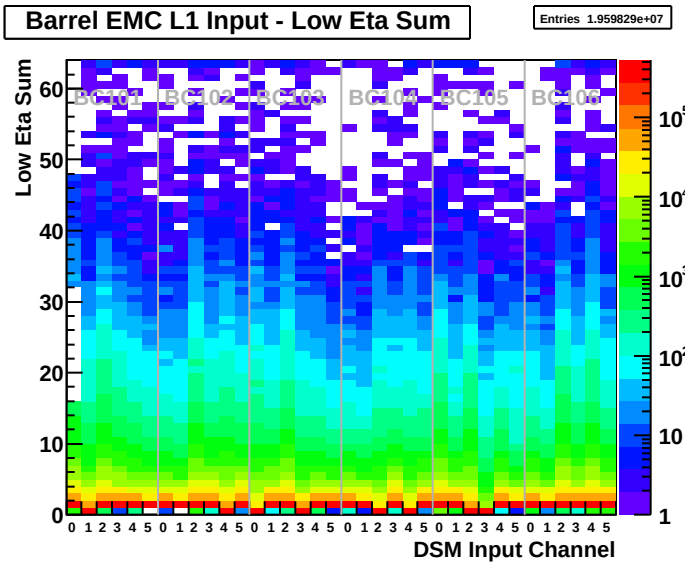
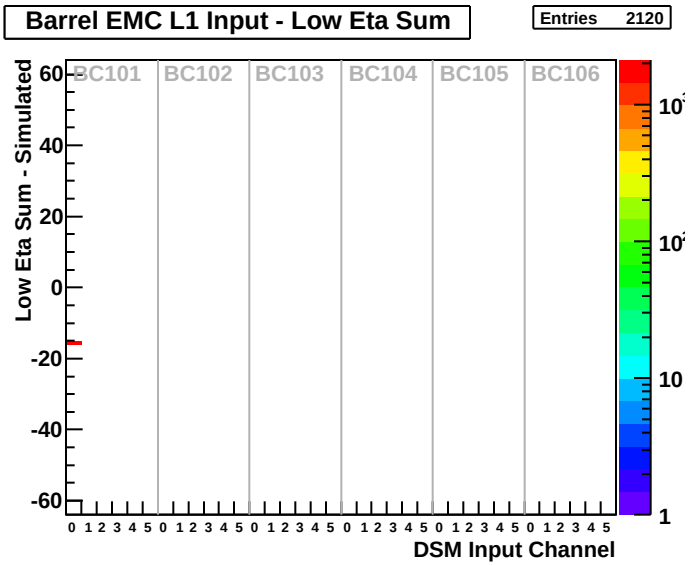
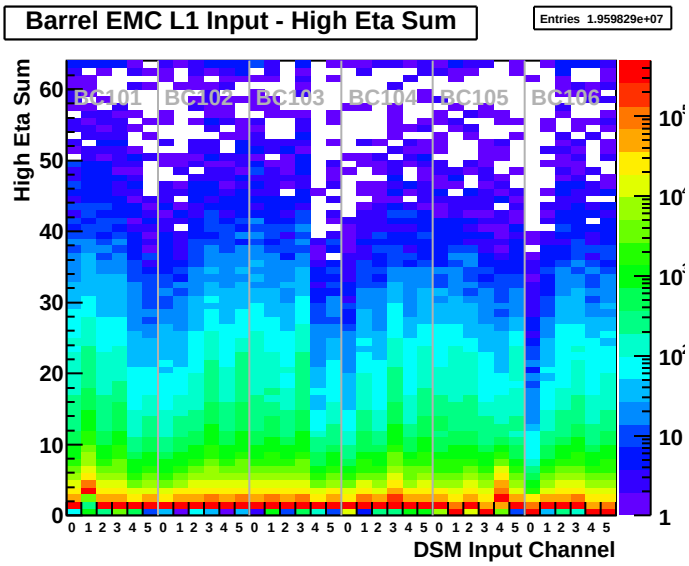
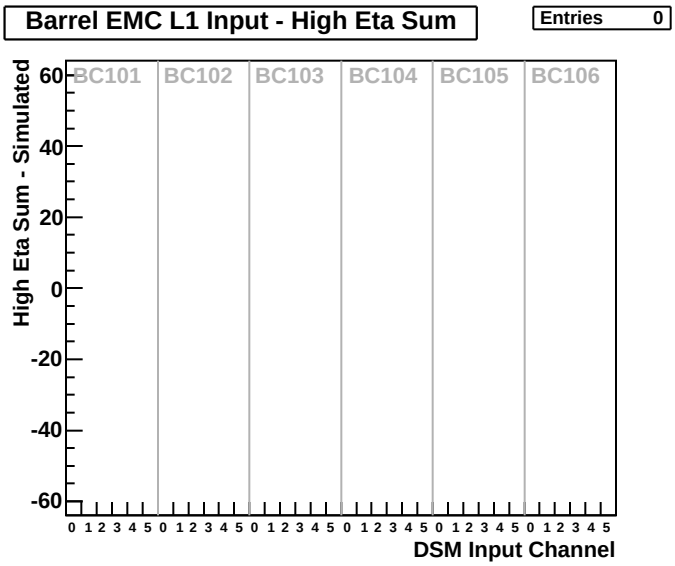
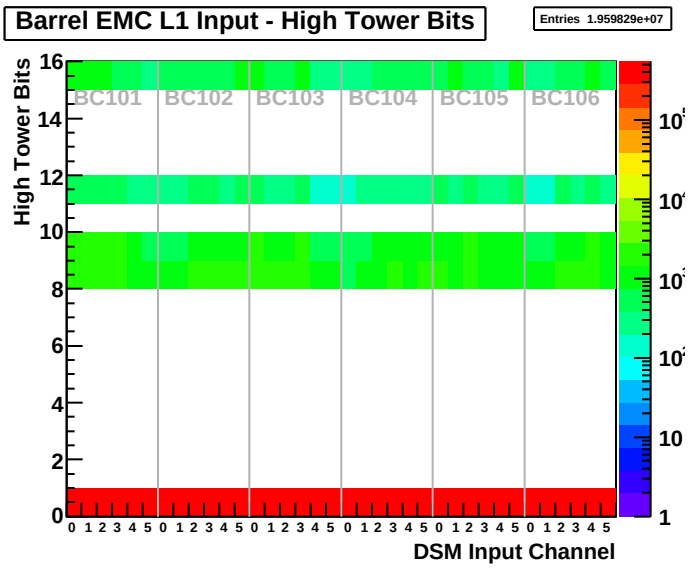
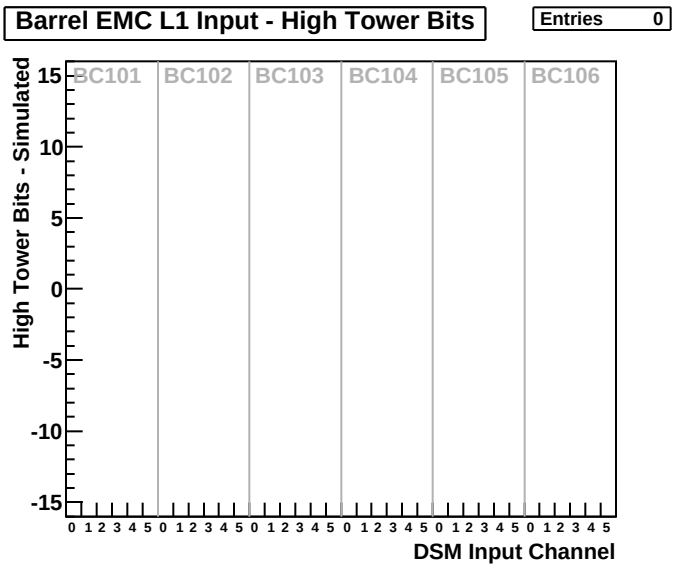

Barrel EMC L1 Input - Low Eta Sum
Entries 1.959829e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

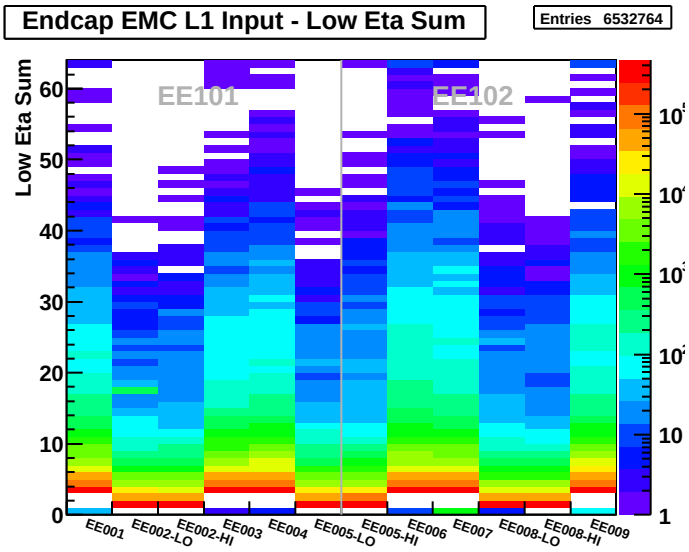

Barrel EMC L1 Input - Low Eta Sum
Entries 2120
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

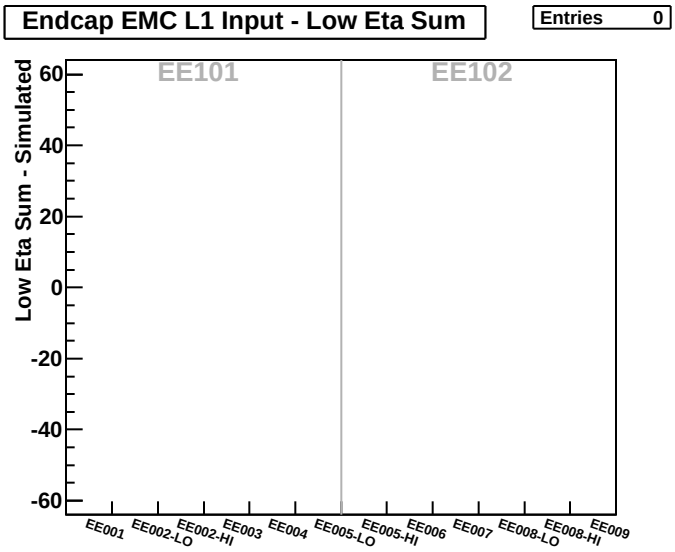

Barrel EMC L1 Input - High Eta Sum
Entries 1.959829e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

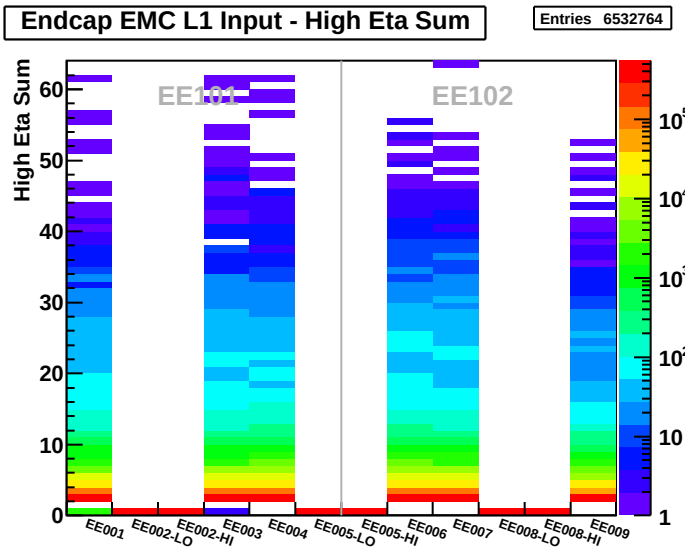

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

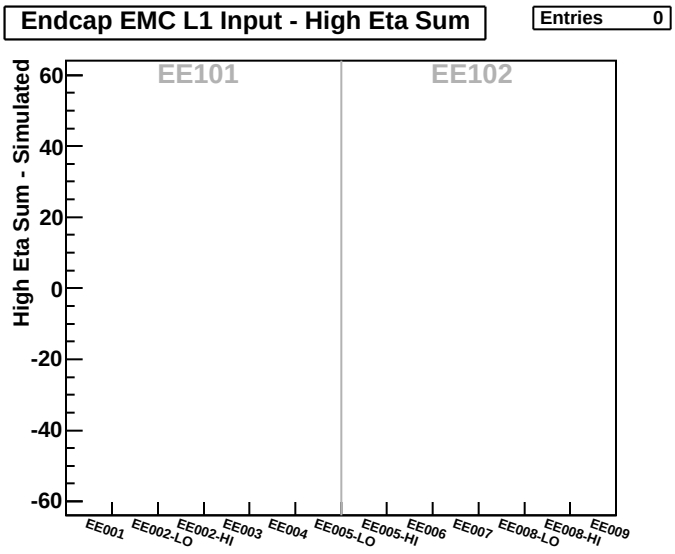

Barrel EMC L1 Input - High Tower Bits
Entries 1.959829e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

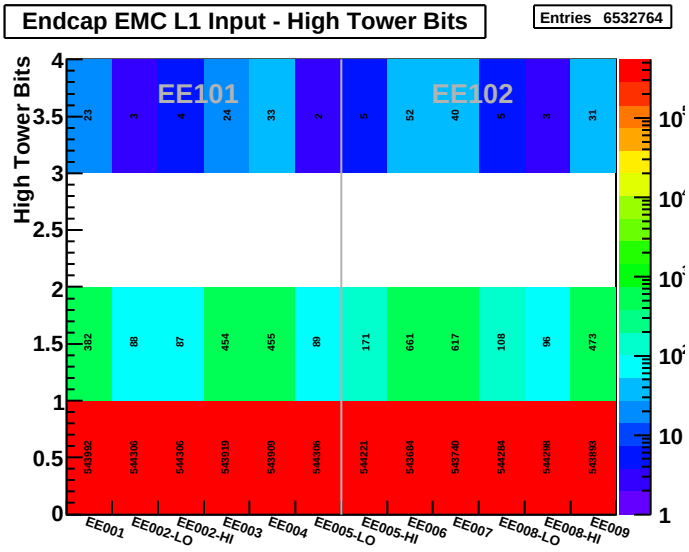

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

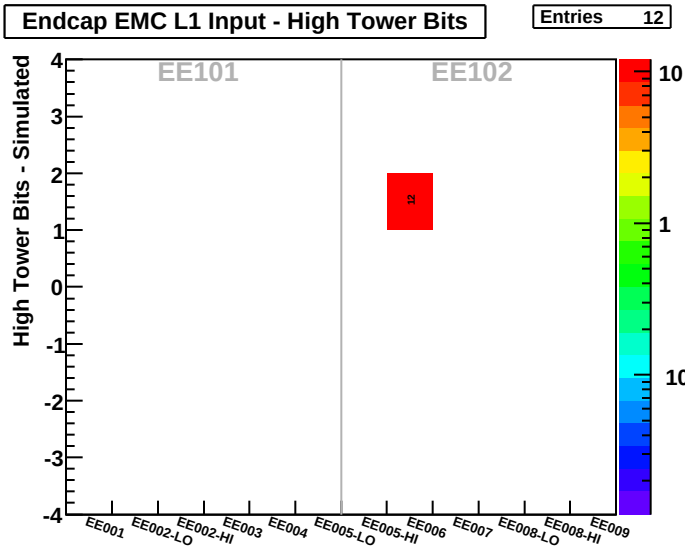

Endcap EMC L1 Input - Low Eta Sum
Entries 6532764
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

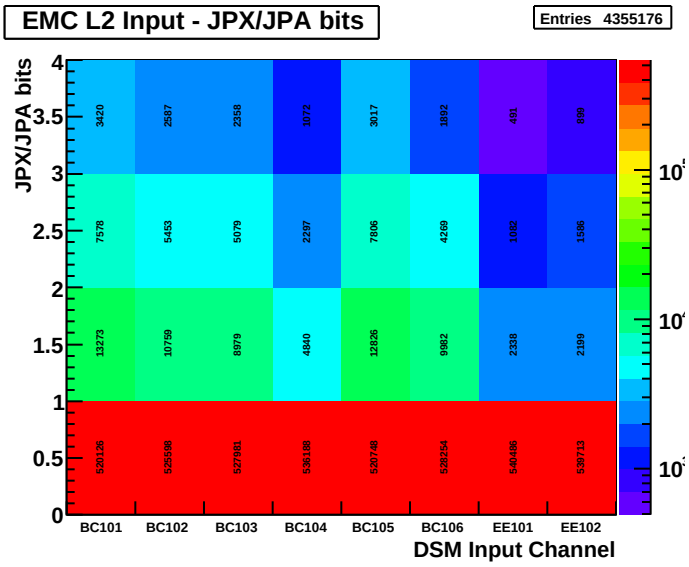

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

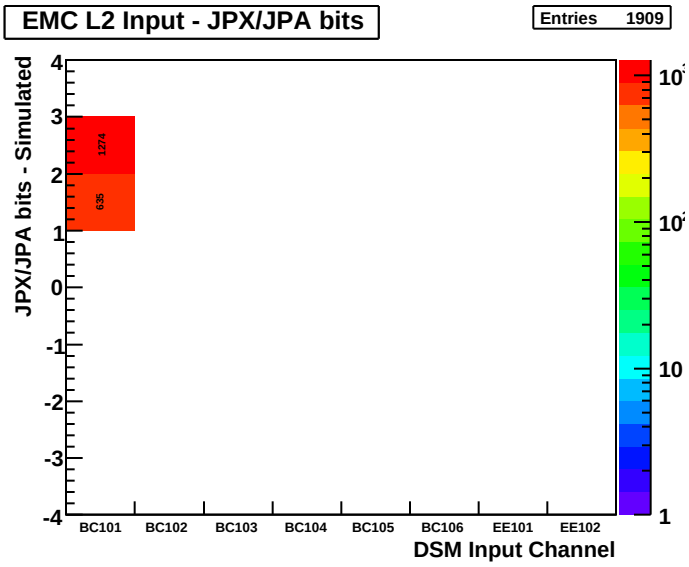

Endcap EMC L1 Input - High Eta Sum
Entries 6532764
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

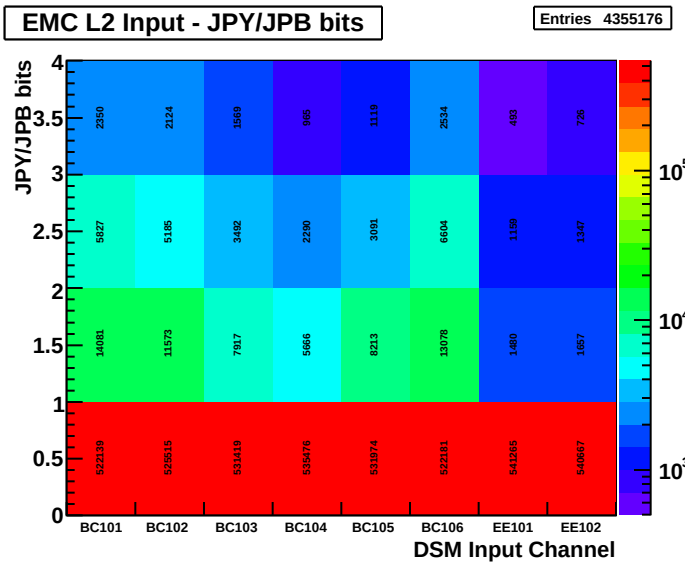

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

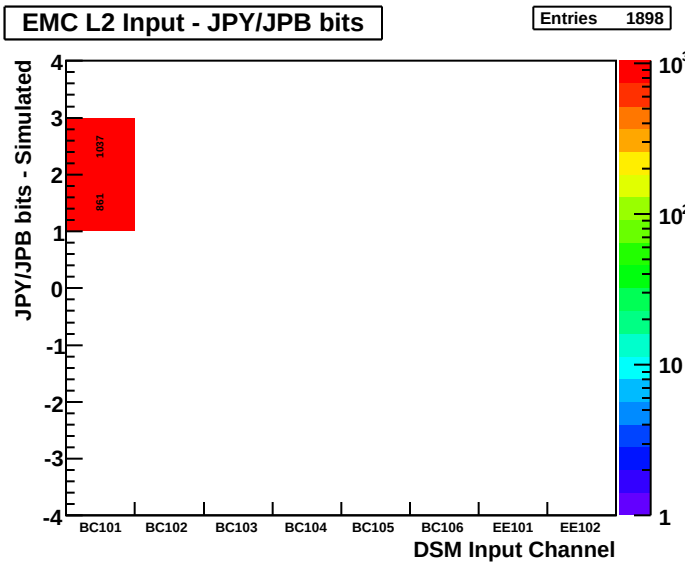

Endcap EMC L1 Input - High Tower Bits
Entries 6532764
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

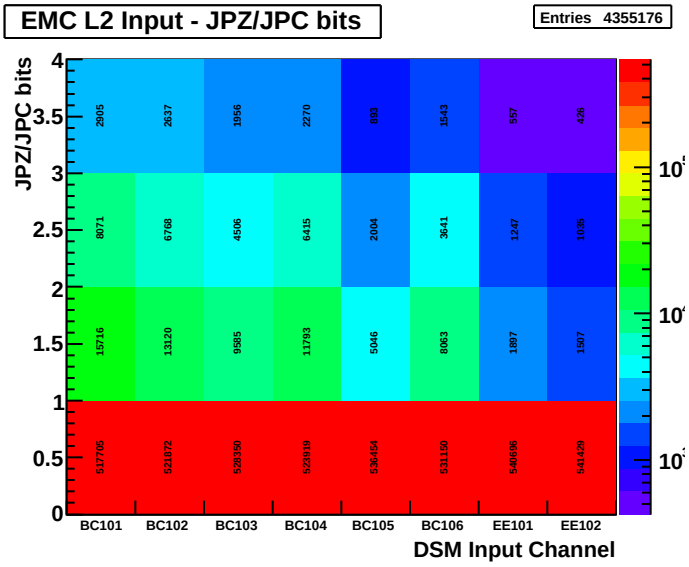

Endcap EMC L1 Input - High Tower Bits
Entries 12
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

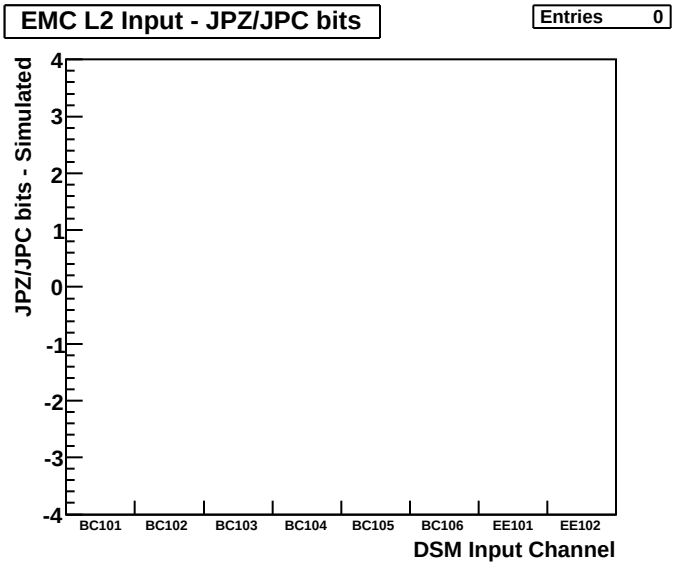

EMC L2 Input - JPX/JPA bits
Entries 4355176
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3420 2587 2358 1072 3017 1892 491 899
7578 5453 5079 2297 7806 4269 1082 1586
13273 10759 8979 4840 12826 9982 2338 2199
520126 525598 527981 538188 520748 528254 540486 539713

