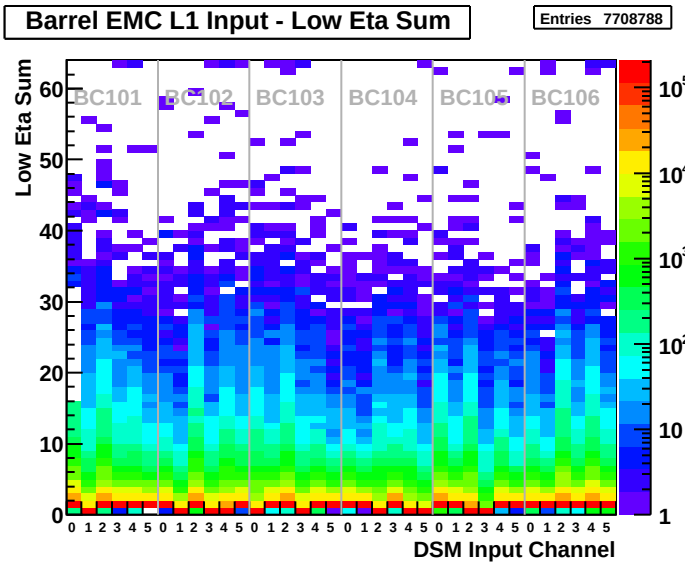
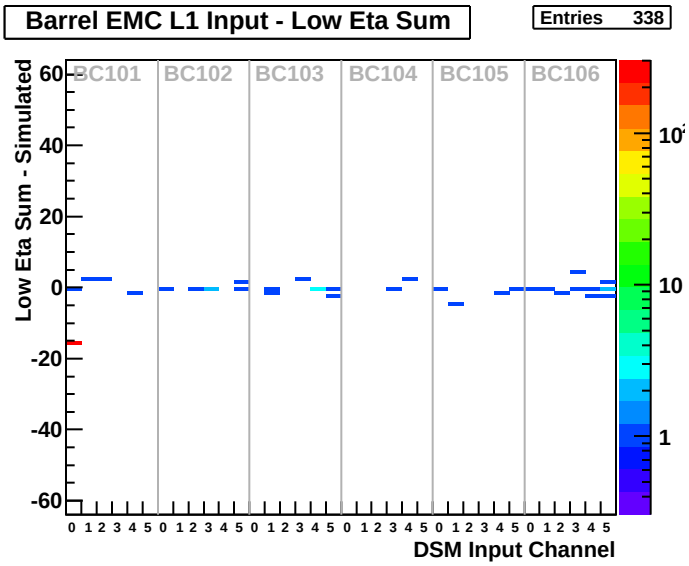
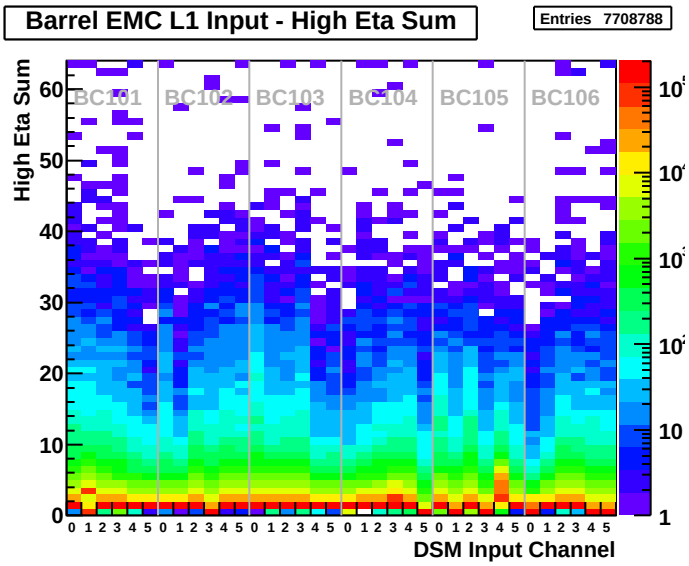
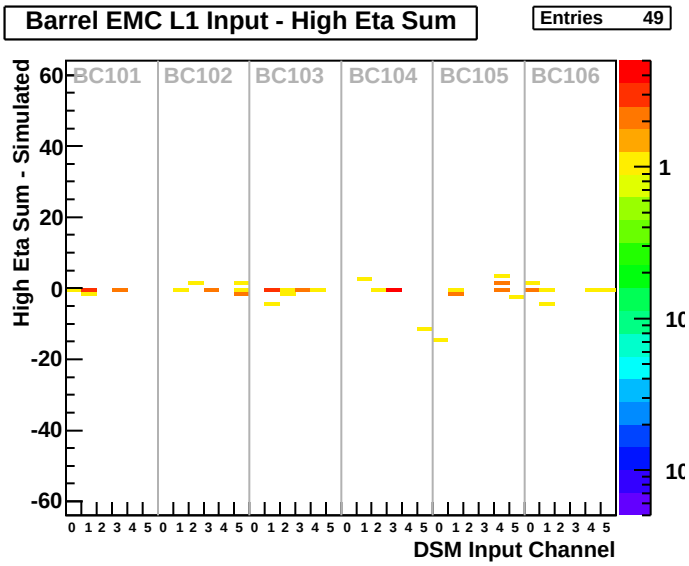
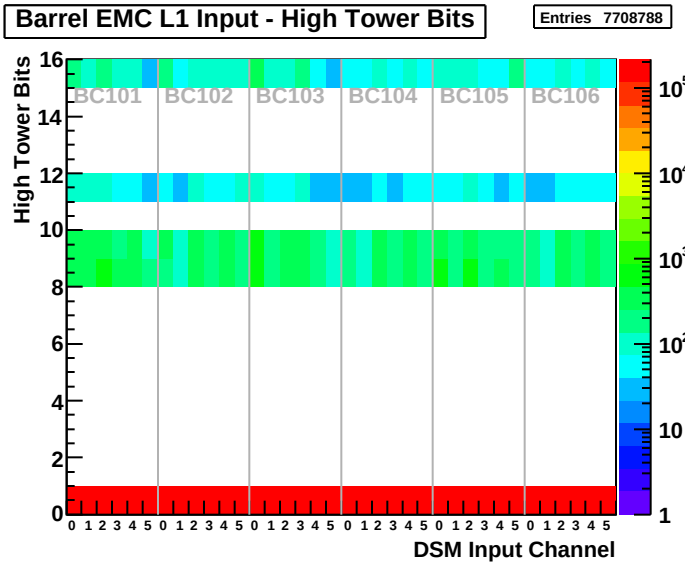
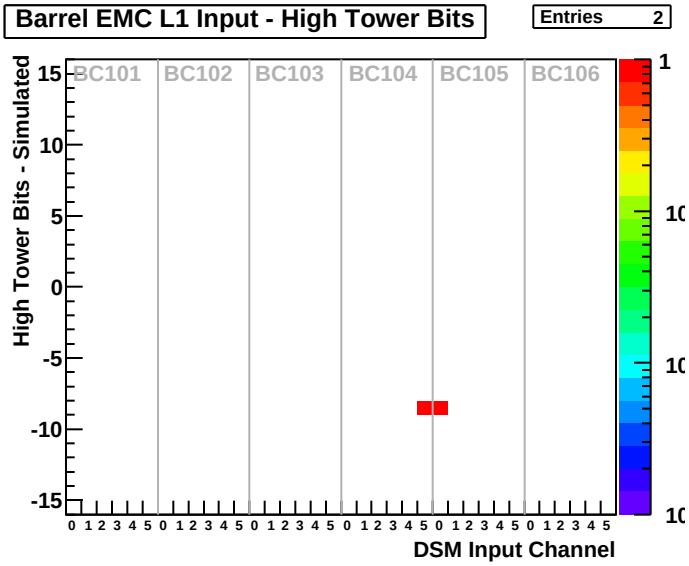

Barrel EMC L1 Input - Low Eta Sum
Entries 7708788
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

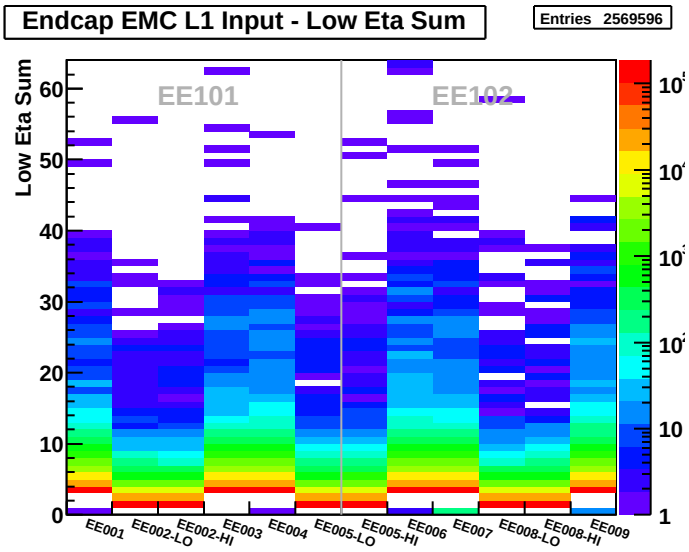

Barrel EMC L1 Input - Low Eta Sum
Entries 338
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

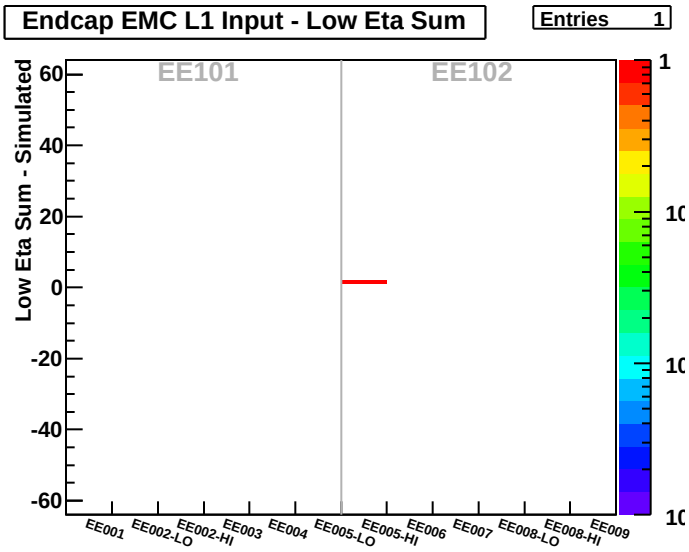

Barrel EMC L1 Input - High Eta Sum
Entries 7708788
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

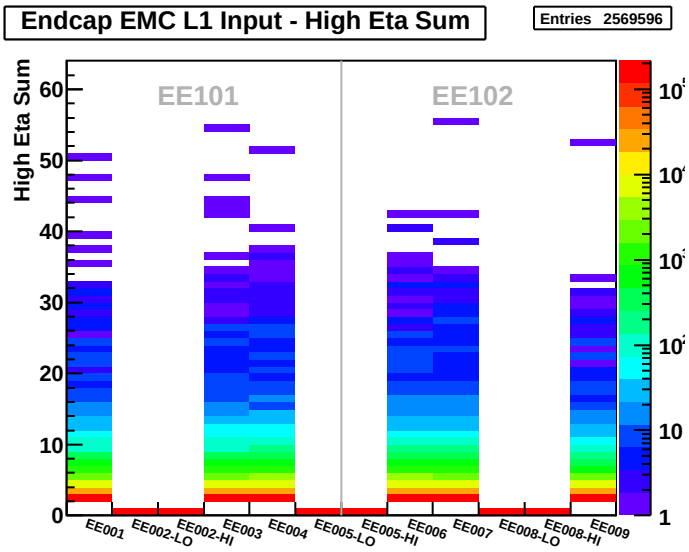

Barrel EMC L1 Input - High Eta Sum
Entries 49
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

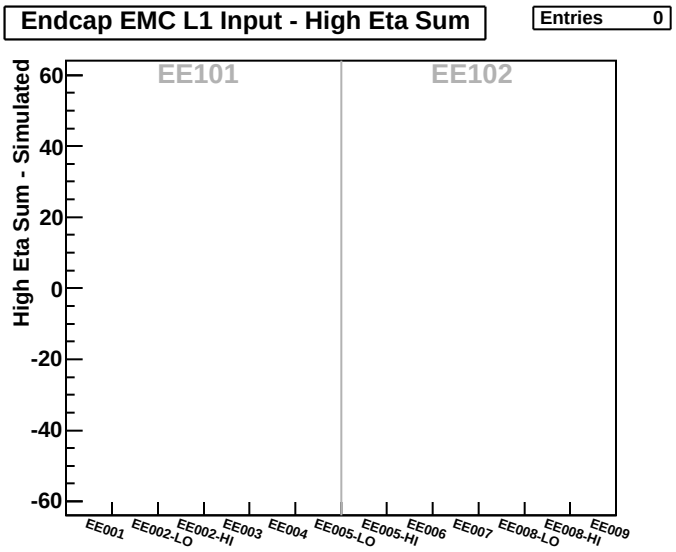

Barrel EMC L1 Input - High Tower Bits
Entries 7708788
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

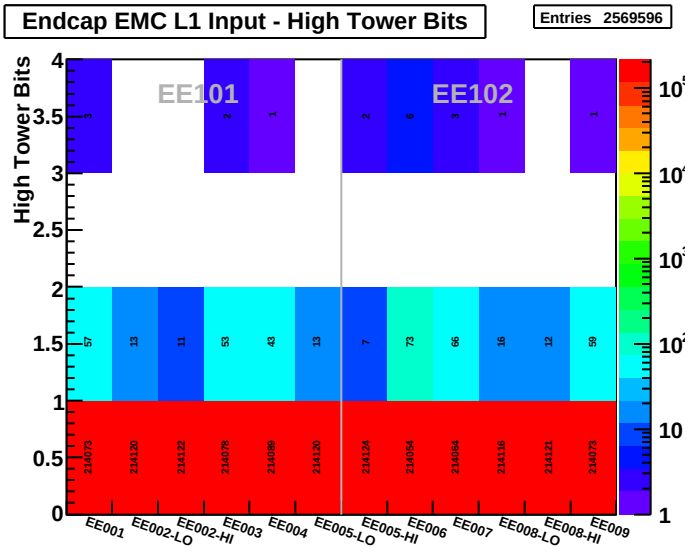

Barrel EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

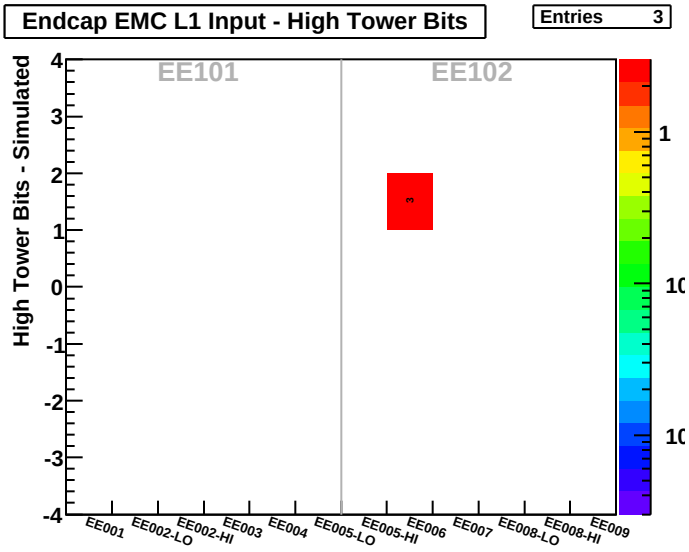

Endcap EMC L1 Input - Low Eta Sum
Entries 2569596
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

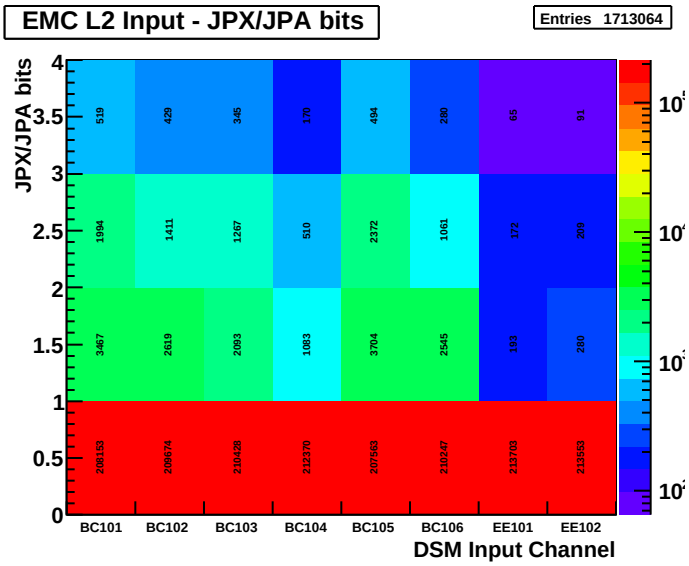

Endcap EMC L1 Input - Low Eta Sum
Entries 1
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

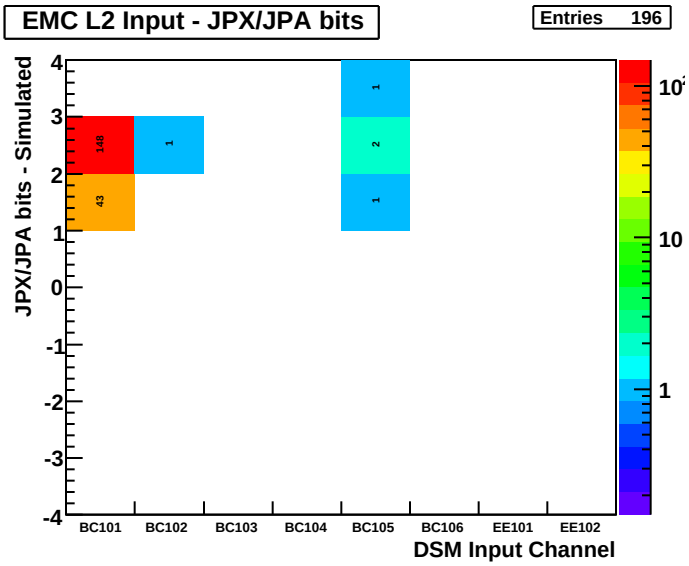

Endcap EMC L1 Input - High Eta Sum
Entries 2569596
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

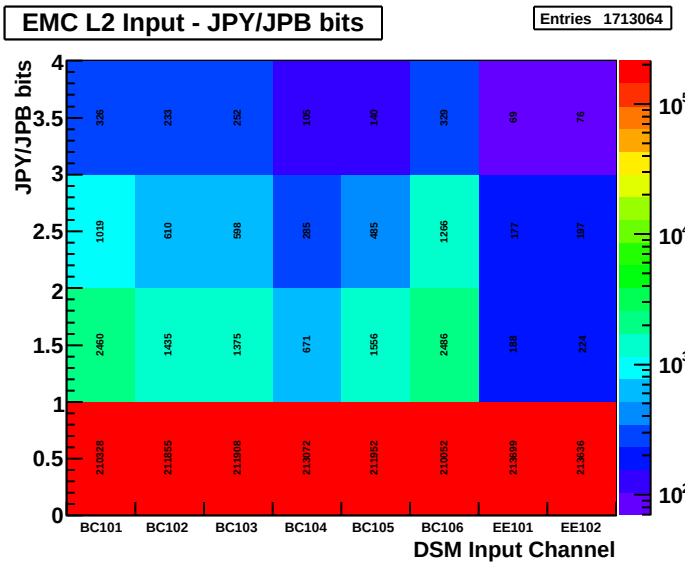

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

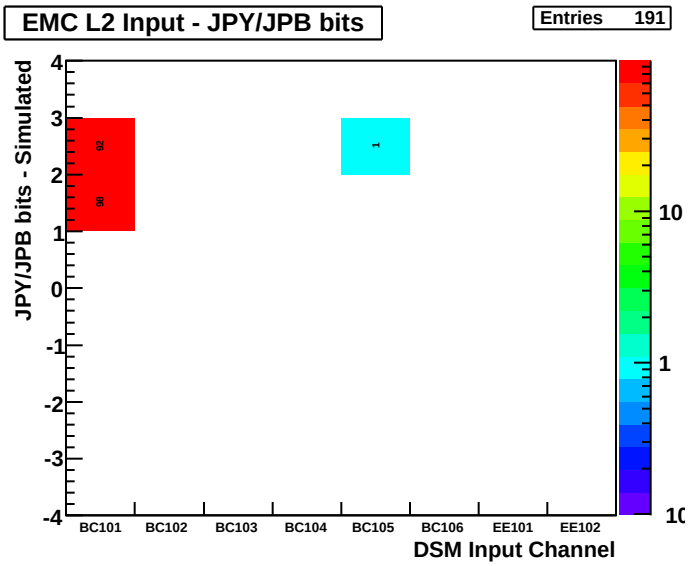

Endcap EMC L1 Input - High Tower Bits
Entries 2569596
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

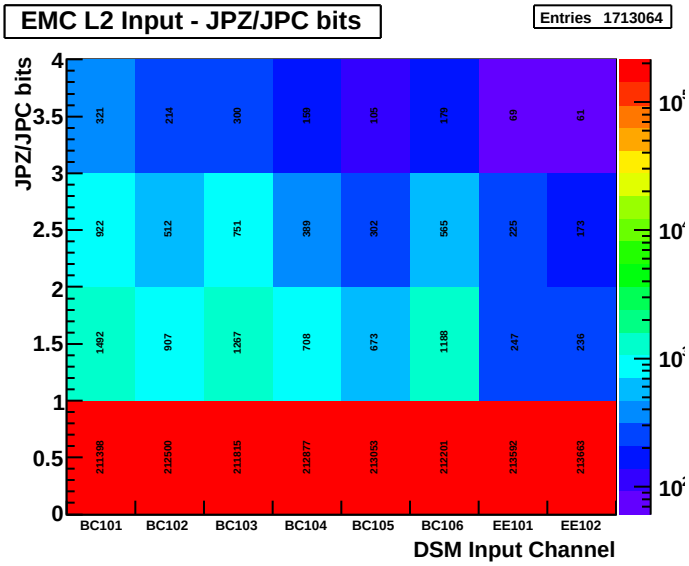

Endcap EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

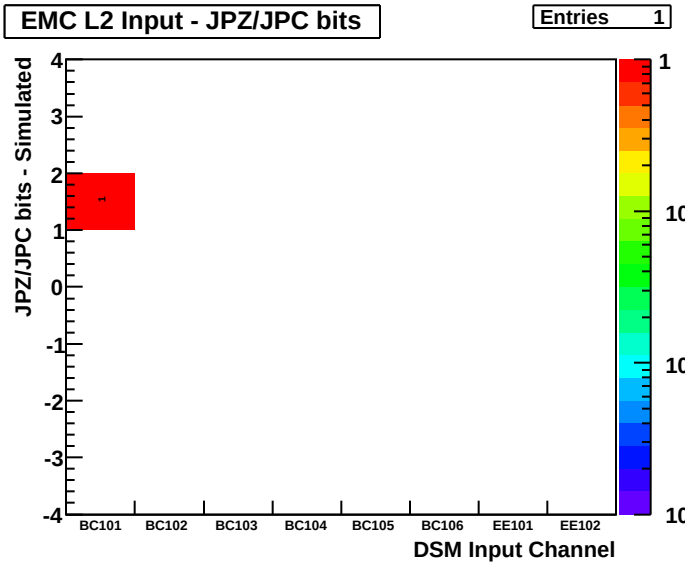

EMC L2 Input - JPX/JPA bits
Entries 1713064
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
519 429 345 170 494 280 65 91
1994 1411 1267 510 2372 1061 172 209
3467 2619 2093 1083 3704 2545 193 280
208153 209674 210428 212370 207563 210247 213703 213553

