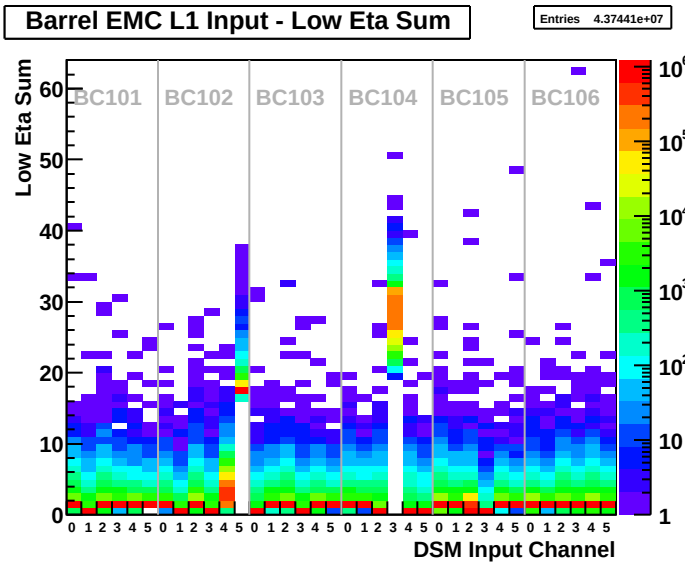
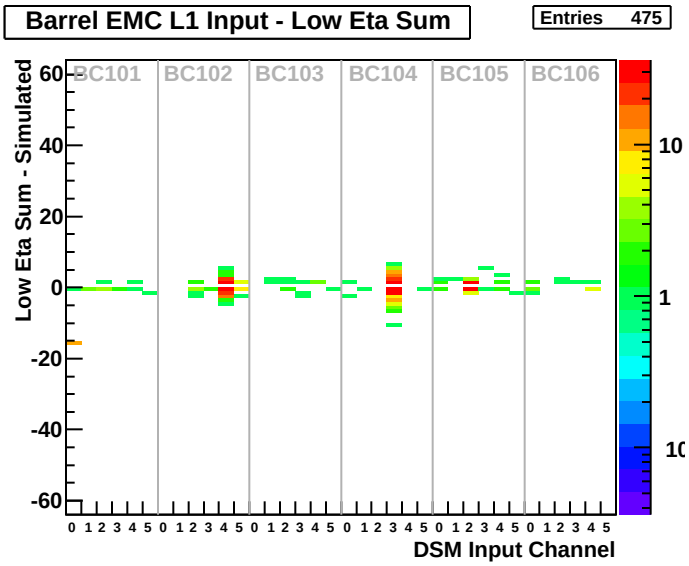
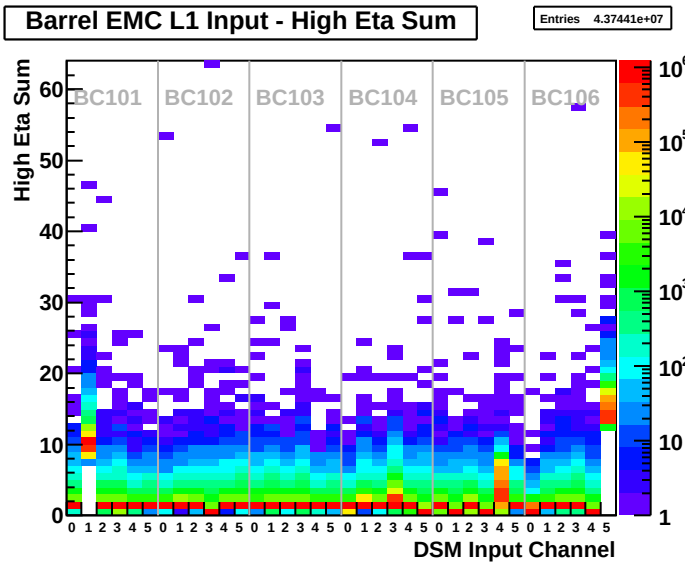
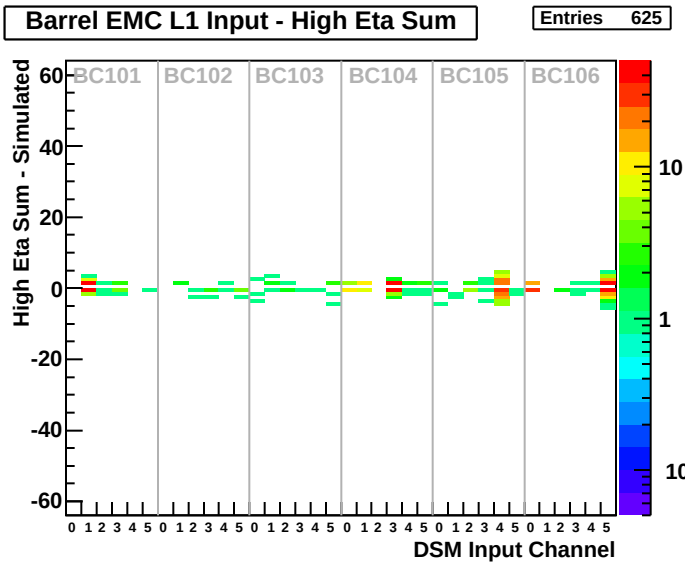
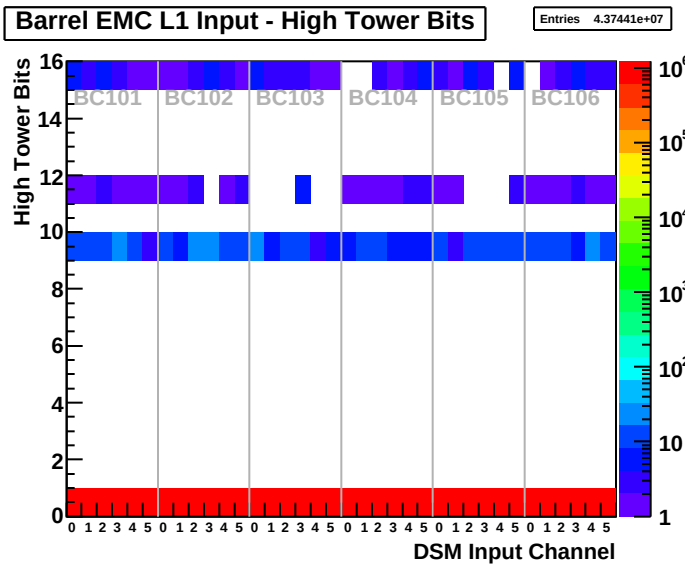
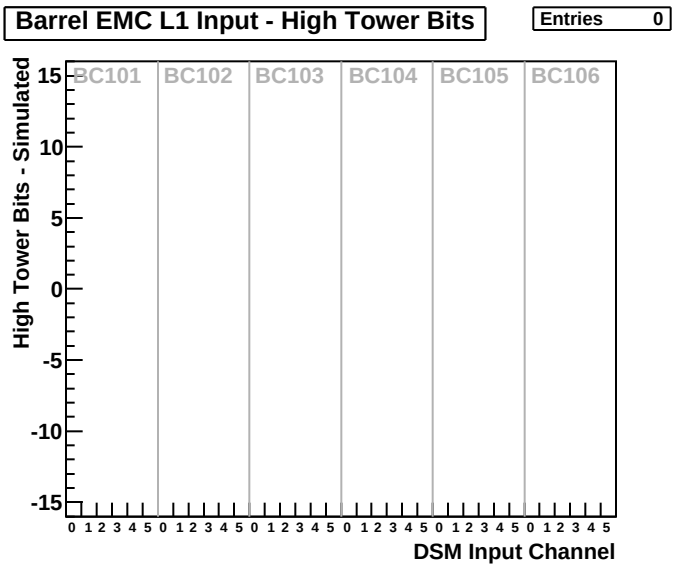

Barrel EMC L1 Input - Low Eta Sum
Entries 4.37441e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

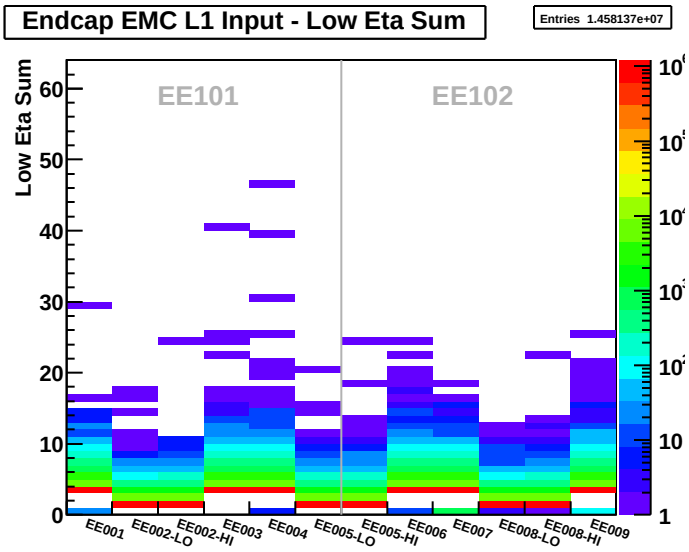

Barrel EMC L1 Input - Low Eta Sum
Entries 475
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

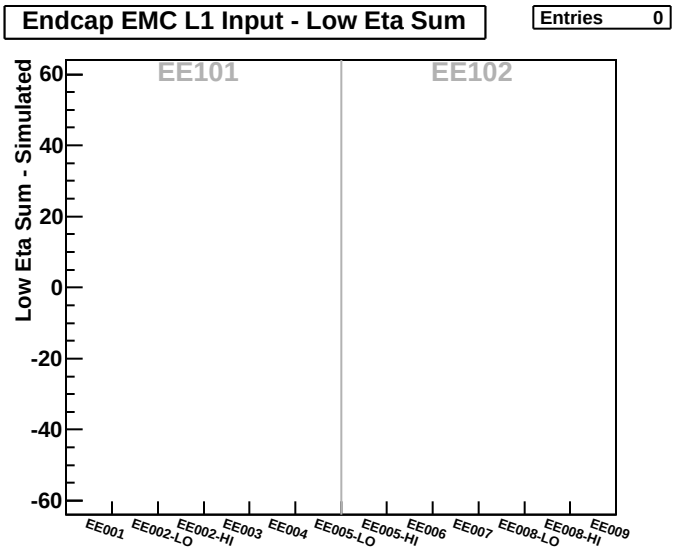

Barrel EMC L1 Input - High Eta Sum
Entries 4.37441e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

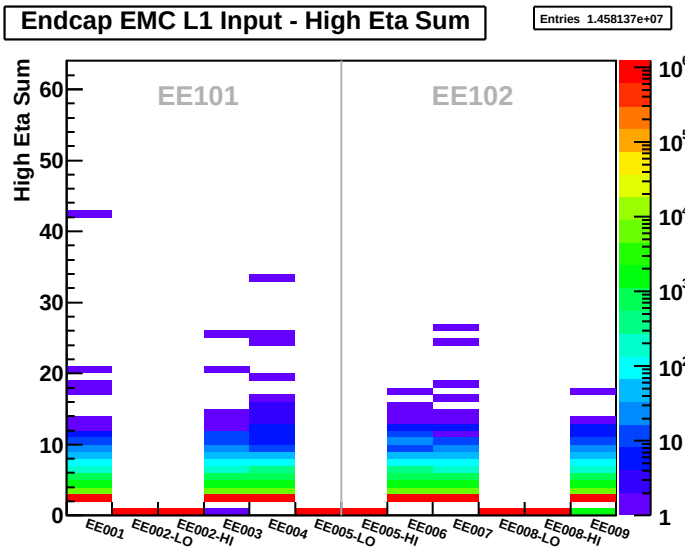

Barrel EMC L1 Input - High Eta Sum
Entries 625
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

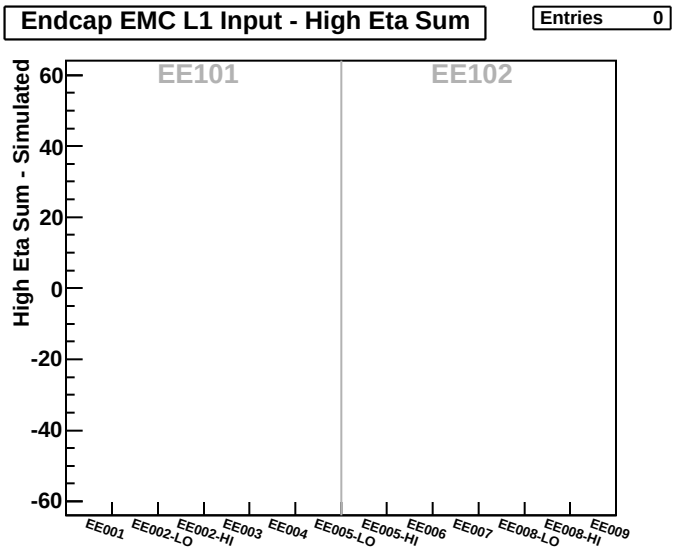

Barrel EMC L1 Input - High Tower Bits
Entries 4.37441e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

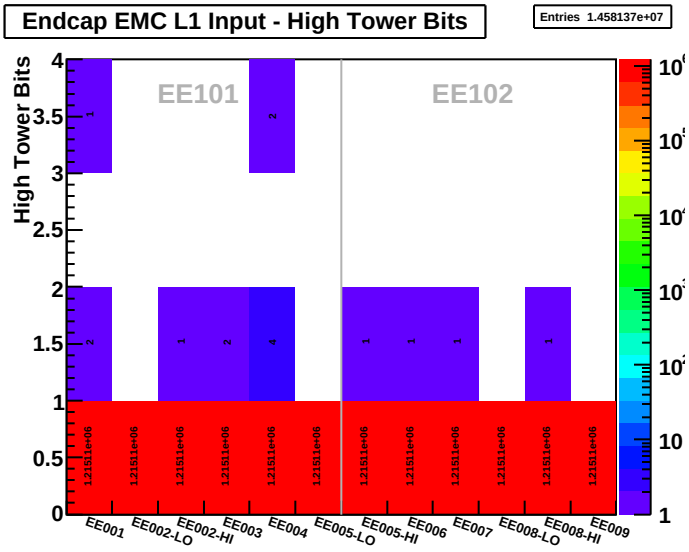

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

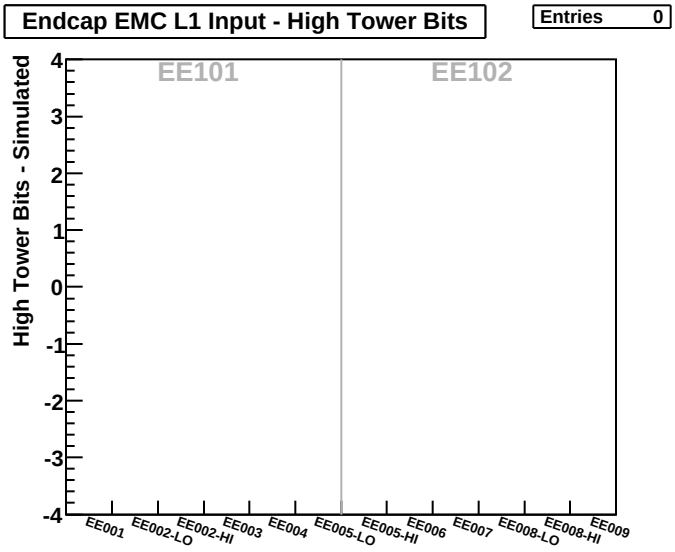

Endcap EMC L1 Input - Low Eta Sum
Entries 1.458137e+07
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

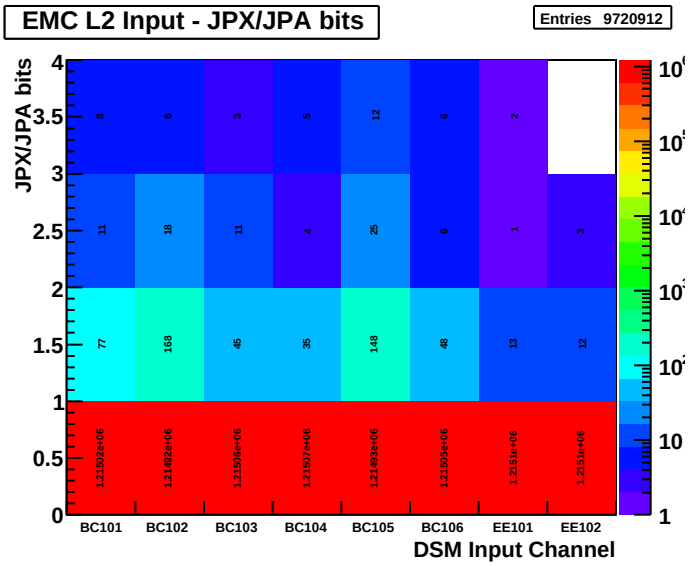

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

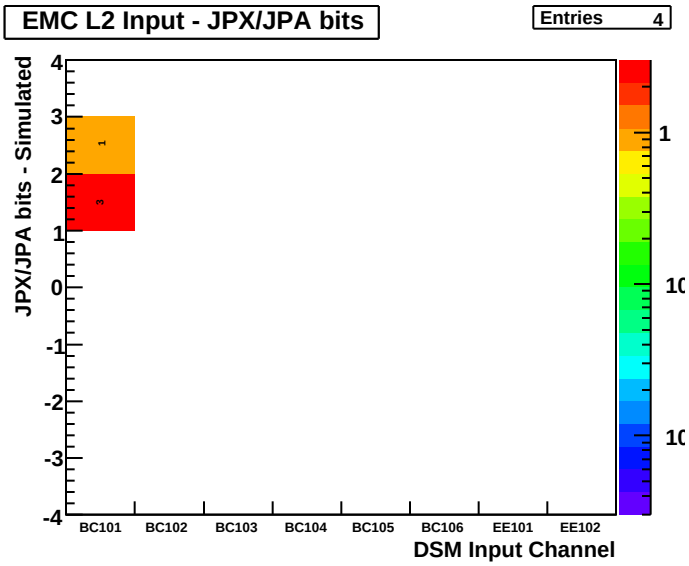

Endcap EMC L1 Input - High Eta Sum
Entries 1.458137e+07
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

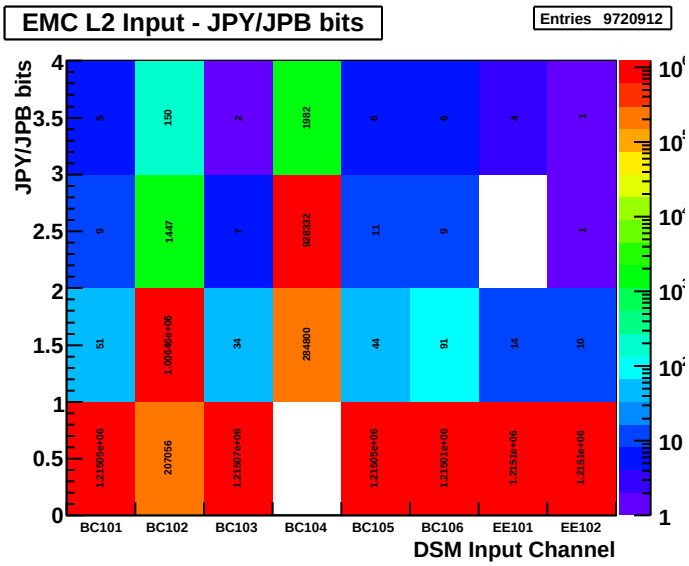

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

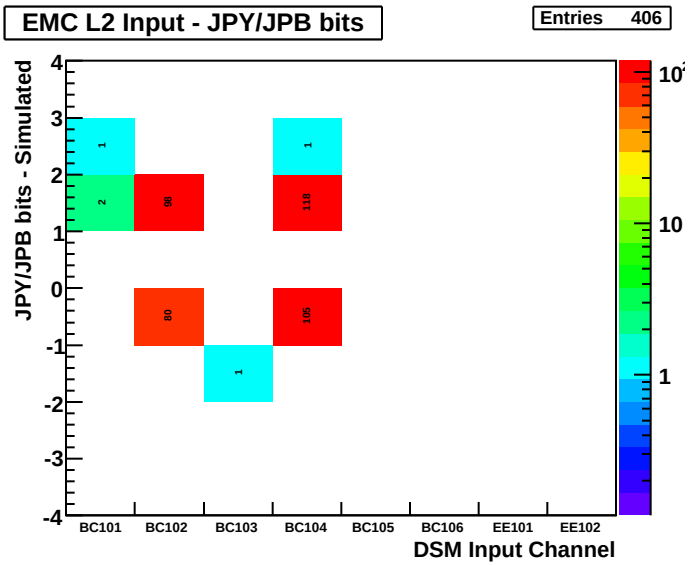

Endcap EMC L1 Input - High Tower Bits
Entries 1.458137e+07
High Tower Bits
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

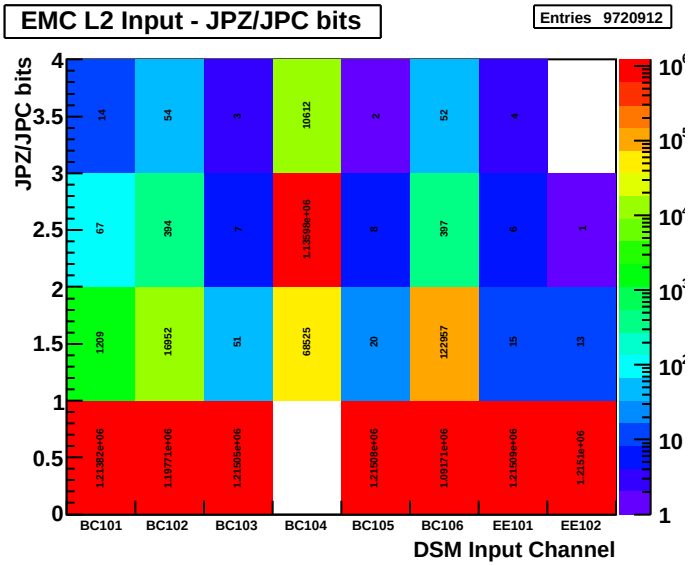

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

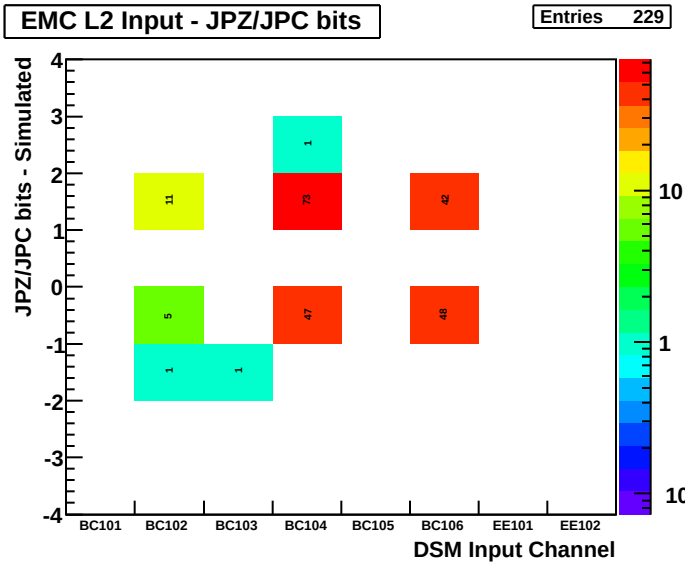

EMC L2 Input - JPX/JPA bits
Entries 9720912
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

