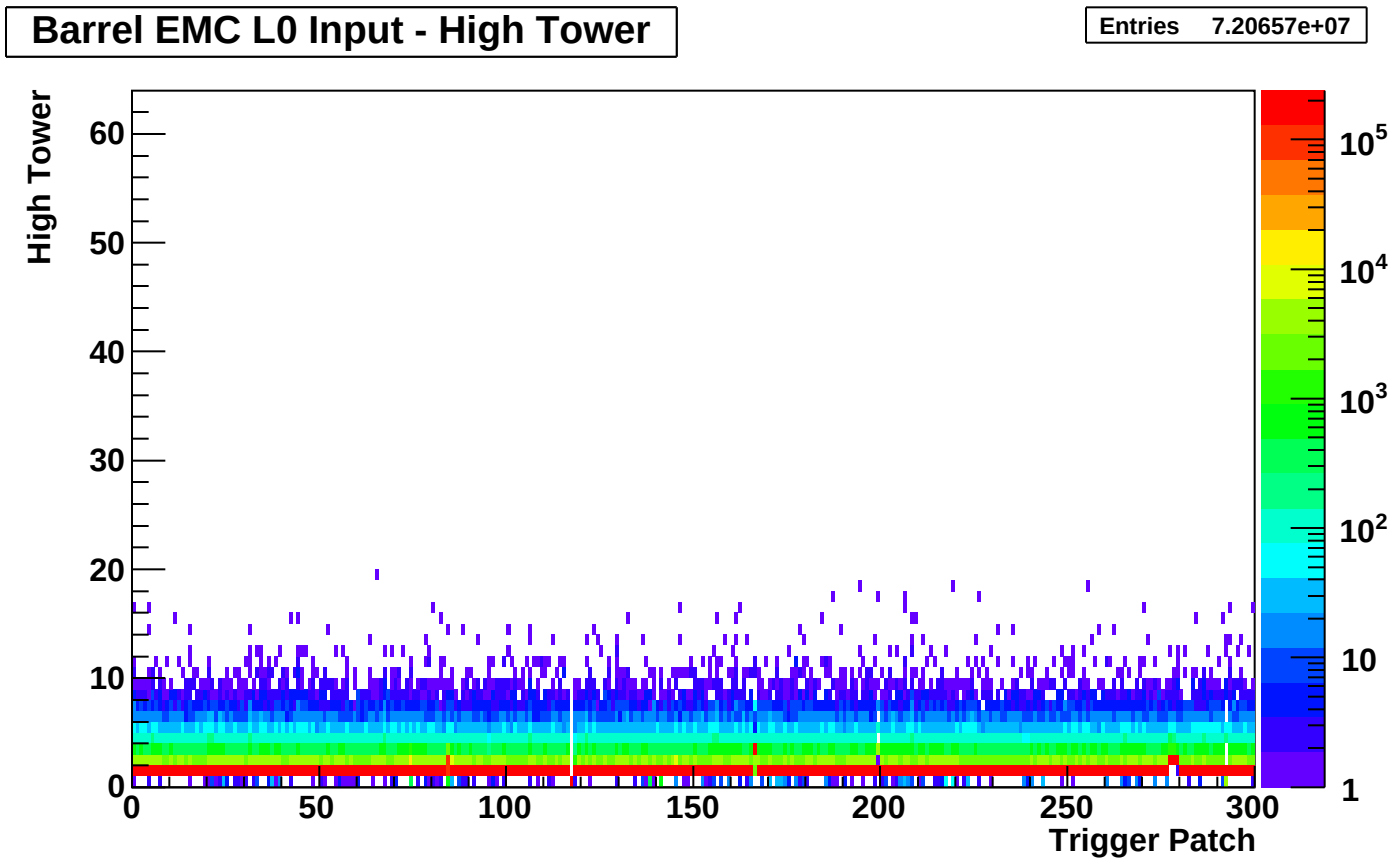
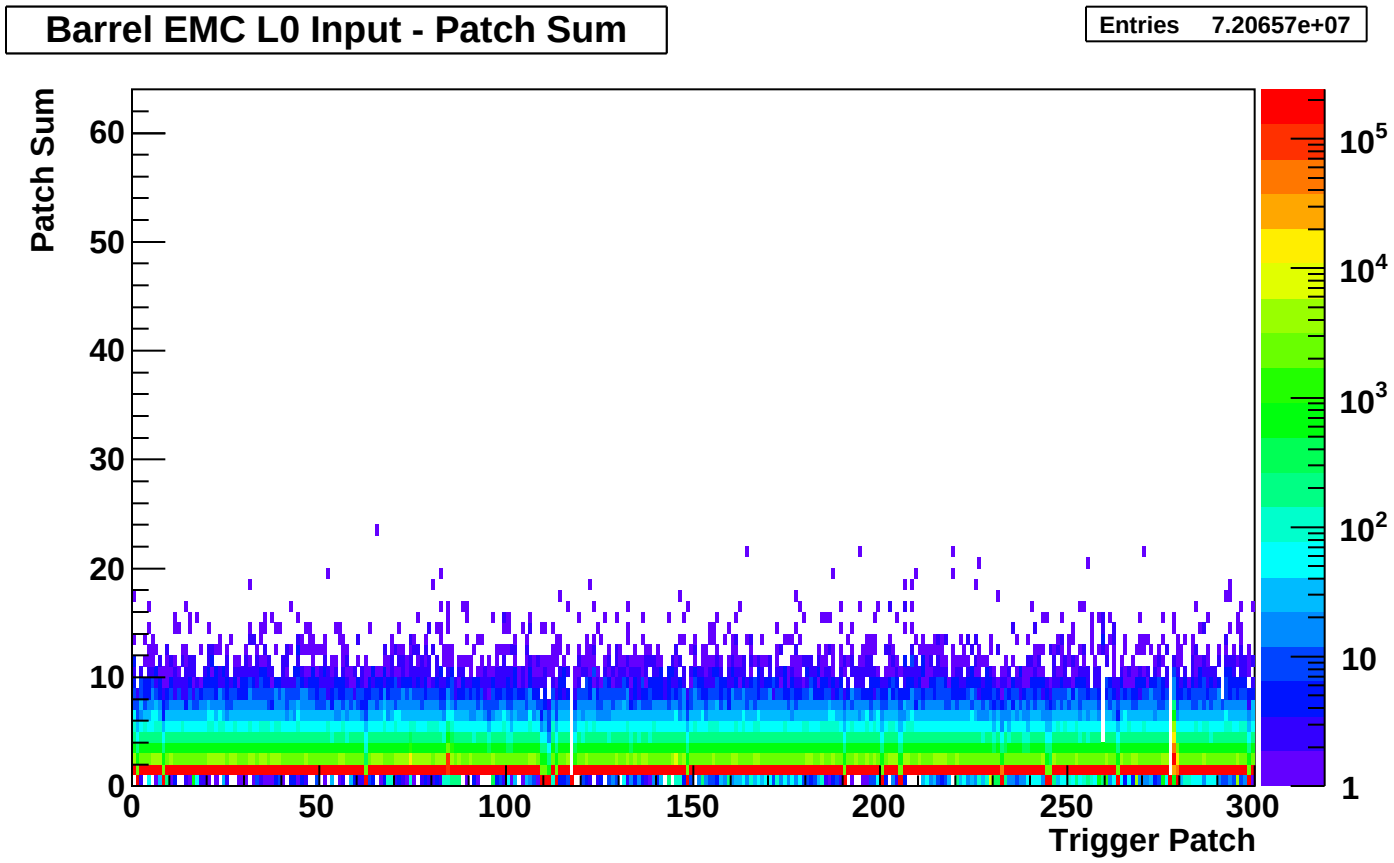
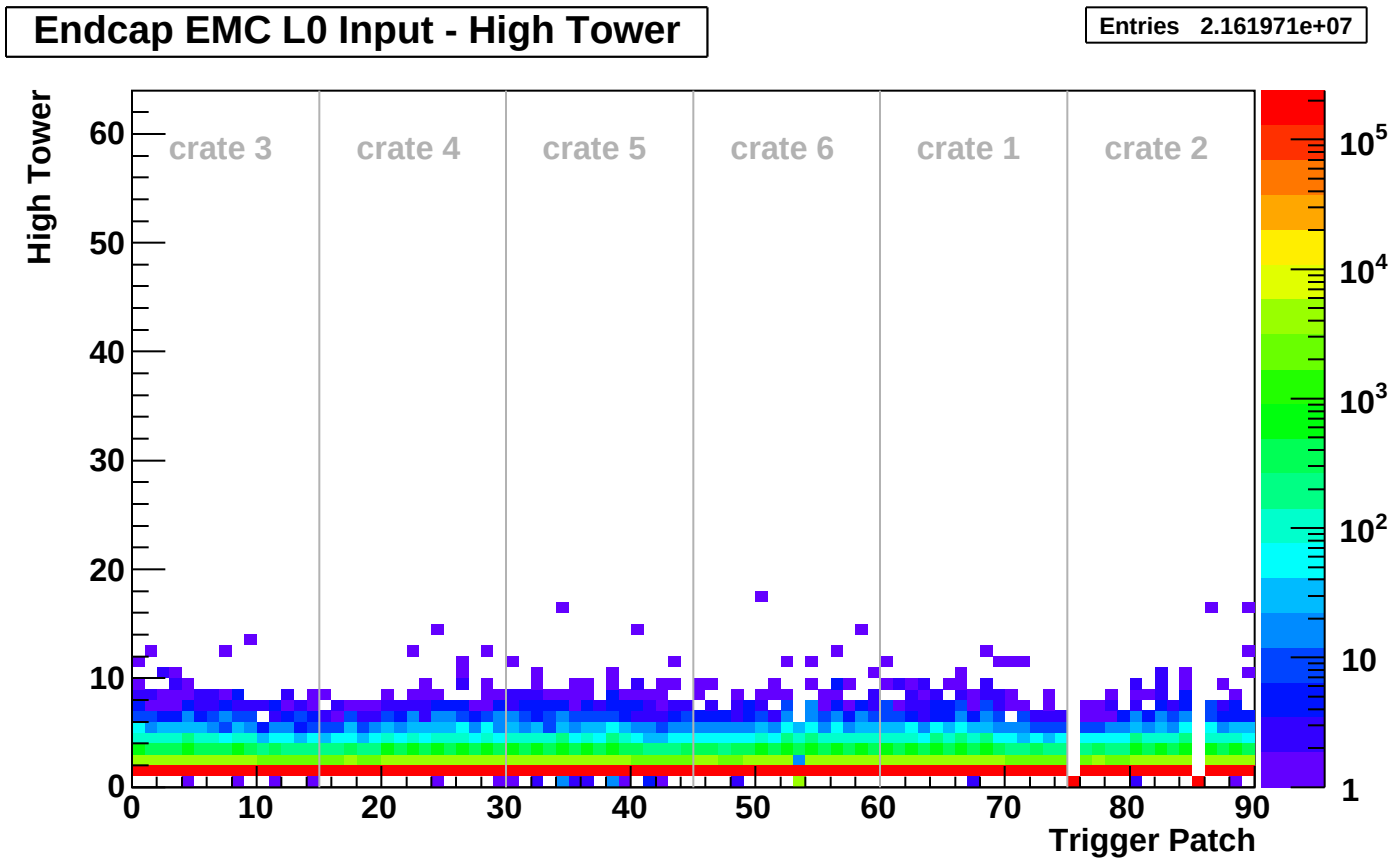
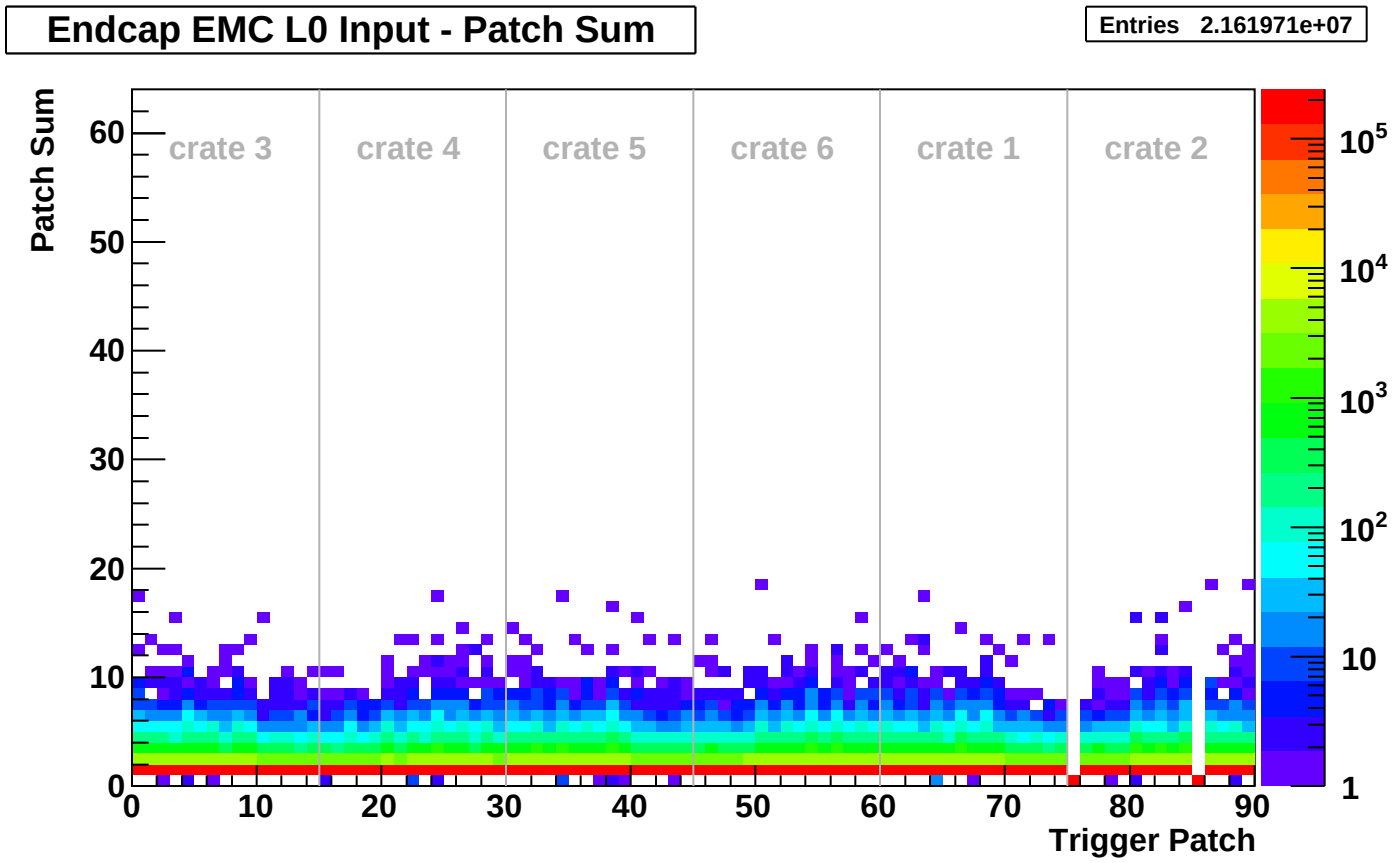
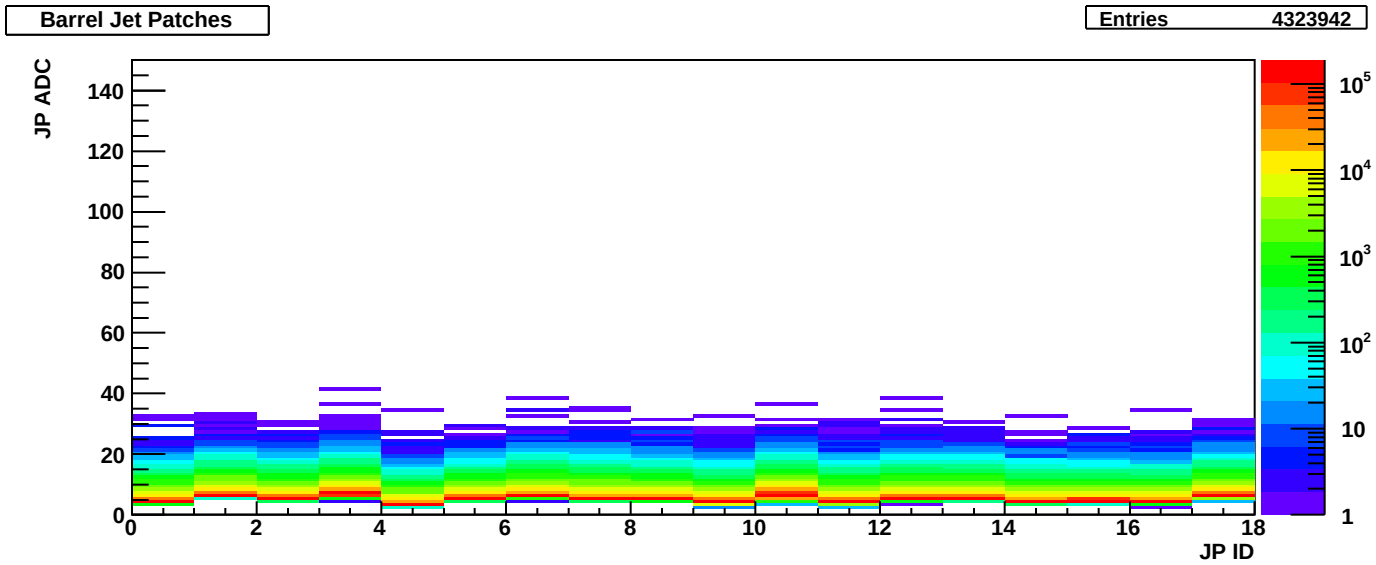
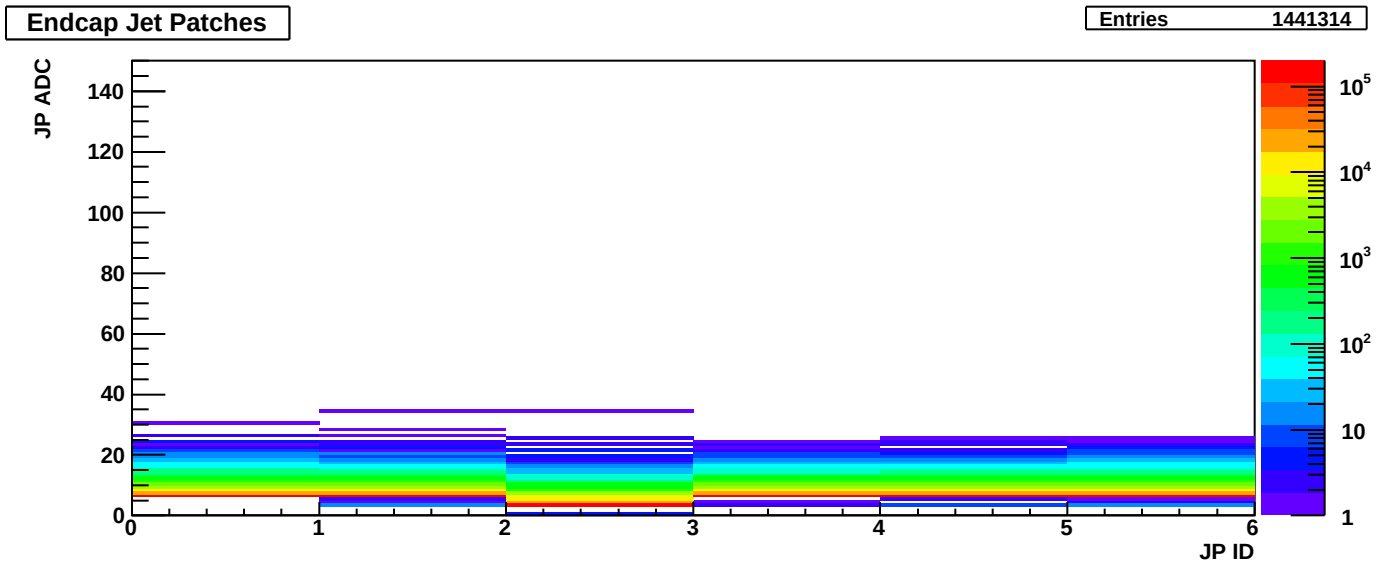

Barrel EMC L0 Input - High Tower
Entries 7.20657e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

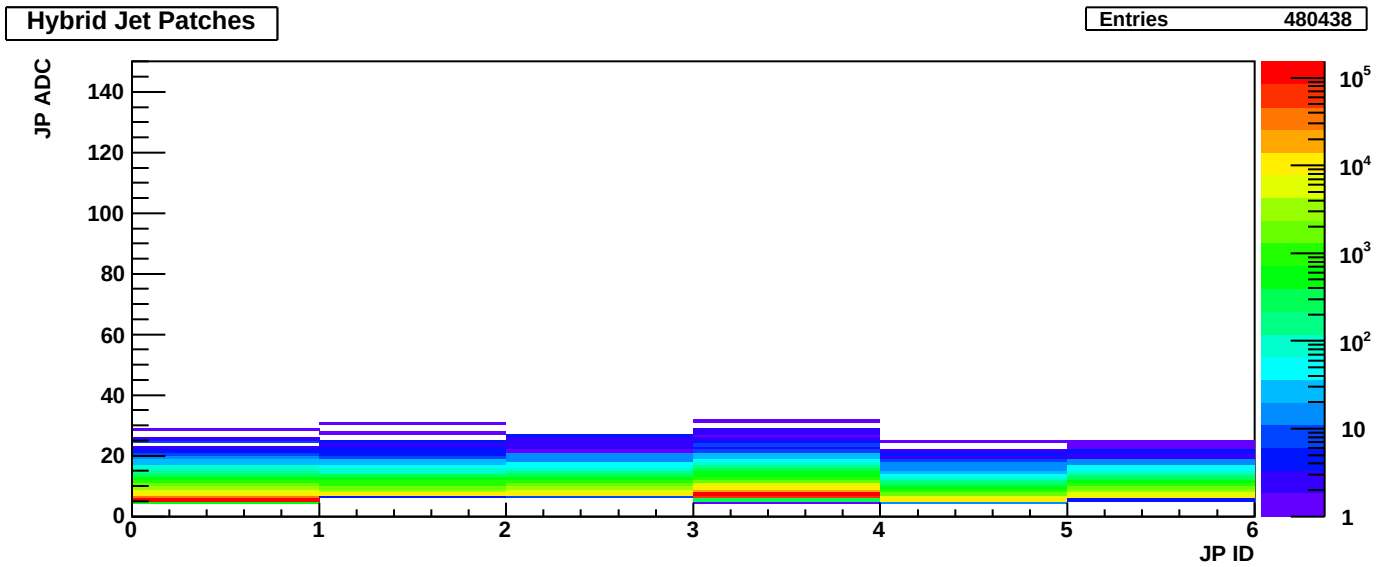

Barrel EMC L0 Input - Patch Sum
Entries 7.20657e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

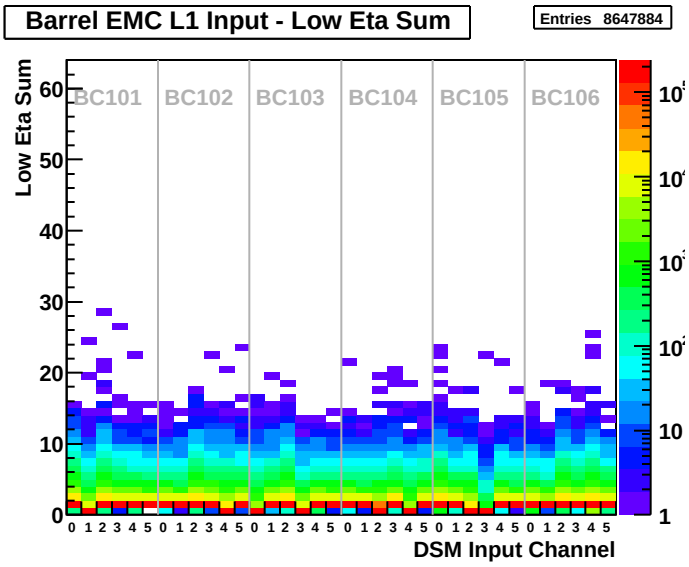

Endcap EMC L0 Input - High Tower
Entries 2.161971e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