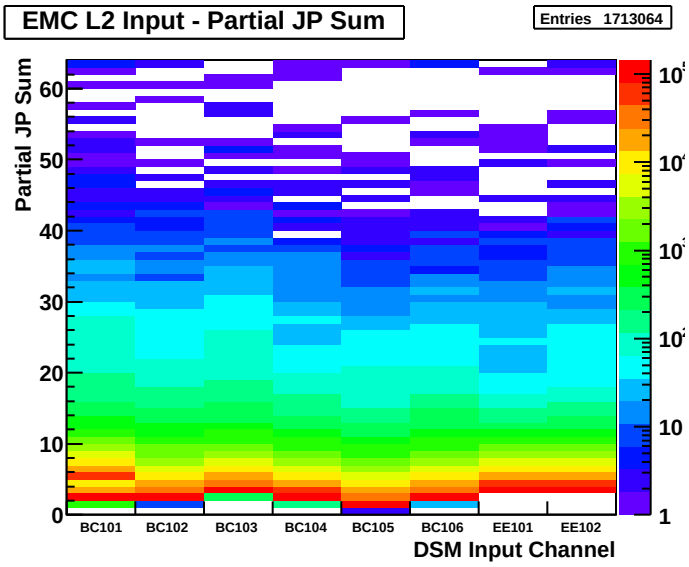

EMC L2 Input - JPX/JPA bits
Entries 196
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
148 1 1 2 1
43

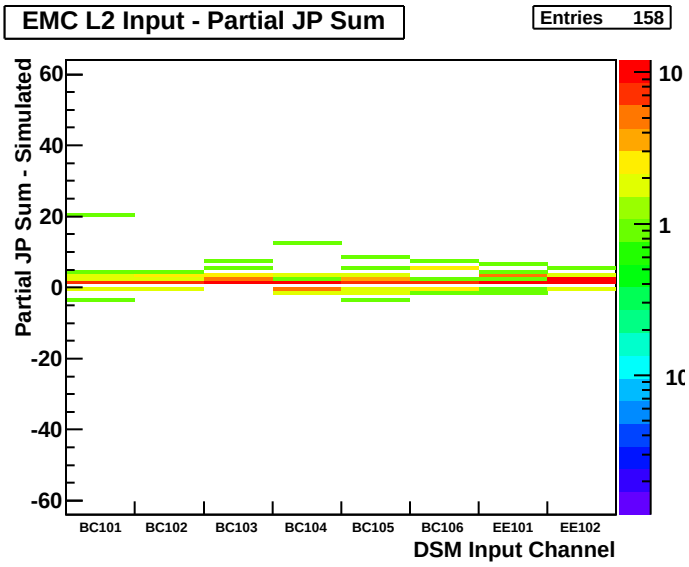

EMC L2 Input - JPY/JPB bits
Entries 1713064
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
326 233 262 105 140 329 69 76
1019 610 598 285 485 1266 177 197
2460 1435 1375 671 1556 2486 188 224
210328 211855 211908 213072 211952 210052 213699 213536

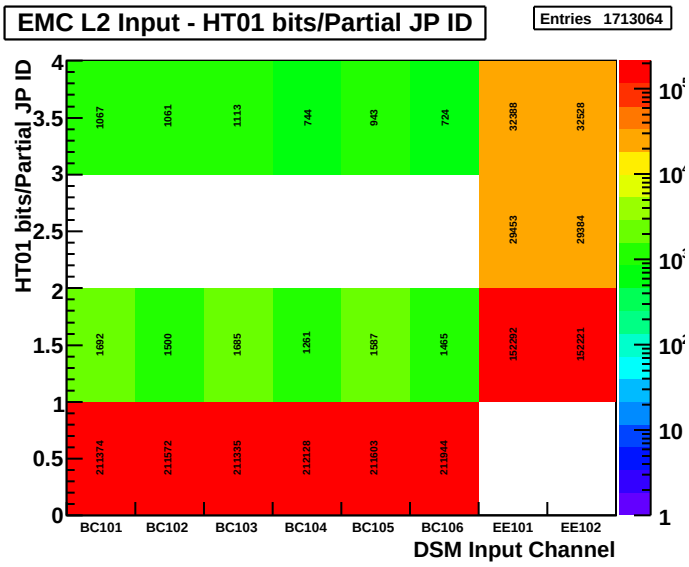

EMC L2 Input - JPY/JPB bits
Entries 191
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
92 1
88

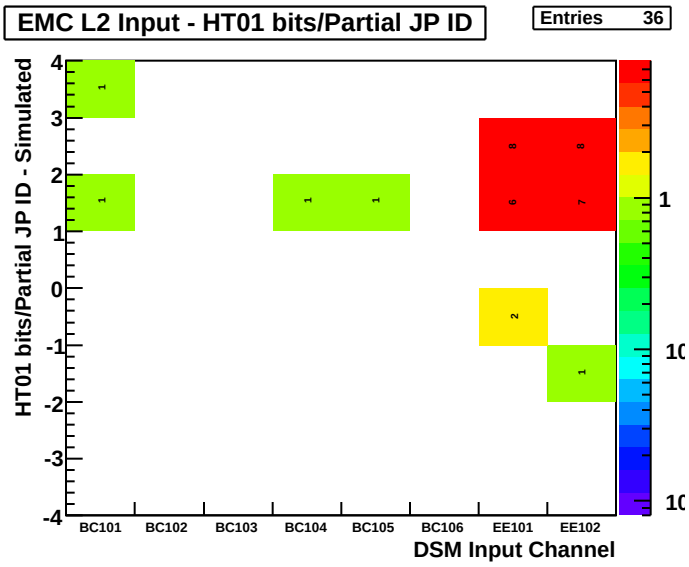

EMC L2 Input - JPZ/JPC bits
Entries 1713064
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
321 214 200 159 105 179 69 61
922 512 751 389 302 565 225 173
1482 907 1267 708 673 1188 247 236
211388 212500 211815 212877 213053 212201 213592 213663

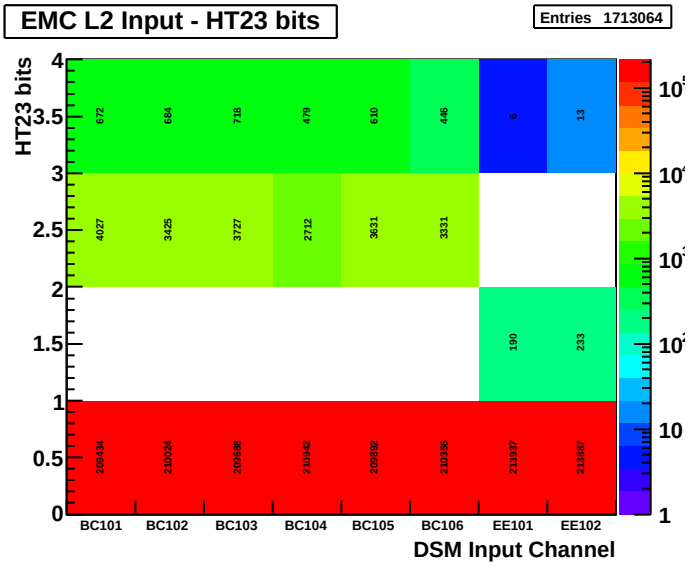

EMC L2 Input - JPZ/JPC bits
Entries 1
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

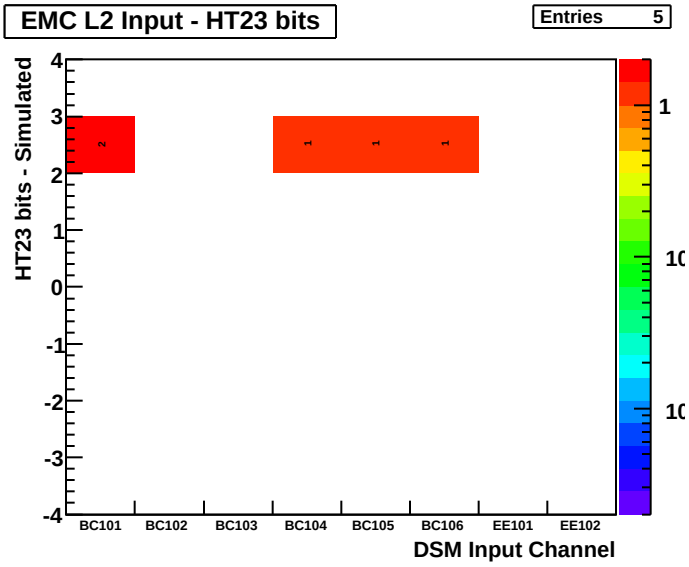

EMC L2 Input - Partial JP Sum
Entries 1713064
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

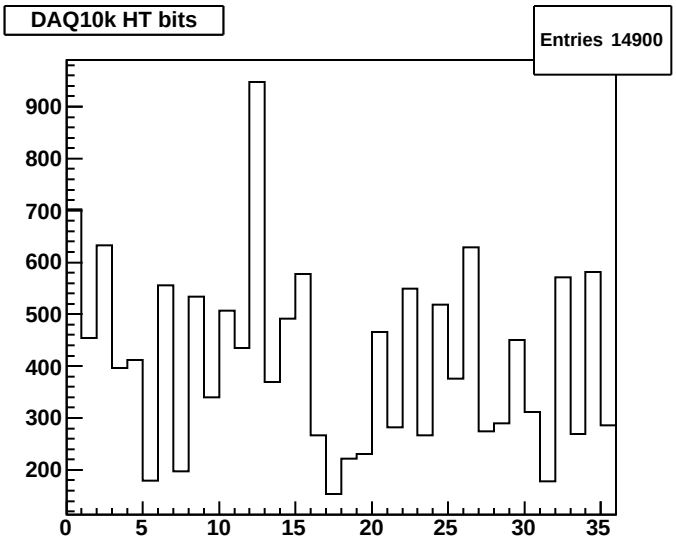

EMC L2 Input - Partial JP Sum
Entries 158
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

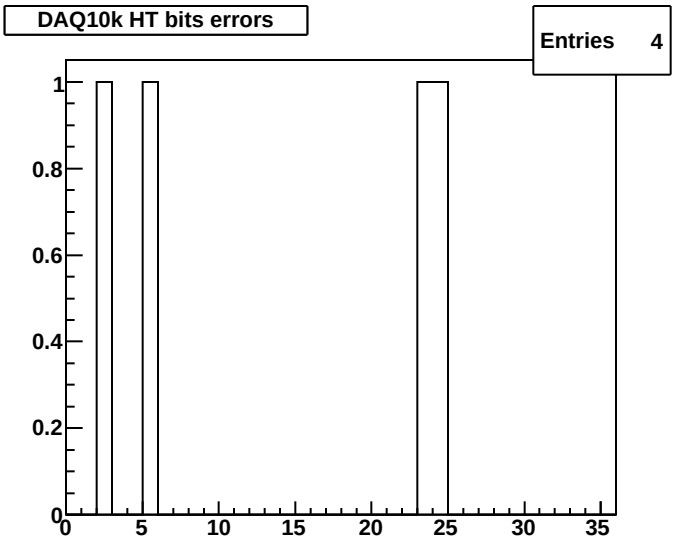

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1713064
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

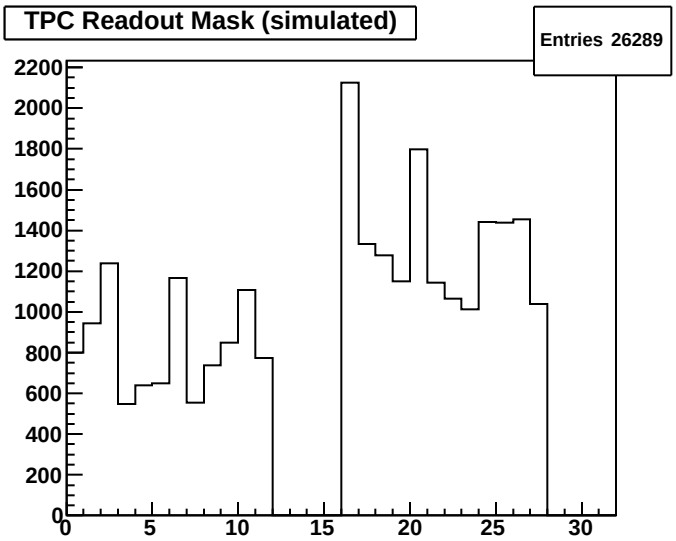

EMC L2 Input - HT01 bits/Partial JP ID
Entries 36
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

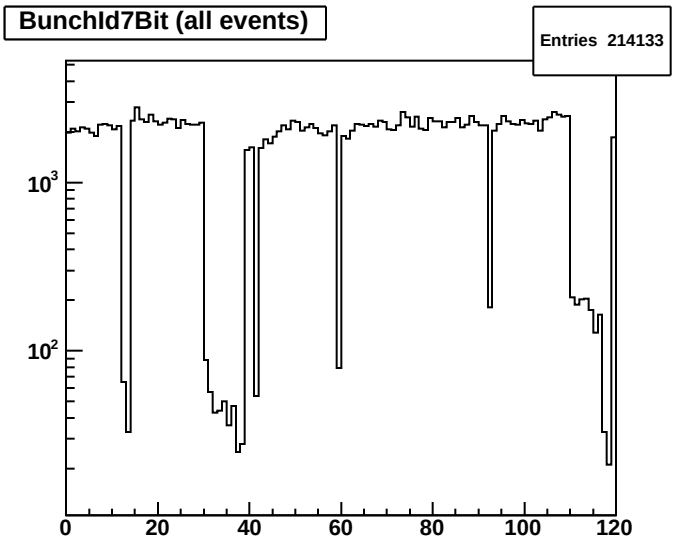

EMC L2 Input - HT23 bits
Entries 1713064
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

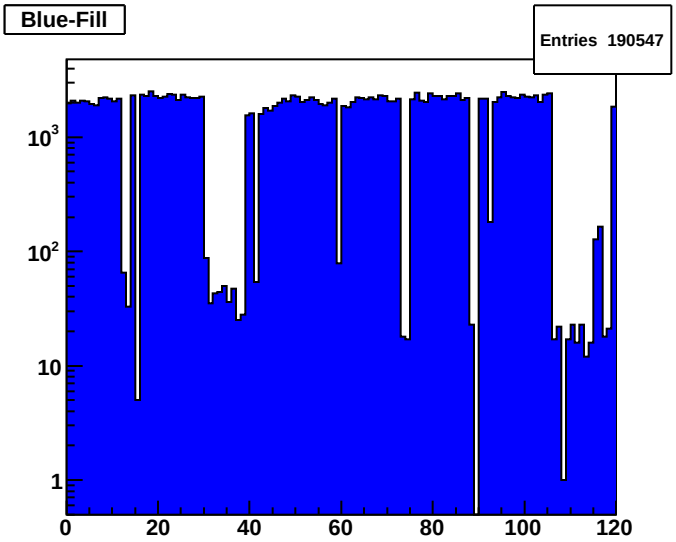

EMC L2 Input - HT23 bits
Entries 5
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

