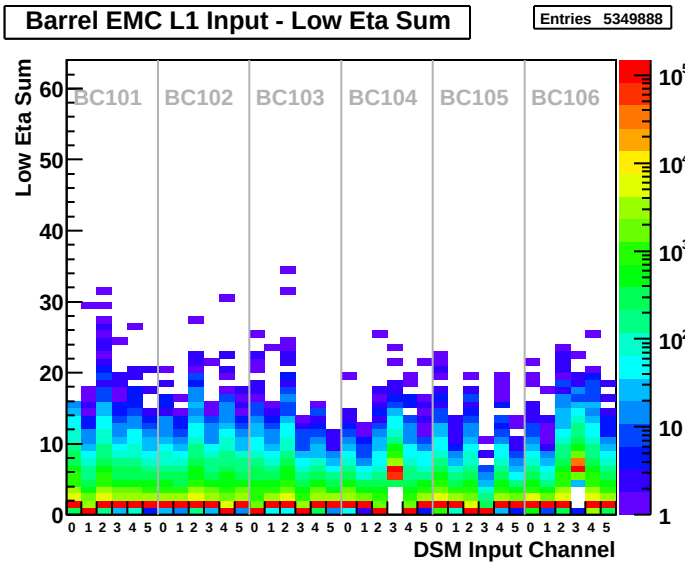
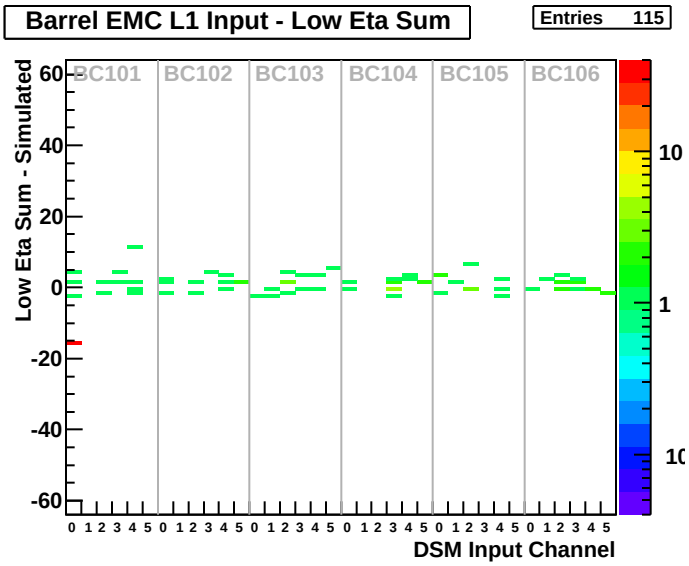
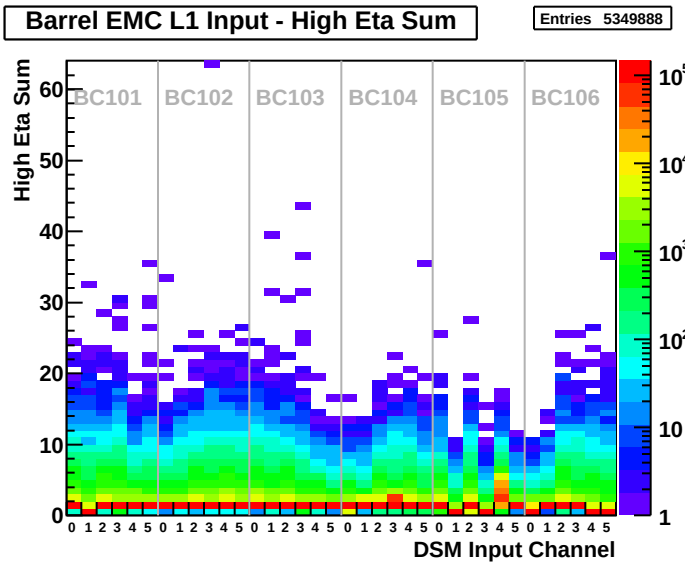
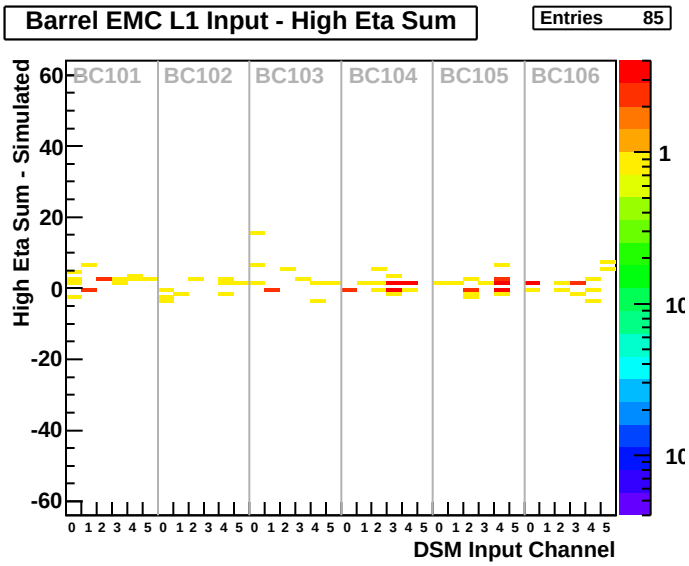
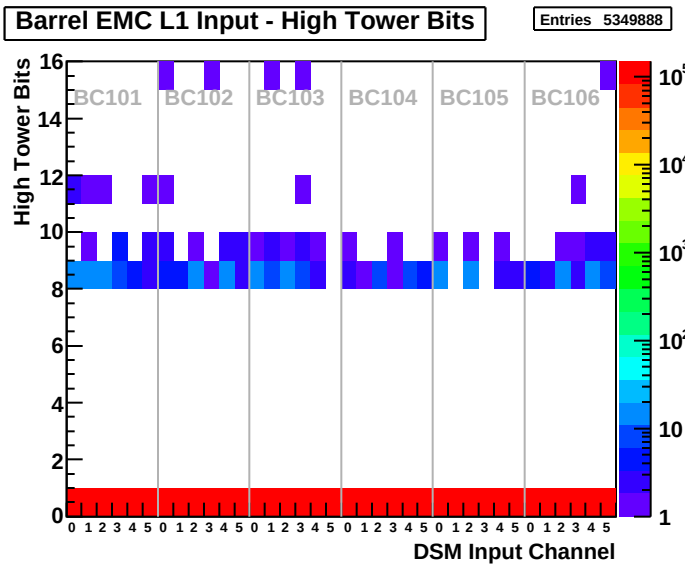
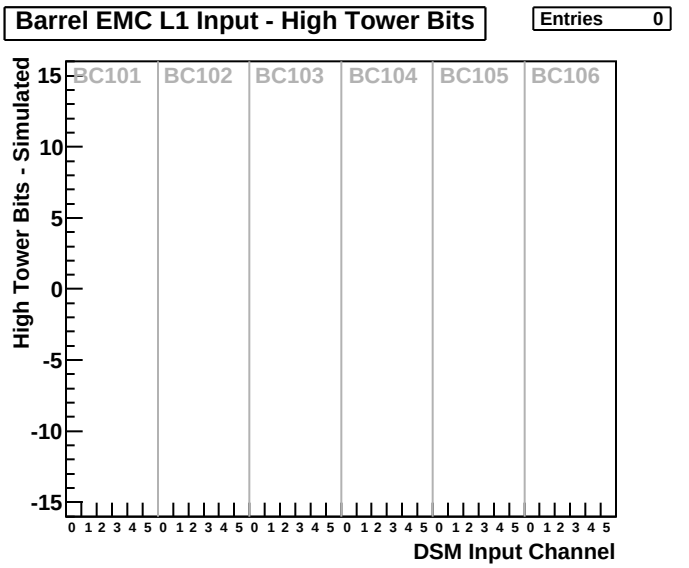

Barrel EMC L1 Input - Low Eta Sum
Entries 5349888
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

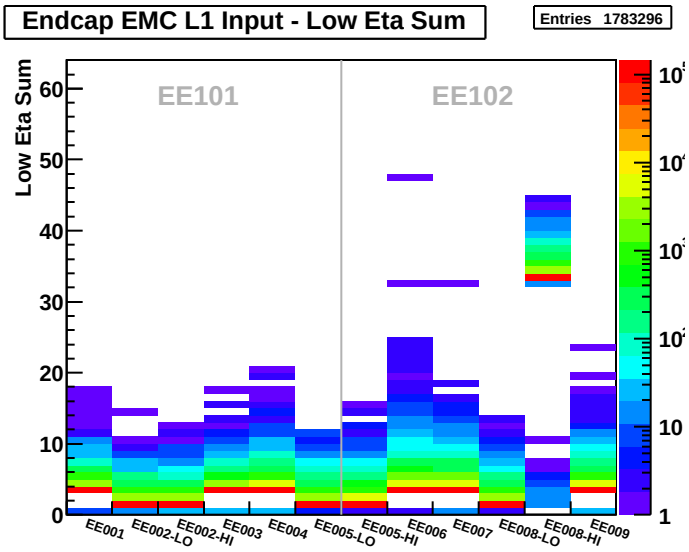

Barrel EMC L1 Input - Low Eta Sum
Entries 115
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

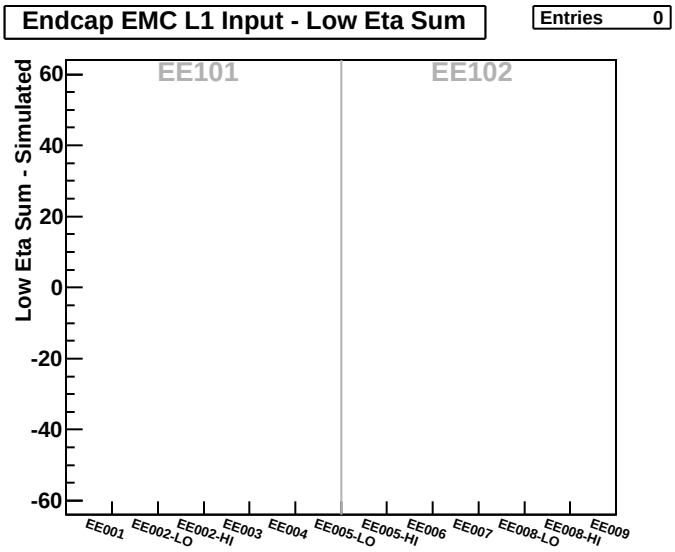

Barrel EMC L1 Input - High Eta Sum
Entries 5349888
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

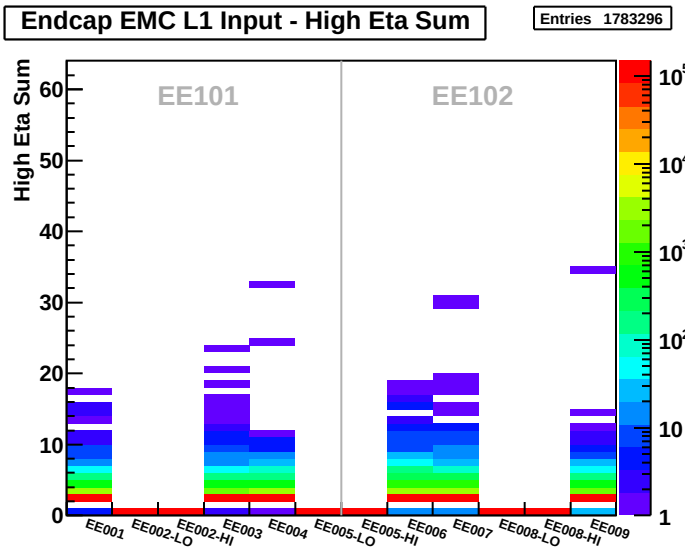

Barrel EMC L1 Input - High Eta Sum
Entries 85
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

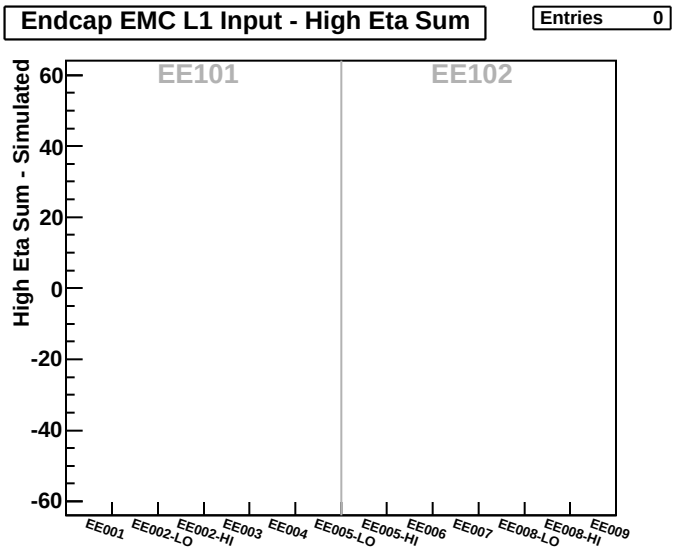

Barrel EMC L1 Input - High Tower Bits
Entries 5349888
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

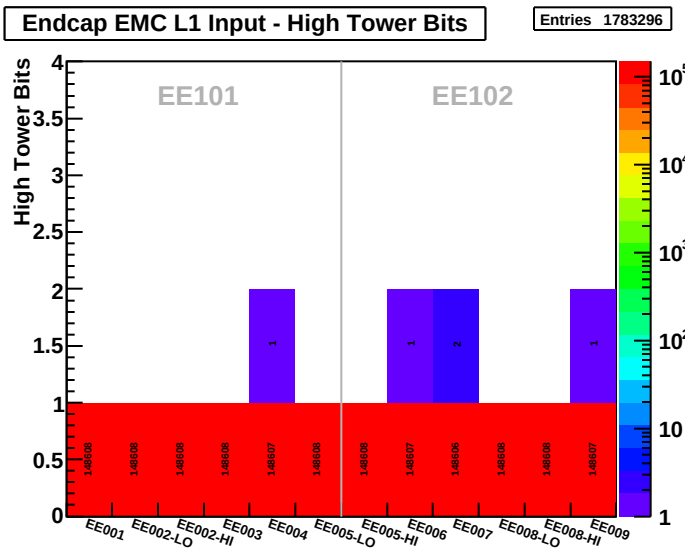

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

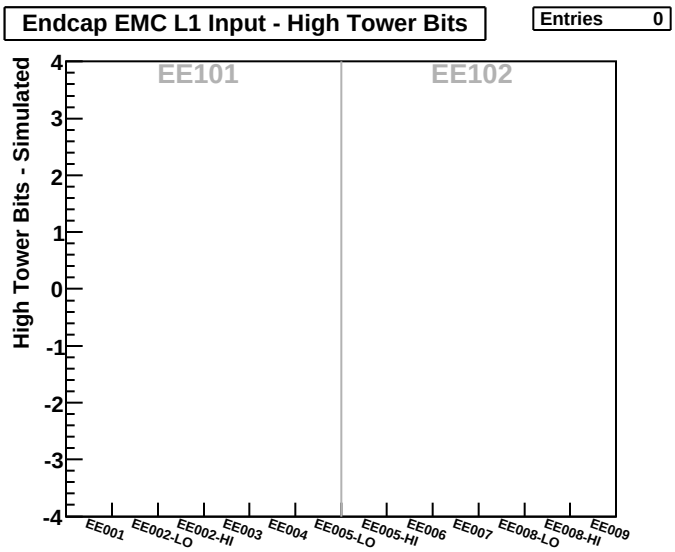

Endcap EMC L1 Input - Low Eta Sum
Entries 1783296
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

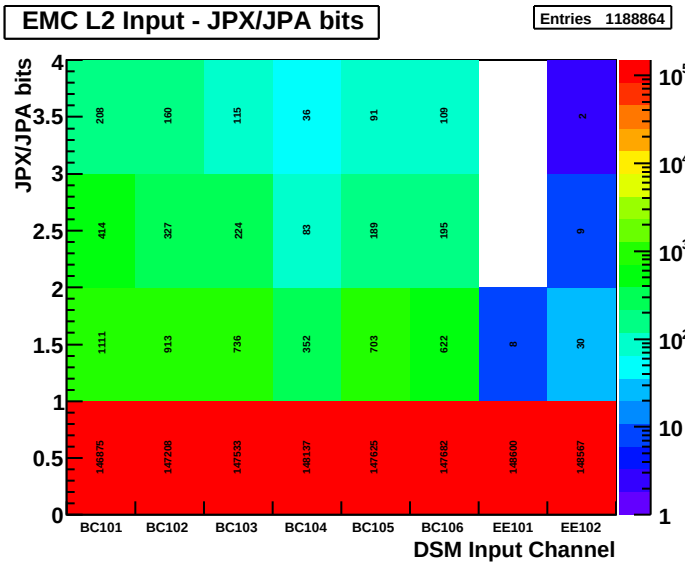

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

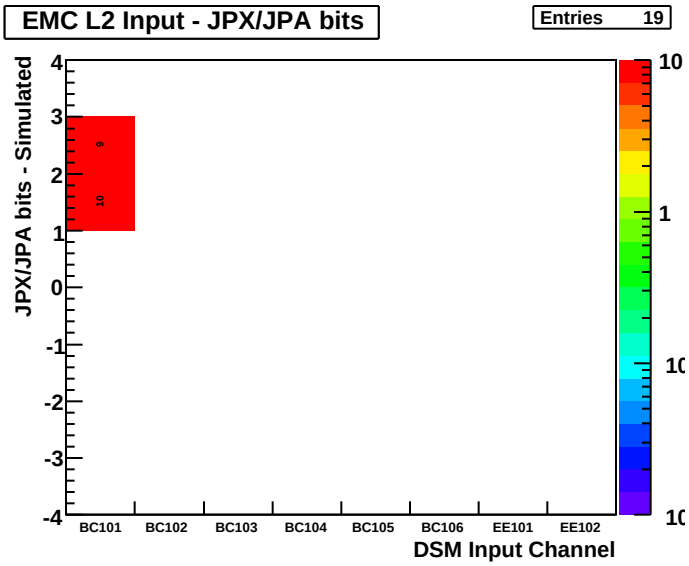

Endcap EMC L1 Input - High Eta Sum
Entries 1783296
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

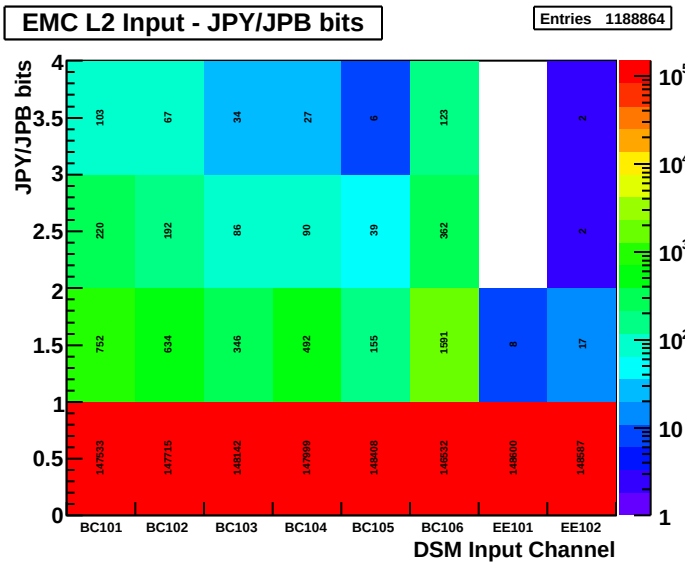

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

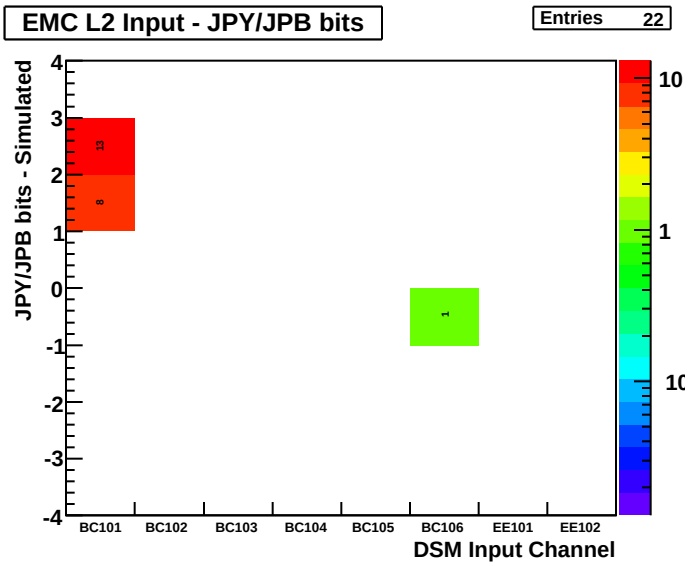

Endcap EMC L1 Input - High Tower Bits
Entries 1783296
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

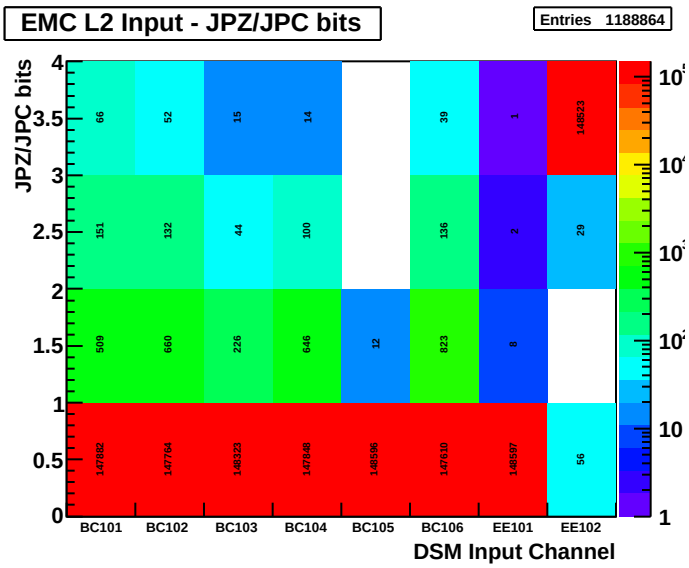

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

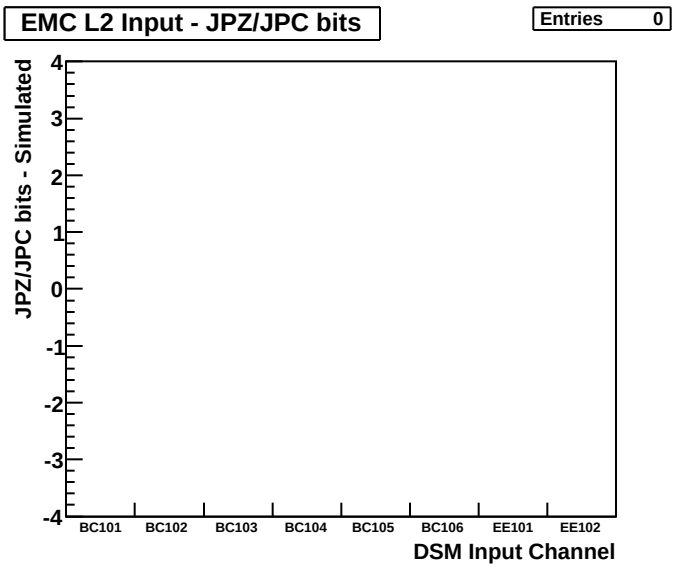

EMC L2 Input - JPX/JPA bits
Entries 1188864
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
208 160 115 36 91 109 2
414 327 224 83 189 195 9
1111 913 736 352 703 622 8 30
146875 147208 147533 148137 147625 147682 148600 148567

