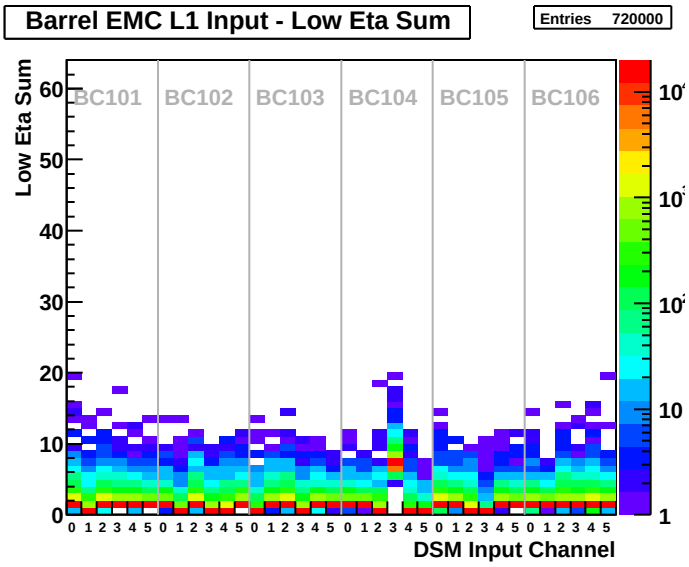
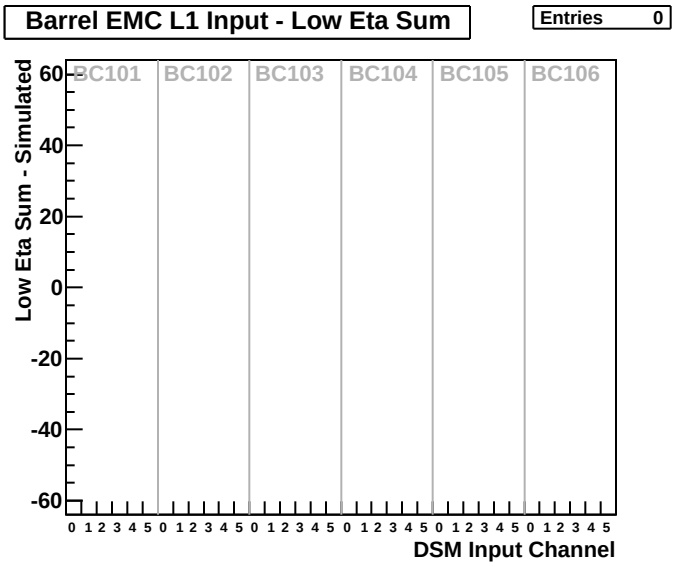
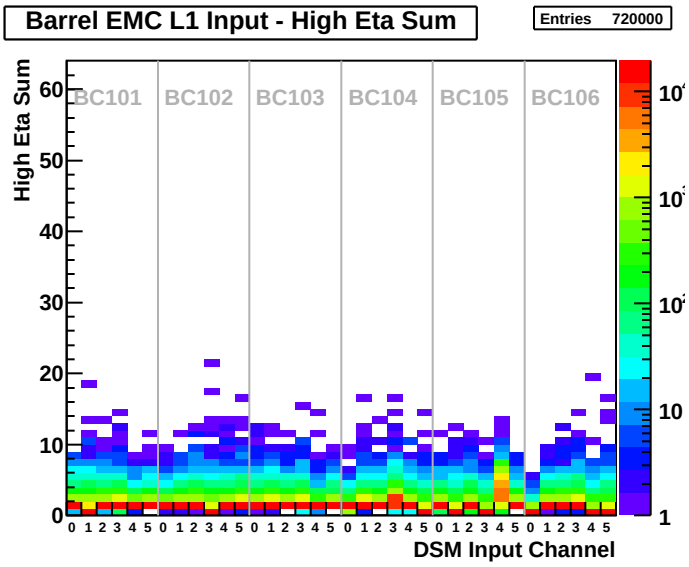
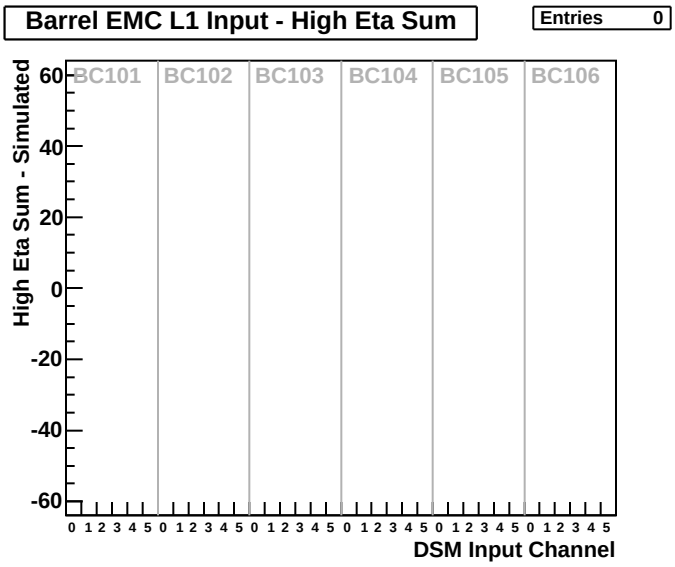
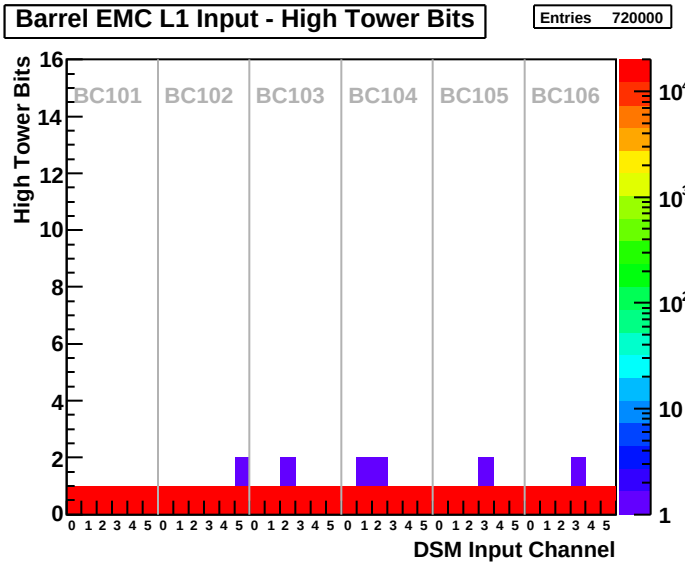
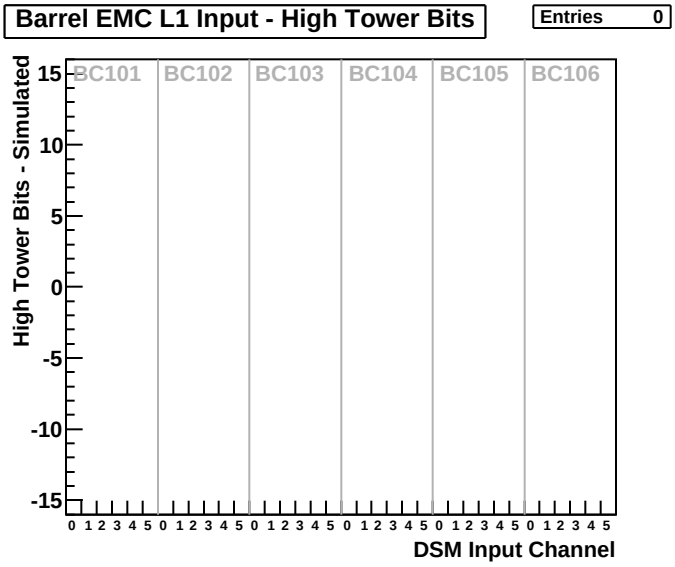

Barrel EMC L1 Input - Low Eta Sum
Entries 720000
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

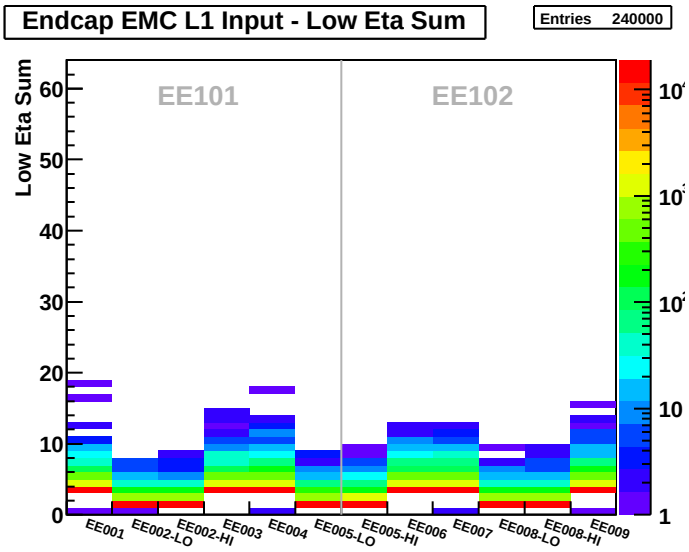

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

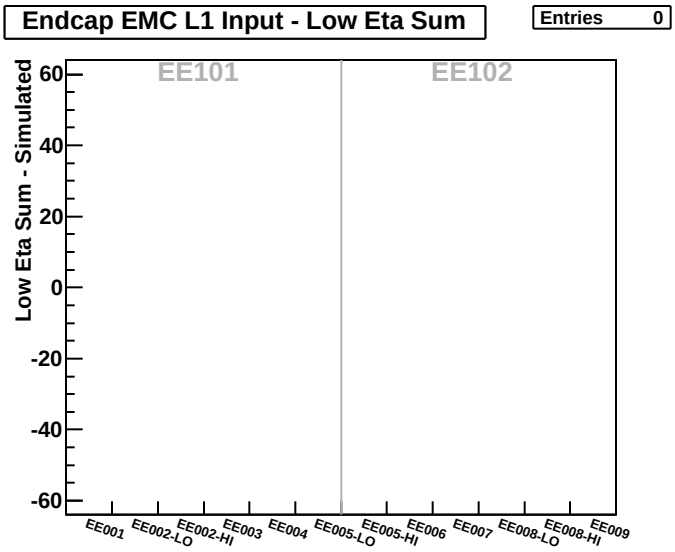

Barrel EMC L1 Input - High Eta Sum
Entries 720000
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

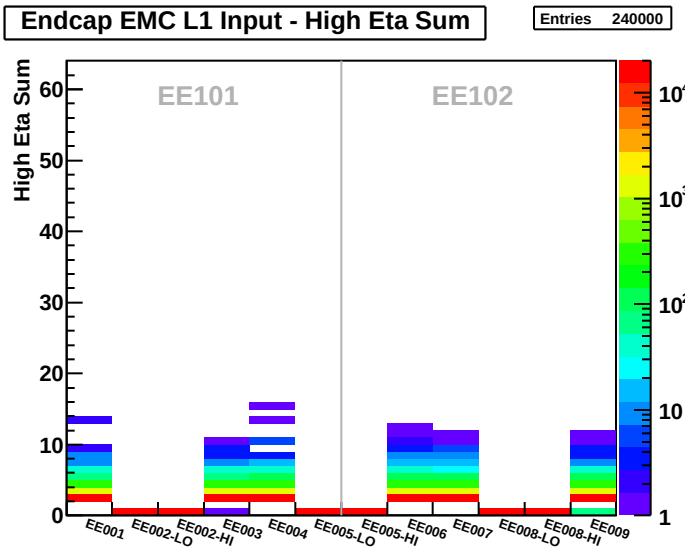

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

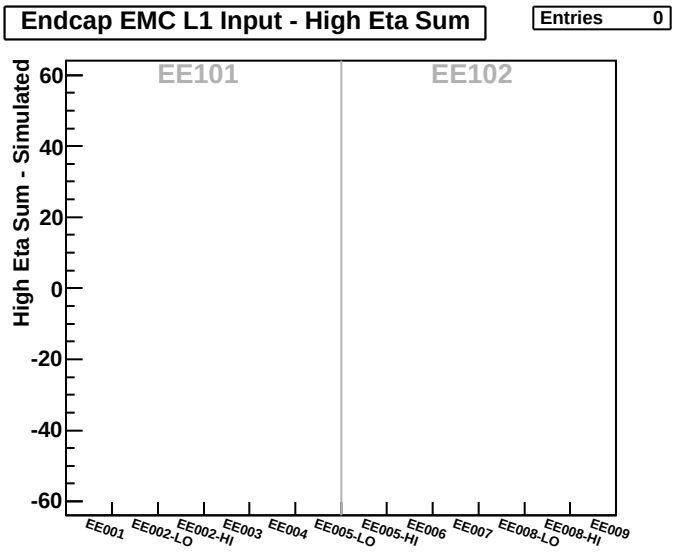

Barrel EMC L1 Input - High Tower Bits
Entries 720000
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

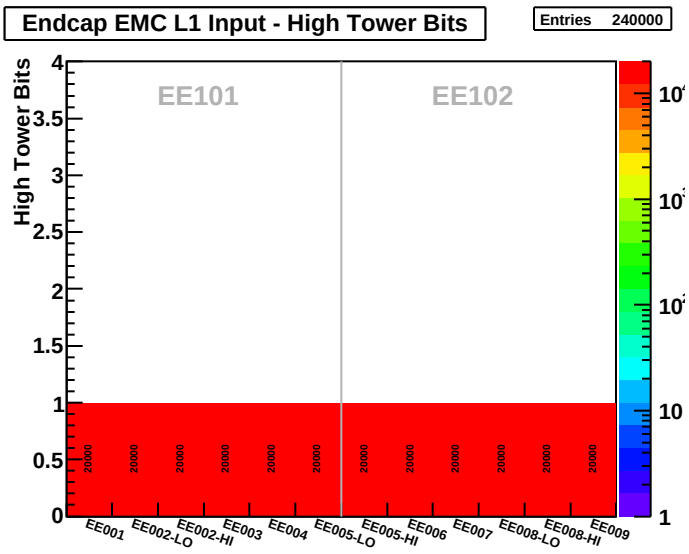

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

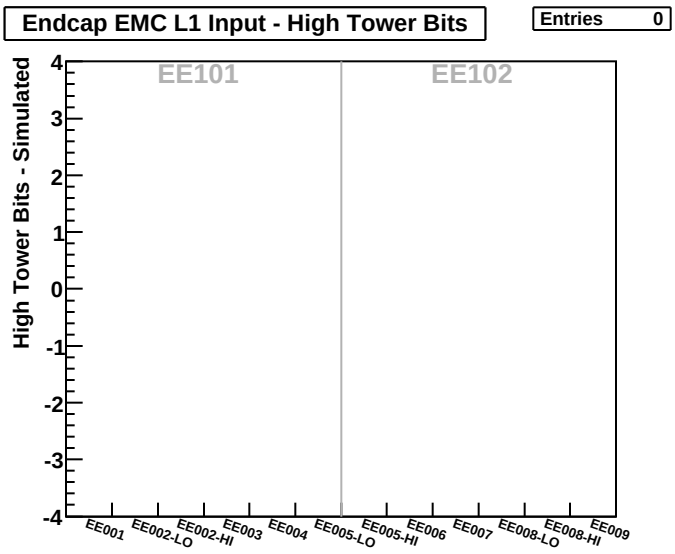

Endcap EMC L1 Input - Low Eta Sum
Entries 240000
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

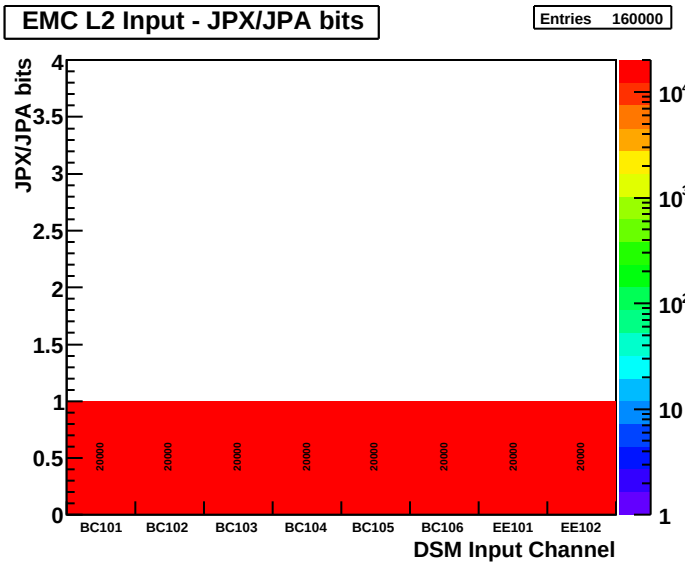

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

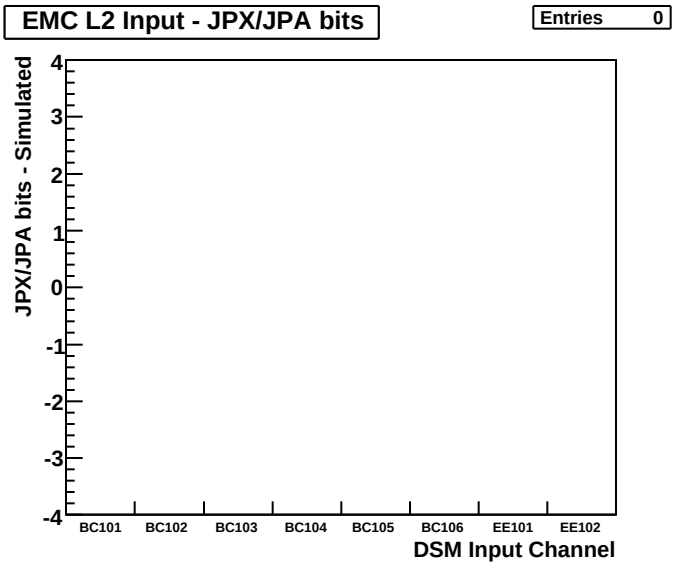

Endcap EMC L1 Input - High Eta Sum
Entries 240000
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

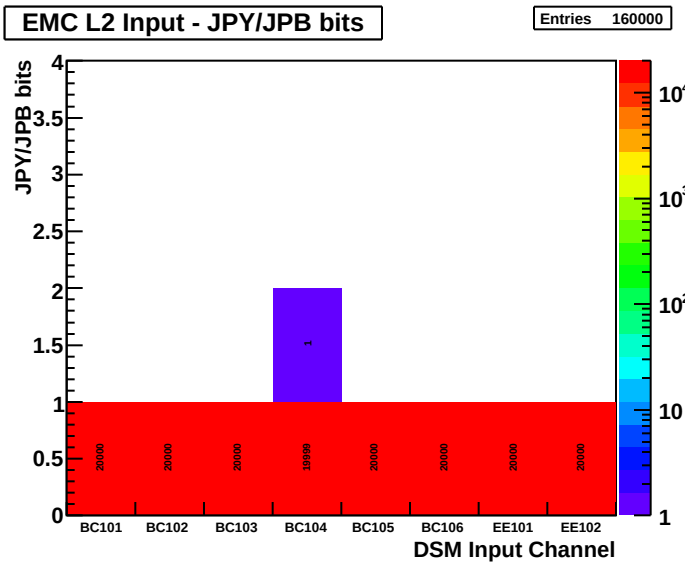

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

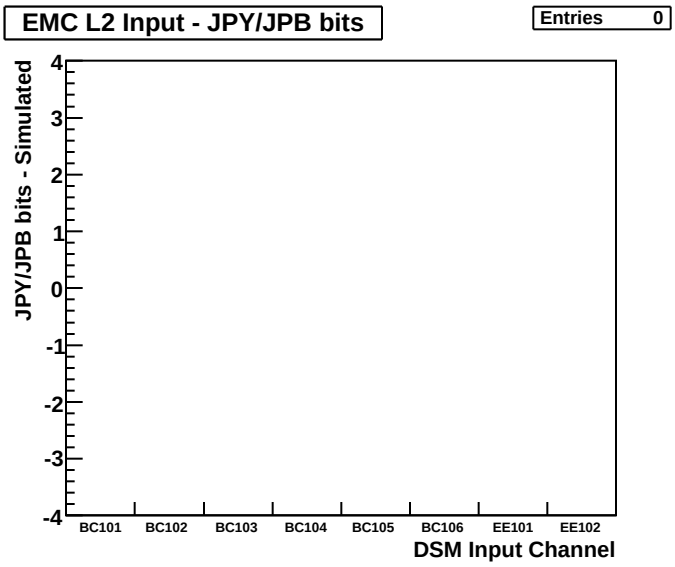

Endcap EMC L1 Input - High Tower Bits
Entries 240000
High Tower Bits
EE101
EE102
20000
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

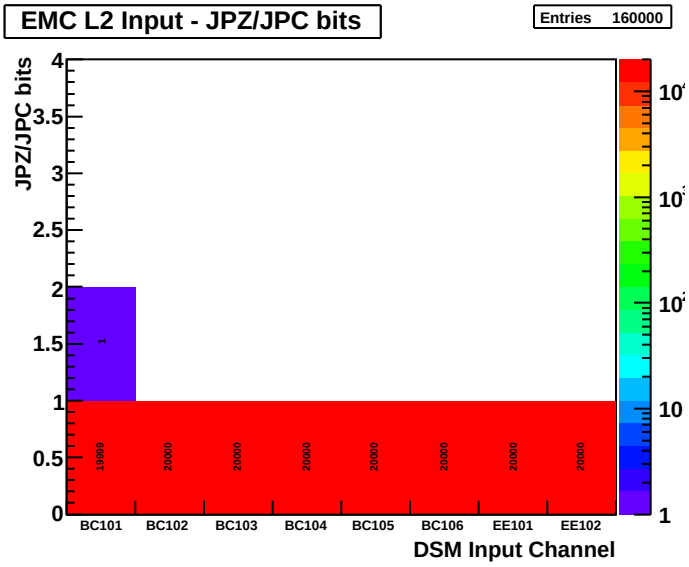

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

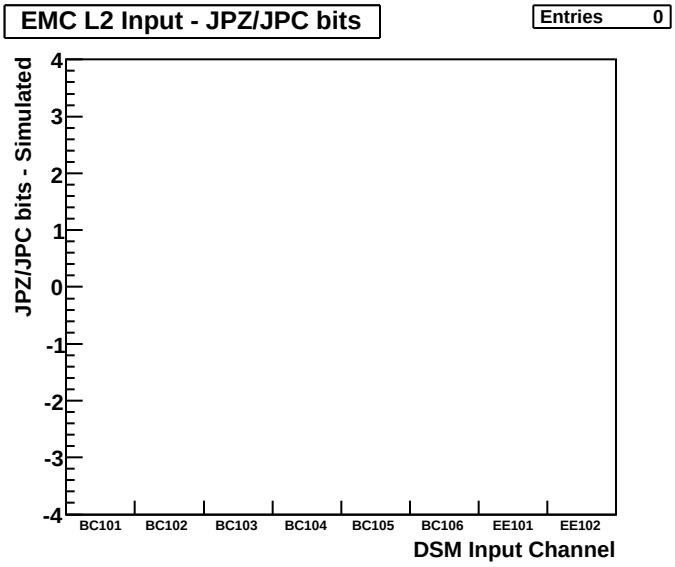

EMC L2 Input - JPX/JPA bits
Entries 160000
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
20000 20000 20000 20000 20000 20000 20000 20000

