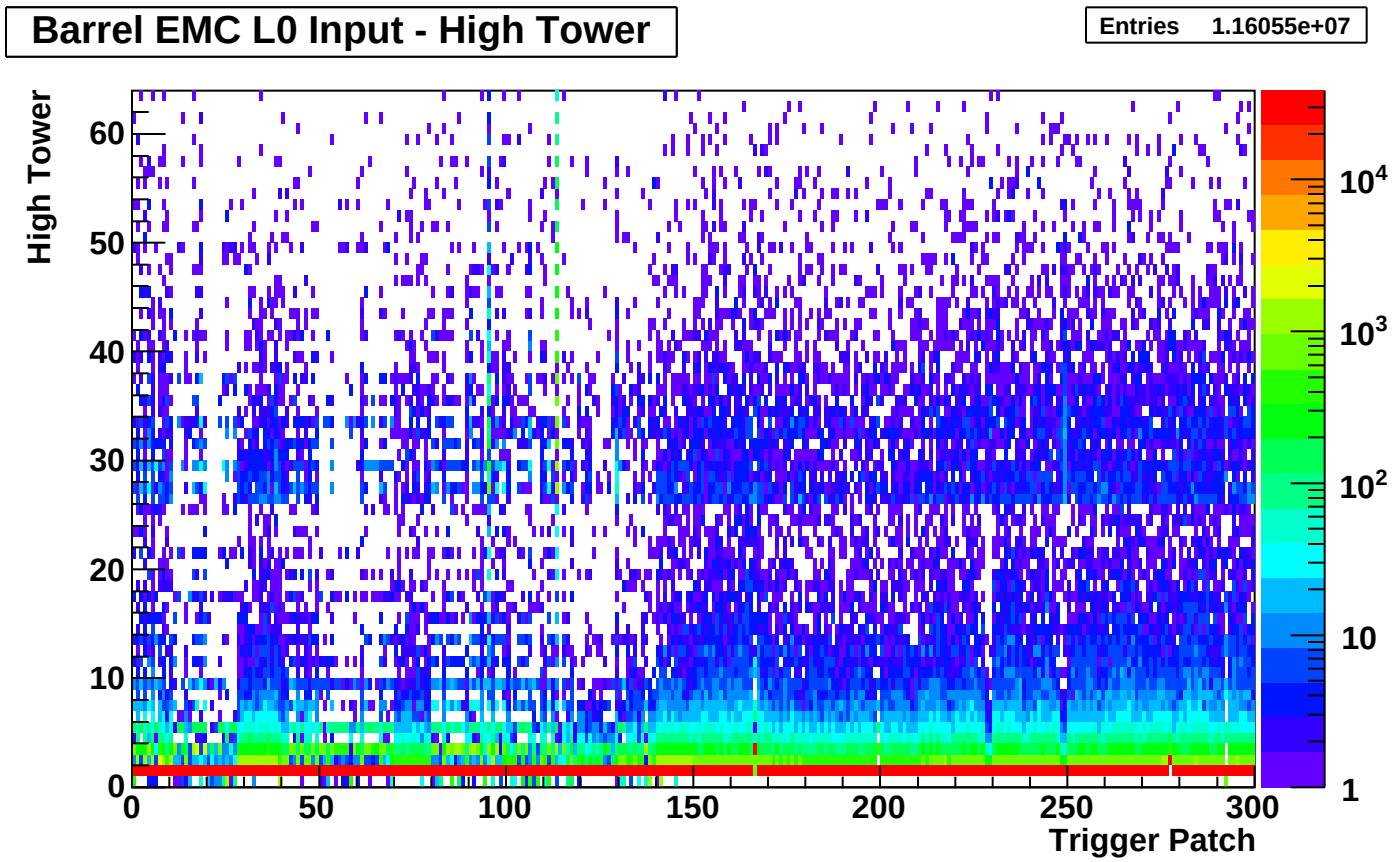
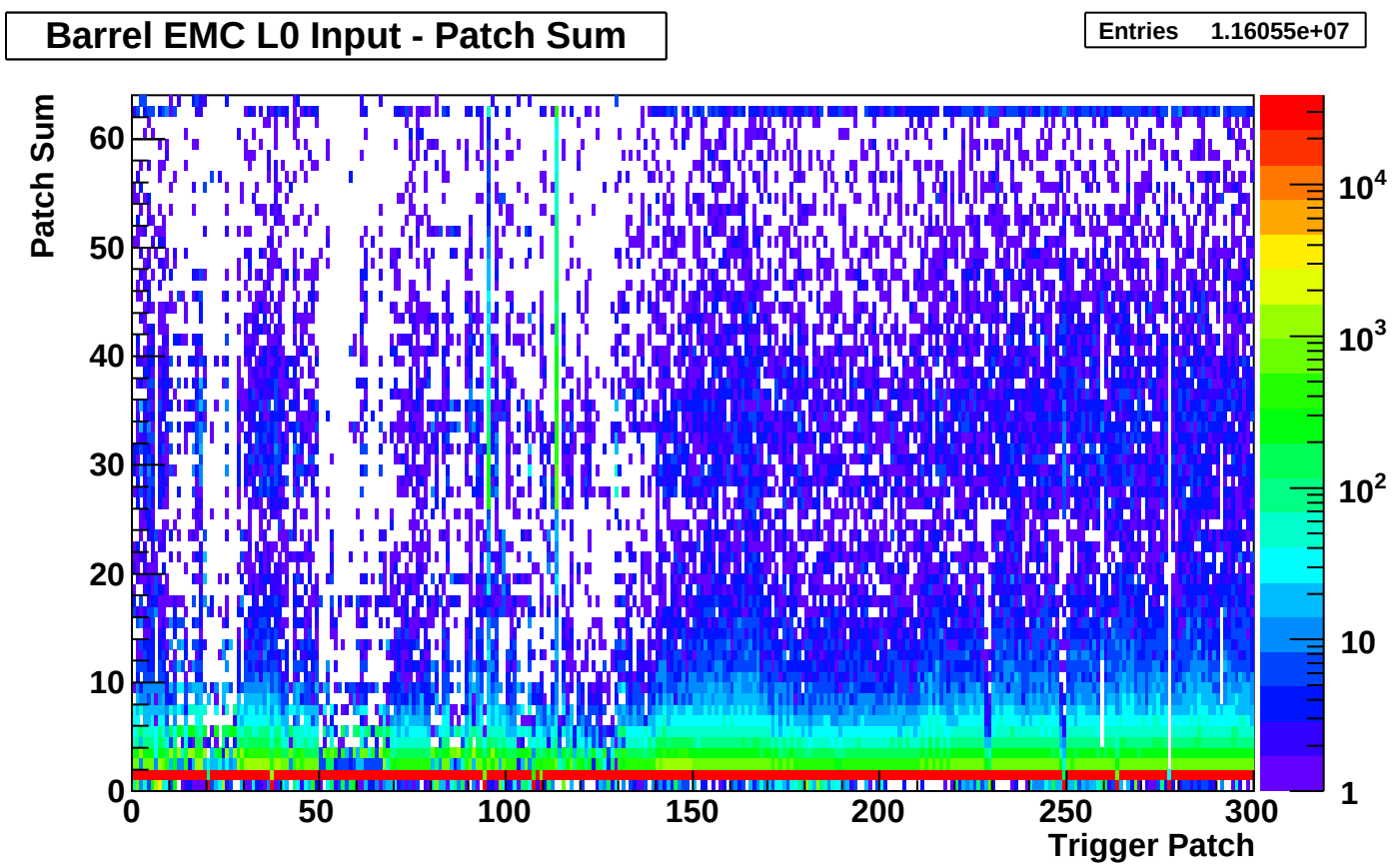
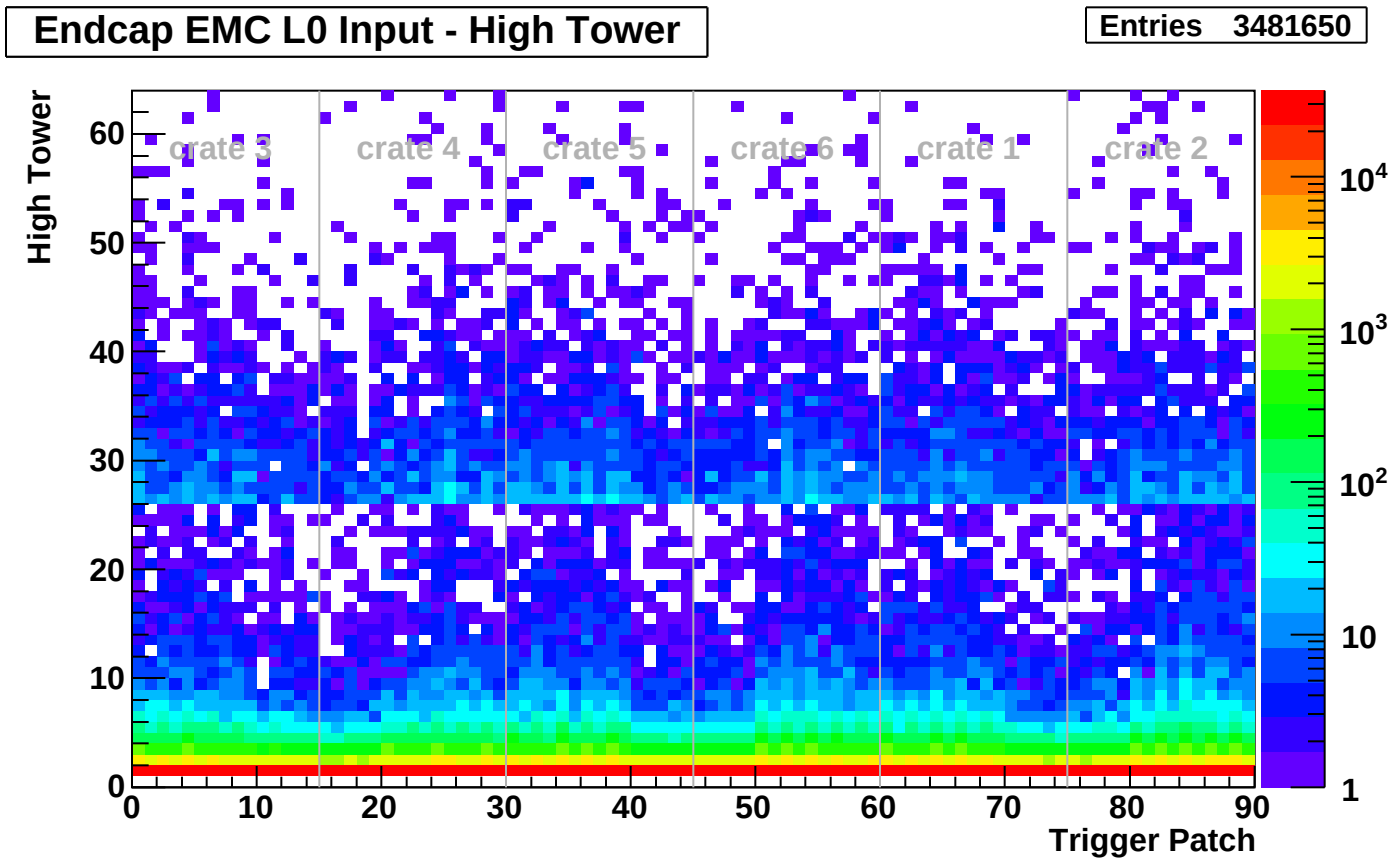
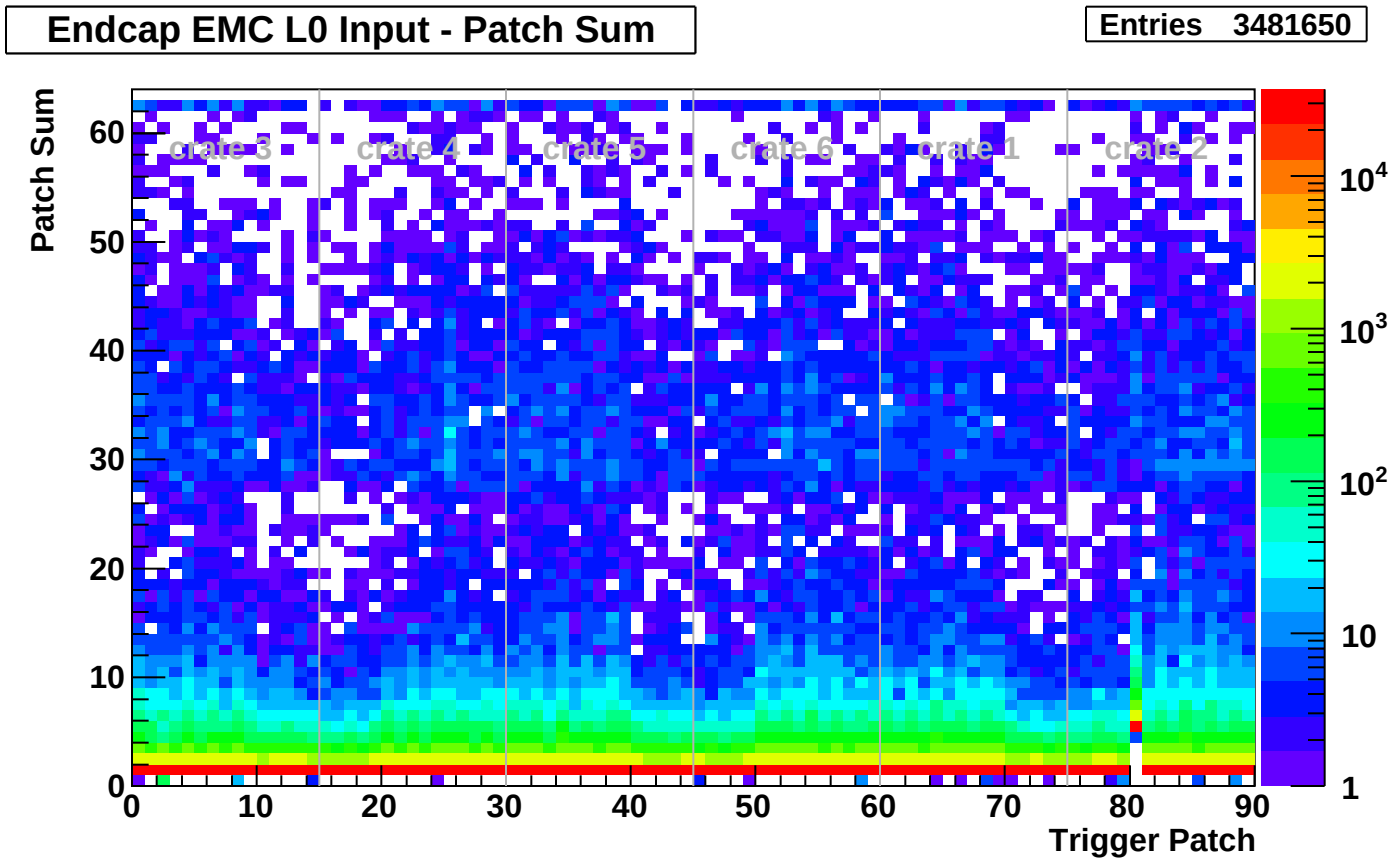
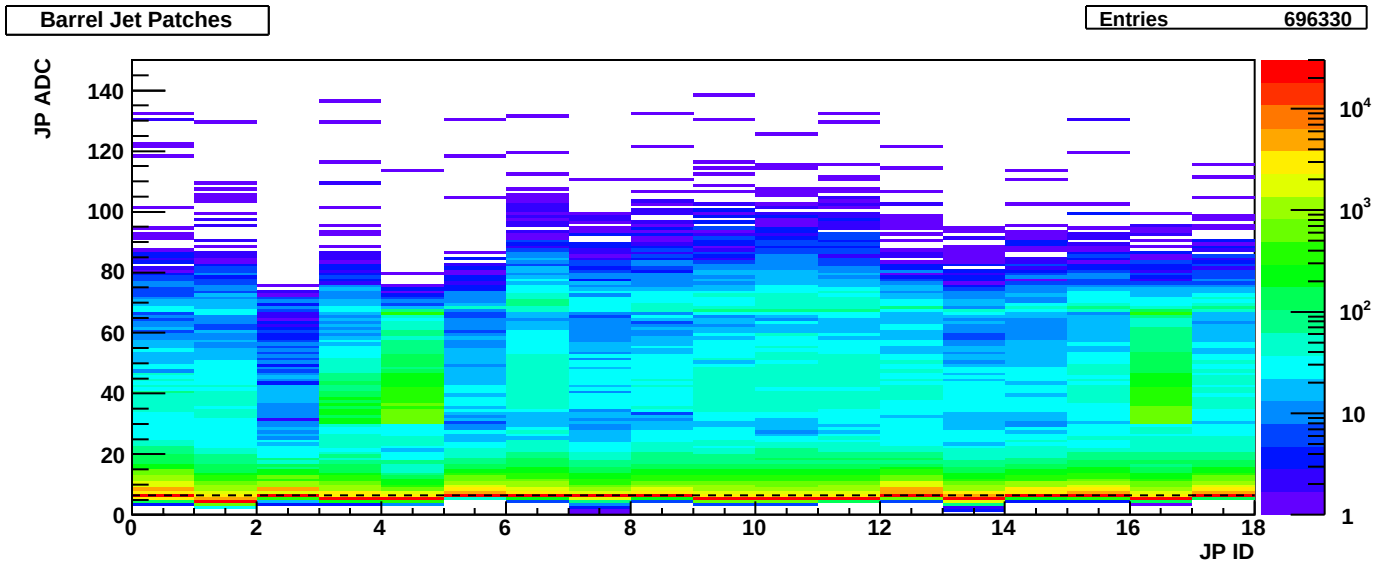
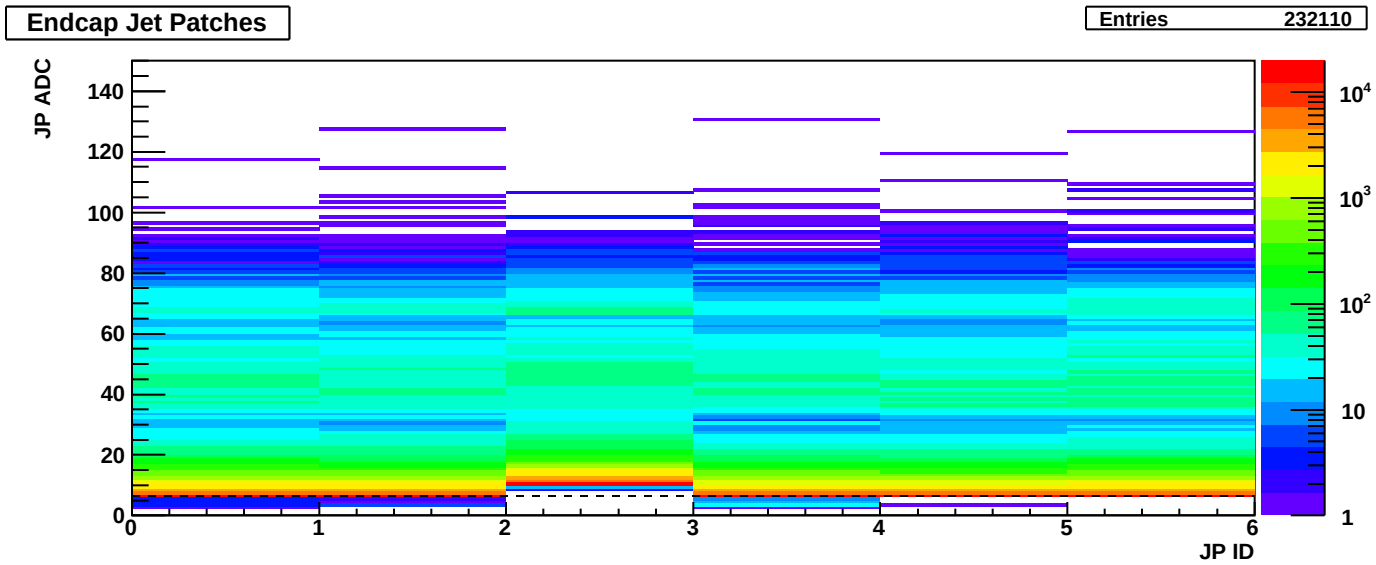

Barrel EMC L0 Input - High Tower
Entries 1.16055e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

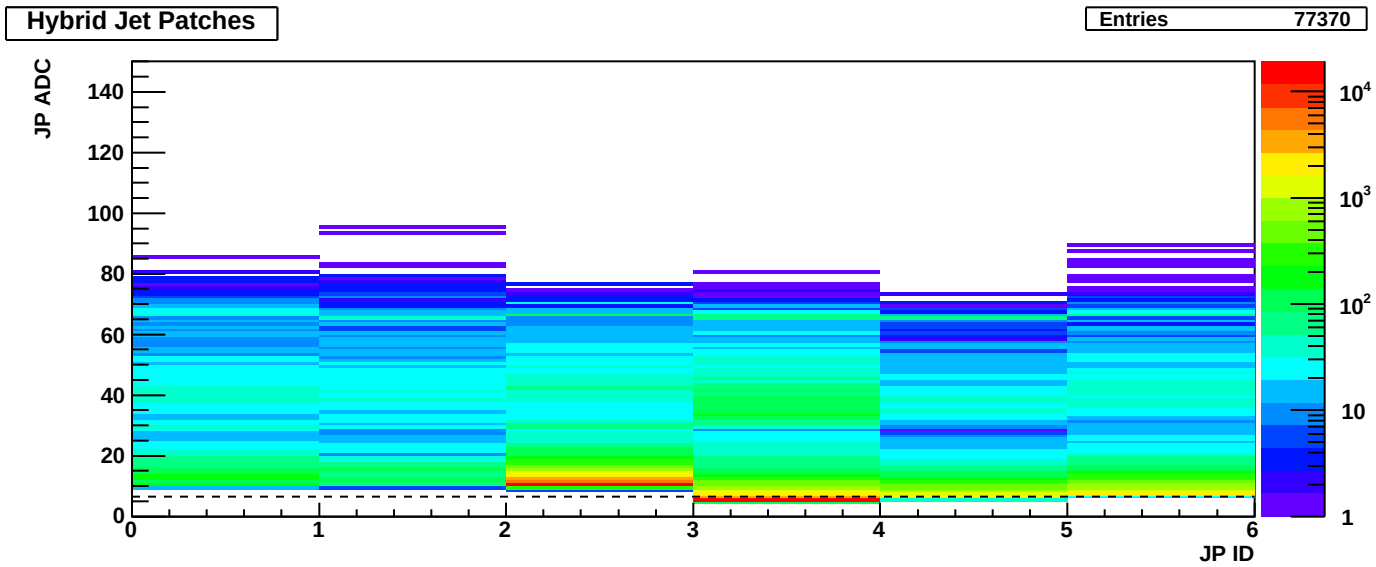

Barrel EMC L0 Input - Patch Sum
Entries 1.16055e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

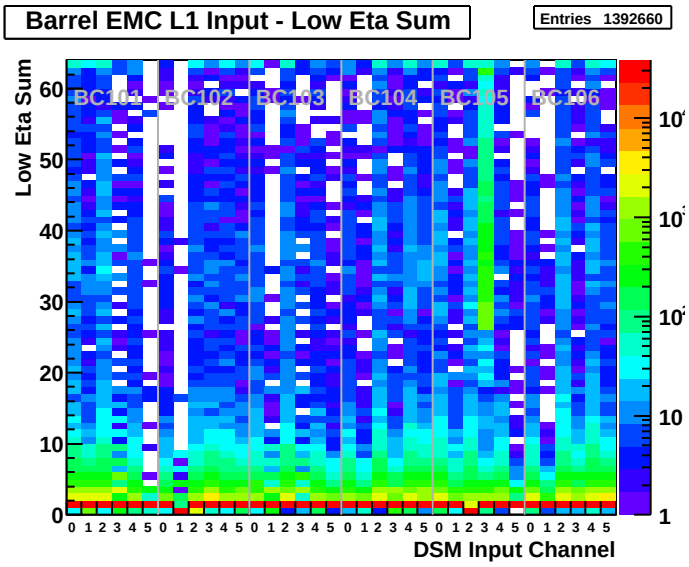

Endcap EMC L0 Input - High Tower
Entries 3481650
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

