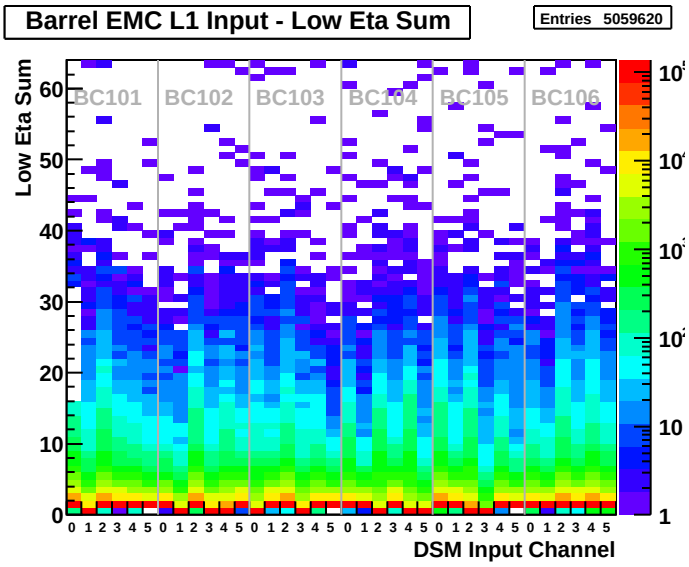
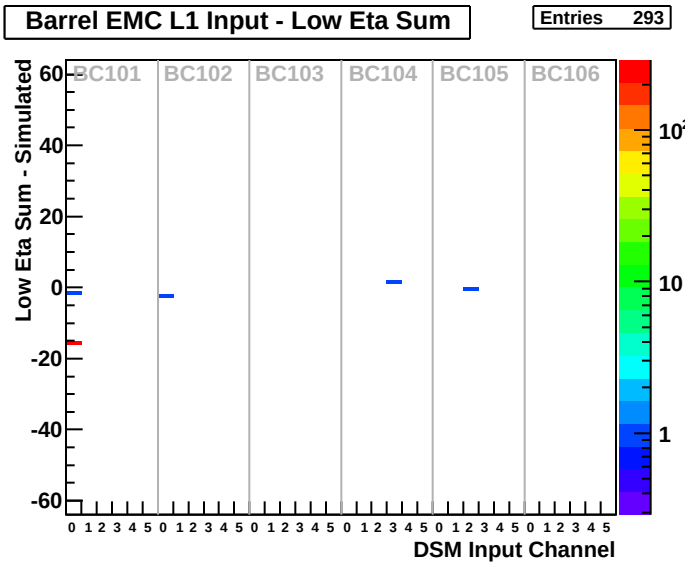
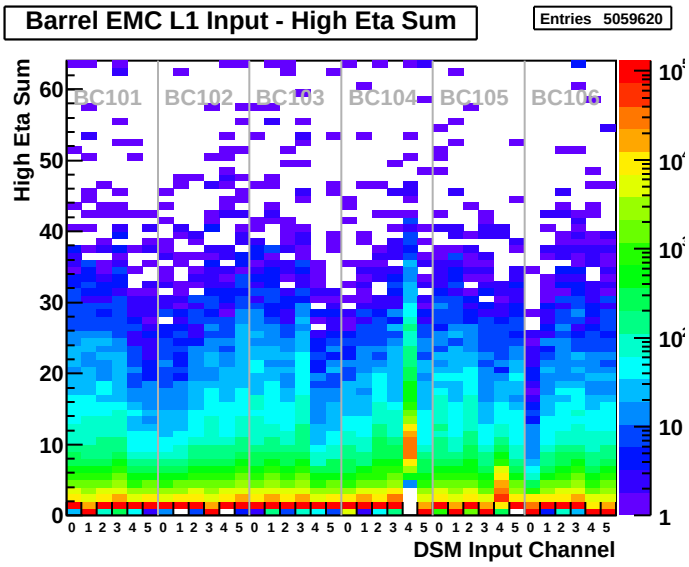
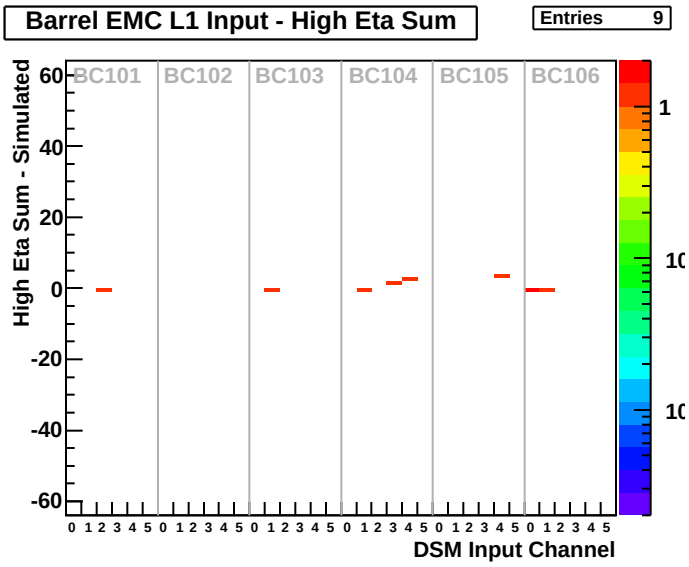
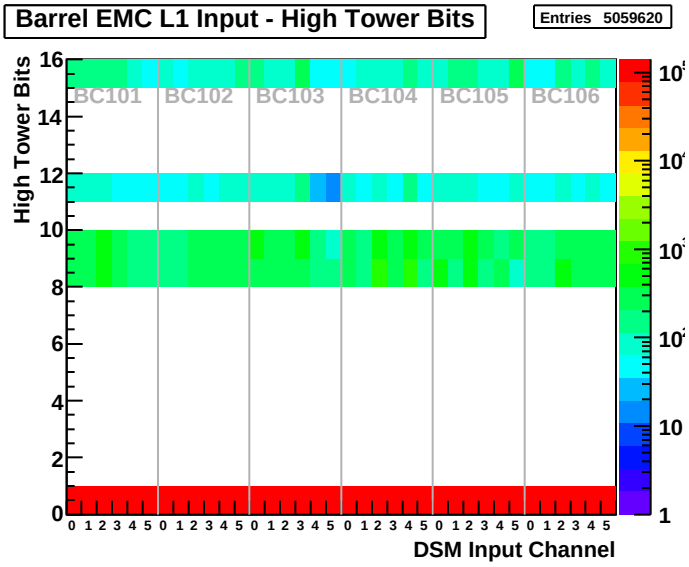
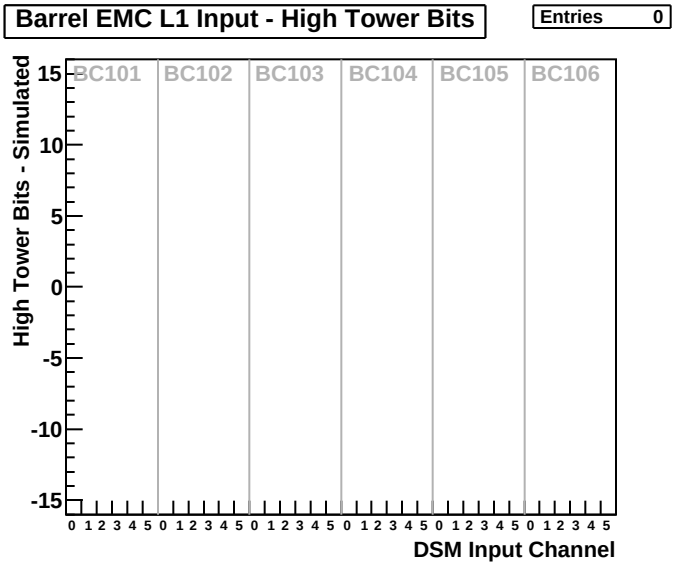

Barrel EMC L1 Input - Low Eta Sum
Entries 5059620
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

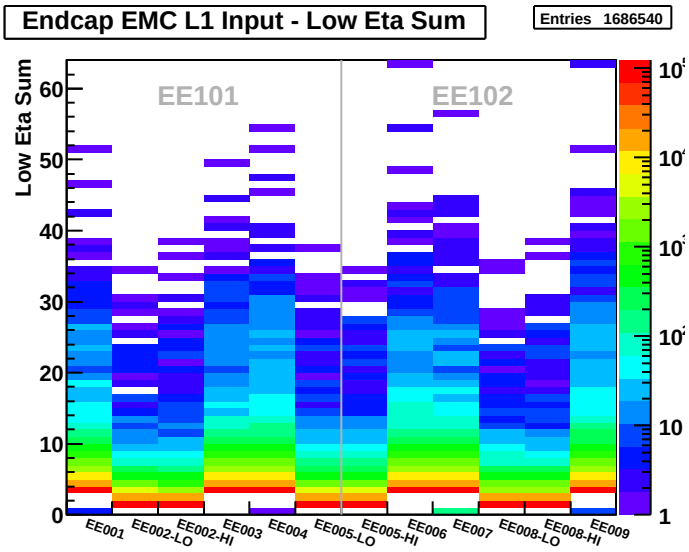

Barrel EMC L1 Input - Low Eta Sum
Entries 293
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

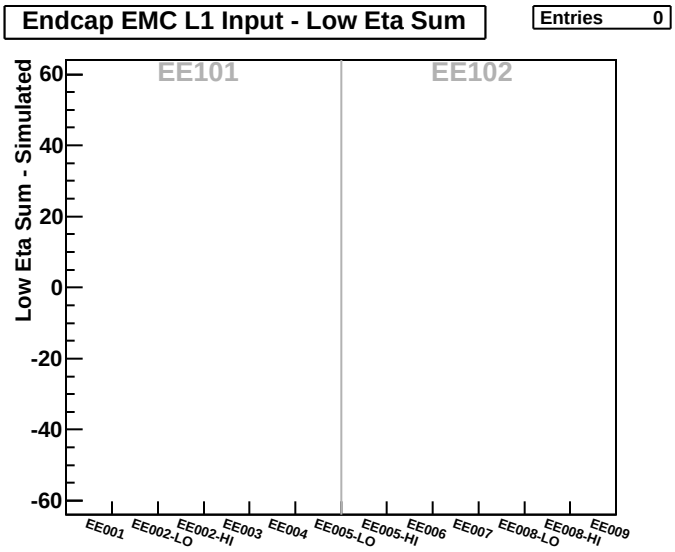

Barrel EMC L1 Input - High Eta Sum
Entries 5059620
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

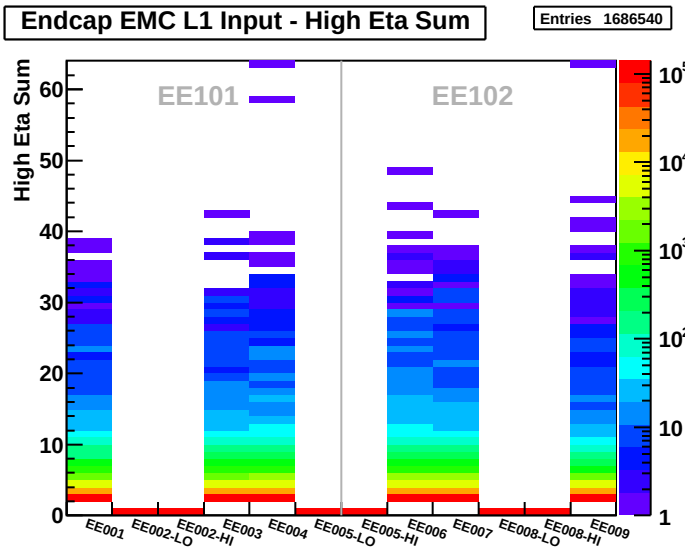

Barrel EMC L1 Input - High Eta Sum
Entries 9
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

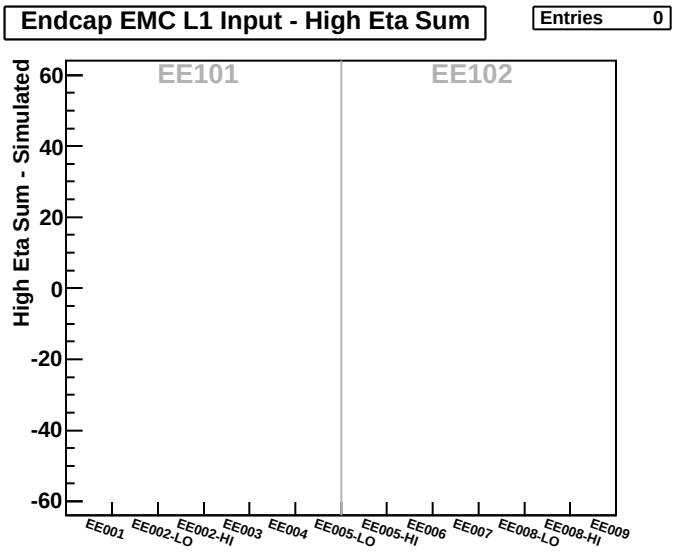

Barrel EMC L1 Input - High Tower Bits
Entries 5059620
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

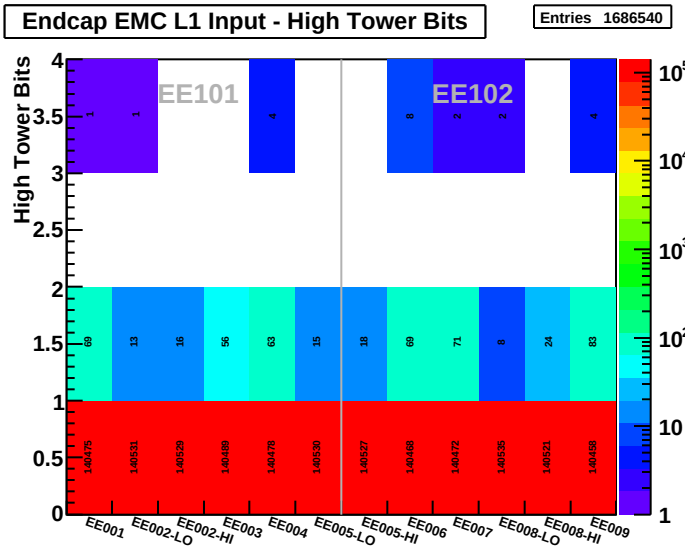

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

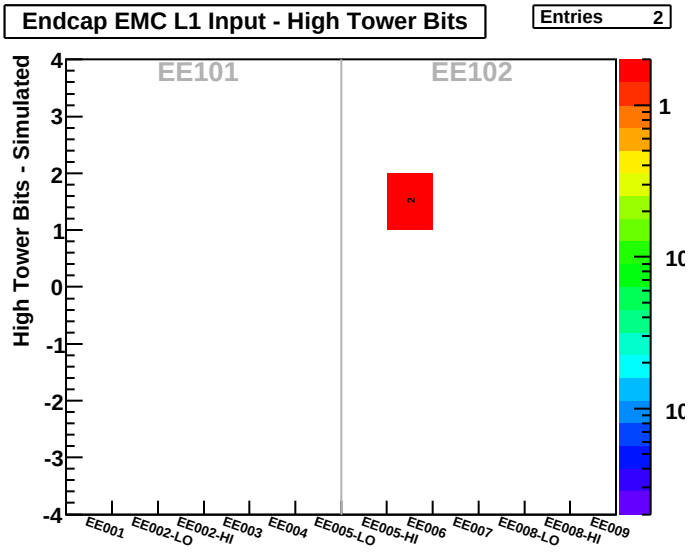

Endcap EMC L1 Input - Low Eta Sum
Entries 1686540
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

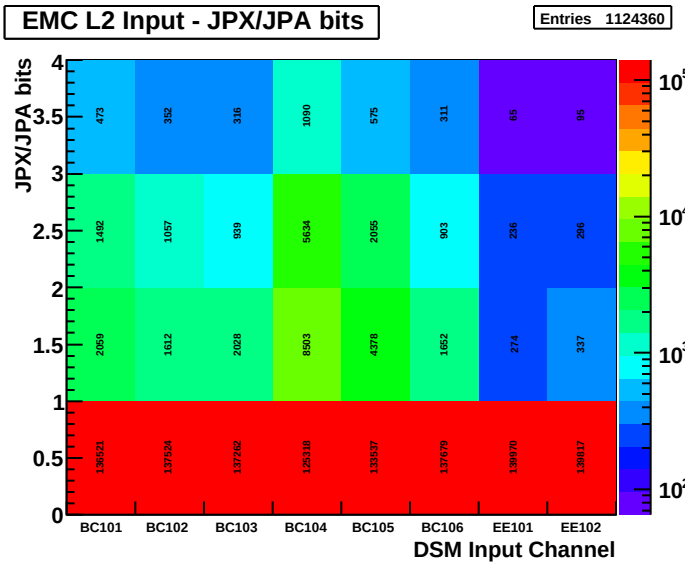

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

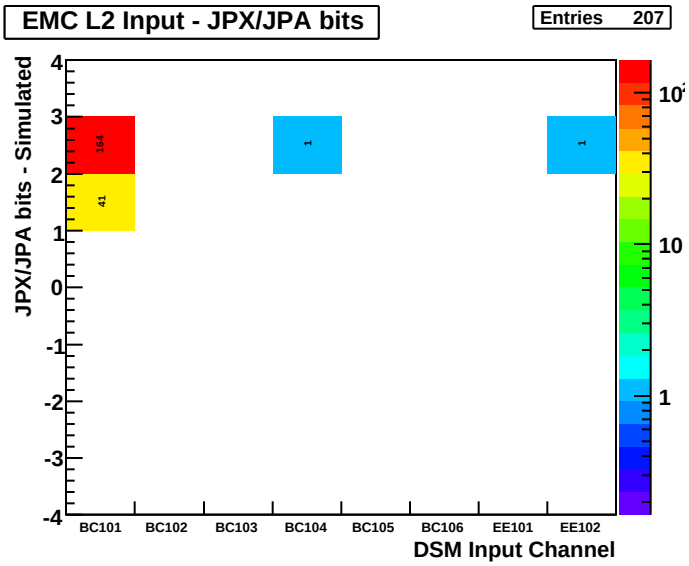

Endcap EMC L1 Input - High Eta Sum
Entries 1686540
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

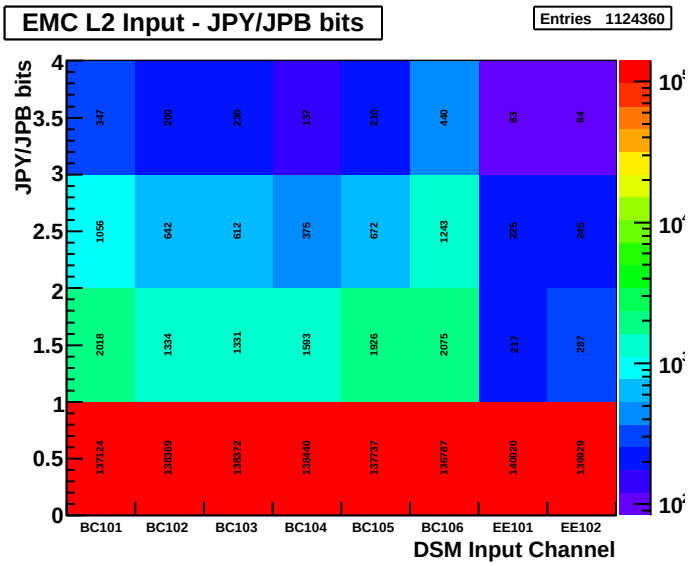

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

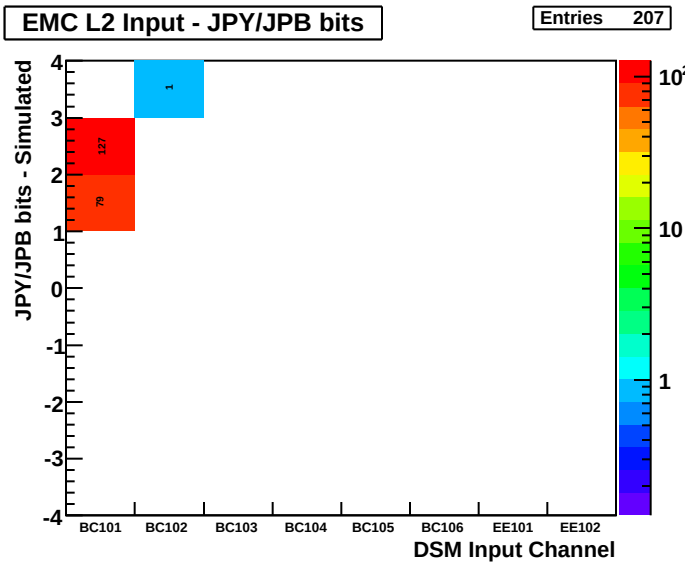

Endcap EMC L1 Input - High Tower Bits
Entries 1686540
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

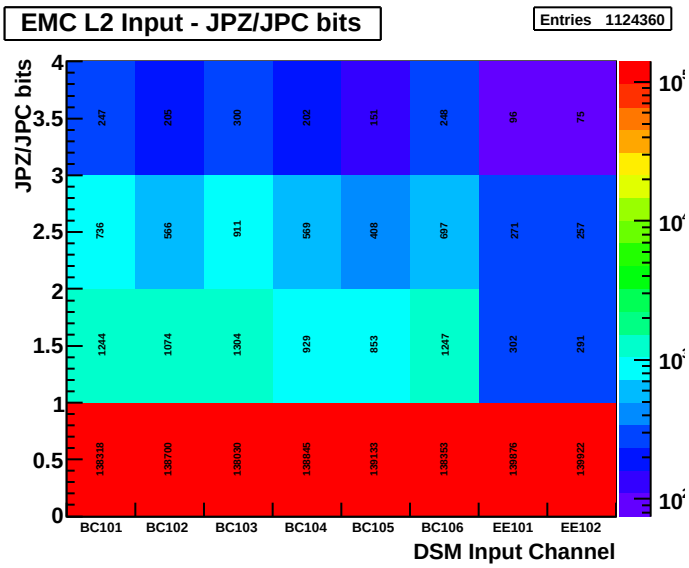

Endcap EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

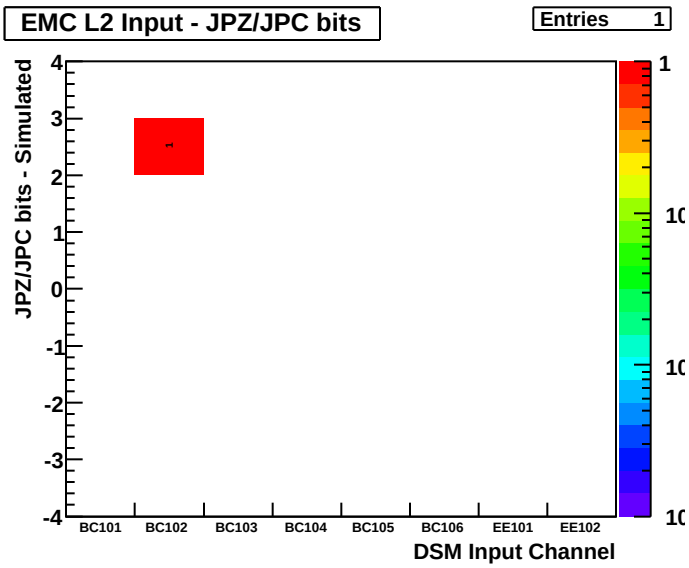

EMC L2 Input - JPX/JPA bits
Entries 1124360
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
473 352 316 1090 575 311 65 95
1492 1057 919 5634 2055 903 236 286
2069 1612 2028 8503 4378 1652 274 337
136521 137524 137262 125318 133537 137679 139970 139817

