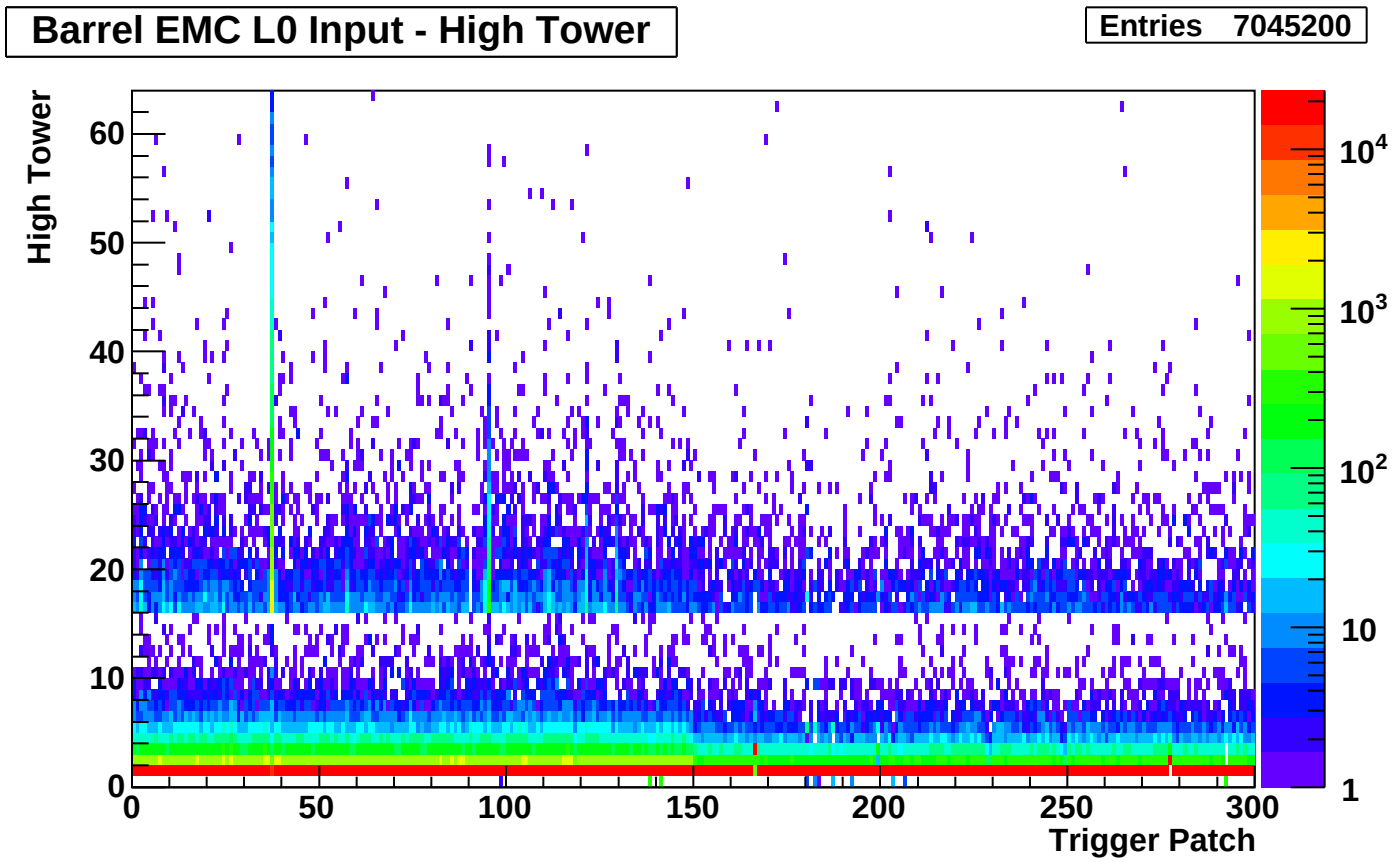
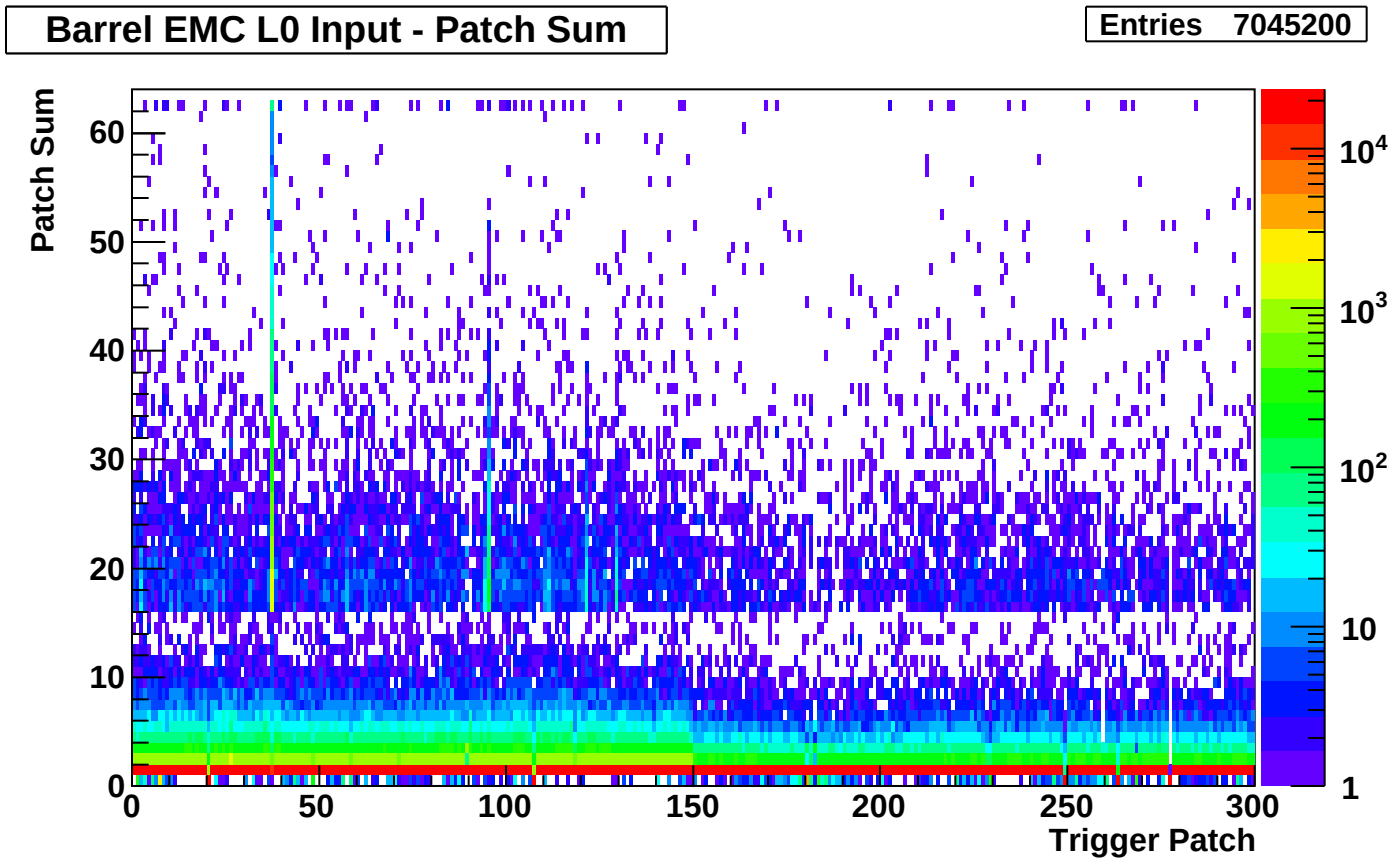
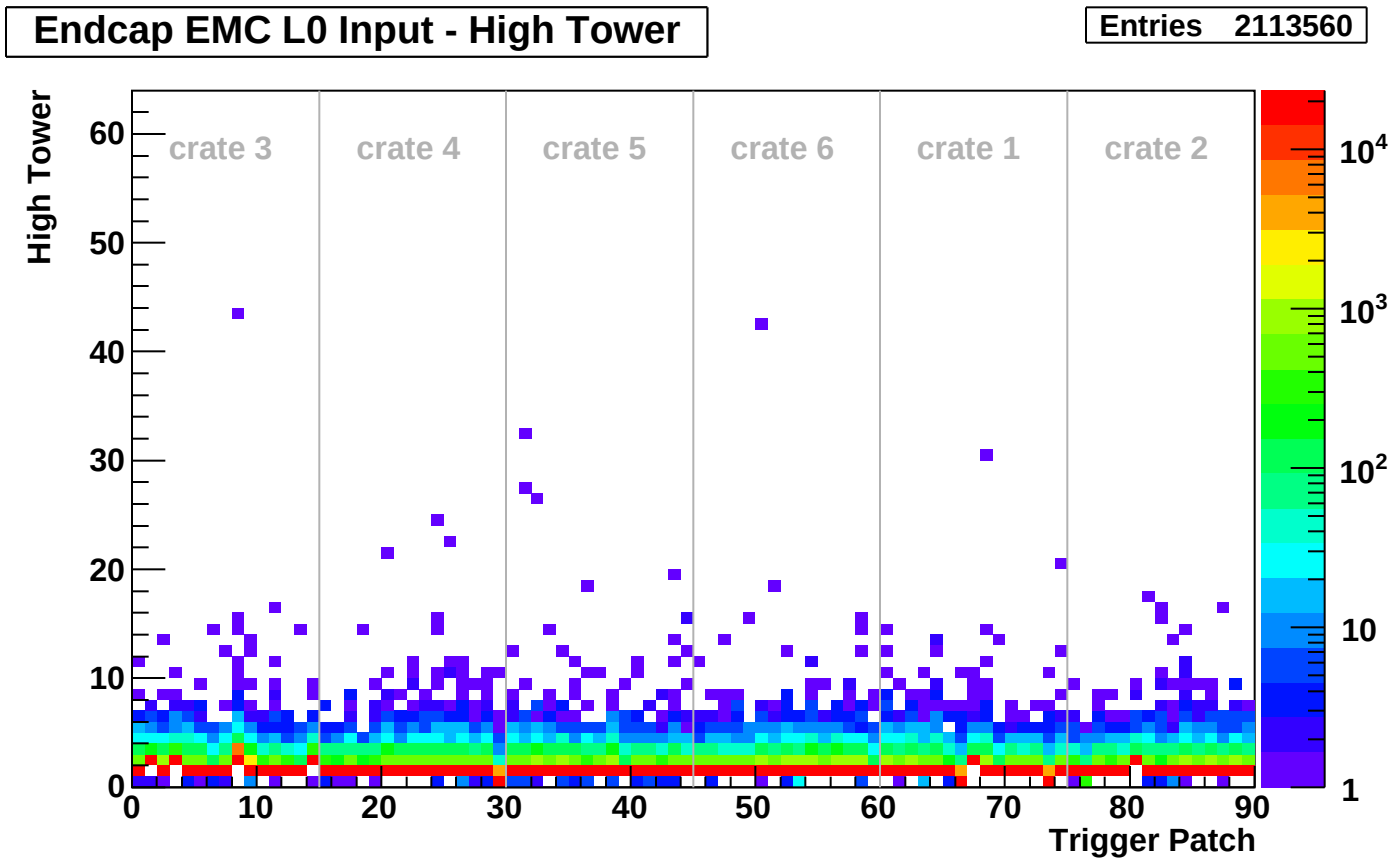
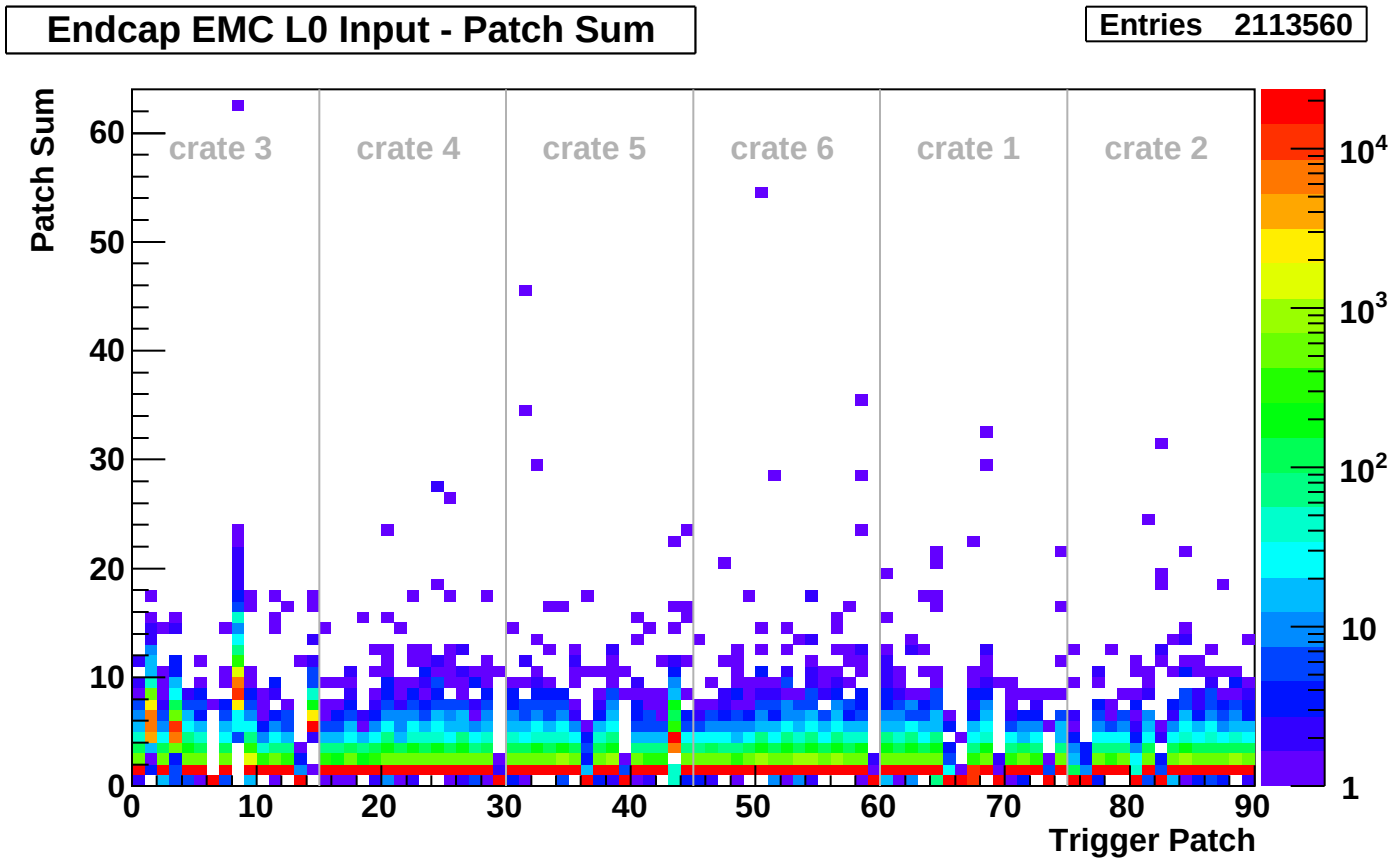
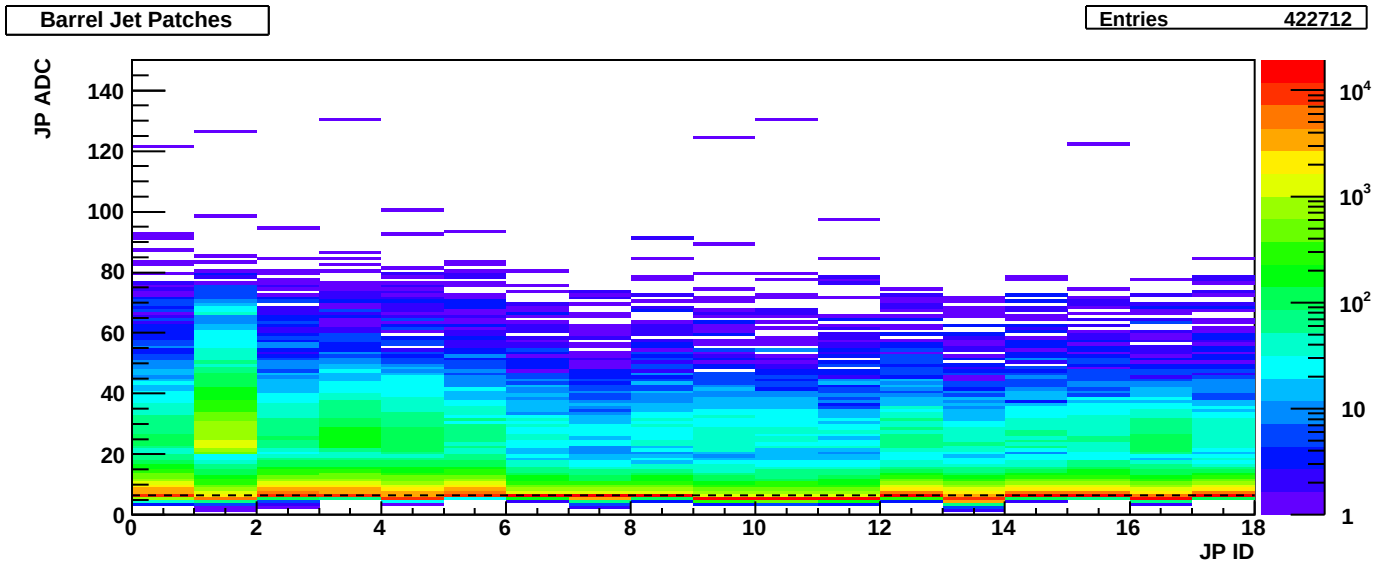
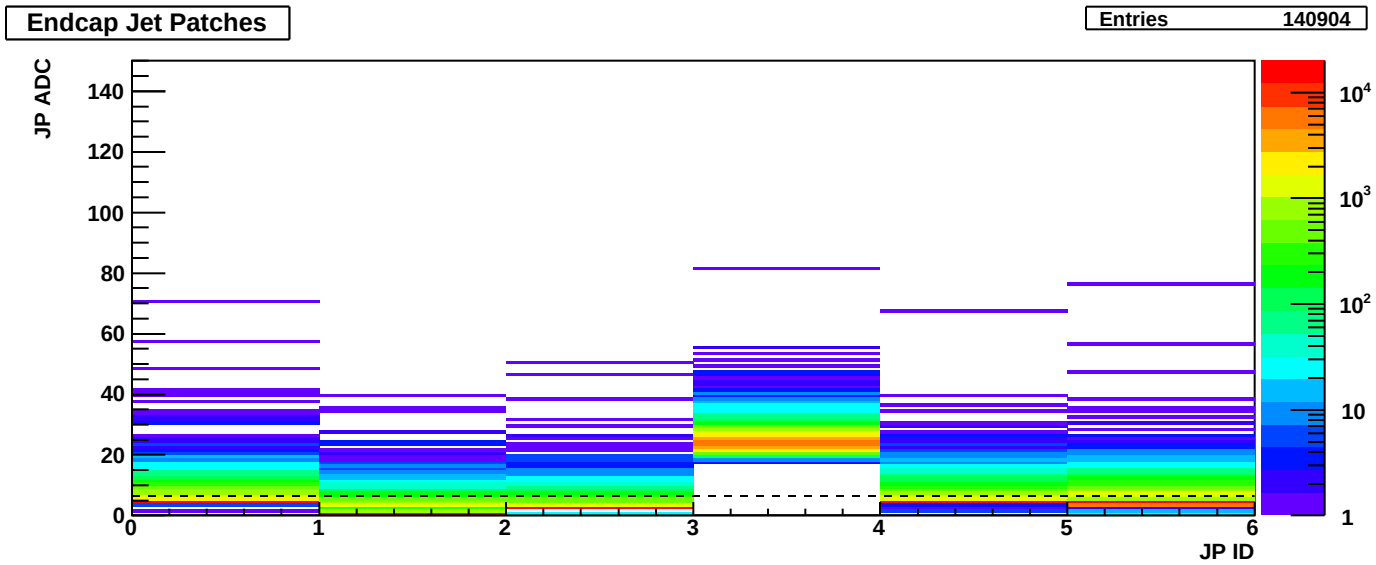

Barrel EMC L0 Input - High Tower
Entries 7045200
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

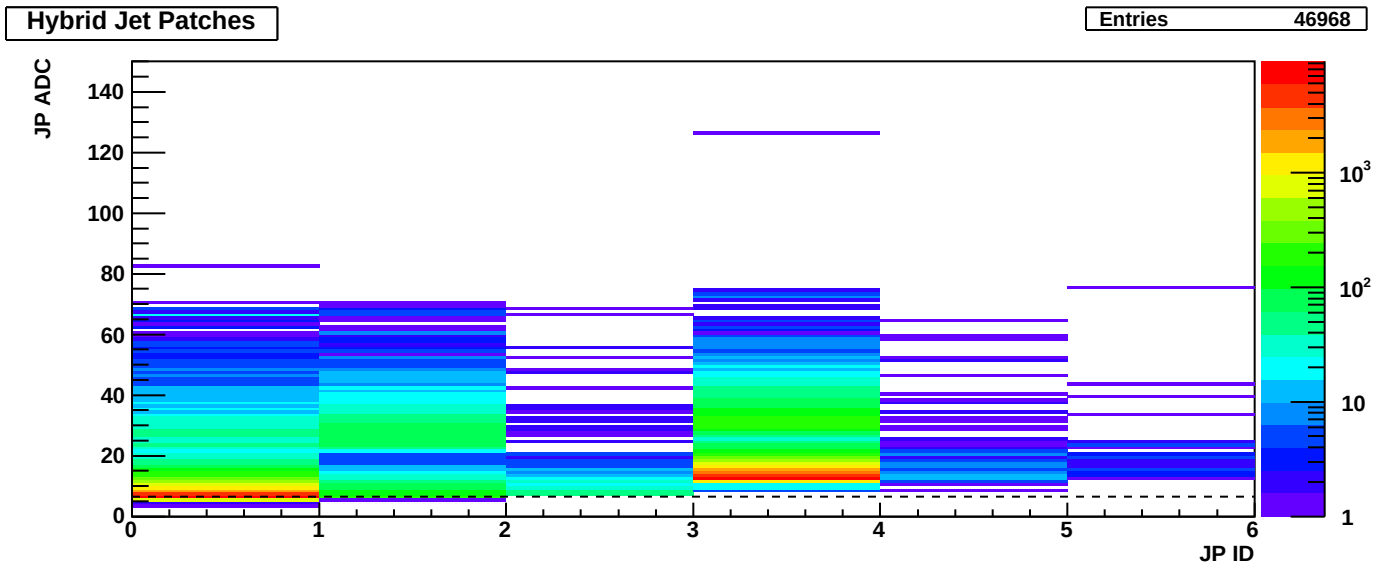

Barrel EMC L0 Input - Patch Sum
Entries 7045200
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

