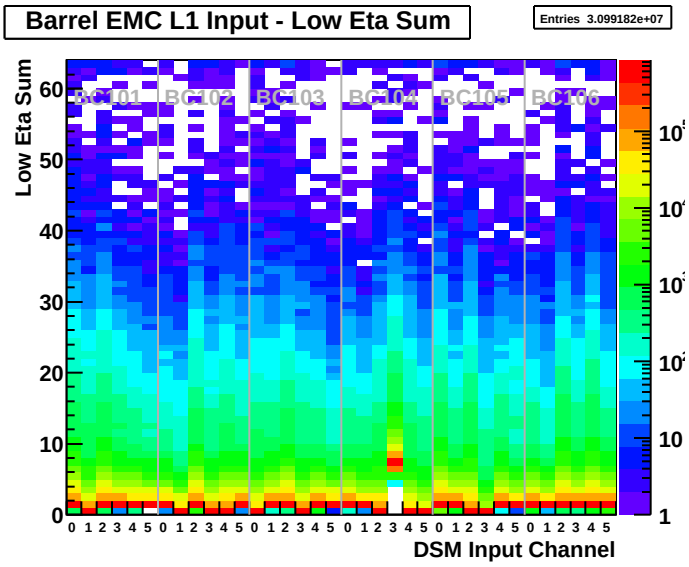
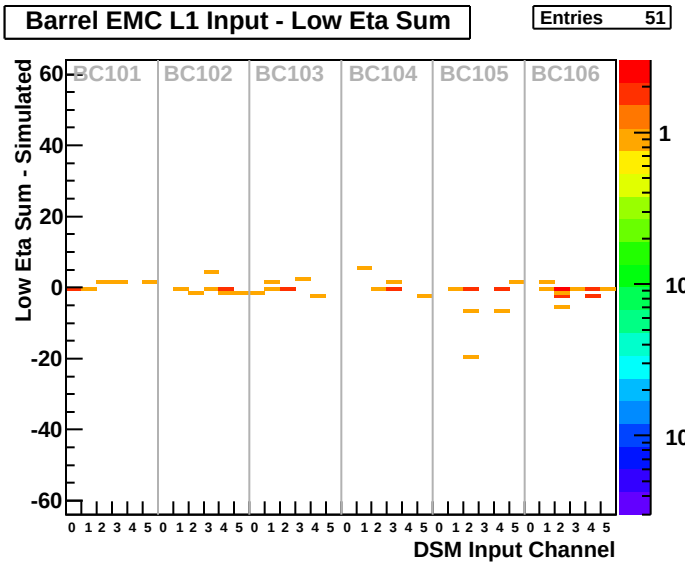
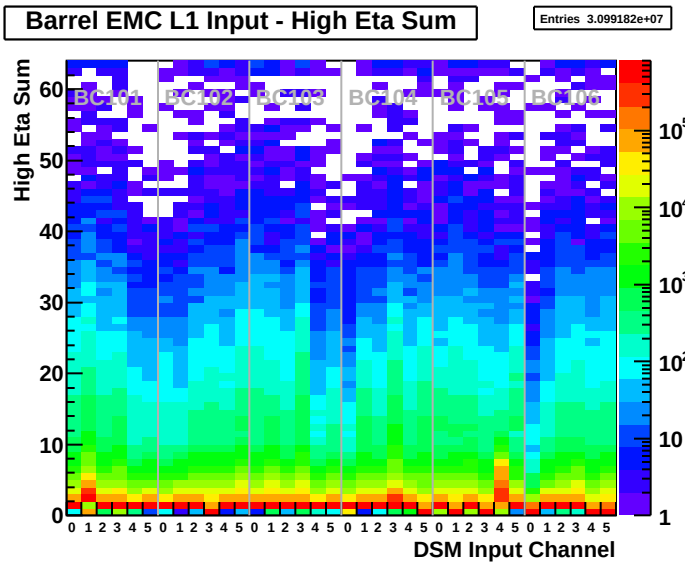
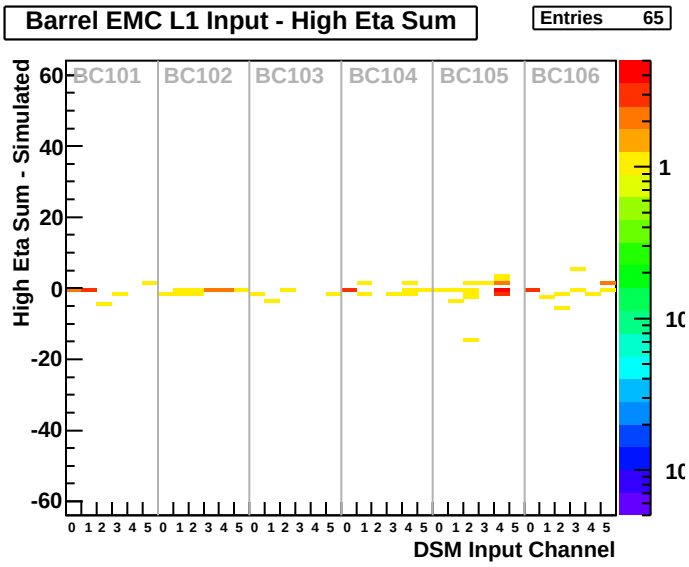
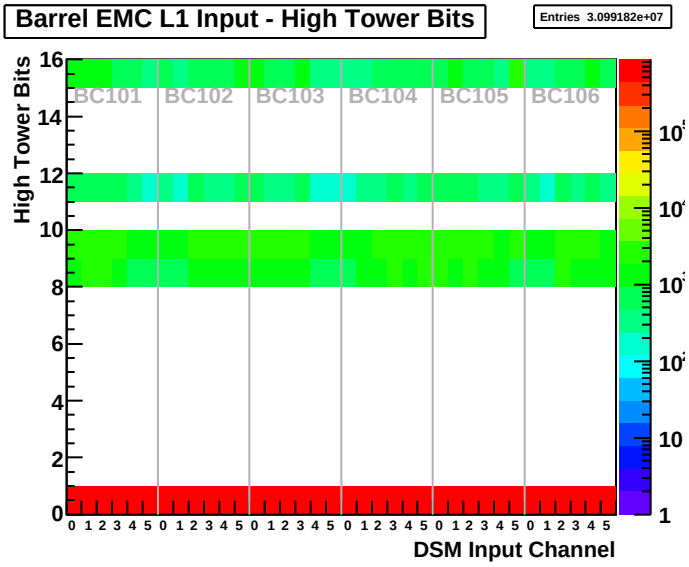
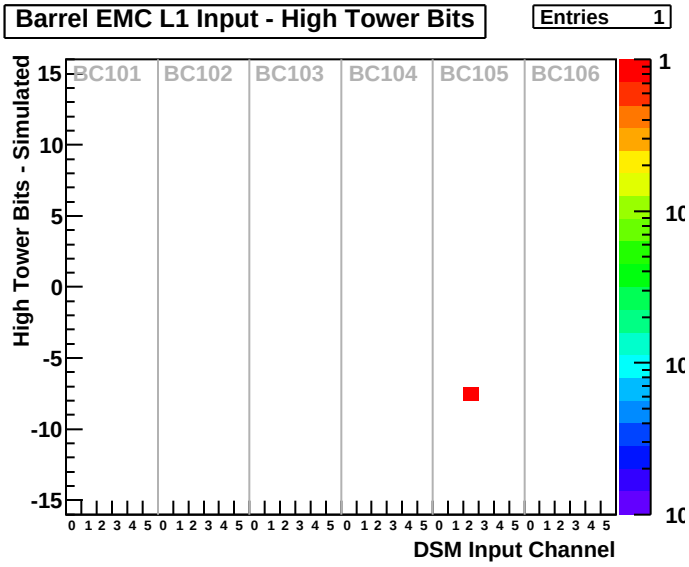

Barrel EMC L1 Input - Low Eta Sum
Entries 3.099182e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

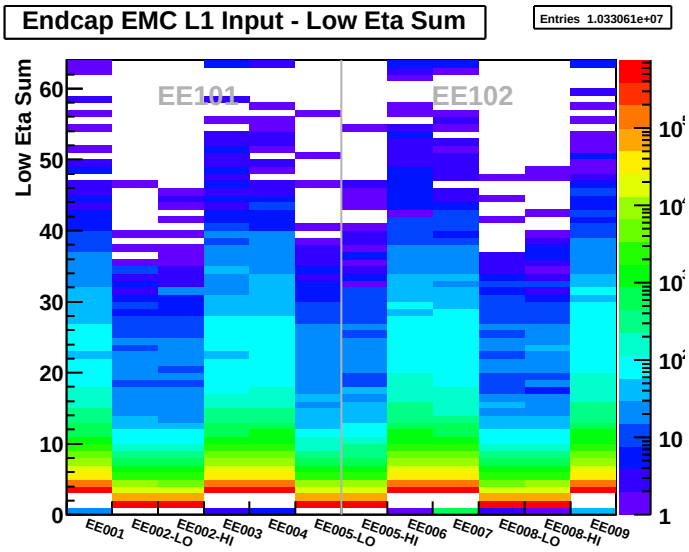

Barrel EMC L1 Input - Low Eta Sum
Entries 51
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

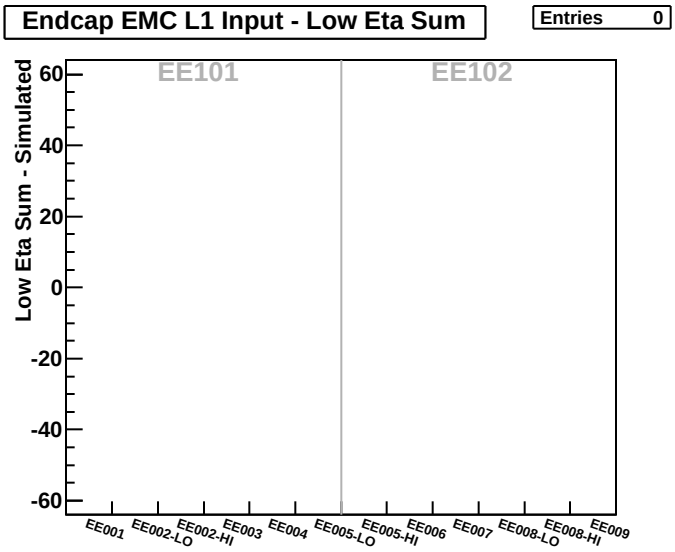

Barrel EMC L1 Input - High Eta Sum
Entries 3.099182e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

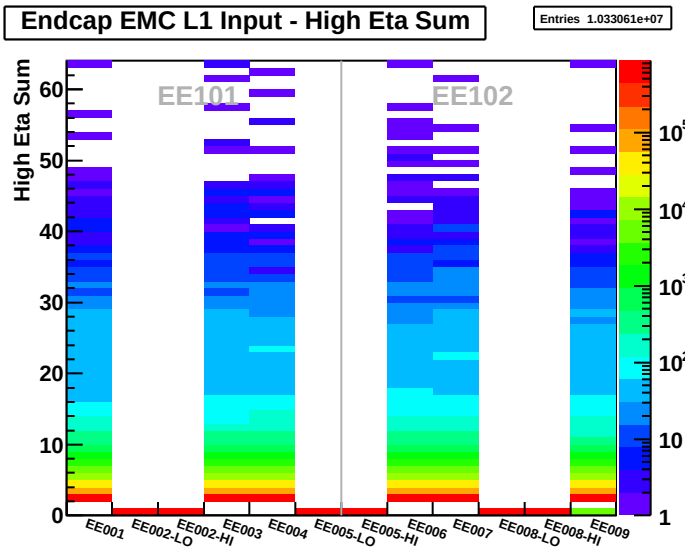

Barrel EMC L1 Input - High Eta Sum
Entries 65
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

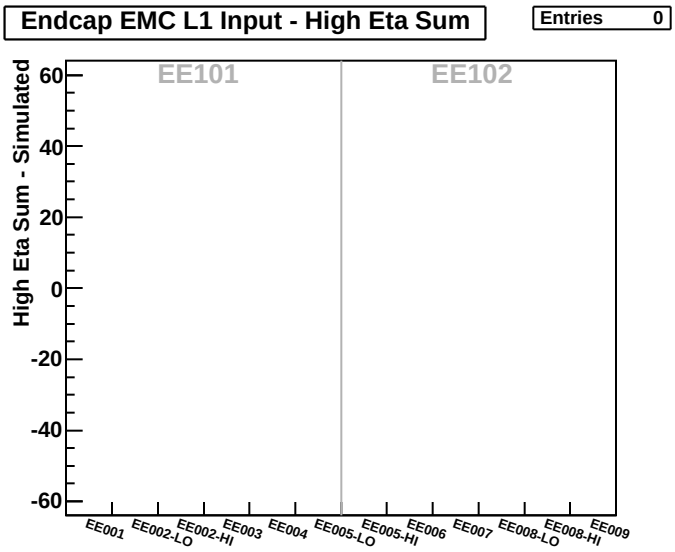

Barrel EMC L1 Input - High Tower Bits
Entries 3.099182e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

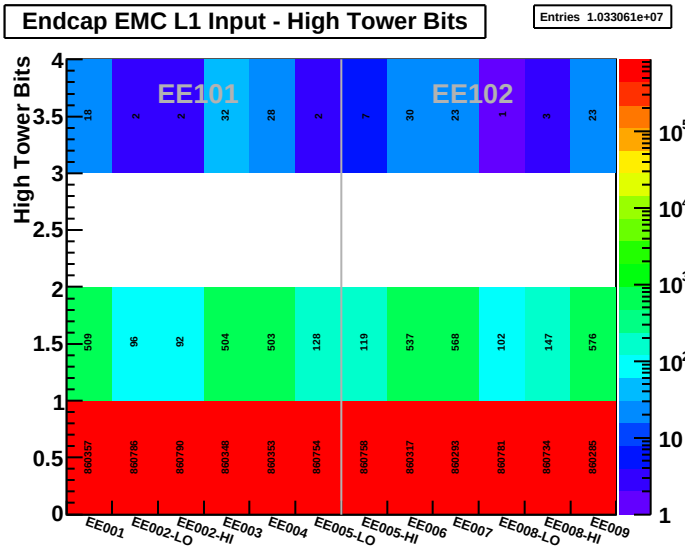

Barrel EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

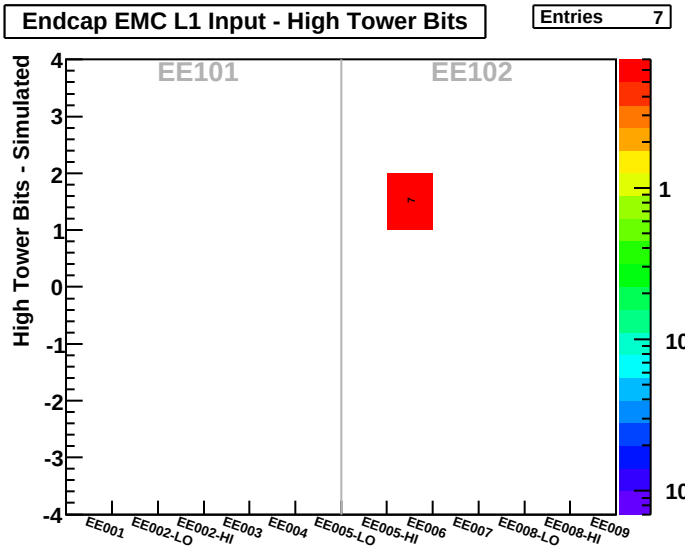

Endcap EMC L1 Input - Low Eta Sum
Entries 1.033061e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

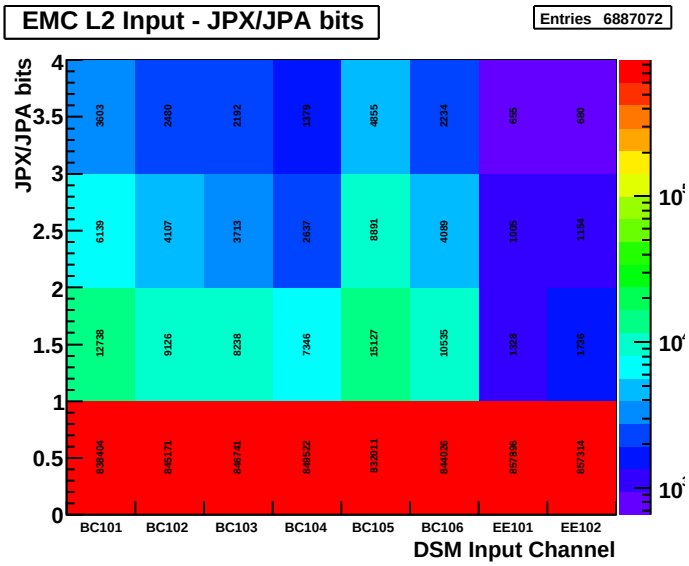

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

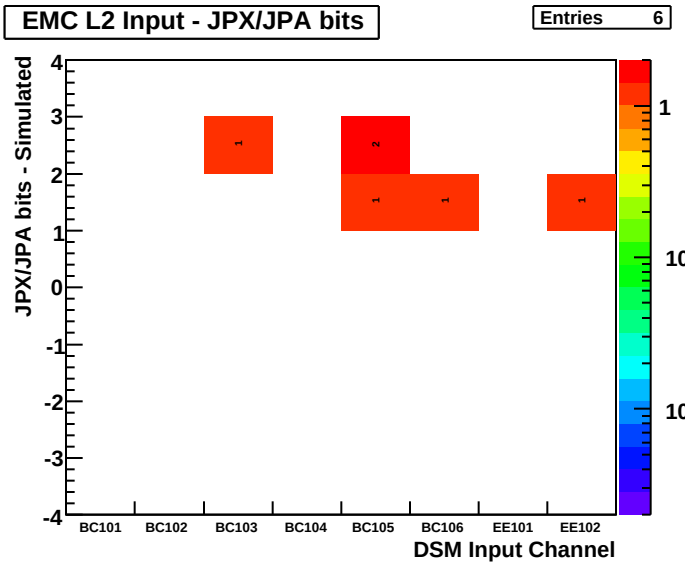

Endcap EMC L1 Input - High Eta Sum
Entries 1.033061e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

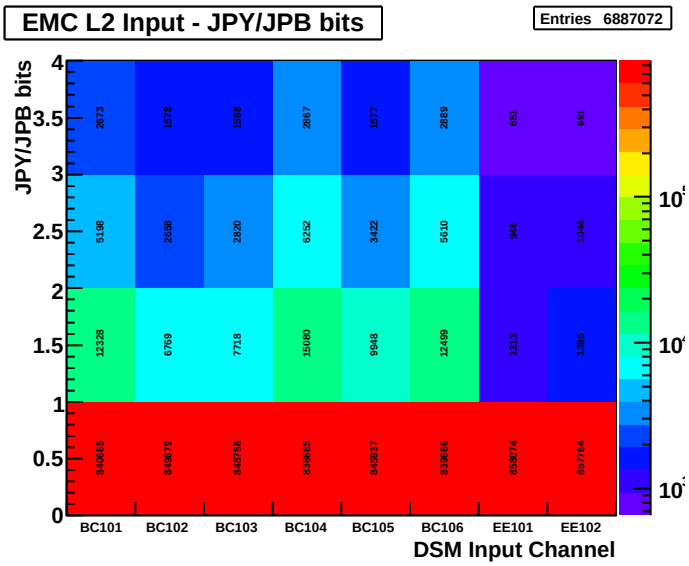

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

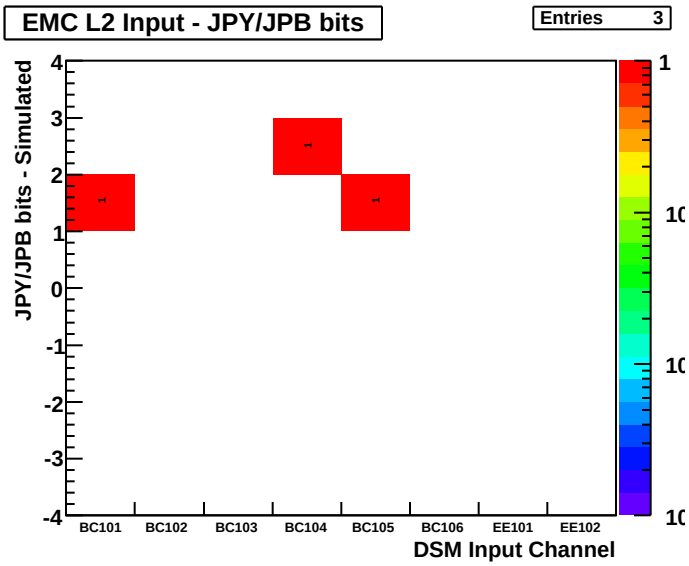

Endcap EMC L1 Input - High Tower Bits
Entries 1.033061e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

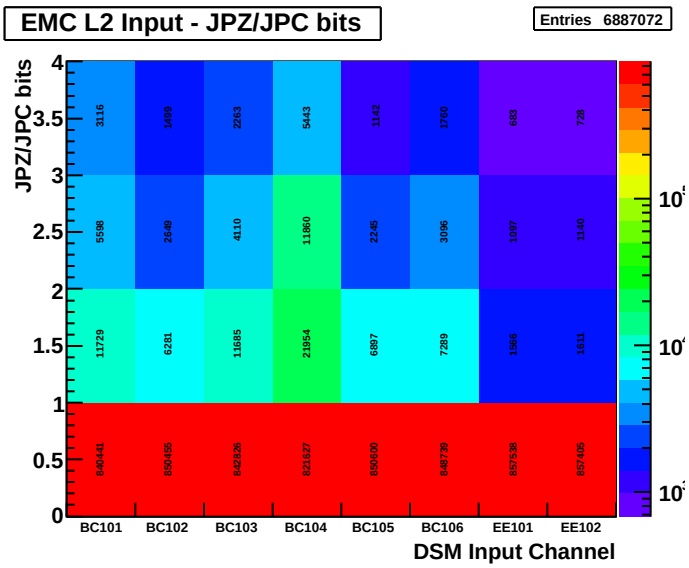

Endcap EMC L1 Input - High Tower Bits
Entries 7
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

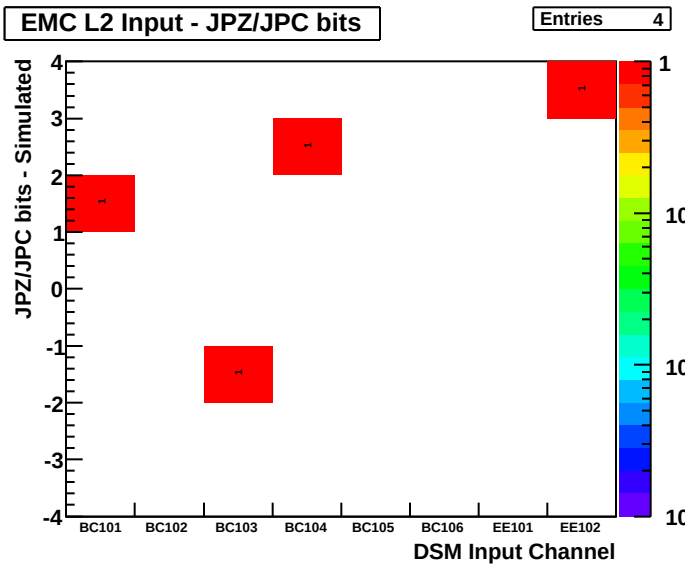

EMC L2 Input - JPX/JPA bits
Entries 6887072
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3603 2480 2192 1379 4855 2234 655 680
6139 4107 3713 2637 8891 4089 1065 1154
12738 9126 8238 7346 15127 10535 1328 1736
838404 845171 846741 840522 832011 844026 857896 857314

