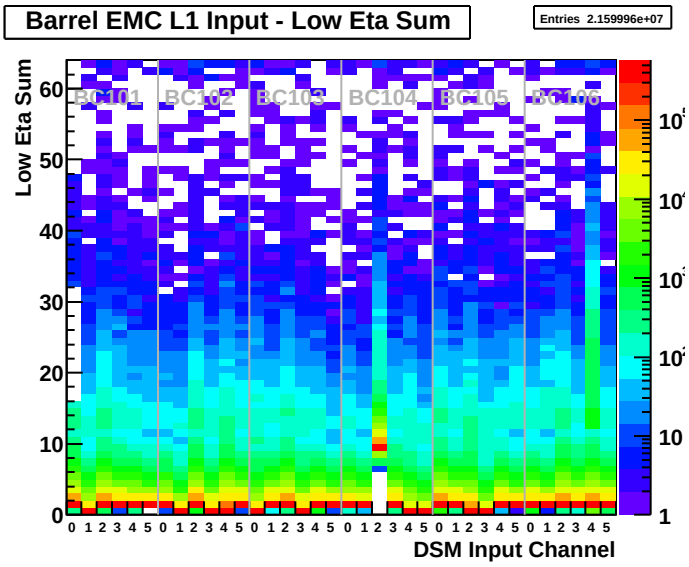
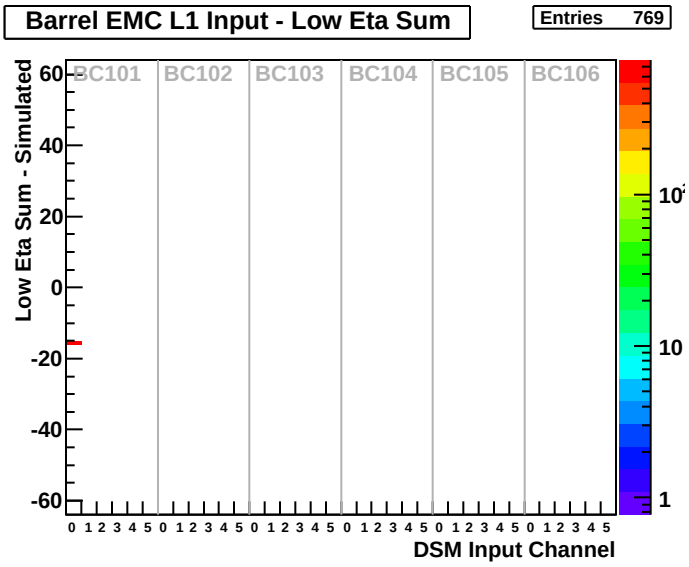
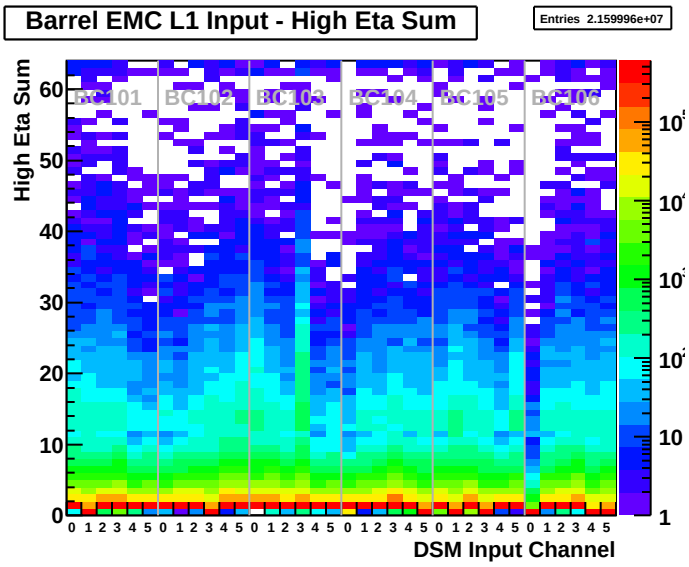
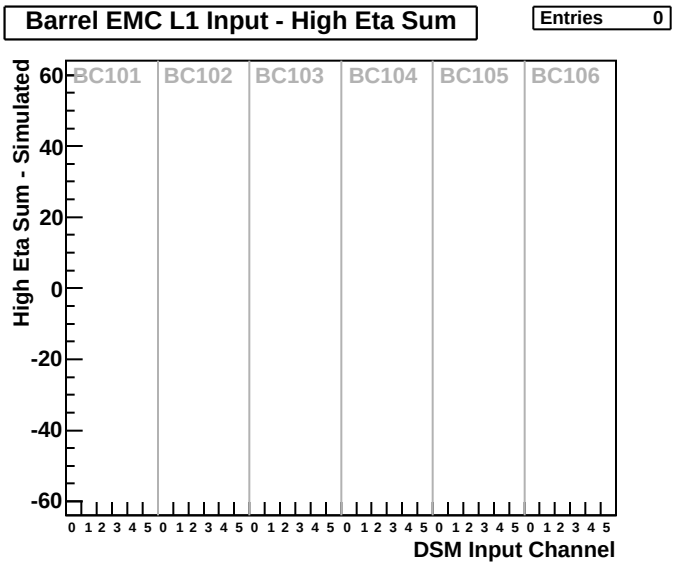
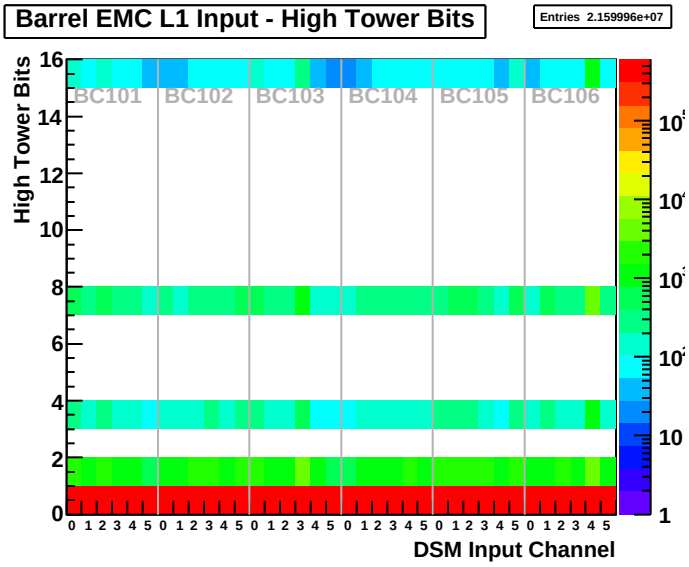
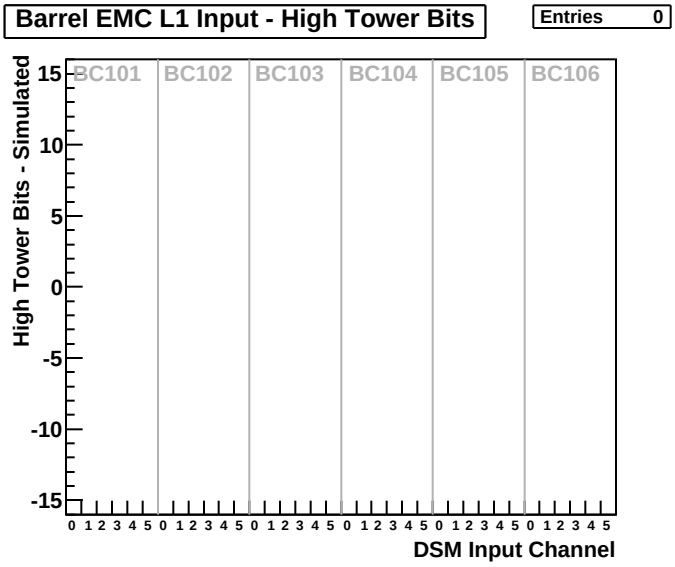

Barrel EMC L1 Input - Low Eta Sum
Entries 2.159996e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

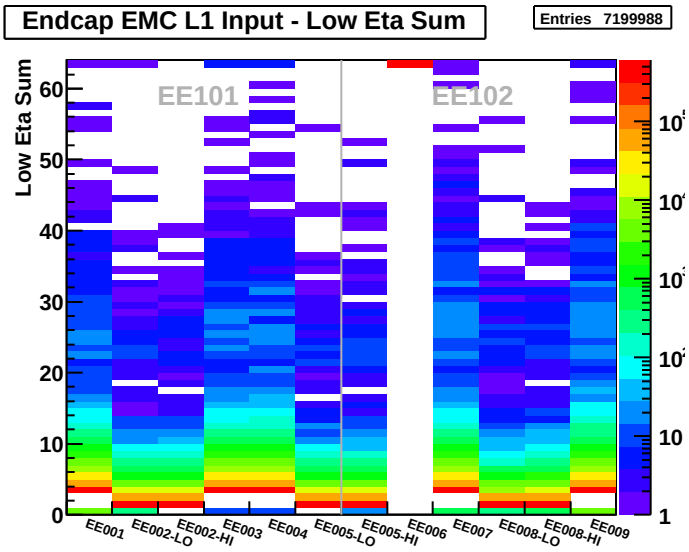

Barrel EMC L1 Input - Low Eta Sum
Entries 769
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

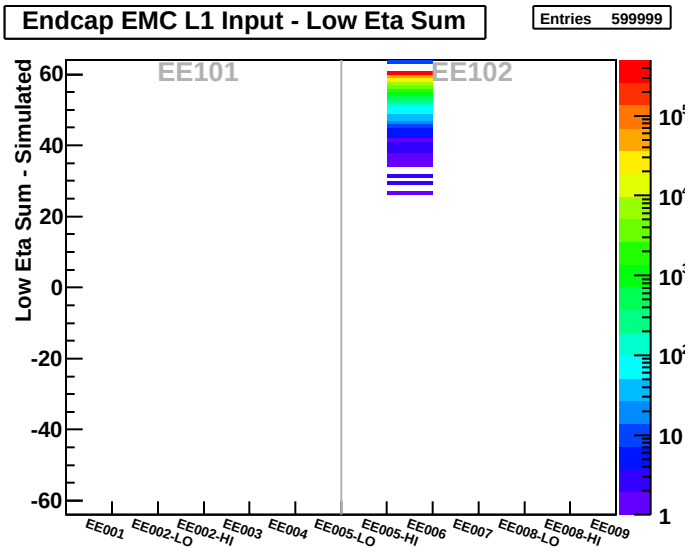

Barrel EMC L1 Input - High Eta Sum
Entries 2.159996e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

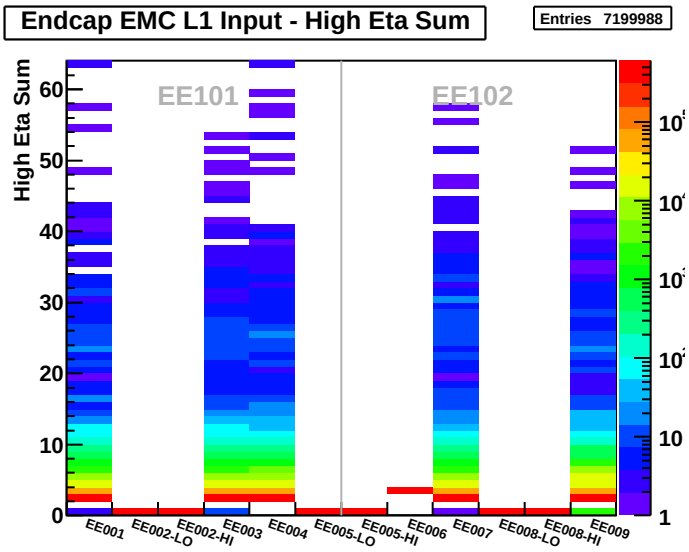

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

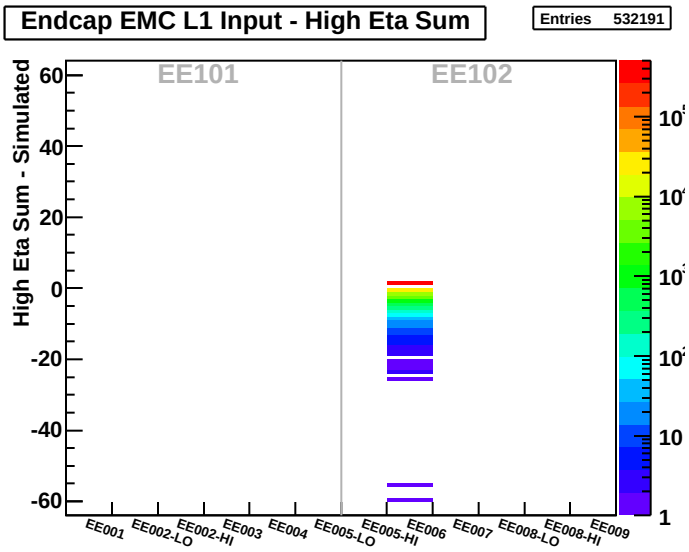

Barrel EMC L1 Input - High Tower Bits
Entries 2.159996e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

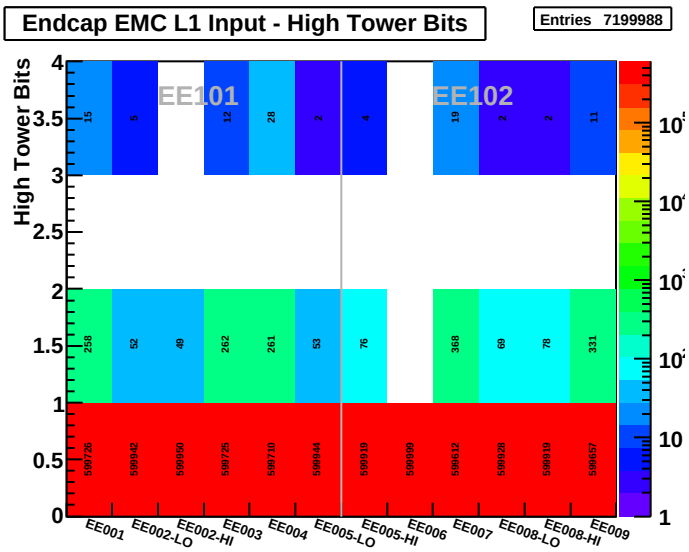

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

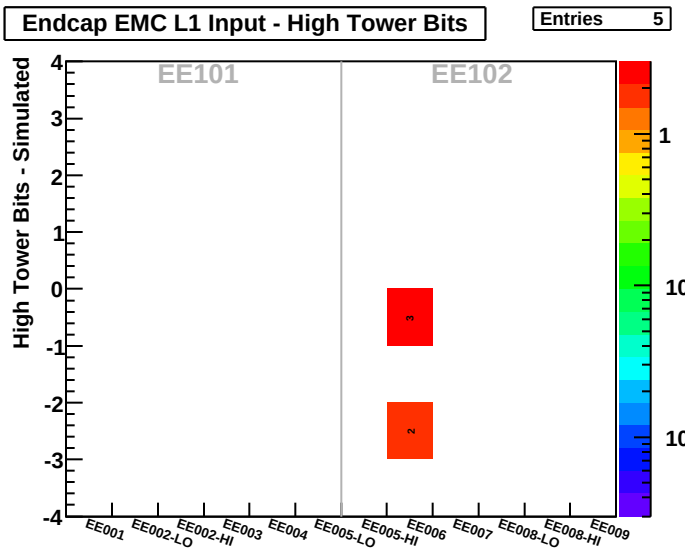

Endcap EMC L1 Input - Low Eta Sum
Entries 7199988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

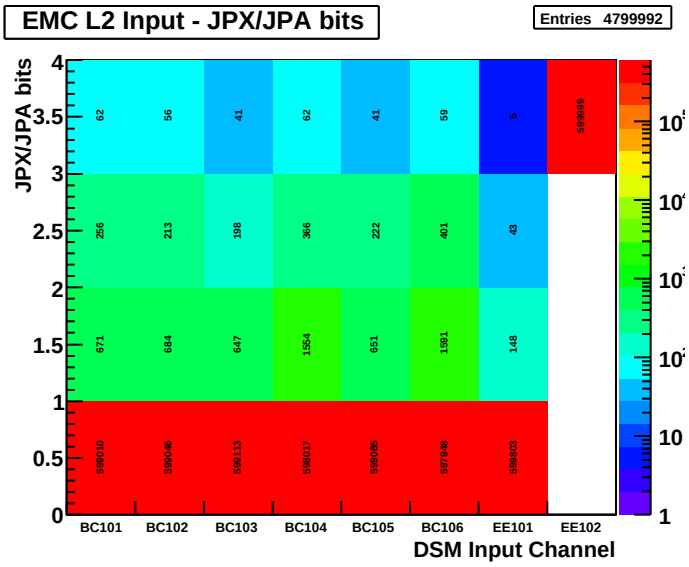

Endcap EMC L1 Input - Low Eta Sum
Entries 599999
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

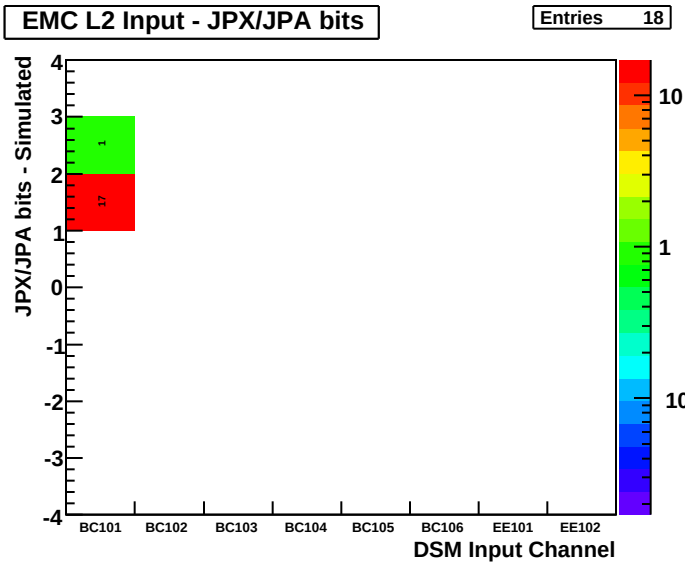

Endcap EMC L1 Input - High Eta Sum
Entries 7199988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

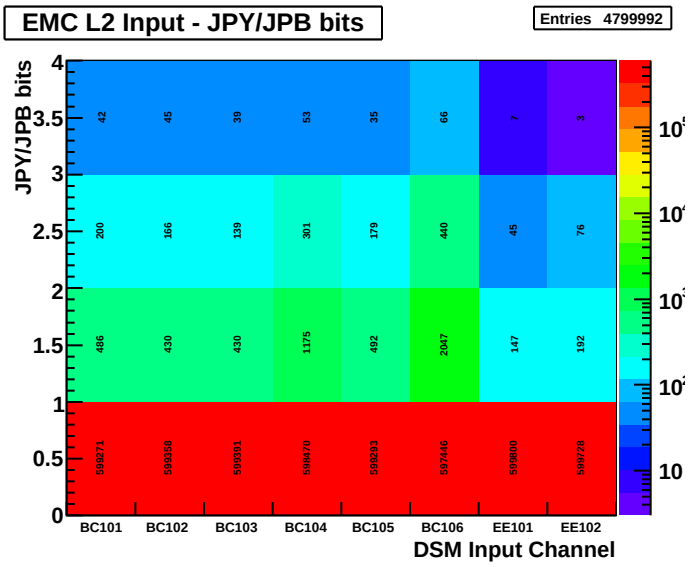

Endcap EMC L1 Input - High Eta Sum
Entries 532191
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

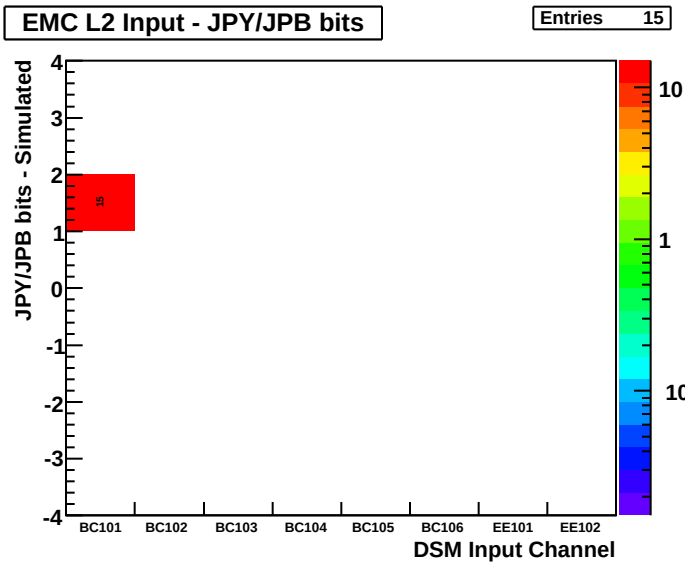

Endcap EMC L1 Input - High Tower Bits
Entries 7199988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

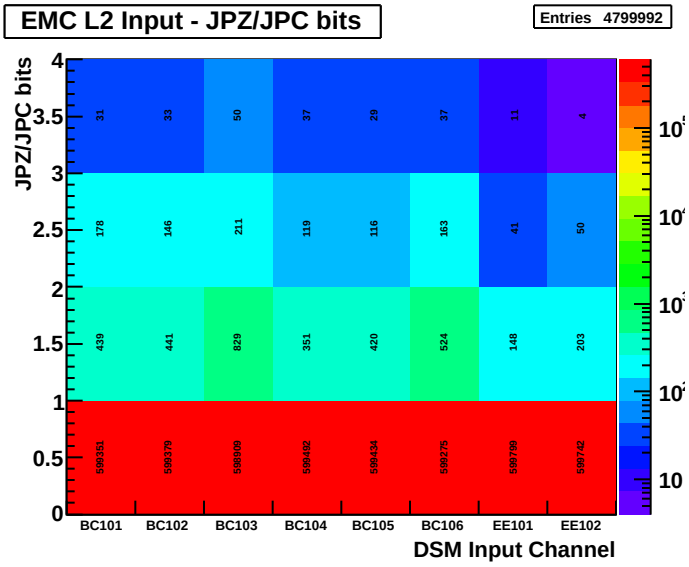

Endcap EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

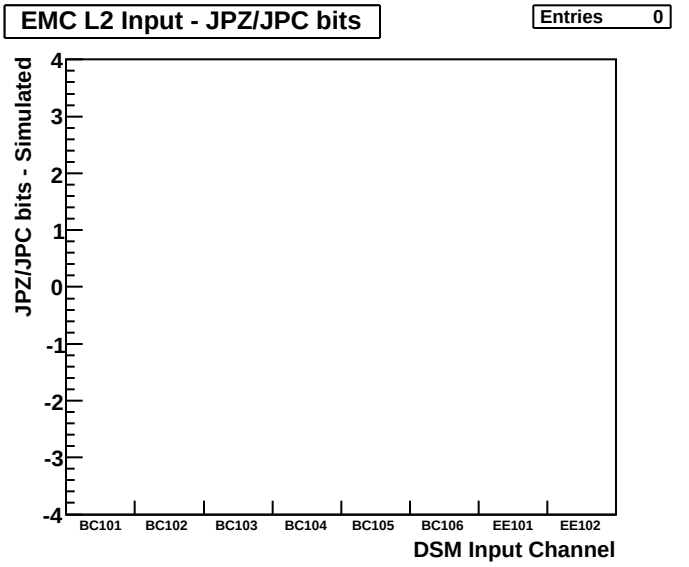

EMC L2 Input - JPX/JPA bits
Entries 4799992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
62 56 41 62 41 59 5 599999
256 213 198 366 222 401 43
671 684 647 1554 651 1591 148
599010 599046 599113 598017 599085 597948 599803