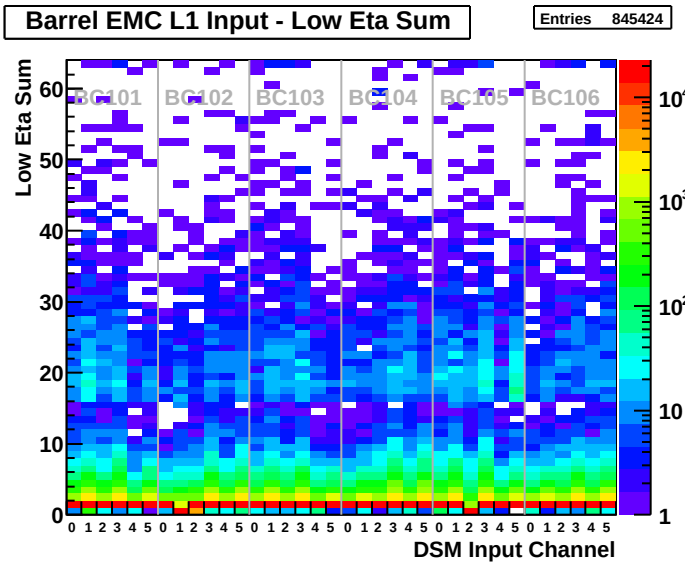

Endcap EMC L0 Input - High Tower
Entries 2113560
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

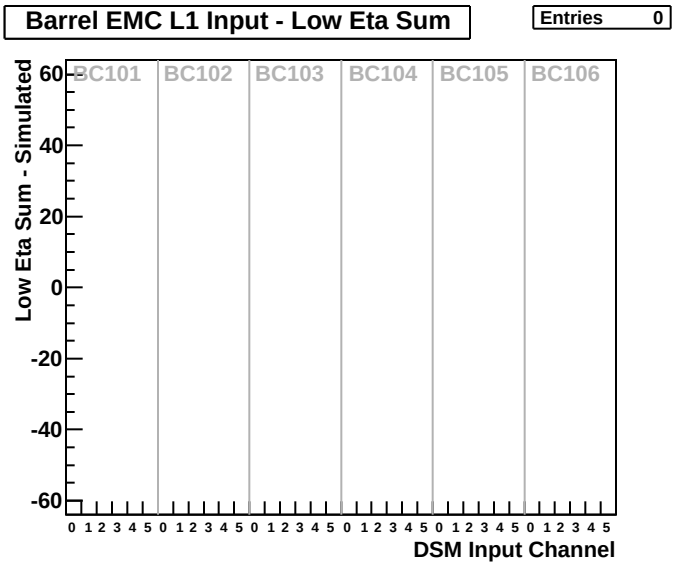

Endcap EMC L0 Input - Patch Sum
Entries 2113560
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

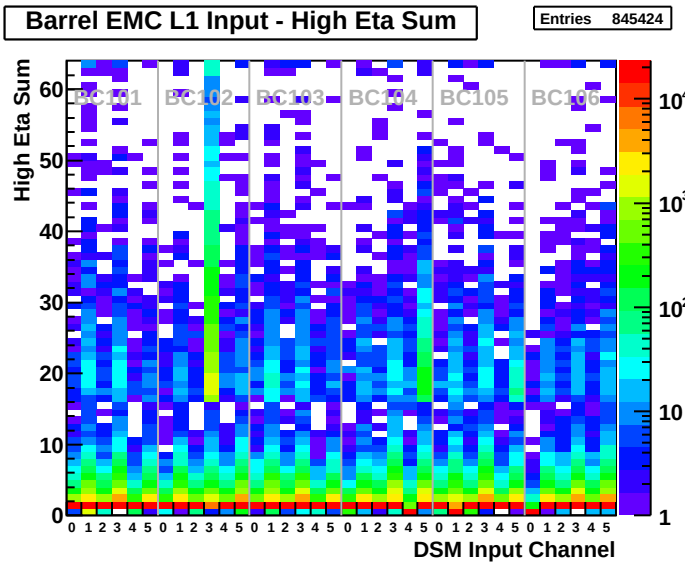

Barrel Jet Patches
Entries 422712
JP ADC
JP ID

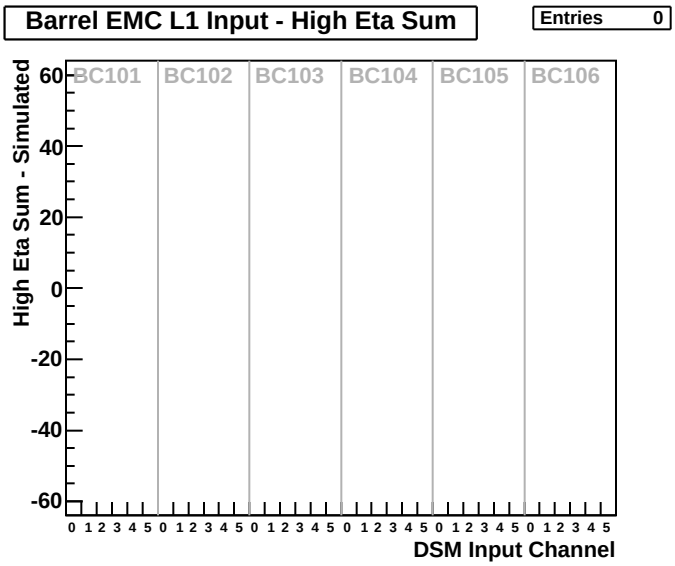

Endcap Jet Patches
Entries 140904
JP ADC
JP ID

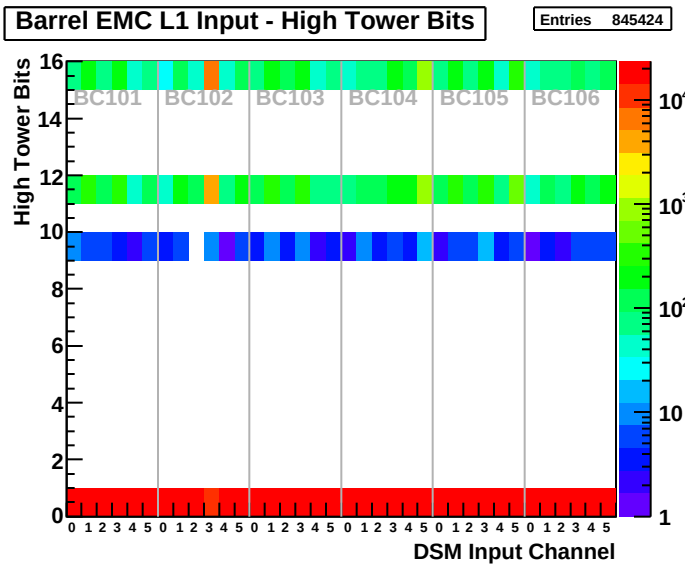

Hybrid Jet Patches
Entries 46968
JP ADC
JP ID

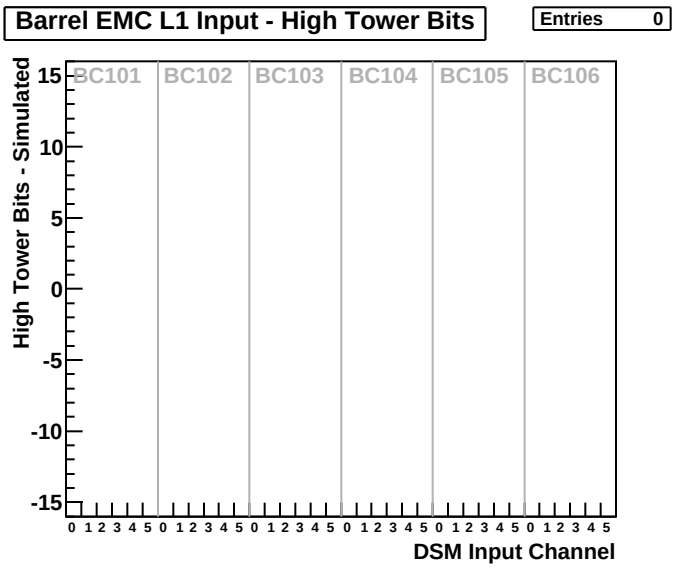

Barrel EMC L1 Input - Low Eta Sum
Entries 845424
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

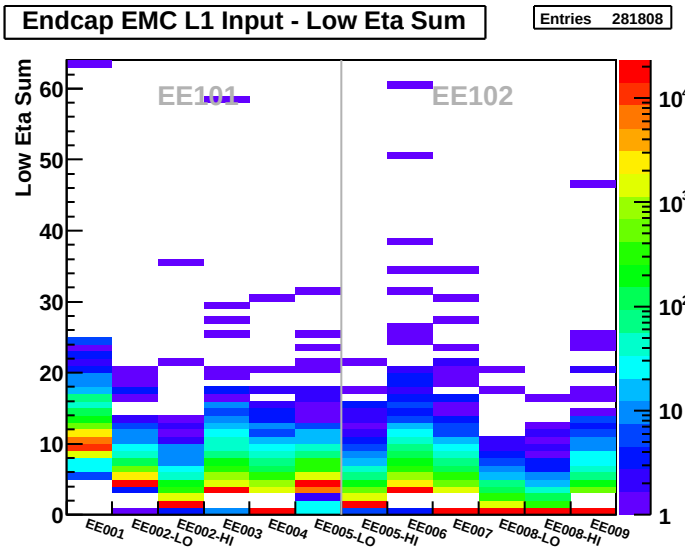

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

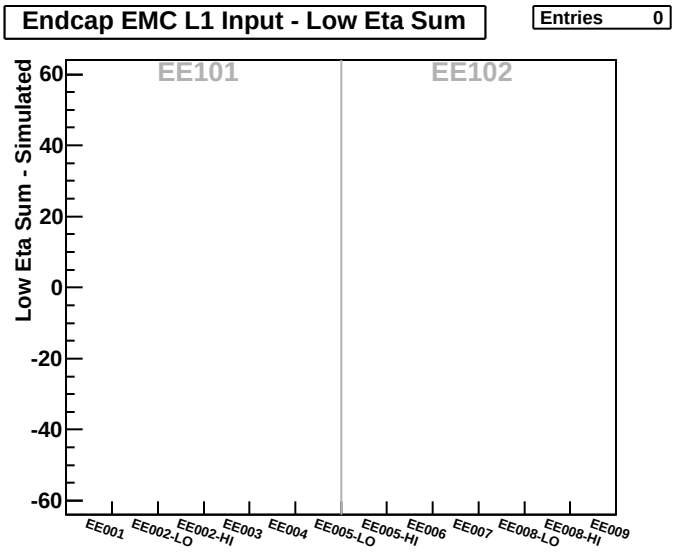

Barrel EMC L1 Input - High Eta Sum
Entries 845424
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

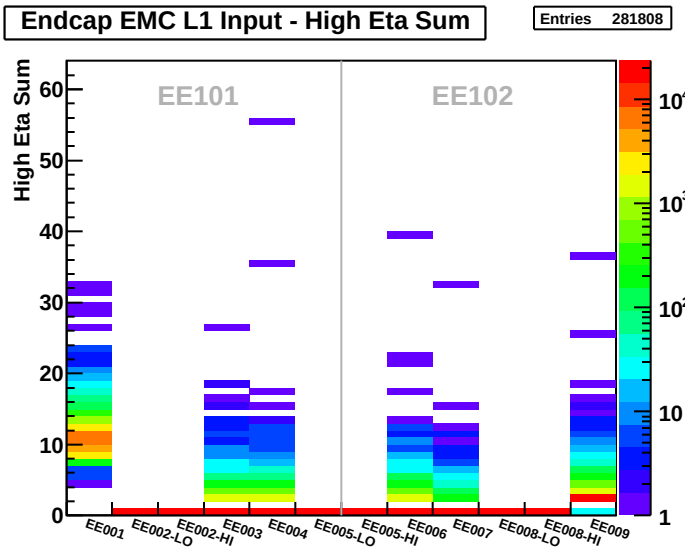

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

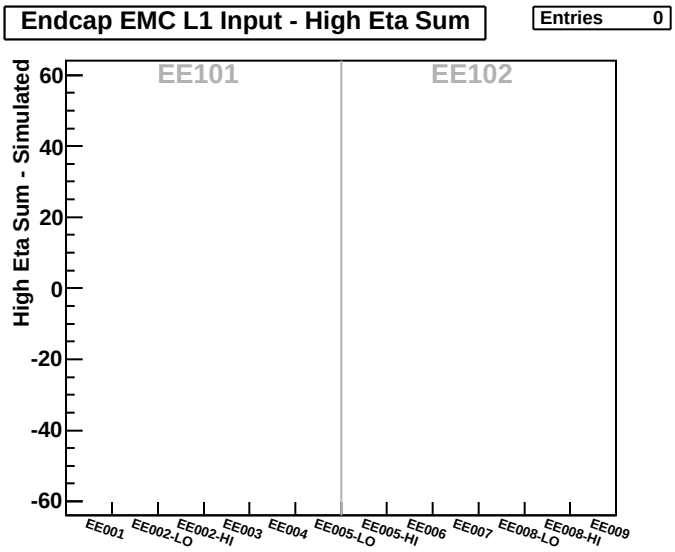

Barrel EMC L1 Input - High Tower Bits
Entries 845424
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

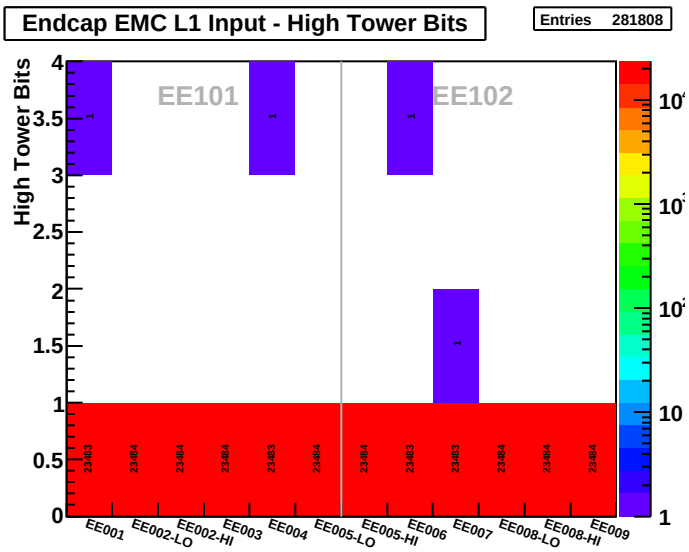

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

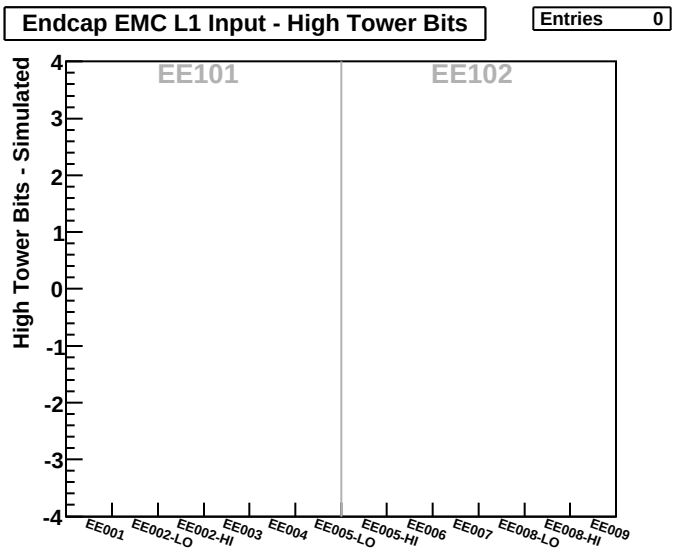

Endcap EMC L1 Input - Low Eta Sum
Entries 281808
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

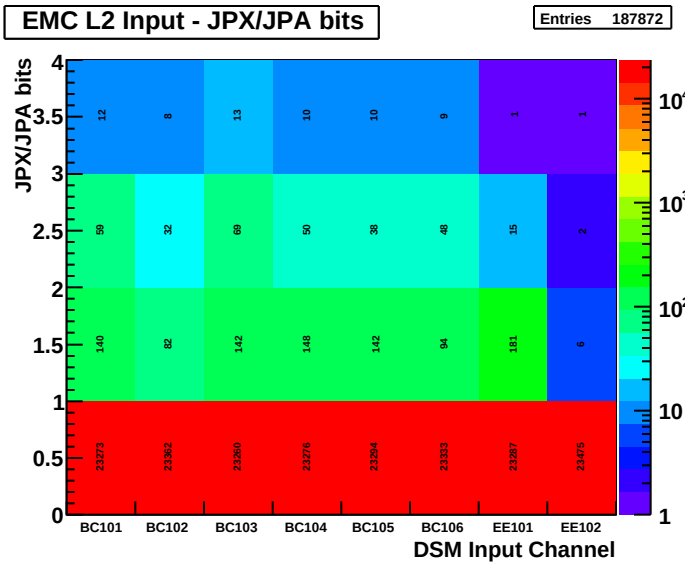

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

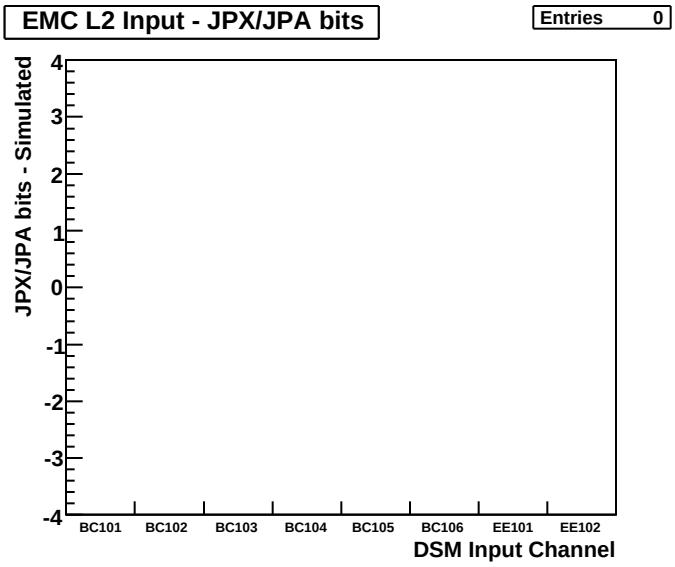

Endcap EMC L1 Input - High Eta Sum
Entries 281808
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

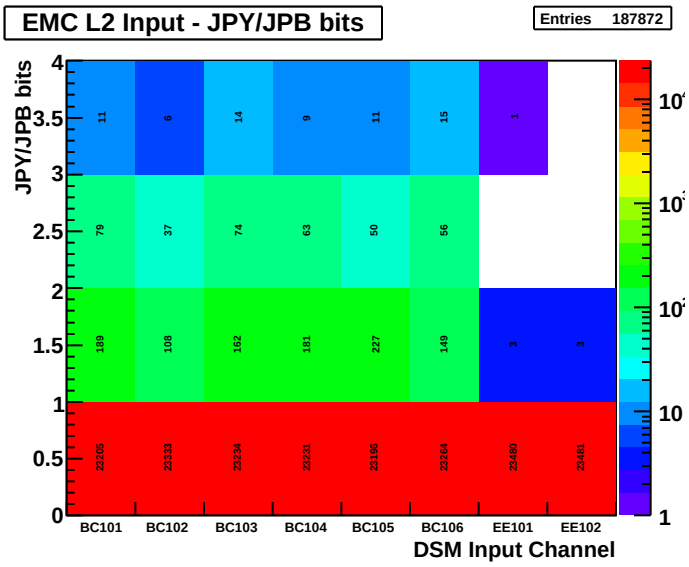

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

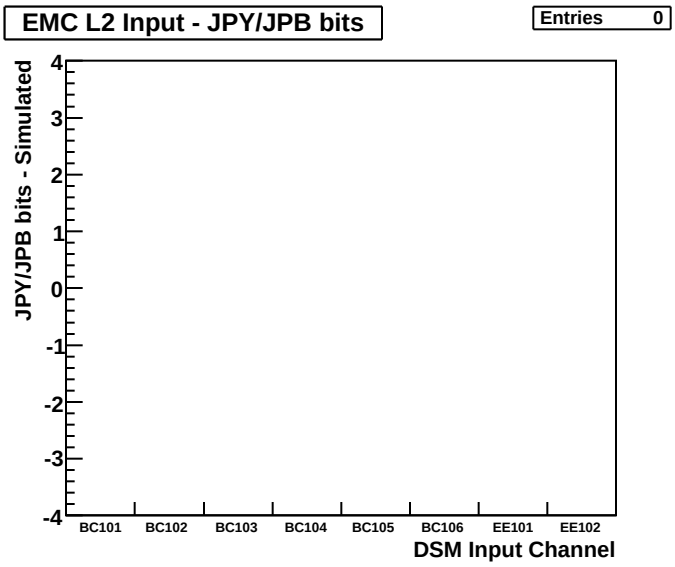

Endcap EMC L1 Input - High Tower Bits
Entries 281808
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

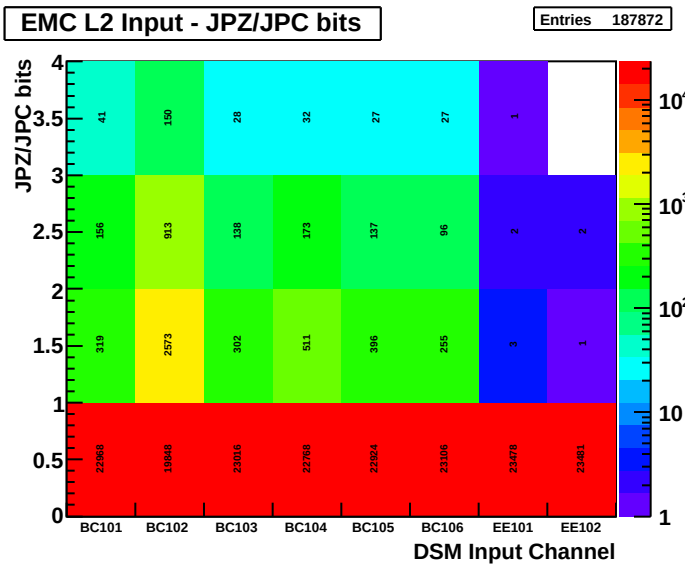

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

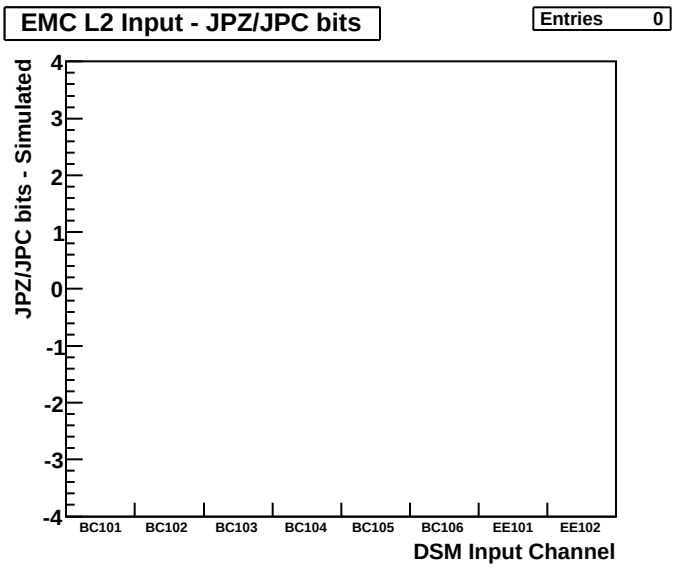

EMC L2 Input - JPX/JPA bits
Entries 187872
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
12 8 13 10 10 9 1 1
59 32 69 50 38 48 15 2
140 82 142 148 142 94 181 6
23273 23362 23260 23276 23294 23333 23287 23475

