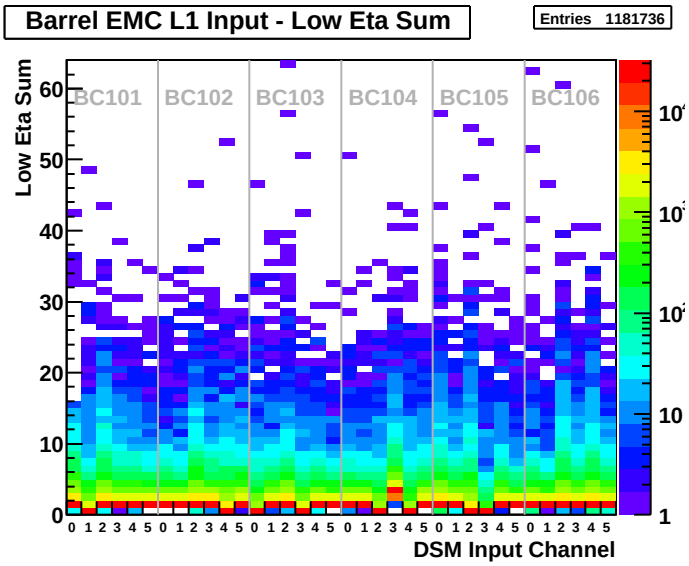
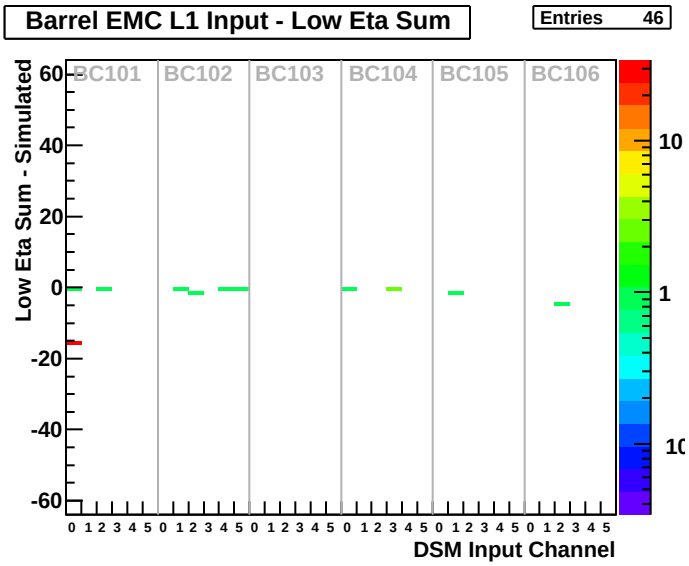
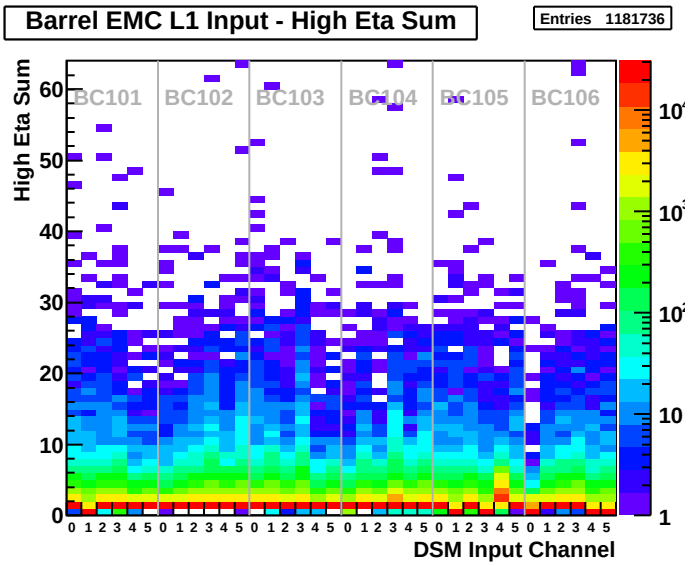
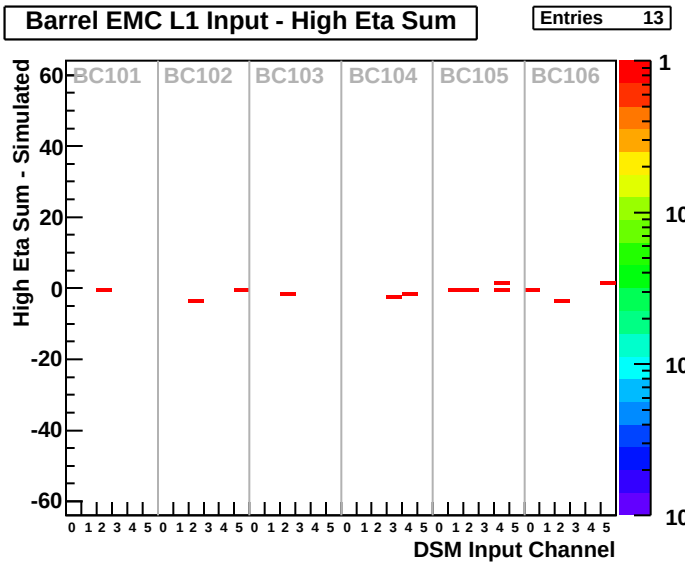
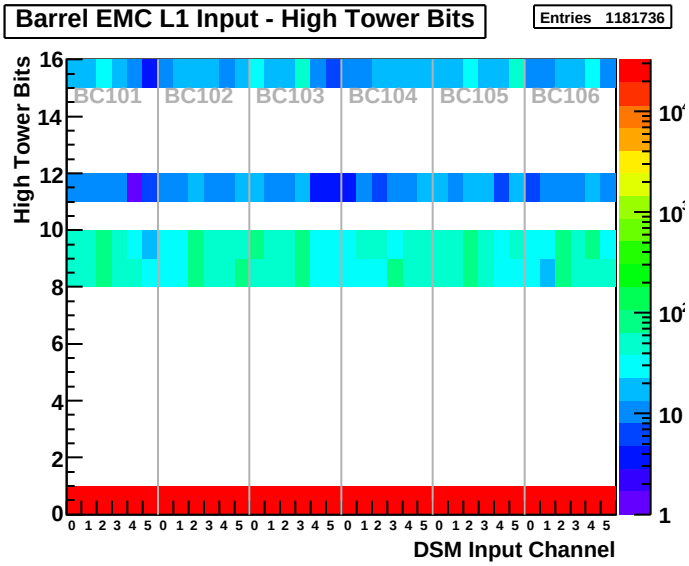
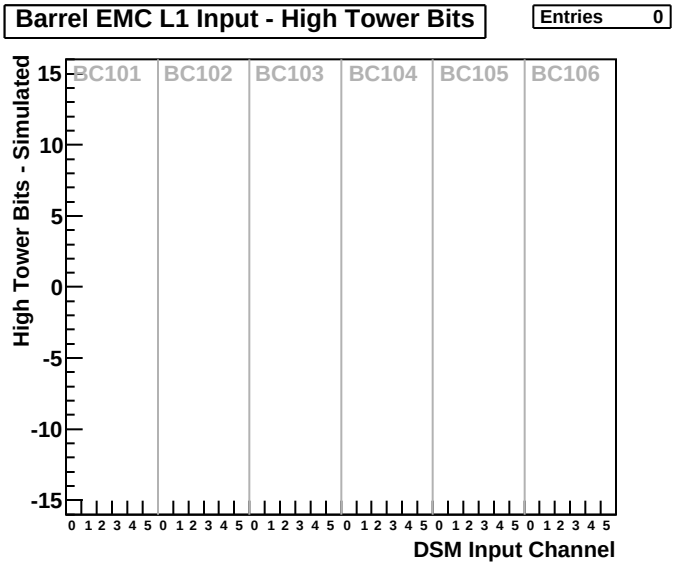

Barrel EMC L1 Input - Low Eta Sum
Entries 1181736
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

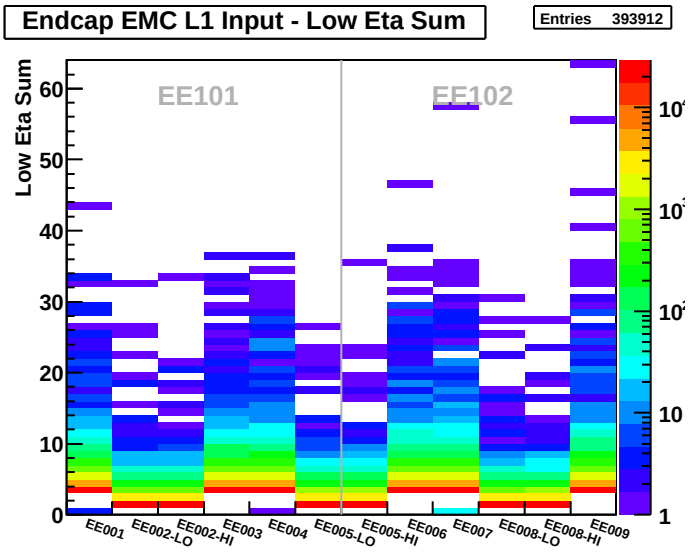

Barrel EMC L1 Input - Low Eta Sum
Entries 46
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

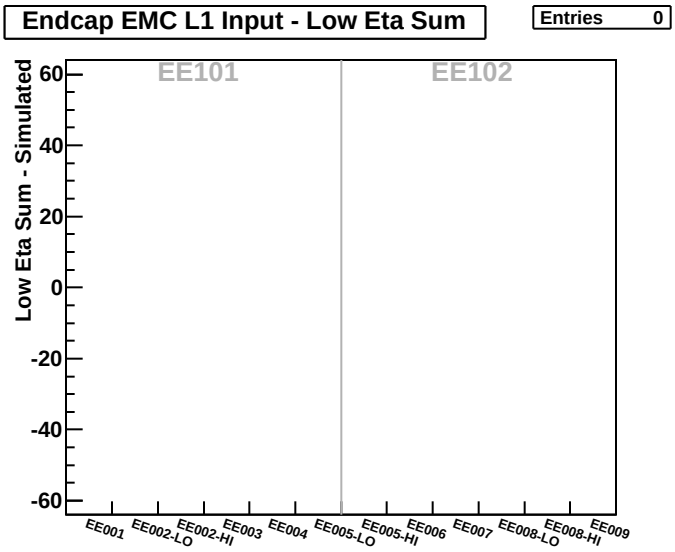

Barrel EMC L1 Input - High Eta Sum
Entries 1181736
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

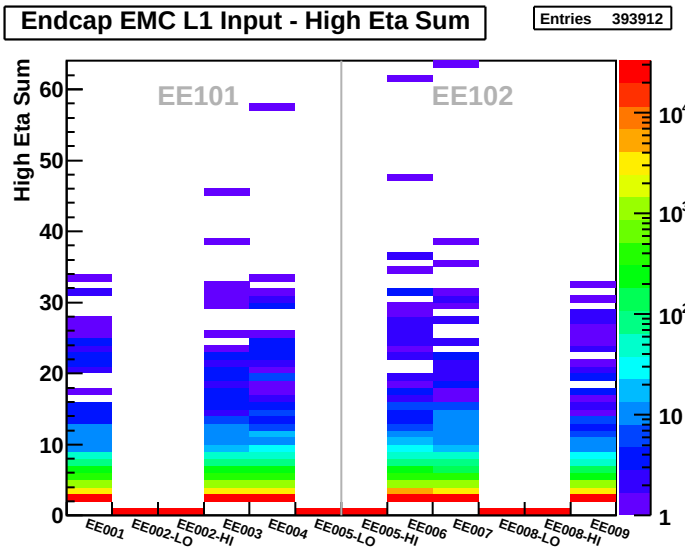

Barrel EMC L1 Input - High Eta Sum
Entries 13
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

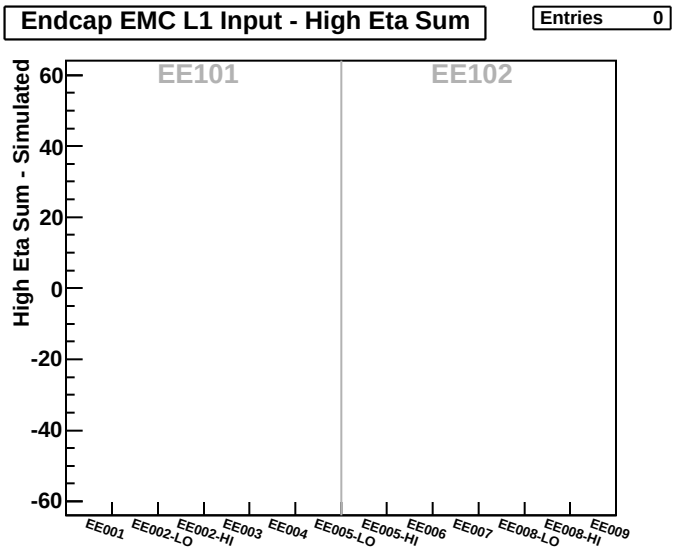

Barrel EMC L1 Input - High Tower Bits
Entries 1181736
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

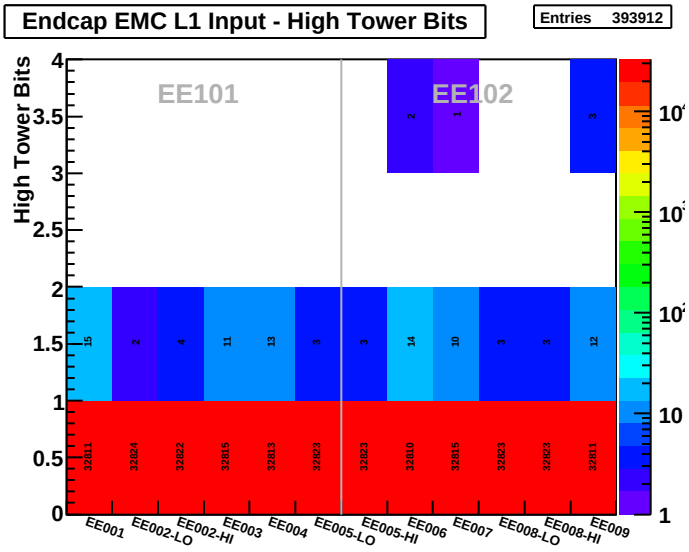

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

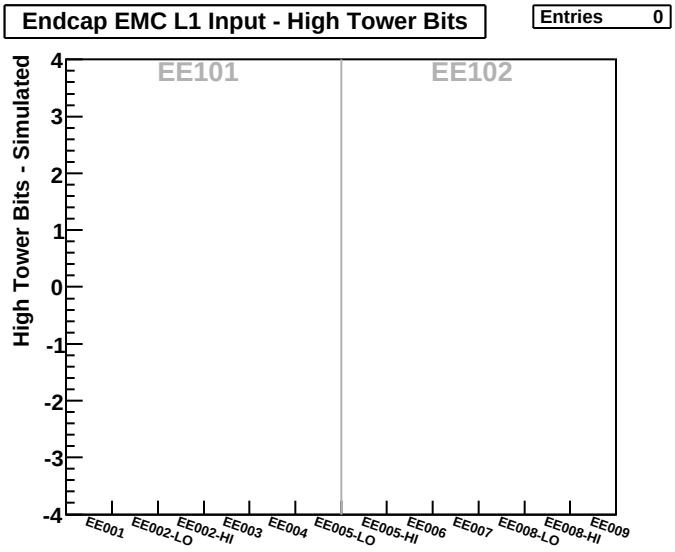

Endcap EMC L1 Input - Low Eta Sum
Entries 393912
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

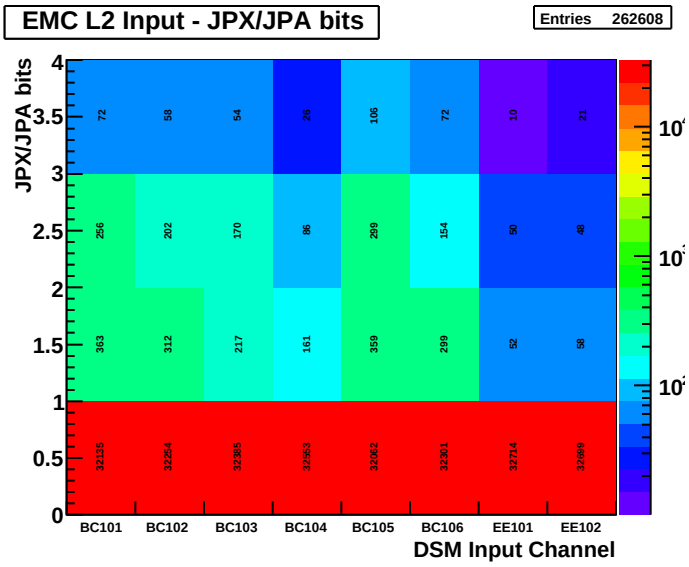

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

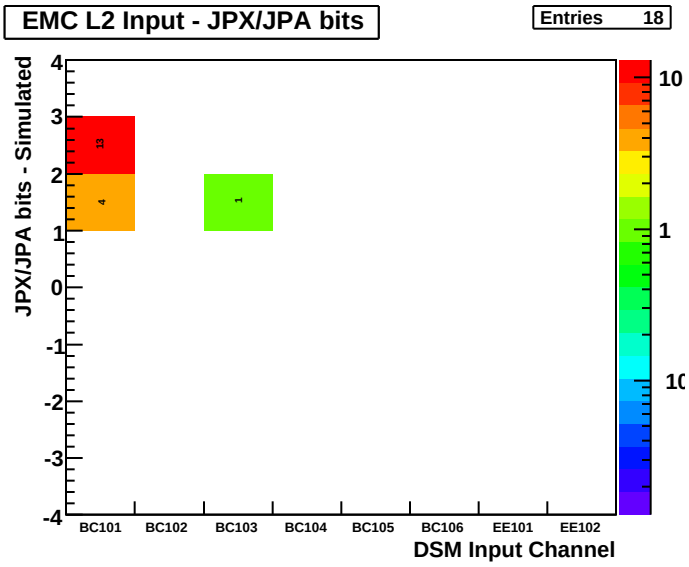

Endcap EMC L1 Input - High Eta Sum
Entries 393912
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

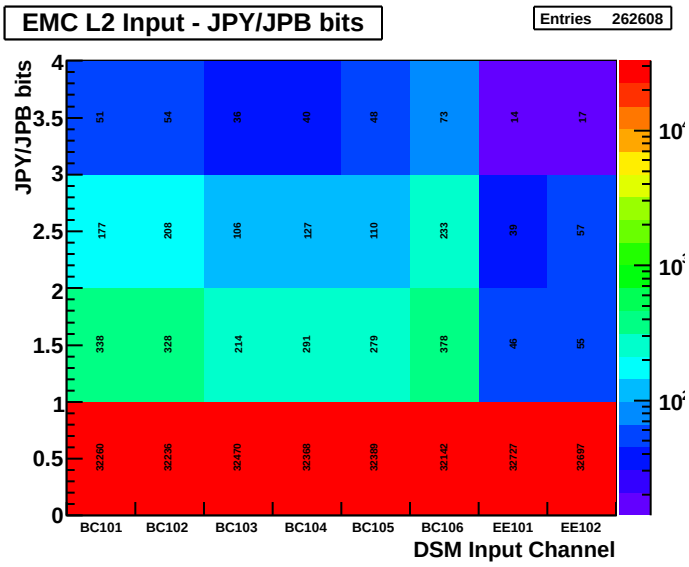

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

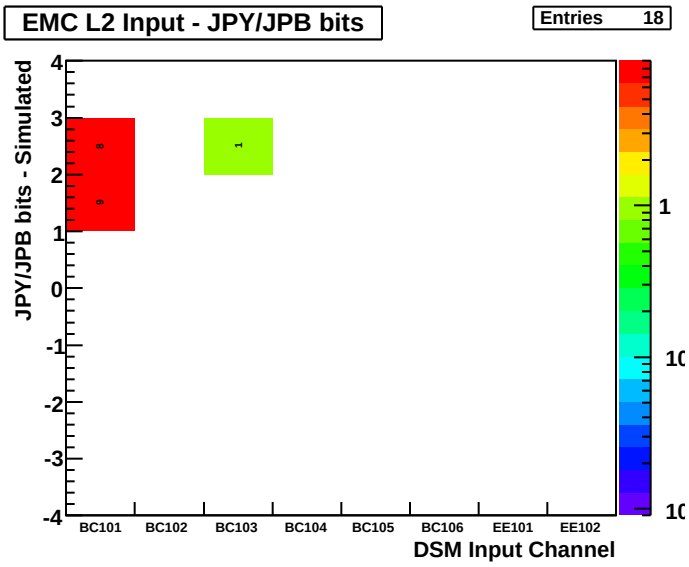

Endcap EMC L1 Input - High Tower Bits
Entries 393912
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

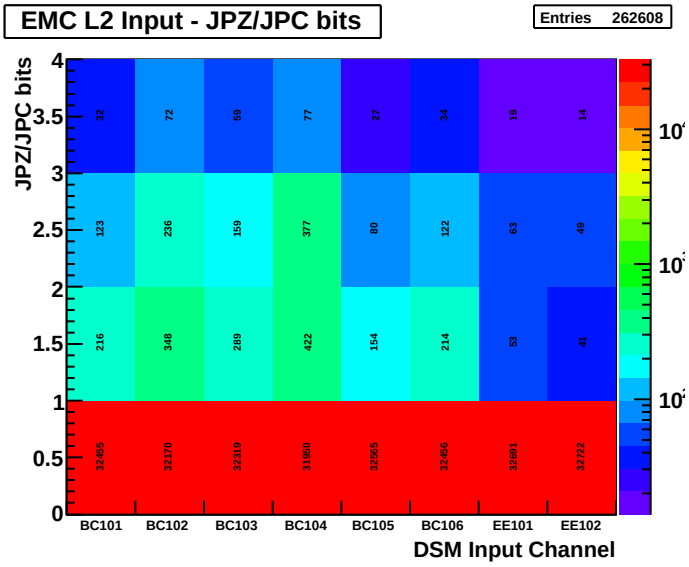

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

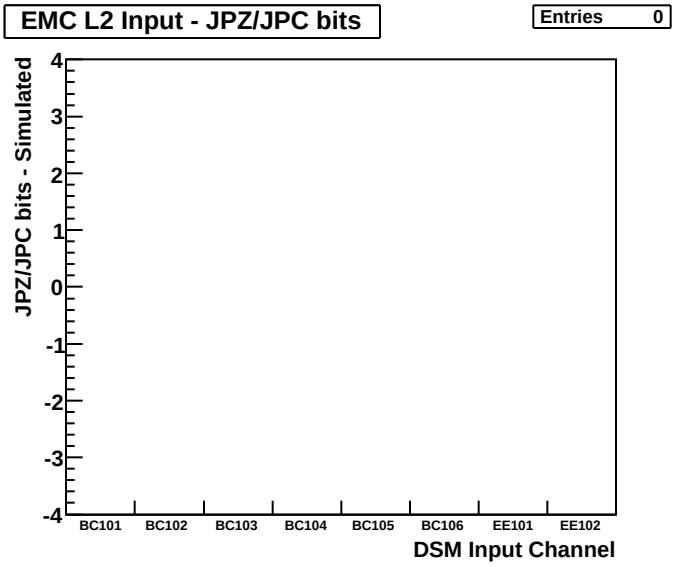

EMC L2 Input - JPX/JPA bits
Entries 262608
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
72 58 54 26 106 72 10 21
256 202 170 86 299 154 50 48
363 312 217 161 359 299 52 58
32135 32254 32385 32553 32062 32301 32714 32699