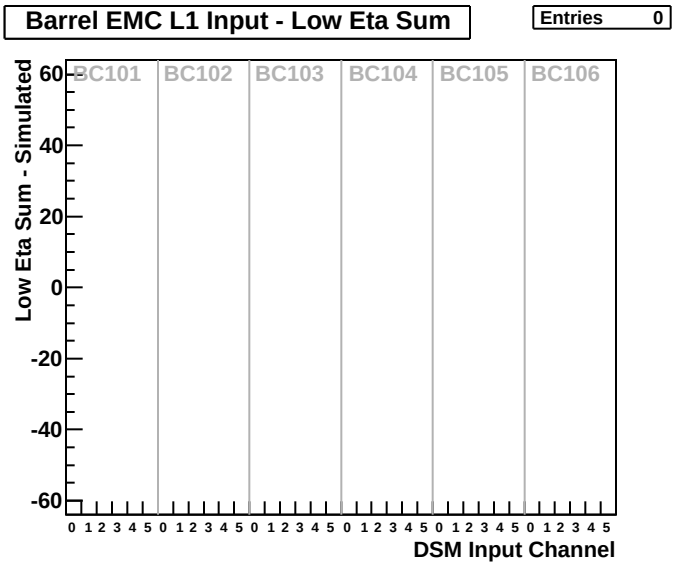

Endcap EMC L0 Input - Patch Sum
Entries 2.161971e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

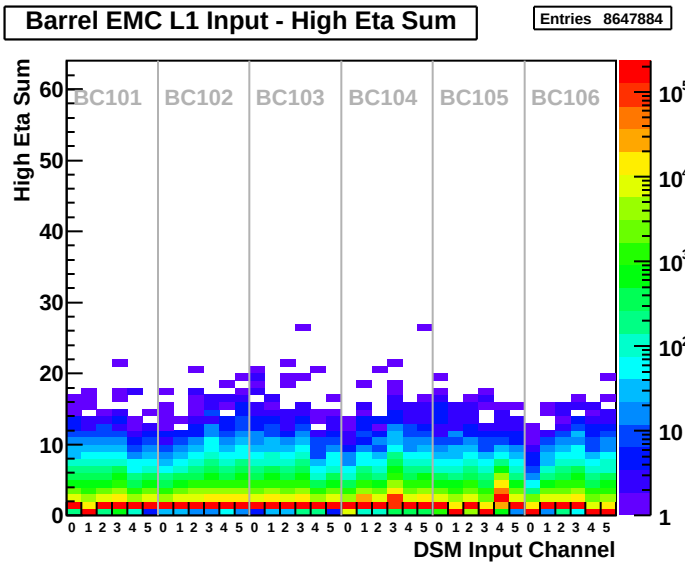

Barrel Jet Patches
Entries 4323942
JP ADC
JP ID

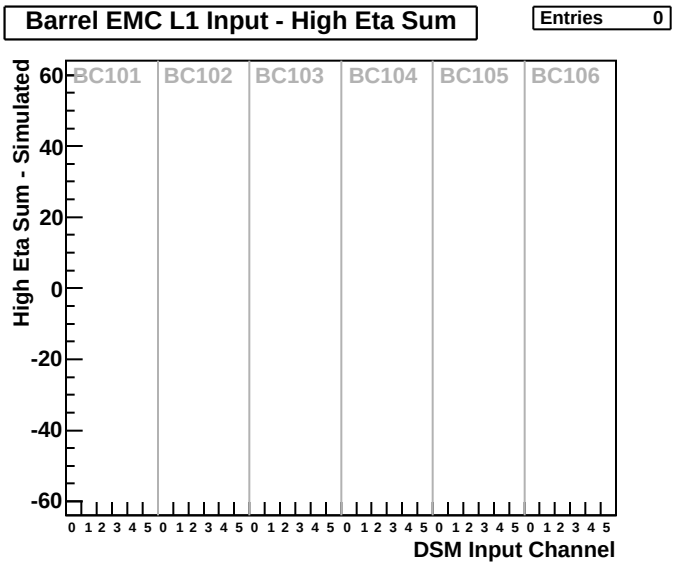

Endcap Jet Patches
Entries 1441314
JP ADC
JP ID

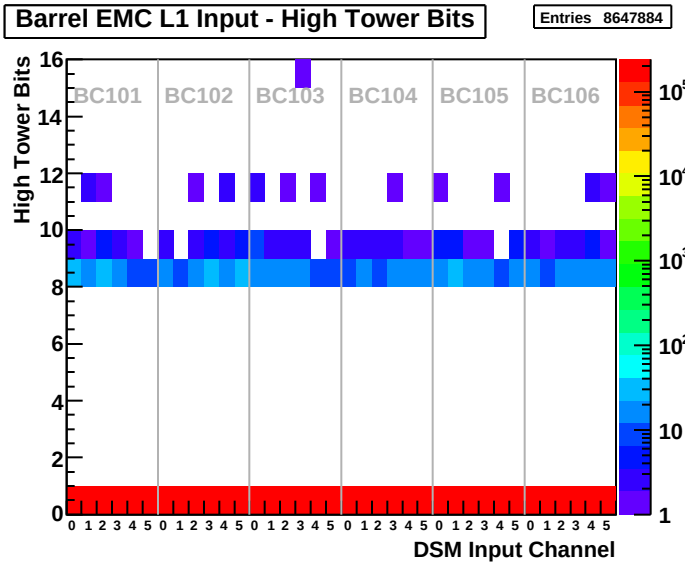

Hybrid Jet Patches
Entries 480438
JP ADC
JP ID

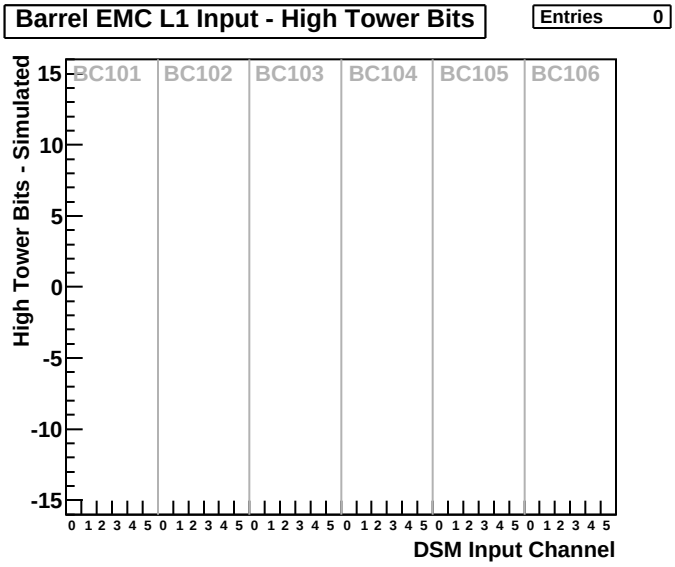

Barrel EMC L1 Input - Low Eta Sum
Entries 8647884
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

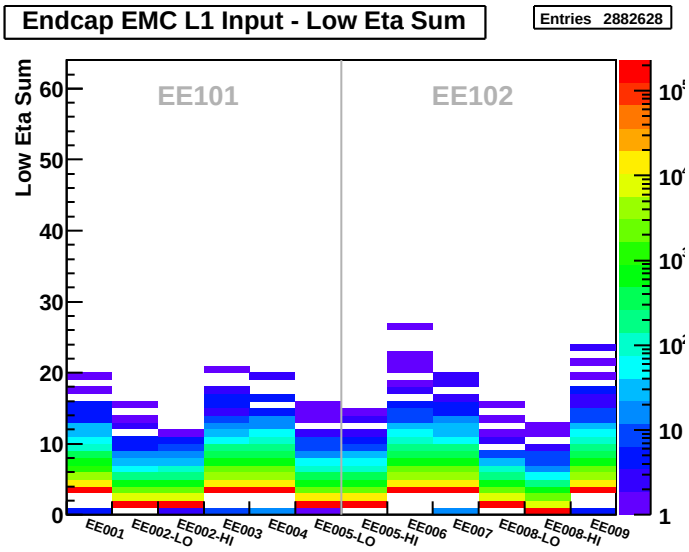

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

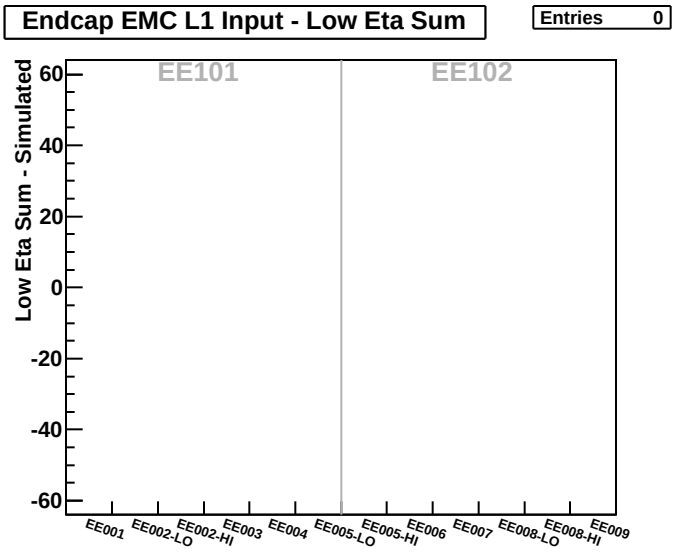

Barrel EMC L1 Input - High Eta Sum
Entries 8647884
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

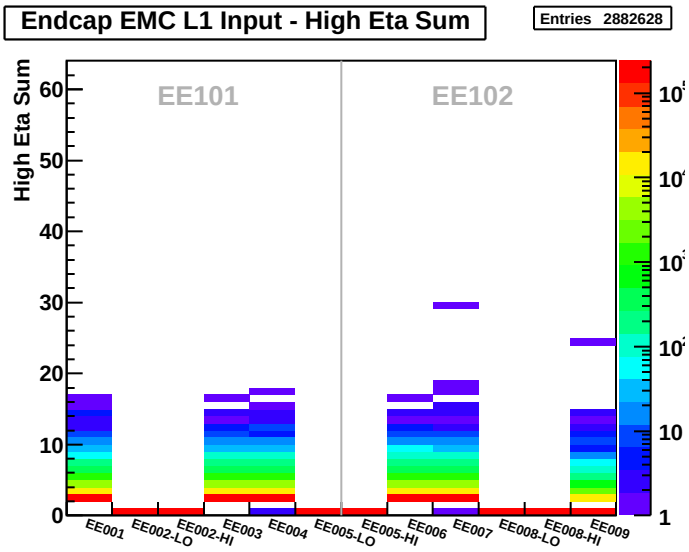

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

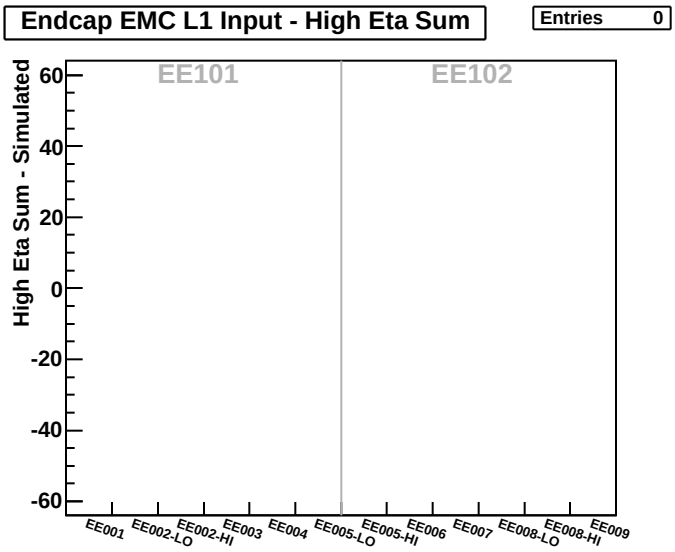

Barrel EMC L1 Input - High Tower Bits
Entries 8647884
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

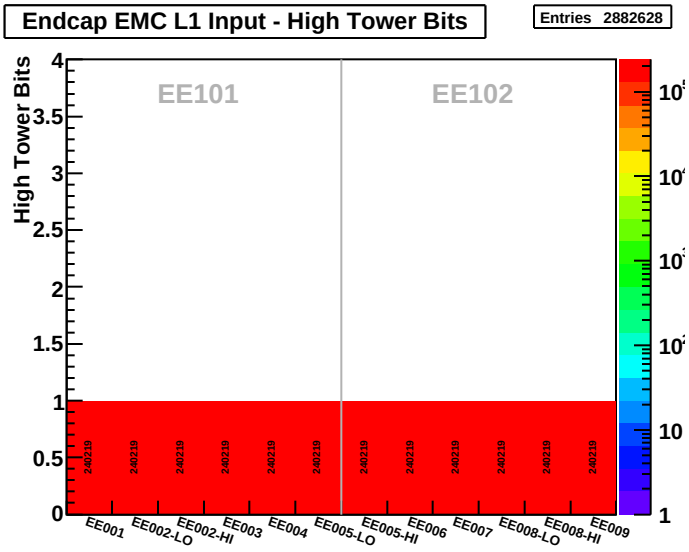

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

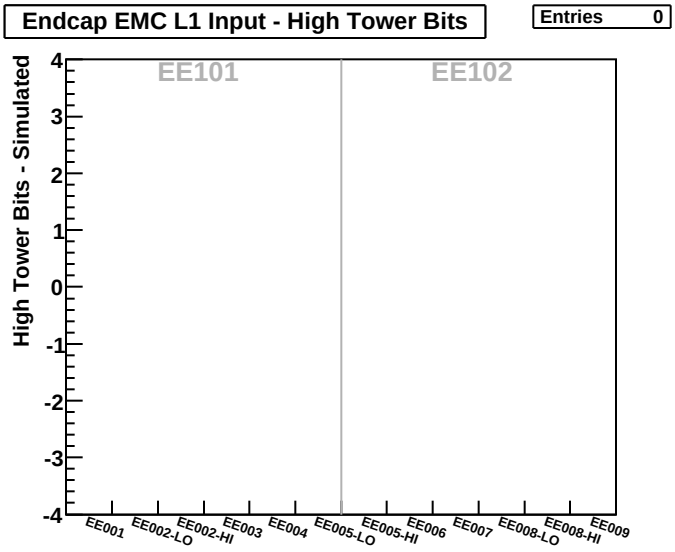

Endcap EMC L1 Input - Low Eta Sum
Entries 2882628
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

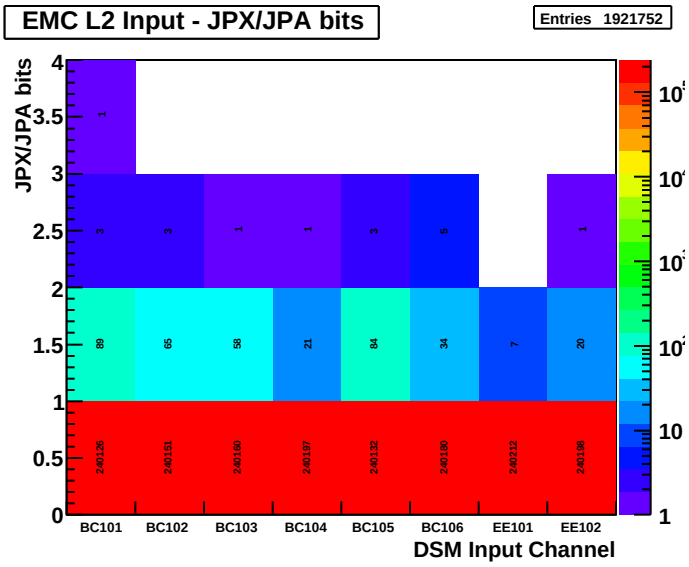

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

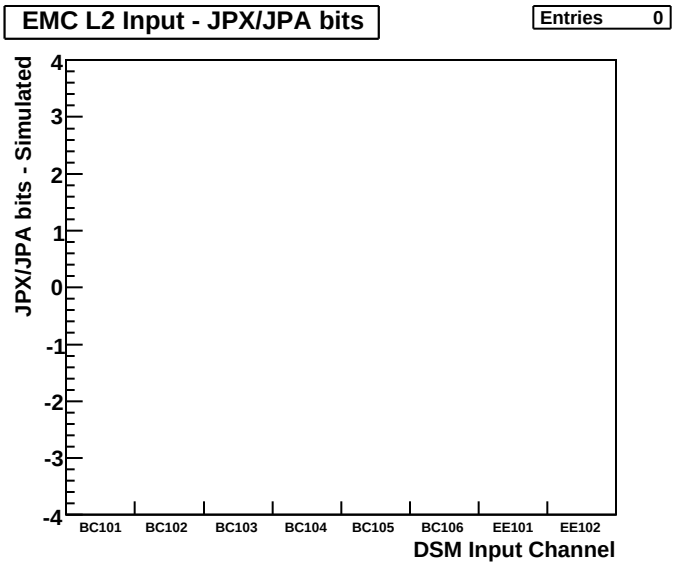

Endcap EMC L1 Input - High Eta Sum
Entries 2882628
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

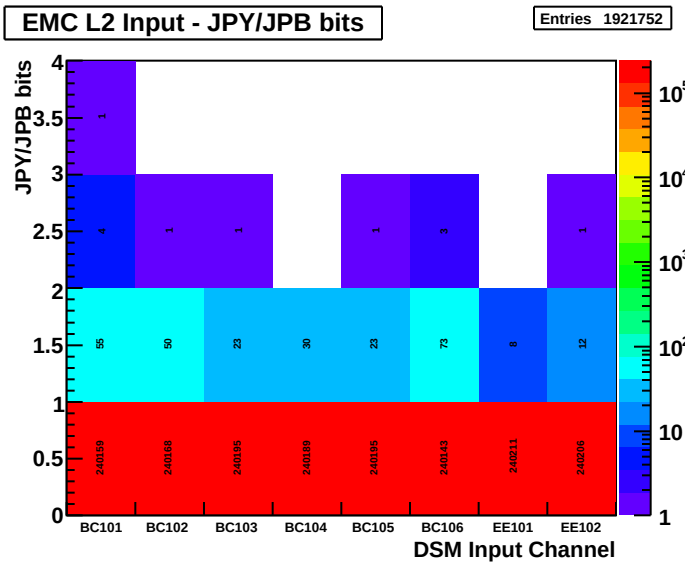

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

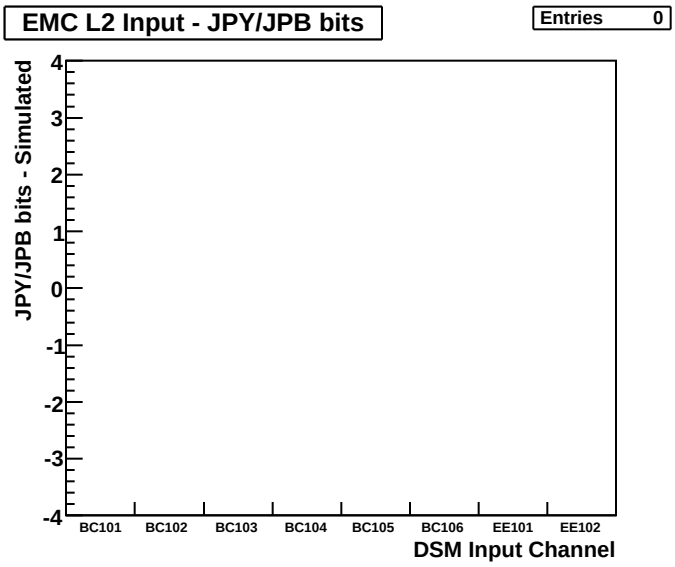

Endcap EMC L1 Input - High Tower Bits
Entries 2882628
High Tower Bits
EE101
EE102
240219
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

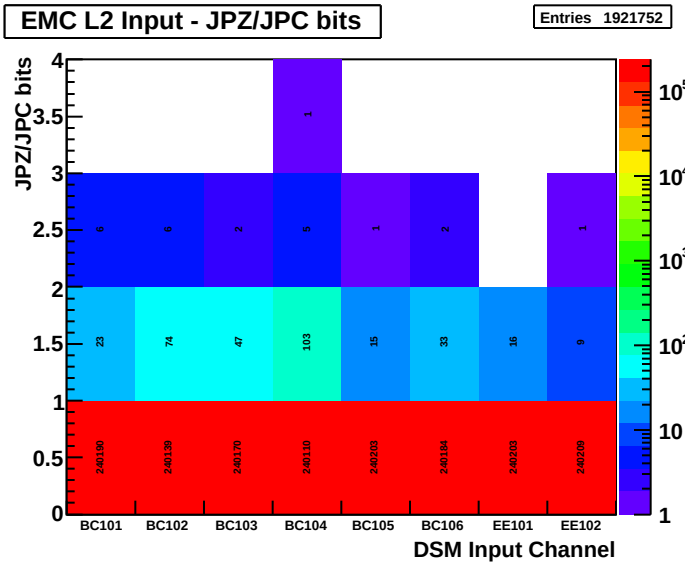

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

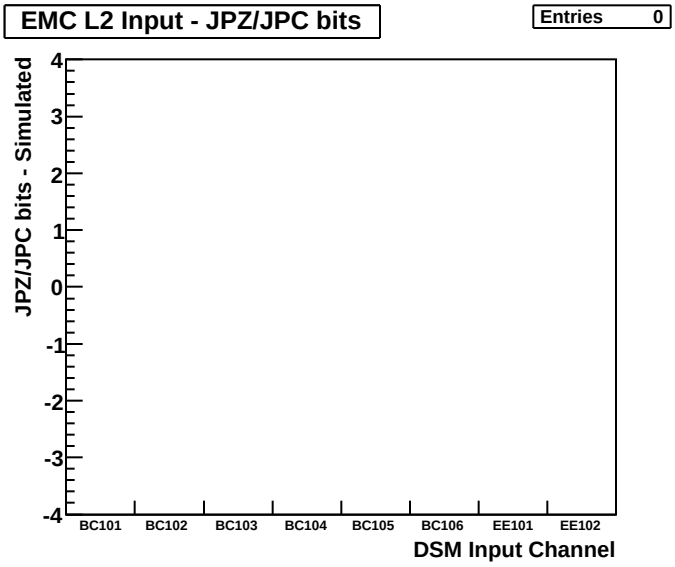

EMC L2 Input - JPX/JPA bits
Entries 1921752
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
240126 240151 240160 240197 240132 240180 240212 240198
89 65 58 21 84 34 7 20
3 3 1 1 3 5 1
1