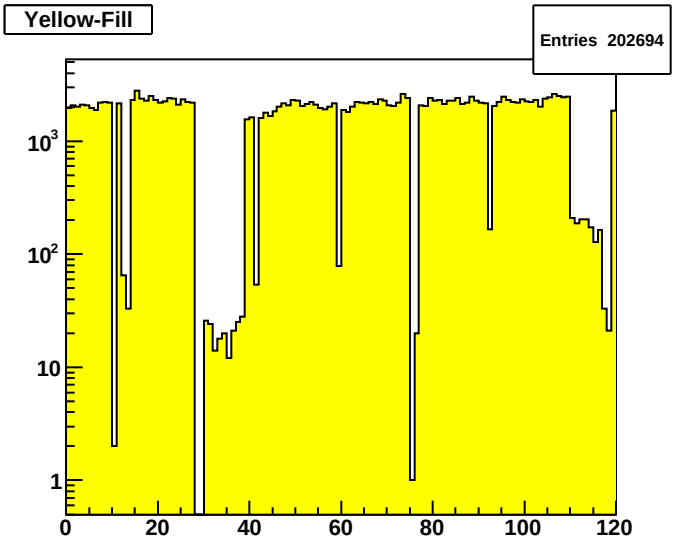

DAQ10k HT bits
Entries 14900

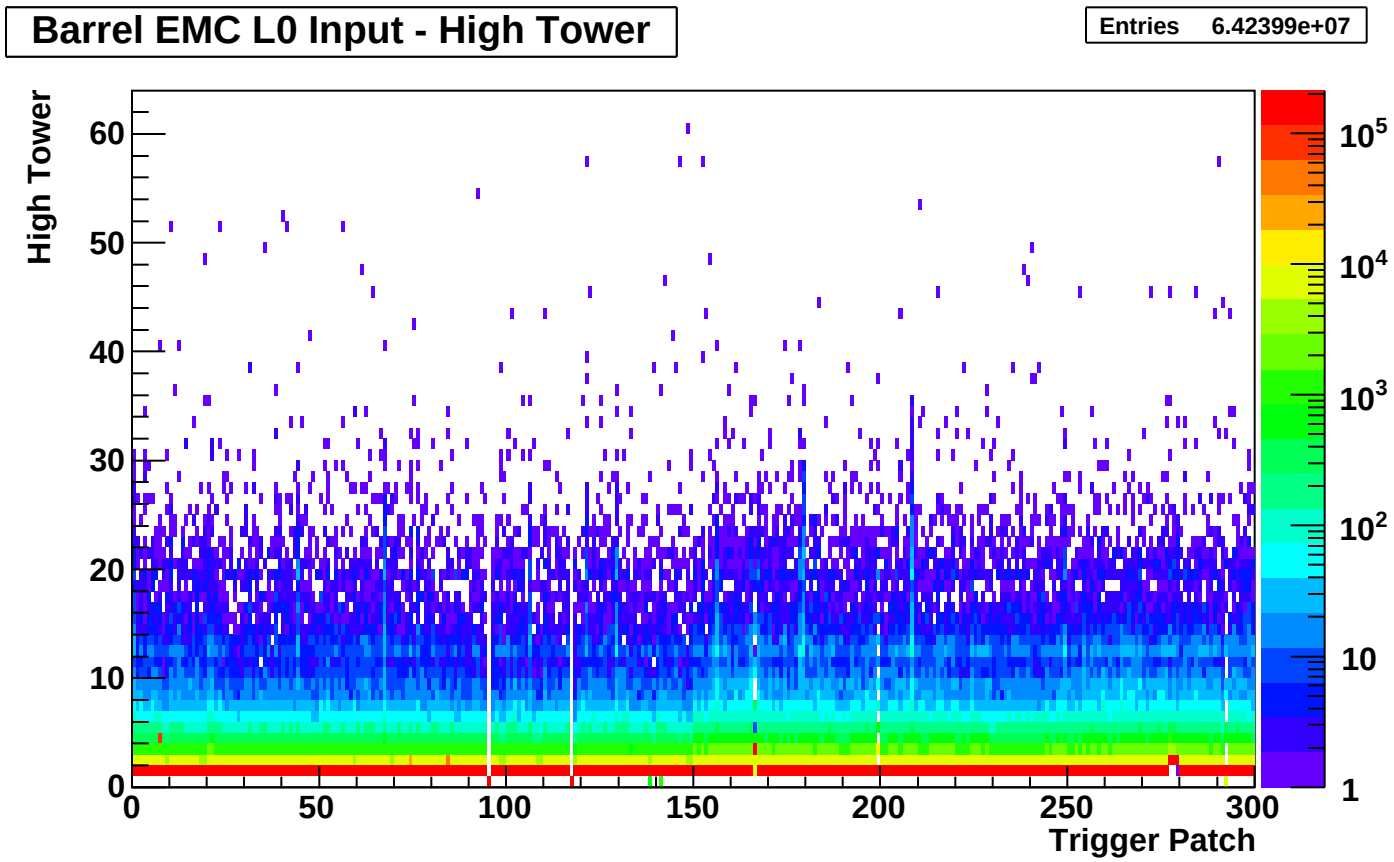

DAQ10k HT bits errors
Entries 4

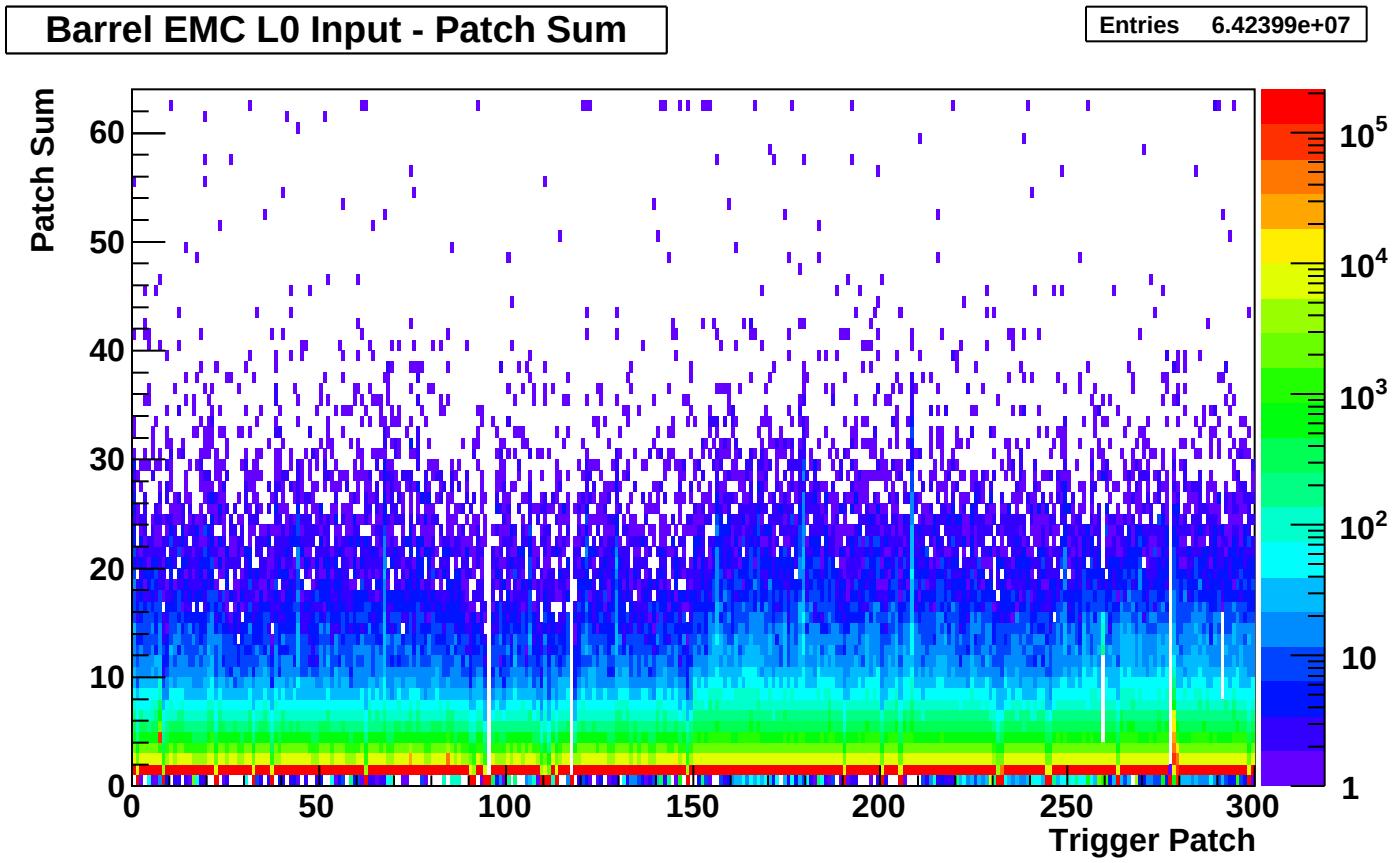

TPC Readout Mask (simulated)
Entries 26289

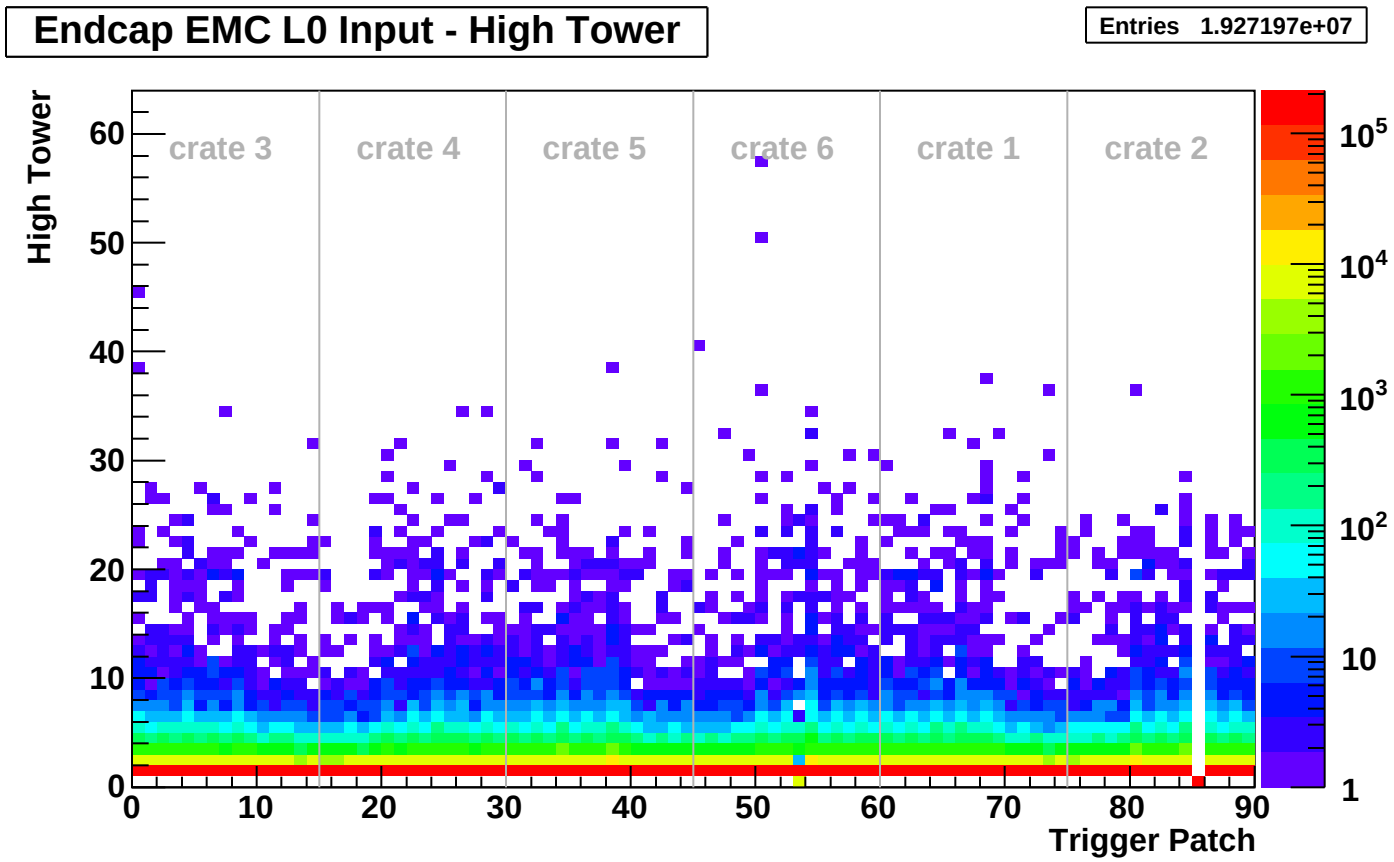

BunchId7Bit (all events)
Entries 214133

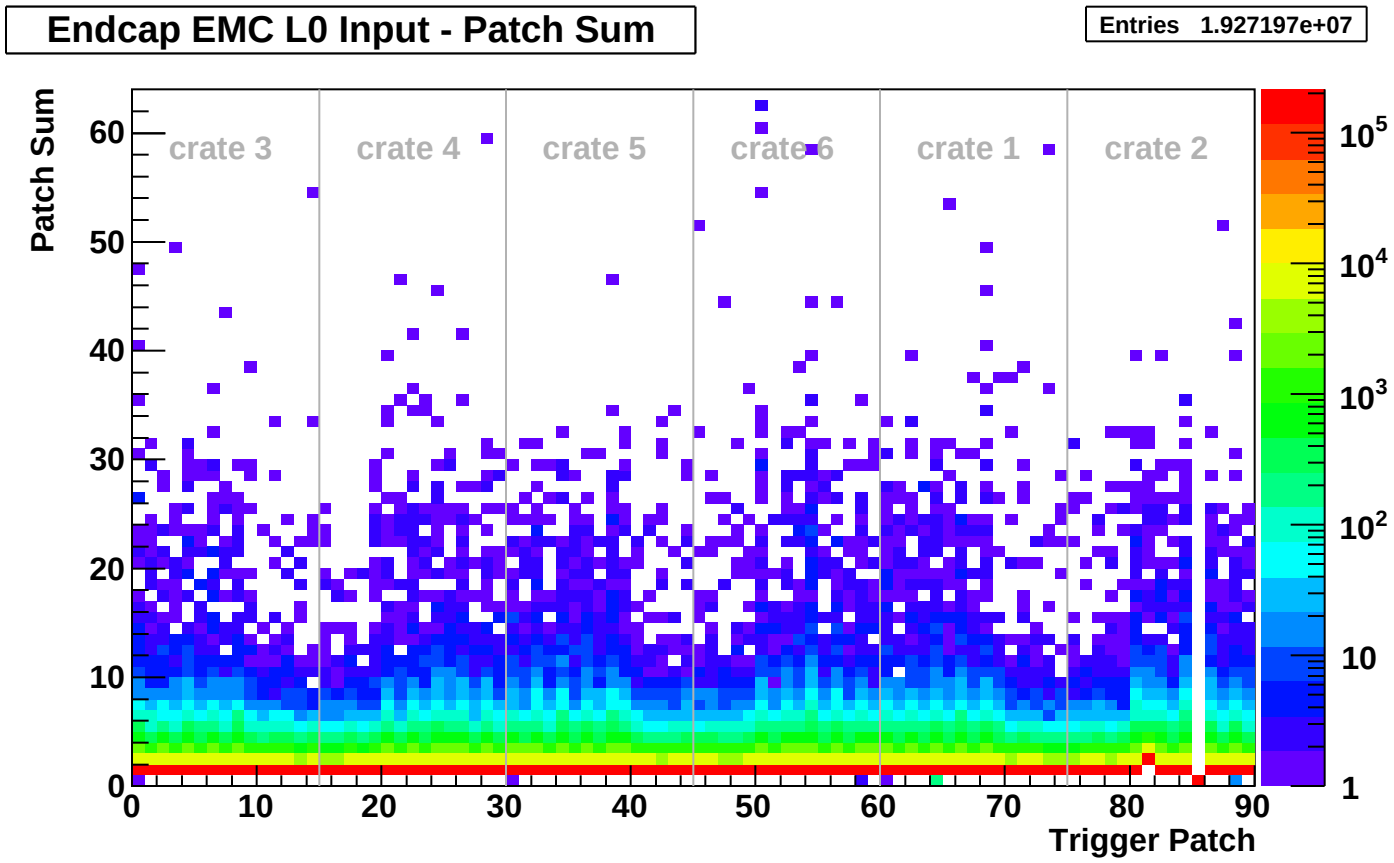

Blue-Fill
Entries 190547

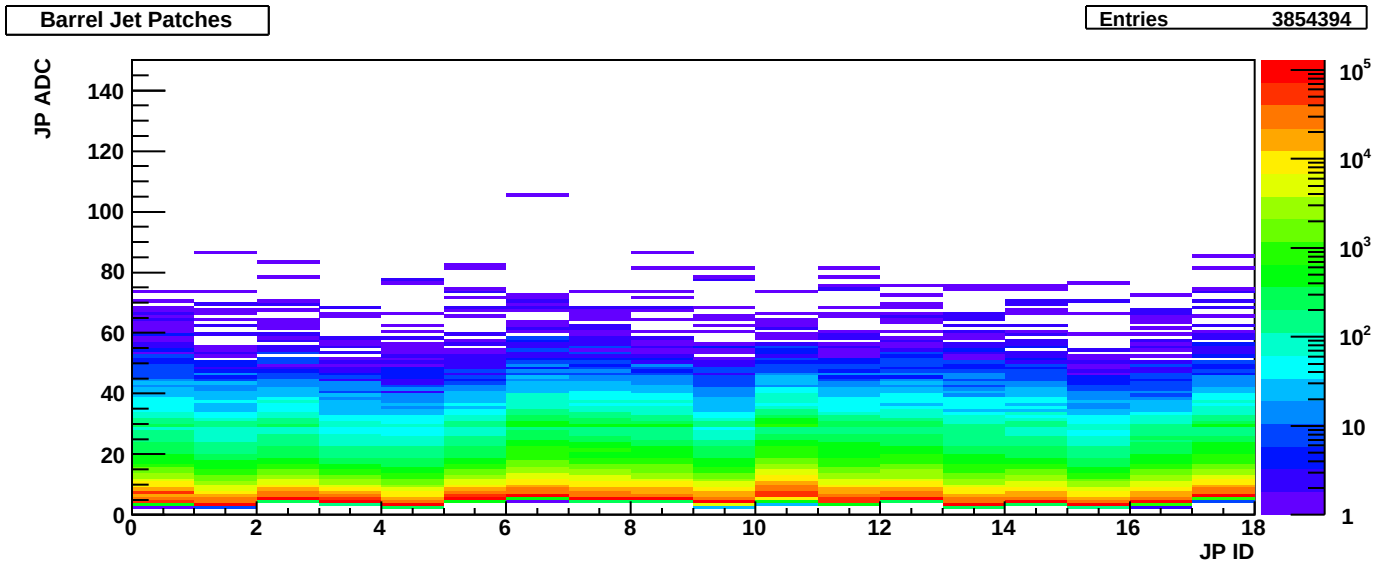

Yellow-Fill
Entries 202694

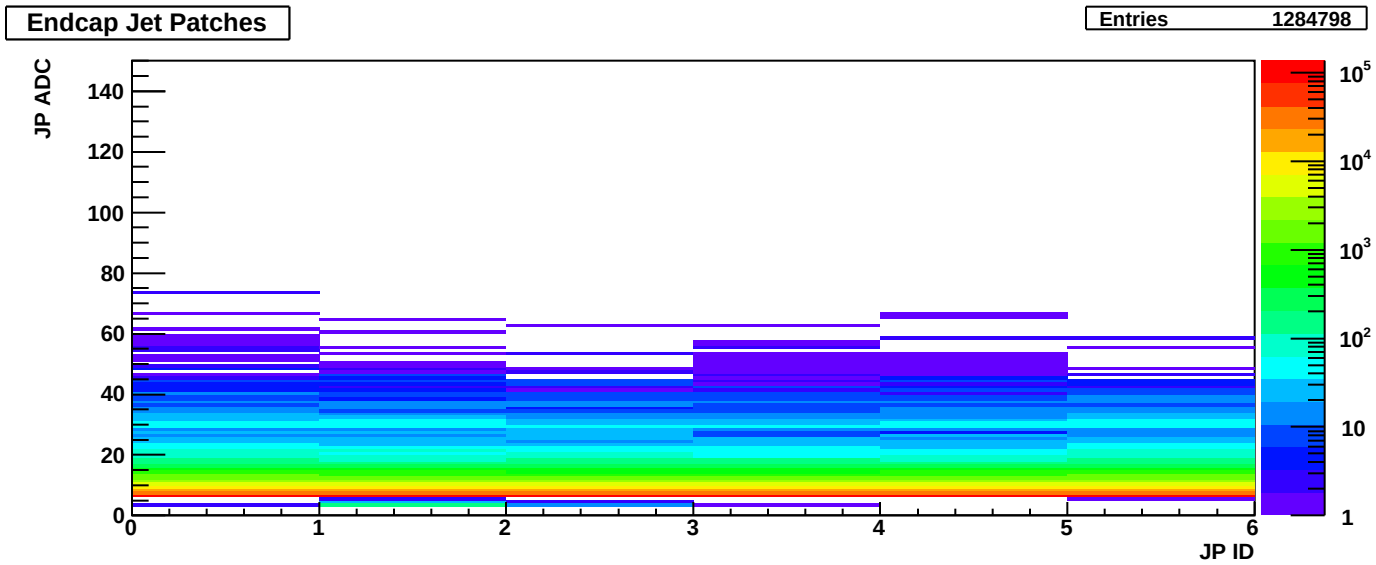

Barrel EMC L0 Input - High Tower
Entries 6.42399e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

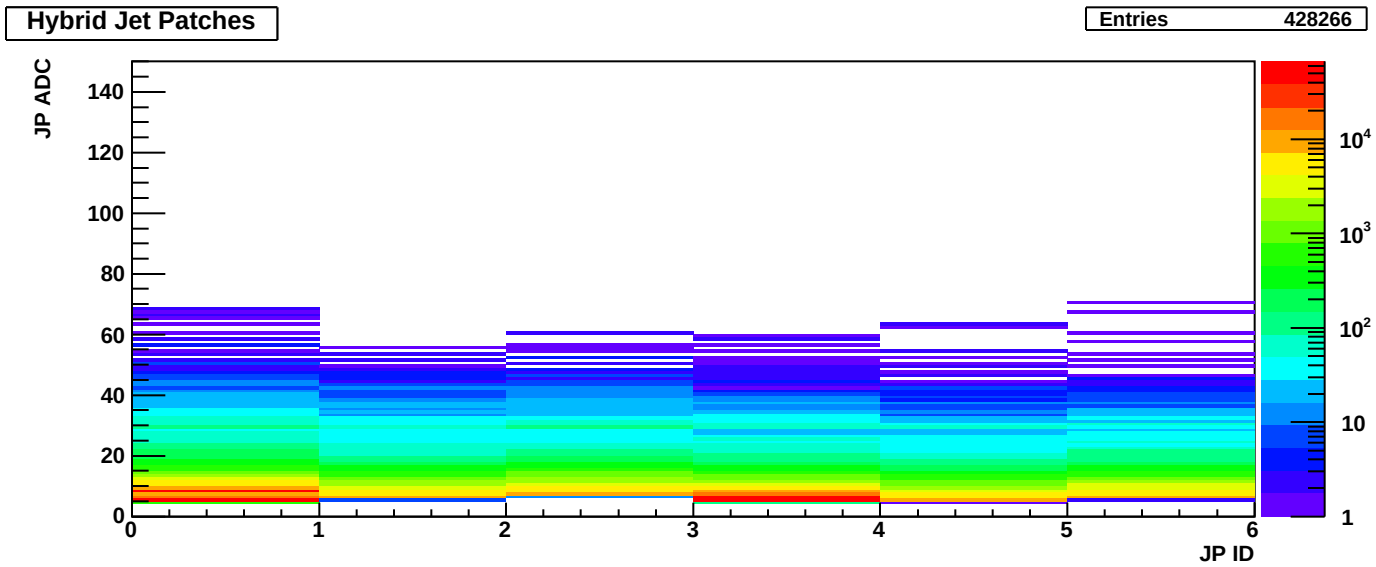

Barrel EMC L0 Input - Patch Sum
Entries 6.42399e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

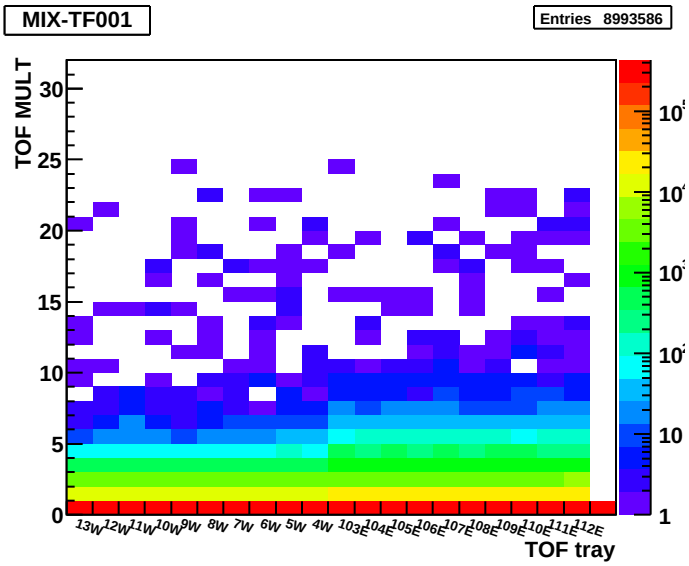

Endcap EMC L0 Input - High Tower
Entries 1.927197e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

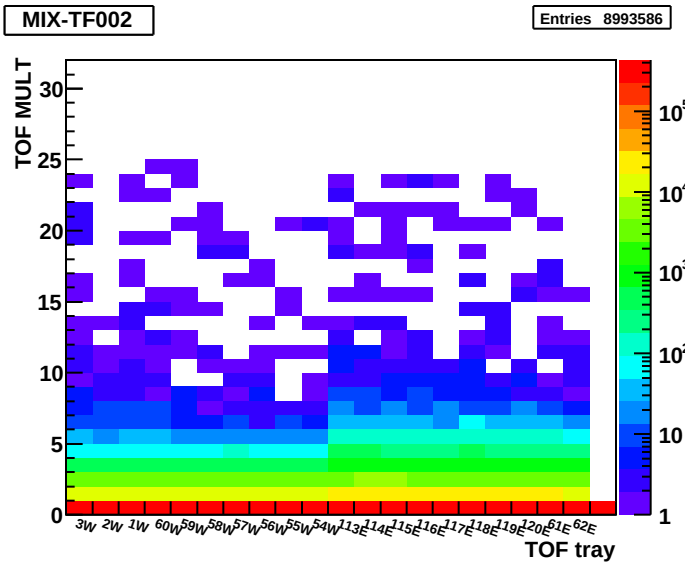

Endcap EMC L0 Input - Patch Sum
Entries 1.927197e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