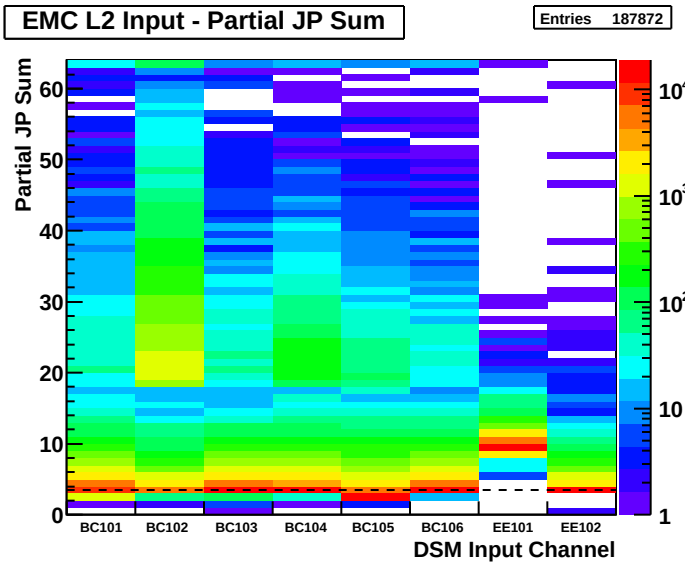

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

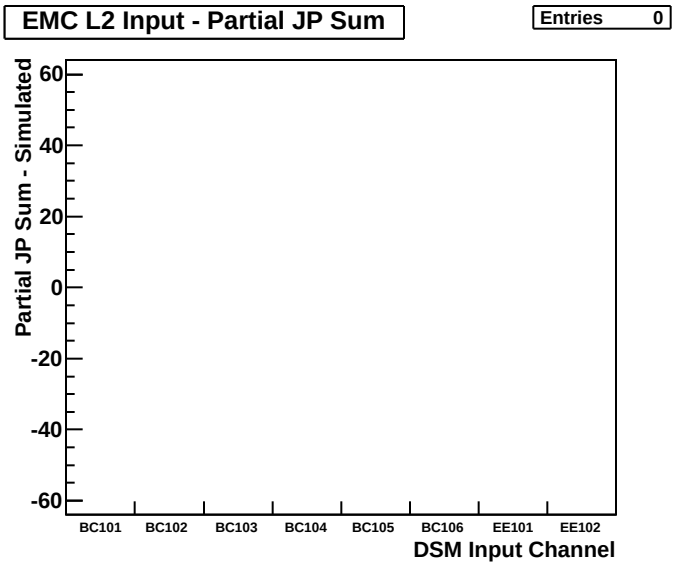

EMC L2 Input - JPY/JPB bits
Entries 187872
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
11 6 14 9 11 15 1
79 37 74 63 50 56
189 108 162 181 227 149 3 3
23205 23333 23234 23231 23196 23264 23480 23481

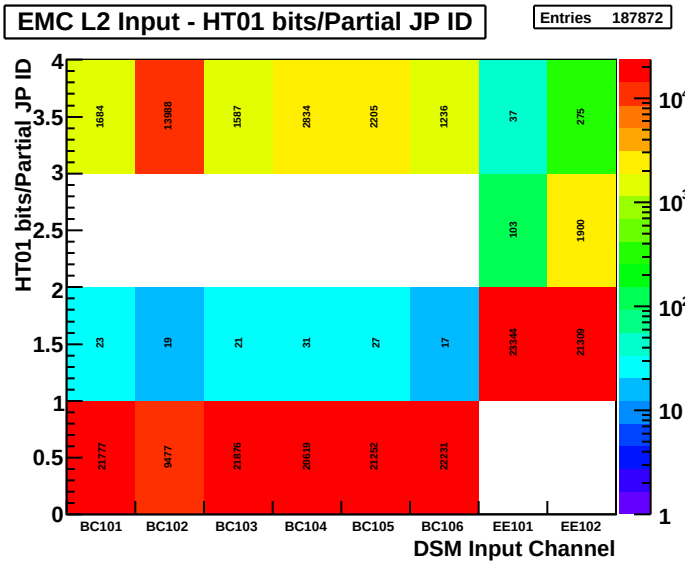

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

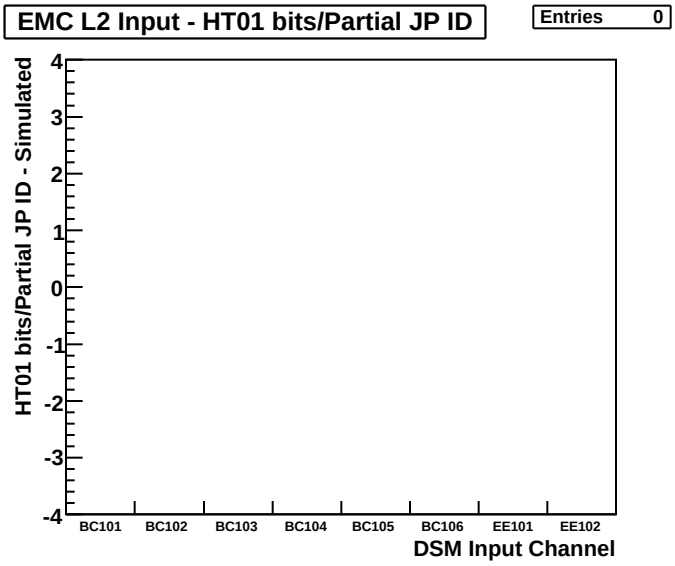

EMC L2 Input - JPZ/JPC bits
Entries 187872
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
41 150 28 32 27 27 1
156 913 138 173 137 96 2 2
319 2573 302 511 396 255 3 1
22868 19848 23016 22768 22924 23106 23478 23481

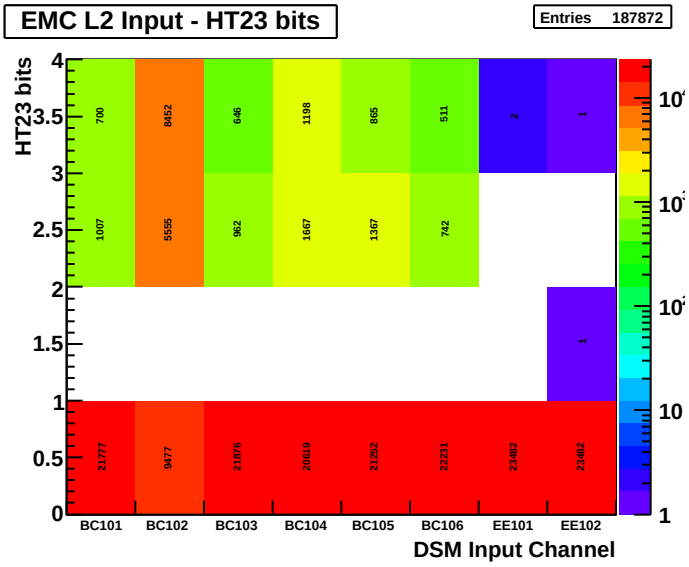

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

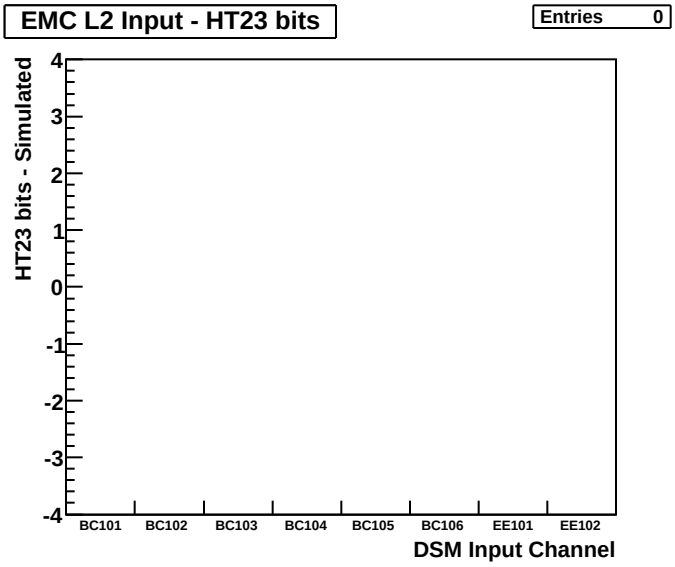

EMC L2 Input - Partial JP Sum
Entries 187872
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

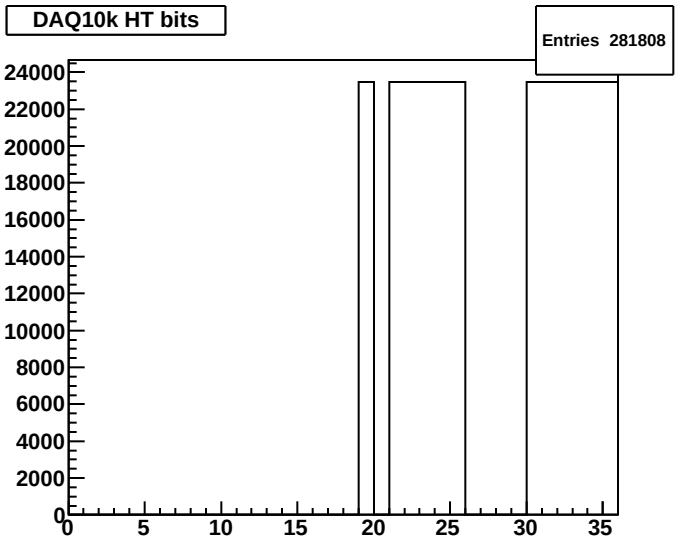

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

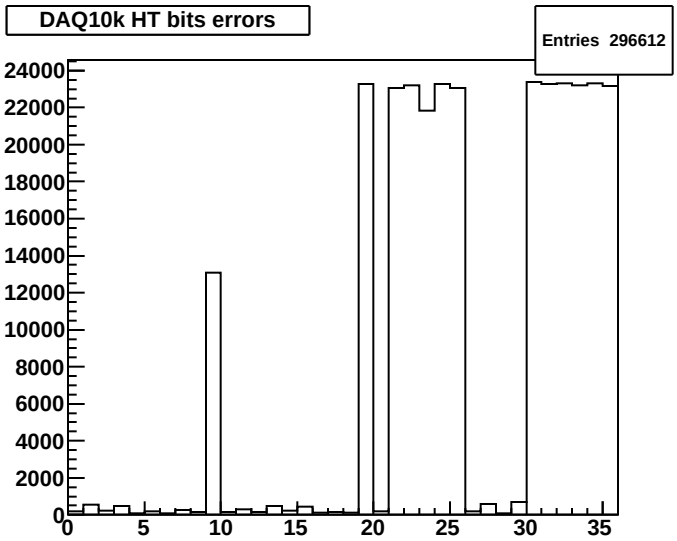

EMC L2 Input - HT01 bits/Partial JP ID
Entries 187872
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

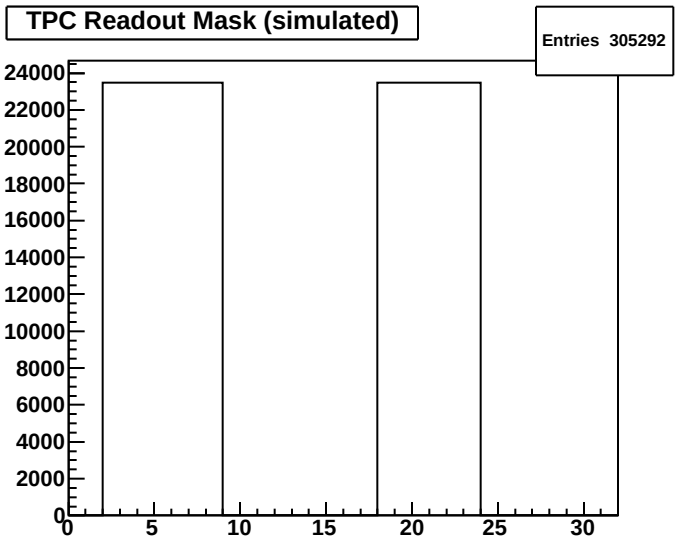

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

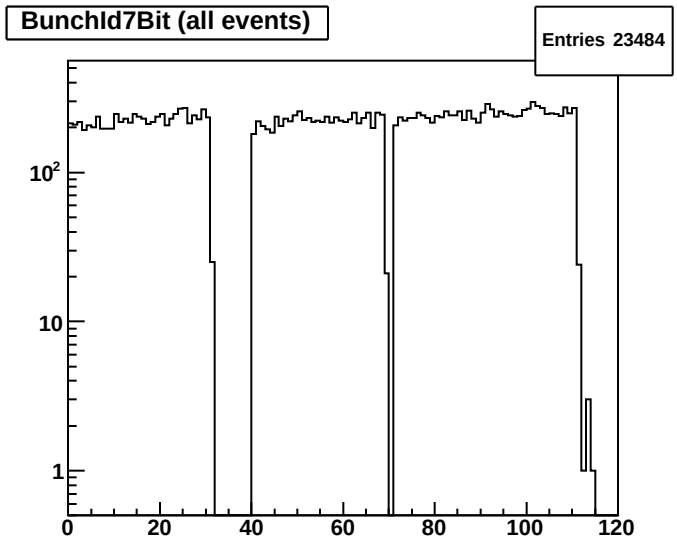

EMC L2 Input - HT23 bits
Entries 187872
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

