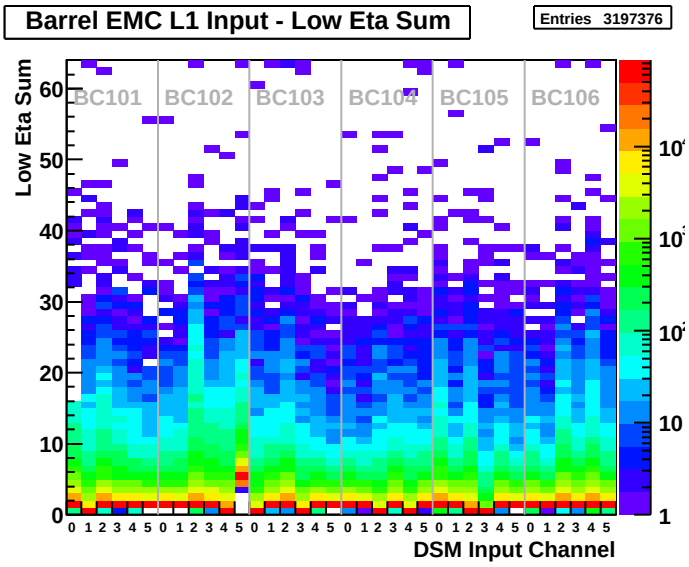
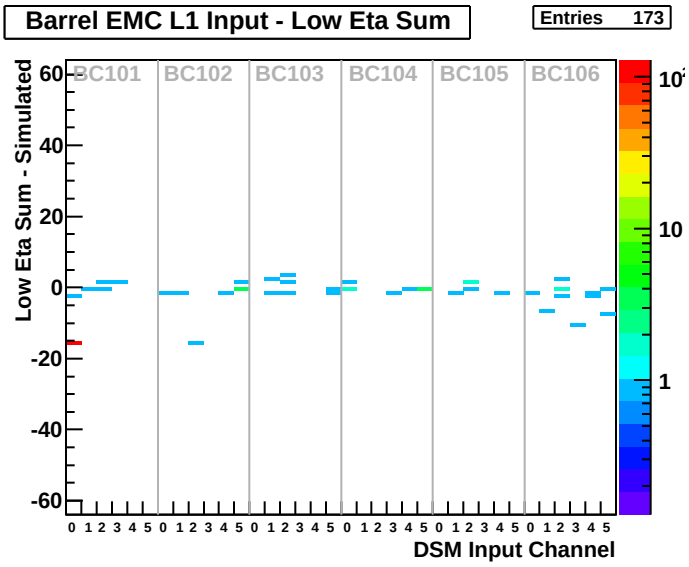
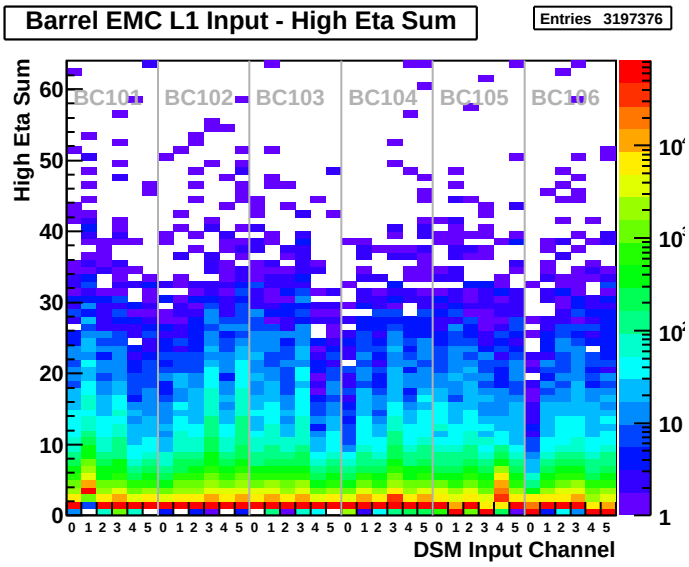
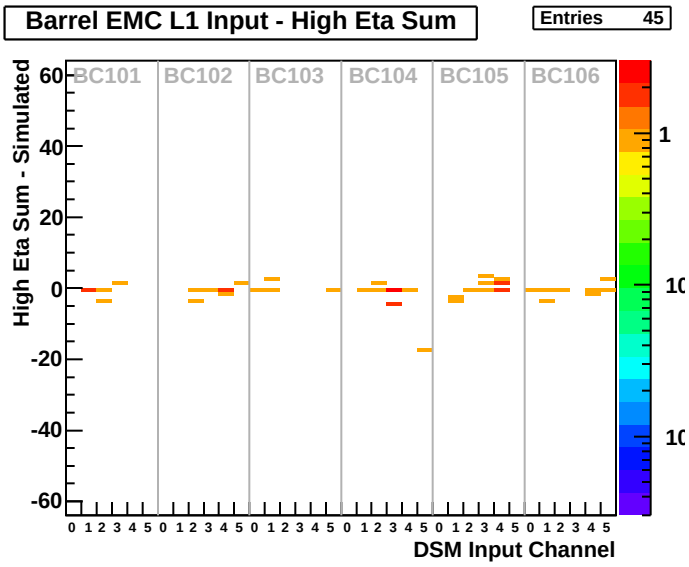
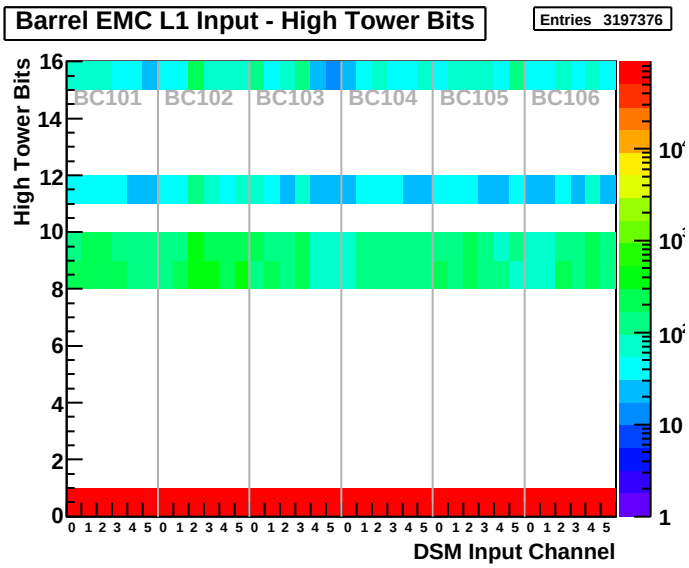
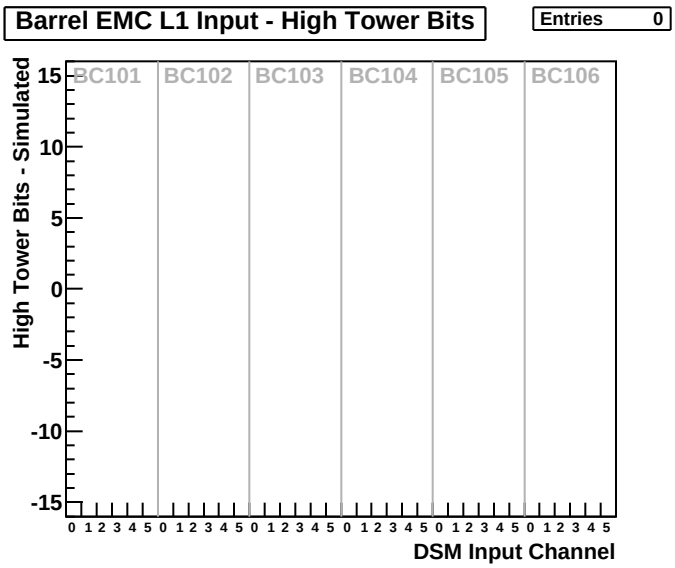

Barrel EMC L1 Input - Low Eta Sum
Entries 3197376
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

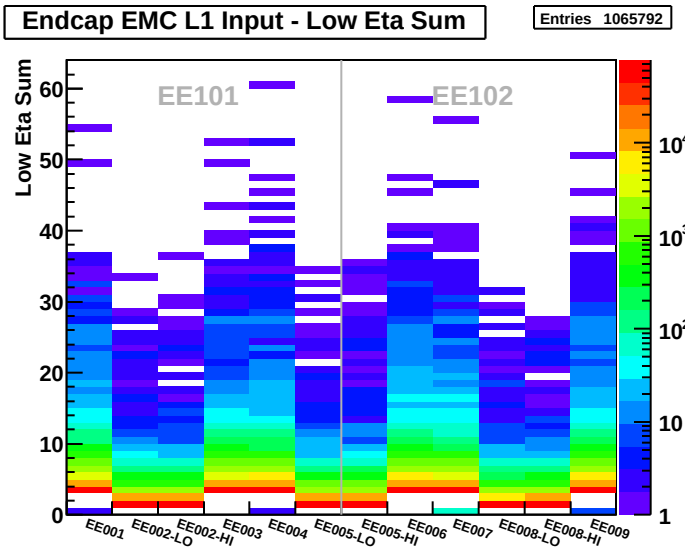

Barrel EMC L1 Input - Low Eta Sum
Entries 173
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

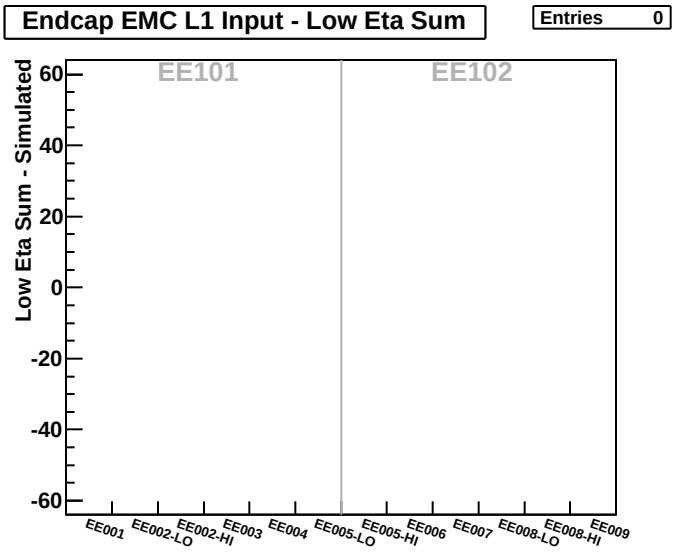

Barrel EMC L1 Input - High Eta Sum
Entries 3197376
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

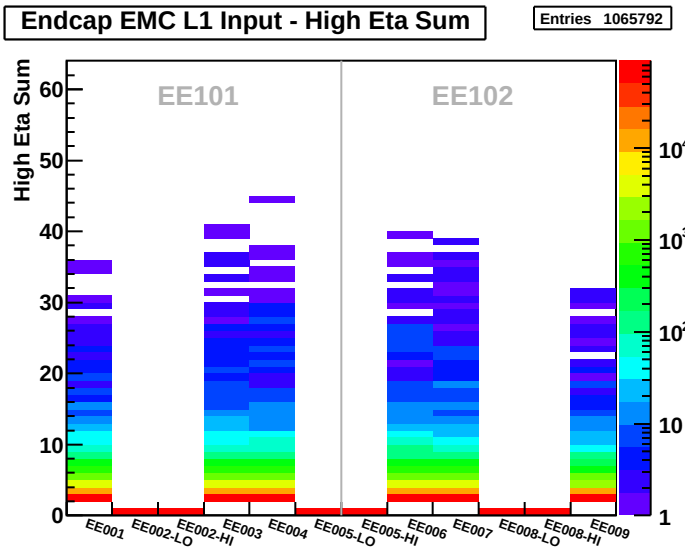

Barrel EMC L1 Input - High Eta Sum
Entries 45
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

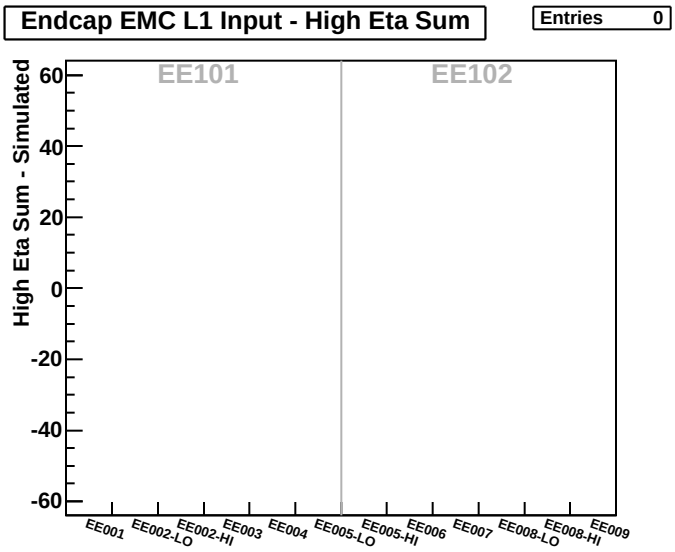

Barrel EMC L1 Input - High Tower Bits
Entries 3197376
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

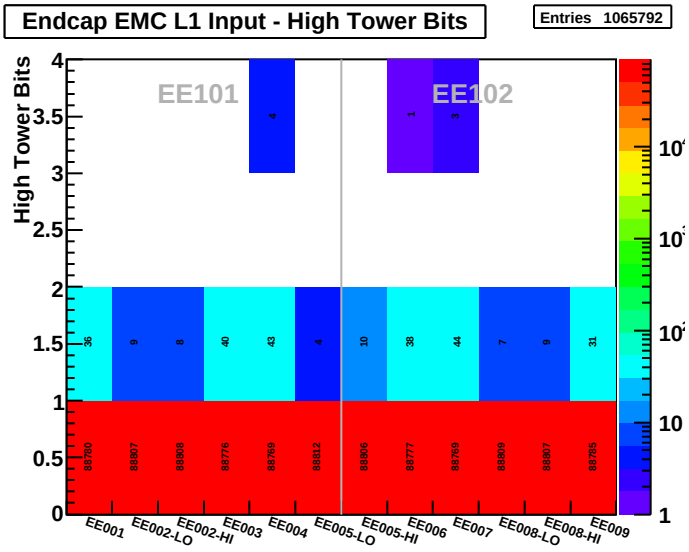

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

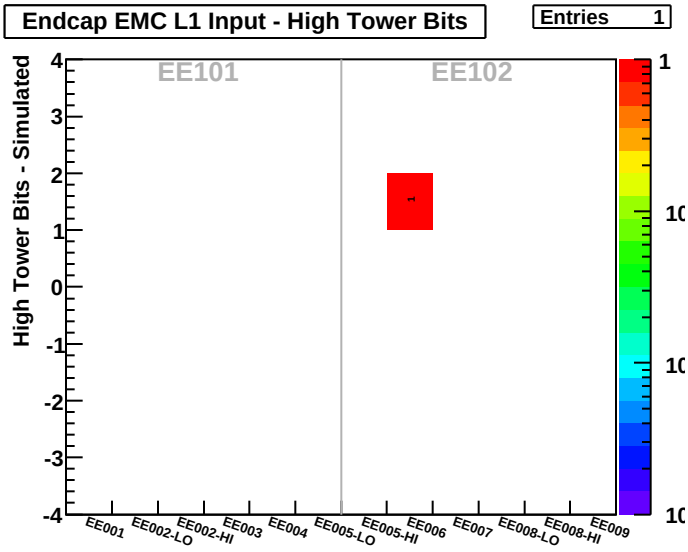

Endcap EMC L1 Input - Low Eta Sum
Entries 1065792
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

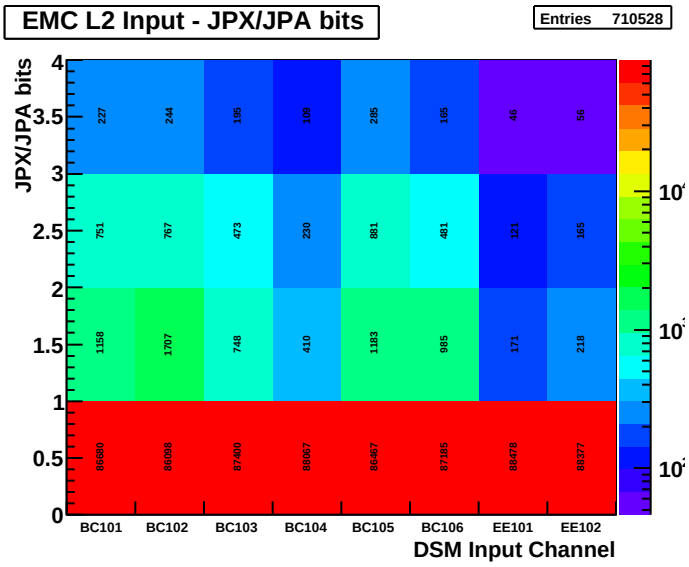

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

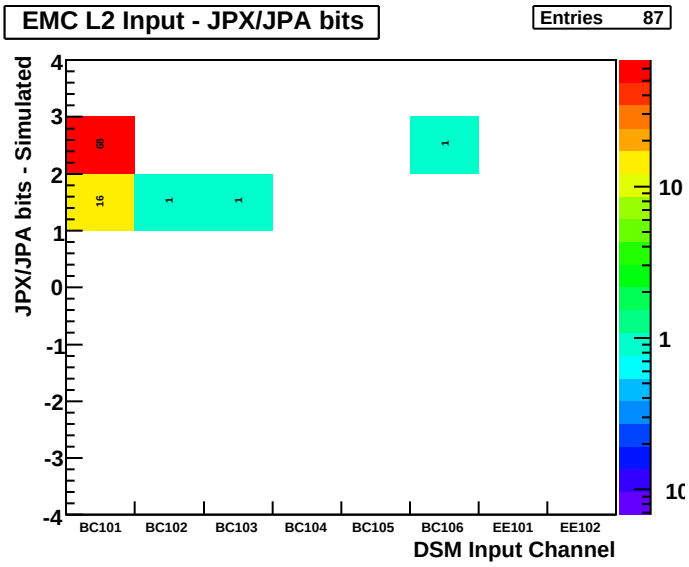

Endcap EMC L1 Input - High Eta Sum
Entries 1065792
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

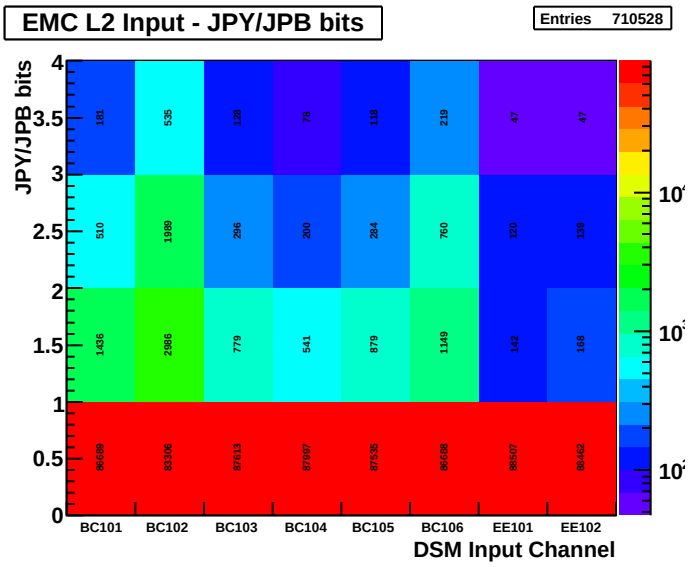

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

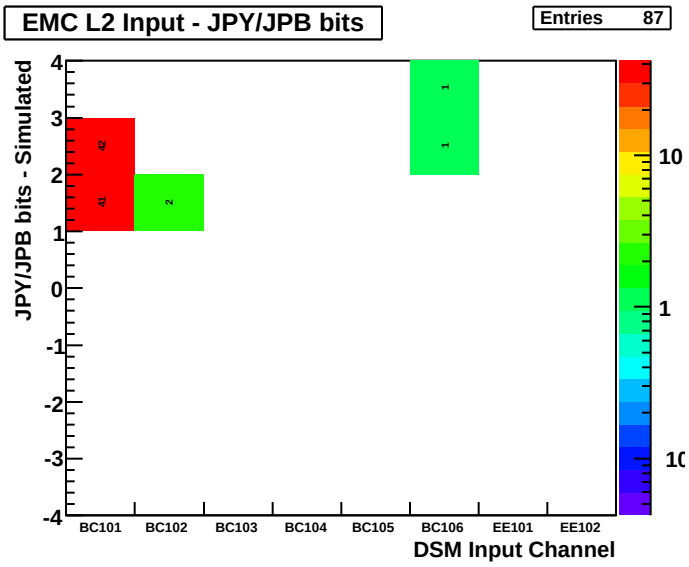

Endcap EMC L1 Input - High Tower Bits
Entries 1065792
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

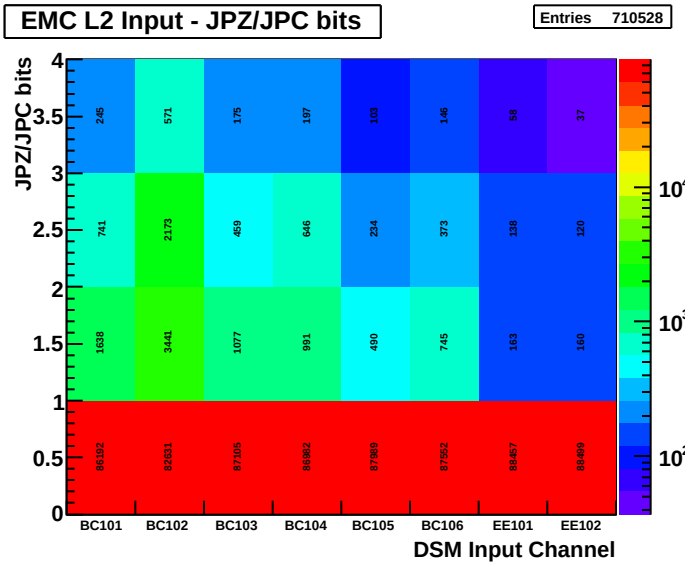

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

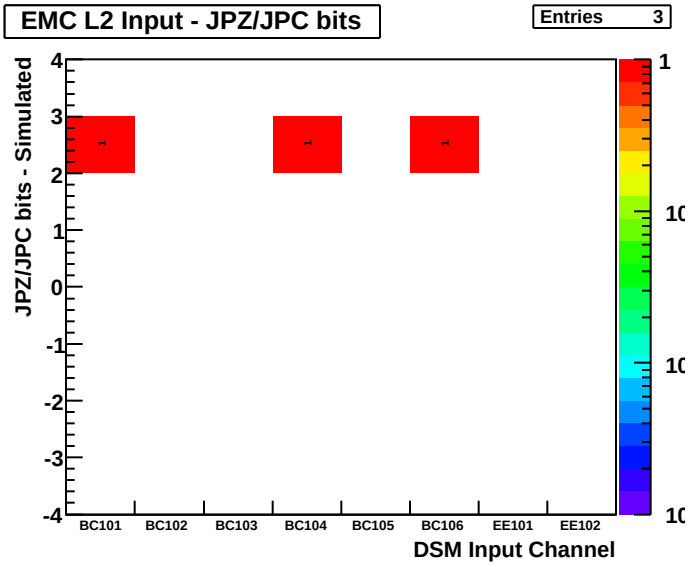

EMC L2 Input - JPX/JPA bits
Entries 710528
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