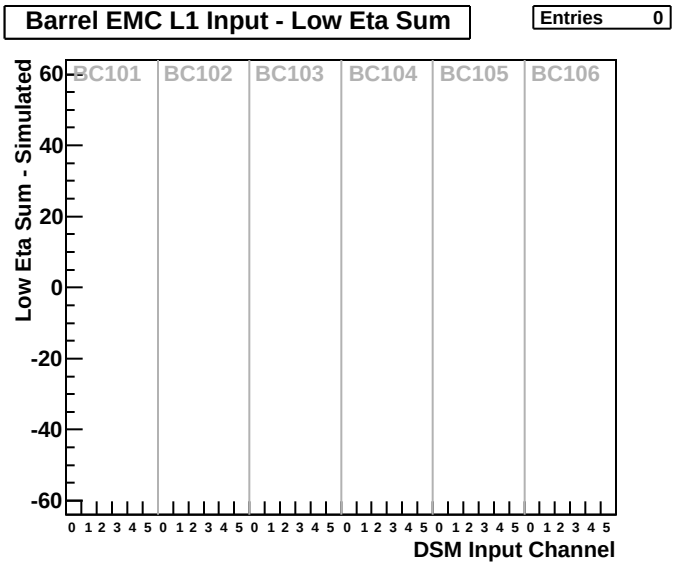

Endcap EMC L0 Input - Patch Sum
Entries 3481650
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

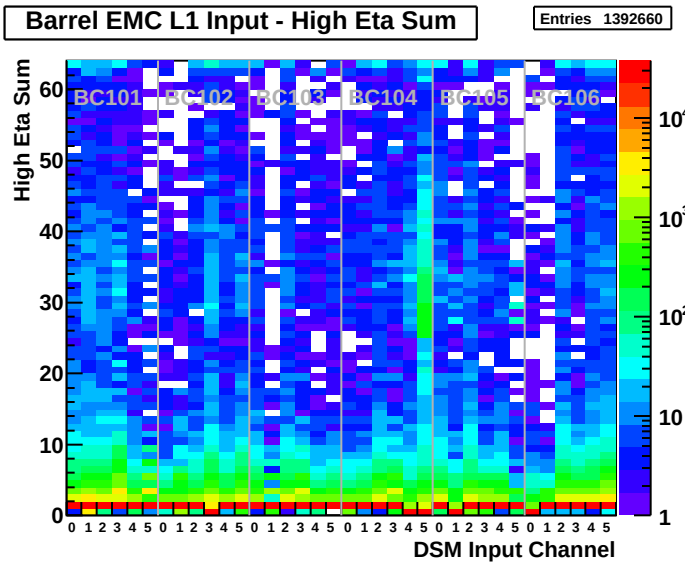

Barrel Jet Patches
Entries 696330
JP ADC
JP ID

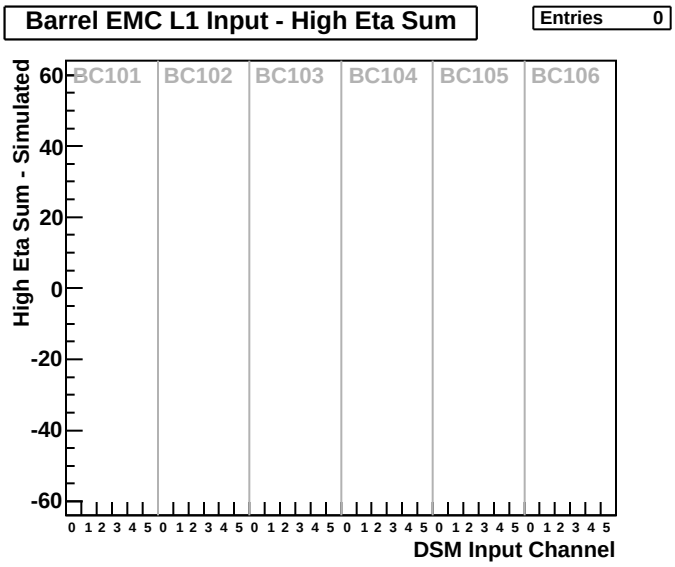

Endcap Jet Patches
Entries 232110
JP ADC
JP ID

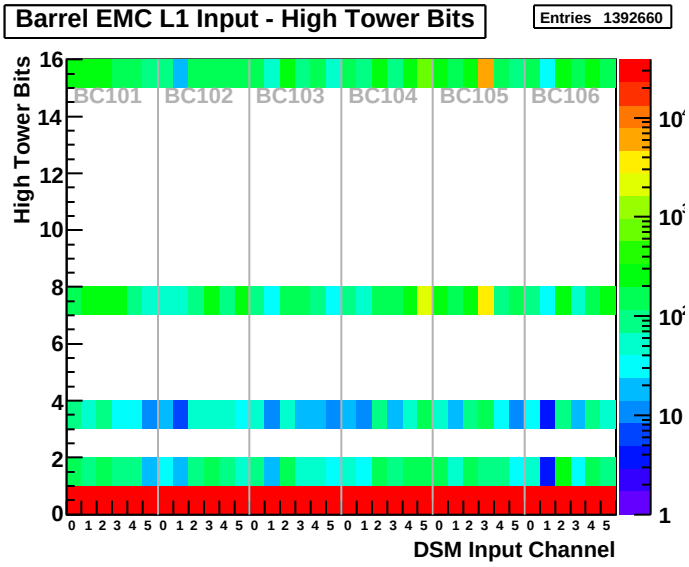

Hybrid Jet Patches
Entries 77370
JP ADC
JP ID

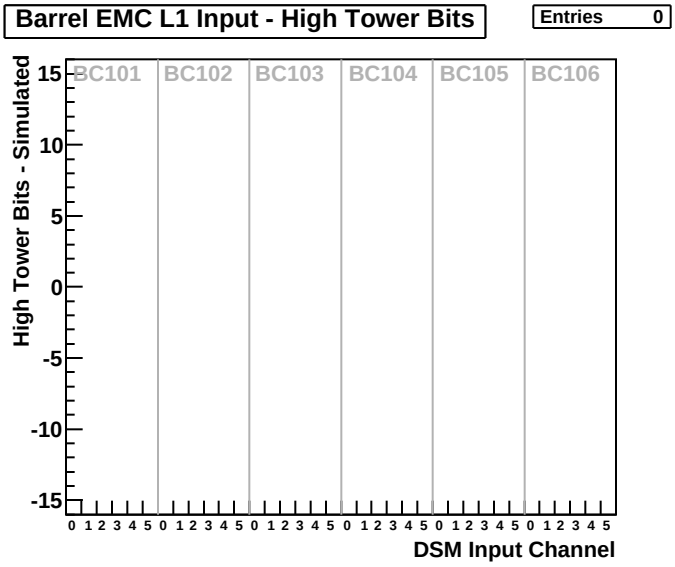

Barrel EMC L1 Input - Low Eta Sum
Entries 1392660
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

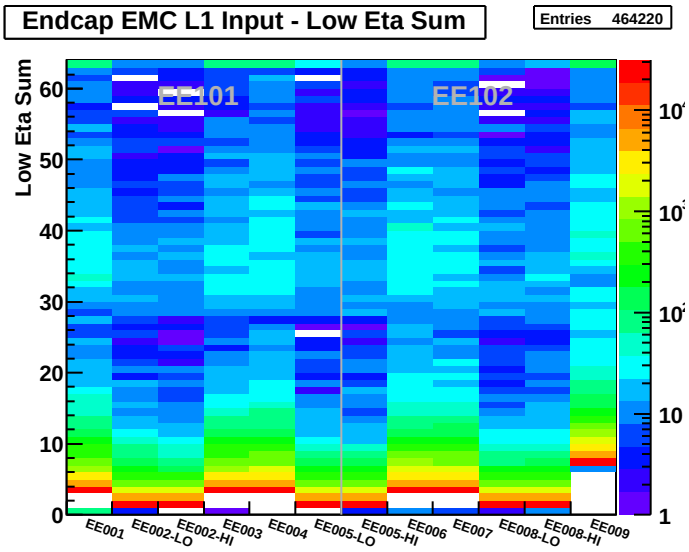

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

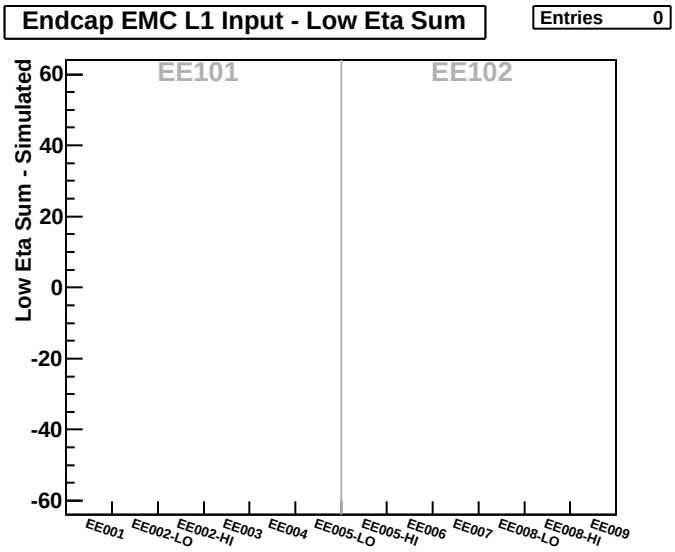

Barrel EMC L1 Input - High Eta Sum
Entries 1392660
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

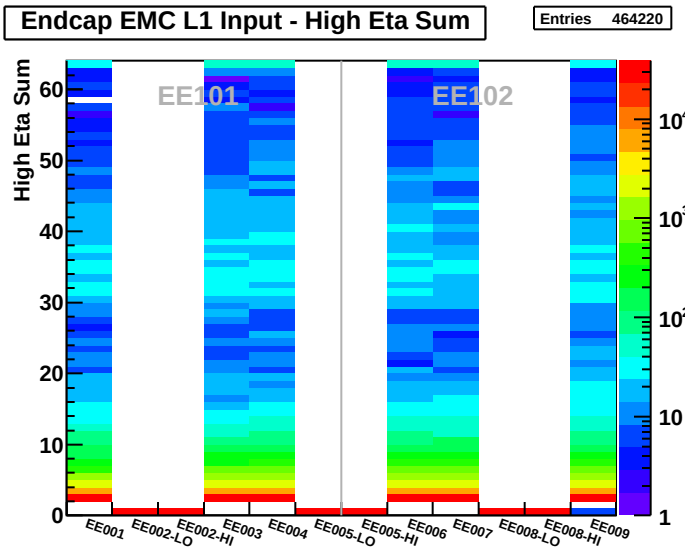

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

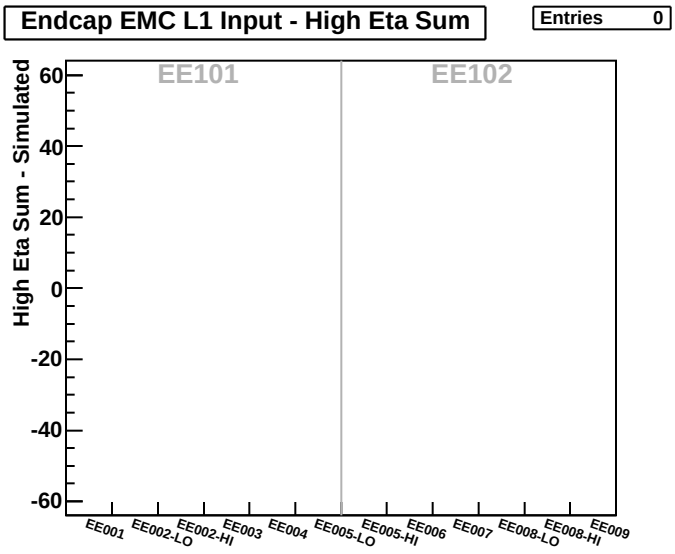

Barrel EMC L1 Input - High Tower Bits
Entries 1392660
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

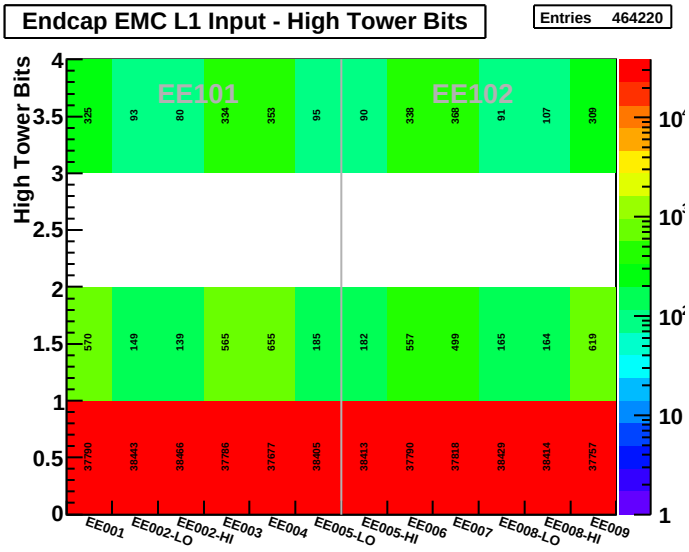

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

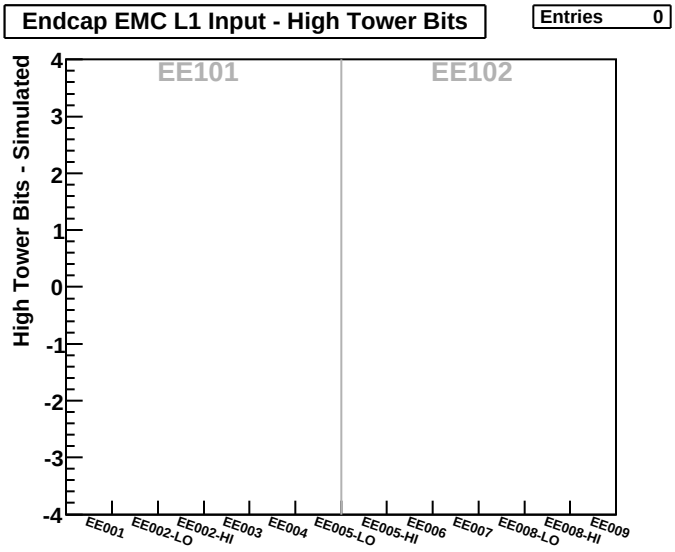

Endcap EMC L1 Input - Low Eta Sum
Entries 464220
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

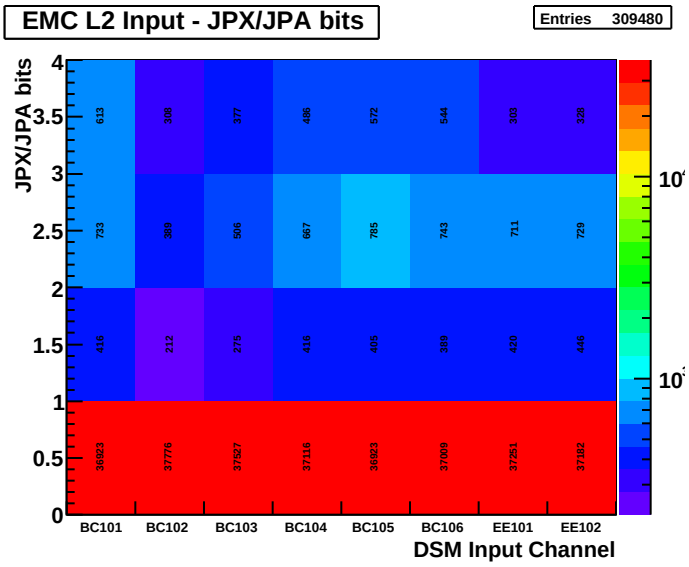

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

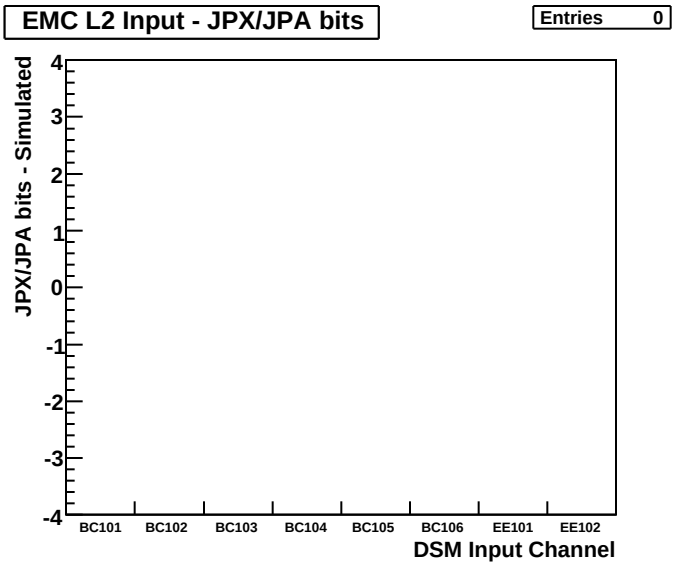

Endcap EMC L1 Input - High Eta Sum
Entries 464220
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

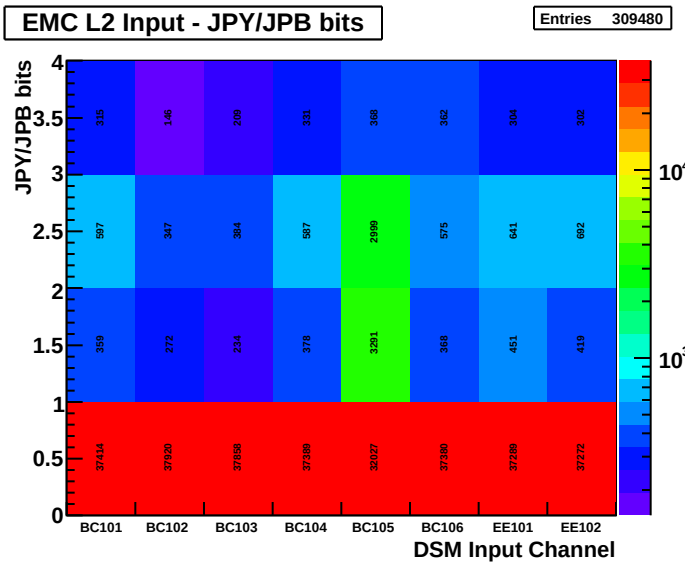

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

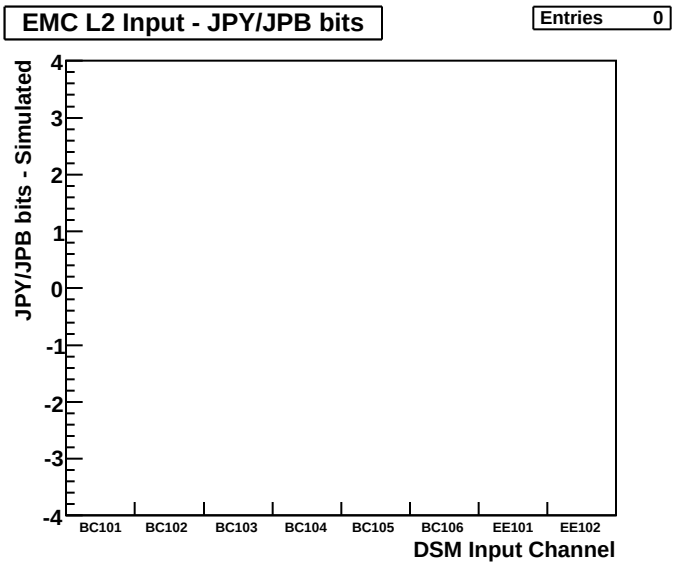

Endcap EMC L1 Input - High Tower Bits
Entries 464220
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

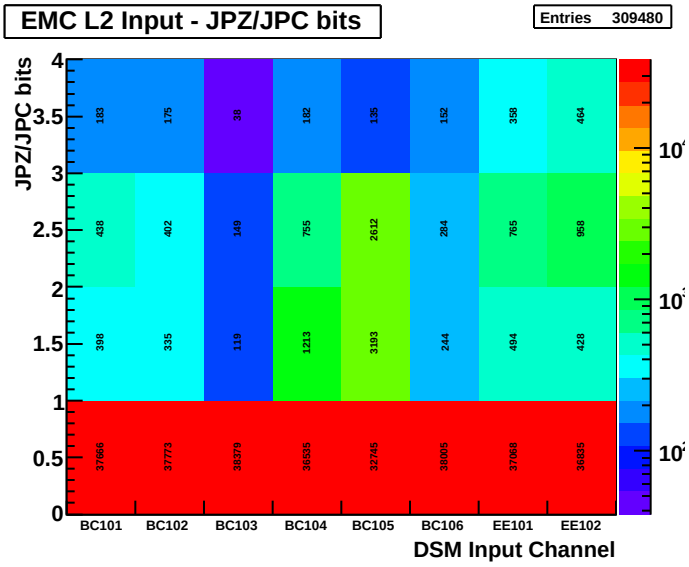

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

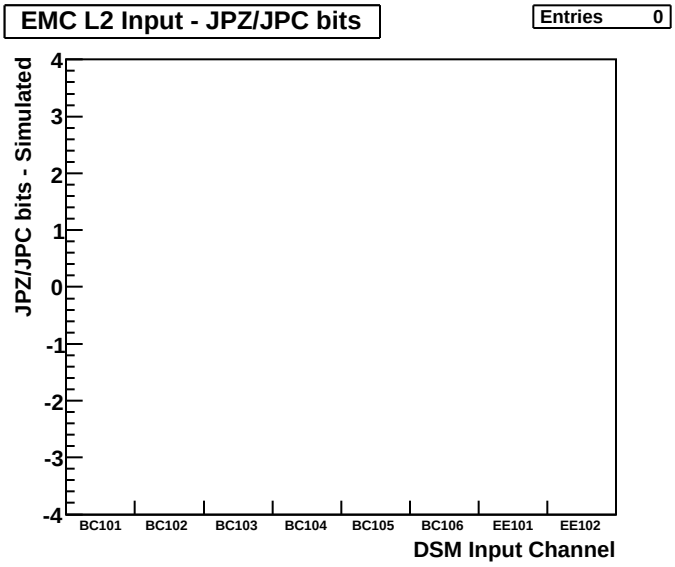

EMC L2 Input - JPX/JPA bits
Entries 309480
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
613 308 377 486 572 544 303 328
733 389 506 667 785 743 711 729
416 212 275 416 405 389 420 446
36923 37776 37527 37116 36923 37009 37251 37182

