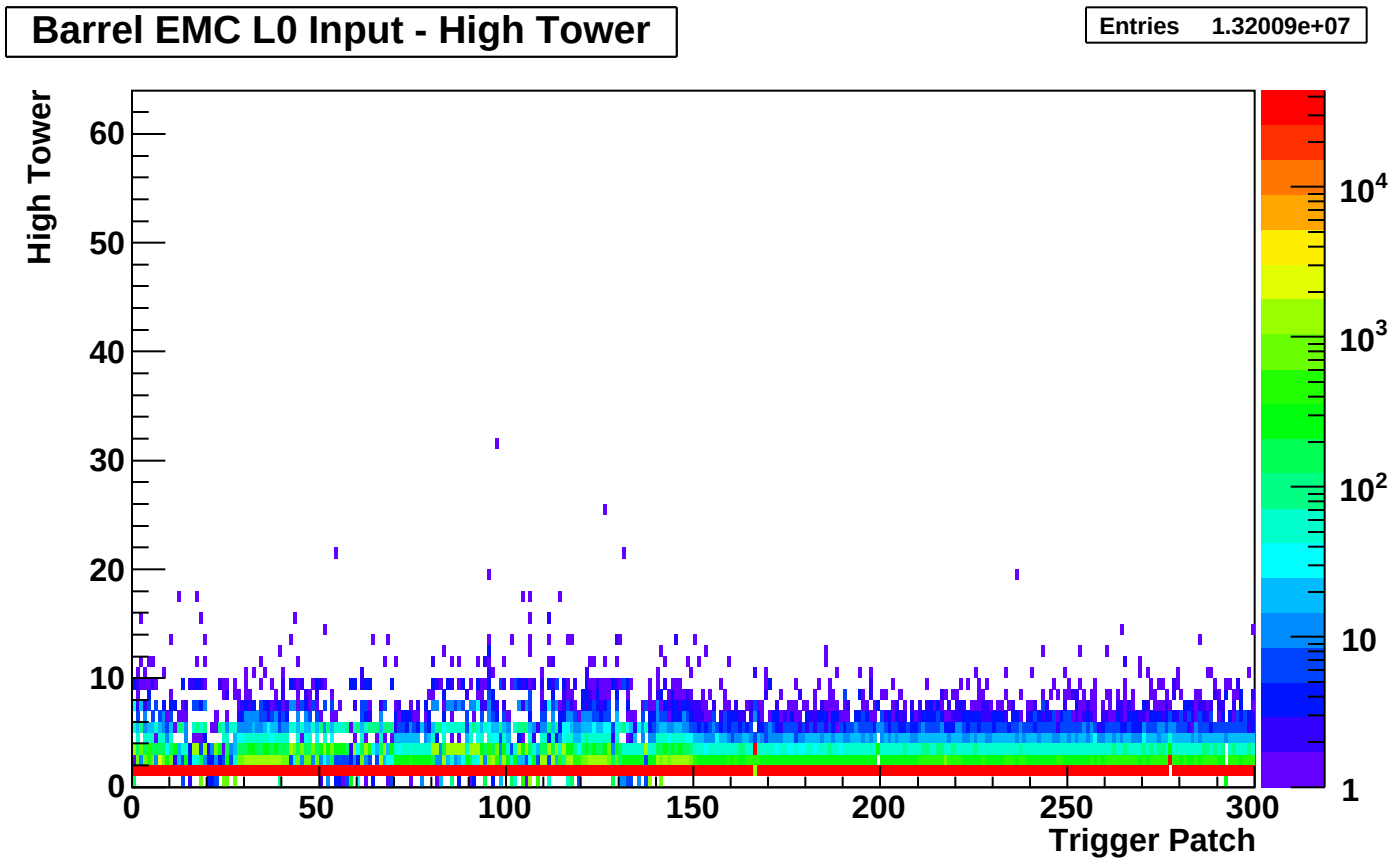
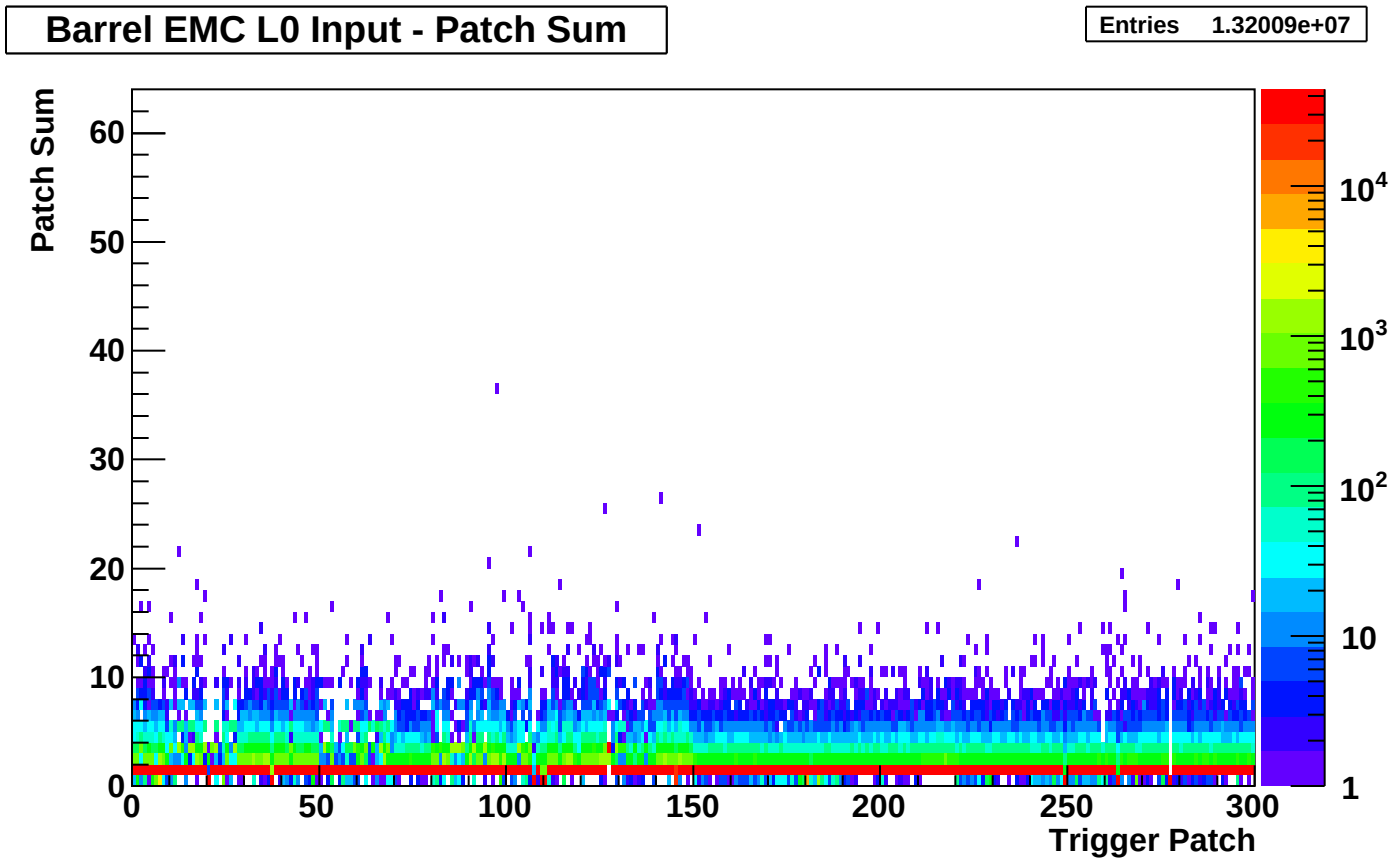
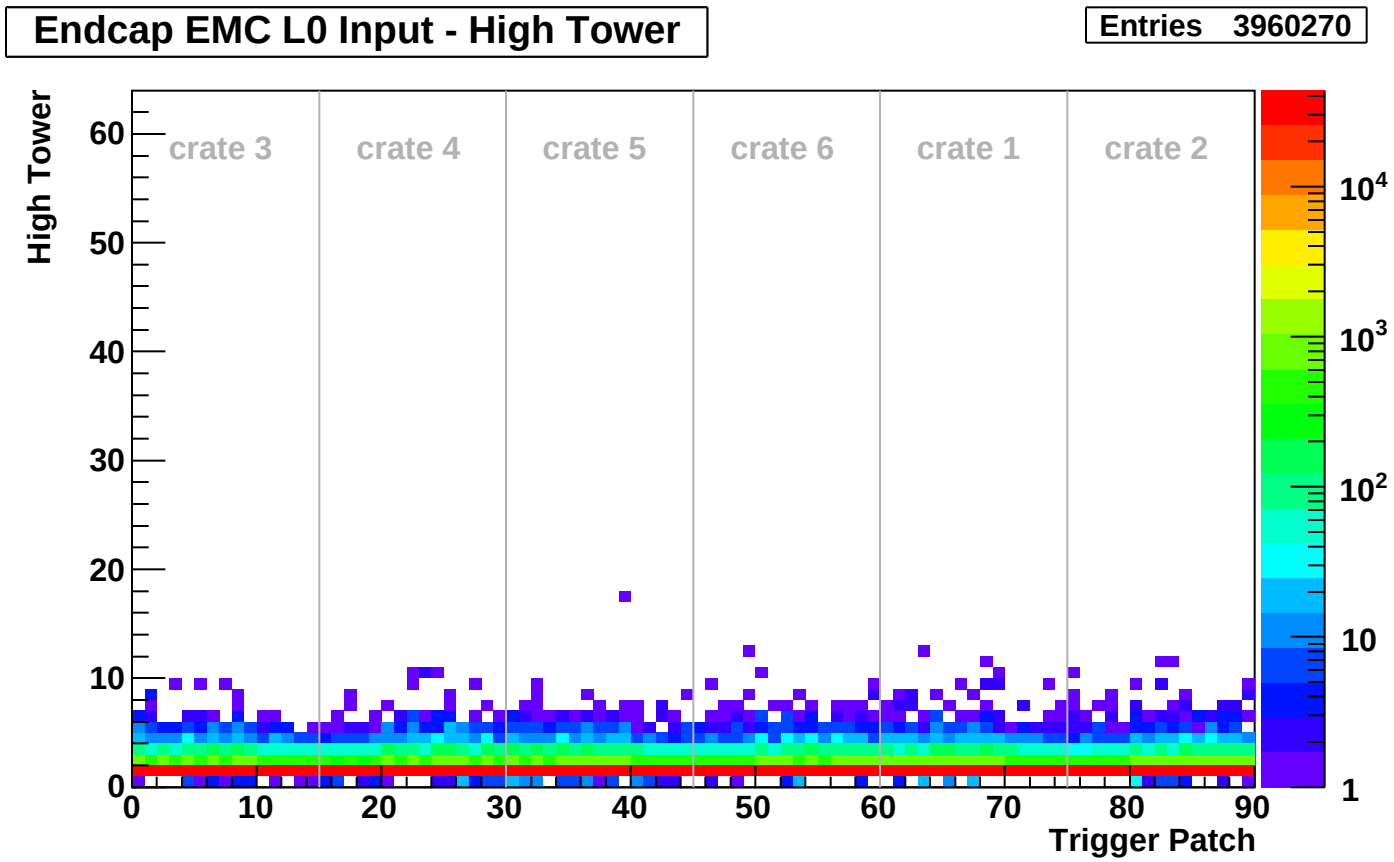
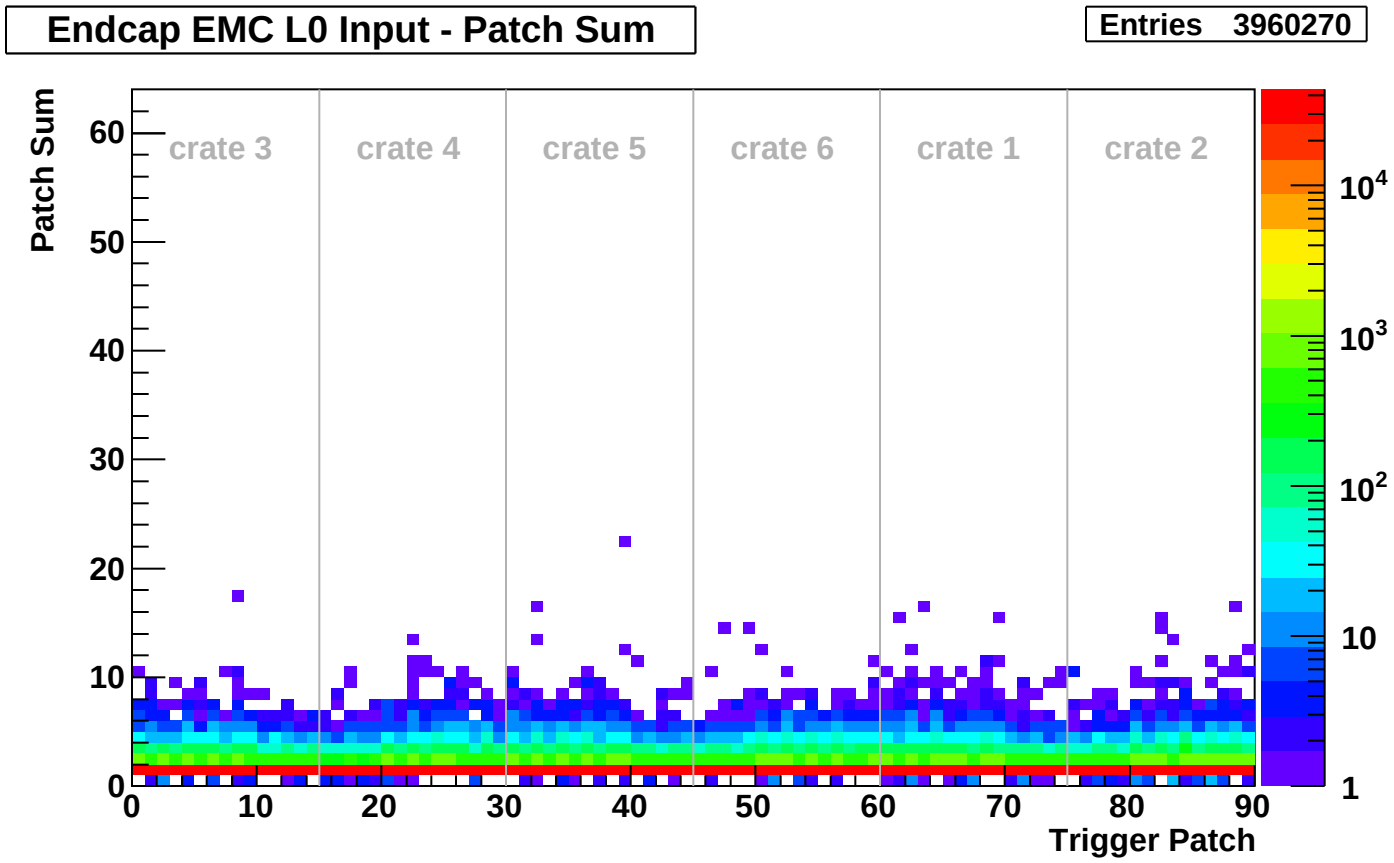
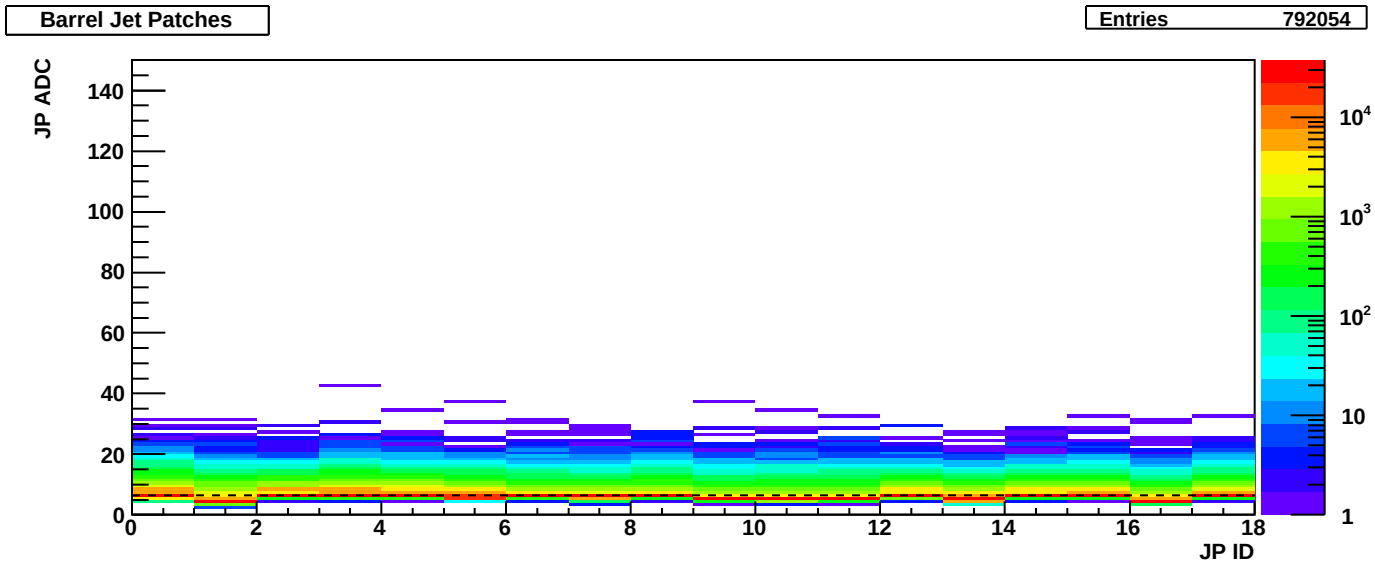
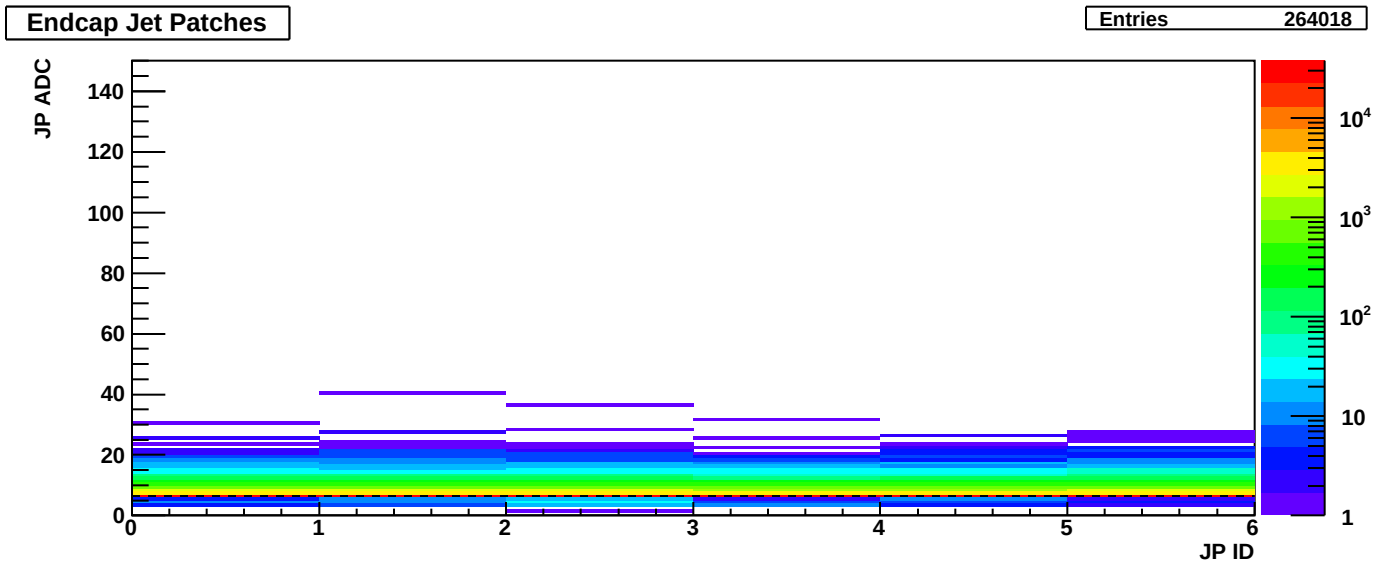

Barrel EMC L0 Input - High Tower
Entries 1.32009e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

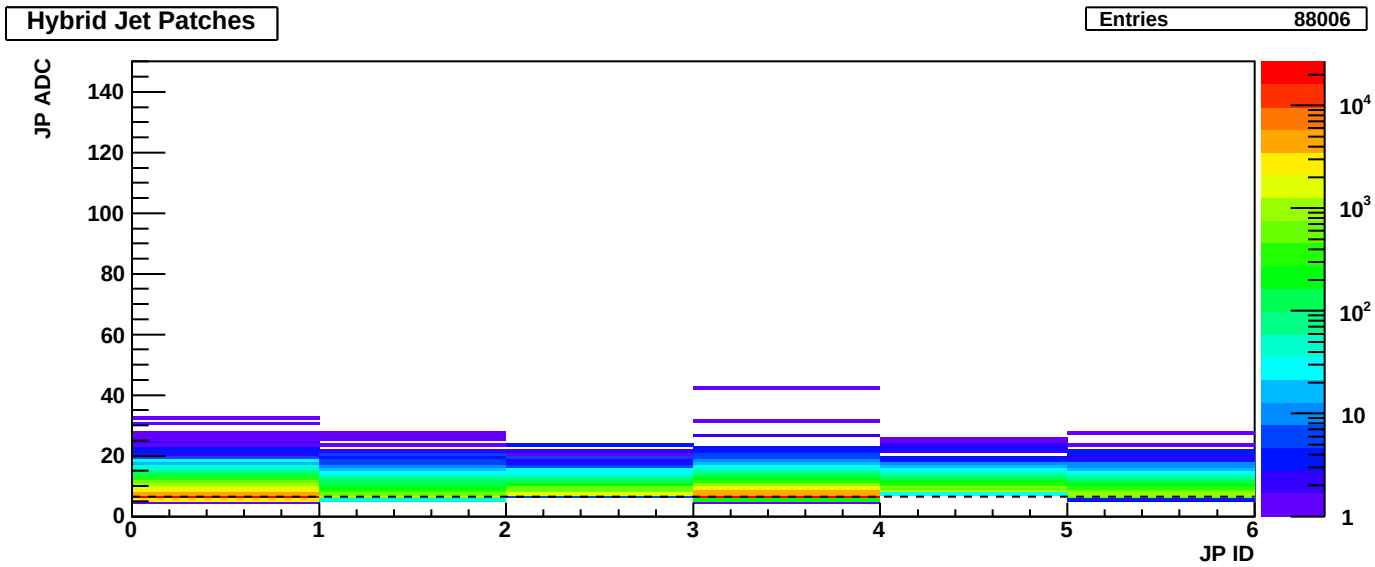

Barrel EMC L0 Input - Patch Sum
Entries 1.32009e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

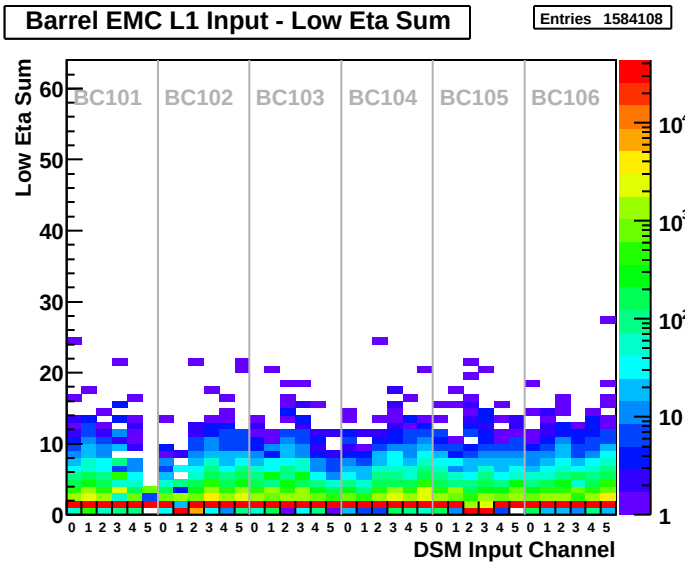

Endcap EMC L0 Input - High Tower
Entries 3960270
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

