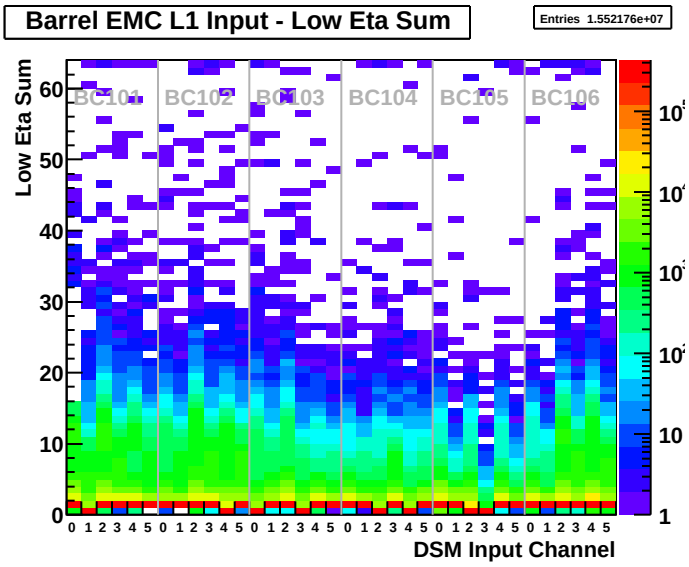
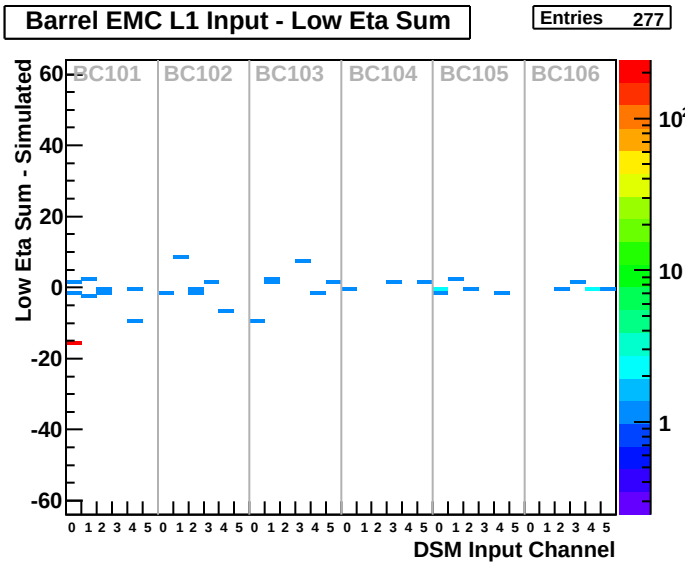
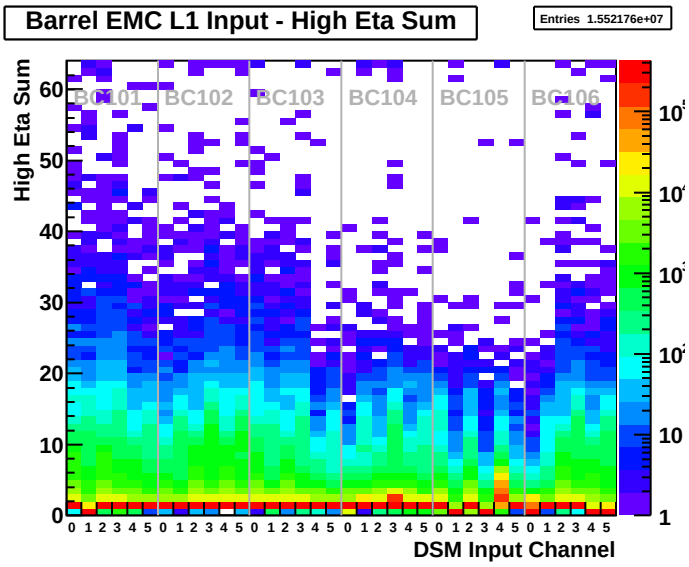
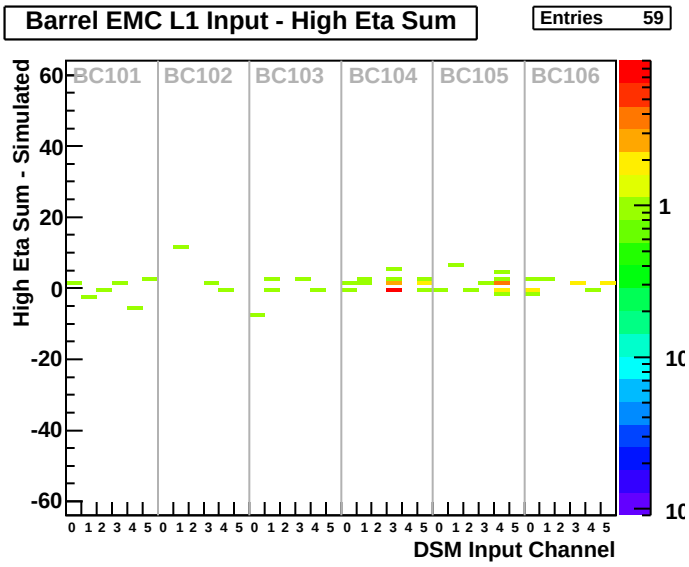
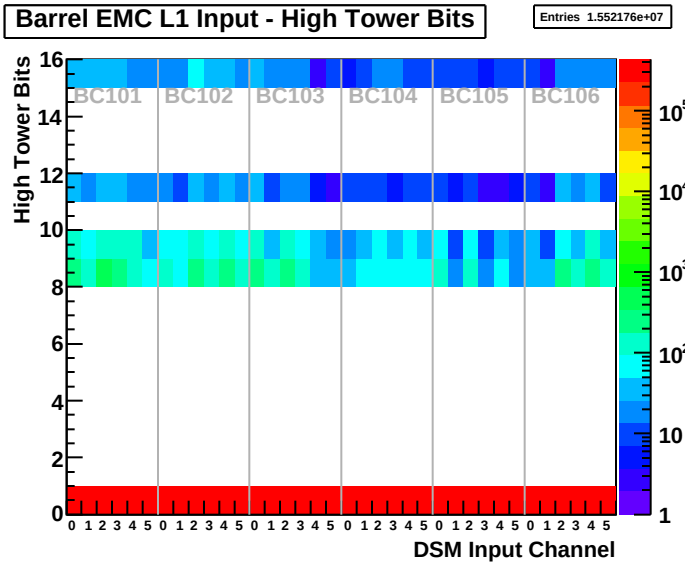
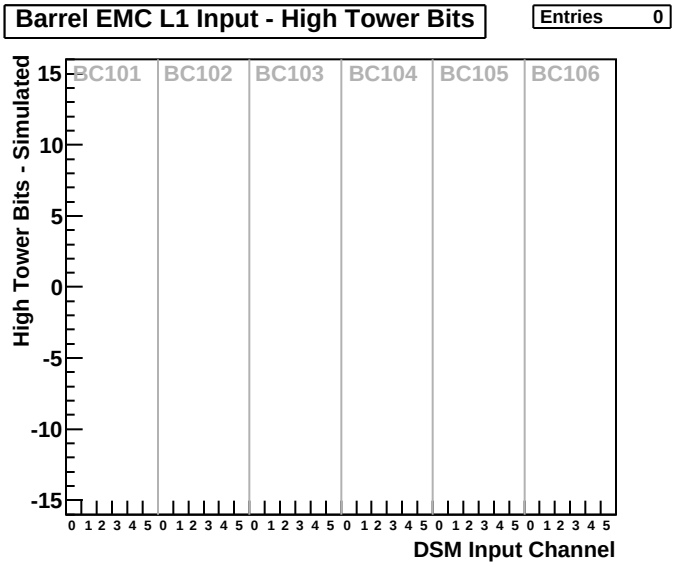

Barrel EMC L1 Input - Low Eta Sum
Entries 1.552176e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

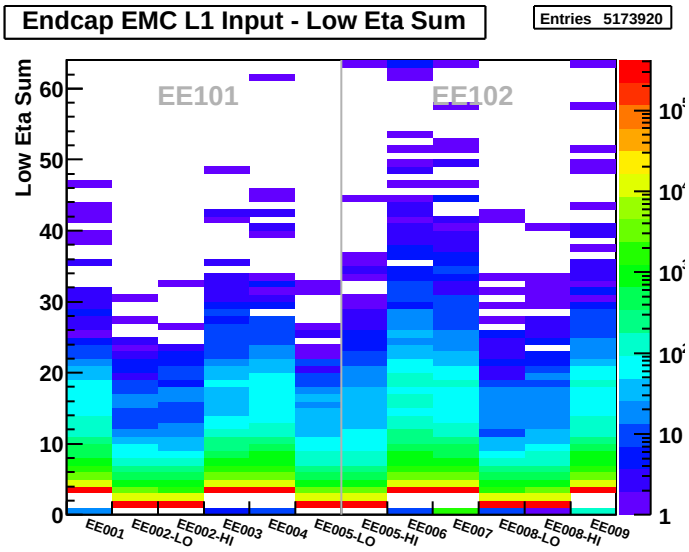

Barrel EMC L1 Input - Low Eta Sum
Entries 277
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

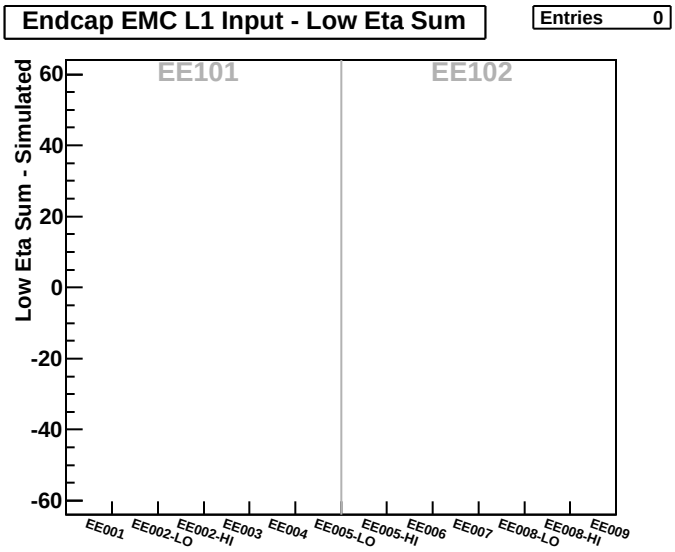

Barrel EMC L1 Input - High Eta Sum
Entries 1.552176e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

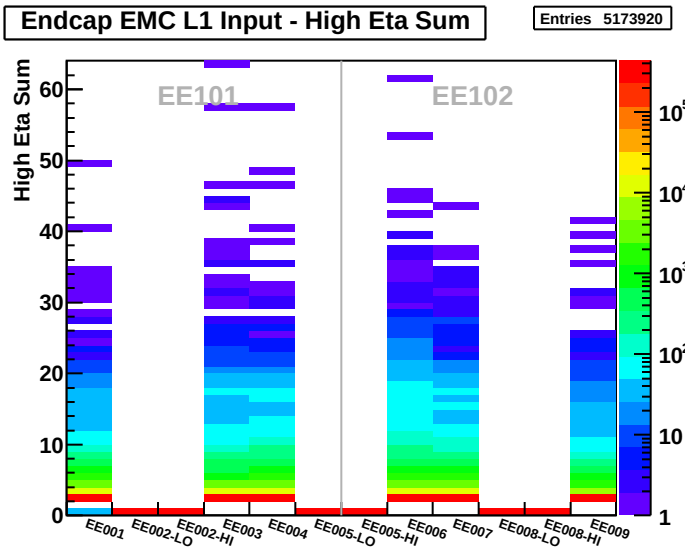

Barrel EMC L1 Input - High Eta Sum
Entries 59
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

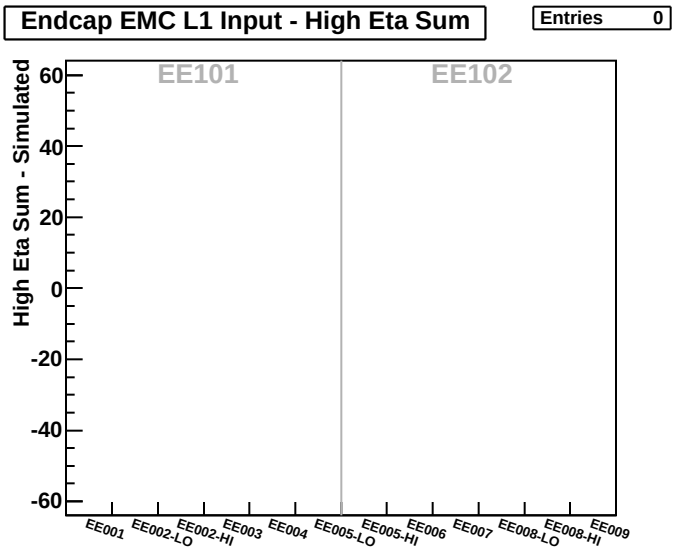

Barrel EMC L1 Input - High Tower Bits
Entries 1.552176e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

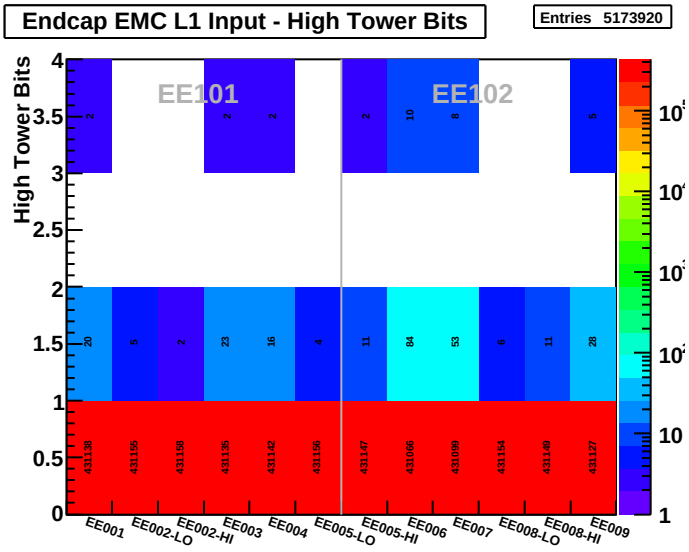

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

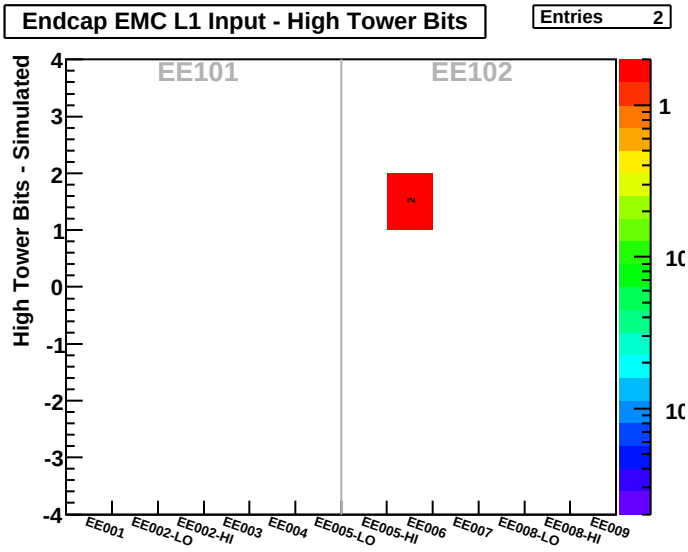

Endcap EMC L1 Input - Low Eta Sum
Entries 5173920
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

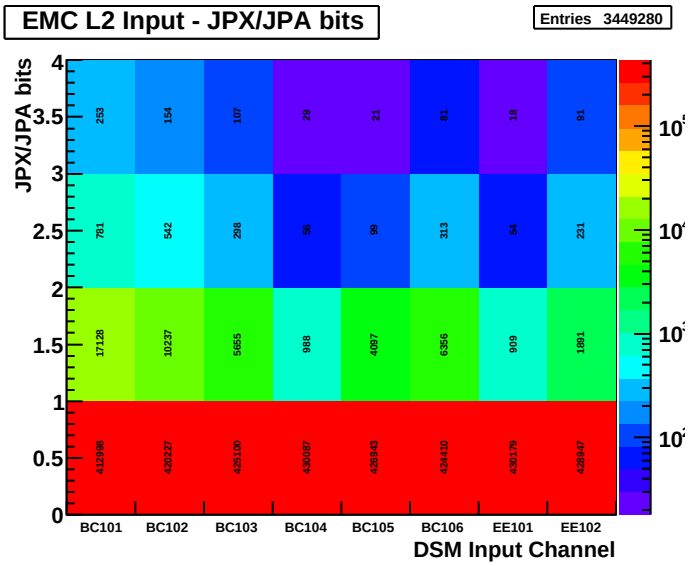

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

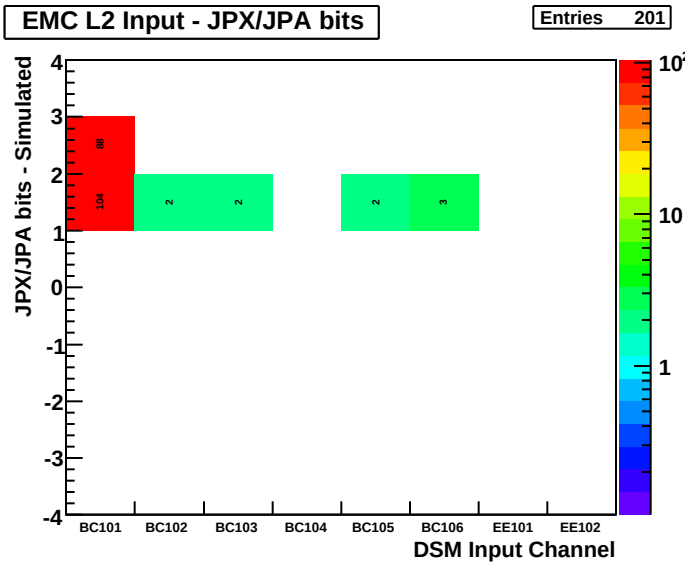

Endcap EMC L1 Input - High Eta Sum
Entries 5173920
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

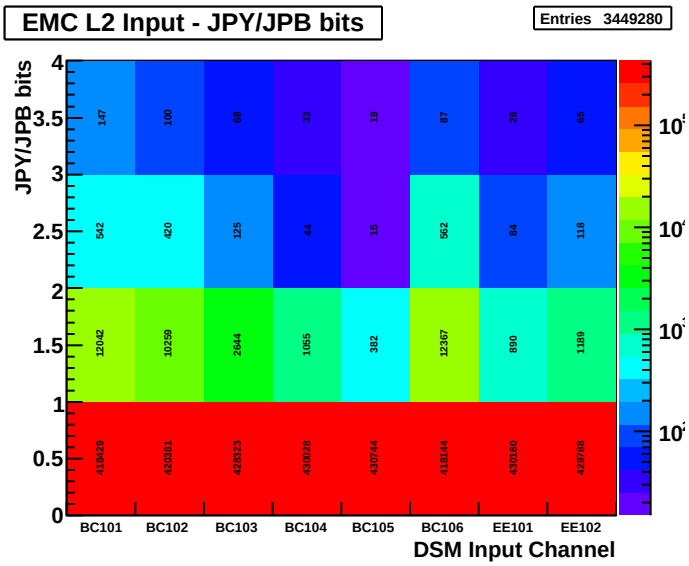

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

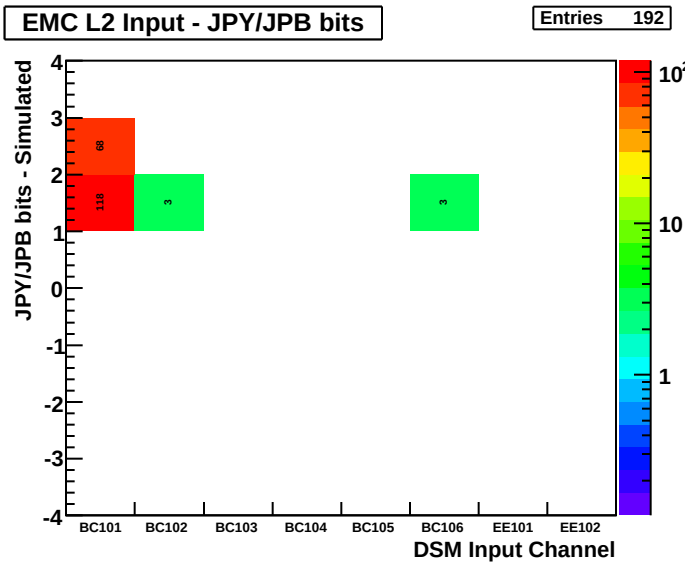

Endcap EMC L1 Input - High Tower Bits
Entries 5173920
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

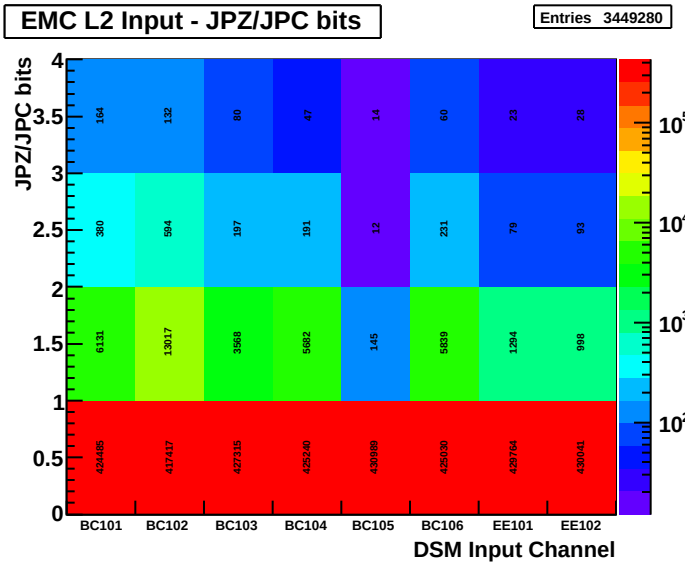

Endcap EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

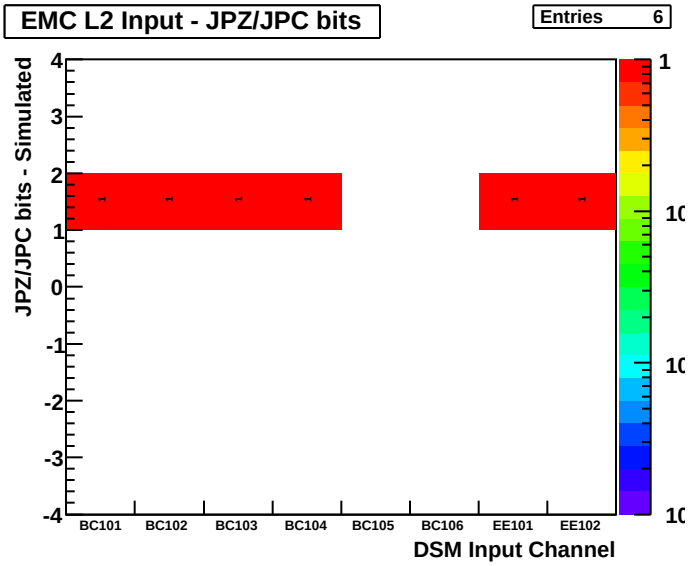

EMC L2 Input - JPX/JPA bits
Entries 3449280
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
253 154 107 29 21 81 18 91
781 542 298 56 99 313 54 231
17128 10237 5655 988 4097 6356 909 1891
412998 420227 425100 430087 426943 424410 430179 428947