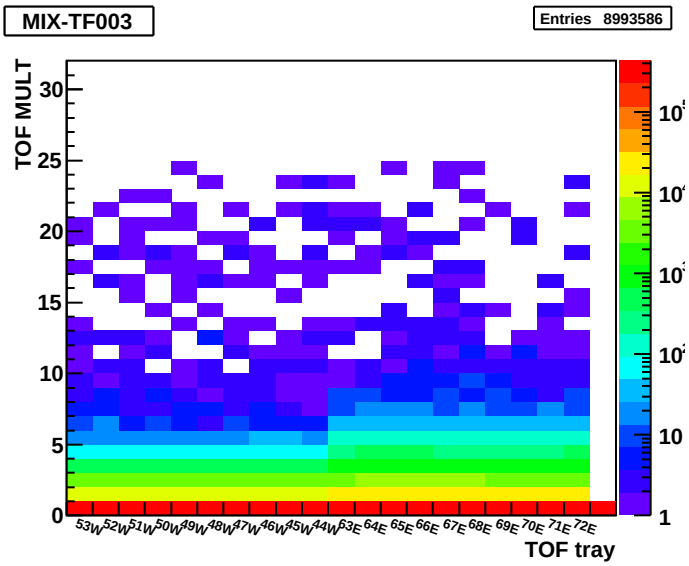

Barrel Jet Patches
Entries 3854394
JP ADC
JP ID

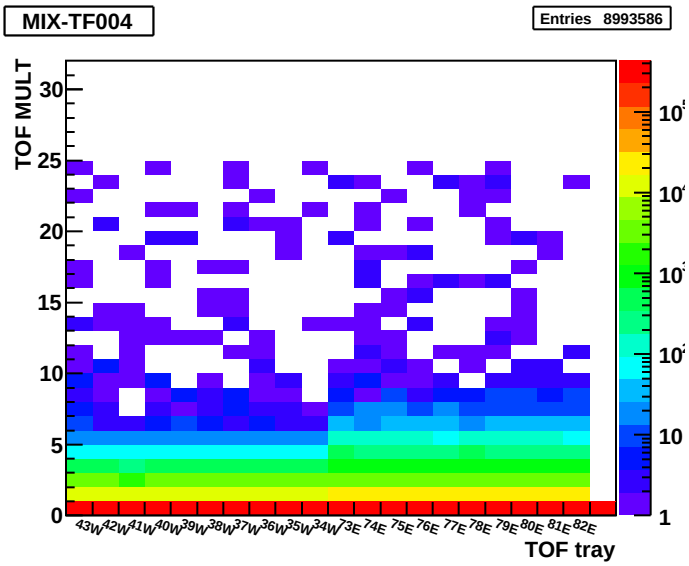

Endcap Jet Patches
Entries 1284798
JP ADC
JP ID

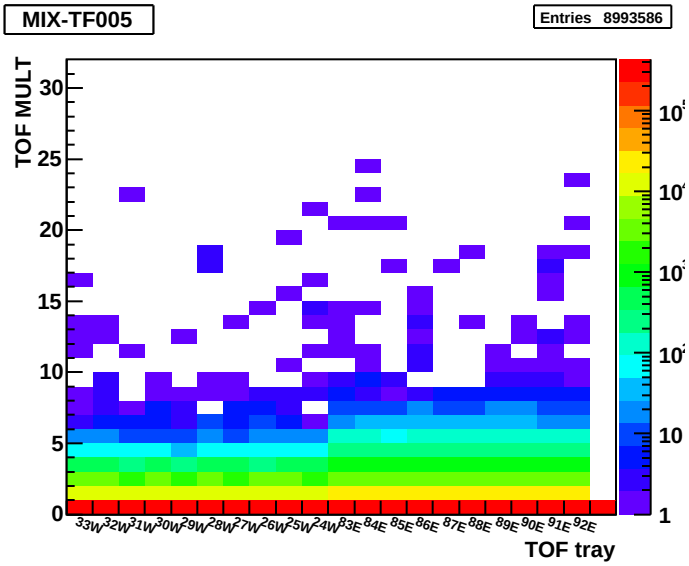

Hybrid Jet Patches
Entries 428266
JP ADC
JP ID

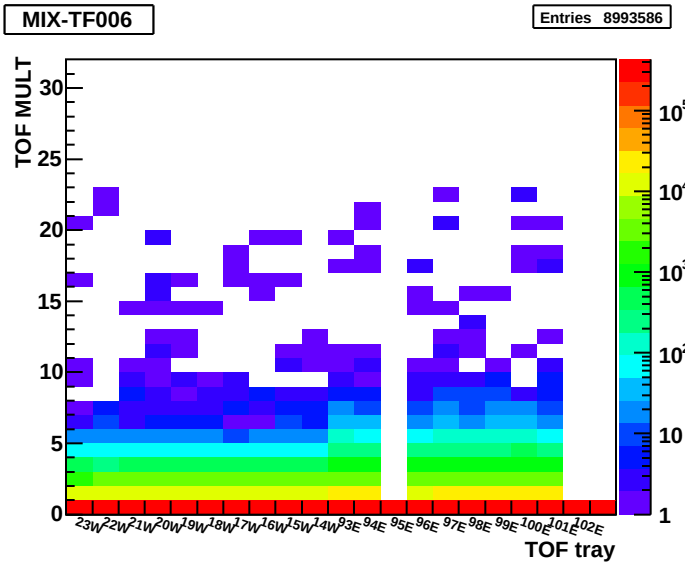

MIX-TF001
Entries 8993586
TOF MULT
TOF tray

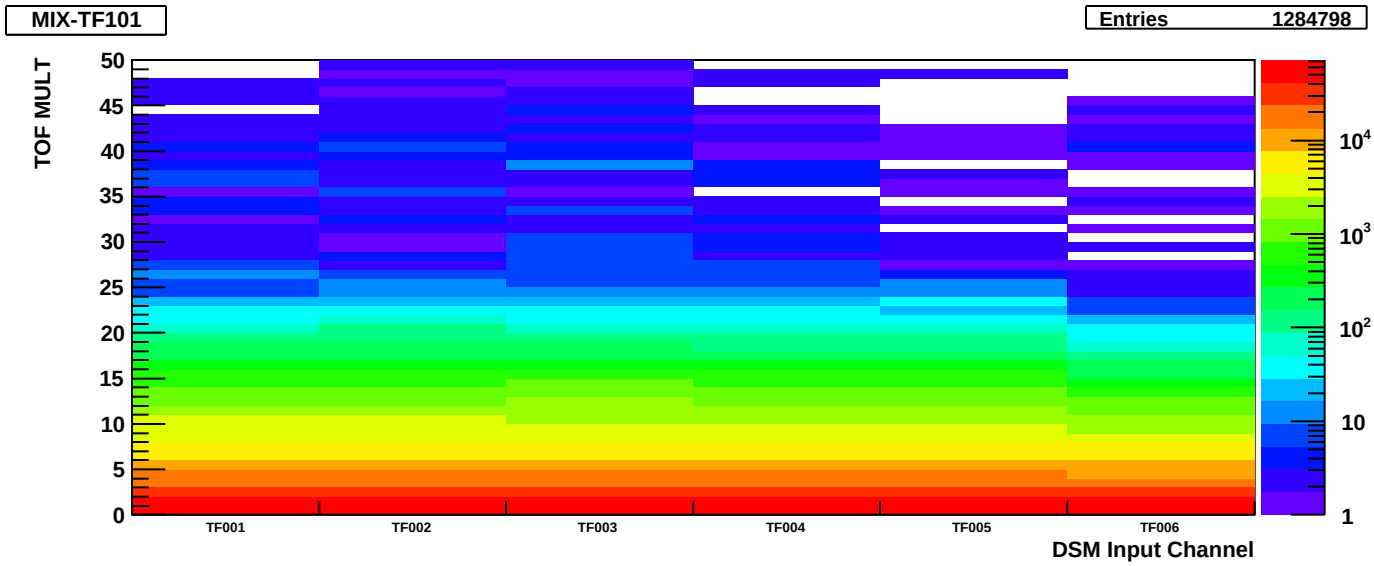

MIX-TF002
Entries 8993586
TOF MULT
TOF tray

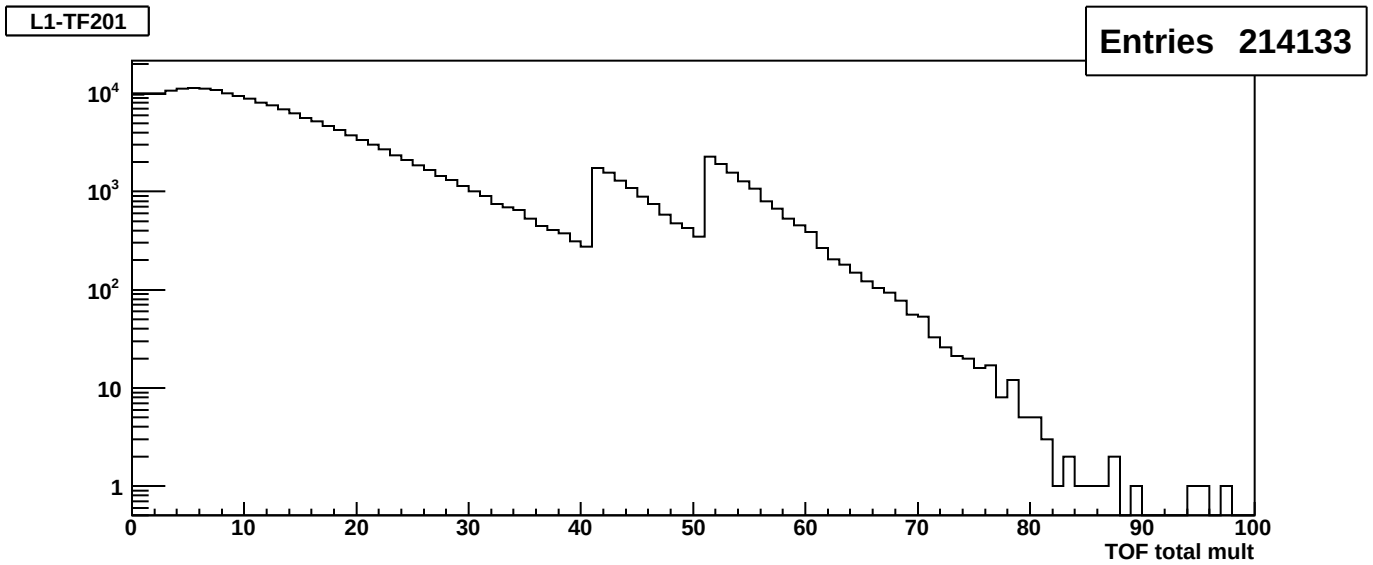

MIX-TF003
Entries 8993586
TOF MULT
TOF tray

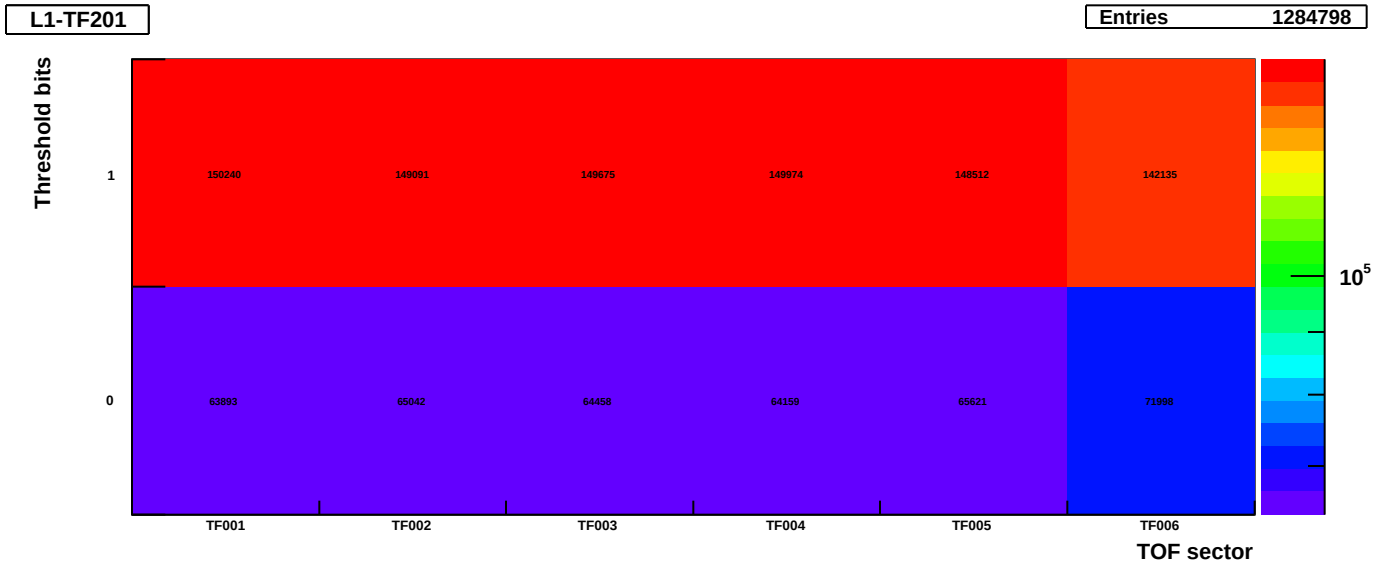

MIX-TF004
Entries 8993586
TOF MULT
TOF tray

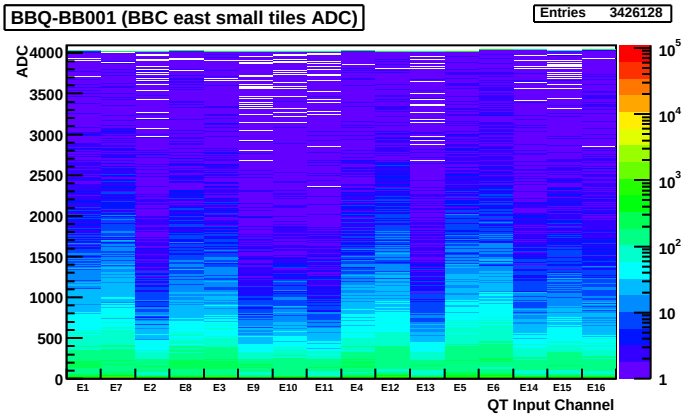

MIX-TF005
Entries 8993586
TOF MULT
TOF tray

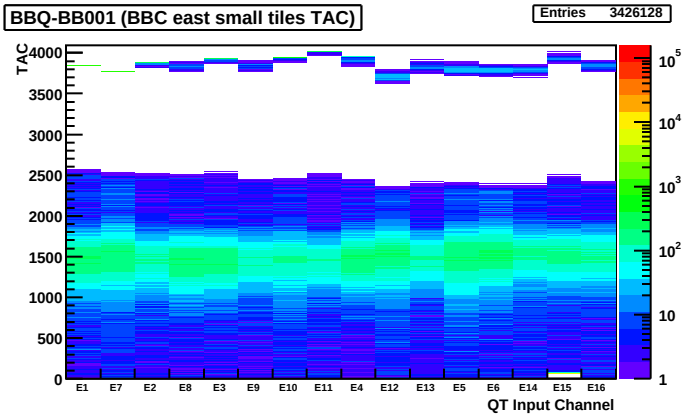

MIX-TF006
Entries 8993586
TOF MULT
TOF tray

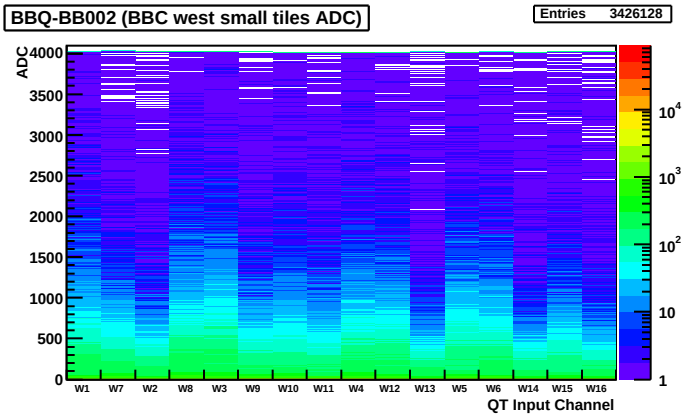

MIX-TF101
Entries 1284798
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

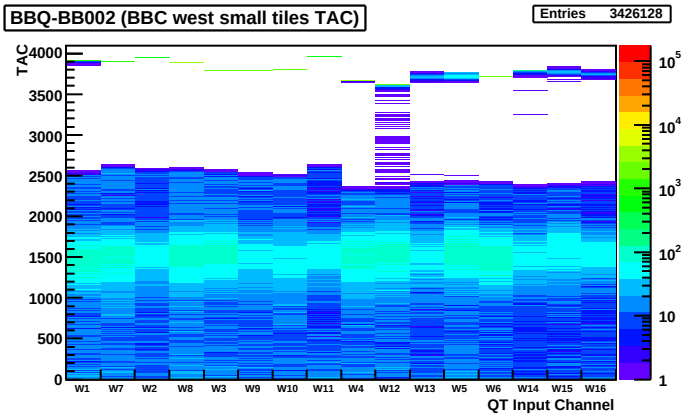

L1-TF201
Entries 214133
TOF total mult

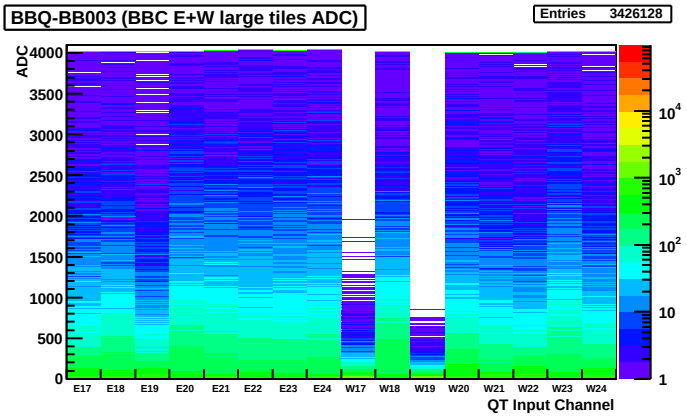

L1-TF201
Entries 1284798
Threshold bits
150240
149091
149675
149974
148512
142135
63893
65042
64458
64159
65621
71998
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

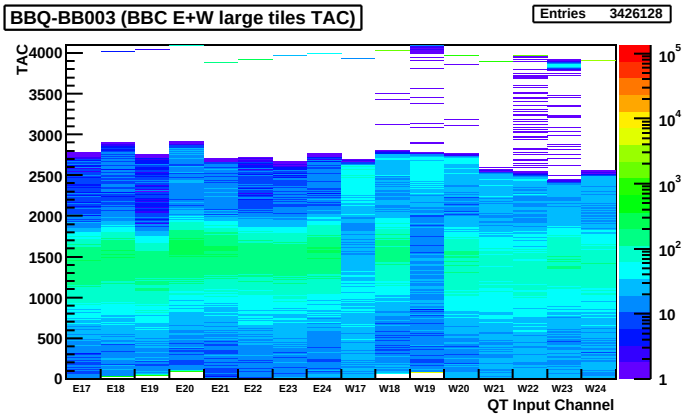

BBQ-BB001 (BBC east small tiles ADC)
Entries 3426128
ADC
QT Input Channel

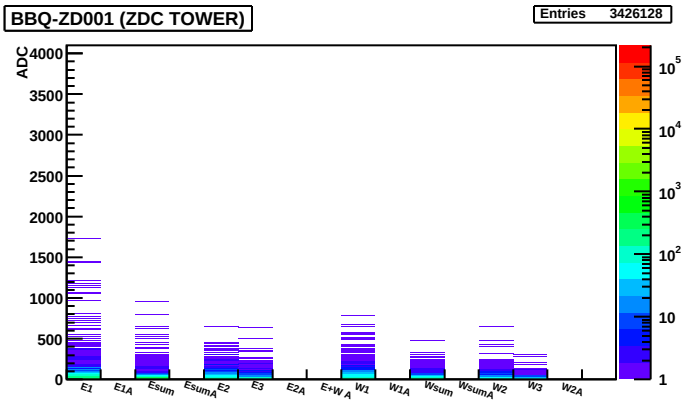

BBQ-BB001 (BBC east small tiles TAC)
Entries 3426128
TAC
QT Input Channel

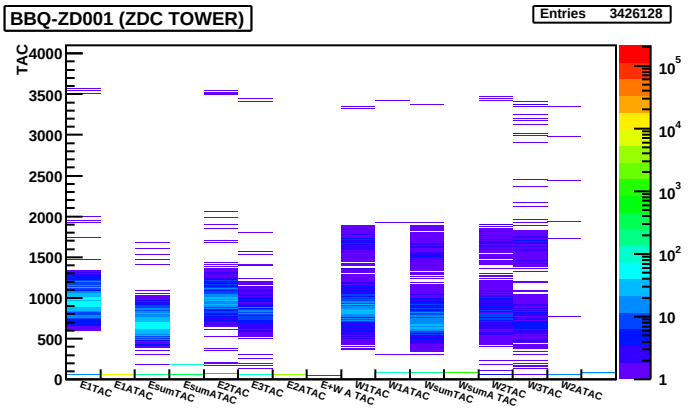

BBQ-BB002 (BBC west small tiles ADC)
Entries 3426128
ADC
QT Input Channel

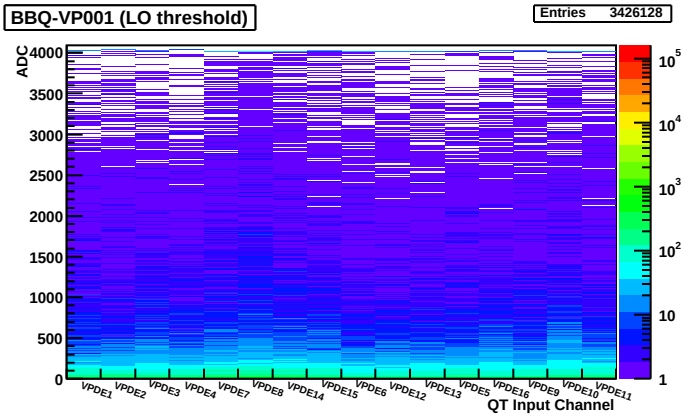

BBQ-BB002 (BBC west small tiles TAC)
Entries 3426128
TAC
QT Input Channel

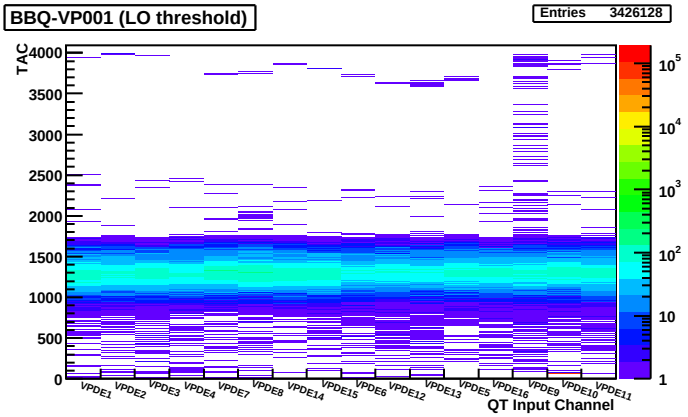

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3426128
ADC
QT Input Channel

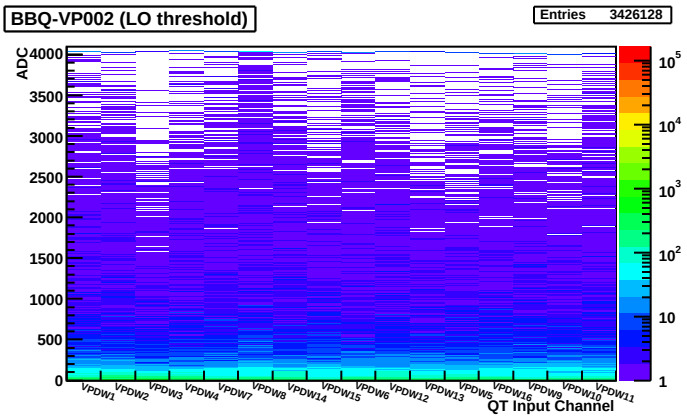

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3426128
TAC
QT Input Channel