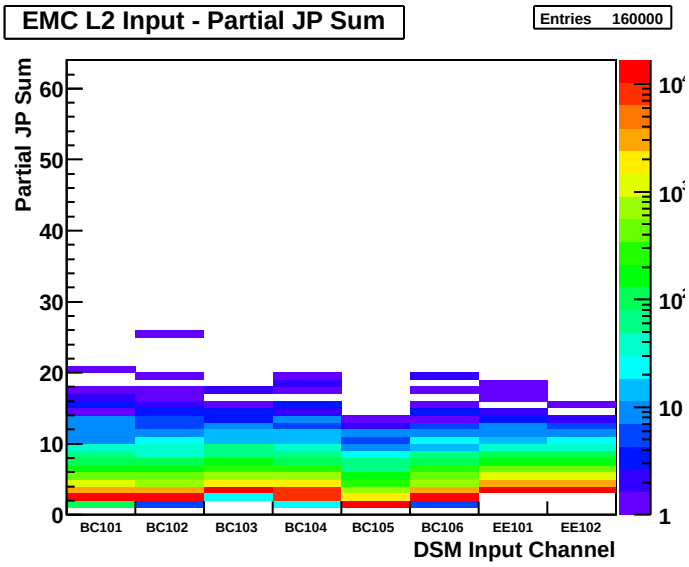

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

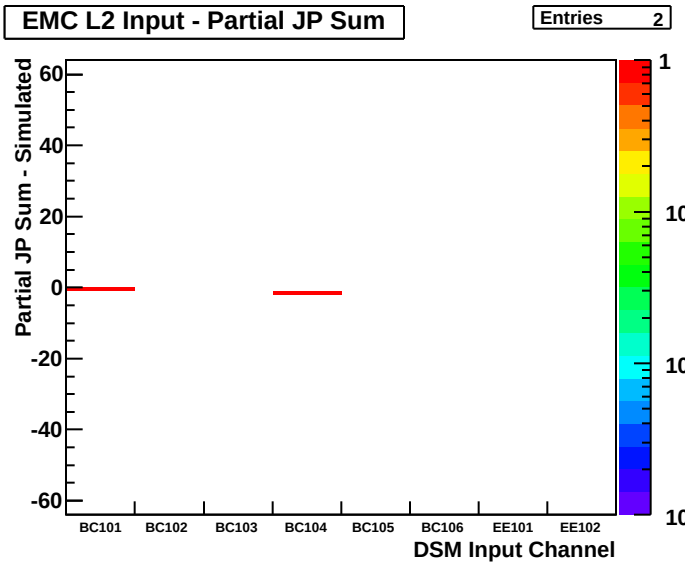

EMC L2 Input - JPY/JPB bits
Entries 160000
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
20000 20000 20000 19999 20000 20000 20000 20000
1

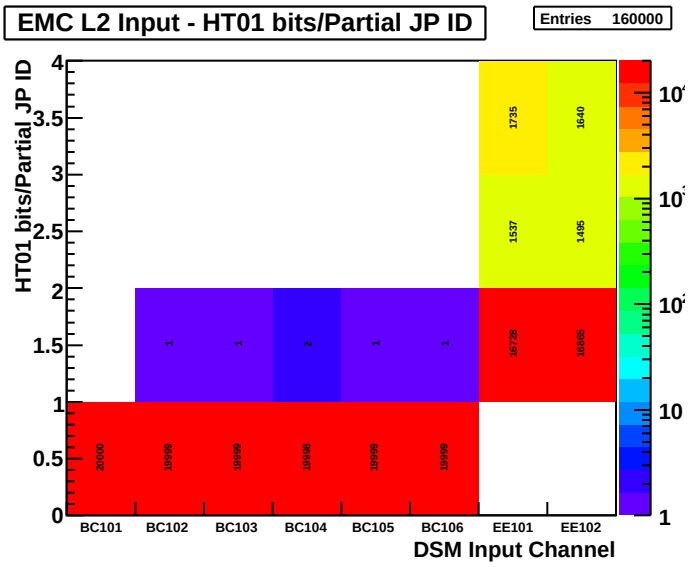

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

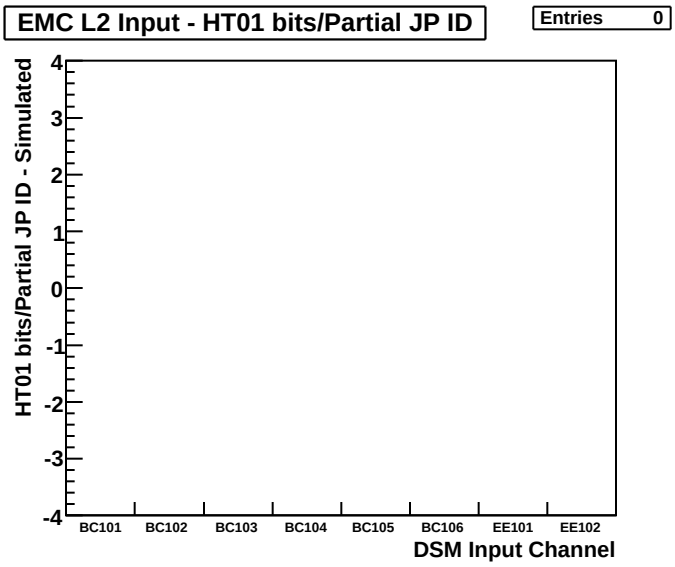

EMC L2 Input - JPZ/JPC bits
Entries 160000
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
19999 20000 20000 20000 20000 20000 20000 20000
1

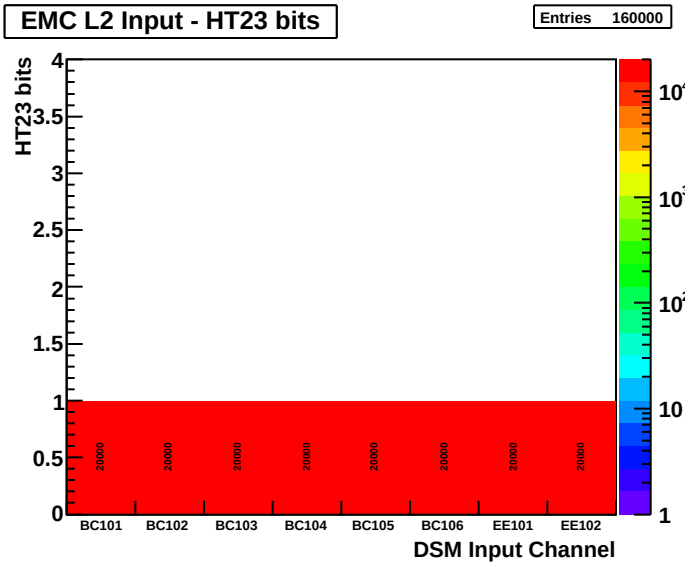

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

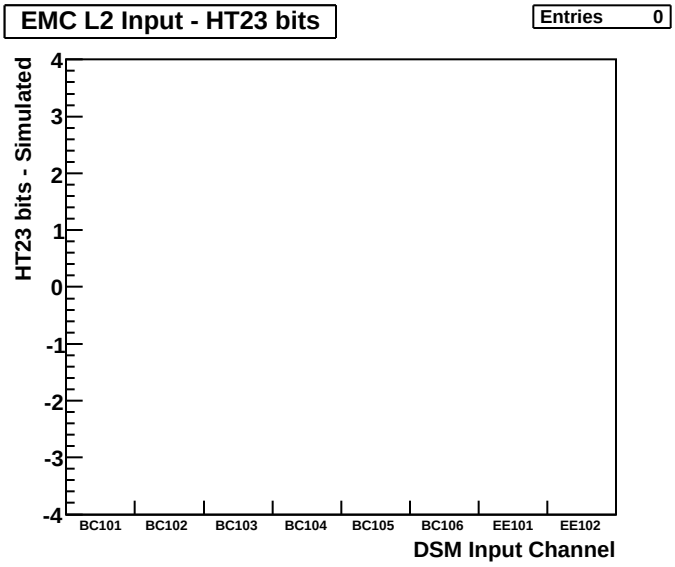

EMC L2 Input - Partial JP Sum
Entries 160000
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

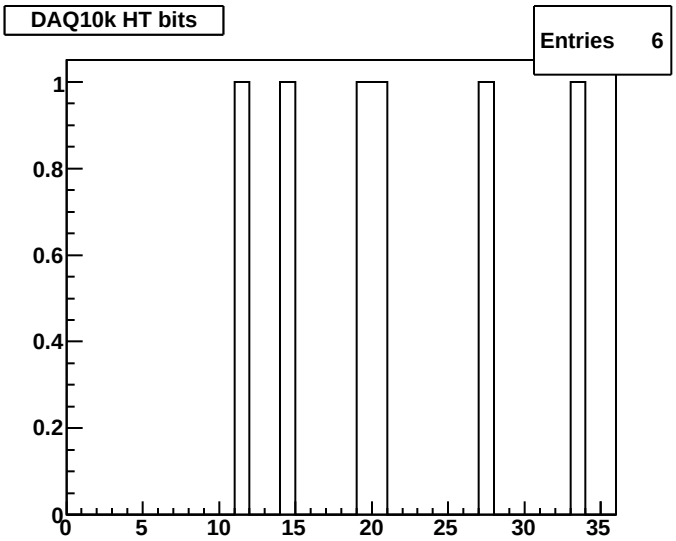

EMC L2 Input - Partial JP Sum
Entries 2
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

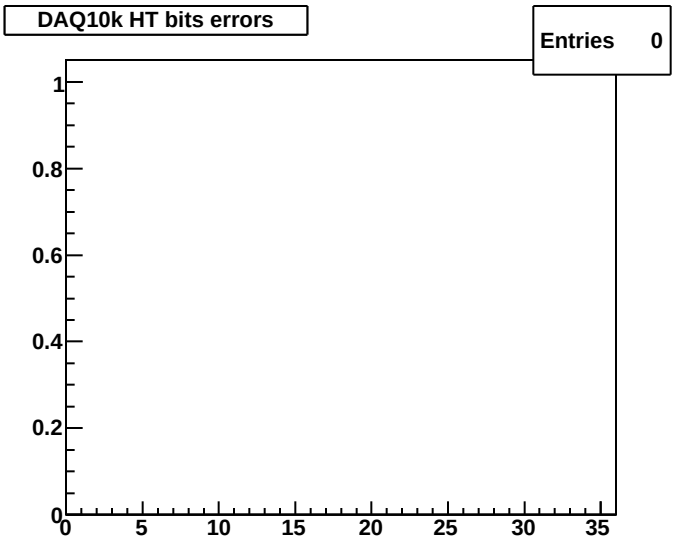

EMC L2 Input - HT01 bits/Partial JP ID
Entries 160000
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

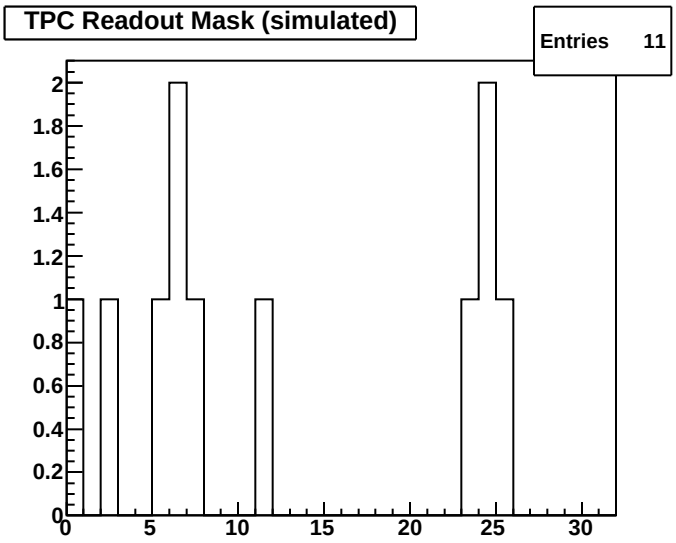

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

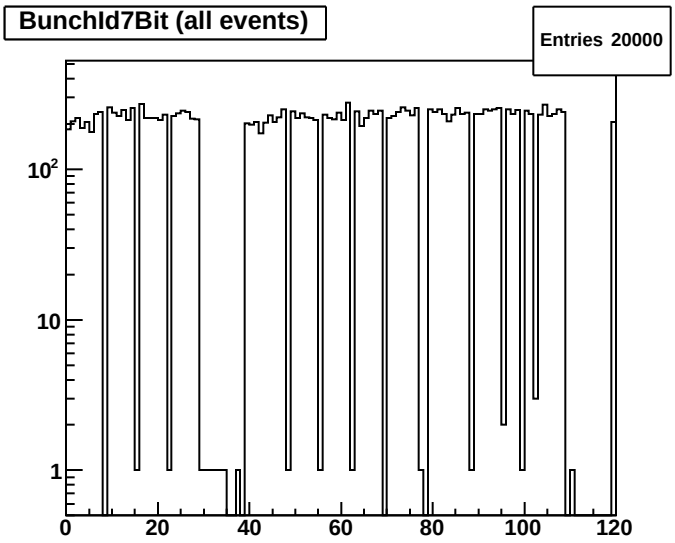

EMC L2 Input - HT23 bits
Entries 160000
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

