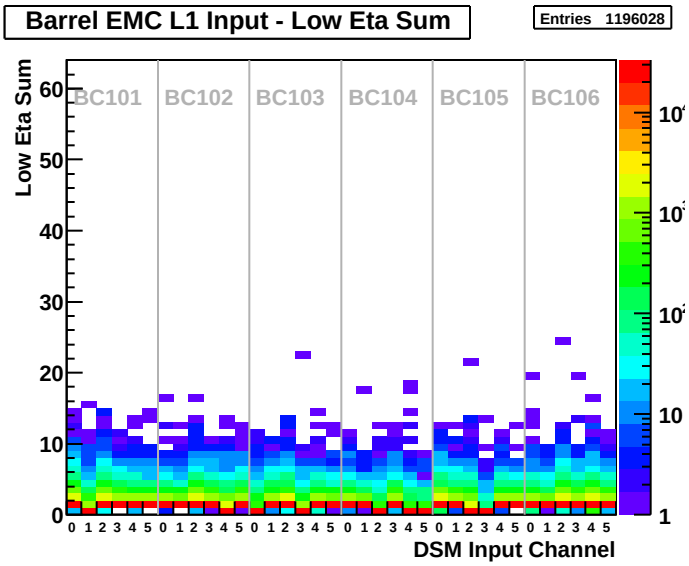
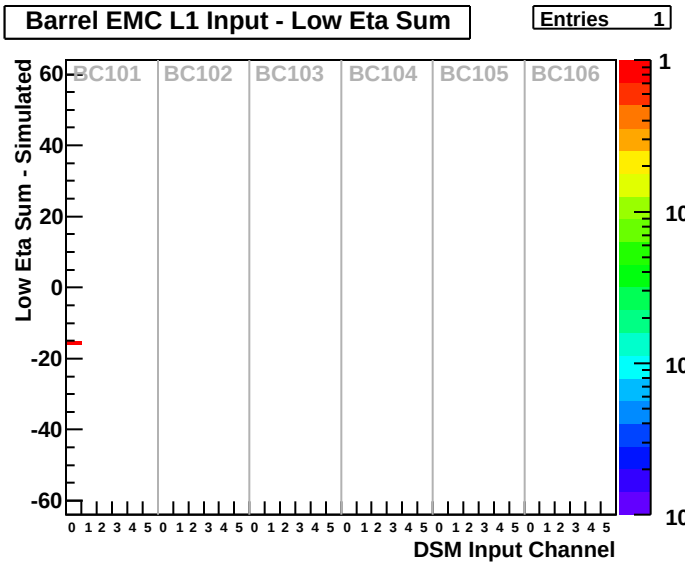
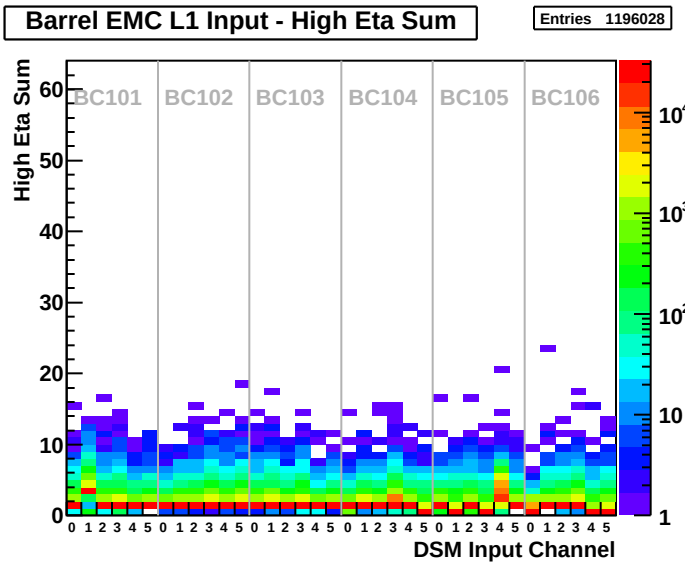
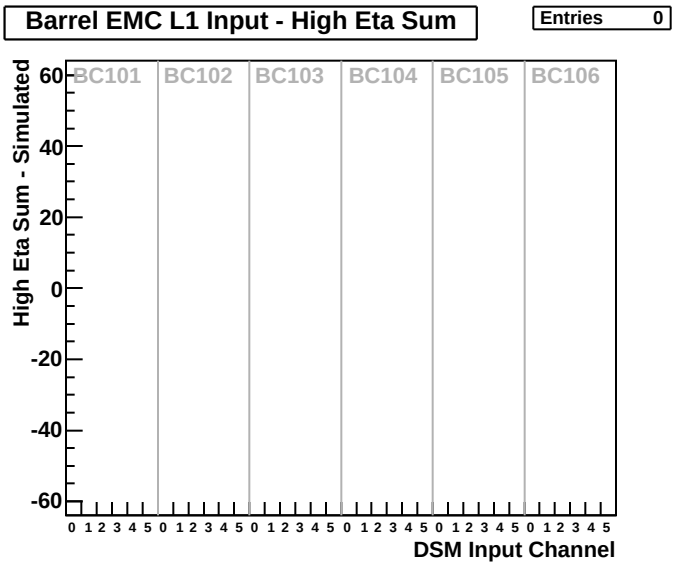
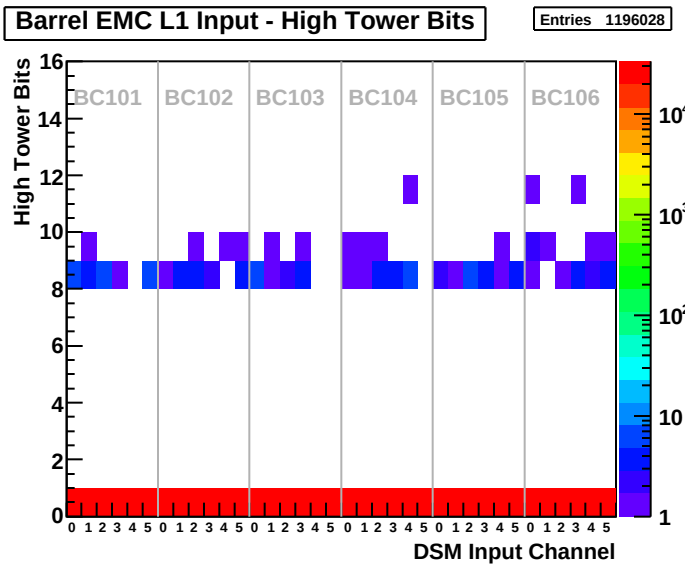
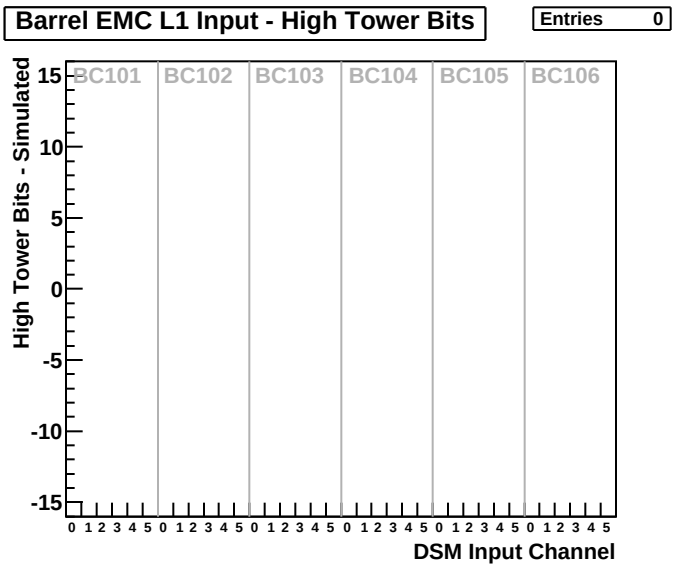

Barrel EMC L1 Input - Low Eta Sum
Entries 1196028
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

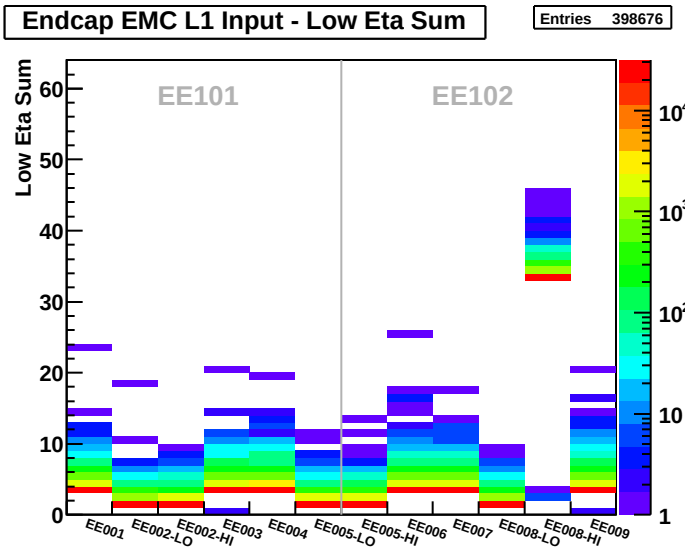

Barrel EMC L1 Input - Low Eta Sum
Entries 1
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

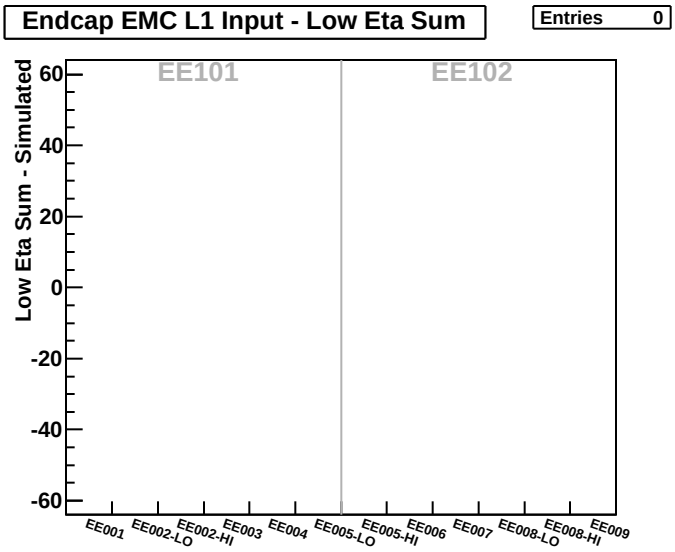

Barrel EMC L1 Input - High Eta Sum
Entries 1196028
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

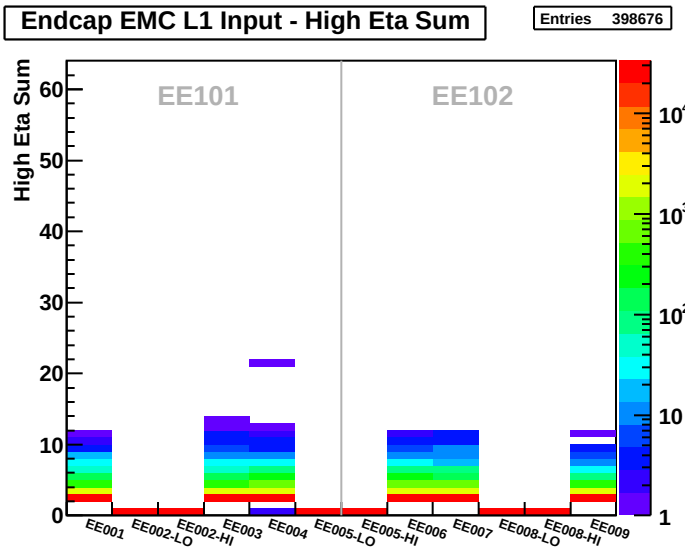

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

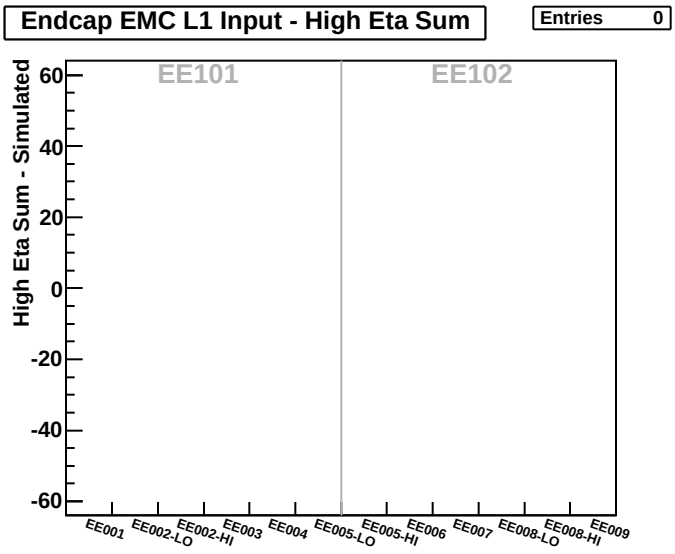

Barrel EMC L1 Input - High Tower Bits
Entries 1196028
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

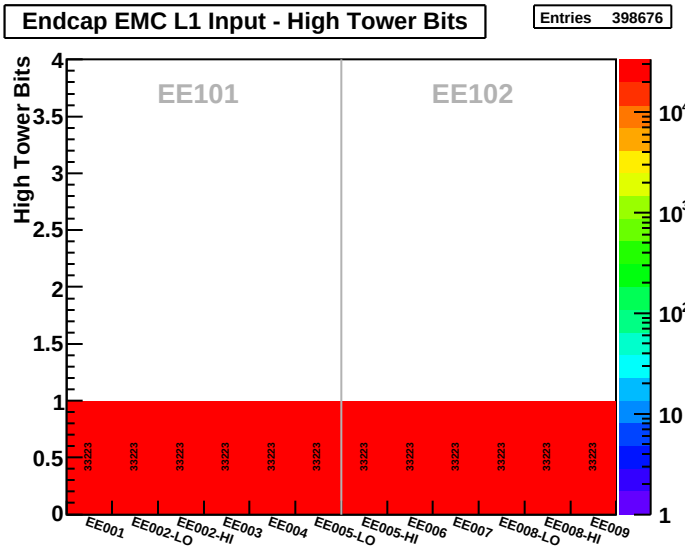

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

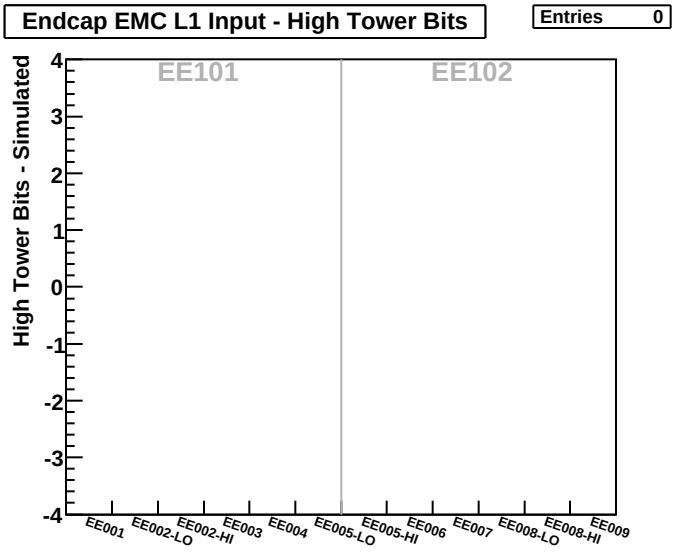

Endcap EMC L1 Input - Low Eta Sum
Entries 398676
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

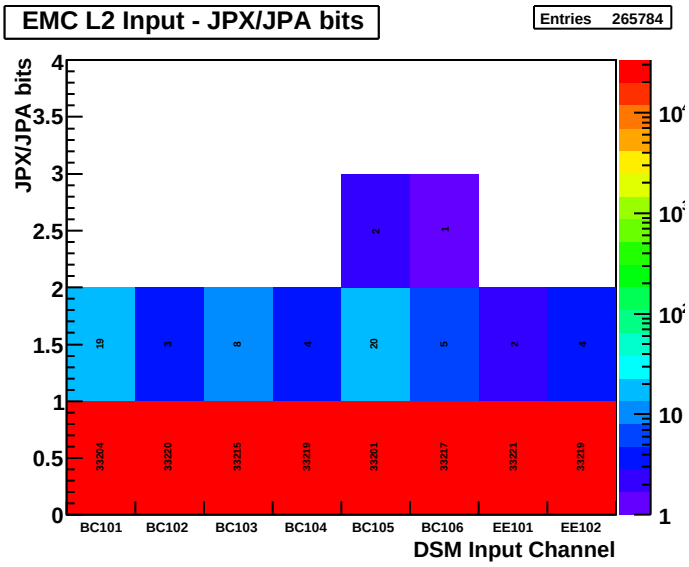

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

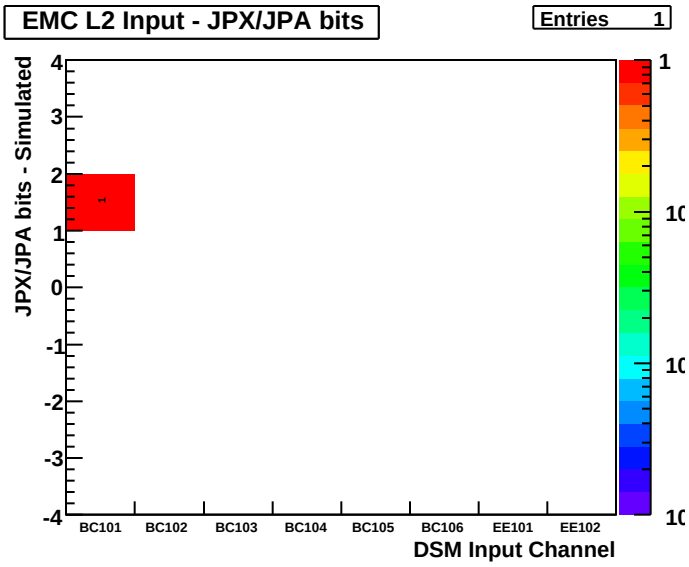

Endcap EMC L1 Input - High Eta Sum
Entries 398676
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

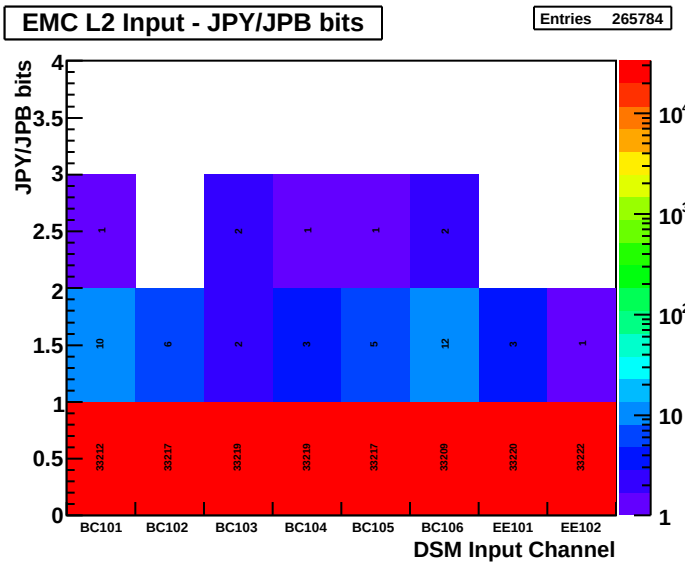

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

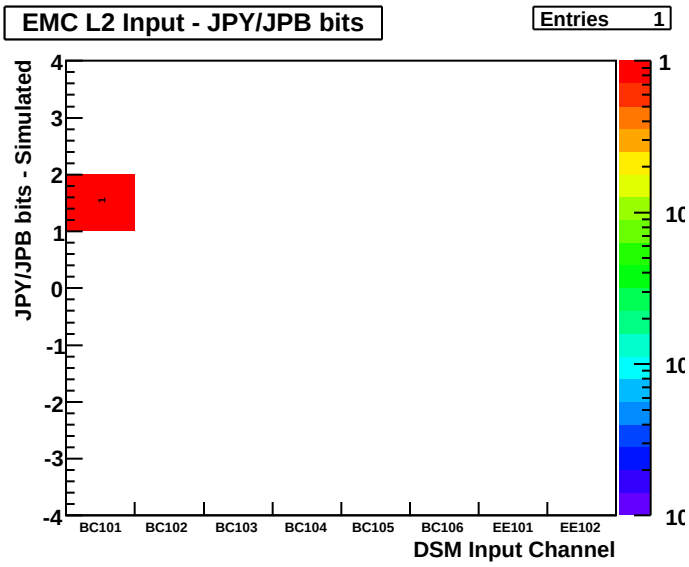

Endcap EMC L1 Input - High Tower Bits
Entries 398676
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

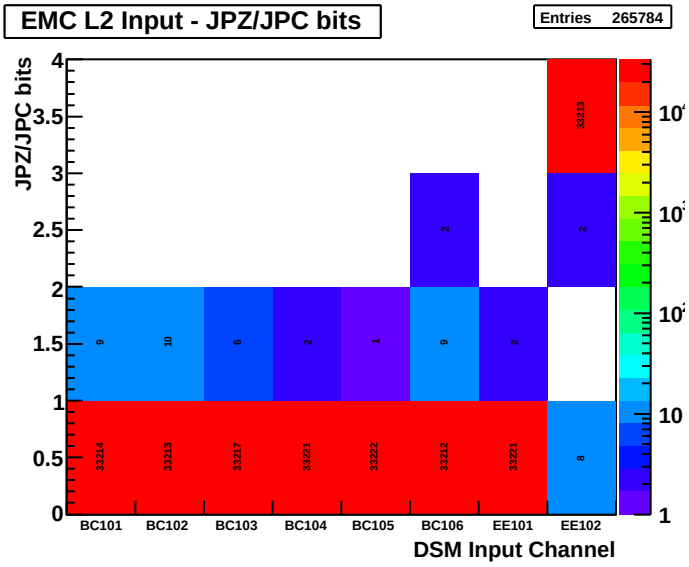

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

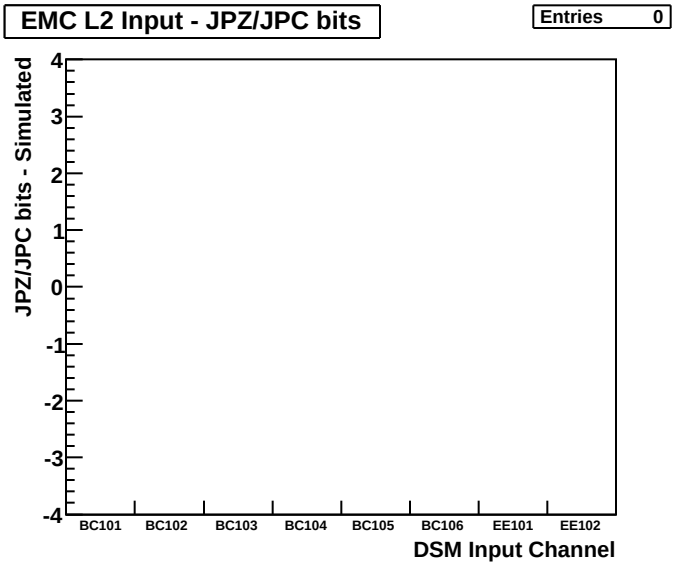

EMC L2 Input - JPX/JPA bits
Entries 265784
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