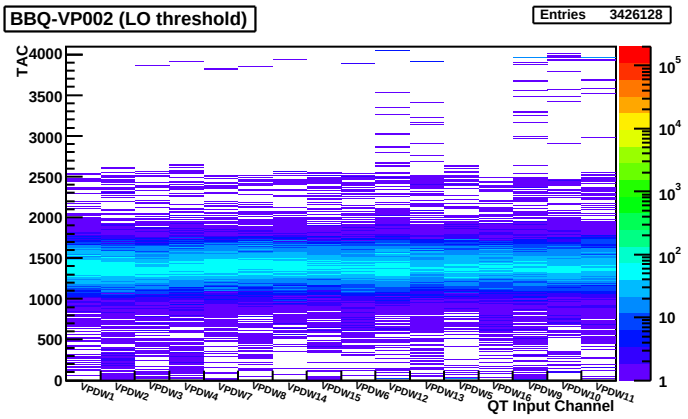

BBQ-ZD001 (ZDC TOWER)
Entries 3426128
ADC

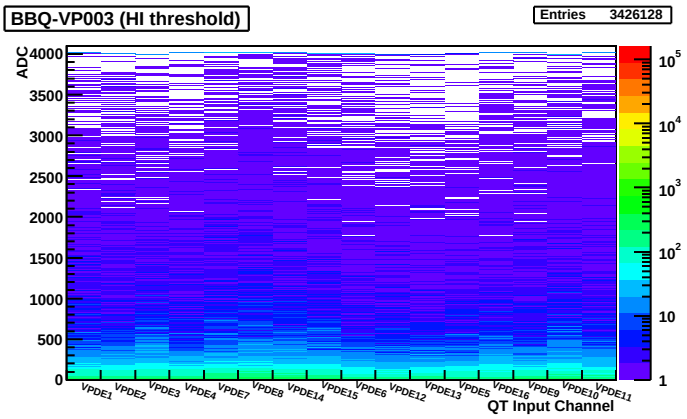

BBQ-ZD001 (ZDC TOWER)
Entries 3426128
TAC

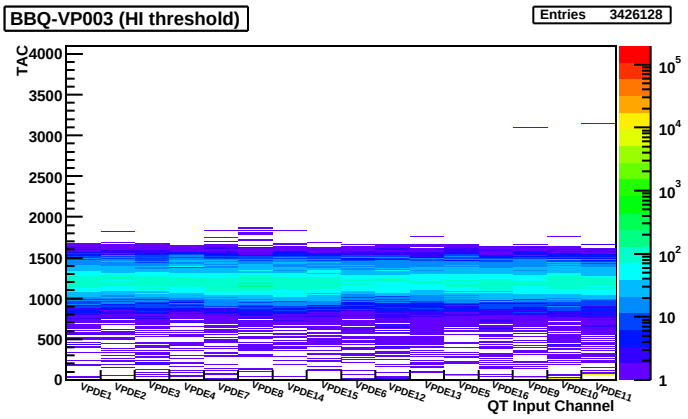

BBQ-VP001 (LO threshold)
Entries 3426128
ADC
QT Input Channel

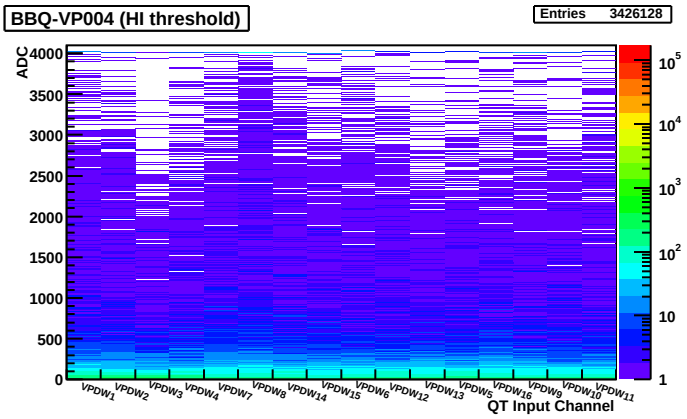

BBQ-VP001 (LO threshold)
Entries 3426128
TAC
QT Input Channel

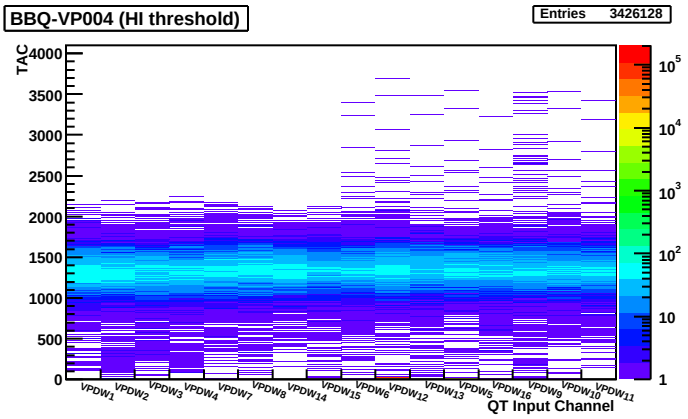

BBQ-VP002 (LO threshold)
Entries 3426128
ADC
QT Input Channel

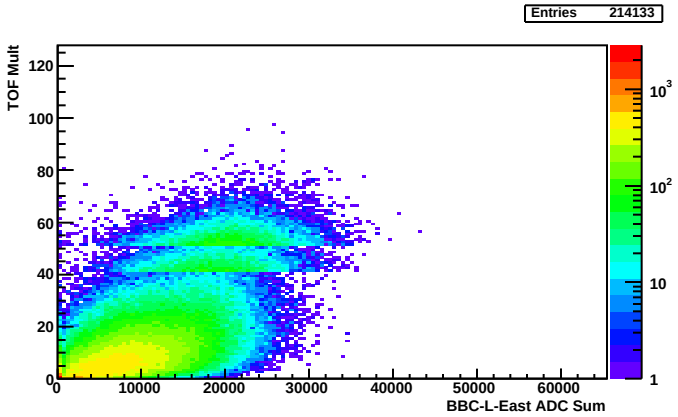

BBQ-VP002 (LO threshold)
Entries 3426128
TAC
QT Input Channel

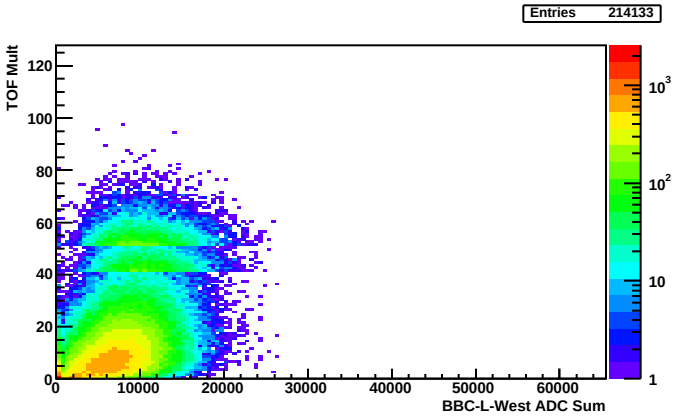

BBQ-VP003 (HI threshold)
Entries 3426128
ADC
QT Input Channel

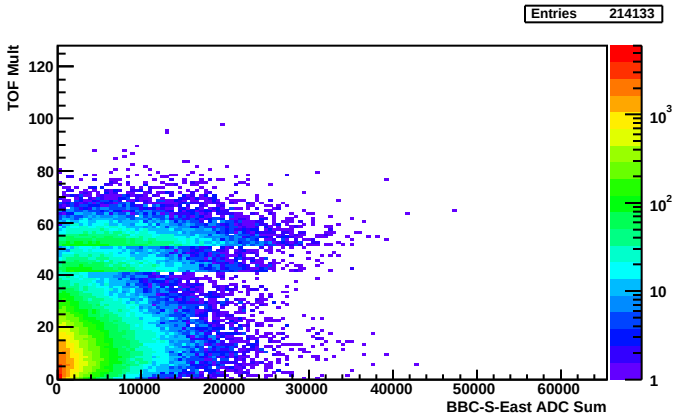

BBQ-VP003 (HI threshold)
Entries 3426128
TAC
QT Input Channel

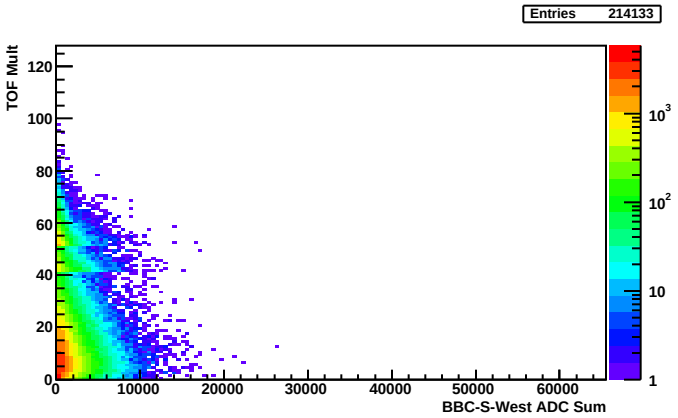

BBQ-VP004 (HI threshold)
Entries 3426128
ADC
QT Input Channel

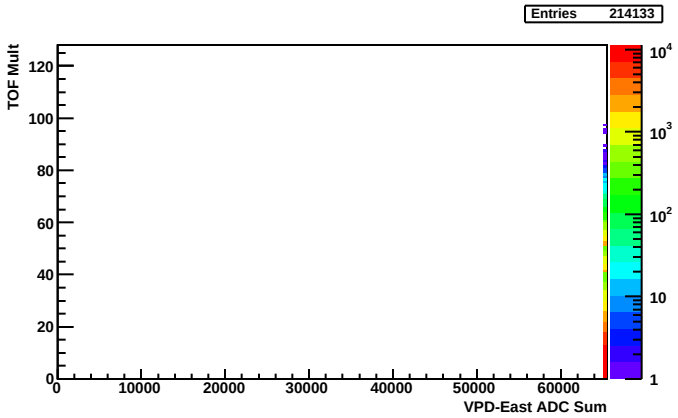

BBQ-VP004 (HI threshold)
Entries 3426128
TAC
QT Input Channel

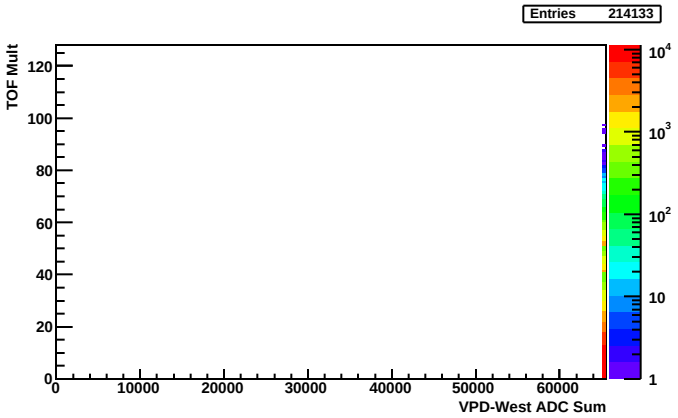

Entries 214133
TOF Mult
BBC-L-East ADC Sum

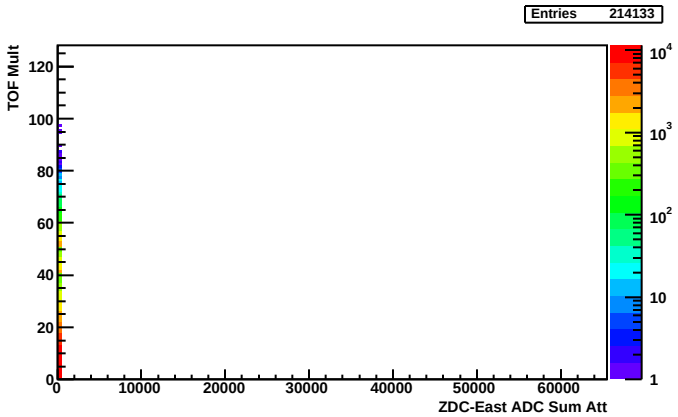

Entries 214133
TOF Mult
BBC-L-West ADC Sum

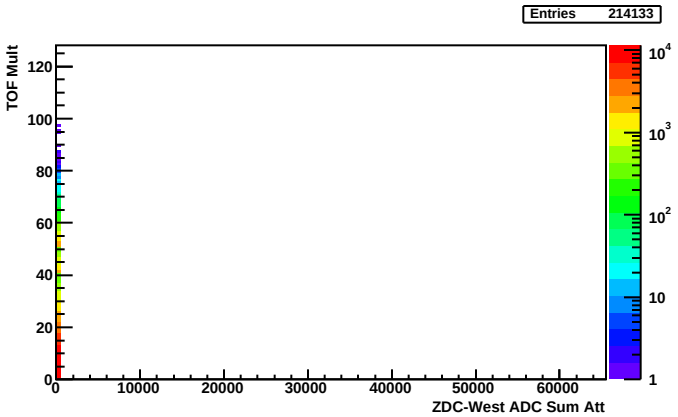

Entries 214133
TOF Mult
BBC-S-East ADC Sum

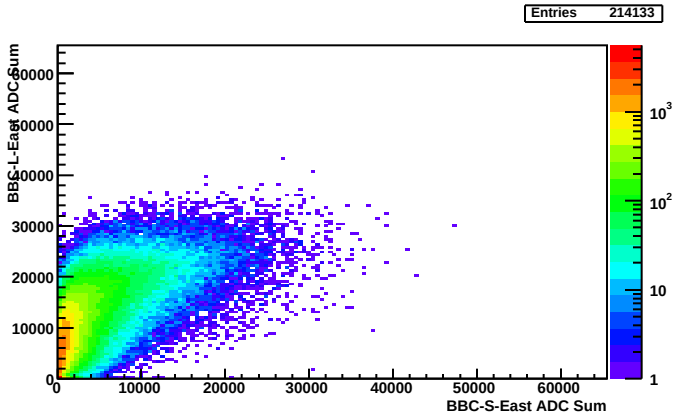

Entries 214133
TOF Mult
BBC-S-West ADC Sum

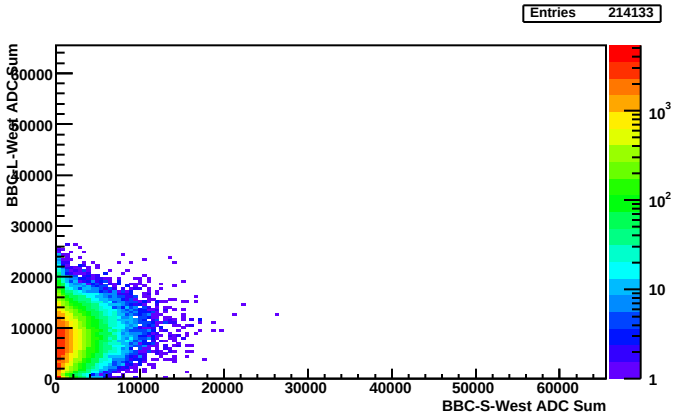

Entries 214133
TOF Mult
VPD-East ADC Sum

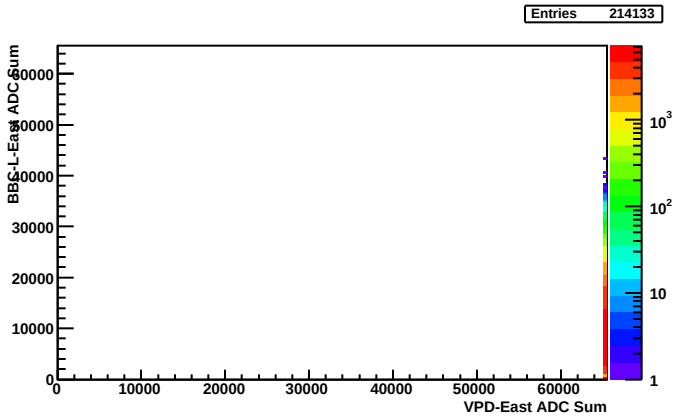

Entries 214133
TOF Mult
VPD-West ADC Sum

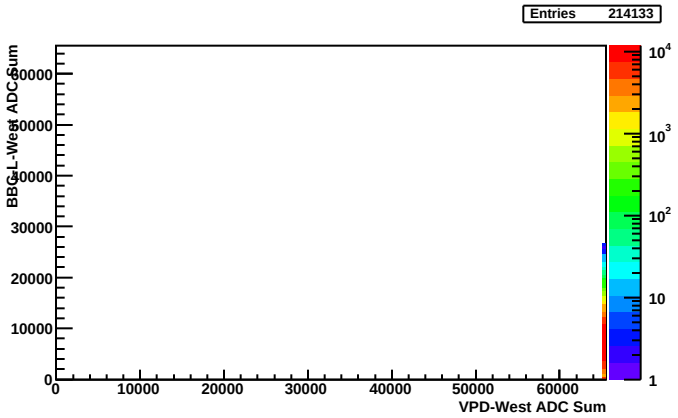

Entries 214133
TOF Mult
ZDC-East ADC Sum Att

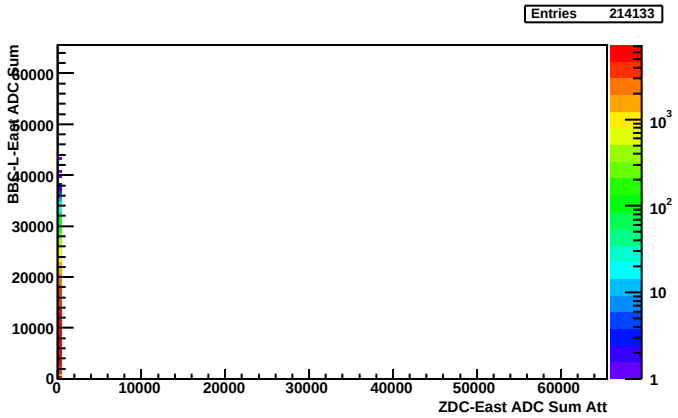

Entries 214133
TOF Mult
ZDC-West ADC Sum Att


Entries 214133
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 214133
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 214133
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 214133
BBC-L-West ADC Sum
VPD-West ADC Sum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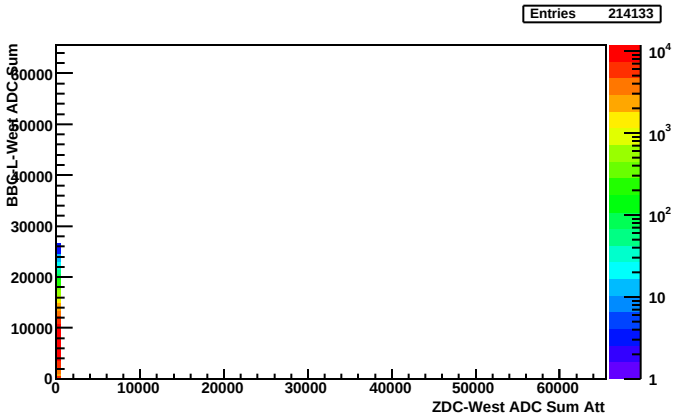
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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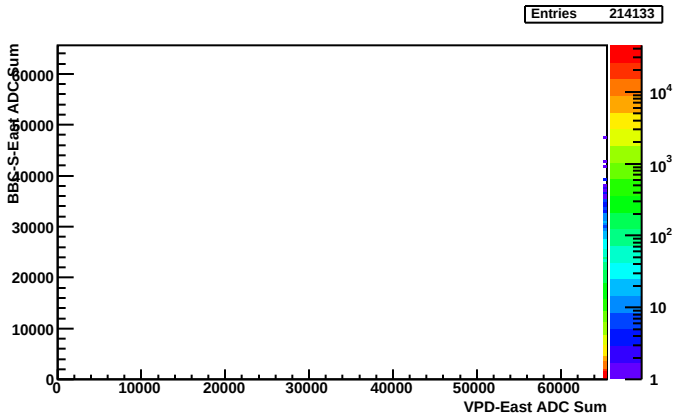
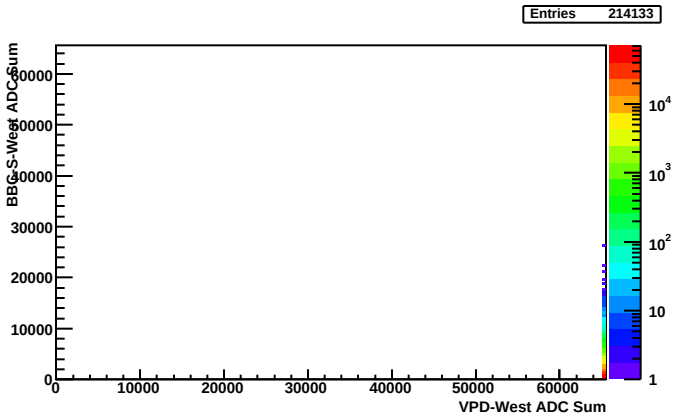
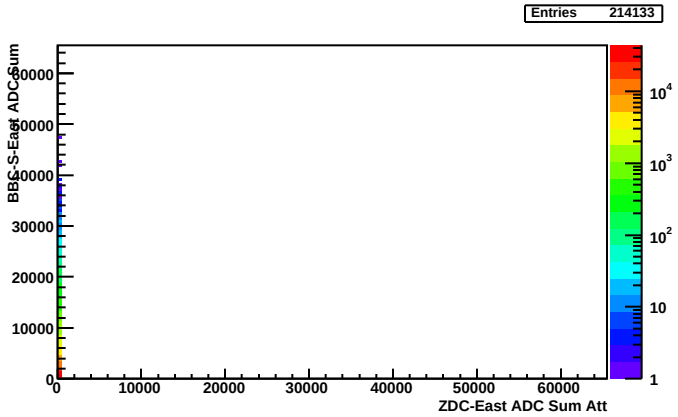
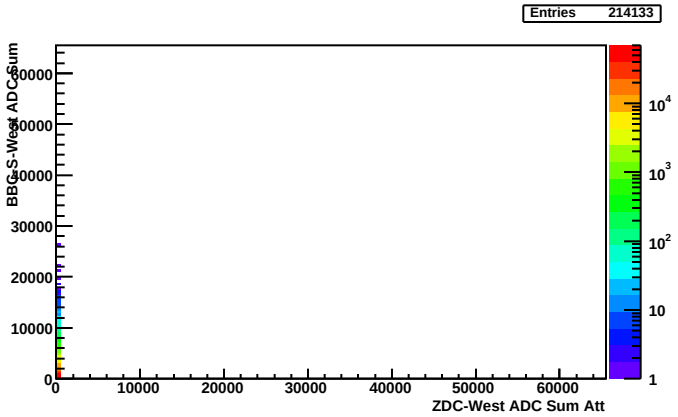
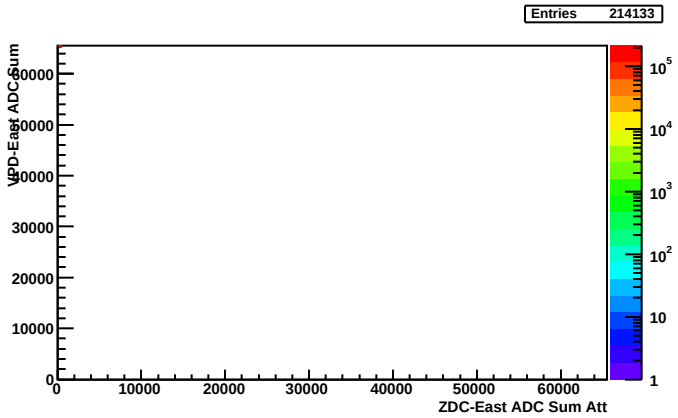
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

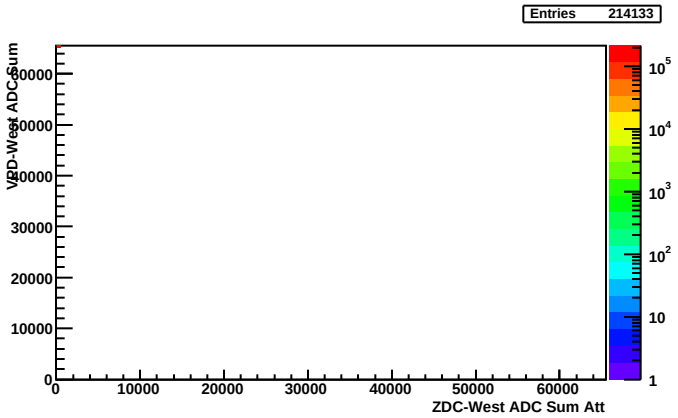

Entries 214133
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 214133
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 214133
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 214133
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 214133
VPD-East ADC Sum
ZDC-East ADC Sum Att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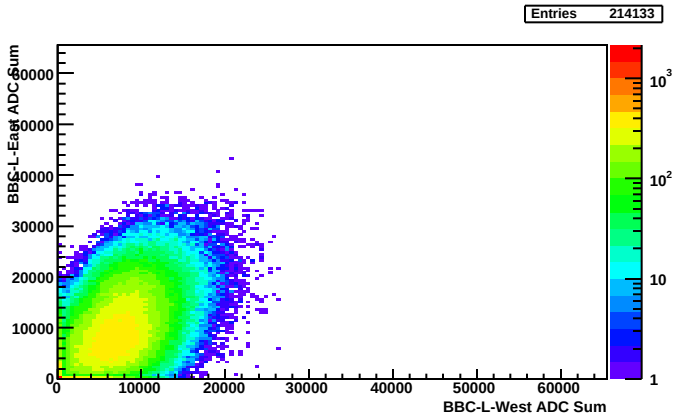
VPD-West ADC Sum
ZDC-West ADC Sum Att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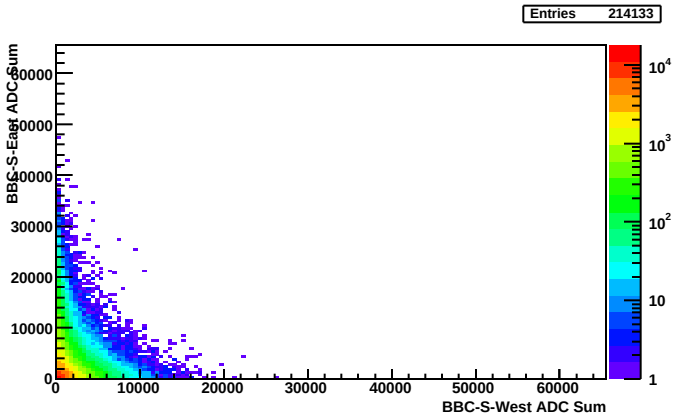
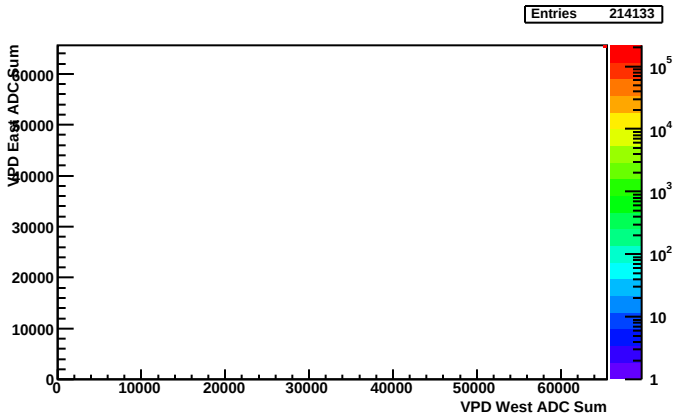
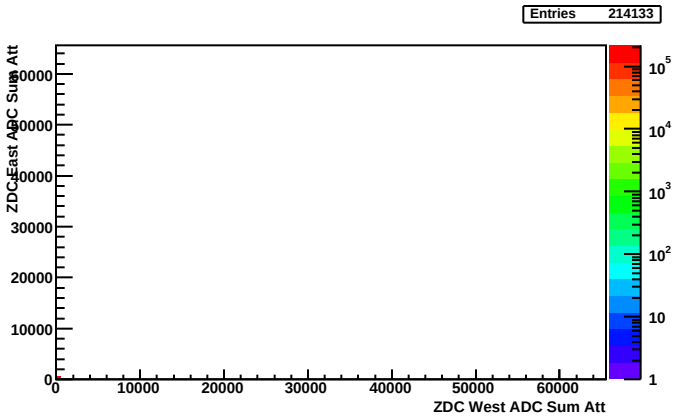
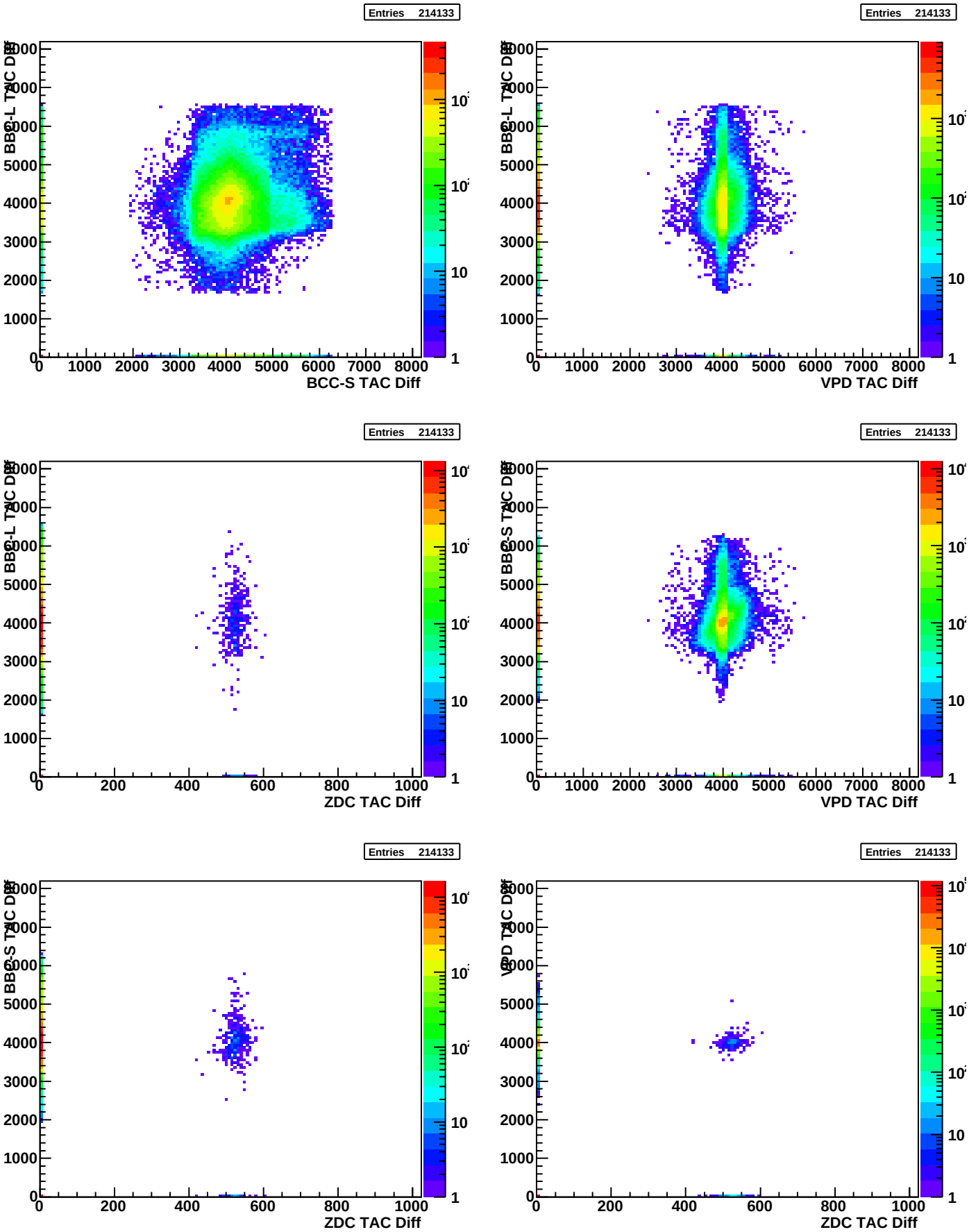
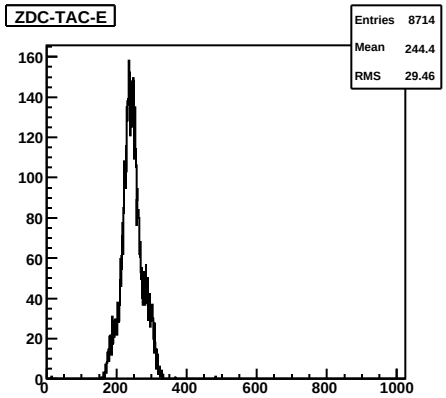
BBC-L-East ADC Sum
BBC-L-West ADC Sum