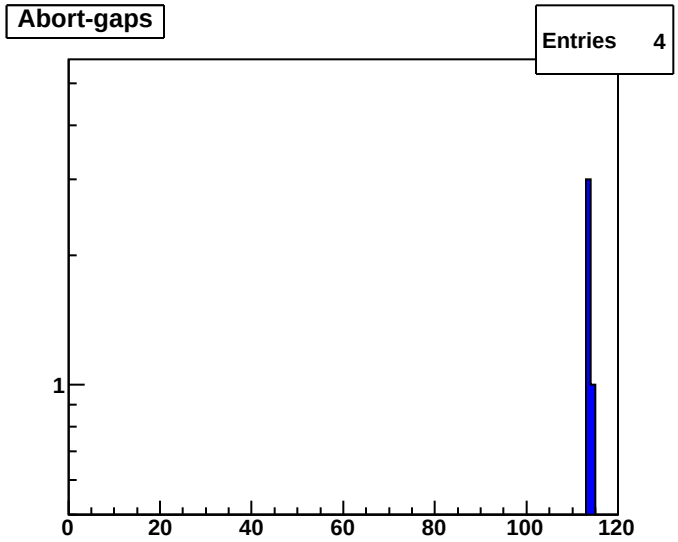

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

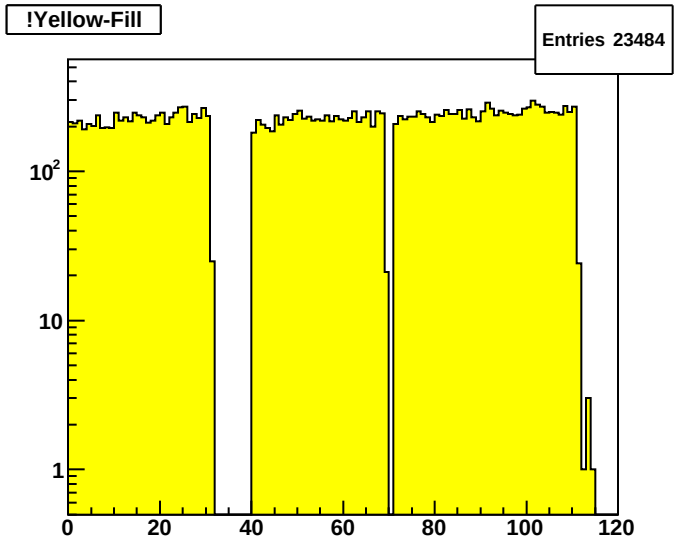

DAQ10k HT bits
Entries 281808

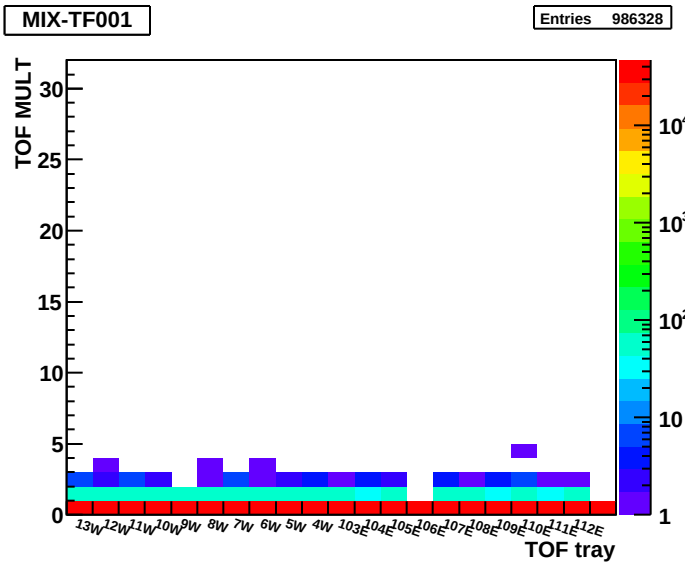

DAQ10k HT bits errors
Entries 296612

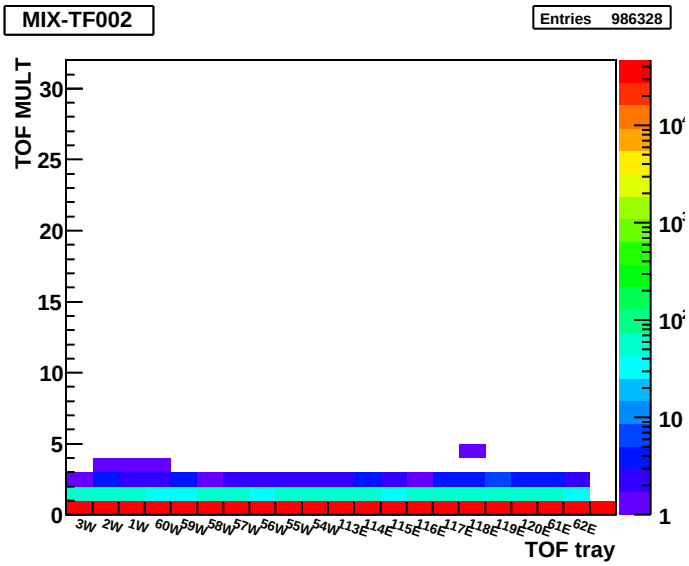

TPC Readout Mask (simulated)
Entries 305292

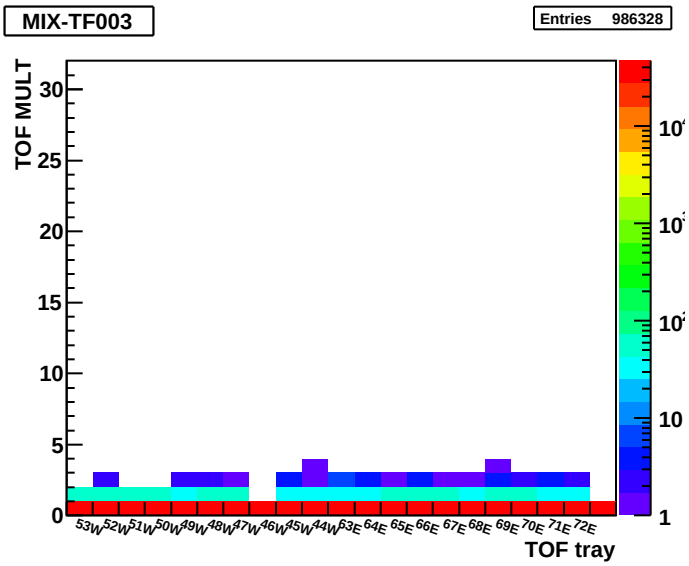

BunchId7Bit (all events)
Entries 23484

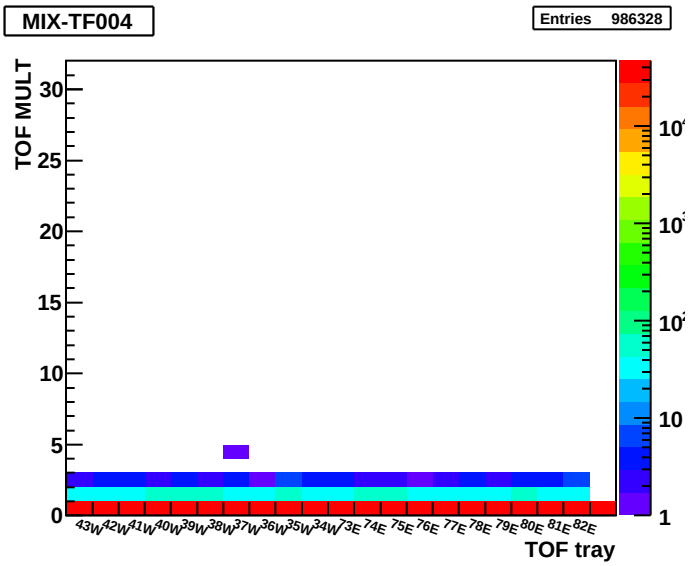

Abort-gaps
Entries 4

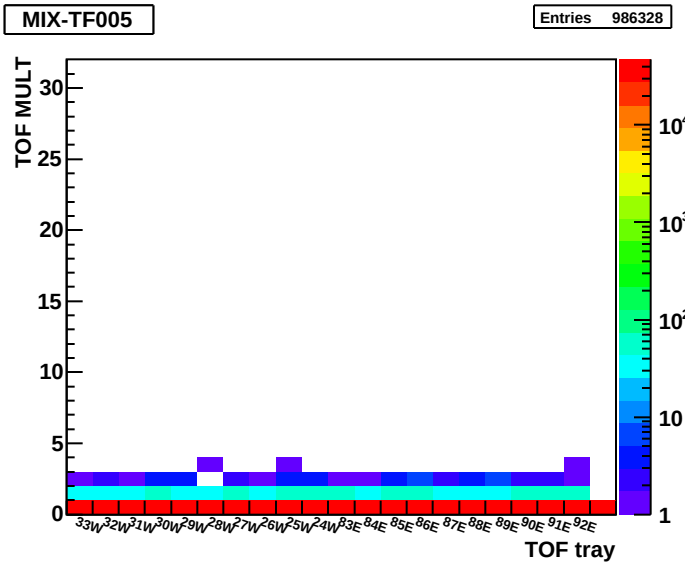

!Yellow-Fill
Entries 23484

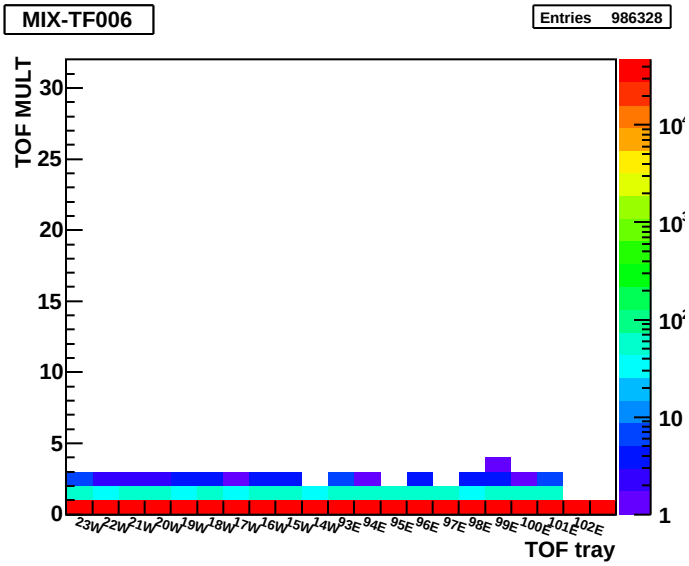

MIX-TF001
Entries 986328
TOF MULT
TOF tray

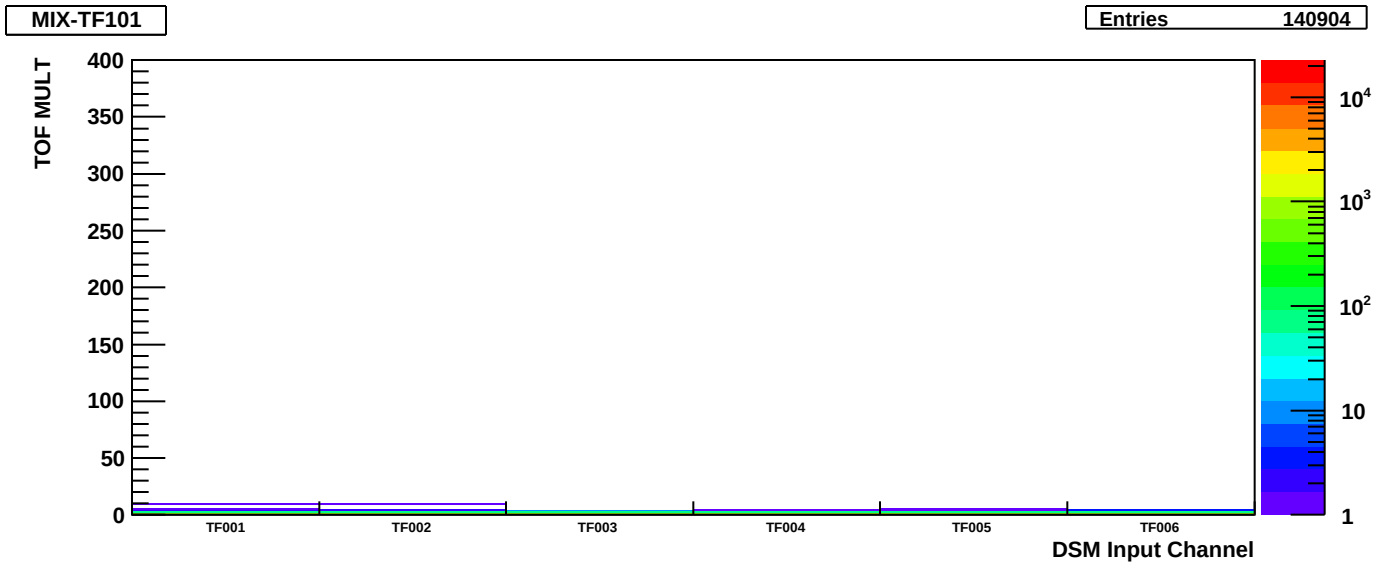

MIX-TF002
Entries 986328
TOF MULT
TOF tray

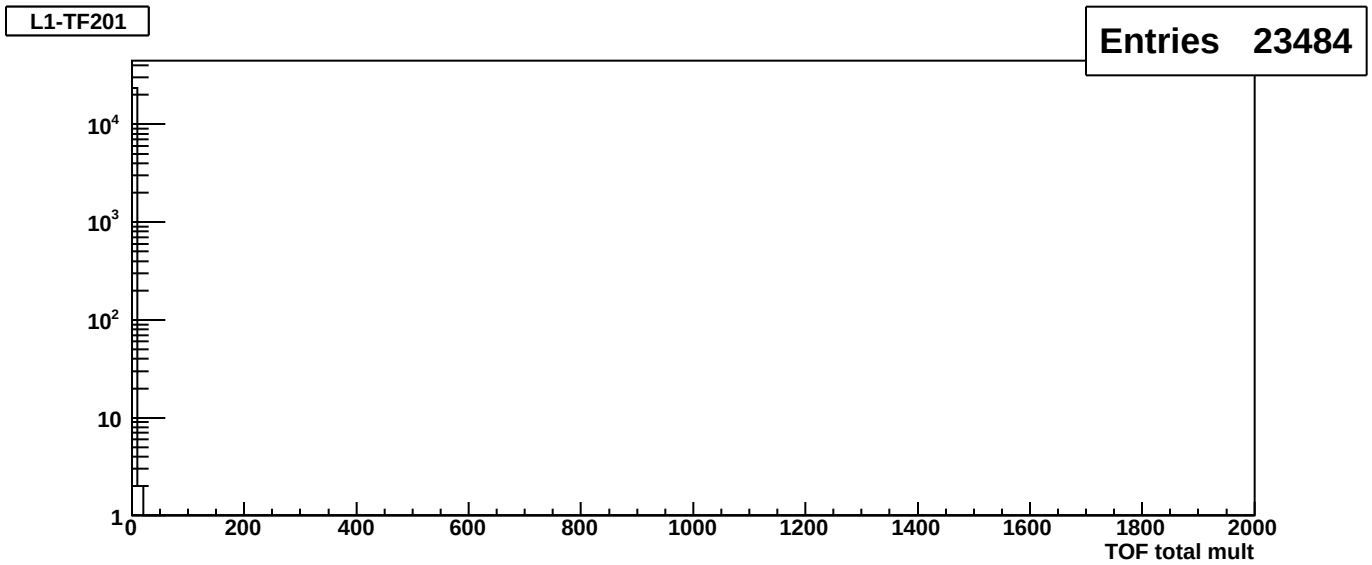

MIX-TF003
Entries 986328
TOF MULT
TOF tray

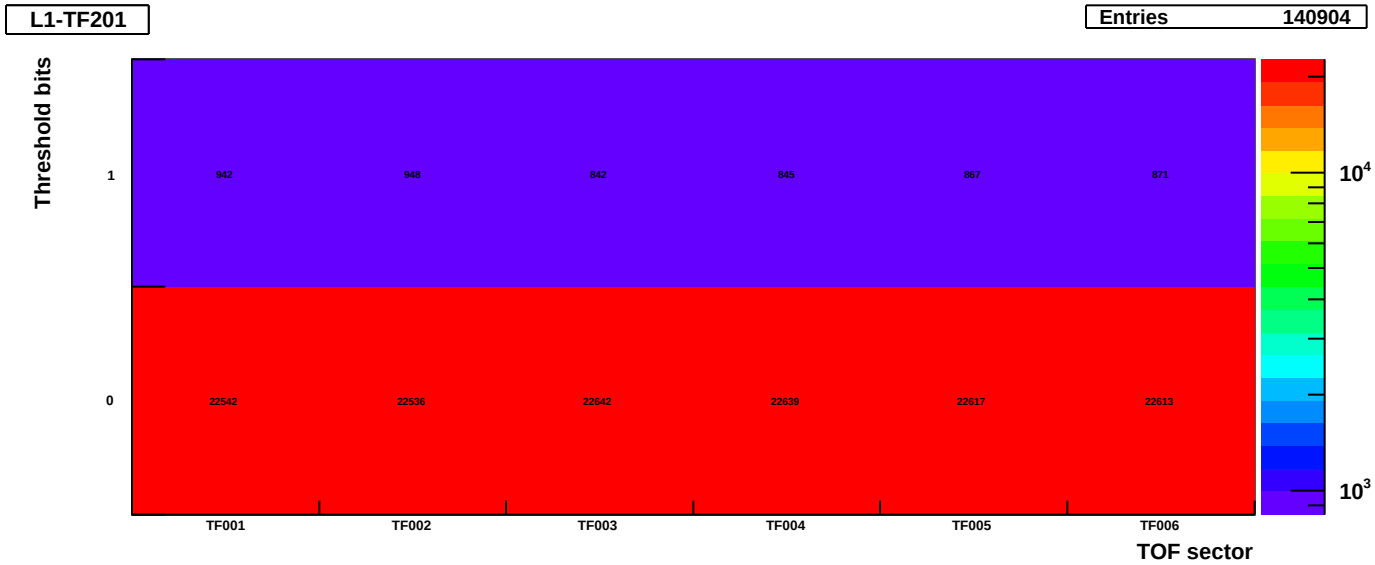

MIX-TF004
Entries 986328
TOF MULT
TOF tray

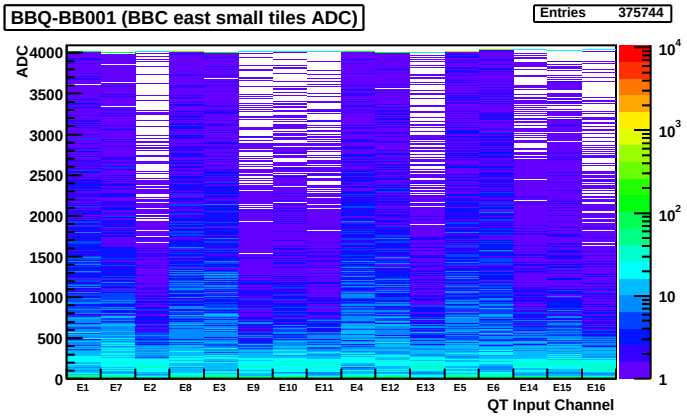

MIX-TF005
Entries 986328
TOF MULT
TOF tray

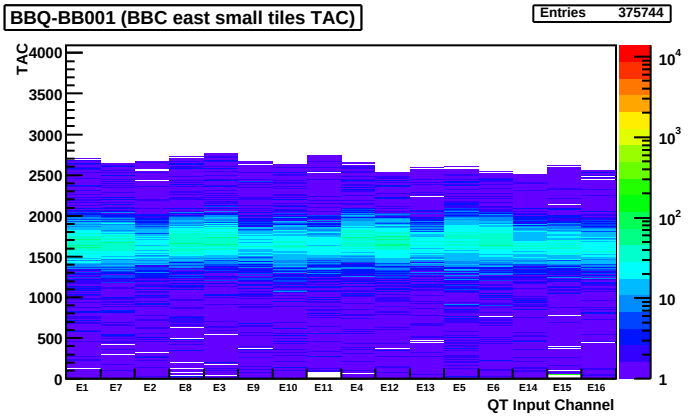

MIX-TF006
Entries 986328
TOF MULT
TOF tray

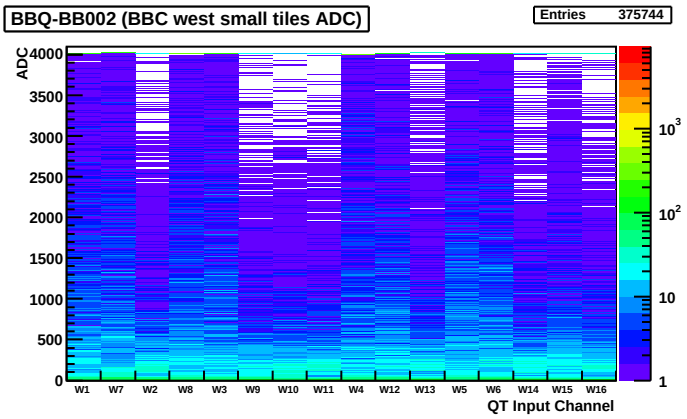

MIX-TF101
Entries 140904
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

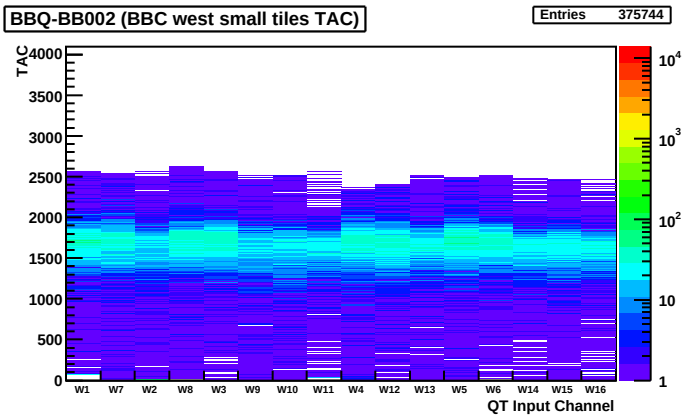

L1-TF201
Entries 23484
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

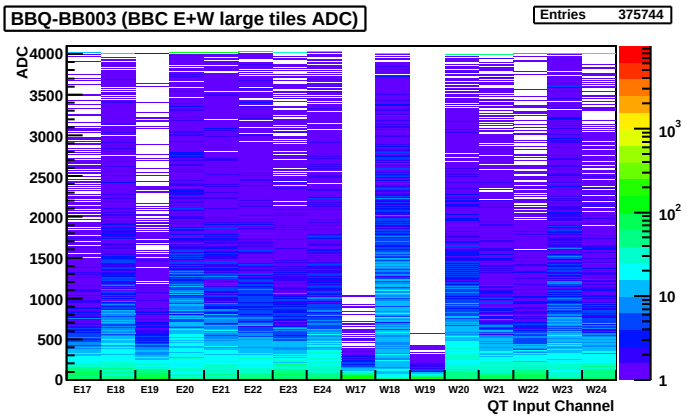

L1-TF201
Entries 140904
Threshold bits
1
0
942
948
842
845
867
871
22542
22536
22642
22639
22617
22613
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3

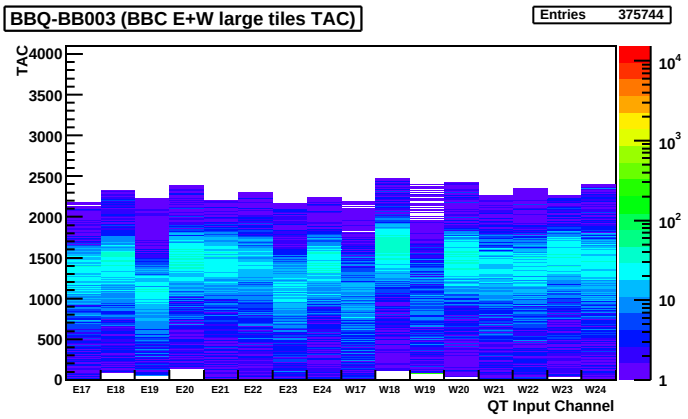

BBQ-BB001 (BBC east small tiles ADC)
Entries 375744
ADC
QT Input Channel

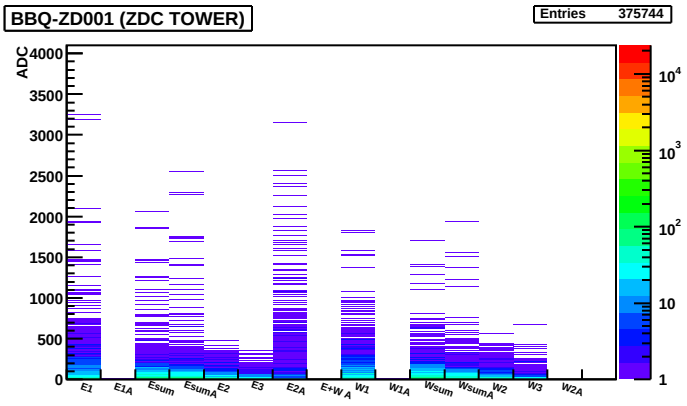

BBQ-BB001 (BBC east small tiles TAC)
Entries 375744
TAC
QT Input Channel

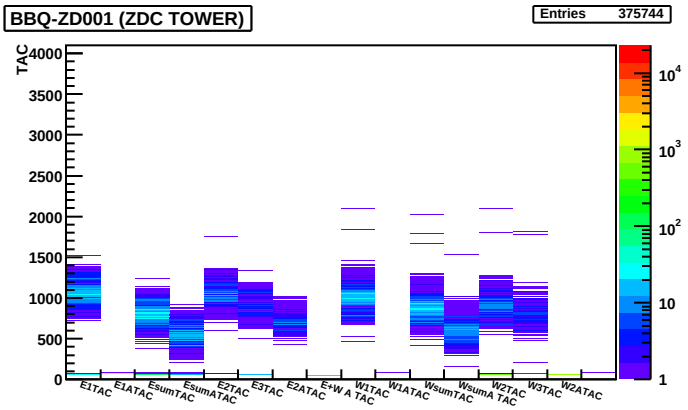

BBQ-BB002 (BBC west small tiles ADC)
Entries 375744
ADC
QT Input Channel

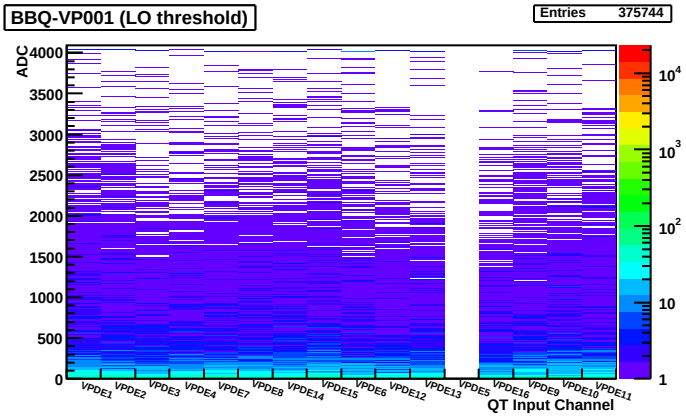

BBQ-BB002 (BBC west small tiles TAC)
Entries 375744
TAC
QT Input Channel

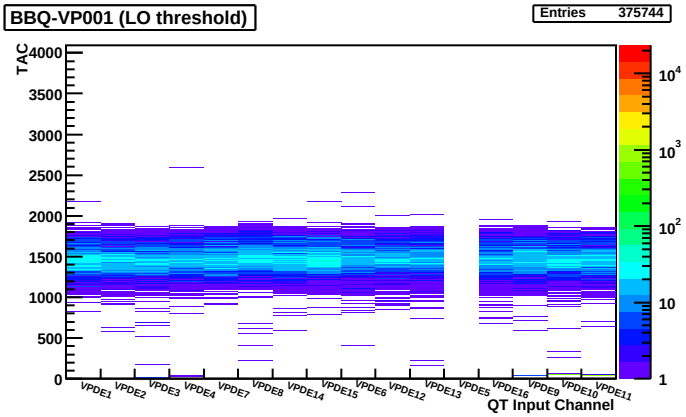

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 375744
ADC
QT Input Channel

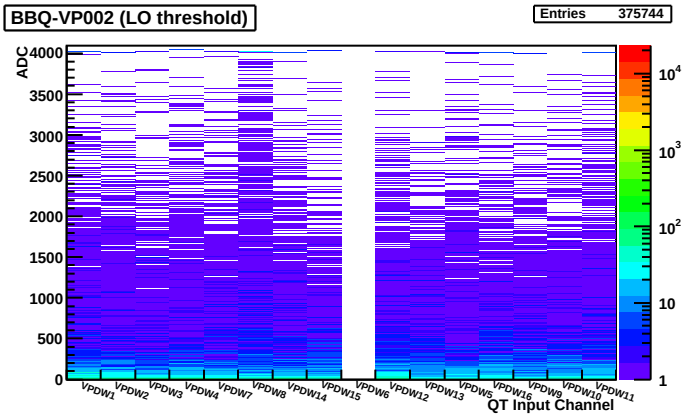

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 375744
TAC
QT Input Channel