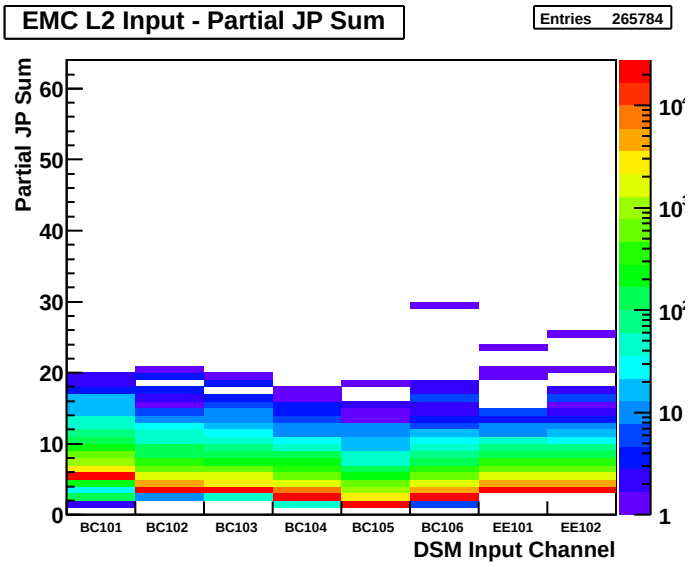

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

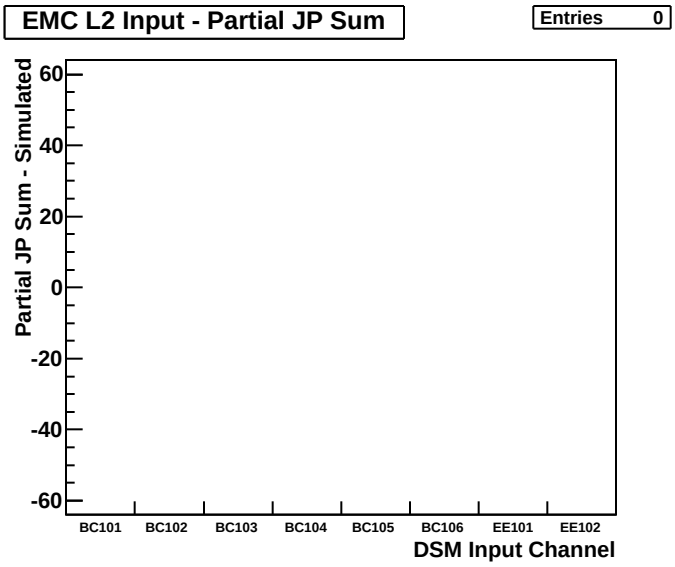

EMC L2 Input - JPY/JPB bits
Entries 265784
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

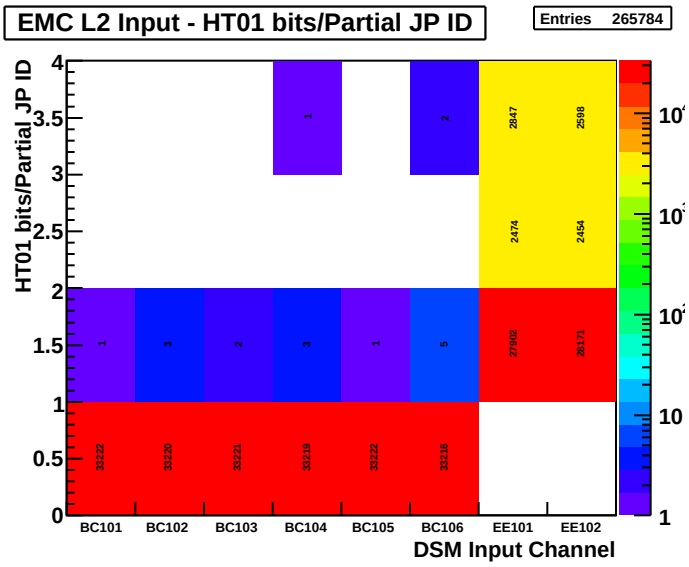

EMC L2 Input - JPY/JPB bits
Entries 1
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

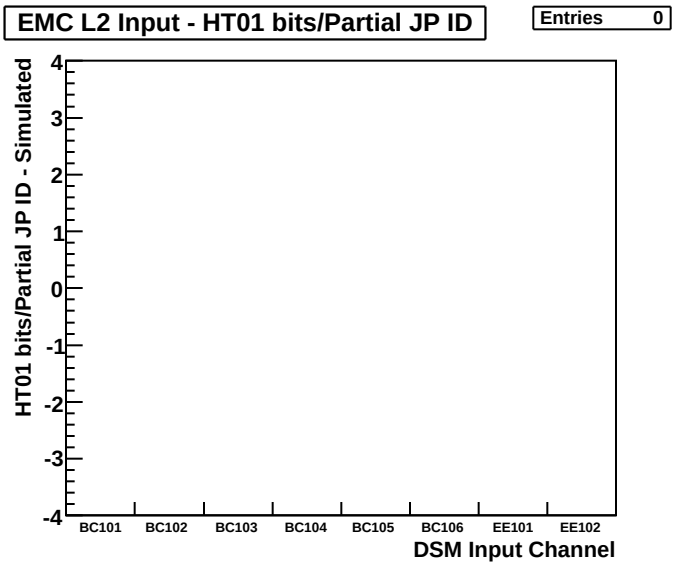

EMC L2 Input - JPZ/JPC bits
Entries 265784
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

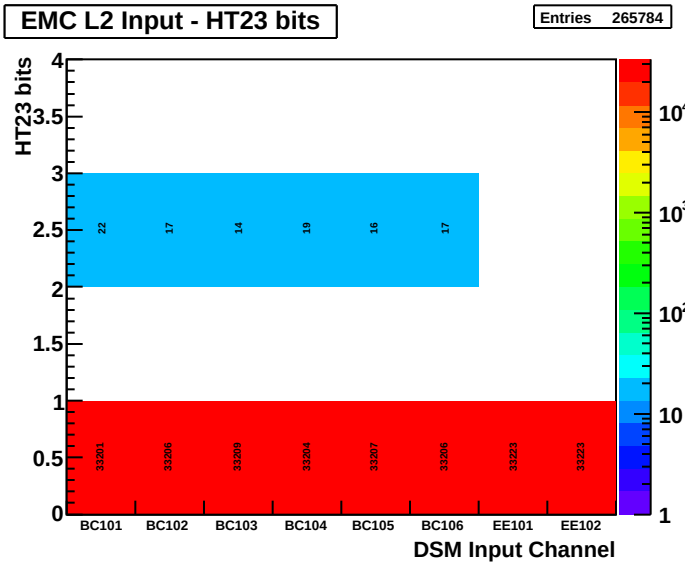

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

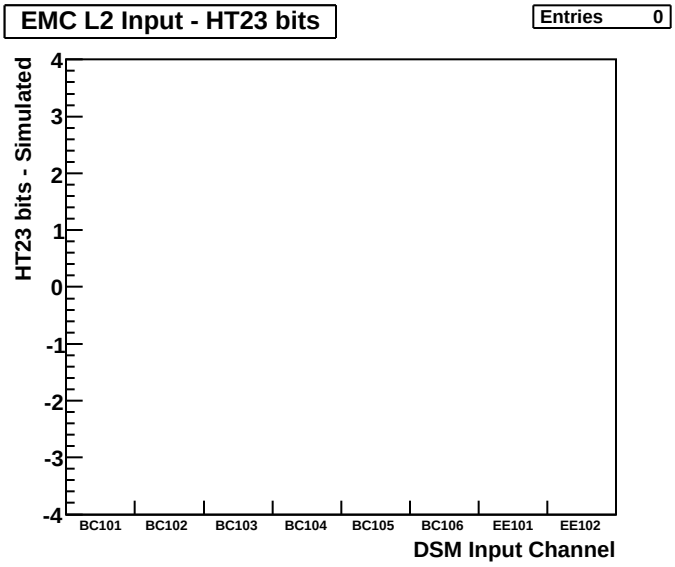

EMC L2 Input - Partial JP Sum
Entries 265784
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

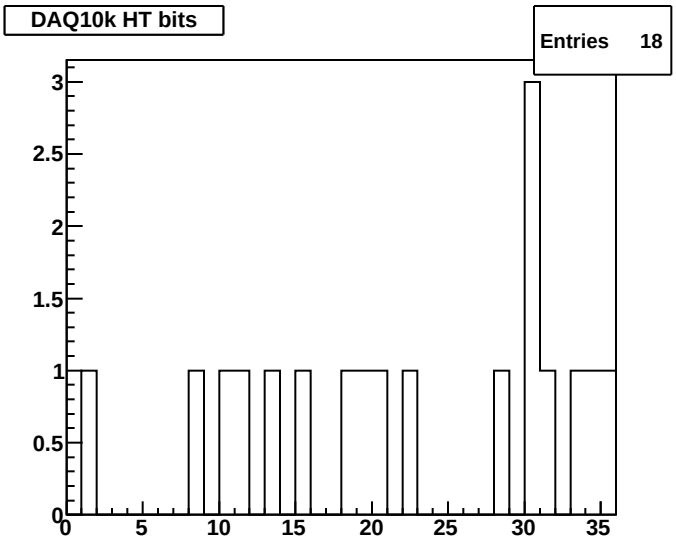

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

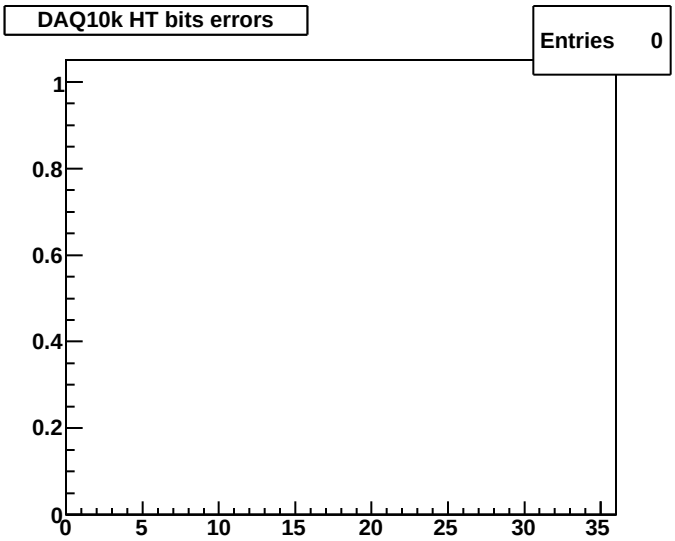

EMC L2 Input - HT01 bits/Partial JP ID
Entries 265784
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

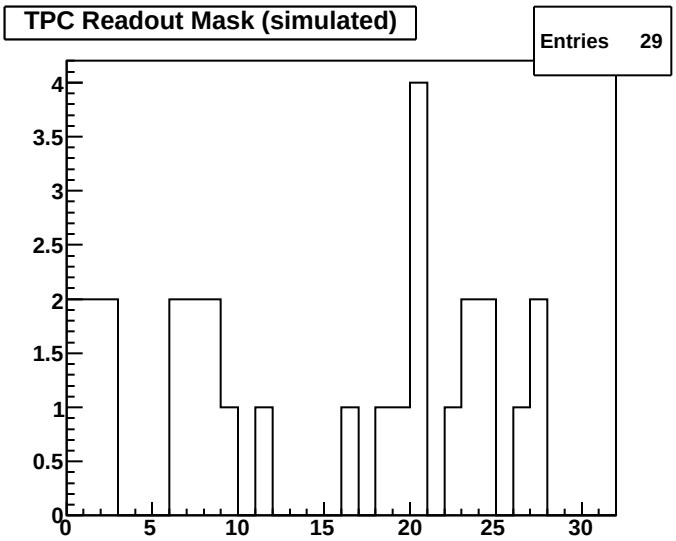

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

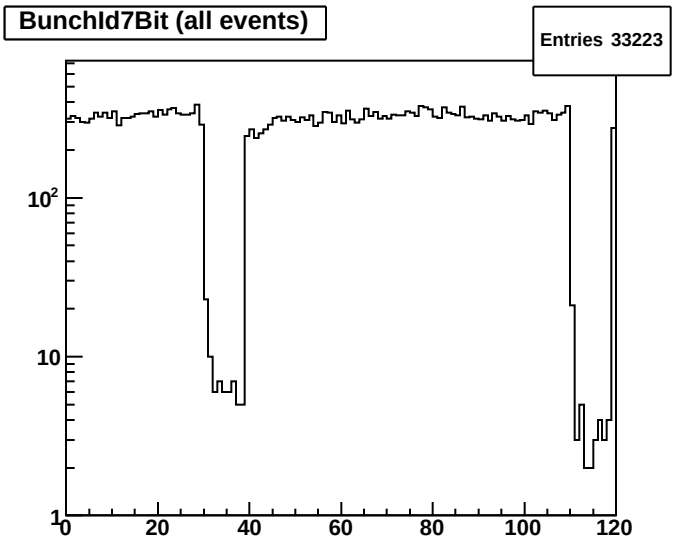

EMC L2 Input - HT23 bits
Entries 265784
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