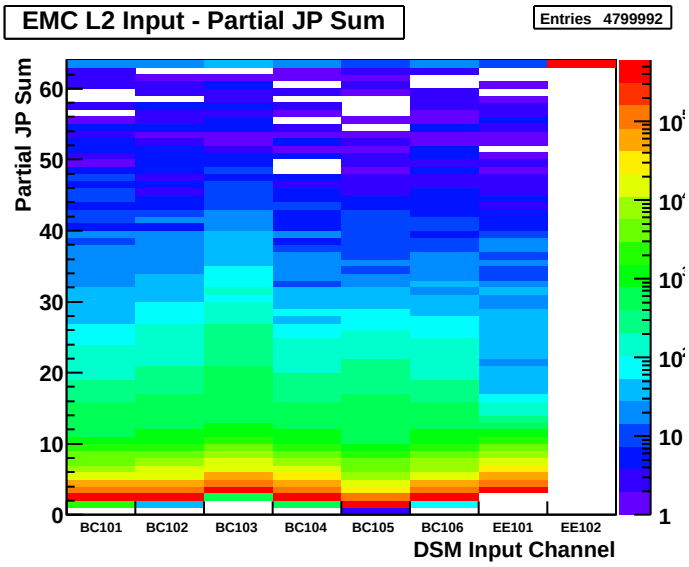

EMC L2 Input - JPX/JPA bits
Entries 18
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
17

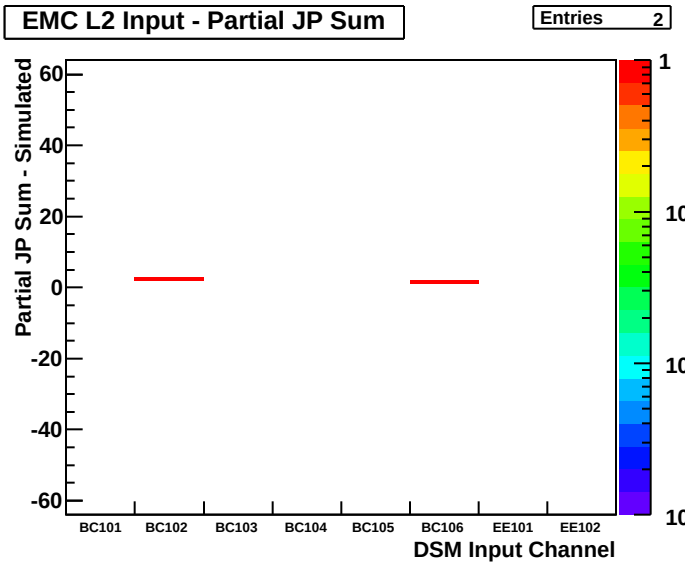

EMC L2 Input - JPY/JPB bits
Entries 4799992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
42 45 39 53 35 66 7 3
200 166 139 301 179 440 45 76
486 430 430 1175 492 2047 147 192
599271 599358 599391 599470 599293 597446 599800 599728

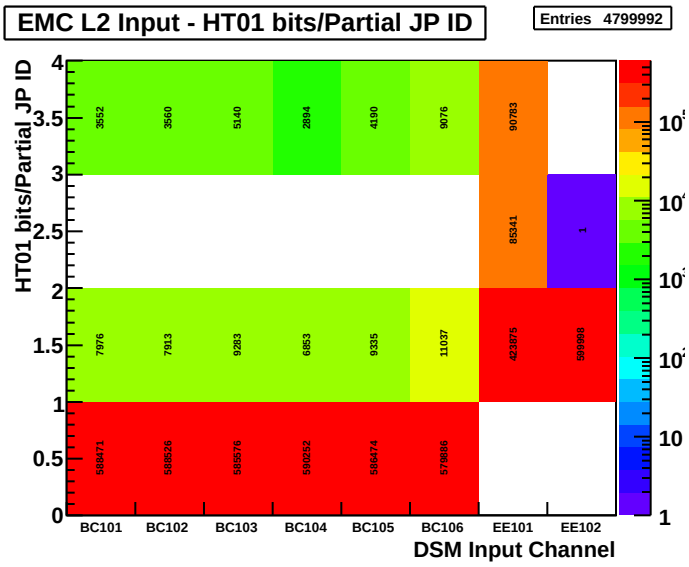

EMC L2 Input - JPY/JPB bits
Entries 15
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
15

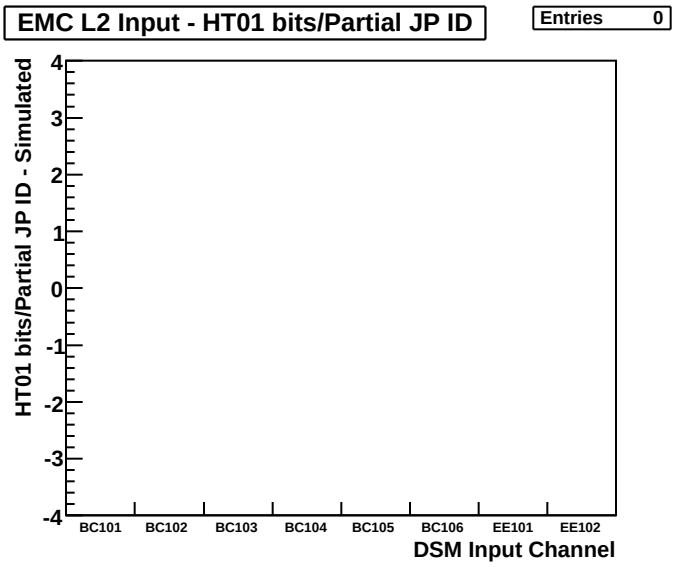

EMC L2 Input - JPZ/JPC bits
Entries 4799992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
31 33 50 37 29 37 11 4
178 146 211 119 116 163 41 50
439 441 829 351 420 524 148 203
599351 599379 598909 599492 599434 599275 599799 599742

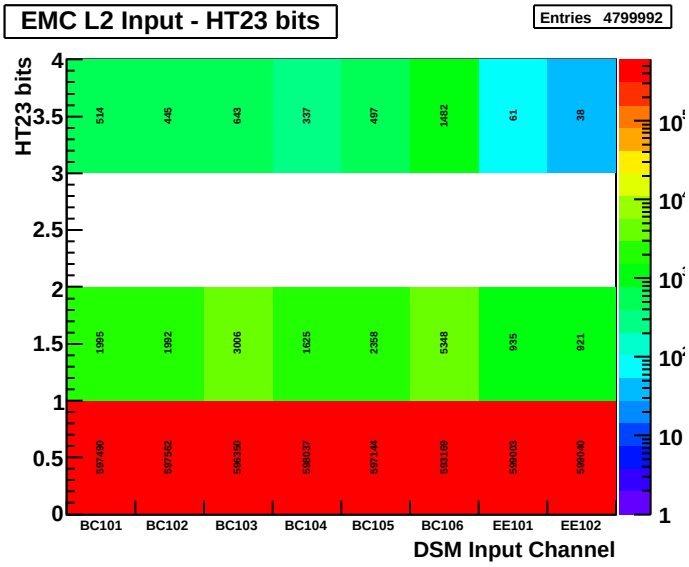

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

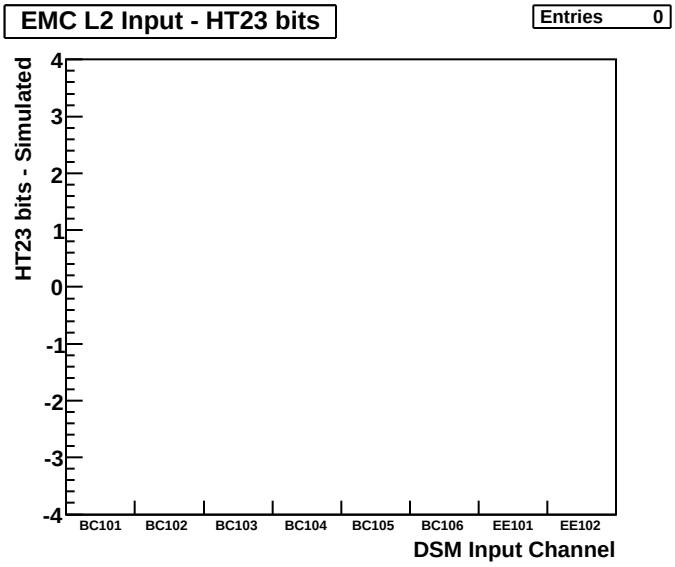

EMC L2 Input - Partial JP Sum
Entries 4799992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

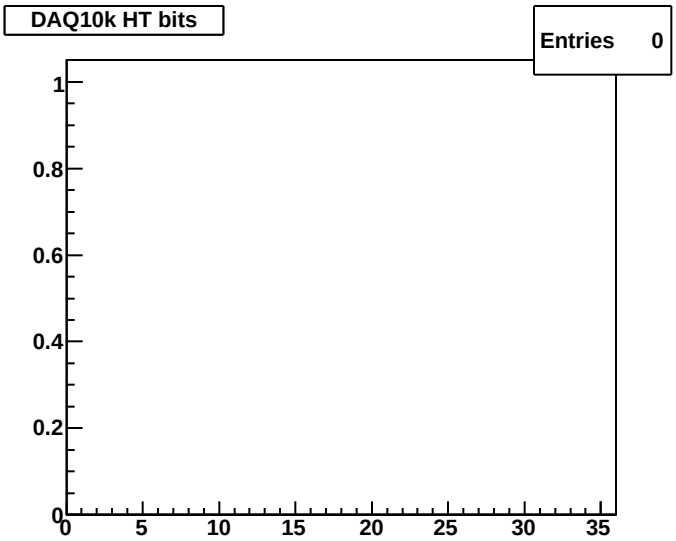

EMC L2 Input - Partial JP Sum
Entries 2
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

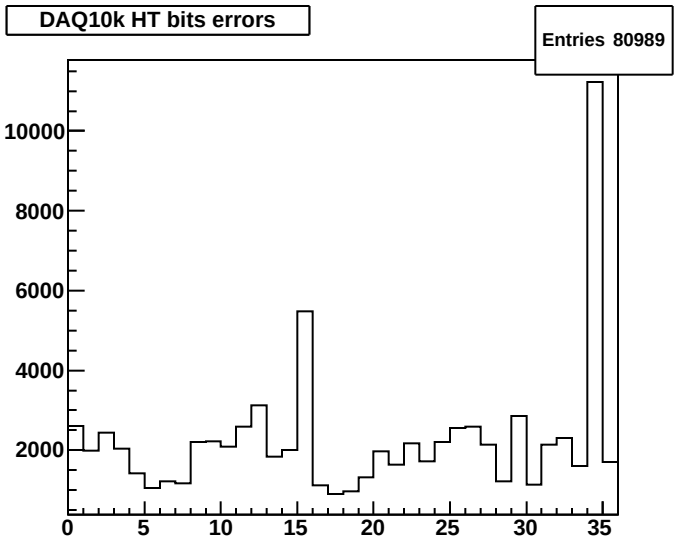

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4799992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

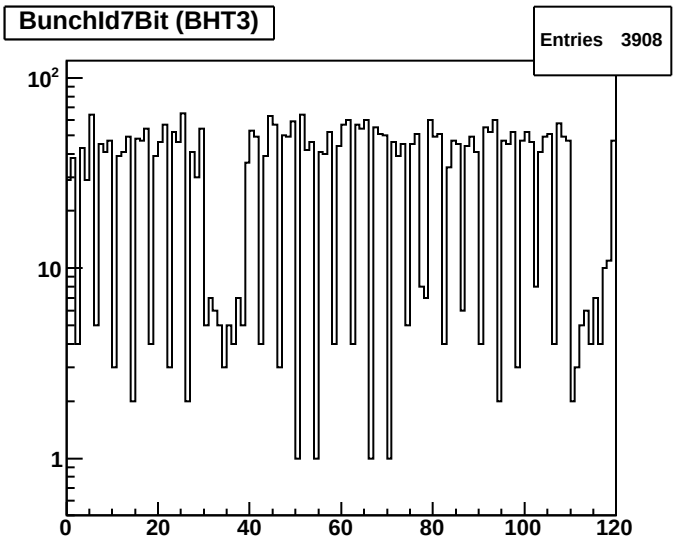

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

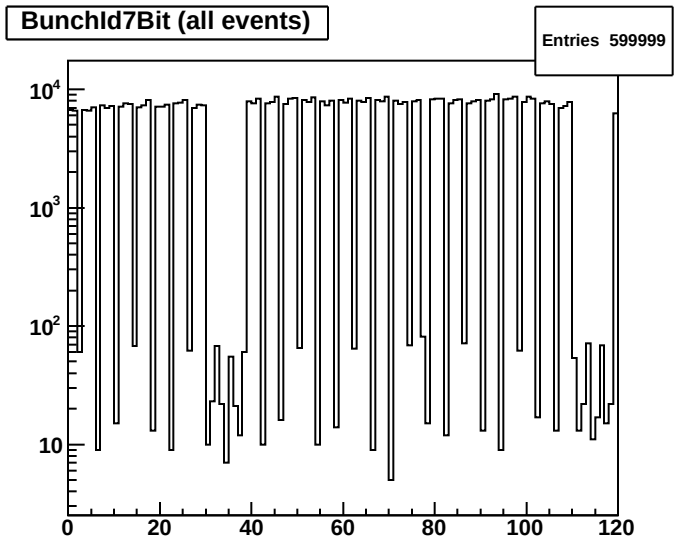

EMC L2 Input - HT23 bits
Entries 4799992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