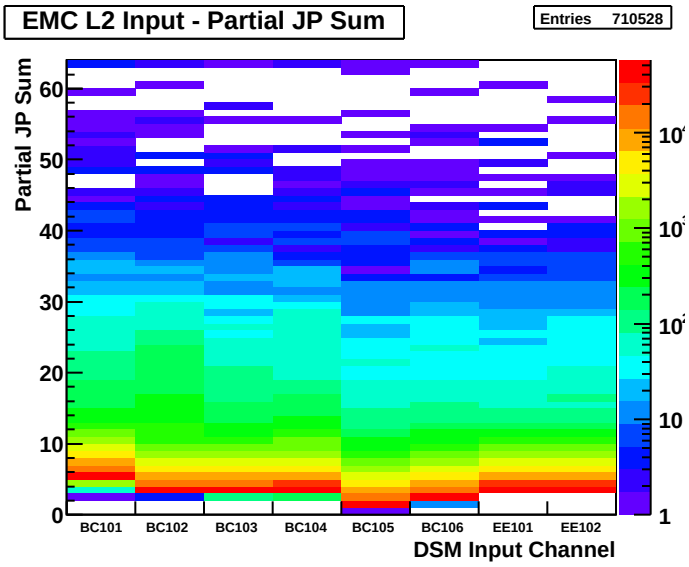

EMC L2 Input - JPX/JPA bits
Entries 87
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

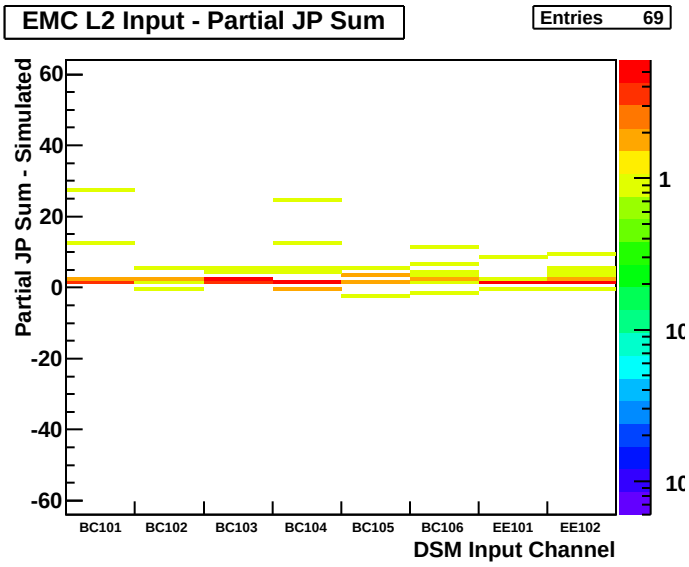

EMC L2 Input - JPY/JPB bits
Entries 710528
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

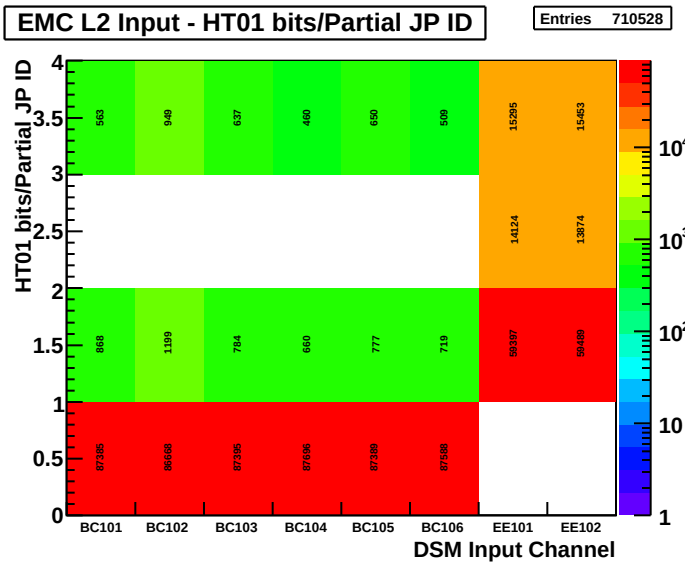

EMC L2 Input - JPY/JPB bits
Entries 87
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

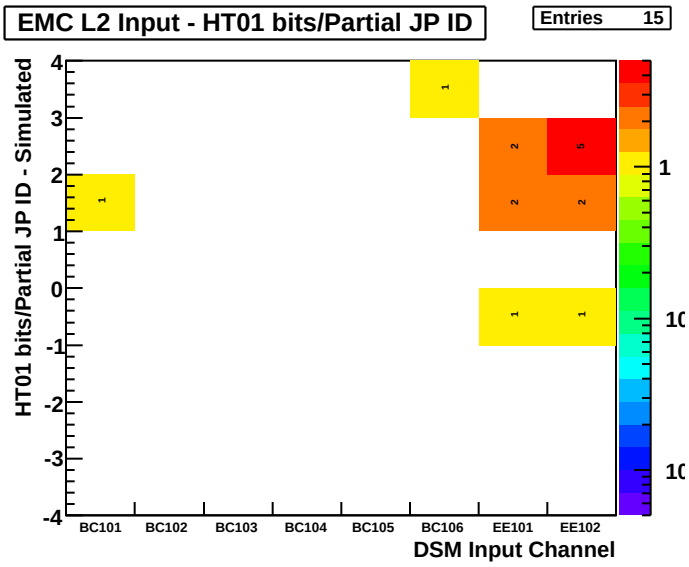

EMC L2 Input - JPZ/JPC bits
Entries 710528
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

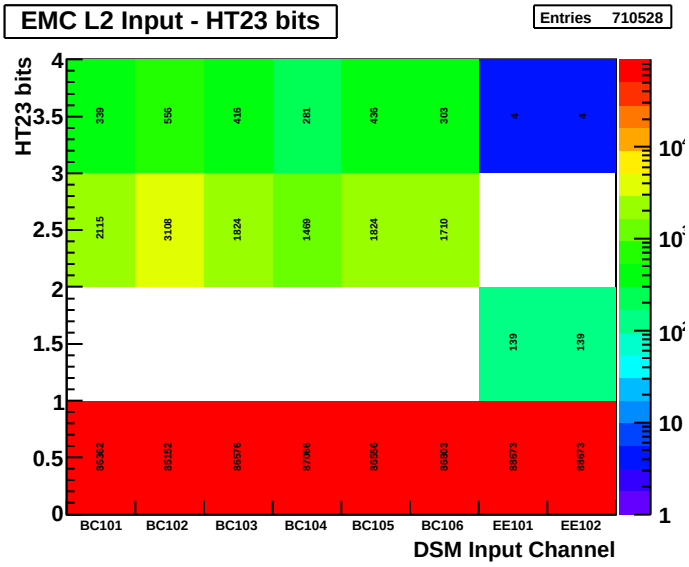

EMC L2 Input - JPZ/JPC bits
Entries 3
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

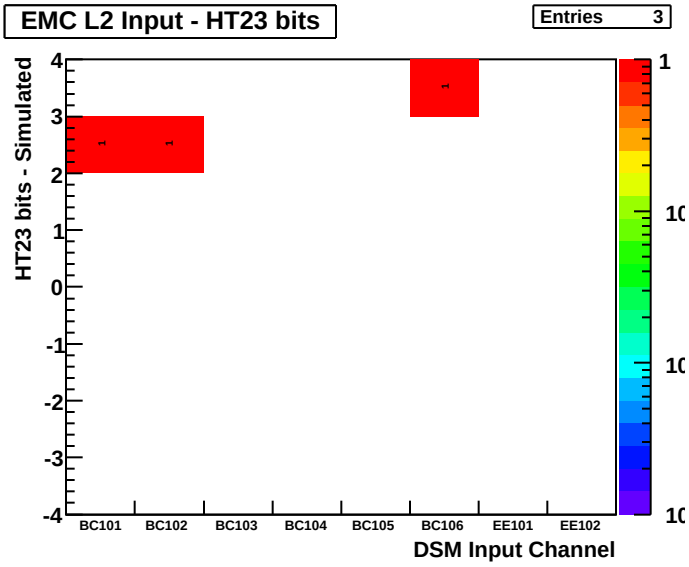

EMC L2 Input - Partial JP Sum
Entries 710528
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

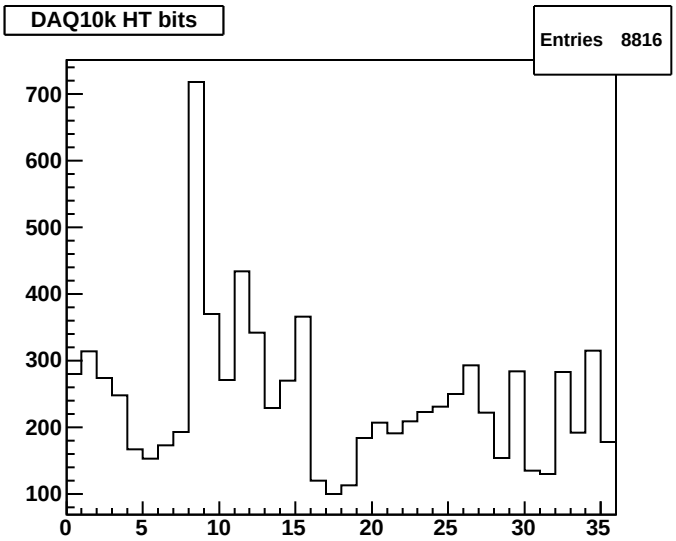

EMC L2 Input - Partial JP Sum
Entries 69
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

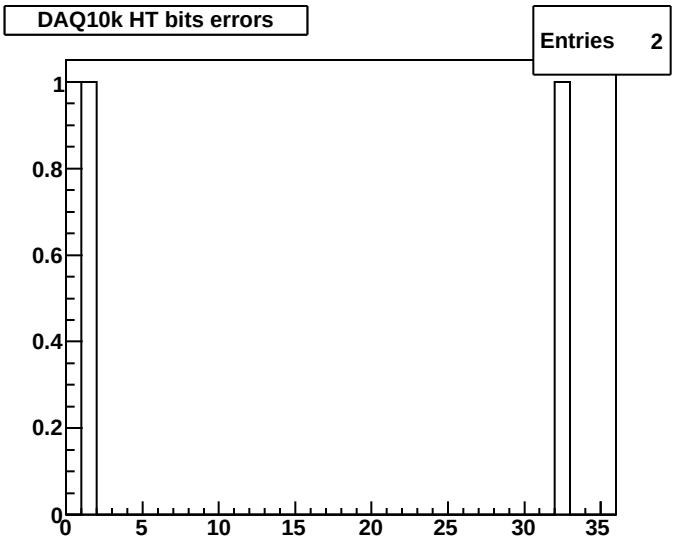

EMC L2 Input - HT01 bits/Partial JP ID
Entries 710528
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

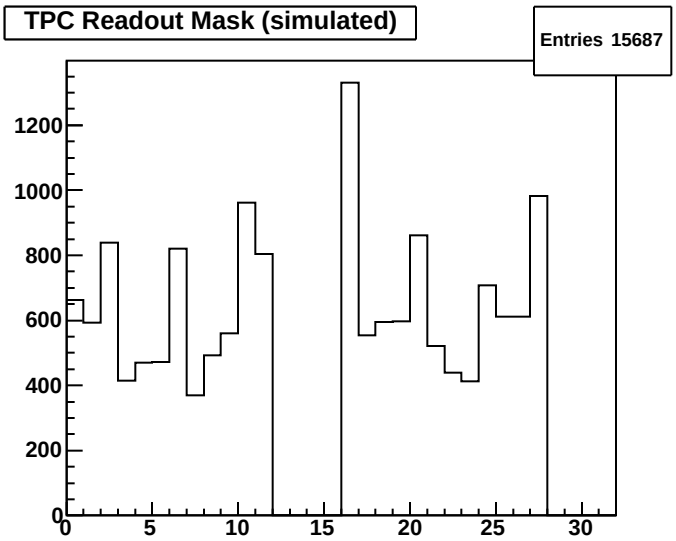

EMC L2 Input - HT01 bits/Partial JP ID
Entries 15
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

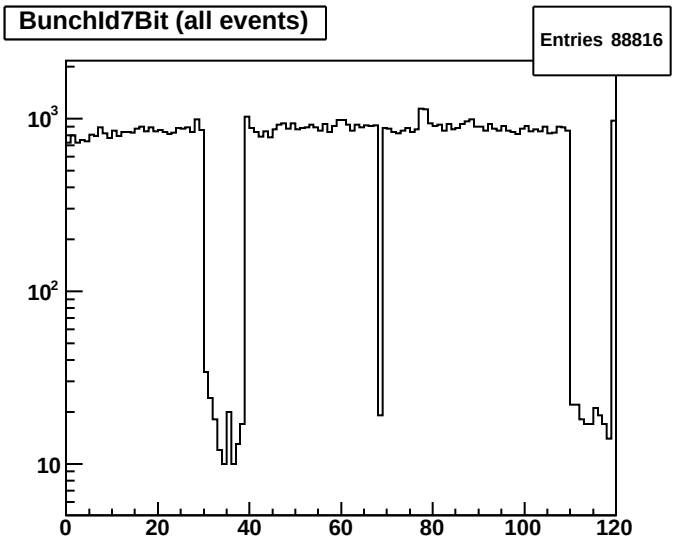

EMC L2 Input - HT23 bits
Entries 710528
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

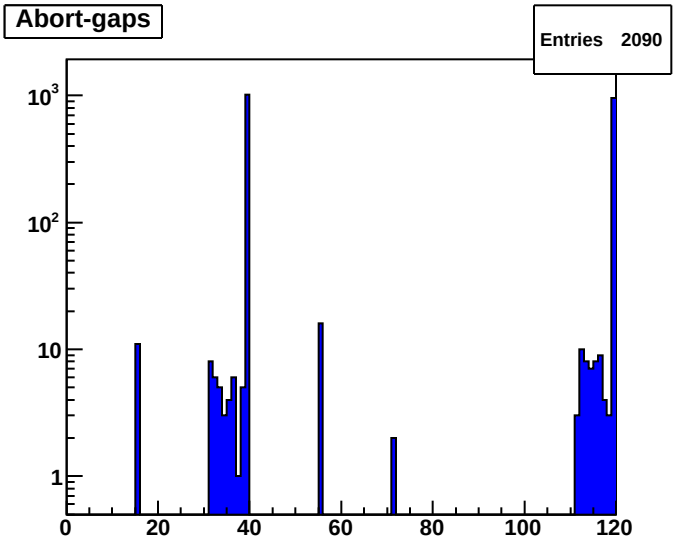

EMC L2 Input - HT23 bits
Entries 3
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