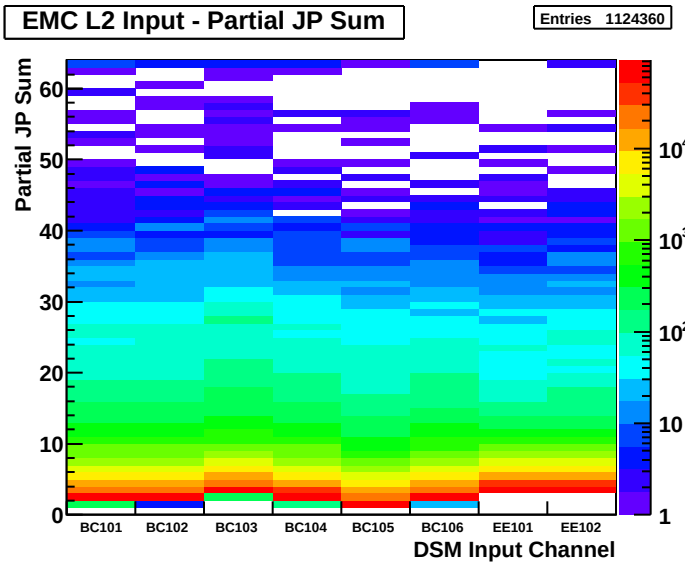

EMC L2 Input - JPX/JPA bits
Entries 207
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
164 1 1
41

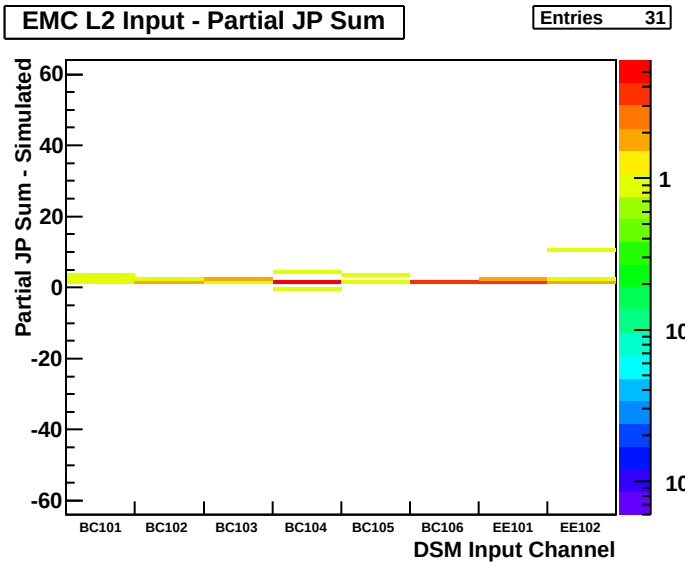

EMC L2 Input - JPY/JPB bits
Entries 1124360
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
347 200 230 137 210 440 83 84
1056 642 612 375 672 1243 225 245
2018 1334 1331 1593 1926 2075 217 287
137124 138369 138372 138440 137737 136787 140020 139929

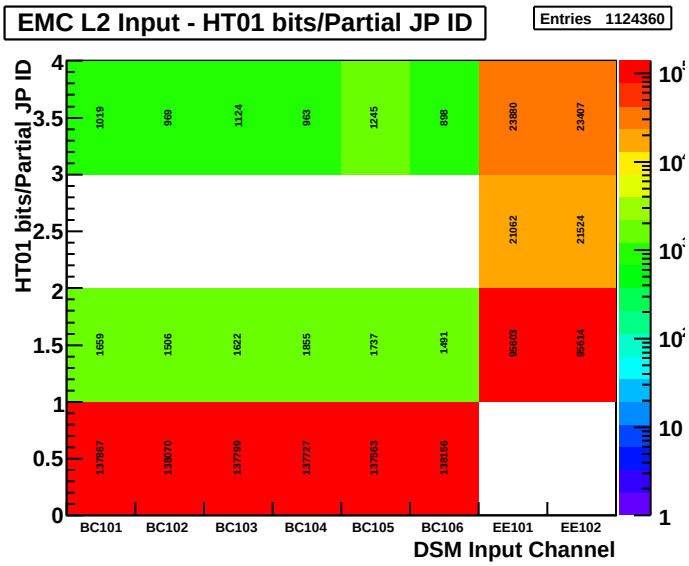

EMC L2 Input - JPY/JPB bits
Entries 207
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
127
79

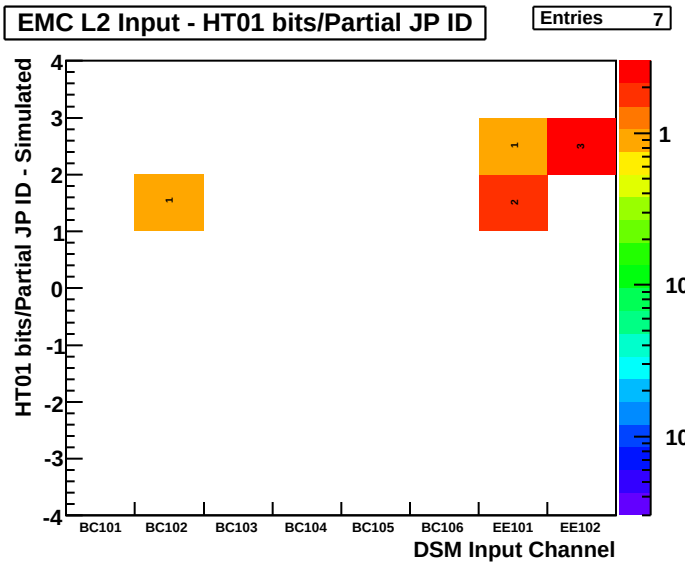

EMC L2 Input - JPZ/JPC bits
Entries 1124360
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
247 205 200 202 151 248 96 75
736 566 911 569 408 697 271 257
1244 1074 1304 929 853 1247 302 291
138318 138700 138030 138845 139133 138353 139876 139922

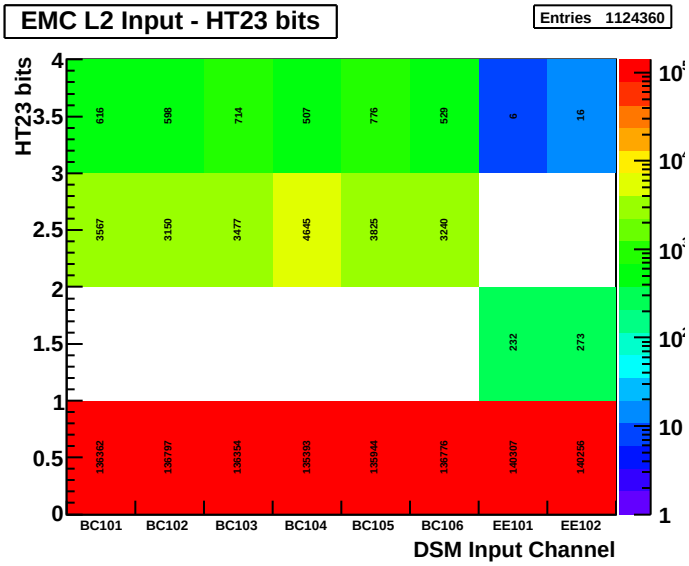

EMC L2 Input - JPZ/JPC bits
Entries 1
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

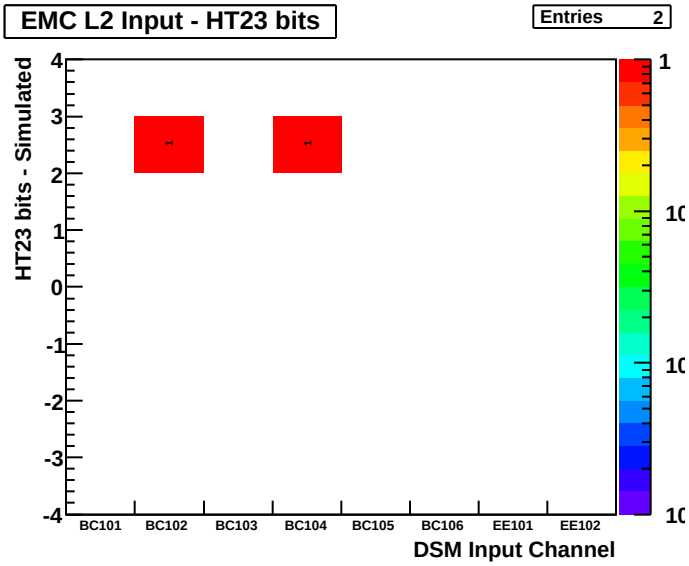

EMC L2 Input - Partial JP Sum
Entries 1124360
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

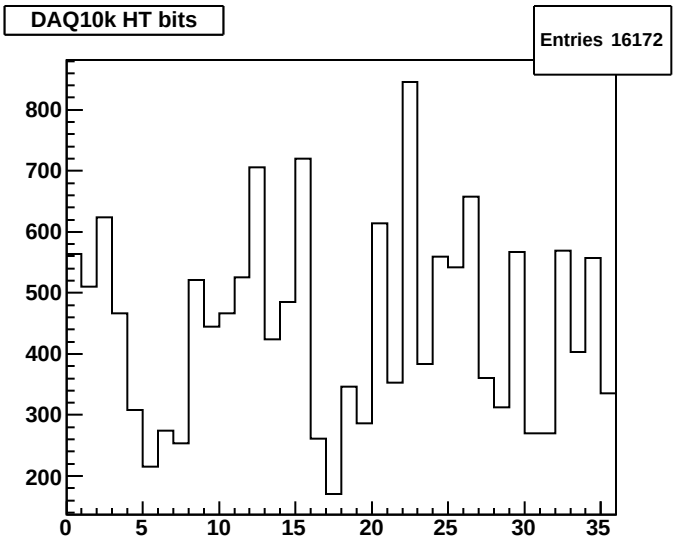

EMC L2 Input - Partial JP Sum
Entries 31
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

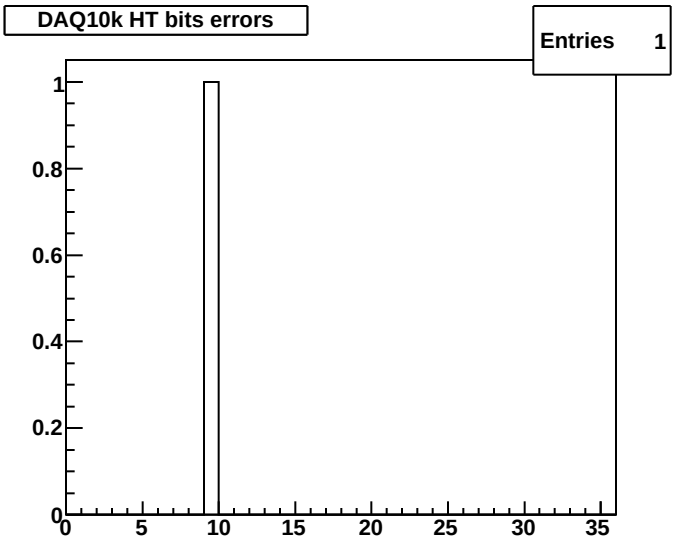

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1124360
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

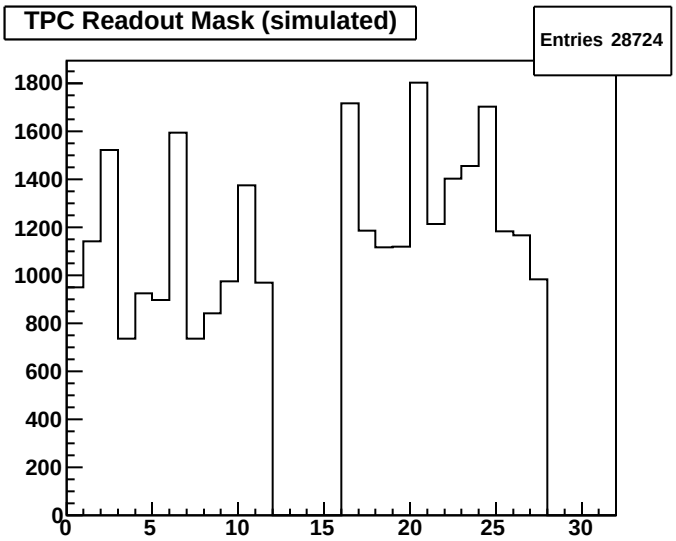

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

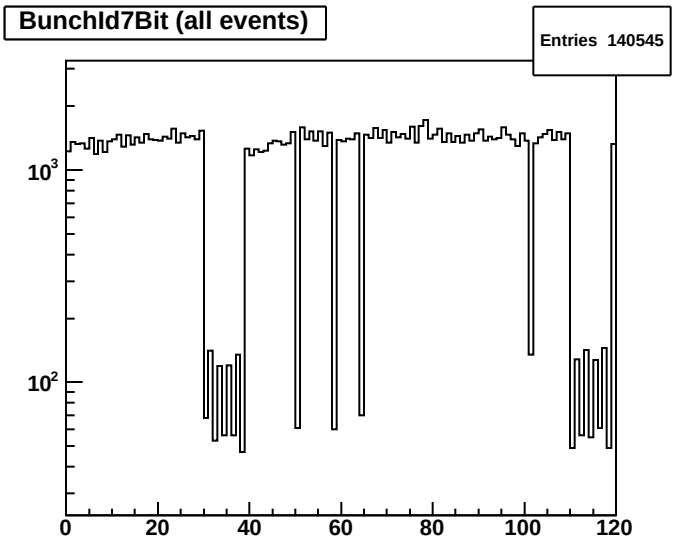

EMC L2 Input - HT23 bits
Entries 1124360
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

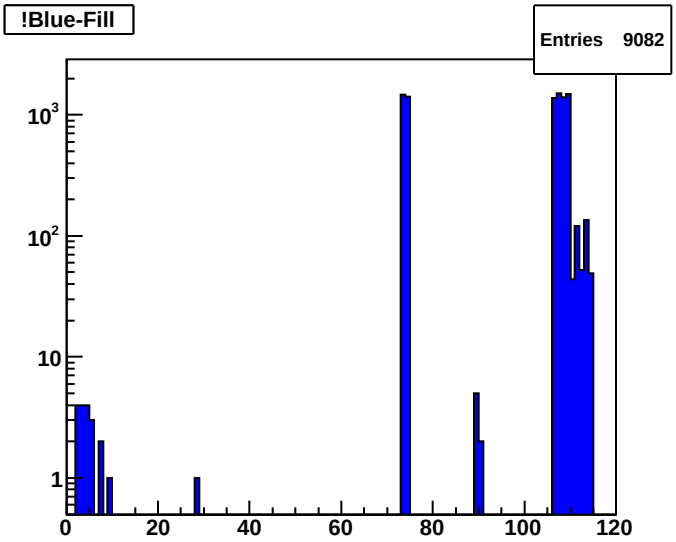

EMC L2 Input - HT23 bits
Entries 2
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