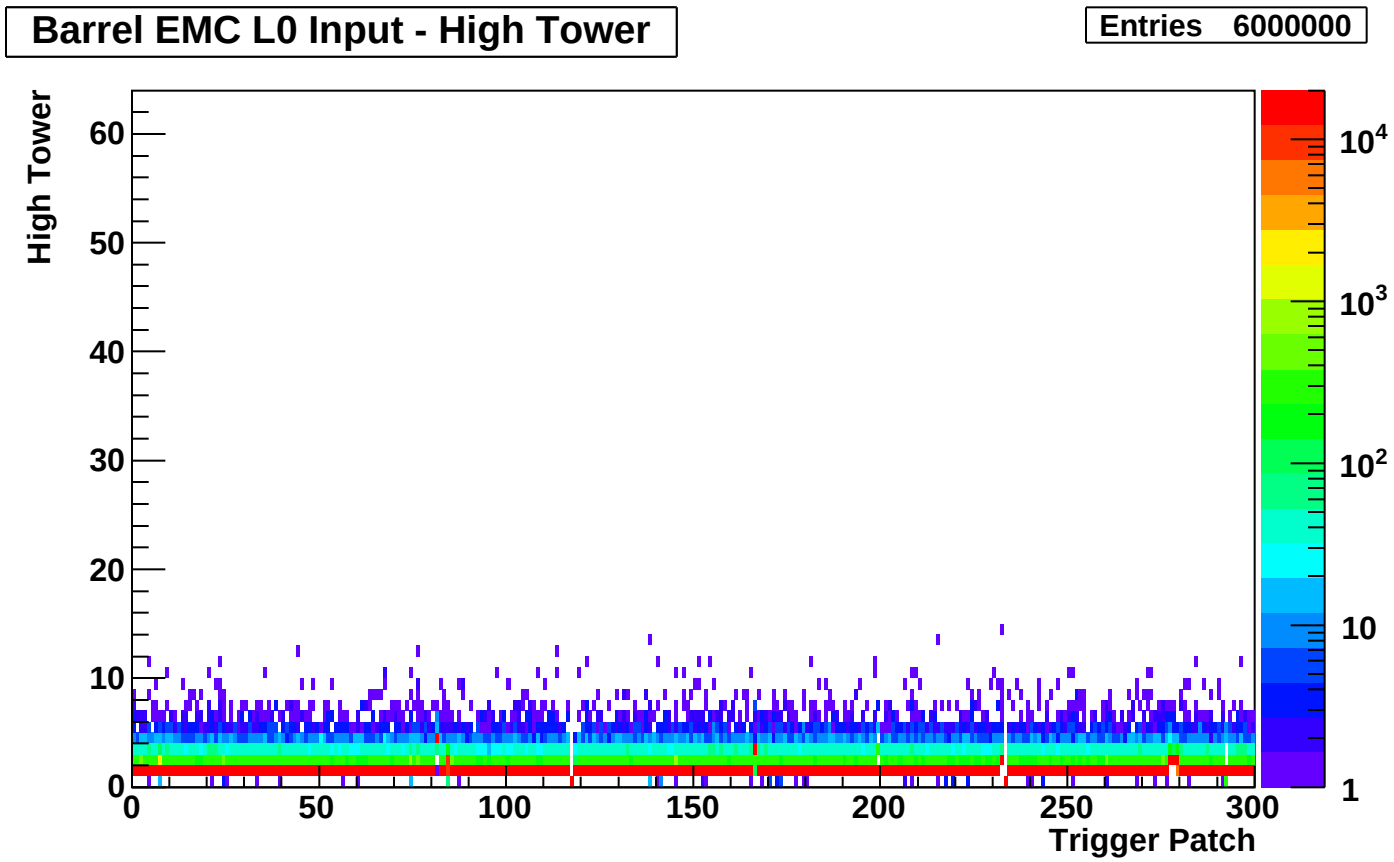

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

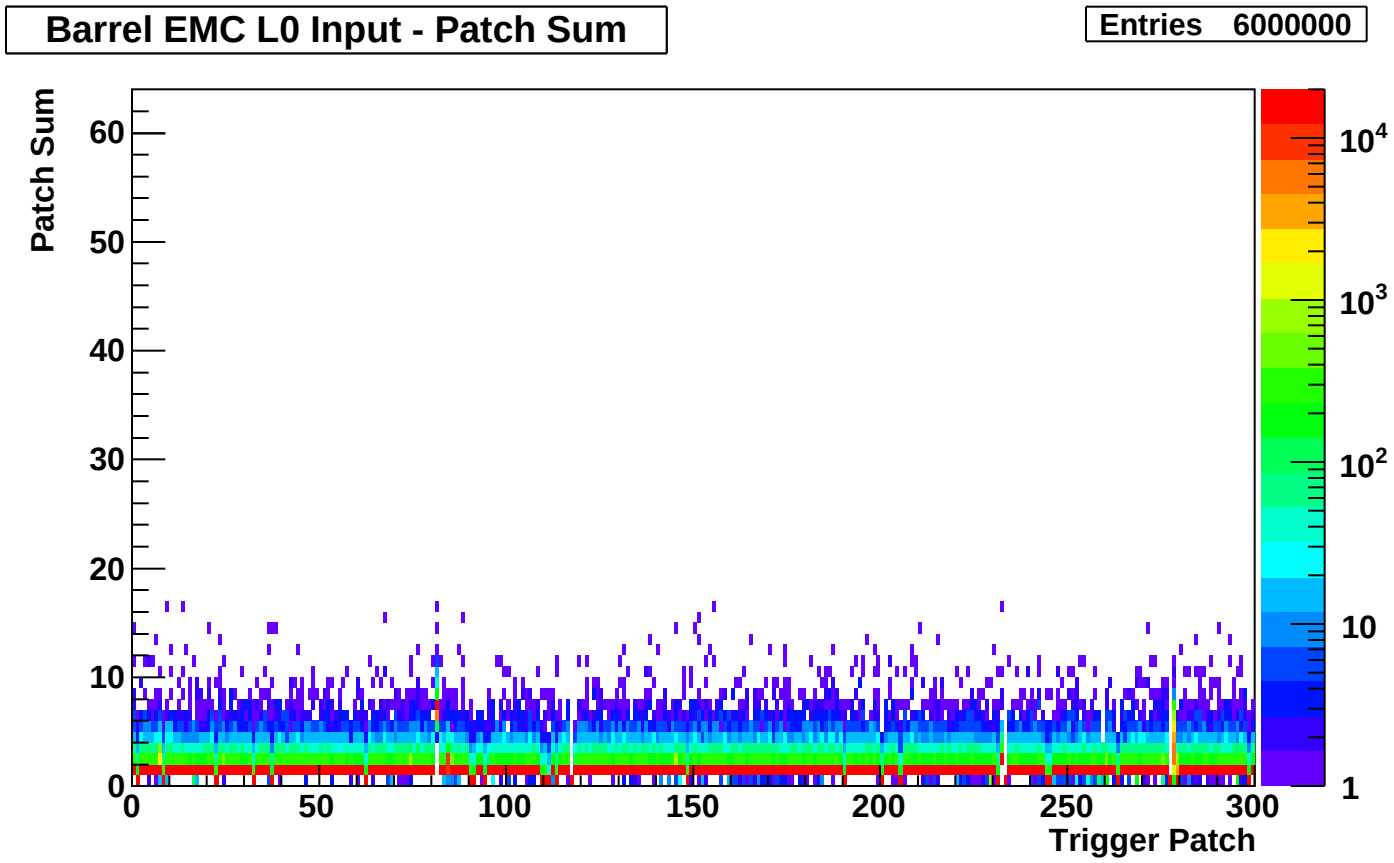

DAQ10k HT bits
Entries 6

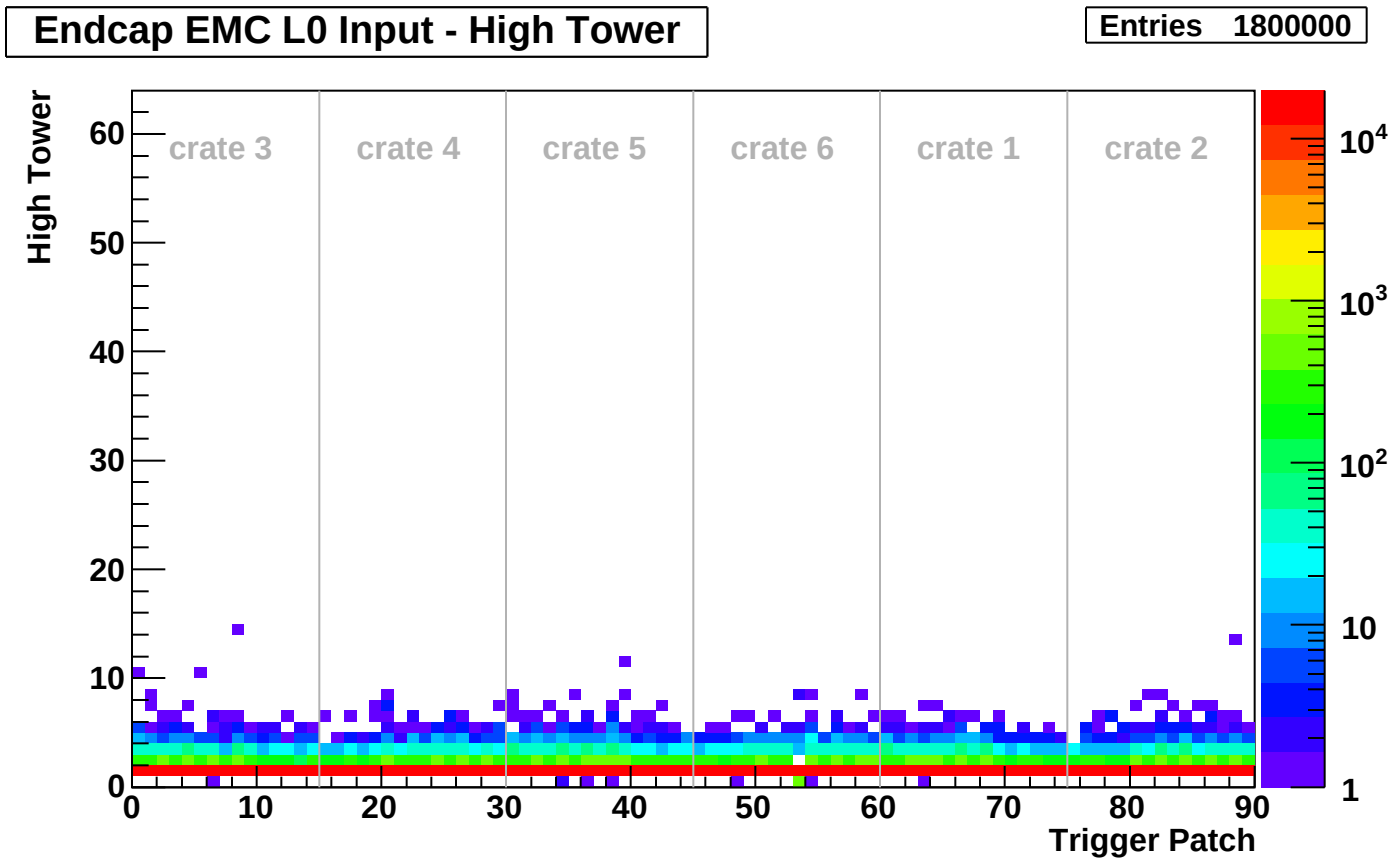

DAQ10k HT bits errors
Entries 0

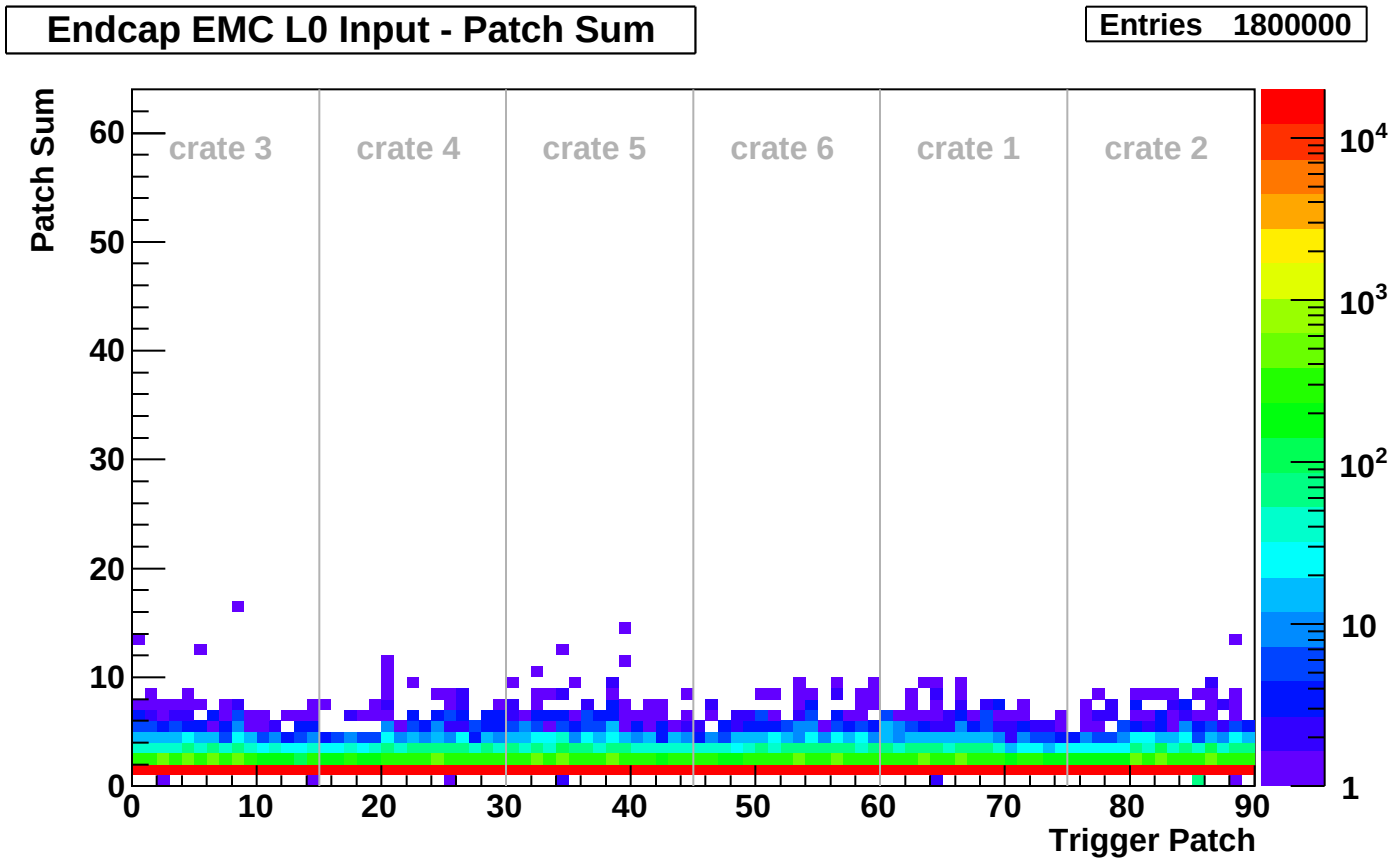

TPC Readout Mask (simulated)
Entries 11

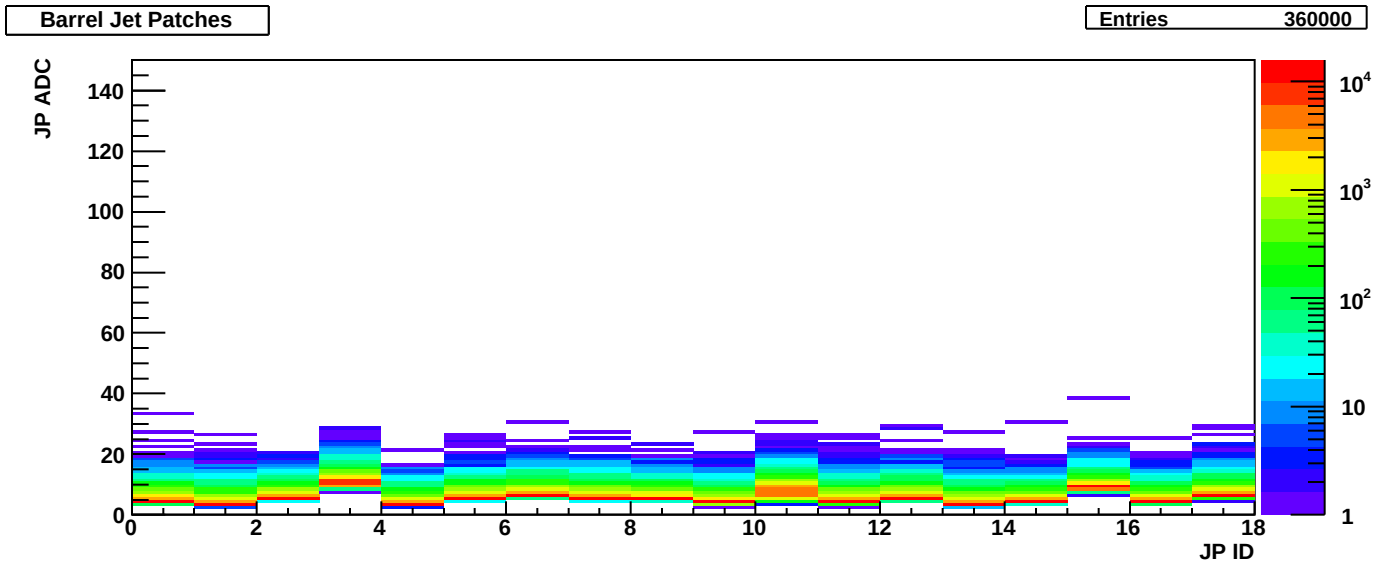

BunchId7Bit (all events)
Entries 20000

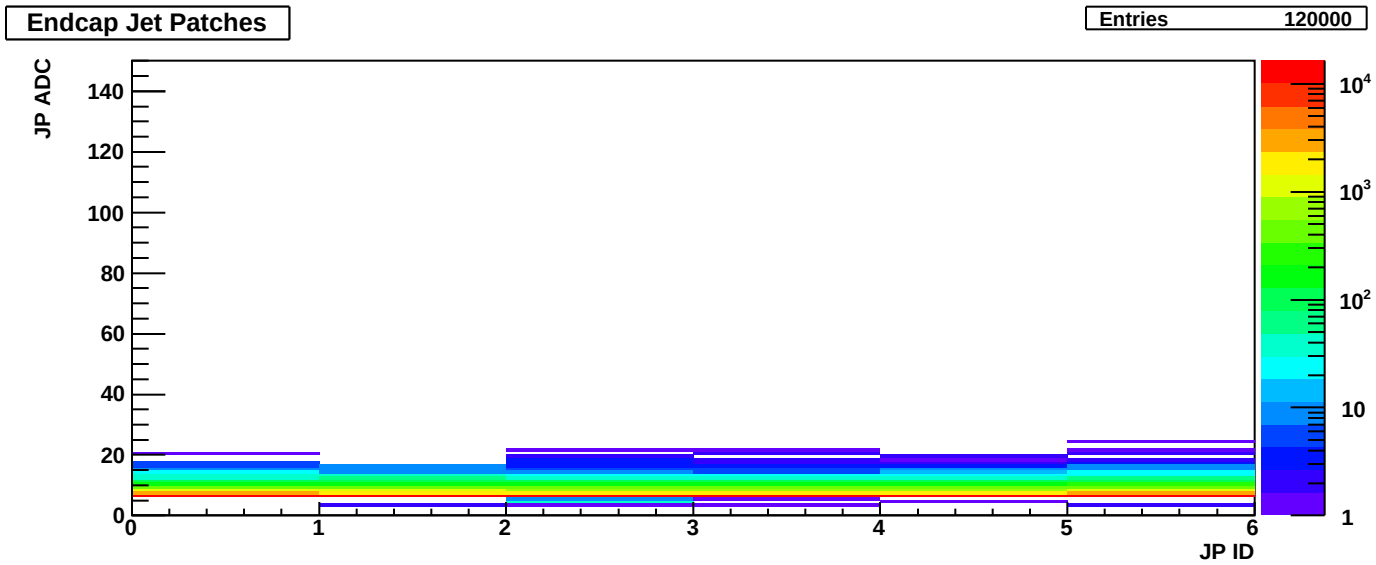

Barrel EMC L0 Input - High Tower
Entries 6000000
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

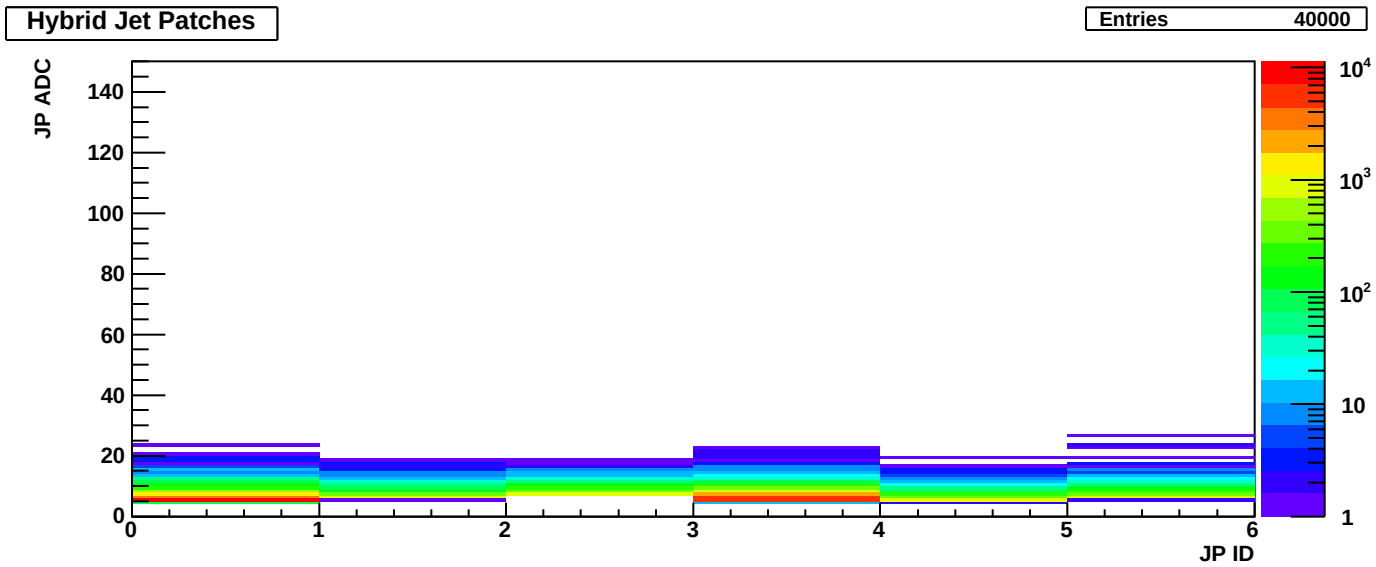

Barrel EMC L0 Input - Patch Sum
Entries 6000000
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

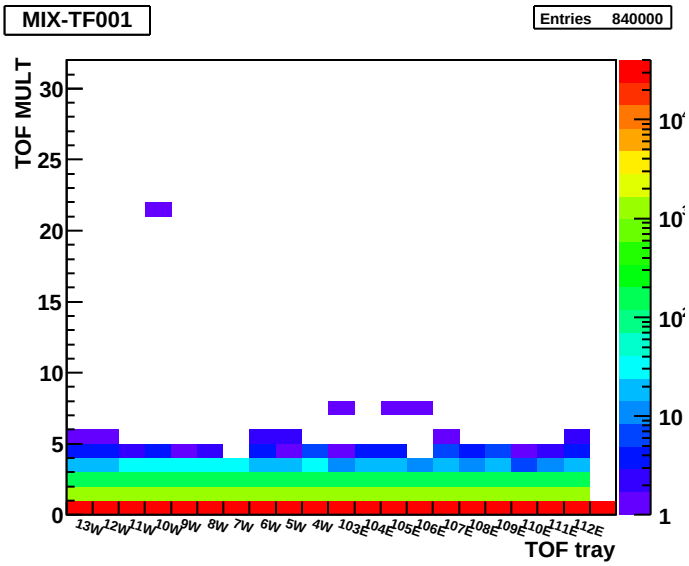

Endcap EMC L0 Input - High Tower
Entries 1800000
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

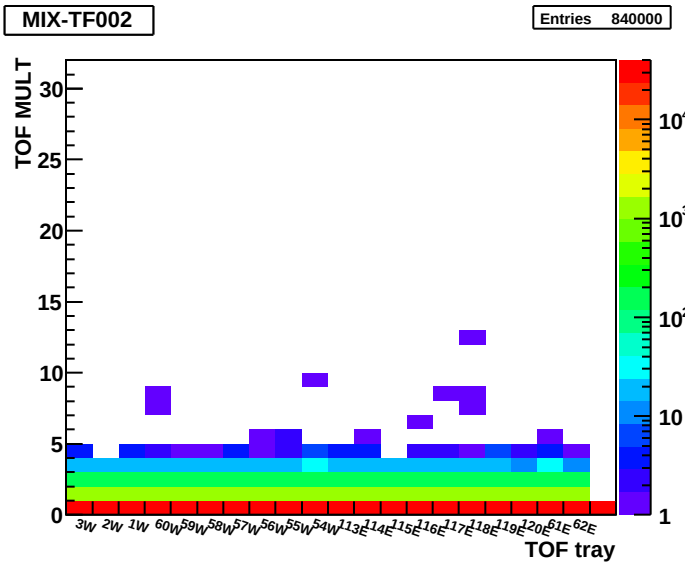

Endcap EMC L0 Input - Patch Sum
Entries 1800000
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