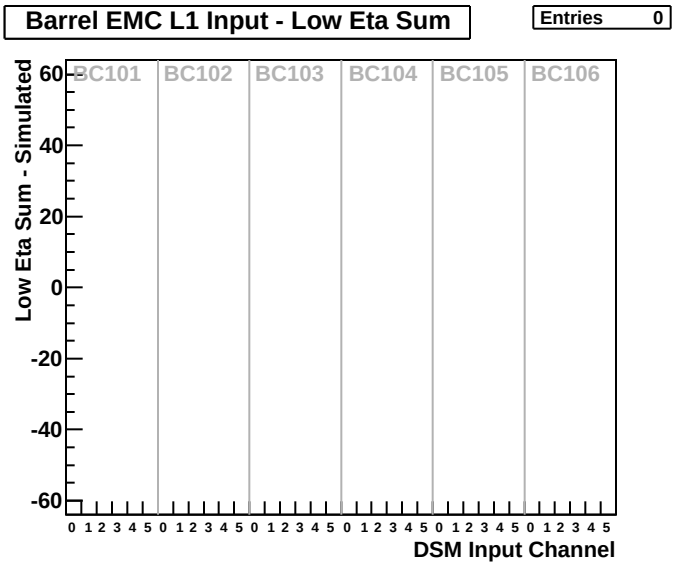

Endcap EMC L0 Input - Patch Sum
Entries 3960270
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

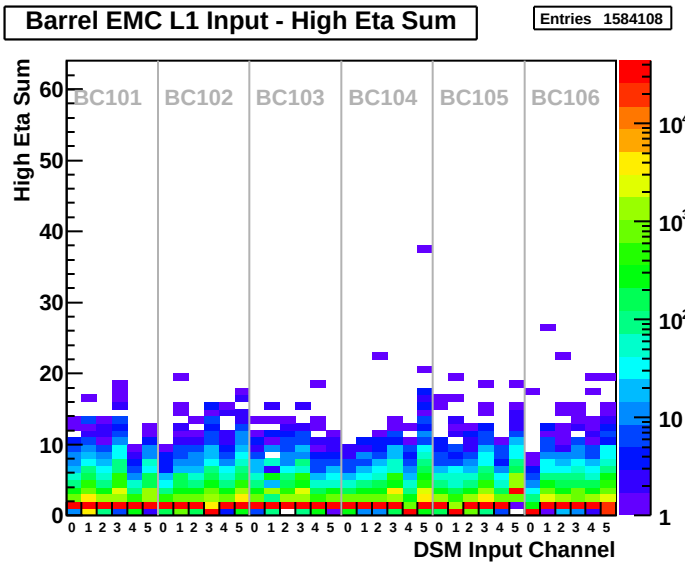

Barrel Jet Patches
Entries 792054
JP ADC
JP ID

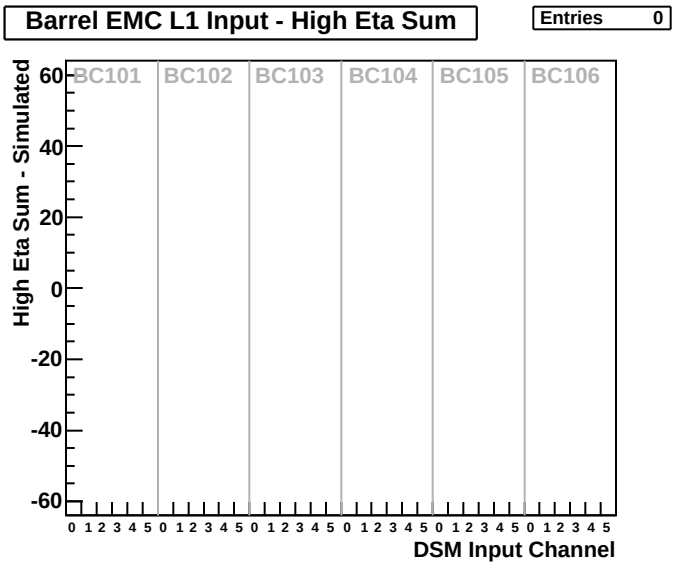

Endcap Jet Patches
Entries 264018
JP ADC
JP ID

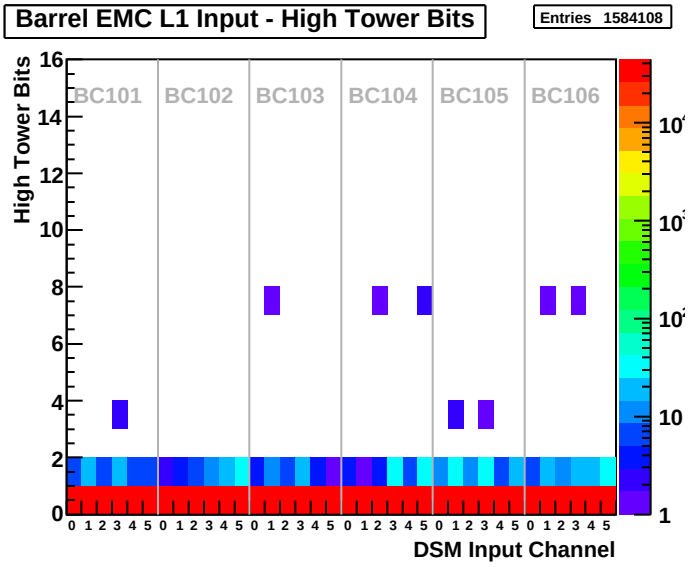

Hybrid Jet Patches
Entries 88006
JP ADC
JP ID

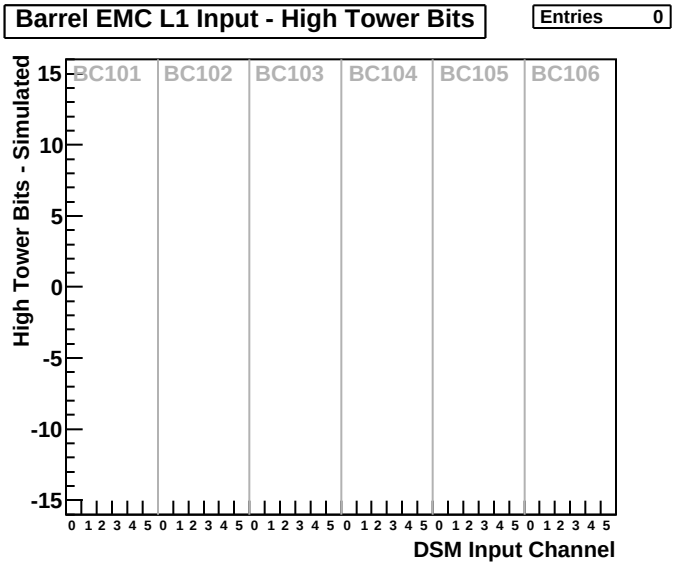

Barrel EMC L1 Input - Low Eta Sum
Entries 1584108
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

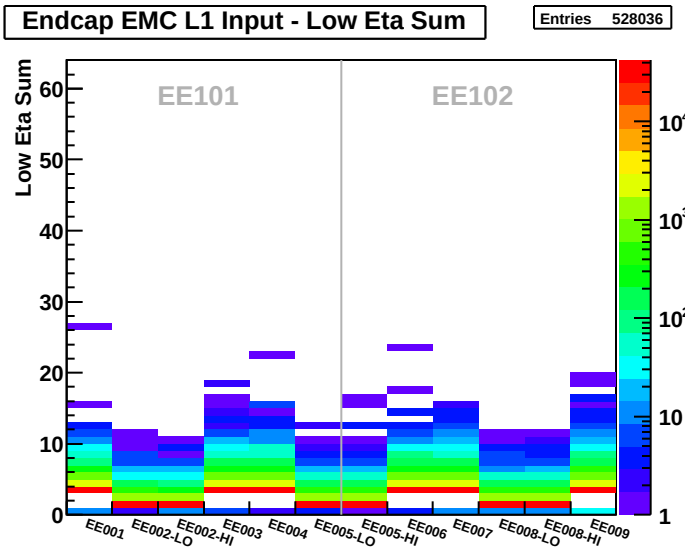

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

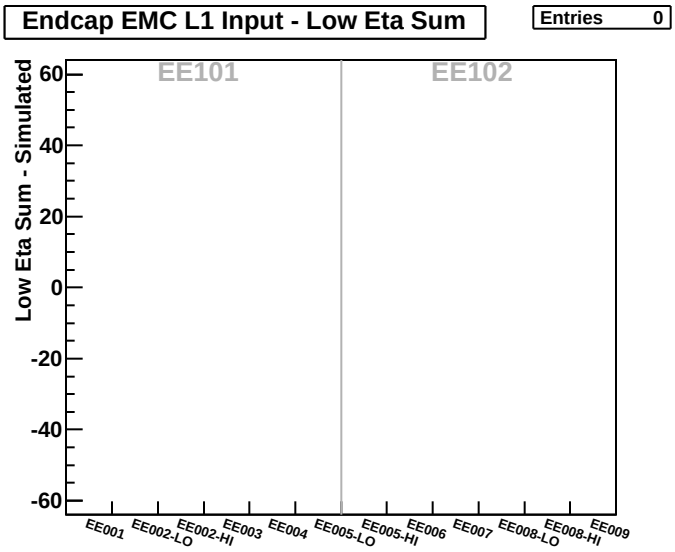

Barrel EMC L1 Input - High Eta Sum
Entries 1584108
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

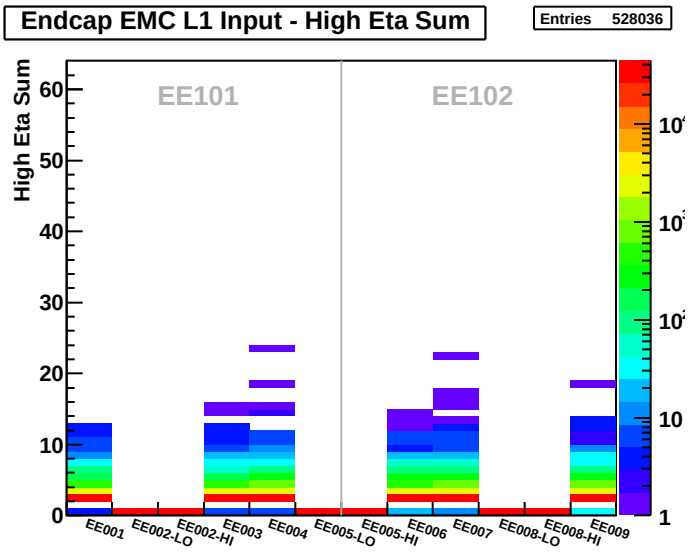

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

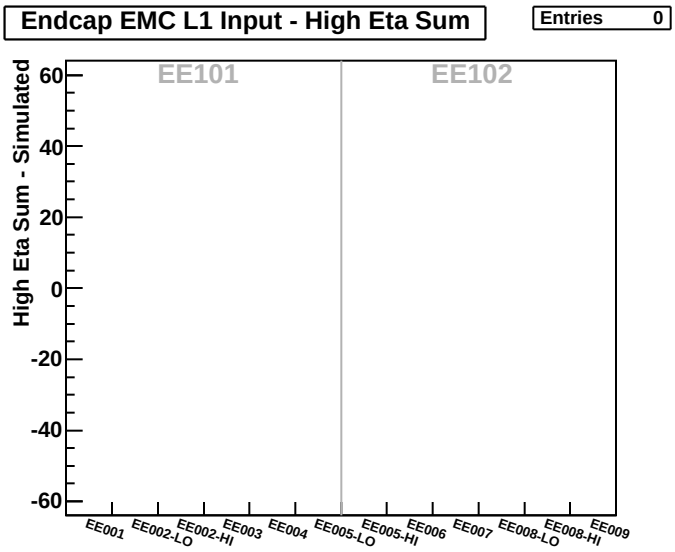

Barrel EMC L1 Input - High Tower Bits
Entries 1584108
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

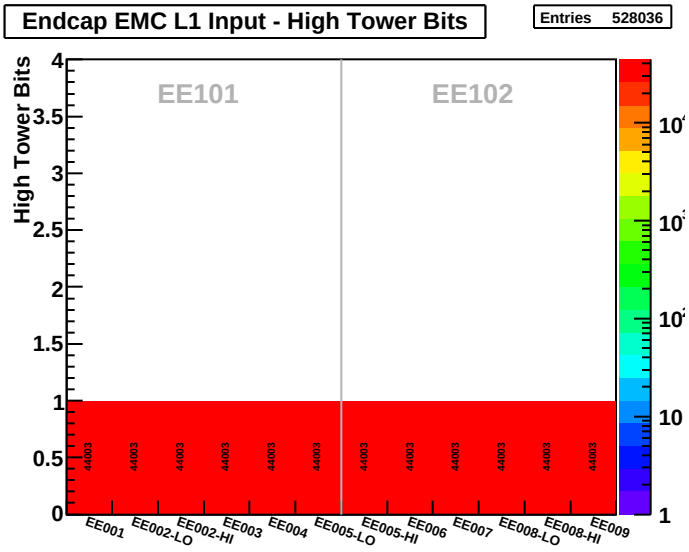

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

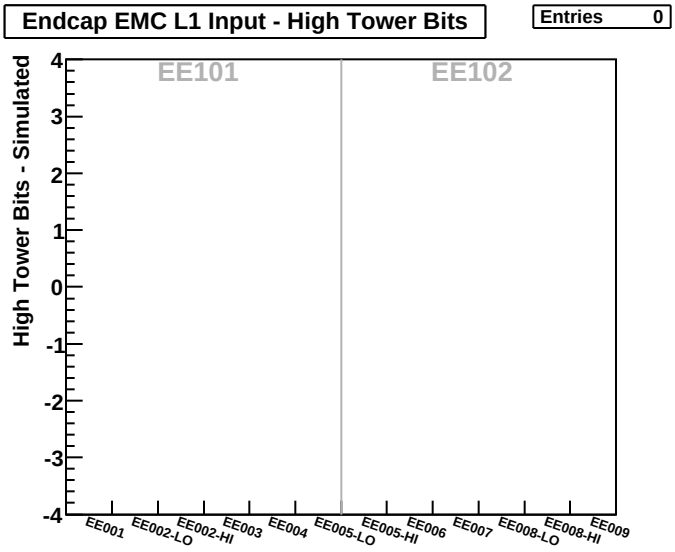

Endcap EMC L1 Input - Low Eta Sum
Entries 528036
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

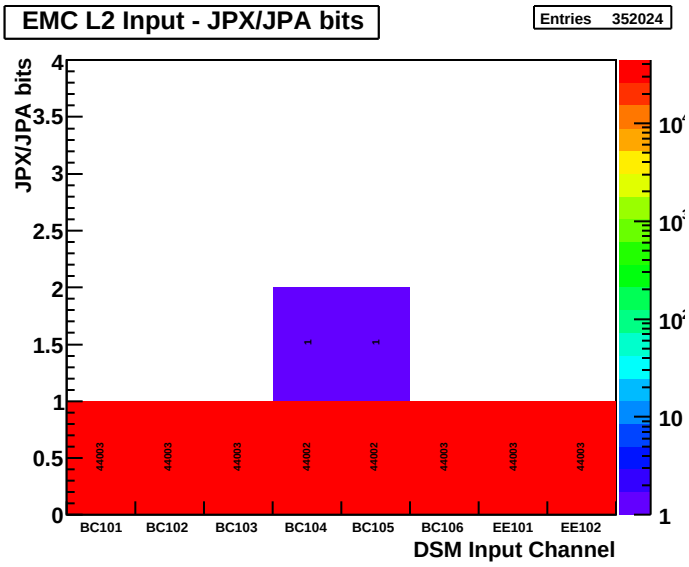

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

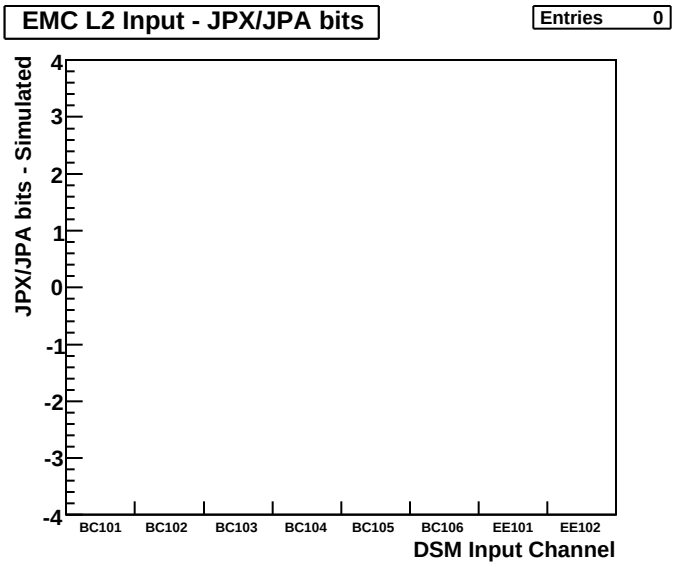

Endcap EMC L1 Input - High Eta Sum
Entries 528036
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

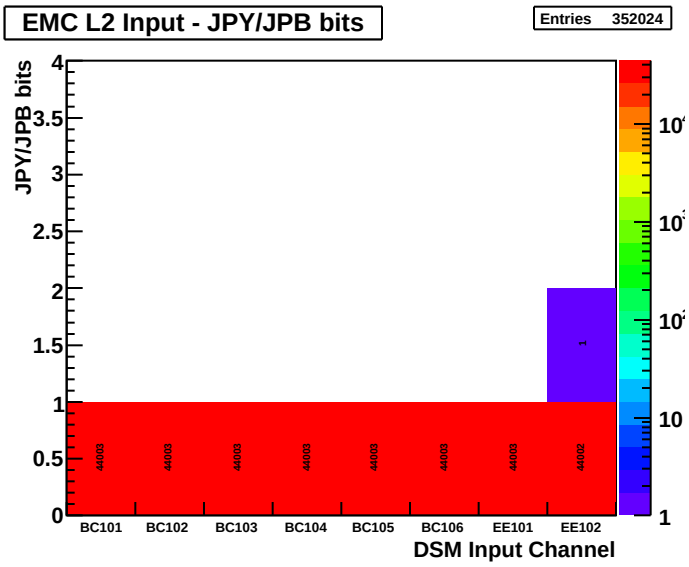

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

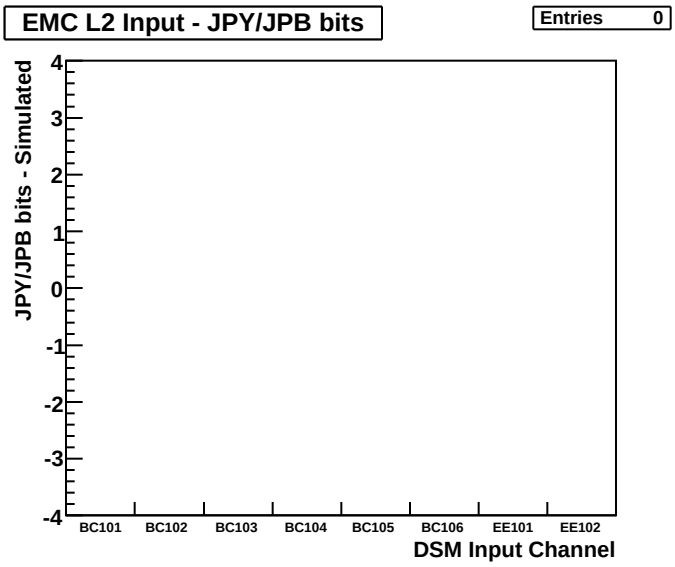

Endcap EMC L1 Input - High Tower Bits
Entries 528036
High Tower Bits
EE101
EE102
44003
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

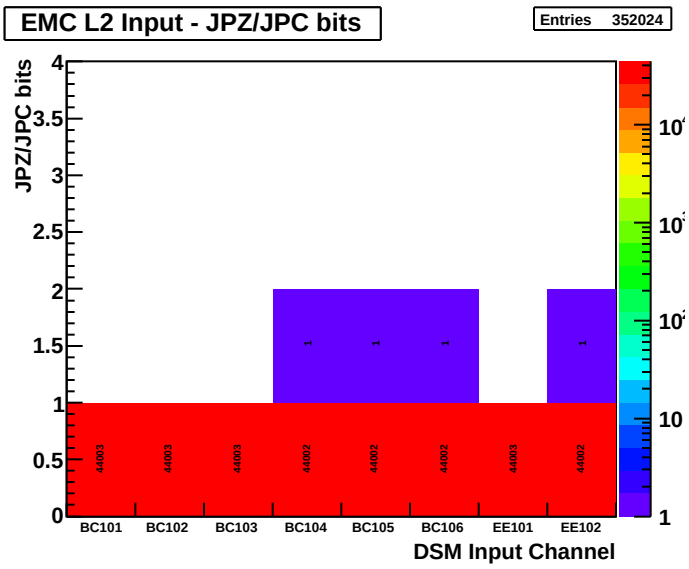

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

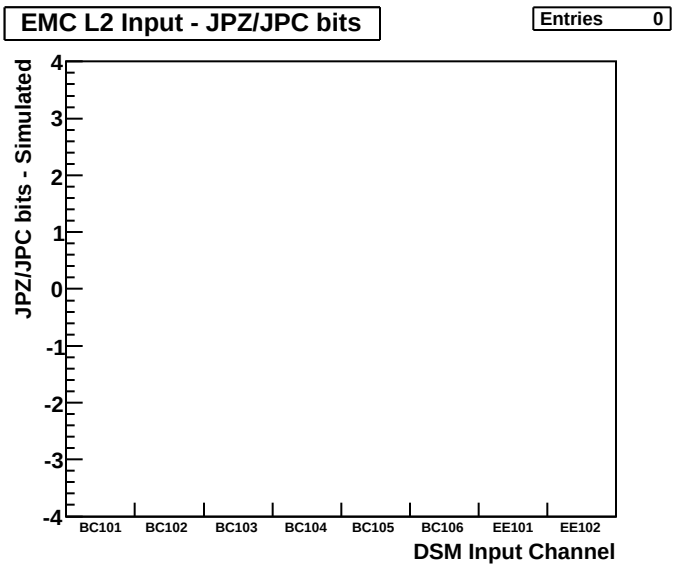

EMC L2 Input - JPX/JPA bits
Entries 352024
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