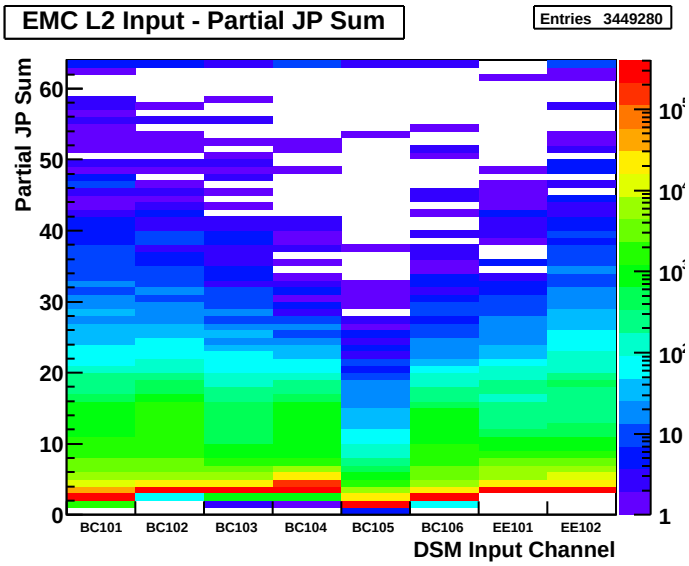

EMC L2 Input - JPX/JPA bits
Entries 201
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
88
104 2 2 2 3

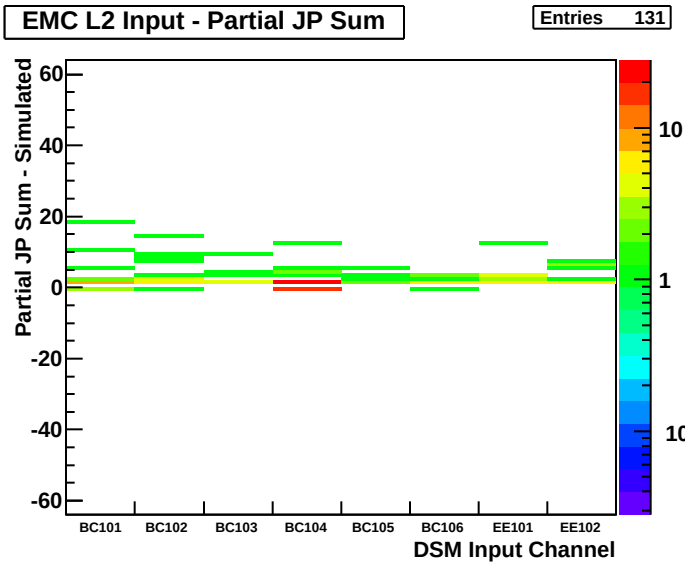

EMC L2 Input - JPY/JPB bits
Entries 3449280
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
147 100 68 33 19 87 26 65
542 420 125 44 15 562 84 118
12042 10259 2644 1055 382 12367 890 1189
418429 420381 428323 430028 430744 418144 430160 429788

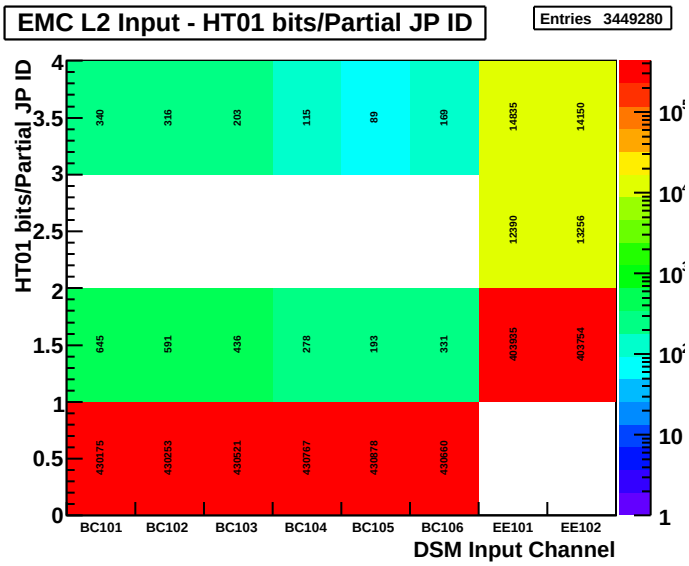

EMC L2 Input - JPY/JPB bits
Entries 192
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
68
118 3 3

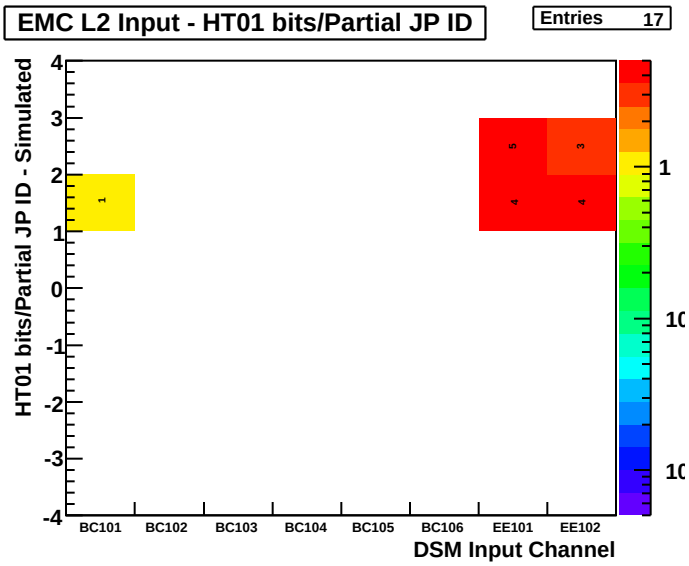

EMC L2 Input - JPZ/JPC bits
Entries 3449280
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
164 132 80 47 14 60 23 28
380 594 197 191 12 231 79 93
6131 13017 3568 5682 145 5639 1294 998
424485 417417 427315 425240 430989 425030 429764 430041

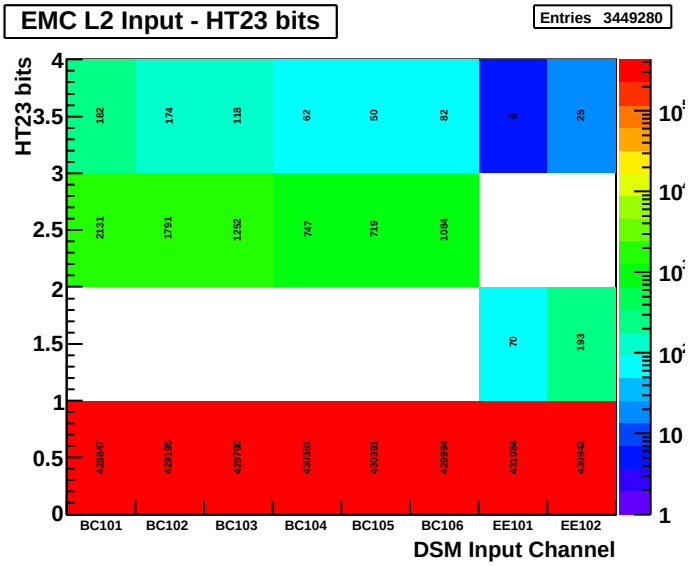

EMC L2 Input - JPZ/JPC bits
Entries 6
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1 1 1

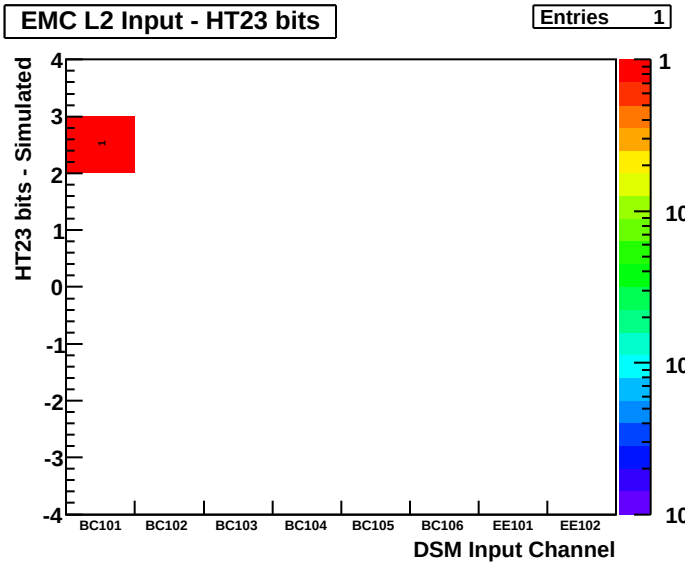

EMC L2 Input - Partial JP Sum
Entries 3449280
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

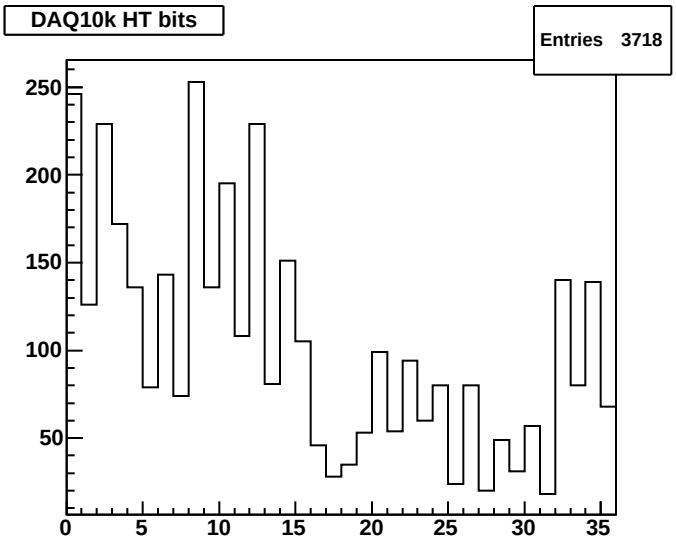

EMC L2 Input - Partial JP Sum
Entries 131
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

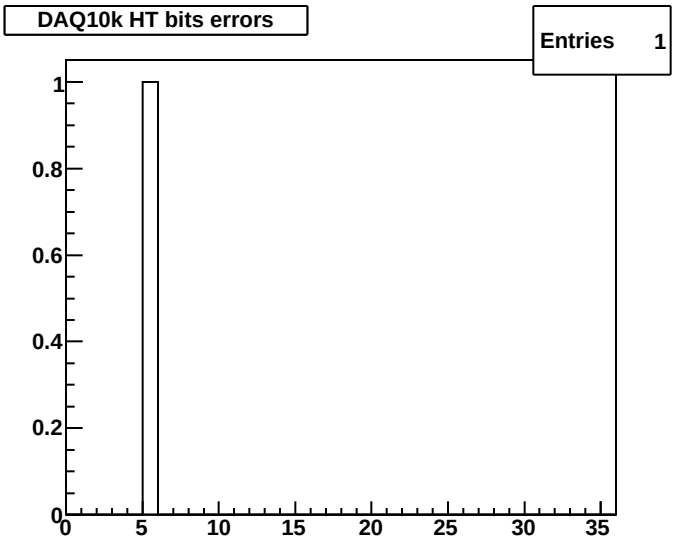

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3449280
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

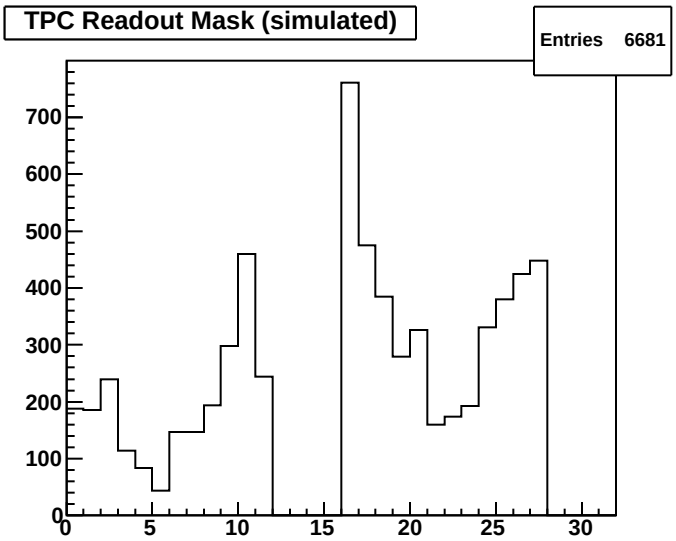

EMC L2 Input - HT01 bits/Partial JP ID
Entries 17
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

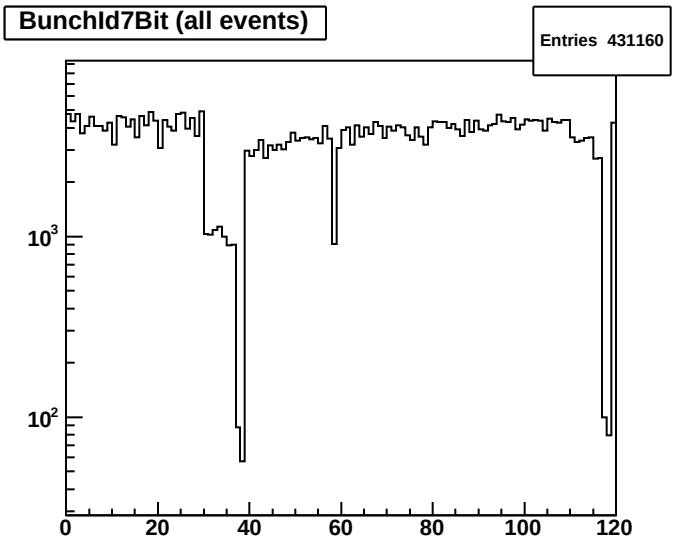

EMC L2 Input - HT23 bits
Entries 3449280
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

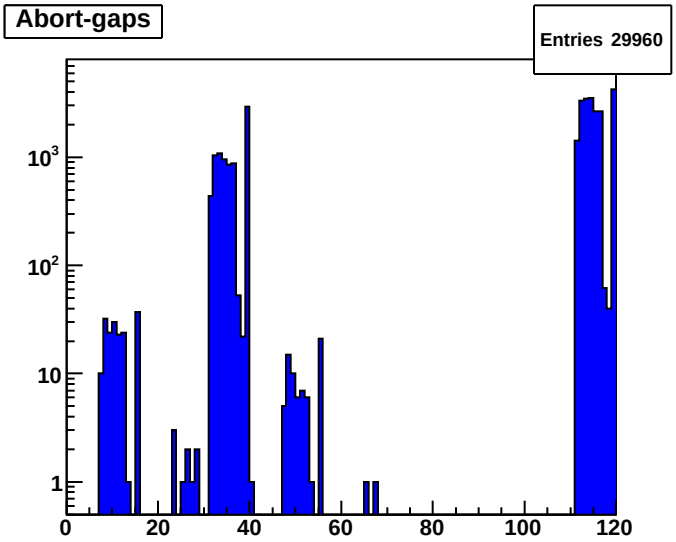

EMC L2 Input - HT23 bits
Entries 1
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