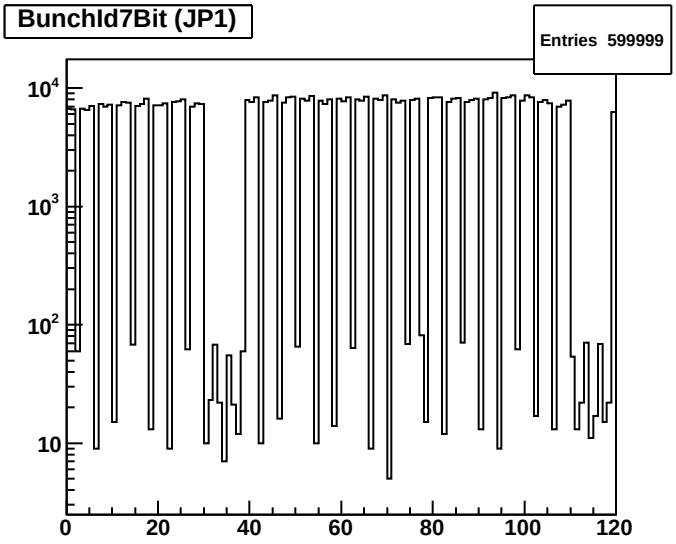

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

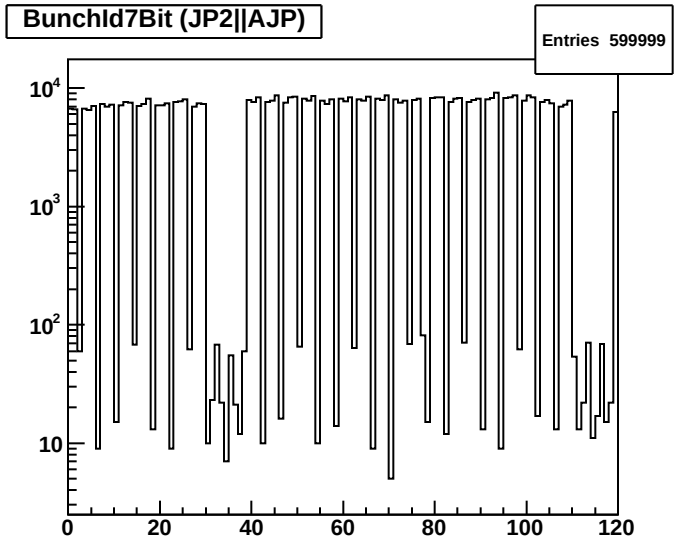

DAQ10k HT bits
Entries 0

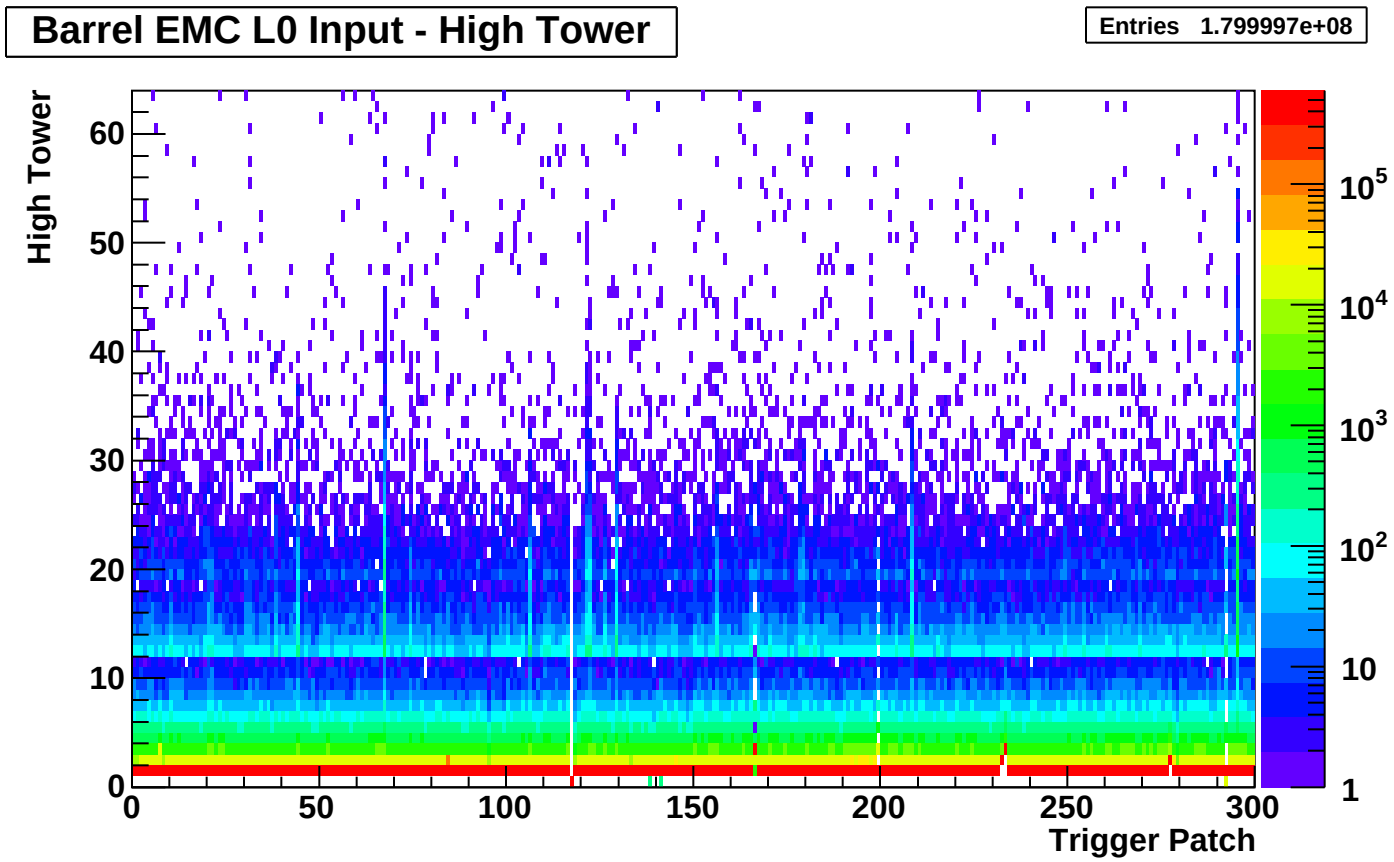

DAQ10k HT bits errors
Entries 80989

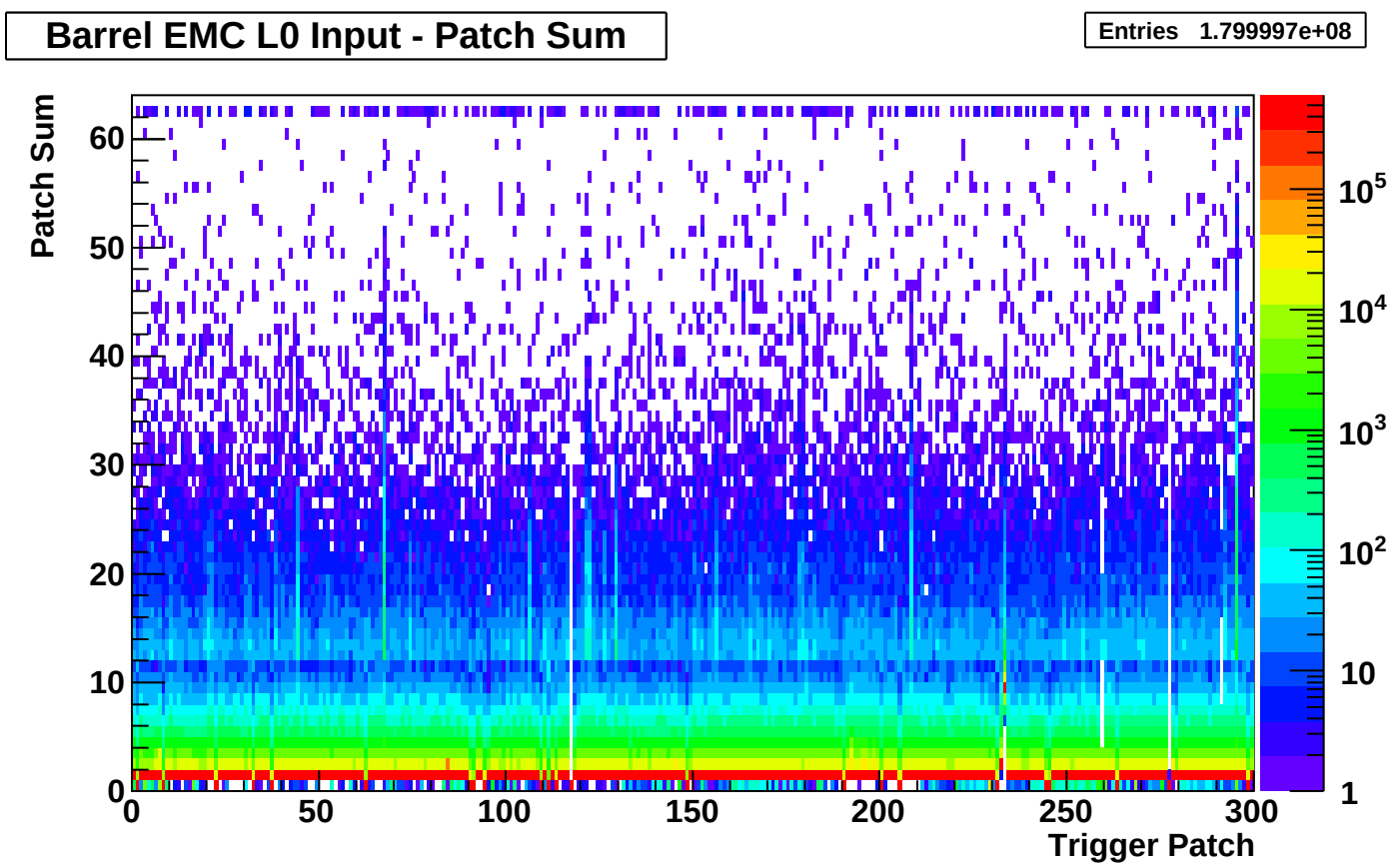

BunchId7Bit (BHT3)
Entries 3908

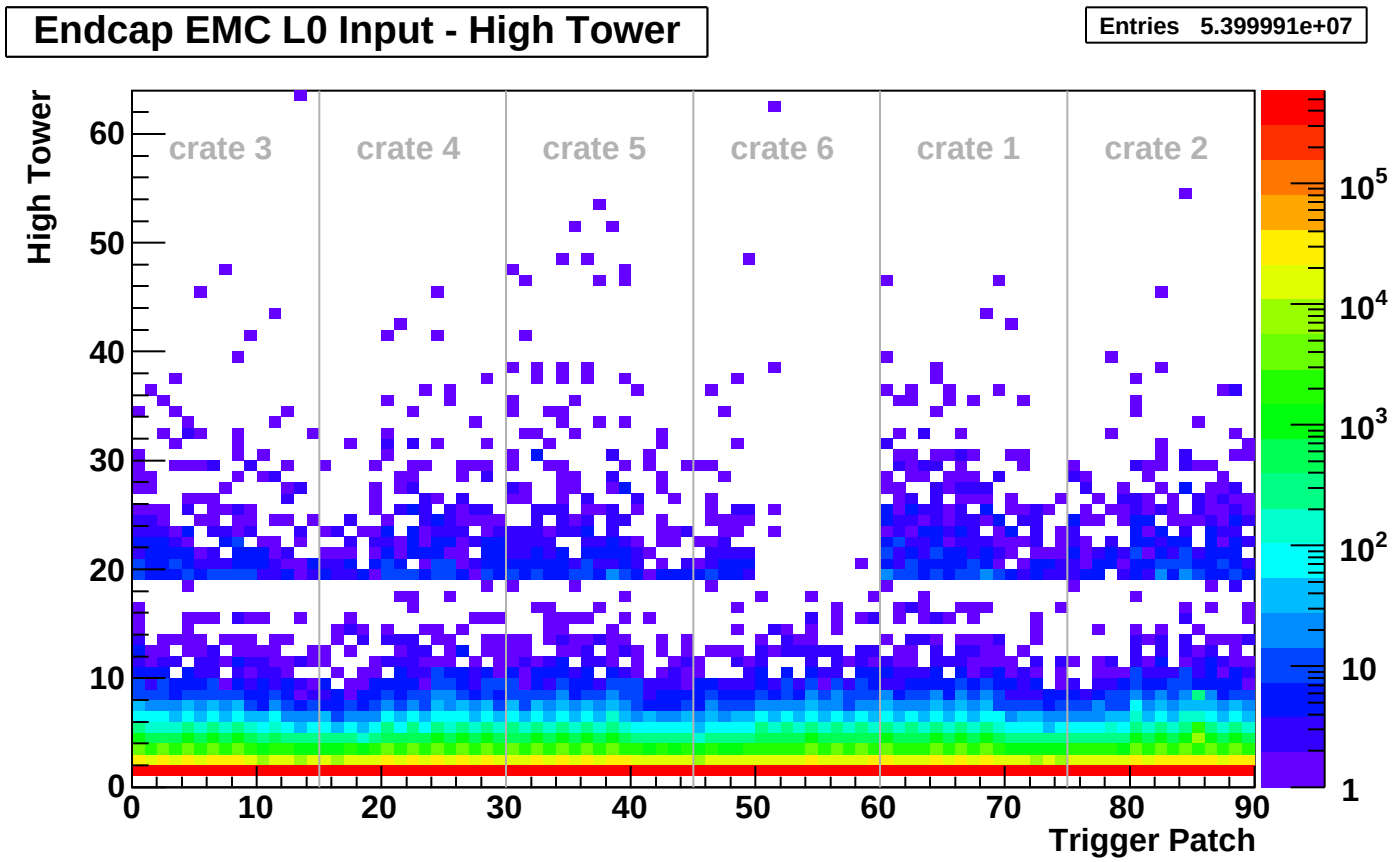

BunchId7Bit (all events)
Entries 599999

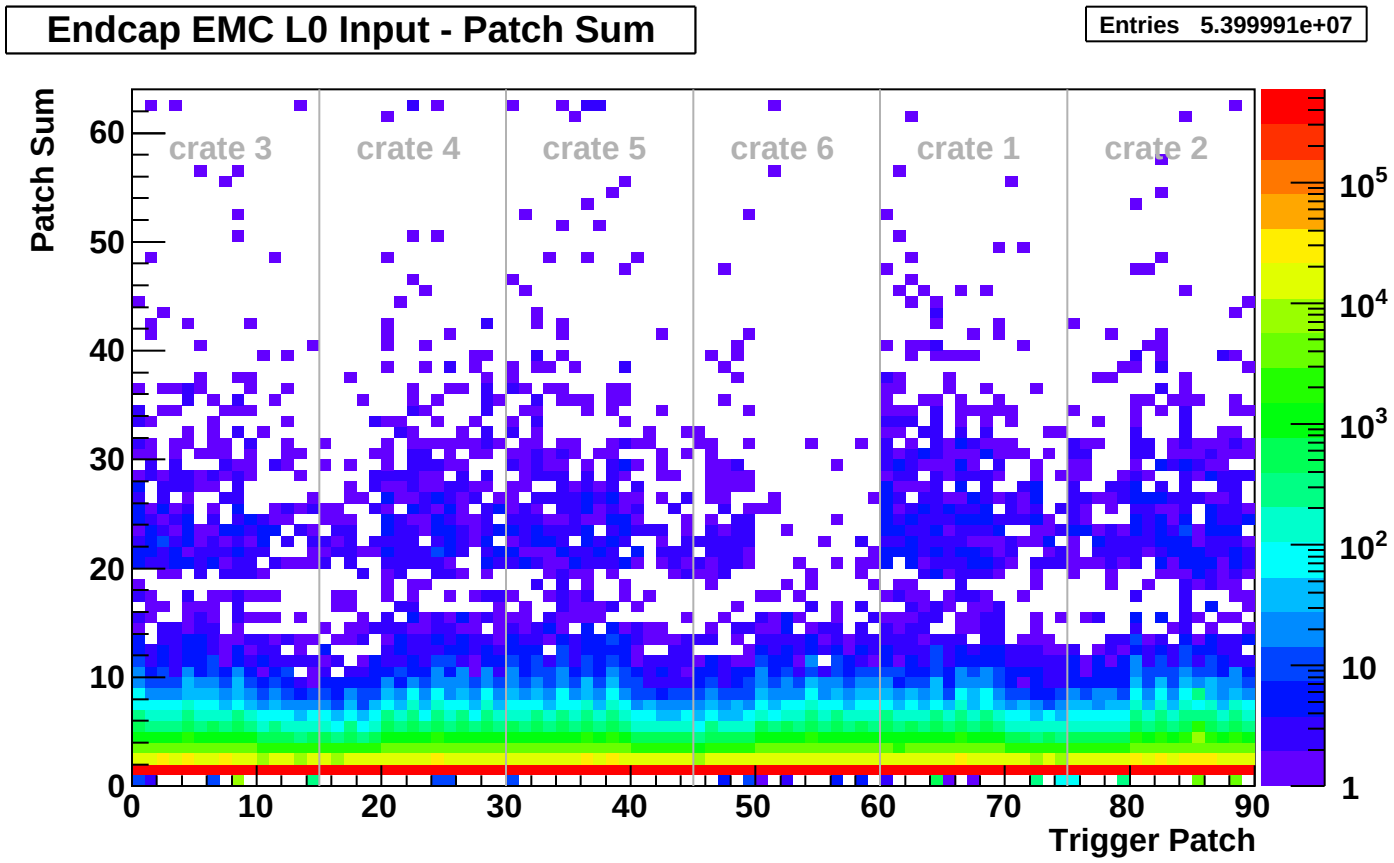

BunchId7Bit (JP1)
Entries 599999

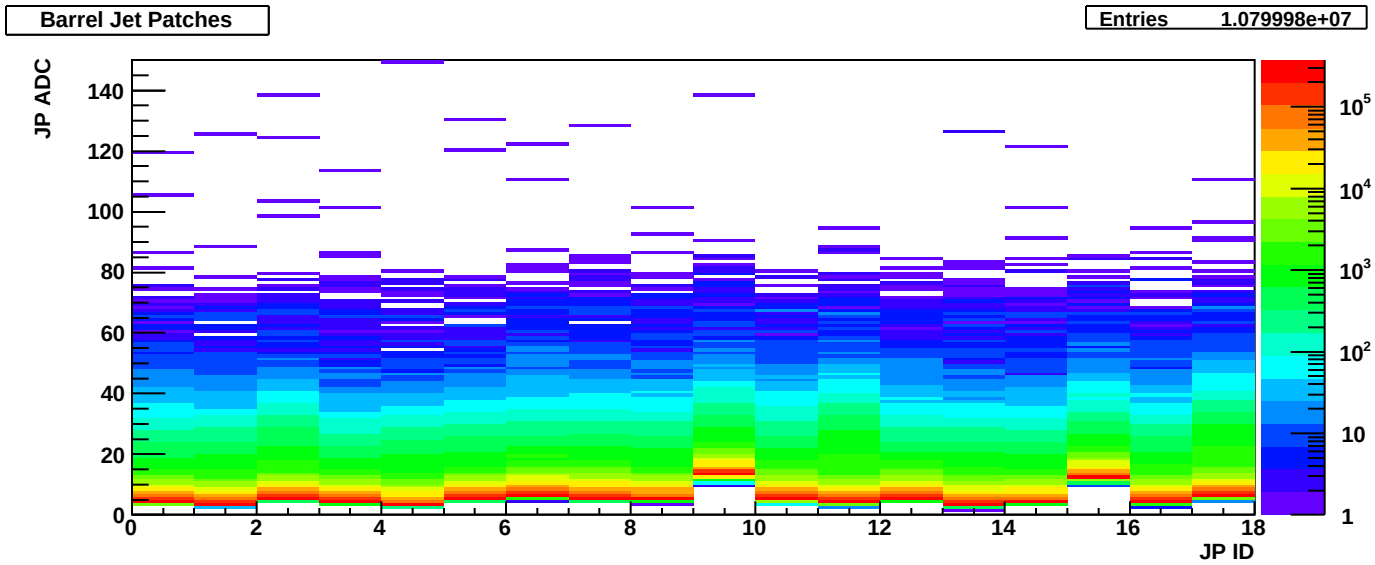

BunchId7Bit (JP2||AJP)
Entries 599999

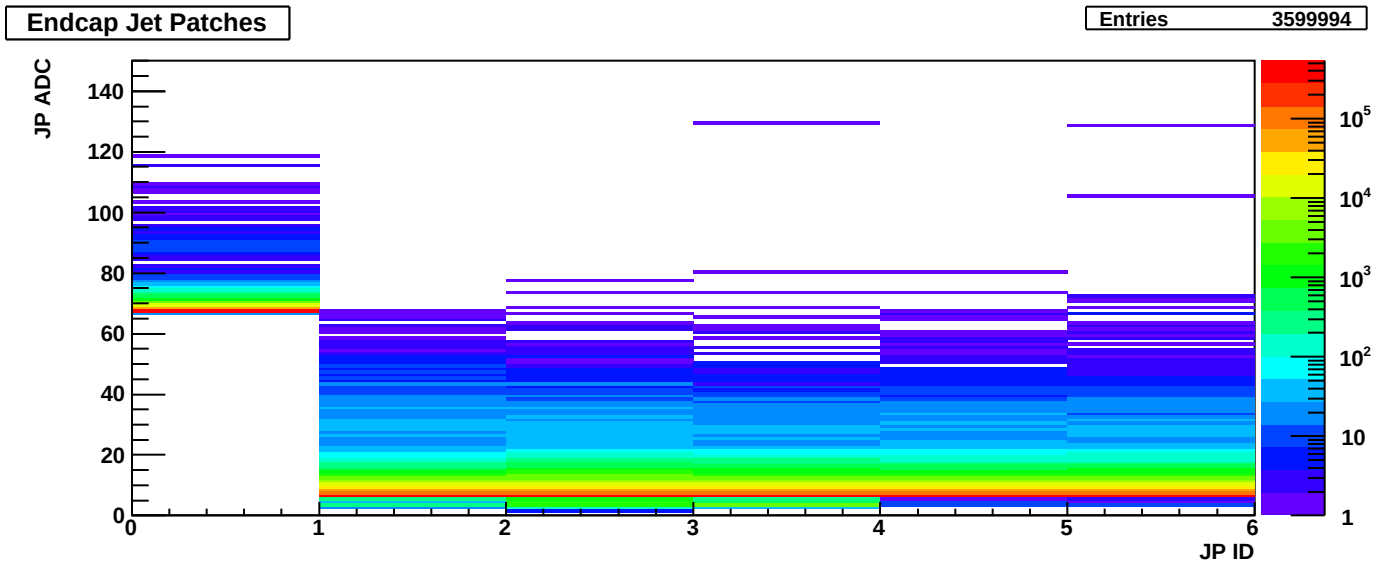

Barrel EMC L0 Input - High Tower
Entries 1.799997e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

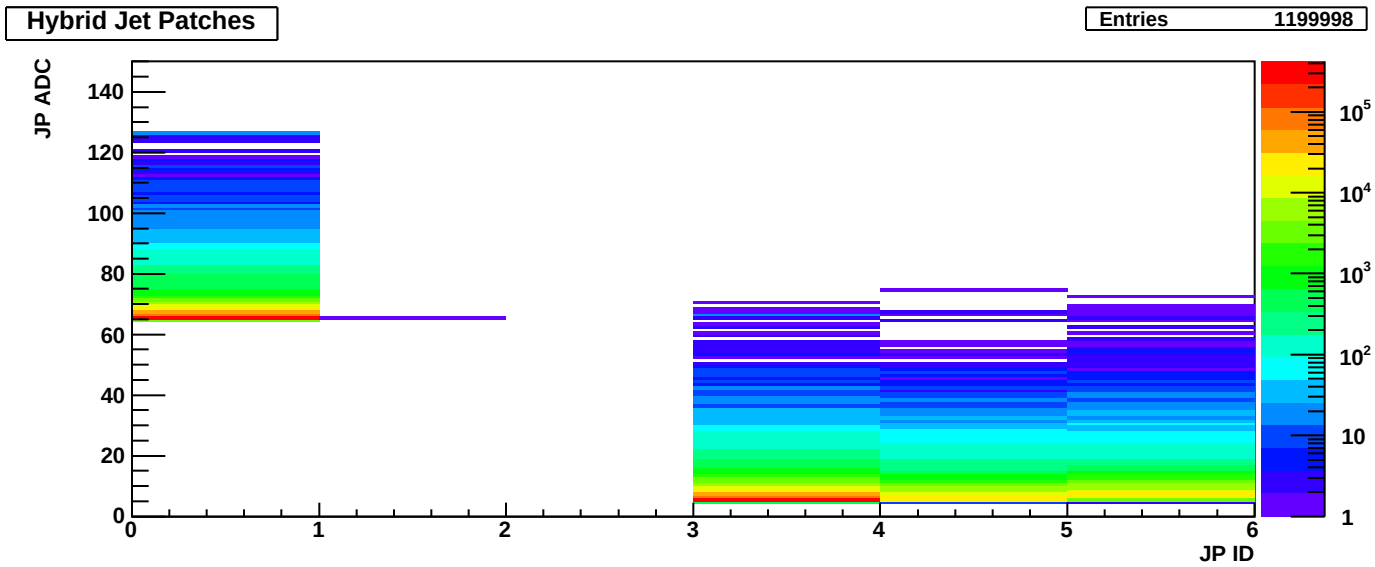

Barrel EMC L0 Input - Patch Sum
Entries 1.799997e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

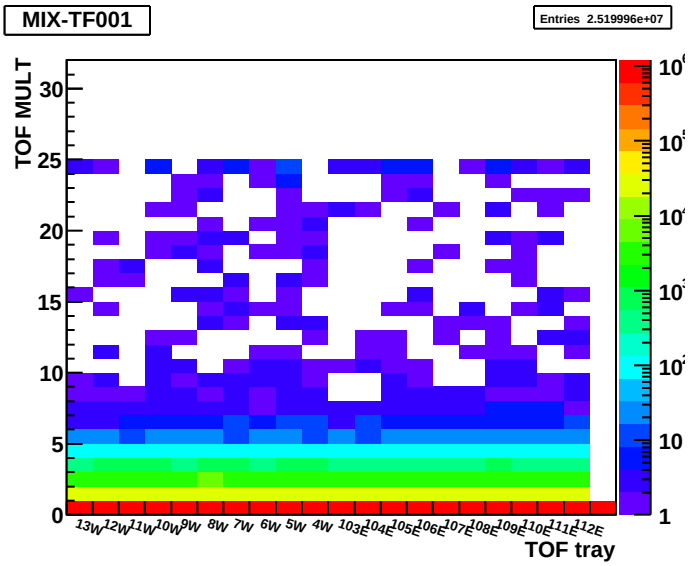

Endcap EMC L0 Input - High Tower
Entries 5.399991e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

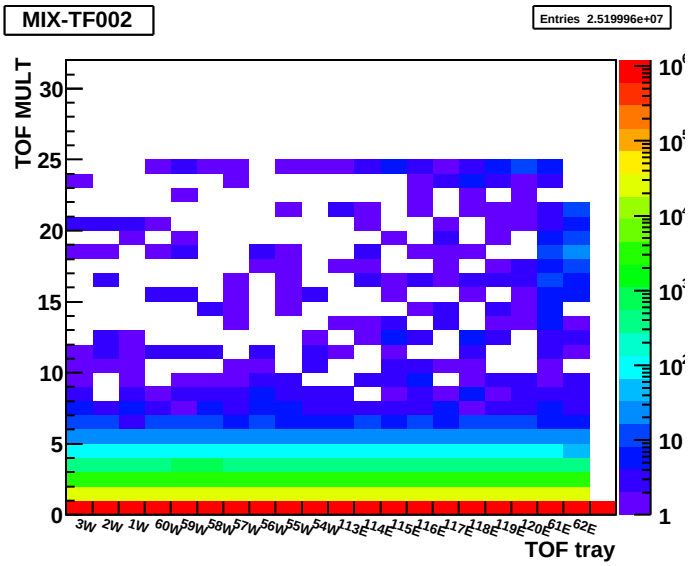

Endcap EMC L0 Input - Patch Sum
Entries 5.399991e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