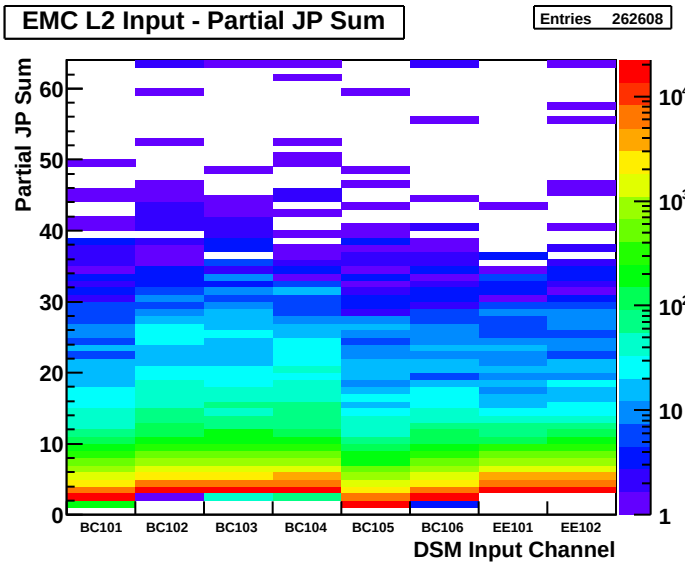

EMC L2 Input - JPX/JPA bits
Entries 18
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
13
4
1

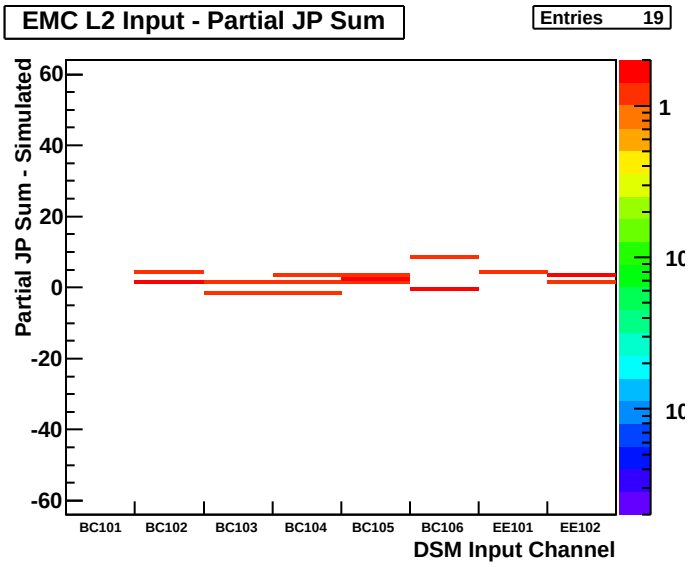

EMC L2 Input - JPY/JPB bits
Entries 262608
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
51 54 36 40 48 73 14 17
177 208 106 127 110 233 39 57
338 328 214 291 279 378 46 55
32260 32236 32470 32368 32389 32142 32727 32697

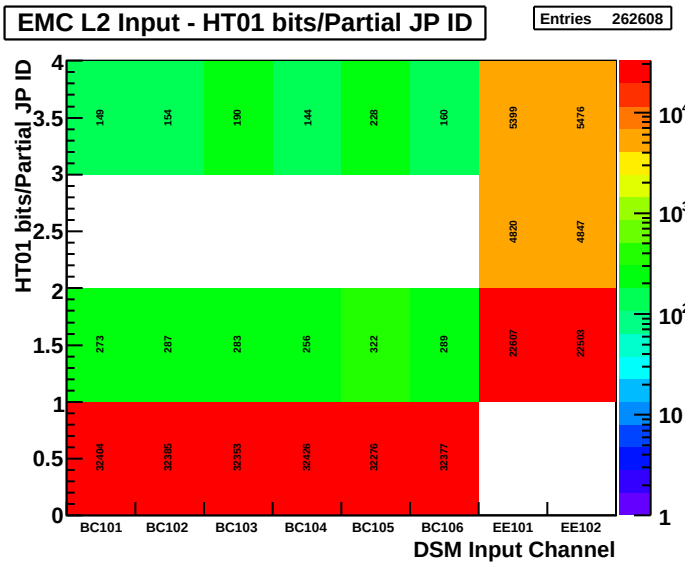

EMC L2 Input - JPY/JPB bits
Entries 18
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
8
9
1

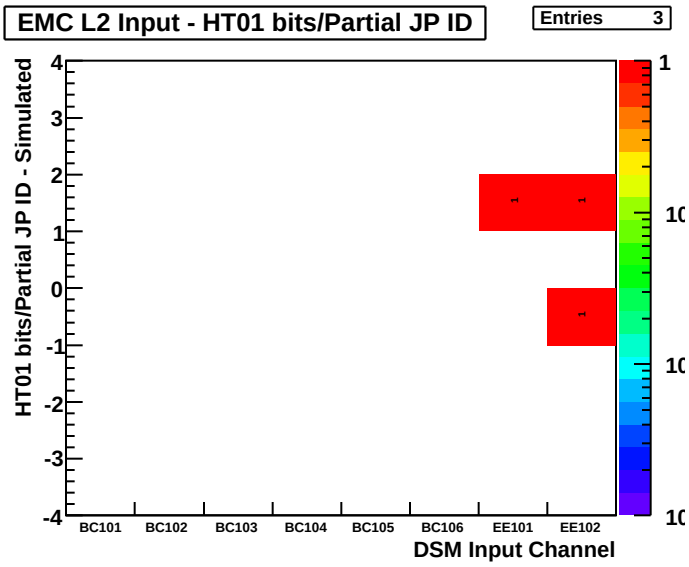

EMC L2 Input - JPZ/JPC bits
Entries 262608
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
32 72 59 77 27 34 19 14
123 236 159 377 80 122 63 49
216 348 289 422 154 214 53 41
32455 32270 32319 31950 32565 32456 32691 32722

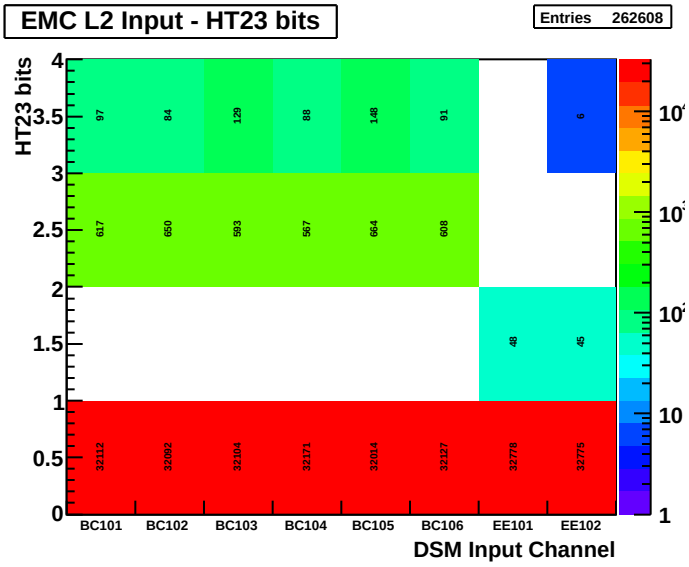

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

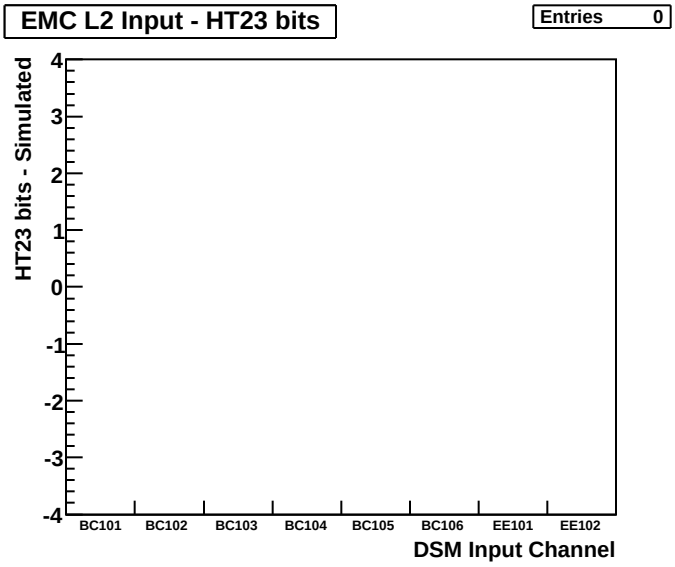

EMC L2 Input - Partial JP Sum
Entries 262608
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

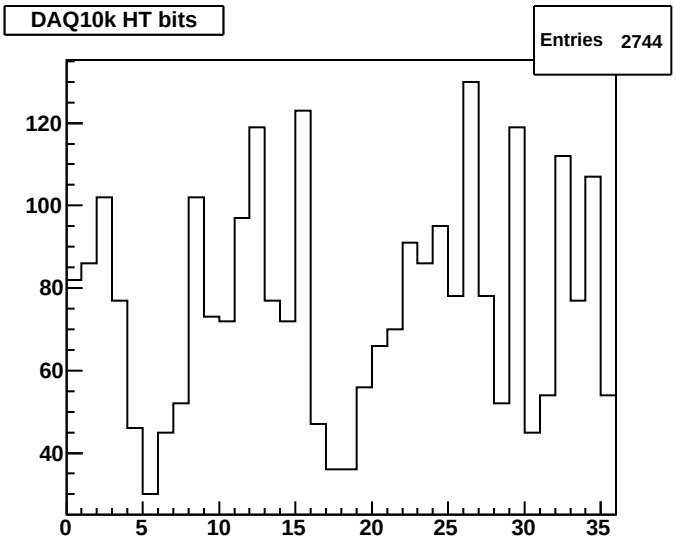

EMC L2 Input - Partial JP Sum
Entries 19
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

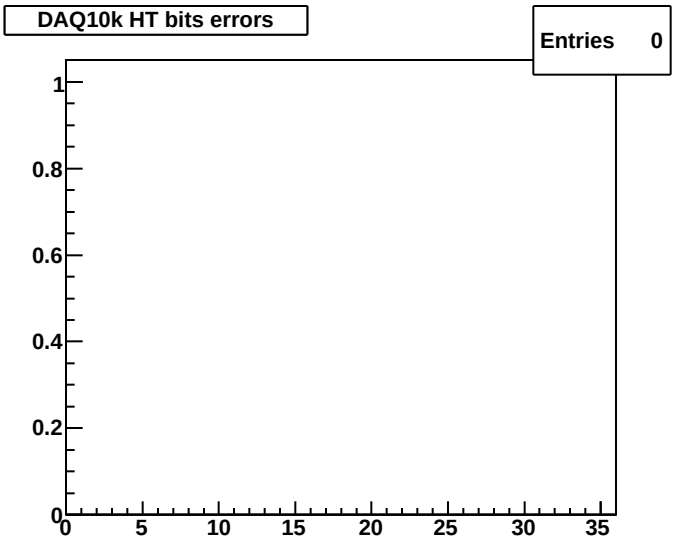

EMC L2 Input - HT01 bits/Partial JP ID
Entries 262608
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

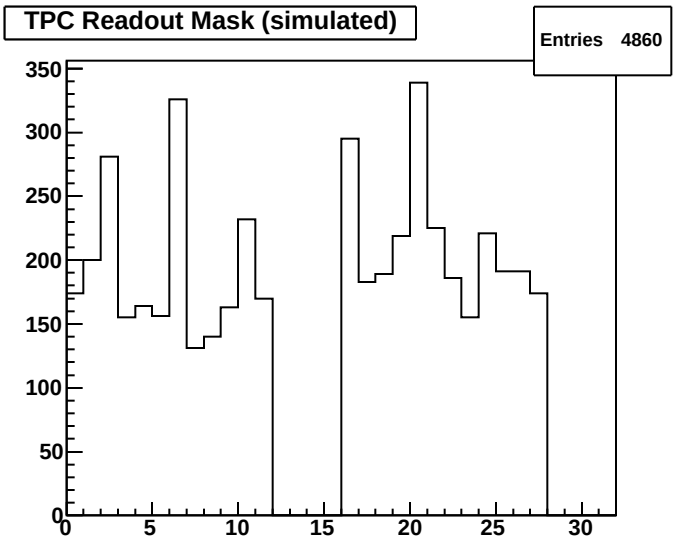

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

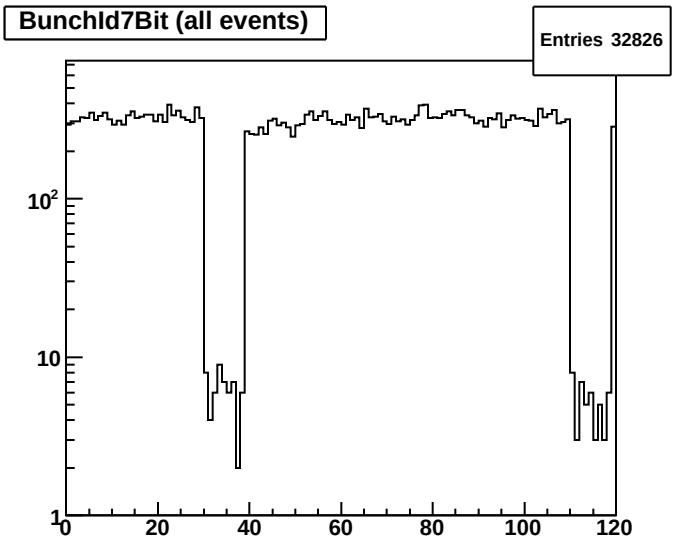

EMC L2 Input - HT23 bits
Entries 262608
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