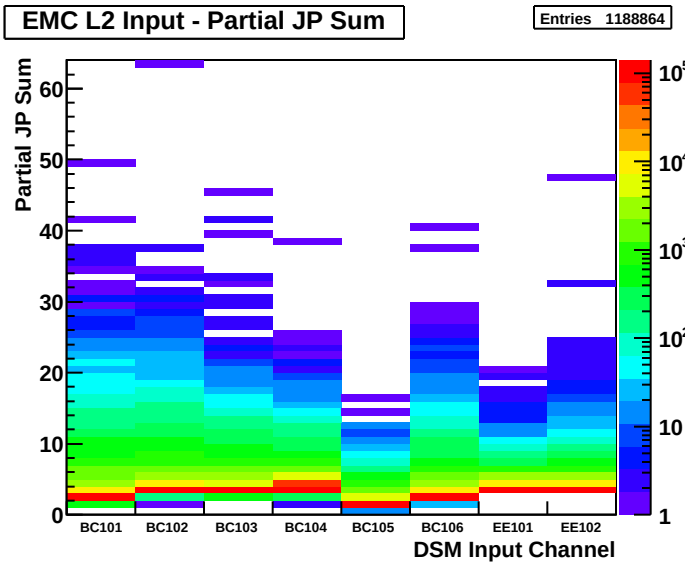

EMC L2 Input - JPX/JPA bits
Entries 19
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9
10

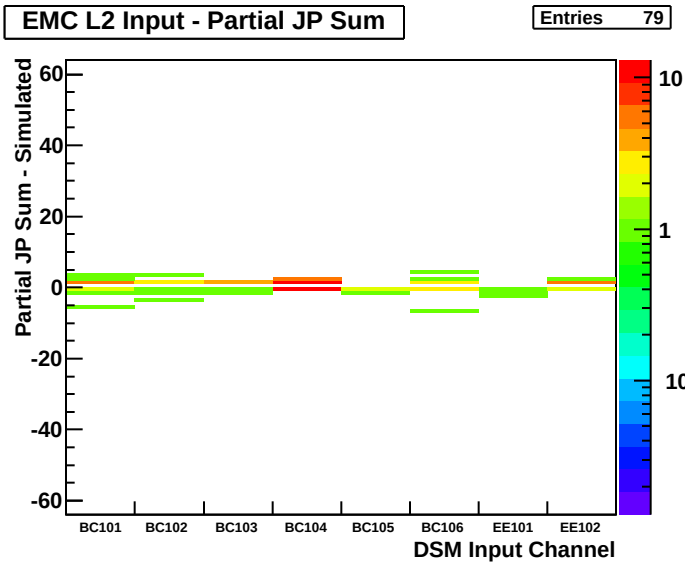

EMC L2 Input - JPY/JPB bits
Entries 1188864
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
103 67 34 27 6 123 2
220 192 86 90 39 362 2
752 634 346 492 155 1591 8 17
147533 147715 148142 147999 148408 146532 148600 148587

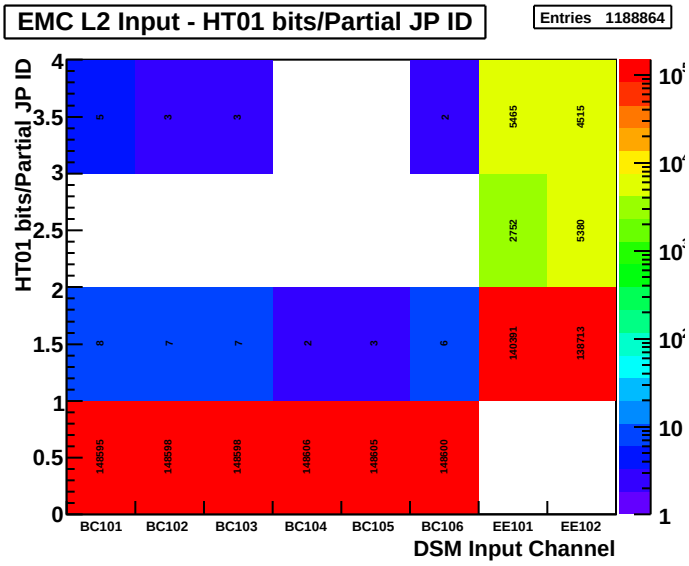

EMC L2 Input - JPY/JPB bits
Entries 22
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
13
8
1

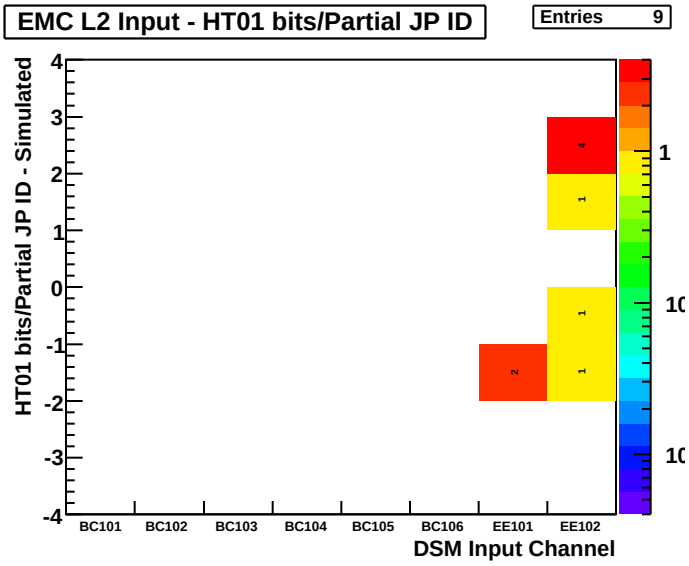

EMC L2 Input - JPZ/JPC bits
Entries 1188864
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
66 52 15 14 39 1 148523
151 132 44 100 136 2 29
509 660 226 646 12 823 8
147882 147764 148323 147848 148596 147610 148597 56

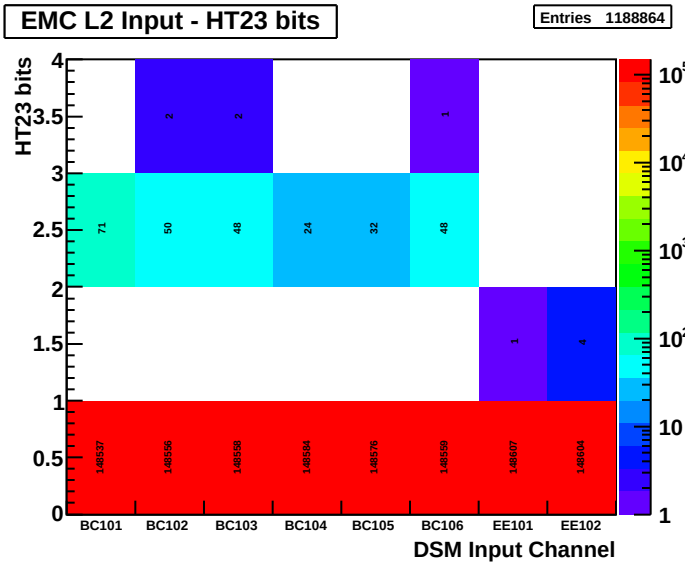

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

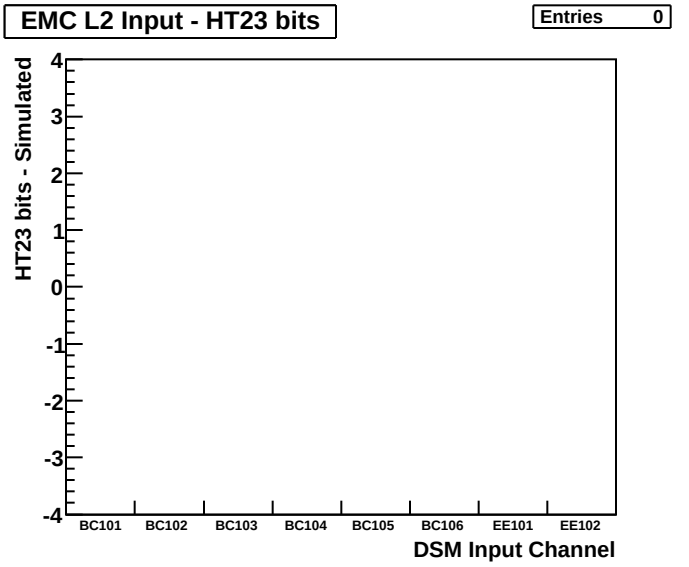

EMC L2 Input - Partial JP Sum
Entries 1188864
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

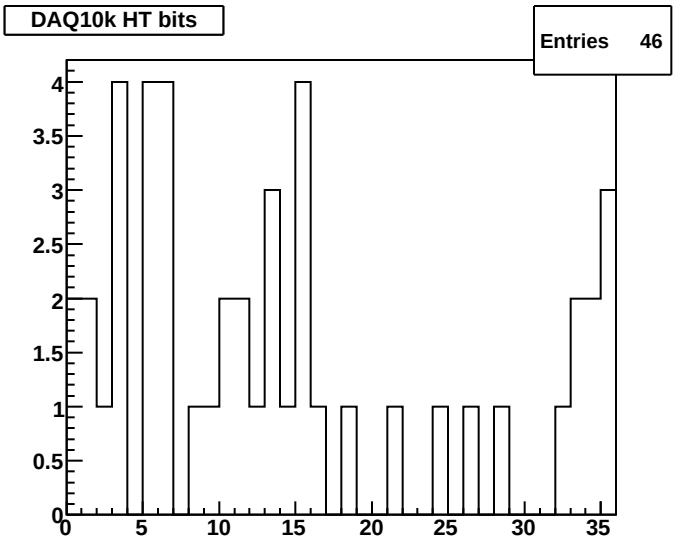

EMC L2 Input - Partial JP Sum
Entries 79
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

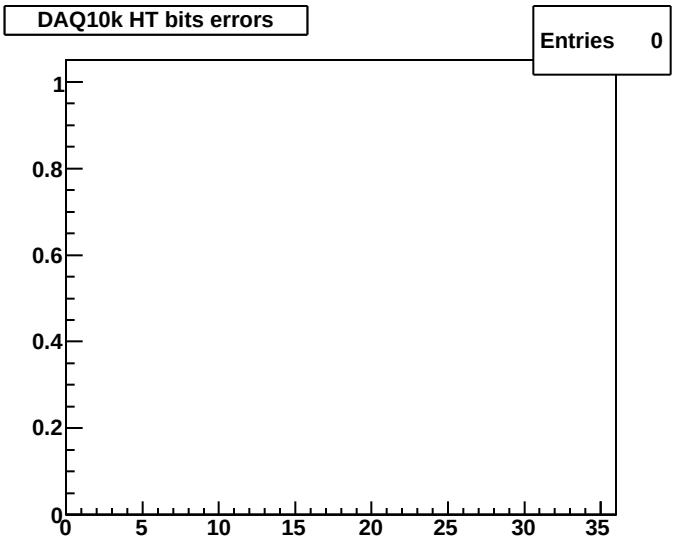

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1188864
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

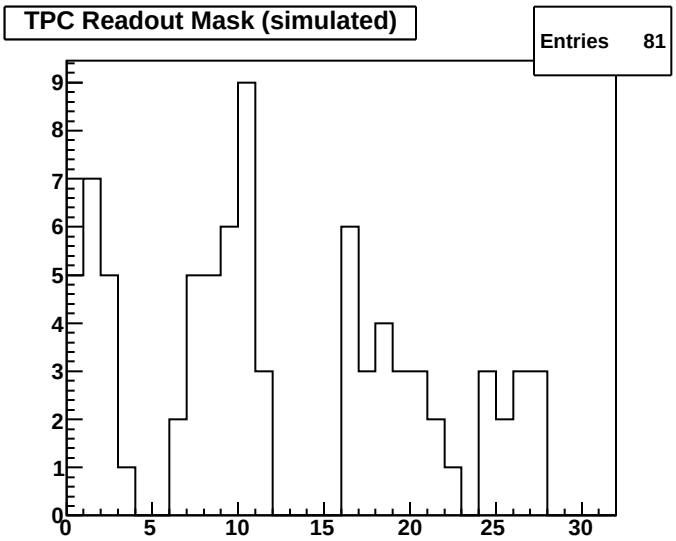

EMC L2 Input - HT01 bits/Partial JP ID
Entries 9
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

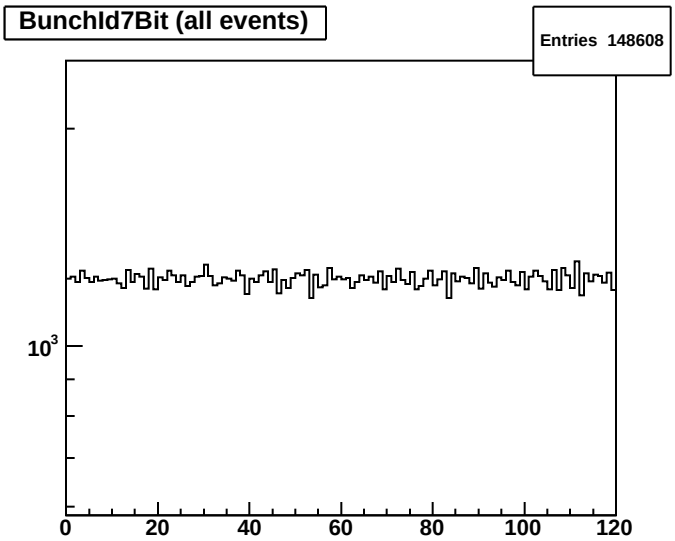

EMC L2 Input - HT23 bits
Entries 1188864
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