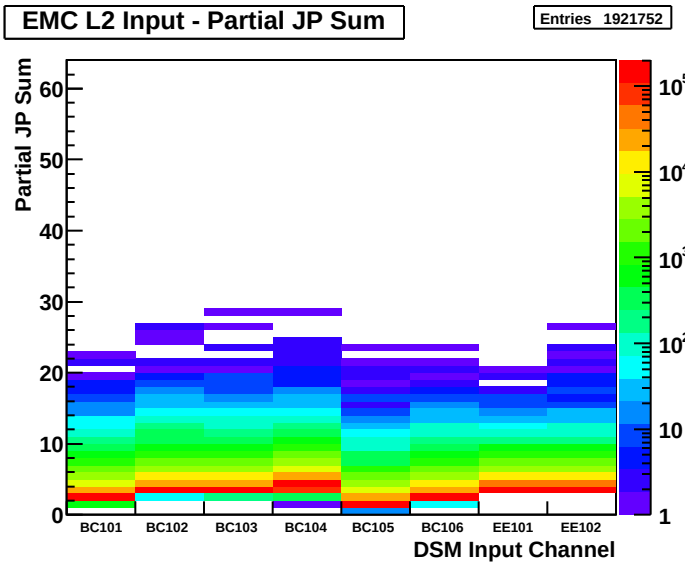

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

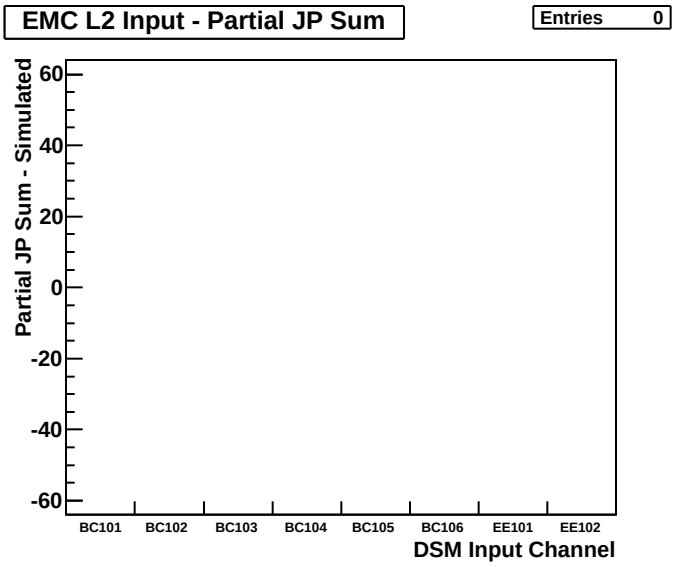

EMC L2 Input - JPY/JPB bits
Entries 1921752
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
240159 240168 240195 240189 240195 240143 240211 240206
55 50 23 30 23 73 8 12
4 1 1 1 3 1
1

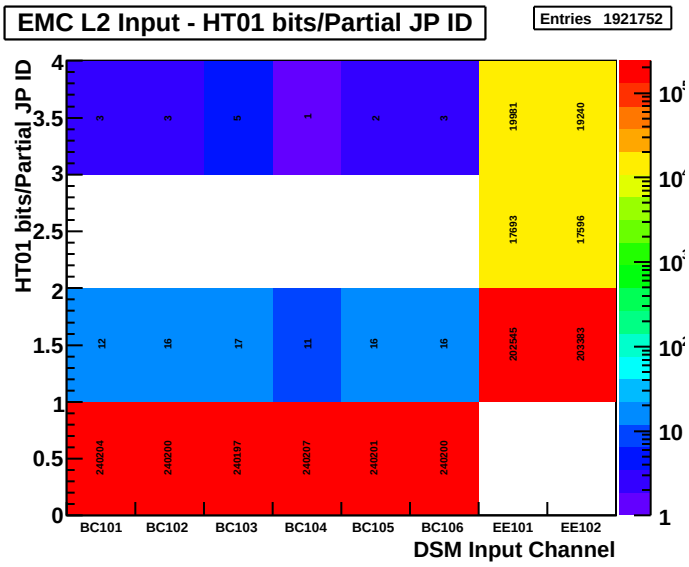

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

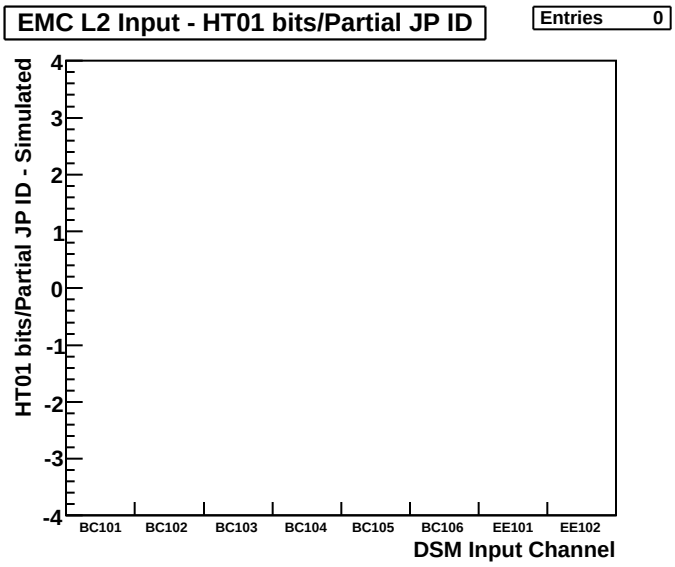

EMC L2 Input - JPZ/JPC bits
Entries 1921752
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
240150 240139 240170 240110 240203 240184 240203 240209
23 74 47 103 15 33 16 9
6 6 2 5 1 2 1
1

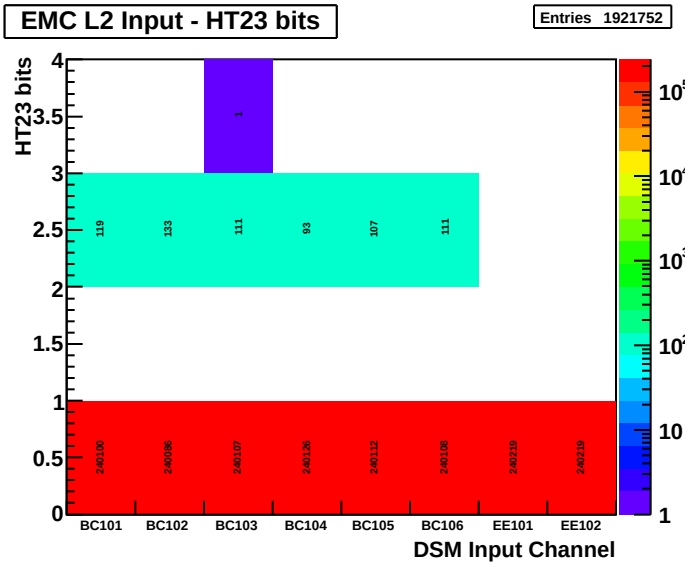

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

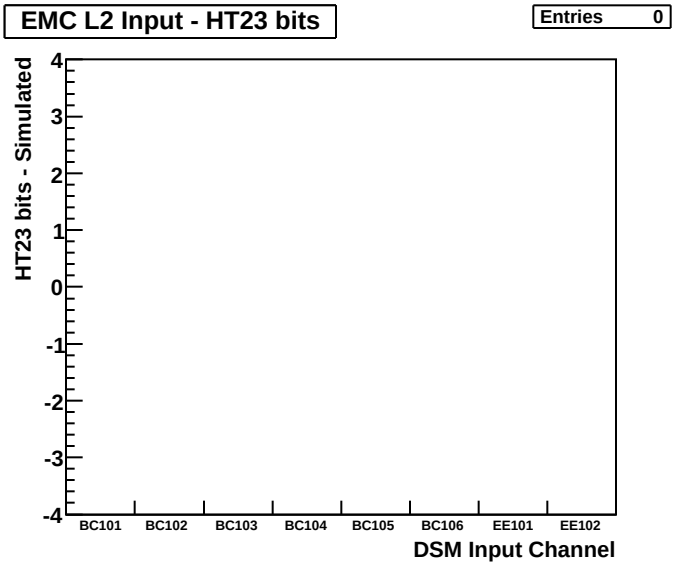

EMC L2 Input - Partial JP Sum
Entries 1921752
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

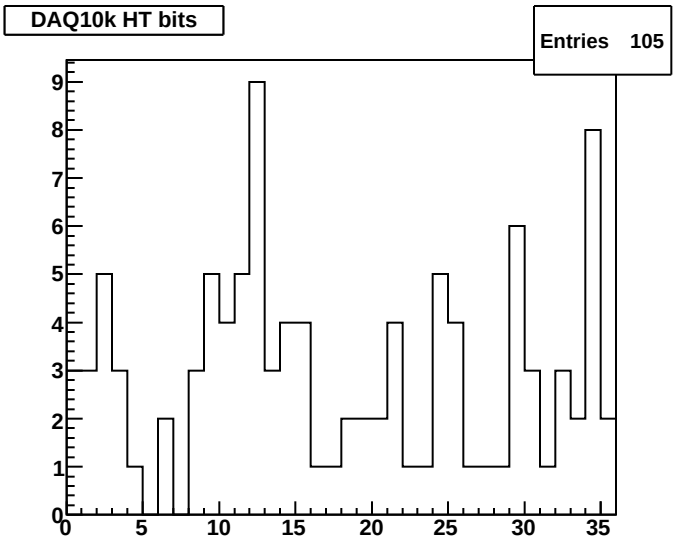

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

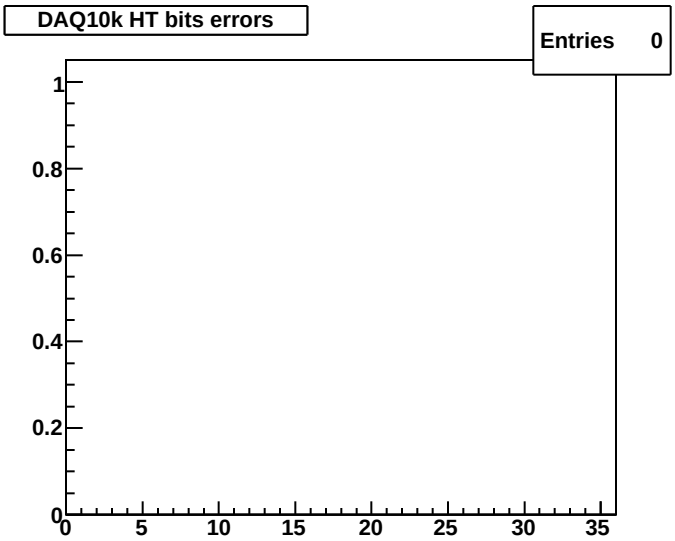

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1921752
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

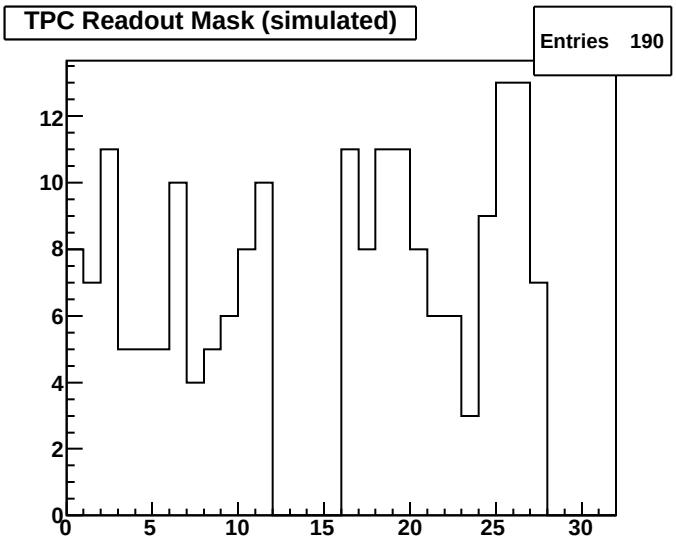

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

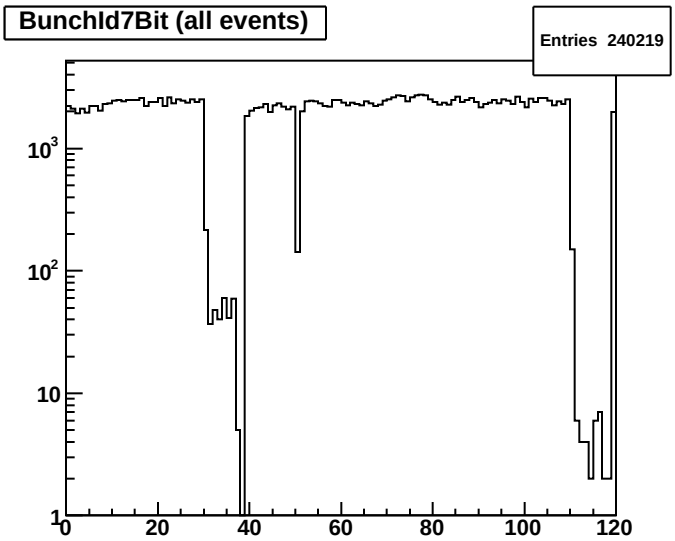

EMC L2 Input - HT23 bits
Entries 1921752
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