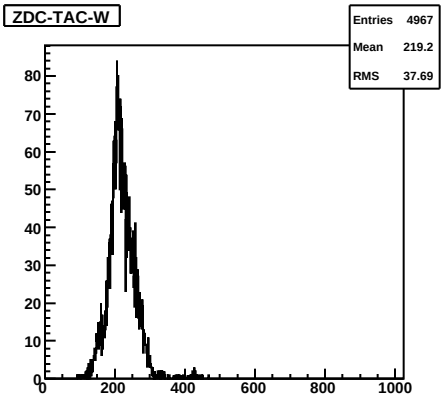

Entries 214133
BBC-S-East ADC Sum
BBC-S-West ADC Sum

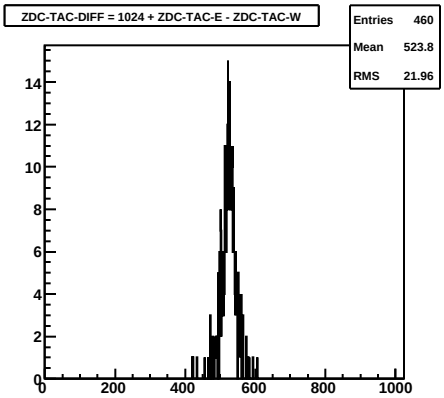

Entries 214133
VPD East ADC Sum
VPD West ADC Sum

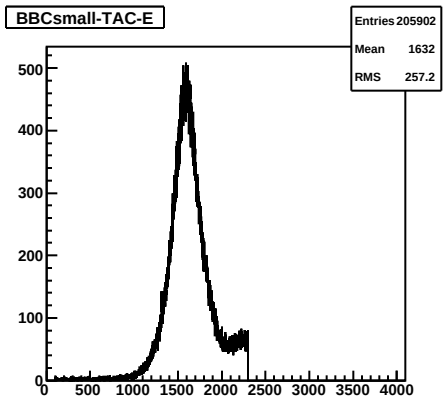

Entries 214133
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

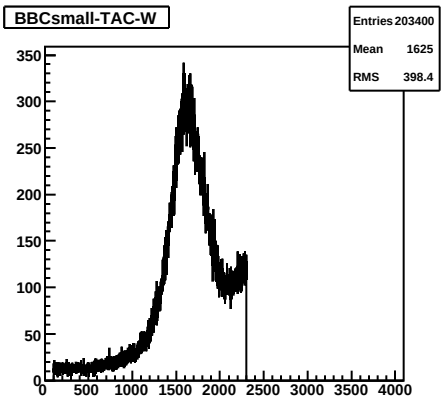

Entries 214133
BBC-L TAC Diff
BCC-S TAC Diff
Entries 214133
BBC-L TAC Diff
VPD TAC Diff
Entries 214133
BBC-L TAC Diff
ZDC TAC Diff
Entries 214133
BBC-S TAC Diff
VPD TAC Diff
Entries 214133
BBC-S TAC Diff
ZDC TAC Diff
Entries 214133
VPD TAC Diff
ZDC TAC Diff