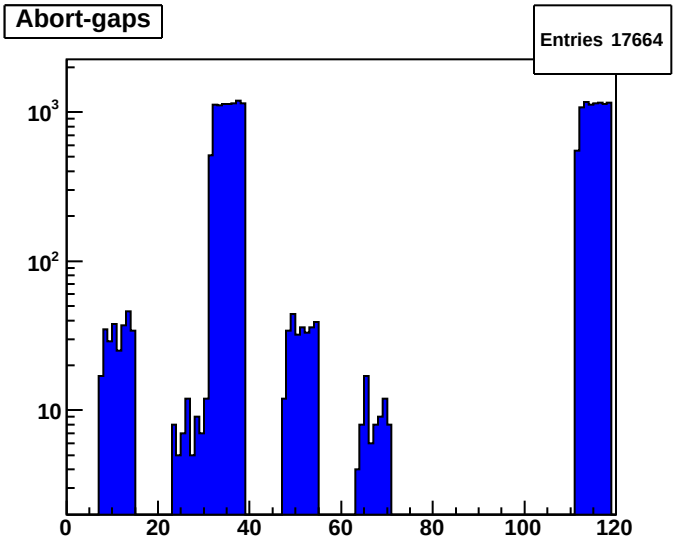

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

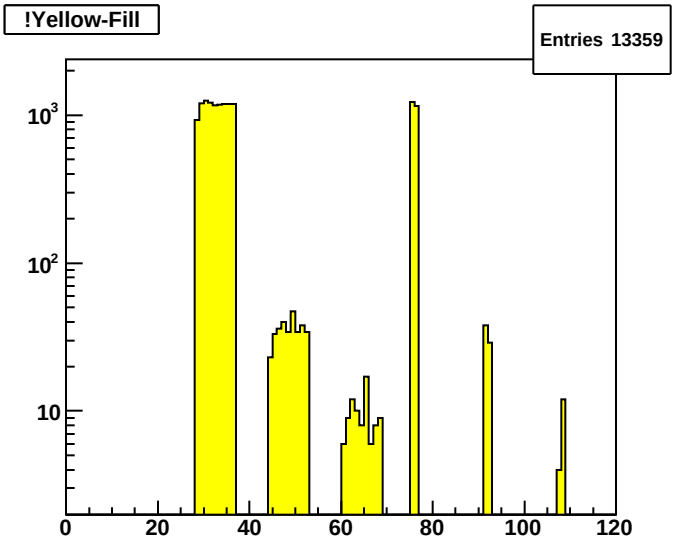

DAQ10k HT bits
Entries 46

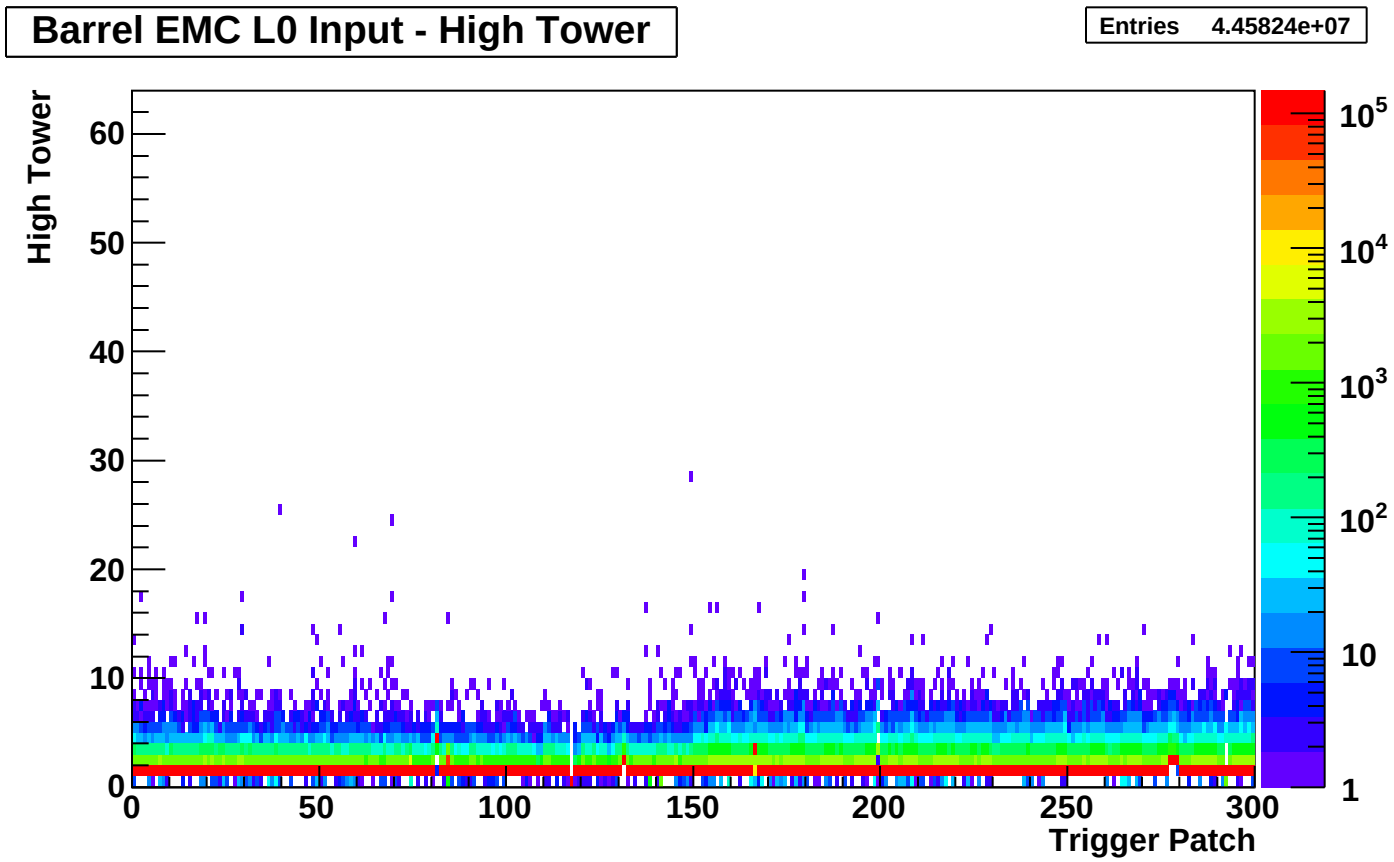

DAQ10k HT bits errors
Entries 0

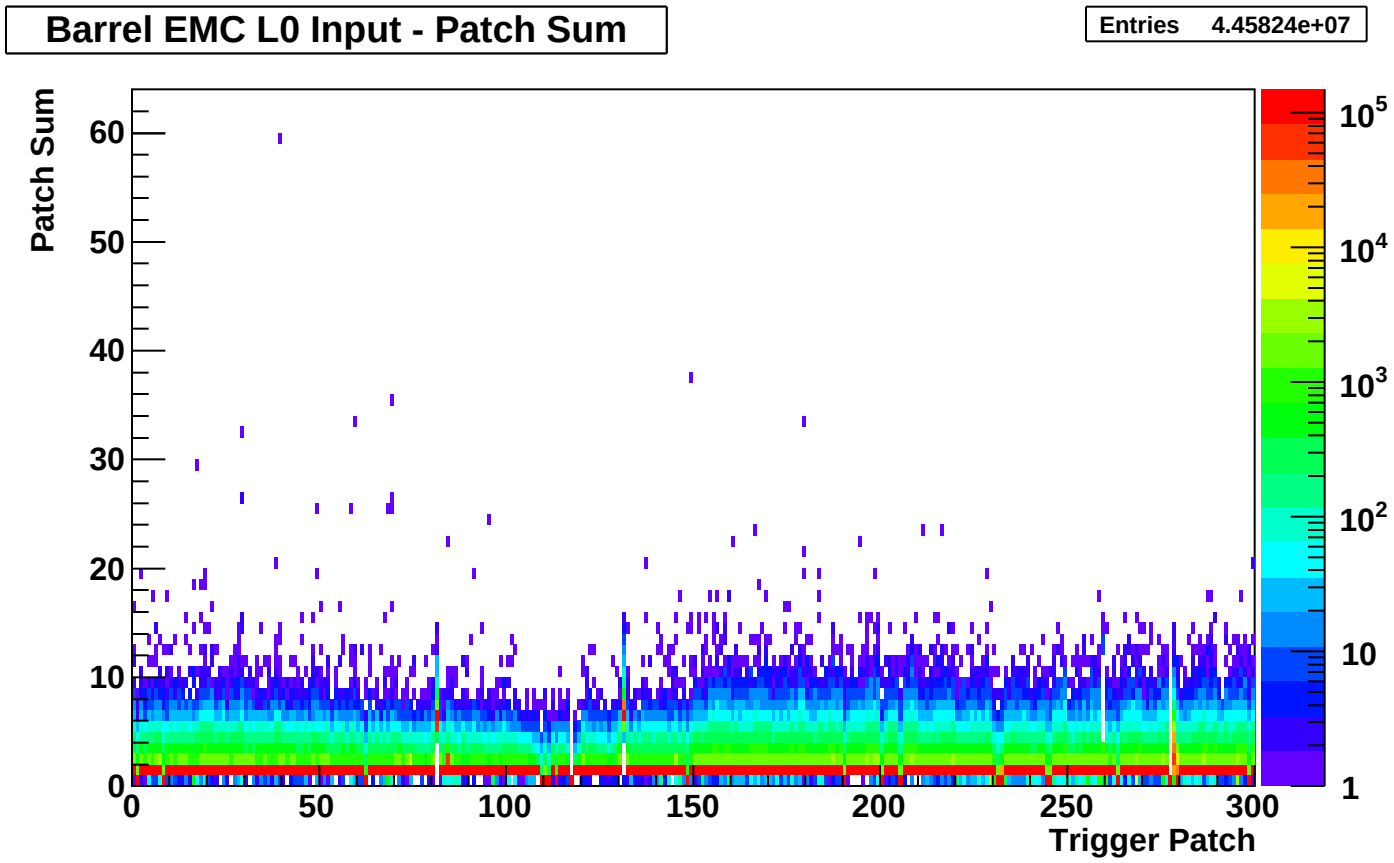

TPC Readout Mask (simulated)
Entries 81

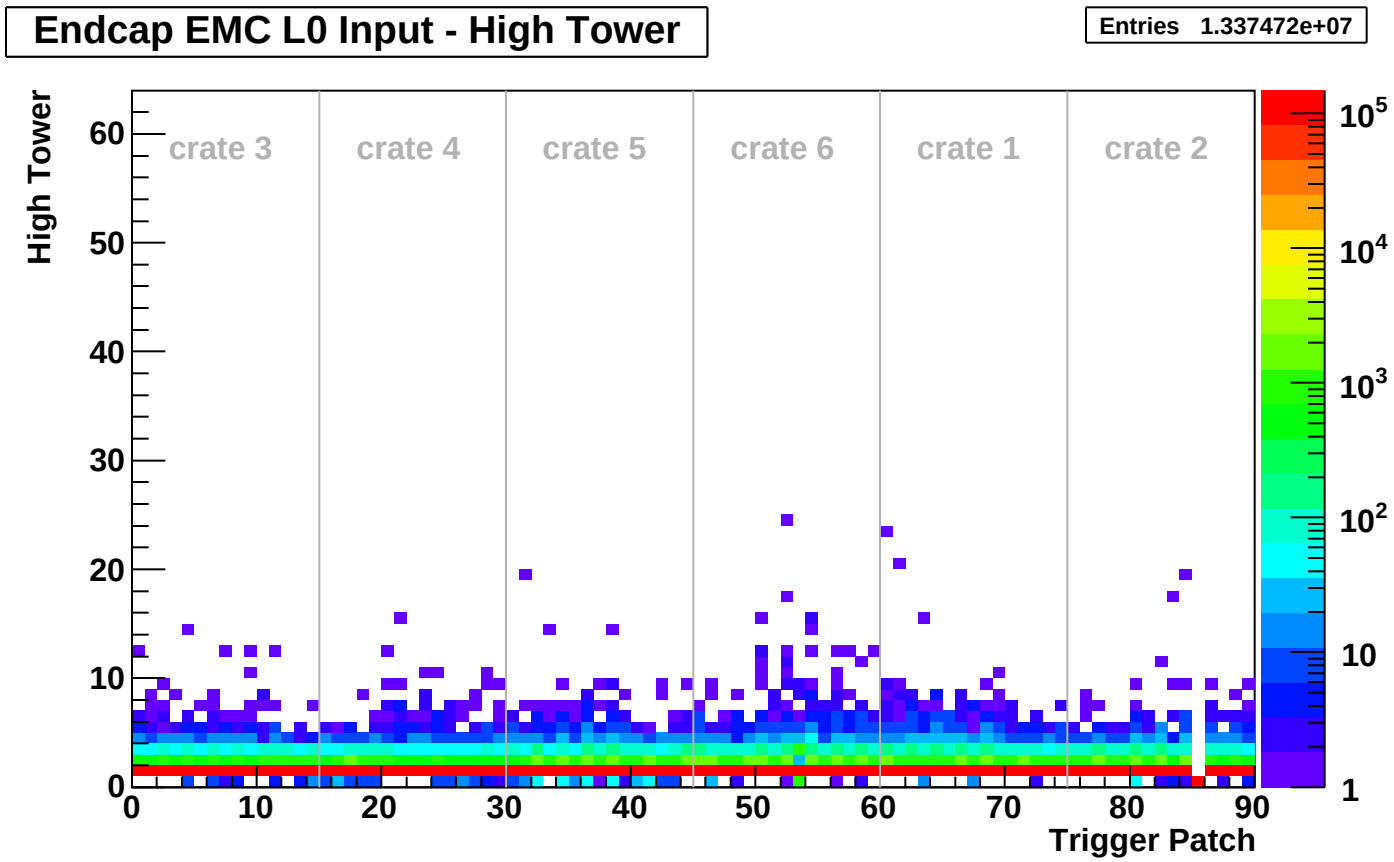

BunchId7Bit (all events)
Entries 148608

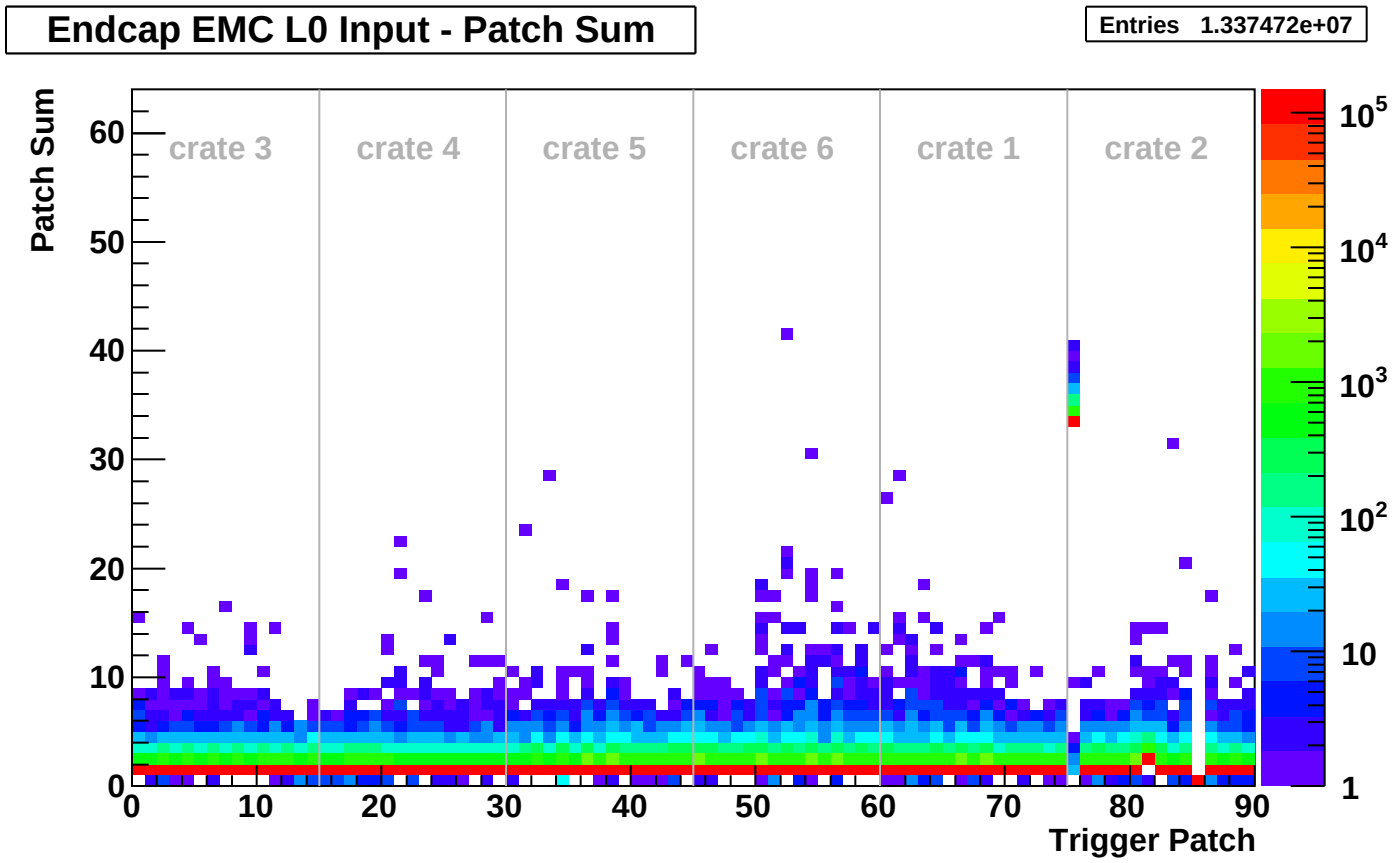

Abort-gaps
Entries 17664

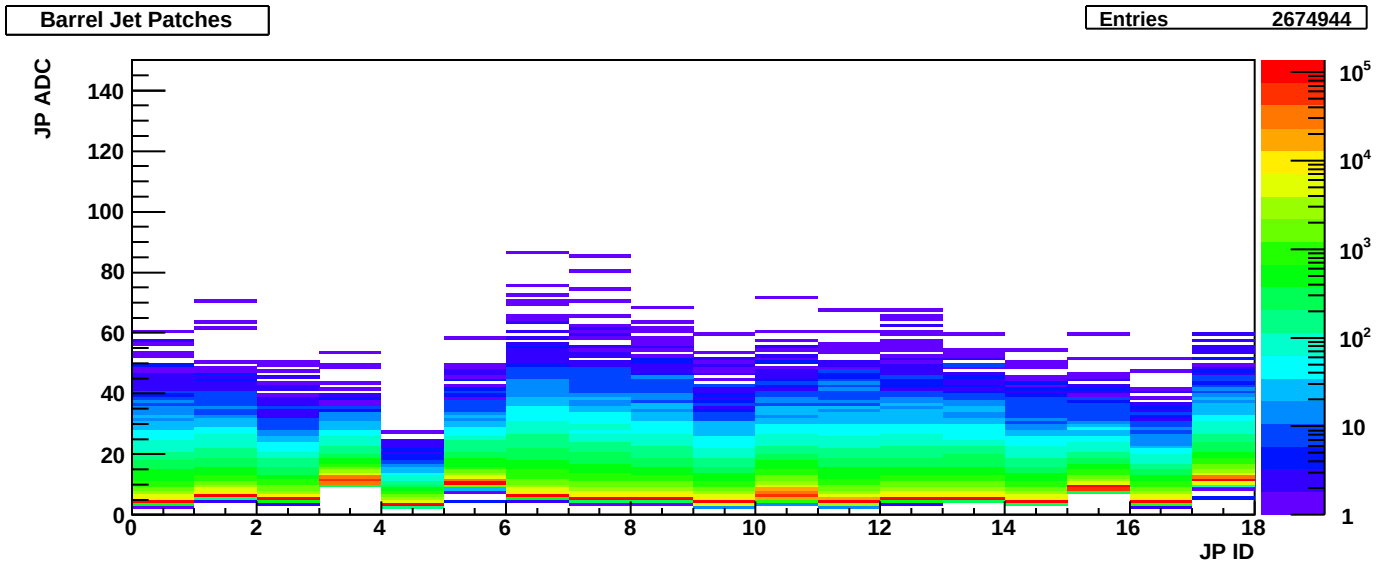

!Yellow-Fill
Entries 13359

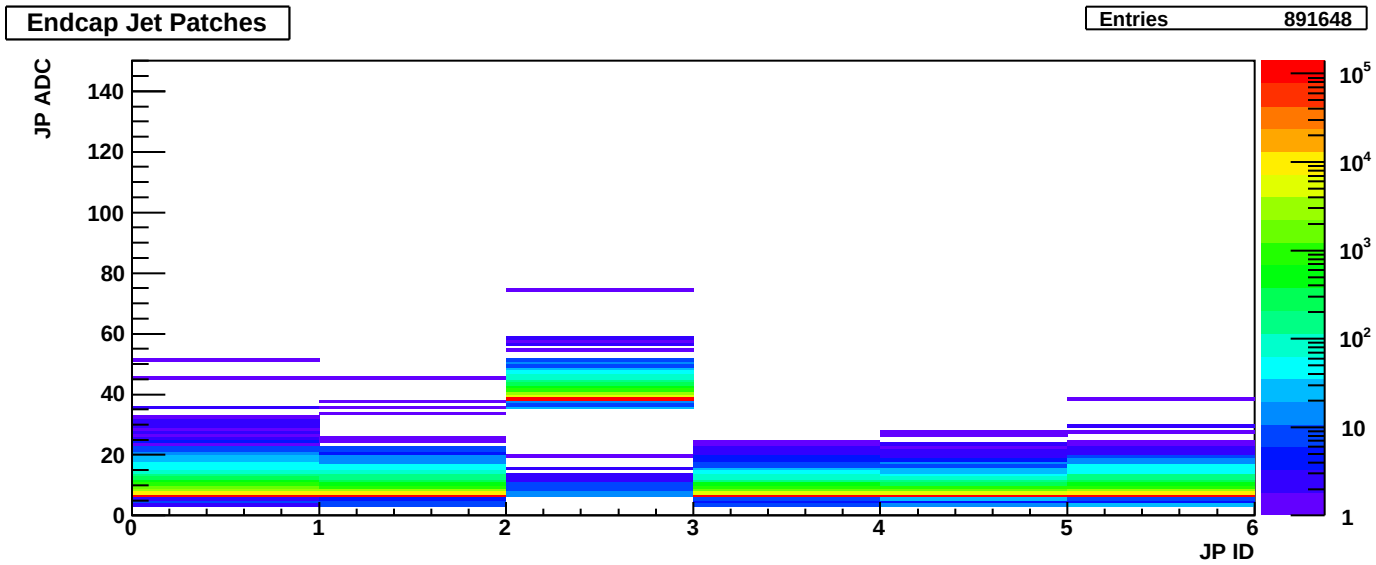

Barrel EMC L0 Input - High Tower
Entries 4.45824e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

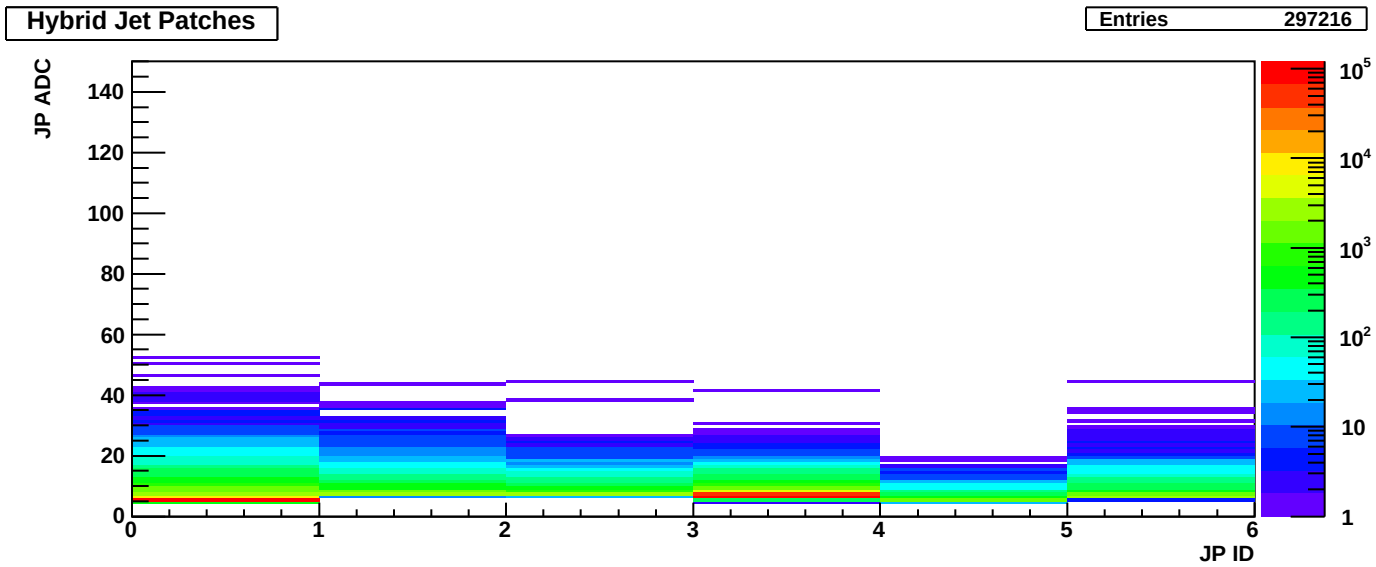

Barrel EMC L0 Input - Patch Sum
Entries 4.45824e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

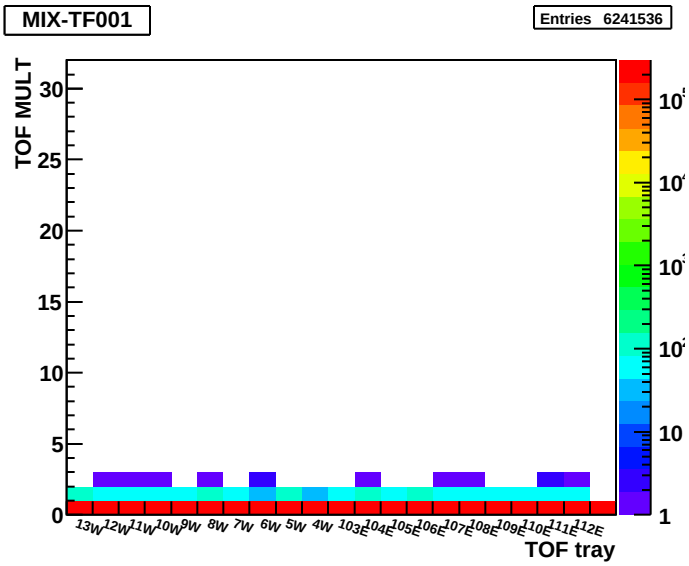

Endcap EMC L0 Input - High Tower
Entries 1.337472e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

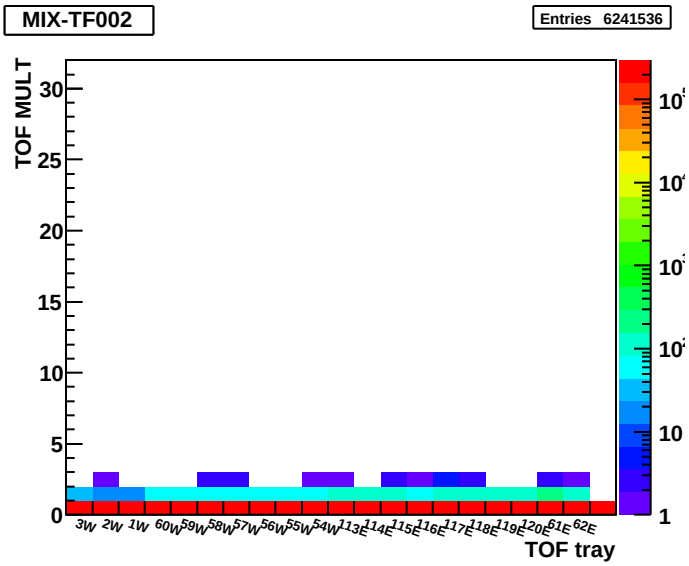

Endcap EMC L0 Input - Patch Sum
Entries 1.337472e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

