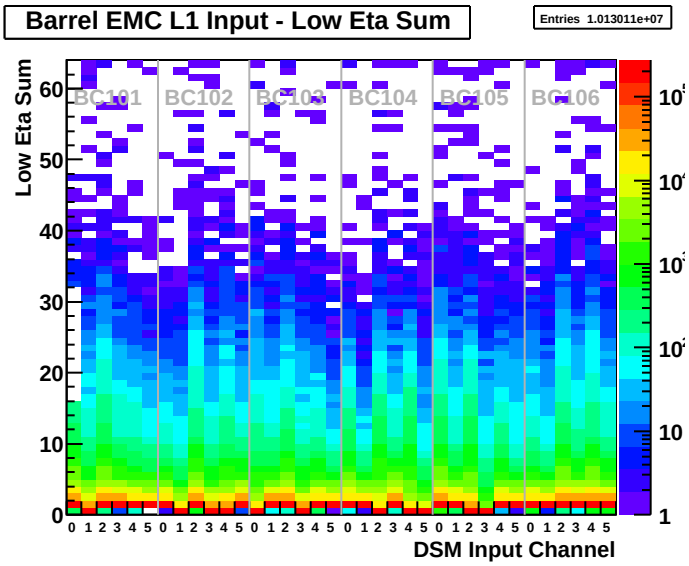
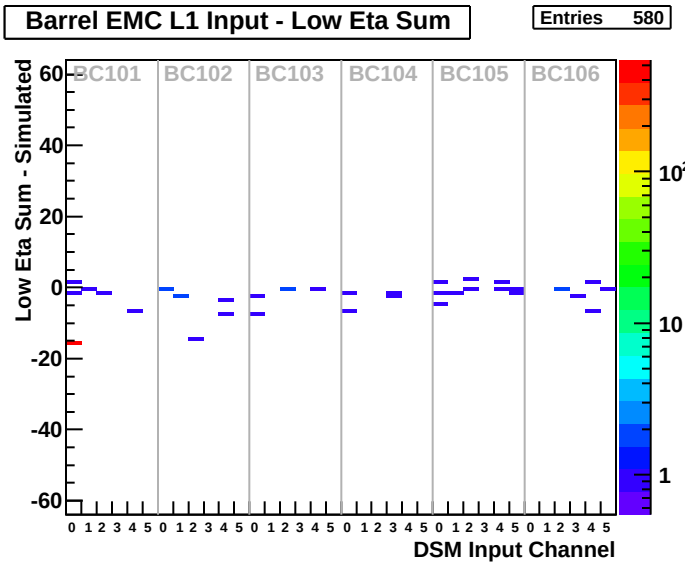
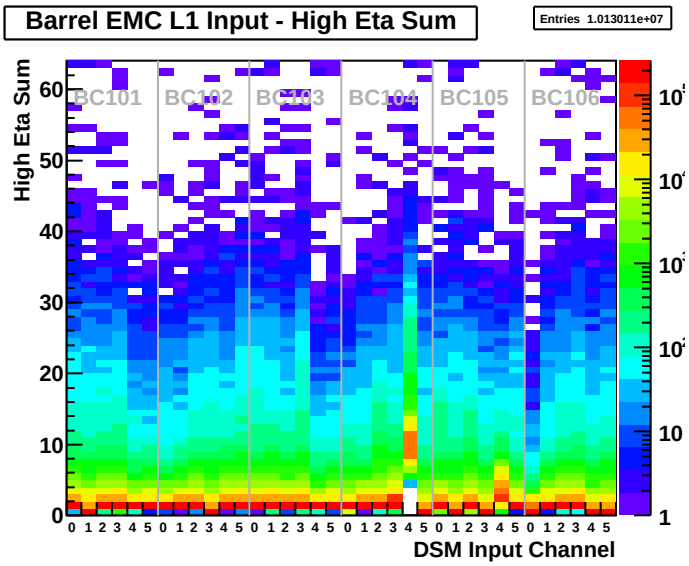
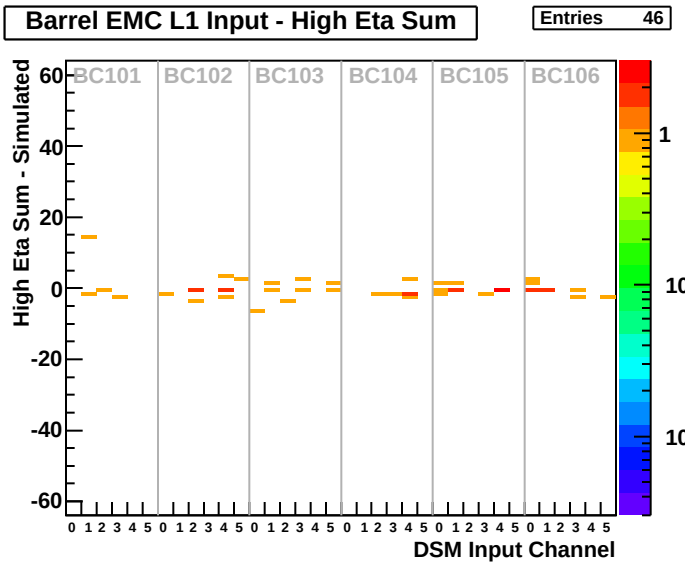
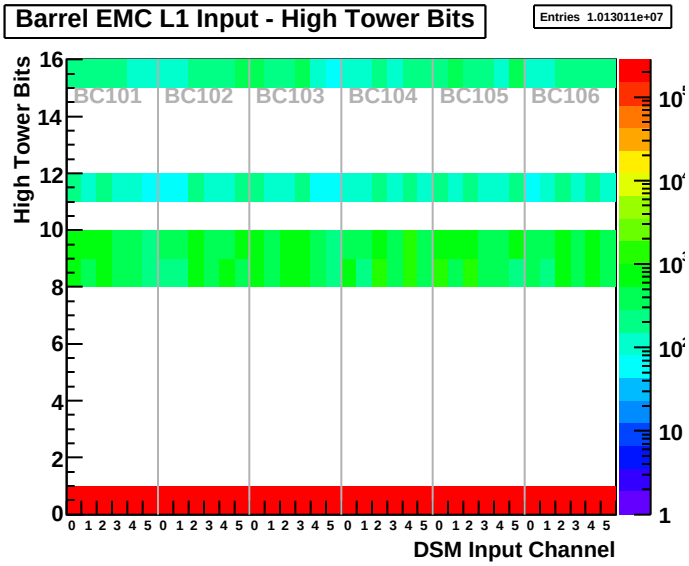
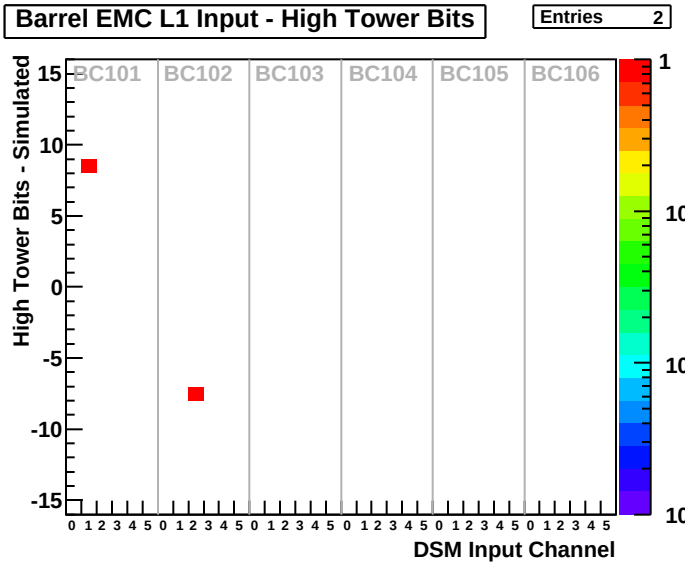

Barrel EMC L1 Input - Low Eta Sum
Entries 1.013011e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

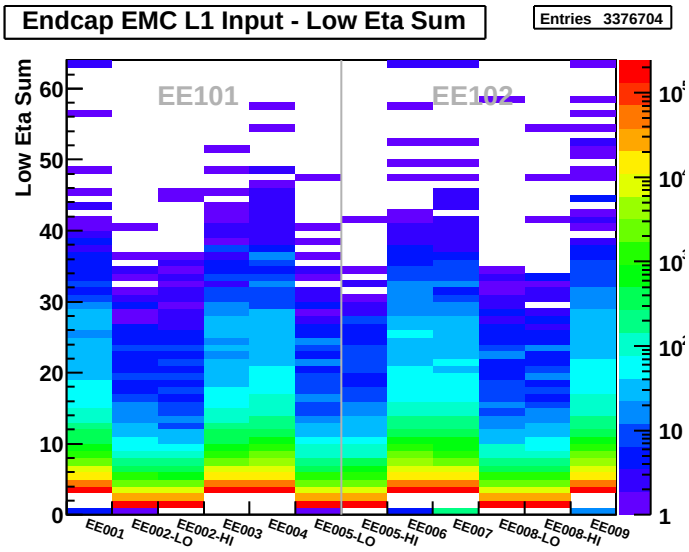

Barrel EMC L1 Input - Low Eta Sum
Entries 580
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

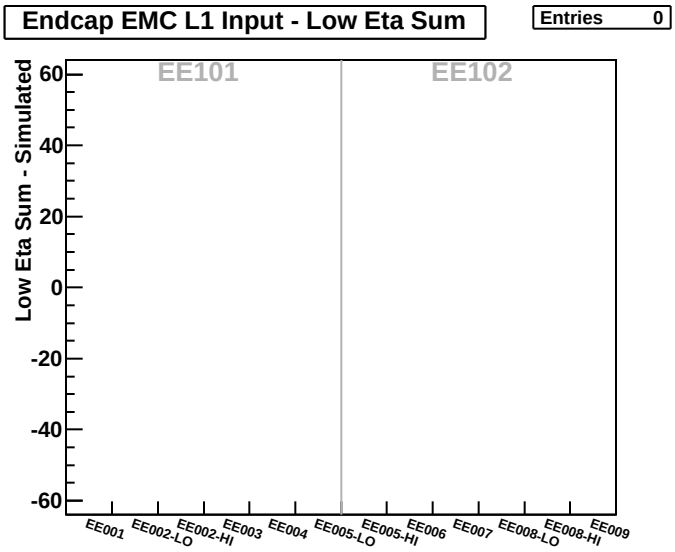

Barrel EMC L1 Input - High Eta Sum
Entries 1.013011e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

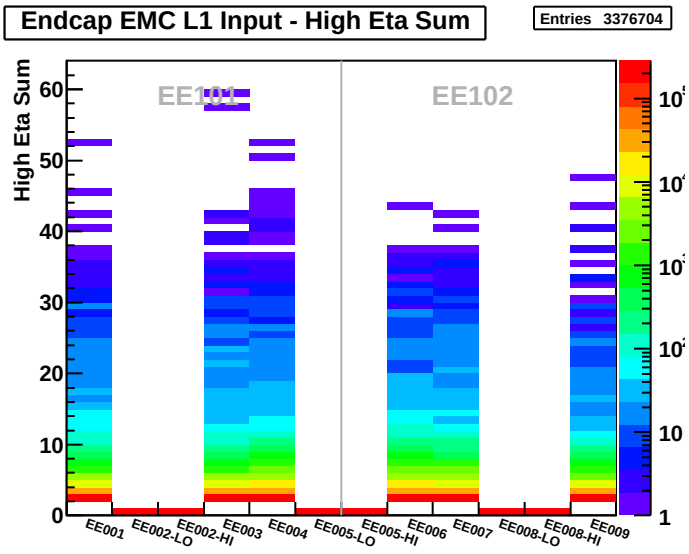

Barrel EMC L1 Input - High Eta Sum
Entries 46
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

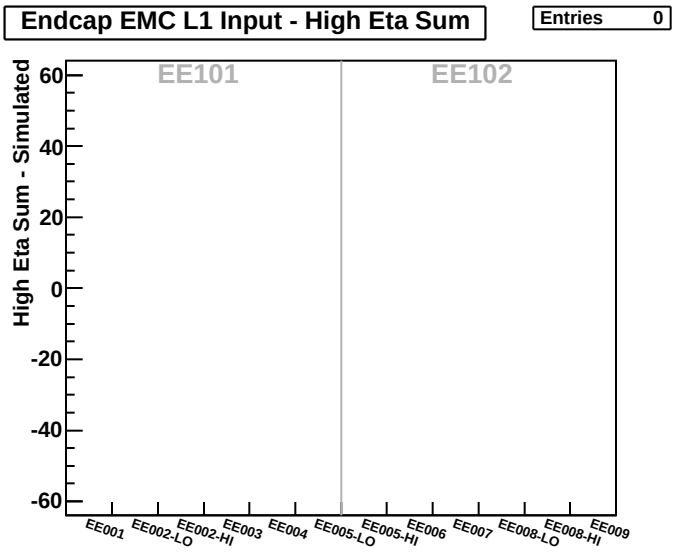

Barrel EMC L1 Input - High Tower Bits
Entries 1.013011e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

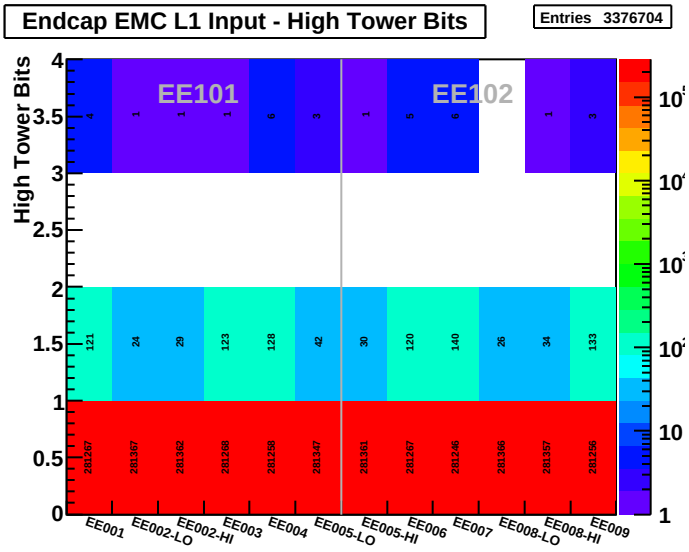

Barrel EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

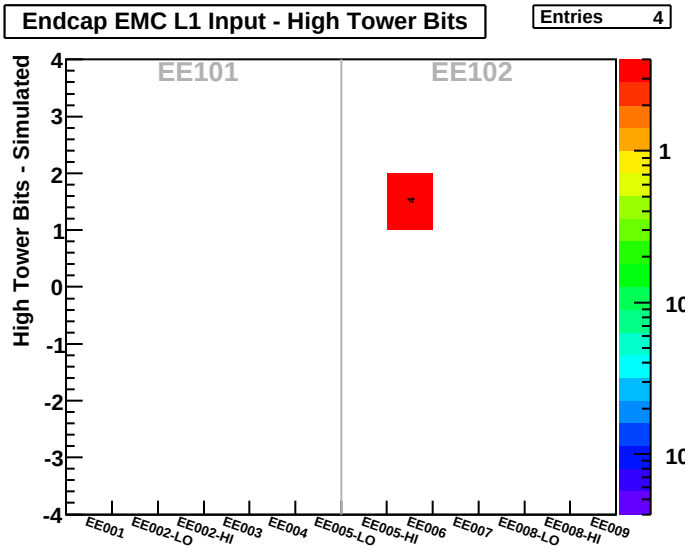

Endcap EMC L1 Input - Low Eta Sum
Entries 3376704
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

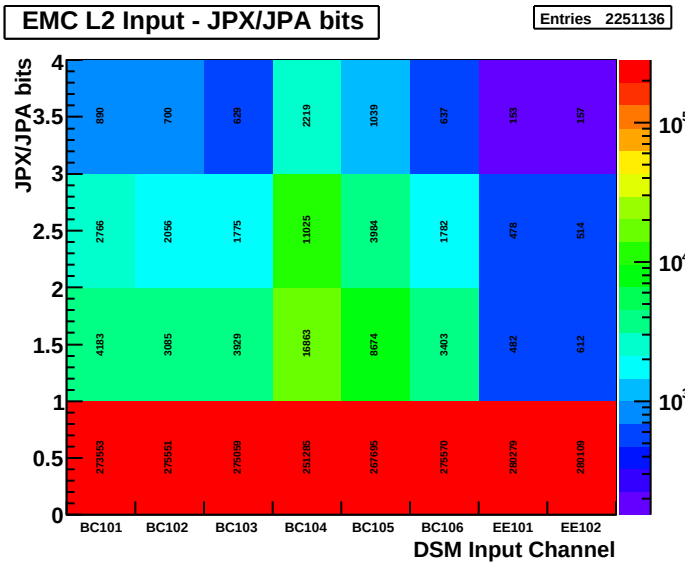

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

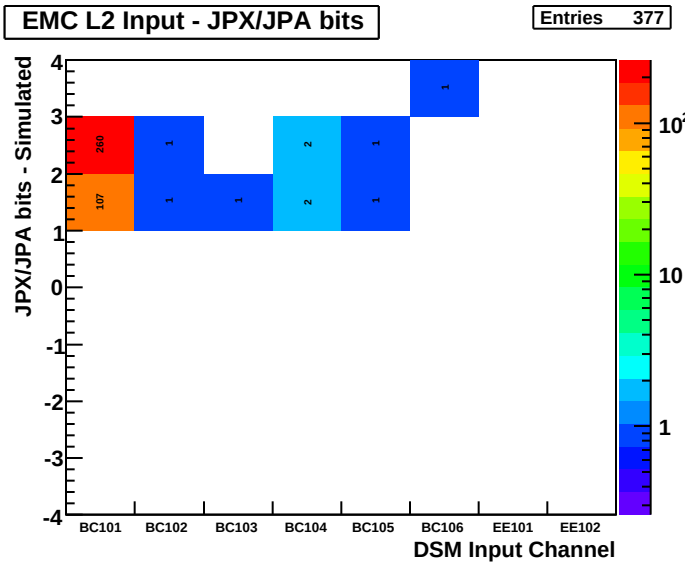

Endcap EMC L1 Input - High Eta Sum
Entries 3376704
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

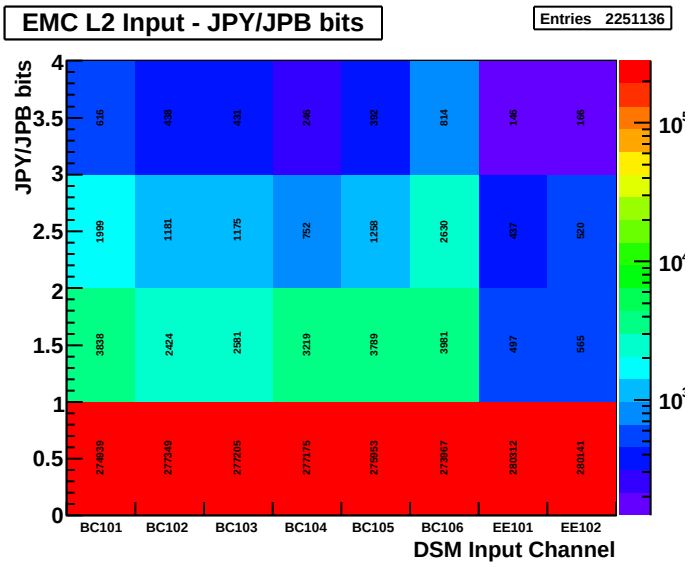

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

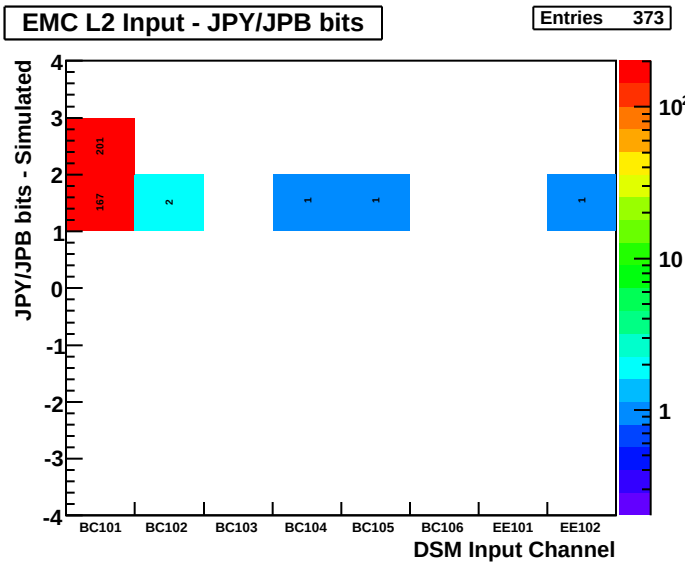

Endcap EMC L1 Input - High Tower Bits
Entries 3376704
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

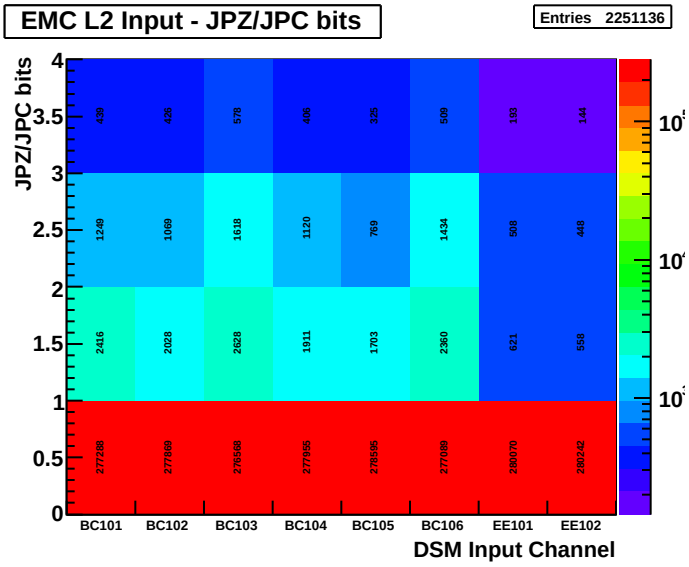

Endcap EMC L1 Input - High Tower Bits
Entries 4
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

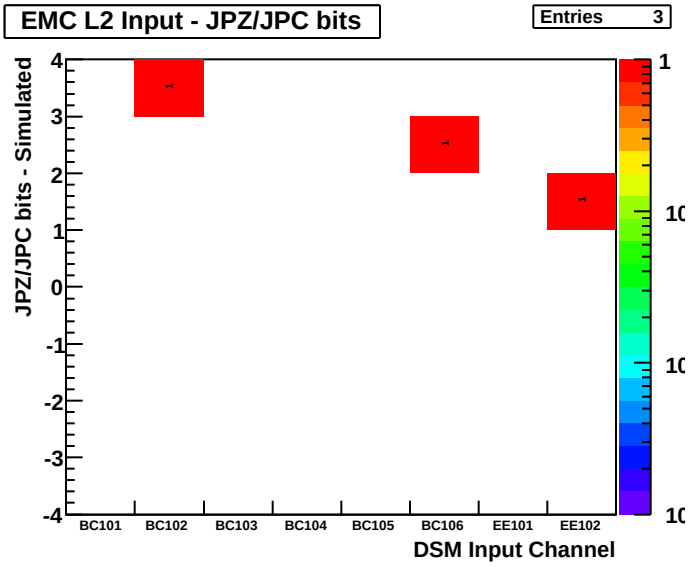

EMC L2 Input - JPX/JPA bits
Entries 2251136
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
890 700 629 2219 1039 637 153 157
2766 2056 1775 11025 3984 1782 478 514
4183 3085 3929 16863 8674 3403 482 612
275553 275551 275089 251285 267695 275570 280279 280109