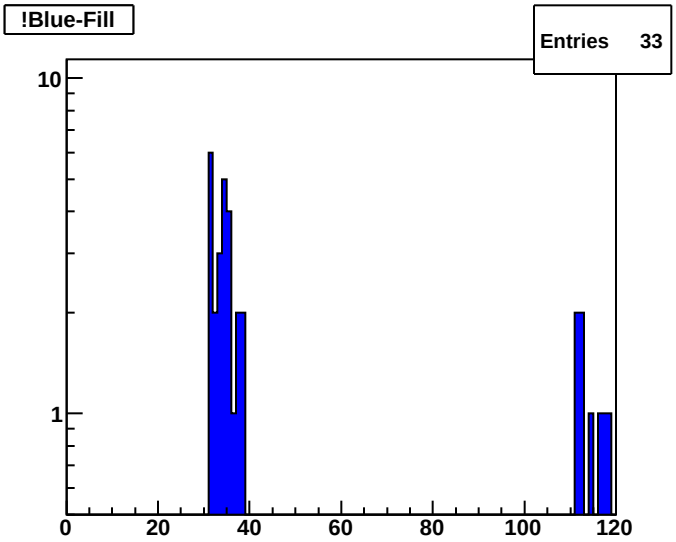

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

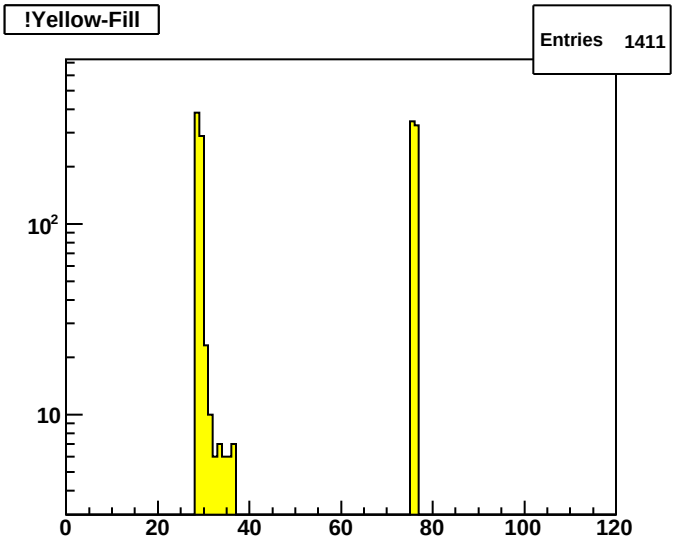

DAQ10k HT bits
Entries 18

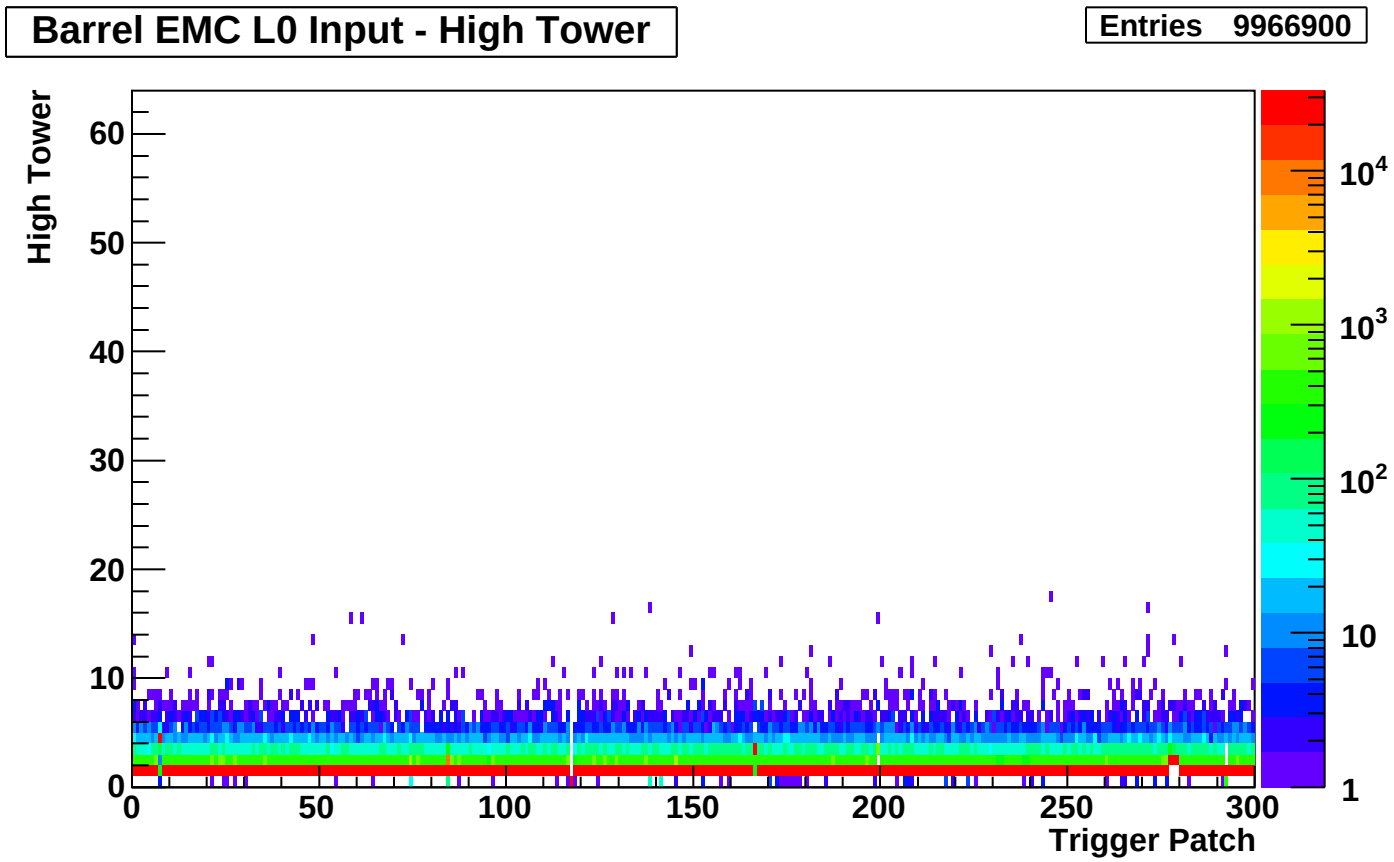

DAQ10k HT bits errors
Entries 0

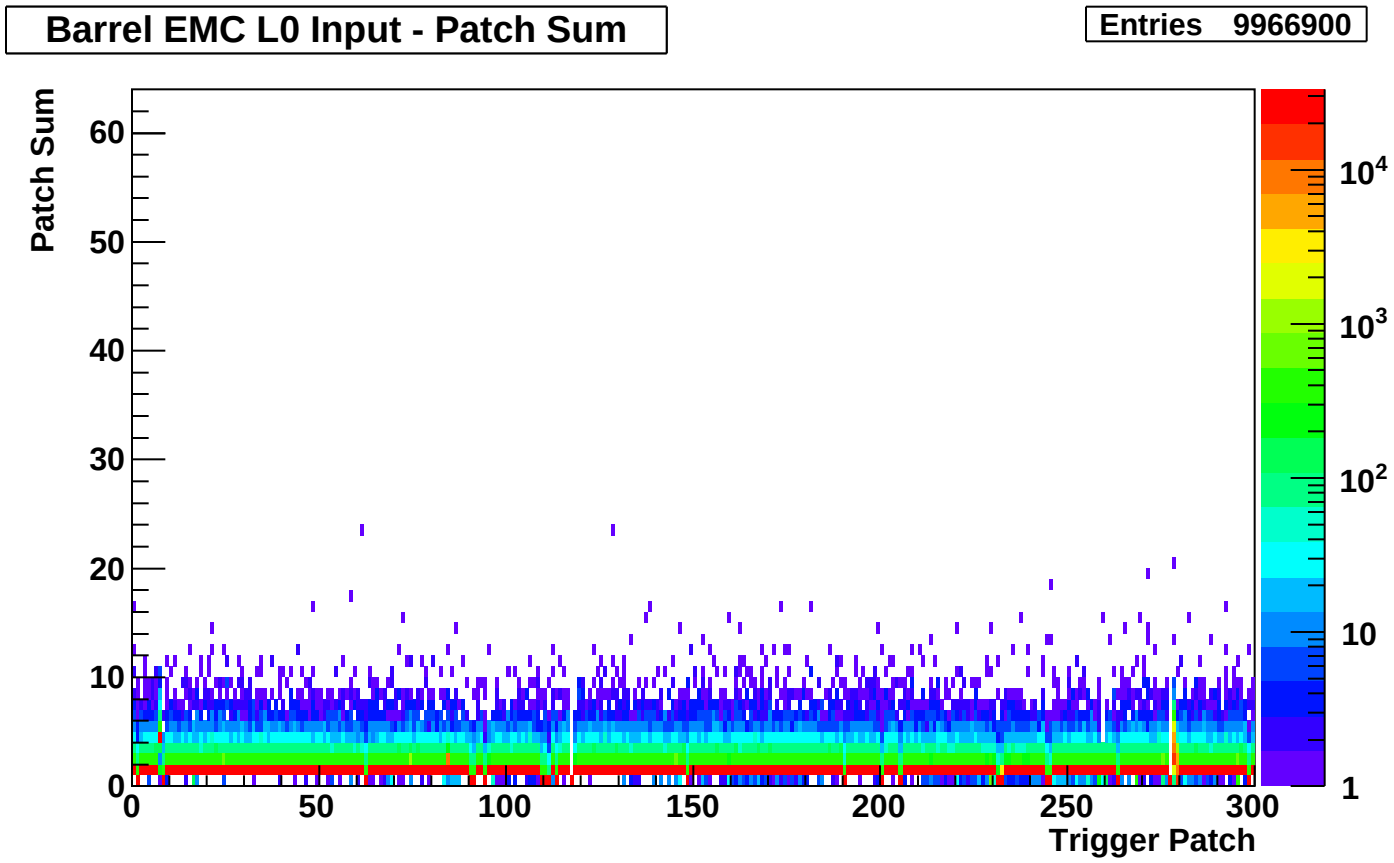

TPC Readout Mask (simulated)
Entries 29

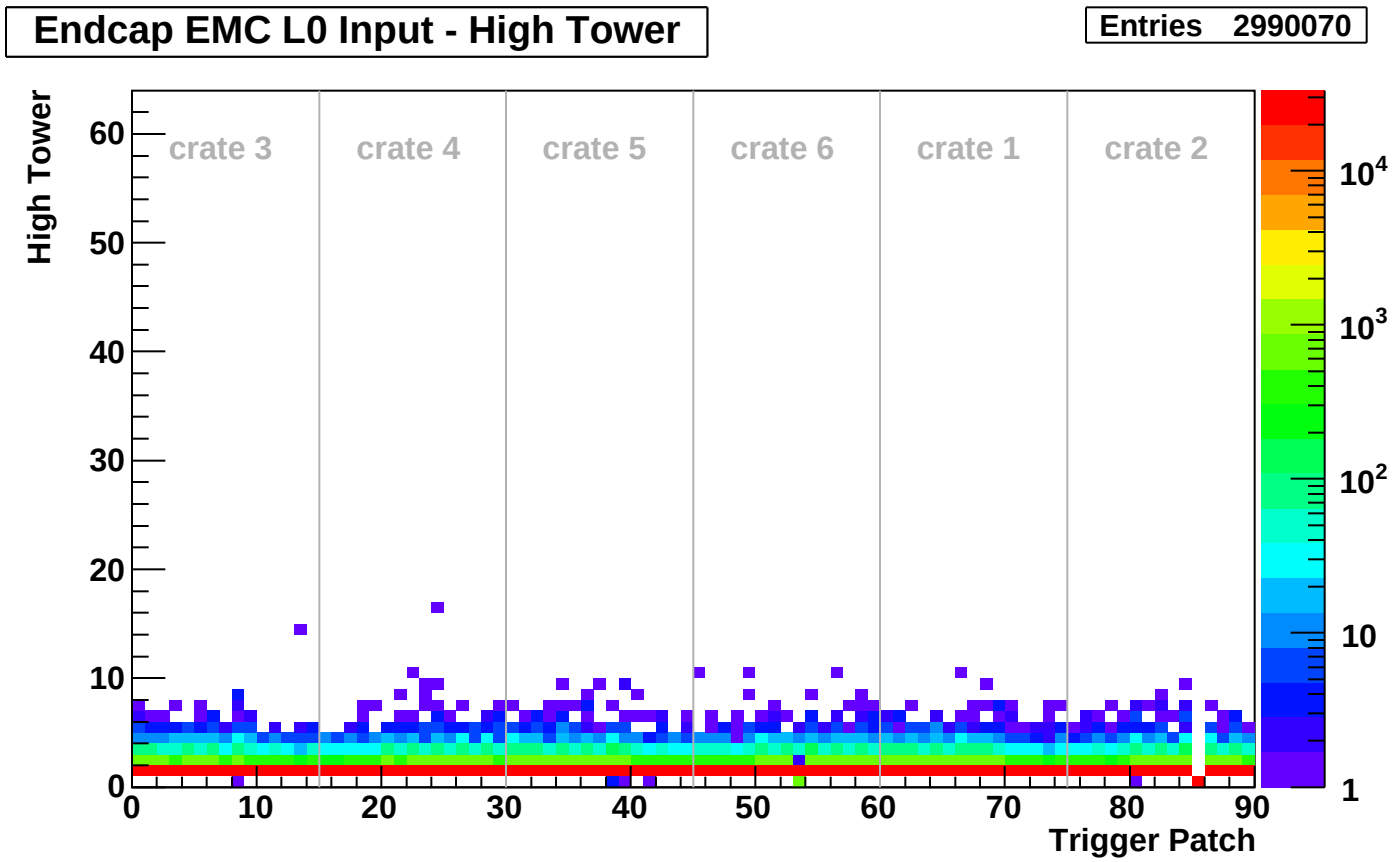

BunchId7Bit (all events)
Entries 33223

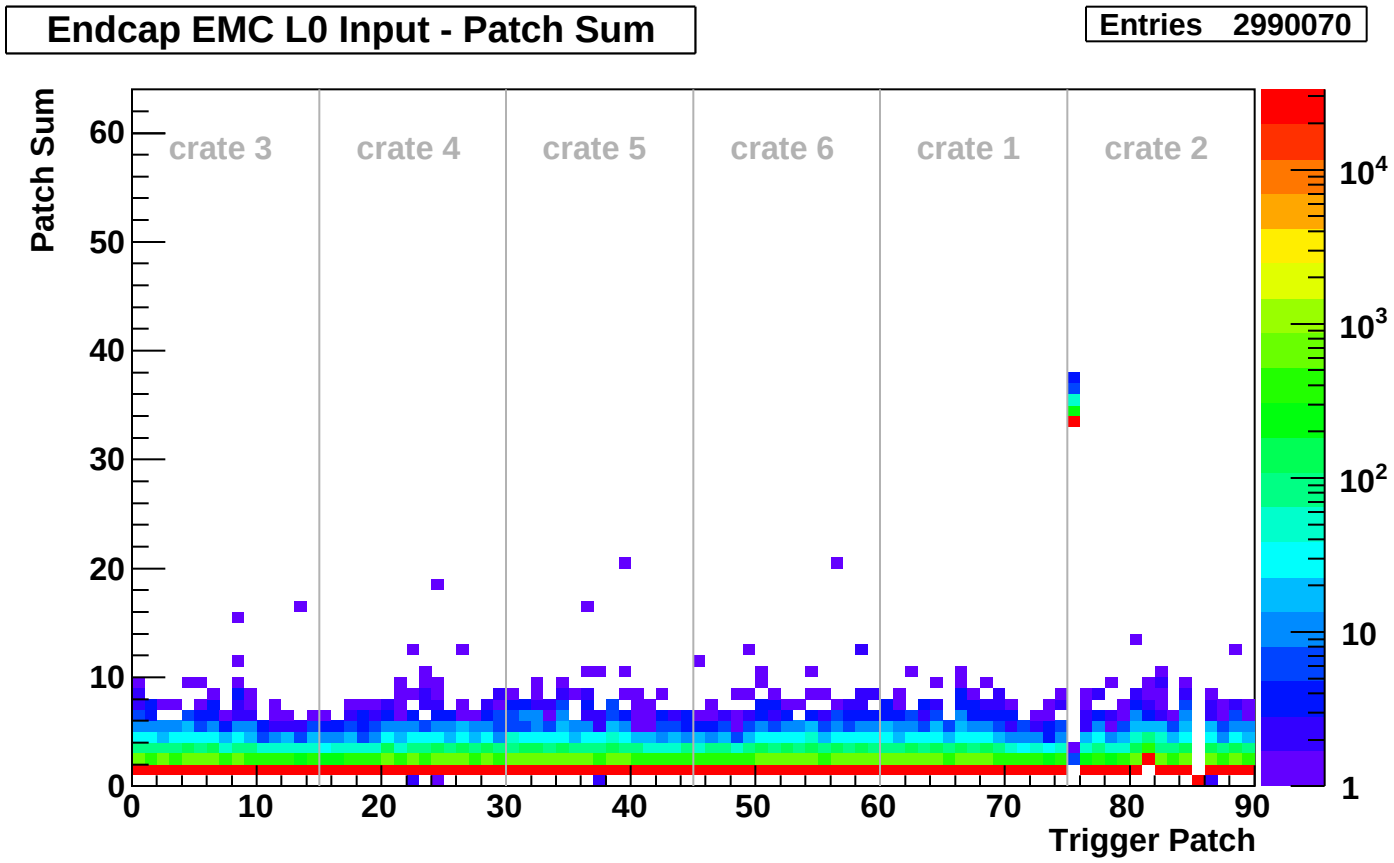

!Blue-Fill
Entries 33

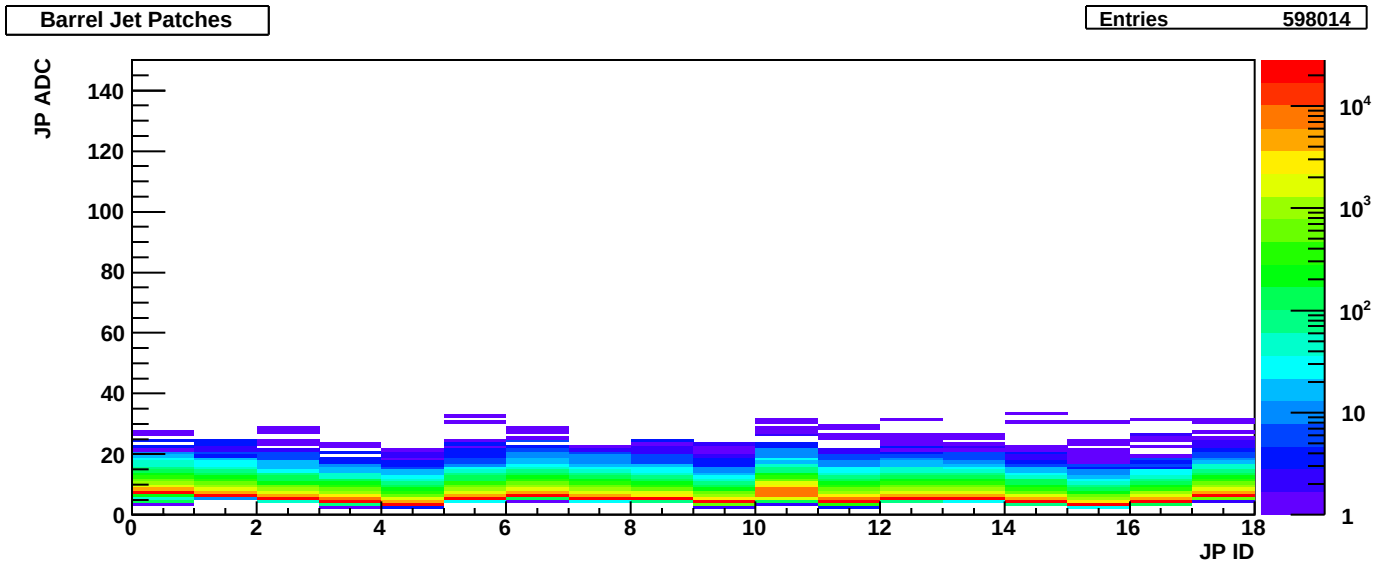

!Yellow-Fill
Entries 1411

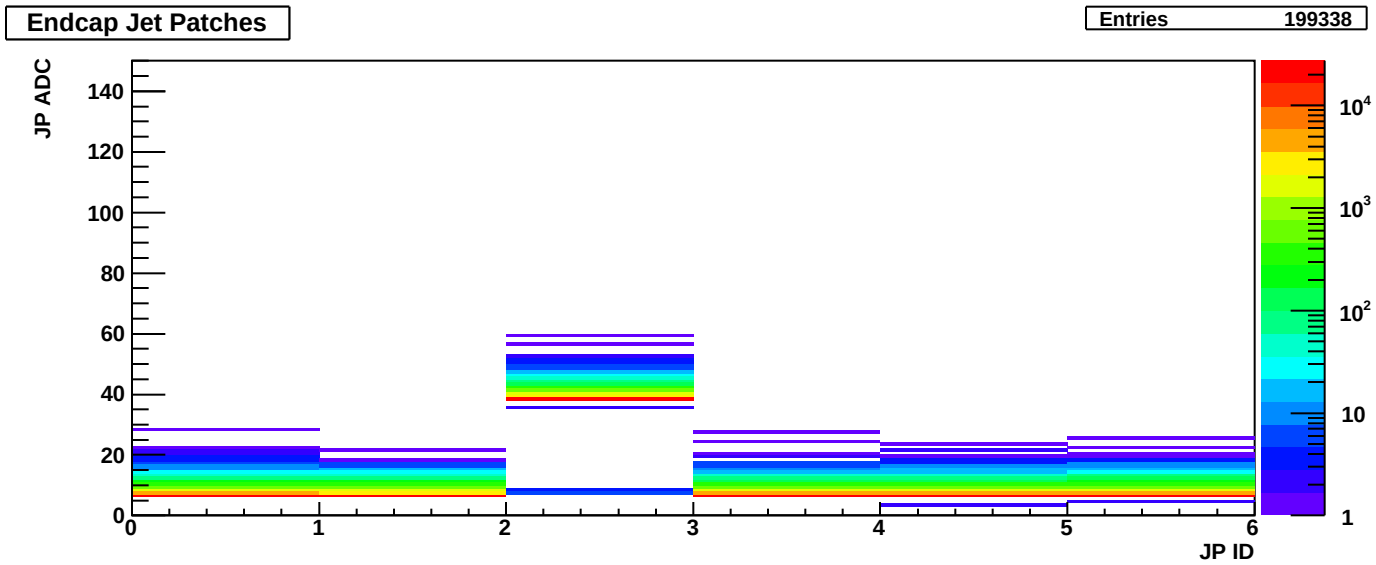

Barrel EMC L0 Input - High Tower
Entries 9966900
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

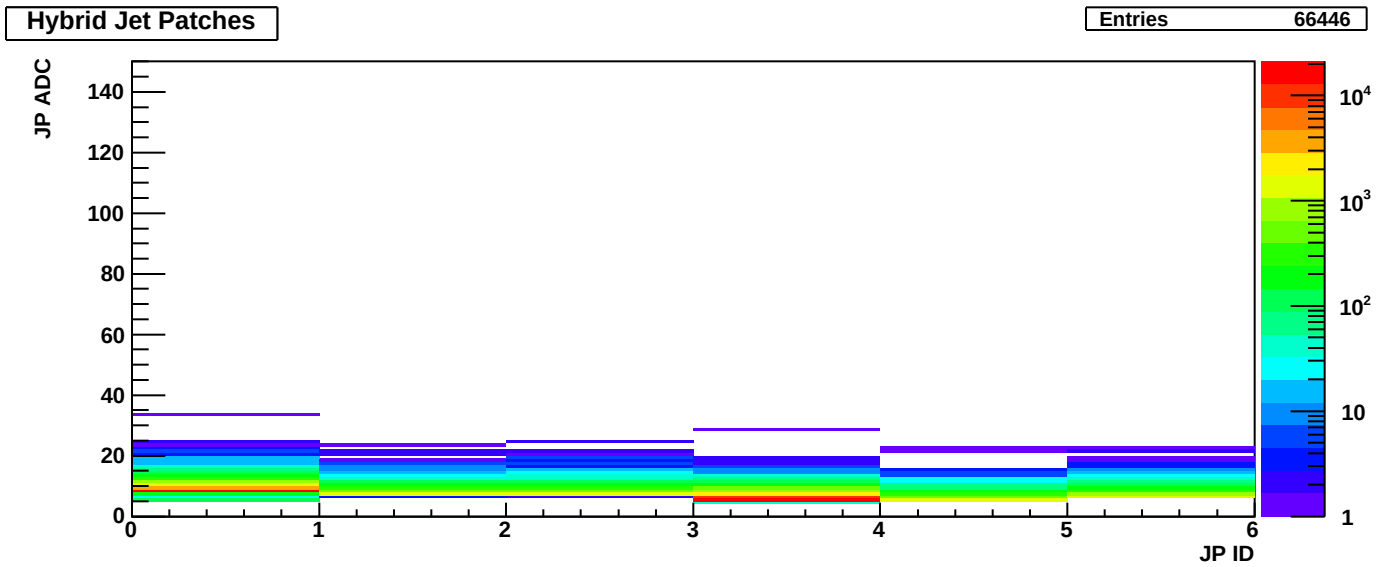

Barrel EMC L0 Input - Patch Sum
Entries 9966900
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

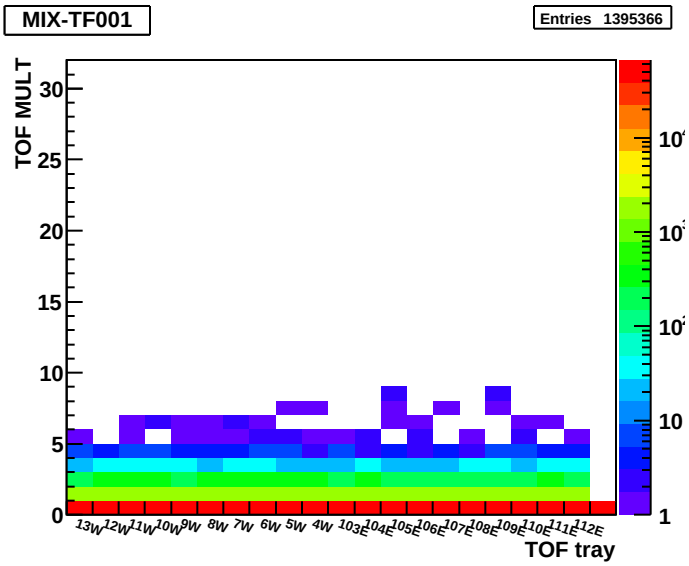

Endcap EMC L0 Input - High Tower
Entries 2990070
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

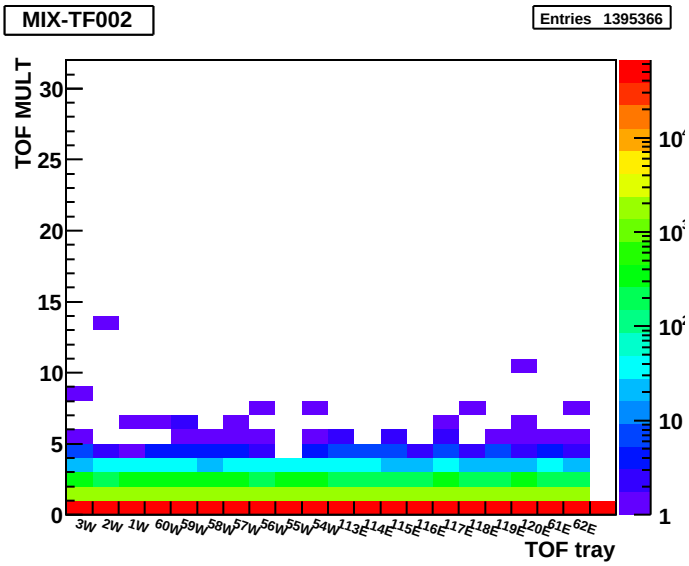

Endcap EMC L0 Input - Patch Sum
Entries 2990070
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