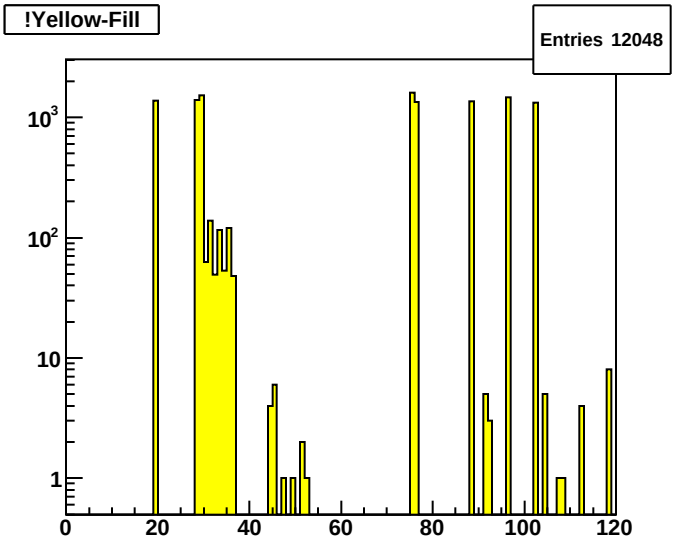

DAQ10k HT bits
Entries 16172

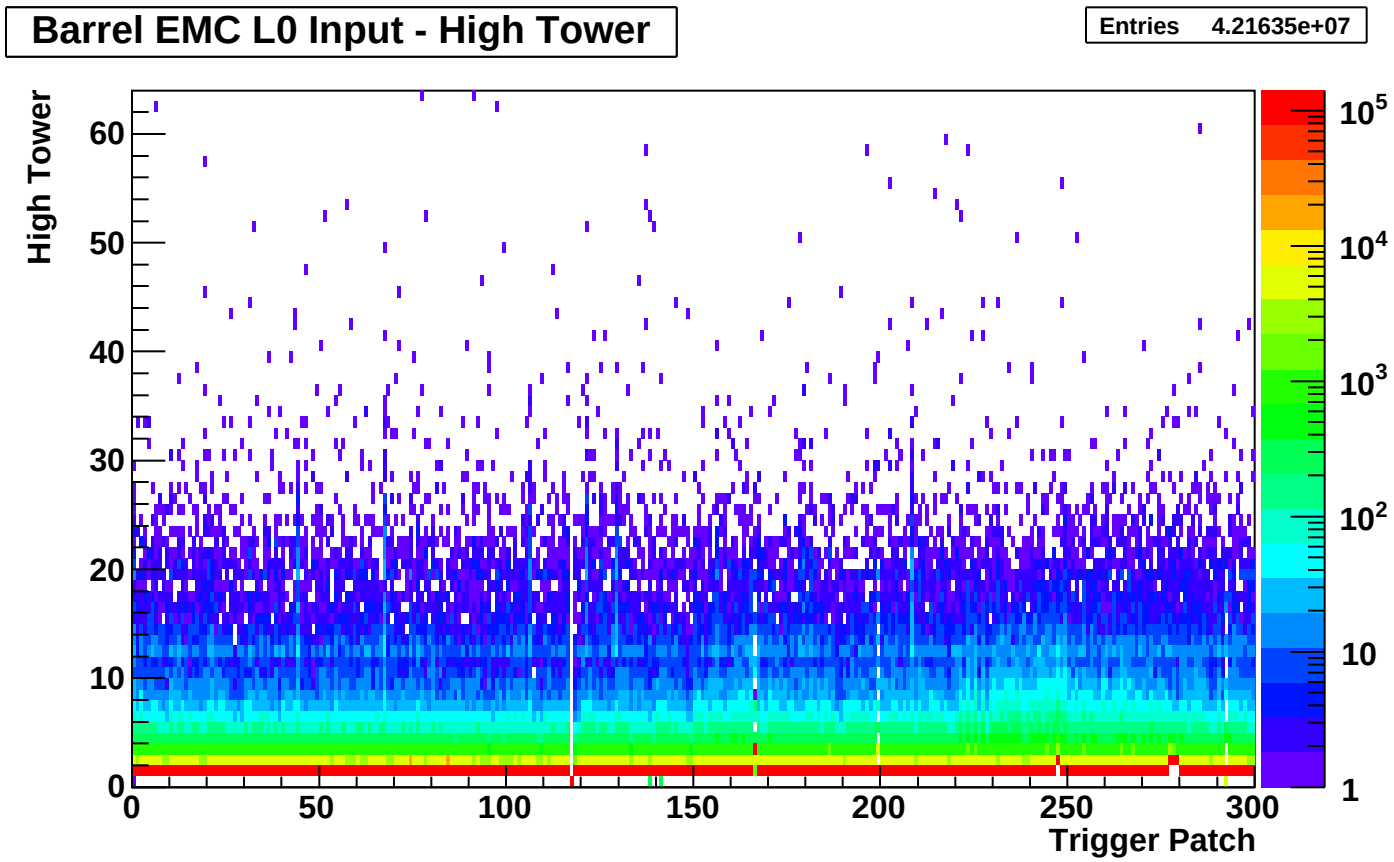

DAQ10k HT bits errors
Entries 1

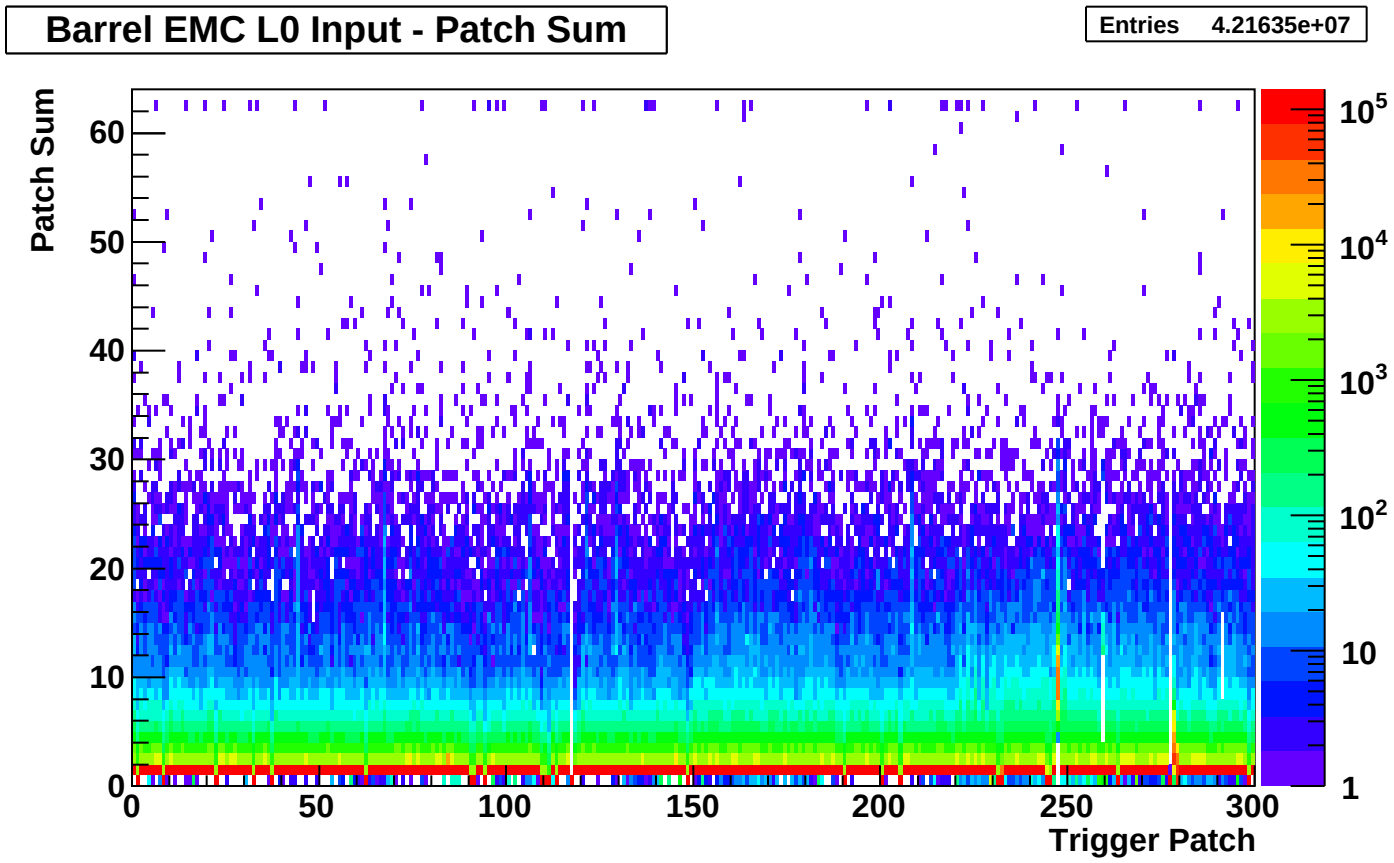

TPC Readout Mask (simulated)
Entries 28724

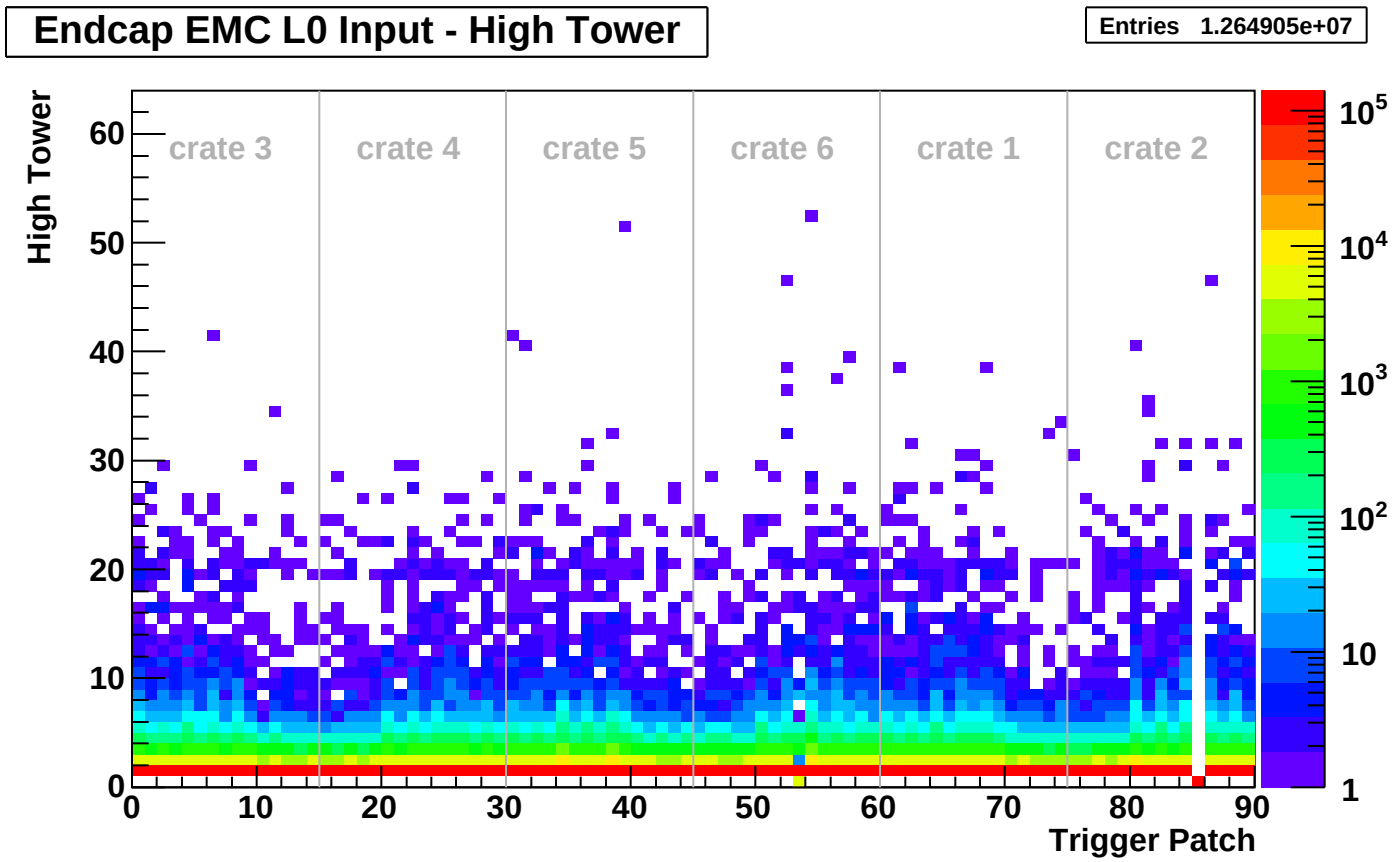

BunchId7Bit (all events)
Entries 140545

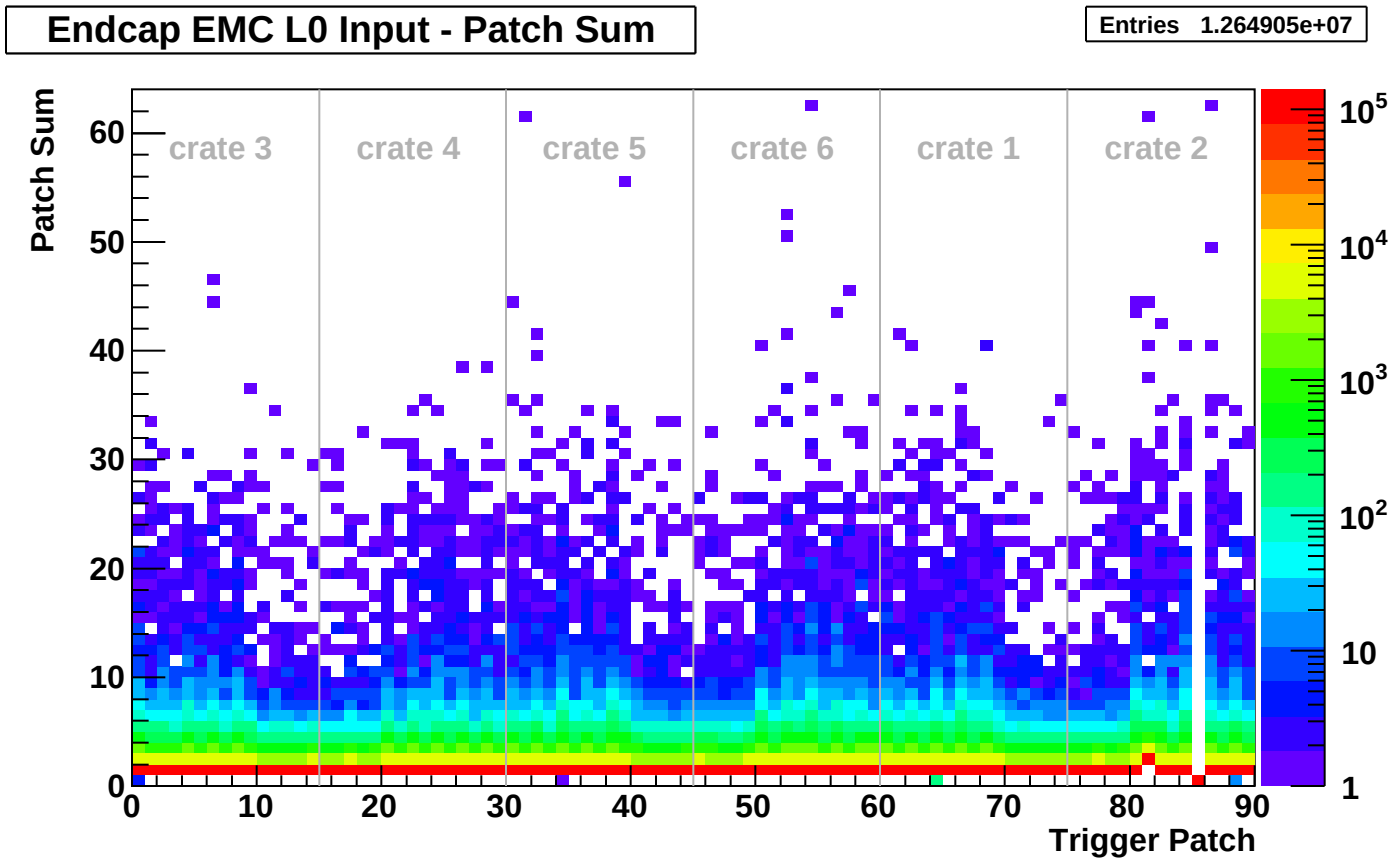

!Blue-Fill
Entries 9082

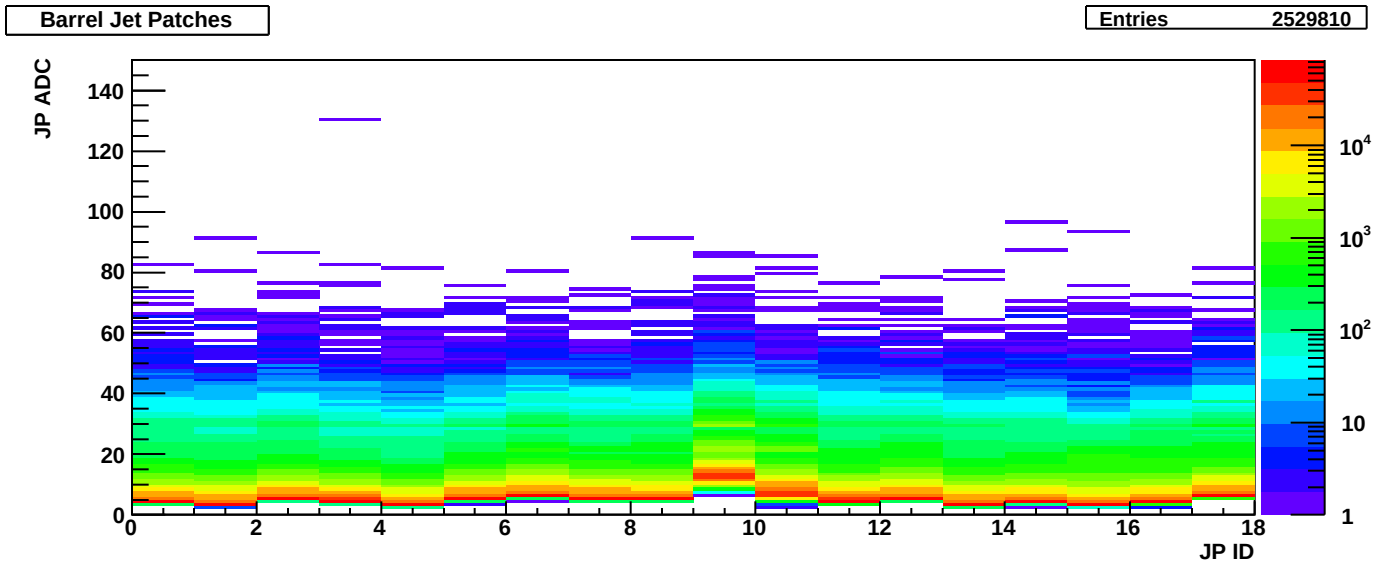

!Yellow-Fill
Entries 12048

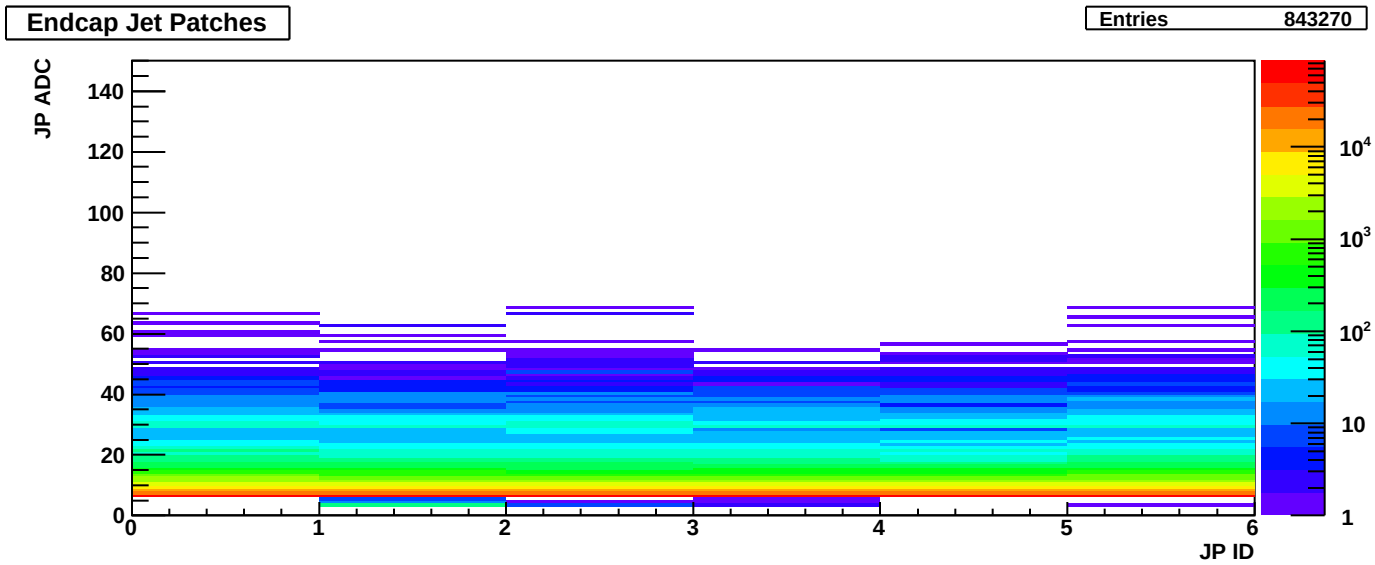

Barrel EMC L0 Input - High Tower
Entries 4.21635e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

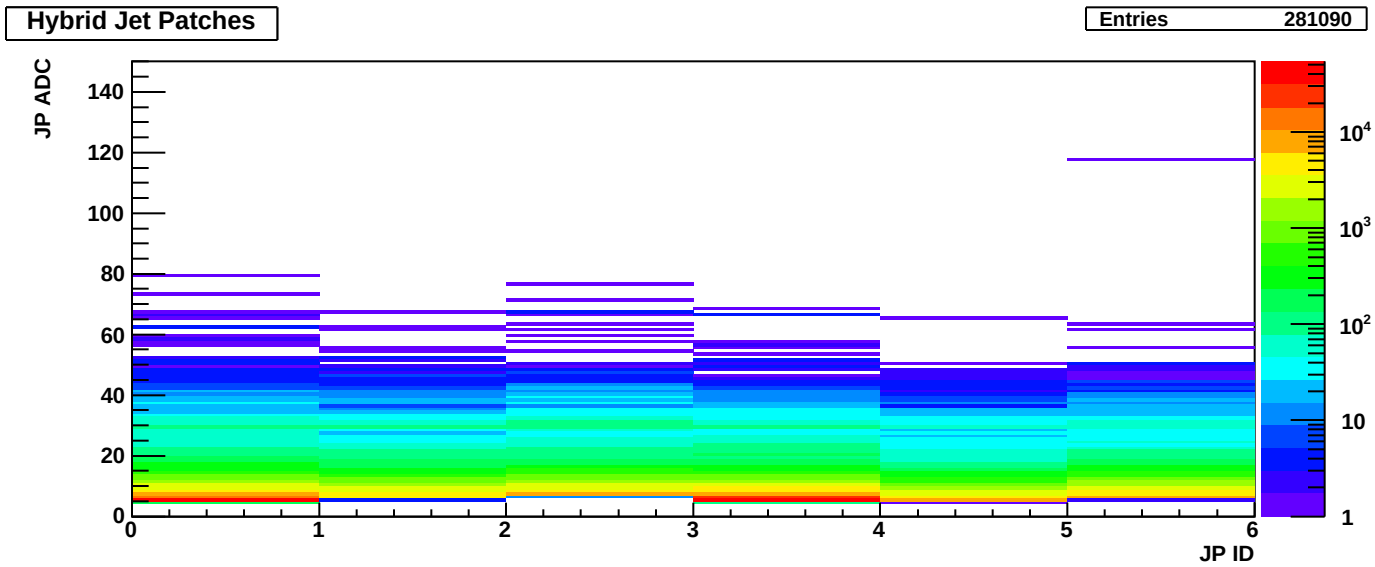

Barrel EMC L0 Input - Patch Sum
Entries 4.21635e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

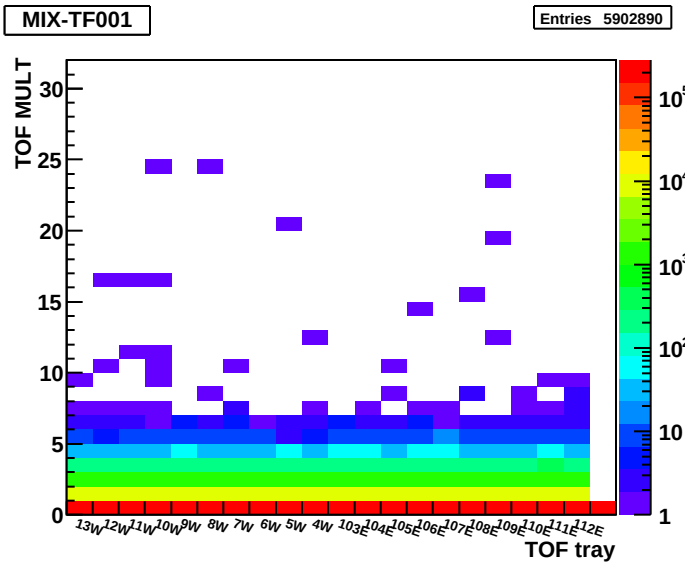

Endcap EMC L0 Input - High Tower
Entries 1.264905e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

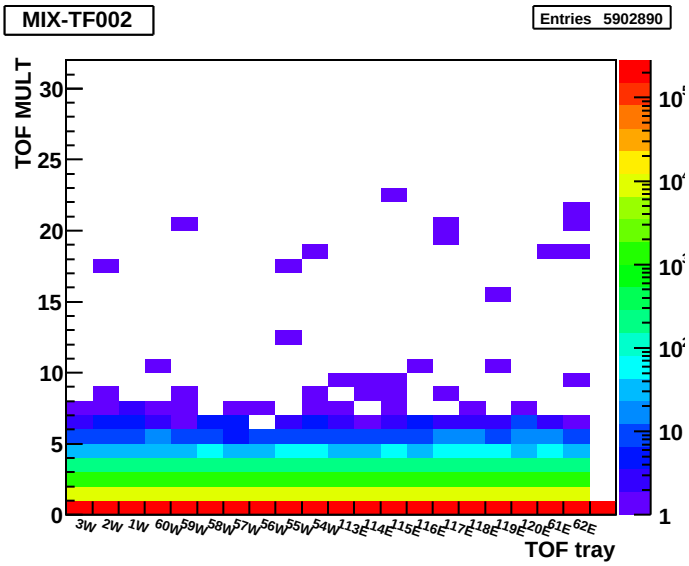

Endcap EMC L0 Input - Patch Sum
Entries 1.264905e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