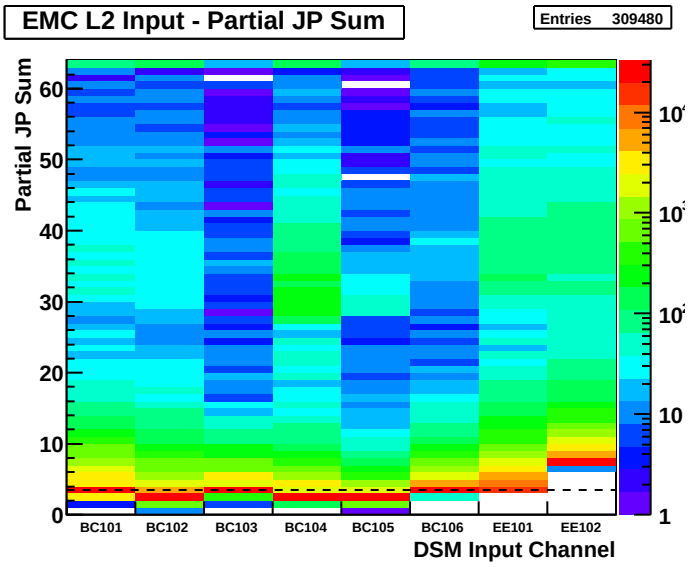

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

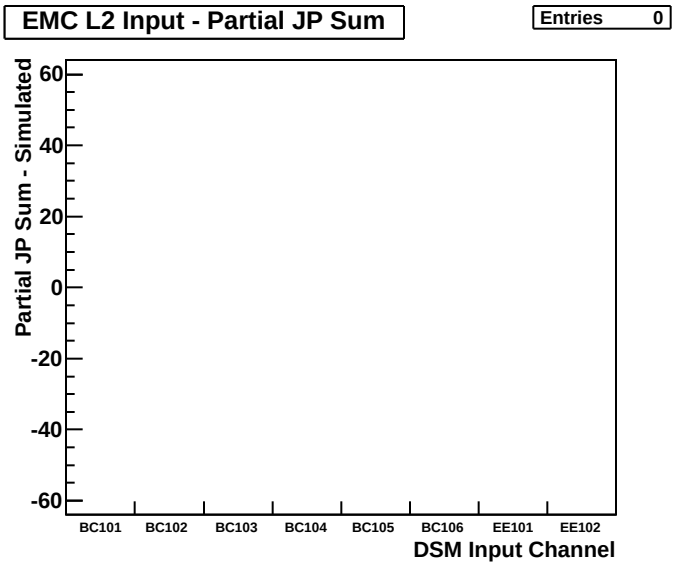

EMC L2 Input - JPY/JPB bits
Entries 309480
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
315 146 209 331 368 362 304 302
597 347 384 587 2999 575 641 692
359 272 234 378 3291 368 451 419
37414 37020 37858 37389 32027 37380 37289 37272

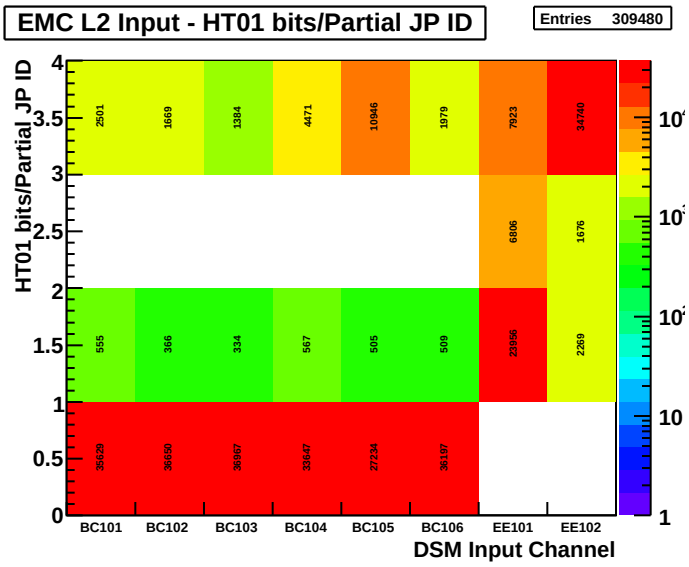

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

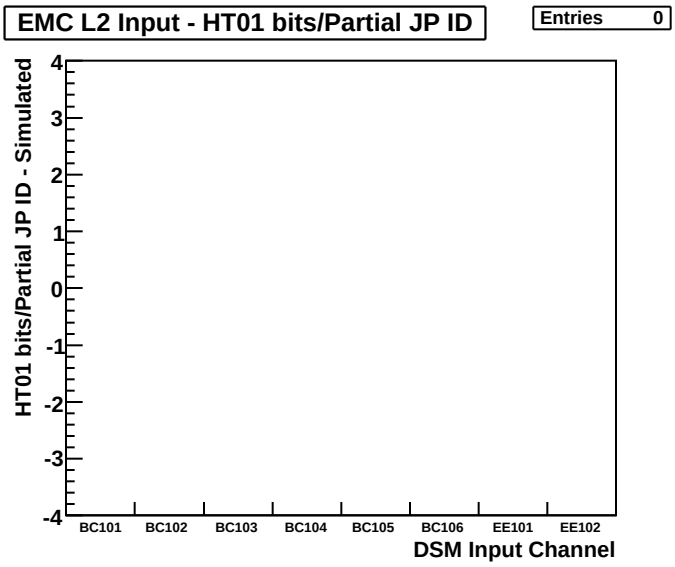

EMC L2 Input - JPZ/JPC bits
Entries 309480
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
183 175 38 182 135 152 358 464
438 402 149 755 2612 284 765 958
398 335 119 1213 3193 244 494 428
37866 37773 38379 36635 32745 38005 37768 36635

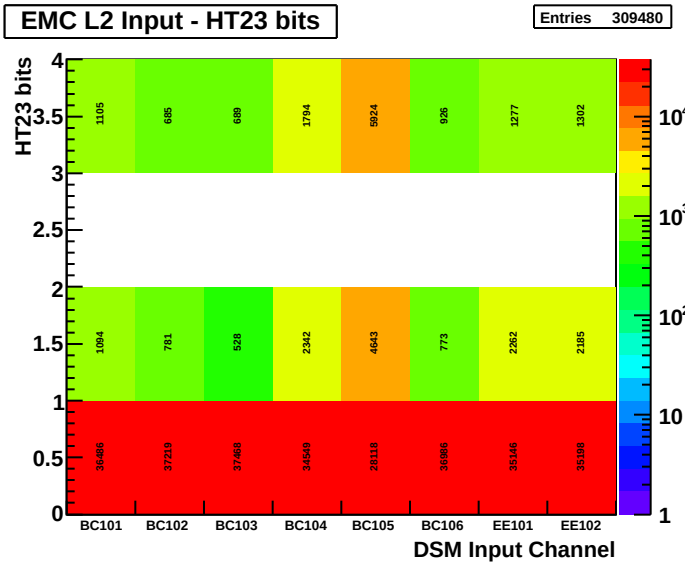

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

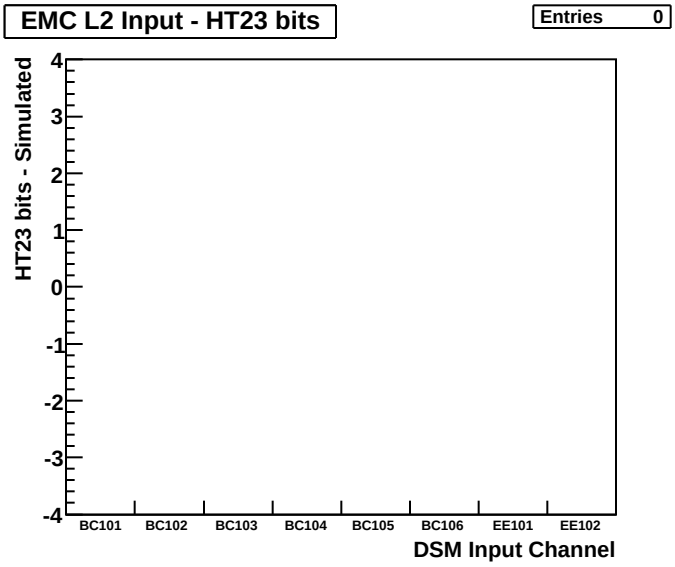

EMC L2 Input - Partial JP Sum
Entries 309480
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

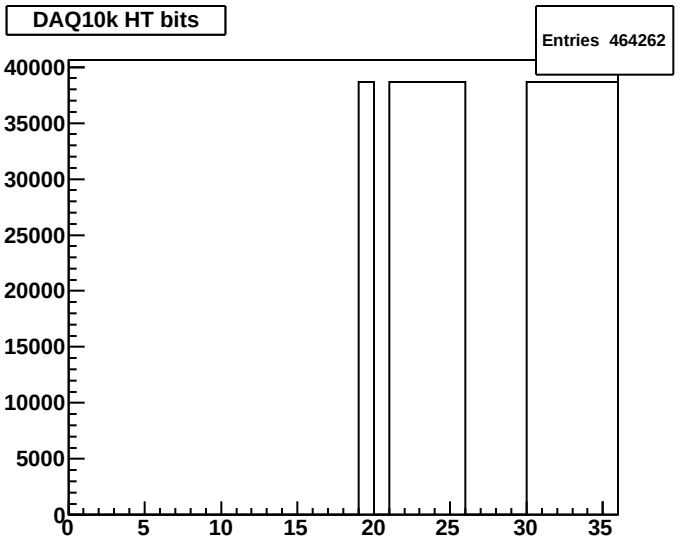

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

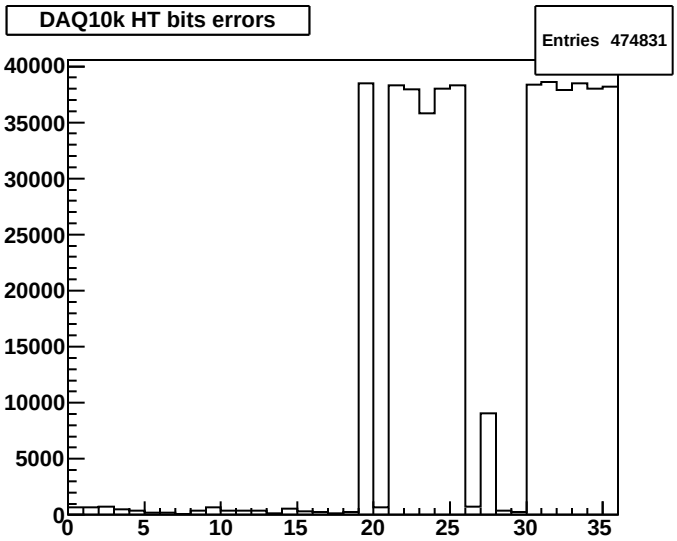

EMC L2 Input - HT01 bits/Partial JP ID
Entries 309480
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

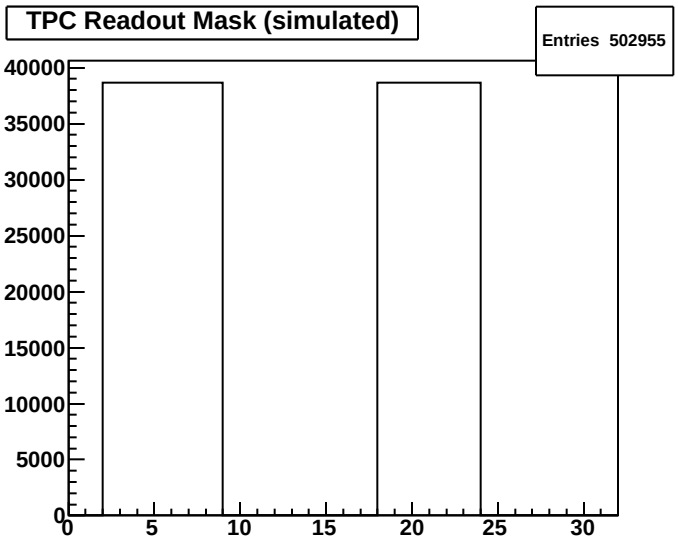

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

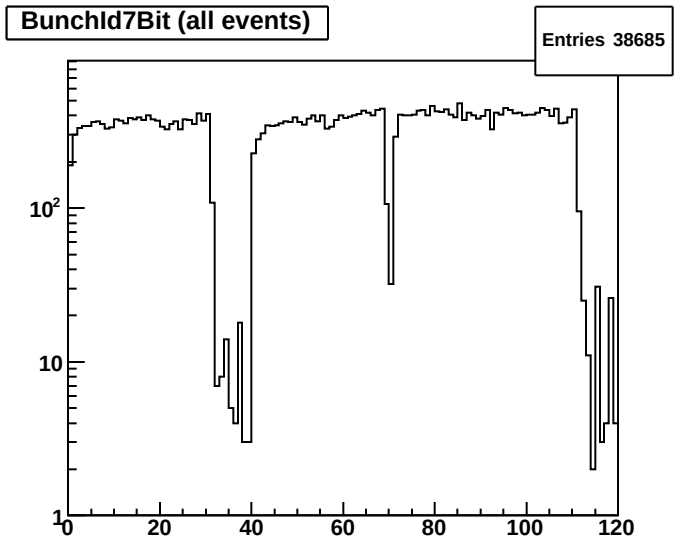

EMC L2 Input - HT23 bits
Entries 309480
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