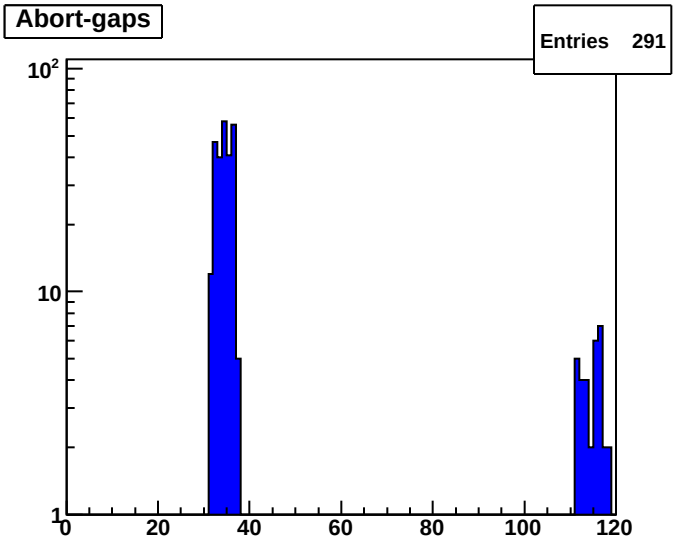

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

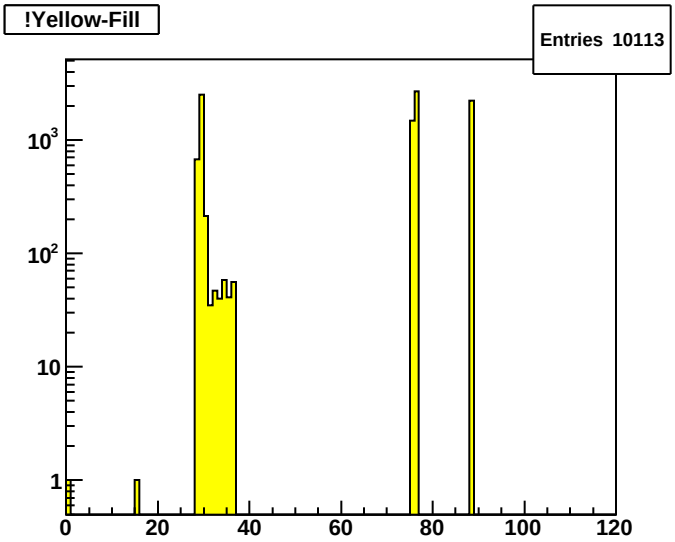

DAQ10k HT bits
Entries 105

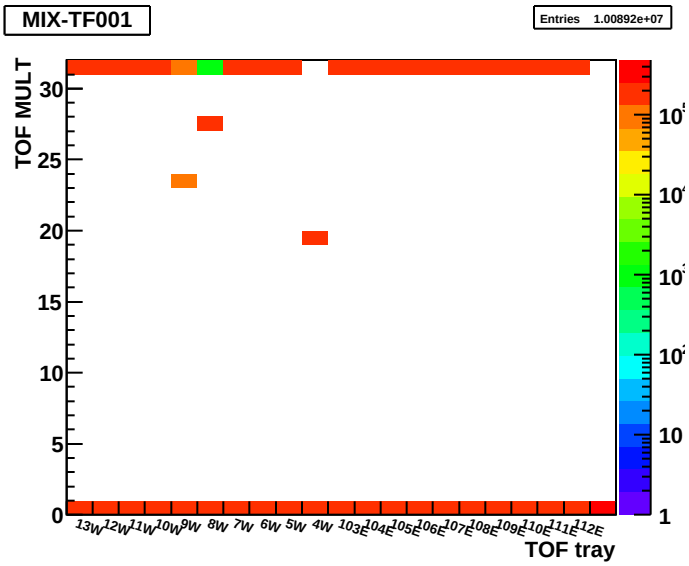

DAQ10k HT bits errors
Entries 0

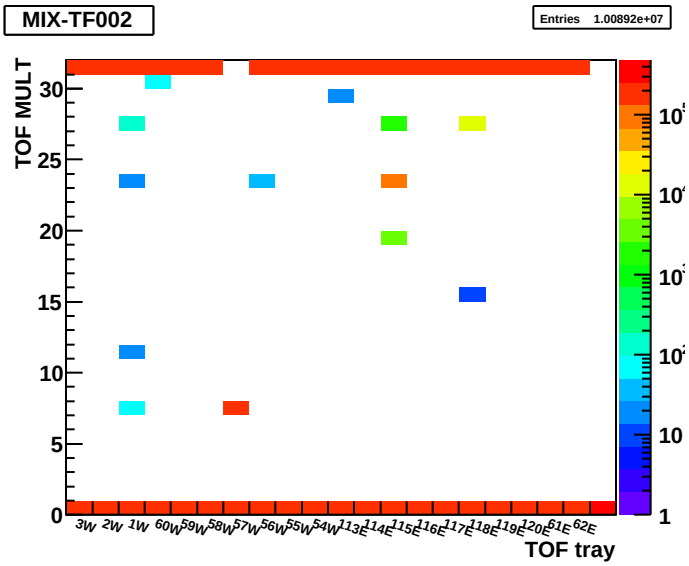

TPC Readout Mask (simulated)
Entries 190

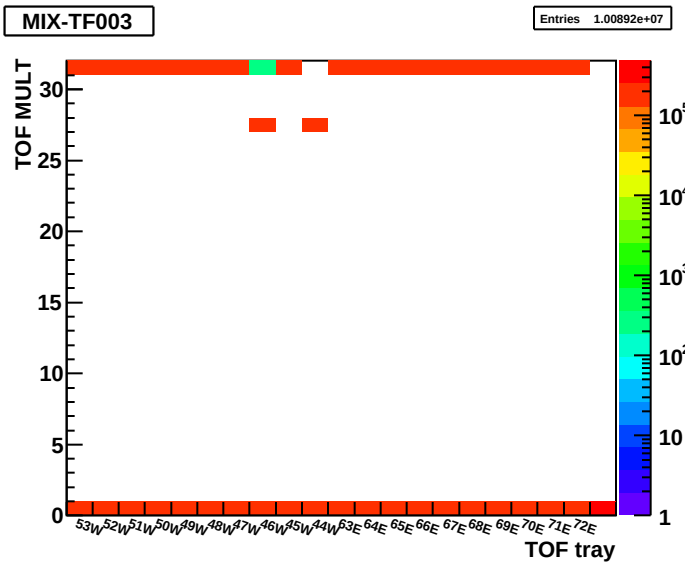

BunchId7Bit (all events)
Entries 240219

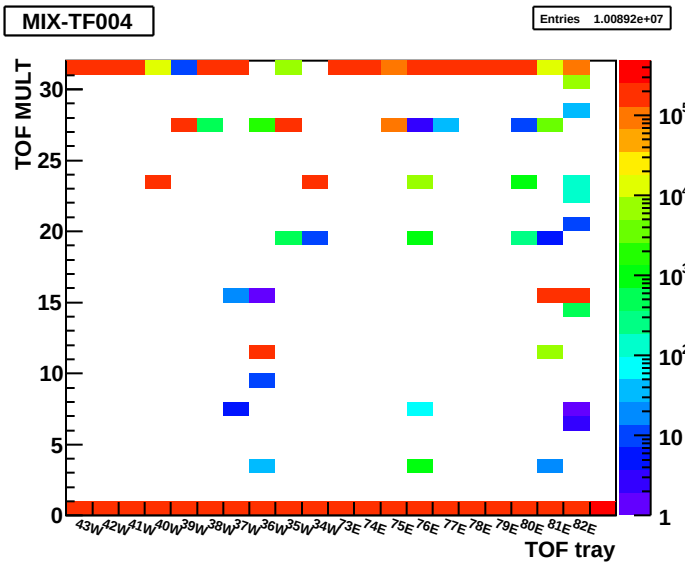

Abort-gaps
Entries 291

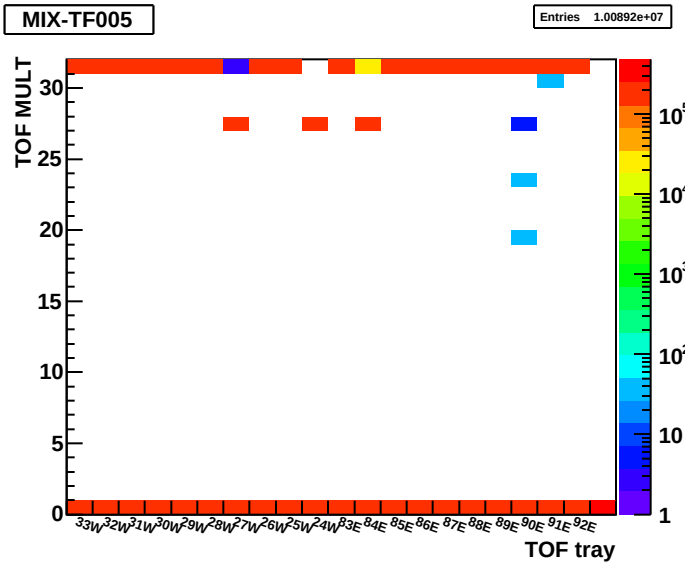

!Yellow-Fill
Entries 10113

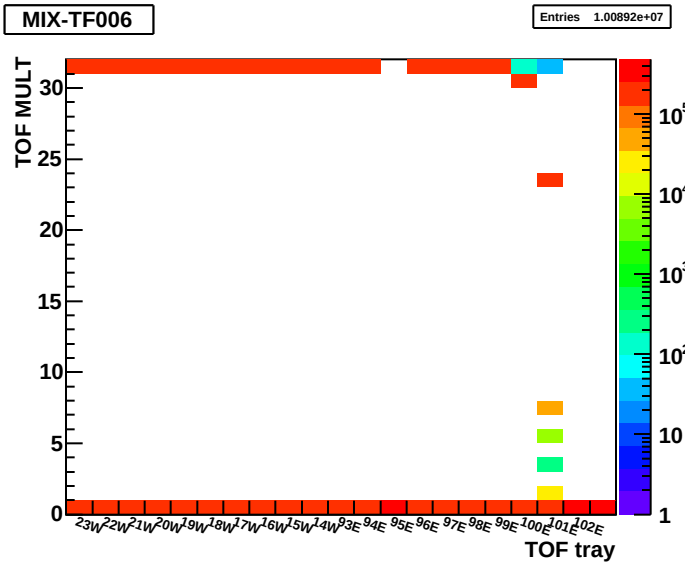

MIX-TF001
Entries 1.00892e+07
TOF MULT
TOF tray

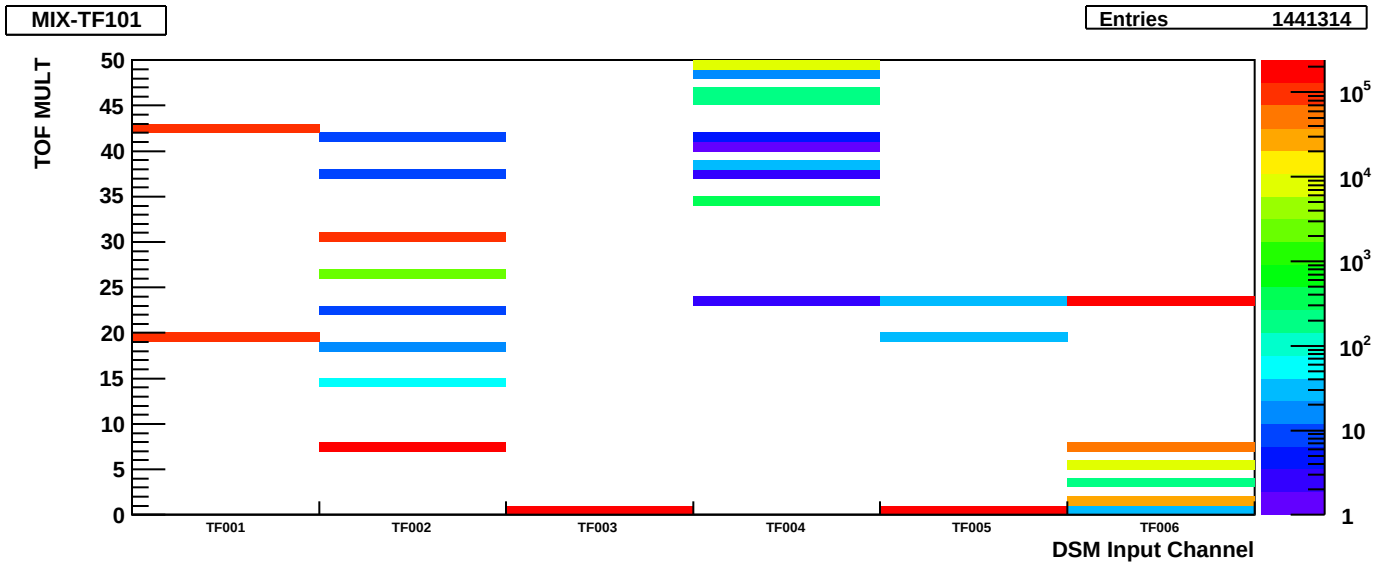

MIX-TF002
Entries 1.00892e+07
TOF MULT
TOF tray

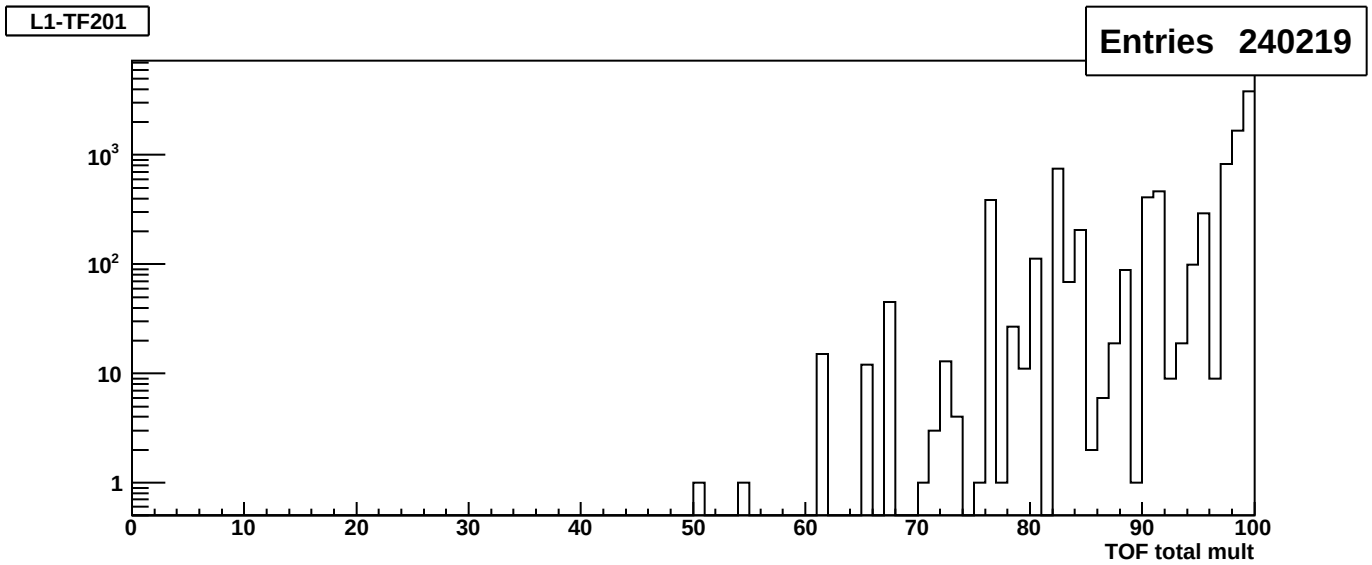

MIX-TF003
Entries 1.00892e+07
TOF MULT
TOF tray

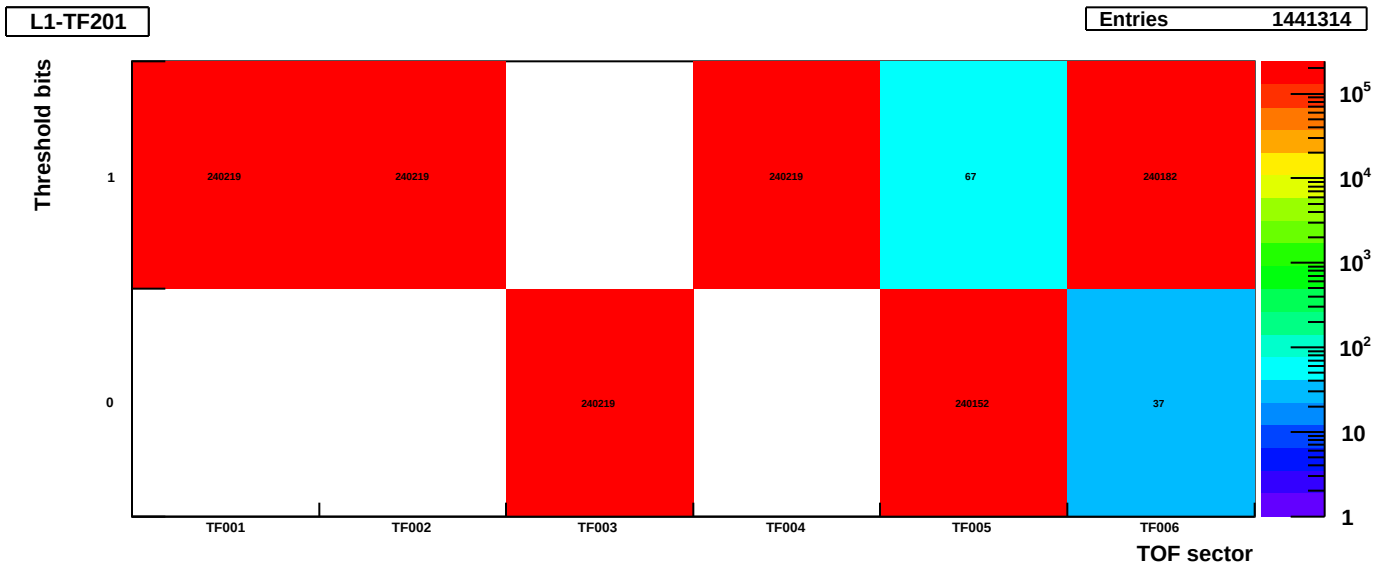

MIX-TF004
Entries 1.00892e+07
TOF MULT
TOF tray

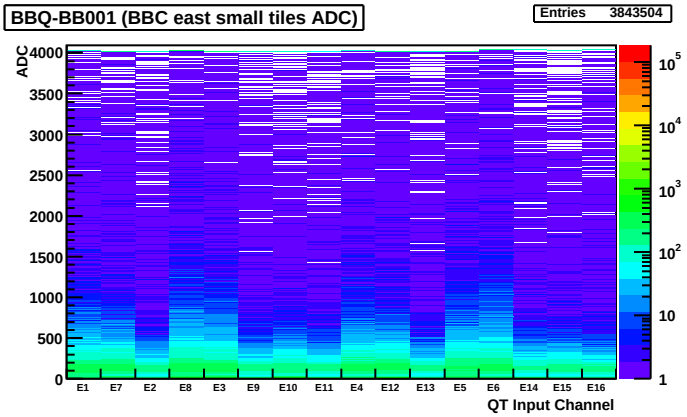

MIX-TF005
Entries 1.00892e+07
TOF MULT
TOF tray

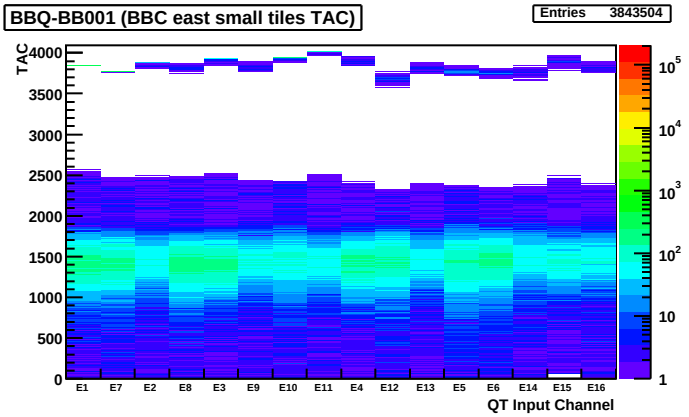

MIX-TF006
Entries 1.00892e+07
TOF MULT
TOF tray

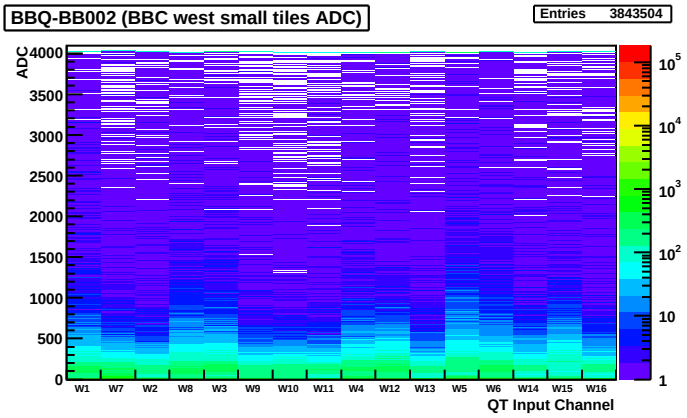

MIX-TF101
Entries 1441314
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

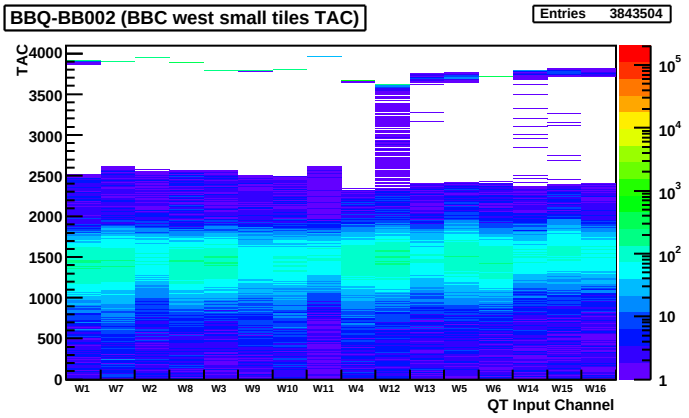

L1-TF201
Entries 240219
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

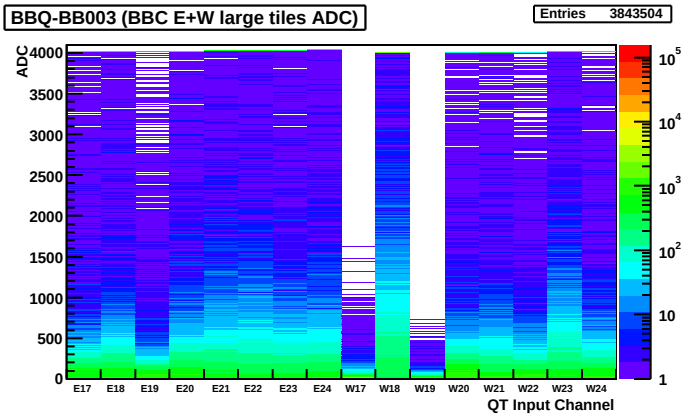

L1-TF201
Entries 1441314
Threshold bits
1
0
240219
240219
240219
67
240182
240219
240152
37
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4
10^3
10^2
10
1

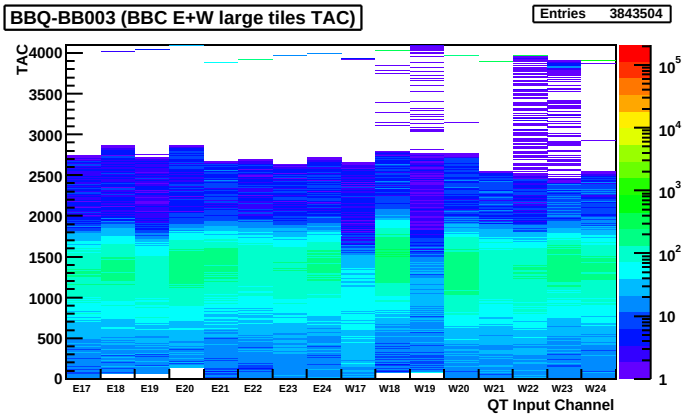

BBQ-BB001 (BBC east small tiles ADC)
Entries 3843504
ADC
QT Input Channel

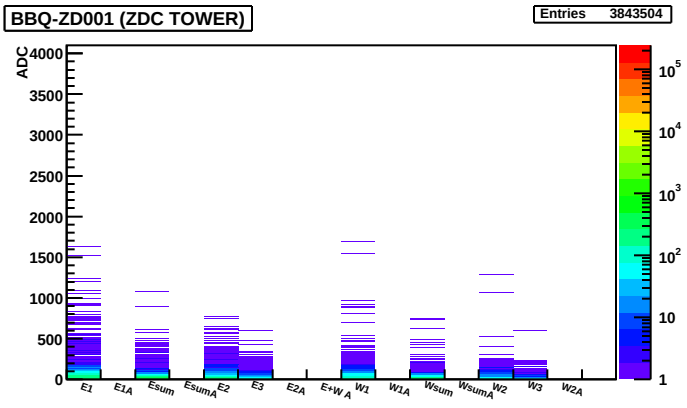

BBQ-BB001 (BBC east small tiles TAC)
Entries 3843504
TAC
QT Input Channel

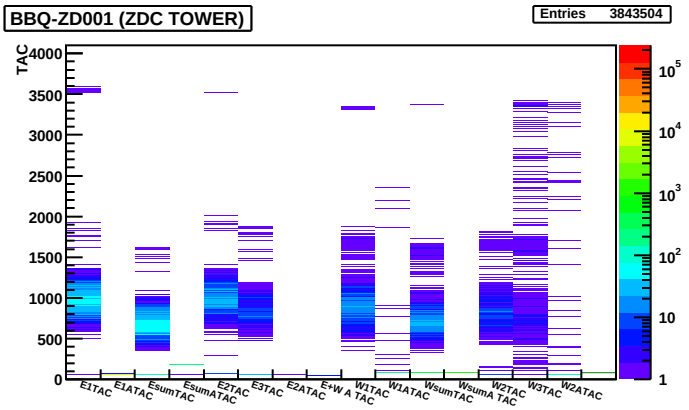

BBQ-BB002 (BBC west small tiles ADC)
Entries 3843504
ADC
QT Input Channel

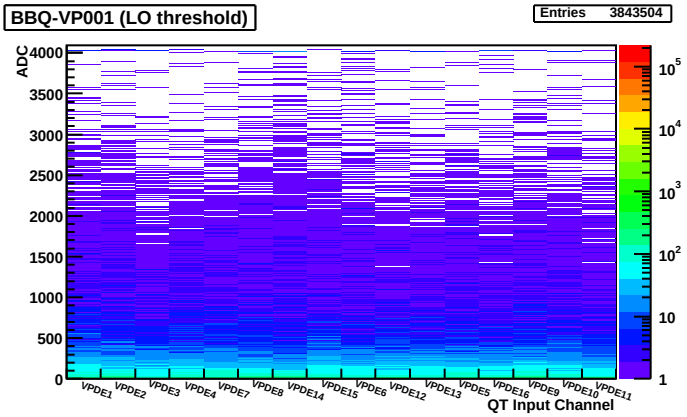

BBQ-BB002 (BBC west small tiles TAC)
Entries 3843504
TAC
QT Input Channel

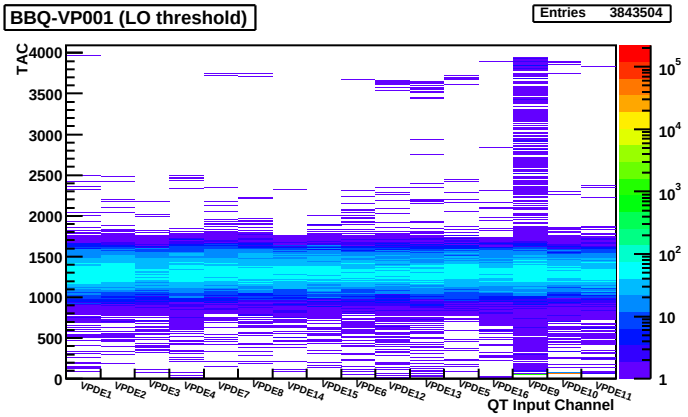

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3843504
ADC
QT Input Channel

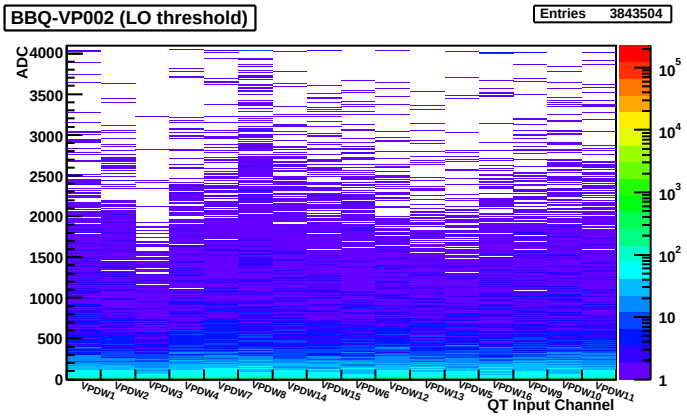

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3843504
TAC
QT Input Channel