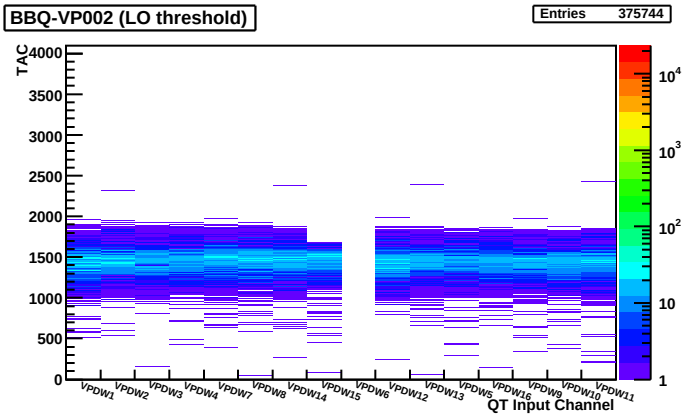

BBQ-ZD001 (ZDC TOWER)
Entries 375744
ADC

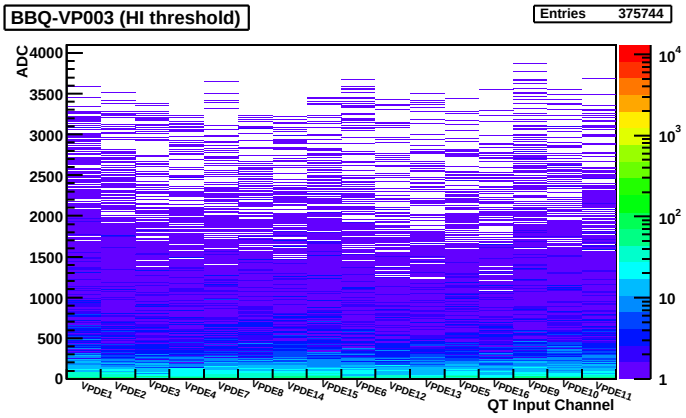

BBQ-ZD001 (ZDC TOWER)
Entries 375744
TAC

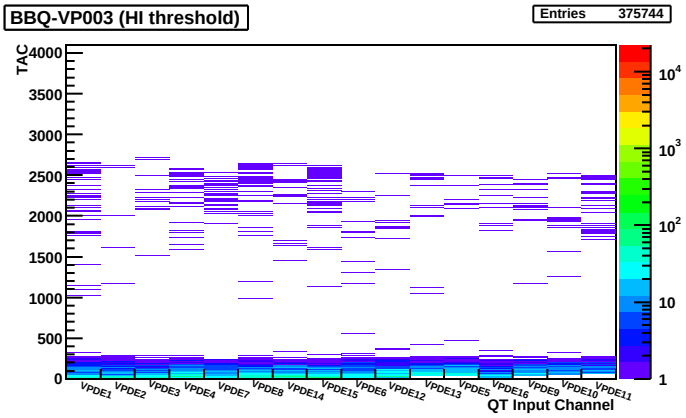

BBQ-VP001 (LO threshold)
Entries 375744
ADC
QT Input Channel

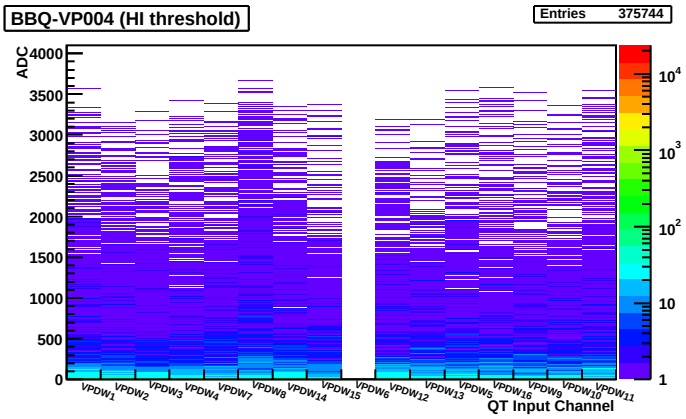

BBQ-VP001 (LO threshold)
Entries 375744
TAC
QT Input Channel

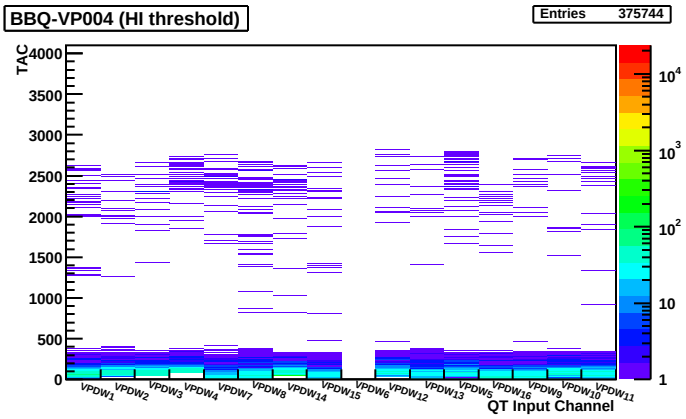

BBQ-VP002 (LO threshold)
Entries 375744
ADC
QT Input Channel

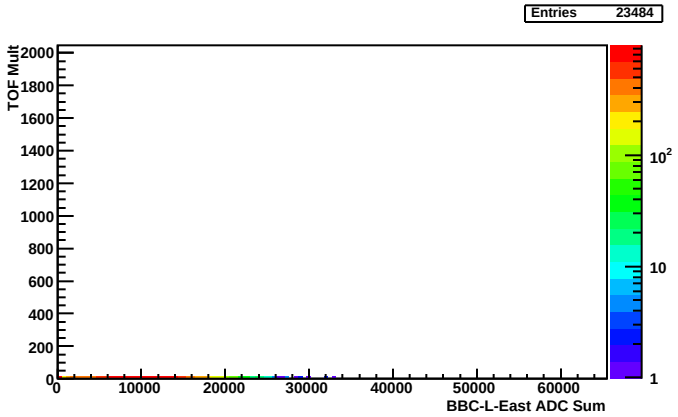

BBQ-VP002 (LO threshold)
Entries 375744
TAC
QT Input Channel

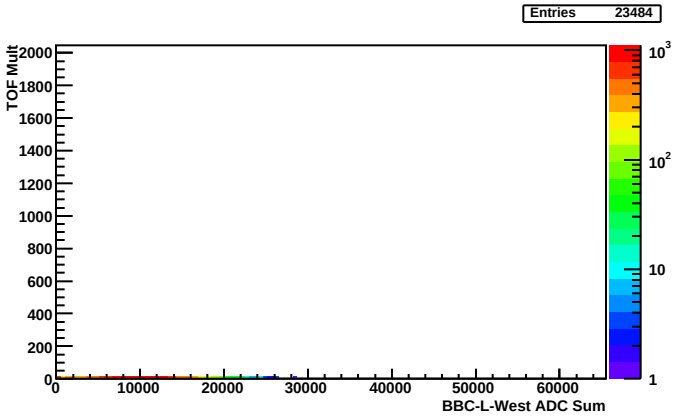

BBQ-VP003 (HI threshold)
Entries 375744
ADC
QT Input Channel

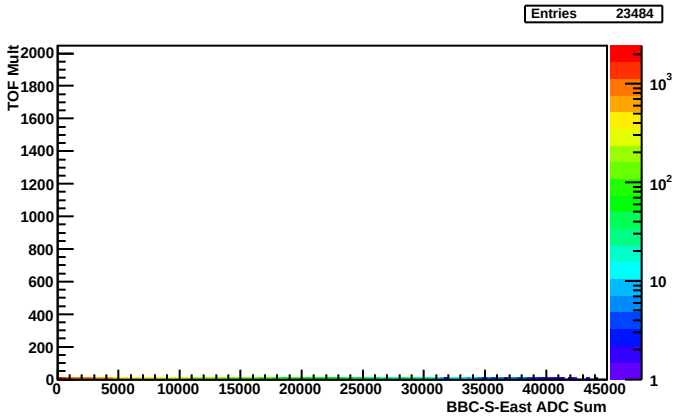

BBQ-VP003 (HI threshold)
Entries 375744
TAC
QT Input Channel

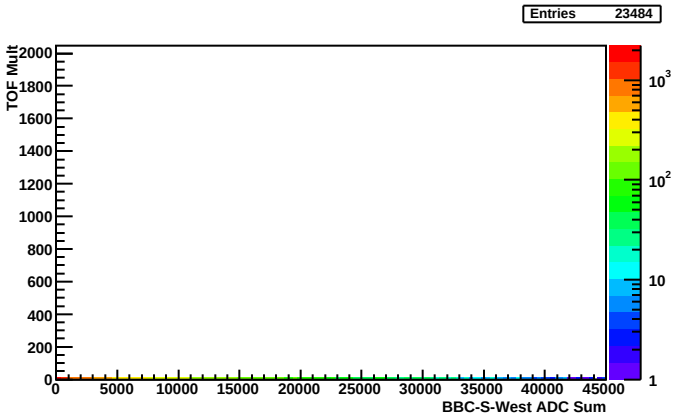

BBQ-VP004 (HI threshold)
Entries 375744
ADC
QT Input Channel

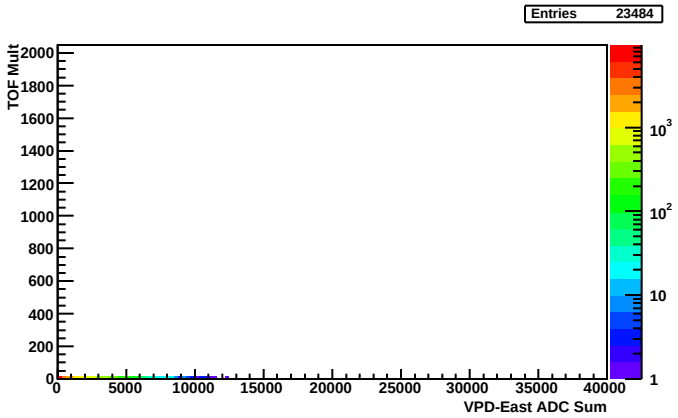

BBQ-VP004 (HI threshold)
Entries 375744
TAC
QT Input Channel

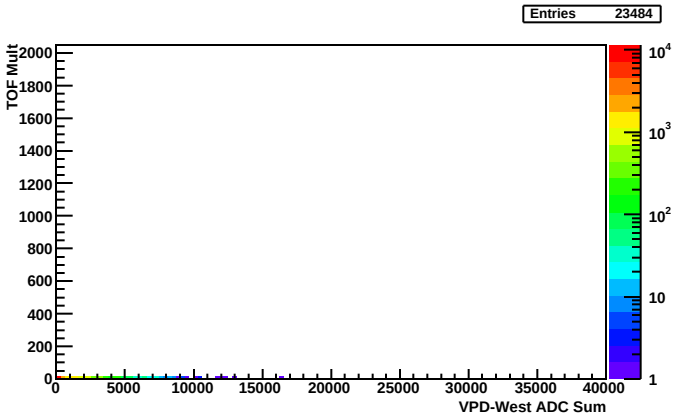

Entries 23484
TOF Mult
BBC-L-East ADC Sum

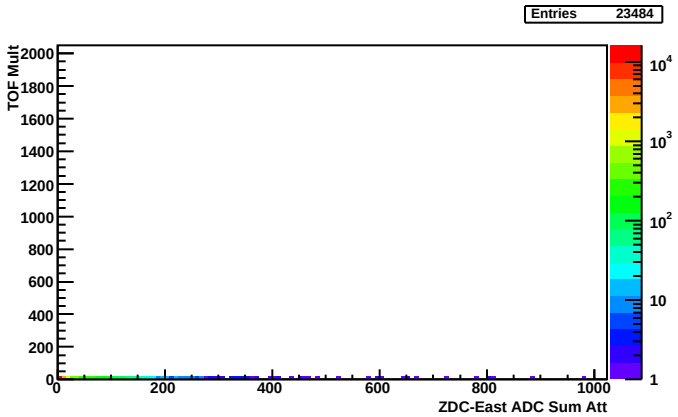

Entries 23484
TOF Mult
BBC-L-West ADC Sum

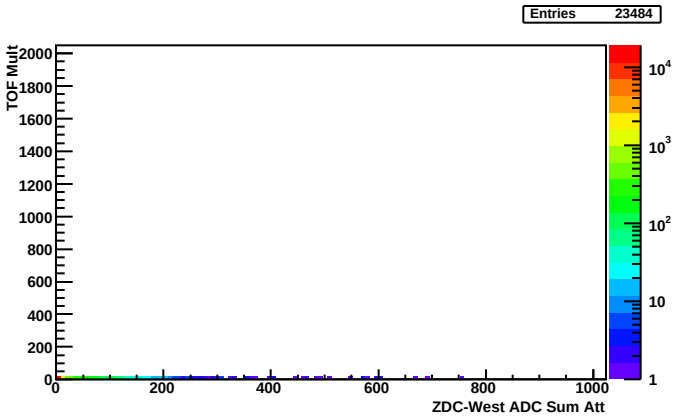

Entries 23484
TOF Mult
BBC-S-East ADC Sum

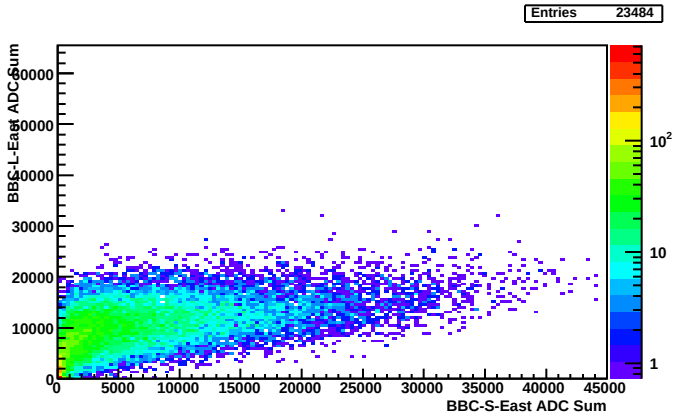

Entries 23484
TOF Mult
BBC-S-West ADC Sum

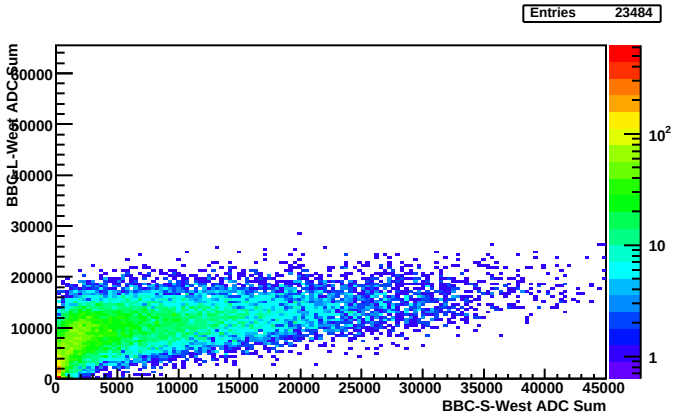

Entries 23484
TOF Mult
VPD-East ADC Sum

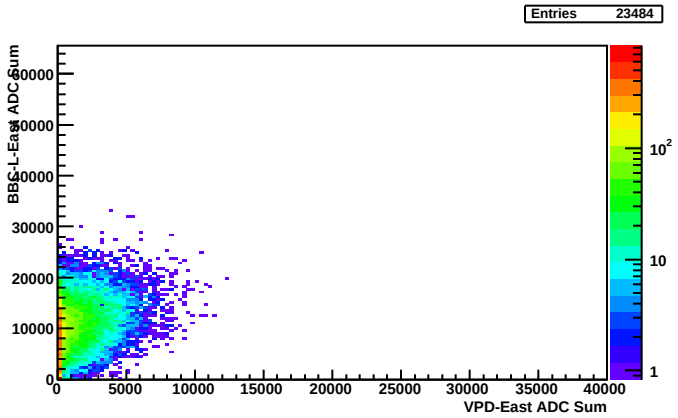

Entries 23484
TOF Mult
VPD-West ADC Sum

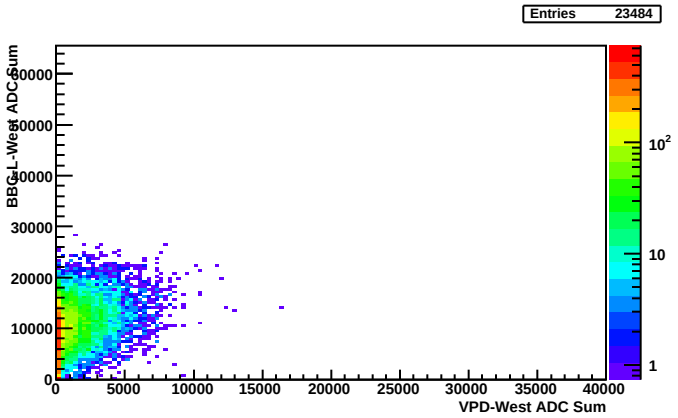

Entries 23484
TOF Mult
ZDC-East ADC Sum Att

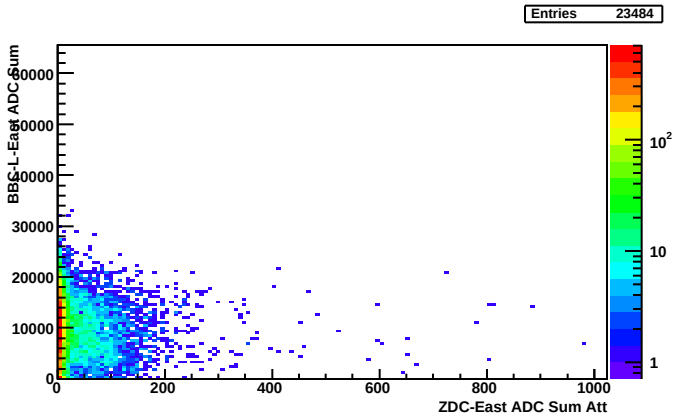

Entries 23484
TOF Mult
ZDC-West ADC Sum Att

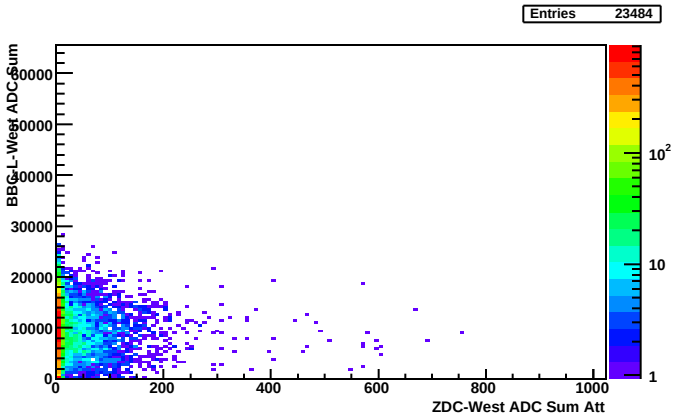

Entries 23484
BBC-L-East ADC Sum
BBC-S-East ADC Sum

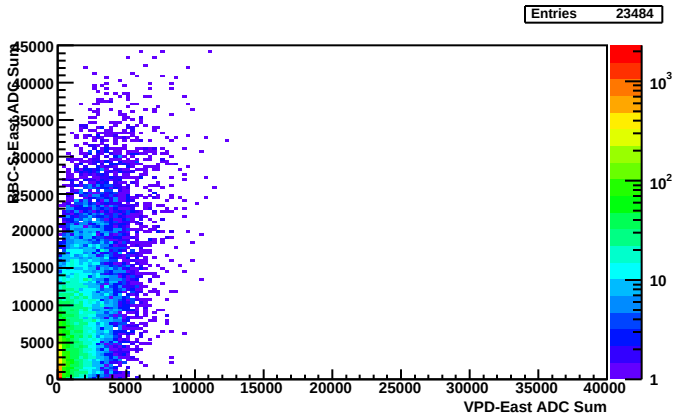

Entries 23484
BBC-L-West ADC Sum
BBC-S-West ADC Sum

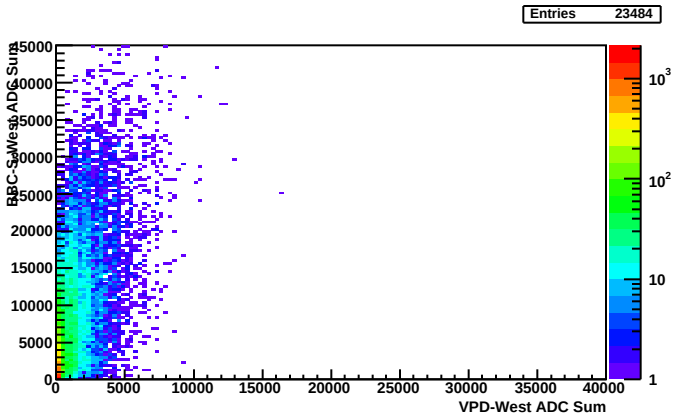

Entries 23484
BBC-L-East ADC Sum
VPD-East ADC Sum

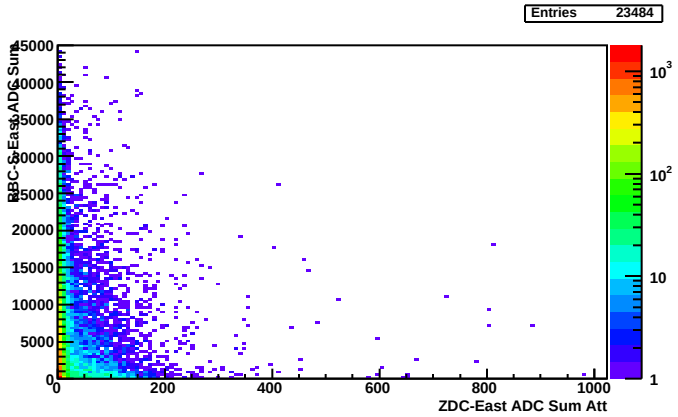

Entries 23484
BBC-L-West ADC Sum
VPD-West ADC Sum

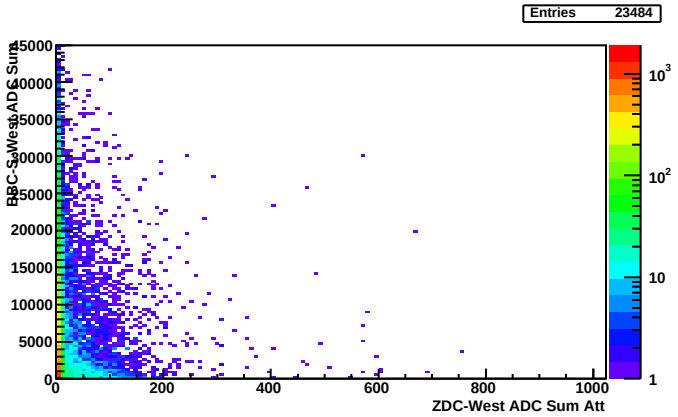

Entries 23484
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

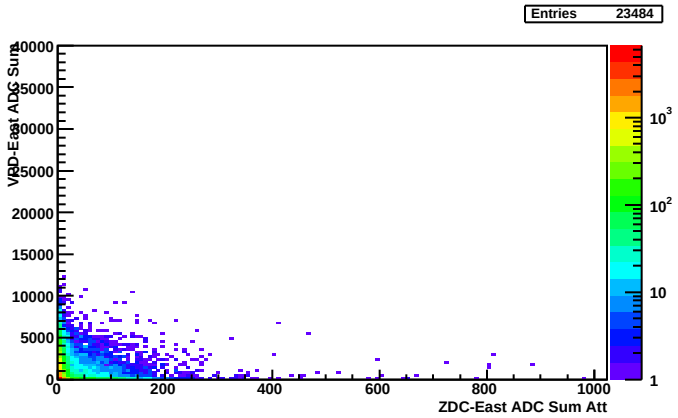

Entries 23484
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

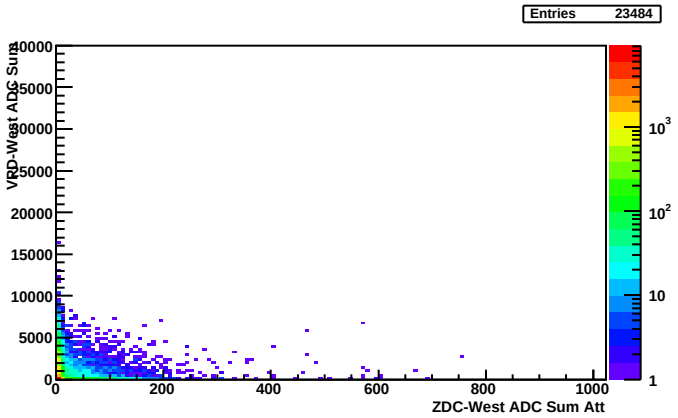

Entries 23484
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 23484
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 23484
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 23484
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 23484
VPD-East ADC Sum
ZDC-East ADC Sum Att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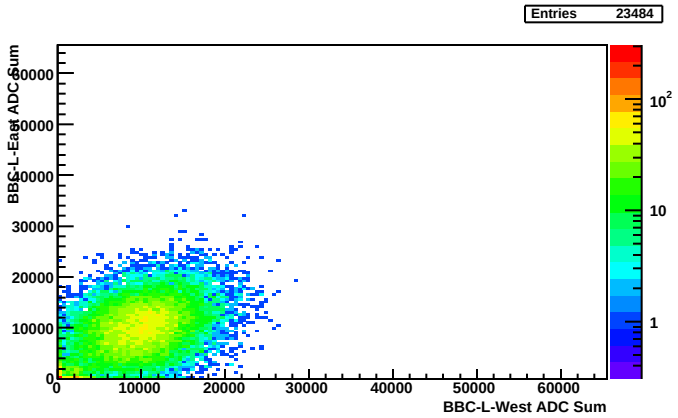
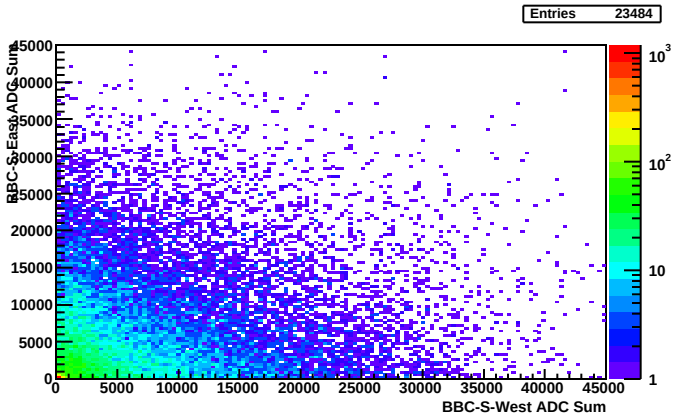
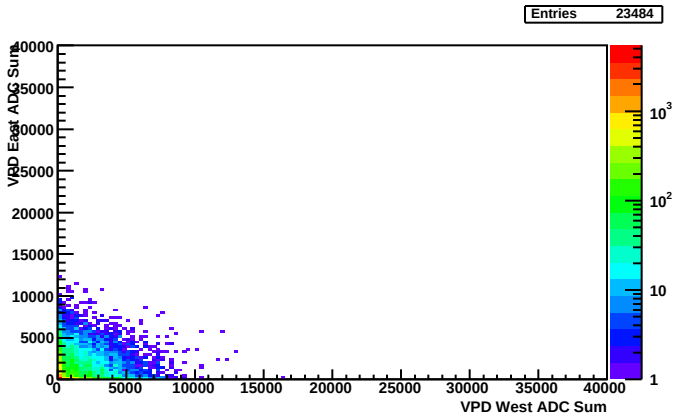
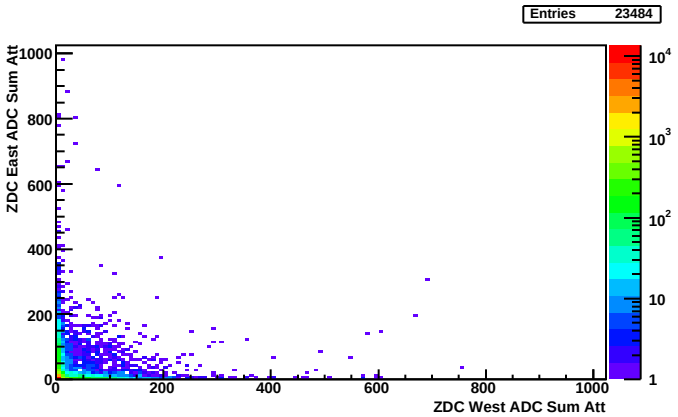
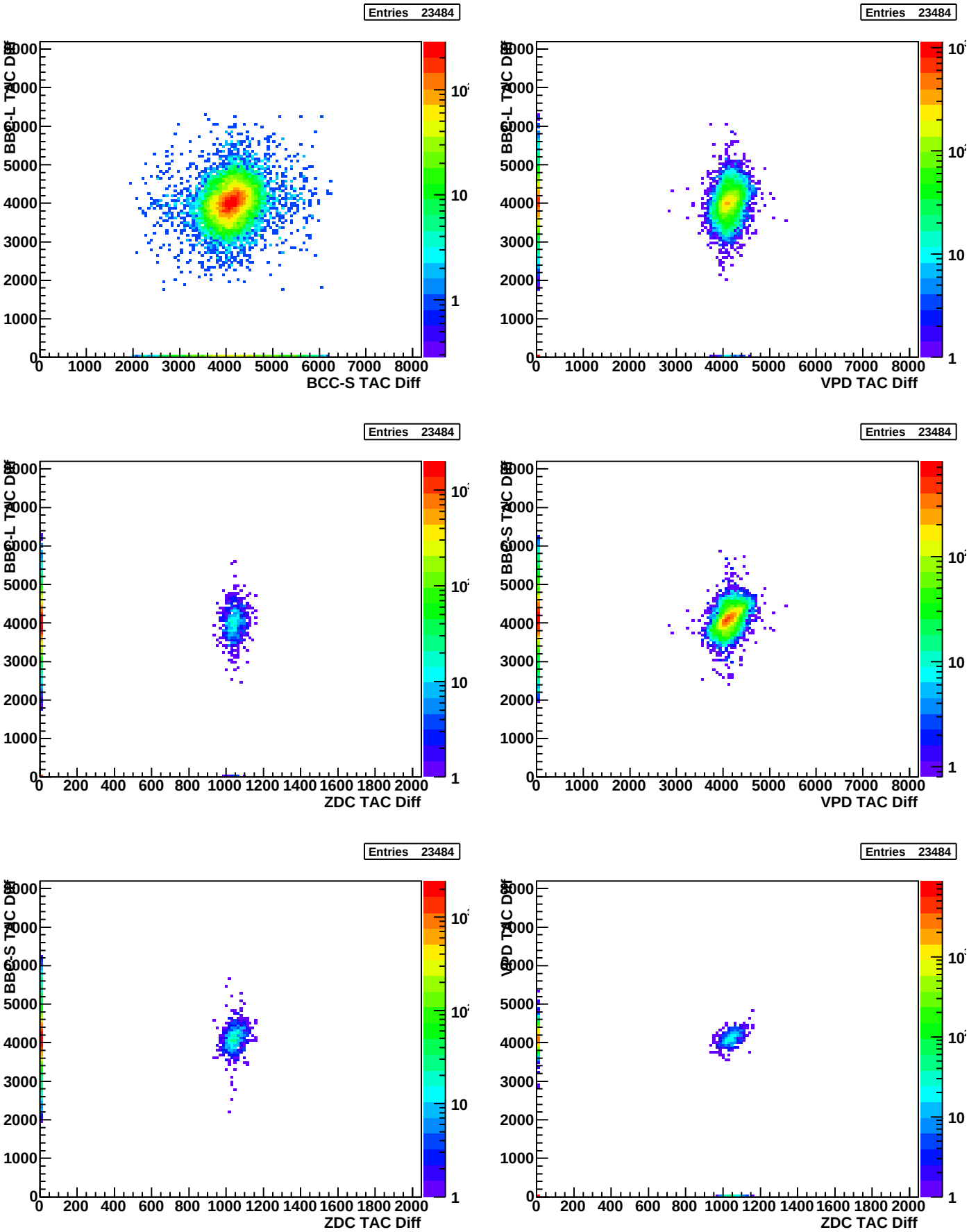
VPD-West ADC Sum
ZDC-West ADC Sum Att

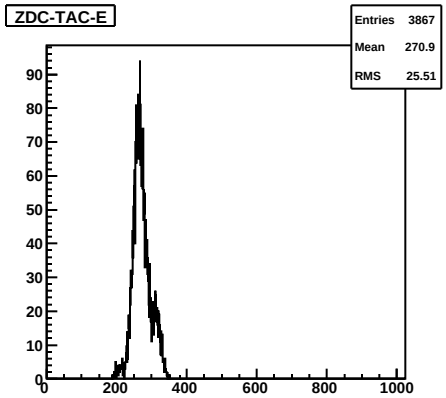

Entries 23484
BBC-L-East ADC Sum
BBC-L-West ADC Sum

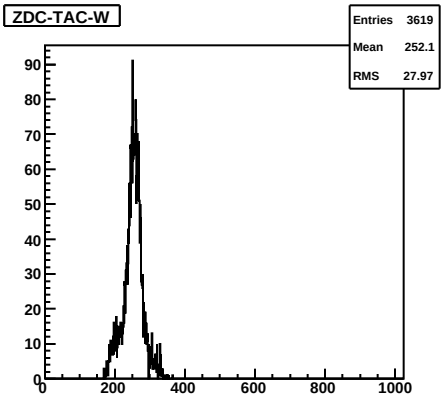

Entries 23484
BBC-S-East ADC Sum
BBC-S-West ADC Sum

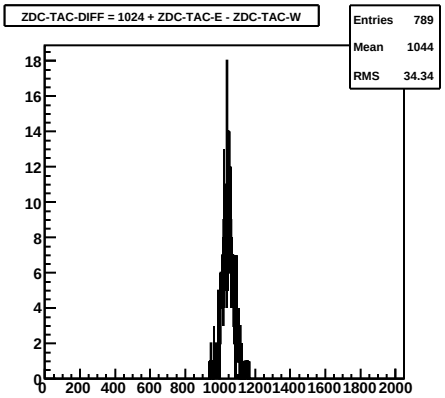

Entries 23484
VPD East ADC Sum
VPD West ADC Sum

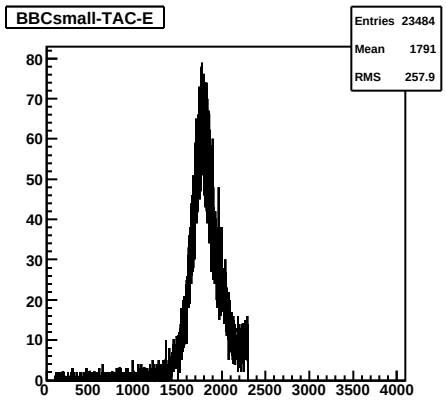

Entries 23484
ZDC East ADC Sum Att
ZDC West ADC Sum Att

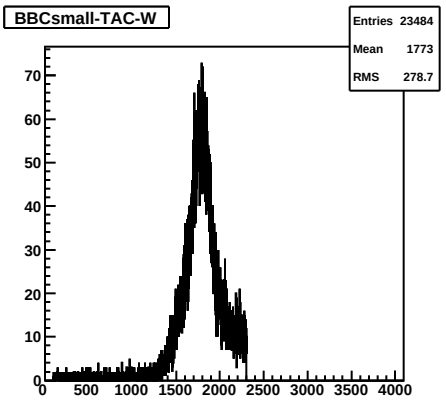

Entries 23484
BBC-L TAC Diff
BCC-S TAC Diff
Entries 23484
BBC-L TAC Diff
VPD TAC Diff
Entries 23484
BBC-L TAC Diff
ZDC TAC Diff
Entries 23484
BBC-S TAC Diff
VPD TAC Diff
Entries 23484
BBC-S TAC Diff
ZDC TAC Diff
Entries 23484
VPD TAC Diff
ZDC TAC Diff

