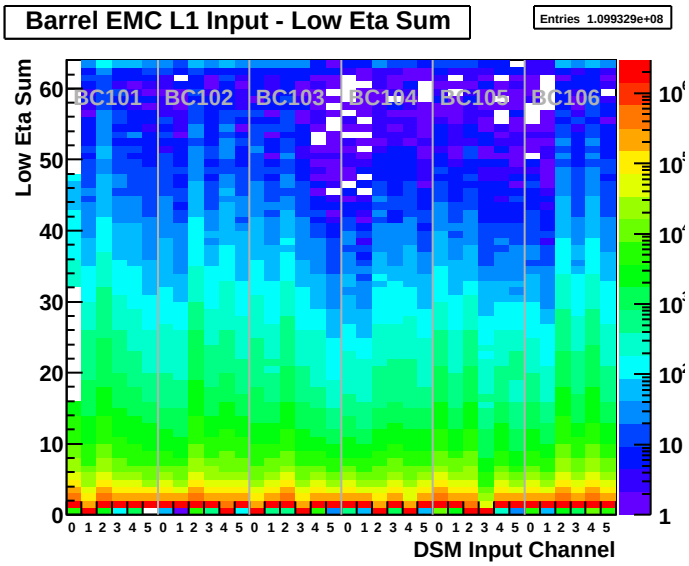
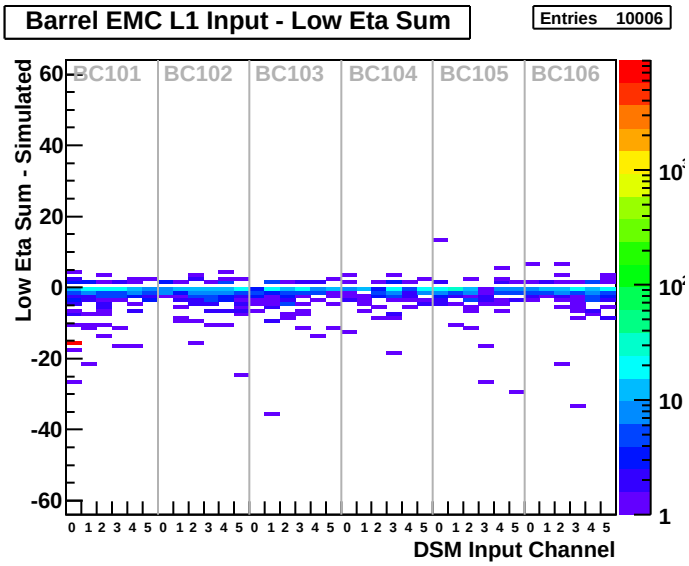
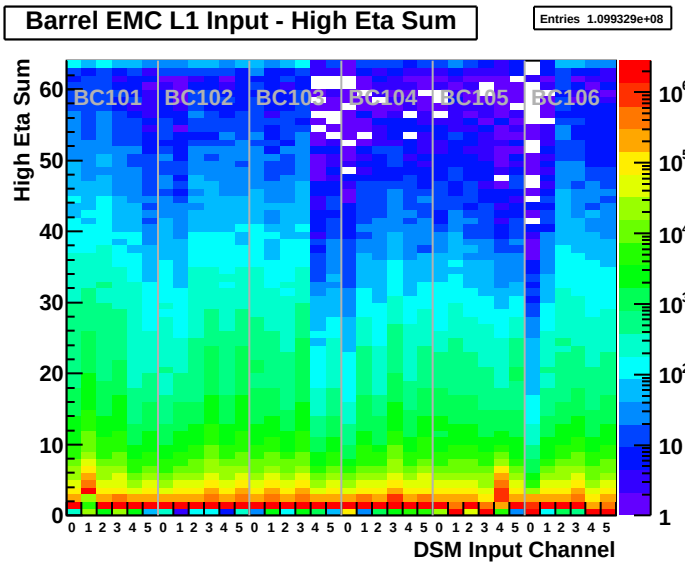
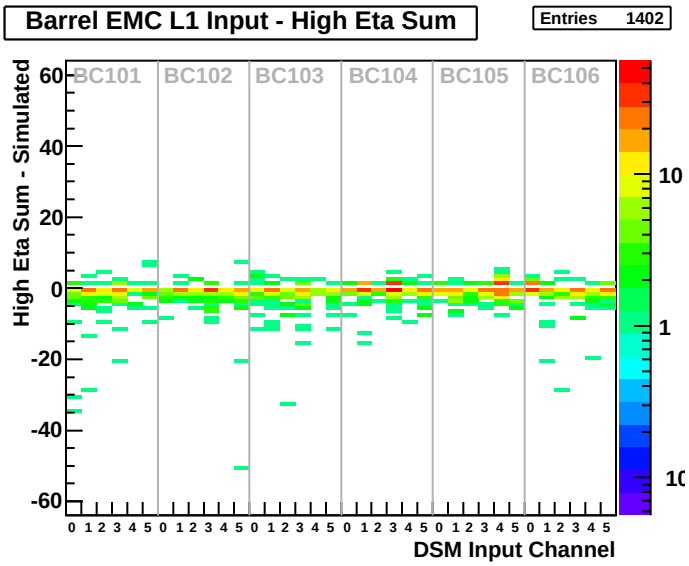
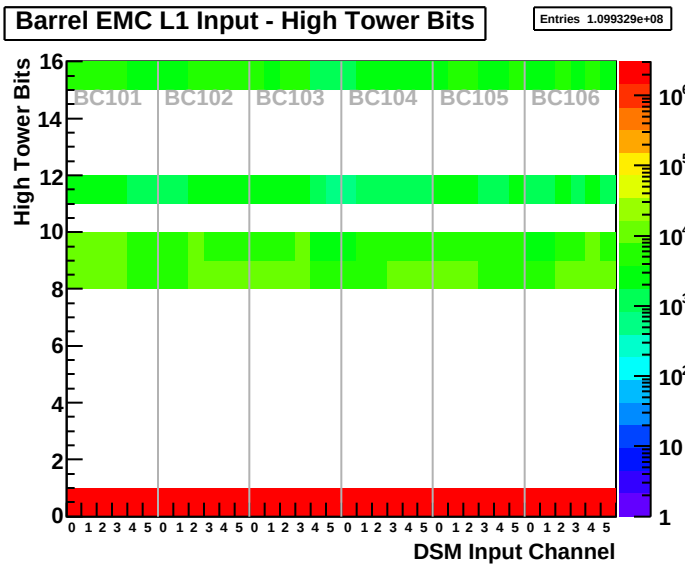
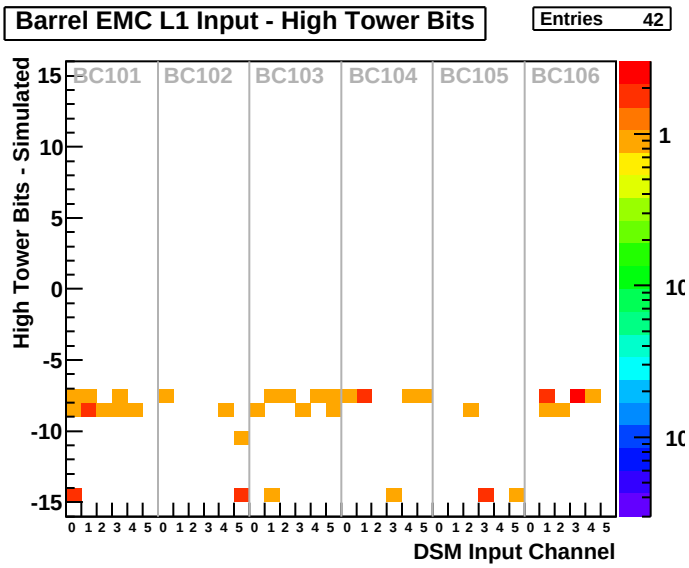

Barrel EMC L1 Input - Low Eta Sum
Entries 1.099329e+08
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

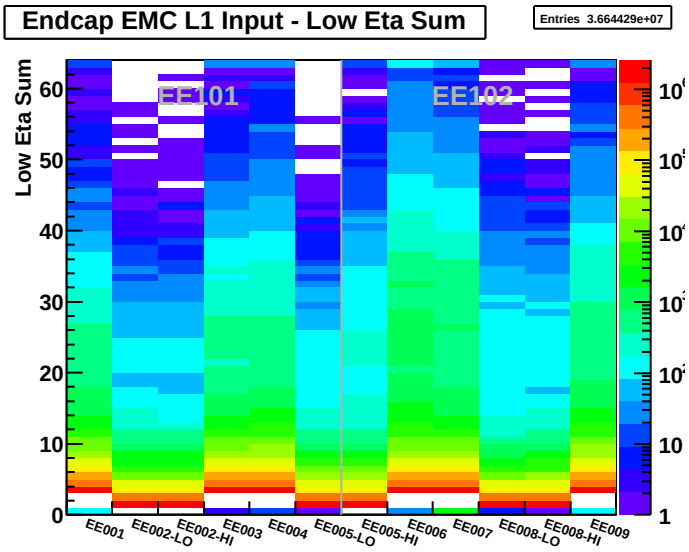

Barrel EMC L1 Input - Low Eta Sum
Entries 10006
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

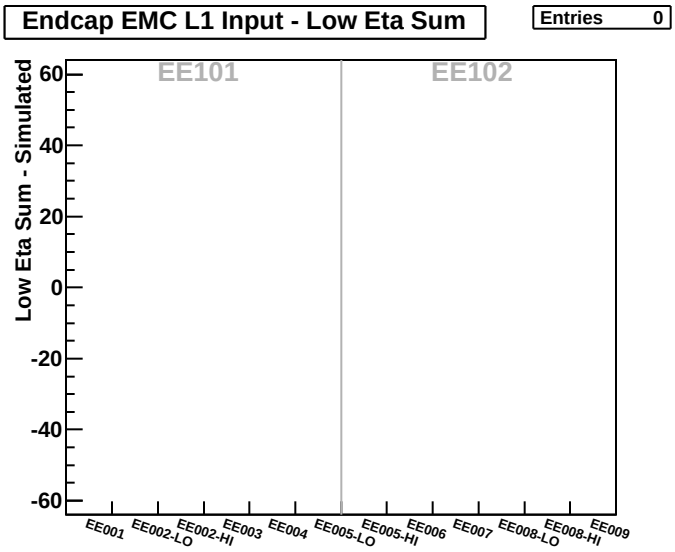

Barrel EMC L1 Input - High Eta Sum
Entries 1.099329e+08
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

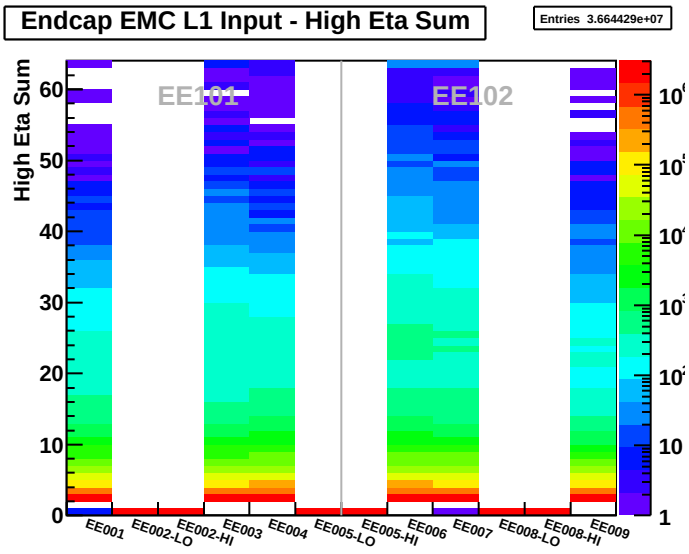

Barrel EMC L1 Input - High Eta Sum
Entries 1402
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

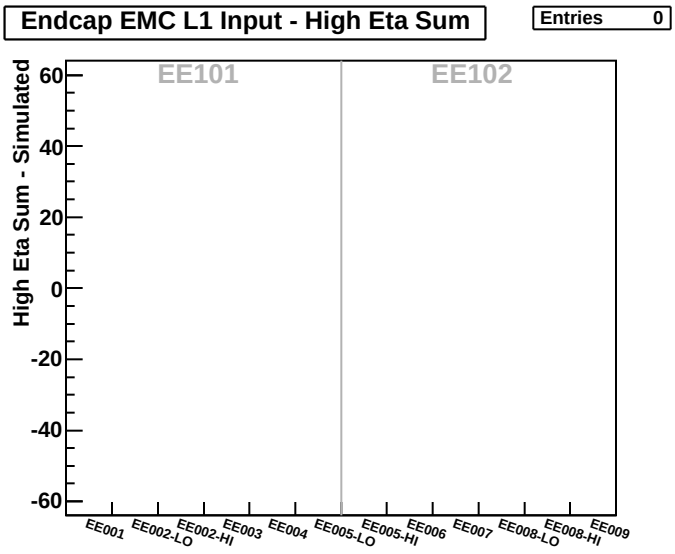

Barrel EMC L1 Input - High Tower Bits
Entries 1.099329e+08
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

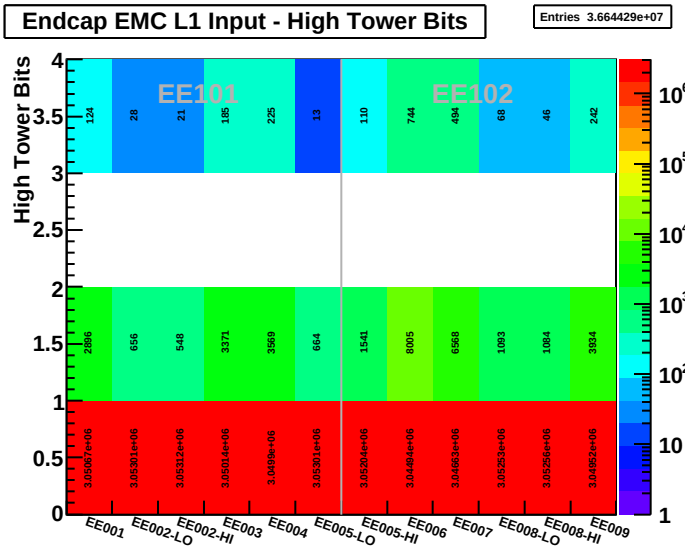

Barrel EMC L1 Input - High Tower Bits
Entries 42
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

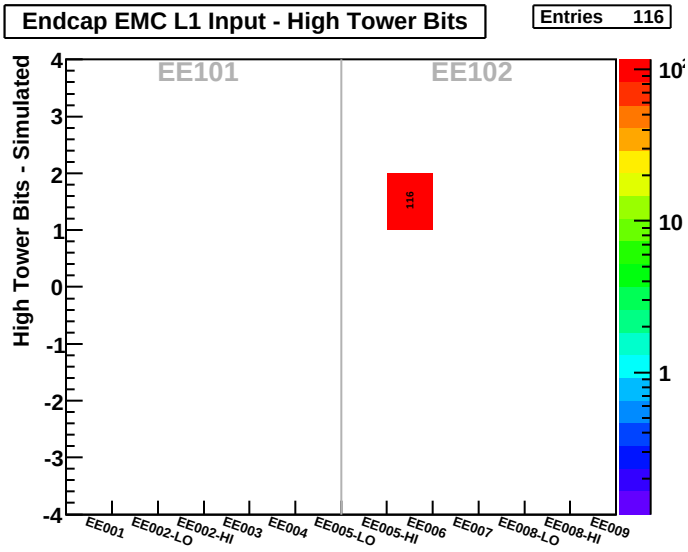

Endcap EMC L1 Input - Low Eta Sum
Entries 3.664429e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

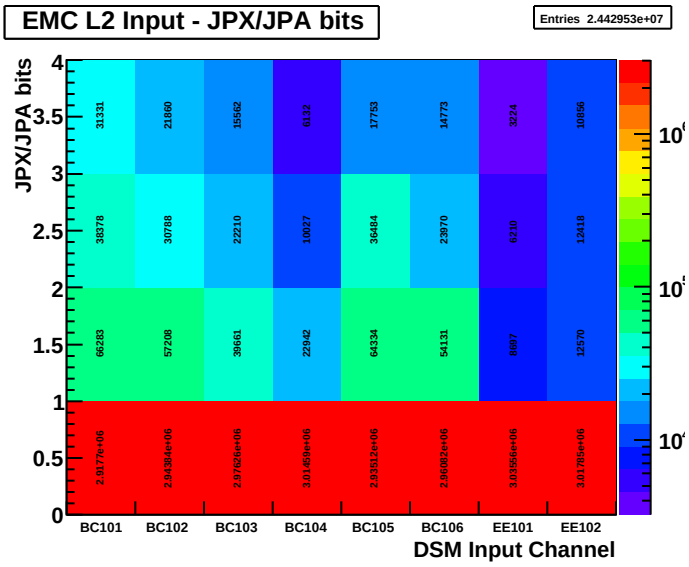

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

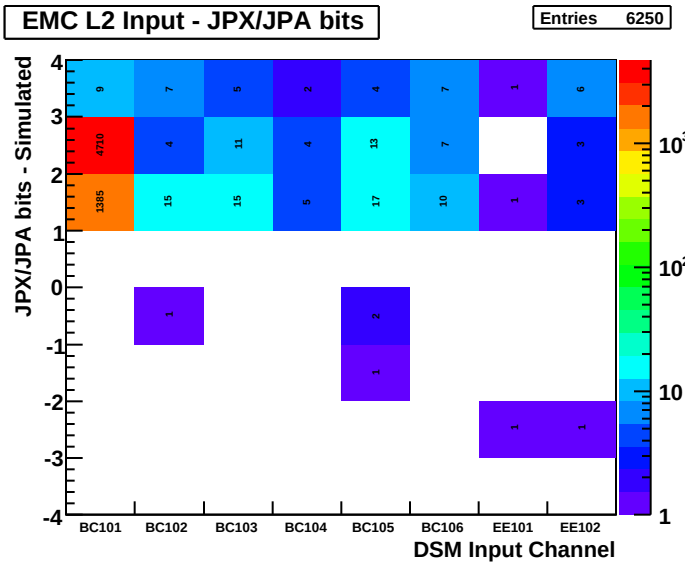

Endcap EMC L1 Input - High Eta Sum
Entries 3.664429e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

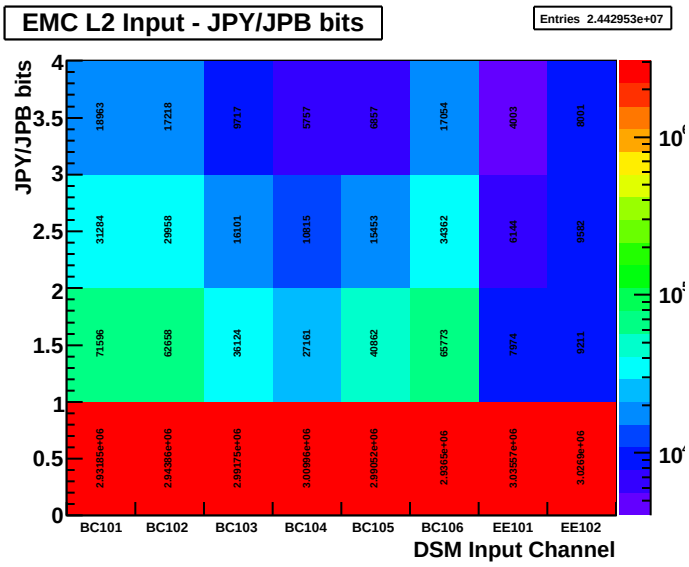

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

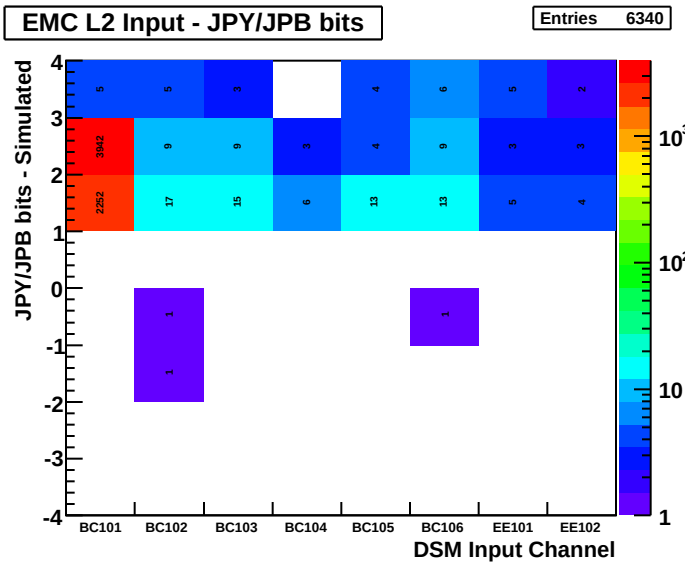

Endcap EMC L1 Input - High Tower Bits
Entries 3.664429e+07
High Tower Bits
EE101
EE102
124 28 21 185 225 13 110 744 494 68 46 242
2896 656 548 3371 3969 664 1541 8005 6568 1093 1084 3934
3.05067e+06 3.05301e+06 3.05312e+06 3.05014e+06 3.0499e+06 3.05301e+06 3.05204e+06 3.04494e+06 3.04663e+06 3.05253e+06 3.05256e+06 3.04952e+06
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

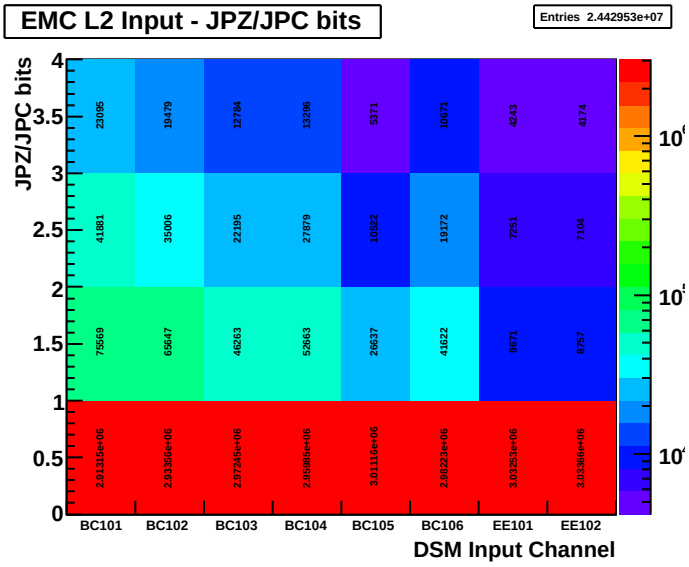

Endcap EMC L1 Input - High Tower Bits
Entries 116
High Tower Bits - Simulated
EE101
EE102
116
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

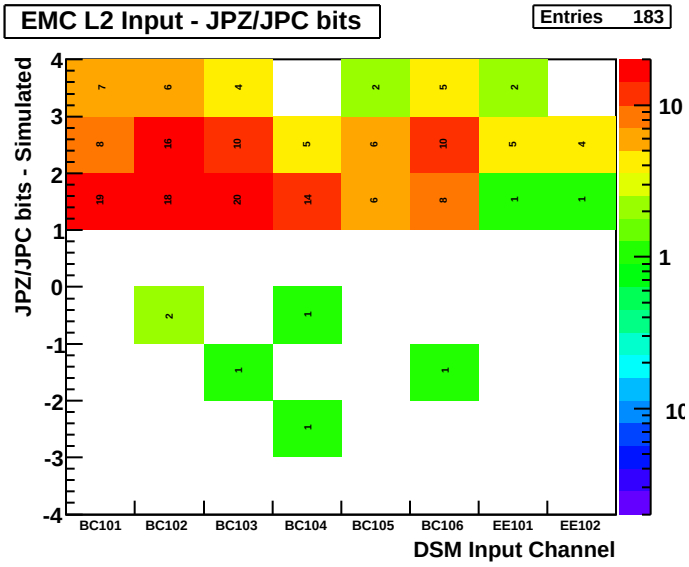

EMC L2 Input - JPX/JPA bits
Entries 2.442953e+07
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