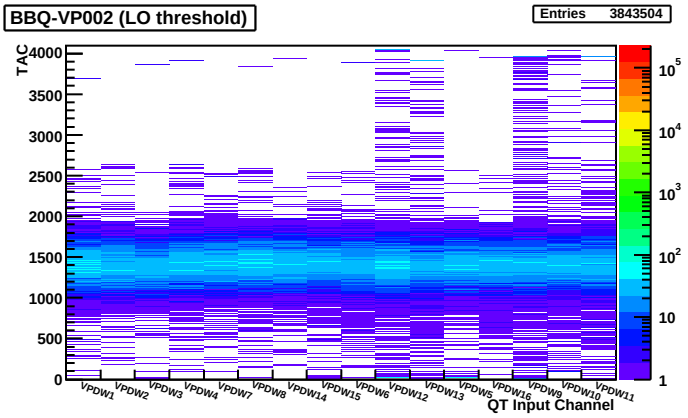

BBQ-ZD001 (ZDC TOWER)
Entries 3843504
ADC

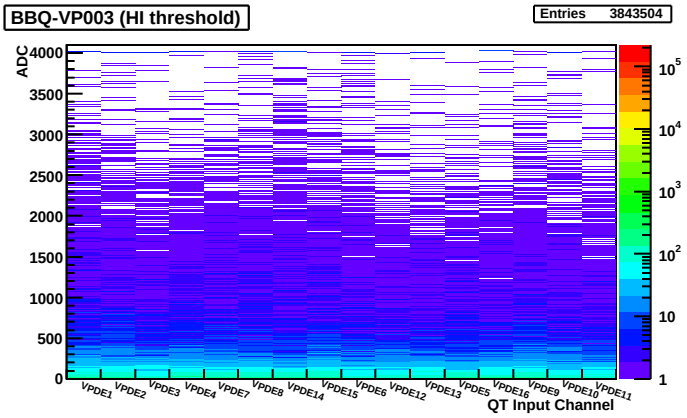

BBQ-ZD001 (ZDC TOWER)
Entries 3843504
TAC

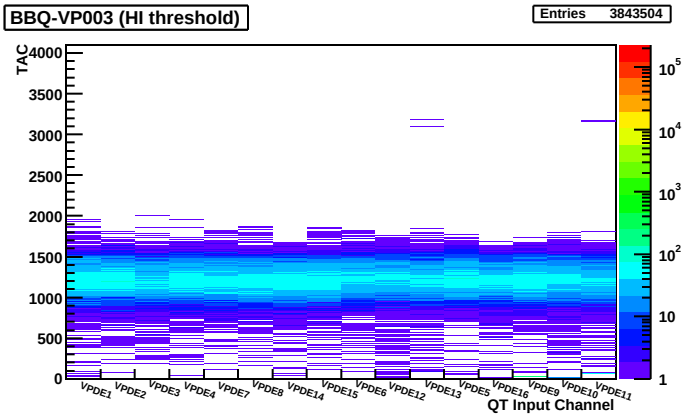

BBQ-VP001 (LO threshold)
Entries 3843504
ADC
QT Input Channel

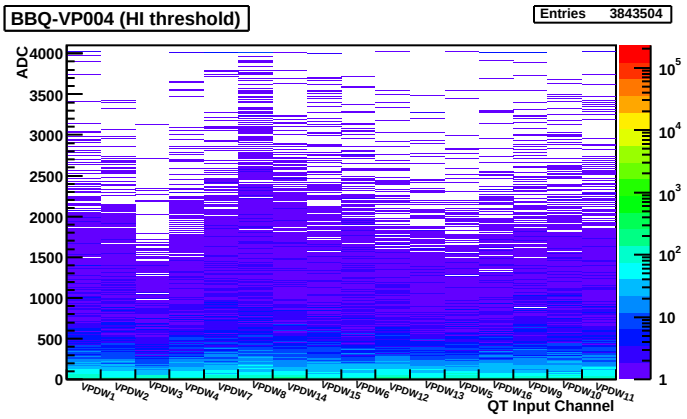

BBQ-VP001 (LO threshold)
Entries 3843504
TAC
QT Input Channel

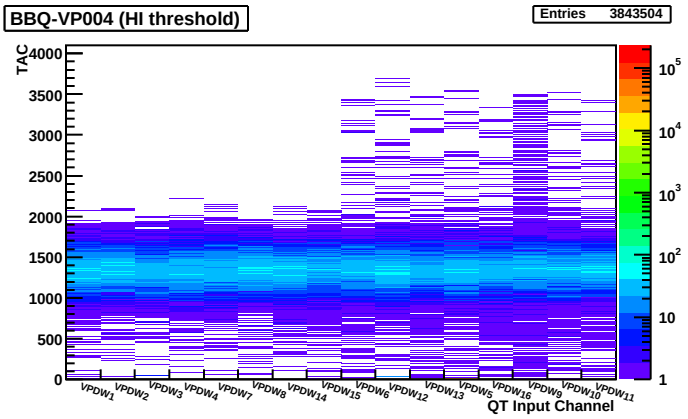

BBQ-VP002 (LO threshold)
Entries 3843504
ADC
QT Input Channel

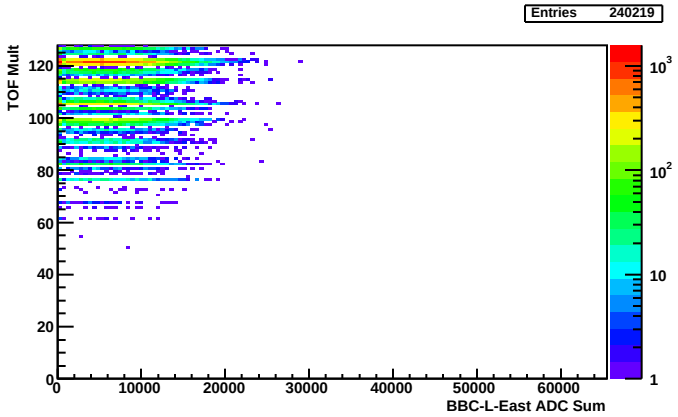

BBQ-VP002 (LO threshold)
Entries 3843504
TAC
QT Input Channel

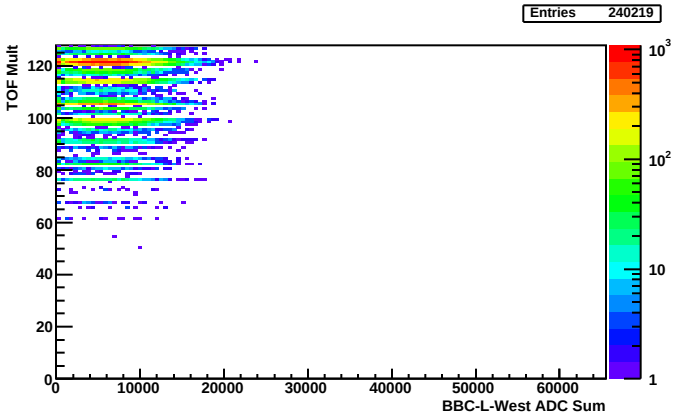

BBQ-VP003 (HI threshold)
Entries 3843504
ADC
QT Input Channel

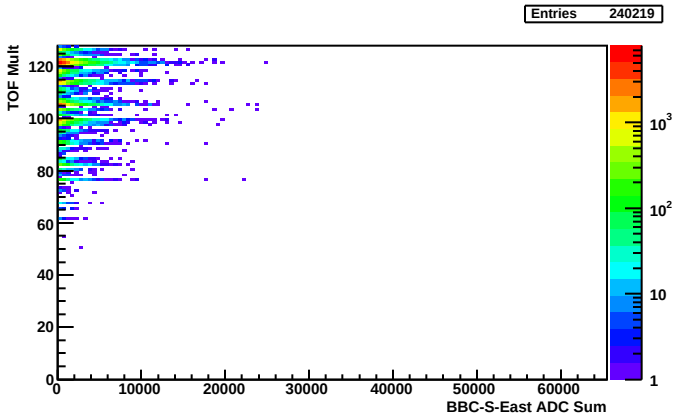

BBQ-VP003 (HI threshold)
Entries 3843504
TAC
QT Input Channel

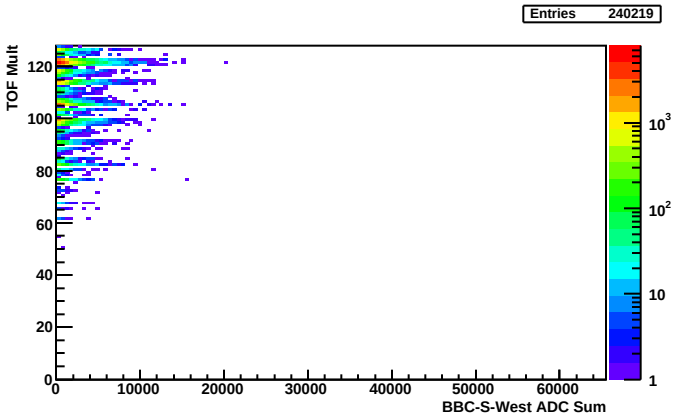

BBQ-VP004 (HI threshold)
Entries 3843504
ADC
QT Input Channel

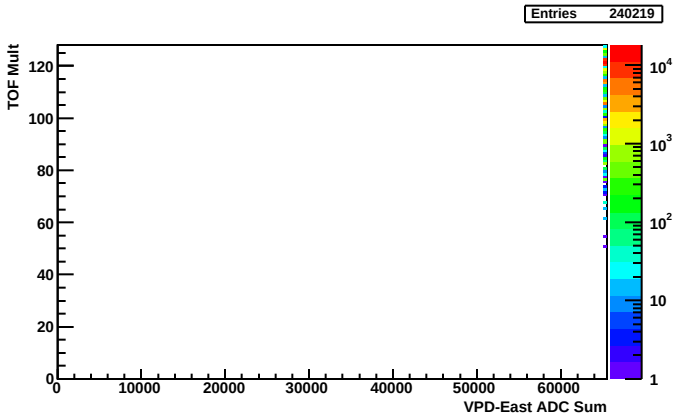

BBQ-VP004 (HI threshold)
Entries 3843504
TAC
QT Input Channel

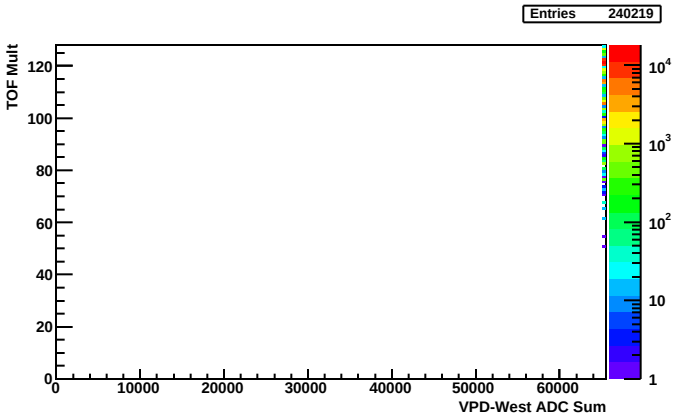

Entries 240219
TOF Mult
BBC-L-East ADC Sum

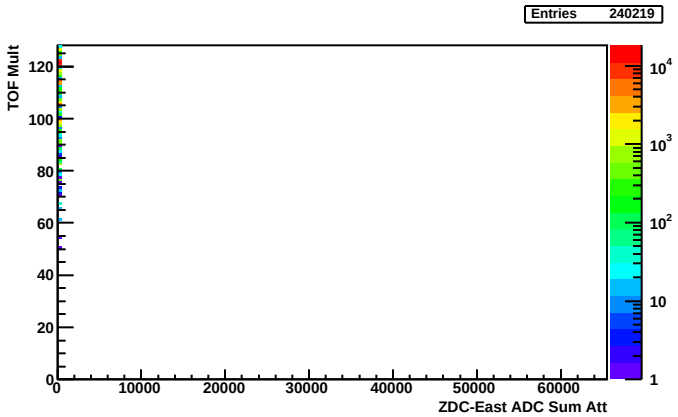

Entries 240219
TOF Mult
BBC-L-West ADC Sum

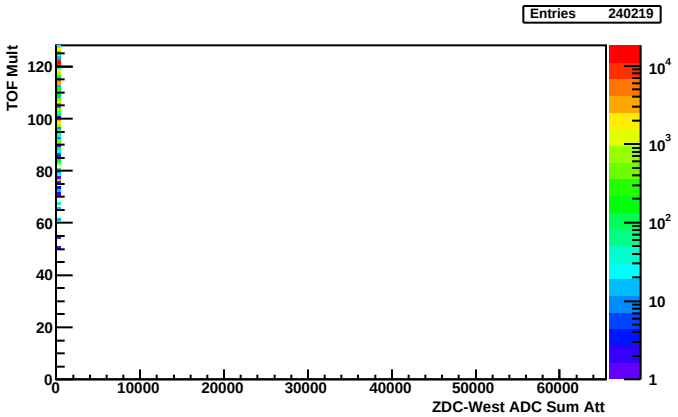

Entries 240219
TOF Mult
BBC-S-East ADC Sum

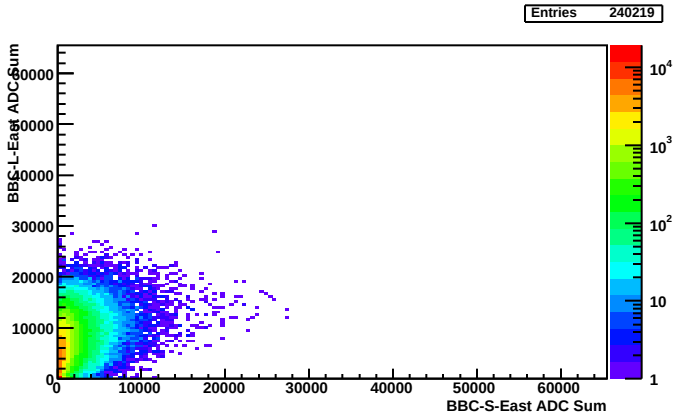

Entries 240219
TOF Mult
BBC-S-West ADC Sum

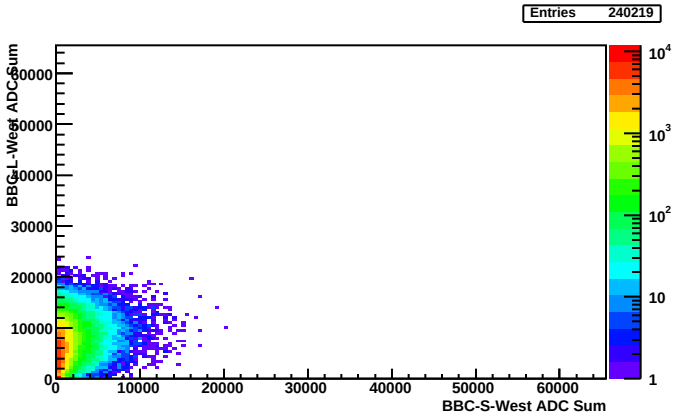

Entries 240219
TOF Mult
VPD-East ADC Sum

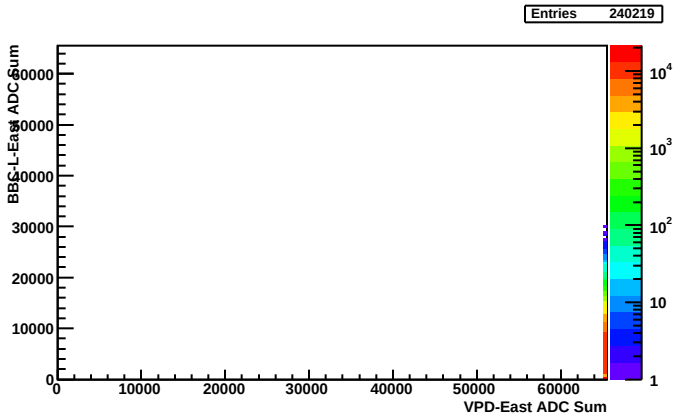

Entries 240219
TOF Mult
VPD-West ADC Sum

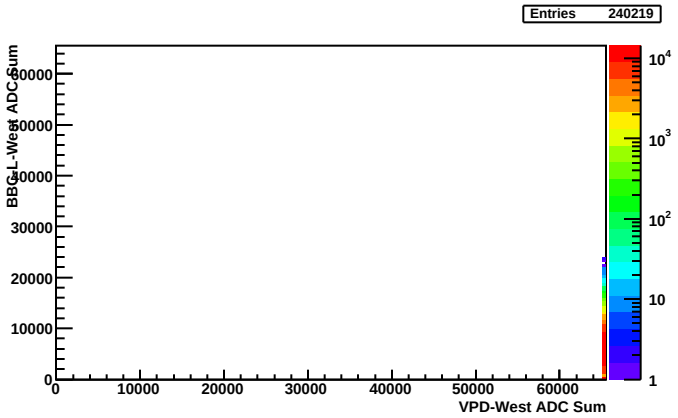

Entries 240219
TOF Mult
ZDC-East ADC Sum Att

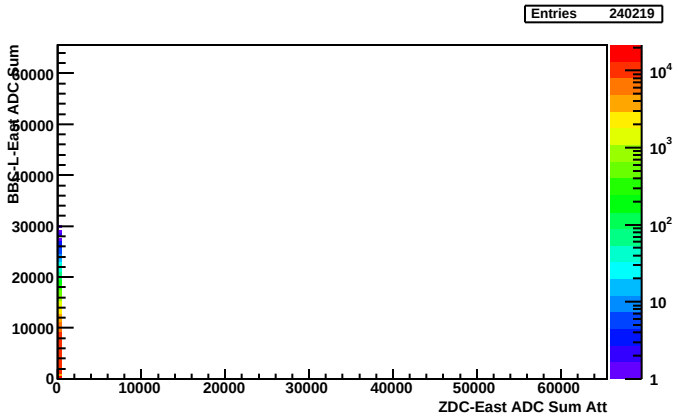

Entries 240219
TOF Mult
ZDC-West ADC Sum Att

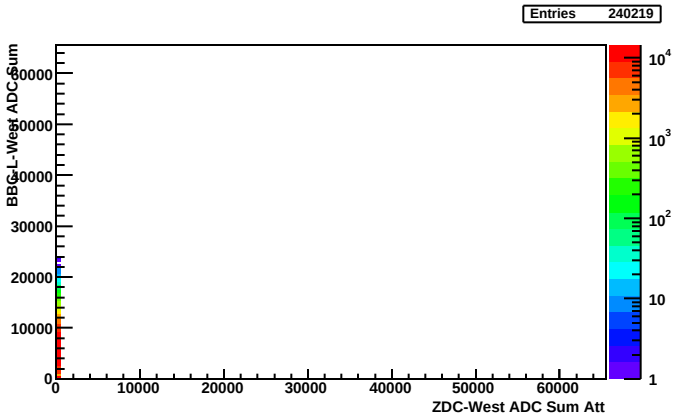

Entries 240219
BBC-L-East ADC Sum
BBC-S-East ADC Sum

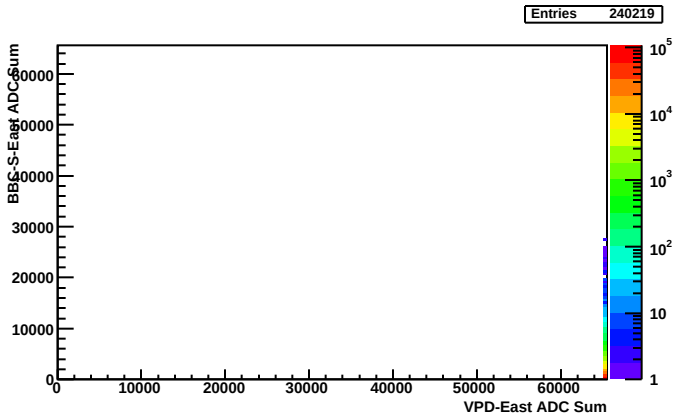

Entries 240219
BBC-L-West ADC Sum
BBC-S-West ADC Sum

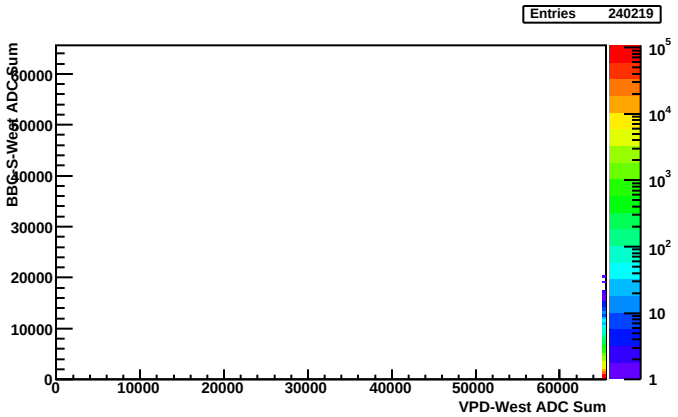

Entries 240219
BBC-L-East ADC Sum
VPD-East ADC Sum

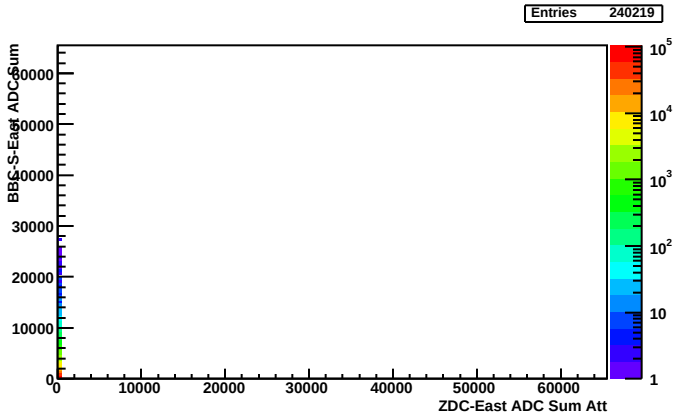

Entries 240219
BBC-L-West ADC Sum
VPD-West ADC Sum

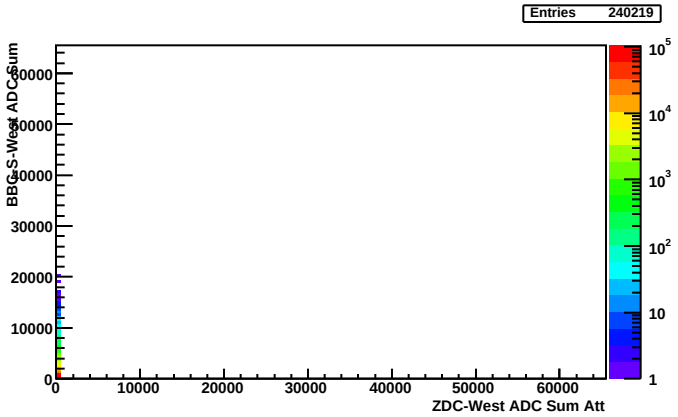

Entries 240219
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

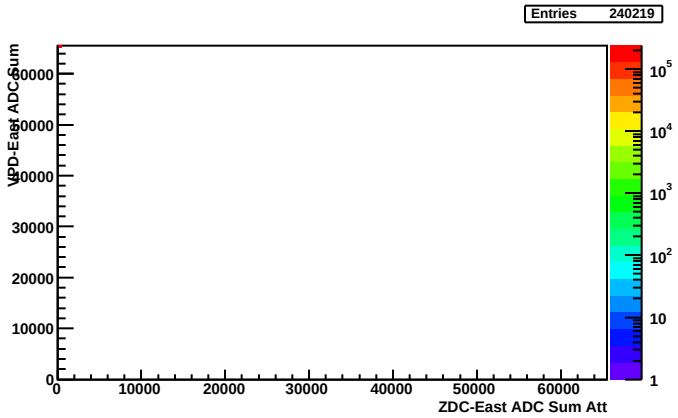

Entries 240219
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

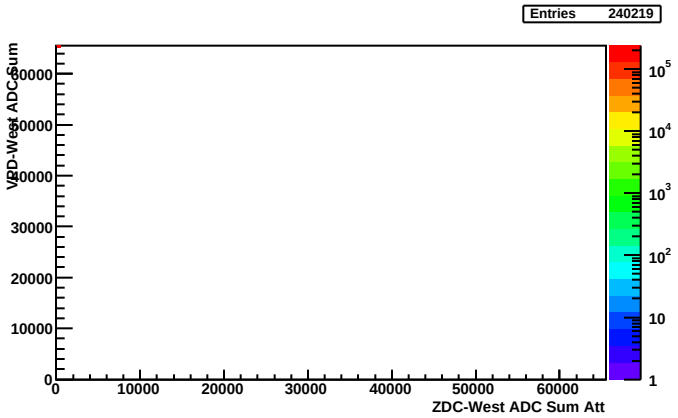

Entries 240219
BBC-S-East ADC Sum
VPD-East ADC Sum

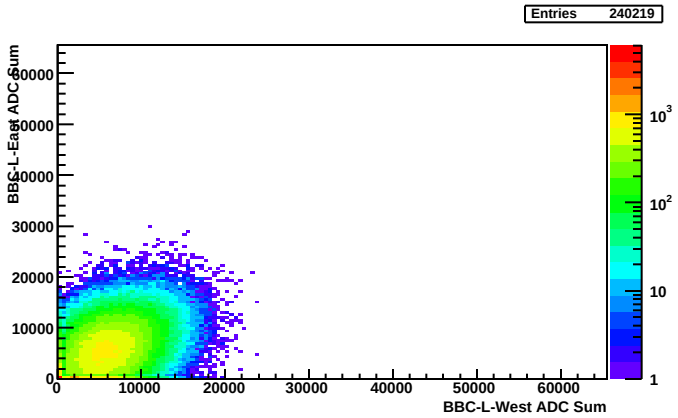

Entries 240219
BBC-S-West ADC Sum
VPD-West ADC Sum

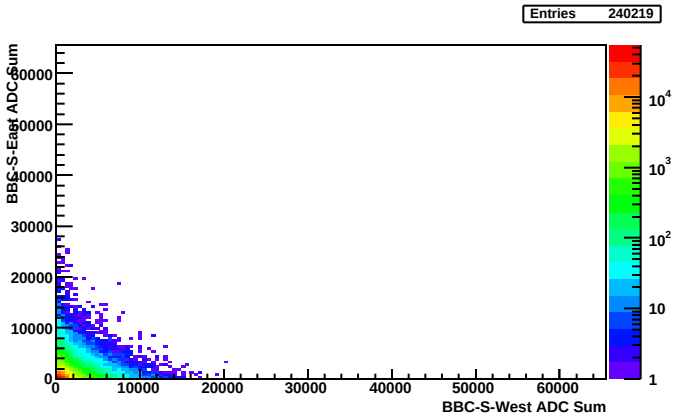

Entries 240219
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

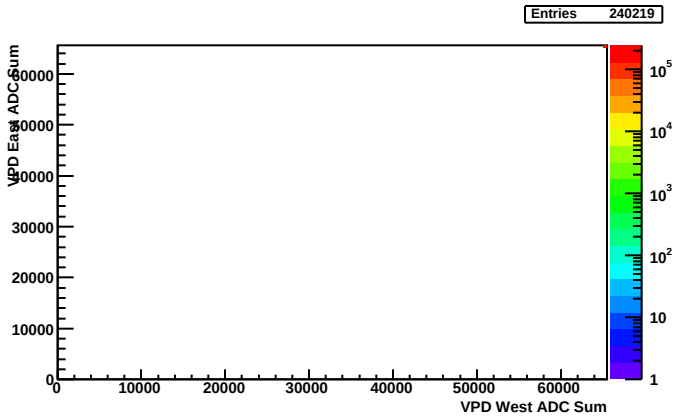

Entries 240219
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

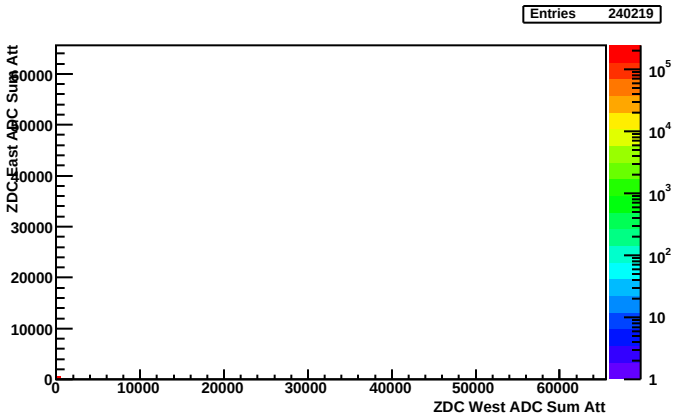

Entries 240219
VPD-East ADC Sum
ZDC-East ADC Sum Att

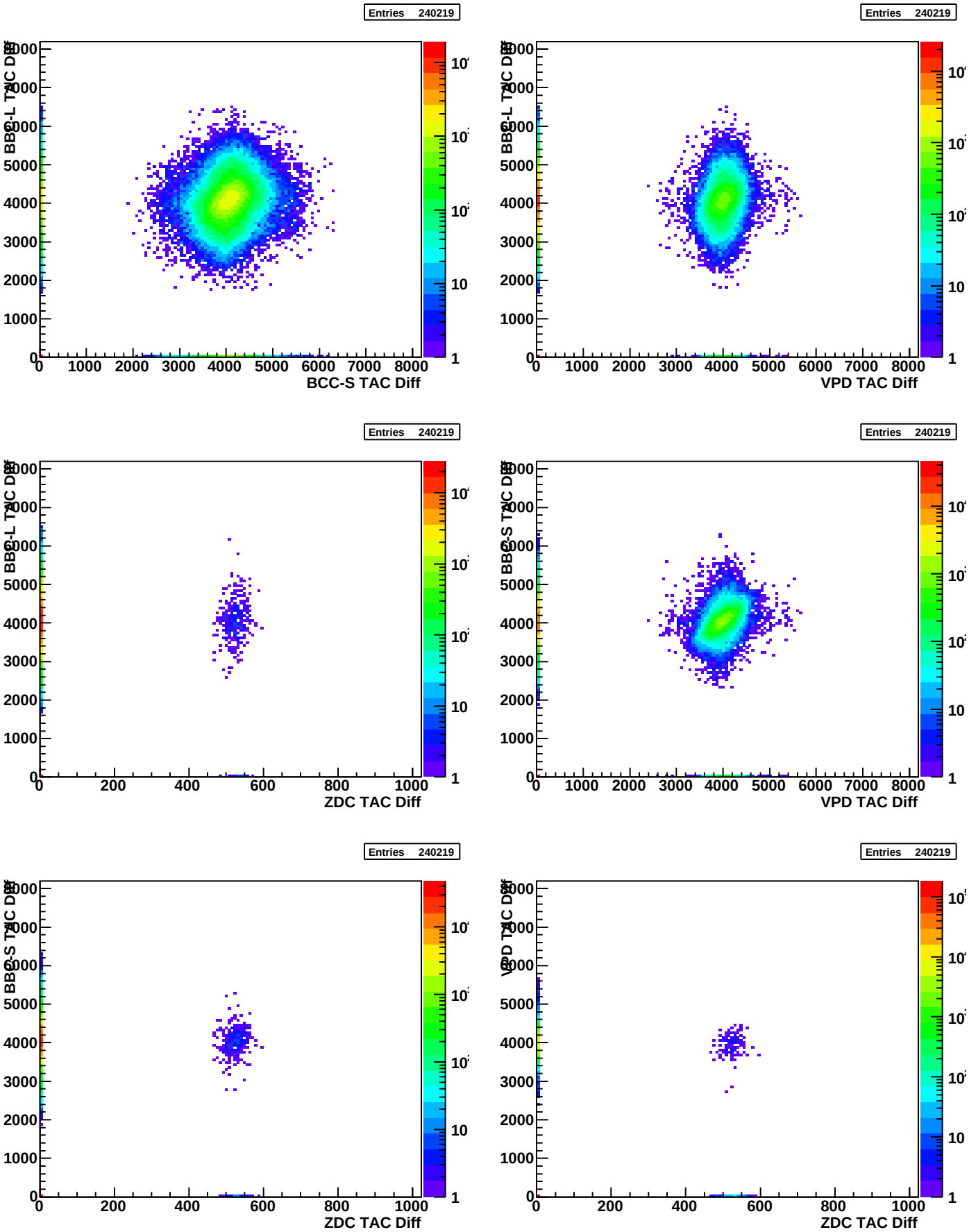

Entries 240219
VPD-West ADC Sum
ZDC-West ADC Sum Att

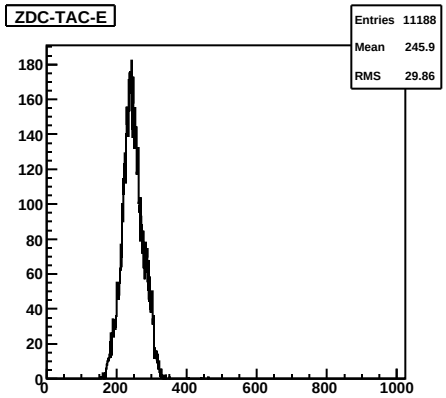

Entries 240219
BBC-L-East ADC Sum
BBC-L-West ADC Sum

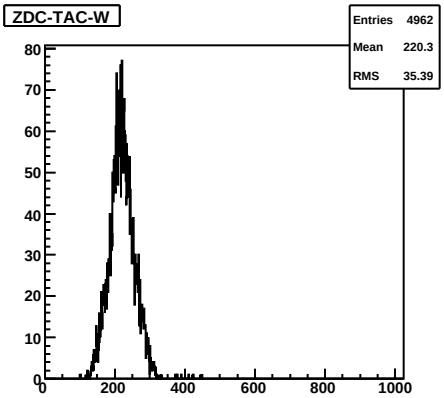

Entries 240219
BBC-S-East ADC Sum
BBC-S-West ADC Sum

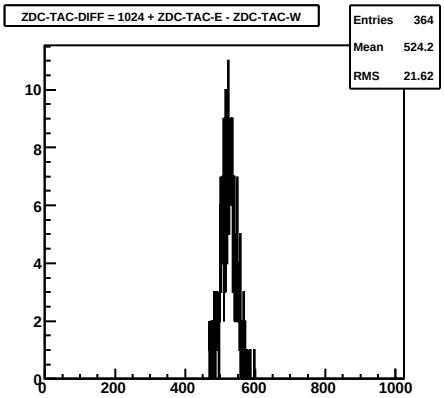

Entries 240219
VPD East ADC Sum
VPD West ADC Sum

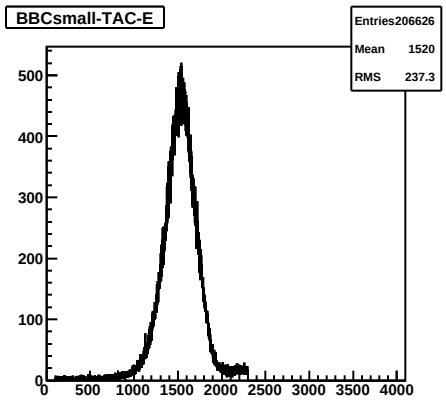

Entries 240219
ZDC East ADC Sum Att
ZDC West ADC Sum Att

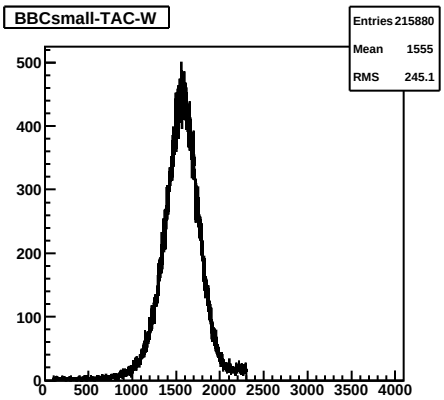

Entries 240219
BBC-L TAC Diff
BCC-S TAC Diff
Entries 240219
BBC-L TAC Diff
VPD TAC Diff
Entries 240219
BBC-L TAC Diff
ZDC TAC Diff
Entries 240219
BBC-S TAC Diff
VPD TAC Diff
Entries 240219
BBC-S TAC Diff
ZDC TAC Diff
Entries 240219
VPD TAC Diff
ZDC TAC Diff