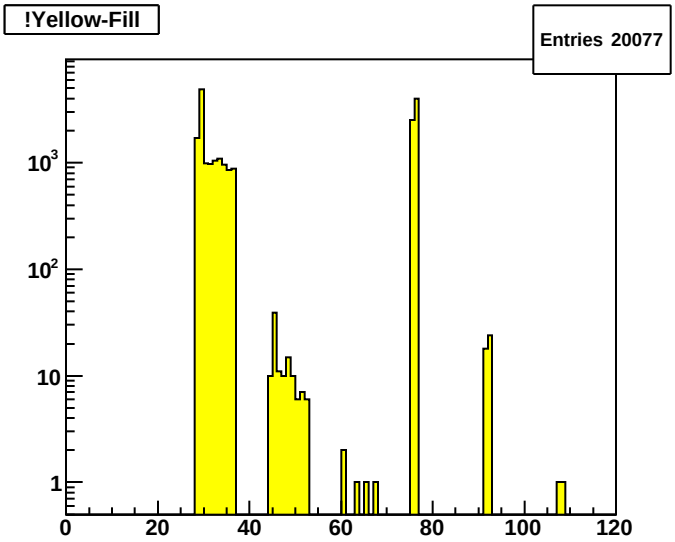

DAQ10k HT bits
Entries 3718

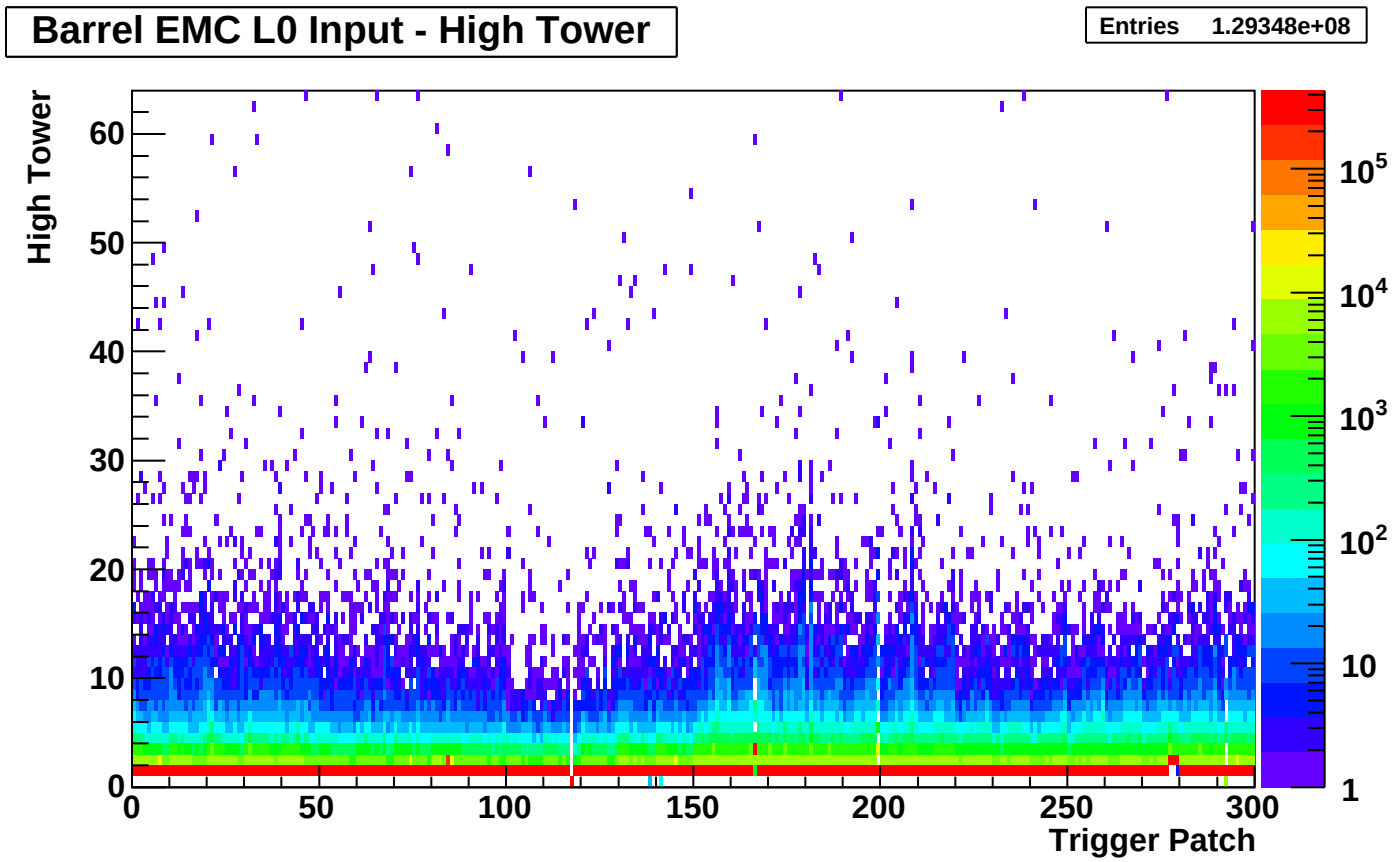

DAQ10k HT bits errors
Entries 1

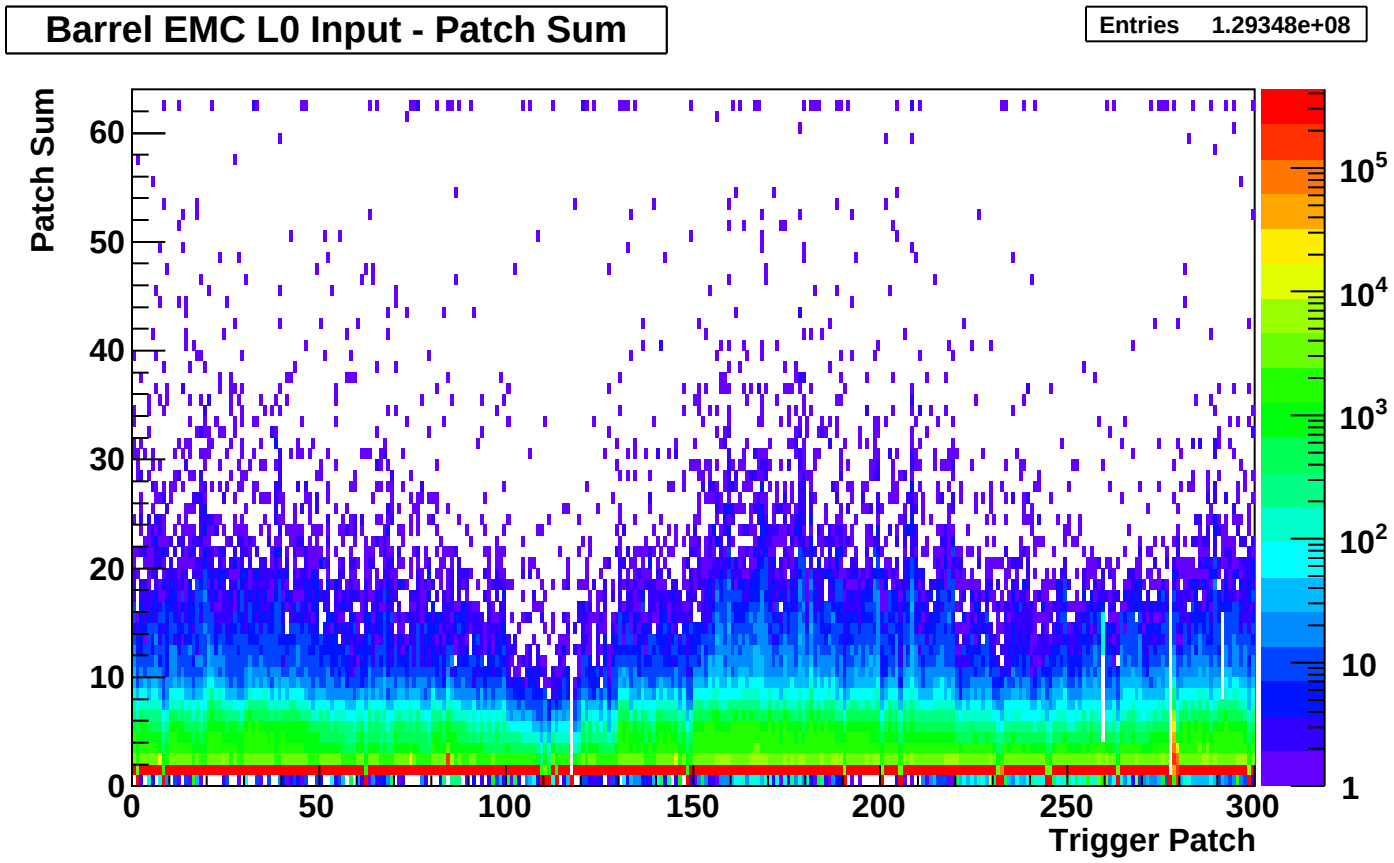

TPC Readout Mask (simulated)
Entries 6681

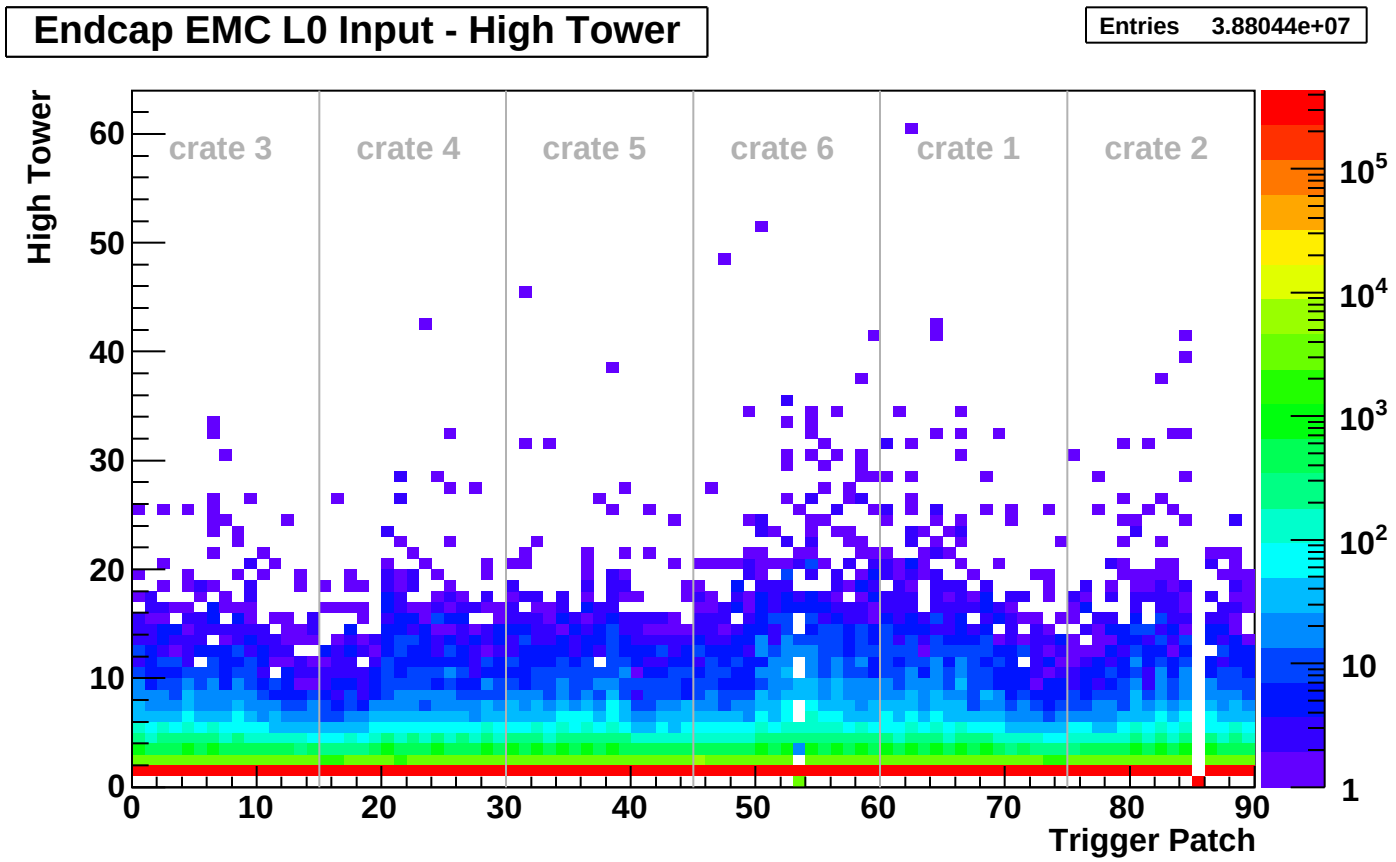

BunchId7Bit (all events)
Entries 431160

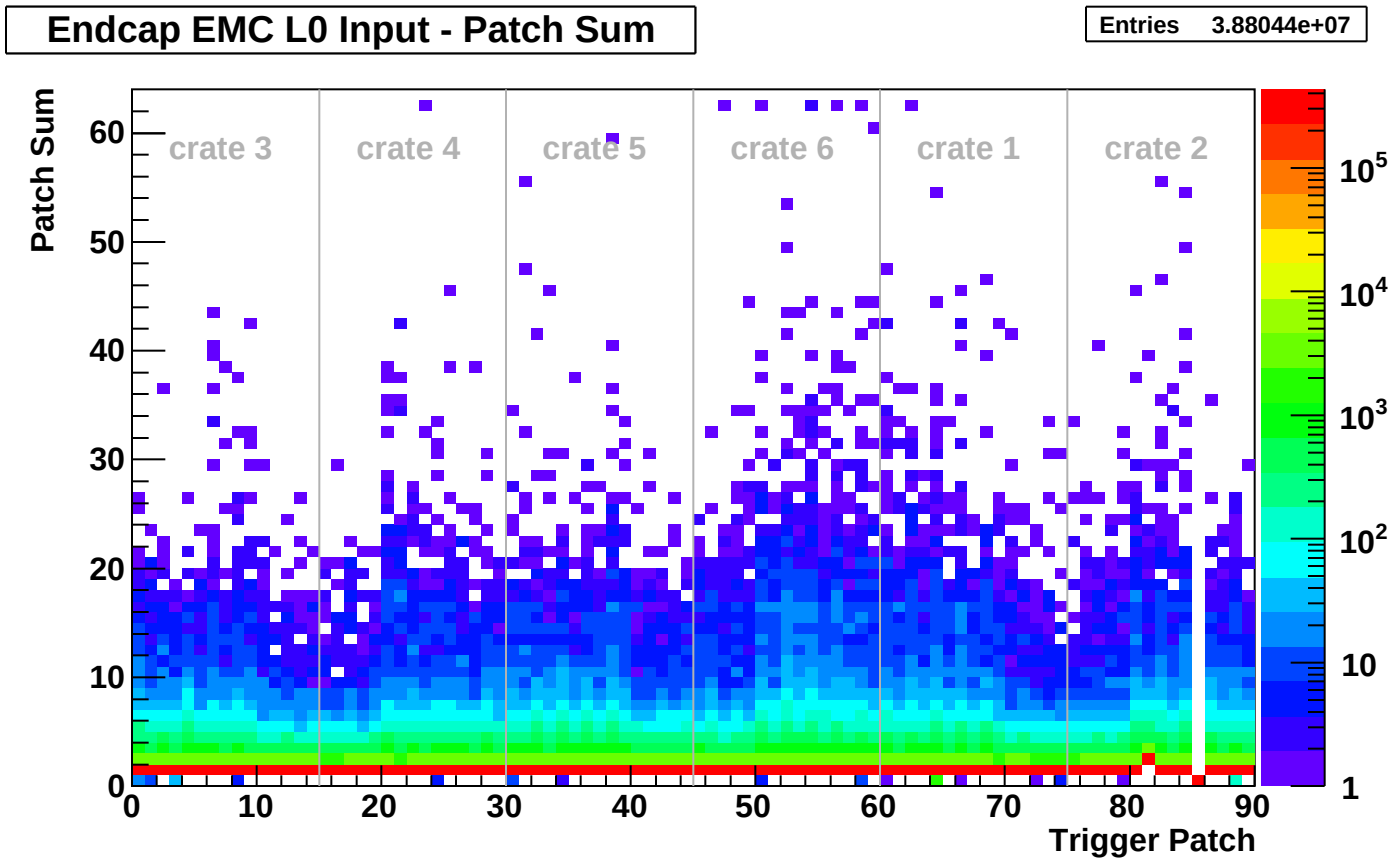

Abort-gaps
Entries 29960

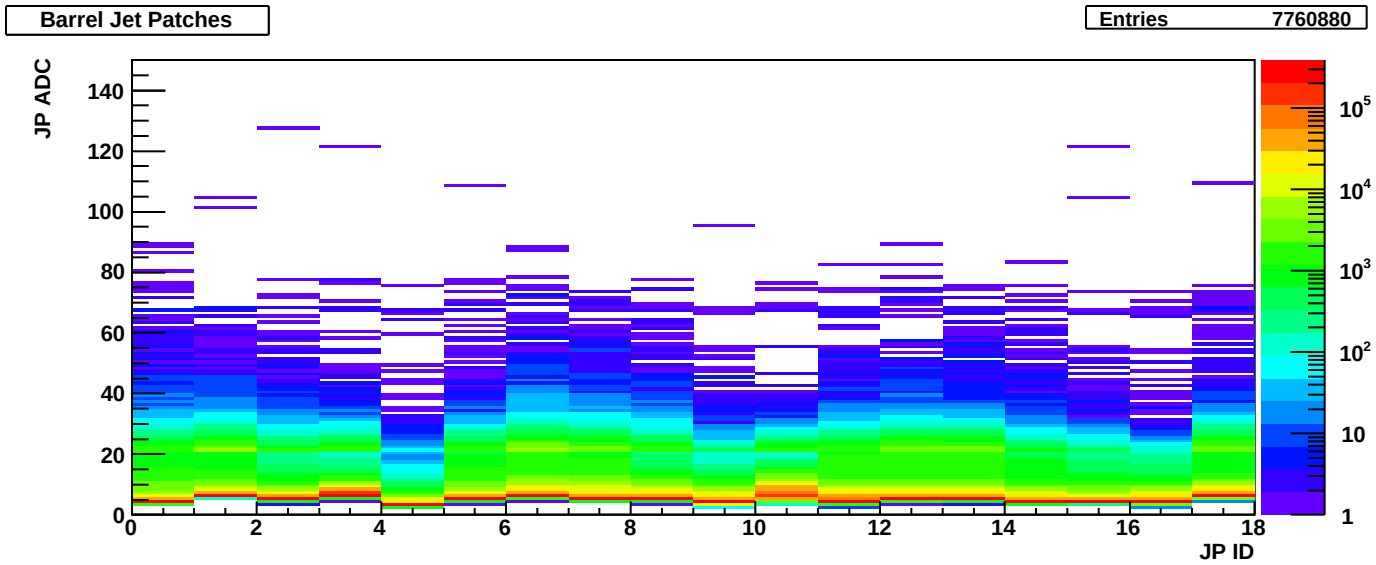

!Yellow-Fill
Entries 20077

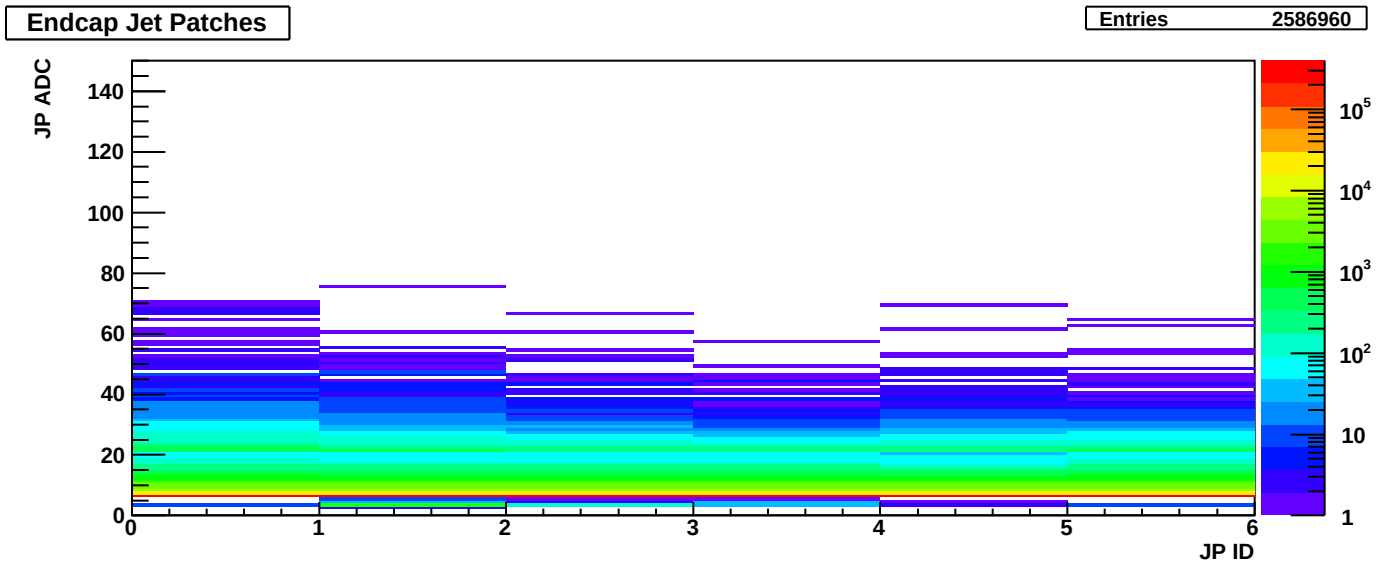

Barrel EMC L0 Input - High Tower
Entries 1.29348e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

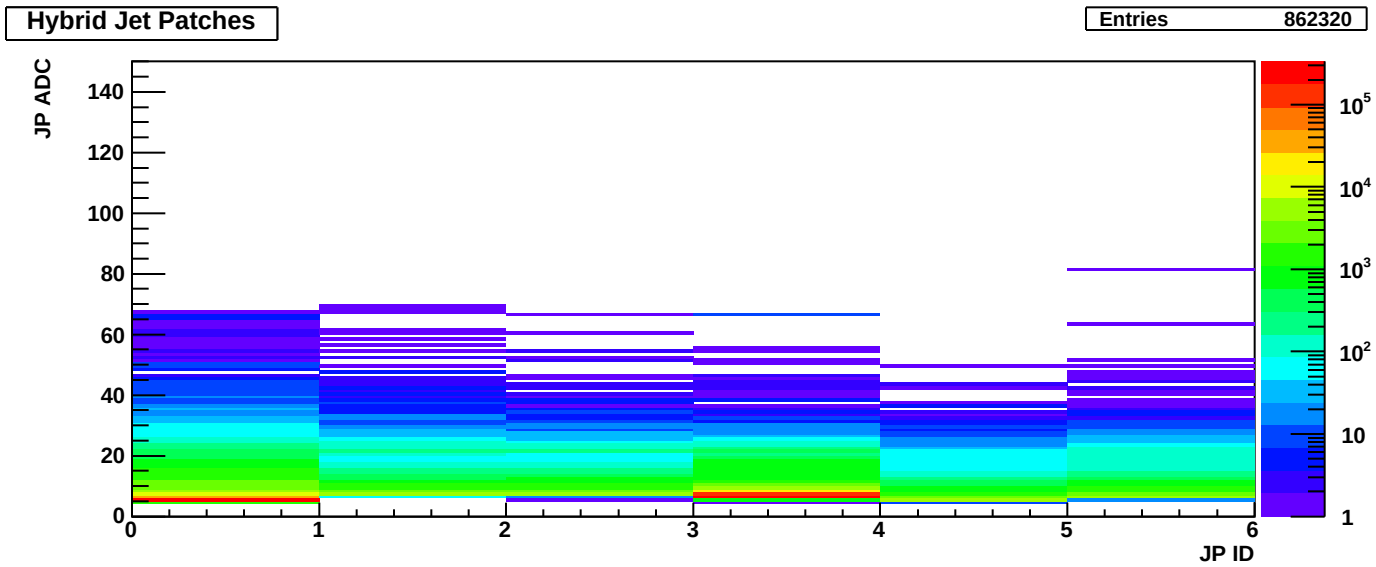

Barrel EMC L0 Input - Patch Sum
Entries 1.29348e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

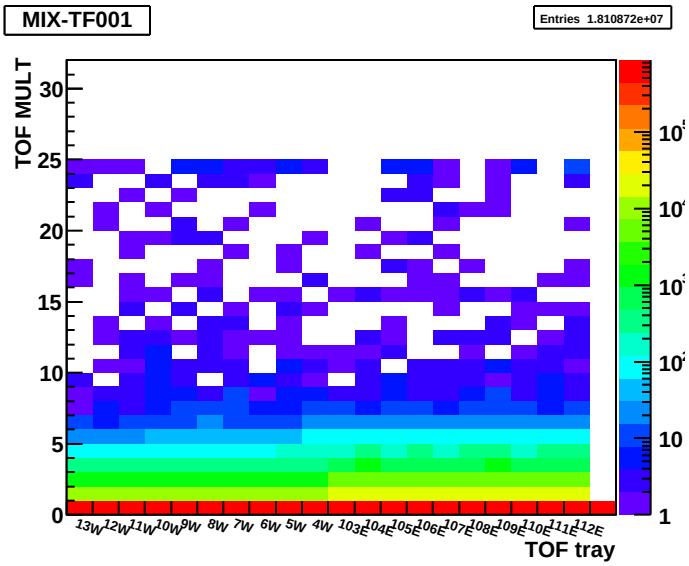

Endcap EMC L0 Input - High Tower
Entries 3.88044e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

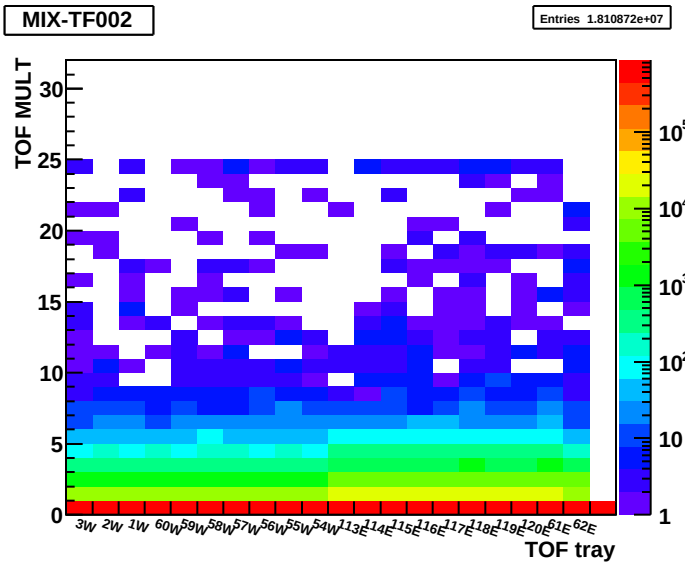

Endcap EMC L0 Input - Patch Sum
Entries 3.88044e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