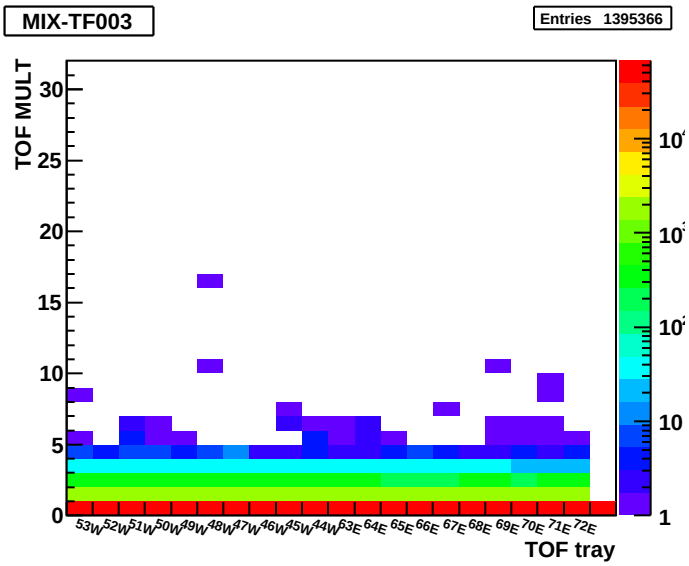

Barrel Jet Patches
Entries 598014
JP ADC
JP ID

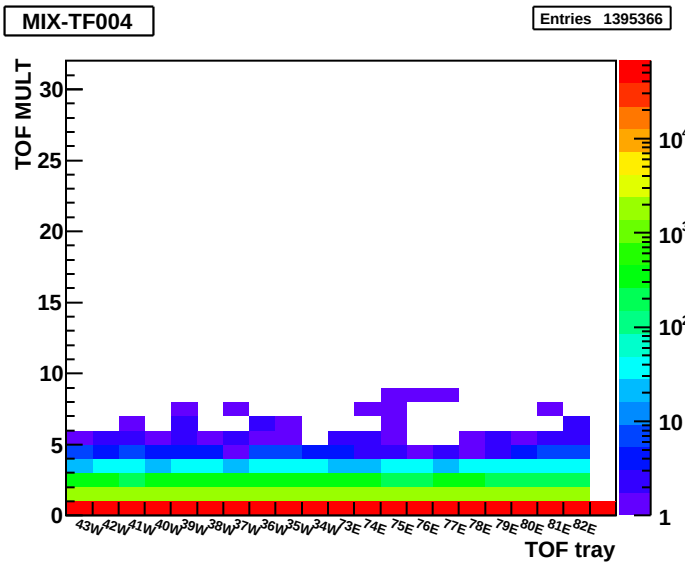

Endcap Jet Patches
Entries 199338
JP ADC
JP ID

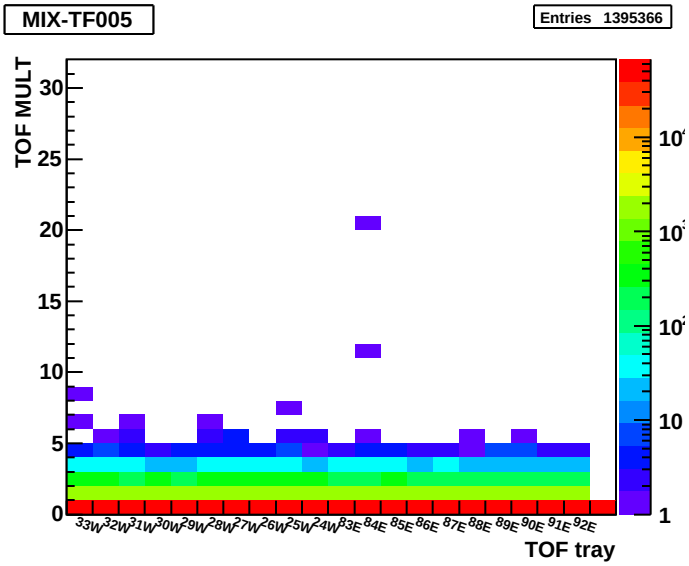

Hybrid Jet Patches
Entries 66446
JP ADC
JP ID

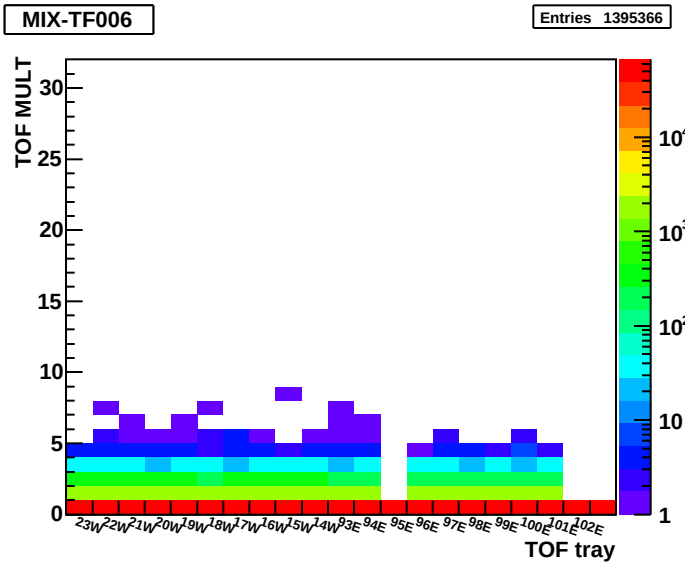

MIX-TF001
Entries 1395366
TOF MULT
TOF tray

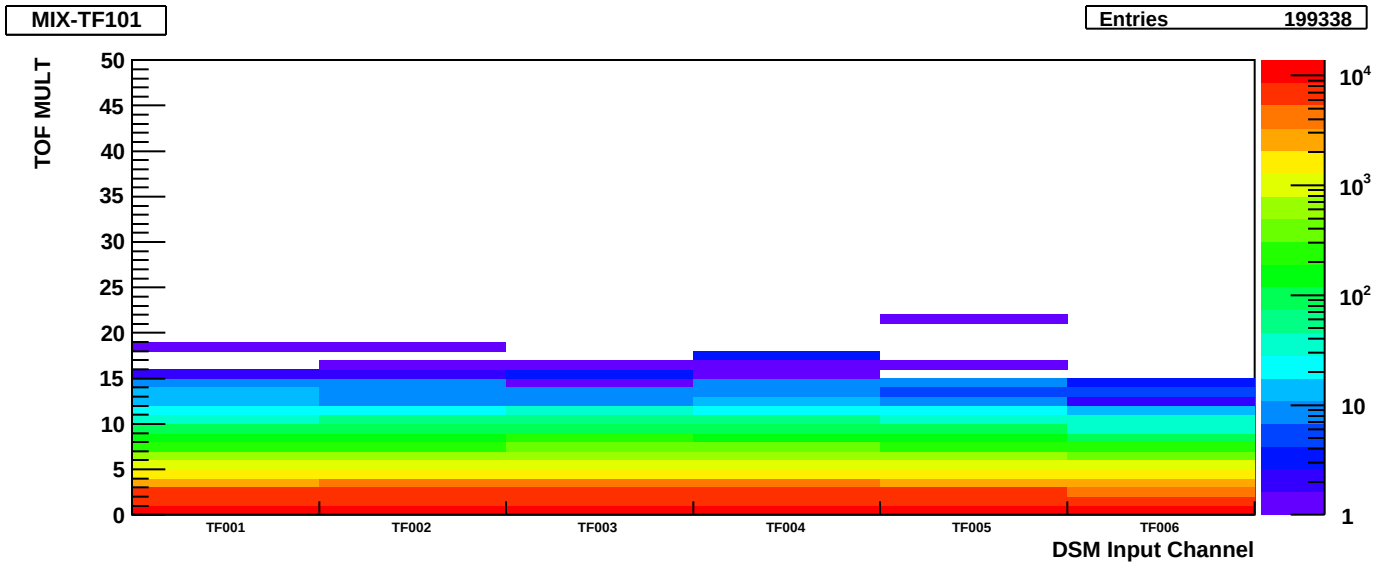

MIX-TF002
Entries 1395366
TOF MULT
TOF tray

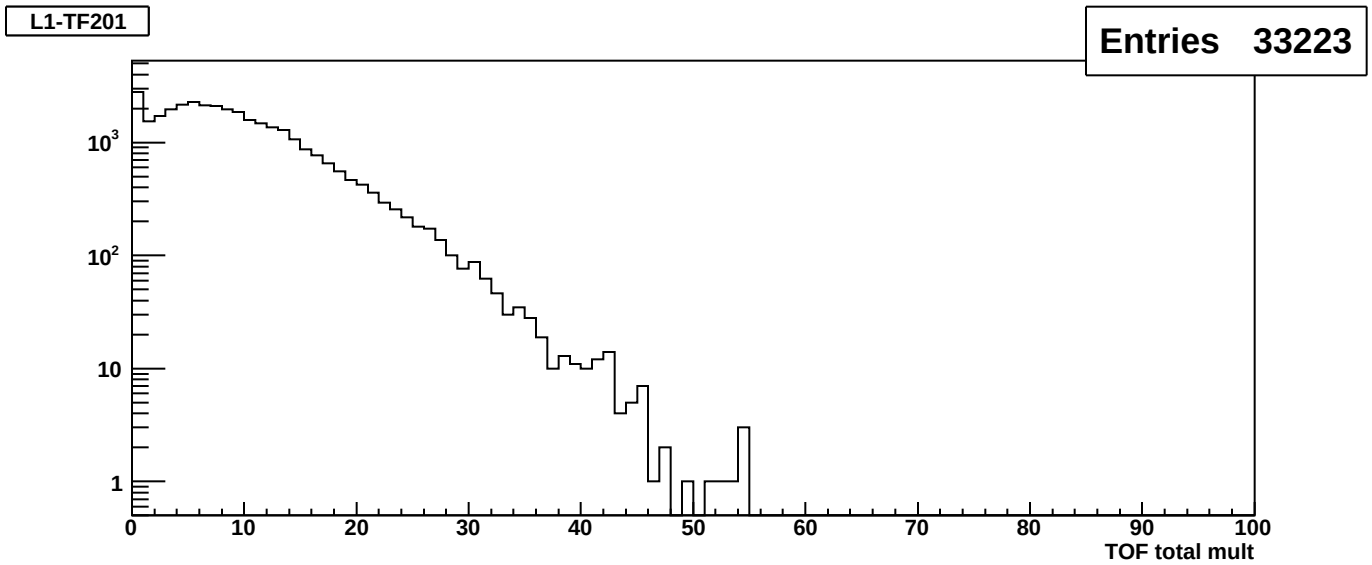

MIX-TF003
Entries 1395366
TOF MULT
TOF tray

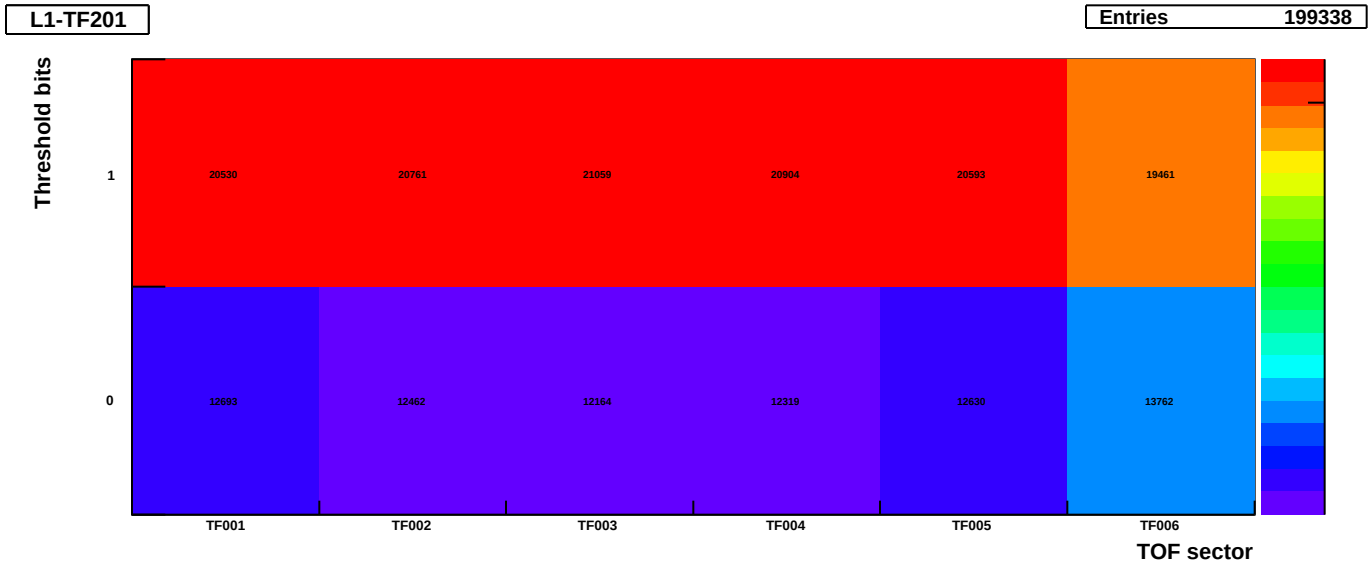

MIX-TF004
Entries 1395366
TOF MULT
TOF tray

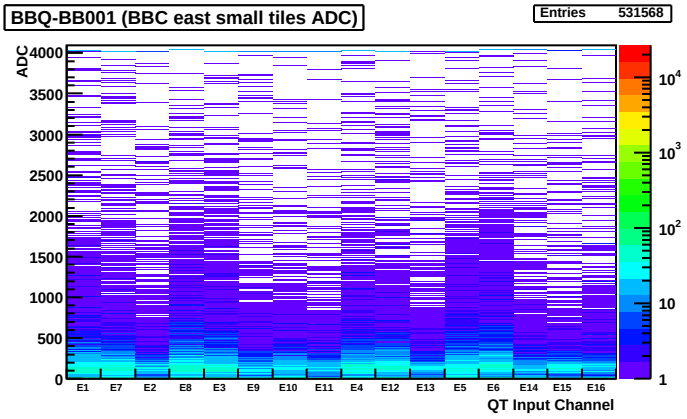

MIX-TF005
Entries 1395366
TOF MULT
TOF tray

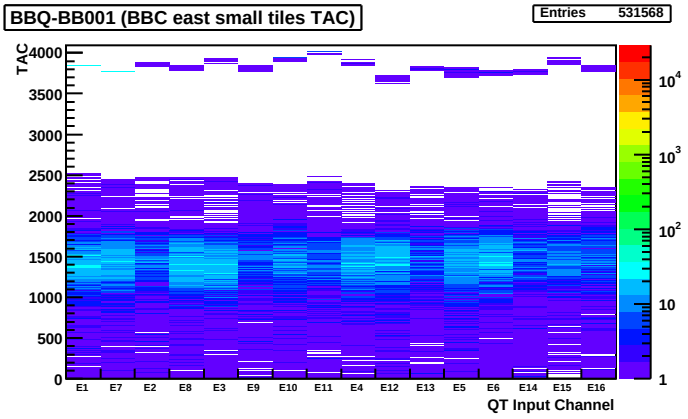

MIX-TF006
Entries 1395366
TOF MULT
TOF tray

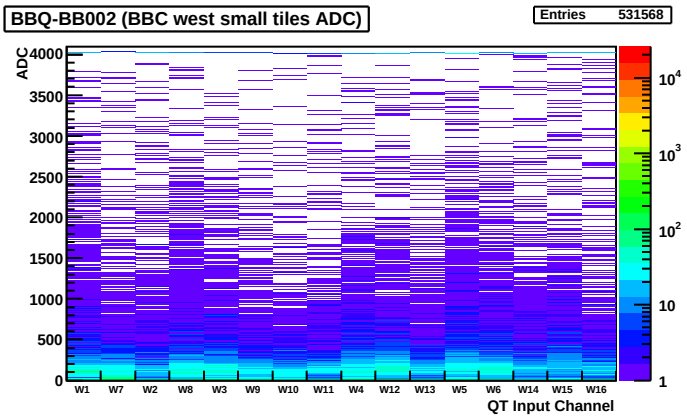

MIX-TF101
Entries 199338
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

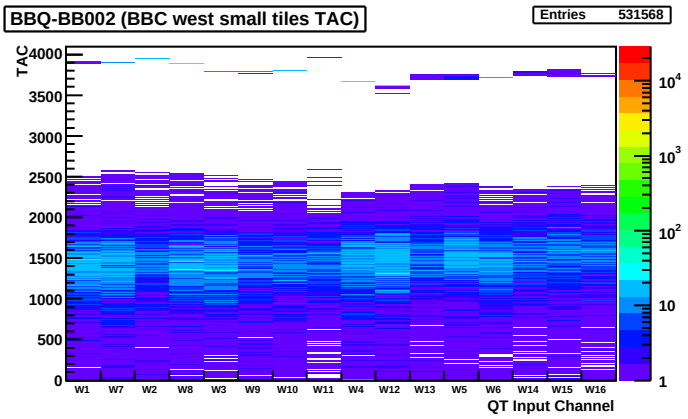

L1-TF201
Entries 33223
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

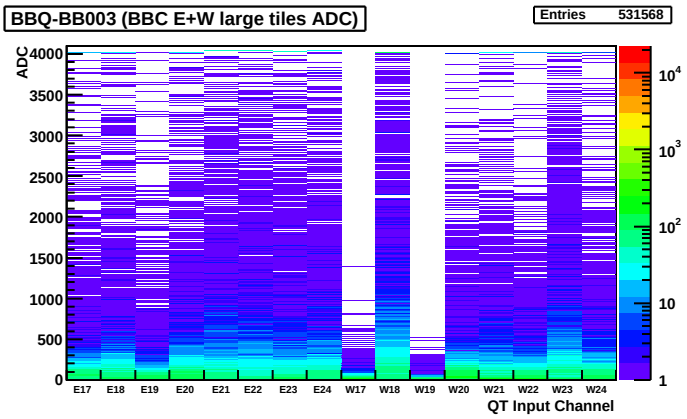

L1-TF201
Entries 199338
Threshold bits
1
0
20530
20761
21059
20904
20593
19461
12693
12462
12164
12319
12630
13762
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

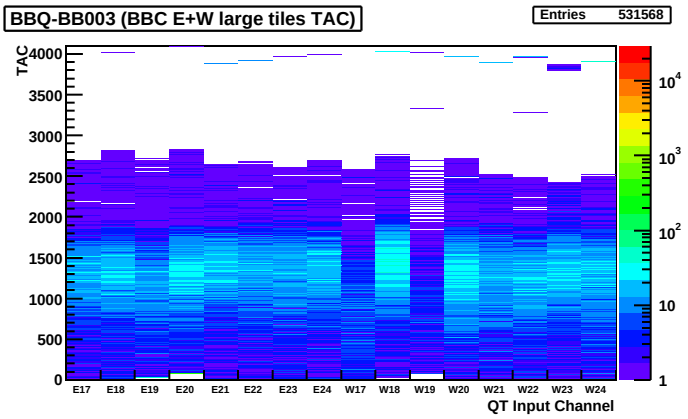

BBQ-BB001 (BBC east small tiles ADC)
Entries 531568
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

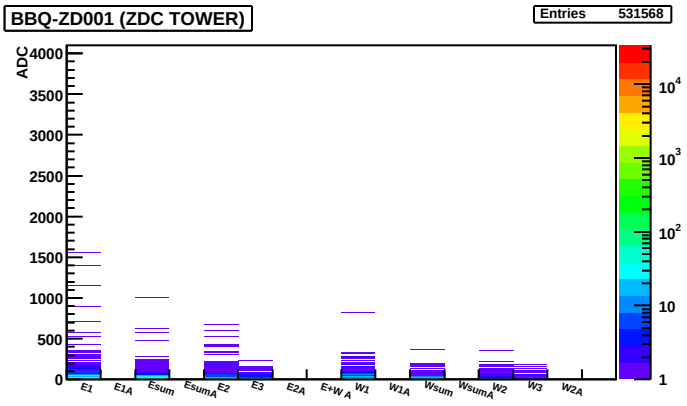

BBQ-BB001 (BBC east small tiles TAC)
Entries 531568
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

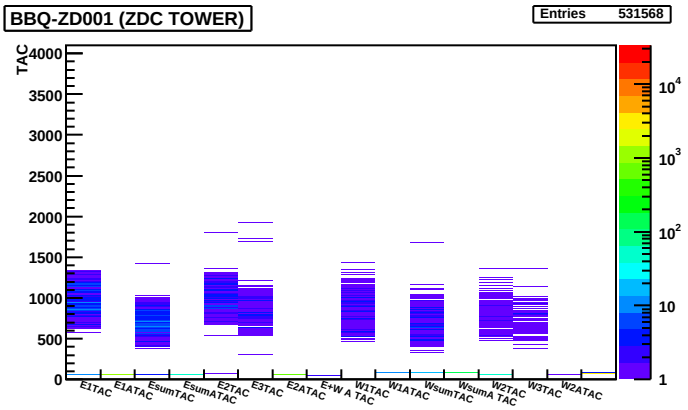

BBQ-BB002 (BBC west small tiles ADC)
Entries 531568
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

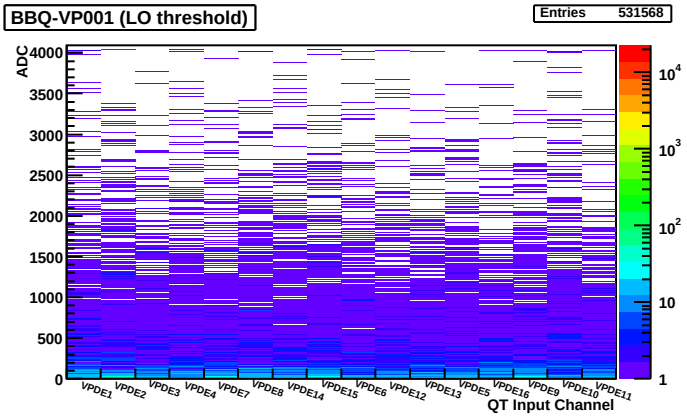

BBQ-BB002 (BBC west small tiles TAC)
Entries 531568
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

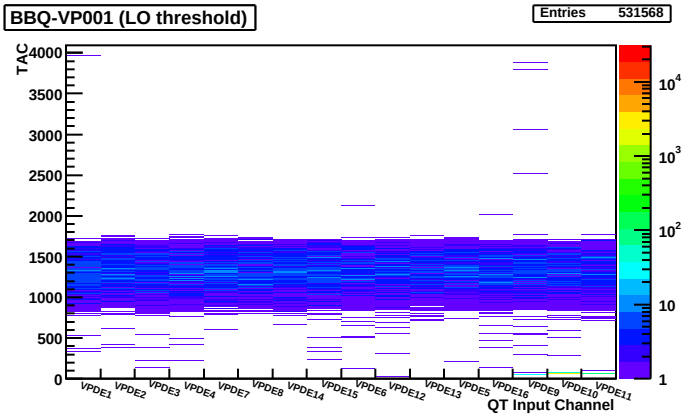

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 531568
ADC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

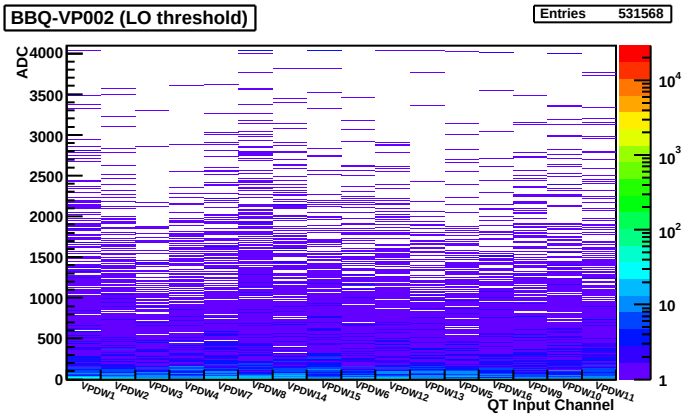

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 531568
TAC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

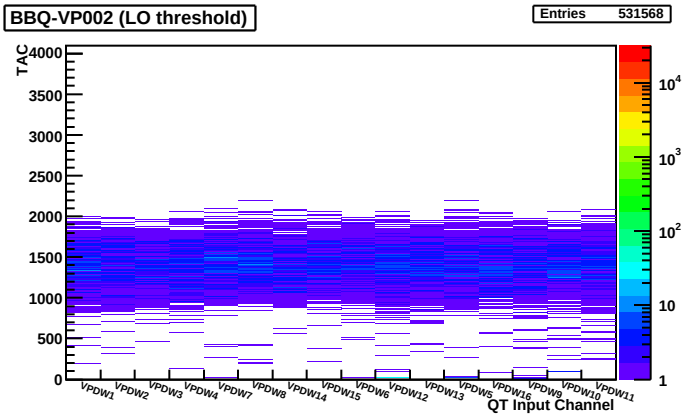

BBQ-ZD001 (ZDC TOWER)
Entries 531568
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

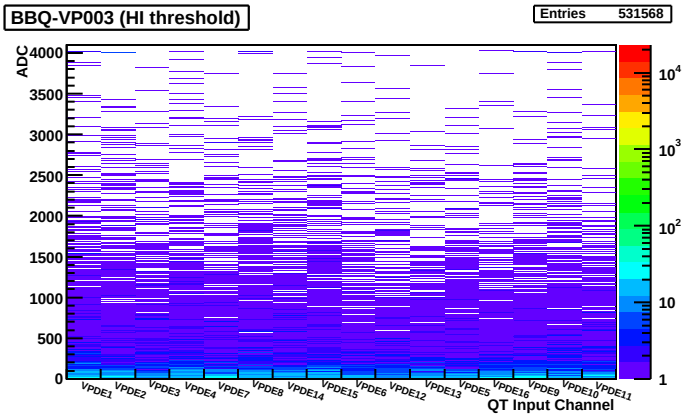

BBQ-ZD001 (ZDC TOWER)
Entries 531568
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