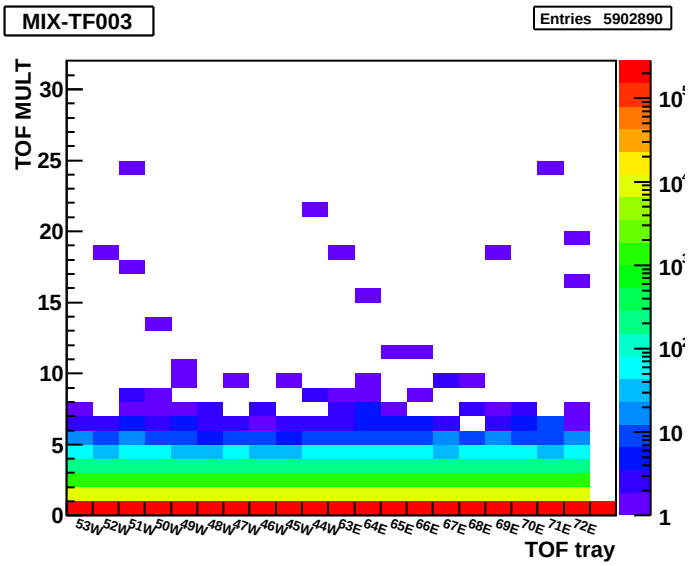

Barrel Jet Patches
Entries 2529810
JP ADC
JP ID

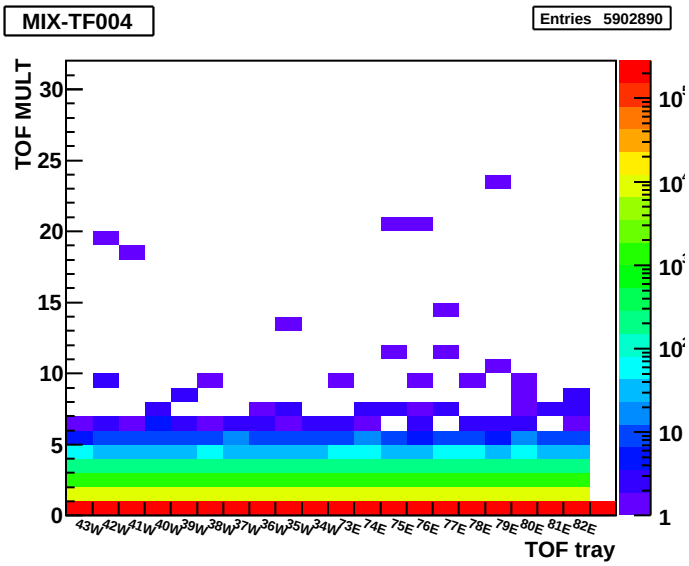

Endcap Jet Patches
Entries 843270
JP ADC
JP ID

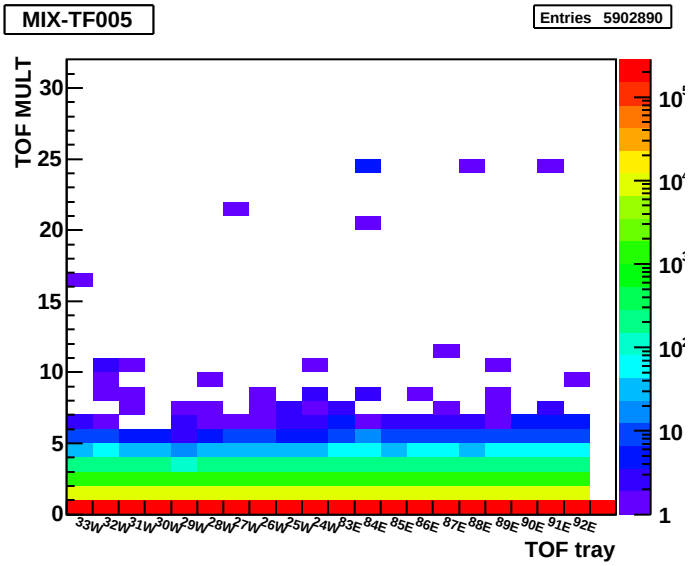

Hybrid Jet Patches
Entries 281090
JP ADC
JP ID

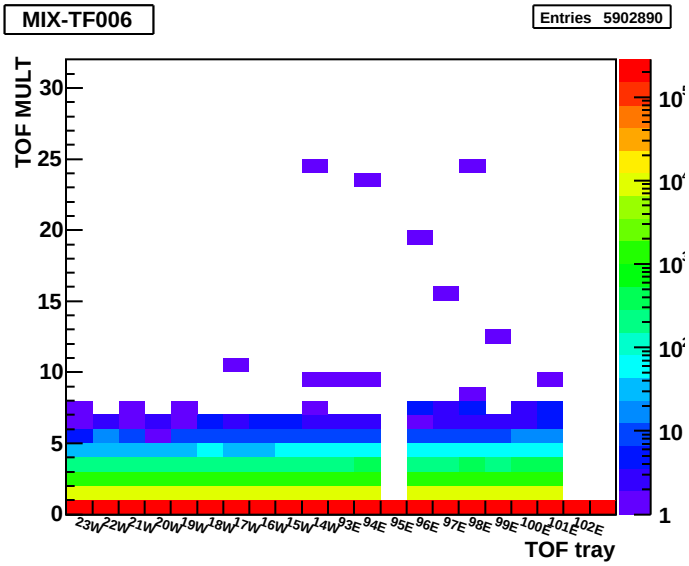

MIX-TF001
Entries 5902890
TOF MULT
TOF tray

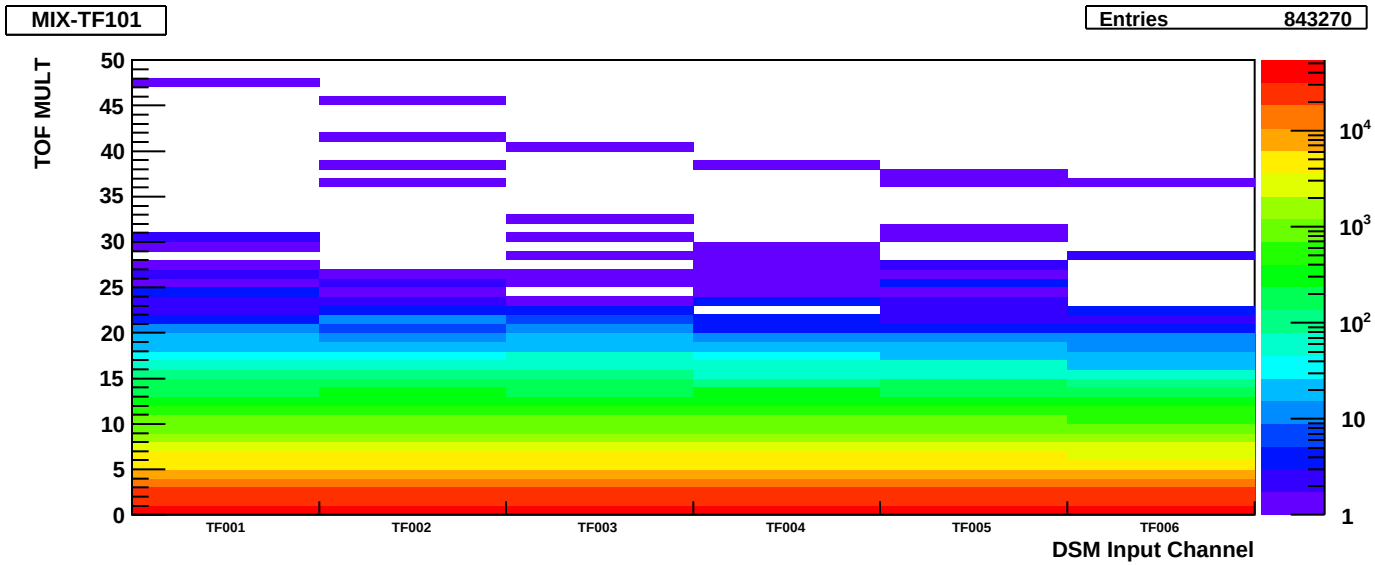

MIX-TF002
Entries 5902890
TOF MULT
TOF tray

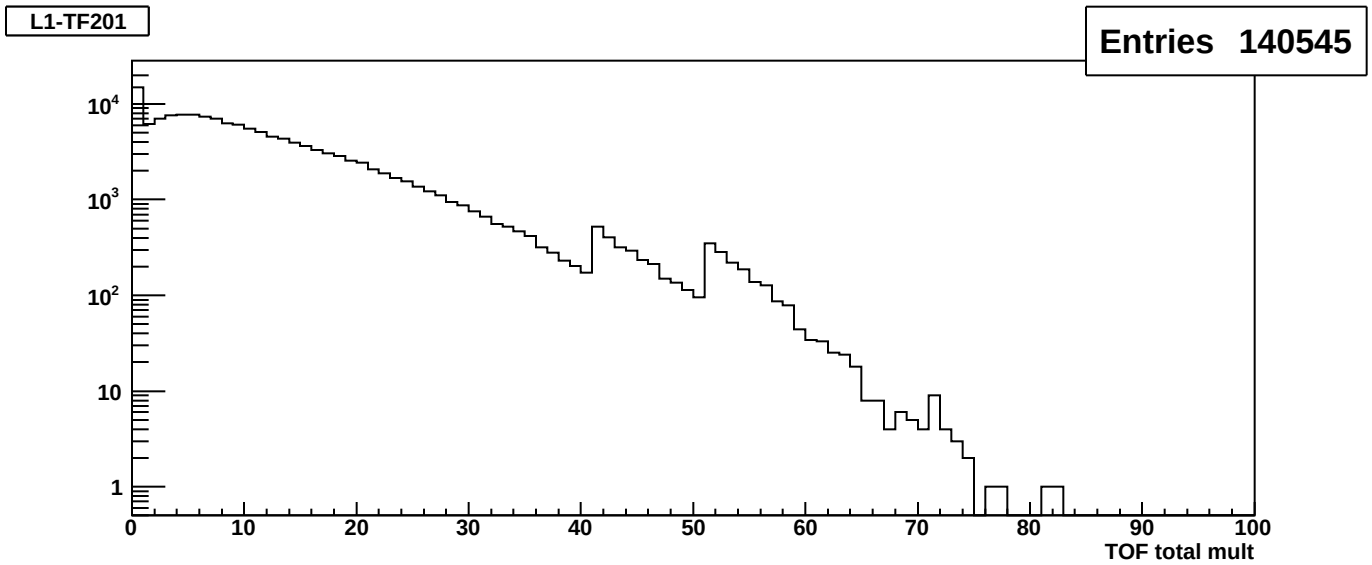

MIX-TF003
Entries 5902890
TOF MULT
TOF tray

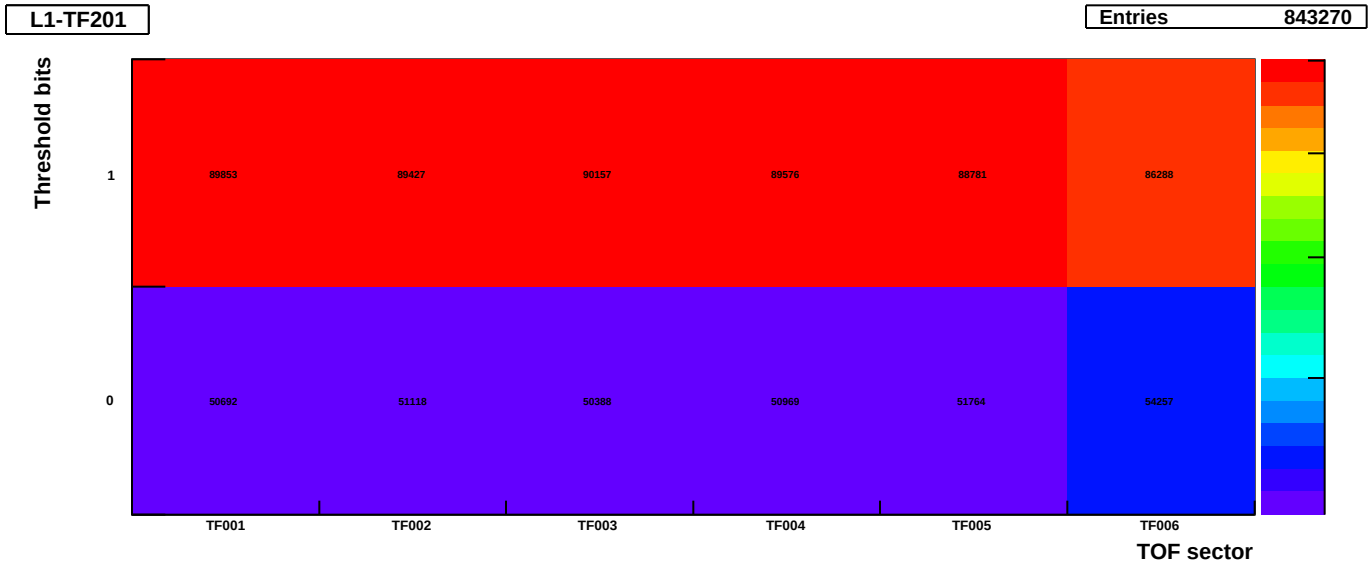

MIX-TF004
Entries 5902890
TOF MULT
TOF tray


MIX-TF005
Entries 5902890
TOF MULT
TOF tray


MIX-TF006
Entries 5902890
TOF MULT
TOF tray


MIX-TF101
Entries 843270
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006


L1-TF201
Entries 140545
TOF total mult


L1-TF201
Entries 843270
Threshold bits
89853
89427
90157
89576
88781
86288
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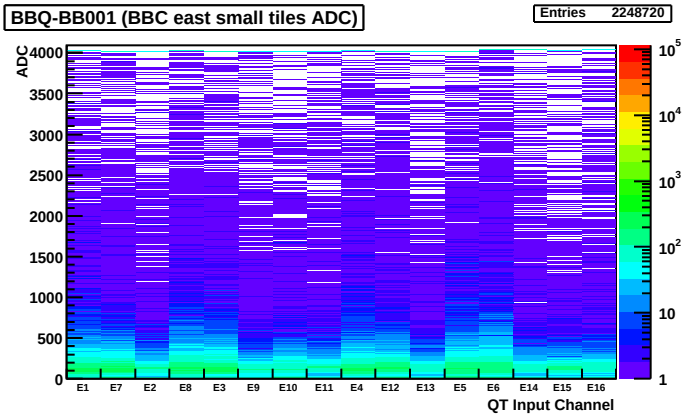
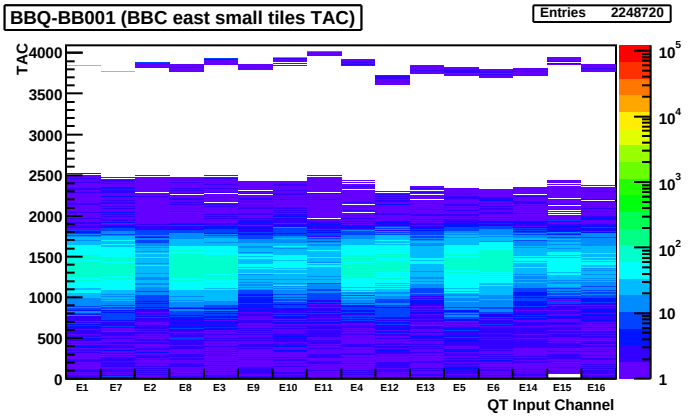
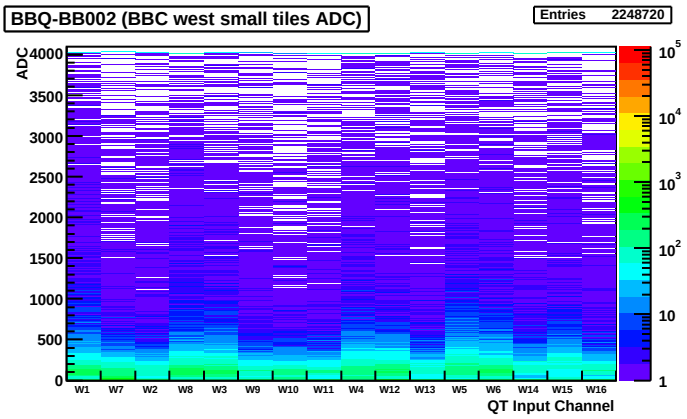
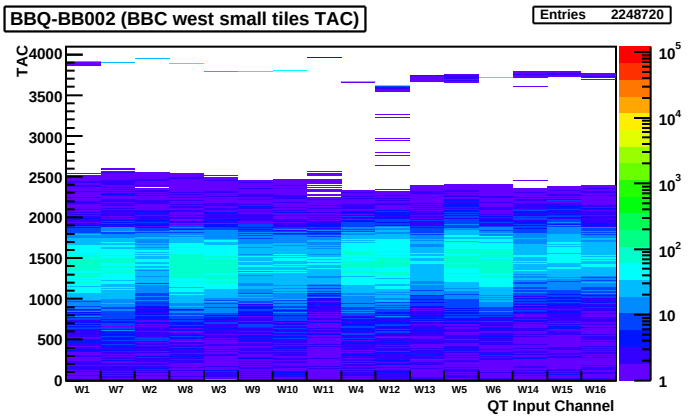
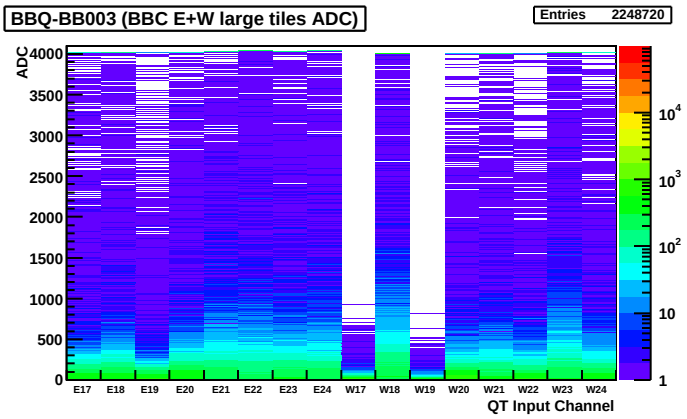
51118
50388
50969
51764
54257
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

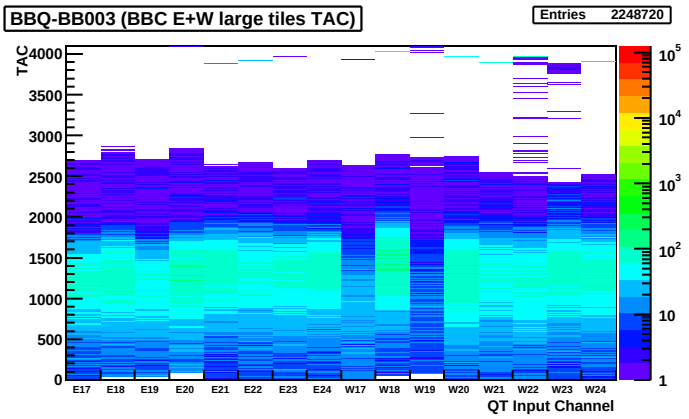

BBQ-BB001 (BBC east small tiles ADC)
Entries 2248720
ADC
QT Input Channel

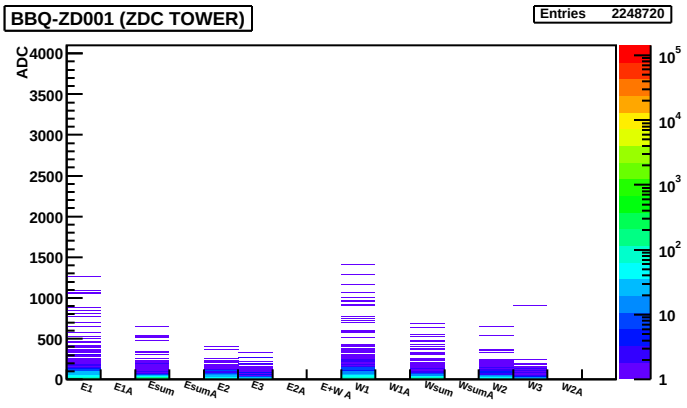

BBQ-BB001 (BBC east small tiles TAC)
Entries 2248720
TAC
QT Input Channel

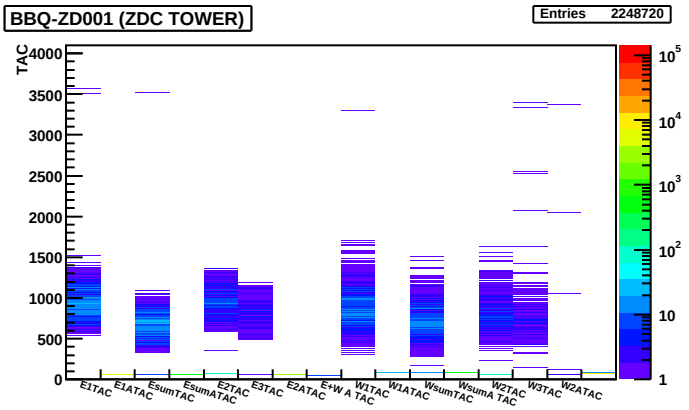

BBQ-BB002 (BBC west small tiles ADC)
Entries 2248720
ADC
QT Input Channel

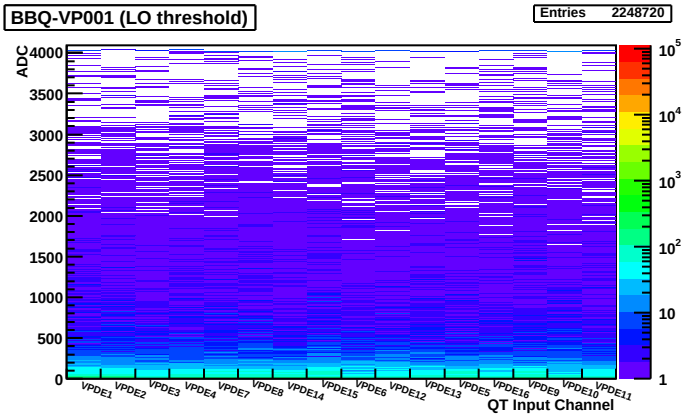

BBQ-BB002 (BBC west small tiles TAC)
Entries 2248720
TAC
QT Input Channel

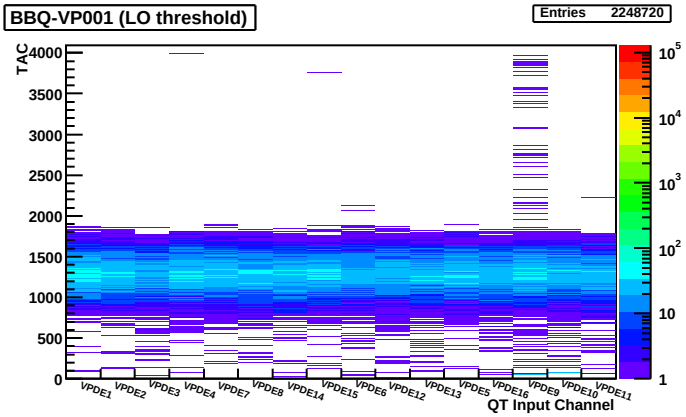

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2248720
ADC
QT Input Channel

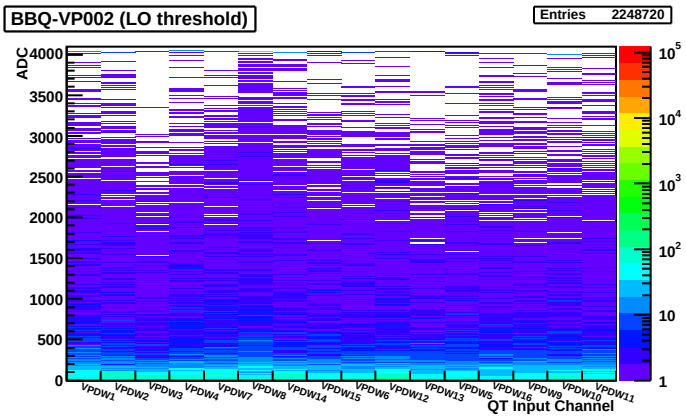

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2248720
TAC
QT Input Channel