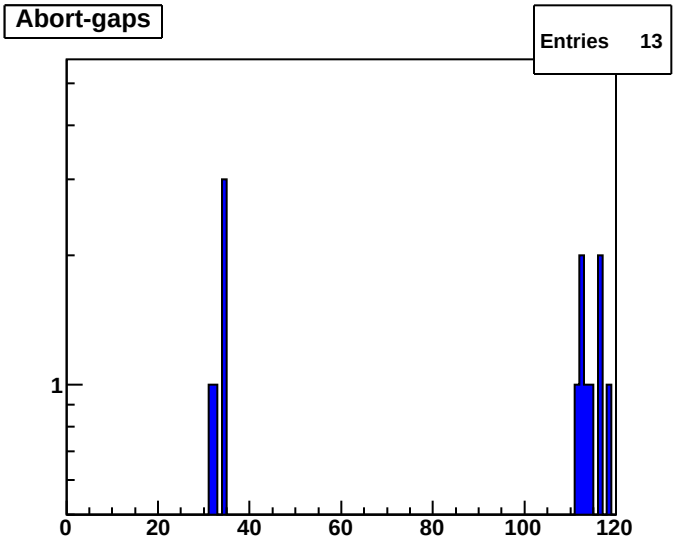

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

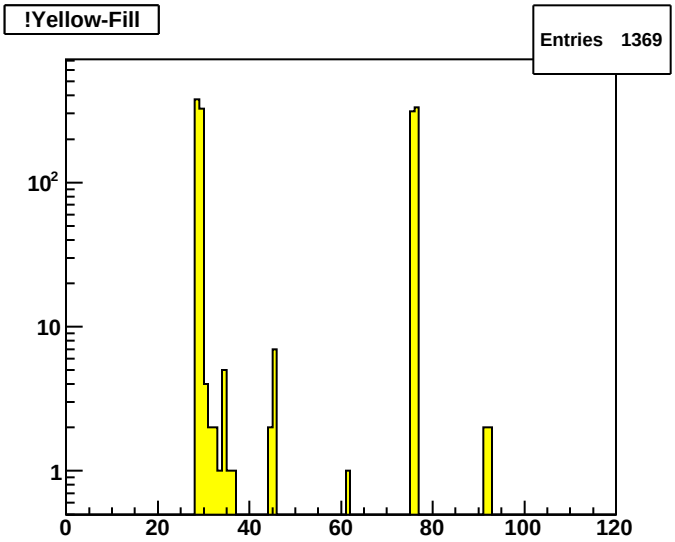

DAQ10k HT bits
Entries 2744

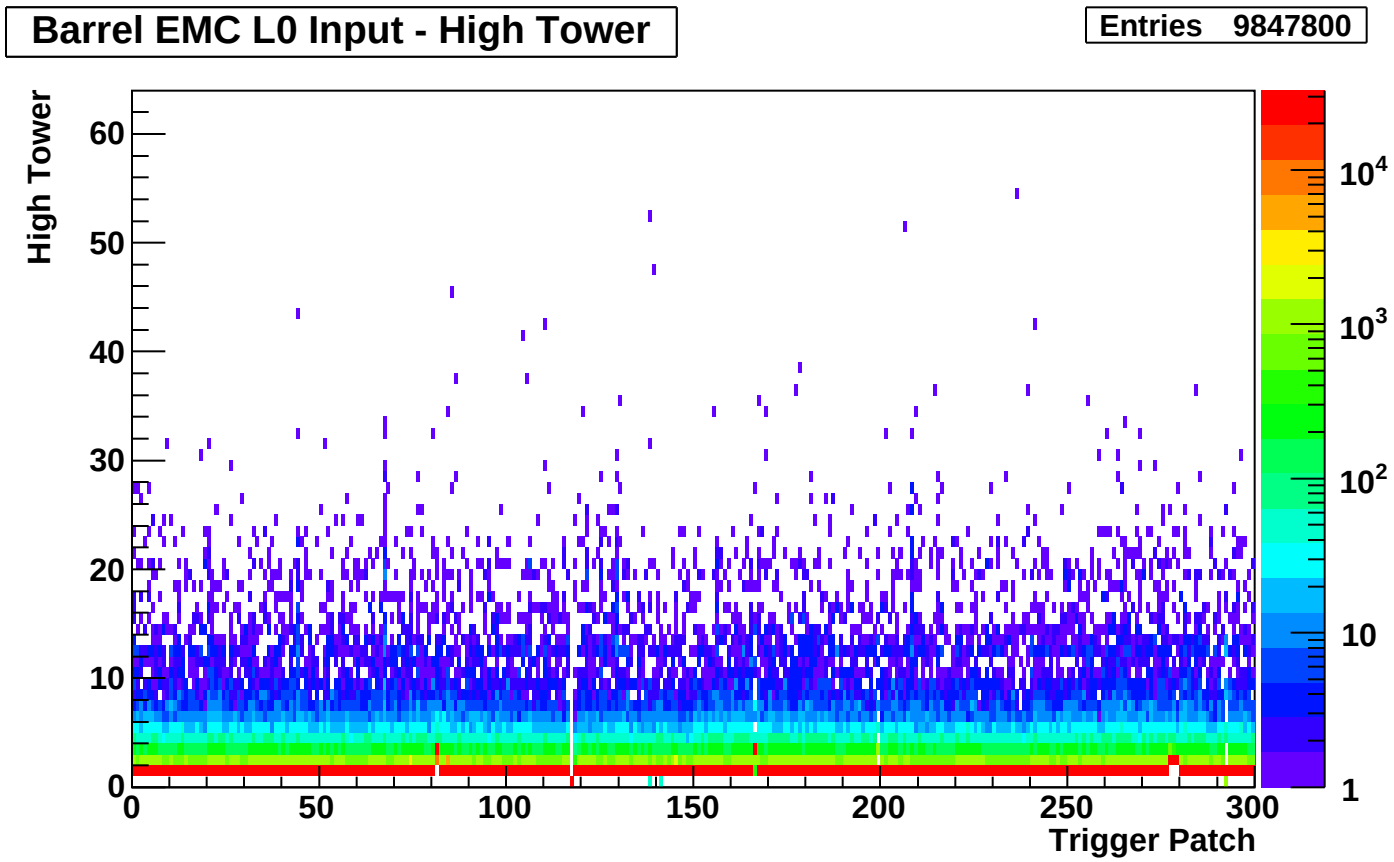

DAQ10k HT bits errors
Entries 0

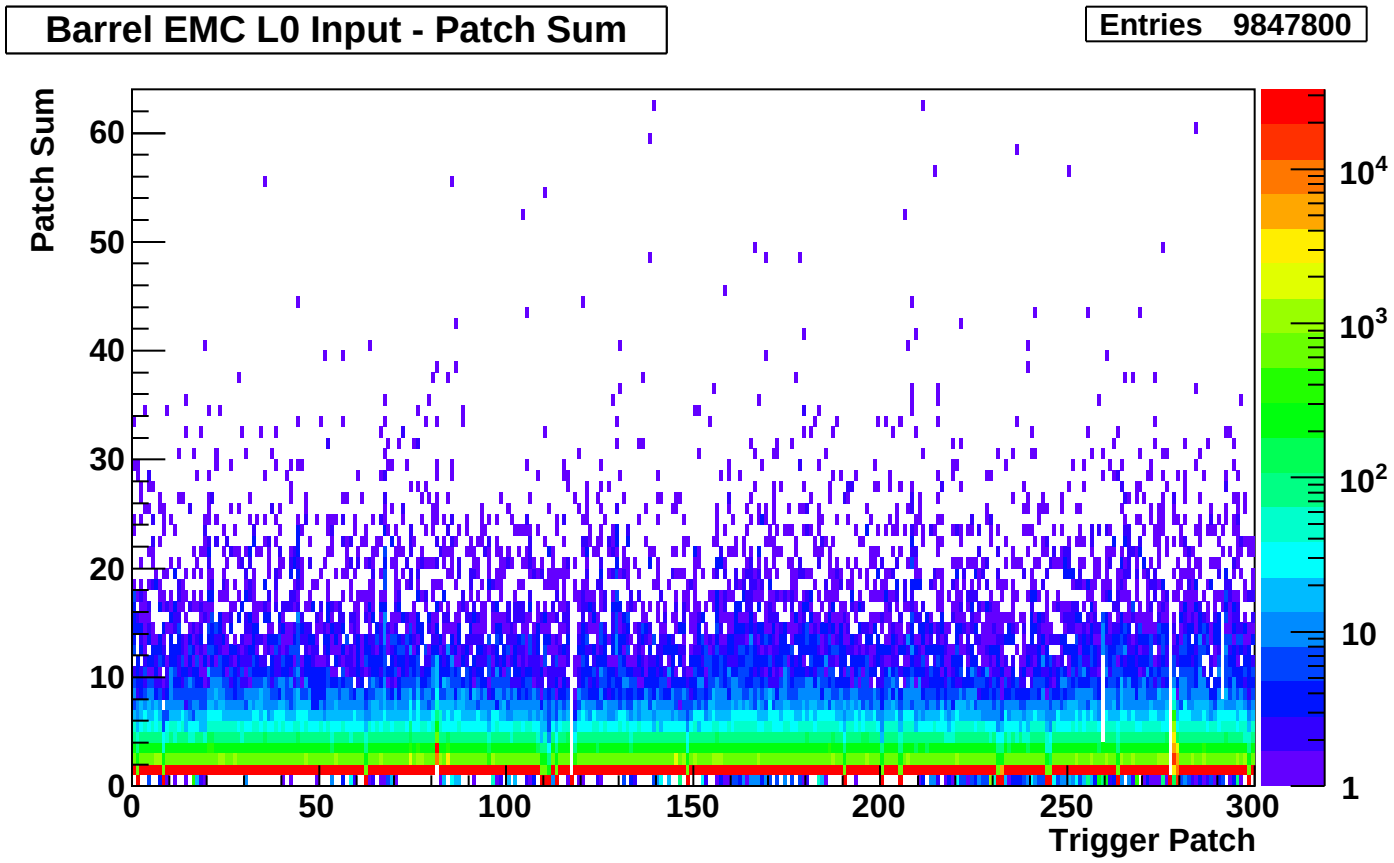

TPC Readout Mask (simulated)
Entries 4860

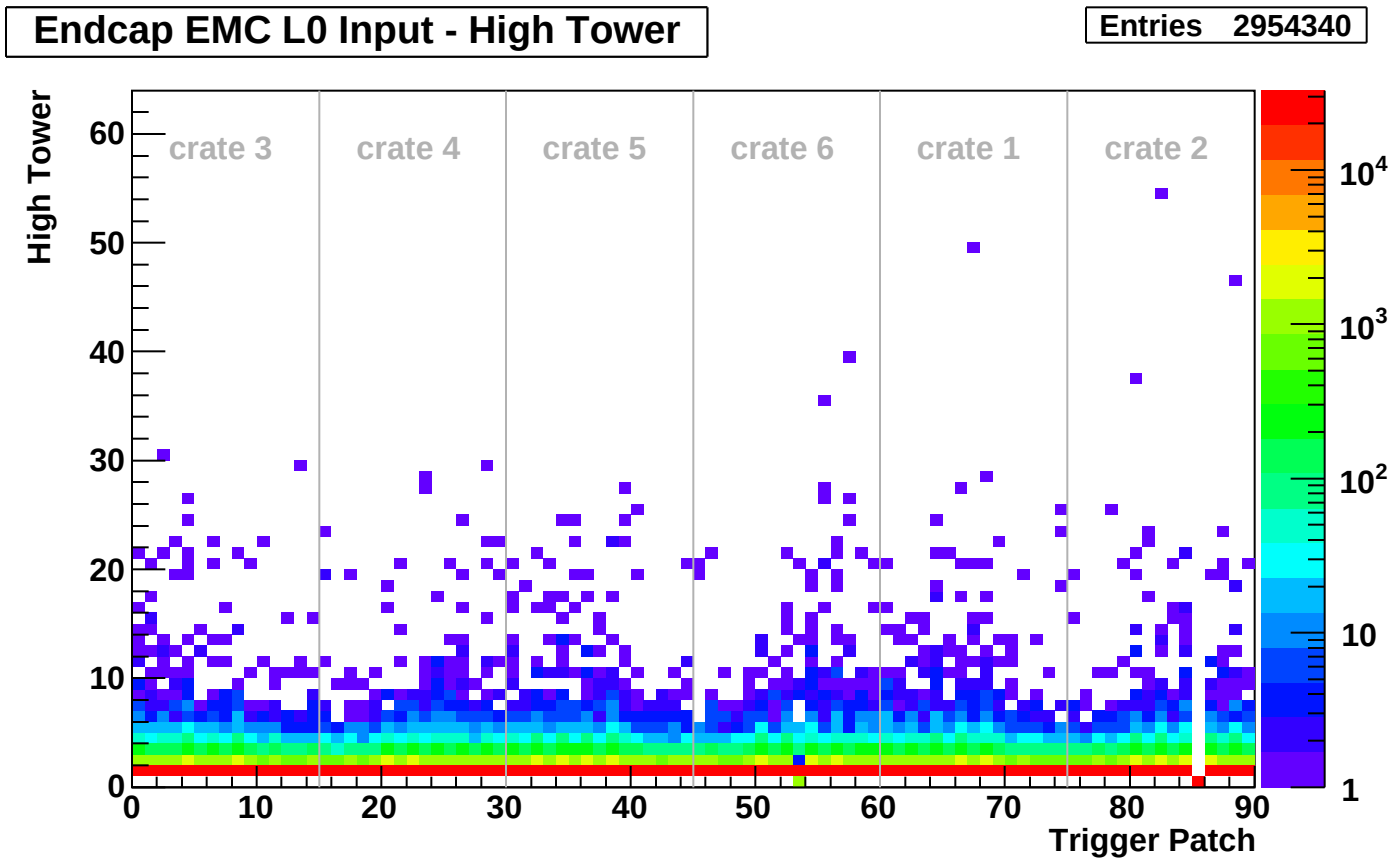

BunchId7Bit (all events)
Entries 32826

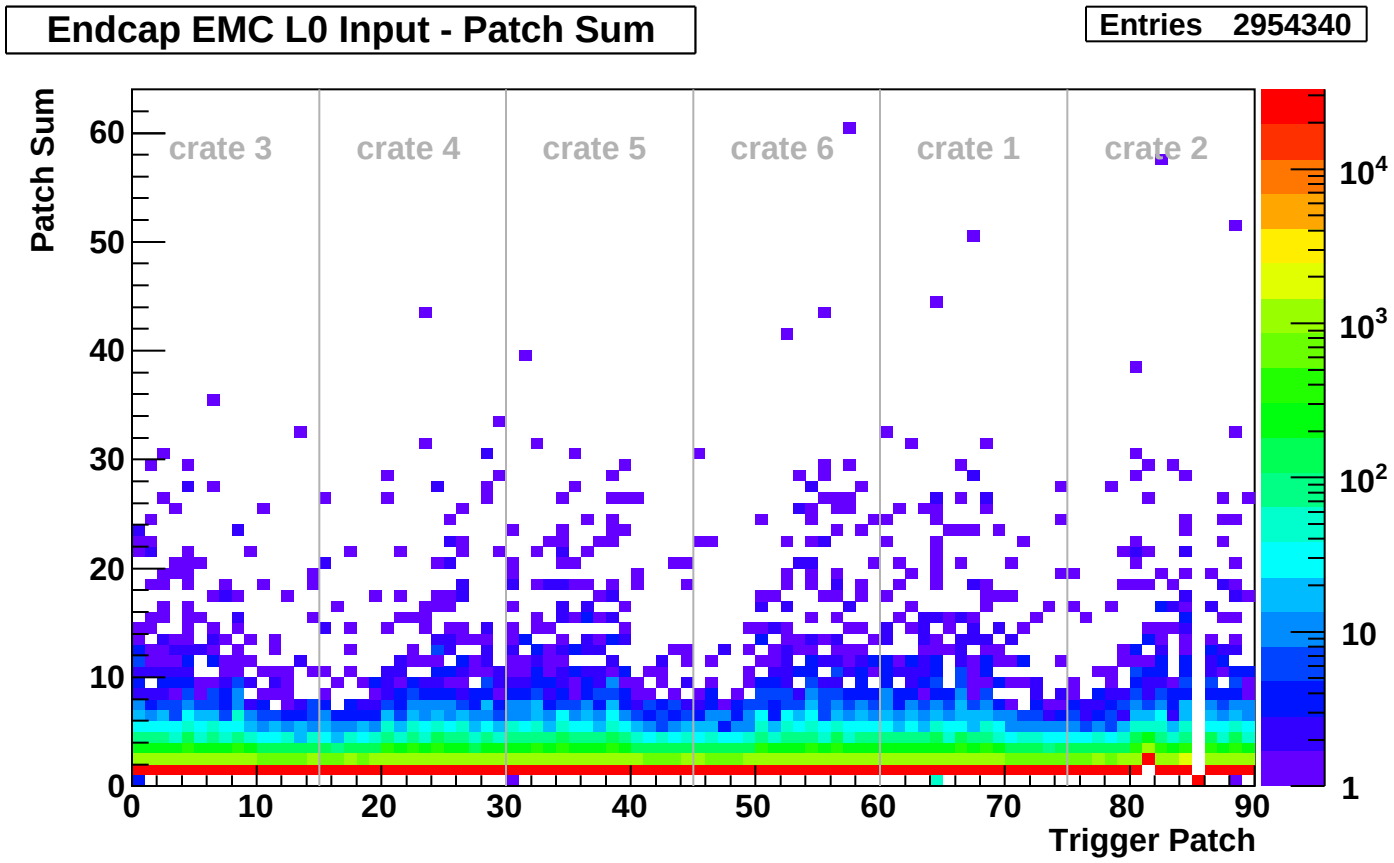

Abort-gaps
Entries 13

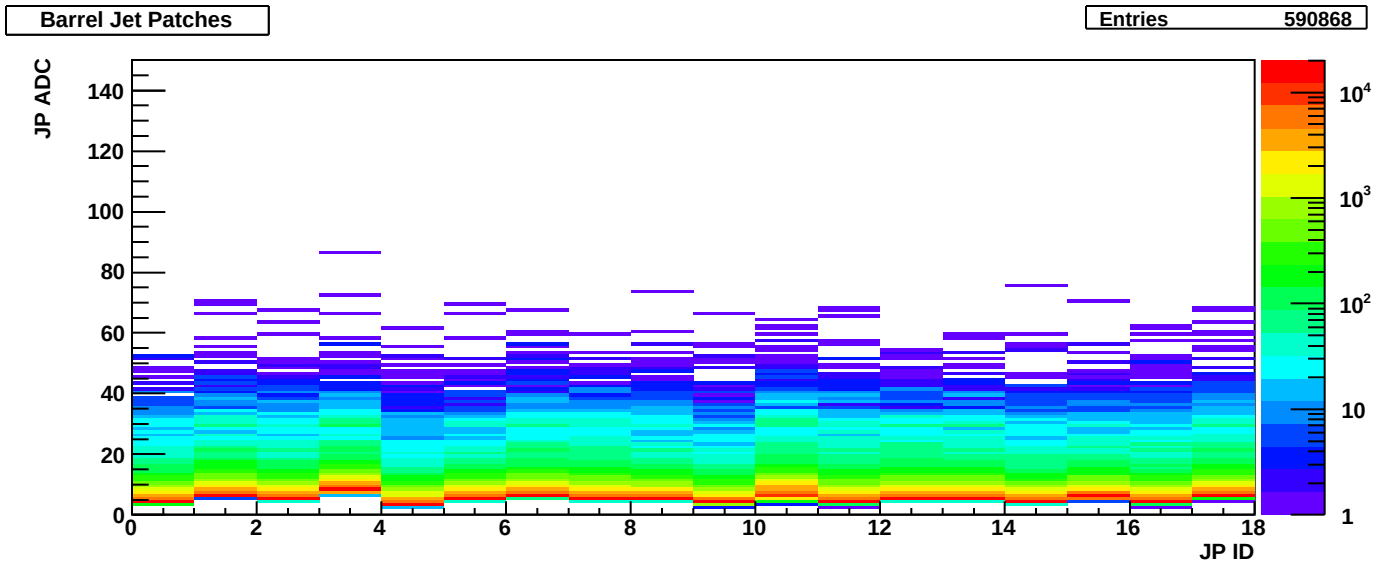

!Yellow-Fill
Entries 1369

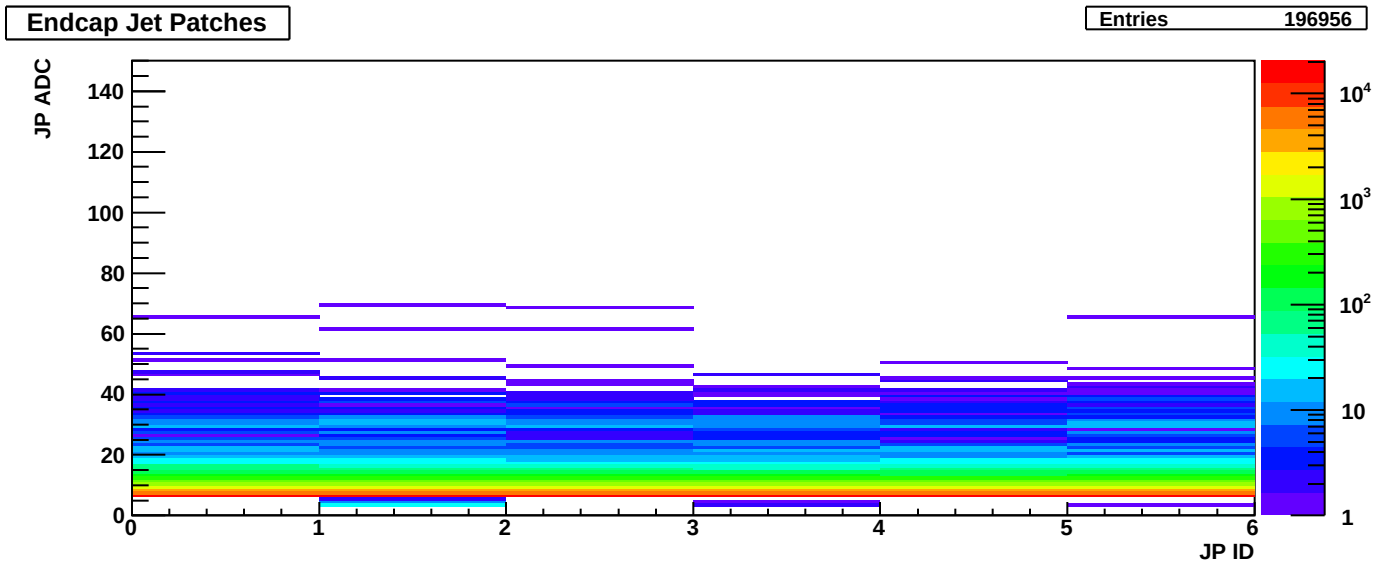

Barrel EMC L0 Input - High Tower
Entries 9847800
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

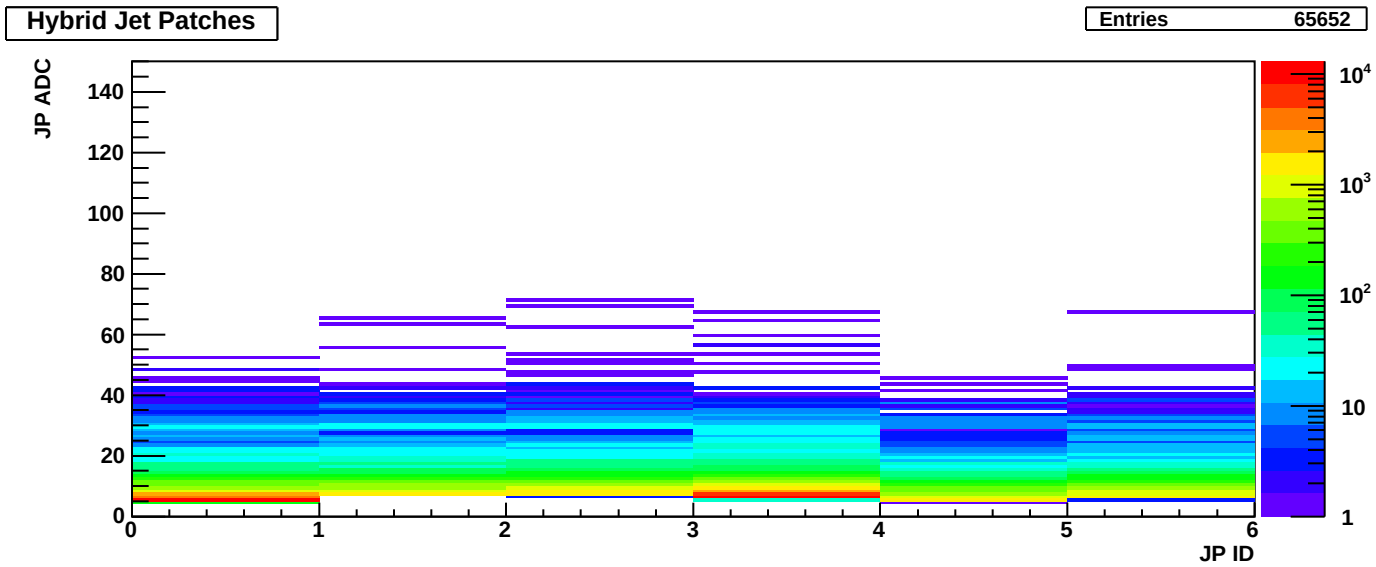

Barrel EMC L0 Input - Patch Sum
Entries 9847800
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

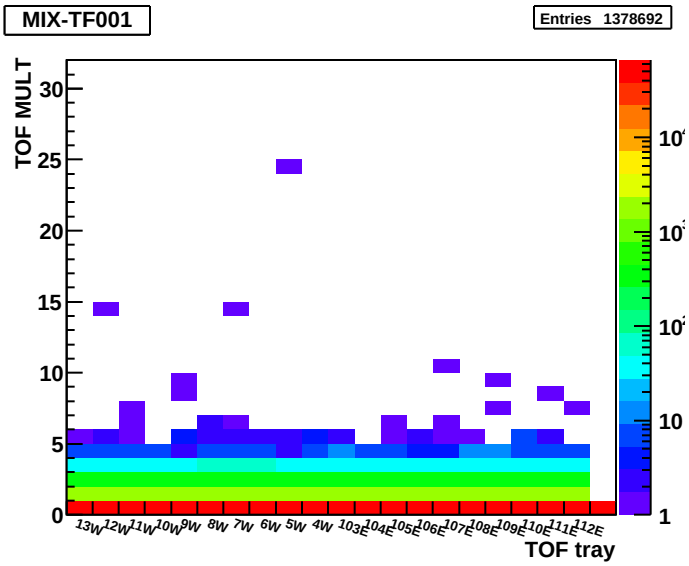

Endcap EMC L0 Input - High Tower
Entries 2954340
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

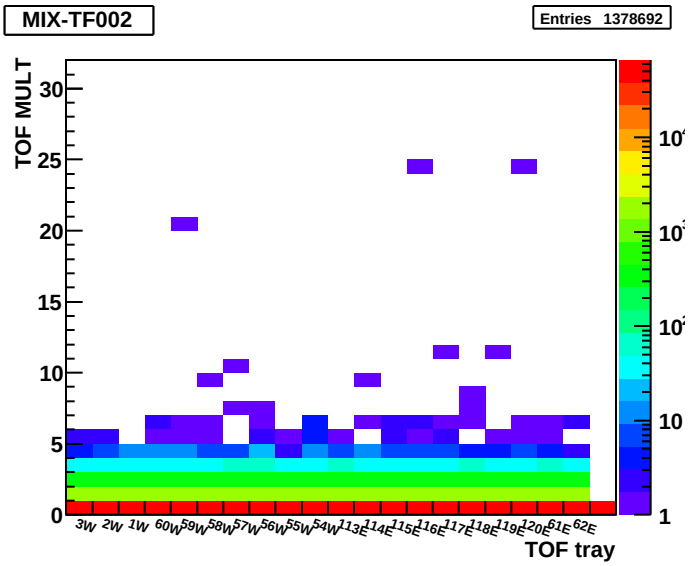

Endcap EMC L0 Input - Patch Sum
Entries 2954340
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