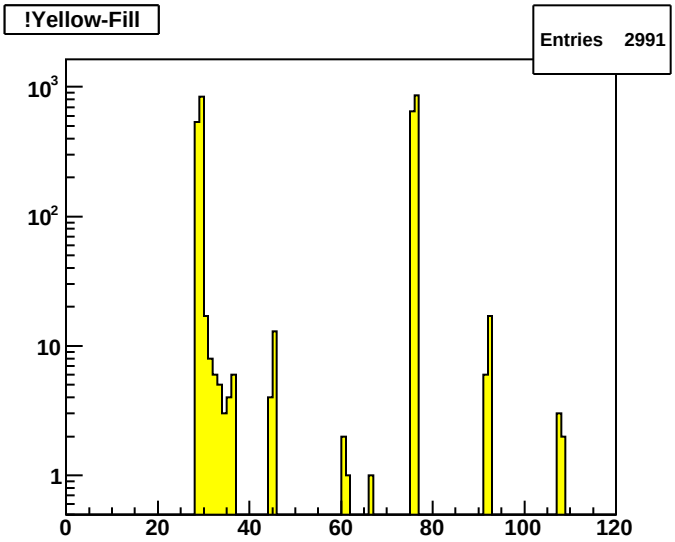

DAQ10k HT bits
Entries 8816

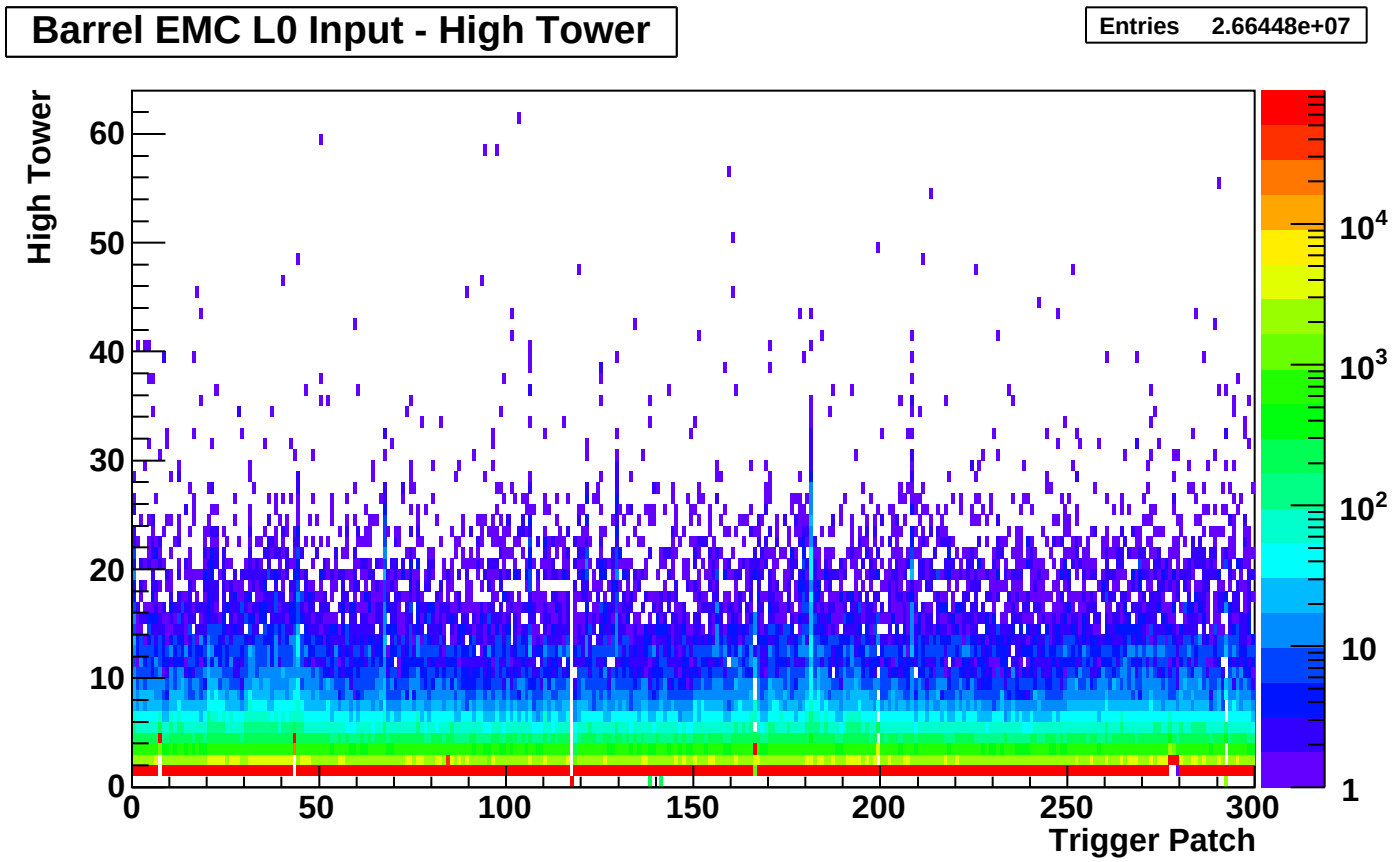

DAQ10k HT bits errors
Entries 2

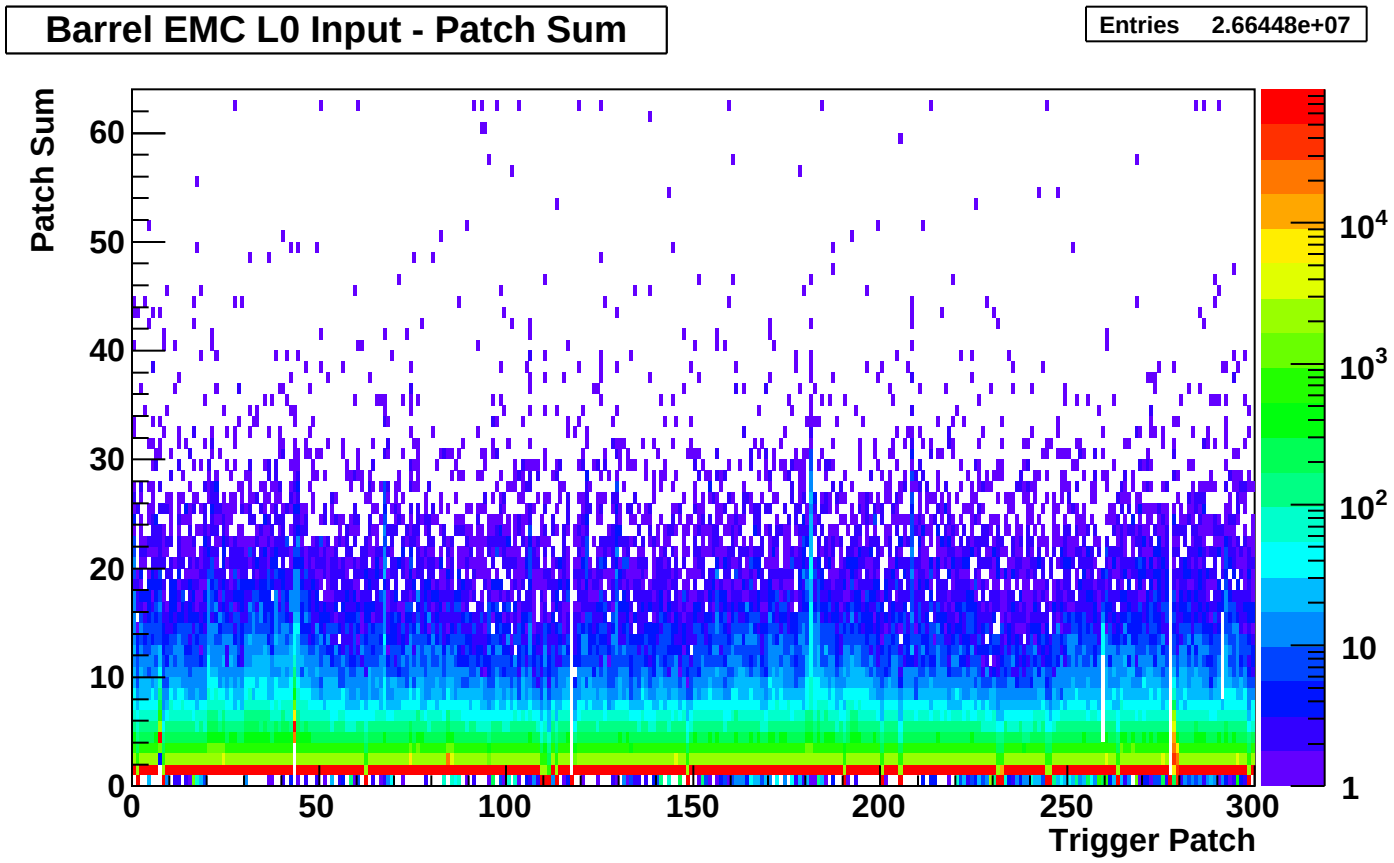

TPC Readout Mask (simulated)
Entries 15687

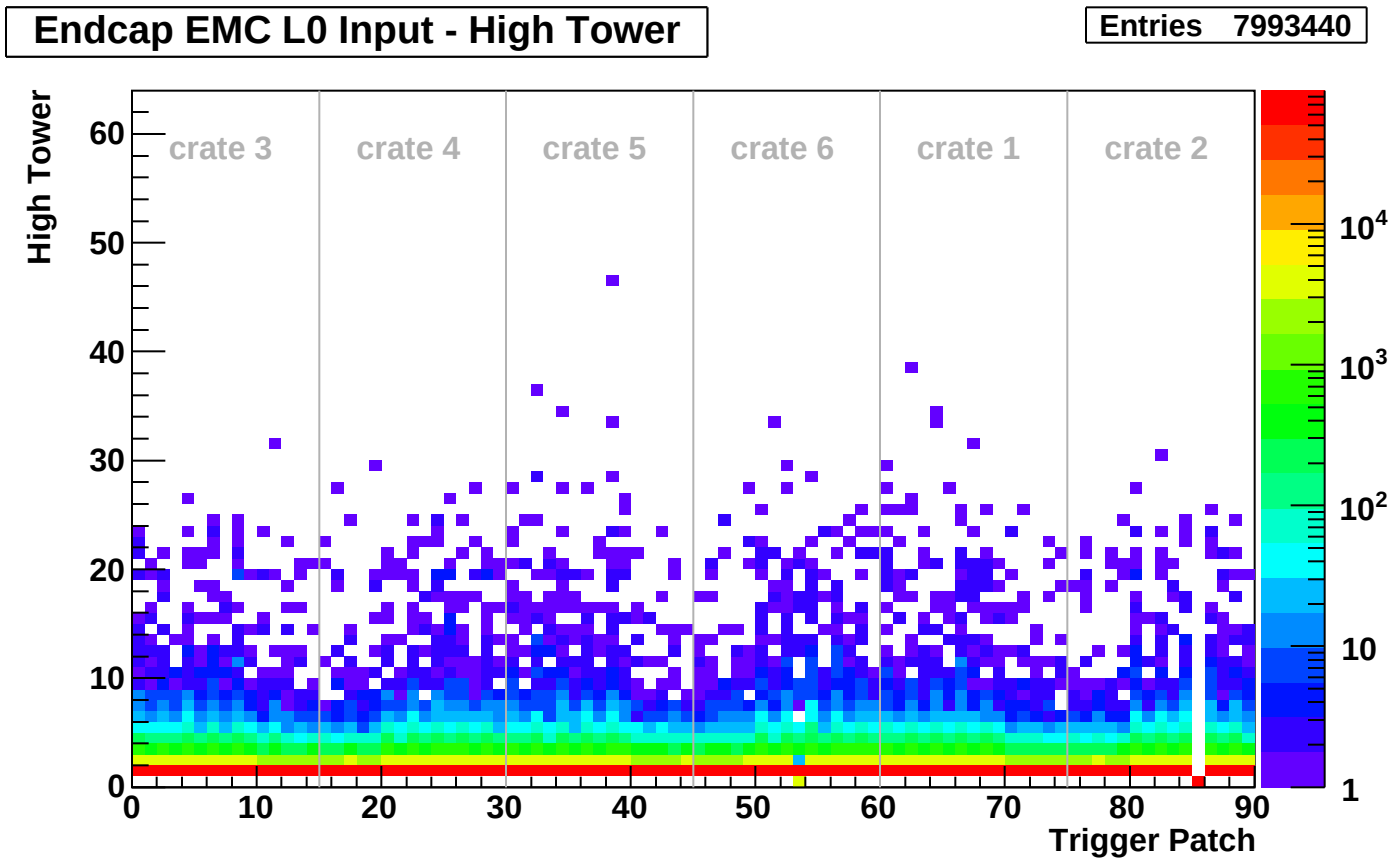

BunchId7Bit (all events)
Entries 88816

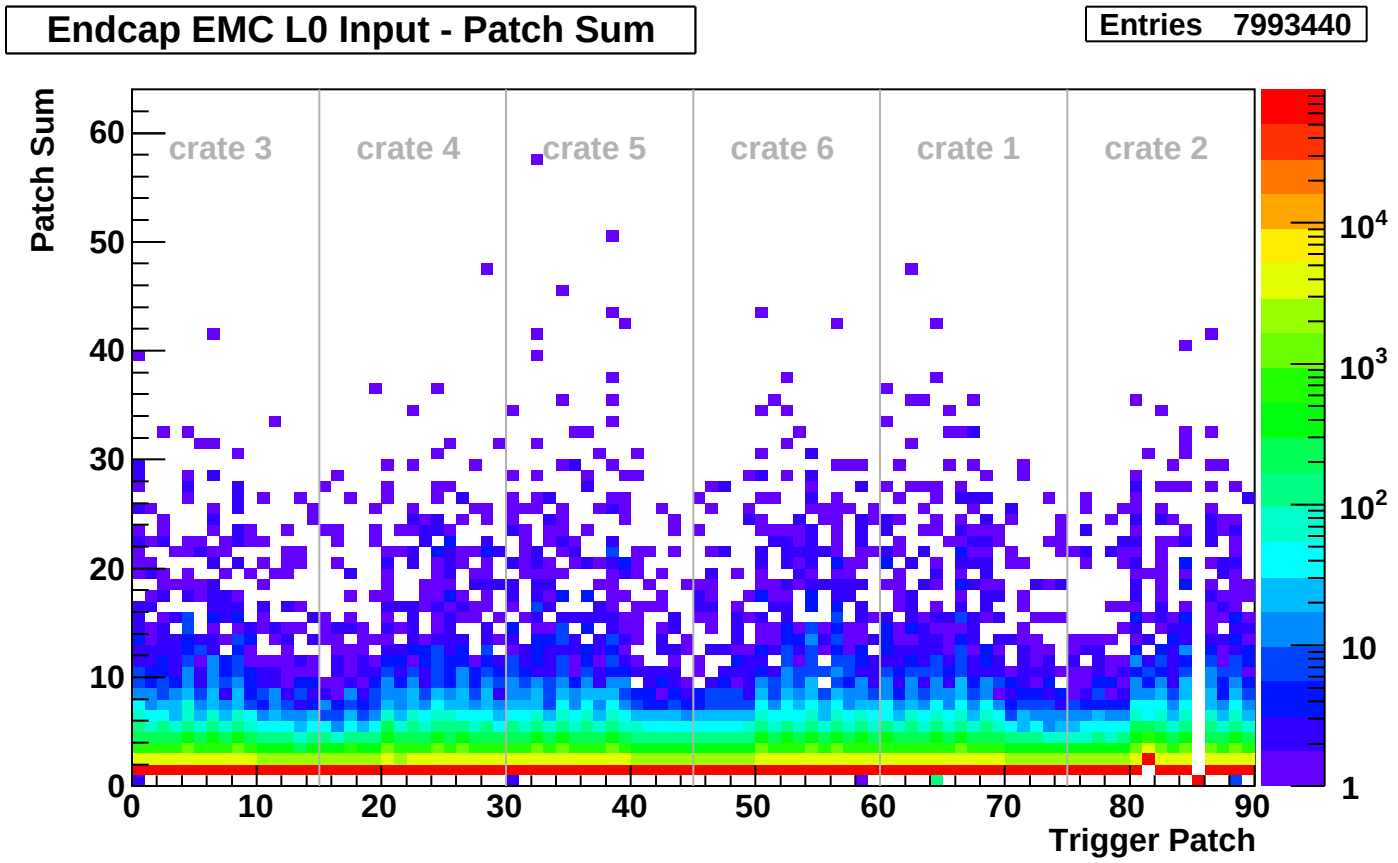

Abort-gaps
Entries 2090

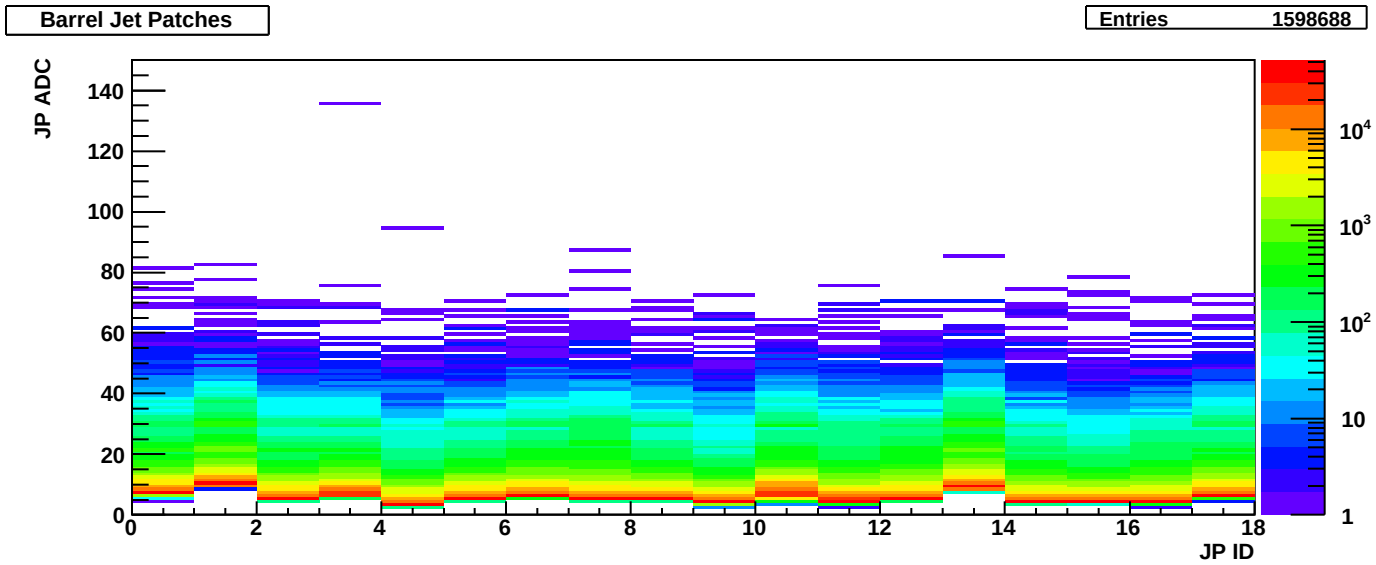

!Yellow-Fill
Entries 2991

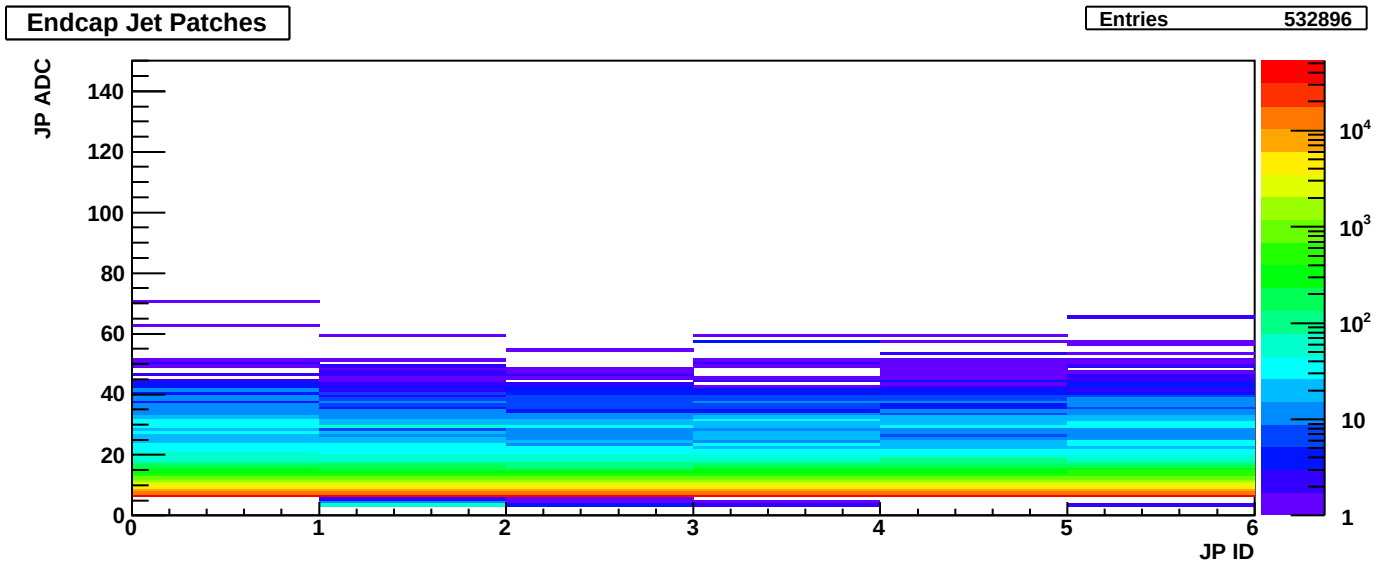

Barrel EMC L0 Input - High Tower
Entries 2.66448e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

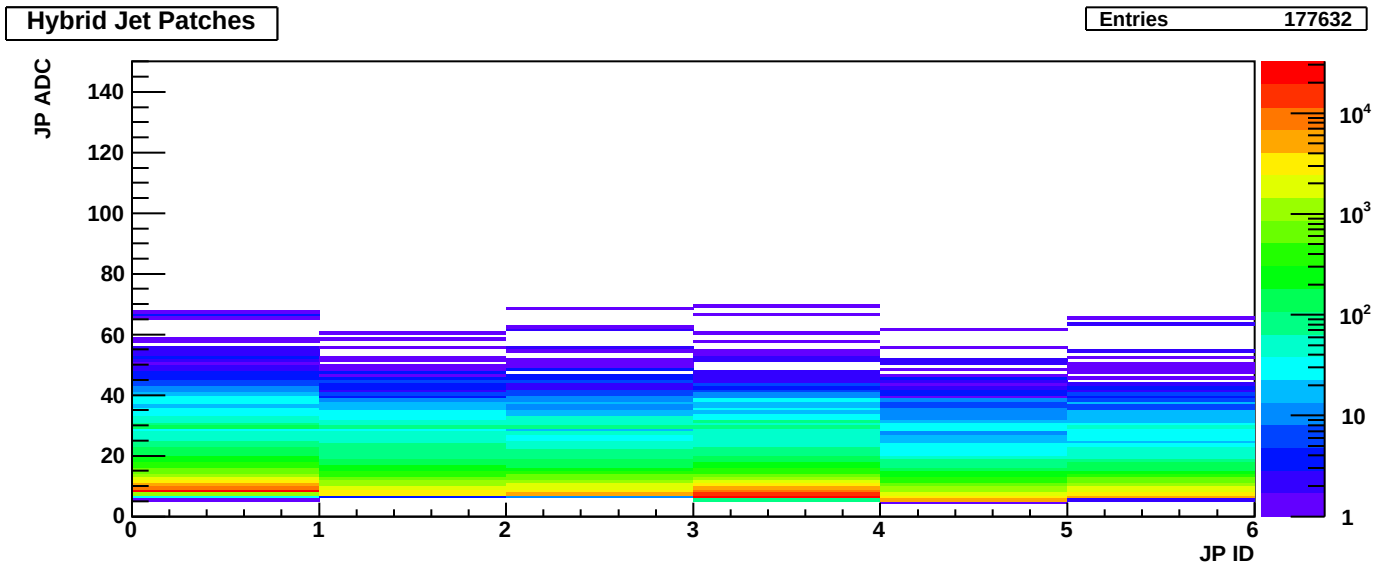

Barrel EMC L0 Input - Patch Sum
Entries 2.66448e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

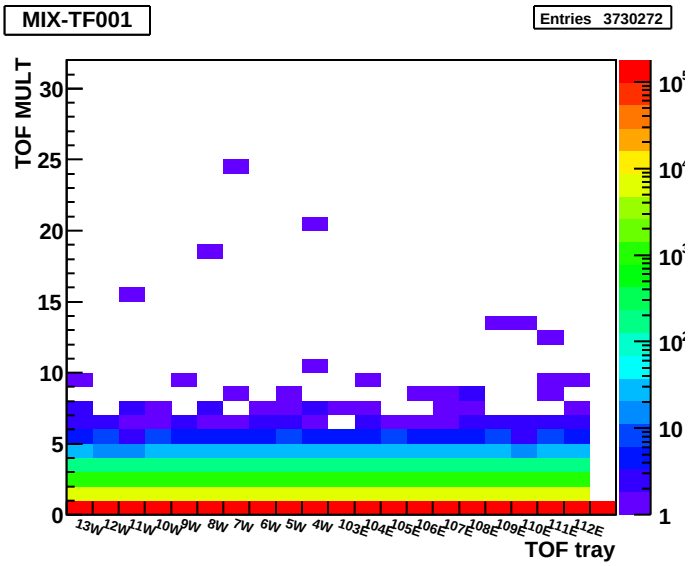

Endcap EMC L0 Input - High Tower
Entries 7993440
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

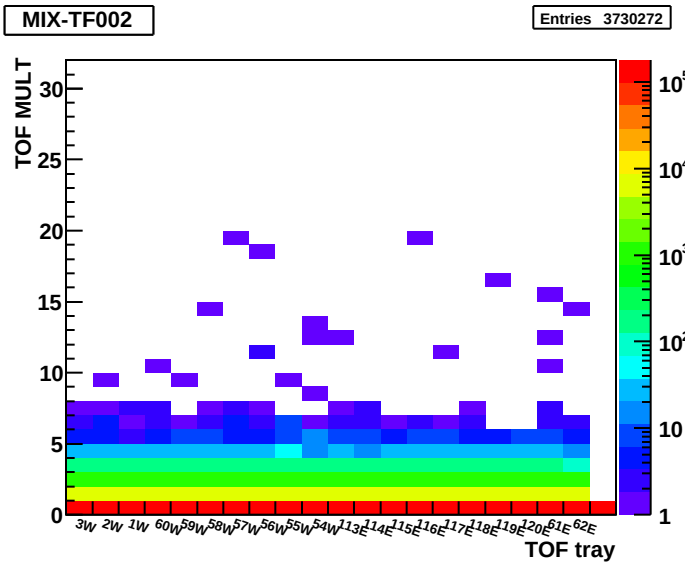

Endcap EMC L0 Input - Patch Sum
Entries 7993440
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