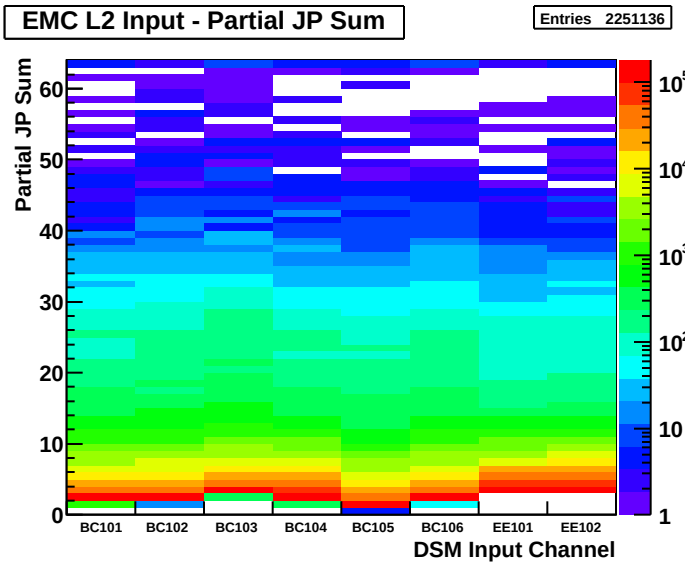

EMC L2 Input - JPX/JPA bits
Entries 377
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
260 1 2 1 1
107 1 1 2 1

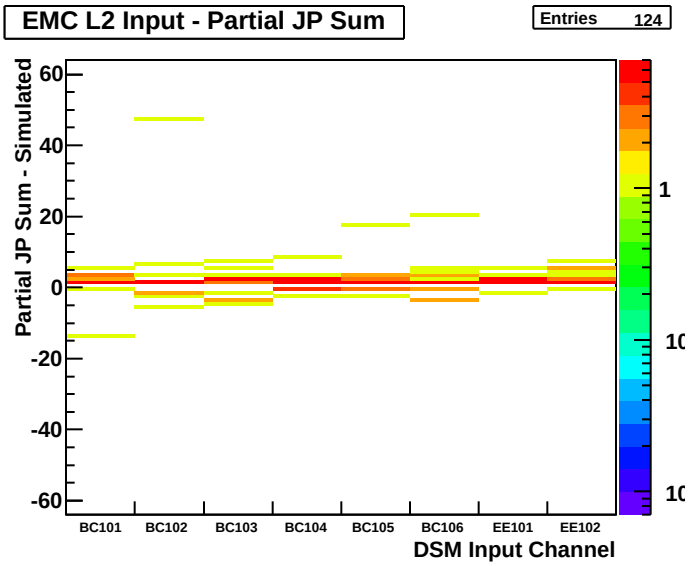

EMC L2 Input - JPY/JPB bits
Entries 2251136
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
616 438 431 246 392 814 146 166
1999 1181 1175 752 1258 2630 437 520
3838 2424 2581 3219 3789 3981 497 565
274939 277349 277205 277175 275953 273967 280312 280141

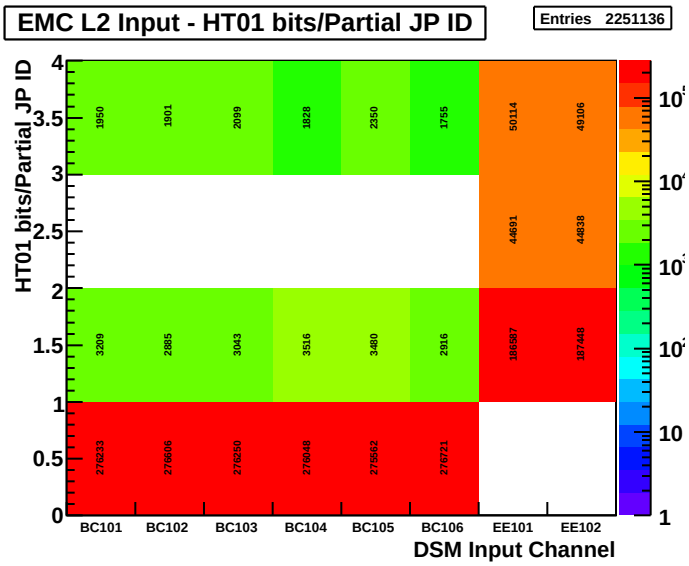

EMC L2 Input - JPY/JPB bits
Entries 373
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
201 1
167 2 1 1 1

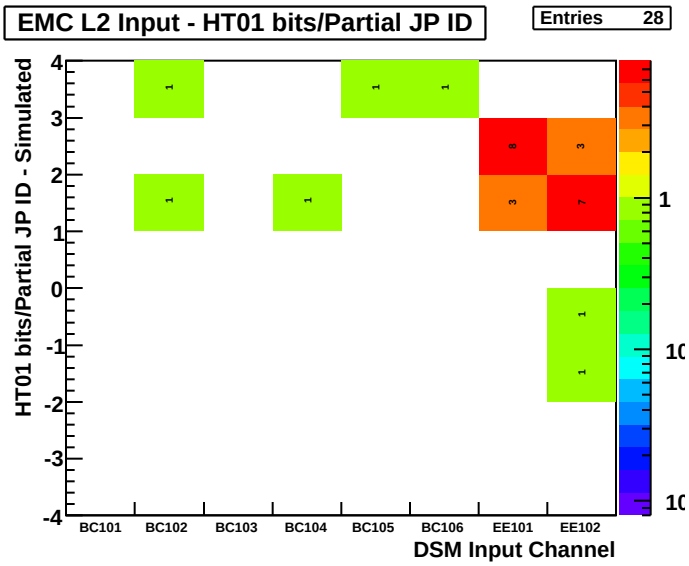

EMC L2 Input - JPZ/JPC bits
Entries 2251136
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
439 426 578 406 325 509 133 144
1249 1069 1618 1120 769 1434 508 448
2416 2028 2628 1911 1703 2360 621 558
277288 277869 276588 277955 278595 277089 280070 280242

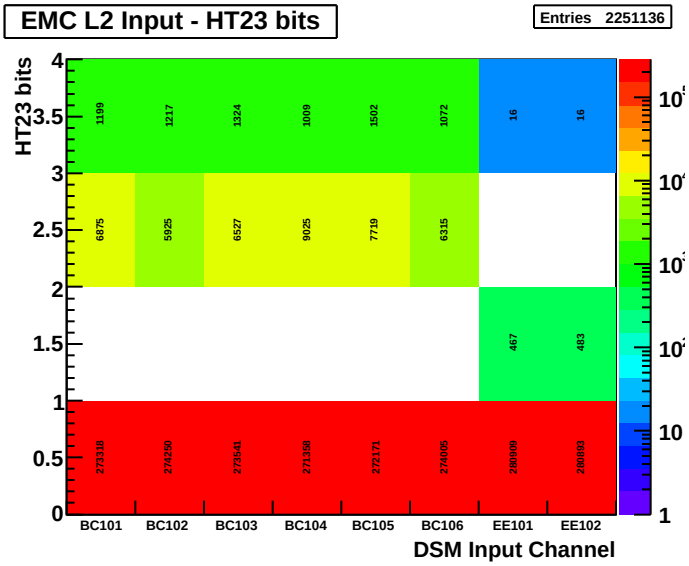

EMC L2 Input - JPZ/JPC bits
Entries 3
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
1
1

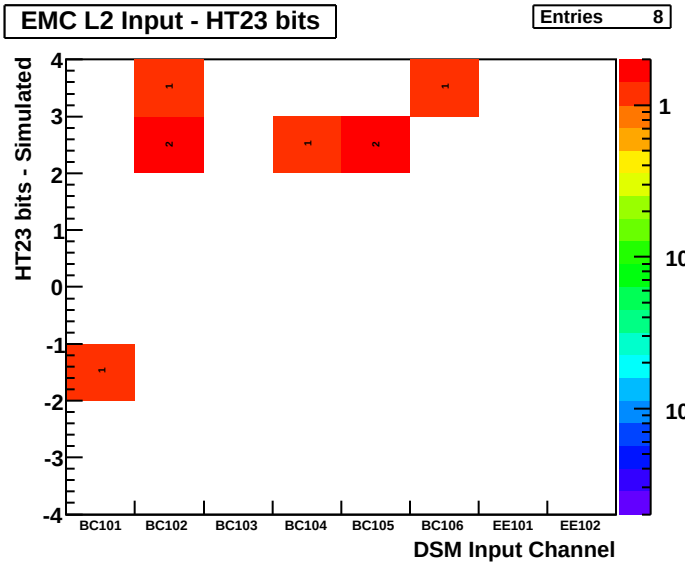

EMC L2 Input - Partial JP Sum
Entries 2251136
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

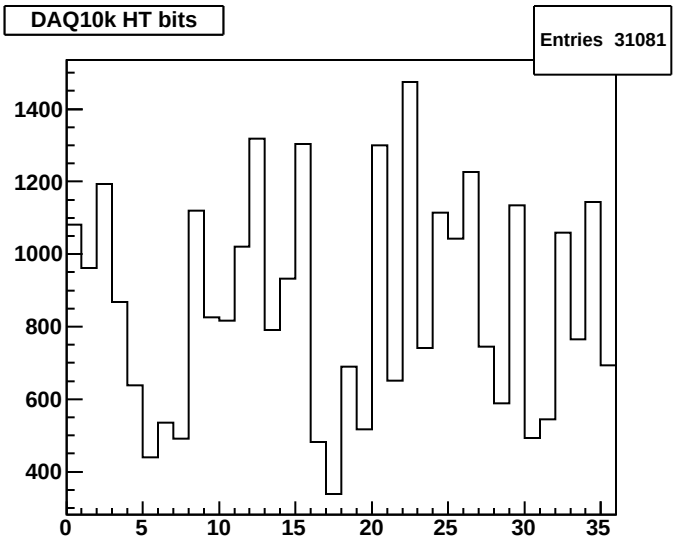

EMC L2 Input - Partial JP Sum
Entries 124
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

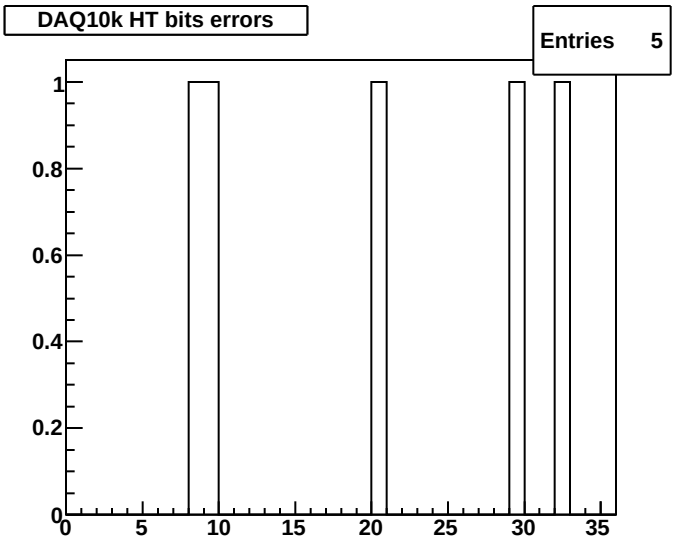

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2251136
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

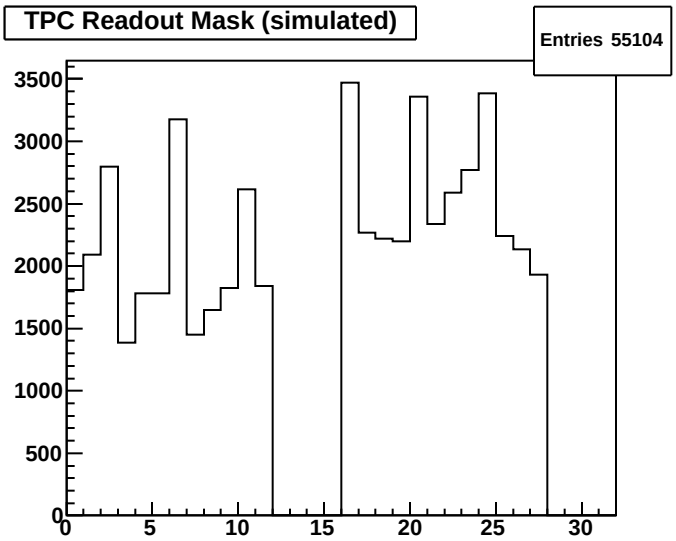

EMC L2 Input - HT01 bits/Partial JP ID
Entries 28
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

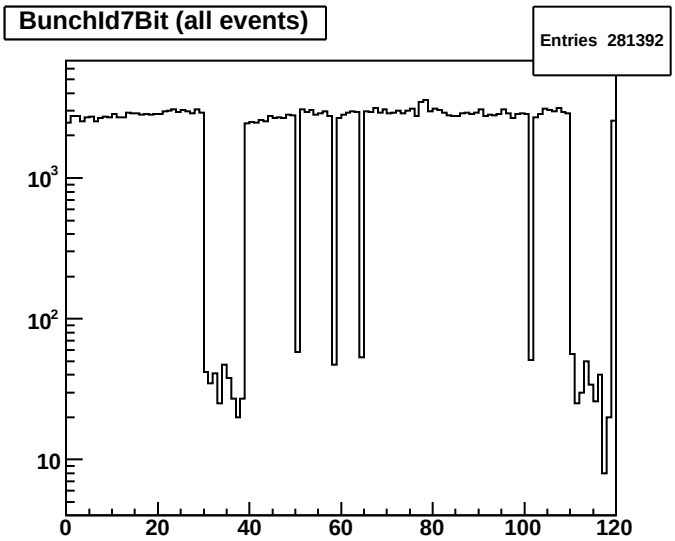

EMC L2 Input - HT23 bits
Entries 2251136
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

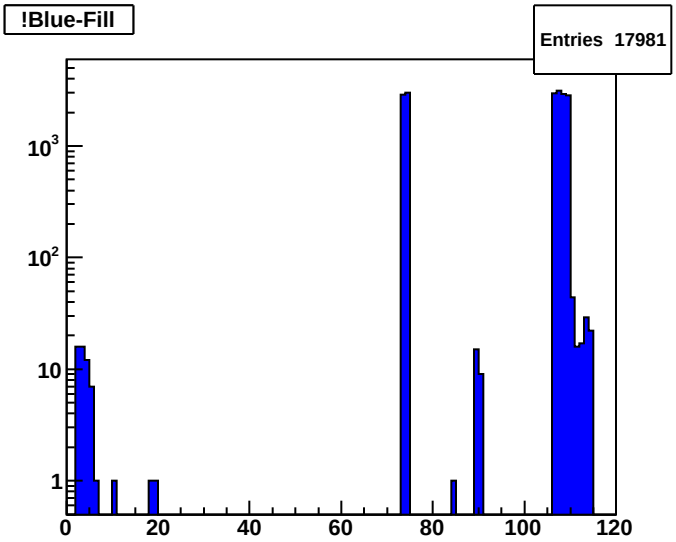

EMC L2 Input - HT23 bits
Entries 8
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