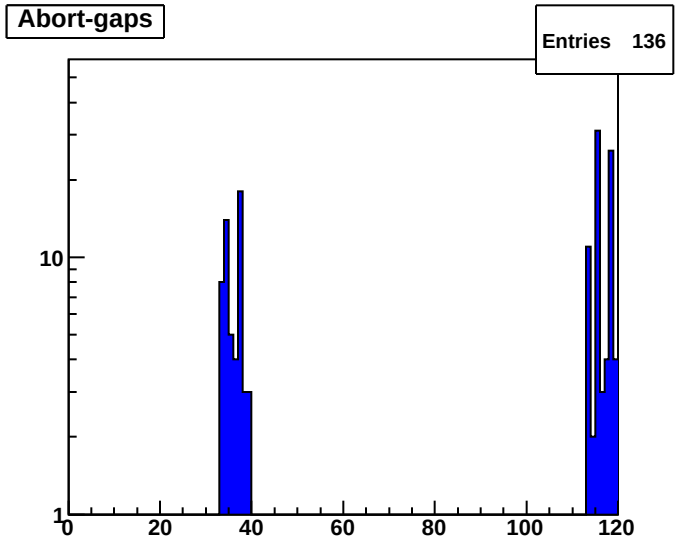

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

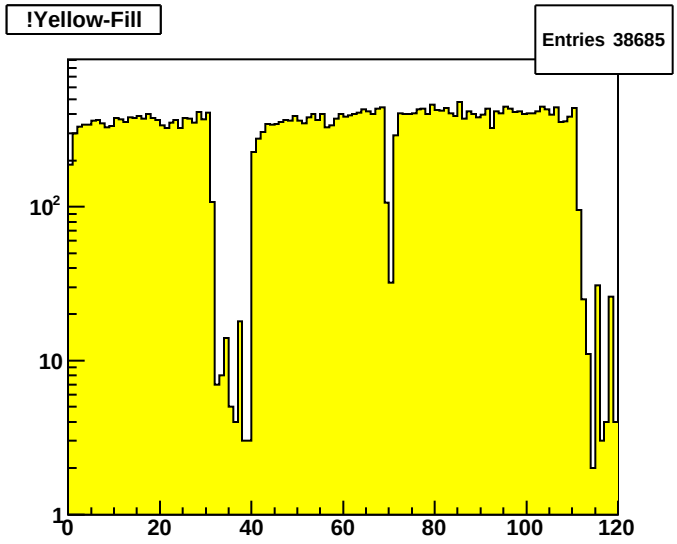

DAQ10k HT bits
Entries 464262

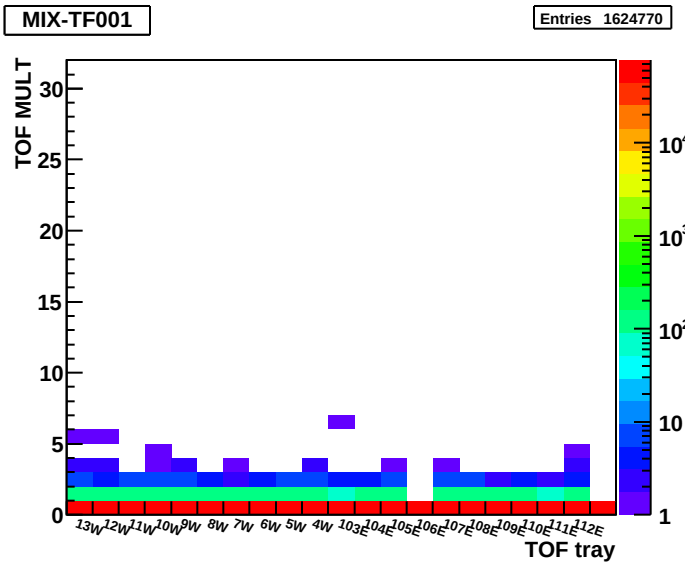

DAQ10k HT bits errors
Entries 474831

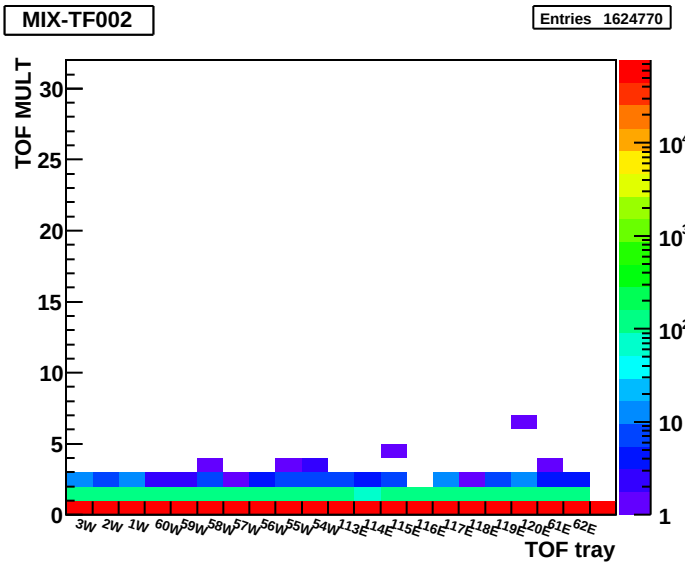

TPC Readout Mask (simulated)
Entries 502955

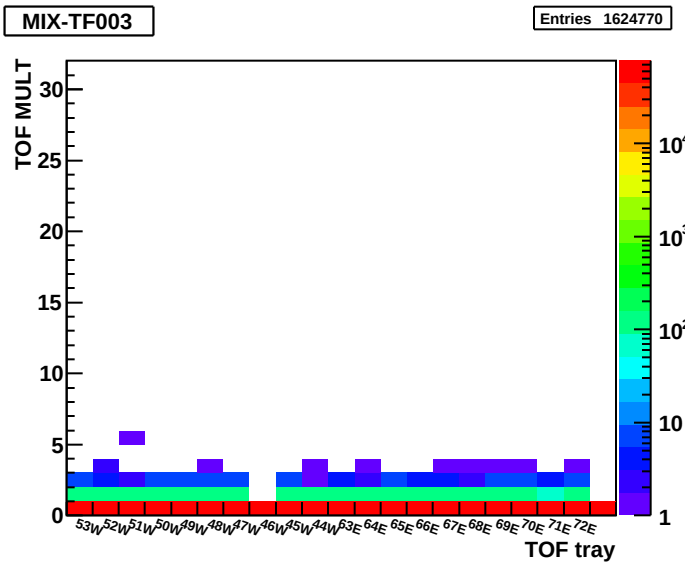

BunchId7Bit (all events)
Entries 38685

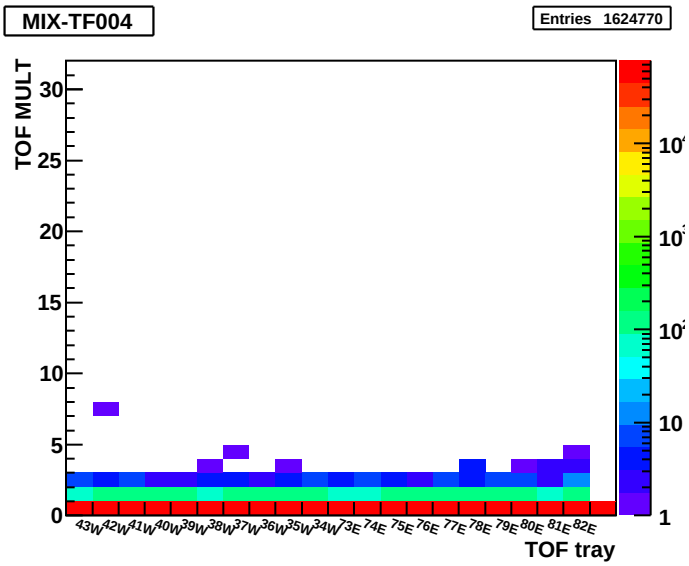

Abort-gaps
Entries 136

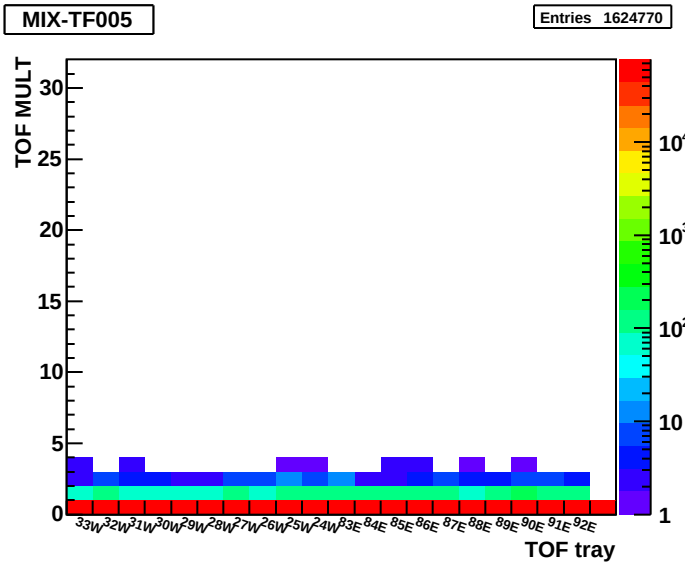

!Yellow-Fill
Entries 38685

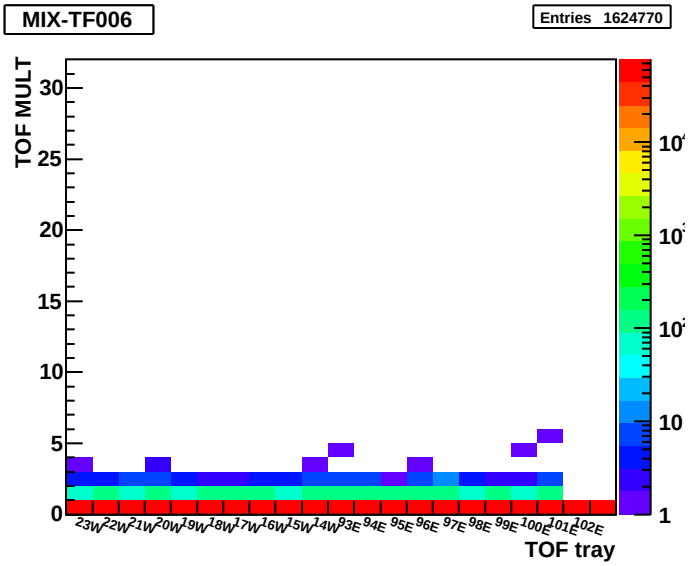

MIX-TF001
Entries 1624770
TOF MULT
TOF tray

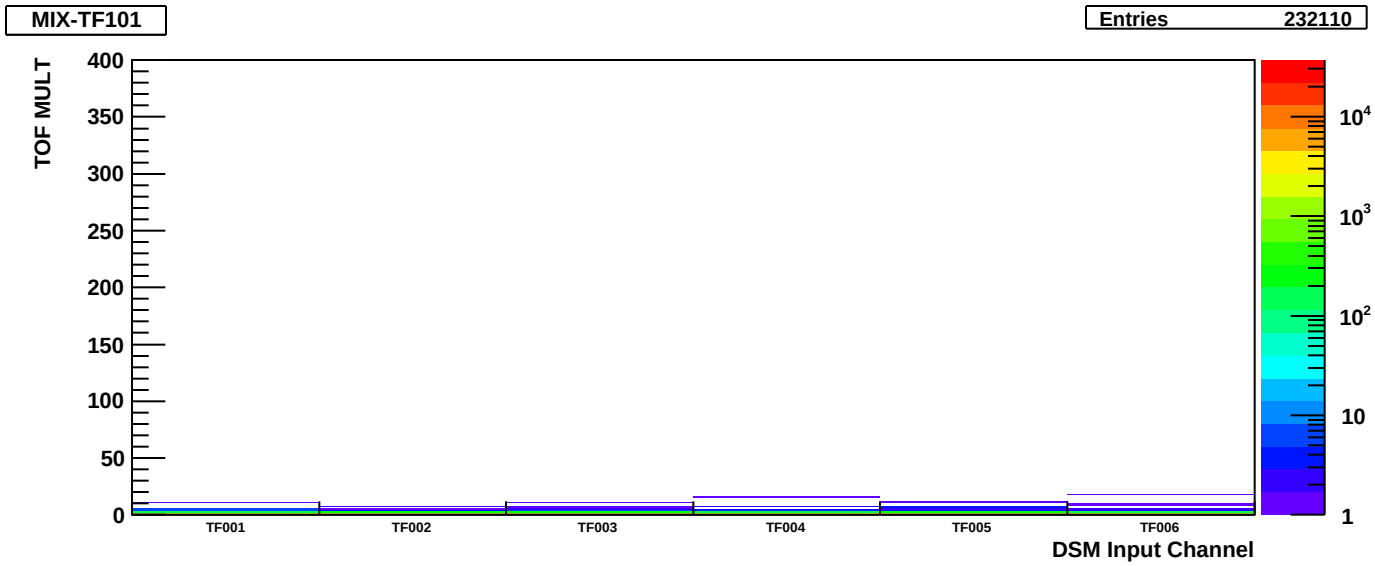

MIX-TF002
Entries 1624770
TOF MULT
TOF tray

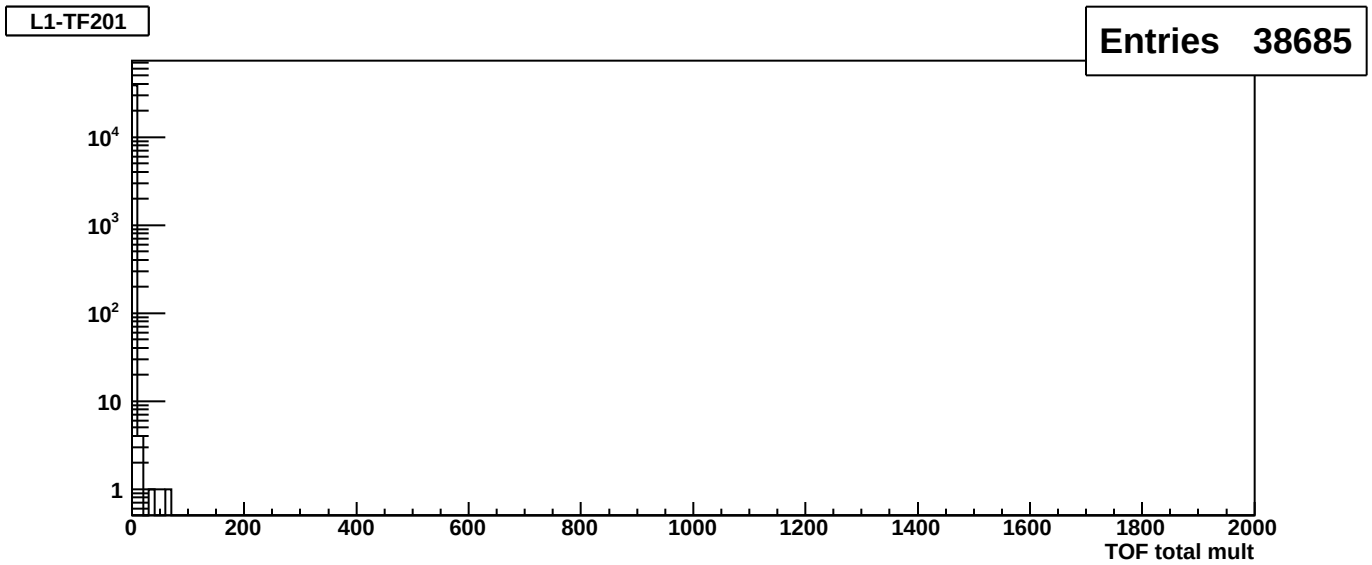

MIX-TF003
Entries 1624770
TOF MULT
TOF tray

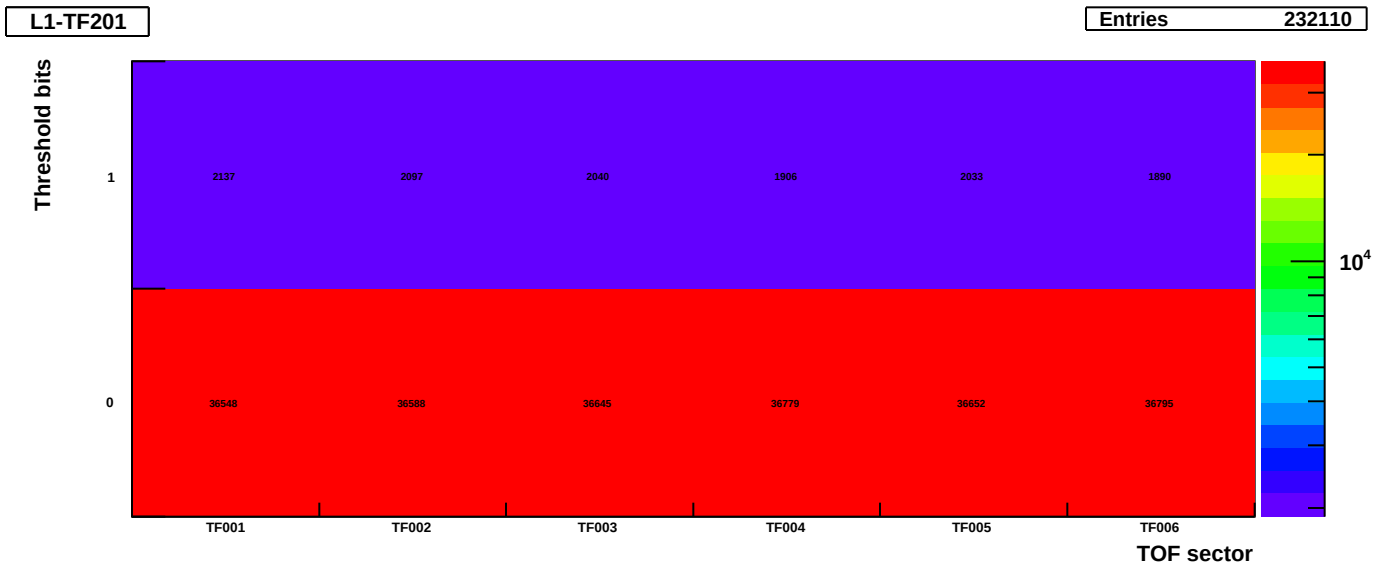

MIX-TF004
Entries 1624770
TOF MULT
TOF tray

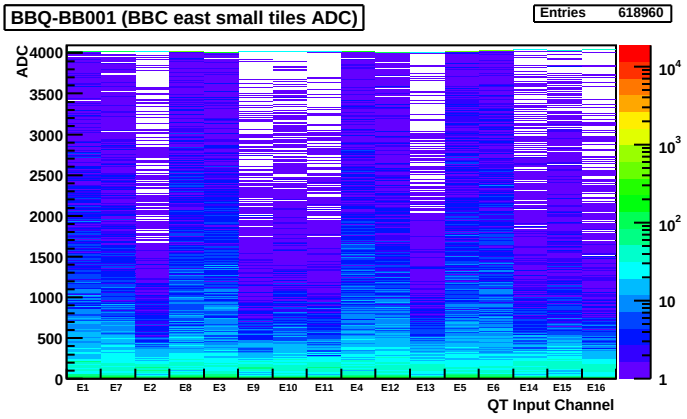

MIX-TF005
Entries 1624770
TOF MULT
TOF tray

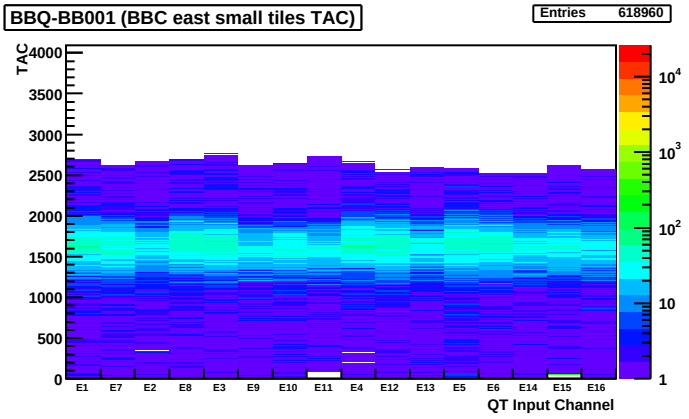

MIX-TF006
Entries 1624770
TOF MULT
TOF tray

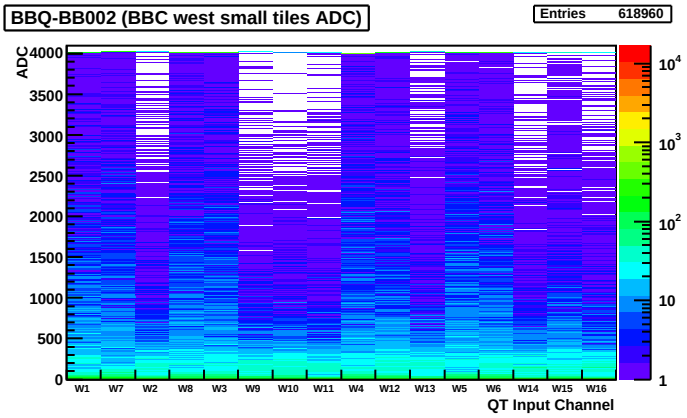

MIX-TF101
Entries 232110
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

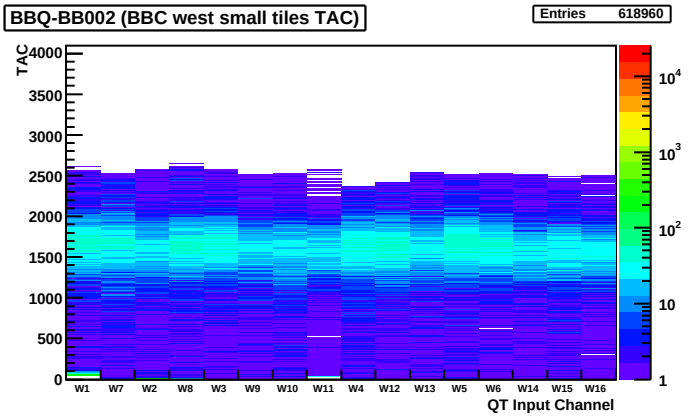

L1-TF201
Entries 38685
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

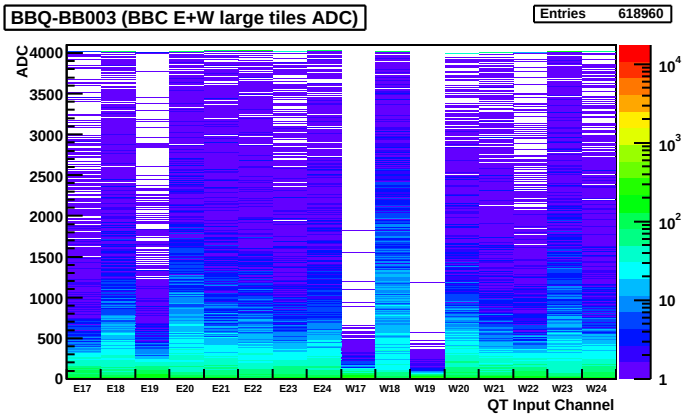

L1-TF201
Entries 232110
Threshold bits
1
0
2137
2097
2040
1906
2033
1890
36548
36588
36645
36779
36652
36795
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

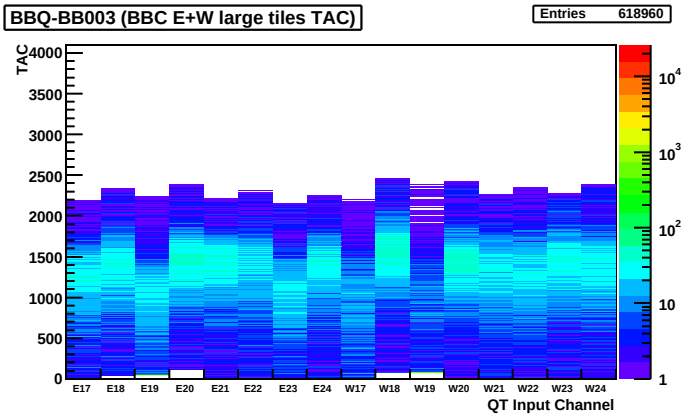

BBQ-BB001 (BBC east small tiles ADC)
Entries 618960
ADC
QT Input Channel

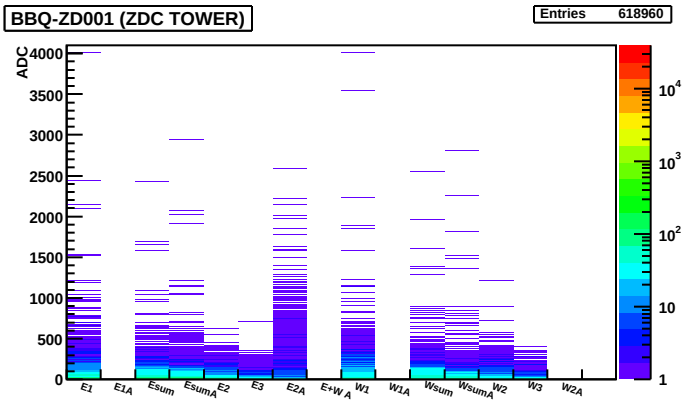

BBQ-BB001 (BBC east small tiles TAC)
Entries 618960
TAC
QT Input Channel

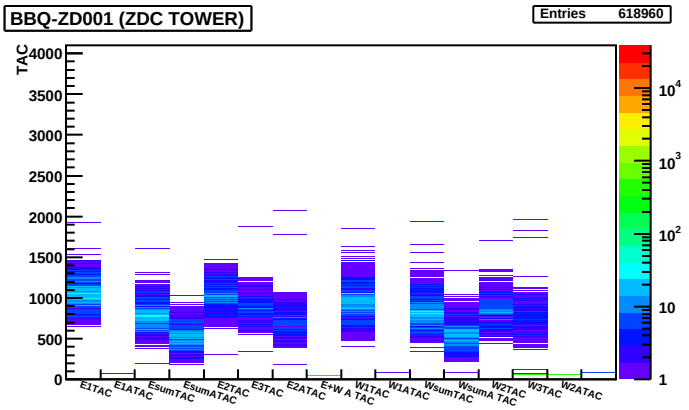

BBQ-BB002 (BBC west small tiles ADC)
Entries 618960
ADC
QT Input Channel

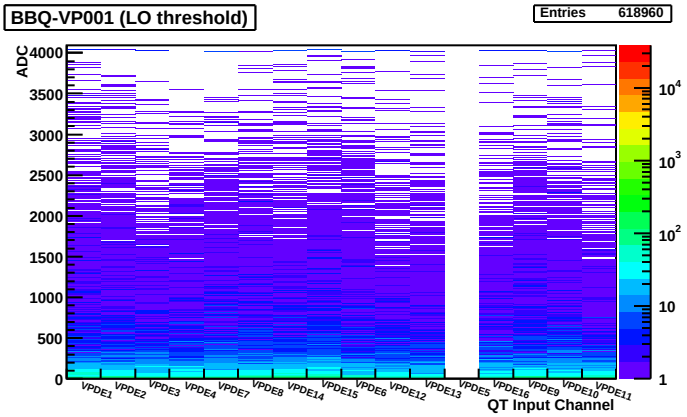

BBQ-BB002 (BBC west small tiles TAC)
Entries 618960
TAC
QT Input Channel

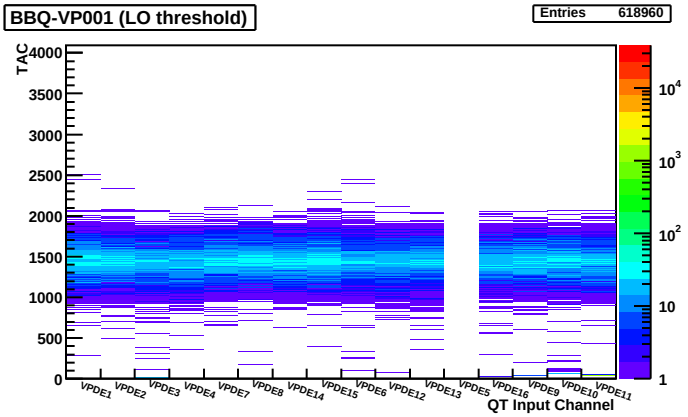

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 618960
ADC
QT Input Channel

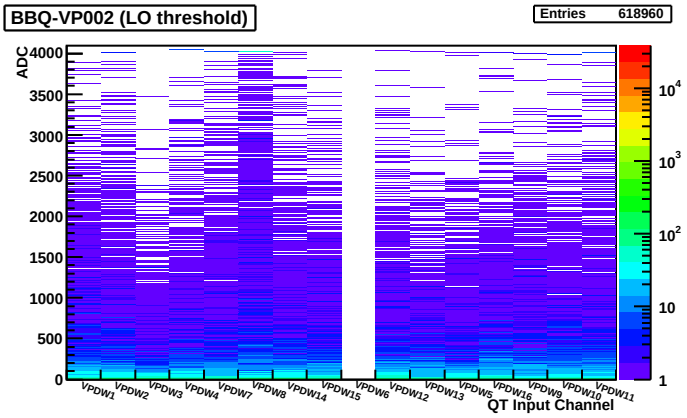

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 618960
TAC
QT Input Channel