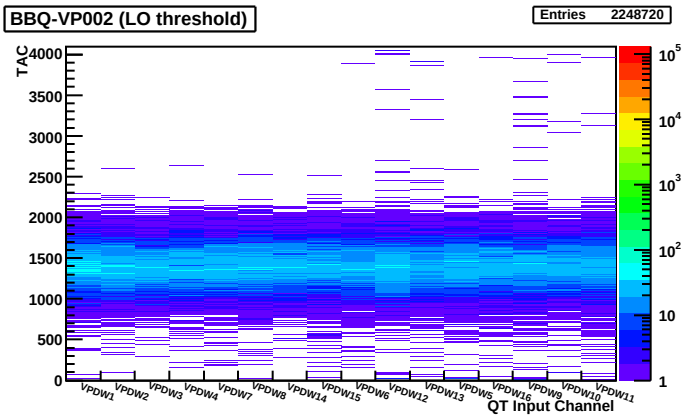

BBQ-ZD001 (ZDC TOWER)
Entries 2248720
ADC

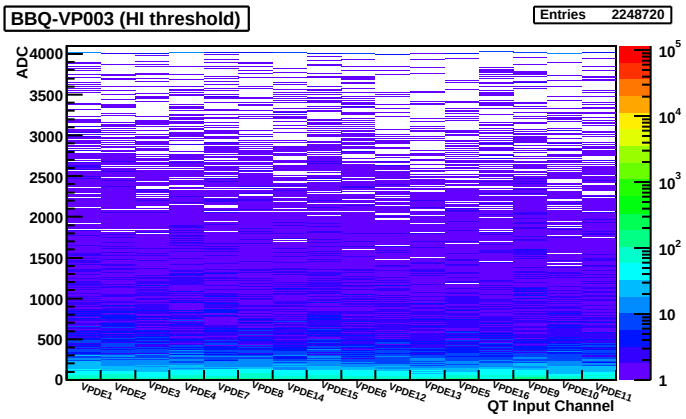

BBQ-ZD001 (ZDC TOWER)
Entries 2248720
TAC

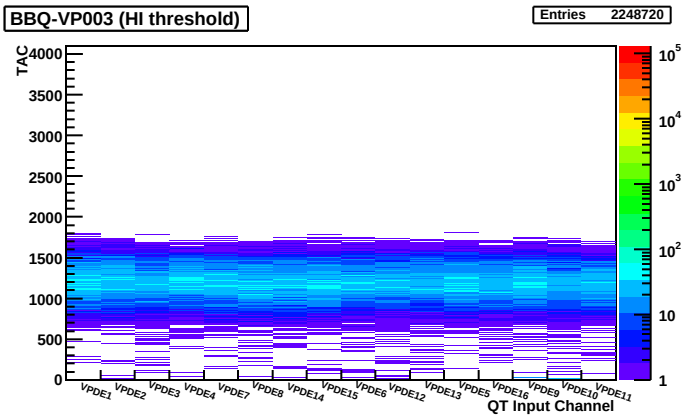

BBQ-VP001 (LO threshold)
Entries 2248720
ADC
QT Input Channel

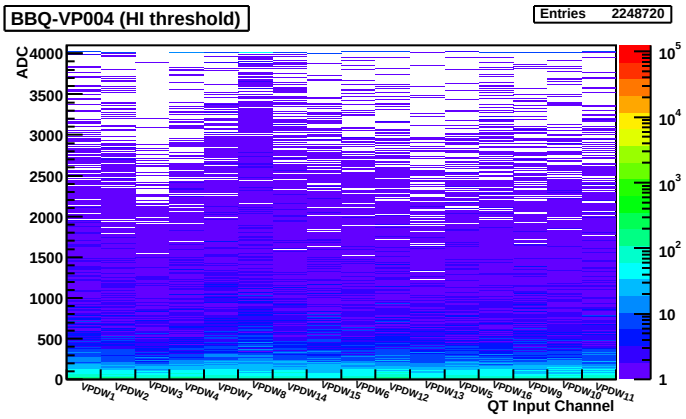

BBQ-VP001 (LO threshold)
Entries 2248720
TAC
QT Input Channel

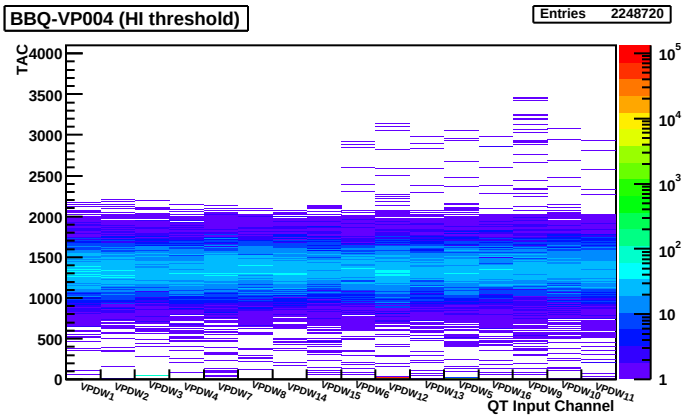

BBQ-VP002 (LO threshold)
Entries 2248720
ADC
QT Input Channel

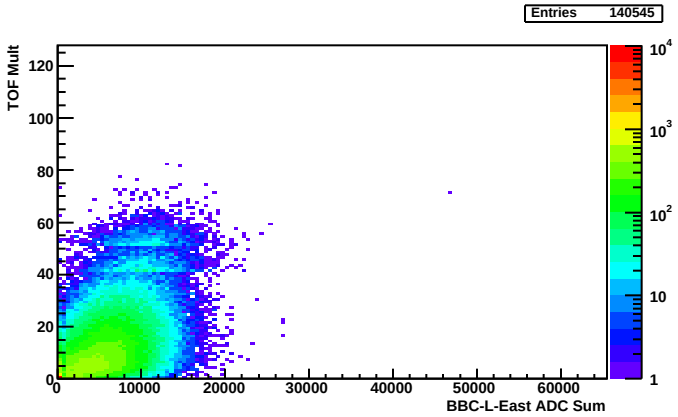

BBQ-VP002 (LO threshold)
Entries 2248720
TAC
QT Input Channel

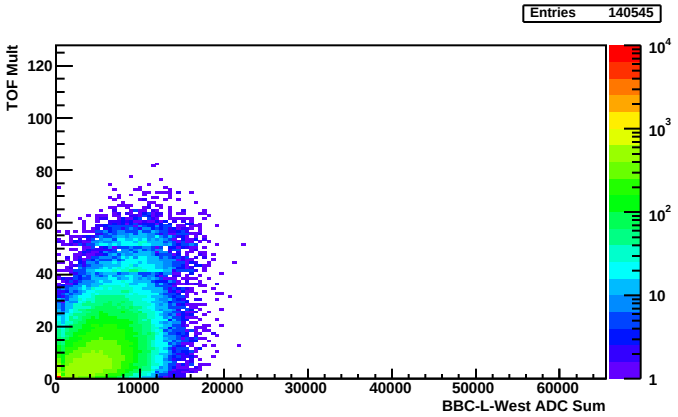

BBQ-VP003 (HI threshold)
Entries 2248720
ADC
QT Input Channel

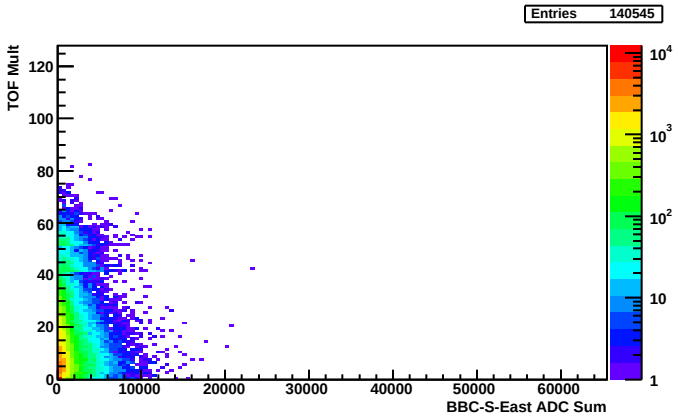

BBQ-VP003 (HI threshold)
Entries 2248720
TAC
QT Input Channel

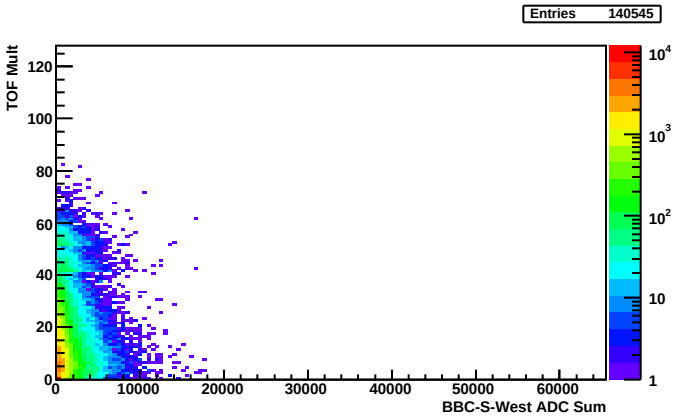

BBQ-VP004 (HI threshold)
Entries 2248720
ADC
QT Input Channel

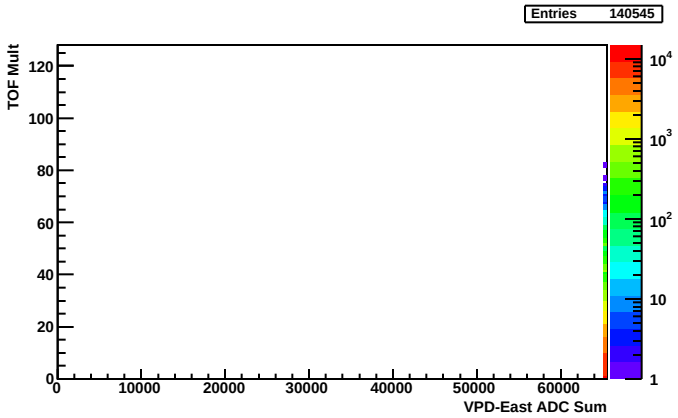

BBQ-VP004 (HI threshold)
Entries 2248720
TAC
QT Input Channel

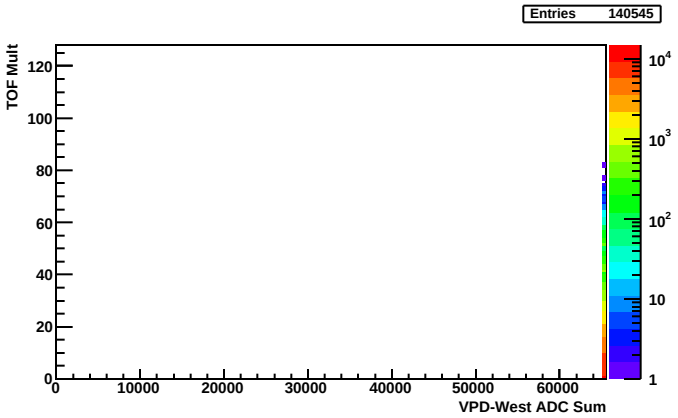

Entries 140545
TOF Mult
BBC-L-East ADC Sum

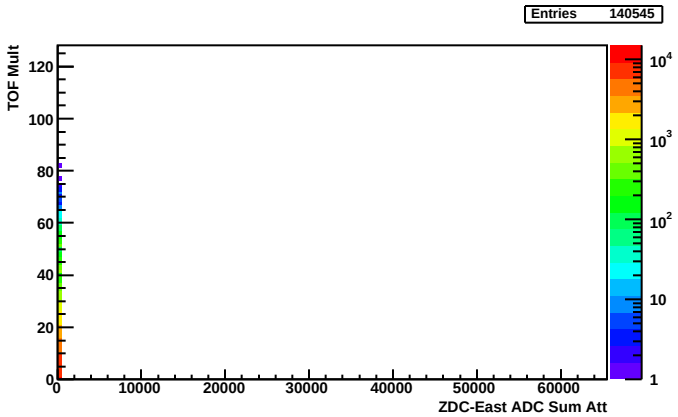

Entries 140545
TOF Mult
BBC-L-West ADC Sum

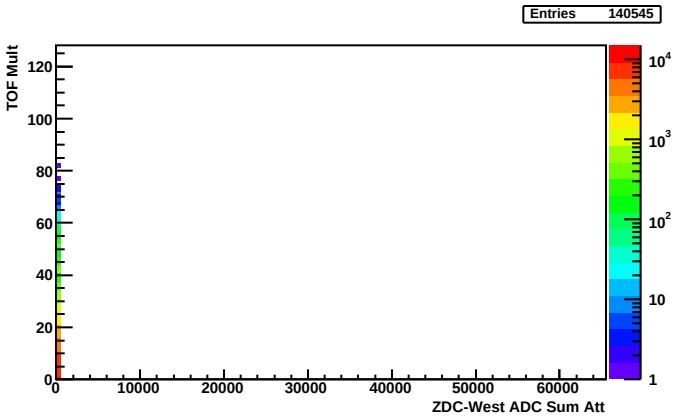

Entries 140545
TOF Mult
BBC-S-East ADC Sum

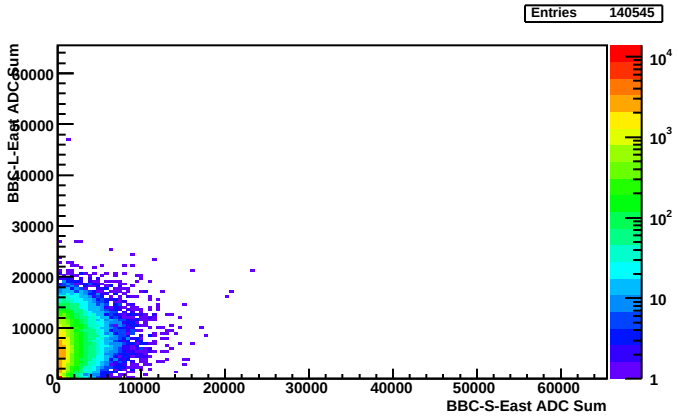

Entries 140545
TOF Mult
BBC-S-West ADC Sum


Entries 140545
TOF Mult
VPD-East ADC Sum


Entries 140545
TOF Mult
VPD-West ADC Sum


Entries 140545
TOF Mult
ZDC-East ADC Sum Att


Entries 140545
TOF Mult
ZDC-West ADC Sum Att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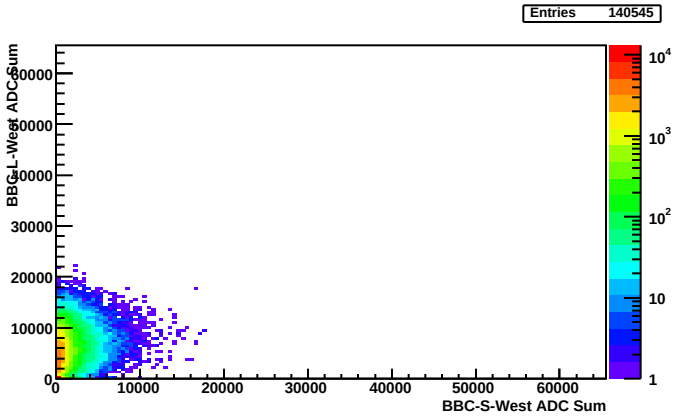
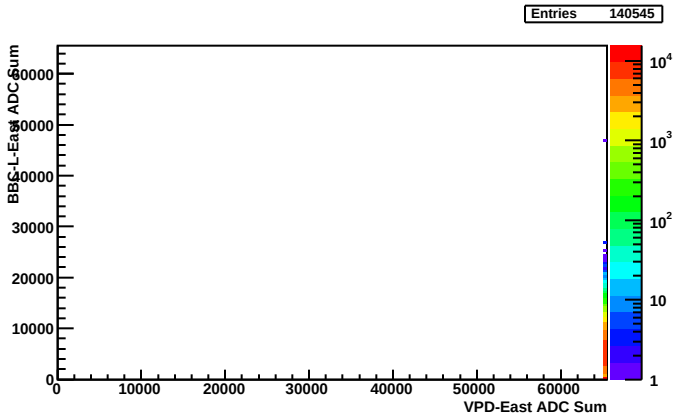
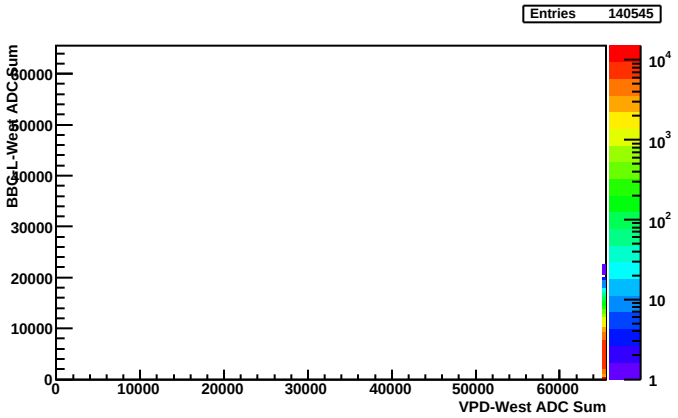
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 140545
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 140545
BBC-L-East ADC Sum
VPD-East ADC Sum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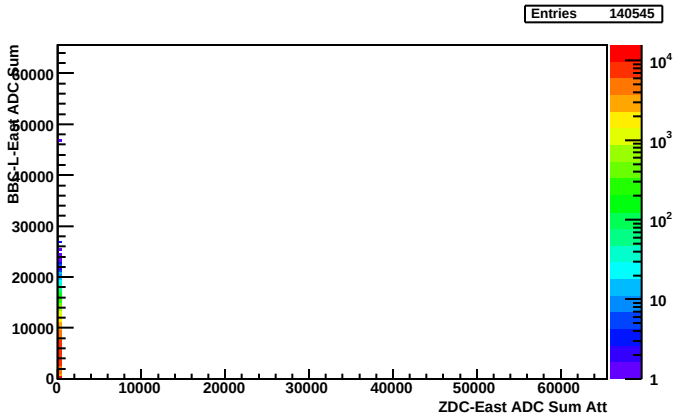
BBC-L-West ADC Sum
VPD-West ADC Sum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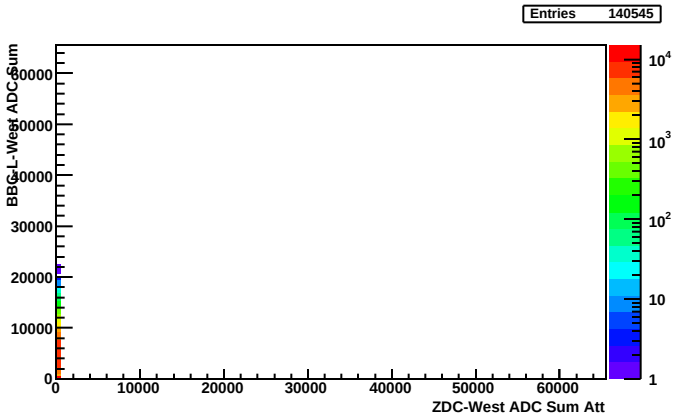
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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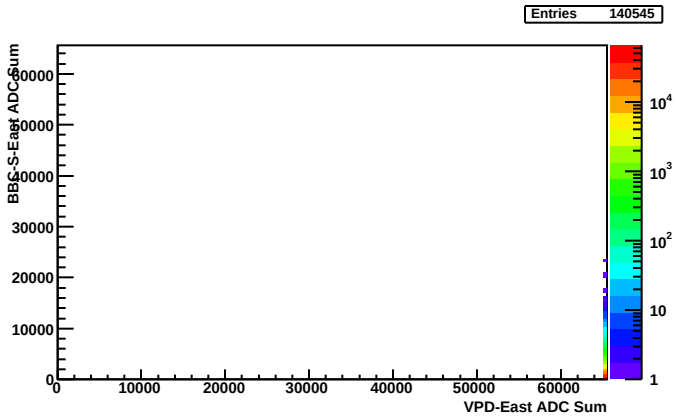
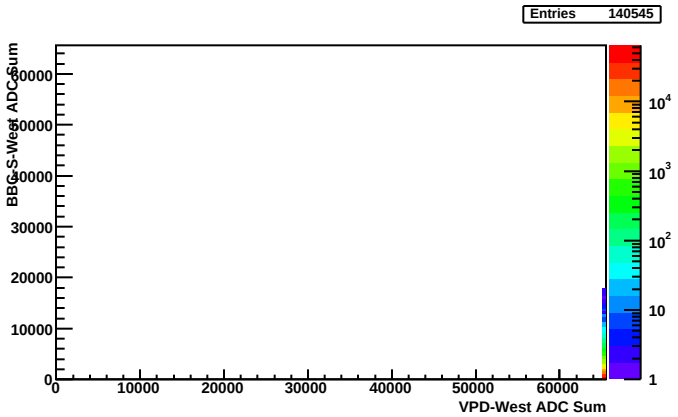
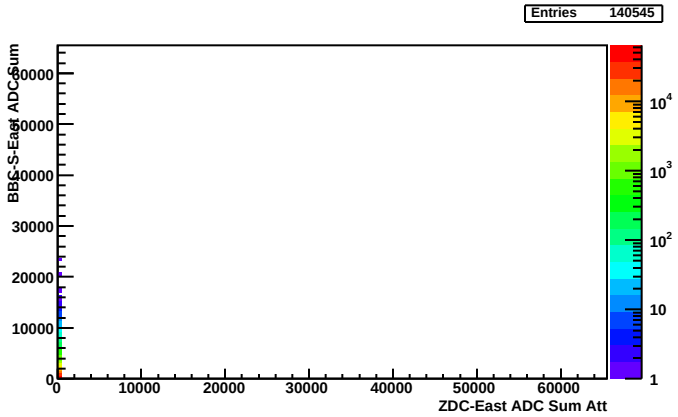
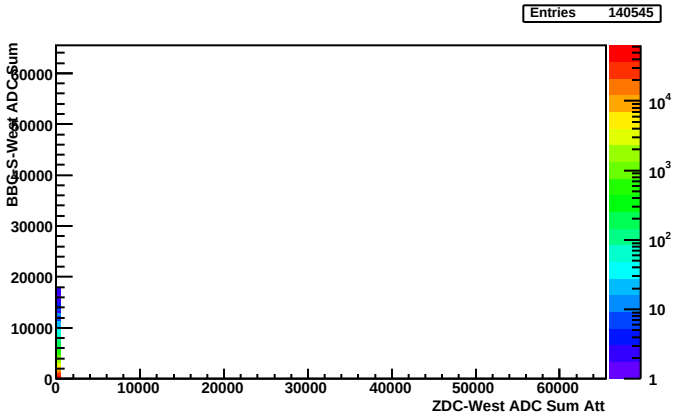
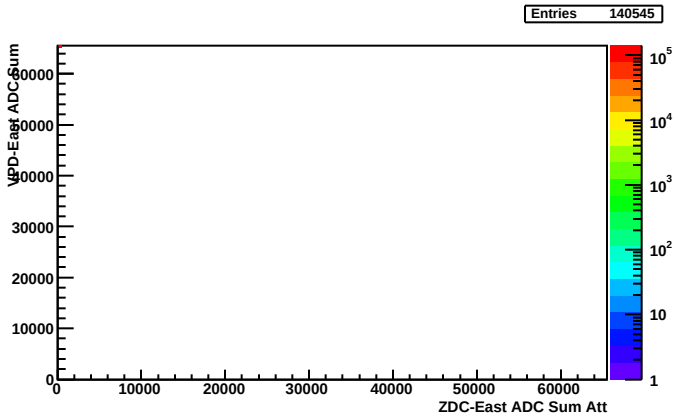
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 140545
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 140545
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 140545
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 140545
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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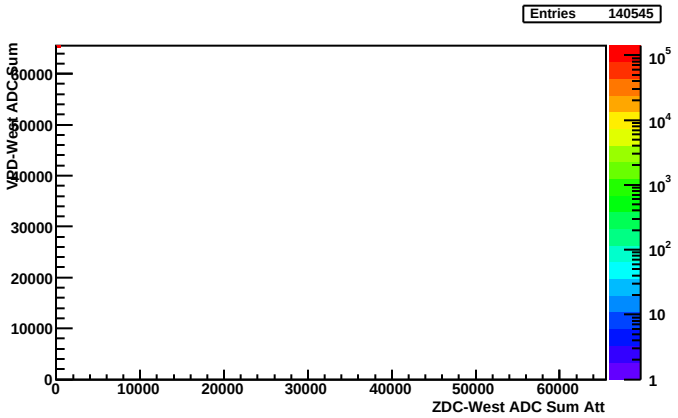
VPD-East ADC Sum
ZDC-East ADC Sum Att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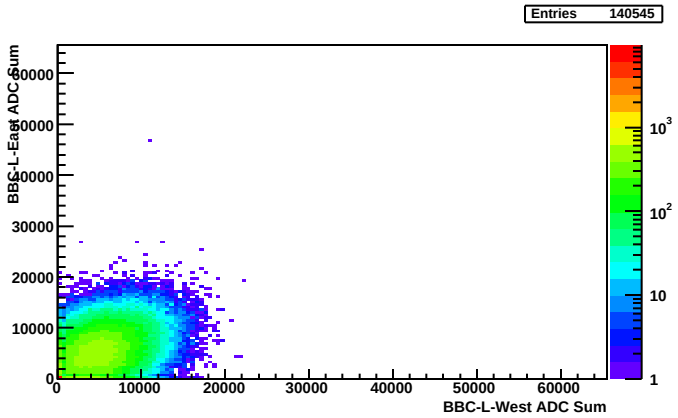
VPD-West ADC Sum
ZDC-West ADC Sum Att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BBC-L-East ADC Sum
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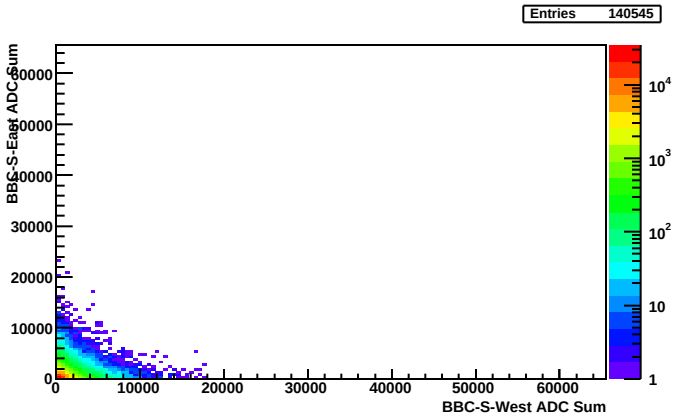
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BBC-S-East ADC Sum
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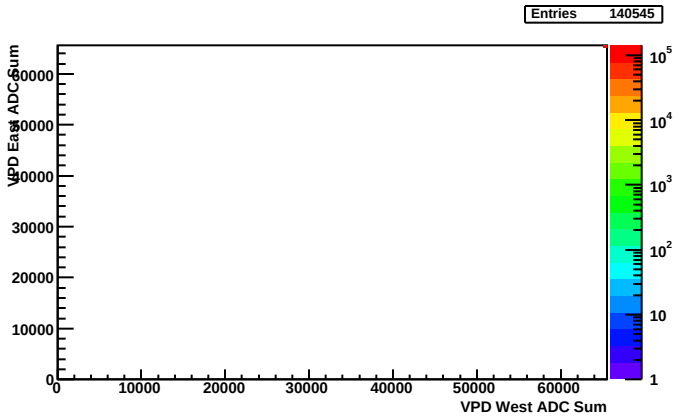
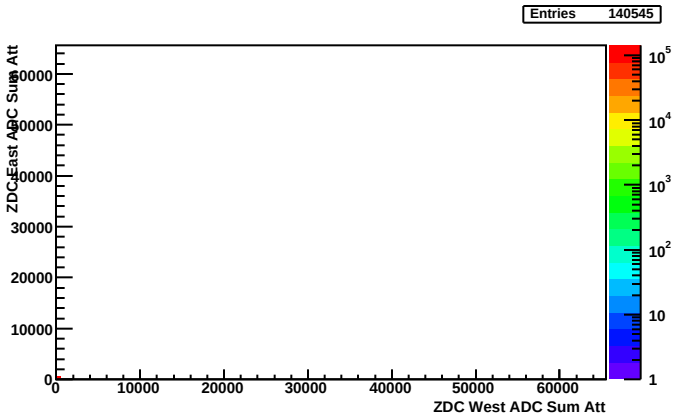
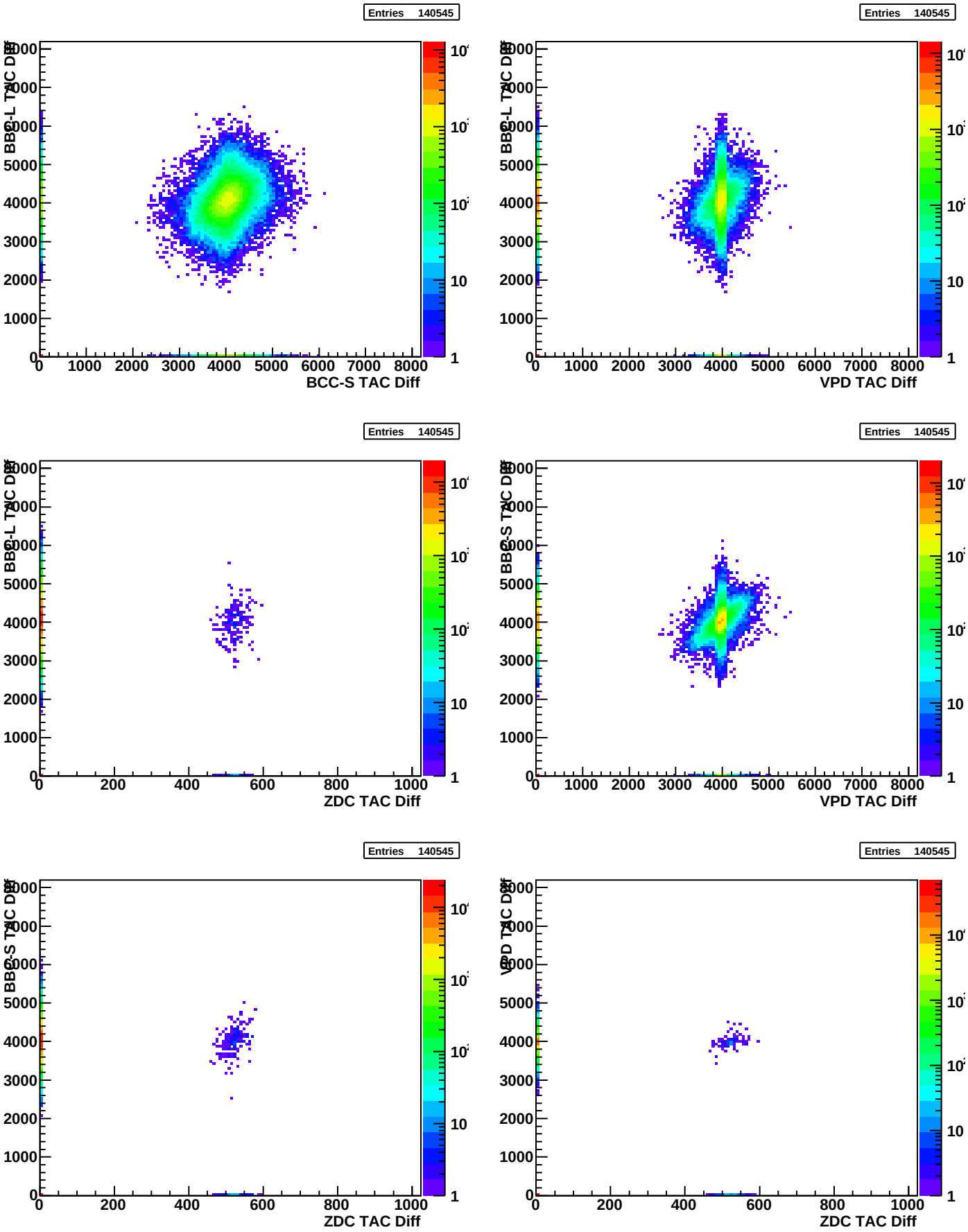