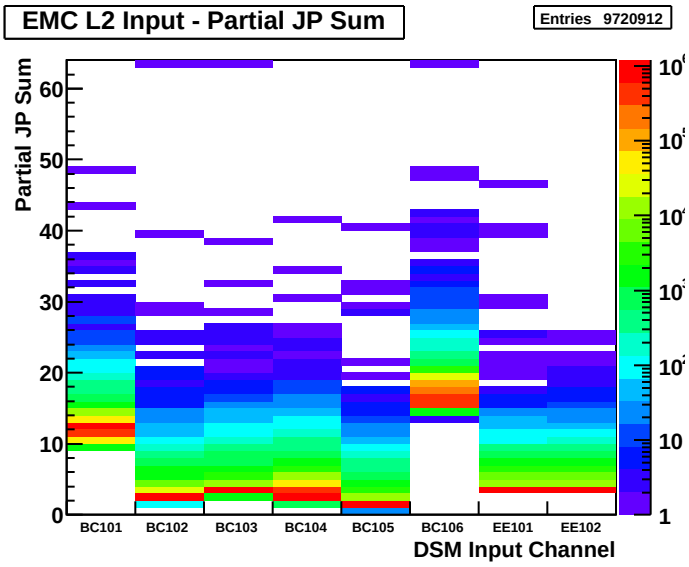

EMC L2 Input - JPX/JPA bits
Entries 4
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

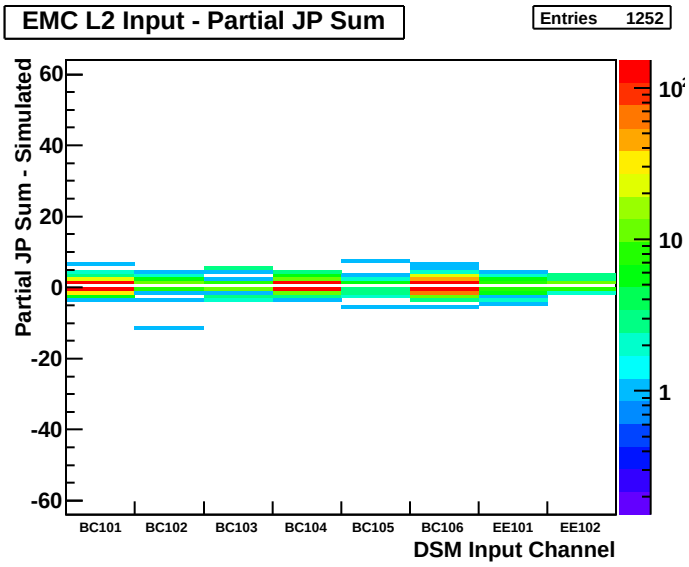

EMC L2 Input - JPY/JPB bits
Entries 9720912
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

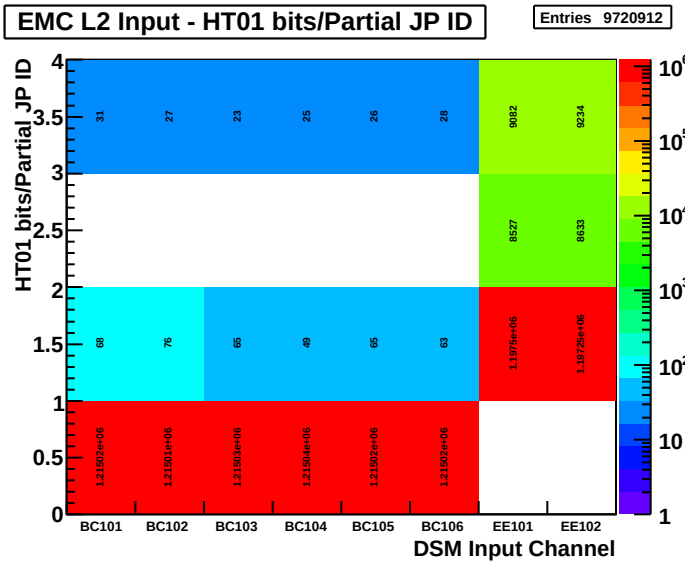

EMC L2 Input - JPY/JPB bits
Entries 406
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

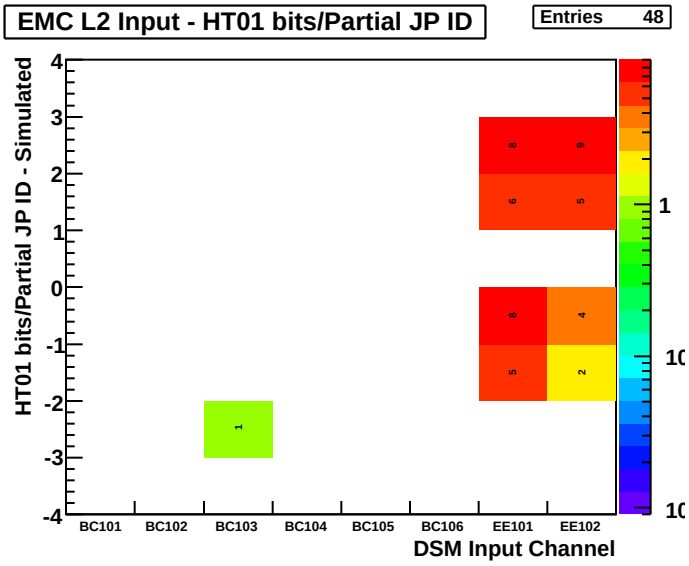

EMC L2 Input - JPZ/JPC bits
Entries 9720912
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

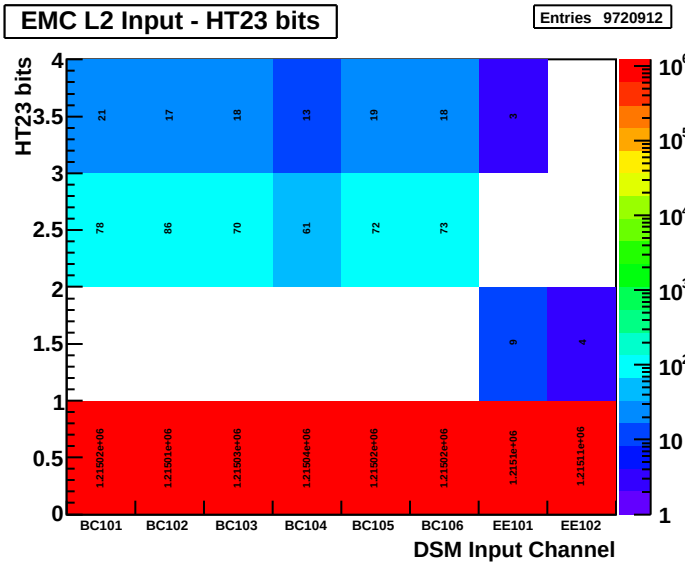

EMC L2 Input - JPZ/JPC bits
Entries 229
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

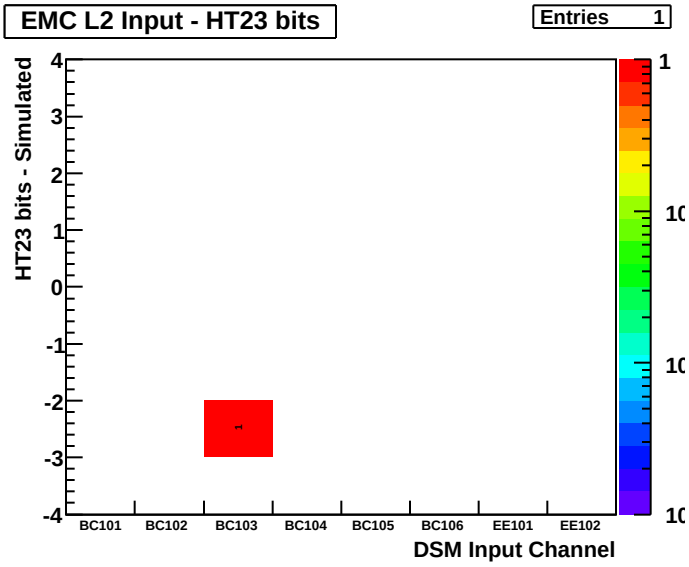

EMC L2 Input - Partial JP Sum
Entries 9720912
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

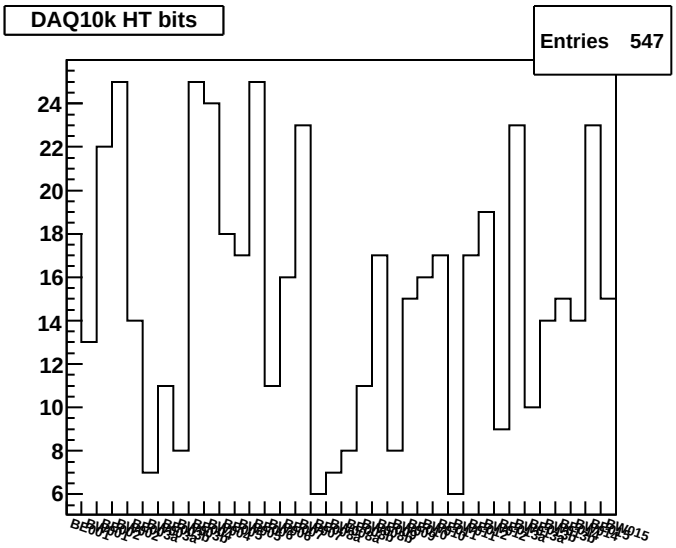

EMC L2 Input - Partial JP Sum
Entries 1252
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

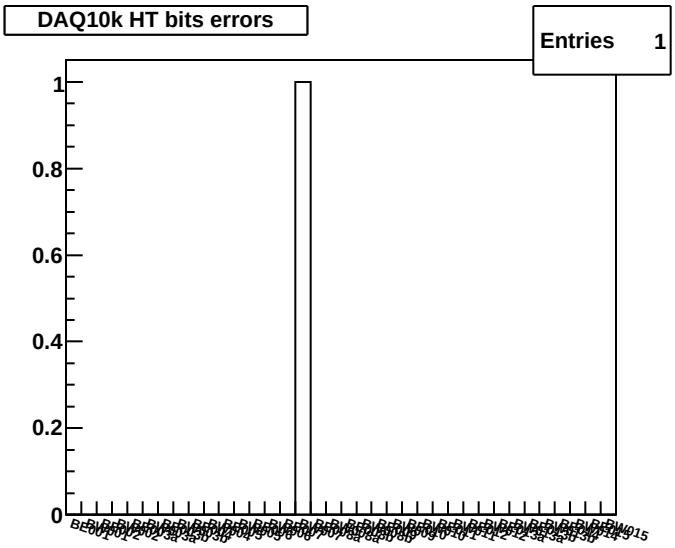

EMC L2 Input - HT01 bits/Partial JP ID
Entries 9720912
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

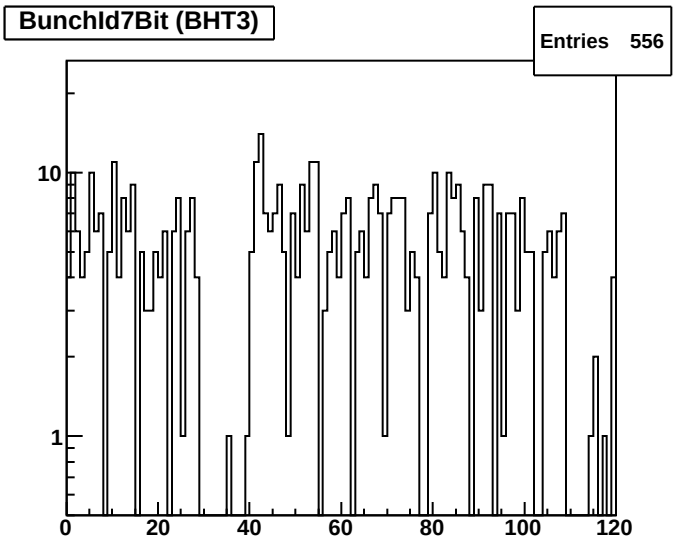

EMC L2 Input - HT01 bits/Partial JP ID
Entries 48
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

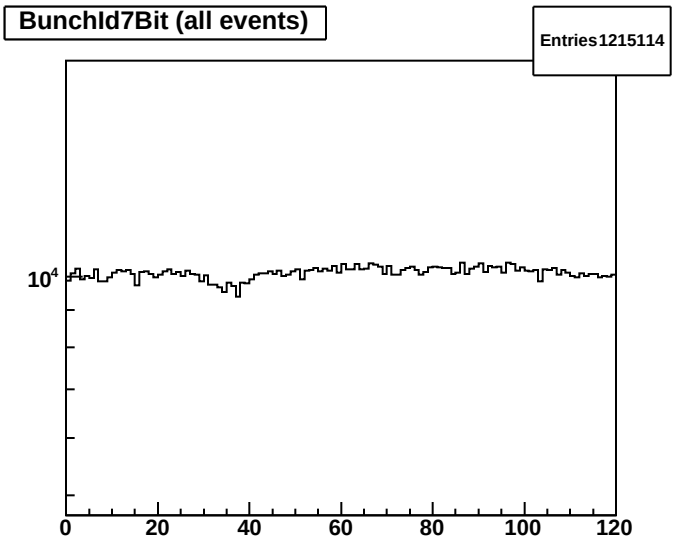

EMC L2 Input - HT23 bits
Entries 9720912
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

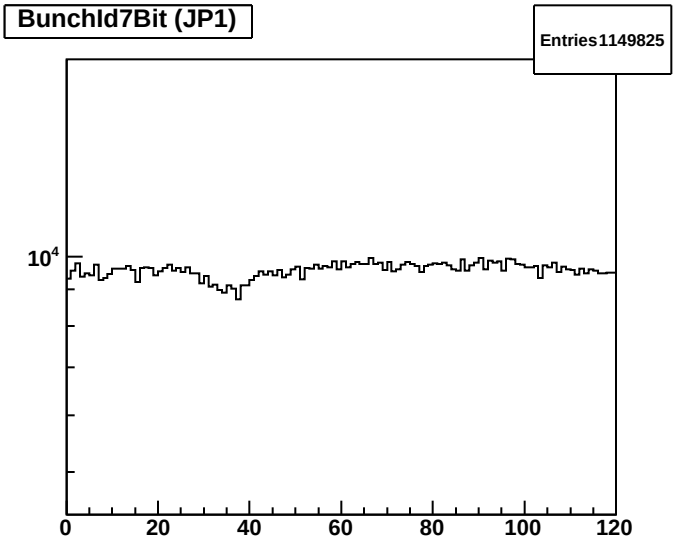

EMC L2 Input - HT23 bits
Entries 1
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