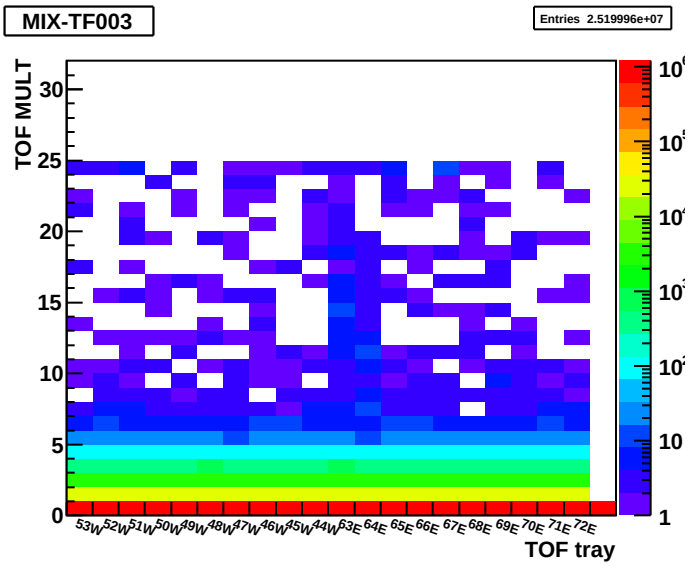

Barrel Jet Patches
Entries 1.079998e+07
JP ADC
JP ID

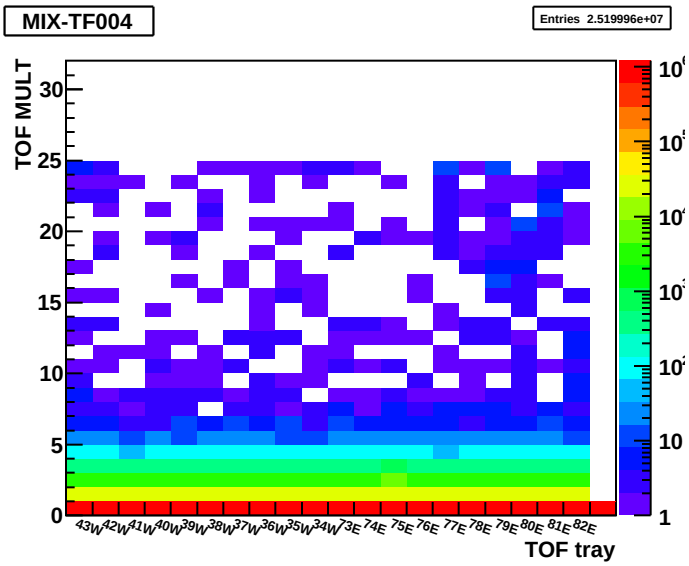

Endcap Jet Patches
Entries 3599994
JP ADC
JP ID

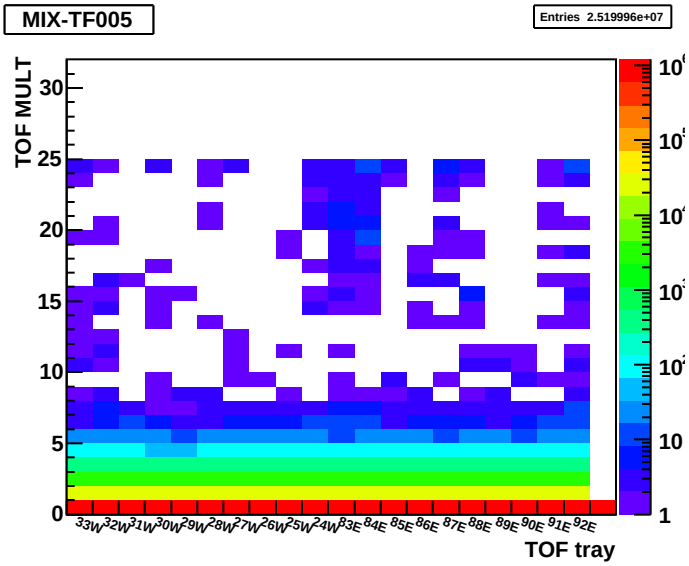

Hybrid Jet Patches
Entries 1199998
JP ADC
JP ID

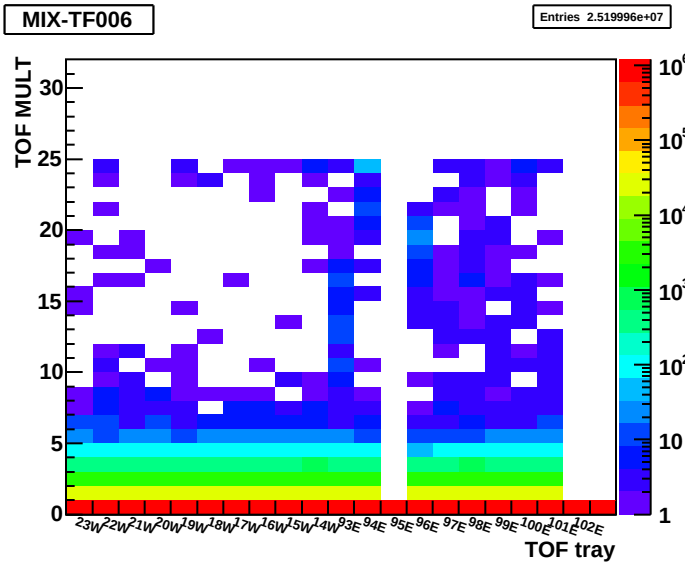

MIX-TF001
Entries 2.519996e+07
TOF MULT
TOF tray

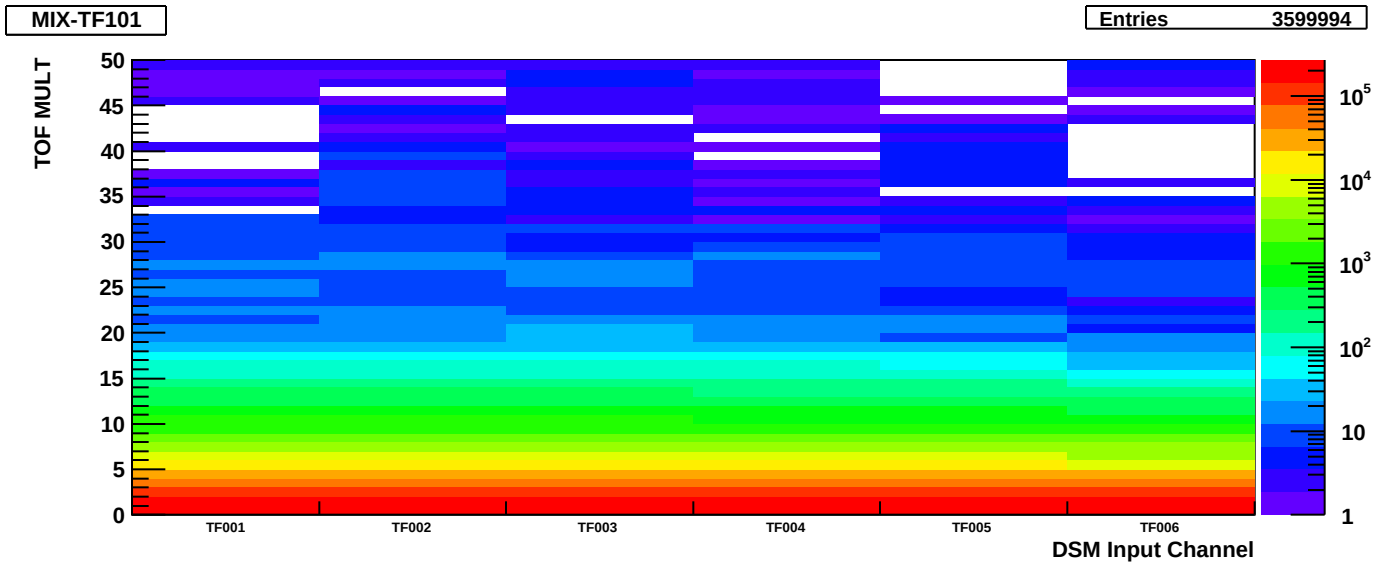

MIX-TF002
Entries 2.519996e+07
TOF MULT
TOF tray

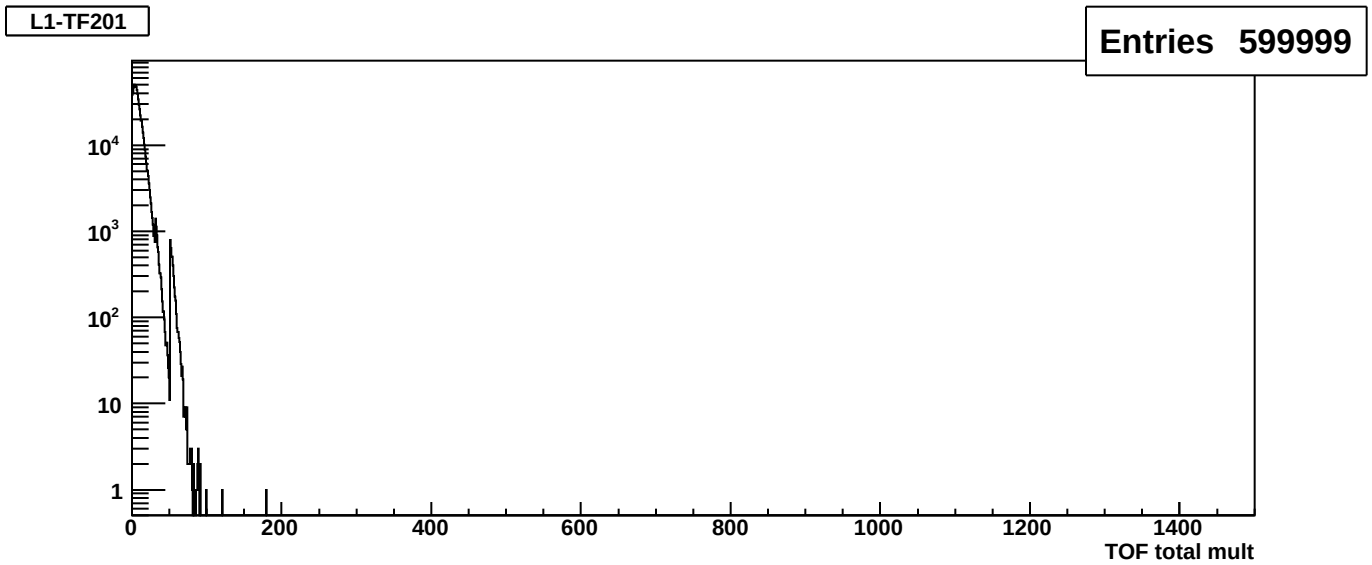

MIX-TF003
Entries 2.519996e+07
TOF MULT
TOF tray

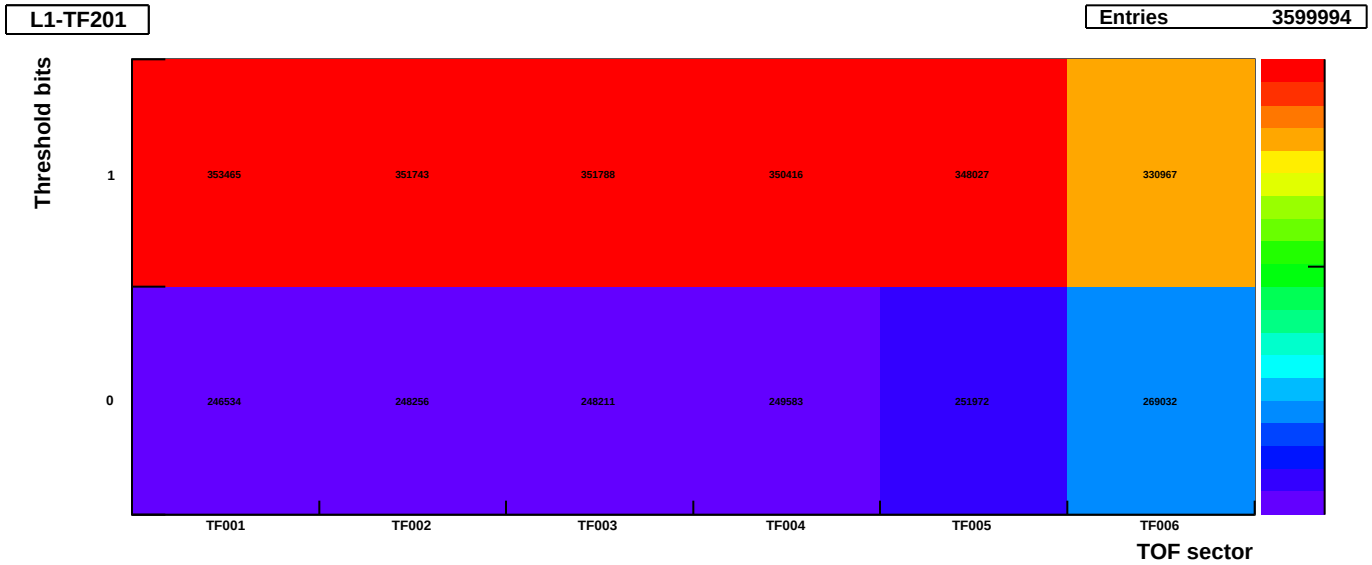

MIX-TF004
Entries 2.519996e+07
TOF MULT
TOF tray

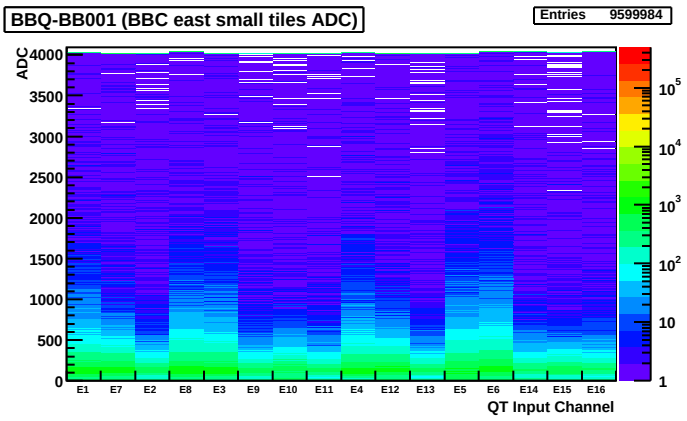

MIX-TF005
Entries 2.519996e+07
TOF MULT
TOF tray

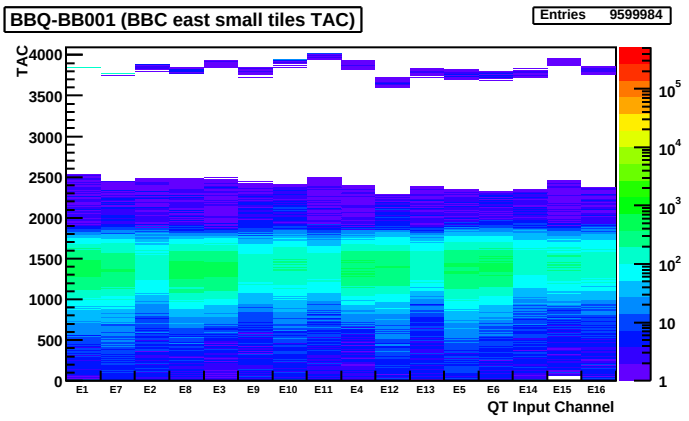

MIX-TF006
Entries 2.519996e+07
TOF MULT
TOF tray

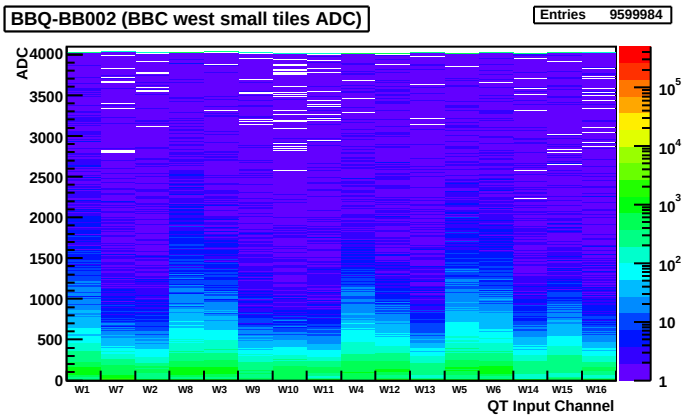

MIX-TF101
Entries 3599994
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

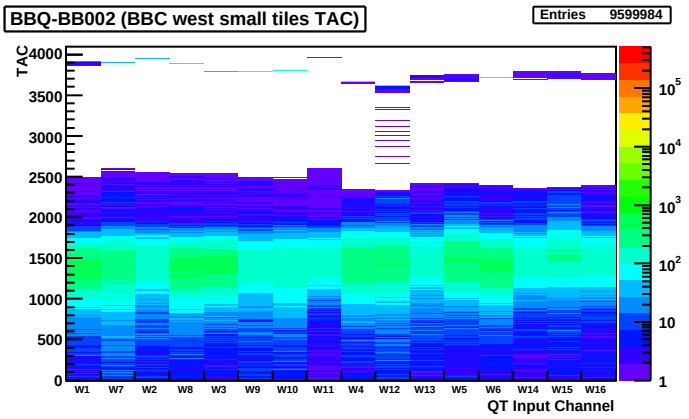

L1-TF201
Entries 599999
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

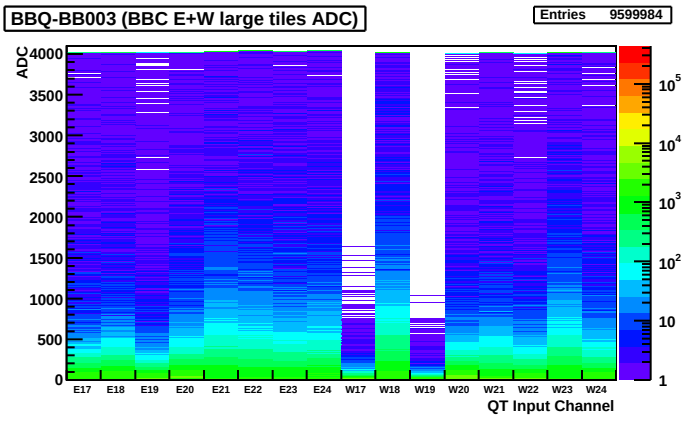

L1-TF201
Entries 3599994
Threshold bits
1
0
353465
351743
351788
350416
348027
330967
246534
248256
248211
249583
251972
269032
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

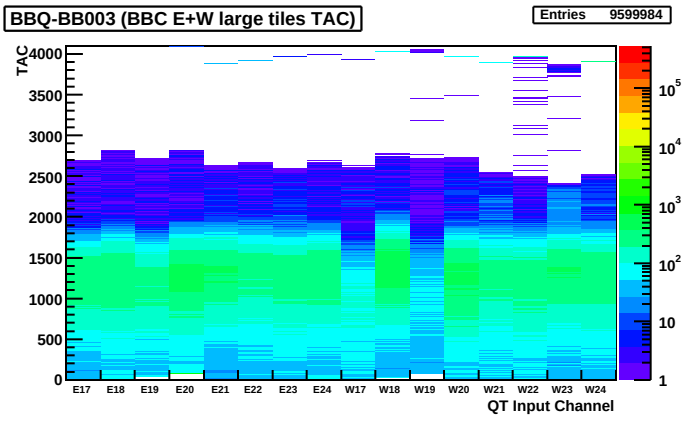

BBQ-BB001 (BBC east small tiles ADC)
Entries 9599984
ADC
QT Input Channel

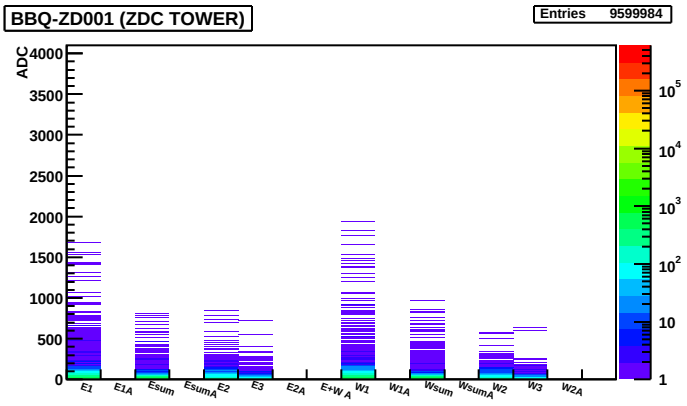

BBQ-BB001 (BBC east small tiles TAC)
Entries 9599984
TAC
QT Input Channel

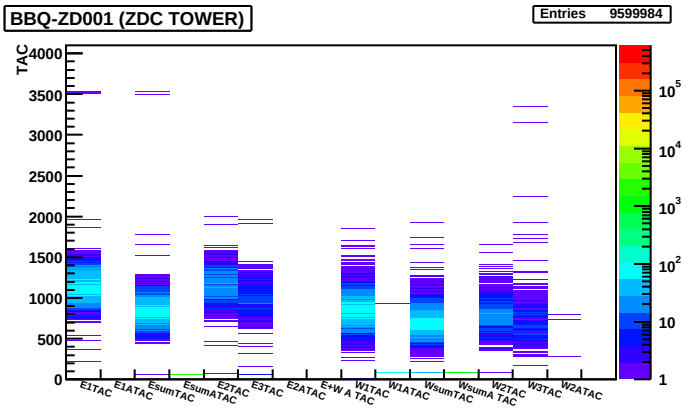

BBQ-BB002 (BBC west small tiles ADC)
Entries 9599984
ADC
QT Input Channel

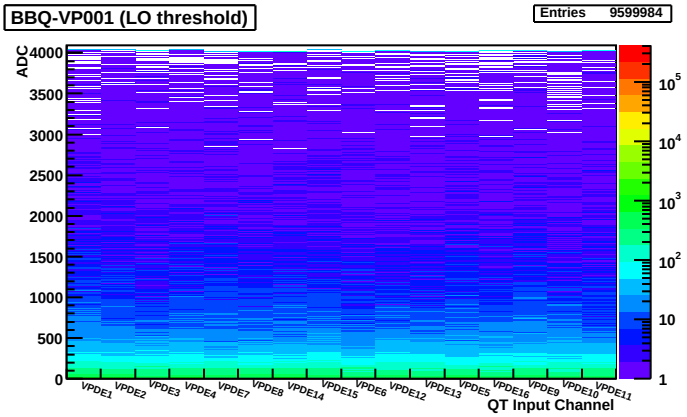

BBQ-BB002 (BBC west small tiles TAC)
Entries 9599984
TAC
QT Input Channel

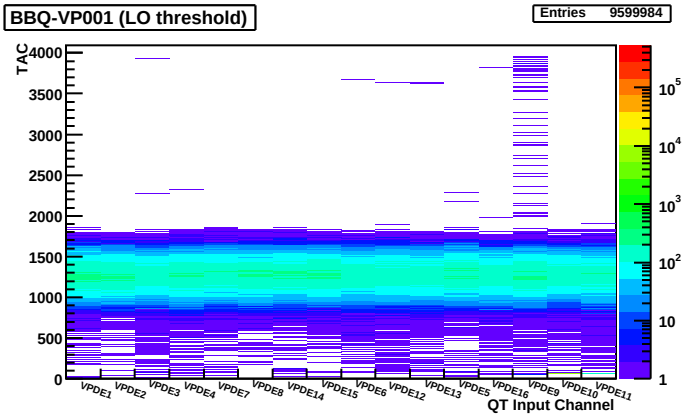

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9599984
ADC
QT Input Channel

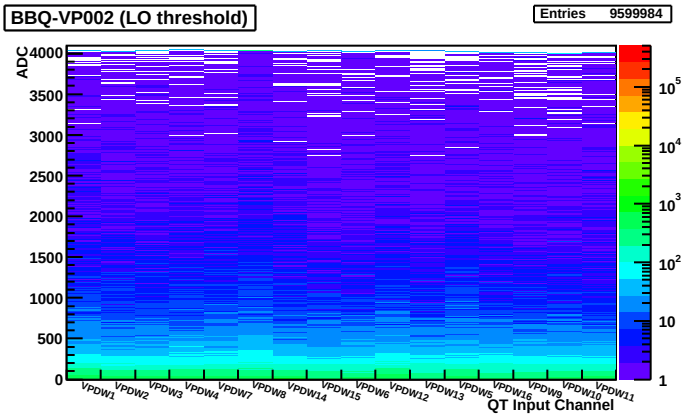

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9599984
TAC
QT Input Channel

