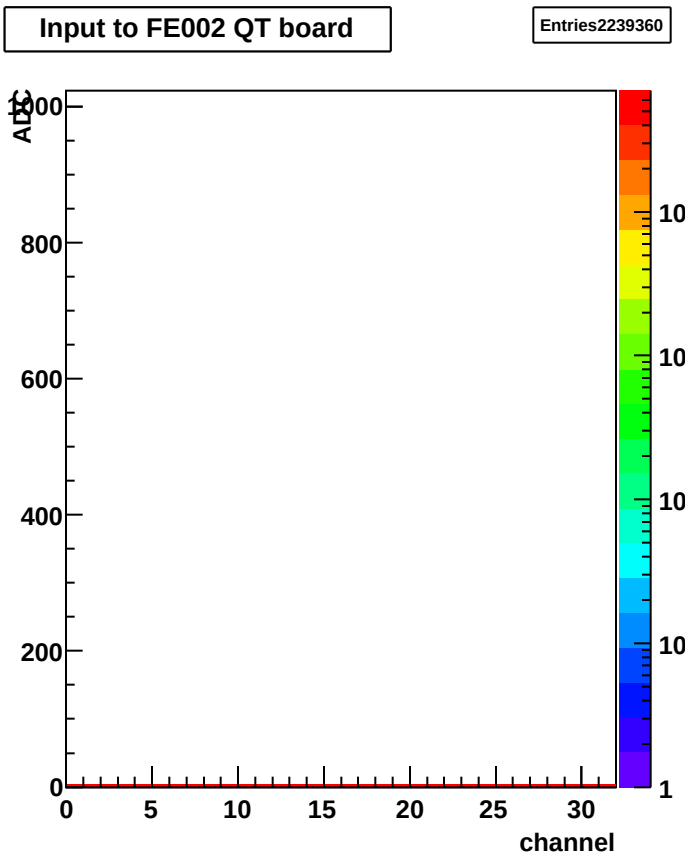

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

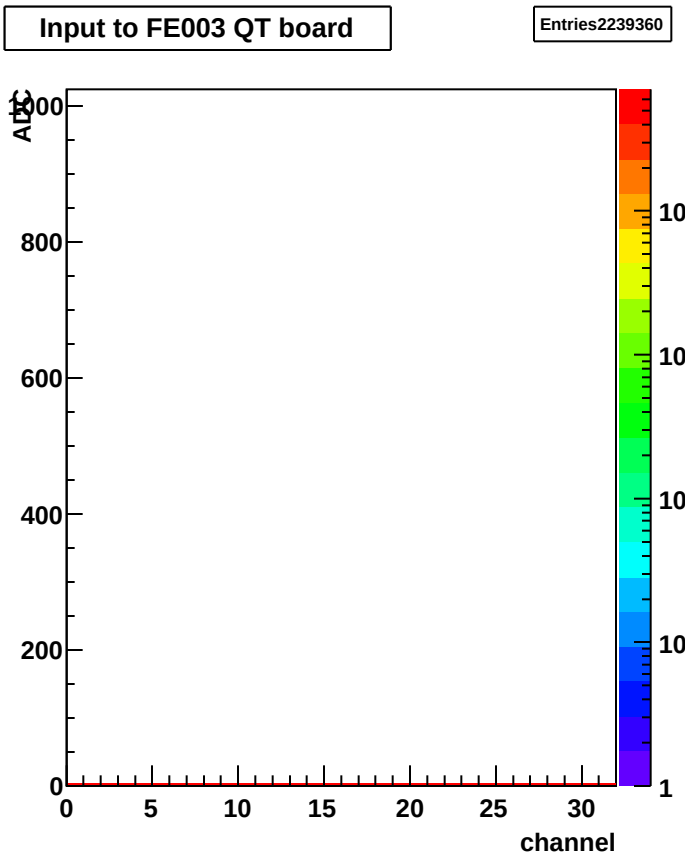

Input to FPD L2 DSM
Entries 209940
HT bits
302
7
4
1151
3160
63
60
65367
69910
69916
SMALL
LARGE-S
LARGE-N