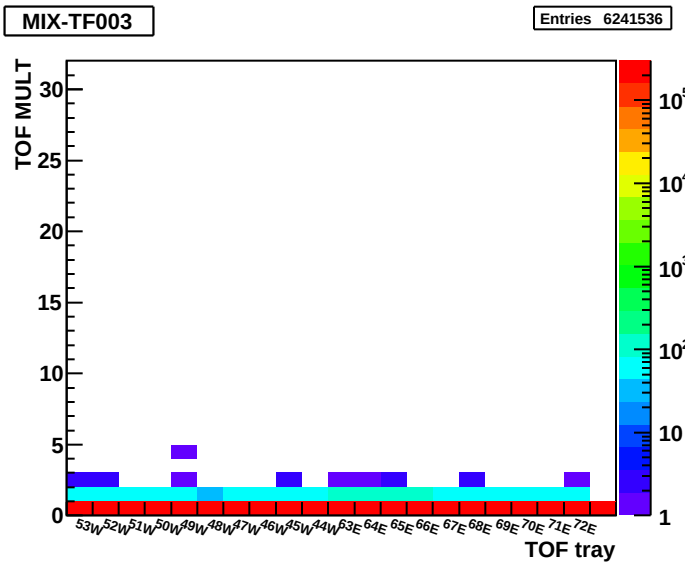

Barrel Jet Patches
Entries 2674944
JP ADC
JP ID

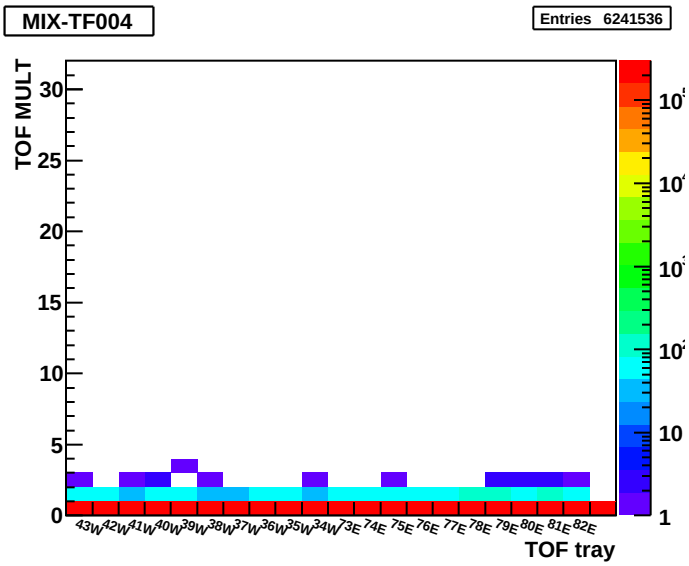

Endcap Jet Patches
Entries 891648
JP ADC
JP ID

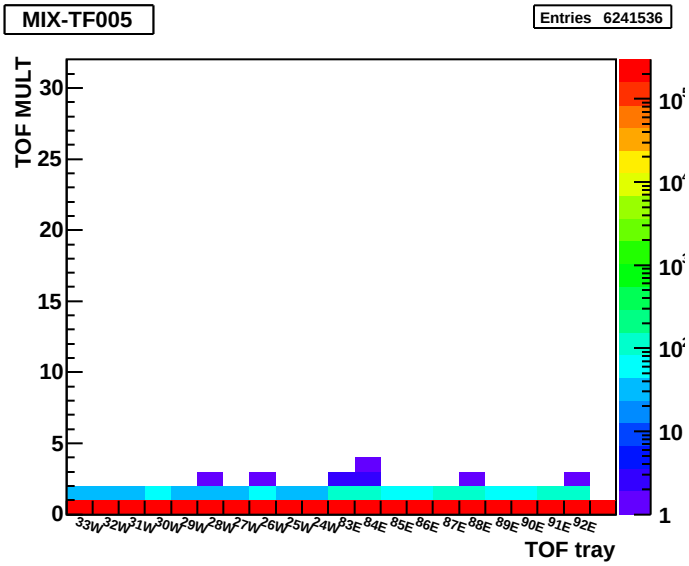

Hybrid Jet Patches
Entries 297216
JP ADC
JP ID

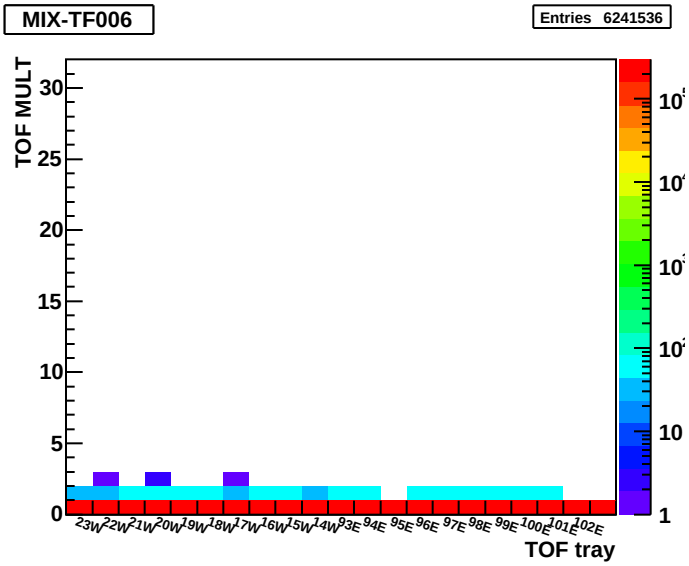

MIX-TF001
Entries 6241536
TOF MULT
TOF tray

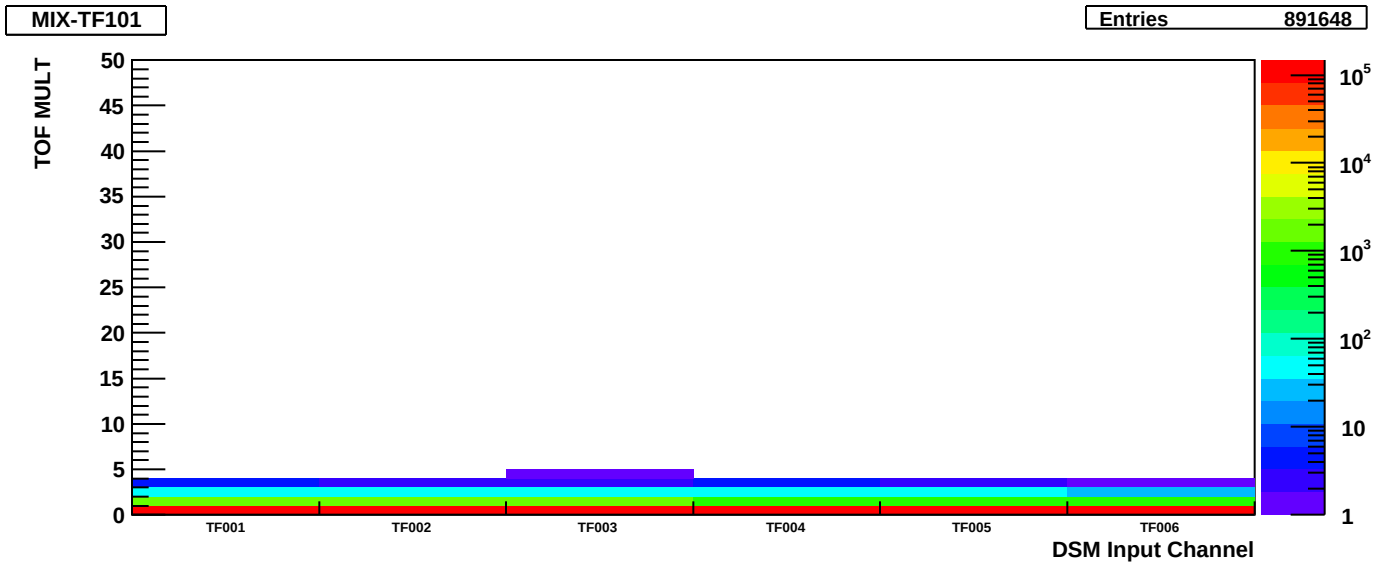

MIX-TF002
Entries 6241536
TOF MULT
TOF tray

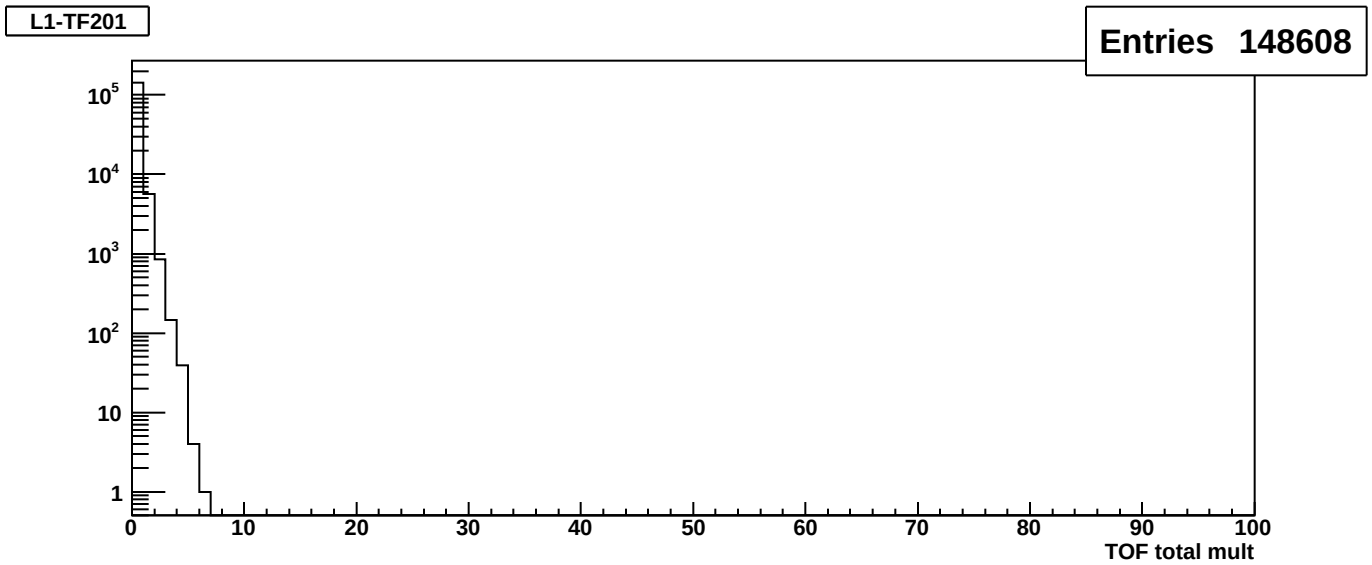

MIX-TF003
Entries 6241536
TOF MULT
TOF tray

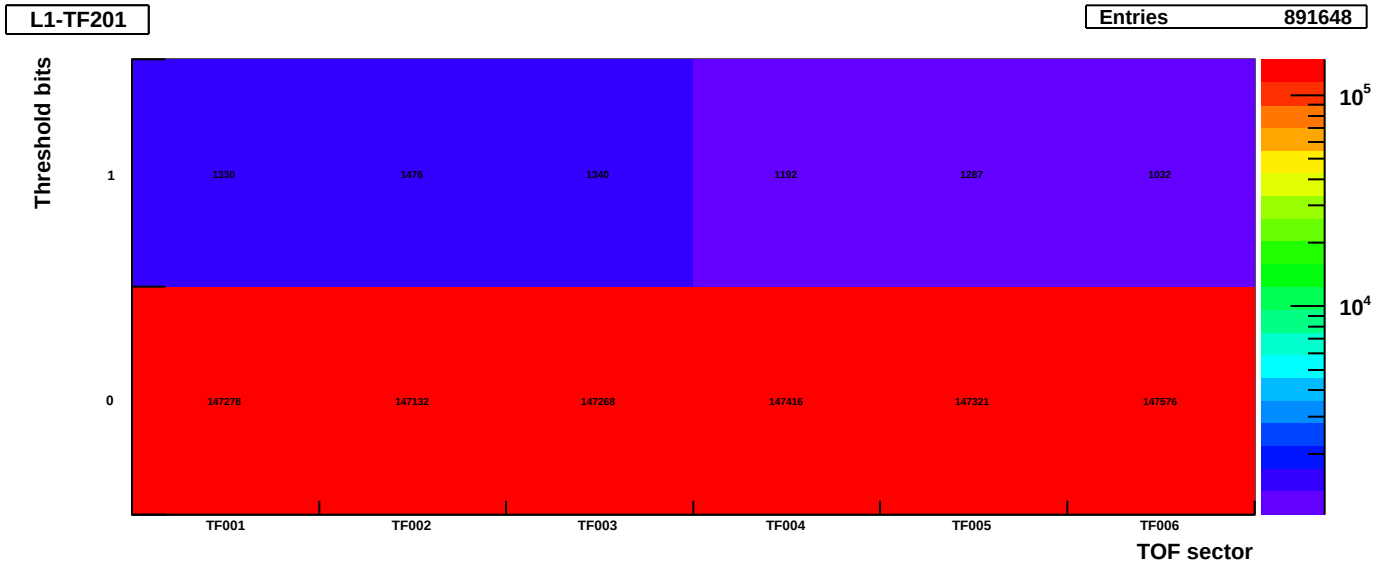

MIX-TF004
Entries 6241536
TOF MULT
TOF tray

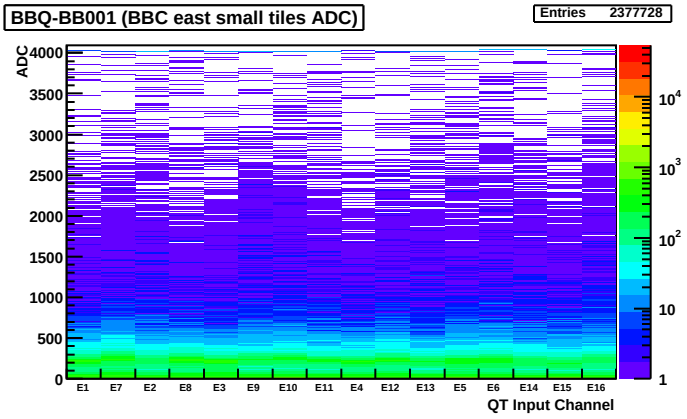

MIX-TF005
Entries 6241536
TOF MULT
TOF tray

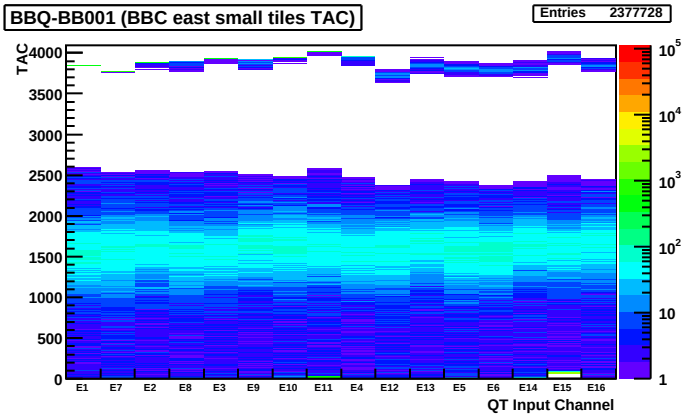

MIX-TF006
Entries 6241536
TOF MULT
TOF tray

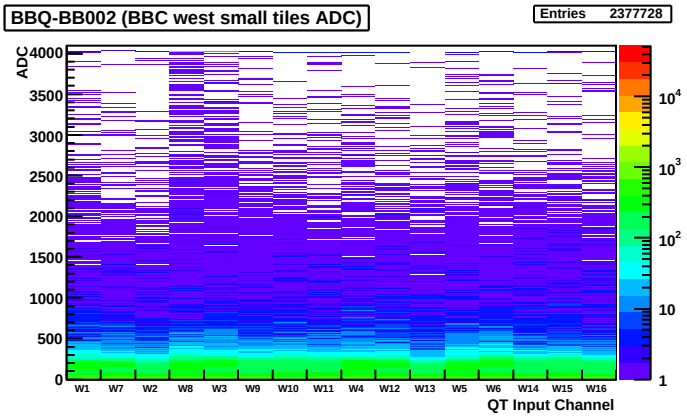

MIX-TF101
Entries 891648
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

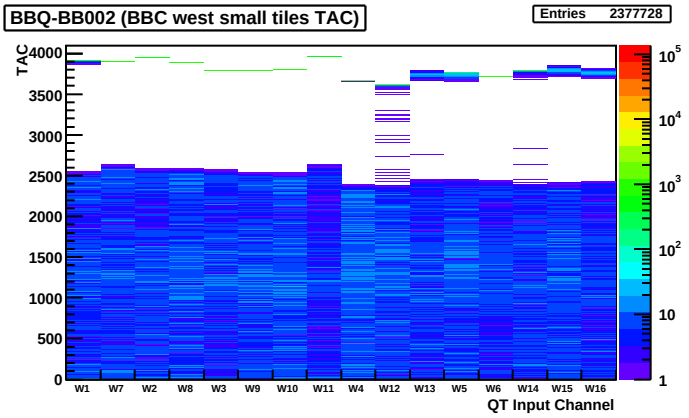

L1-TF201
Entries 148608
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

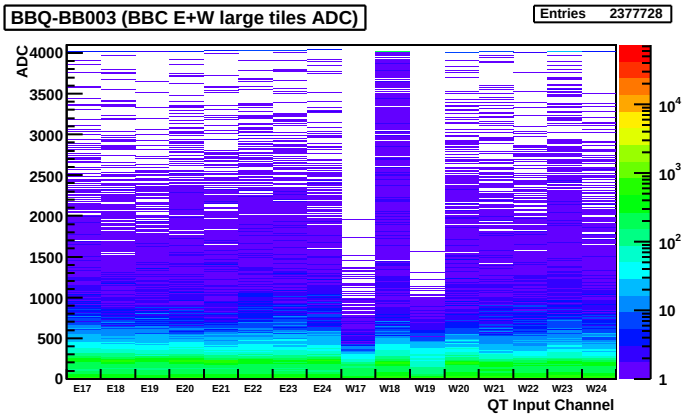

L1-TF201
Entries 891648
Threshold bits
1
0
1330
1476
1340
1192
1287
1032
147278
147132
147268
147416
147321
147576
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

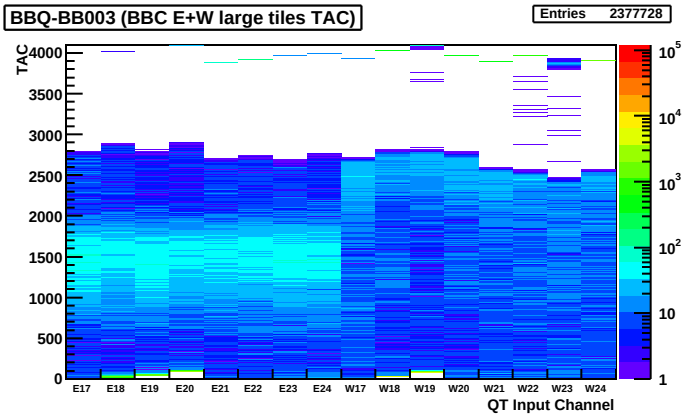

BBQ-BB001 (BBC east small tiles ADC)
Entries 2377728
ADC
QT Input Channel

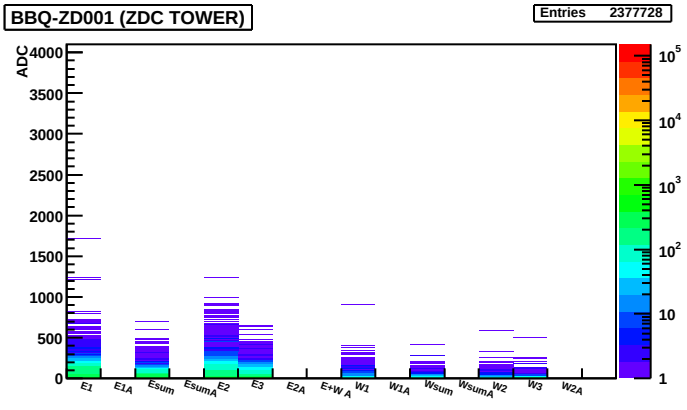

BBQ-BB001 (BBC east small tiles TAC)
Entries 2377728
TAC
QT Input Channel

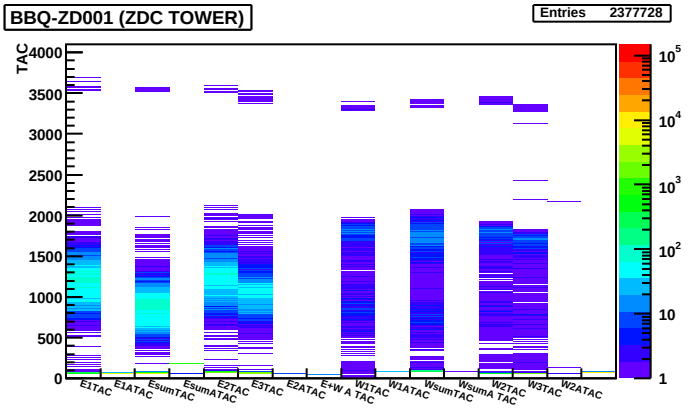

BBQ-BB002 (BBC west small tiles ADC)
Entries 2377728
ADC
QT Input Channel

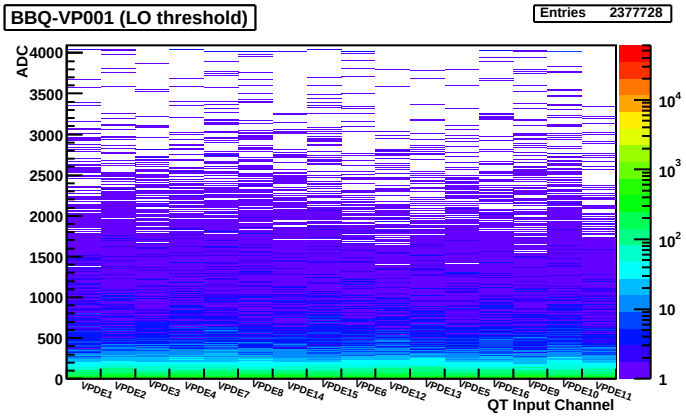

BBQ-BB002 (BBC west small tiles TAC)
Entries 2377728
TAC
QT Input Channel

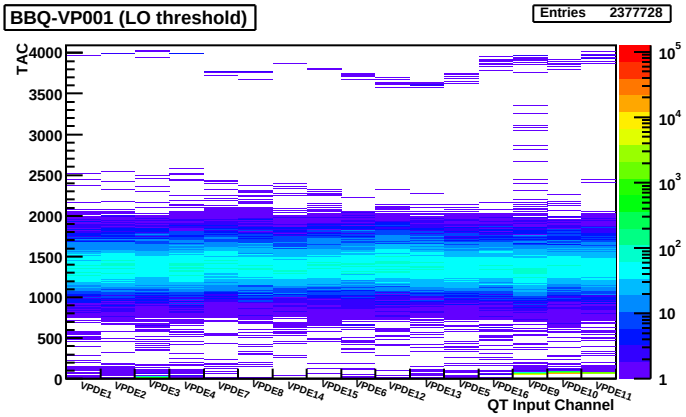

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2377728
ADC
QT Input Channel

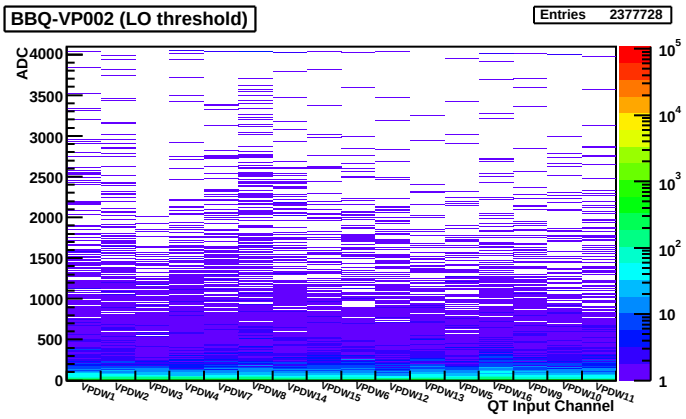

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2377728
TAC
QT Input Channel