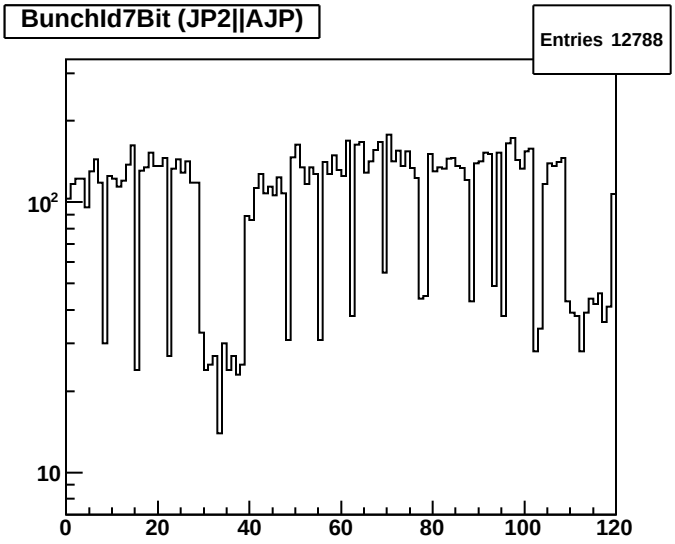

DAQ10k HT bits
Entries 547

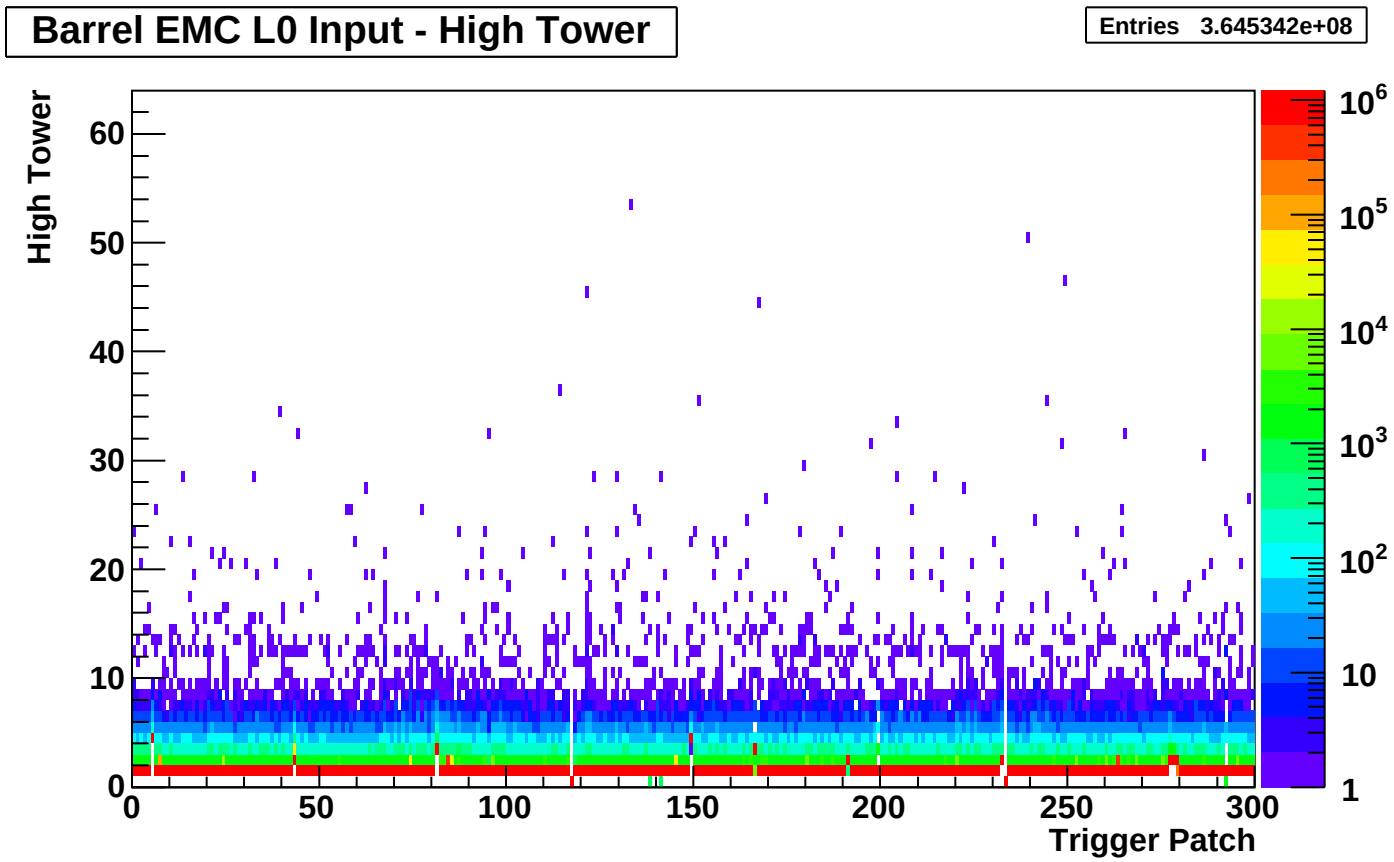

DAQ10k HT bits errors
Entries 1

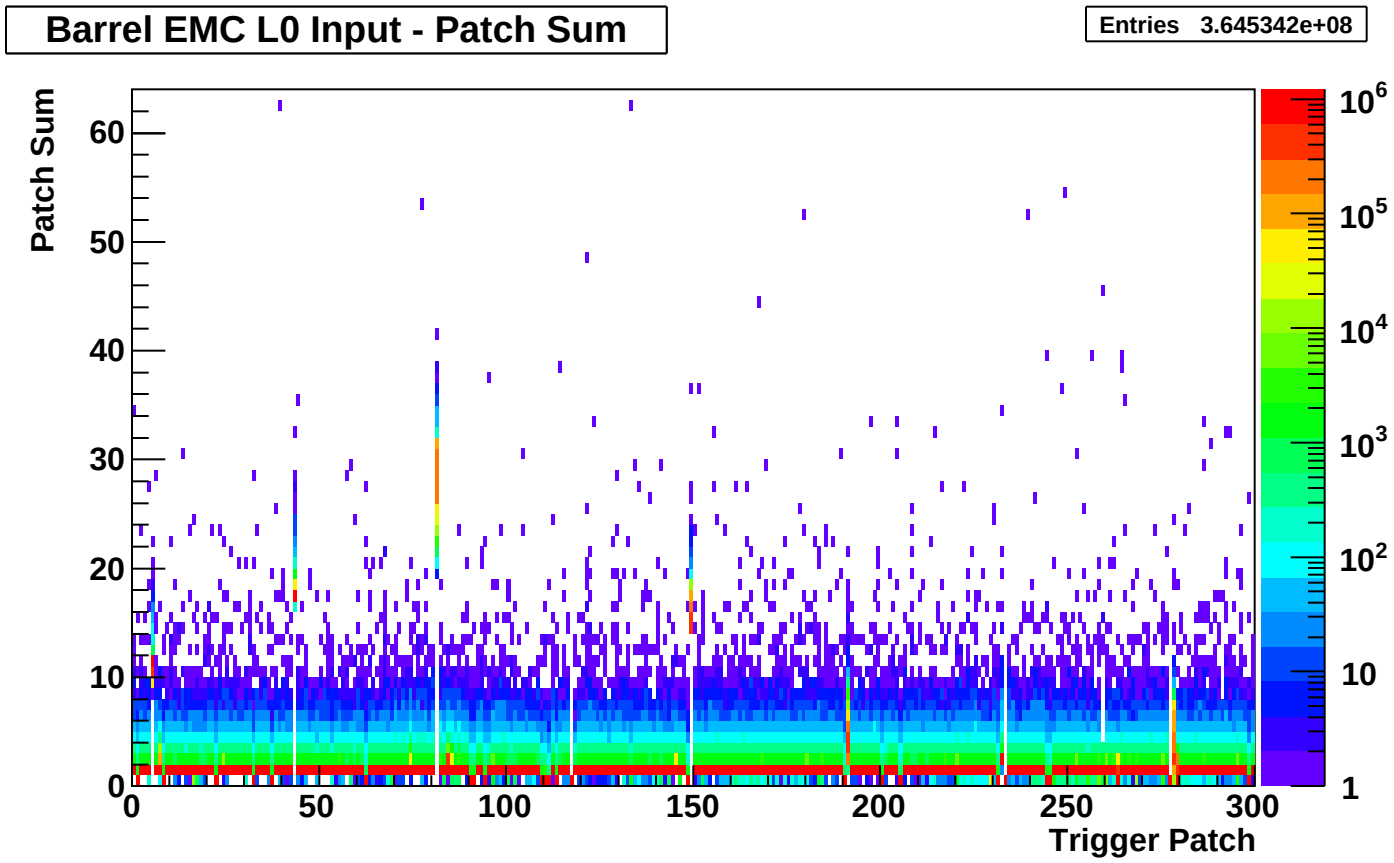

BunchId7Bit (BHT3)
Entries 556

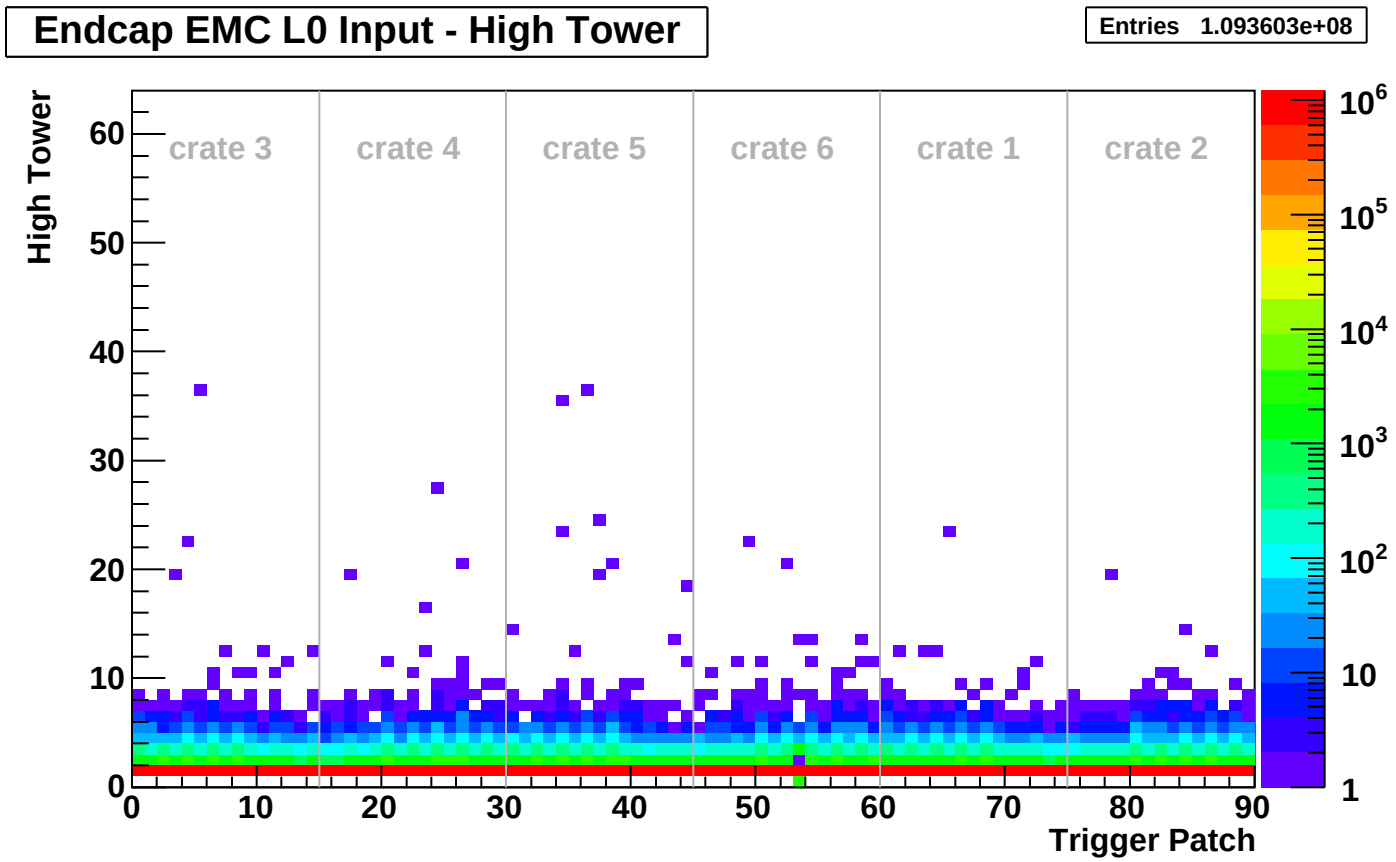

BunchId7Bit (all events)
Entries 1215114

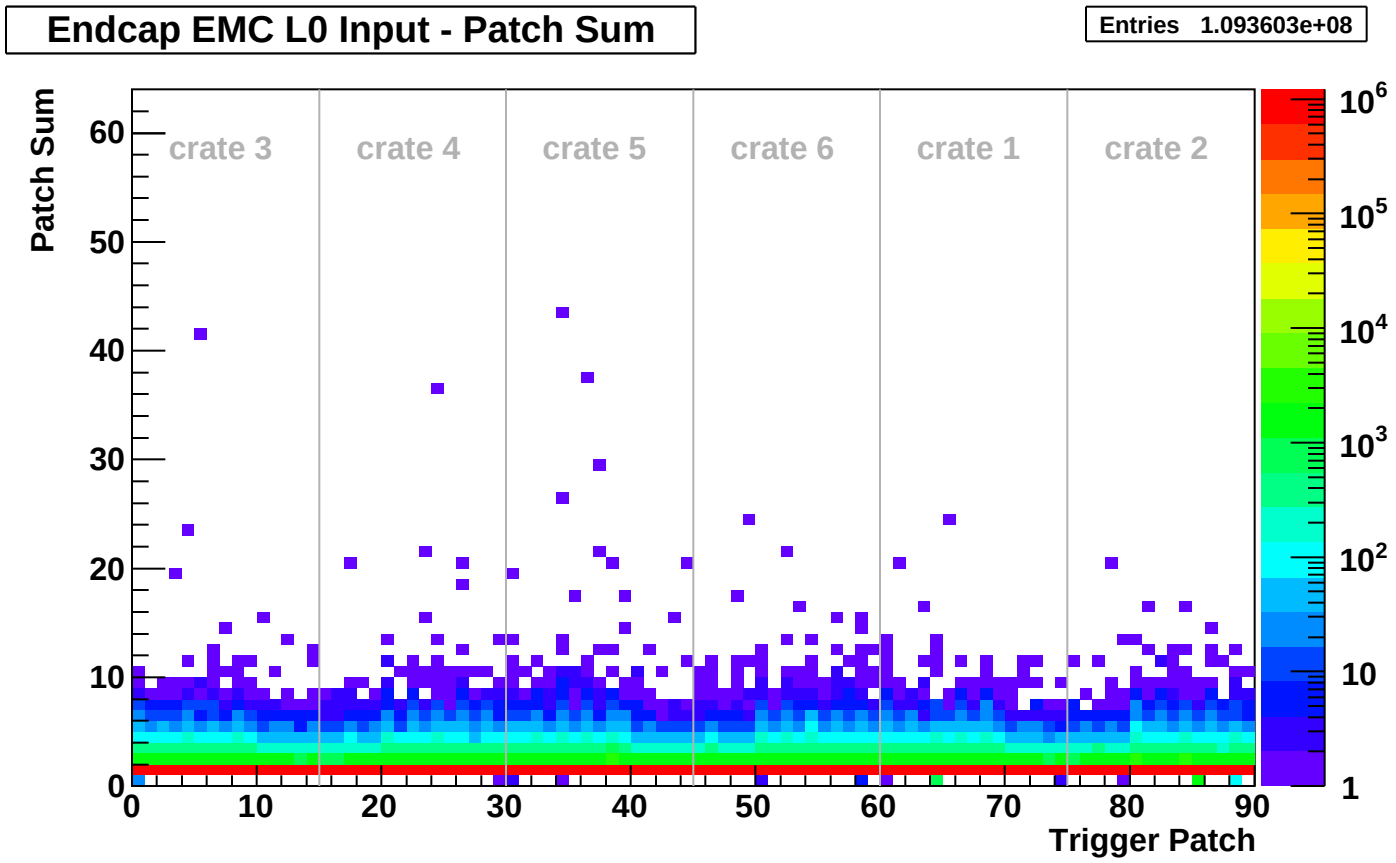

BunchId7Bit (JP1)
Entries 1149825

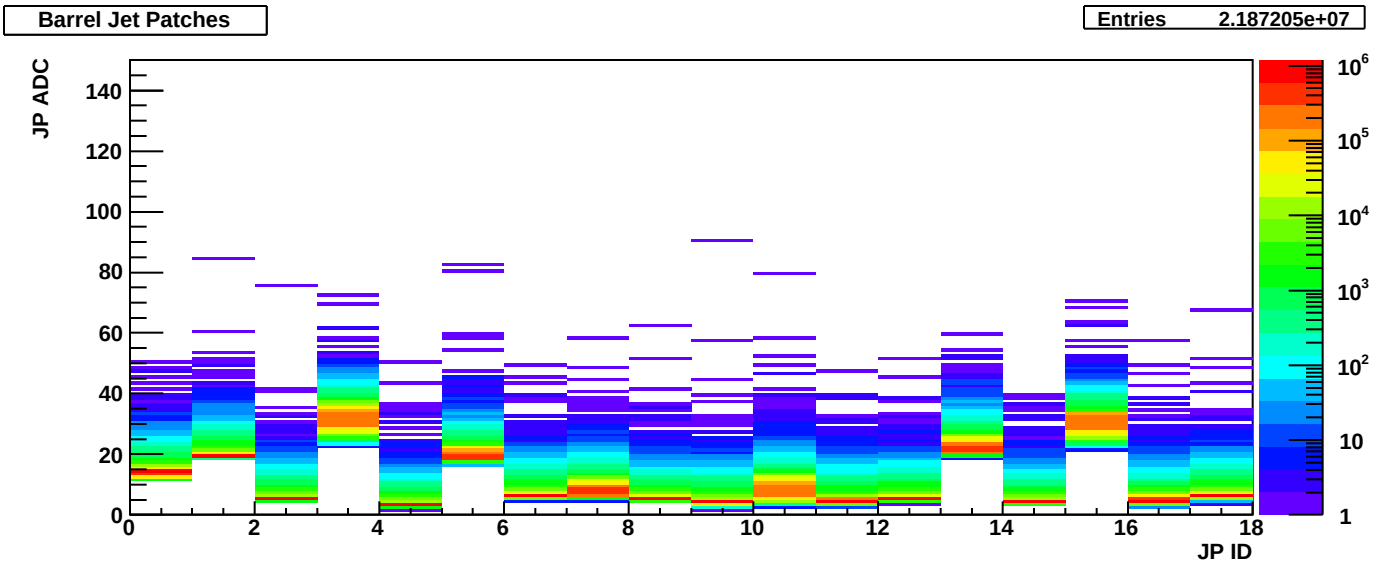

BunchId7Bit (JP2||AJP)
Entries 12788

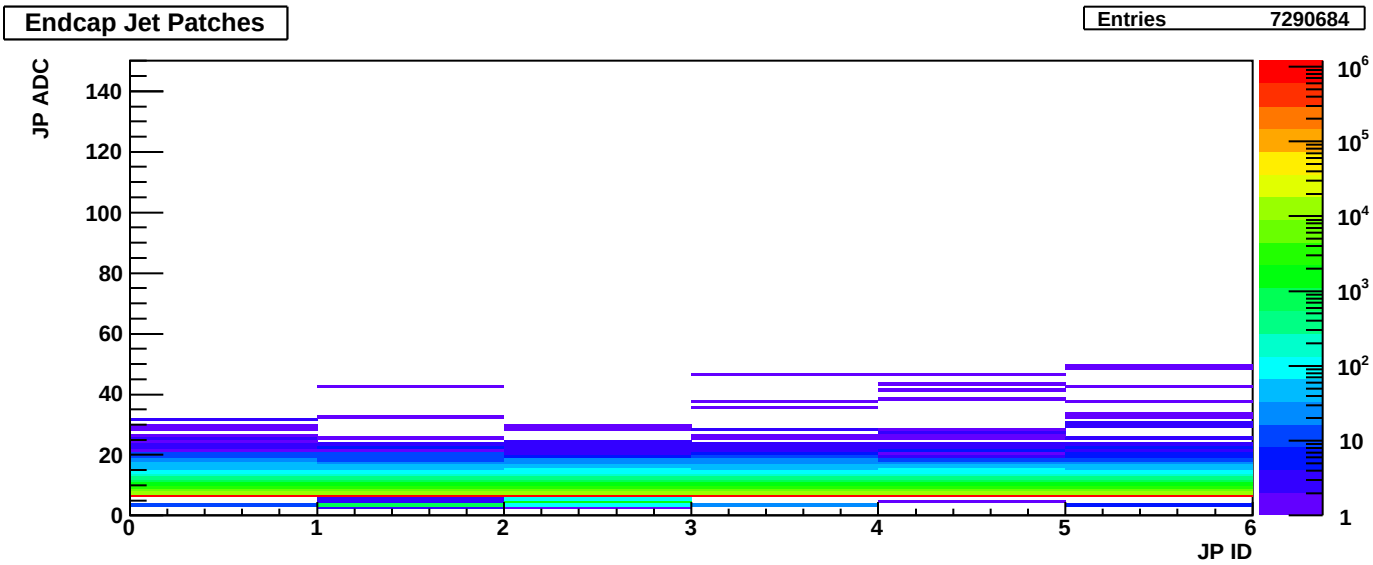

Barrel EMC L0 Input - High Tower
Entries 3.645342e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

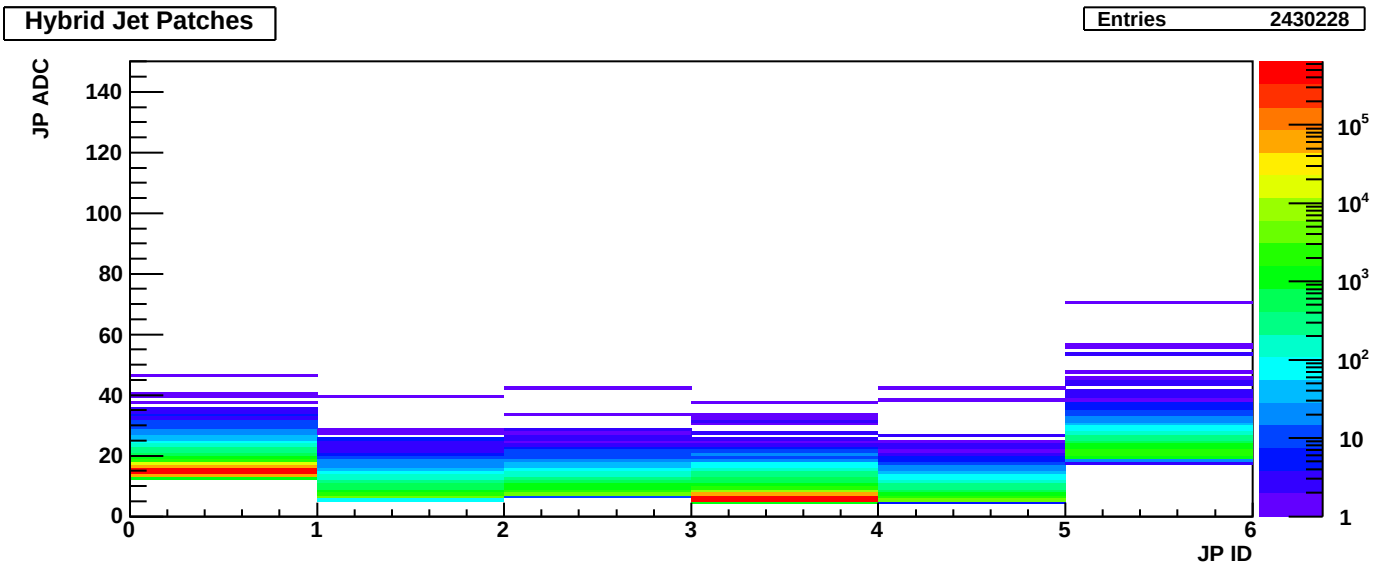

Barrel EMC L0 Input - Patch Sum
Entries 3.645342e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

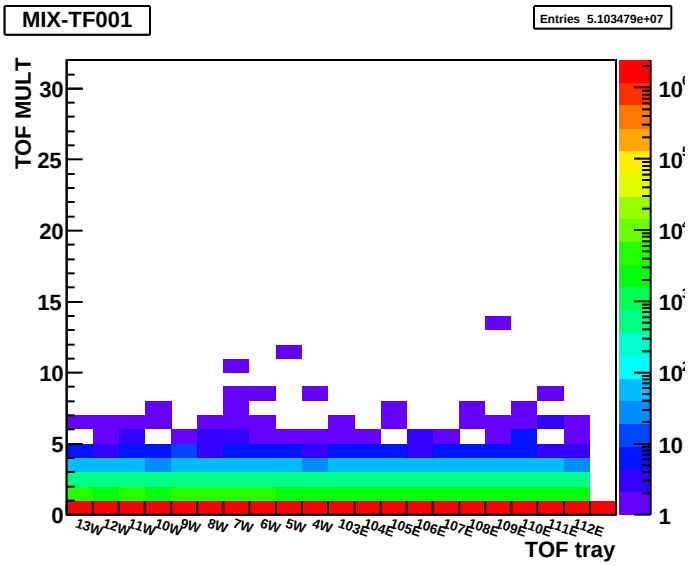

Endcap EMC L0 Input - High Tower
Entries 1.093603e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

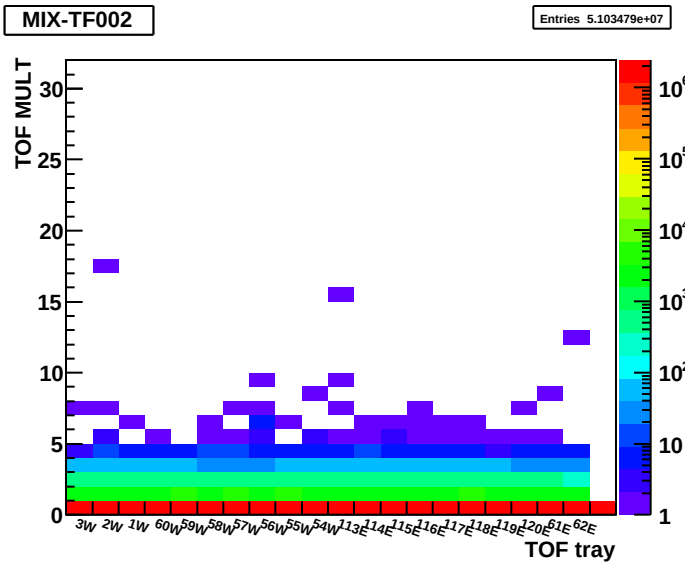

Endcap EMC L0 Input - Patch Sum
Entries 1.093603e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