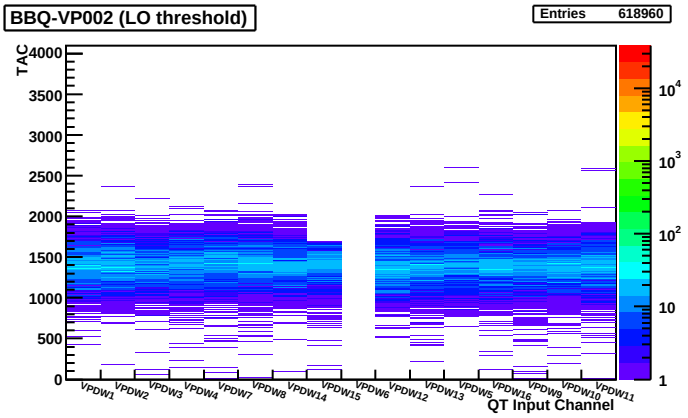

BBQ-ZD001 (ZDC TOWER)
Entries 618960
ADC

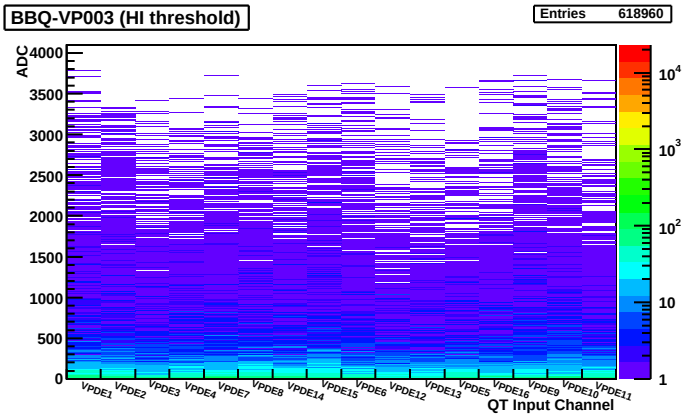

BBQ-ZD001 (ZDC TOWER)
Entries 618960
TAC

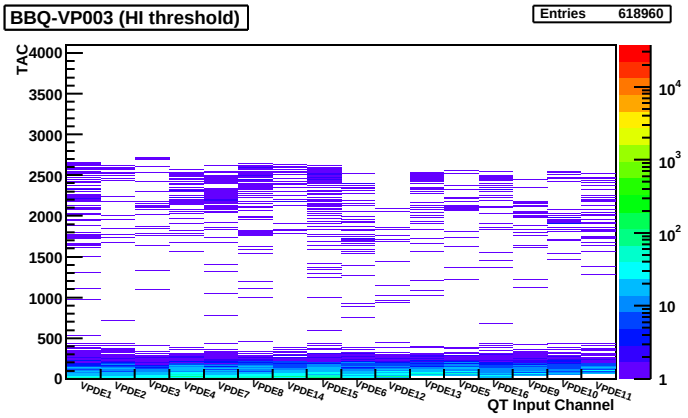

BBQ-VP001 (LO threshold)
Entries 618960
ADC
QT Input Channel

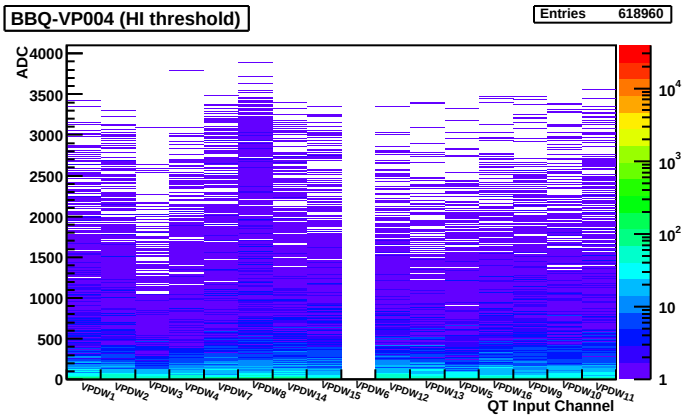

BBQ-VP001 (LO threshold)
Entries 618960
TAC
QT Input Channel

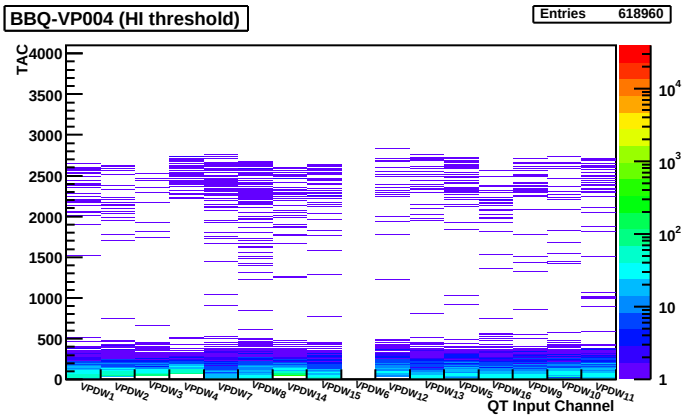

BBQ-VP002 (LO threshold)
Entries 618960
ADC
QT Input Channel

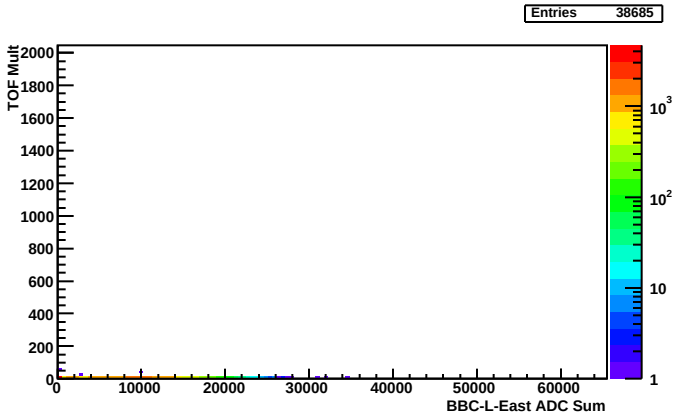

BBQ-VP002 (LO threshold)
Entries 618960
TAC
QT Input Channel

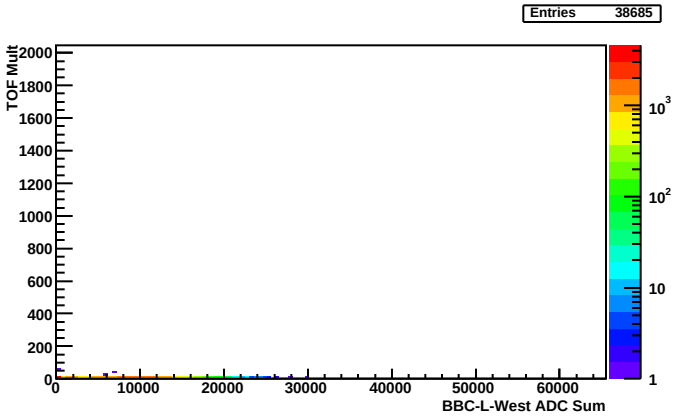

BBQ-VP003 (HI threshold)
Entries 618960
ADC
QT Input Channel

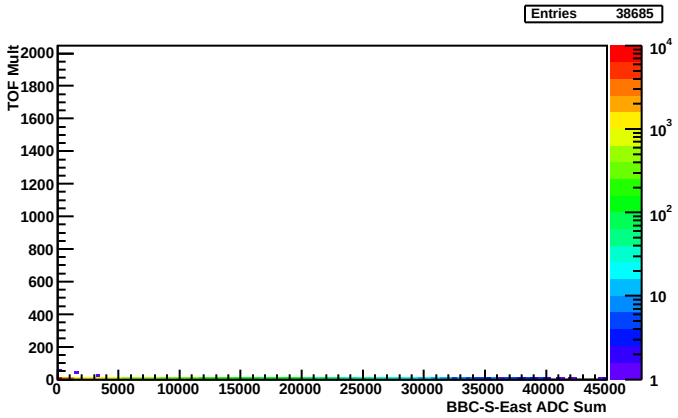

BBQ-VP003 (HI threshold)
Entries 618960
TAC
QT Input Channel

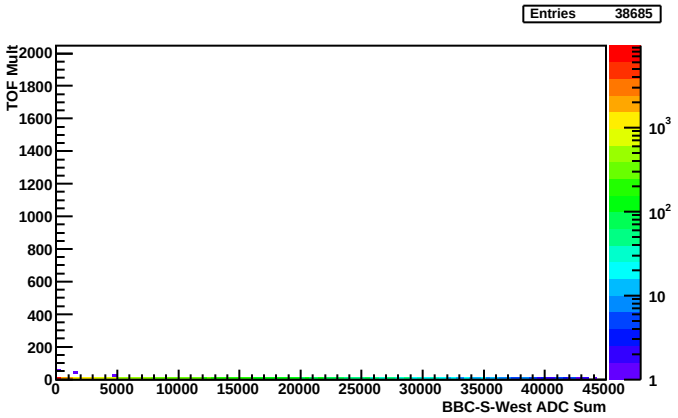

BBQ-VP004 (HI threshold)
Entries 618960
ADC
QT Input Channel

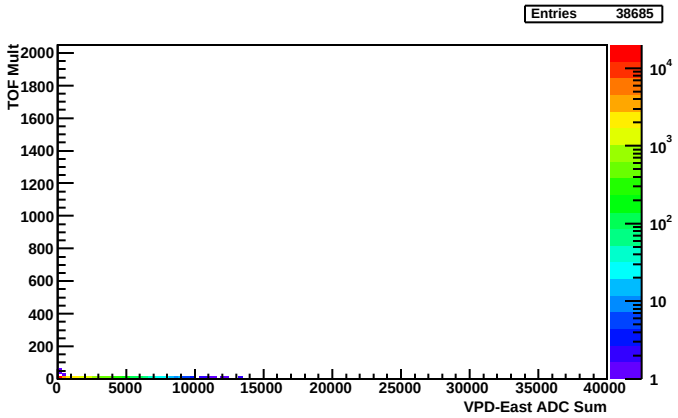

BBQ-VP004 (HI threshold)
Entries 618960
TAC
QT Input Channel

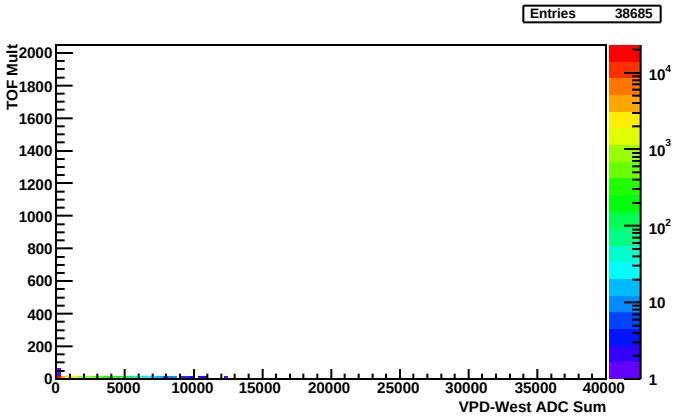

Entries 38685
TOF Mult
BBC-L-East ADC Sum

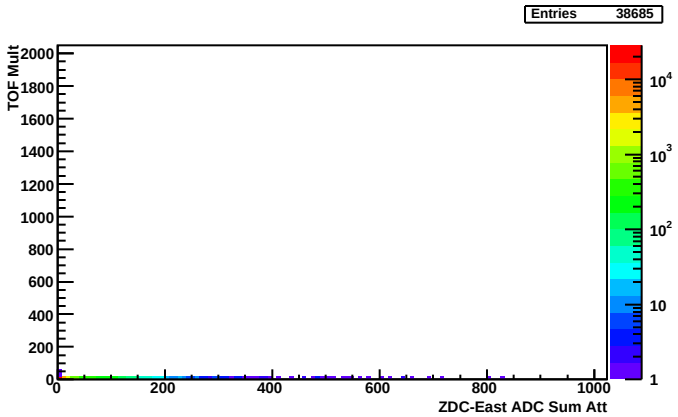

Entries 38685
TOF Mult
BBC-L-West ADC Sum

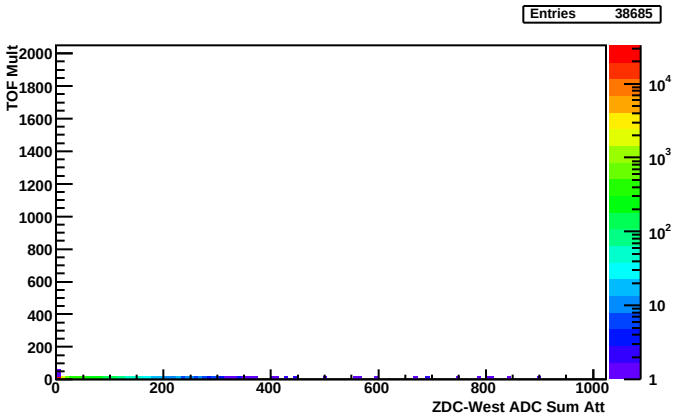

Entries 38685
TOF Mult
BBC-S-East ADC Sum

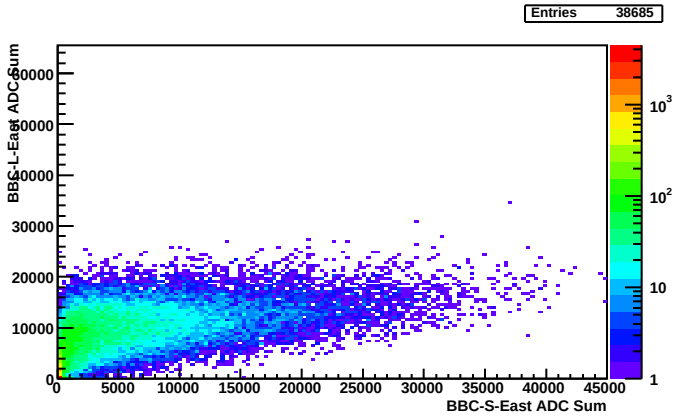

Entries 38685
TOF Mult
BBC-S-West ADC Sum

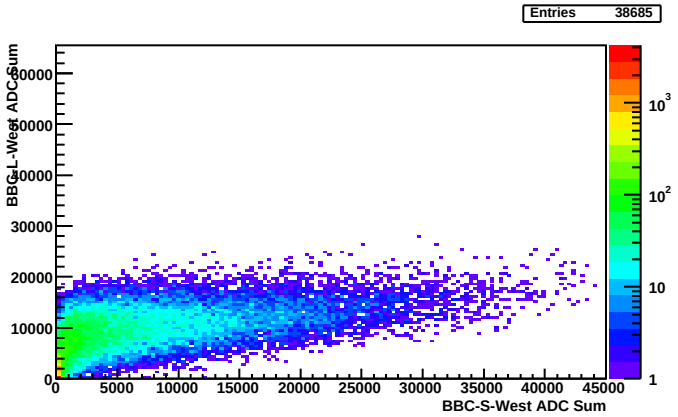

Entries 38685
TOF Mult
VPD-East ADC Sum

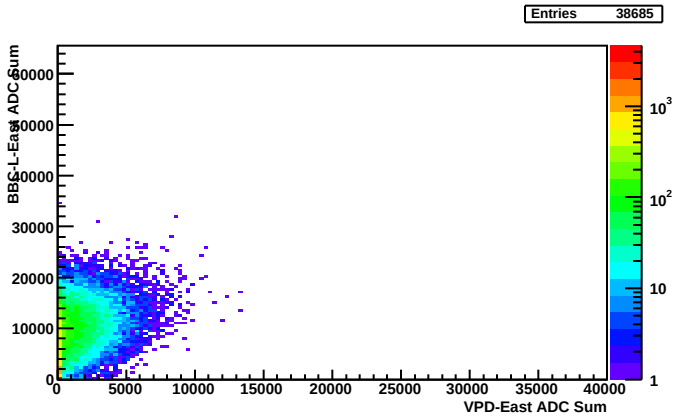

Entries 38685
TOF Mult
VPD-West ADC Sum

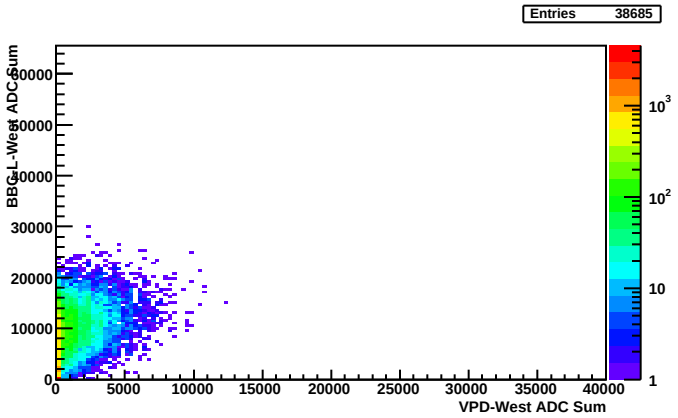

Entries 38685
TOF Mult
ZDC-East ADC Sum Att

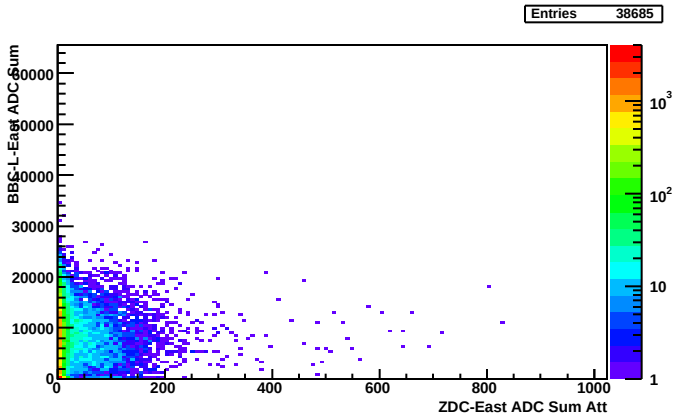

Entries 38685
TOF Mult
ZDC-West ADC Sum Att

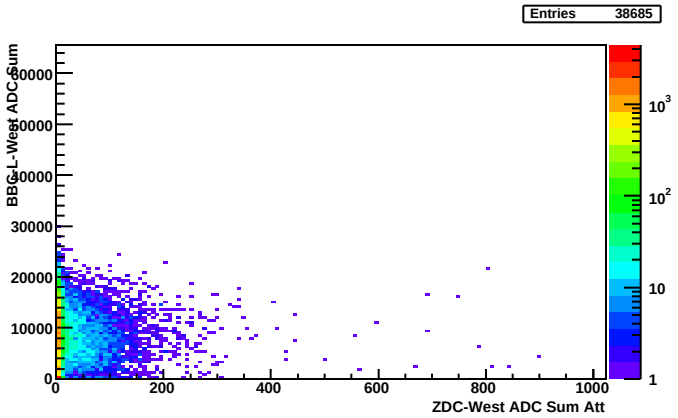

Entries 38685
BBC-L-East ADC Sum
BBC-S-East ADC Sum

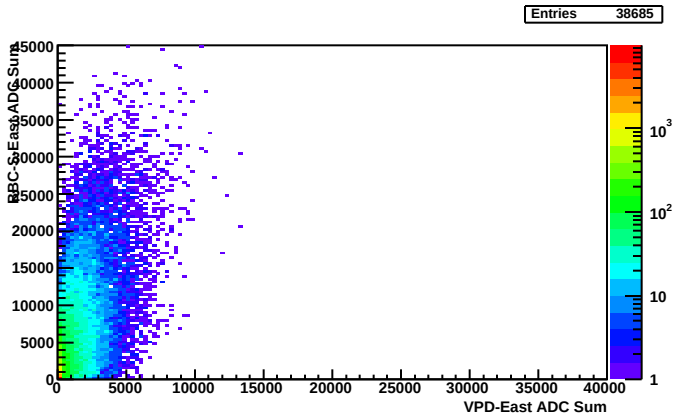

Entries 38685
BBC-L-West ADC Sum
BBC-S-West ADC Sum

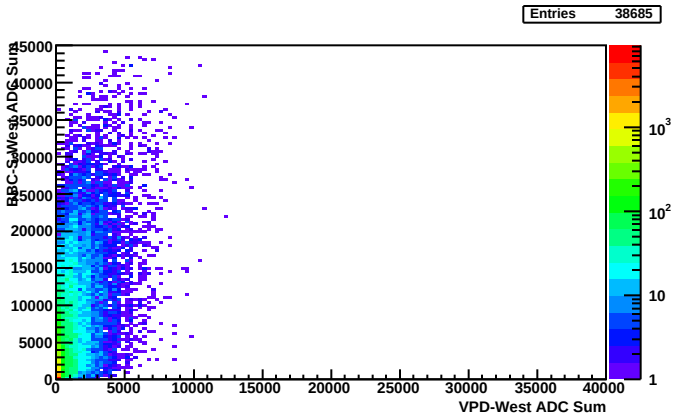

Entries 38685
BBC-L-East ADC Sum
VPD-East ADC Sum

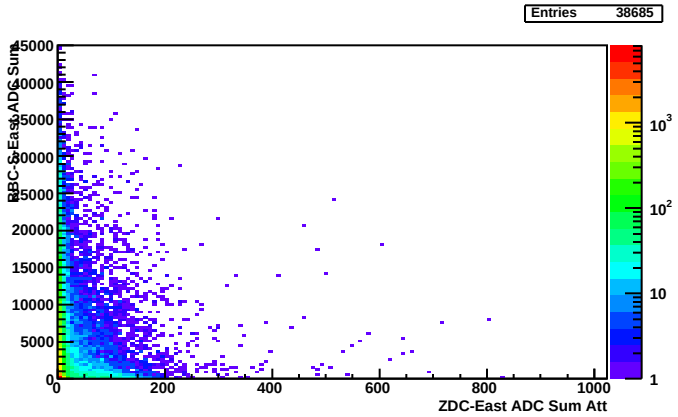

Entries 38685
BBC-L-West ADC Sum
VPD-West ADC Sum

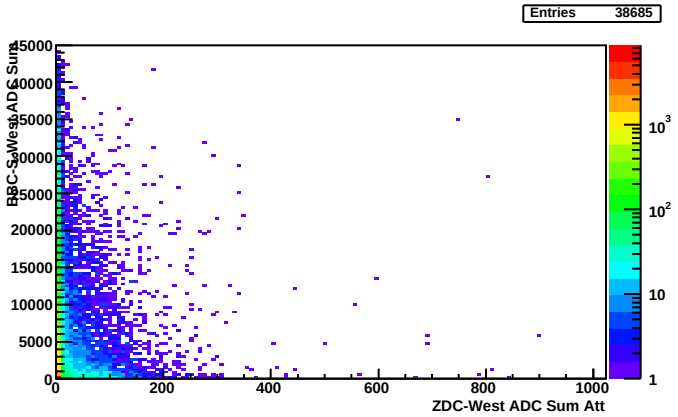

Entries 38685
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

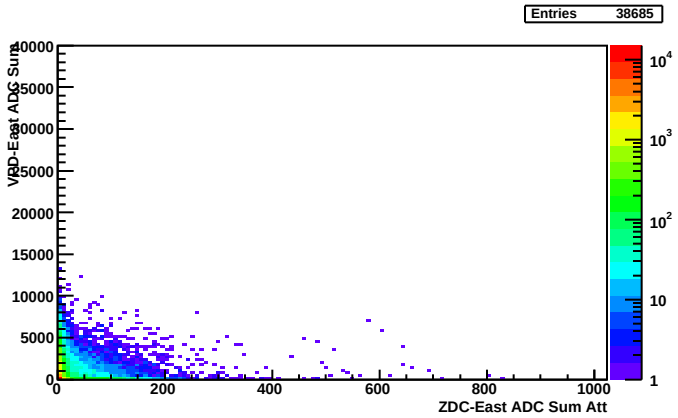

Entries 38685
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

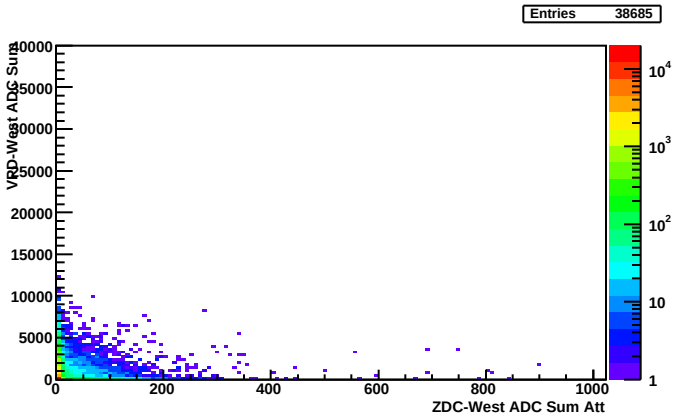

Entries 38685
BBC-S-East ADC Sum
VPD-East ADC Sum

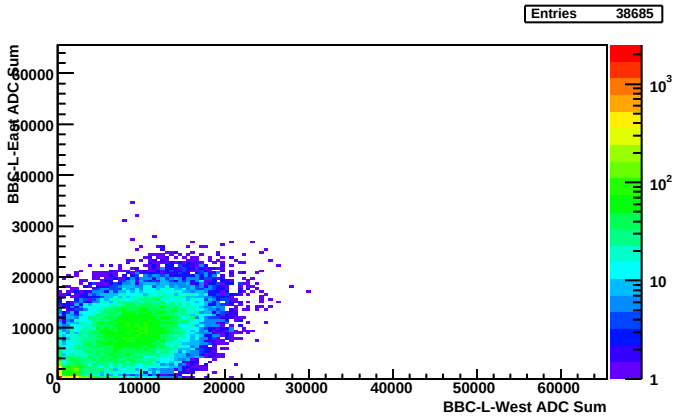

Entries 38685
BBC-S-West ADC Sum
VPD-West ADC Sum

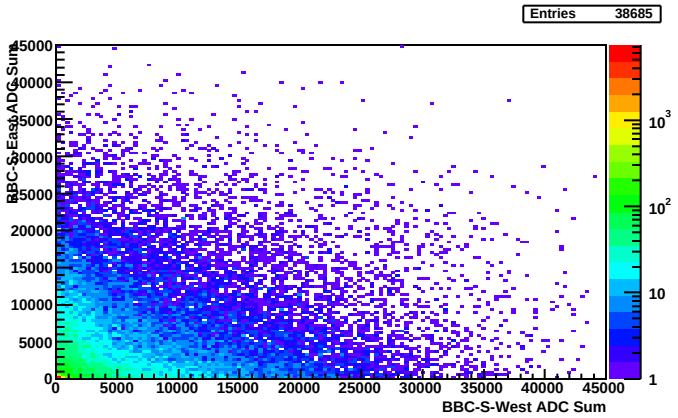

Entries 38685
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

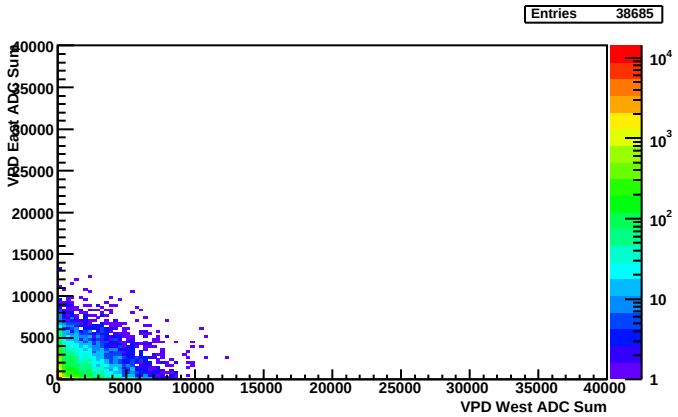

Entries 38685
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

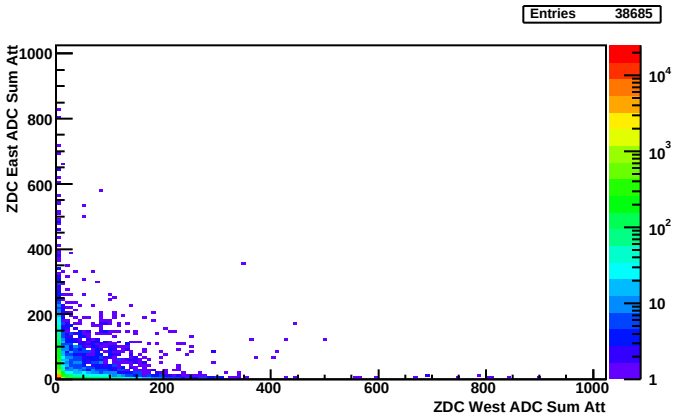

Entries 38685
VPD-East ADC Sum
ZDC-East ADC Sum Att

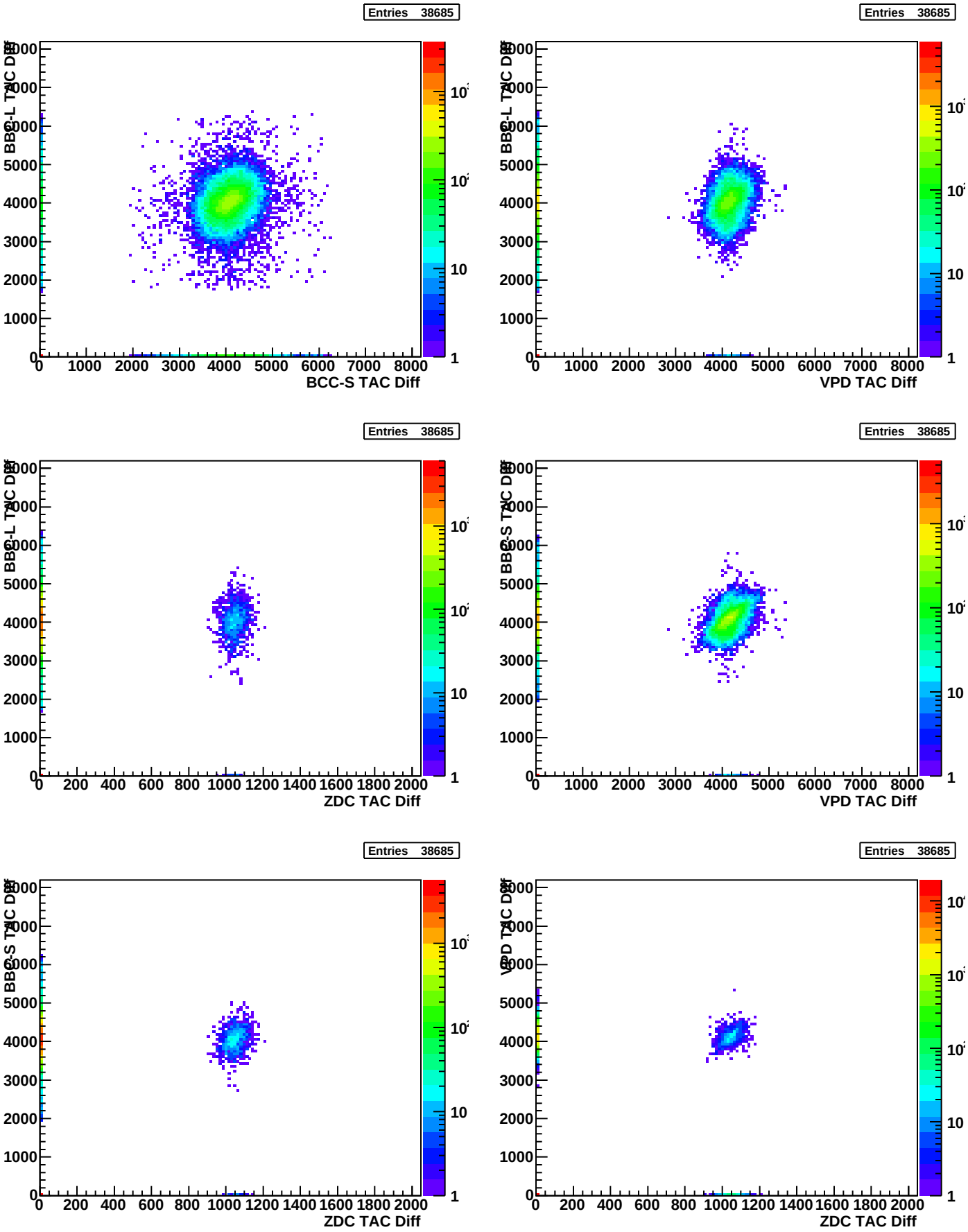

Entries 38685
VPD-West ADC Sum
ZDC-West ADC Sum Att

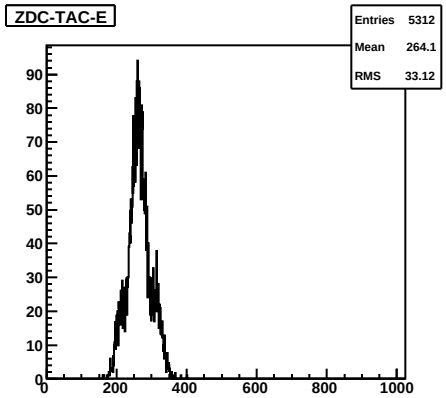

Entries 38685
BBC-L-East ADC Sum
BBC-L-West ADC Sum

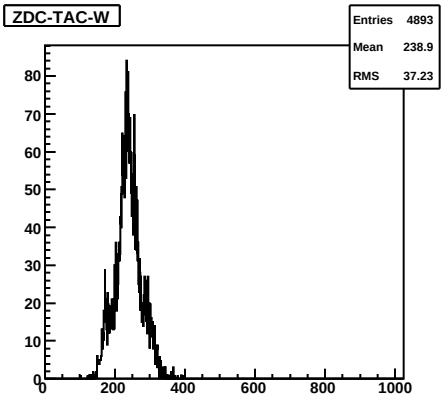

Entries 38685
BBC-S-East ADC Sum
BBC-S-West ADC Sum

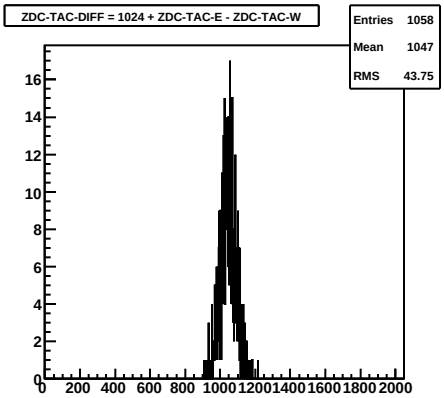

Entries 38685
VPD East ADC Sum
VPD West ADC Sum

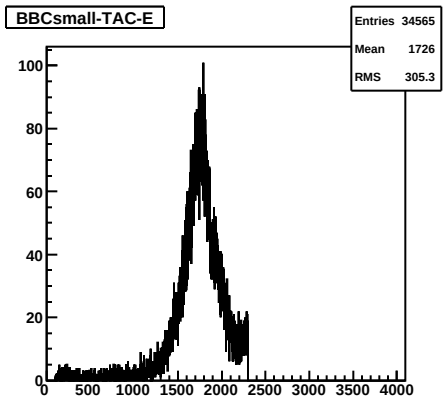

Entries 38685
ZDC East ADC Sum Att
ZDC West ADC Sum Att

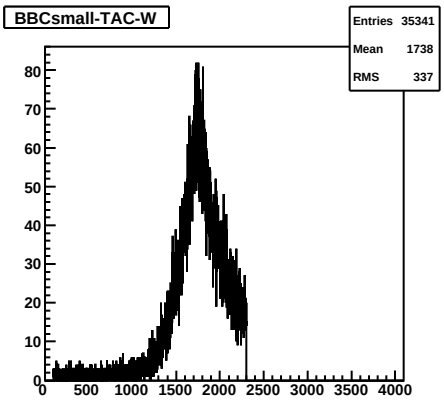

Entries 38685
BBC-L TAC Diff
BCC-S TAC Diff
Entries 38685
BBC-L TAC Diff
VPD TAC Diff
Entries 38685
BBC-L TAC Diff
ZDC TAC Diff
Entries 38685
BBC-S TAC Diff
VPD TAC Diff
Entries 38685
BBC-S TAC Diff
ZDC TAC Diff
Entries 38685
VPD TAC Diff
ZDC TAC Diff