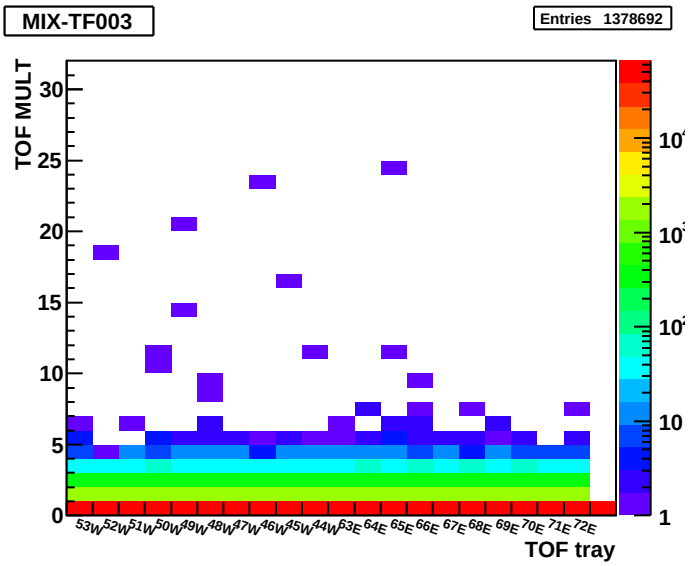

Barrel Jet Patches
Entries 590868
JP ADC
JP ID

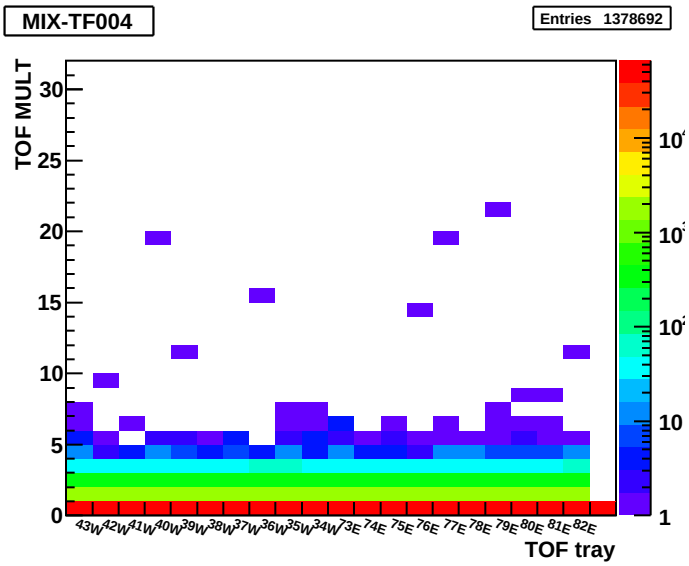

Endcap Jet Patches
Entries 196956
JP ADC
JP ID

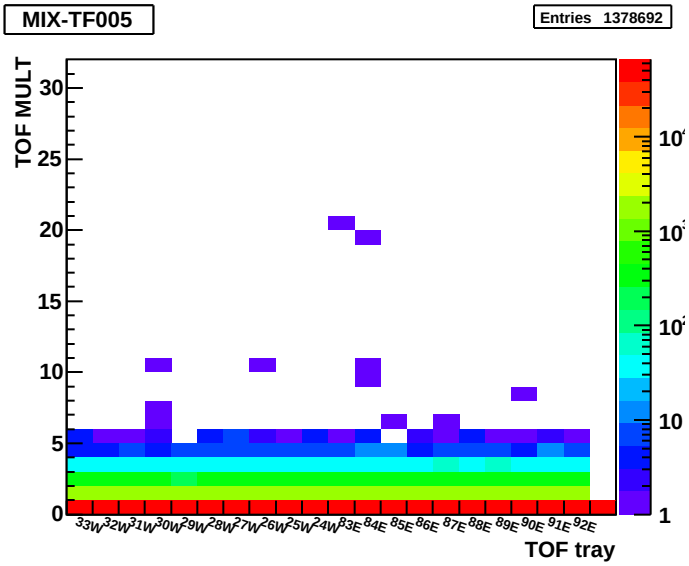

Hybrid Jet Patches
Entries 65652
JP ADC
JP ID

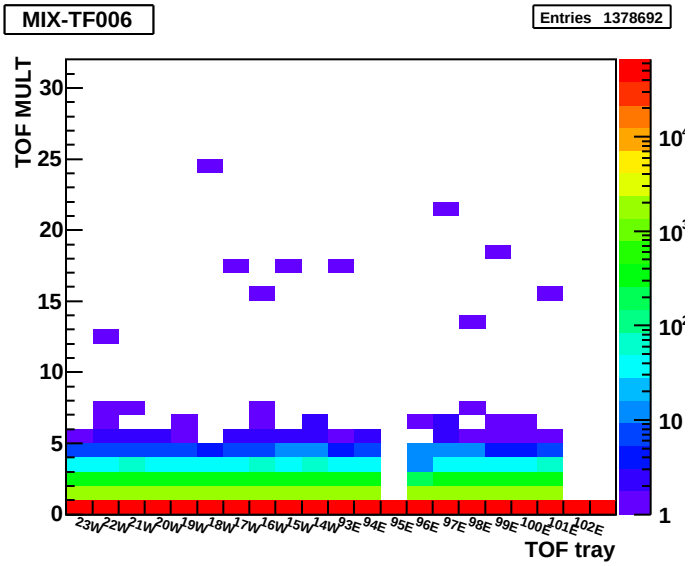

MIX-TF001
Entries 1378692
TOF MULT
TOF tray

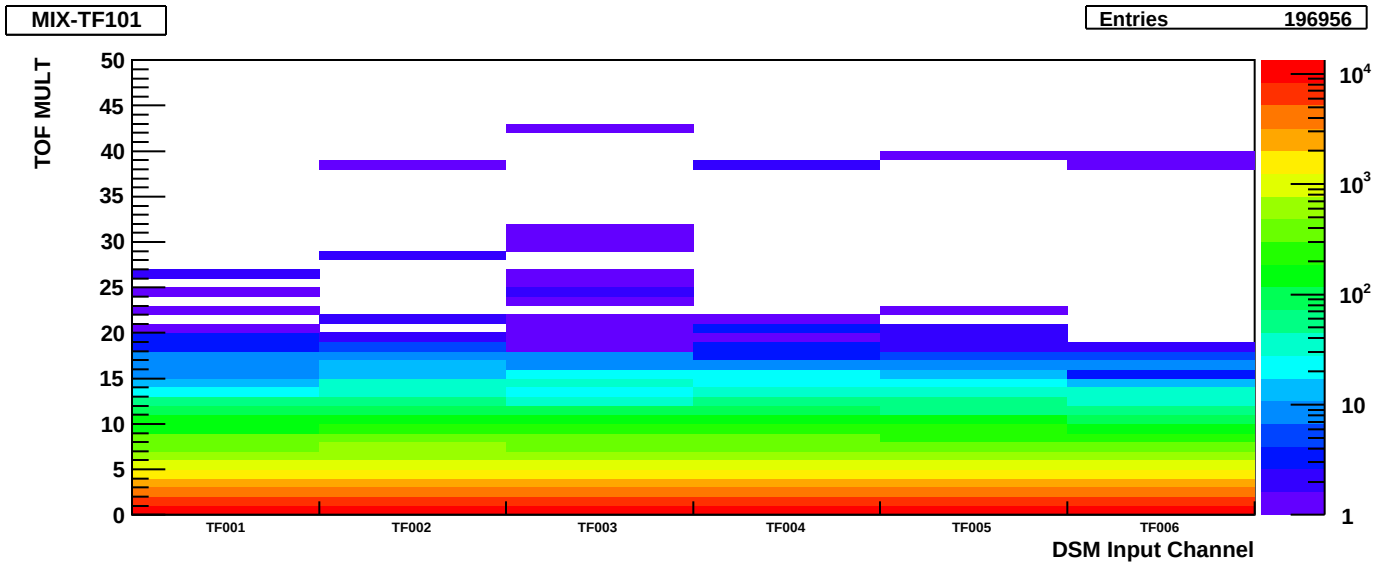

MIX-TF002
Entries 1378692
TOF MULT
TOF tray

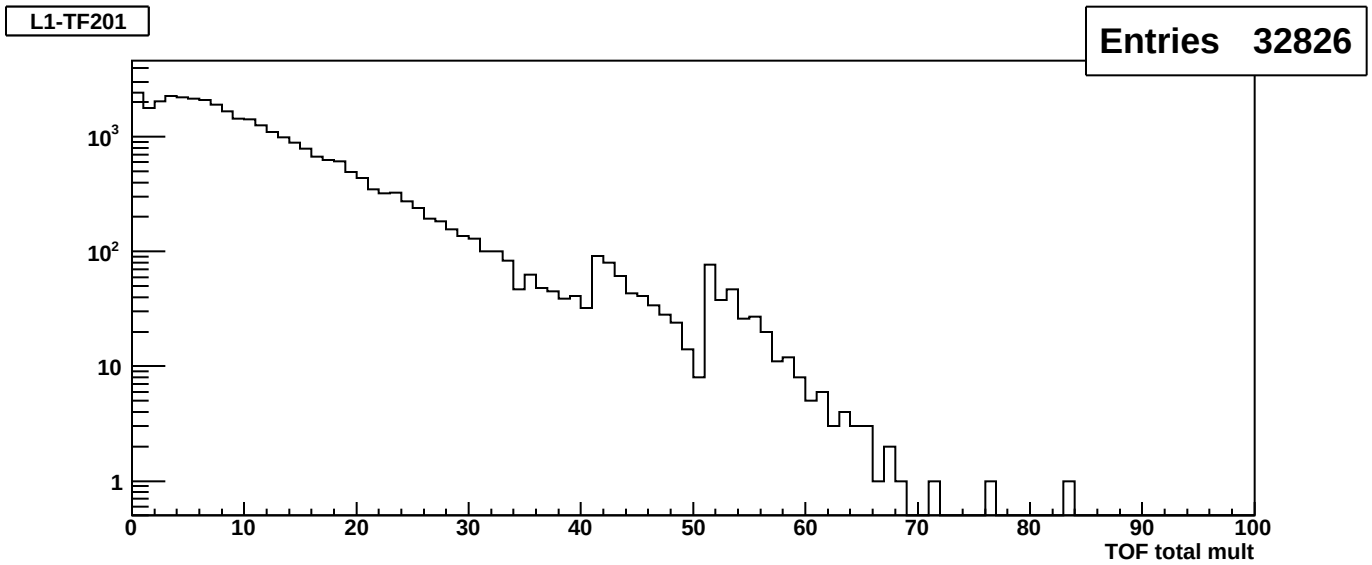

MIX-TF003
Entries 1378692
TOF MULT
TOF tray

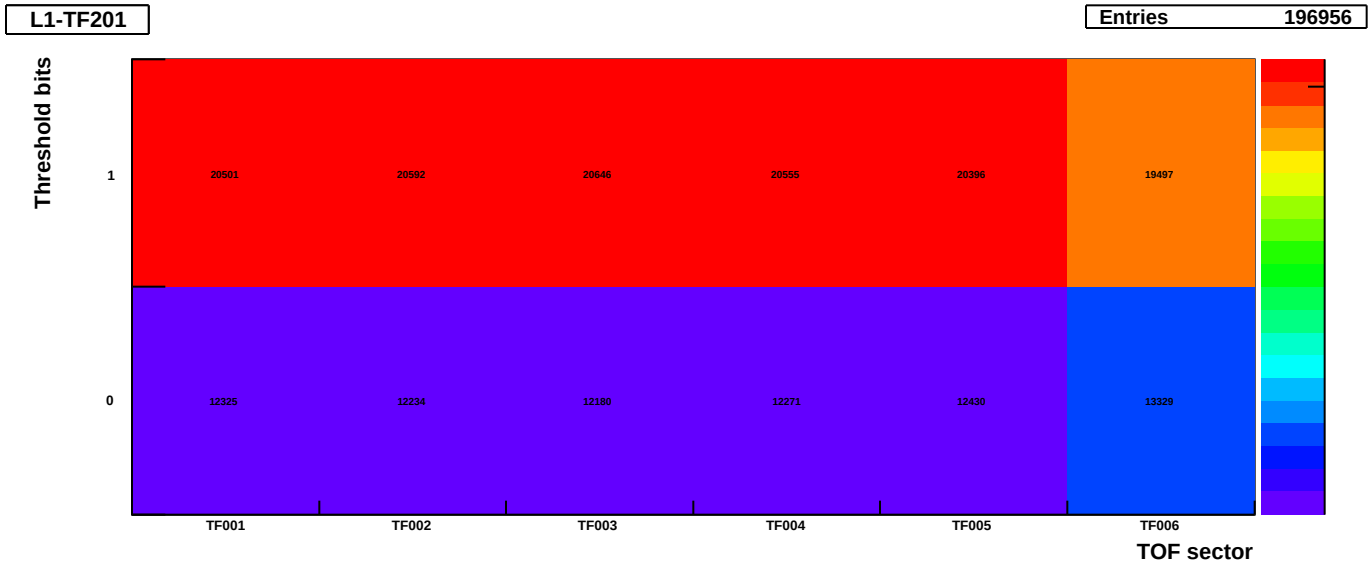

MIX-TF004
Entries 1378692
TOF MULT
TOF tray

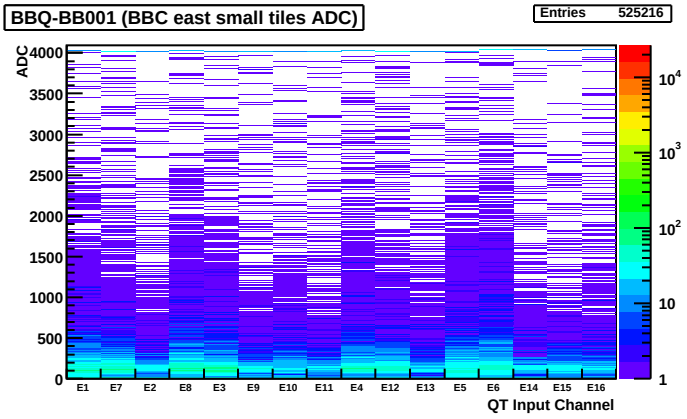

MIX-TF005
Entries 1378692
TOF MULT
TOF tray

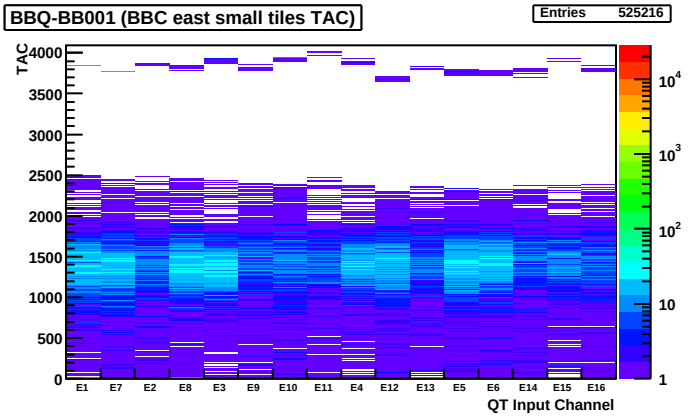

MIX-TF006
Entries 1378692
TOF MULT
TOF tray

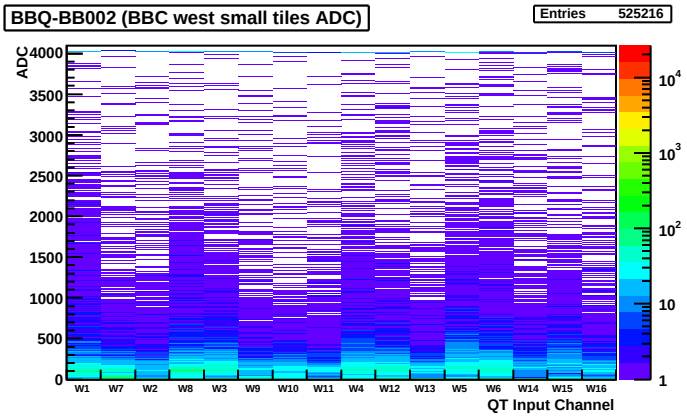

MIX-TF101
Entries 196956
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

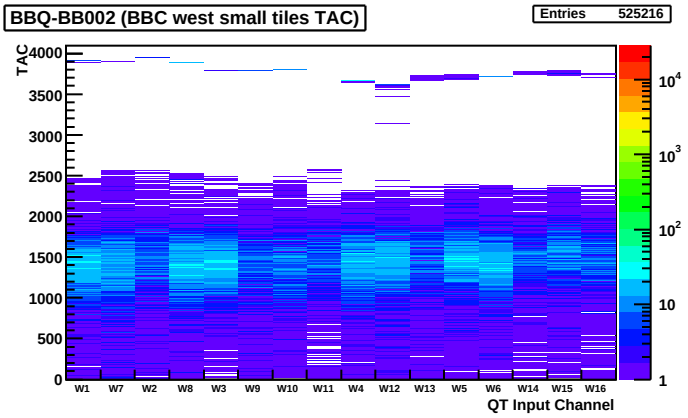

L1-TF201
Entries 32826
TOF total mult

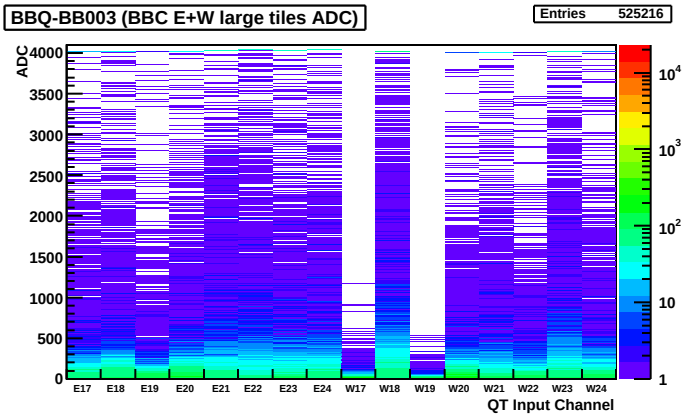

L1-TF201
Entries 196956
Threshold bits
20501
20592
20646
20555
20396
19497
12325
12234
12180
12271
12430
13329
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

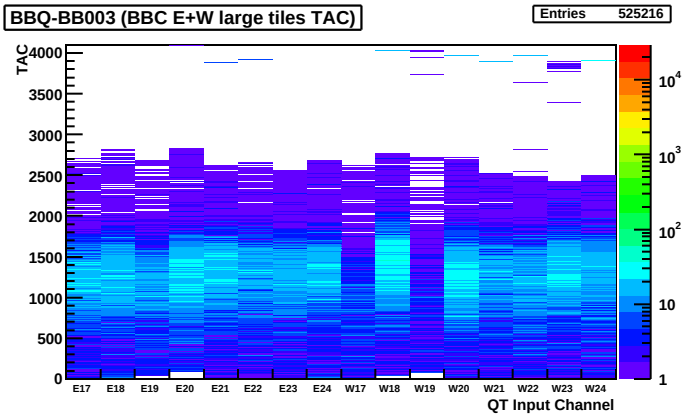

BBQ-BB001 (BBC east small tiles ADC)
Entries 525216
ADC
QT Input Channel

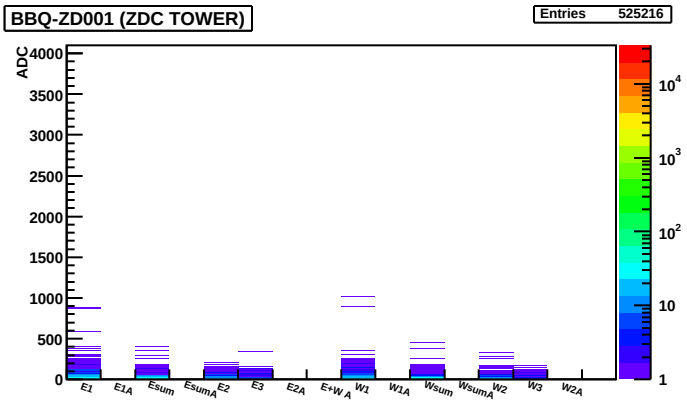

BBQ-BB001 (BBC east small tiles TAC)
Entries 525216
TAC
QT Input Channel

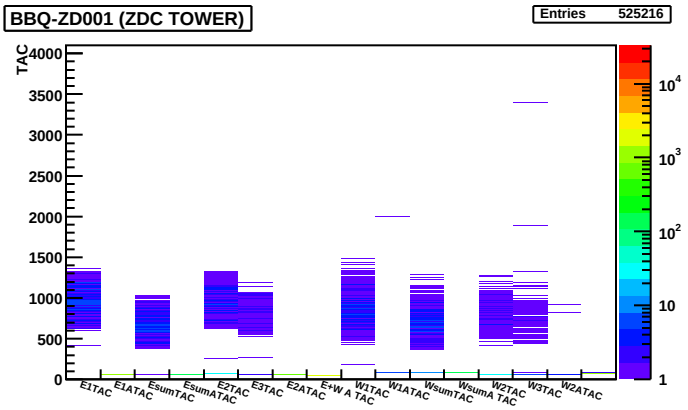

BBQ-BB002 (BBC west small tiles ADC)
Entries 525216
ADC
QT Input Channel

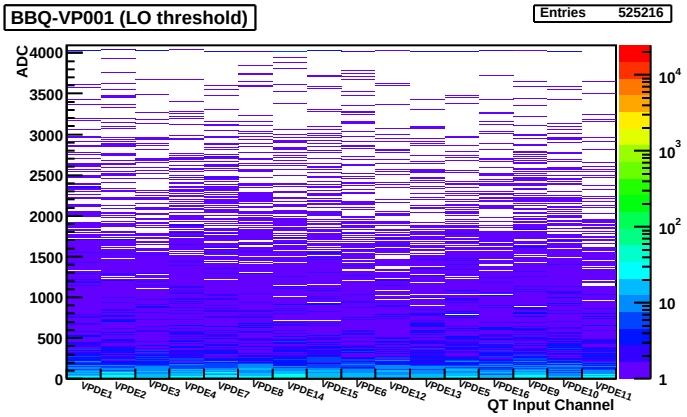

BBQ-BB002 (BBC west small tiles TAC)
Entries 525216
TAC
QT Input Channel

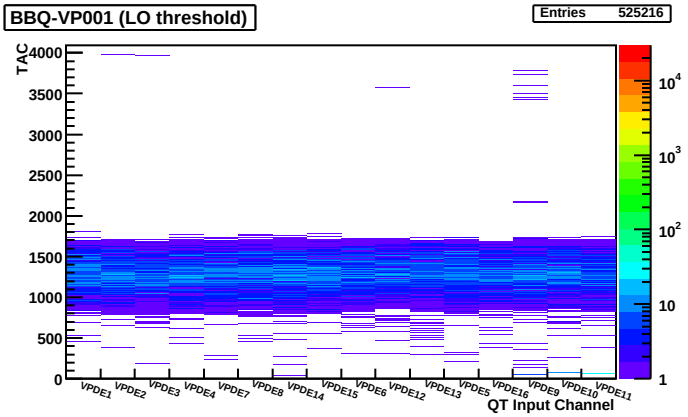

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 525216
ADC
QT Input Channel

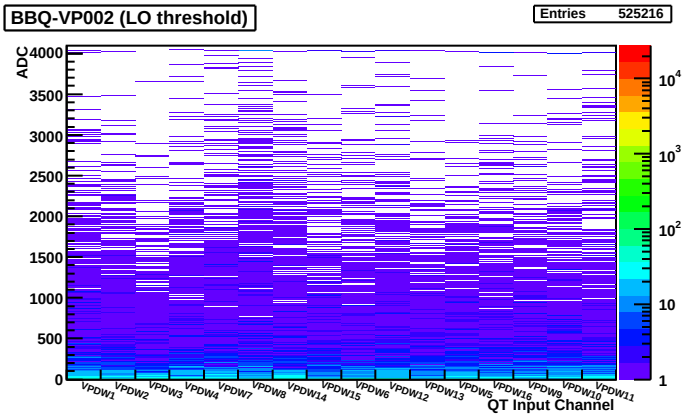

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 525216
TAC
QT Input Channel