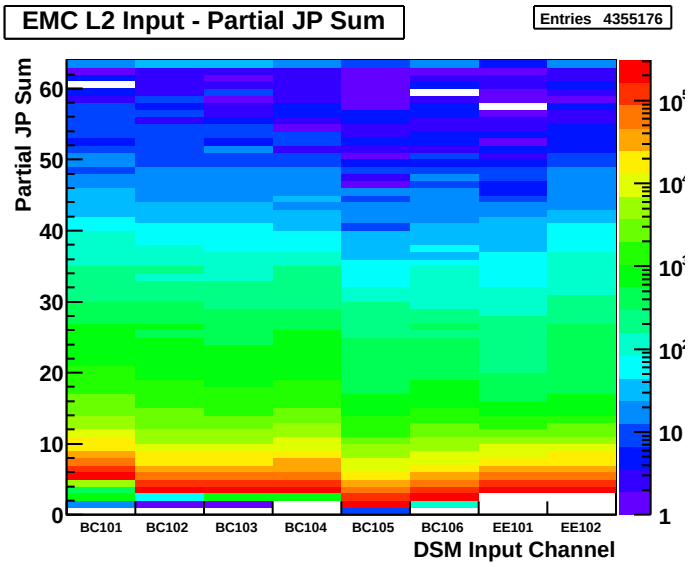

EMC L2 Input - JPX/JPA bits
Entries 1909
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1274
635

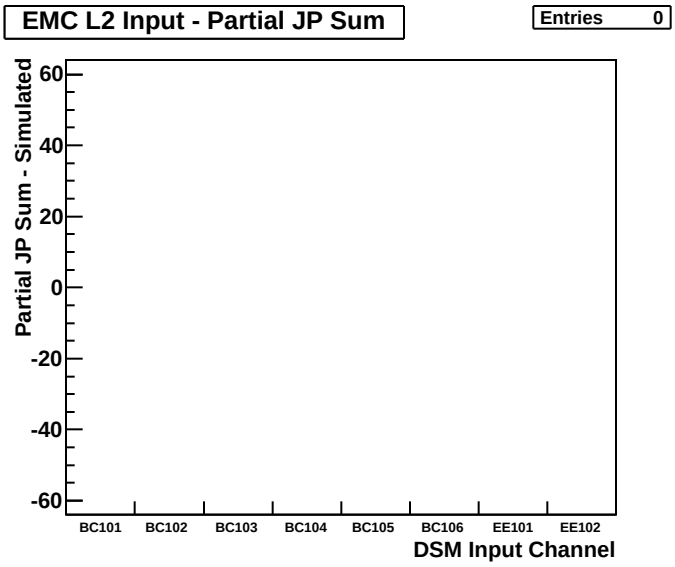

EMC L2 Input - JPY/JPB bits
Entries 4355176
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2350 2124 1569 966 1119 2534 493 726
5827 5185 3492 2290 3091 6604 1159 1347
14081 11573 7917 5666 8213 13078 1480 1657
522139 525515 531419 535476 531974 522181 541265 540667

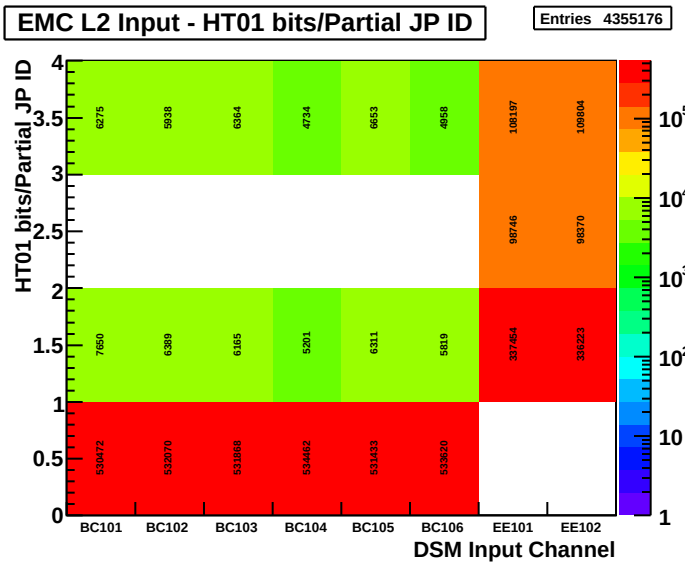

EMC L2 Input - JPY/JPB bits
Entries 1898
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1037
861

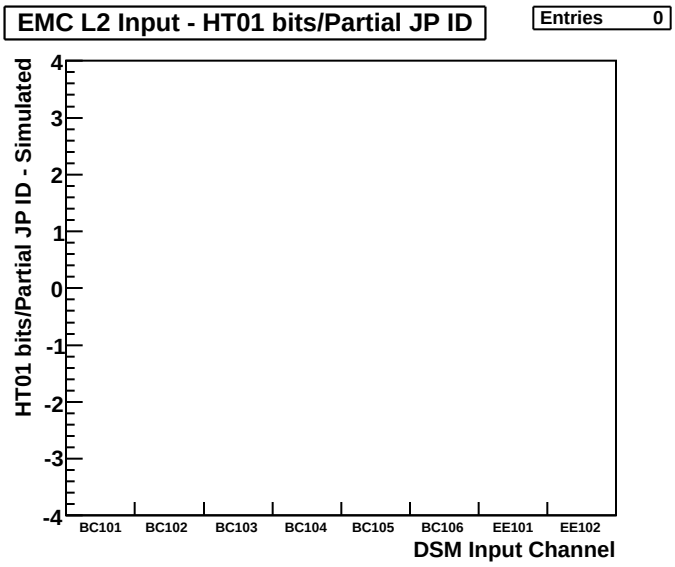

EMC L2 Input - JPZ/JPC bits
Entries 4355176
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2905 2637 1956 2270 893 1543 557 426
8071 6768 4506 6415 2004 3641 1247 1035
15716 13120 9985 11793 5046 8063 1897 1507
517705 521872 528350 523919 536454 531150 540586 541429

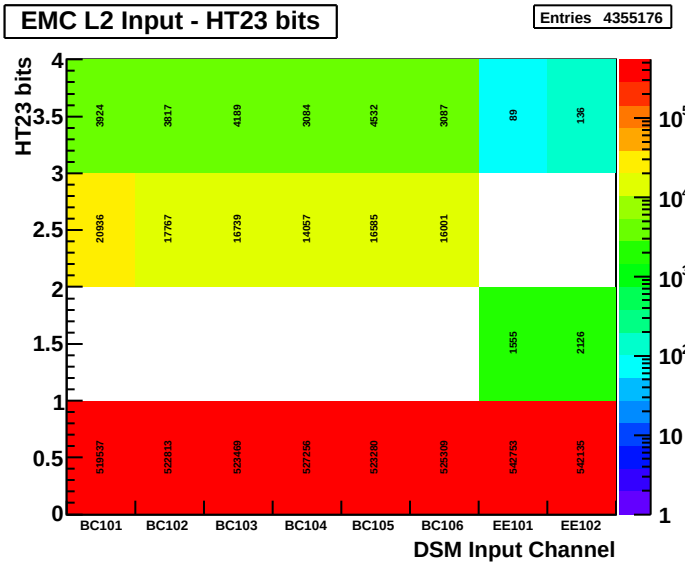

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

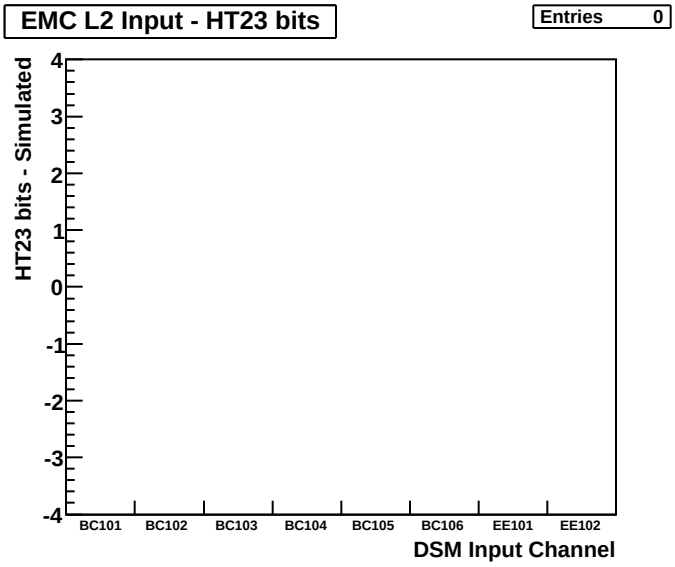

EMC L2 Input - Partial JP Sum
Entries 4355176
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

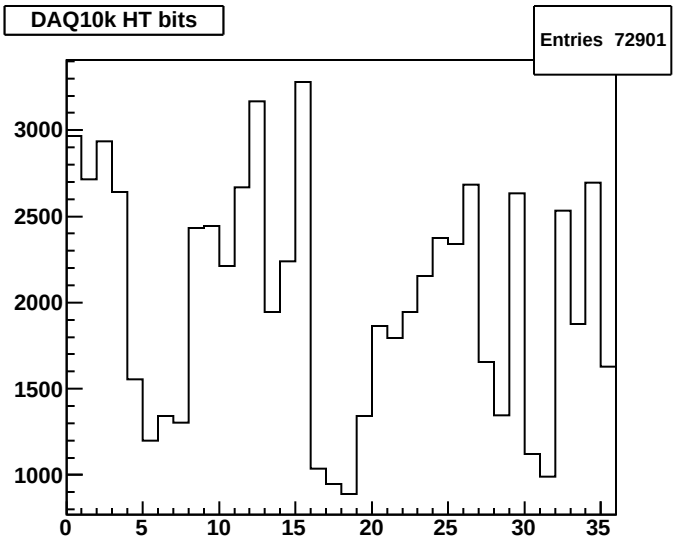

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

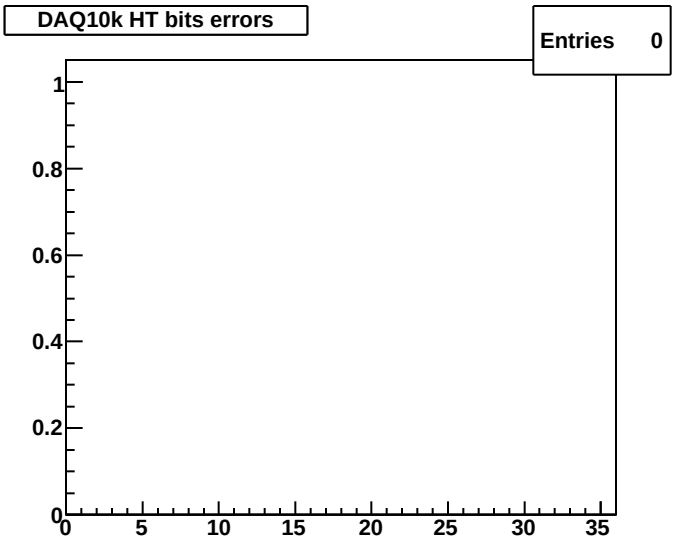

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4355176
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

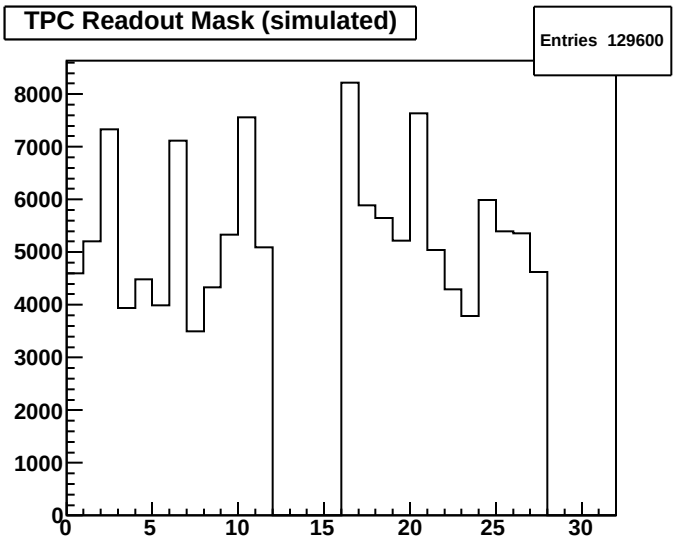

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

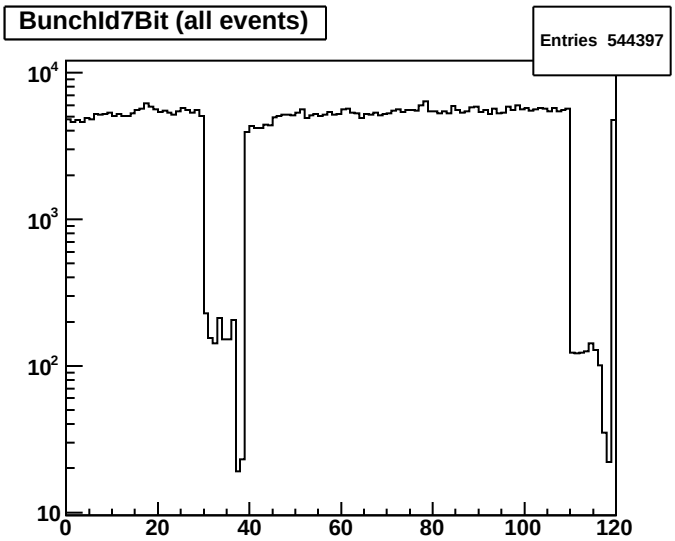

EMC L2 Input - HT23 bits
Entries 4355176
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

