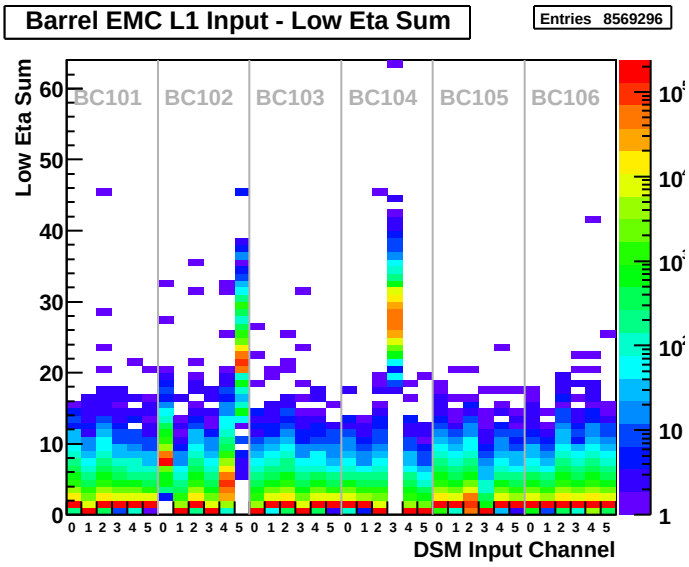
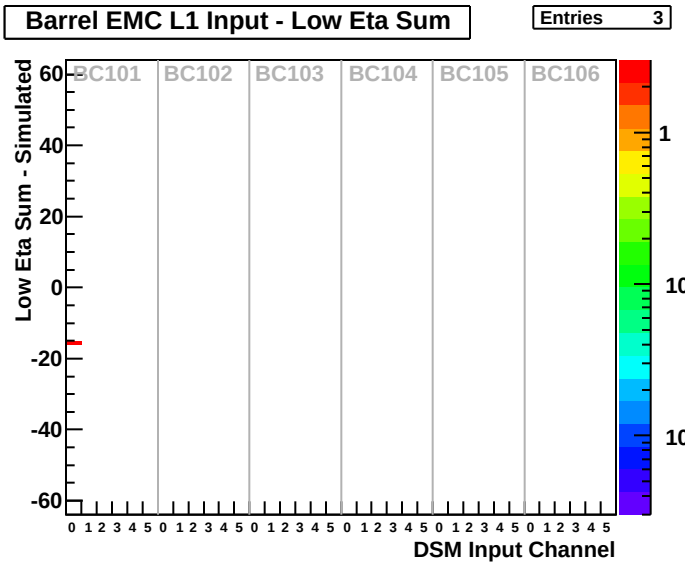
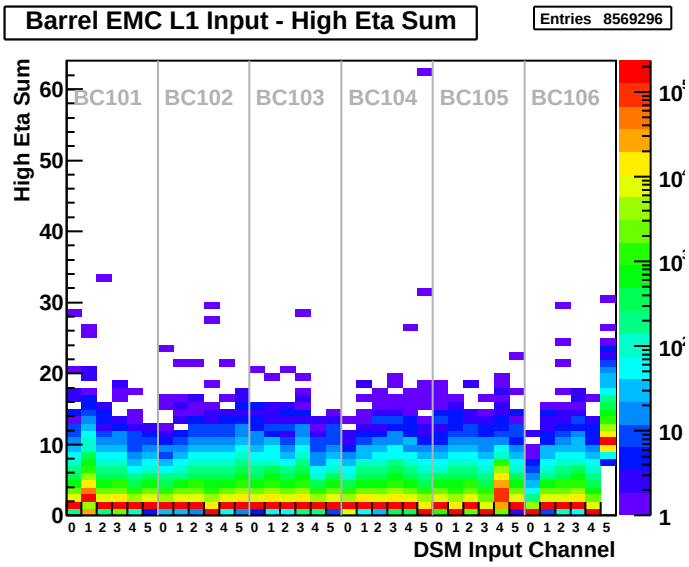
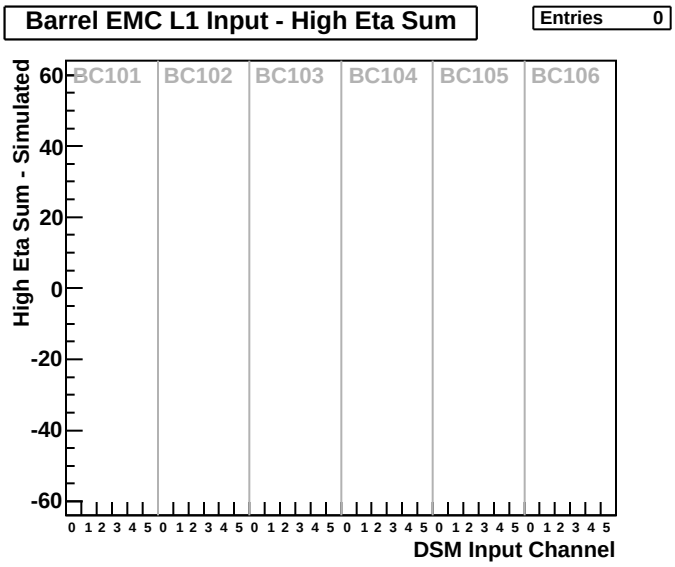
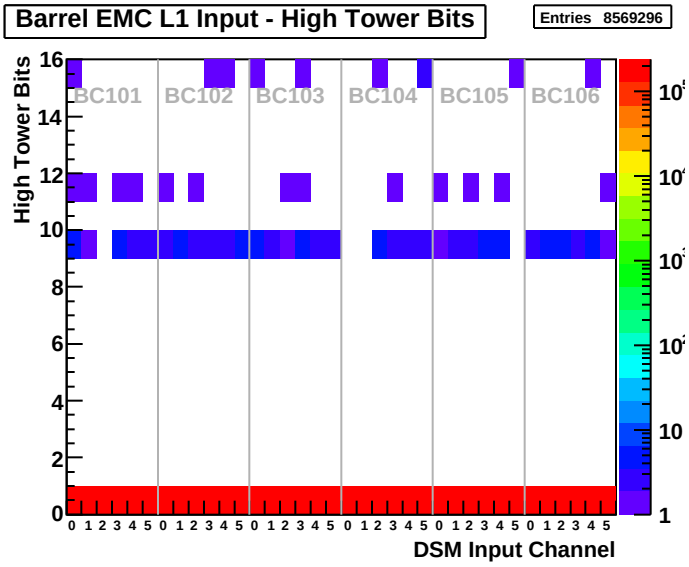
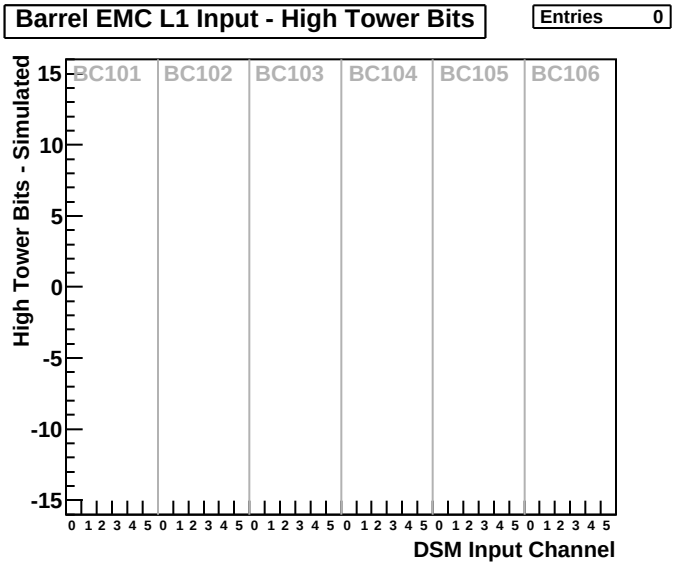

Barrel EMC L1 Input - Low Eta Sum
Entries 8569296
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

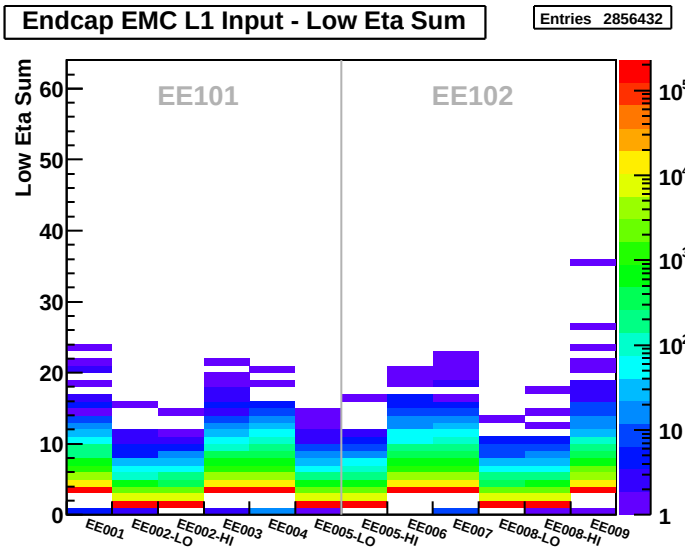

Barrel EMC L1 Input - Low Eta Sum
Entries 3
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

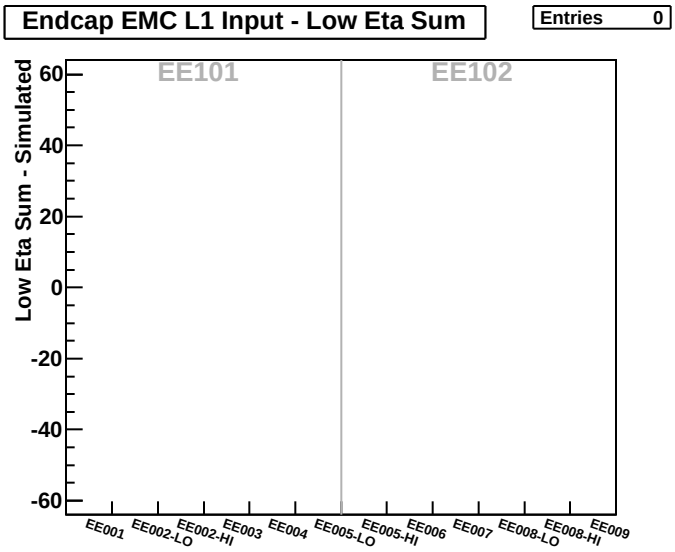

Barrel EMC L1 Input - High Eta Sum
Entries 8569296
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

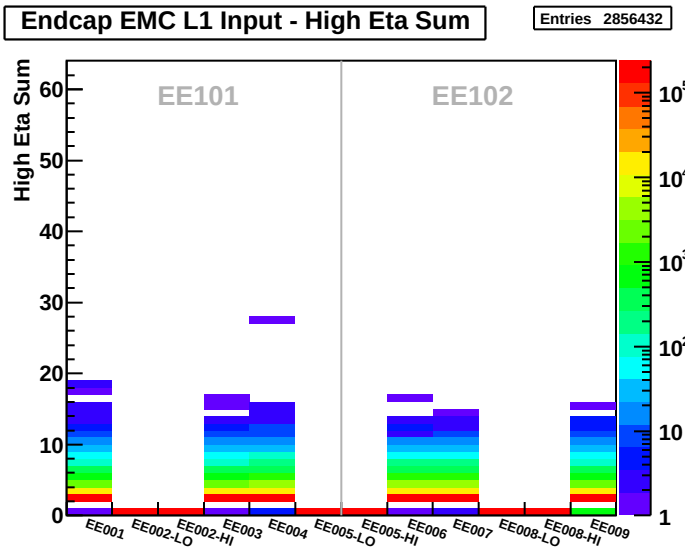

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

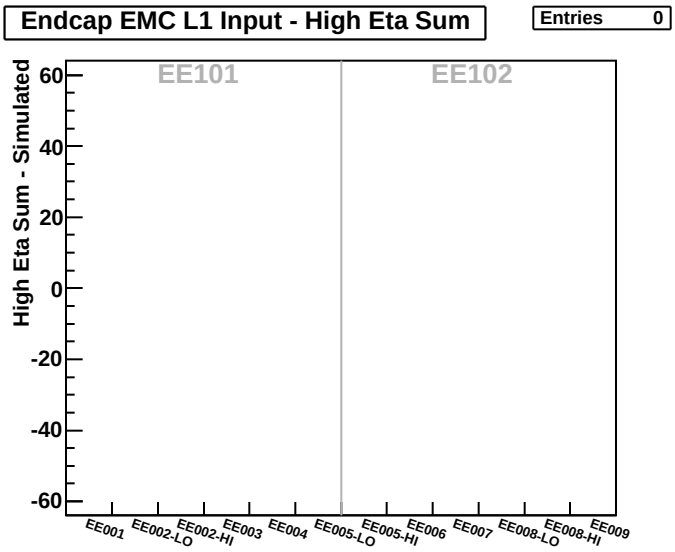

Barrel EMC L1 Input - High Tower Bits
Entries 8569296
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

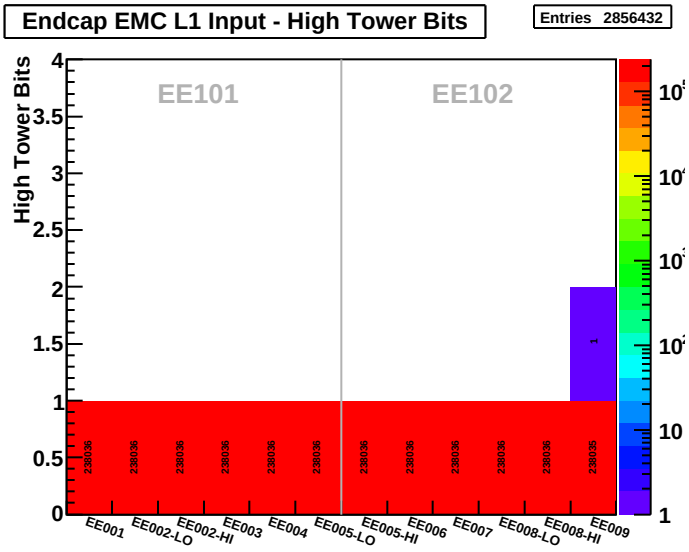

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

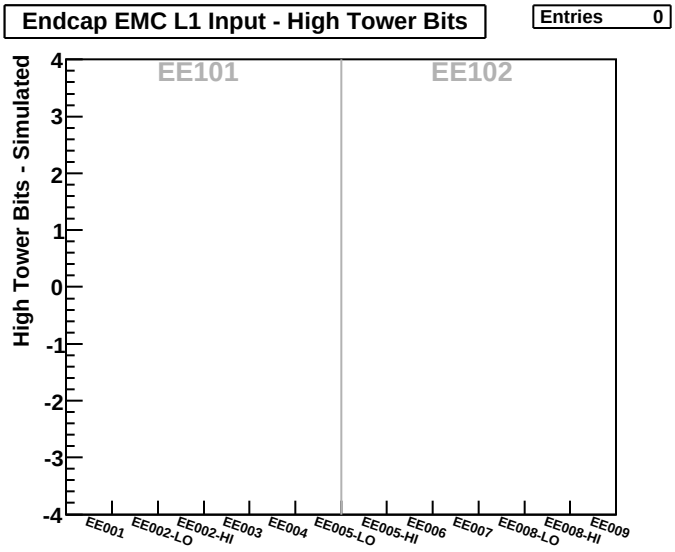

Endcap EMC L1 Input - Low Eta Sum
Entries 2856432
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

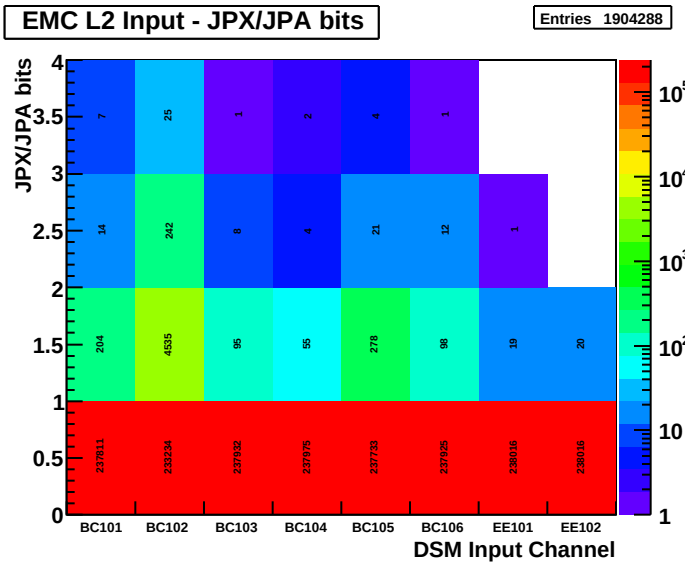

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

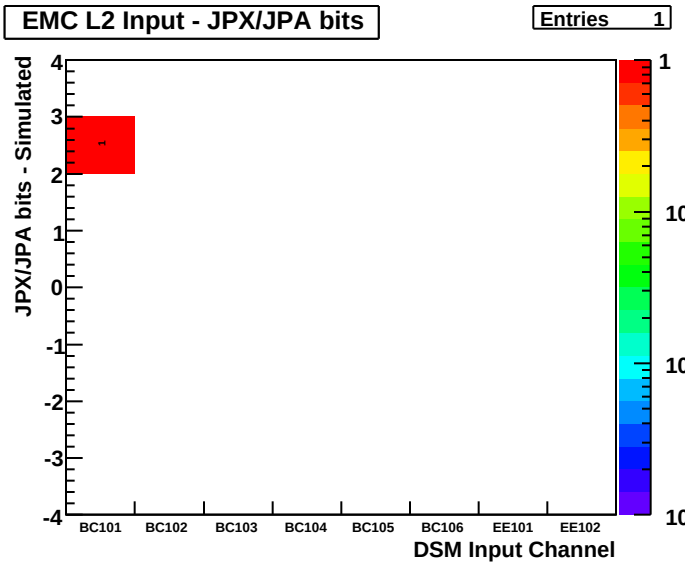

Endcap EMC L1 Input - High Eta Sum
Entries 2856432
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

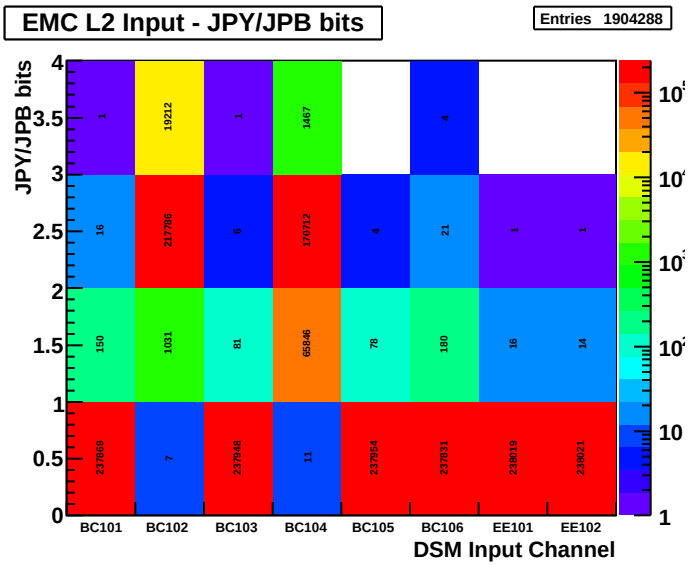

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

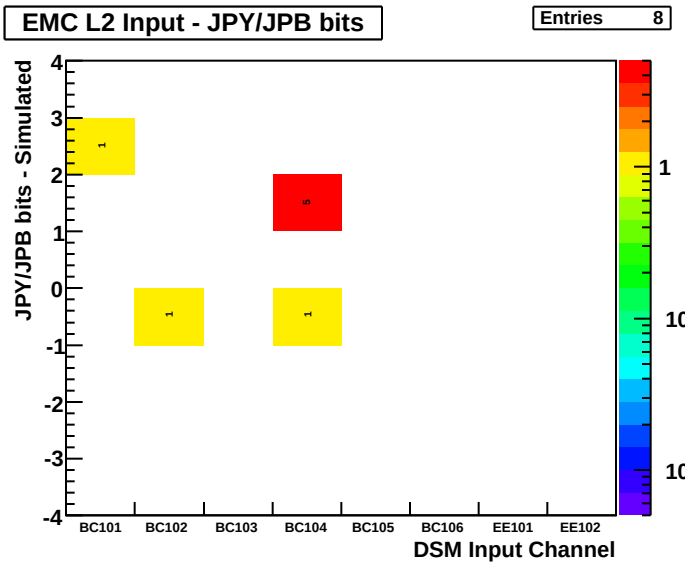

Endcap EMC L1 Input - High Tower Bits
Entries 2856432
High Tower Bits
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

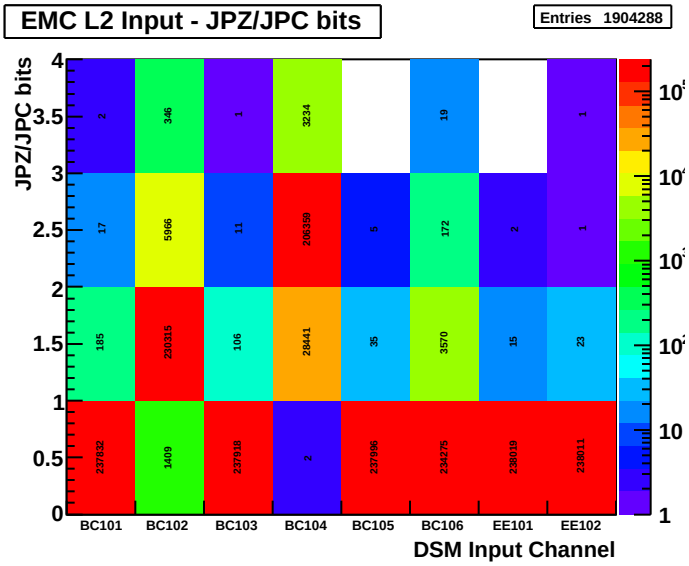

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

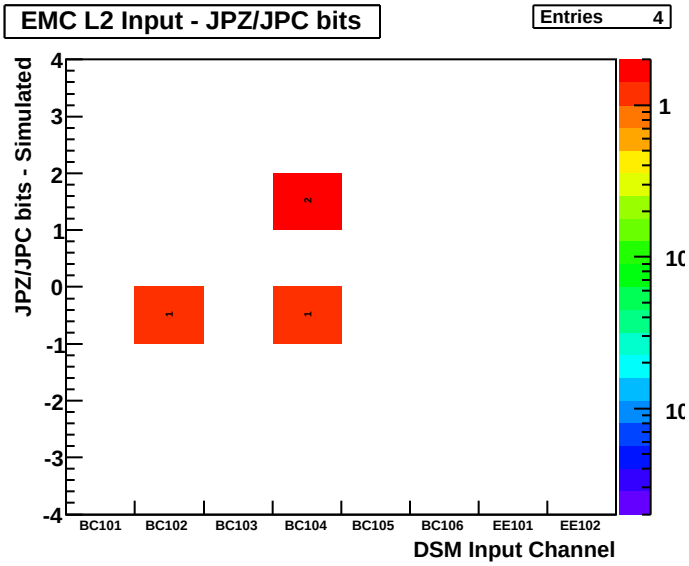

EMC L2 Input - JPX/JPA bits
Entries 1904288
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