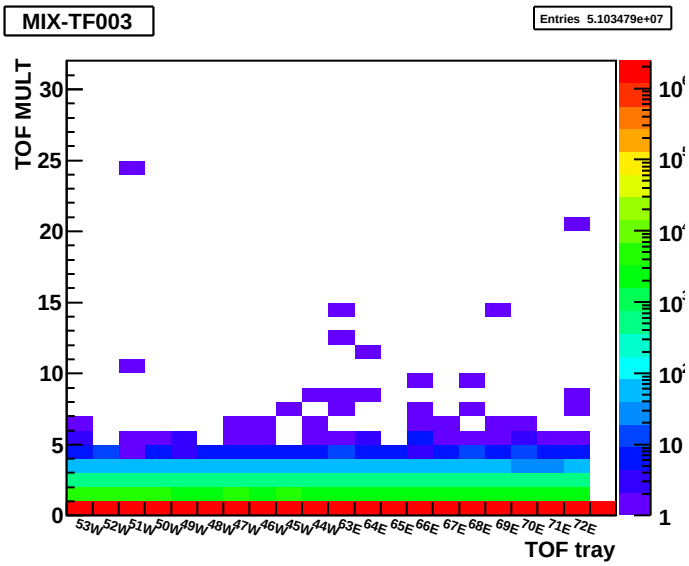

Barrel Jet Patches
Entries 2.187205e+07
JP ADC
JP ID

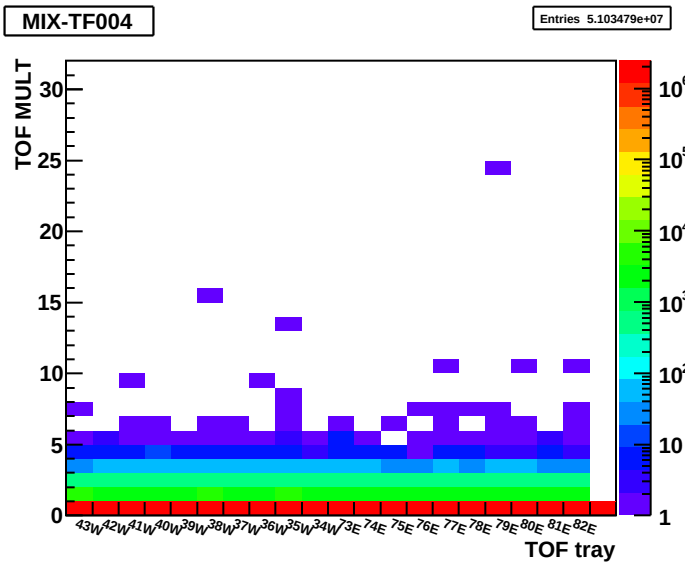

Endcap Jet Patches
Entries 7290684
JP ADC
JP ID

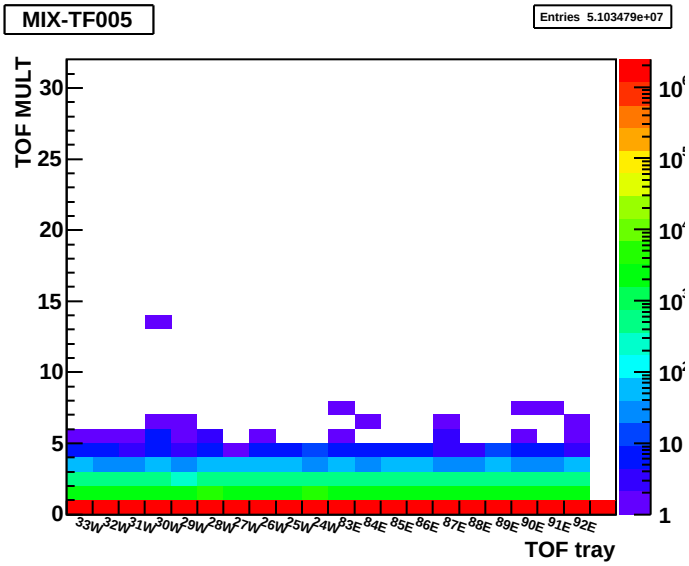

Hybrid Jet Patches
Entries 2430228
JP ADC
JP ID

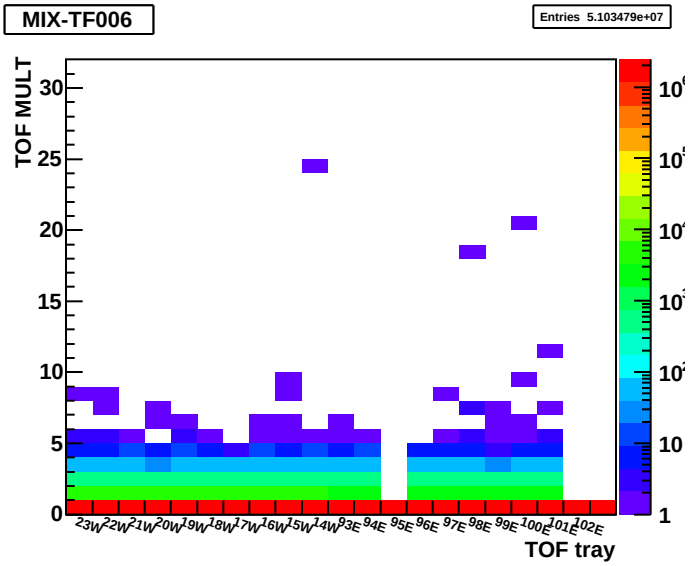

MIX-TF001
Entries 5.103479e+07
TOF MULT
TOF tray

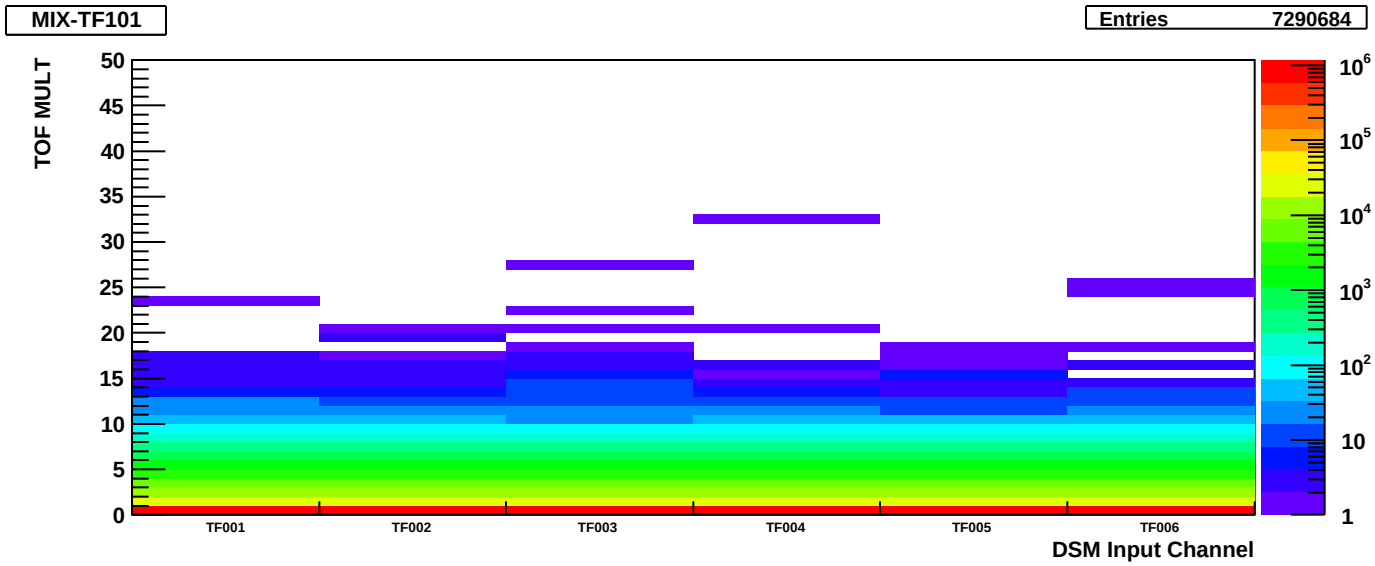

MIX-TF002
Entries 5.103479e+07
TOF MULT
TOF tray

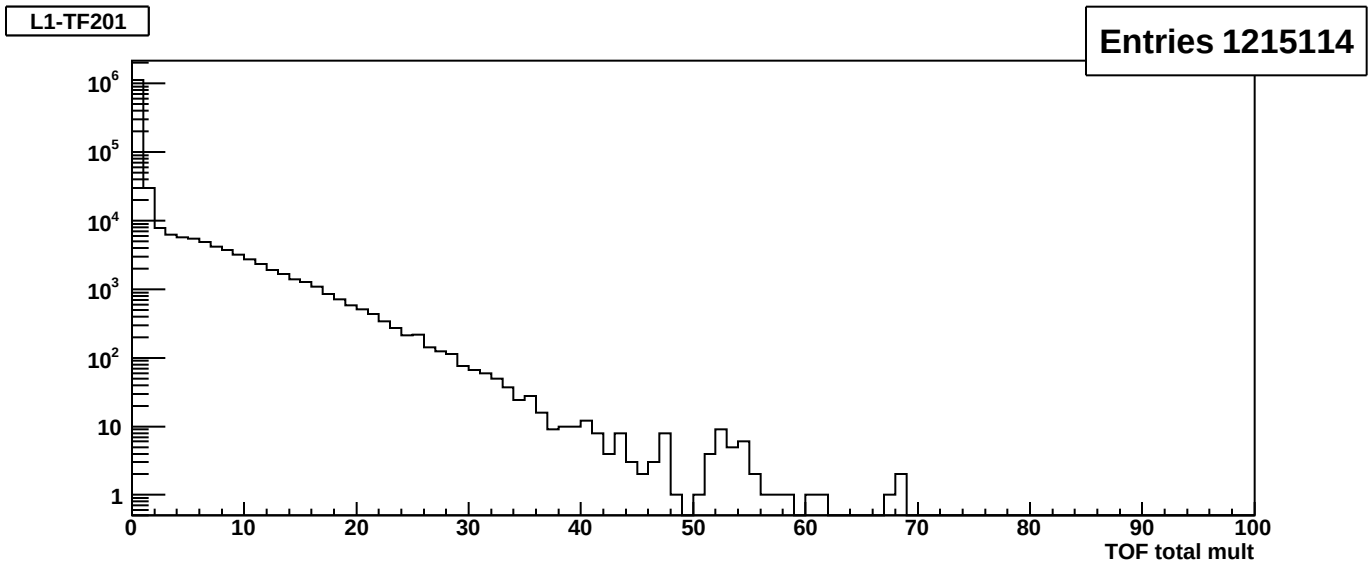

MIX-TF003
Entries 5.103479e+07
TOF MULT
TOF tray

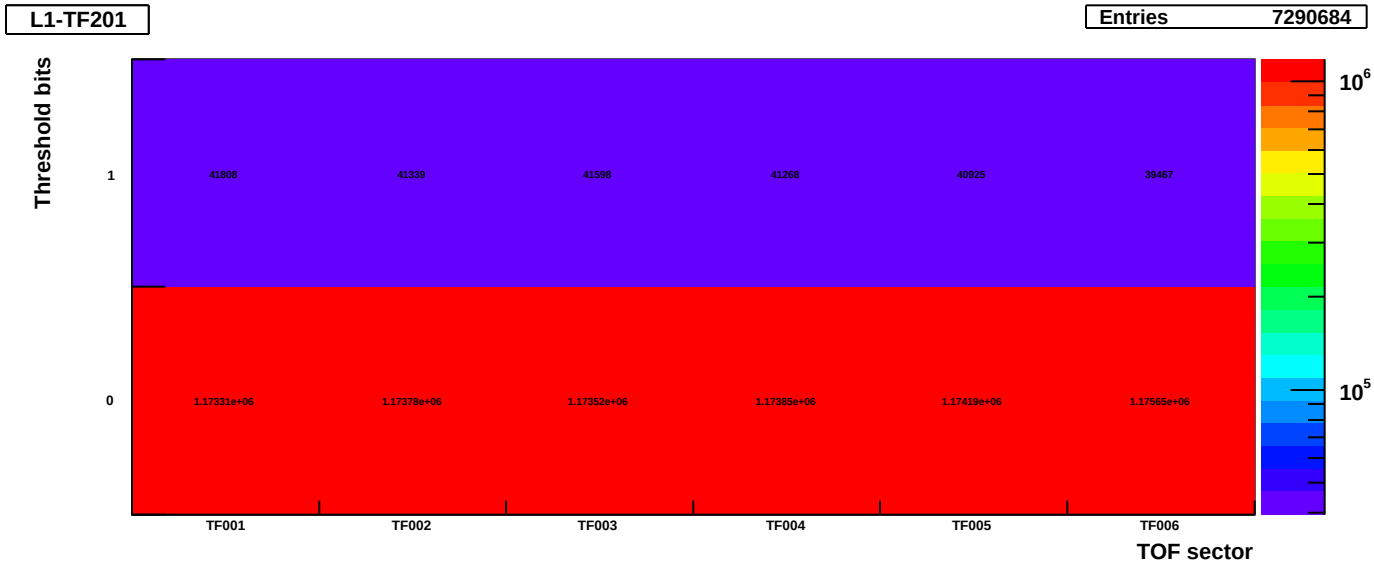

MIX-TF004
Entries 5.103479e+07
TOF MULT
TOF tray

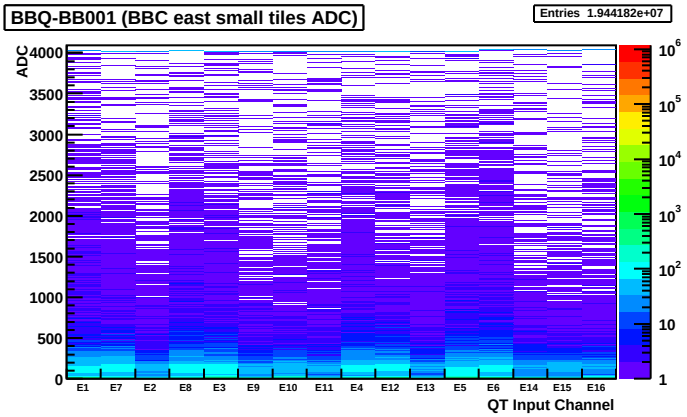

MIX-TF005
Entries 5.103479e+07
TOF MULT
TOF tray

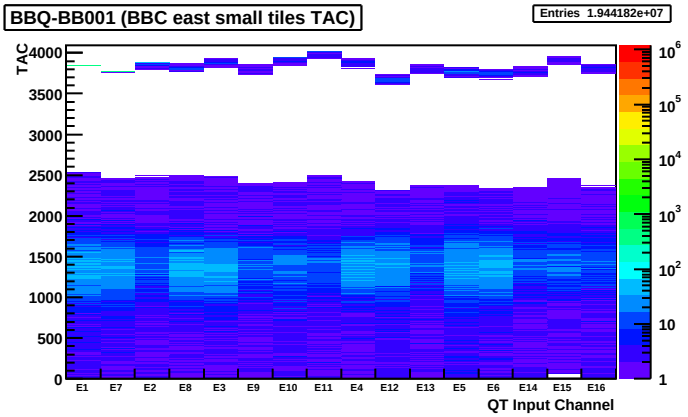

MIX-TF006
Entries 5.103479e+07
TOF MULT
TOF tray

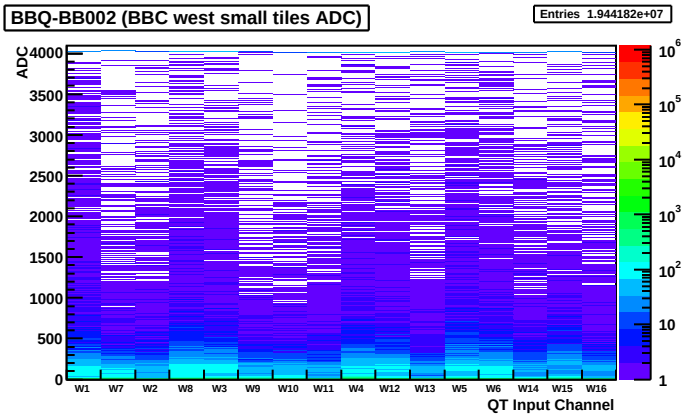

MIX-TF101
Entries 7290684
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

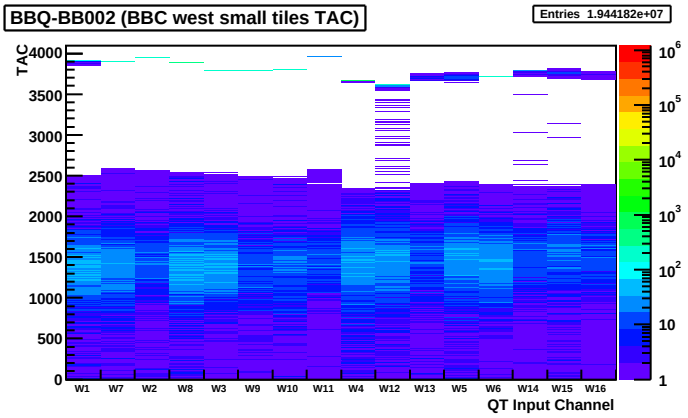

L1-TF201
Entries 1215114
TOF total mult

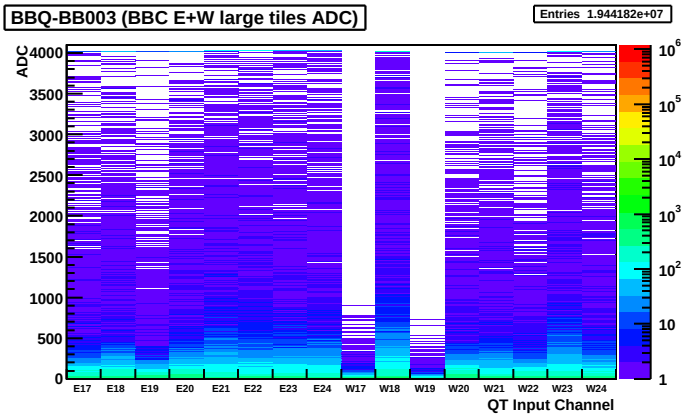

L1-TF201
Entries 7290684
Threshold bits
41808
41339
41598
41268
40925
39467
1.17331e+06
1.17378e+06
1.17352e+06
1.17385e+06
1.17419e+06
1.17565e+06
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

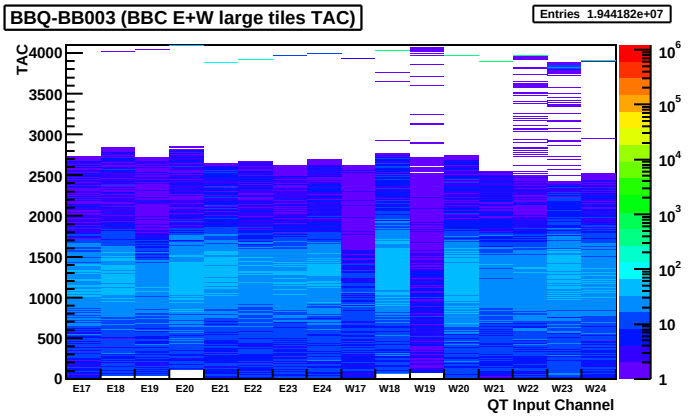

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.944182e+07
ADC
QT Input Channel

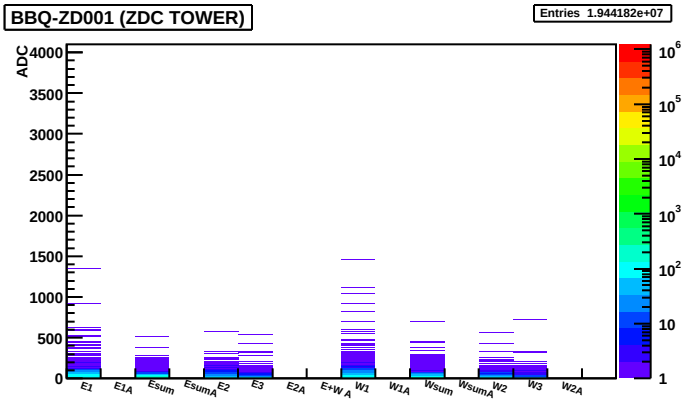

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.944182e+07
TAC
QT Input Channel

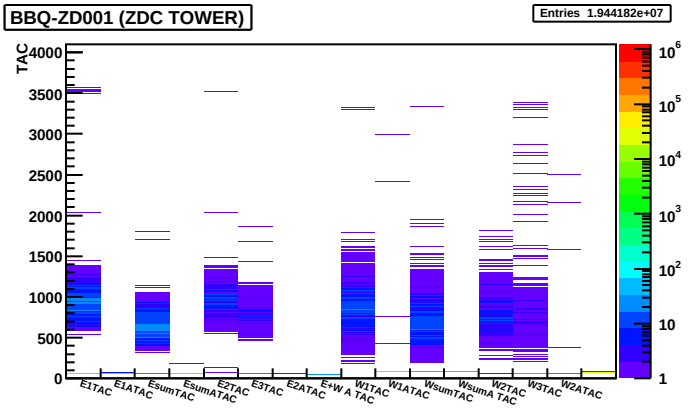

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.944182e+07
ADC
QT Input Channel

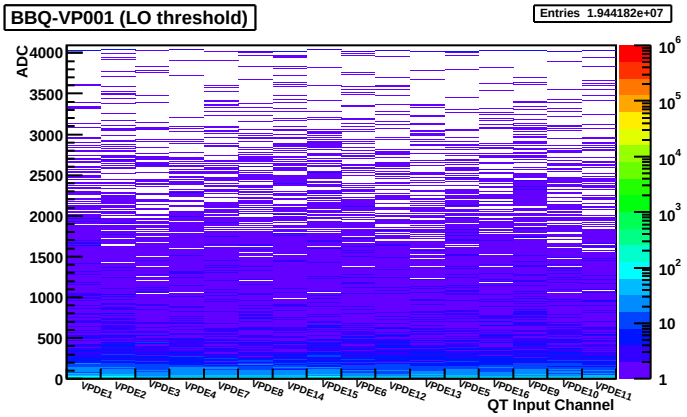

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.944182e+07
TAC
QT Input Channel

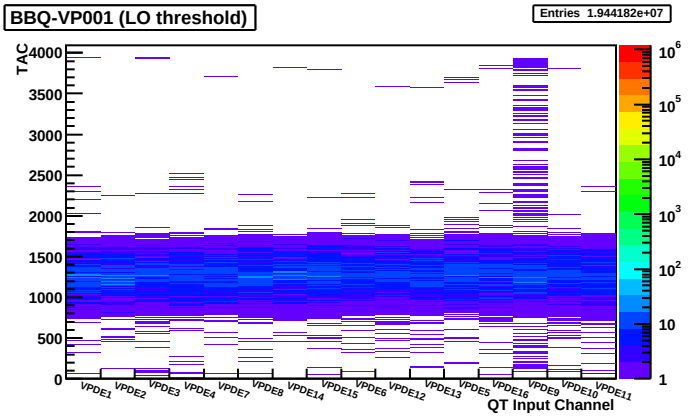

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.944182e+07
ADC
QT Input Channel

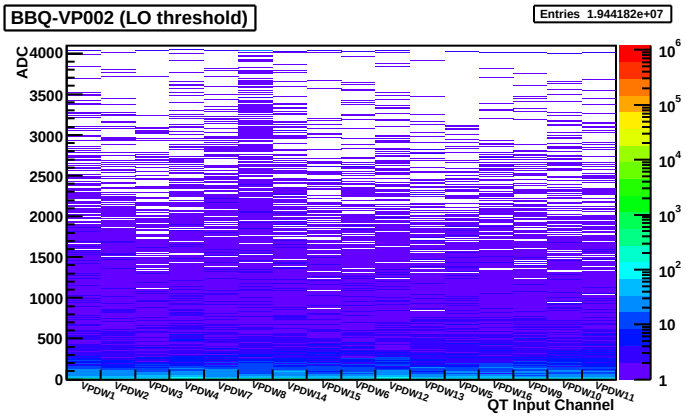

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.944182e+07
TAC
QT Input Channel