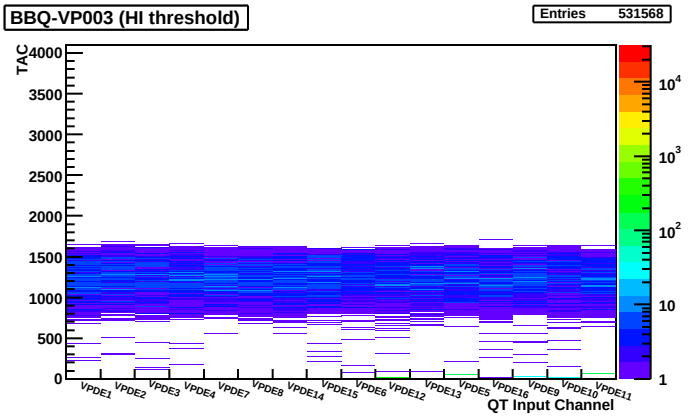

BBQ-VP001 (LO threshold)
Entries 531568
ADC
QT Input Channel

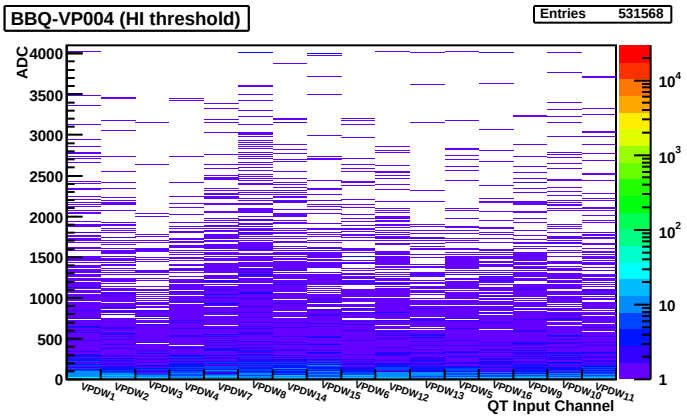

BBQ-VP001 (LO threshold)
Entries 531568
TAC
QT Input Channel

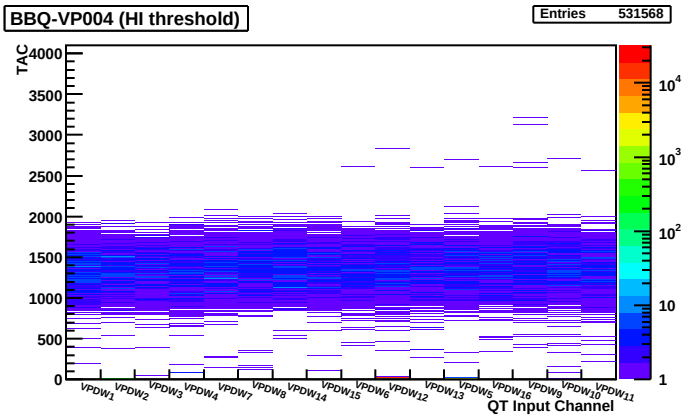

BBQ-VP002 (LO threshold)
Entries 531568
ADC
QT Input Channel

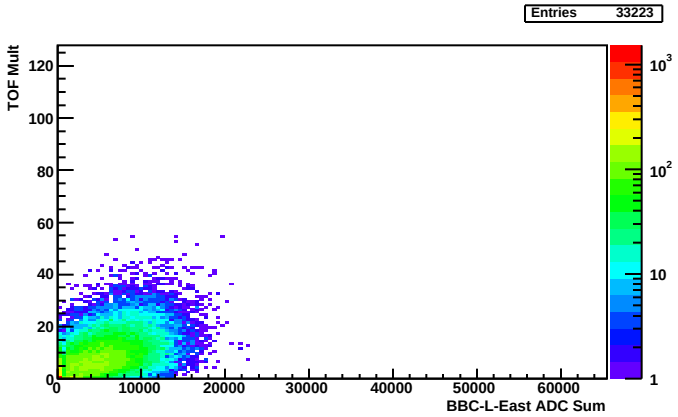

BBQ-VP002 (LO threshold)
Entries 531568
TAC
QT Input Channel

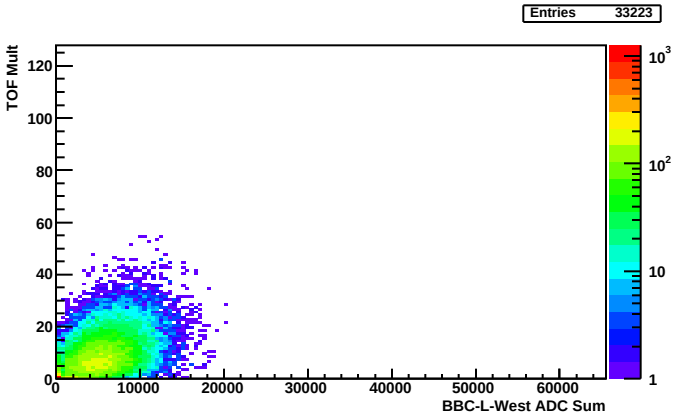

BBQ-VP003 (HI threshold)
Entries 531568
ADC
QT Input Channel

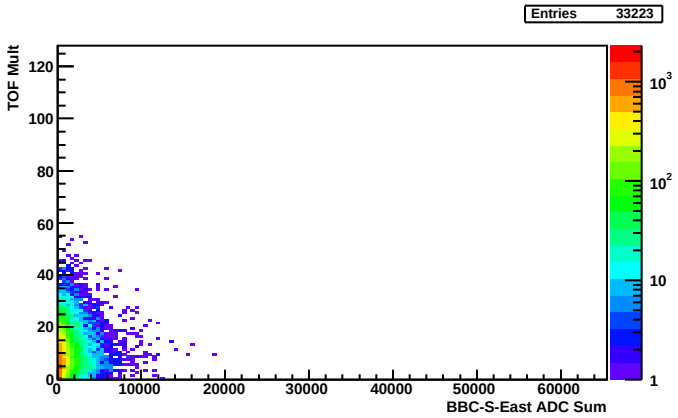

BBQ-VP003 (HI threshold)
Entries 531568
TAC
QT Input Channel

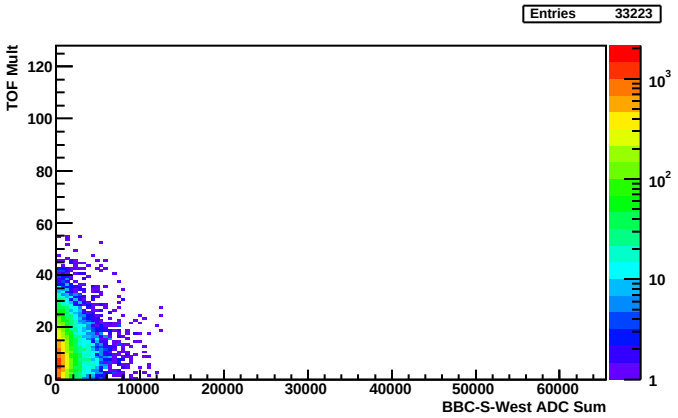

BBQ-VP004 (HI threshold)
Entries 531568
ADC
QT Input Channel

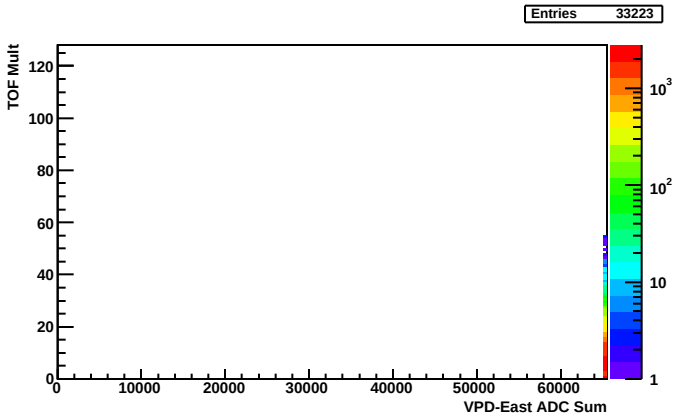

BBQ-VP004 (HI threshold)
Entries 531568
TAC
QT Input Channel

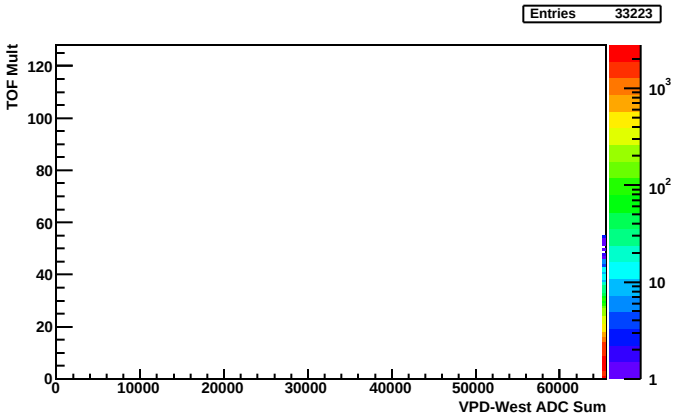

Entries 33223
TOF Mult
BBC-L-East ADC Sum

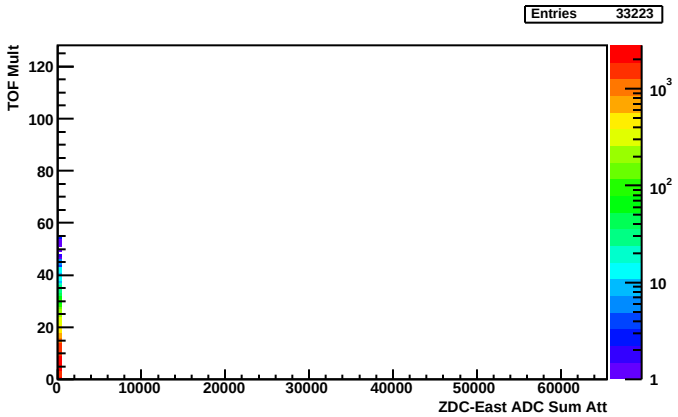

Entries 33223
TOF Mult
BBC-L-West ADC Sum

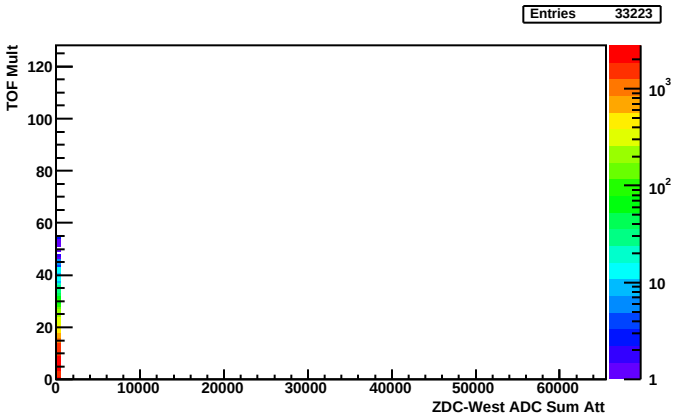

Entries 33223
TOF Mult
BBC-S-East ADC Sum

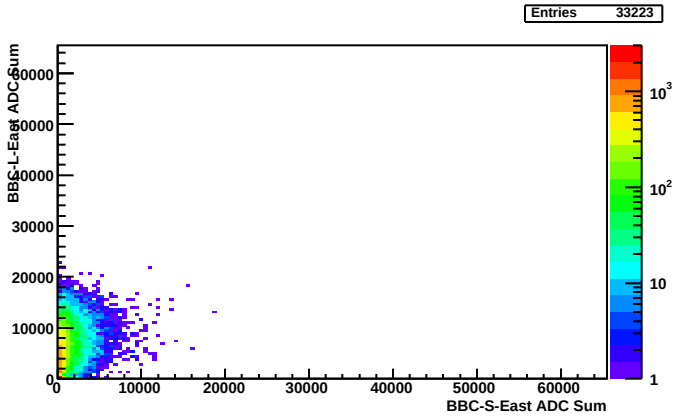

Entries 33223
TOF Mult
BBC-S-West ADC Sum

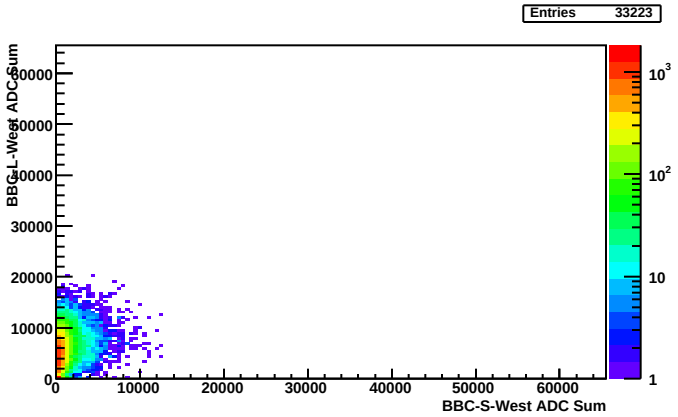

Entries 33223
TOF Mult
VPD-East ADC Sum

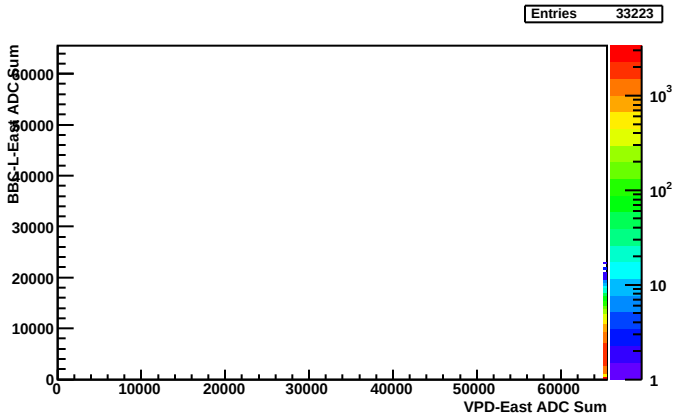

Entries 33223
TOF Mult
VPD-West ADC Sum

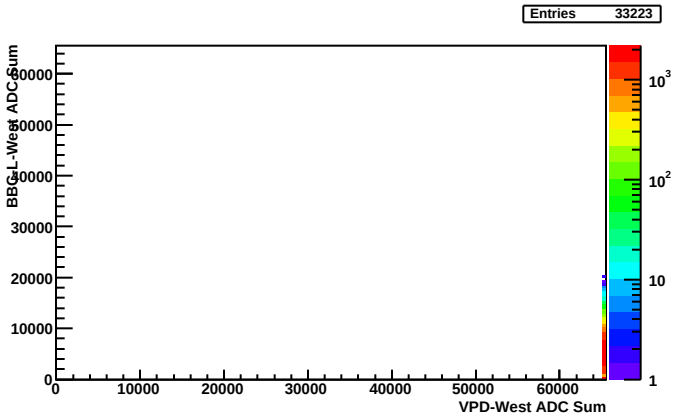

Entries 33223
TOF Mult
ZDC-East ADC Sum Att

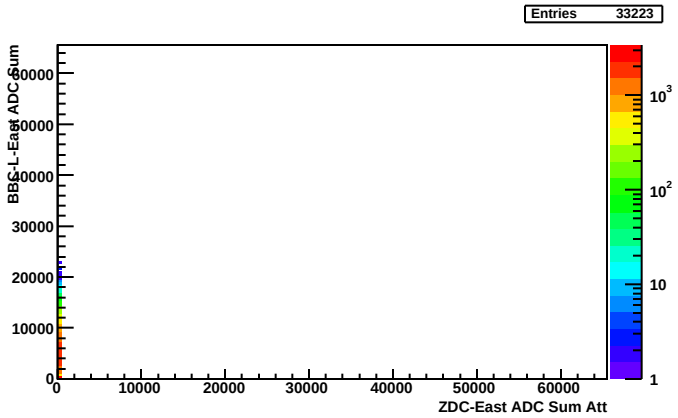

Entries 33223
TOF Mult
ZDC-West ADC Sum Att

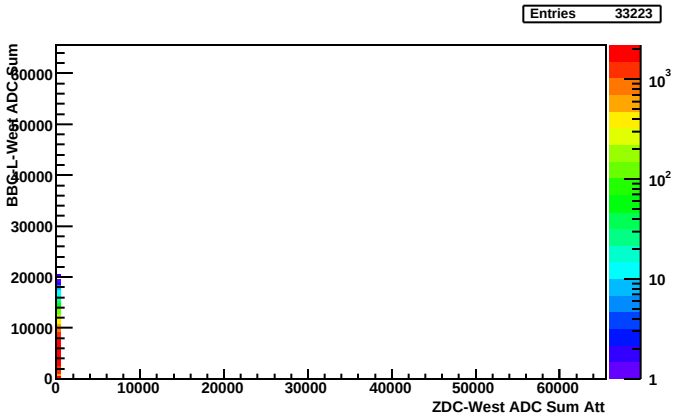

Entries 33223
BBC-L-East ADC Sum
BBC-S-East ADC Sum

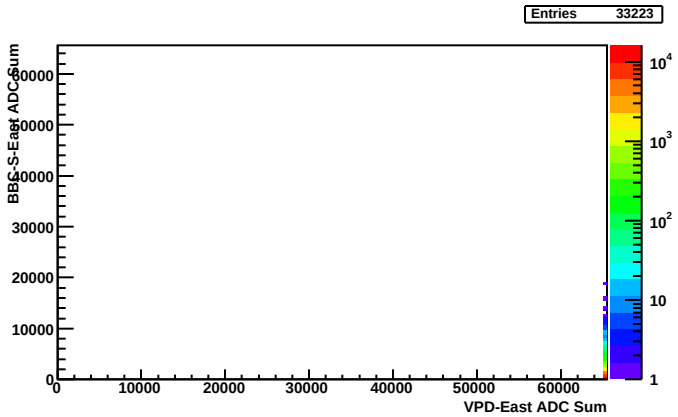

Entries 33223
BBC-L-West ADC Sum
BBC-S-West ADC Sum

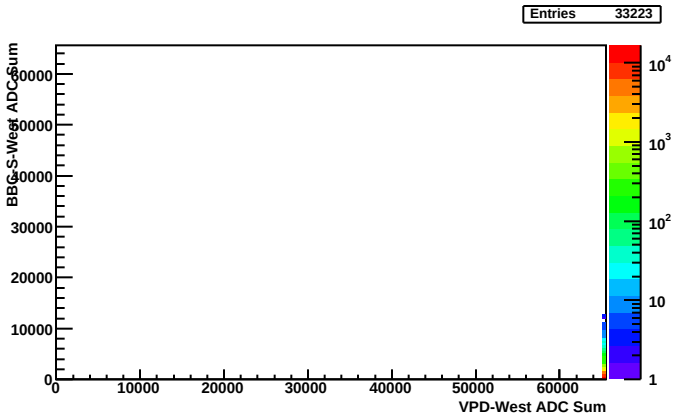

Entries 33223
BBC-L-East ADC Sum
VPD-East ADC Sum

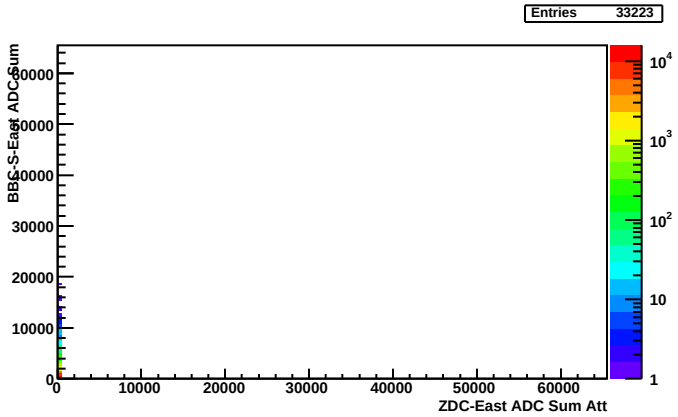

Entries 33223
BBC-L-West ADC Sum
VPD-West ADC Sum

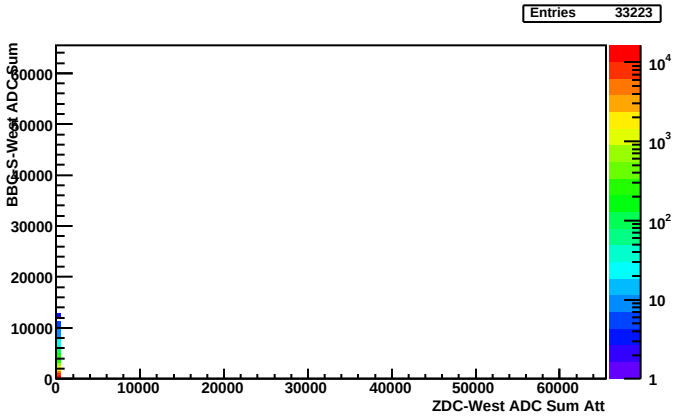

Entries 33223
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

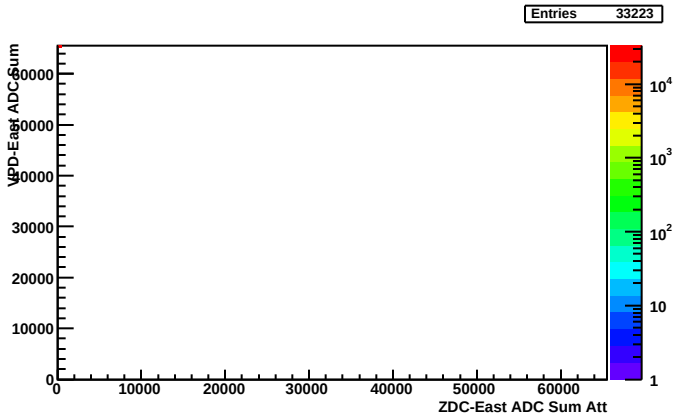

Entries 33223
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

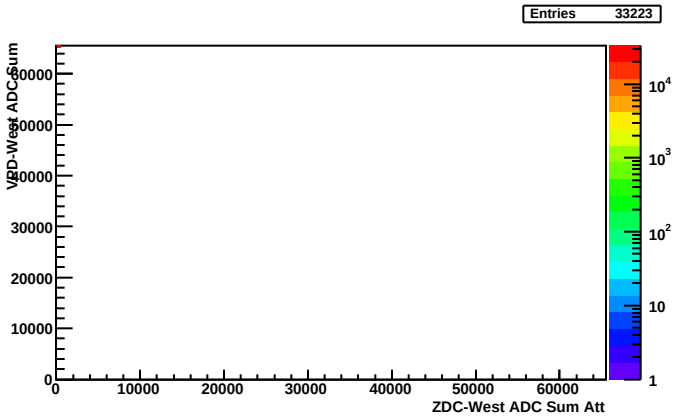

Entries 33223
BBC-S-East ADC Sum
VPD-East ADC Sum

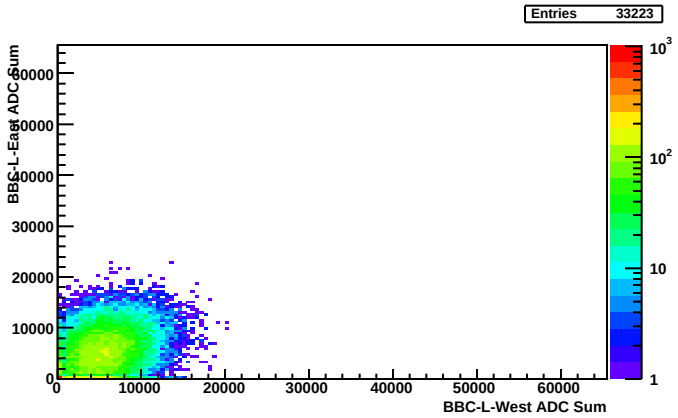

Entries 33223
BBC-S-West ADC Sum
VPD-West ADC Sum

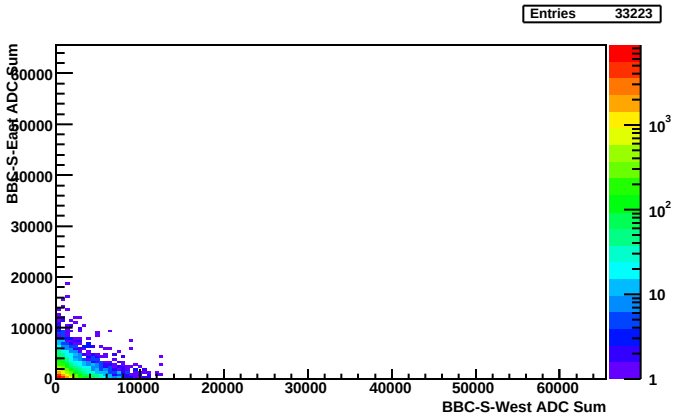

Entries 33223
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

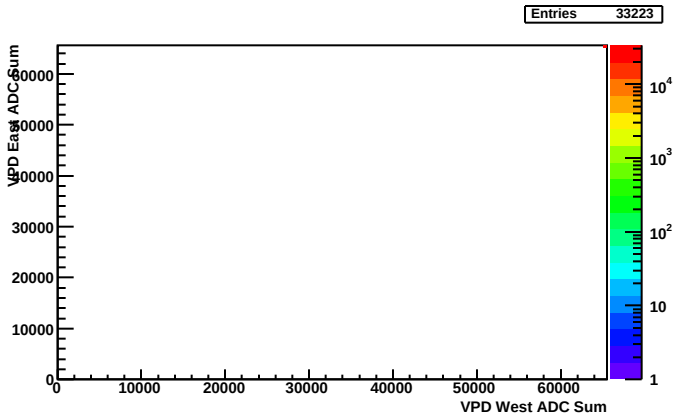

Entries 33223
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

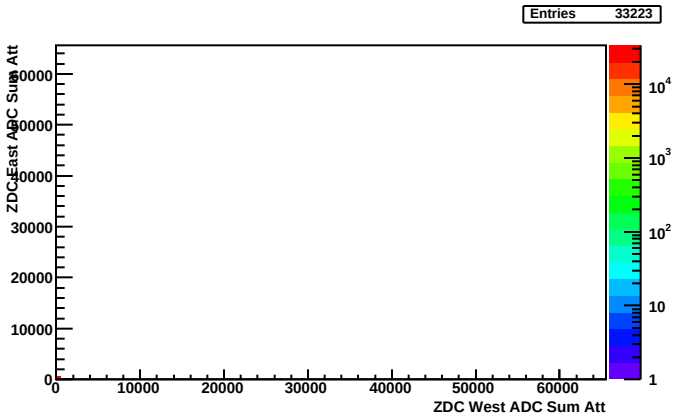

Entries 33223
VPD-East ADC Sum
ZDC-East ADC Sum Att

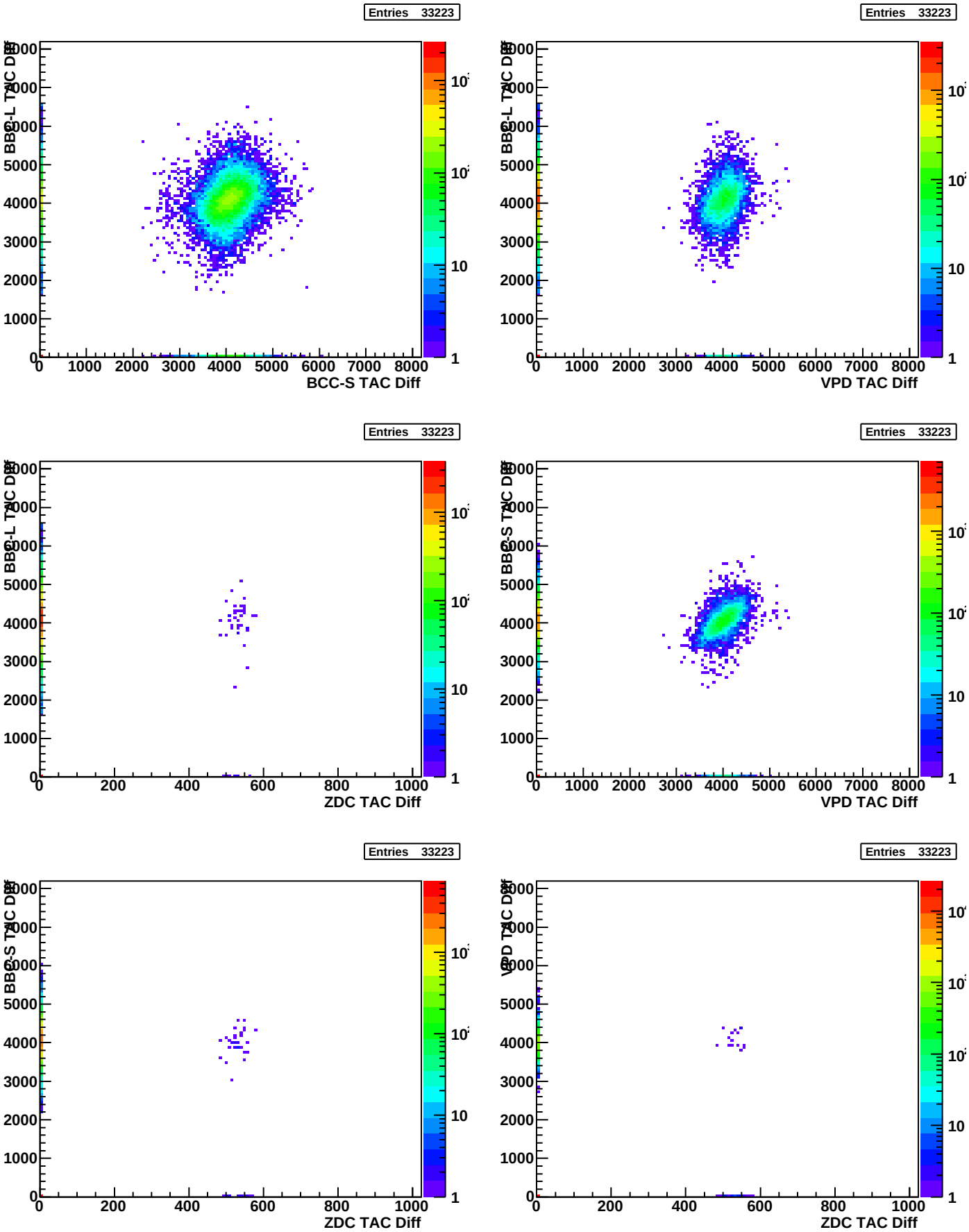

Entries 33223
VPD-West ADC Sum
ZDC-West ADC Sum Att

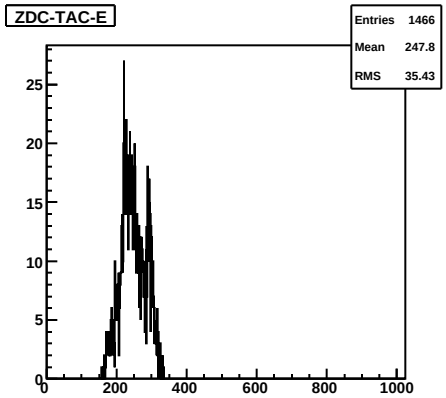

Entries 33223
BBC-L-East ADC Sum
BBC-L-West ADC Sum

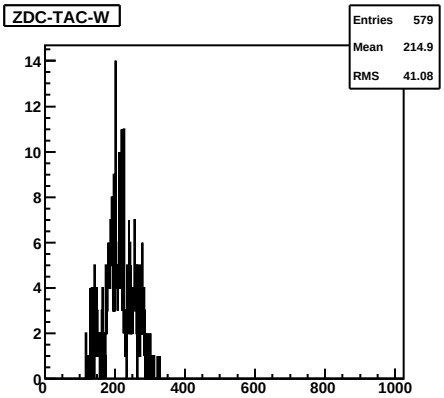

Entries 33223
BBC-S-East ADC Sum
BBC-S-West ADC Sum

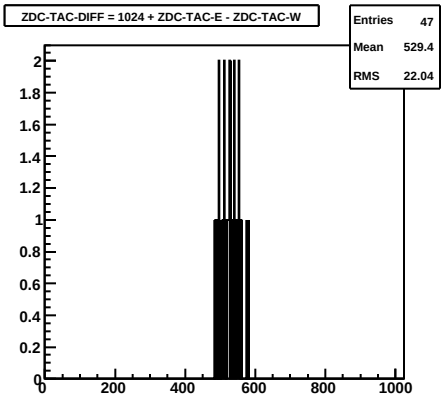

Entries 33223
VPD East ADC Sum
VPD West ADC Sum

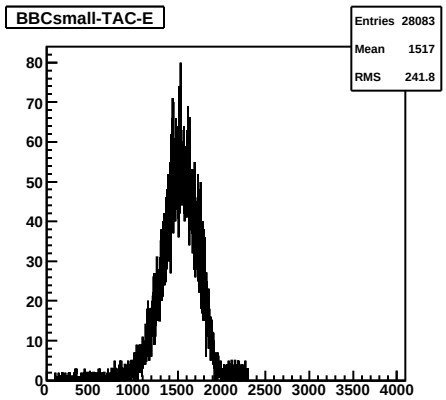

Entries 33223
ZDC East ADC Sum Att
ZDC West ADC Sum Att

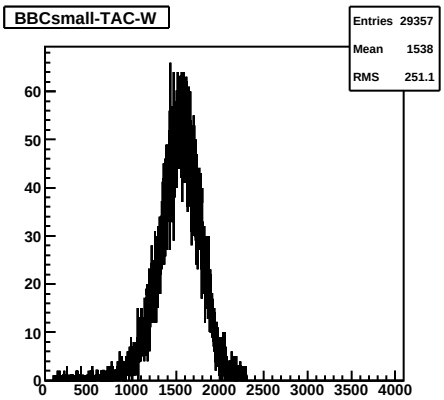

Entries 33223
BBC-L TAC Diff
BCC-S TAC Diff
Entries 33223
BBC-L TAC Diff
VPD TAC Diff
Entries 33223
BBC-L TAC Diff
ZDC TAC Diff
Entries 33223
BBC-S TAC Diff
VPD TAC Diff
Entries 33223
BBC-S TAC Diff
ZDC TAC Diff
Entries 33223
VPD TAC Diff
ZDC TAC Diff