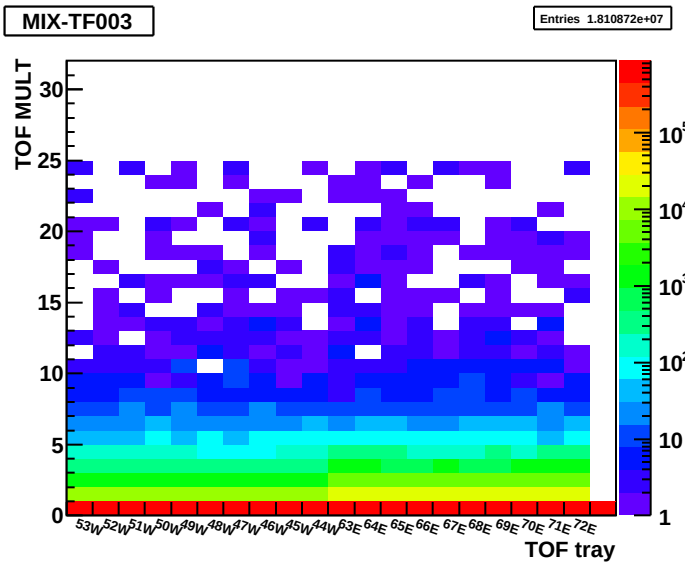

Barrel Jet Patches
Entries 7760880
JP ADC
JP ID

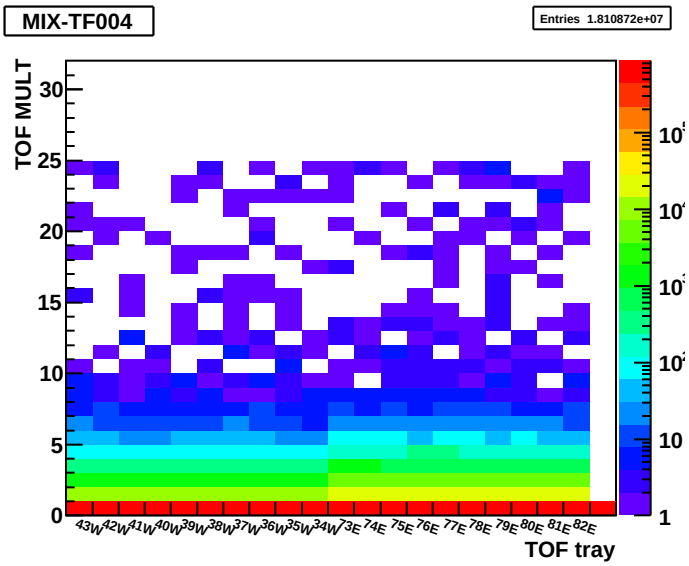

Endcap Jet Patches
Entries 2586960
JP ADC
JP ID

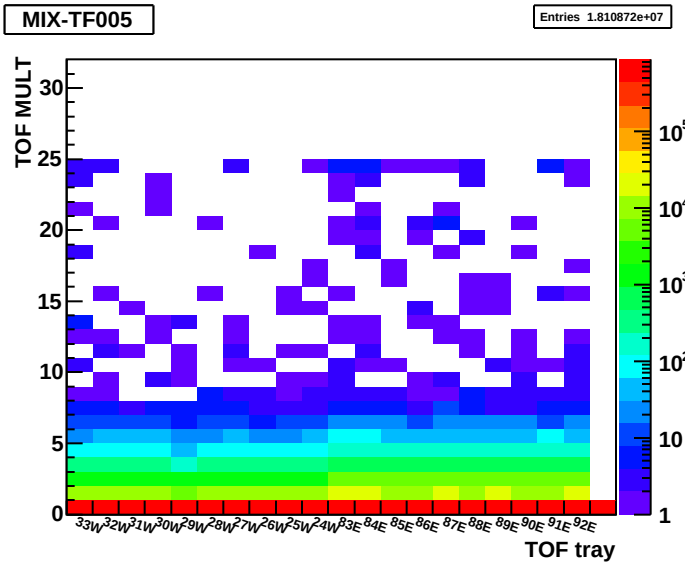

Hybrid Jet Patches
Entries 862320
JP ADC
JP ID

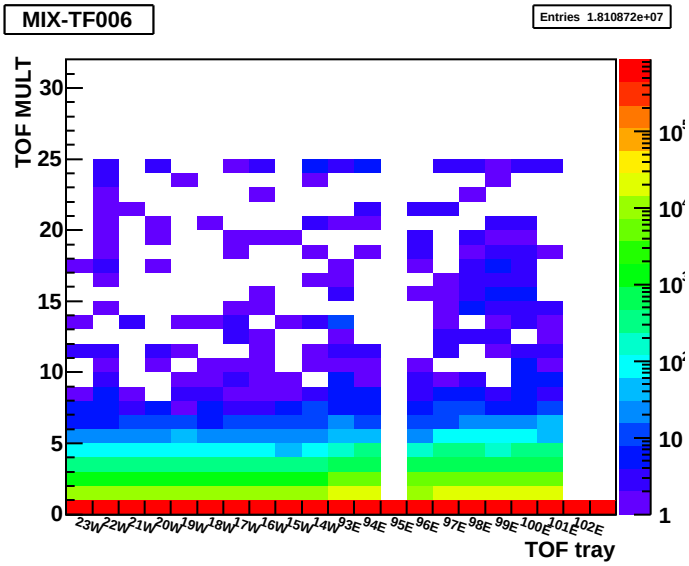

MIX-TF001
Entries 1.810872e+07
TOF MULT
TOF tray

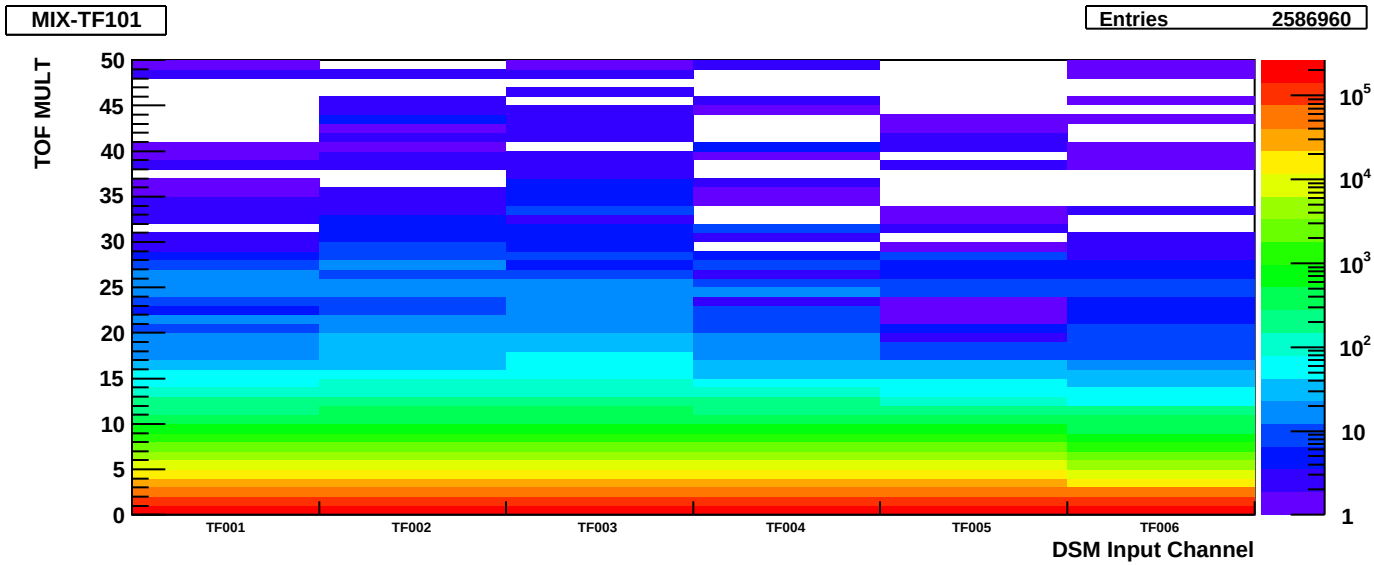

MIX-TF002
Entries 1.810872e+07
TOF MULT
TOF tray

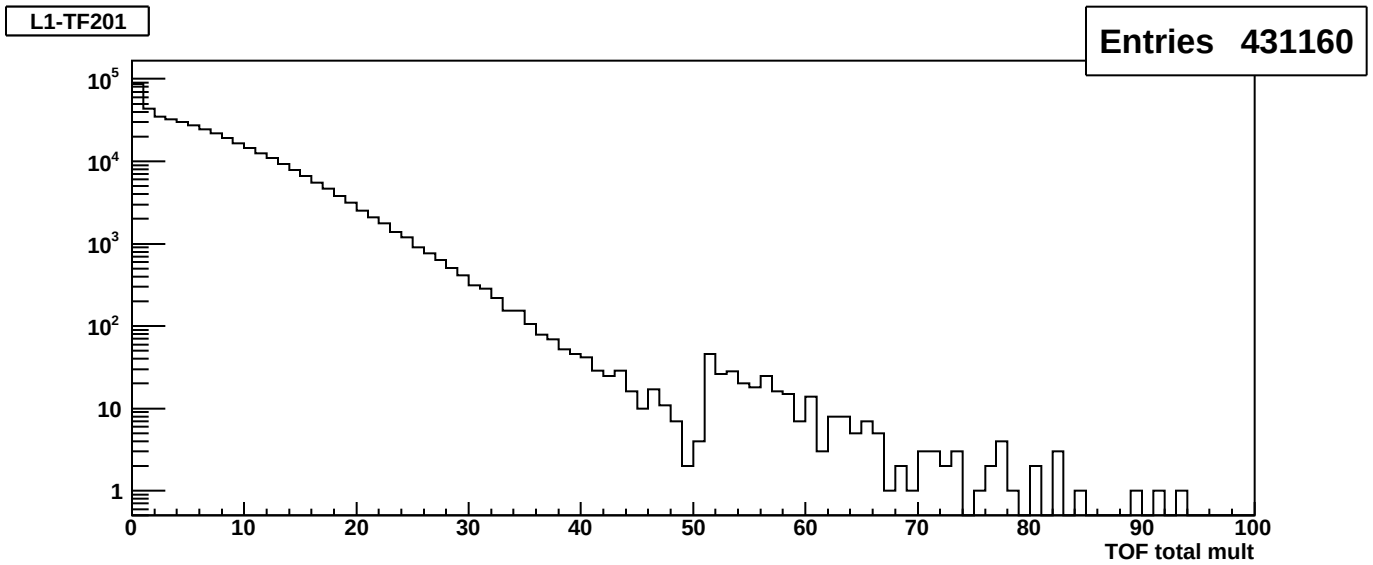

MIX-TF003
Entries 1.810872e+07
TOF MULT
TOF tray

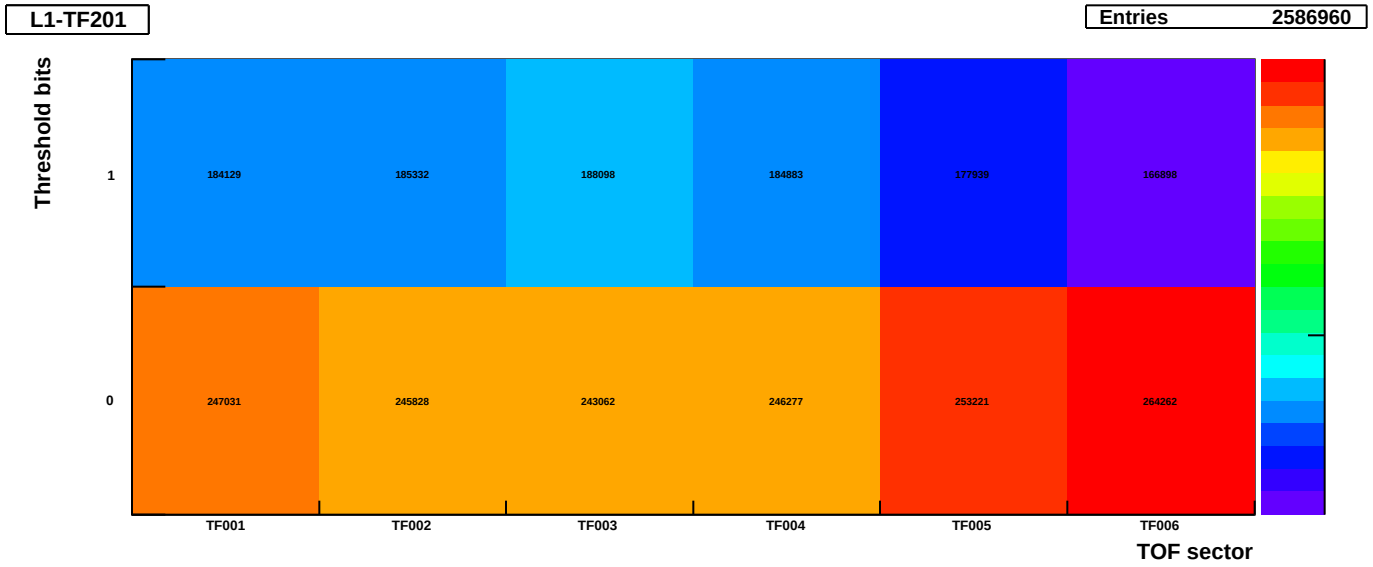

MIX-TF004
Entries 1.810872e+07
TOF MULT
TOF tray

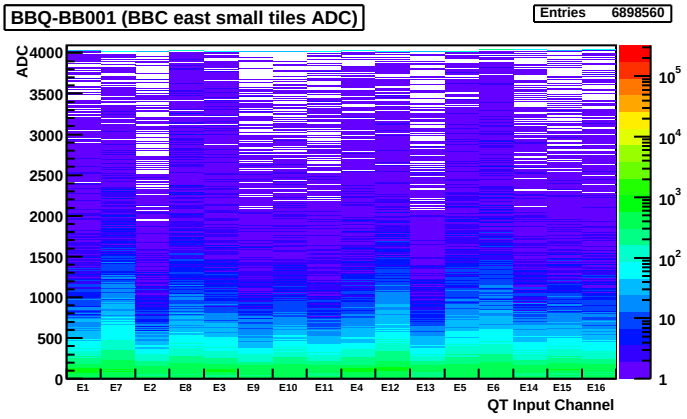

MIX-TF005
Entries 1.810872e+07
TOF MULT
TOF tray

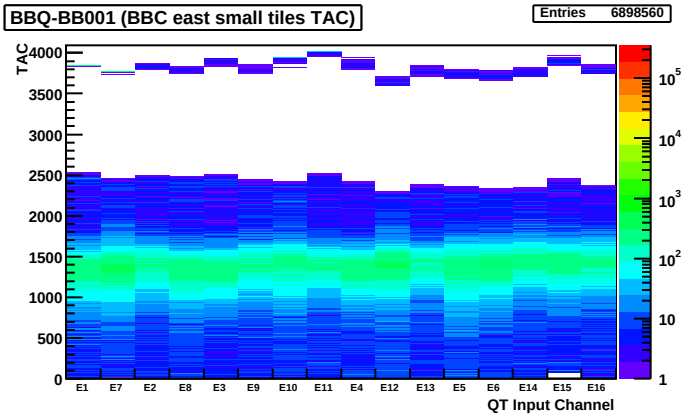

MIX-TF006
Entries 1.810872e+07
TOF MULT
TOF tray

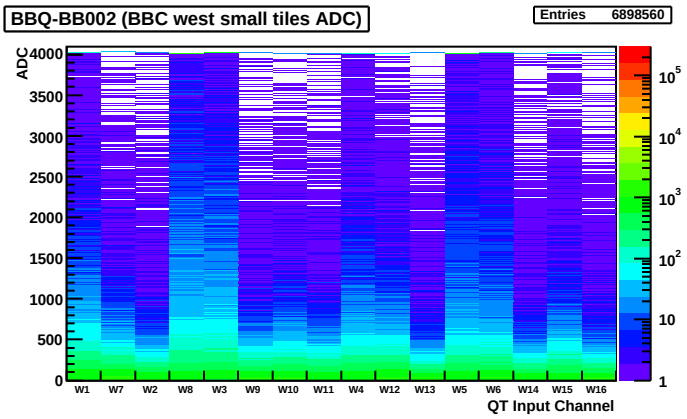

MIX-TF101
Entries 2586960
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

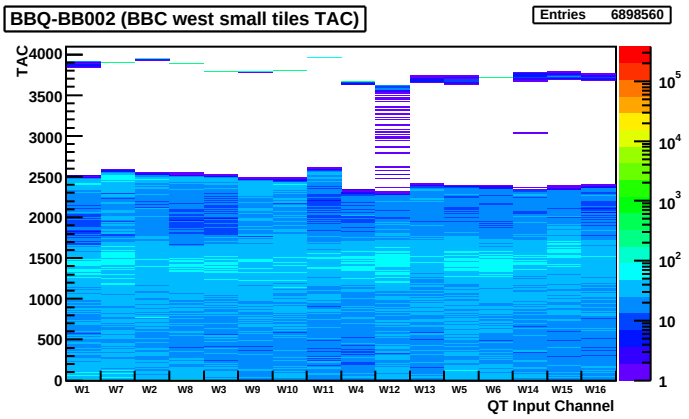

L1-TF201
Entries 431160
TOF total mult

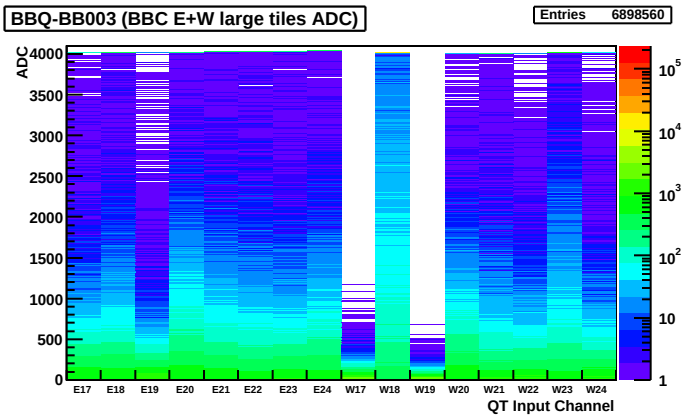

L1-TF201
Entries 2586960
Threshold bits
184129
185332
188098
184883
177939
166898
247031
245828
243062
246277
253221
264262
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

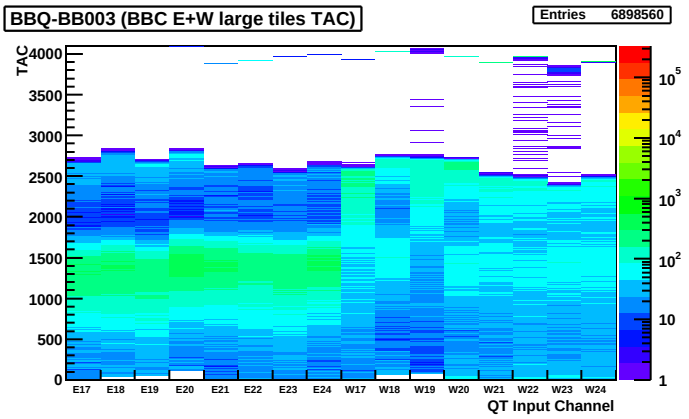

BBQ-BB001 (BBC east small tiles ADC)
Entries 6898560
ADC
QT Input Channel

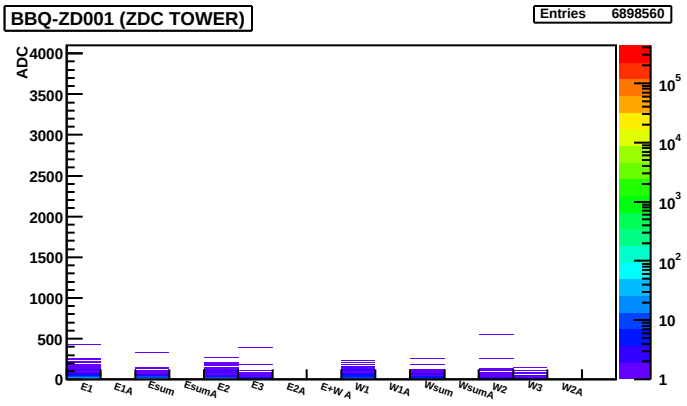

BBQ-BB001 (BBC east small tiles TAC)
Entries 6898560
TAC
QT Input Channel

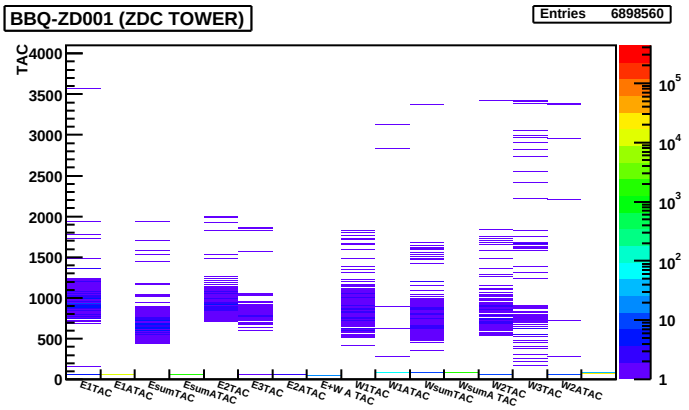

BBQ-BB002 (BBC west small tiles ADC)
Entries 6898560
ADC
QT Input Channel

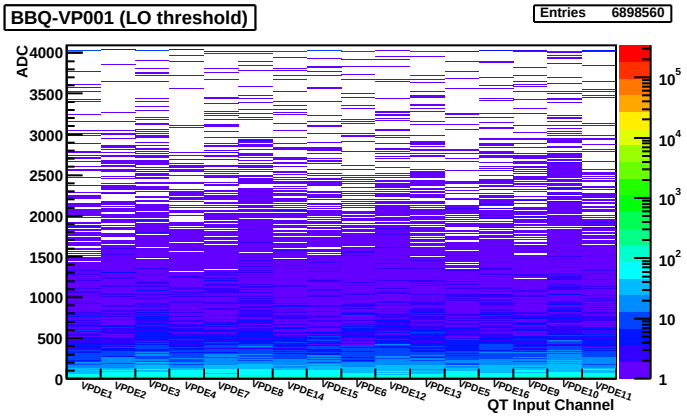

BBQ-BB002 (BBC west small tiles TAC)
Entries 6898560
TAC
QT Input Channel

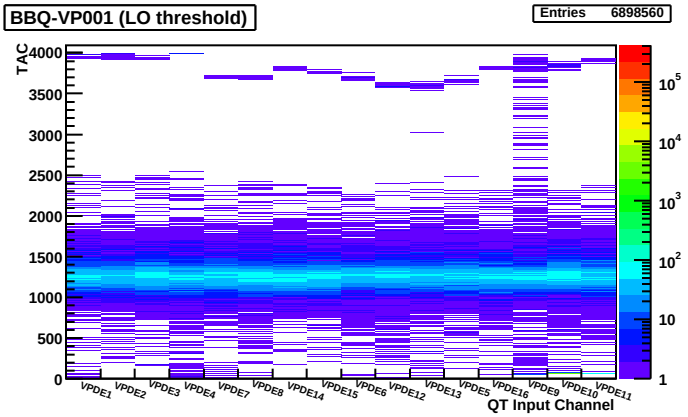

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6898560
ADC
QT Input Channel

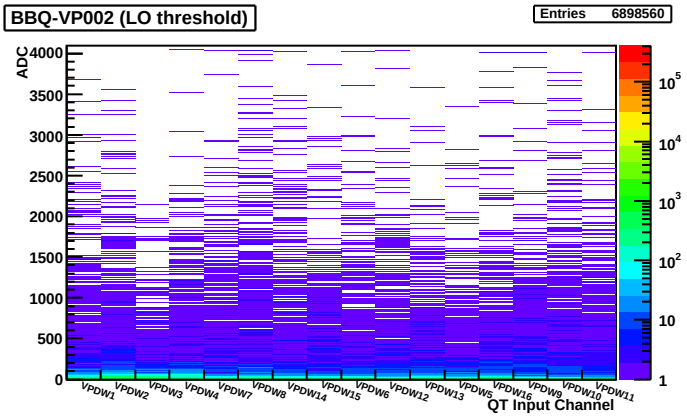

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6898560
TAC
QT Input Channel