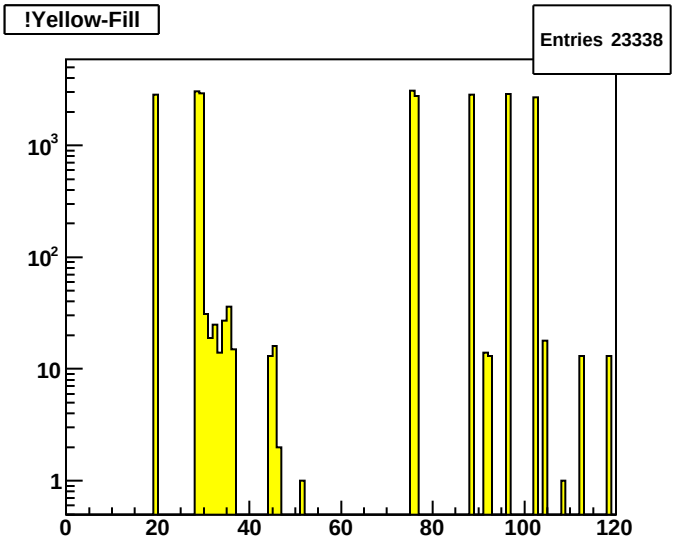

DAQ10k HT bits
Entries 31081

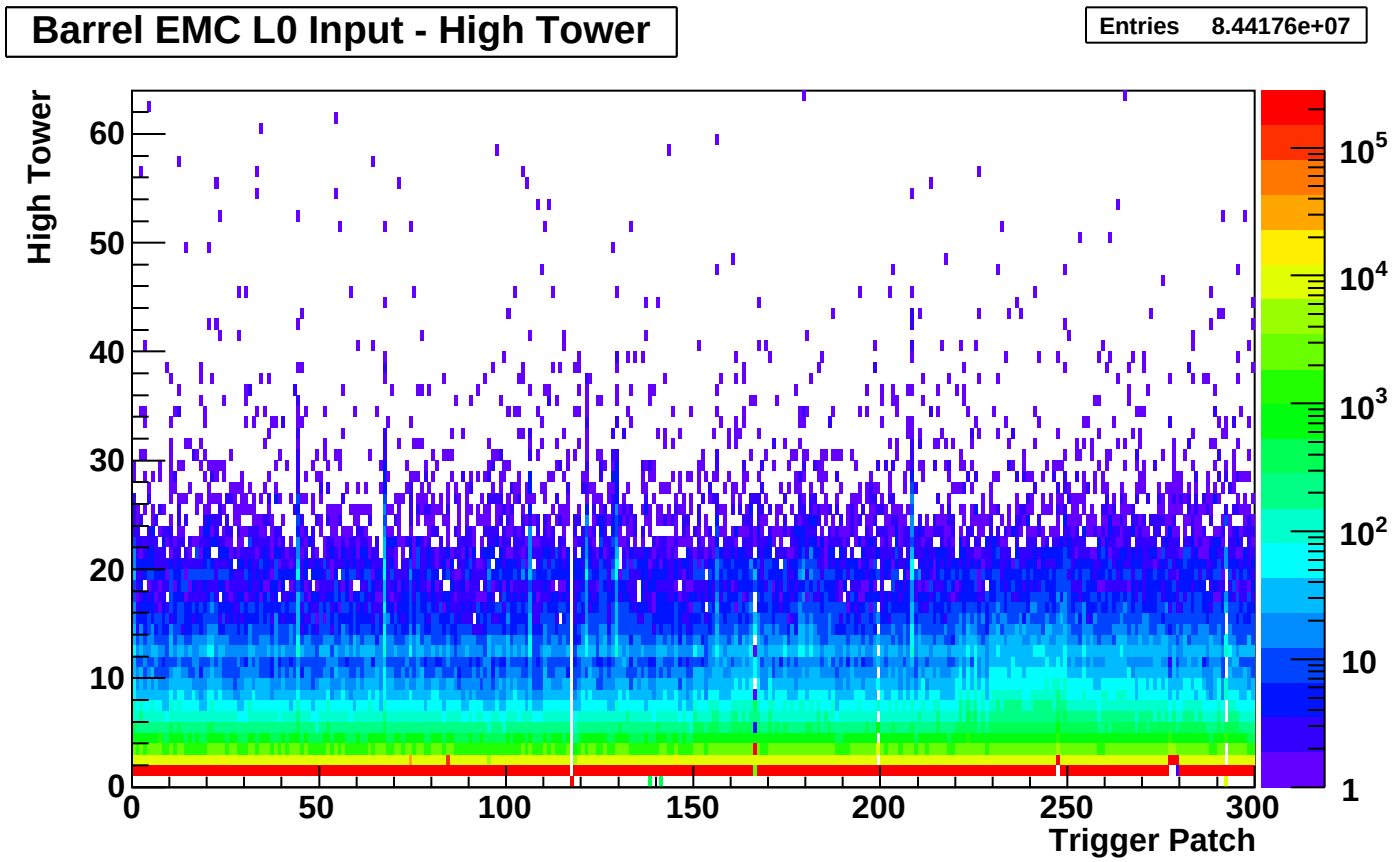

DAQ10k HT bits errors
Entries 5

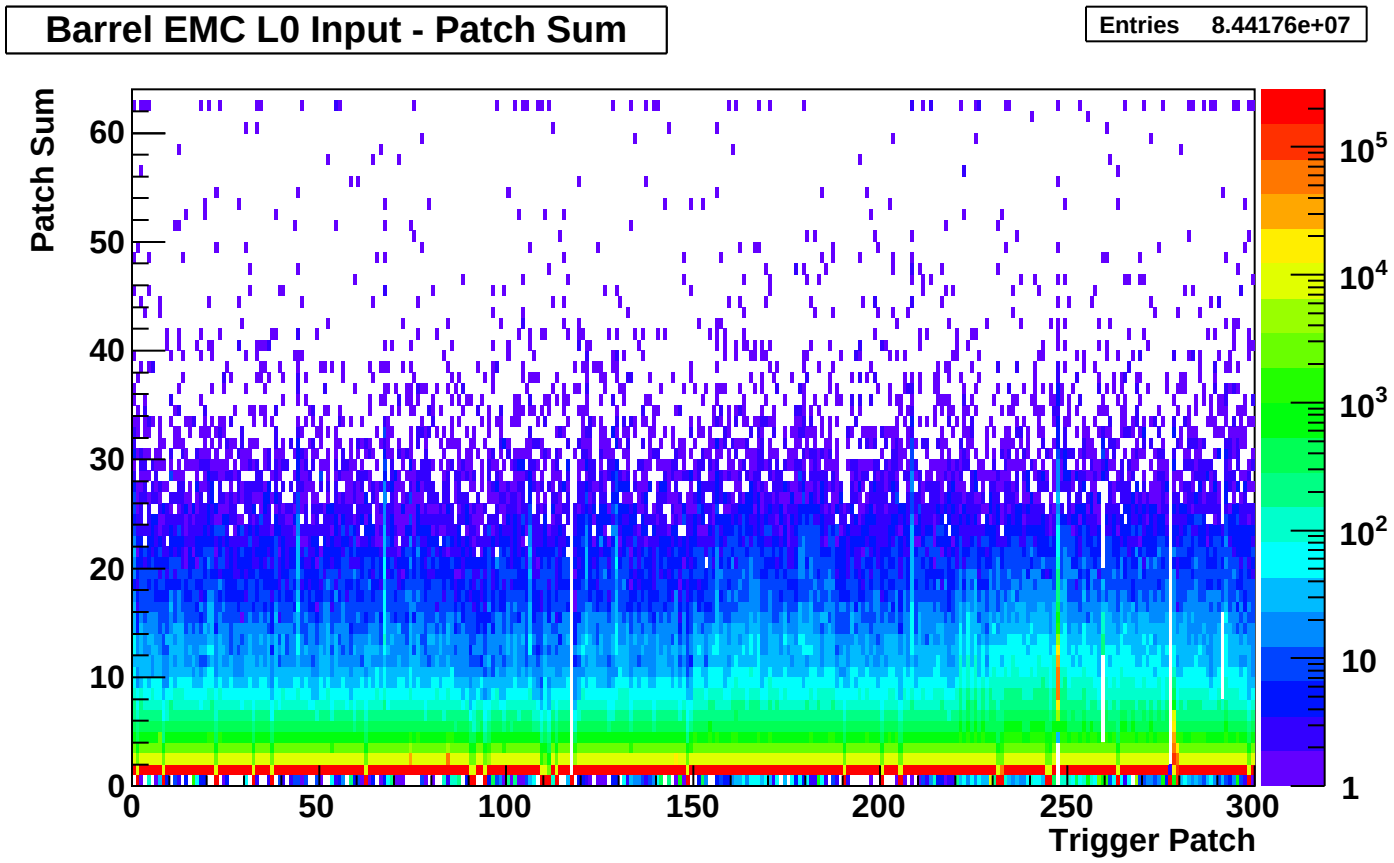

TPC Readout Mask (simulated)
Entries 55104

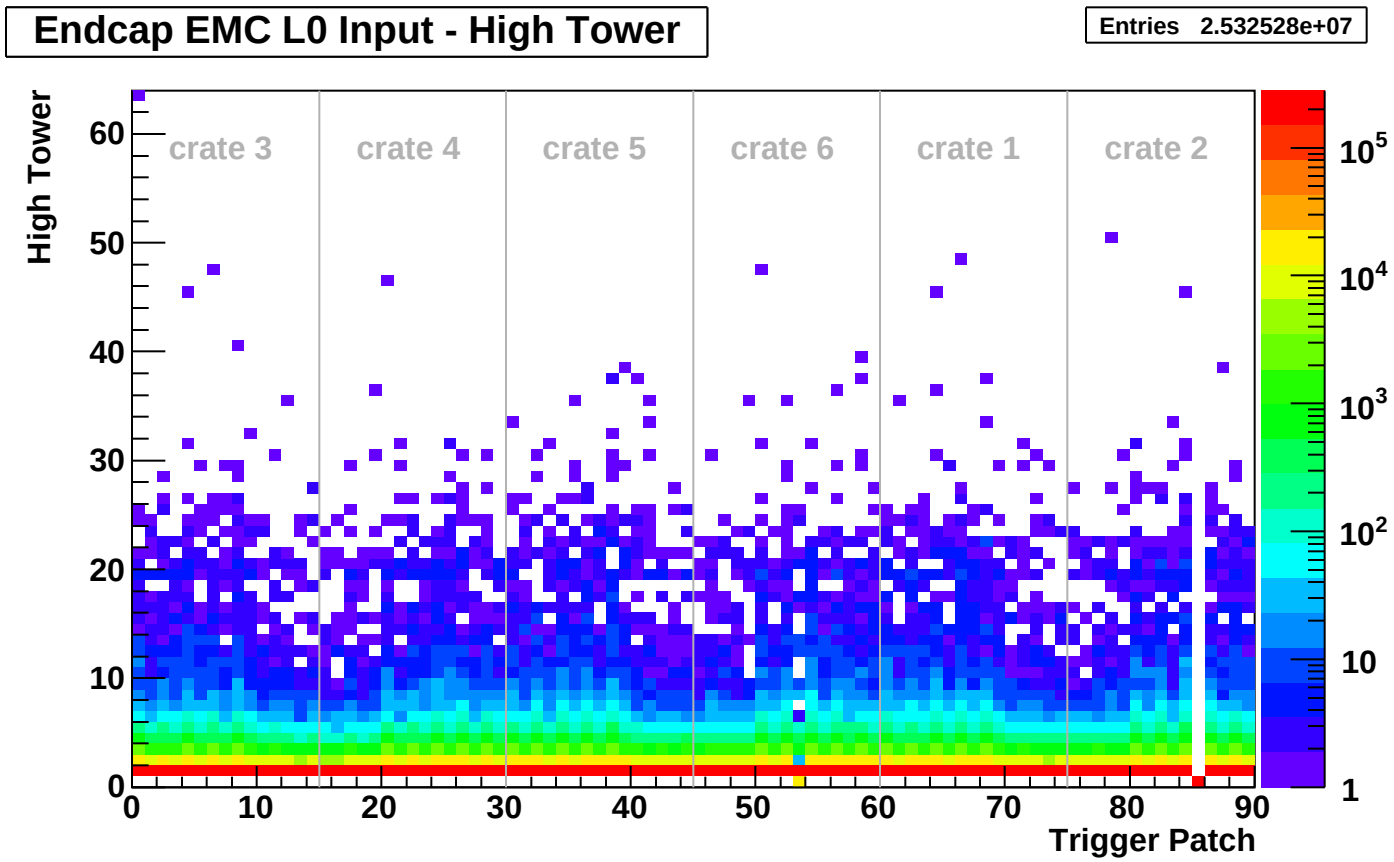

BunchId7Bit (all events)
Entries 281392

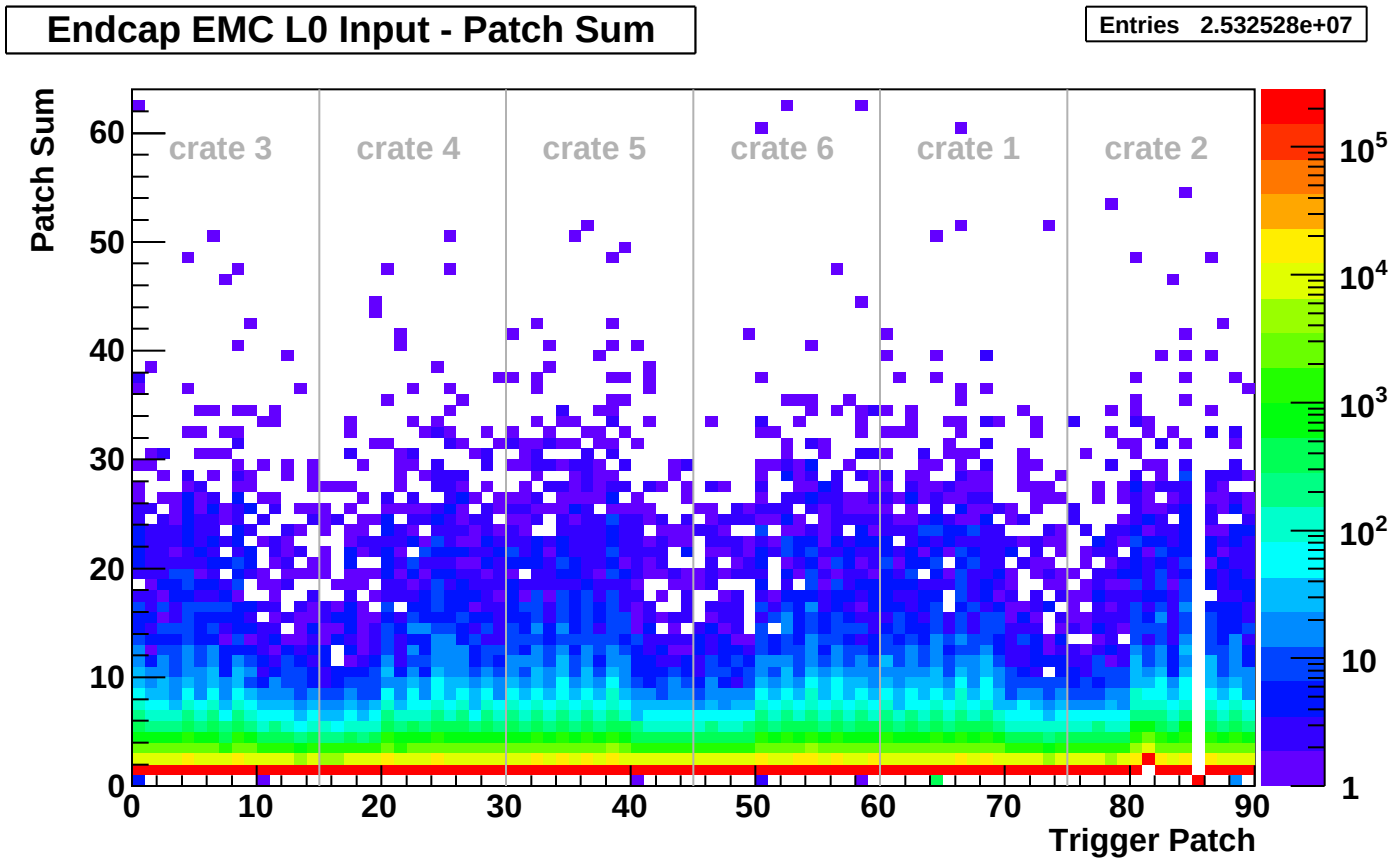

!Blue-Fill
Entries 17981

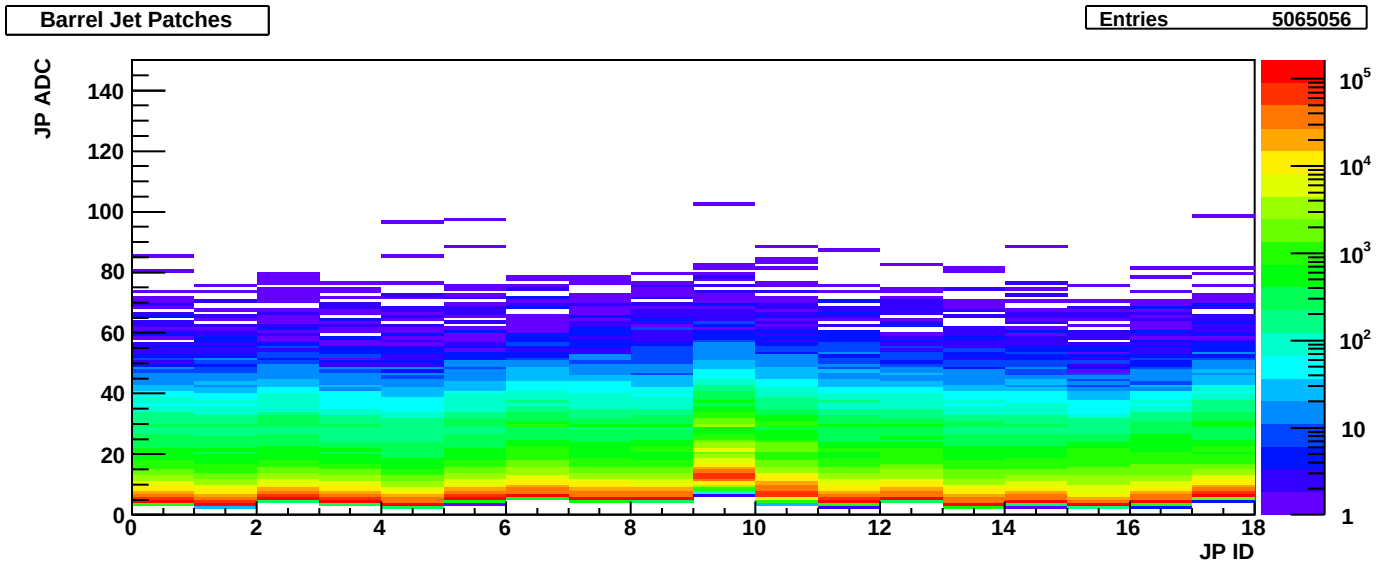

!Yellow-Fill
Entries 23338

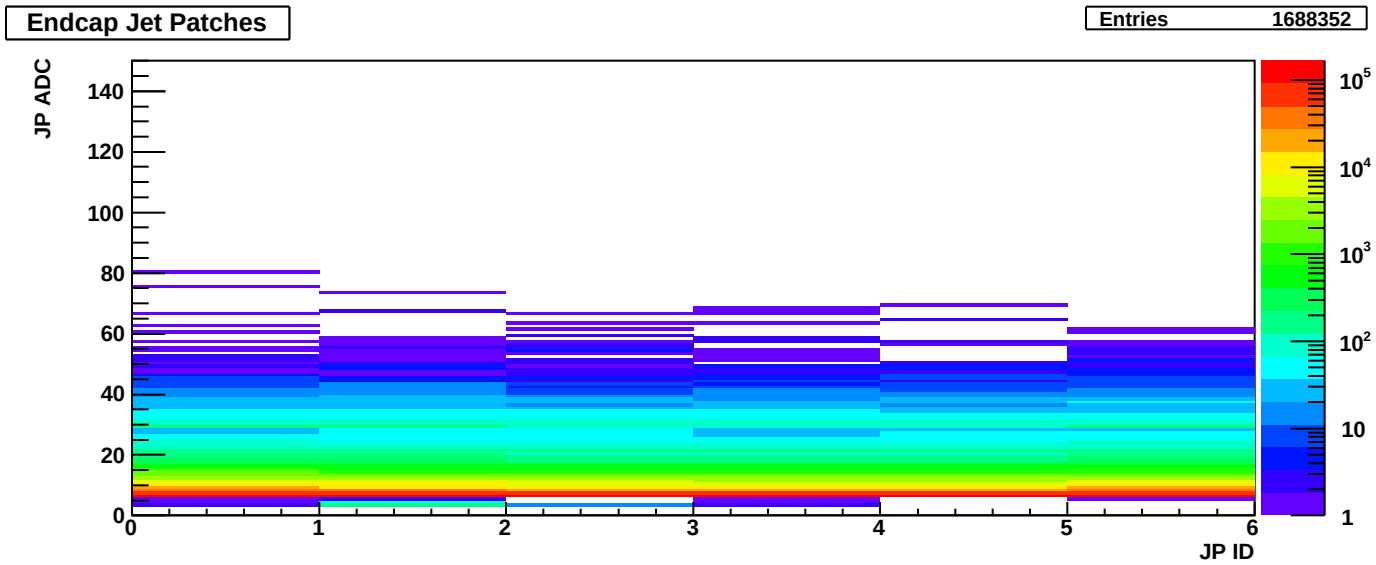

Barrel EMC L0 Input - High Tower
Entries 8.44176e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

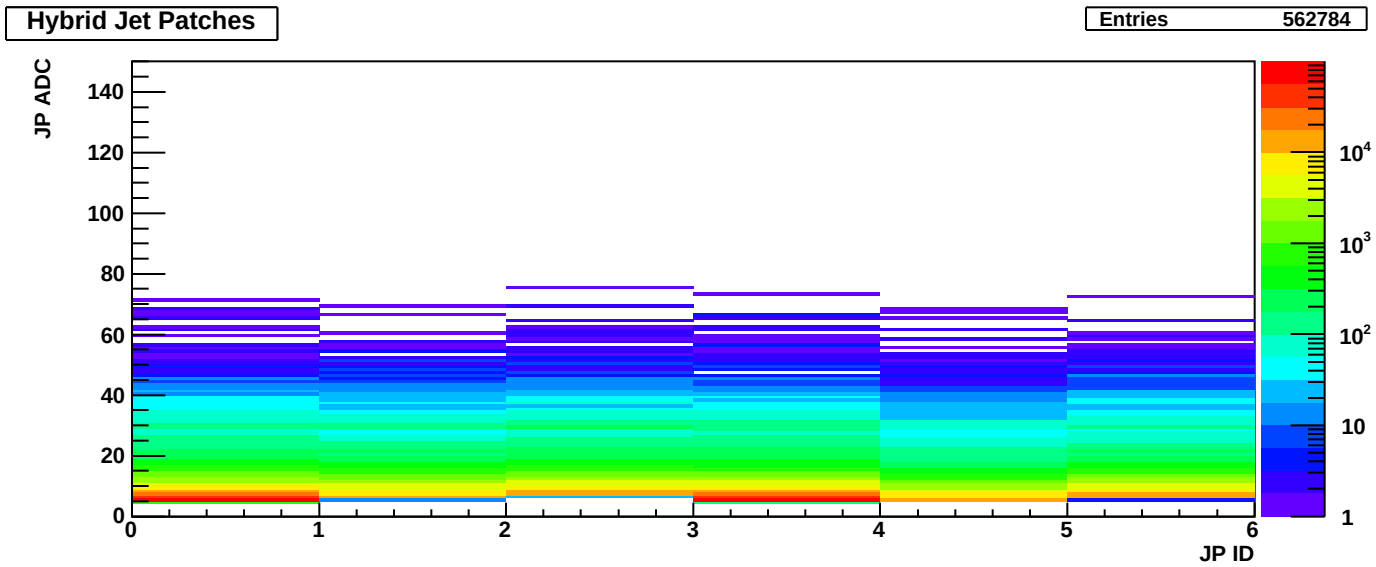

Barrel EMC L0 Input - Patch Sum
Entries 8.44176e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

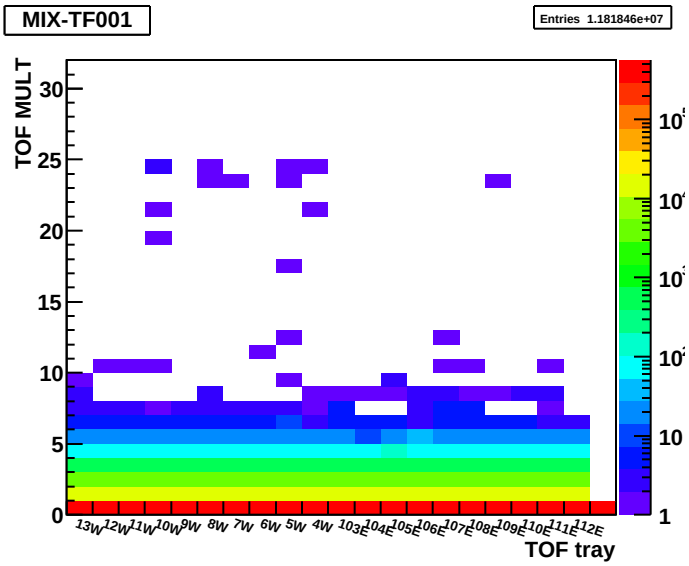

Endcap EMC L0 Input - High Tower
Entries 2.532528e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

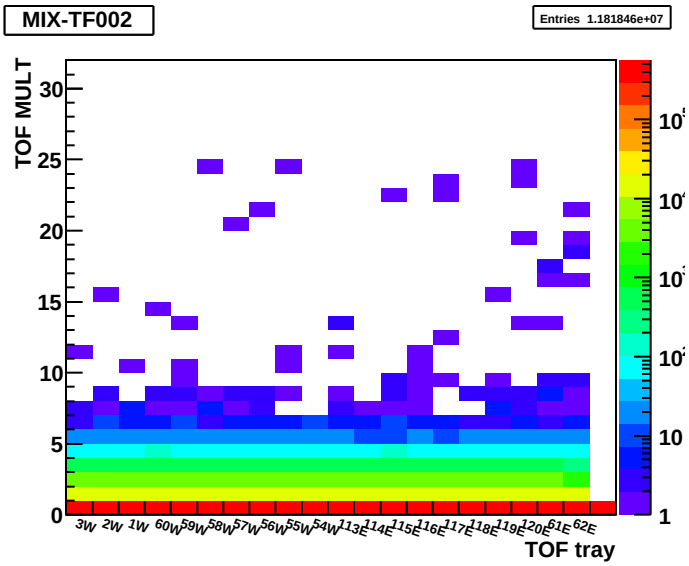

Endcap EMC L0 Input - Patch Sum
Entries 2.532528e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