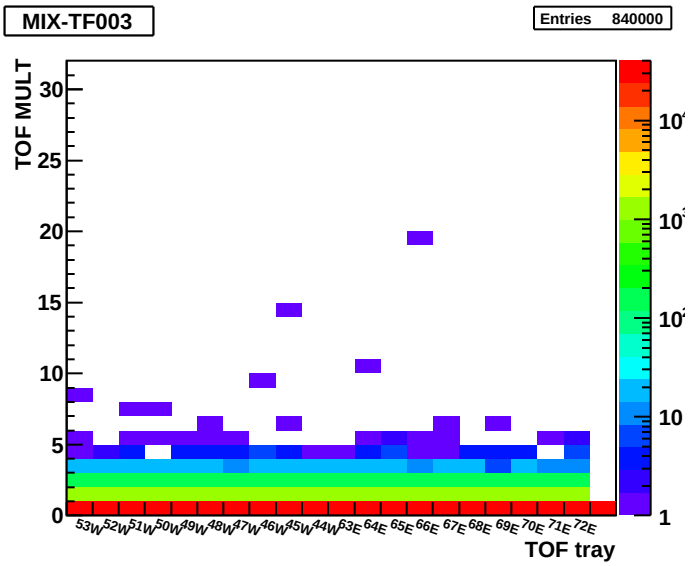

Barrel Jet Patches
Entries 360000
JP ADC
JP ID

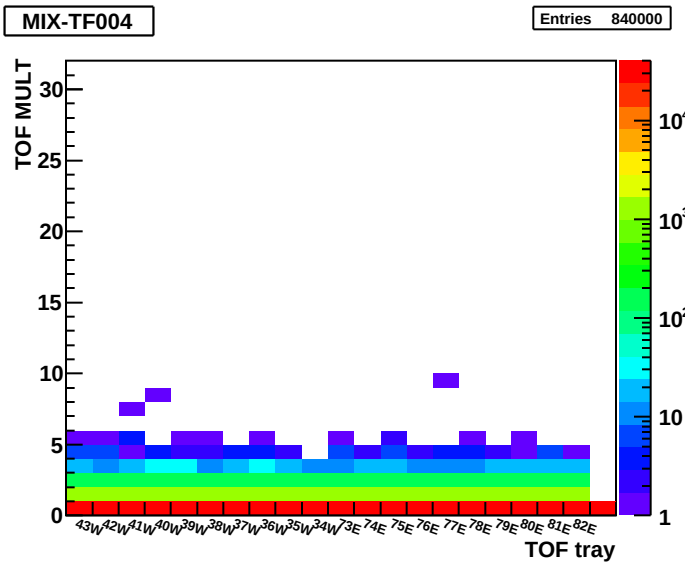

Endcap Jet Patches
Entries 120000
JP ADC
JP ID

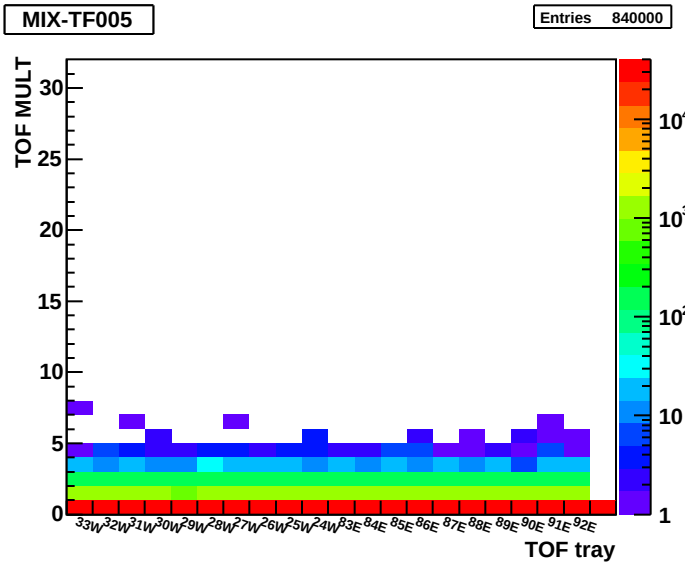

Hybrid Jet Patches
Entries 40000
JP ADC
JP ID

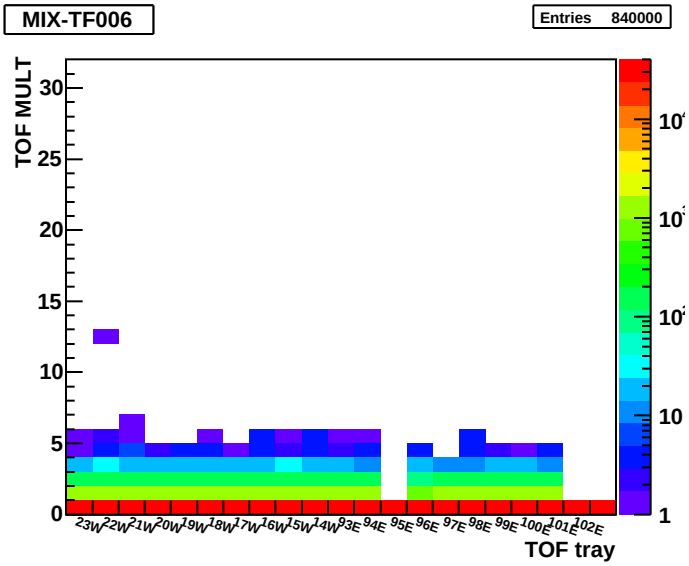

MIX-TF001
Entries 840000
TOF MULT
TOF tray

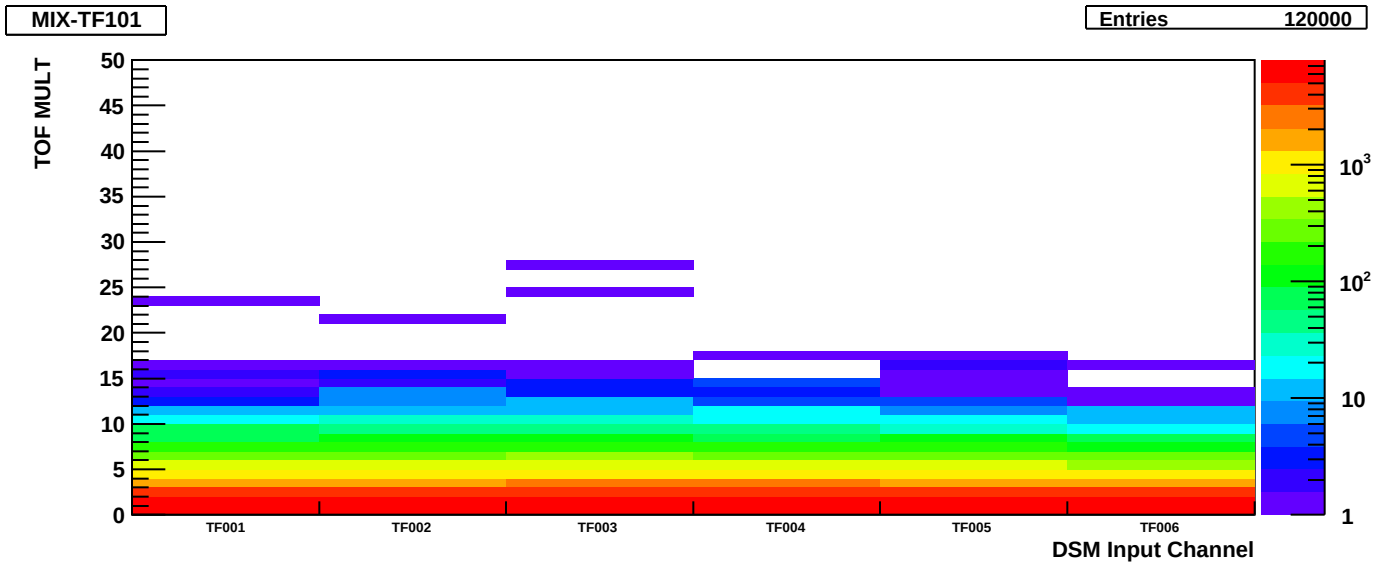

MIX-TF002
Entries 840000
TOF MULT
TOF tray

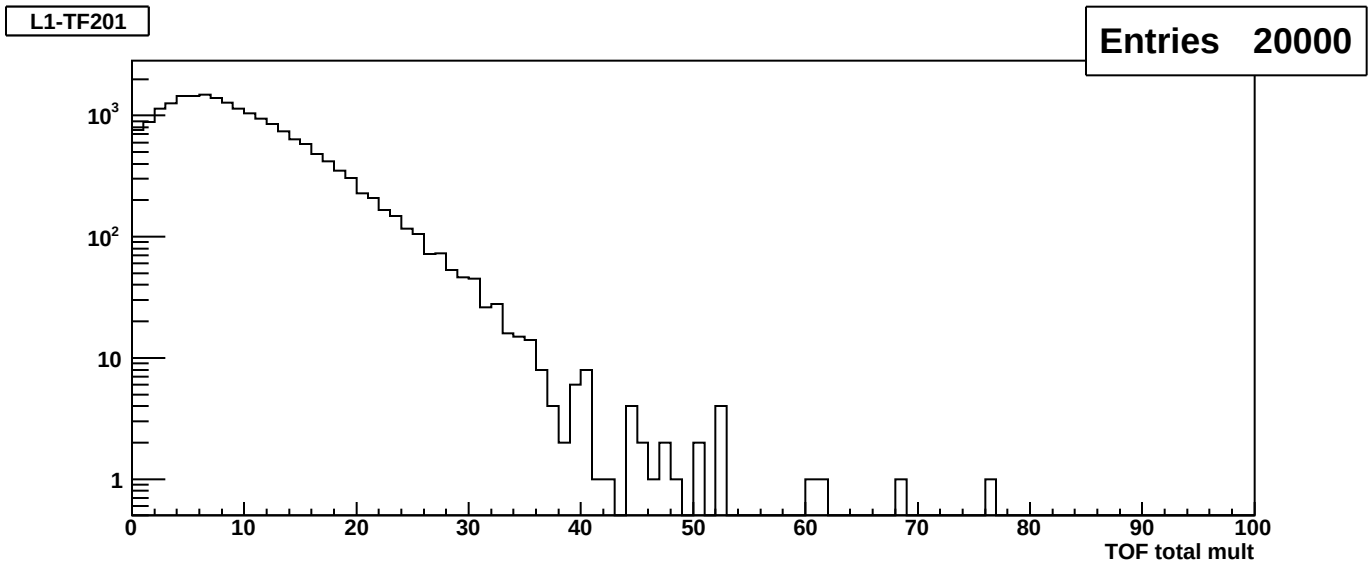

MIX-TF003
Entries 840000
TOF MULT
TOF tray

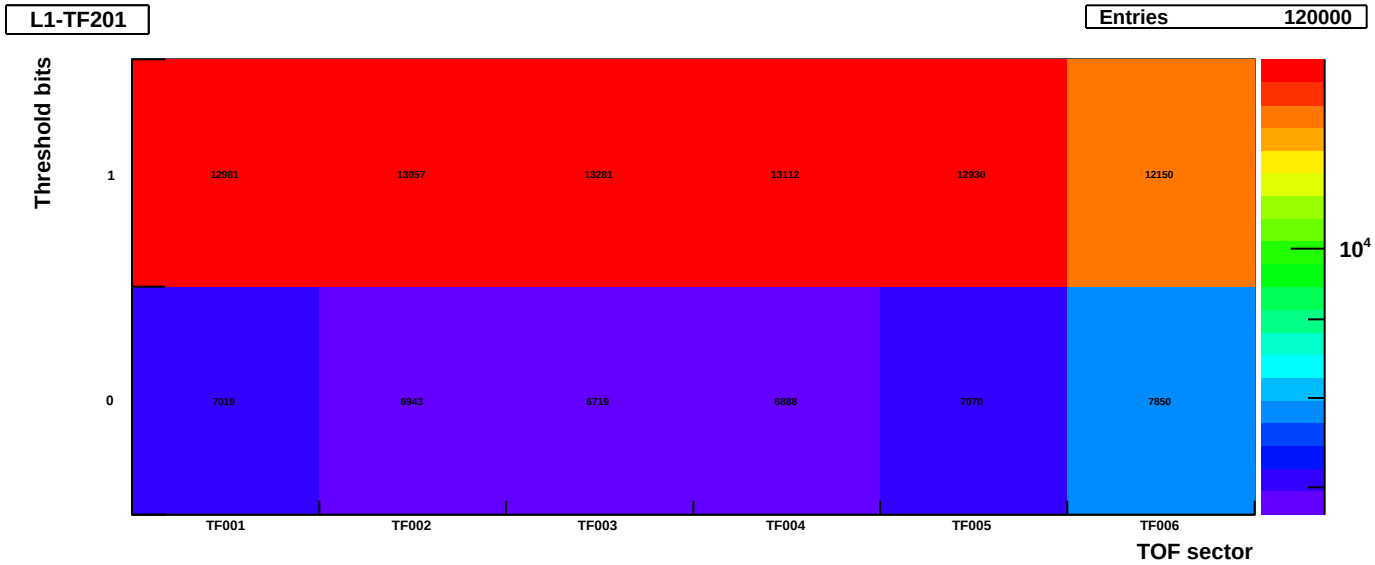

MIX-TF004
Entries 840000
TOF MULT
TOF tray

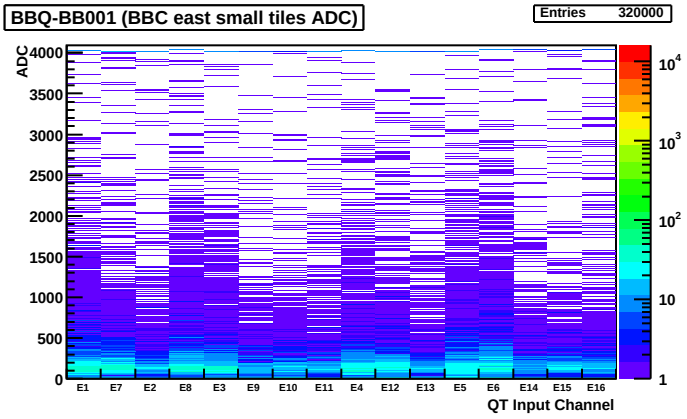

MIX-TF005
Entries 840000
TOF MULT
TOF tray

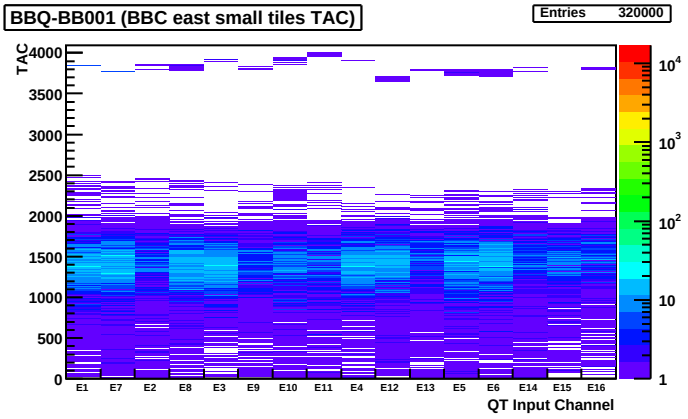

MIX-TF006
Entries 840000
TOF MULT
TOF tray

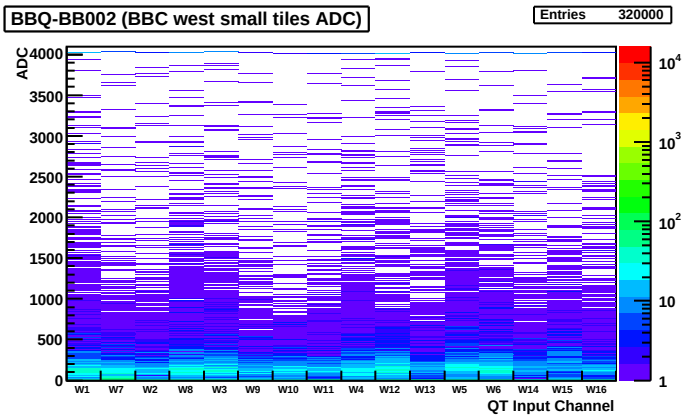

MIX-TF101
Entries 120000
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

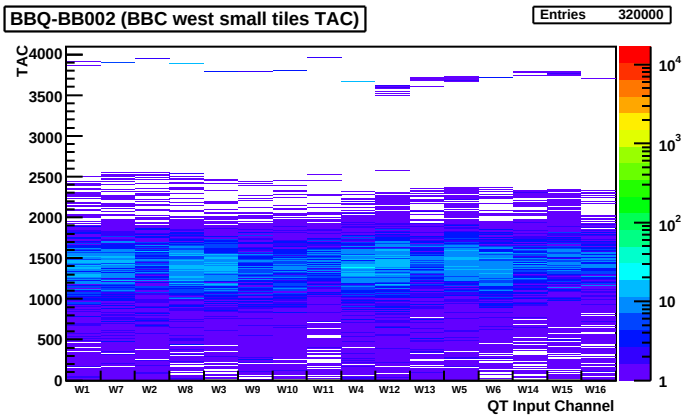

L1-TF201
Entries 20000
TOF total mult

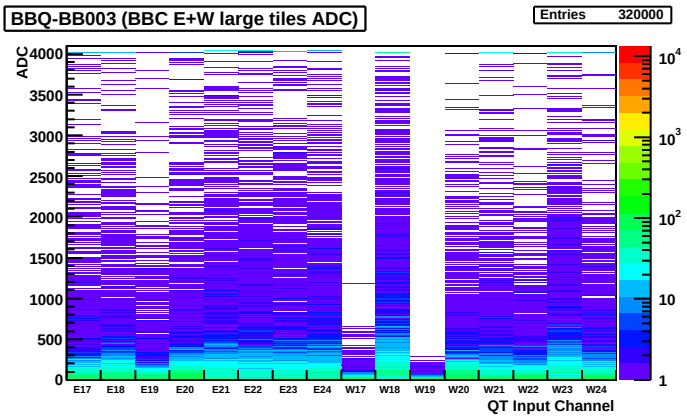

L1-TF201
Entries 120000
Threshold bits
12981
13057
13281
13112
12930
12150
7019
6943
6719
6888
7070
7850
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

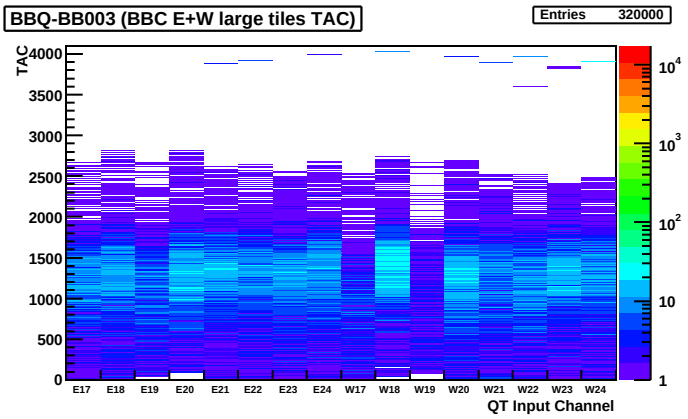

BBQ-BB001 (BBC east small tiles ADC)
Entries 320000
ADC
QT Input Channel

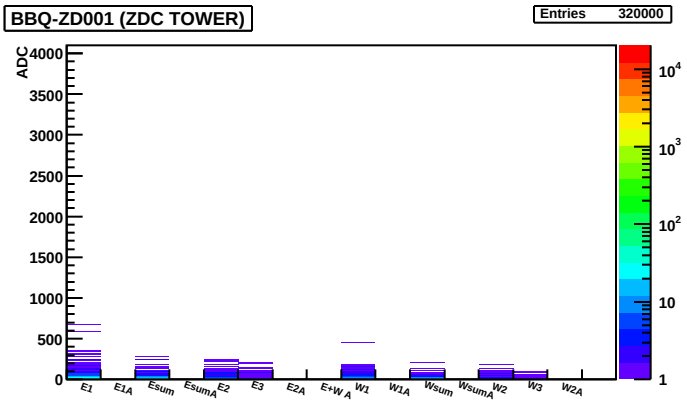

BBQ-BB001 (BBC east small tiles TAC)
Entries 320000
TAC
QT Input Channel

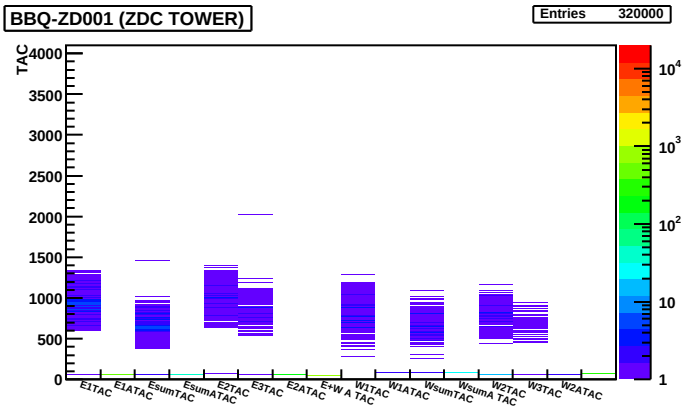

BBQ-BB002 (BBC west small tiles ADC)
Entries 320000
ADC
QT Input Channel

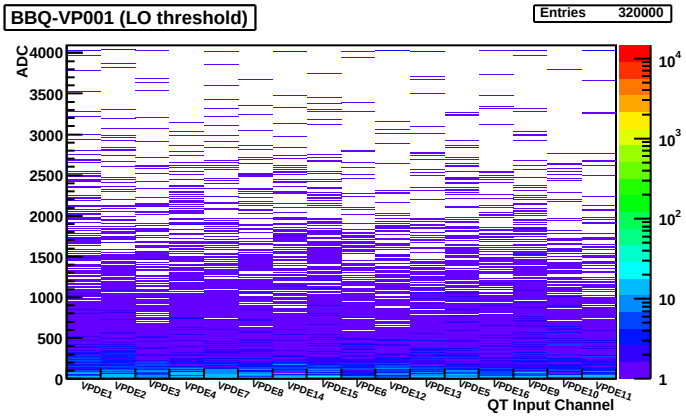

BBQ-BB002 (BBC west small tiles TAC)
Entries 320000
TAC
QT Input Channel

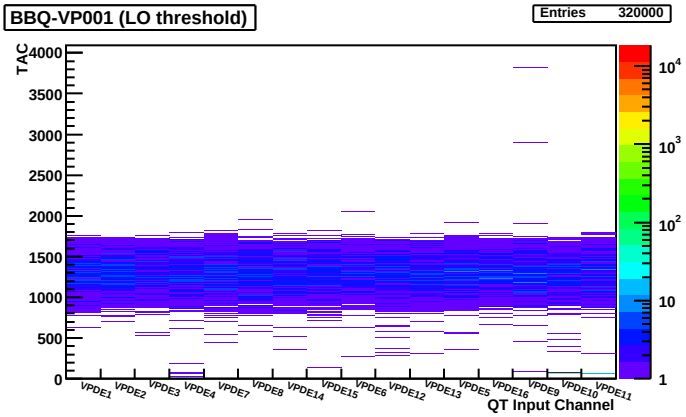

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 320000
ADC
QT Input Channel

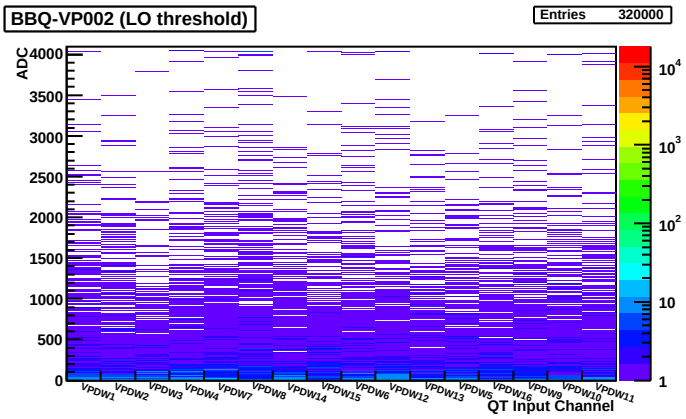

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 320000
TAC
QT Input Channel