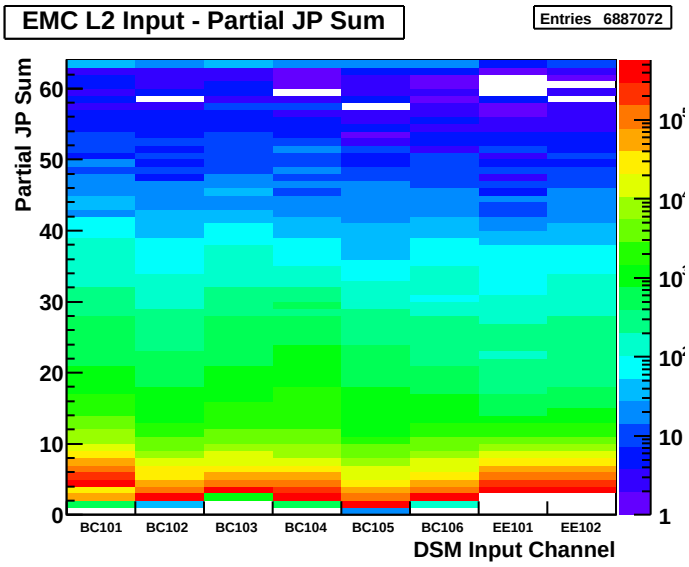

EMC L2 Input - JPX/JPA bits
Entries 6
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

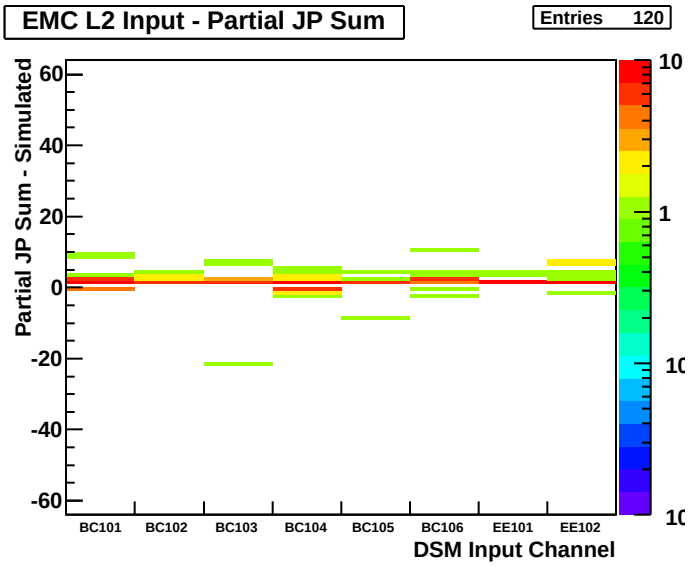

EMC L2 Input - JPY/JPB bits
Entries 6887072
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2673 1578 1588 2867 1577 2889 651 691
5198 2568 2820 6252 3422 5610 946 1044
12328 6769 7718 15080 9948 12499 1213 1385
840685 848379 848758 836685 845937 839886 858074 857764

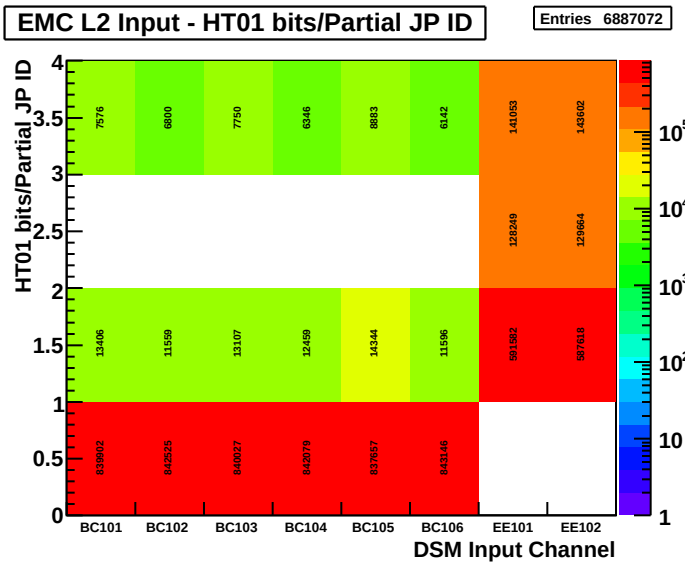

EMC L2 Input - JPY/JPB bits
Entries 3
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

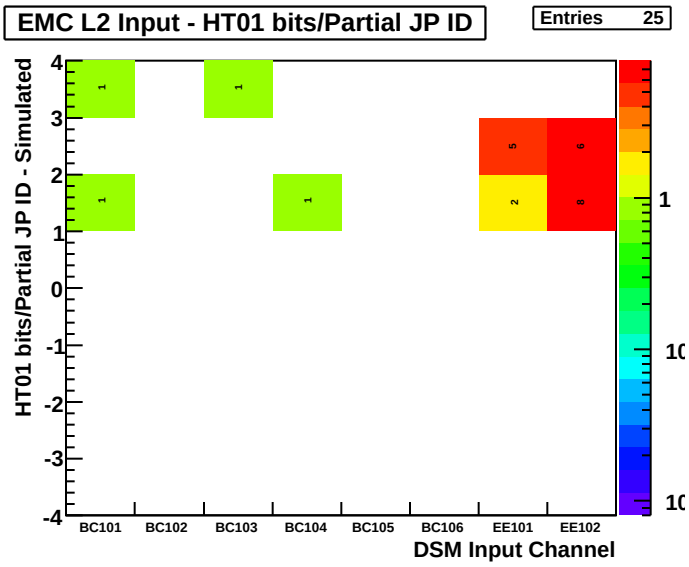

EMC L2 Input - JPZ/JPC bits
Entries 6887072
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3116 1699 2263 5443 1142 1760 633 728
5598 2649 4110 11860 2245 3096 1097 1140
11729 6281 11685 21954 6897 7289 1566 1611
840441 850455 842826 821827 850600 848739 857538 857405

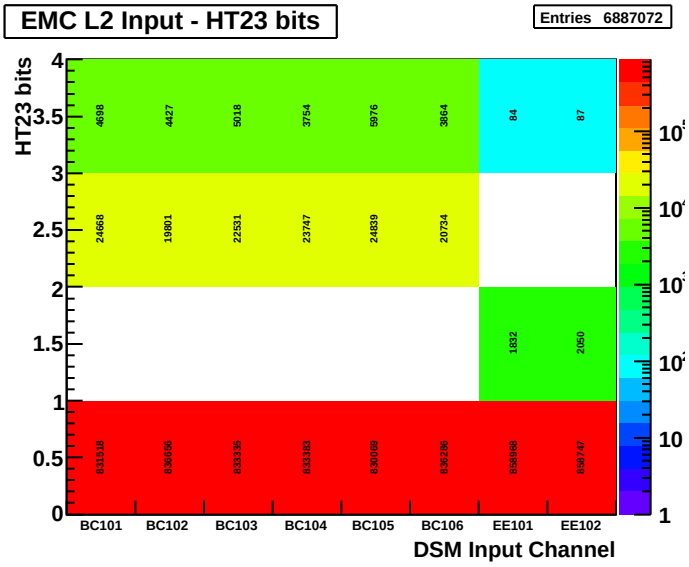

EMC L2 Input - JPZ/JPC bits
Entries 4
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

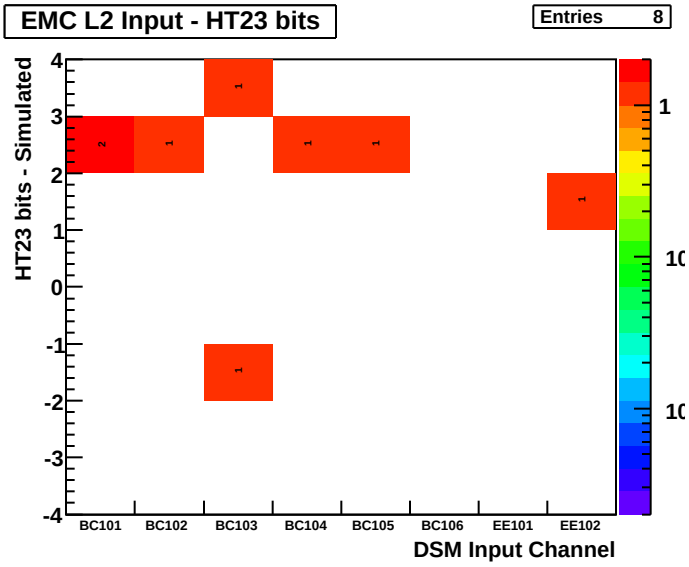

EMC L2 Input - Partial JP Sum
Entries 6887072
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

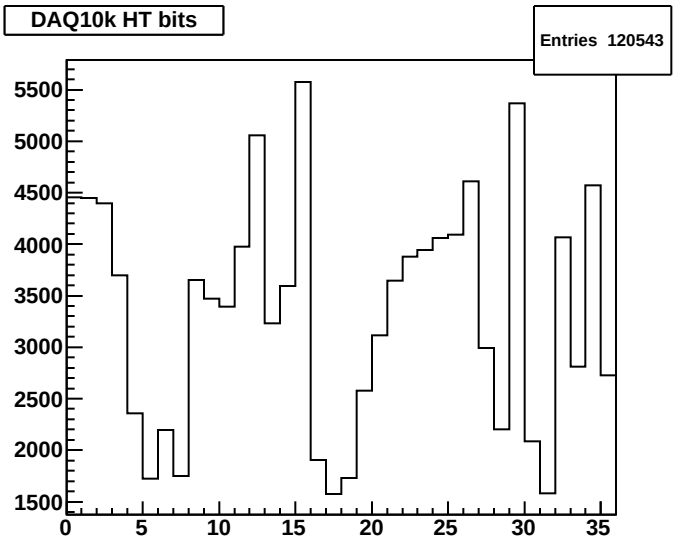

EMC L2 Input - Partial JP Sum
Entries 120
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

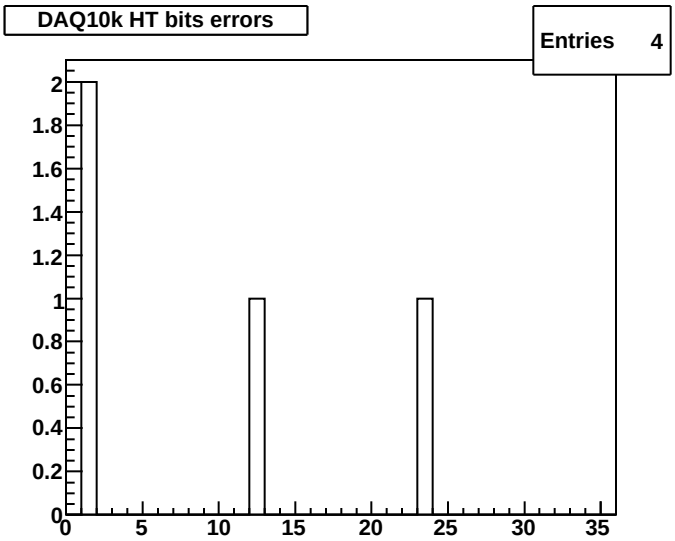

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6887072
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

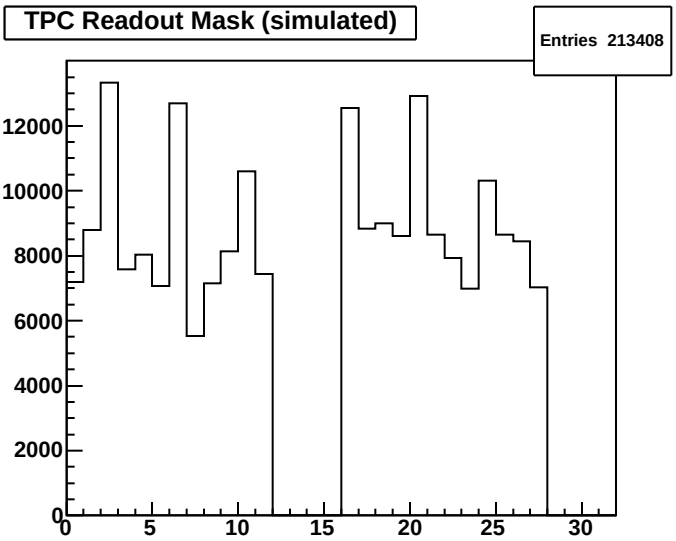

EMC L2 Input - HT01 bits/Partial JP ID
Entries 25
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

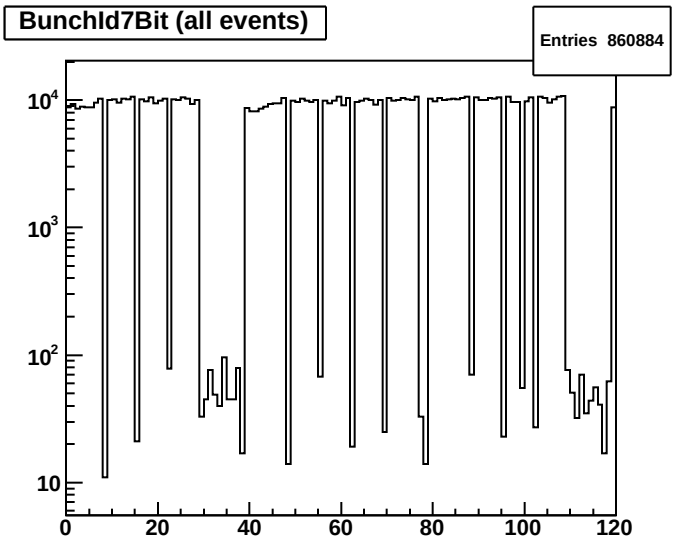

EMC L2 Input - HT23 bits
Entries 6887072
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

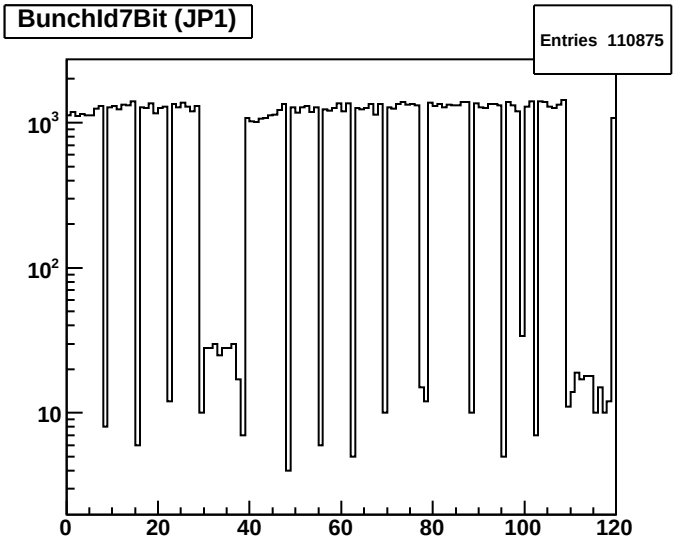

EMC L2 Input - HT23 bits
Entries 8
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