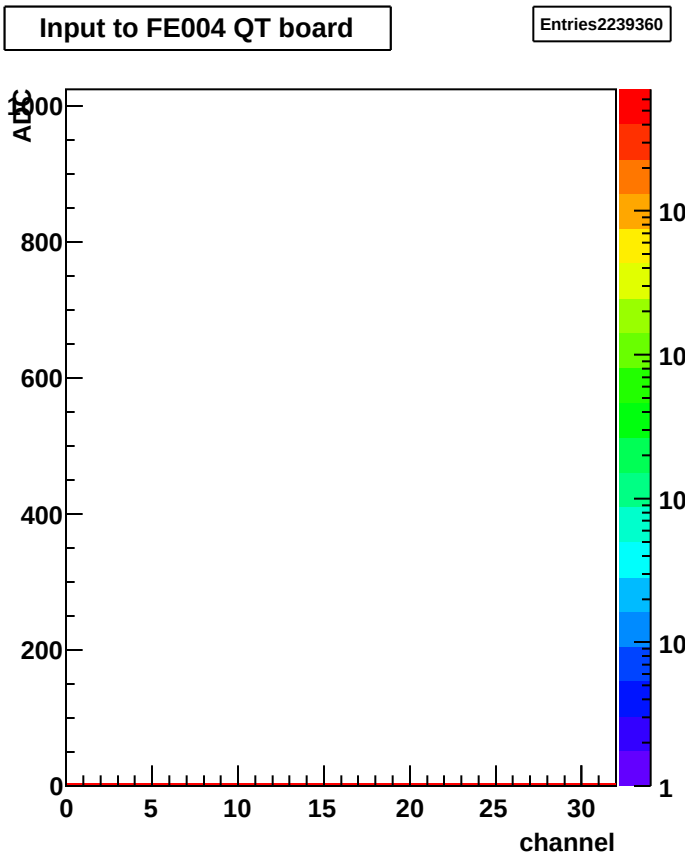

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

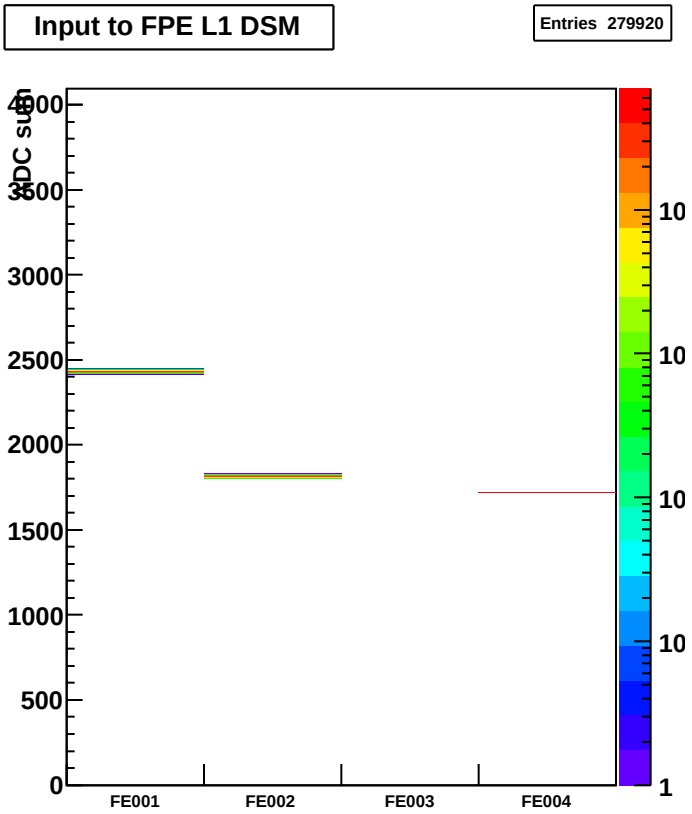

Input to FPD L2 DSM
Entries 419880
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