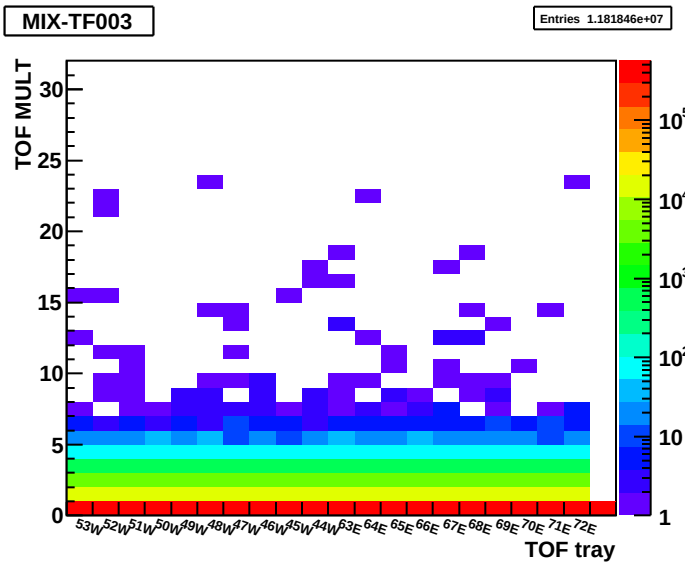

Barrel Jet Patches
Entries 5065056
JP ADC
JP ID

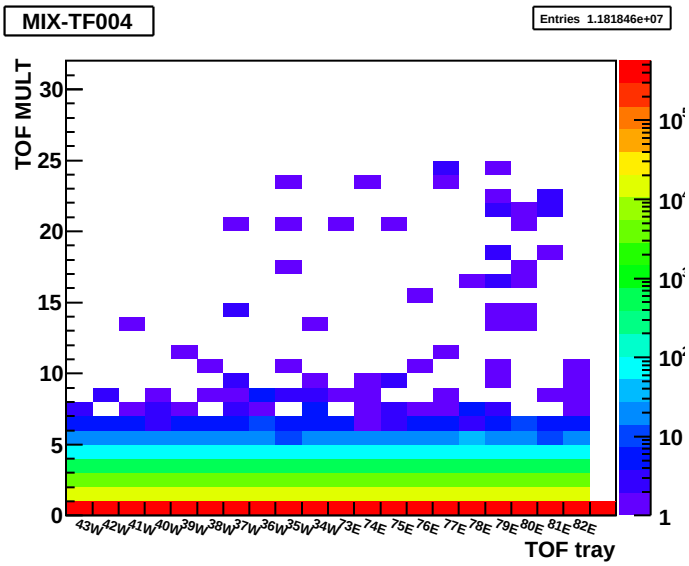

Endcap Jet Patches
Entries 1688352
JP ADC
JP ID

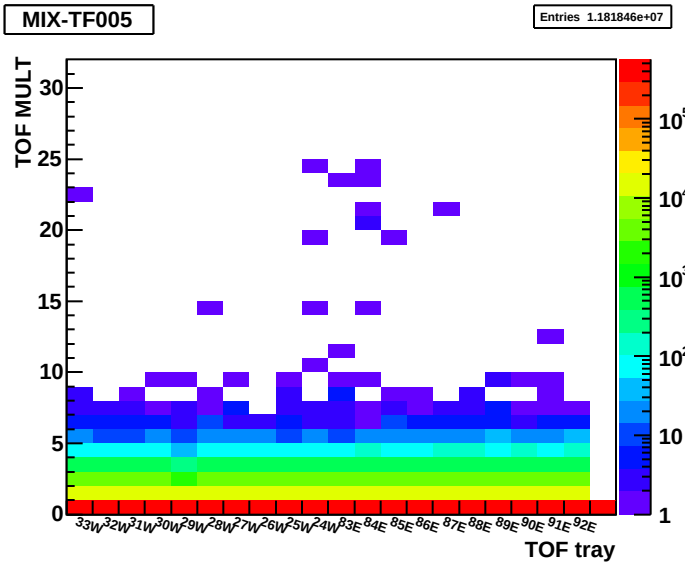

Hybrid Jet Patches
Entries 562784
JP ADC
JP ID

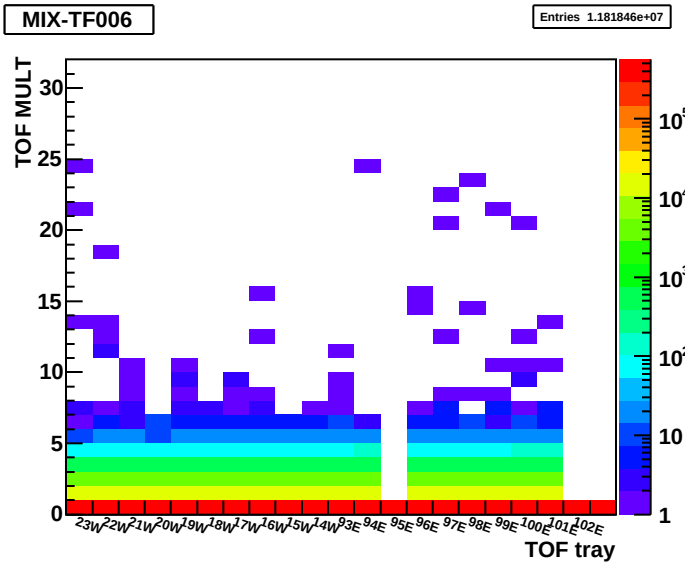

MIX-TF001
Entries 1.181846e+07
TOF MULT
TOF tray

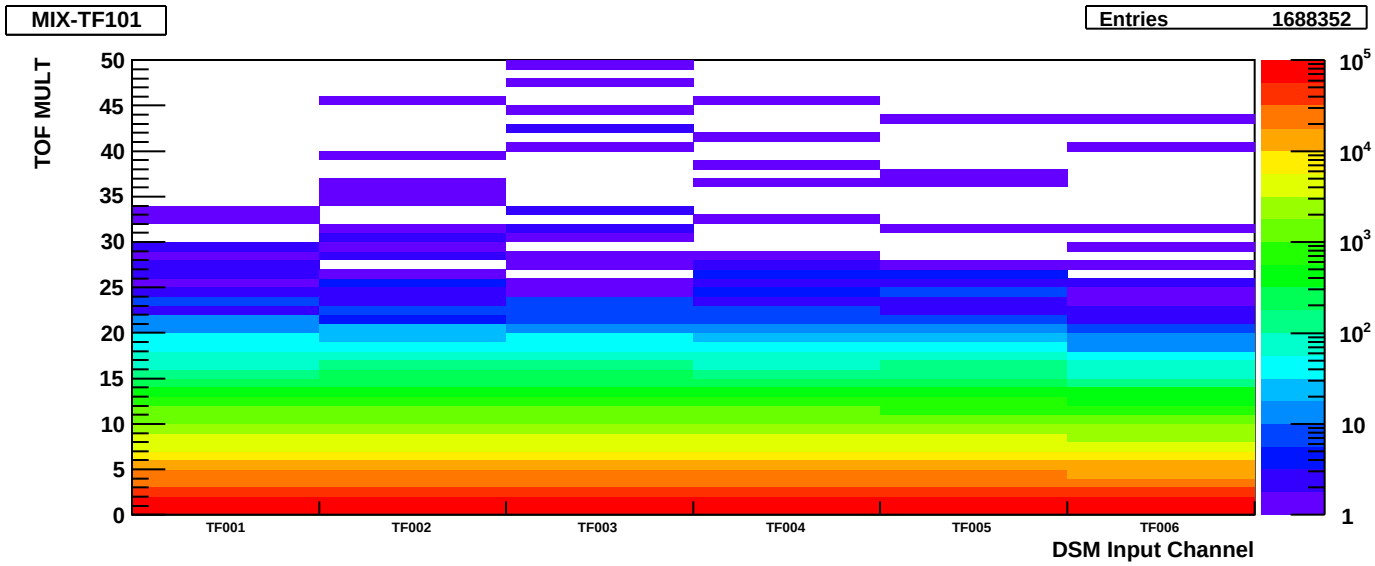

MIX-TF002
Entries 1.181846e+07
TOF MULT
TOF tray

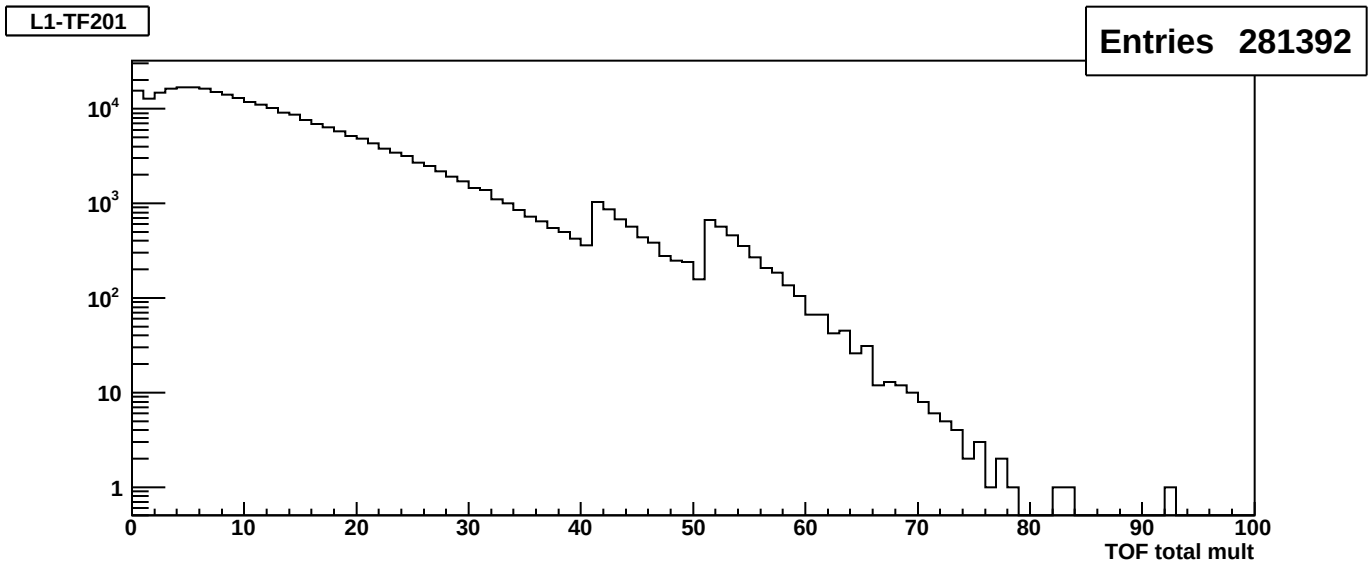

MIX-TF003
Entries 1.181846e+07
TOF MULT
TOF tray

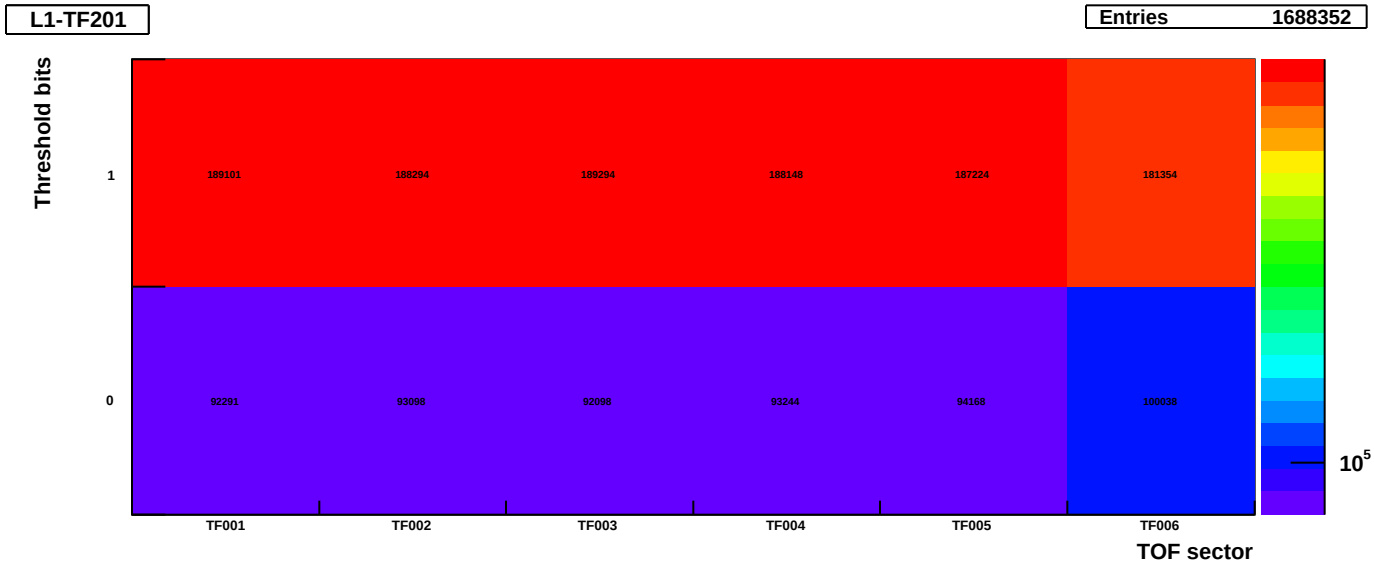

MIX-TF004
Entries 1.181846e+07
TOF MULT
TOF tray

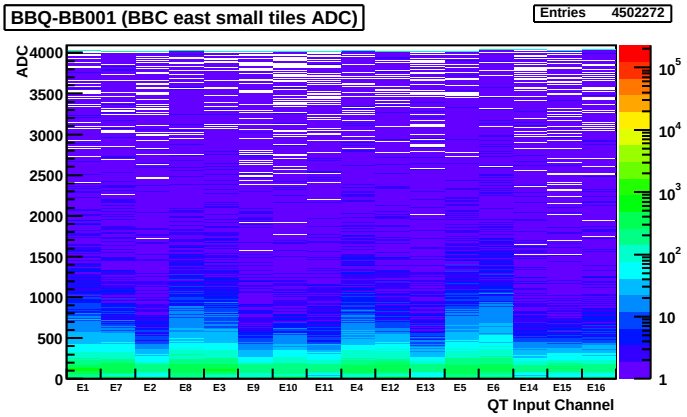

MIX-TF005
Entries 1.181846e+07
TOF MULT
TOF tray

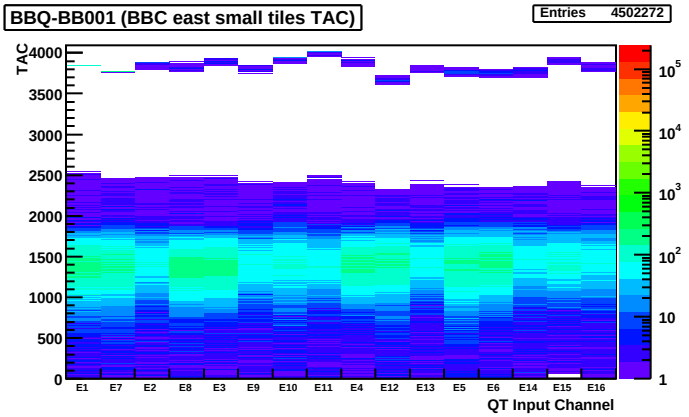

MIX-TF006
Entries 1.181846e+07
TOF MULT
TOF tray

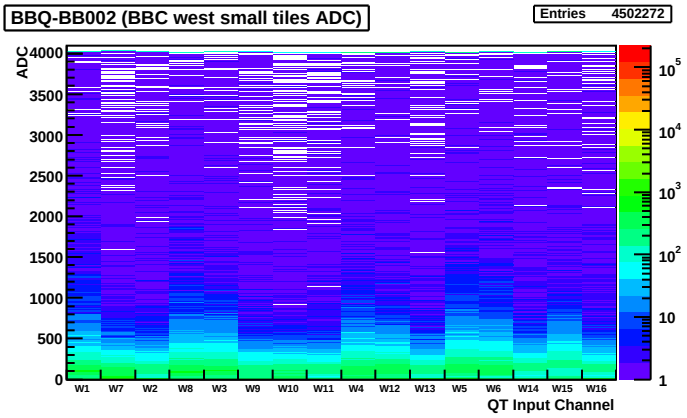

MIX-TF101
Entries 1688352
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

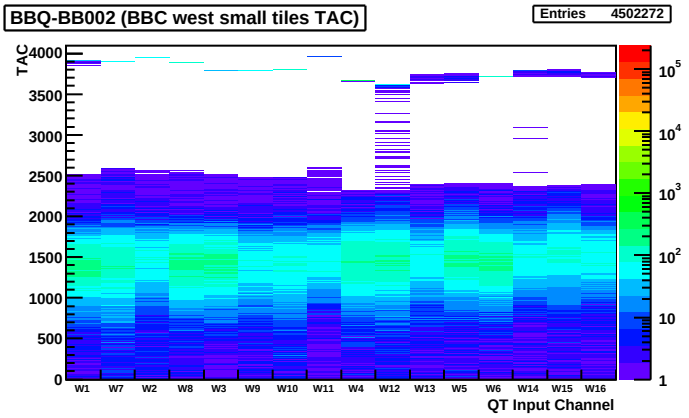

L1-TF201
Entries 281392
TOF total mult

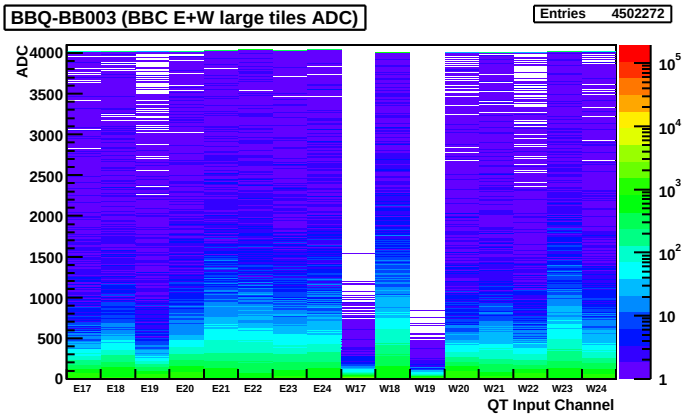

L1-TF201
Entries 1688352
Threshold bits
189101
188294
189294
188148
187224
181354
92291
93098
92098
93244
94168
100038
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

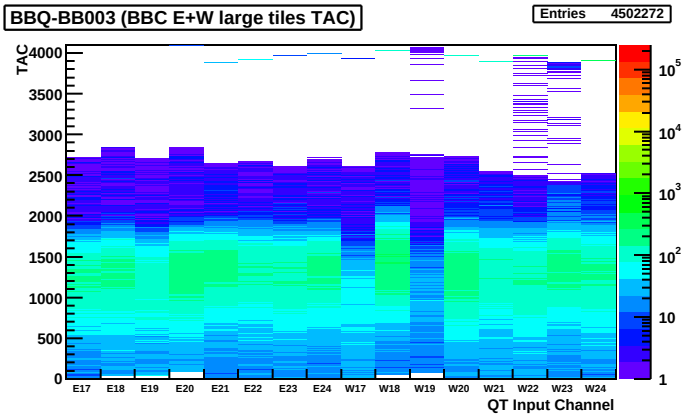

BBQ-BB001 (BBC east small tiles ADC)
Entries 4502272
ADC
QT Input Channel

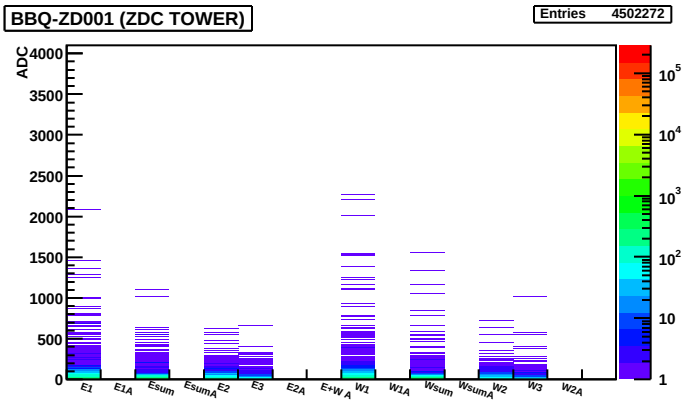

BBQ-BB001 (BBC east small tiles TAC)
Entries 4502272
TAC
QT Input Channel

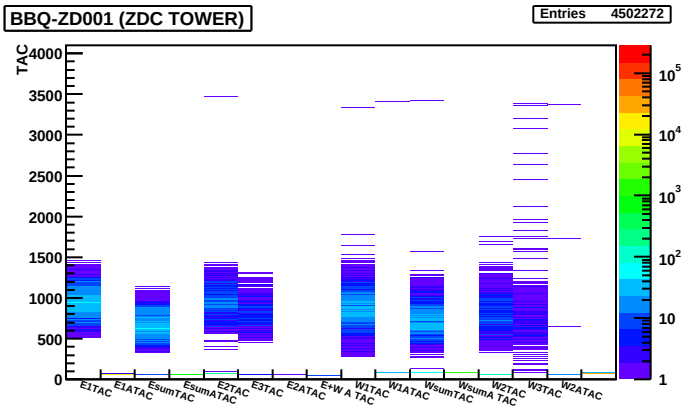

BBQ-BB002 (BBC west small tiles ADC)
Entries 4502272
ADC
QT Input Channel

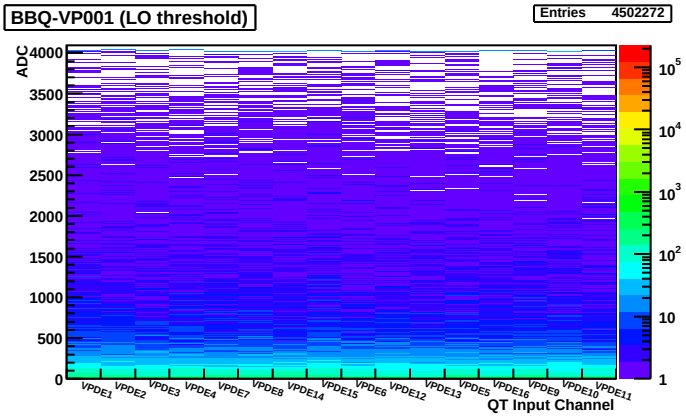

BBQ-BB002 (BBC west small tiles TAC)
Entries 4502272
TAC
QT Input Channel

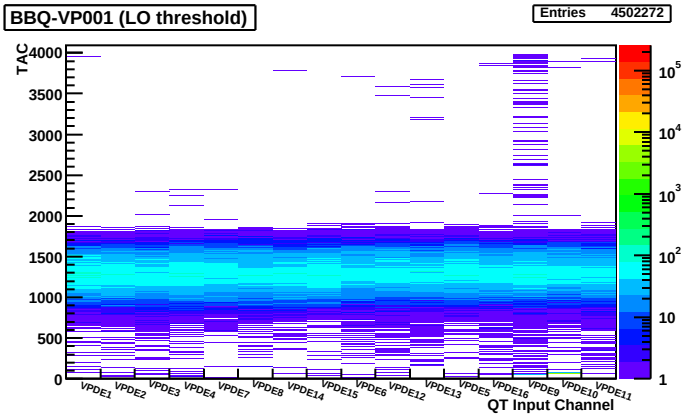

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4502272
ADC
QT Input Channel

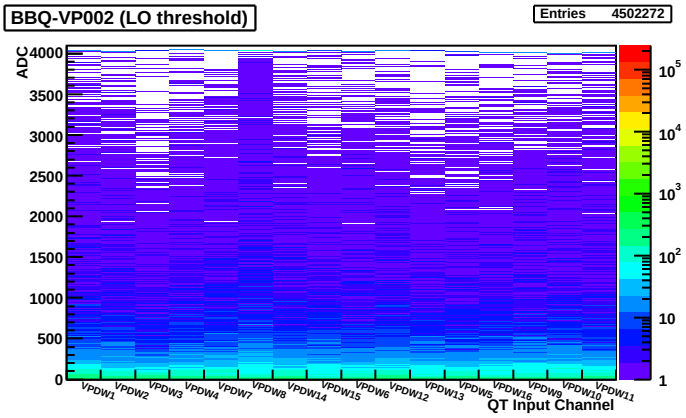

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4502272
TAC
QT Input Channel