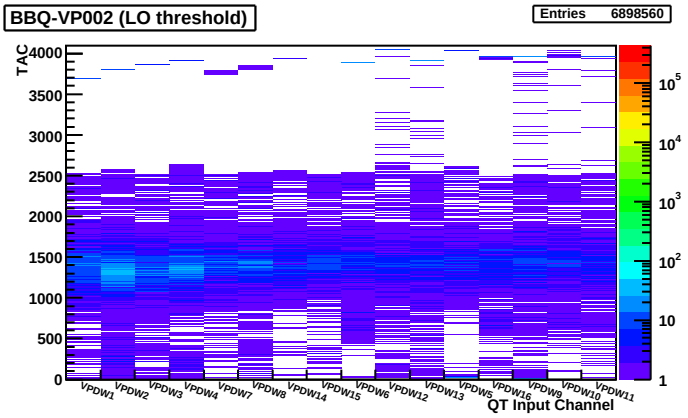

BBQ-ZD001 (ZDC TOWER)
Entries 6898560
ADC

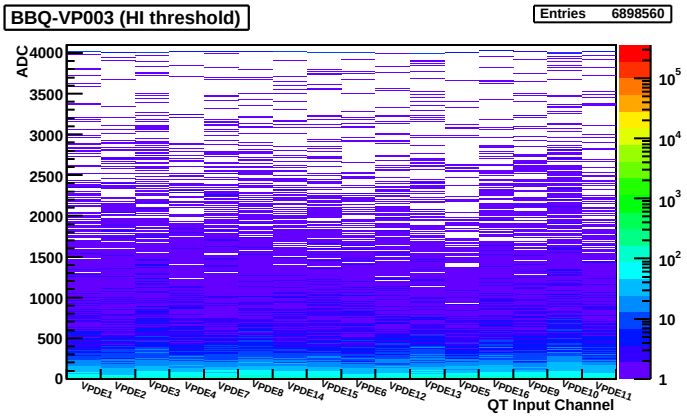

BBQ-ZD001 (ZDC TOWER)
Entries 6898560
TAC

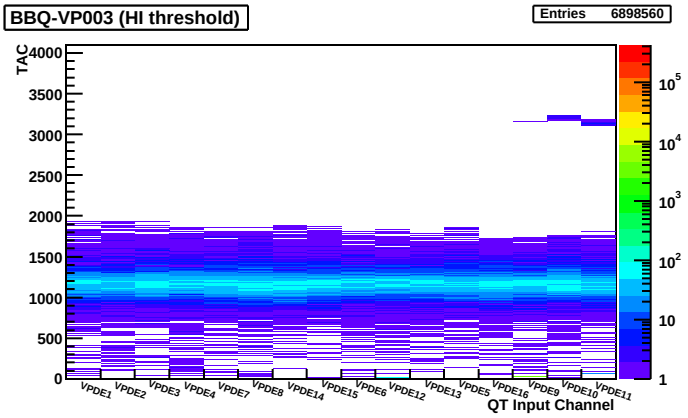

BBQ-VP001 (LO threshold)
Entries 6898560
ADC
QT Input Channel

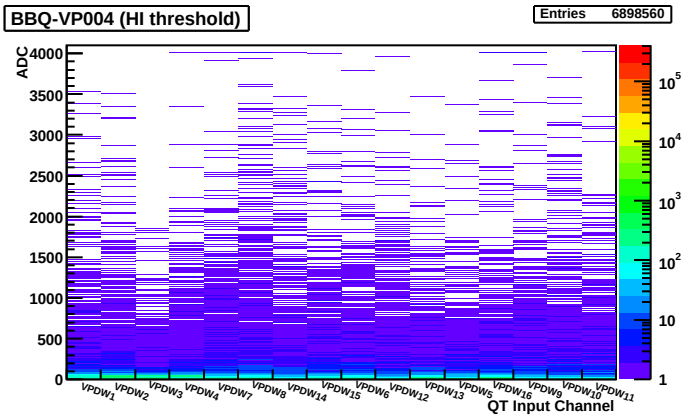

BBQ-VP001 (LO threshold)
Entries 6898560
TAC
QT Input Channel

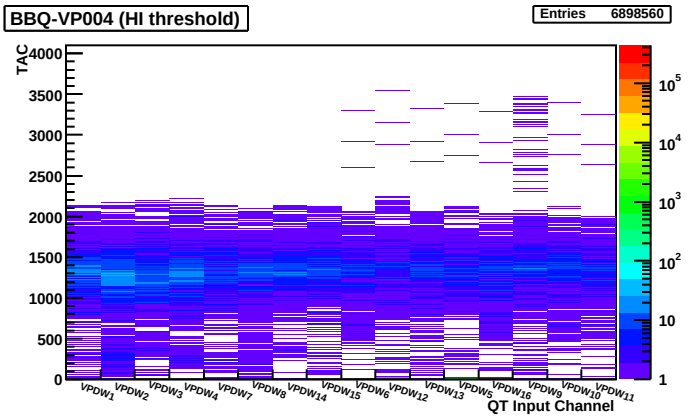

BBQ-VP002 (LO threshold)
Entries 6898560
ADC
QT Input Channel

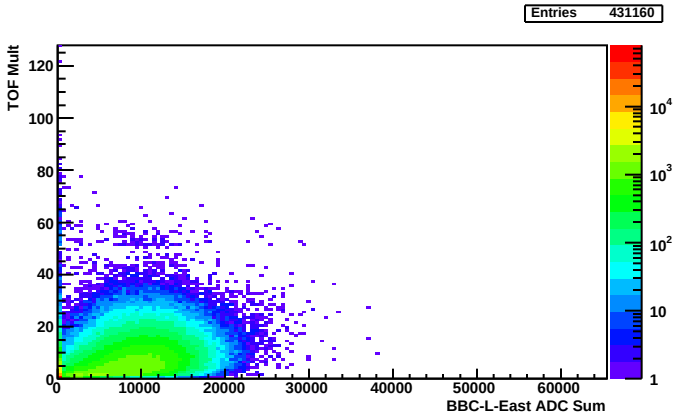

BBQ-VP002 (LO threshold)
Entries 6898560
TAC
QT Input Channel

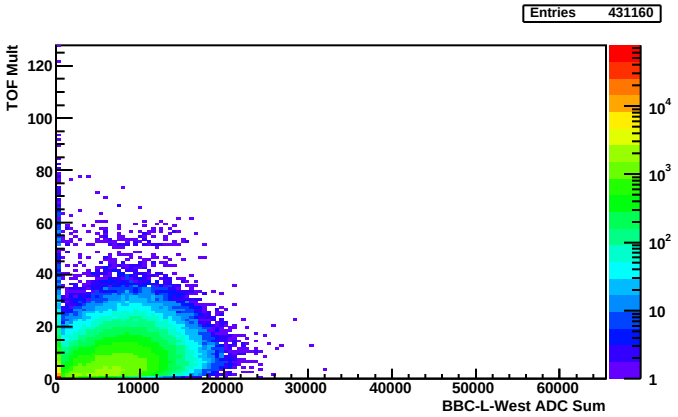

BBQ-VP003 (HI threshold)
Entries 6898560
ADC
QT Input Channel

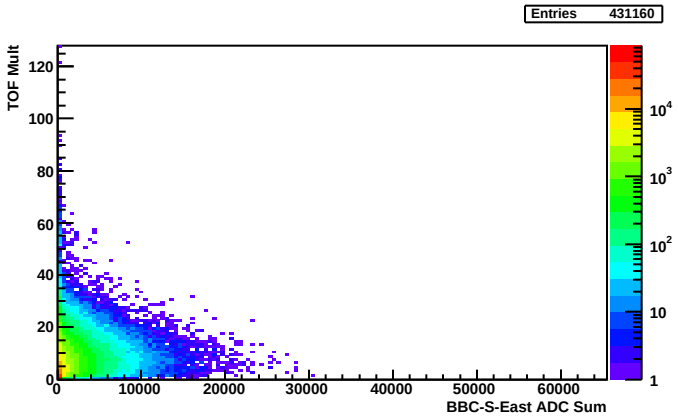

BBQ-VP003 (HI threshold)
Entries 6898560
TAC
QT Input Channel

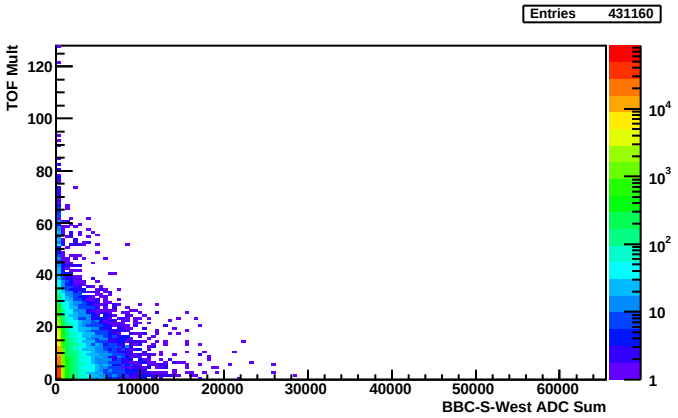

BBQ-VP004 (HI threshold)
Entries 6898560
ADC
QT Input Channel

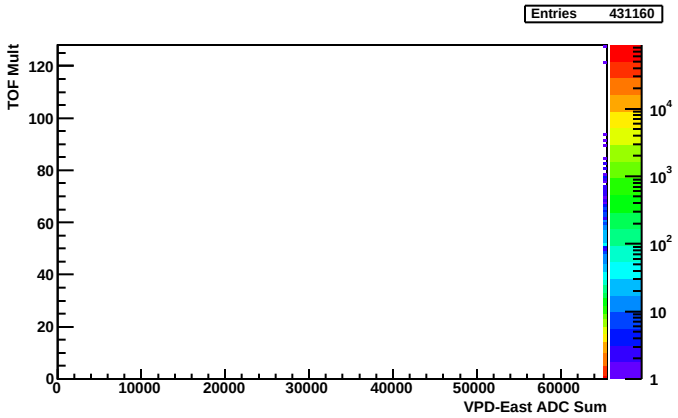

BBQ-VP004 (HI threshold)
Entries 6898560
TAC
QT Input Channel

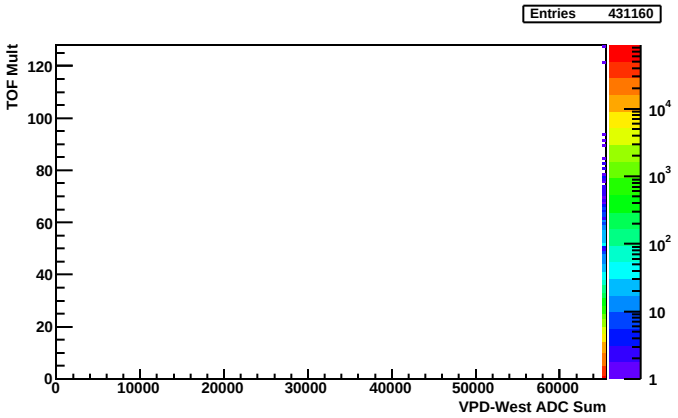

Entries 431160
TOF Mult
BBC-L-East ADC Sum

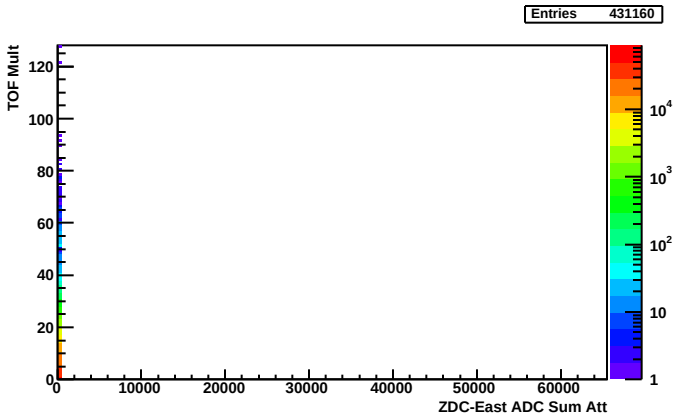

Entries 431160
TOF Mult
BBC-L-West ADC Sum

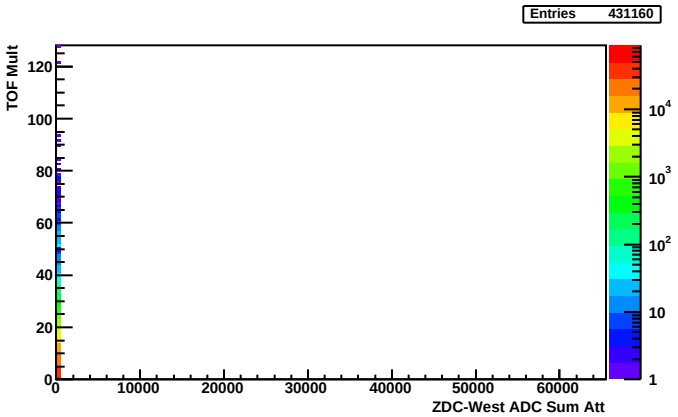

Entries 431160
TOF Mult
BBC-S-East ADC Sum

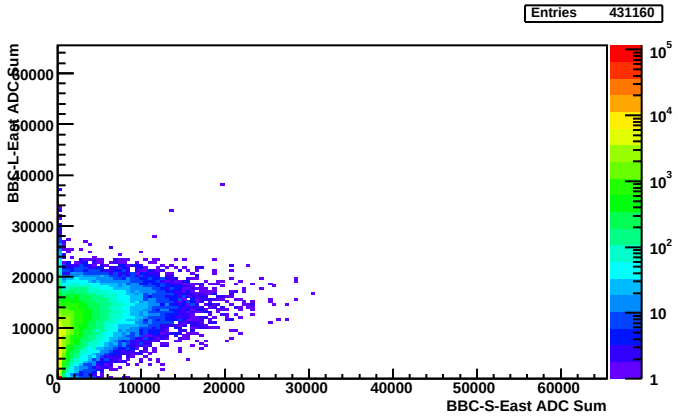

Entries 431160
TOF Mult
BBC-S-West ADC Sum

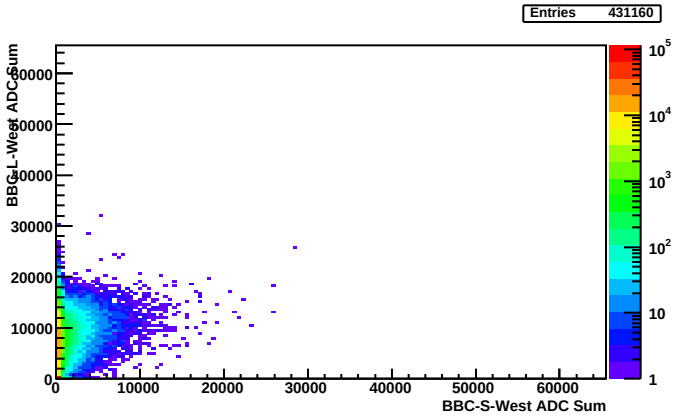

Entries 431160
TOF Mult
VPD-East ADC Sum

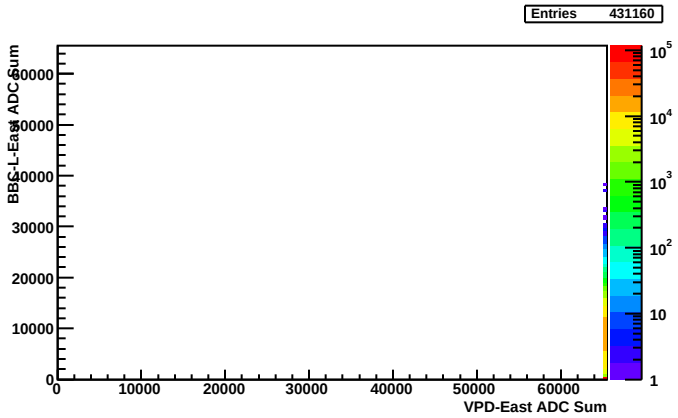

Entries 431160
TOF Mult
VPD-West ADC Sum

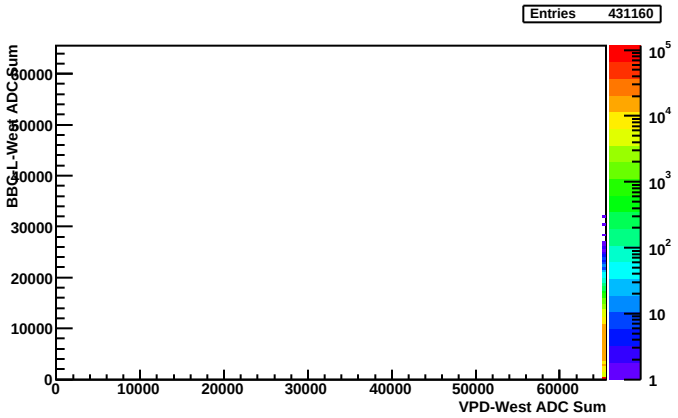

Entries 431160
TOF Mult
ZDC-East ADC Sum Att


Entries 431160
TOF Mult
ZDC-West ADC Sum Att


Entries 431160
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 431160
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 431160
BBC-L-East ADC Sum
VPD-East ADC Sum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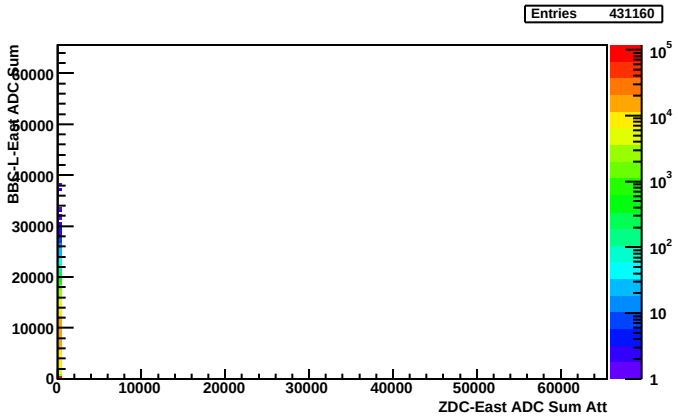
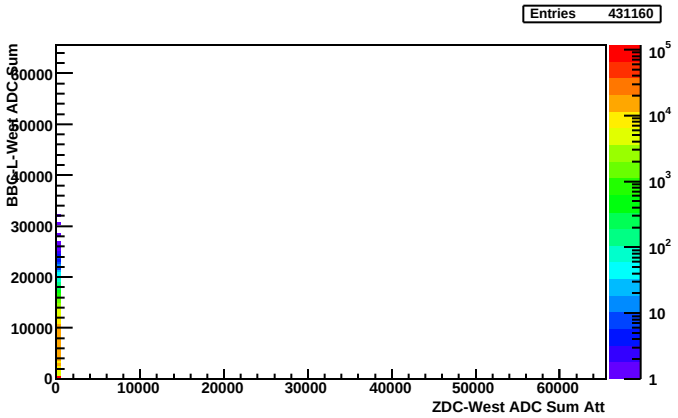
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 431160
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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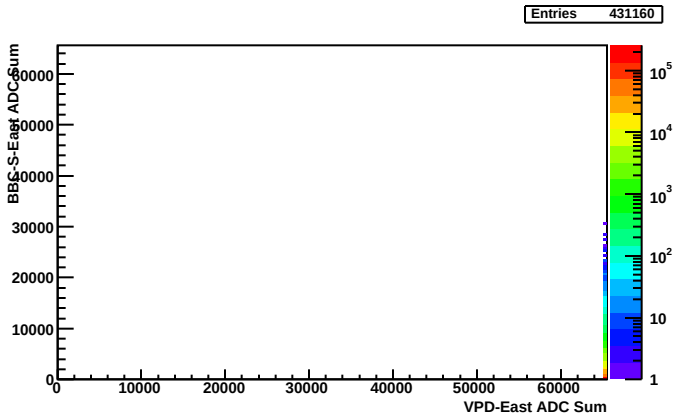
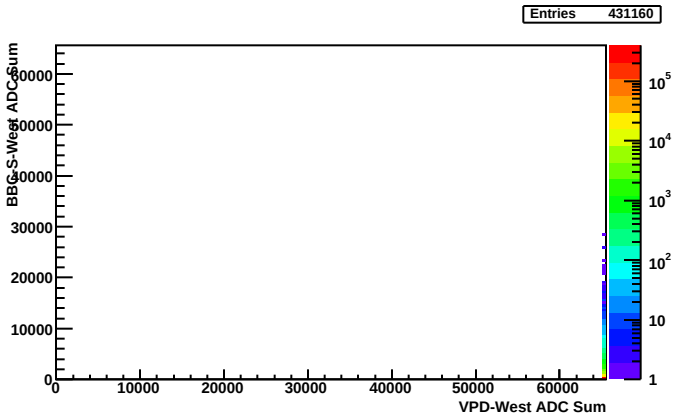
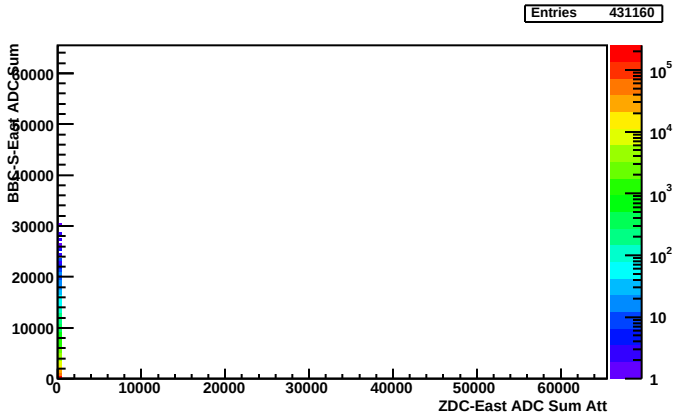
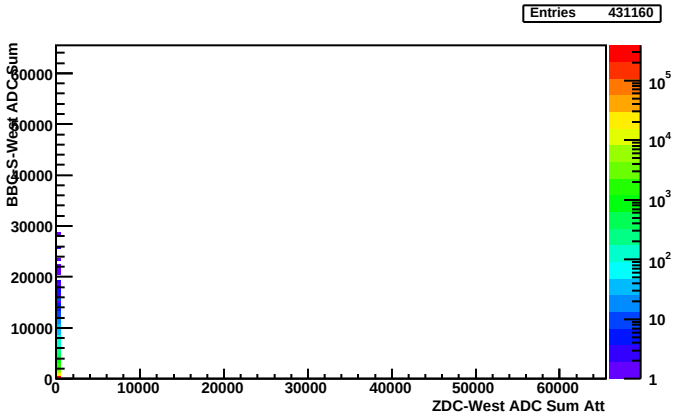
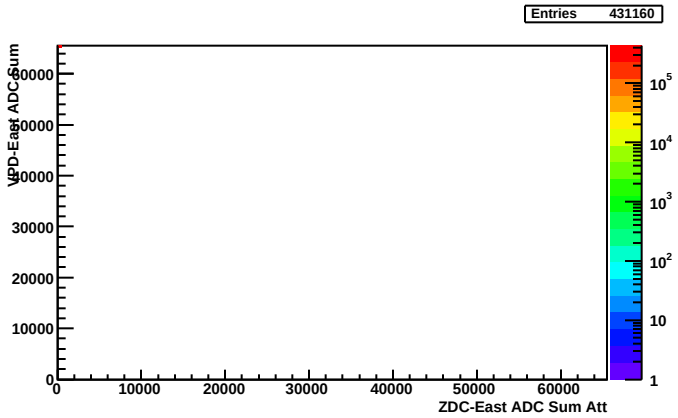
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

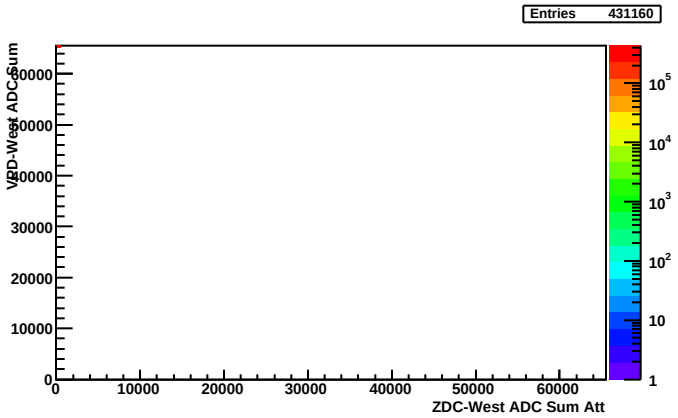

Entries 431160
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 431160
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 431160
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 431160
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 431160
VPD-East ADC Sum
ZDC-East ADC Sum Att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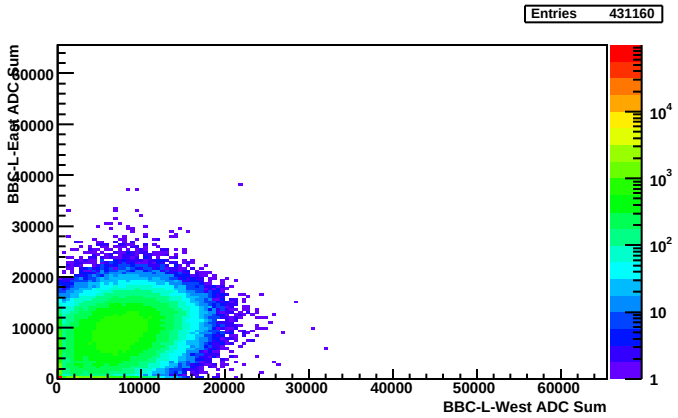
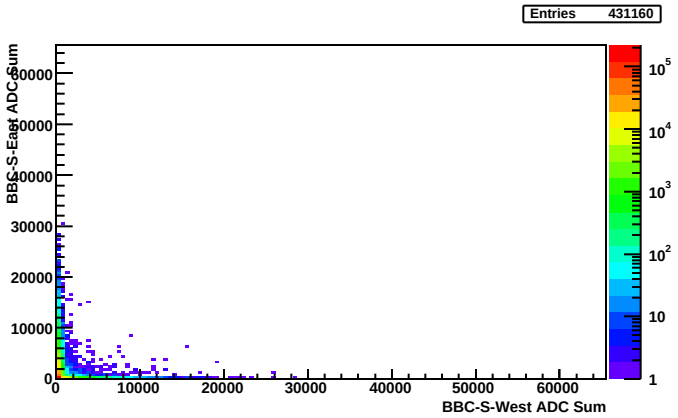
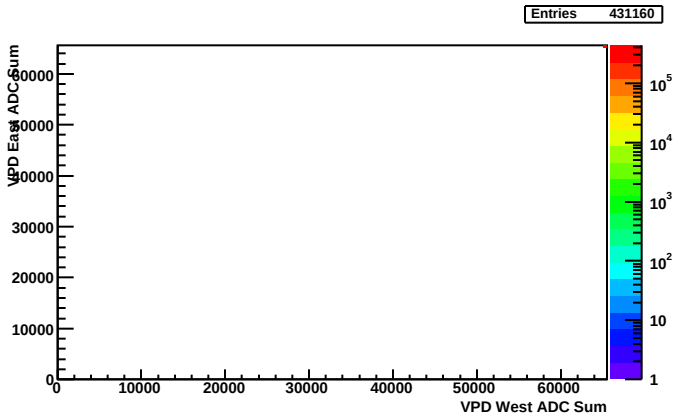
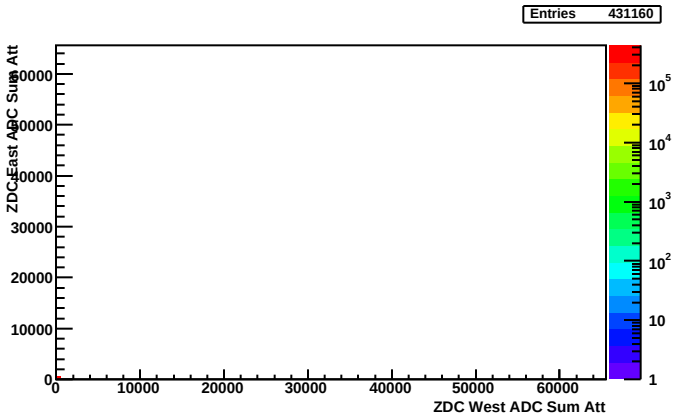
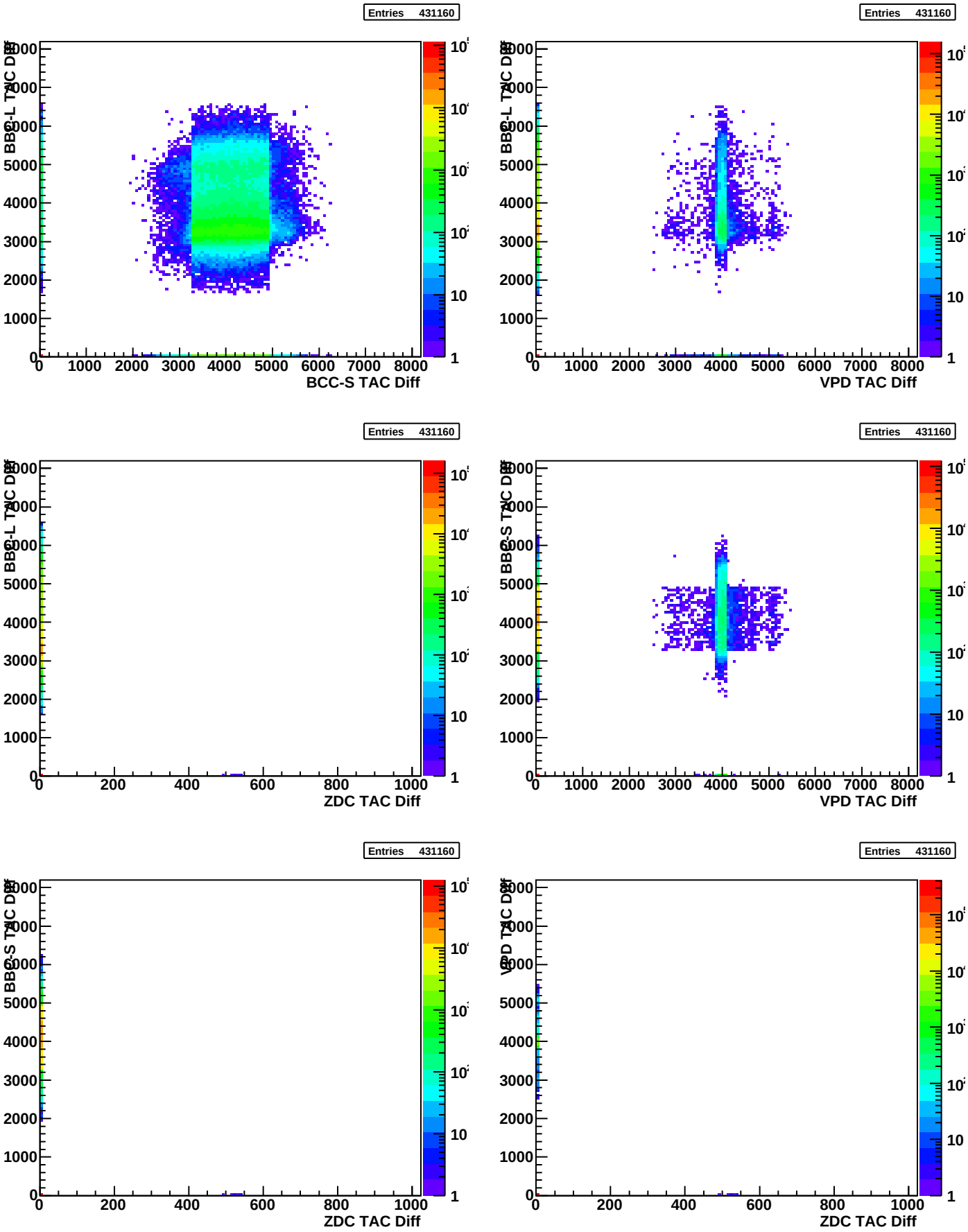
VPD-West ADC Sum
ZDC-West ADC Sum Att