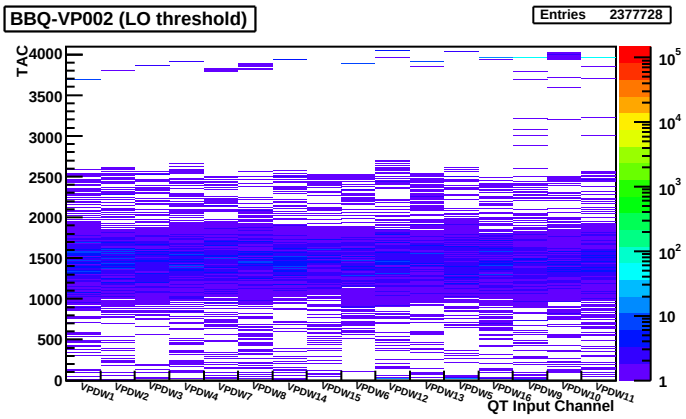

BBQ-ZD001 (ZDC TOWER)
Entries 2377728
ADC

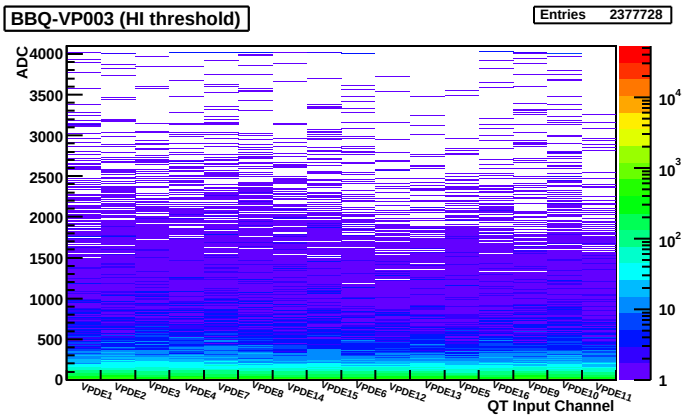

BBQ-ZD001 (ZDC TOWER)
Entries 2377728
TAC

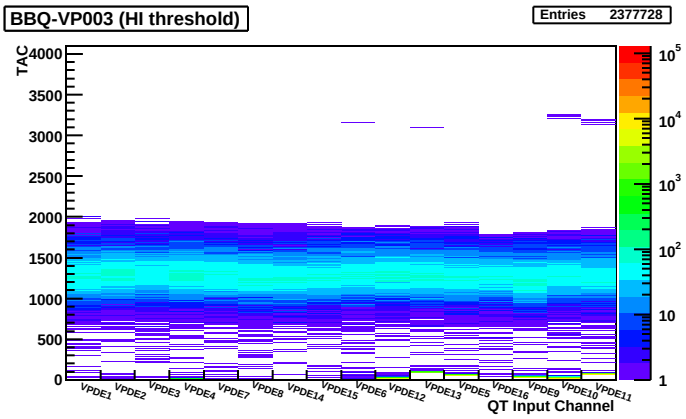

BBQ-VP001 (LO threshold)
Entries 2377728
ADC
QT Input Channel

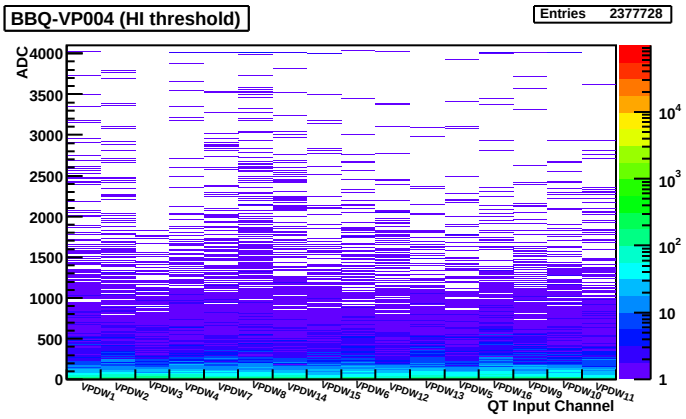

BBQ-VP001 (LO threshold)
Entries 2377728
TAC
QT Input Channel

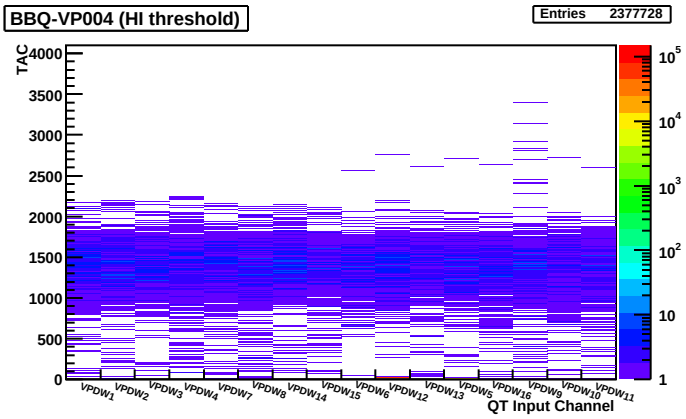

BBQ-VP002 (LO threshold)
Entries 2377728
ADC
QT Input Channel

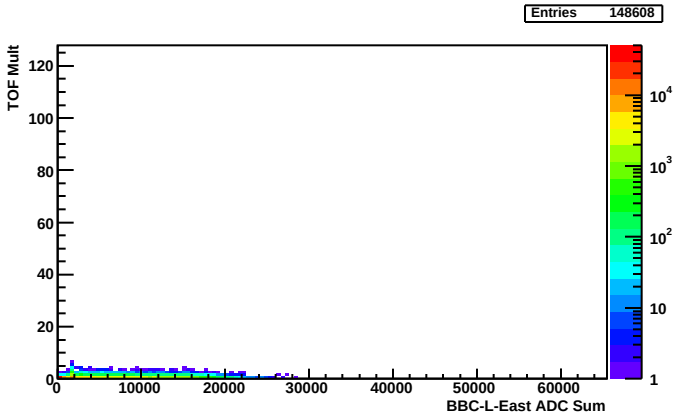

BBQ-VP002 (LO threshold)
Entries 2377728
TAC
QT Input Channel

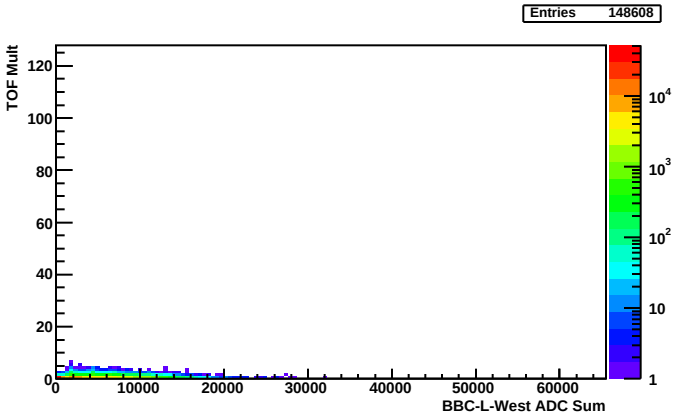

BBQ-VP003 (HI threshold)
Entries 2377728
ADC
QT Input Channel

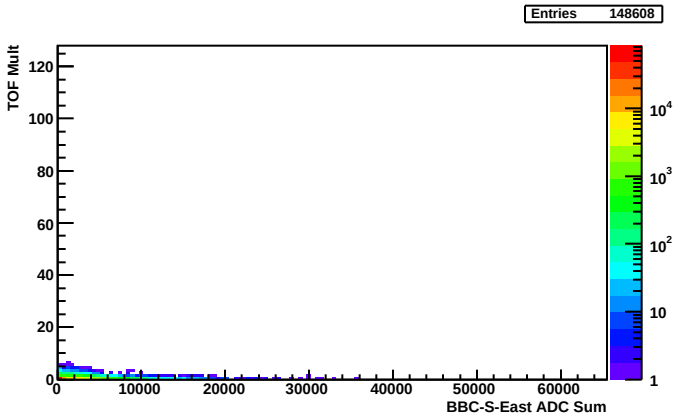

BBQ-VP003 (HI threshold)
Entries 2377728
TAC
QT Input Channel

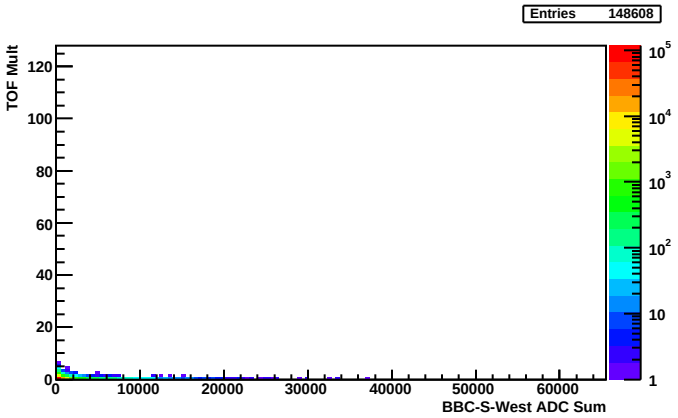

BBQ-VP004 (HI threshold)
Entries 2377728
ADC
QT Input Channel

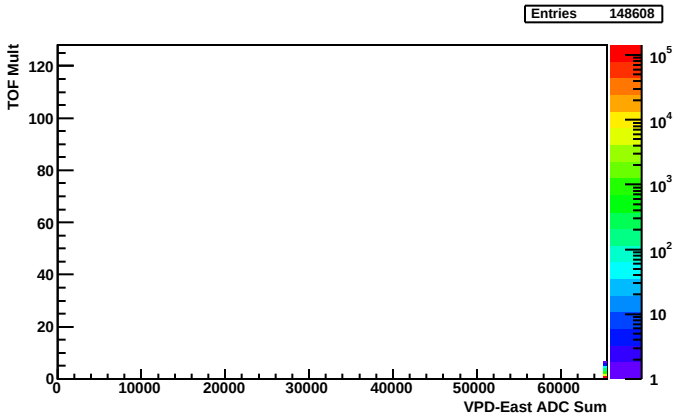

BBQ-VP004 (HI threshold)
Entries 2377728
TAC
QT Input Channel

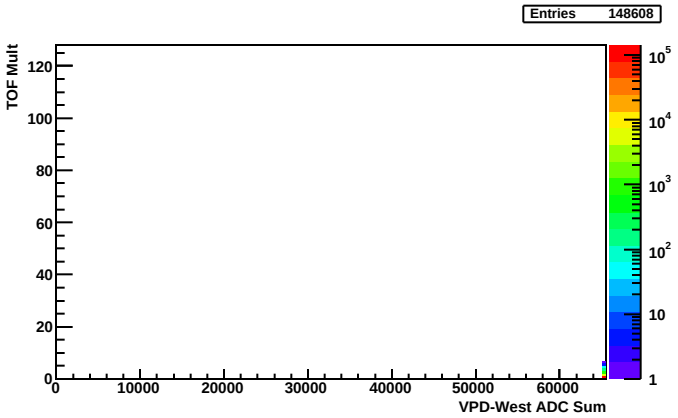

Entries 148608
TOF Mult
BBC-L-East ADC Sum

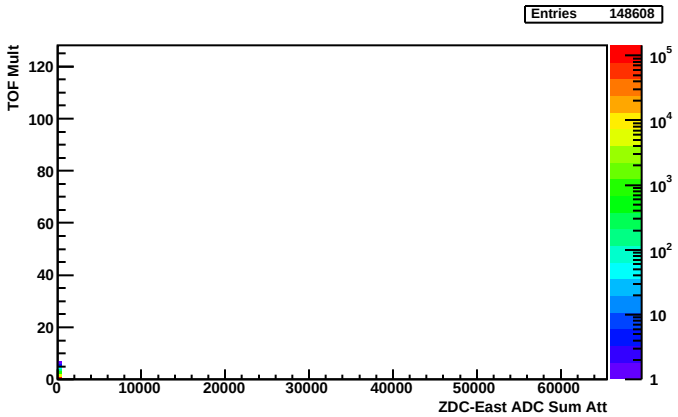

Entries 148608
TOF Mult
BBC-L-West ADC Sum

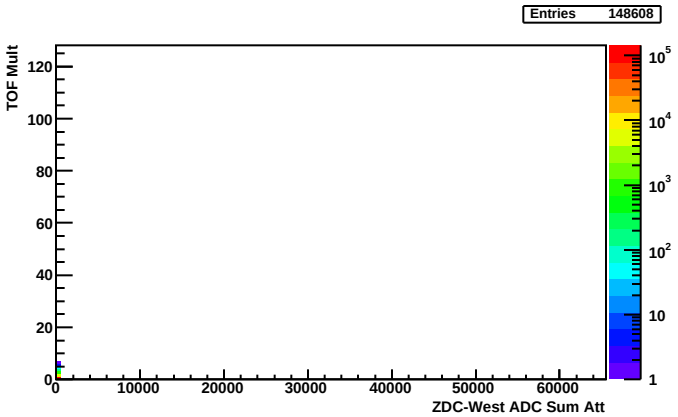

Entries 148608
TOF Mult
BBC-S-East ADC Sum

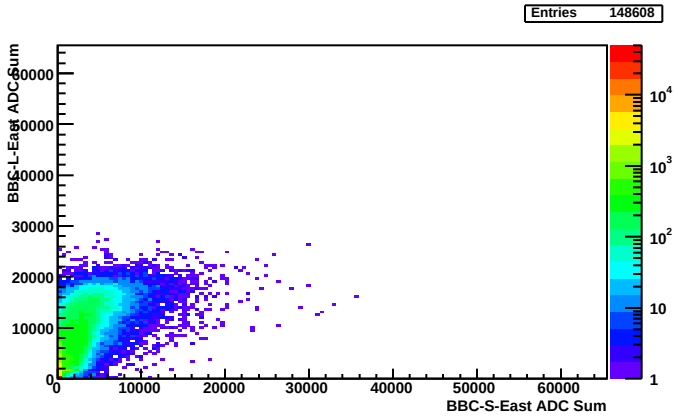

Entries 148608
TOF Mult
BBC-S-West ADC Sum

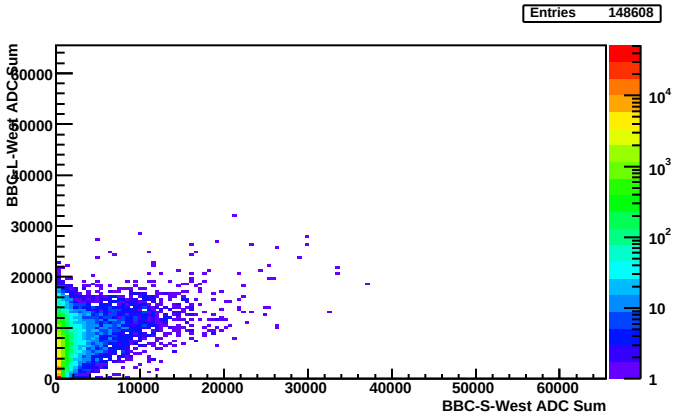

Entries 148608
TOF Mult
VPD-East ADC Sum

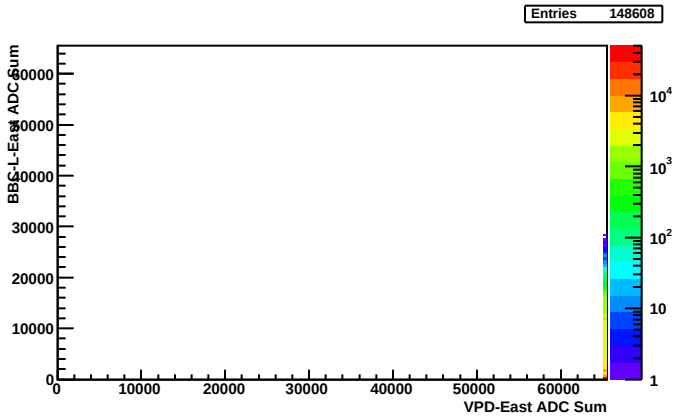

Entries 148608
TOF Mult
VPD-West ADC Sum

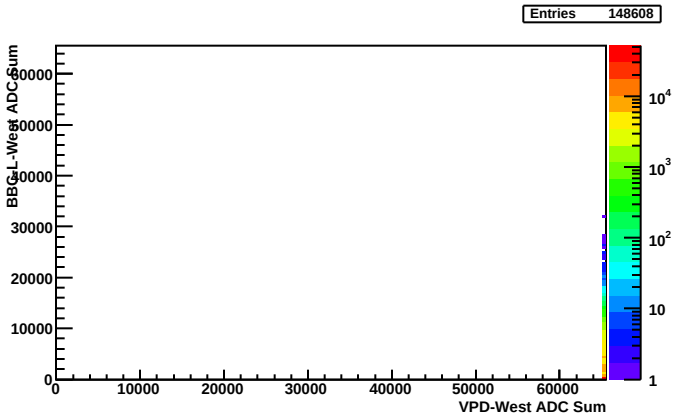

Entries 148608
TOF Mult
ZDC-East ADC Sum Att

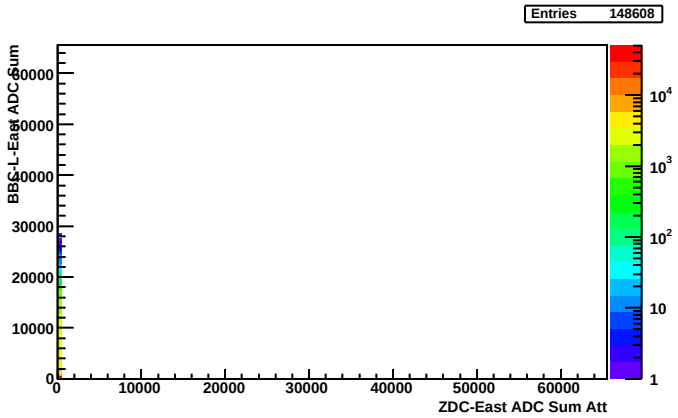

Entries 148608
TOF Mult
ZDC-West ADC Sum Att

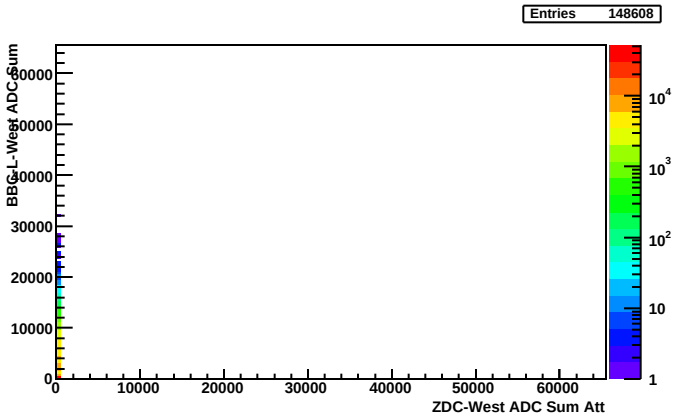

Entries 148608
BBC-L-East ADC Sum
BBC-S-East ADC Sum

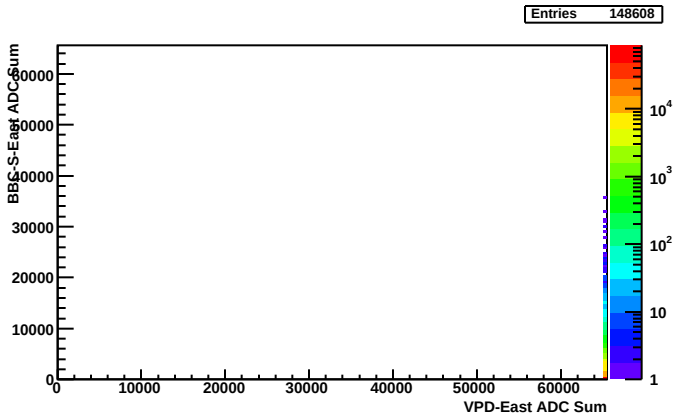

Entries 148608
BBC-L-West ADC Sum
BBC-S-West ADC Sum

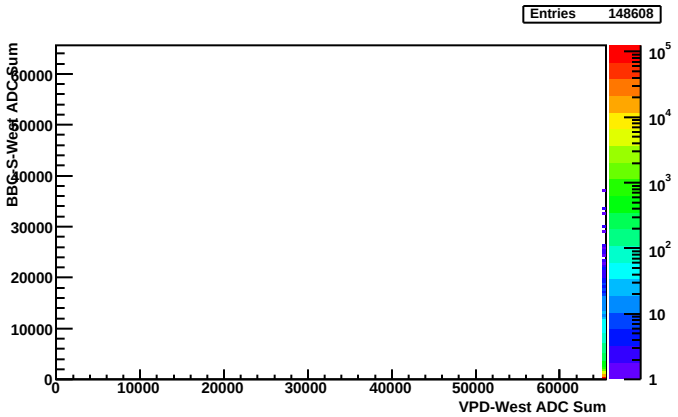

Entries 148608
BBC-L-East ADC Sum
VPD-East ADC Sum

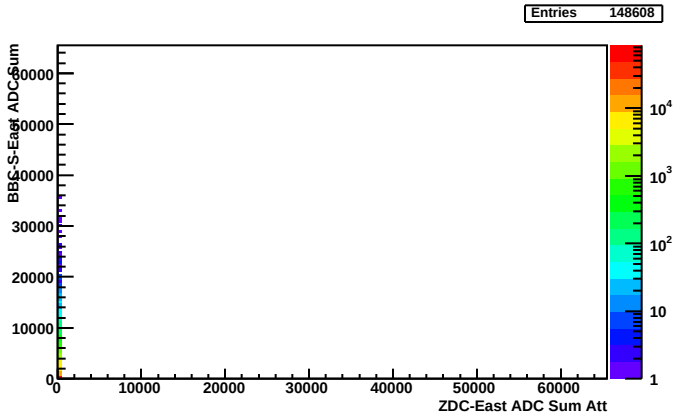

Entries 148608
BBC-L-West ADC Sum
VPD-West ADC Sum

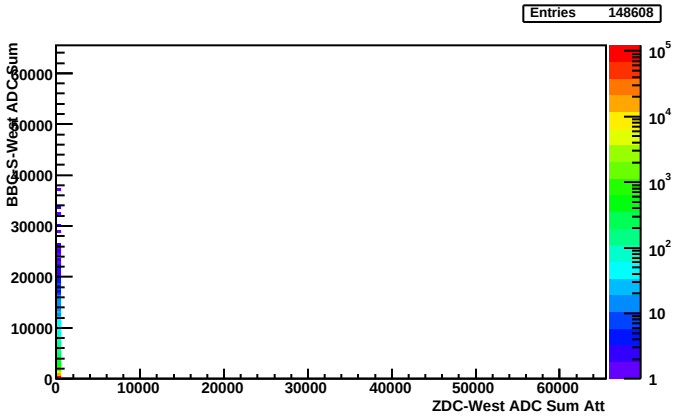

Entries 148608
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

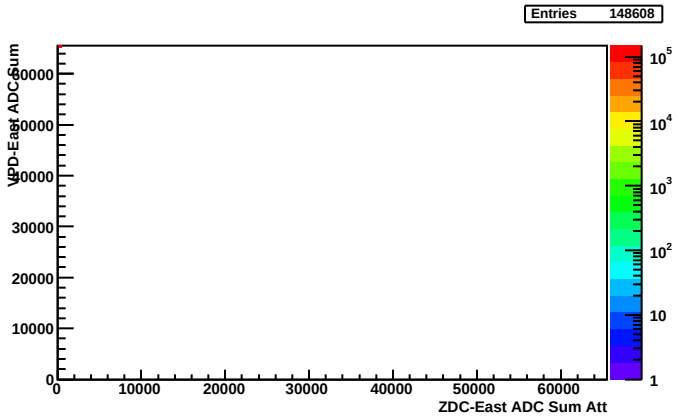

Entries 148608
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

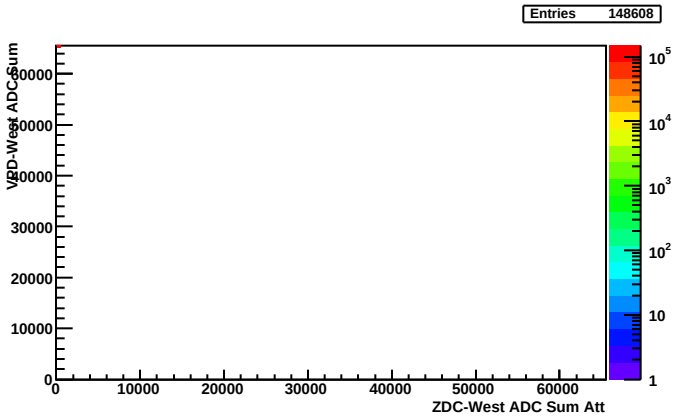

Entries 148608
BBC-S-East ADC Sum
VPD-East ADC Sum

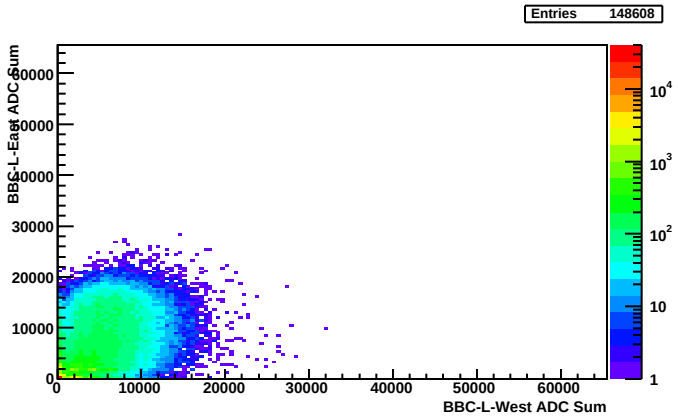

Entries 148608
BBC-S-West ADC Sum
VPD-West ADC Sum

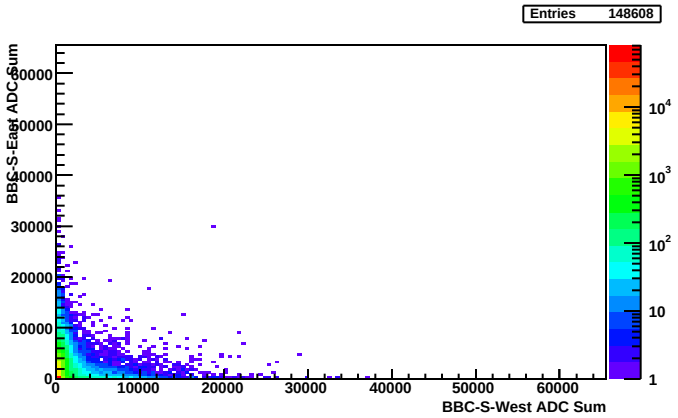

Entries 148608
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

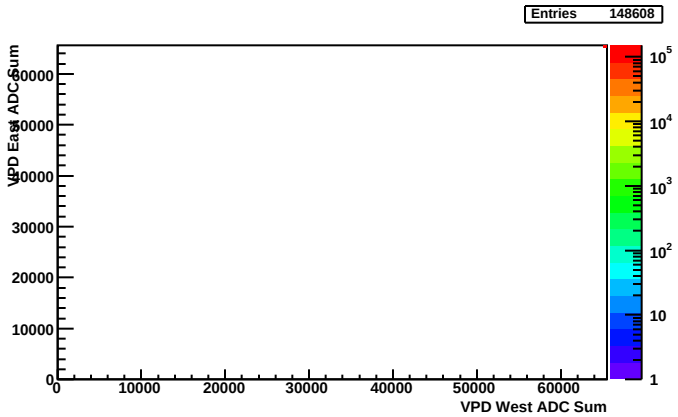

Entries 148608
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

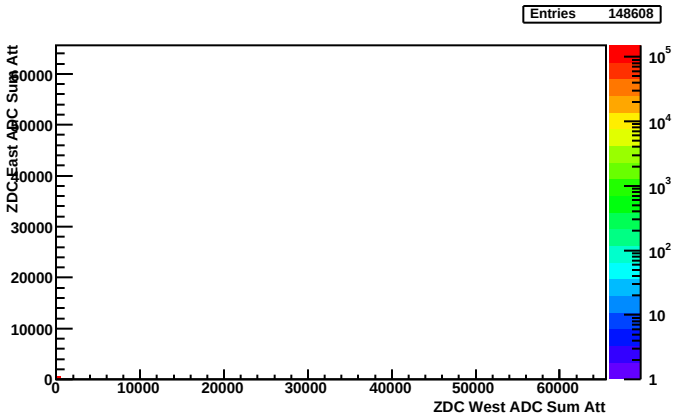

Entries 148608
VPD-East ADC Sum
ZDC-East ADC Sum Att

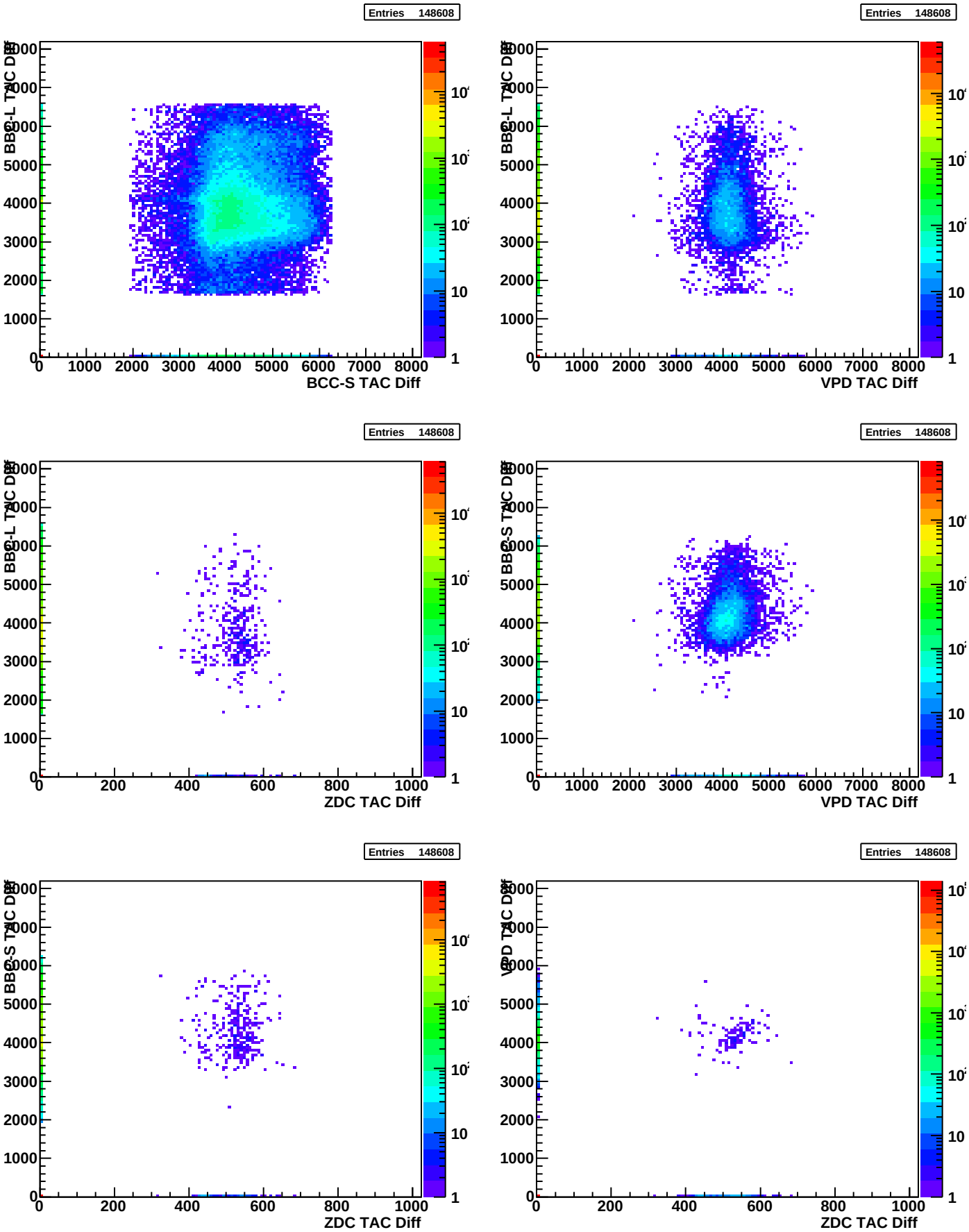

Entries 148608
VPD-West ADC Sum
ZDC-West ADC Sum Att

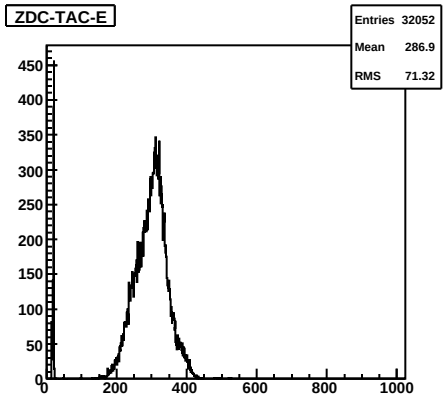

Entries 148608
BBC-L-East ADC Sum
BBC-L-West ADC Sum

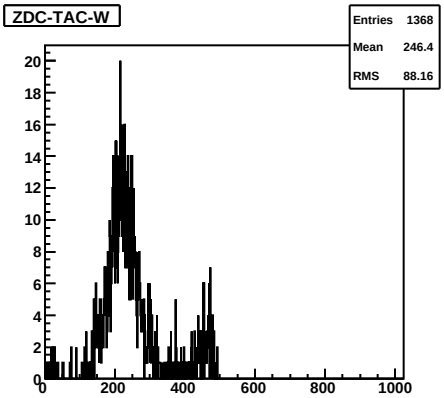

Entries 148608
BBC-S-East ADC Sum
BBC-S-West ADC Sum

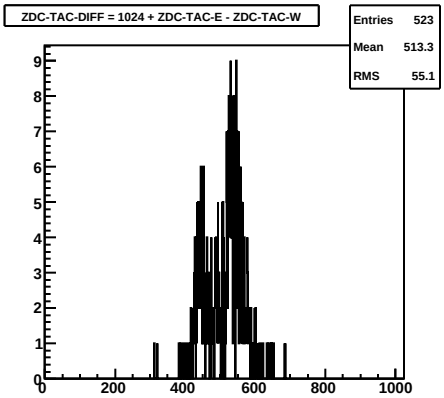

Entries 148608
VPD East ADC Sum
VPD West ADC Sum

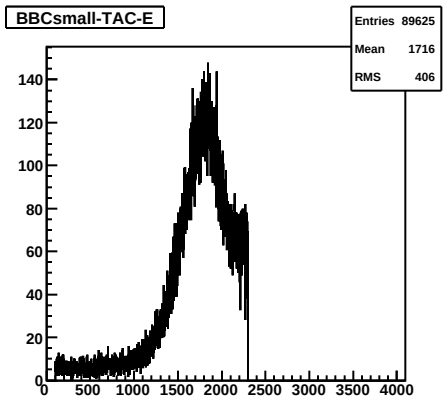

Entries 148608
ZDC East ADC Sum Att
ZDC West ADC Sum Att

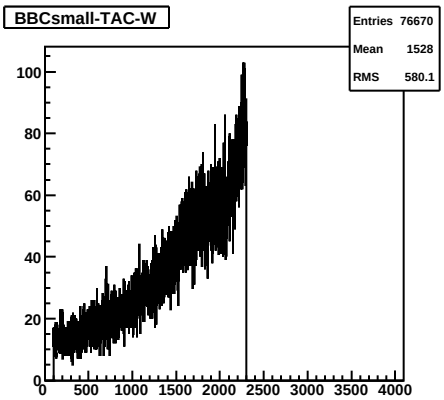

Entries 148608
BBC-L TAC Diff
BCC-S TAC Diff
Entries 148608
BBC-L TAC Diff
VPD TAC Diff
Entries 148608
BBC-L TAC Diff
ZDC TAC Diff
Entries 148608
BBC-S TAC Diff
VPD TAC Diff
Entries 148608
BBC-S TAC Diff
ZDC TAC Diff
Entries 148608
VPD TAC Diff
ZDC TAC Diff