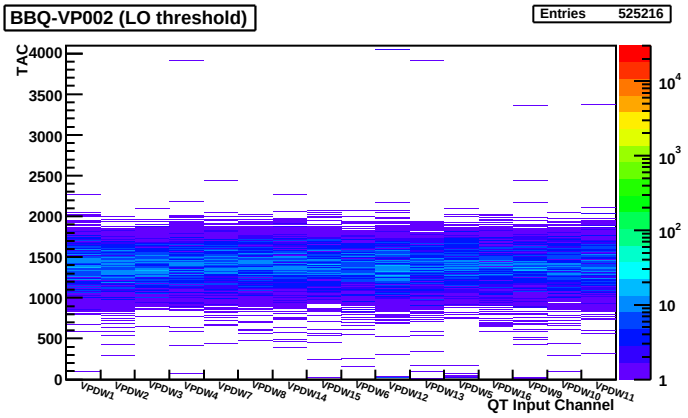

BBQ-ZD001 (ZDC TOWER)
Entries 525216
ADC

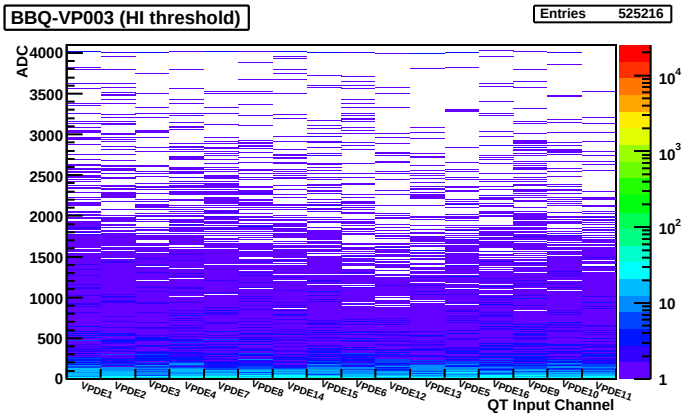

BBQ-ZD001 (ZDC TOWER)
Entries 525216
TAC

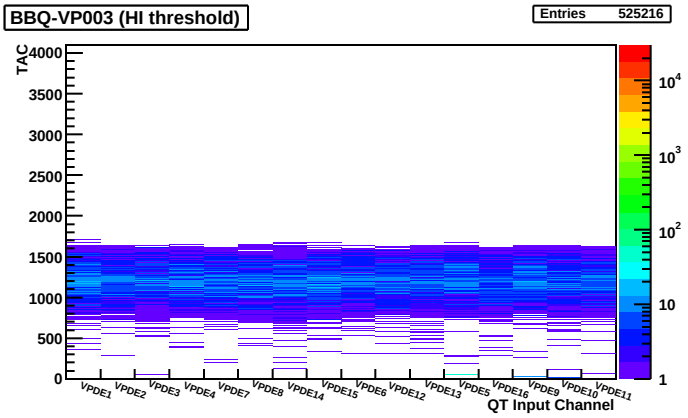

BBQ-VP001 (LO threshold)
Entries 525216
ADC
QT Input Channel

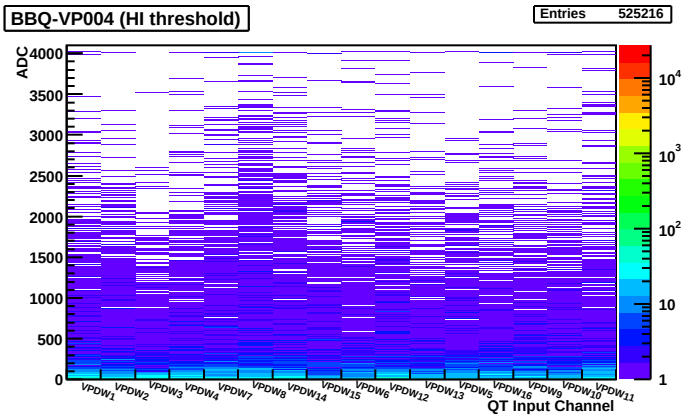

BBQ-VP001 (LO threshold)
Entries 525216
TAC
QT Input Channel

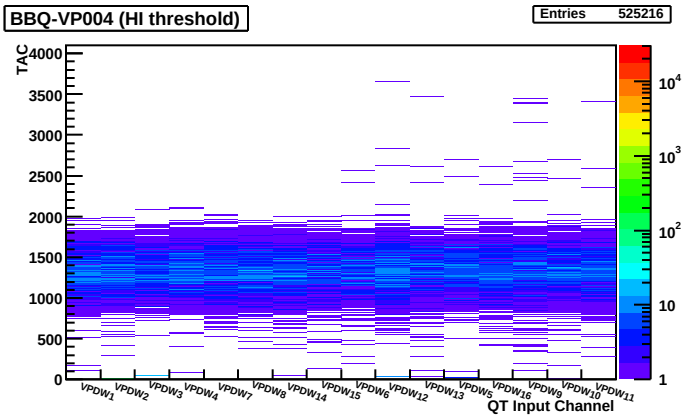

BBQ-VP002 (LO threshold)
Entries 525216
ADC
QT Input Channel

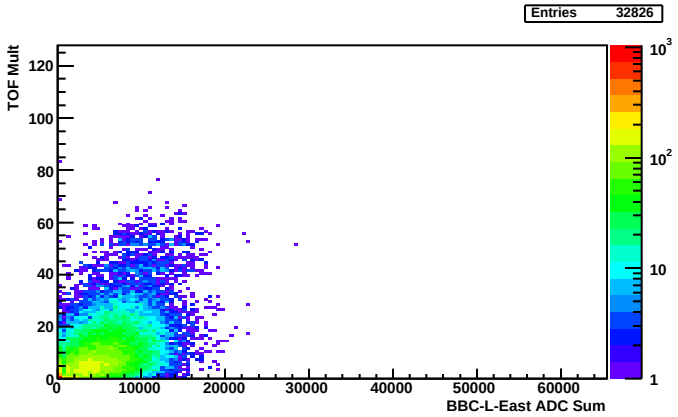

BBQ-VP002 (LO threshold)
Entries 525216
TAC
QT Input Channel

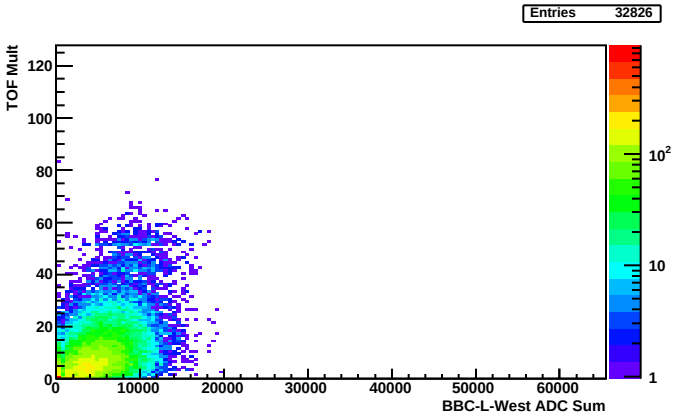

BBQ-VP003 (HI threshold)
Entries 525216
ADC
QT Input Channel

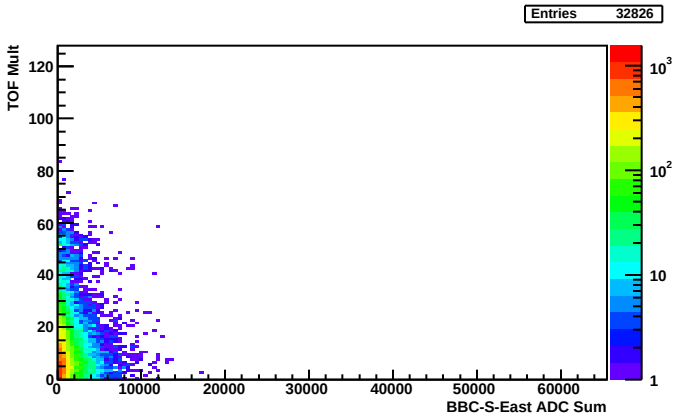

BBQ-VP003 (HI threshold)
Entries 525216
TAC
QT Input Channel

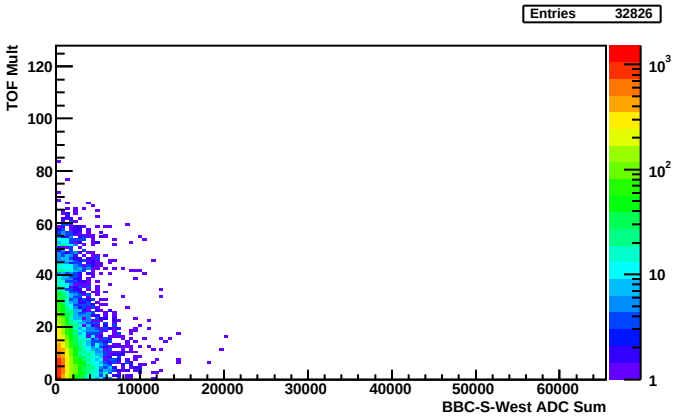

BBQ-VP004 (HI threshold)
Entries 525216
ADC
QT Input Channel

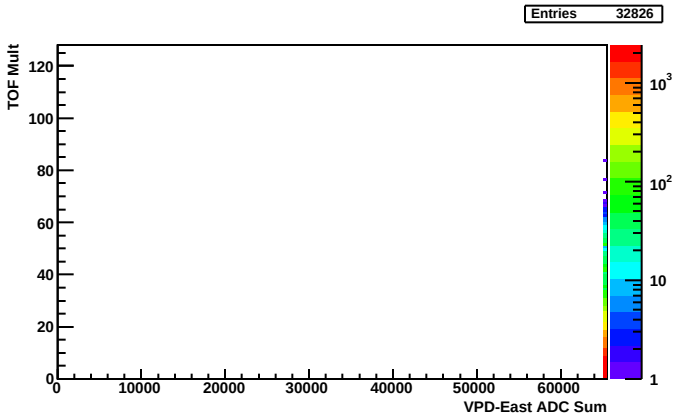

BBQ-VP004 (HI threshold)
Entries 525216
TAC
QT Input Channel

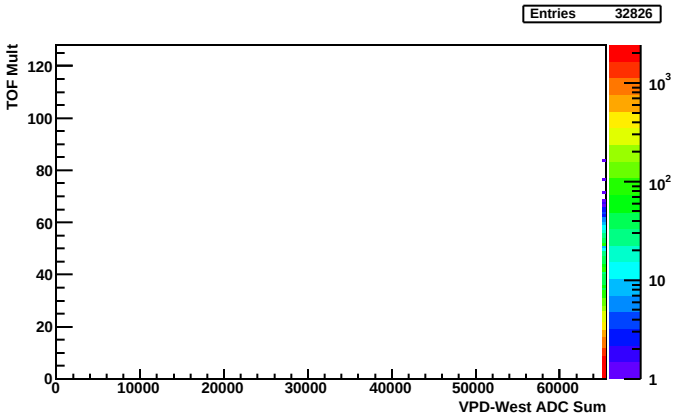

Entries 32826
TOF Mult
BBC-L-East ADC Sum

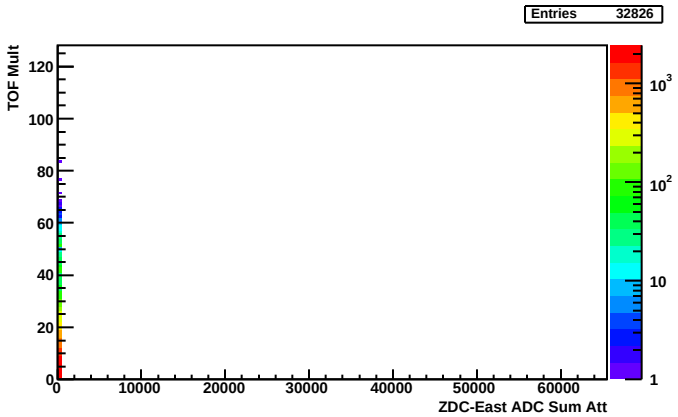

Entries 32826
TOF Mult
BBC-L-West ADC Sum

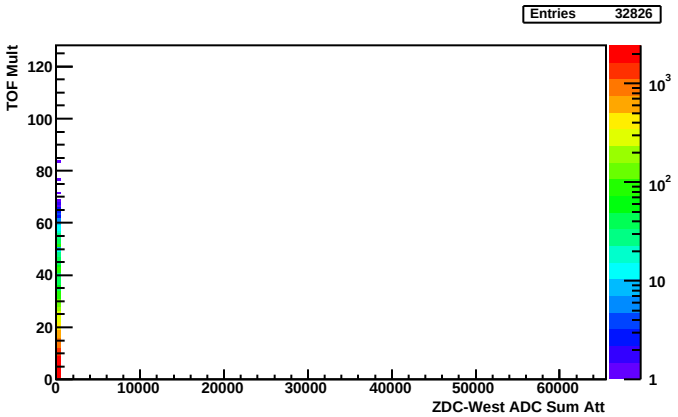

Entries 32826
TOF Mult
BBC-S-East ADC Sum

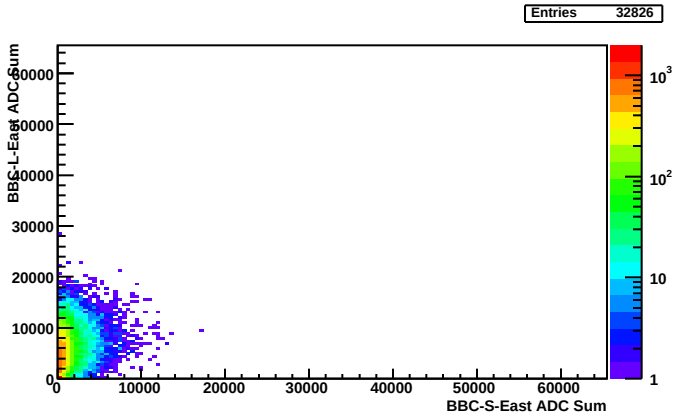

Entries 32826
TOF Mult
BBC-S-West ADC Sum

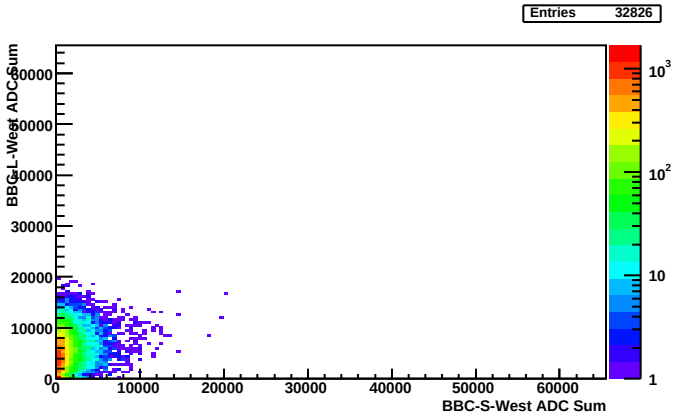

Entries 32826
TOF Mult
VPD-East ADC Sum

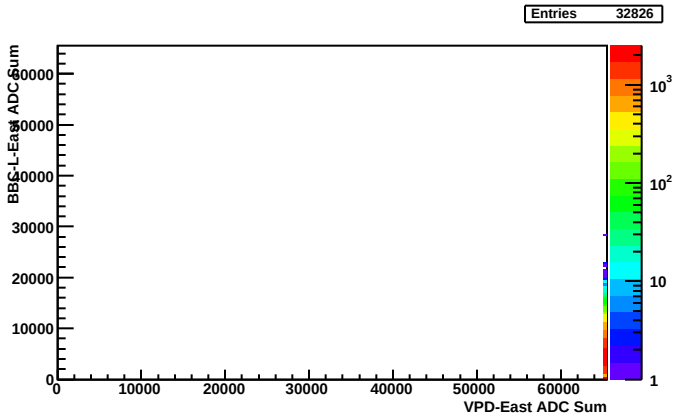

Entries 32826
TOF Mult
VPD-West ADC Sum

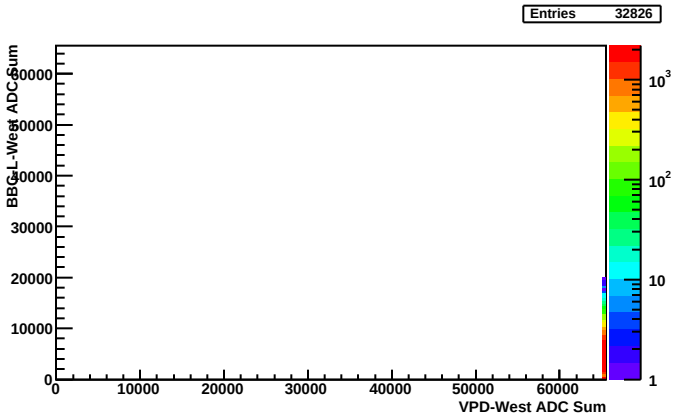

Entries 32826
TOF Mult
ZDC-East ADC Sum Att

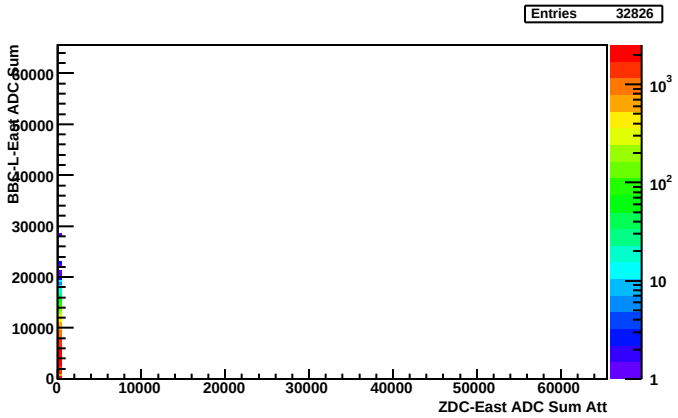

Entries 32826
TOF Mult
ZDC-West ADC Sum Att

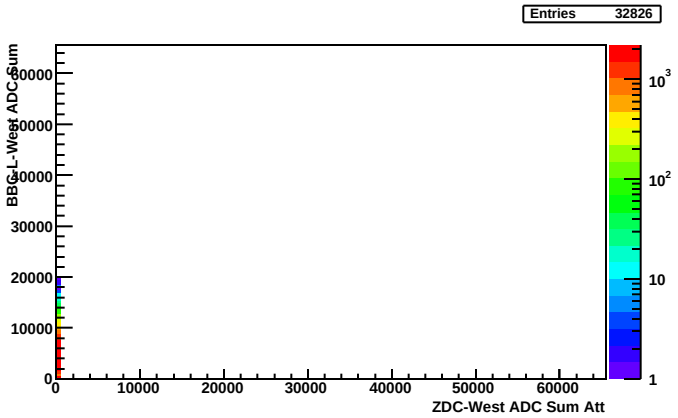

Entries 32826
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 32826
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 32826
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 32826
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 32826
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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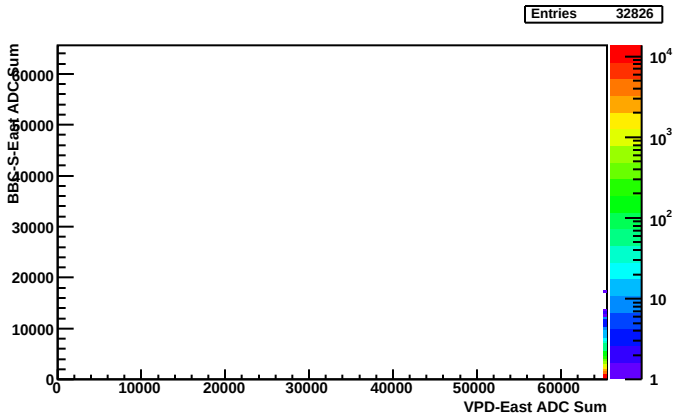
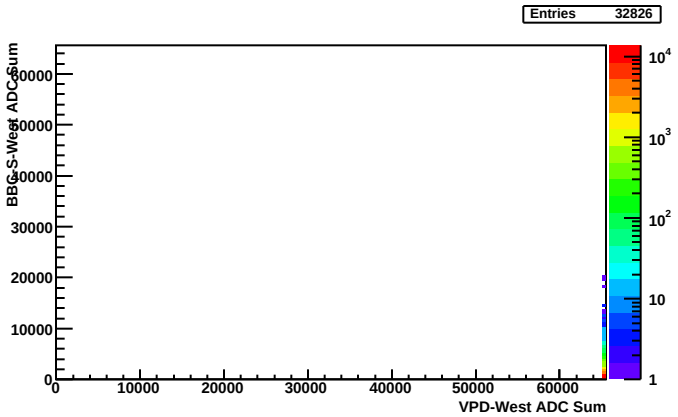
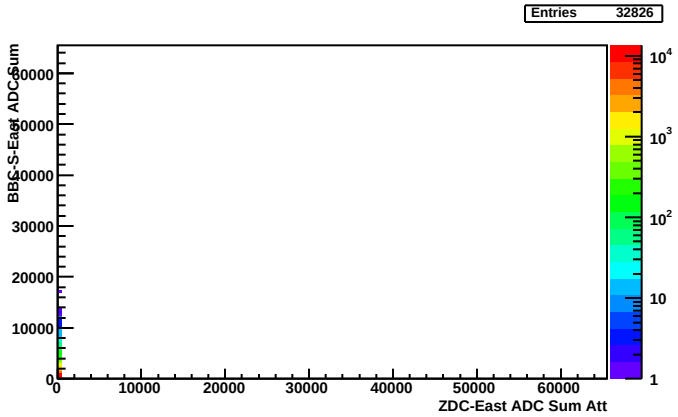
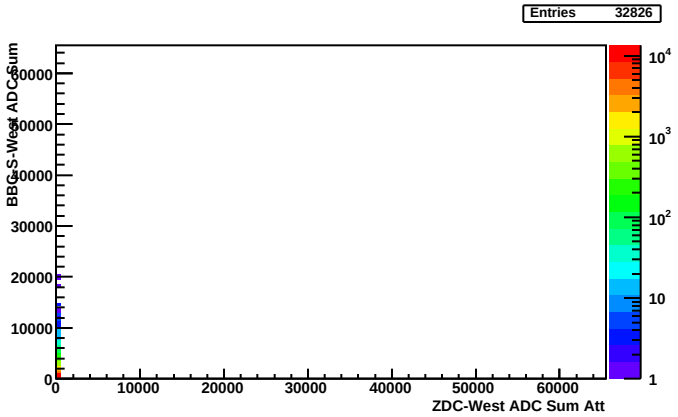
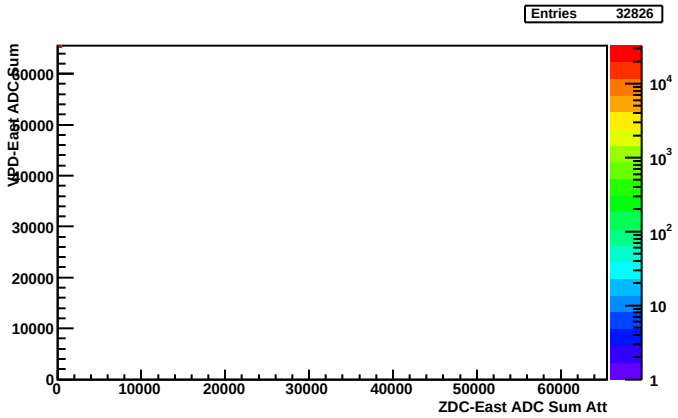
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