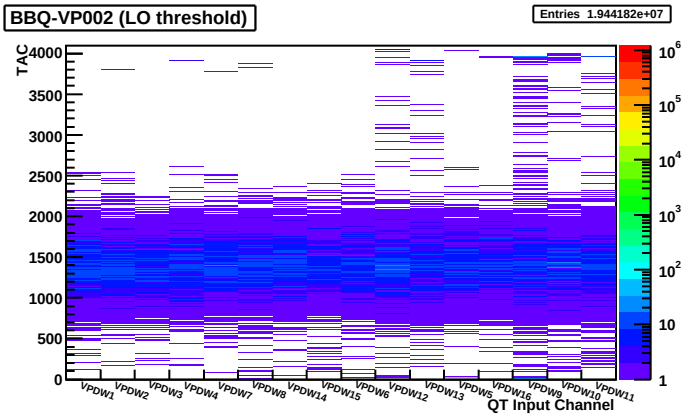

BBQ-ZD001 (ZDC TOWER)
Entries 1.944182e+07
ADC

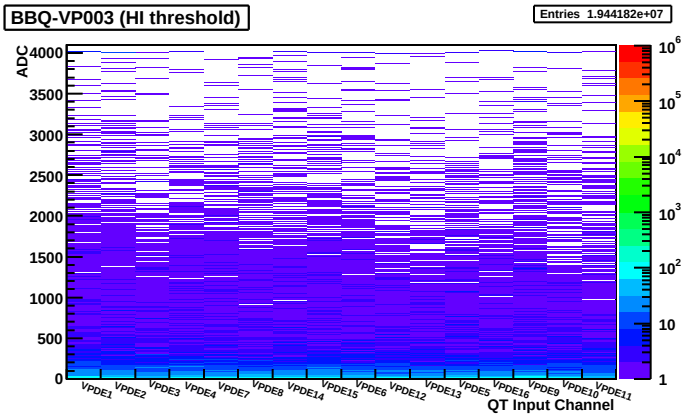

BBQ-ZD001 (ZDC TOWER)
Entries 1.944182e+07
TAC

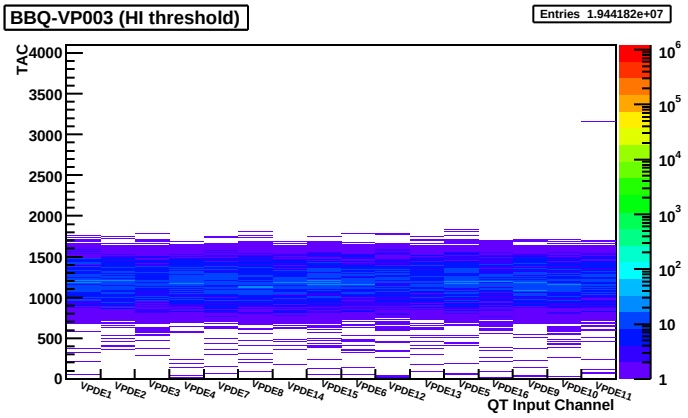

BBQ-VP001 (LO threshold)
Entries 1.944182e+07
ADC
QT Input Channel

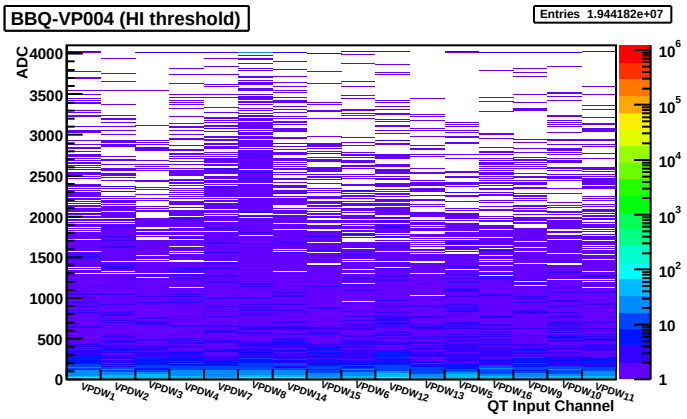

BBQ-VP001 (LO threshold)
Entries 1.944182e+07
TAC
QT Input Channel

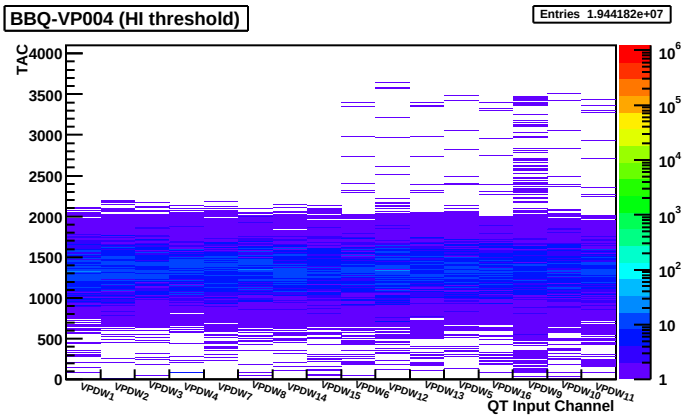

BBQ-VP002 (LO threshold)
Entries 1.944182e+07
ADC
QT Input Channel

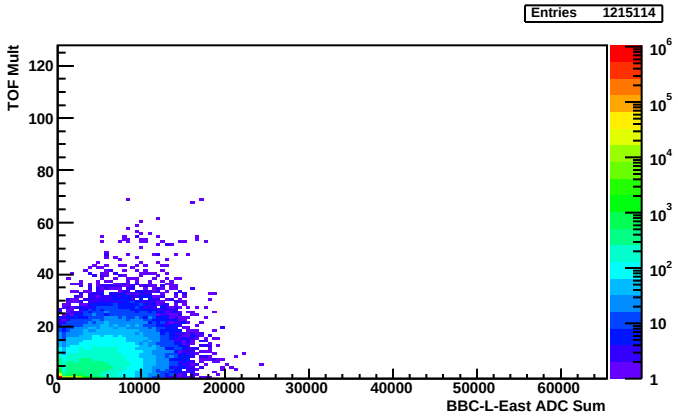

BBQ-VP002 (LO threshold)
Entries 1.944182e+07
TAC
QT Input Channel

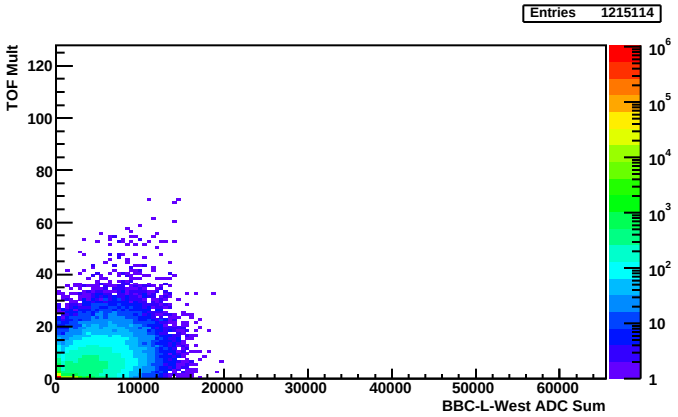

BBQ-VP003 (HI threshold)
Entries 1.944182e+07
ADC
QT Input Channel

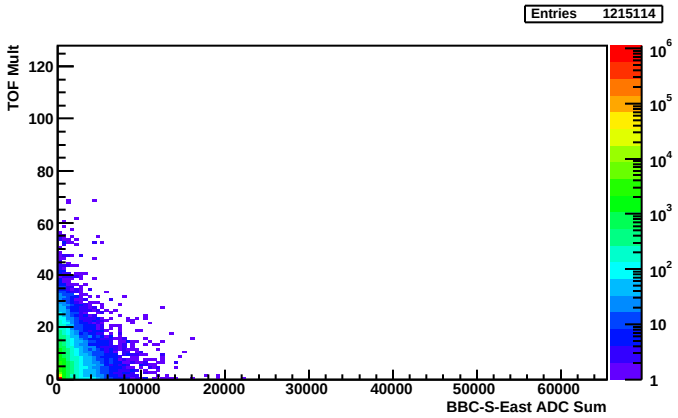

BBQ-VP003 (HI threshold)
Entries 1.944182e+07
TAC
QT Input Channel

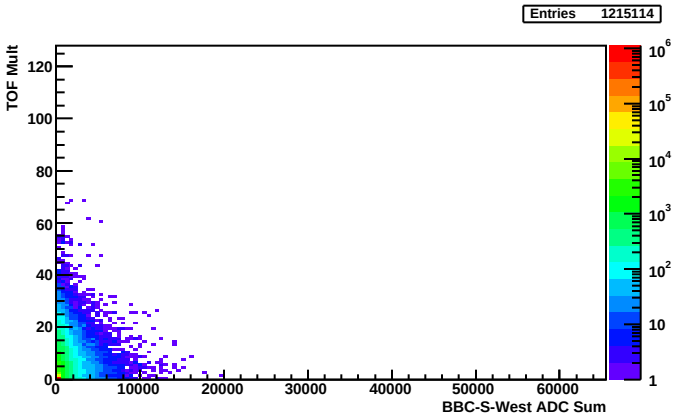

BBQ-VP004 (HI threshold)
Entries 1.944182e+07
ADC
QT Input Channel

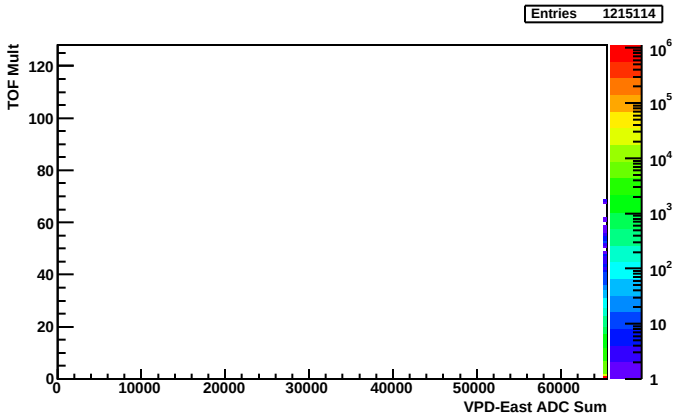

BBQ-VP004 (HI threshold)
Entries 1.944182e+07
TAC
QT Input Channel

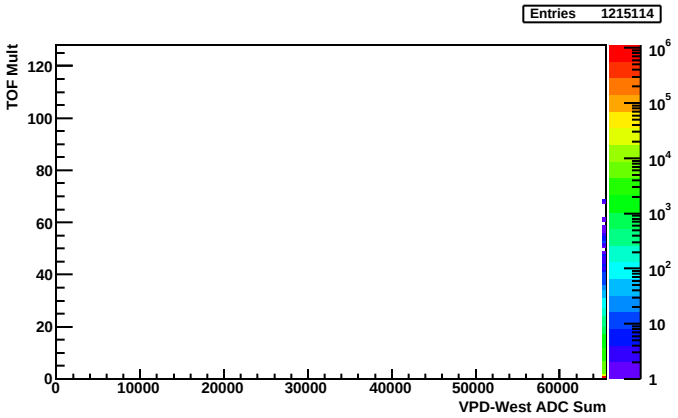

Entries 1215114
TOF Mult
BBC-L-East ADC Sum

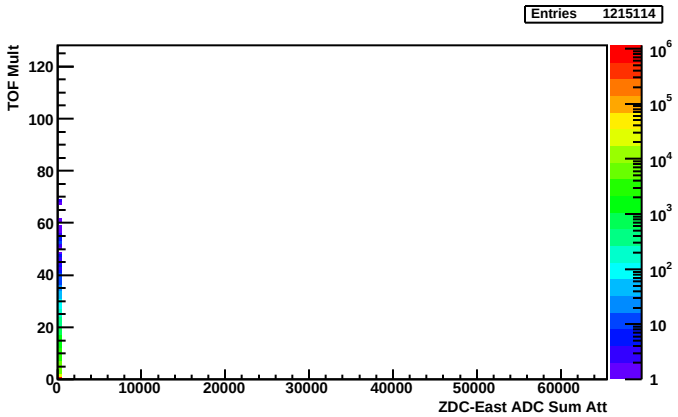

Entries 1215114
TOF Mult
BBC-L-West ADC Sum

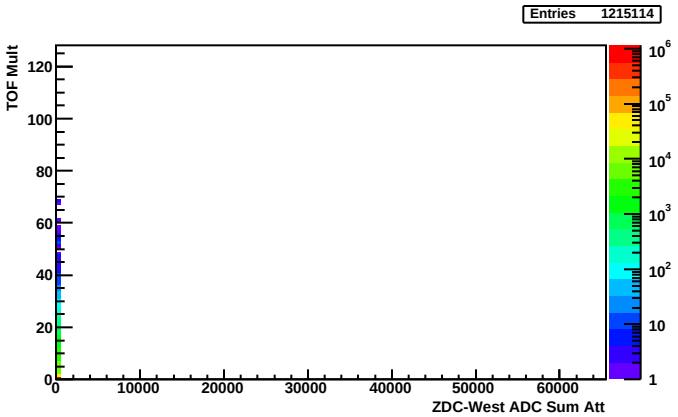

Entries 1215114
TOF Mult
BBC-S-East ADC Sum

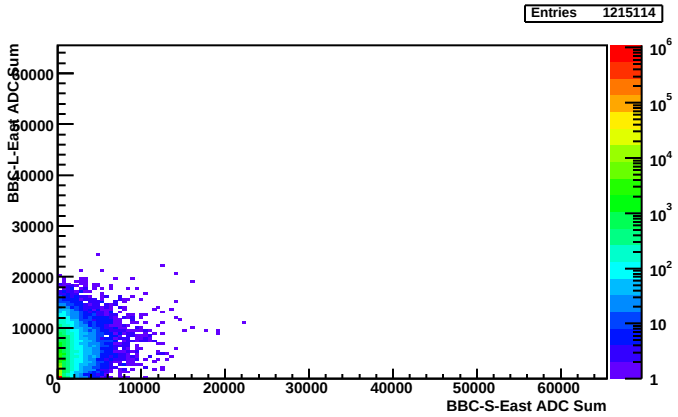

Entries 1215114
TOF Mult
BBC-S-West ADC Sum

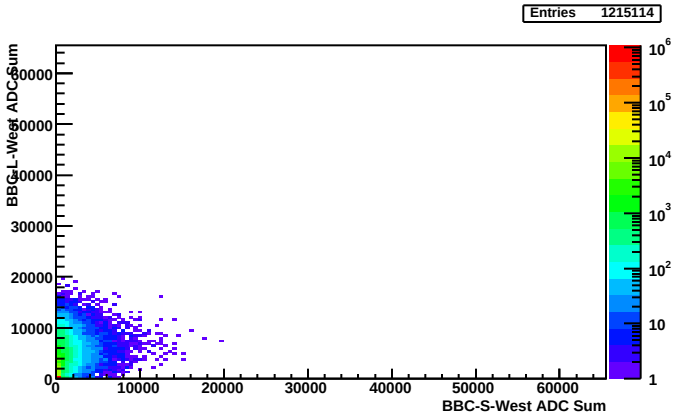

Entries 1215114
TOF Mult
VPD-East ADC Sum

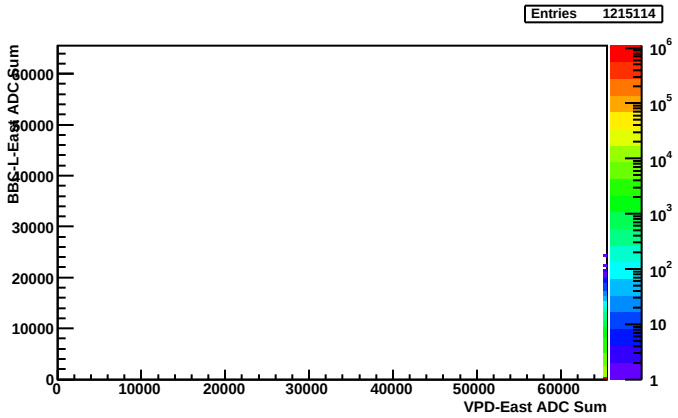

Entries 1215114
TOF Mult
VPD-West ADC Sum

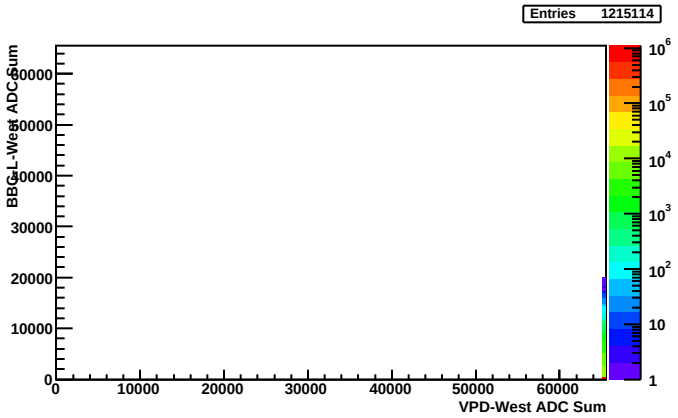

Entries 1215114
TOF Mult
ZDC-East ADC Sum Att

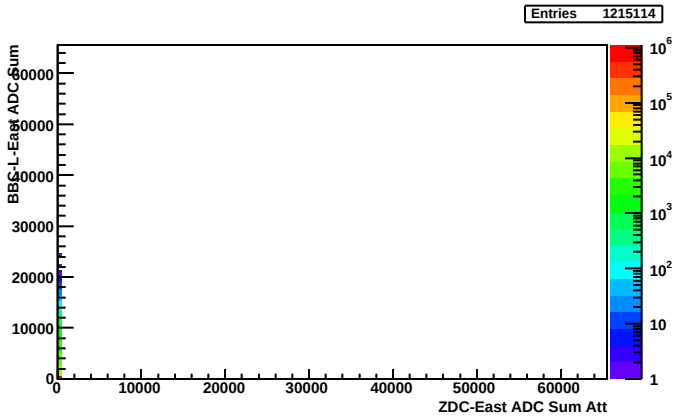

Entries 1215114
TOF Mult
ZDC-West ADC Sum Att

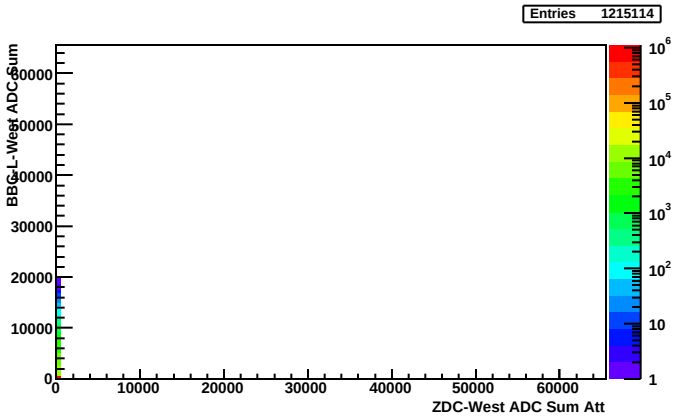

Entries 1215114
BBC-L-East ADC Sum
BBC-S-East ADC Sum

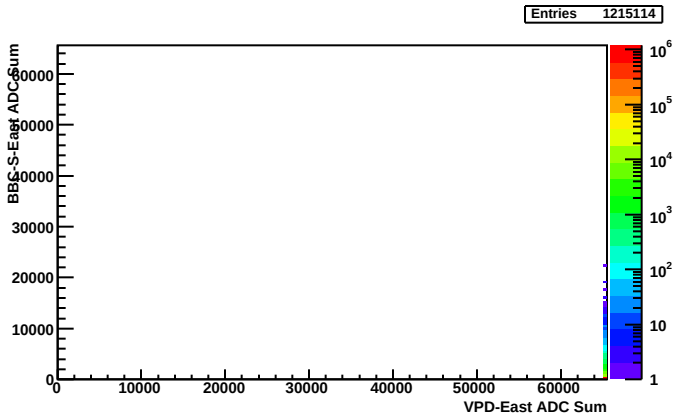

Entries 1215114
BBC-L-West ADC Sum
BBC-S-West ADC Sum

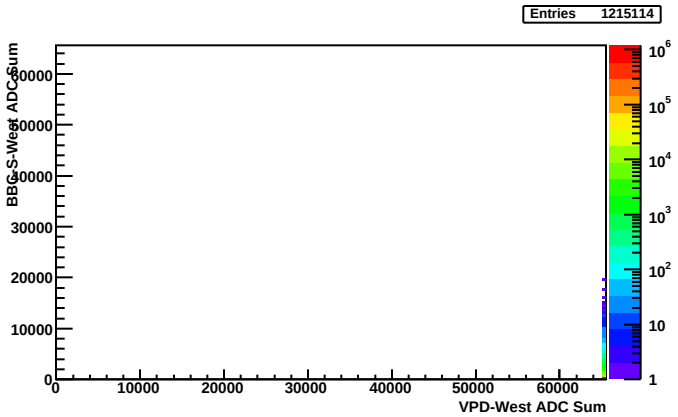

Entries 1215114
BBC-L-East ADC Sum
VPD-East ADC Sum

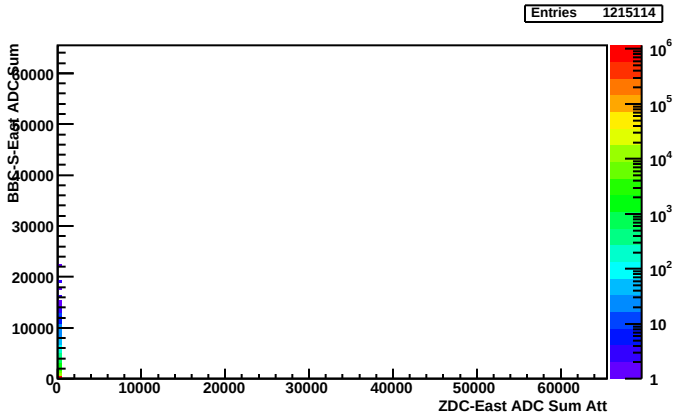

Entries 1215114
BBC-L-West ADC Sum
VPD-West ADC Sum

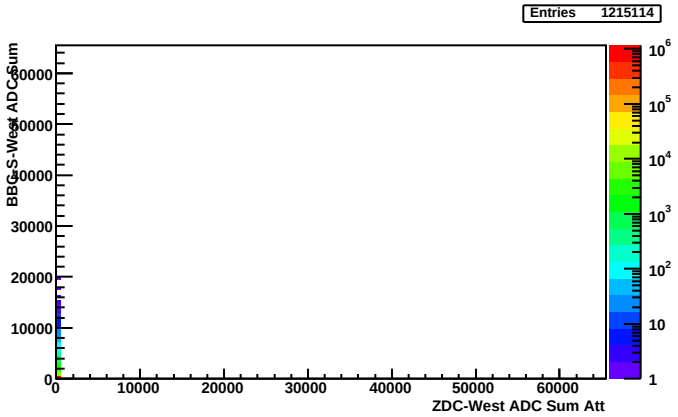

Entries 1215114
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

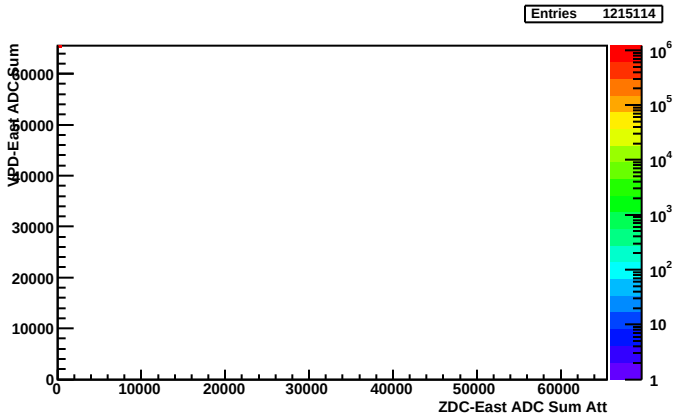

Entries 1215114
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

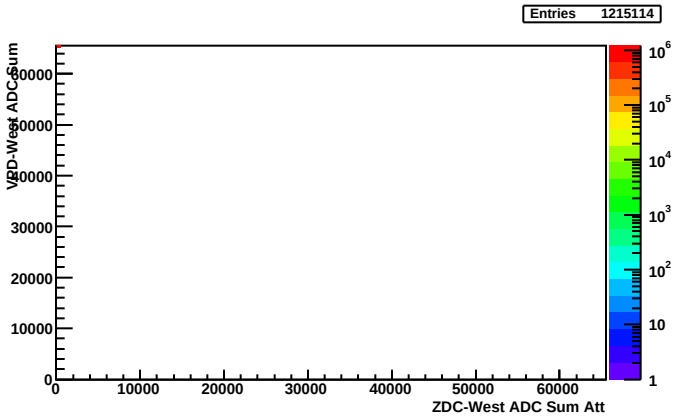

Entries 1215114
BBC-S-East ADC Sum
VPD-East ADC Sum

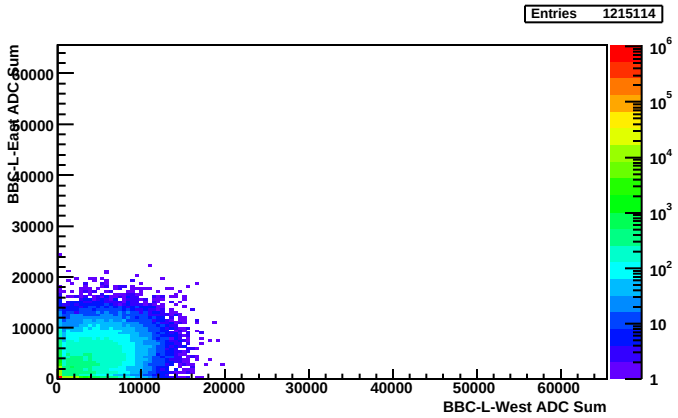

Entries 1215114
BBC-S-West ADC Sum
VPD-West ADC Sum

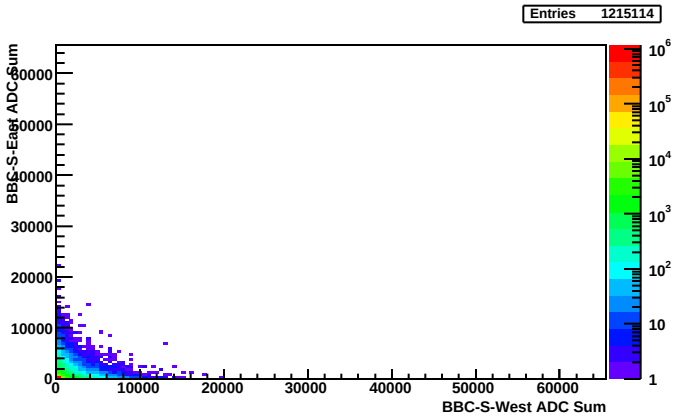

Entries 1215114
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

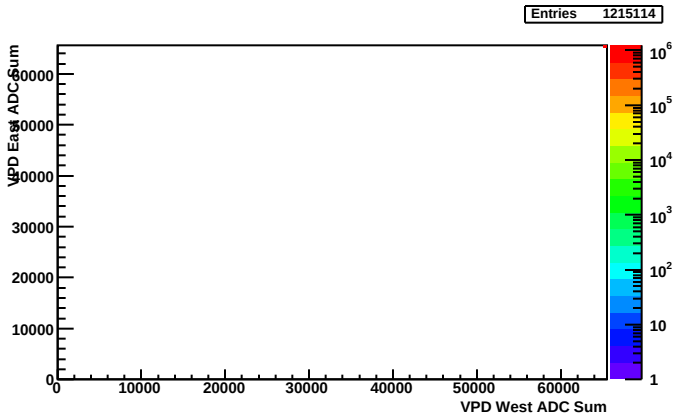

Entries 1215114
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

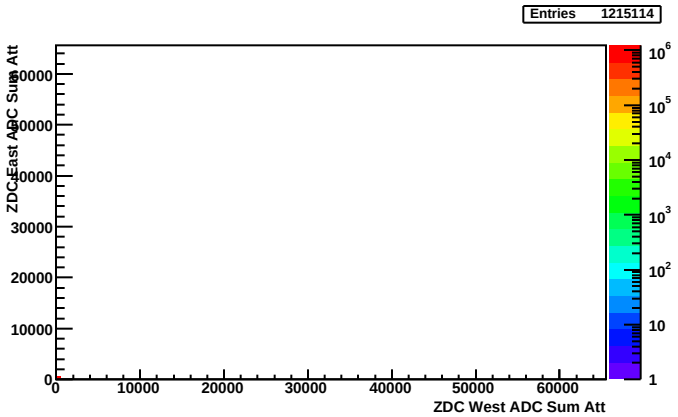

Entries 1215114
VPD-East ADC Sum
ZDC-East ADC Sum Att

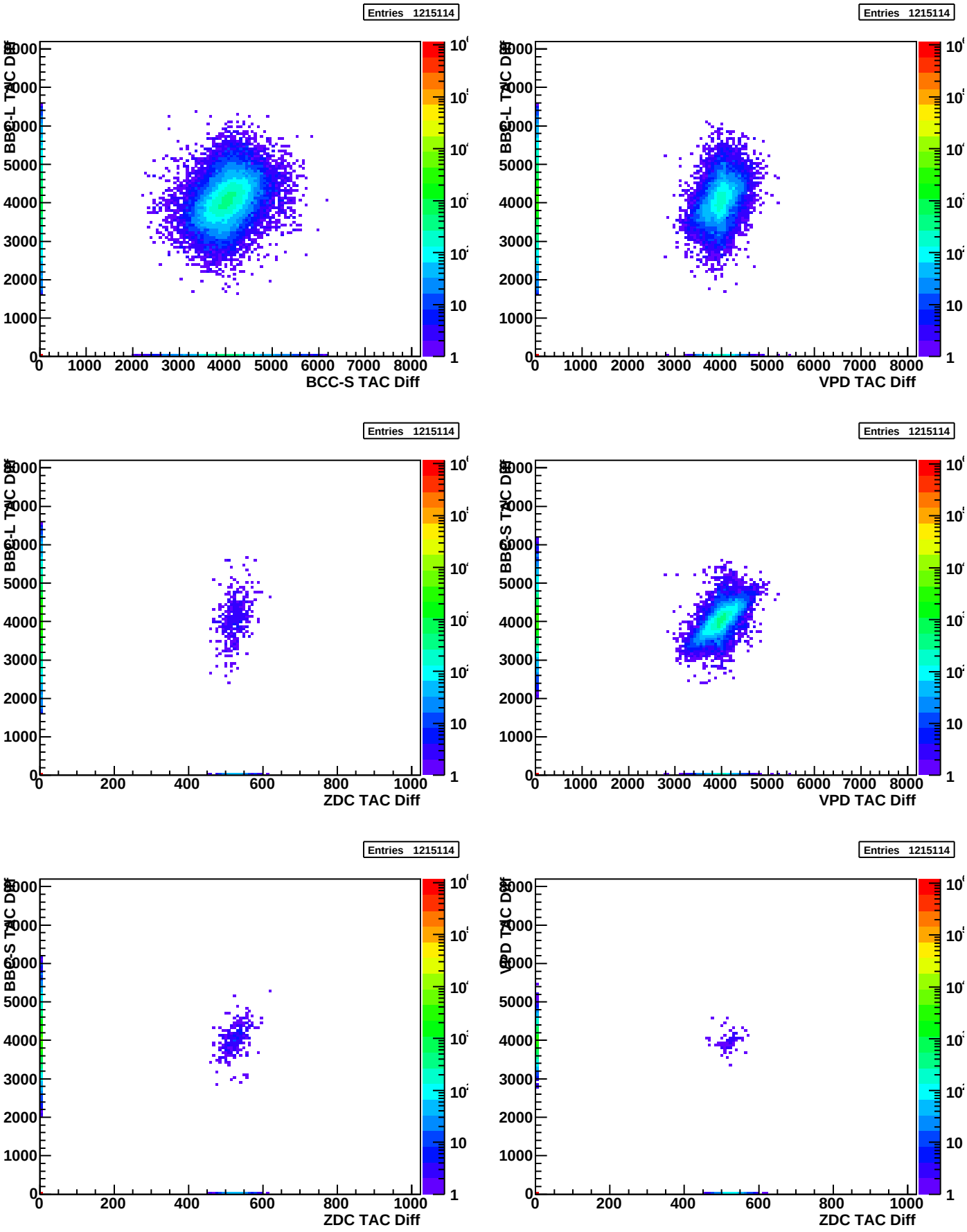

Entries 1215114
VPD-West ADC Sum
ZDC-West ADC Sum Att

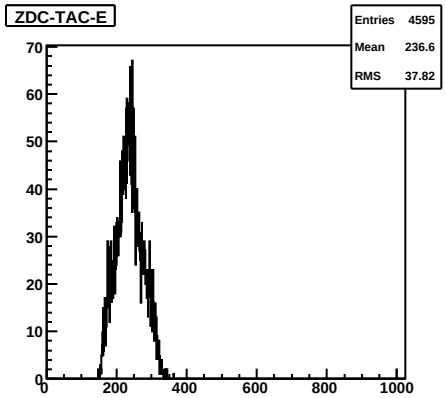

Entries 1215114
BBC-L-East ADC Sum
BBC-L-West ADC Sum

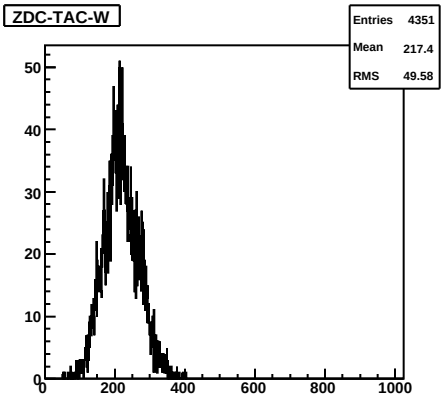

Entries 1215114
BBC-S-East ADC Sum
BBC-S-West ADC Sum

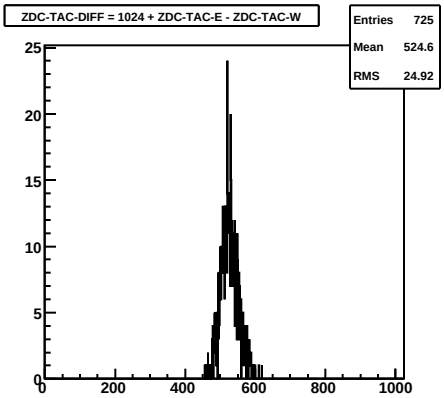

Entries 1215114
VPD East ADC Sum
VPD West ADC Sum

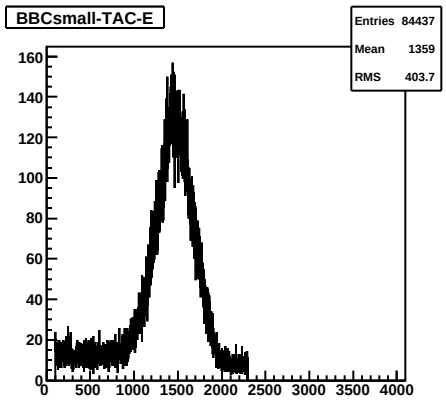

Entries 1215114
ZDC East ADC Sum Att
ZDC West ADC Sum Att

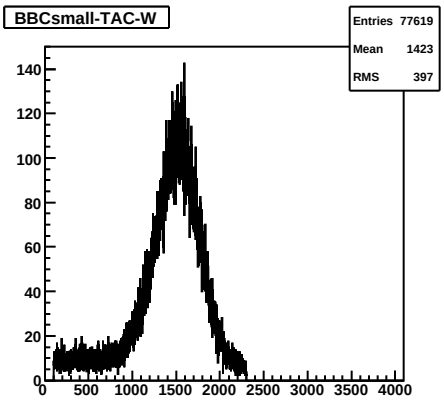

Entries 1215114
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1215114
BBC-L TAC Diff
VPD TAC Diff
Entries 1215114
BBC-L TAC Diff
ZDC TAC Diff
Entries 1215114
BBC-S TAC Diff
VPD TAC Diff
Entries 1215114
BBC-S TAC Diff
ZDC TAC Diff
Entries 1215114
VPD TAC Diff
ZDC TAC Diff