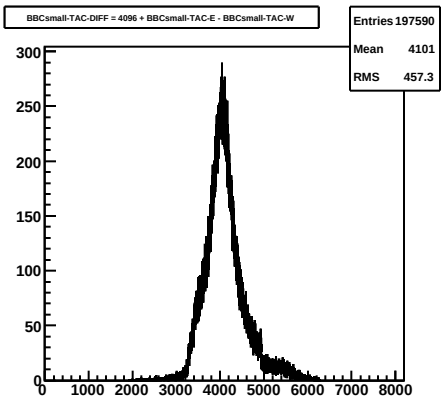

ZDC-TAC-E
Entries 8714
Mean 244.4
RMS 29.46

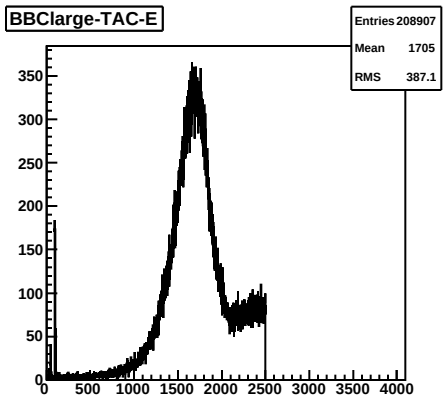

ZDC-TAC-W
Entries 4967
Mean 219.2
RMS 37.69

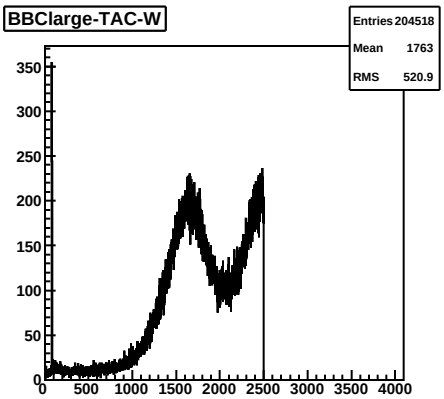

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 460
Mean 523.8
RMS 21.96

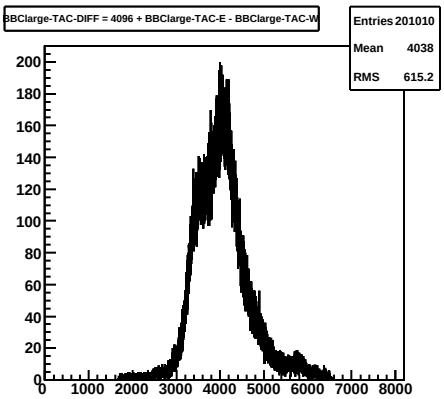

BBCsmall-TAC-E
Entries 205902
Mean 1632
RMS 257.2

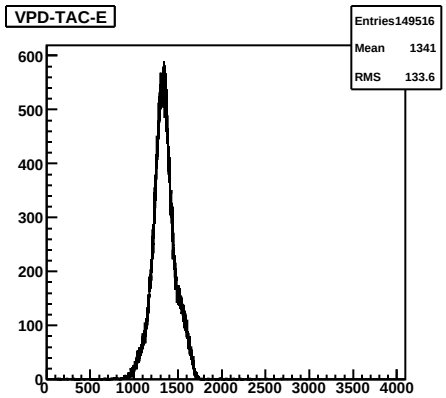

BBCsmall-TAC-W
Entries 203400
Mean 1625
RMS 398.4

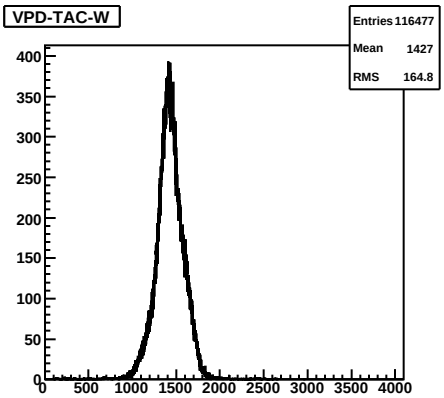

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 197590
Mean 4101
RMS 457.3

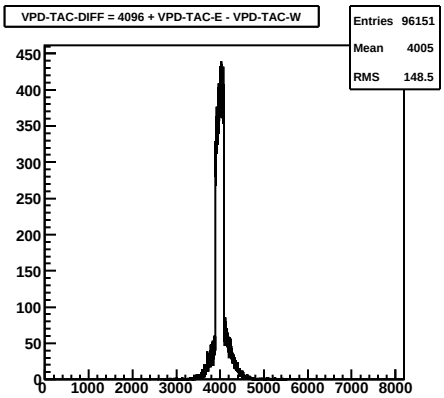

BBClarge-TAC-E
Entries 208907
Mean 1705
RMS 387.1

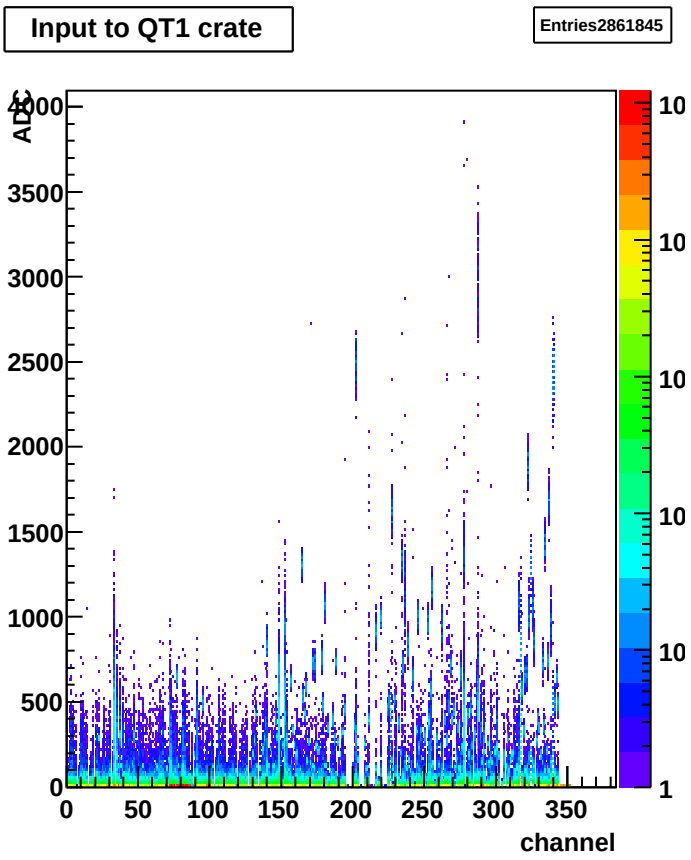

BBClarge-TAC-W
Entries 204518
Mean 1763
RMS 520.9

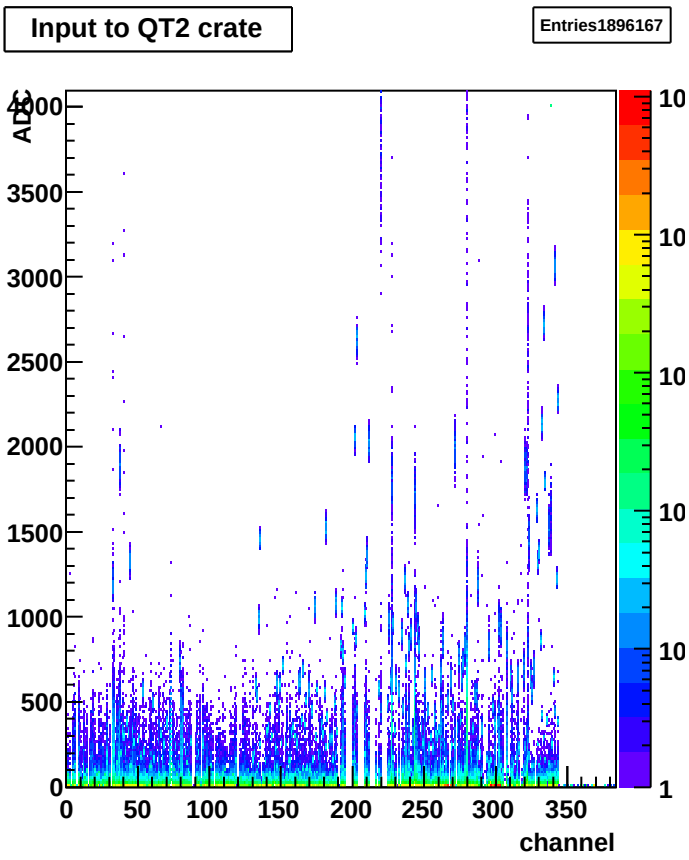

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 201010
Mean 4038
RMS 615.2

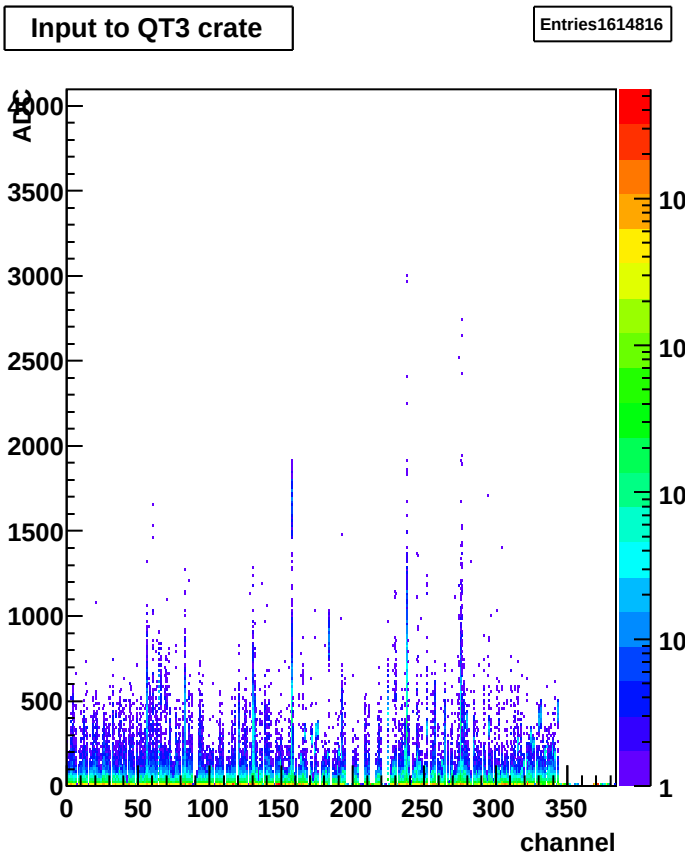

VPD-TAC-E
Entries 149516
Mean 1341
RMS 133.6

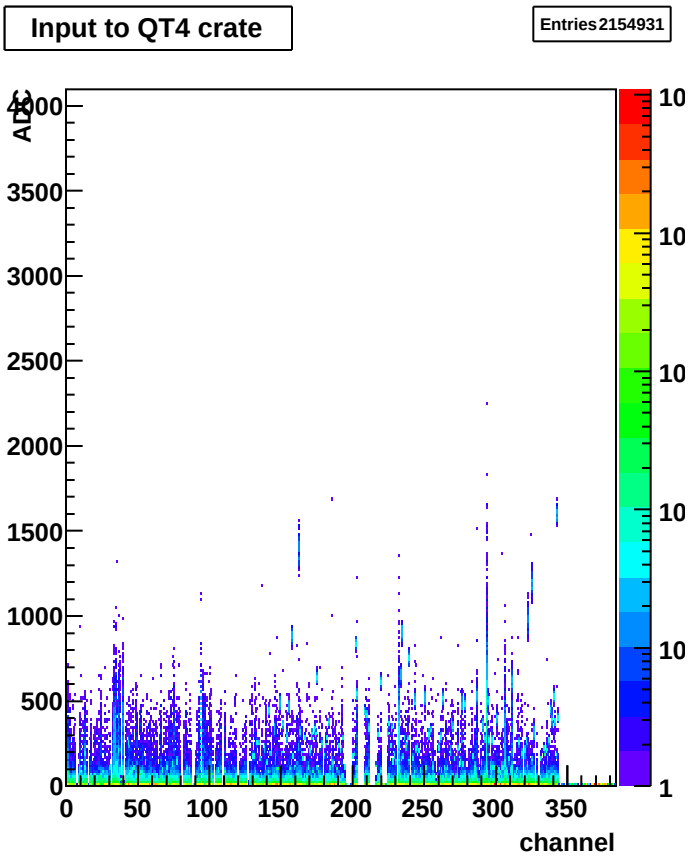

VPD-TAC-W
Entries 116477
Mean 1427
RMS 164.8

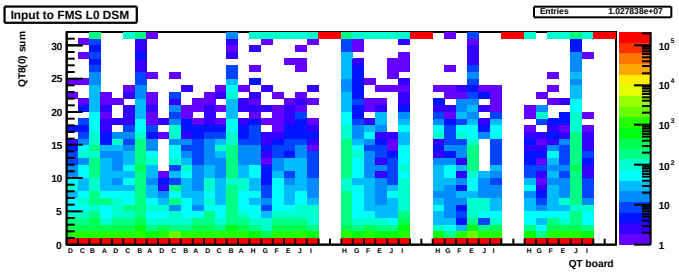

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 96151
Mean 4005
RMS 148.5

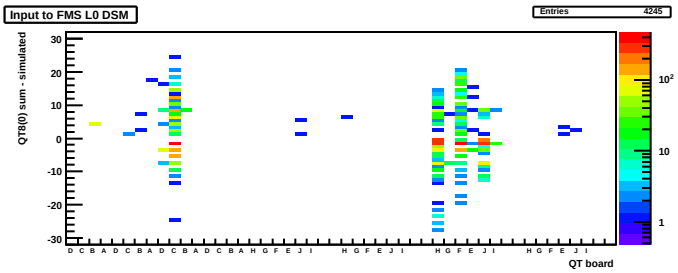

Input to QT1 crate
Entries2861845
ADC
channel

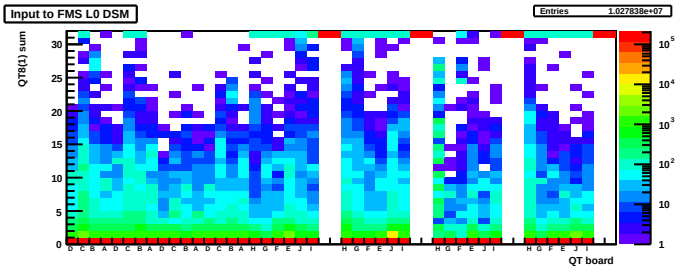

Input to QT2 crate
Entries1896167
ADC
channel

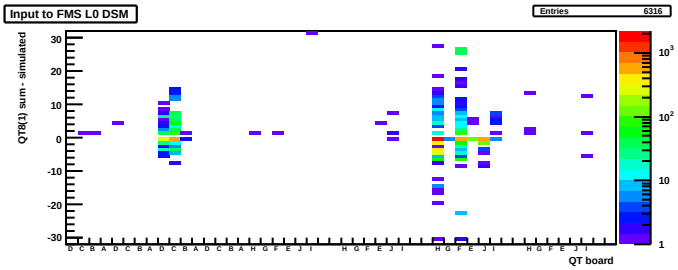

Input to QT3 crate
Entries1614816
ADC
channel

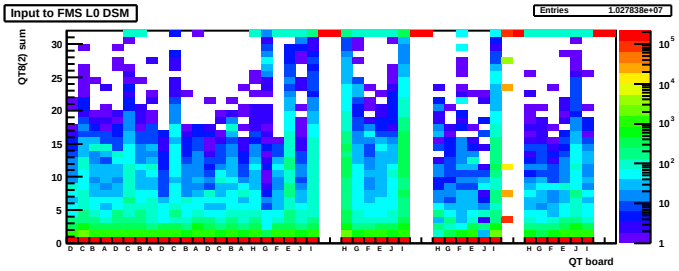

Input to QT4 crate
Entries2154931
ADC
channel

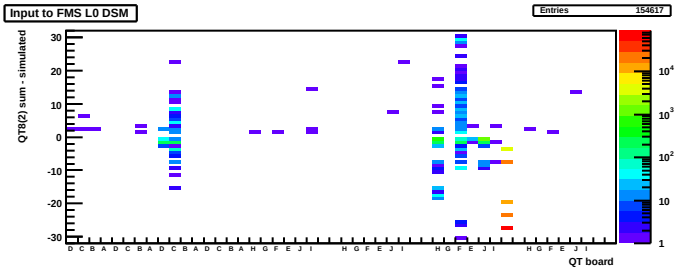

Input to FMS L0 DSM
Entries 1.027838e+07
QT8(0) sum
QT board

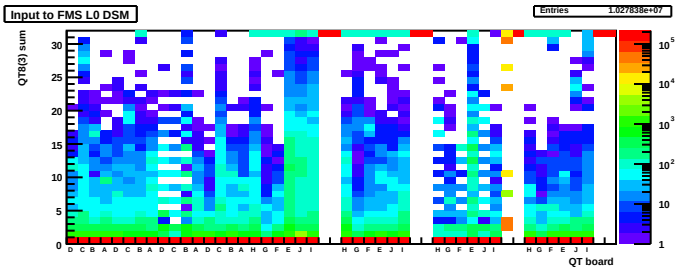

Input to FMS L0 DSM
Entries 4245
QT8(0) sum - simulated
QT board

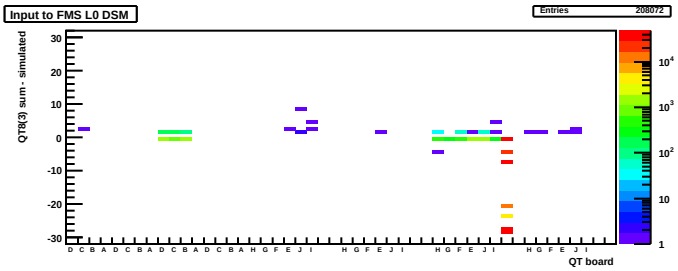

Input to FMS L0 DSM
Entries 1.027838e+07
QT8(1) sum
QT board

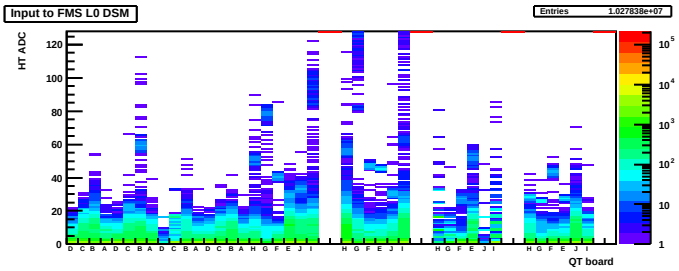

Input to FMS L0 DSM
Entries 6316
QT8(1) sum - simulated
QT board

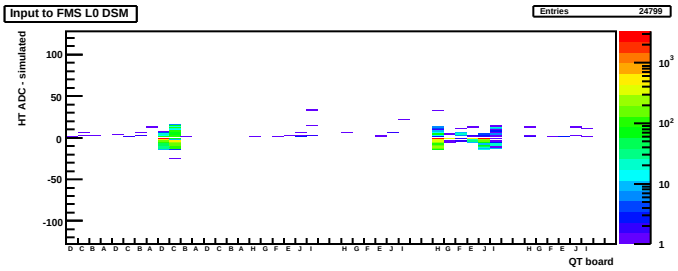

Input to FMS L0 DSM
Entries 1.027838e+07
QT8(2) sum
QT board

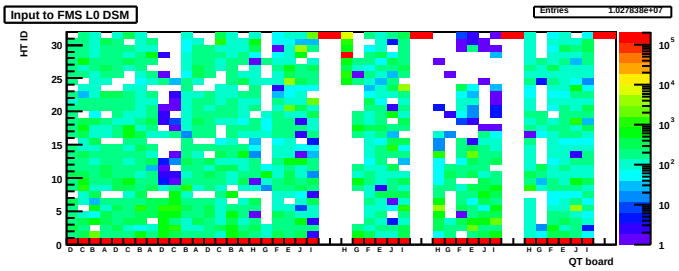

Input to FMS L0 DSM
Entries 154617
QT8(2) sum - simulated
QT board

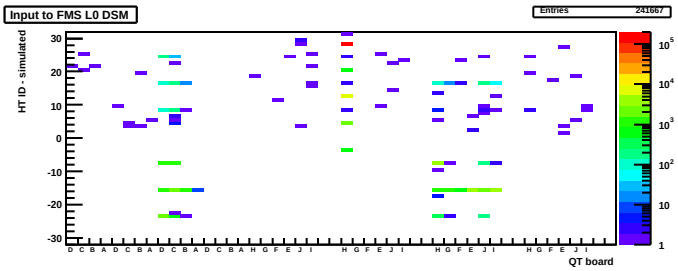

Input to FMS L0 DSM
Entries 1.027838e+07
QT8(3) sum
QT board

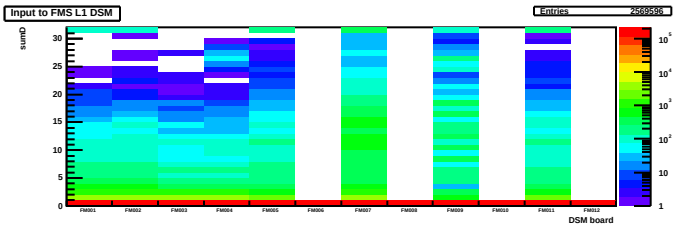

Input to FMS L0 DSM
Entries 208072
QT8(3) sum - simulated
QT board

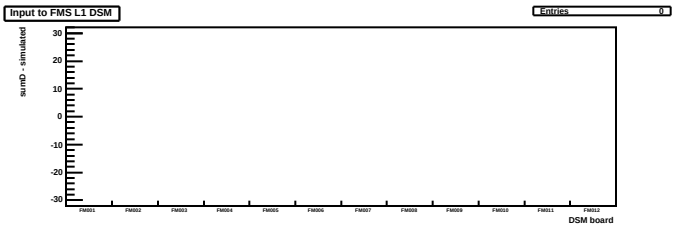

Input to FMS L0 DSM
Entries 1.027838e+07
HT ADC
QT board

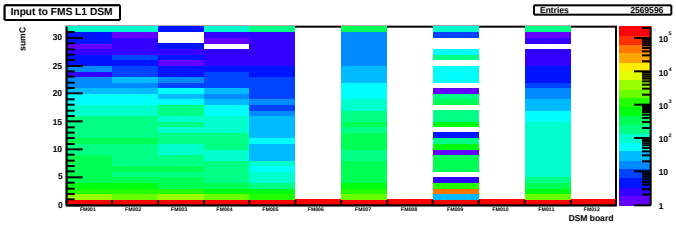

Input to FMS L0 DSM
Entries 24799
HT ADC - simulated
QT board

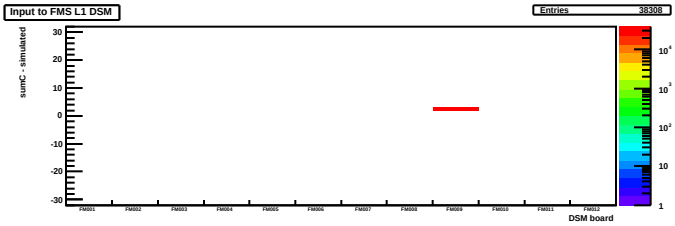

Input to FMS L0 DSM
Entries 1.027838e+07
HT ID
QT board

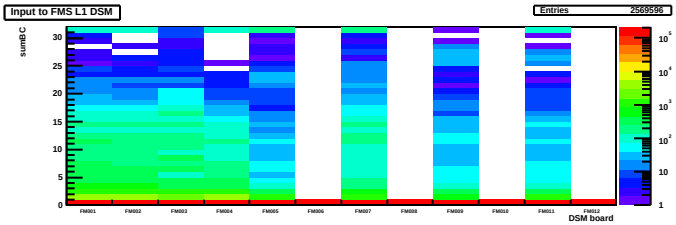

Input to FMS L0 DSM
Entries 241667
HT ID - simulated
QT board

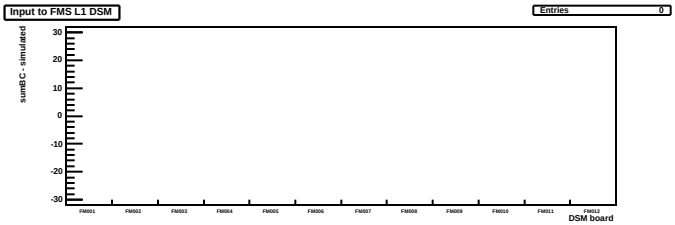

Input to FMS L1 DSM
Entries 2569596
sumD
DSM board

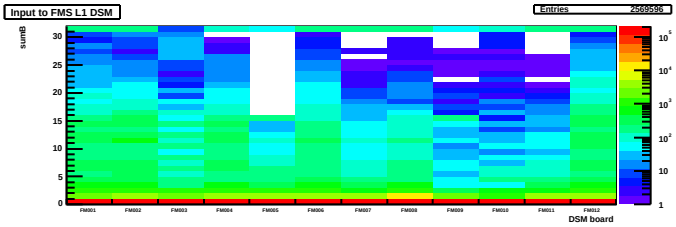

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

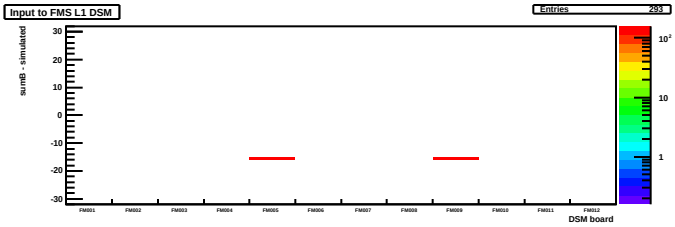

Input to FMS L1 DSM
Entries 2569596
sumC
DSM board

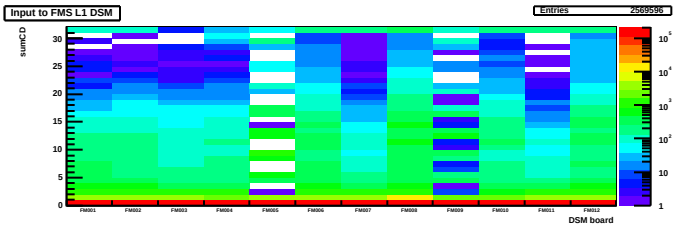

Input to FMS L1 DSM
Entries 38308
sumC - simulated
DSM board

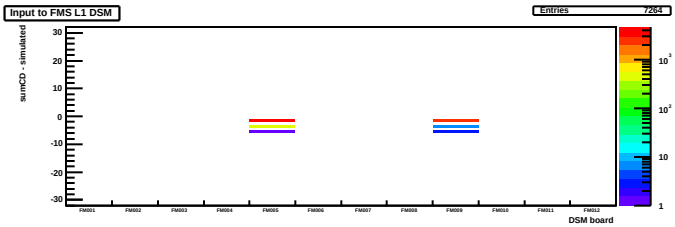

Input to FMS L1 DSM
Entries 2569596
sumBC
DSM board

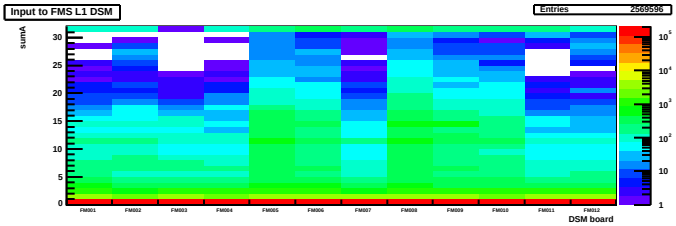

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

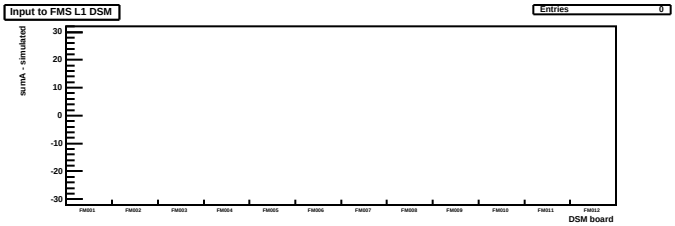

Input to FMS L1 DSM
Entries 2569596
sumB
DSM board

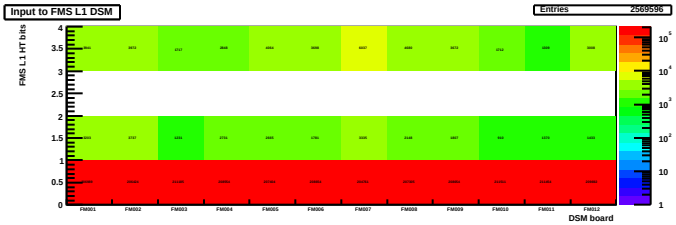

Input to FMS L1 DSM
Entries 293
sumB - simulated
DSM board

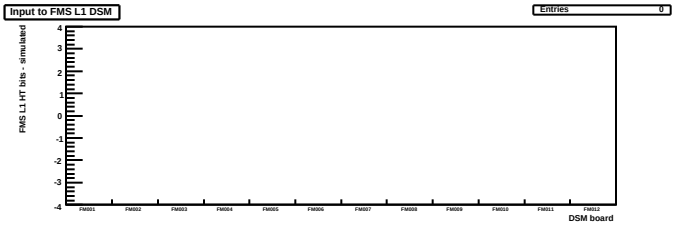

Input to FMS L1 DSM
Entries 2569596
sumCD
DSM board

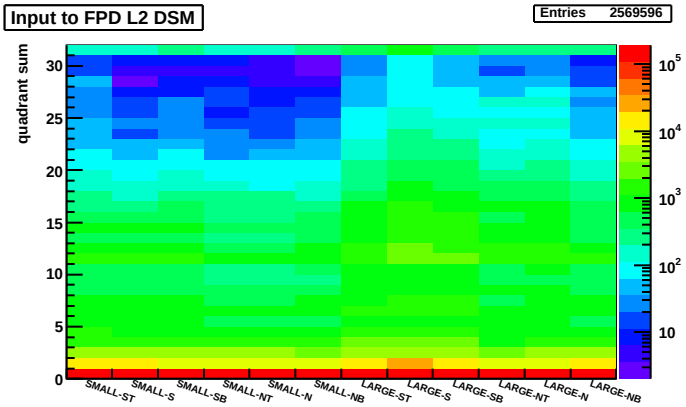

Input to FMS L1 DSM
Entries 7264
sumCD - simulated
DSM board

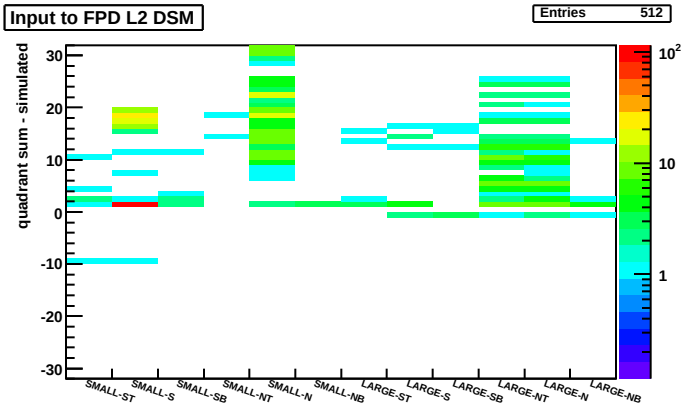

Input to FMS L1 DSM
Entries 2569596
sumA
DSM board

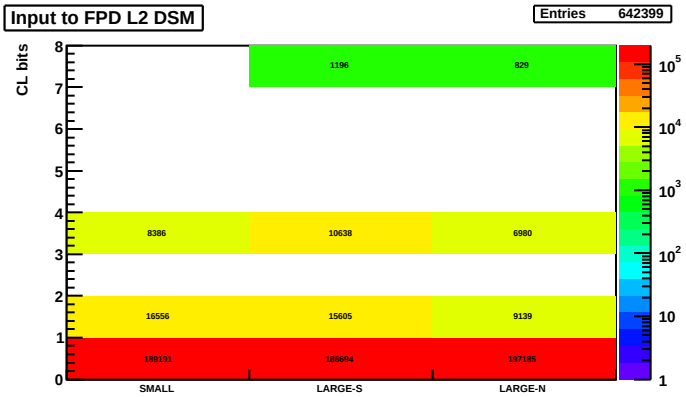

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

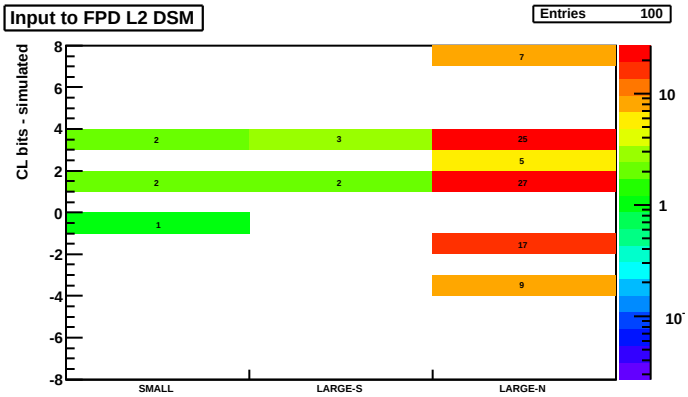

Input to FMS L1 DSM
Entries 2569596
FMS L1 HT bits
DSM board

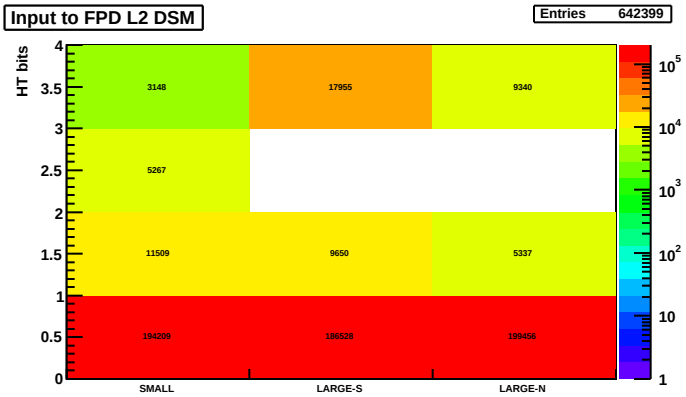

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

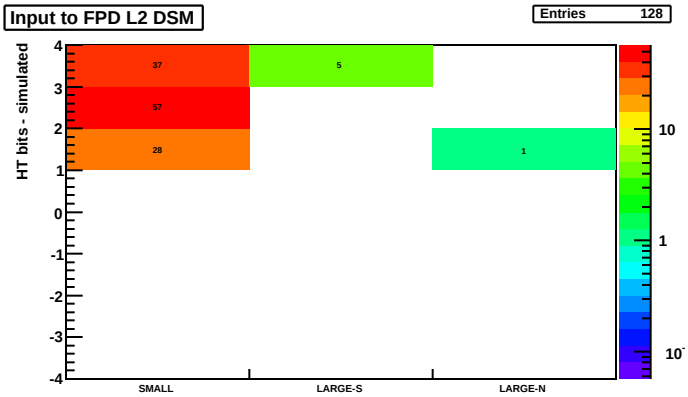

Input to FPD L2 DSM
Entries 2569596
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

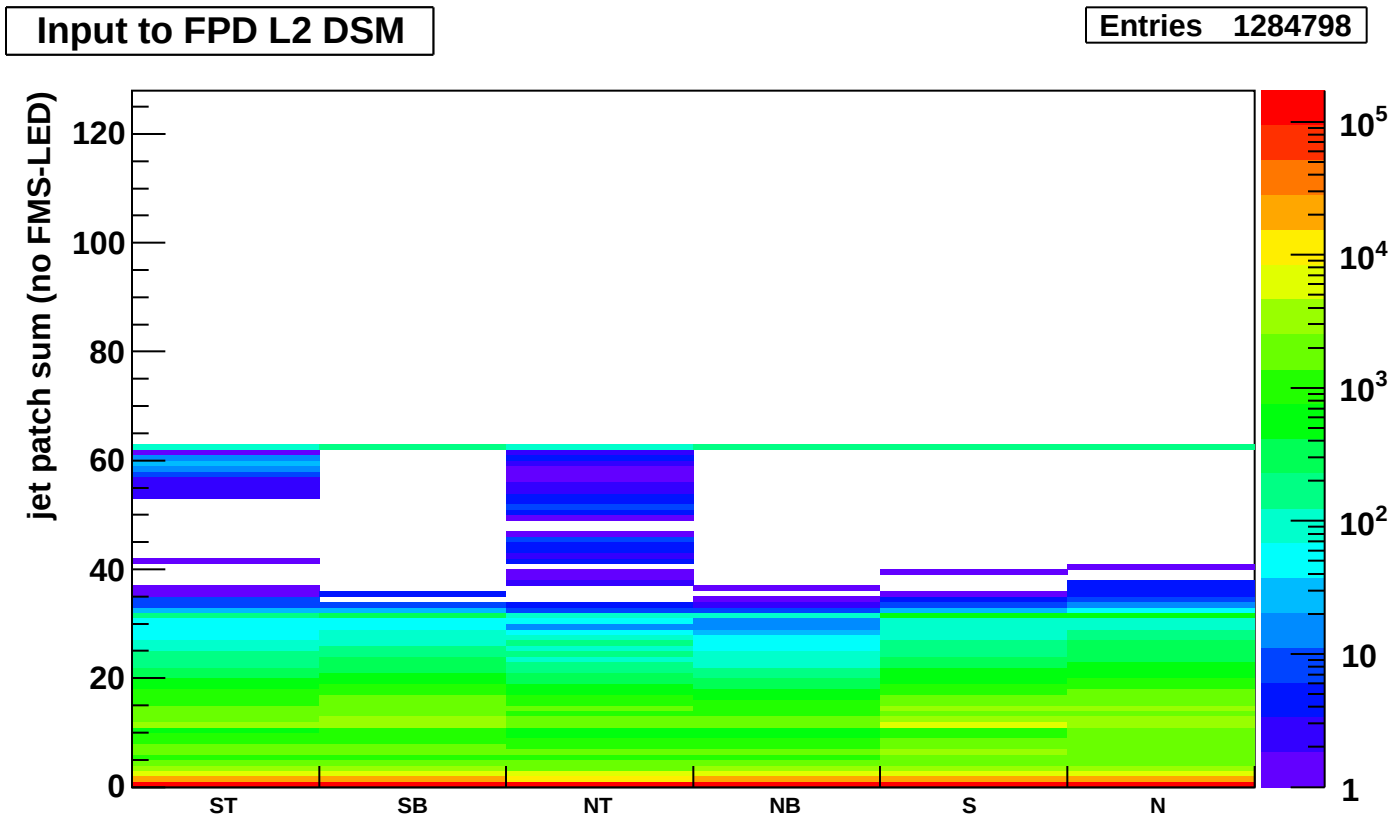

Input to FPD L2 DSM
Entries 512
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

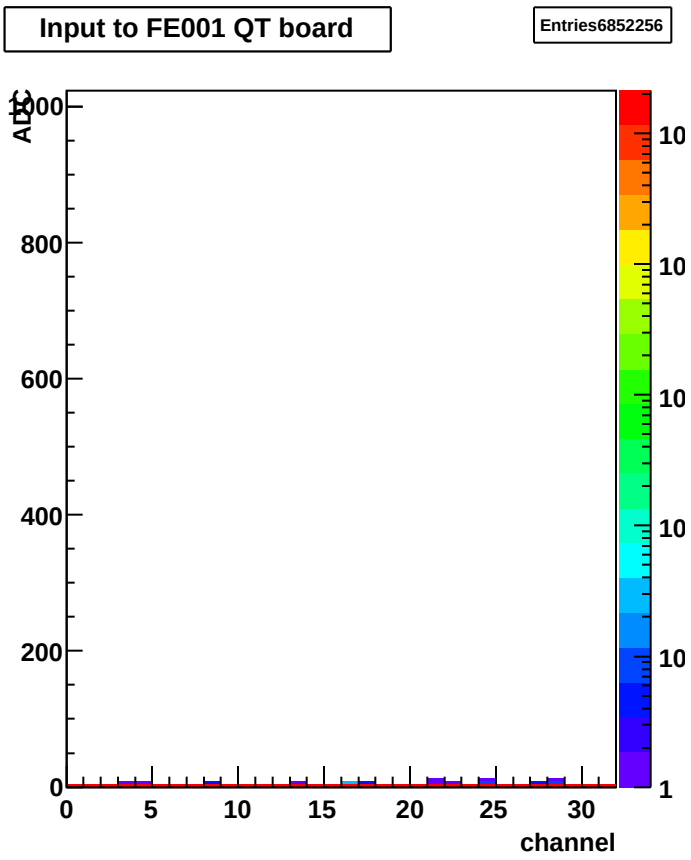

Input to FPD L2 DSM
Entries 642399
CL bits
1196
829
8386
10638
6980
16556
15605
9139
189191
186694
197185
SMALL
LARGE-S
LARGE-N