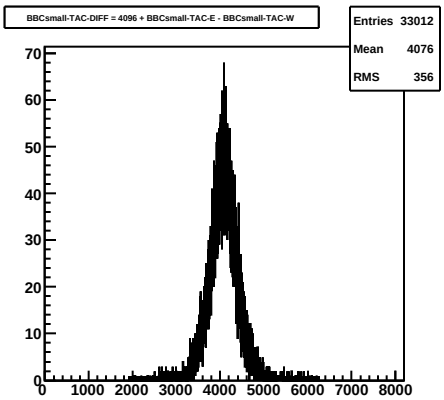

ZDC-TAC-E
Entries 5312
Mean 264.1
RMS 33.12

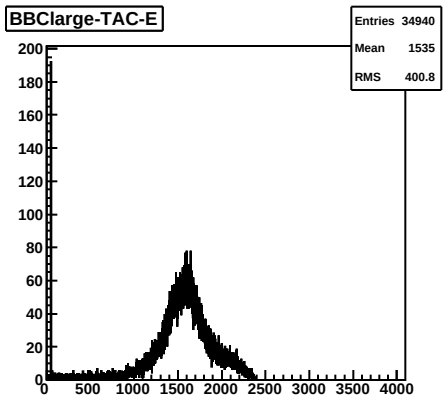

ZDC-TAC-W
Entries 4893
Mean 238.9
RMS 37.23

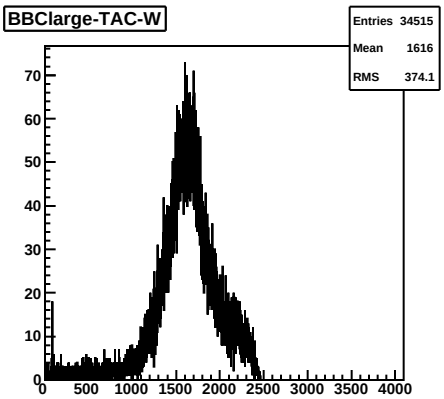

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1058
Mean 1047
RMS 43.75

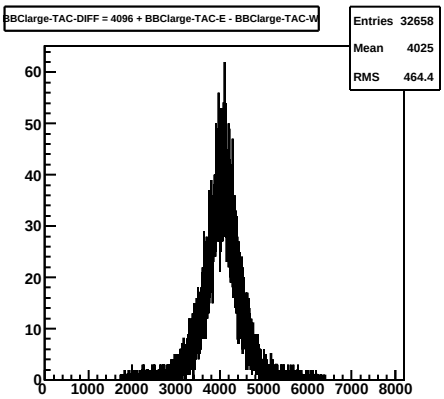

BBCsmall-TAC-E
Entries 34565
Mean 1726
RMS 305.3

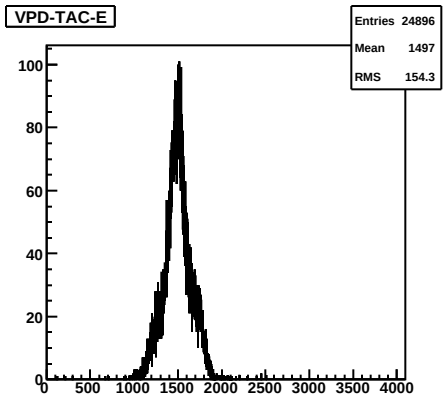

BBCsmall-TAC-W
Entries 35341
Mean 1738
RMS 337

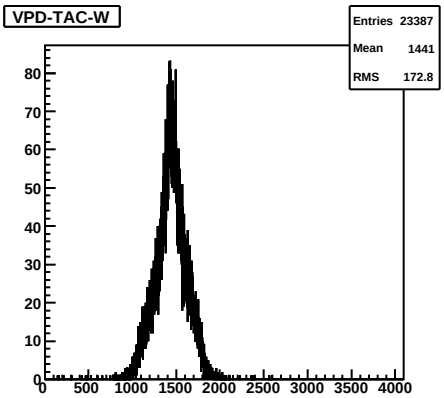

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 33012
Mean 4076
RMS 356

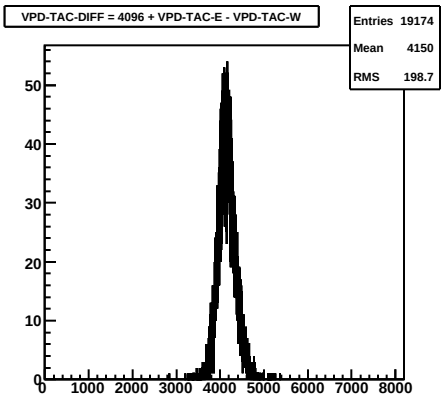

BBClarge-TAC-E
Entries 34940
Mean 1535
RMS 400.8

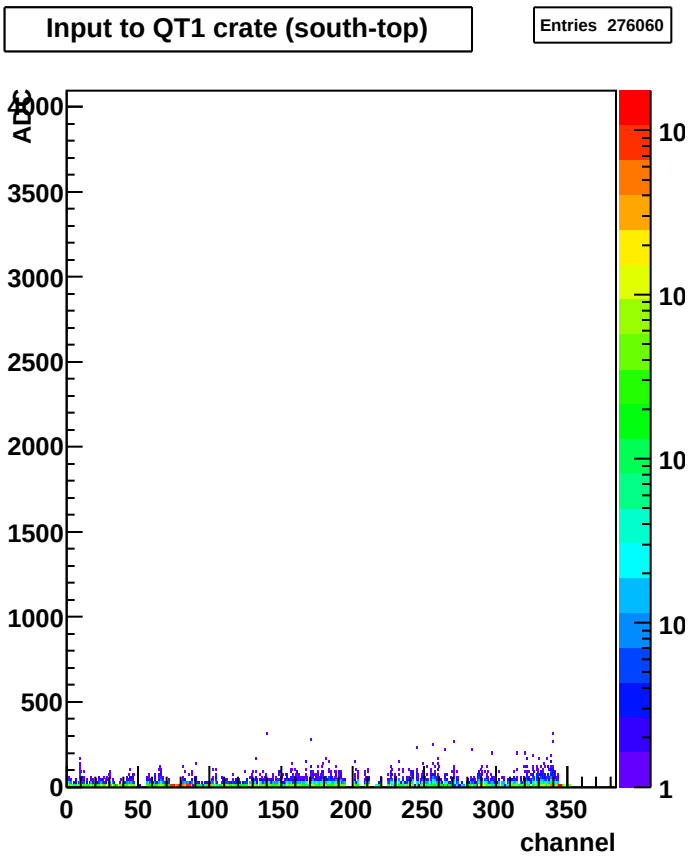

BBClarge-TAC-W
Entries 34515
Mean 1616
RMS 374.1

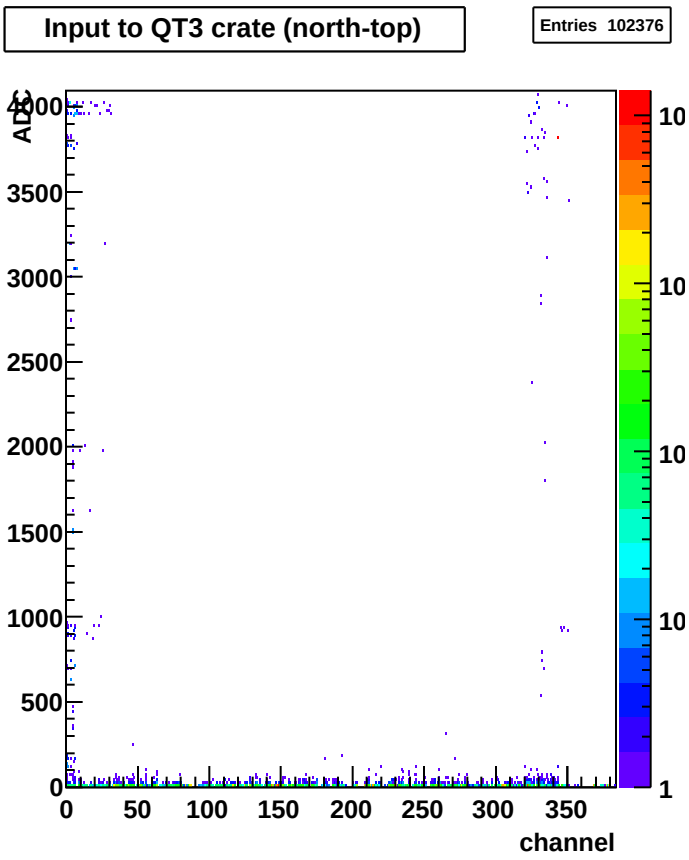

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 32658
Mean 4025
RMS 464.4

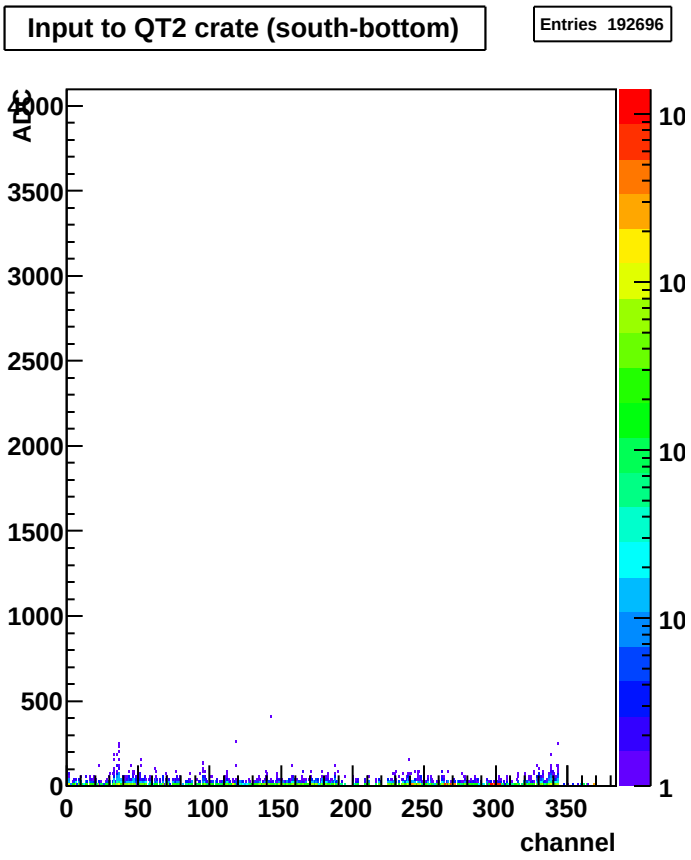

VPD-TAC-E
Entries 24896
Mean 1497
RMS 154.3

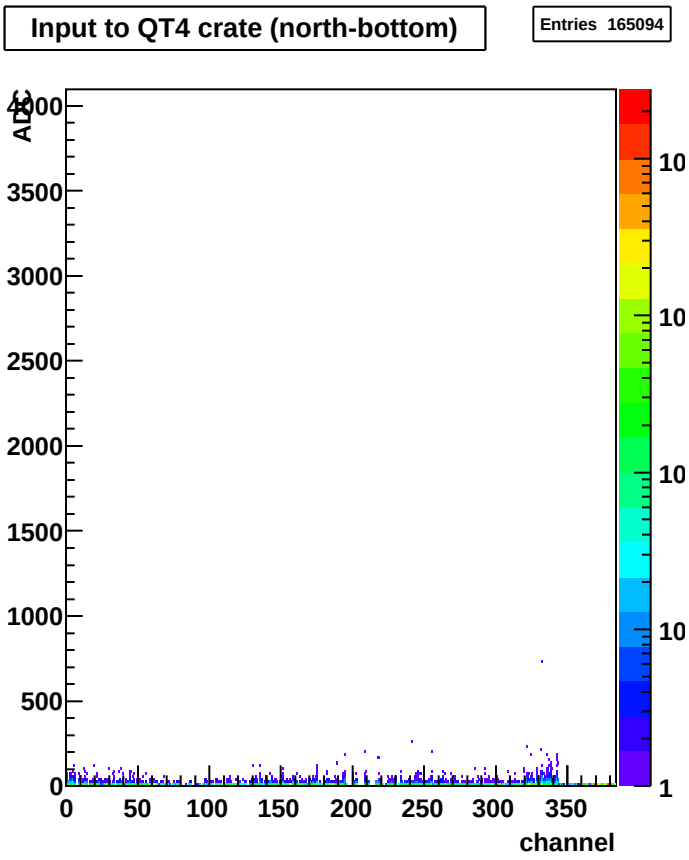

VPD-TAC-W
Entries 23387
Mean 1441
RMS 172.8

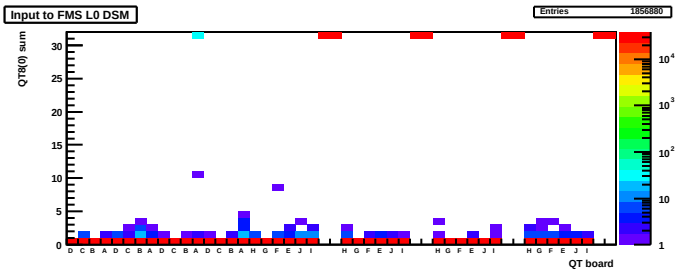

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 19174
Mean 4150
RMS 198.7

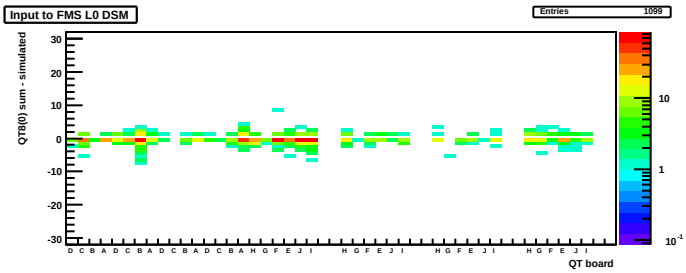

Input to QT1 crate (south-top)
Entries 276060
ADC
channel

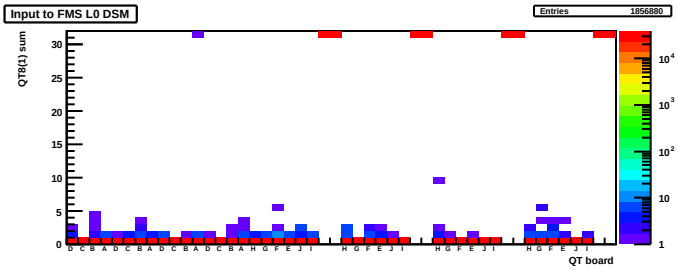

Input to QT3 crate (north-top)
Entries 102376
ADC
channel

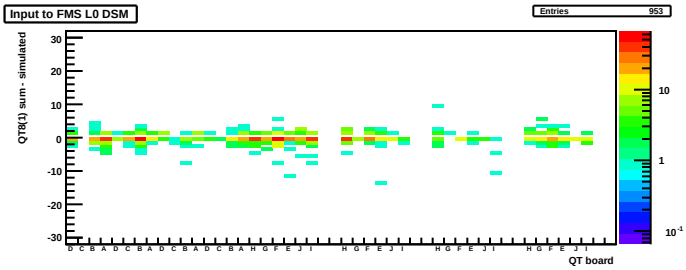

Input to QT2 crate (south-bottom)
Entries 192696
ADC
channel

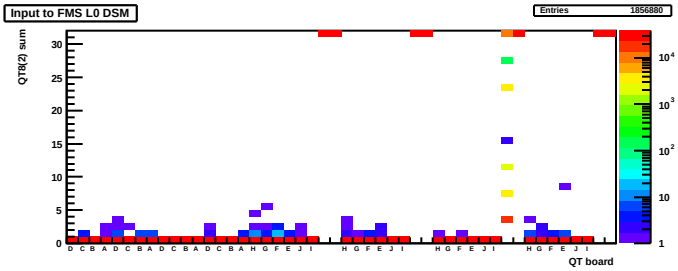

Input to QT4 crate (north-bottom)
Entries 165094
ADC
channel

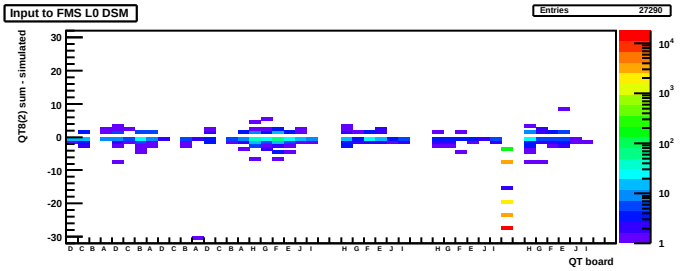

Input to FMS L0 DSM
Entries 1856880
QT8(0) sum
QT board

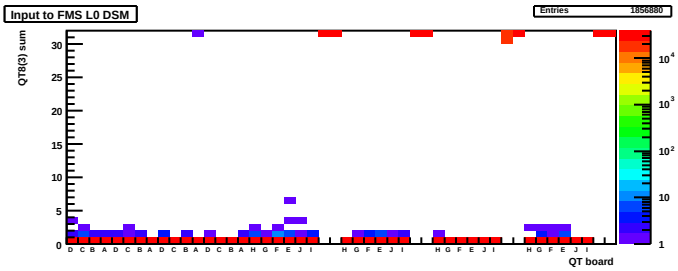

Input to FMS L0 DSM
Entries 1099
QT8(0) sum - simulated
QT board

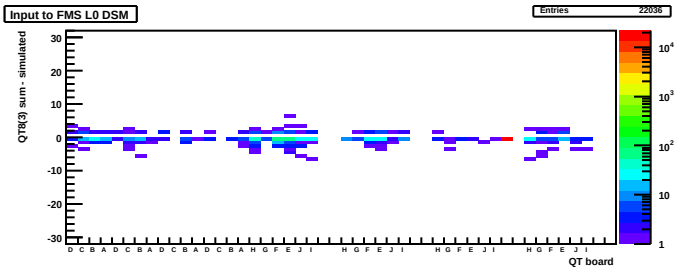

Input to FMS L0 DSM
Entries 1856880
QT8(1) sum
QT board

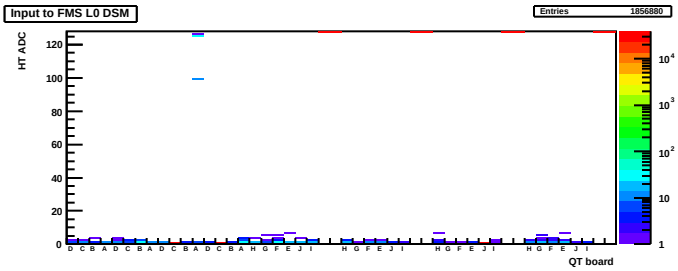

Input to FMS L0 DSM
Entries 953
QT8(1) sum - simulated
QT board

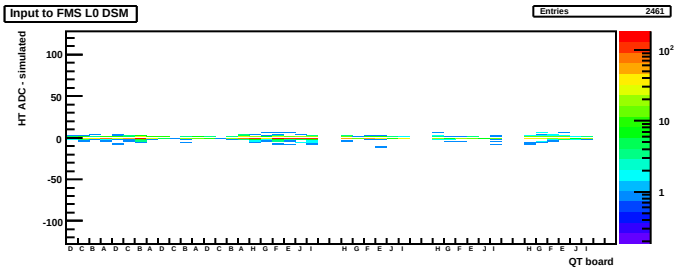

Input to FMS L0 DSM
Entries 1856880
QT8(2) sum
QT board

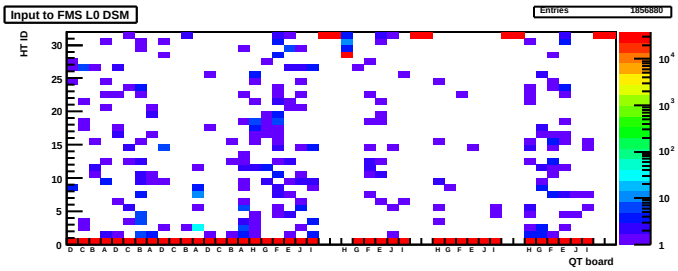

Input to FMS L0 DSM
Entries 27290
QT8(2) sum - simulated
QT board

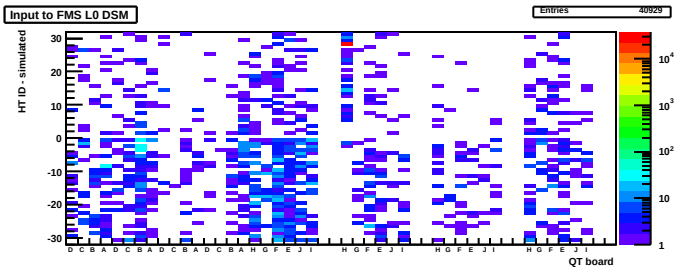

Input to FMS L0 DSM