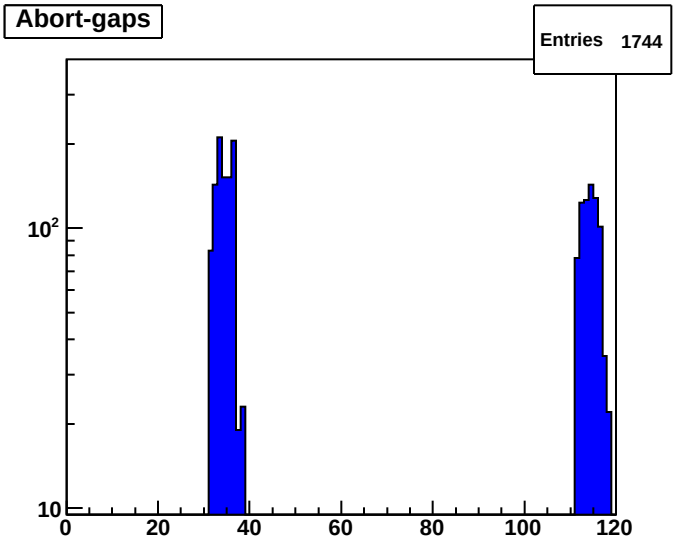

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

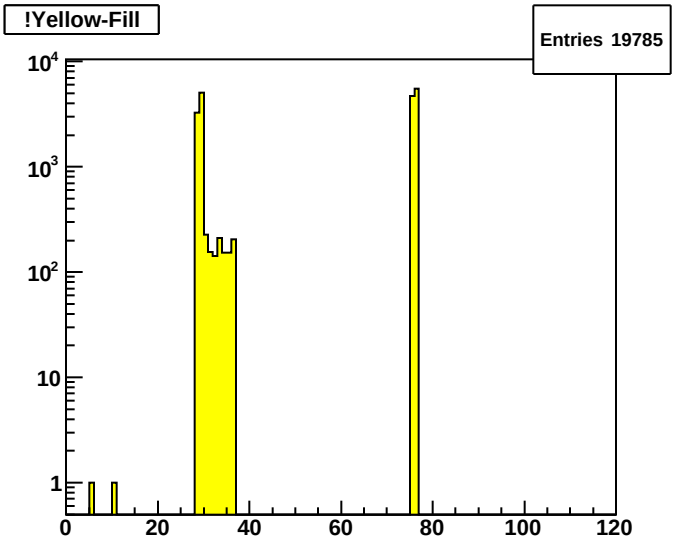

DAQ10k HT bits
Entries 72901

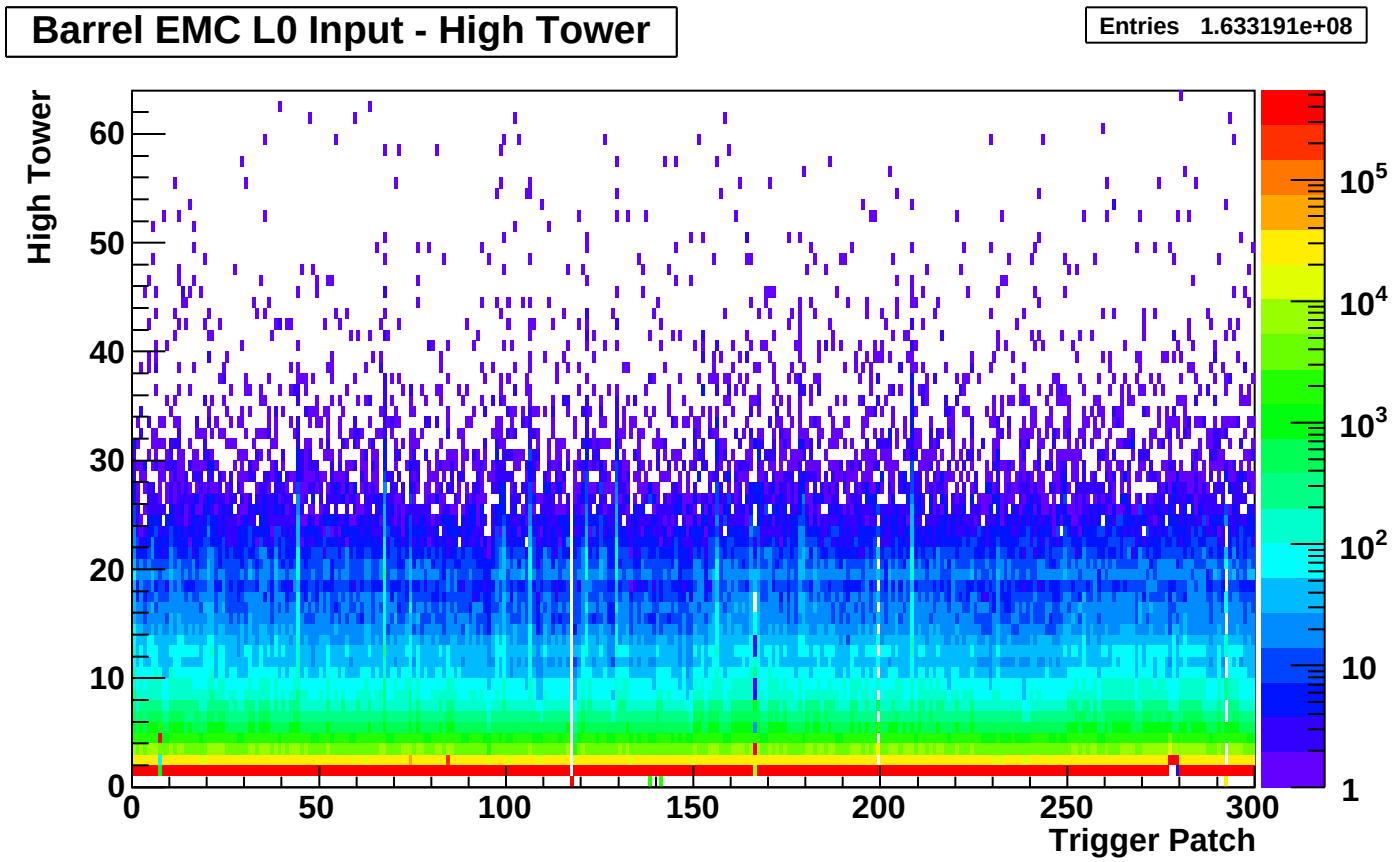

DAQ10k HT bits errors
Entries 0

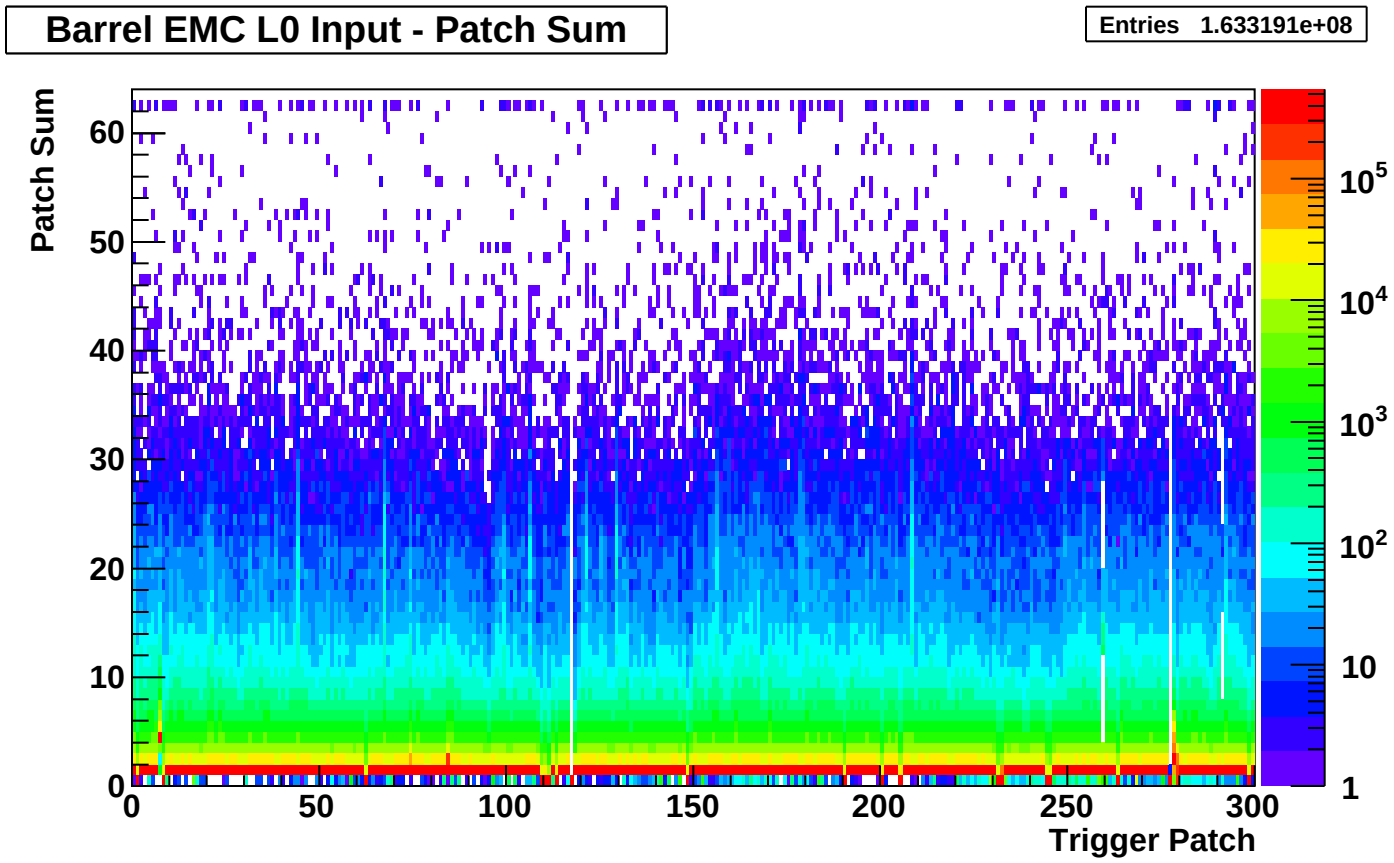

TPC Readout Mask (simulated)
Entries 129600

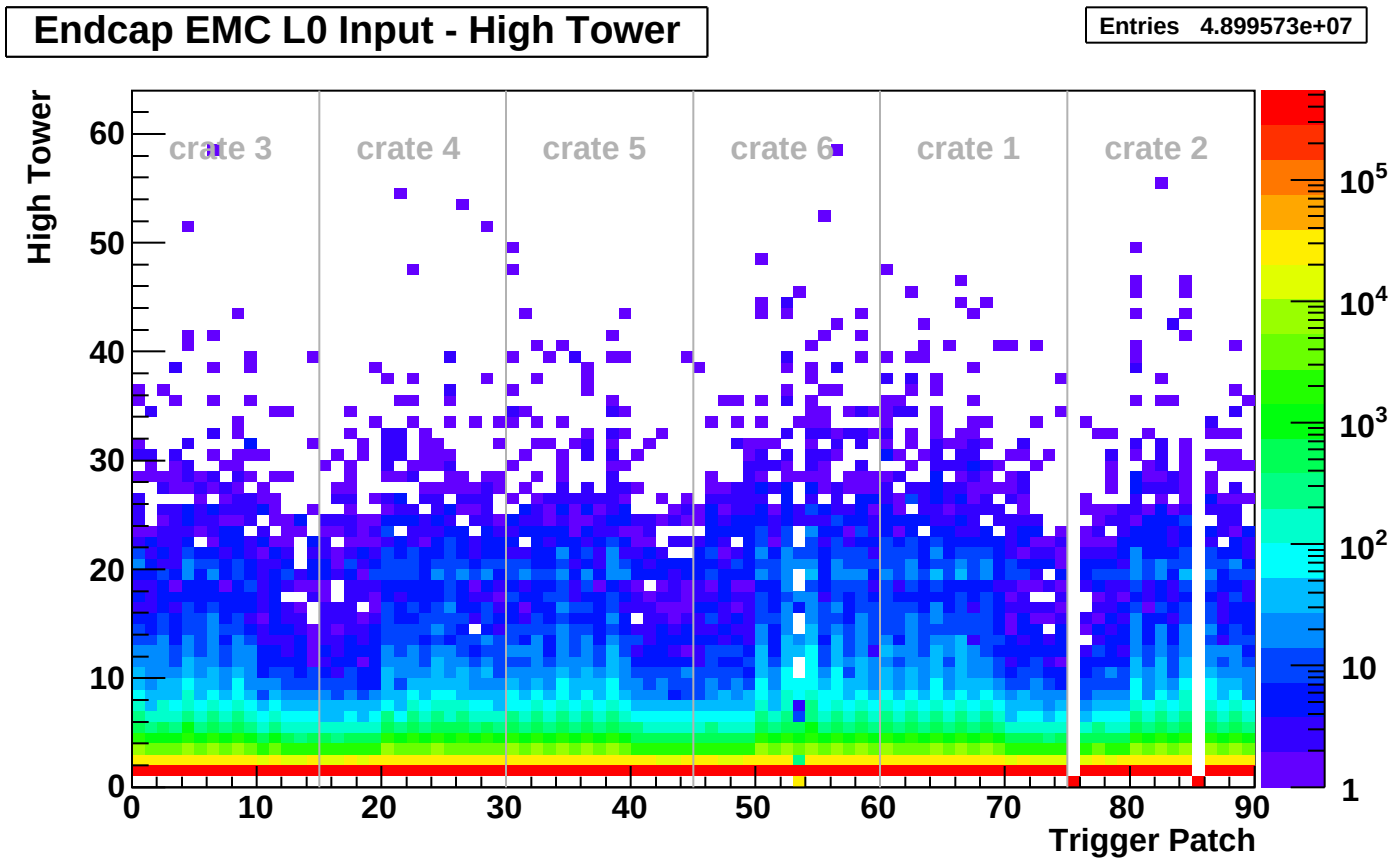

BunchId7Bit (all events)
Entries 544397

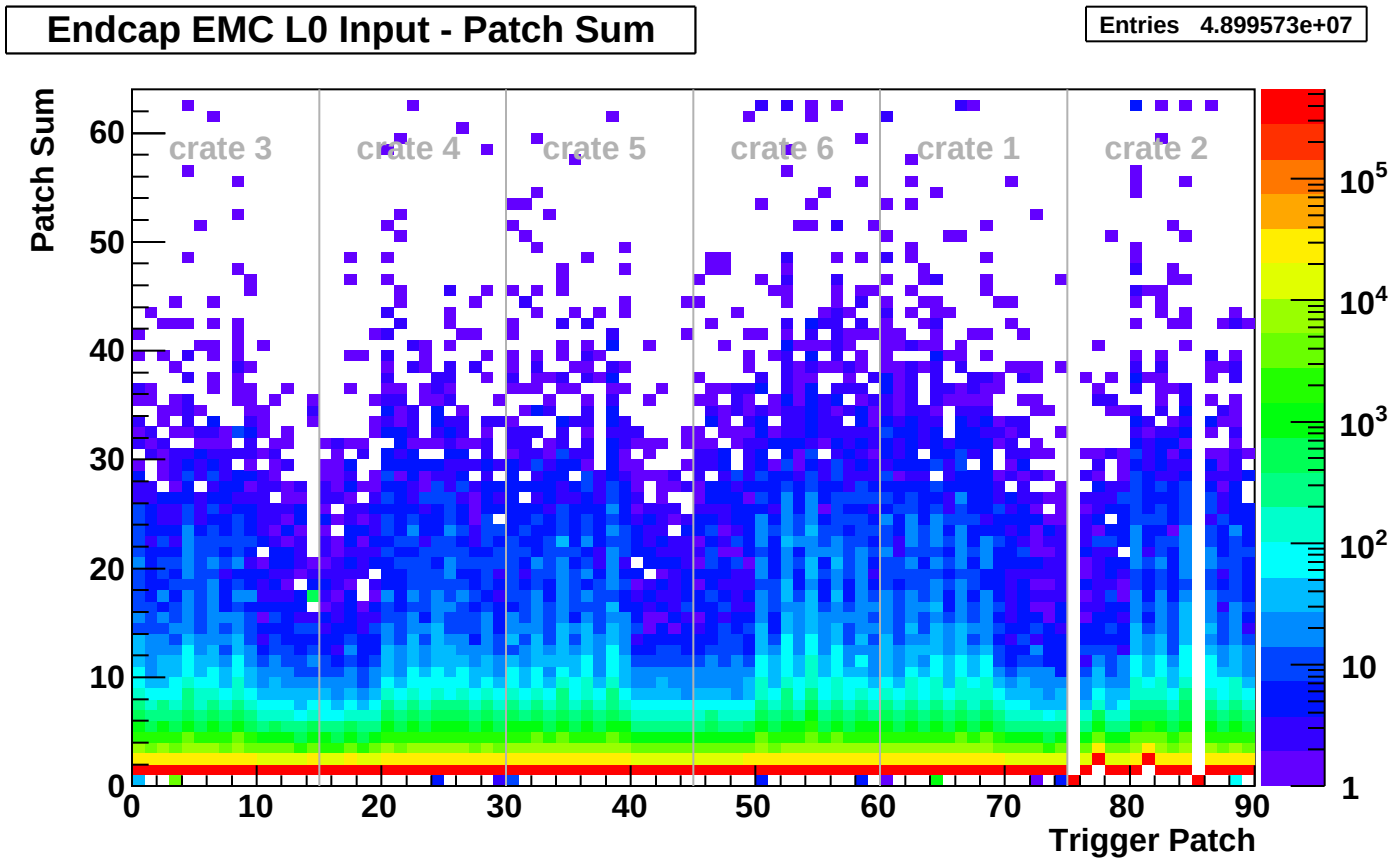

Abort-gaps
Entries 1744

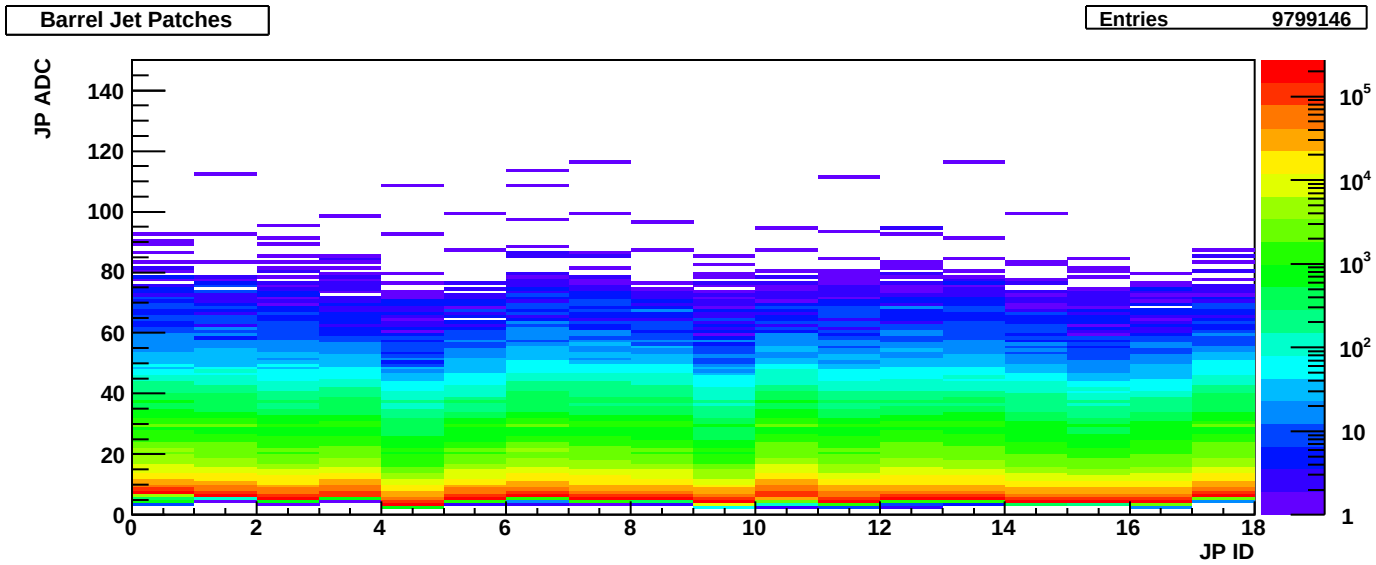

!Yellow-Fill
Entries 19785

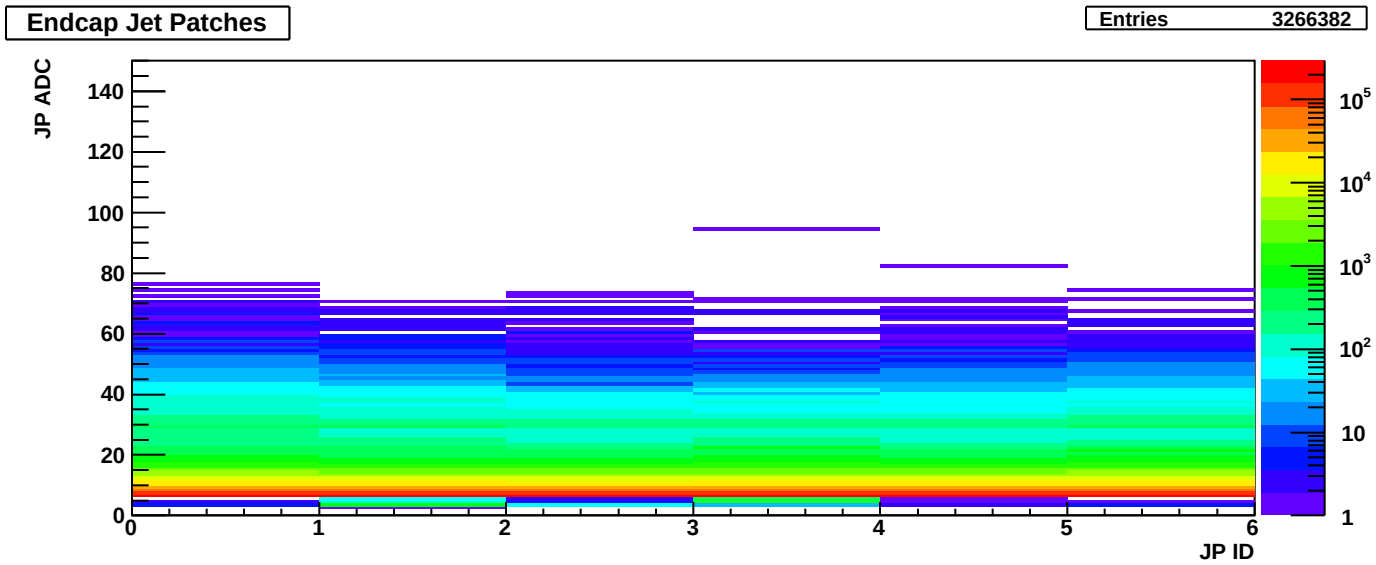

Barrel EMC L0 Input - High Tower
Entries 1.633191e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

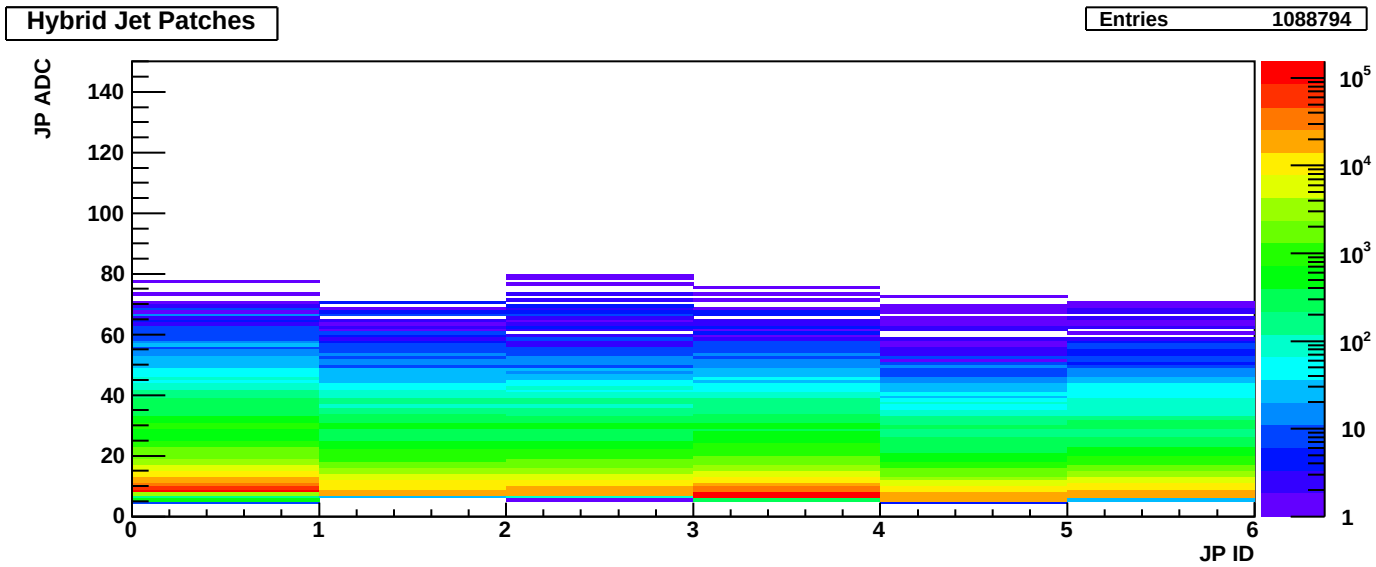

Barrel EMC L0 Input - Patch Sum
Entries 1.633191e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

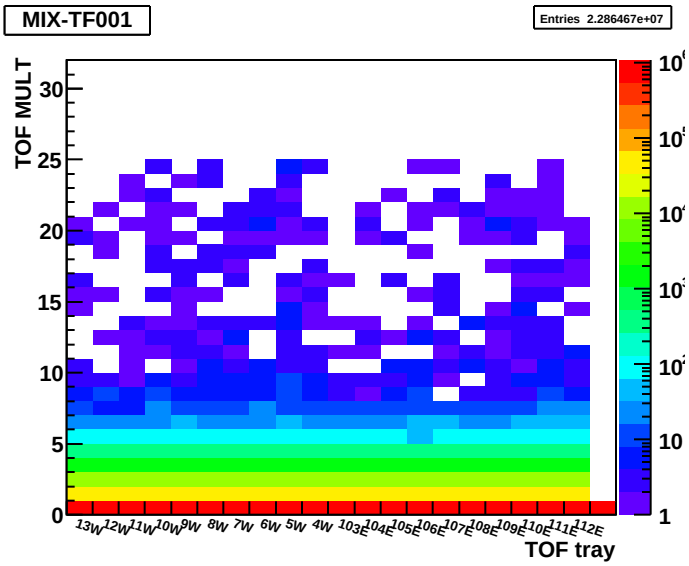

Endcap EMC L0 Input - High Tower
Entries 4.899573e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

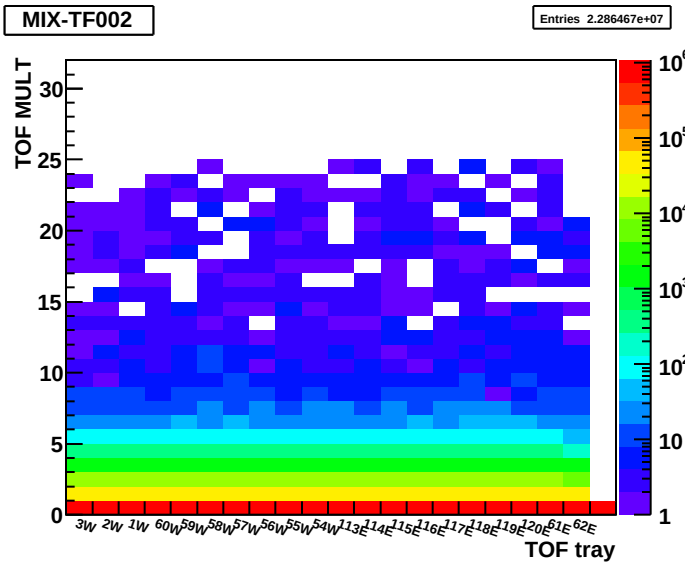

Endcap EMC L0 Input - Patch Sum
Entries 4.899573e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