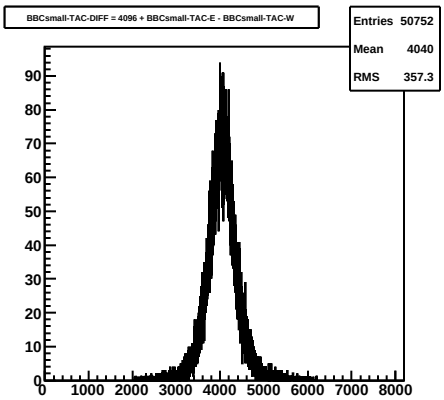

ZDC-TAC-E
Entries 4595
Mean 236.6
RMS 37.82

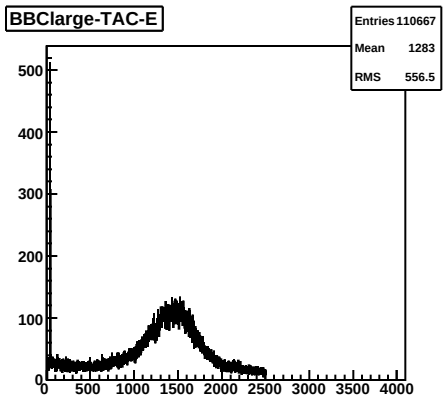

ZDC-TAC-W
Entries 4351
Mean 217.4
RMS 49.58

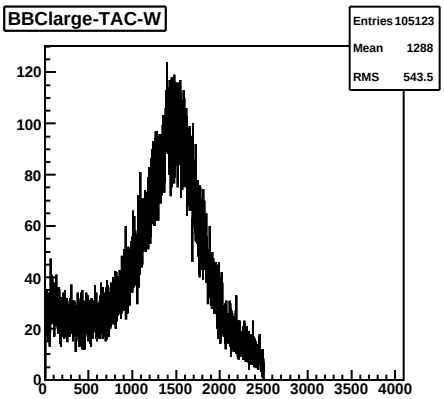

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 725
Mean 524.6
RMS 24.92

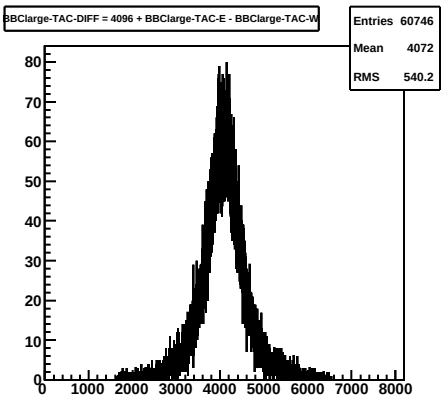

BBCsmall-TAC-E
Entries 84437
Mean 1359
RMS 403.7

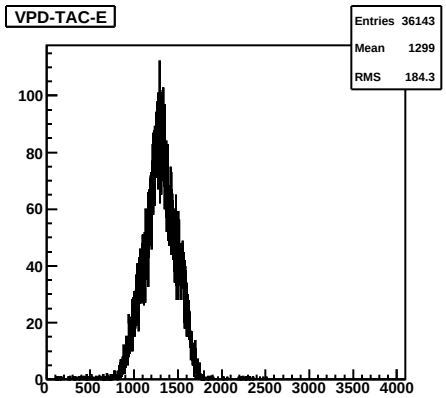

BBCsmall-TAC-W
Entries 77619
Mean 1423
RMS 397

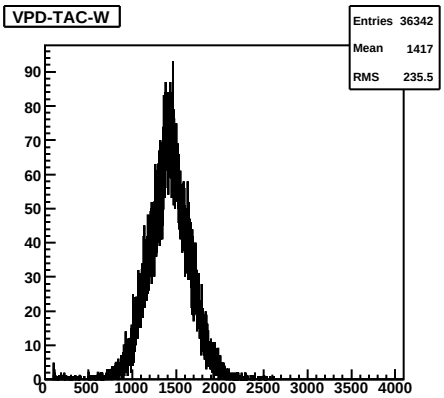

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 50752
Mean 4040
RMS 357.3

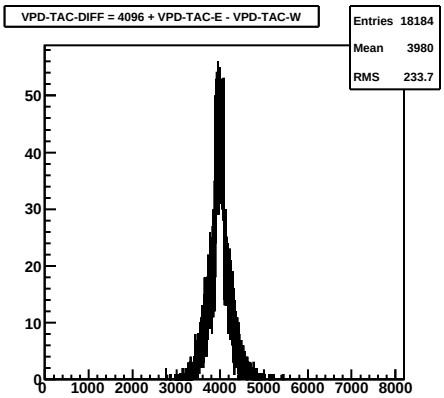

BBClarge-TAC-E
Entries 110667
Mean 1283
RMS 556.5

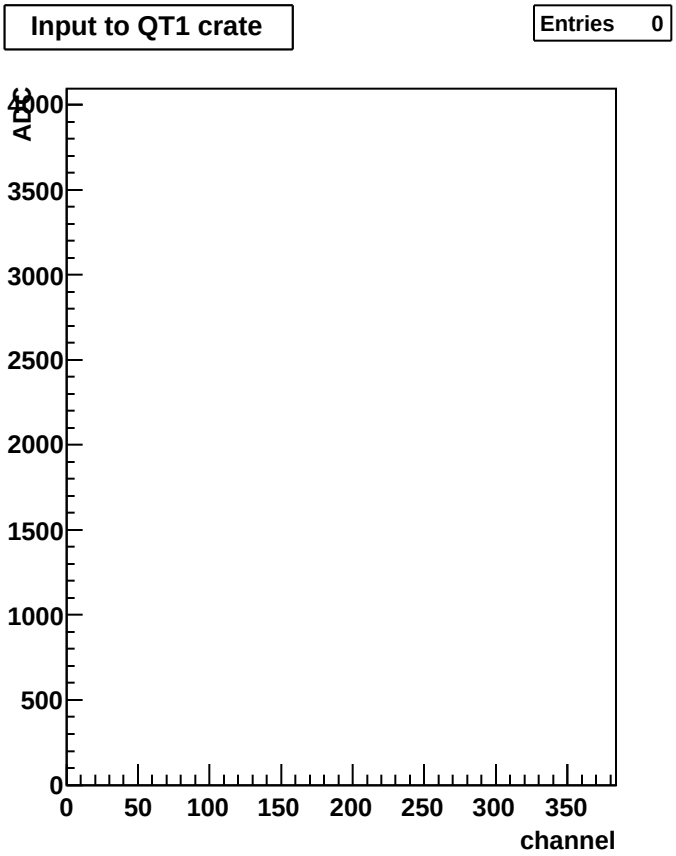

BBClarge-TAC-W
Entries 105123
Mean 1288
RMS 543.5

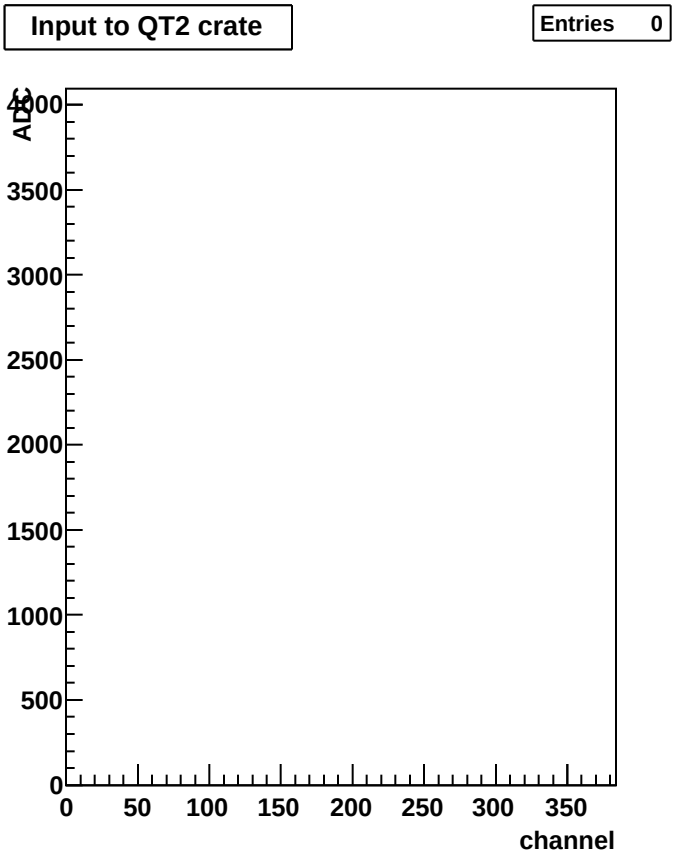

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 60746
Mean 4072
RMS 540.2

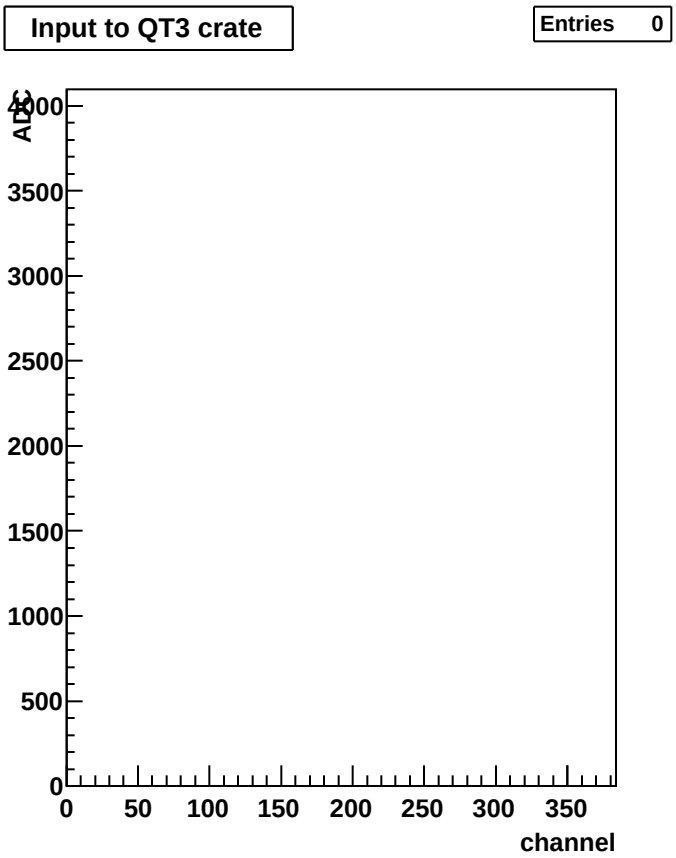

VPD-TAC-E
Entries 36143
Mean 1299
RMS 184.3

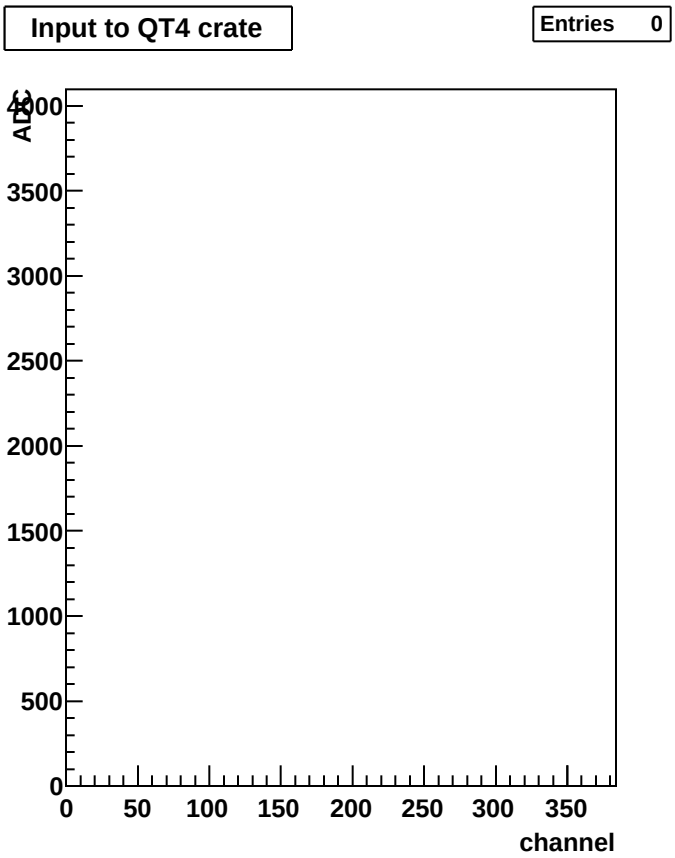

VPD-TAC-W
Entries 36342
Mean 1417
RMS 235.5

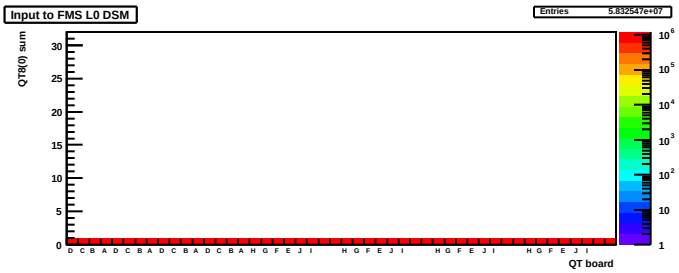

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 18184
Mean 3980
RMS 233.7

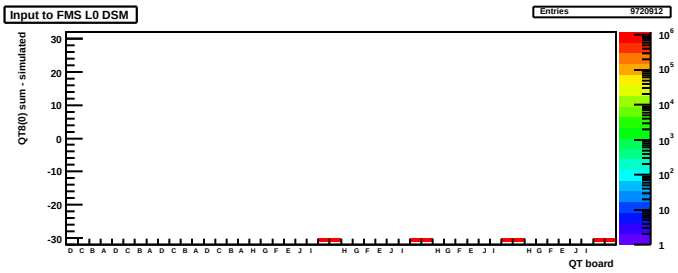

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

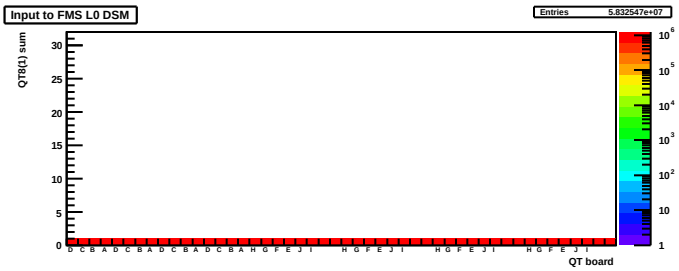

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

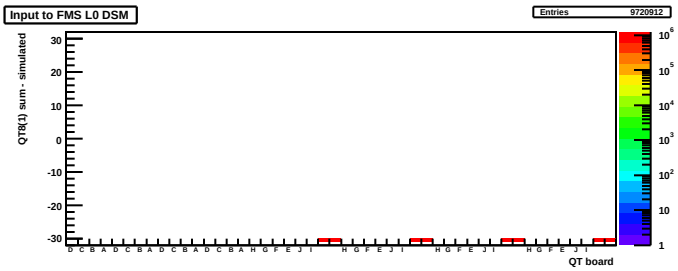

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

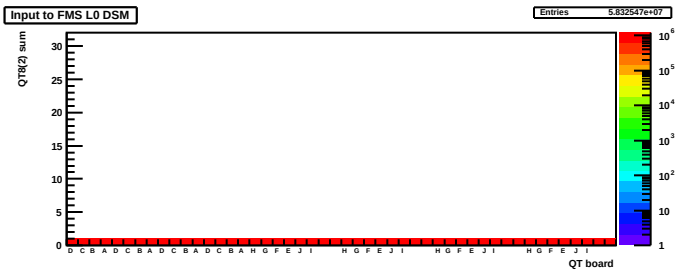

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

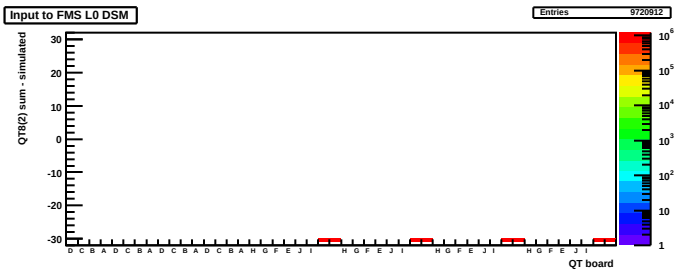

Input to FMS L0 DSM
Entries 5.832547e+07
QT8(0) sum
QT board

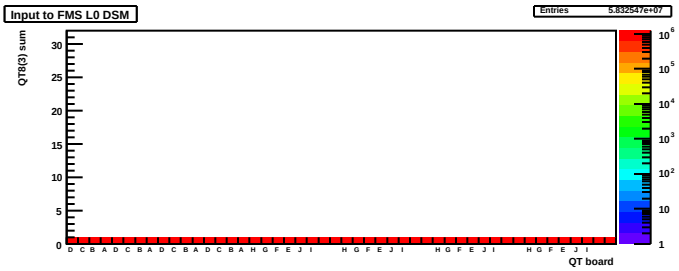

Input to FMS L0 DSM
Entries 9720912
QT8(0) sum - simulated
QT board

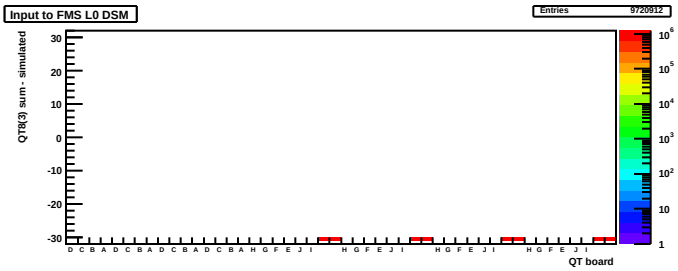

Input to FMS L0 DSM
Entries 5.832547e+07
QT8(1) sum
QT board

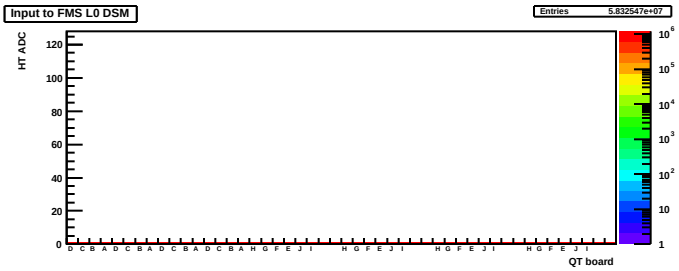

Input to FMS L0 DSM
Entries 9720912
QT8(1) sum - simulated
QT board

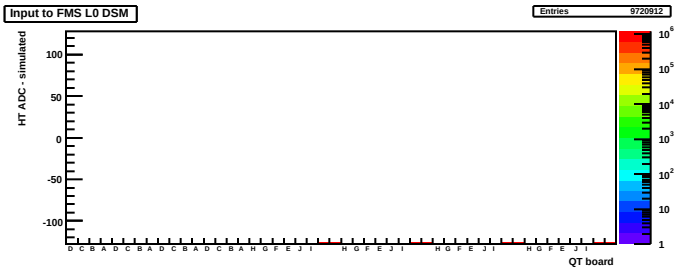

Input to FMS L0 DSM
Entries 5.832547e+07
QT8(2) sum
QT board

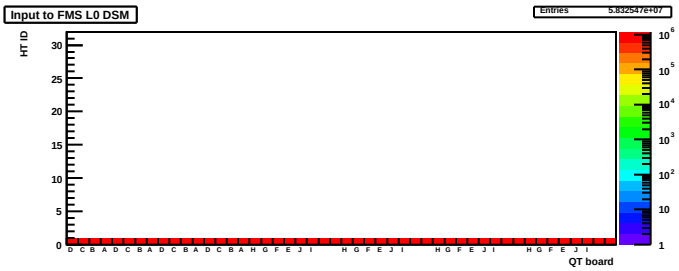

Input to FMS L0 DSM
Entries 9720912
QT8(2) sum - simulated
QT board

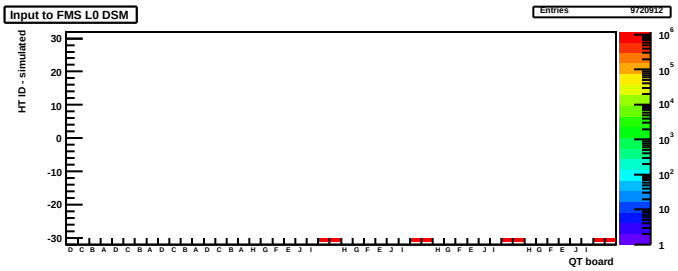

Input to FMS L0 DSM
Entries 5.832547e+07
QT8(3) sum