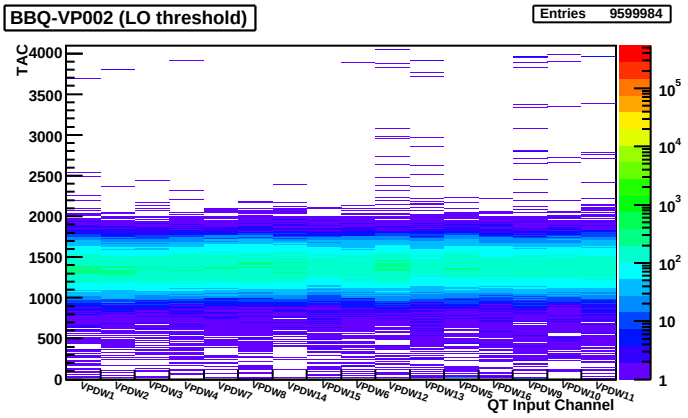

BBQ-ZD001 (ZDC TOWER)
Entries 9599984
ADC

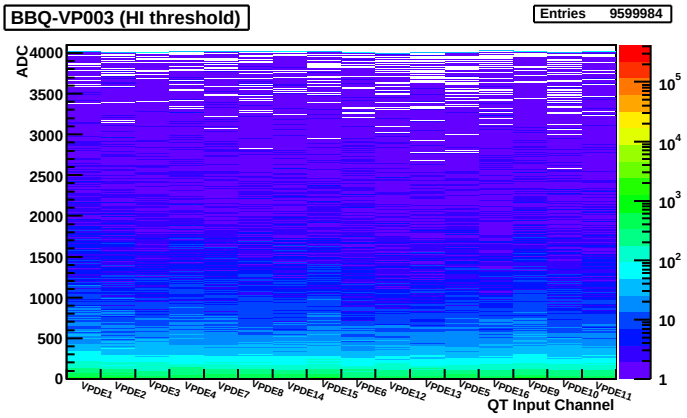

BBQ-ZD001 (ZDC TOWER)
Entries 9599984
TAC

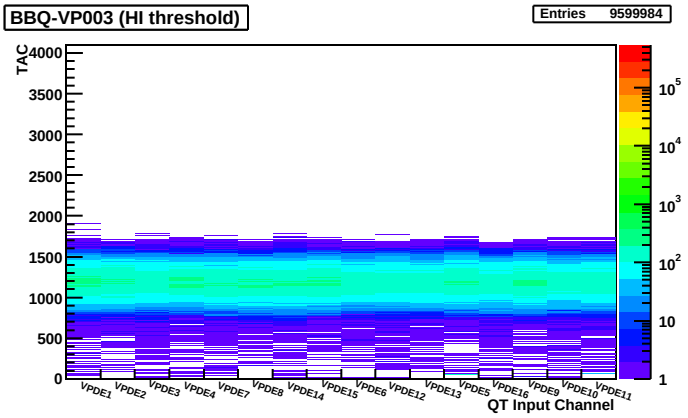

BBQ-VP001 (LO threshold)
Entries 9599984
ADC
QT Input Channel

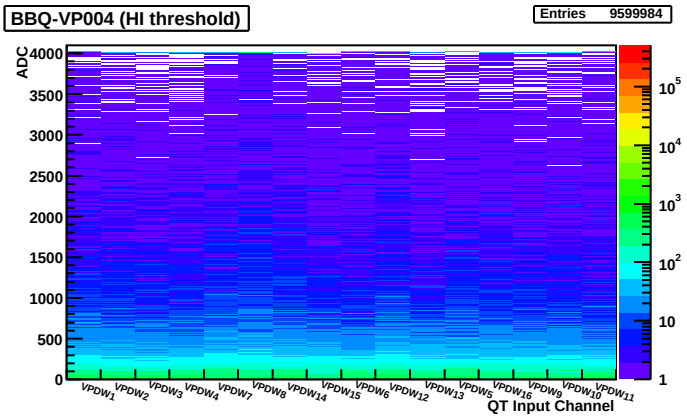

BBQ-VP001 (LO threshold)
Entries 9599984
TAC
QT Input Channel

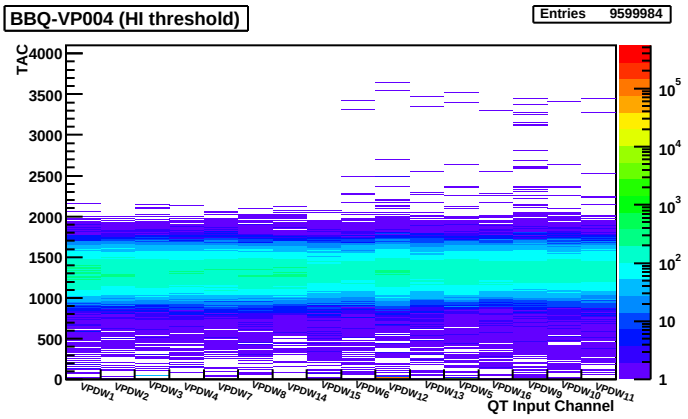

BBQ-VP002 (LO threshold)
Entries 9599984
ADC
QT Input Channel

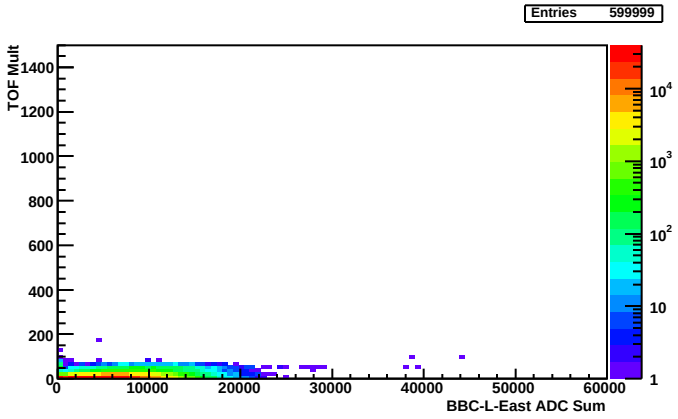

BBQ-VP002 (LO threshold)
Entries 9599984
TAC
QT Input Channel

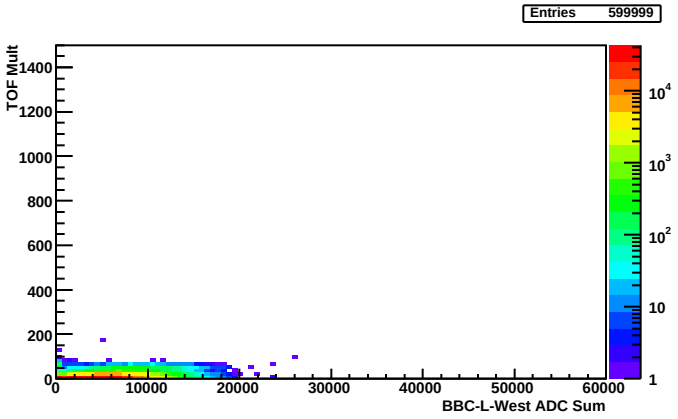

BBQ-VP003 (HI threshold)
Entries 9599984
ADC
QT Input Channel

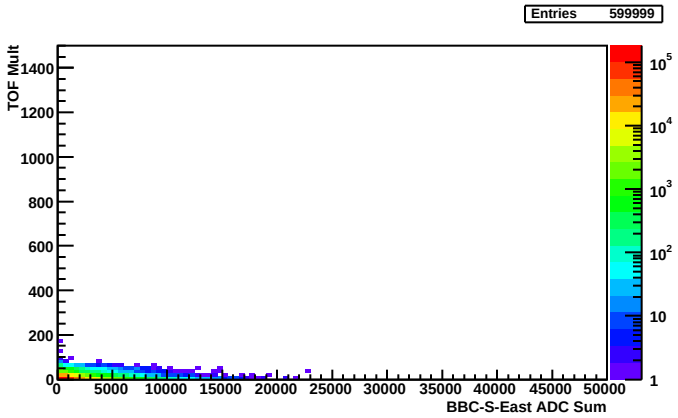

BBQ-VP003 (HI threshold)
Entries 9599984
TAC
QT Input Channel

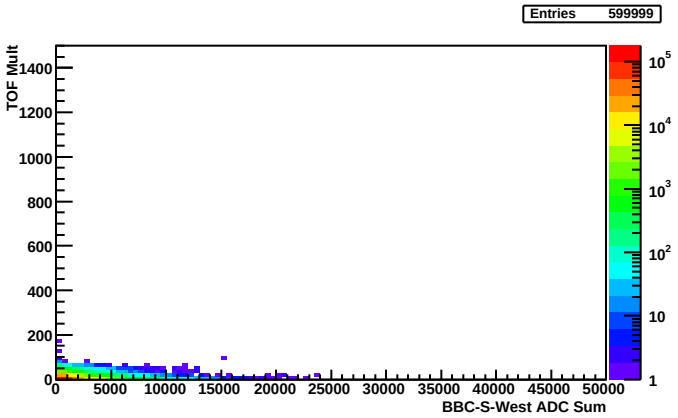

BBQ-VP004 (HI threshold)
Entries 9599984
ADC
QT Input Channel

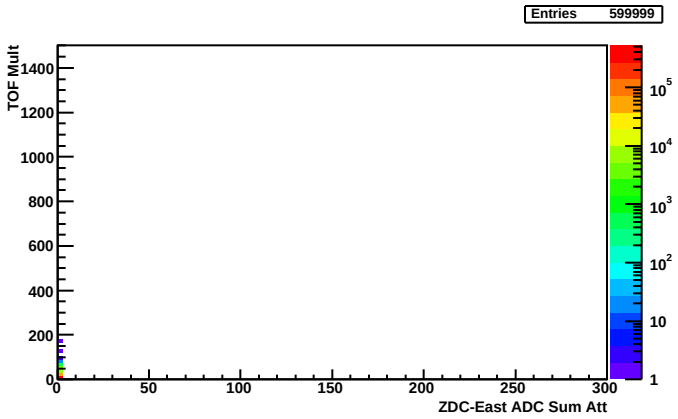

BBQ-VP004 (HI threshold)
Entries 9599984
TAC
QT Input Channel

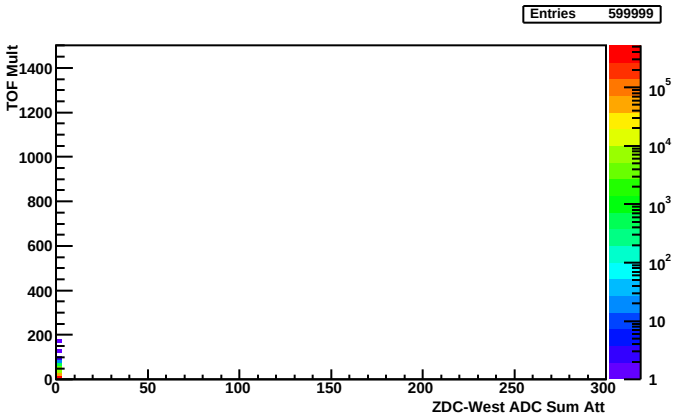

Entries 599999
TOF Mult
BBC-L-East ADC Sum

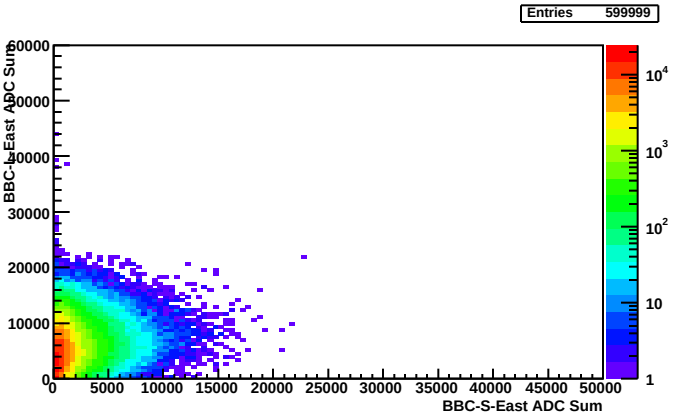

Entries 599999
TOF Mult
BBC-L-West ADC Sum

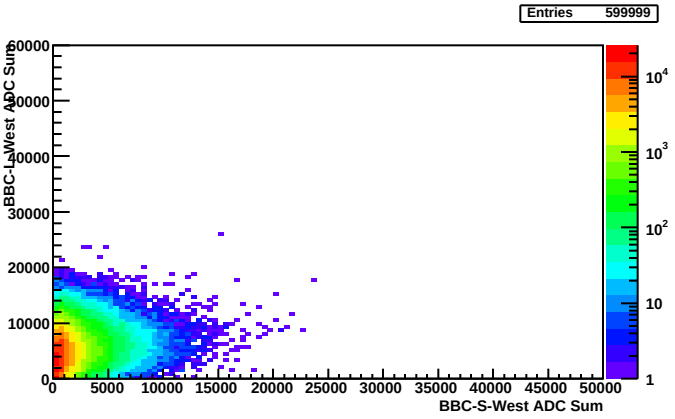

Entries 599999
TOF Mult
BBC-S-East ADC Sum

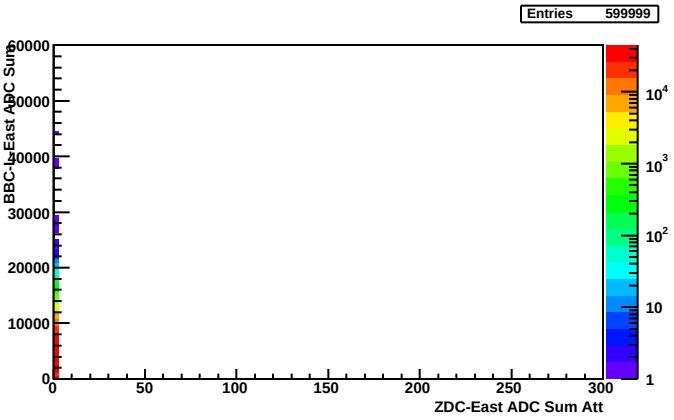

Entries 599999
TOF Mult
BBC-S-West ADC Sum

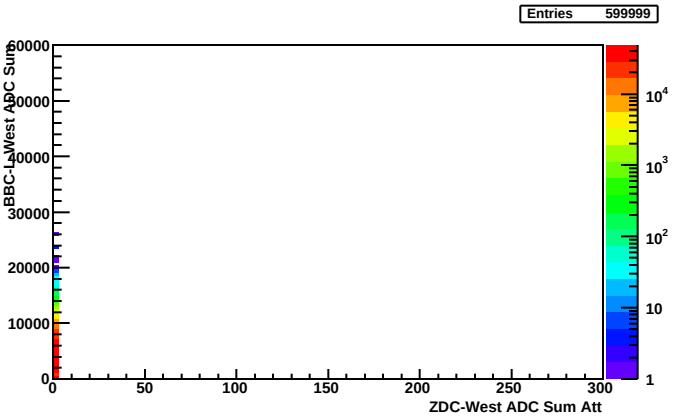

Entries 599999
TOF Mult
ZDC-East ADC Sum Att

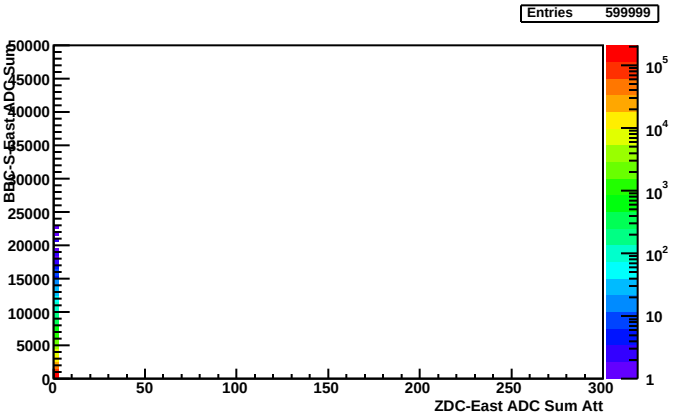

Entries 599999
TOF Mult
ZDC-West ADC Sum Att

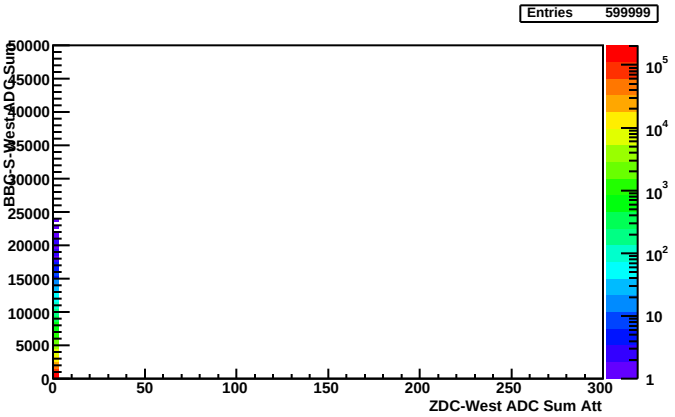

Entries 599999
BBC-L-East ADC Sum
BBC-S-East ADC Sum

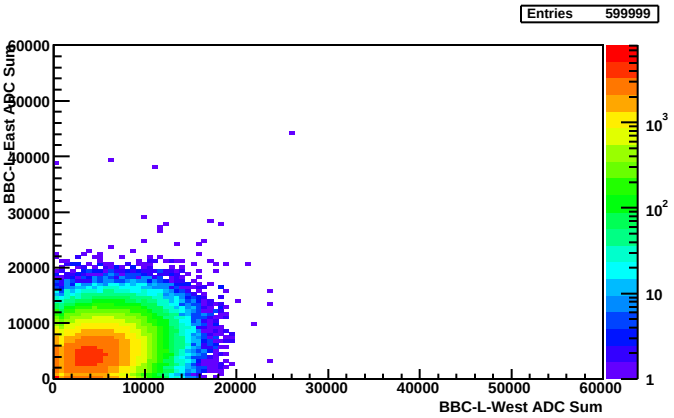

Entries 599999
BBC-L-West ADC Sum
BBC-S-West ADC Sum

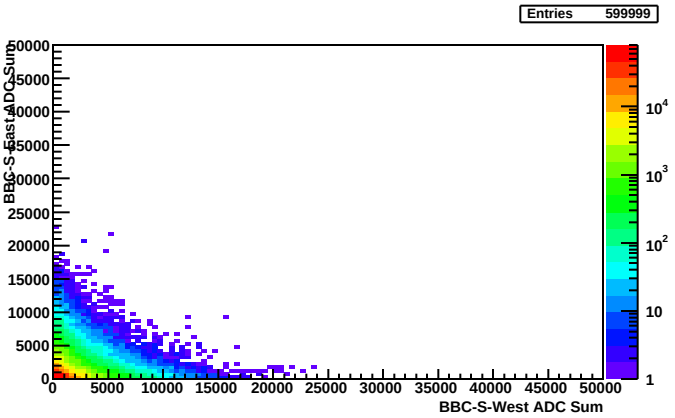

Entries 599999
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

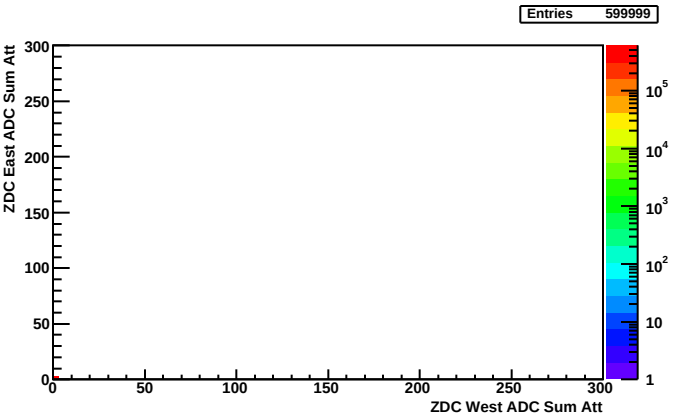

Entries 599999
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

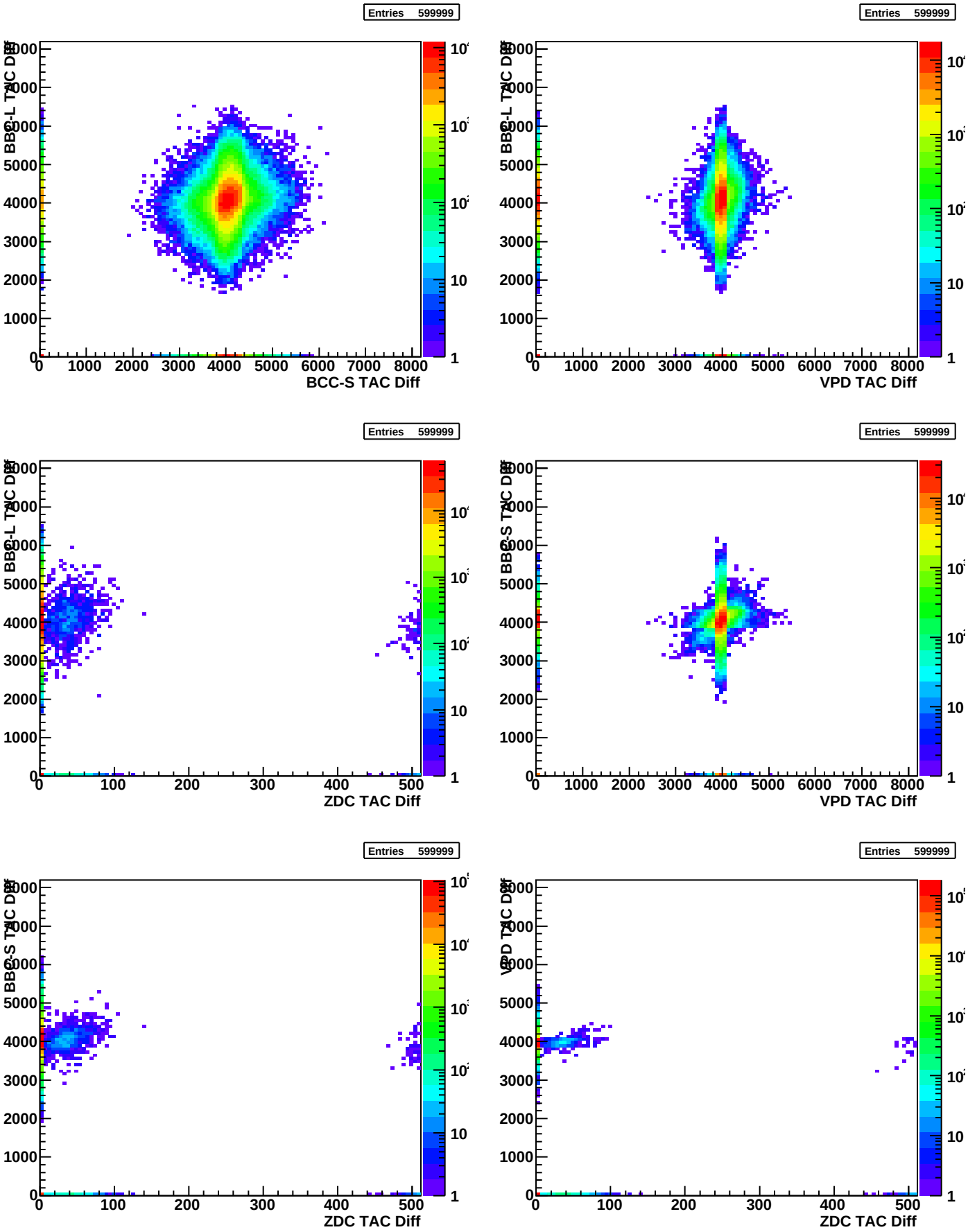

Entries 599999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

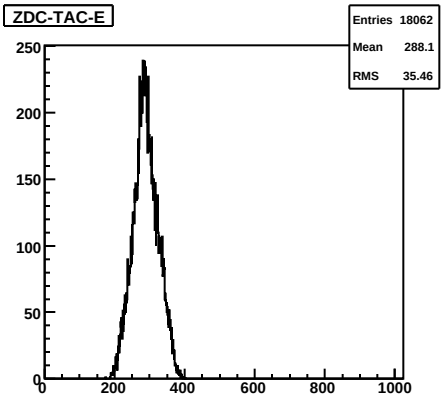

Entries 599999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

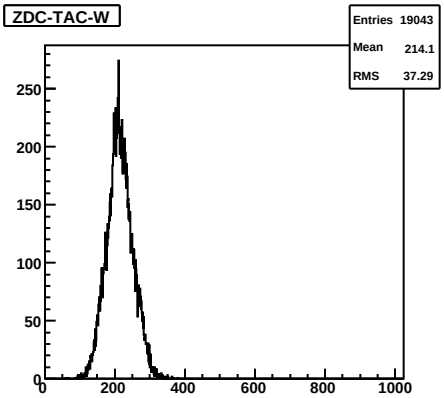

Entries 599999
BBC-L-East ADC Sum
BBC-L-West ADC Sum

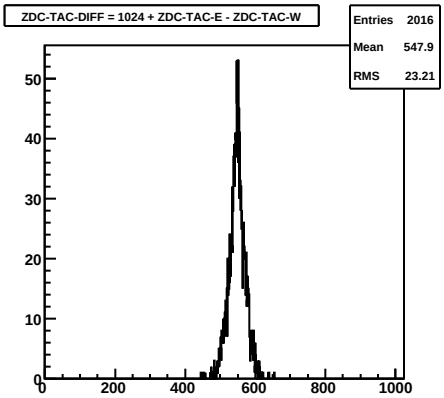

Entries 599999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

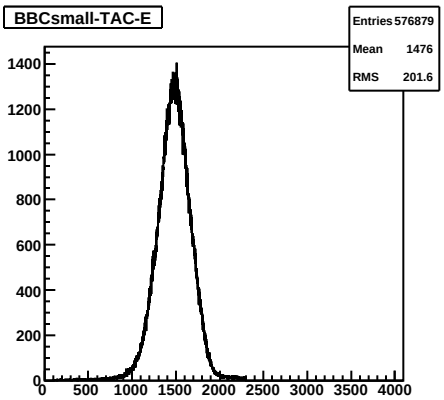

Entries 599999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

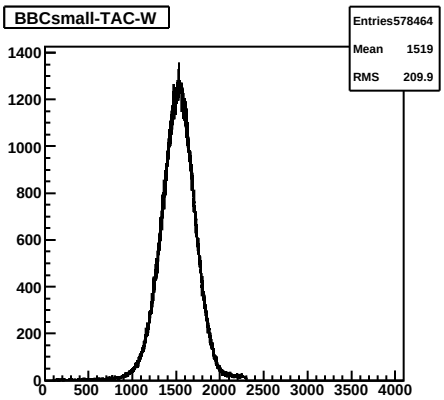

Entries 599999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 599999
BBC-L TAC Diff
VPD TAC Diff
Entries 599999
BBC-L TAC Diff
ZDC TAC Diff
Entries 599999
BBC-S TAC Diff
VPD TAC Diff
Entries 599999
BBC-S TAC Diff
ZDC TAC Diff
Entries 599999
VPD TAC Diff
ZDC TAC Diff