Entries 140545
VPD East ADC Sum
VPD West ADC Sum


Entries 140545
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 140545
BBC-L TAC Diff
BCC-S TAC Diff
Entries 140545
BBC-L TAC Diff
VPD TAC Diff
Entries 140545
BBC-L TAC Diff
ZDC TAC Diff
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VPD TAC Diff
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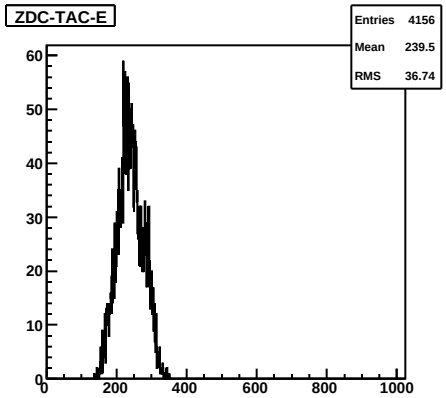
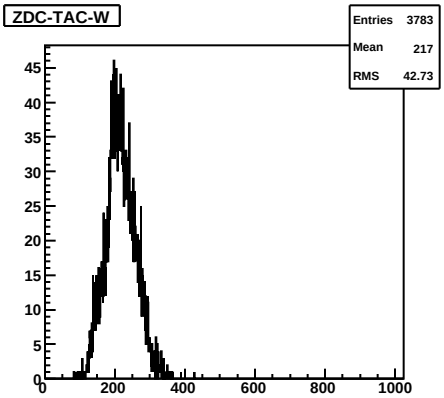
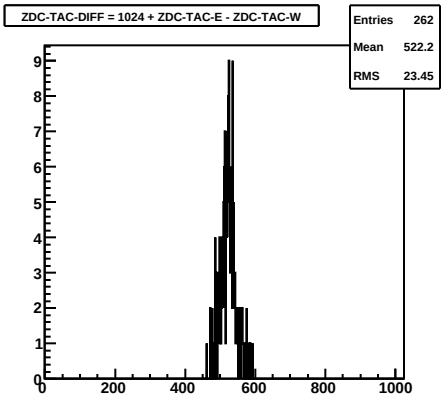
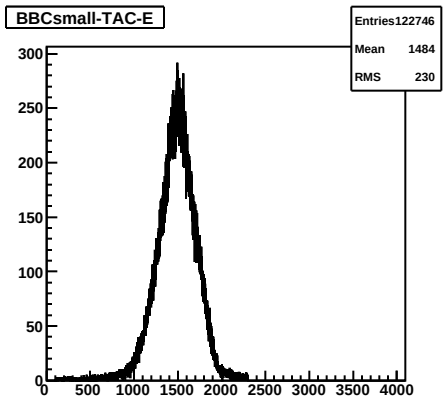
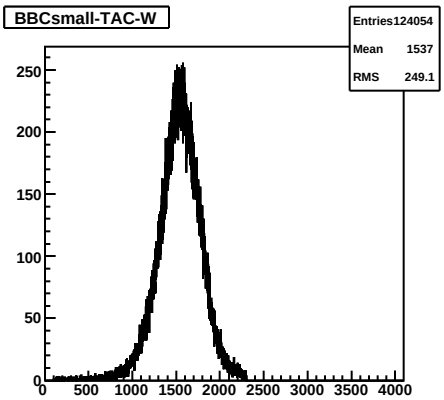
ZDC TAC Diff
Entries 140545
VPD TAC Diff
ZDC TAC Diff