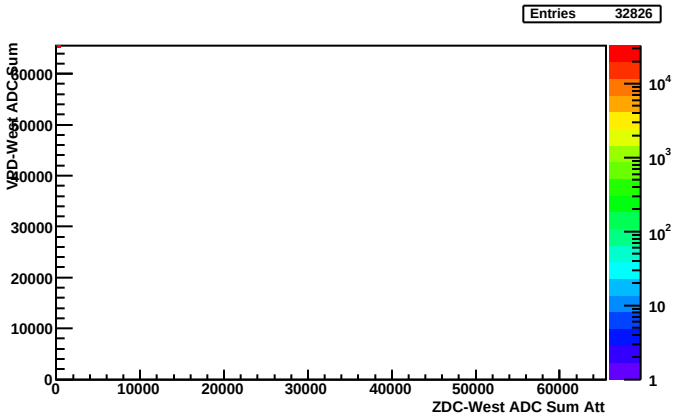

Entries 32826
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 32826
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 32826
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 32826
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 32826
VPD-East ADC Sum
ZDC-East ADC Sum Att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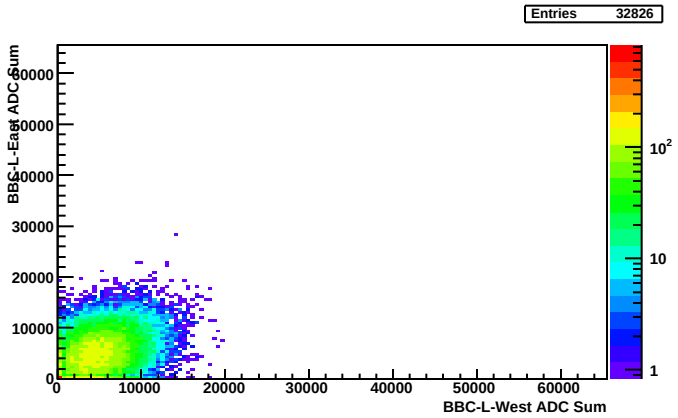
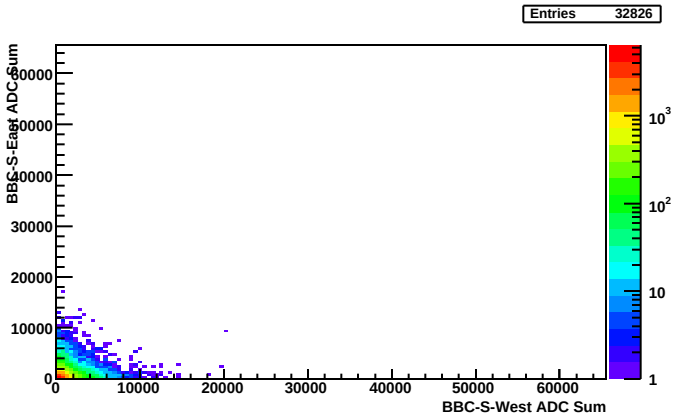
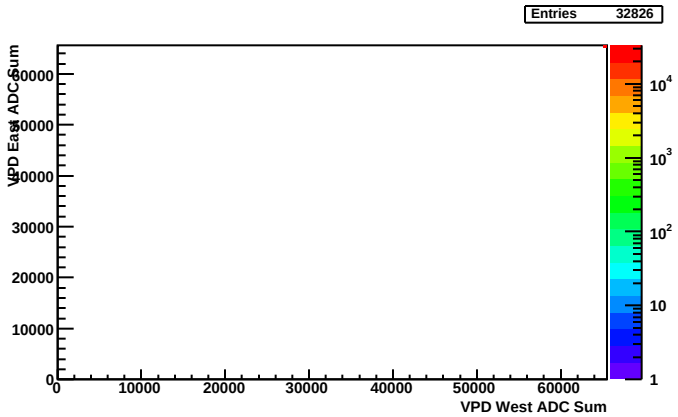
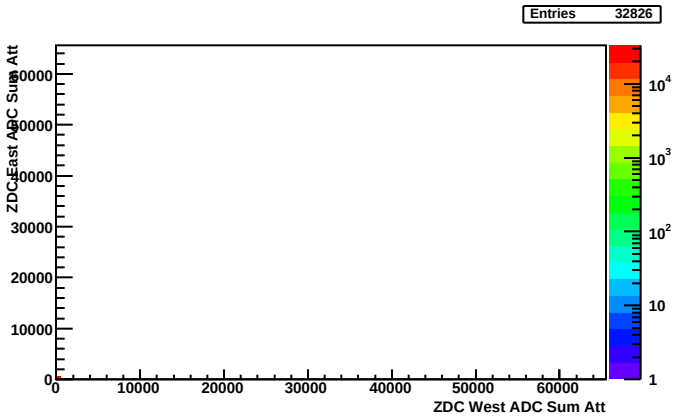
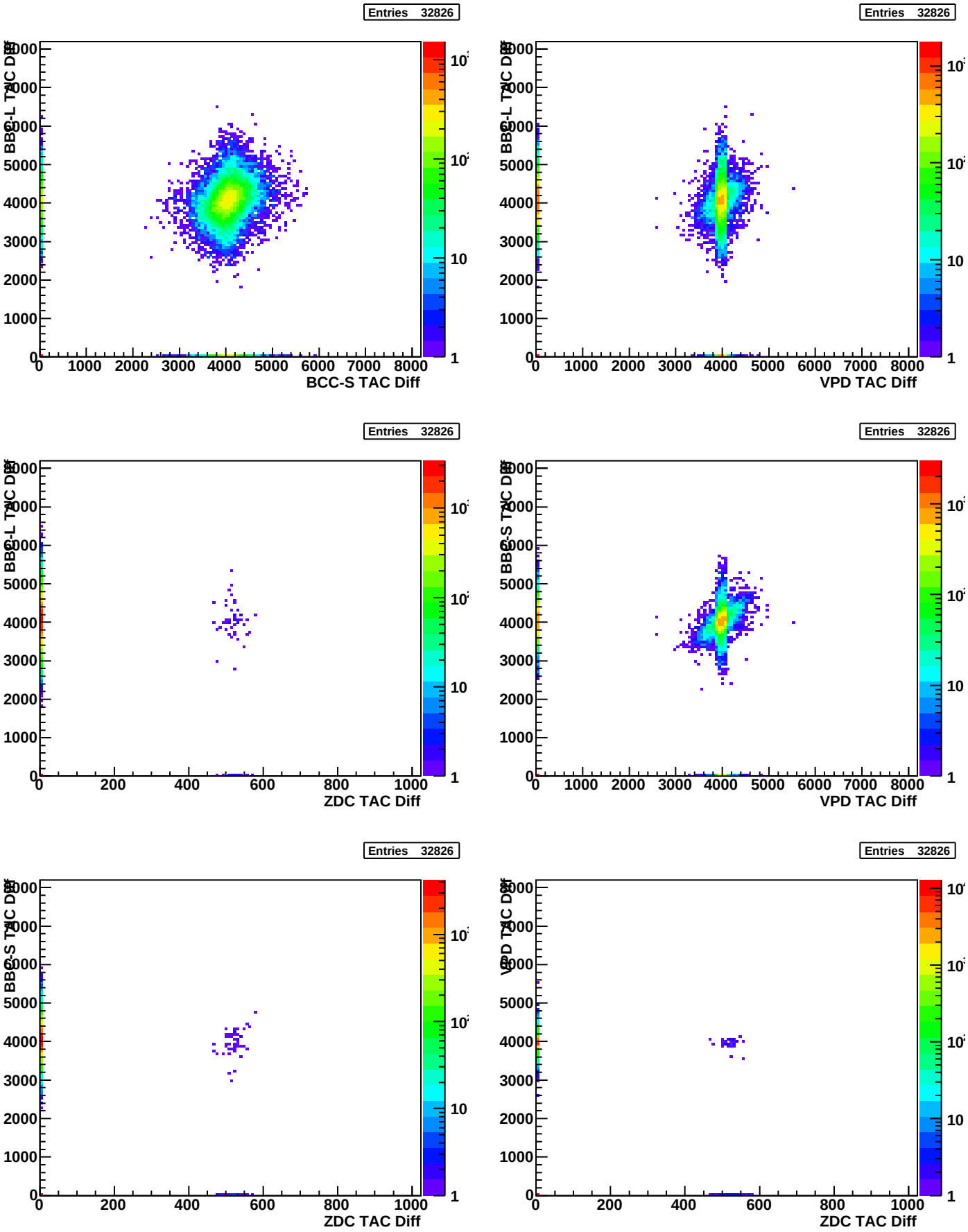
VPD-West ADC Sum
ZDC-West ADC Sum Att

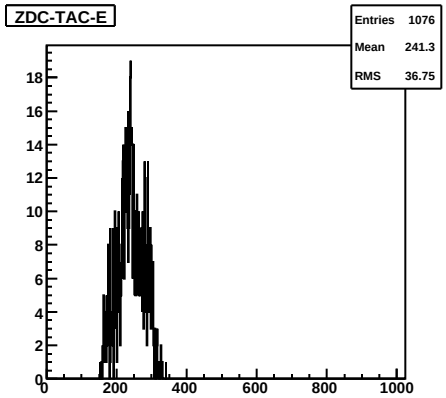

Entries 32826
BBC-L-East ADC Sum
BBC-L-West ADC Sum

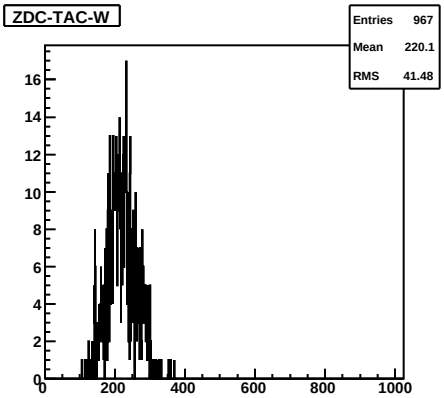

Entries 32826
BBC-S-East ADC Sum
BBC-S-West ADC Sum

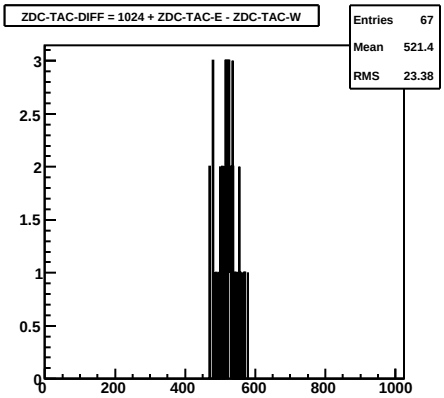

Entries 32826
VPD East ADC Sum
VPD West ADC Sum

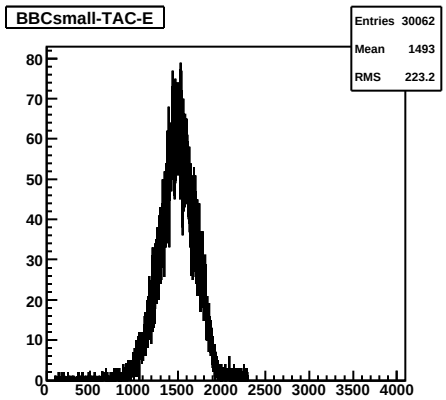

Entries 32826
ZDC East ADC Sum Att
ZDC West ADC Sum Att

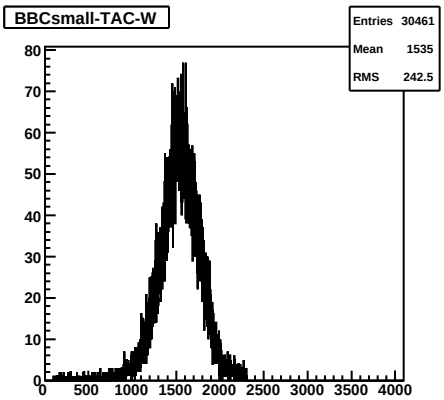

Entries 32826
BBC-L TAC Diff
BCC-S TAC Diff
Entries 32826
BBC-L TAC Diff
VPD TAC Diff
Entries 32826
BBC-L TAC Diff
ZDC TAC Diff
Entries 32826
BBC-S TAC Diff
VPD TAC Diff
Entries 32826
BBC-S TAC Diff
ZDC TAC Diff
Entries 32826
VPD TAC Diff
ZDC TAC Diff