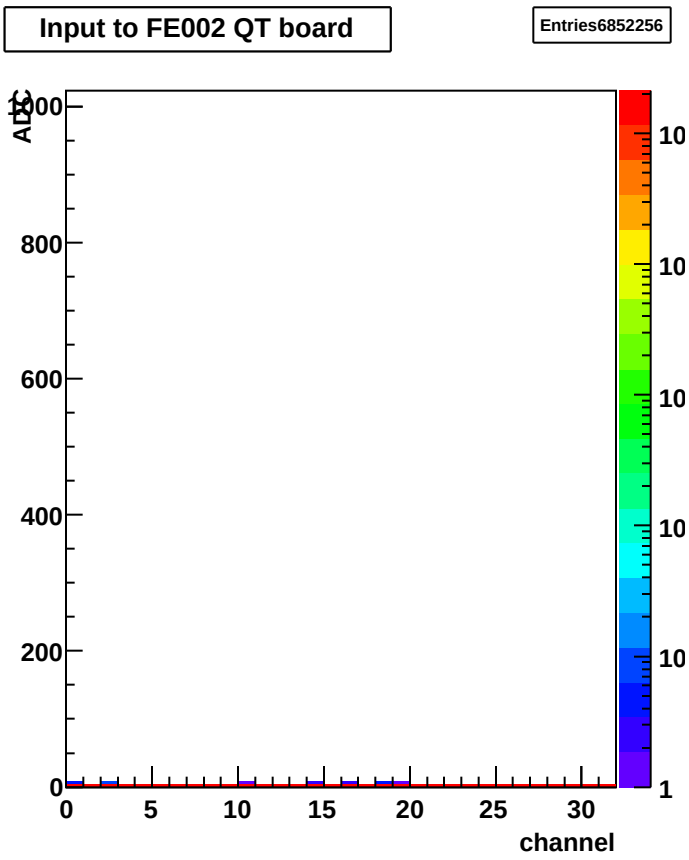

Input to FPD L2 DSM
Entries 100
CL bits - simulated
7
2
3
25
5
2
2
27
1
17
9
SMALL
LARGE-S
LARGE-N

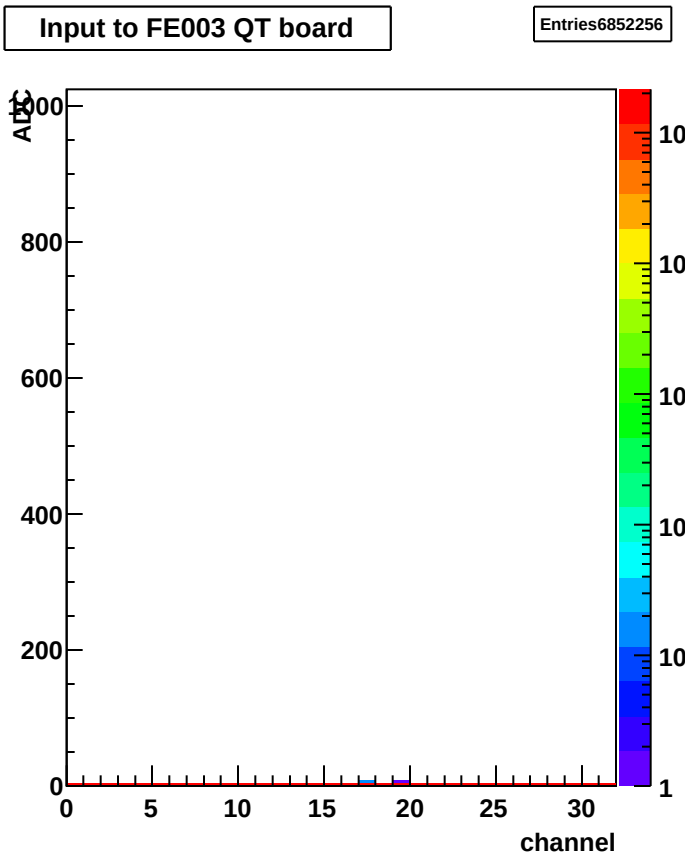

Input to FPD L2 DSM
Entries 642399
HT bits
3148
17955
9340
5267
11509
9650
5337
194209
186528
199456
SMALL
LARGE-S
LARGE-N

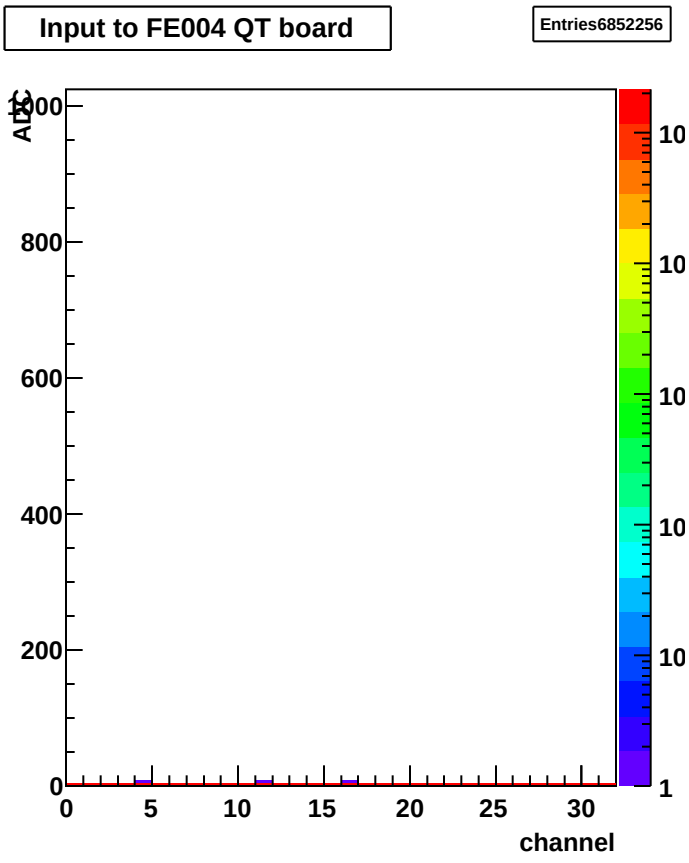

Input to FPD L2 DSM
Entries 128
HT bits - simulated
37
5
57
28
1
SMALL
LARGE-S
LARGE-N

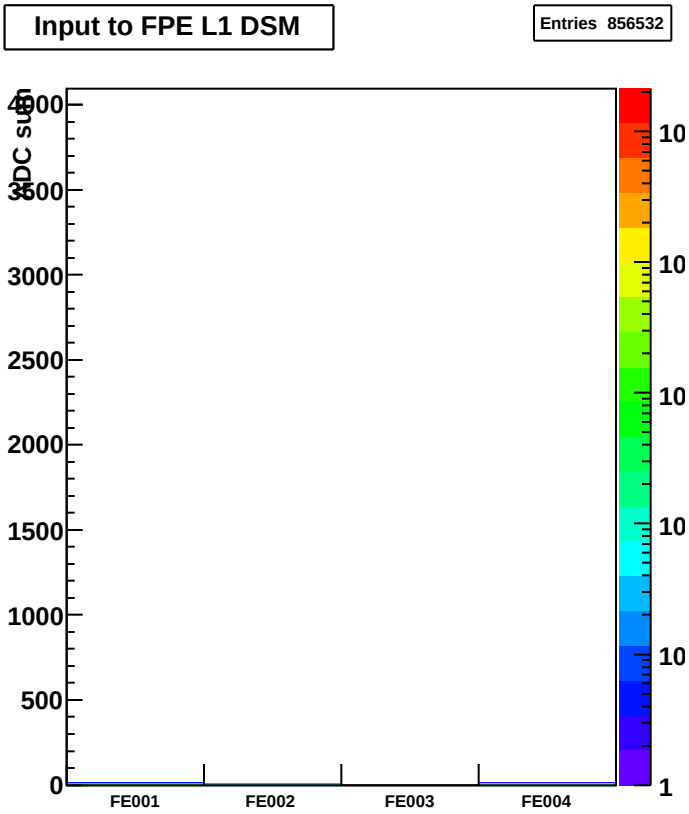

Input to FPD L2 DSM
Entries 1284798
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

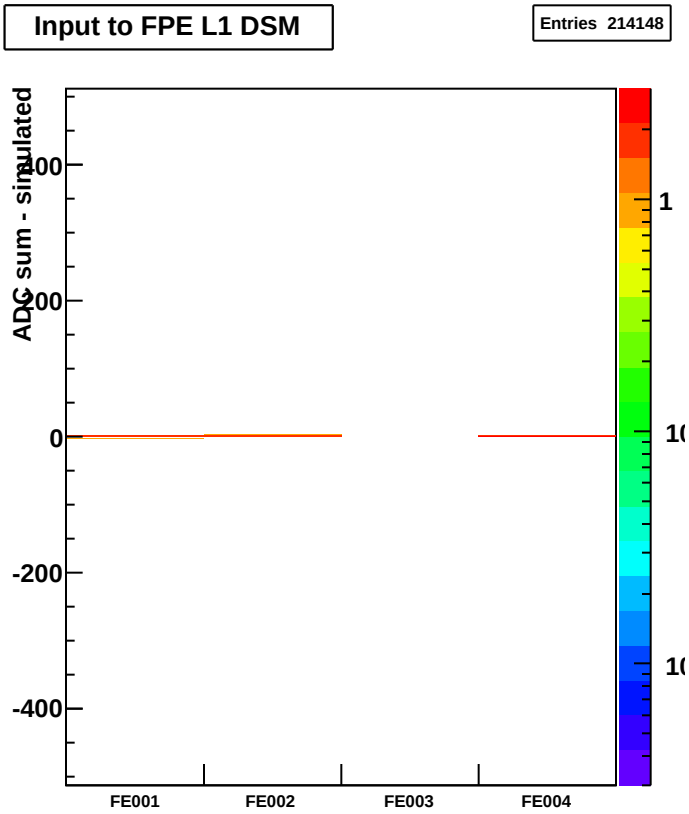

Input to FE001 QT board
Entries6852256
ADC
channel

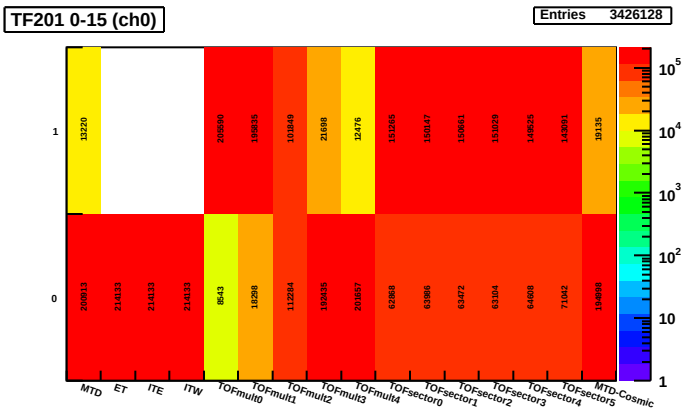

Input to FE002 QT board
Entries6852256
ADC
channel

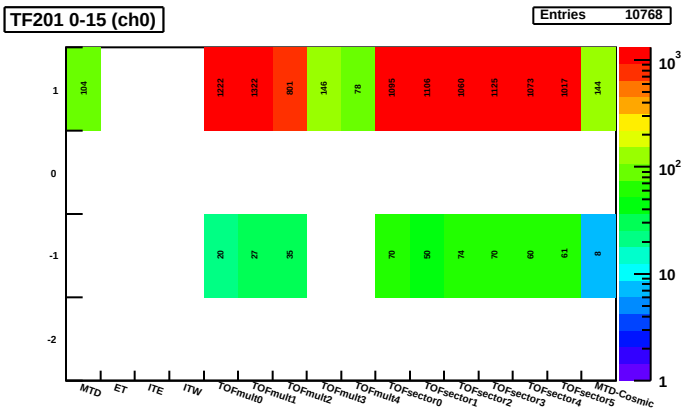

Input to FE003 QT board
Entries6852256
ADC
channel

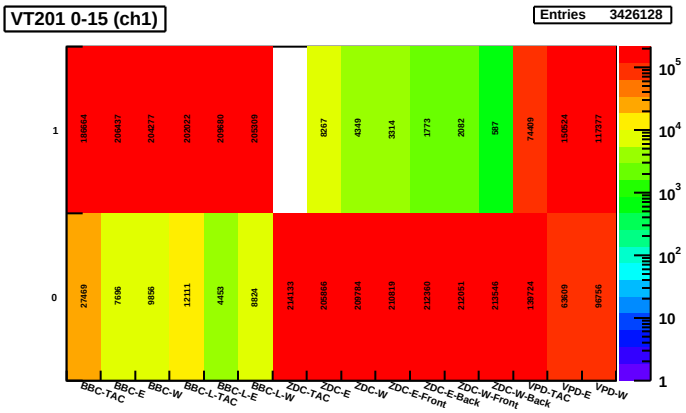

Input to FE004 QT board
Entries6852256
ADC
channel

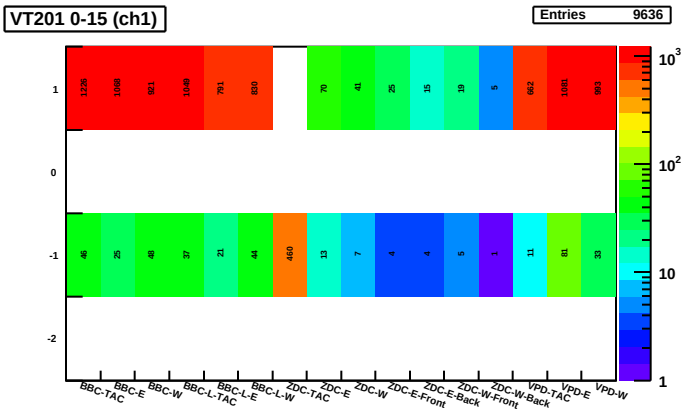

Input to FPE L1 DSM
Entries 856532
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries 214148
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004


TF201 0-15 (ch0)
Entries 3426128
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 10768
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 3426128
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 9636
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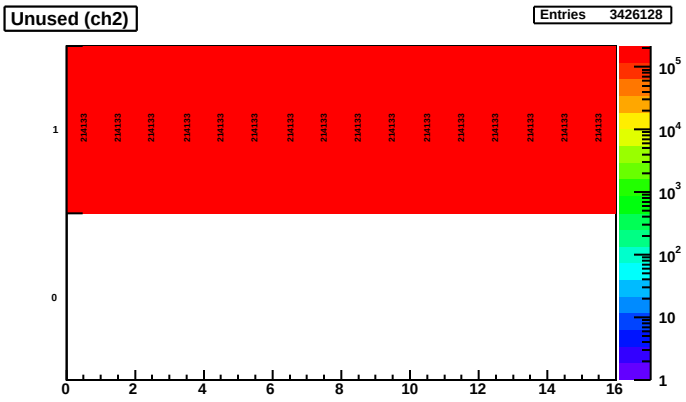
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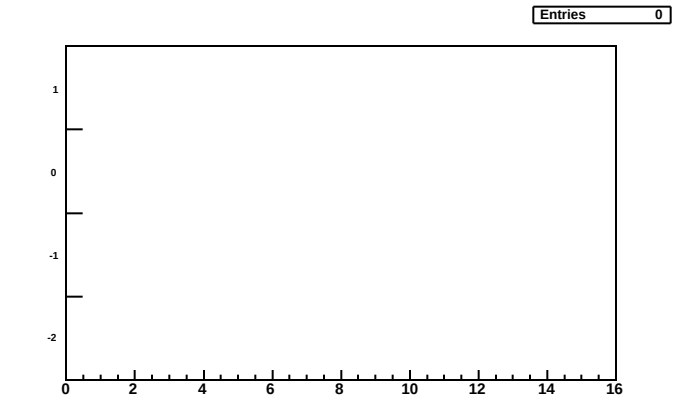
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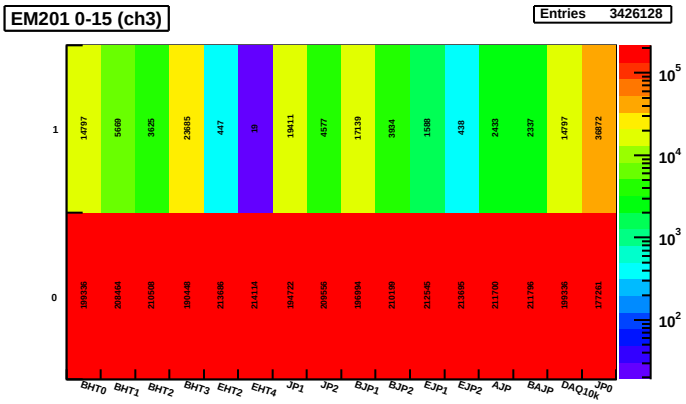
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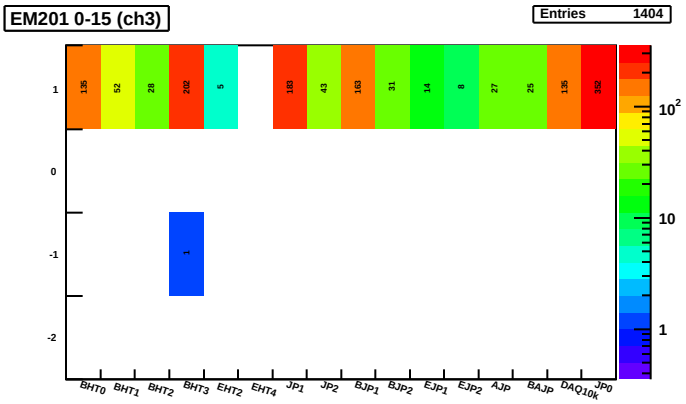
EM201 0-15 (ch3)
Entries 1404
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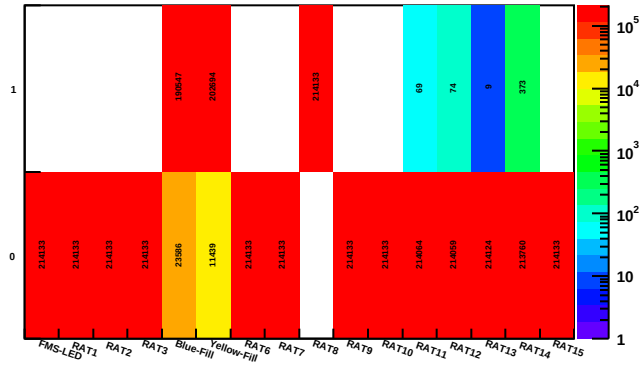
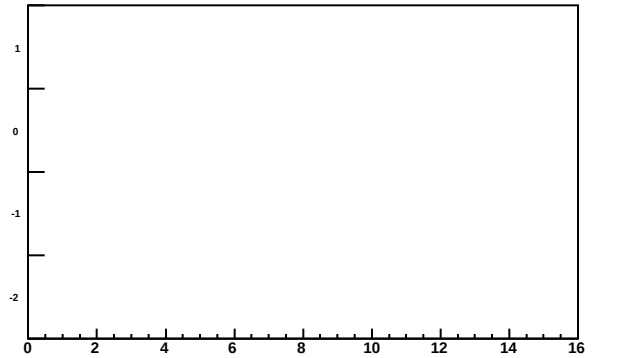
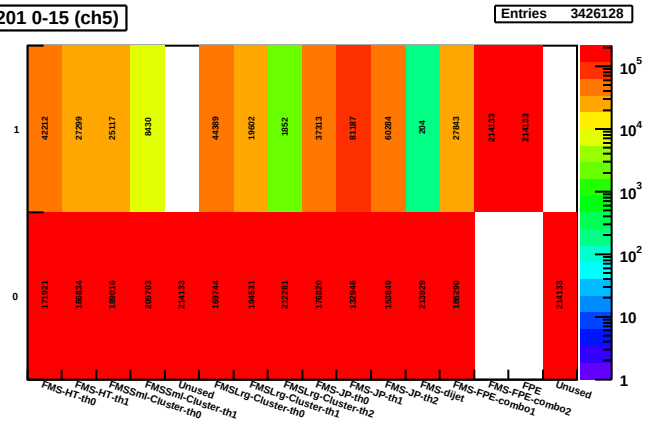
RAT board (ch4)

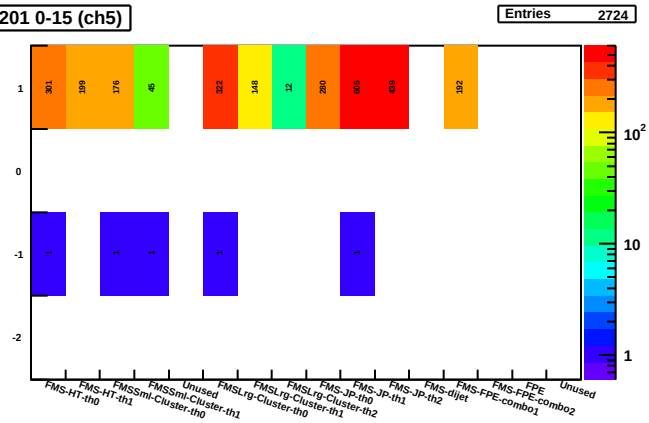




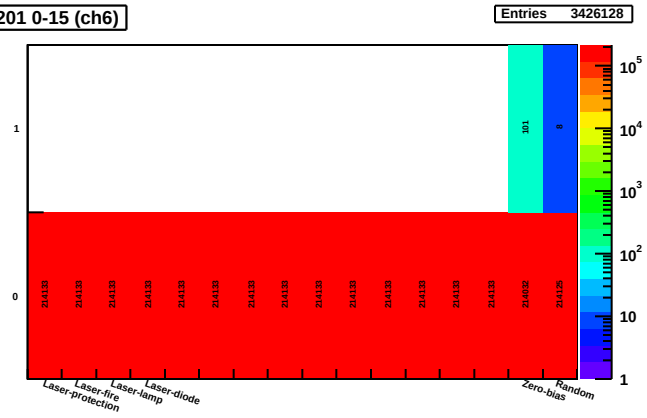
FP201 0-15 (ch5)

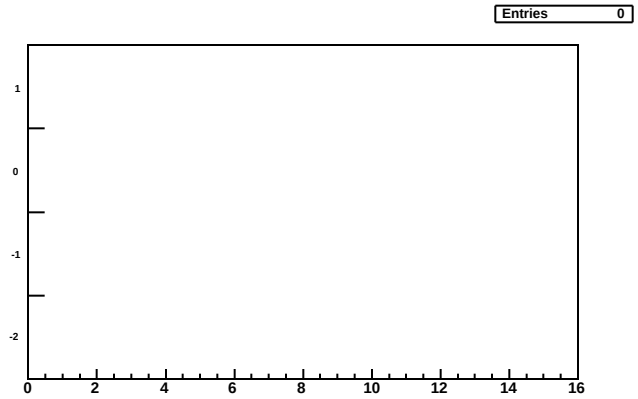
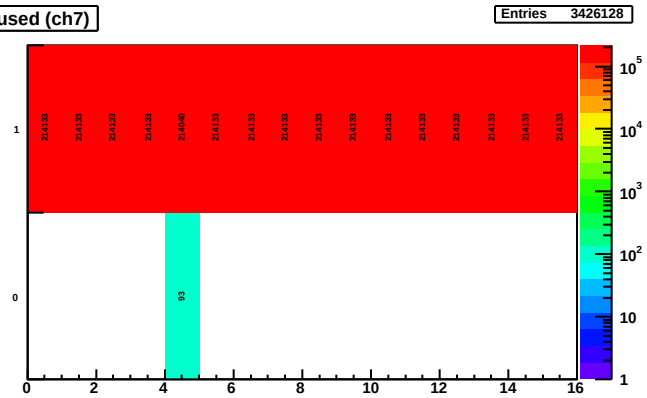
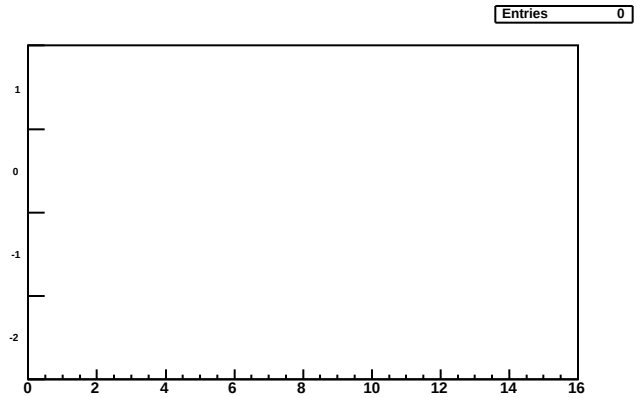


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)