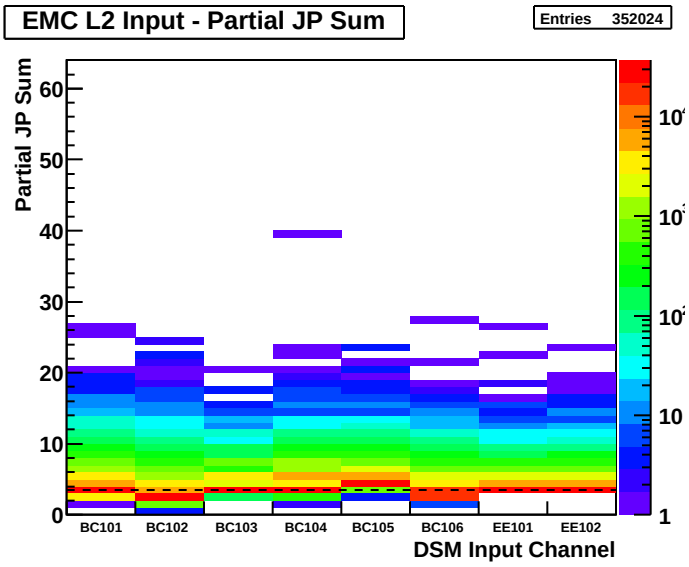

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

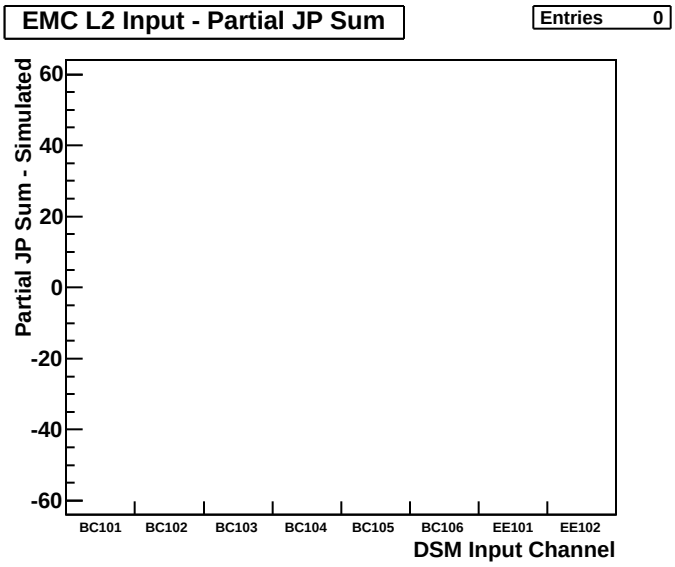

EMC L2 Input - JPY/JPB bits
Entries 352024
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

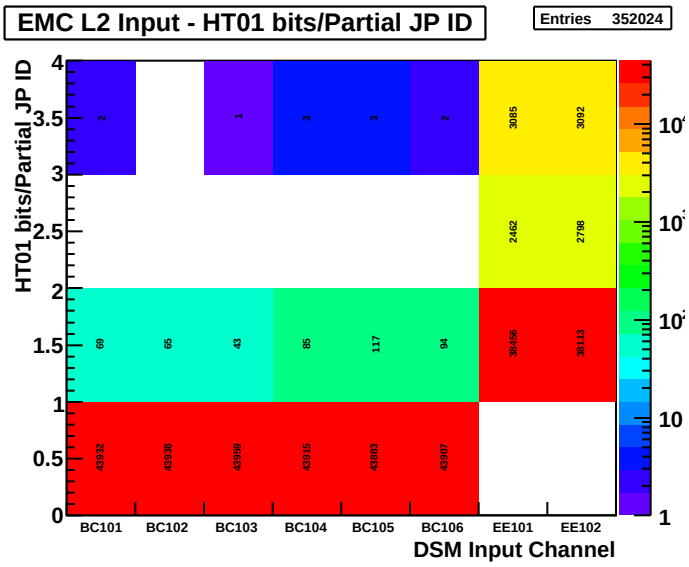

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

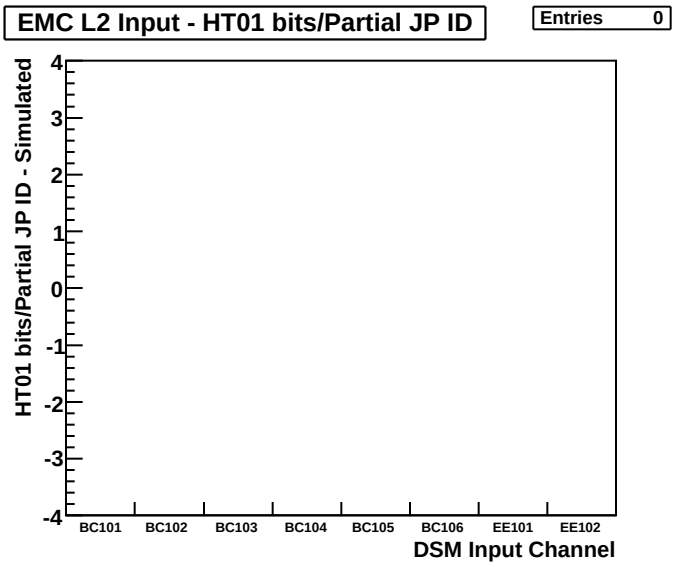

EMC L2 Input - JPZ/JPC bits
Entries 352024
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

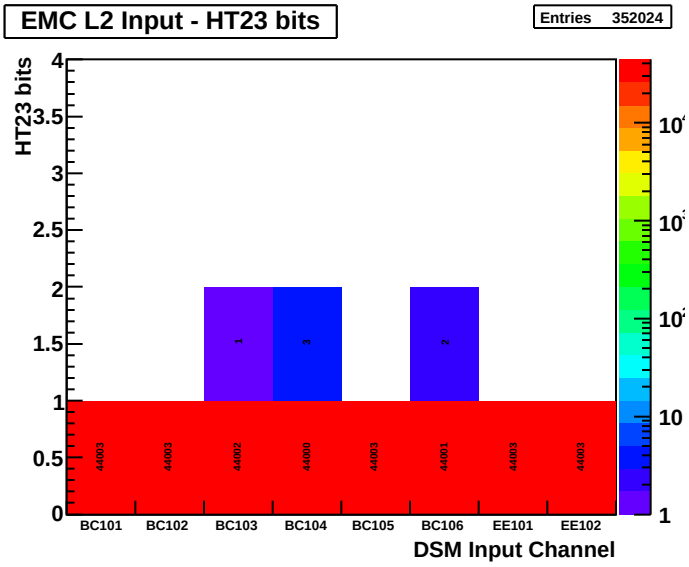

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

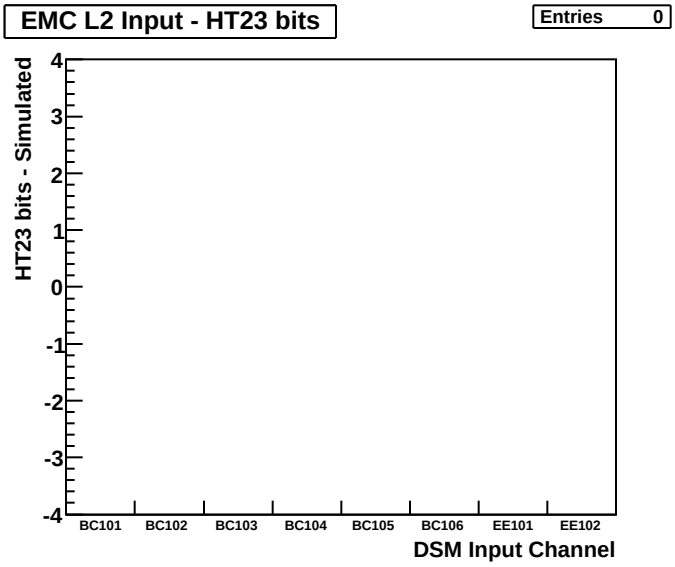

EMC L2 Input - Partial JP Sum
Entries 352024
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

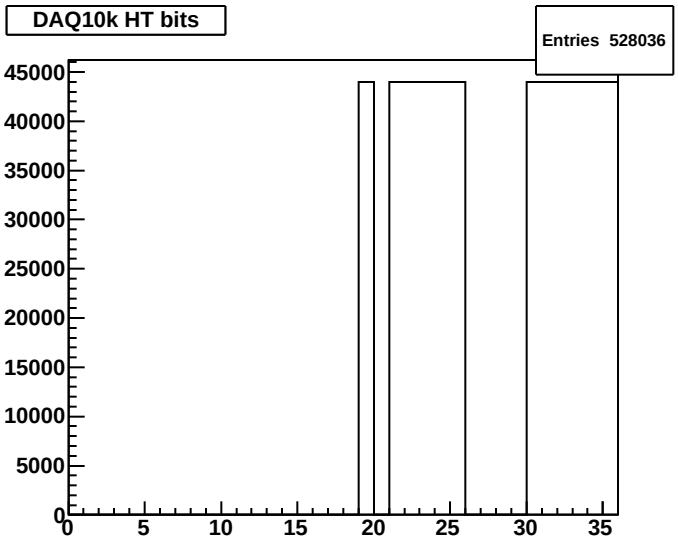

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

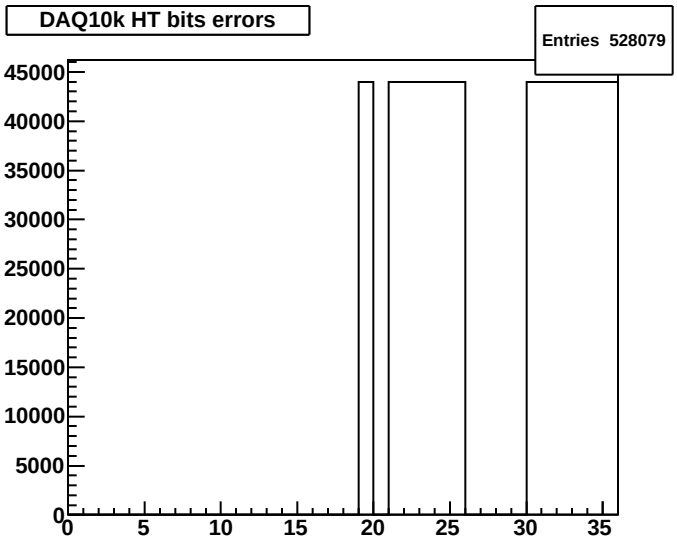

EMC L2 Input - HT01 bits/Partial JP ID
Entries 352024
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

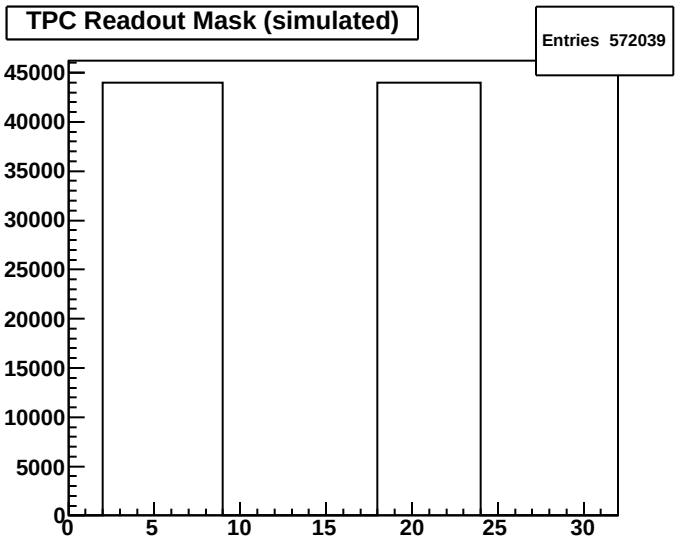

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

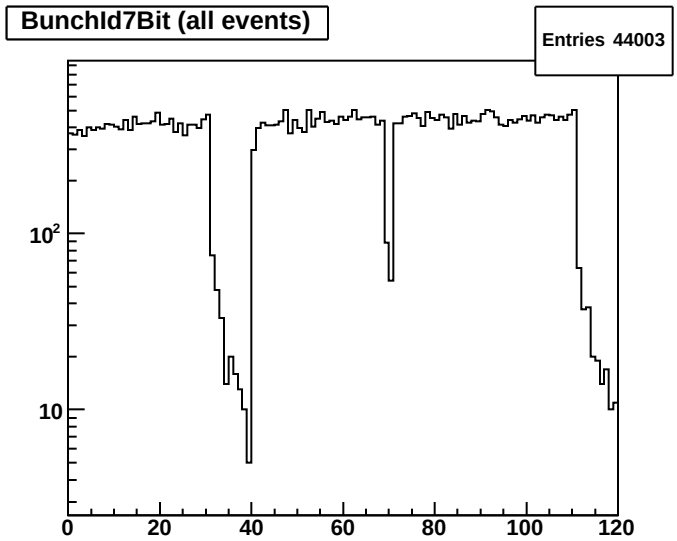

EMC L2 Input - HT23 bits
Entries 352024
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