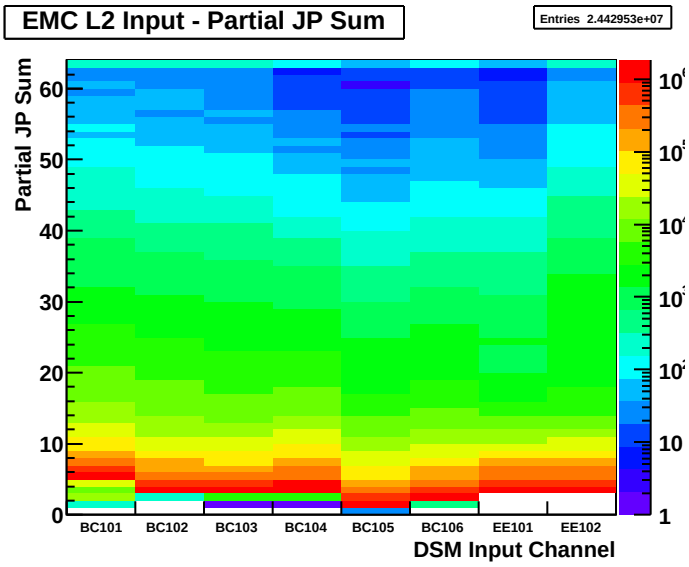

EMC L2 Input - JPX/JPA bits
Entries 6250
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

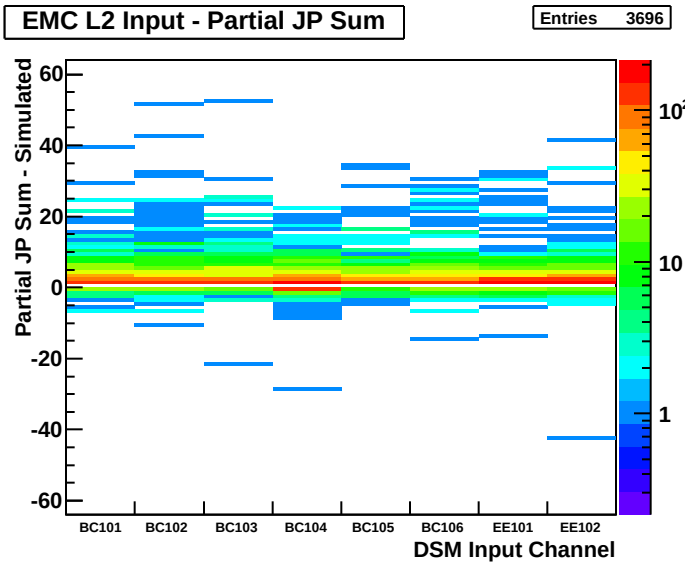

EMC L2 Input - JPY/JPB bits
Entries 2.442953e+07
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

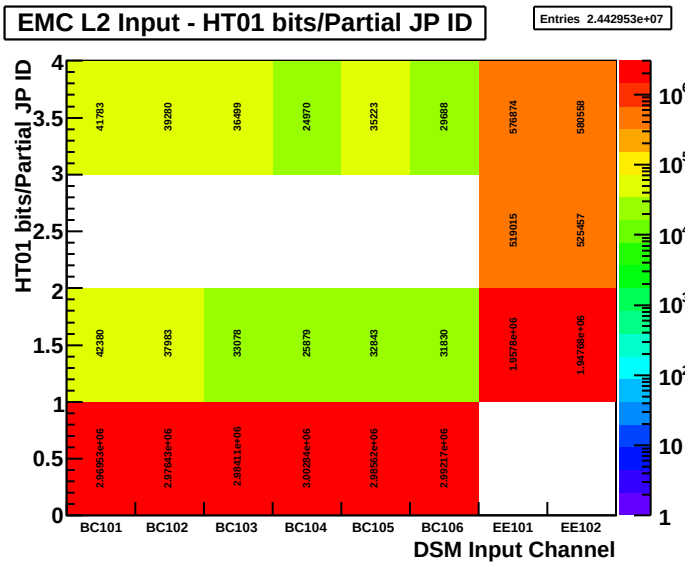

EMC L2 Input - JPY/JPB bits
Entries 6340
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

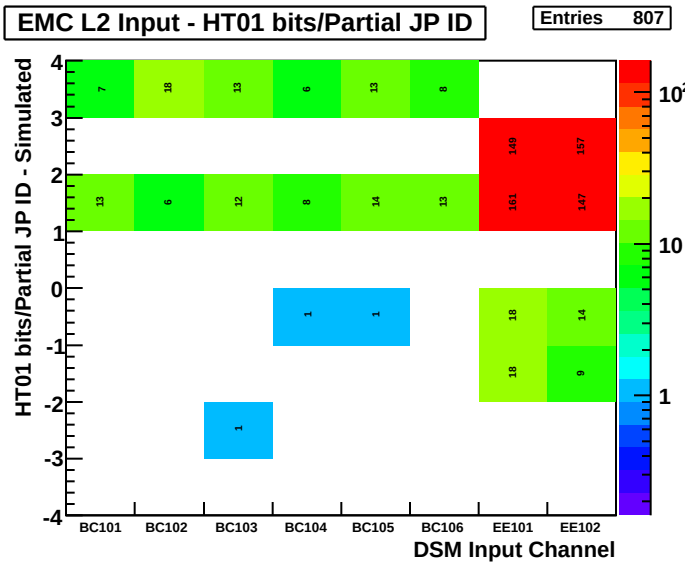

EMC L2 Input - JPZ/JPC bits
Entries 2.442953e+07
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

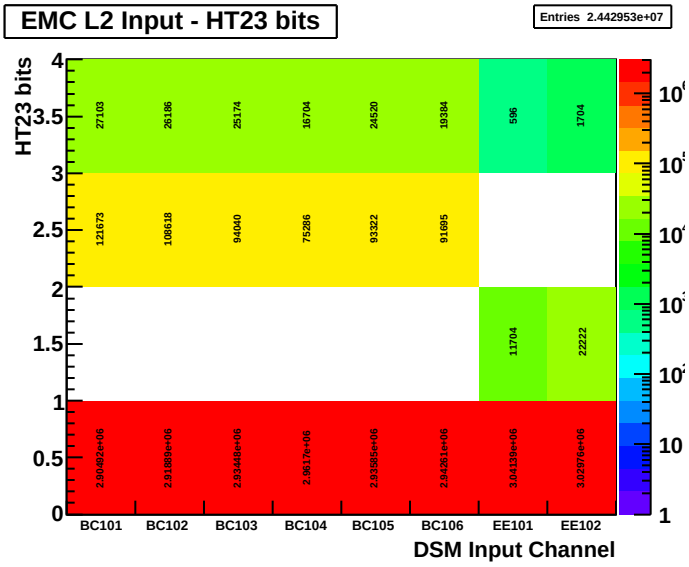

EMC L2 Input - JPZ/JPC bits
Entries 183
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

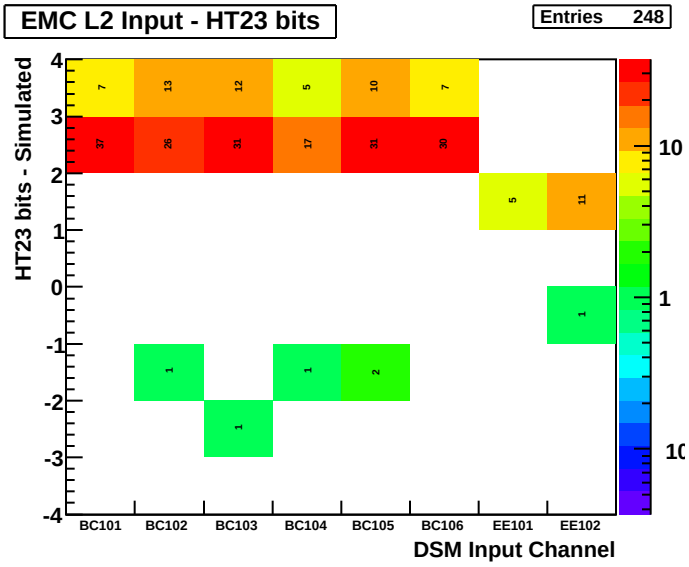

EMC L2 Input - Partial JP Sum
Entries 2.442953e+07
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

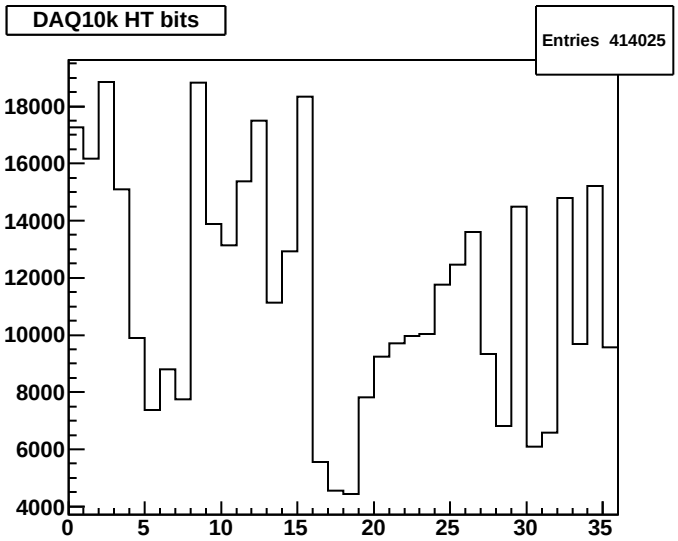

EMC L2 Input - Partial JP Sum
Entries 3696
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

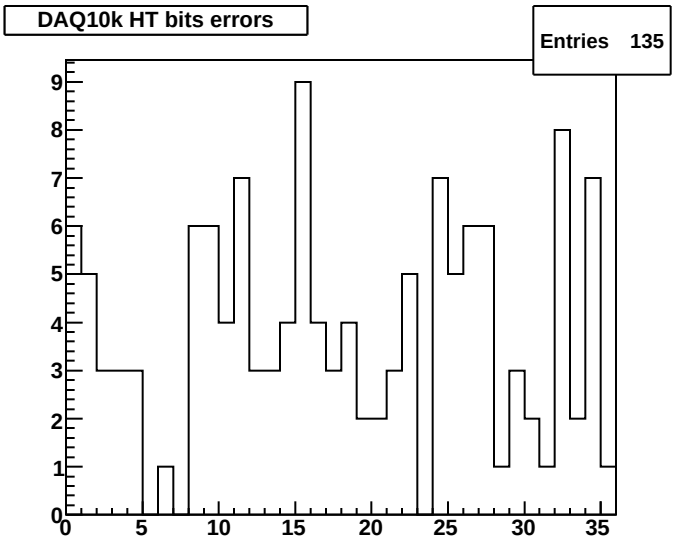

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2.442953e+07
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

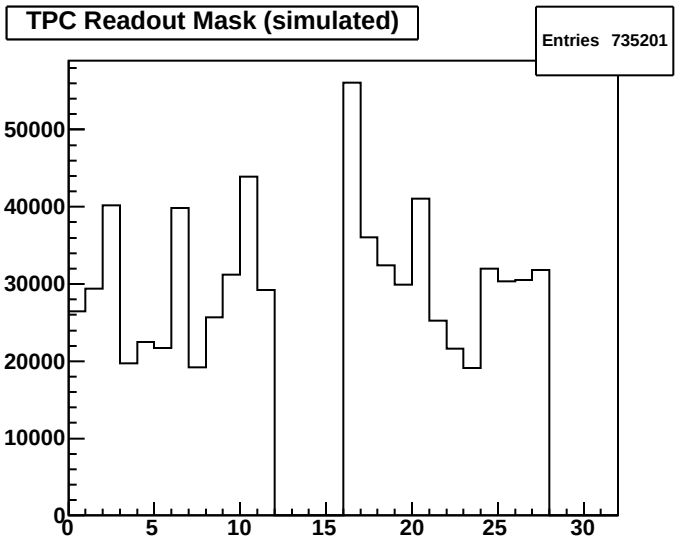

EMC L2 Input - HT01 bits/Partial JP ID
Entries 807
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

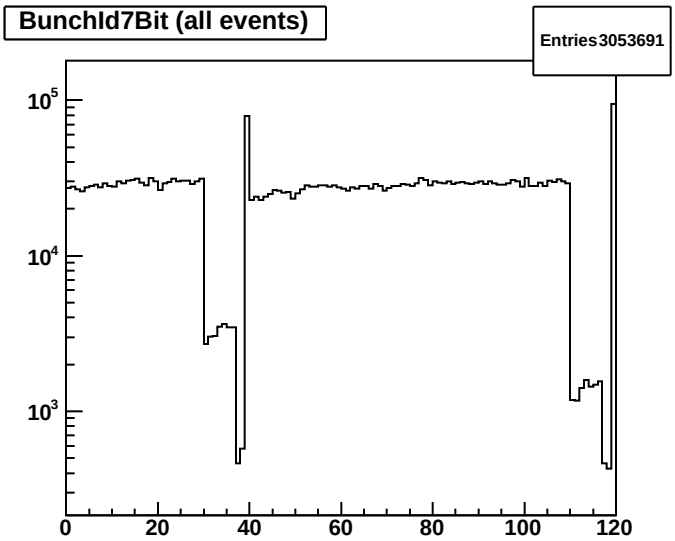

EMC L2 Input - HT23 bits
Entries 2.442953e+07
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

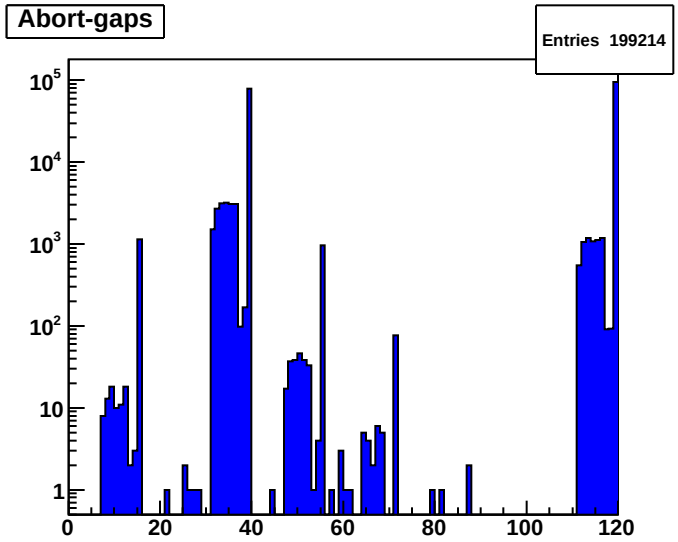

EMC L2 Input - HT23 bits
Entries 248
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