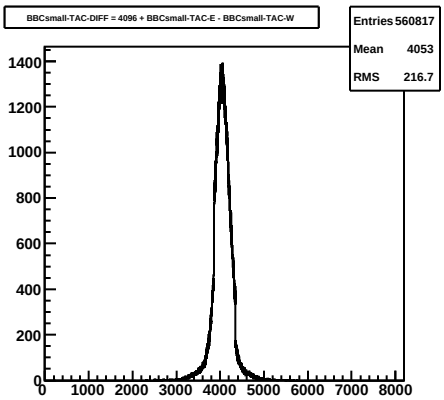

ZDC-TAC-E
Entries 18062
Mean 288.1
RMS 35.46

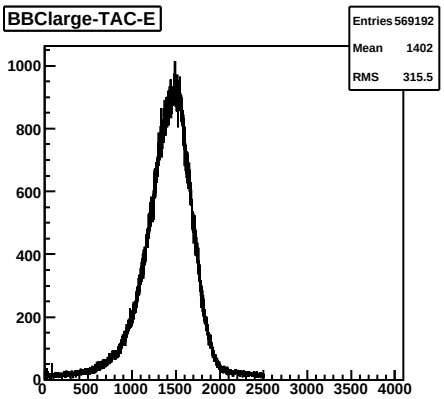

ZDC-TAC-W
Entries 19043
Mean 214.1
RMS 37.29

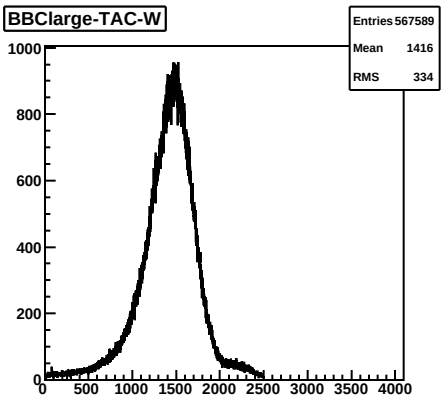

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 2016
Mean 547.9
RMS 23.21

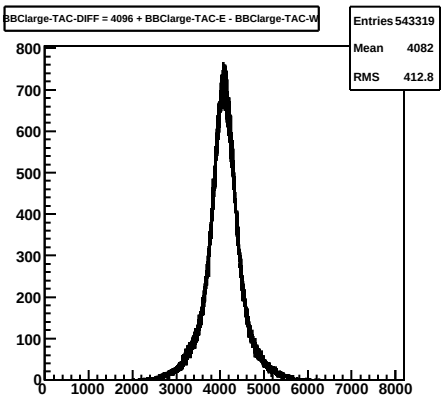

BBCsmall-TAC-E
Entries 576879
Mean 1476
RMS 201.6

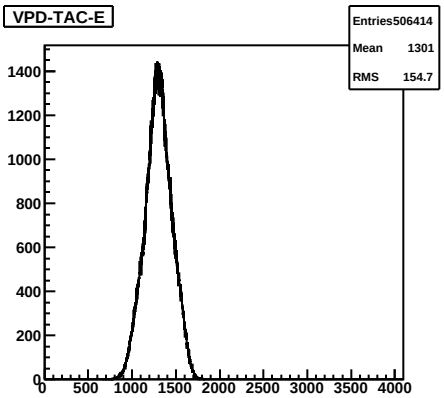

BBCsmall-TAC-W
Entries 578464
Mean 1519
RMS 209.9

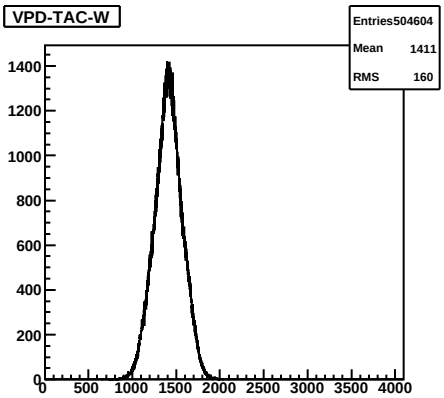

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 560817
Mean 4053
RMS 216.7

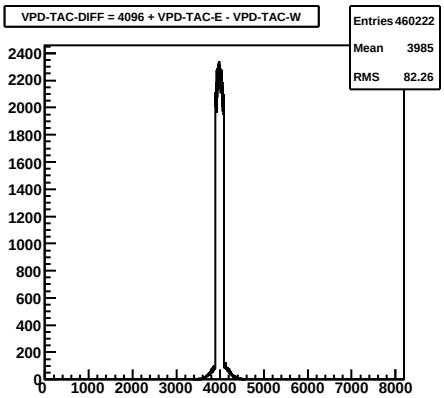

BBClarge-TAC-E
Entries 569192
Mean 1402
RMS 315.5

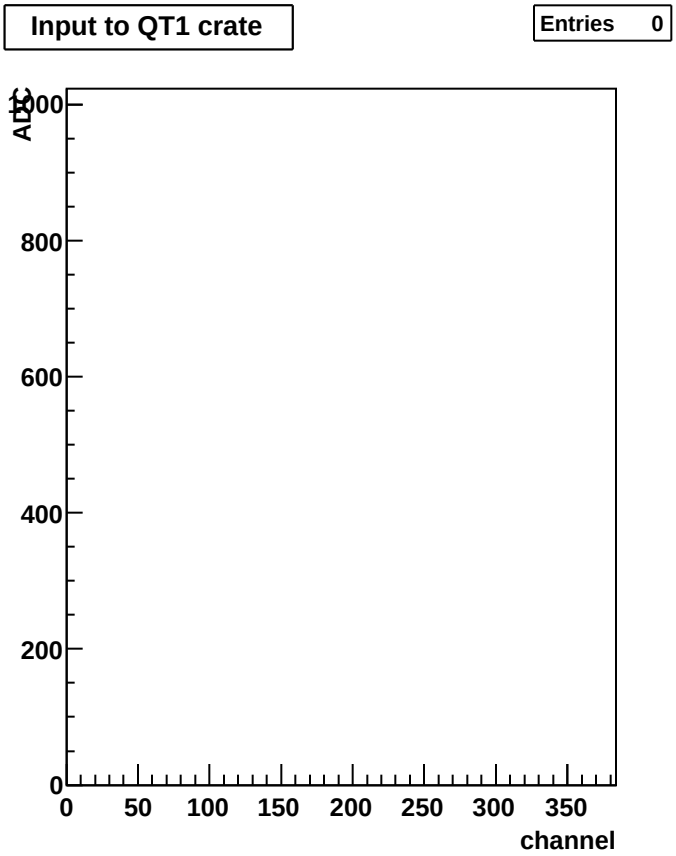

BBClarge-TAC-W
Entries 567589
Mean 1416
RMS 334

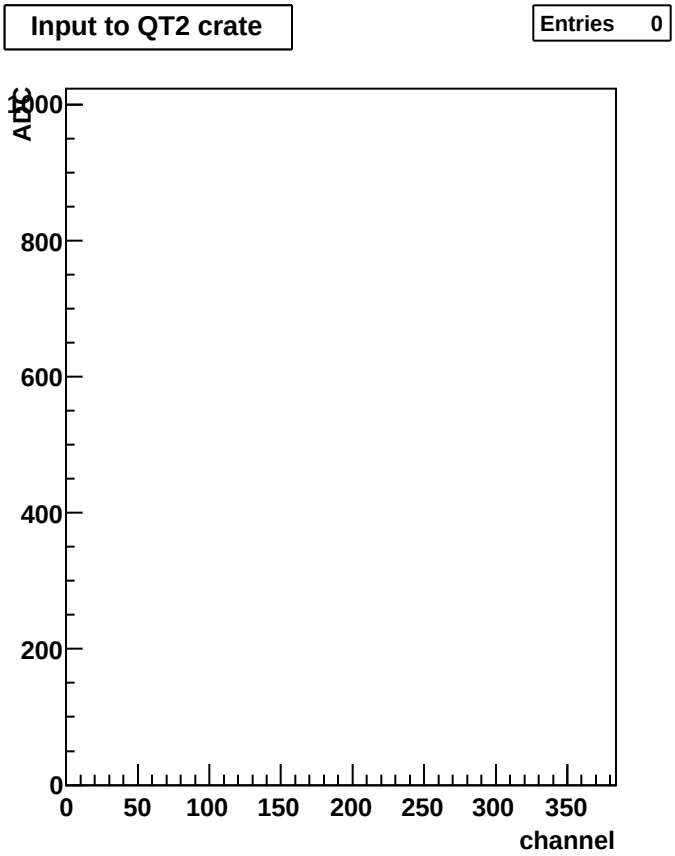

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 543319
Mean 4082
RMS 412.8

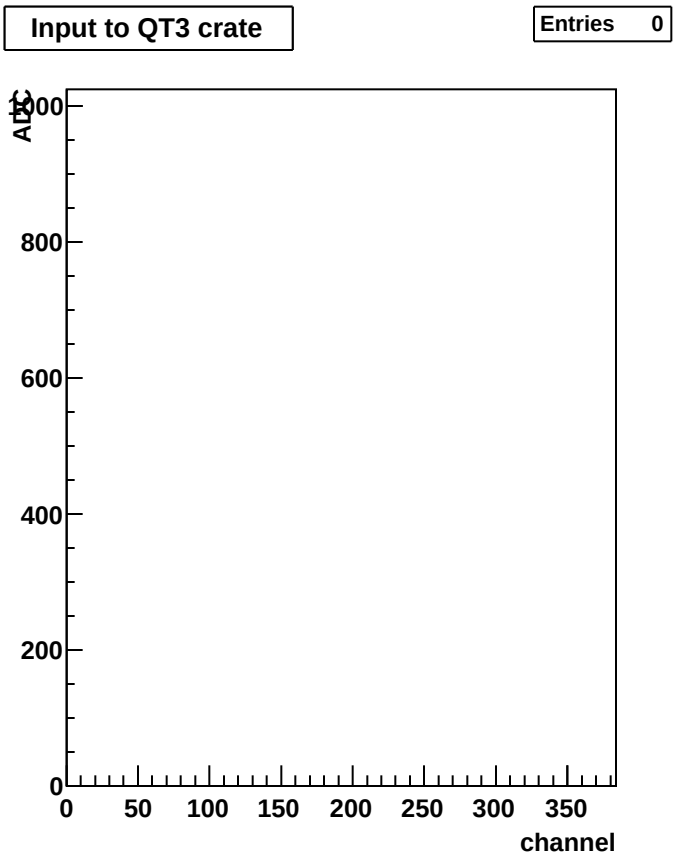

VPD-TAC-E
Entries 506414
Mean 1301
RMS 154.7

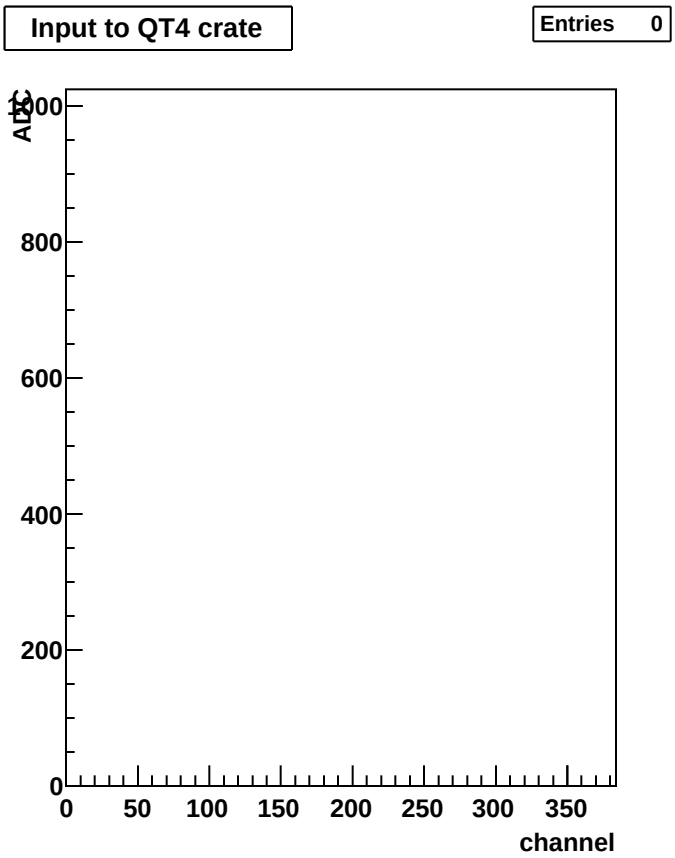

VPD-TAC-W
Entries 504604
Mean 1411
RMS 160

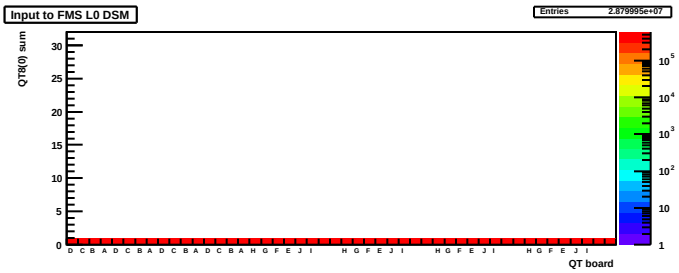

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 460222
Mean 3985
RMS 82.26

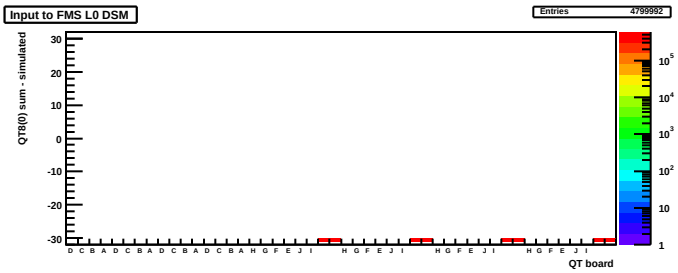

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

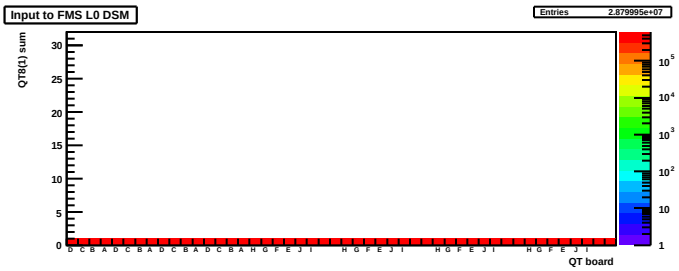

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

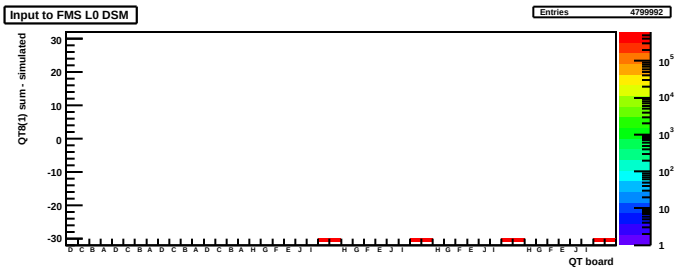

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

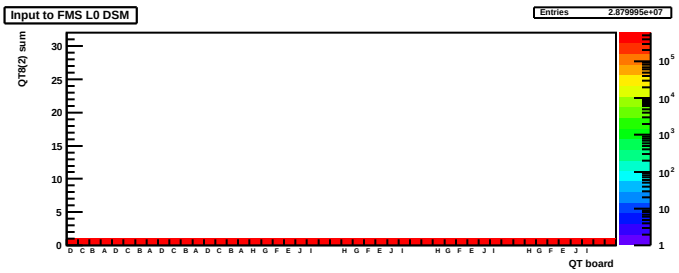

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

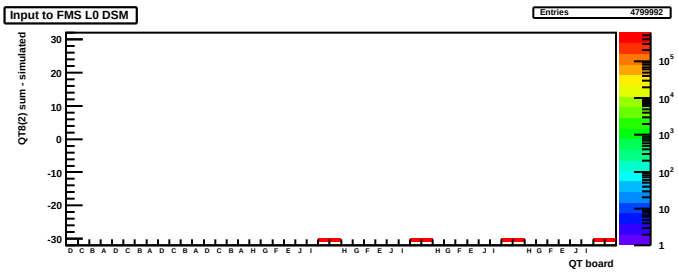

Input to FMS L0 DSM
Entries 2.879995e+07
QT8(0) sum
QT board

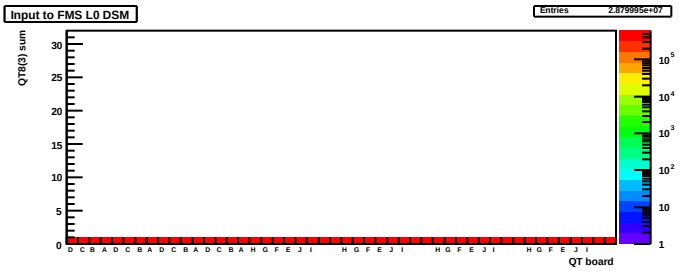

Input to FMS L0 DSM
Entries 4799992
QT8(0) sum - simulated
QT board

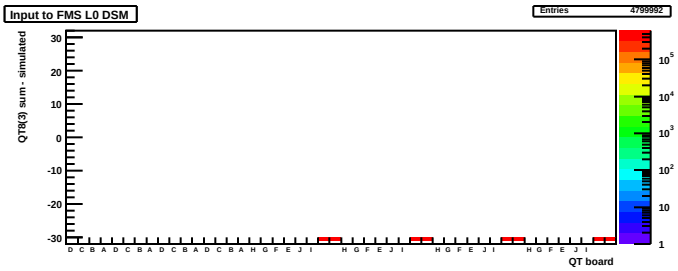

Input to FMS L0 DSM
Entries 2.879995e+07
QT8(1) sum
QT board

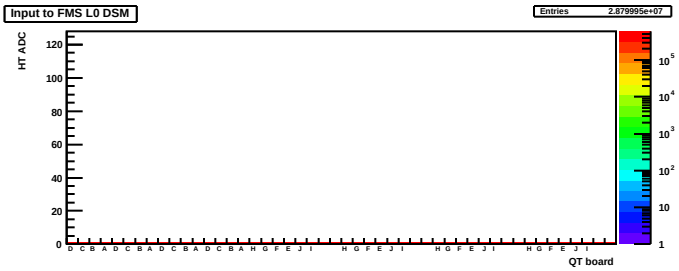

Input to FMS L0 DSM
Entries 4799992
QT8(1) sum - simulated
QT board

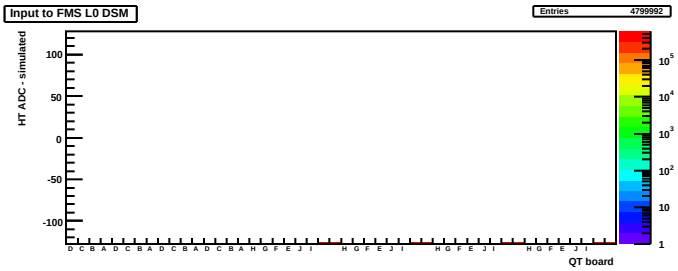

Input to FMS L0 DSM
Entries 2.879995e+07
QT8(2) sum
QT board

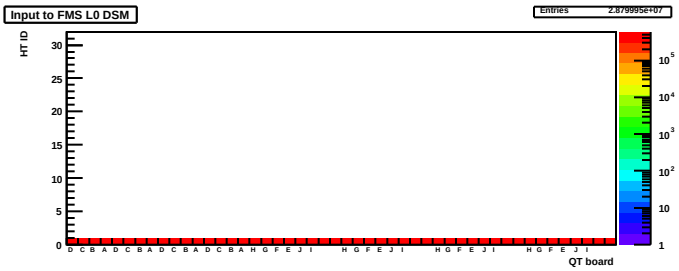

Input to FMS L0 DSM
Entries 4799992
QT8(2) sum - simulated
QT board

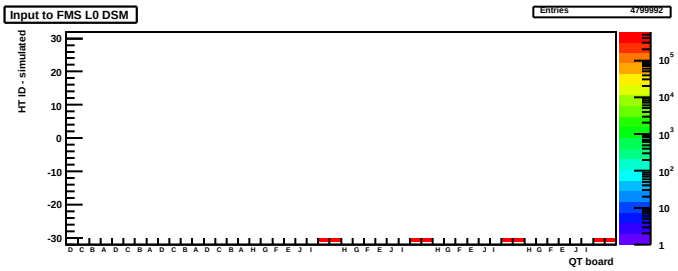

Input to FMS L0 DSM
Entries 2.879995e+07
QT8(3) sum
QT board

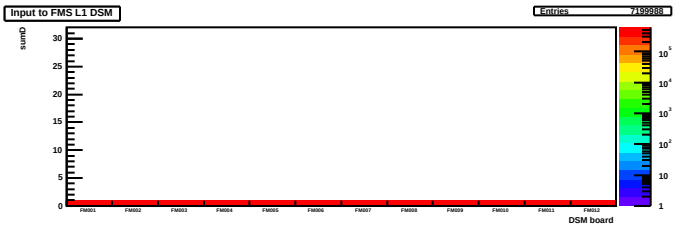