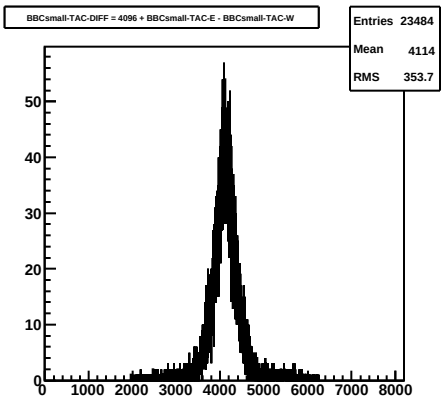

ZDC-TAC-E
Entries 3867
Mean 270.9
RMS 25.51

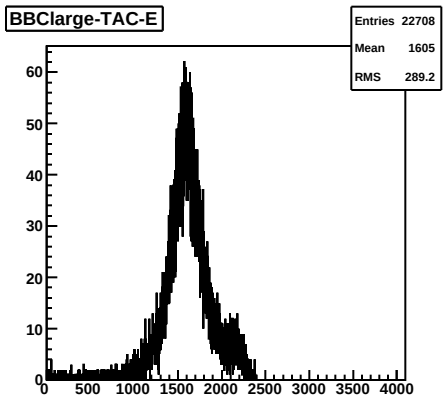

ZDC-TAC-W
Entries 3619
Mean 252.1
RMS 27.97

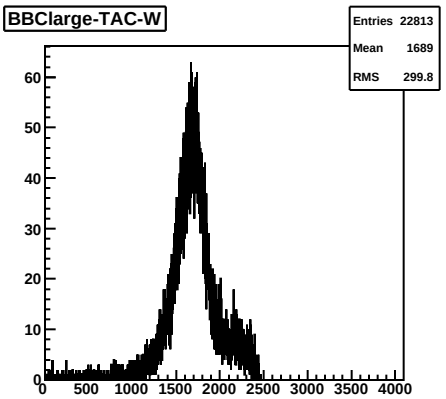

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 789
Mean 1044
RMS 34.34

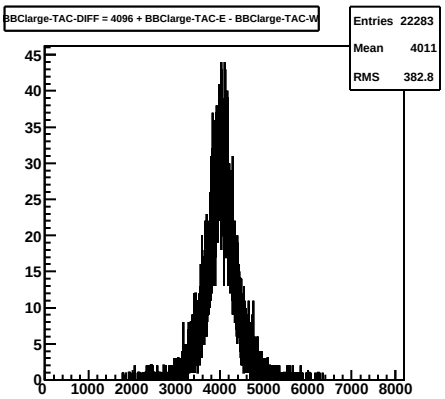

BBCsmall-TAC-E
Entries 23484
Mean 1791
RMS 257.9

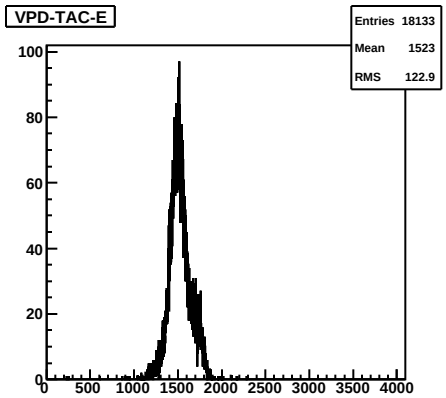

BBCsmall-TAC-W
Entries 23484
Mean 1773
RMS 278.7

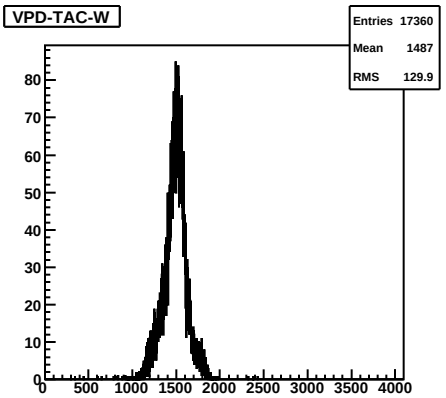

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 23484
Mean 4114
RMS 353.7

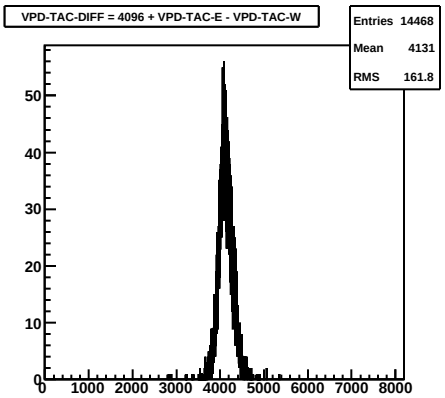

BBClarge-TAC-E
Entries 22708
Mean 1605
RMS 289.2

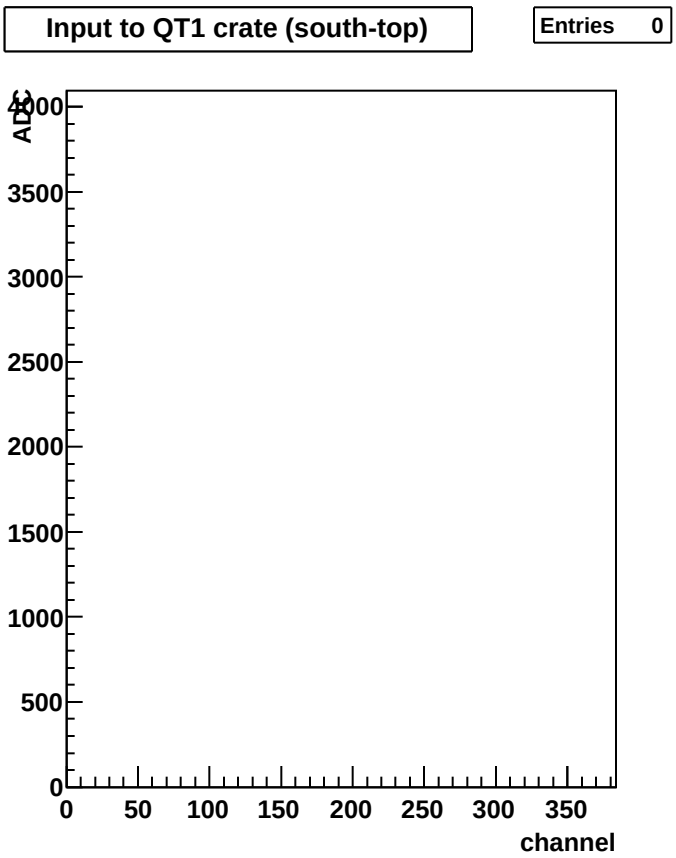

BBClarge-TAC-W
Entries 22813
Mean 1689
RMS 299.8

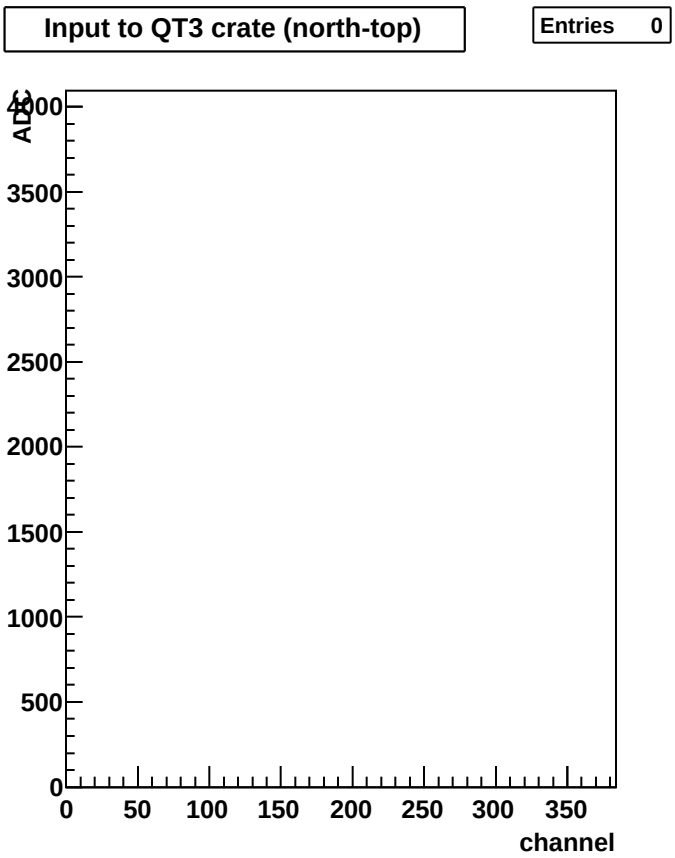

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 22283
Mean 4011
RMS 382.8

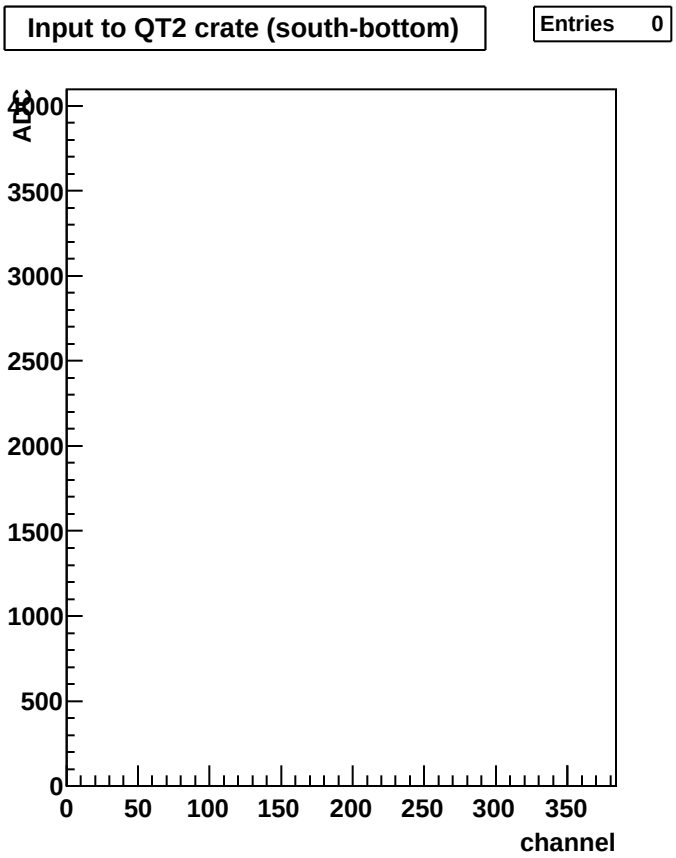

VPD-TAC-E
Entries 18133
Mean 1523
RMS 122.9

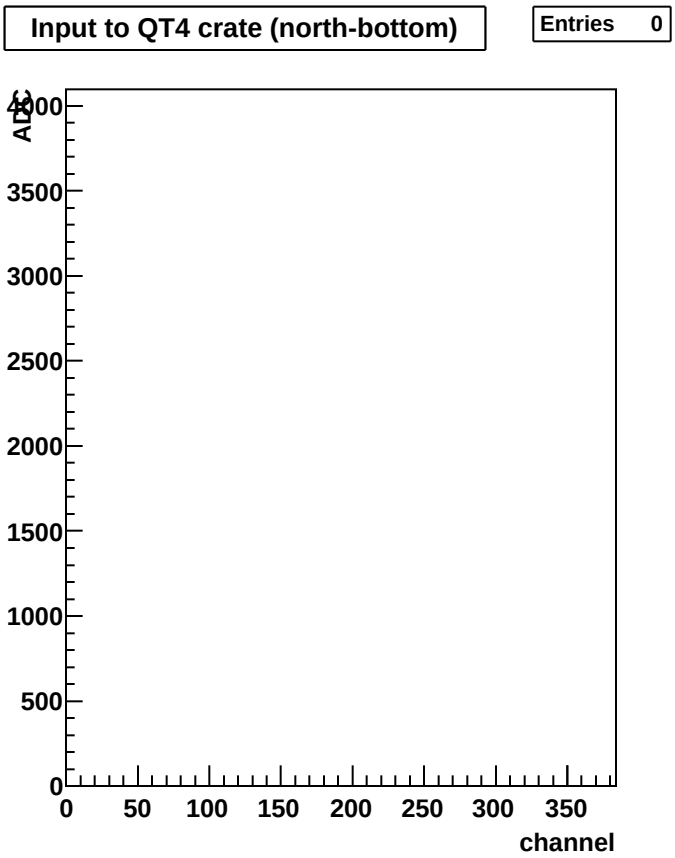

VPD-TAC-W
Entries 17360
Mean 1487
RMS 129.9

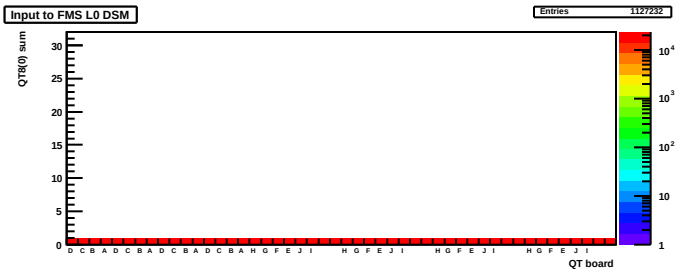

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 14468
Mean 4131
RMS 161.8

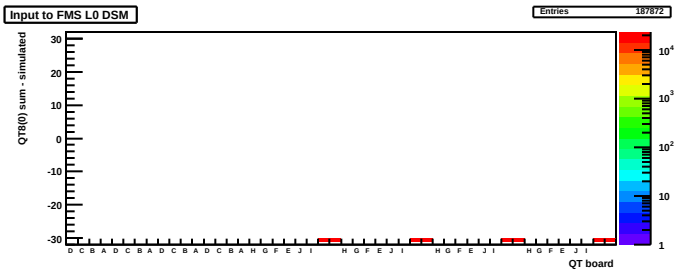

Input to QT1 crate (south-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

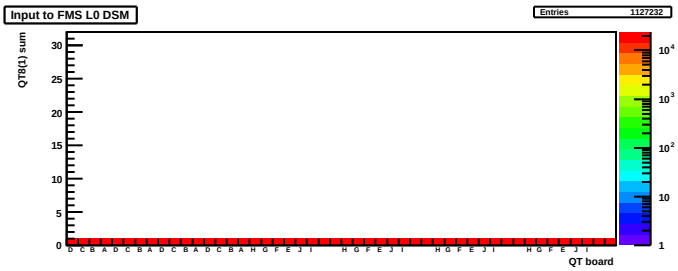

Input to QT3 crate (north-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

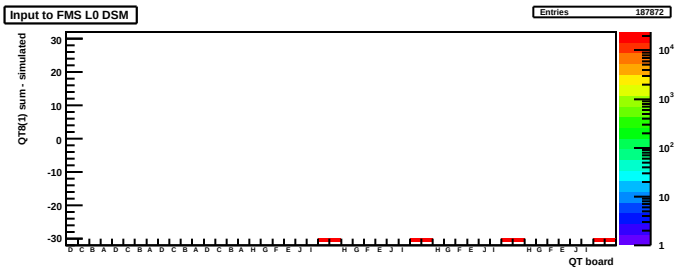

Input to QT2 crate (south-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

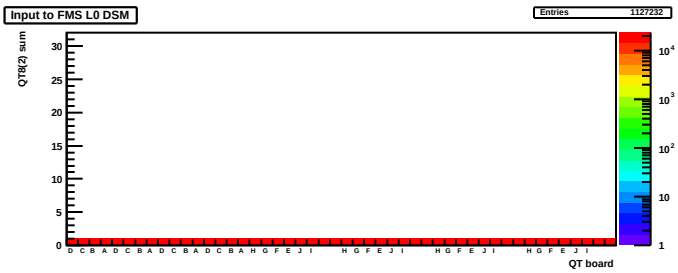

Input to QT4 crate (north-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

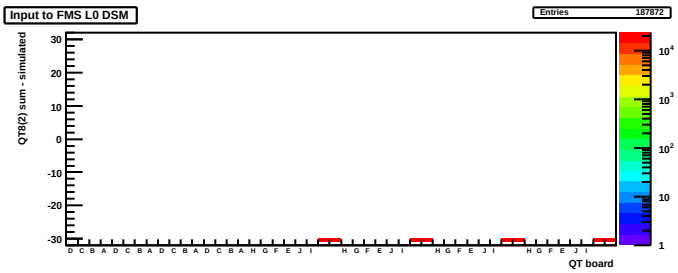

Input to FMS L0 DSM
Entries 1127232
QT8(0) sum
QT board

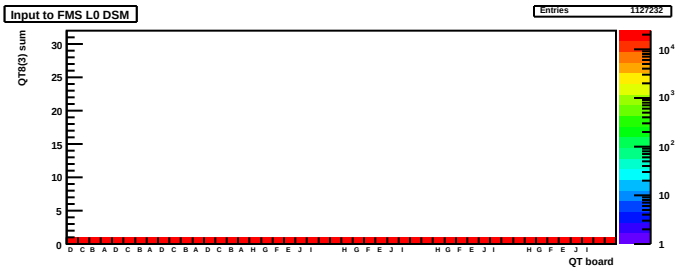

Input to FMS L0 DSM
Entries 187872
QT8(0) sum - simulated
QT board

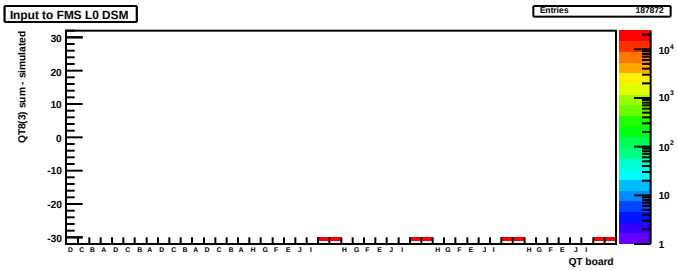

Input to FMS L0 DSM
Entries 1127232
QT8(1) sum
QT board

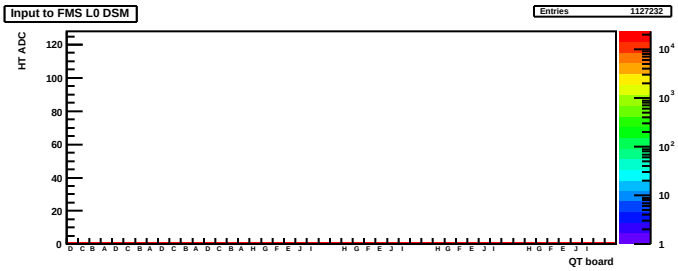

Input to FMS L0 DSM
Entries 187872
QT8(1) sum - simulated
QT board

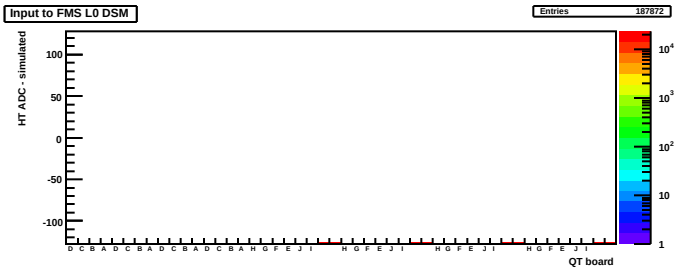

Input to FMS L0 DSM
Entries 1127232
QT8(2) sum
QT board

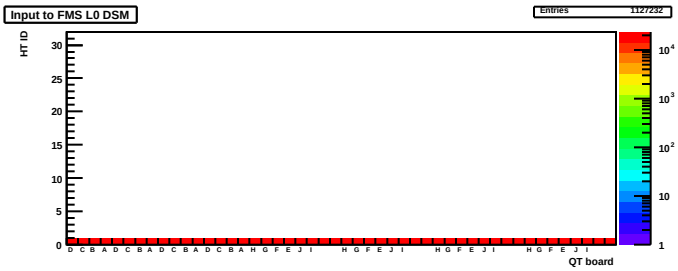

Input to FMS L0 DSM