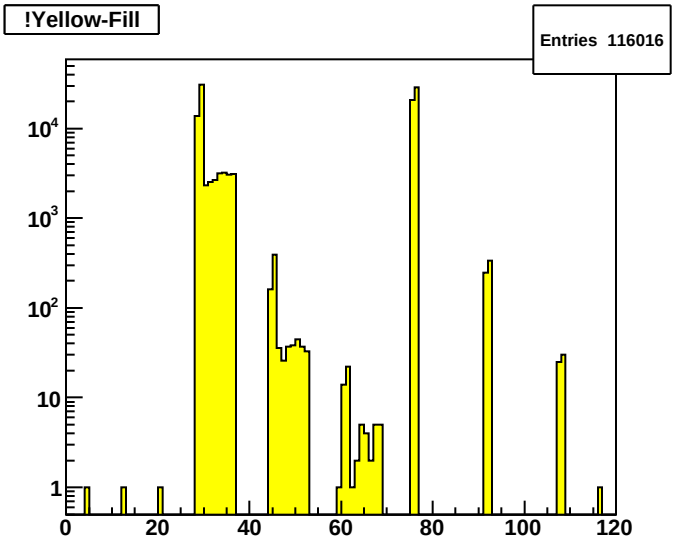

DAQ10k HT bits
Entries 414025

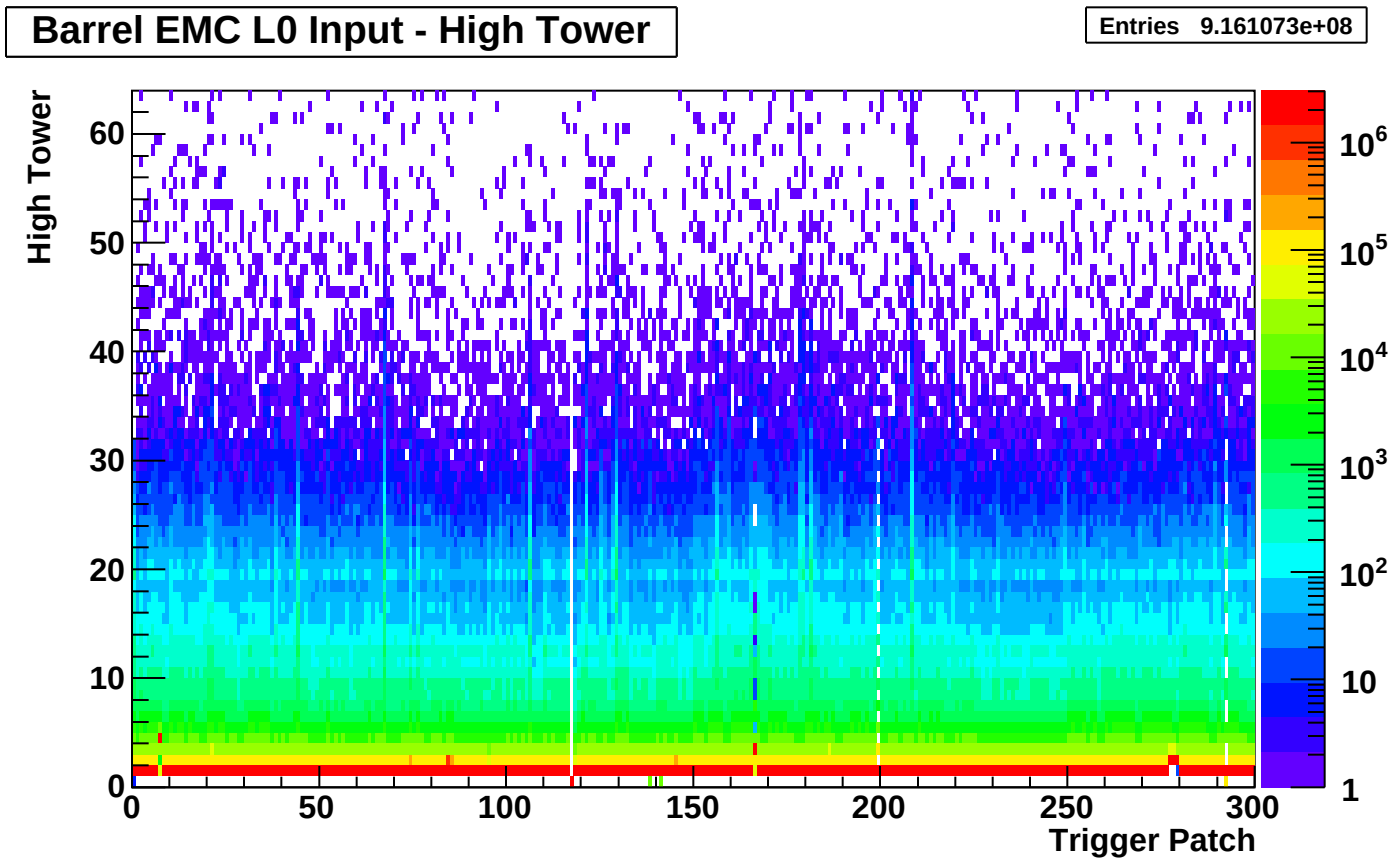

DAQ10k HT bits errors
Entries 135

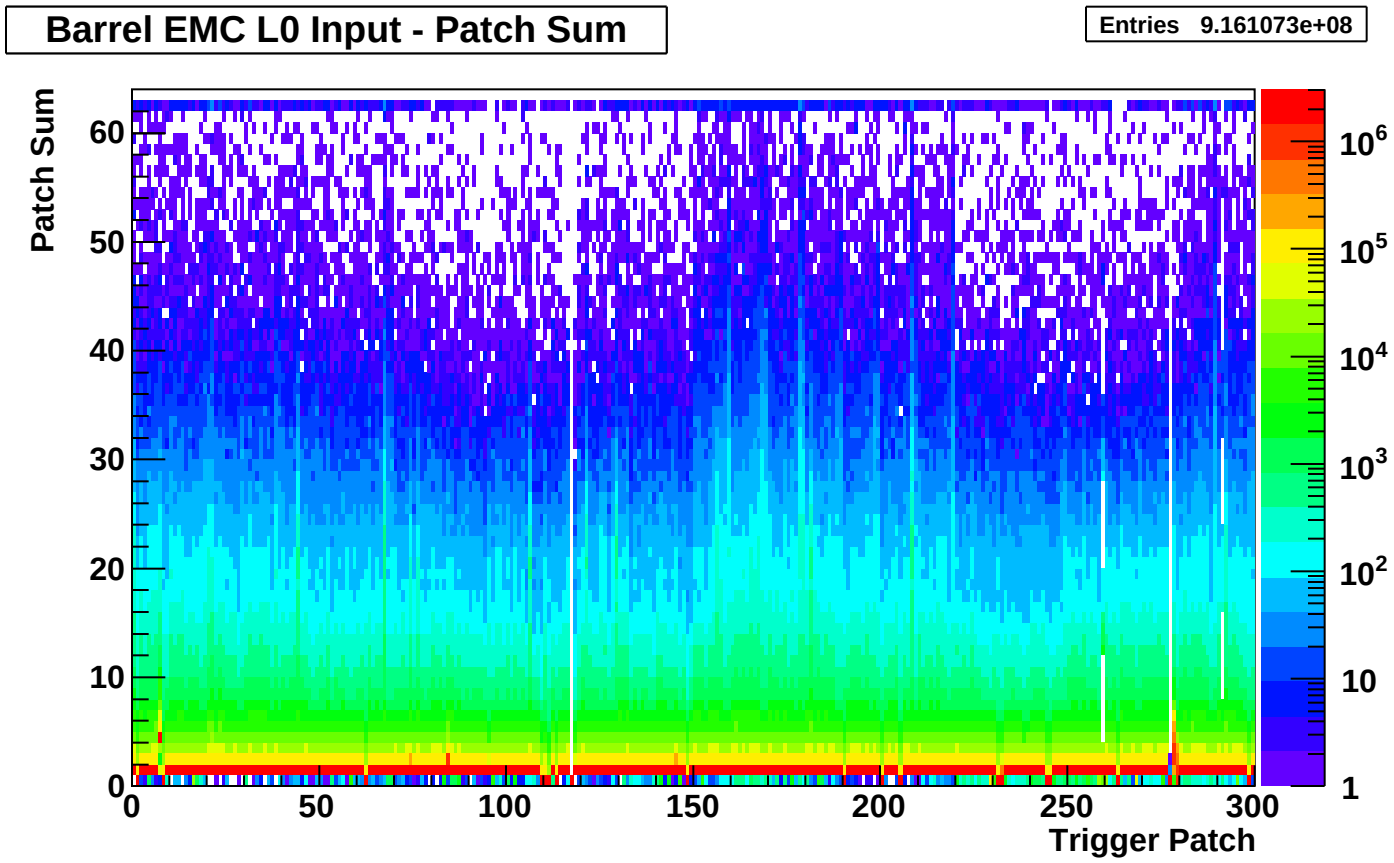

TPC Readout Mask (simulated)
Entries 735201

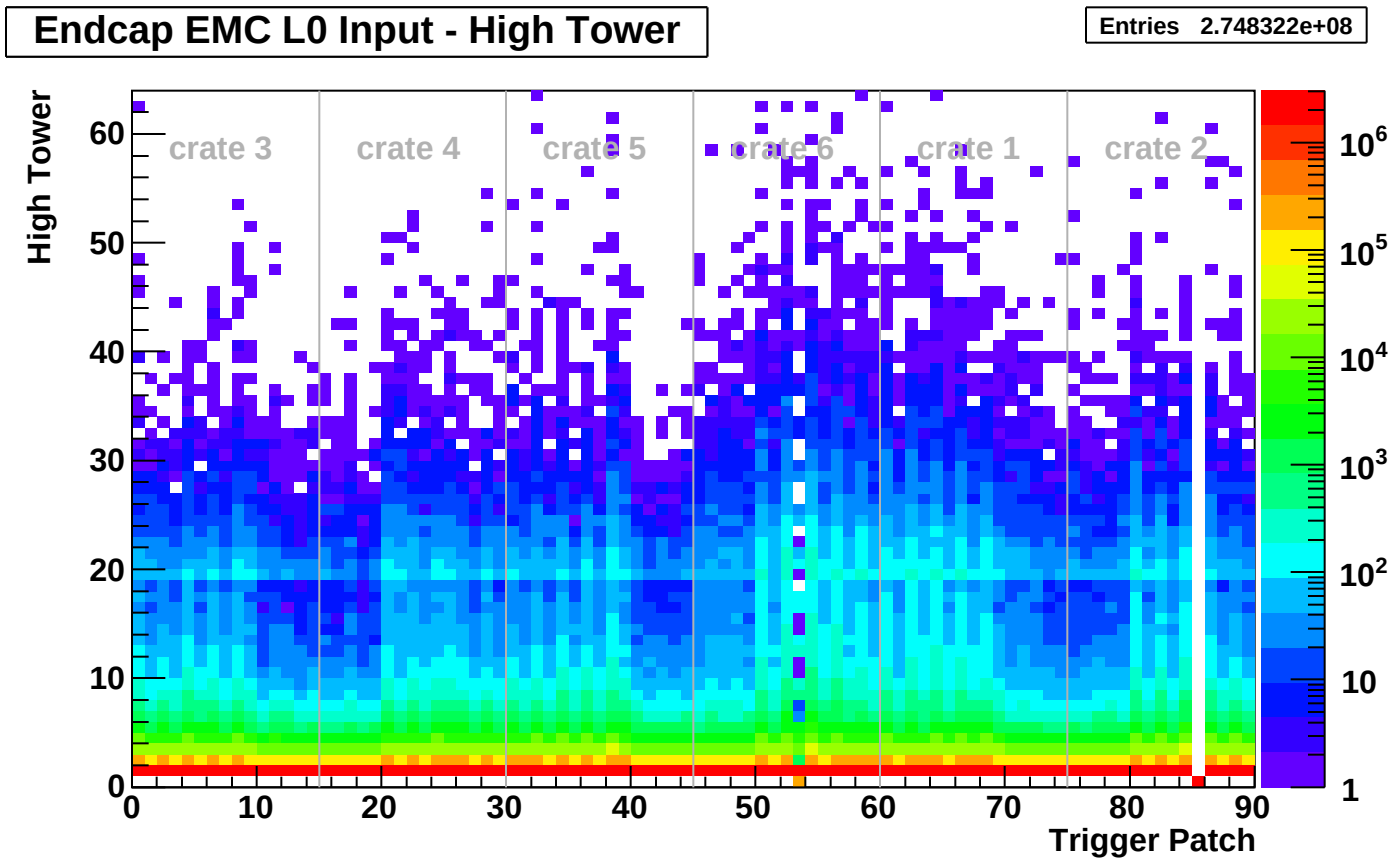

BunchId7Bit (all events)
Entries 3053691

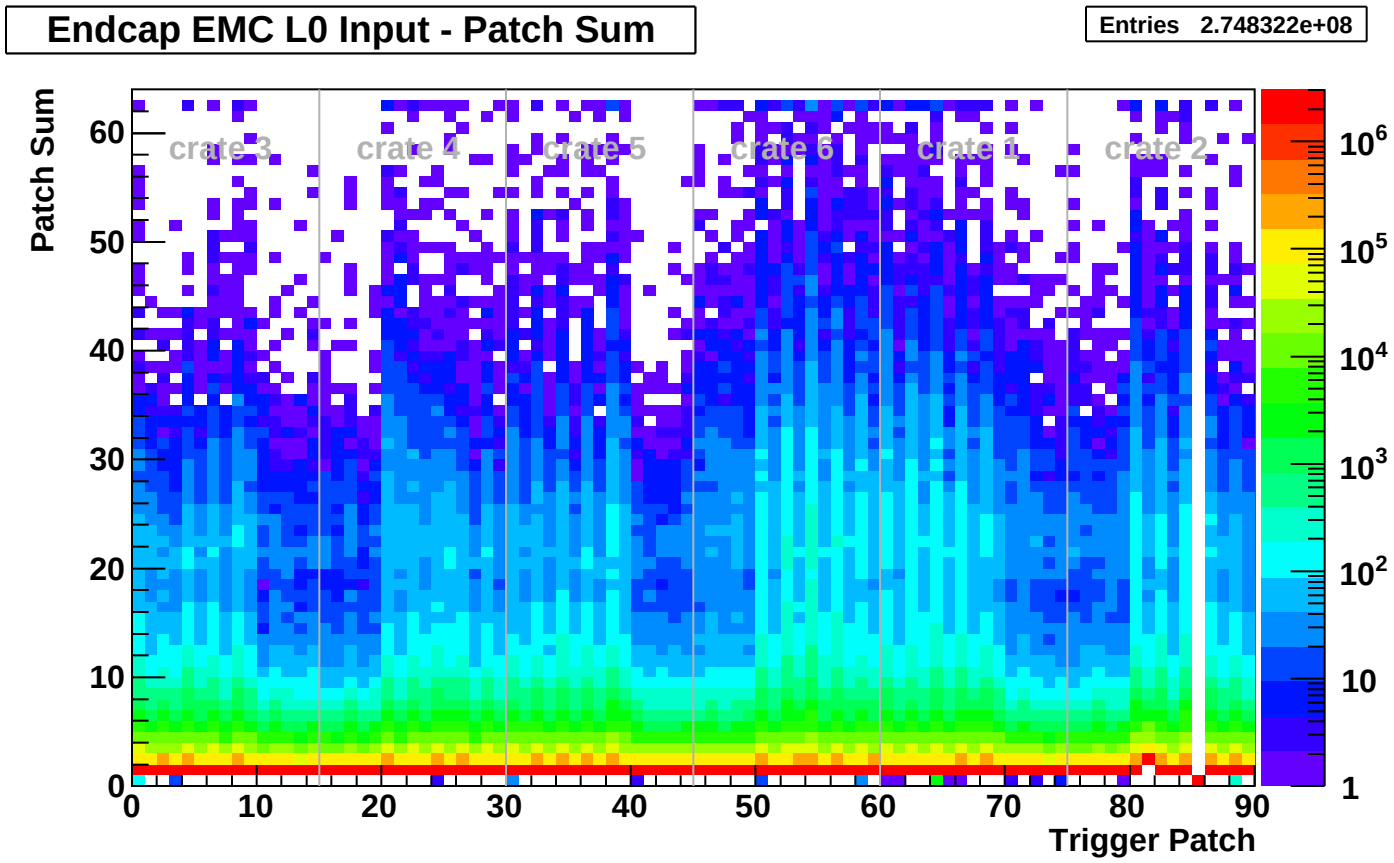

Abort-gaps
Entries 199214

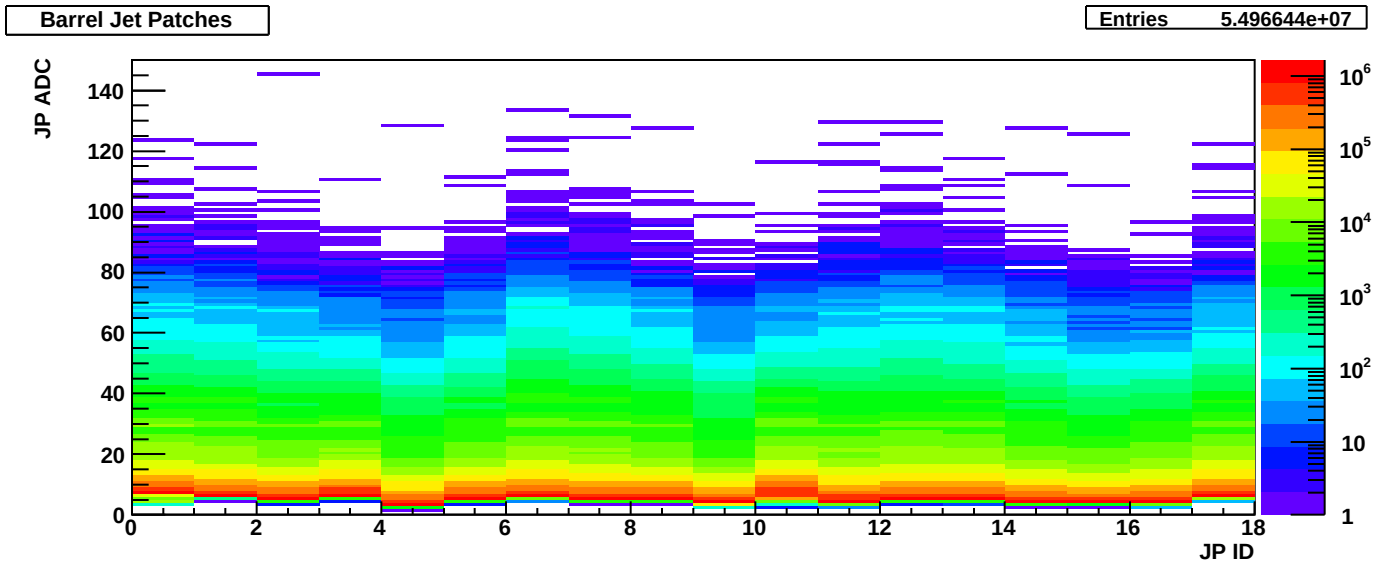

!Yellow-Fill
Entries 116016

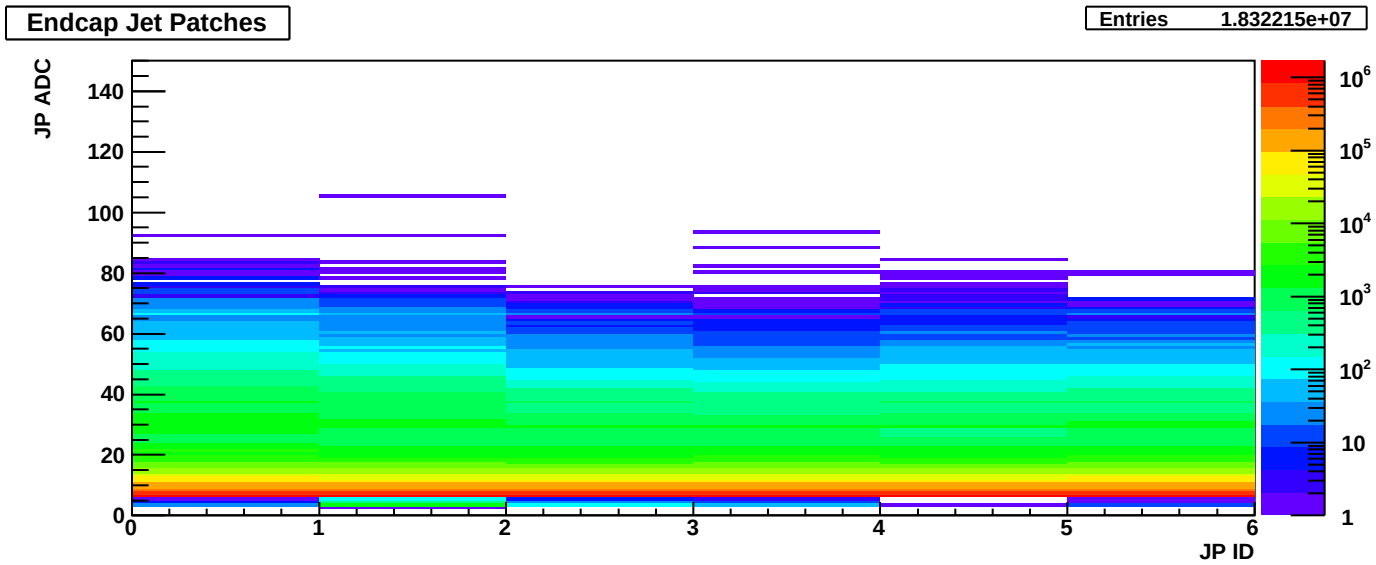

Barrel EMC L0 Input - High Tower
Entries 9.161073e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

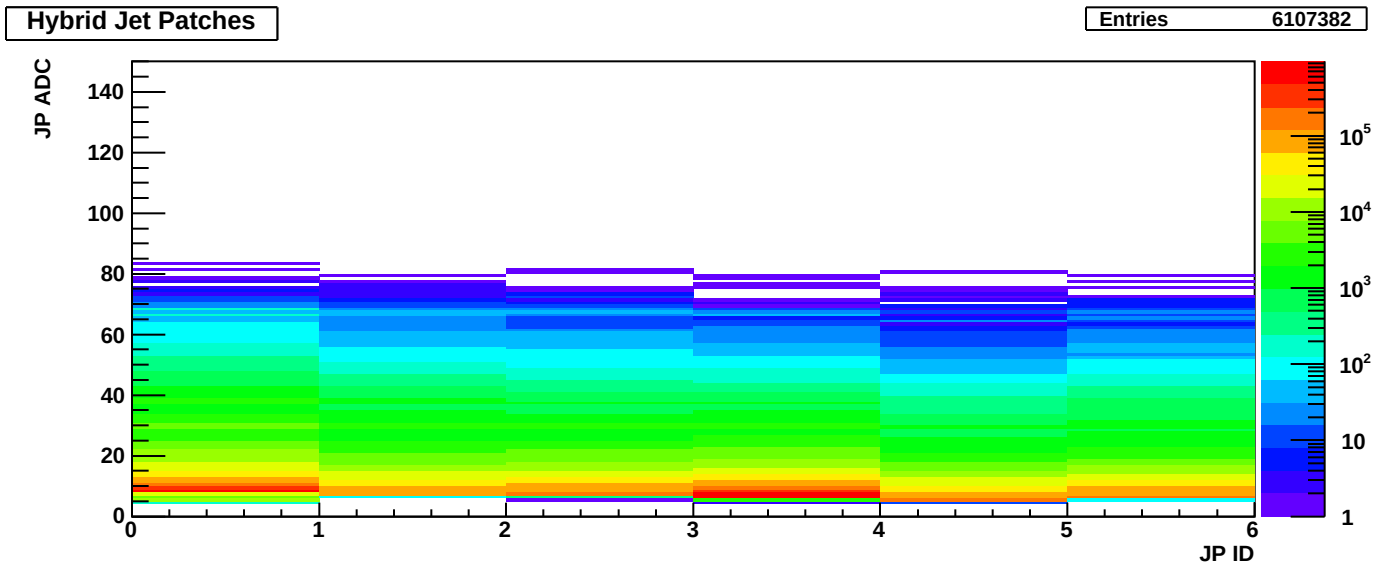

Barrel EMC L0 Input - Patch Sum
Entries 9.161073e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

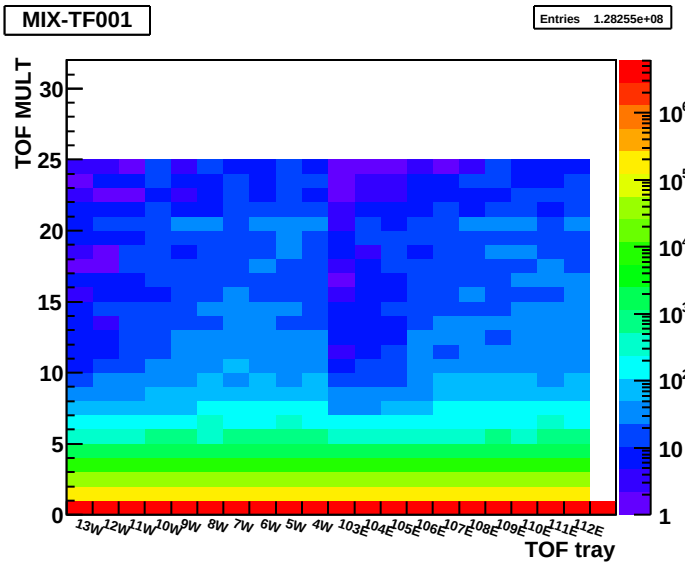

Endcap EMC L0 Input - High Tower
Entries 2.748322e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

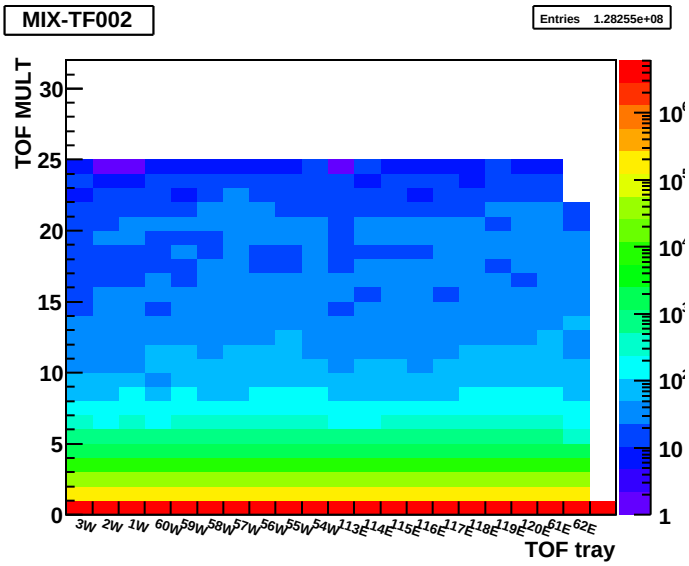

Endcap EMC L0 Input - Patch Sum
Entries 2.748322e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