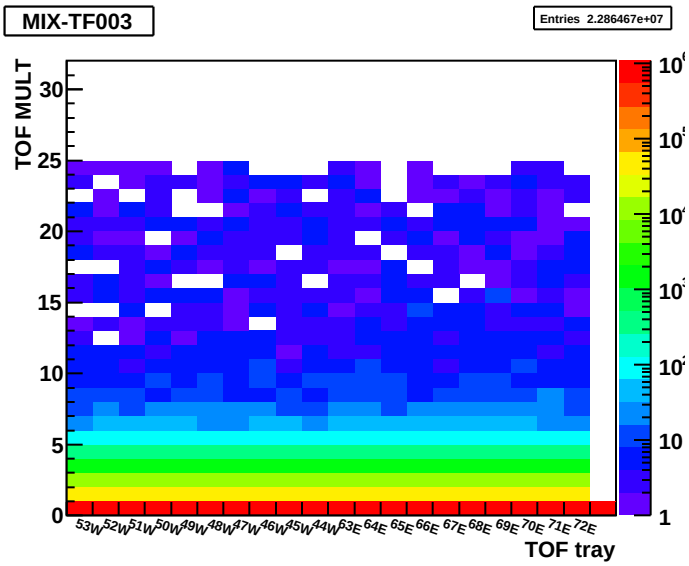

Barrel Jet Patches
Entries 9799146
JP ADC
JP ID

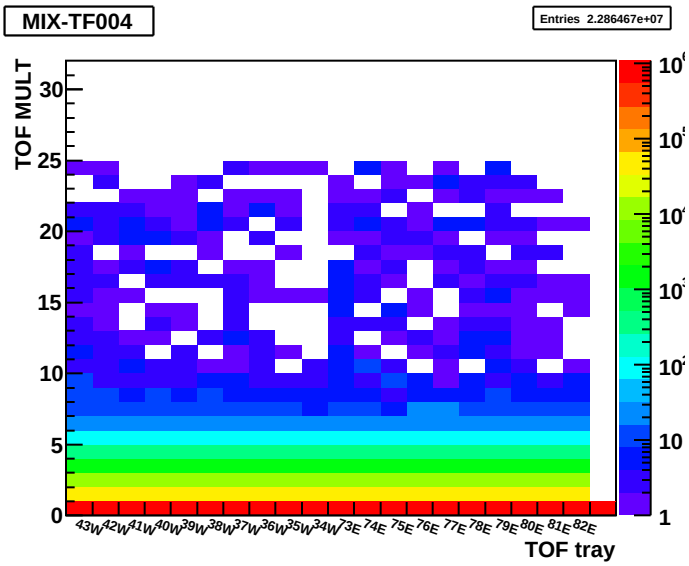

Endcap Jet Patches
Entries 3266382
JP ADC
JP ID

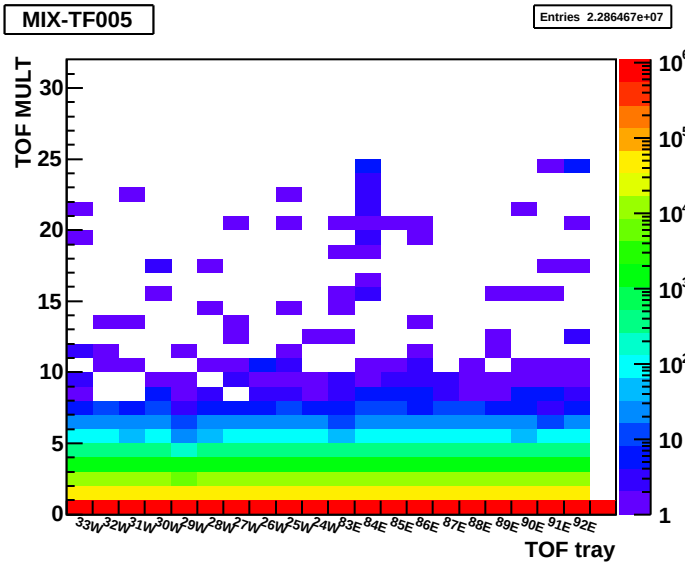

Hybrid Jet Patches
Entries 1088794
JP ADC
JP ID

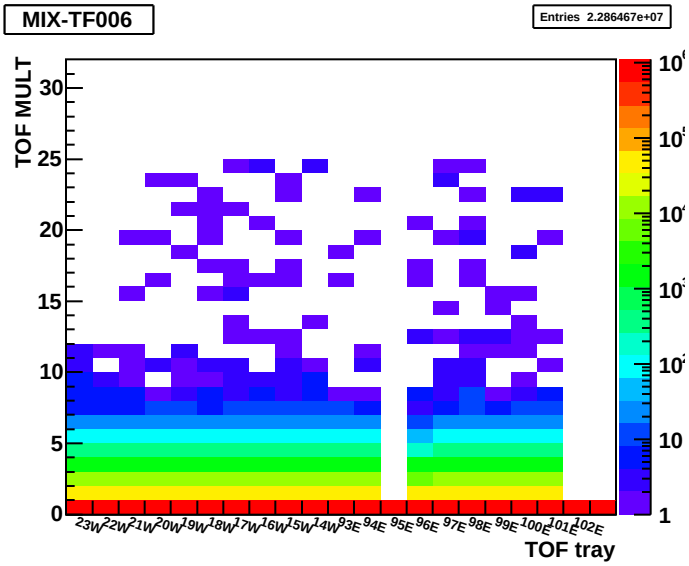

MIX-TF001
Entries 2.286467e+07
TOF MULT
TOF tray

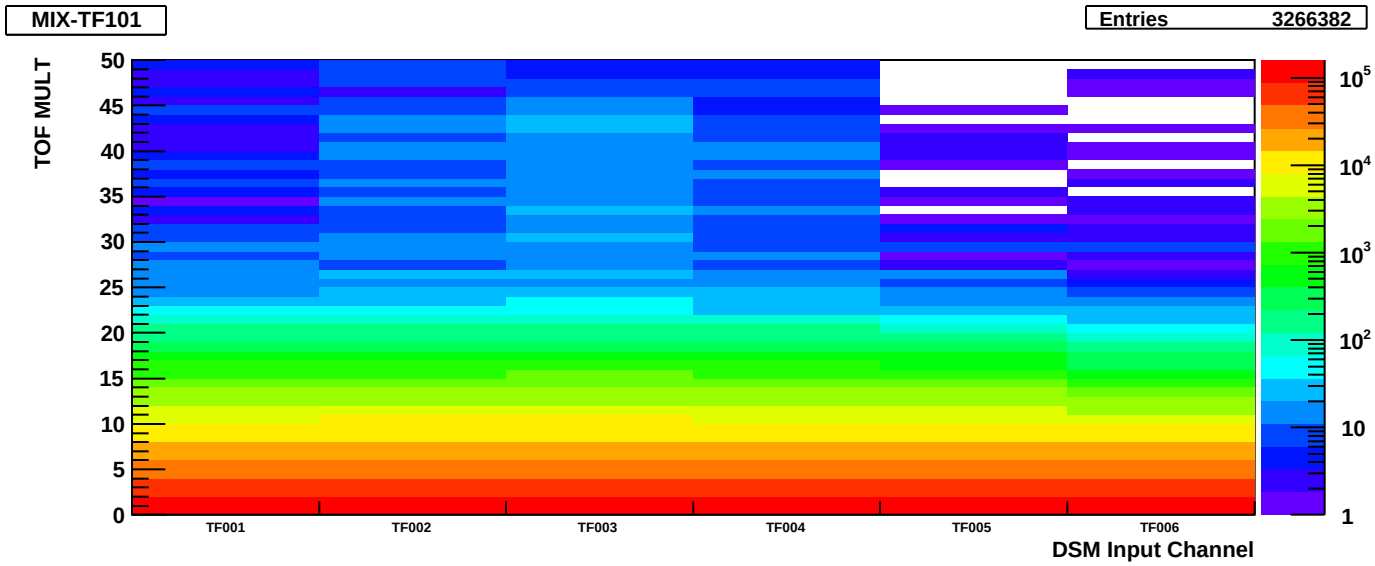

MIX-TF002
Entries 2.286467e+07
TOF MULT
TOF tray

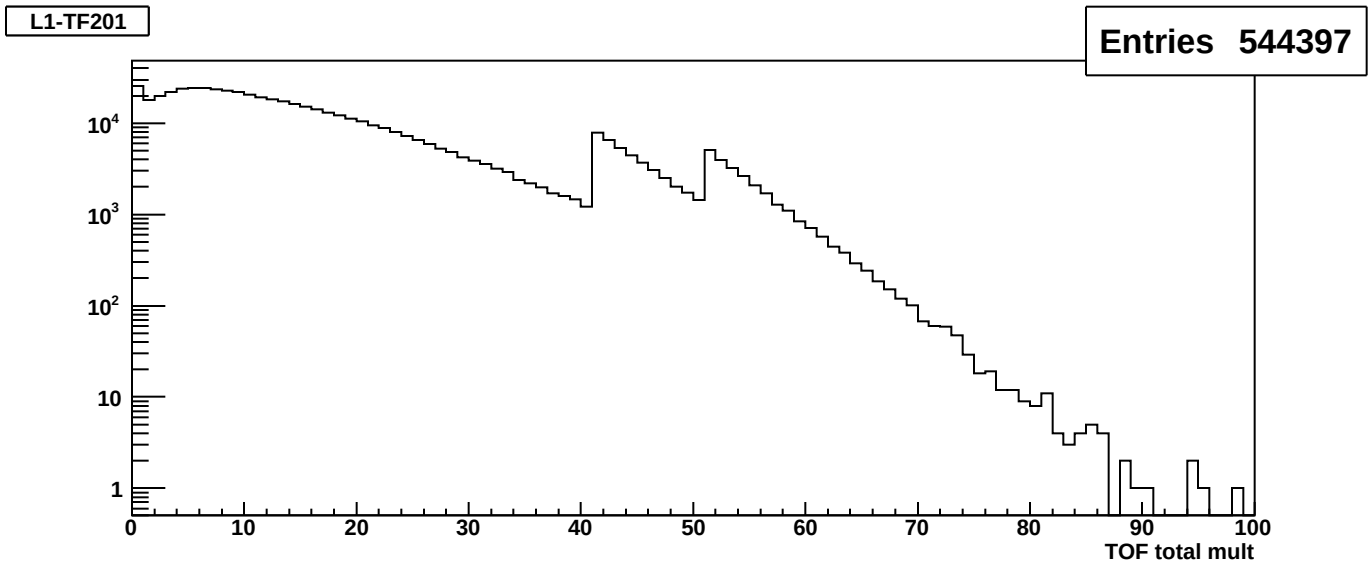

MIX-TF003
Entries 2.286467e+07
TOF MULT
TOF tray

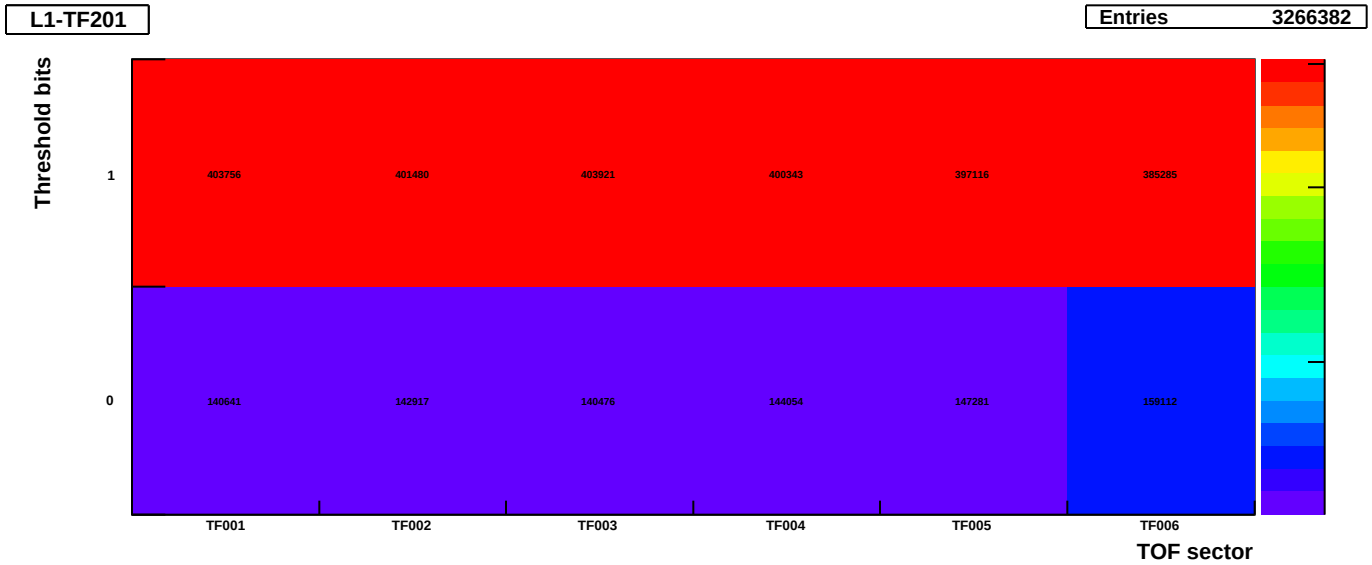

MIX-TF004
Entries 2.286467e+07
TOF MULT
TOF tray

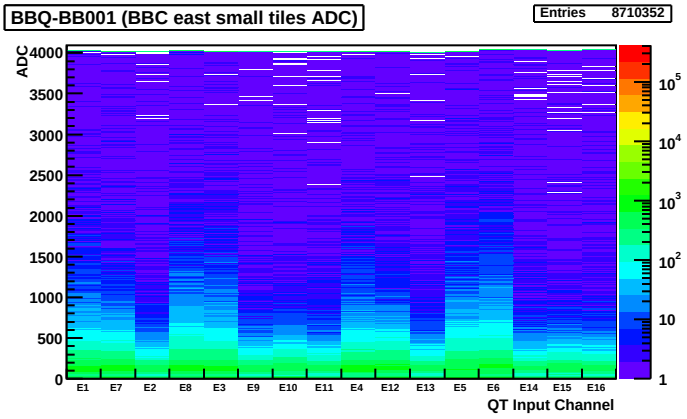

MIX-TF005
Entries 2.286467e+07
TOF MULT
TOF tray

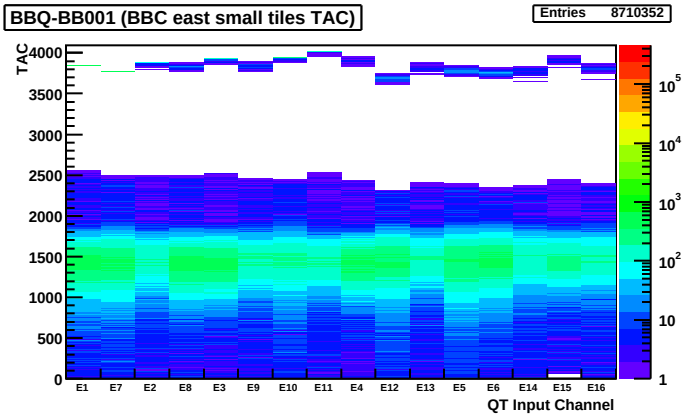

MIX-TF006
Entries 2.286467e+07
TOF MULT
TOF tray

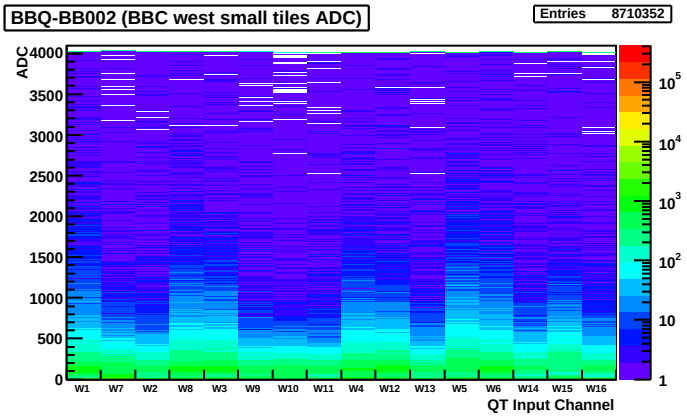

MIX-TF101
Entries 3266382
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

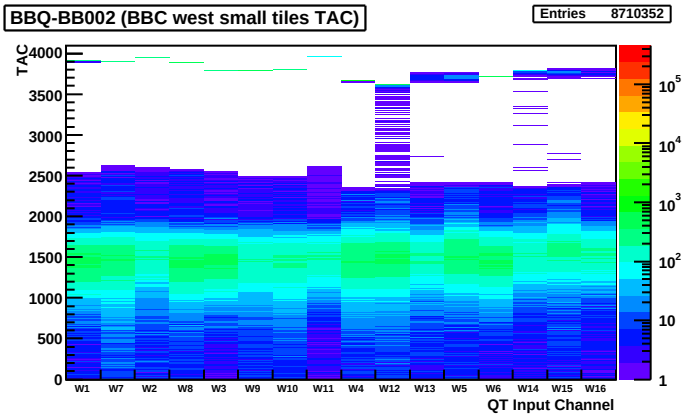

L1-TF201
Entries 544397
TOF total mult

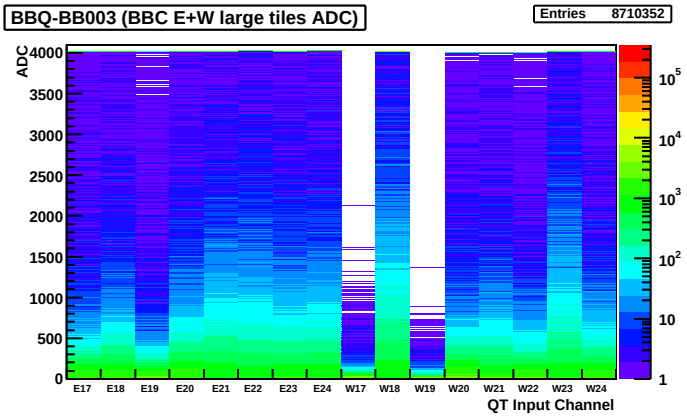

L1-TF201
Entries 3266382
Threshold bits
403756
401480
403921
400343
397116
385285
140641
142917
140476
144054
147281
159112
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

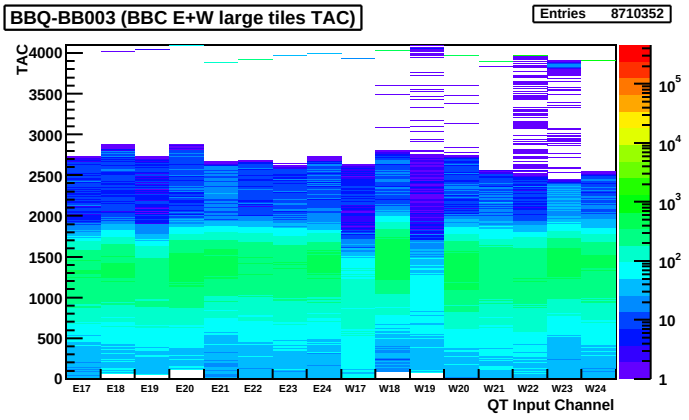

BBQ-BB001 (BBC east small tiles ADC)
Entries 8710352
ADC
QT Input Channel

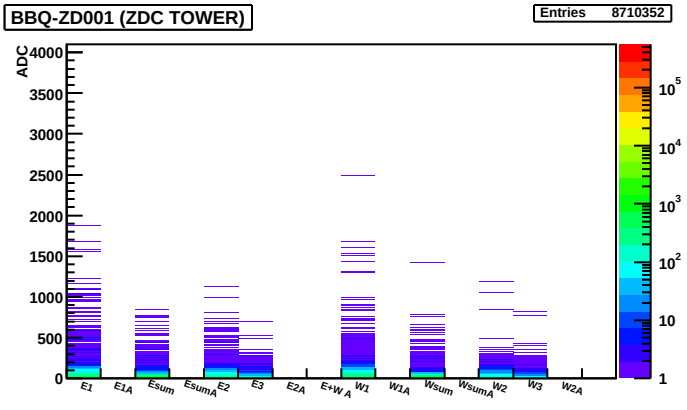

BBQ-BB001 (BBC east small tiles TAC)
Entries 8710352
TAC
QT Input Channel

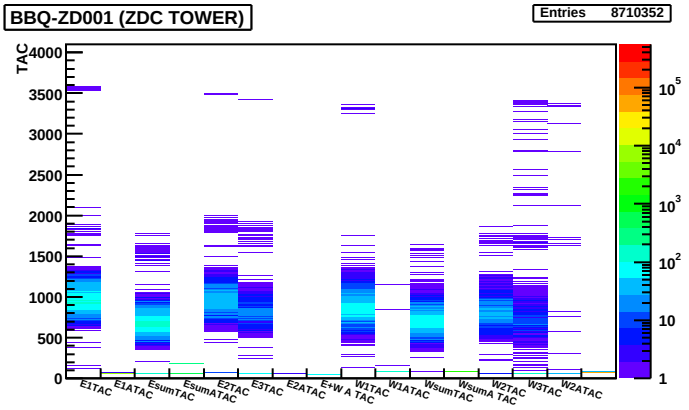

BBQ-BB002 (BBC west small tiles ADC)
Entries 8710352
ADC
QT Input Channel

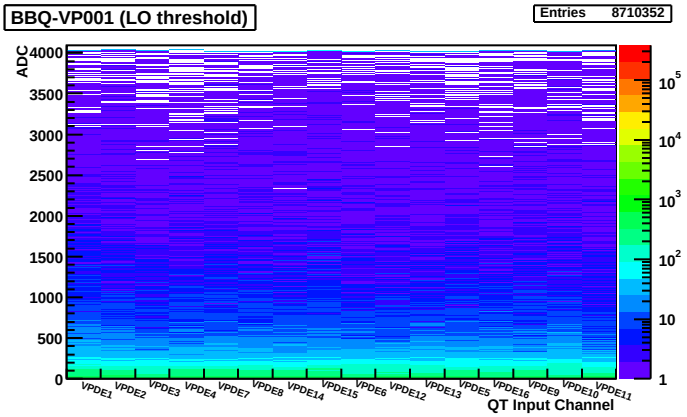

BBQ-BB002 (BBC west small tiles TAC)
Entries 8710352
TAC
QT Input Channel

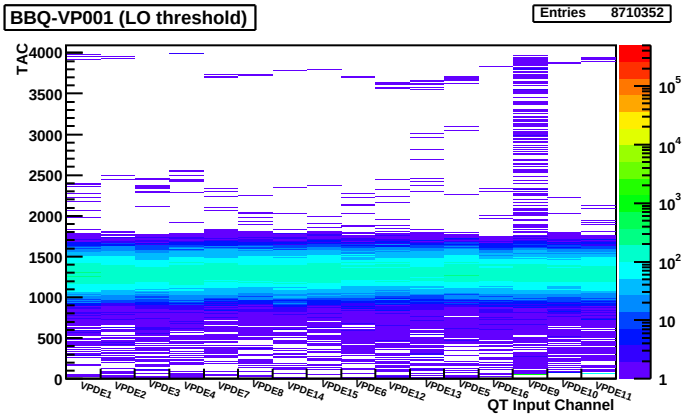

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8710352
ADC
QT Input Channel

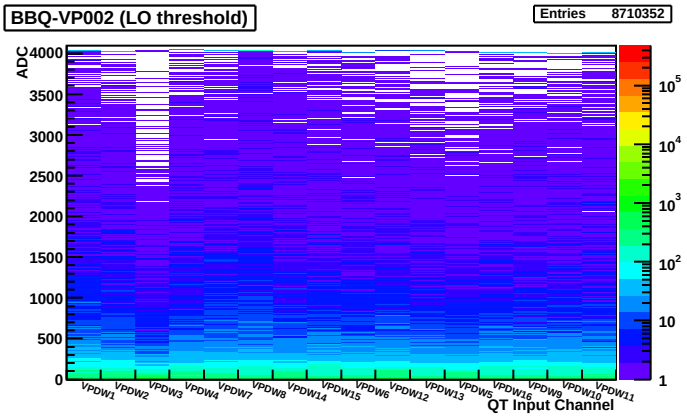

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8710352
TAC
QT Input Channel