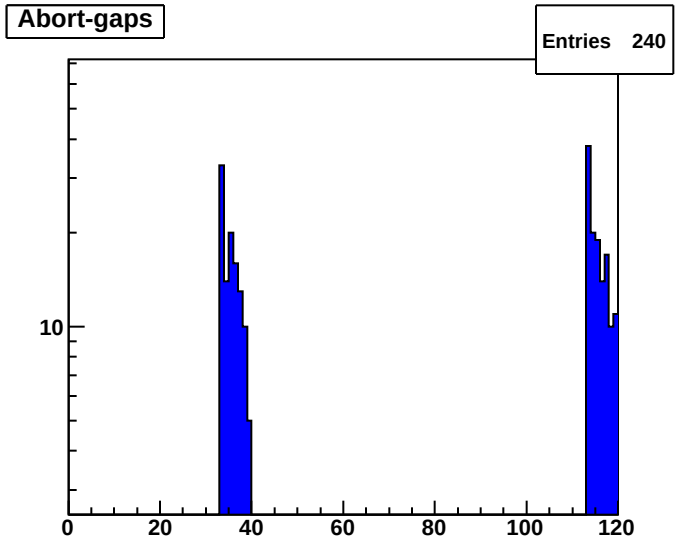

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

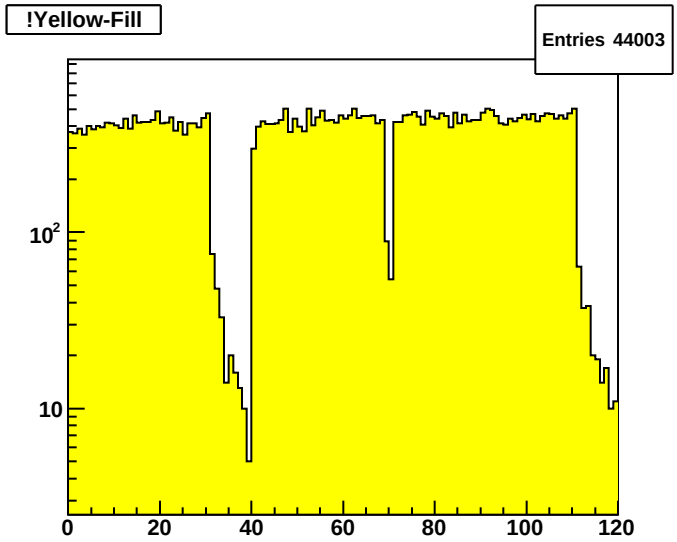

DAQ10k HT bits
Entries 528036

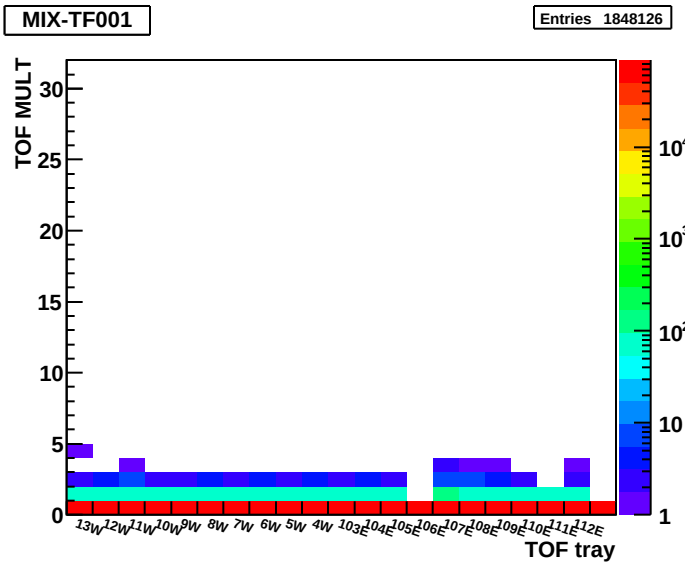

DAQ10k HT bits errors
Entries 528079

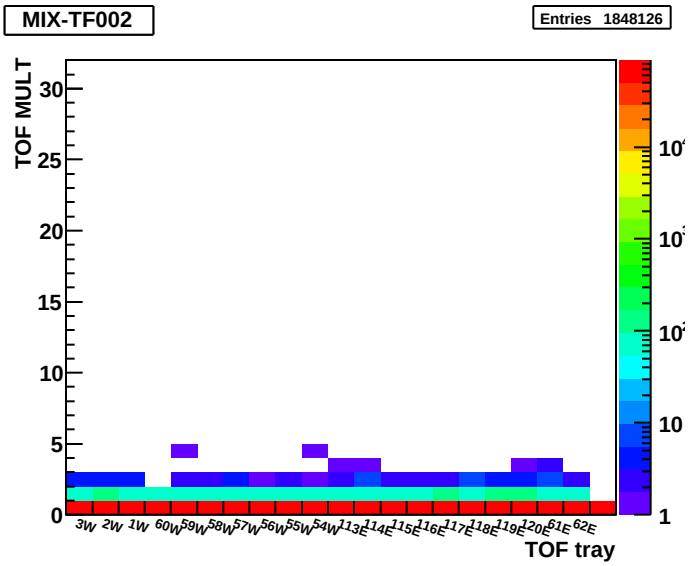

TPC Readout Mask (simulated)
Entries 572039

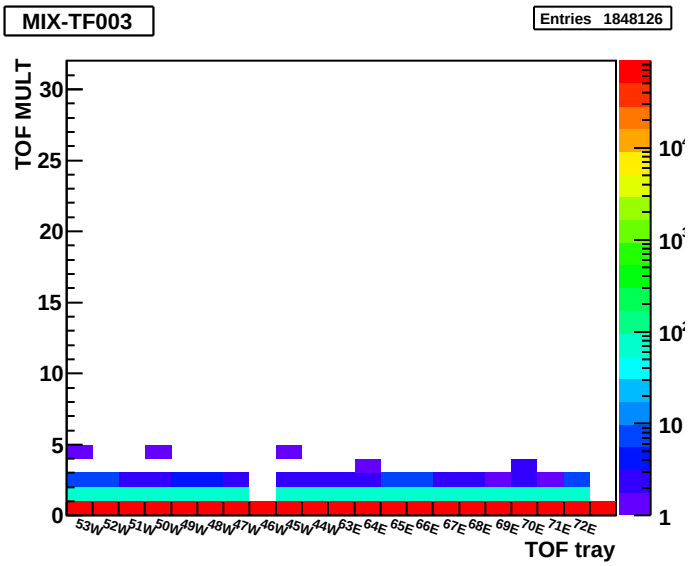

BunchId7Bit (all events)
Entries 44003

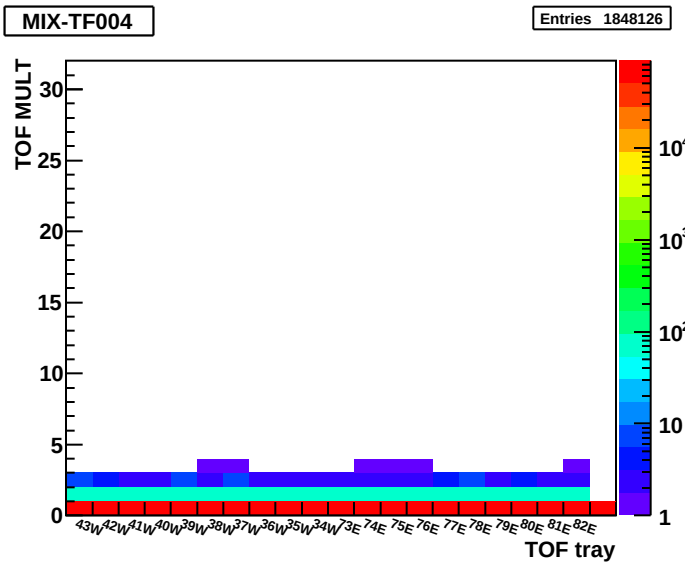

Abort-gaps
Entries 240

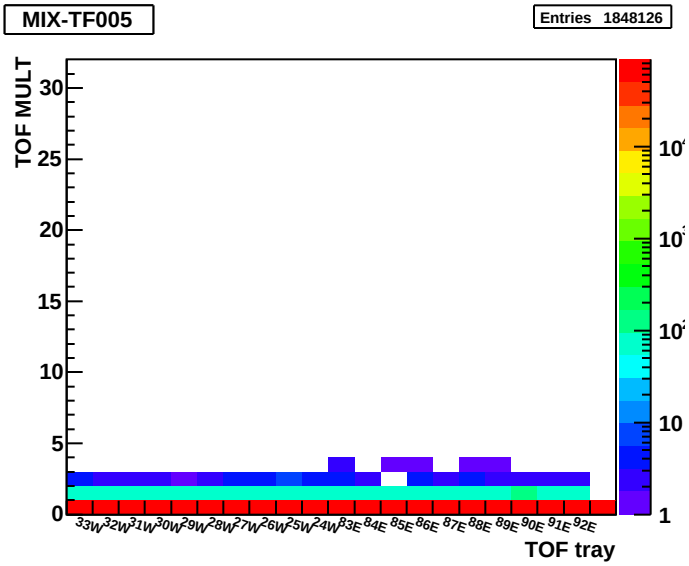

!Yellow-Fill
Entries 44003

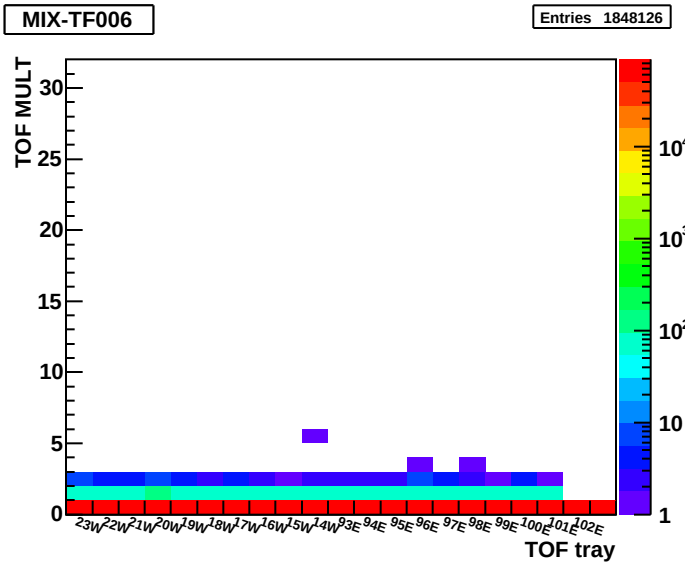

MIX-TF001
Entries 1848126
TOF MULT
TOF tray

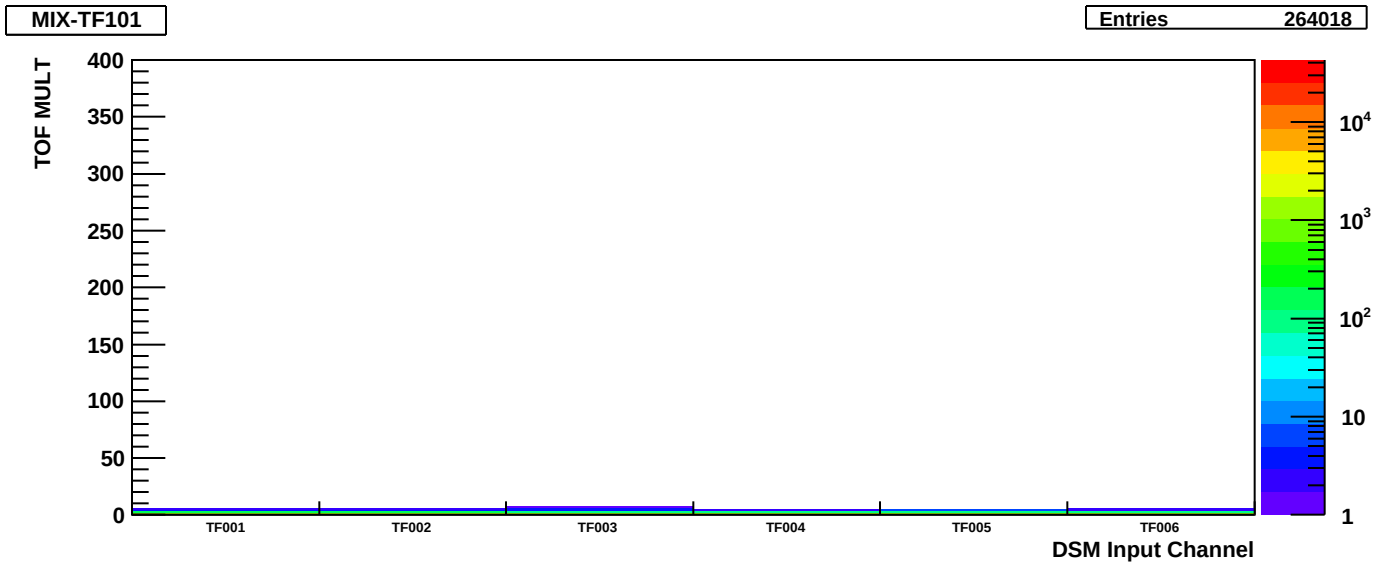

MIX-TF002
Entries 1848126
TOF MULT
TOF tray

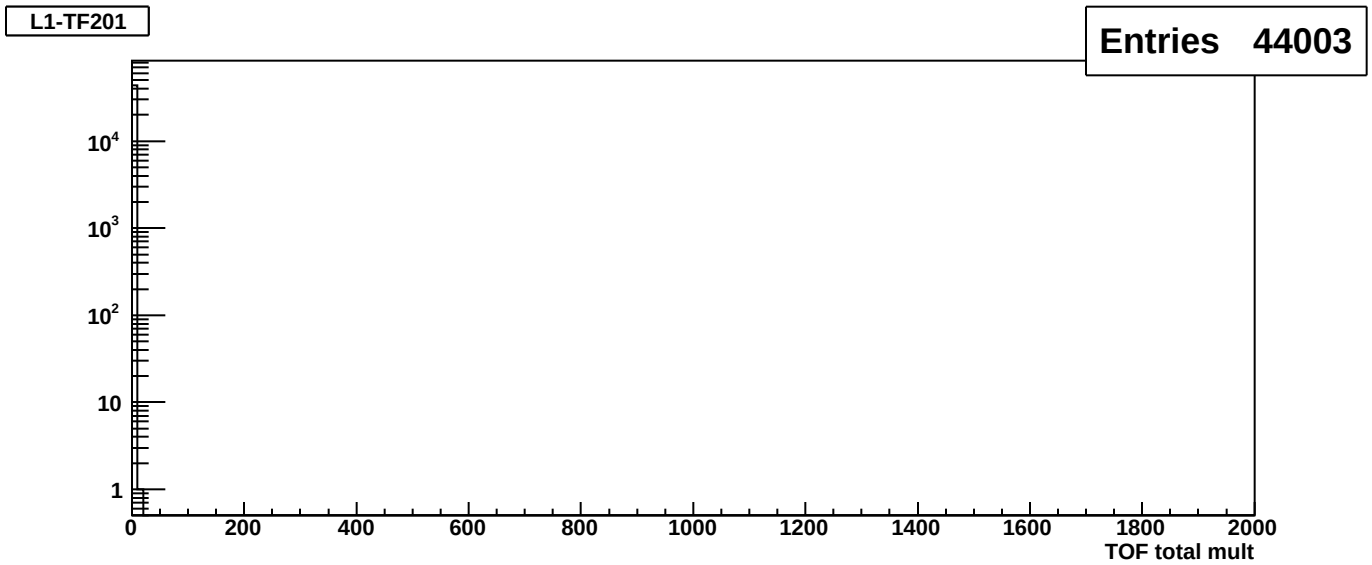

MIX-TF003
Entries 1848126
TOF MULT
TOF tray

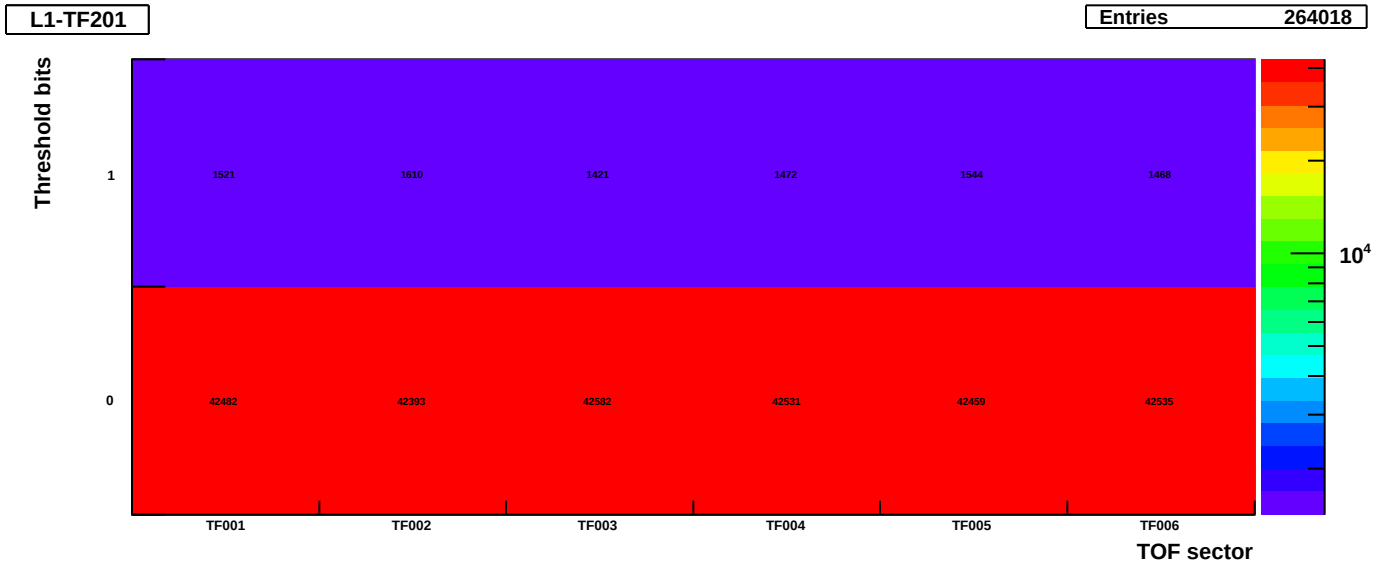

MIX-TF004
Entries 1848126
TOF MULT
TOF tray

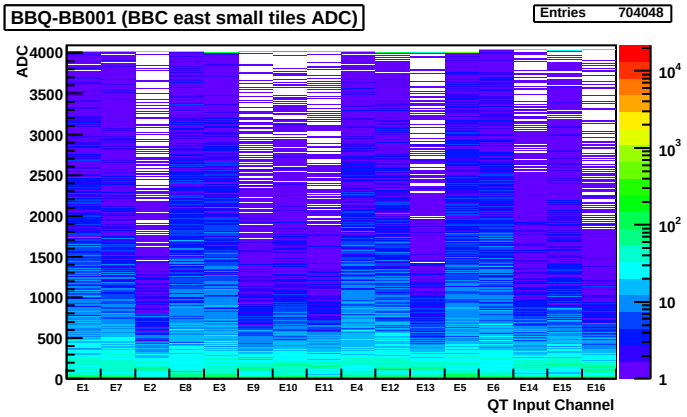

MIX-TF005
Entries 1848126
TOF MULT
TOF tray

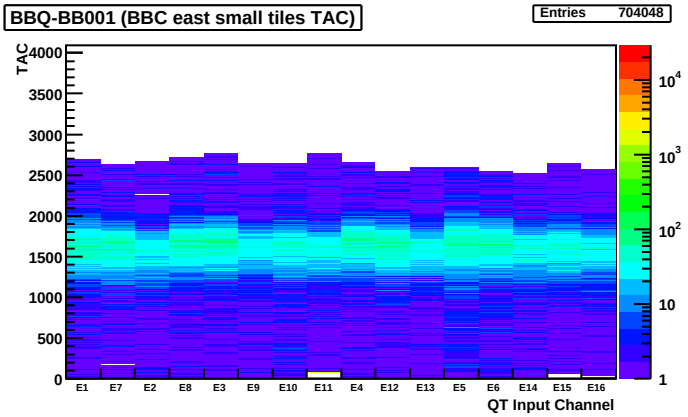

MIX-TF006
Entries 1848126
TOF MULT
TOF tray

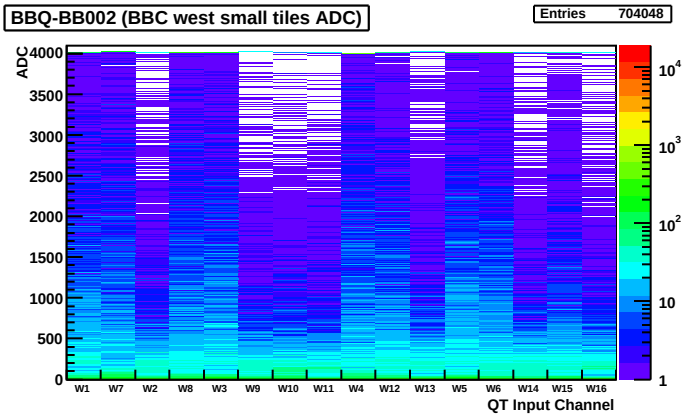

MIX-TF101
Entries 264018
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

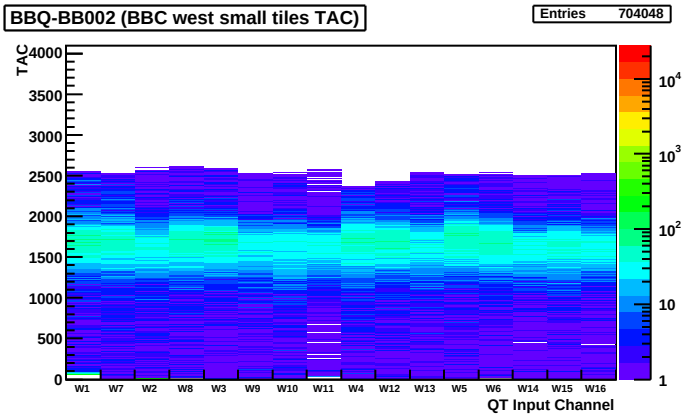

L1-TF201
Entries 44003
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

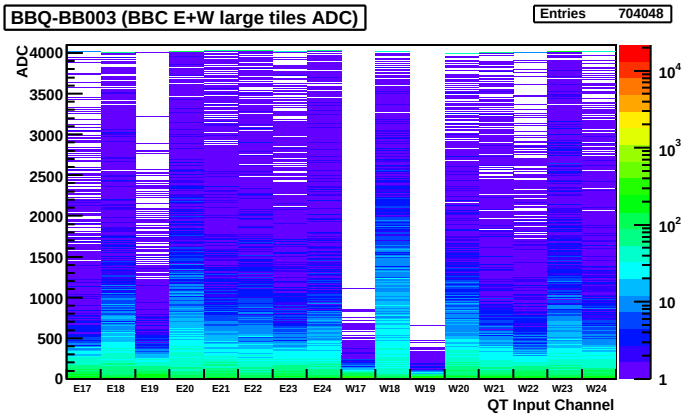

L1-TF201
Entries 264018
Threshold bits
1
0
1521
1610
1421
1472
1544
1468
42482
42393
42582
42531
42459
42535
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

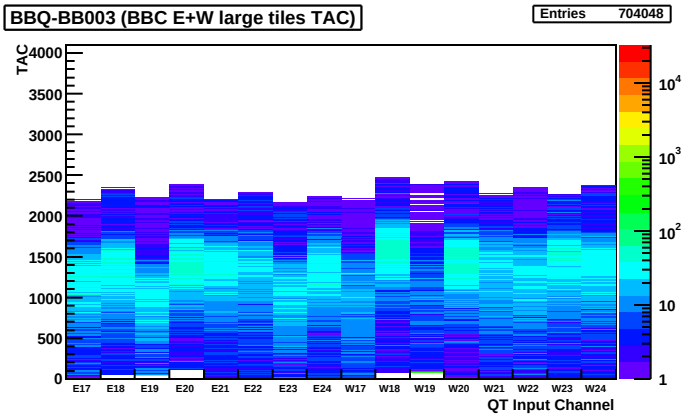

BBQ-BB001 (BBC east small tiles ADC)
Entries 704048
ADC
QT Input Channel

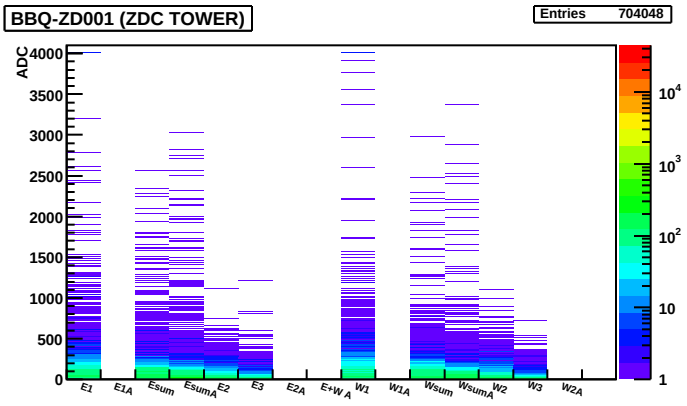

BBQ-BB001 (BBC east small tiles TAC)
Entries 704048
TAC
QT Input Channel

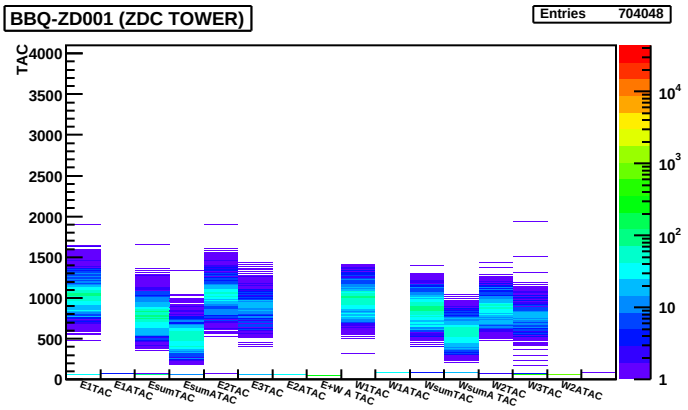

BBQ-BB002 (BBC west small tiles ADC)
Entries 704048
ADC
QT Input Channel

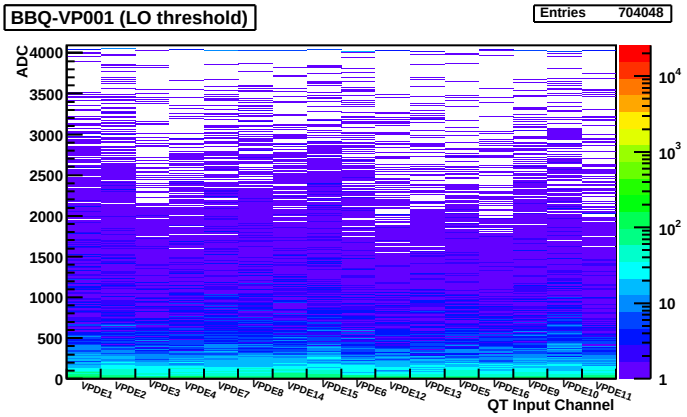

BBQ-BB002 (BBC west small tiles TAC)
Entries 704048
TAC
QT Input Channel

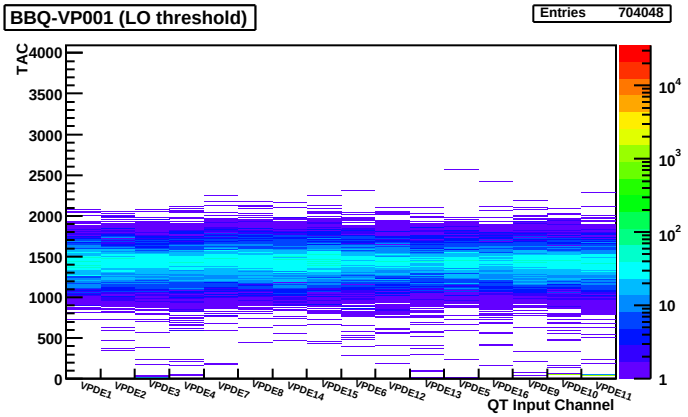

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 704048
ADC
QT Input Channel

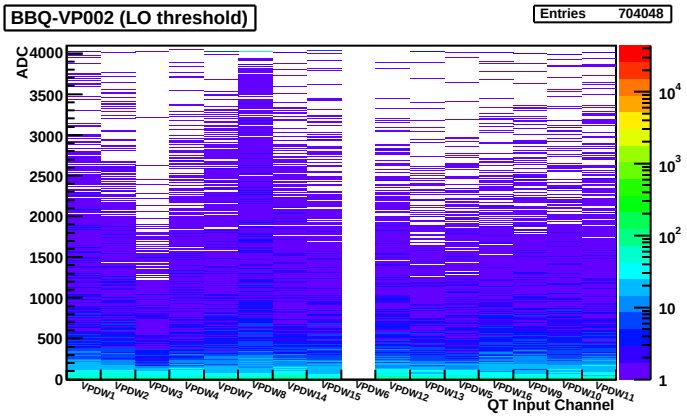

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 704048
TAC
QT Input Channel