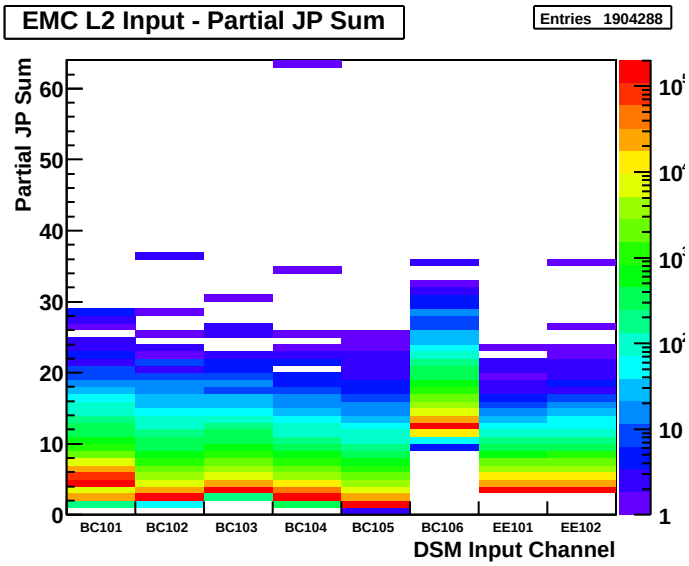

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

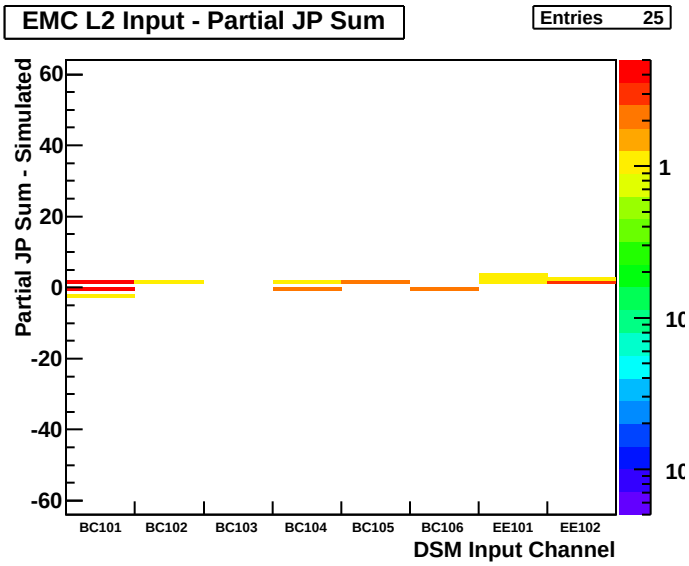

EMC L2 Input - JPY/JPB bits
Entries 1904288
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

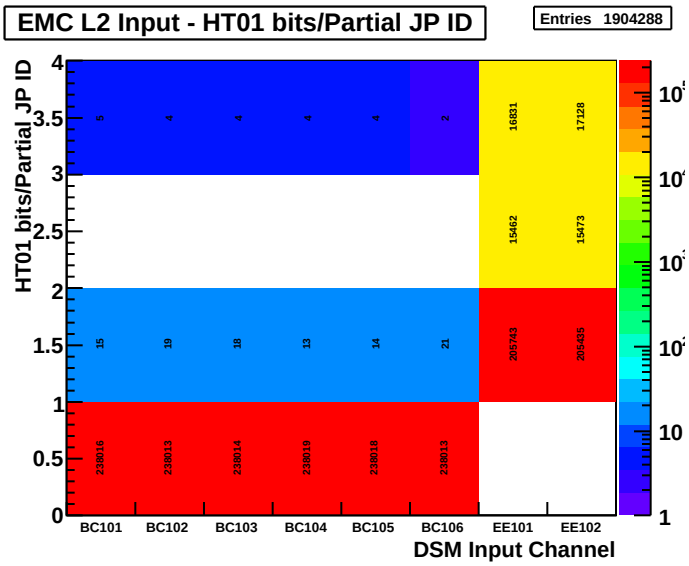

EMC L2 Input - JPY/JPB bits
Entries 8
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

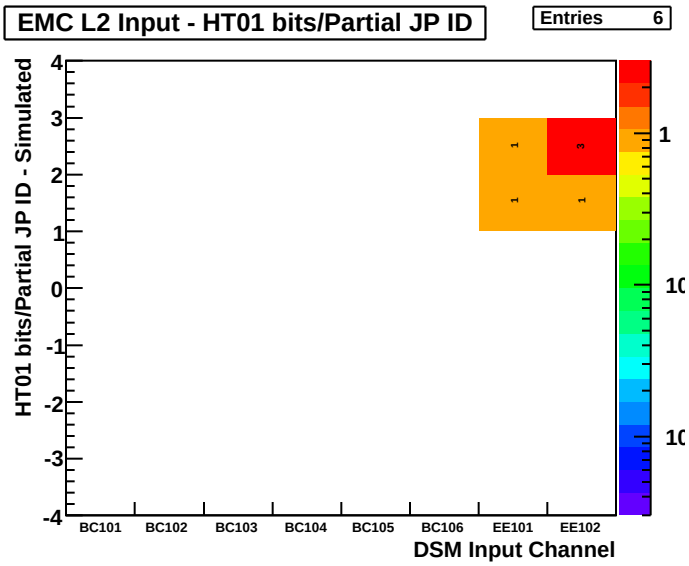

EMC L2 Input - JPZ/JPC bits
Entries 1904288
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

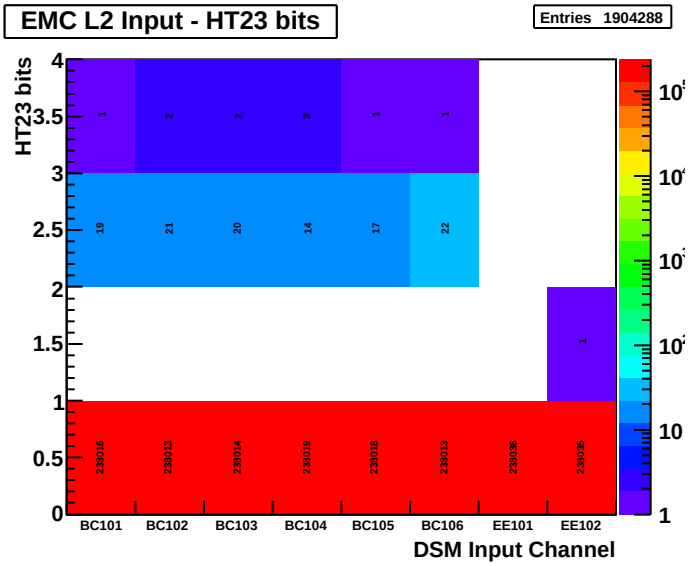

EMC L2 Input - JPZ/JPC bits
Entries 4
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

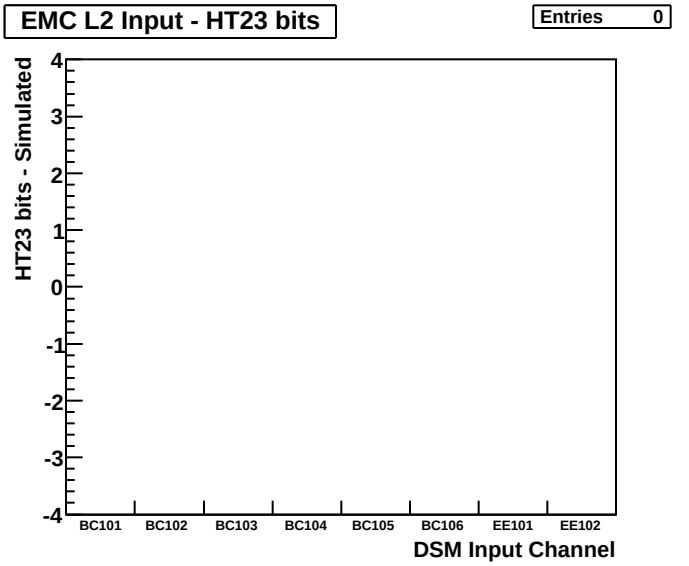

EMC L2 Input - Partial JP Sum
Entries 1904288
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

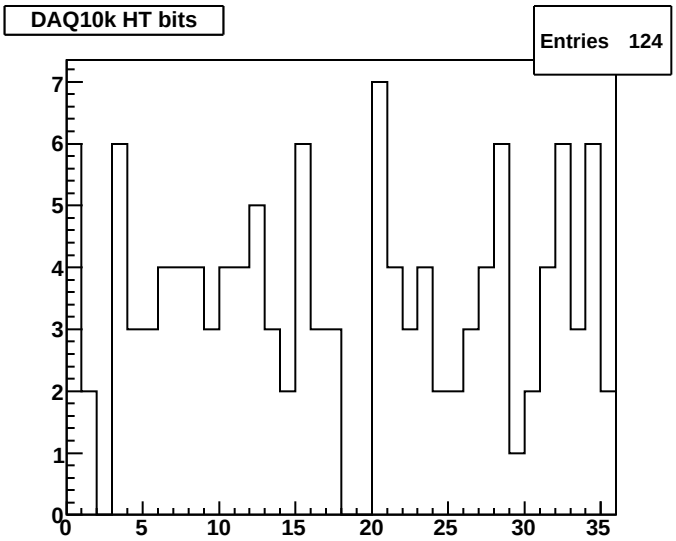

EMC L2 Input - Partial JP Sum
Entries 25
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

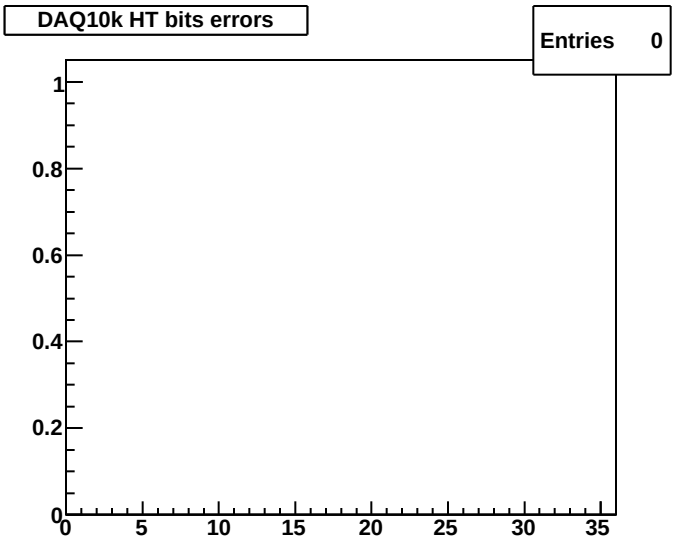

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1904288
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

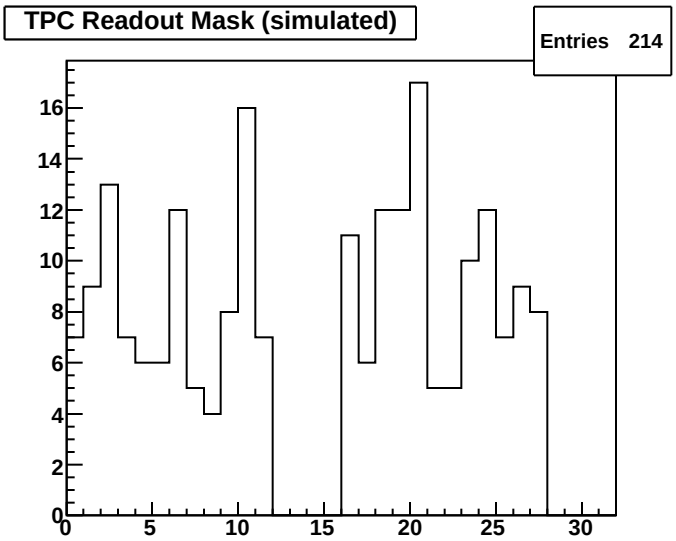

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

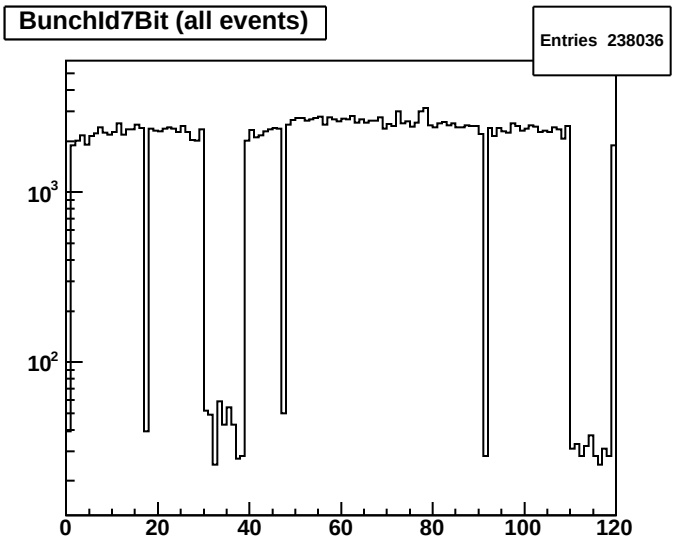

EMC L2 Input - HT23 bits
Entries 1904288
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