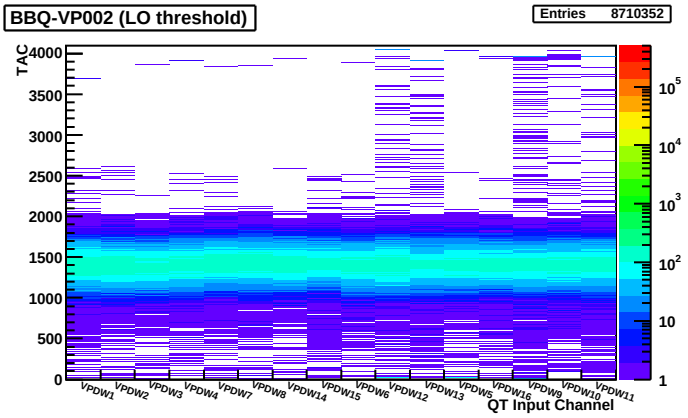

BBQ-ZD001 (ZDC TOWER)
Entries 8710352
ADC

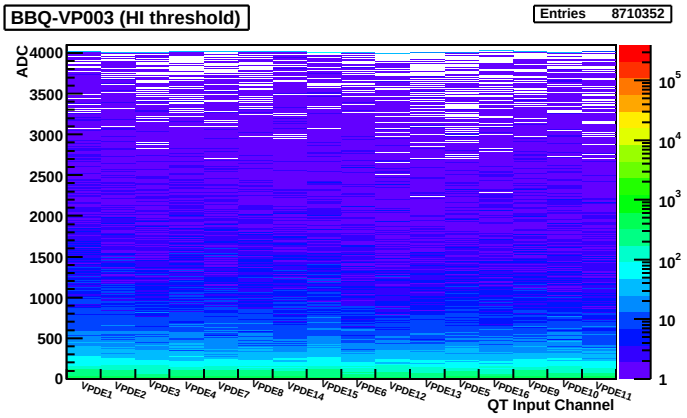

BBQ-ZD001 (ZDC TOWER)
Entries 8710352
TAC

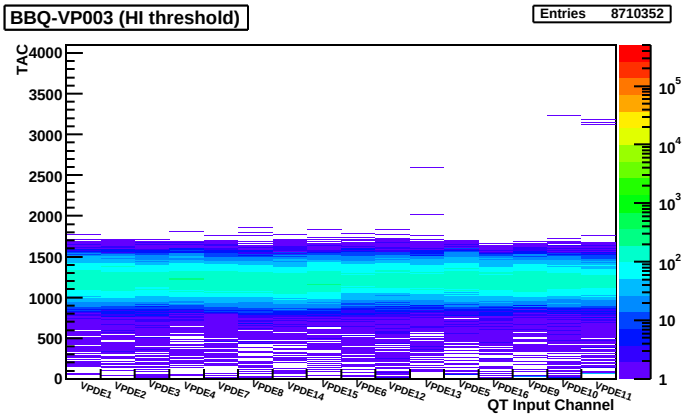

BBQ-VP001 (LO threshold)
Entries 8710352
ADC
QT Input Channel

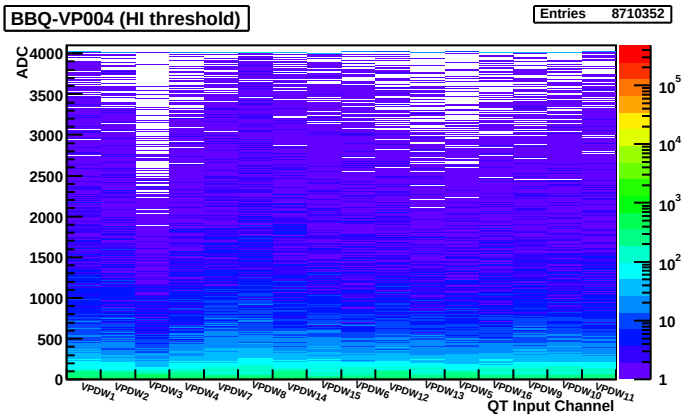

BBQ-VP001 (LO threshold)
Entries 8710352
TAC
QT Input Channel

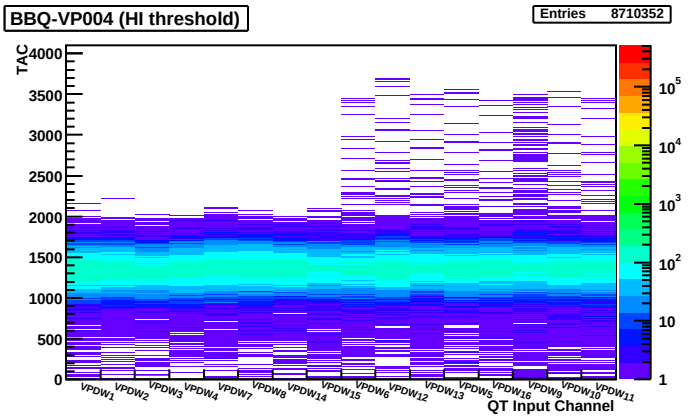

BBQ-VP002 (LO threshold)
Entries 8710352
ADC
QT Input Channel

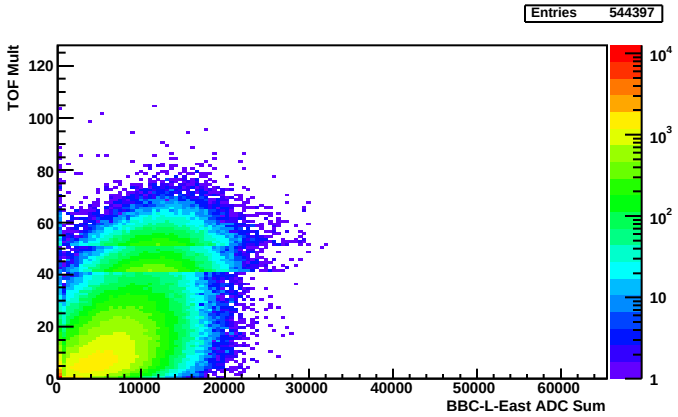

BBQ-VP002 (LO threshold)
Entries 8710352
TAC
QT Input Channel

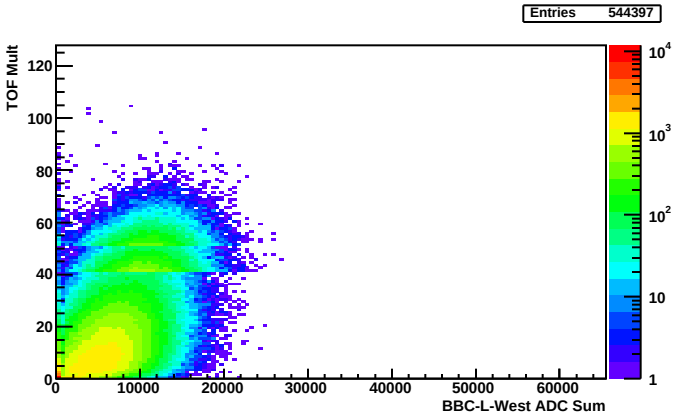

BBQ-VP003 (HI threshold)
Entries 8710352
ADC
QT Input Channel

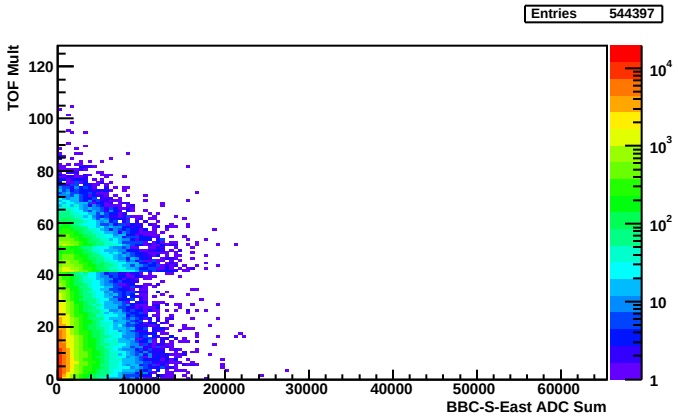

BBQ-VP003 (HI threshold)
Entries 8710352
TAC
QT Input Channel

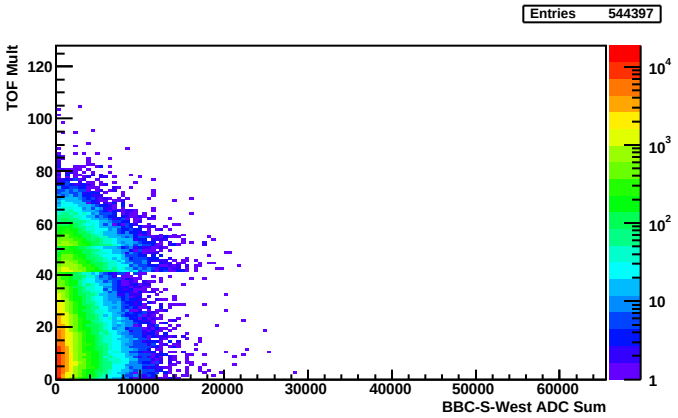

BBQ-VP004 (HI threshold)
Entries 8710352
ADC
QT Input Channel

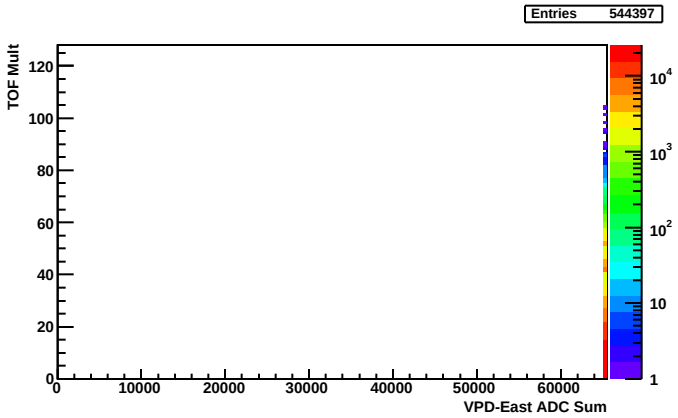

BBQ-VP004 (HI threshold)
Entries 8710352
TAC
QT Input Channel

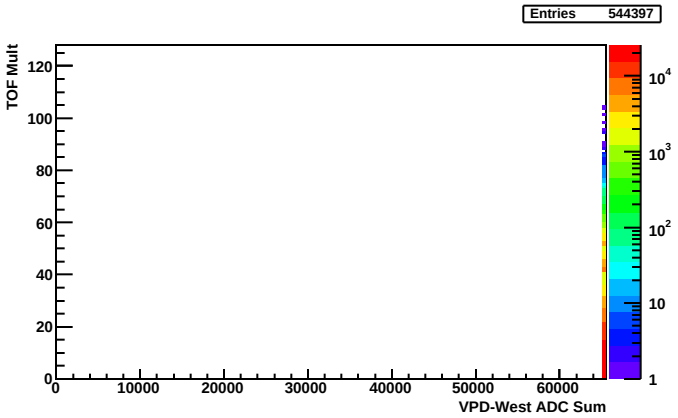

Entries 544397
TOF Mult
BBC-L-East ADC Sum

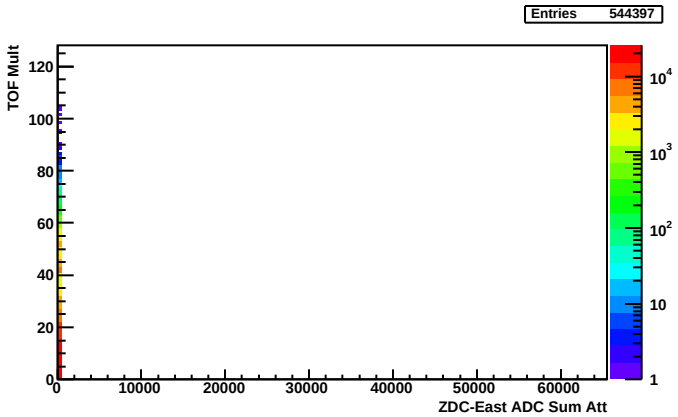

Entries 544397
TOF Mult
BBC-L-West ADC Sum

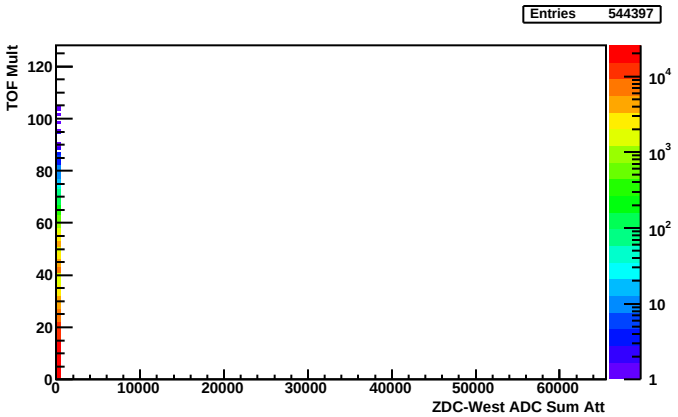

Entries 544397
TOF Mult
BBC-S-East ADC Sum

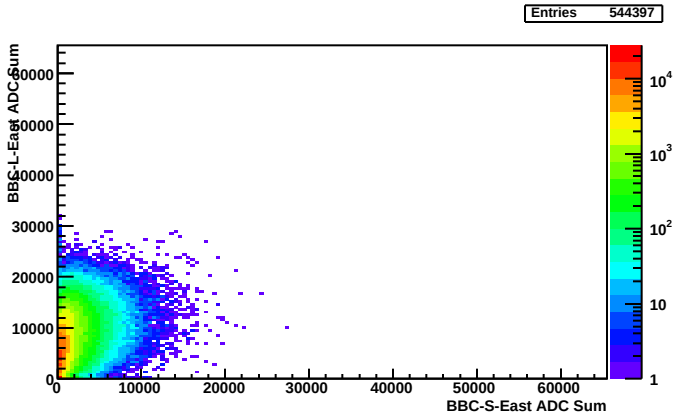

Entries 544397
TOF Mult
BBC-S-West ADC Sum

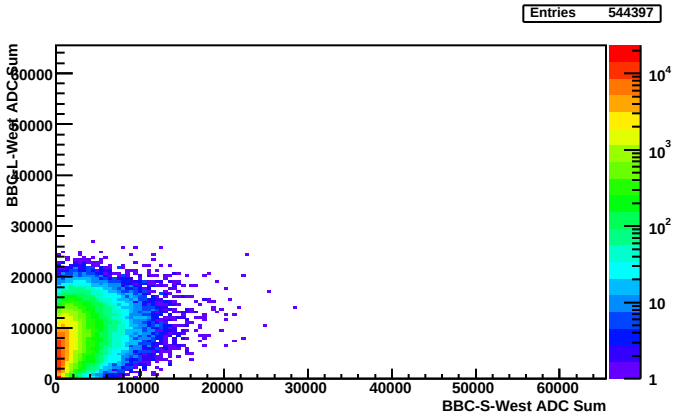

Entries 544397
TOF Mult
VPD-East ADC Sum

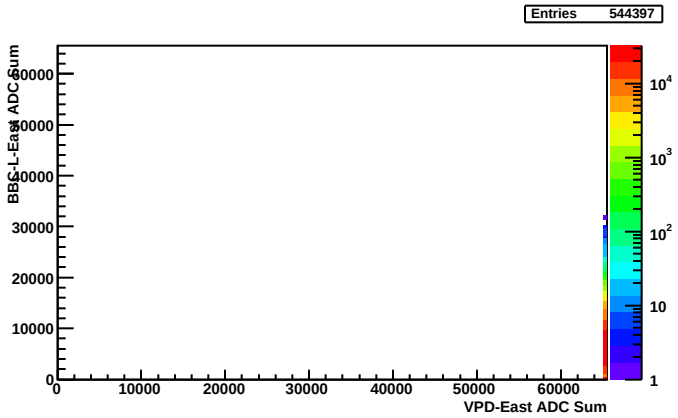

Entries 544397
TOF Mult
VPD-West ADC Sum

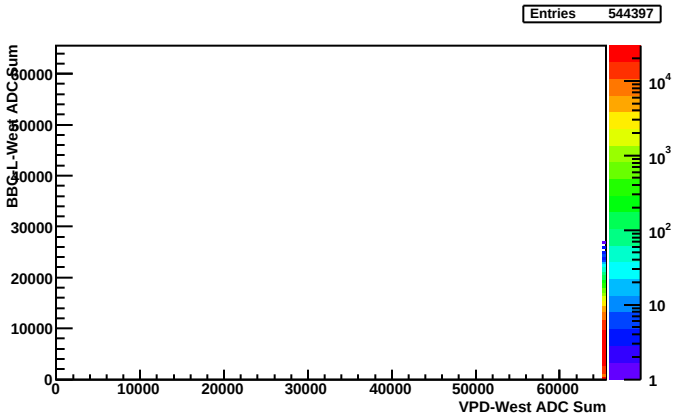

Entries 544397
TOF Mult
ZDC-East ADC Sum Att

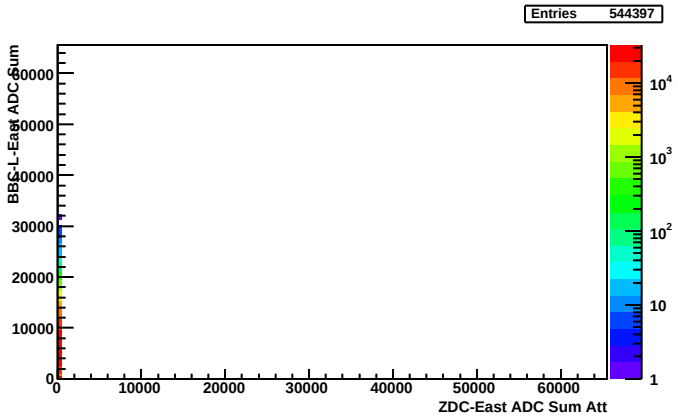

Entries 544397
TOF Mult
ZDC-West ADC Sum Att


Entries 544397
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 544397
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 544397
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 544397
BBC-L-West ADC Sum
VPD-West ADC Sum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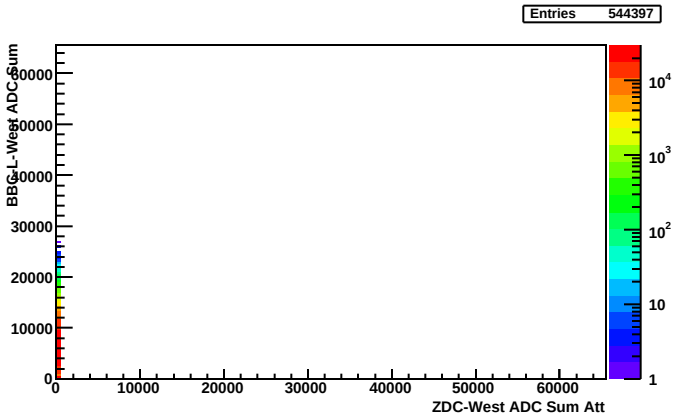
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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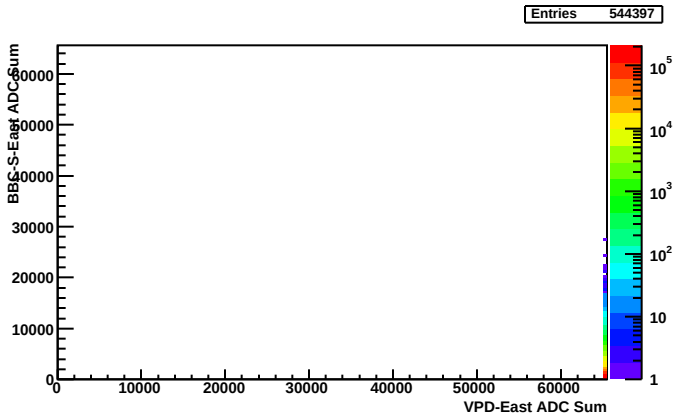
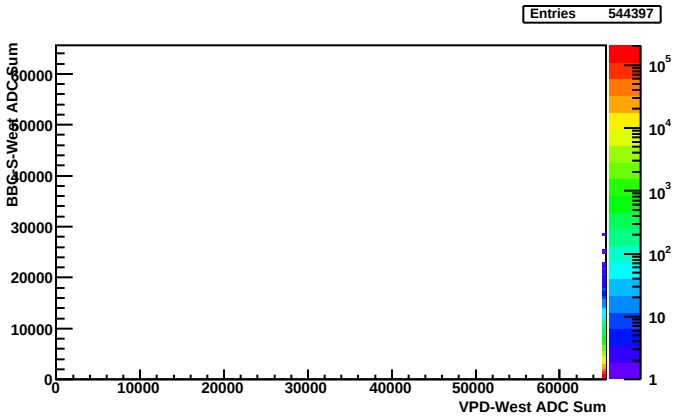
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 544397
BBC-S-East ADC Sum
VPD-East ADC Sum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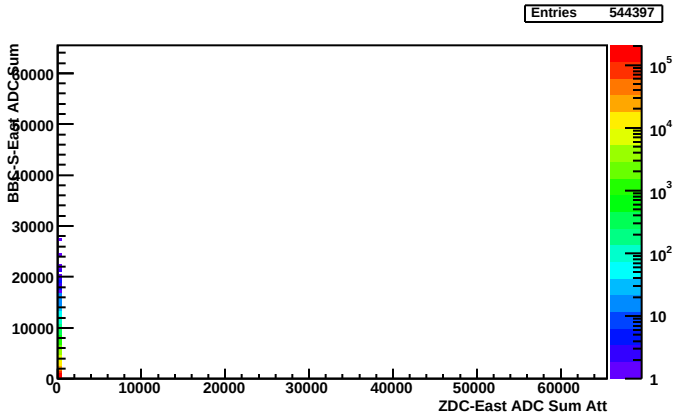
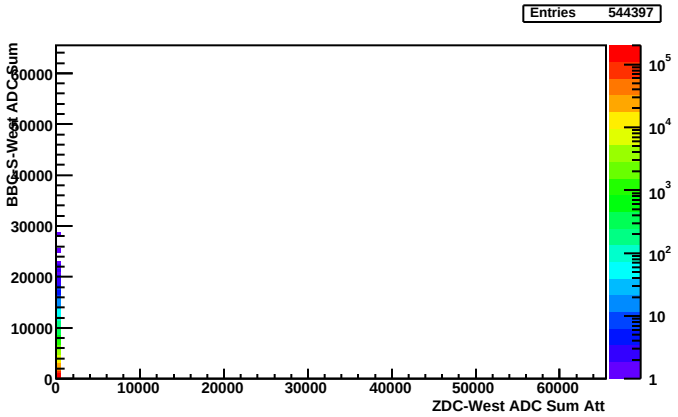
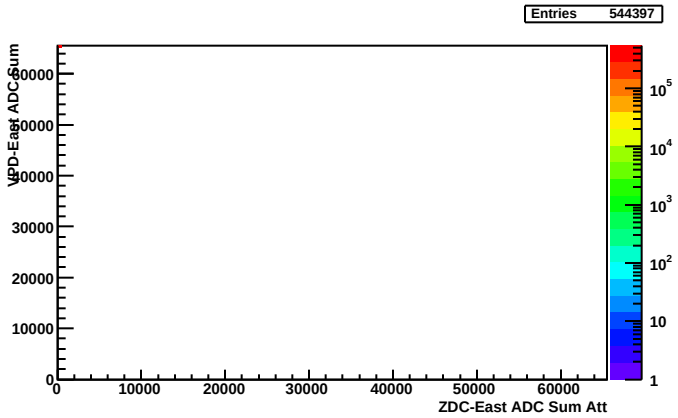
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 544397
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 544397
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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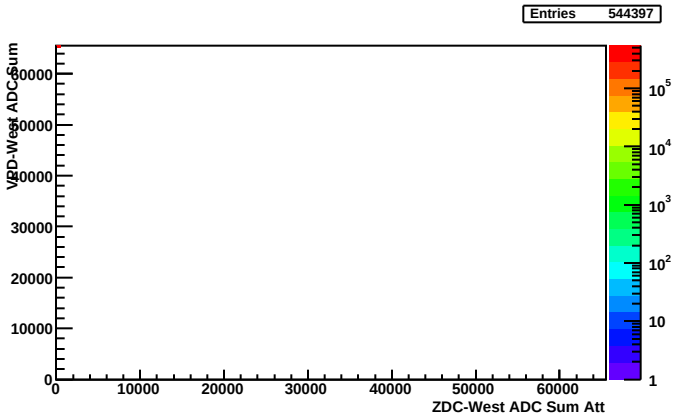
VPD-East ADC Sum
ZDC-East ADC Sum Att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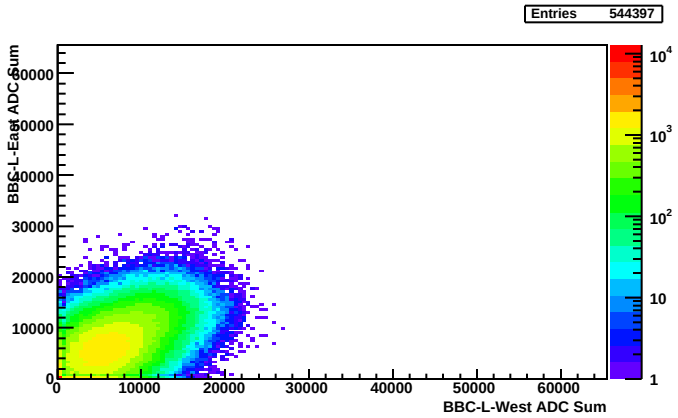
VPD-West ADC Sum
ZDC-West ADC Sum Att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BBC-L-East ADC Sum
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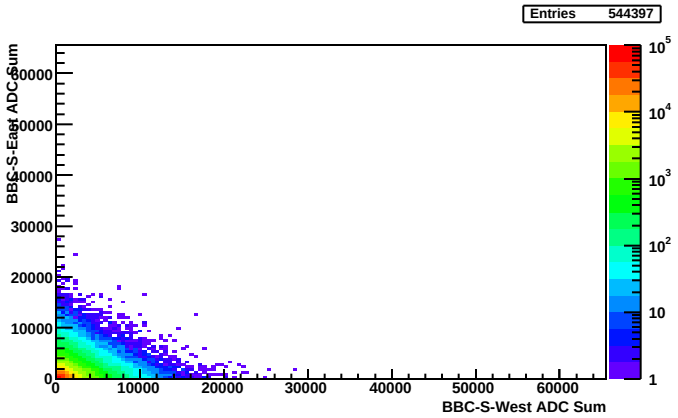
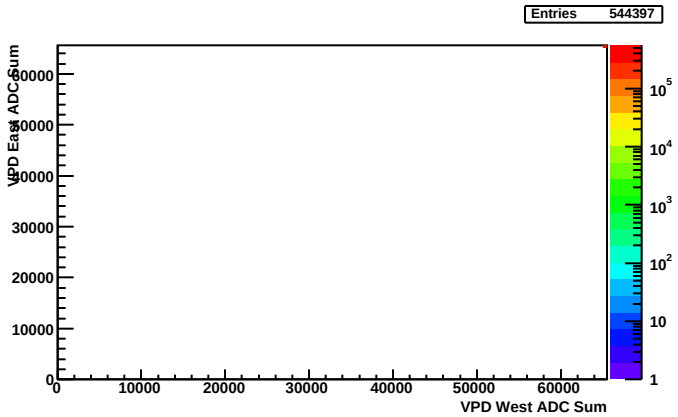
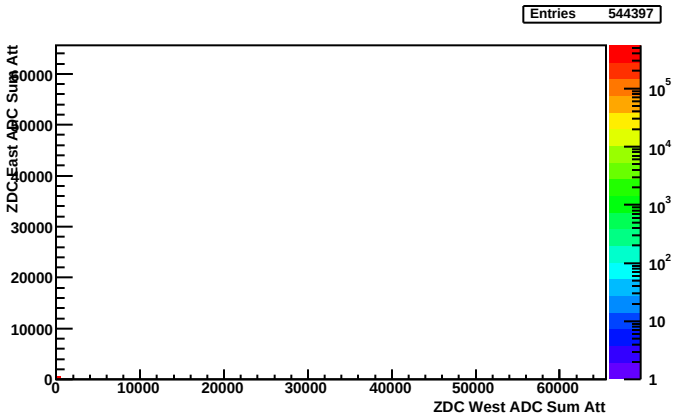
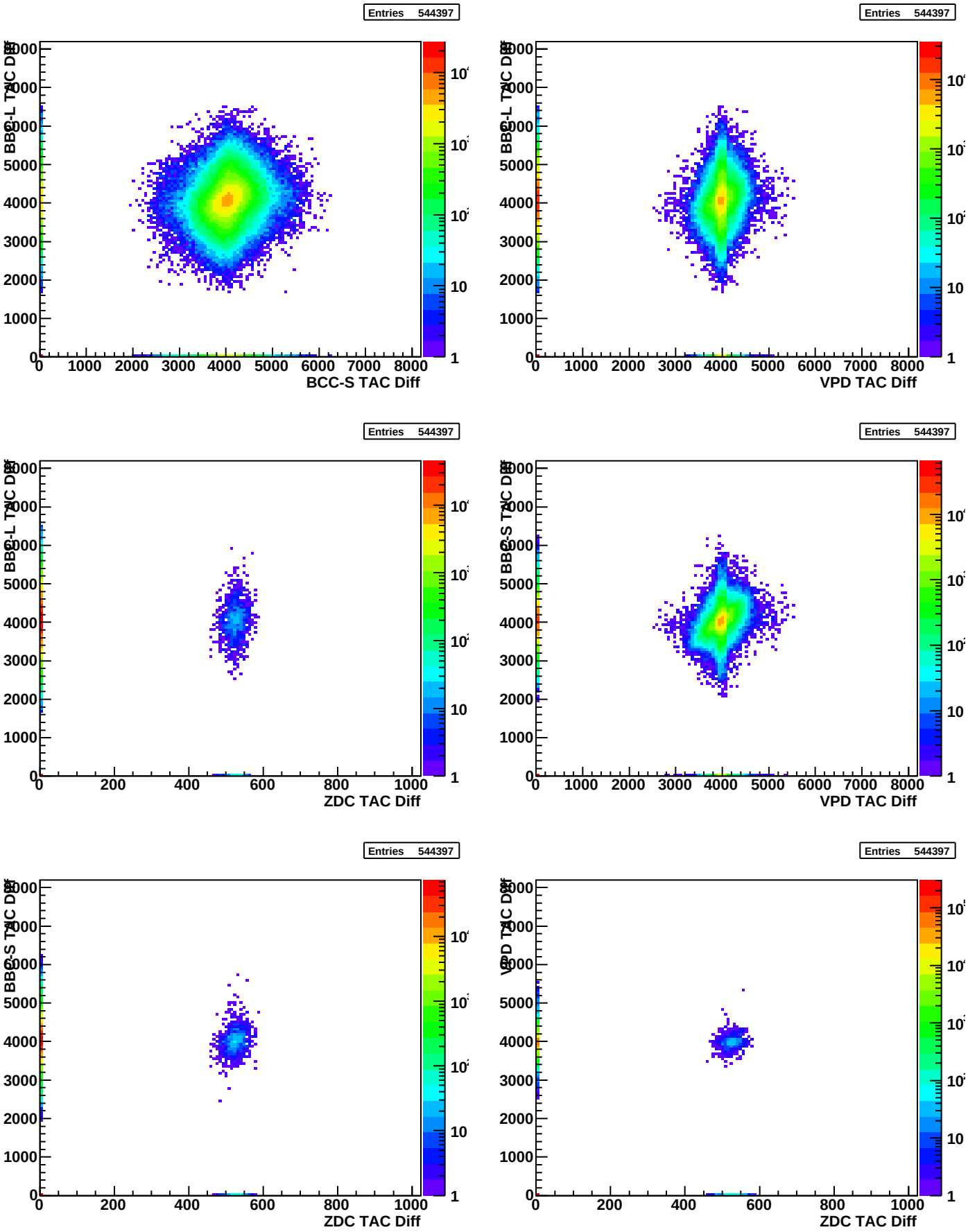
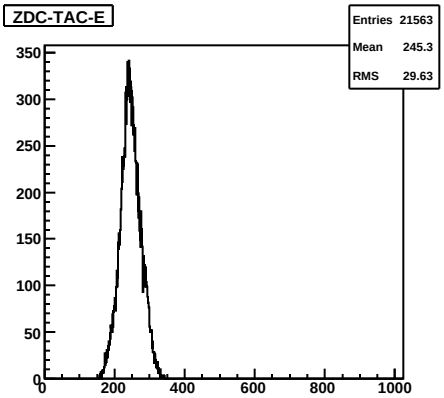
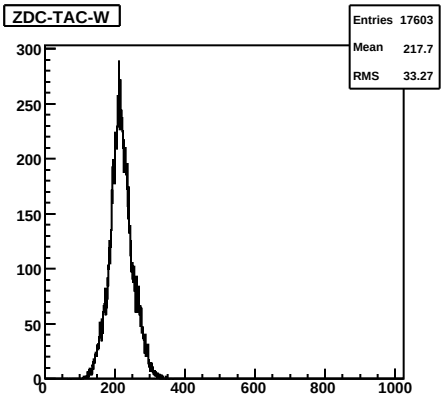