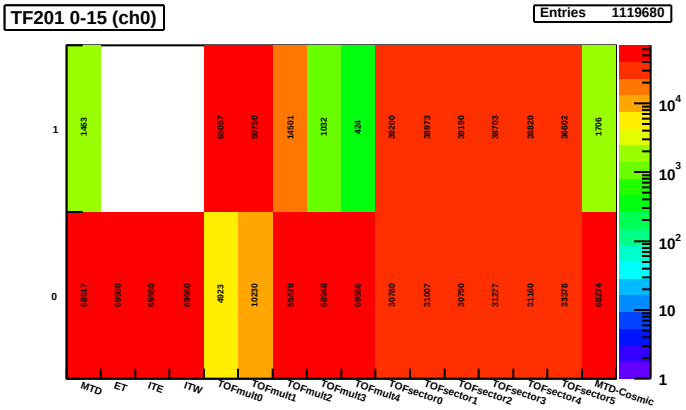

Input to FE001 QT board
Entries2239360
ADC
channel

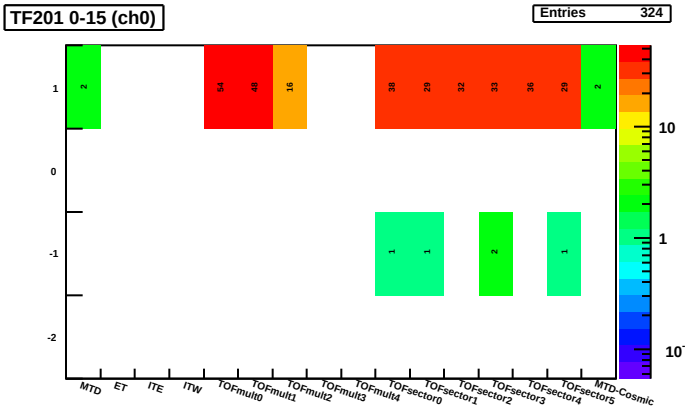

Input to FE002 QT board
Entries2239360
ADC
channel

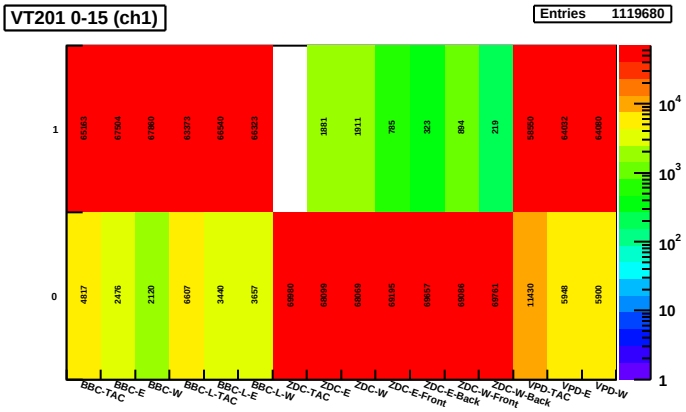

Input to FE003 QT board
Entries2239360
ADC
channel

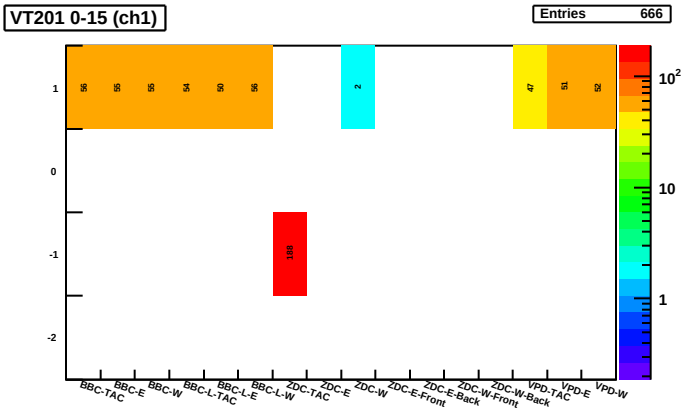

Input to FE004 QT board
Entries2239360
ADC
channel