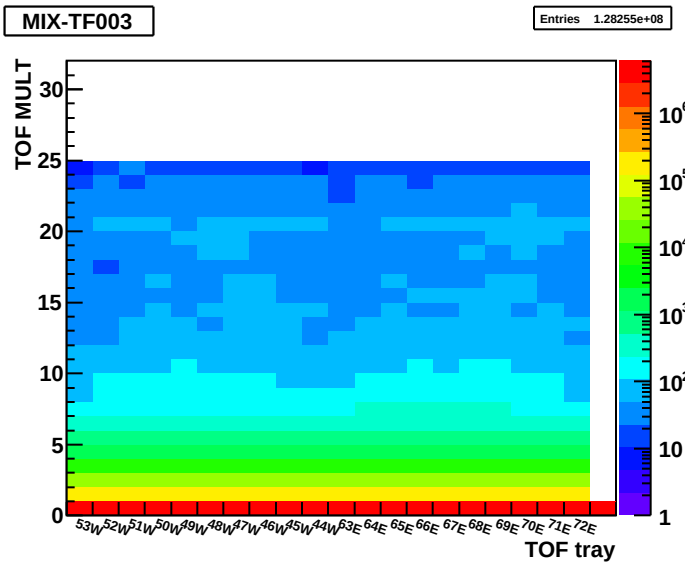

Barrel Jet Patches
Entries 5.496644e+07
JP ADC
JP ID

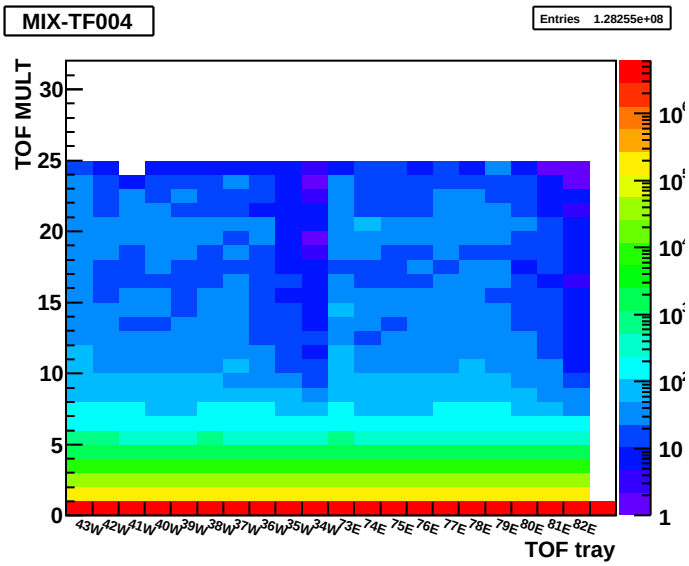

Endcap Jet Patches
Entries 1.832215e+07
JP ADC
JP ID

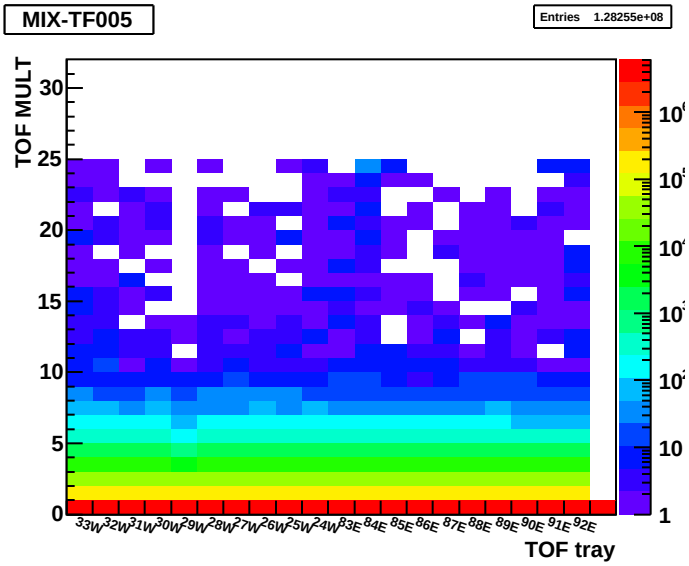

Hybrid Jet Patches
Entries 6107382
JP ADC
JP ID

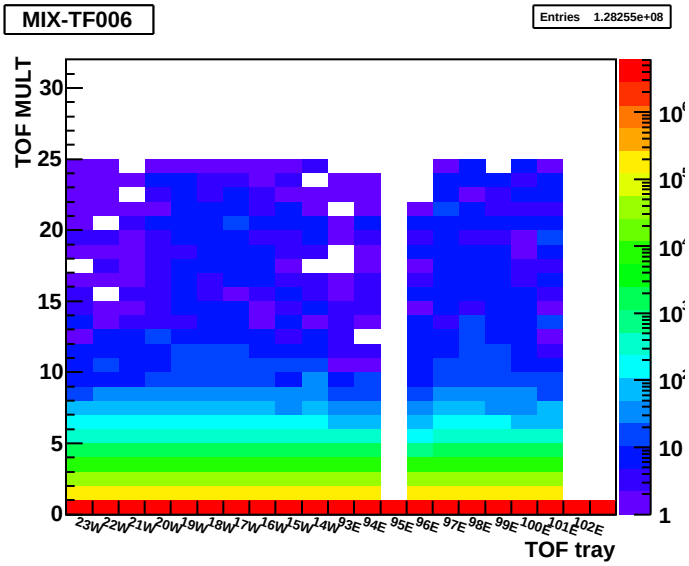

MIX-TF001
Entries 1.28255e+08
TOF MULT
TOF tray

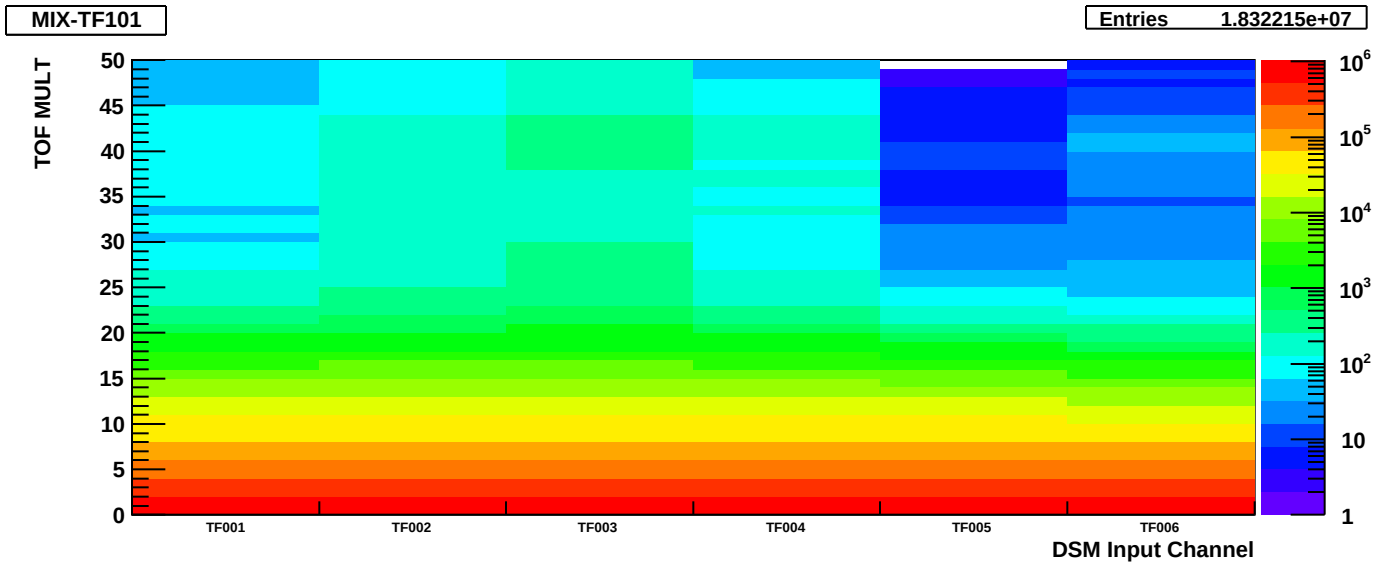

MIX-TF002
Entries 1.28255e+08
TOF MULT
TOF tray

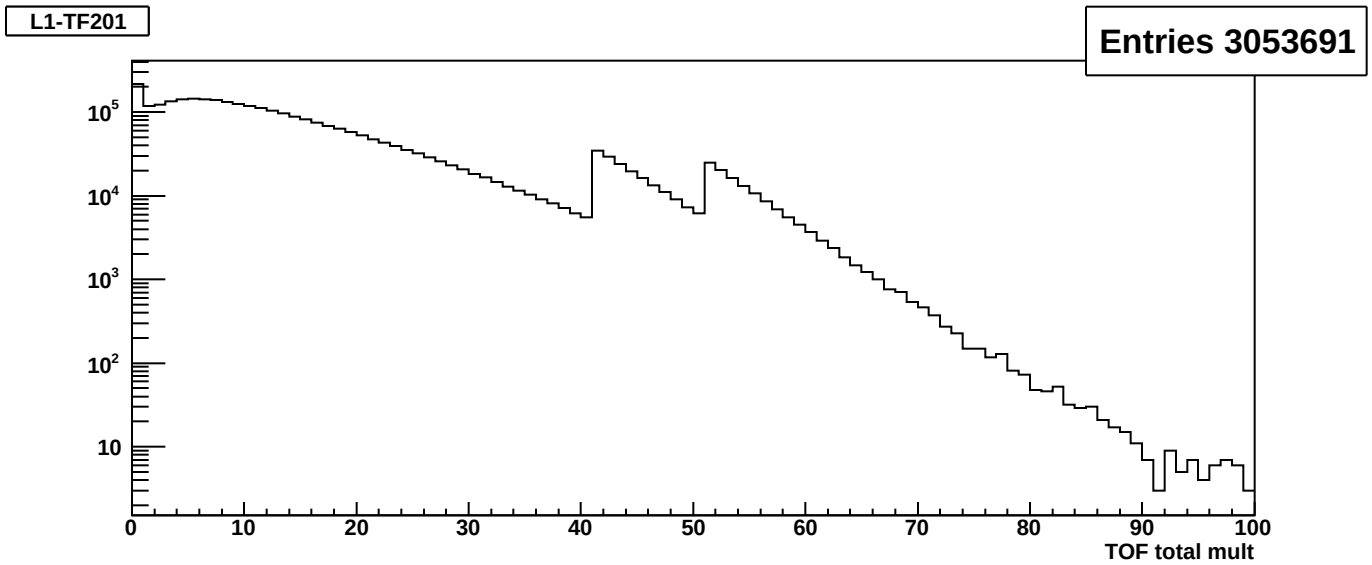

MIX-TF003
Entries 1.28255e+08
TOF MULT
TOF tray

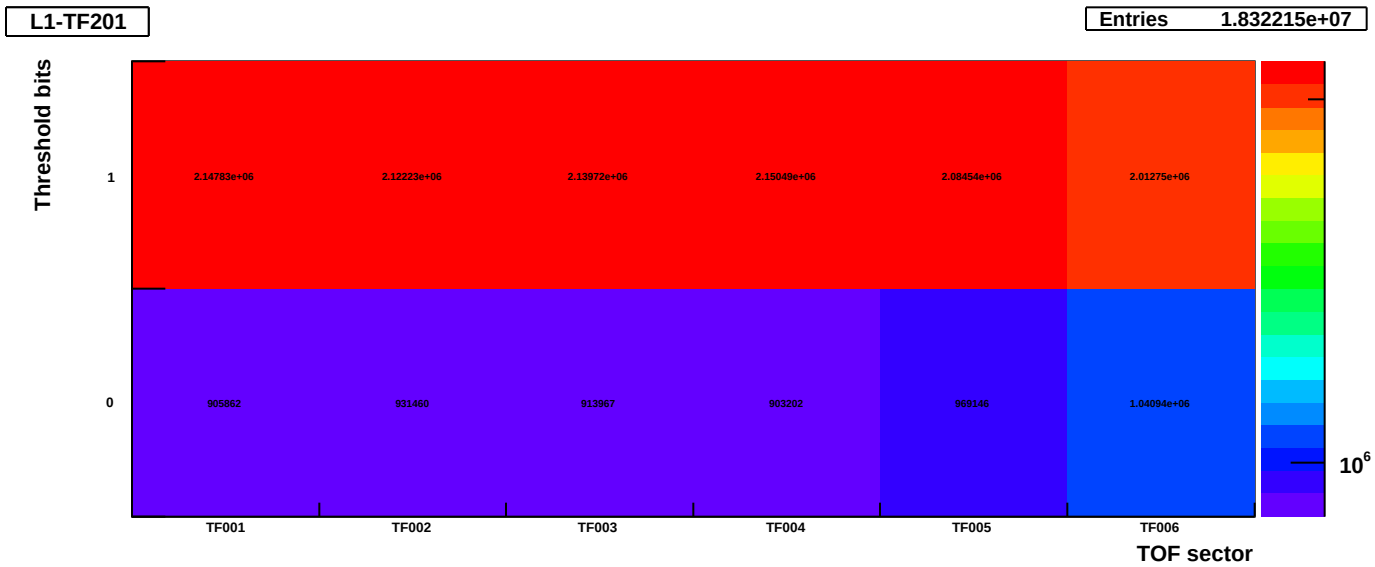

MIX-TF004
Entries 1.28255e+08
TOF MULT
TOF tray

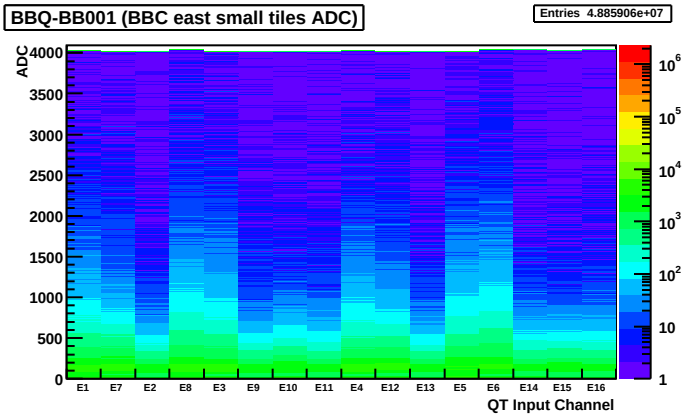

MIX-TF005
Entries 1.28255e+08
TOF MULT
TOF tray

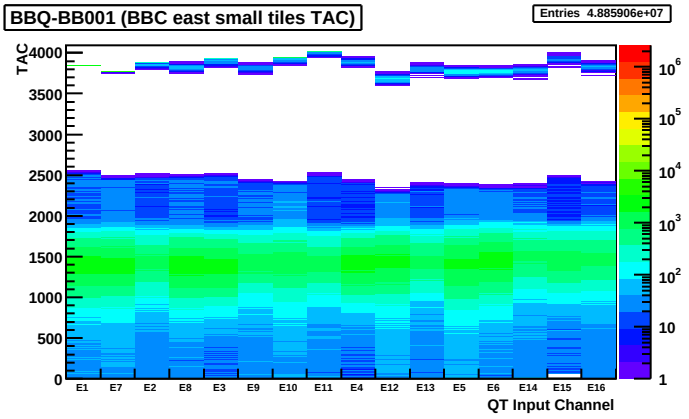

MIX-TF006
Entries 1.28255e+08
TOF MULT
TOF tray

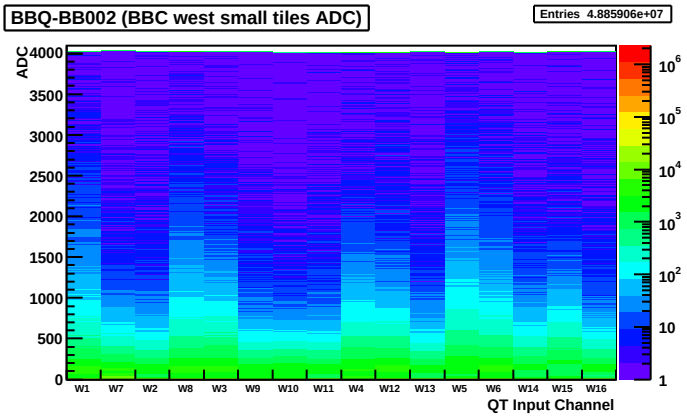

MIX-TF101
Entries 1.832215e+07
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^6
10^5
10^4
10^3
10^2
10
1

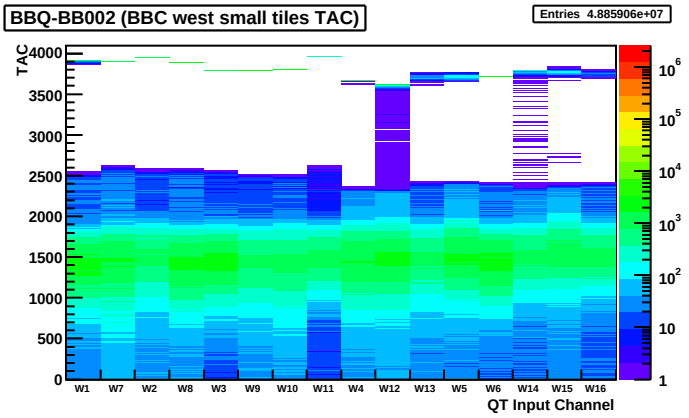

L1-TF201
Entries 3053691
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

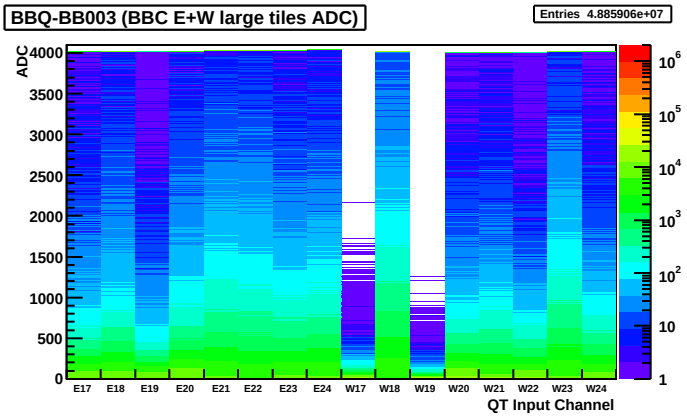

L1-TF201
Entries 1.832215e+07
Threshold bits
1
0
2.14783e+06
2.12223e+06
2.13972e+06
2.15049e+06
2.08454e+06
2.01275e+06
905862
931460
913967
903202
969146
1.04094e+06
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^6

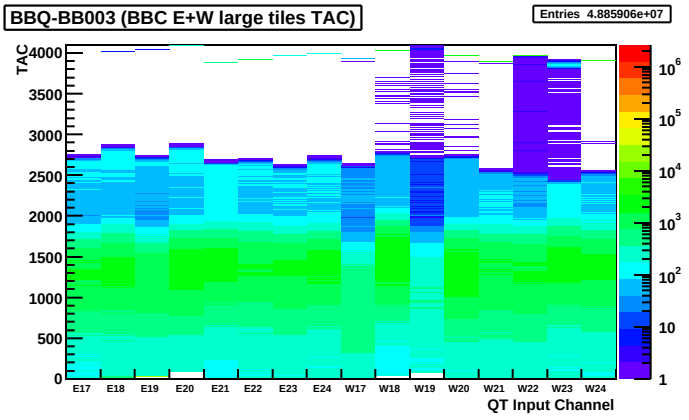

BBQ-BB001 (BBC east small tiles ADC)
Entries 4.885906e+07
ADC
QT Input Channel

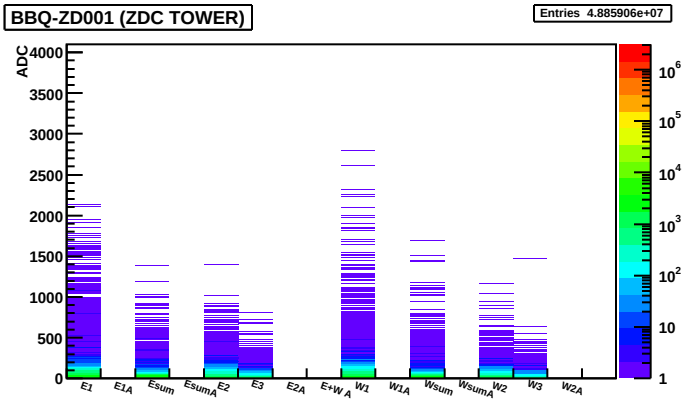

BBQ-BB001 (BBC east small tiles TAC)
Entries 4.885906e+07
TAC
QT Input Channel

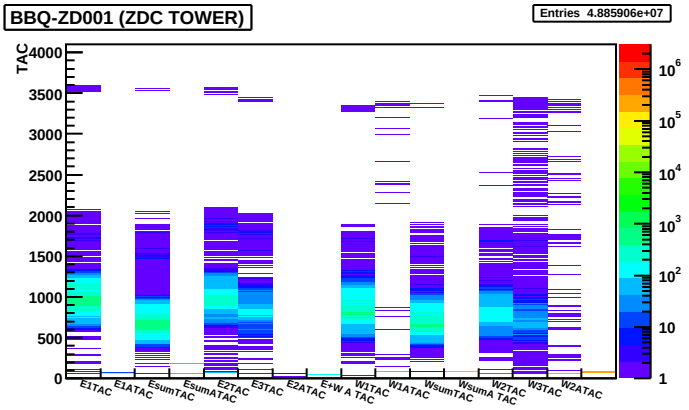

BBQ-BB002 (BBC west small tiles ADC)
Entries 4.885906e+07
ADC
QT Input Channel

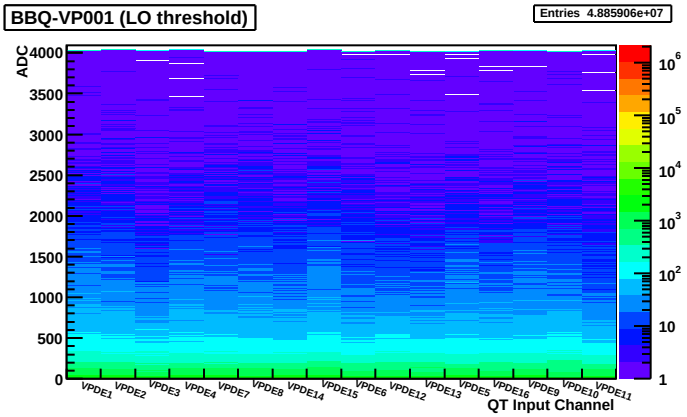

BBQ-BB002 (BBC west small tiles TAC)
Entries 4.885906e+07
TAC
QT Input Channel

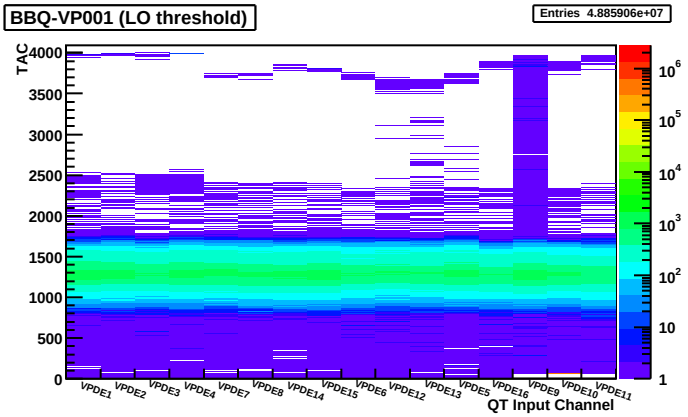

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4.885906e+07
ADC
QT Input Channel

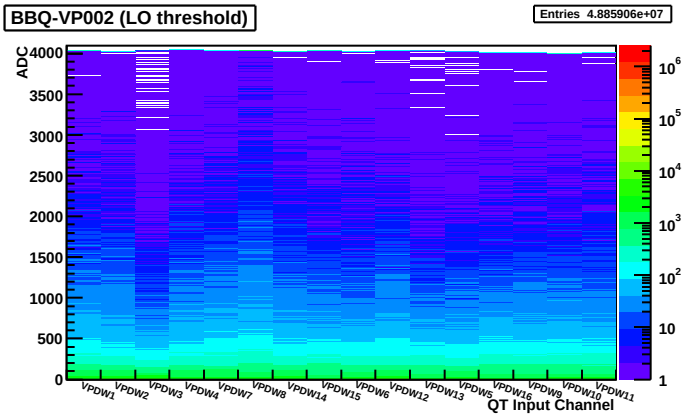

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4.885906e+07
TAC
QT Input Channel