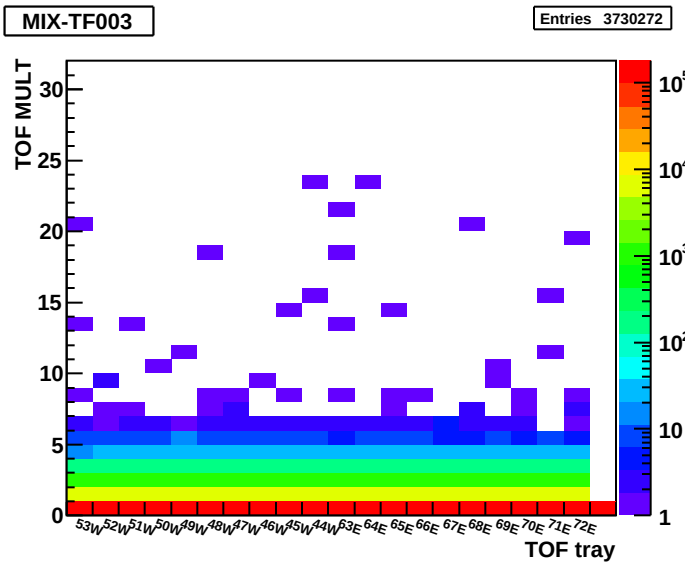

Barrel Jet Patches
Entries 1598688
JP ADC
JP ID

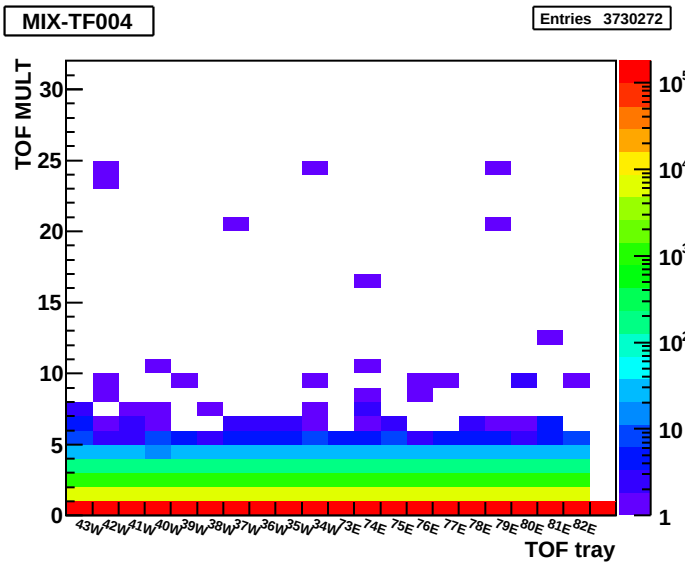

Endcap Jet Patches
Entries 532896
JP ADC
JP ID

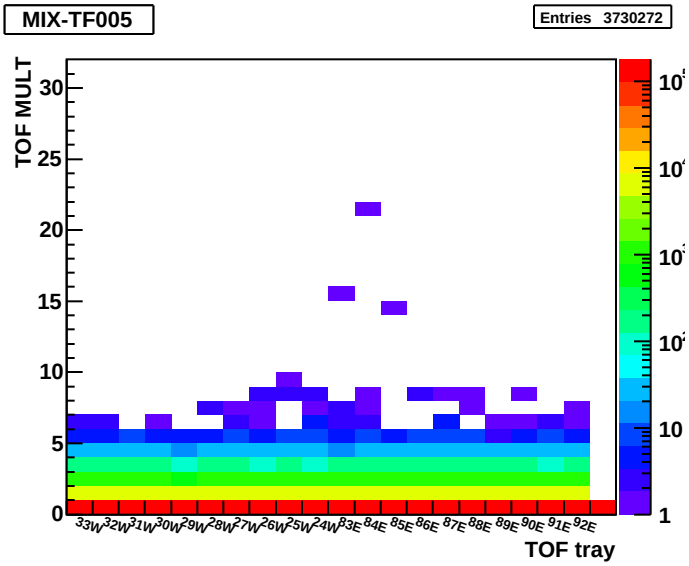

Hybrid Jet Patches
Entries 177632
JP ADC
JP ID

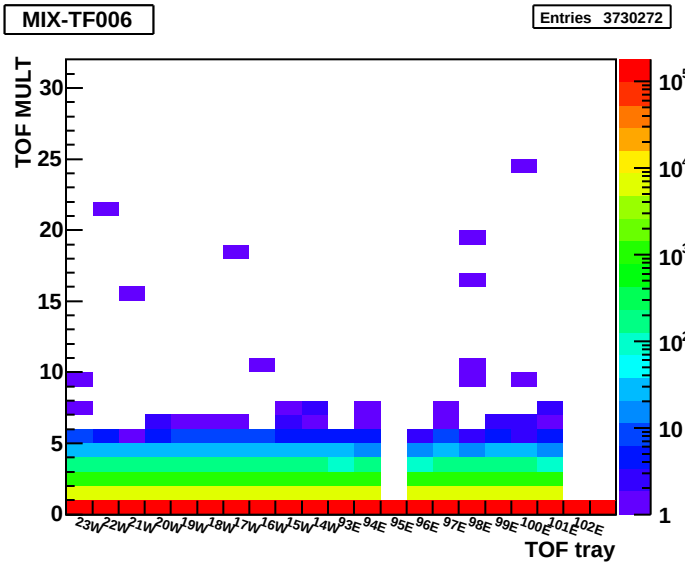

MIX-TF001
Entries 3730272
TOF MULT
TOF tray

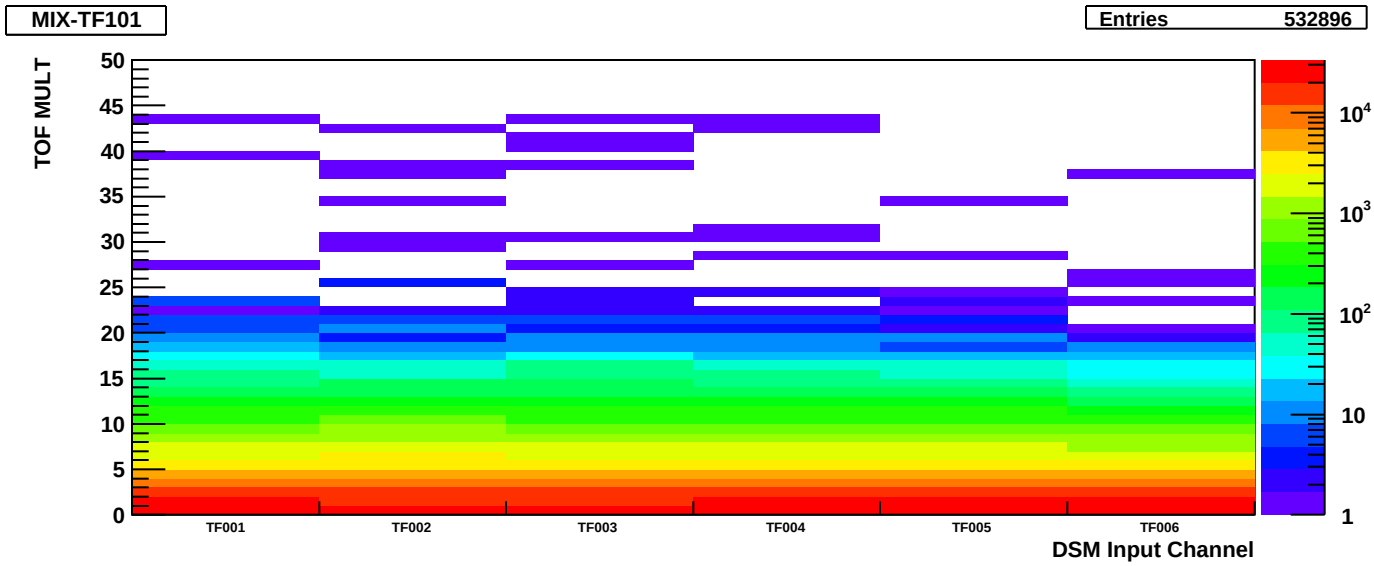

MIX-TF002
Entries 3730272
TOF MULT
TOF tray

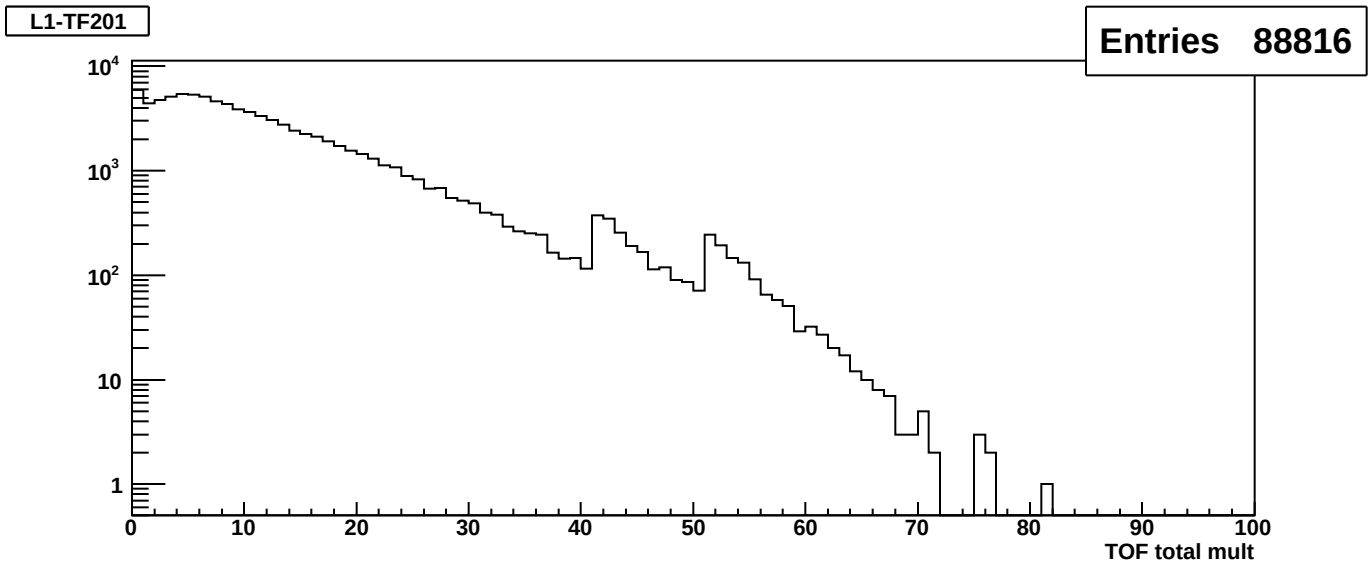

MIX-TF003
Entries 3730272
TOF MULT
TOF tray

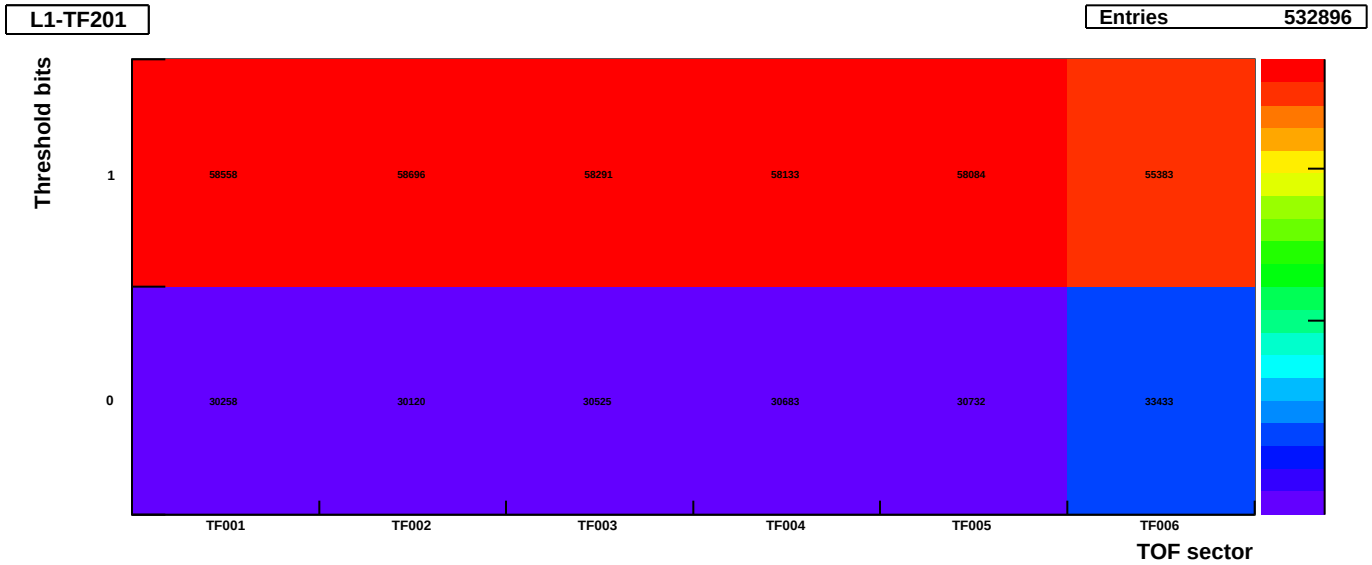

MIX-TF004
Entries 3730272
TOF MULT
TOF tray

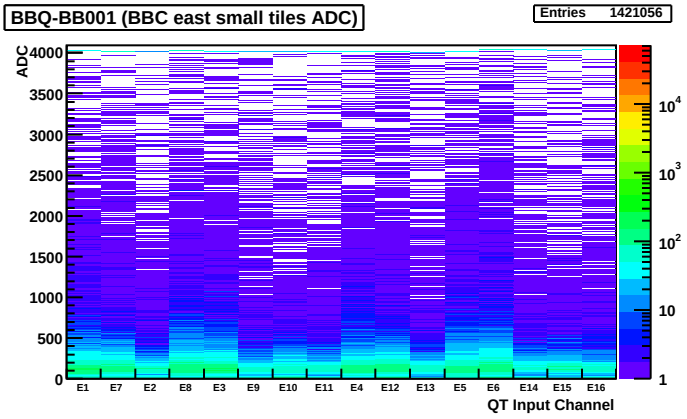

MIX-TF005
Entries 3730272
TOF MULT
TOF tray

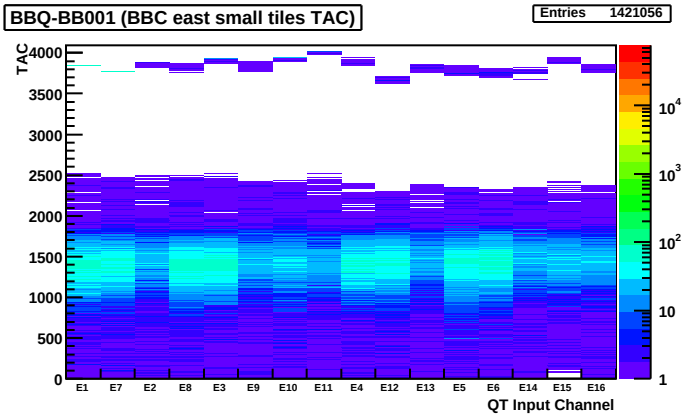

MIX-TF006
Entries 3730272
TOF MULT
TOF tray

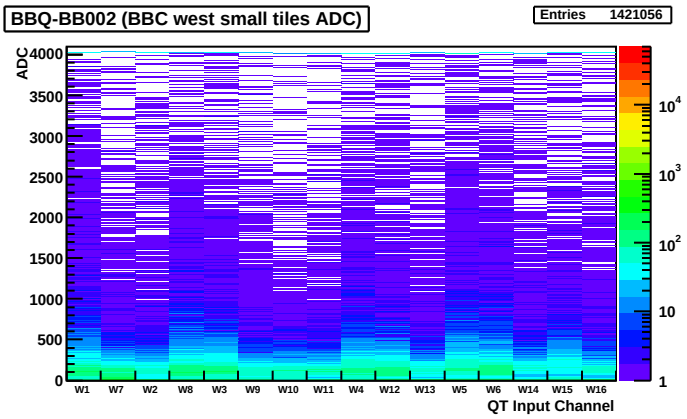

MIX-TF101
Entries 532896
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

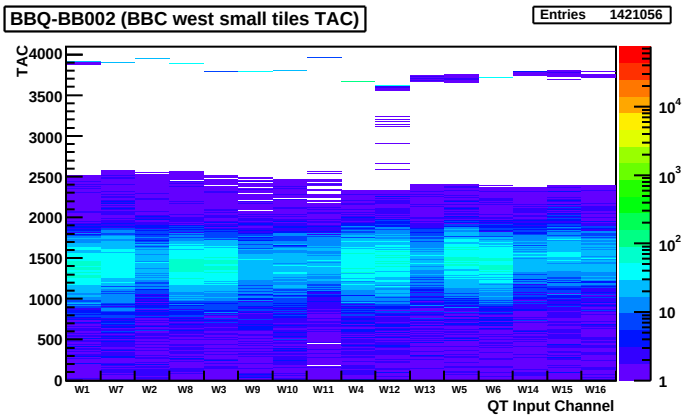

L1-TF201
Entries 88816
TOF total mult

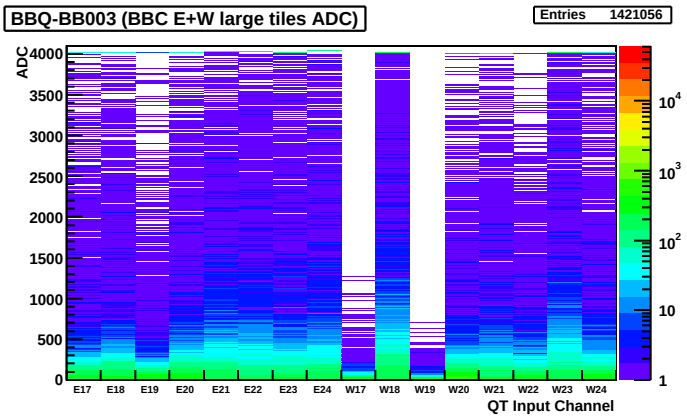

L1-TF201
Entries 532896
Threshold bits
58558
58696
58291
58133
58084
55383
30258
30120
30525
30683
30732
33433
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

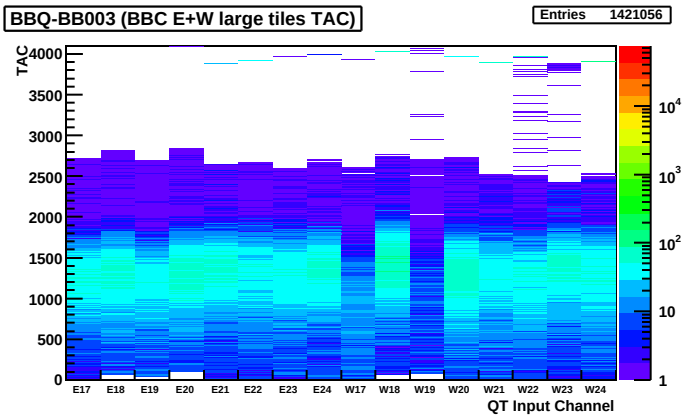

BBQ-BB001 (BBC east small tiles ADC)
Entries 1421056
ADC
QT Input Channel

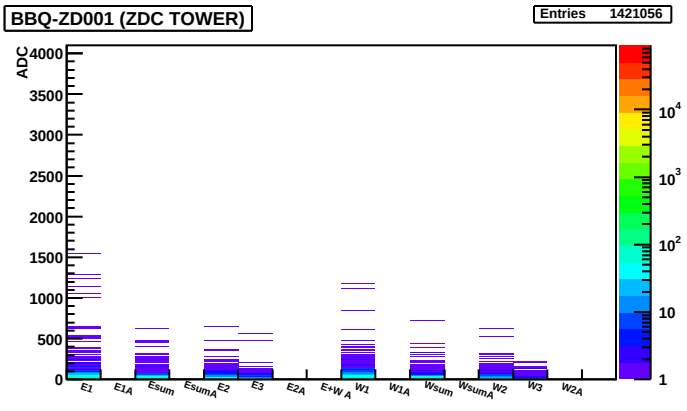

BBQ-BB001 (BBC east small tiles TAC)
Entries 1421056
TAC
QT Input Channel

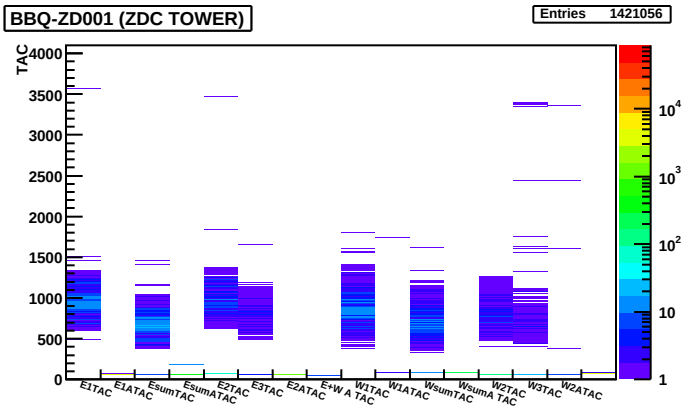

BBQ-BB002 (BBC west small tiles ADC)
Entries 1421056
ADC
QT Input Channel

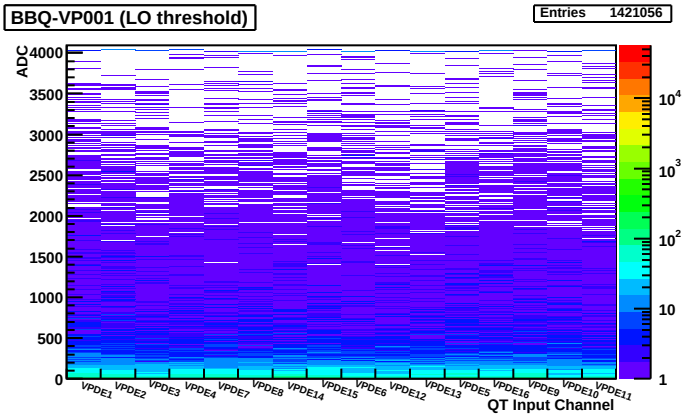

BBQ-BB002 (BBC west small tiles TAC)
Entries 1421056
TAC
QT Input Channel

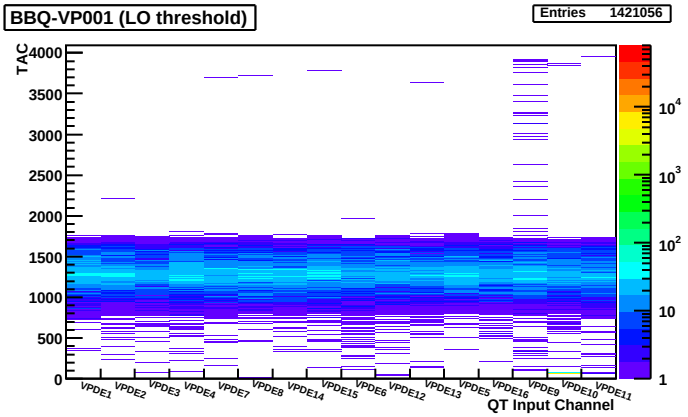

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1421056
ADC
QT Input Channel

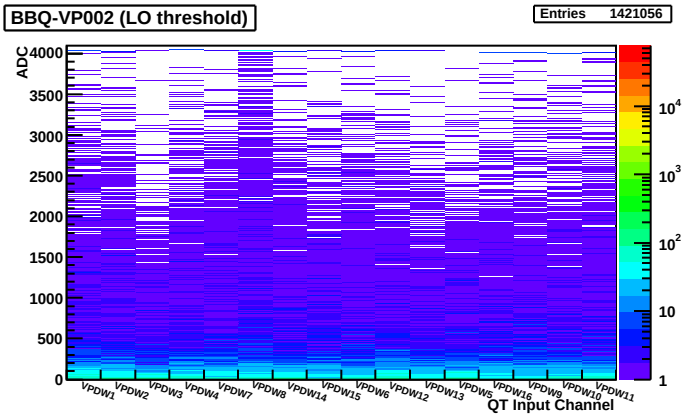

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1421056
TAC
QT Input Channel