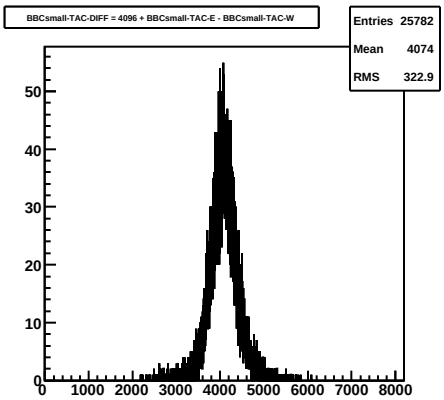

ZDC-TAC-E
Entries 1466
Mean 247.8
RMS 35.43

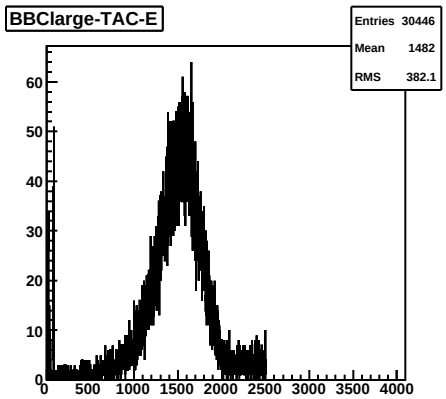

ZDC-TAC-W
Entries 579
Mean 214.9
RMS 41.08

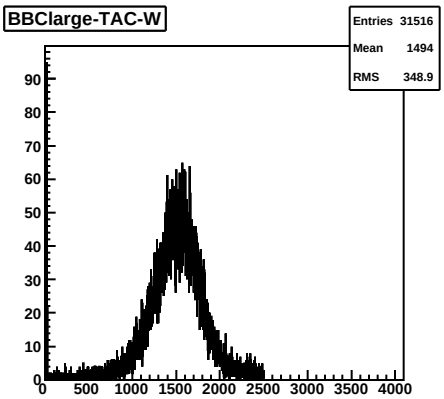

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 47
Mean 529.4
RMS 22.04

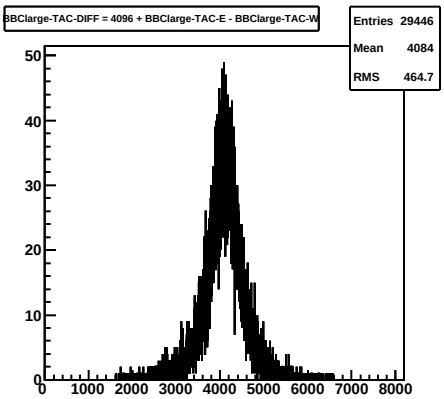

BBCsmall-TAC-E
Entries 28083
Mean 1517
RMS 241.8

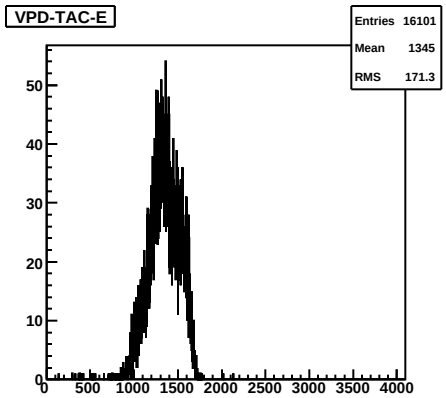

BBCsmall-TAC-W
Entries 29357
Mean 1538
RMS 251.1

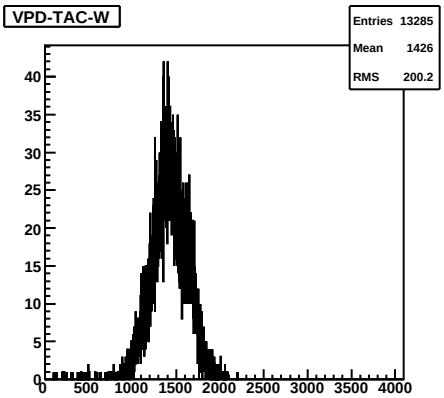

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 25782
Mean 4074
RMS 322.9

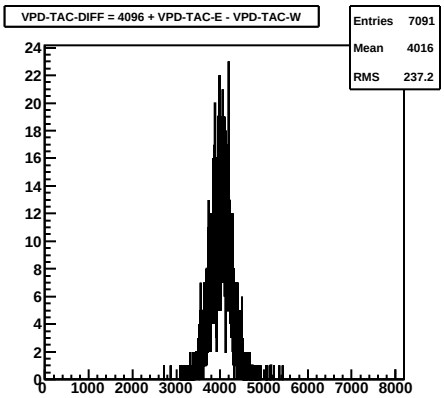

BBClarge-TAC-E
Entries 30446
Mean 1482
RMS 382.1

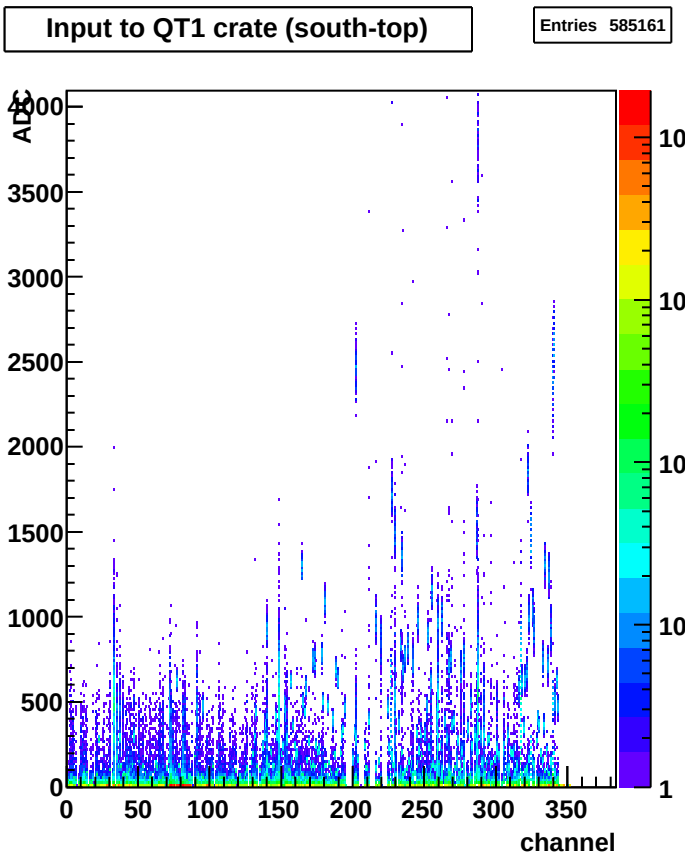

BBClarge-TAC-W
Entries 31516
Mean 1494
RMS 348.9

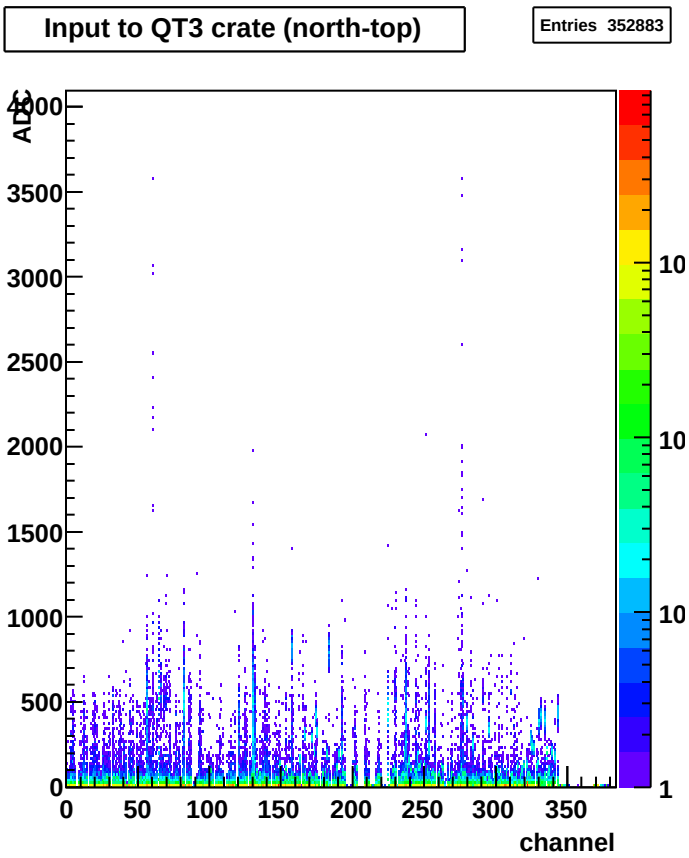

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 29446
Mean 4084
RMS 464.7

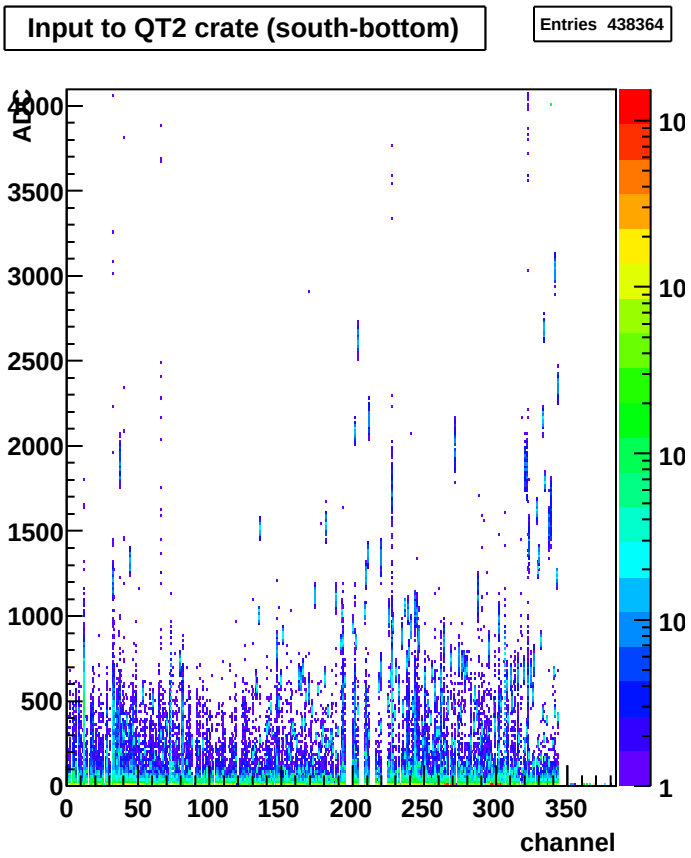

VPD-TAC-E
Entries 16101
Mean 1345
RMS 171.3

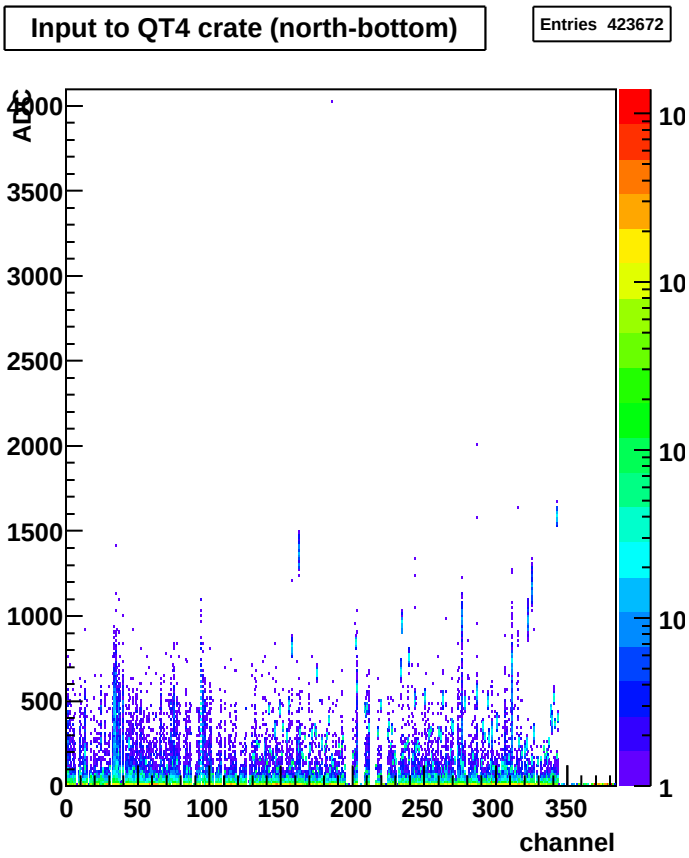

VPD-TAC-W
Entries 13285
Mean 1426
RMS 200.2

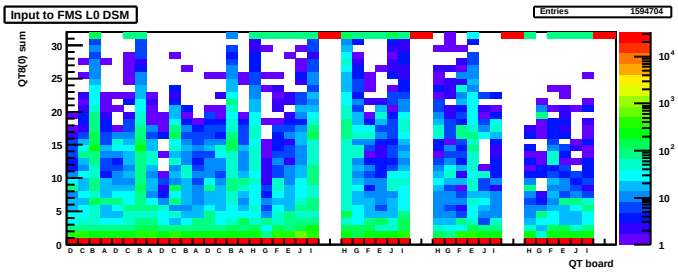

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 7091
Mean 4016
RMS 237.2

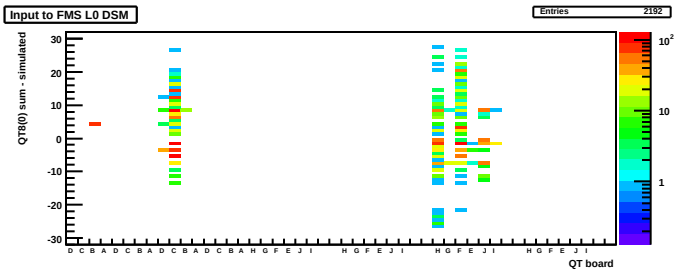

Input to QT1 crate (south-top)
Entries 585161
ADC
channel

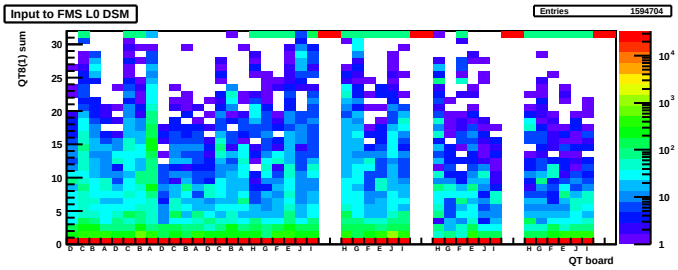

Input to QT3 crate (north-top)
Entries 352883
ADC
channel

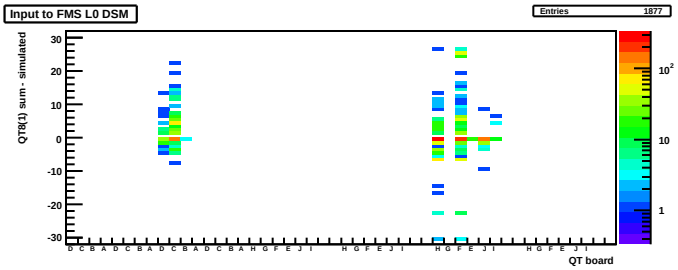

Input to QT2 crate (south-bottom)
Entries 438364
ADC
channel

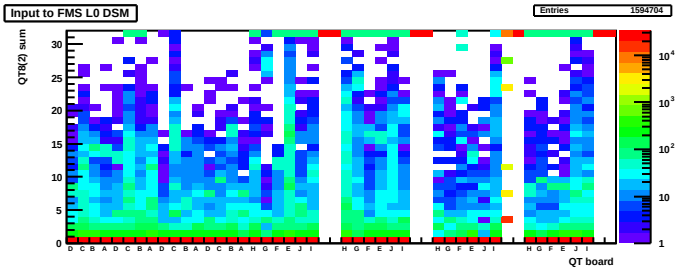

Input to QT4 crate (north-bottom)
Entries 423672
ADC
channel

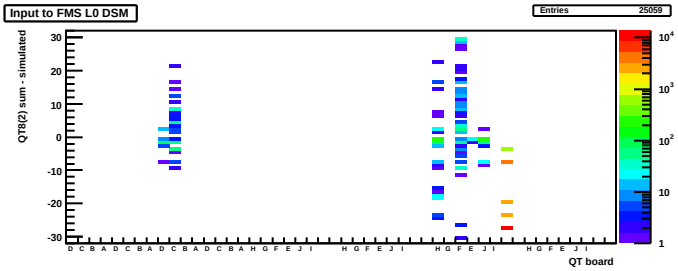

Input to FMS L0 DSM
Entries 1594704
QT8(0) sum
QT board

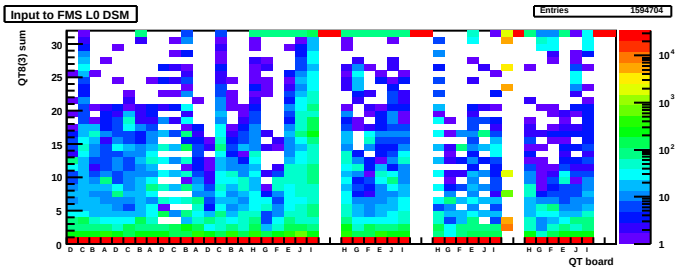

Input to FMS L0 DSM
Entries 2192
QT8(0) sum - simulated
QT board

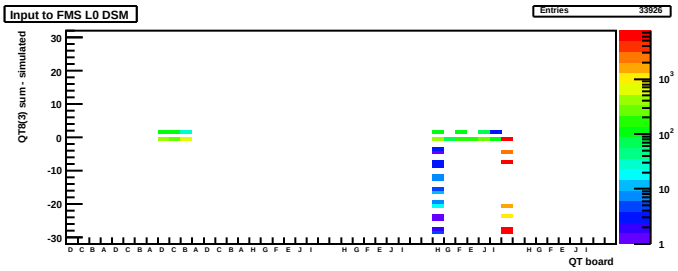

Input to FMS L0 DSM
Entries 1594704
QT8(1) sum
QT board

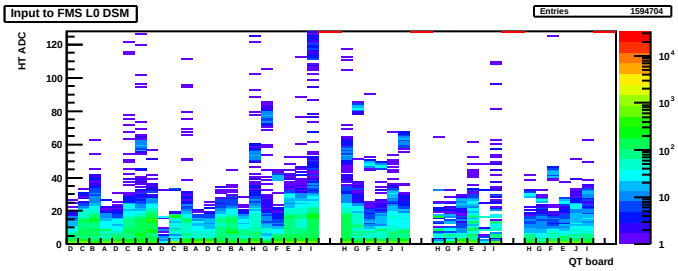

Input to FMS L0 DSM
Entries 1877
QT8(1) sum - simulated
QT board

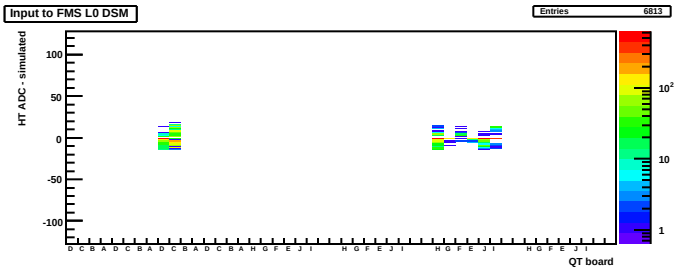

Input to FMS L0 DSM
Entries 1594704
QT8(2) sum
QT board

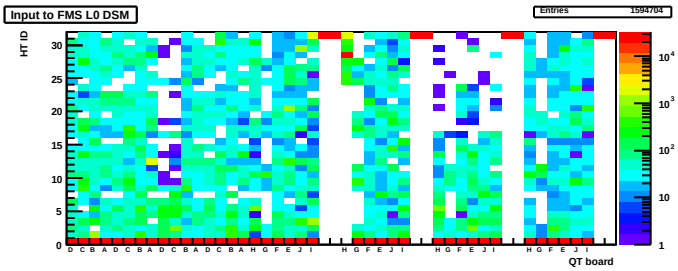

Input to FMS L0 DSM
Entries 25059
QT8(2) sum - simulated
QT board

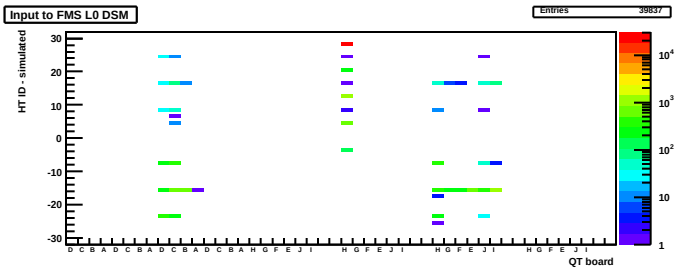

Input to FMS L0 DSM
Entries 1594704