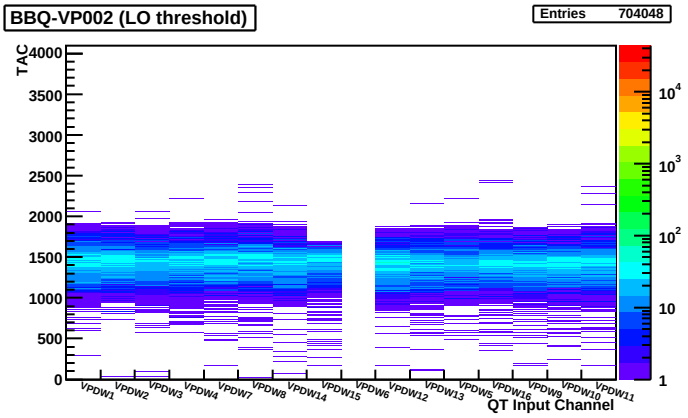

BBQ-ZD001 (ZDC TOWER)
Entries 704048
ADC

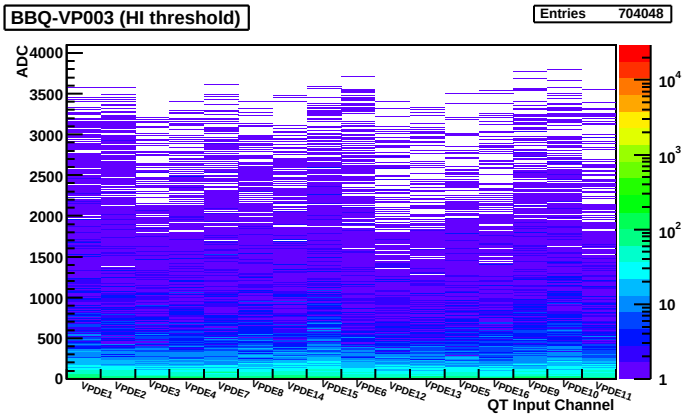

BBQ-ZD001 (ZDC TOWER)
Entries 704048
TAC

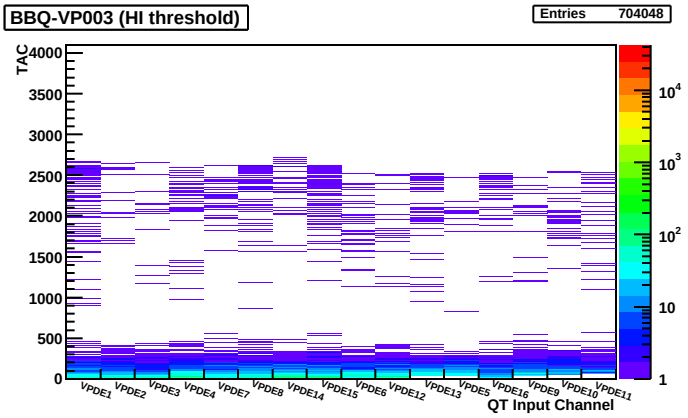

BBQ-VP001 (LO threshold)
Entries 704048
ADC
QT Input Channel

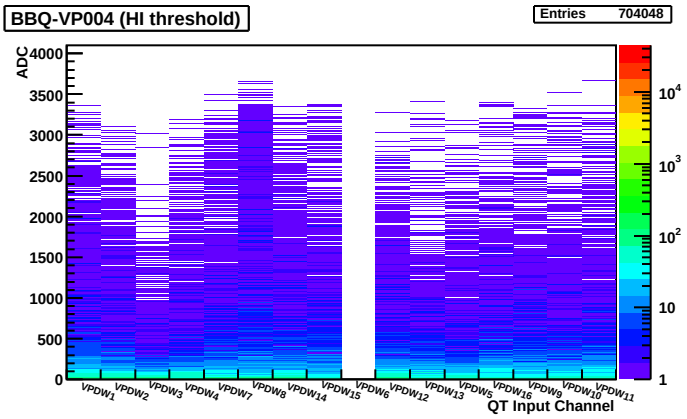

BBQ-VP001 (LO threshold)
Entries 704048
TAC
QT Input Channel

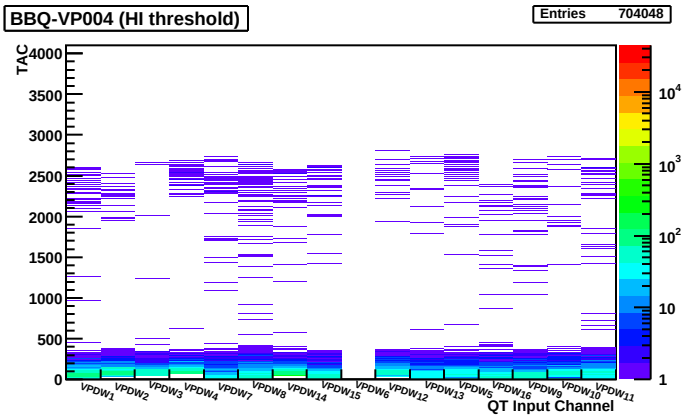

BBQ-VP002 (LO threshold)
Entries 704048
ADC
QT Input Channel

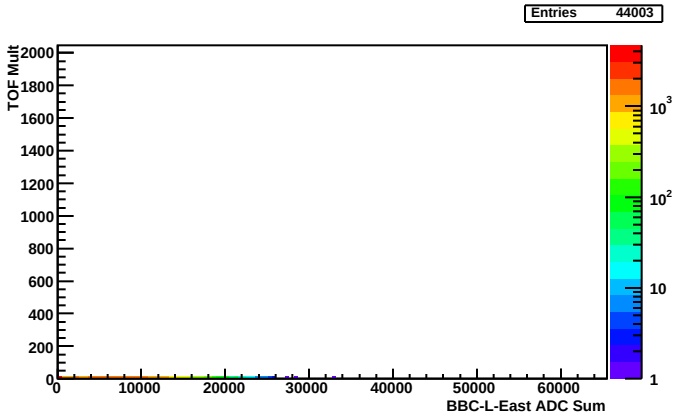

BBQ-VP002 (LO threshold)
Entries 704048
TAC
QT Input Channel

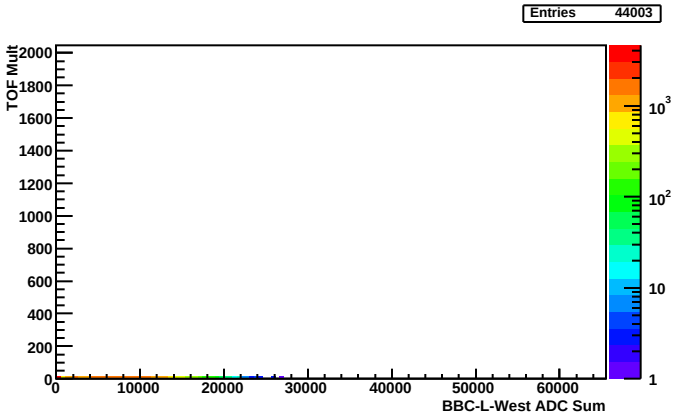

BBQ-VP003 (HI threshold)
Entries 704048
ADC
QT Input Channel

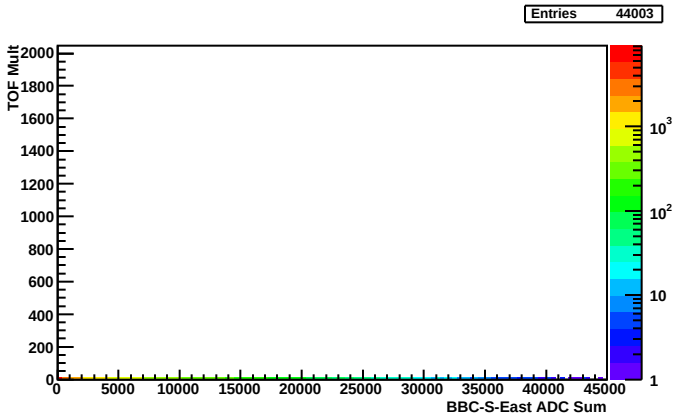

BBQ-VP003 (HI threshold)
Entries 704048
TAC
QT Input Channel

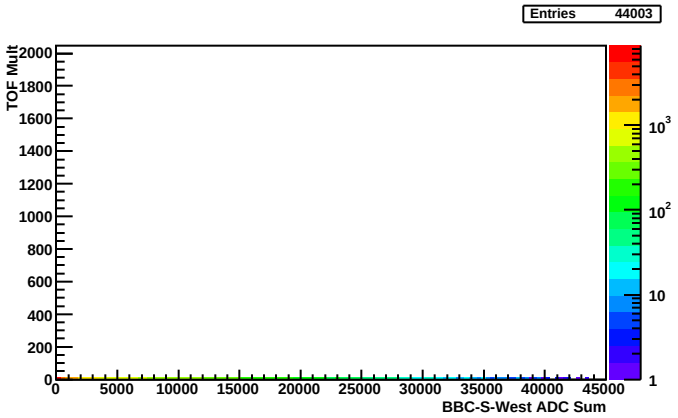

BBQ-VP004 (HI threshold)
Entries 704048
ADC
QT Input Channel

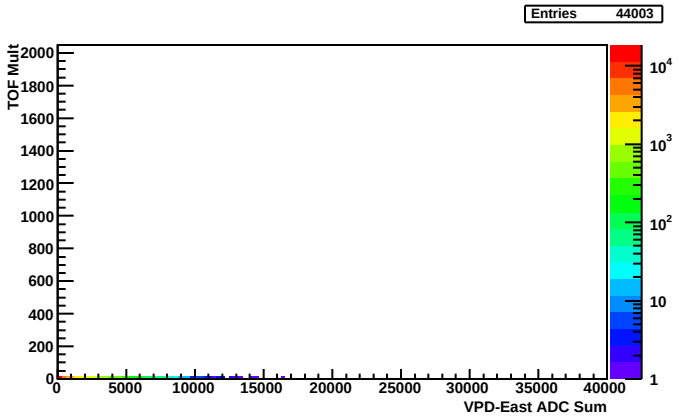

BBQ-VP004 (HI threshold)
Entries 704048
TAC
QT Input Channel

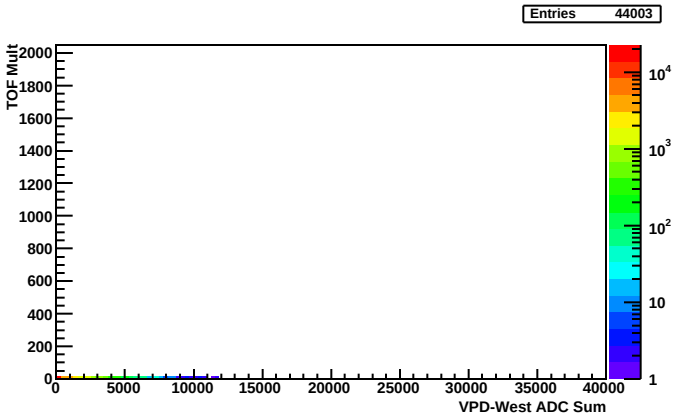

Entries 44003
TOF Mult
BBC-L-East ADC Sum

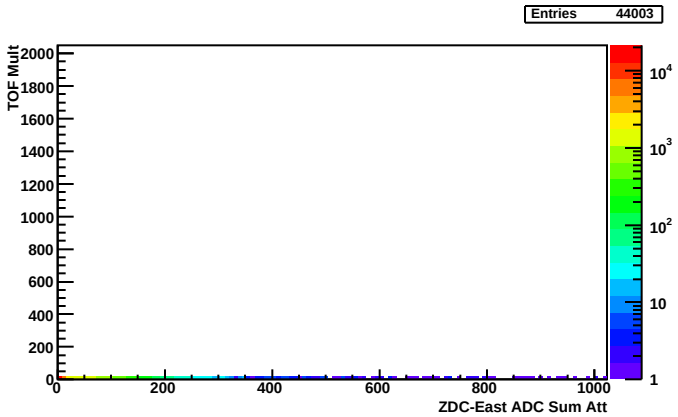

Entries 44003
TOF Mult
BBC-L-West ADC Sum

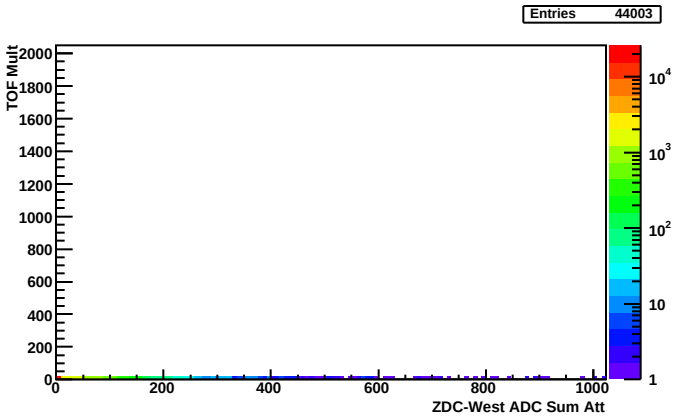

Entries 44003
TOF Mult
BBC-S-East ADC Sum

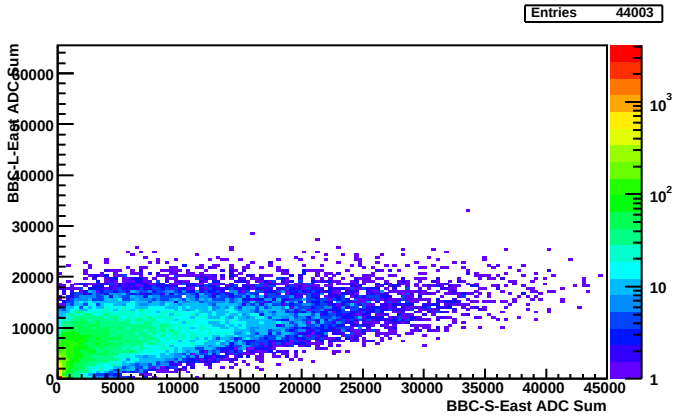

Entries 44003
TOF Mult
BBC-S-West ADC Sum

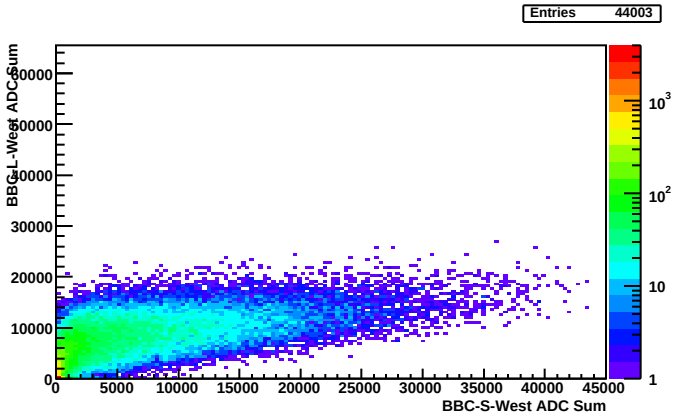

Entries 44003
TOF Mult
VPD-East ADC Sum

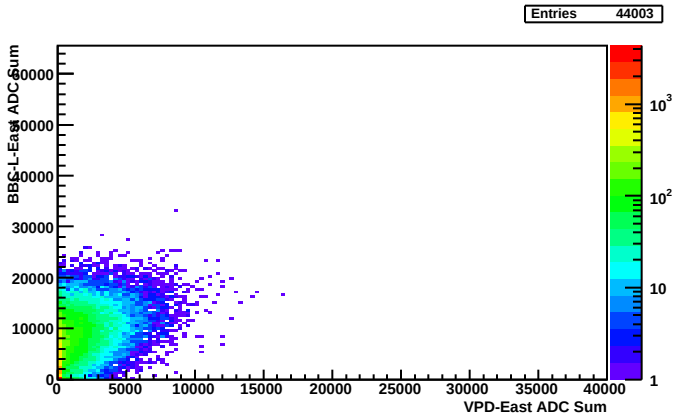

Entries 44003
TOF Mult
VPD-West ADC Sum

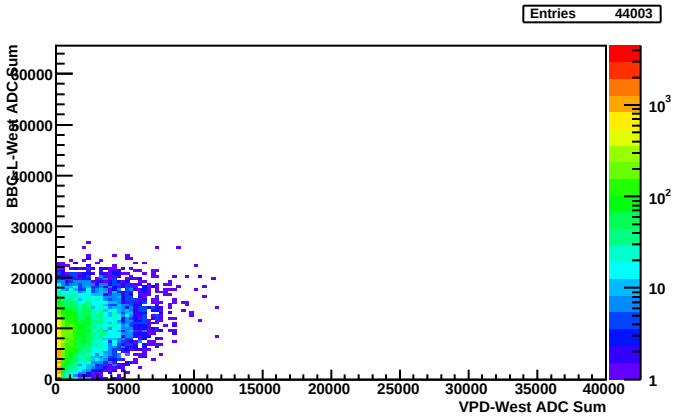

Entries 44003
TOF Mult
ZDC-East ADC Sum Att

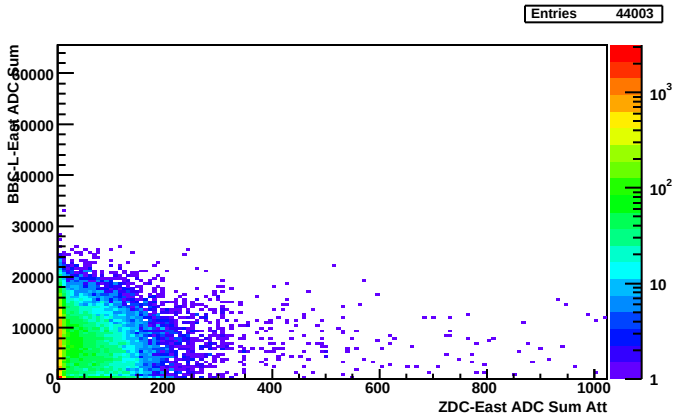

Entries 44003
TOF Mult
ZDC-West ADC Sum Att

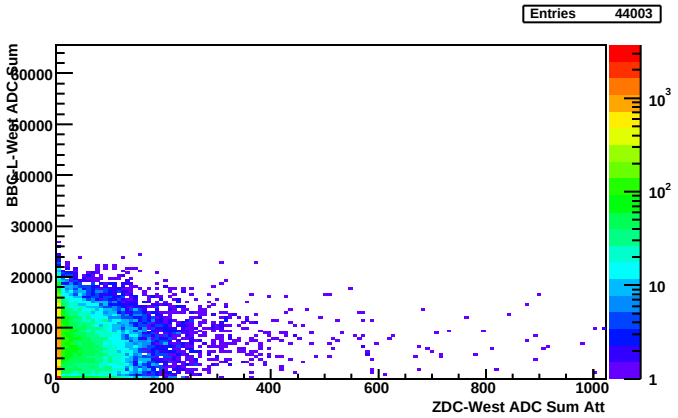

Entries 44003
BBC-L-East ADC Sum
BBC-S-East ADC Sum

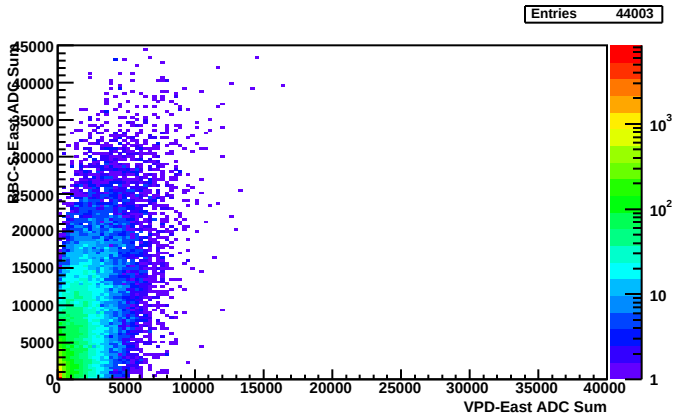

Entries 44003
BBC-L-West ADC Sum
BBC-S-West ADC Sum

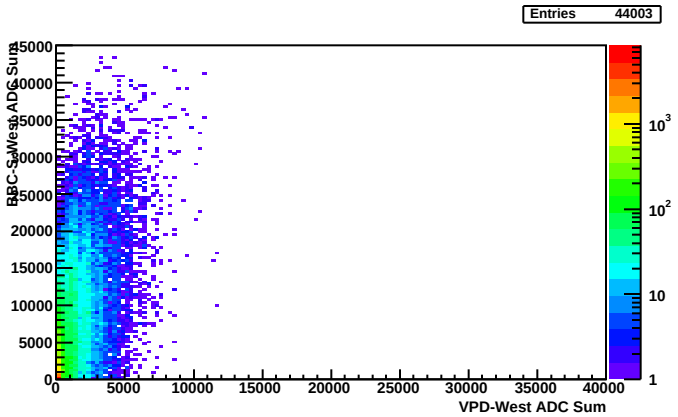

Entries 44003
BBC-L-East ADC Sum
VPD-East ADC Sum

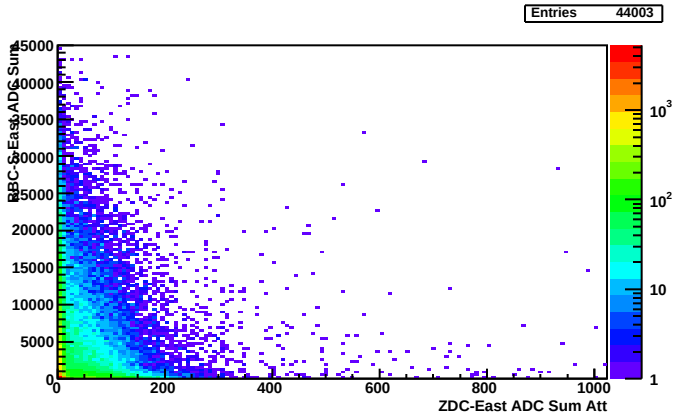

Entries 44003
BBC-L-West ADC Sum
VPD-West ADC Sum

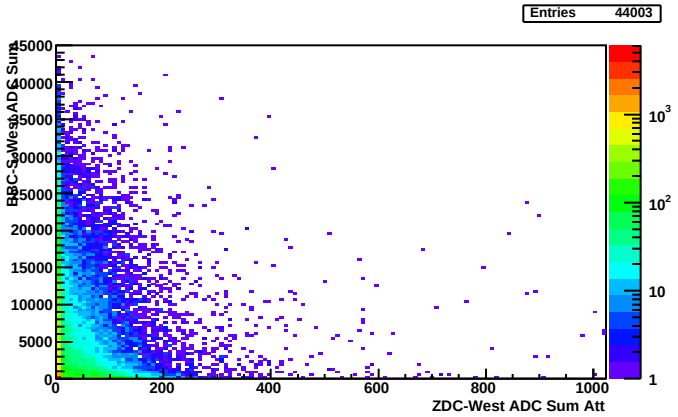

Entries 44003
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

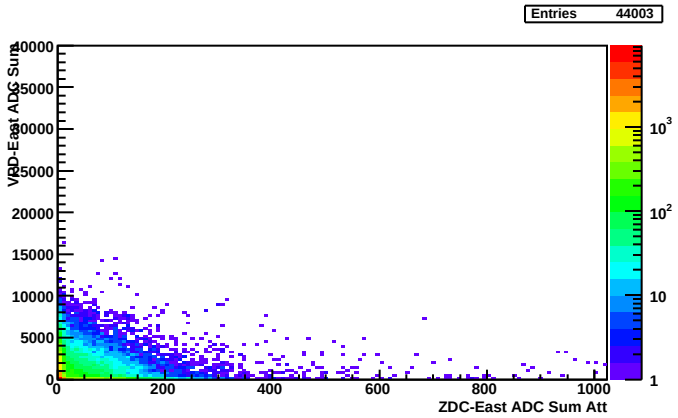

Entries 44003
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

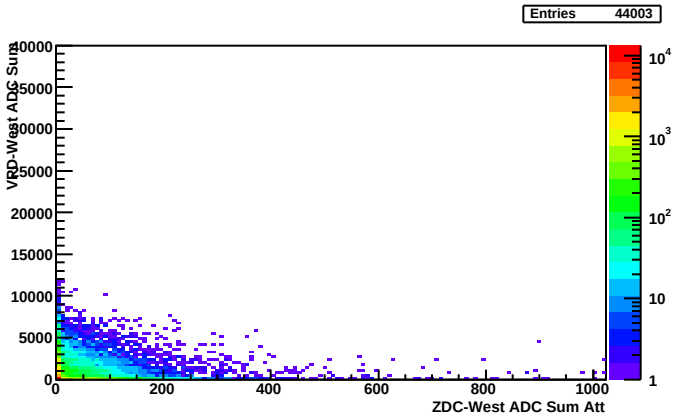

Entries 44003
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 44003
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 44003
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 44003
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 44003
VPD-East ADC Sum
ZDC-East ADC Sum Att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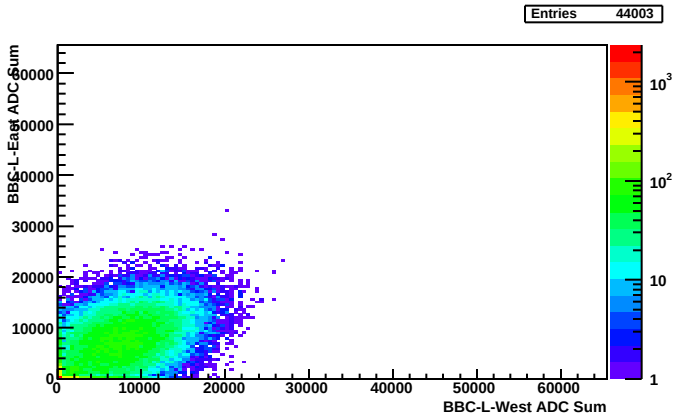
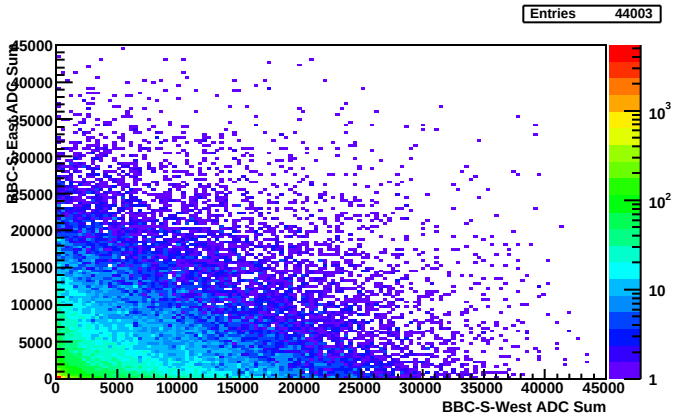
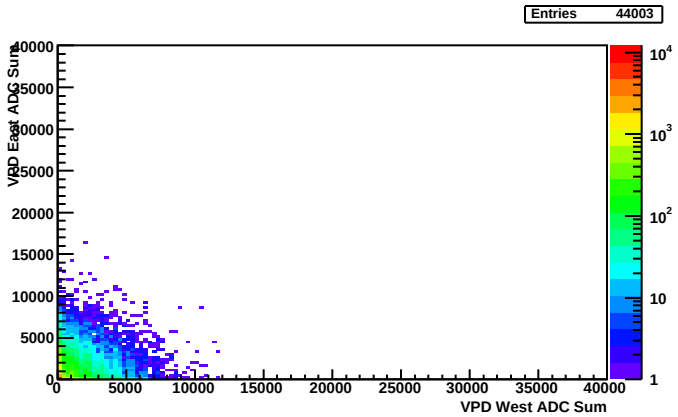
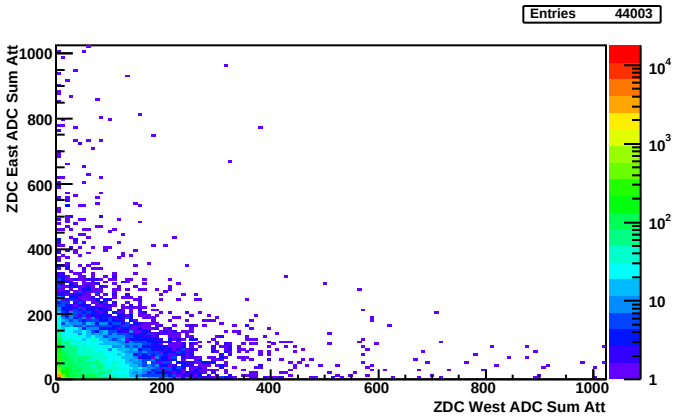
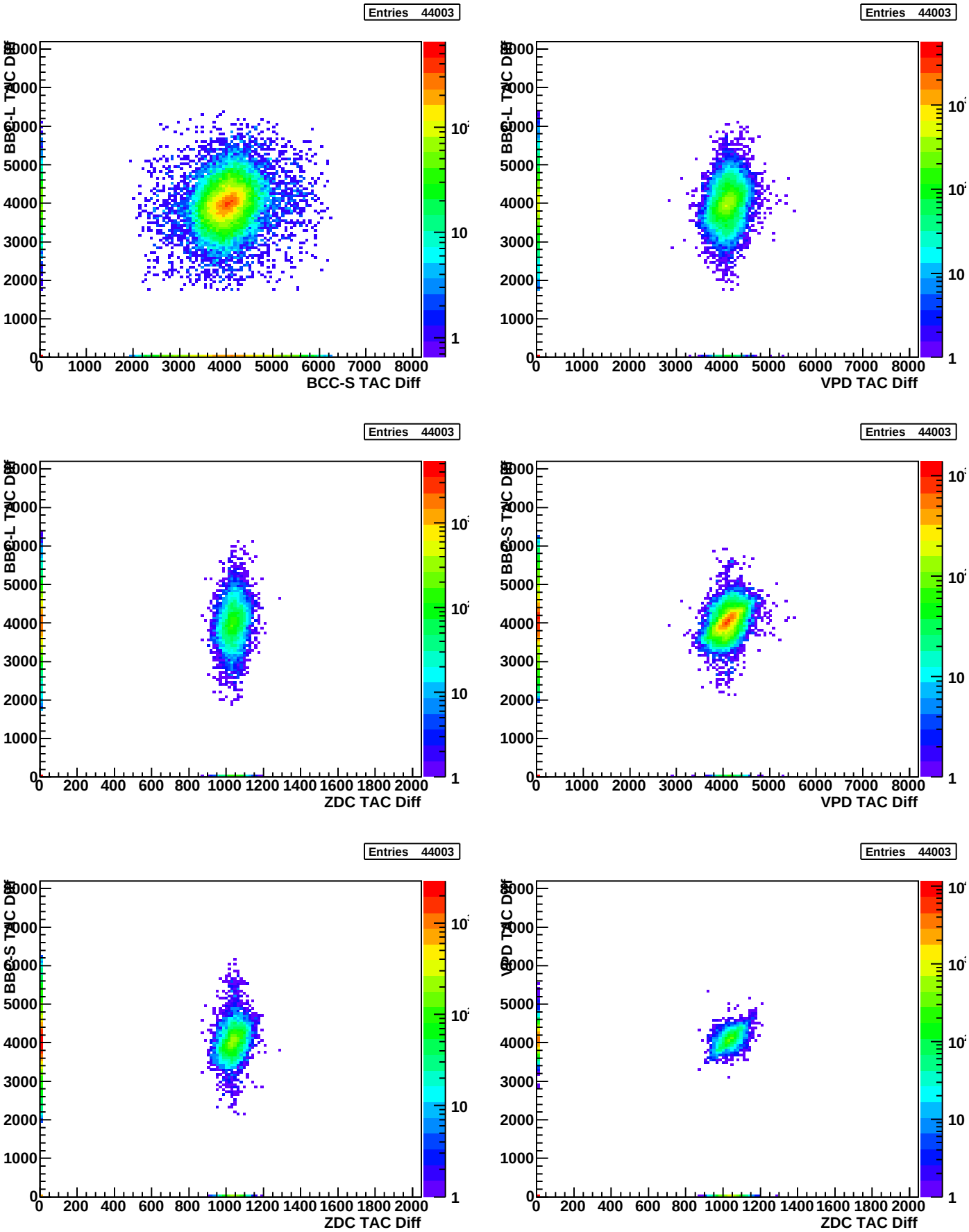
VPD-West ADC Sum
ZDC-West ADC Sum Att