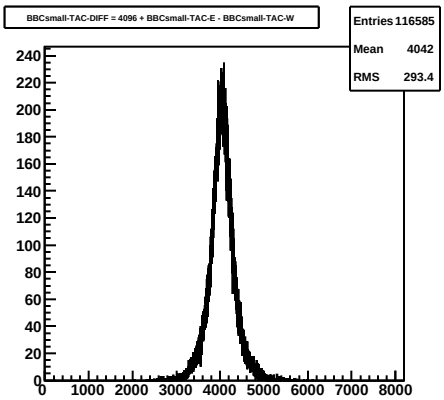

ZDC-TAC-E
Entries 4156
Mean 239.5
RMS 36.74

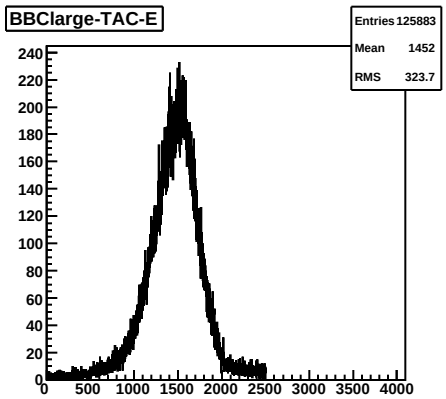

ZDC-TAC-W
Entries 3783
Mean 217
RMS 42.73

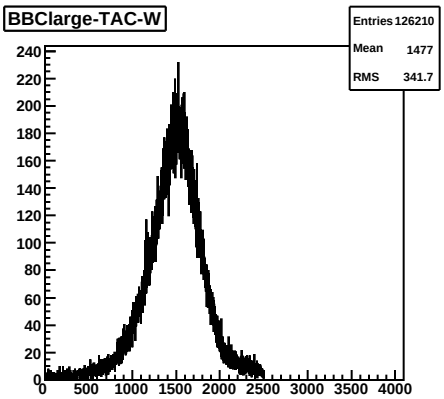

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 262
Mean 522.2
RMS 23.45

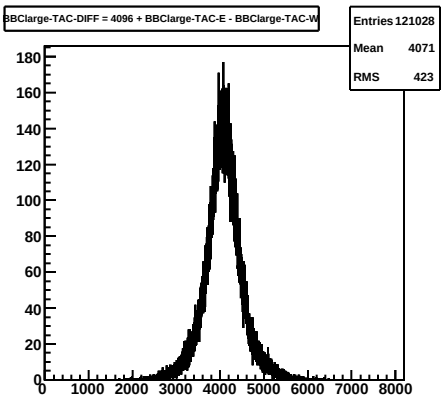

BBCsmall-TAC-E
Entries 122746
Mean 1484
RMS 230

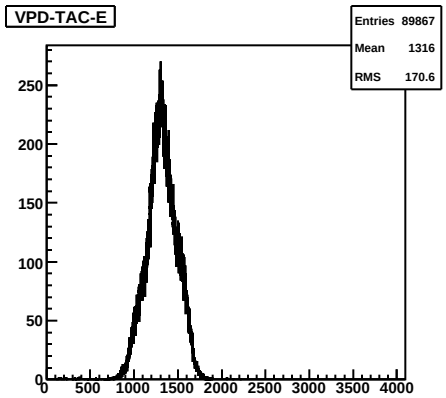

BBCsmall-TAC-W
Entries 124054
Mean 1537
RMS 249.1

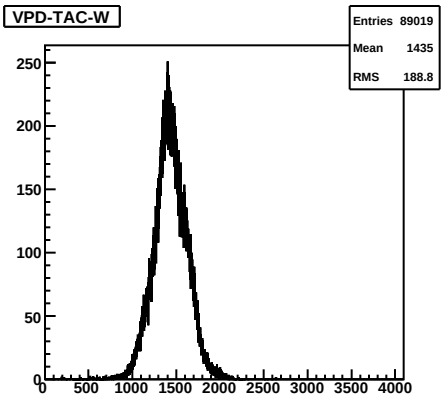

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 116585
Mean 4042
RMS 293.4

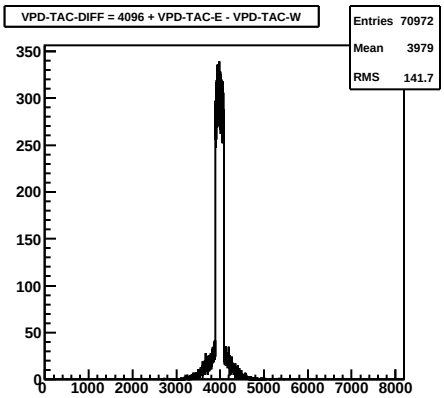

BBClarge-TAC-E
Entries 125883
Mean 1452
RMS 323.7

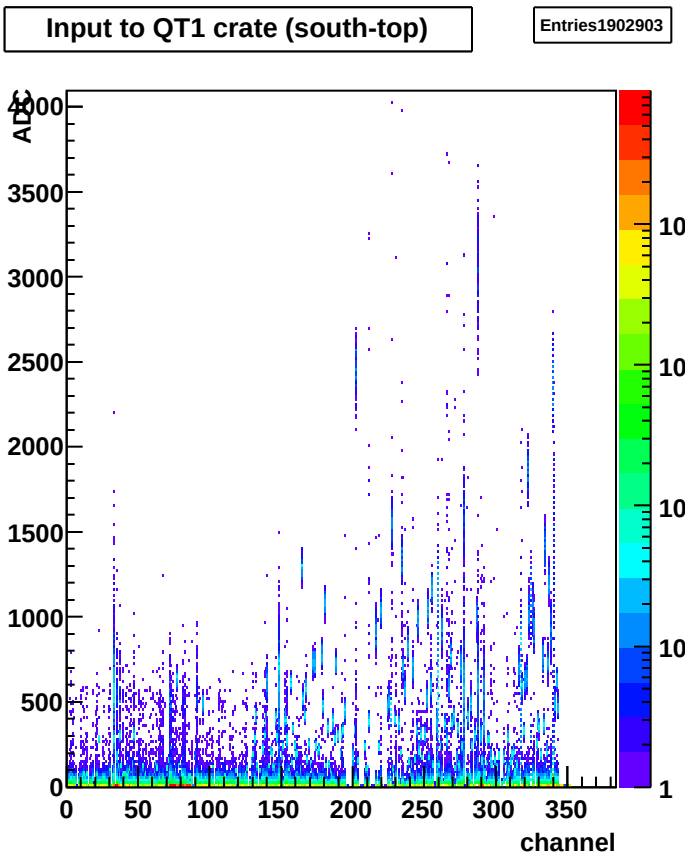

BBClarge-TAC-W
Entries 126210
Mean 1477
RMS 341.7

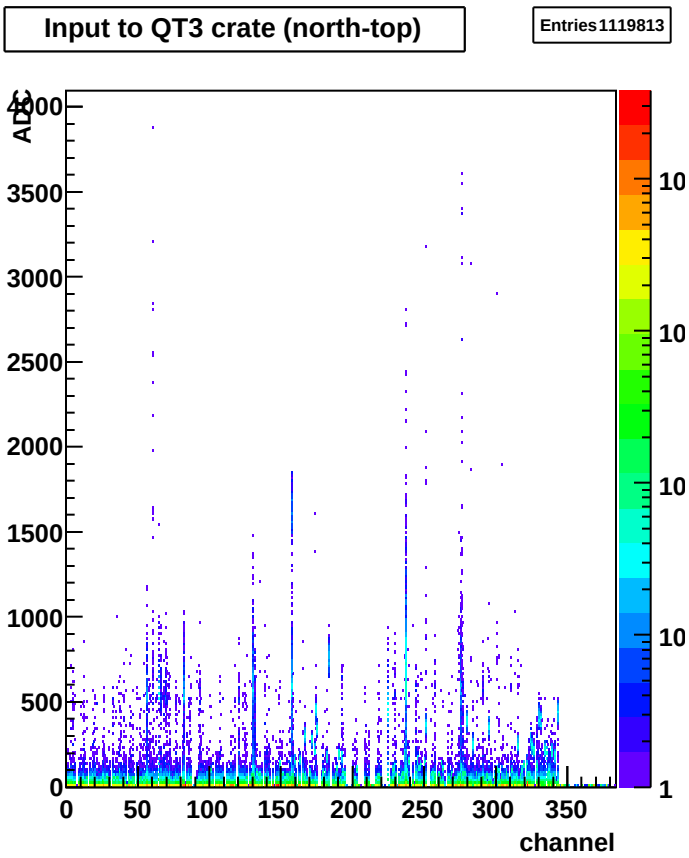

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 121028
Mean 4071
RMS 423

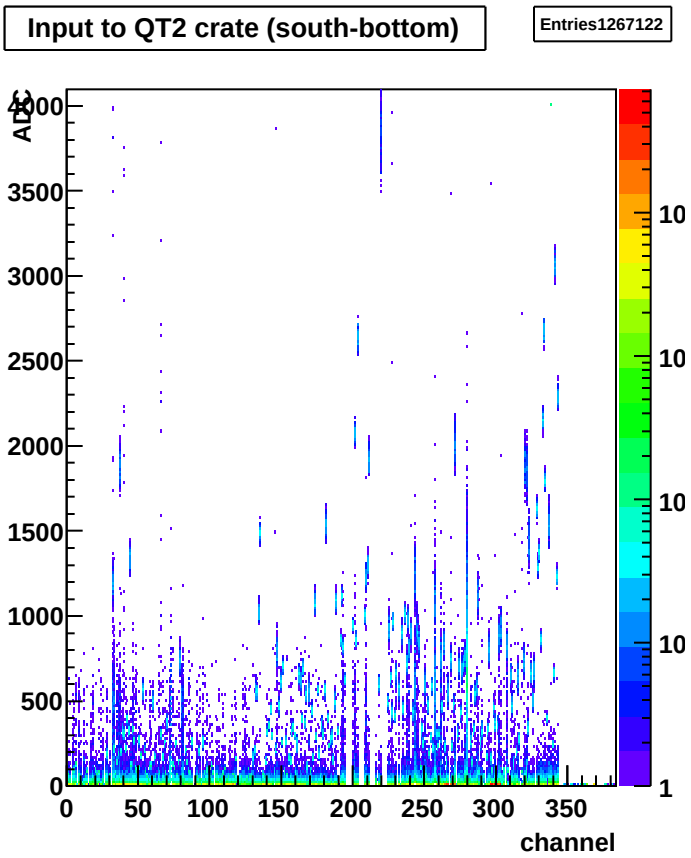

VPD-TAC-E
Entries 89867
Mean 1316
RMS 170.6

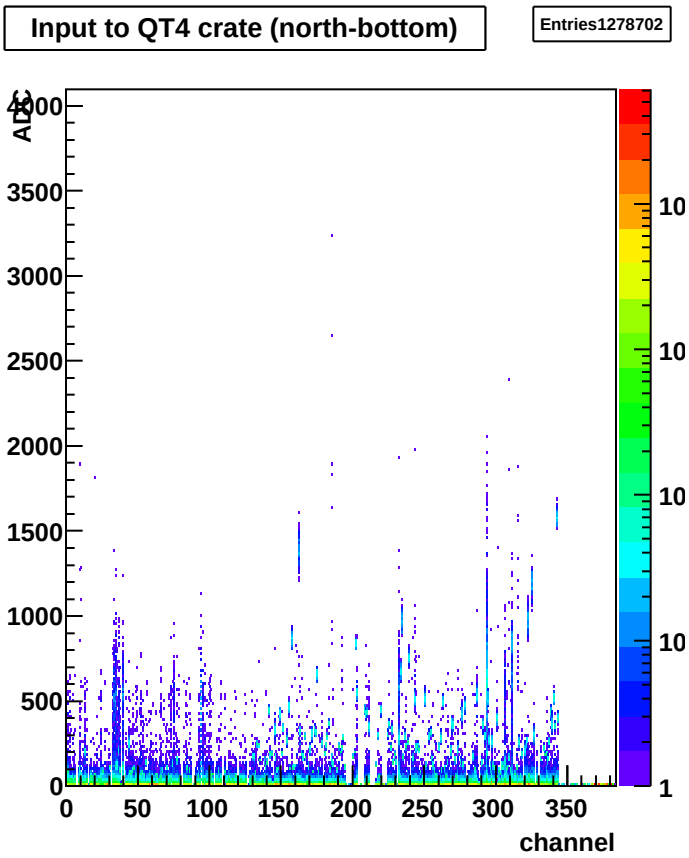

VPD-TAC-W
Entries 89019
Mean 1435
RMS 188.8

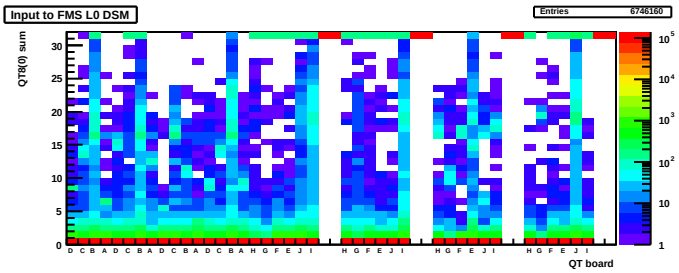

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 70972
Mean 3979
RMS 141.7

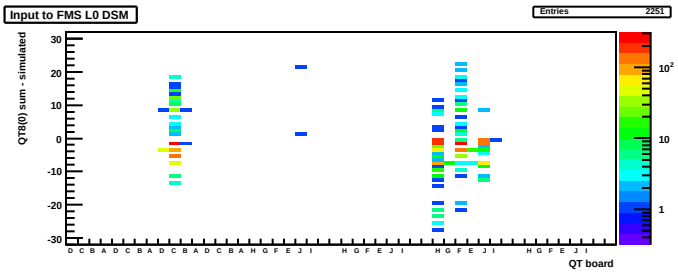

Input to QT1 crate (south-top)
Entries1902903
ADC
channel

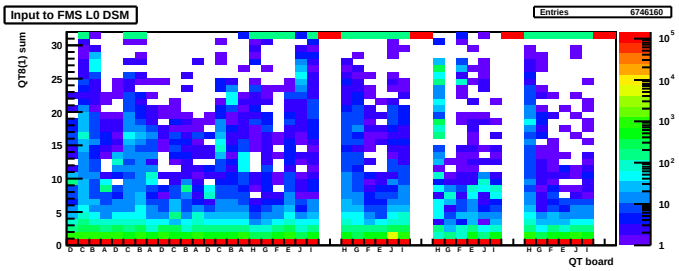

Input to QT3 crate (north-top)
Entries1119813
ADC
channel

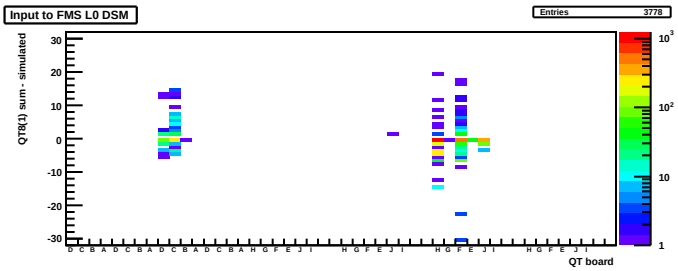

Input to QT2 crate (south-bottom)
Entries1267122
ADC
channel

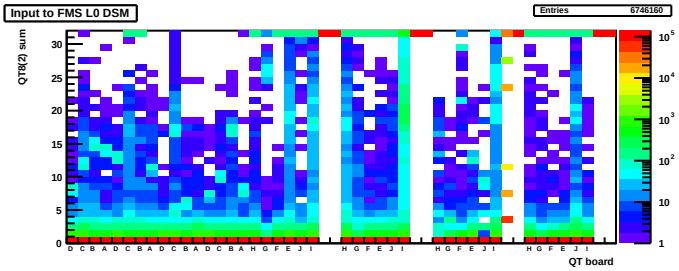

Input to QT4 crate (north-bottom)
Entries1278702
ADC
channel

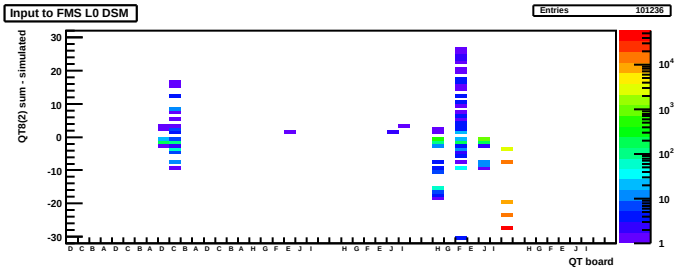

Input to FMS L0 DSM
Entries 6746160
QT8(0) sum
QT board

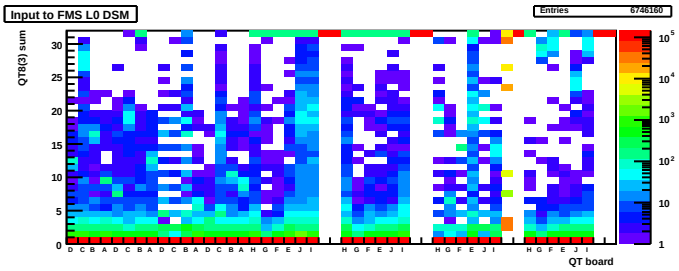

Input to FMS L0 DSM
Entries 2251
QT8(0) sum - simulated
QT board

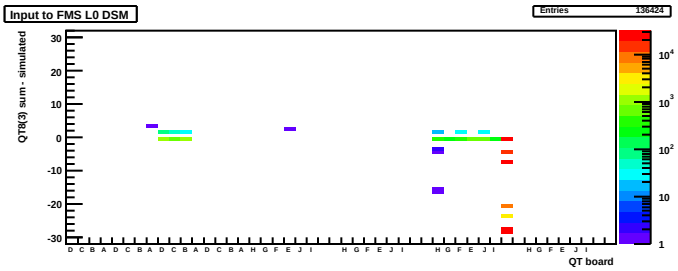

Input to FMS L0 DSM
Entries 6746160
QT8(1) sum
QT board

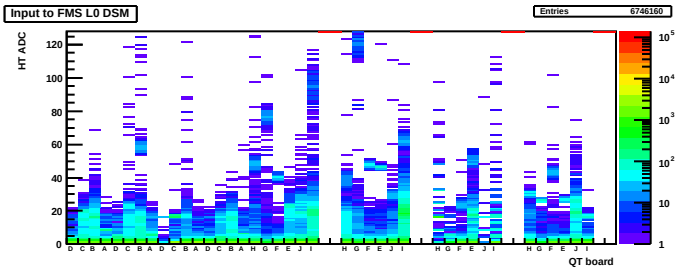

Input to FMS L0 DSM
Entries 3778
QT8(1) sum - simulated
QT board

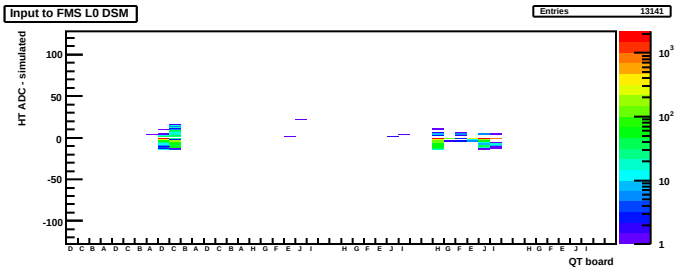

Input to FMS L0 DSM
Entries 6746160
QT8(2) sum
QT board

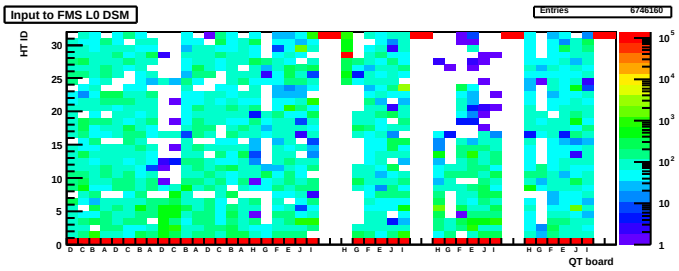

Input to FMS L0 DSM
Entries 101236
QT8(2) sum - simulated
QT board

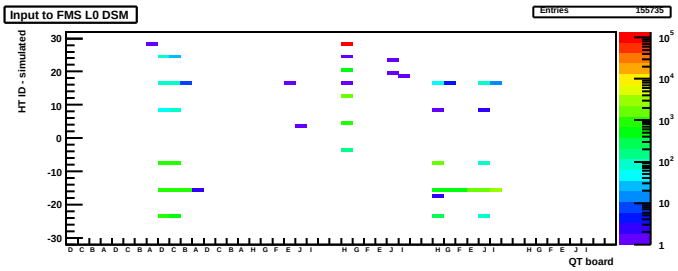

Input to FMS L0 DSM
Entries 6746160
QT8(3) sum
QT board

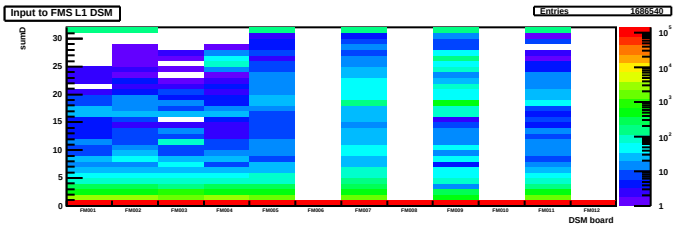

Input to FMS L0 DSM
Entries 136424
QT8(3) sum - simulated
QT board

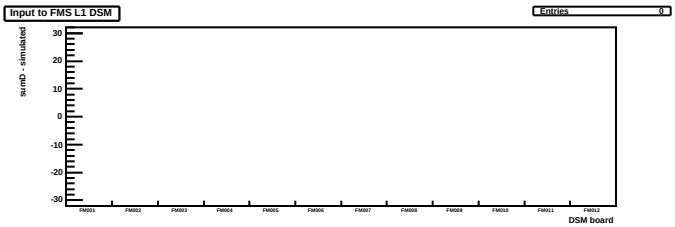

Input to FMS L0 DSM
Entries 6746160
HT ADC
QT board

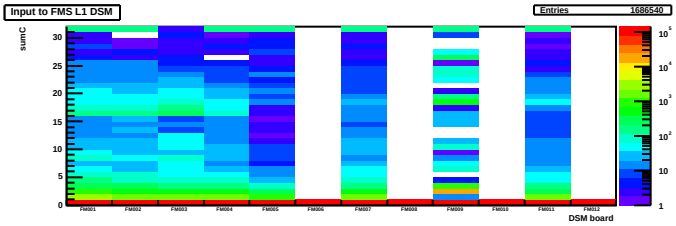

Input to FMS L0 DSM
Entries 13141
HT ADC - simulated
QT board

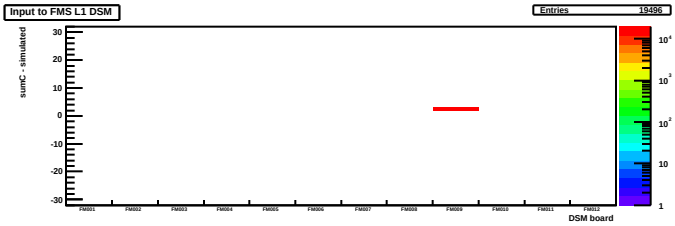

Input to FMS L0 DSM
Entries 6746160
HT ID
QT board

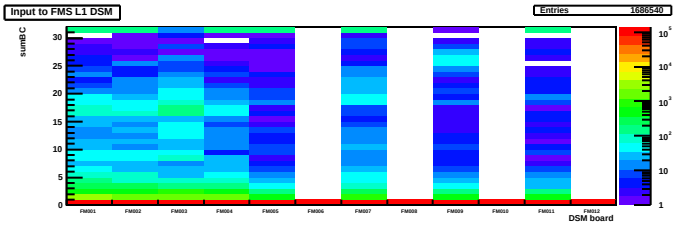

Input to FMS L0 DSM
Entries 155735
HT ID - simulated
QT board

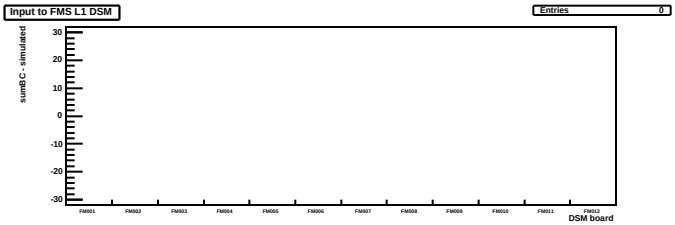

Input to FMS L1 DSM
Entries 1686540
sumD
DSM board

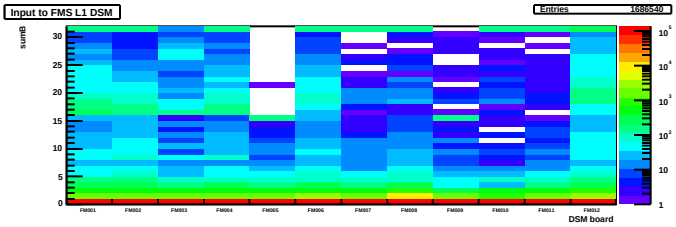

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

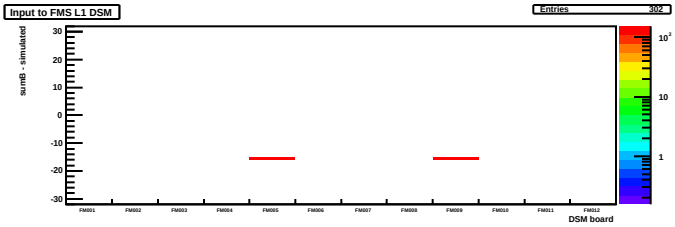

Input to FMS L1 DSM
Entries 1686540
sumC
DSM board

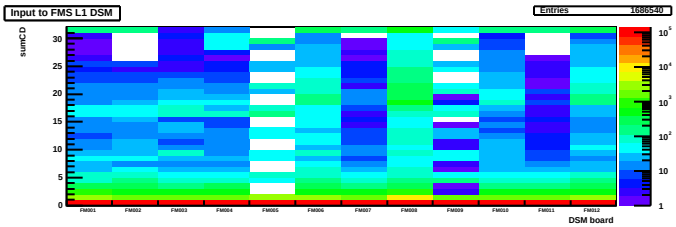

Input to FMS L1 DSM
Entries 19496
sumC - simulated
DSM board

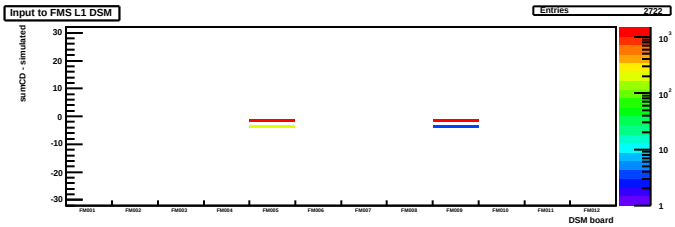

Input to FMS L1 DSM
Entries 1686540
sumBC
DSM board

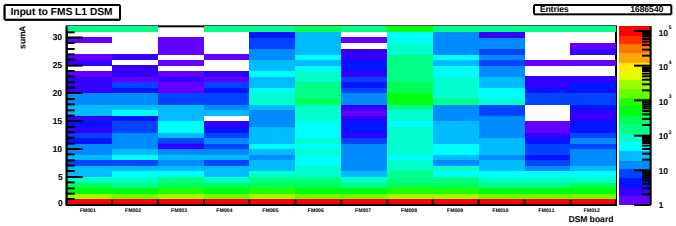

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

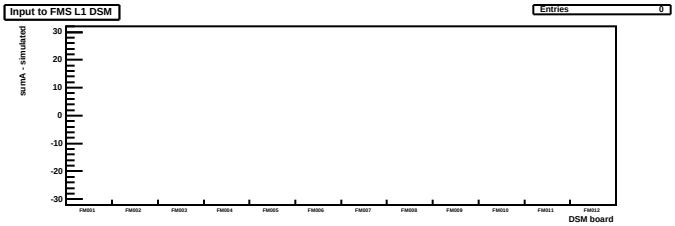

Input to FMS L1 DSM
Entries 1686540
sumB
DSM board

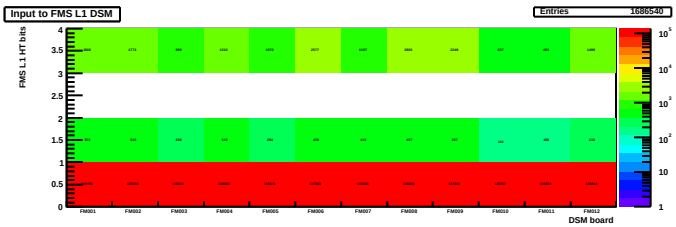

Input to FMS L1 DSM
Entries 302
sumB - simulated
DSM board

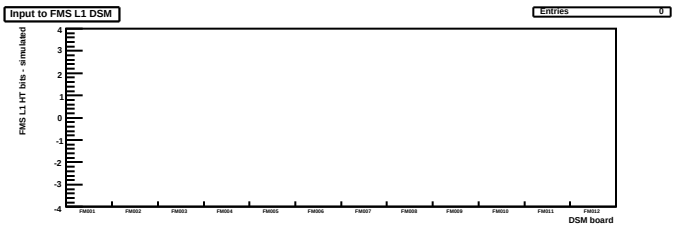

Input to FMS L1 DSM
Entries 1686540
sumCD
DSM board

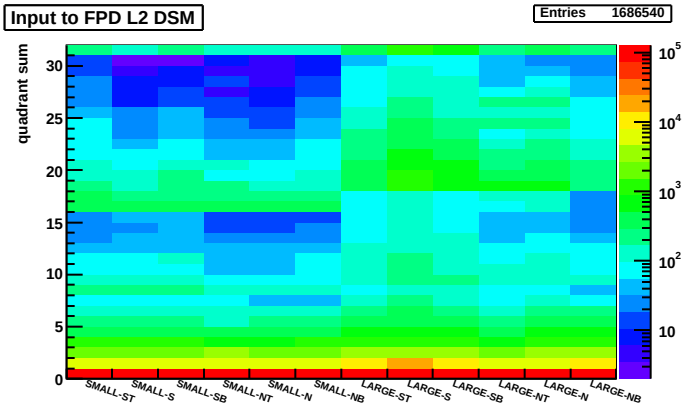

Input to FMS L1 DSM
Entries 2722
sumCD - simulated
DSM board

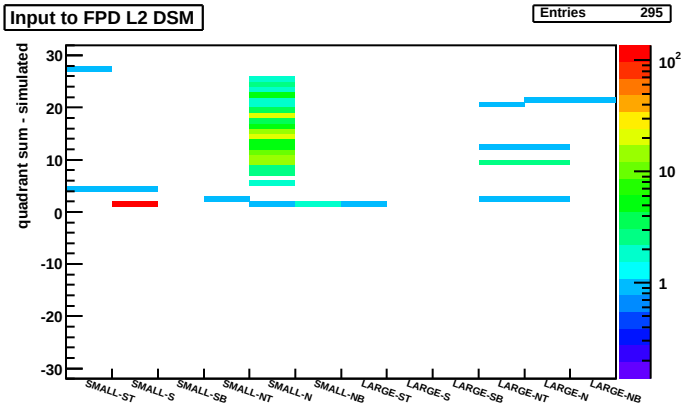

Input to FMS L1 DSM
Entries 1686540
sumA
DSM board

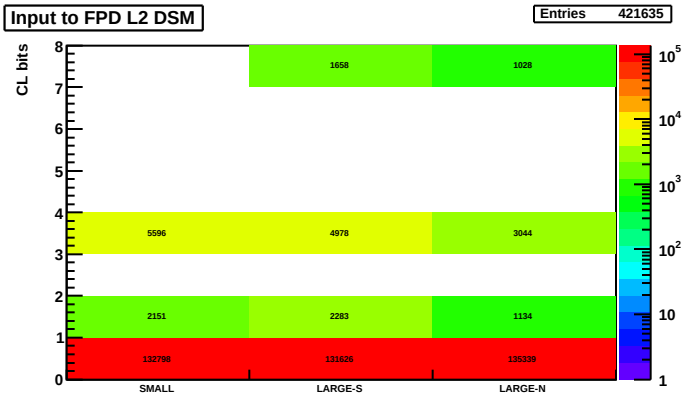

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

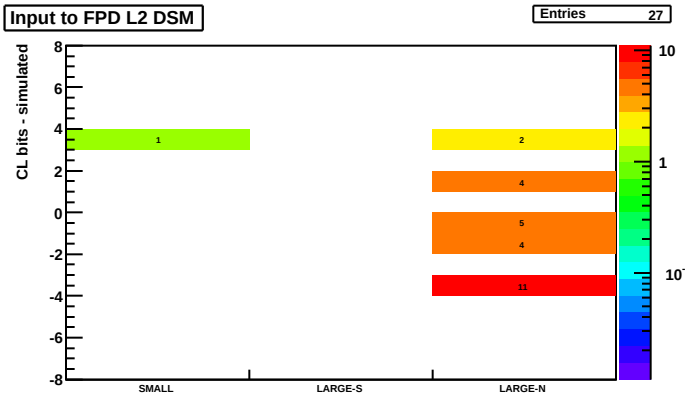

Input to FMS L1 DSM
Entries 1686540
FMS L1 HT bits
DSM board

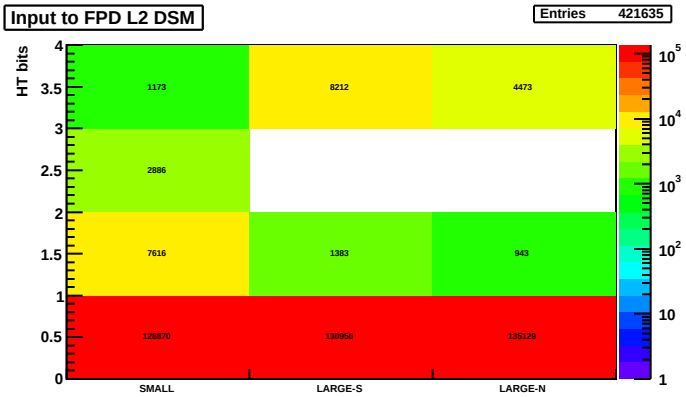

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

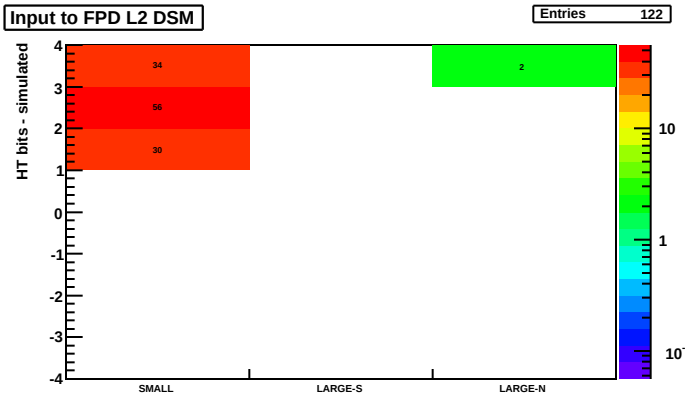

Input to FPD L2 DSM
Entries 1686540
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

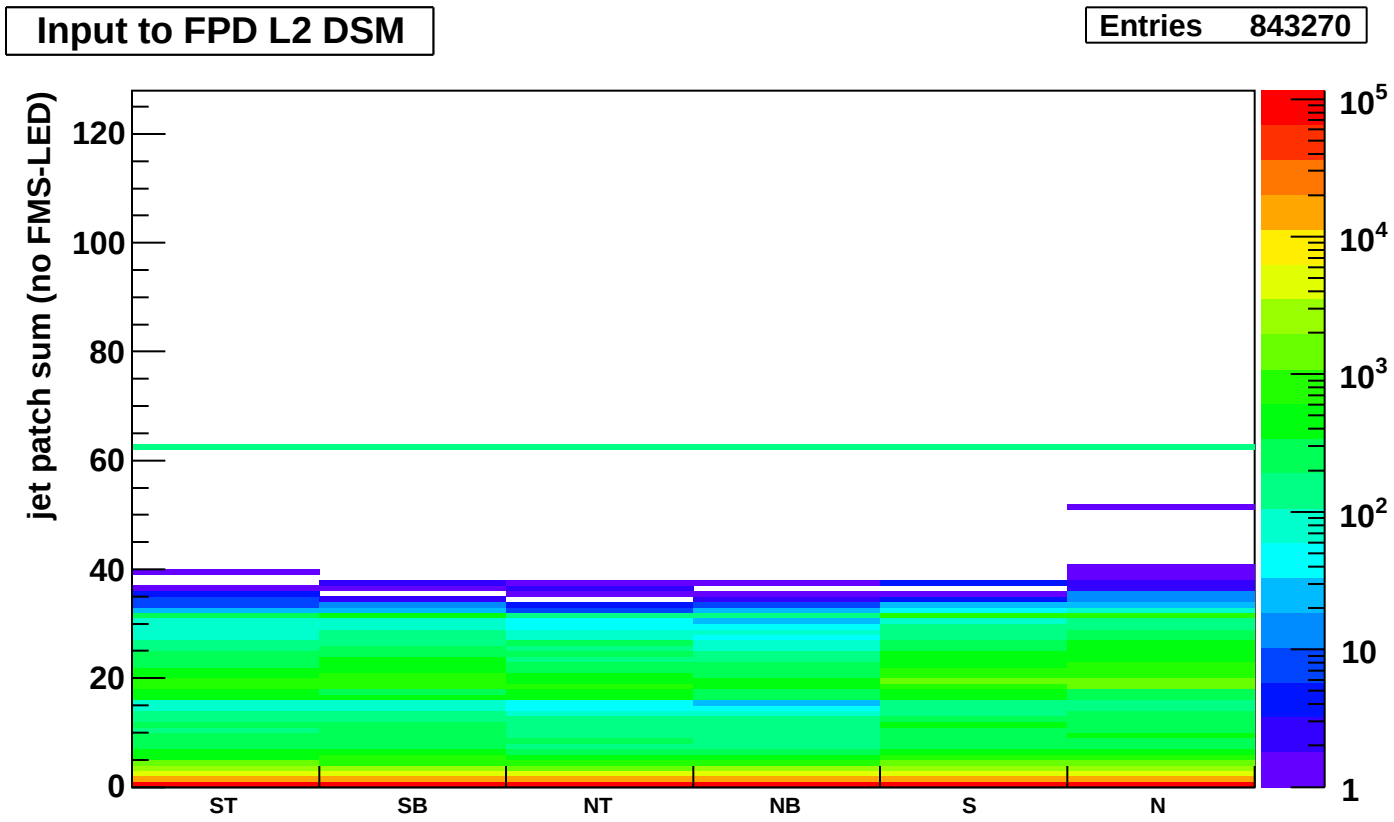

Input to FPD L2 DSM
Entries 295
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

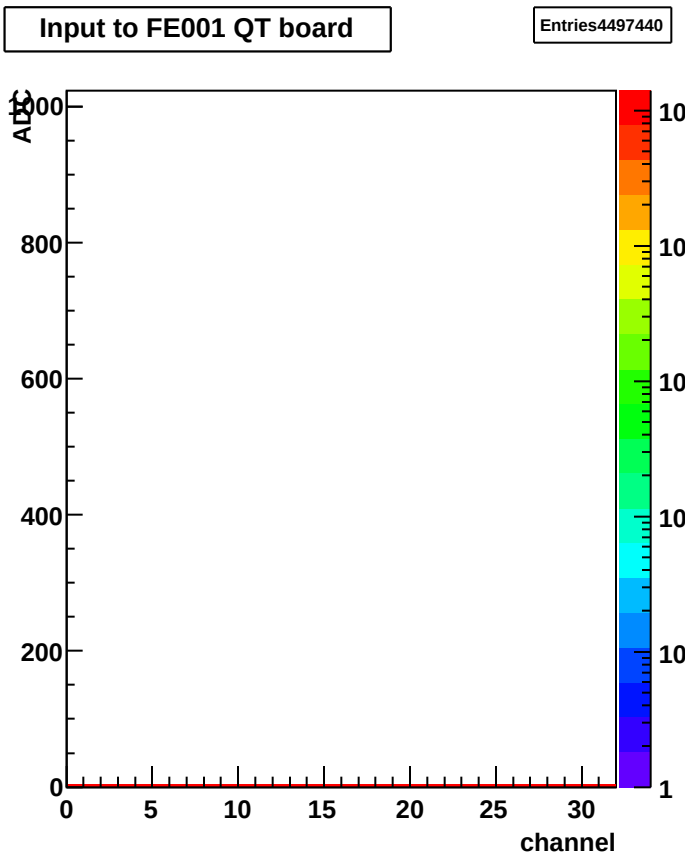

Input to FPD L2 DSM
Entries 421635
CL bits
1658
1028
5596
4978
3044
2151
2283
1134
132798
131626
135339
SMALL
LARGE-S
LARGE-N