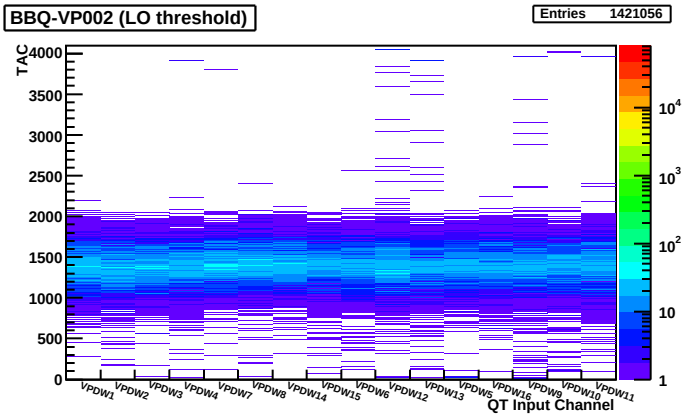

BBQ-ZD001 (ZDC TOWER)
Entries 1421056
ADC

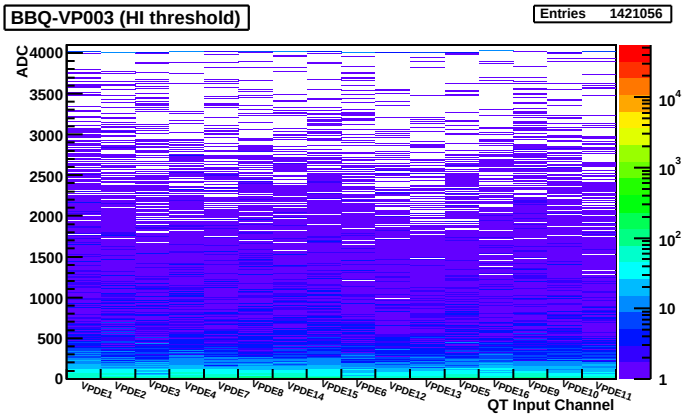

BBQ-ZD001 (ZDC TOWER)
Entries 1421056
TAC

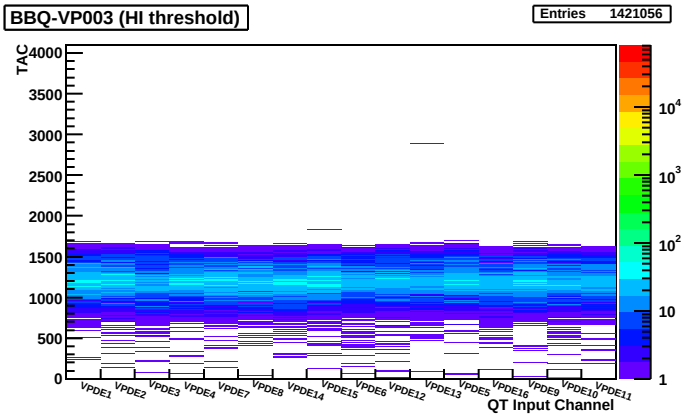

BBQ-VP001 (LO threshold)
Entries 1421056
ADC
QT Input Channel

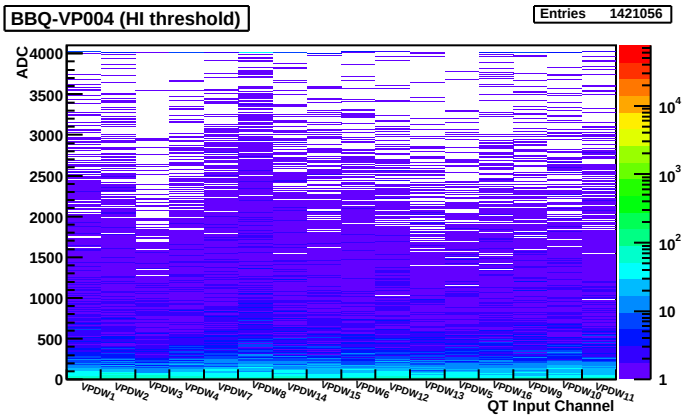

BBQ-VP001 (LO threshold)
Entries 1421056
TAC
QT Input Channel

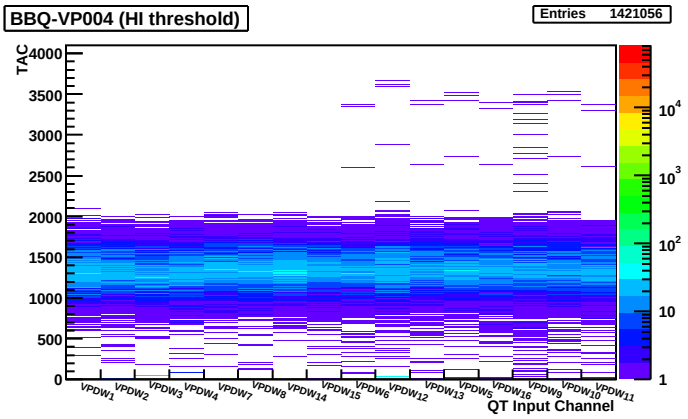

BBQ-VP002 (LO threshold)
Entries 1421056
ADC
QT Input Channel

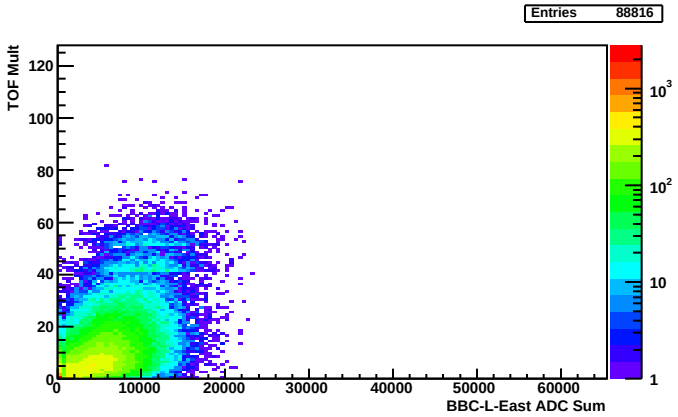

BBQ-VP002 (LO threshold)
Entries 1421056
TAC
QT Input Channel

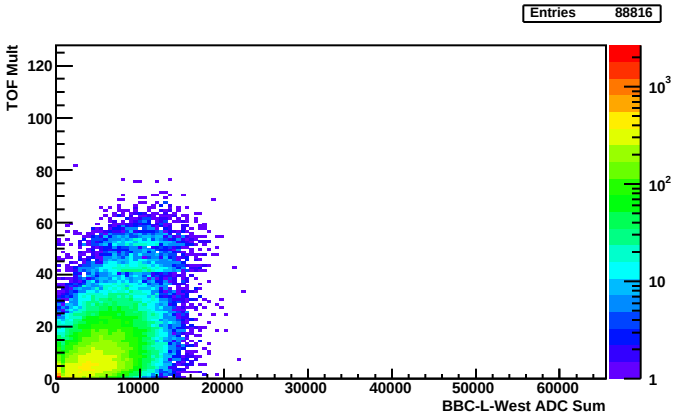

BBQ-VP003 (HI threshold)
Entries 1421056
ADC
QT Input Channel

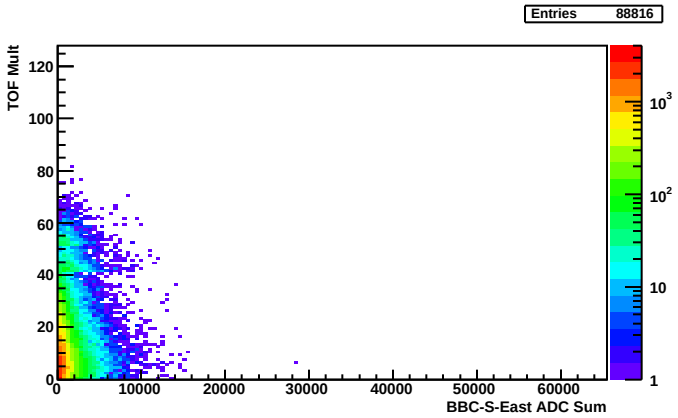

BBQ-VP003 (HI threshold)
Entries 1421056
TAC
QT Input Channel

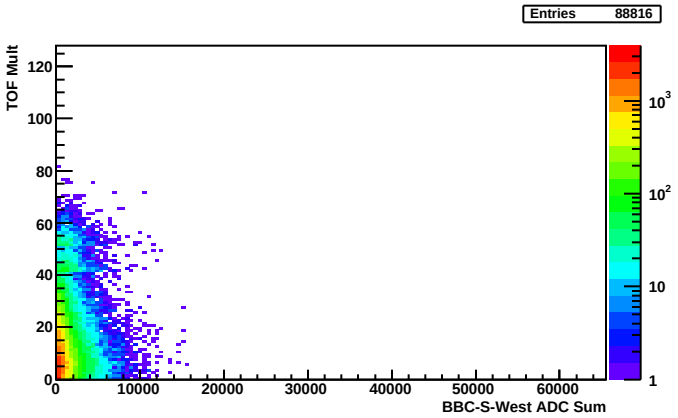

BBQ-VP004 (HI threshold)
Entries 1421056
ADC
QT Input Channel

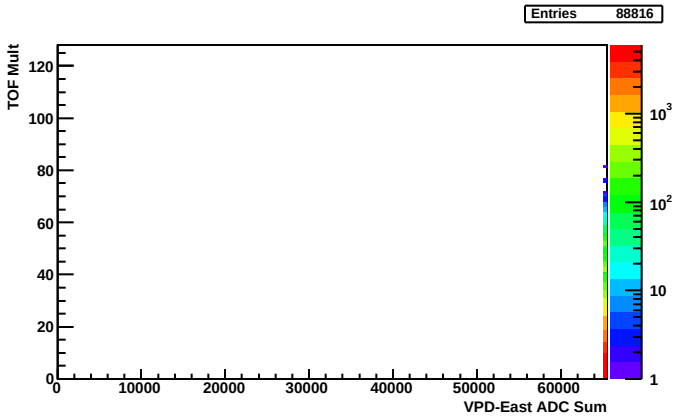

BBQ-VP004 (HI threshold)
Entries 1421056
TAC
QT Input Channel

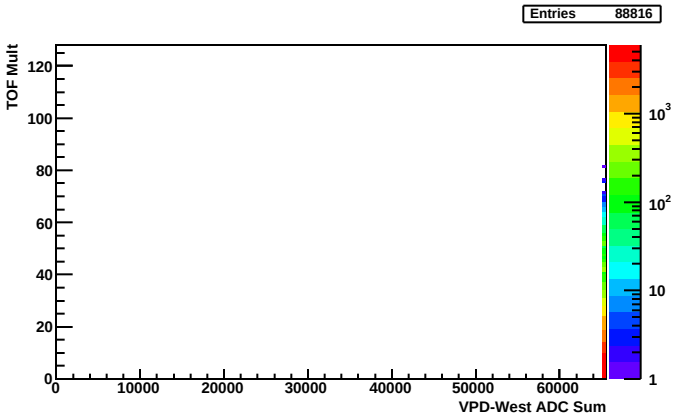

Entries 88816
TOF Mult
BBC-L-East ADC Sum

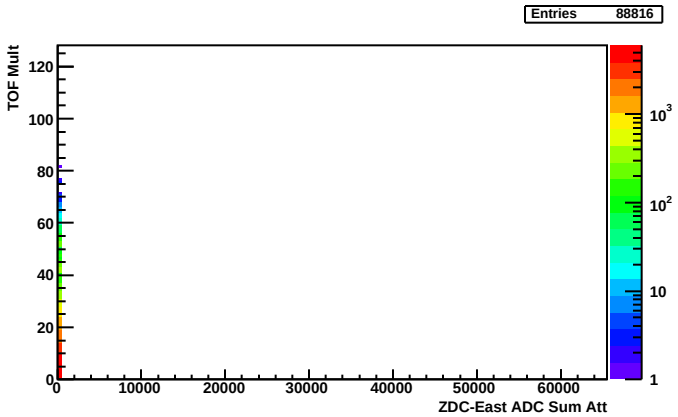

Entries 88816
TOF Mult
BBC-L-West ADC Sum

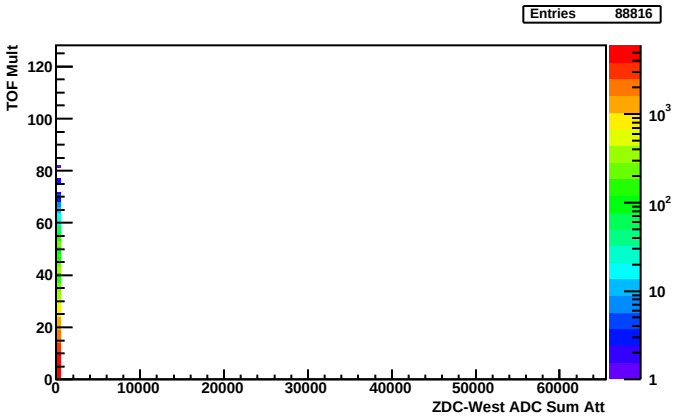

Entries 88816
TOF Mult
BBC-S-East ADC Sum

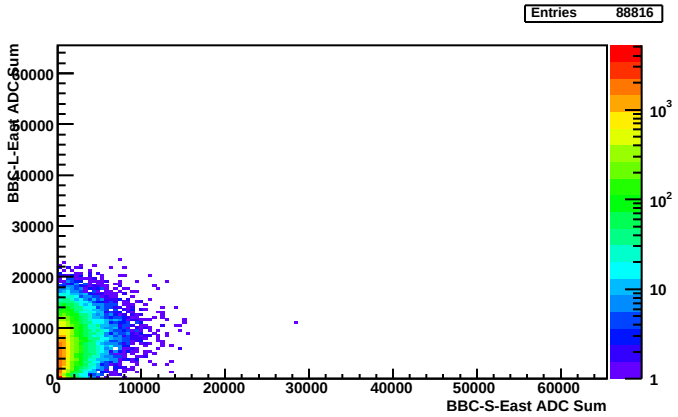

Entries 88816
TOF Mult
BBC-S-West ADC Sum

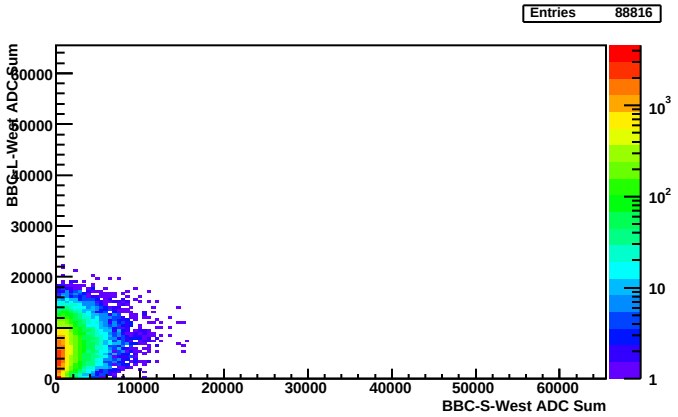

Entries 88816
TOF Mult
VPD-East ADC Sum

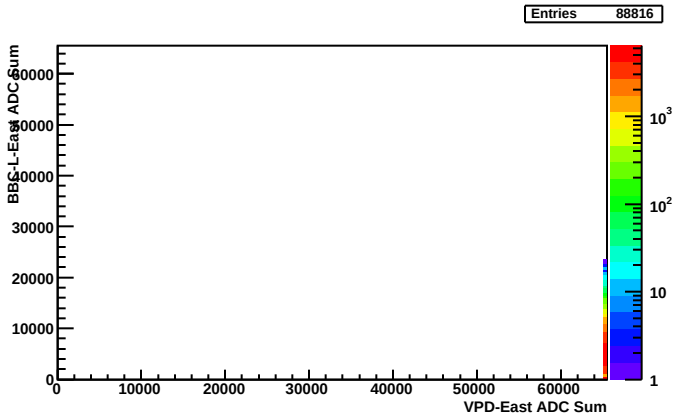

Entries 88816
TOF Mult
VPD-West ADC Sum

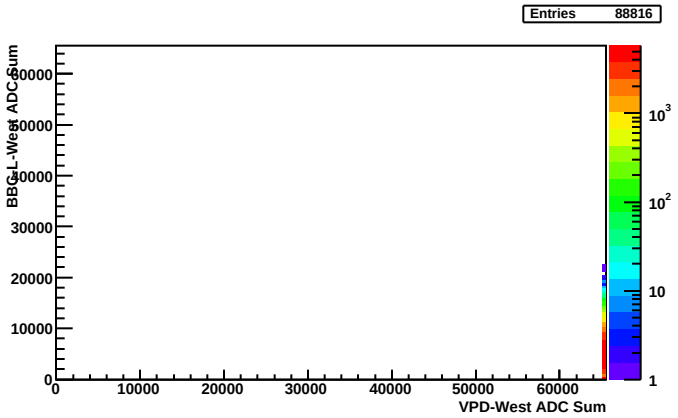

Entries 88816
TOF Mult
ZDC-East ADC Sum Att

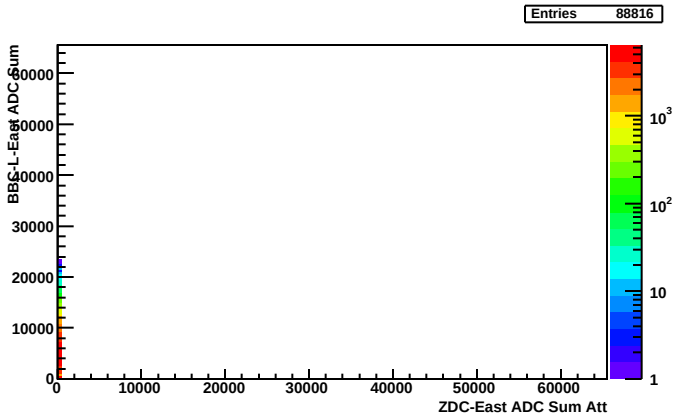

Entries 88816
TOF Mult
ZDC-West ADC Sum Att

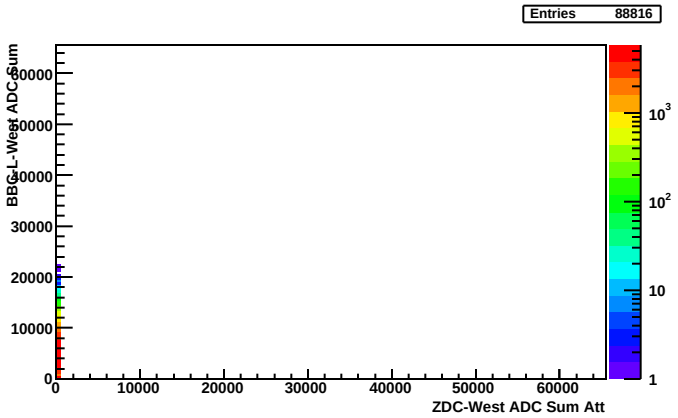

Entries 88816
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 88816
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 88816
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 88816
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 88816
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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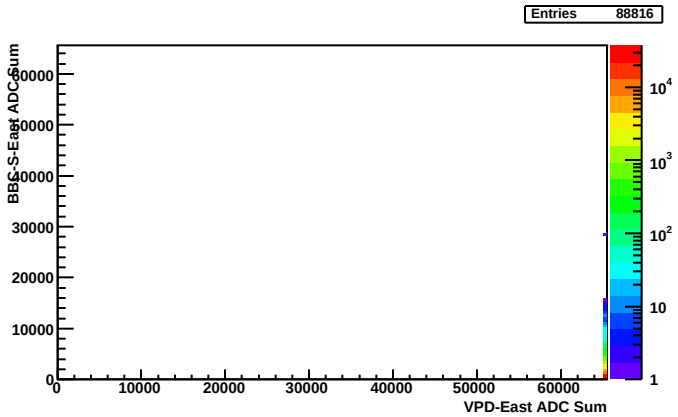
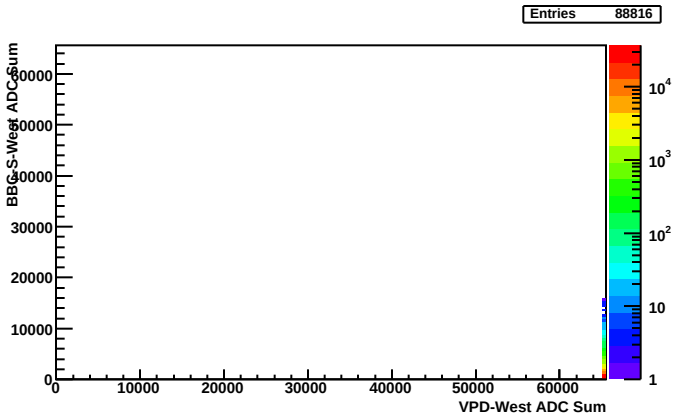
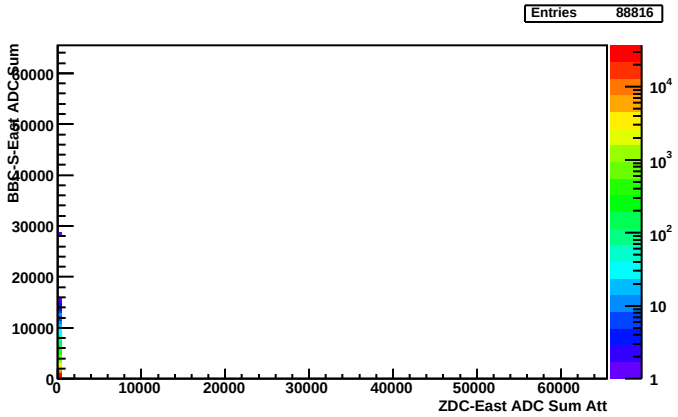
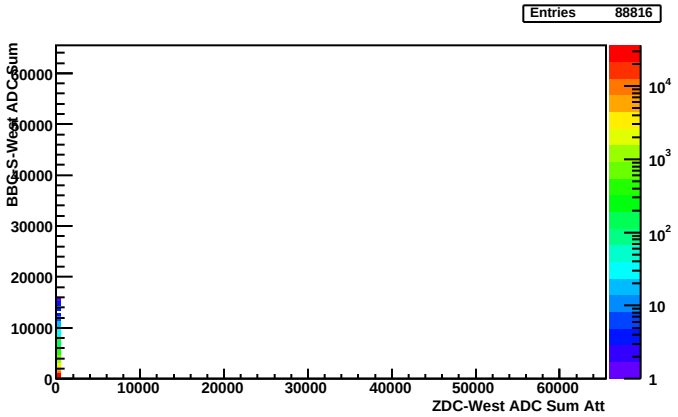
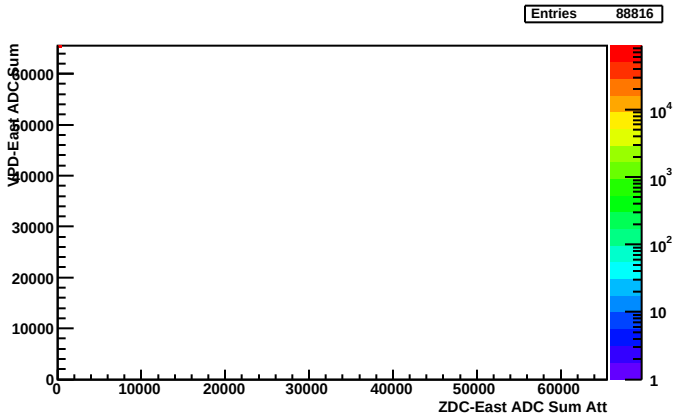
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