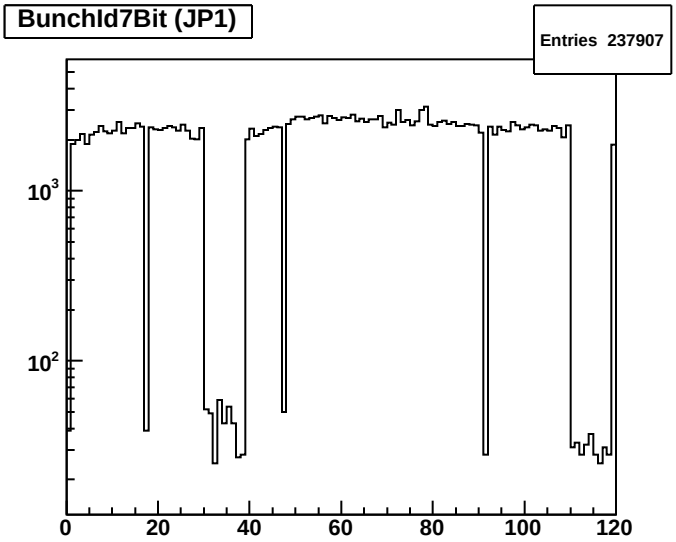

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

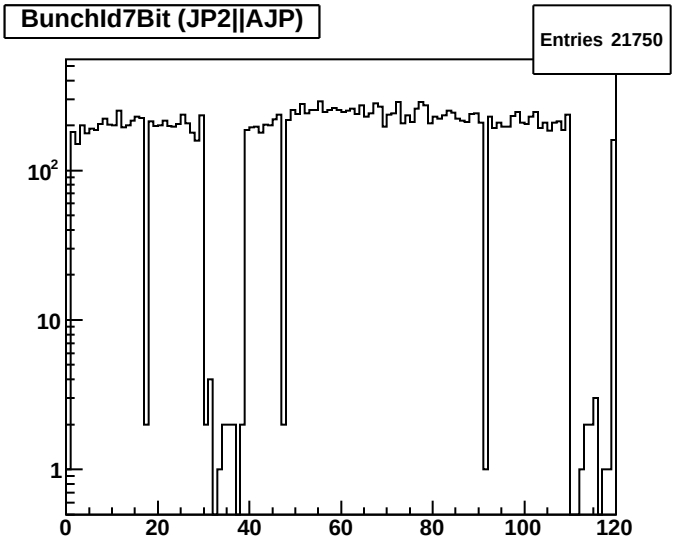

DAQ10k HT bits
Entries 124

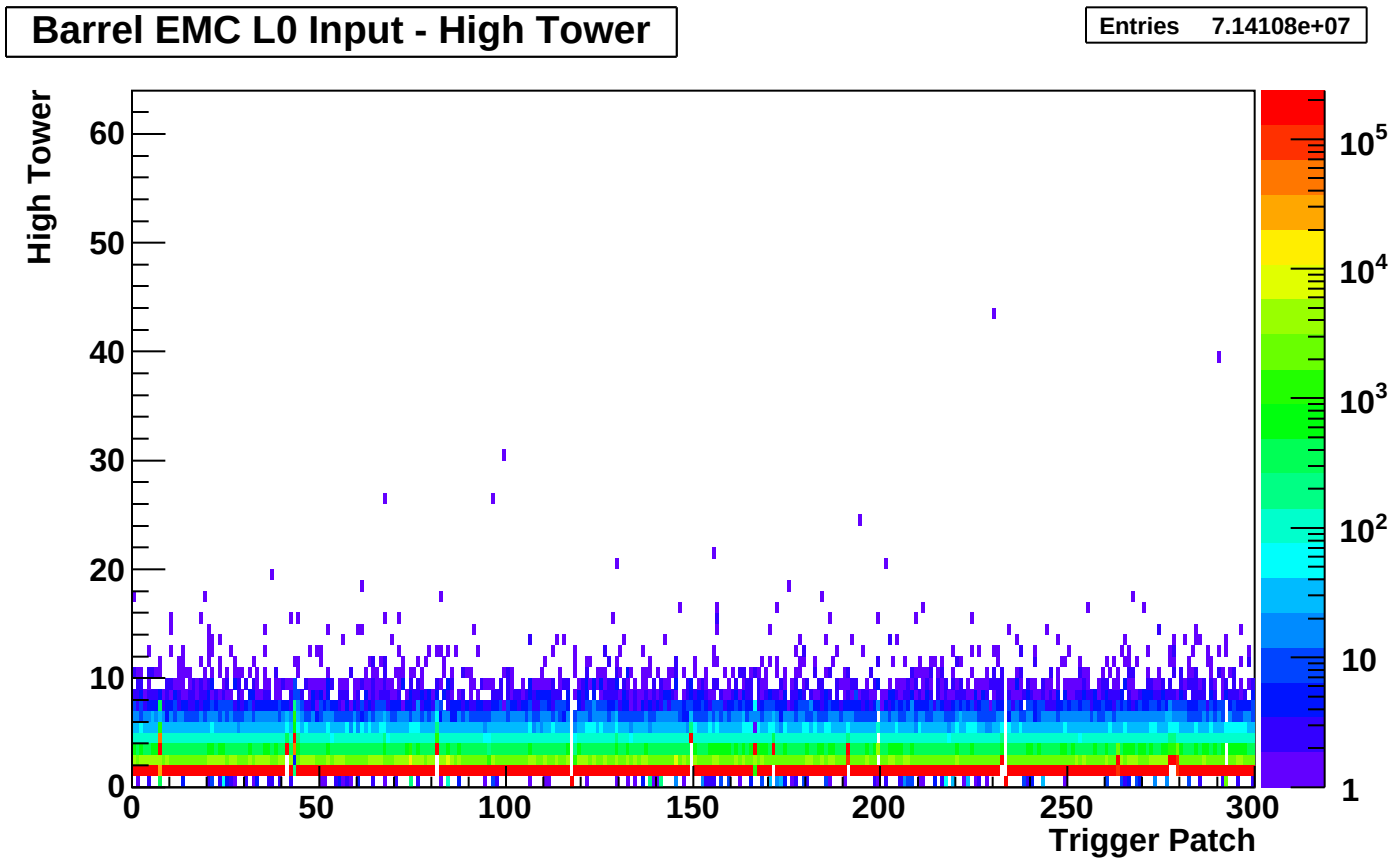

DAQ10k HT bits errors
Entries 0

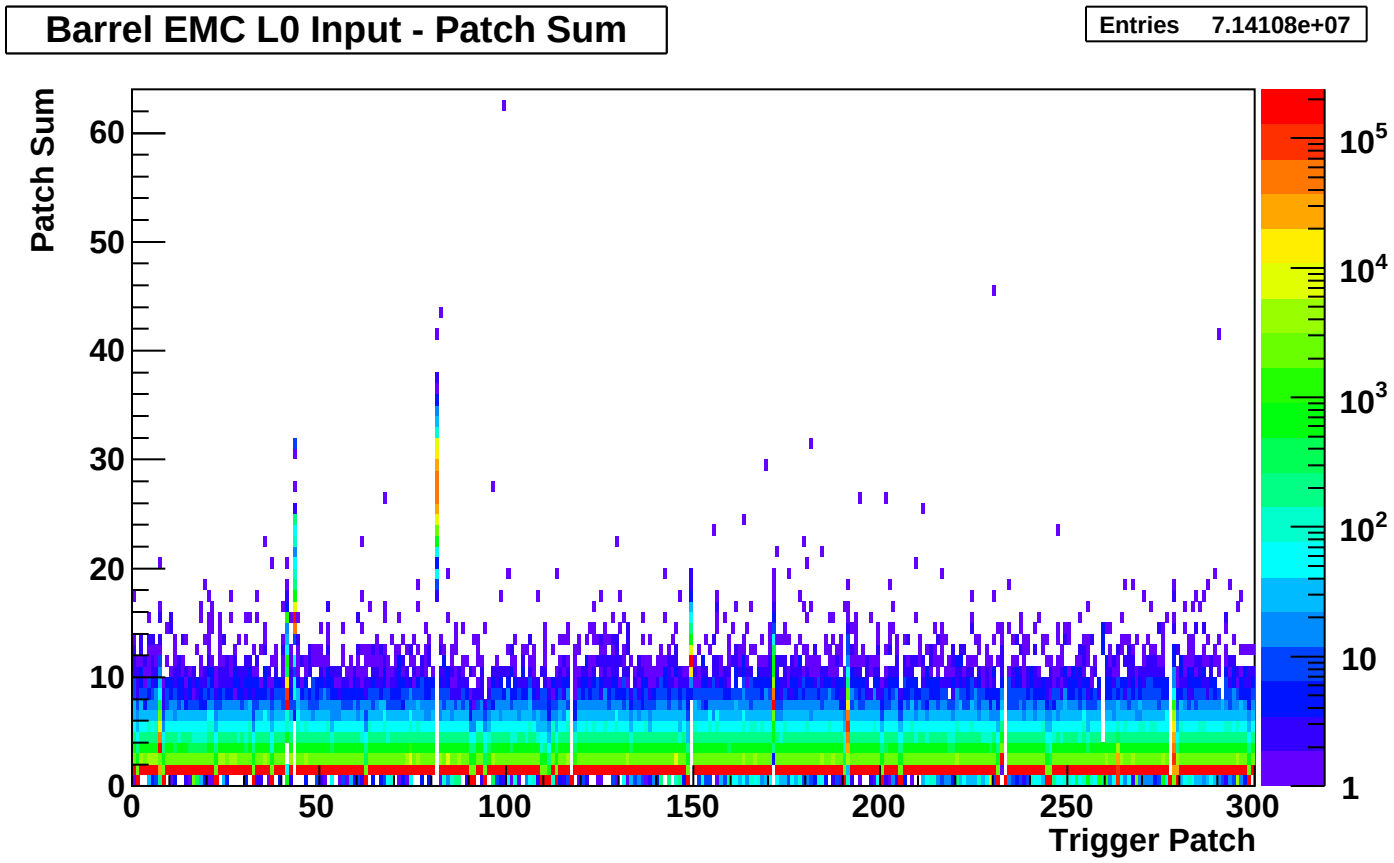

TPC Readout Mask (simulated)
Entries 214

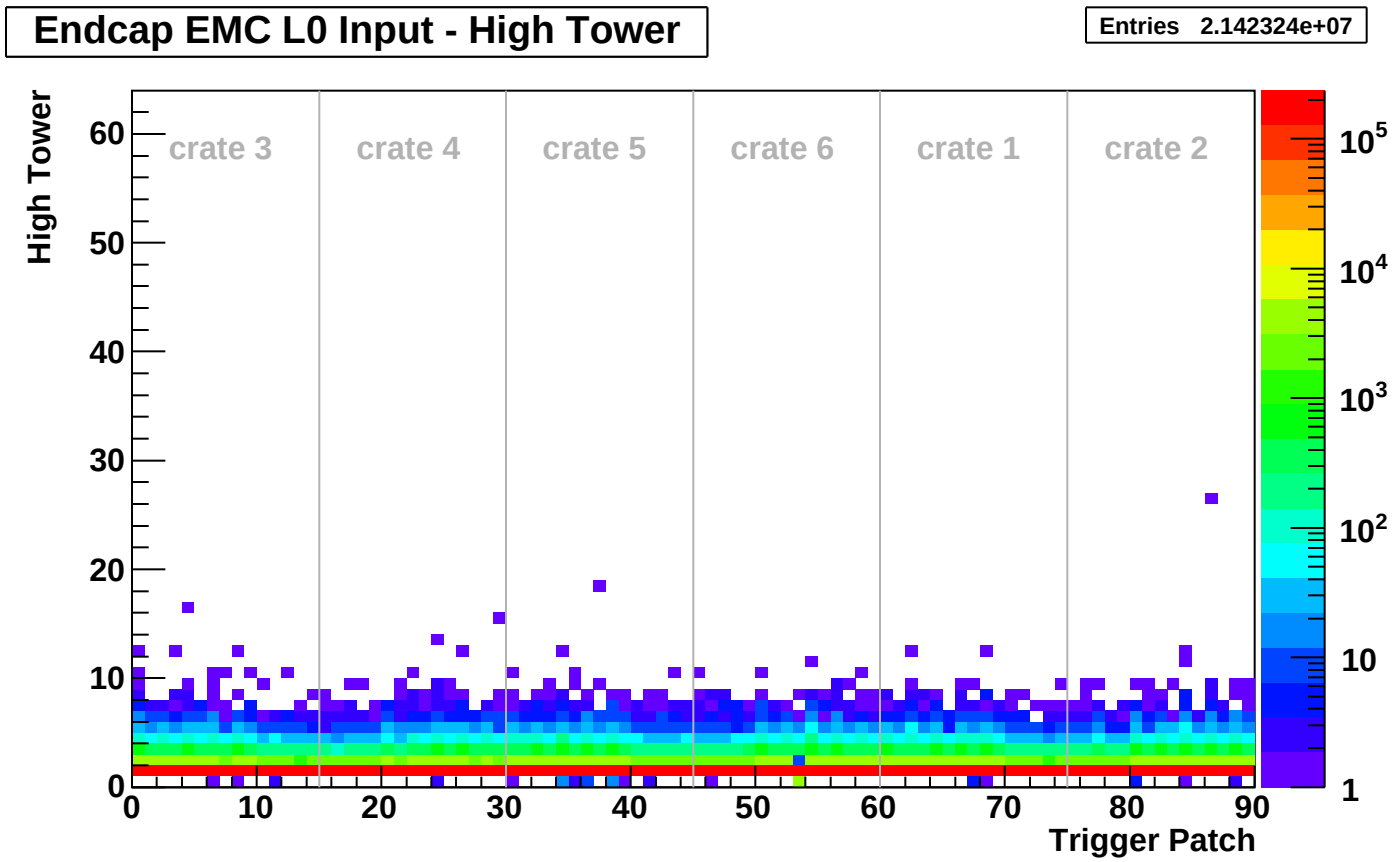

BunchId7Bit (all events)
Entries 238036

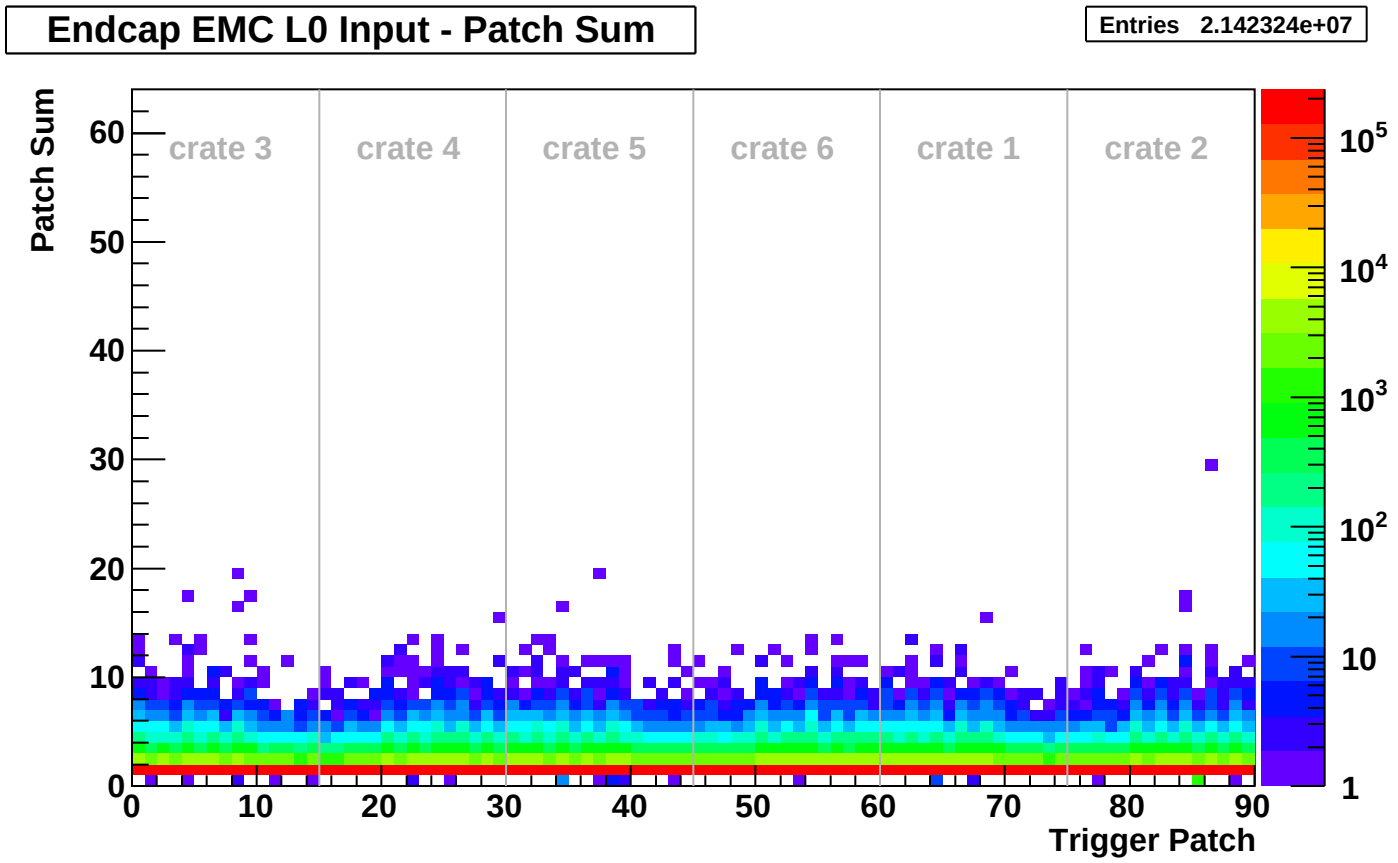

BunchId7Bit (JP1)
Entries 237907

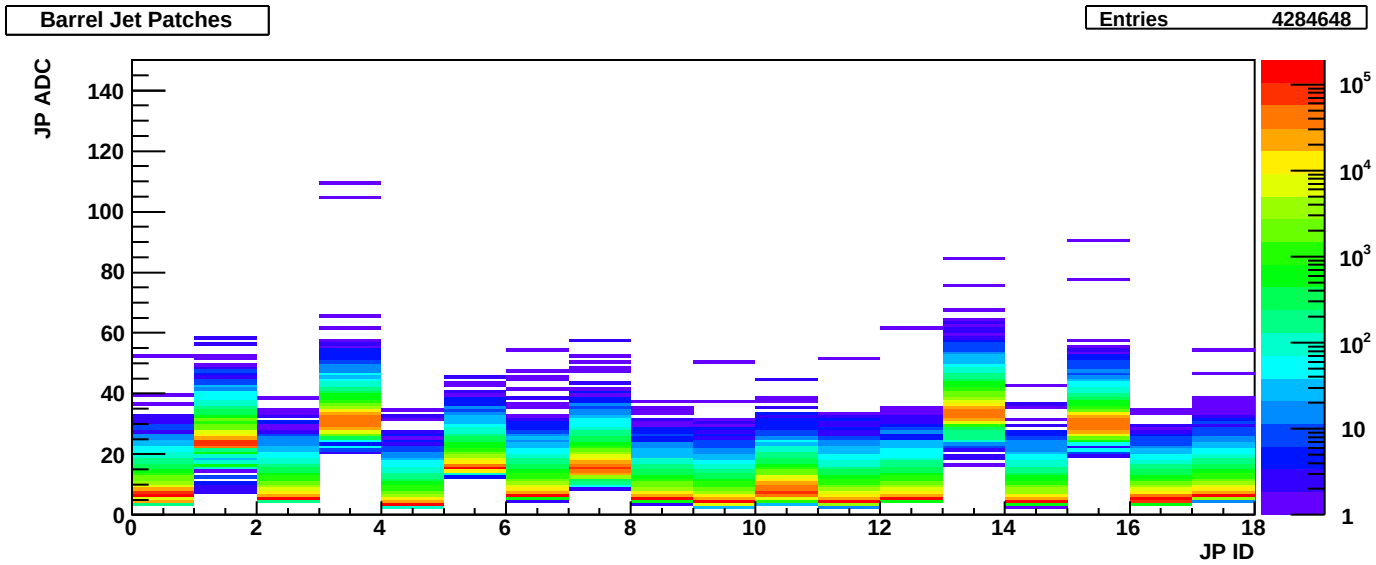

BunchId7Bit (JP2||AJP)
Entries 21750

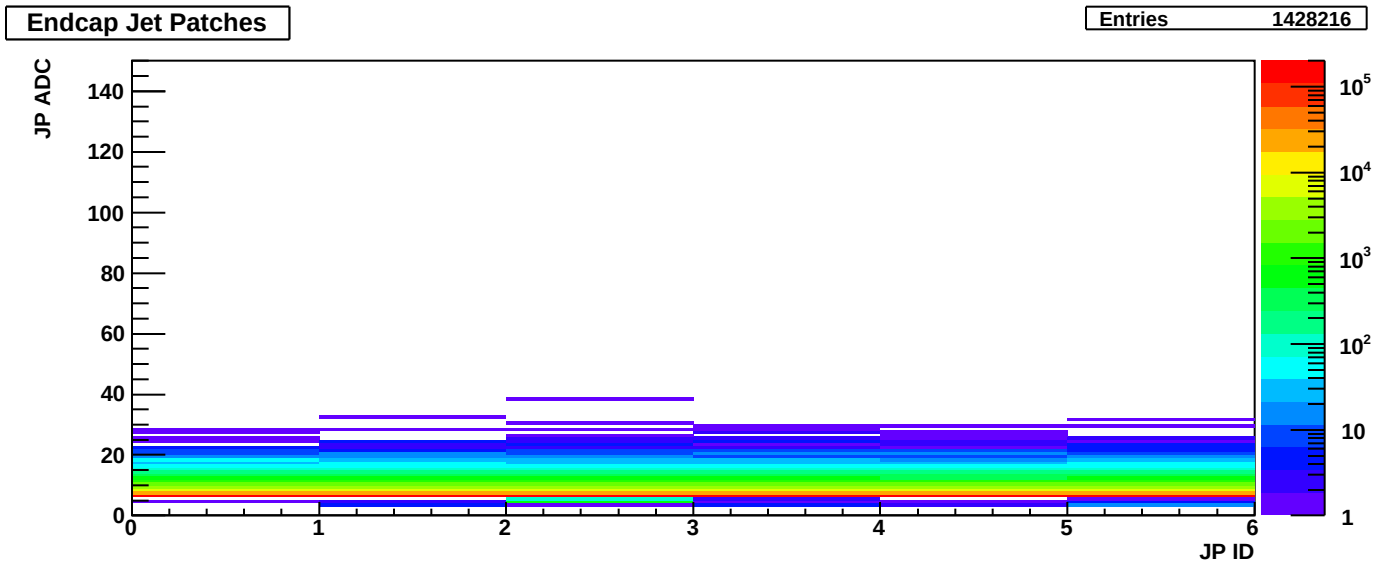

Barrel EMC L0 Input - High Tower
Entries 7.14108e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

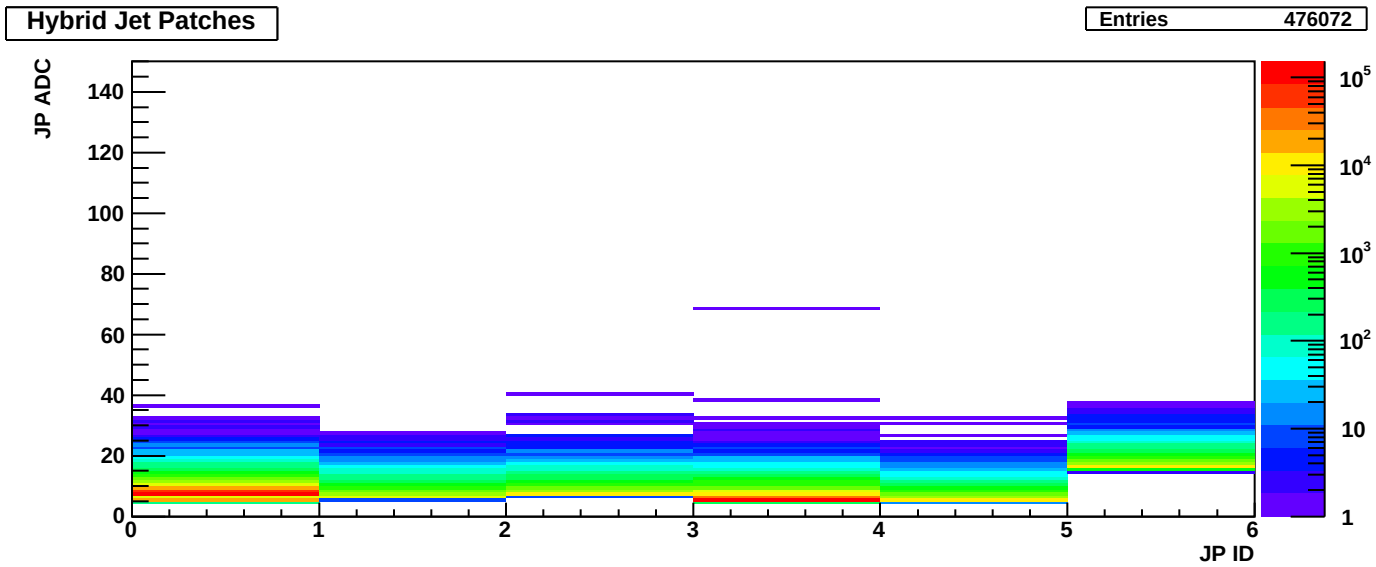

Barrel EMC L0 Input - Patch Sum
Entries 7.14108e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

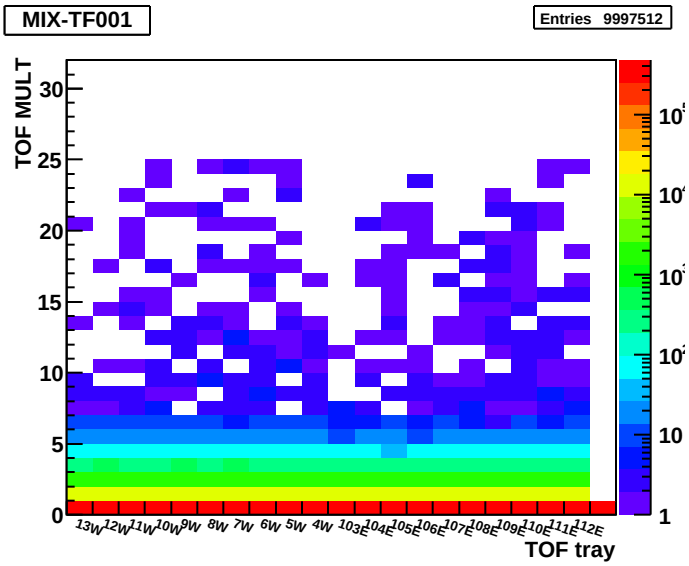

Endcap EMC L0 Input - High Tower
Entries 2.142324e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

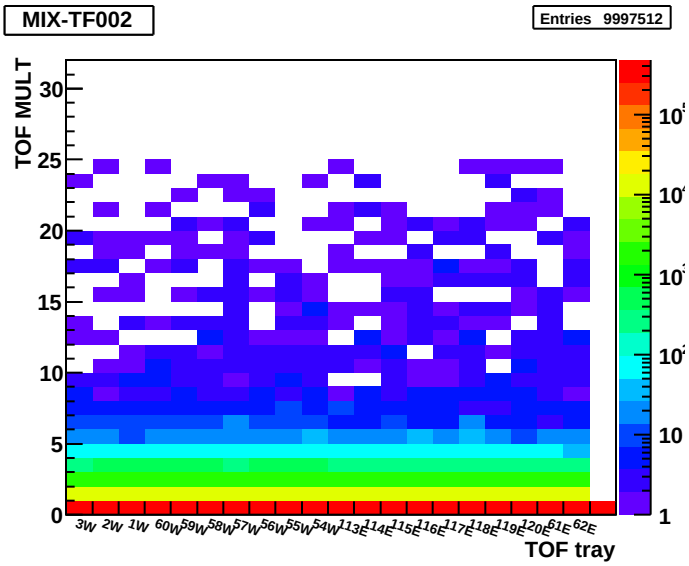

Endcap EMC L0 Input - Patch Sum
Entries 2.142324e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