QT8(3) sum
QT board

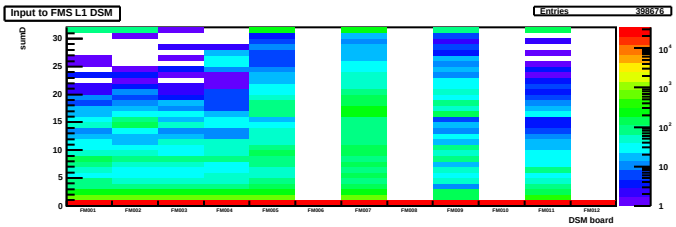

Input to FMS L0 DSM
Entries 33926
QT8(3) sum - simulated
QT board

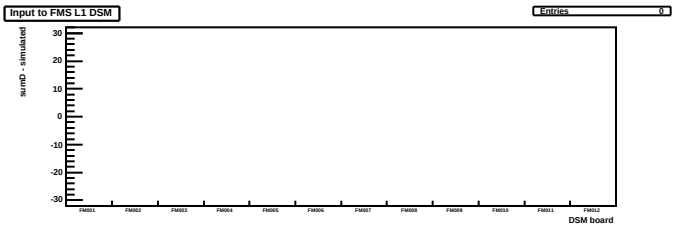

Input to FMS L0 DSM
Entries 1594704
HT ADC
QT board

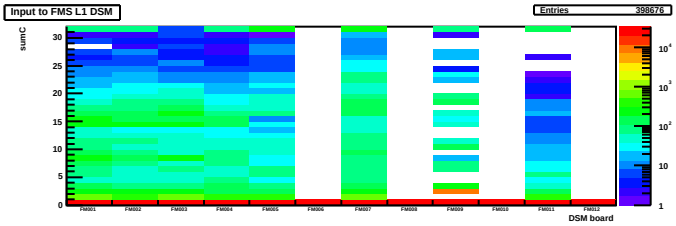

Input to FMS L0 DSM
Entries 6813
HT ADC - simulated
QT board

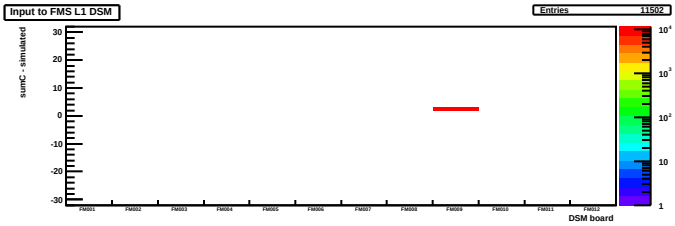

Input to FMS L0 DSM
Entries 1594704
HT ID
QT board

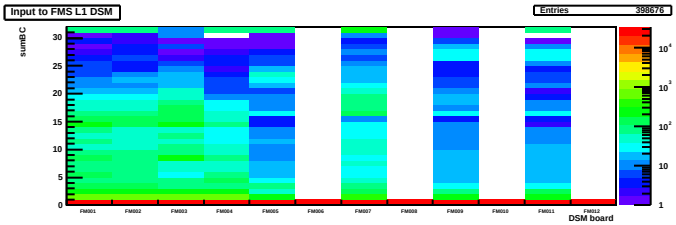

Input to FMS L0 DSM
Entries 39837
HT ID - simulated
QT board

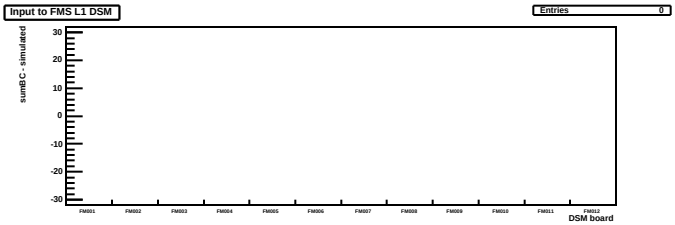

Input to FMS L1 DSM
Entries 398676
sumD
DSM board

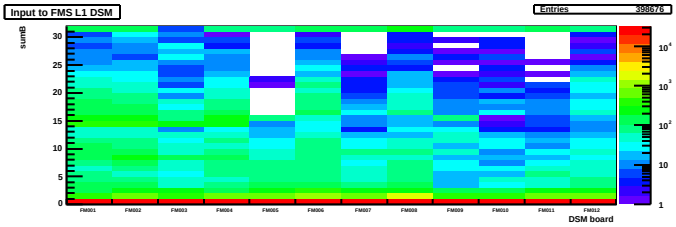

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

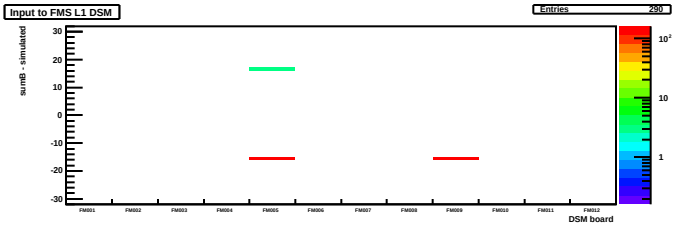

Input to FMS L1 DSM
Entries 398676
sumC
DSM board

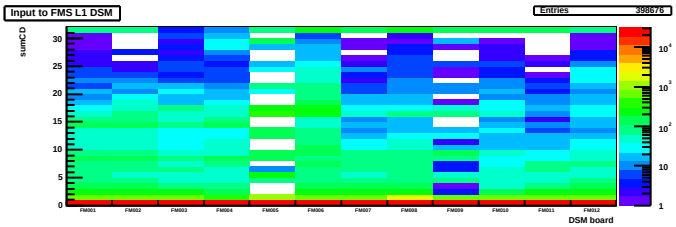

Input to FMS L1 DSM
Entries 11502
sumC - simulated
DSM board

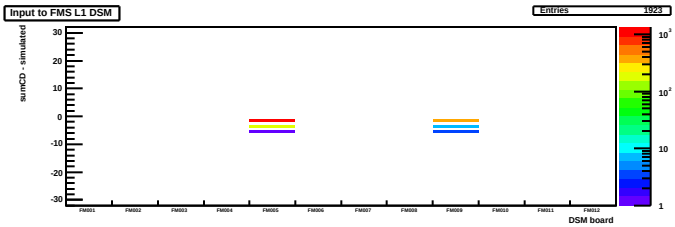

Input to FMS L1 DSM
Entries 398676
sumBC
DSM board

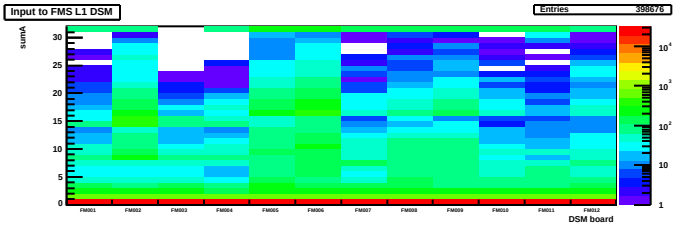

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

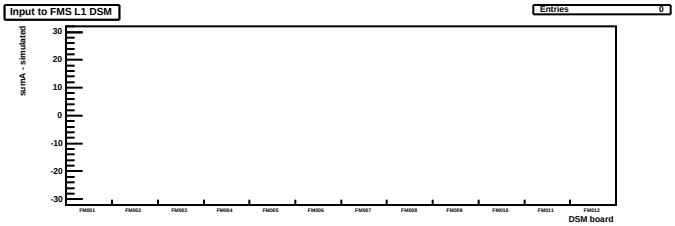

Input to FMS L1 DSM
Entries 398676
sumB
DSM board

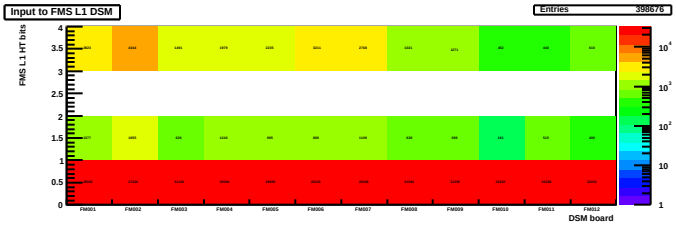

Input to FMS L1 DSM
Entries 290
sumB - simulated
DSM board

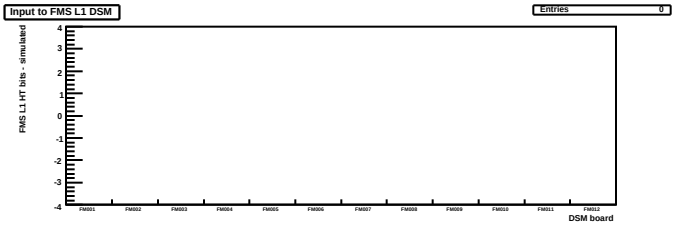

Input to FMS L1 DSM
Entries 398676
sumCD
DSM board

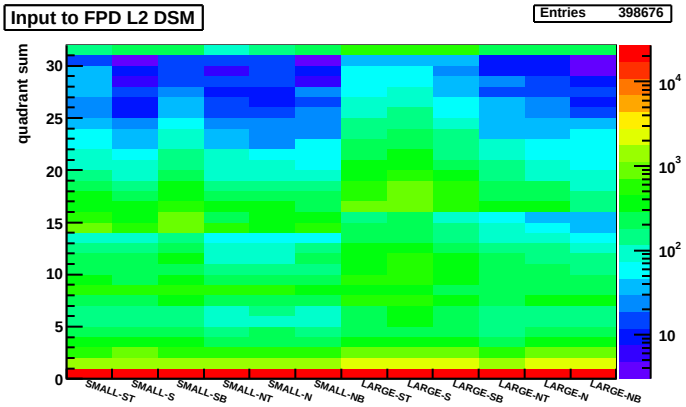

Input to FMS L1 DSM
Entries 1923
sumCD - simulated
DSM board

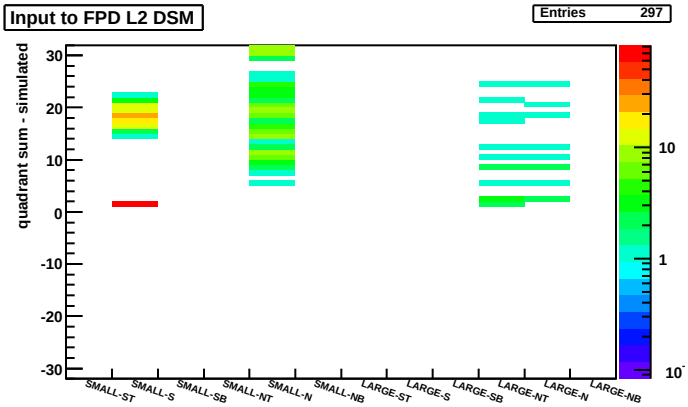

Input to FMS L1 DSM
Entries 398676
sumA
DSM board

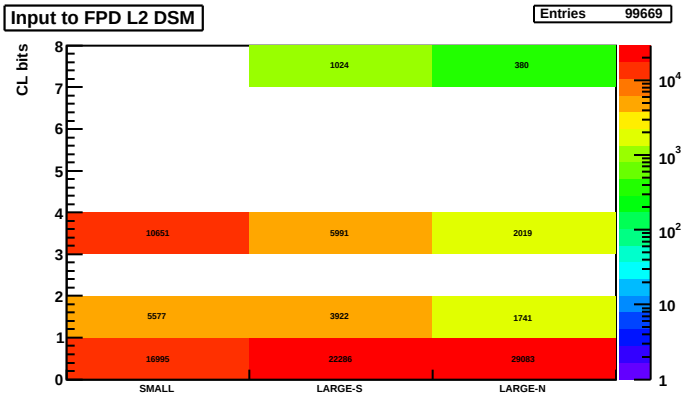

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

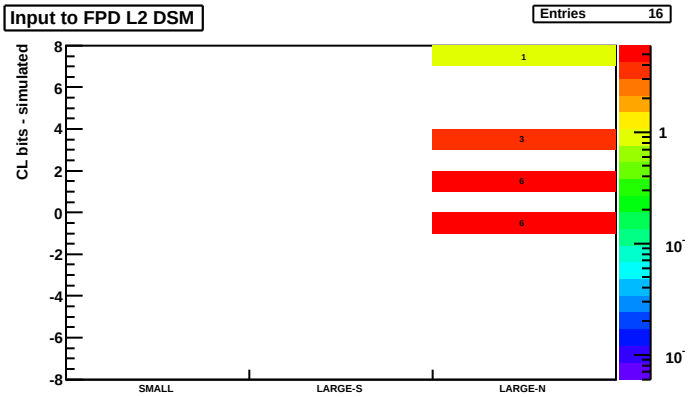

Input to FMS L1 DSM
Entries 398676
FMS L1 HT bits
DSM board

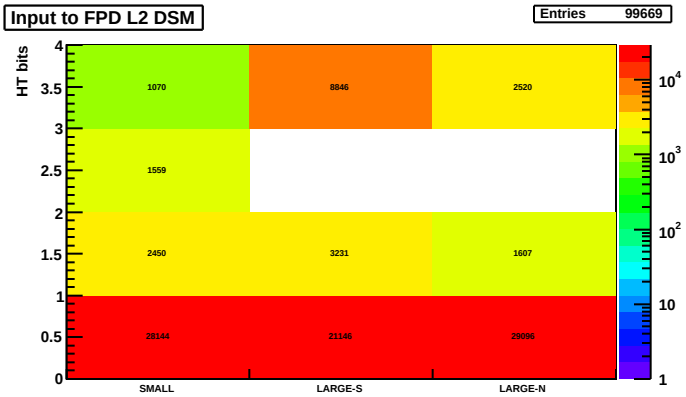

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

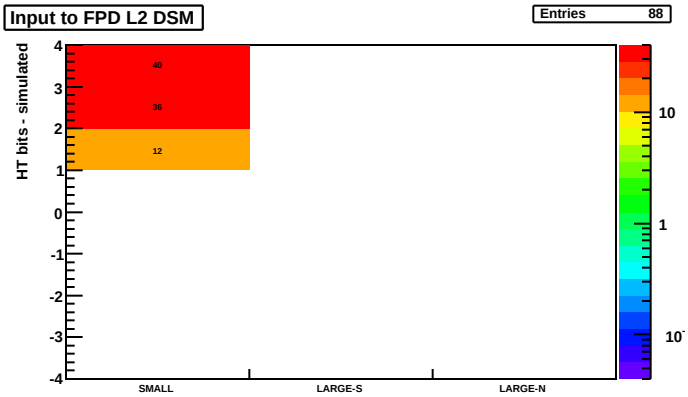

Input to FPD L2 DSM
Entries 398676
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

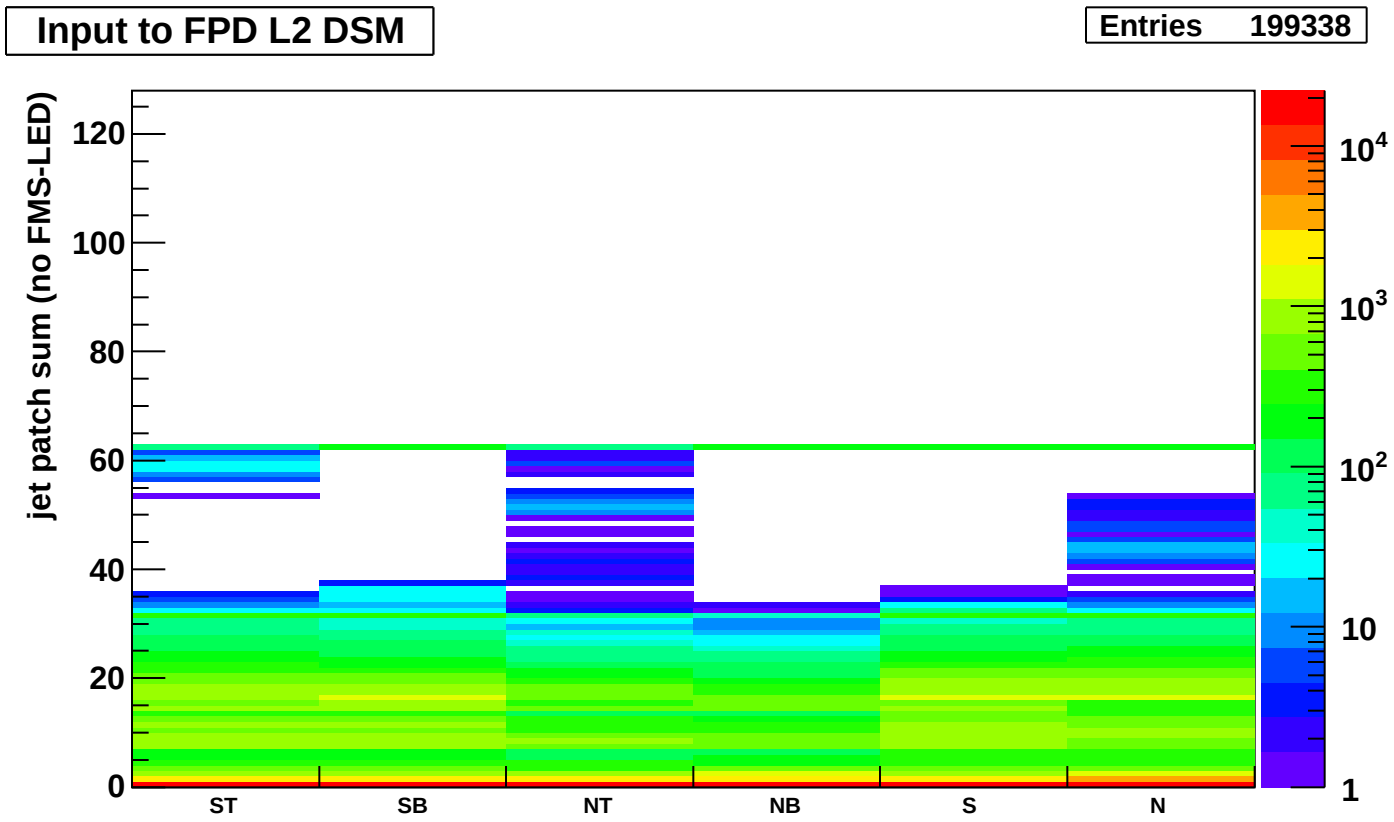

Input to FPD L2 DSM
Entries 297
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

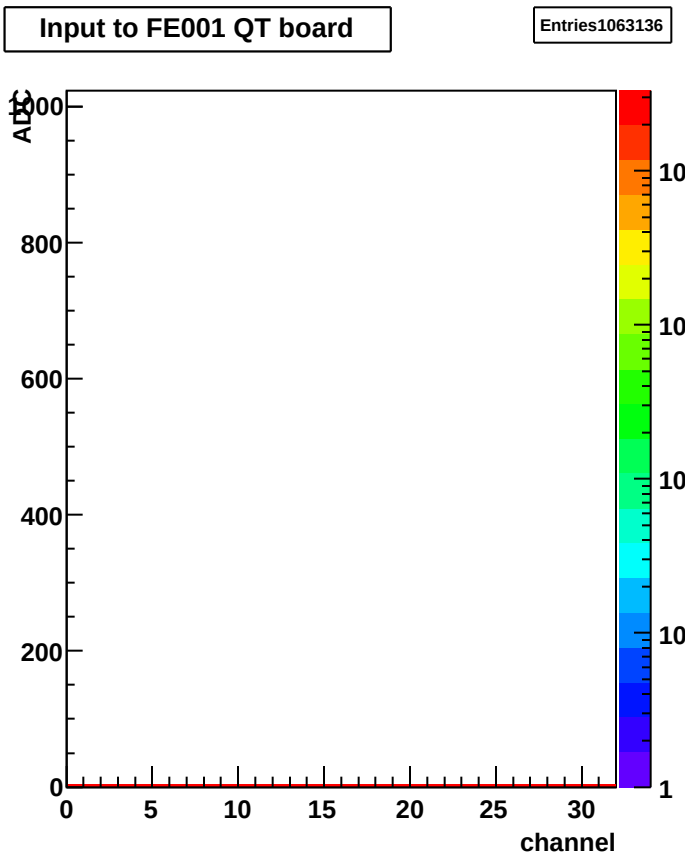

Input to FPD L2 DSM
Entries 99669
CL bits
1024
380
10651
5991
2019
5577
3922
1741
16995
22286
29083
SMALL
LARGE-S
LARGE-N