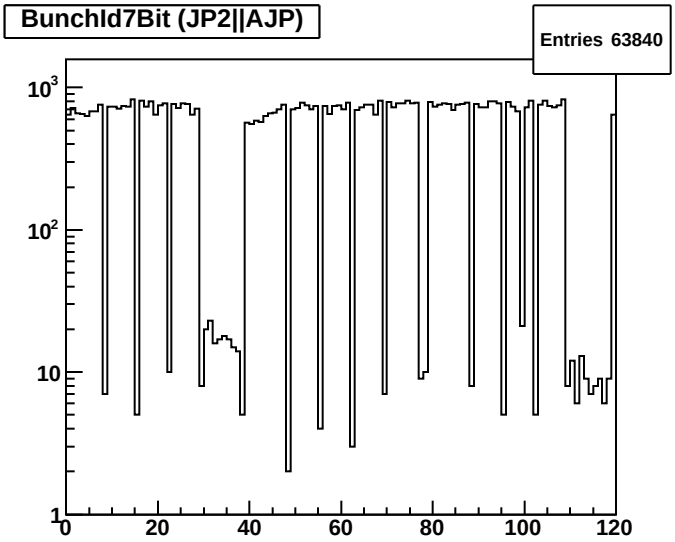

DAQ10k HT bits
Entries 120543

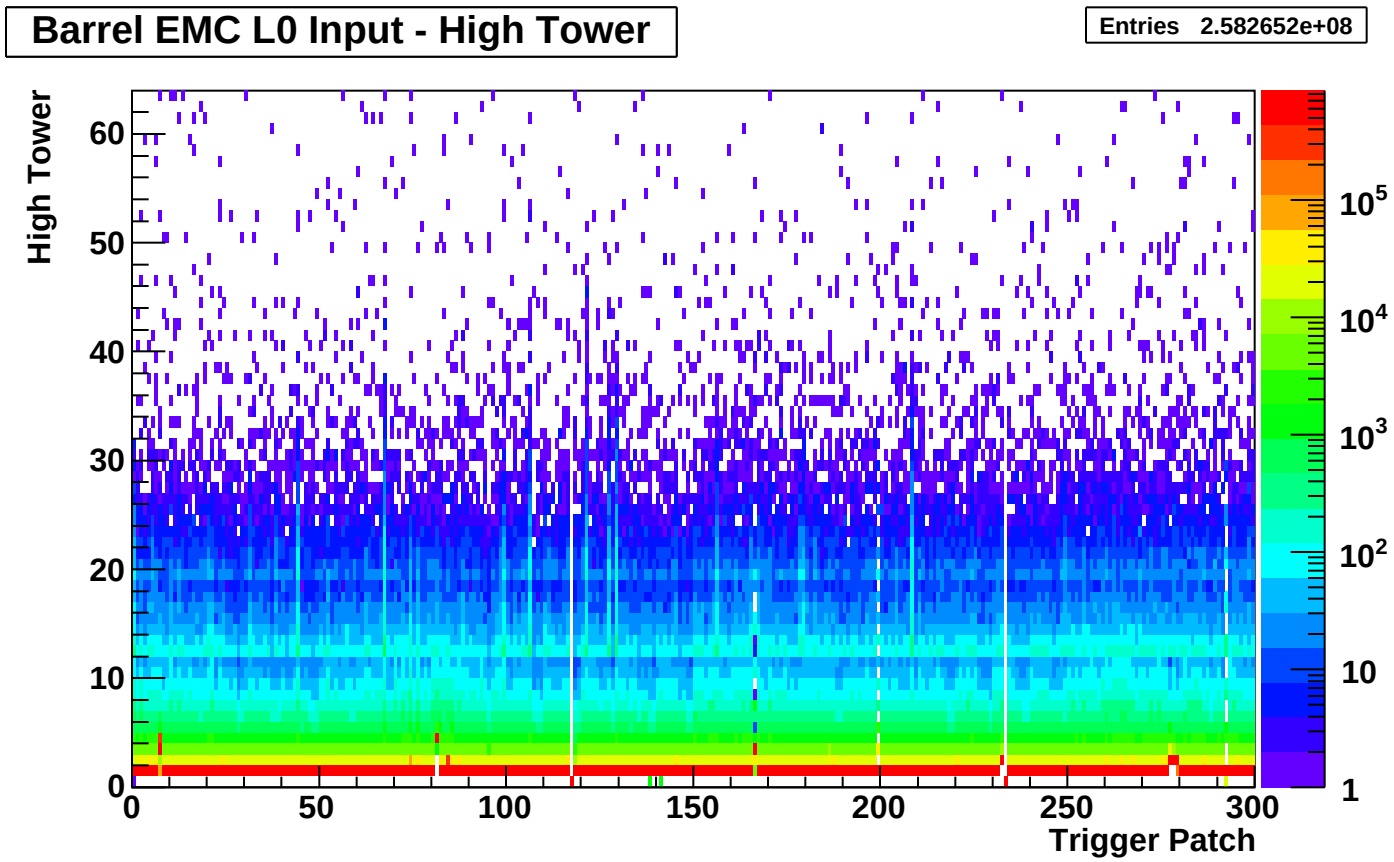

DAQ10k HT bits errors
Entries 4

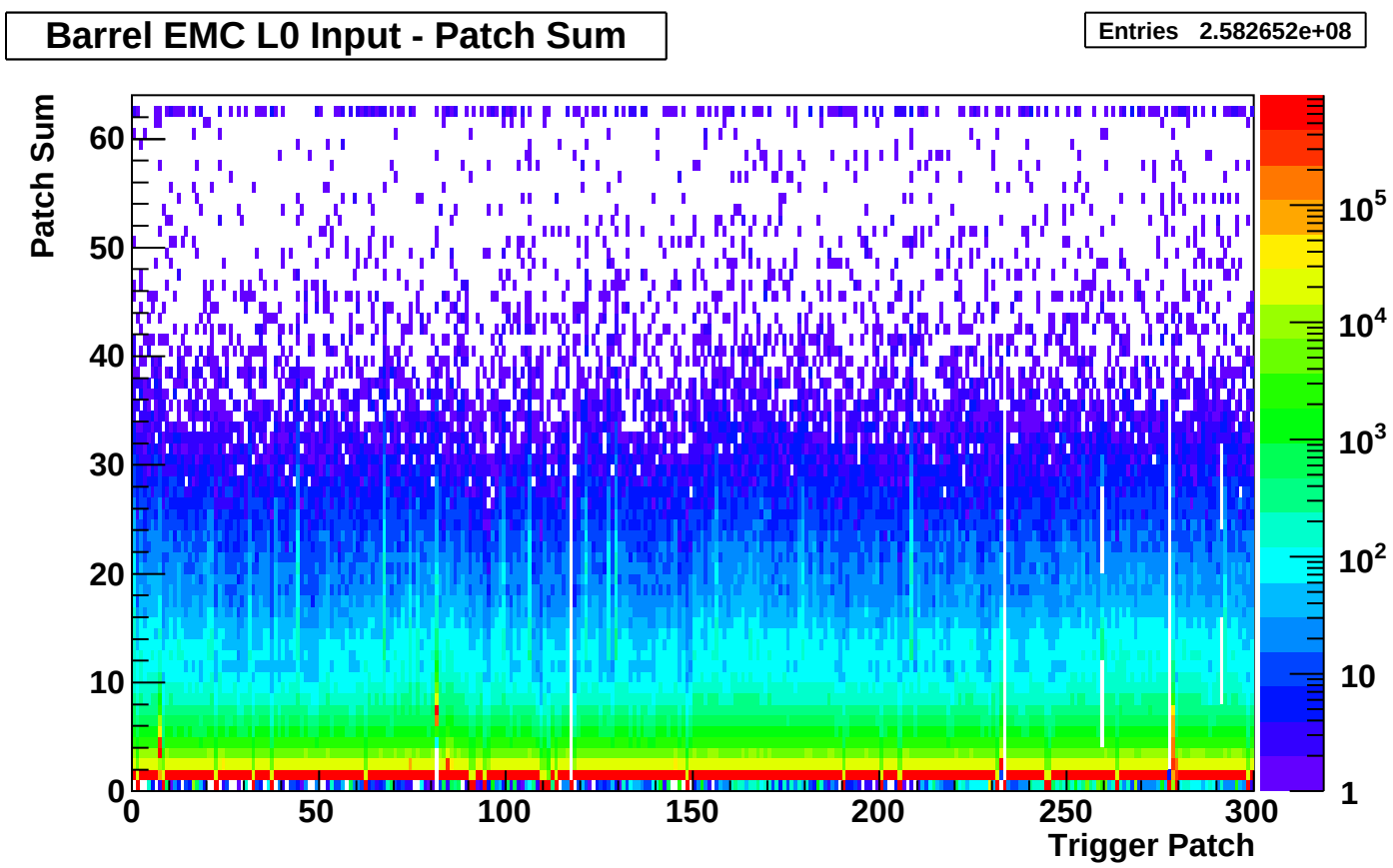

TPC Readout Mask (simulated)
Entries 213408

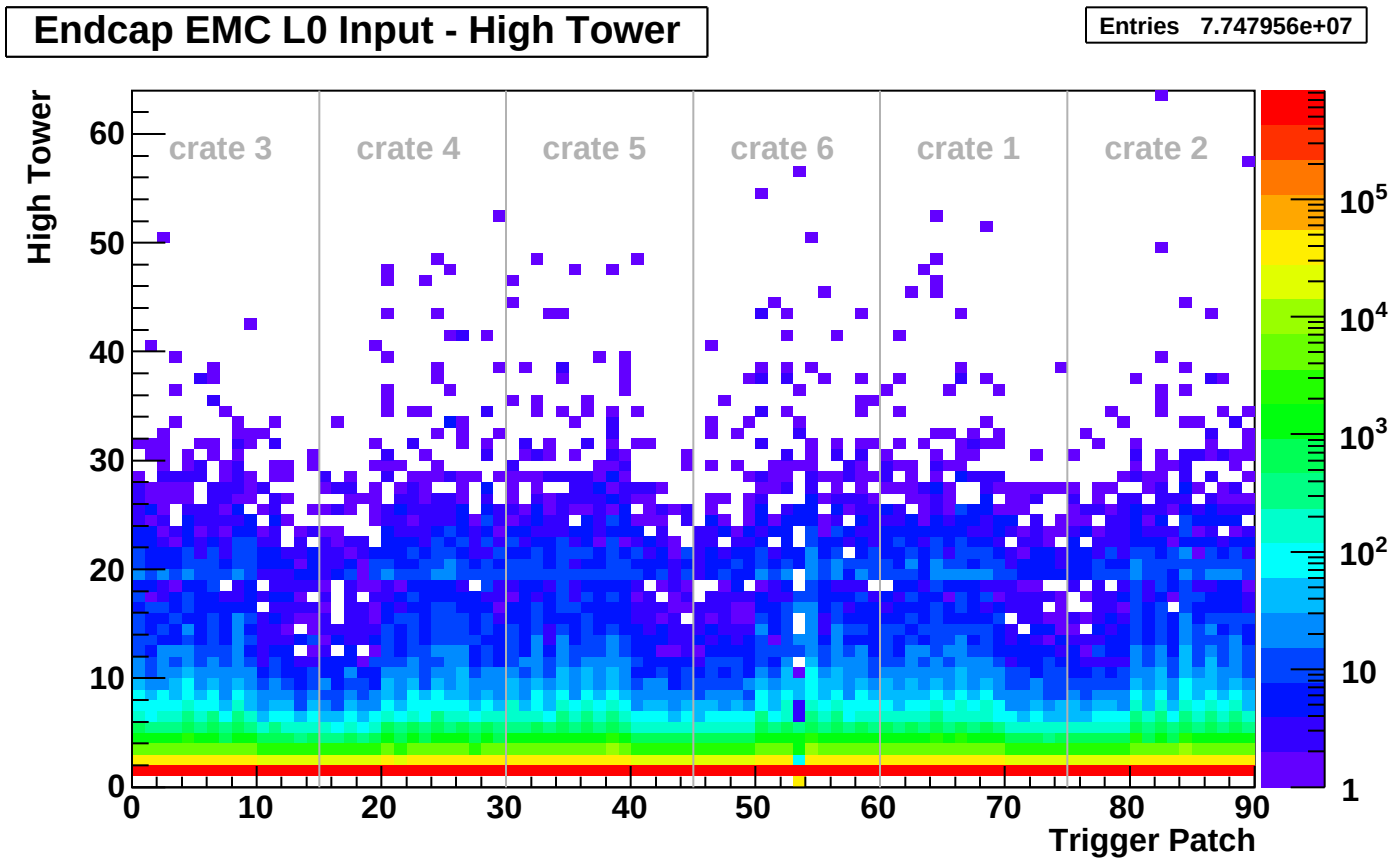

BunchId7Bit (all events)
Entries 860884

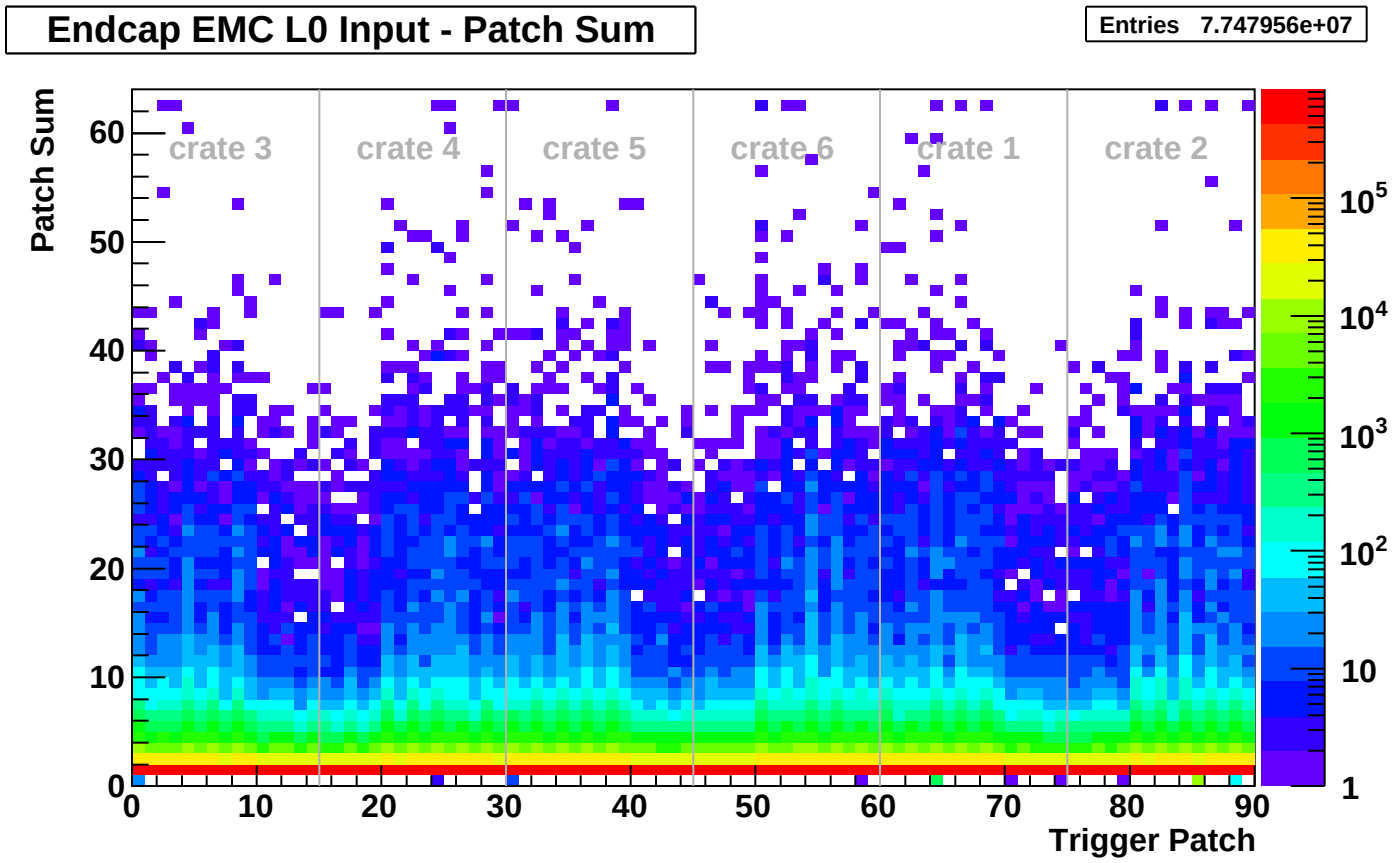

BunchId7Bit (JP1)
Entries 110875

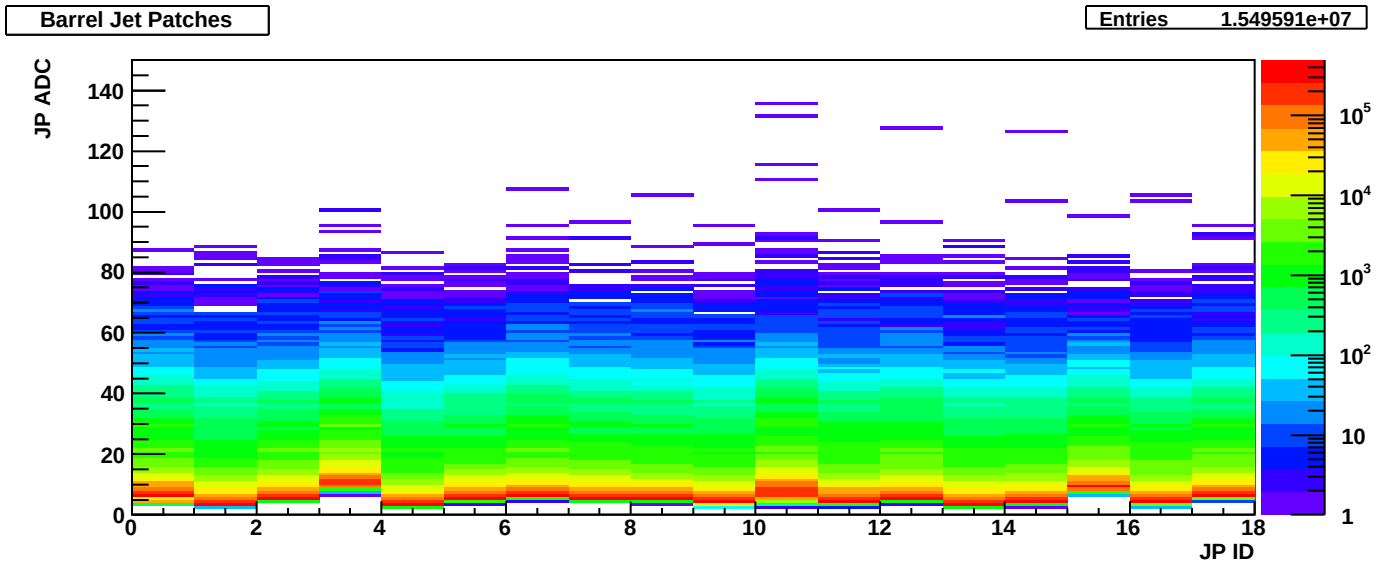

BunchId7Bit (JP2||AJP)
Entries 63840

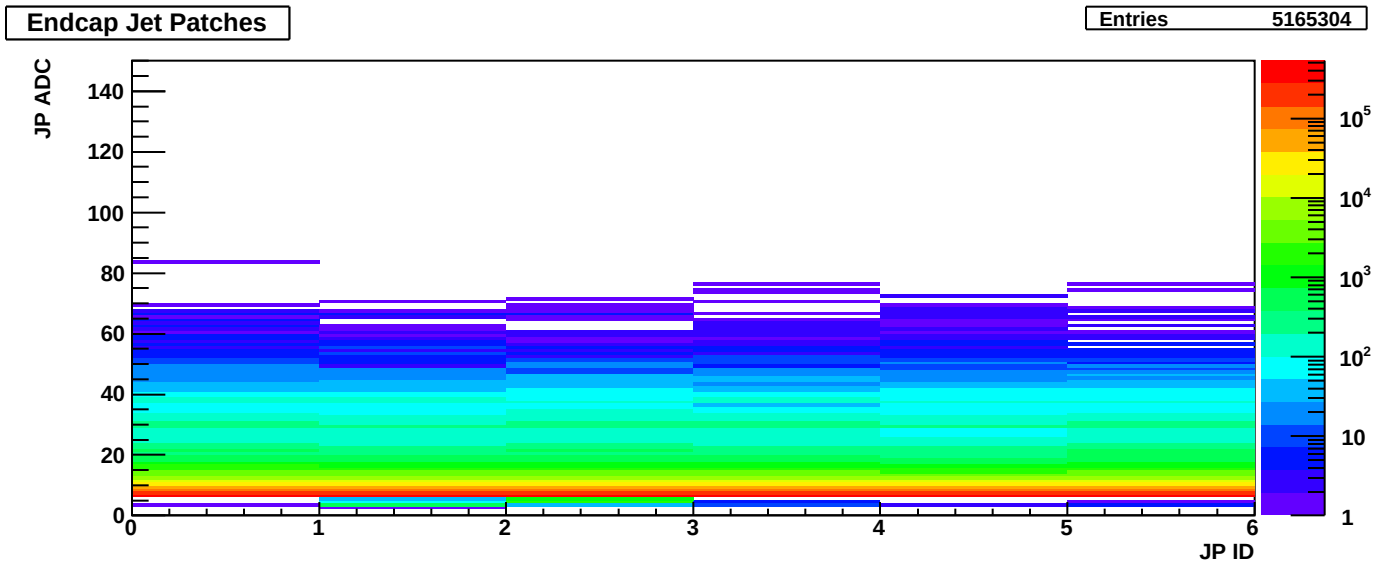

Barrel EMC L0 Input - High Tower
Entries 2.582652e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

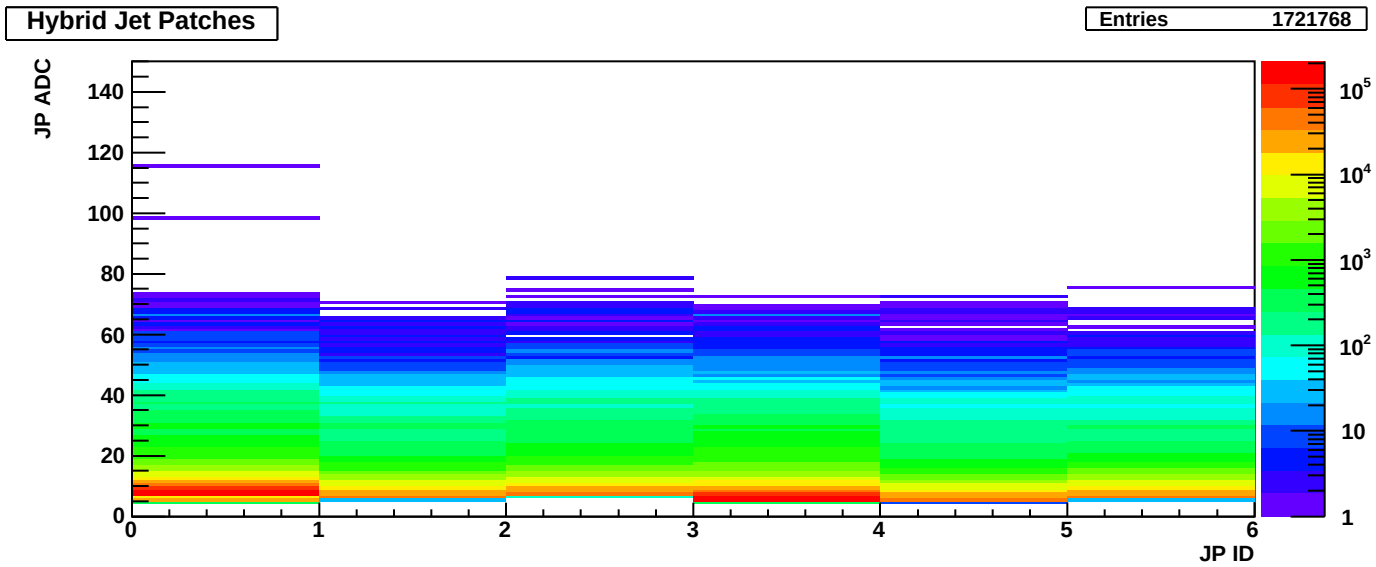

Barrel EMC L0 Input - Patch Sum
Entries 2.582652e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

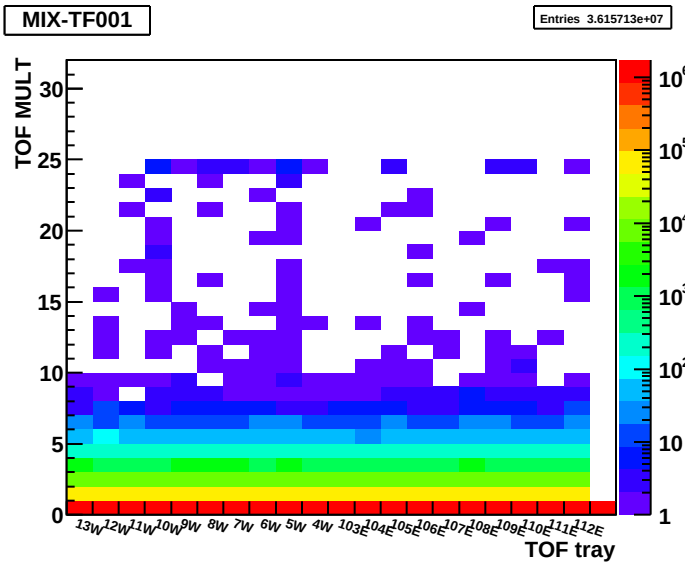

Endcap EMC L0 Input - High Tower
Entries 7.747956e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

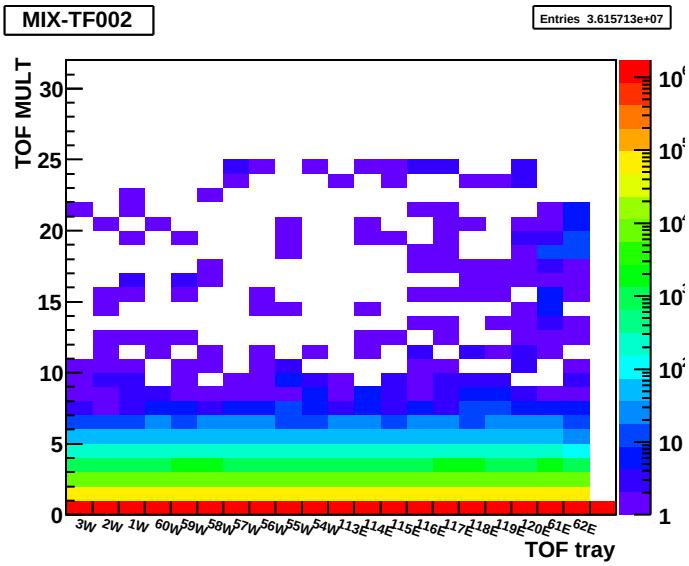

Endcap EMC L0 Input - Patch Sum
Entries 7.747956e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