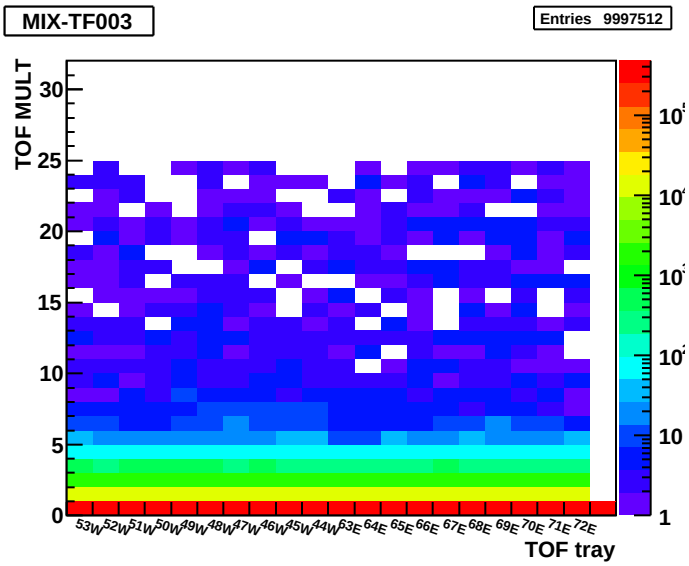

Barrel Jet Patches
Entries 4284648
JP ADC
JP ID

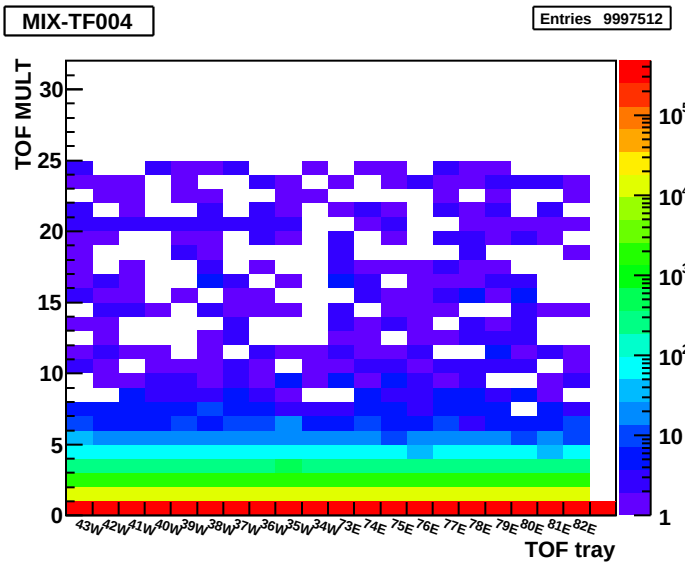

Endcap Jet Patches
Entries 1428216
JP ADC
JP ID

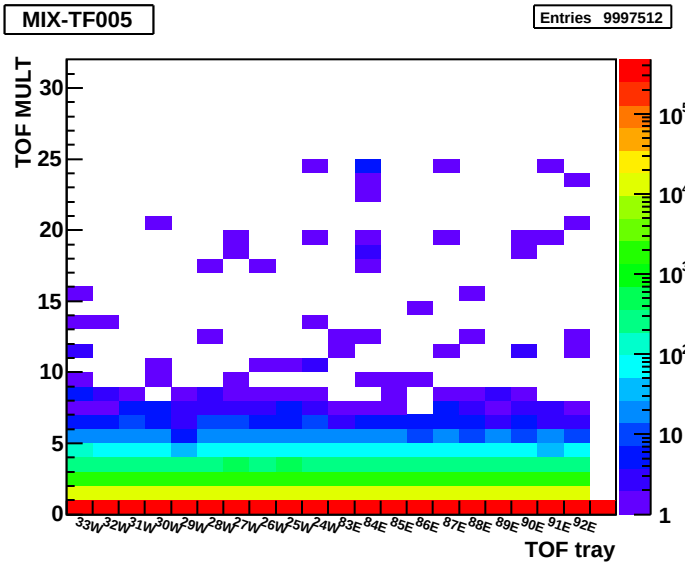

Hybrid Jet Patches
Entries 476072
JP ADC
JP ID

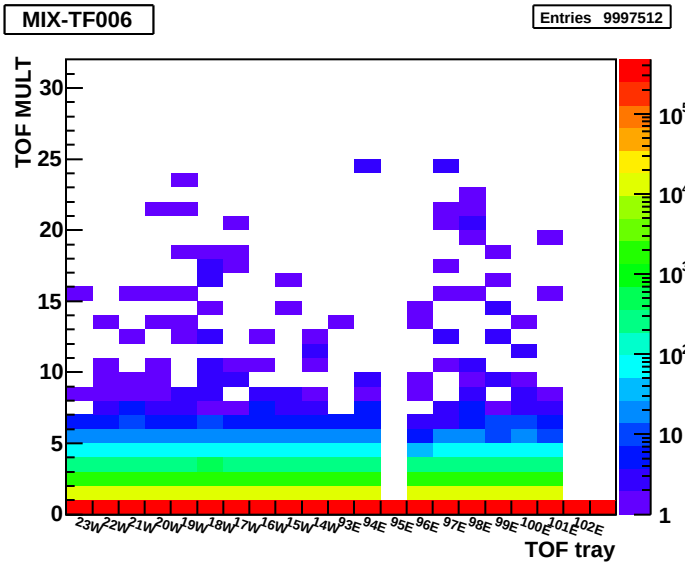

MIX-TF001
Entries 9997512
TOF MULT
TOF tray

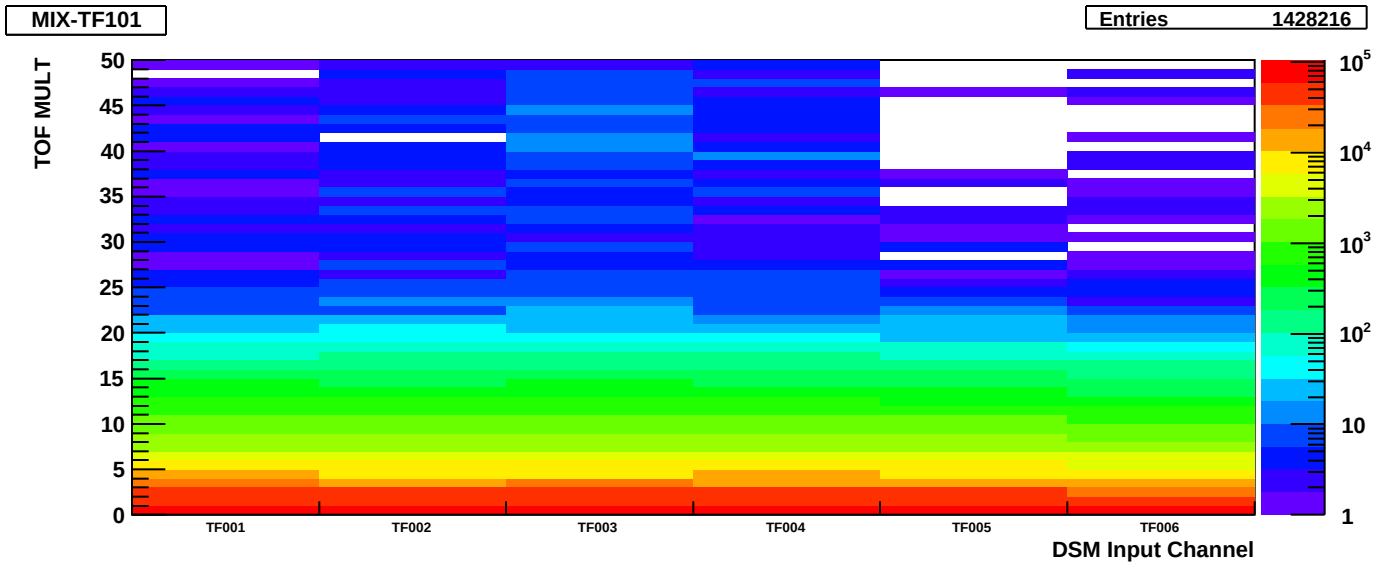

MIX-TF002
Entries 9997512
TOF MULT
TOF tray

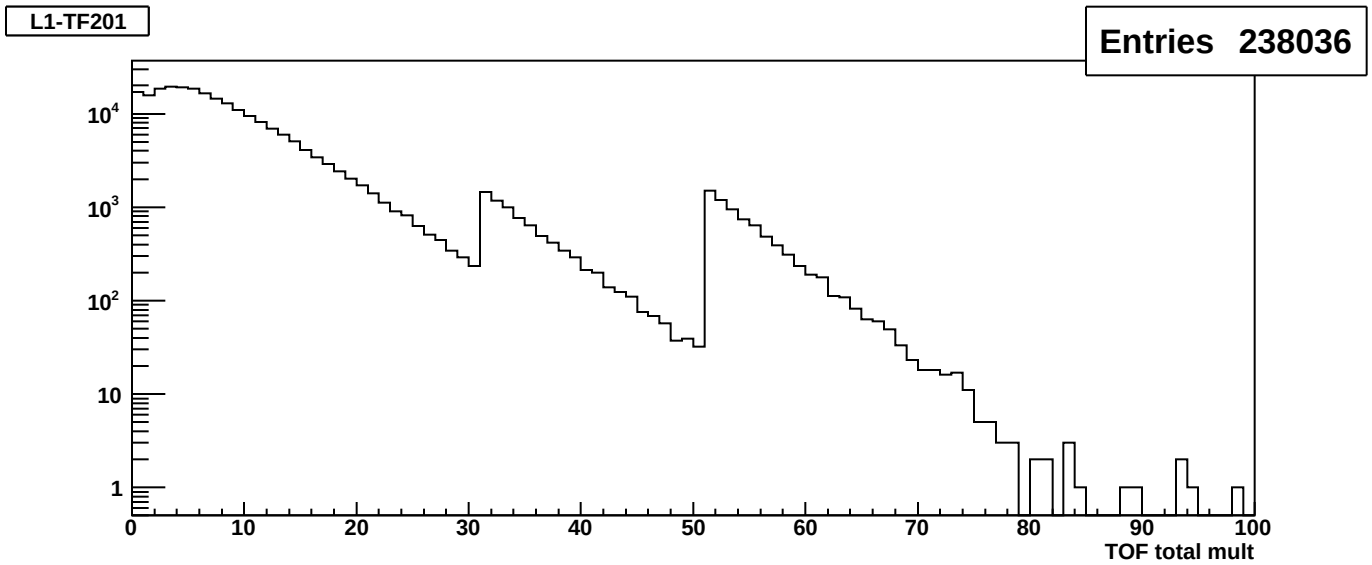

MIX-TF003
Entries 9997512
TOF MULT
TOF tray

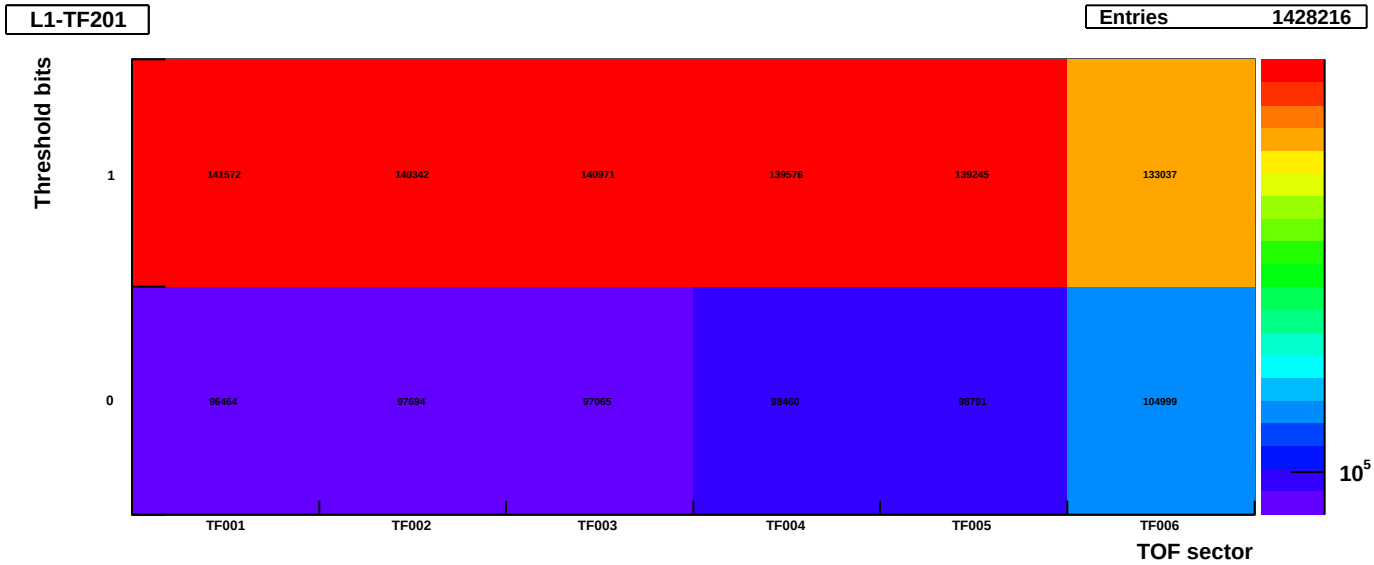

MIX-TF004
Entries 9997512
TOF MULT
TOF tray

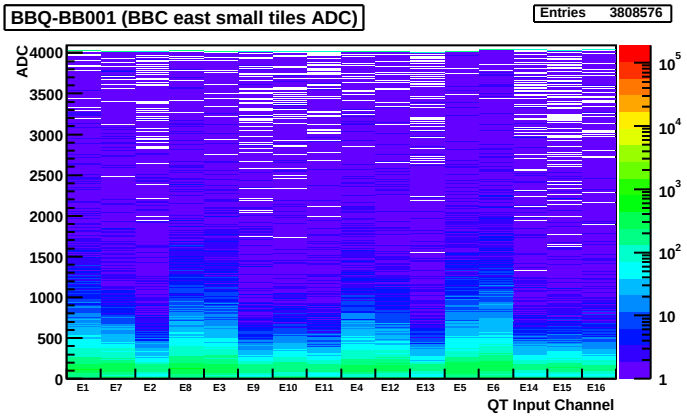

MIX-TF005
Entries 9997512
TOF MULT
TOF tray

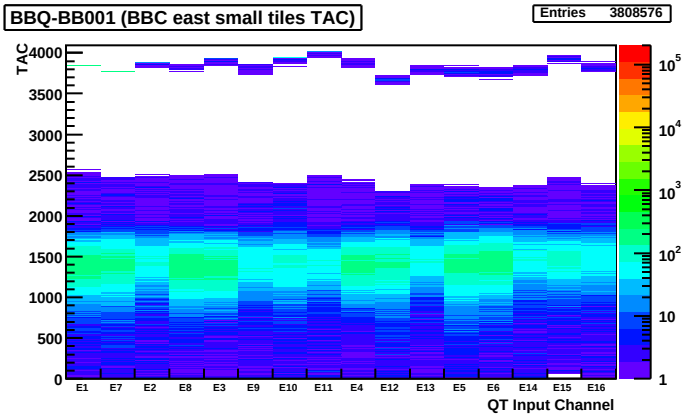

MIX-TF006
Entries 9997512
TOF MULT
TOF tray

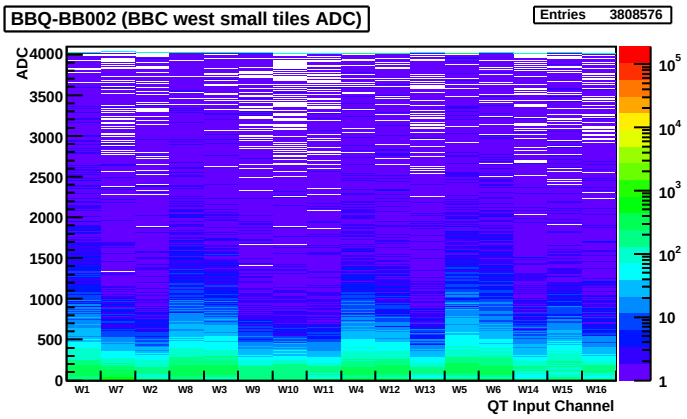

MIX-TF101
Entries 1428216
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

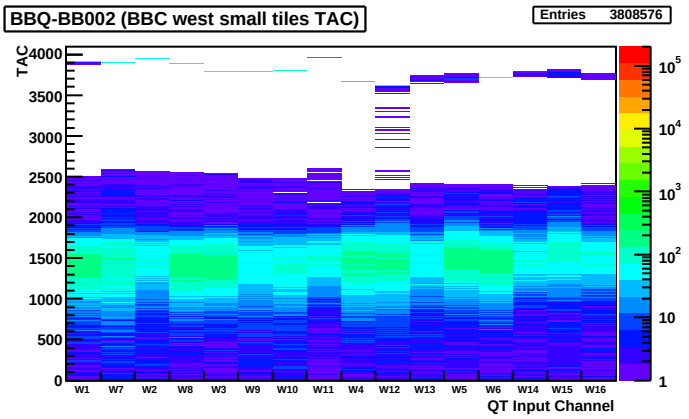

L1-TF201
Entries 238036
TOF total mult

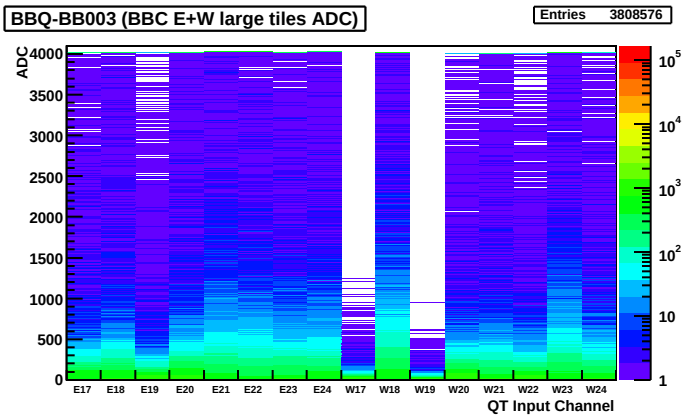

L1-TF201
Entries 1428216
Threshold bits
141572
140342
140971
139576
139245
133037
96464
97694
97065
98460
98791
104999
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

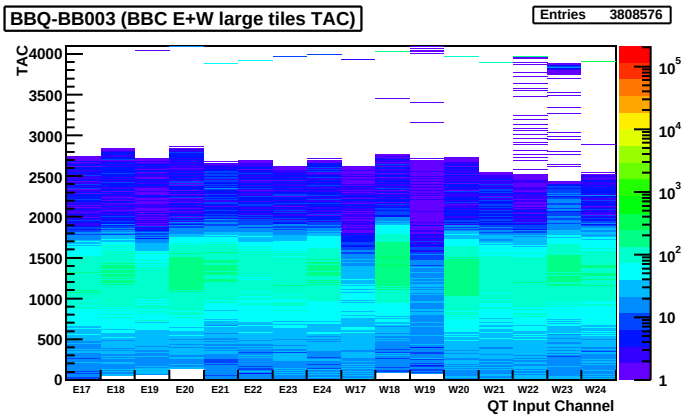

BBQ-BB001 (BBC east small tiles ADC)
Entries 3808576
ADC
QT Input Channel

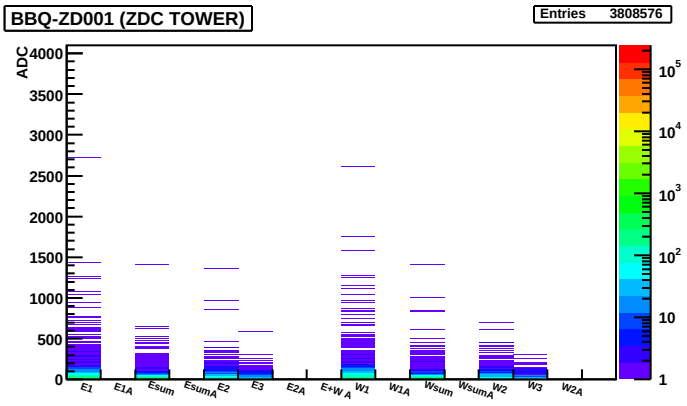

BBQ-BB001 (BBC east small tiles TAC)
Entries 3808576
TAC
QT Input Channel

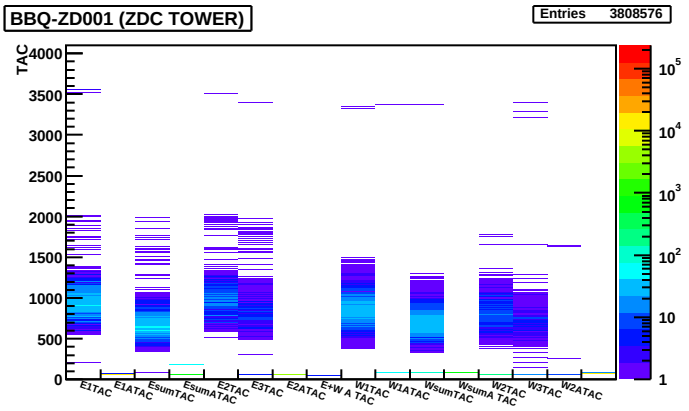

BBQ-BB002 (BBC west small tiles ADC)
Entries 3808576
ADC
QT Input Channel

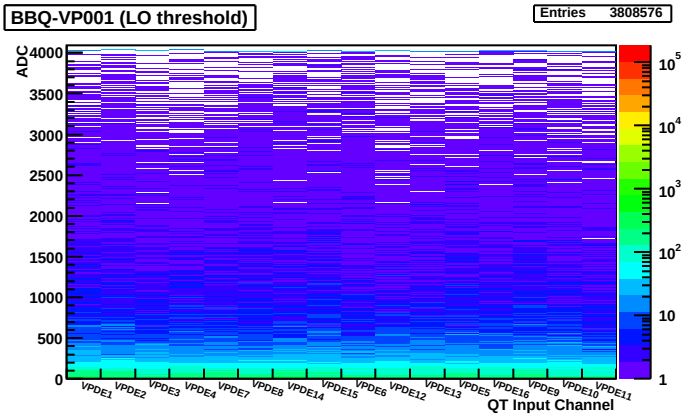

BBQ-BB002 (BBC west small tiles TAC)
Entries 3808576
TAC
QT Input Channel

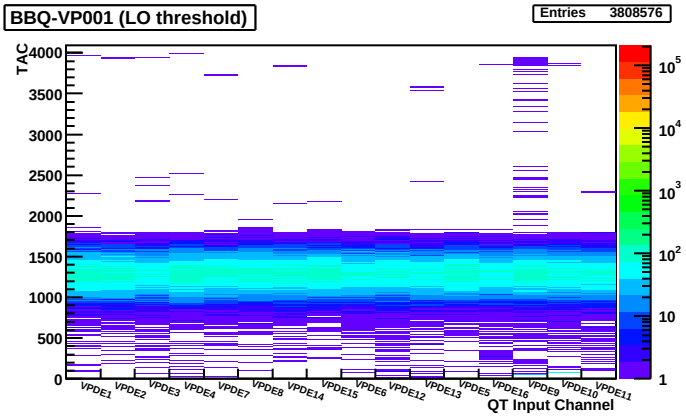

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3808576
ADC
QT Input Channel

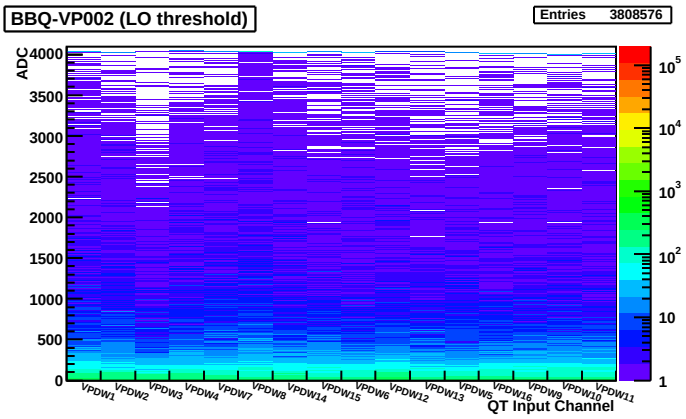

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3808576
TAC
QT Input Channel