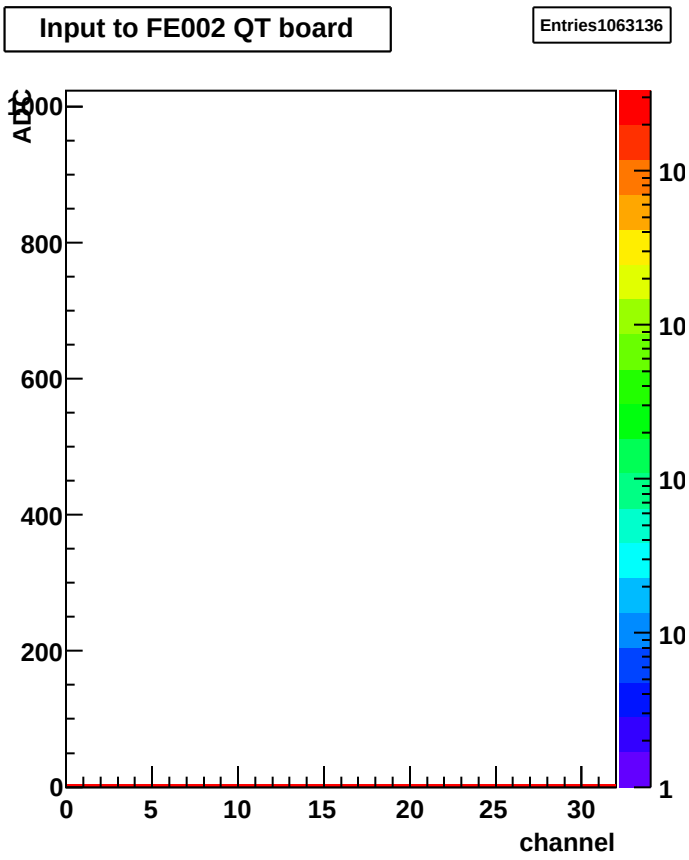

Input to FPD L2 DSM
Entries 16
CL bits - simulated
1
3
6
6
SMALL
LARGE-S
LARGE-N

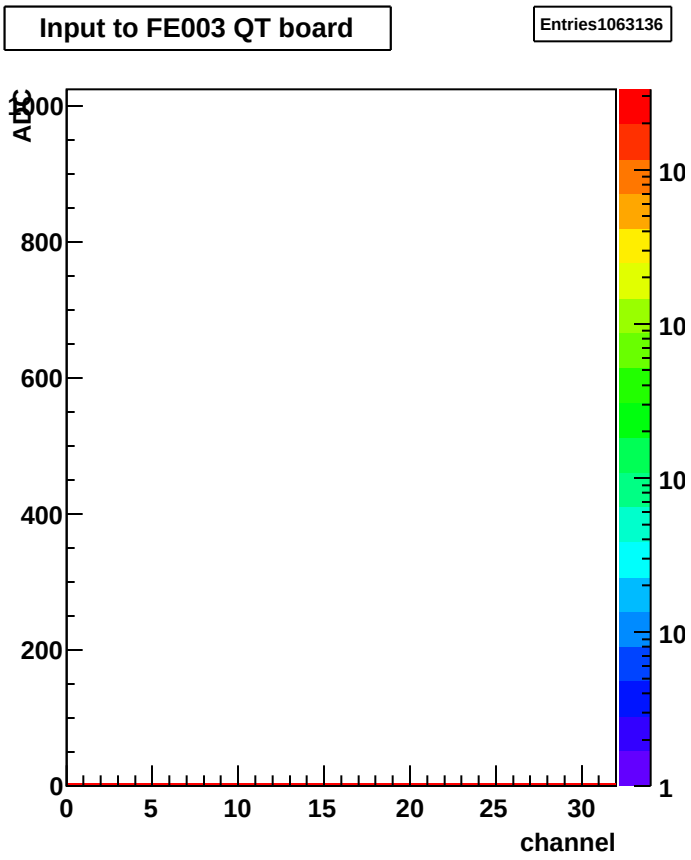

Input to FPD L2 DSM
Entries 99669
HT bits
1070
8846
2520
1559
2450
3231
1607
28144
21146
29096
SMALL
LARGE-S
LARGE-N

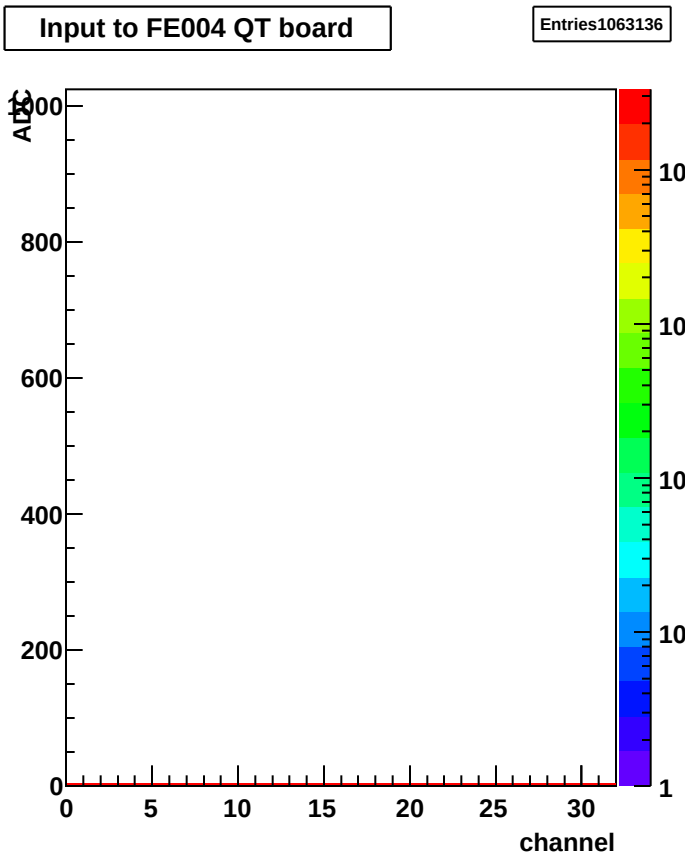

Input to FPD L2 DSM
Entries 88
HT bits - simulated
40
36
12
SMALL
LARGE-S
LARGE-N

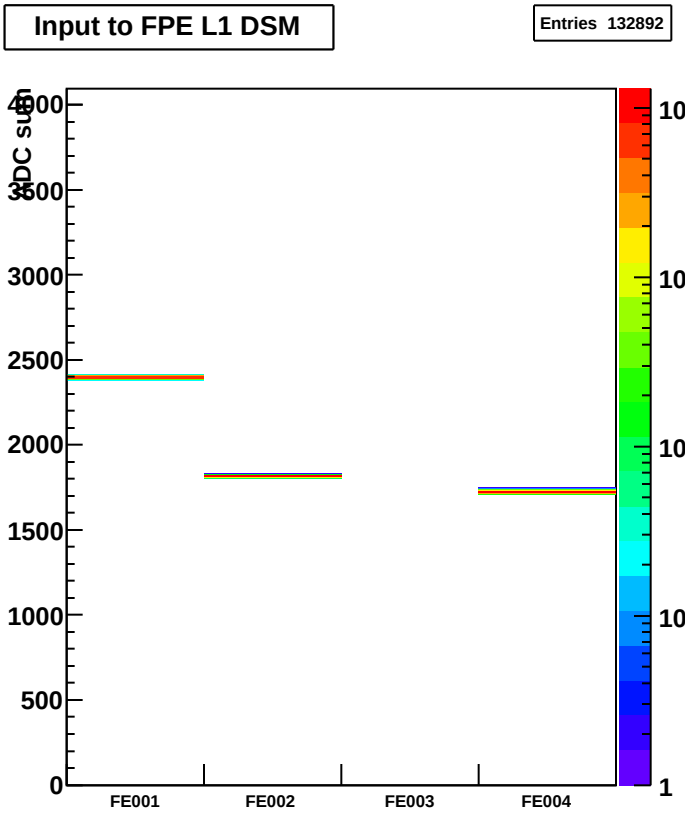

Input to FPD L2 DSM
Entries 199338
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

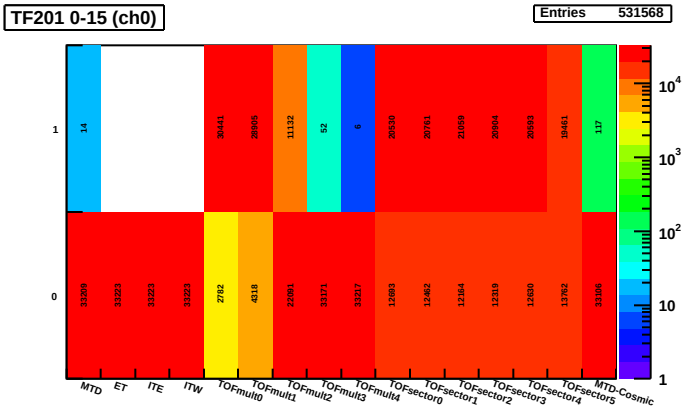

Input to FE001 QT board
Entries1063136
ADC
channel

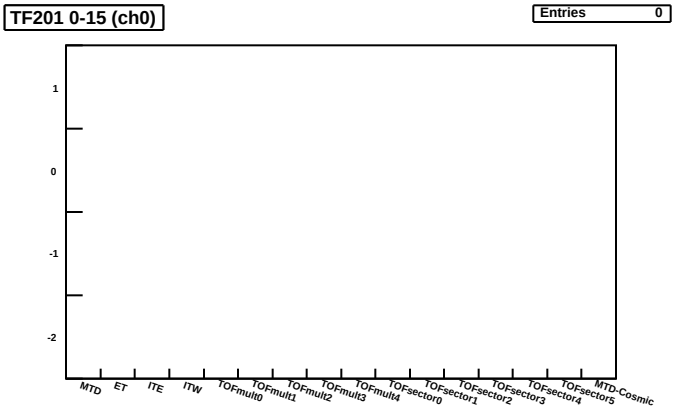

Input to FE002 QT board
Entries1063136
ADC
channel

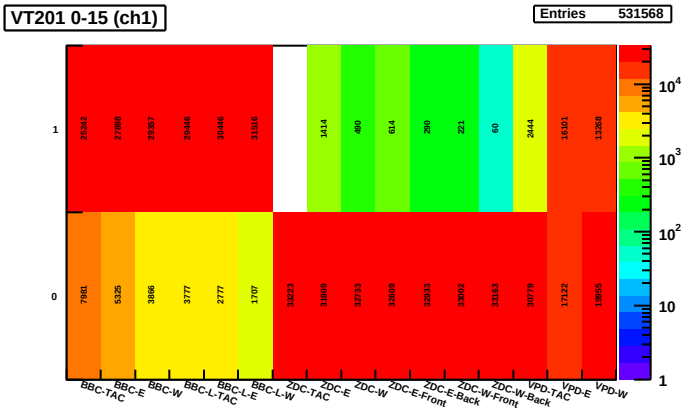

Input to FE003 QT board
Entries1063136
ADC
channel

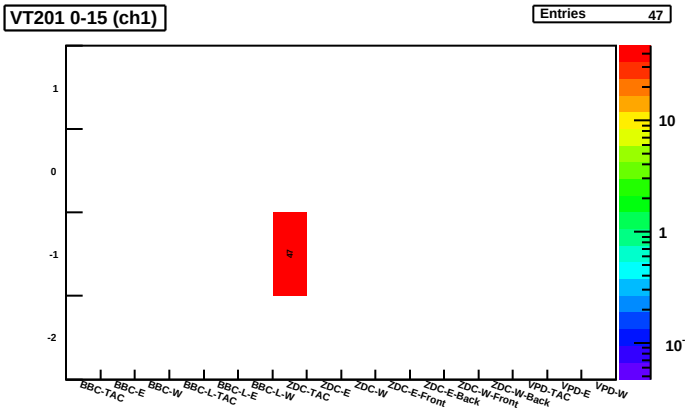

Input to FE004 QT board
Entries1063136
ADC
channel

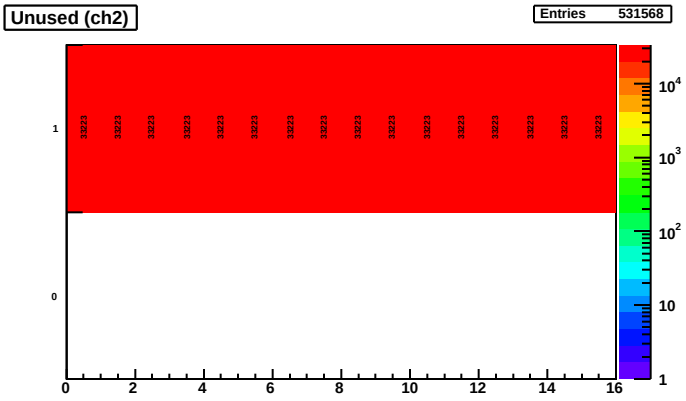

Input to FPE L1 DSM
Entries 132892
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

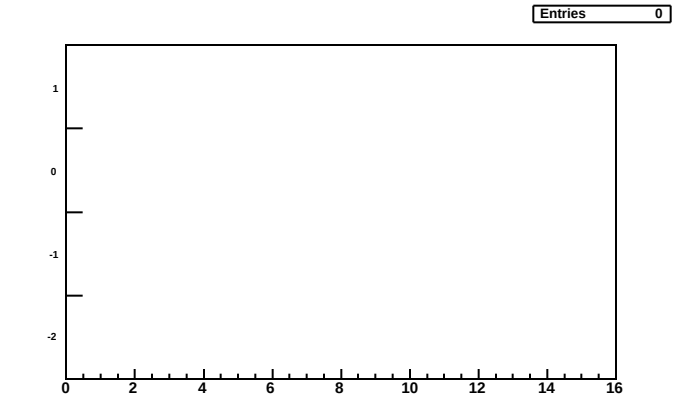

TF201 0-15 (ch0)
Entries 531568
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

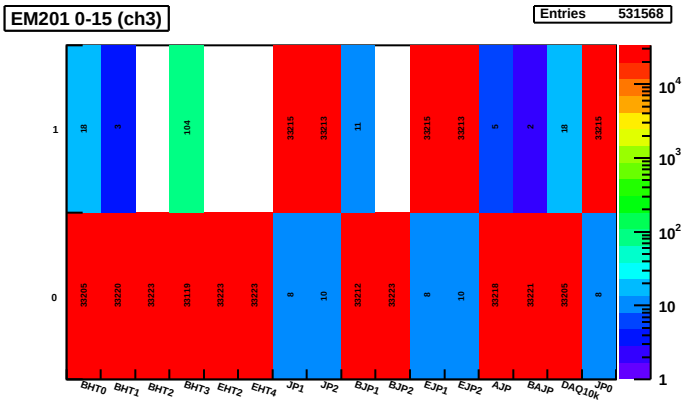

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

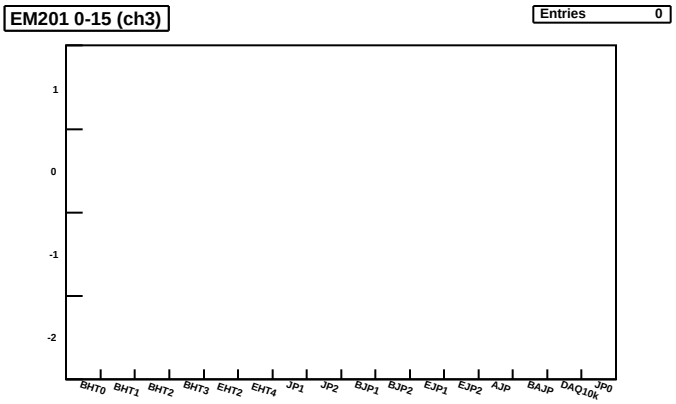

VT201 0-15 (ch1)
Entries 531568
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 47
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

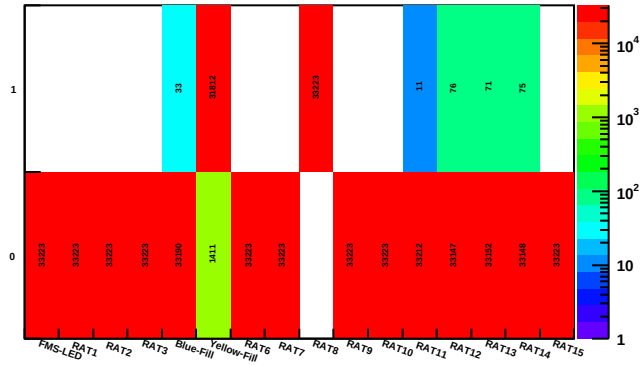

Unused (ch2)
Entries 531568

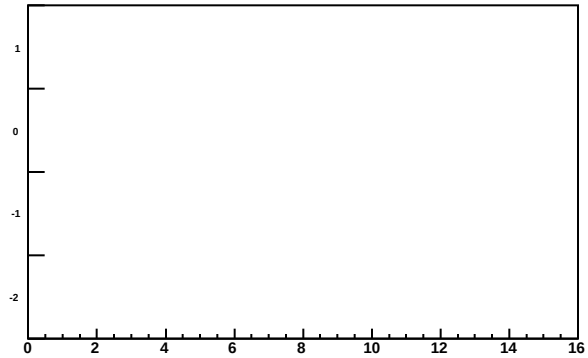

Entries 0


EM201 0-15 (ch3)
Entries 531568
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

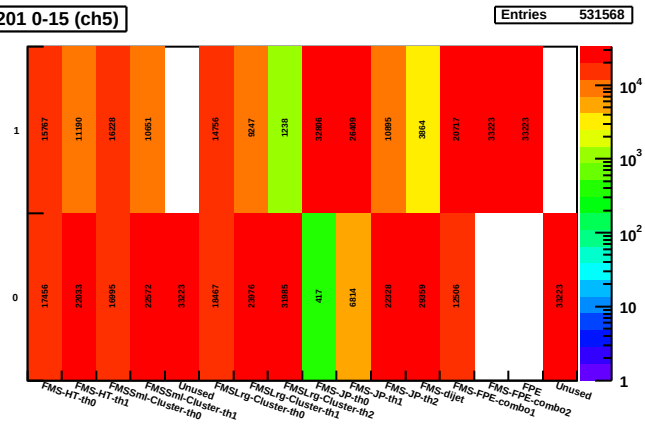

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

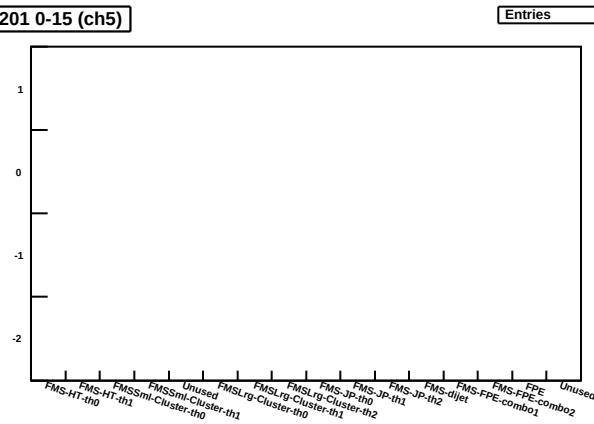




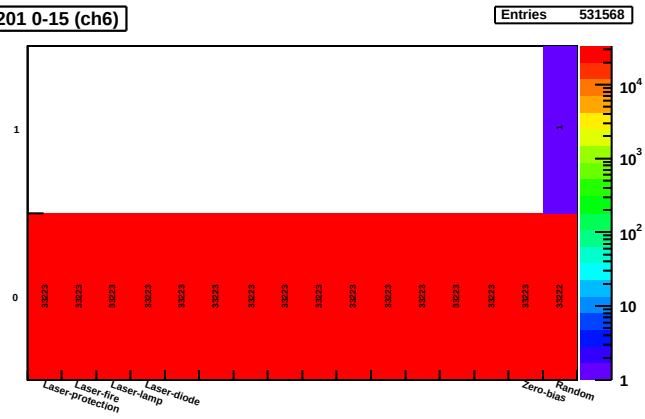
FP201 0-15 (ch5)

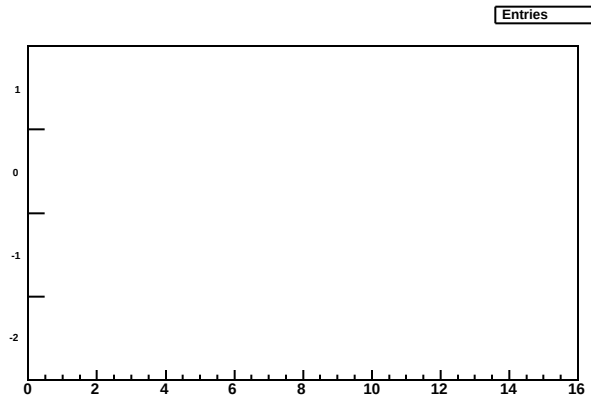
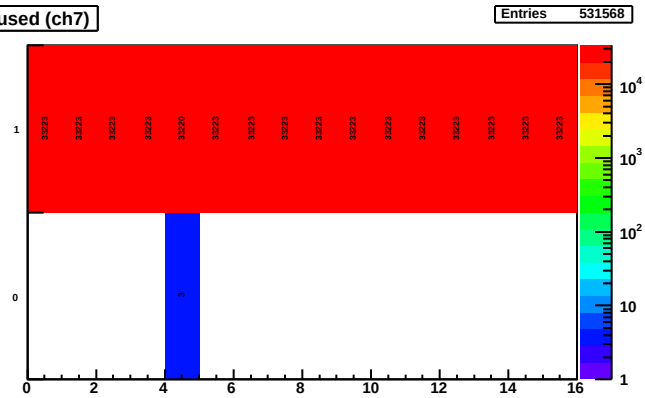
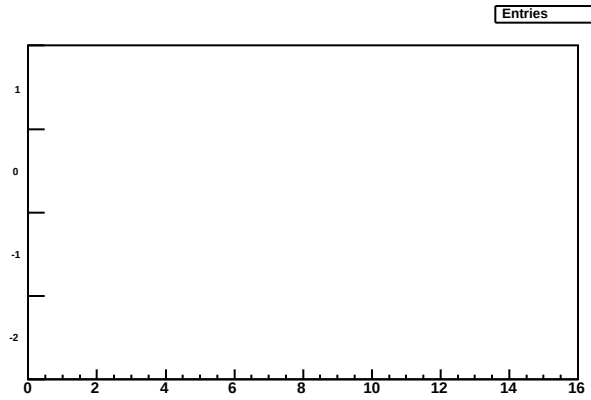


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)