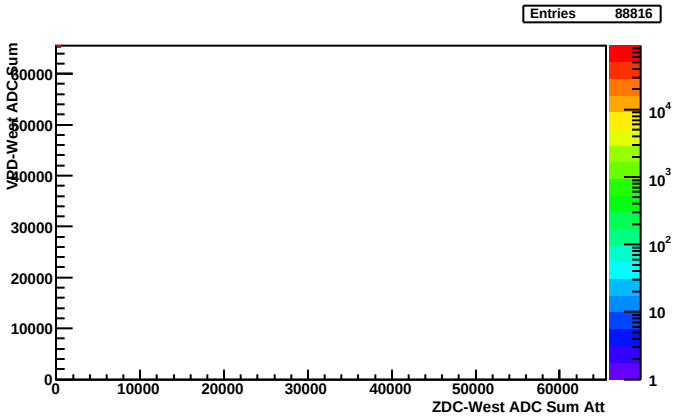

Entries 88816
BBC-S-East ADC Sum
VPD-East ADC Sum

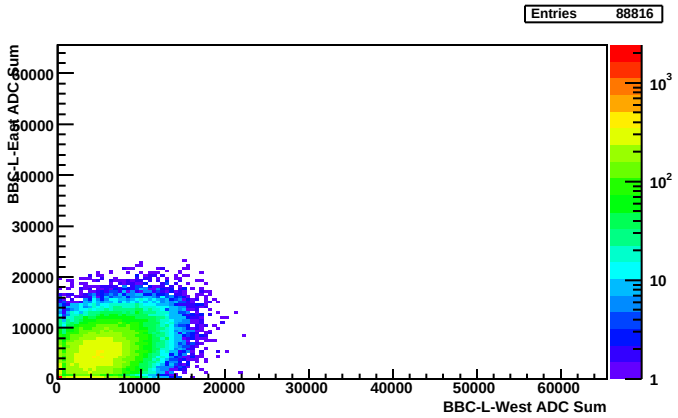

Entries 88816
BBC-S-West ADC Sum
VPD-West ADC Sum

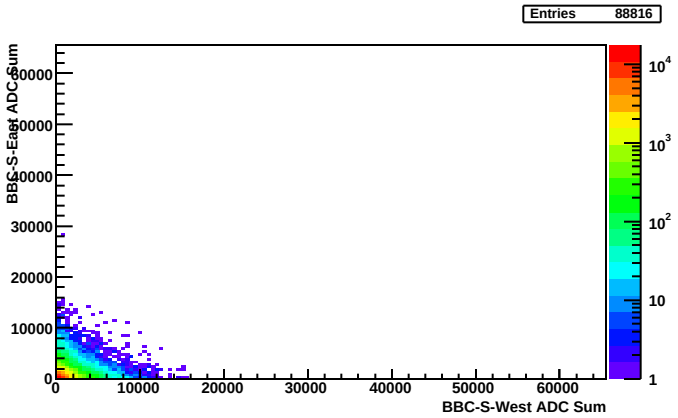

Entries 88816
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

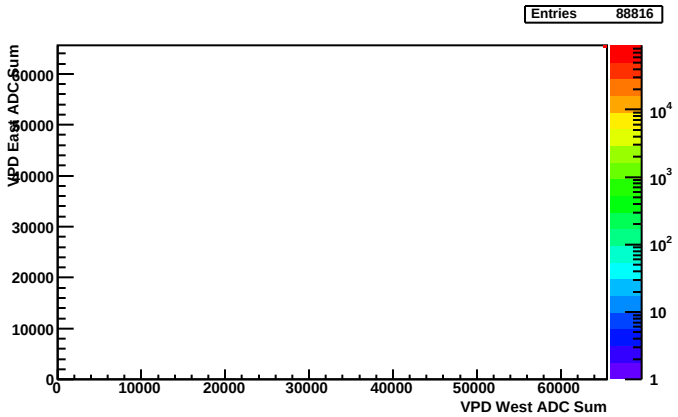

Entries 88816
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

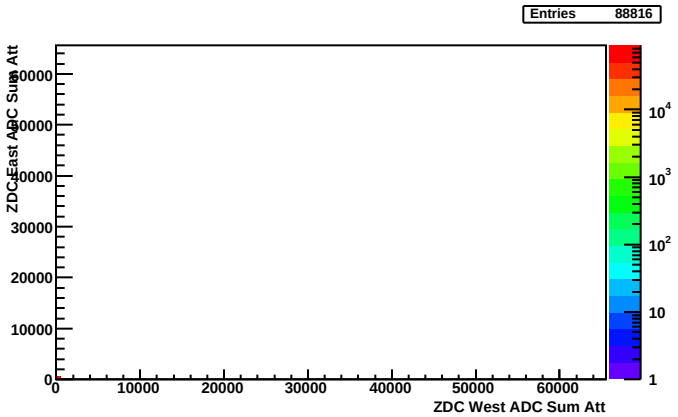

Entries 88816
VPD-East ADC Sum
ZDC-East ADC Sum Att

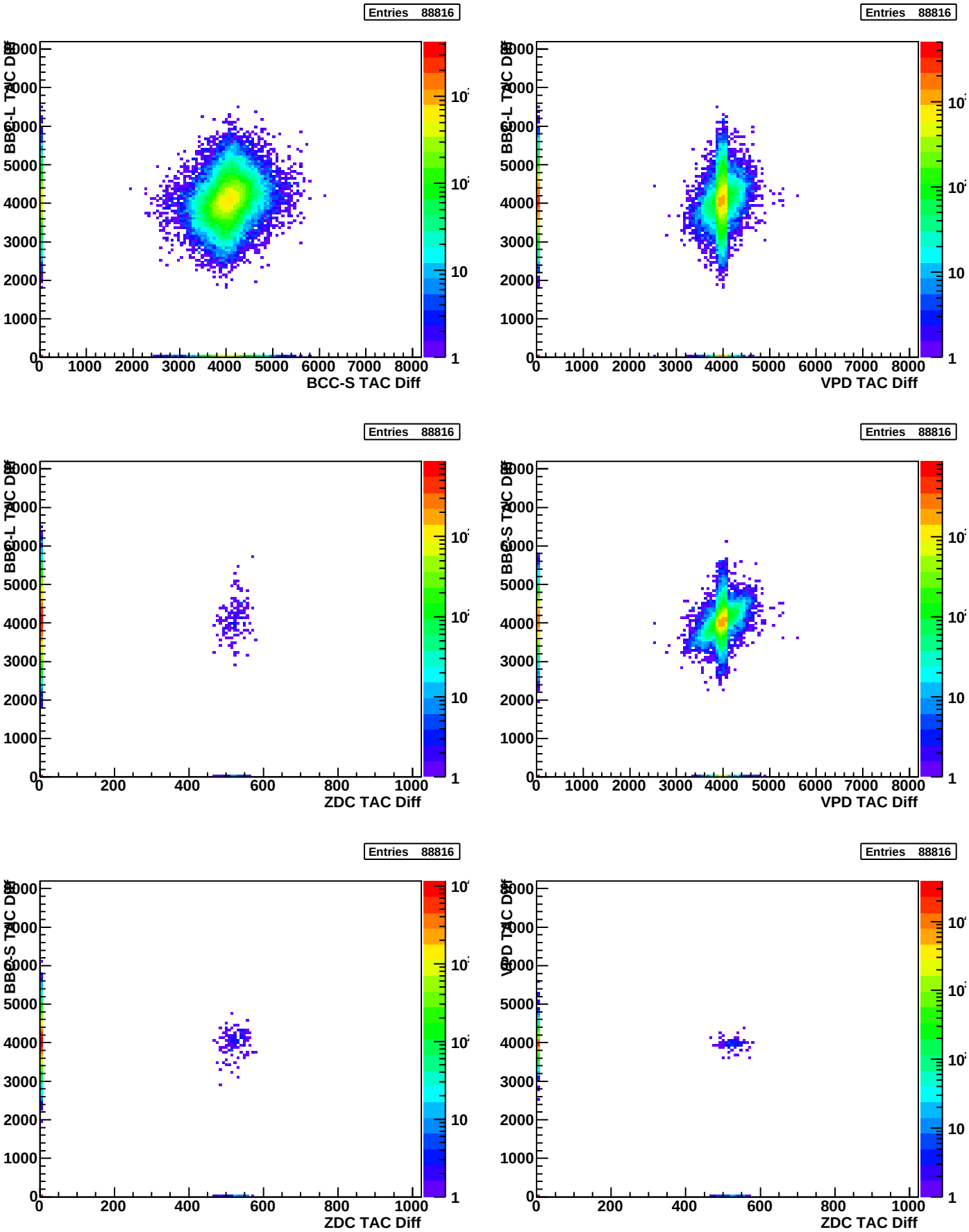

Entries 88816
VPD-West ADC Sum
ZDC-West ADC Sum Att

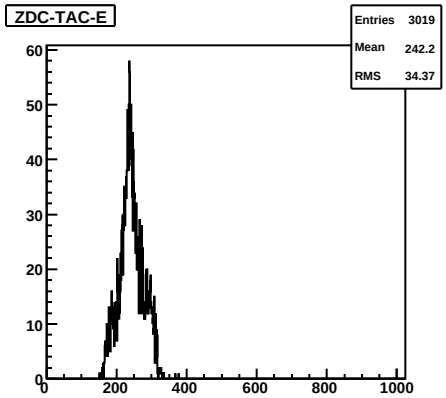

Entries 88816
BBC-L-East ADC Sum
BBC-L-West ADC Sum

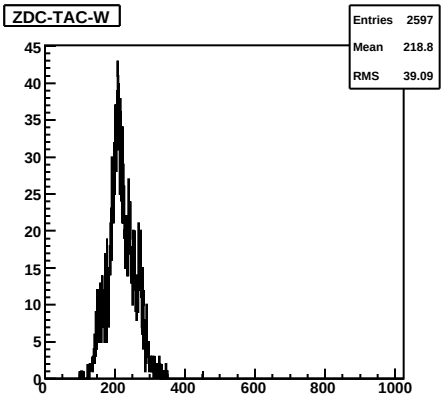

Entries 88816
BBC-S-East ADC Sum
BBC-S-West ADC Sum

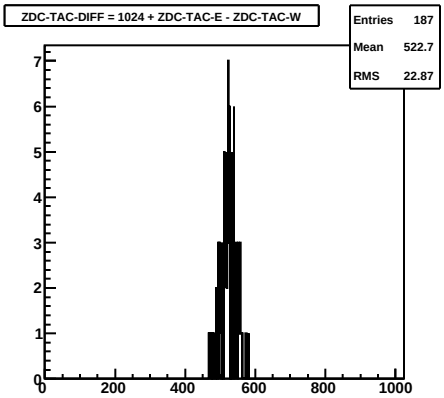

Entries 88816
VPD East ADC Sum
VPD West ADC Sum

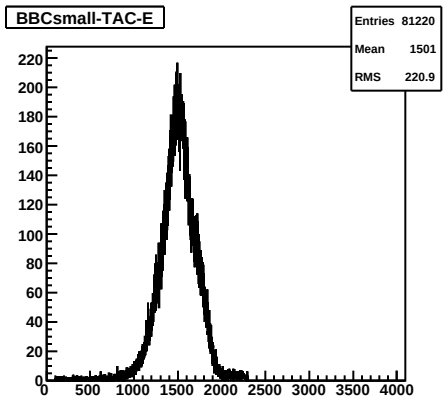

Entries 88816
ZDC East ADC Sum Att
ZDC West ADC Sum Att

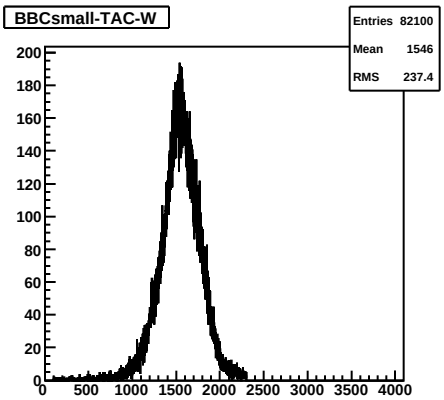

Entries 88816
BBC-L TAC Diff
BCC-S TAC Diff
Entries 88816
BBC-L TAC Diff
VPD TAC Diff
Entries 88816
BBC-L TAC Diff
ZDC TAC Diff
Entries 88816
BBC-S TAC Diff
VPD TAC Diff
Entries 88816
BBC-S TAC Diff
ZDC TAC Diff
Entries 88816
VPD TAC Diff
ZDC TAC Diff