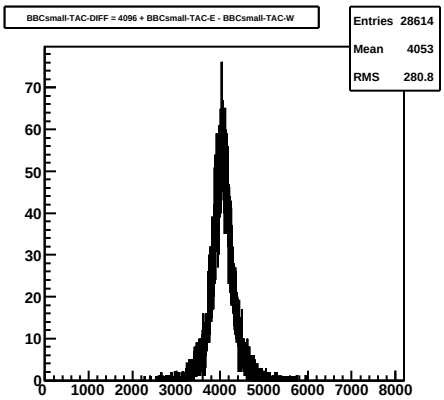

ZDC-TAC-E
Entries 1076
Mean 241.3
RMS 36.75

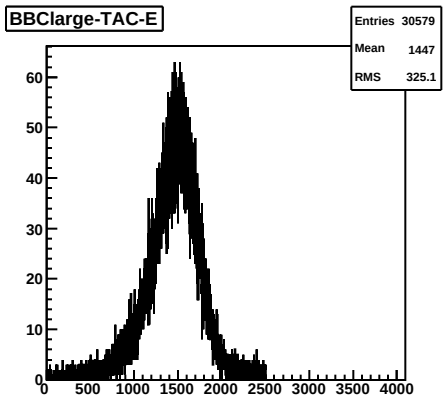

ZDC-TAC-W
Entries 967
Mean 220.1
RMS 41.48

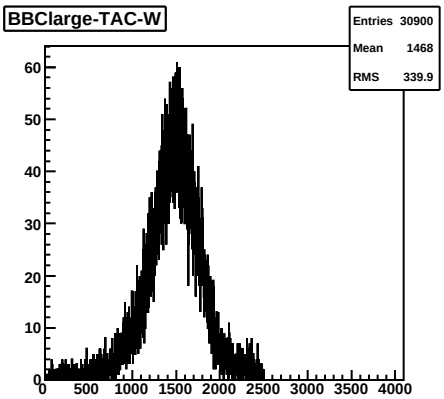

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 67
Mean 521.4
RMS 23.38

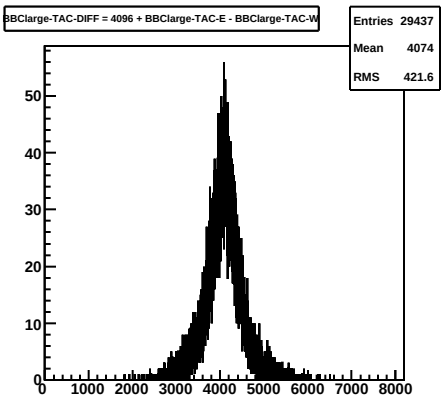

BBCsmall-TAC-E
Entries 30062
Mean 1493
RMS 223.2

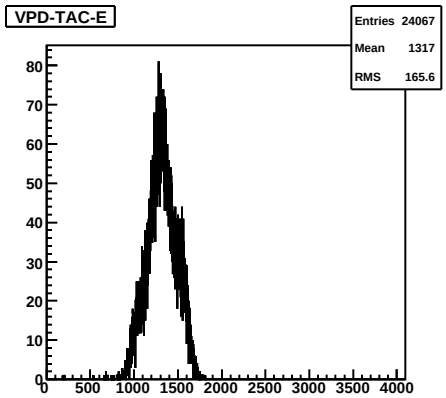

BBCsmall-TAC-W
Entries 30461
Mean 1535
RMS 242.5

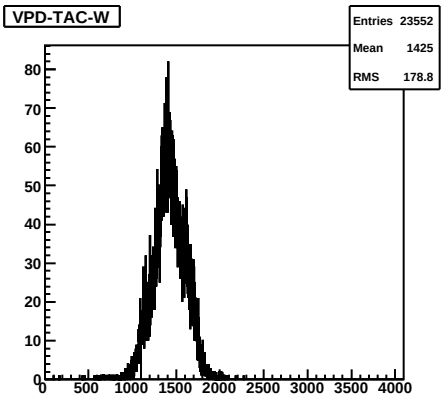

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 28614
Mean 4053
RMS 280.8

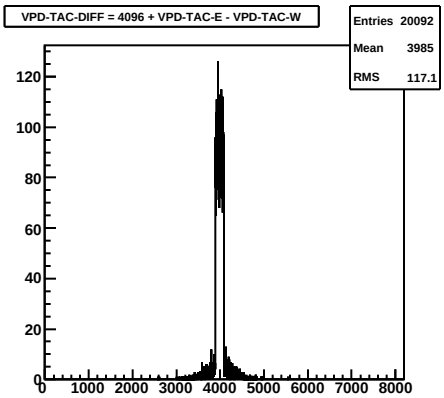

BBClarge-TAC-E
Entries 30579
Mean 1447
RMS 325.1

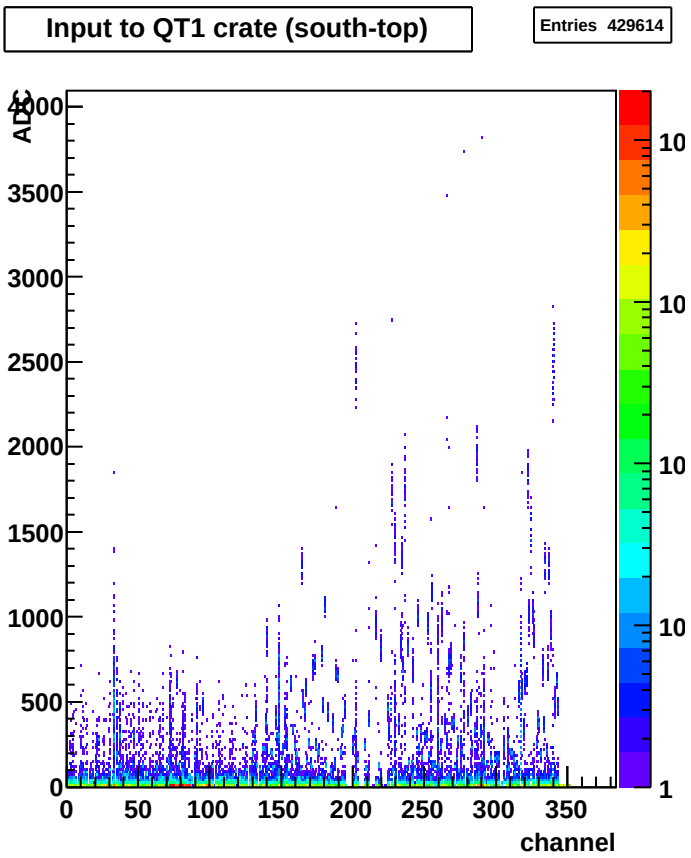

BBClarge-TAC-W
Entries 30900
Mean 1468
RMS 339.9

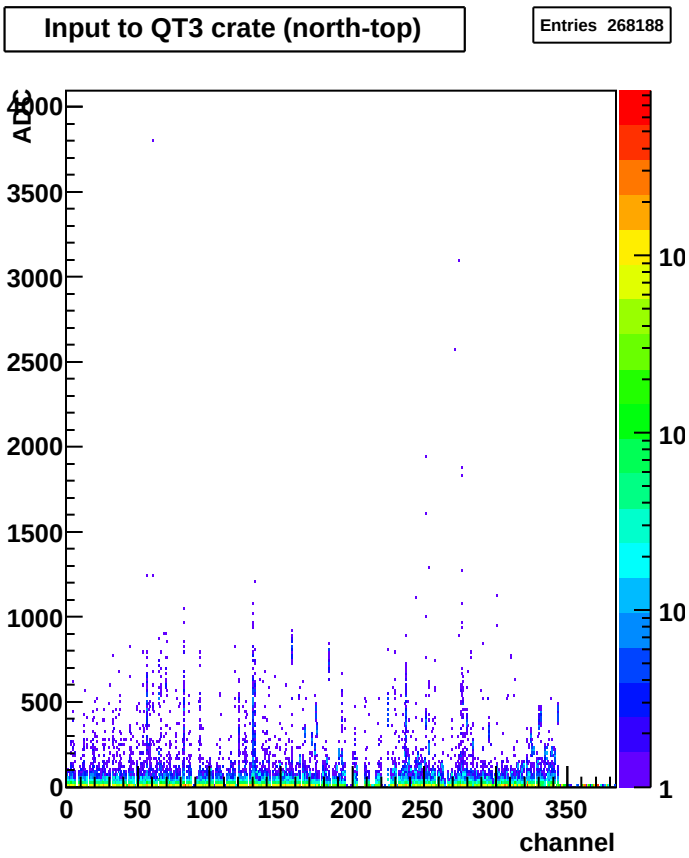

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 29437
Mean 4074
RMS 421.6

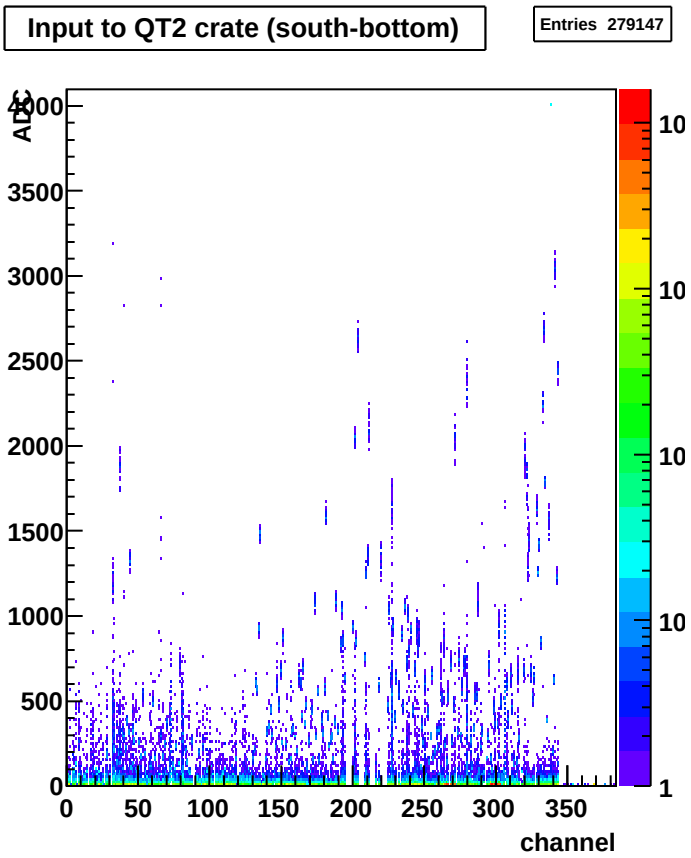

VPD-TAC-E
Entries 24067
Mean 1317
RMS 165.6

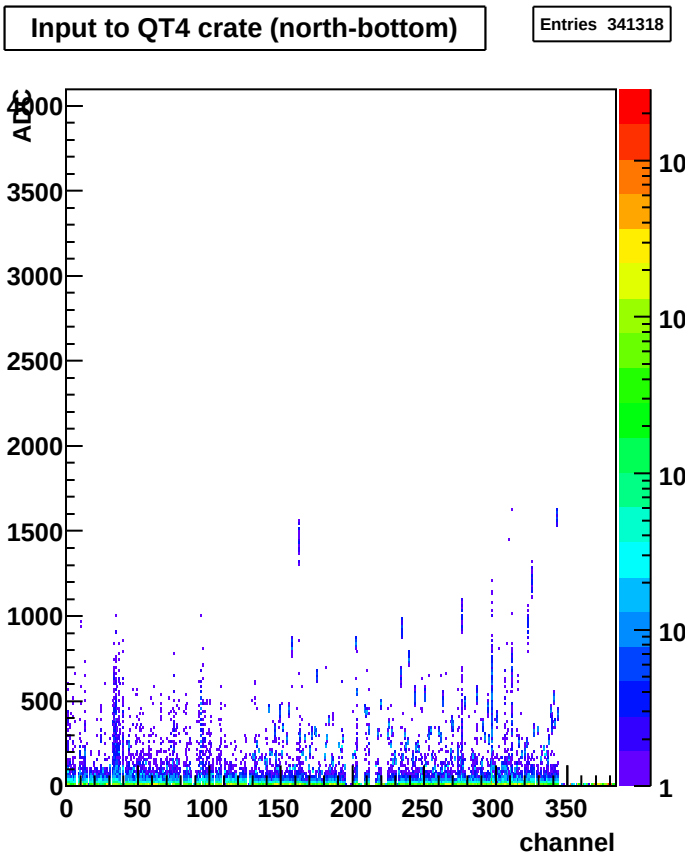

VPD-TAC-W
Entries 23552
Mean 1425
RMS 178.8

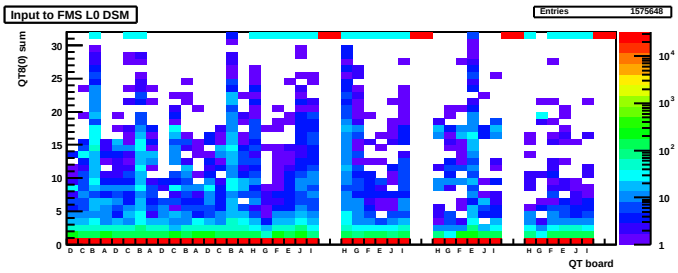

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 20092
Mean 3985
RMS 117.1

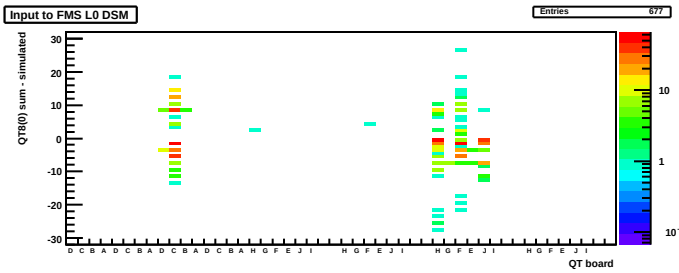

Input to QT1 crate (south-top)
Entries 429614
ADC
channel

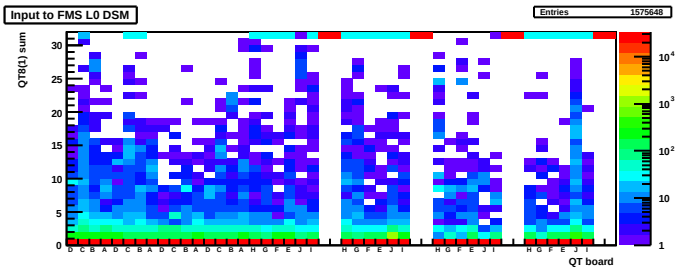

Input to QT3 crate (north-top)
Entries 268188
ADC
channel

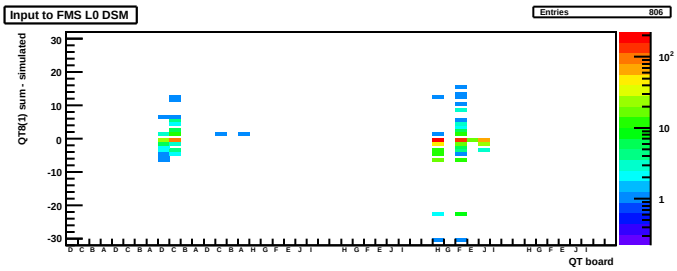

Input to QT2 crate (south-bottom)
Entries 279147
ADC
channel

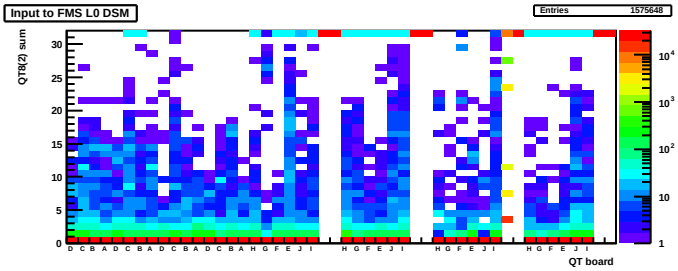

Input to QT4 crate (north-bottom)
Entries 341318
ADC
channel

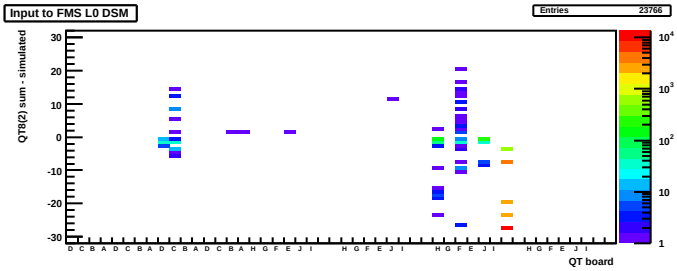

Input to FMS L0 DSM
Entries 1575648
QT8(0) sum
QT board

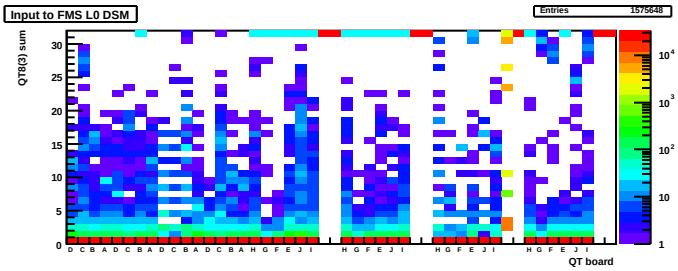

Input to FMS L0 DSM
Entries 677
QT8(0) sum - simulated
QT board

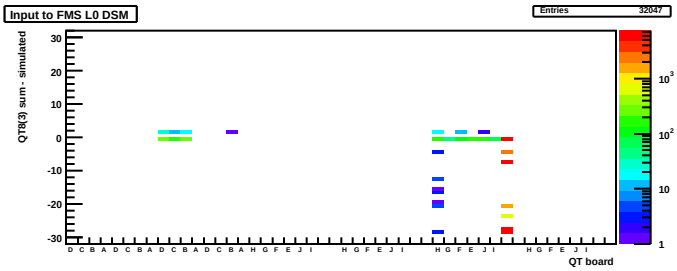

Input to FMS L0 DSM
Entries 1575648
QT8(1) sum
QT board

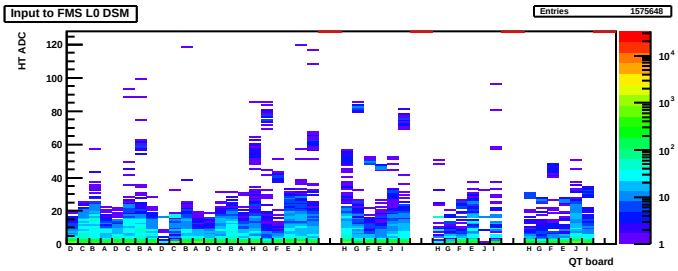

Input to FMS L0 DSM
Entries 806
QT8(1) sum - simulated
QT board

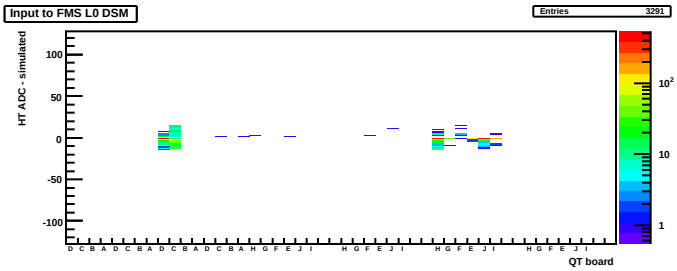

Input to FMS L0 DSM
Entries 1575648
QT8(2) sum
QT board

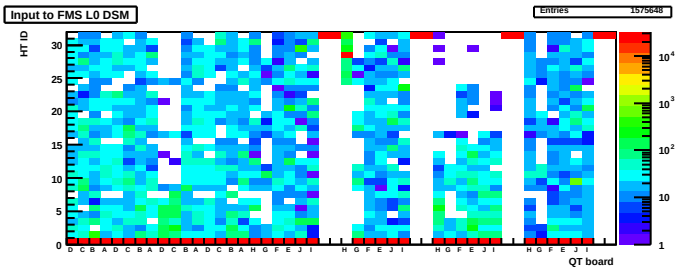

Input to FMS L0 DSM
Entries 23766
QT8(2) sum - simulated
QT board

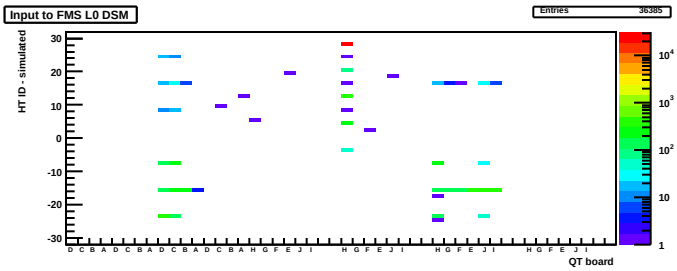

Input to FMS L0 DSM
Entries 1575648
QT8(3) sum
QT board

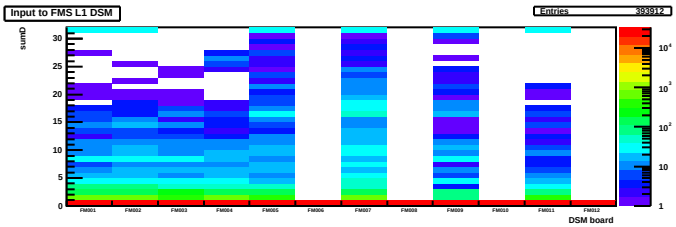

Input to FMS L0 DSM
Entries 32047
QT8(3) sum - simulated
QT board

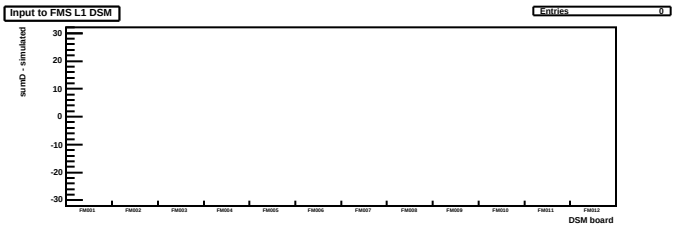

Input to FMS L0 DSM
Entries 1575648
HT ADC
QT board

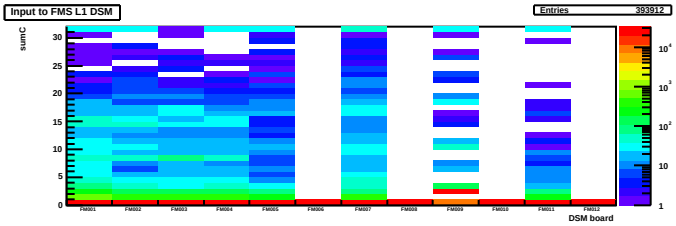

Input to FMS L0 DSM
Entries 3291
HT ADC - simulated
QT board

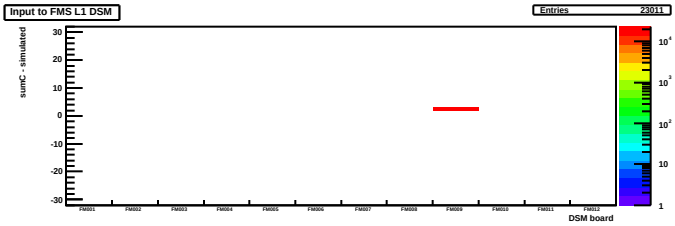

Input to FMS L0 DSM
Entries 1575648
HT ID
QT board

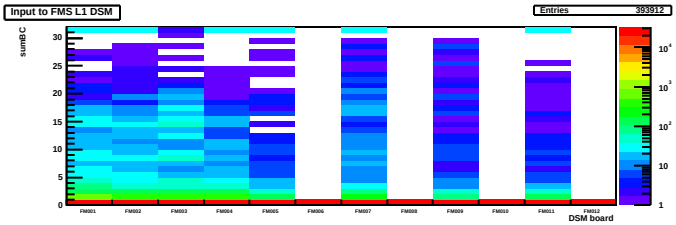