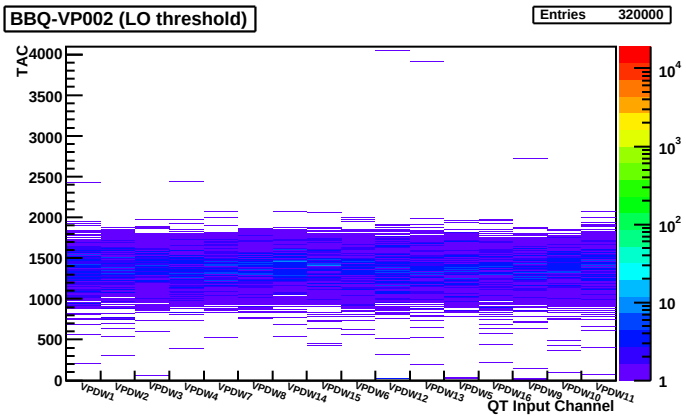

BBQ-ZD001 (ZDC TOWER)
Entries 320000
ADC

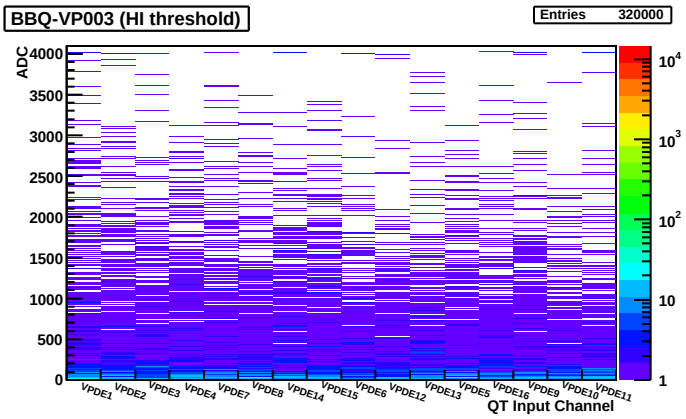

BBQ-ZD001 (ZDC TOWER)
Entries 320000
TAC

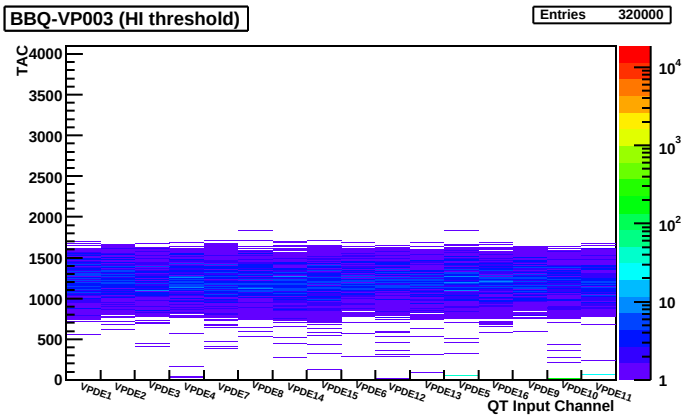

BBQ-VP001 (LO threshold)
Entries 320000
ADC
QT Input Channel

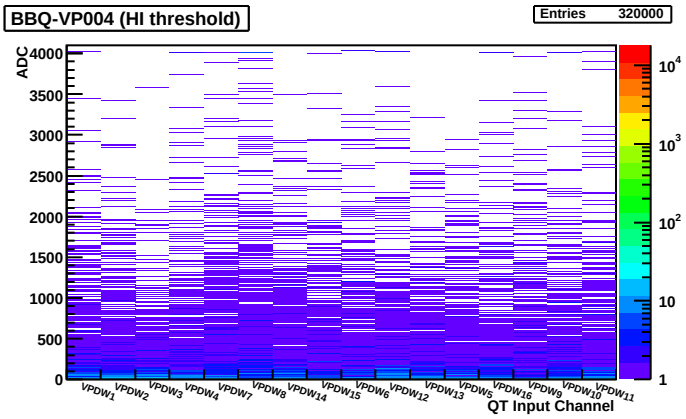

BBQ-VP001 (LO threshold)
Entries 320000
TAC
QT Input Channel

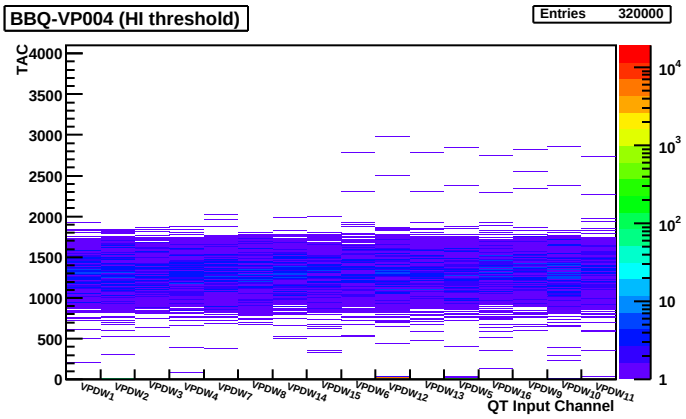

BBQ-VP002 (LO threshold)
Entries 320000
ADC
QT Input Channel

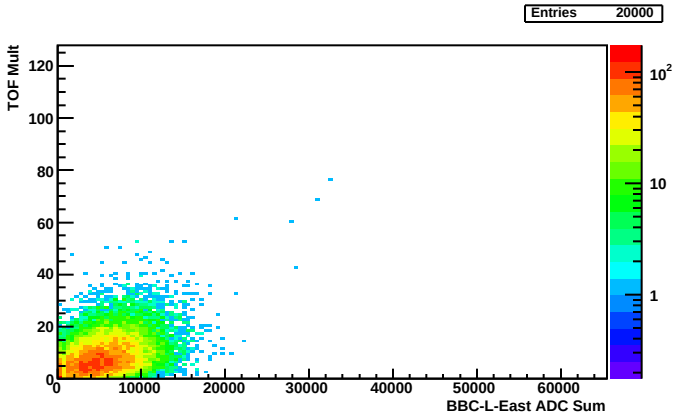

BBQ-VP002 (LO threshold)
Entries 320000
TAC
QT Input Channel

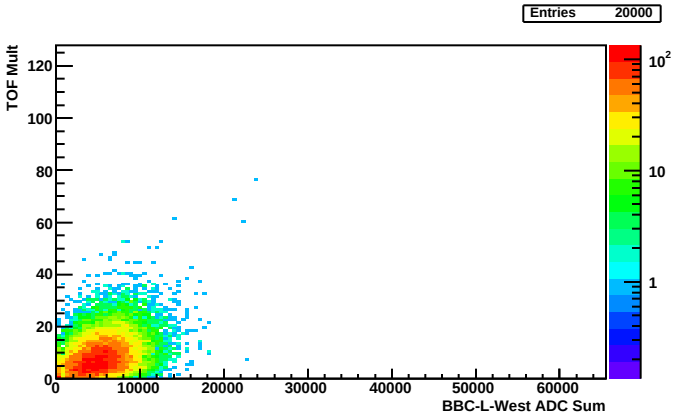

BBQ-VP003 (HI threshold)
Entries 320000
ADC
QT Input Channel

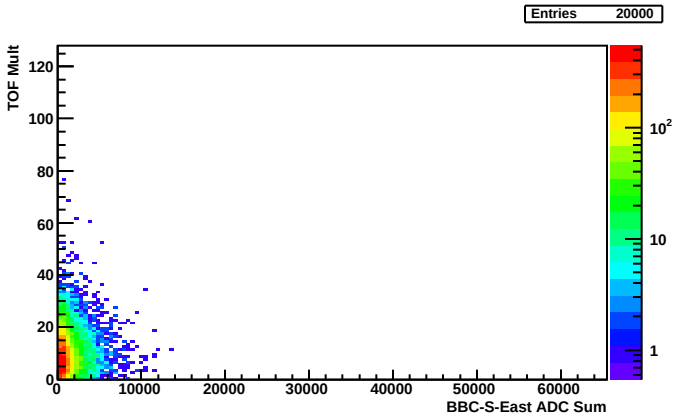

BBQ-VP003 (HI threshold)
Entries 320000
TAC
QT Input Channel

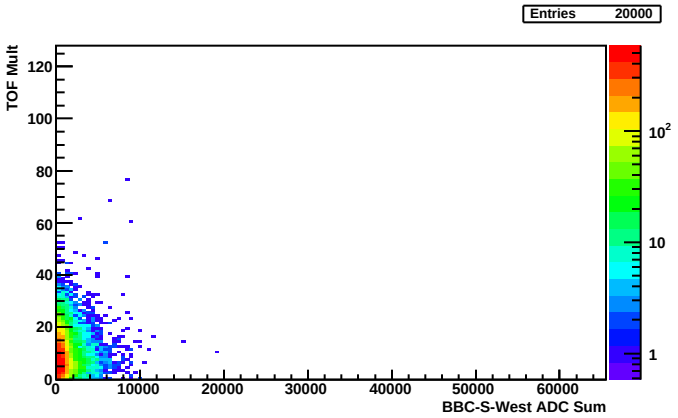

BBQ-VP004 (HI threshold)
Entries 320000
ADC
QT Input Channel

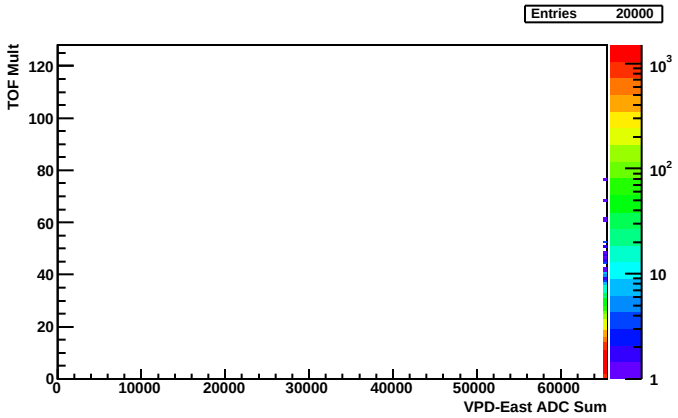

BBQ-VP004 (HI threshold)
Entries 320000
TAC
QT Input Channel

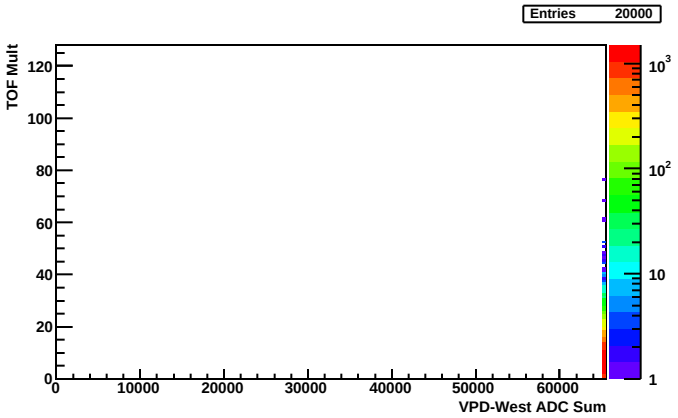

Entries 20000
TOF Mult
BBC-L-East ADC Sum

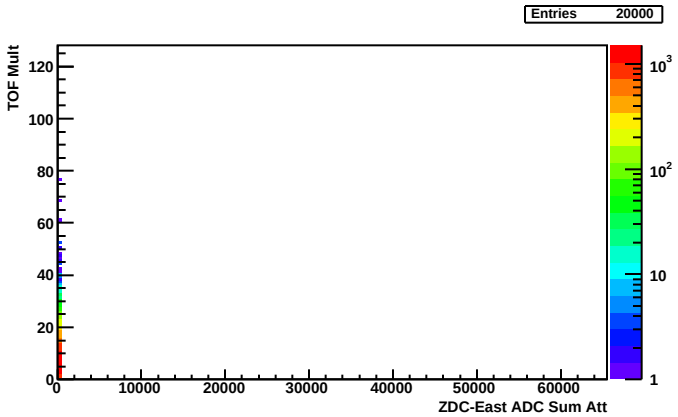

Entries 20000
TOF Mult
BBC-L-West ADC Sum

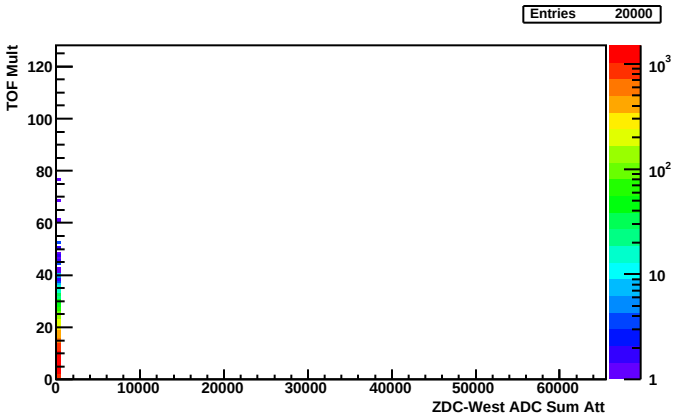

Entries 20000
TOF Mult
BBC-S-East ADC Sum

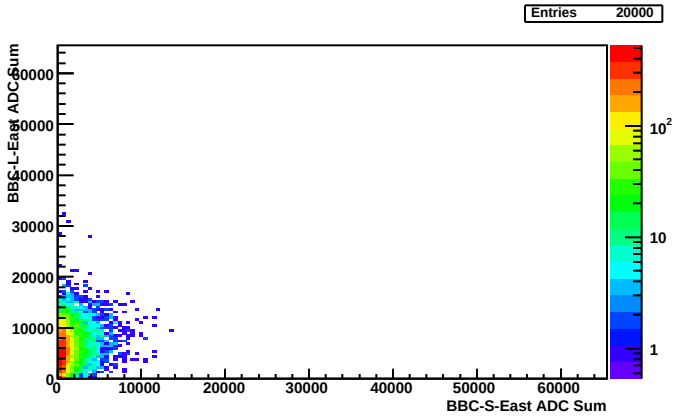

Entries 20000
TOF Mult
BBC-S-West ADC Sum

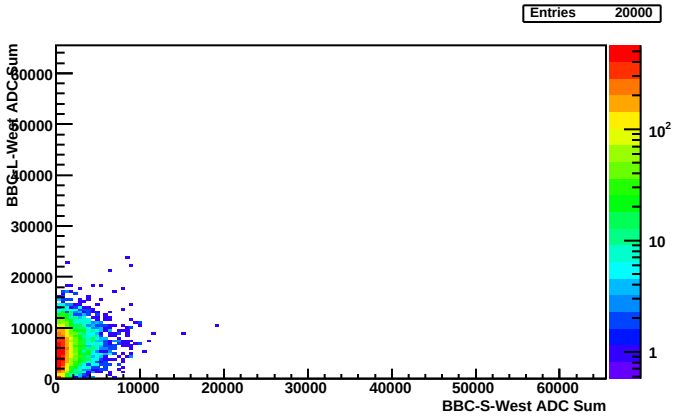

Entries 20000
TOF Mult
VPD-East ADC Sum

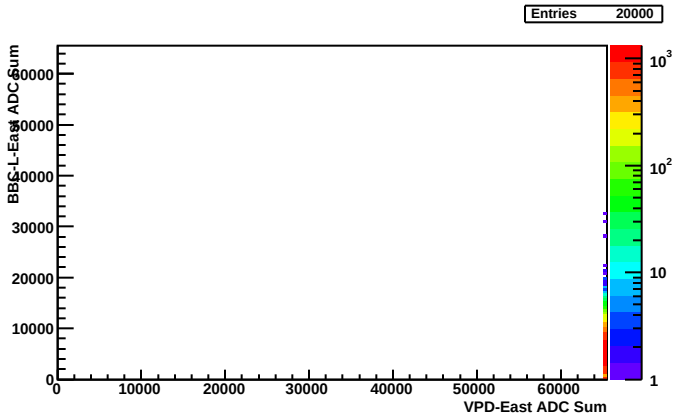

Entries 20000
TOF Mult
VPD-West ADC Sum

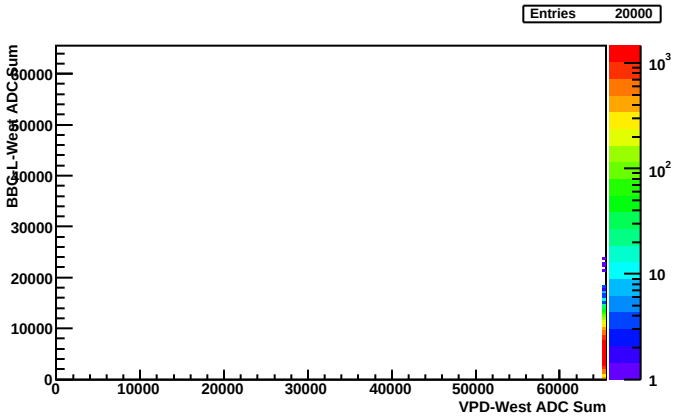

Entries 20000
TOF Mult
ZDC-East ADC Sum Att

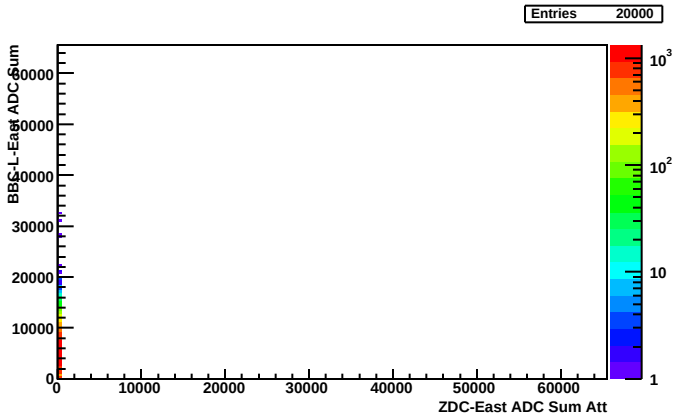

Entries 20000
TOF Mult
ZDC-West ADC Sum Att

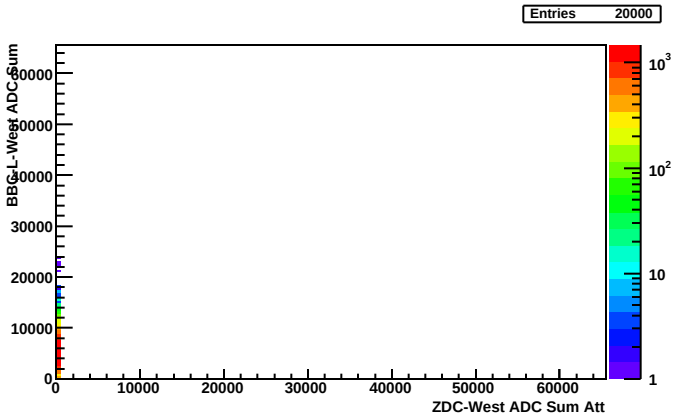

Entries 20000
BBC-L-East ADC Sum
BBC-S-East ADC Sum

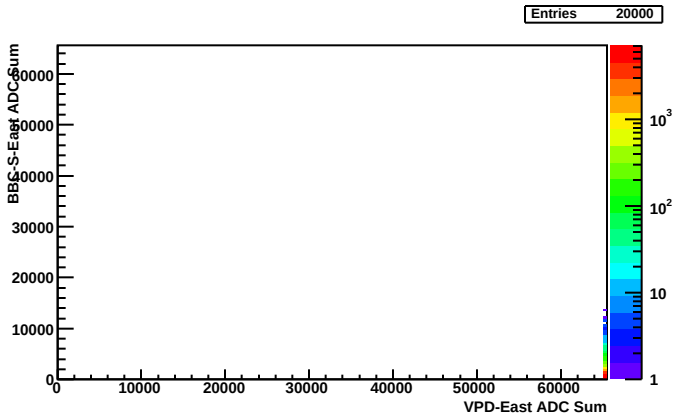

Entries 20000
BBC-L-West ADC Sum
BBC-S-West ADC Sum

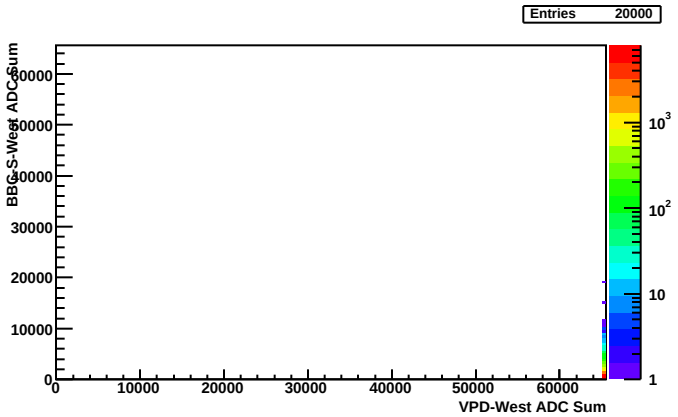

Entries 20000
BBC-L-East ADC Sum
VPD-East ADC Sum

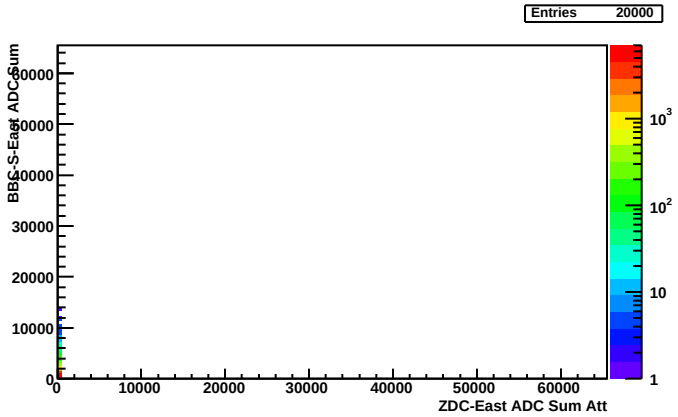

Entries 20000
BBC-L-West ADC Sum
VPD-West ADC Sum

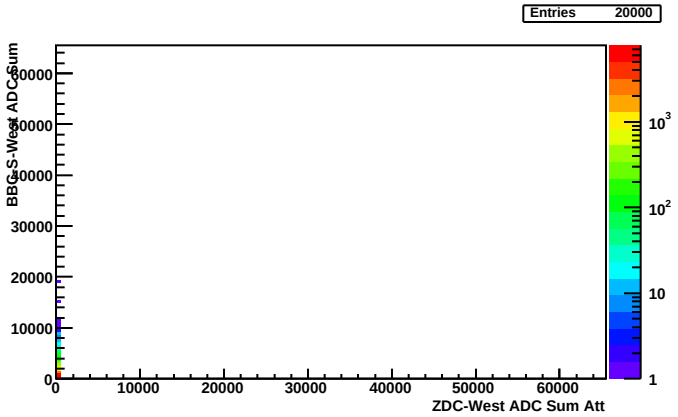

Entries 20000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

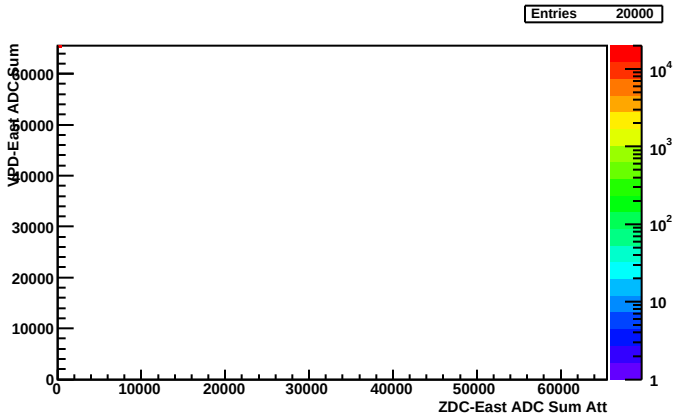

Entries 20000
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

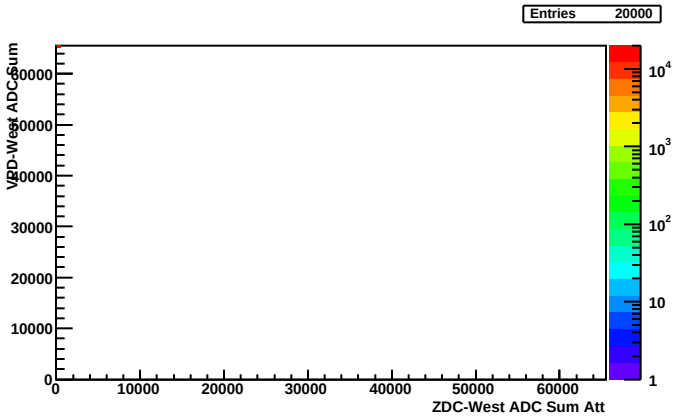

Entries 20000
BBC-S-East ADC Sum
VPD-East ADC Sum

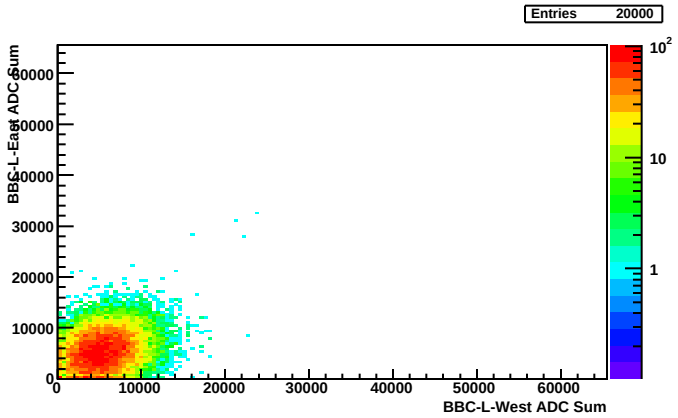

Entries 20000
BBC-S-West ADC Sum
VPD-West ADC Sum

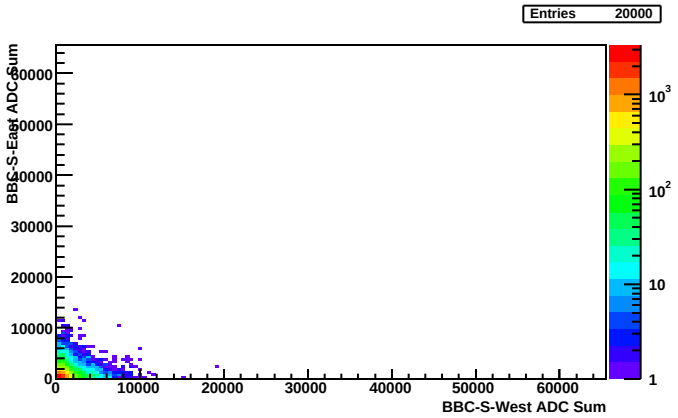

Entries 20000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

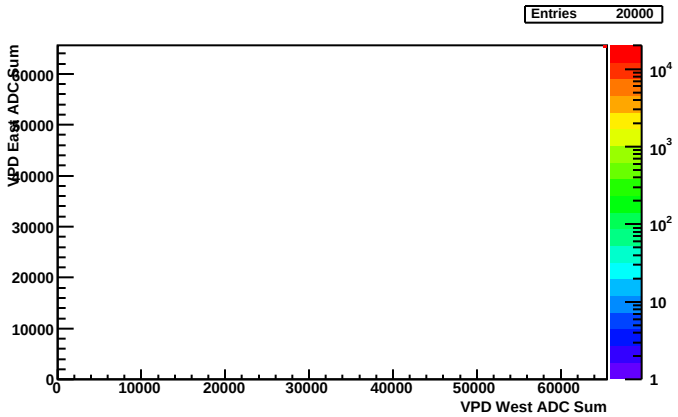

Entries 20000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

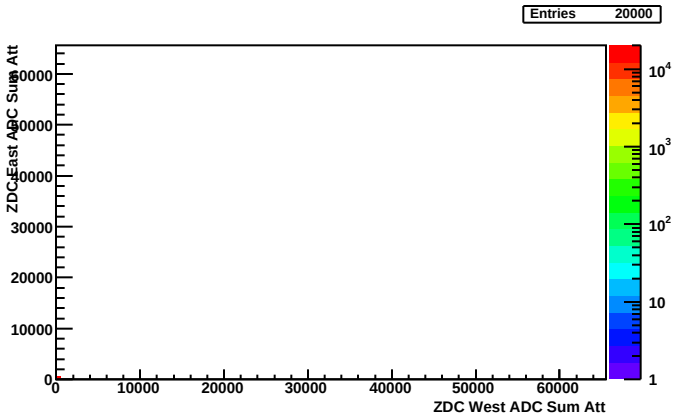

Entries 20000
VPD-East ADC Sum
ZDC-East ADC Sum Att

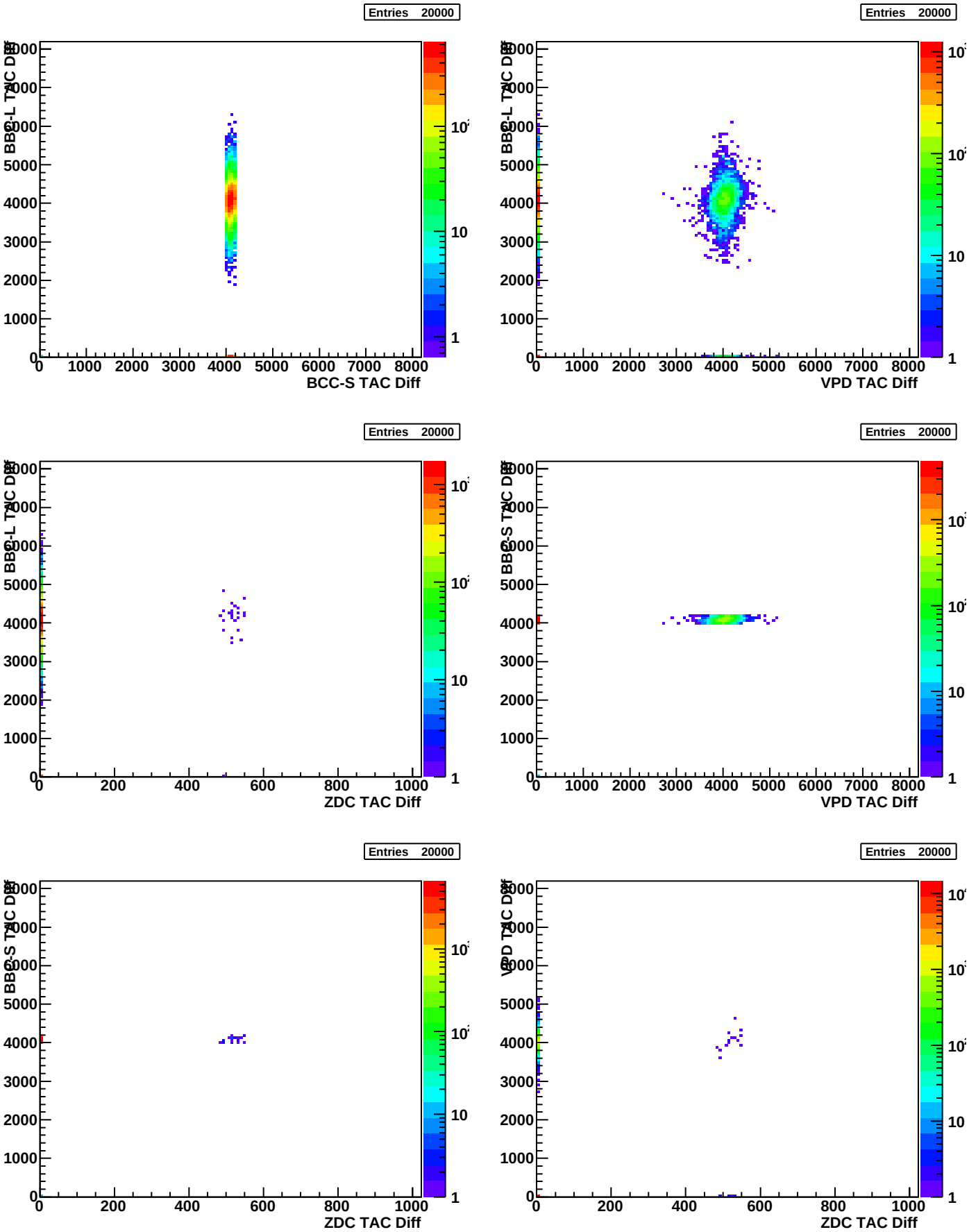

Entries 20000
VPD-West ADC Sum
ZDC-West ADC Sum Att

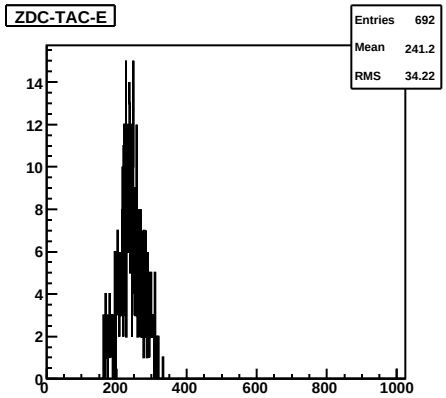

Entries 20000
BBC-L-East ADC Sum
BBC-L-West ADC Sum

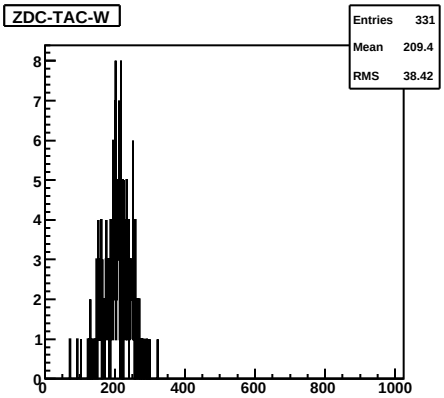

Entries 20000
BBC-S-East ADC Sum
BBC-S-West ADC Sum

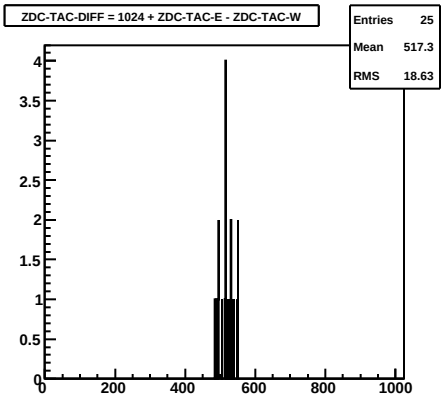

Entries 20000
VPD East ADC Sum
VPD West ADC Sum

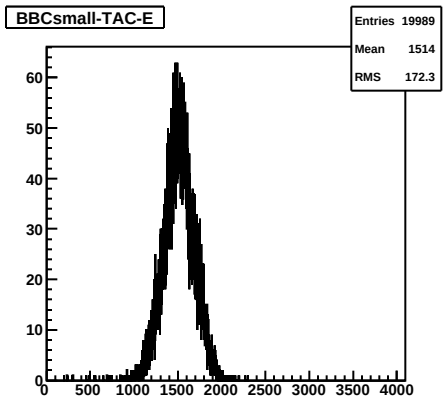

Entries 20000
ZDC East ADC Sum Att
ZDC West ADC Sum Att

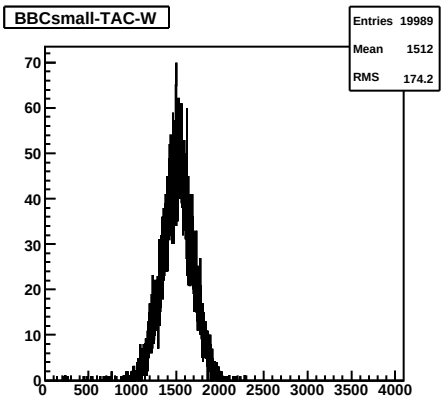

Entries 20000
BBC-L TAC Diff
BCC-S TAC Diff
Entries 20000
BBC-L TAC Diff
VPD TAC Diff
Entries 20000
BBC-L TAC Diff
ZDC TAC Diff
Entries 20000
BBC-S TAC Diff
VPD TAC Diff
Entries 20000
BBC-S TAC Diff
ZDC TAC Diff
Entries 20000
VPD TAC Diff
ZDC TAC Diff