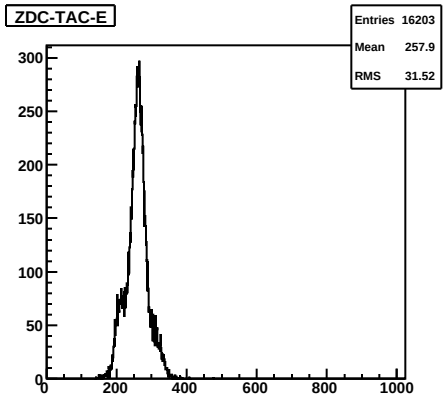

Entries 44003
BBC-L-East ADC Sum
BBC-L-West ADC Sum

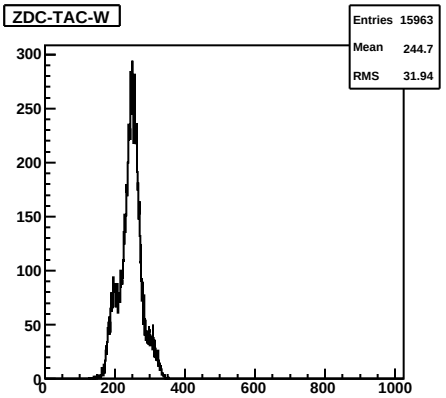

Entries 44003
BBC-S-East ADC Sum
BBC-S-West ADC Sum

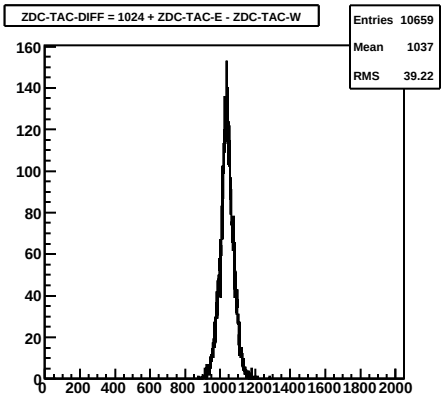

Entries 44003
VPD East ADC Sum
VPD West ADC Sum

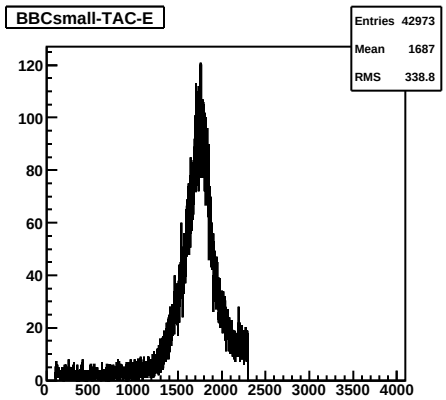

Entries 44003
ZDC East ADC Sum Att
ZDC West ADC Sum Att

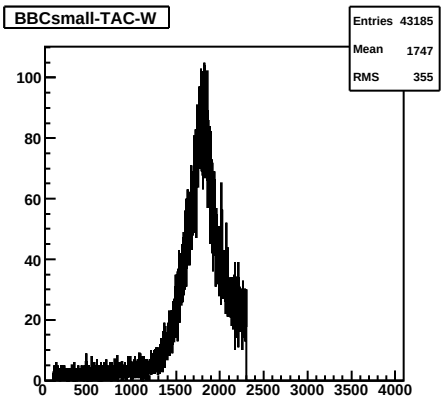

Entries 44003
BBC-L TAC Diff
BCC-S TAC Diff
Entries 44003
BBC-L TAC Diff
VPD TAC Diff
Entries 44003
BBC-L TAC Diff
ZDC TAC Diff
Entries 44003
BBC-S TAC Diff
VPD TAC Diff
Entries 44003
BBC-S TAC Diff
ZDC TAC Diff
Entries 44003
VPD TAC Diff
ZDC TAC Diff