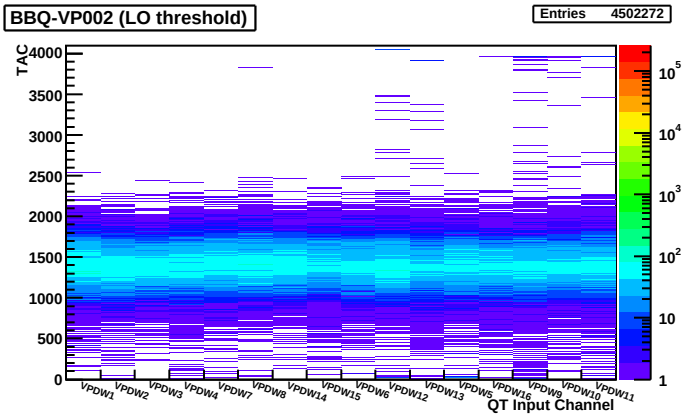

BBQ-ZD001 (ZDC TOWER)
Entries 4502272
ADC

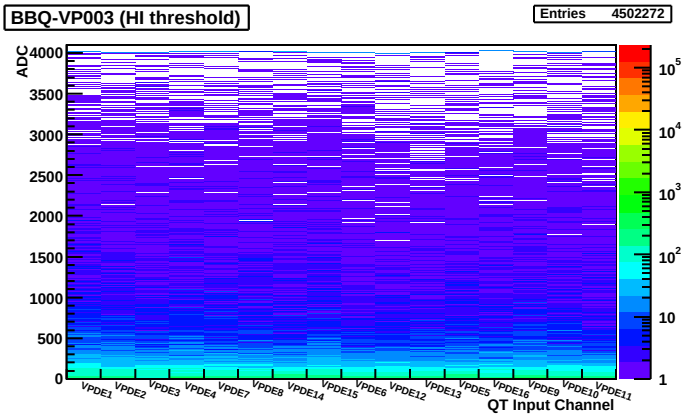

BBQ-ZD001 (ZDC TOWER)
Entries 4502272
TAC

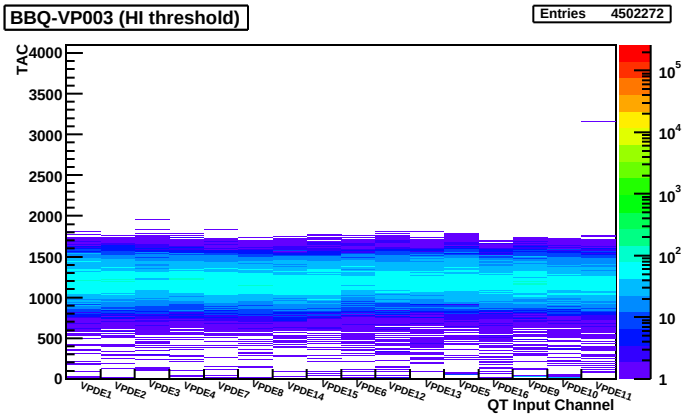

BBQ-VP001 (LO threshold)
Entries 4502272
ADC
QT Input Channel

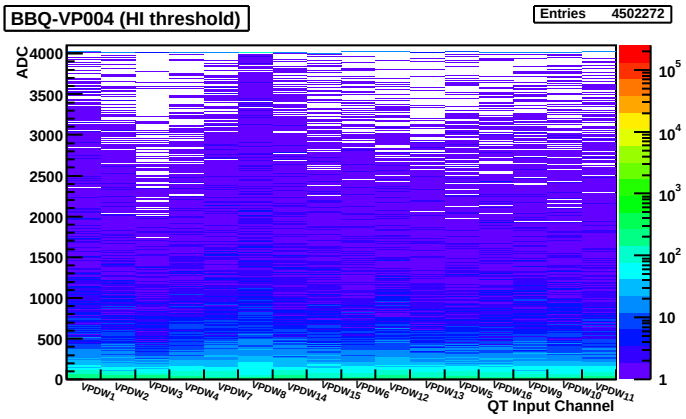

BBQ-VP001 (LO threshold)
Entries 4502272
TAC
QT Input Channel

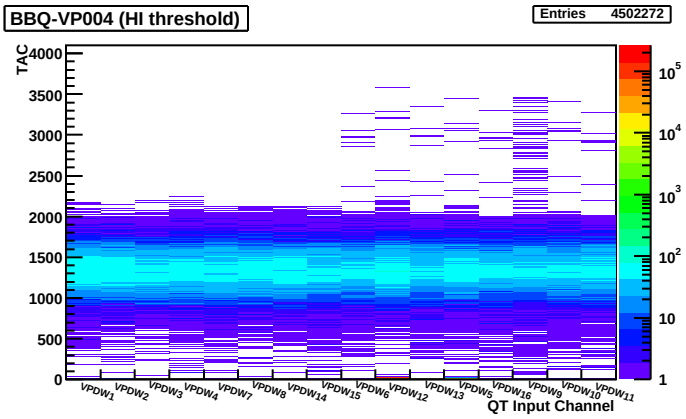

BBQ-VP002 (LO threshold)
Entries 4502272
ADC
QT Input Channel

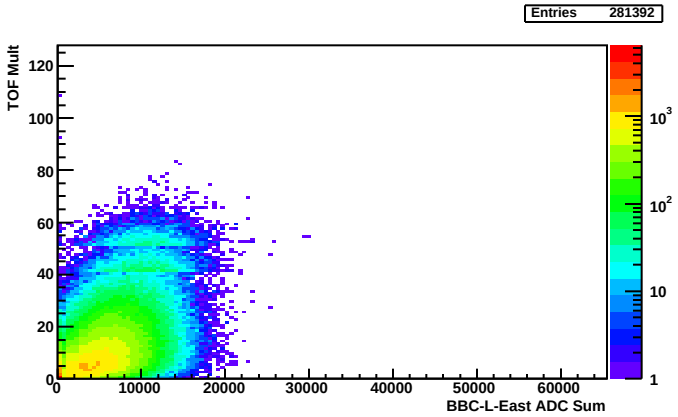

BBQ-VP002 (LO threshold)
Entries 4502272
TAC
QT Input Channel

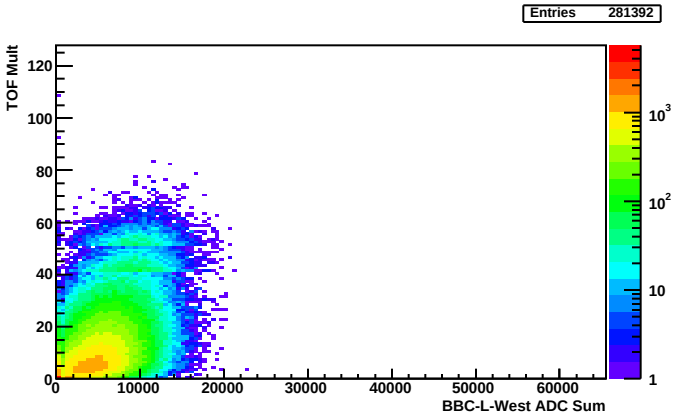

BBQ-VP003 (HI threshold)
Entries 4502272
ADC
QT Input Channel

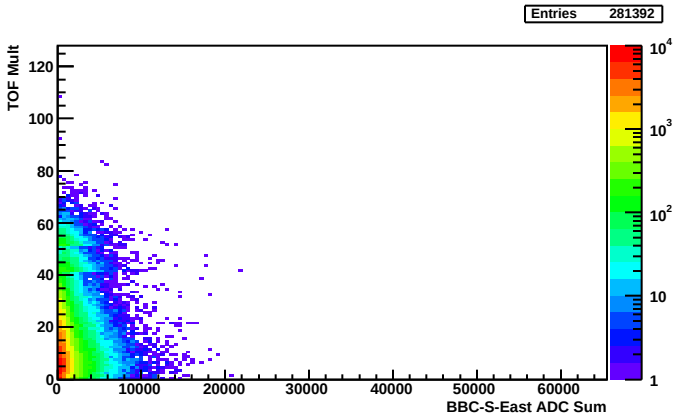

BBQ-VP003 (HI threshold)
Entries 4502272
TAC
QT Input Channel

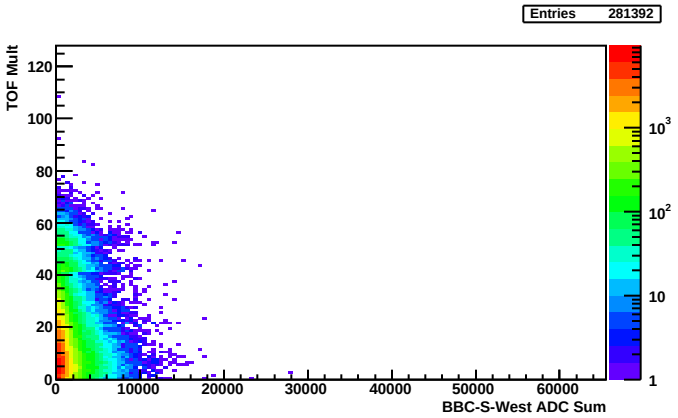

BBQ-VP004 (HI threshold)
Entries 4502272
ADC
QT Input Channel

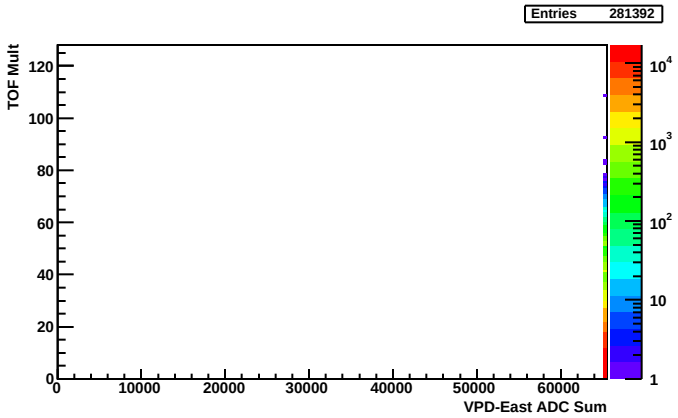

BBQ-VP004 (HI threshold)
Entries 4502272
TAC
QT Input Channel

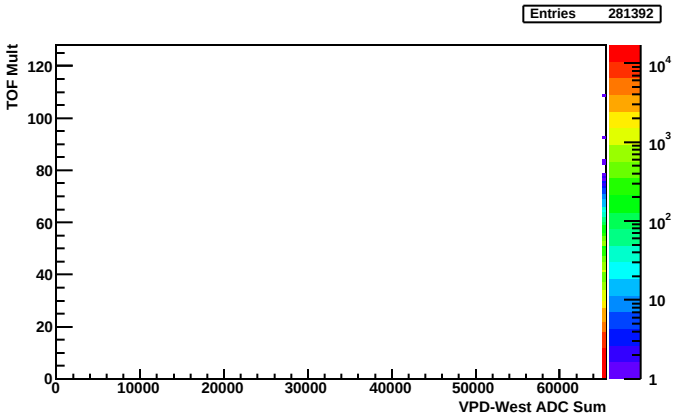

Entries 281392
TOF Mult
BBC-L-East ADC Sum

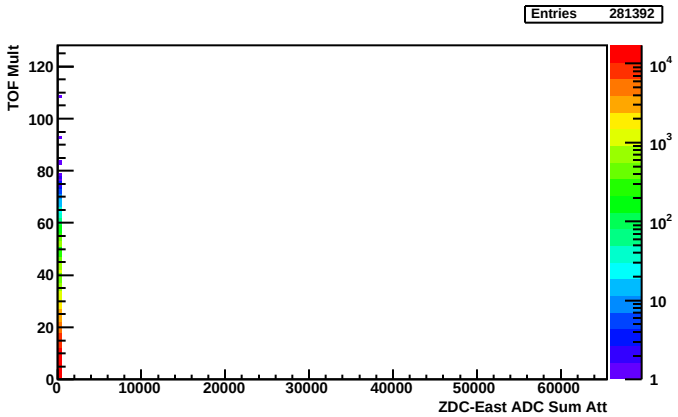

Entries 281392
TOF Mult
BBC-L-West ADC Sum

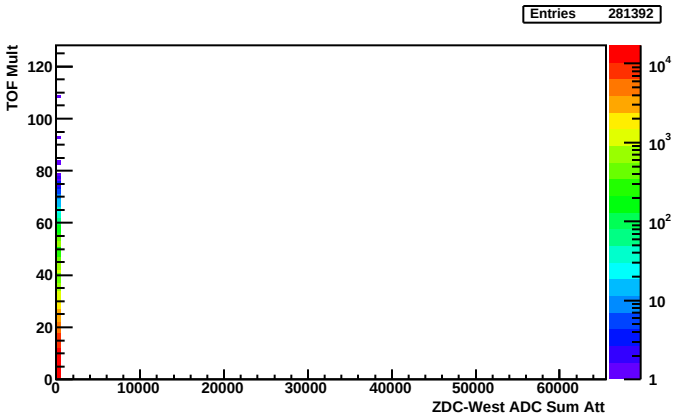

Entries 281392
TOF Mult
BBC-S-East ADC Sum

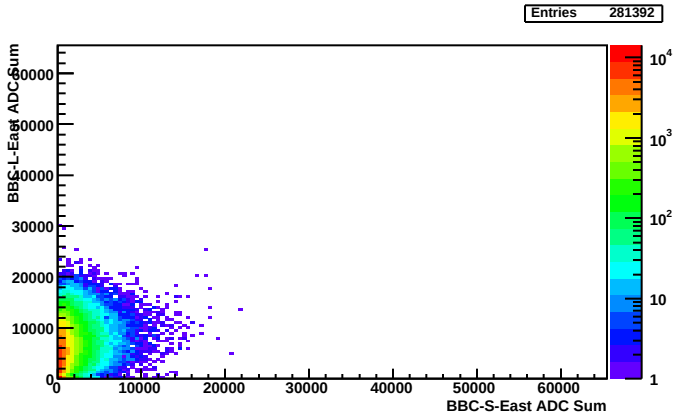

Entries 281392
TOF Mult
BBC-S-West ADC Sum

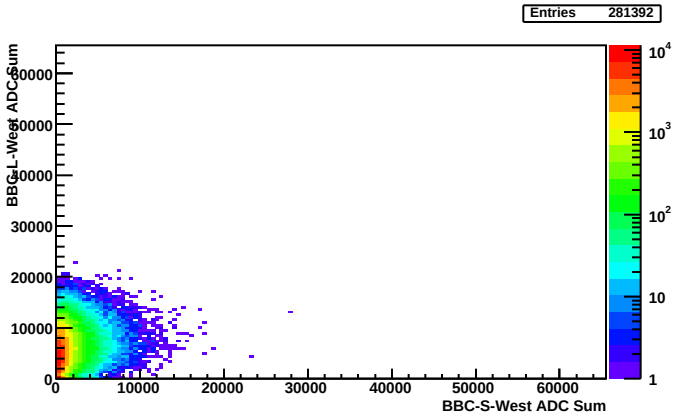

Entries 281392
TOF Mult
VPD-East ADC Sum

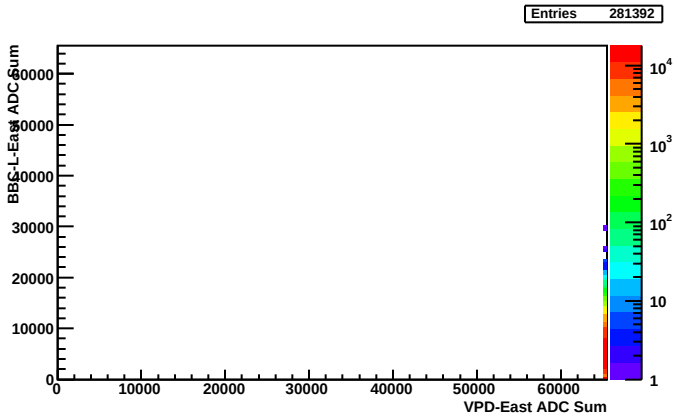

Entries 281392
TOF Mult
VPD-West ADC Sum

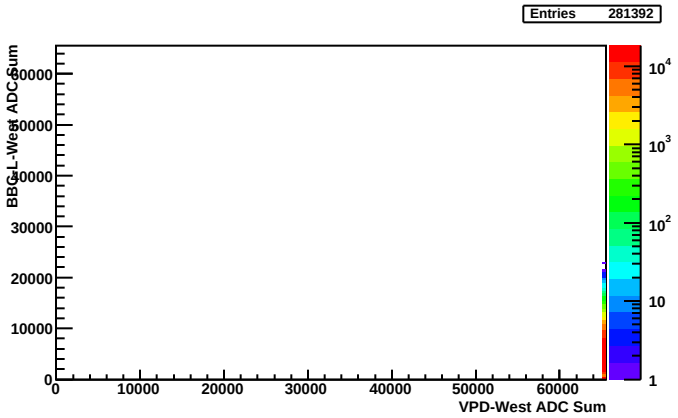

Entries 281392
TOF Mult
ZDC-East ADC Sum Att

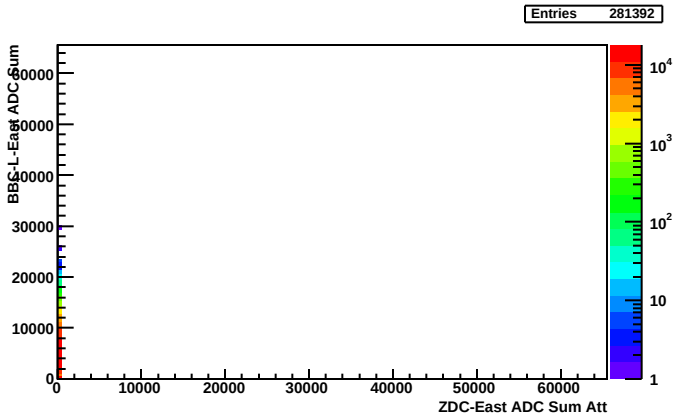

Entries 281392
TOF Mult
ZDC-West ADC Sum Att

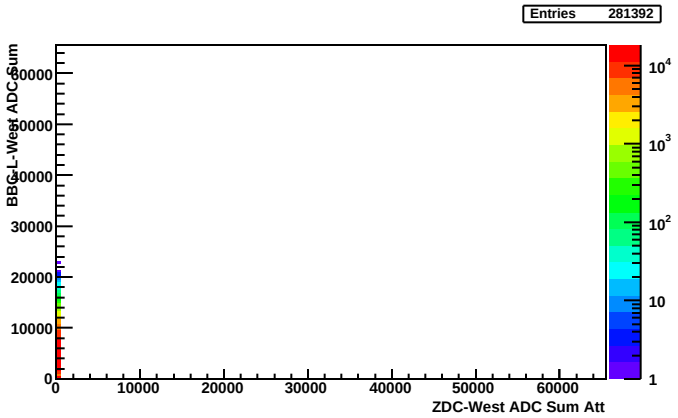

Entries 281392
BBC-L-East ADC Sum
BBC-S-East ADC Sum

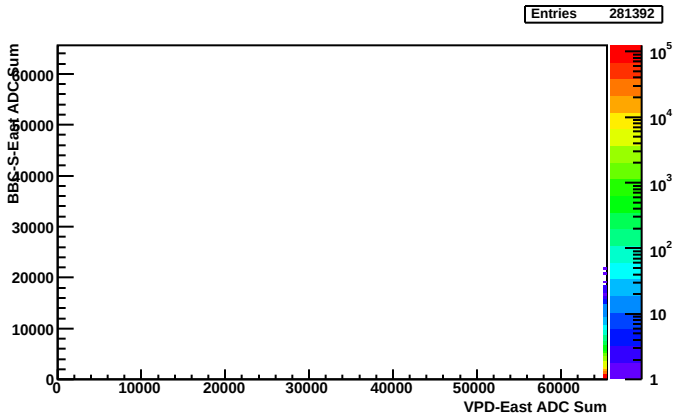

Entries 281392
BBC-L-West ADC Sum
BBC-S-West ADC Sum

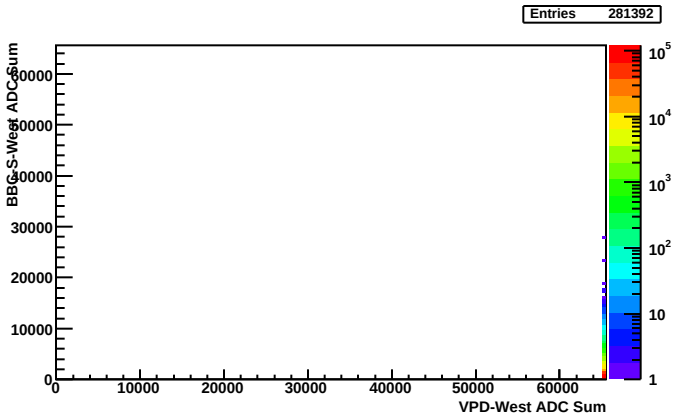

Entries 281392
BBC-L-East ADC Sum
VPD-East ADC Sum

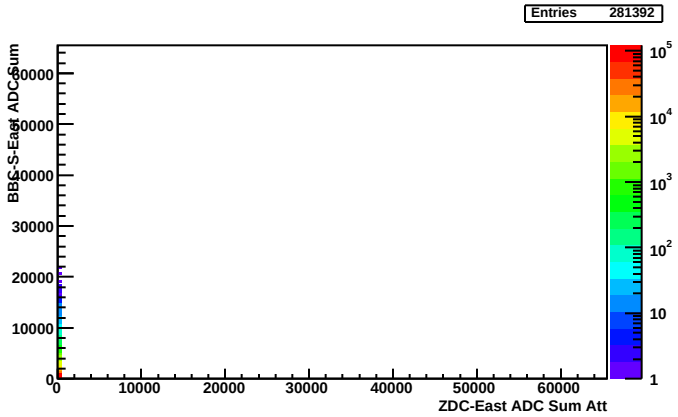

Entries 281392
BBC-L-West ADC Sum
VPD-West ADC Sum

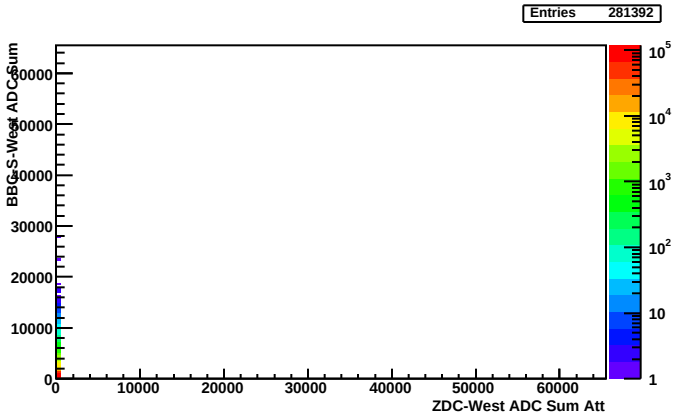

Entries 281392
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

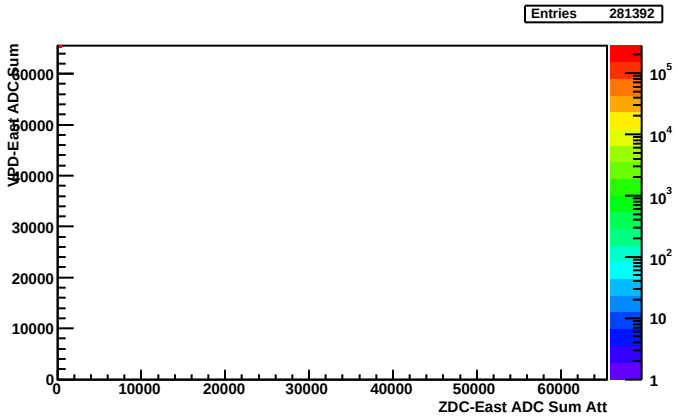

Entries 281392
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

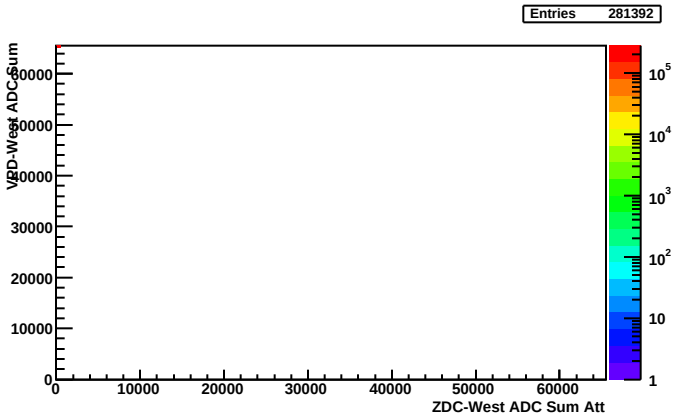

Entries 281392
BBC-S-East ADC Sum
VPD-East ADC Sum

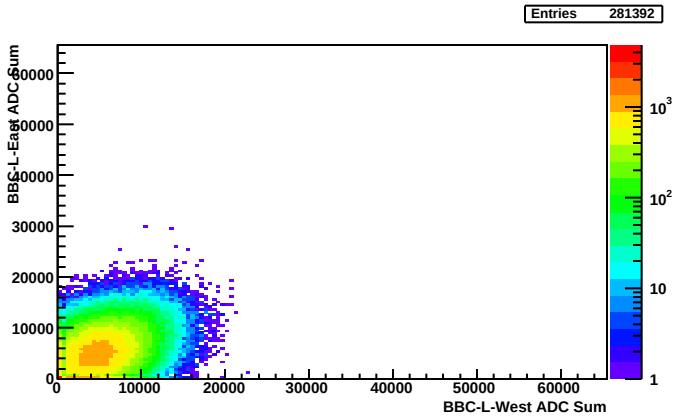

Entries 281392
BBC-S-West ADC Sum
VPD-West ADC Sum

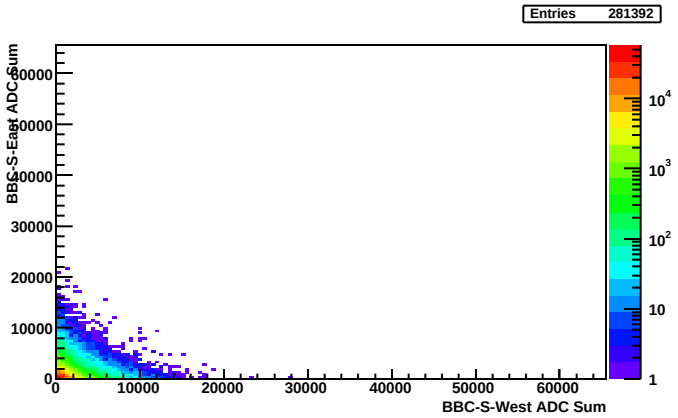

Entries 281392
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

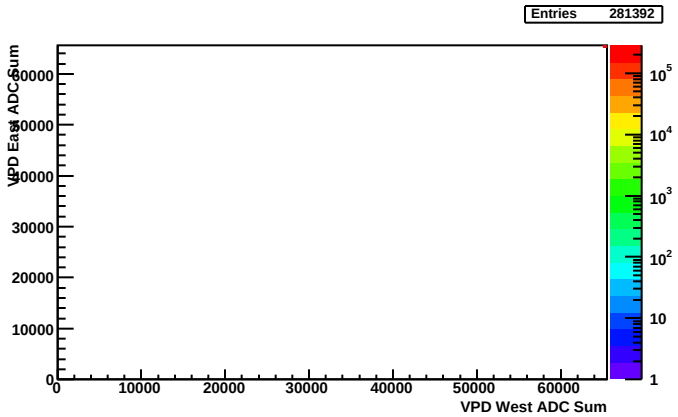

Entries 281392
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

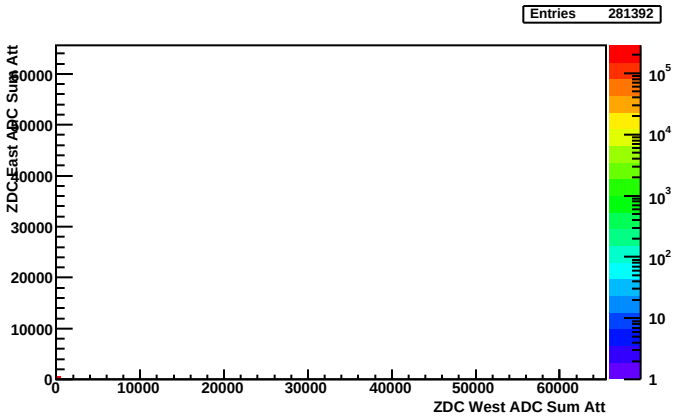

Entries 281392
VPD-East ADC Sum
ZDC-East ADC Sum Att

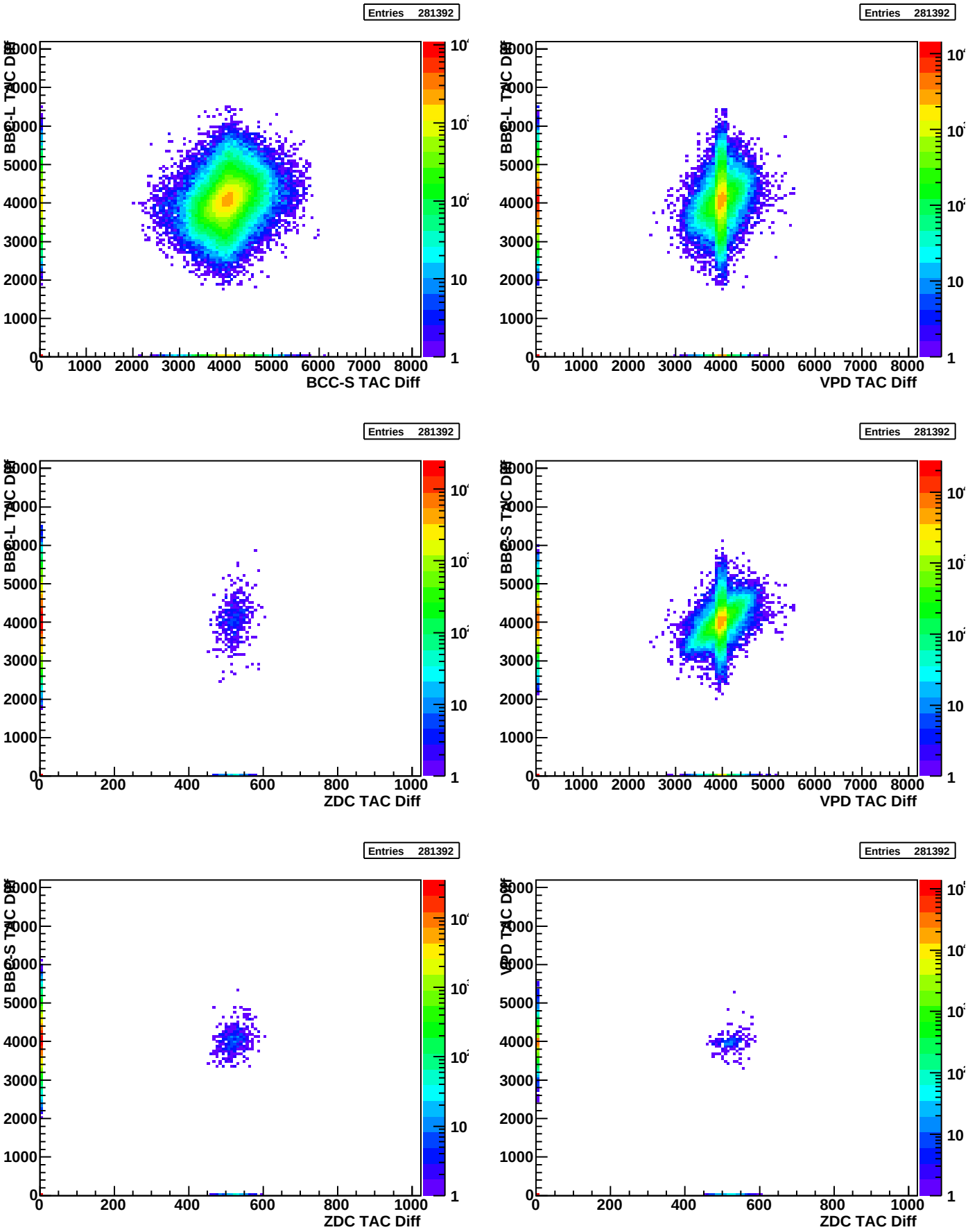

Entries 281392
VPD-West ADC Sum
ZDC-West ADC Sum Att

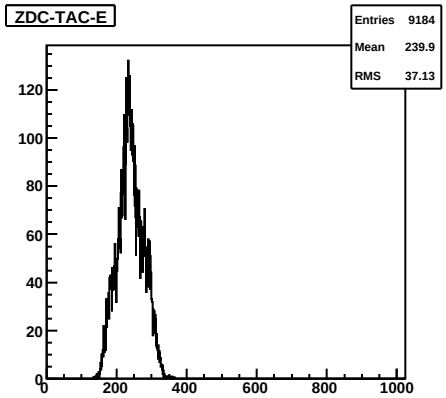

Entries 281392
BBC-L-East ADC Sum
BBC-L-West ADC Sum

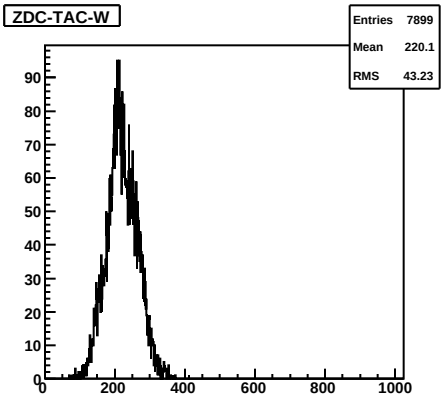

Entries 281392
BBC-S-East ADC Sum
BBC-S-West ADC Sum

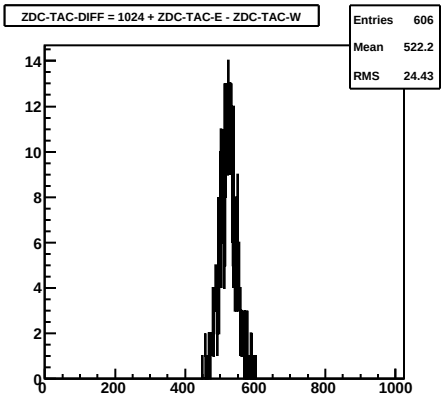

Entries 281392
VPD East ADC Sum
VPD West ADC Sum

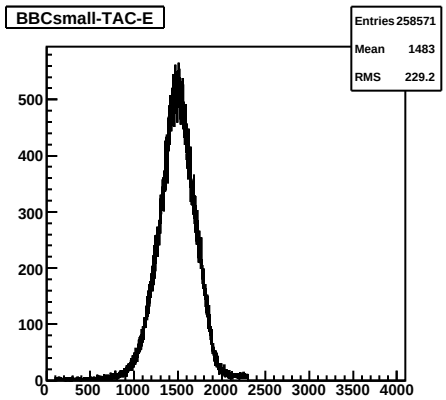

Entries 281392
ZDC East ADC Sum Att
ZDC West ADC Sum Att

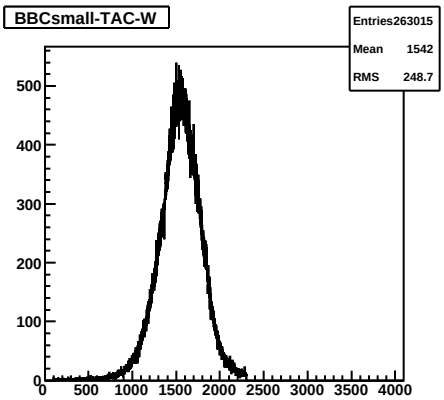

Entries 281392
BBC-L TAC Diff
BCC-S TAC Diff
Entries 281392
BBC-L TAC Diff
VPD TAC Diff
Entries 281392
BBC-L TAC Diff
ZDC TAC Diff
Entries 281392
BBC-S TAC Diff
VPD TAC Diff
Entries 281392
BBC-S TAC Diff
ZDC TAC Diff
Entries 281392
VPD TAC Diff
ZDC TAC Diff