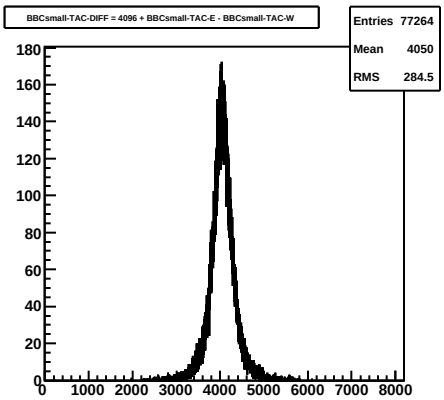

ZDC-TAC-E
Entries 3019
Mean 242.2
RMS 34.37

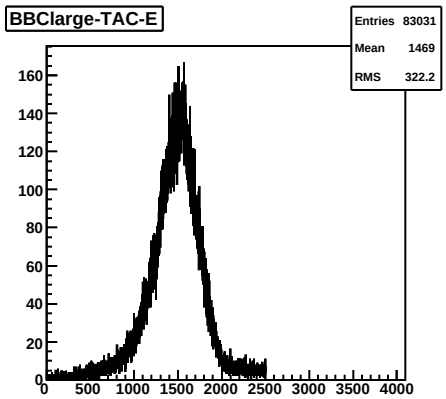

ZDC-TAC-W
Entries 2597
Mean 218.8
RMS 39.09

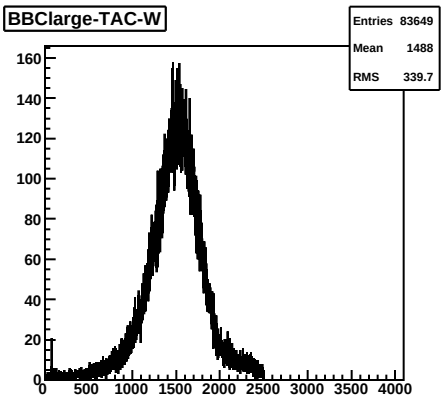

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 187
Mean 522.7
RMS 22.87

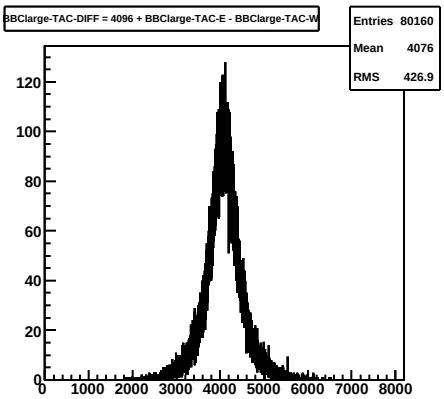

BBCsmall-TAC-E
Entries 81220
Mean 1501
RMS 220.9

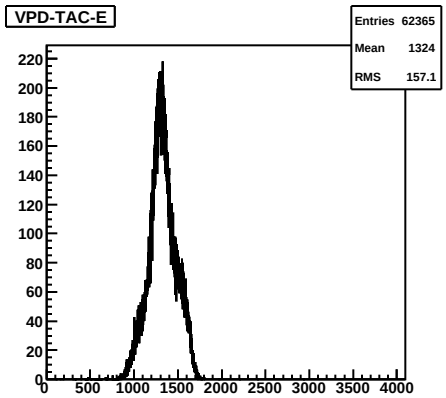

BBCsmall-TAC-W
Entries 82100
Mean 1546
RMS 237.4

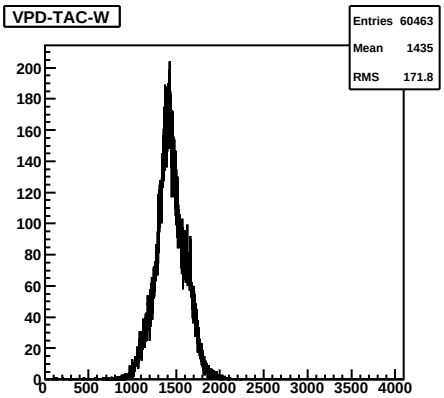

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 77264
Mean 4050
RMS 284.5

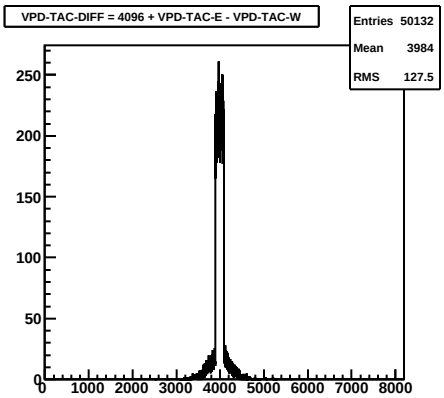

BBClarge-TAC-E
Entries 83031
Mean 1469
RMS 322.2

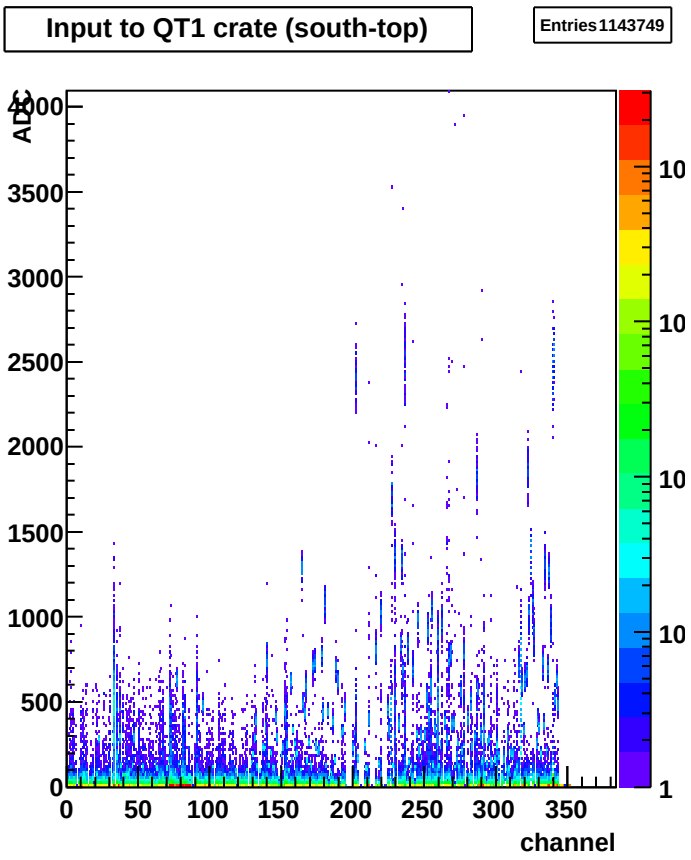

BBClarge-TAC-W
Entries 83649
Mean 1488
RMS 339.7

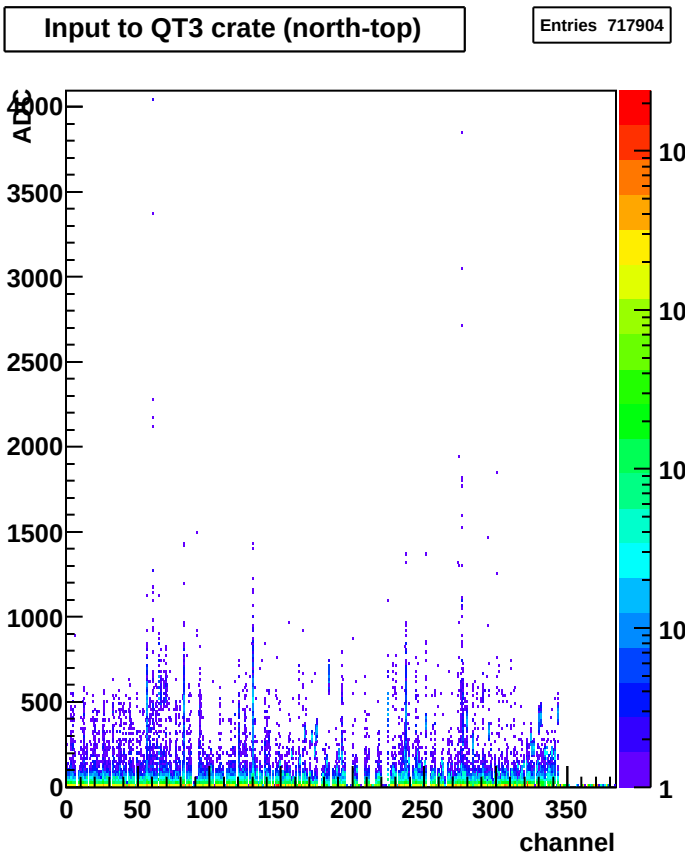

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 80160
Mean 4076
RMS 426.9

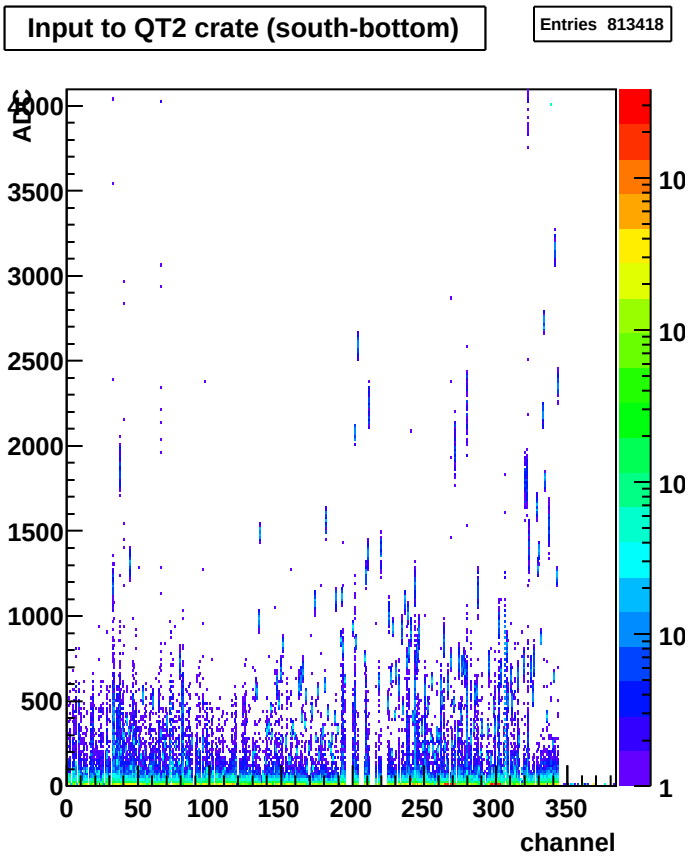

VPD-TAC-E
Entries 62365
Mean 1324
RMS 157.1

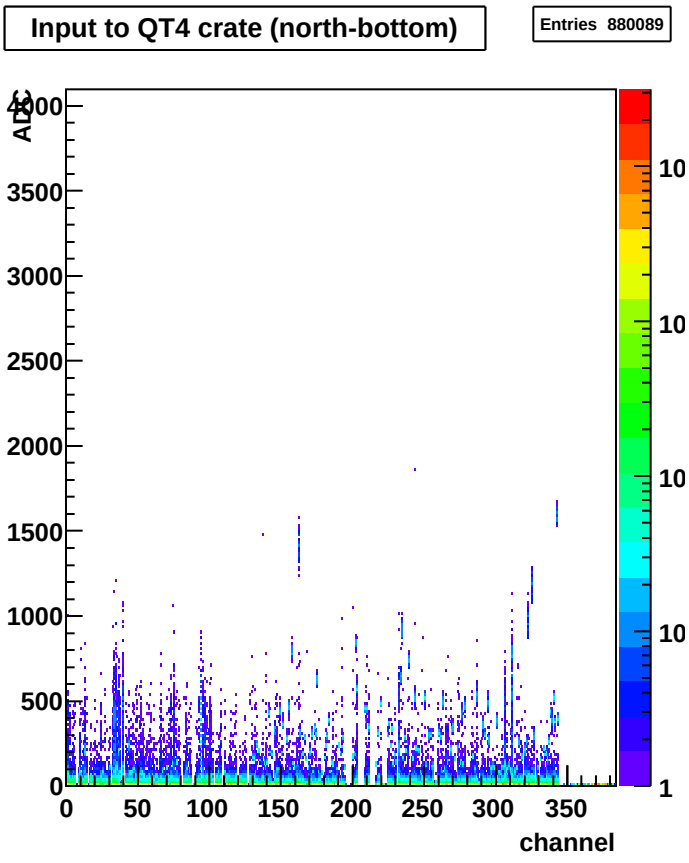

VPD-TAC-W
Entries 60463
Mean 1435
RMS 171.8

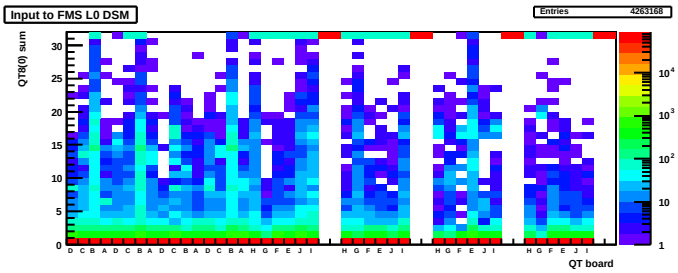

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 50132
Mean 3984
RMS 127.5

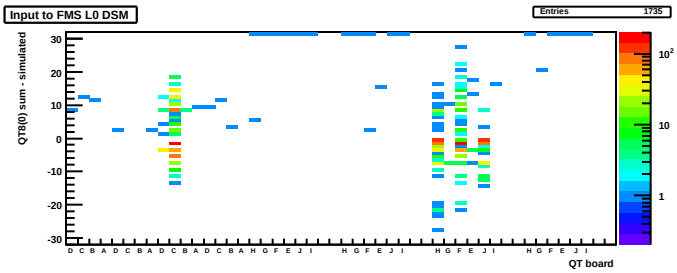

Input to QT1 crate (south-top)
Entries 1143749
ADC
channel

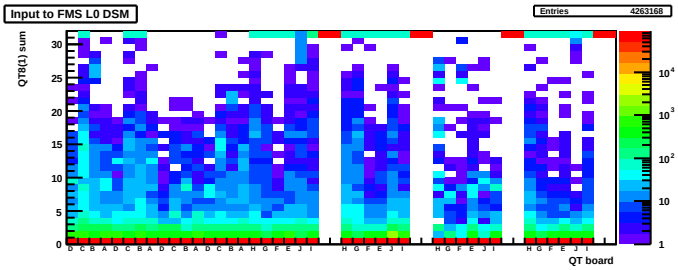

Input to QT3 crate (north-top)
Entries 717904
ADC
channel

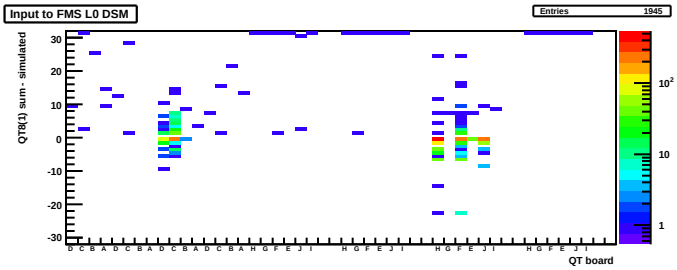

Input to QT2 crate (south-bottom)
Entries 813418
ADC
channel

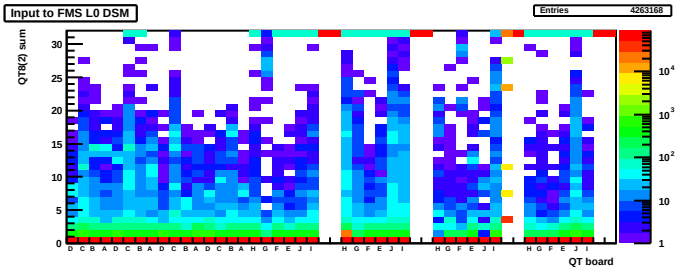

Input to QT4 crate (north-bottom)
Entries 880089
ADC
channel

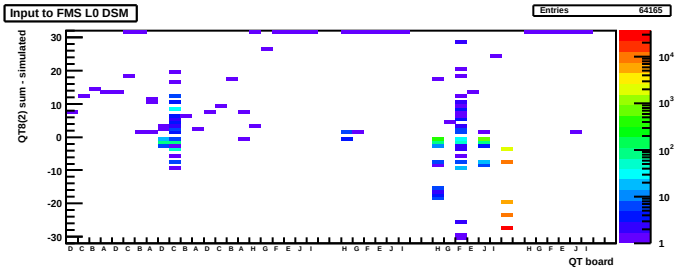

Input to FMS L0 DSM
Entries 4263168
QT8(0) sum
QT board

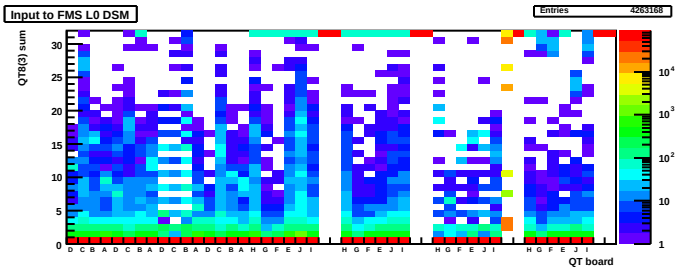

Input to FMS L0 DSM
Entries 1735
QT8(0) sum - simulated
QT board

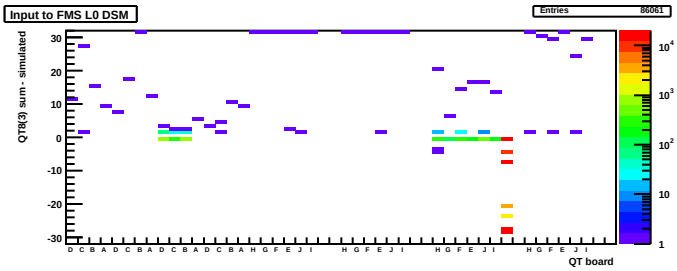

Input to FMS L0 DSM
Entries 4263168
QT8(1) sum
QT board

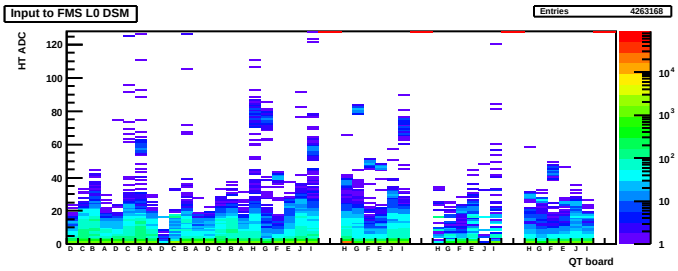

Input to FMS L0 DSM
Entries 1945
QT8(1) sum - simulated
QT board

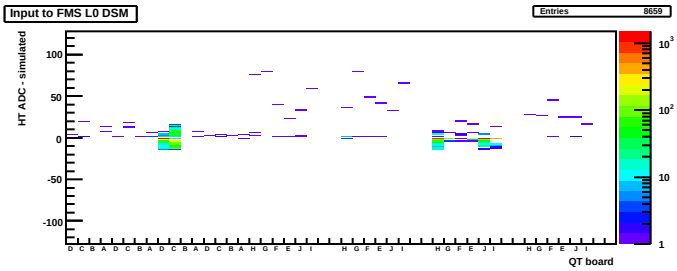

Input to FMS L0 DSM
Entries 4263168
QT8(2) sum
QT board

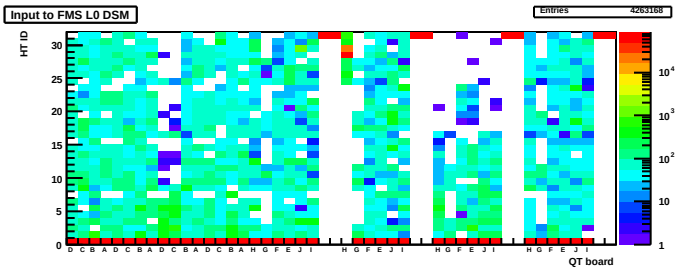

Input to FMS L0 DSM
Entries 64165
QT8(2) sum - simulated
QT board

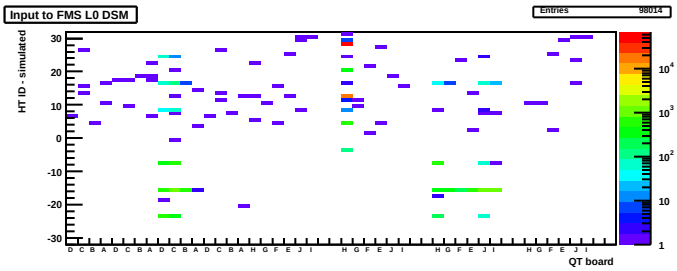

Input to FMS L0 DSM
Entries 4263168
QT8(3) sum
QT board

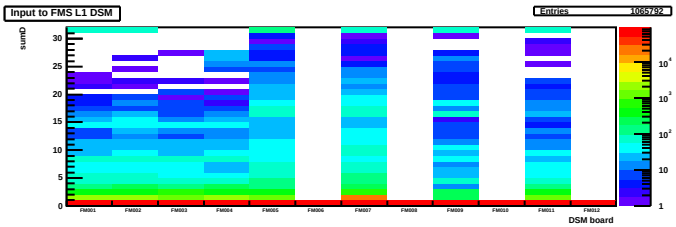

Input to FMS L0 DSM
Entries 86061
QT8(3) sum - simulated
QT board

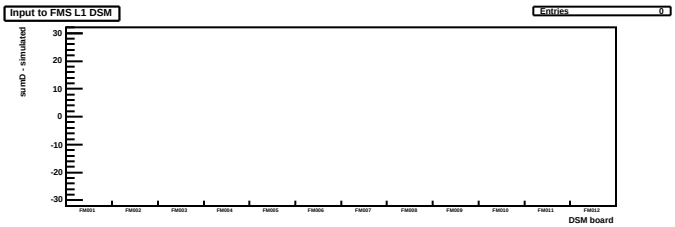

Input to FMS L0 DSM
Entries 4263168
HT ADC
QT board

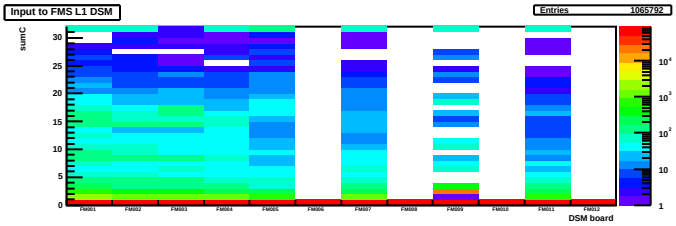

Input to FMS L0 DSM
Entries 8659
HT ADC - simulated
QT board

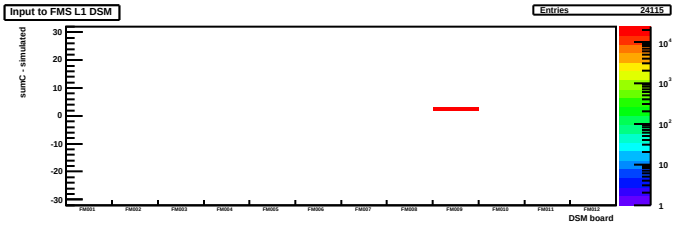

Input to FMS L0 DSM
Entries 4263168
HT ID
QT board

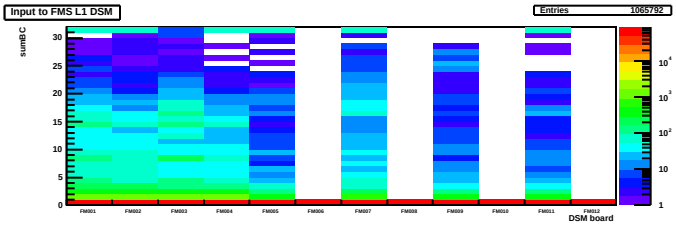

Input to FMS L0 DSM
Entries 98014
HT ID - simulated
QT board

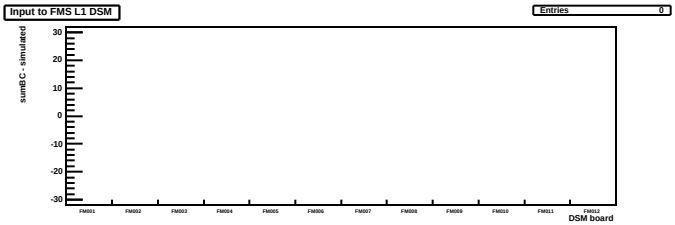

Input to FMS L1 DSM
Entries 1065792
sumD
DSM board

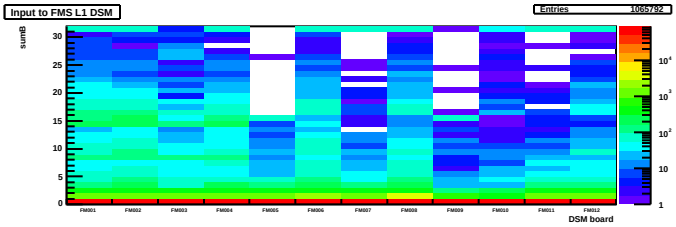

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

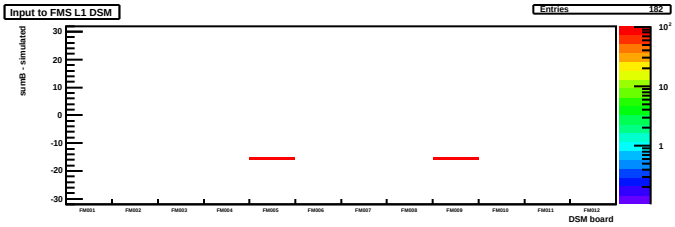

Input to FMS L1 DSM
Entries 1065792
sumC
DSM board

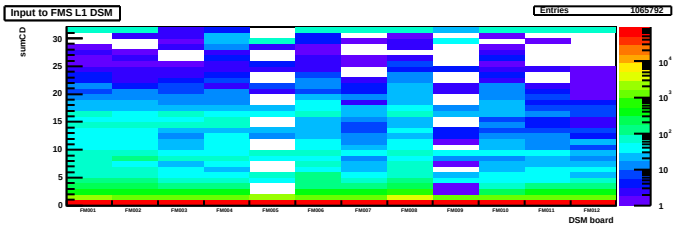

Input to FMS L1 DSM
Entries 24115
sumC - simulated
DSM board

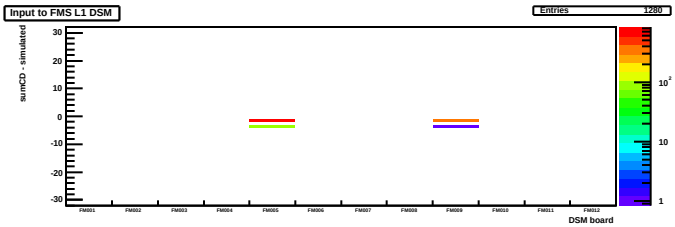

Input to FMS L1 DSM
Entries 1065792
sumBC
DSM board

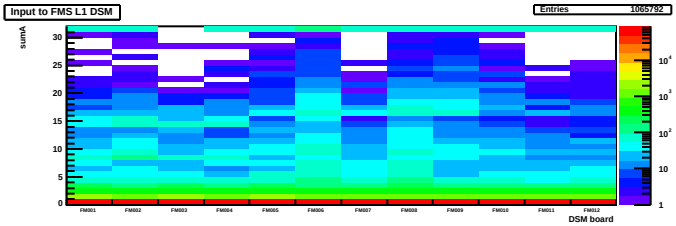

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

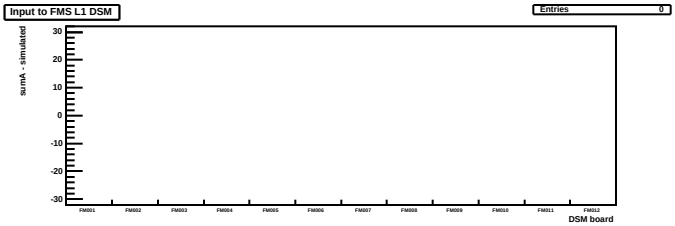

Input to FMS L1 DSM
Entries 1065792
sumB
DSM board

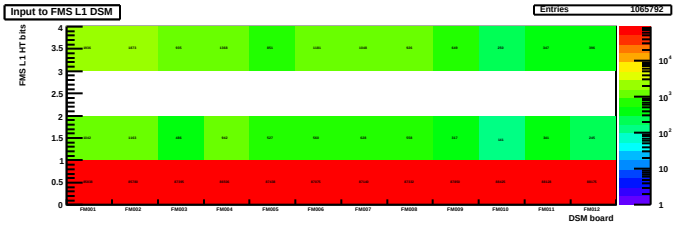

Input to FMS L1 DSM
Entries 182
sumB - simulated
DSM board

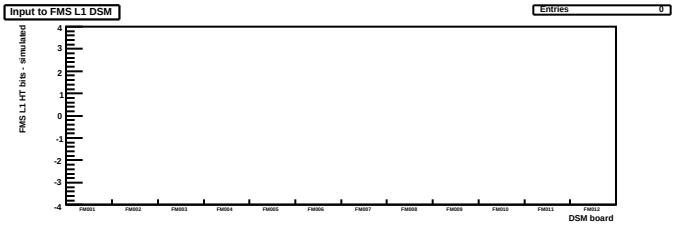

Input to FMS L1 DSM
Entries 1065792
sumCD
DSM board

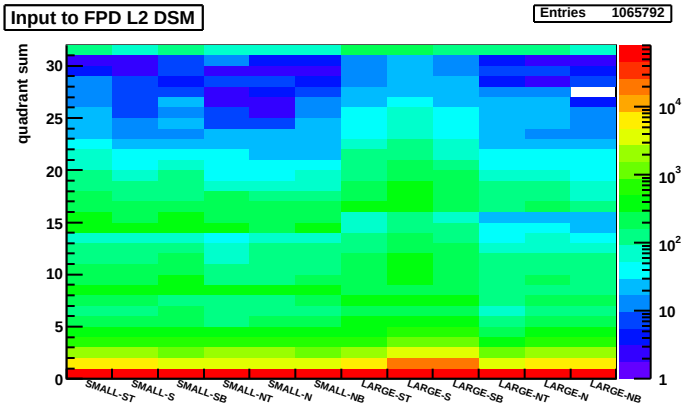

Input to FMS L1 DSM
Entries 1280
sumCD - simulated
DSM board

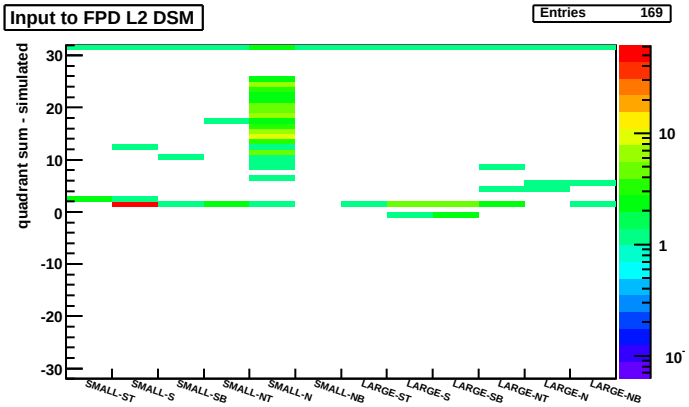

Input to FMS L1 DSM
Entries 1065792
sumA
DSM board

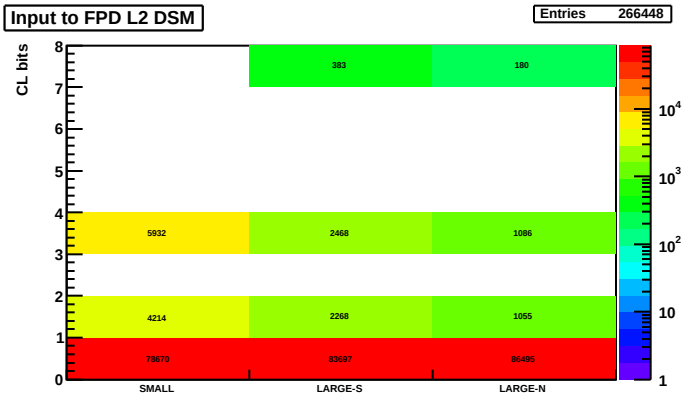

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

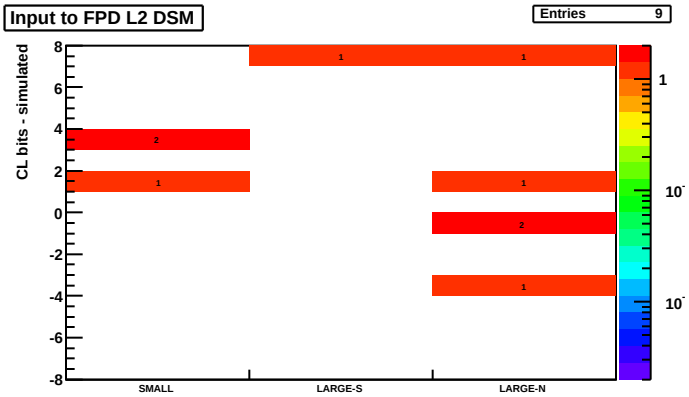

Input to FMS L1 DSM
Entries 1065792
FMS L1 HT bits
DSM board

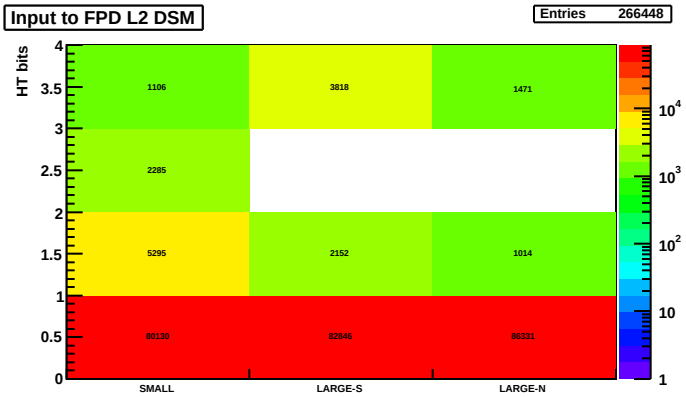

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

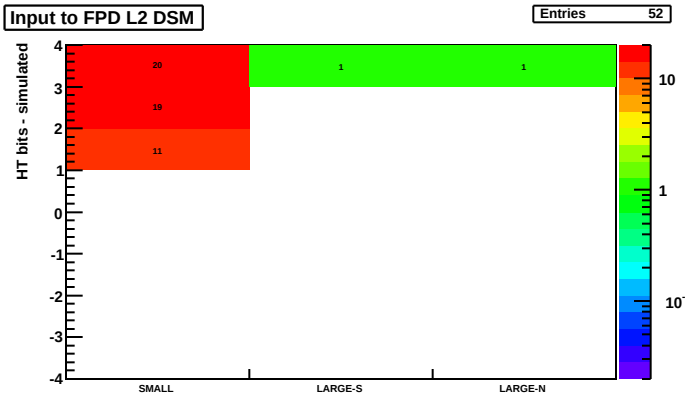

Input to FPD L2 DSM
Entries 1065792
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

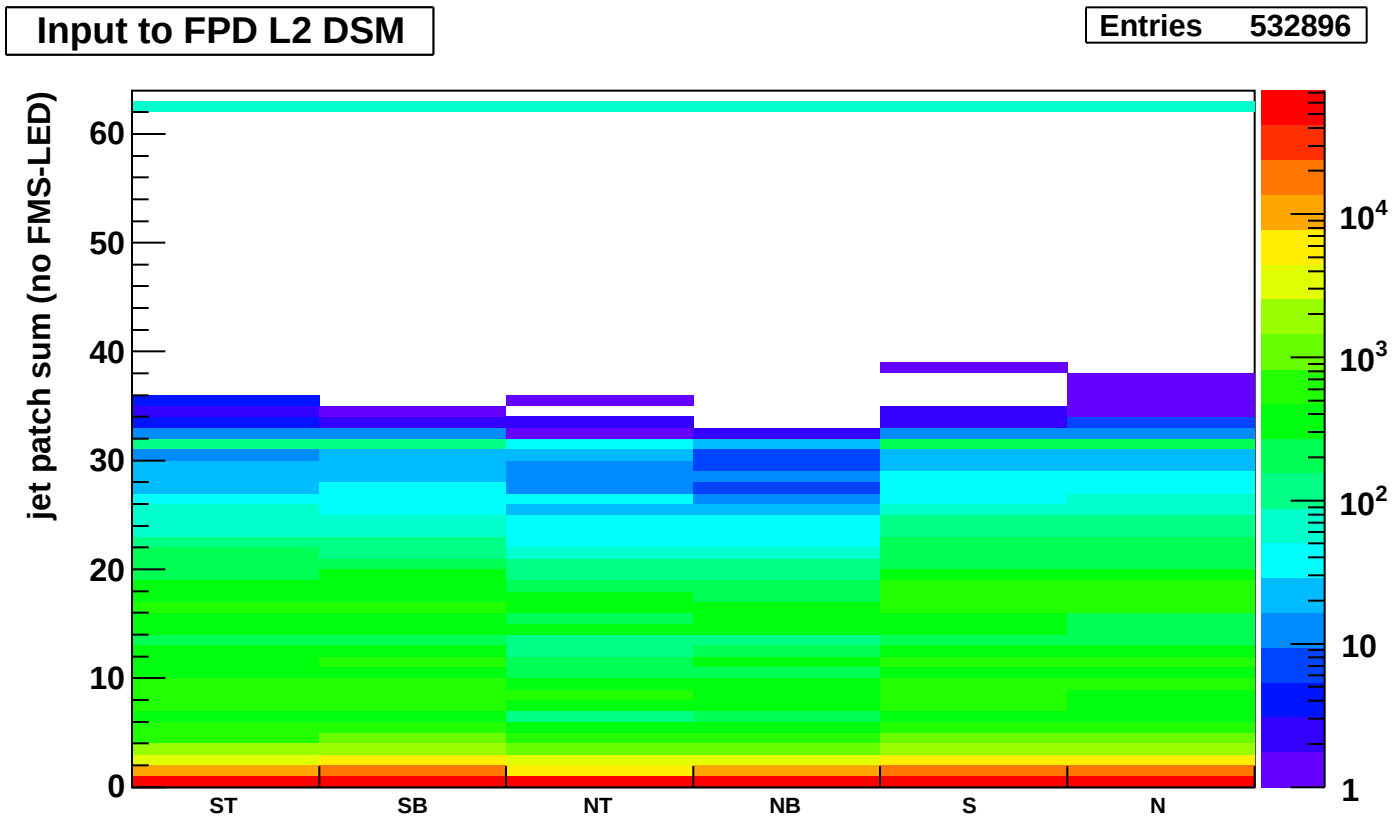

Input to FPD L2 DSM
Entries 169
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

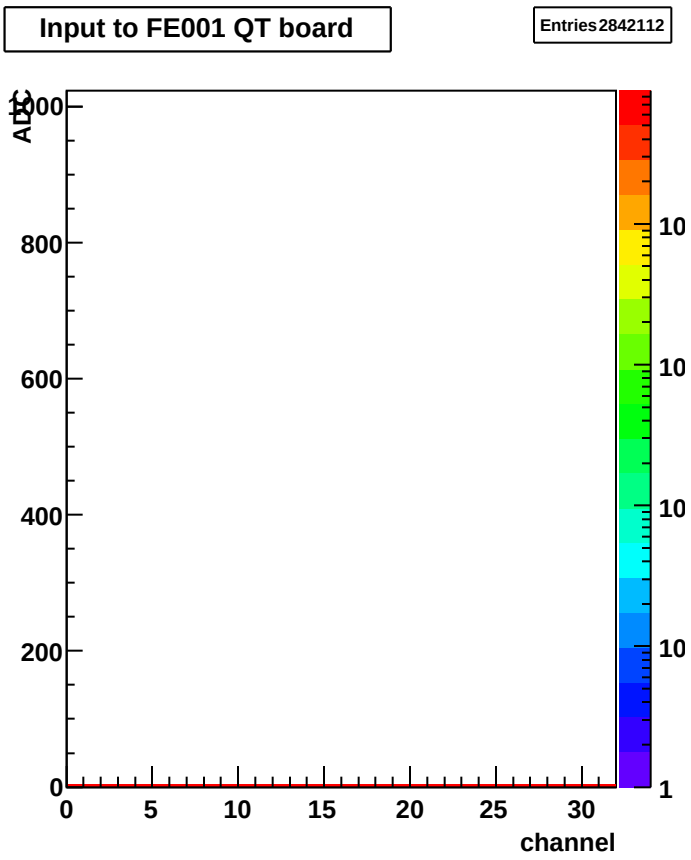

Input to FPD L2 DSM
Entries 266448
CL bits
383
180
5932
2468
1086
4214
2268
1055
78670
83697
86495
SMALL
LARGE-S
LARGE-N