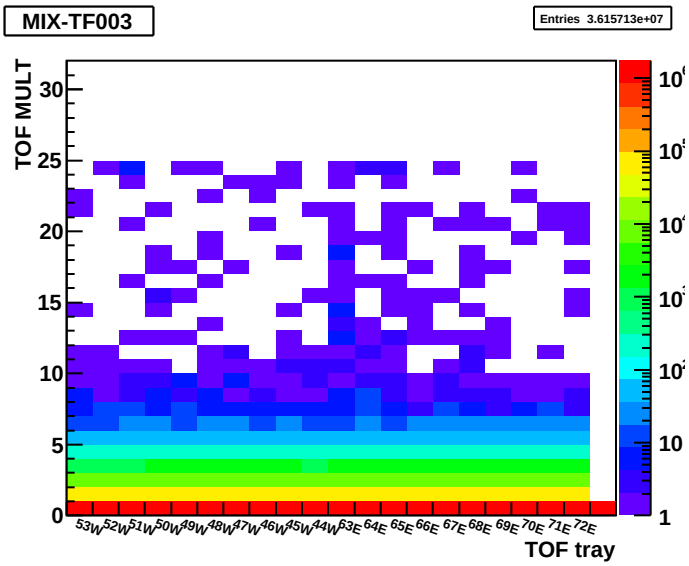

Barrel Jet Patches
Entries 1.549591e+07
JP ADC
JP ID

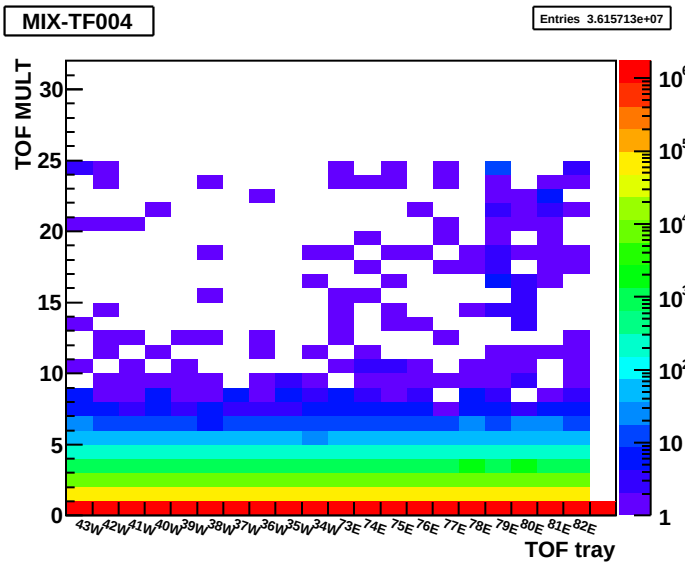

Endcap Jet Patches
Entries 5165304
JP ADC
JP ID

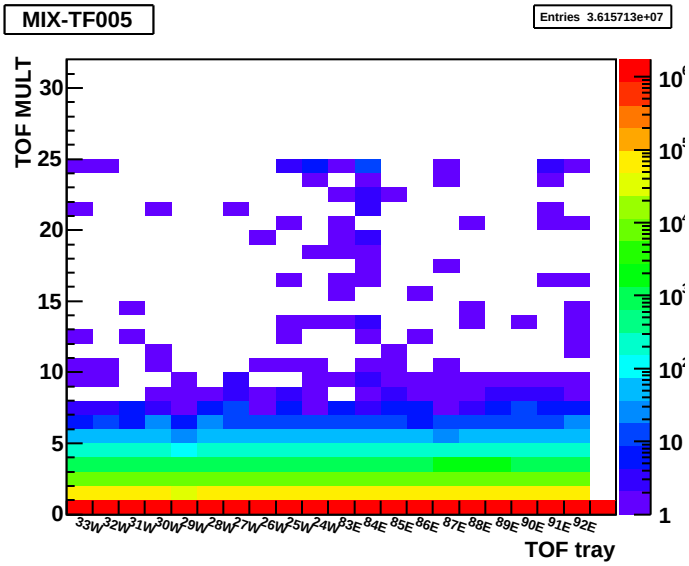

Hybrid Jet Patches
Entries 1721768
JP ADC
JP ID

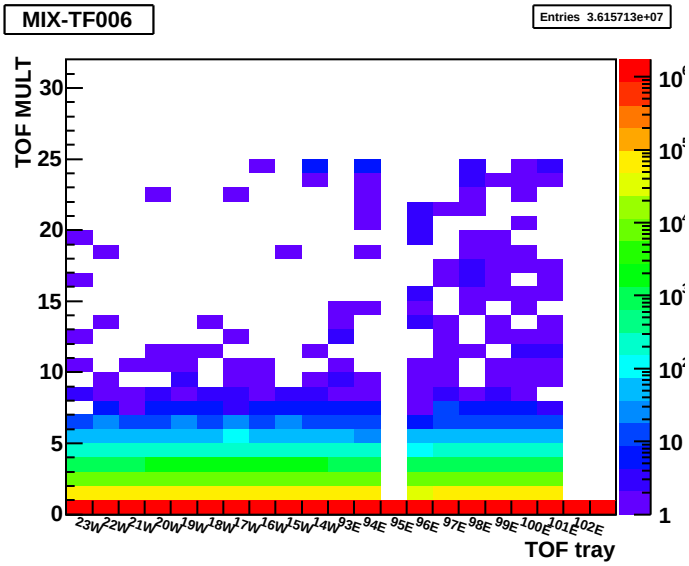

MIX-TF001
Entries 3.615713e+07
TOF MULT
TOF tray

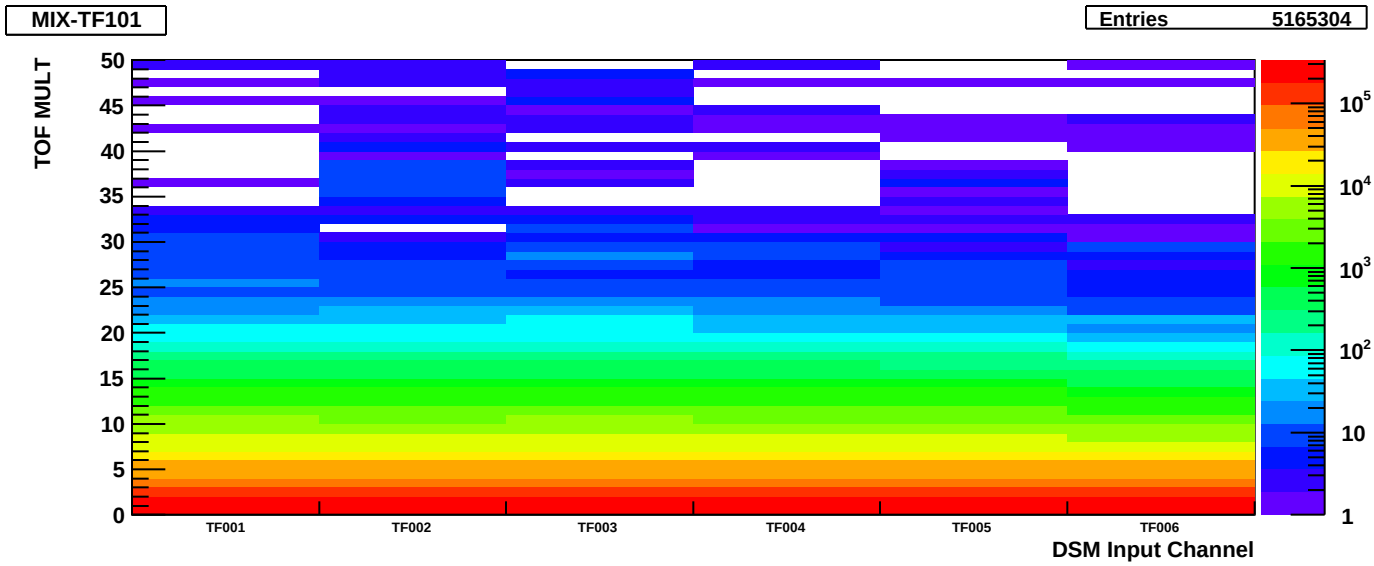

MIX-TF002
Entries 3.615713e+07
TOF MULT
TOF tray

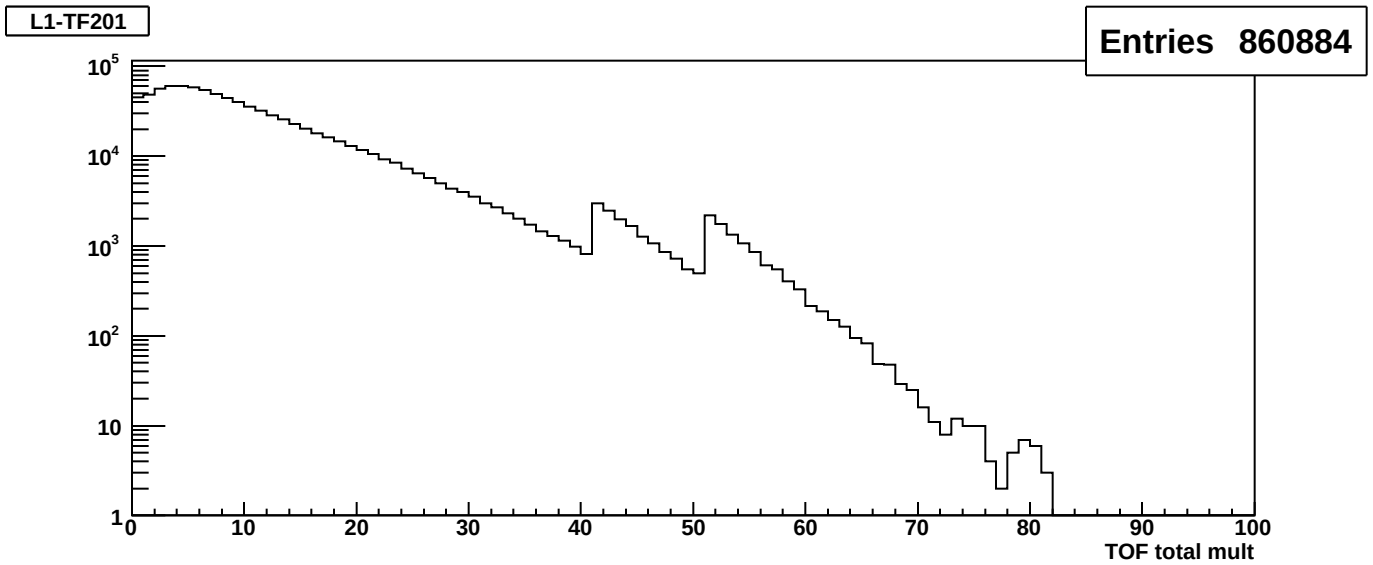

MIX-TF003
Entries 3.615713e+07
TOF MULT
TOF tray

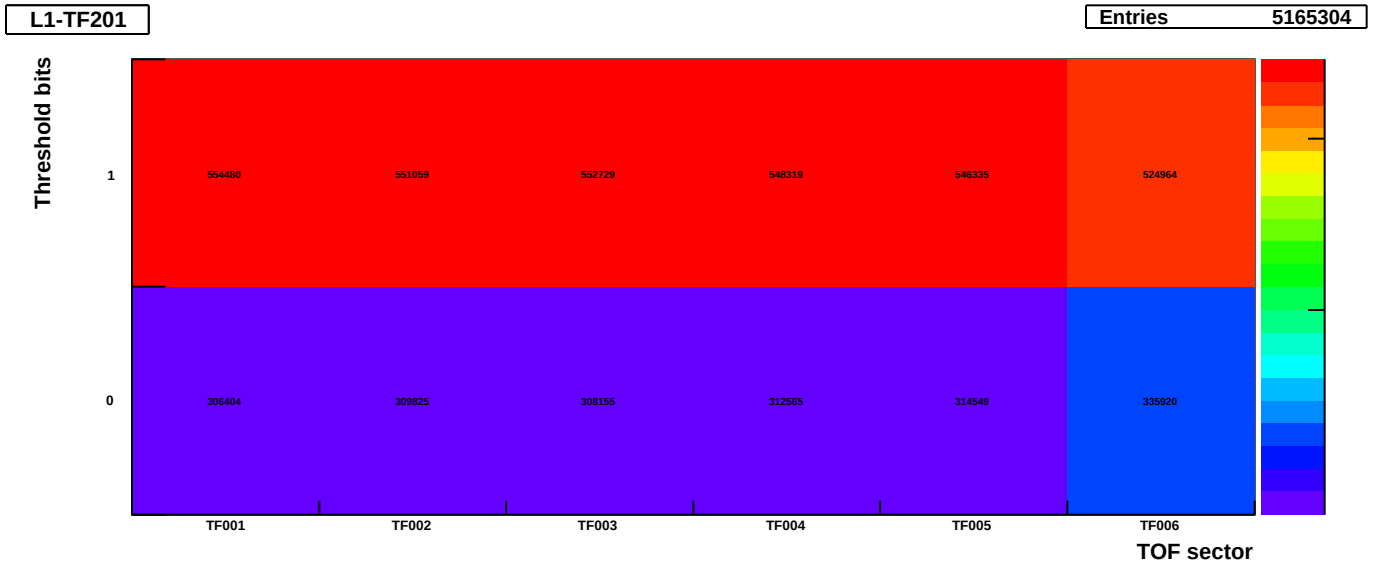

MIX-TF004
Entries 3.615713e+07
TOF MULT
TOF tray

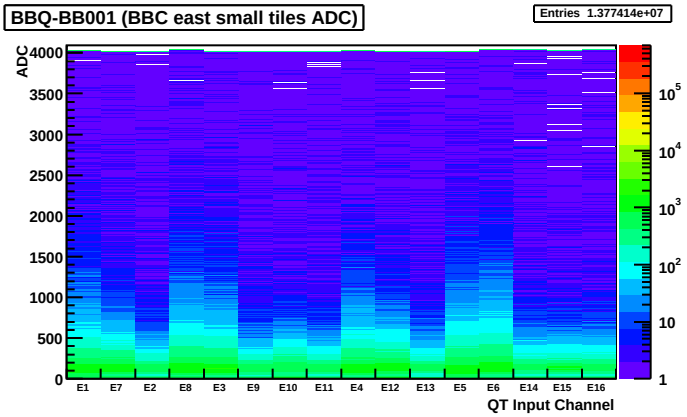

MIX-TF005
Entries 3.615713e+07
TOF MULT
TOF tray

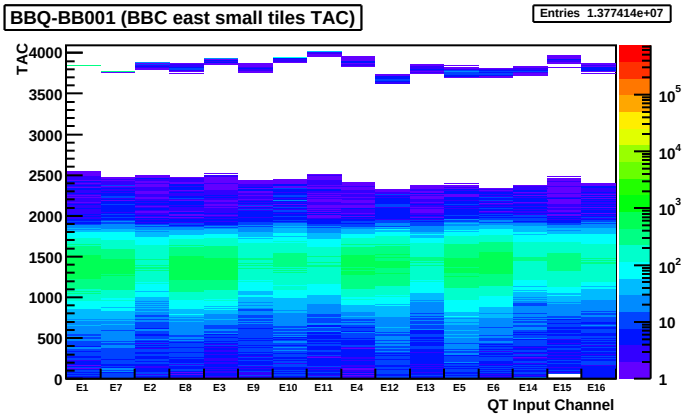

MIX-TF006
Entries 3.615713e+07
TOF MULT
TOF tray

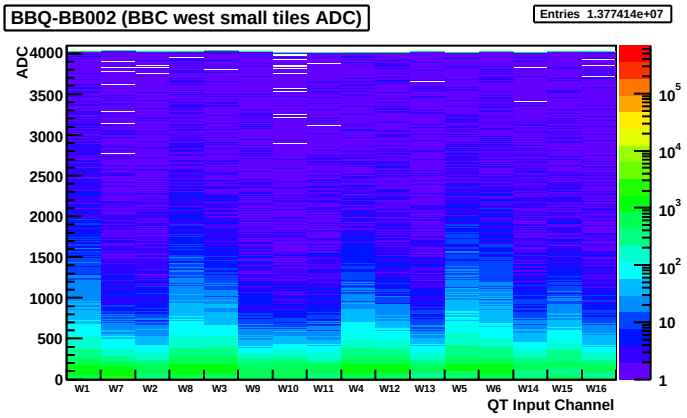

MIX-TF101
Entries 5165304
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

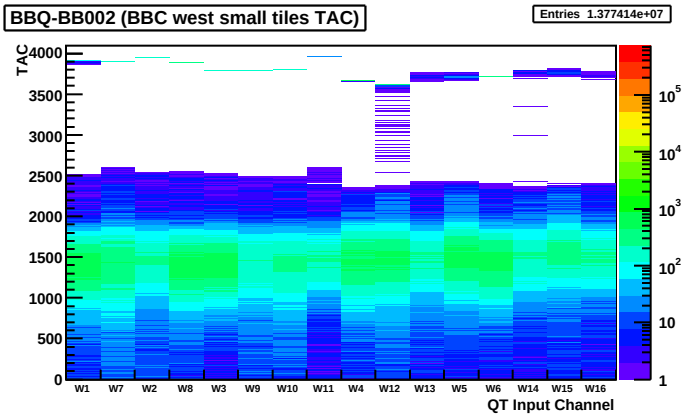

L1-TF201
Entries 860884
TOF total mult

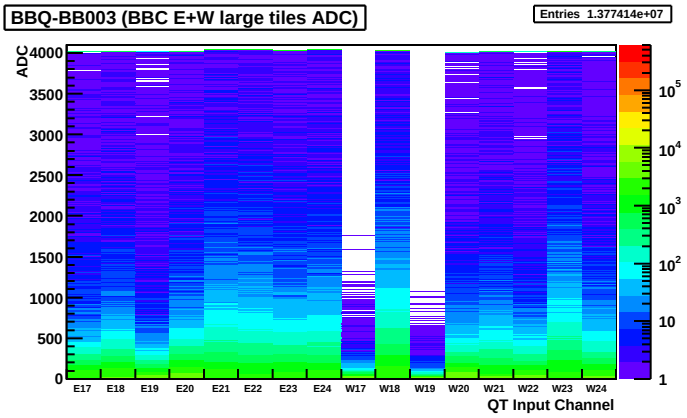

L1-TF201
Entries 5165304
Threshold bits
554480
551059
552729
548319
546335
524964
306404
309825
308155
312565
314549
335920
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

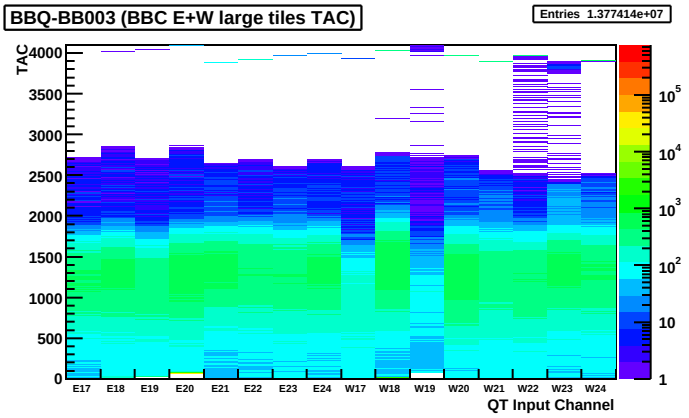

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.377414e+07
ADC
QT Input Channel

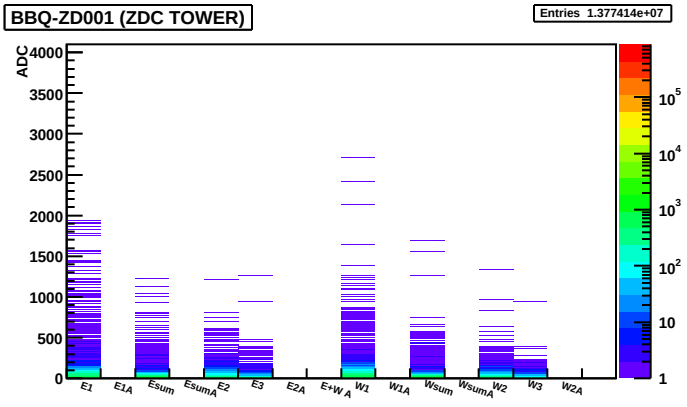

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.377414e+07
TAC
QT Input Channel

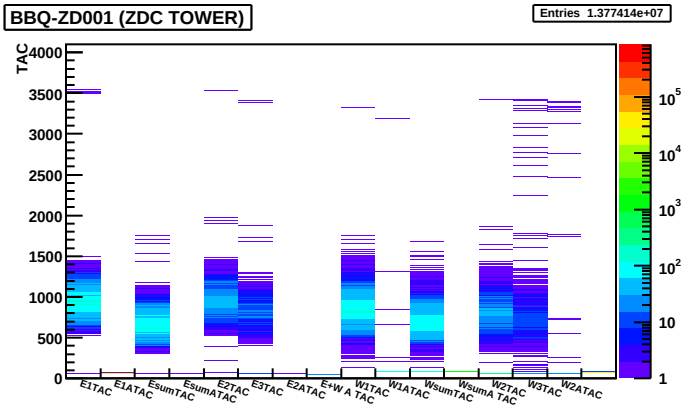

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.377414e+07
ADC
QT Input Channel

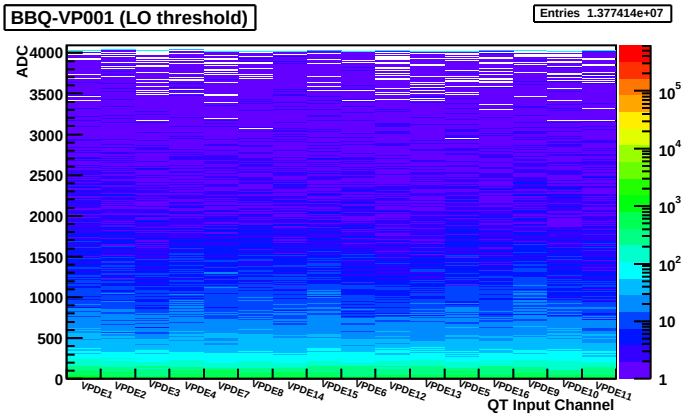

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.377414e+07
TAC
QT Input Channel

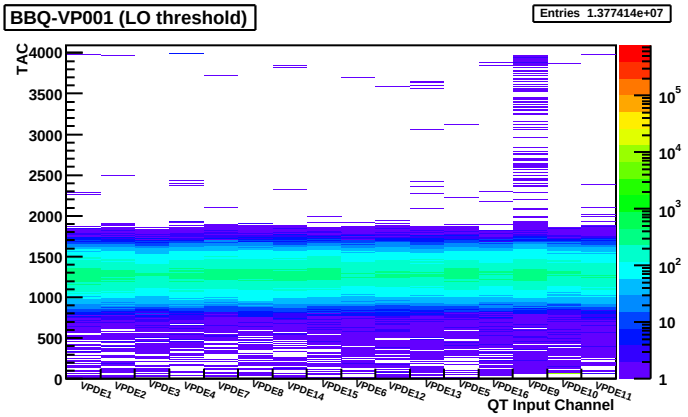

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.377414e+07
ADC
QT Input Channel

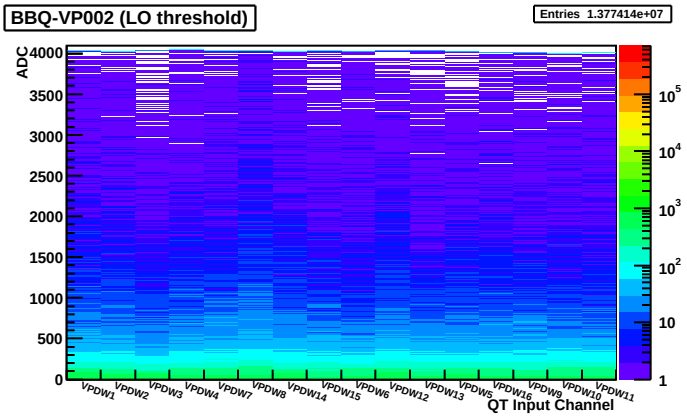

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.377414e+07
TAC
QT Input Channel