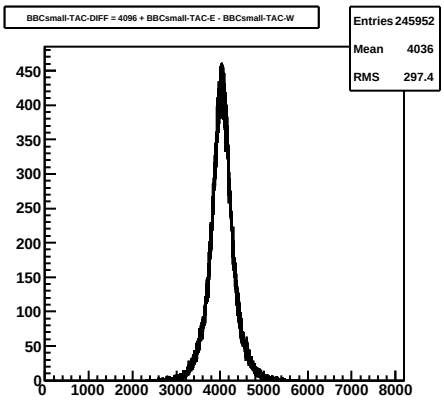

ZDC-TAC-E
Entries 9184
Mean 239.9
RMS 37.13

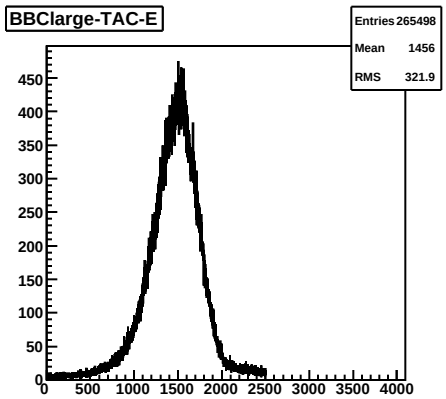

ZDC-TAC-W
Entries 7899
Mean 220.1
RMS 43.23

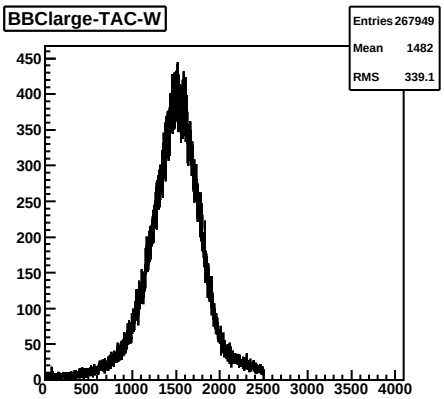

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 606
Mean 522.2
RMS 24.43

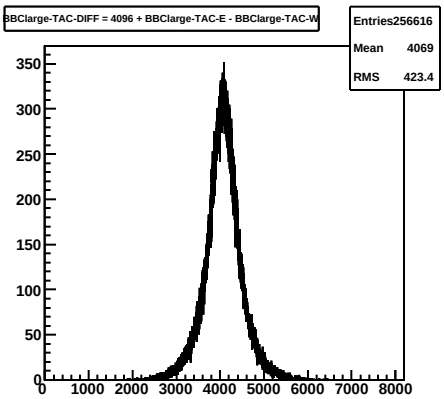

BBCsmall-TAC-E
Entries 258571
Mean 1483
RMS 229.2

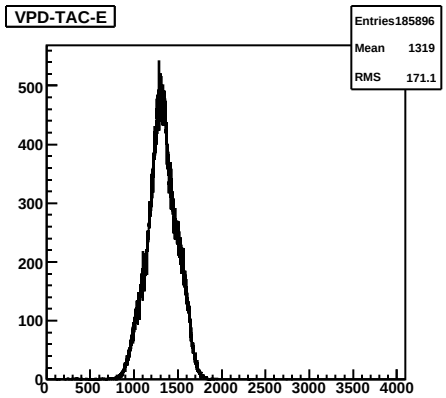

BBCsmall-TAC-W
Entries 263015
Mean 1542
RMS 248.7

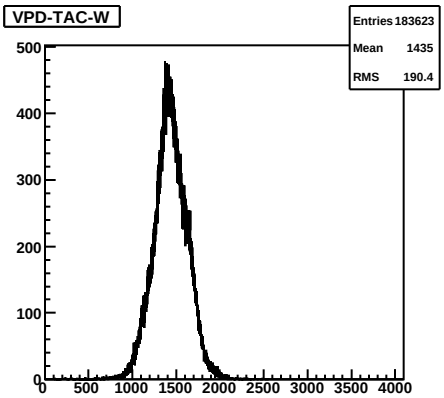

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 245952
Mean 4036
RMS 297.4

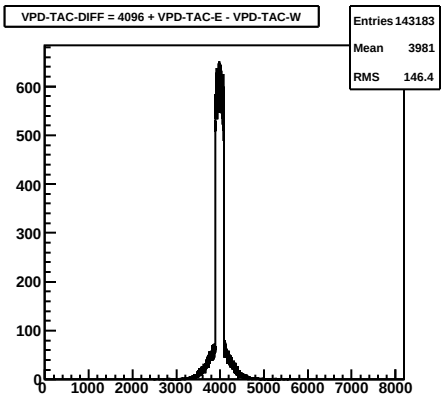

BBClarge-TAC-E
Entries 265498
Mean 1456
RMS 321.9

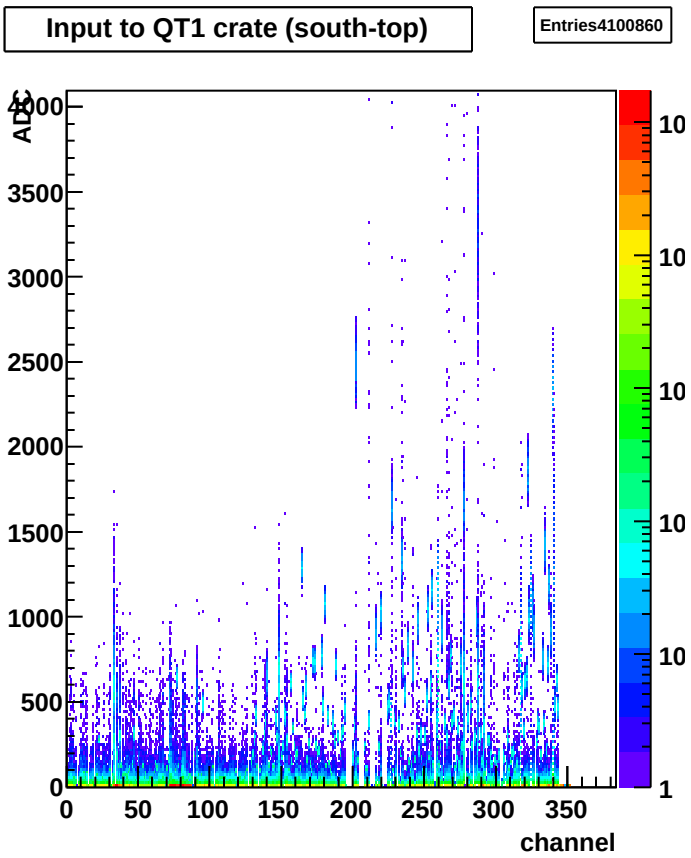

BBClarge-TAC-W
Entries 267949
Mean 1482
RMS 339.1

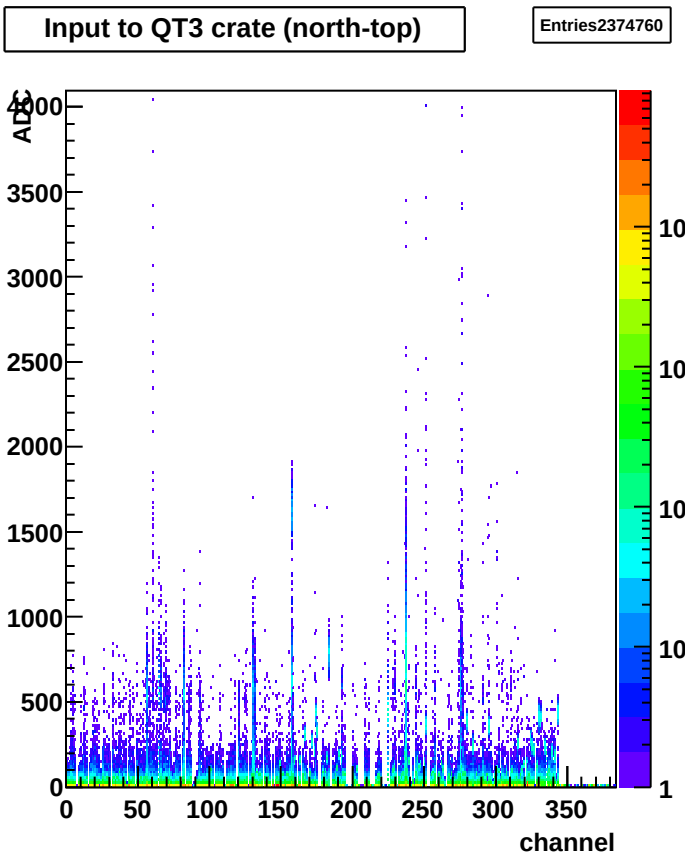

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 256616
Mean 4069
RMS 423.4

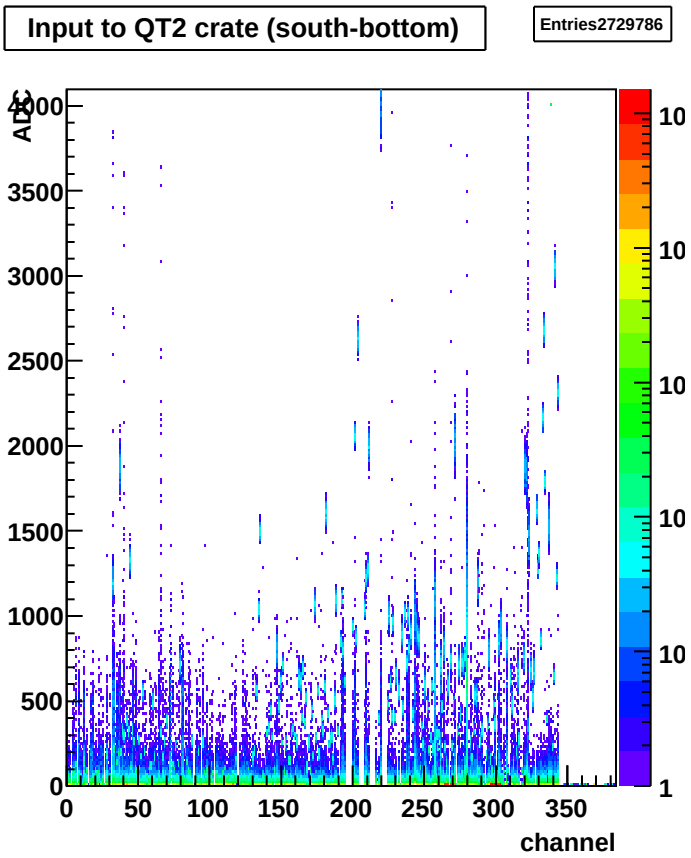

VPD-TAC-E
Entries 185896
Mean 1319
RMS 171.1

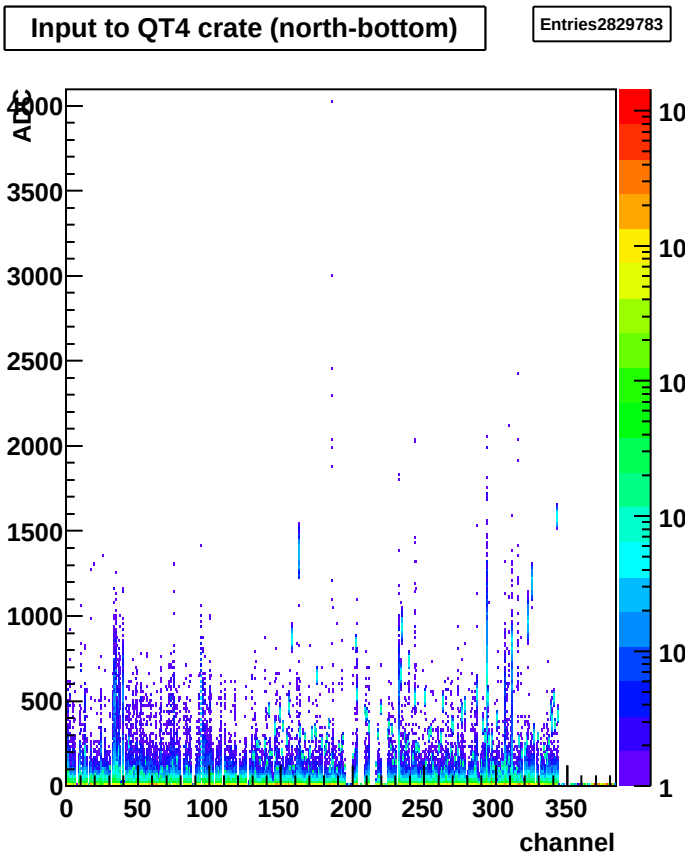

VPD-TAC-W
Entries 183623
Mean 1435
RMS 190.4

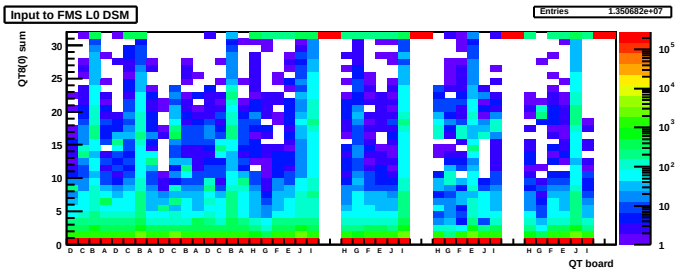

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 143183
Mean 3981
RMS 146.4

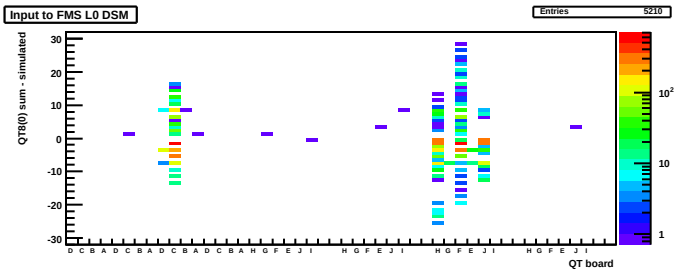

Input to QT1 crate (south-top)
Entries4100860
ADC
channel

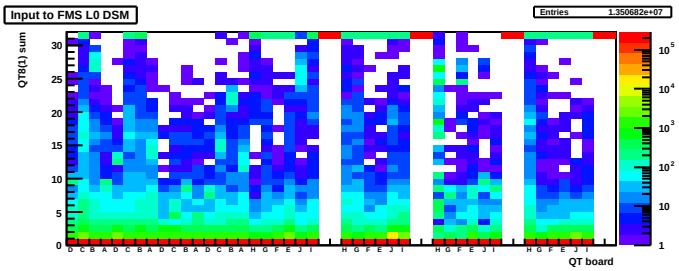

Input to QT3 crate (north-top)
Entries2374760
ADC
channel

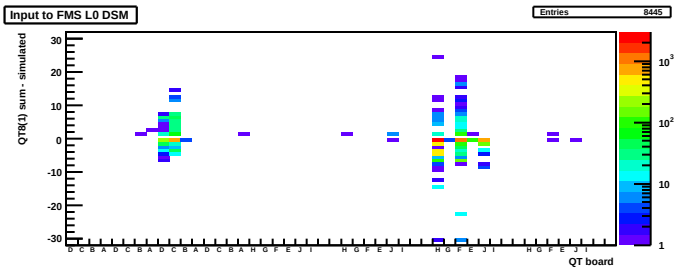

Input to QT2 crate (south-bottom)
Entries2729786
ADC
channel

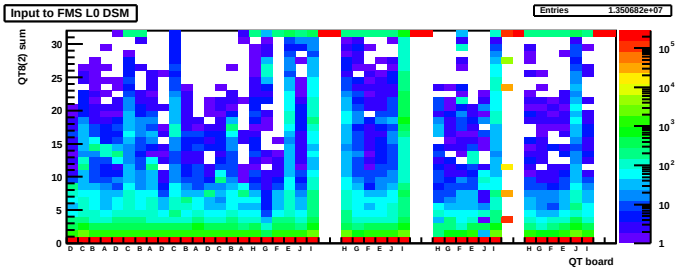

Input to QT4 crate (north-bottom)
Entries2829783
ADC
channel

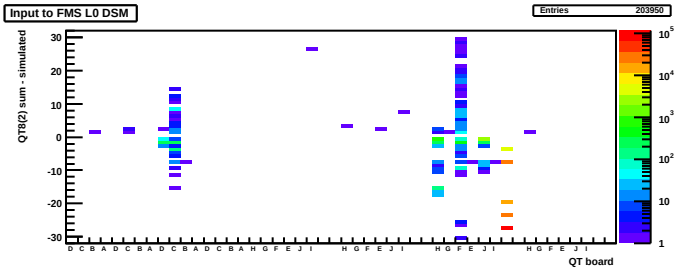

Input to FMS L0 DSM
Entries 1.350682e+07
QT8(0) sum
QT board

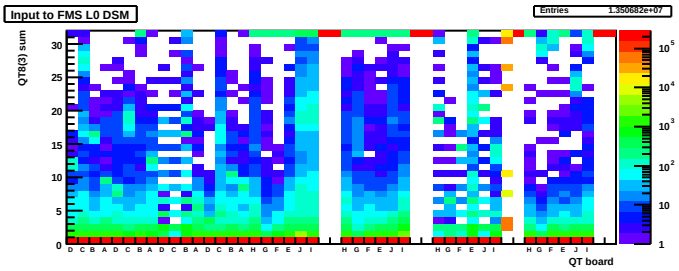

Input to FMS L0 DSM
Entries 5210
QT8(0) sum - simulated
QT board

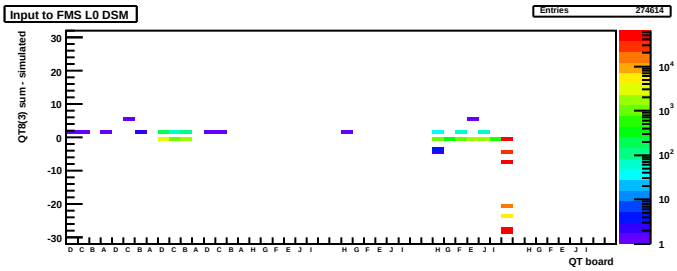

Input to FMS L0 DSM
Entries 1.350682e+07
QT8(1) sum
QT board

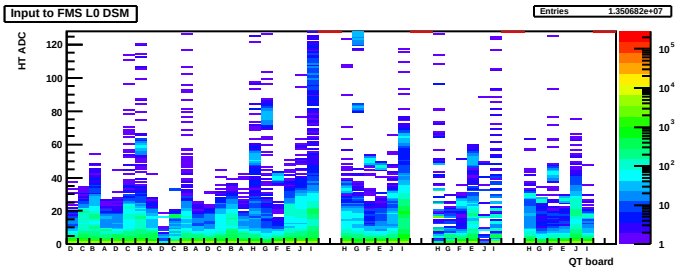

Input to FMS L0 DSM
Entries 8445
QT8(1) sum - simulated
QT board

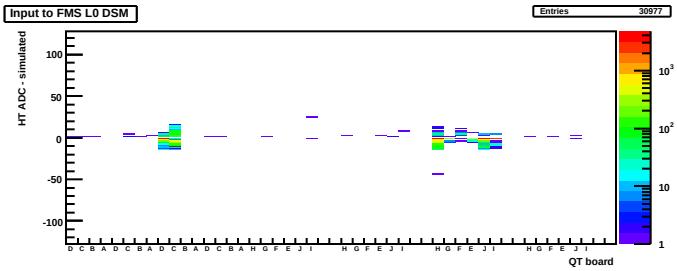

Input to FMS L0 DSM
Entries 1.350682e+07
QT8(2) sum
QT board

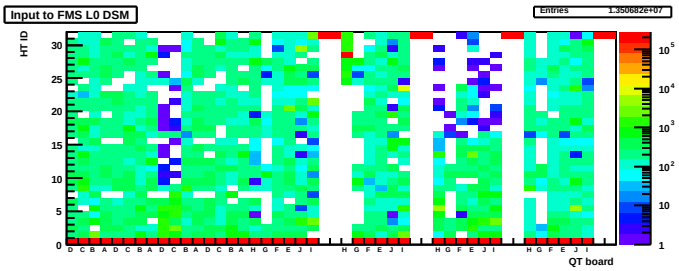

Input to FMS L0 DSM
Entries 203950
QT8(2) sum - simulated
QT board

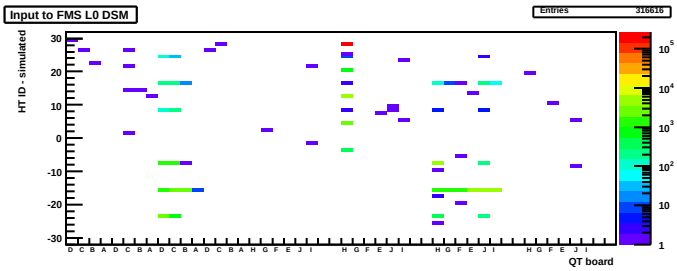

Input to FMS L0 DSM
Entries 1.350682e+07