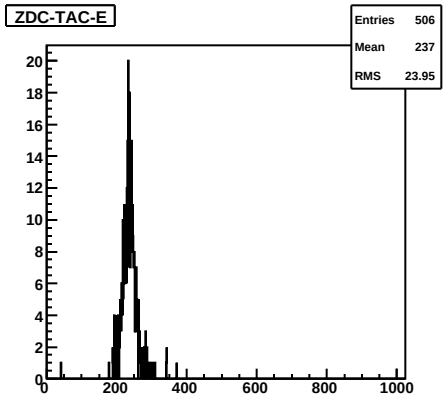

Entries 431160
BBC-L-East ADC Sum
BBC-L-West ADC Sum

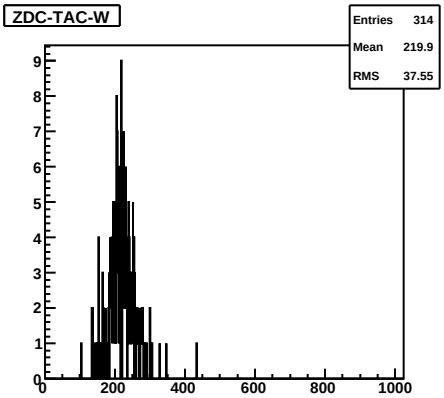

Entries 431160
BBC-S-East ADC Sum
BBC-S-West ADC Sum

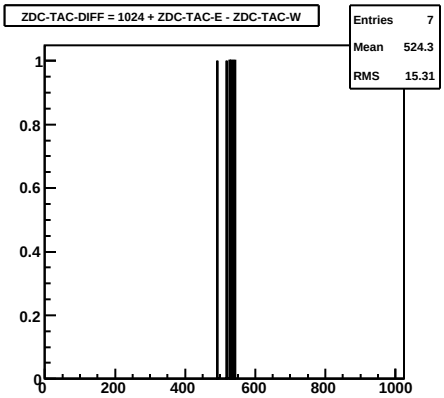

Entries 431160
VPD East ADC Sum
VPD West ADC Sum

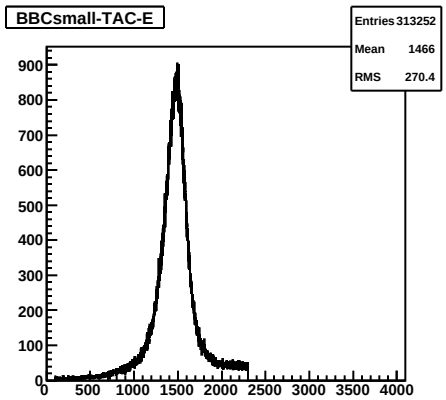

Entries 431160
ZDC East ADC Sum Att
ZDC West ADC Sum Att

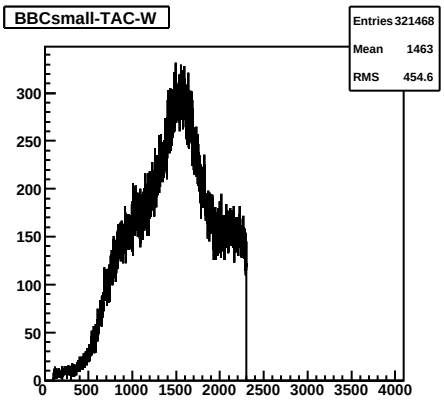

Entries 431160
BBC-L TAC Diff
BCC-S TAC Diff
Entries 431160
BBC-L TAC Diff
VPD TAC Diff
Entries 431160
BBC-L TAC Diff
ZDC TAC Diff
Entries 431160
BBC-S TAC Diff
VPD TAC Diff
Entries 431160
BBC-S TAC Diff
ZDC TAC Diff
Entries 431160
VPD TAC Diff
ZDC TAC Diff