Entries 1856880
QT8(3) sum
QT board

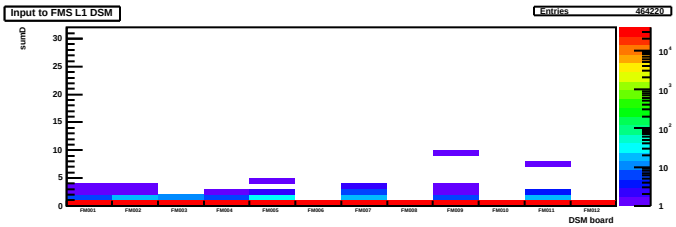

Input to FMS L0 DSM
Entries 22036
QT8(3) sum - simulated
QT board

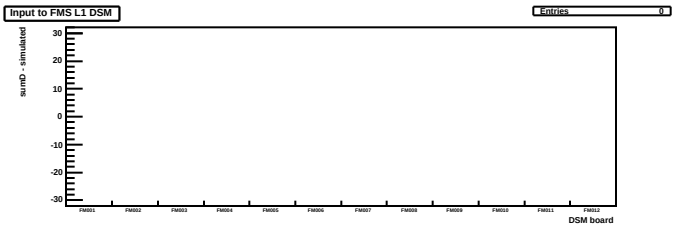

Input to FMS L0 DSM
Entries 1856880
HT ADC
QT board

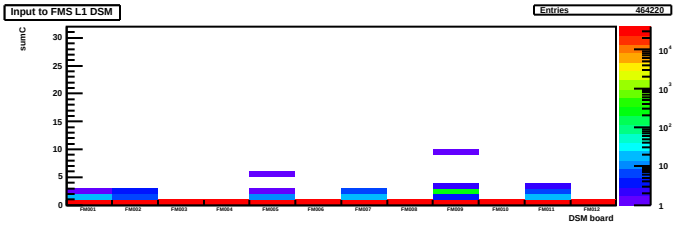

Input to FMS L0 DSM
Entries 2461
HT ADC - simulated
QT board

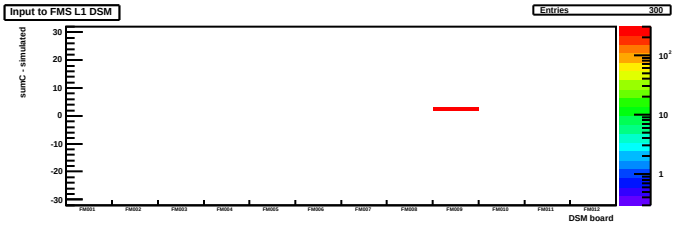

Input to FMS L0 DSM
Entries 1856880
HT ID
QT board

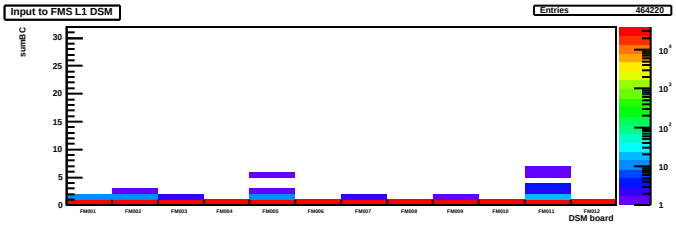

Input to FMS L0 DSM
Entries 40929
HT ID - simulated
QT board

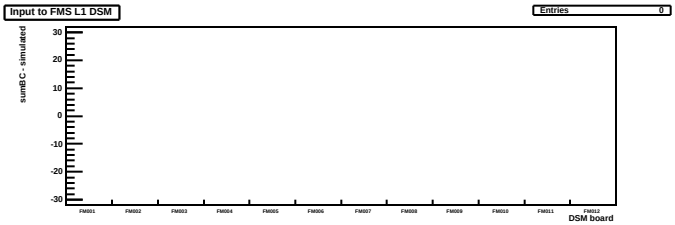

Input to FMS L1 DSM
Entries 464220
sumD
DSM board

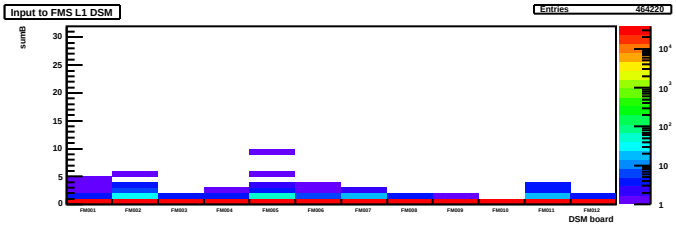

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

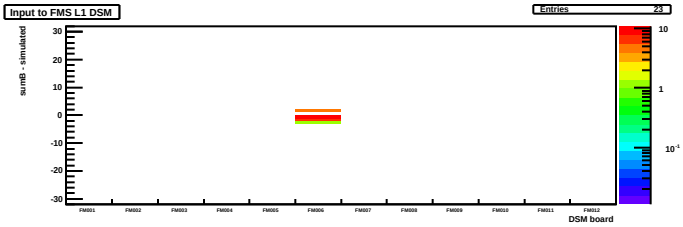

Input to FMS L1 DSM
Entries 464220
sumC
DSM board

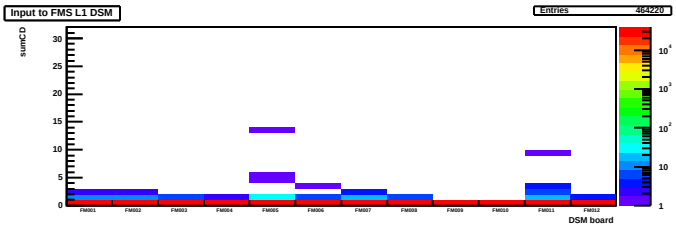

Input to FMS L1 DSM
Entries 300
sumC - simulated
DSM board

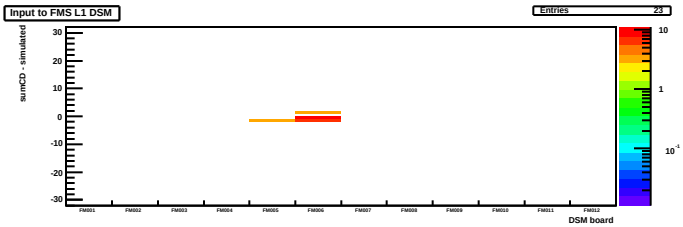

Input to FMS L1 DSM
Entries 464220
sumBC
DSM board

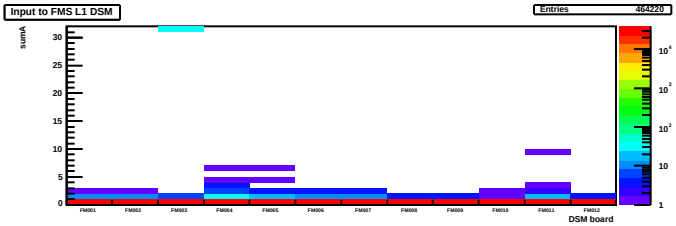

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

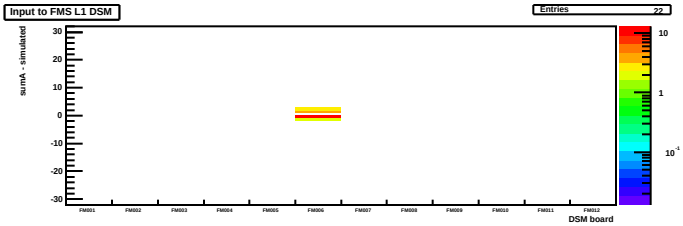

Input to FMS L1 DSM
Entries 464220
sumB
DSM board

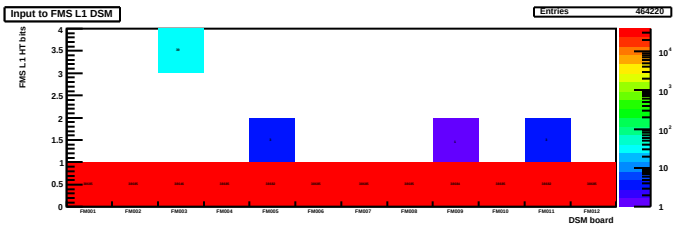

Input to FMS L1 DSM
Entries 23
sumB - simulated
DSM board

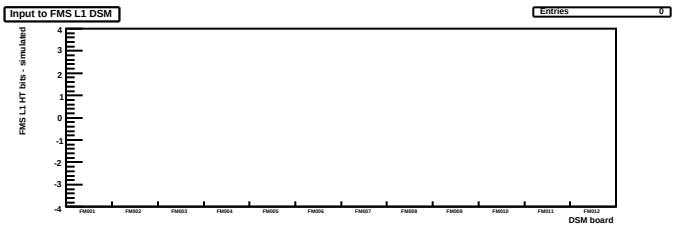

Input to FMS L1 DSM
Entries 464220
sumCD
DSM board

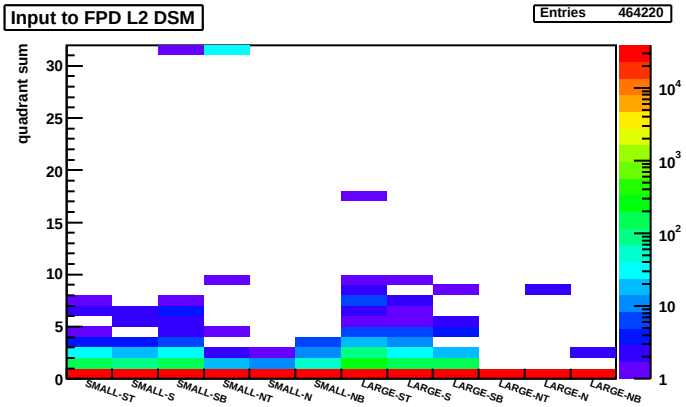

Input to FMS L1 DSM
Entries 23
sumCD - simulated
DSM board

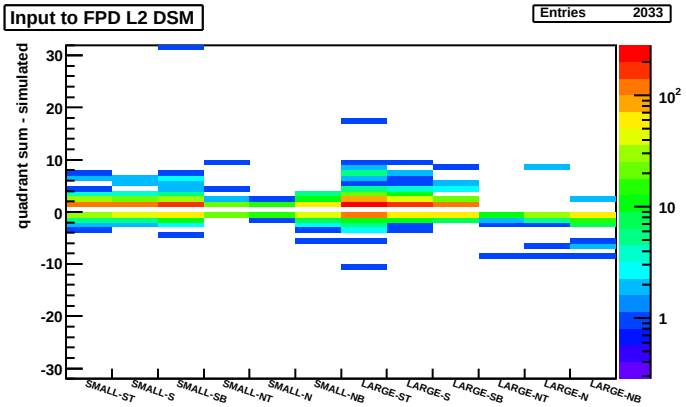

Input to FMS L1 DSM
Entries 464220
sumA
DSM board

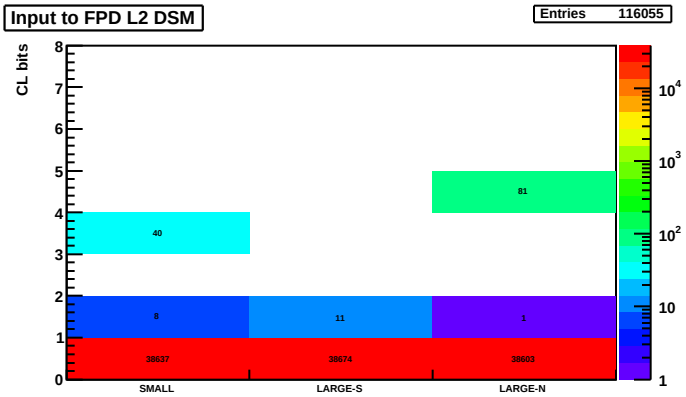

Input to FMS L1 DSM
Entries 22
sumA - simulated
DSM board

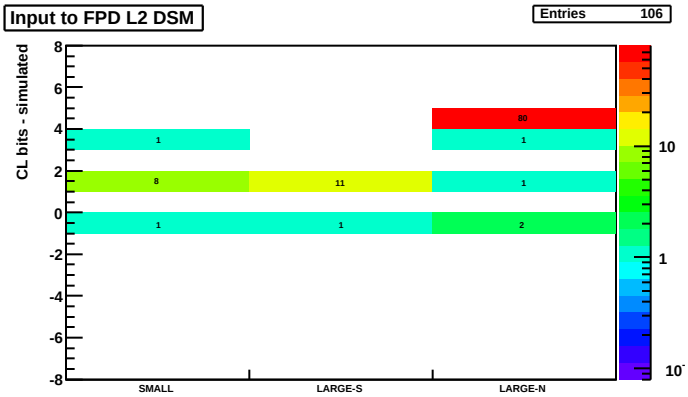

Input to FMS L1 DSM
Entries 464220
FMS L1 HT bits
DSM board

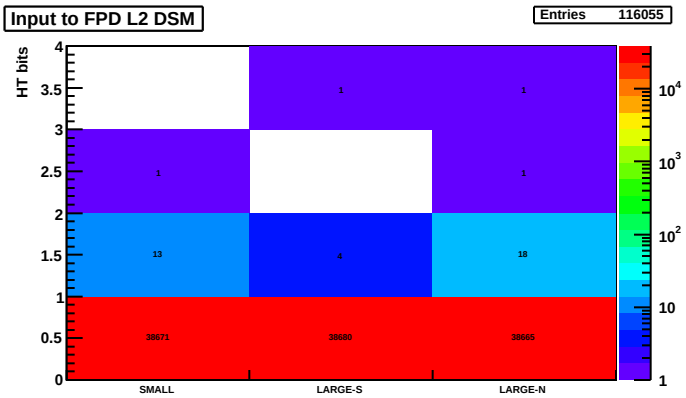

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

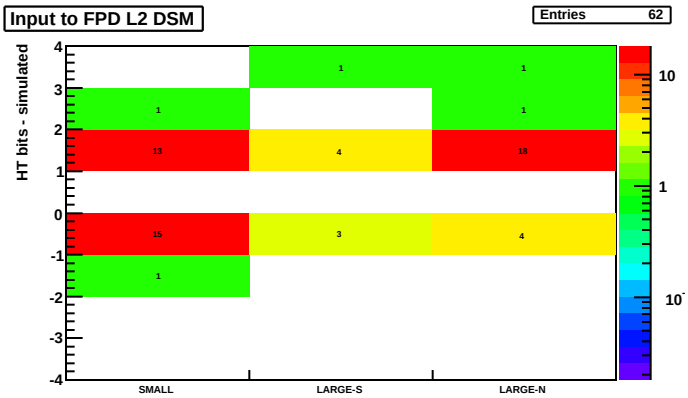

Input to FPD L2 DSM
Entries 464220
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

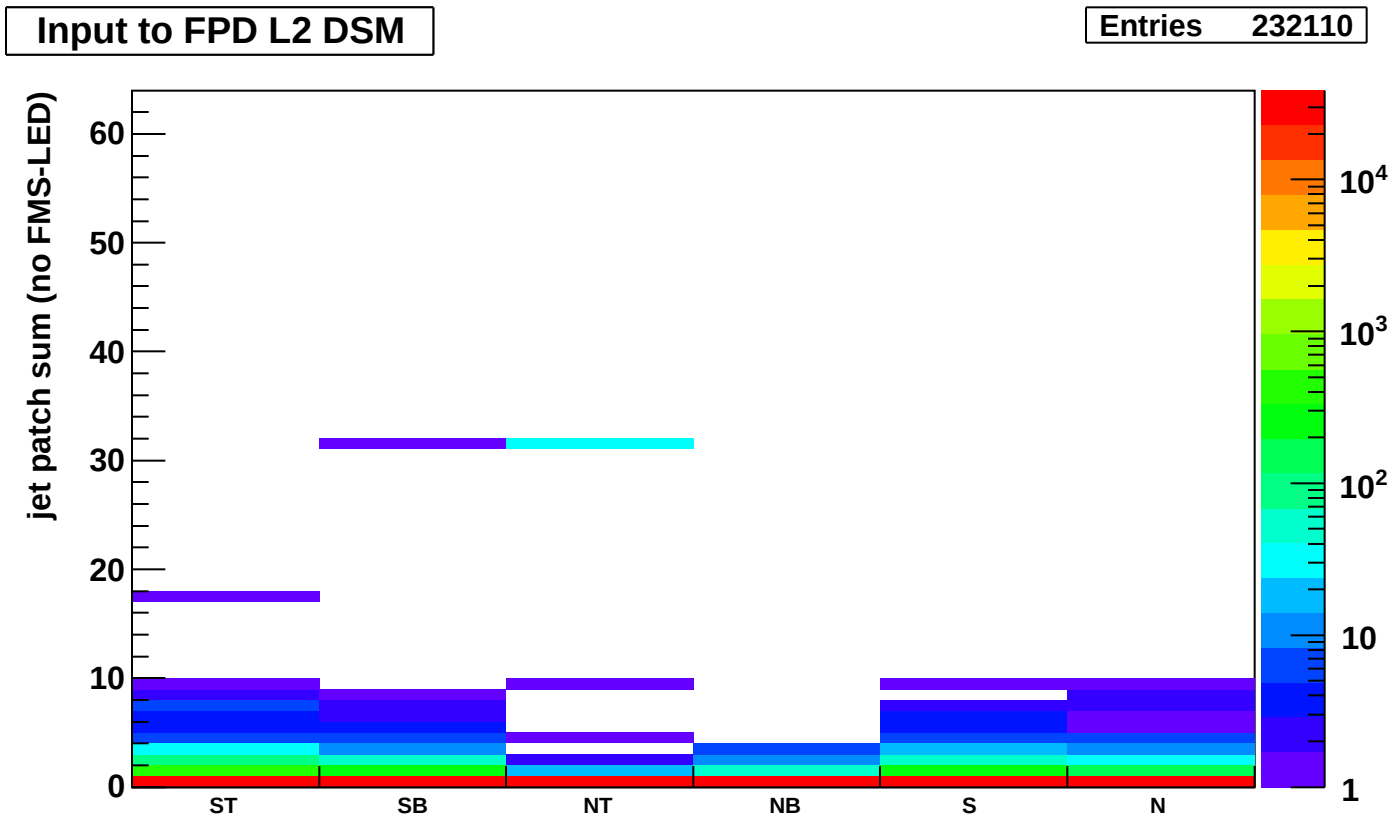

Input to FPD L2 DSM
Entries 2033
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

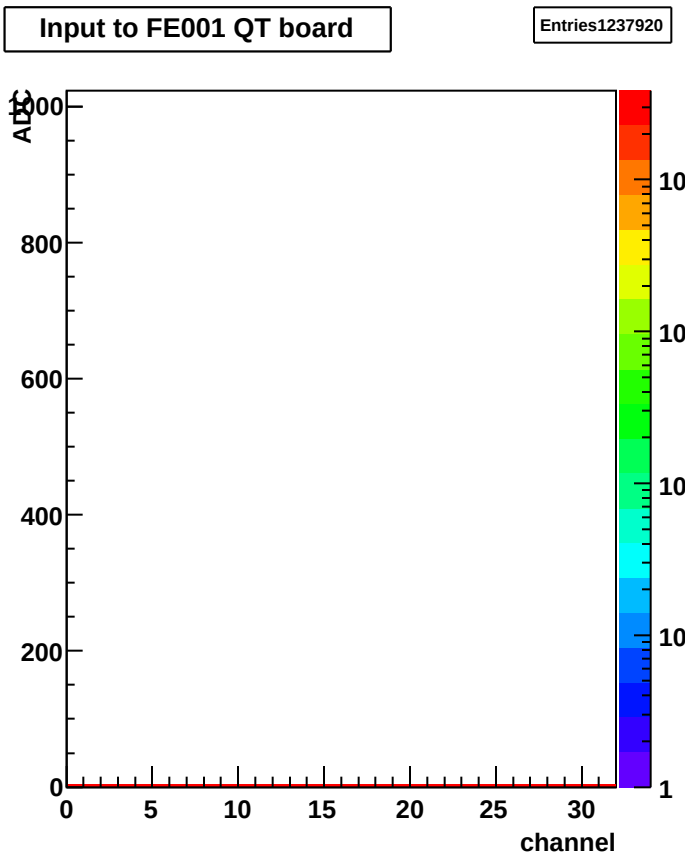

Input to FPD L2 DSM
Entries 116055
CL bits
40
81
8
11
1
38637
38674
38603
SMALL
LARGE-S
LARGE-N