QT8(3) sum
QT board

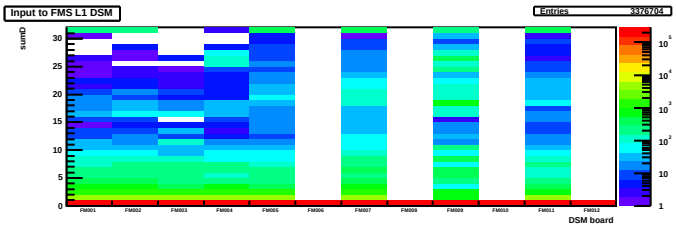

Input to FMS L0 DSM
Entries 274614
QT8(3) sum - simulated
QT board

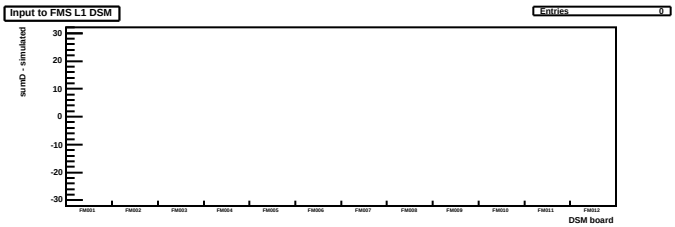

Input to FMS L0 DSM
Entries 1.350682e+07
HT ADC
QT board

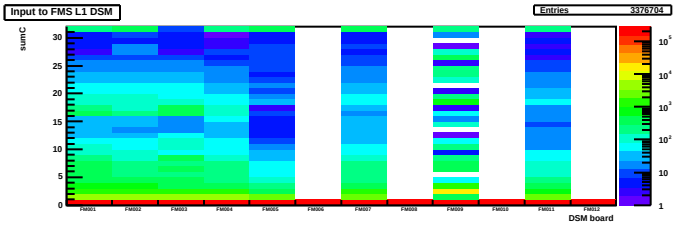

Input to FMS L0 DSM
Entries 30977
HT ADC - simulated
QT board

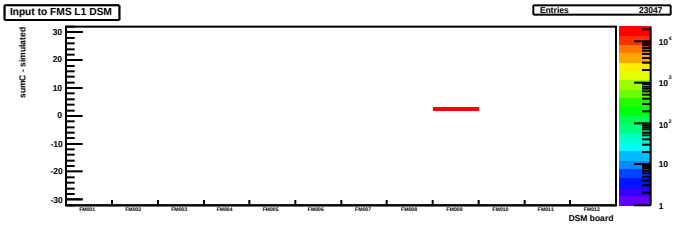

Input to FMS L0 DSM
Entries 1.350682e+07
HT ID
QT board

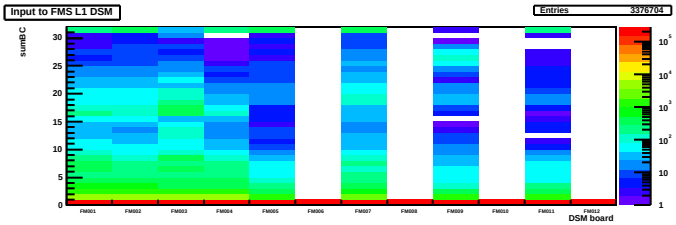

Input to FMS L0 DSM
Entries 316616
HT ID - simulated
QT board

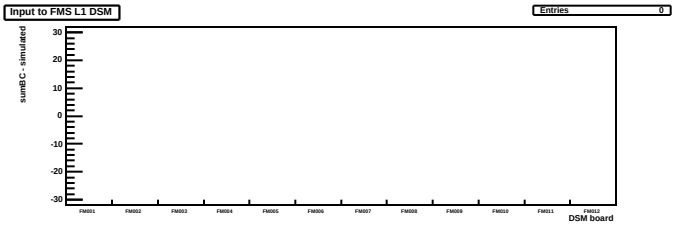

Input to FMS L1 DSM
Entries 3376704
sumD
DSM board

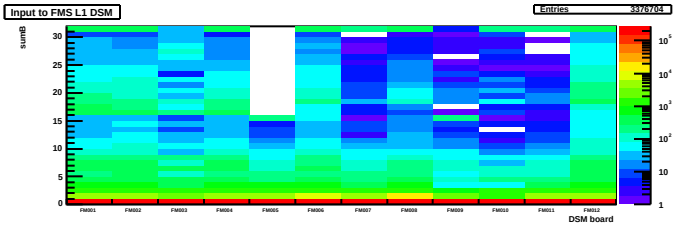

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

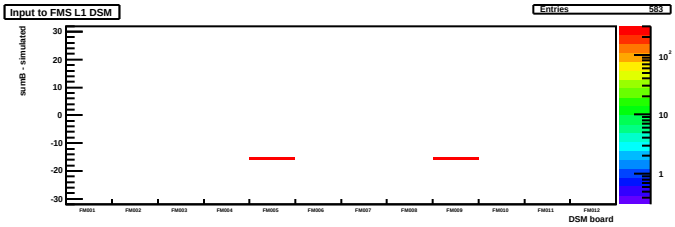

Input to FMS L1 DSM
Entries 3376704
sumC
DSM board

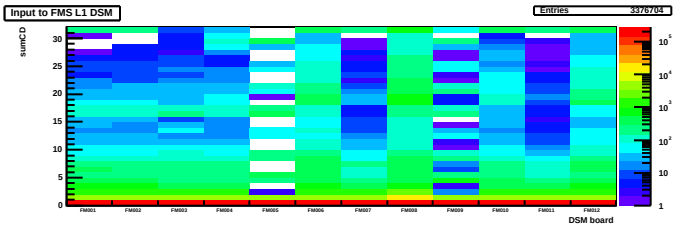

Input to FMS L1 DSM
Entries 23047
sumC - simulated
DSM board

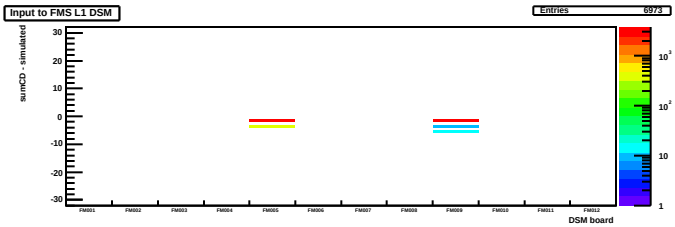

Input to FMS L1 DSM
Entries 3376704
sumBC
DSM board

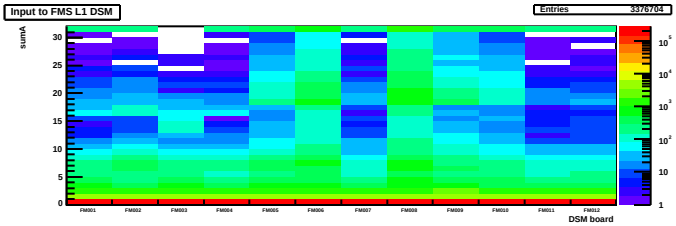

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

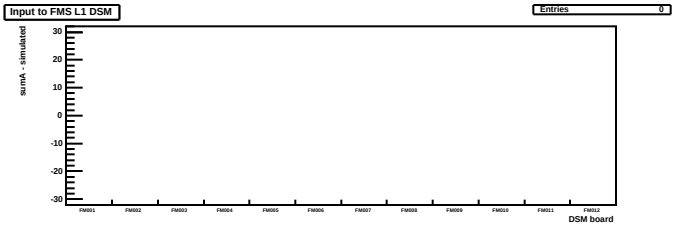

Input to FMS L1 DSM
Entries 3376704
sumB
DSM board

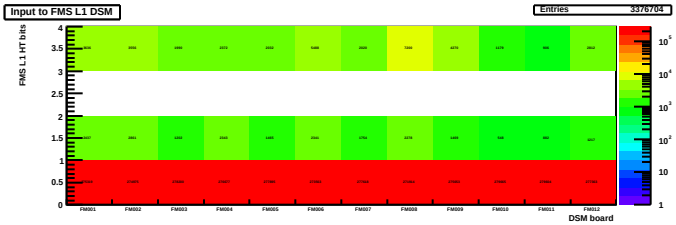

Input to FMS L1 DSM
Entries 583
sumB - simulated
DSM board

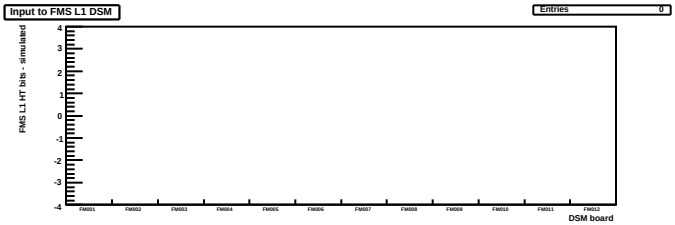

Input to FMS L1 DSM
Entries 3376704
sumCD
DSM board

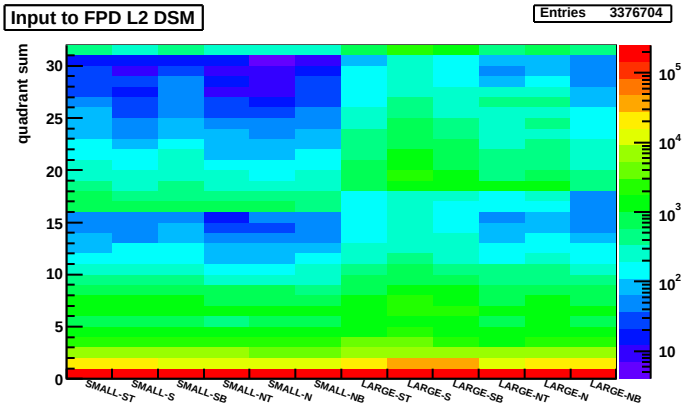

Input to FMS L1 DSM
Entries 6973
sumCD - simulated
DSM board

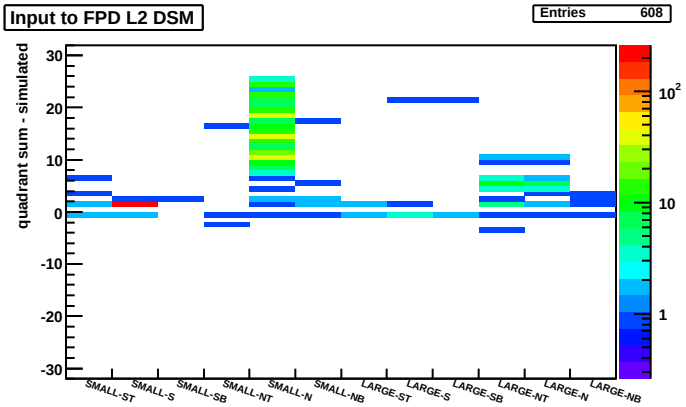

Input to FMS L1 DSM
Entries 3376704
sumA
DSM board

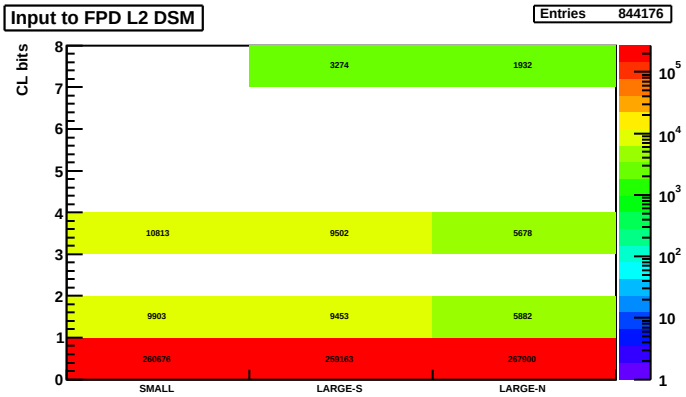

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

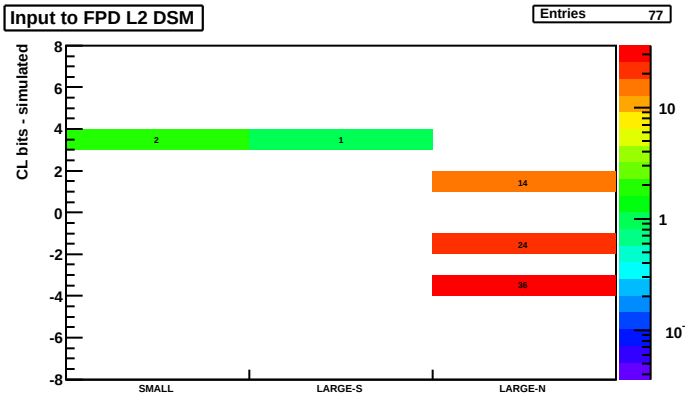

Input to FMS L1 DSM
Entries 3376704
FMS L1 HT bits
DSM board

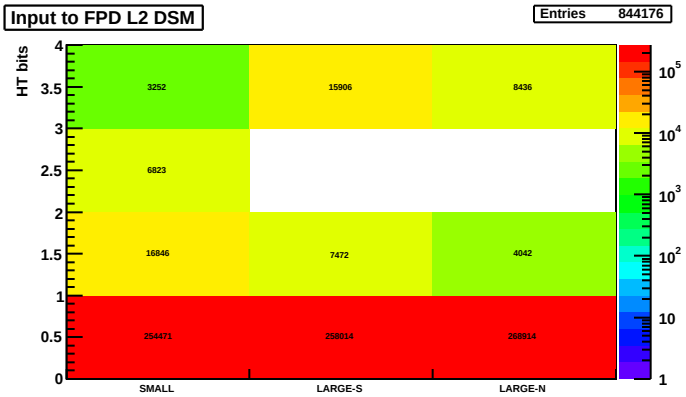

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

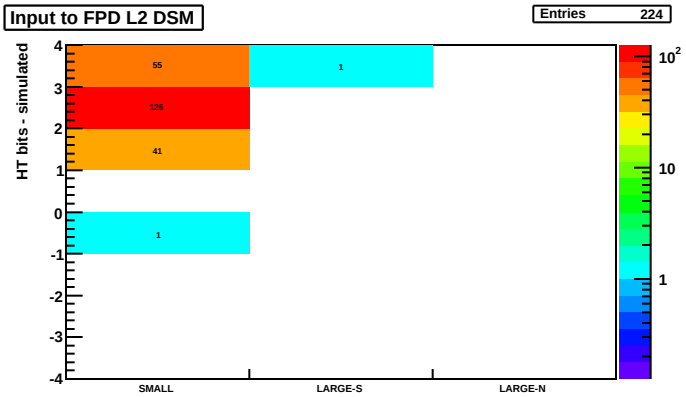

Input to FPD L2 DSM
Entries 3376704
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

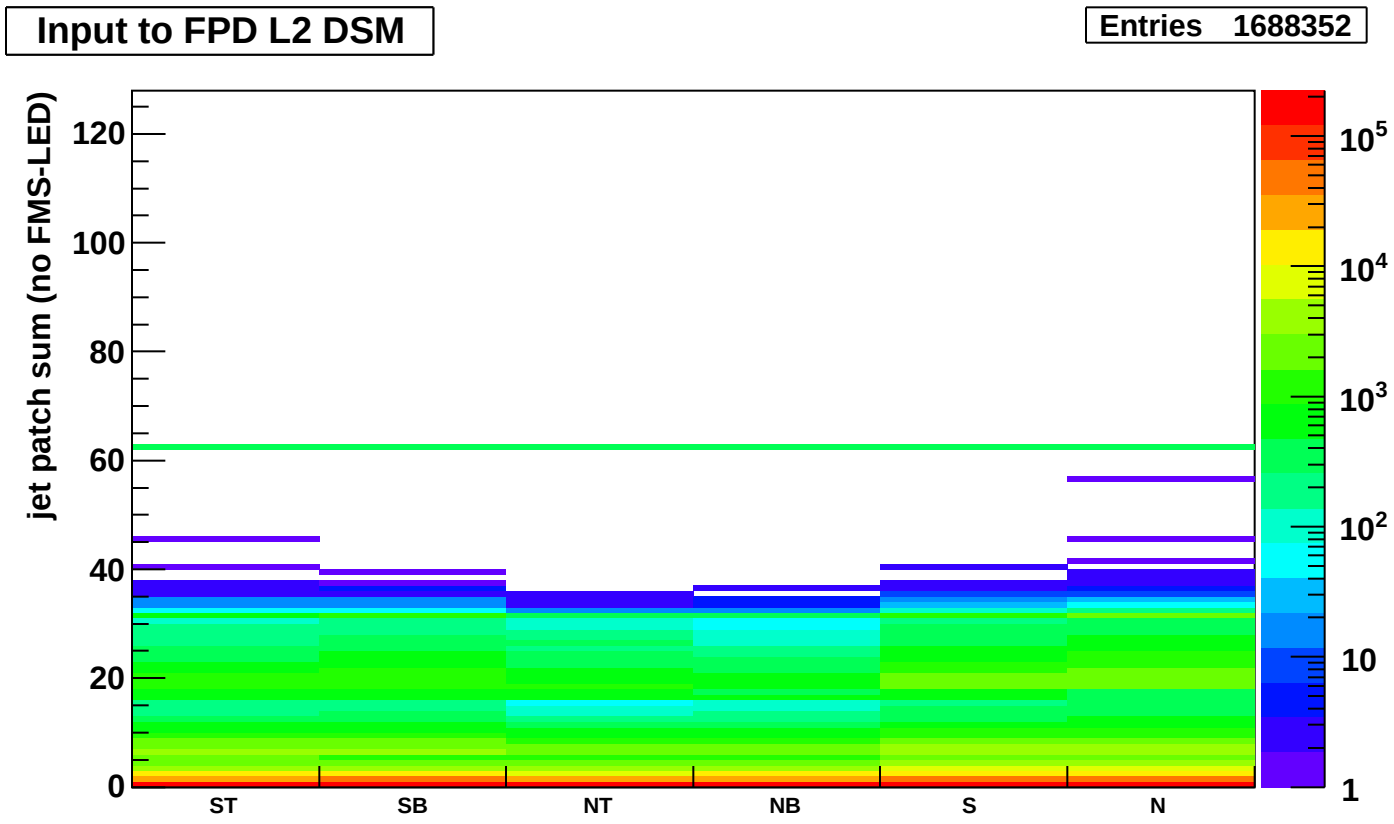

Input to FPD L2 DSM
Entries 608
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

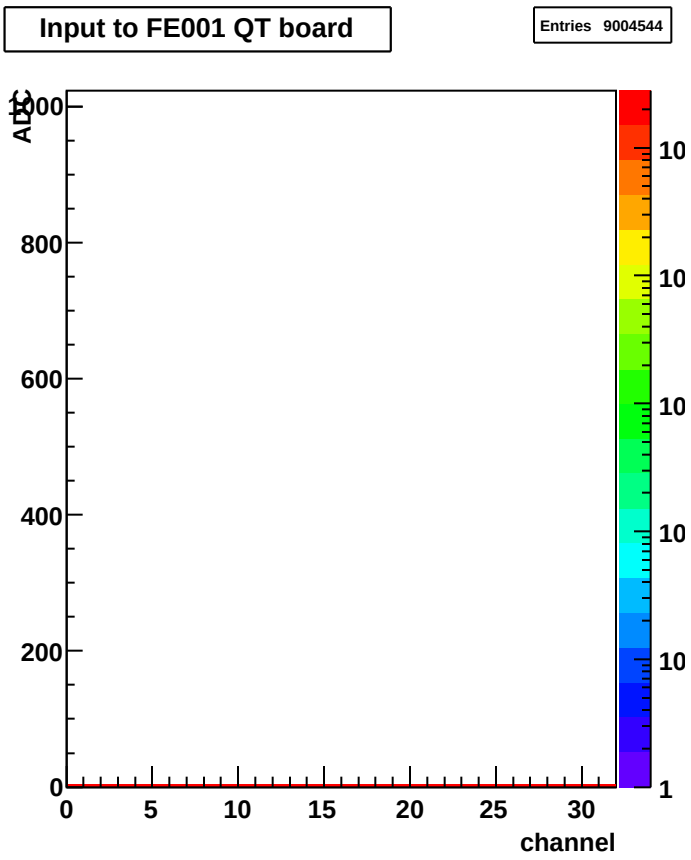

Input to FPD L2 DSM
Entries 844176
CL bits
3274
1932
10813
9502
5678
9903
9453
5882
260676
259163
267900
SMALL
LARGE-S
LARGE-N