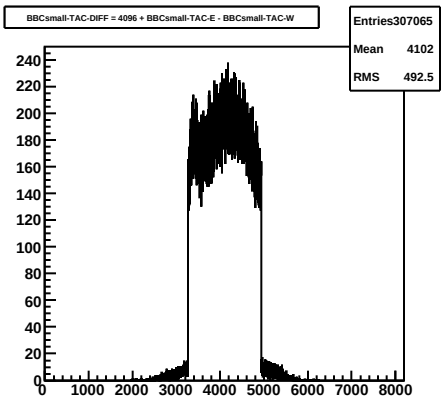

ZDC-TAC-E
Entries 506
Mean 237
RMS 23.95

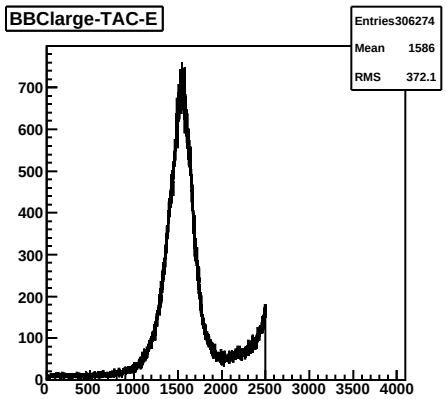

ZDC-TAC-W
Entries 314
Mean 219.9
RMS 37.55

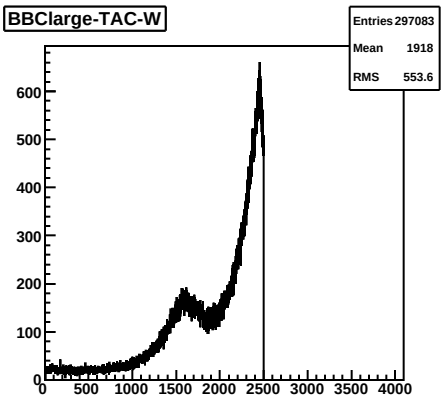

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 7
Mean 524.3
RMS 15.31

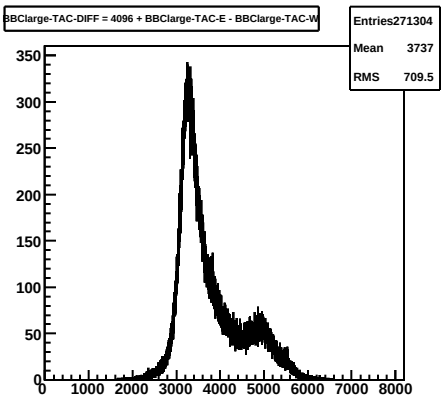

BBCsmall-TAC-E
Entries 313252
Mean 1466
RMS 270.4

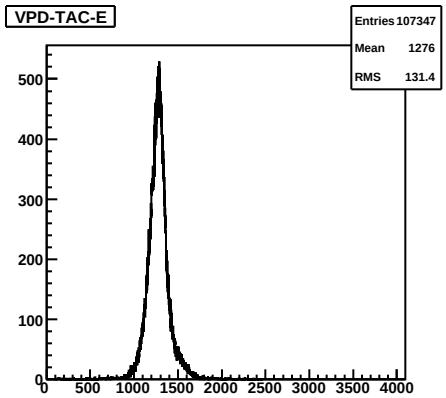

BBCsmall-TAC-W
Entries 321468
Mean 1463
RMS 454.6

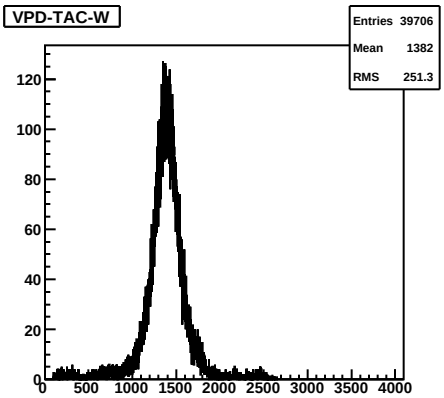

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 307065
Mean 4102
RMS 492.5

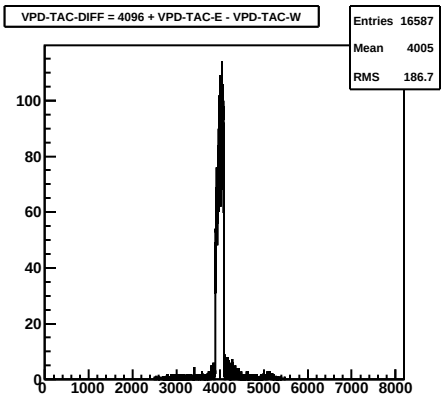

BBClarge-TAC-E
Entries 306274
Mean 1586
RMS 372.1

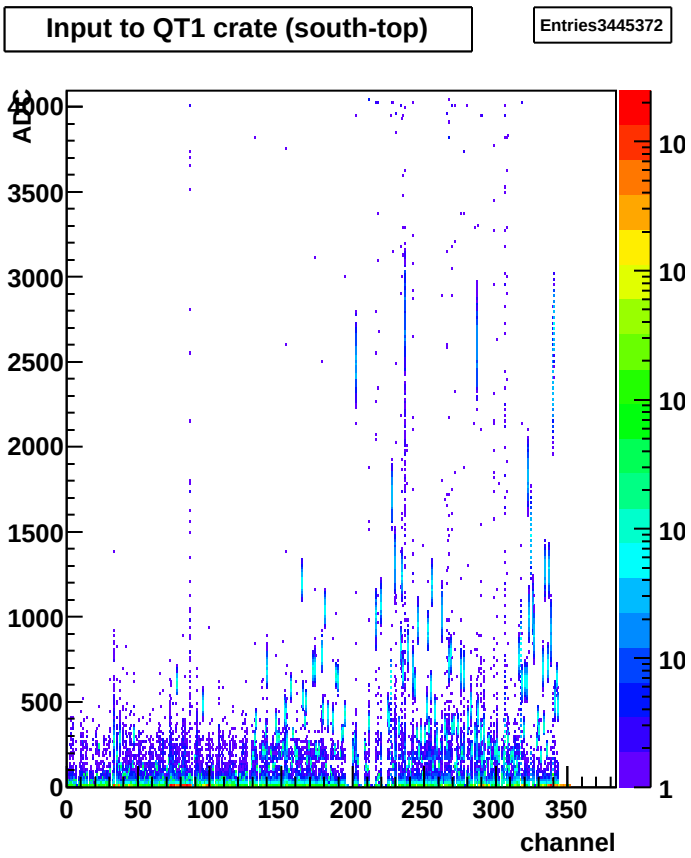

BBClarge-TAC-W
Entries 297083
Mean 1918
RMS 553.6

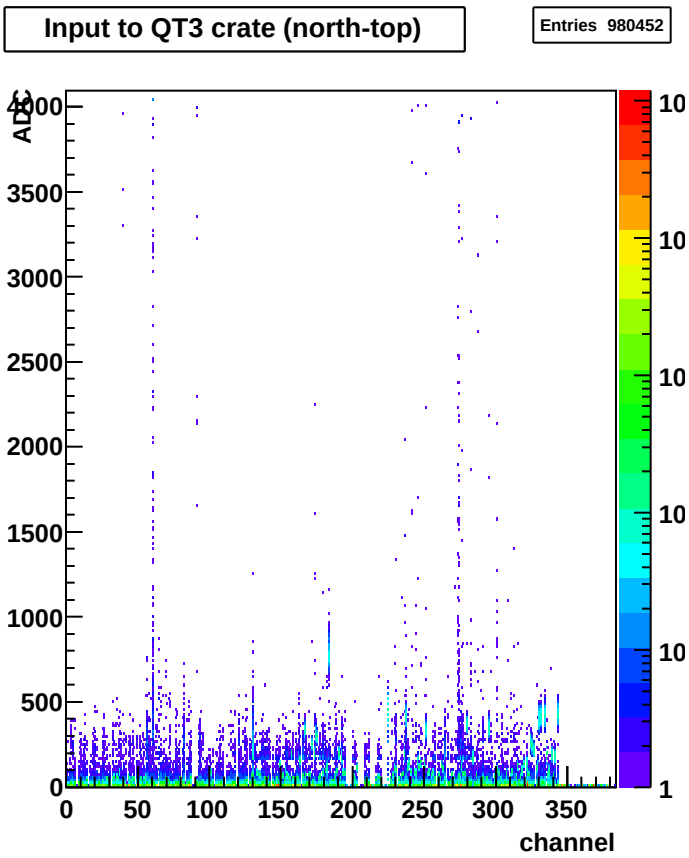

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 271304
Mean 3737
RMS 709.5

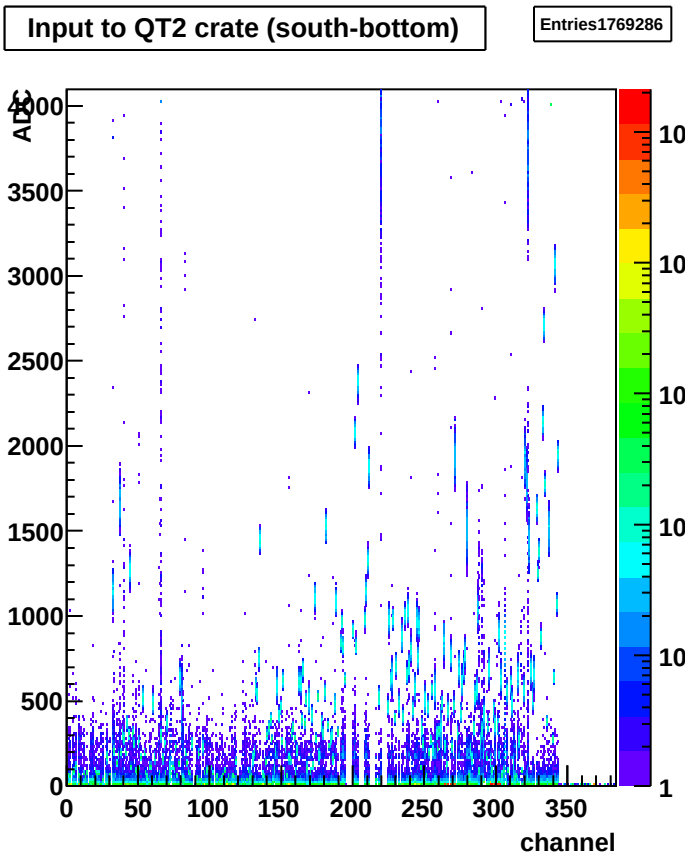

VPD-TAC-E
Entries 107347
Mean 1276
RMS 131.4

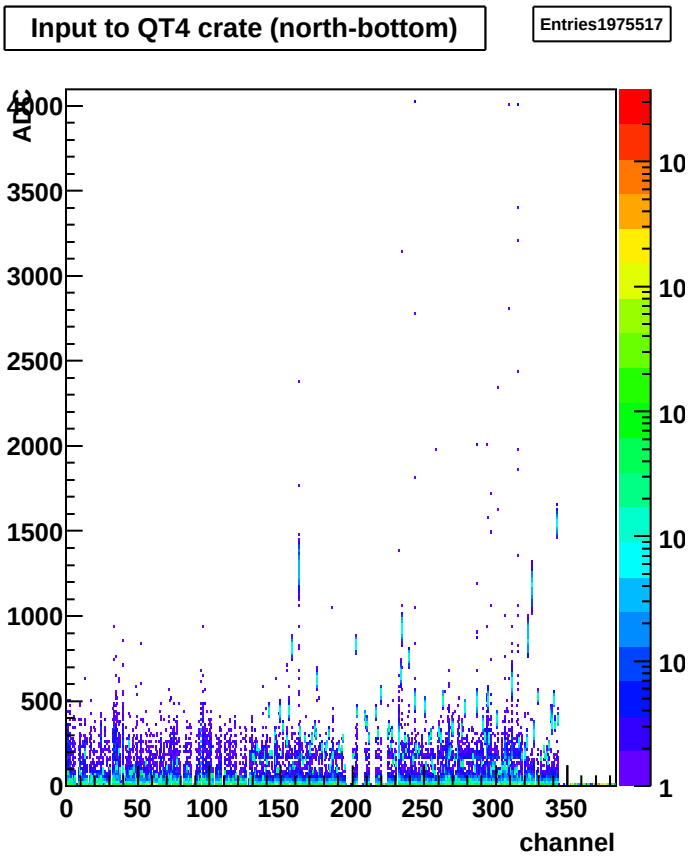

VPD-TAC-W
Entries 39706
Mean 1382
RMS 251.3

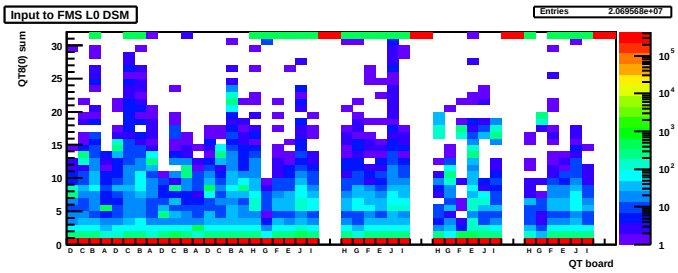

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 16587
Mean 4005
RMS 186.7

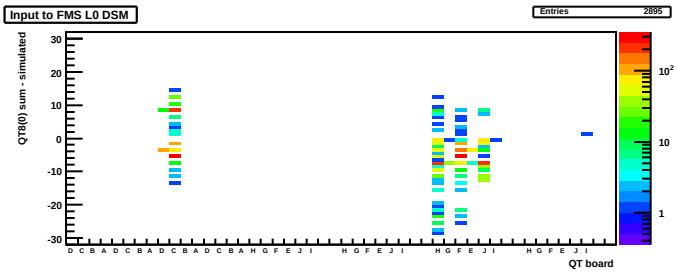

Input to QT1 crate (south-top)
Entries3445372
ADC
channel

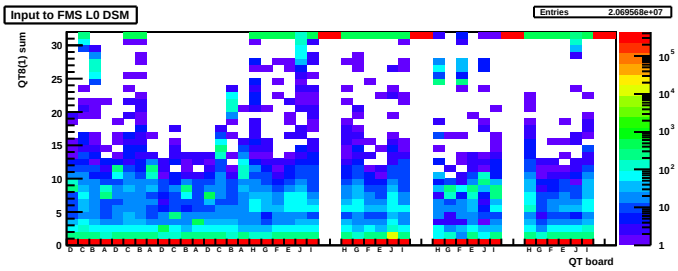

Input to QT3 crate (north-top)
Entries 980452
ADC
channel

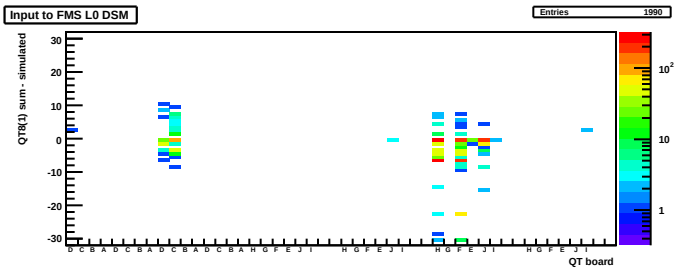

Input to QT2 crate (south-bottom)
Entries1769286
ADC
channel

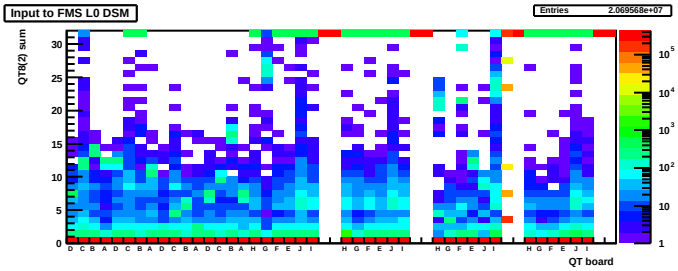

Input to QT4 crate (north-bottom)
Entries1975517
ADC
channel

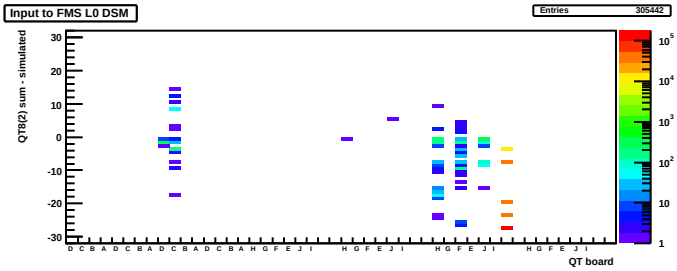

Input to FMS L0 DSM
Entries 2.069568e+07
QT8(0) sum
QT board

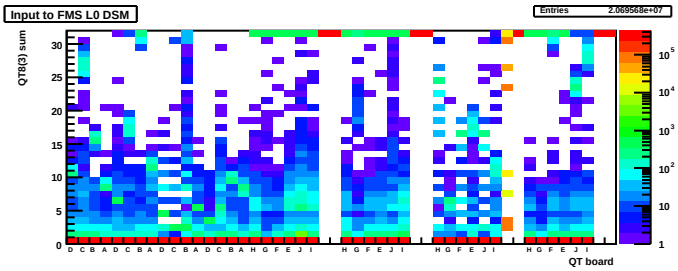

Input to FMS L0 DSM
Entries 2895
QT8(0) sum - simulated
QT board

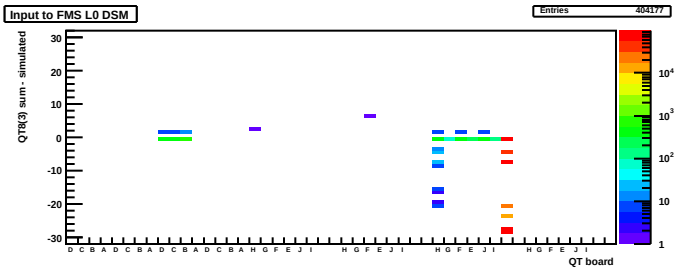

Input to FMS L0 DSM
Entries 2.069568e+07
QT8(1) sum
QT board

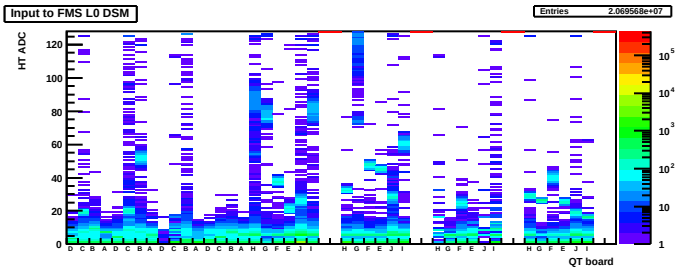

Input to FMS L0 DSM
Entries 1990
QT8(1) sum - simulated
QT board

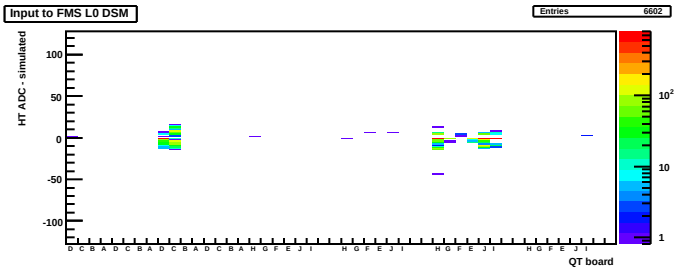

Input to FMS L0 DSM
Entries 2.069568e+07
QT8(2) sum
QT board

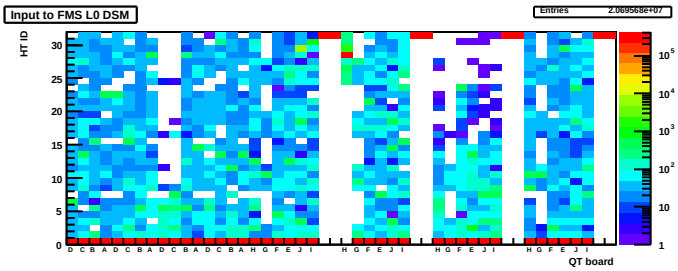

Input to FMS L0 DSM
Entries 305442
QT8(2) sum - simulated
QT board

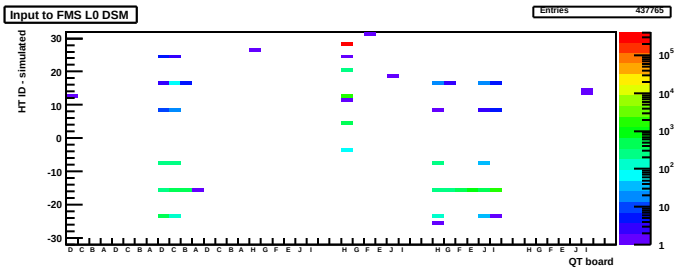

Input to FMS L0 DSM
Entries 2.069568e+07
QT8(3) sum
QT board

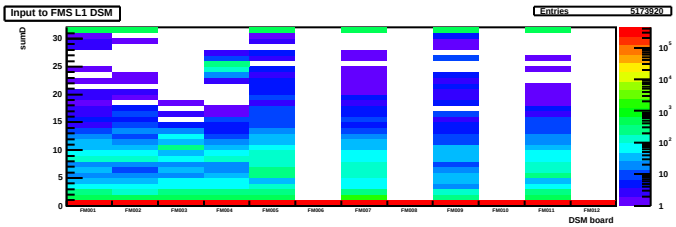

Input to FMS L0 DSM
Entries 404177
QT8(3) sum - simulated
QT board

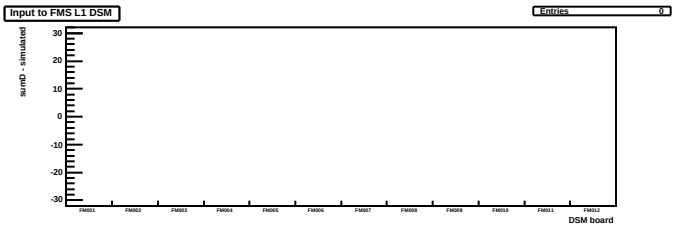

Input to FMS L0 DSM
Entries 2.069568e+07
HT ADC
QT board

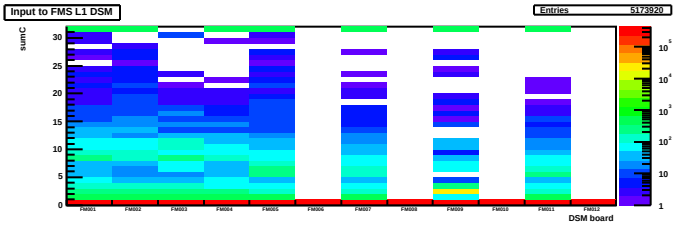

Input to FMS L0 DSM
Entries 6602
HT ADC - simulated
QT board

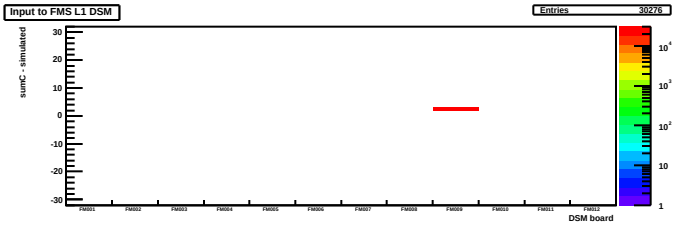

Input to FMS L0 DSM
Entries 2.069568e+07
HT ID
QT board

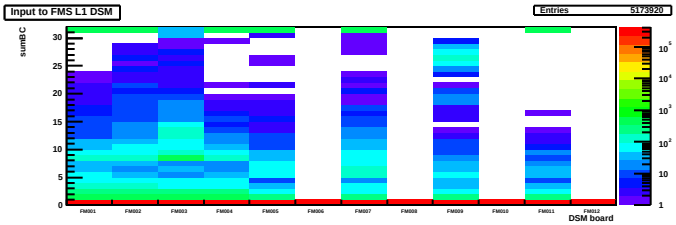

Input to FMS L0 DSM
Entries 437765
HT ID - simulated
QT board

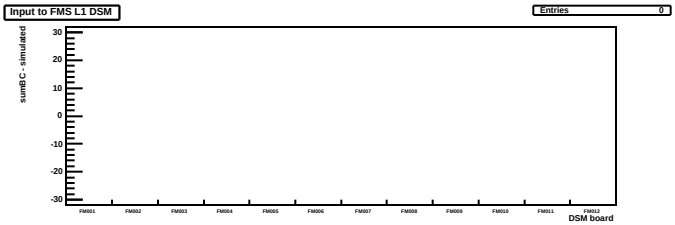

Input to FMS L1 DSM
Entries 5173920
sumD
DSM board

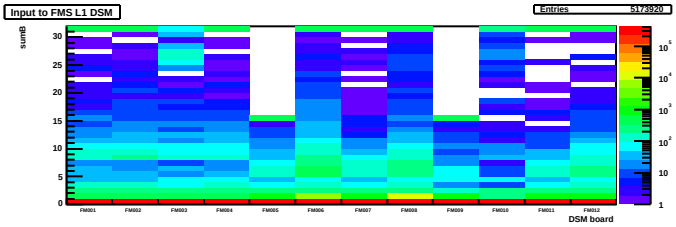

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

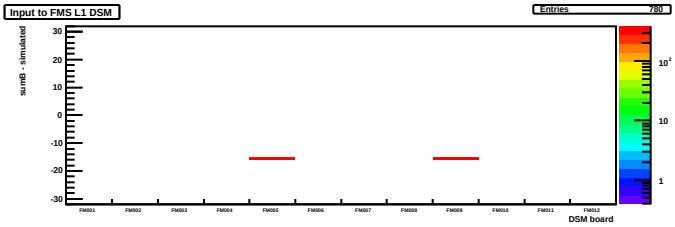

Input to FMS L1 DSM
Entries 5173920
sumC
DSM board

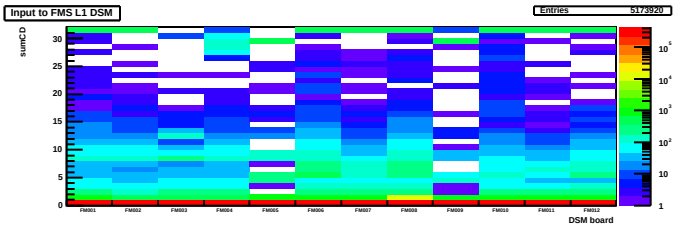

Input to FMS L1 DSM
Entries 30276
sumC - simulated
DSM board

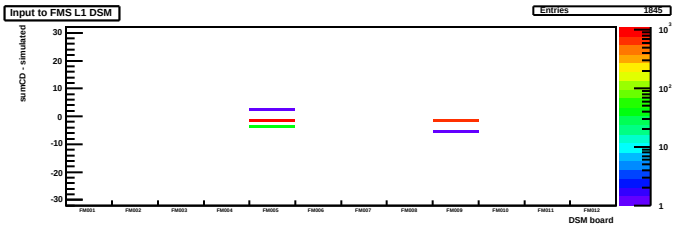

Input to FMS L1 DSM
Entries 5173920
sumBC
DSM board

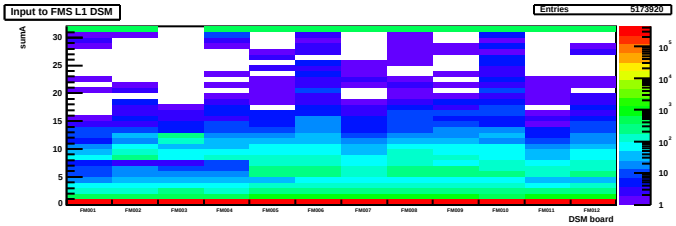

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

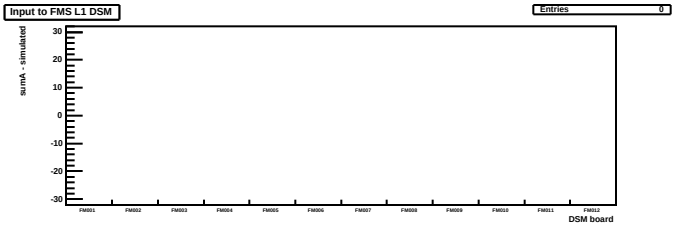

Input to FMS L1 DSM
Entries 5173920
sumB
DSM board

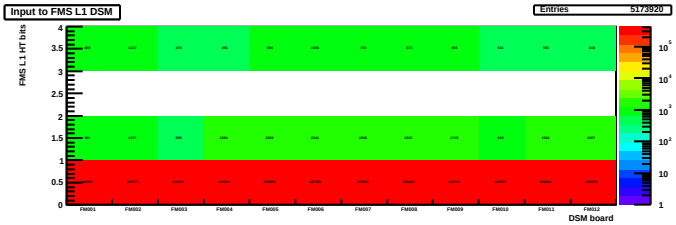

Input to FMS L1 DSM
Entries 780
sumB - simulated
DSM board

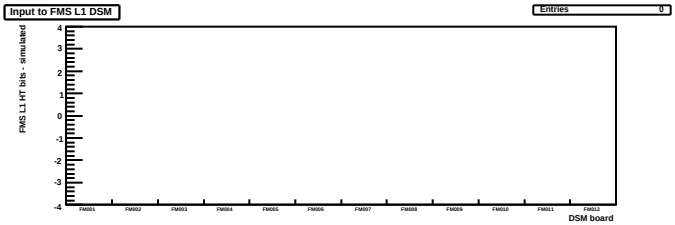

Input to FMS L1 DSM
Entries 5173920
sumCD
DSM board

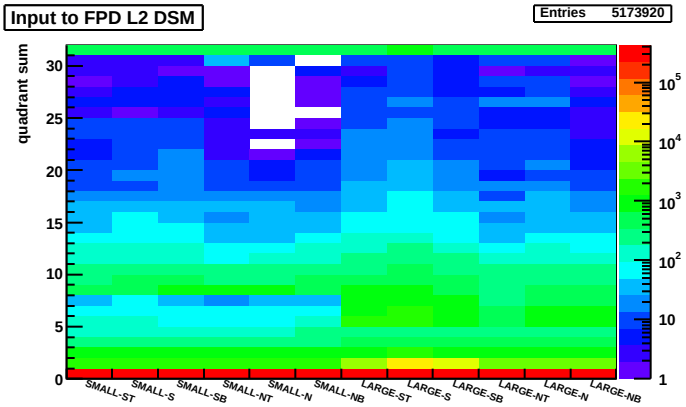

Input to FMS L1 DSM
Entries 1845
sumCD - simulated
DSM board

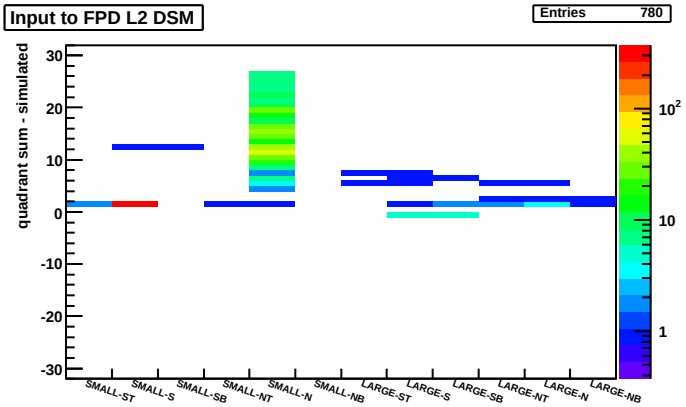

Input to FMS L1 DSM
Entries 5173920
sumA
DSM board

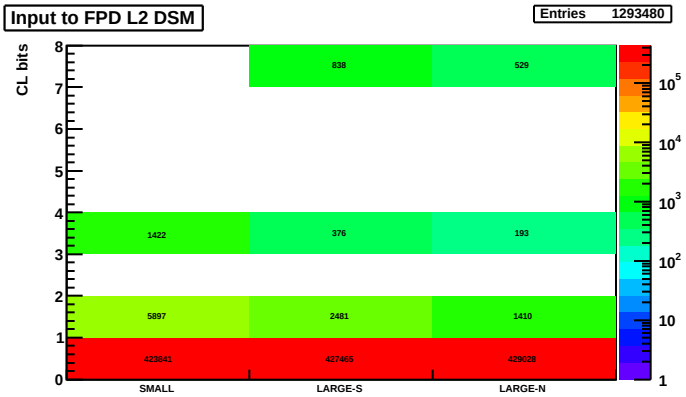

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

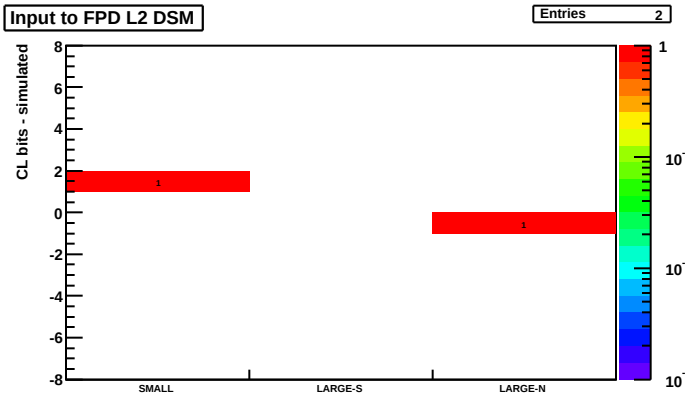

Input to FMS L1 DSM
Entries 5173920
FMS L1 HT bits
DSM board

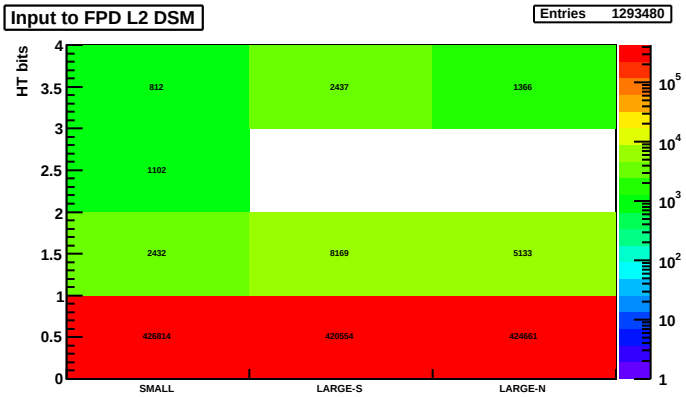

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

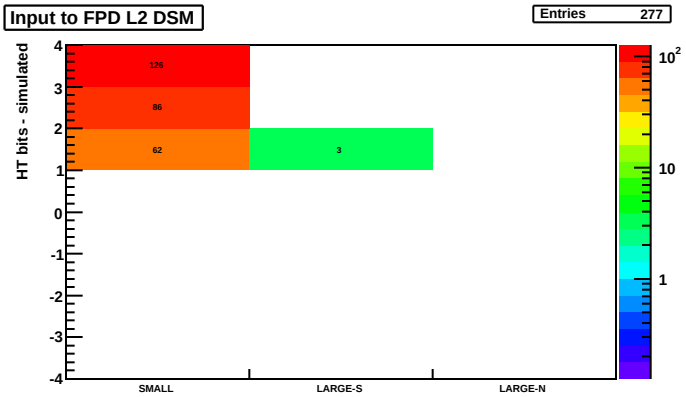

Input to FPD L2 DSM
Entries 5173920
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

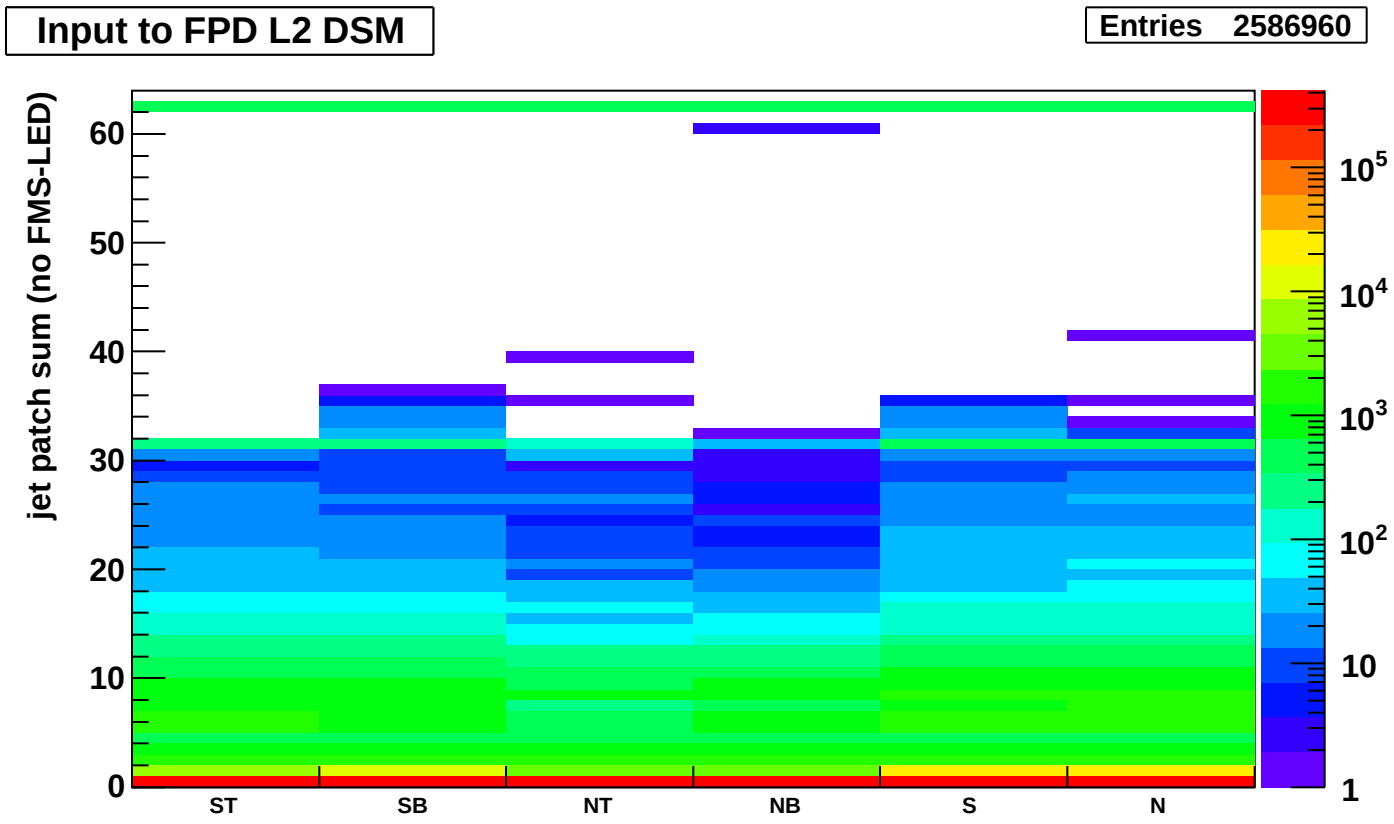

Input to FPD L2 DSM
Entries 780
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