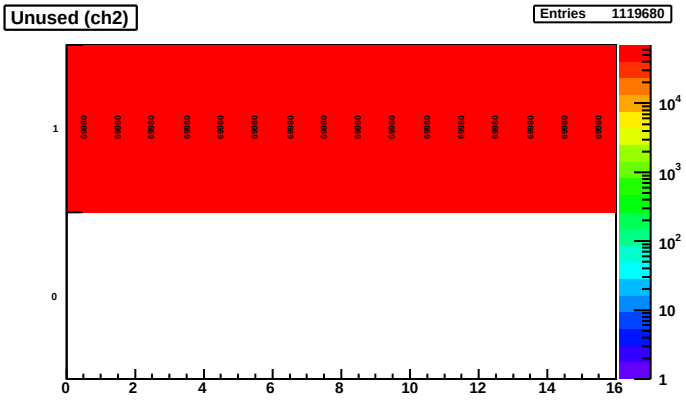

Input to FPE L1 DSM
Entries 279920
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

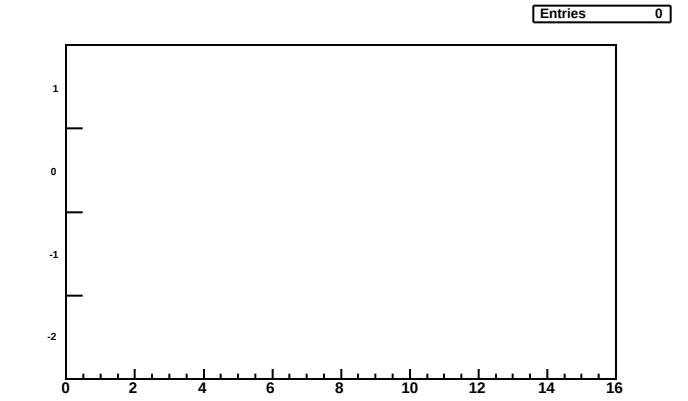

TF201 0-15 (ch0)
Entries 1119680
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

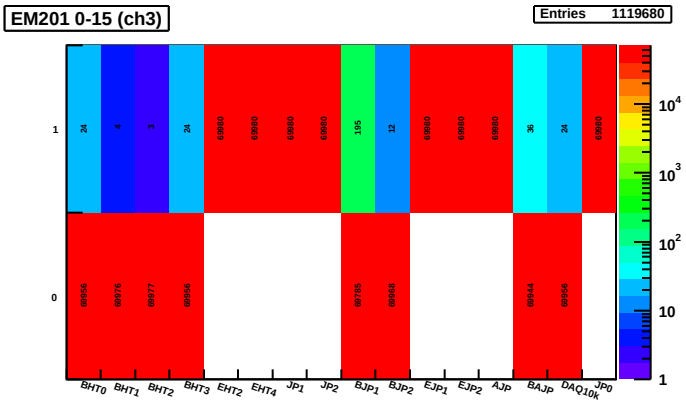

TF201 0-15 (ch0)
Entries 324
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