QT board

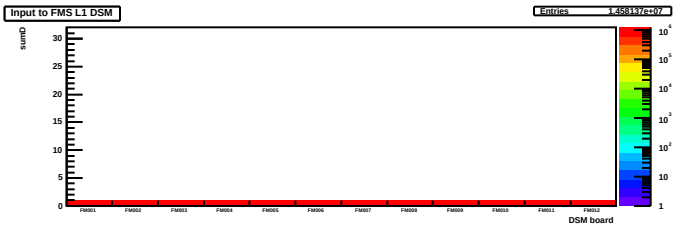

Input to FMS L0 DSM
Entries 9720912
QT8(3) sum - simulated
QT board

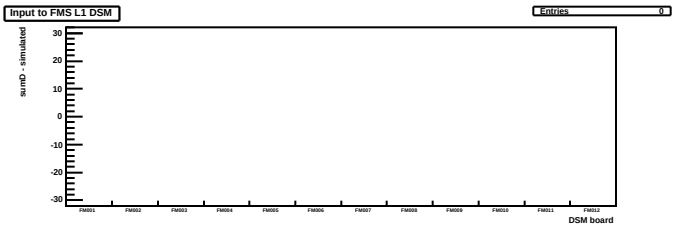

Input to FMS L0 DSM
Entries 5.832547e+07
HT ADC
QT board

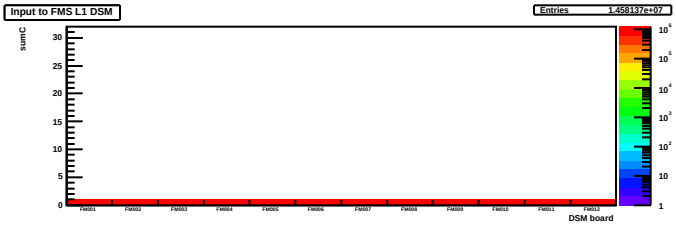

Input to FMS L0 DSM
Entries 9720912
HT ADC - simulated
QT board

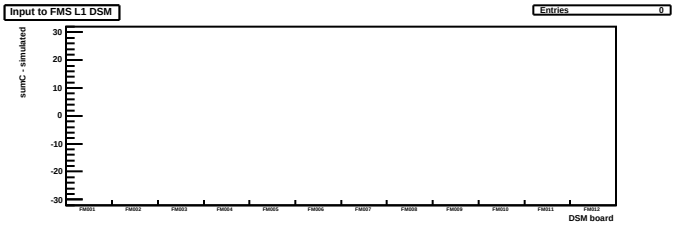

Input to FMS L0 DSM
Entries 5.832547e+07
HT ID
QT board

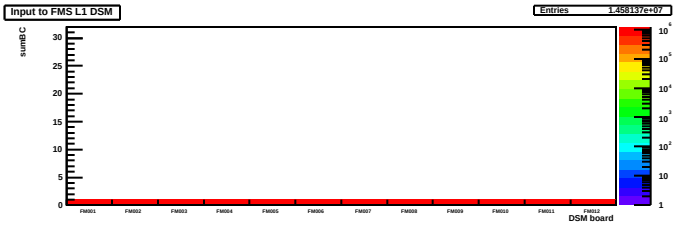

Input to FMS L0 DSM
Entries 9720912
HT ID - simulated
QT board

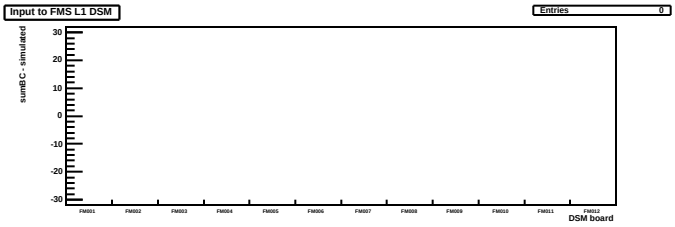

Input to FMS L1 DSM
Entries 1.458137e+07
sumD
DSM board

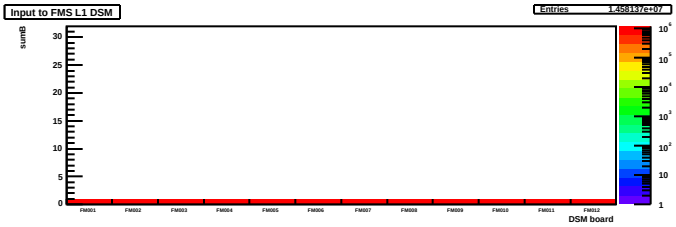

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

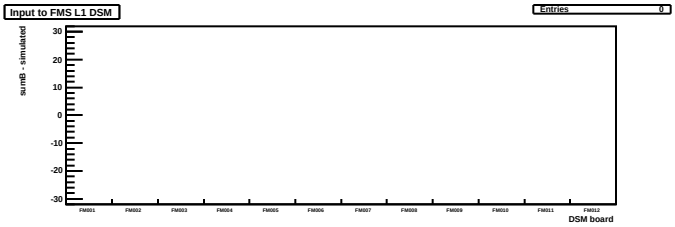

Input to FMS L1 DSM
Entries 1.458137e+07
sumC
DSM board

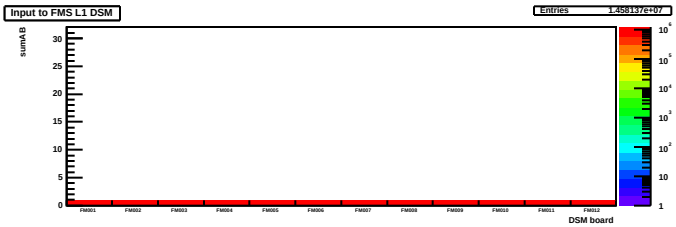

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

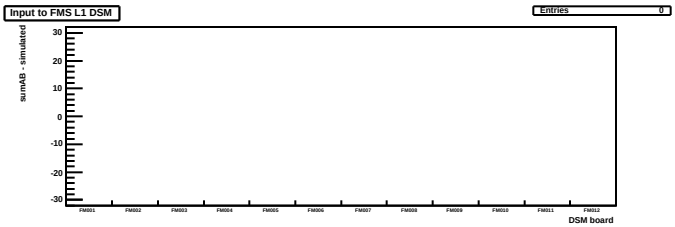

Input to FMS L1 DSM
Entries 1.458137e+07
sumBC
DSM board

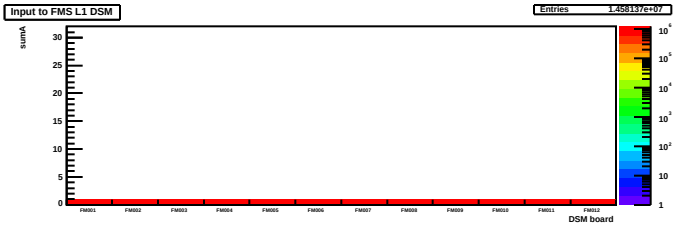

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

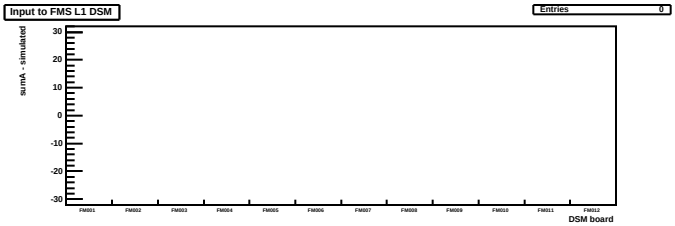

Input to FMS L1 DSM
Entries 1.458137e+07
sumB
DSM board

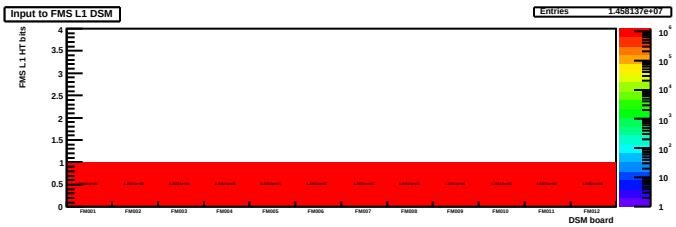

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

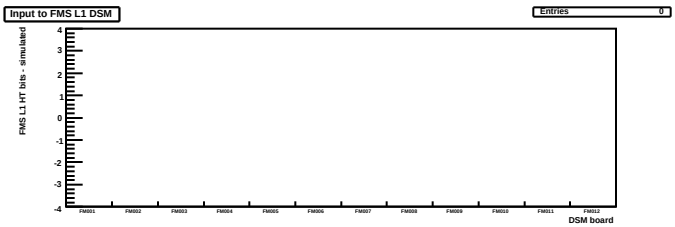

Input to FMS L1 DSM
Entries 1.458137e+07
sumAB
DSM board

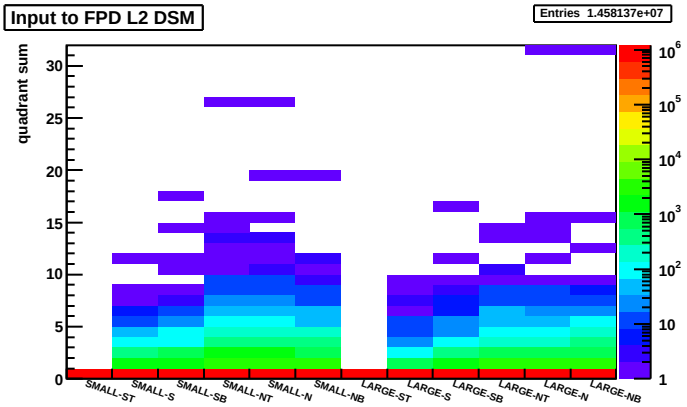

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

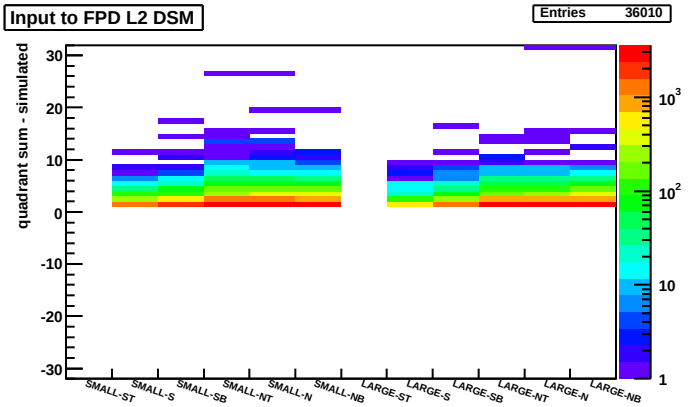

Input to FMS L1 DSM
Entries 1.458137e+07
sumA
DSM board

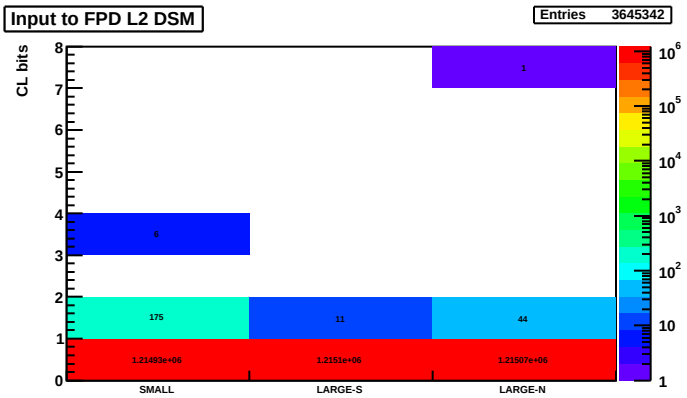

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

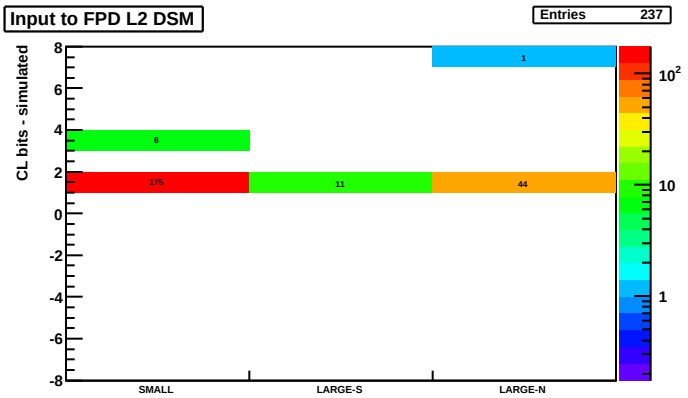

Input to FMS L1 DSM
Entries 1.458137e+07
FMS L1 HT bits
DSM board

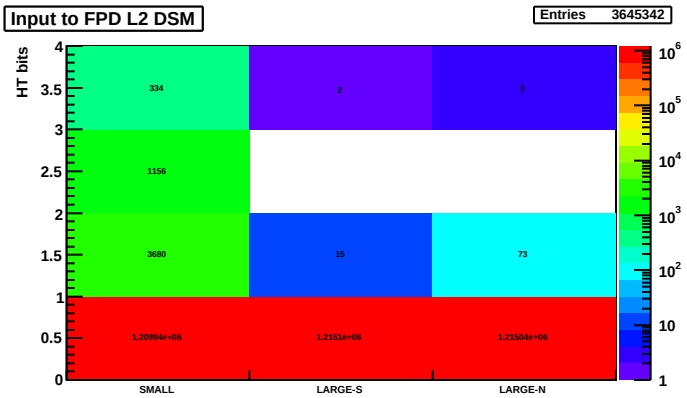

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

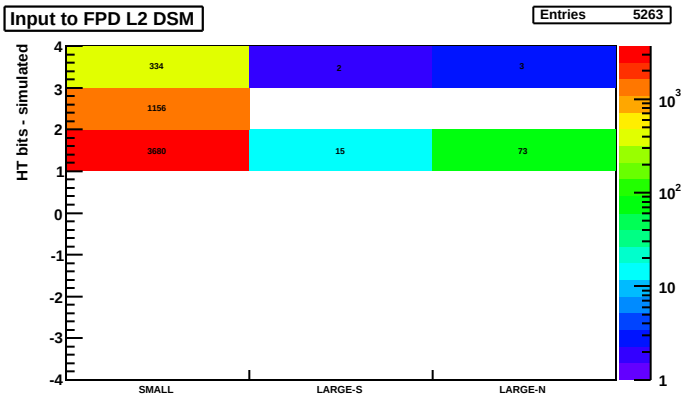

Input to FPD L2 DSM
Entries 1.458137e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

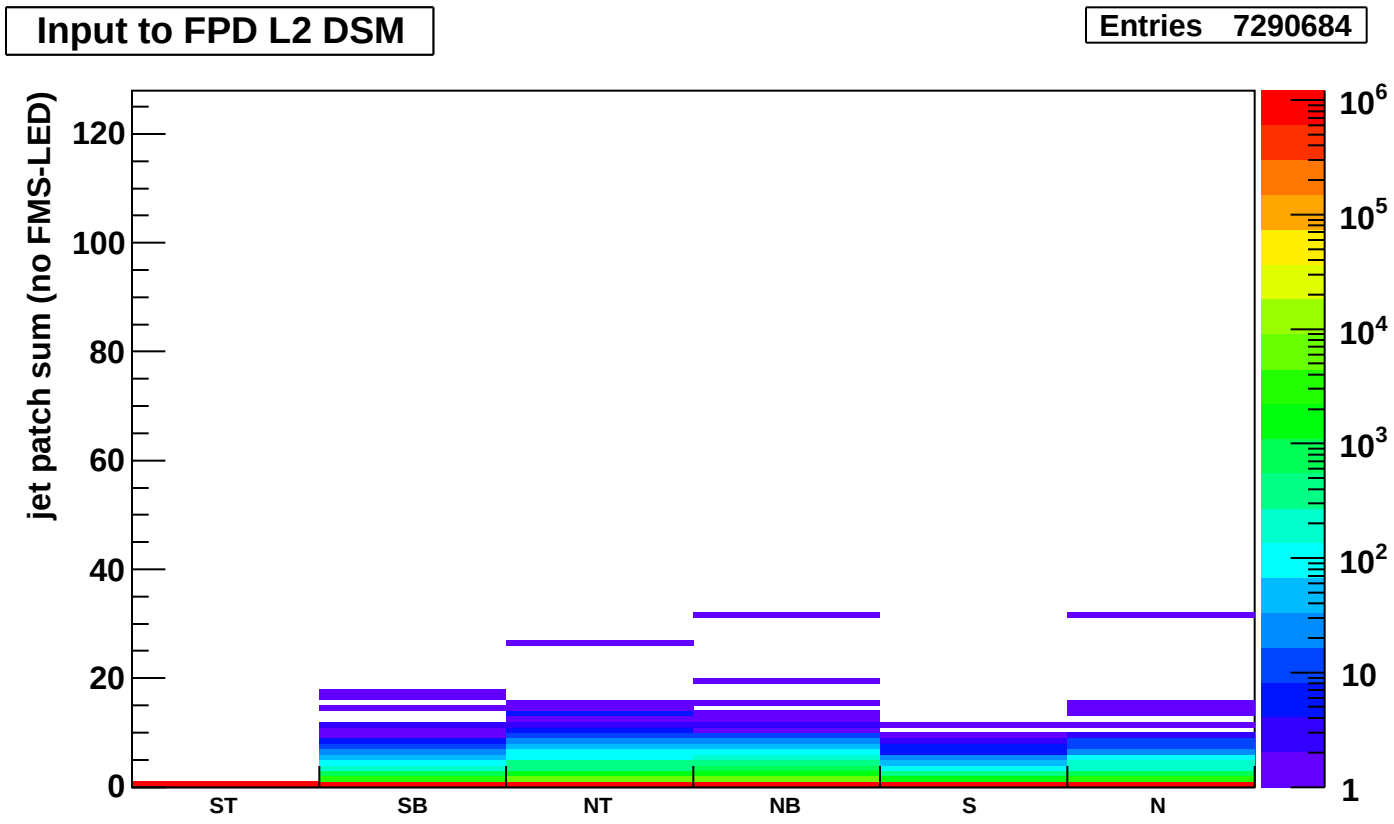

Input to FPD L2 DSM
Entries 36010
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

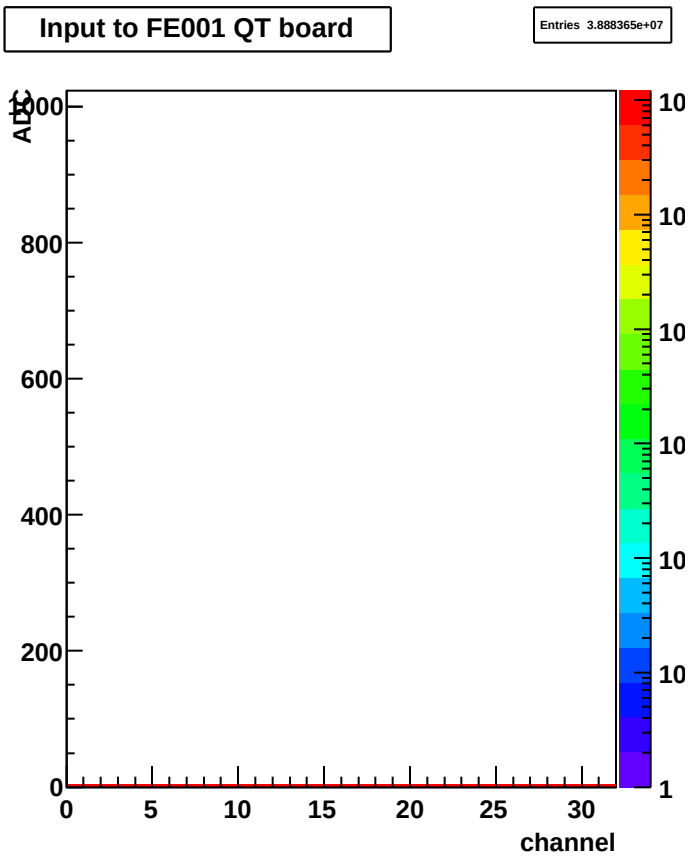

Input to FPD L2 DSM
Entries 3645342
CL bits
6
175
11
44
1
1.21493e+06
1.2151e+06
1.21507e+06
SMALL
LARGE-S
LARGE-N