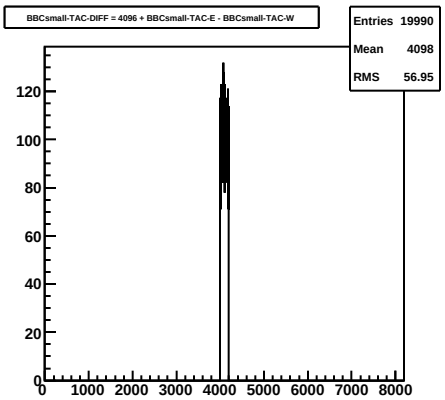

ZDC-TAC-E
Entries 692
Mean 241.2
RMS 34.22

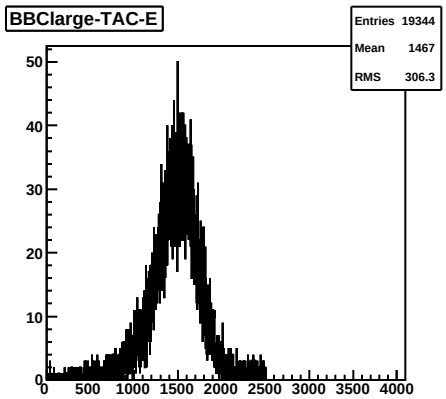

ZDC-TAC-W
Entries 331
Mean 209.4
RMS 38.42

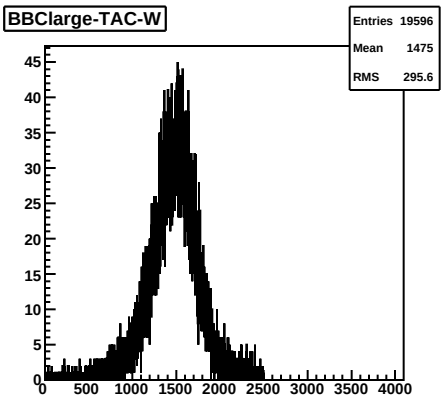

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 25
Mean 517.3
RMS 18.63

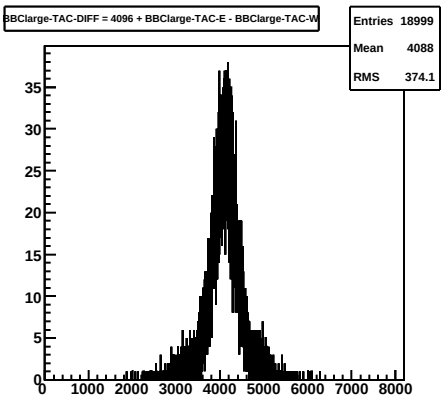

BBCsmall-TAC-E
Entries 19989
Mean 1514
RMS 172.3

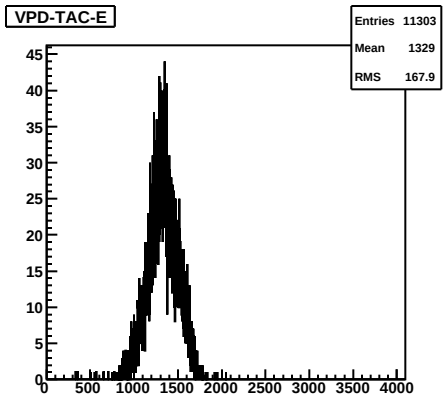

BBCsmall-TAC-W
Entries 19989
Mean 1512
RMS 174.2

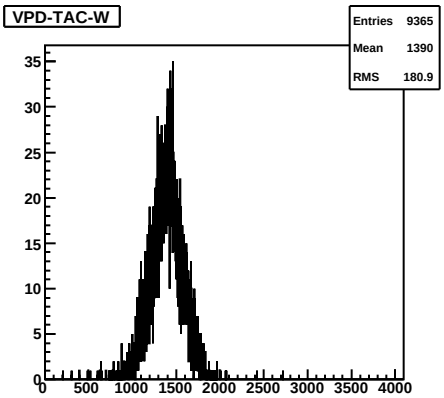

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 19990
Mean 4098
RMS 56.95

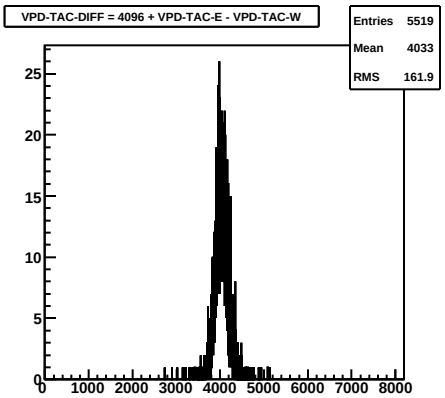

BBClarge-TAC-E
Entries 19344
Mean 1467
RMS 306.3

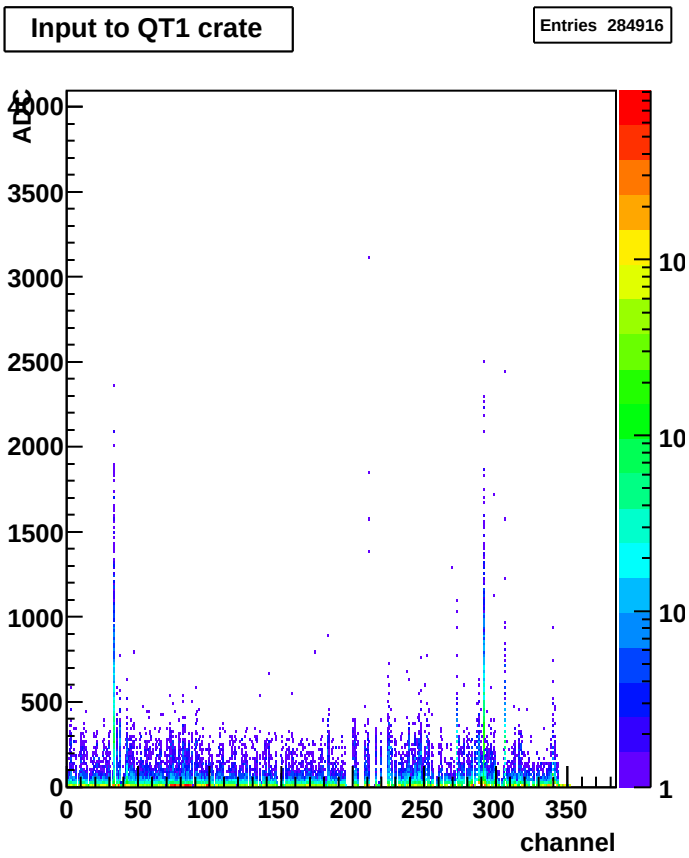

BBClarge-TAC-W
Entries 19596
Mean 1475
RMS 295.6

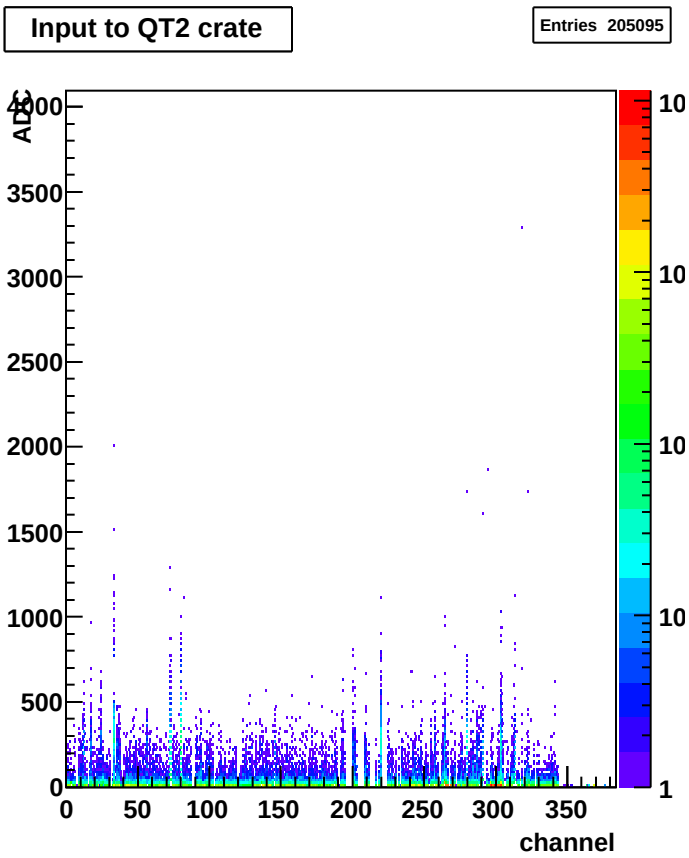

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 18999
Mean 4088
RMS 374.1

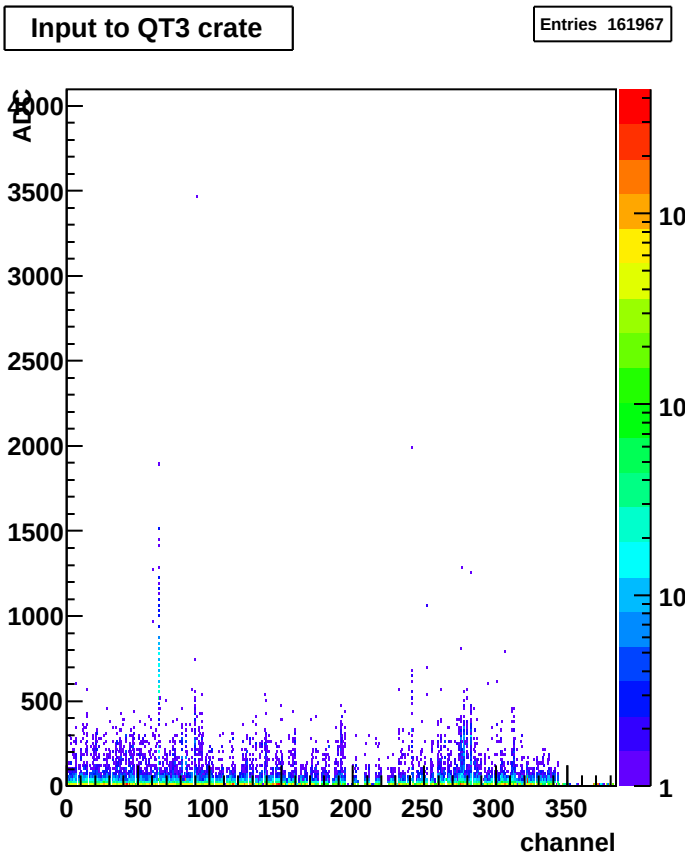

VPD-TAC-E
Entries 11303
Mean 1329
RMS 167.9

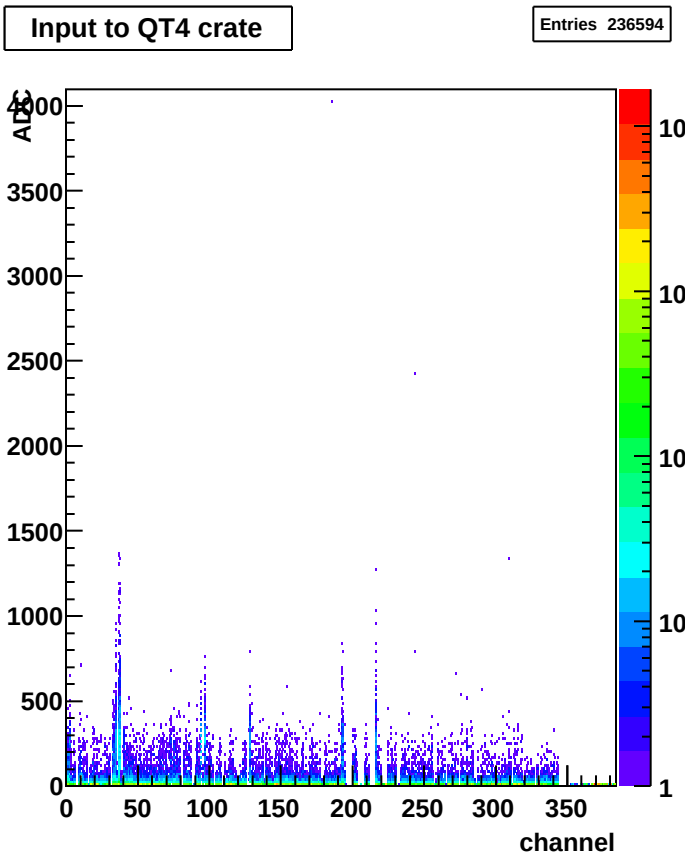

VPD-TAC-W
Entries 9365
Mean 1390
RMS 180.9

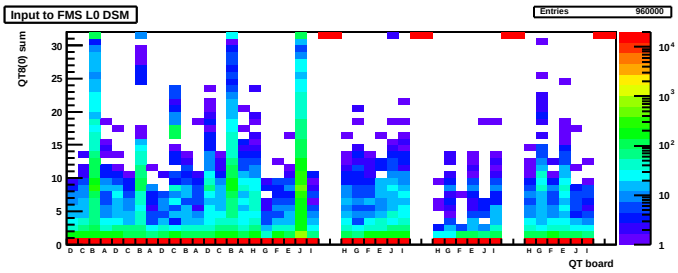

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 5519
Mean 4033
RMS 161.9

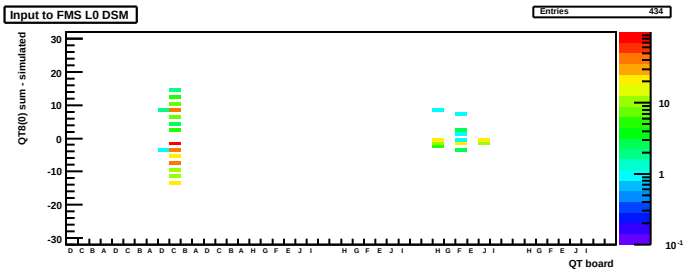

Input to QT1 crate
Entries 284916
ADC
channel

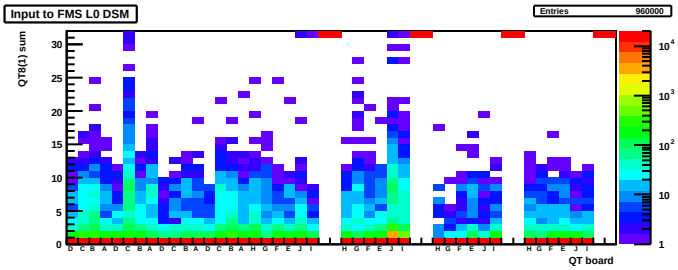

Input to QT2 crate
Entries 205095
ADC
channel

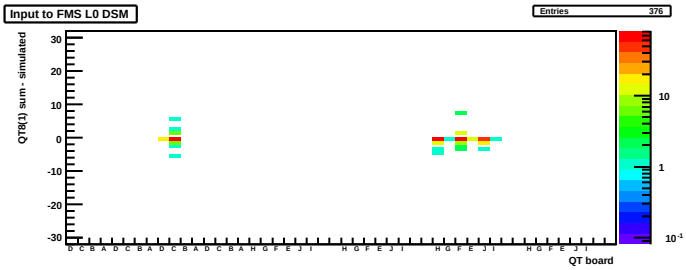

Input to QT3 crate
Entries 161967
ADC
channel

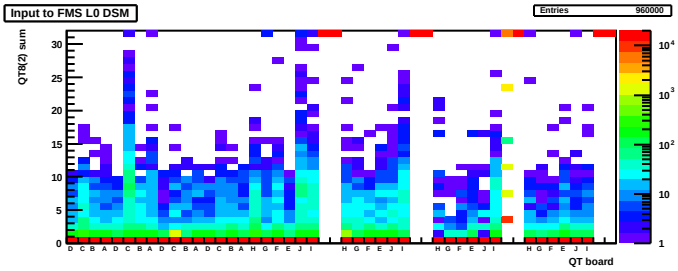

Input to QT4 crate
Entries 236594
ADC
channel

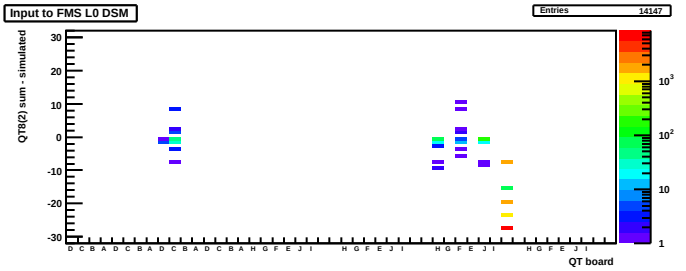

Input to FMS L0 DSM
Entries 960000
QT8(0) sum
QT board

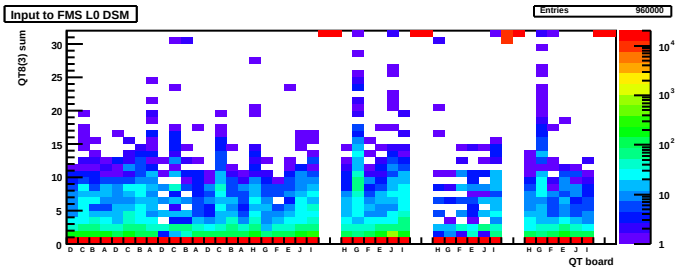

Input to FMS L0 DSM
Entries 434
QT8(0) sum - simulated
QT board

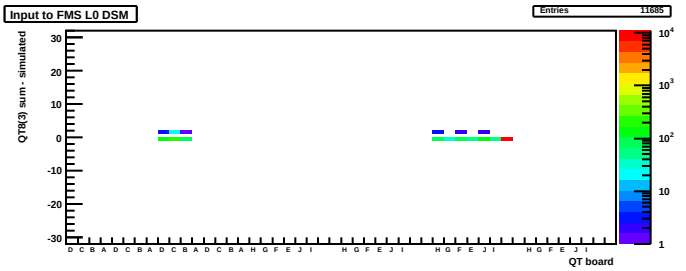

Input to FMS L0 DSM
Entries 960000
QT8(1) sum
QT board

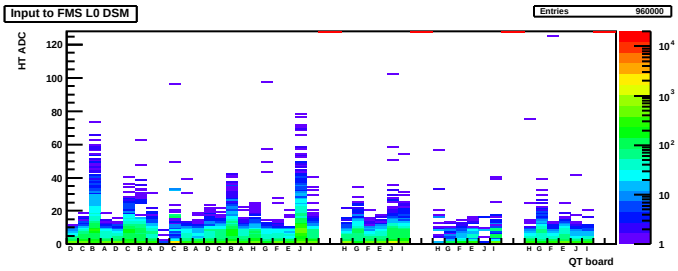

Input to FMS L0 DSM
Entries 376
QT8(1) sum - simulated
QT board

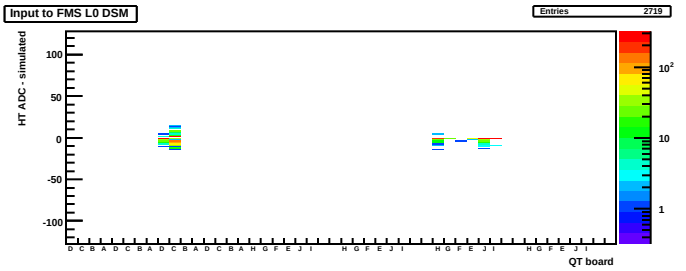

Input to FMS L0 DSM
Entries 960000
QT8(2) sum
QT board

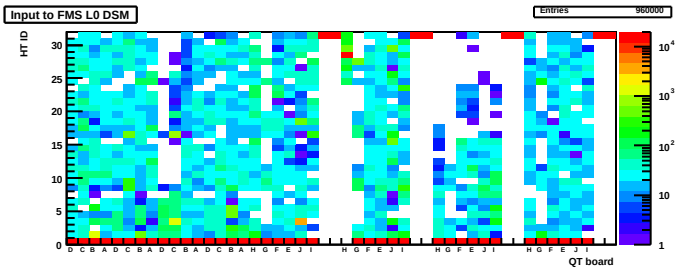

Input to FMS L0 DSM
Entries 14147
QT8(2) sum - simulated
QT board

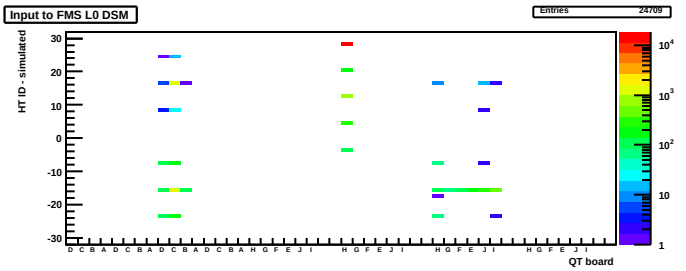

Input to FMS L0 DSM
Entries 960000
QT8(3) sum
QT board