Input to FMS L0 DSM
Entries 4799992
QT8(3) sum - simulated
QT board

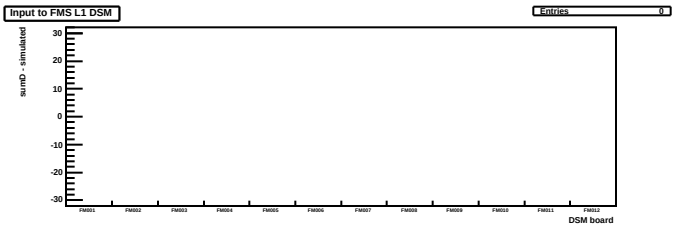

Input to FMS L0 DSM
Entries 2.879995e+07
HT ADC
QT board

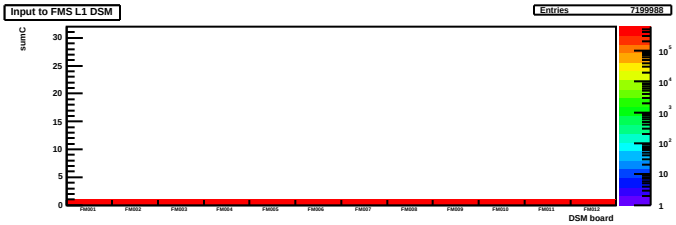

Input to FMS L0 DSM
Entries 4799992
HT ADC - simulated
QT board

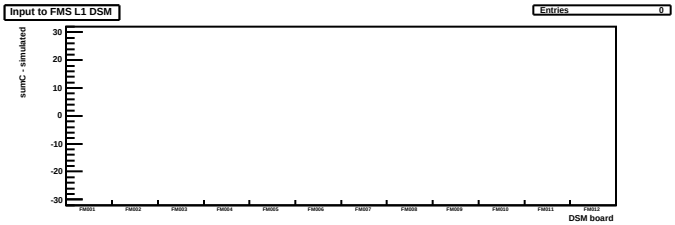

Input to FMS L0 DSM
Entries 2.879995e+07
HT ID
QT board

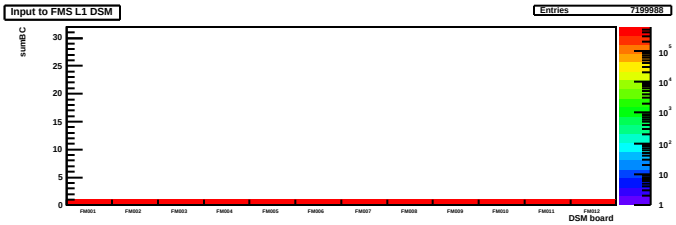

Input to FMS L0 DSM
Entries 4799992
HT ID - simulated
QT board

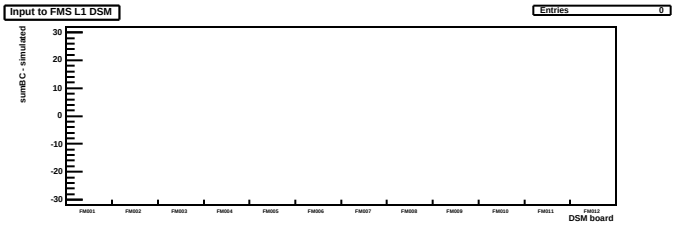

Input to FMS L1 DSM
Entries 7199988
sumD
DSM board

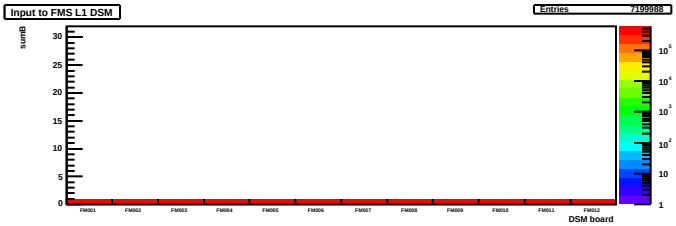

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

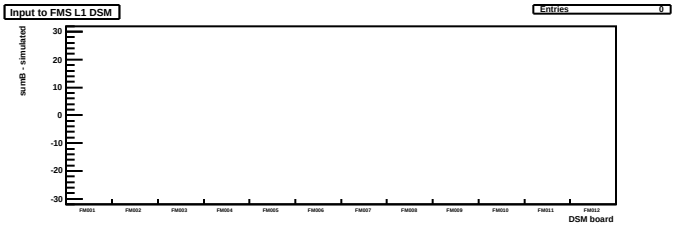

Input to FMS L1 DSM
Entries 7199988
sumC
DSM board

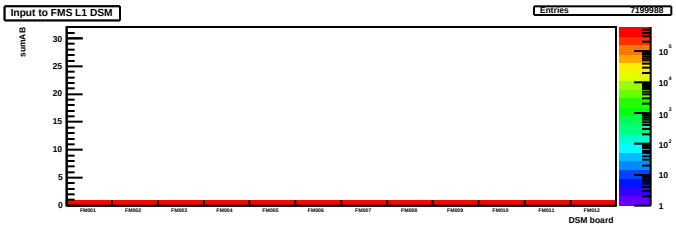

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

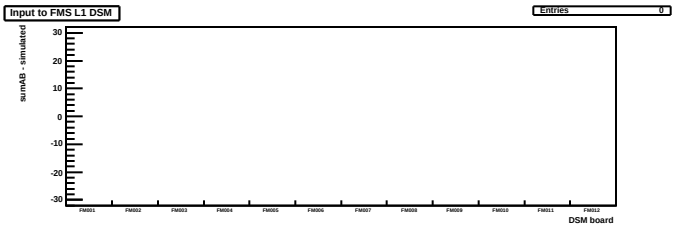

Input to FMS L1 DSM
Entries 7199988
sumBC
DSM board

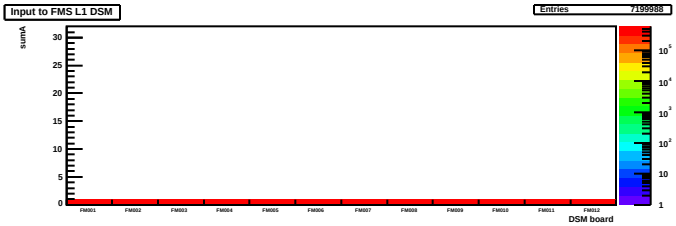

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

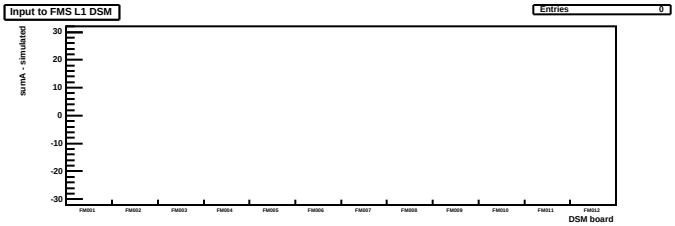

Input to FMS L1 DSM
Entries 7199988
sumB
DSM board

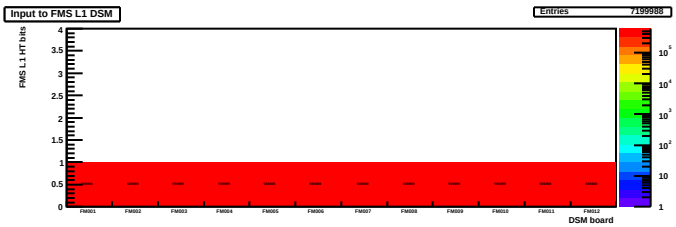

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

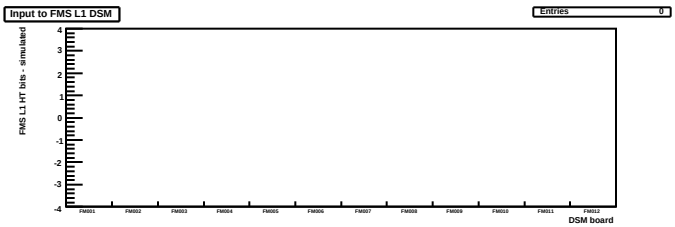

Input to FMS L1 DSM
Entries 7199988
sumAB
DSM board

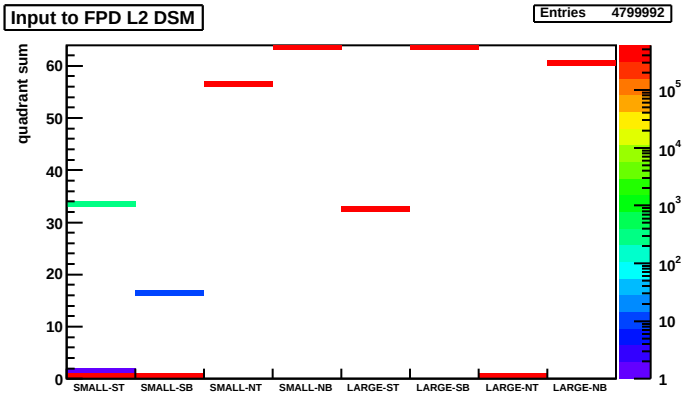

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

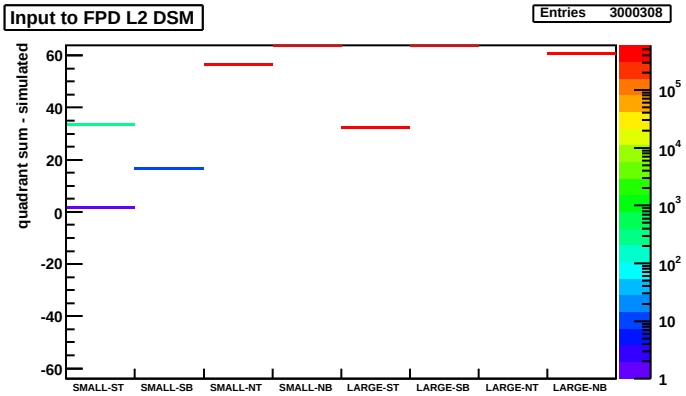

Input to FMS L1 DSM
Entries 7199988
sumA
DSM board

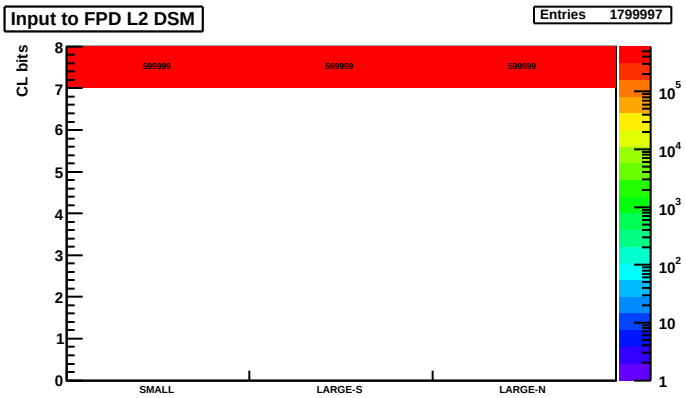

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

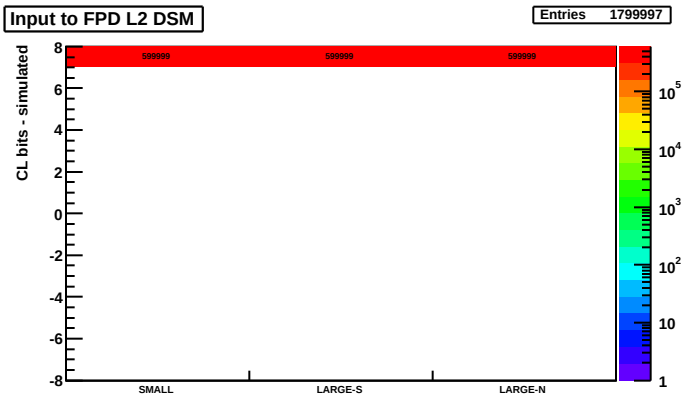

Input to FMS L1 DSM
Entries 7199988
FMS L1 HT bits
DSM board

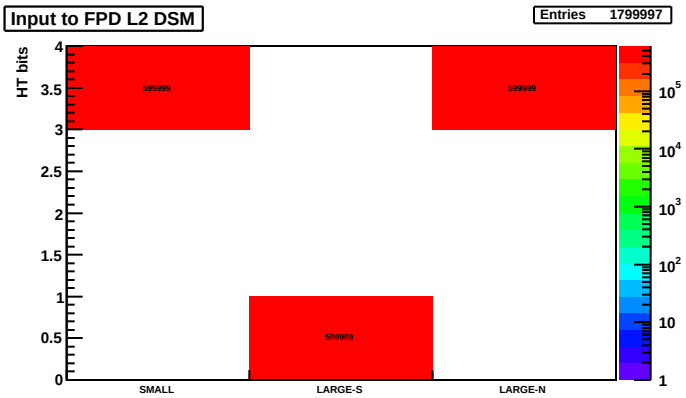

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

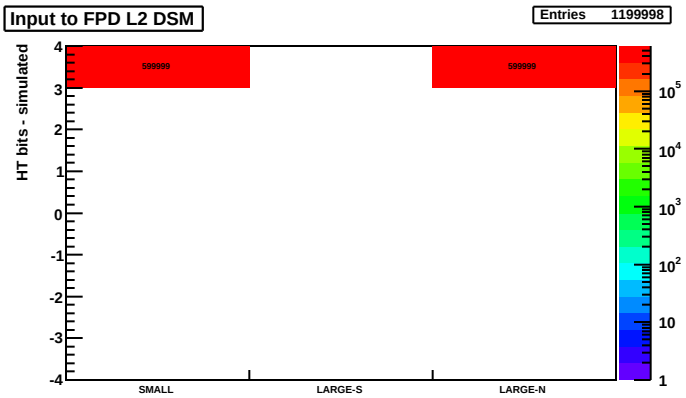

Input to FPD L2 DSM
Entries 4799992
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

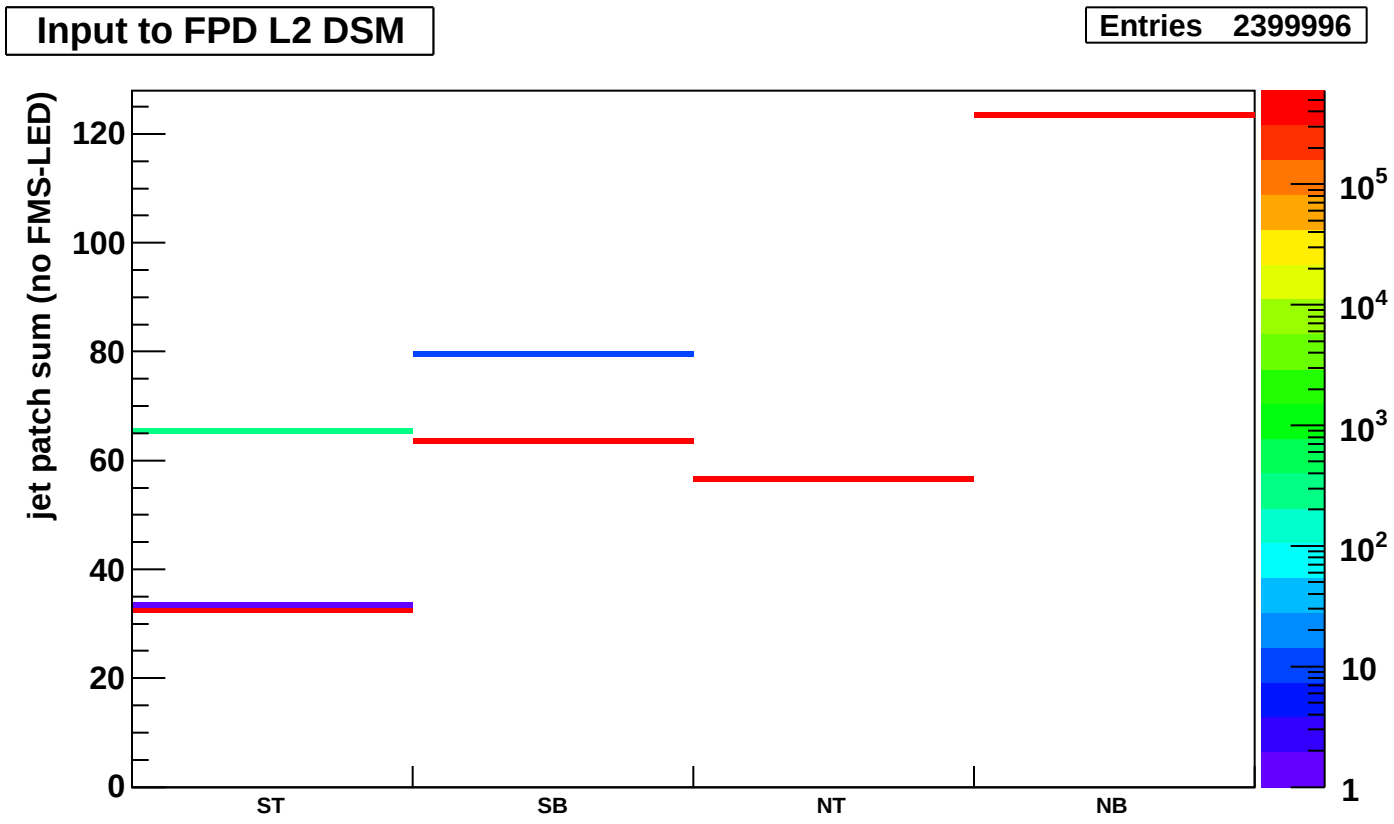

Input to FPD L2 DSM
Entries 3000308
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

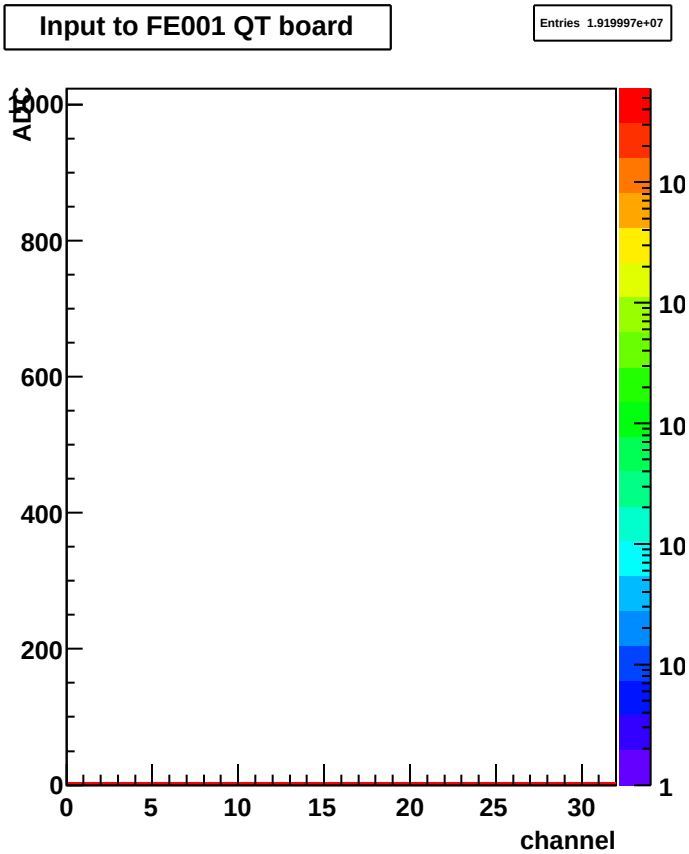

Input to FPD L2 DSM
Entries 1799997
CL bits
599999
599999
599999
SMALL
LARGE-S
LARGE-N

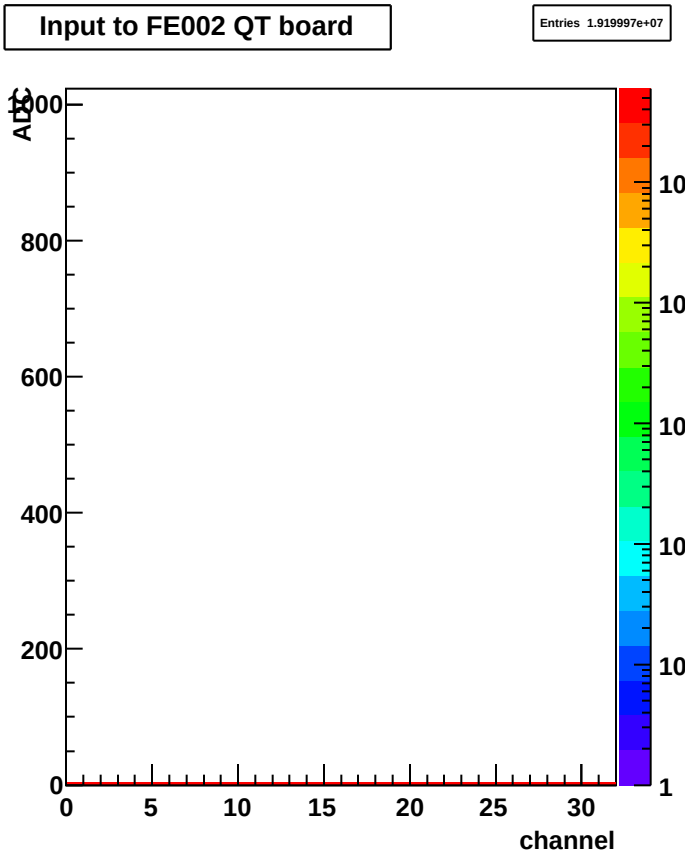

Input to FPD L2 DSM
Entries 1799997
CL bits - simulated
599999
599999
599999
SMALL
LARGE-S
LARGE-N