Entries 187872
QT8(2) sum - simulated
QT board

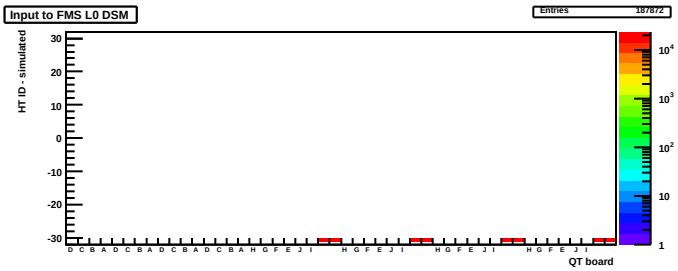

Input to FMS L0 DSM
Entries 1127232
QT8(3) sum
QT board

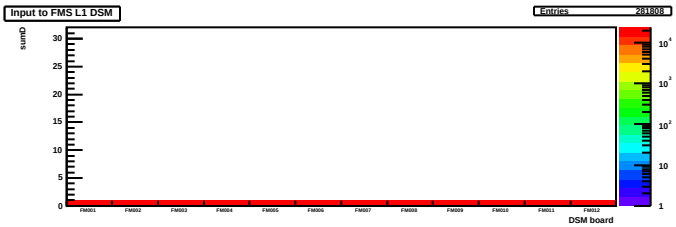

Input to FMS L0 DSM
Entries 187872
QT8(3) sum - simulated
QT board

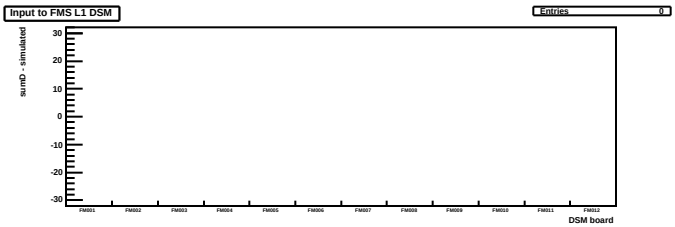

Input to FMS L0 DSM
Entries 1127232
HT ADC
QT board

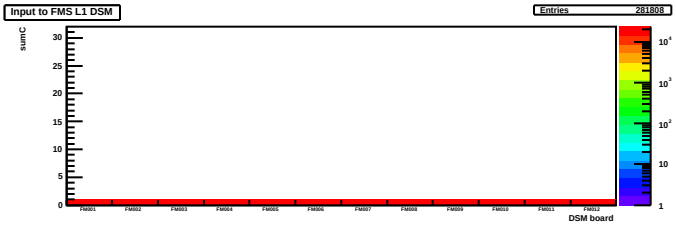

Input to FMS L0 DSM
Entries 187872
HT ADC - simulated
QT board

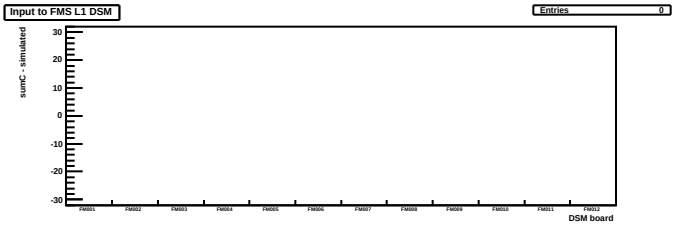

Input to FMS L0 DSM
Entries 1127232
HT ID
QT board

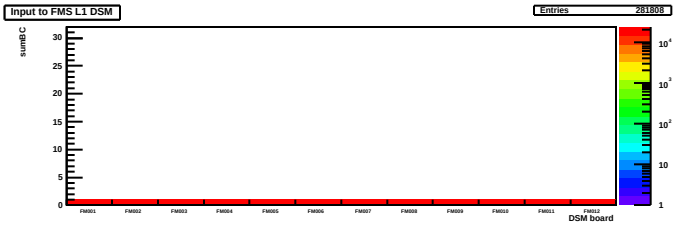

Input to FMS L0 DSM
Entries 187872
HT ID - simulated
QT board

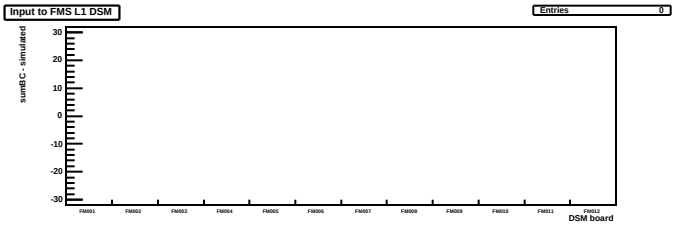

Input to FMS L1 DSM
Entries 281808
sumD
DSM board

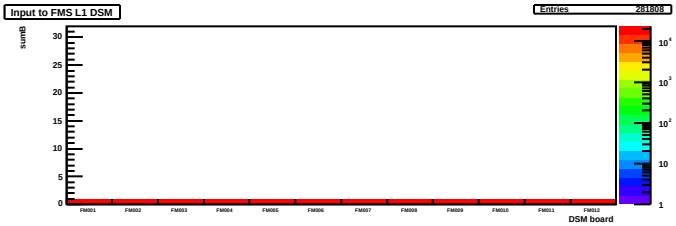

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

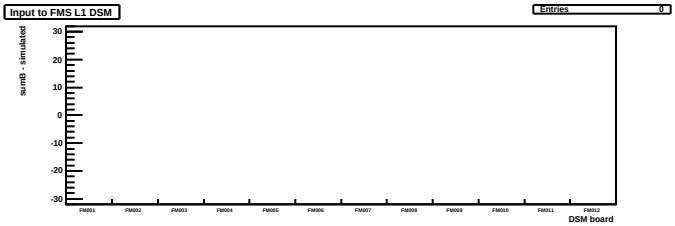

Input to FMS L1 DSM
Entries 281808
sumC
DSM board

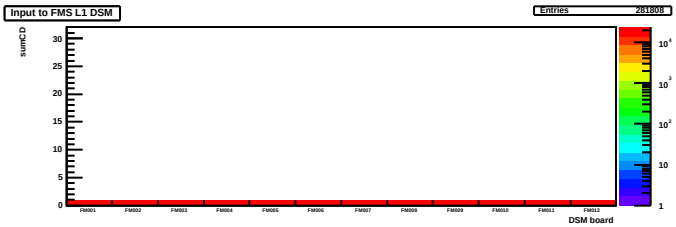

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

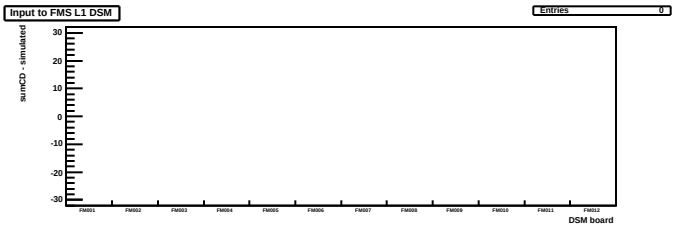

Input to FMS L1 DSM
Entries 281808
sumBC
DSM board

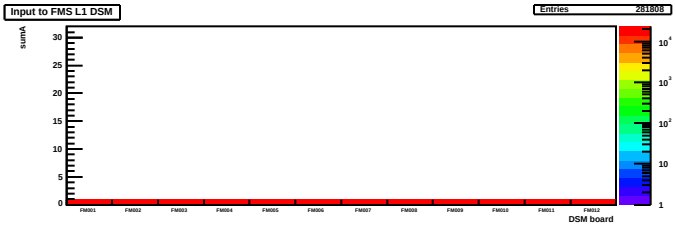

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

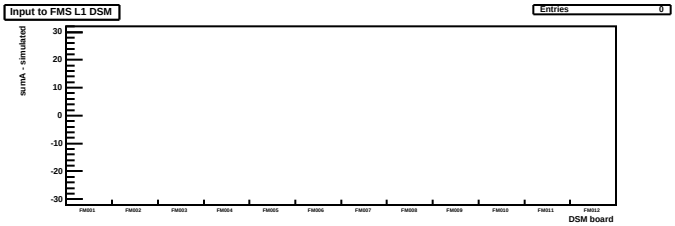

Input to FMS L1 DSM
Entries 281808
sumB
DSM board

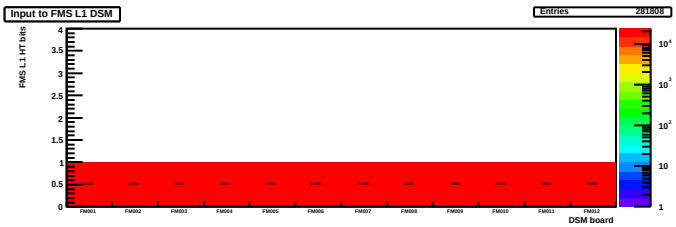

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

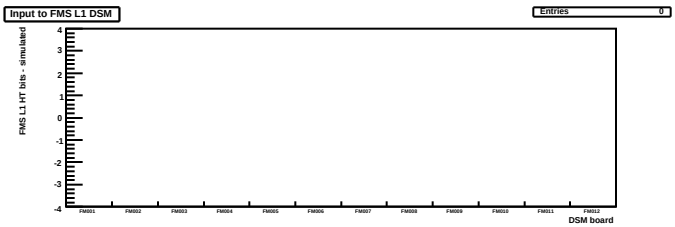

Input to FMS L1 DSM
Entries 281808
sumCD
DSM board

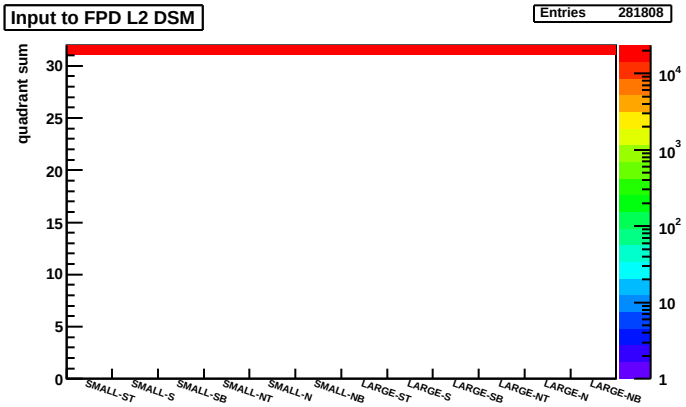

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

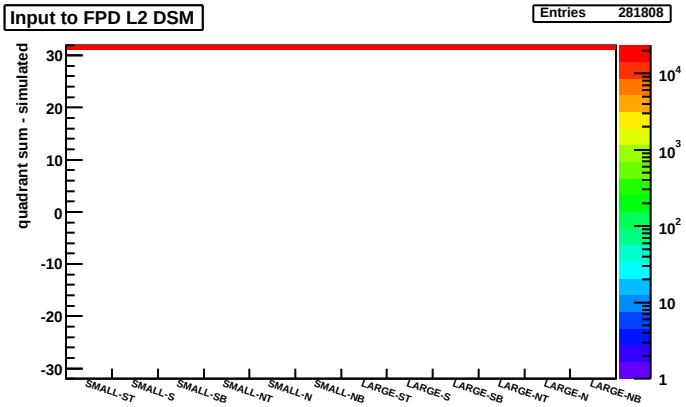

Input to FMS L1 DSM
Entries 281808
sumA
DSM board

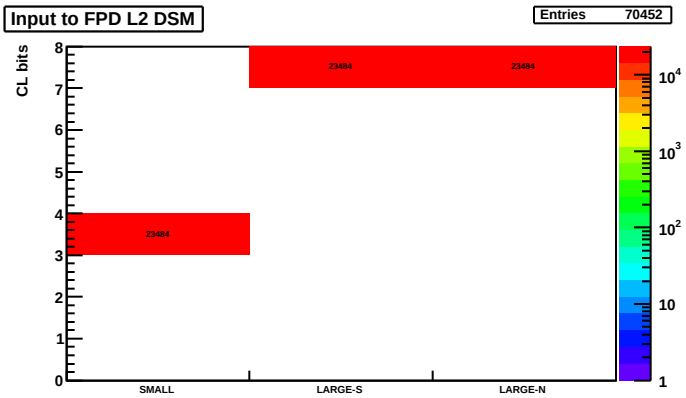

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

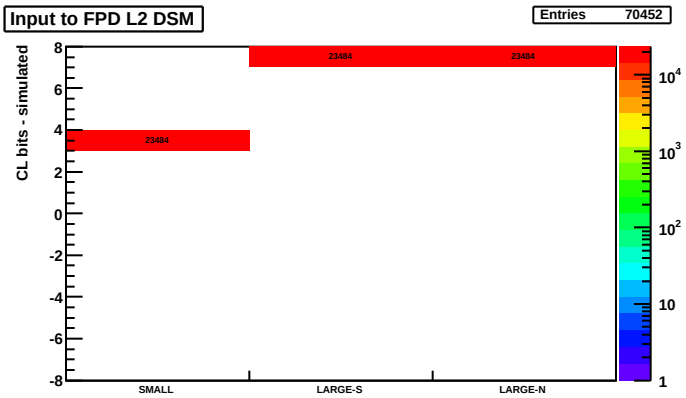

Input to FMS L1 DSM
Entries 281808
FMS L1 HT bits
DSM board

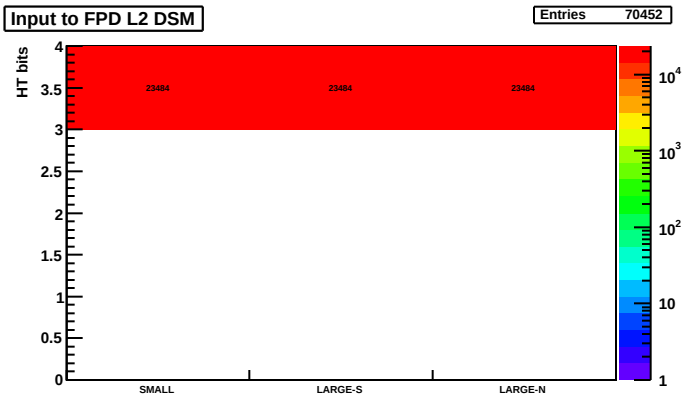

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

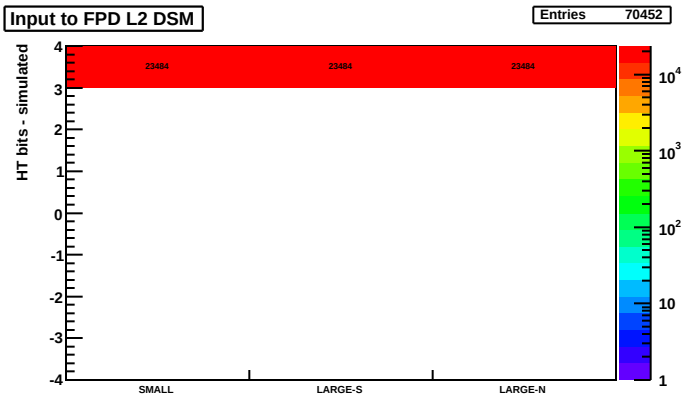

Input to FPD L2 DSM
Entries 281808
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

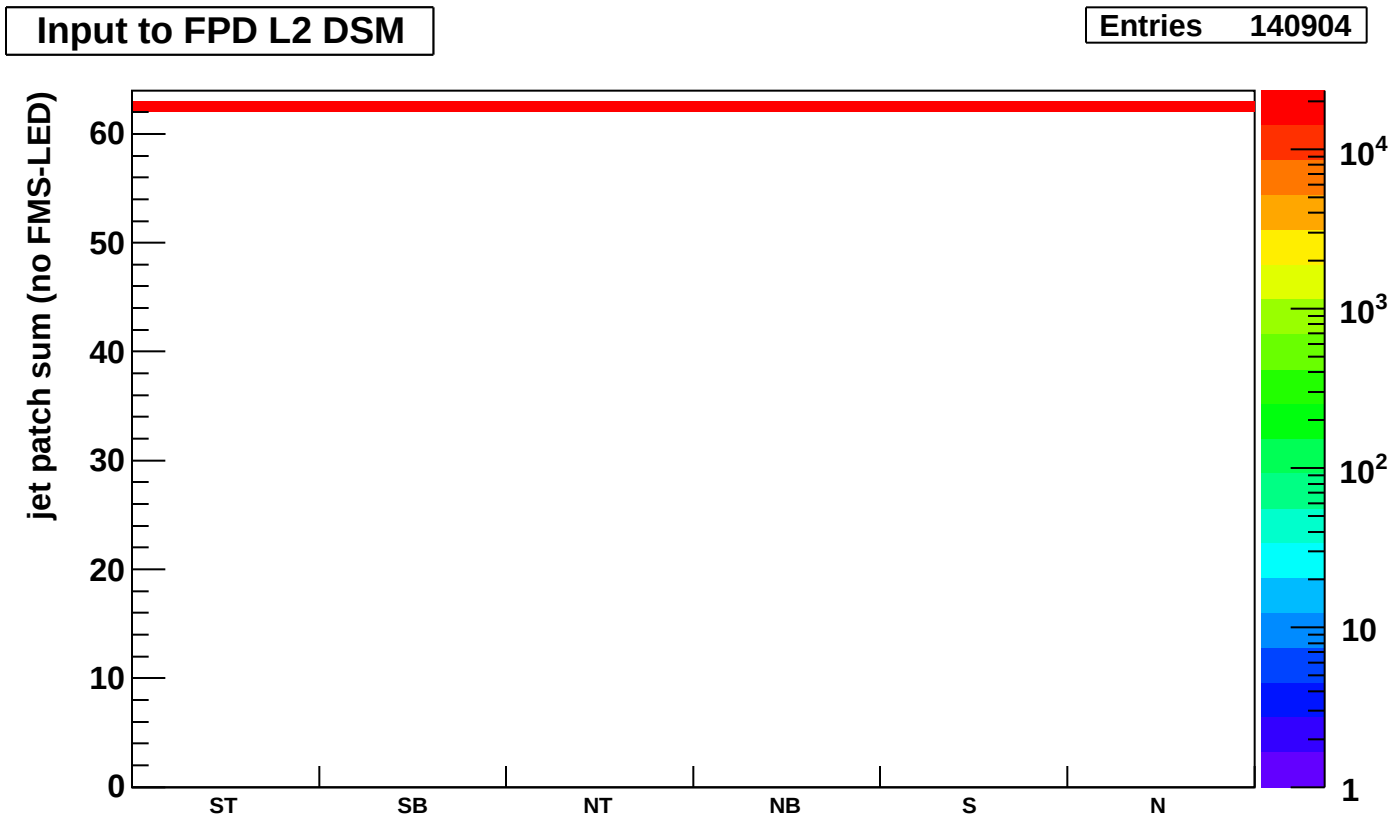

Input to FPD L2 DSM
Entries 281808
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