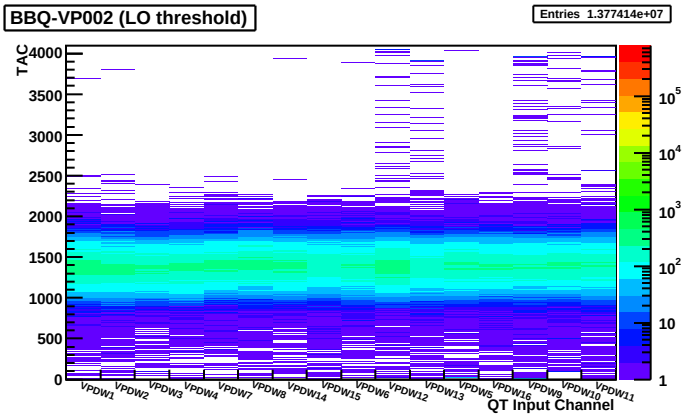

BBQ-ZD001 (ZDC TOWER)
Entries 1.377414e+07
ADC

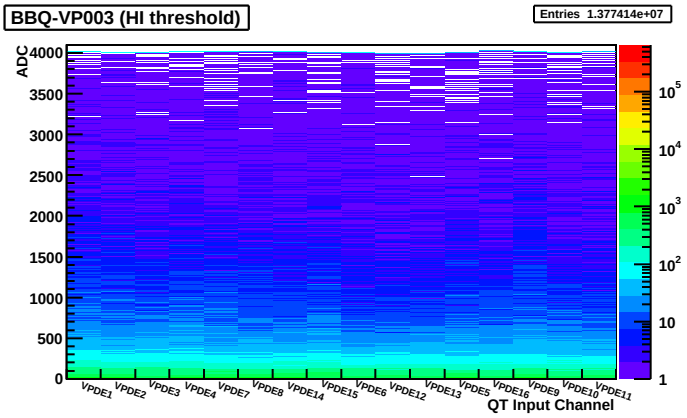

BBQ-ZD001 (ZDC TOWER)
Entries 1.377414e+07
TAC

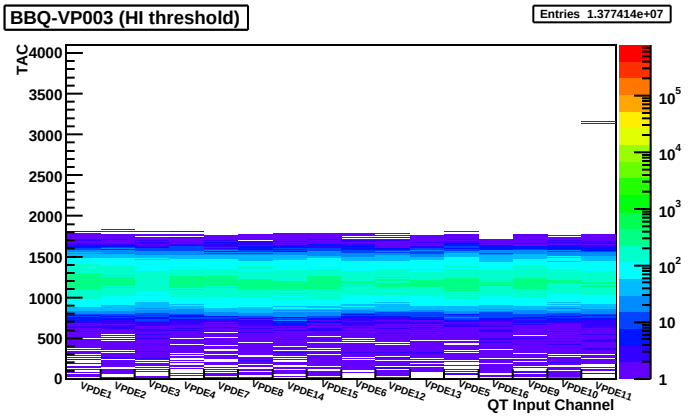

BBQ-VP001 (LO threshold)
Entries 1.377414e+07
ADC
QT Input Channel

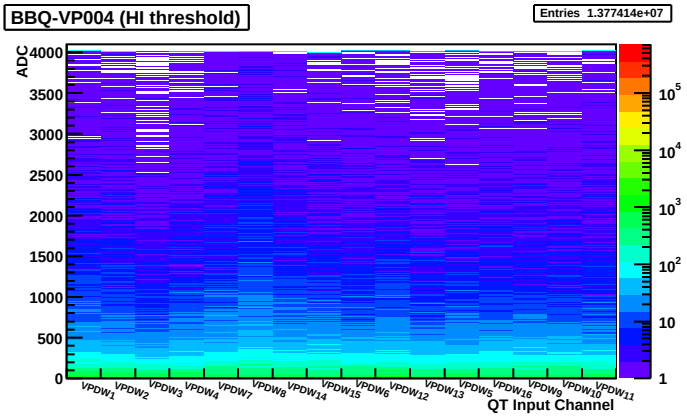

BBQ-VP001 (LO threshold)
Entries 1.377414e+07
TAC
QT Input Channel

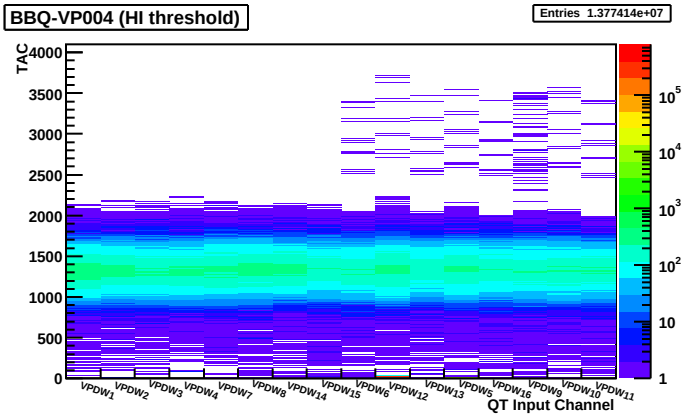

BBQ-VP002 (LO threshold)
Entries 1.377414e+07
ADC
QT Input Channel

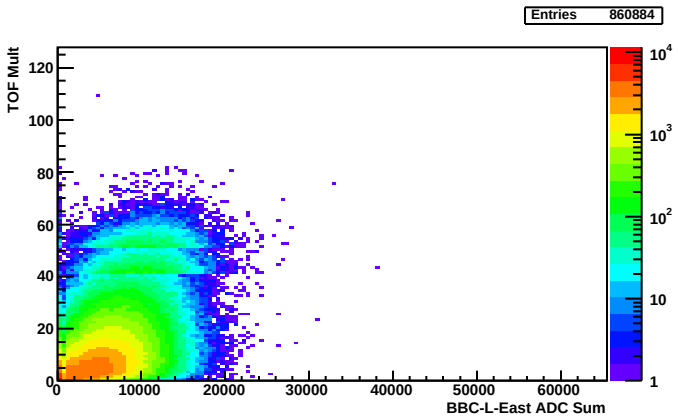

BBQ-VP002 (LO threshold)
Entries 1.377414e+07
TAC
QT Input Channel

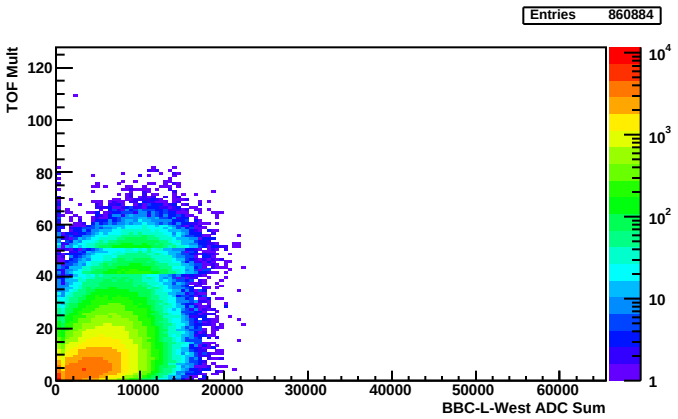

BBQ-VP003 (HI threshold)
Entries 1.377414e+07
ADC
QT Input Channel

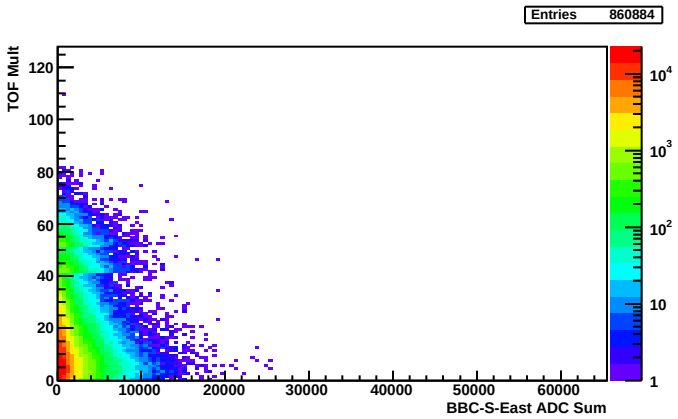

BBQ-VP003 (HI threshold)
Entries 1.377414e+07
TAC
QT Input Channel

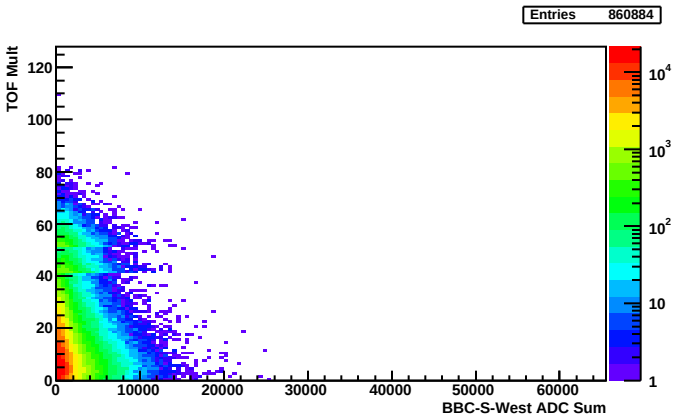

BBQ-VP004 (HI threshold)
Entries 1.377414e+07
ADC
QT Input Channel

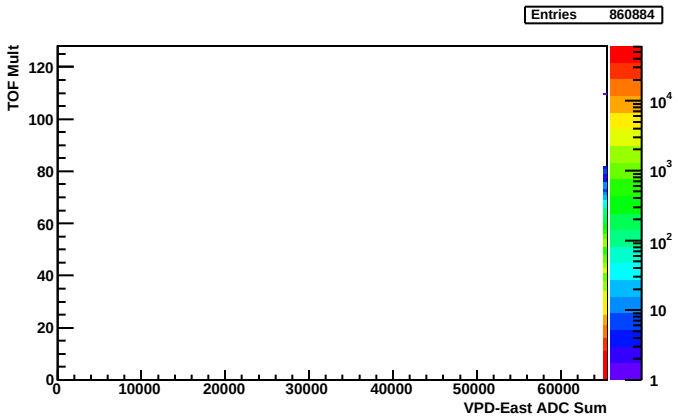

BBQ-VP004 (HI threshold)
Entries 1.377414e+07
TAC
QT Input Channel

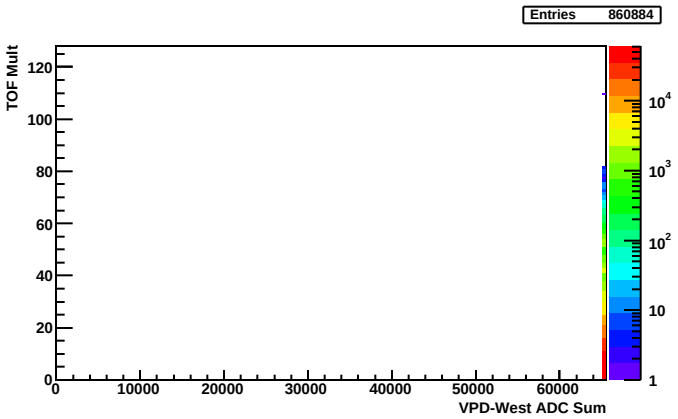

Entries 860884
TOF Mult
BBC-L-East ADC Sum

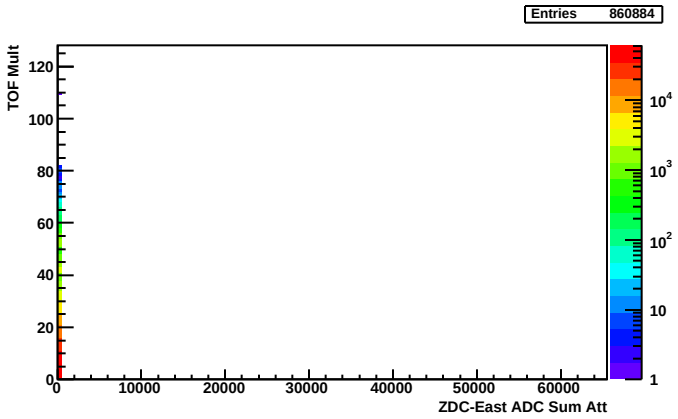

Entries 860884
TOF Mult
BBC-L-West ADC Sum

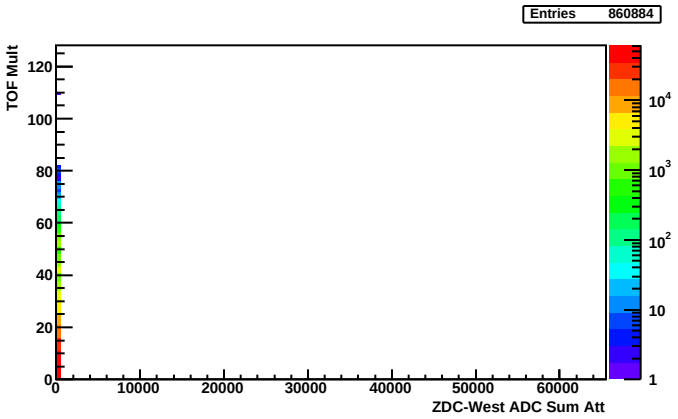

Entries 860884
TOF Mult
BBC-S-East ADC Sum

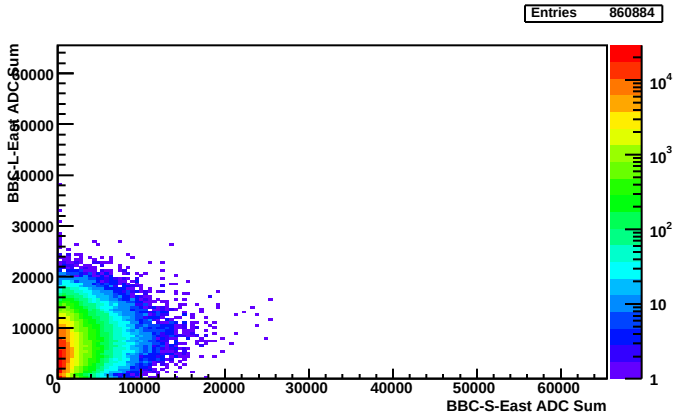

Entries 860884
TOF Mult
BBC-S-West ADC Sum

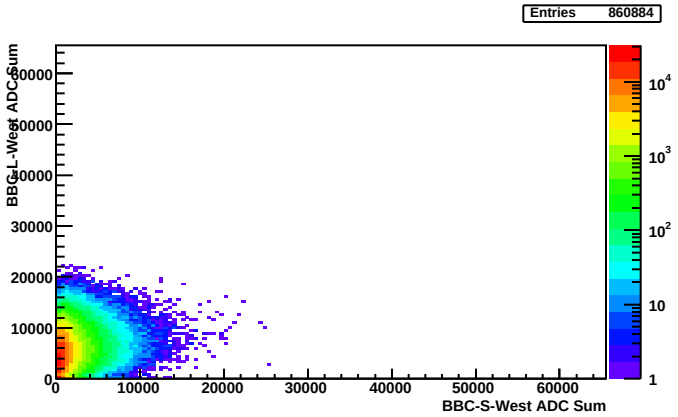

Entries 860884
TOF Mult
VPD-East ADC Sum

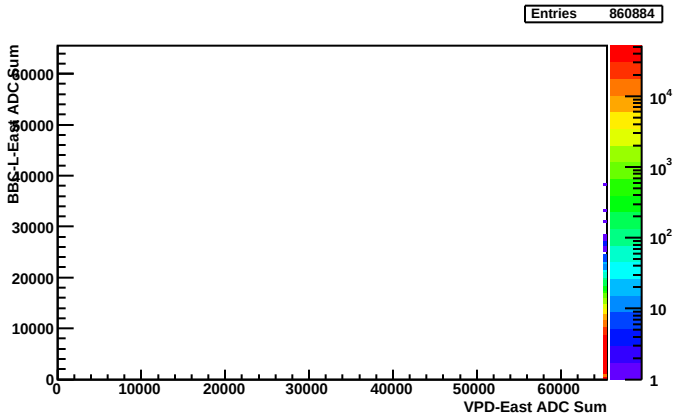

Entries 860884
TOF Mult
VPD-West ADC Sum

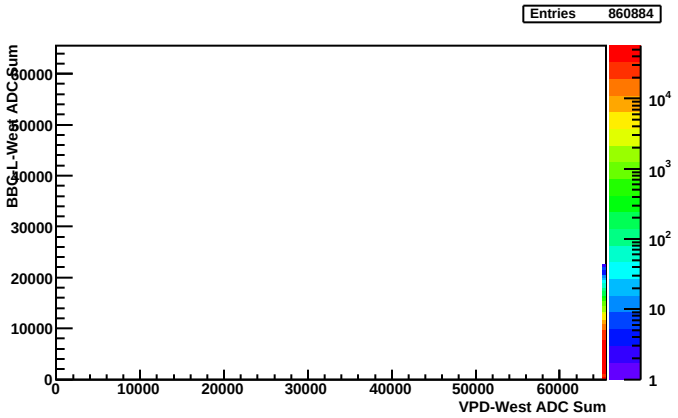

Entries 860884
TOF Mult
ZDC-East ADC Sum Att

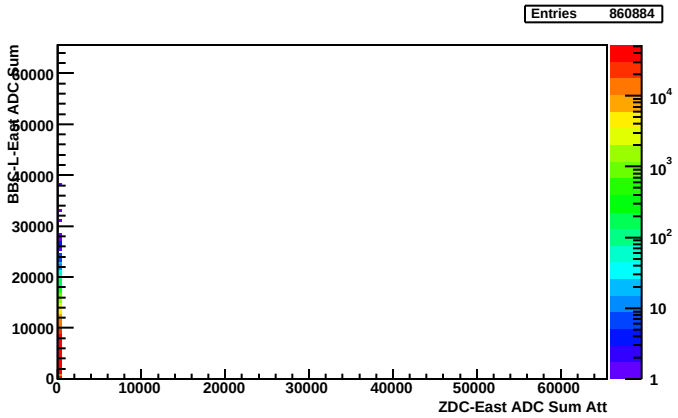

Entries 860884
TOF Mult
ZDC-West ADC Sum Att

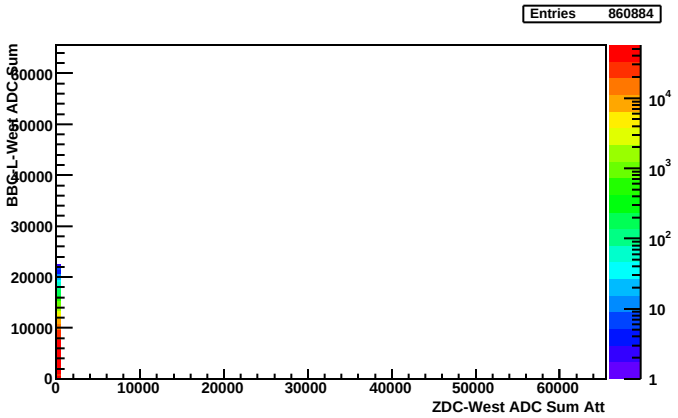

Entries 860884
BBC-L-East ADC Sum
BBC-S-East ADC Sum

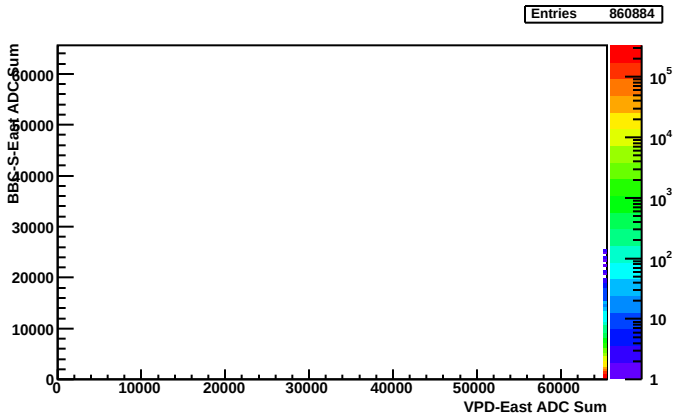

Entries 860884
BBC-L-West ADC Sum
BBC-S-West ADC Sum

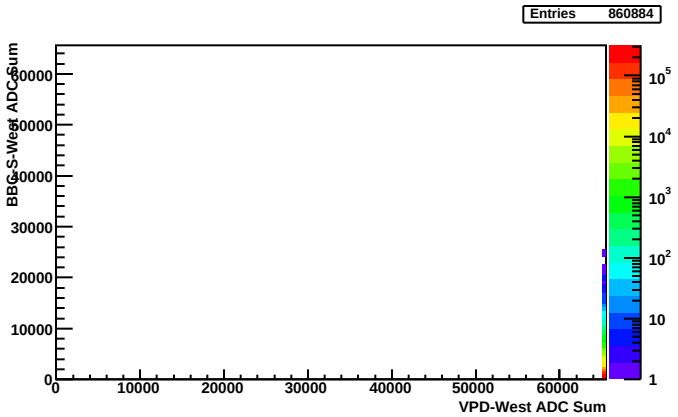

Entries 860884
BBC-L-East ADC Sum
VPD-East ADC Sum

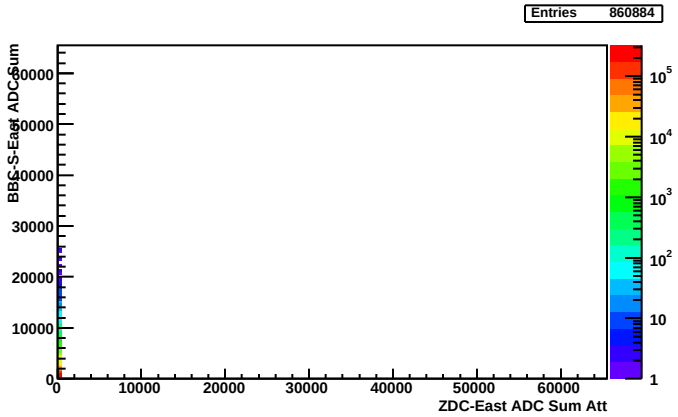

Entries 860884
BBC-L-West ADC Sum
VPD-West ADC Sum

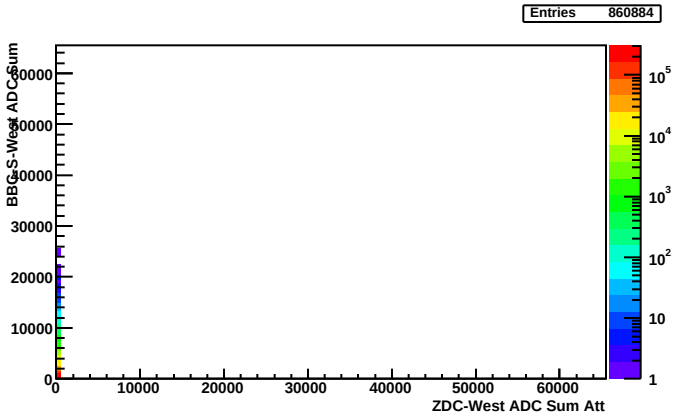

Entries 860884
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

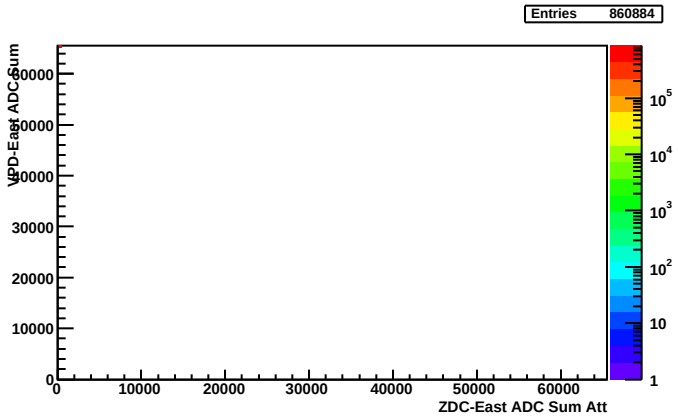

Entries 860884
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

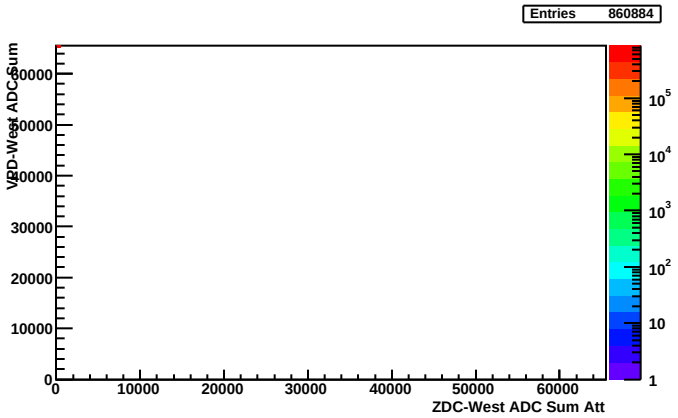

Entries 860884
BBC-S-East ADC Sum
VPD-East ADC Sum

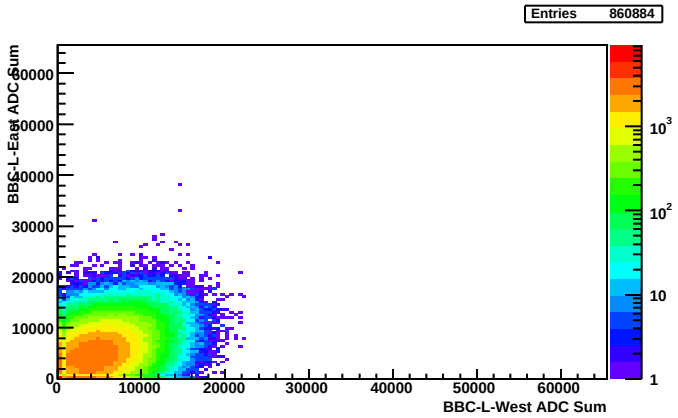

Entries 860884
BBC-S-West ADC Sum
VPD-West ADC Sum

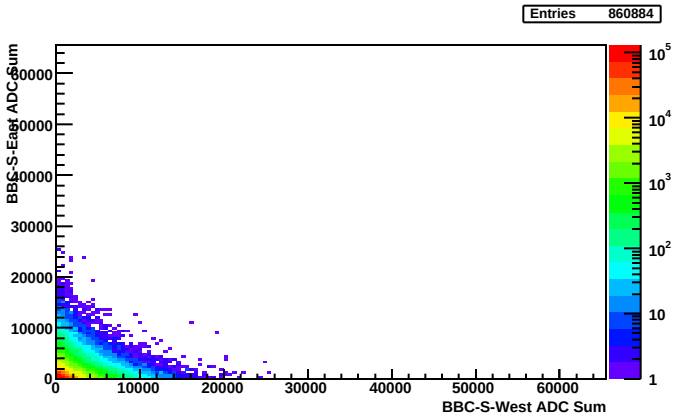

Entries 860884
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

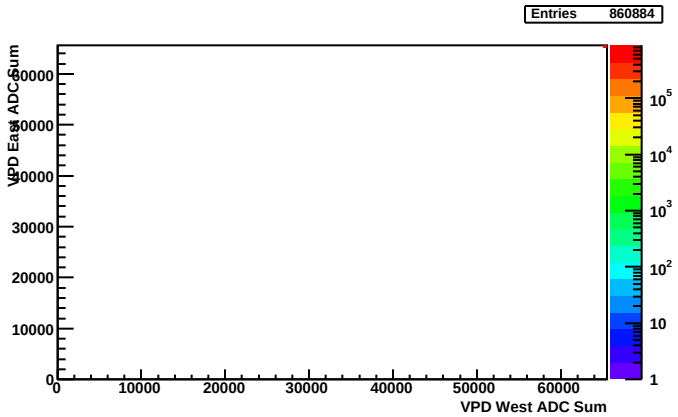

Entries 860884
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

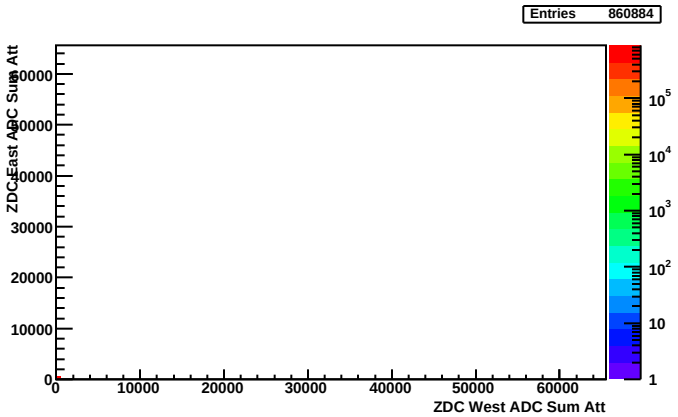

Entries 860884
VPD-East ADC Sum
ZDC-East ADC Sum Att

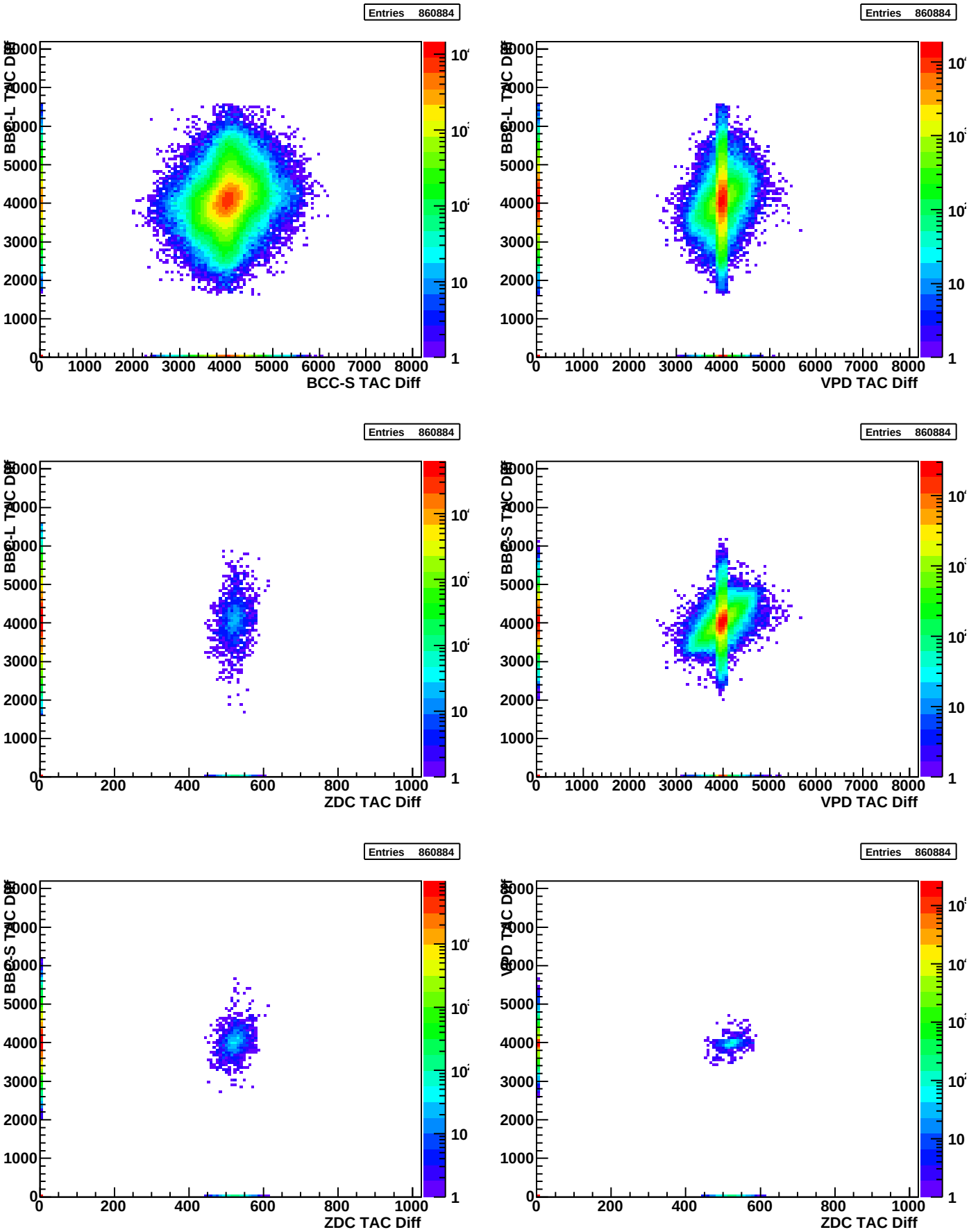

Entries 860884
VPD-West ADC Sum
ZDC-West ADC Sum Att

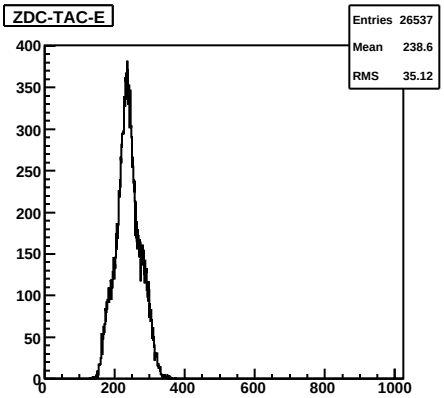

Entries 860884
BBC-L-East ADC Sum
BBC-L-West ADC Sum

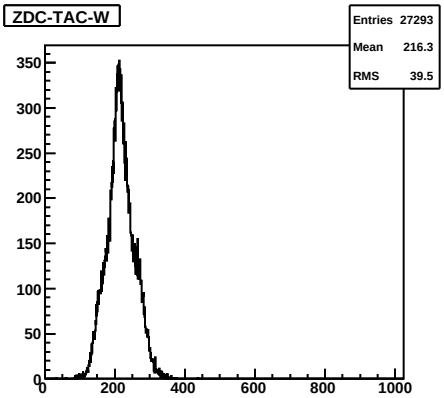

Entries 860884
BBC-S-East ADC Sum
BBC-S-West ADC Sum

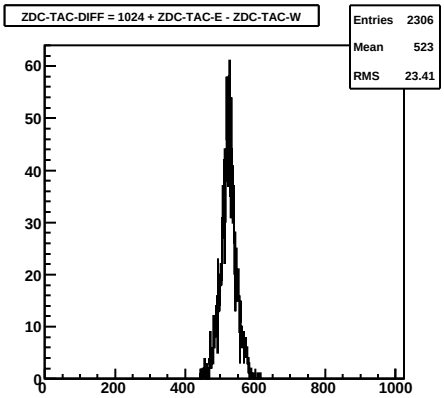

Entries 860884
VPD East ADC Sum
VPD West ADC Sum

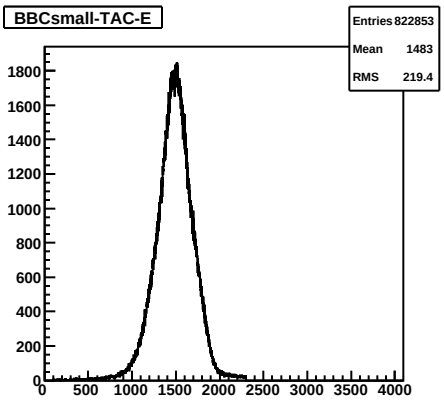

Entries 860884
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

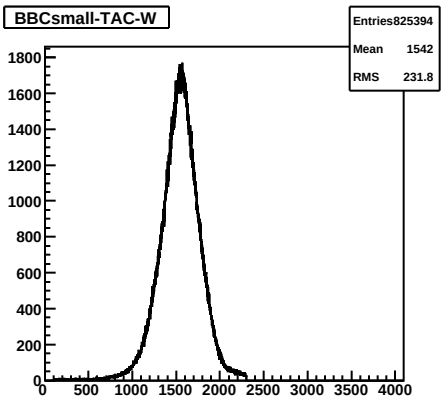

Entries 860884
BBC-L TAC Diff
BCC-S TAC Diff
Entries 860884
BBC-L TAC Diff
VPD TAC Diff
Entries 860884
BBC-L TAC Diff
ZDC TAC Diff
Entries 860884
BBC-S TAC Diff
VPD TAC Diff
Entries 860884
BBC-S TAC Diff
ZDC TAC Diff
Entries 860884
VPD TAC Diff
ZDC TAC Diff