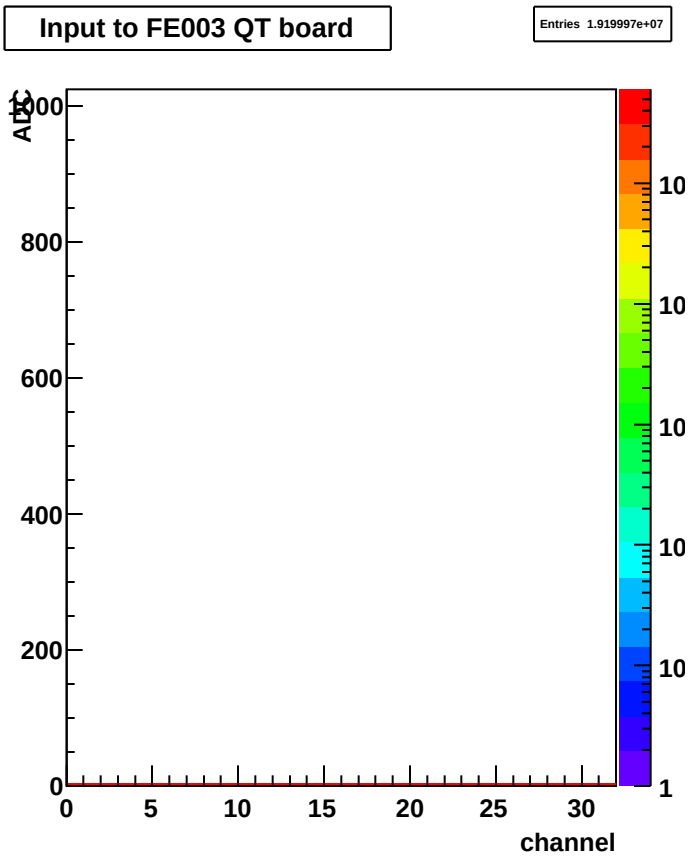

Input to FPD L2 DSM
Entries 1799997
HT bits
599999
599999
599999
SMALL
LARGE-S
LARGE-N

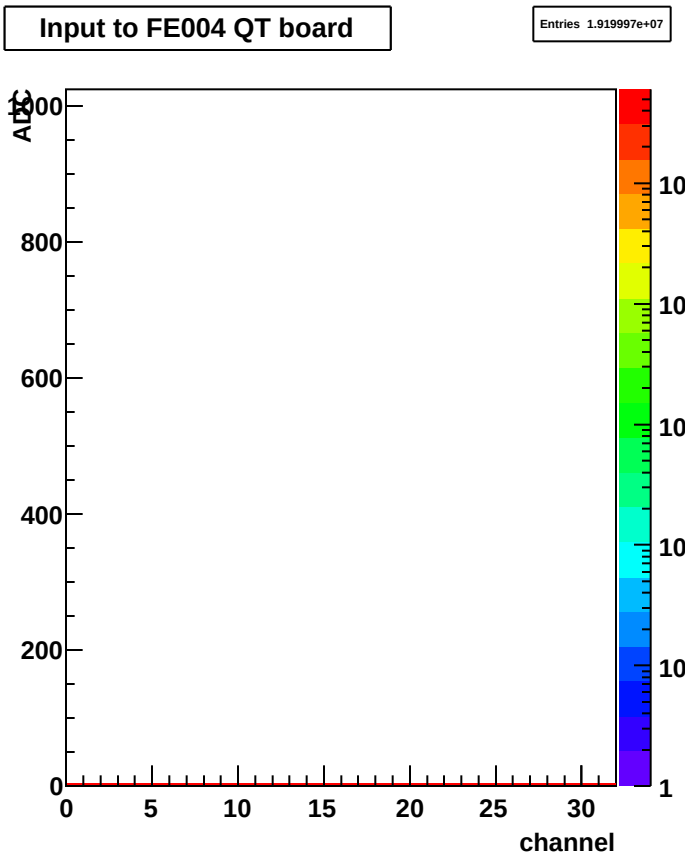

Input to FPD L2 DSM
Entries 1199998
HT bits - simulated
599999
599999
SMALL
LARGE-S
LARGE-N

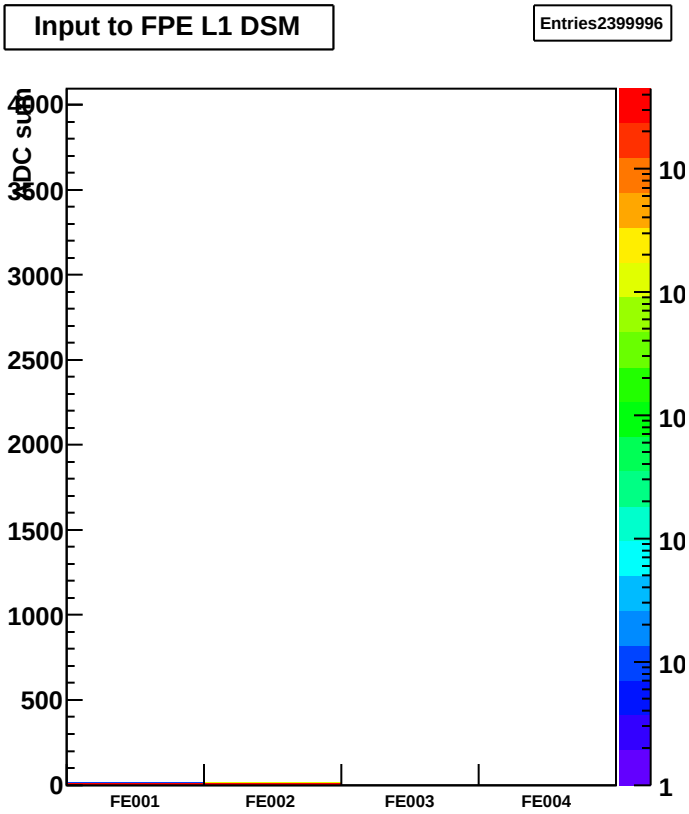

Input to FPD L2 DSM
Entries 2399996
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

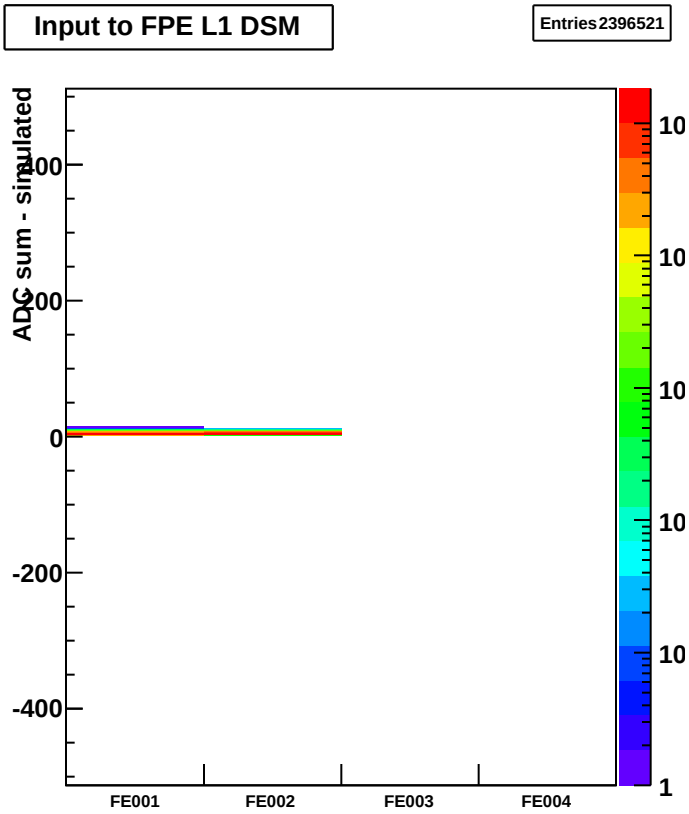

Input to FE001 QT board
Entries 1.919997e+07
ADC
channel

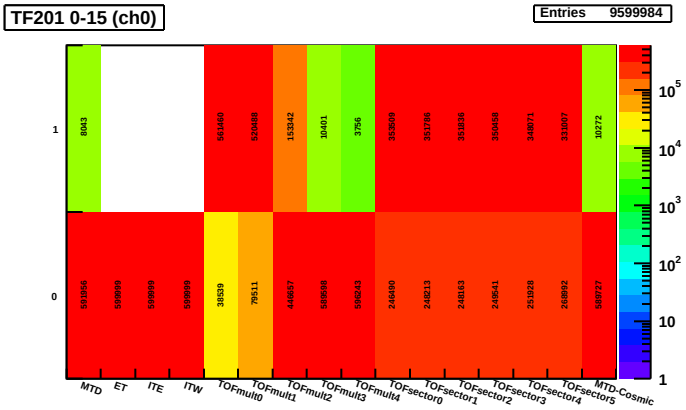

Input to FE002 QT board
Entries 1.919997e+07
ADC
channel

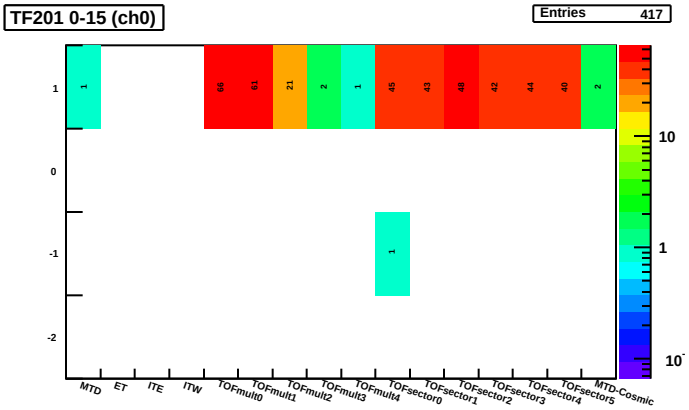

Input to FE003 QT board
Entries 1.919997e+07
ADC
channel

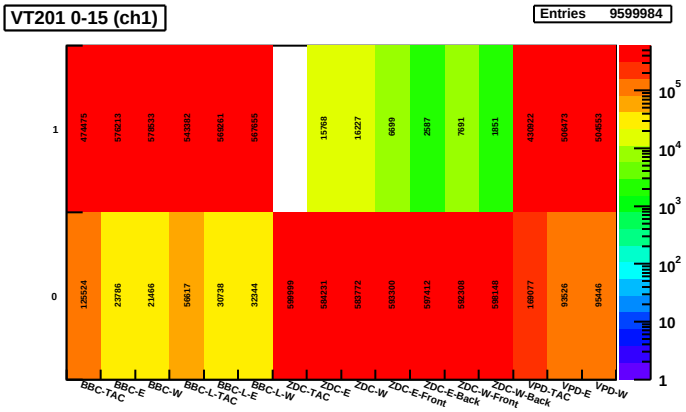

Input to FE004 QT board
Entries 1.919997e+07
ADC
channel

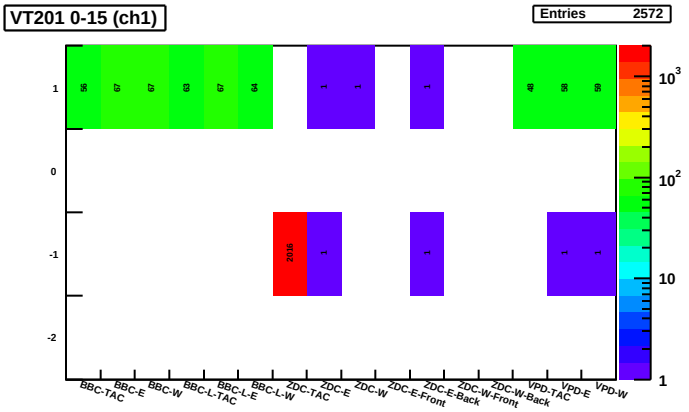

Input to FPE L1 DSM
Entries 2399996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

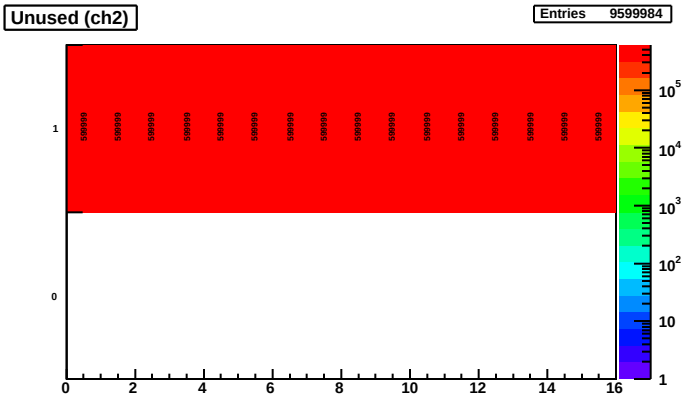

Input to FPE L1 DSM
Entries 2396521
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
10
1

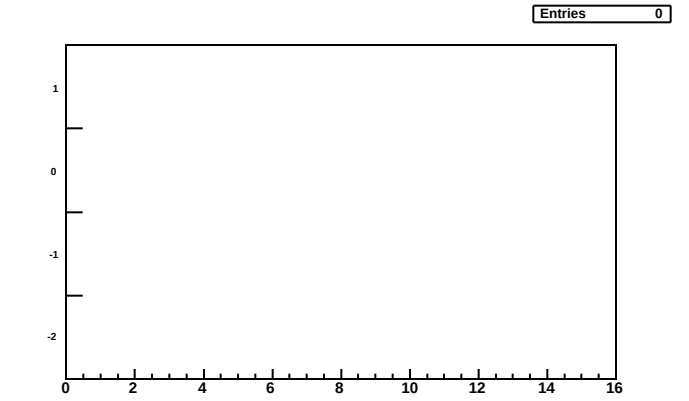

TF201 0-15 (ch0)
Entries 9599984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

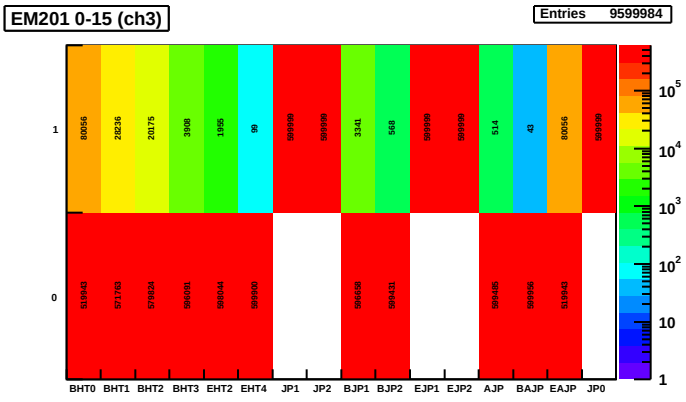

TF201 0-15 (ch0)
Entries 417
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

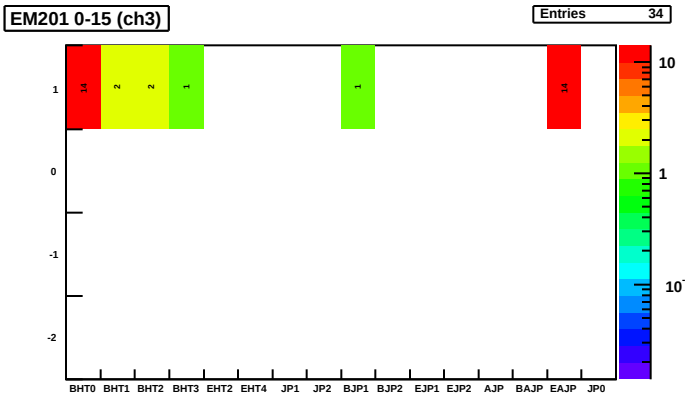

VT201 0-15 (ch1)
Entries 9599984
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2572
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

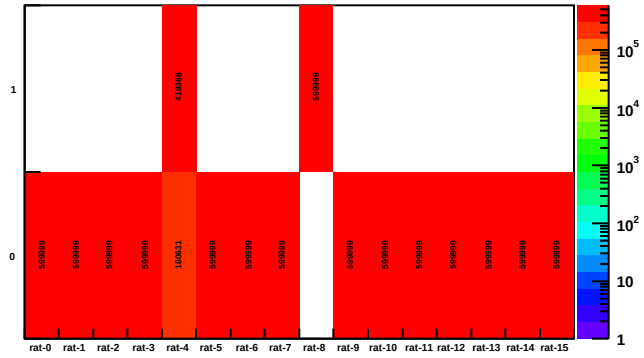

Unused (ch2)
Entries 9599984

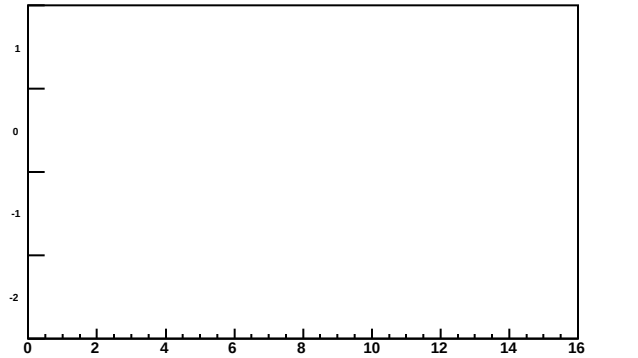

Entries 0


EM201 0-15 (ch3)
Entries 9599984
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

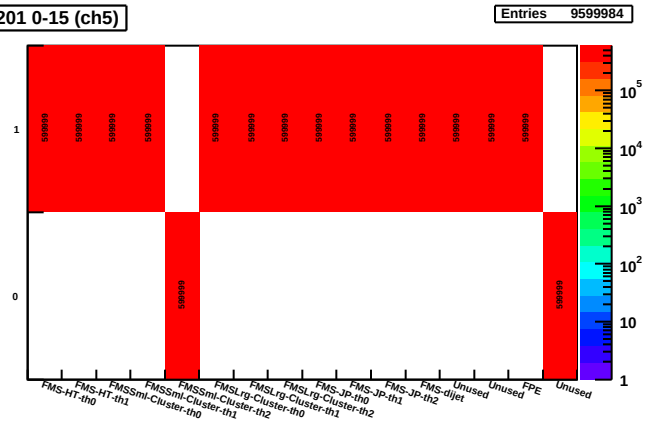

EM201 0-15 (ch3)
Entries 34
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

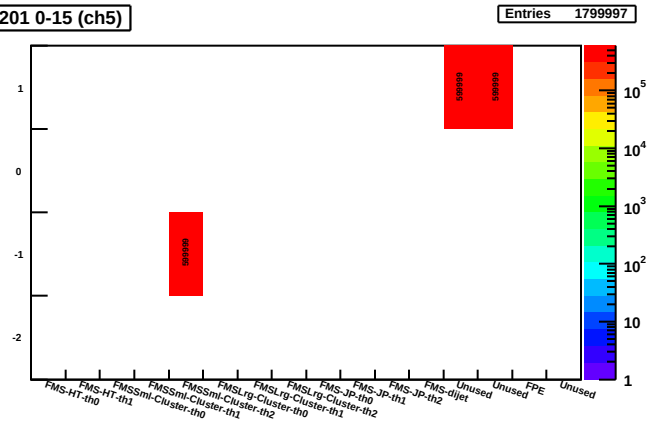




FP201 0-15 (ch5)



FP201 0-15 (ch5)



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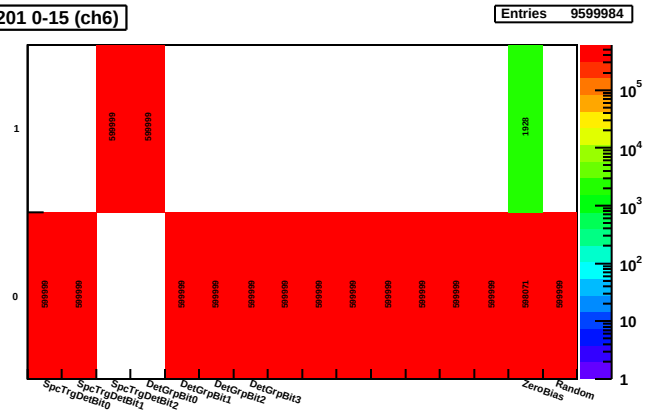

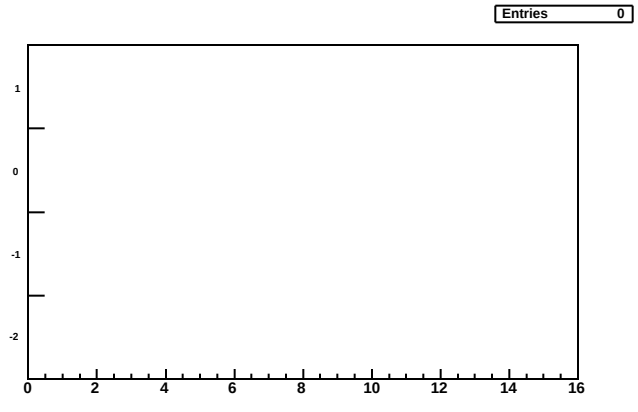
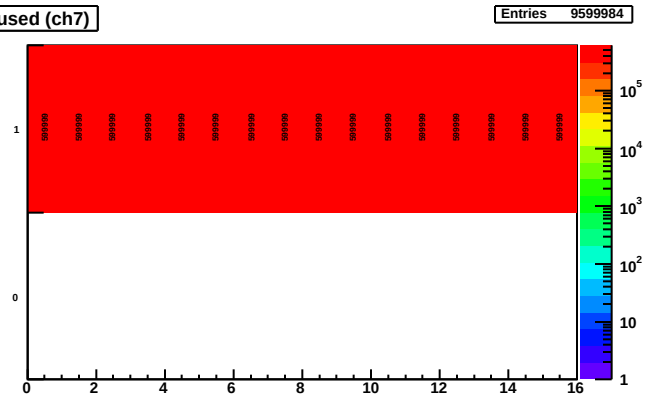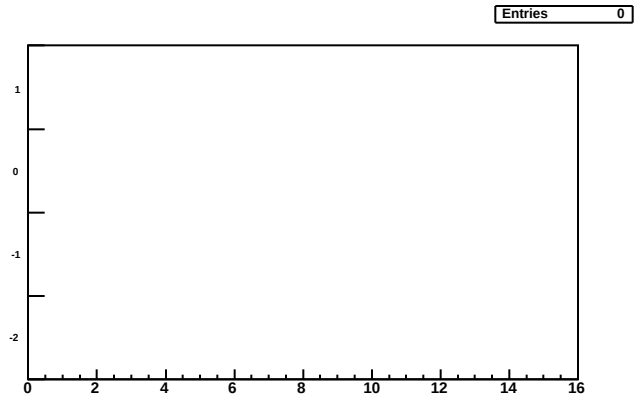
Unused (ch7)