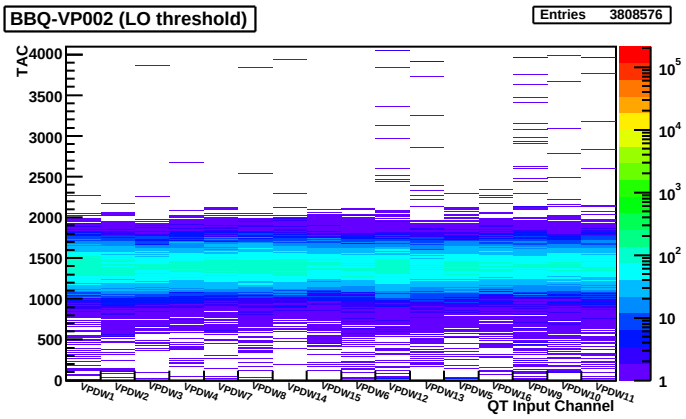

BBQ-ZD001 (ZDC TOWER)
Entries 3808576
ADC

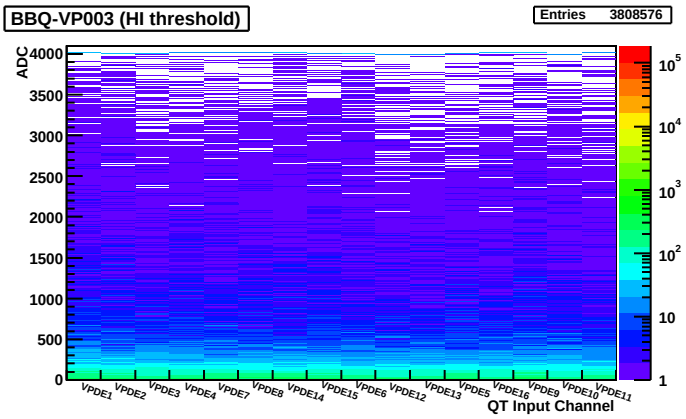

BBQ-ZD001 (ZDC TOWER)
Entries 3808576
TAC

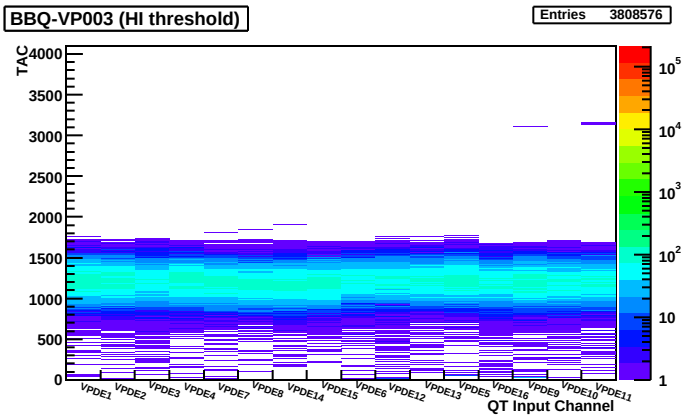

BBQ-VP001 (LO threshold)
Entries 3808576
ADC
QT Input Channel

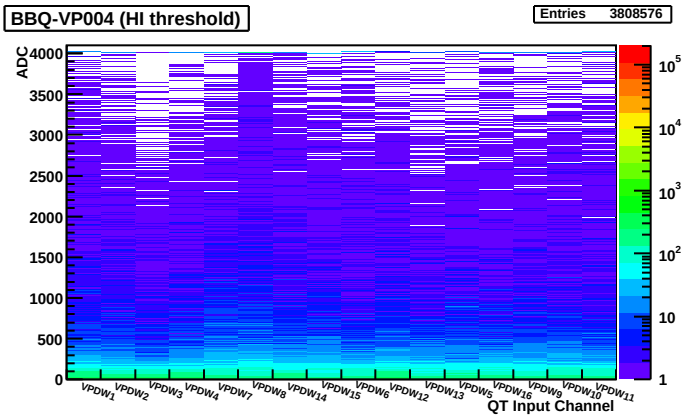

BBQ-VP001 (LO threshold)
Entries 3808576
TAC
QT Input Channel

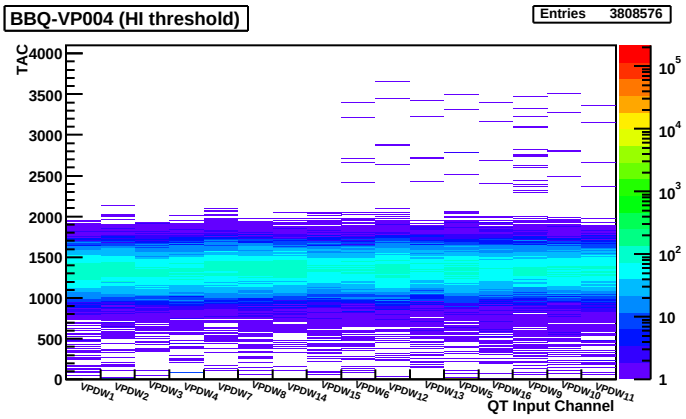

BBQ-VP002 (LO threshold)
Entries 3808576
ADC
QT Input Channel

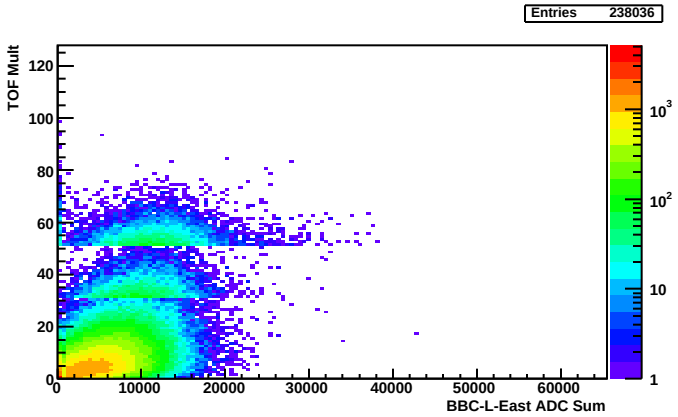

BBQ-VP002 (LO threshold)
Entries 3808576
TAC
QT Input Channel

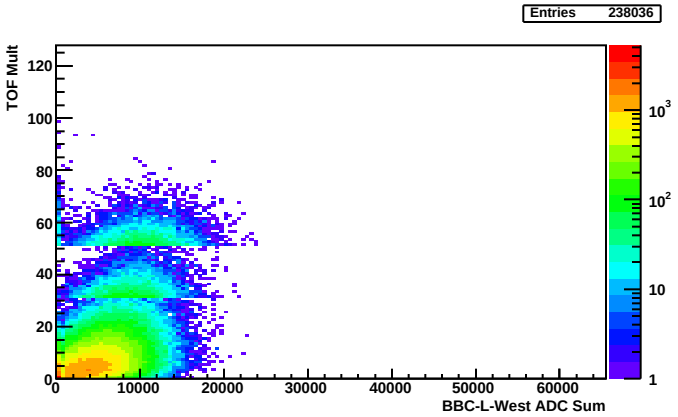

BBQ-VP003 (HI threshold)
Entries 3808576
ADC
QT Input Channel

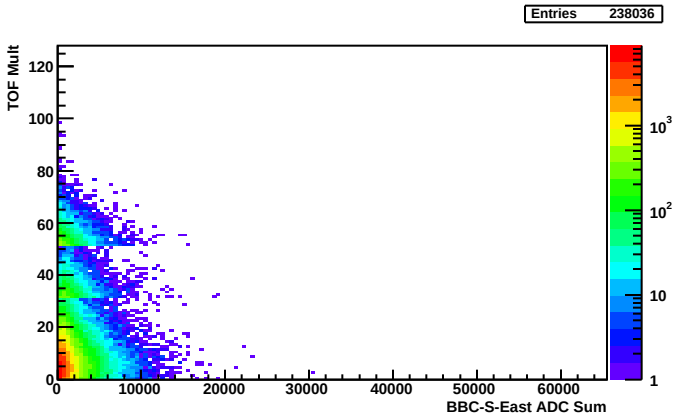

BBQ-VP003 (HI threshold)
Entries 3808576
TAC
QT Input Channel

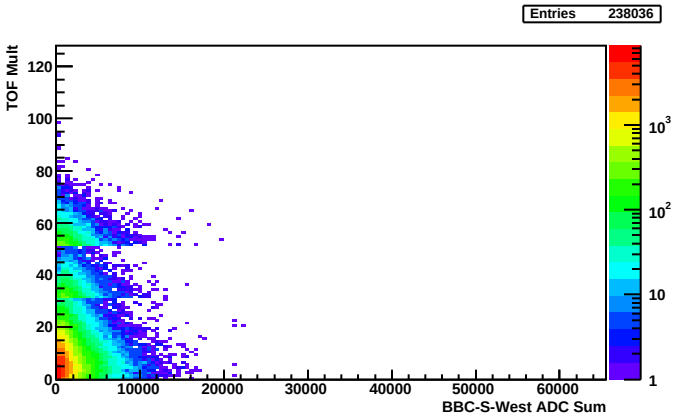

BBQ-VP004 (HI threshold)
Entries 3808576
ADC
QT Input Channel

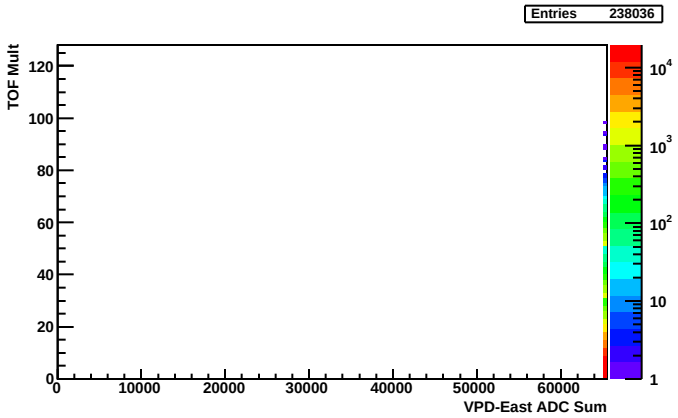

BBQ-VP004 (HI threshold)
Entries 3808576
TAC
QT Input Channel

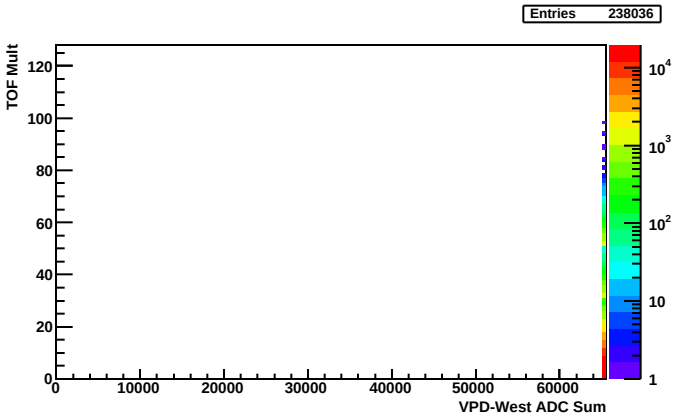

Entries 238036
TOF Mult
BBC-L-East ADC Sum

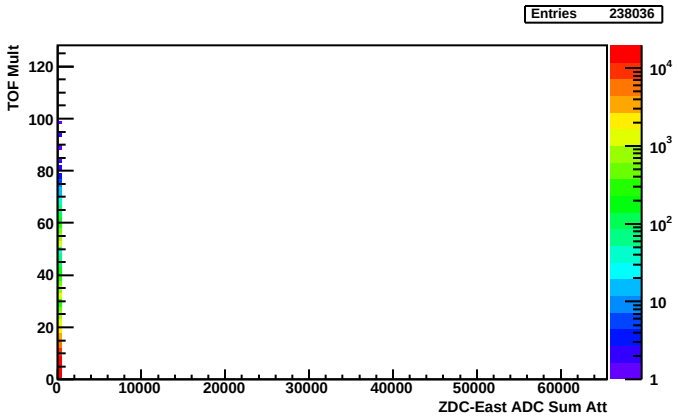

Entries 238036
TOF Mult
BBC-L-West ADC Sum

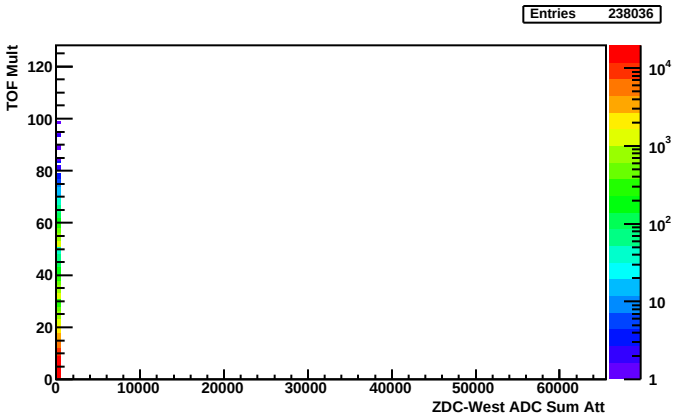

Entries 238036
TOF Mult
BBC-S-East ADC Sum

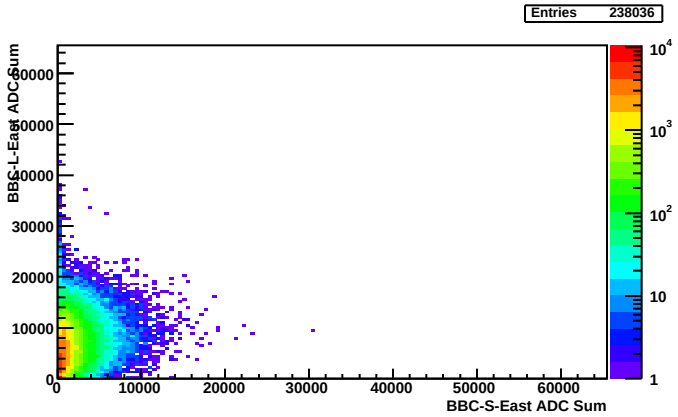

Entries 238036
TOF Mult
BBC-S-West ADC Sum

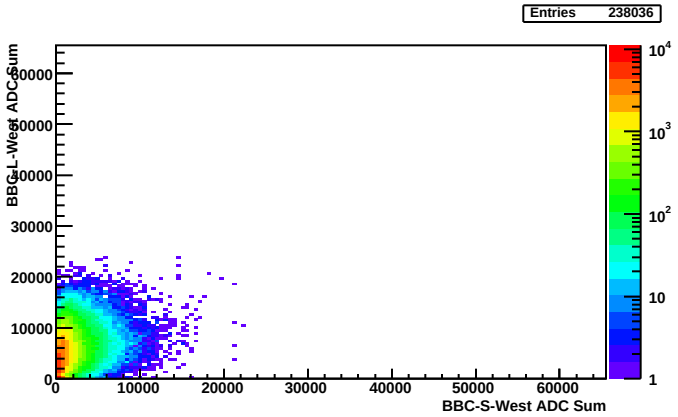

Entries 238036
TOF Mult
VPD-East ADC Sum

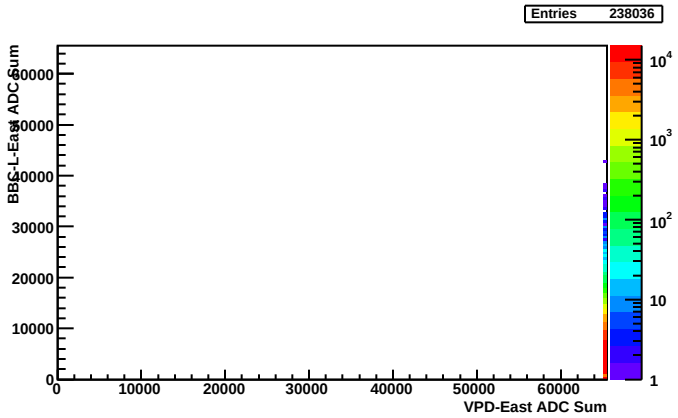

Entries 238036
TOF Mult
VPD-West ADC Sum

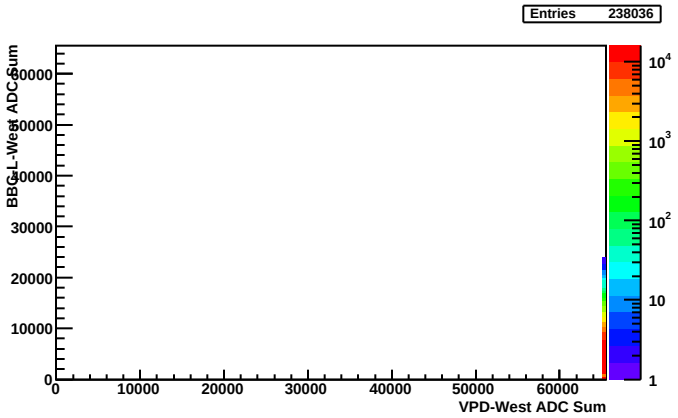

Entries 238036
TOF Mult
ZDC-East ADC Sum Att

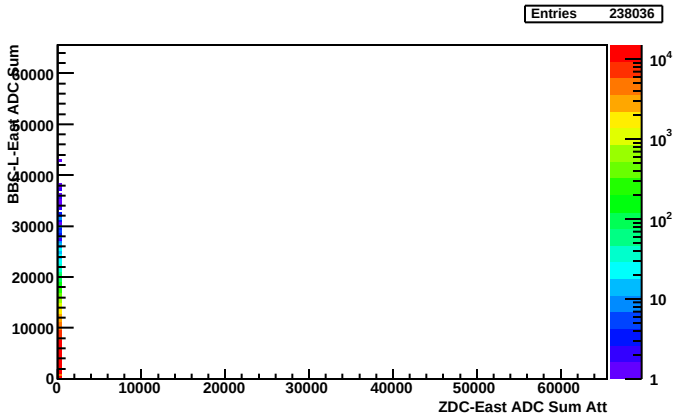

Entries 238036
TOF Mult
ZDC-West ADC Sum Att

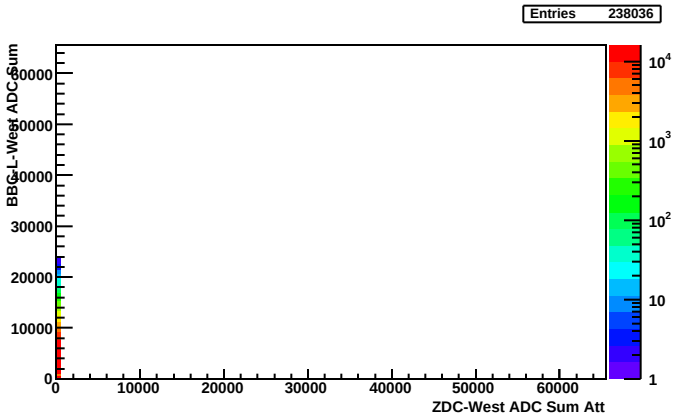

Entries 238036
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 238036
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 238036
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 238036
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 238036
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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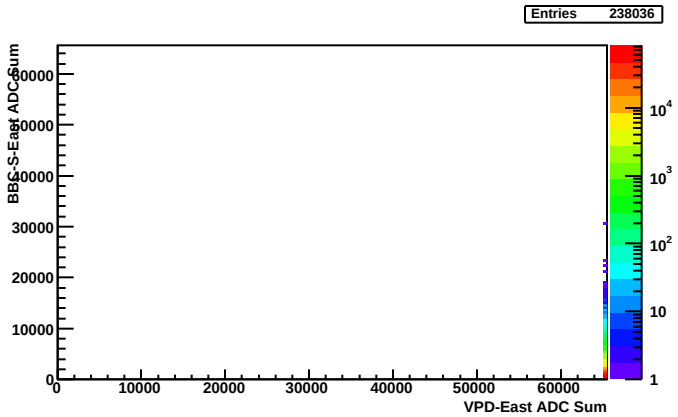
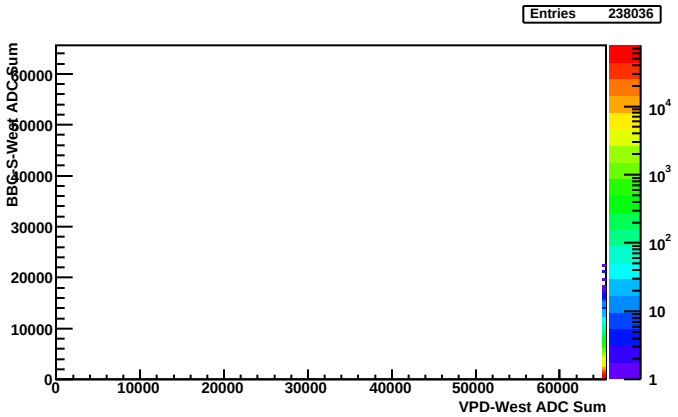
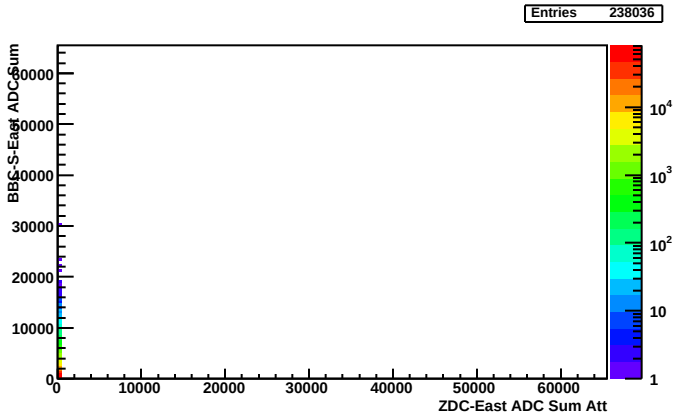
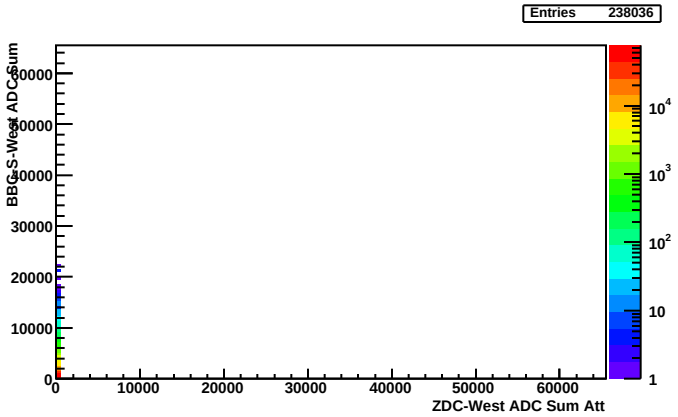
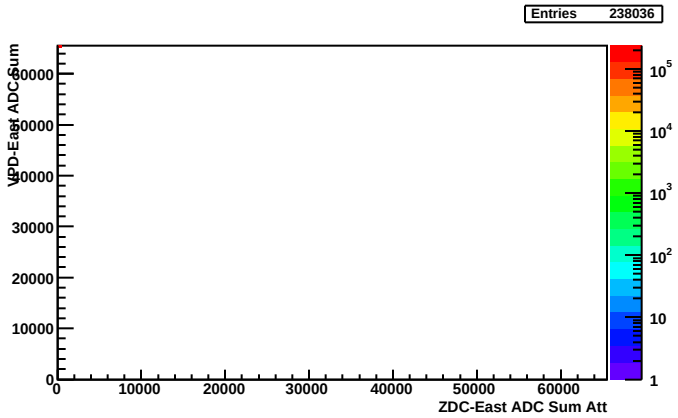
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