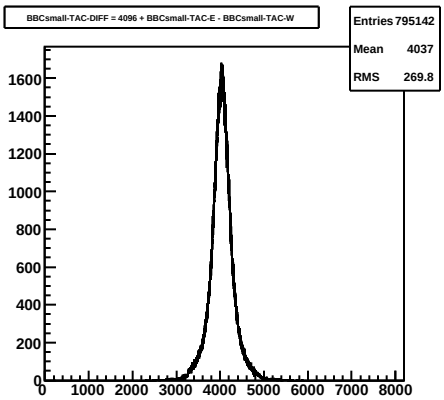

ZDC-TAC-E
Entries 26537
Mean 238.6
RMS 35.12

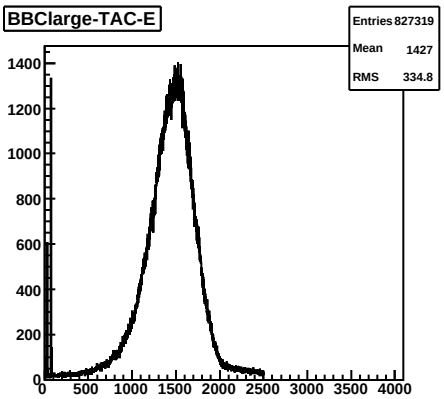

ZDC-TAC-W
Entries 27293
Mean 216.3
RMS 39.5

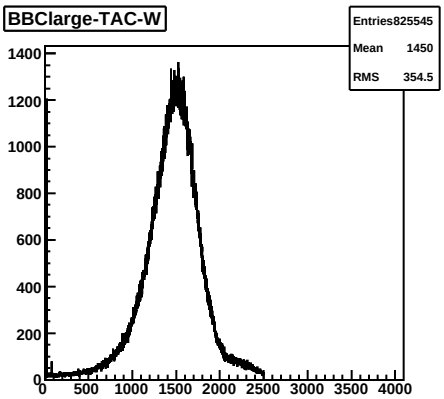

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 2306
Mean 523
RMS 23.41

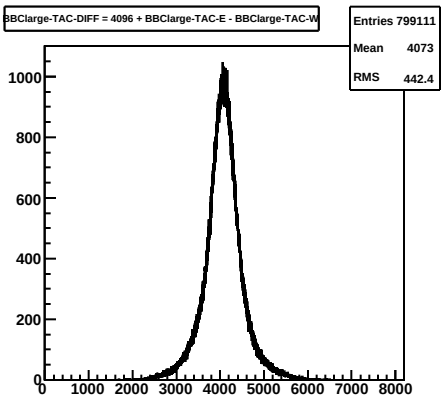

BBCsmall-TAC-E
Entries 822853
Mean 1483
RMS 219.4

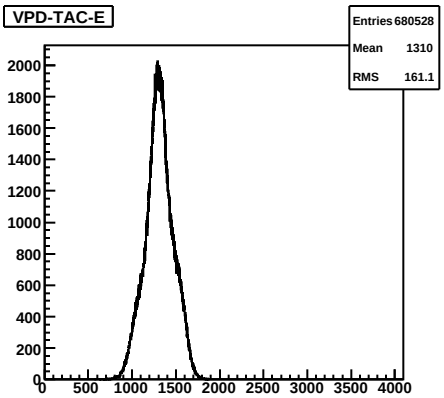

BBCsmall-TAC-W
Entries 825394
Mean 1542
RMS 231.8

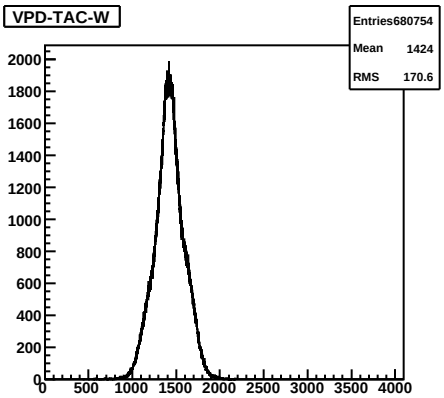

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 795142
Mean 4037
RMS 269.8

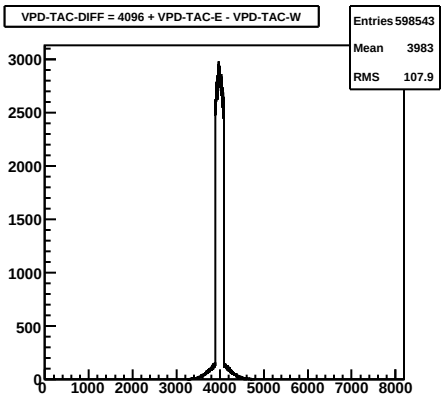

BBClarge-TAC-E
Entries 827319
Mean 1427
RMS 334.8

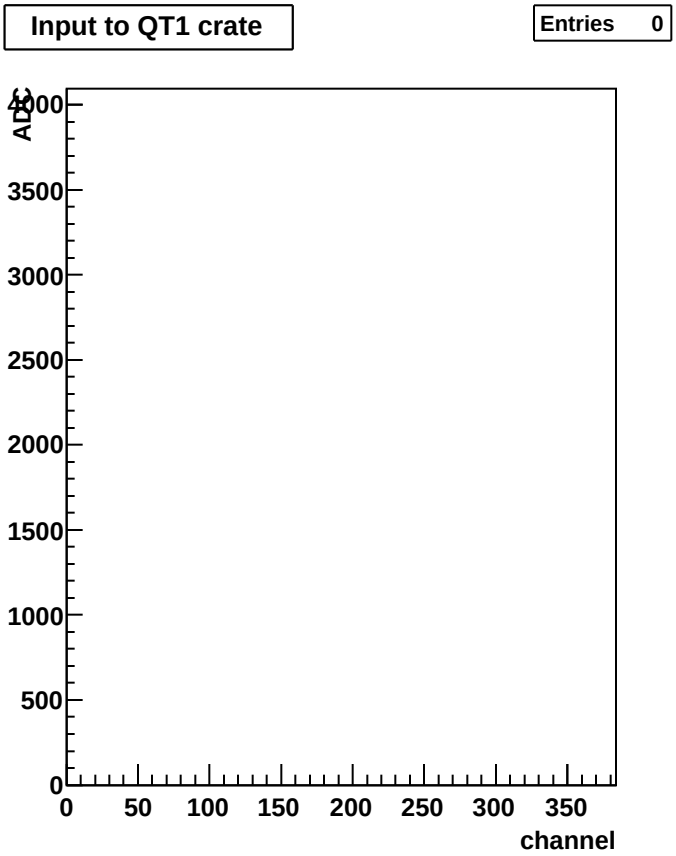

BBClarge-TAC-W
Entries 825545
Mean 1450
RMS 354.5

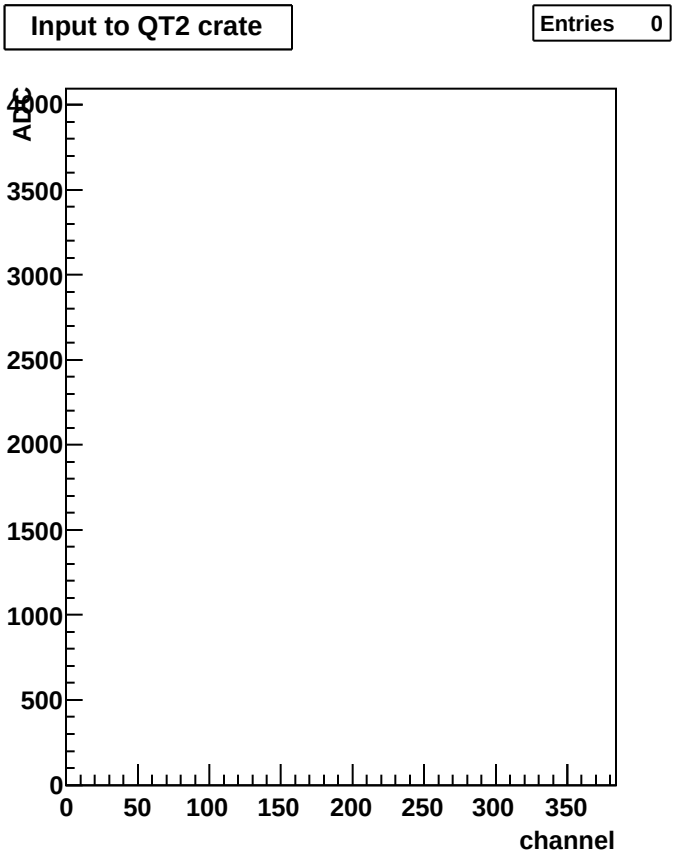

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 799111
Mean 4073
RMS 442.4

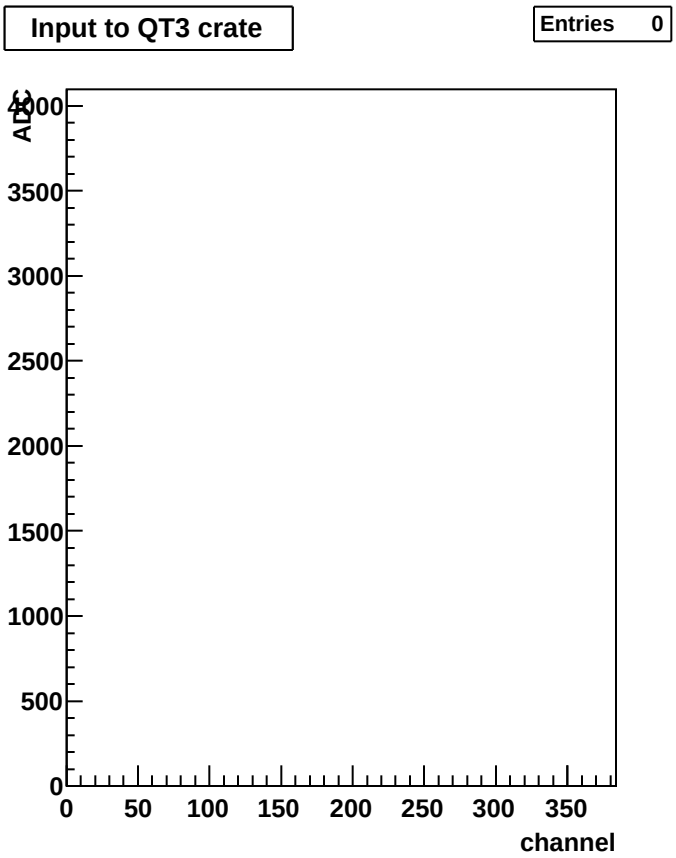

VPD-TAC-E
Entries 680528
Mean 1310
RMS 161.1

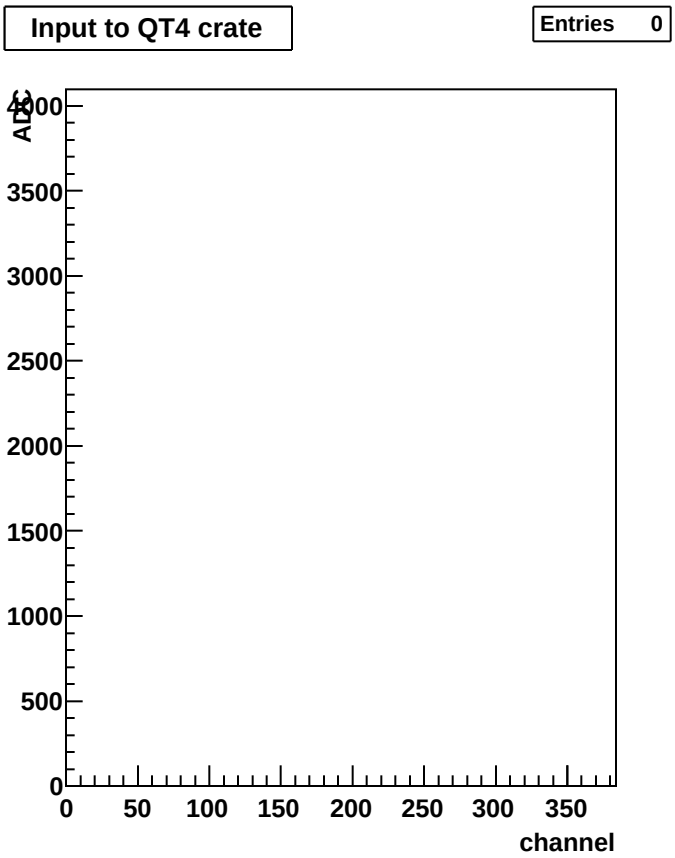

VPD-TAC-W
Entries 680754
Mean 1424
RMS 170.6

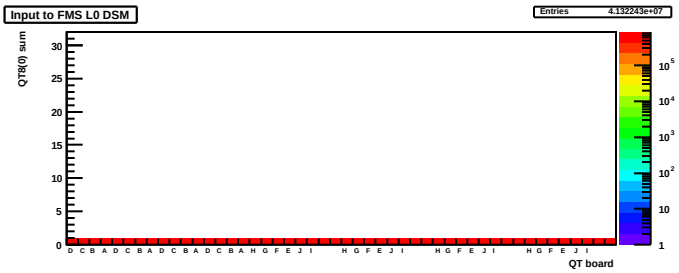

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 598543
Mean 3983
RMS 107.9

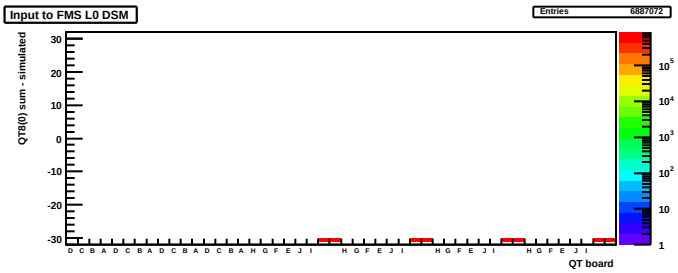

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

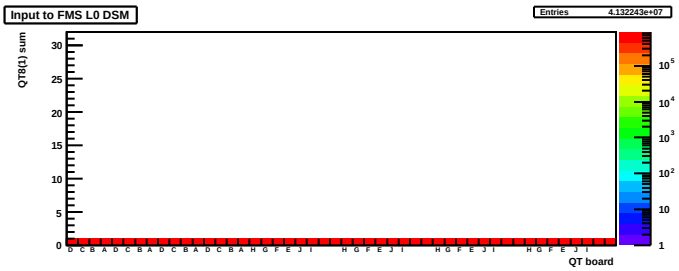

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

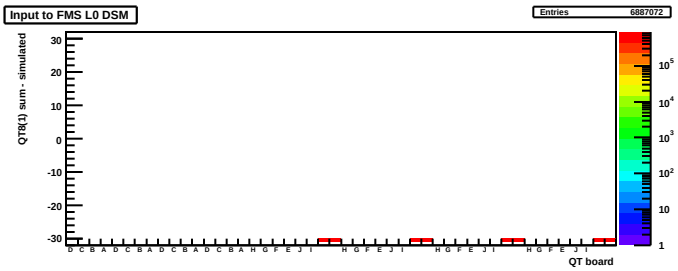

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

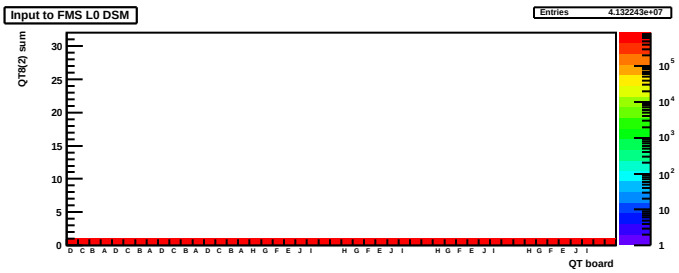

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

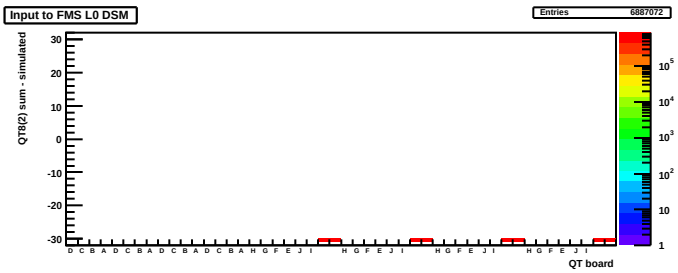

Input to FMS L0 DSM
Entries 4.132243e+07
QT8(0) sum
QT board

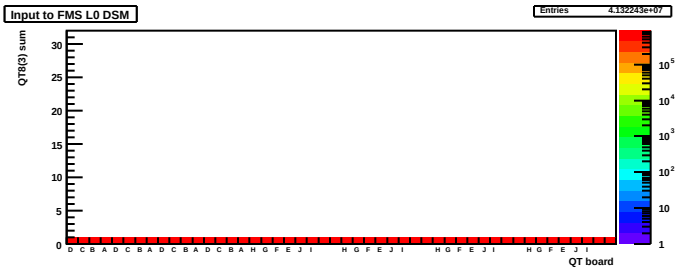

Input to FMS L0 DSM
Entries 6887072
QT8(0) sum - simulated
QT board

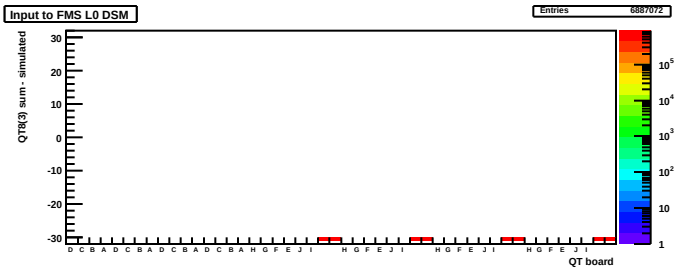

Input to FMS L0 DSM
Entries 4.132243e+07
QT8(1) sum
QT board

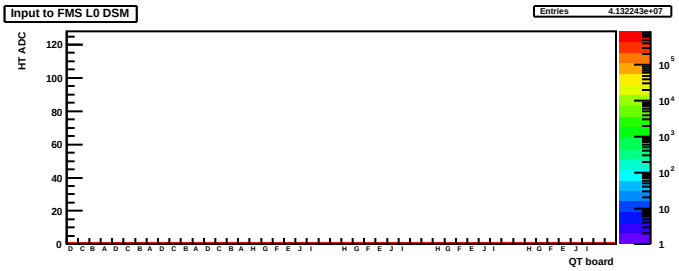

Input to FMS L0 DSM
Entries 6887072
QT8(1) sum - simulated
QT board

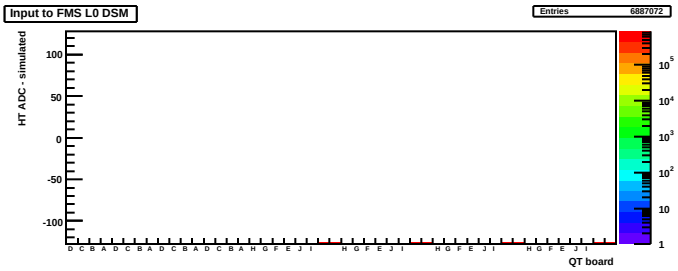

Input to FMS L0 DSM
Entries 4.132243e+07
QT8(2) sum
QT board

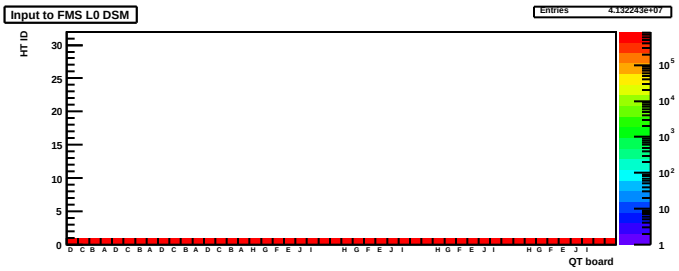

Input to FMS L0 DSM
Entries 6887072
QT8(2) sum - simulated
QT board