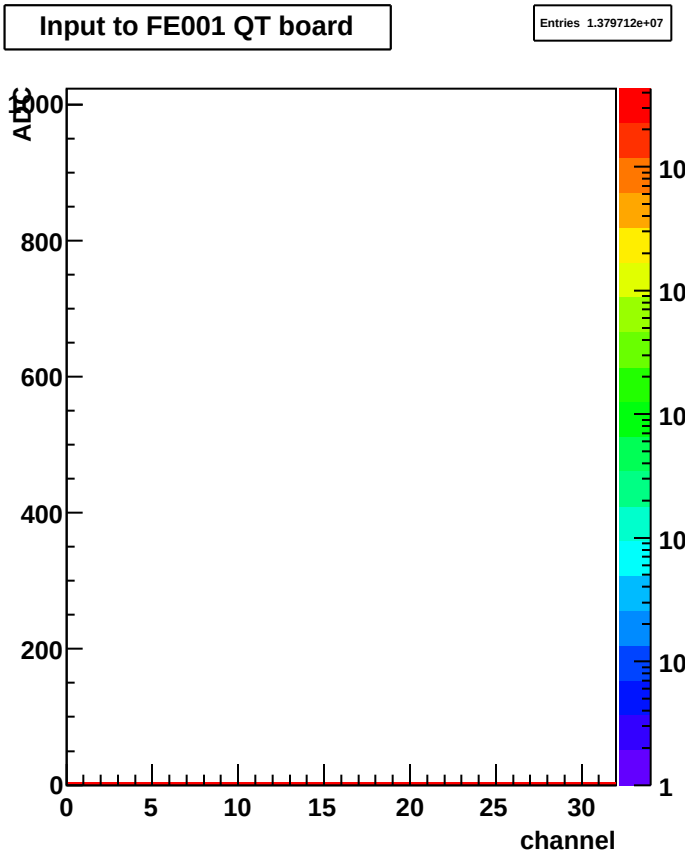

Input to FPD L2 DSM
Entries 1293480
CL bits
838
529
1422
376
193
5897
2481
1410
423841
427465
429028
SMALL
LARGE-S
LARGE-N

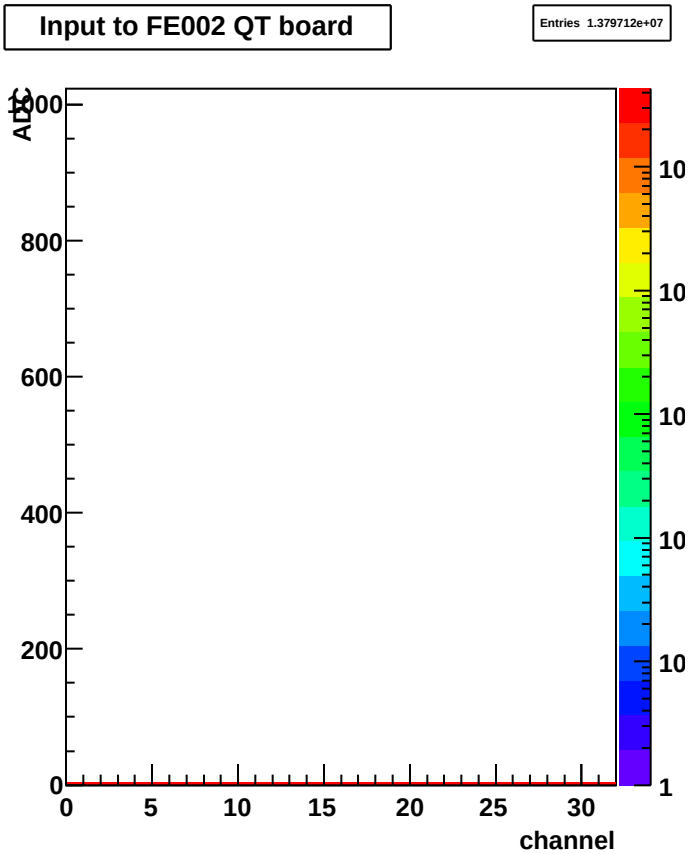

Input to FPD L2 DSM
Entries 2
CL bits - simulated
1
1
SMALL
LARGE-S
LARGE-N

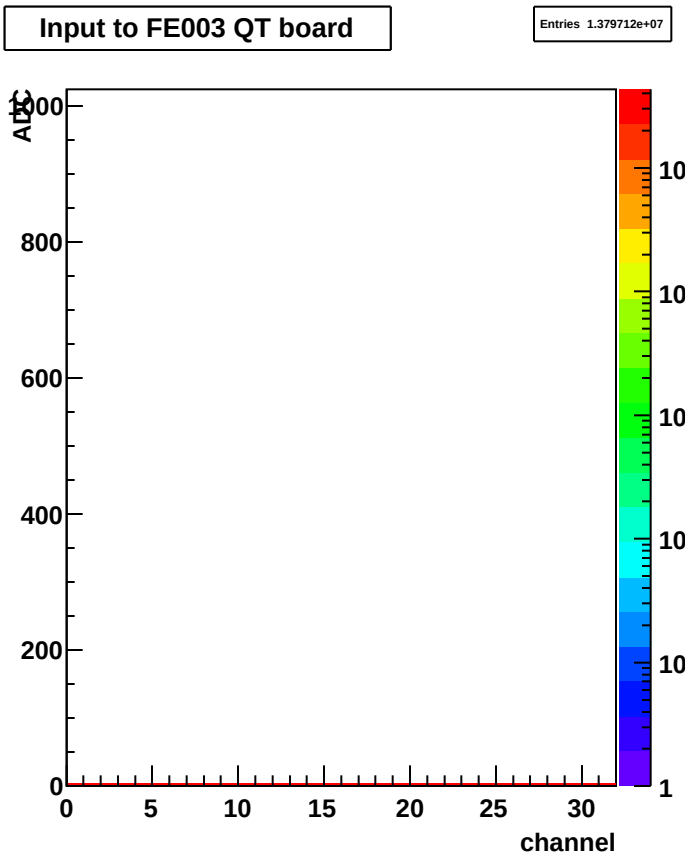

Input to FPD L2 DSM
Entries 1293480
HT bits
812
2437
1366
1102
2432
8169
5133
426814
420554
424661
SMALL
LARGE-S
LARGE-N

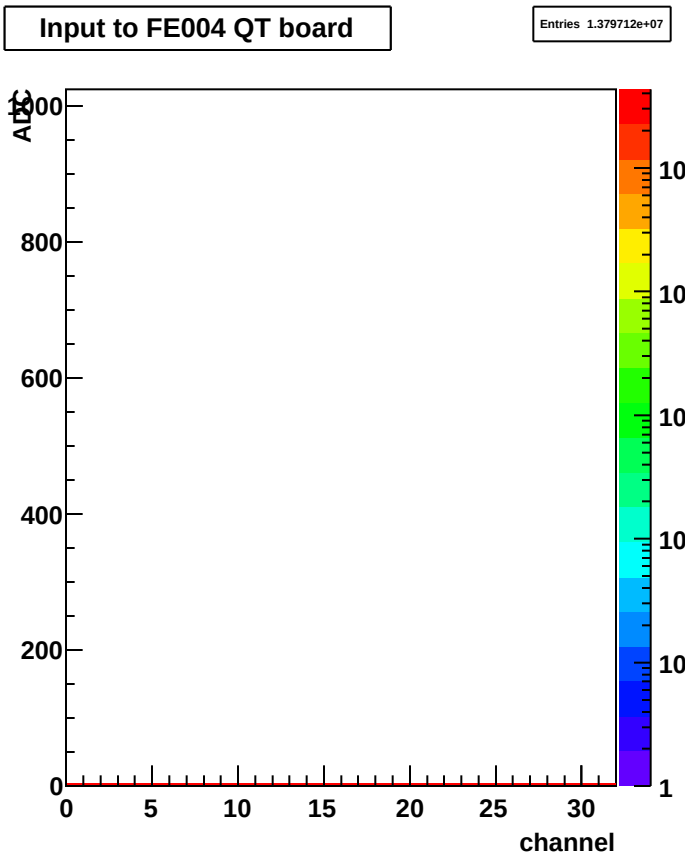

Input to FPD L2 DSM
Entries 277
HT bits - simulated
126
86
62
3
SMALL
LARGE-S
LARGE-N

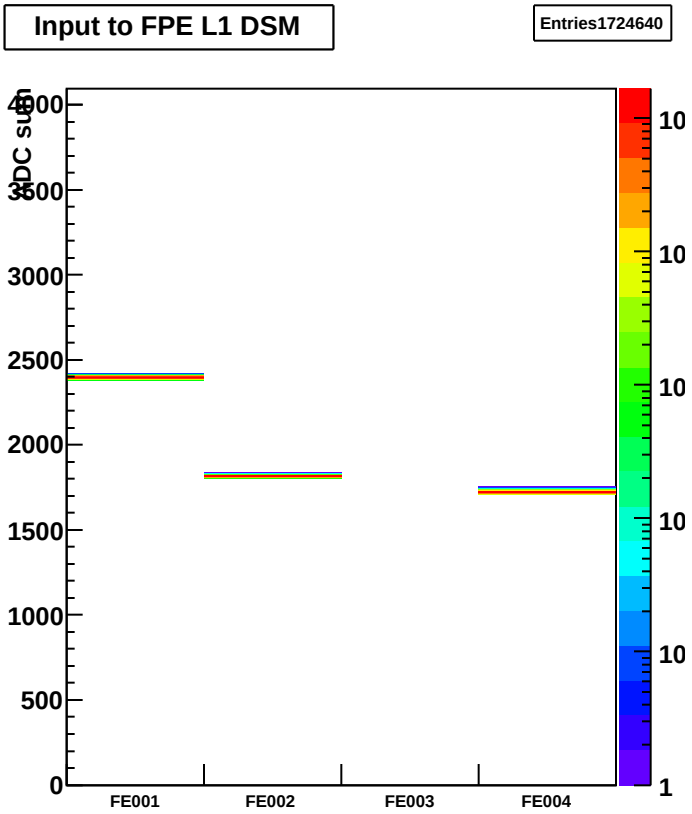

Input to FPD L2 DSM
Entries 2586960
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

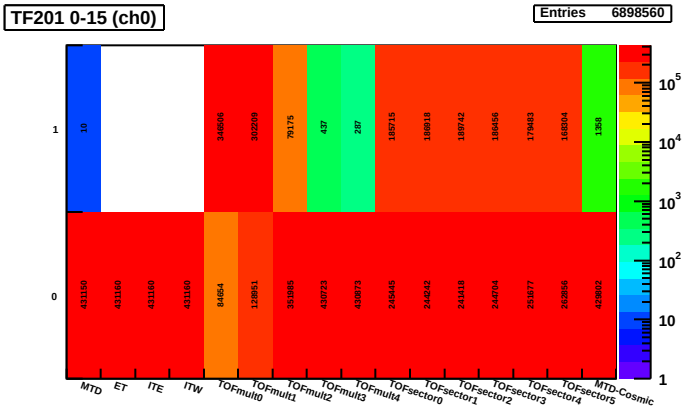

Input to FE001 QT board
Entries 1.379712e+07
ADC
channel

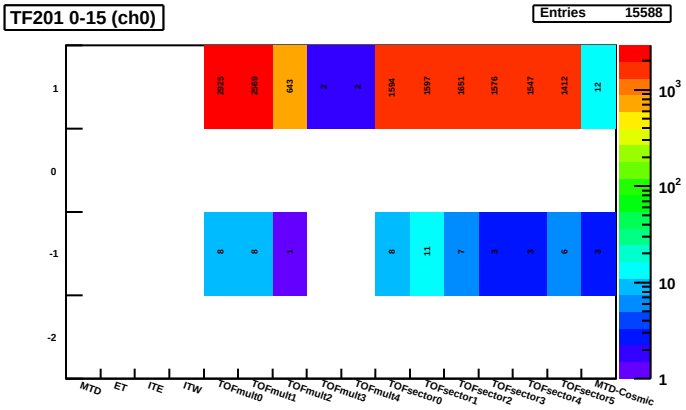

Input to FE002 QT board
Entries 1.379712e+07
ADC
channel

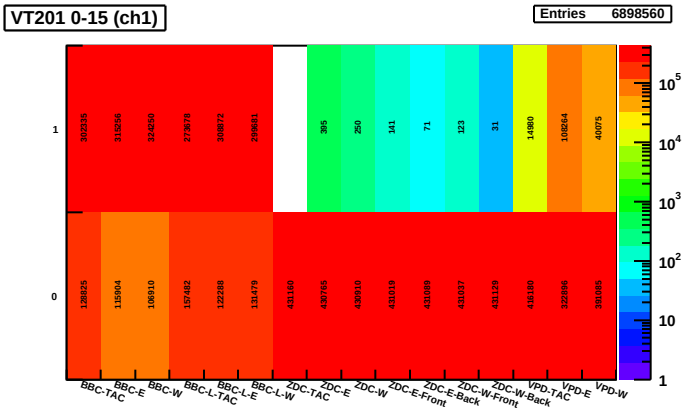

Input to FE003 QT board
Entries 1.379712e+07
ADC
channel

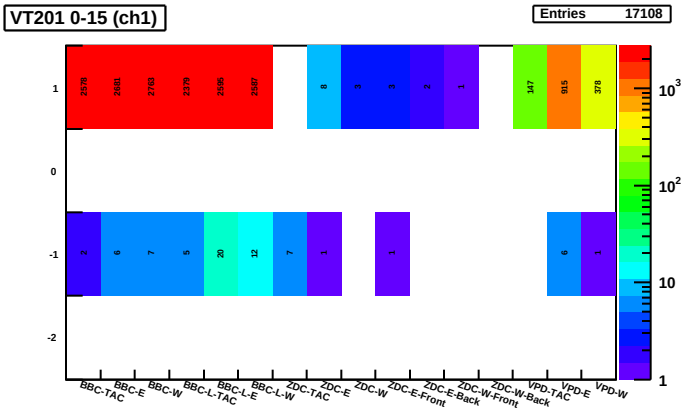

Input to FE004 QT board
Entries 1.379712e+07
ADC
channel

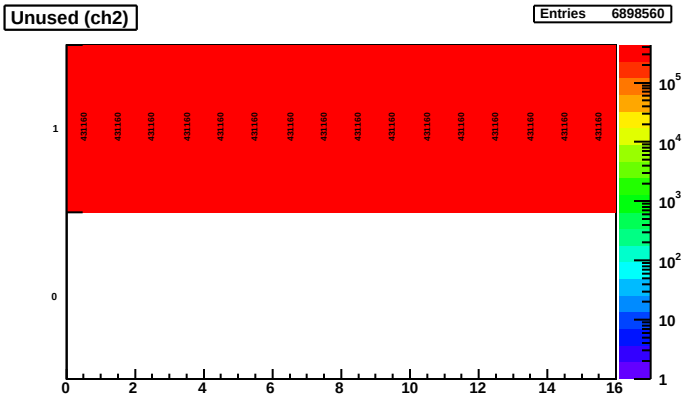

Input to FPE L1 DSM
Entries1724640
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

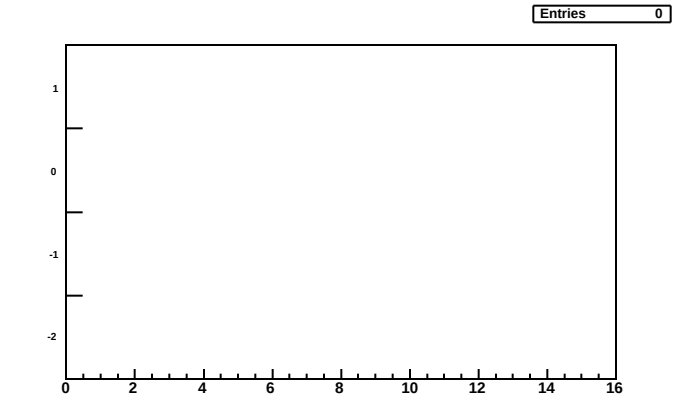

TF201 0-15 (ch0)
Entries 6898560
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 15588
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 6898560
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 17108
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 6898560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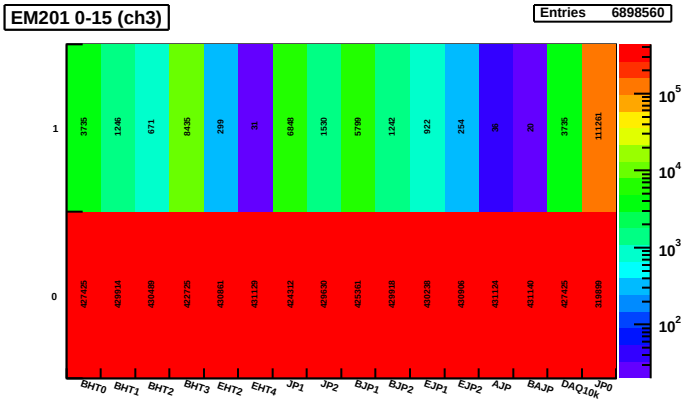
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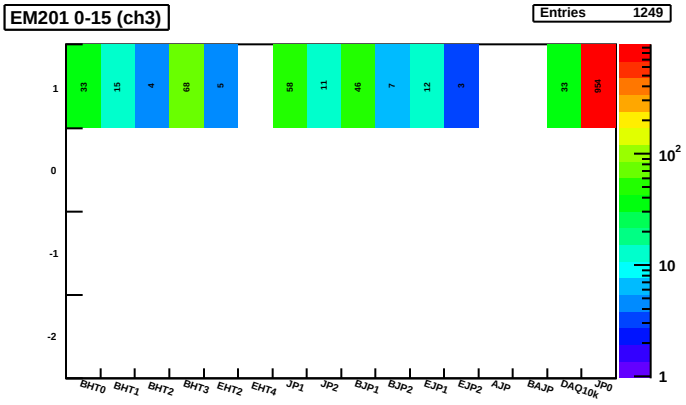
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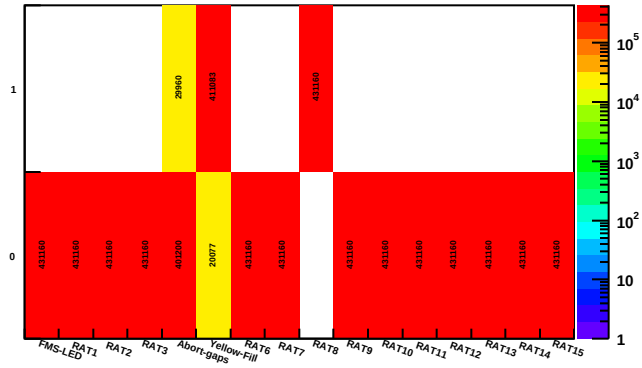
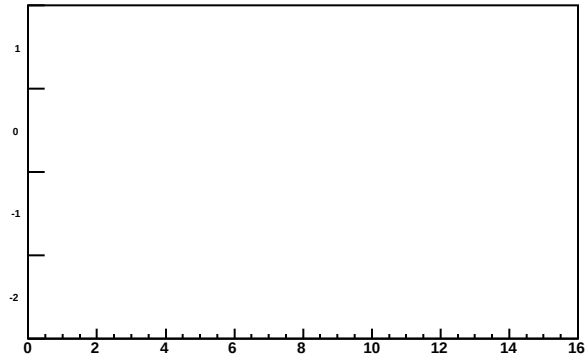
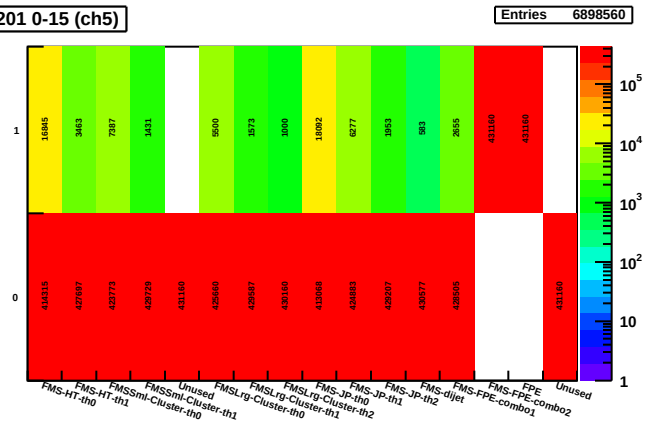
RAT board (ch4)





FP201 0-15 (ch5)



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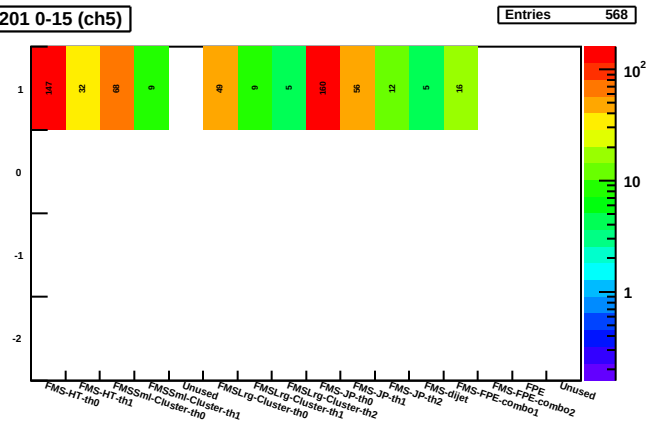

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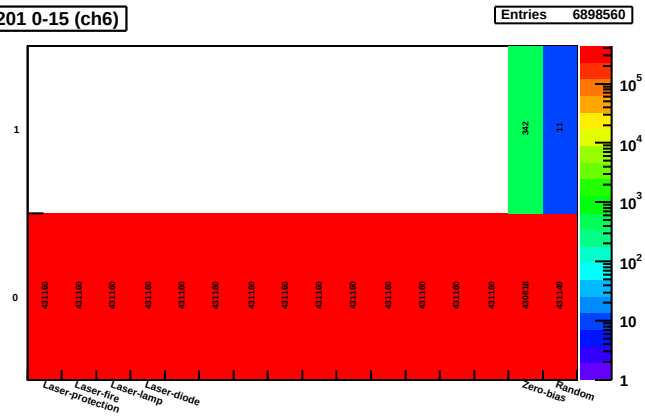

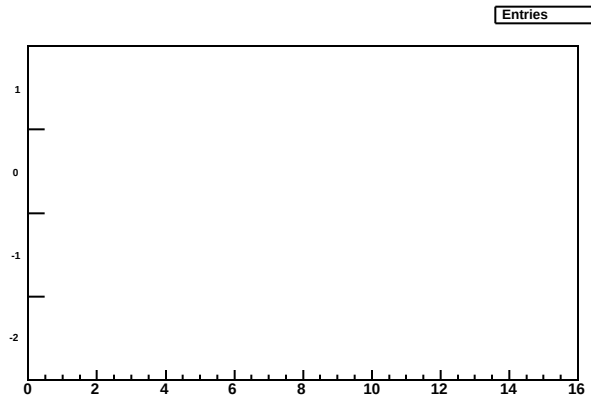
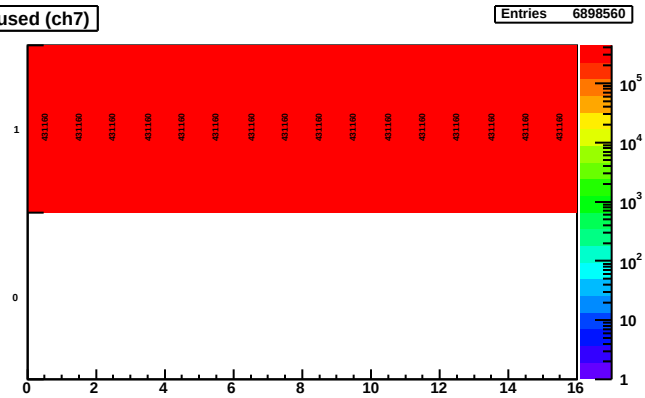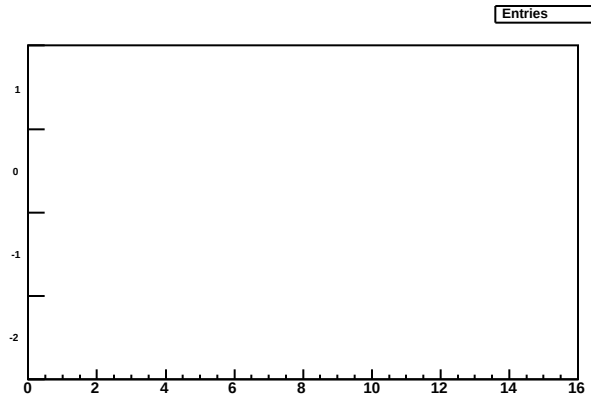
Unused (ch7)