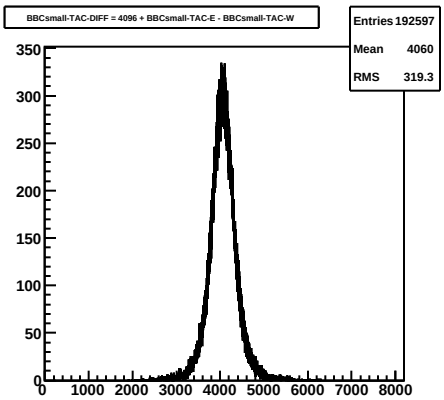

ZDC-TAC-E
Entries 11188
Mean 245.9
RMS 29.86

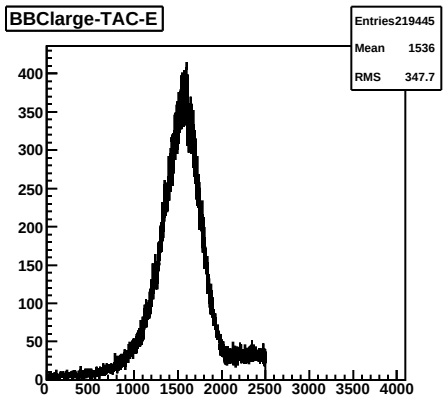

ZDC-TAC-W
Entries 4962
Mean 220.3
RMS 35.39

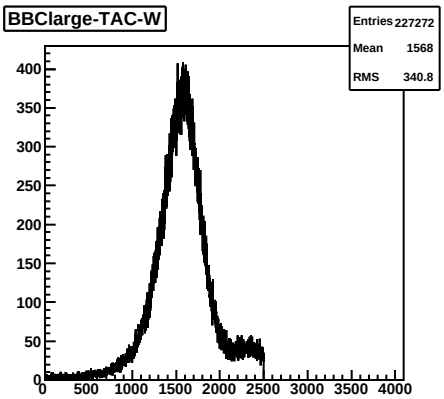

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 364
Mean 524.2
RMS 21.62

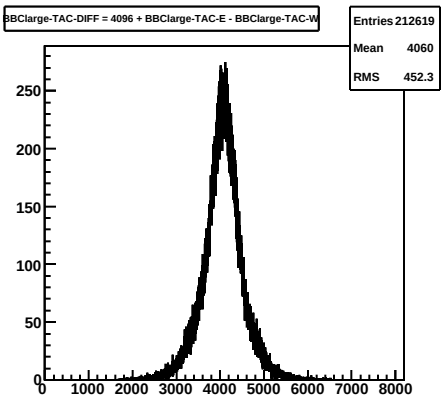

BBCsmall-TAC-E
Entries 206626
Mean 1520
RMS 237.3

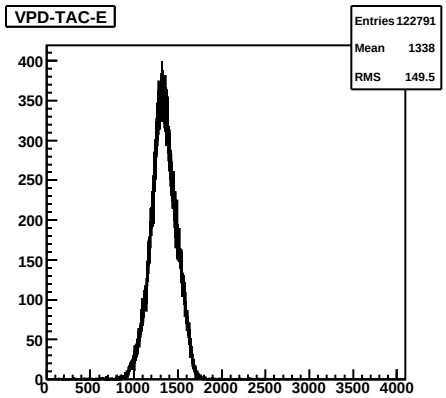

BBCsmall-TAC-W
Entries 215880
Mean 1555
RMS 245.1

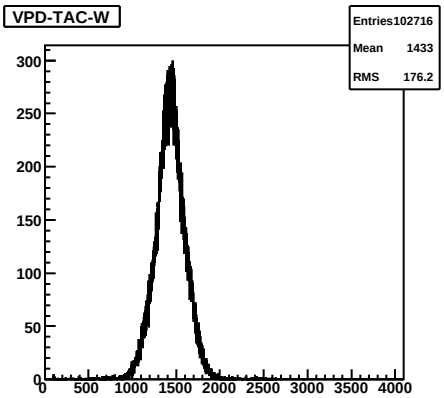

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 192597
Mean 4060
RMS 319.3

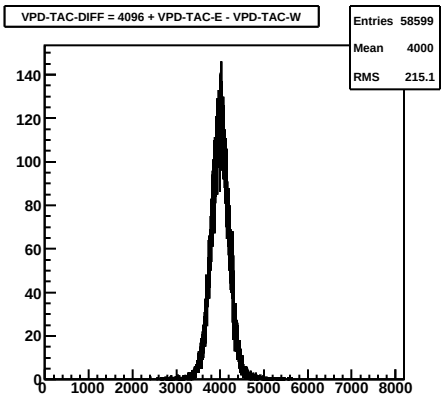

BBClarge-TAC-E
Entries 219445
Mean 1536
RMS 347.7

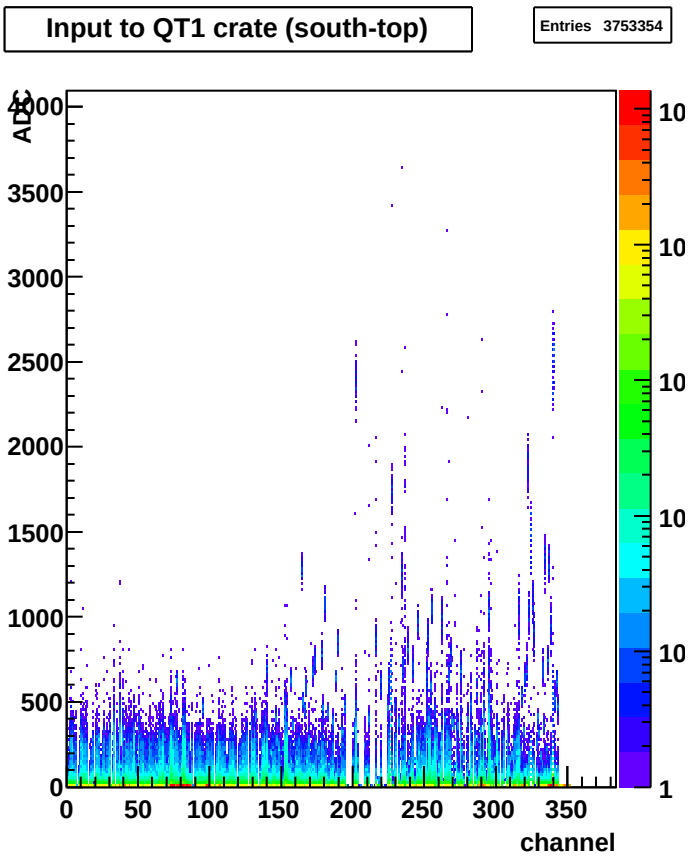

BBClarge-TAC-W
Entries 227272
Mean 1568
RMS 340.8

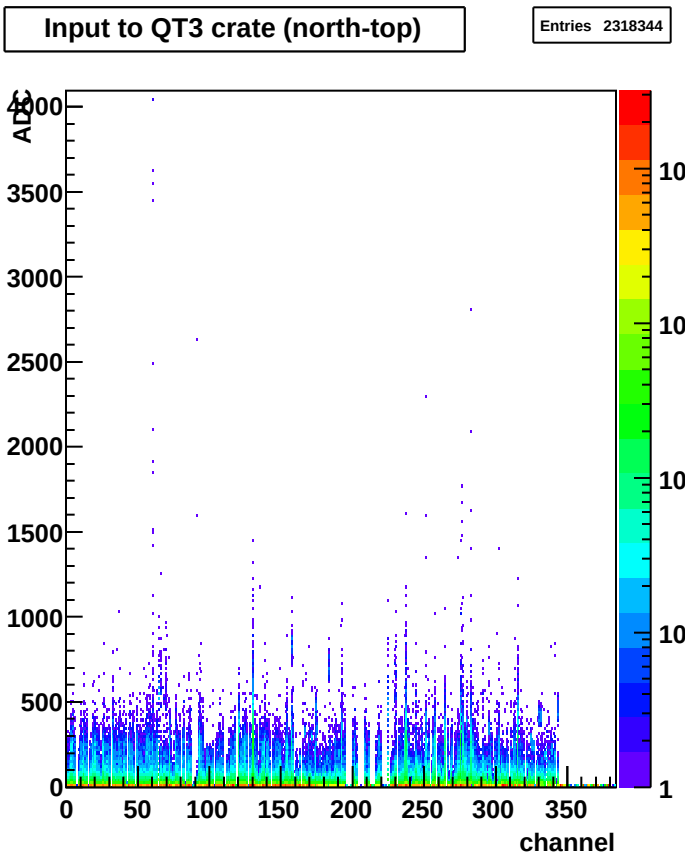

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 212619
Mean 4060
RMS 452.3

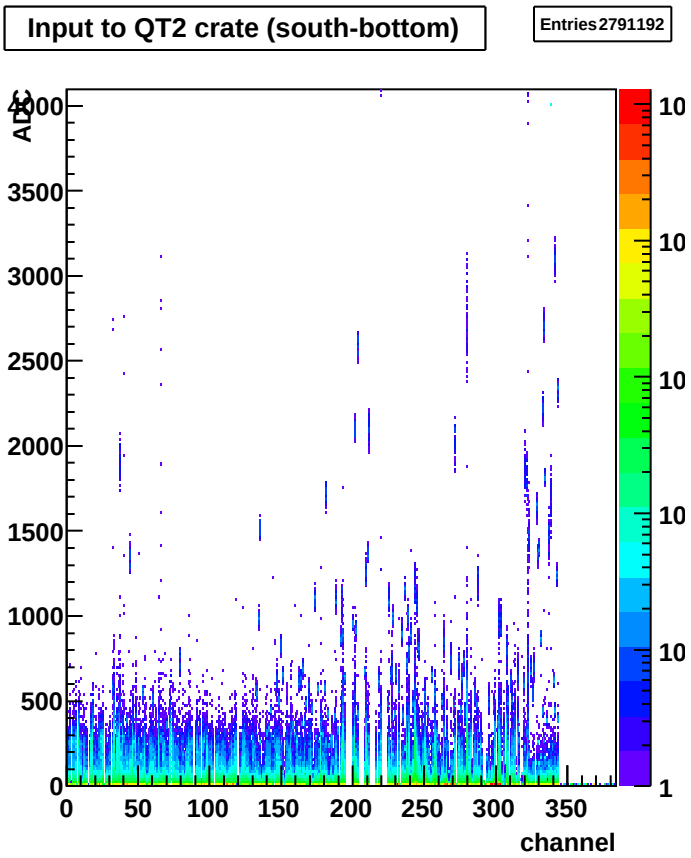

VPD-TAC-E
Entries 122791
Mean 1338
RMS 149.5

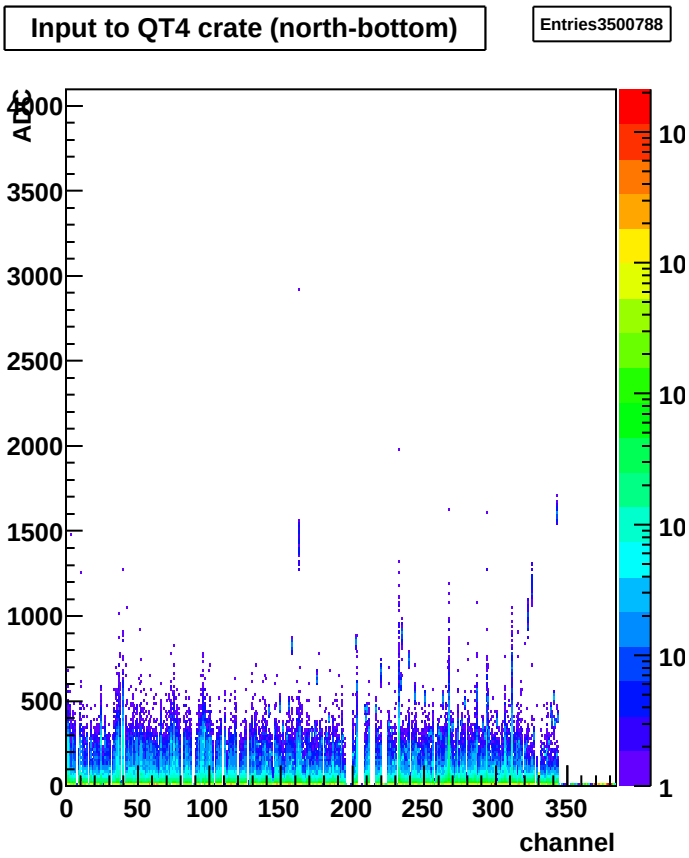

VPD-TAC-W
Entries 102716
Mean 1433
RMS 176.2

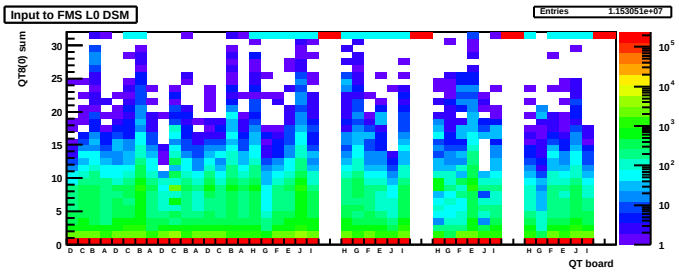

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 58599
Mean 4000
RMS 215.1

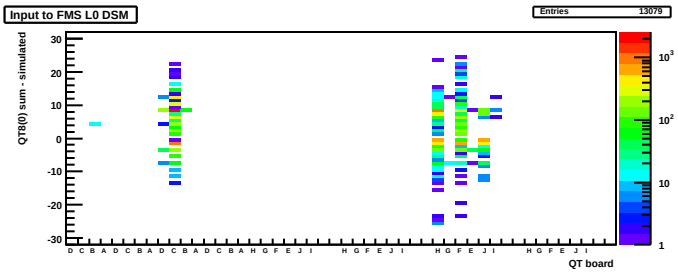

Input to QT1 crate (south-top)
Entries 3753354
ADC
channel

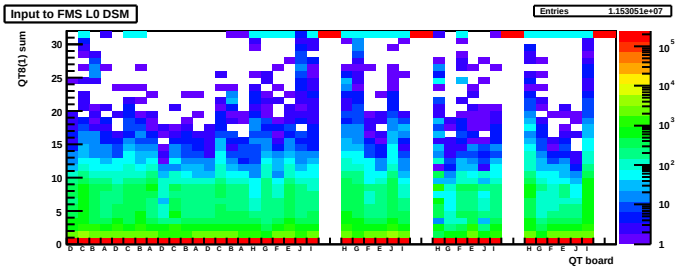

Input to QT3 crate (north-top)
Entries 2318344
ADC
channel

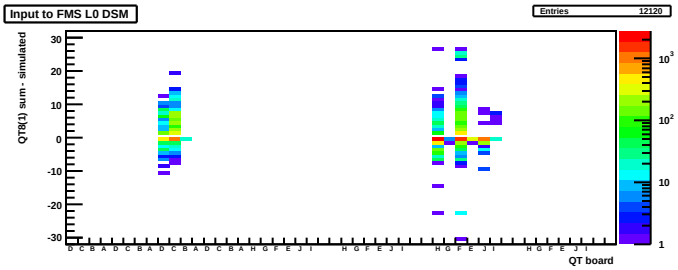

Input to QT2 crate (south-bottom)
Entries 2791192
ADC
channel

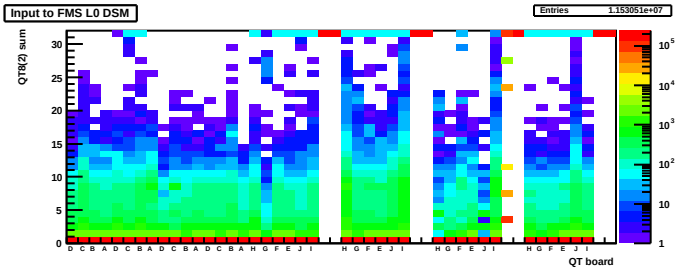

Input to QT4 crate (north-bottom)
Entries 3500788
ADC
channel

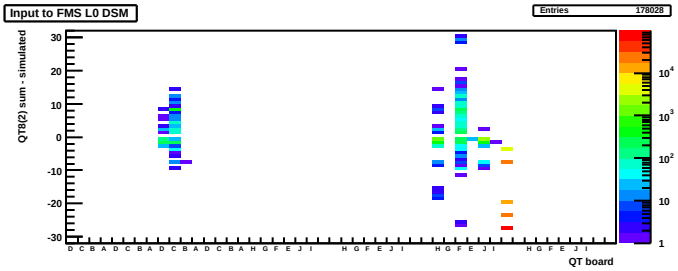

Input to FMS L0 DSM
Entries 1.153051e+07
QT8(0) sum
QT board

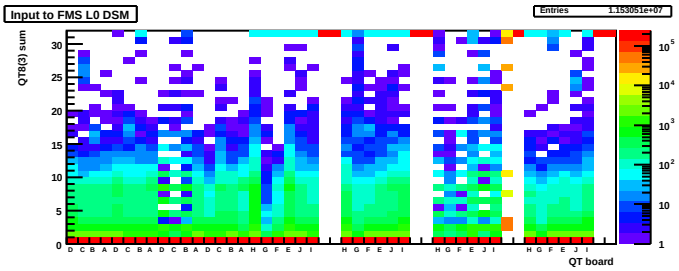

Input to FMS L0 DSM
Entries 13079
QT8(0) sum - simulated
QT board

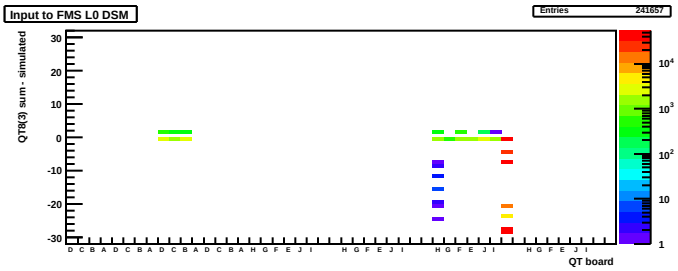

Input to FMS L0 DSM
Entries 1.153051e+07
QT8(1) sum
QT board

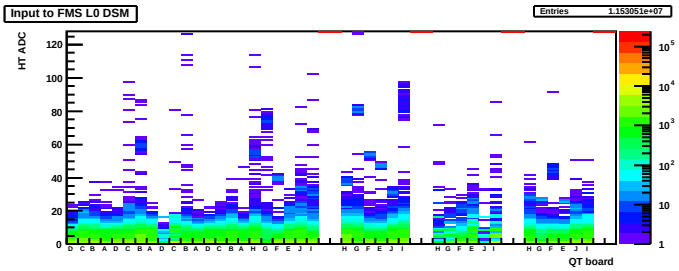

Input to FMS L0 DSM
Entries 12120
QT8(1) sum - simulated
QT board

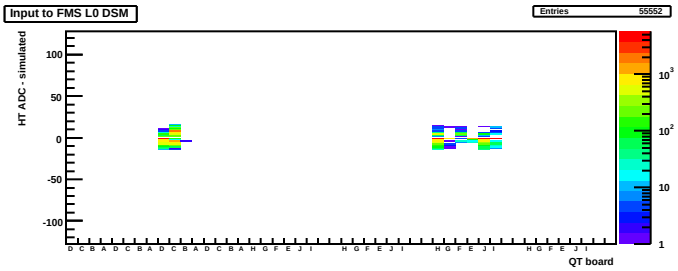

Input to FMS L0 DSM
Entries 1.153051e+07
QT8(2) sum
QT board

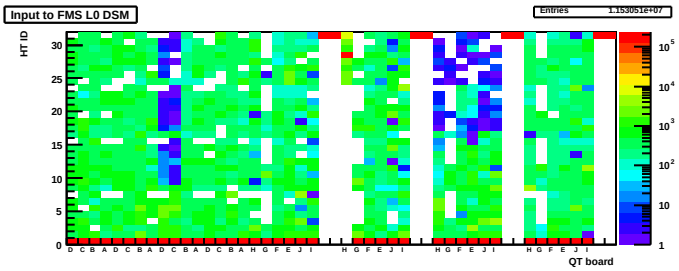

Input to FMS L0 DSM
Entries 178028
QT8(2) sum - simulated