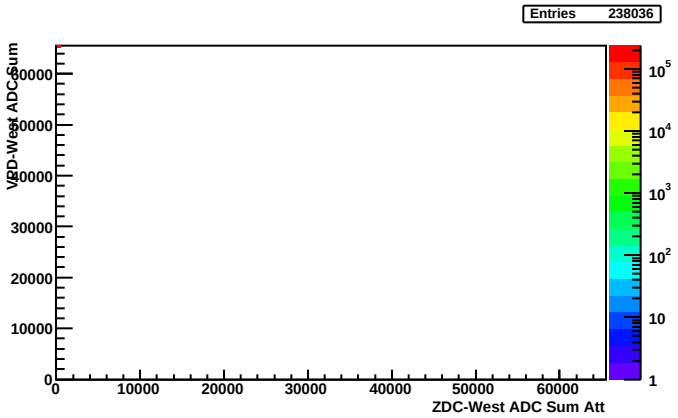

Entries 238036
BBC-S-East ADC Sum
VPD-East ADC Sum

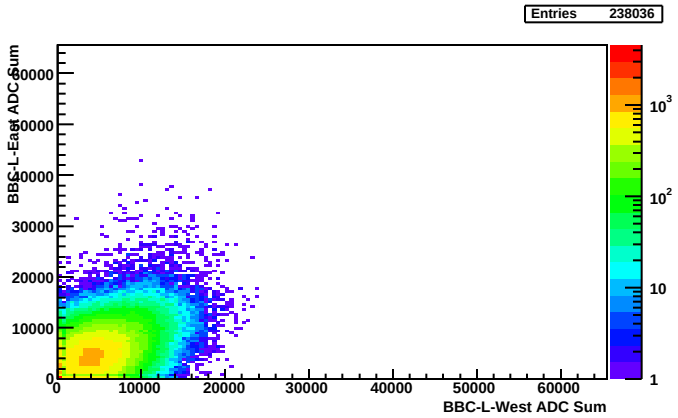

Entries 238036
BBC-S-West ADC Sum
VPD-West ADC Sum

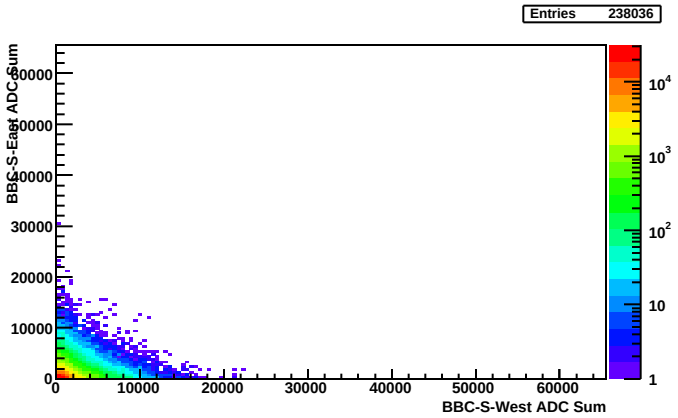

Entries 238036
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

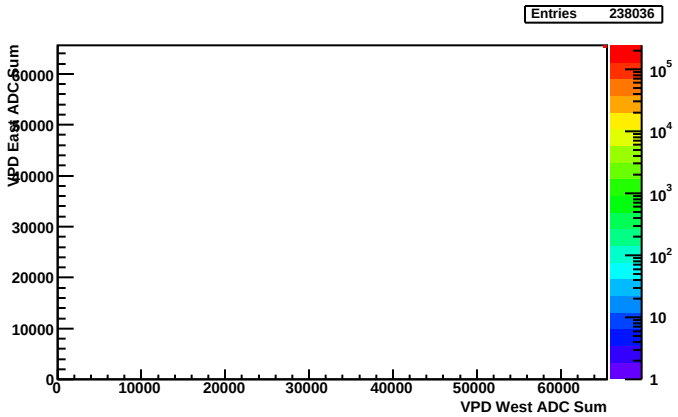

Entries 238036
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

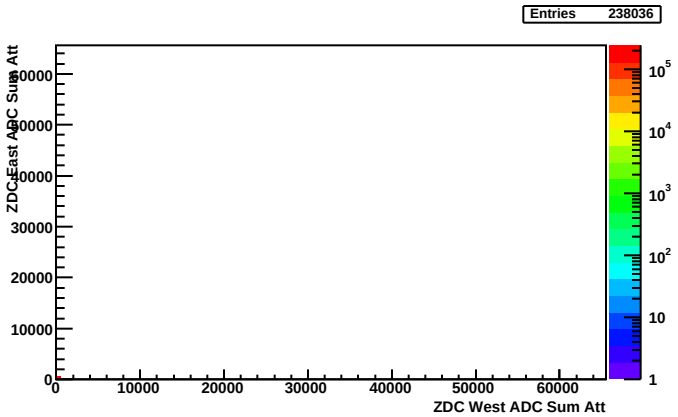

Entries 238036
VPD-East ADC Sum
ZDC-East ADC Sum Att

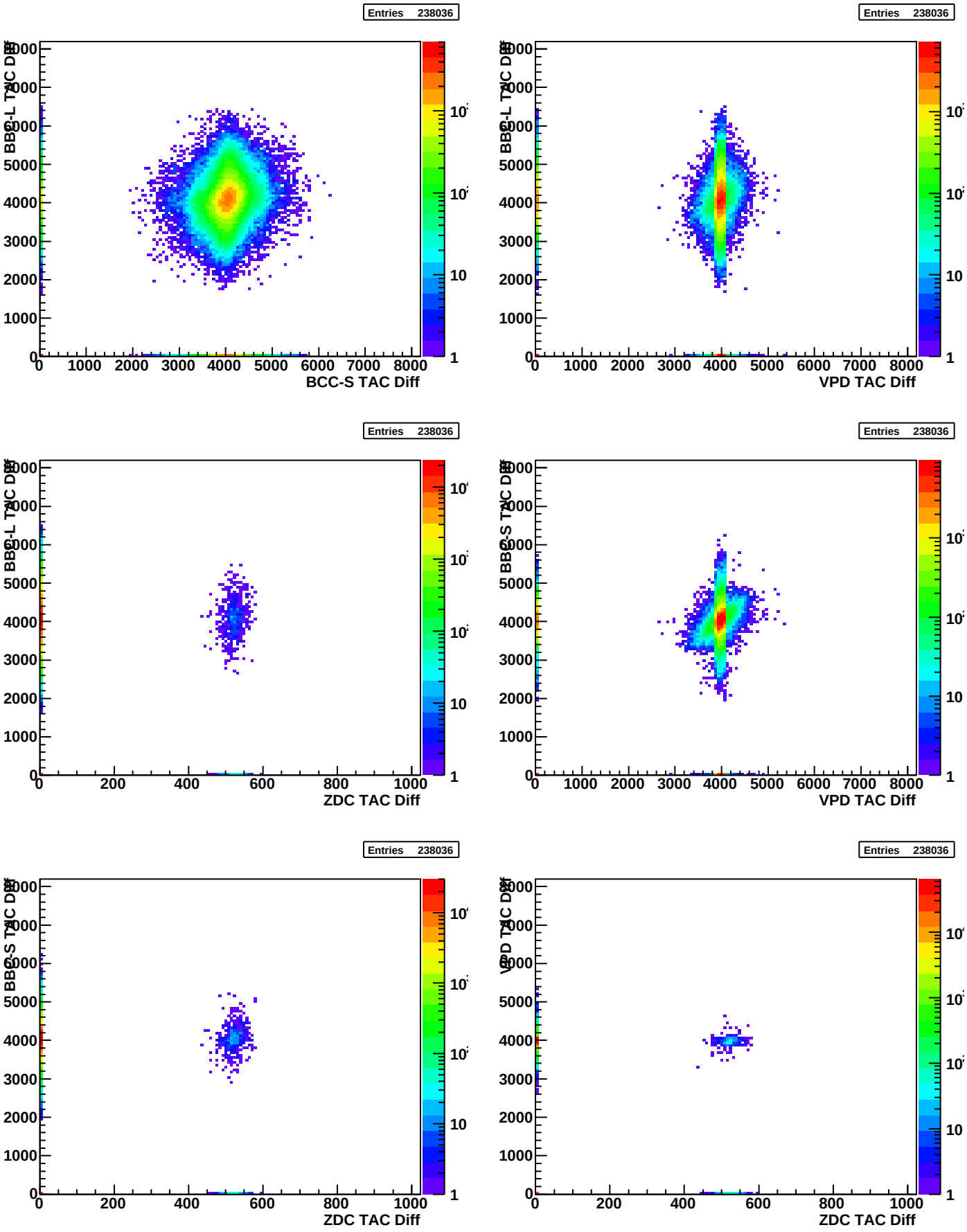

Entries 238036
VPD-West ADC Sum
ZDC-West ADC Sum Att

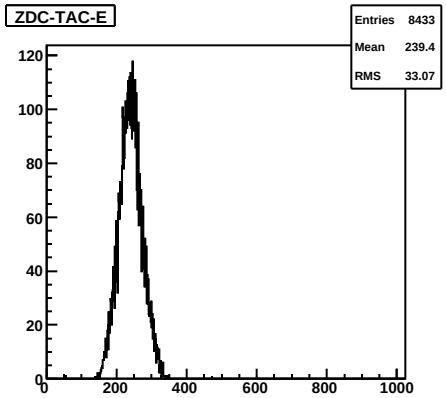

Entries 238036
BBC-L-East ADC Sum
BBC-L-West ADC Sum

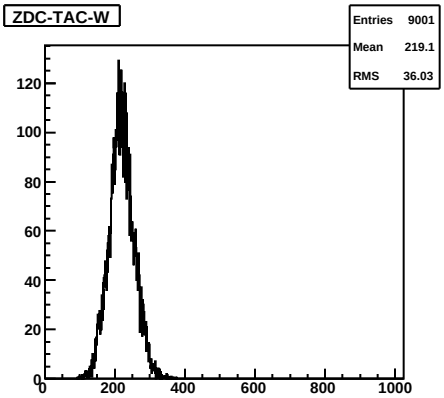

Entries 238036
BBC-S-East ADC Sum
BBC-S-West ADC Sum

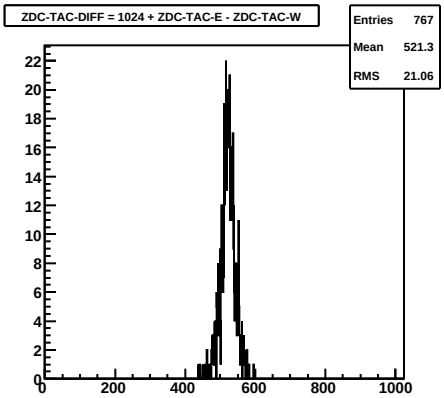

Entries 238036
VPD East ADC Sum
VPD West ADC Sum

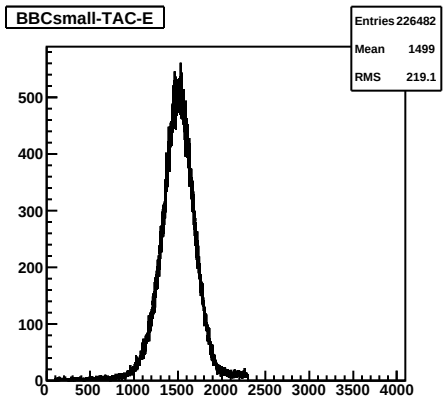

Entries 238036
ZDC East ADC Sum Att
ZDC West ADC Sum Att

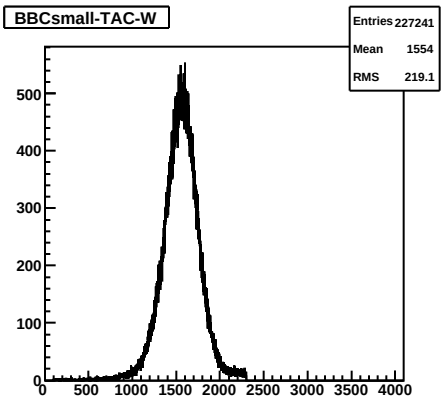

Entries 238036
BBC-L TAC Diff
BCC-S TAC Diff
Entries 238036
BBC-L TAC Diff
VPD TAC Diff
Entries 238036
BBC-L TAC Diff
ZDC TAC Diff
Entries 238036
BBC-S TAC Diff
VPD TAC Diff
Entries 238036
BBC-S TAC Diff
ZDC TAC Diff
Entries 238036
VPD TAC Diff
ZDC TAC Diff