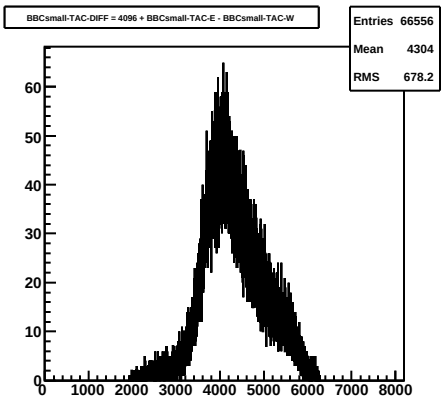

ZDC-TAC-E
Entries 32052
Mean 286.9
RMS 71.32

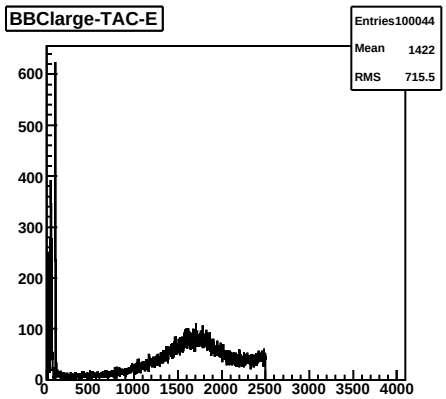

ZDC-TAC-W
Entries 1368
Mean 246.4
RMS 88.16

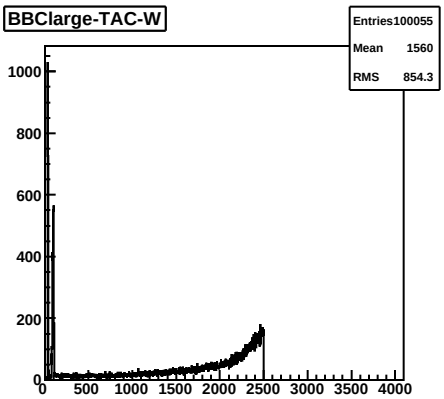

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 523
Mean 513.3
RMS 55.1

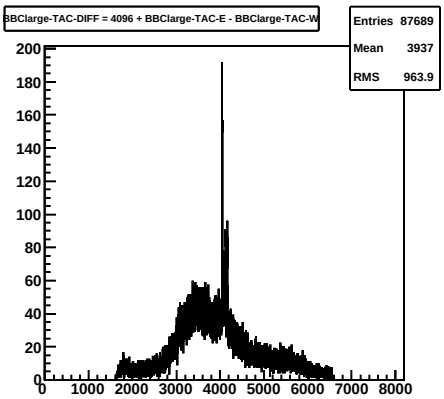

BBCsmall-TAC-E
Entries 89625
Mean 1716
RMS 406

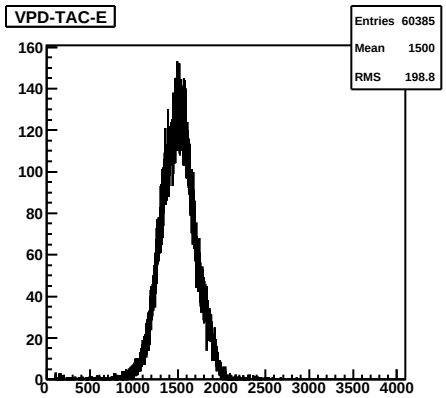

BBCsmall-TAC-W
Entries 76670
Mean 1528
RMS 580.1

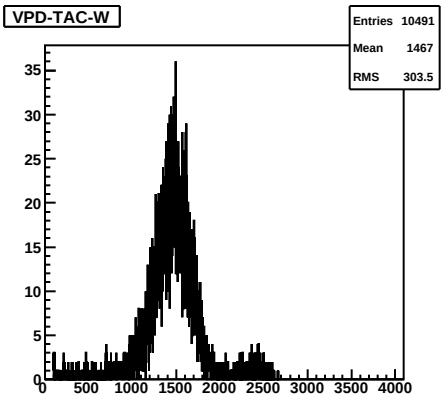

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 66556
Mean 4304
RMS 678.2

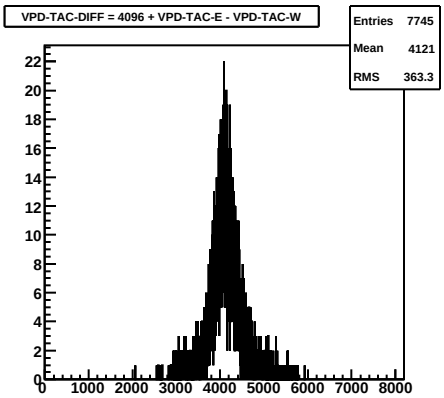

BBClarge-TAC-E
Entries100044
Mean 1422
RMS 715.5

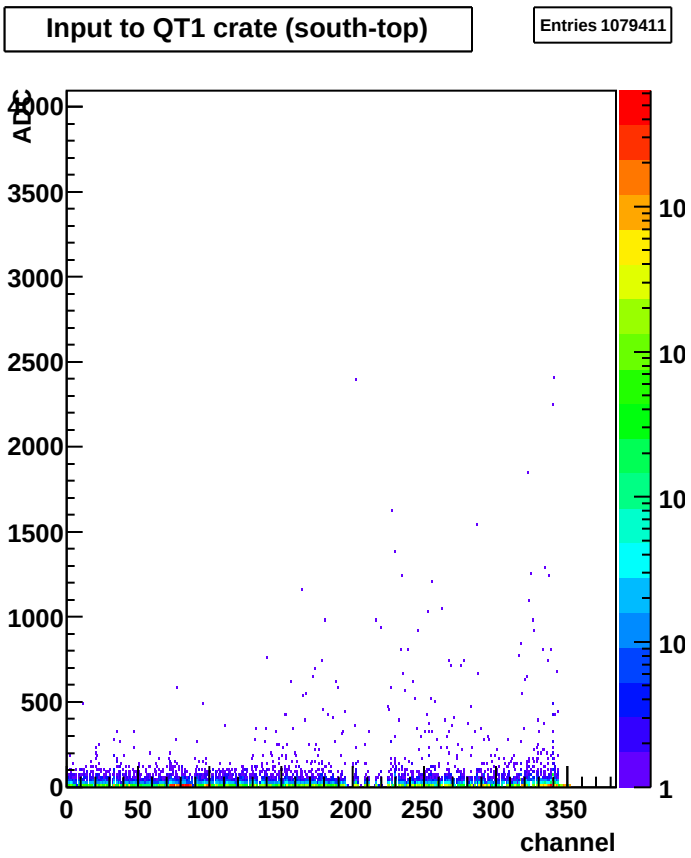

BBClarge-TAC-W
Entries100055
Mean 1560
RMS 854.3

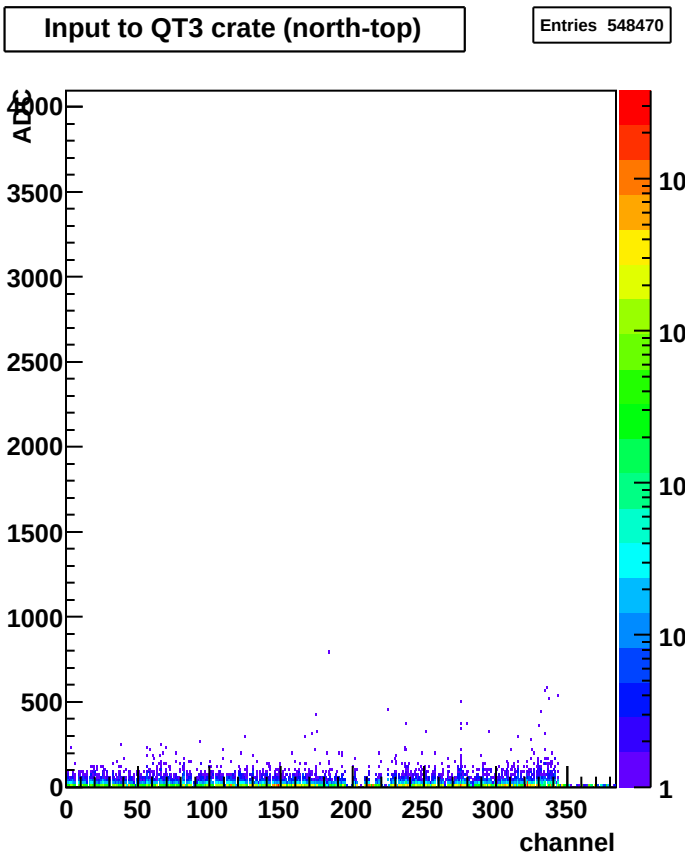

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 87689
Mean 3937
RMS 963.9

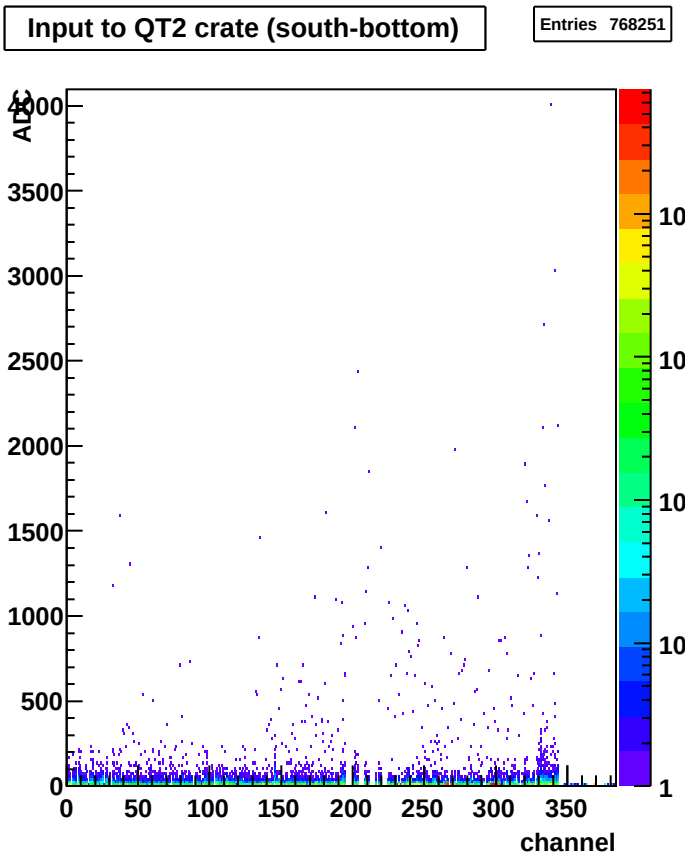

VPD-TAC-E
Entries 60385
Mean 1500
RMS 198.8

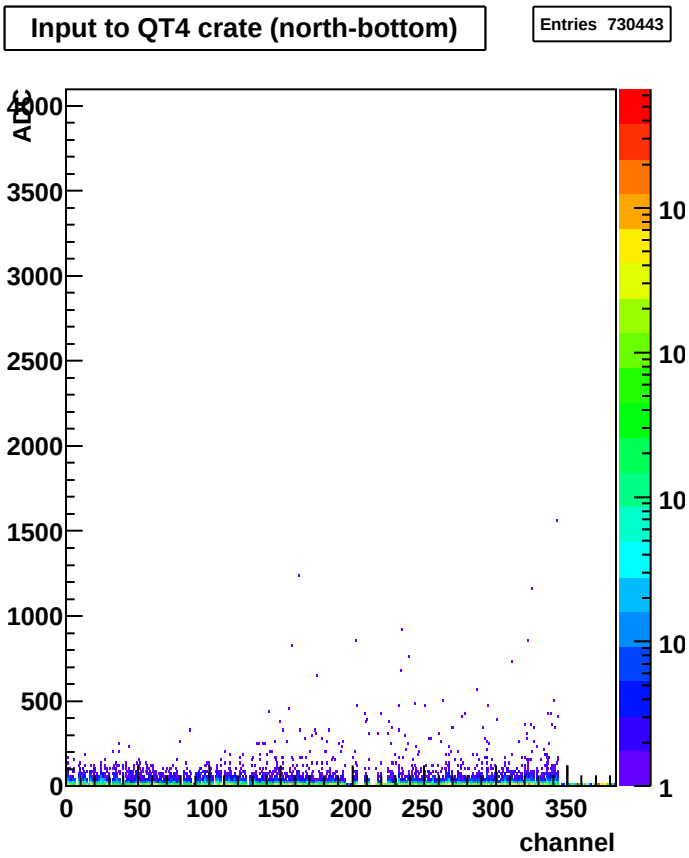

VPD-TAC-W
Entries 10491
Mean 1467
RMS 303.5

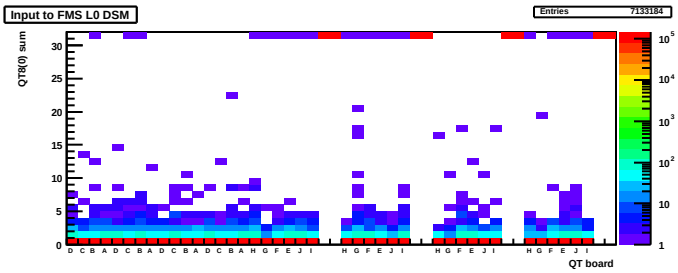

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 7745
Mean 4121
RMS 363.3

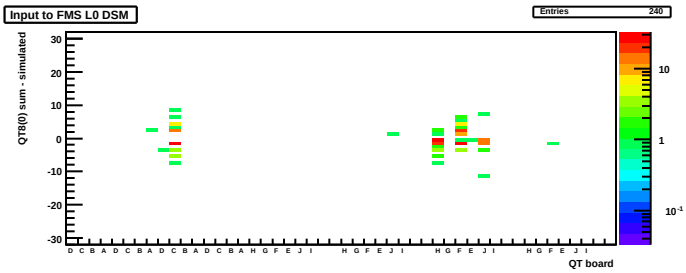

Input to QT1 crate (south-top)
Entries 1079411
ADC
channel

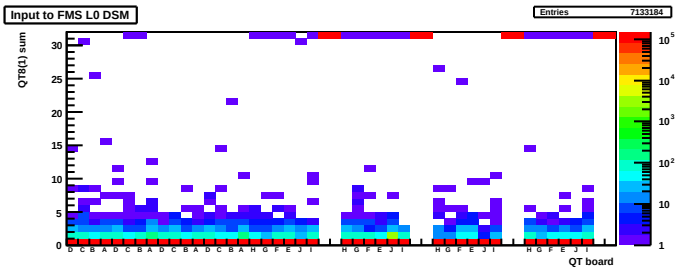

Input to QT3 crate (north-top)
Entries 548470
ADC
channel

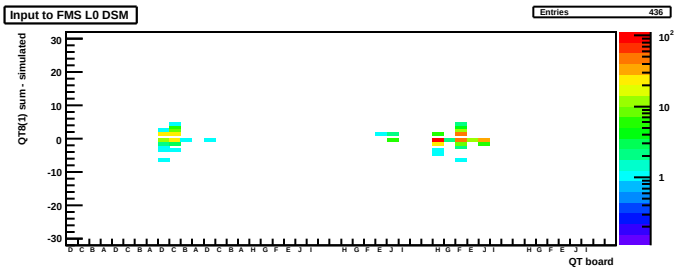

Input to QT2 crate (south-bottom)
Entries 768251
ADC
channel

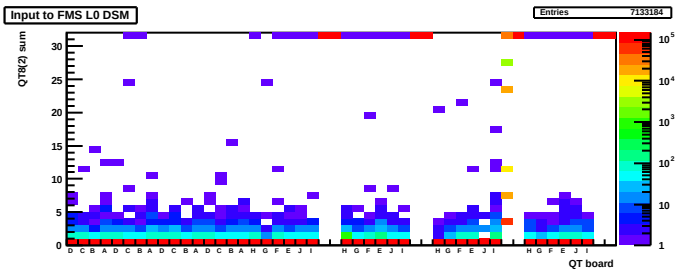

Input to QT4 crate (north-bottom)
Entries 730443
ADC
channel

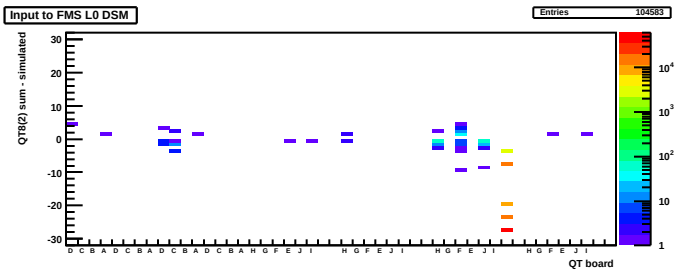

Input to FMS L0 DSM
Entries 7133184
QT8(0) sum
QT board

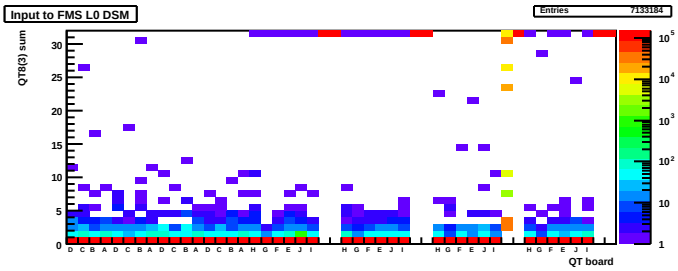

Input to FMS L0 DSM
Entries 240
QT8(0) sum - simulated
QT board

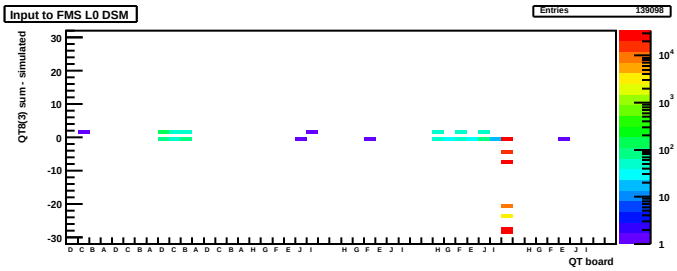

Input to FMS L0 DSM
Entries 7133184
QT8(1) sum
QT board

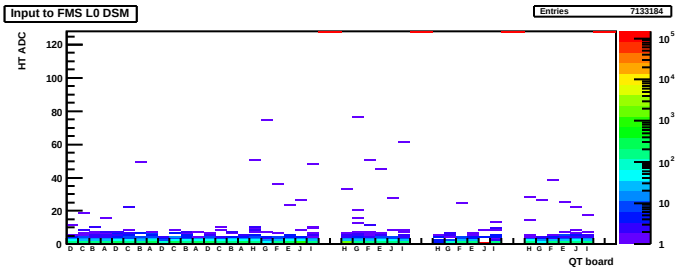

Input to FMS L0 DSM
Entries 436
QT8(1) sum - simulated
QT board

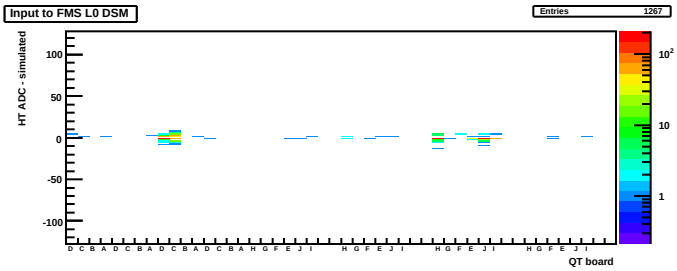

Input to FMS L0 DSM
Entries 7133184
QT8(2) sum
QT board

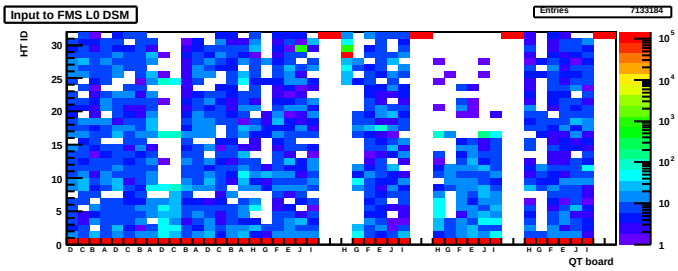

Input to FMS L0 DSM
Entries 104583
QT8(2) sum - simulated
QT board

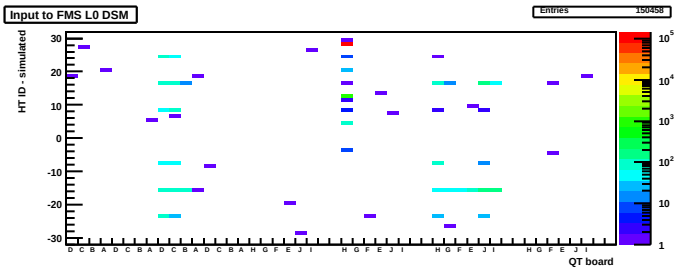

Input to FMS L0 DSM
Entries 7133184