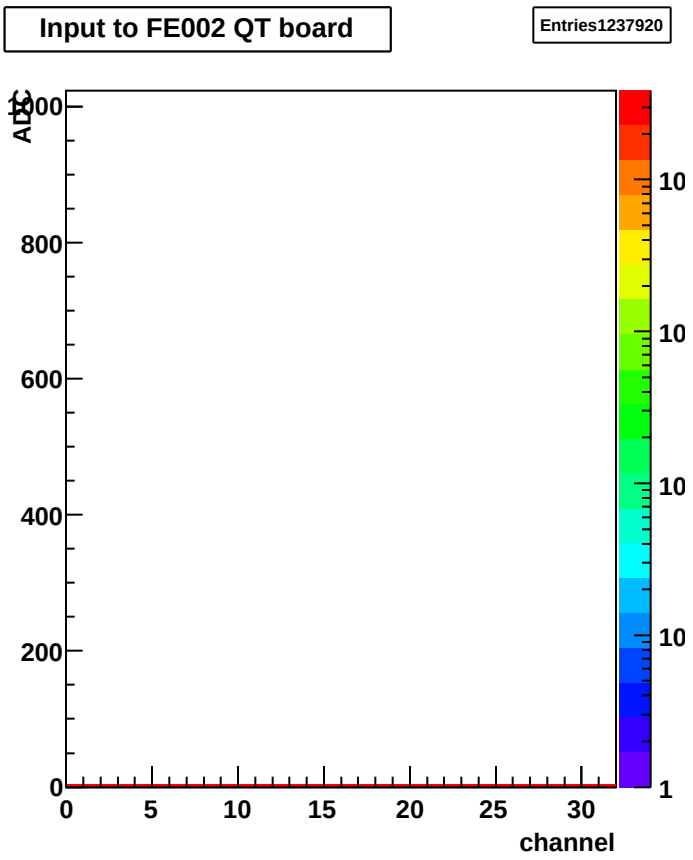

Input to FPD L2 DSM
Entries 106
CL bits - simulated
80
1
1
8
11
1
1
1
2
SMALL
LARGE-S
LARGE-N

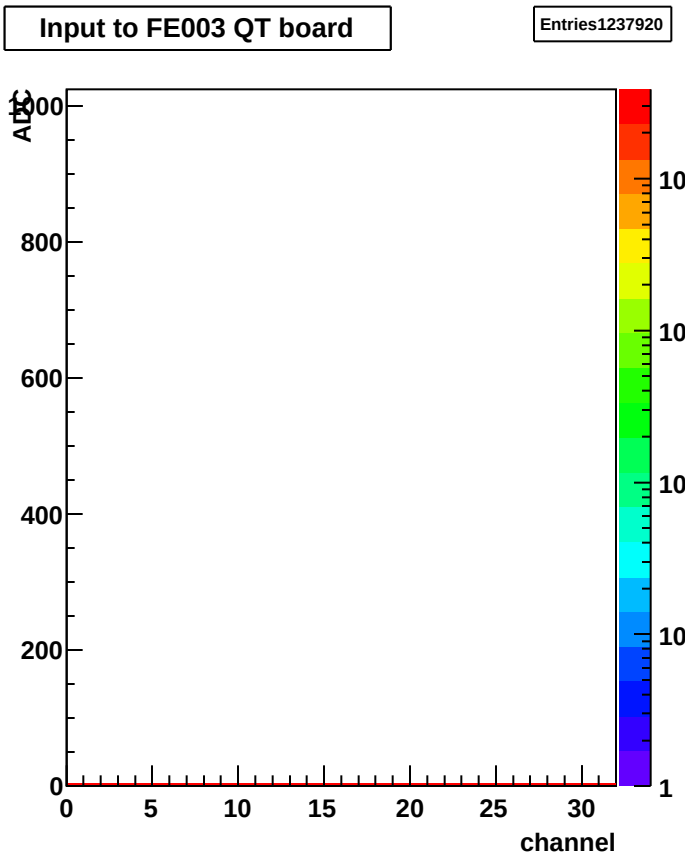

Input to FPD L2 DSM
Entries 116055
HT bits
1
1
1
1
13
4
18
38671
38680
38665
SMALL
LARGE-S
LARGE-N

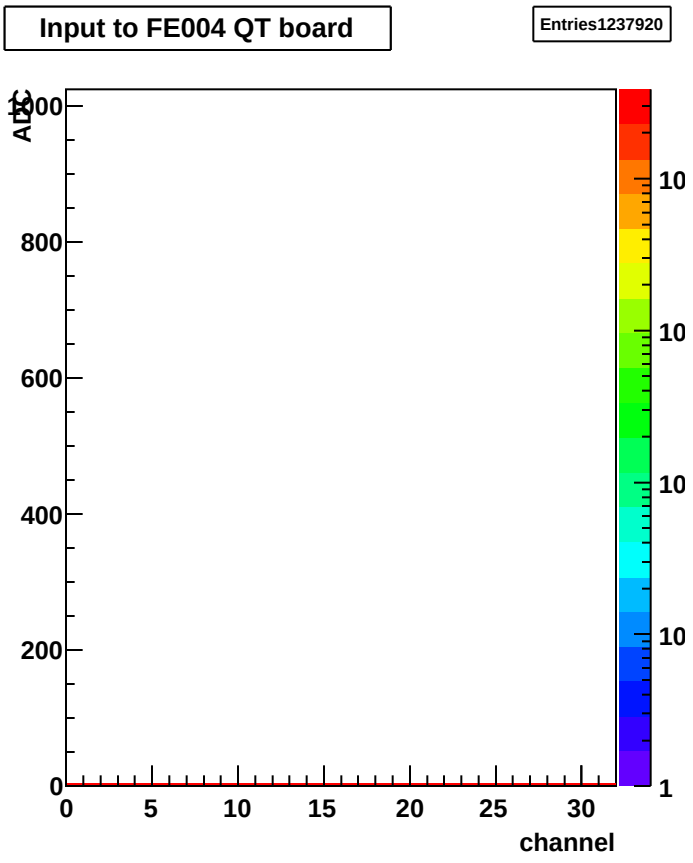

Input to FPD L2 DSM
Entries 62
HT bits - simulated
1
1
1
1
13
4
18
15
3
4
1
SMALL
LARGE-S
LARGE-N

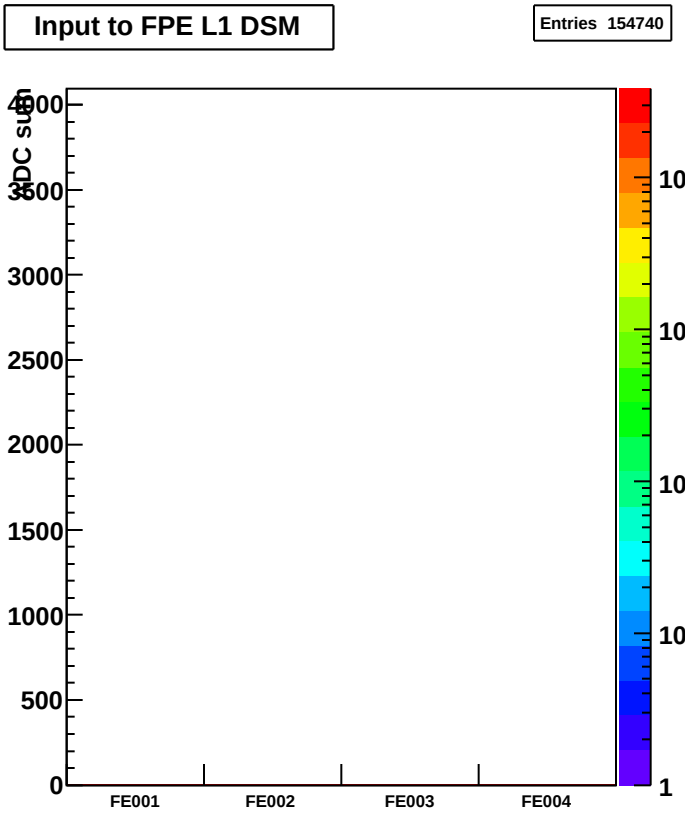

Input to FPD L2 DSM
Entries 232110
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

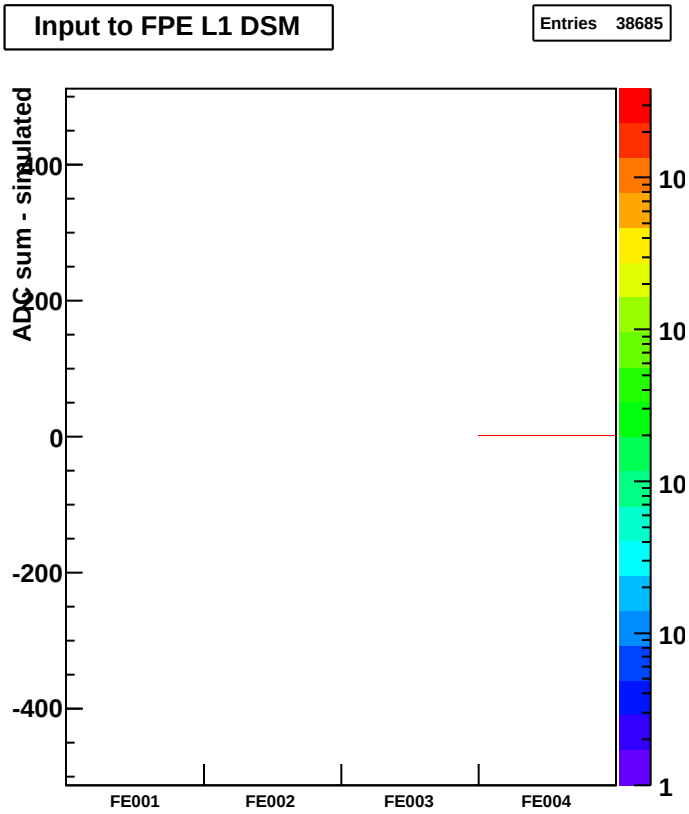

Input to FE001 QT board
Entries1237920
ADC
channel

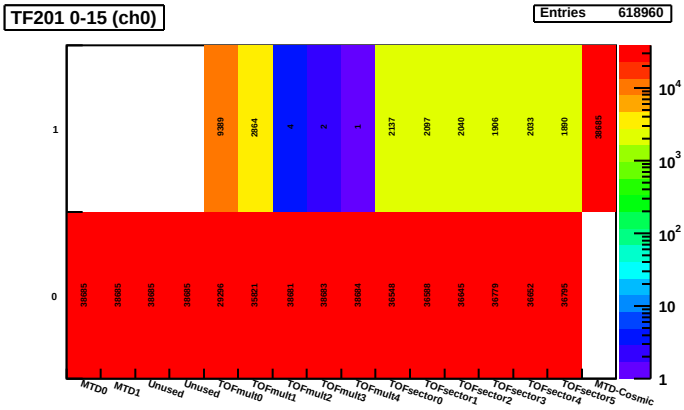

Input to FE002 QT board
Entries1237920
ADC
channel

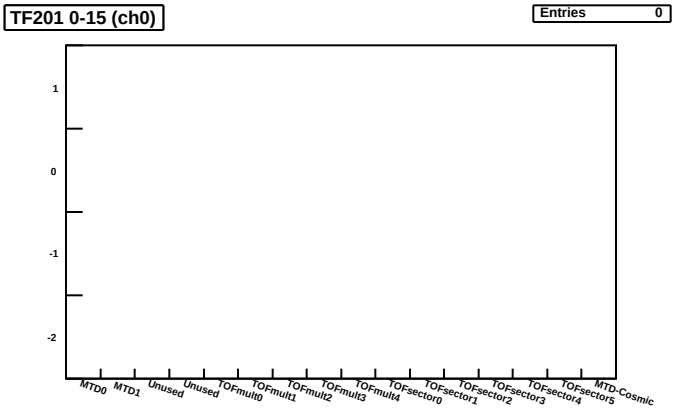

Input to FE003 QT board
Entries1237920
ADC
channel

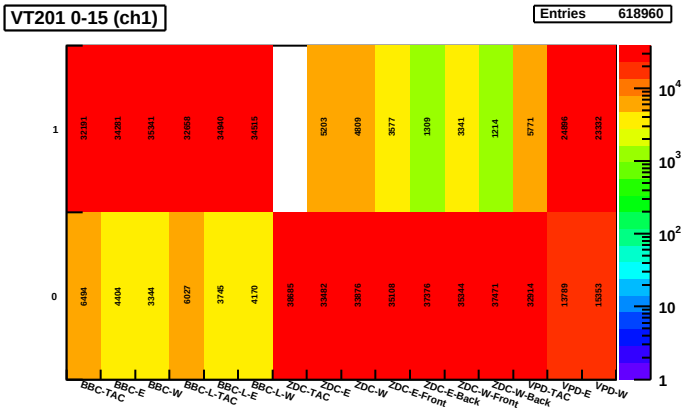

Input to FE004 QT board
Entries1237920
ADC
channel

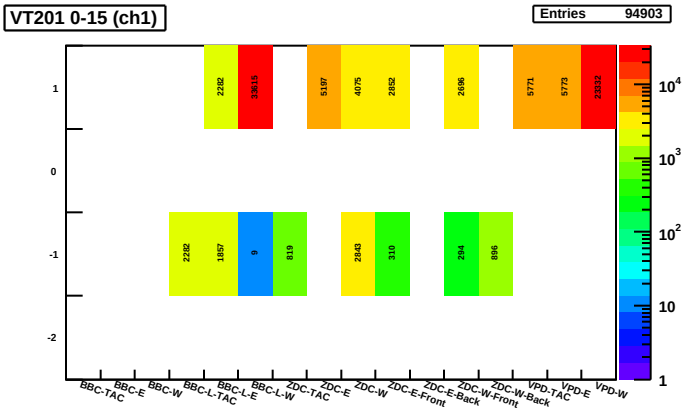

Input to FPE L1 DSM
Entries 154740
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

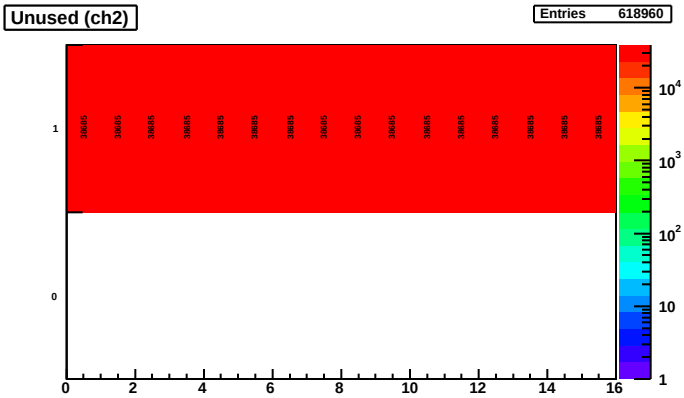

Input to FPE L1 DSM
Entries 38685
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1

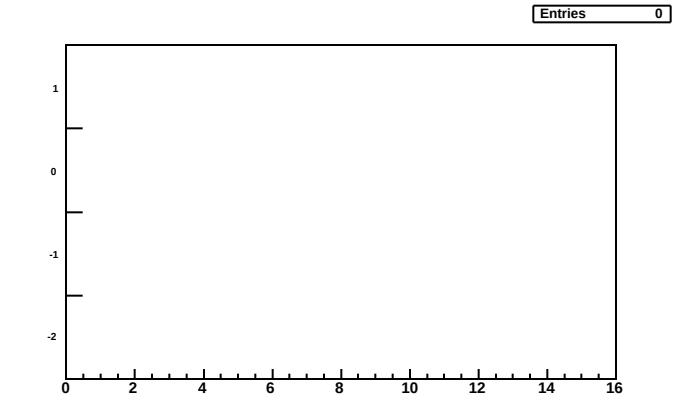

TF201 0-15 (ch0)
Entries 618960
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

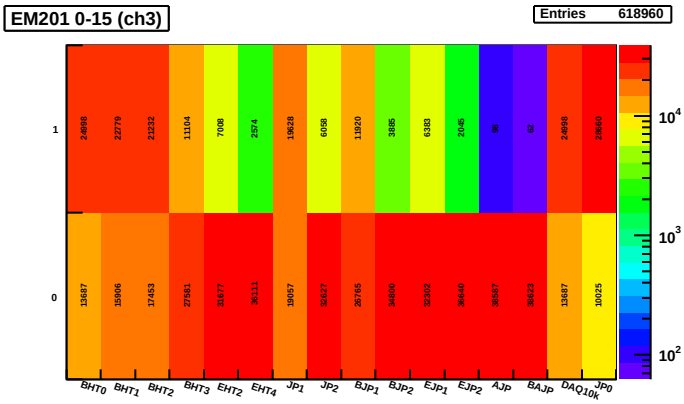

TF201 0-15 (ch0)
Entries 0
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

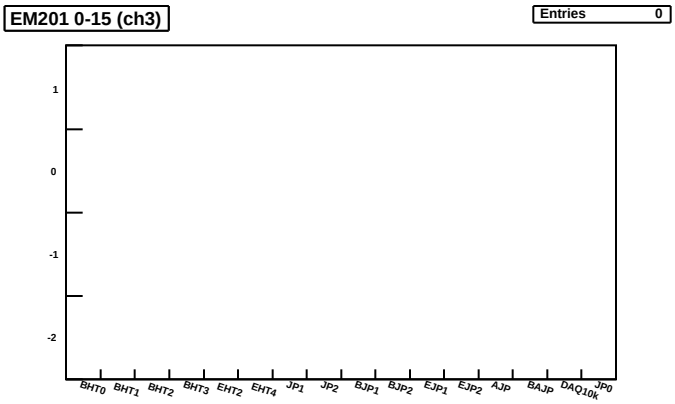

VT201 0-15 (ch1)
Entries 618960
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 94903
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

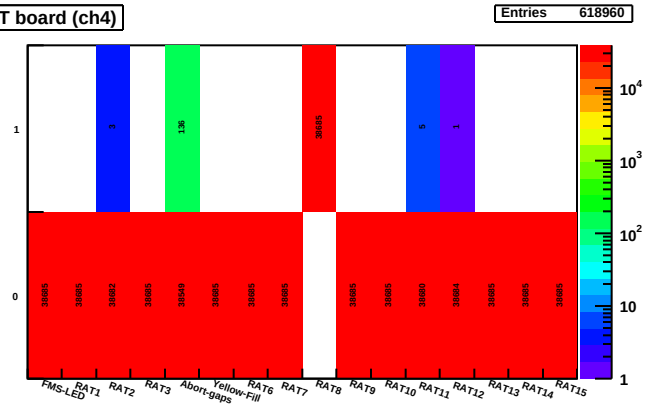

Unused (ch2)
Entries 618960

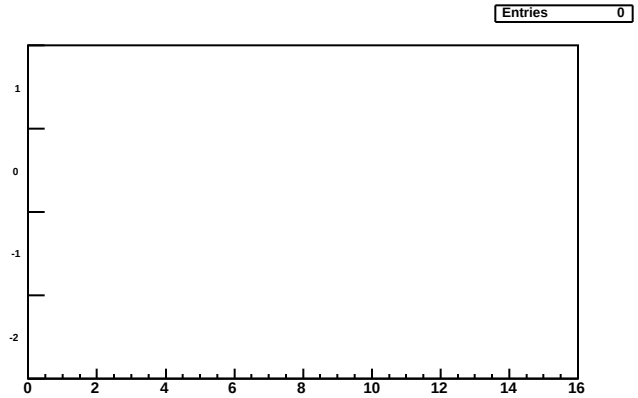

Entries 0


EM201 0-15 (ch3)
Entries 618960
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

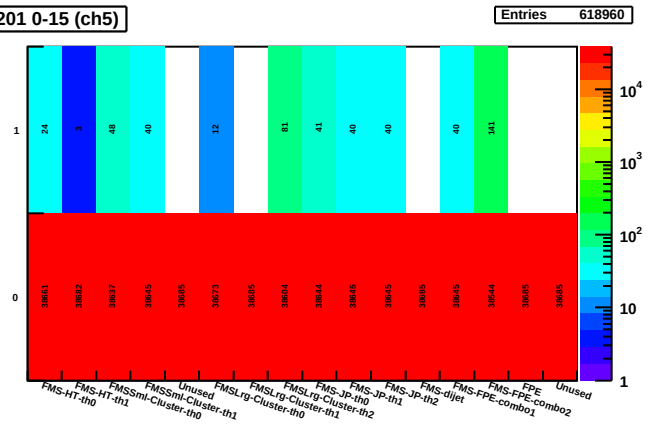

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

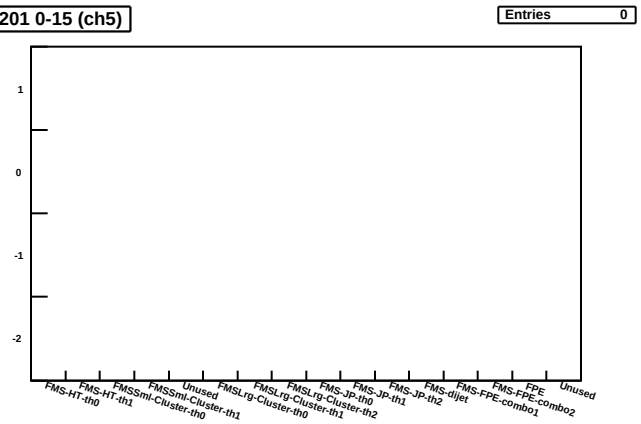




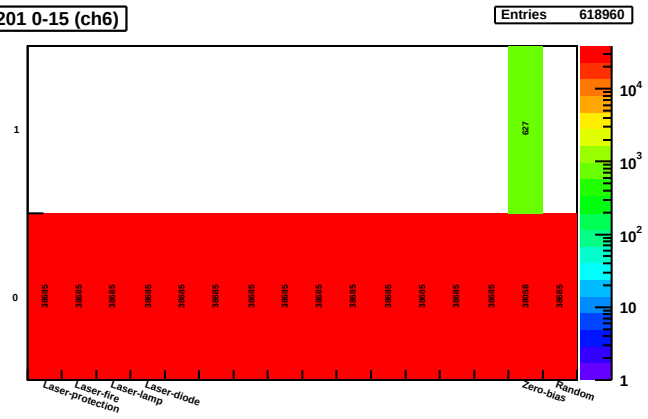
FP201 0-15 (ch5)

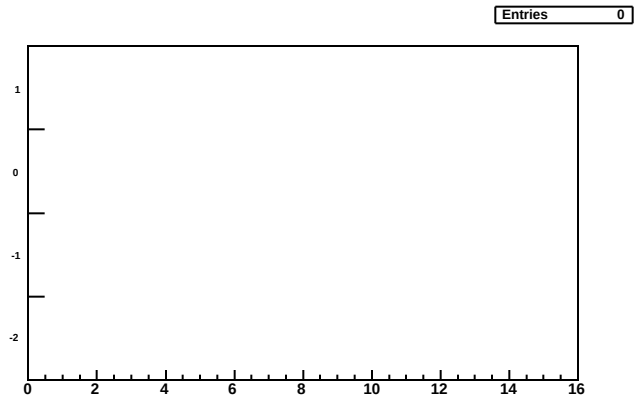
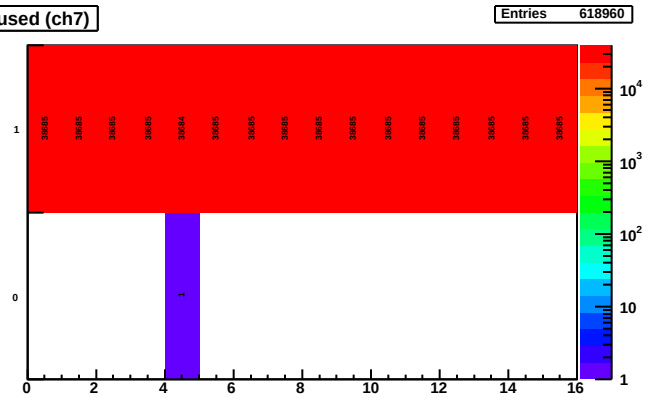
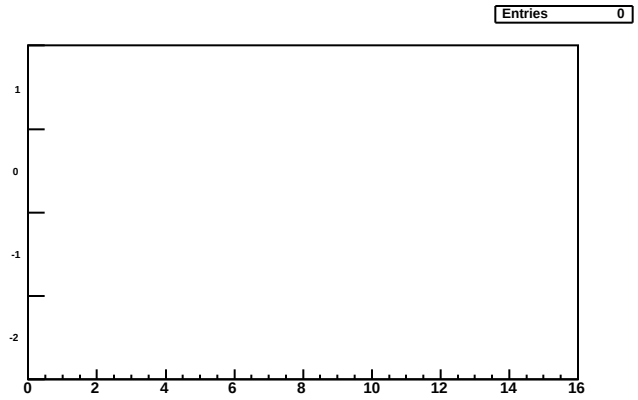


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)