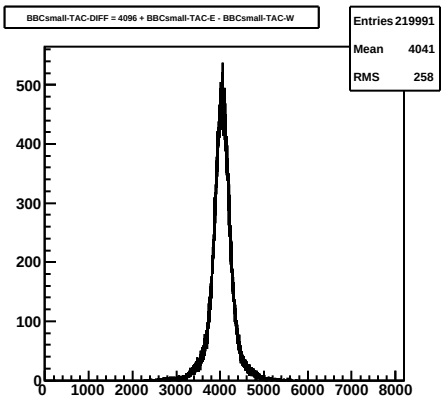

ZDC-TAC-E
Entries 8433
Mean 239.4
RMS 33.07

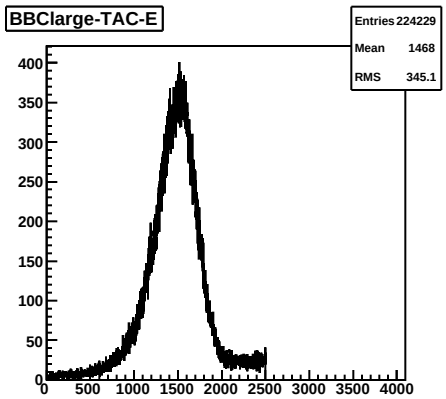

ZDC-TAC-W
Entries 9001
Mean 219.1
RMS 36.03

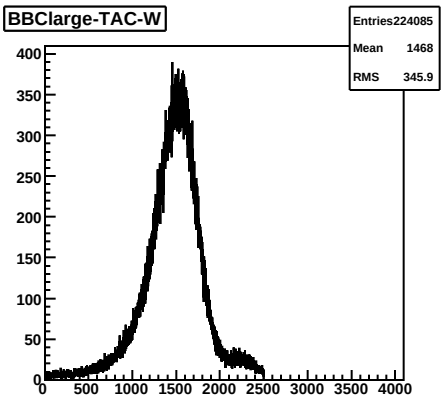

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 767
Mean 521.3
RMS 21.06

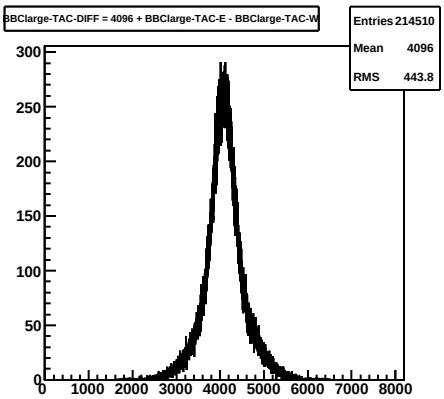

BBCsmall-TAC-E
Entries 226482
Mean 1499
RMS 219.1

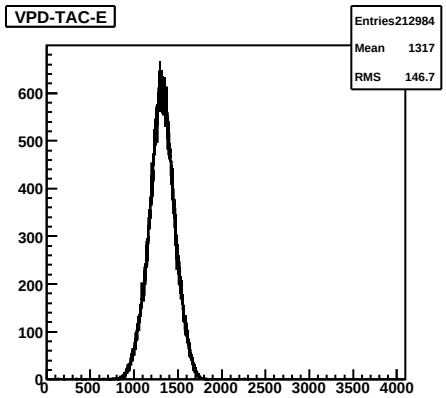

BBCsmall-TAC-W
Entries 227241
Mean 1554
RMS 219.1

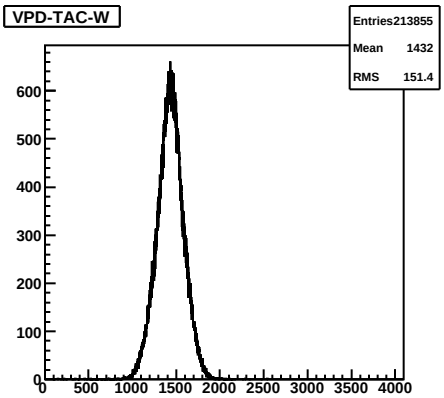

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 219991
Mean 4041
RMS 258

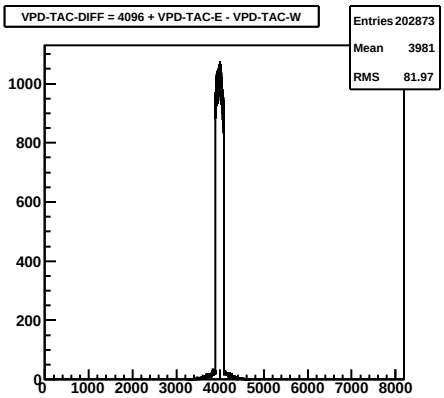

BBClarge-TAC-E
Entries 224229
Mean 1468
RMS 345.1

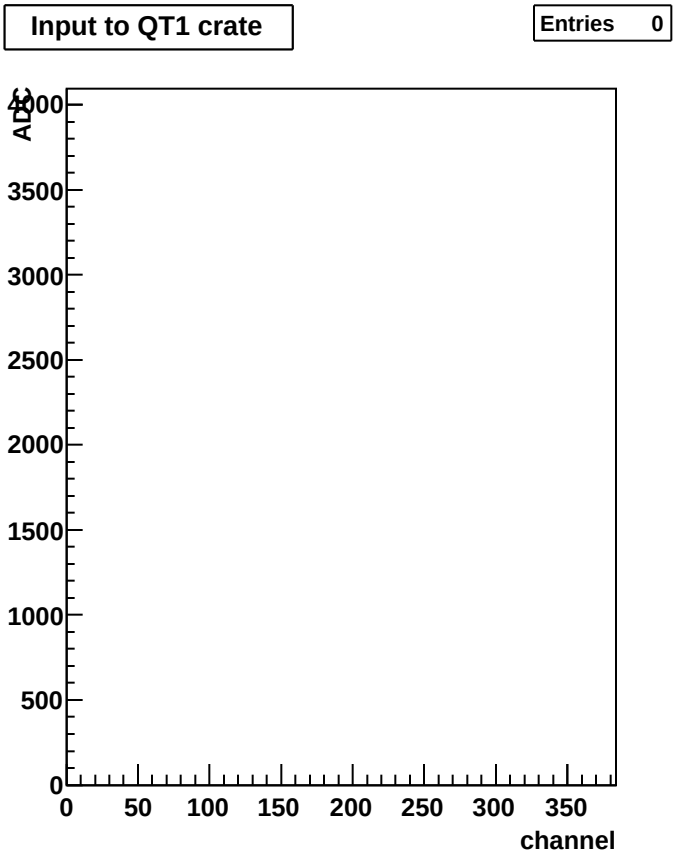

BBClarge-TAC-W
Entries 224085
Mean 1468
RMS 345.9

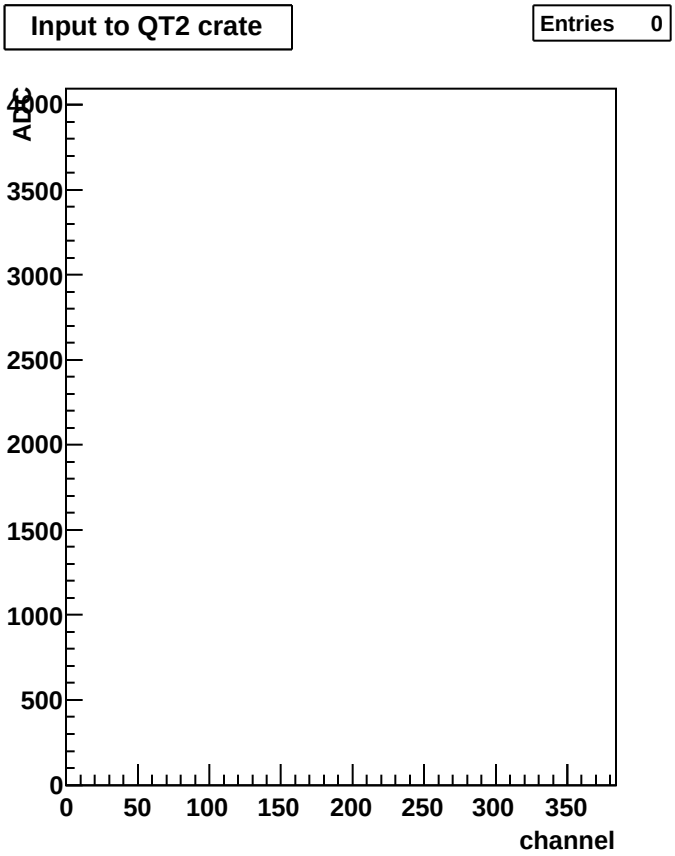

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 214510
Mean 4096
RMS 443.8

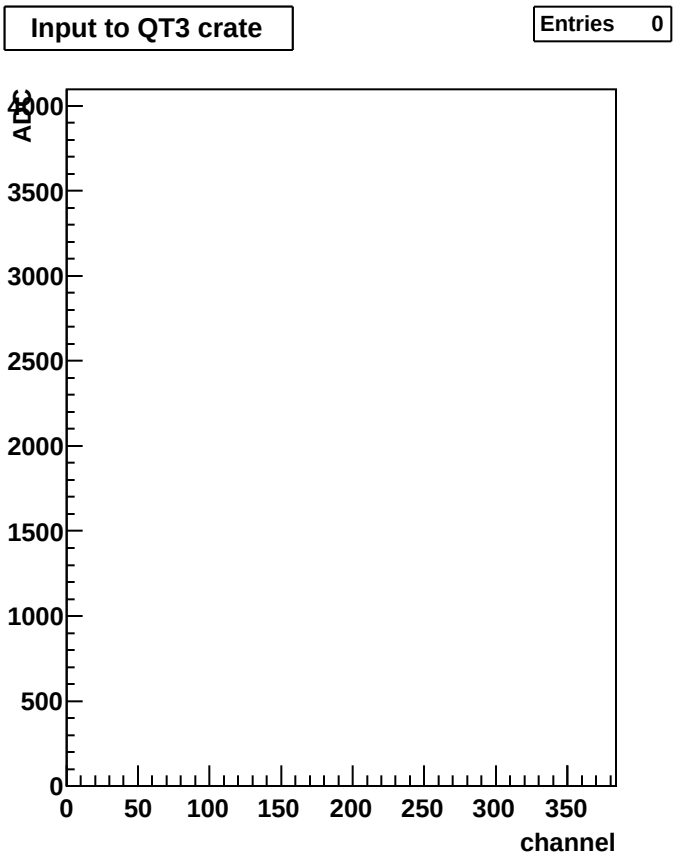

VPD-TAC-E
Entries 212984
Mean 1317
RMS 146.7

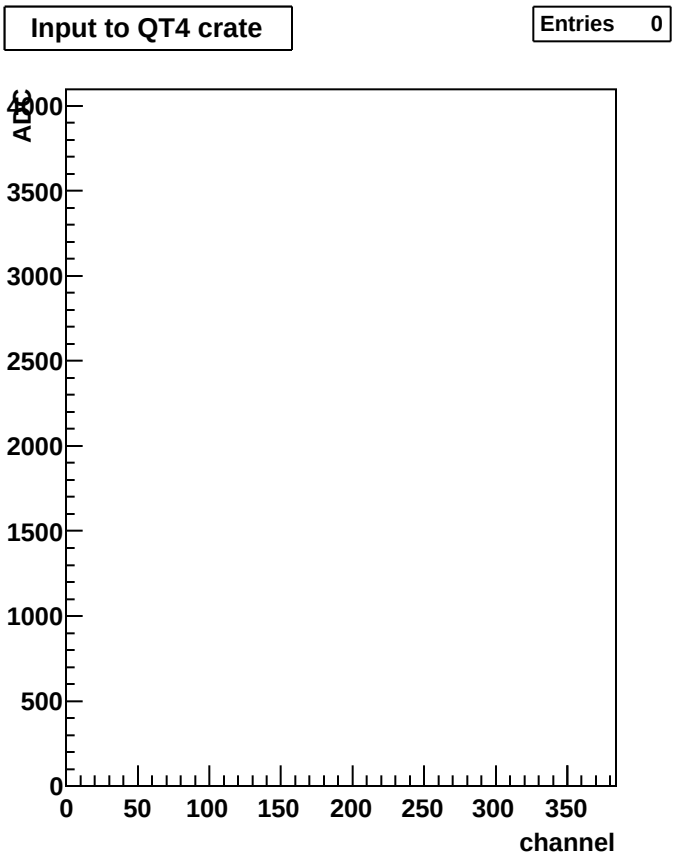

VPD-TAC-W
Entries 213855
Mean 1432
RMS 151.4

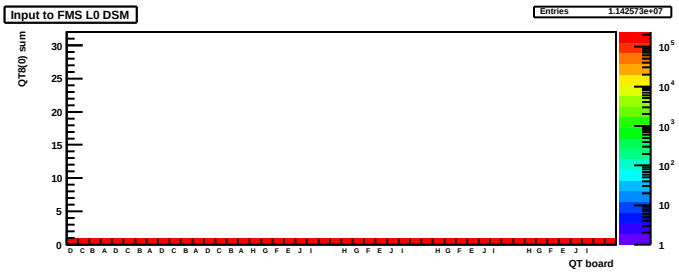

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 202873
Mean 3981
RMS 81.97

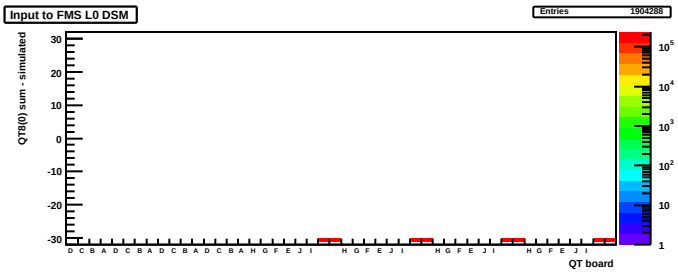

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

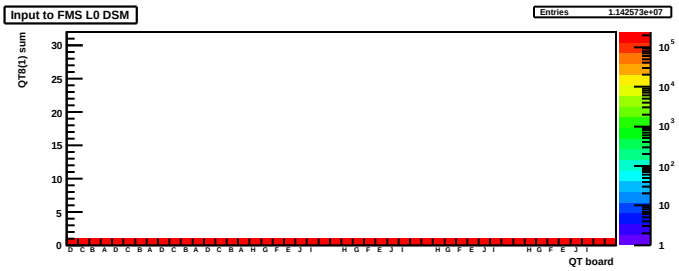

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

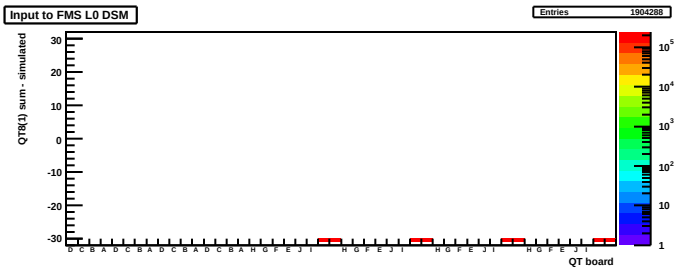

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

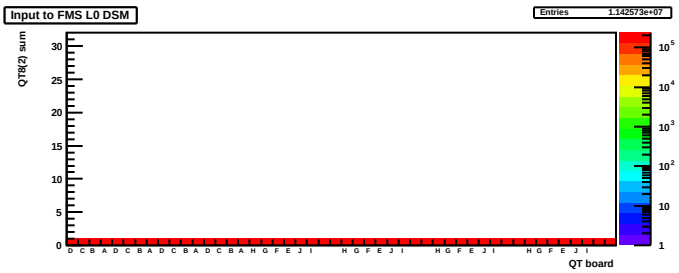

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

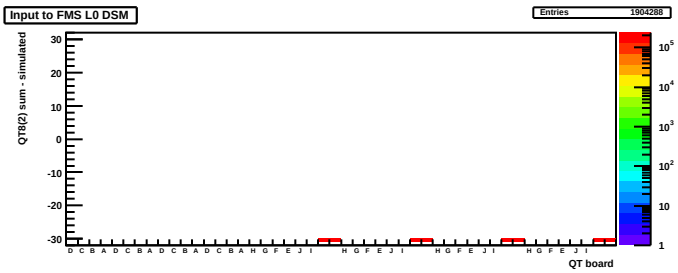

Input to FMS L0 DSM
Entries 1.142573e+07
QT8(0) sum
QT board

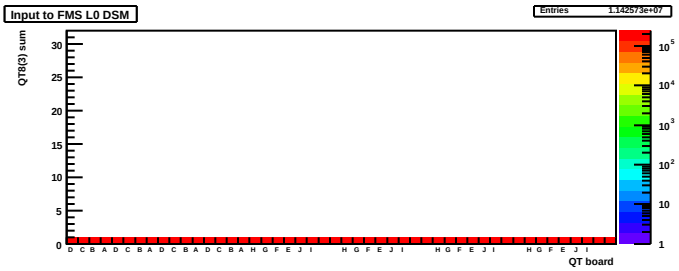

Input to FMS L0 DSM
Entries 1904288
QT8(0) sum - simulated
QT board

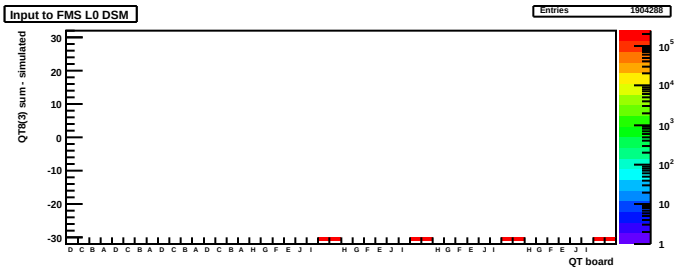

Input to FMS L0 DSM
Entries 1.142573e+07
QT8(1) sum
QT board

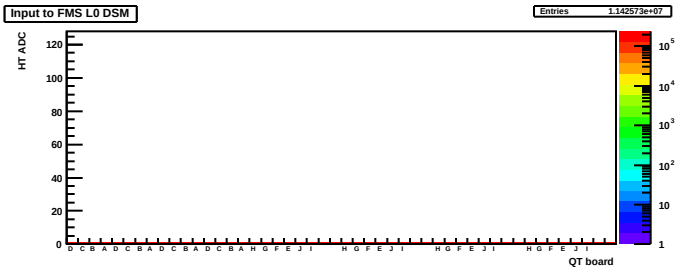

Input to FMS L0 DSM
Entries 1904288
QT8(1) sum - simulated
QT board

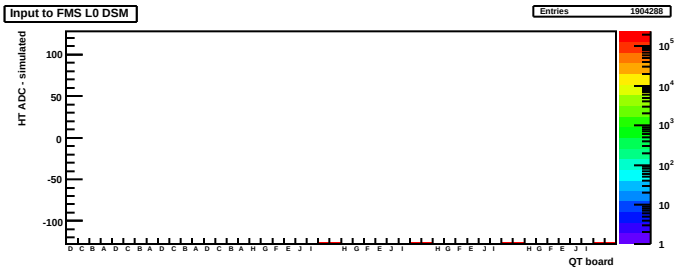

Input to FMS L0 DSM
Entries 1.142573e+07
QT8(2) sum
QT board

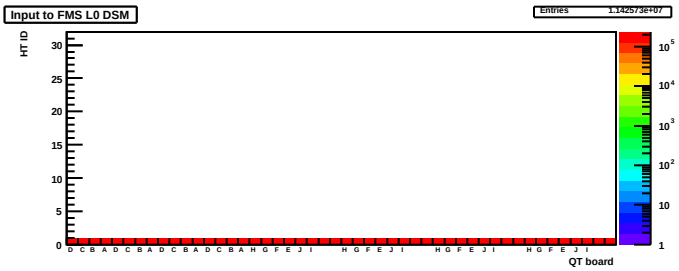

Input to FMS L0 DSM
Entries 1904288
QT8(2) sum - simulated
QT board

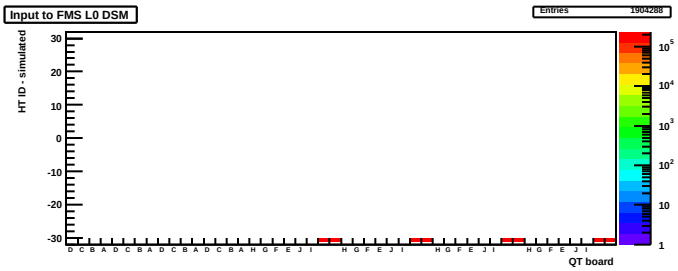

Input to FMS L0 DSM
Entries 1.142573e+07
QT8(3) sum
QT board

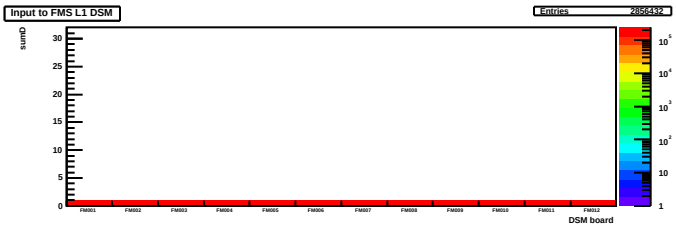

Input to FMS L0 DSM
Entries 1904288
QT8(3) sum - simulated
QT board

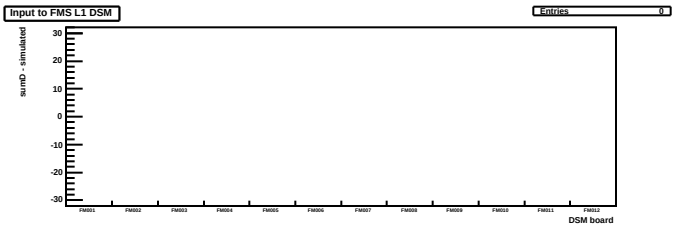

Input to FMS L0 DSM
Entries 1.142573e+07
HT ADC
QT board

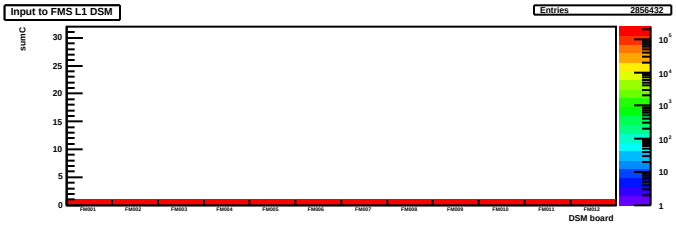

Input to FMS L0 DSM
Entries 1904288
HT ADC - simulated
QT board

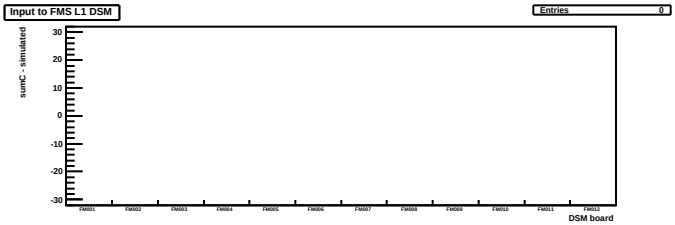

Input to FMS L0 DSM
Entries 1.142573e+07
HT ID
QT board

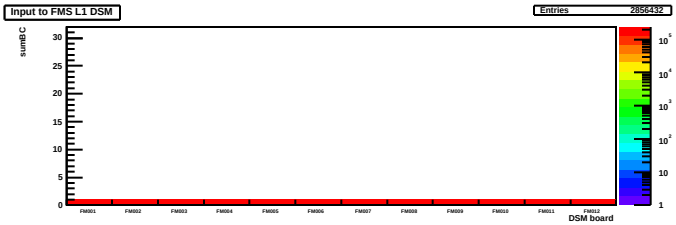

Input to FMS L0 DSM
Entries 1904288
HT ID - simulated
QT board

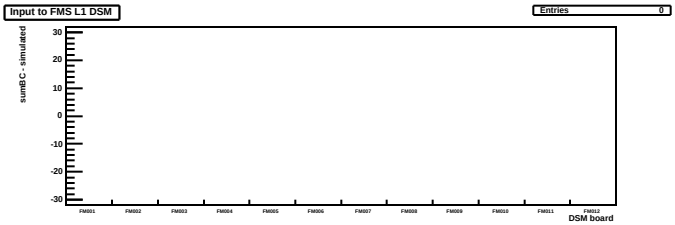

Input to FMS L1 DSM
Entries 2856432
sumD
DSM board

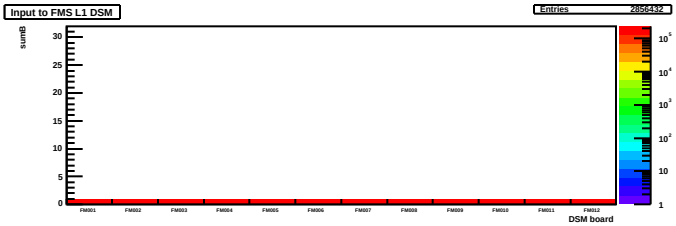

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

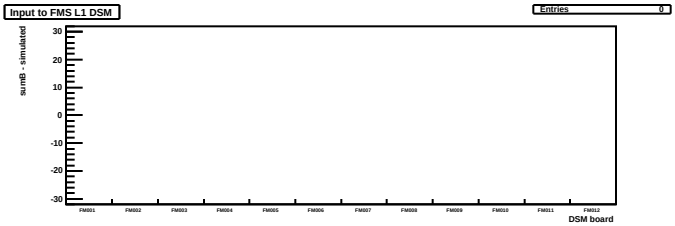

Input to FMS L1 DSM
Entries 2856432
sumC
DSM board

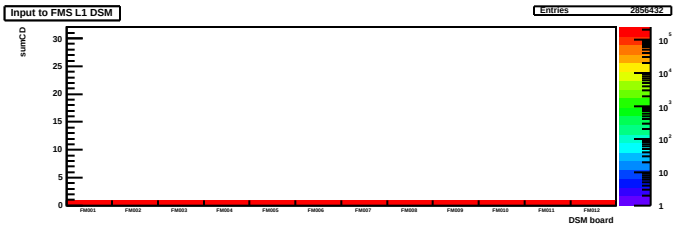

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

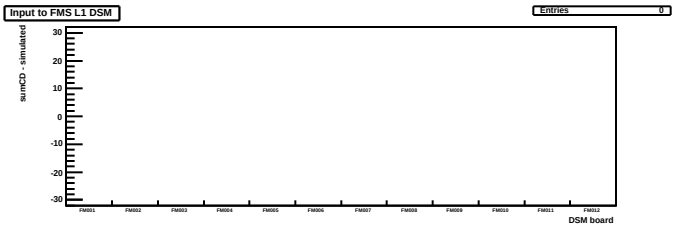

Input to FMS L1 DSM
Entries 2856432
sumBC
DSM board

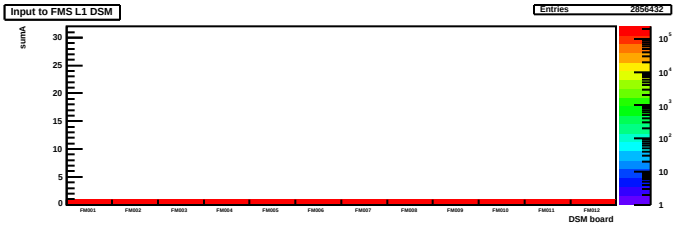

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

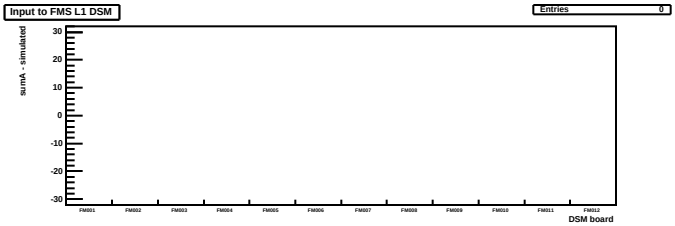

Input to FMS L1 DSM
Entries 2856432
sumB
DSM board

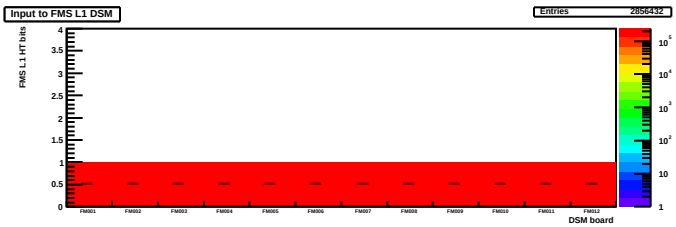

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

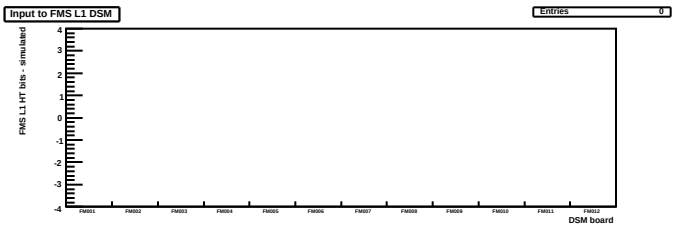

Input to FMS L1 DSM
Entries 2856432
sumCD
DSM board

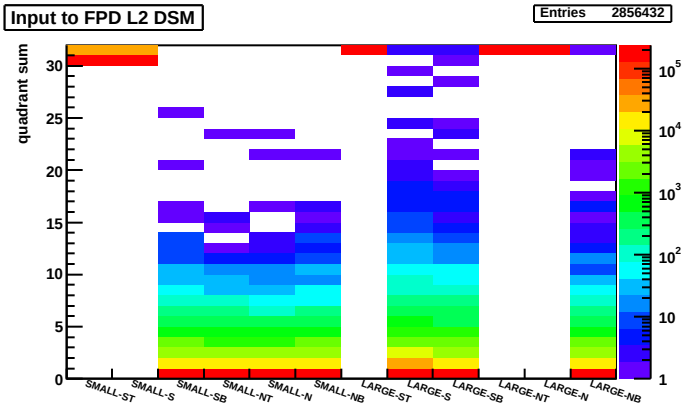

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

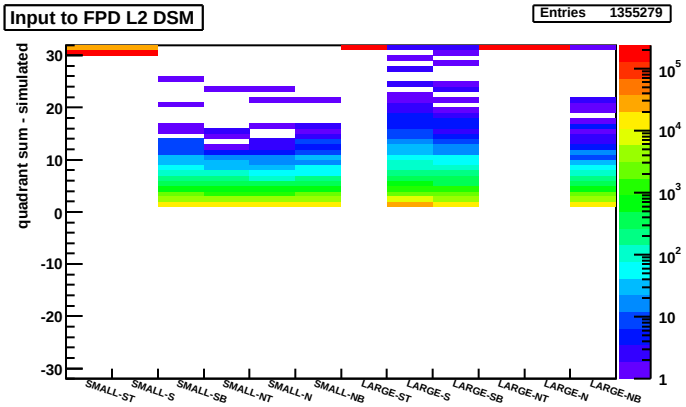

Input to FMS L1 DSM
Entries 2856432
sumA
DSM board

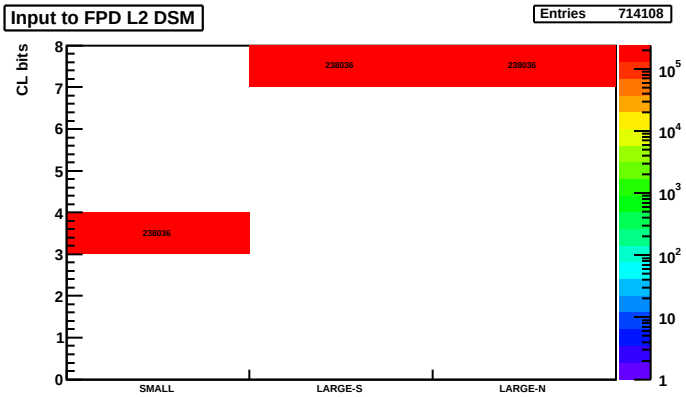

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

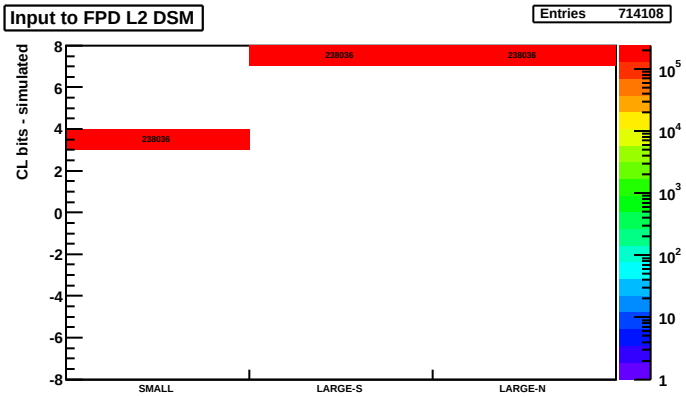

Input to FMS L1 DSM
Entries 2856432
FMS L1 HT bits
DSM board

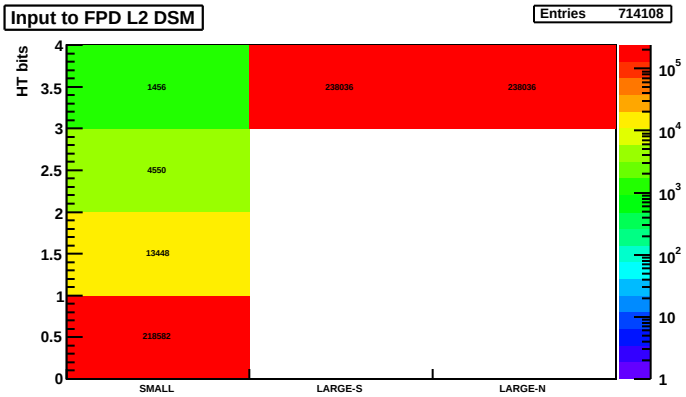

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

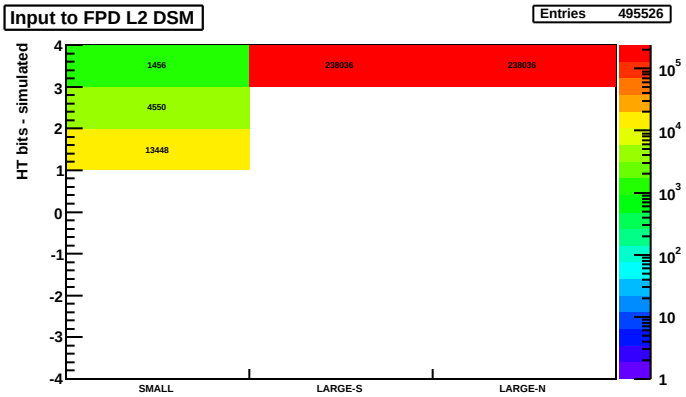

Input to FPD L2 DSM
Entries 2856432
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

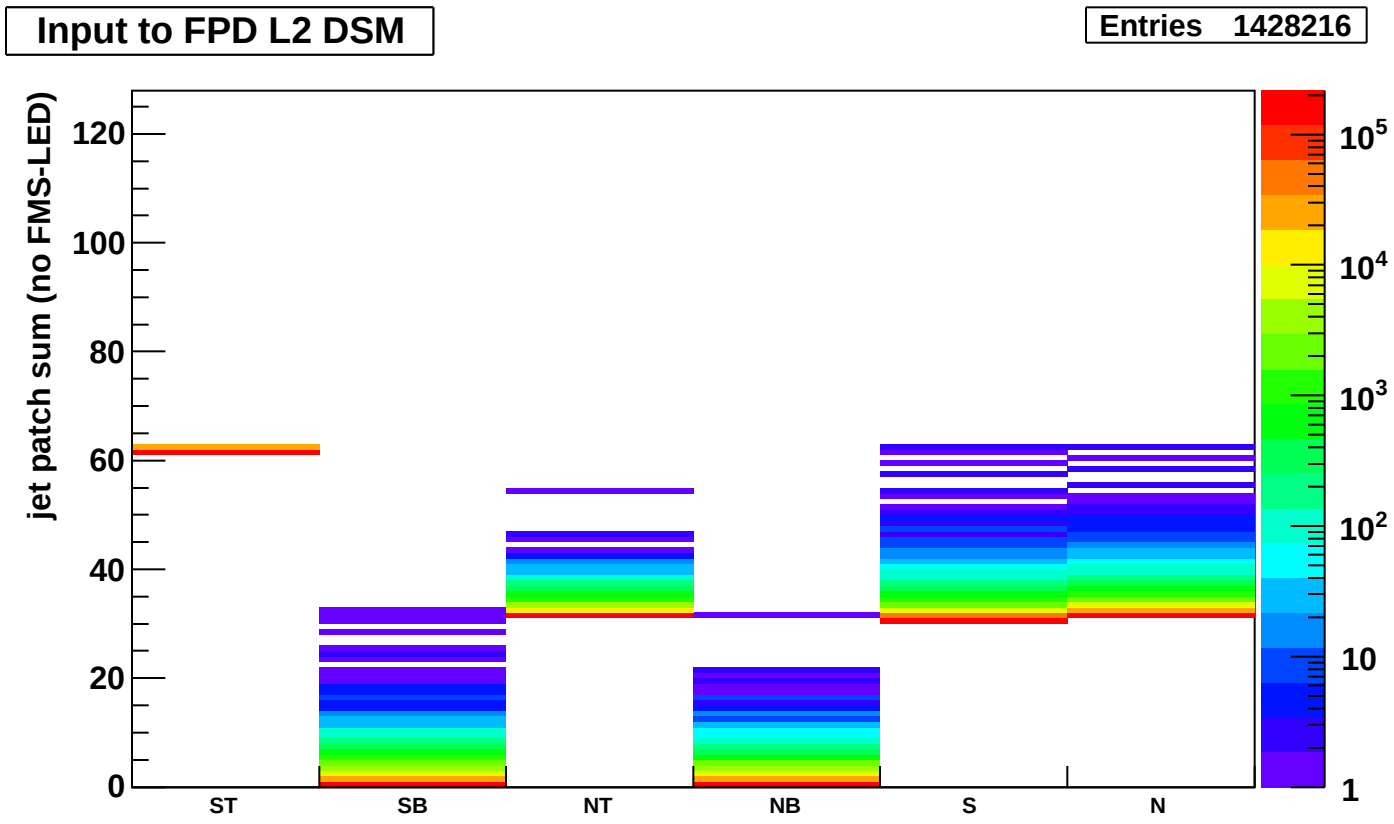

Input to FPD L2 DSM
Entries 1355279
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