Entries 544397
BBC-S-East ADC Sum
BBC-S-West ADC Sum

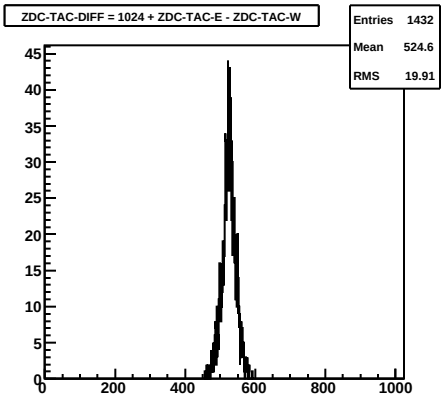

Entries 544397
VPD East ADC Sum
VPD West ADC Sum

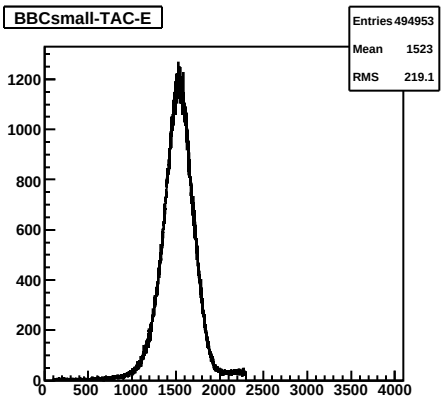

Entries 544397
ZDC East ADC Sum Att
ZDC West ADC Sum Att

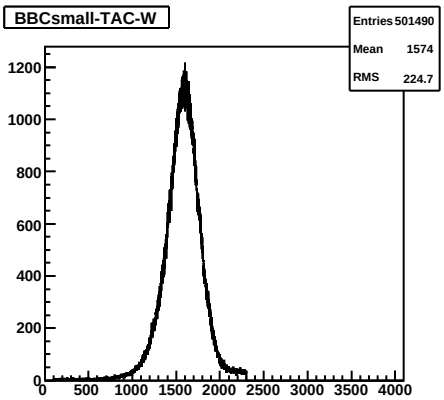

Entries 544397
BBC-L TAC Diff
BCC-S TAC Diff
Entries 544397
BBC-L TAC Diff
VPD TAC Diff
Entries 544397
BBC-L TAC Diff
ZDC TAC Diff
Entries 544397
BBC-S TAC Diff
VPD TAC Diff
Entries 544397
BBC-S TAC Diff
ZDC TAC Diff
Entries 544397
VPD TAC Diff
ZDC TAC Diff