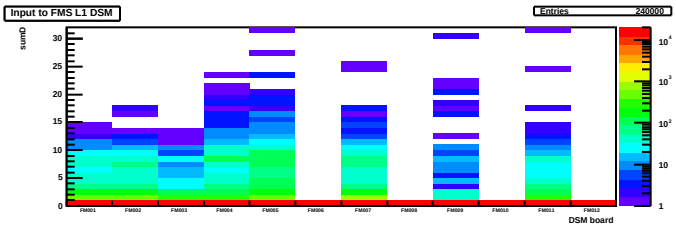

Input to FMS L0 DSM
Entries 11685
QT8(3) sum - simulated
QT board

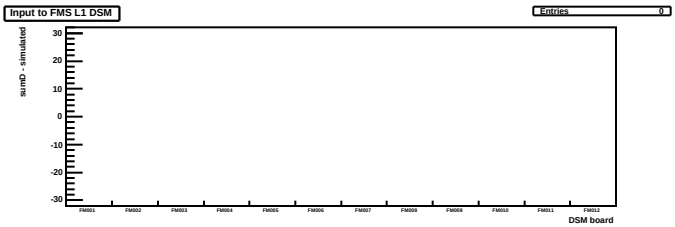

Input to FMS L0 DSM
Entries 960000
HT ADC
QT board

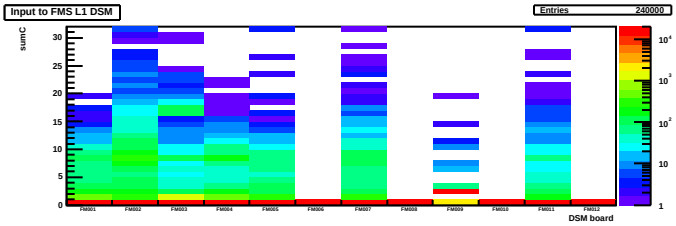

Input to FMS L0 DSM
Entries 2719
HT ADC - simulated
QT board

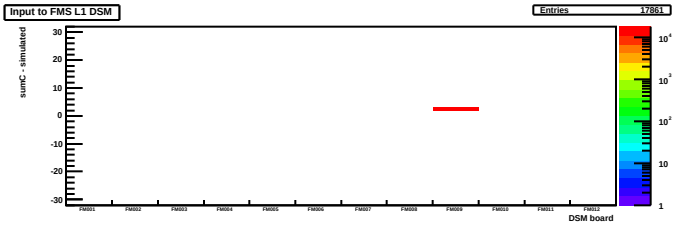

Input to FMS L0 DSM
Entries 960000
HT ID
QT board

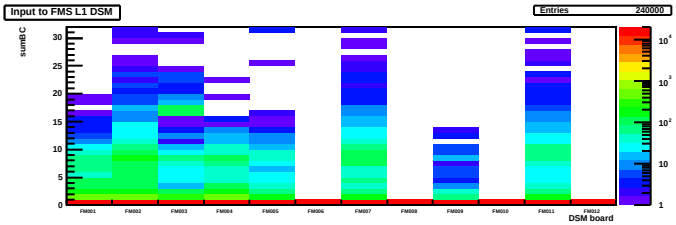

Input to FMS L0 DSM
Entries 24709
HT ID - simulated
QT board

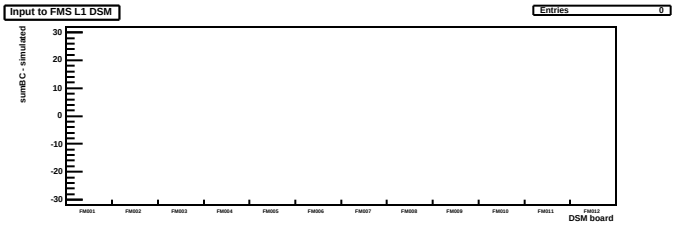

Input to FMS L1 DSM
Entries 240000
sumD
DSM board

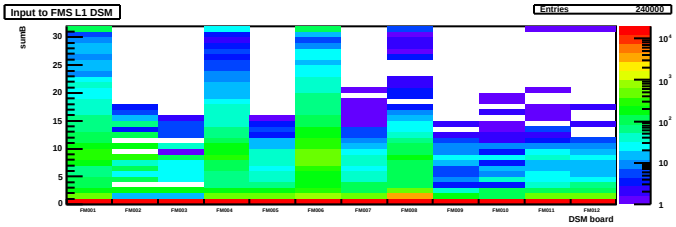

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

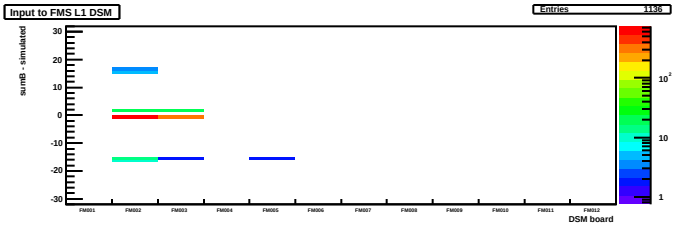

Input to FMS L1 DSM
Entries 240000
sumC
DSM board

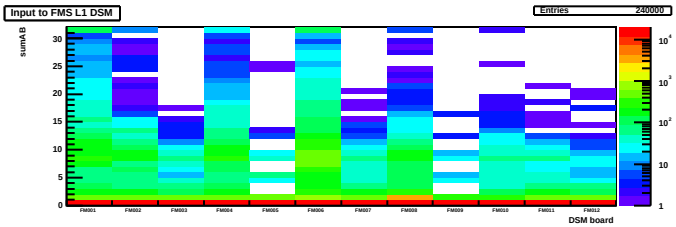

Input to FMS L1 DSM
Entries 17861
sumC - simulated
DSM board

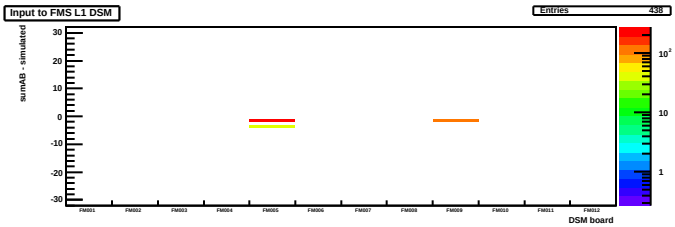

Input to FMS L1 DSM
Entries 240000
sumBC
DSM board

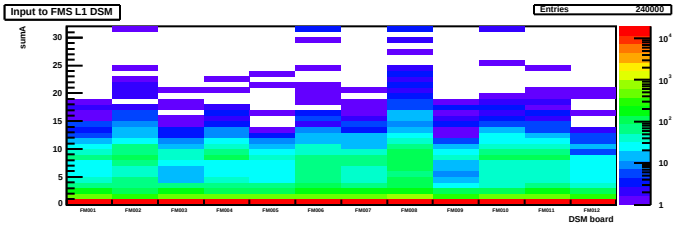

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

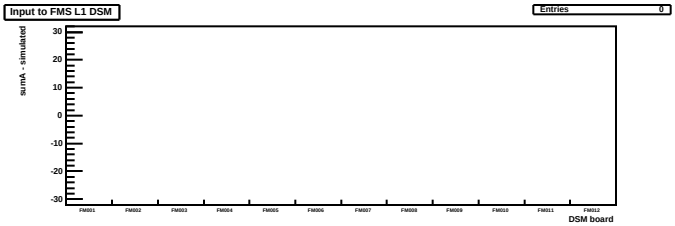

Input to FMS L1 DSM
Entries 240000
sumB
DSM board

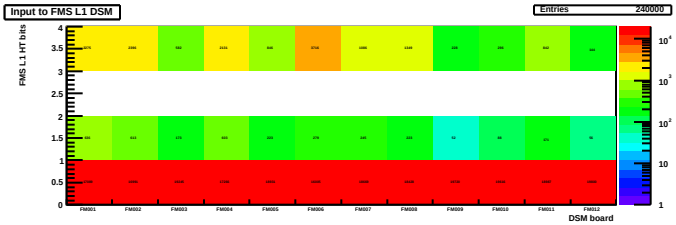

Input to FMS L1 DSM
Entries 1136
sumB - simulated
DSM board

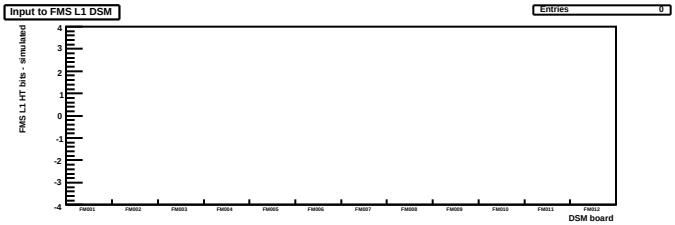

Input to FMS L1 DSM
Entries 240000
sumAB
DSM board

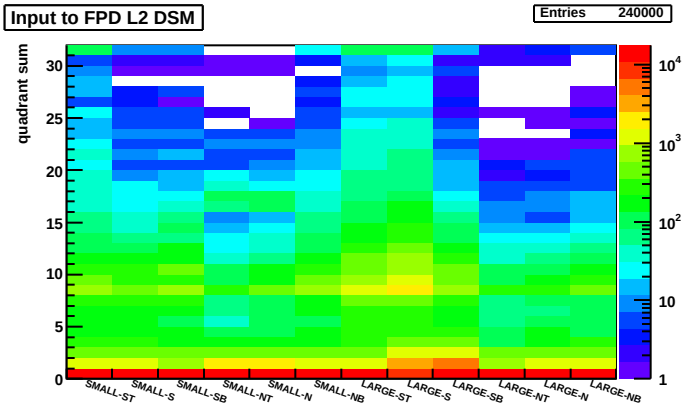

Input to FMS L1 DSM
Entries 438
sumAB - simulated
DSM board

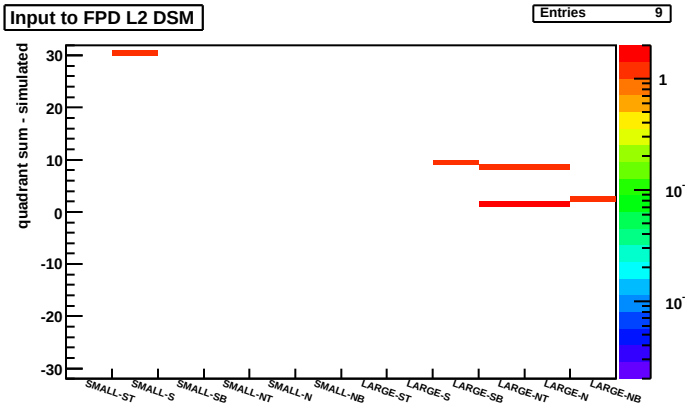

Input to FMS L1 DSM
Entries 240000
sumA
DSM board

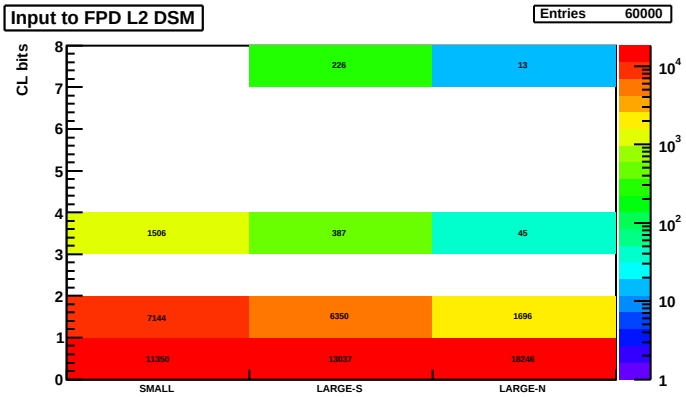

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

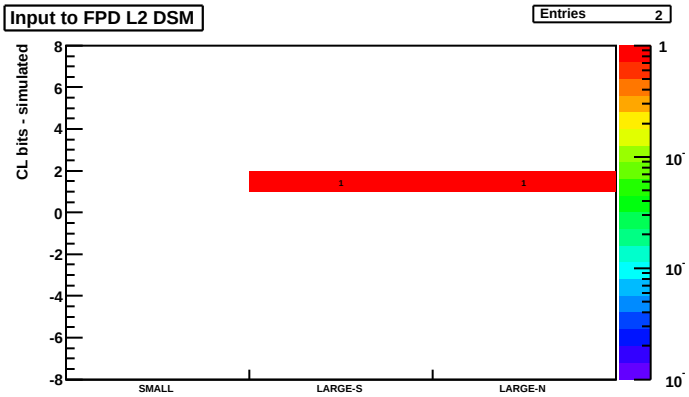

Input to FMS L1 DSM
Entries 240000
FMS L1 HT bits
DSM board

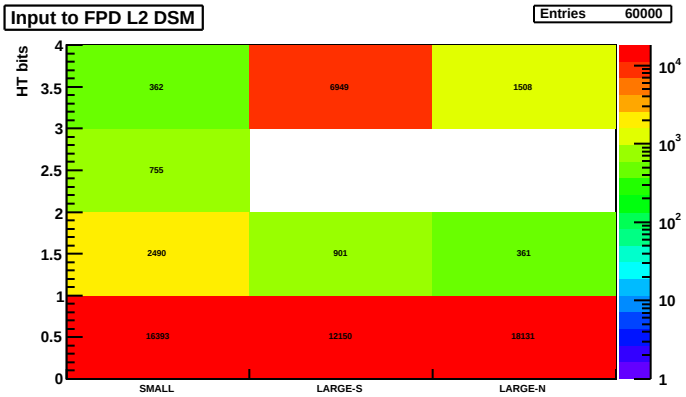

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

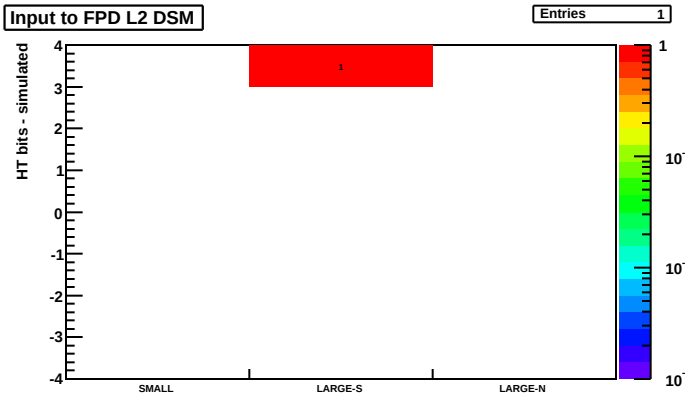

Input to FPD L2 DSM
Entries 240000
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

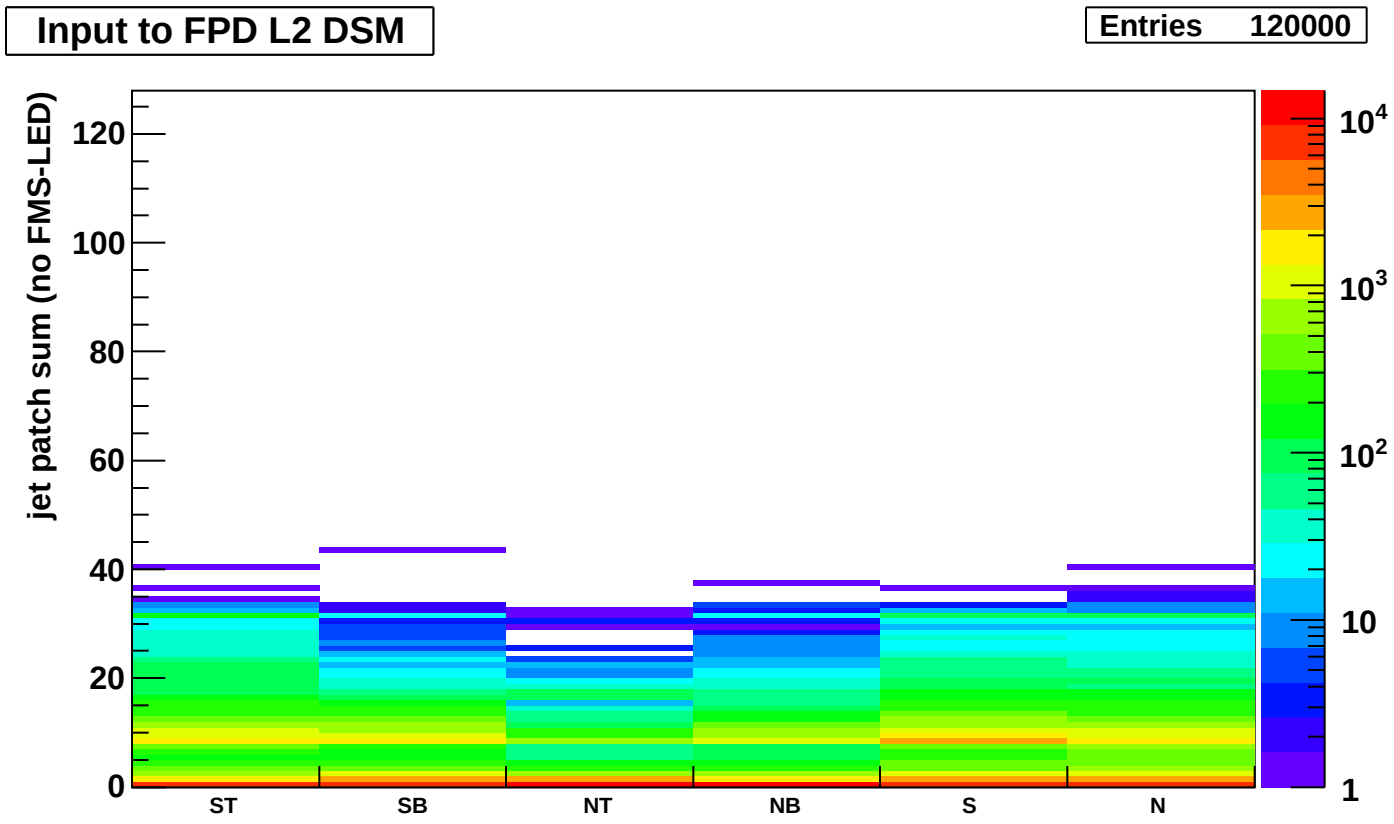

Input to FPD L2 DSM
Entries 9
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

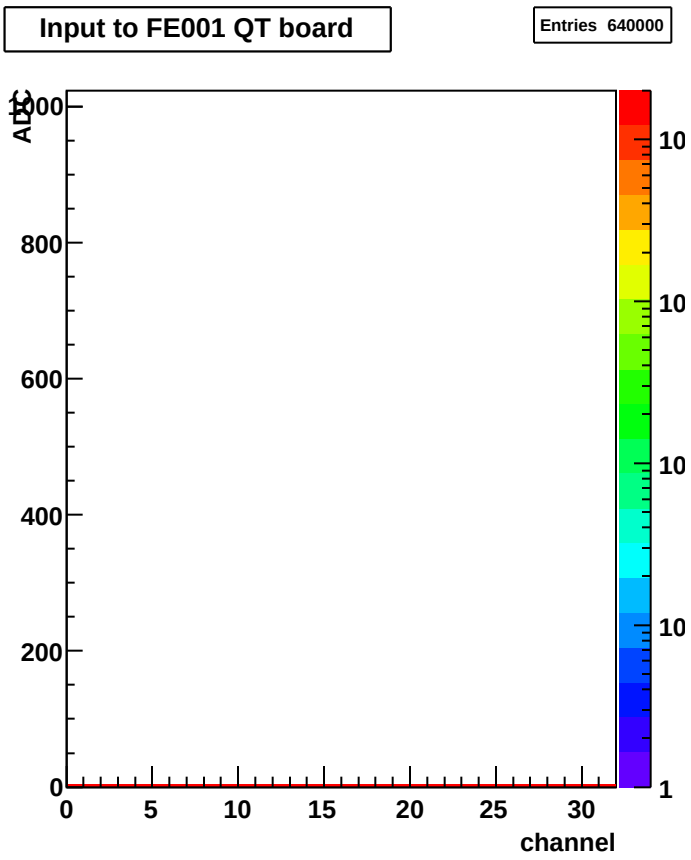

Input to FPD L2 DSM
Entries 60000
CL bits
226
13
1506
387
45
7144
6350
1696
11350
13037
18246
SMALL
LARGE-S
LARGE-N