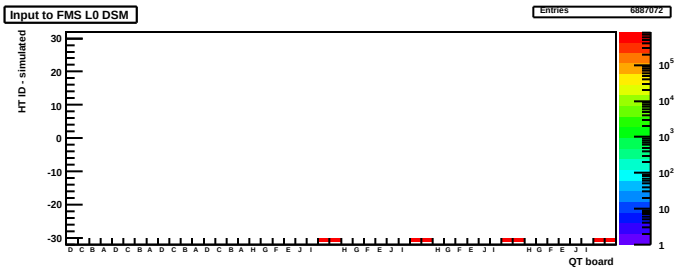

Input to FMS L0 DSM
Entries 4.132243e+07
QT8(3) sum
QT board

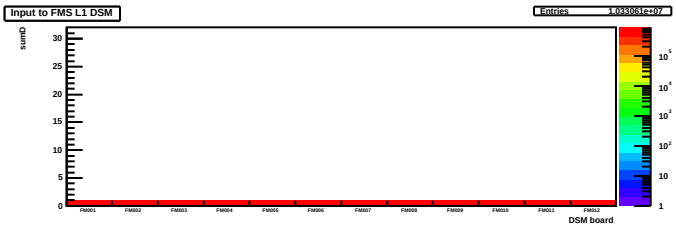

Input to FMS L0 DSM
Entries 6887072
QT8(3) sum - simulated
QT board

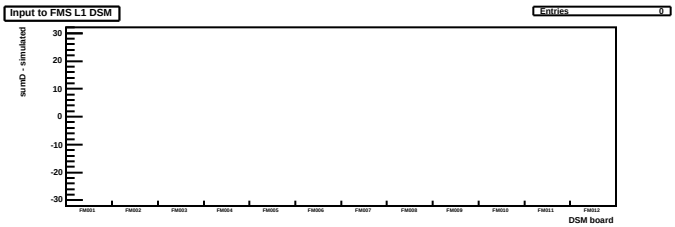

Input to FMS L0 DSM
Entries 4.132243e+07
HT ADC
QT board

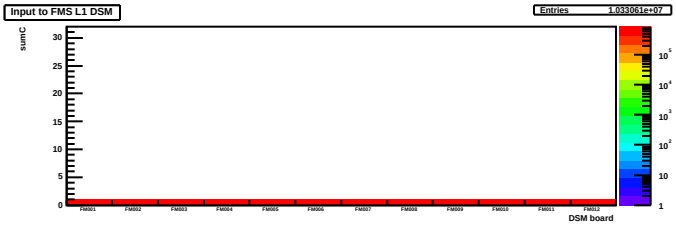

Input to FMS L0 DSM
Entries 6887072
HT ADC - simulated
QT board

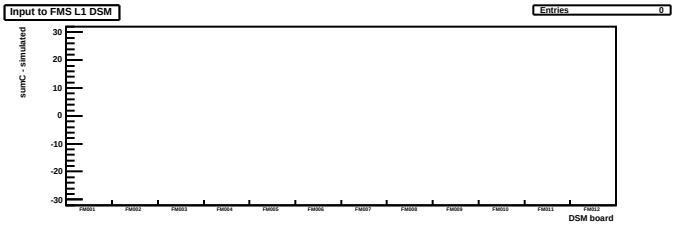

Input to FMS L0 DSM
Entries 4.132243e+07
HT ID
QT board

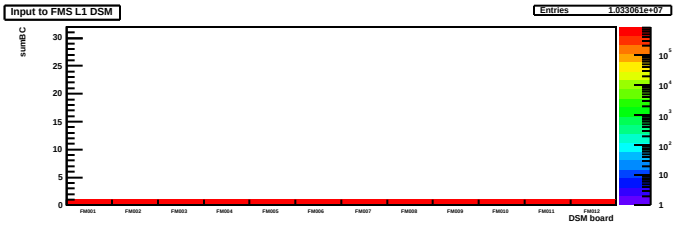

Input to FMS L0 DSM
Entries 6887072
HT ID - simulated
QT board

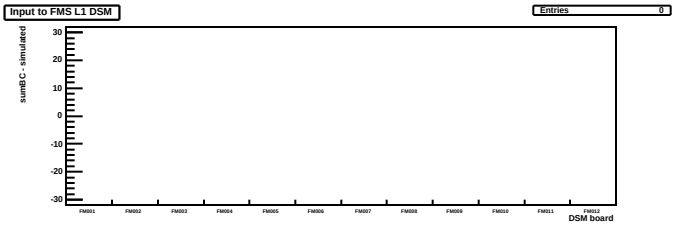

Input to FMS L1 DSM
Entries 1.033061e+07
sumD
DSM board

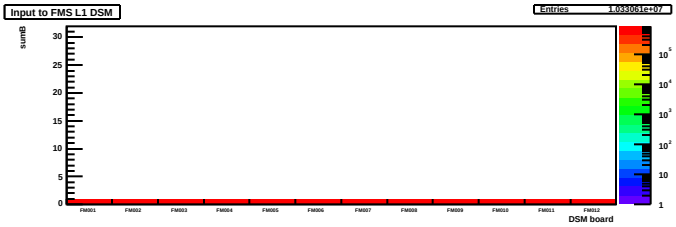

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

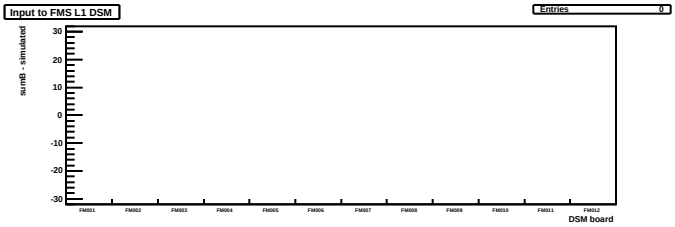

Input to FMS L1 DSM
Entries 1.033061e+07
sumC
DSM board

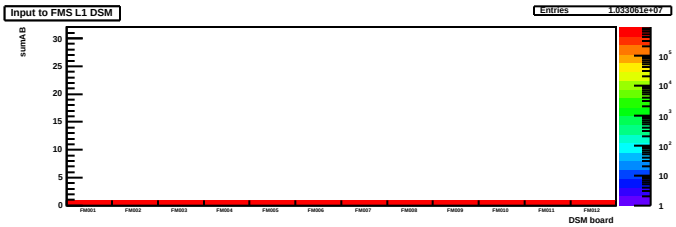

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

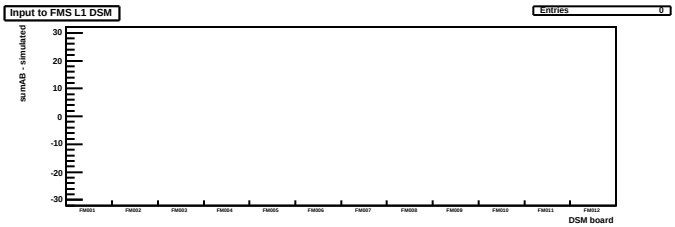

Input to FMS L1 DSM
Entries 1.033061e+07
sumBC
DSM board

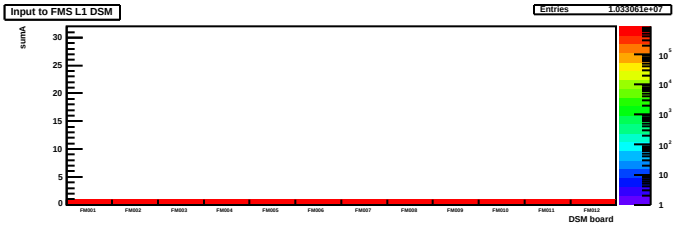

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

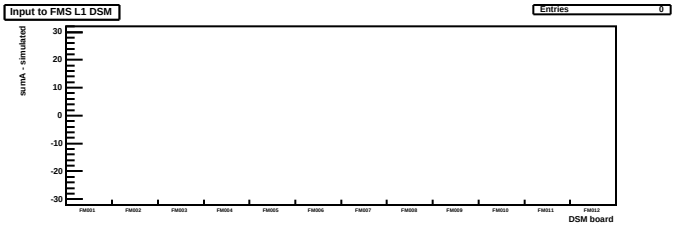

Input to FMS L1 DSM
Entries 1.033061e+07
sumB
DSM board

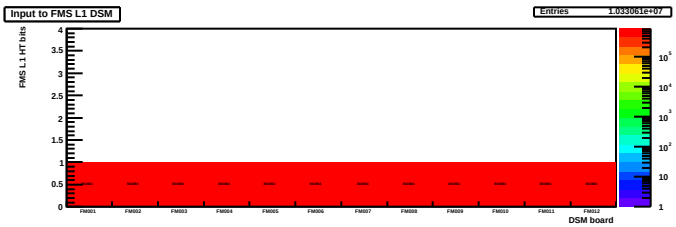

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

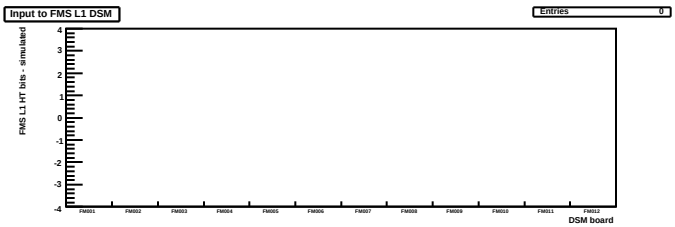

Input to FMS L1 DSM
Entries 1.033061e+07
sumAB
DSM board

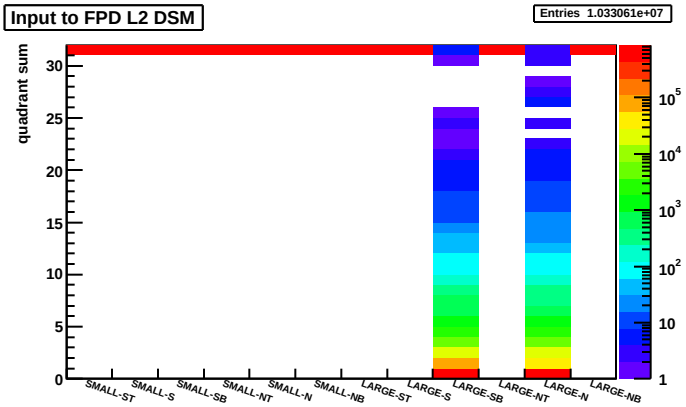

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

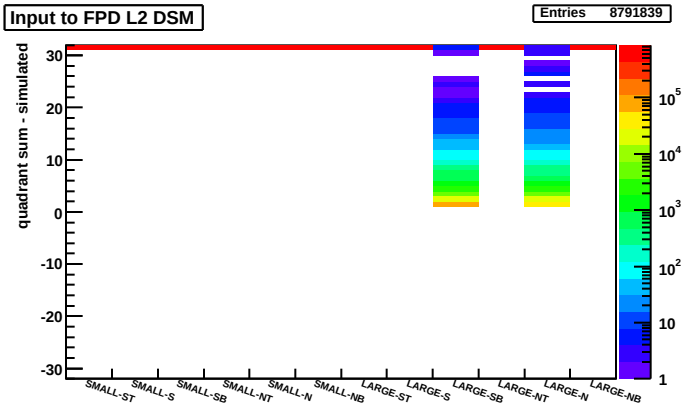

Input to FMS L1 DSM
Entries 1.033061e+07
sumA
DSM board

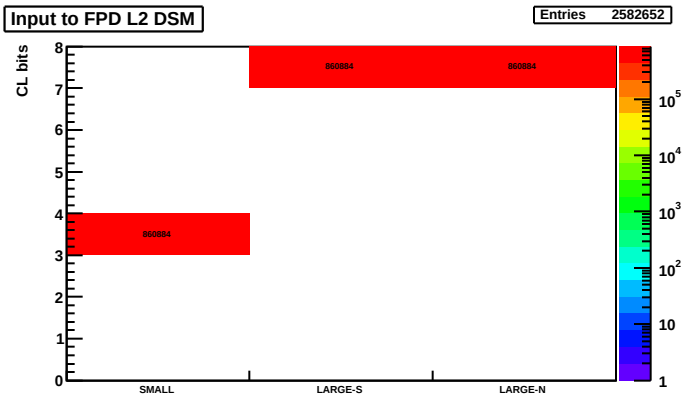

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

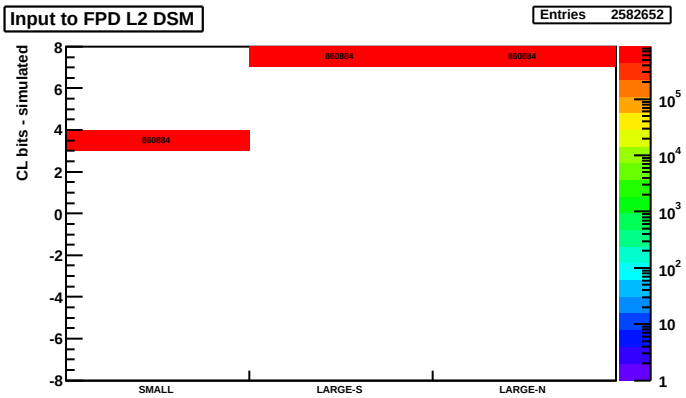

Input to FMS L1 DSM
Entries 1.033061e+07
FMS L1 HT bits
DSM board

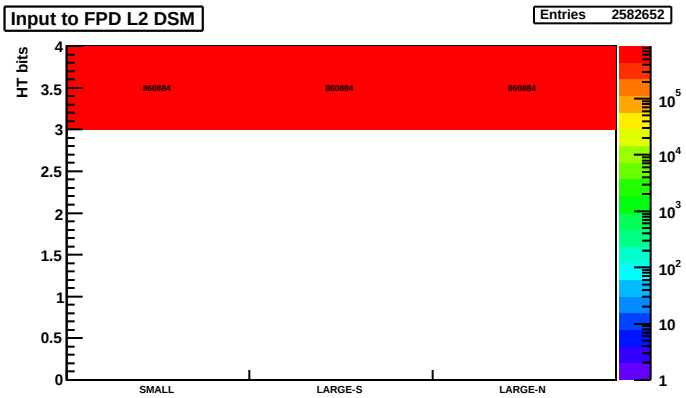

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

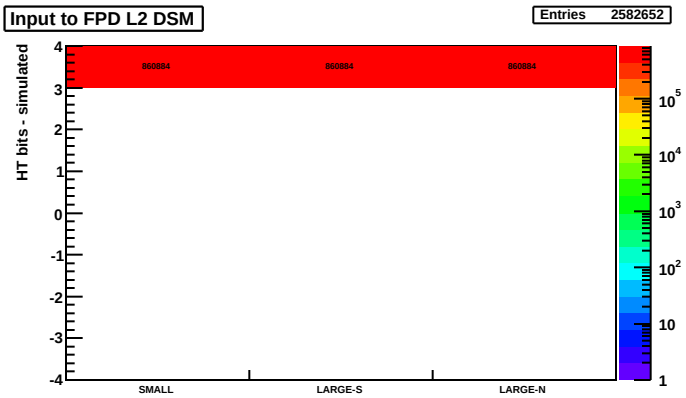

Input to FPD L2 DSM
Entries 1.033061e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

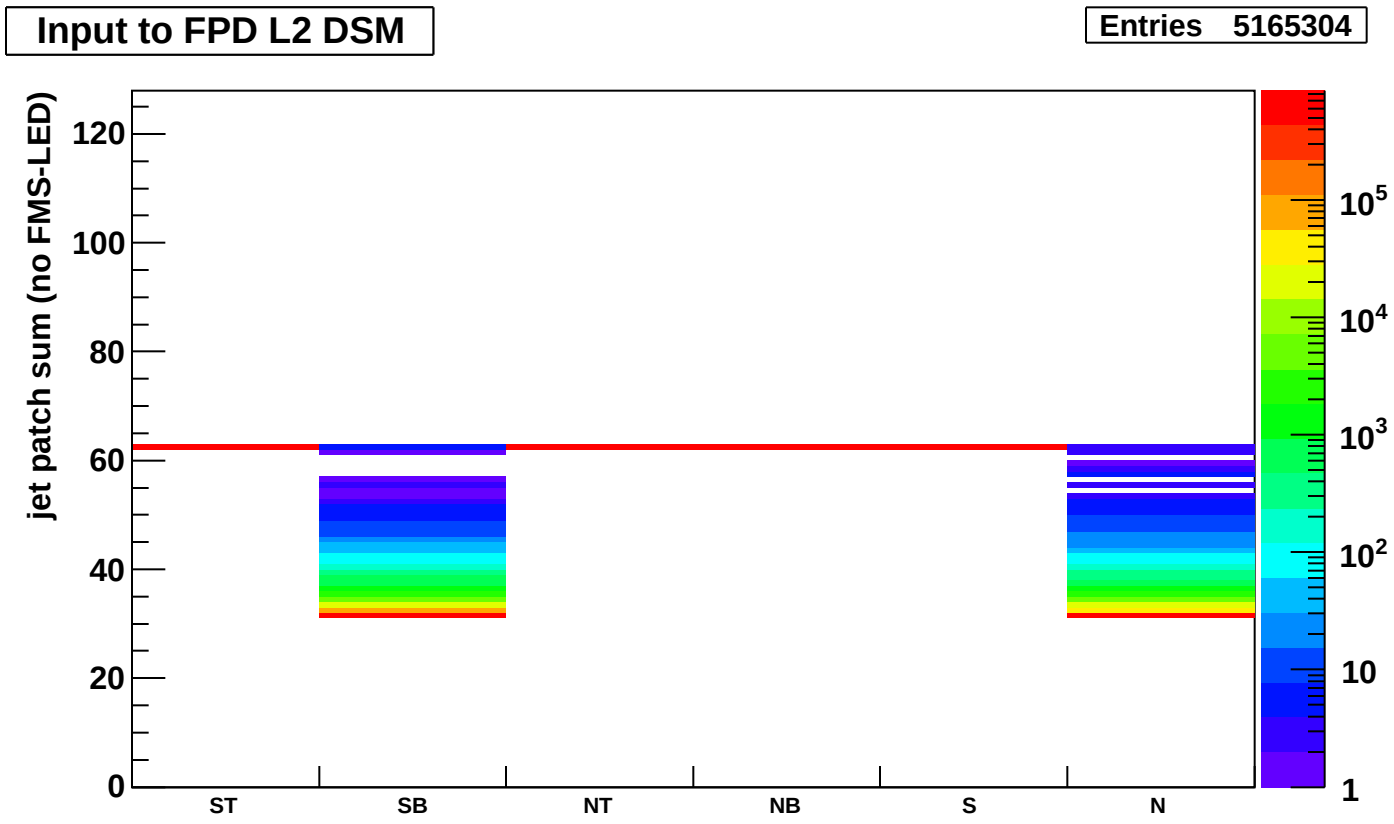

Input to FPD L2 DSM
Entries 8791839
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