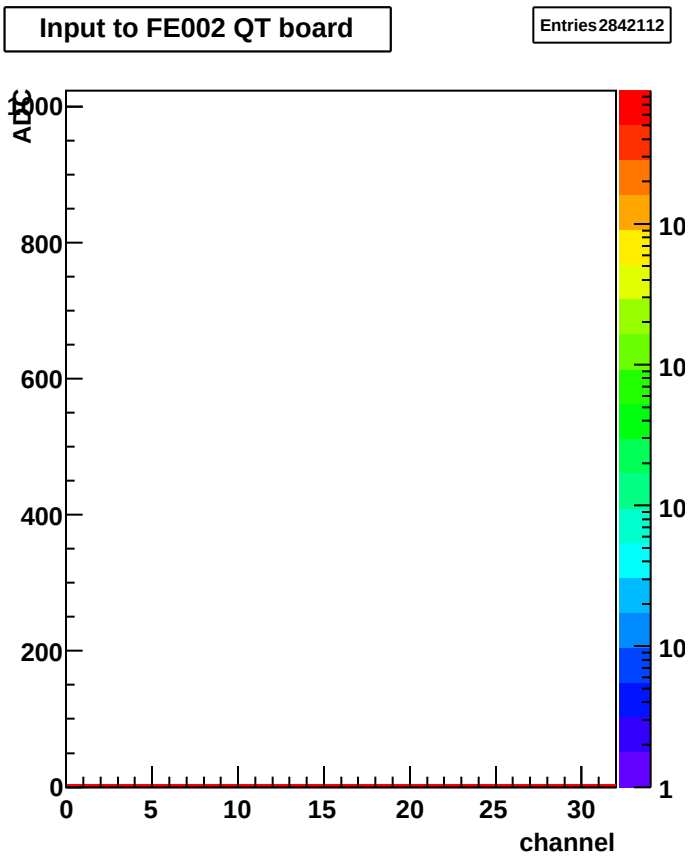

Input to FPD L2 DSM
Entries 9
CL bits - simulated
SMALL
LARGE-S
LARGE-N

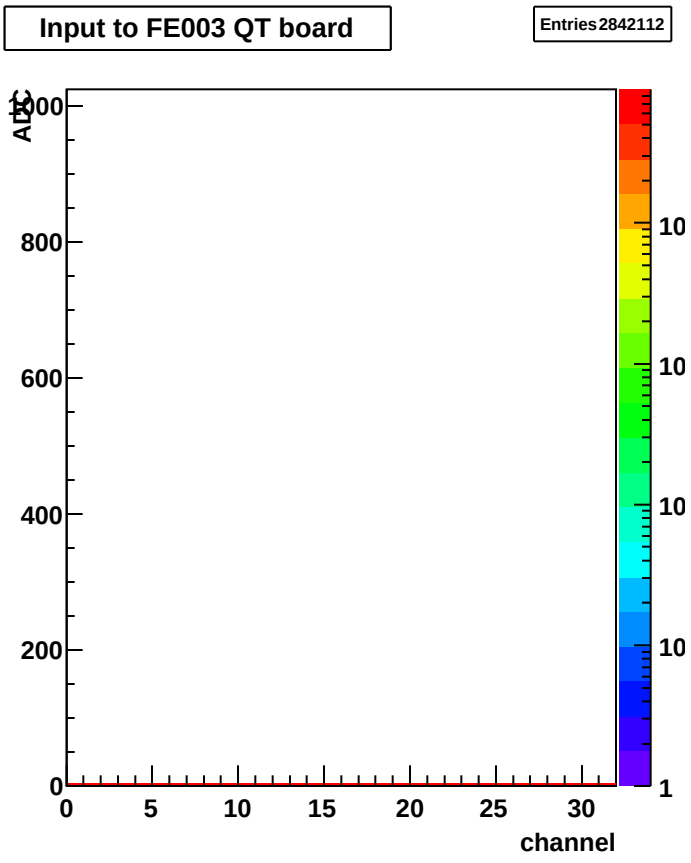

Input to FPD L2 DSM
Entries 266448
HT bits
1106
3818
1471
2285
5295
2152
1014
80130
82846
86331
SMALL
LARGE-S
LARGE-N

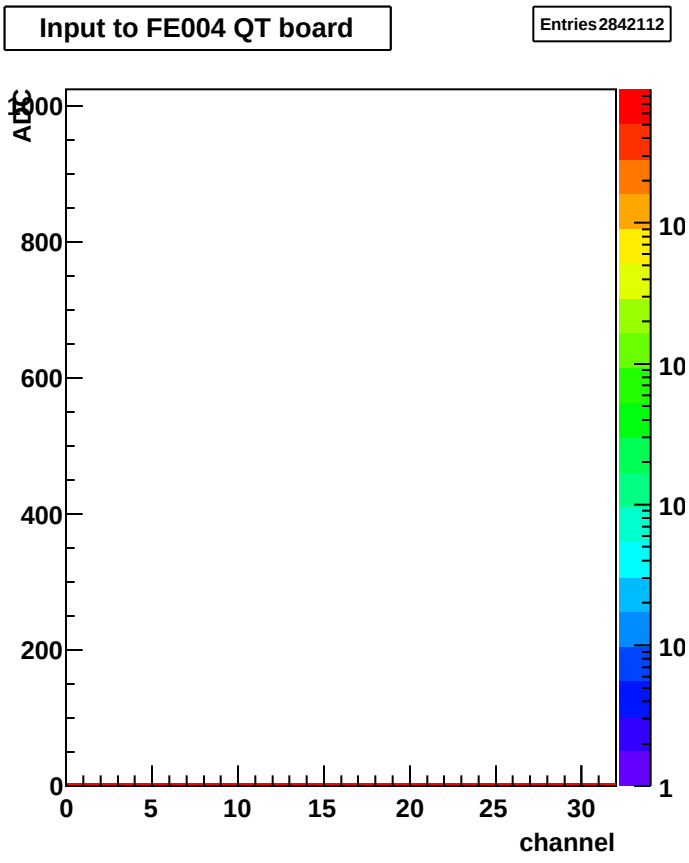

Input to FPD L2 DSM
Entries 52
HT bits - simulated
SMALL
LARGE-S
LARGE-N

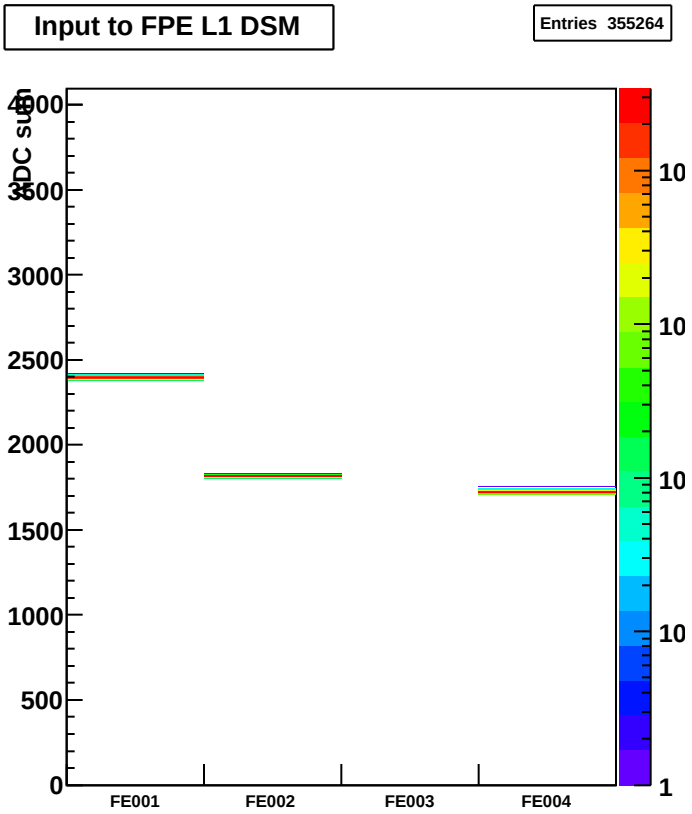

Input to FPD L2 DSM
Entries 532896
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

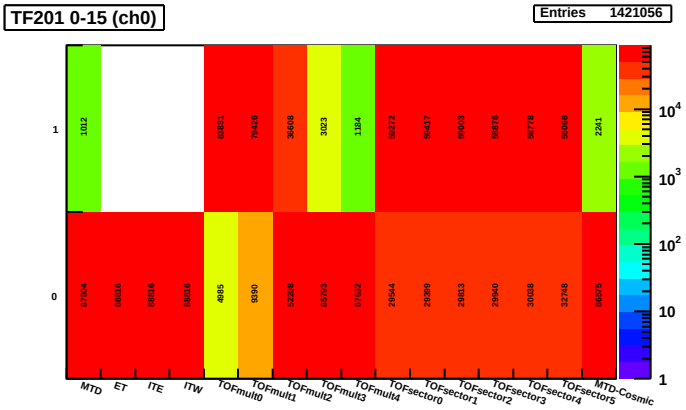

Input to FE001 QT board
Entries 2842112
ADC
channel

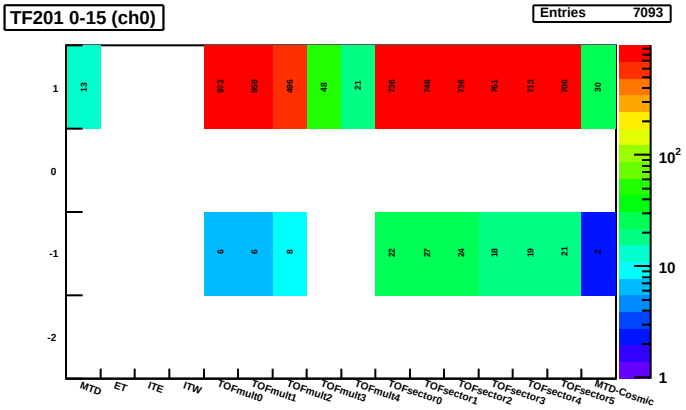

Input to FE002 QT board
Entries 2842112
ADC
channel

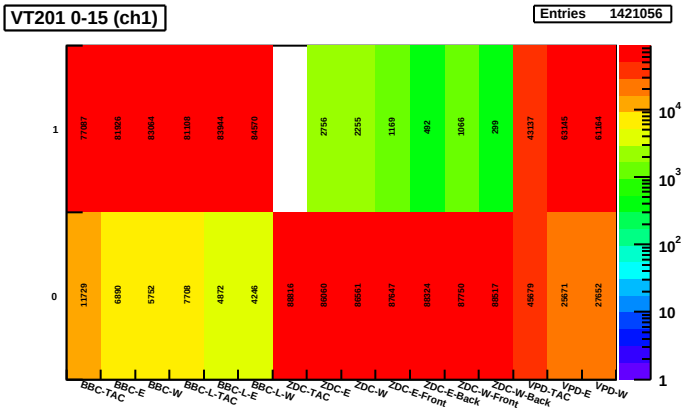

Input to FE003 QT board
Entries 2842112
ADC
channel

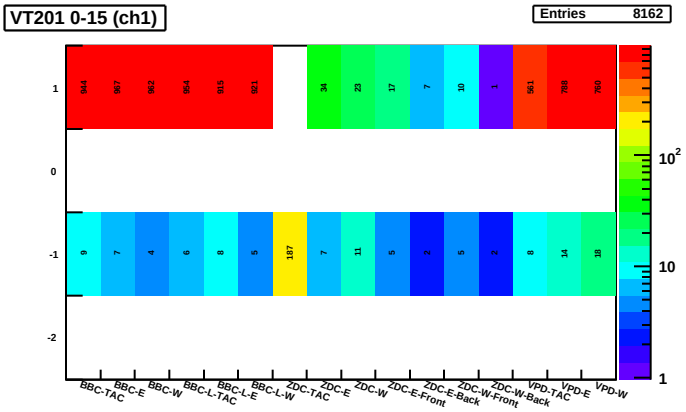

Input to FE004 QT board
Entries 2842112
ADC
channel

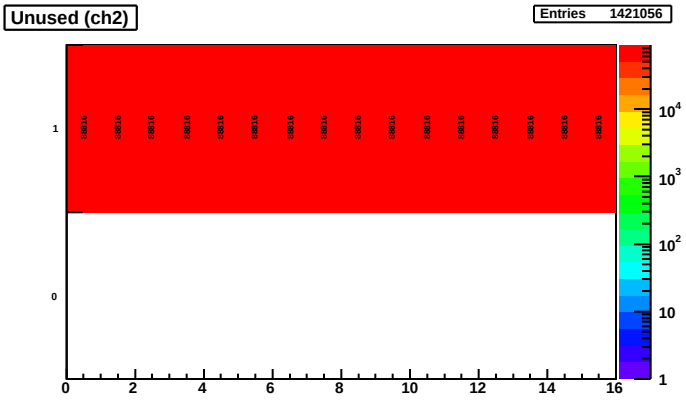

Input to FPE L1 DSM
Entries 355264
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

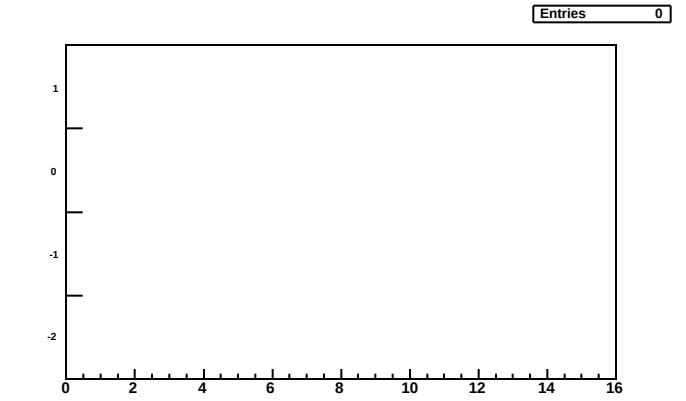

TF201 0-15 (ch0)
Entries 1421056
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

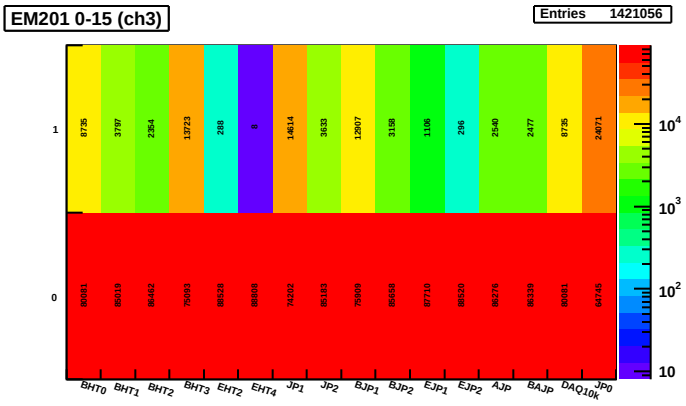

TF201 0-15 (ch0)
Entries 7093
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

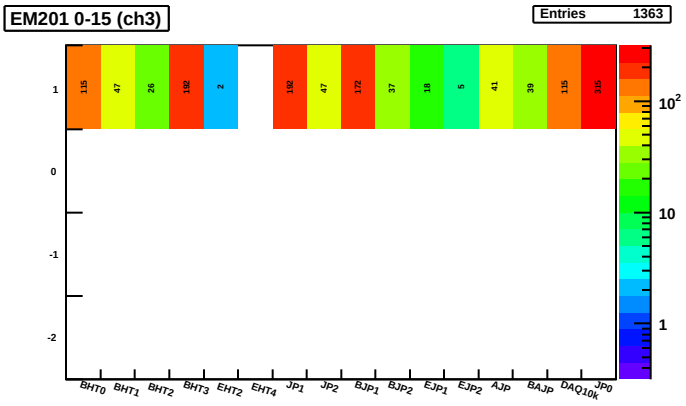

VT201 0-15 (ch1)
Entries 1421056
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 8162
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 1421056


Entries 0


EM201 0-15 (ch3)
Entries 1421056
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0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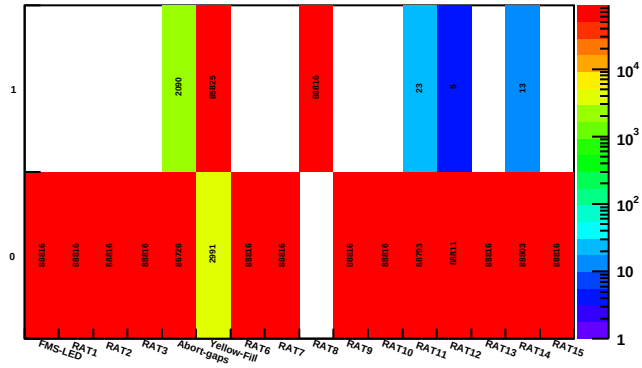

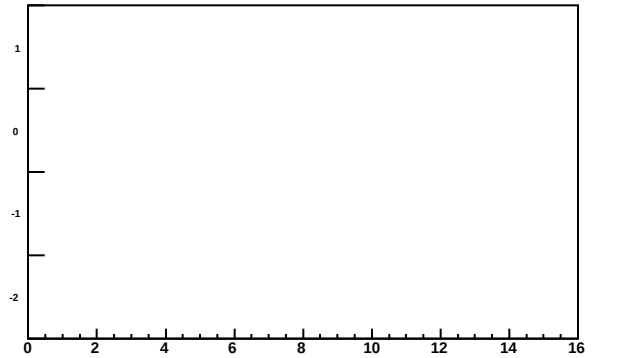

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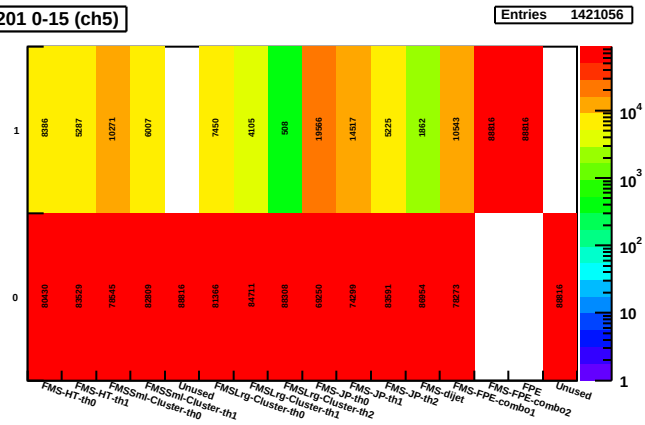

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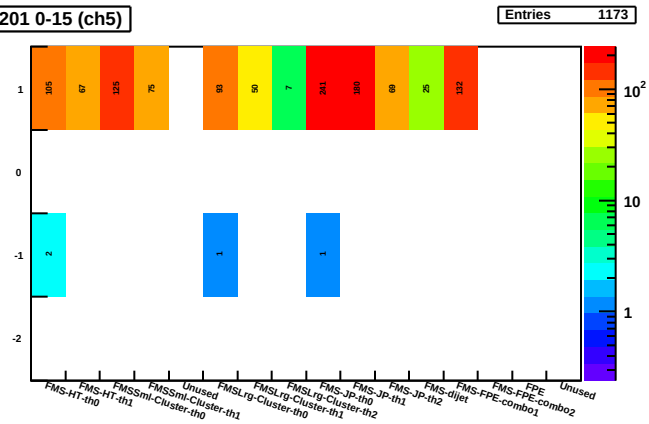

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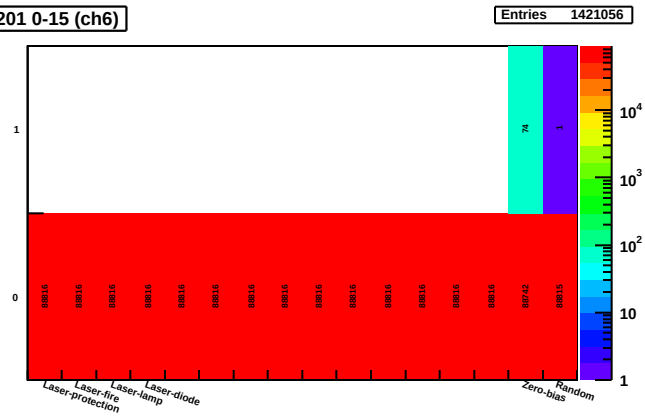

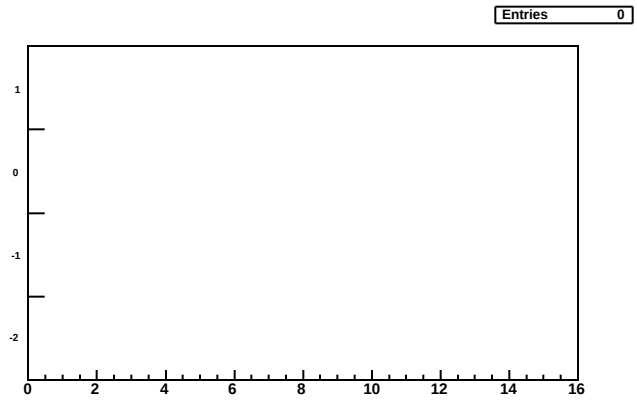
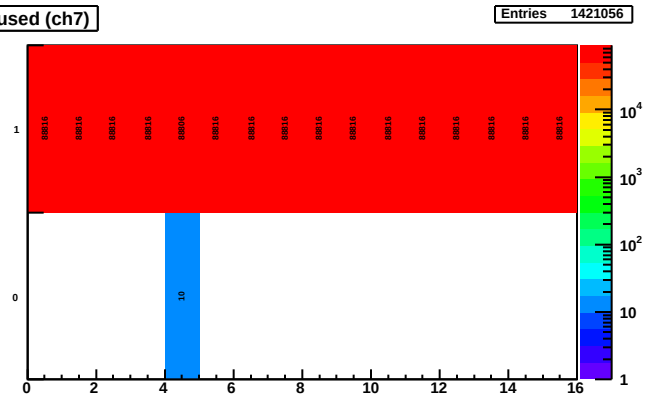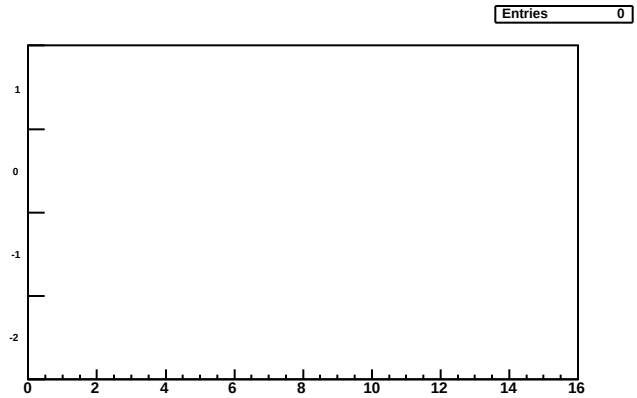
Unused (ch7)