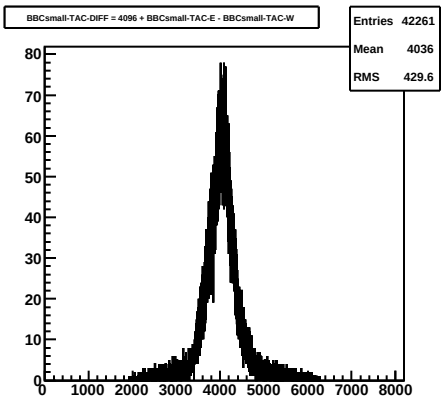

ZDC-TAC-E
Entries 16203
Mean 257.9
RMS 31.52

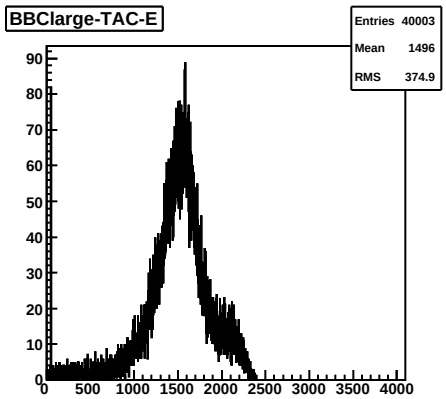

ZDC-TAC-W
Entries 15963
Mean 244.7
RMS 31.94

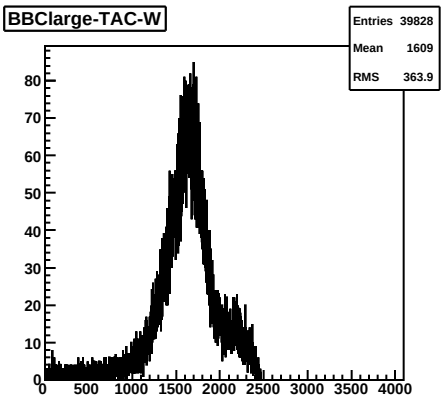

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 10659
Mean 1037
RMS 39.22

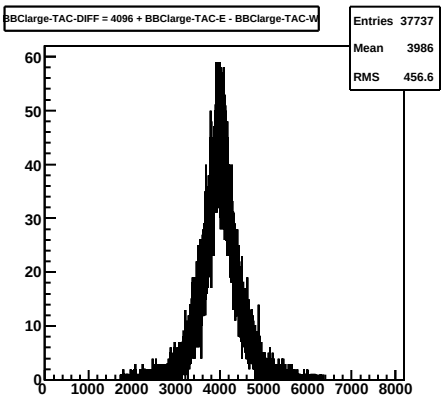

BBCsmall-TAC-E
Entries 42973
Mean 1687
RMS 338.8

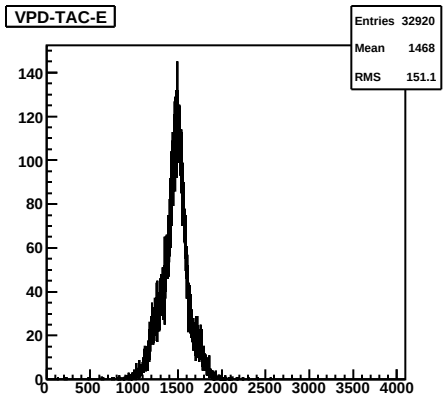

BBCsmall-TAC-W
Entries 43185
Mean 1747
RMS 355

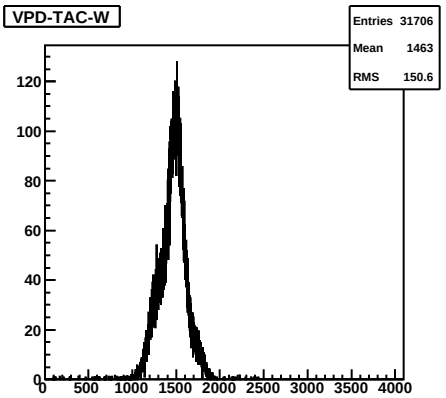

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 42261
Mean 4036
RMS 429.6

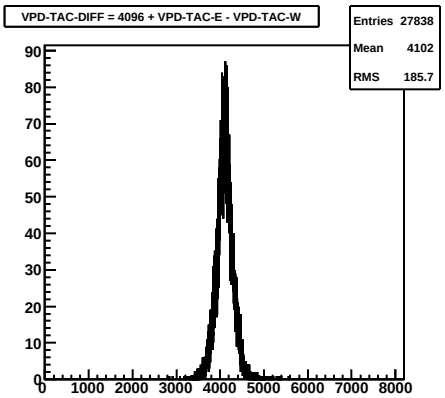

BBClarge-TAC-E
Entries 40003
Mean 1496
RMS 374.9

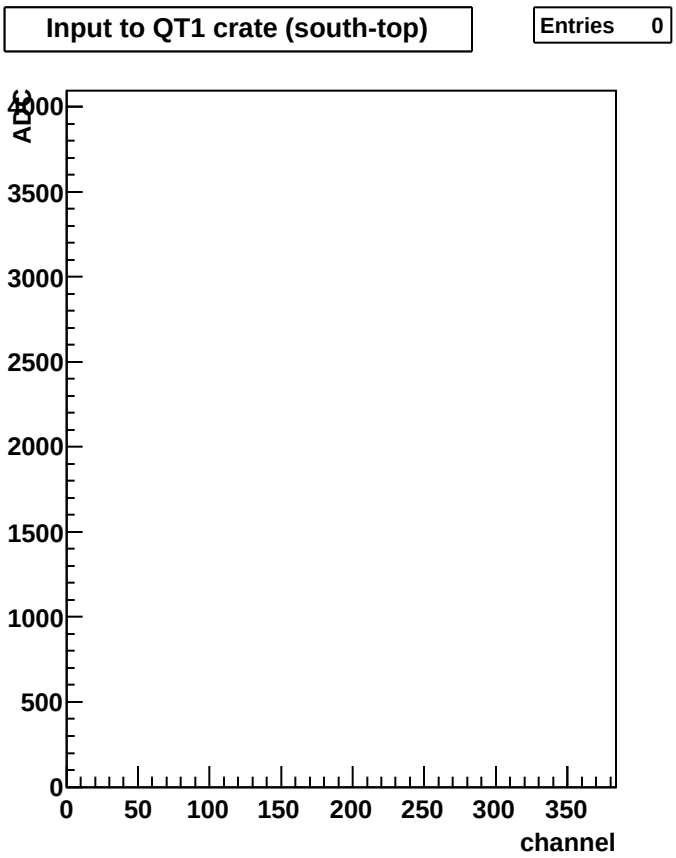

BBClarge-TAC-W
Entries 39828
Mean 1609
RMS 363.9

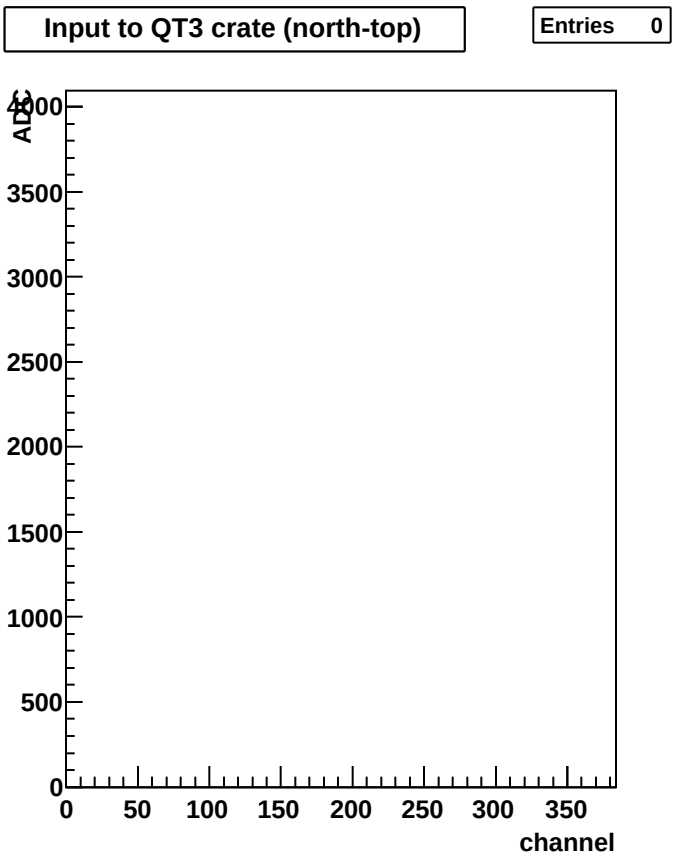

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 37737
Mean 3986
RMS 456.6

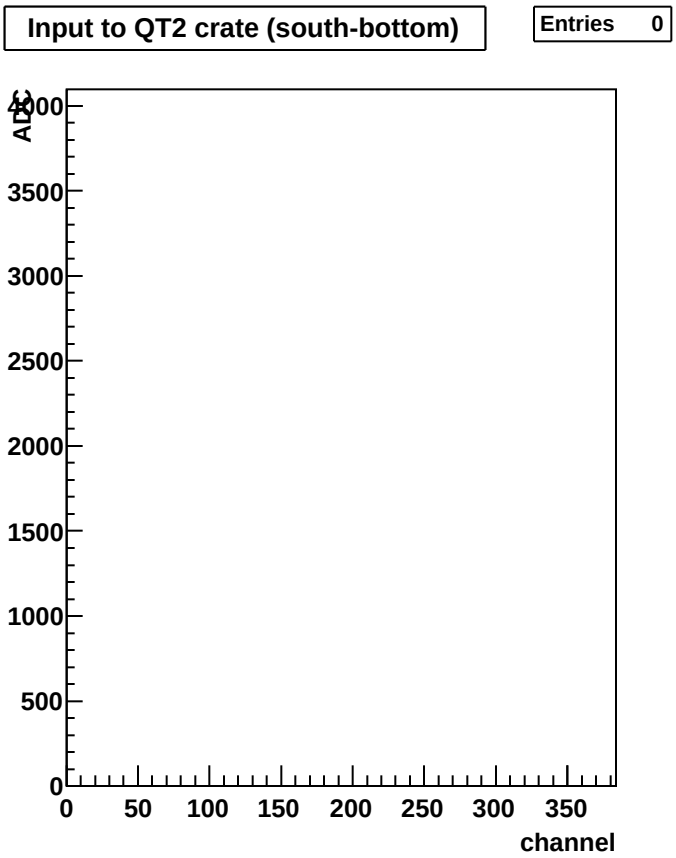

VPD-TAC-E
Entries 32920
Mean 1468
RMS 151.1

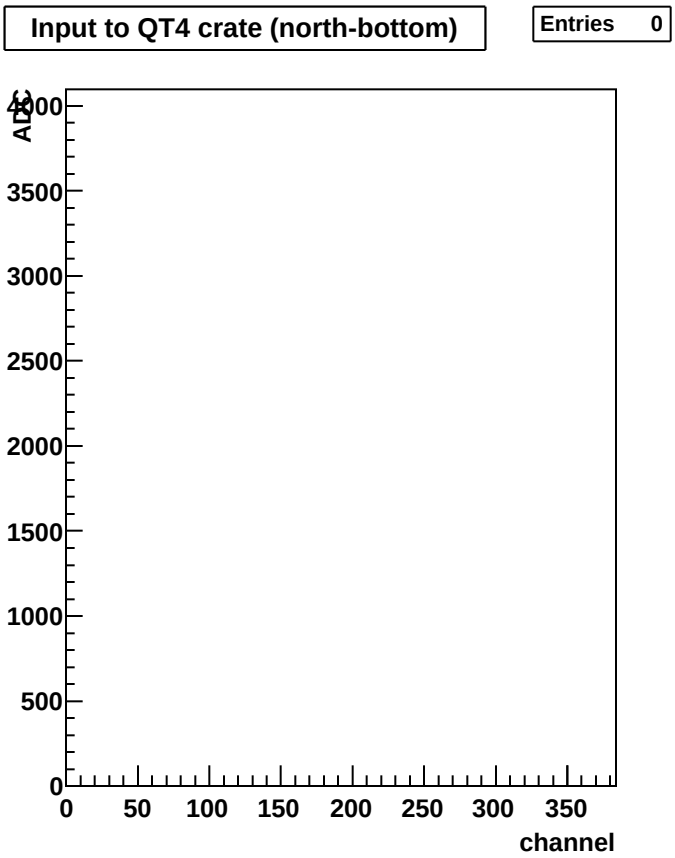

VPD-TAC-W
Entries 31706
Mean 1463
RMS 150.6

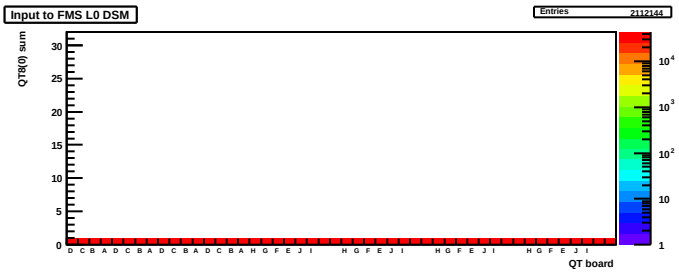

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 27838
Mean 4102
RMS 185.7

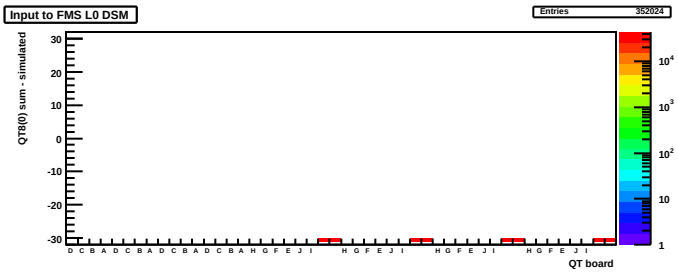

Input to QT1 crate (south-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

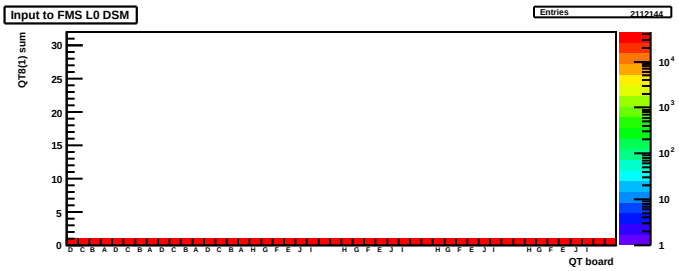

Input to QT3 crate (north-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

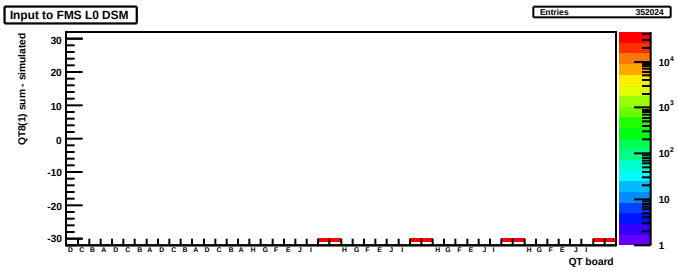

Input to QT2 crate (south-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

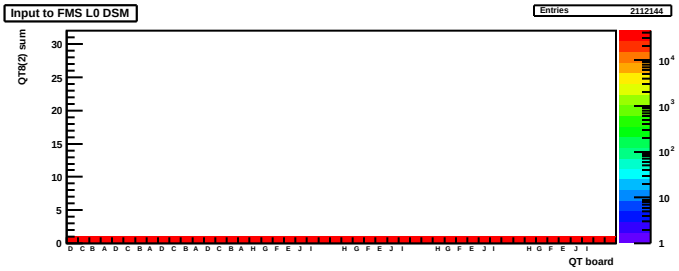

Input to QT4 crate (north-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

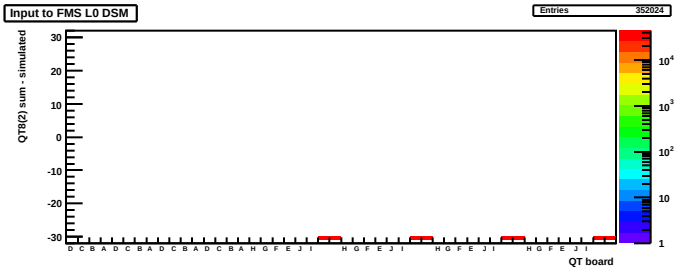

Input to FMS L0 DSM
Entries 2112144
QT8(0) sum
QT board

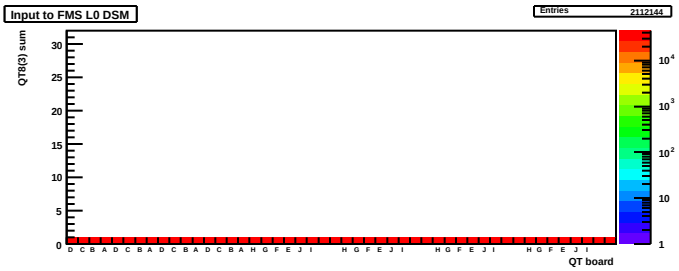

Input to FMS L0 DSM
Entries 352024
QT8(0) sum - simulated
QT board

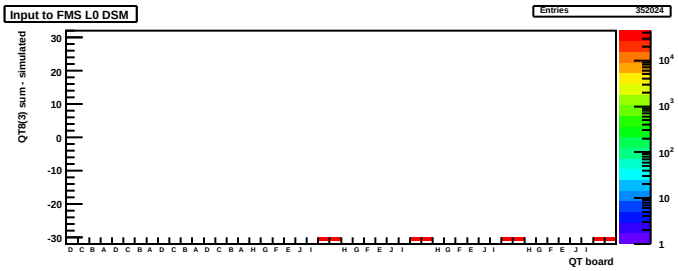

Input to FMS L0 DSM
Entries 2112144
QT8(1) sum
QT board

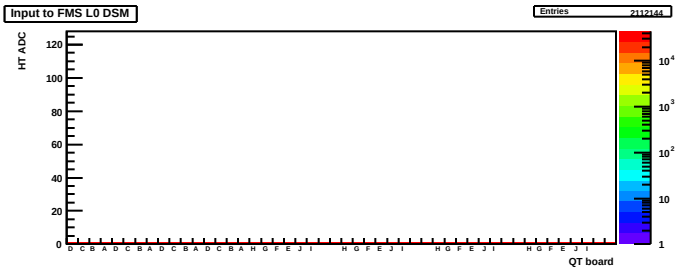

Input to FMS L0 DSM
Entries 352024
QT8(1) sum - simulated
QT board

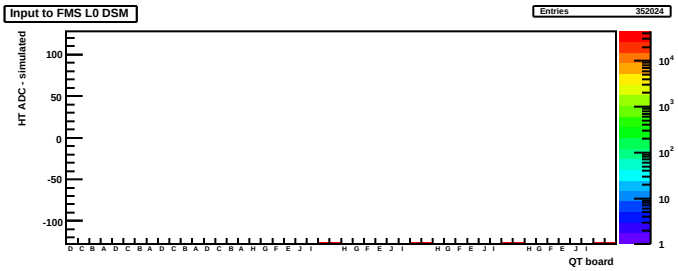

Input to FMS L0 DSM
Entries 2112144
QT8(2) sum
QT board

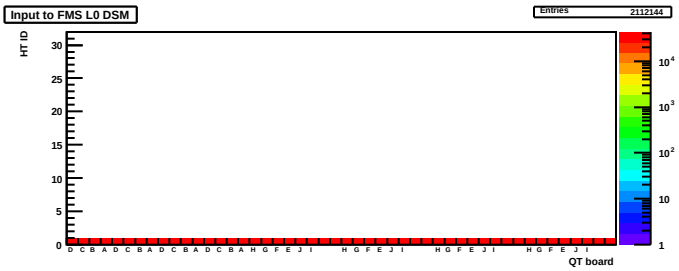

Input to FMS L0 DSM
Entries 352024
QT8(2) sum - simulated
QT board

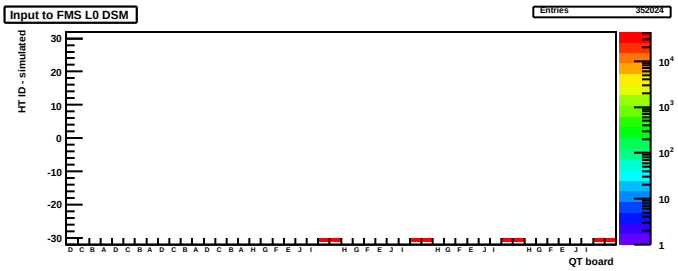

Input to FMS L0 DSM
Entries 2112144
QT8(3) sum
QT board

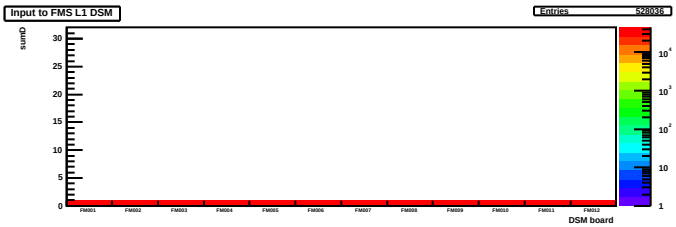

Input to FMS L0 DSM
Entries 352024
QT8(3) sum - simulated
QT board

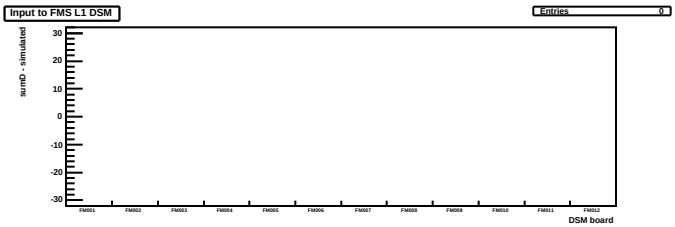

Input to FMS L0 DSM
Entries 2112144
HT ADC
QT board

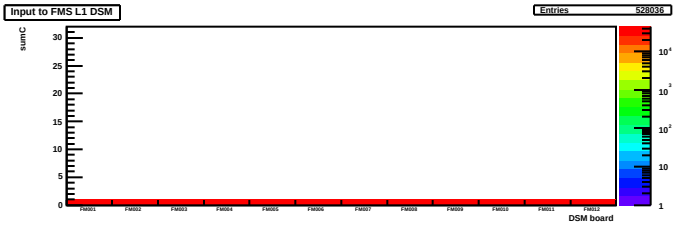

Input to FMS L0 DSM
Entries 352024
HT ADC - simulated
QT board

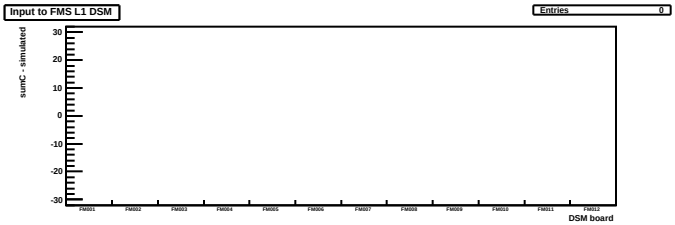

Input to FMS L0 DSM
Entries 2112144
HT ID
QT board

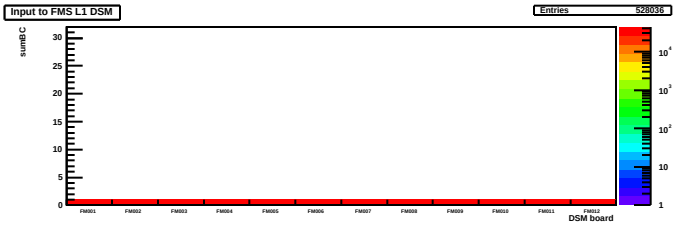

Input to FMS L0 DSM
Entries 352024
HT ID - simulated
QT board

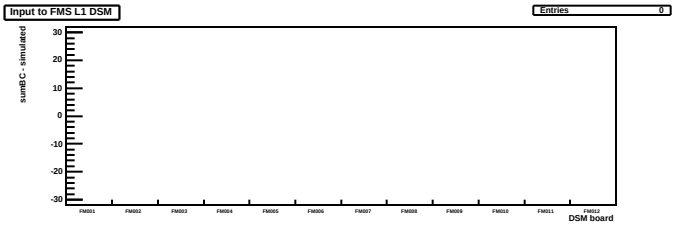

Input to FMS L1 DSM
Entries 528036
sumD
DSM board

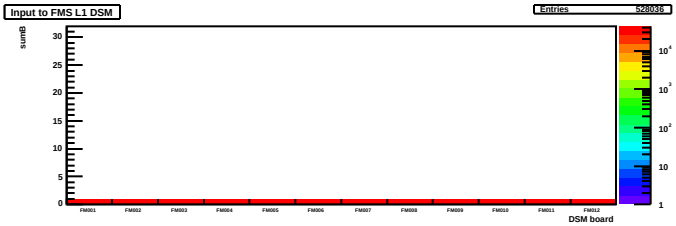

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

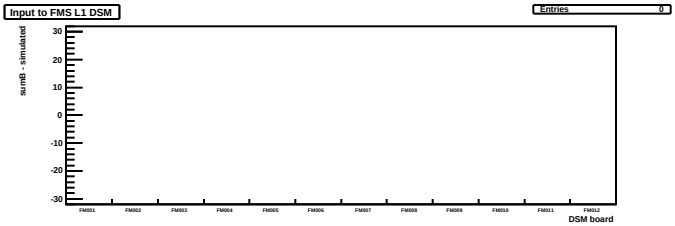

Input to FMS L1 DSM
Entries 528036
sumC
DSM board

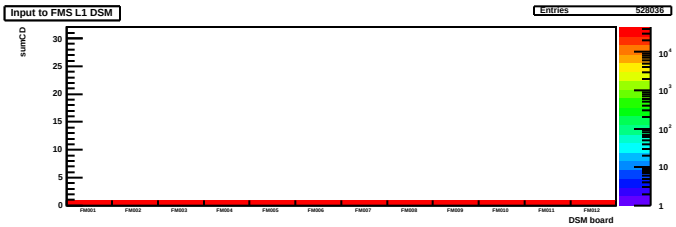

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

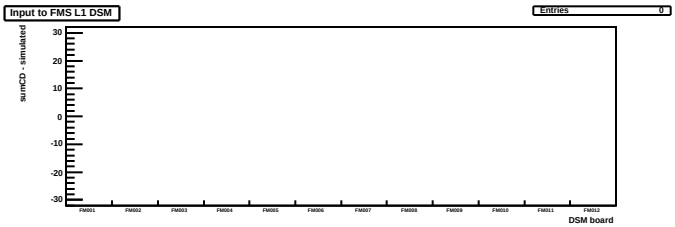

Input to FMS L1 DSM
Entries 528036
sumBC
DSM board

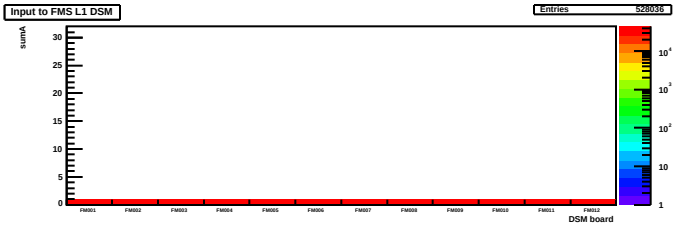

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

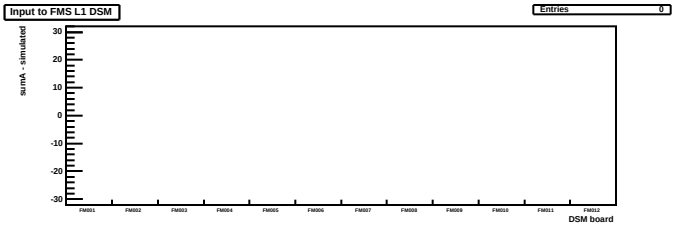

Input to FMS L1 DSM
Entries 528036
sumB
DSM board

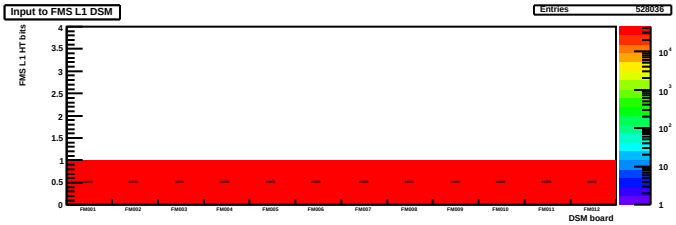

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

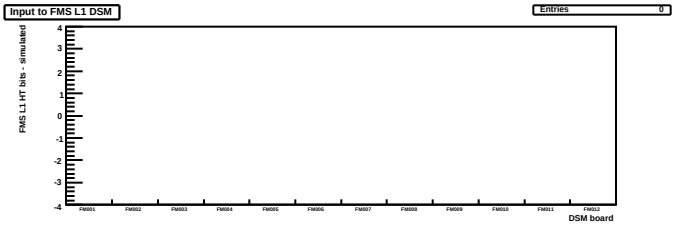

Input to FMS L1 DSM
Entries 528036
sumCD
DSM board

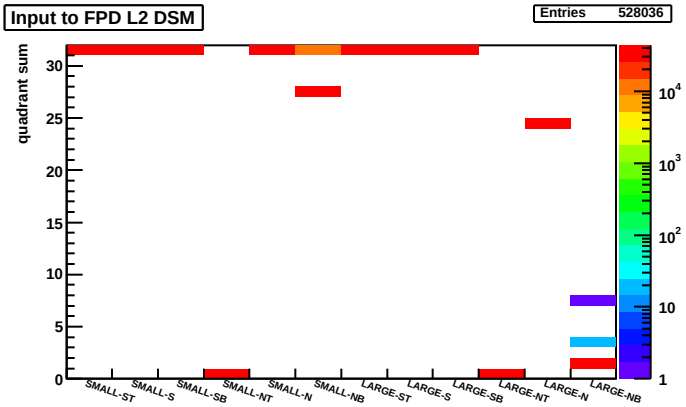

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

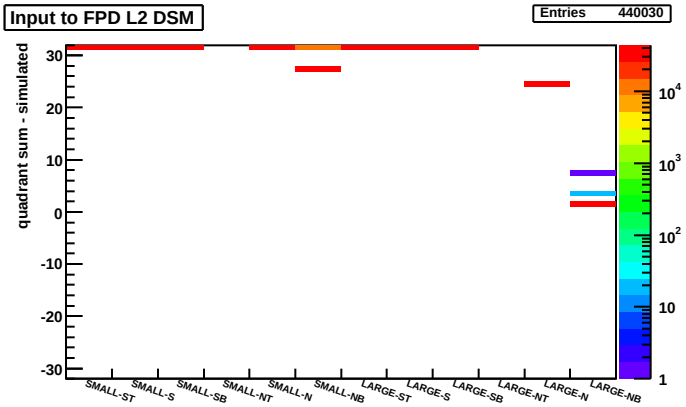

Input to FMS L1 DSM
Entries 528036
sumA
DSM board

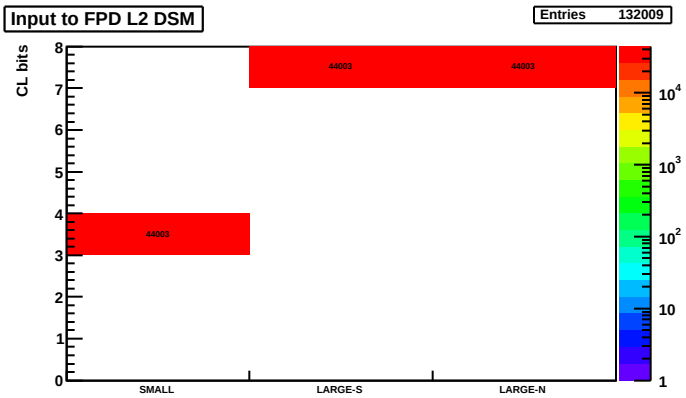

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

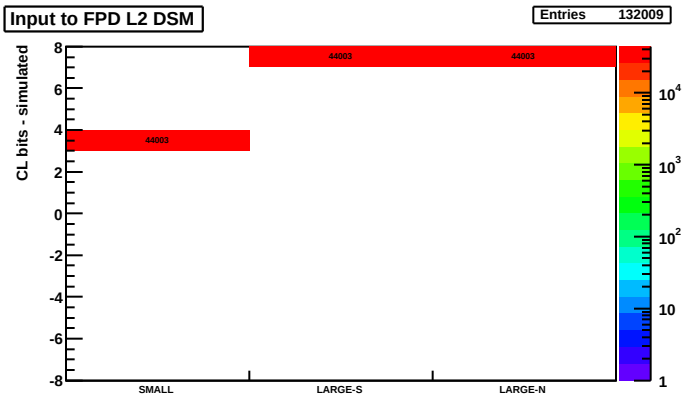

Input to FMS L1 DSM
Entries 528036
FMS L1 HT bits
DSM board

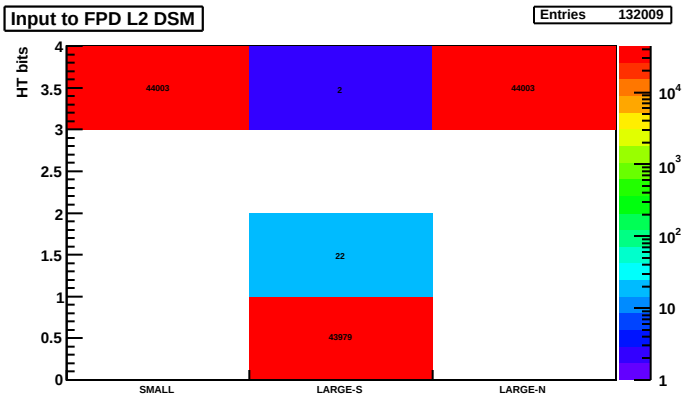

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

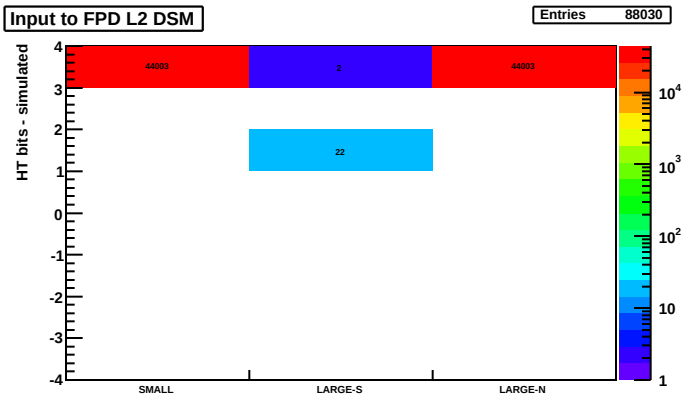

Input to FPD L2 DSM
Entries 528036
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

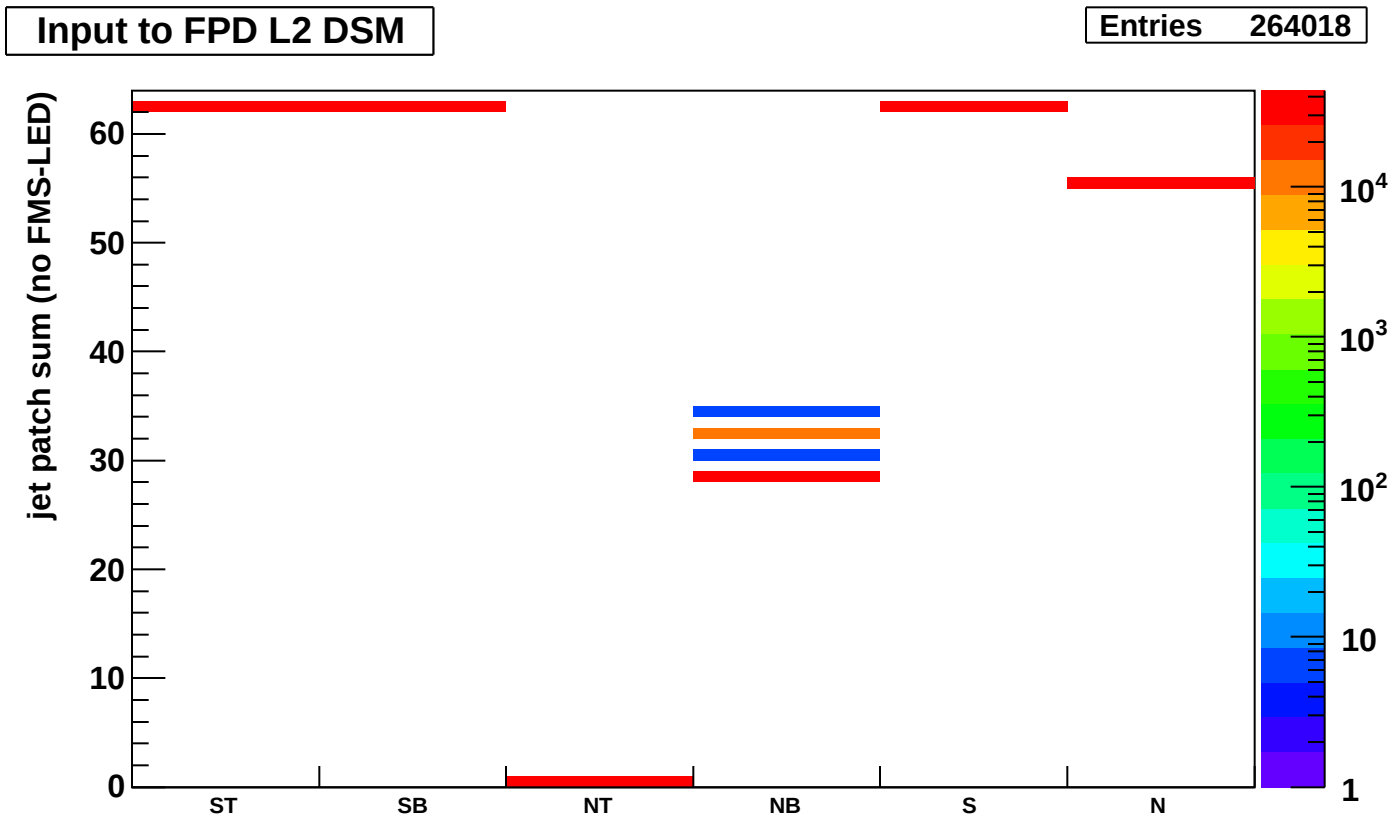

Input to FPD L2 DSM
Entries 440030
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

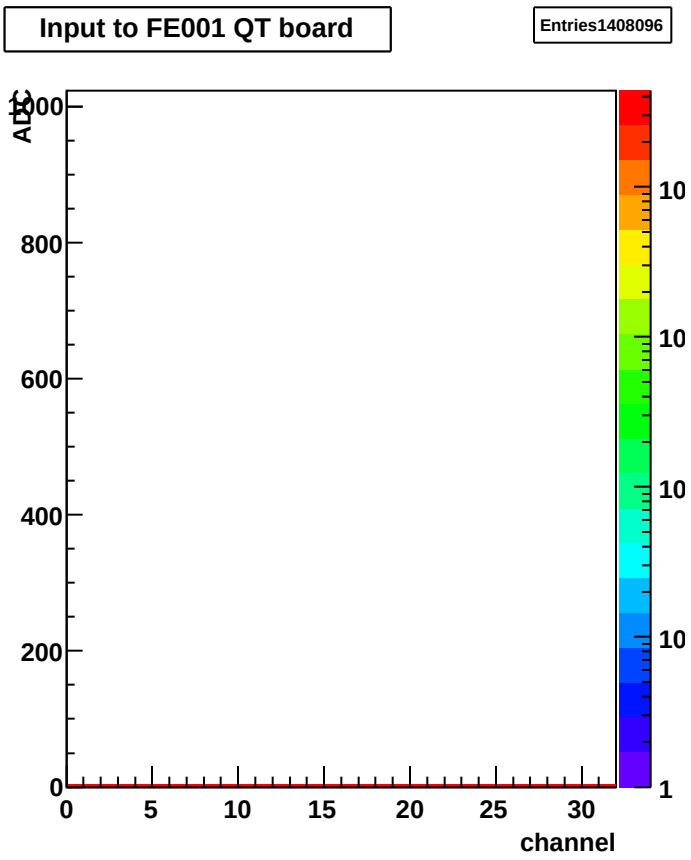

Input to FPD L2 DSM
Entries 132009
CL bits
44003
44003
44003
SMALL
LARGE-S
LARGE-N

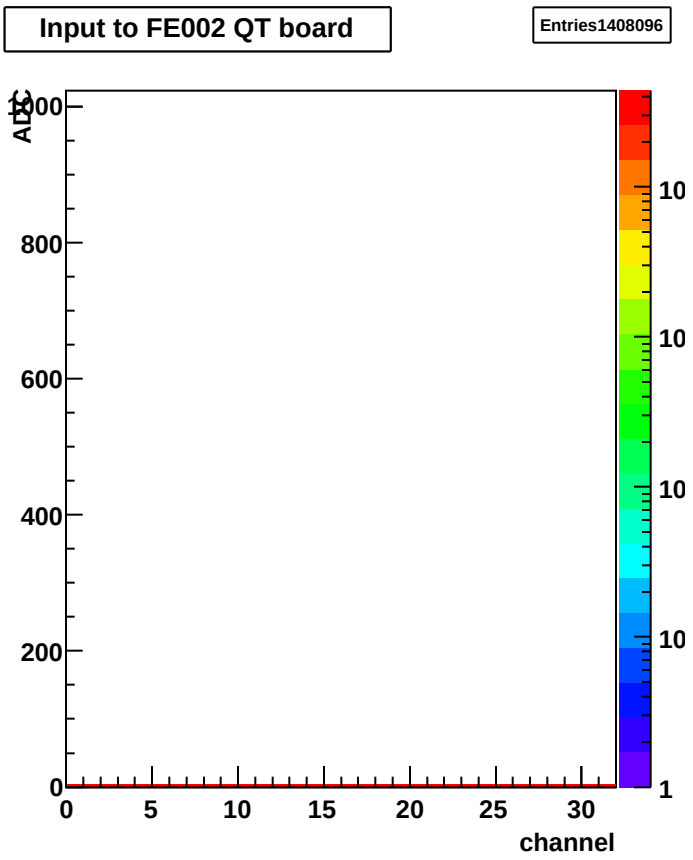

Input to FPD L2 DSM
Entries 132009
CL bits - simulated
44003
44003
44003
SMALL
LARGE-S
LARGE-N