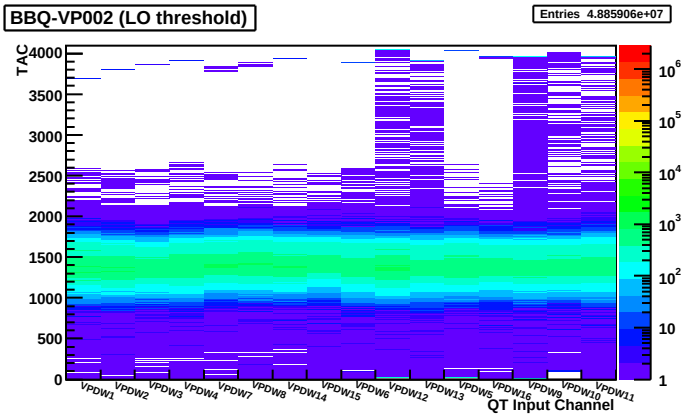

BBQ-ZD001 (ZDC TOWER)
Entries 4.885906e+07
ADC

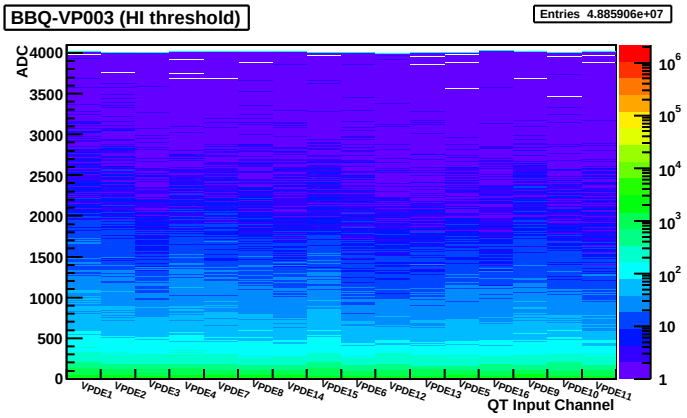

BBQ-ZD001 (ZDC TOWER)
Entries 4.885906e+07
TAC

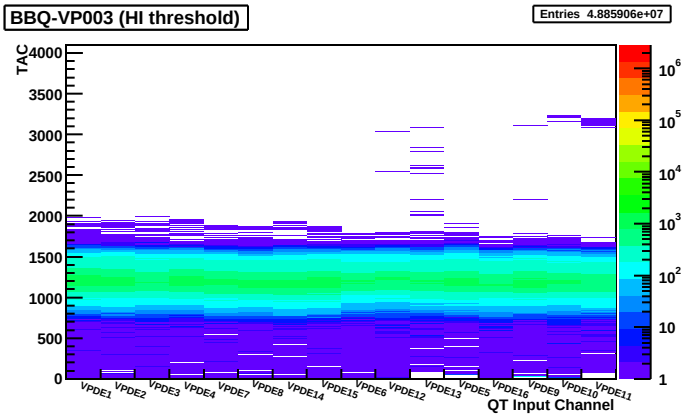

BBQ-VP001 (LO threshold)
Entries 4.885906e+07
ADC
QT Input Channel

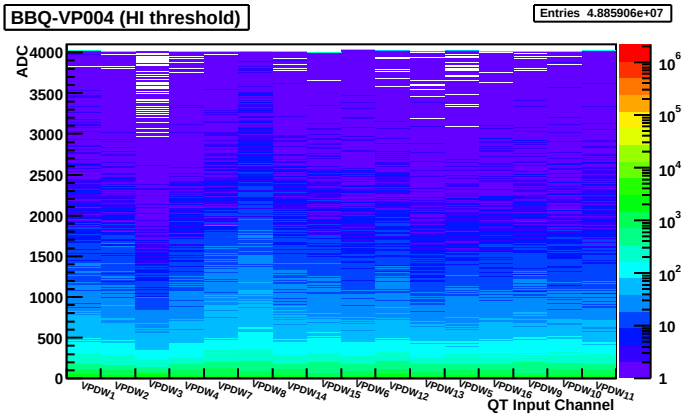

BBQ-VP001 (LO threshold)
Entries 4.885906e+07
TAC
QT Input Channel

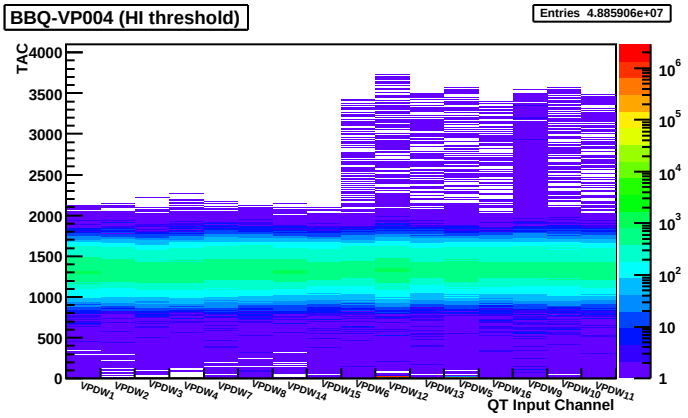

BBQ-VP002 (LO threshold)
Entries 4.885906e+07
ADC
QT Input Channel

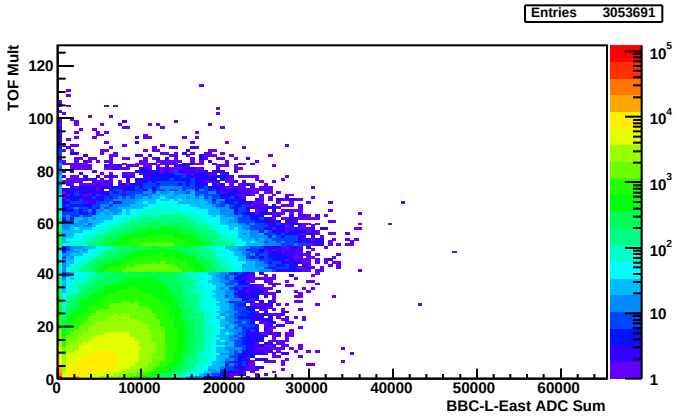

BBQ-VP002 (LO threshold)
Entries 4.885906e+07
TAC
QT Input Channel

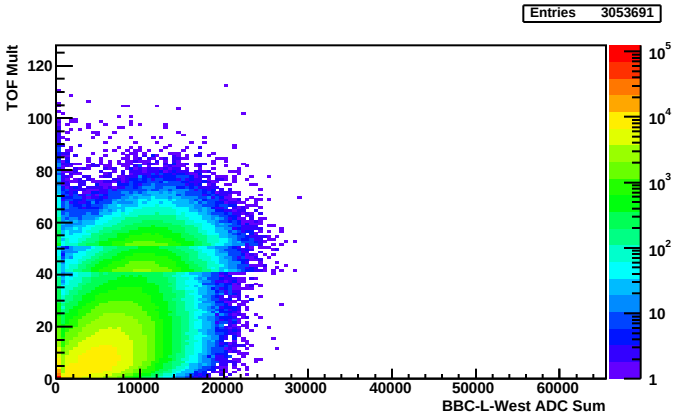

BBQ-VP003 (HI threshold)
Entries 4.885906e+07
ADC
QT Input Channel

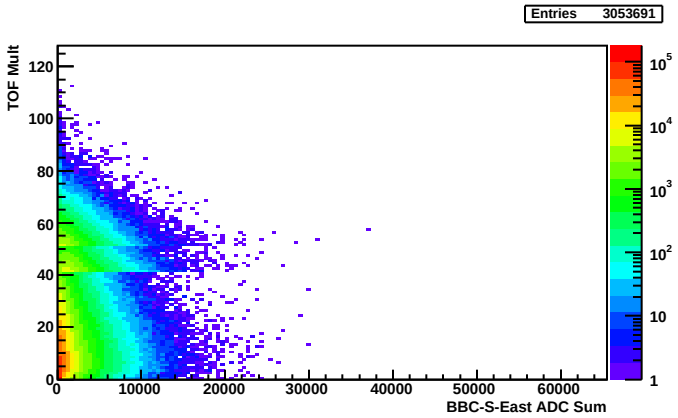

BBQ-VP003 (HI threshold)
Entries 4.885906e+07
TAC
QT Input Channel

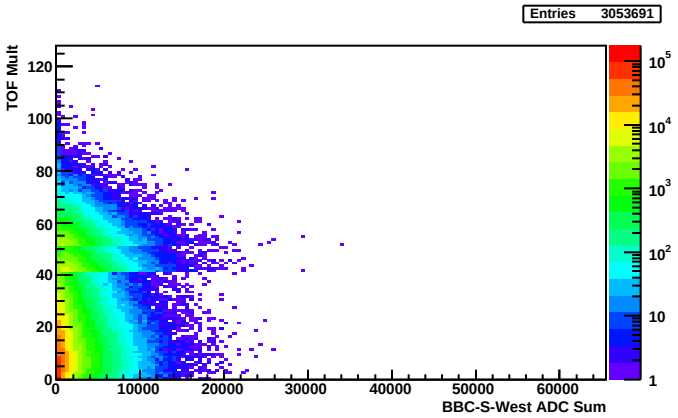

BBQ-VP004 (HI threshold)
Entries 4.885906e+07
ADC
QT Input Channel

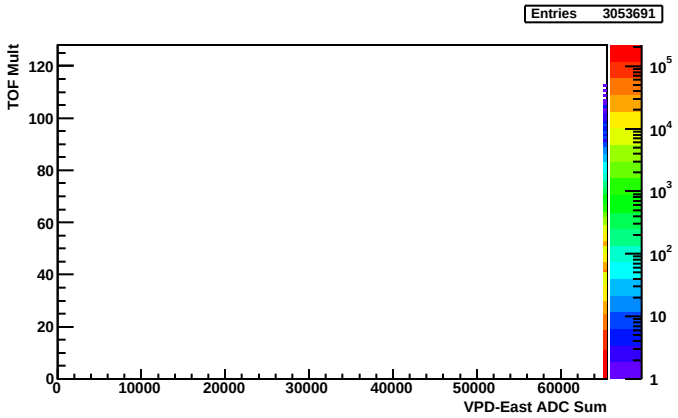

BBQ-VP004 (HI threshold)
Entries 4.885906e+07
TAC
QT Input Channel

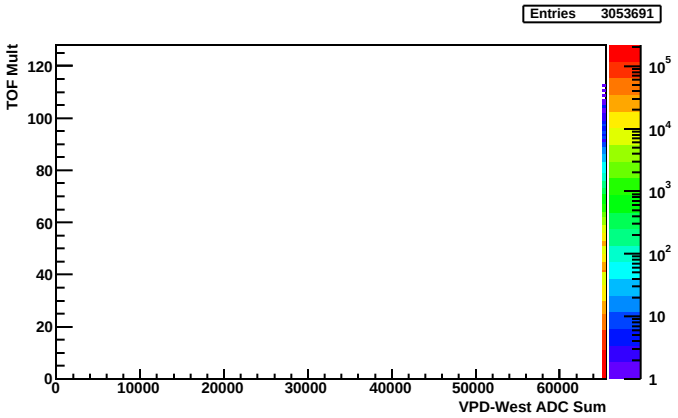

Entries 3053691
TOF Mult
BBC-L-East ADC Sum

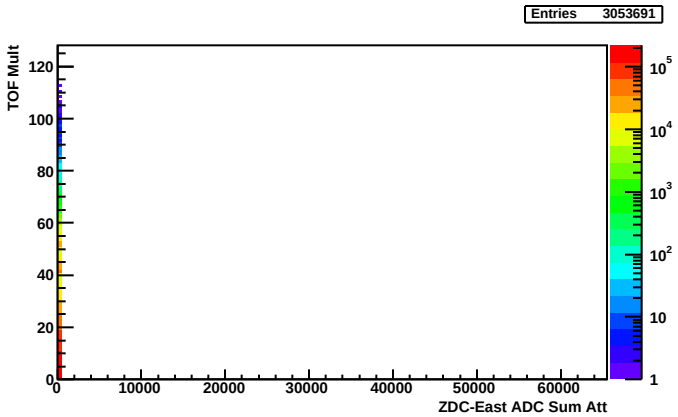

Entries 3053691
TOF Mult
BBC-L-West ADC Sum

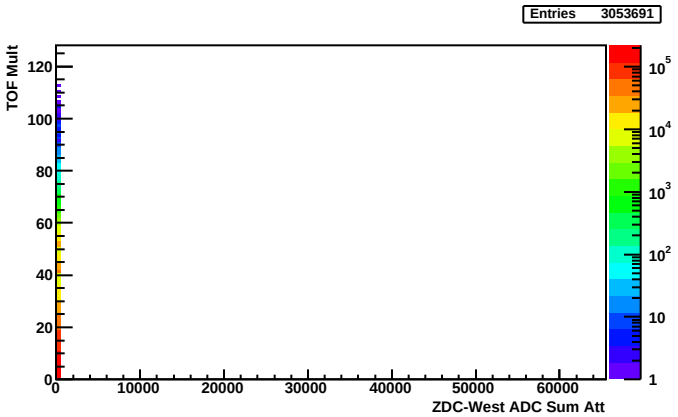

Entries 3053691
TOF Mult
BBC-S-East ADC Sum

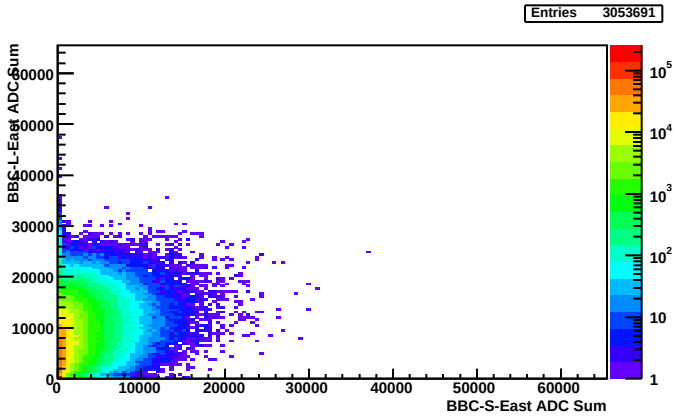

Entries 3053691
TOF Mult
BBC-S-West ADC Sum

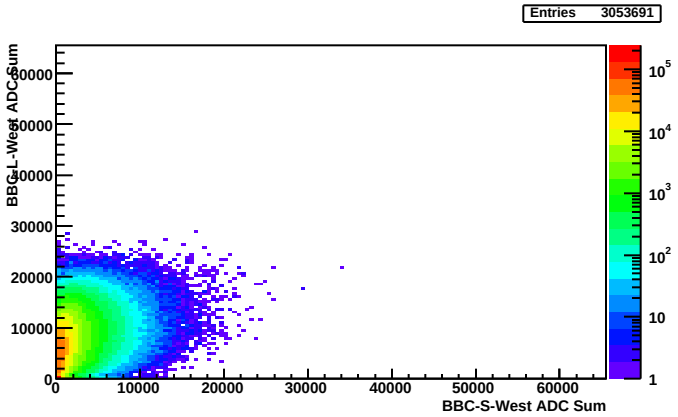

Entries 3053691
TOF Mult
VPD-East ADC Sum

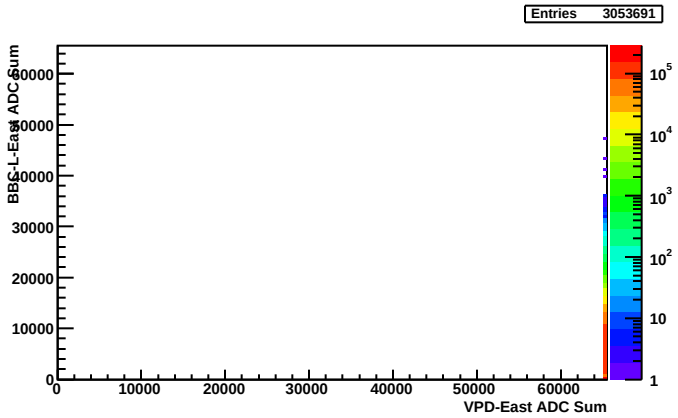

Entries 3053691
TOF Mult
VPD-West ADC Sum

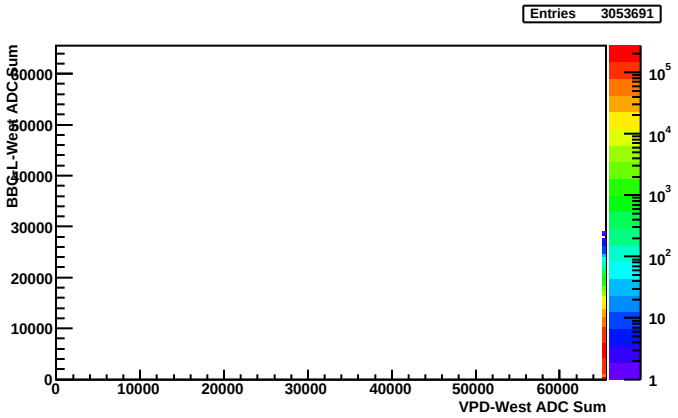

Entries 3053691
TOF Mult
ZDC-East ADC Sum Att

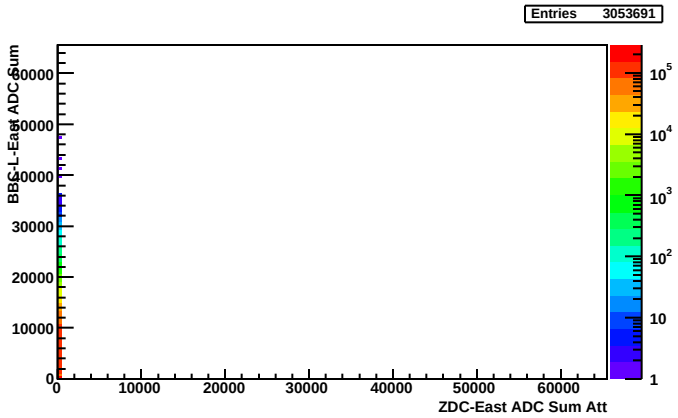

Entries 3053691
TOF Mult
ZDC-West ADC Sum Att

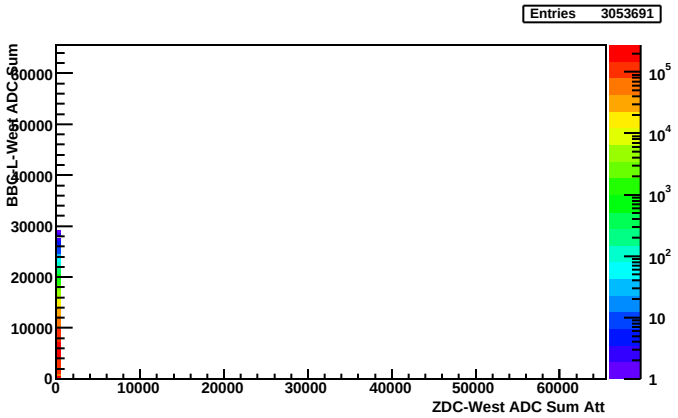

Entries 3053691
BBC-L-East ADC Sum
BBC-S-East ADC Sum

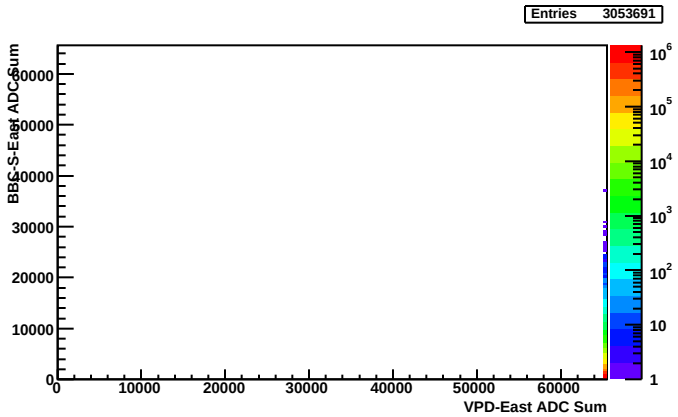

Entries 3053691
BBC-L-West ADC Sum
BBC-S-West ADC Sum

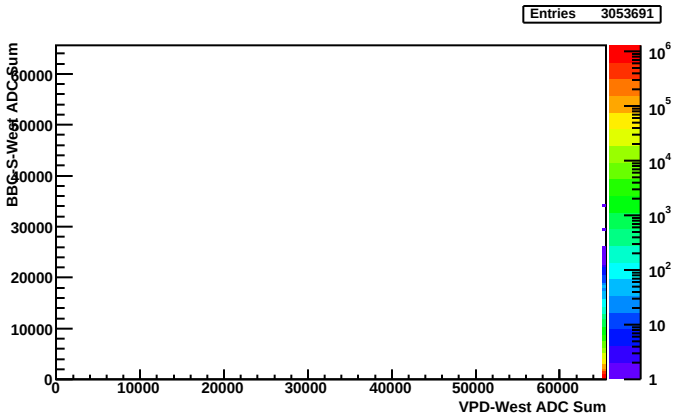

Entries 3053691
BBC-L-East ADC Sum
VPD-East ADC Sum

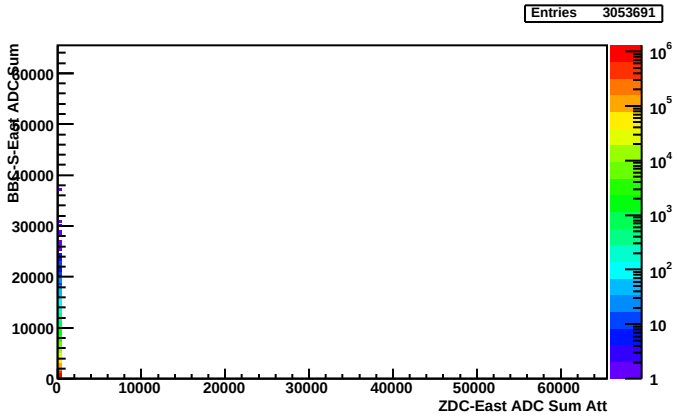

Entries 3053691
BBC-L-West ADC Sum
VPD-West ADC Sum

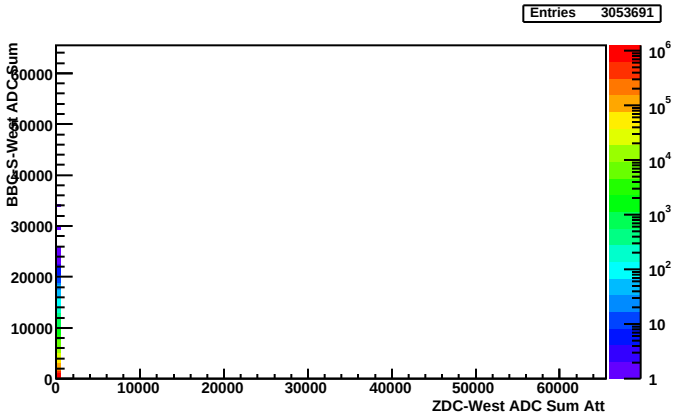

Entries 3053691
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

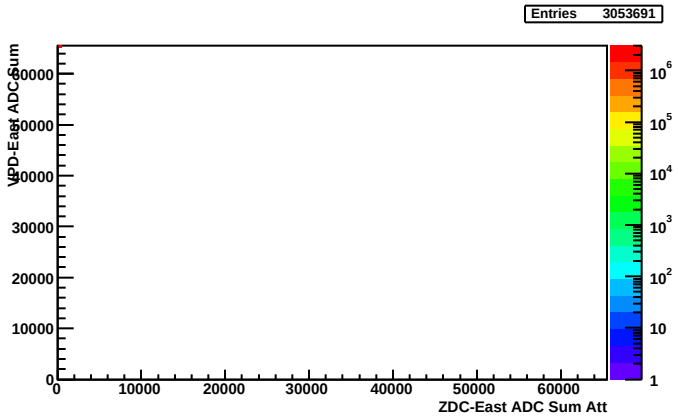