QT board

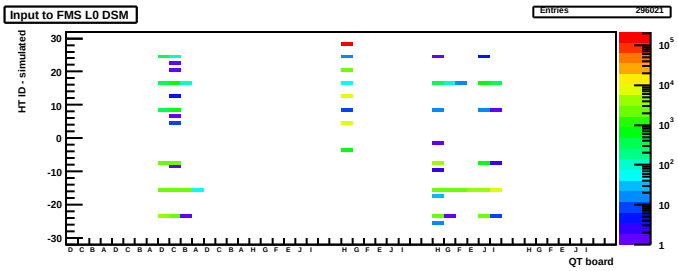

Input to FMS L0 DSM
Entries 1.153051e+07
QT8(3) sum
QT board

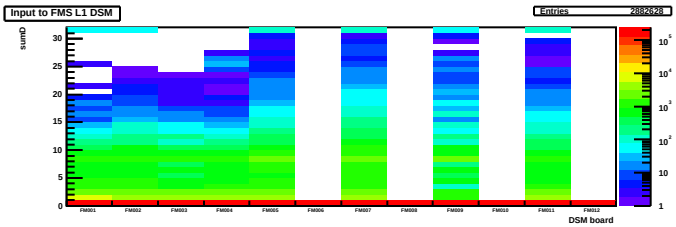

Input to FMS L0 DSM
Entries 241657
QT8(3) sum - simulated
QT board

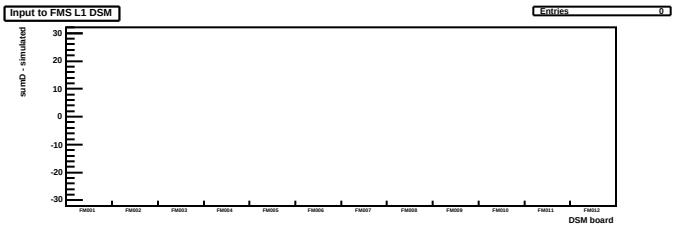

Input to FMS L0 DSM
Entries 1.153051e+07
HT ADC
QT board

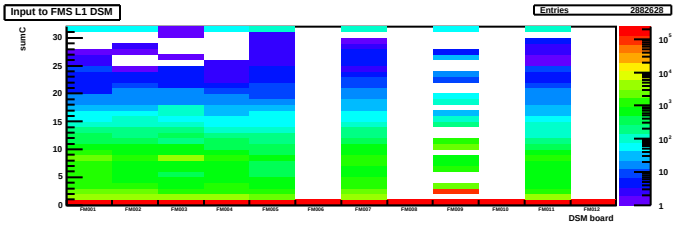

Input to FMS L0 DSM
Entries 55552
HT ADC - simulated
QT board

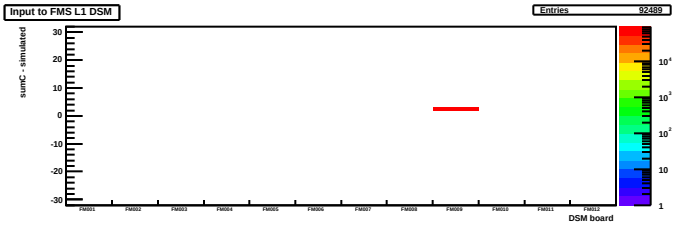

Input to FMS L0 DSM
Entries 1.153051e+07
HT ID
QT board

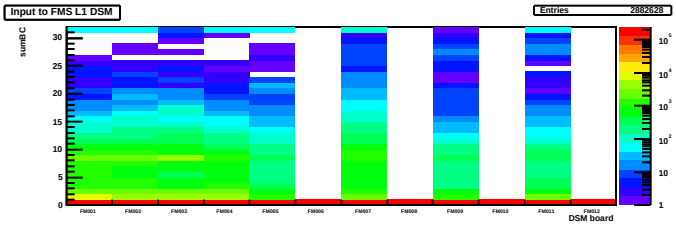

Input to FMS L0 DSM
Entries 296021
HT ID - simulated
QT board

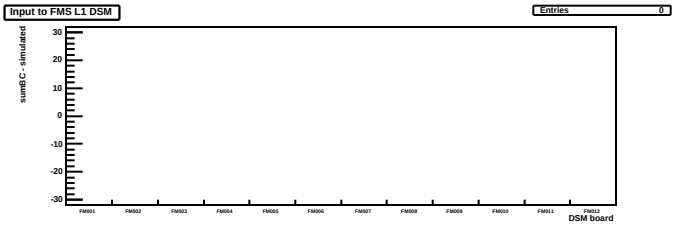

Input to FMS L1 DSM
Entries 2882628
sumD
DSM board

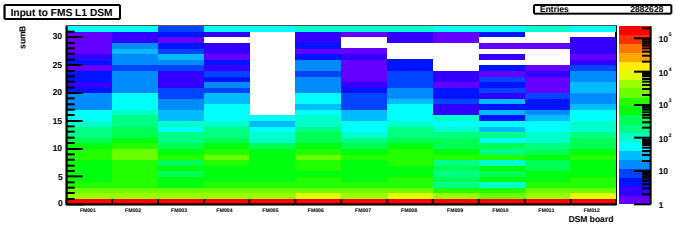

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

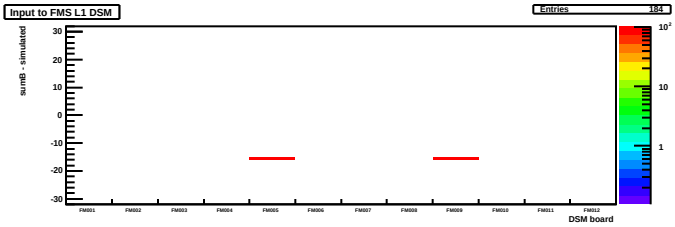

Input to FMS L1 DSM
Entries 2882628
sumC
DSM board

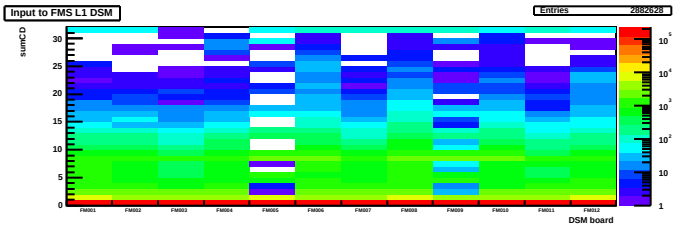

Input to FMS L1 DSM
Entries 92489
sumC - simulated
DSM board

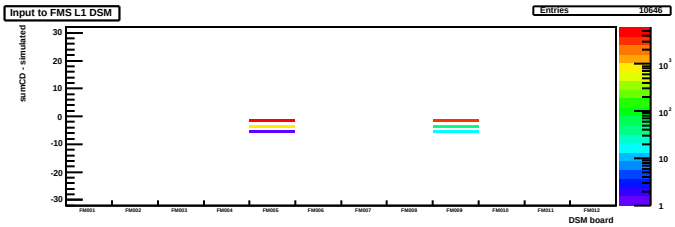

Input to FMS L1 DSM
Entries 2882628
sumBC
DSM board

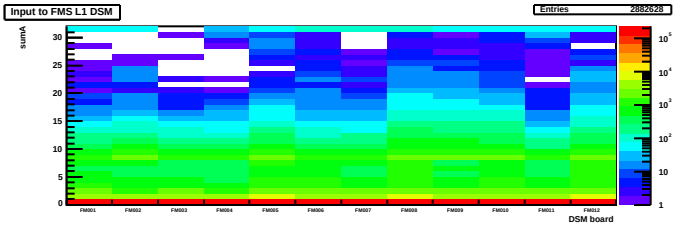

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

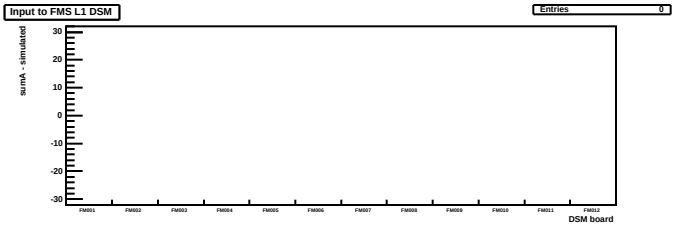

Input to FMS L1 DSM
Entries 2882628
sumB
DSM board

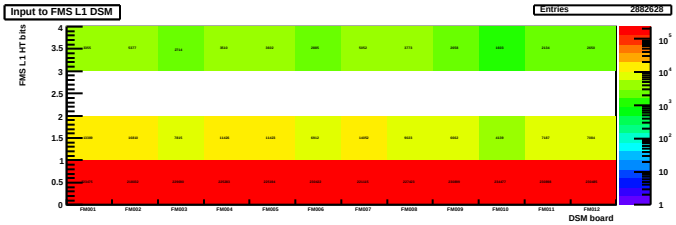

Input to FMS L1 DSM
Entries 184
sumB - simulated
DSM board

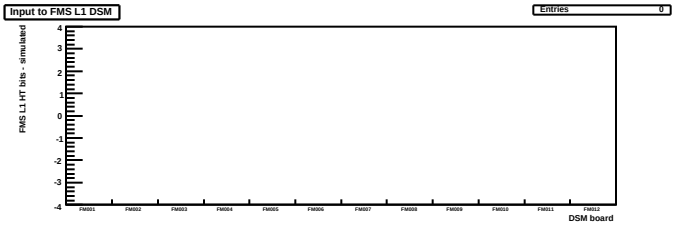

Input to FMS L1 DSM
Entries 2882628
sumCD
DSM board

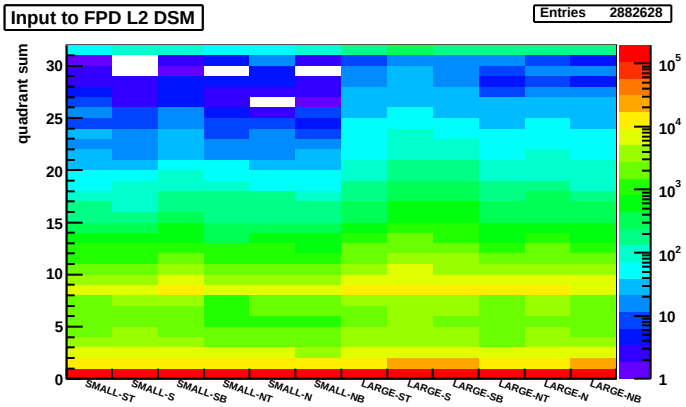

Input to FMS L1 DSM
Entries 10646
sumCD - simulated
DSM board

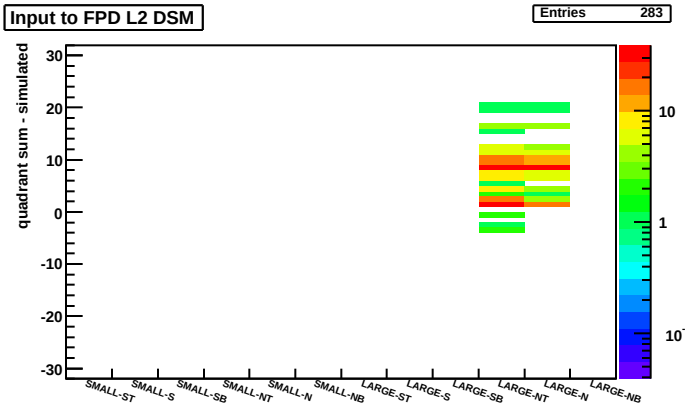

Input to FMS L1 DSM
Entries 2882628
sumA
DSM board

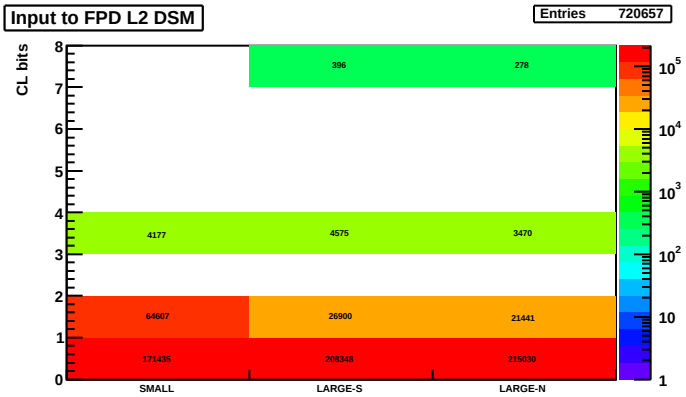

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

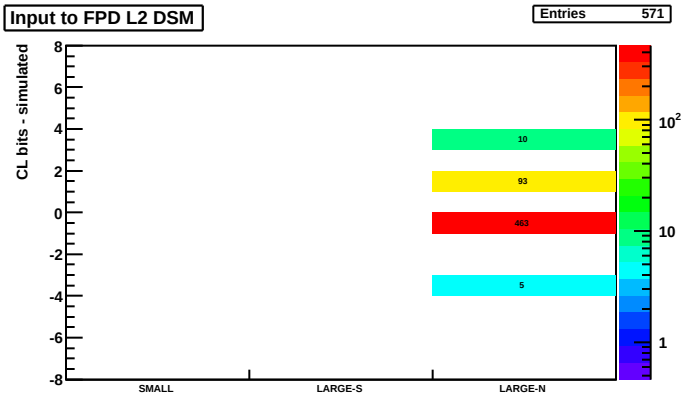

Input to FMS L1 DSM
Entries 2882628
FMS L1 HT bits
DSM board

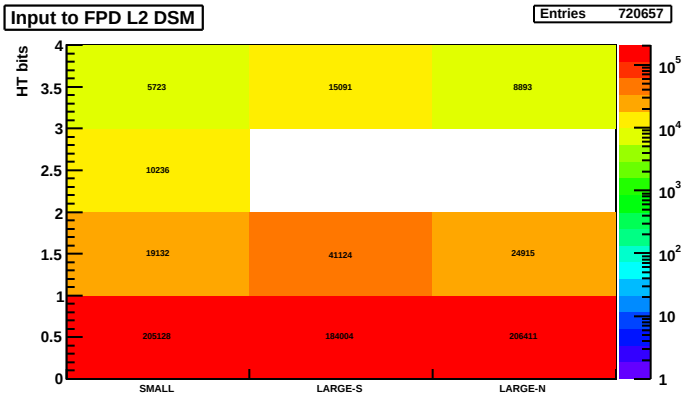

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

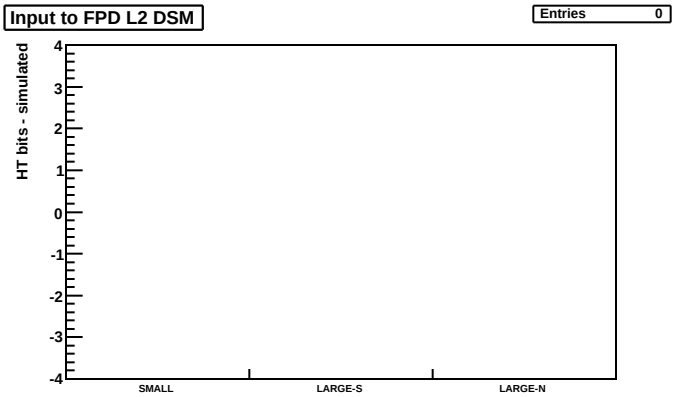

Input to FPD L2 DSM
Entries 2882628
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

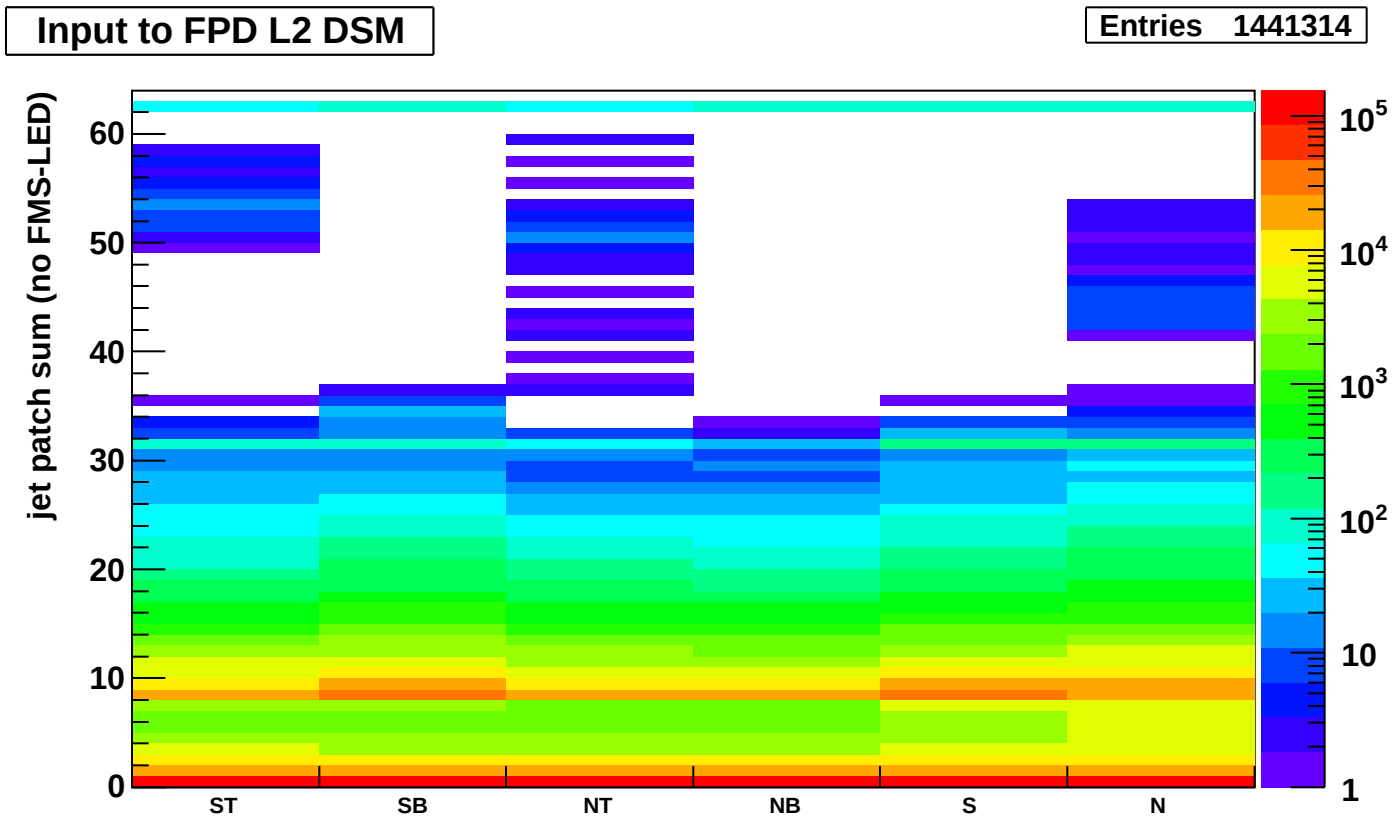

Input to FPD L2 DSM
Entries 283
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