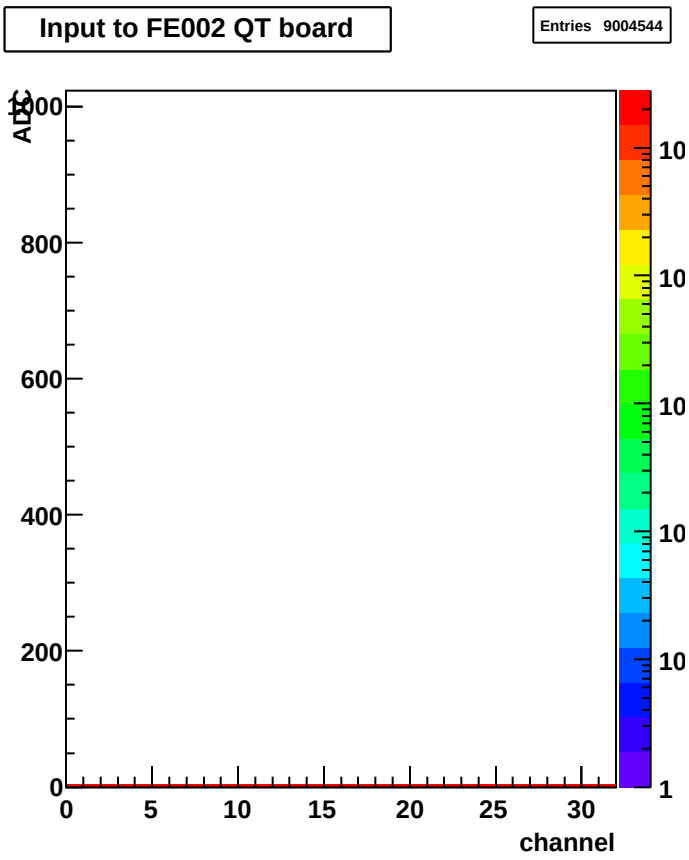

Input to FPD L2 DSM
Entries 77
CL bits - simulated
2
1
14
24
36
SMALL
LARGE-S
LARGE-N

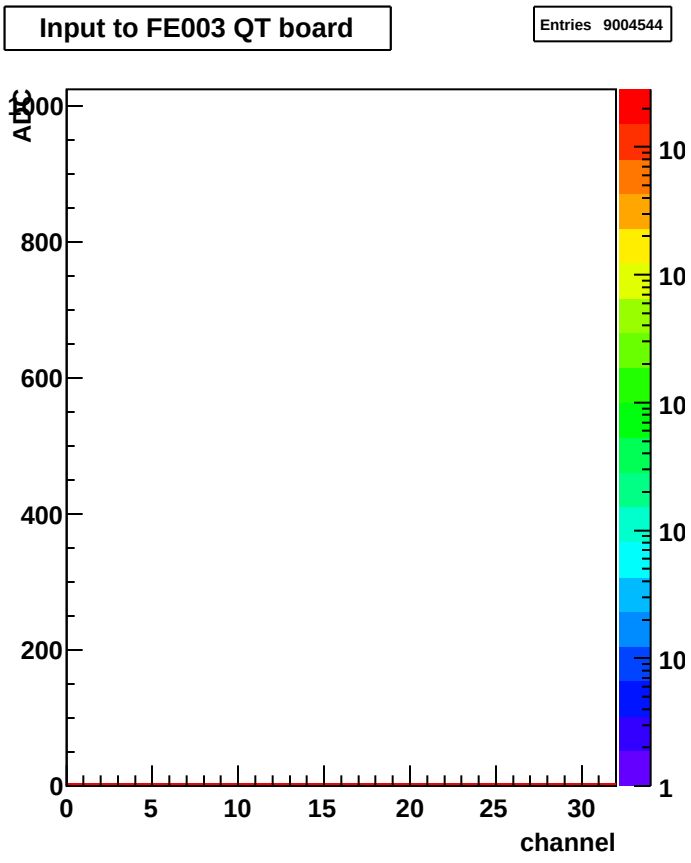

Input to FPD L2 DSM
Entries 844176
HT bits
3252
15906
8436
6823
16846
7472
4042
254471
258014
268914
SMALL
LARGE-S
LARGE-N

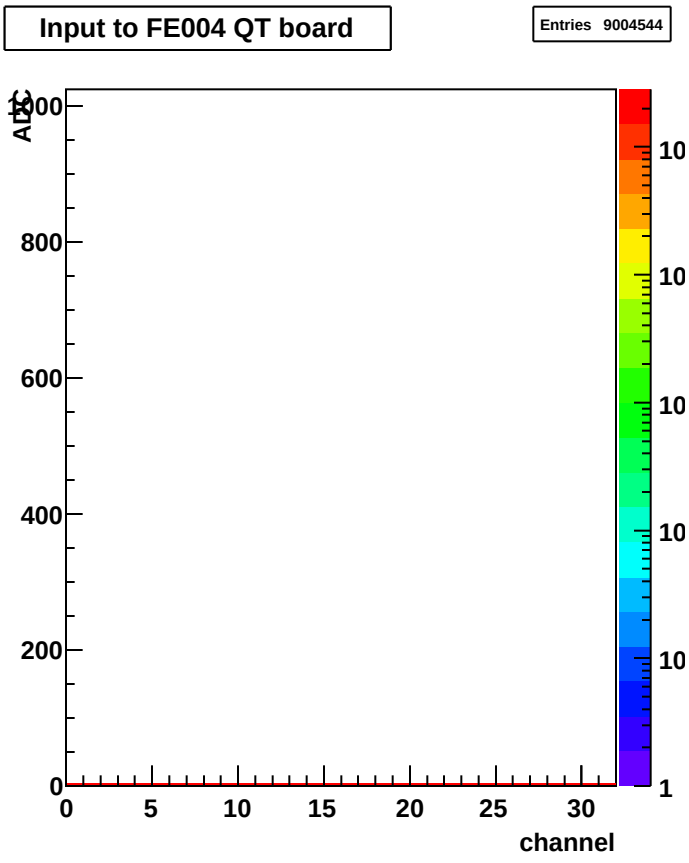

Input to FPD L2 DSM
Entries 224
HT bits - simulated
55
1
126
41
1
SMALL
LARGE-S
LARGE-N

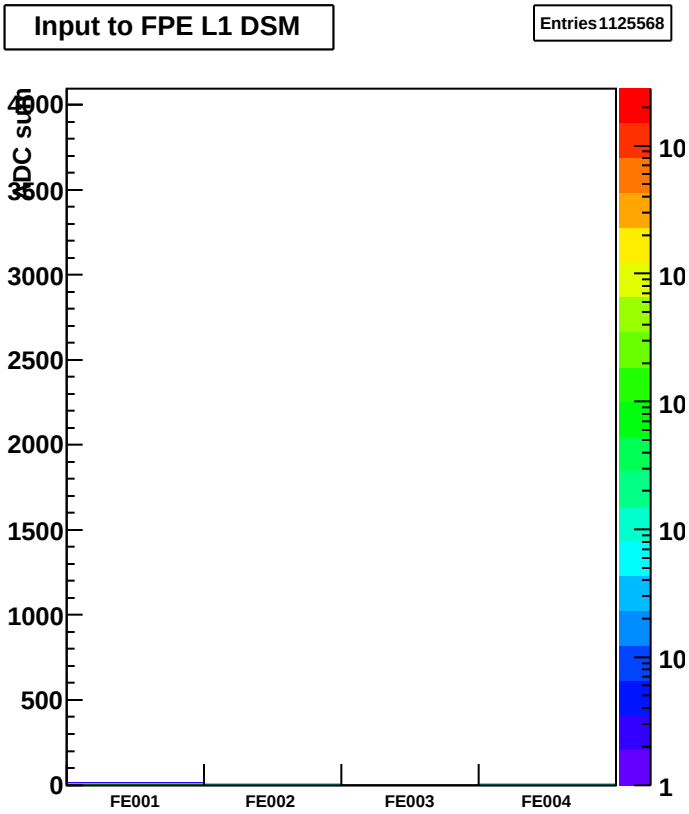

Input to FPD L2 DSM
Entries 1688352
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

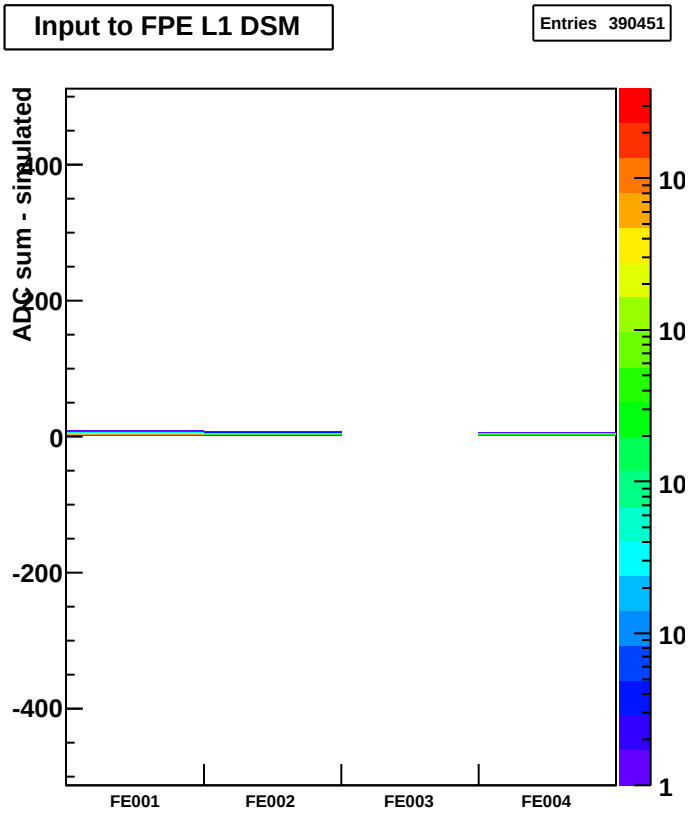

Input to FE001 QT board
Entries 9004544
ADC
channel

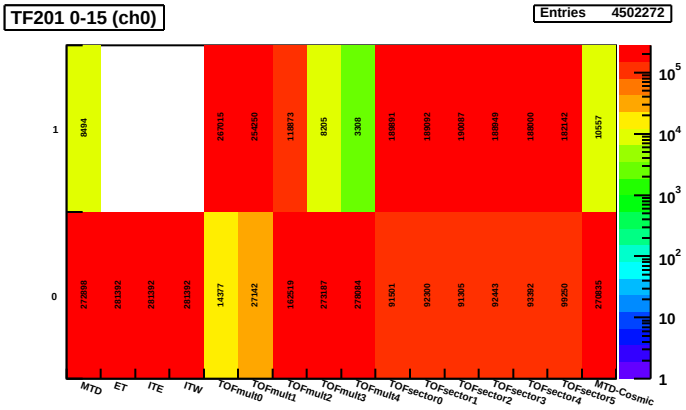

Input to FE002 QT board
Entries 9004544
ADC
channel

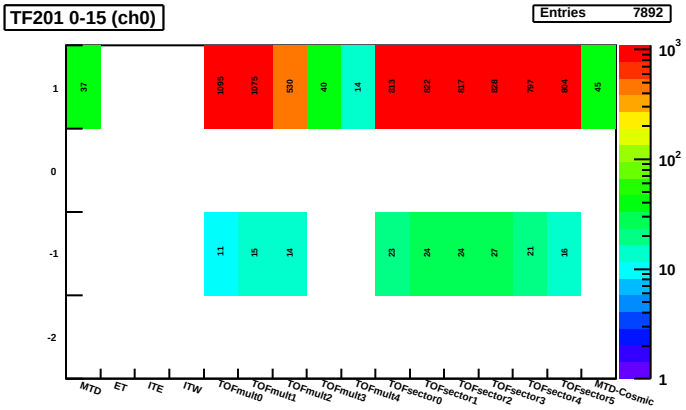

Input to FE003 QT board
Entries 9004544
ADC
channel

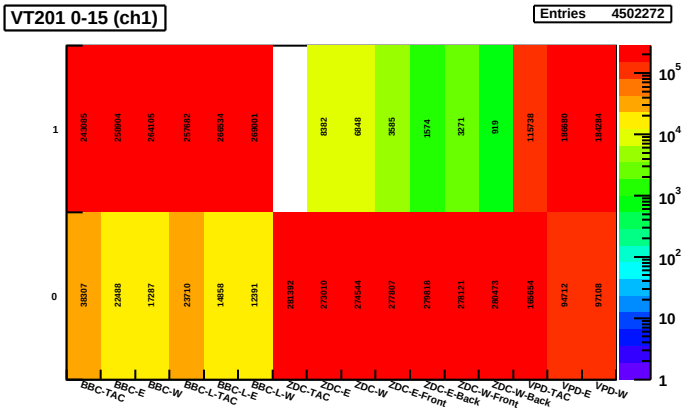

Input to FE004 QT board
Entries 9004544
ADC
channel

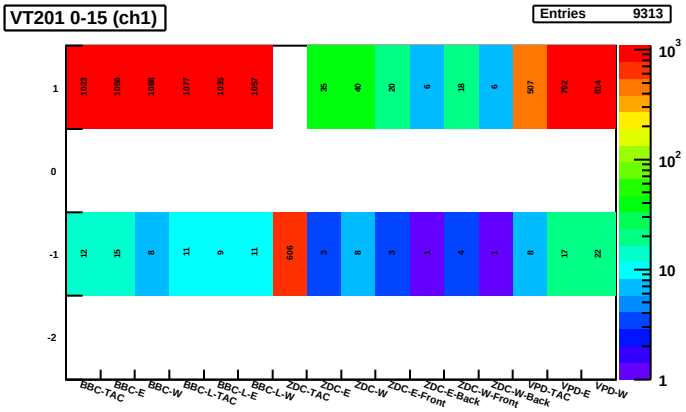

Input to FPE L1 DSM
Entries 1125568
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries 390451
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1


TF201 0-15 (ch0)
Entries 4502272
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 7892
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 4502272
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 9313
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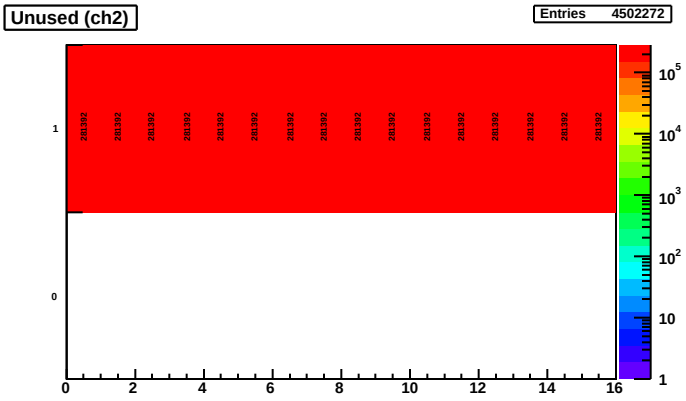
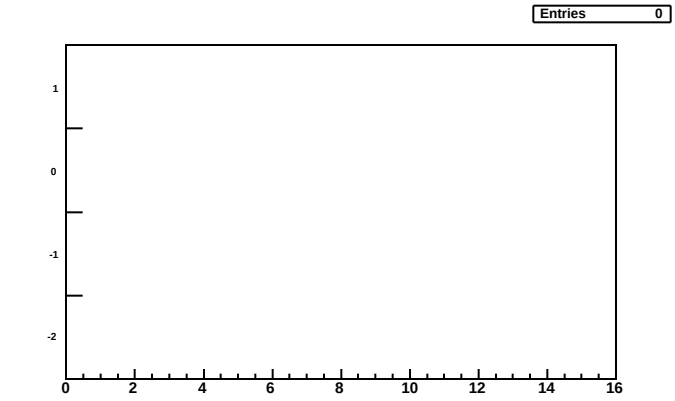

Unused (ch2)
Entries 4502272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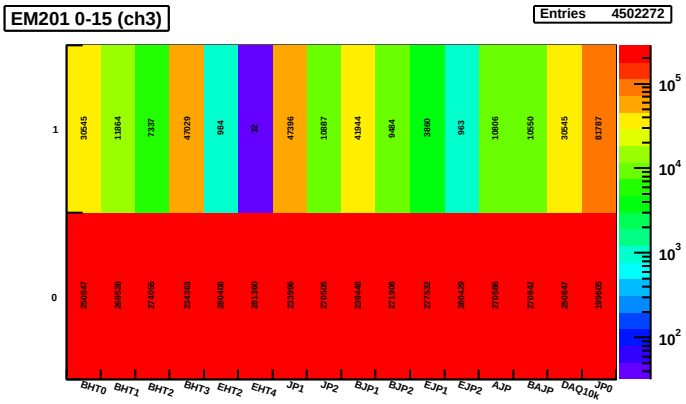
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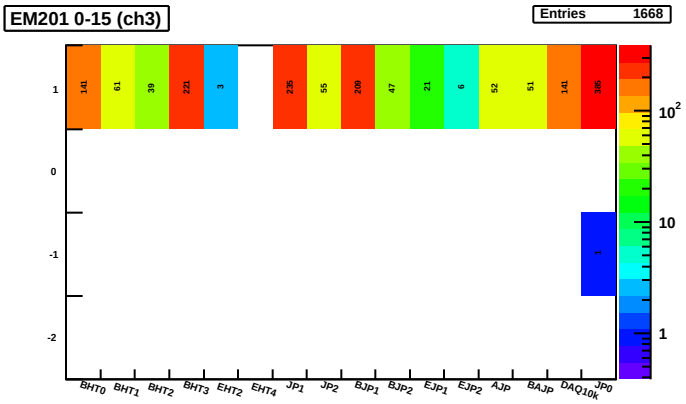
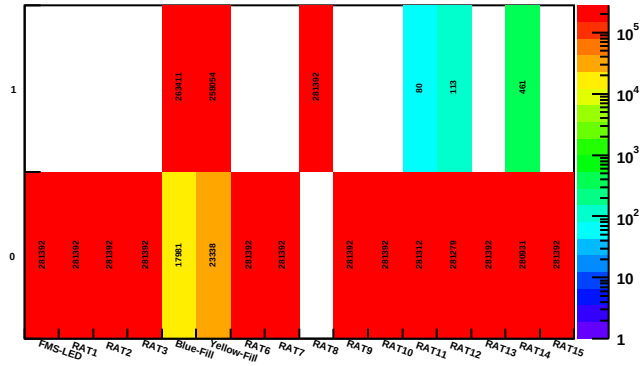
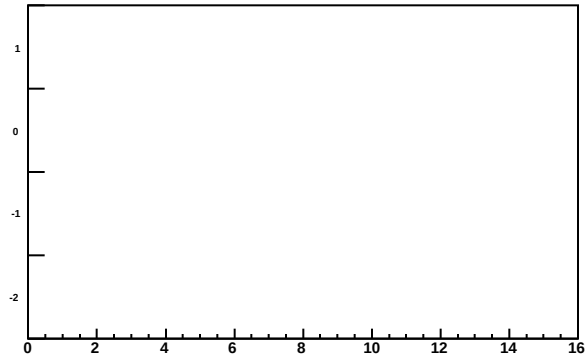
Entries 4502272
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

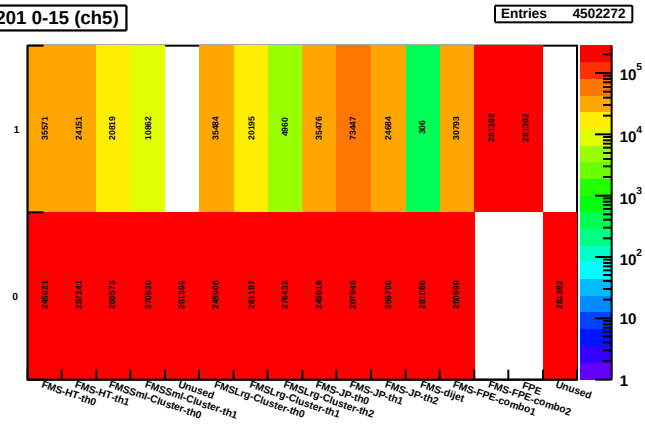

EM201 0-15 (ch3)
Entries 1668
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)





FP201 0-15 (ch5)



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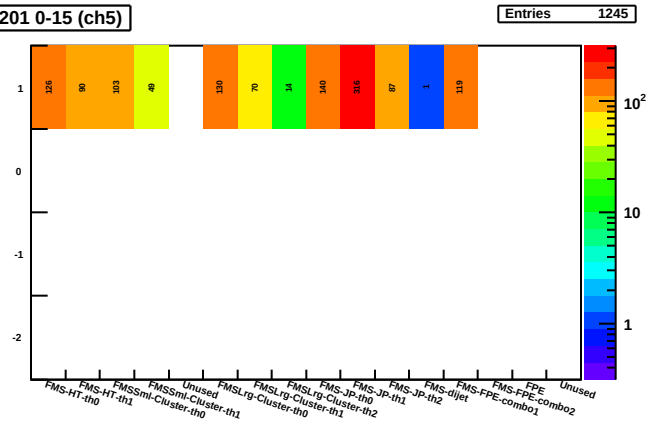
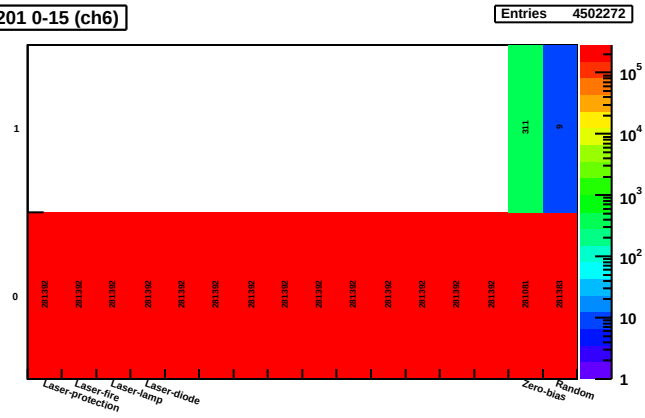
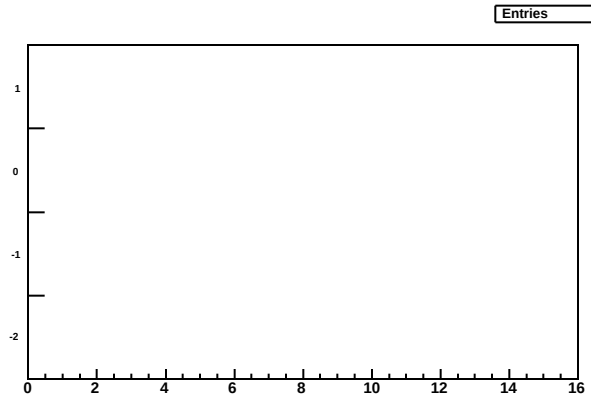
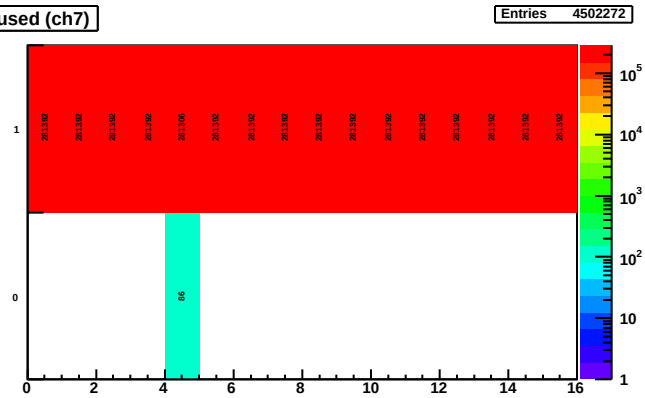
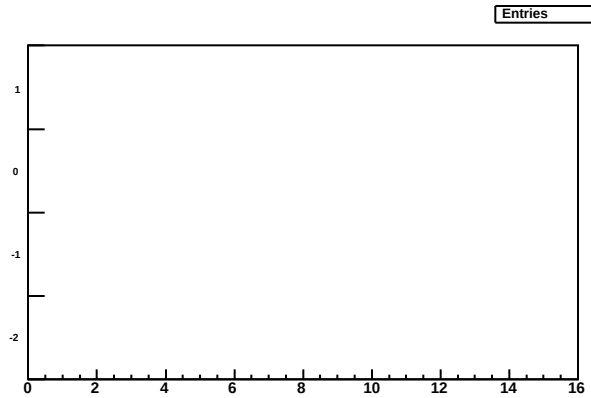


ST201 0-15 (ch6)





Unused (ch7)