Entries 3053691
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

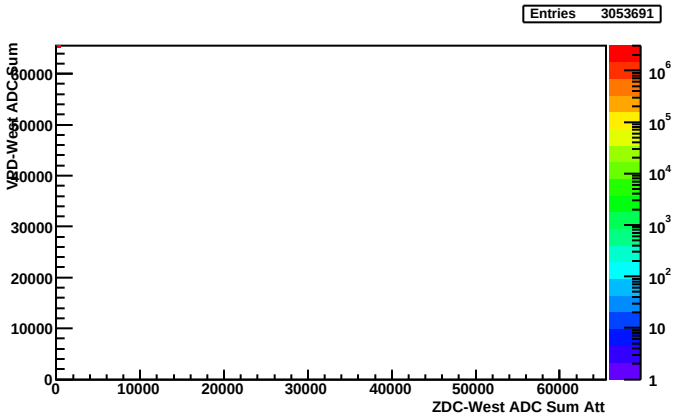

Entries 3053691
BBC-S-East ADC Sum
VPD-East ADC Sum

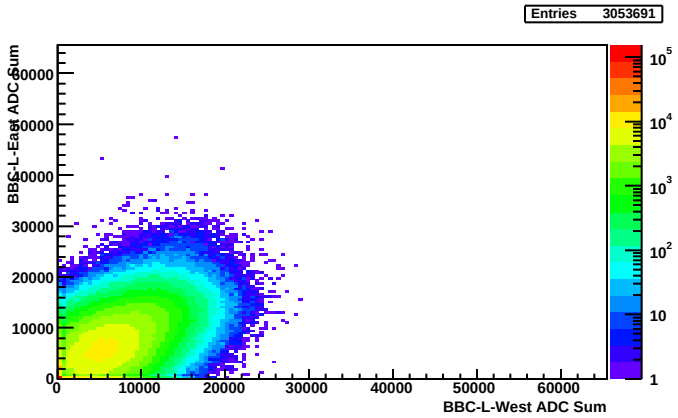

Entries 3053691
BBC-S-West ADC Sum
VPD-West ADC Sum

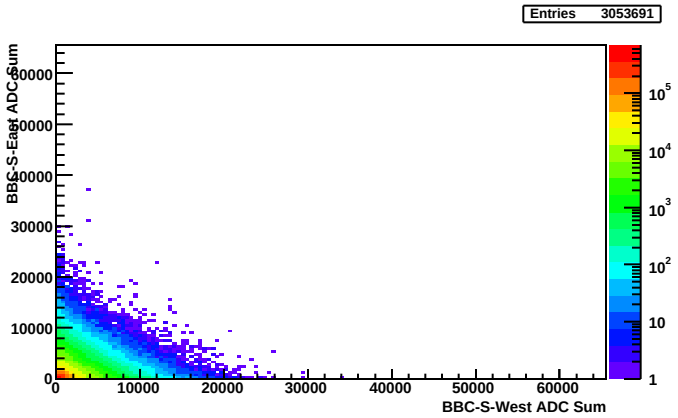

Entries 3053691
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

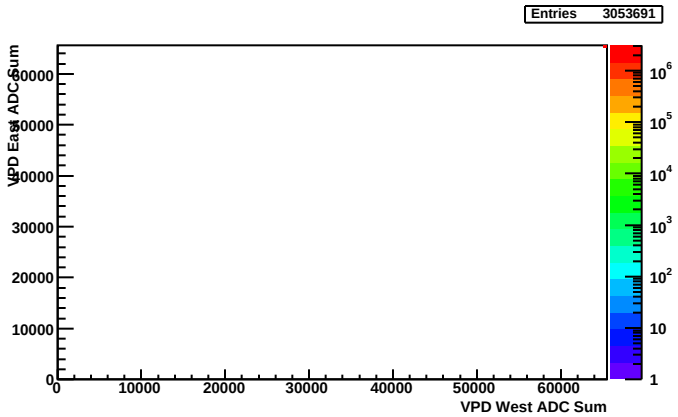

Entries 3053691
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

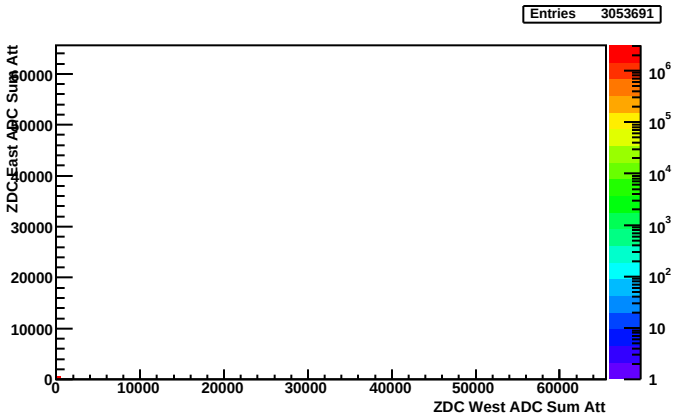

Entries 3053691
VPD-East ADC Sum
ZDC-East ADC Sum Att

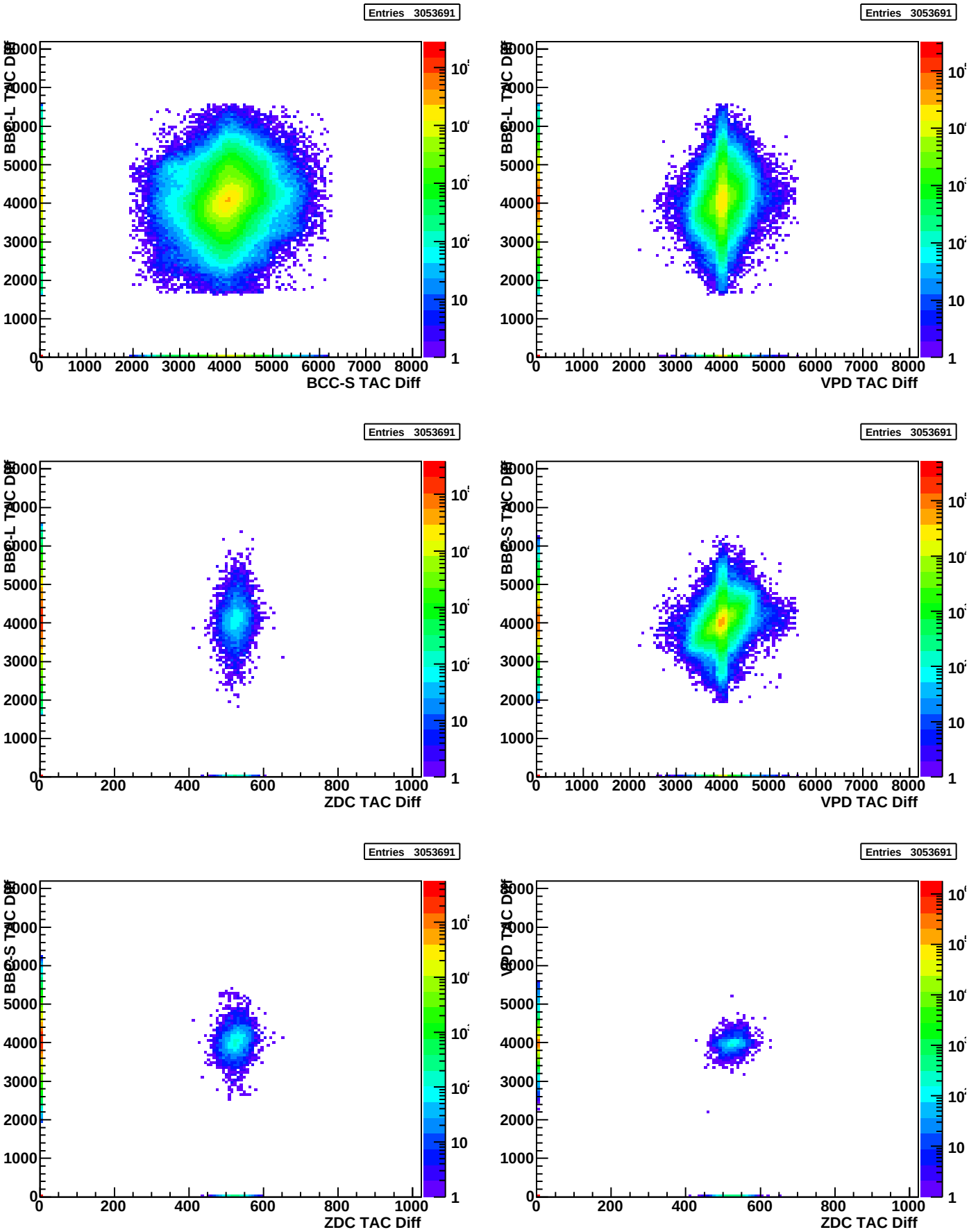

Entries 3053691
VPD-West ADC Sum
ZDC-West ADC Sum Att

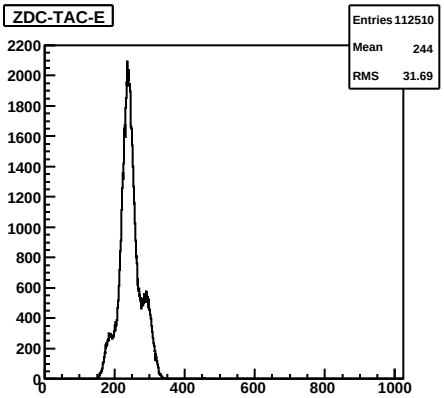

Entries 3053691
BBC-L-East ADC Sum
BBC-L-West ADC Sum

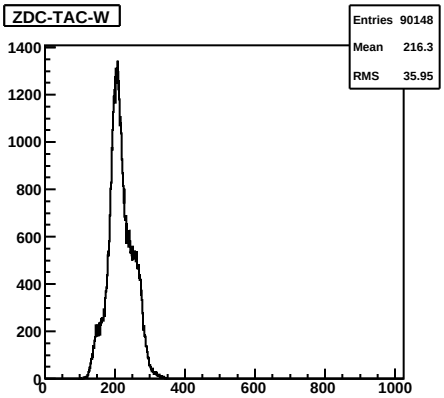

Entries 3053691
BBC-S-East ADC Sum
BBC-S-West ADC Sum

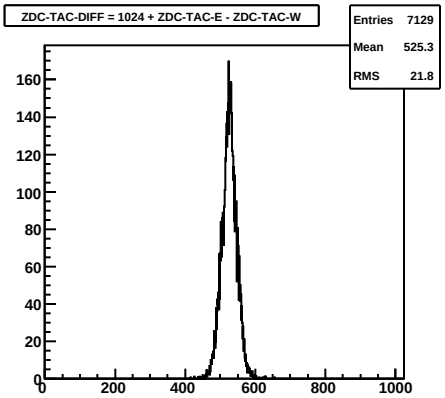

Entries 3053691
VPD East ADC Sum
VPD West ADC Sum

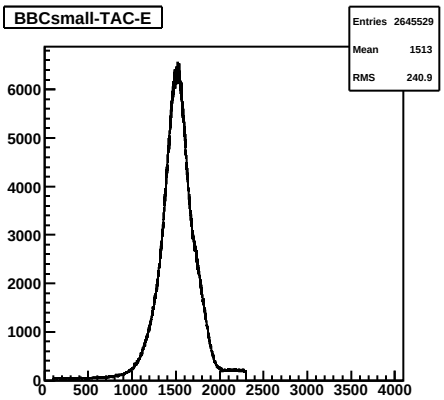

Entries 3053691
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

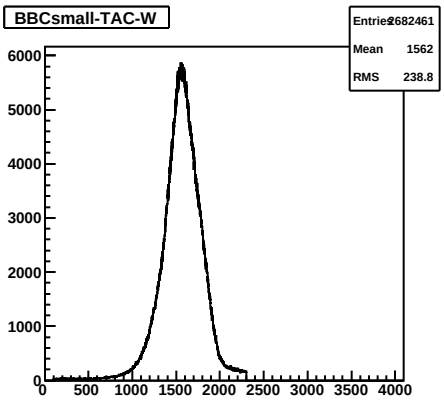

Entries 3053691
BBC-L TAC Diff
BCC-S TAC Diff
Entries 3053691
BBC-L TAC Diff
VPD TAC Diff
Entries 3053691
BBC-L TAC Diff
ZDC TAC Diff
Entries 3053691
BBC-S TAC Diff
VPD TAC Diff
Entries 3053691
BBC-S TAC Diff
ZDC TAC Diff
Entries 3053691
VPD TAC Diff
ZDC TAC Diff

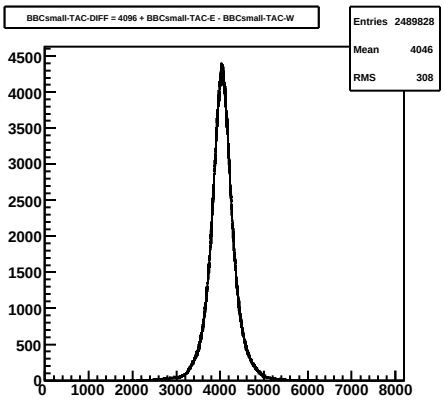

ZDC-TAC-E
Entries 112510
Mean 244
RMS 31.69

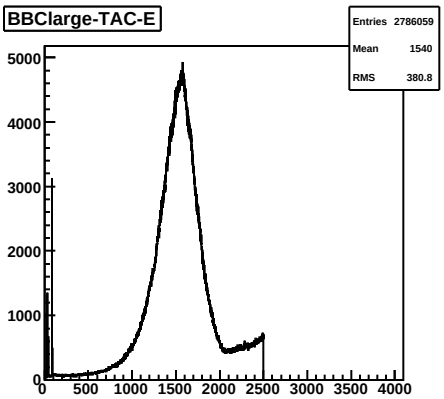

ZDC-TAC-W
Entries 90148
Mean 216.3
RMS 35.95

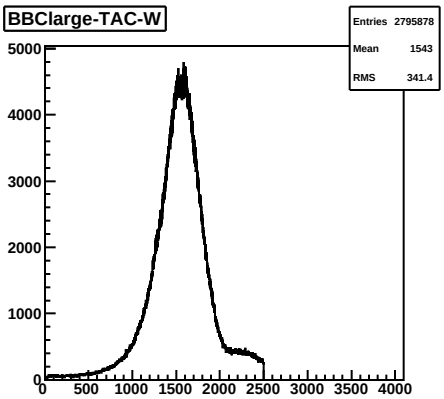

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 7129
Mean 525.3
RMS 21.8

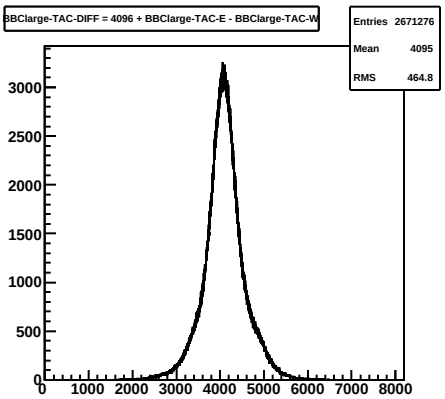

BBCsmall-TAC-E
Entries 2645529
Mean 1513
RMS 240.9

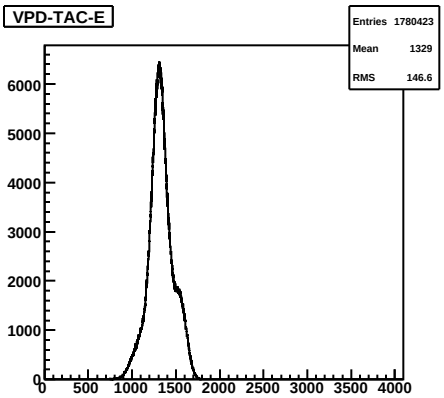

BBCsmall-TAC-W
Entries 2682461
Mean 1562
RMS 238.8

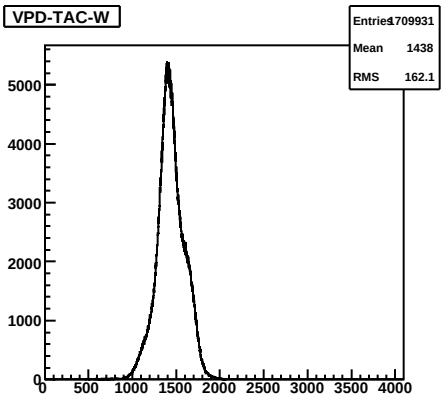

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 2489828
Mean 4046
RMS 308

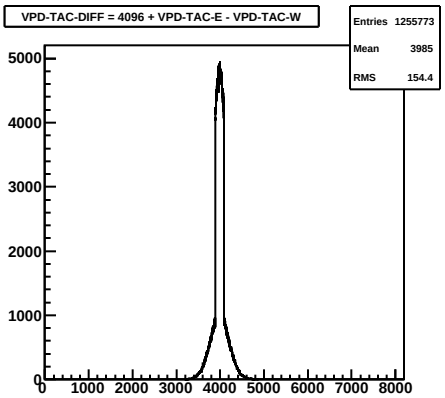

BBClarge-TAC-E
Entries 2786059
Mean 1540
RMS 380.8

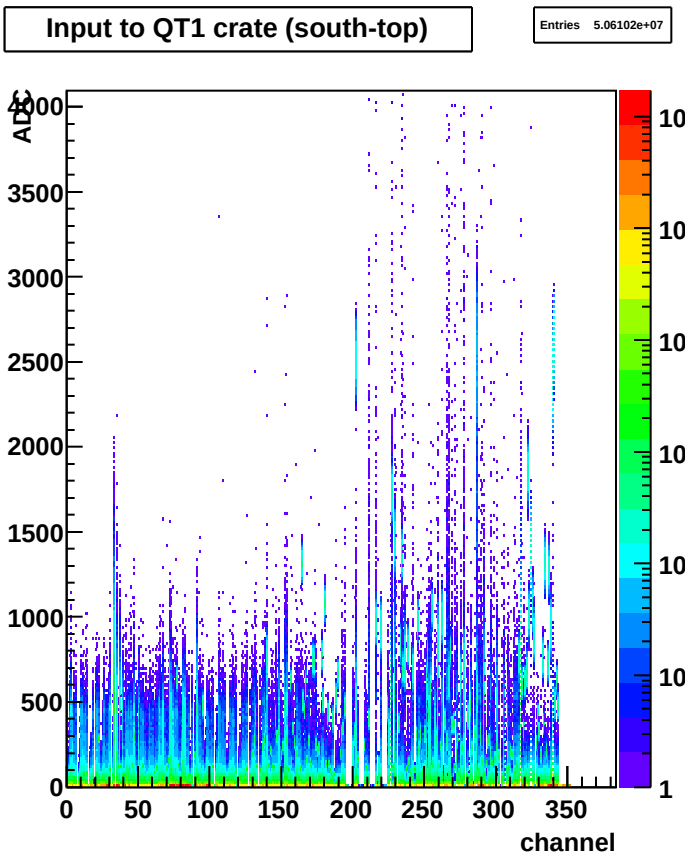

BBClarge-TAC-W
Entries 2795878
Mean 1543
RMS 341.4

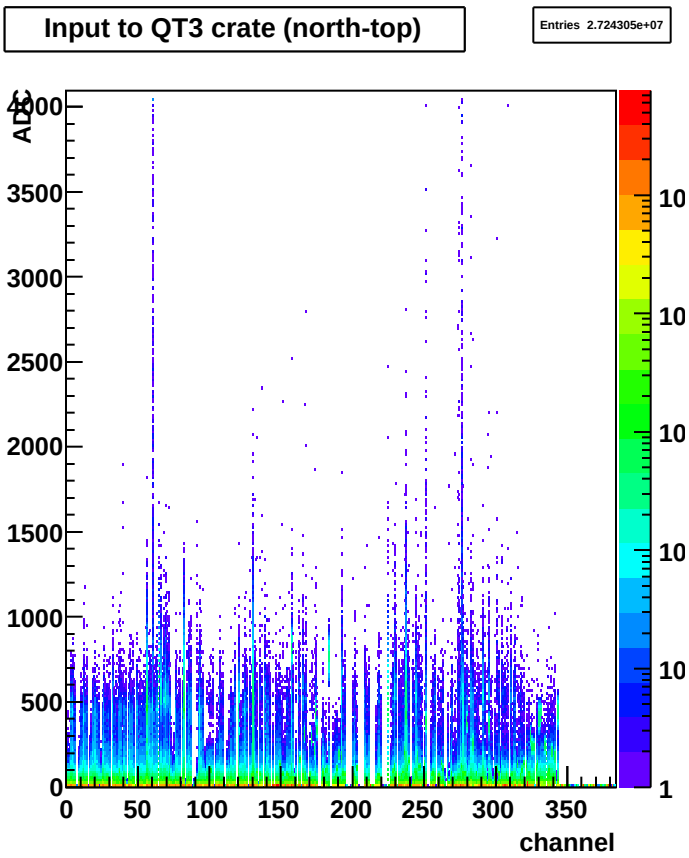

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 2671276
Mean 4095
RMS 464.8