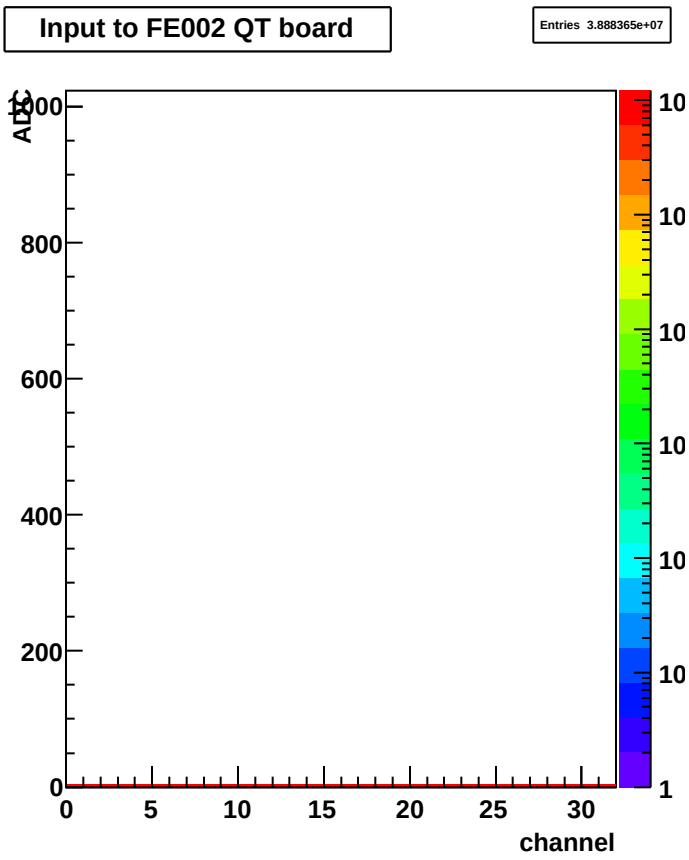

Input to FPD L2 DSM
Entries 237
CL bits - simulated
6
175
11
44
1
SMALL
LARGE-S
LARGE-N

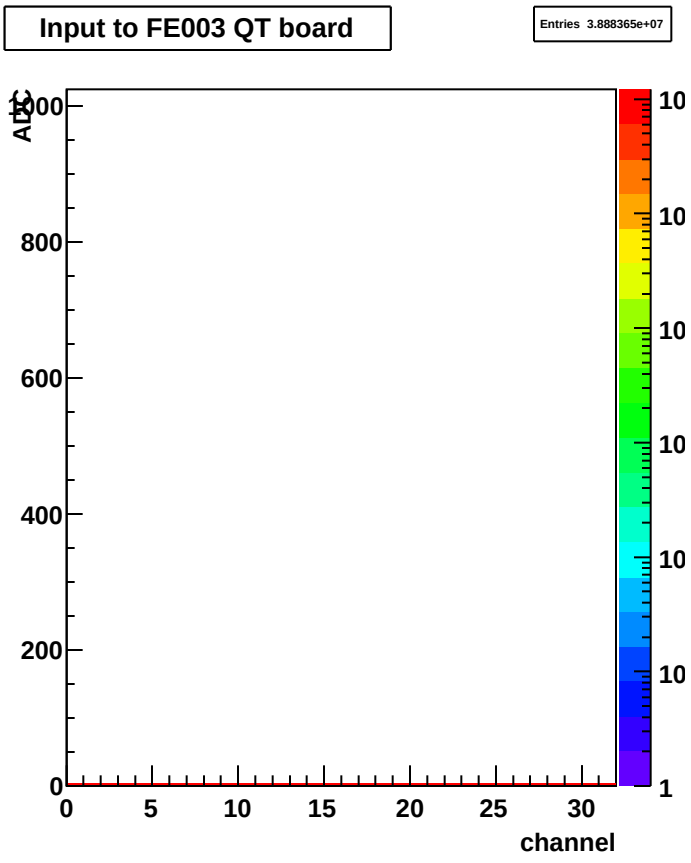

Input to FPD L2 DSM
Entries 3645342
HT bits
334
2
3
1156
3680
15
73
1.20994e+06
1.2151e+06
1.21504e+06
SMALL
LARGE-S
LARGE-N

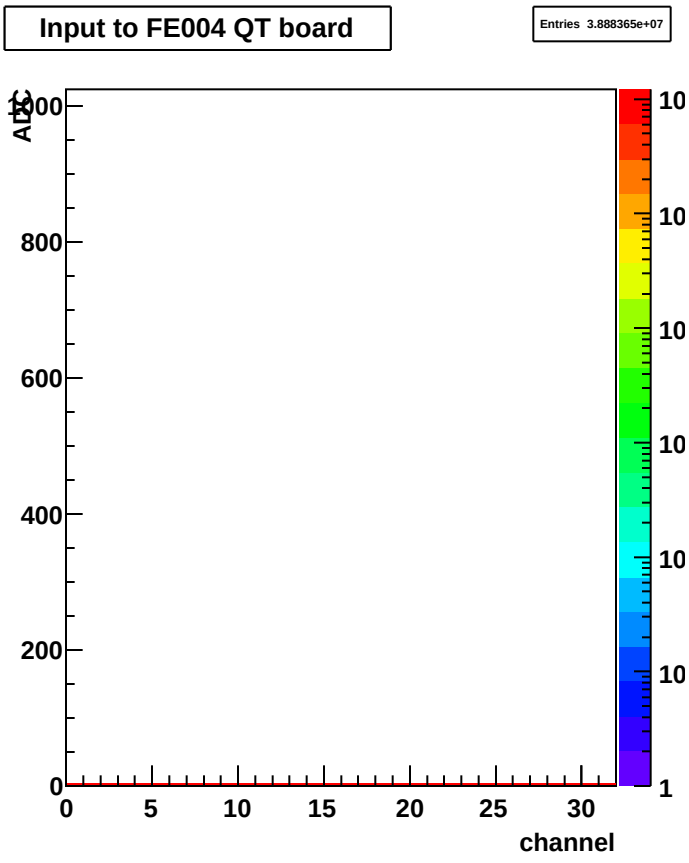

Input to FPD L2 DSM
Entries 5263
HT bits - simulated
334
2
3
1156
3680
15
73
SMALL
LARGE-S
LARGE-N

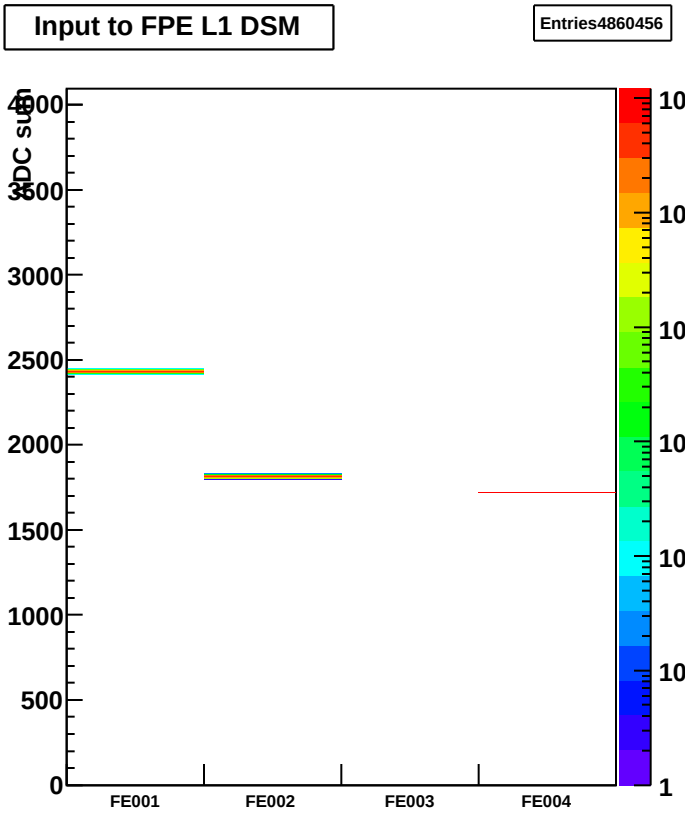

Input to FPD L2 DSM
Entries 7290684
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6

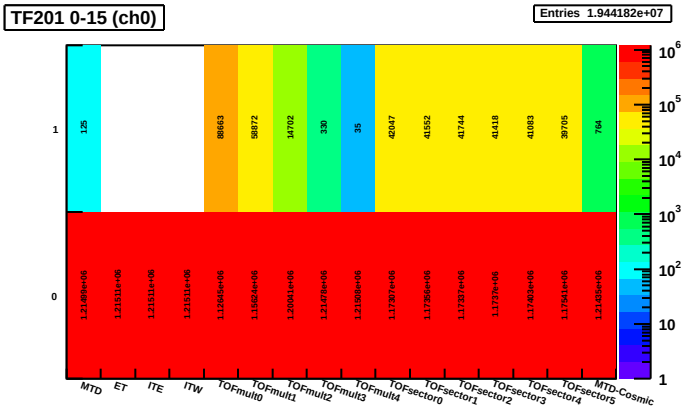

Input to FE001 QT board
Entries 3.888365e+07
ADC
channel

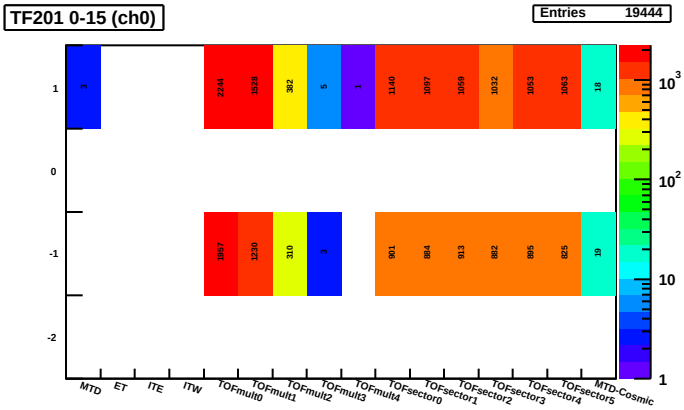

Input to FE002 QT board
Entries 3.888365e+07
ADC
channel

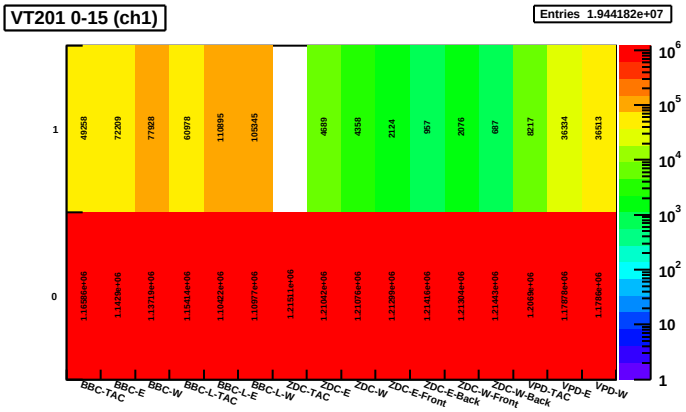

Input to FE003 QT board
Entries 3.888365e+07
ADC
channel

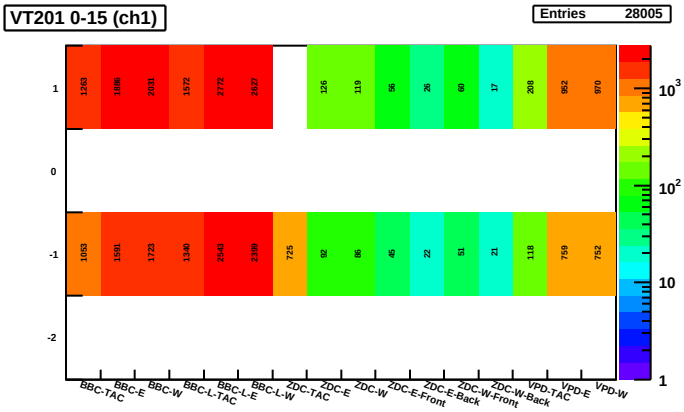

Input to FE004 QT board
Entries 3.888365e+07
ADC
channel


Input to FPE L1 DSM
Entries4860456
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 1.944182e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic


TF201 0-15 (ch0)
Entries 19444
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.944182e+07
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 28005
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
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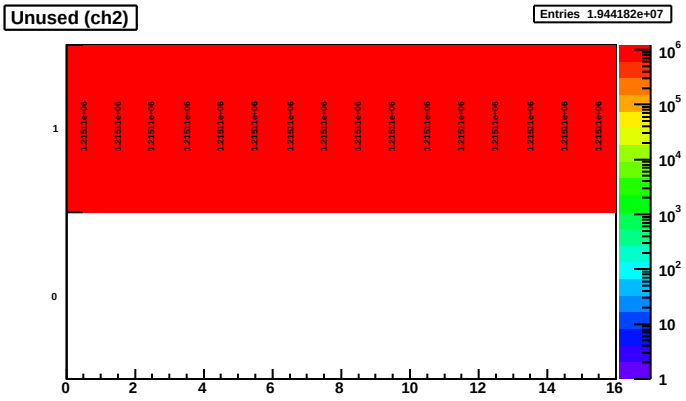
ZDC-W-Back
VPD-TAC
VPD-E
VPD-W


Unused (ch2)
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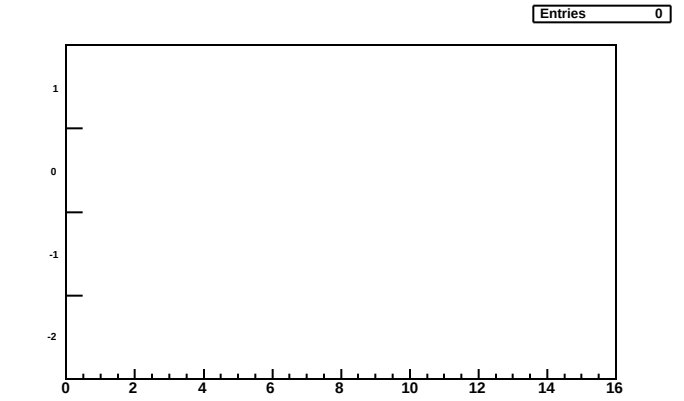
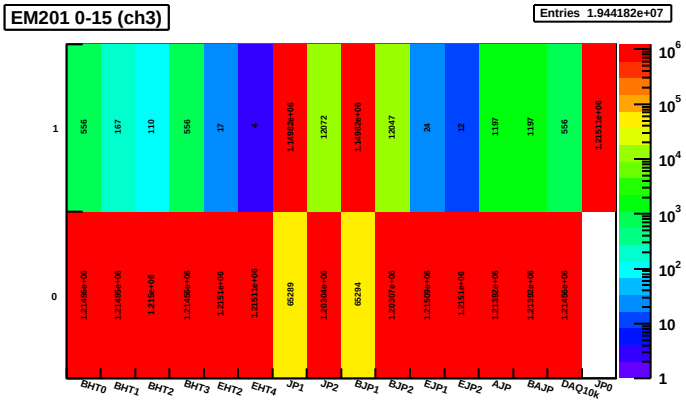
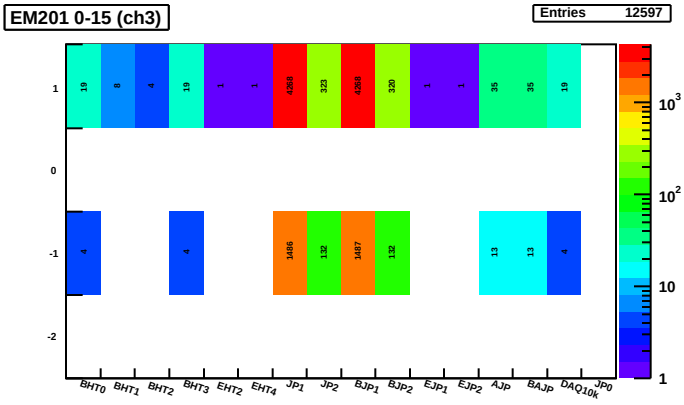
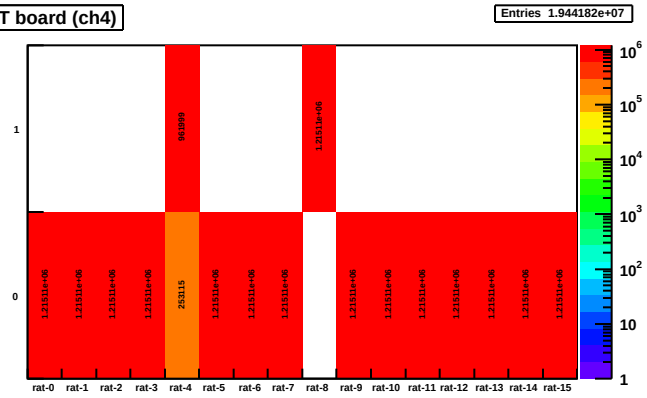
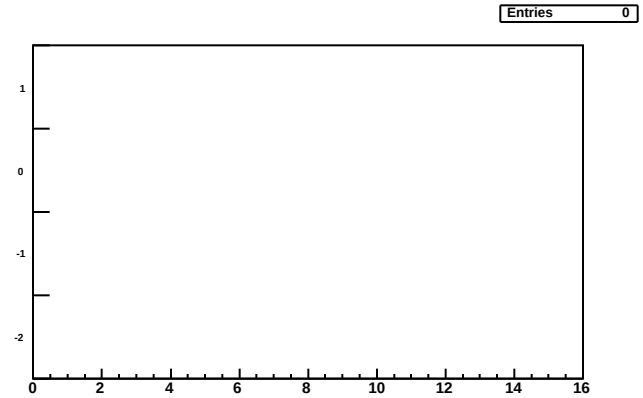

Entries 0


EM201 0-15 (ch3)
Entries 1.944182e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
DAQ10k
JP0

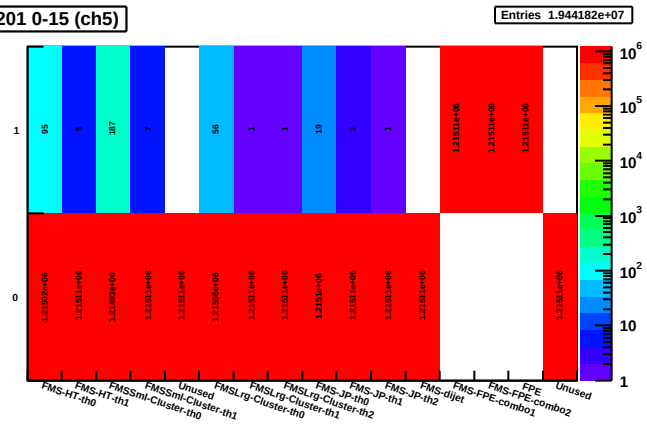

EM201 0-15 (ch3)
Entries 12597
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
DAQ10k
JP0

RAT board (ch4)





FP201 0-15 (ch5)



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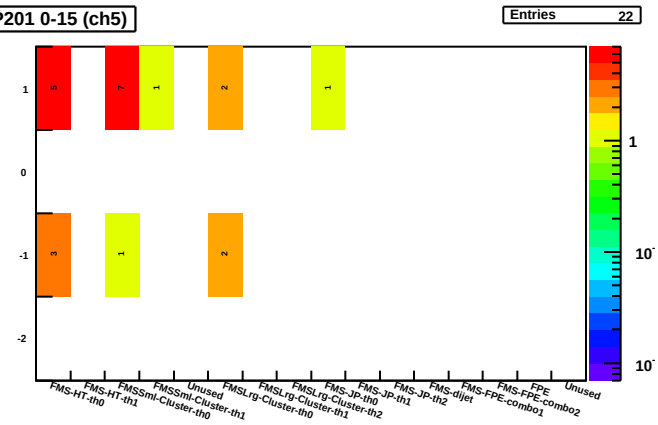
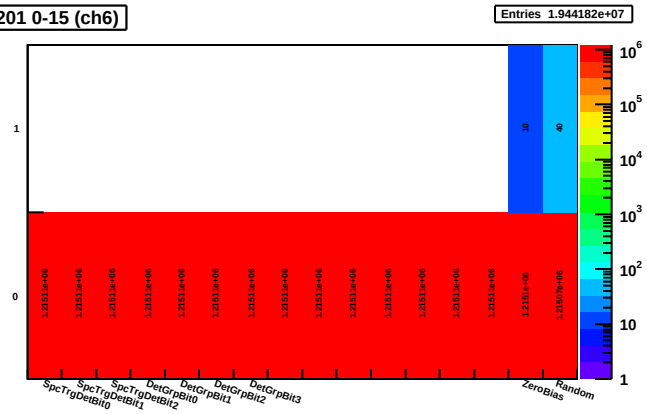
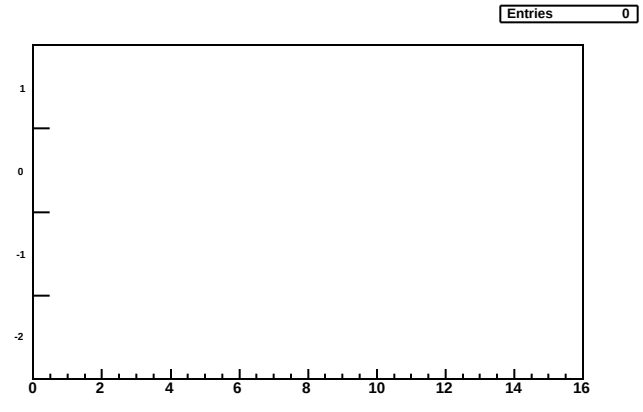
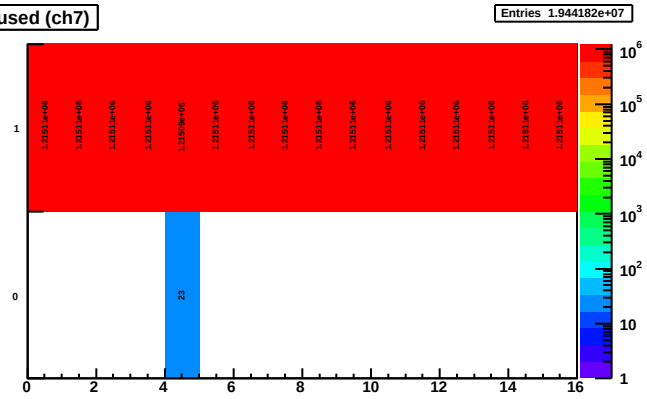
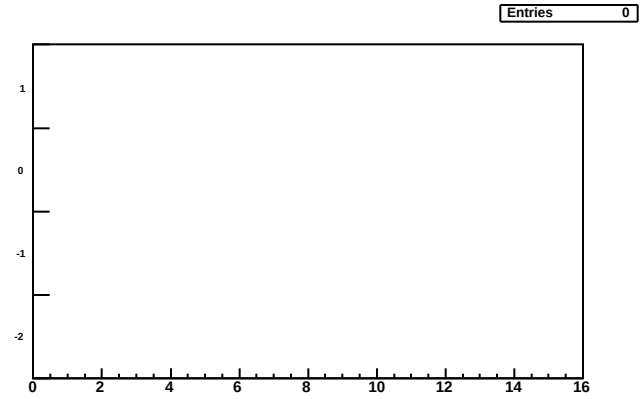


ST201 0-15 (ch6)





Unused (ch7)