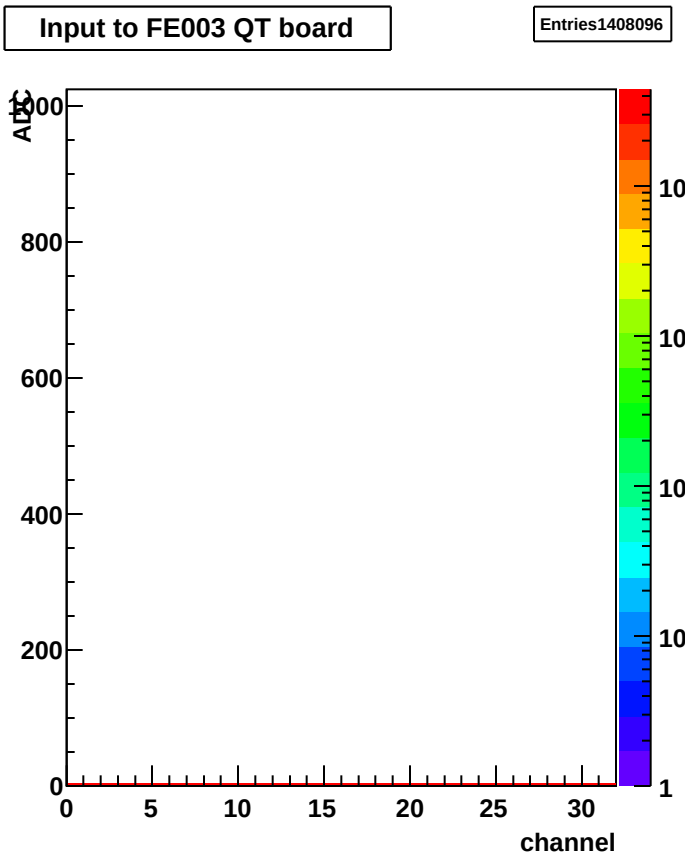

Input to FPD L2 DSM
Entries 132009
HT bits
44003
2
44003
22
43979
SMALL
LARGE-S
LARGE-N

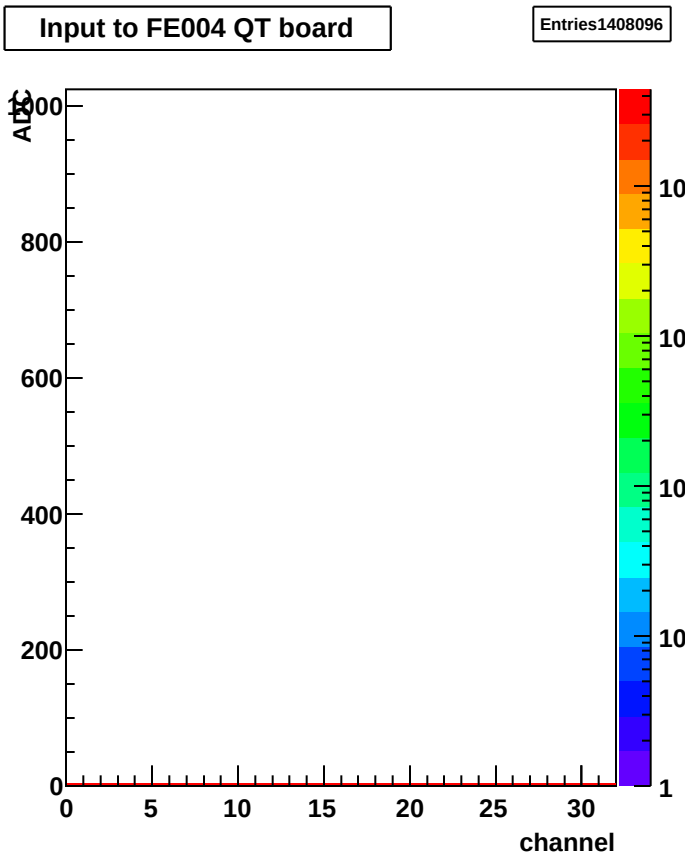

Input to FPD L2 DSM
Entries 88030
HT bits - simulated
44003
2
44003
22
SMALL
LARGE-S
LARGE-N

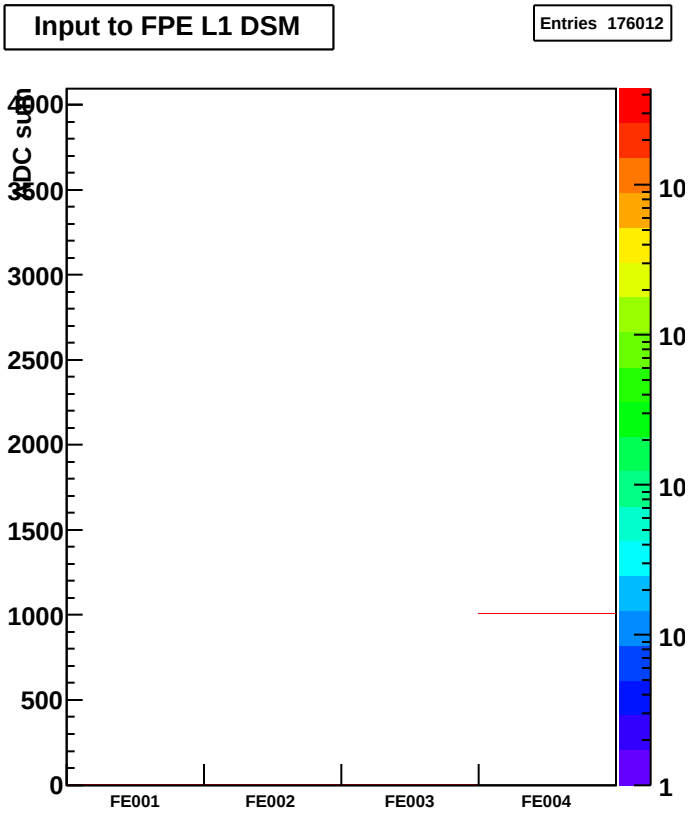

Input to FPD L2 DSM
Entries 264018
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

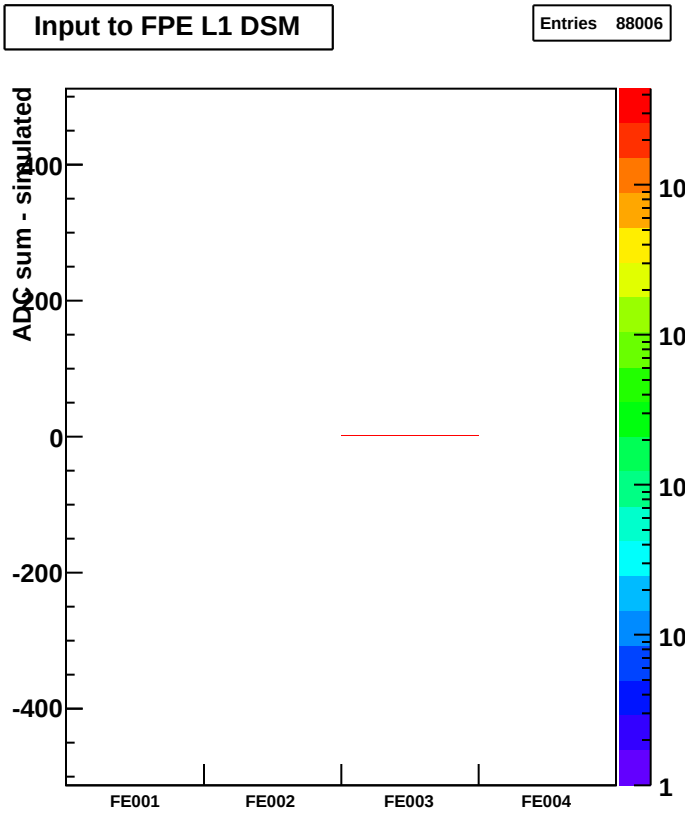

Input to FE001 QT board
Entries1408096
ADC
channel

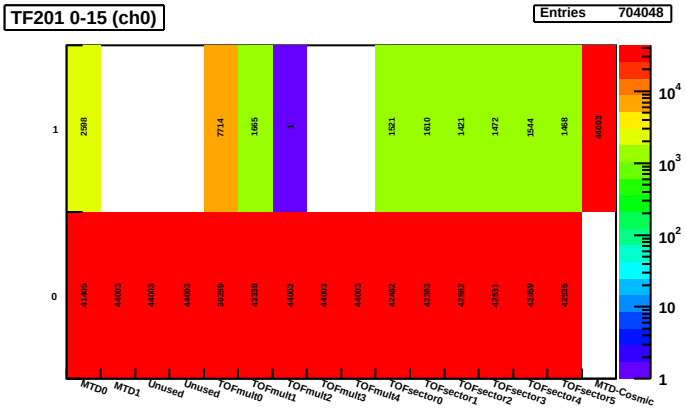

Input to FE002 QT board
Entries1408096
ADC
channel

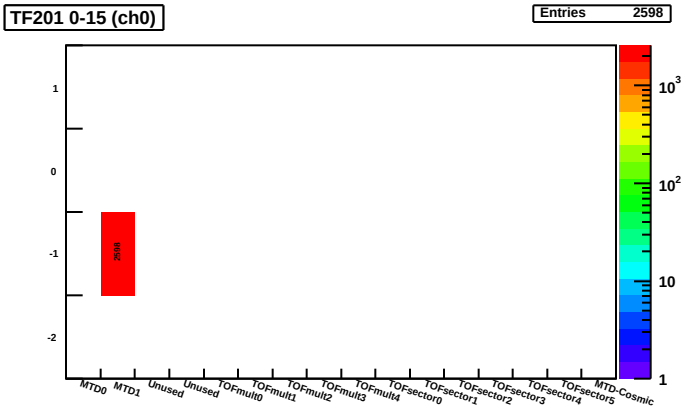

Input to FE003 QT board
Entries1408096
ADC
channel

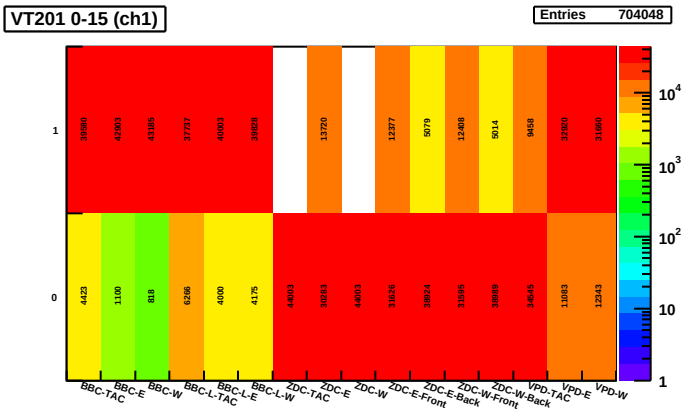

Input to FE004 QT board
Entries1408096
ADC
channel

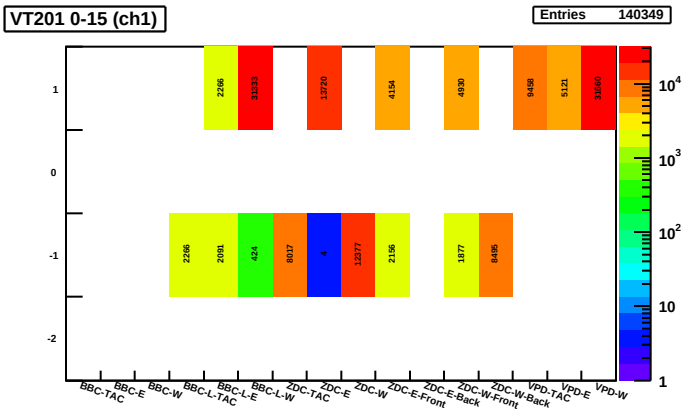

Input to FPE L1 DSM
Entries 176012
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

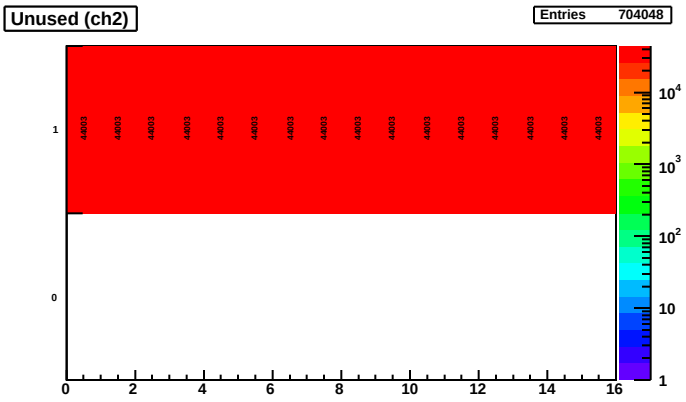

Input to FPE L1 DSM
Entries 88006
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1

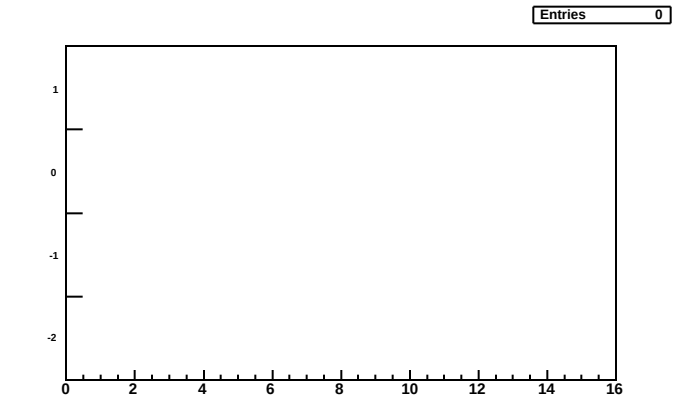

TF201 0-15 (ch0)
Entries 704048
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

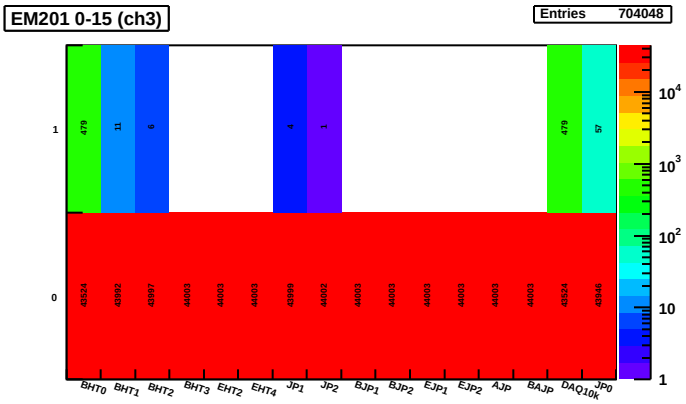

TF201 0-15 (ch0)
Entries 2598
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

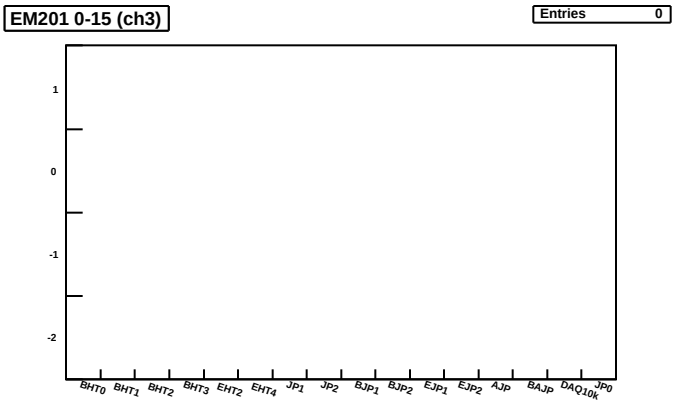

VT201 0-15 (ch1)
Entries 704048
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

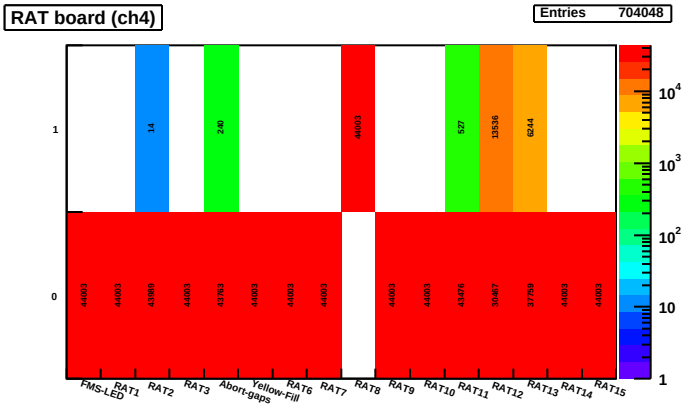

VT201 0-15 (ch1)
Entries 140349
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

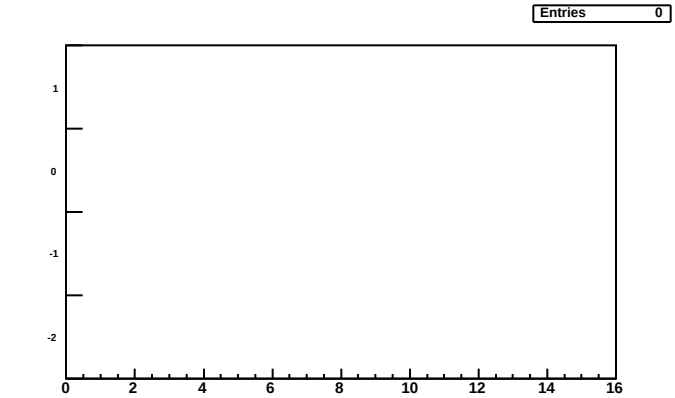

Unused (ch2)
Entries 704048

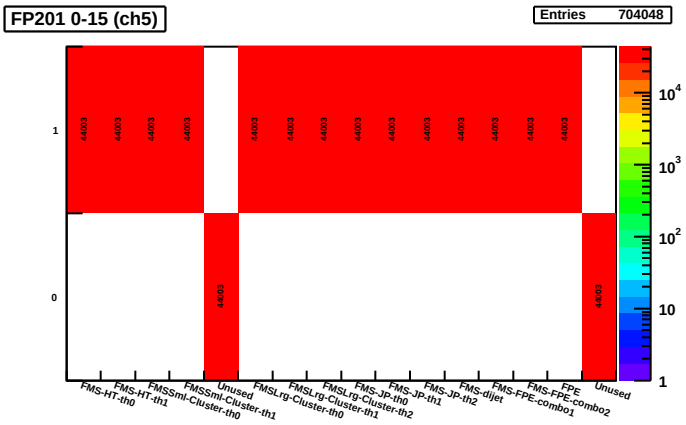

Entries 0

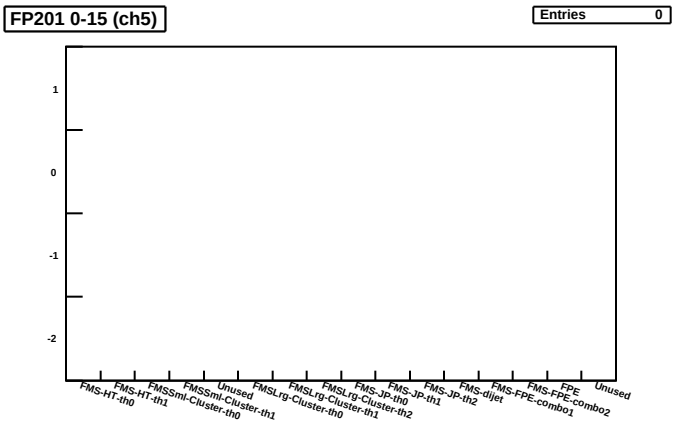

EM201 0-15 (ch3)
Entries 704048
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

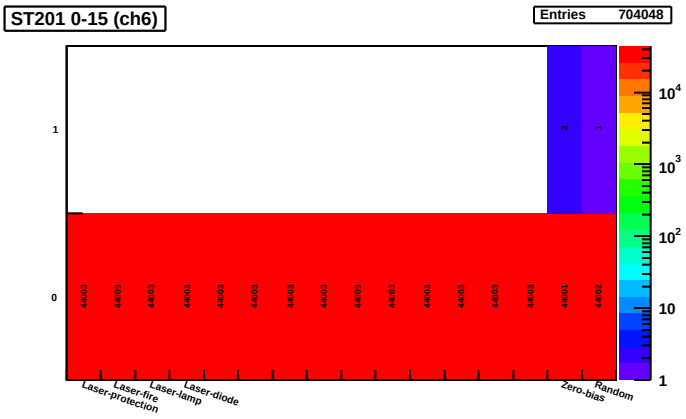

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

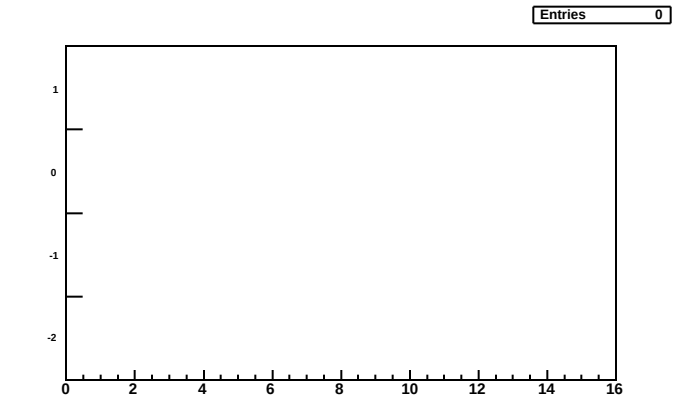

RAT board (ch4)
Entries 704048
FMS-LED
RAT1
RAT2
RAT3
Abort-gaps
Yellow-Fill
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15

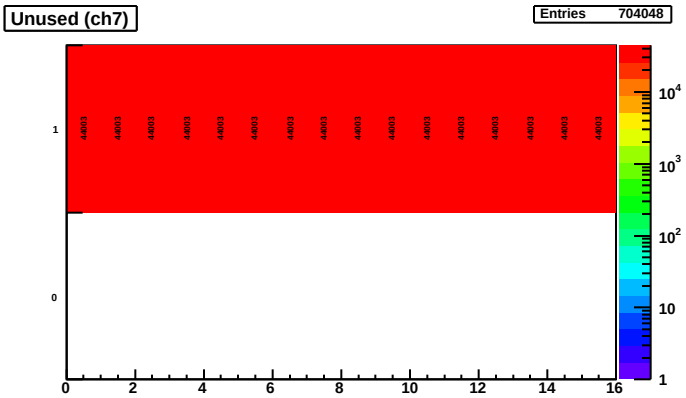

Entries 0

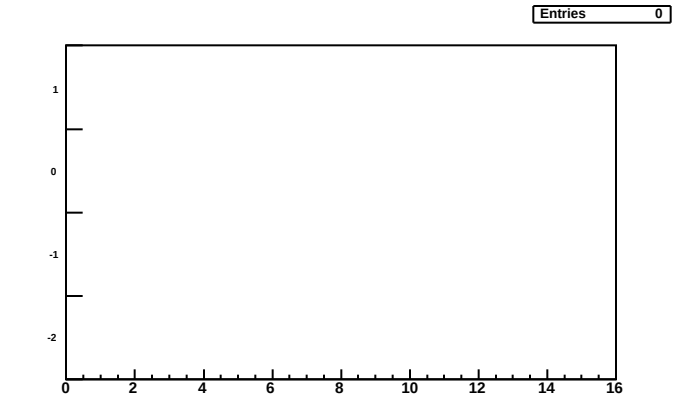

FP201 0-15 (ch5)
Entries 704048
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-dijet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused


FP201 0-15 (ch5)
Entries 0


ST201 0-15 (ch6)
Entries 704048
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random


Entries 0


Unused (ch7)
Entries 704048


Entries 0