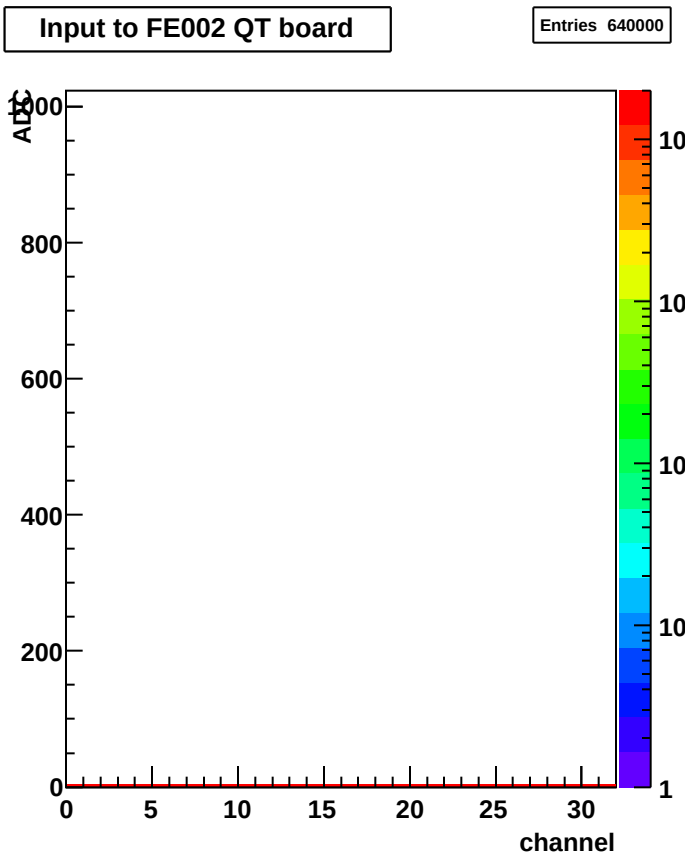

Input to FPD L2 DSM
Entries 2
CL bits - simulated
1
1
SMALL
LARGE-S
LARGE-N

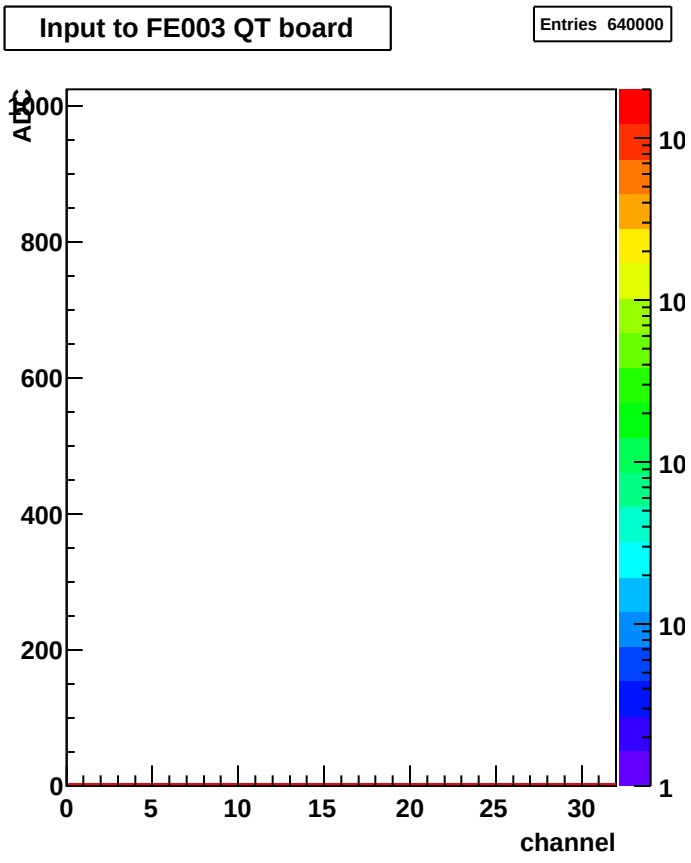

Input to FPD L2 DSM
Entries 60000
HT bits
362
6949
1508
755
2490
901
361
16393
12150
18131
SMALL
LARGE-S
LARGE-N

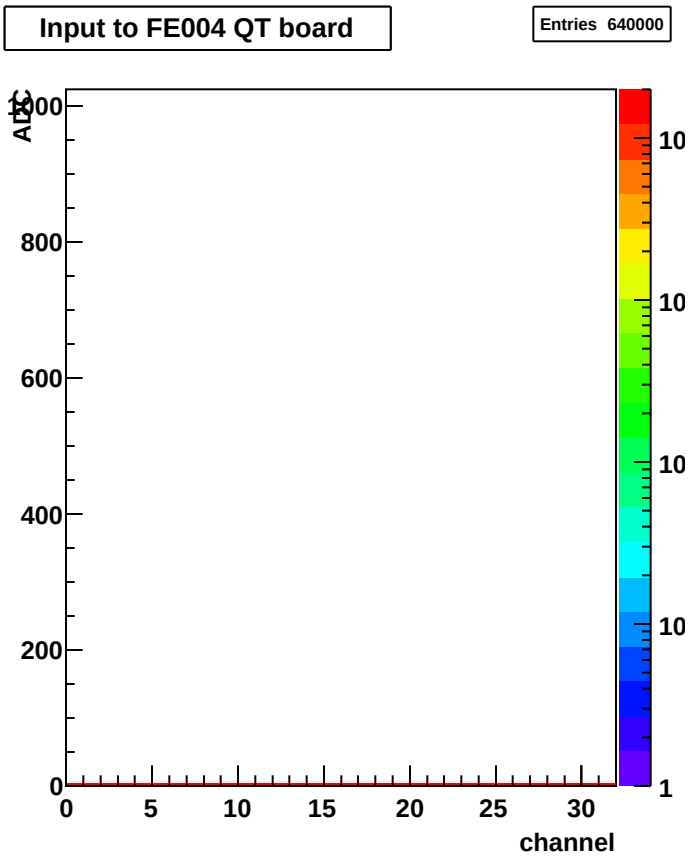

Input to FPD L2 DSM
Entries 1
HT bits - simulated
1
SMALL
LARGE-S
LARGE-N

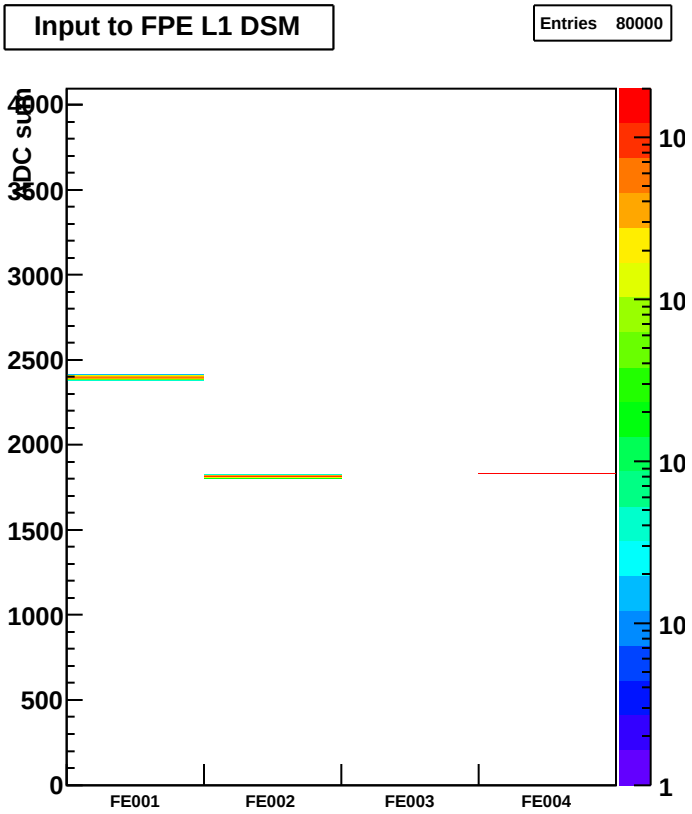

Input to FPD L2 DSM
Entries 120000
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

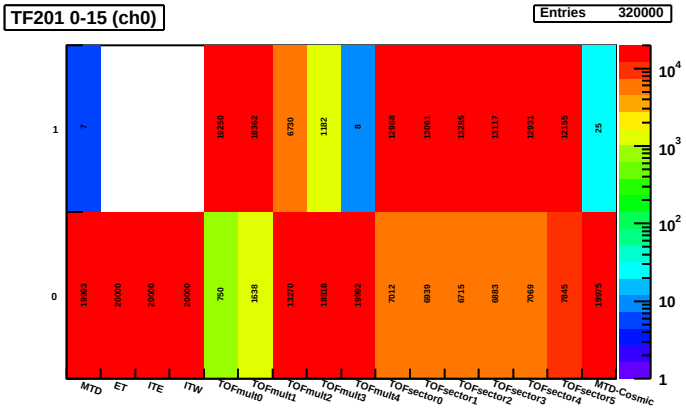

Input to FE001 QT board
Entries 640000
ADC
channel

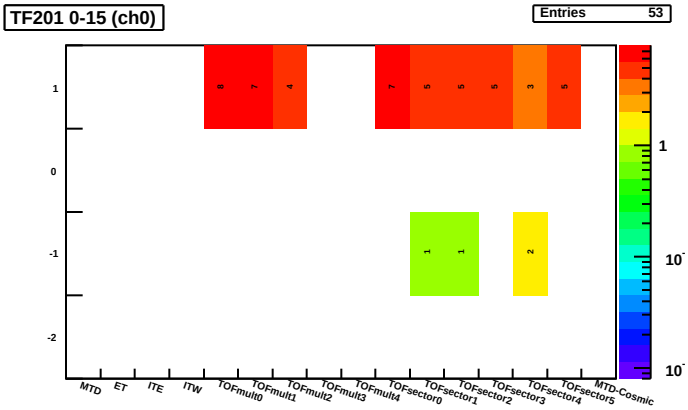

Input to FE002 QT board
Entries 640000
ADC
channel

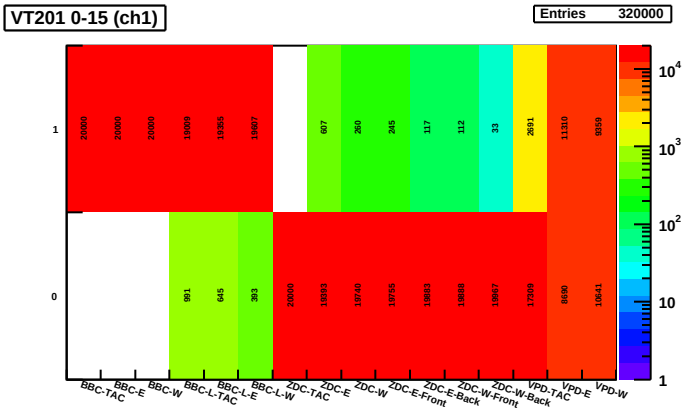

Input to FE003 QT board
Entries 640000
ADC
channel

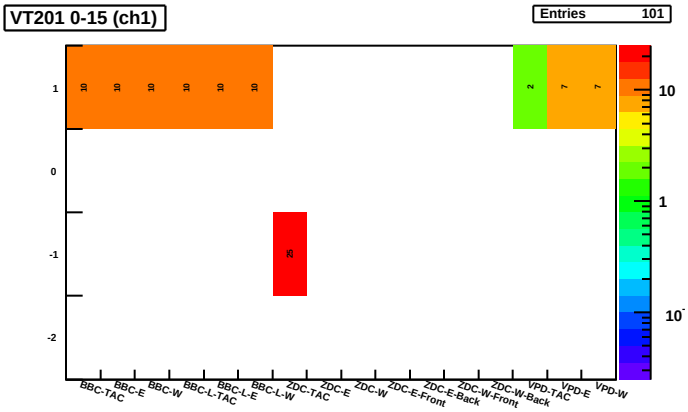

Input to FE004 QT board
Entries 640000
ADC
channel

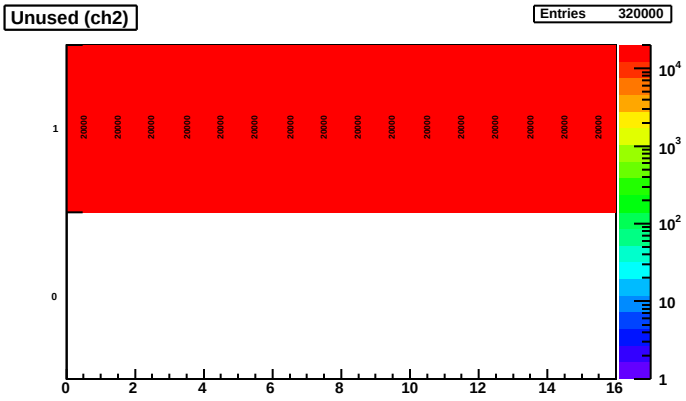

Input to FPE L1 DSM
Entries 80000
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

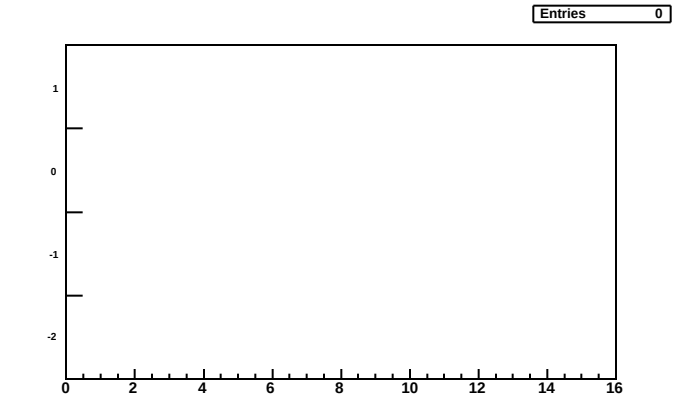

TF201 0-15 (ch0)
Entries 320000
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

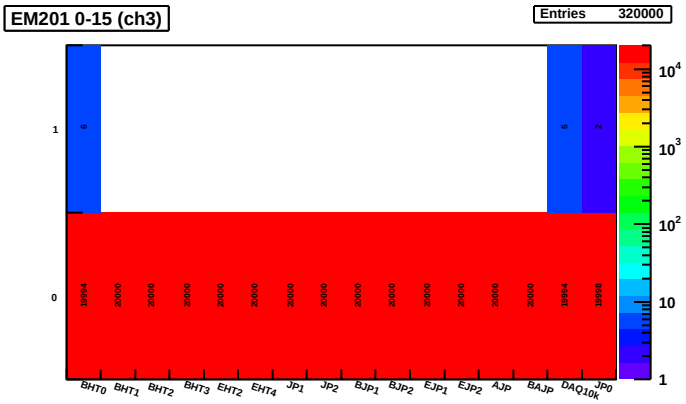

TF201 0-15 (ch0)
Entries 53
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

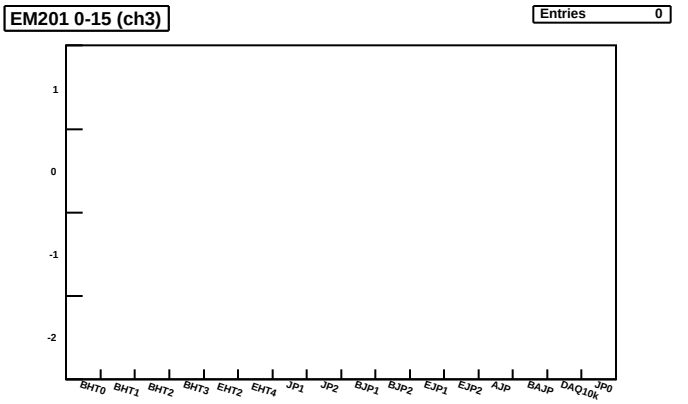

VT201 0-15 (ch1)
Entries 320000
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 101
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

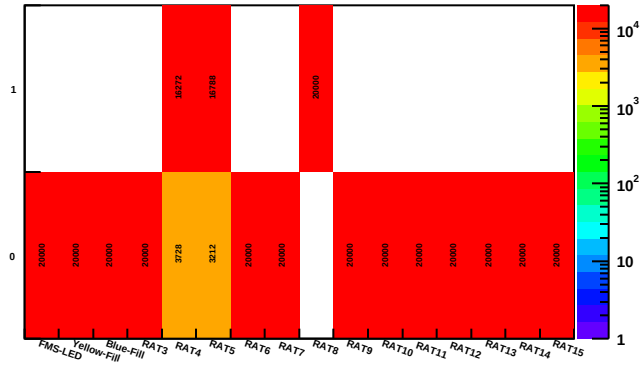

Unused (ch2)
Entries 320000

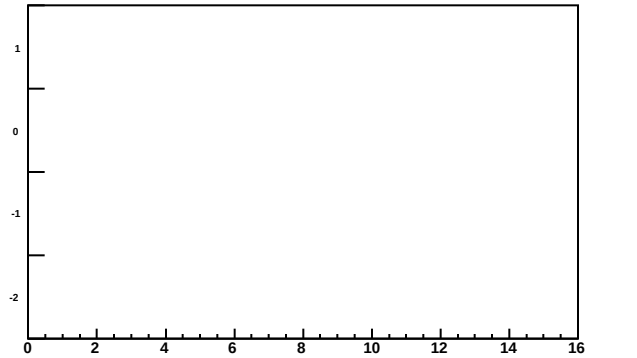

Entries 0


EM201 0-15 (ch3)
Entries 320000
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

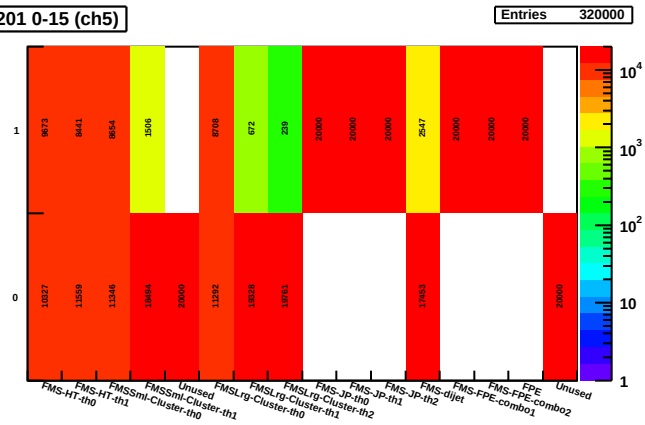

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)





FP201 0-15 (ch5)



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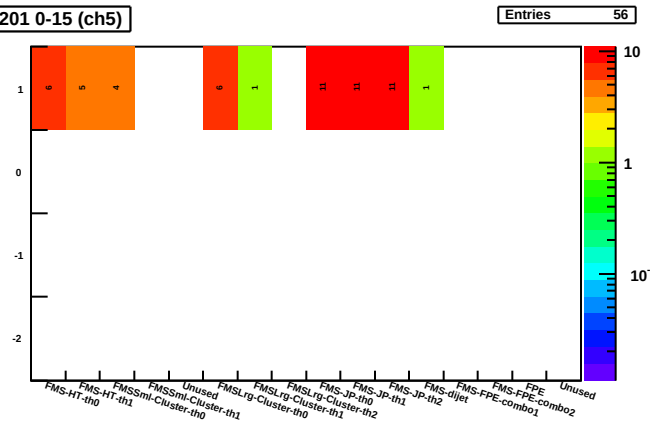

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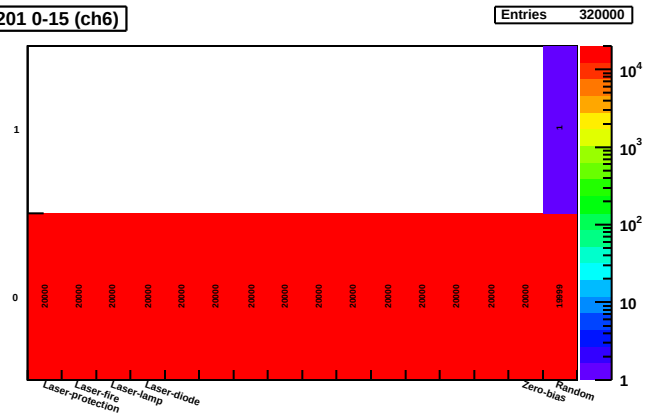

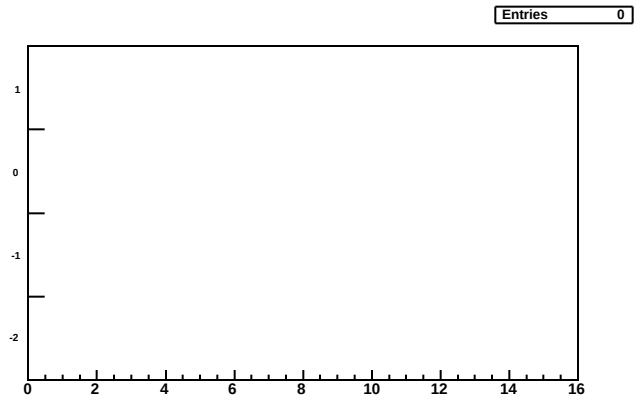
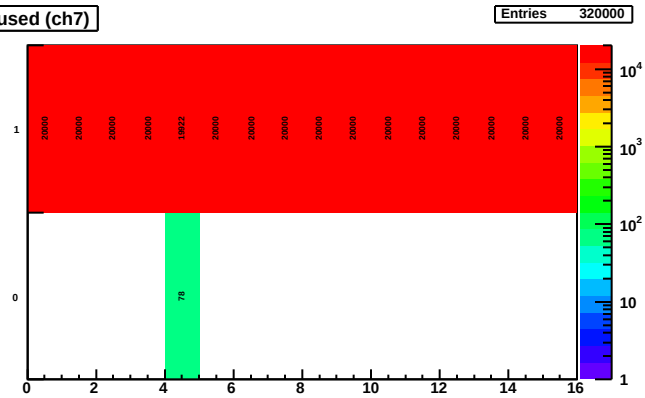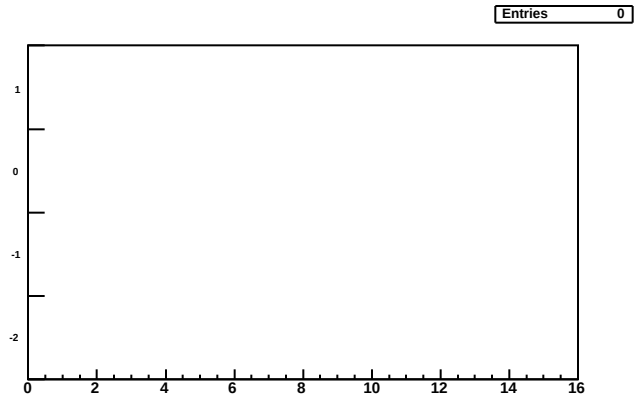
Unused (ch7)