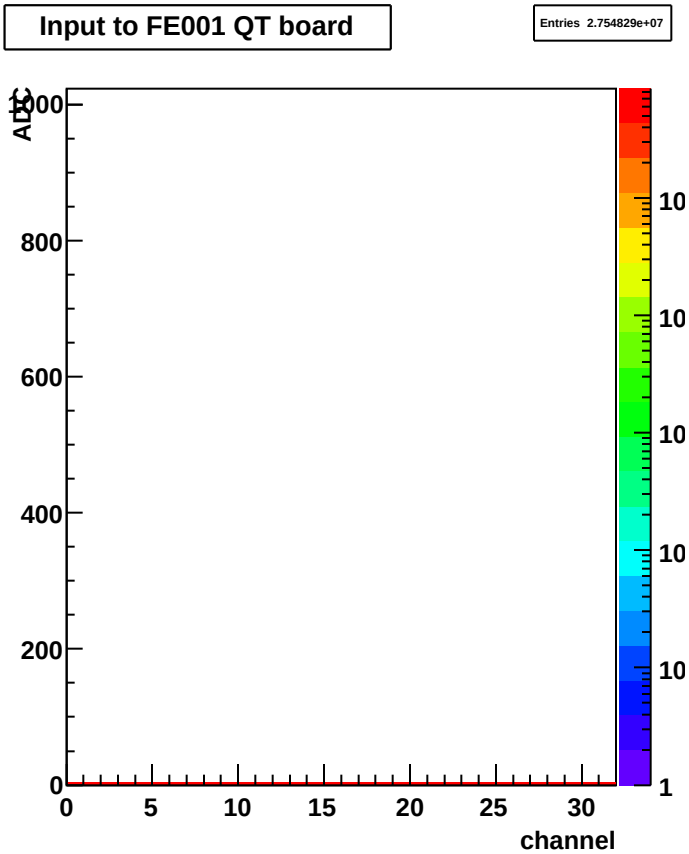

Input to FPD L2 DSM
Entries 2582652
CL bits
860884
860884
860884
SMALL
LARGE-S
LARGE-N

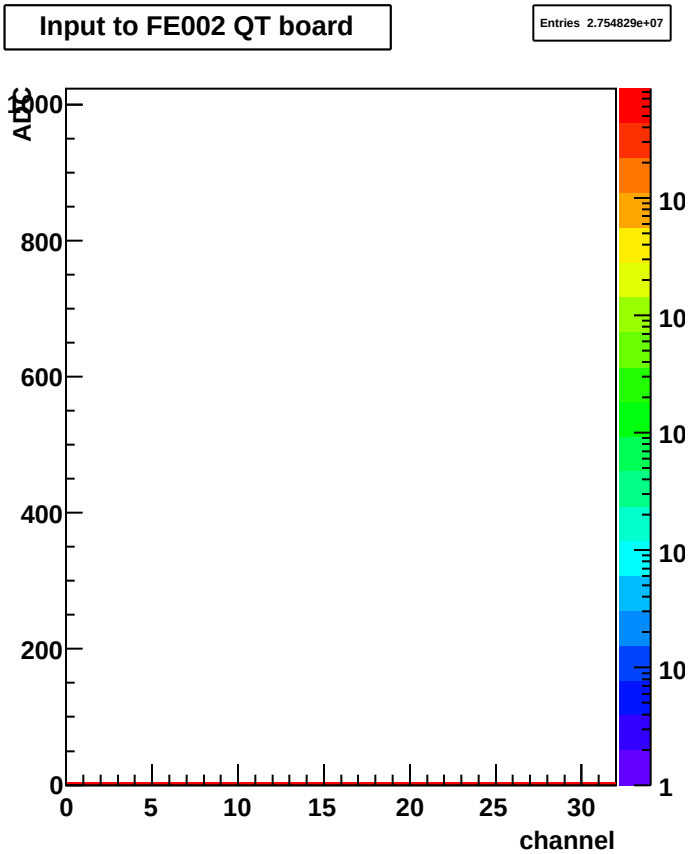

Input to FPD L2 DSM
Entries 2582652
CL bits - simulated
860884
860884
860884
SMALL
LARGE-S
LARGE-N

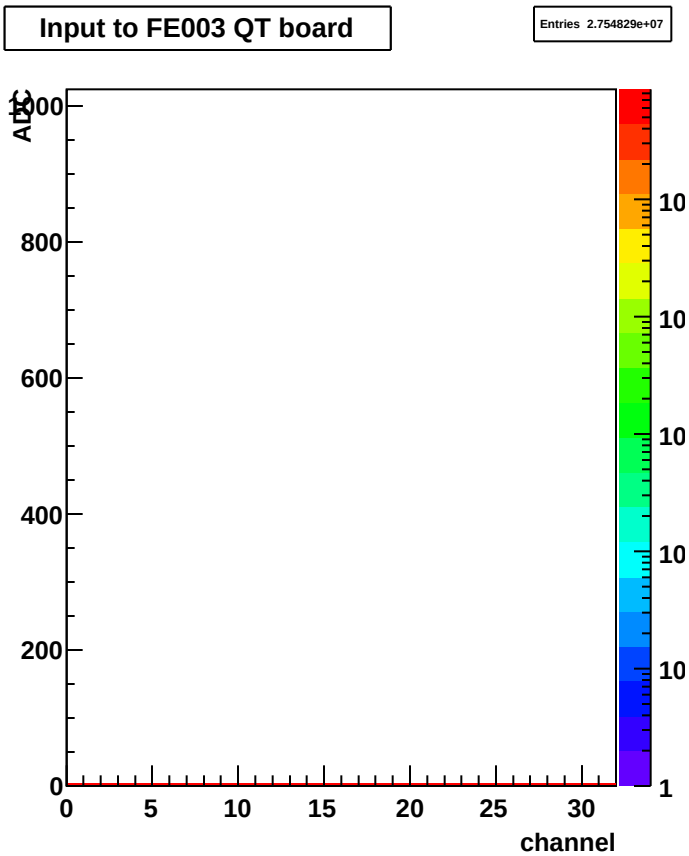

Input to FPD L2 DSM
Entries 2582652
HT bits
860884
860884
860884
SMALL
LARGE-S
LARGE-N

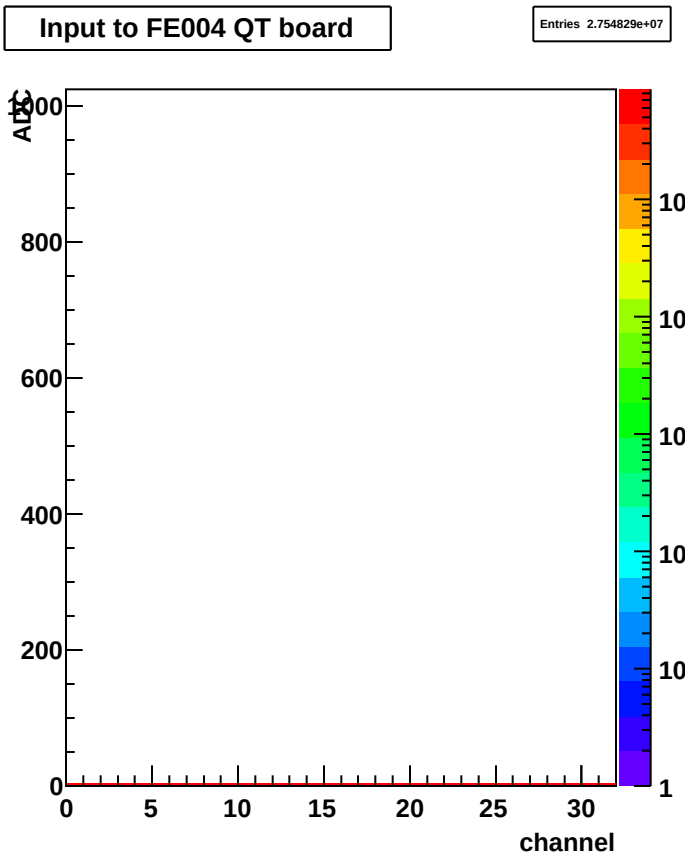

Input to FPD L2 DSM
Entries 2582652
HT bits - simulated
860884
860884
860884
SMALL
LARGE-S
LARGE-N

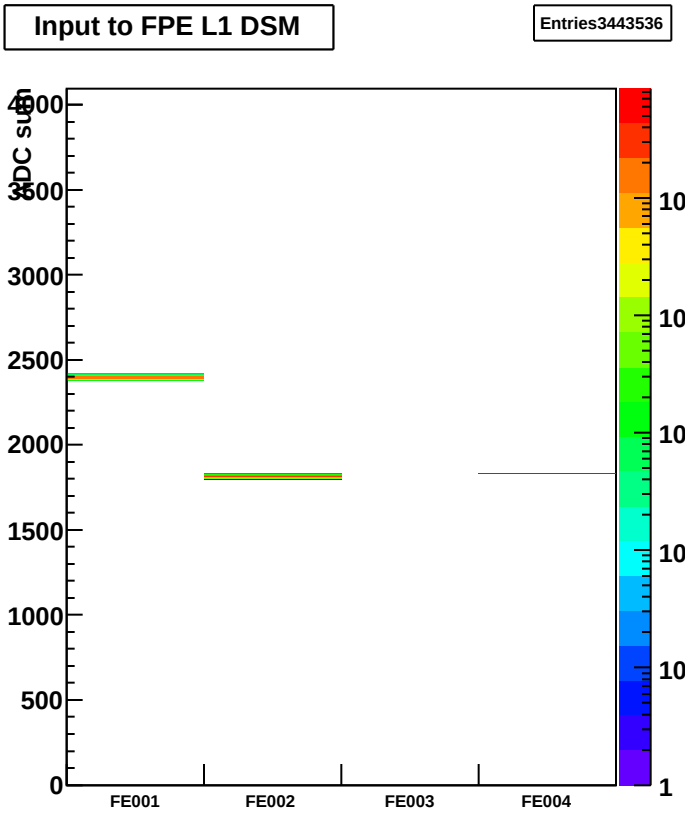

Input to FPD L2 DSM
Entries 5165304
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

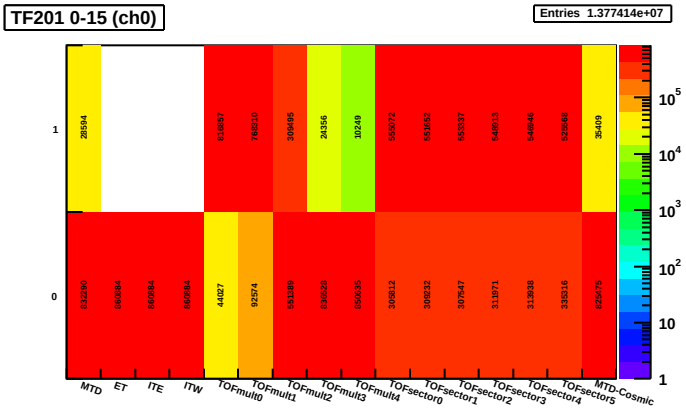

Input to FE001 QT board
Entries 2.754829e+07
ADC
channel

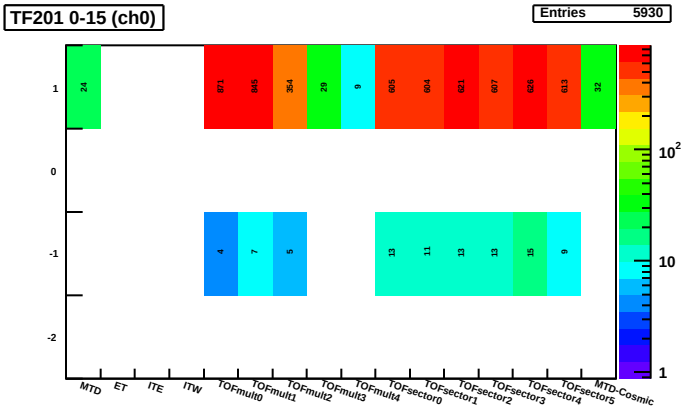

Input to FE002 QT board
Entries 2.754829e+07
ADC
channel

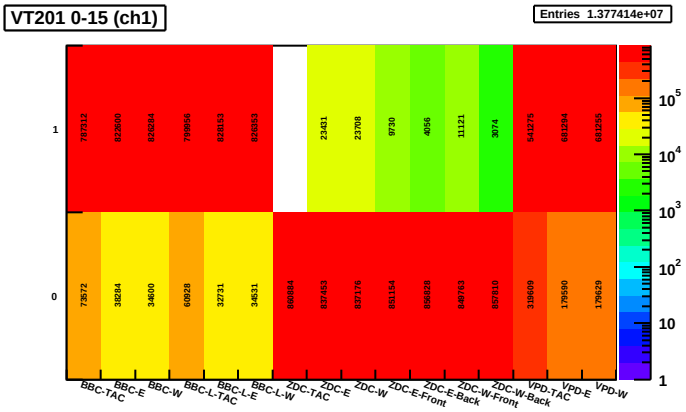

Input to FE003 QT board
Entries 2.754829e+07
ADC
channel

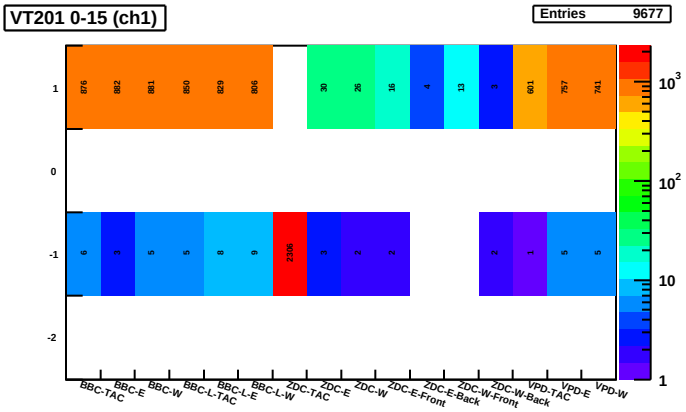

Input to FE004 QT board
Entries 2.754829e+07
ADC
channel


Input to FPE L1 DSM
Entries3443536
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 1.377414e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 5930
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.377414e+07
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 9677
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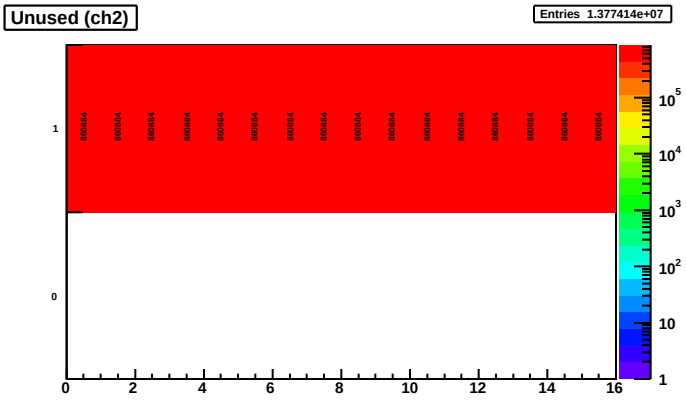
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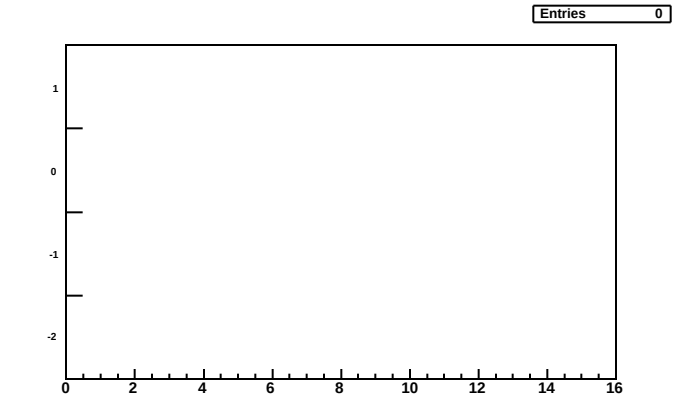
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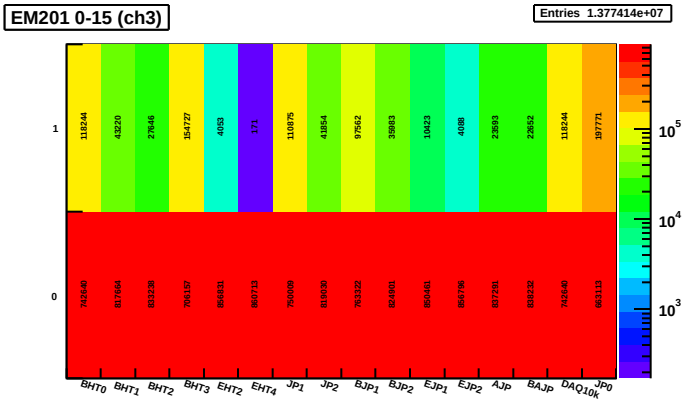
EM201 0-15 (ch3)
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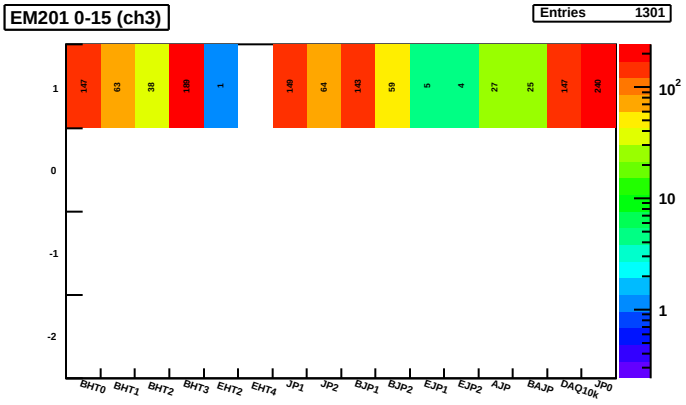
EM201 0-15 (ch3)
Entries 1301
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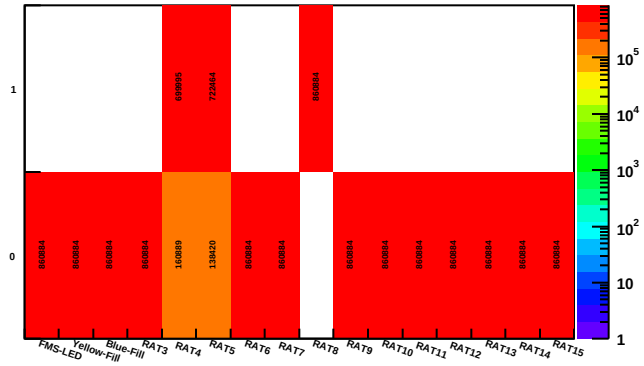
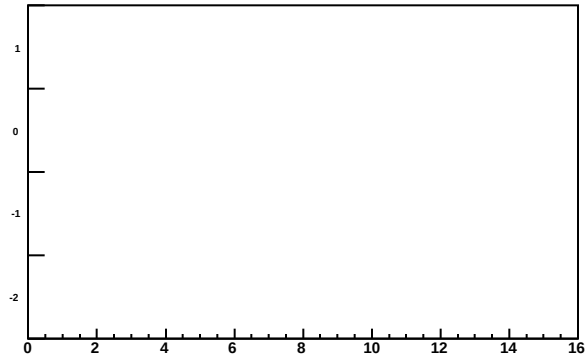
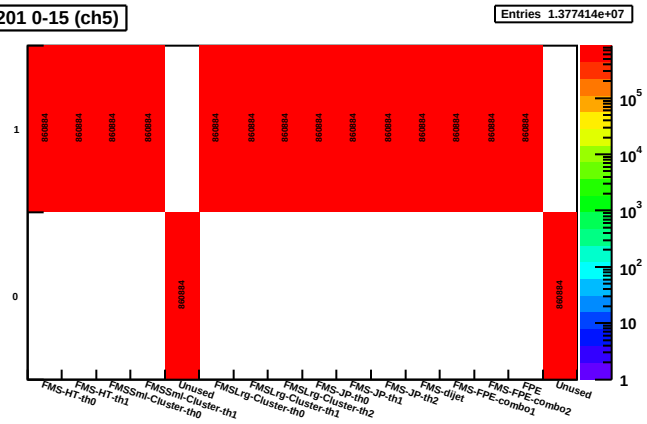
RAT board (ch4)





FP201 0-15 (ch5)



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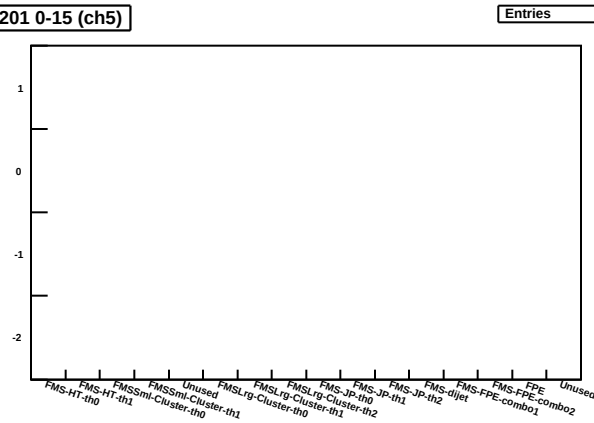
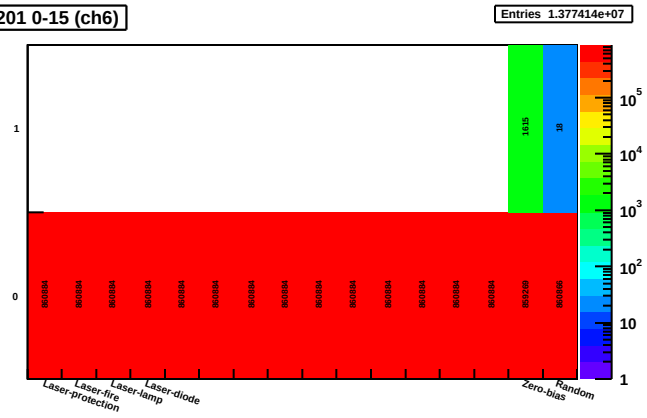
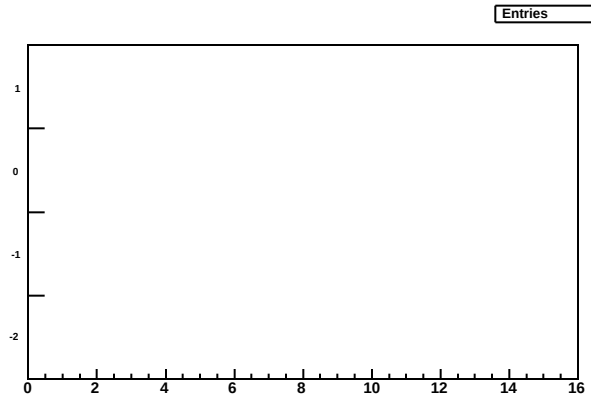
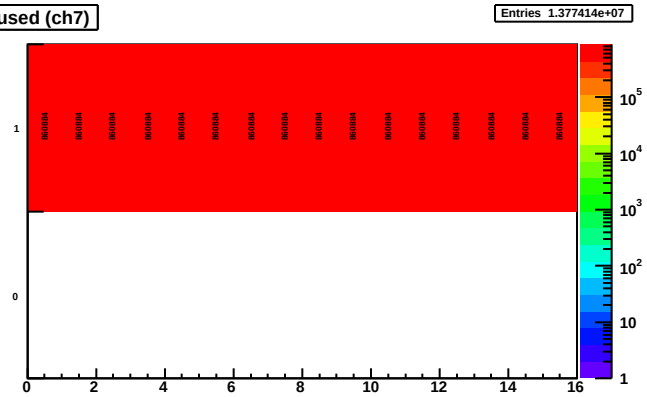
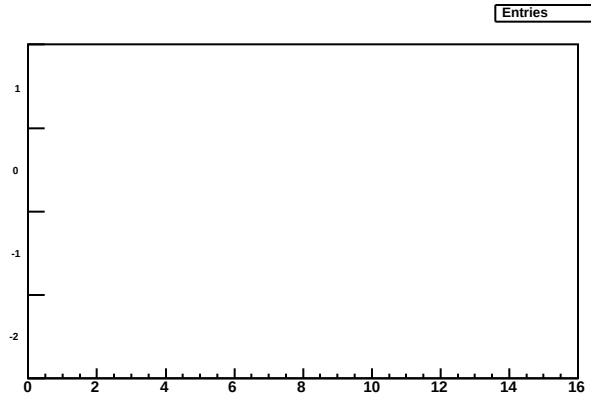


ST201 0-15 (ch6)





Unused (ch7)