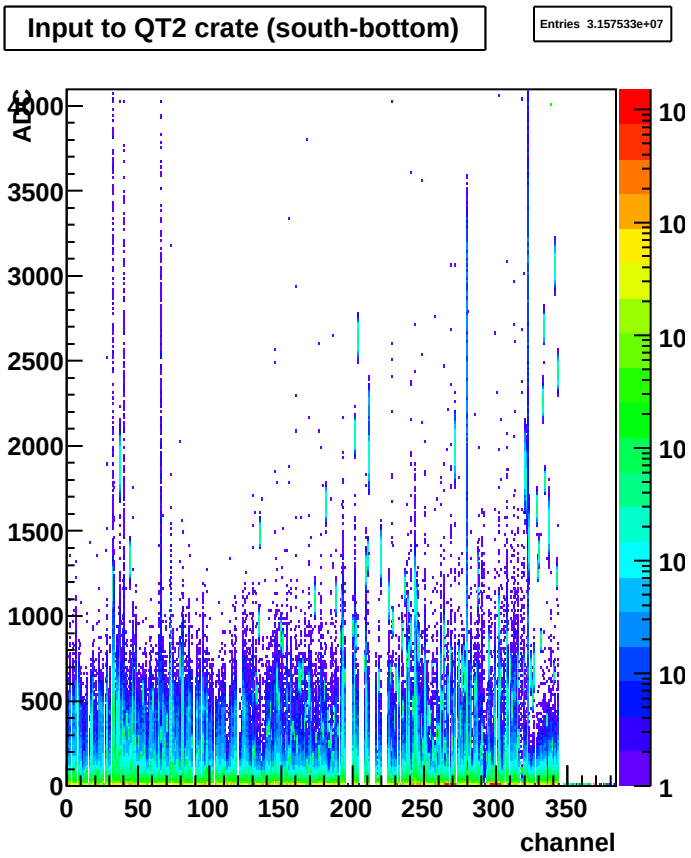

VPD-TAC-E
Entries 1780423
Mean 1329
RMS 146.6

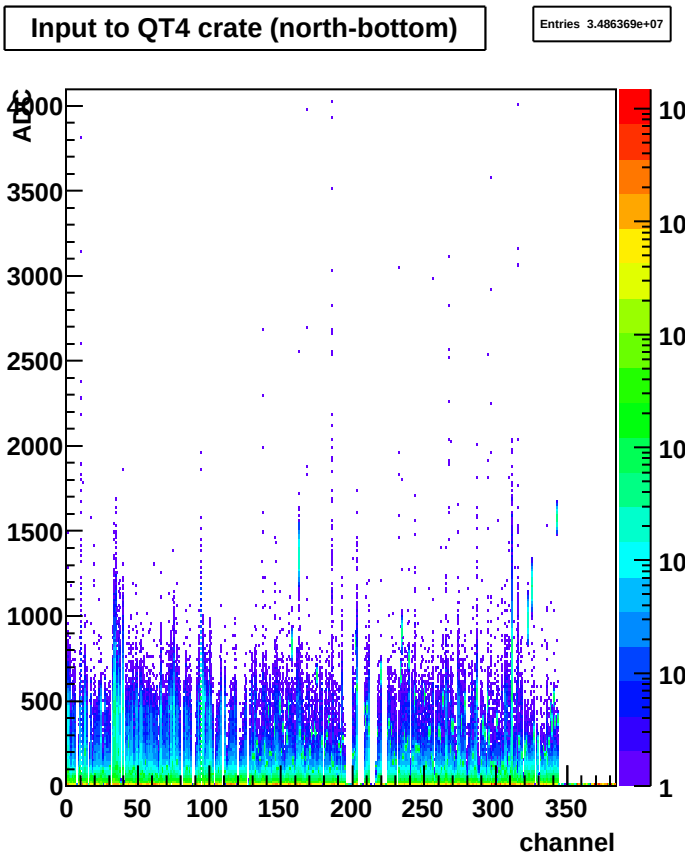

VPD-TAC-W
Entries 1709931
Mean 1438
RMS 162.1

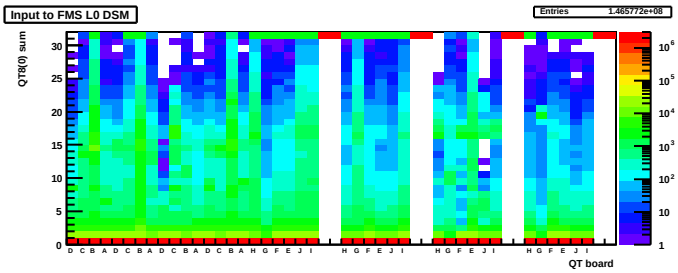

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1255773
Mean 3985
RMS 154.4

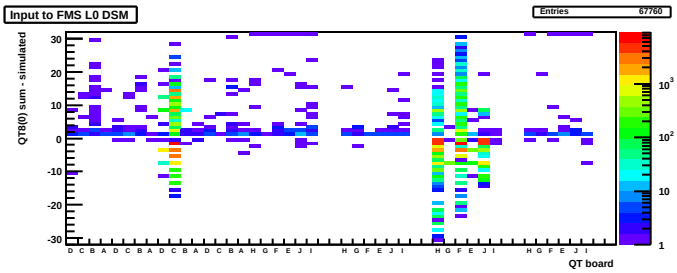

Input to QT1 crate (south-top)
Entries 5.06102e+07
ADC
channel

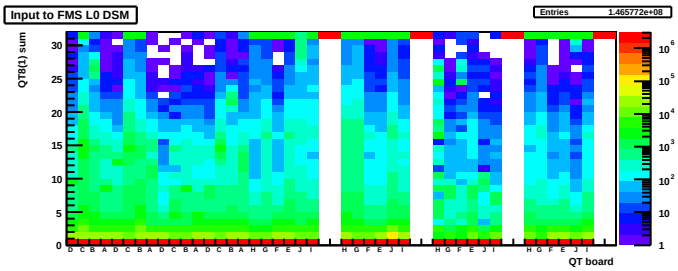

Input to QT3 crate (north-top)
Entries 2.724305e+07
ADC
channel

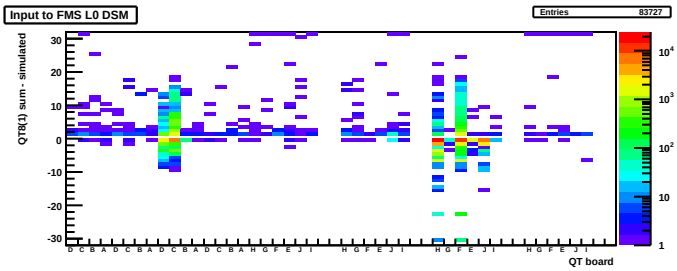

Input to QT2 crate (south-bottom)
Entries 3.157533e+07
ADC
channel

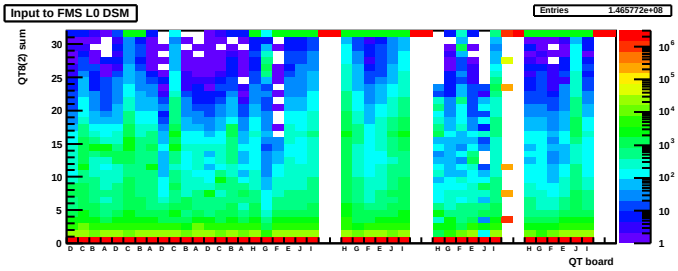

Input to QT4 crate (north-bottom)
Entries 3.486369e+07
ADC
channel

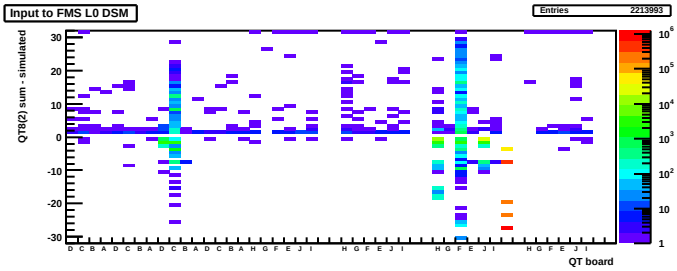

Input to FMS L0 DSM
Entries 1.465772e+08
QT8(0) sum
QT board

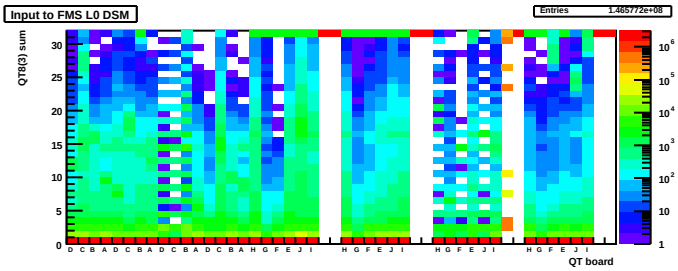

Input to FMS L0 DSM
Entries 67760
QT8(0) sum - simulated
QT board

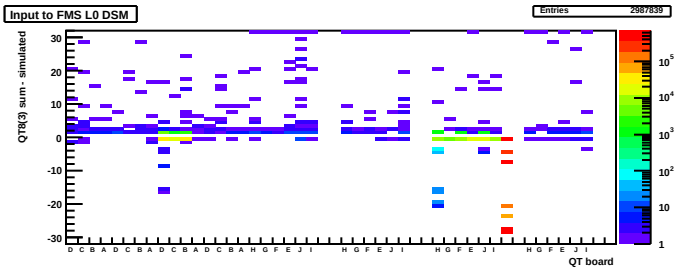

Input to FMS L0 DSM
Entries 1.465772e+08
QT8(1) sum
QT board

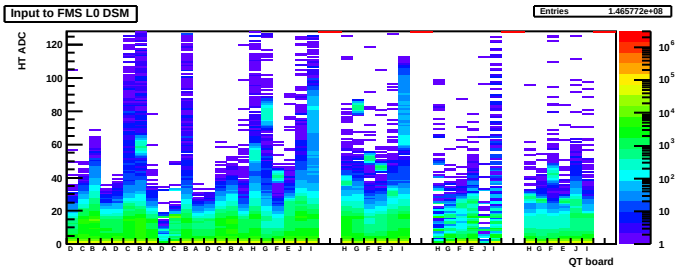

Input to FMS L0 DSM
Entries 83727
QT8(1) sum - simulated
QT board

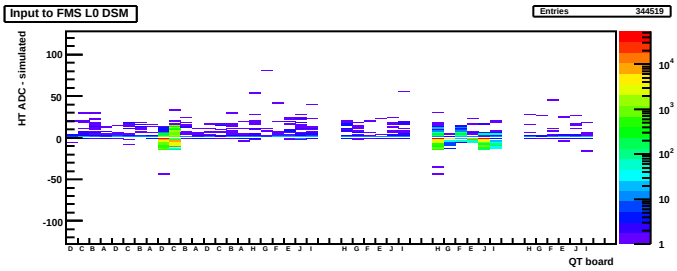

Input to FMS L0 DSM
Entries 1.465772e+08
QT8(2) sum
QT board

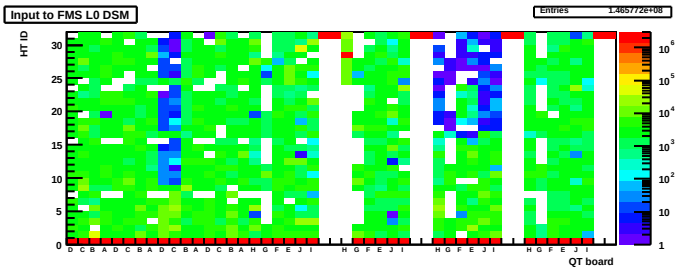

Input to FMS L0 DSM
Entries 2213993
QT8(2) sum - simulated
QT board

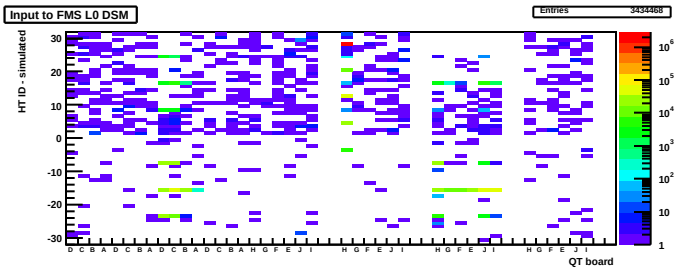

Input to FMS L0 DSM
Entries 1.465772e+08
QT8(3) sum
QT board

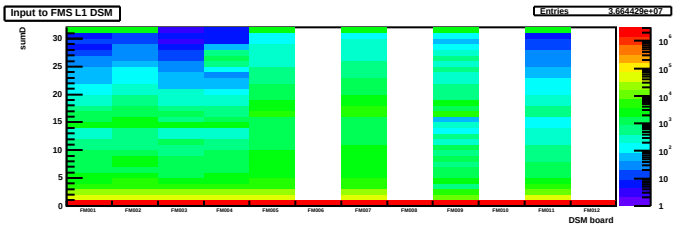

Input to FMS L0 DSM
Entries 2987839
QT8(3) sum - simulated
QT board

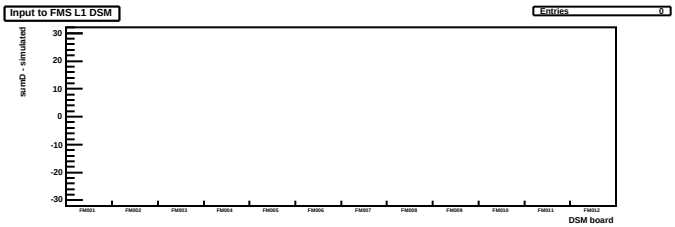

Input to FMS L0 DSM
Entries 1.465772e+08
HT ADC
QT board

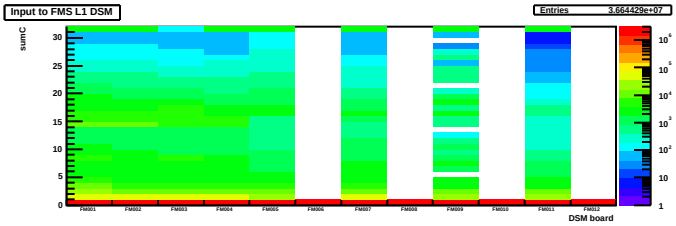

Input to FMS L0 DSM
Entries 344519
HT ADC - simulated
QT board

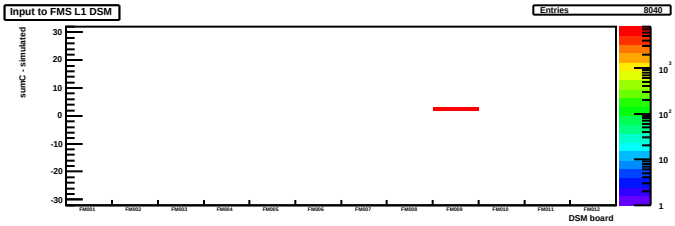

Input to FMS L0 DSM
Entries 1.465772e+08
HT ID
QT board

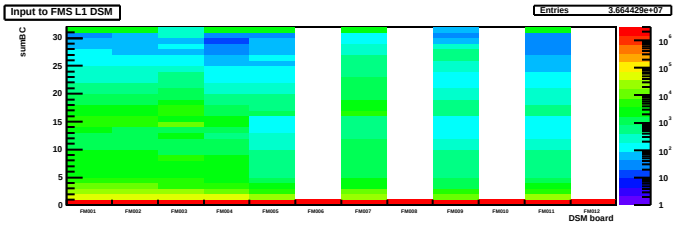

Input to FMS L0 DSM
Entries 3434468
HT ID - simulated
QT board

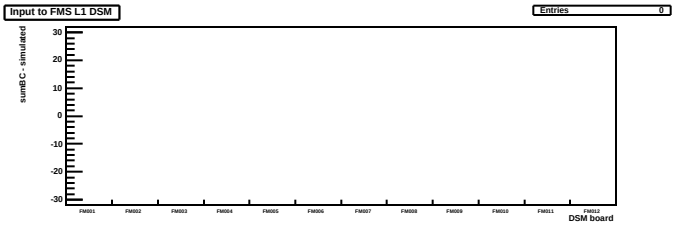

Input to FMS L1 DSM
Entries 3.664429e+07
sumD
DSM board

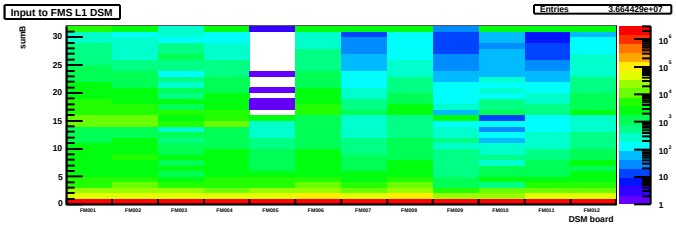

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

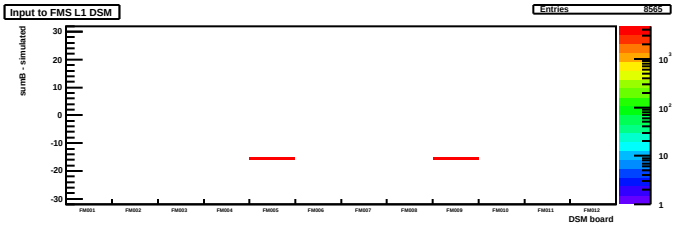

Input to FMS L1 DSM
Entries 3.664429e+07
sumC
DSM board

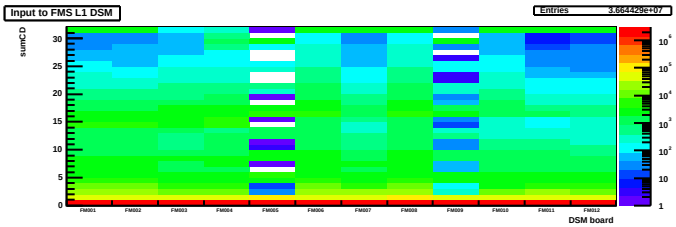

Input to FMS L1 DSM
Entries 8040
sumC - simulated
DSM board

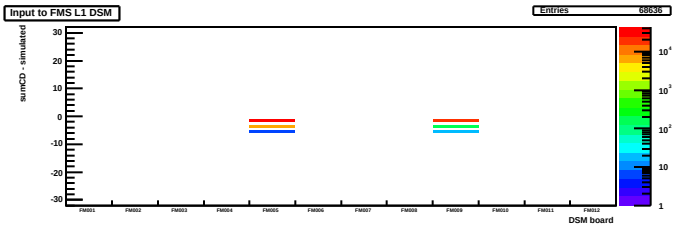

Input to FMS L1 DSM
Entries 3.664429e+07
sumBC
DSM board

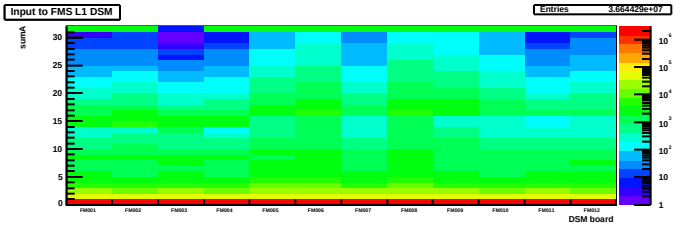

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

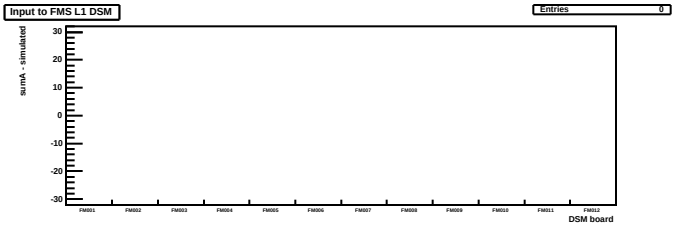

Input to FMS L1 DSM
Entries 3.664429e+07
sumB
DSM board

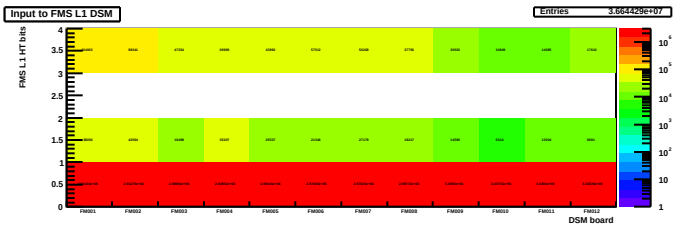

Input to FMS L1 DSM
Entries 8565
sumB - simulated
DSM board

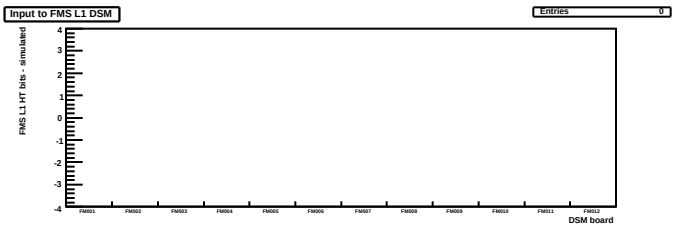

Input to FMS L1 DSM
Entries 3.664429e+07
sumCD
DSM board

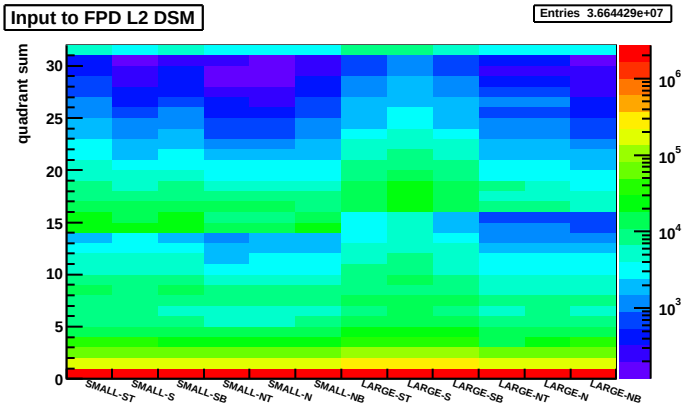

Input to FMS L1 DSM
Entries 68636
sumCD - simulated
DSM board

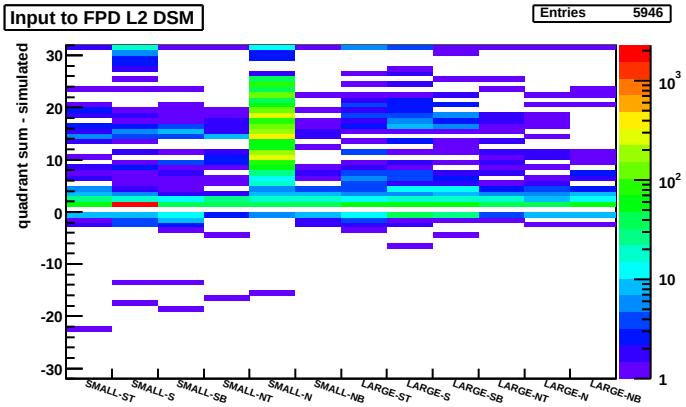

Input to FMS L1 DSM
Entries 3.664429e+07
sumA
DSM board

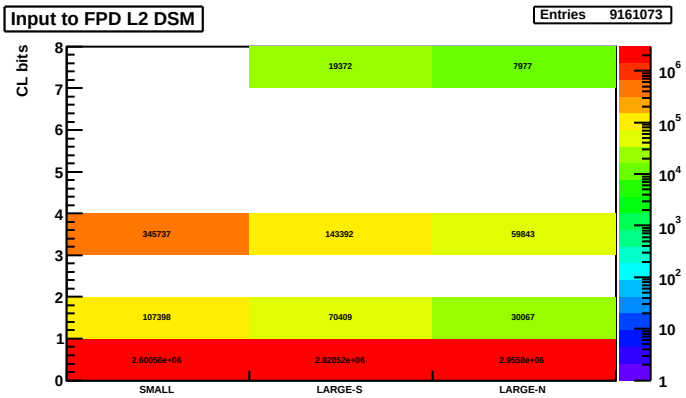

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

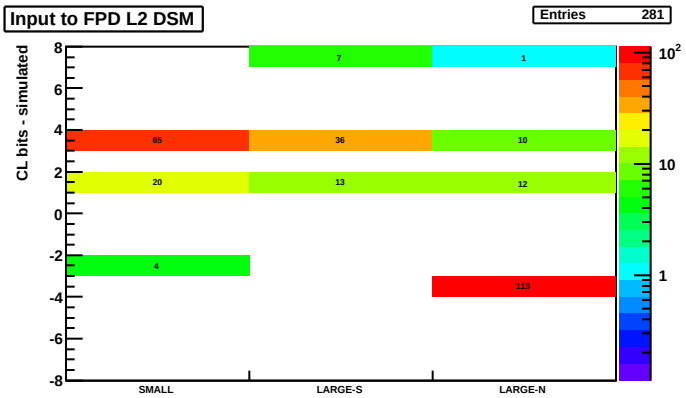

Input to FMS L1 DSM
Entries 3.664429e+07
FMS L1 HT bits
DSM board

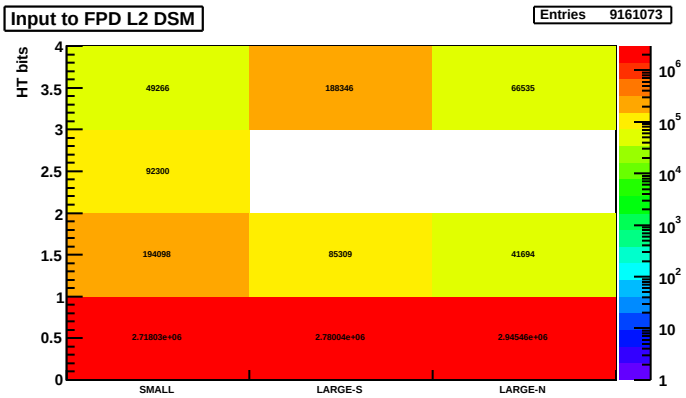

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

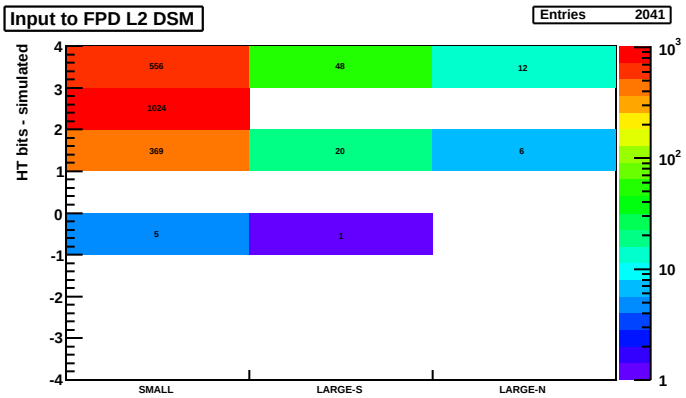

Input to FPD L2 DSM
Entries 3.664429e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

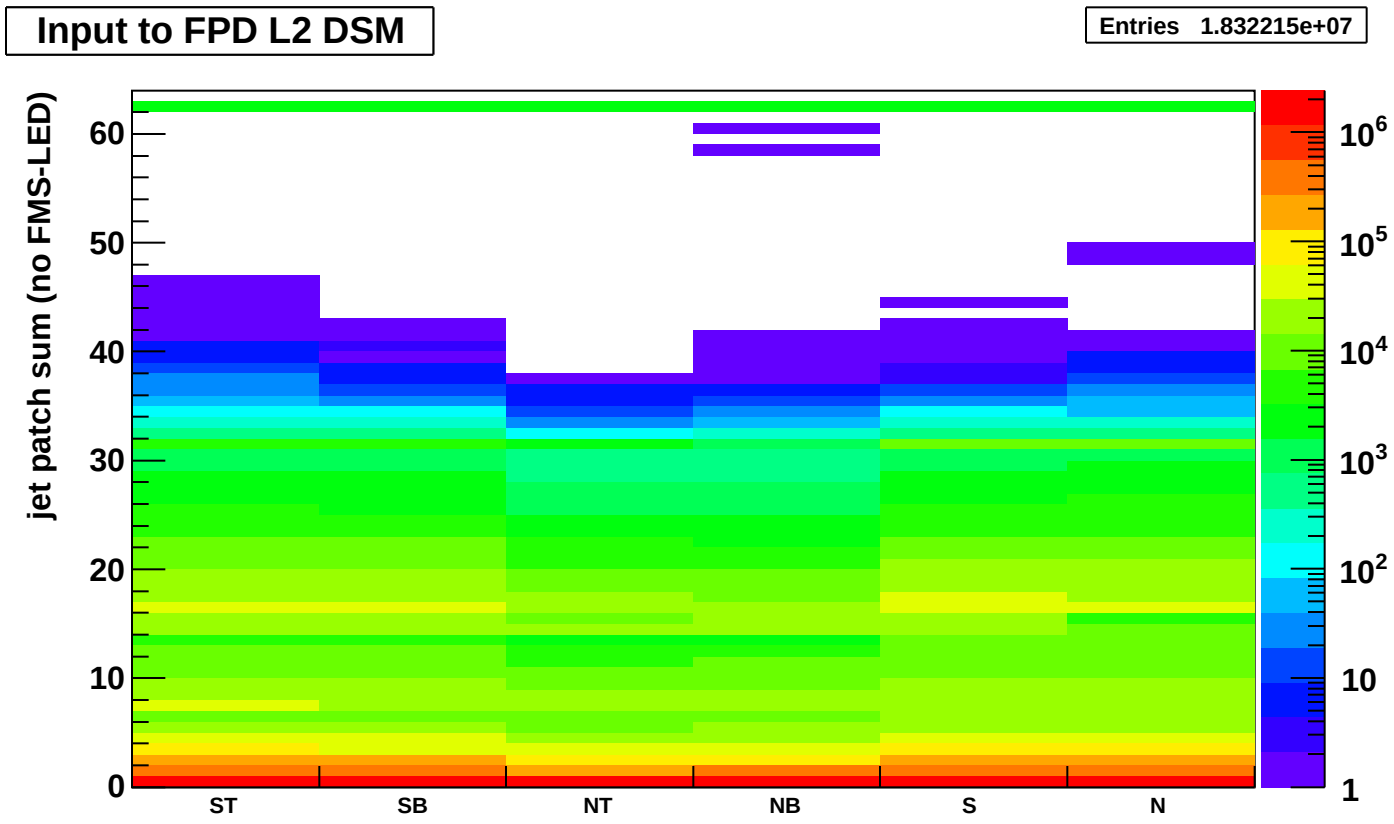

Input to FPD L2 DSM
Entries 5946
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

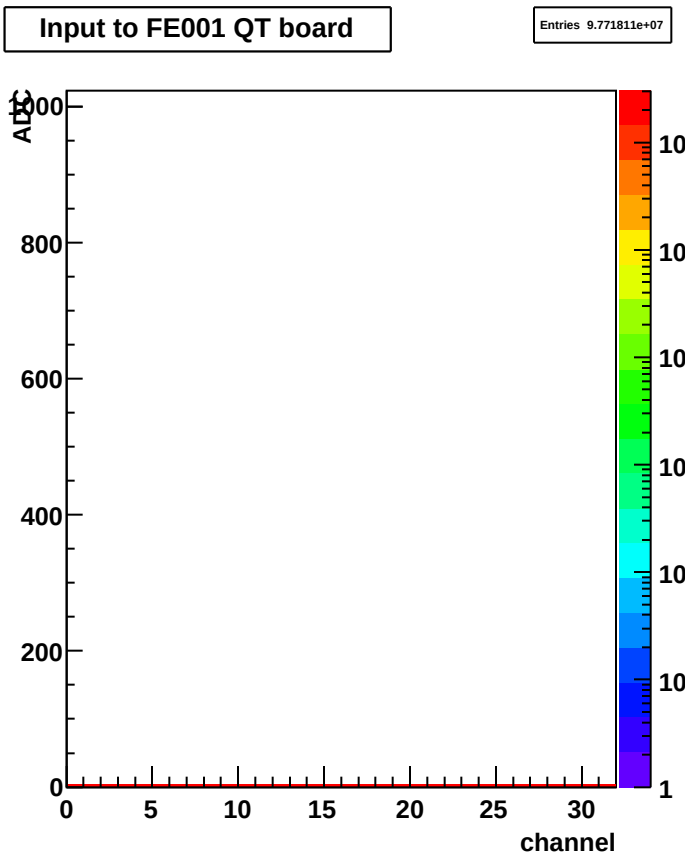

Input to FPD L2 DSM
Entries 9161073
CL bits
19372
7977
345737
143392
59843
107398
70409
30067
2.60056e+06
2.82052e+06
2.9558e+06
SMALL
LARGE-S
LARGE-N