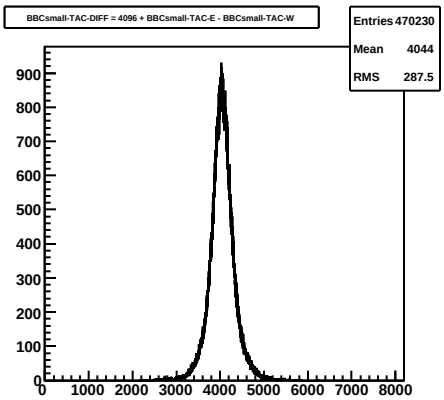

ZDC-TAC-E
Entries 21563
Mean 245.3
RMS 29.63

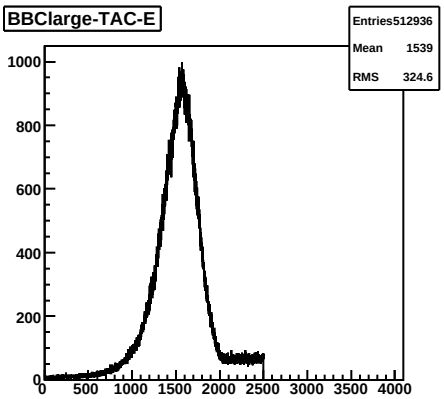

ZDC-TAC-W
Entries 17603
Mean 217.7
RMS 33.27

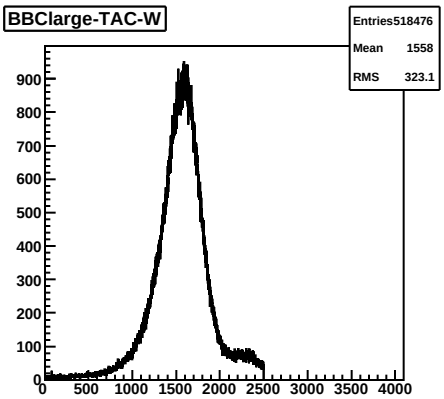

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1432
Mean 524.6
RMS 19.91

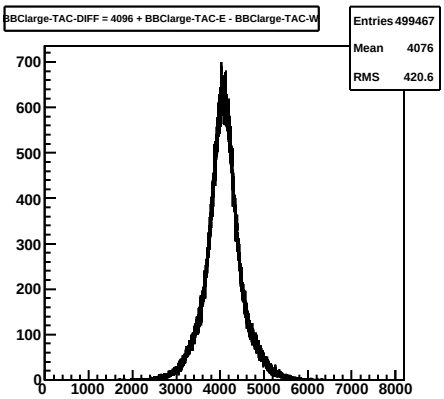

BBCsmall-TAC-E
Entries 494953
Mean 1523
RMS 219.1

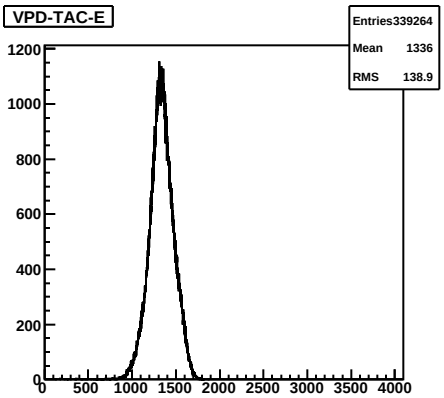

BBCsmall-TAC-W
Entries 501490
Mean 1574
RMS 224.7

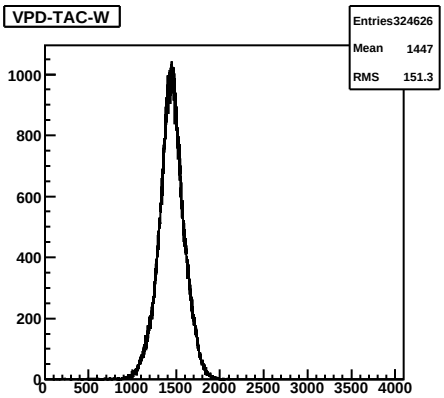

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 470230
Mean 4044
RMS 287.5

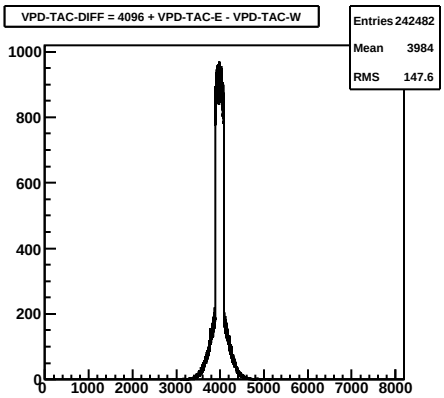

BBClarge-TAC-E
Entries 512936
Mean 1539
RMS 324.6

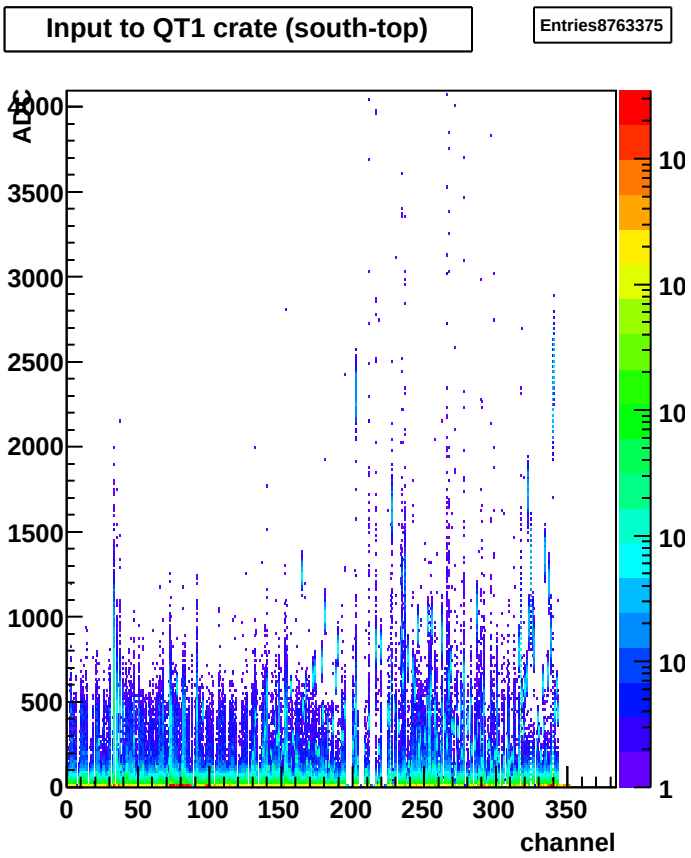

BBClarge-TAC-W
Entries 518476
Mean 1558
RMS 323.1

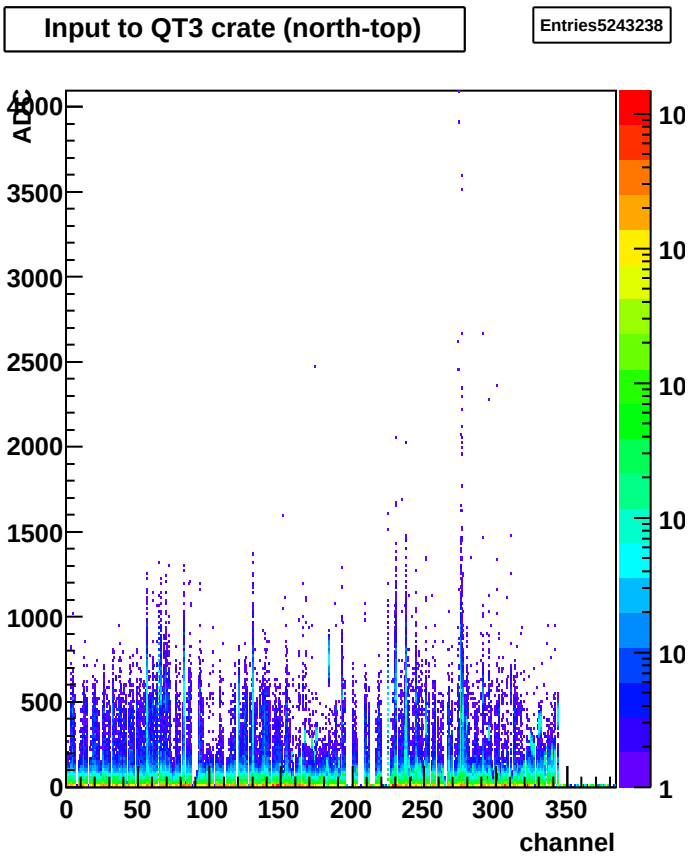

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 499467
Mean 4076
RMS 420.6

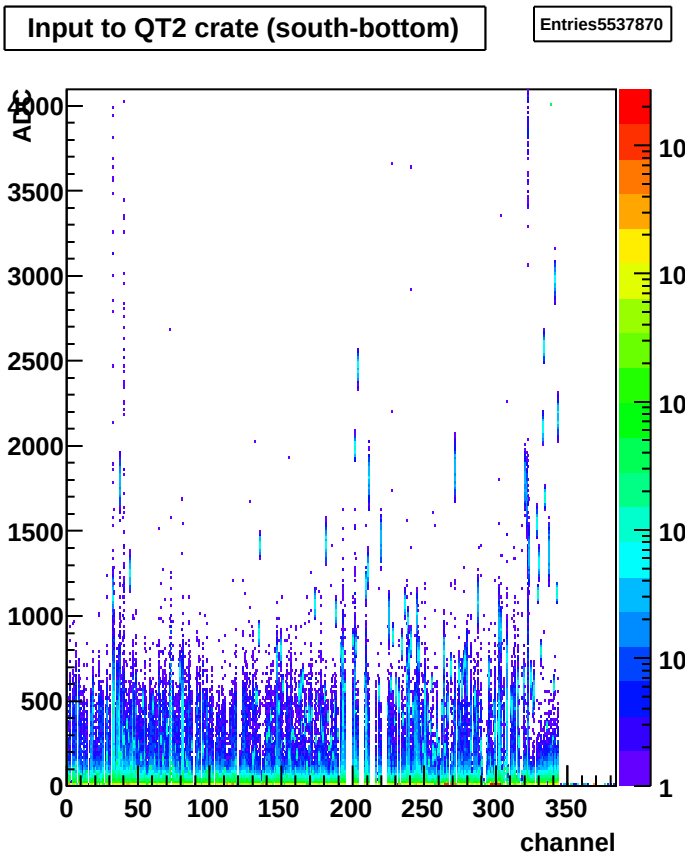

VPD-TAC-E
Entries 339264
Mean 1336
RMS 138.9

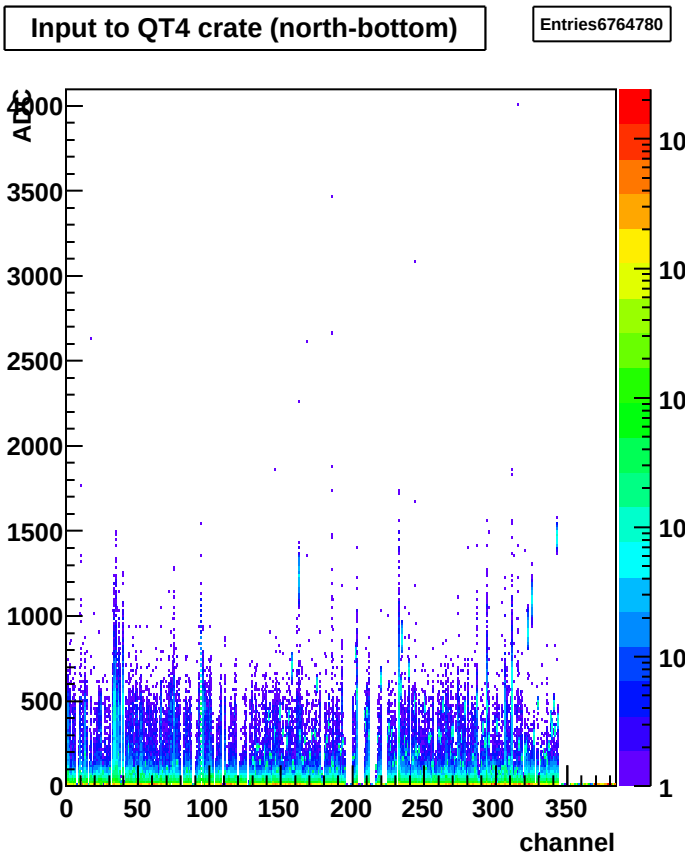

VPD-TAC-W
Entries 324626
Mean 1447
RMS 151.3

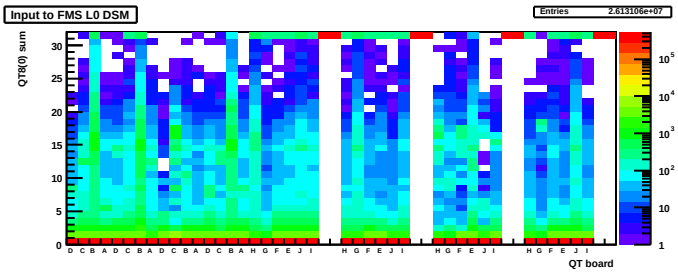

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 242482
Mean 3984
RMS 147.6

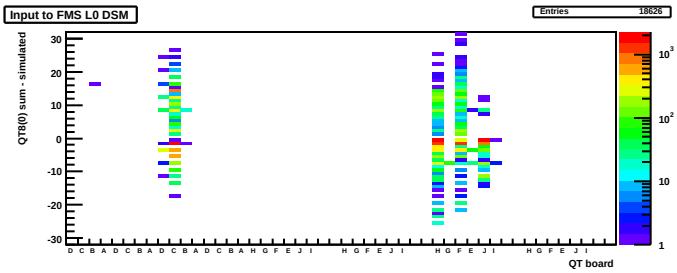

Input to QT1 crate (south-top)
Entries8763375
ADC
channel

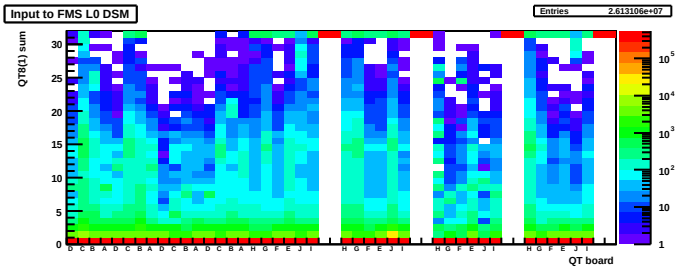

Input to QT3 crate (north-top)
Entries5243238
ADC
channel

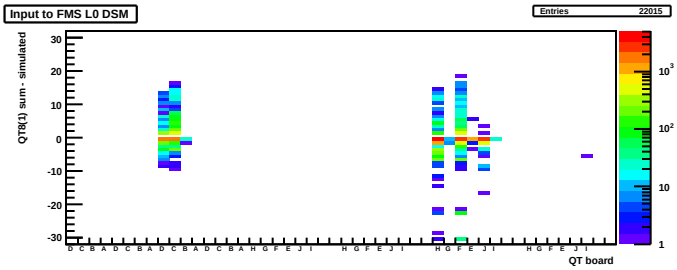

Input to QT2 crate (south-bottom)
Entries5537870
ADC
channel

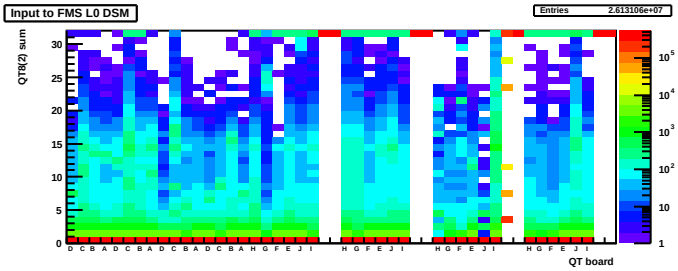

Input to QT4 crate (north-bottom)
Entries6764780
ADC
channel

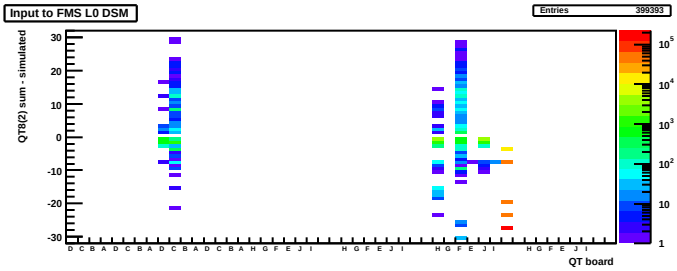

Input to FMS L0 DSM
Entries 2.613106e+07
QT8(0) sum
QT board

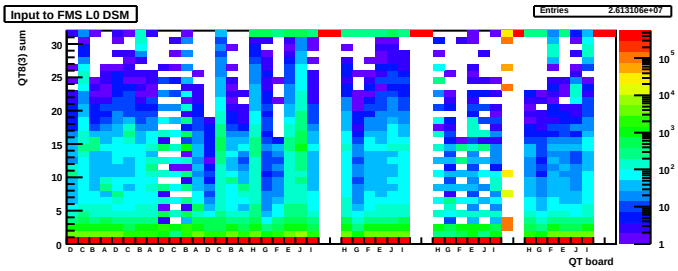

Input to FMS L0 DSM
Entries 18626
QT8(0) sum - simulated
QT board

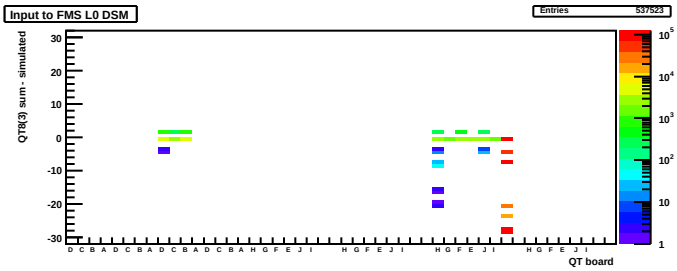

Input to FMS L0 DSM
Entries 2.613106e+07
QT8(1) sum
QT board

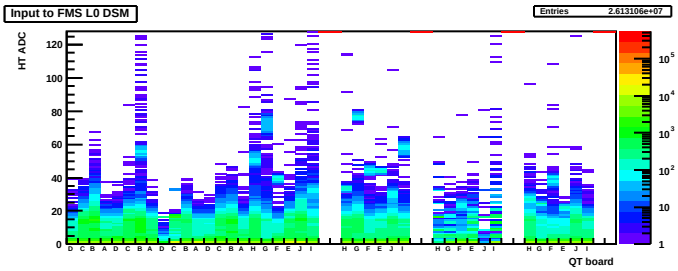

Input to FMS L0 DSM
Entries 22015
QT8(1) sum - simulated
QT board

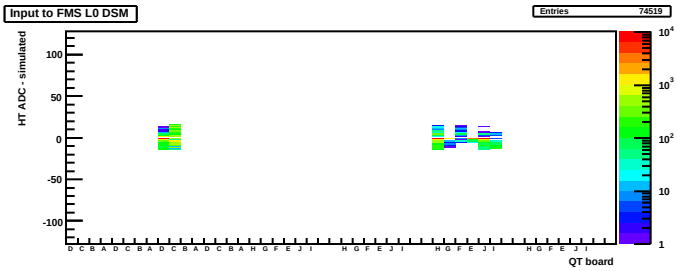

Input to FMS L0 DSM
Entries 2.613106e+07
QT8(2) sum
QT board

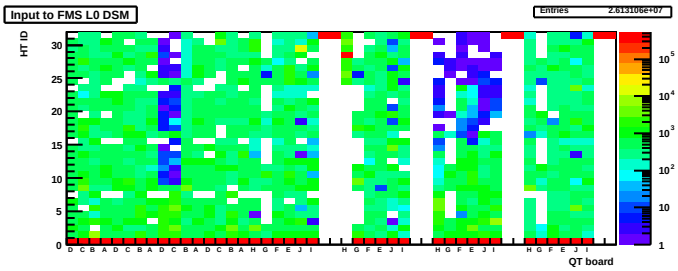

Input to FMS L0 DSM
Entries 399393
QT8(2) sum - simulated
QT board

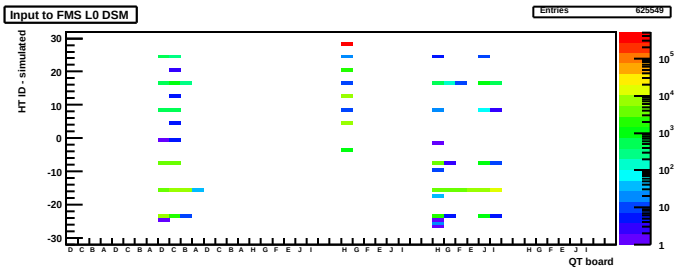

Input to FMS L0 DSM
Entries 2.613106e+07
QT8(3) sum
QT board

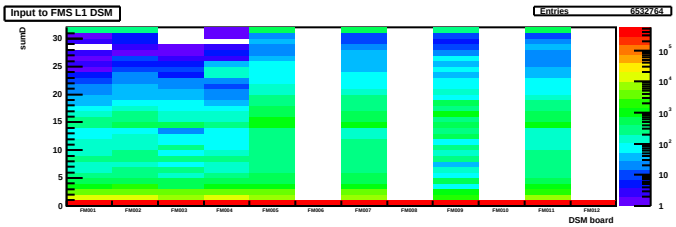

Input to FMS L0 DSM
Entries 537523
QT8(3) sum - simulated
QT board

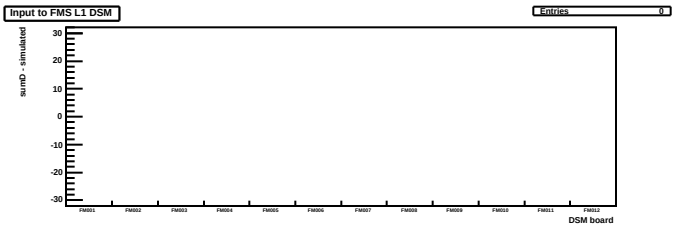

Input to FMS L0 DSM
Entries 2.613106e+07
HT ADC
QT board

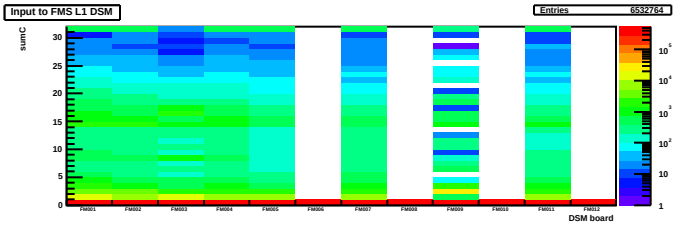

Input to FMS L0 DSM
Entries 74519
HT ADC - simulated
QT board

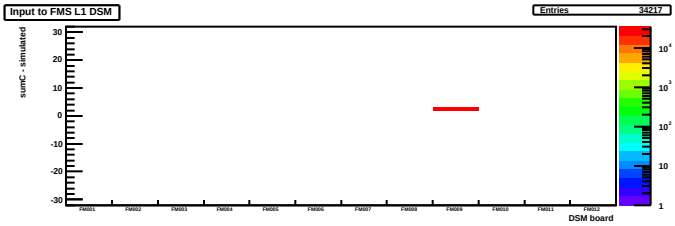

Input to FMS L0 DSM
Entries 2.613106e+07
HT ID
QT board

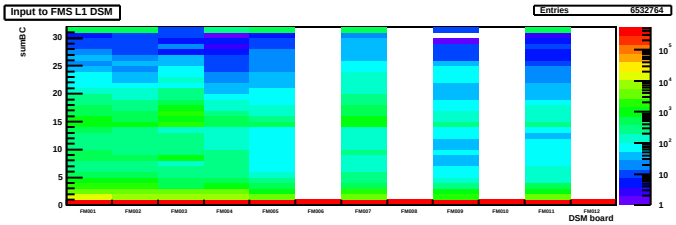

Input to FMS L0 DSM
Entries 625549
HT ID - simulated
QT board

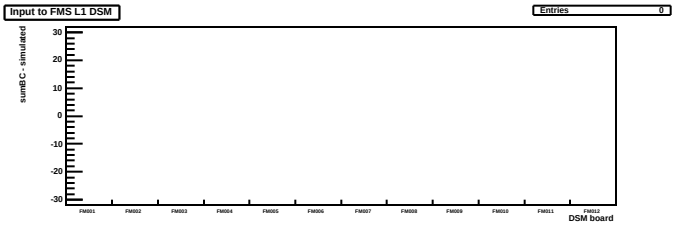

Input to FMS L1 DSM
Entries 6532764
sumD
DSM board

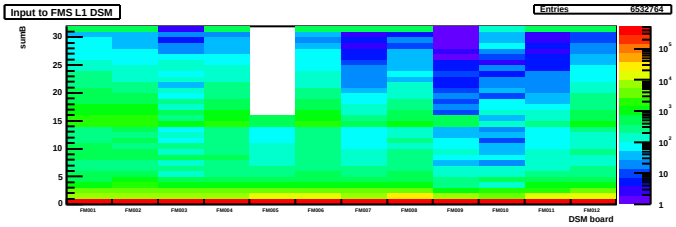

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

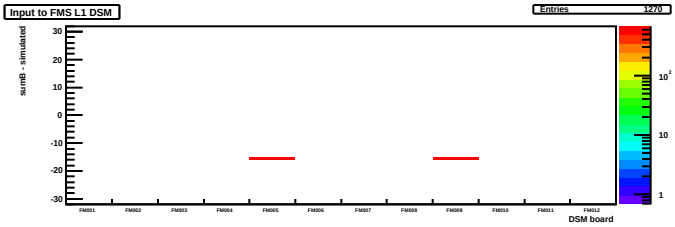

Input to FMS L1 DSM
Entries 6532764
sumC
DSM board

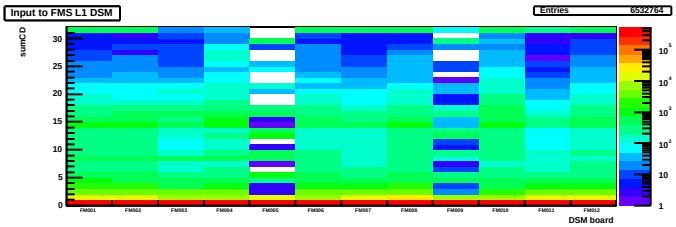

Input to FMS L1 DSM
Entries 34217
sumC - simulated
DSM board

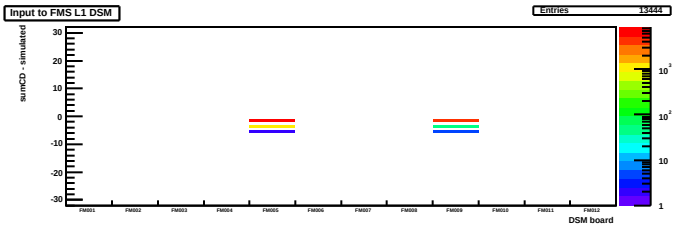

Input to FMS L1 DSM
Entries 6532764
sumBC
DSM board

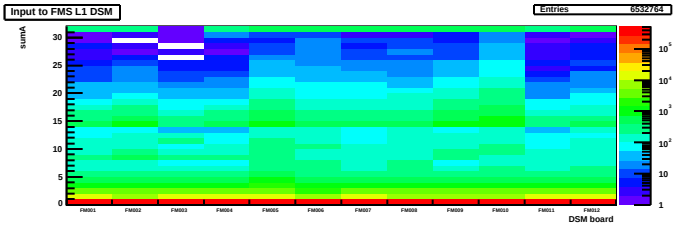

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

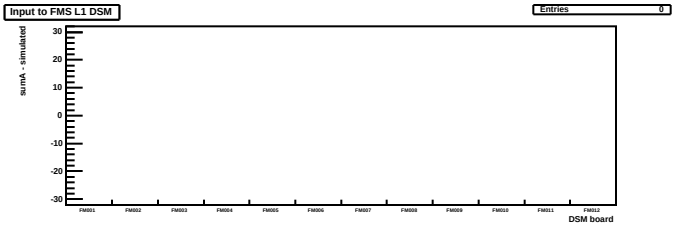

Input to FMS L1 DSM
Entries 6532764
sumB
DSM board

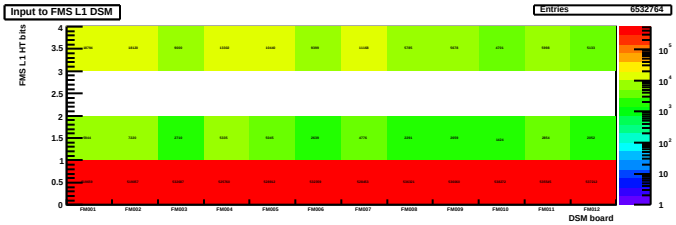

Input to FMS L1 DSM
Entries 1270
sumB - simulated
DSM board

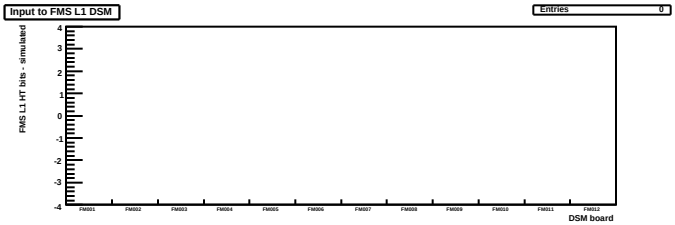

Input to FMS L1 DSM
Entries 6532764
sumCD
DSM board

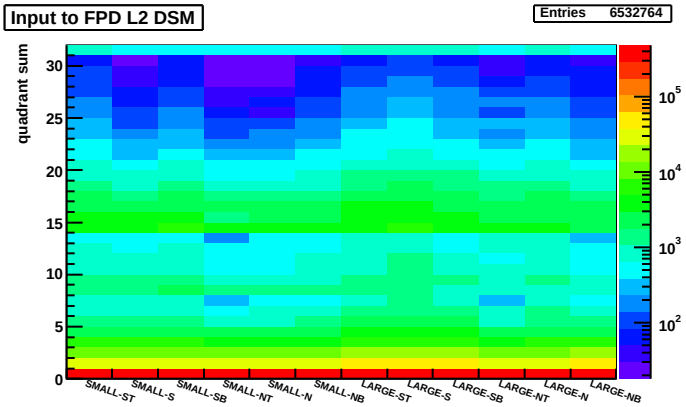

Input to FMS L1 DSM
Entries 13444
sumCD - simulated
DSM board

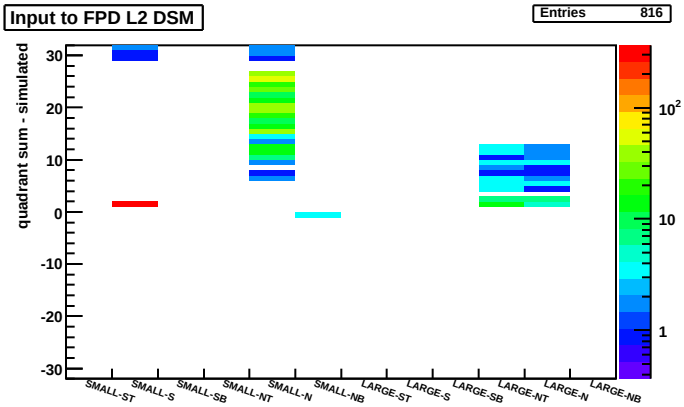

Input to FMS L1 DSM
Entries 6532764
sumA
DSM board

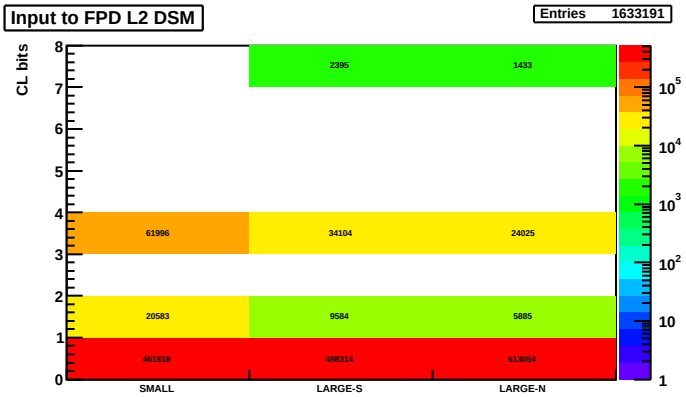

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

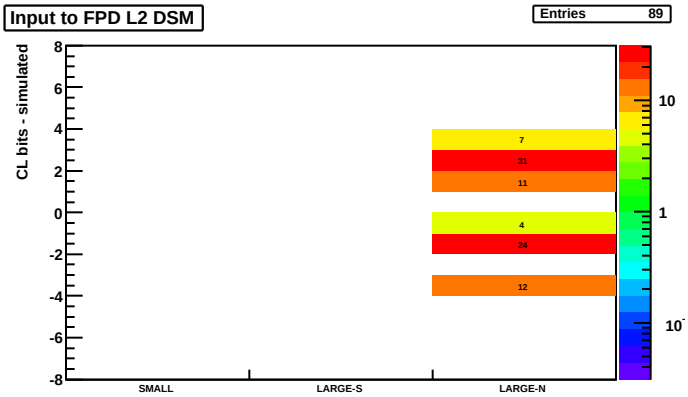

Input to FMS L1 DSM
Entries 6532764
FMS L1 HT bits
DSM board

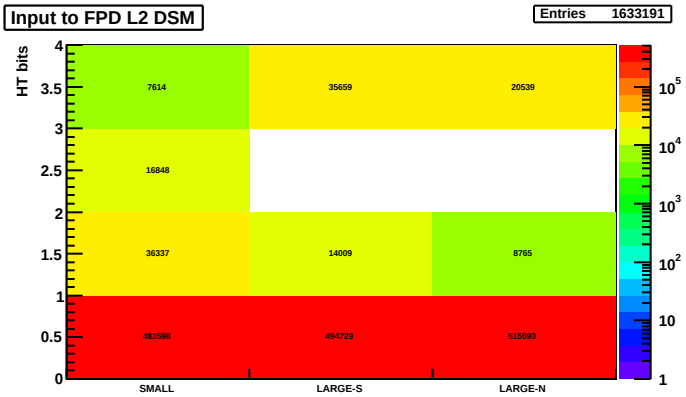

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

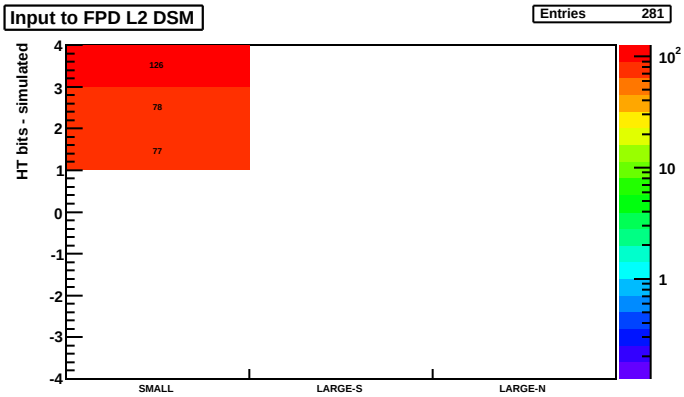

Input to FPD L2 DSM
Entries 6532764
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

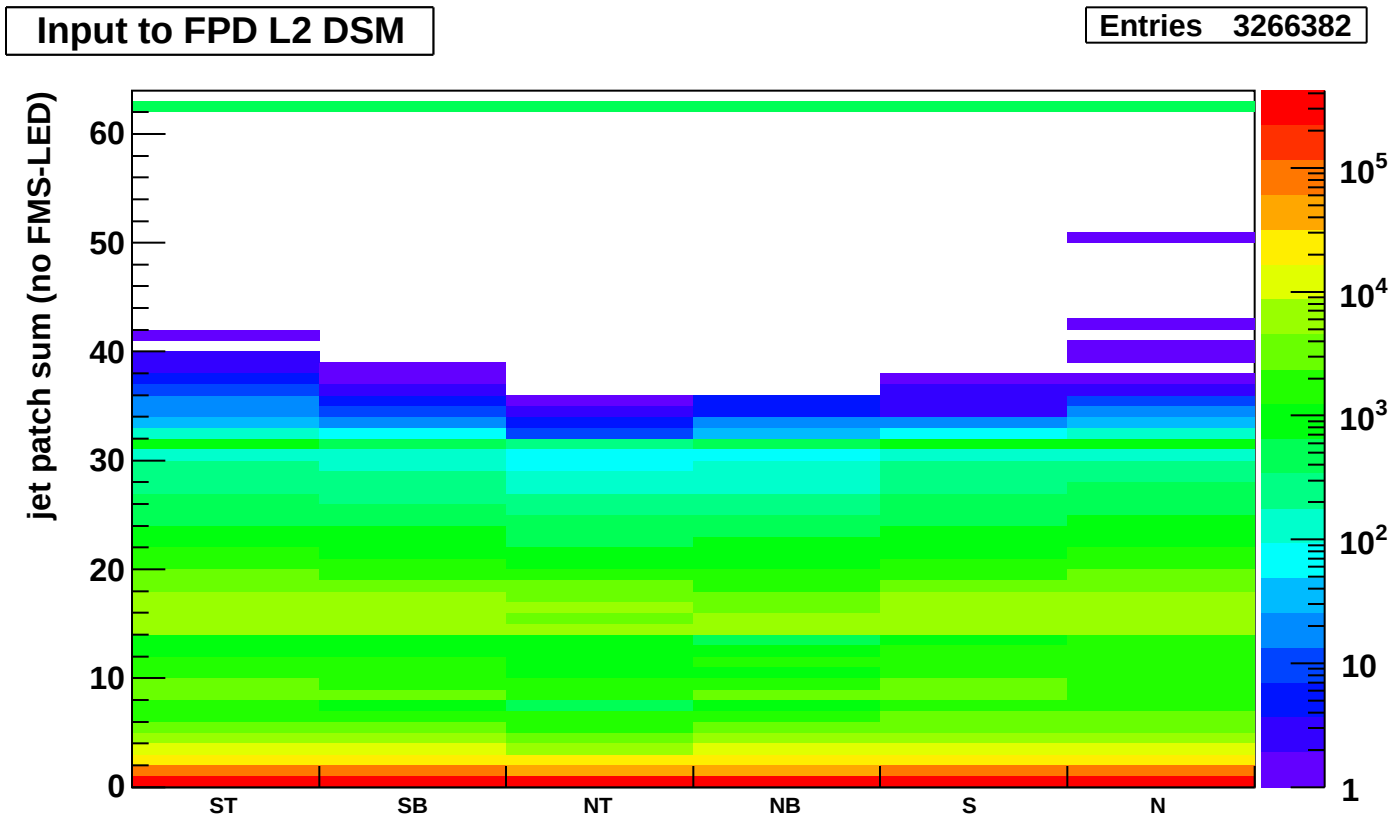

Input to FPD L2 DSM
Entries 816
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

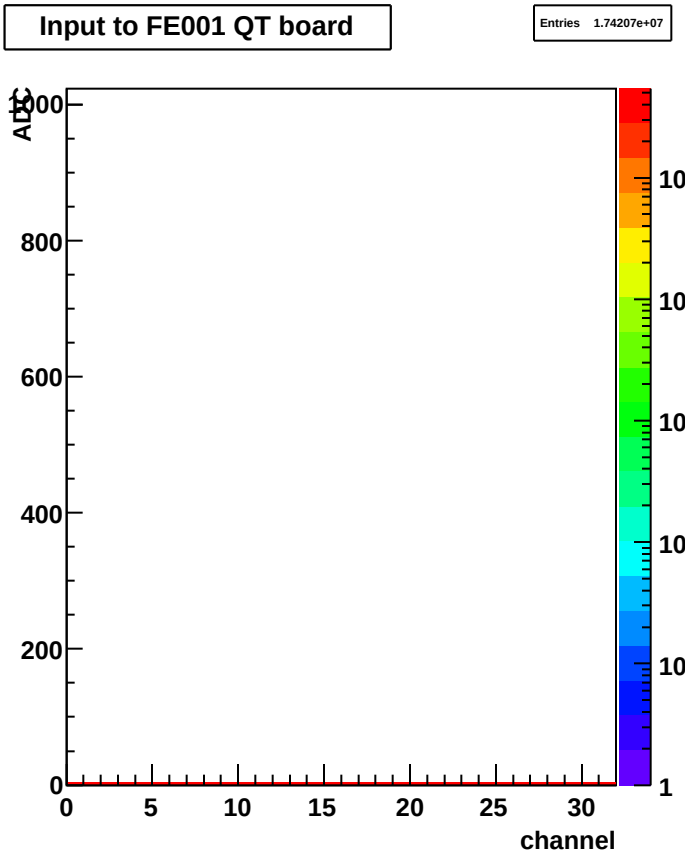

Input to FPD L2 DSM
Entries 1633191
CL bits
2395
1433
61996
34104
24025
20583
9584
5885
461818
498314
513054
SMALL
LARGE-S
LARGE-N