QT8(3) sum
QT board

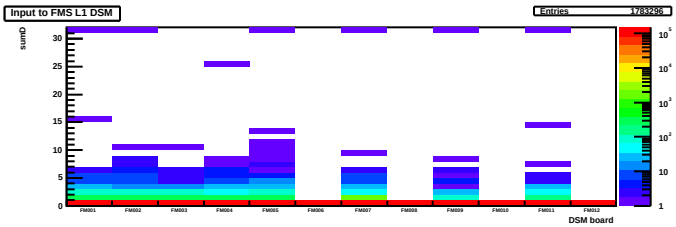

Input to FMS L0 DSM
Entries 139098
QT8(3) sum - simulated
QT board

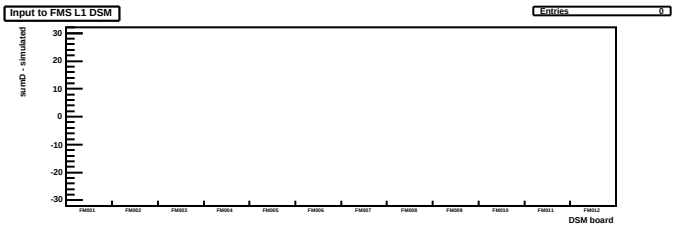

Input to FMS L0 DSM
Entries 7133184
HT ADC
QT board

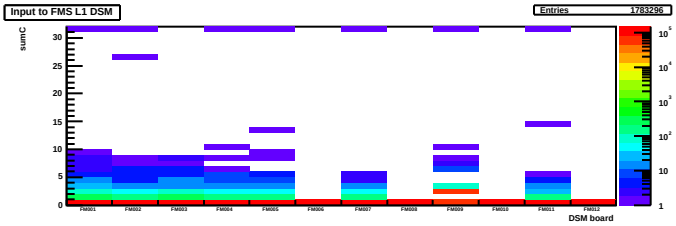

Input to FMS L0 DSM
Entries 1267
HT ADC - simulated
QT board

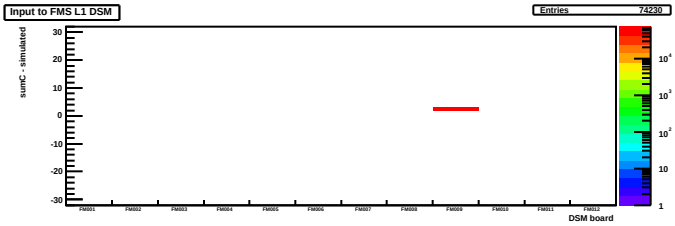

Input to FMS L0 DSM
Entries 7133184
HT ID
QT board

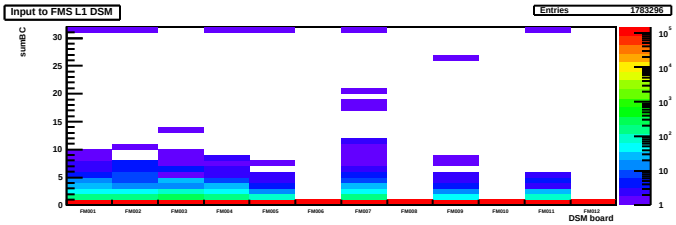

Input to FMS L0 DSM
Entries 150458
HT ID - simulated
QT board

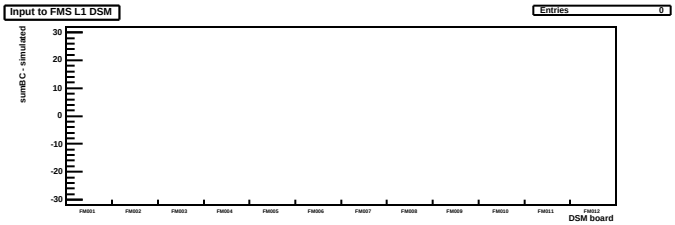

Input to FMS L1 DSM
Entries 1783296
sumD
DSM board

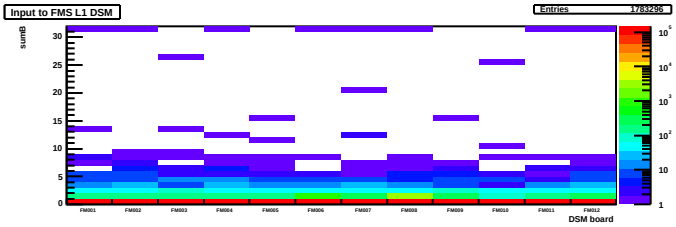

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

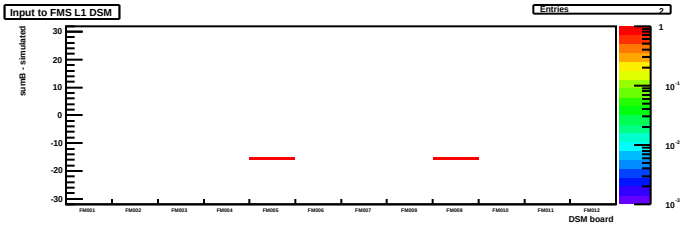

Input to FMS L1 DSM
Entries 1783296
sumC
DSM board

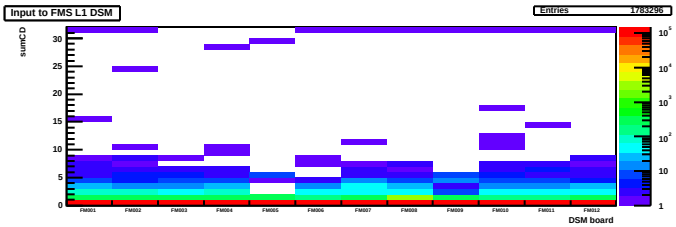

Input to FMS L1 DSM
Entries 74230
sumC - simulated
DSM board

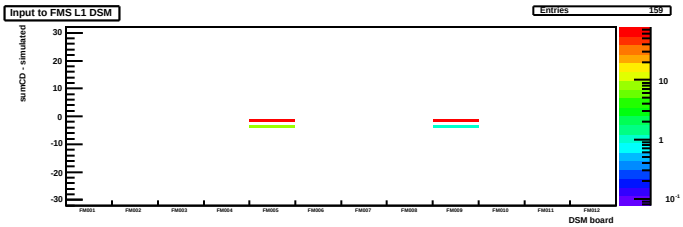

Input to FMS L1 DSM
Entries 1783296
sumBC
DSM board

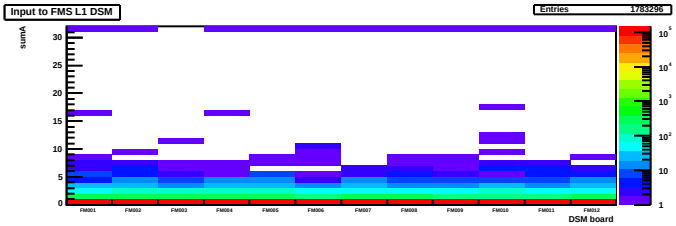

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

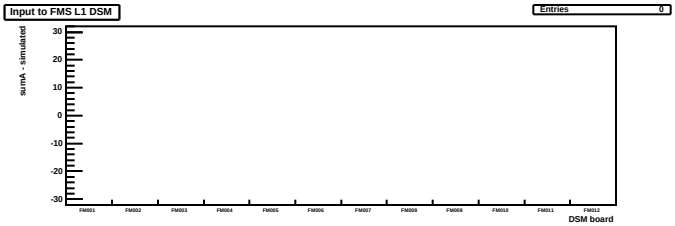

Input to FMS L1 DSM
Entries 1783296
sumB
DSM board

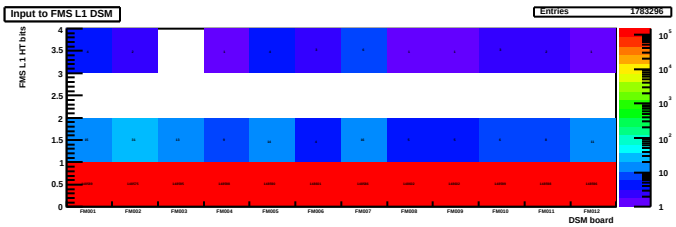

Input to FMS L1 DSM
Entries 2
sumB - simulated
DSM board

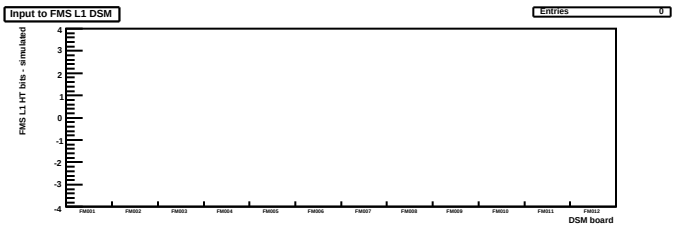

Input to FMS L1 DSM
Entries 1783296
sumCD
DSM board

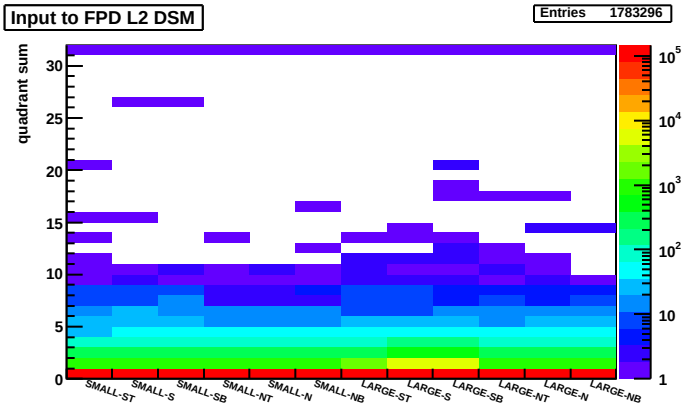

Input to FMS L1 DSM
Entries 159
sumCD - simulated
DSM board

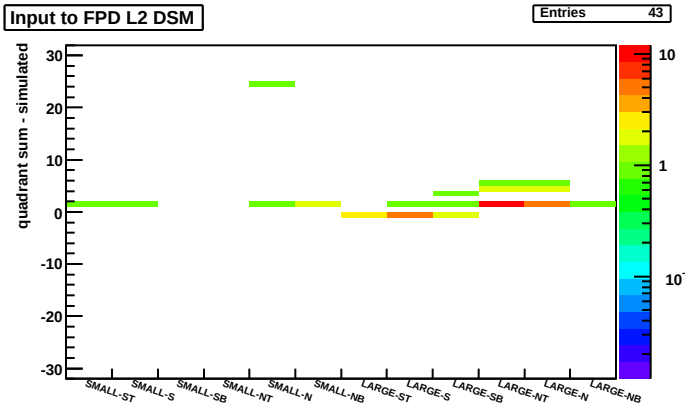

Input to FMS L1 DSM
Entries 1783296
sumA
DSM board

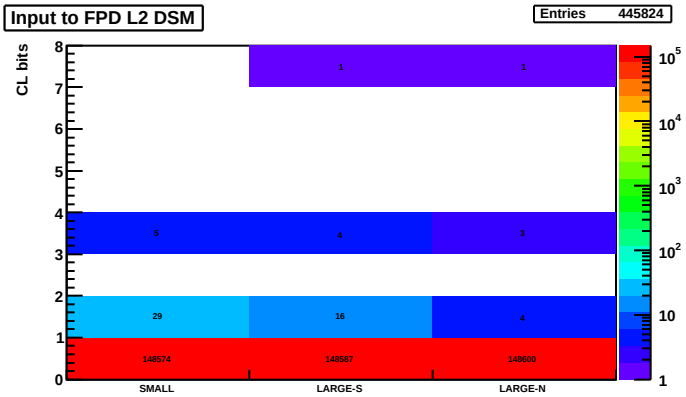

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

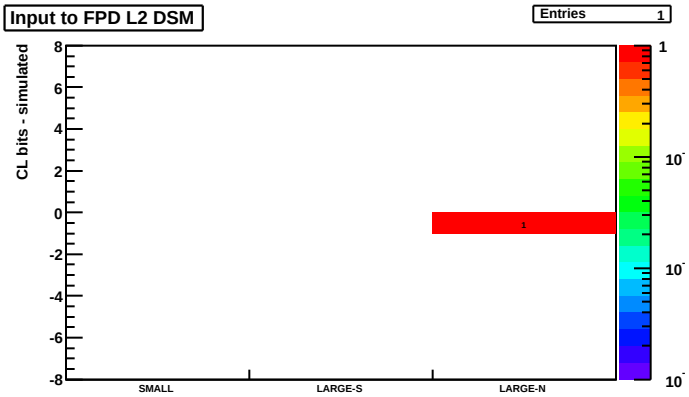

Input to FMS L1 DSM
Entries 1783296
FMS L1 HT bits
DSM board

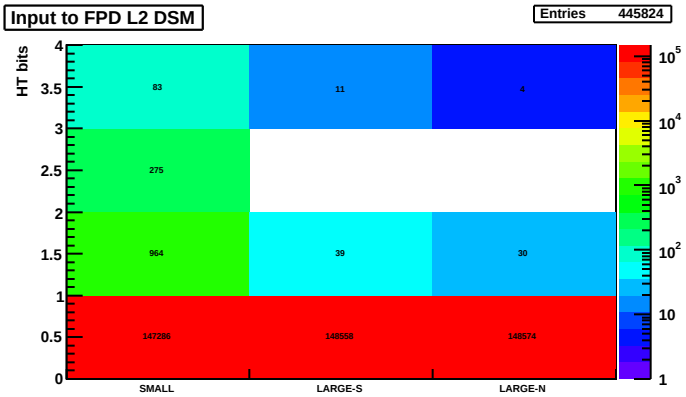

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

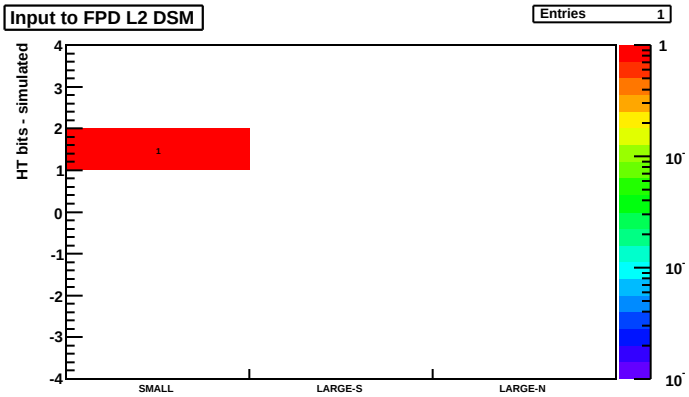

Input to FPD L2 DSM
Entries 1783296
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

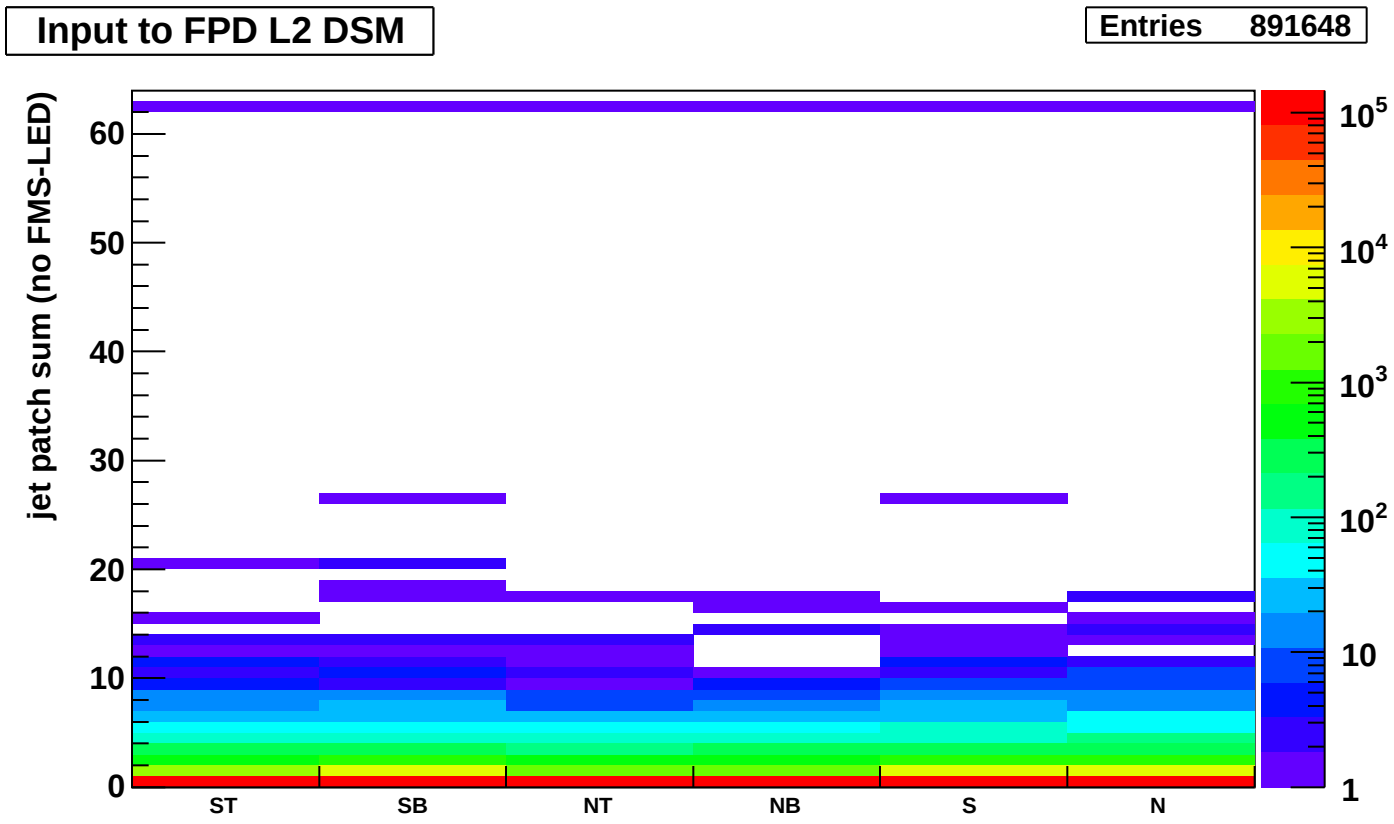

Input to FPD L2 DSM
Entries 43
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

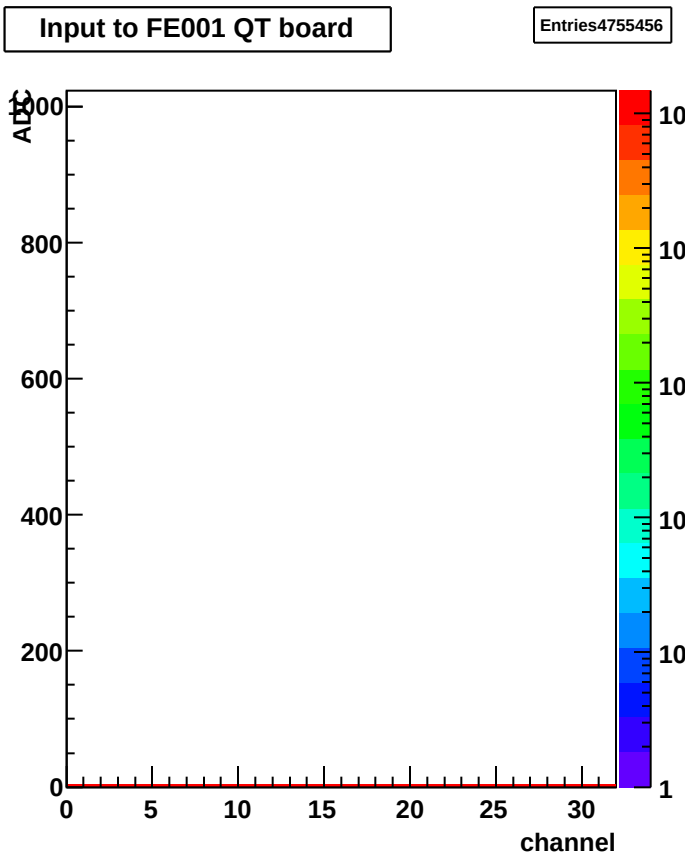

Input to FPD L2 DSM
Entries 445824
CL bits
1
1
5
4
3
29
16
4
148574
148587
148600
SMALL
LARGE-S
LARGE-N