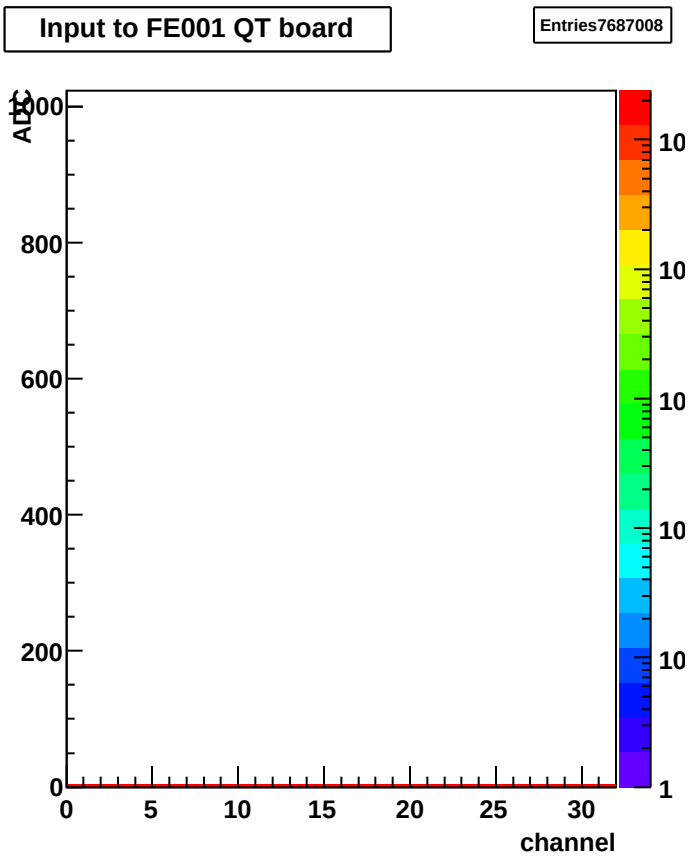

Input to FPD L2 DSM
Entries 720657
CL bits
396
278
4177
4575
3470
64607
26900
21441
171435
208348
215030
SMALL
LARGE-S
LARGE-N

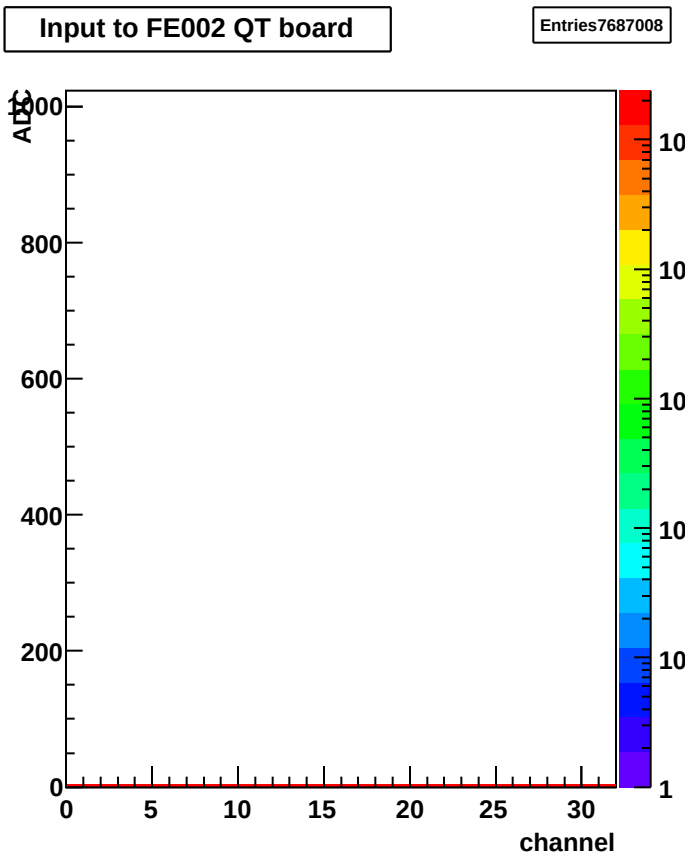

Input to FPD L2 DSM
Entries 571
CL bits - simulated
10
93
463
5
SMALL
LARGE-S
LARGE-N

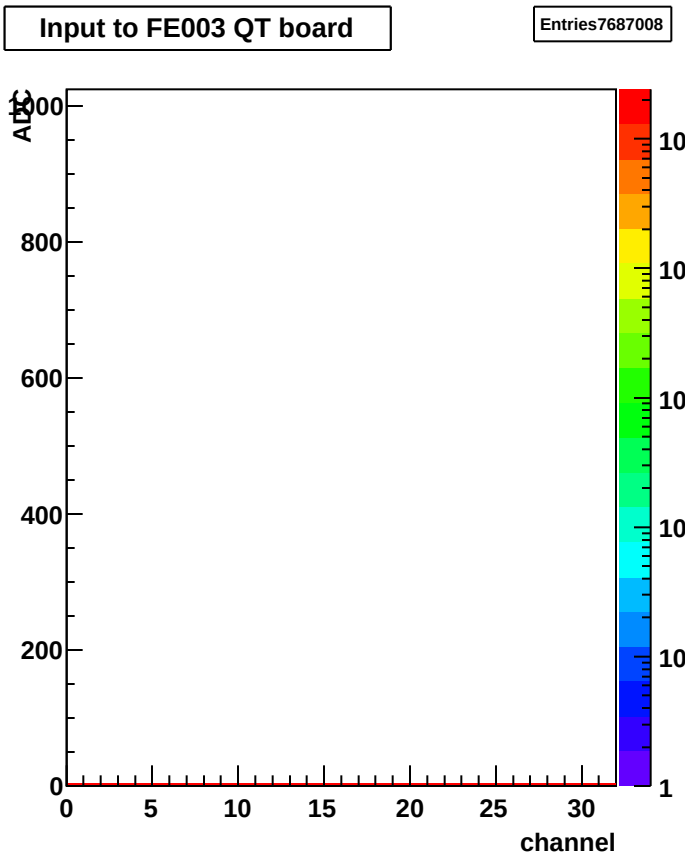

Input to FPD L2 DSM
Entries 720657
HT bits
5723
15091
8893
10236
19132
41124
24915
205128
184004
206411
SMALL
LARGE-S
LARGE-N

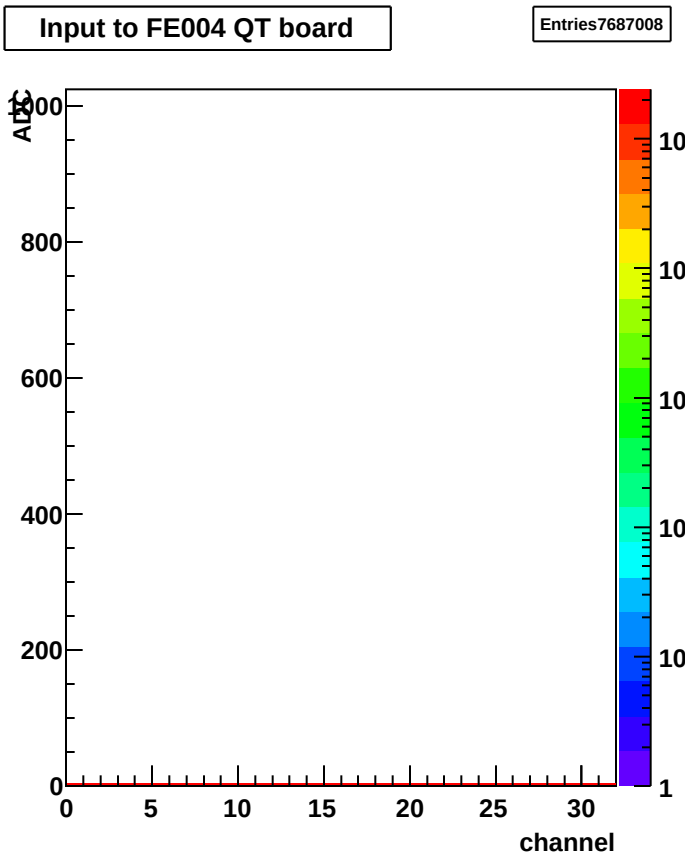

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

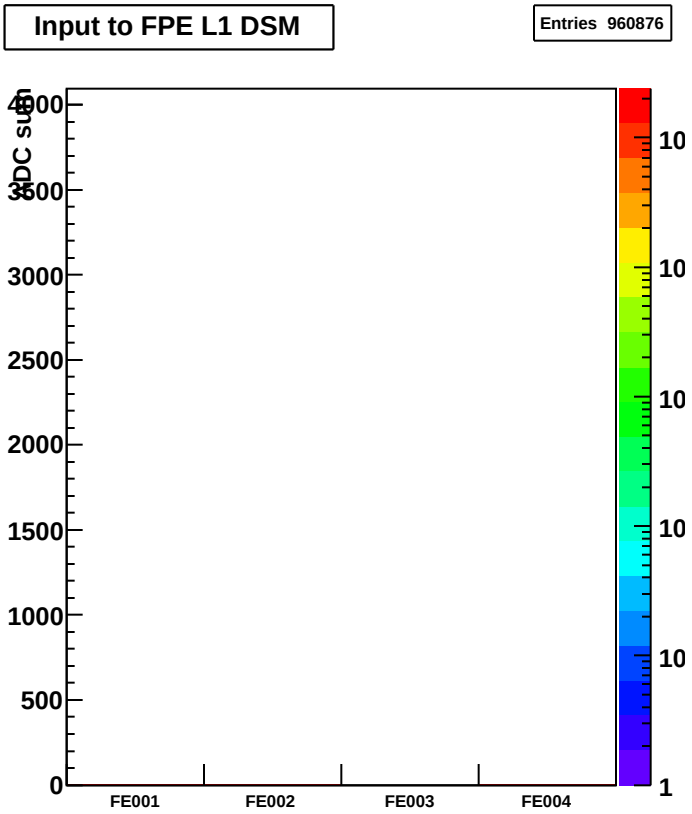

Input to FPD L2 DSM
Entries 1441314
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

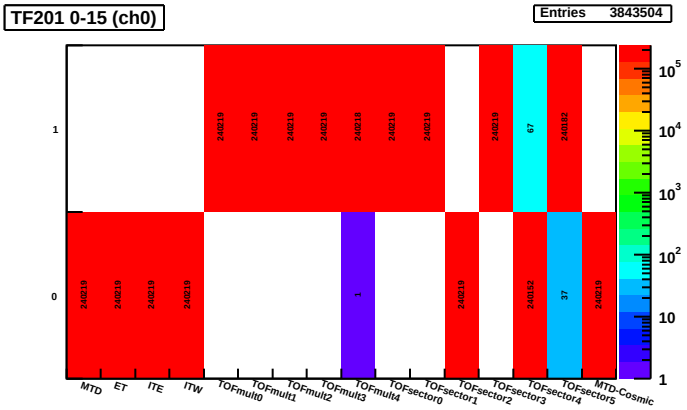

Input to FE001 QT board
Entries7687008
ADC
channel

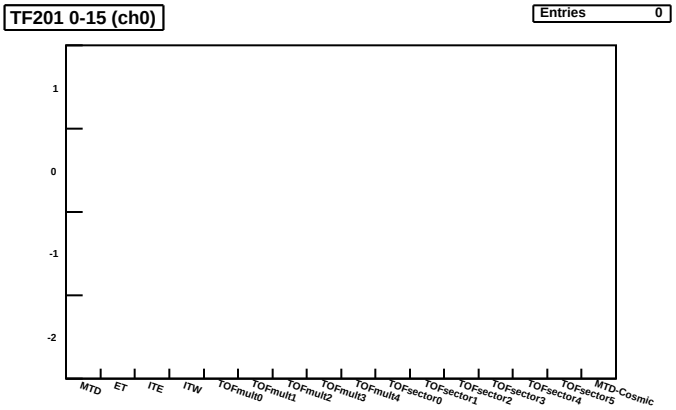

Input to FE002 QT board
Entries7687008
ADC
channel

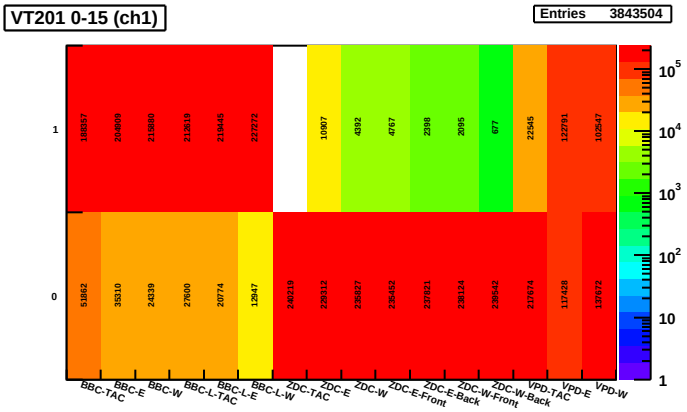

Input to FE003 QT board
Entries7687008
ADC
channel

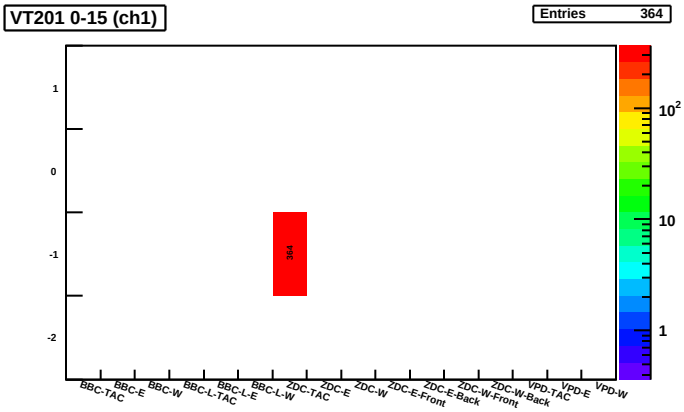

Input to FE004 QT board
Entries7687008
ADC
channel

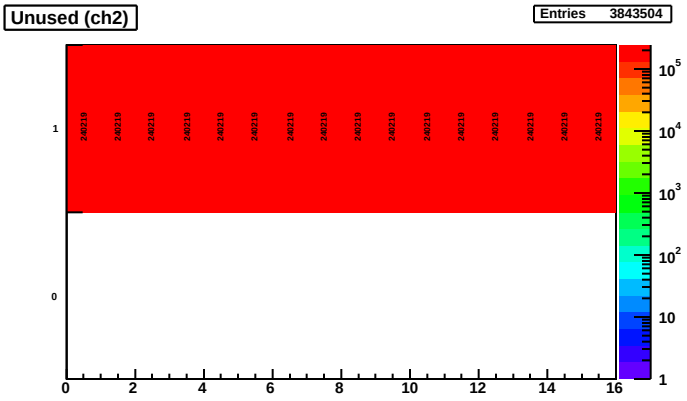

Input to FPE L1 DSM
Entries 960876
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 3843504
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 3843504
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 364
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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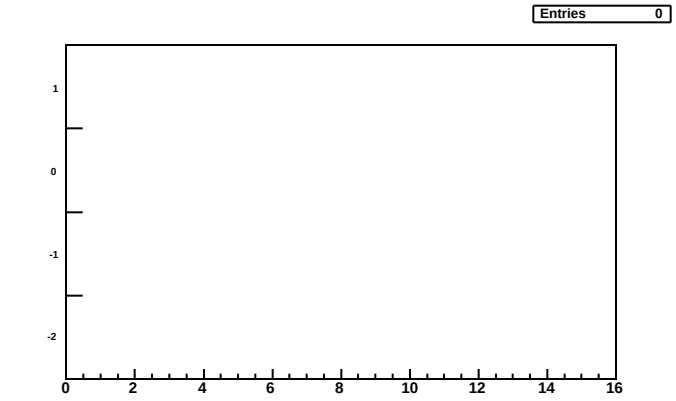
Entries 3843504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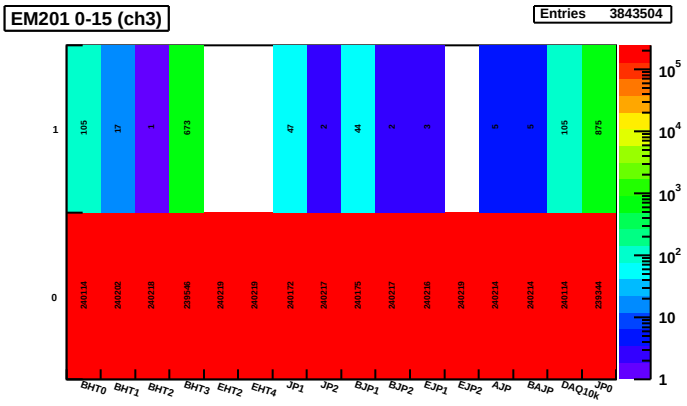
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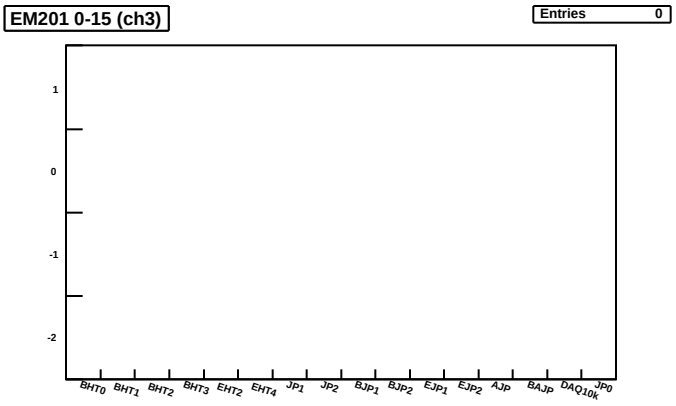
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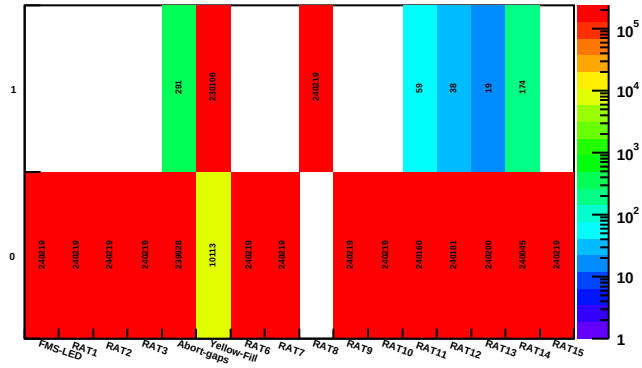
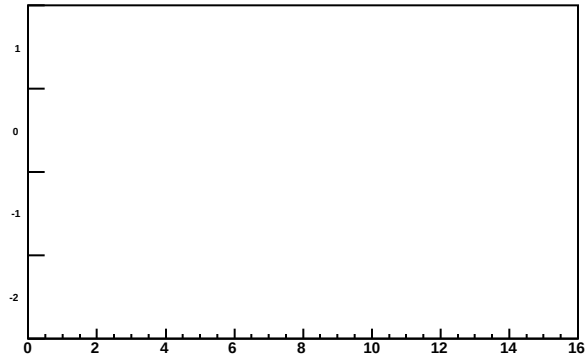
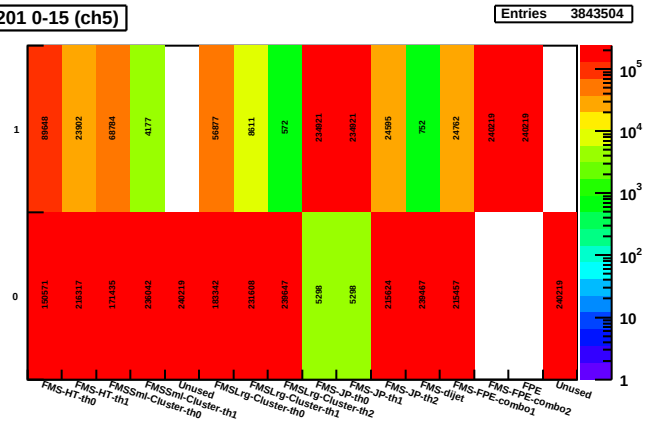
RAT board (ch4)





FP201 0-15 (ch5)



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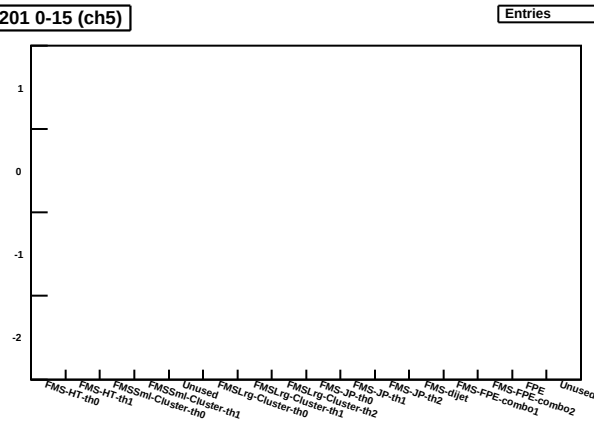
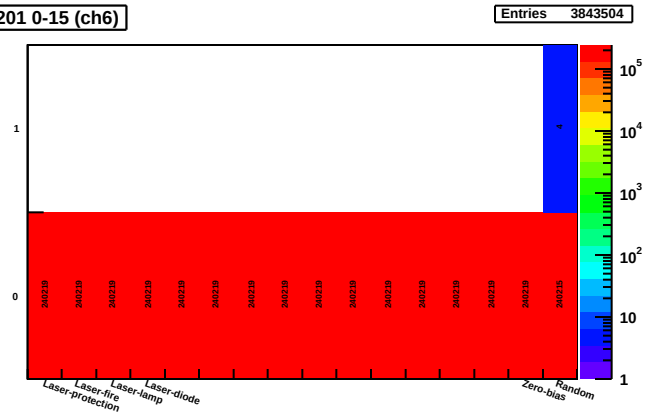
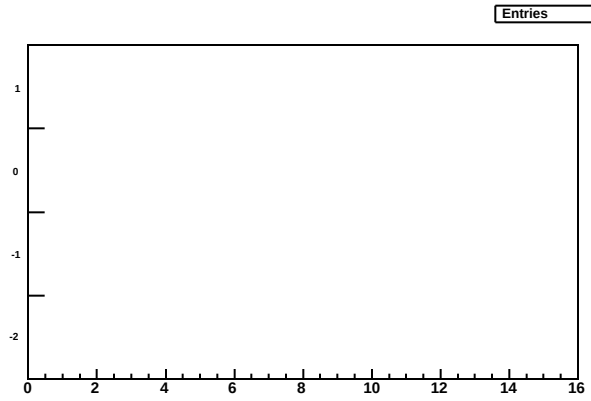
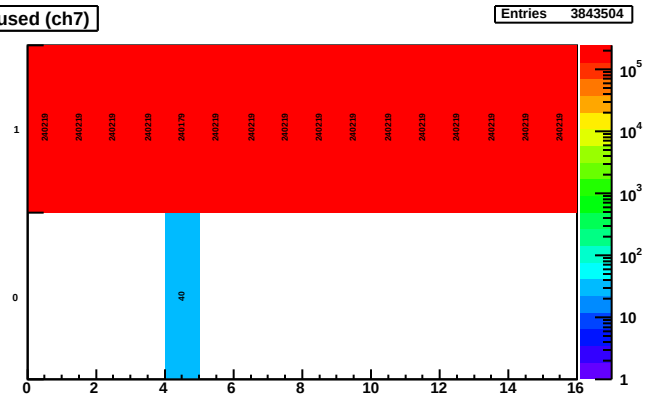
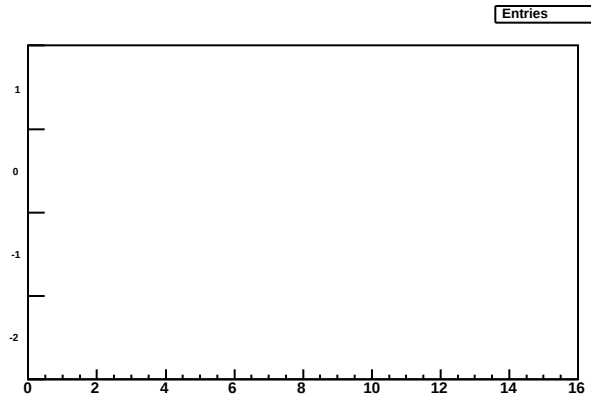


ST201 0-15 (ch6)





Unused (ch7)