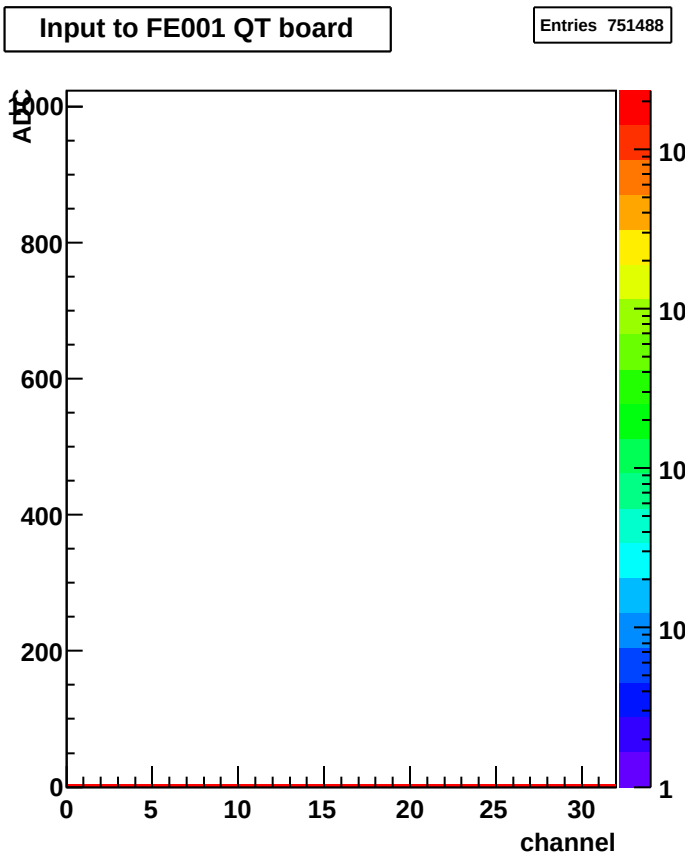

Input to FPD L2 DSM
Entries 70452
CL bits
23484
23484
23484
SMALL
LARGE-S
LARGE-N

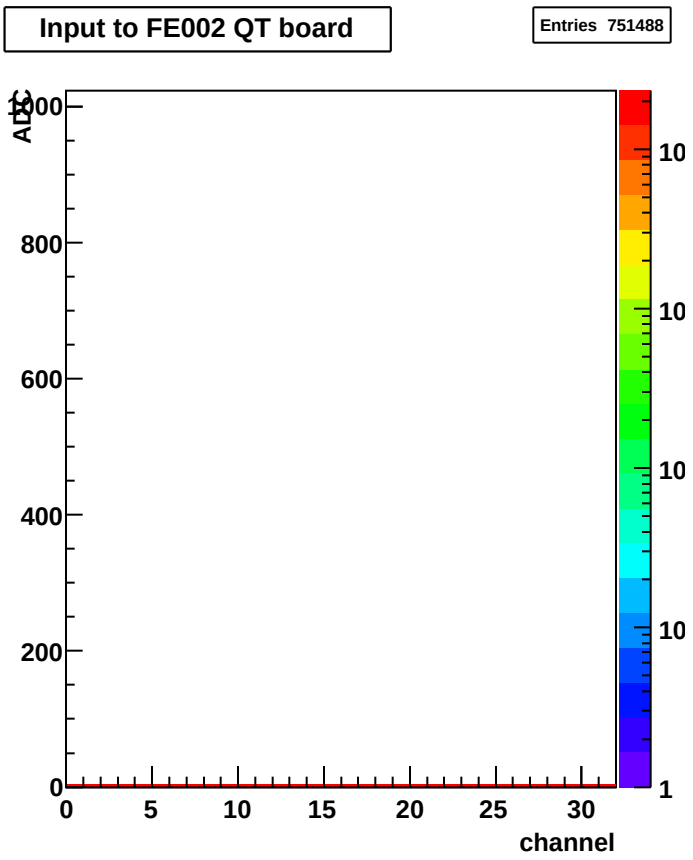

Input to FPD L2 DSM
Entries 70452
CL bits - simulated
23484
23484
23484
SMALL
LARGE-S
LARGE-N

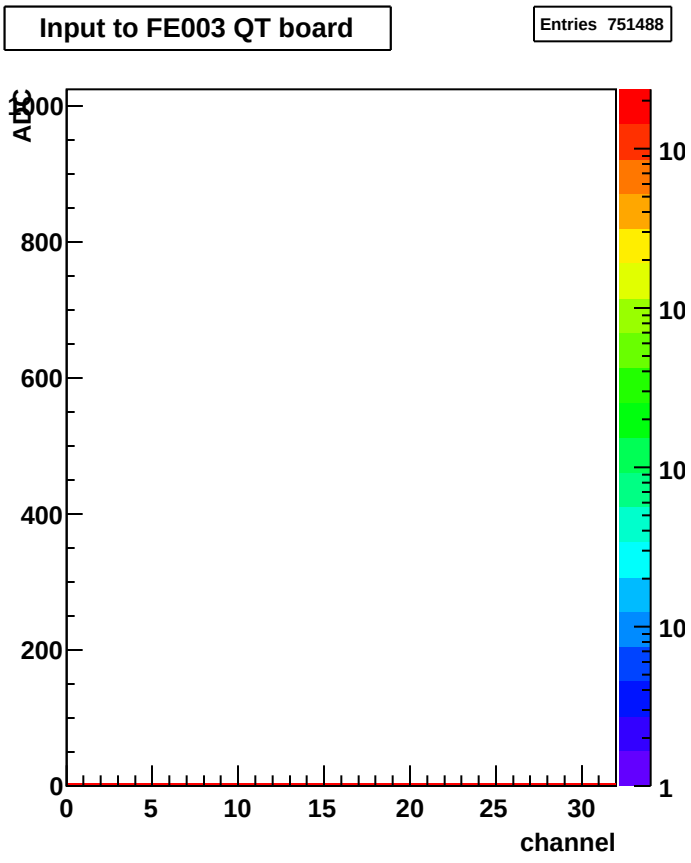

Input to FPD L2 DSM
Entries 70452
HT bits
23484
23484
23484
SMALL
LARGE-S
LARGE-N

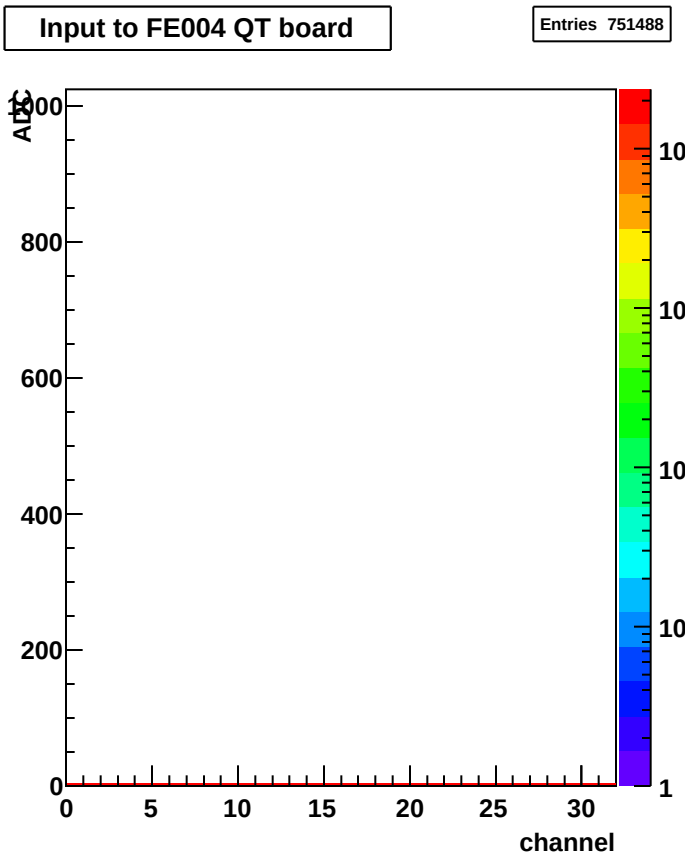

Input to FPD L2 DSM
Entries 70452
HT bits - simulated
23484
23484
23484
SMALL
LARGE-S
LARGE-N

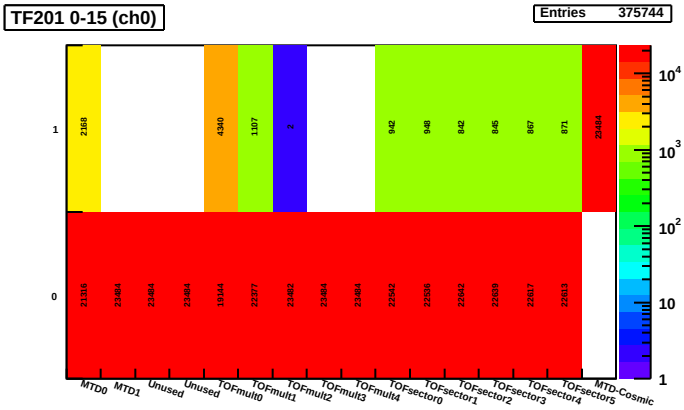

Input to FPD L2 DSM
Entries 140904
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

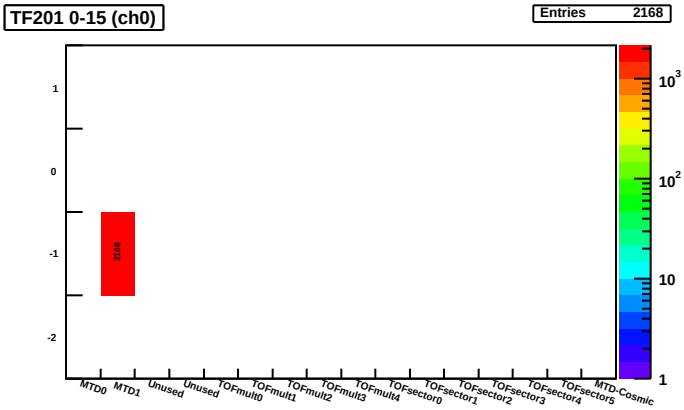

Input to FE001 QT board
Entries 751488
ADC
channel

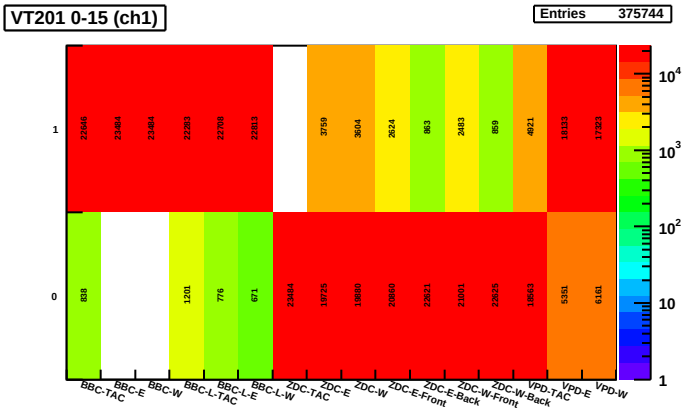

Input to FE002 QT board
Entries 751488
ADC
channel

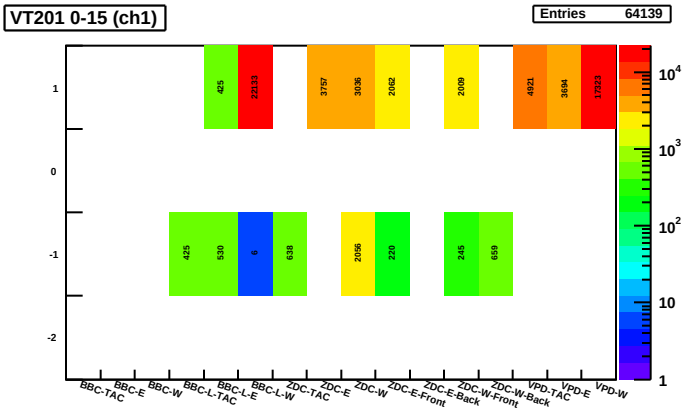

Input to FE003 QT board
Entries 751488
ADC
channel

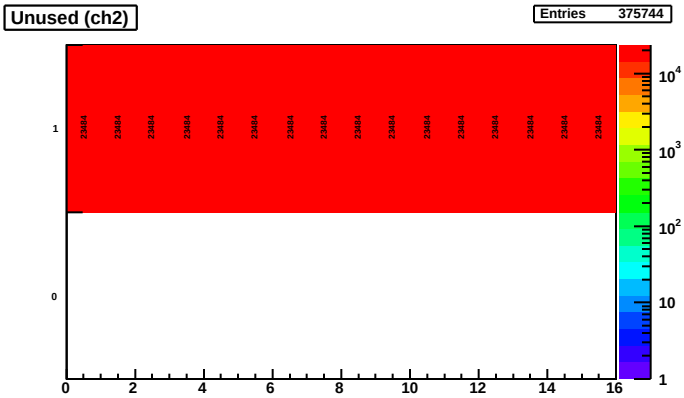

Input to FE004 QT board
Entries 751488
ADC
channel

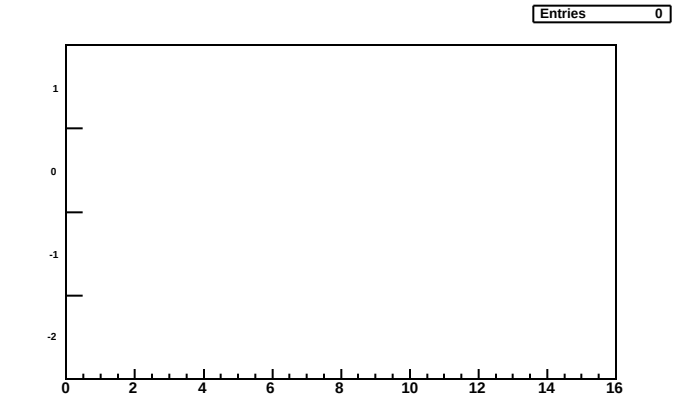

TF201 0-15 (ch0)
Entries 375744
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

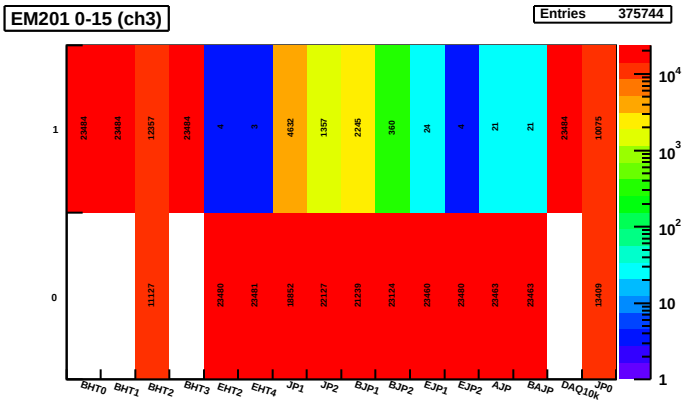

TF201 0-15 (ch0)
Entries 2168
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 375744
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 64139
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


Unused (ch2)
Entries 375744


Entries 0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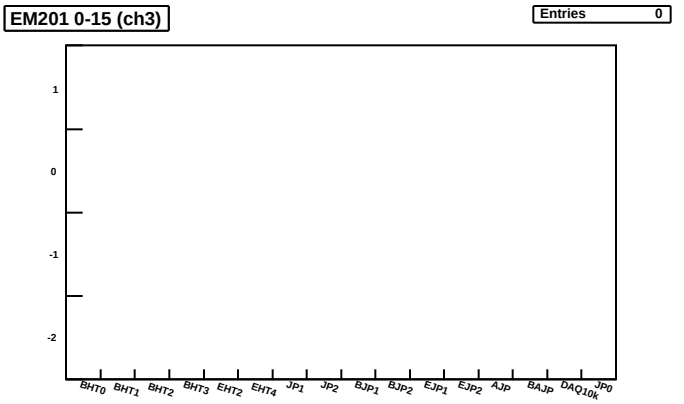
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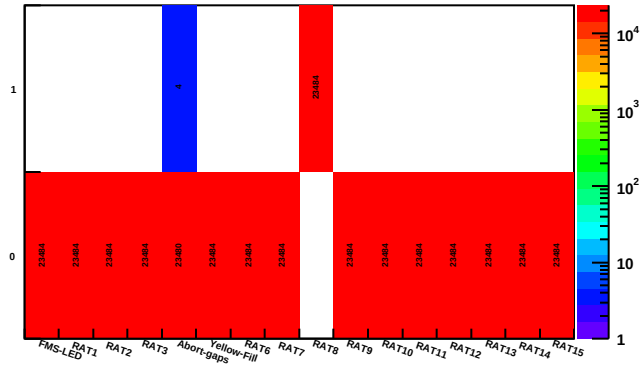
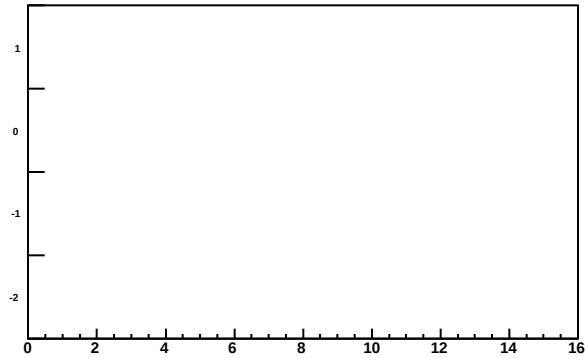
RAT board (ch4)





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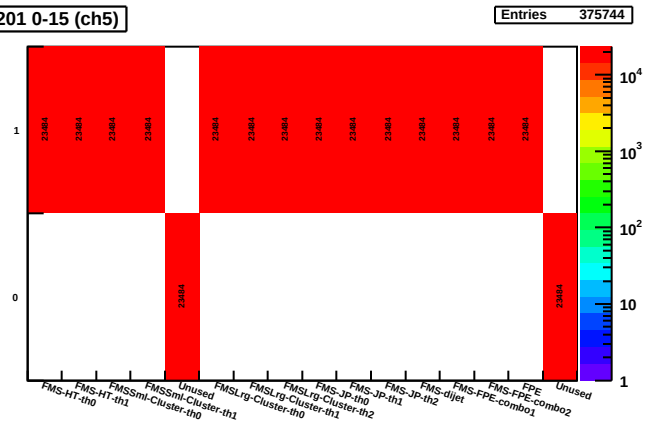

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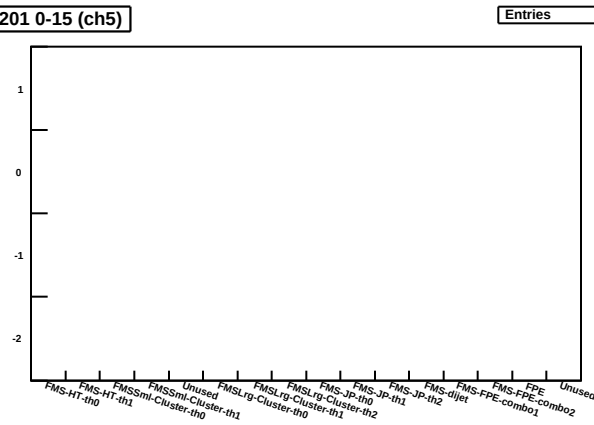

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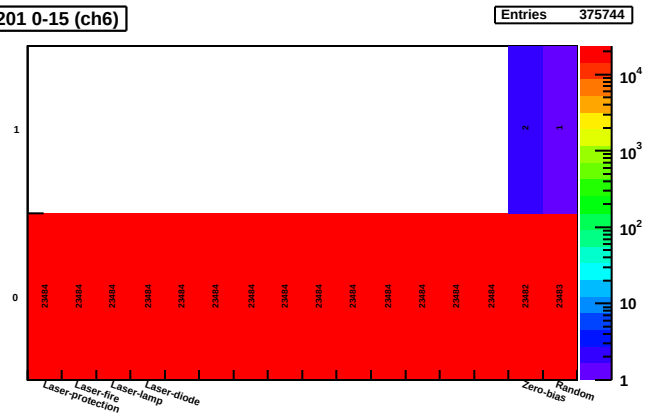

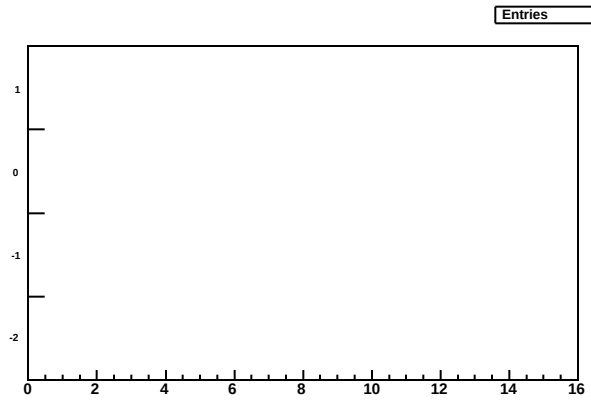
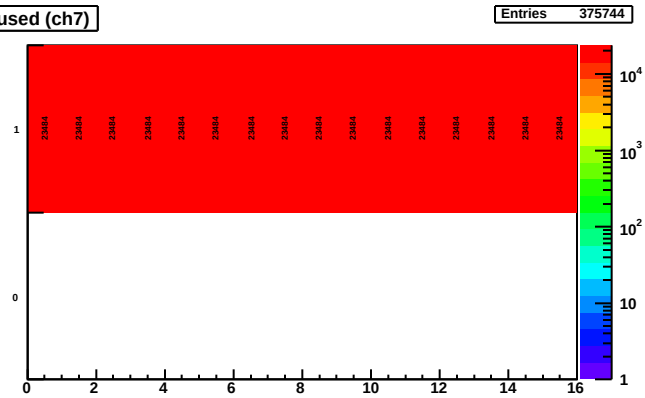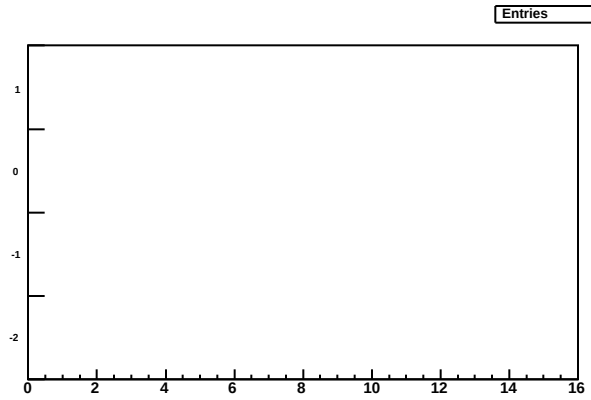
Unused (ch7)