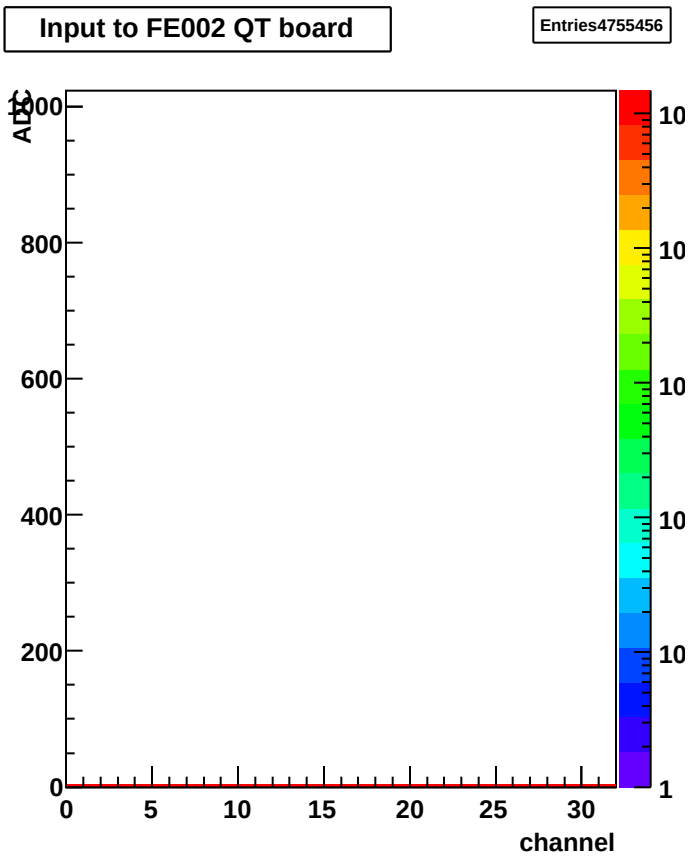

Input to FPD L2 DSM
Entries 1
CL bits - simulated
1
SMALL
LARGE-S
LARGE-N

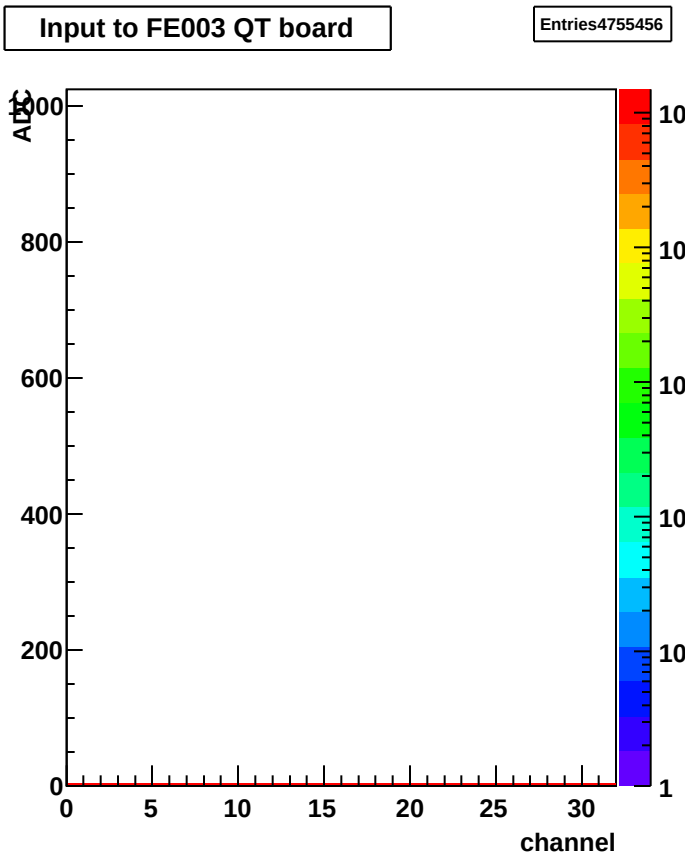

Input to FPD L2 DSM
Entries 445824
HT bits
83
11
4
275
964
39
30
147286
148558
148574
SMALL
LARGE-S
LARGE-N

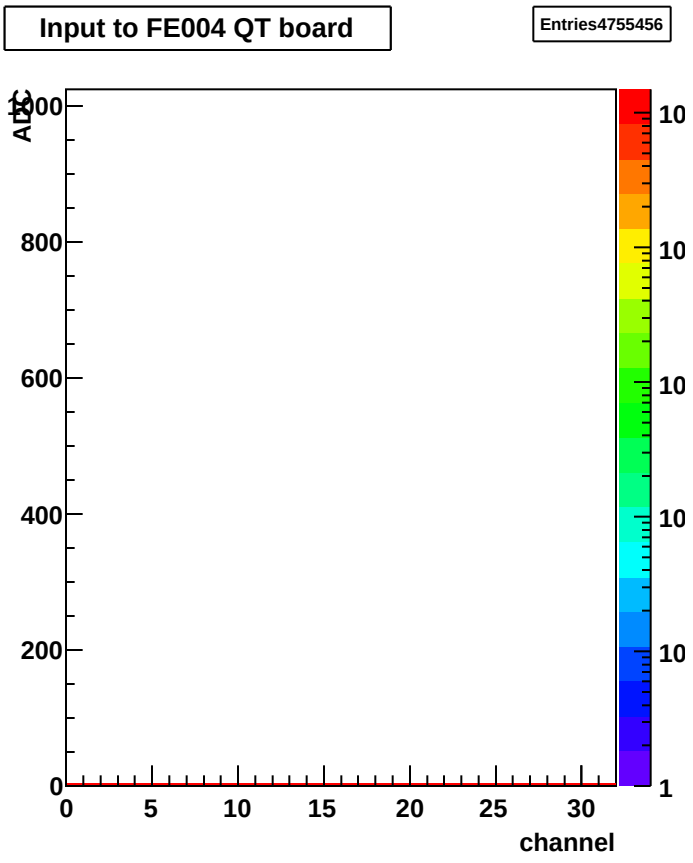

Input to FPD L2 DSM
Entries 1
HT bits - simulated
1
SMALL
LARGE-S
LARGE-N

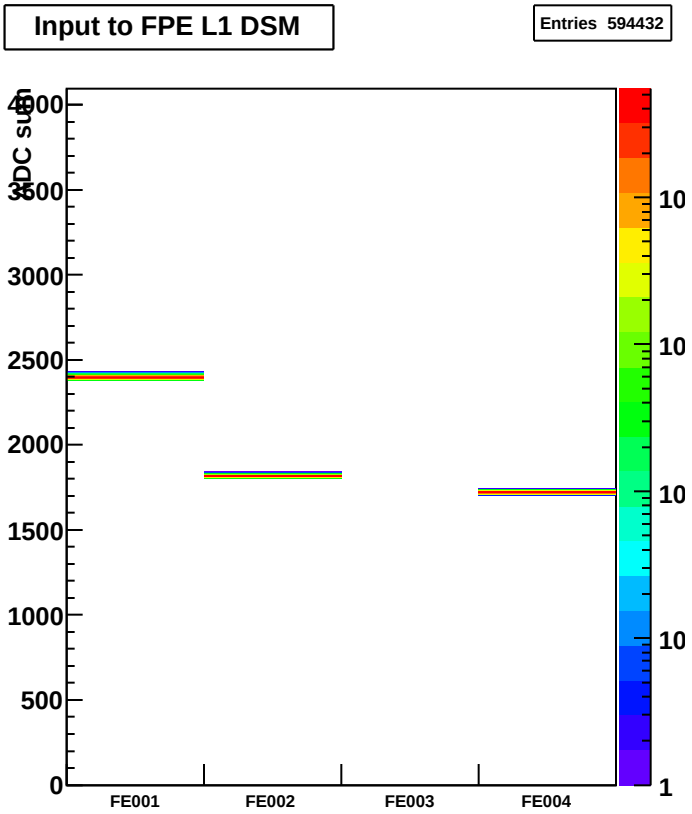

Input to FPD L2 DSM
Entries 891648
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

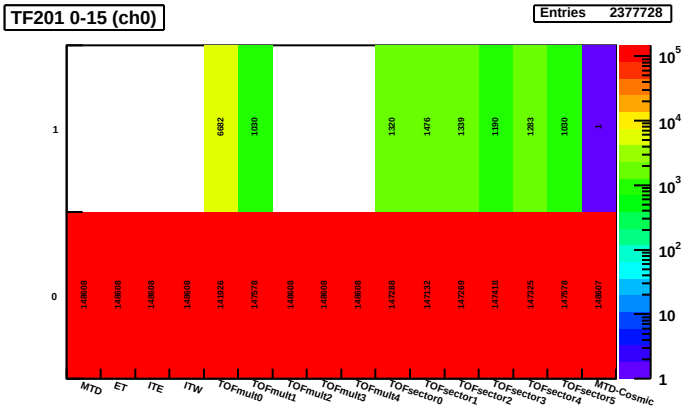

Input to FE001 QT board
Entries4755456
ADC
channel

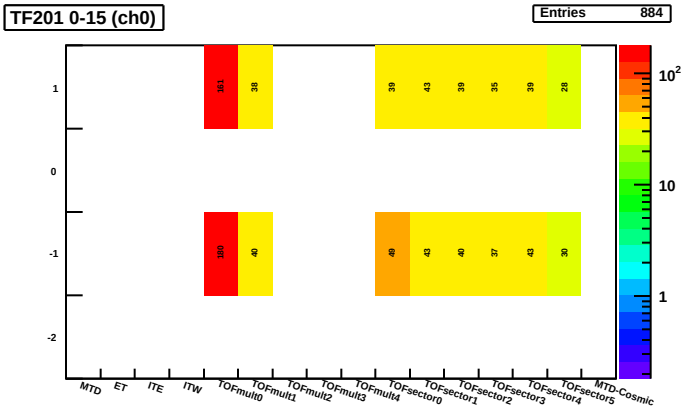

Input to FE002 QT board
Entries4755456
ADC
channel

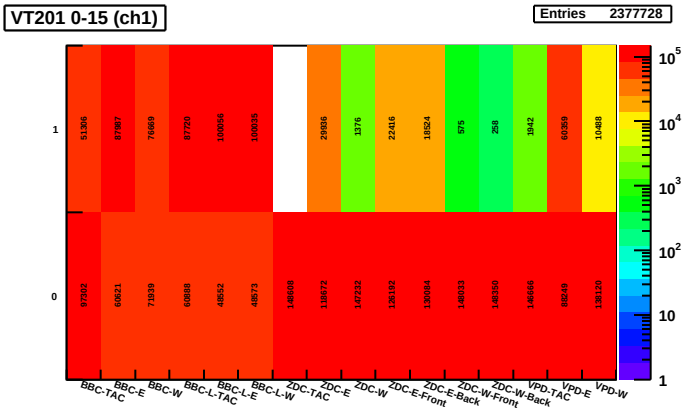

Input to FE003 QT board
Entries4755456
ADC
channel

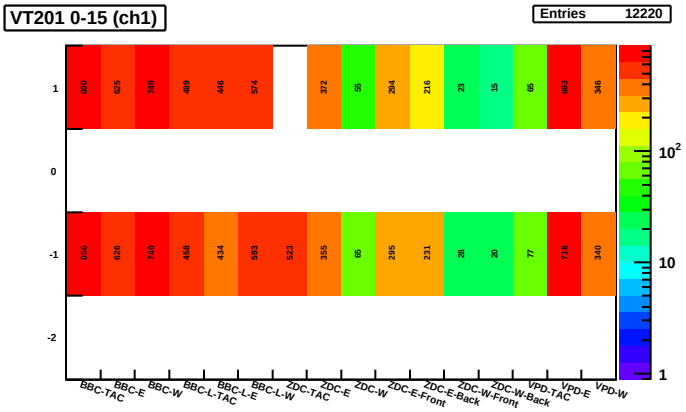

Input to FE004 QT board
Entries4755456
ADC
channel

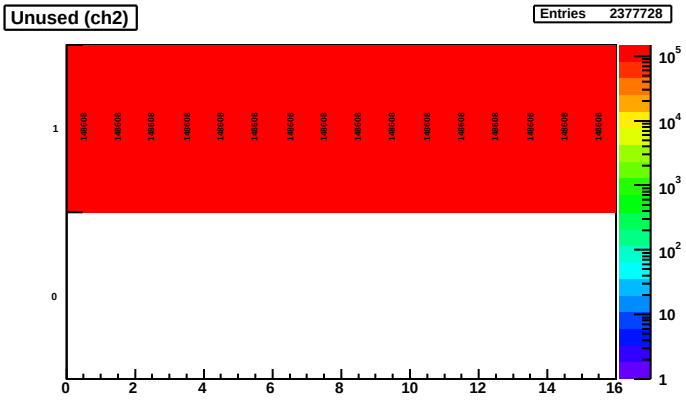

Input to FPE L1 DSM
Entries 594432
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1


TF201 0-15 (ch0)
Entries 2377728
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 884
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2377728
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 12220
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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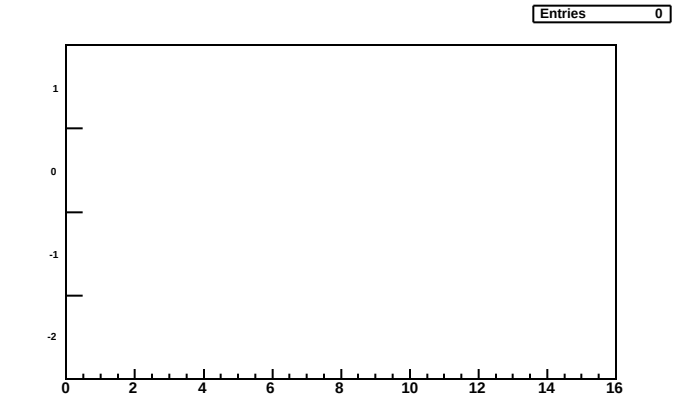
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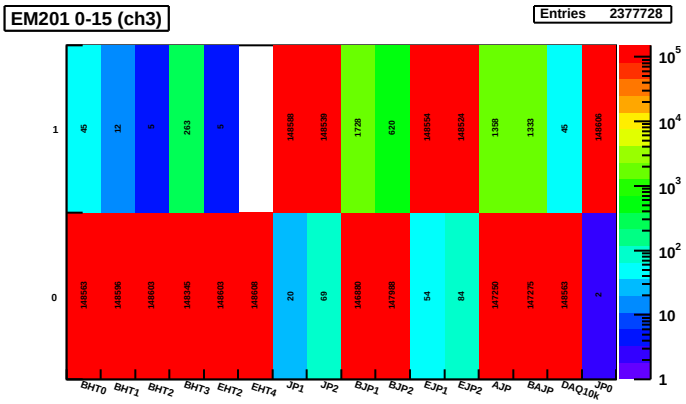
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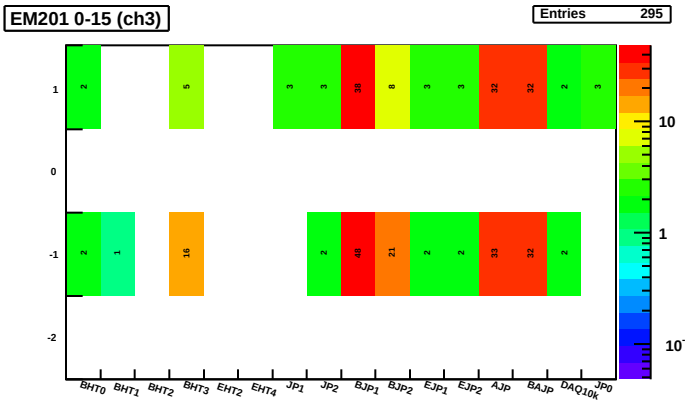
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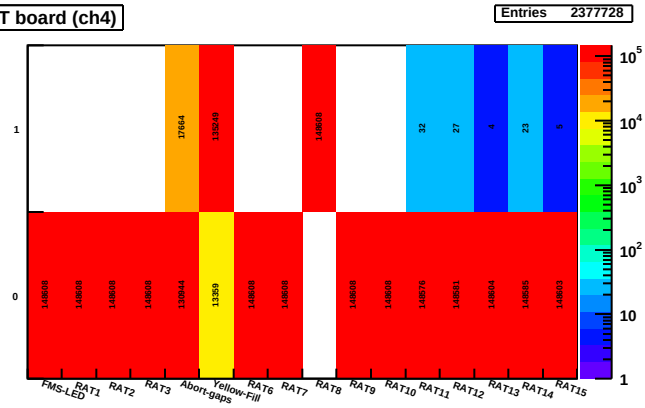
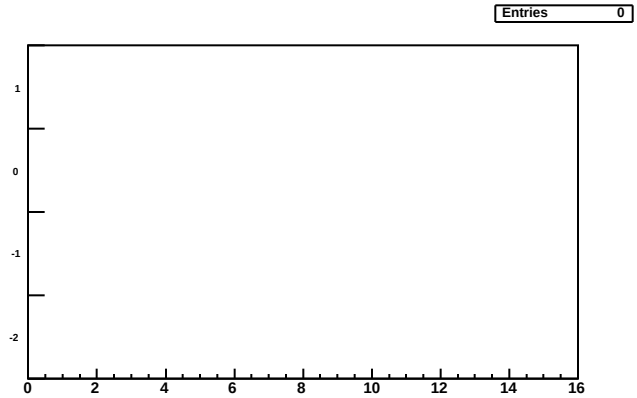
RAT board (ch4)





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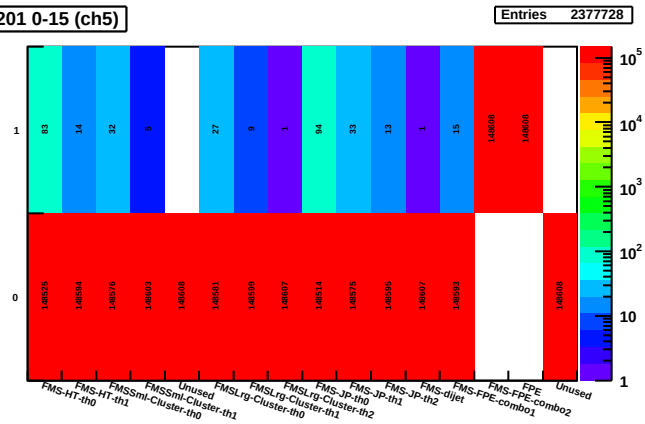

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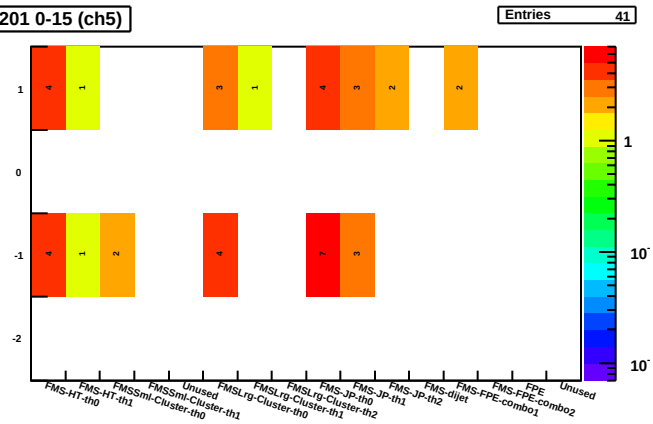

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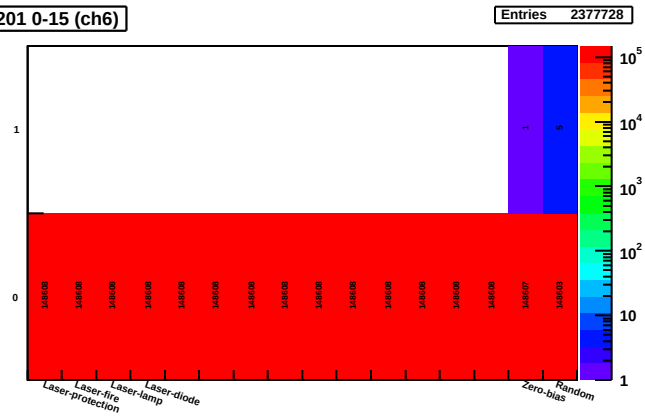

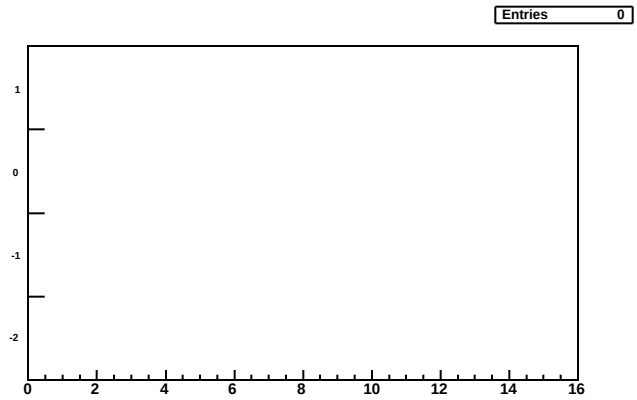
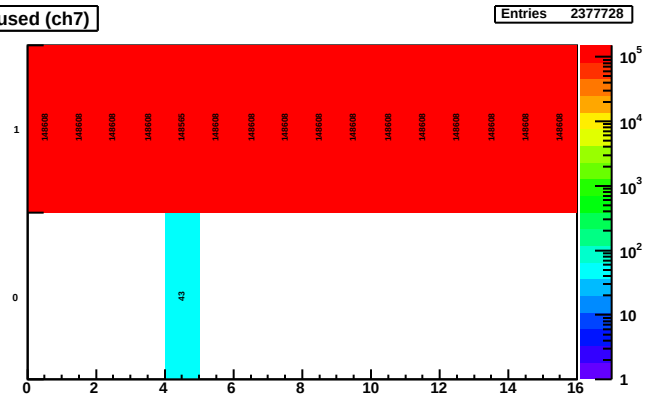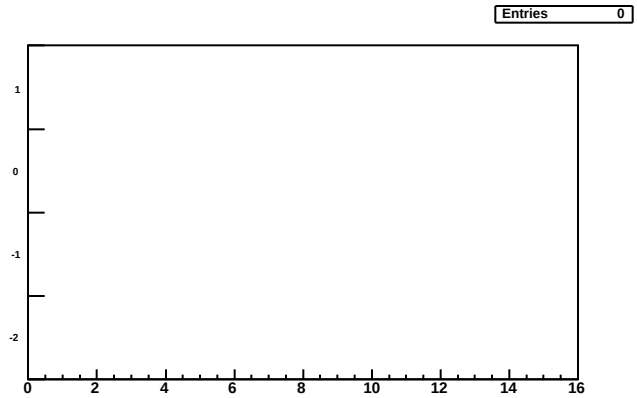
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