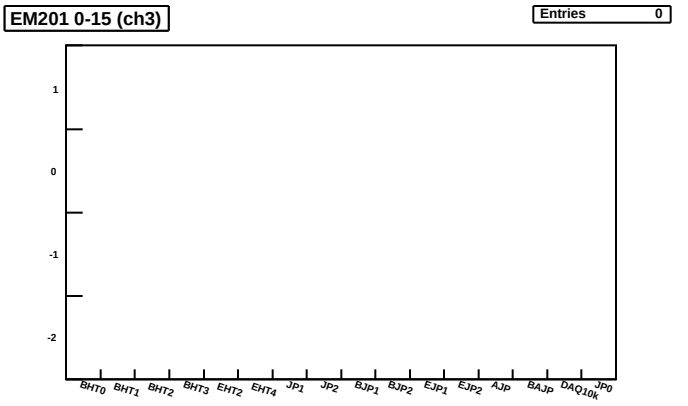

VT201 0-15 (ch1)
Entries 1119680
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 666
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 1119680


Entries 0


EM201 0-15 (ch3)
Entries 1119680
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0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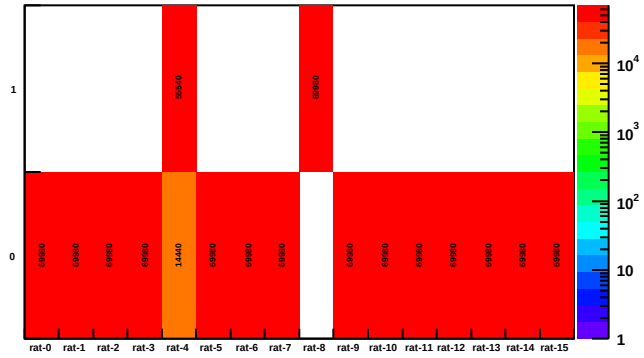

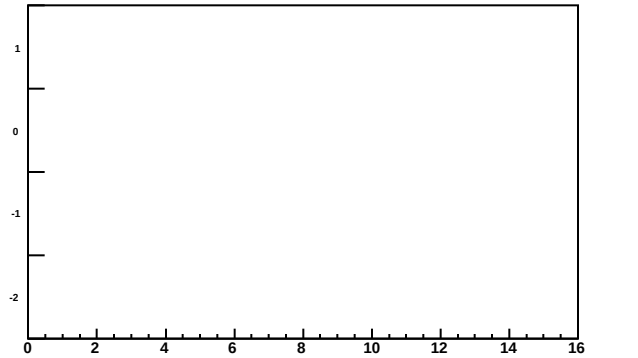

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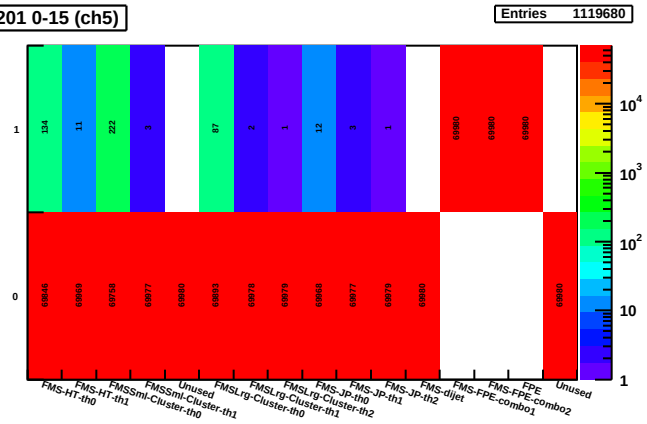

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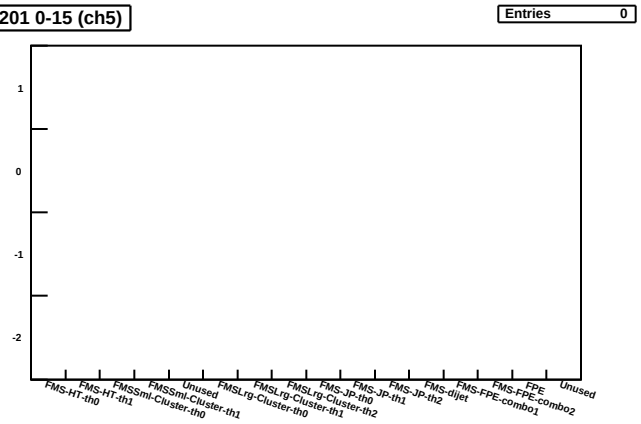