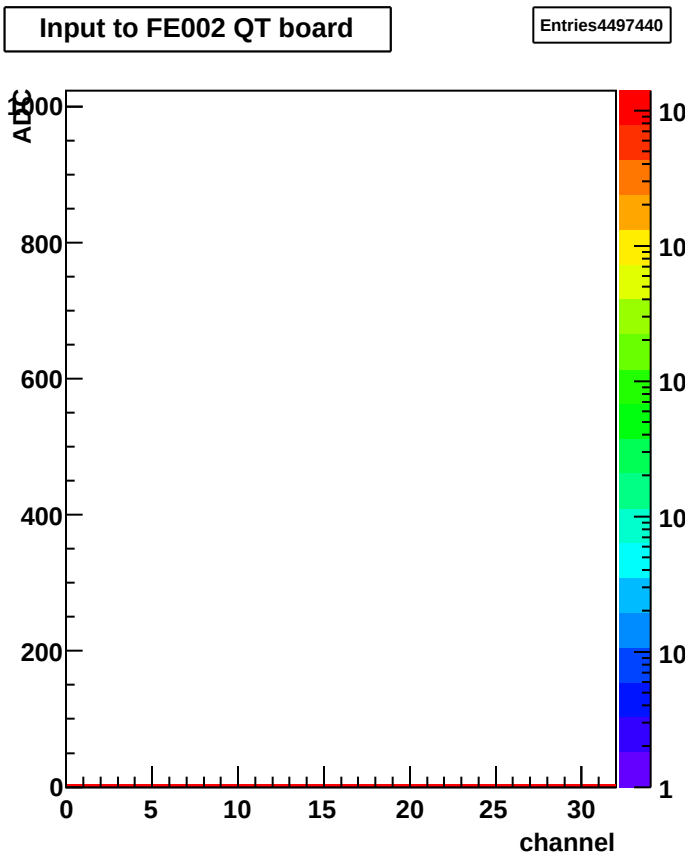

Input to FPD L2 DSM
Entries 27
CL bits - simulated
1
2
4
5
4
11
SMALL
LARGE-S
LARGE-N

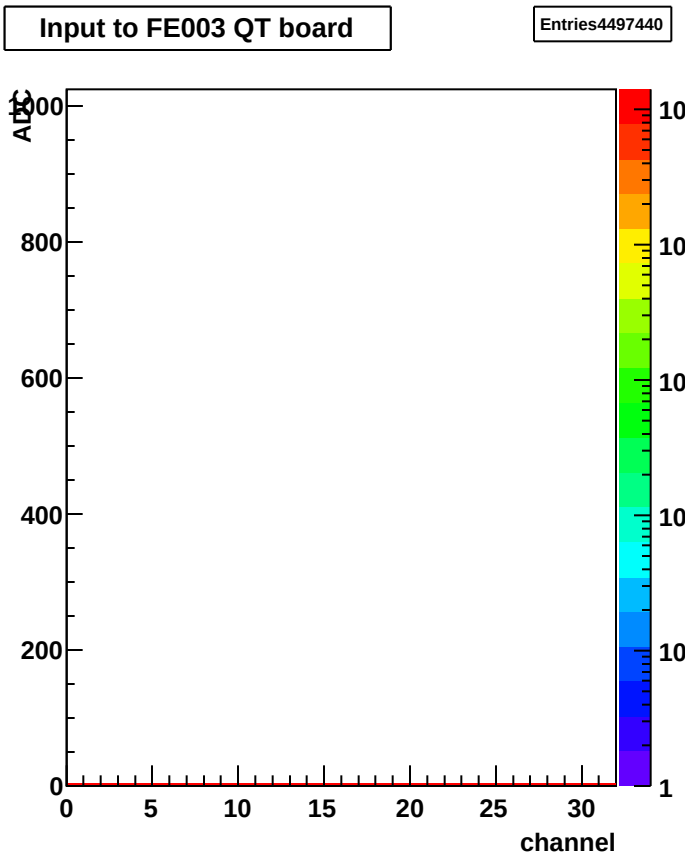

Input to FPD L2 DSM
Entries 421635
HT bits
1173
8212
4473
2886
7616
1383
943
120870
130950
135129
SMALL
LARGE-S
LARGE-N

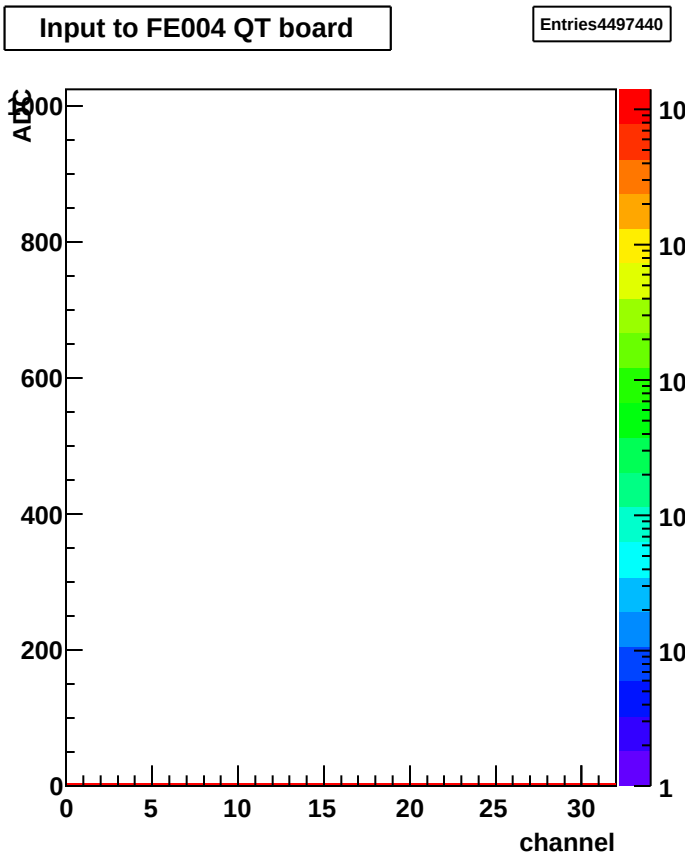

Input to FPD L2 DSM
Entries 122
HT bits - simulated
34
2
56
30
SMALL
LARGE-S
LARGE-N

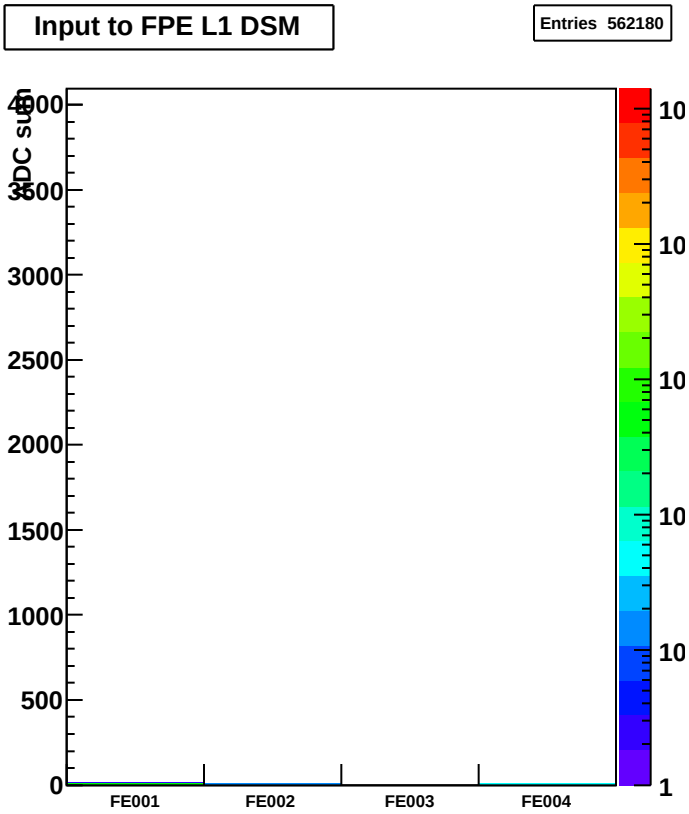

Input to FPD L2 DSM
Entries 843270
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

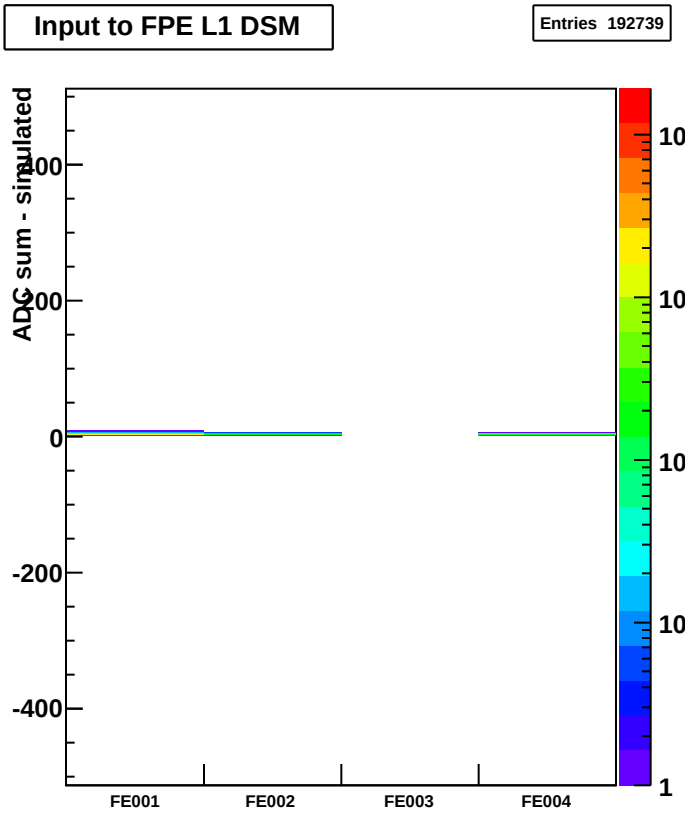

Input to FE001 QT board
Entries4497440
ADC
channel

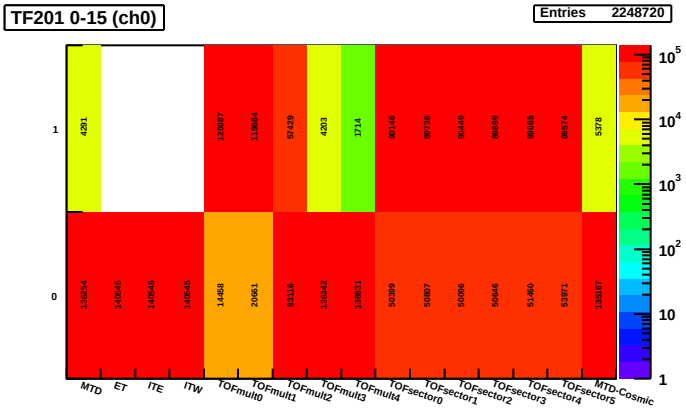

Input to FE002 QT board
Entries4497440
ADC
channel

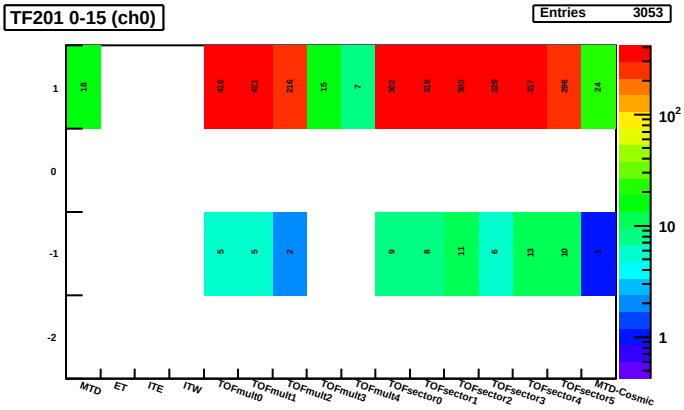

Input to FE003 QT board
Entries4497440
ADC
channel

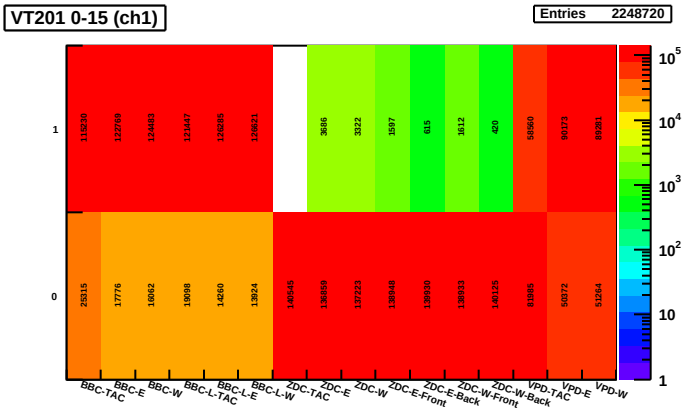

Input to FE004 QT board
Entries4497440
ADC
channel

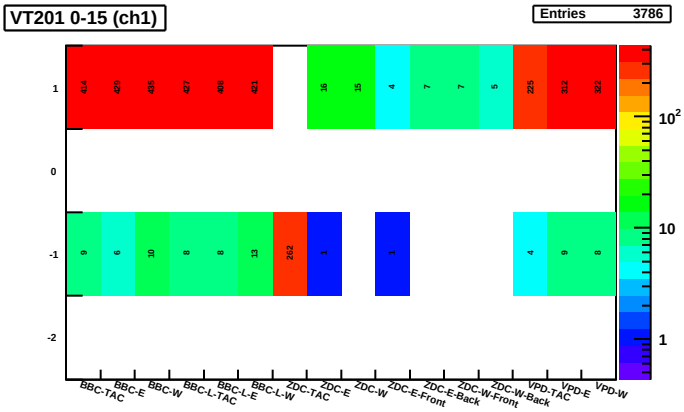

Input to FPE L1 DSM
Entries 562180
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

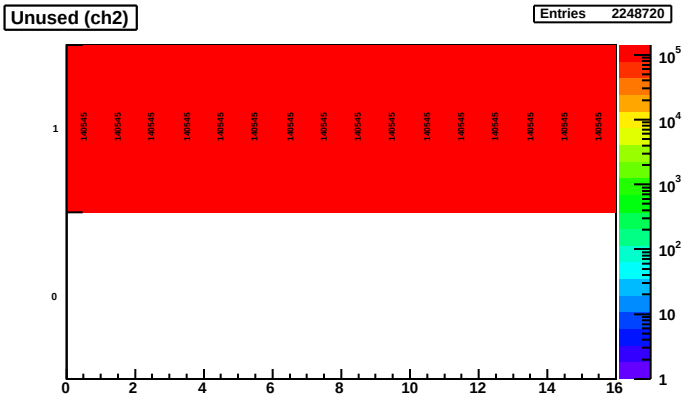

Input to FPE L1 DSM
Entries 192739
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 2248720
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 3053
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2248720
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 3786
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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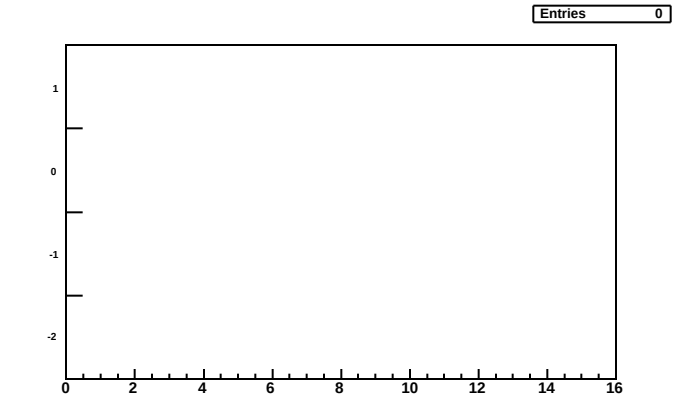
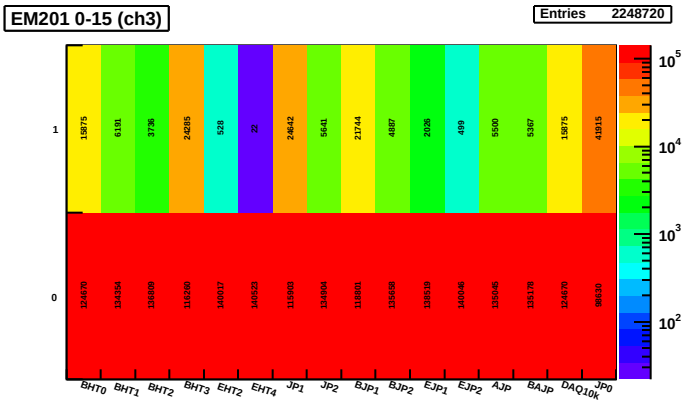
Entries 2248720


Entries 0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Entries 2248720
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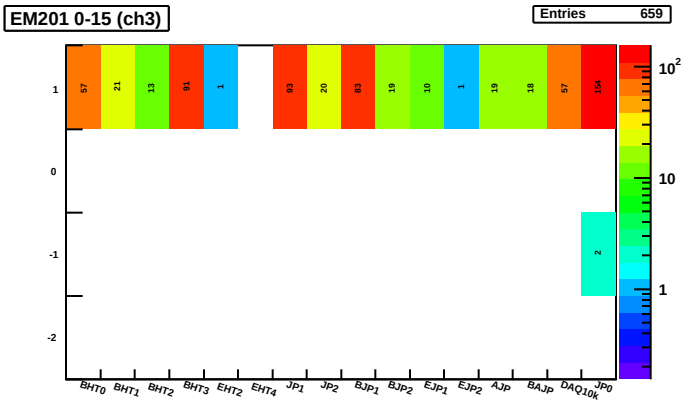
EM201 0-15 (ch3)
Entries 659
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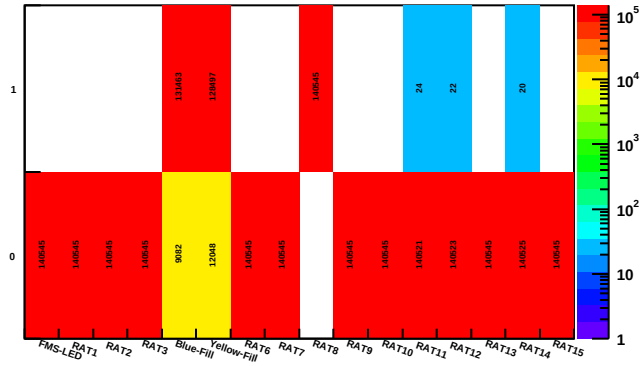
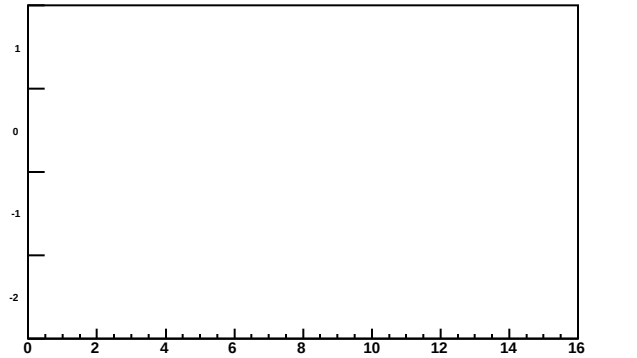
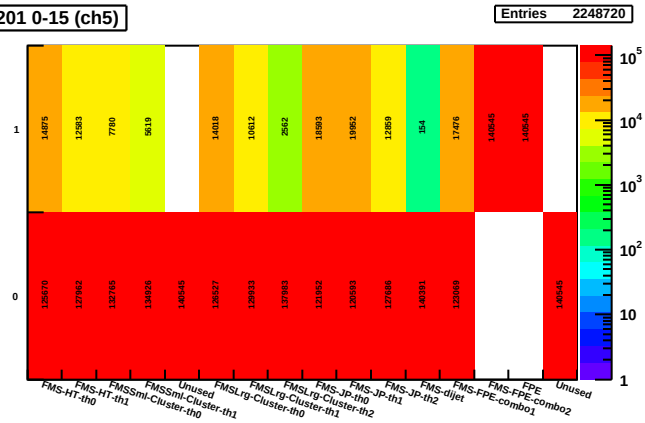
RAT board (ch4)

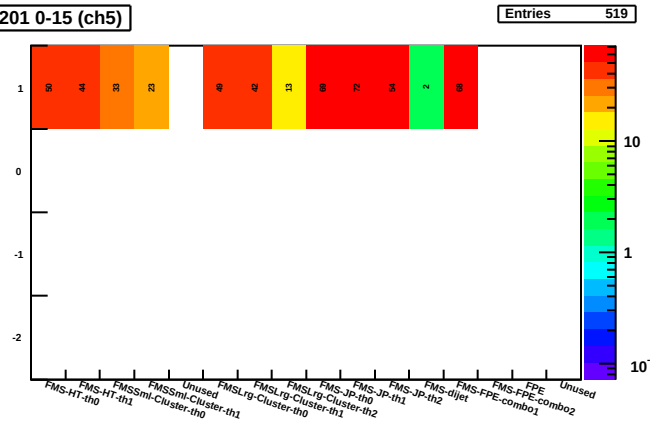




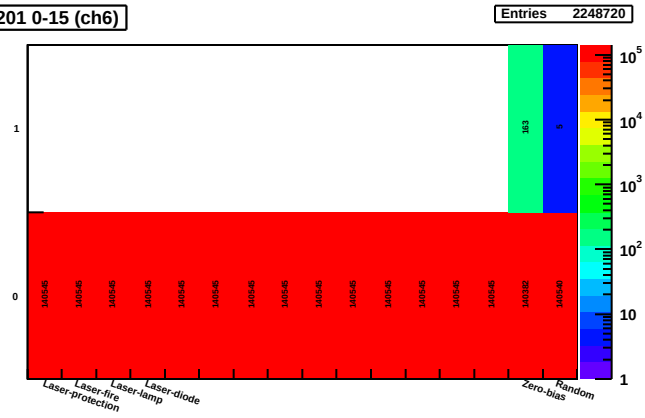
FP201 0-15 (ch5)

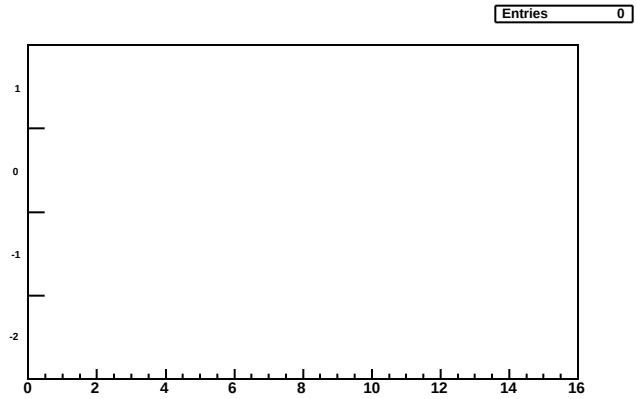
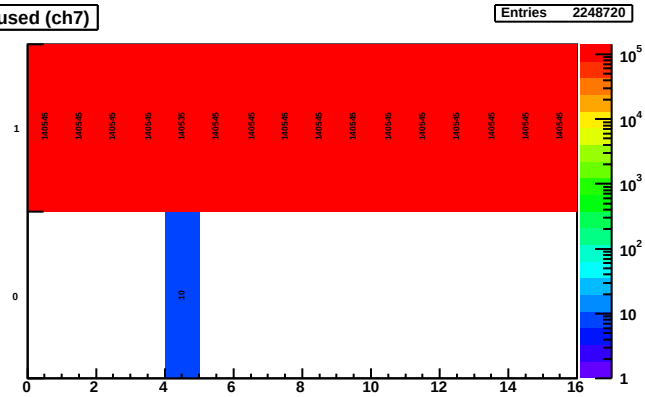
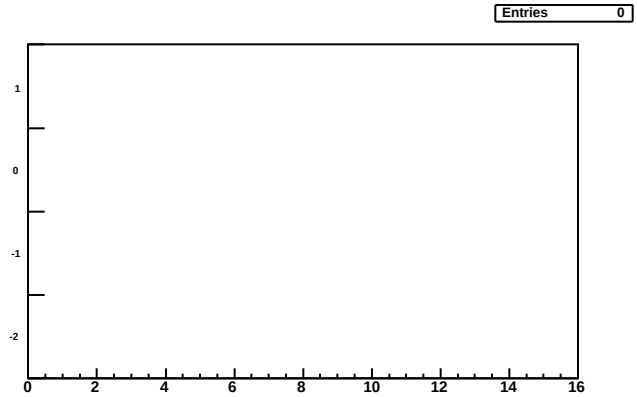


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)