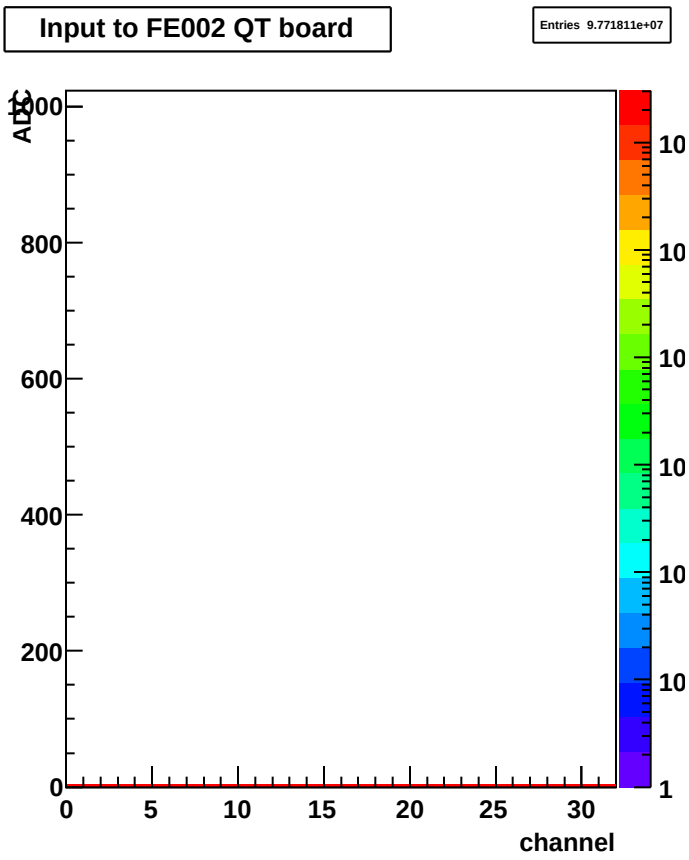

Input to FPD L2 DSM
Entries 281
CL bits - simulated
7
1
65
36
10
20
13
12
4
113
SMALL
LARGE-S
LARGE-N

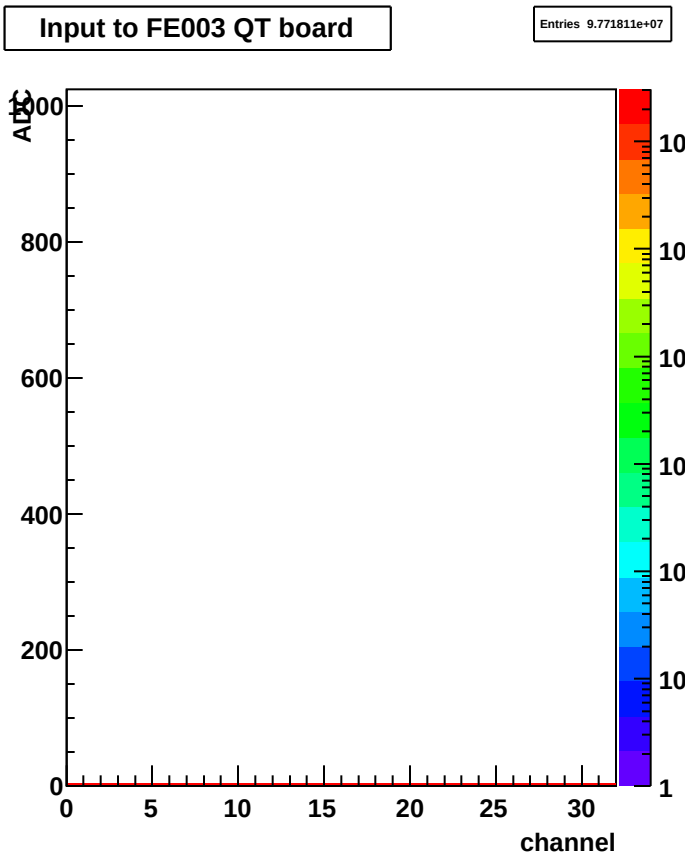

Input to FPD L2 DSM
Entries 9161073
HT bits
49266
188346
66535
92300
194098
85309
41694
2.71803e+06
2.78004e+06
2.94546e+06
SMALL
LARGE-S
LARGE-N

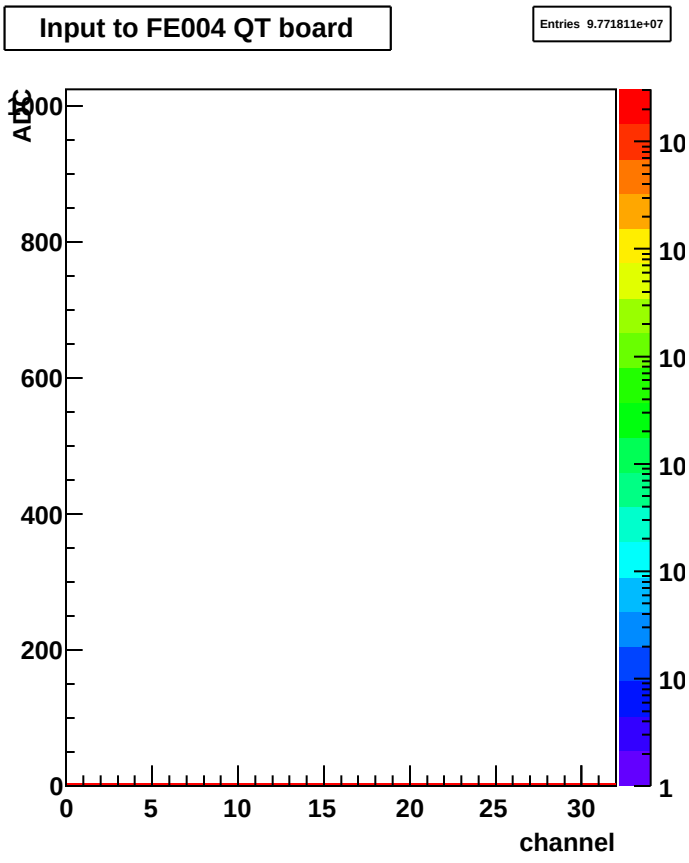

Input to FPD L2 DSM
Entries 2041
HT bits - simulated
556
48
12
1024
369
20
6
5
1
SMALL
LARGE-S
LARGE-N

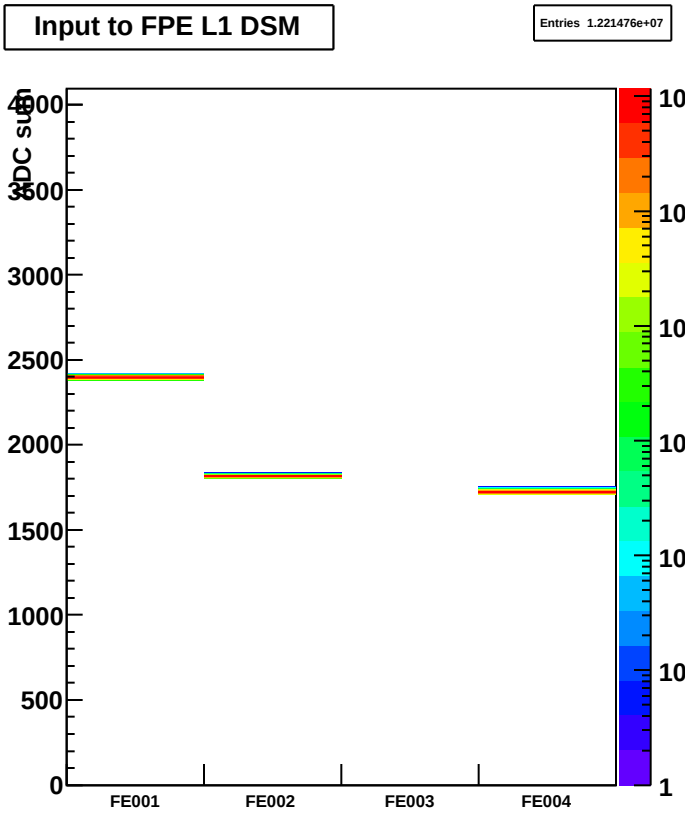

Input to FPD L2 DSM
Entries 1.832215e+07
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6

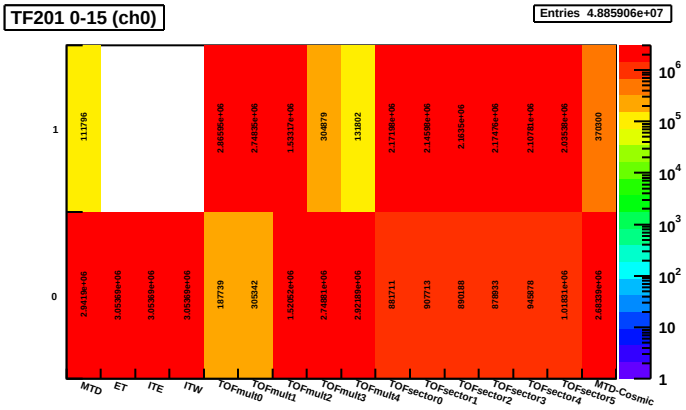

Input to FE001 QT board
Entries 9.771811e+07
ADC
channel

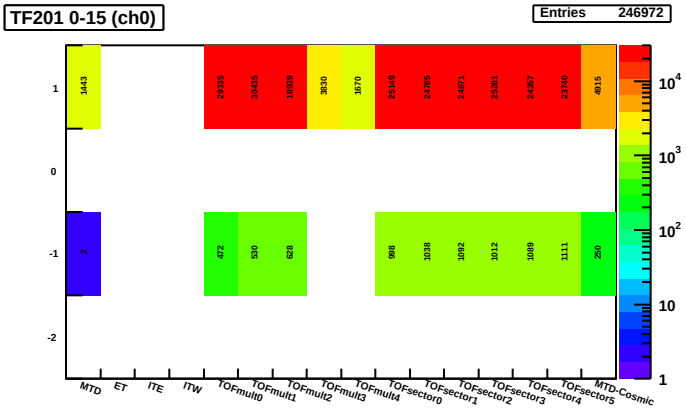

Input to FE002 QT board
Entries 9.771811e+07
ADC
channel

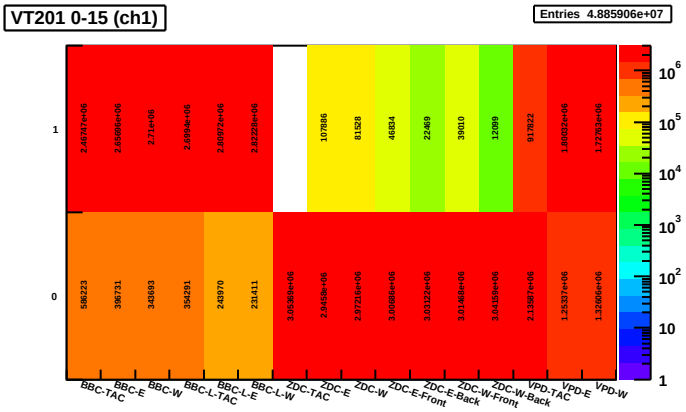

Input to FE003 QT board
Entries 9.771811e+07
ADC
channel

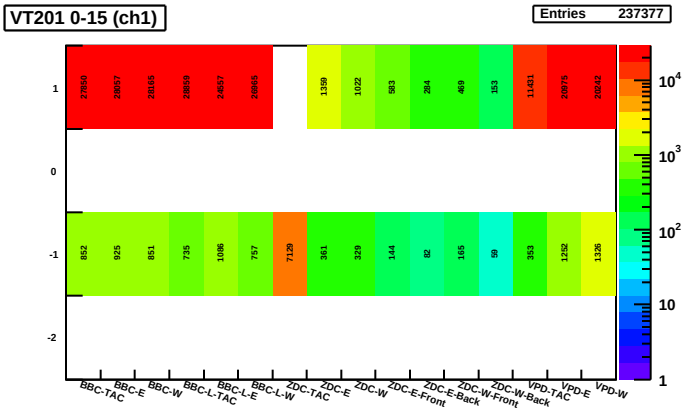

Input to FE004 QT board
Entries 9.771811e+07
ADC
channel


Input to FPE L1 DSM
Entries 1.221476e+07
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 4.885906e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 246972
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 4.885906e+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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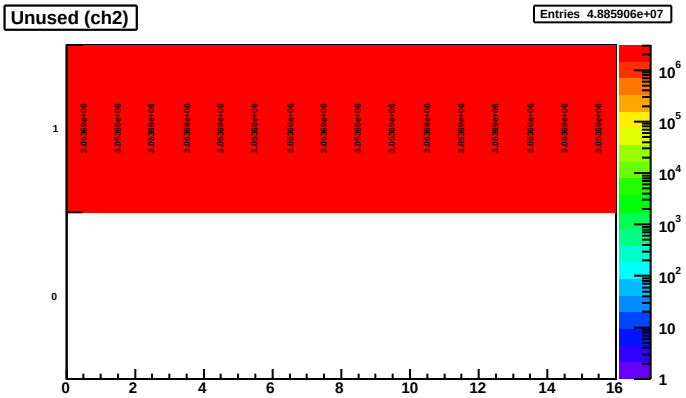
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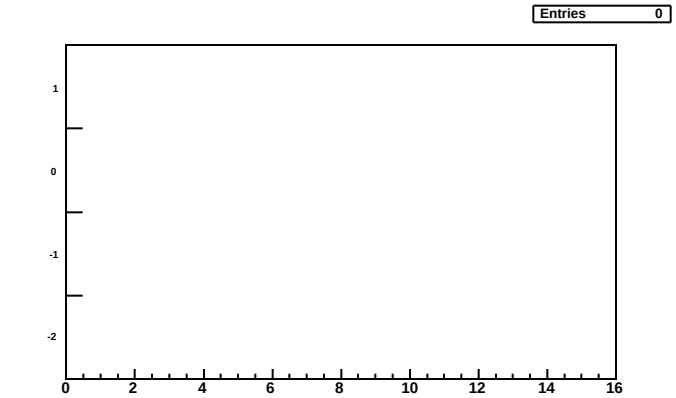
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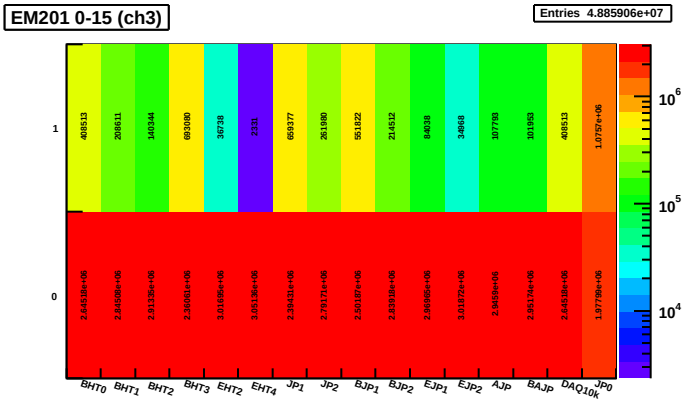
EM201 0-15 (ch3)
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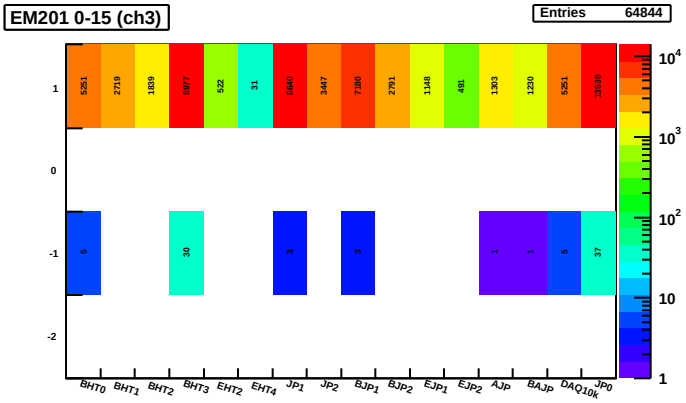
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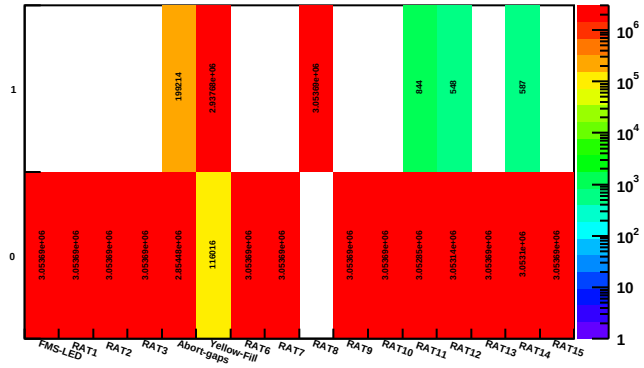
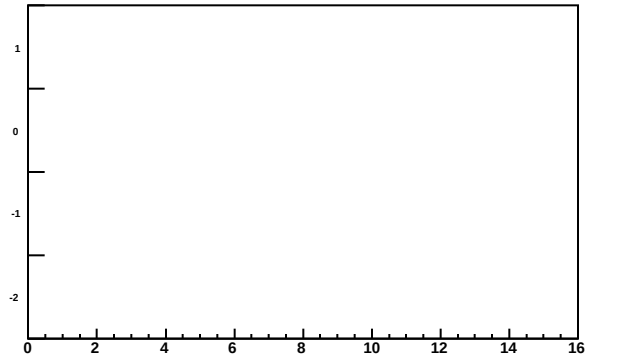
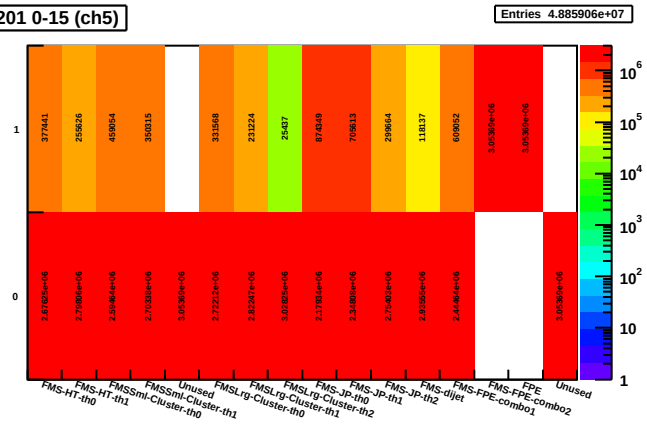
RAT board (ch4)





FP201 0-15 (ch5)



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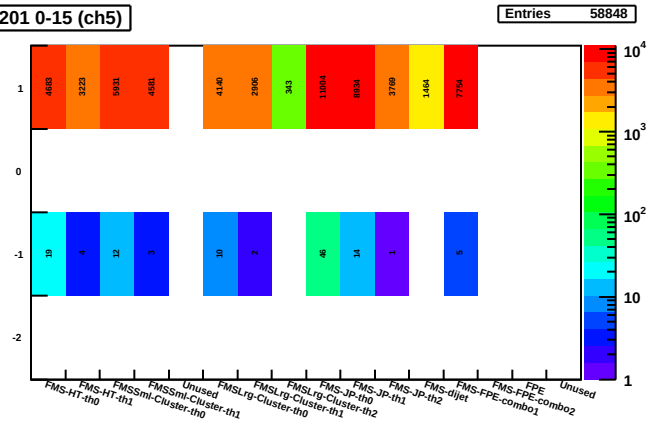
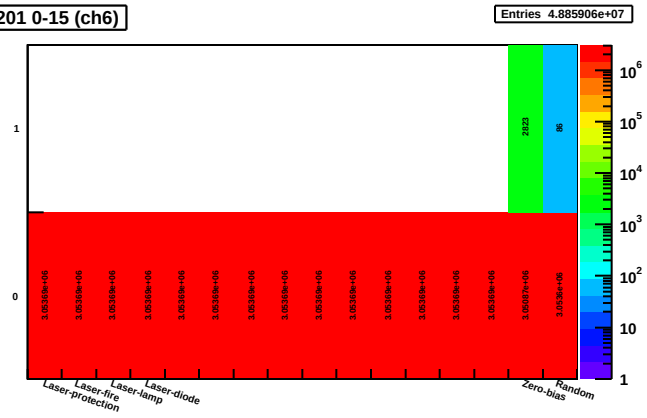
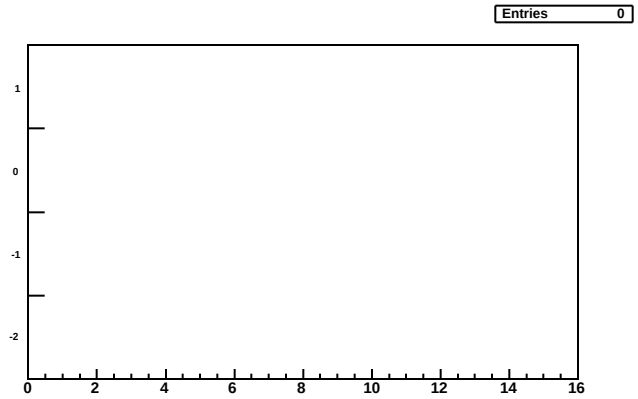
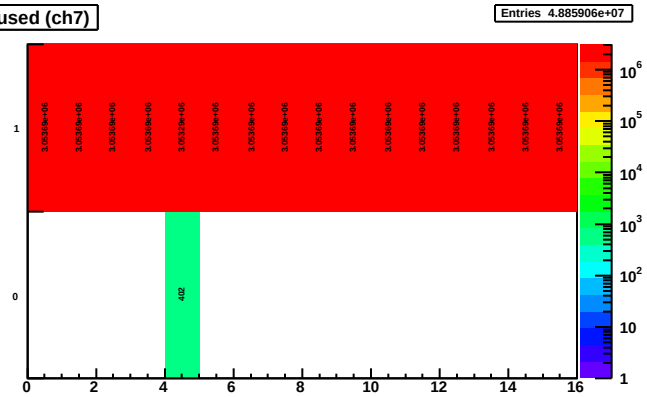
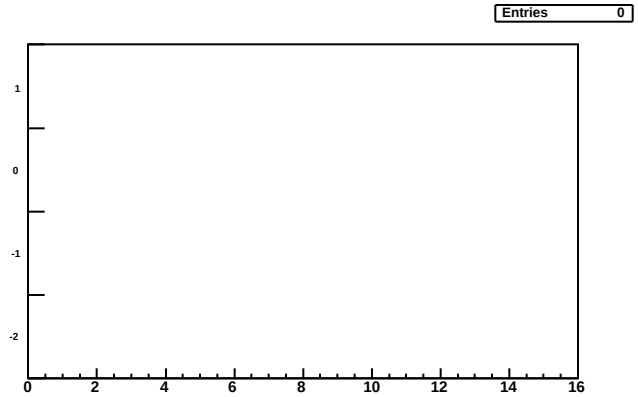


ST201 0-15 (ch6)





Unused (ch7)