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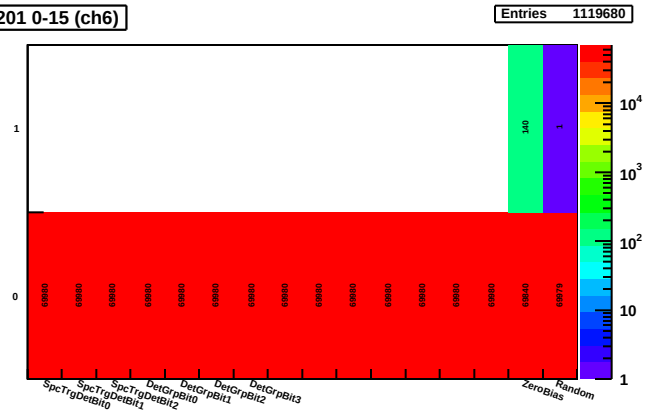

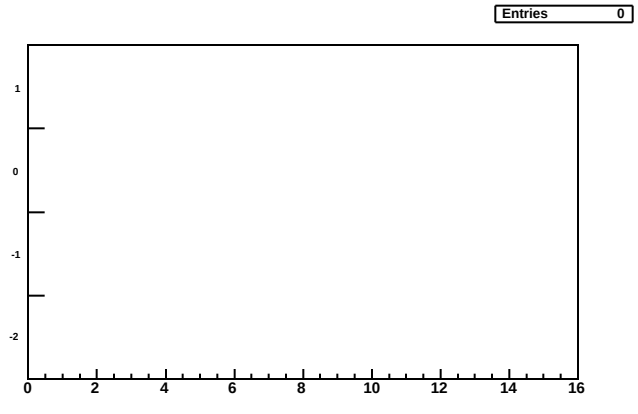
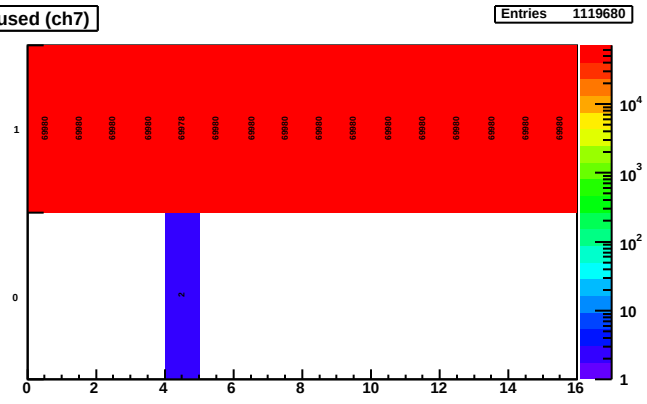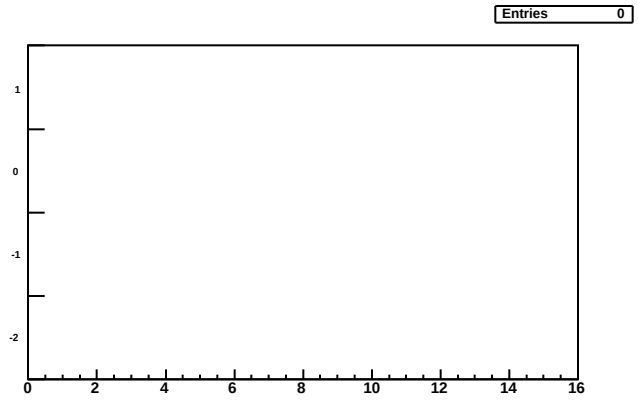
Unused (ch7)