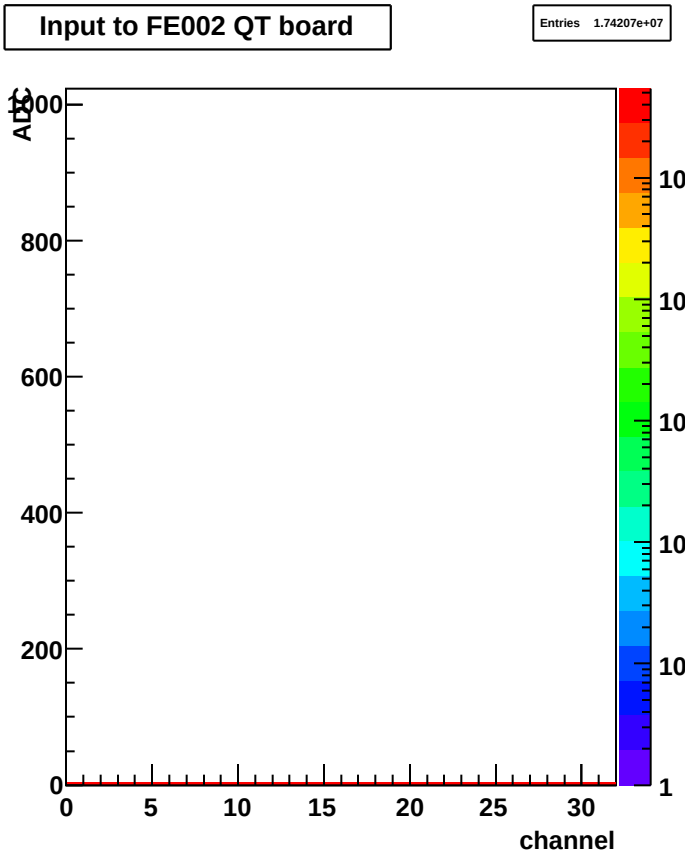

Input to FPD L2 DSM
Entries 89
CL bits - simulated
7
31
11
4
24
12
SMALL
LARGE-S
LARGE-N

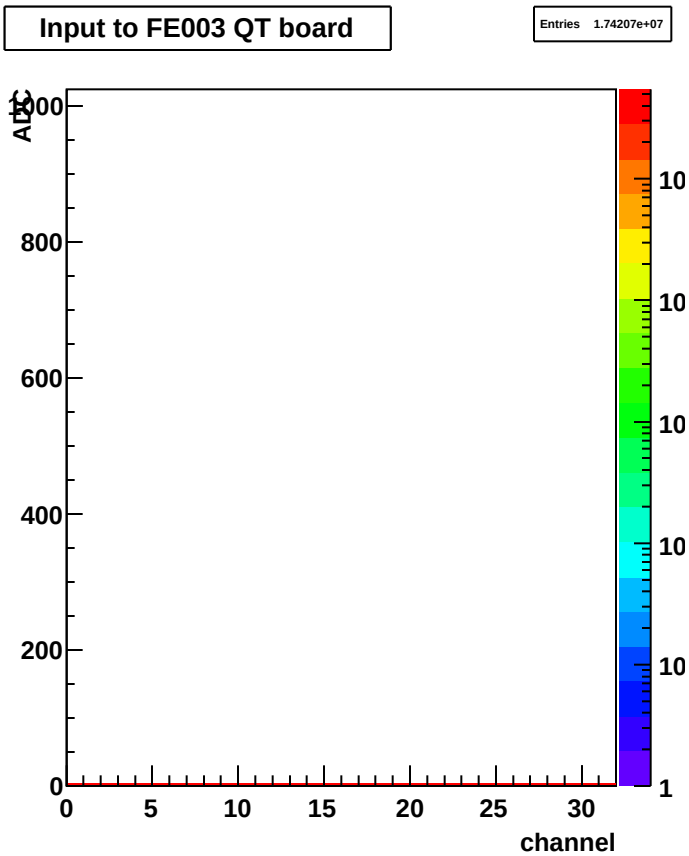

Input to FPD L2 DSM
Entries 1633191
HT bits
7614
35659
20539
16848
36337
14009
8765
483598
494729
515093
SMALL
LARGE-S
LARGE-N

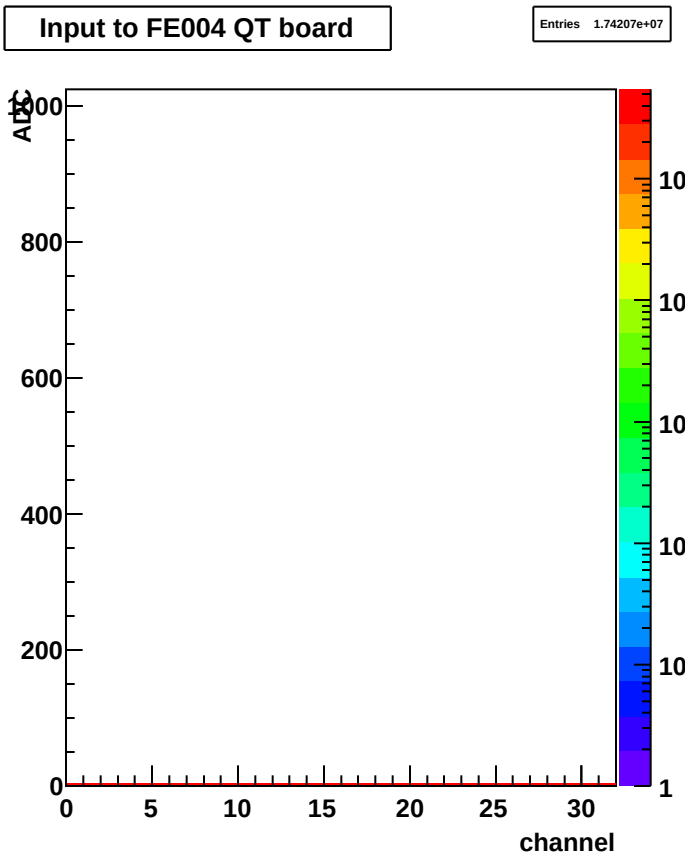

Input to FPD L2 DSM
Entries 281
HT bits - simulated
126
78
77
SMALL
LARGE-S
LARGE-N

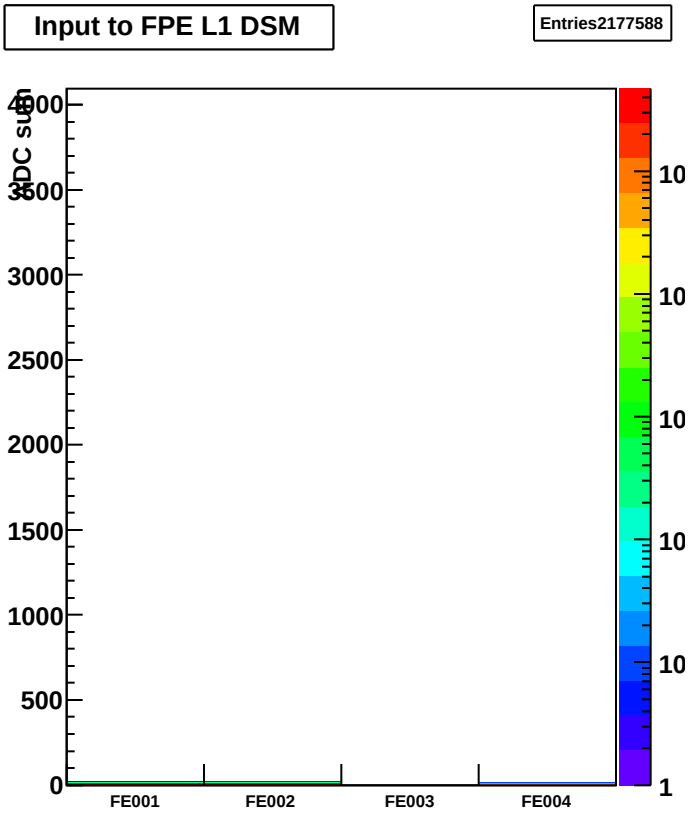

Input to FPD L2 DSM
Entries 3266382
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

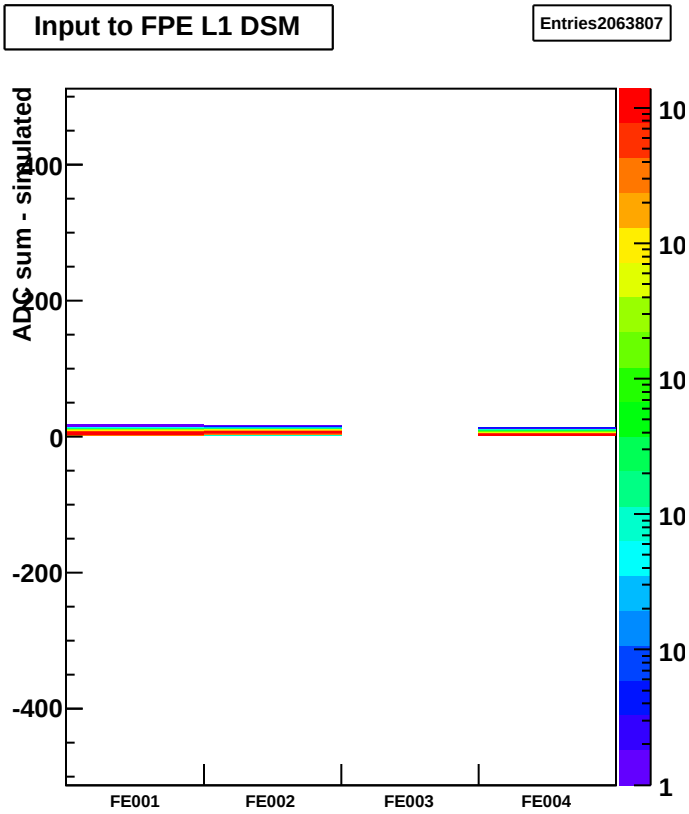

Input to FE001 QT board
Entries 1.74207e+07
ADC
channel

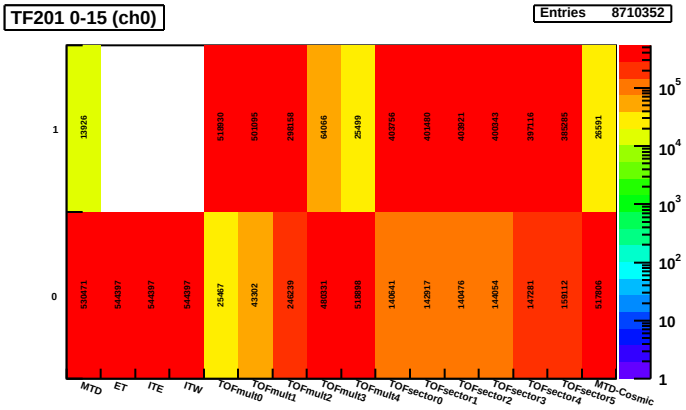

Input to FE002 QT board
Entries 1.74207e+07
ADC
channel

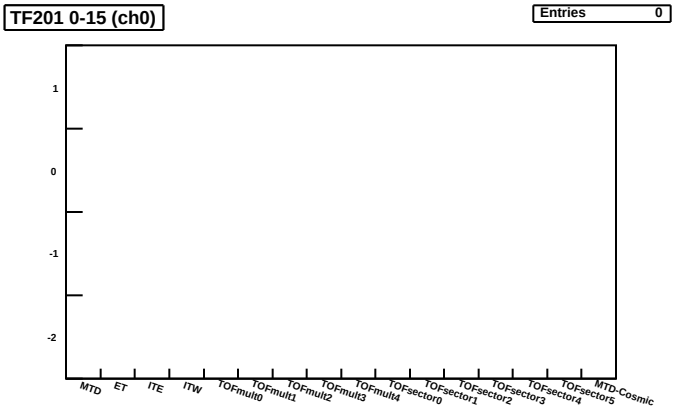

Input to FE003 QT board
Entries 1.74207e+07
ADC
channel

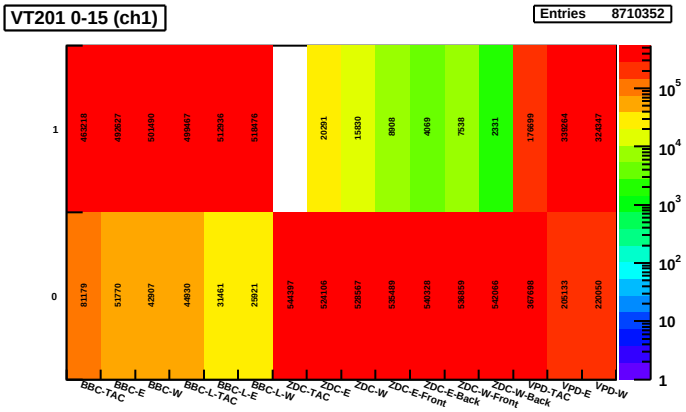

Input to FE004 QT board
Entries 1.74207e+07
ADC
channel

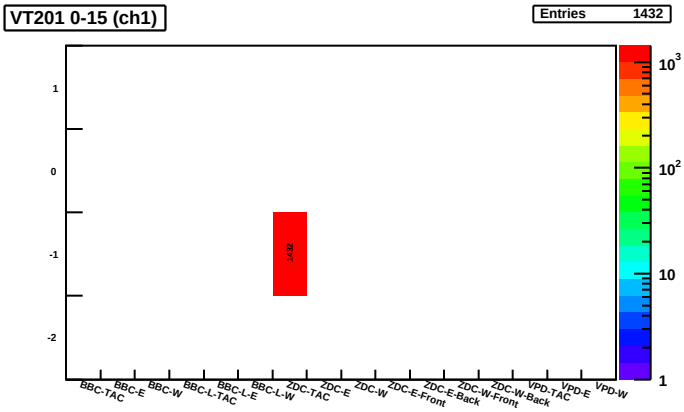

Input to FPE L1 DSM
Entries2177588
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries2063807
ADC sum - simulated
200
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 8710352
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 8710352
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 1432
1432
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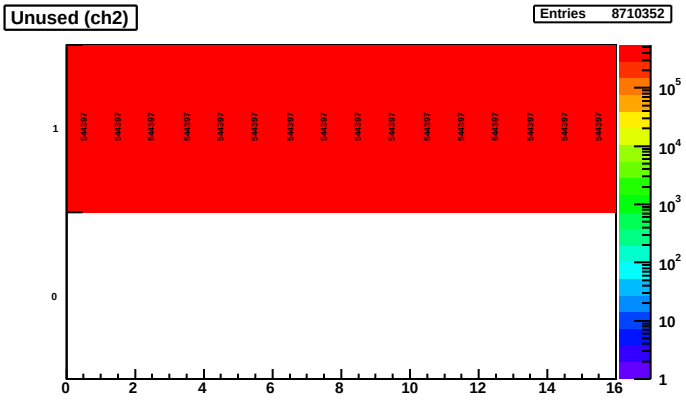
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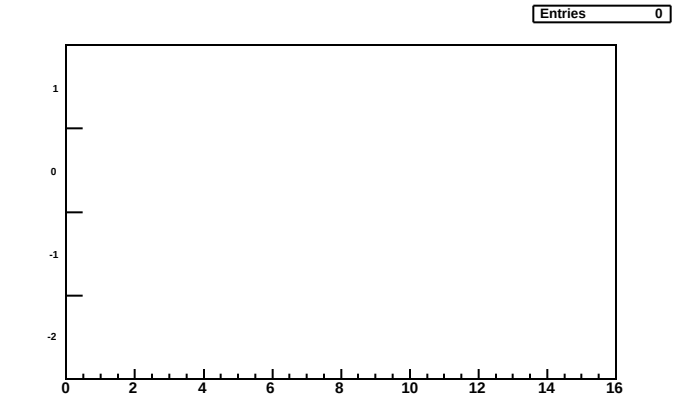
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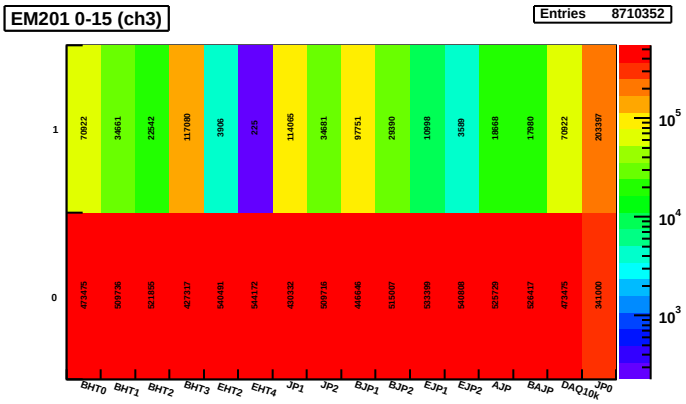
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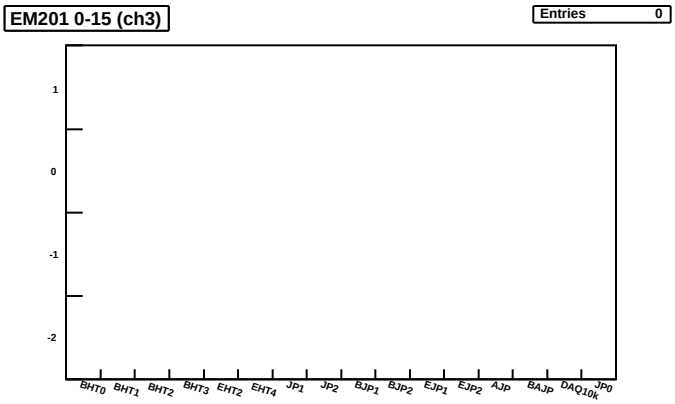
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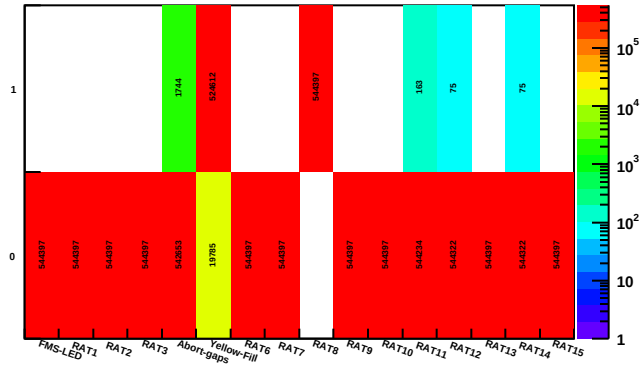
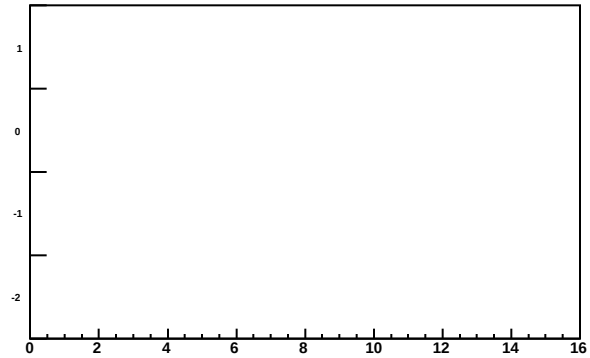
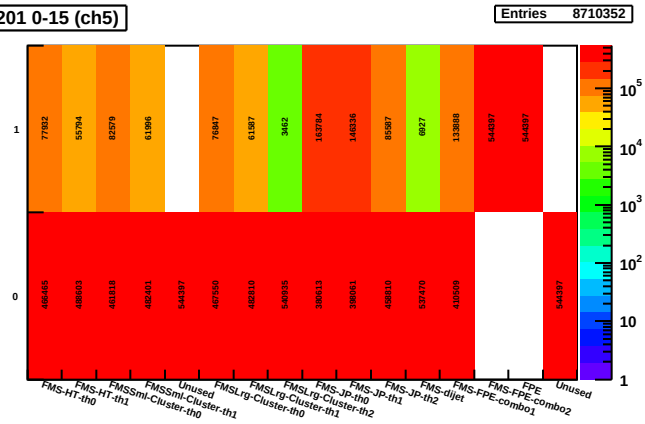
RAT board (ch4)





FP201 0-15 (ch5)



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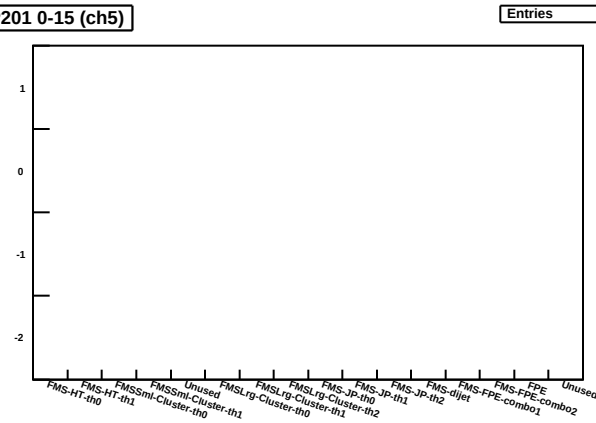
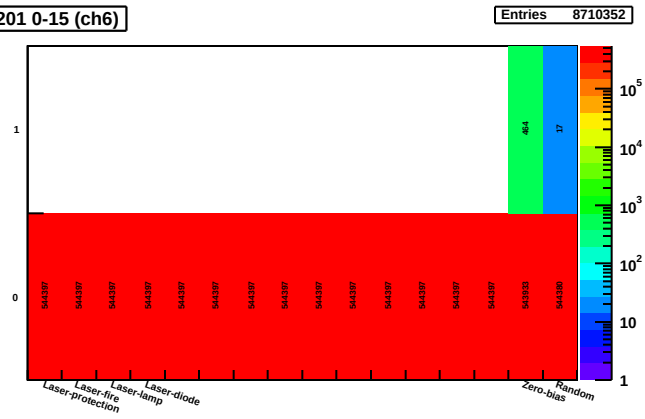
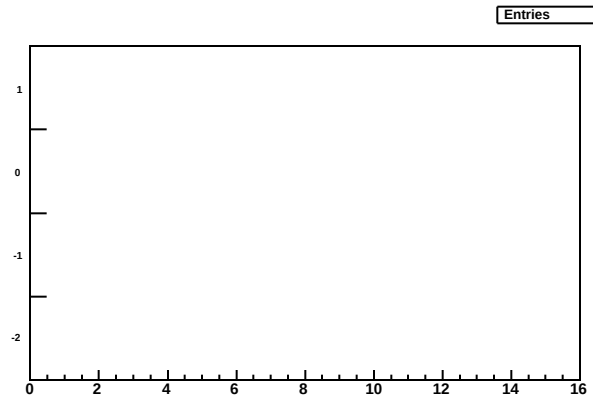
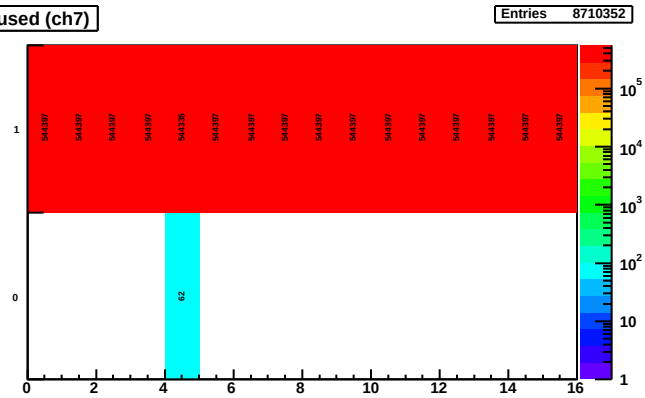
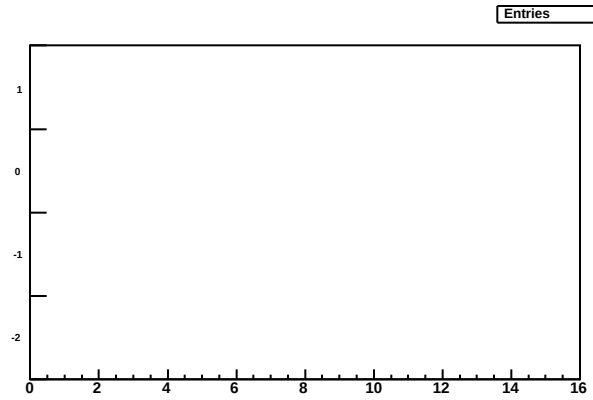


ST201 0-15 (ch6)





Unused (ch7)