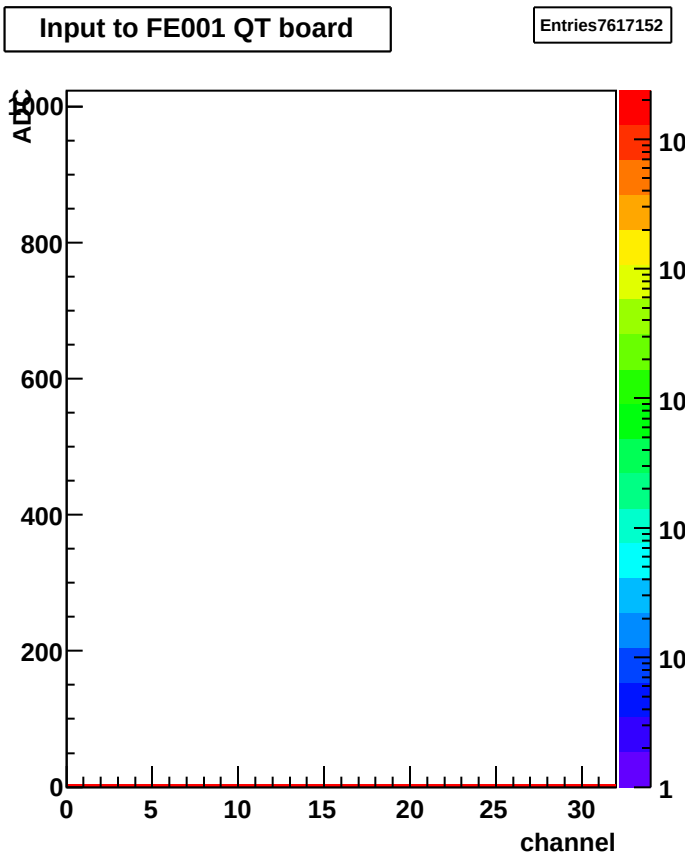

Input to FPD L2 DSM
Entries 714108
CL bits
238036
238036
238036
SMALL
LARGE-S
LARGE-N

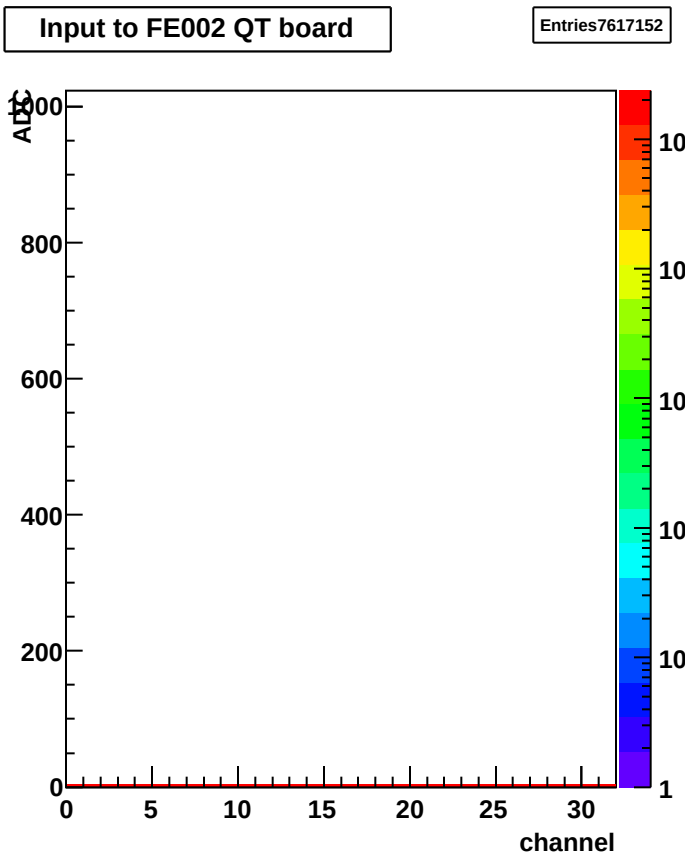

Input to FPD L2 DSM
Entries 714108
CL bits - simulated
238036
238036
238036
SMALL
LARGE-S
LARGE-N

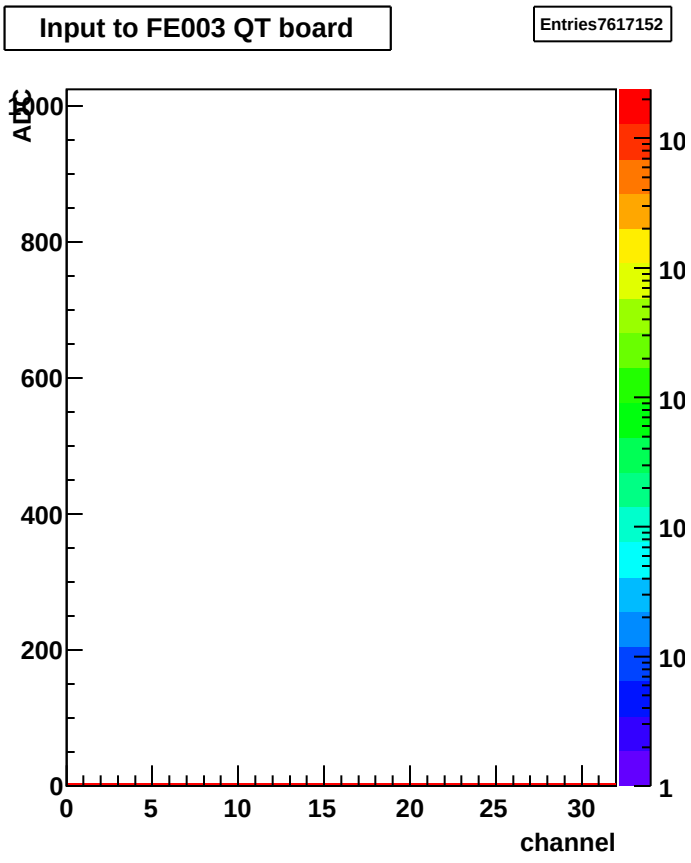

Input to FPD L2 DSM
Entries 714108
HT bits
1456
4550
13448
210582
238036
238036
SMALL
LARGE-S
LARGE-N

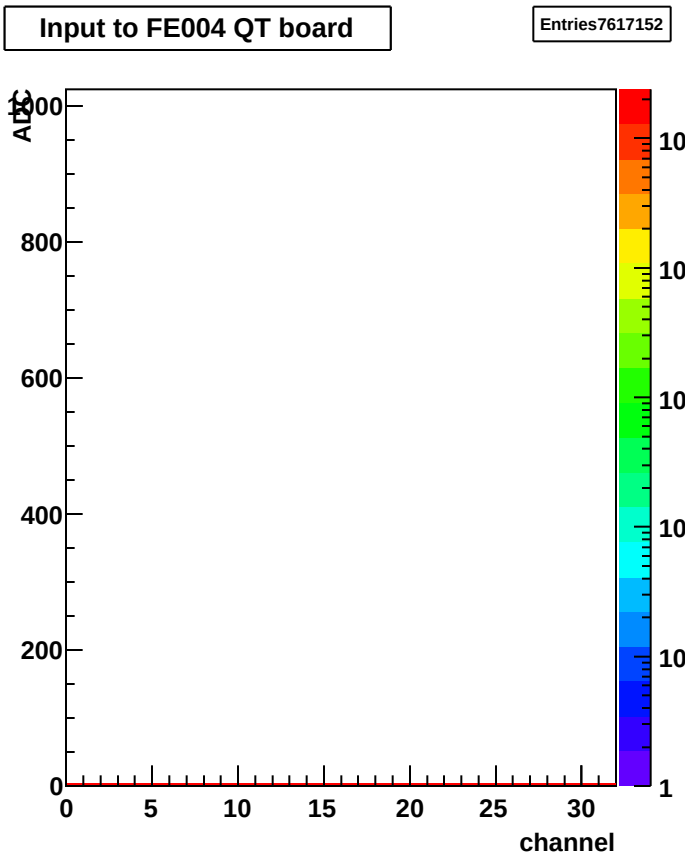

Input to FPD L2 DSM
Entries 495526
HT bits - simulated
1456
4550
13448
238036
238036
SMALL
LARGE-S
LARGE-N

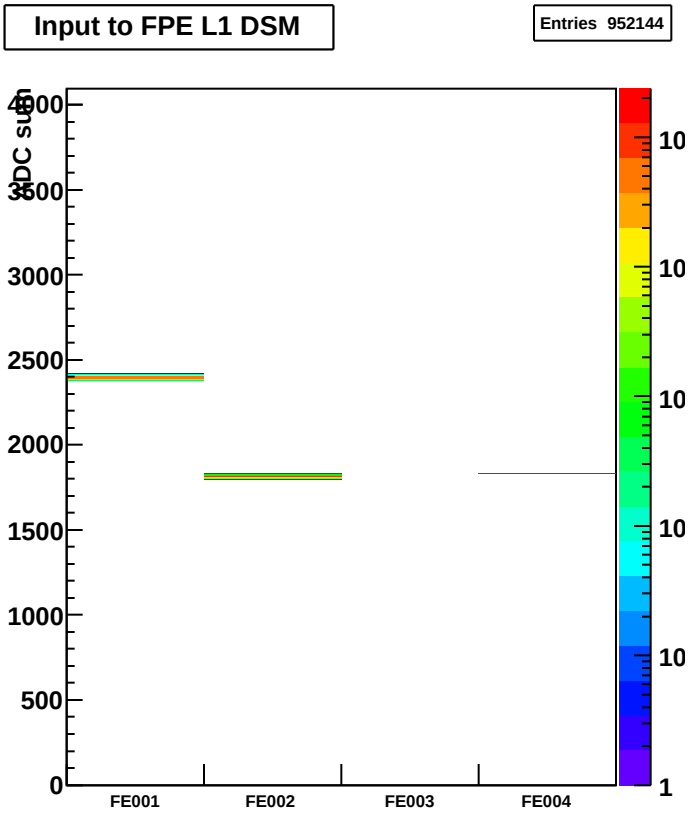

Input to FPD L2 DSM
Entries 1428216
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

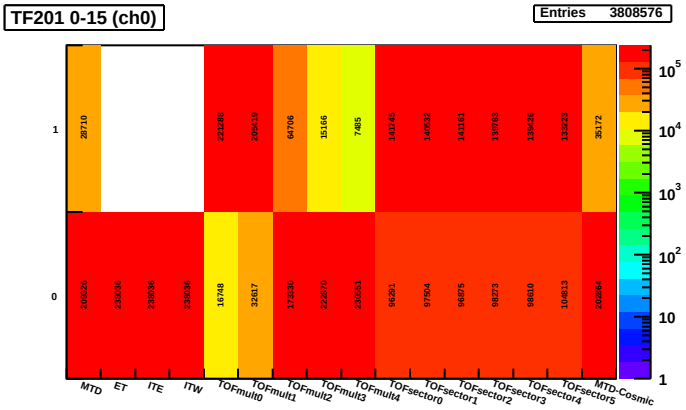

Input to FE001 QT board
Entries7617152
ADC
channel

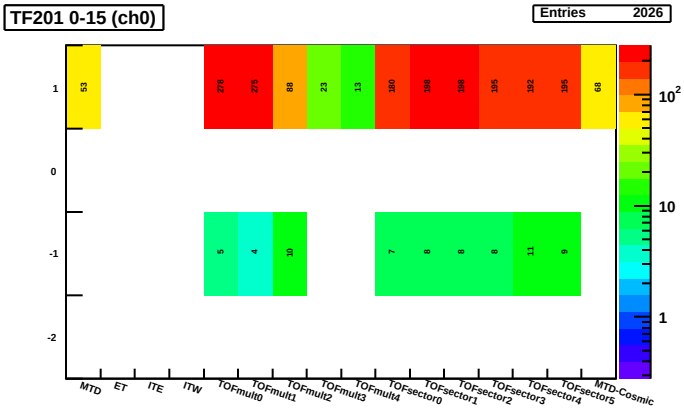

Input to FE002 QT board
Entries7617152
ADC
channel

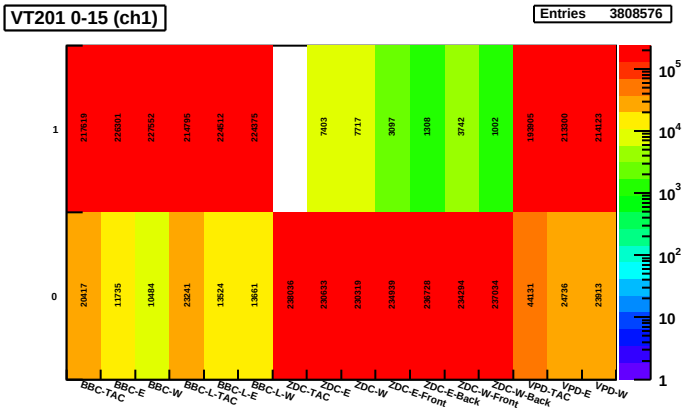

Input to FE003 QT board
Entries7617152
ADC
channel

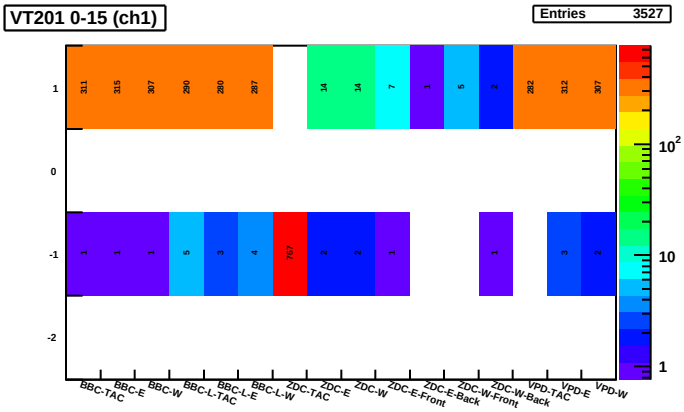

Input to FE004 QT board
Entries7617152
ADC
channel

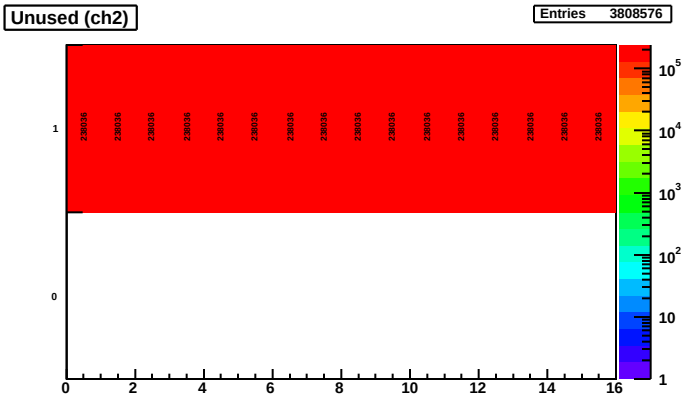

Input to FPE L1 DSM
Entries 952144
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

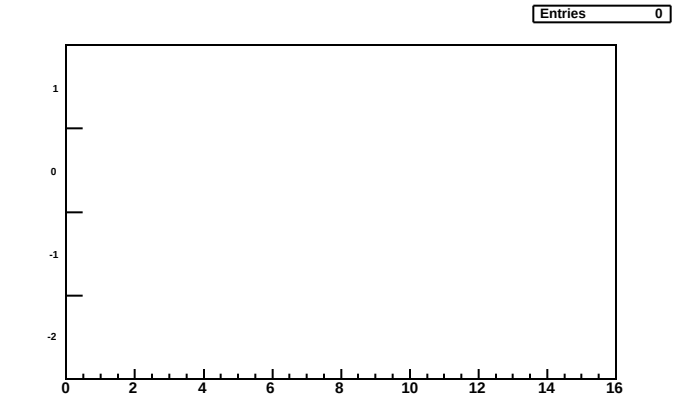

TF201 0-15 (ch0)
Entries 3808576
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

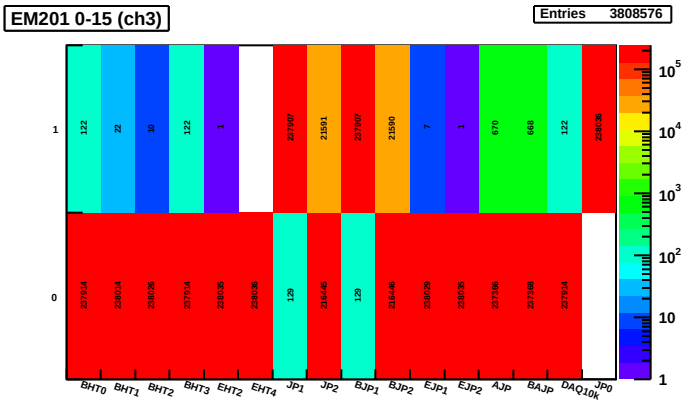

TF201 0-15 (ch0)
Entries 2026
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

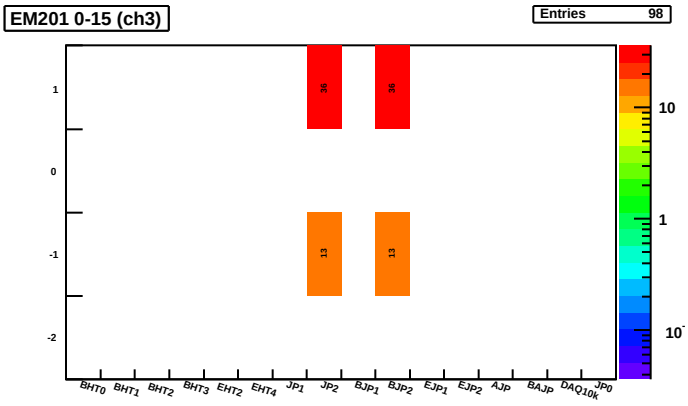

VT201 0-15 (ch1)
Entries 3808576
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

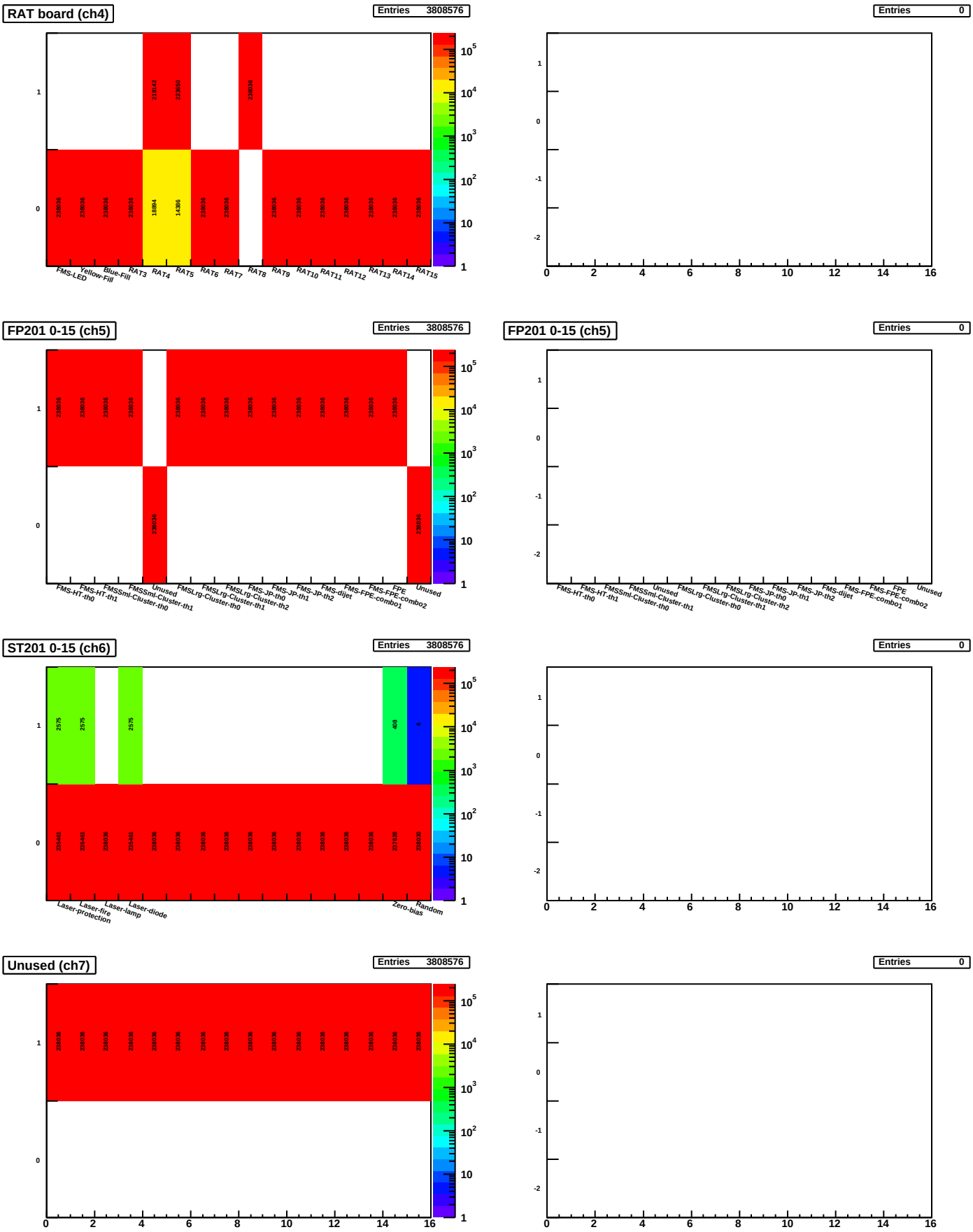

VT201 0-15 (ch1)
Entries 3527
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 3808576


Entries 0


EM201 0-15 (ch3)
Entries 3808576
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 98
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


RAT board (ch4)
Entries 3808576
Entries 0
FMS-LED
Yellow-Fill
Blue-Fill
RAT3
RAT4
RAT5
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15
FP201 0-15 (ch5)
Entries 3808576
Entries 0
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMSLrg-Cluster-th2
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-dijet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused
ST201 0-15 (ch6)
Entries 3808576
Entries 0
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random
Unused (ch7)
Entries 3808576
Entries 0