Input to FMS L0 DSM
Entries 36385
HT ID - simulated
QT board

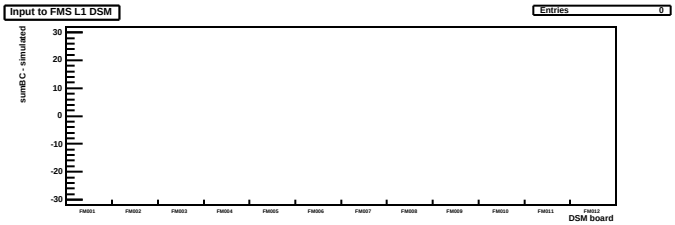

Input to FMS L1 DSM
Entries 393912
sumD
DSM board

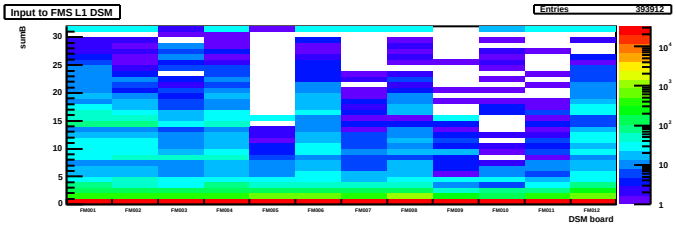

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

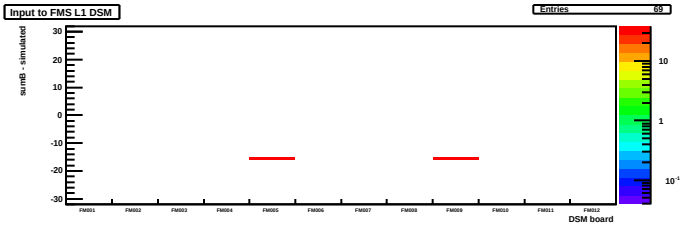

Input to FMS L1 DSM
Entries 393912
sumC
DSM board

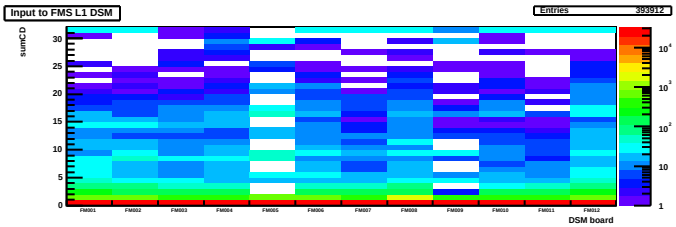

Input to FMS L1 DSM
Entries 23011
sumC - simulated
DSM board

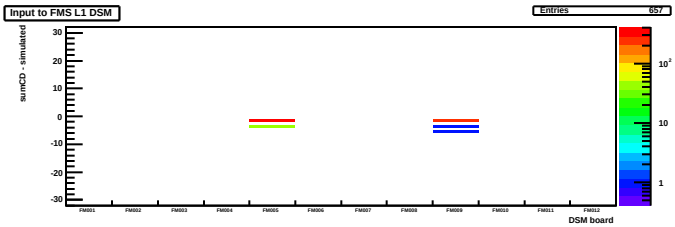

Input to FMS L1 DSM
Entries 393912
sumBC
DSM board

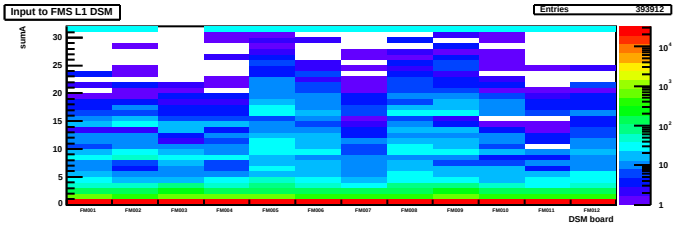

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

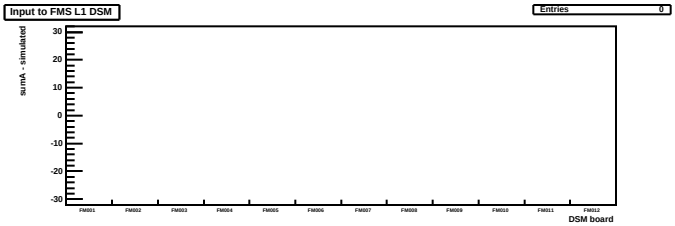

Input to FMS L1 DSM
Entries 393912
sumB
DSM board

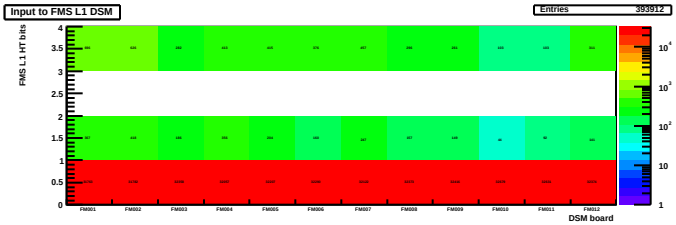

Input to FMS L1 DSM
Entries 69
sumB - simulated
DSM board

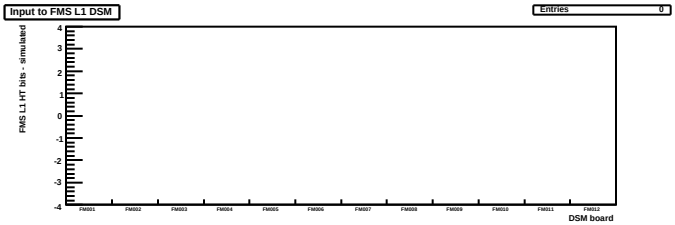

Input to FMS L1 DSM
Entries 393912
sumCD
DSM board

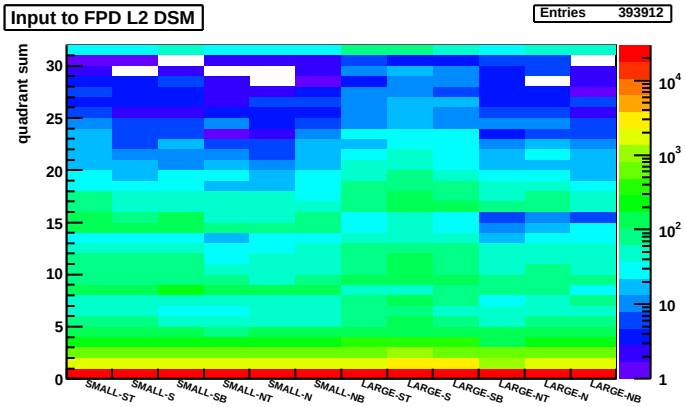

Input to FMS L1 DSM
Entries 657
sumCD - simulated
DSM board

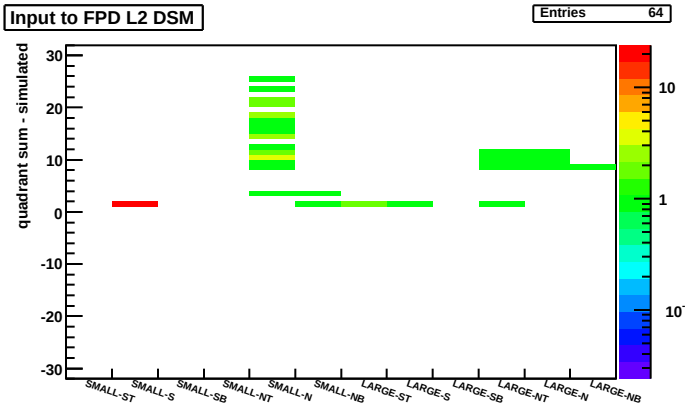

Input to FMS L1 DSM
Entries 393912
sumA
DSM board

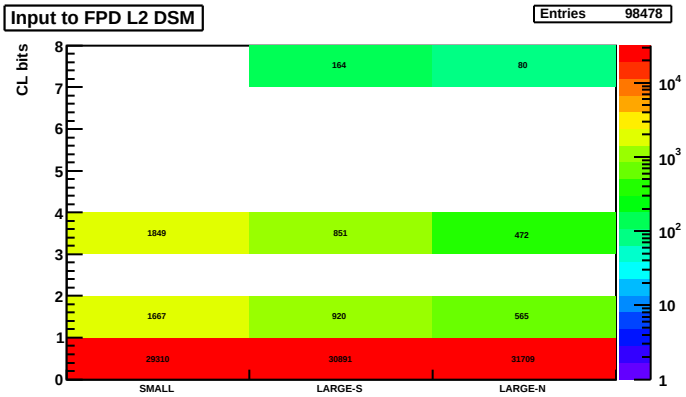

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

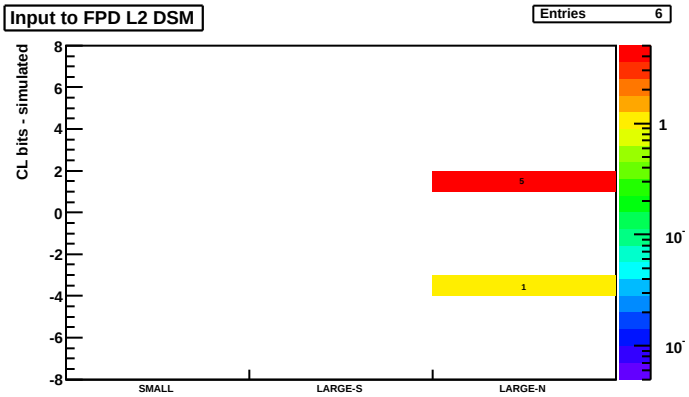

Input to FMS L1 DSM
Entries 393912
FMS L1 HT bits
DSM board

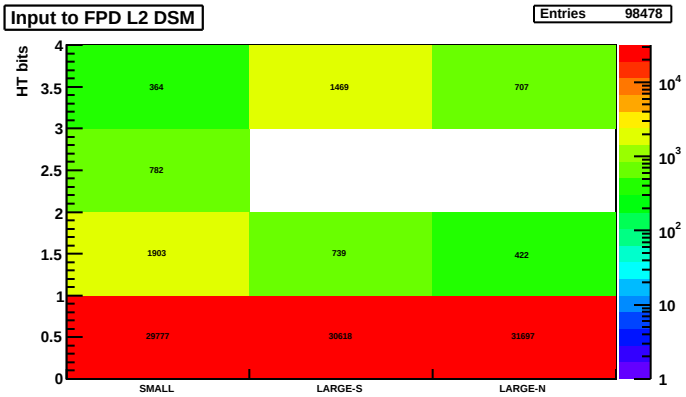

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

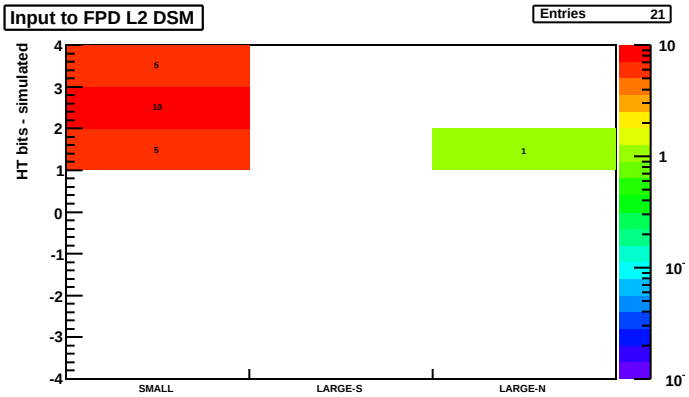

Input to FPD L2 DSM
Entries 393912
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

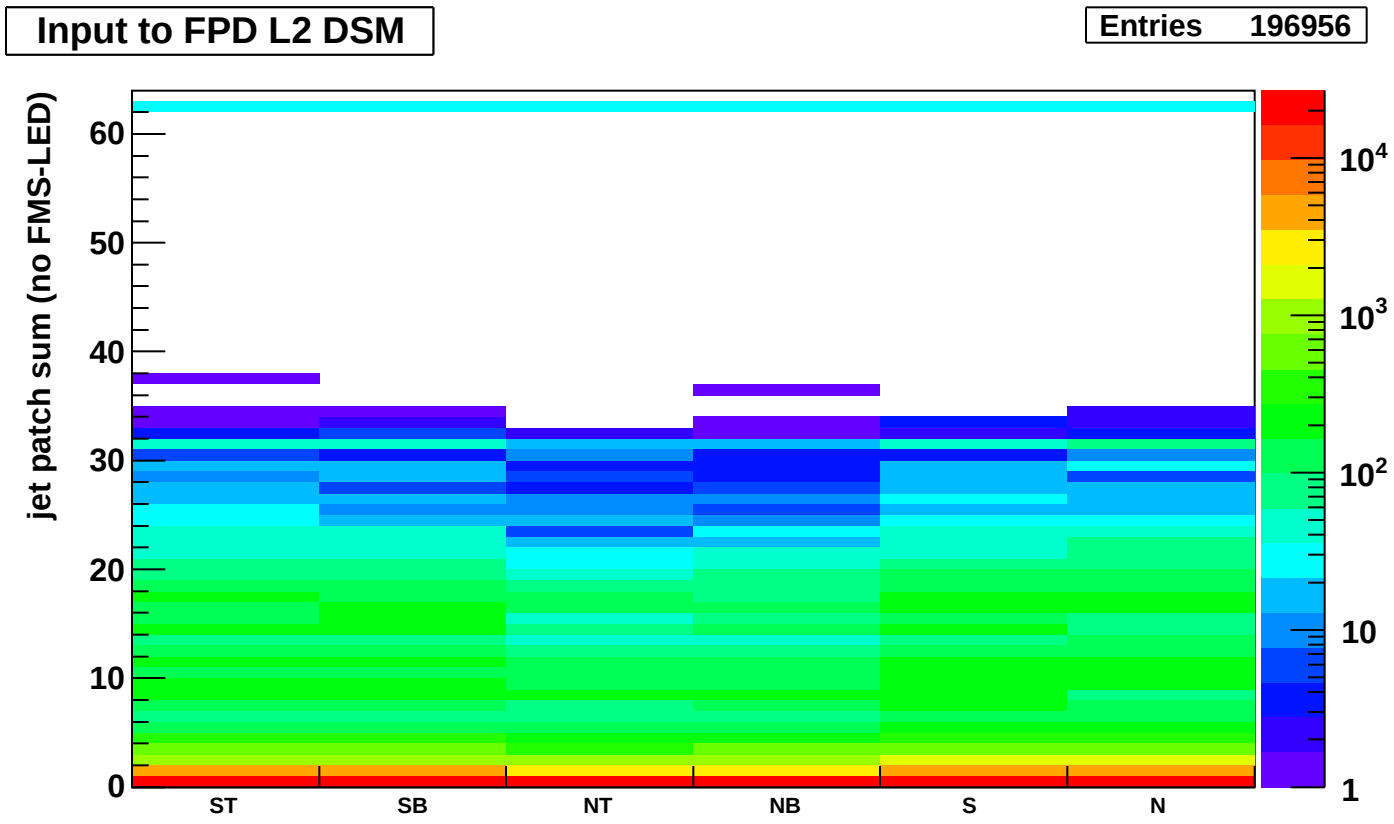

Input to FPD L2 DSM
Entries 64
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

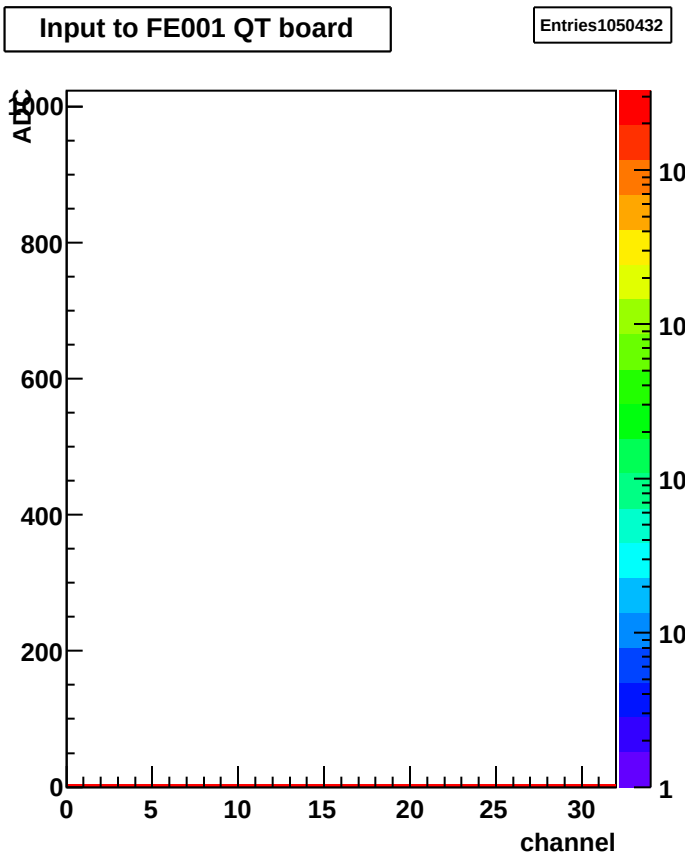

Input to FPD L2 DSM
Entries 98478
CL bits
164
80
1849
851
472
1667
920
565
29310
30891
31709
SMALL
LARGE-S
LARGE-N

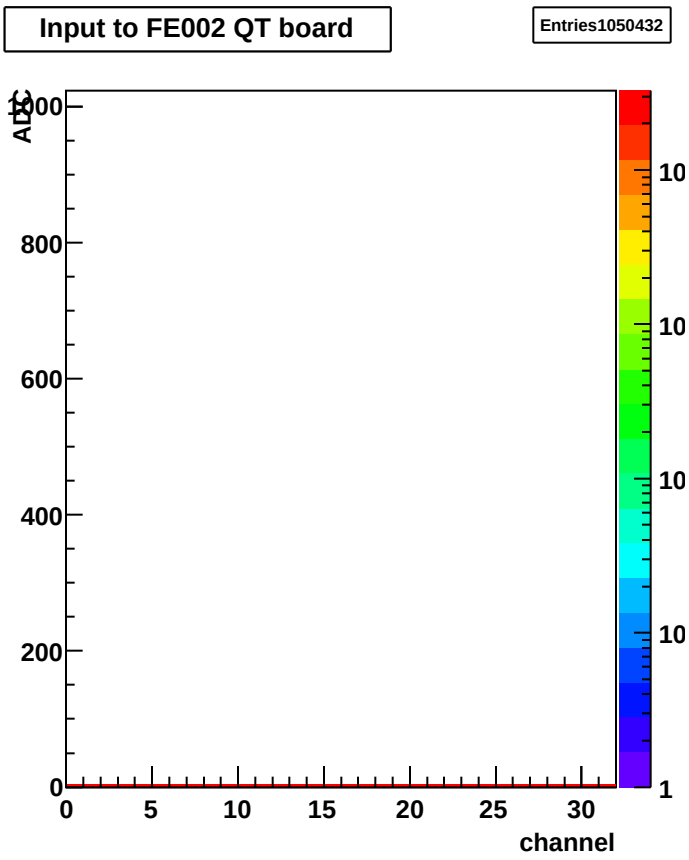

Input to FPD L2 DSM
Entries 6
CL bits - simulated
5
1
SMALL
LARGE-S
LARGE-N

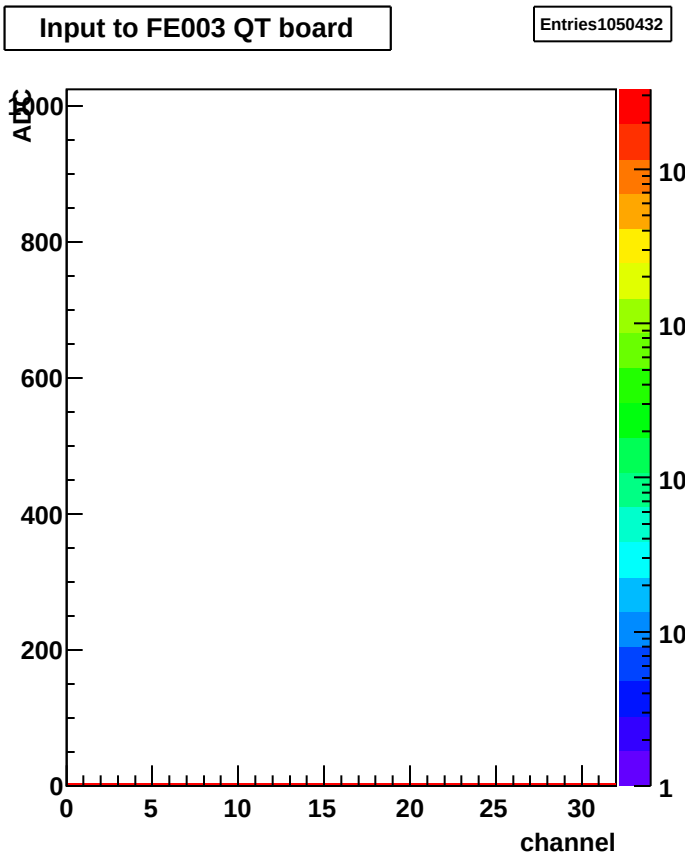

Input to FPD L2 DSM
Entries 98478
HT bits
364
1469
707
782
1903
739
422
29777
30618
31697
SMALL
LARGE-S
LARGE-N

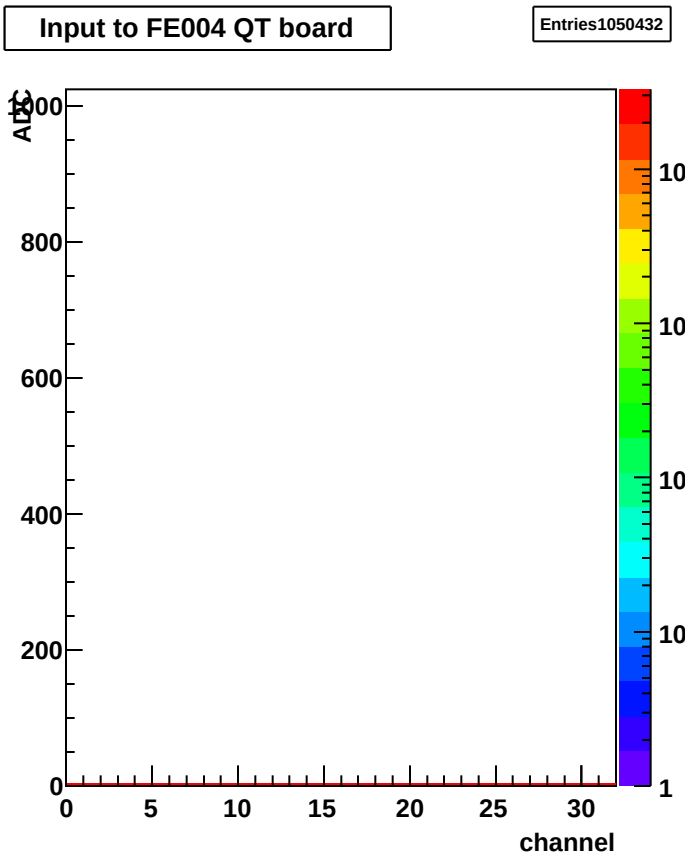

Input to FPD L2 DSM
Entries 21
HT bits - simulated
5
10
5
1
SMALL
LARGE-S
LARGE-N

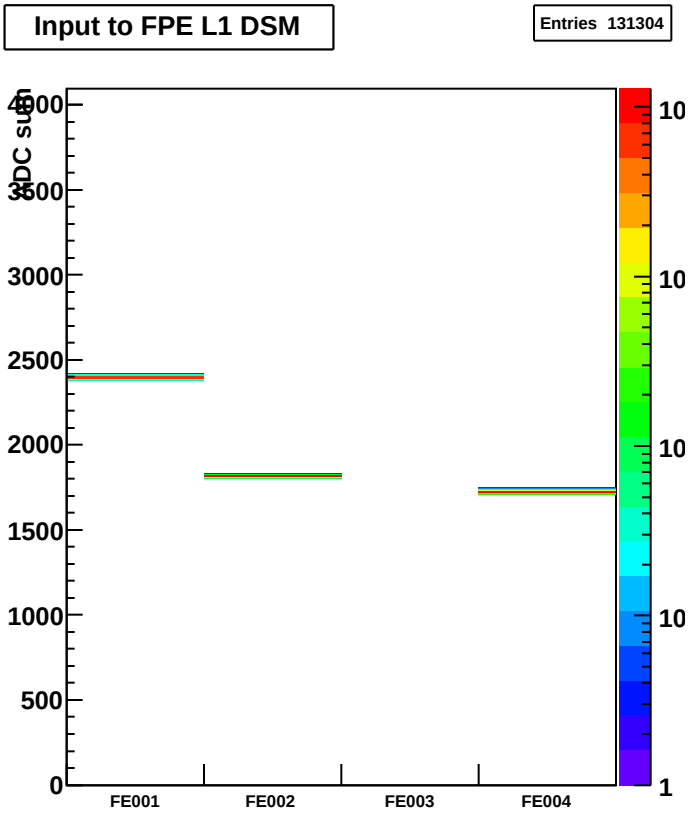

Input to FPD L2 DSM
Entries 196956
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

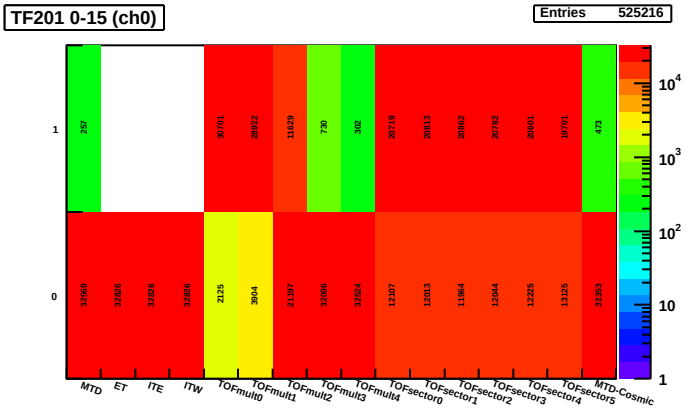

Input to FE001 QT board
Entries1050432
ADC
channel

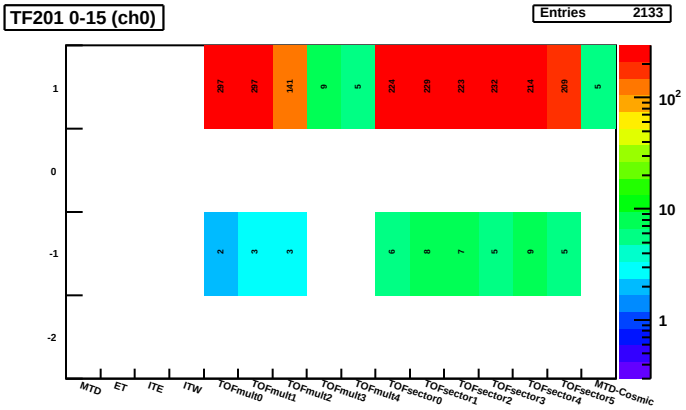

Input to FE002 QT board
Entries1050432
ADC
channel

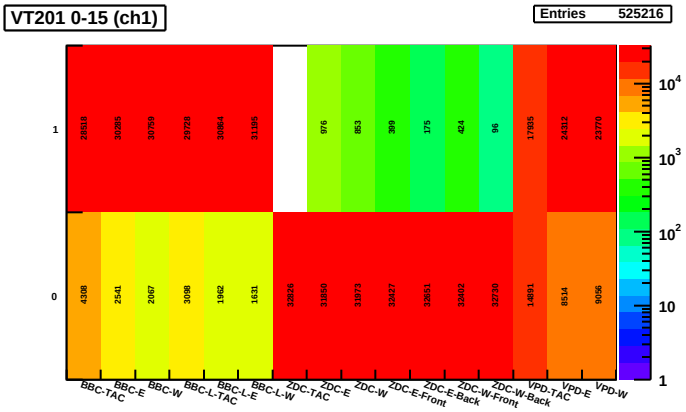

Input to FE003 QT board
Entries1050432
ADC
channel

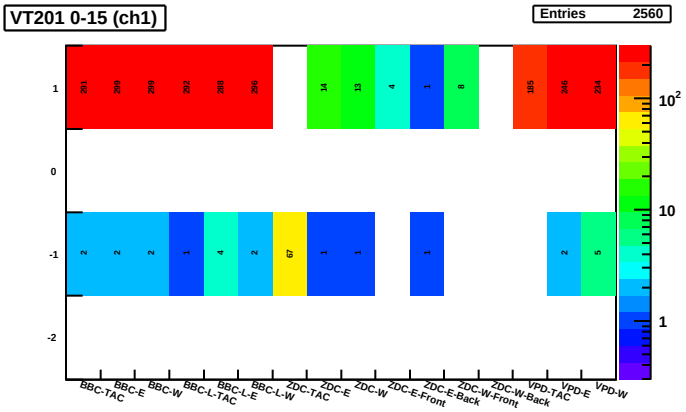

Input to FE004 QT board
Entries1050432
ADC
channel

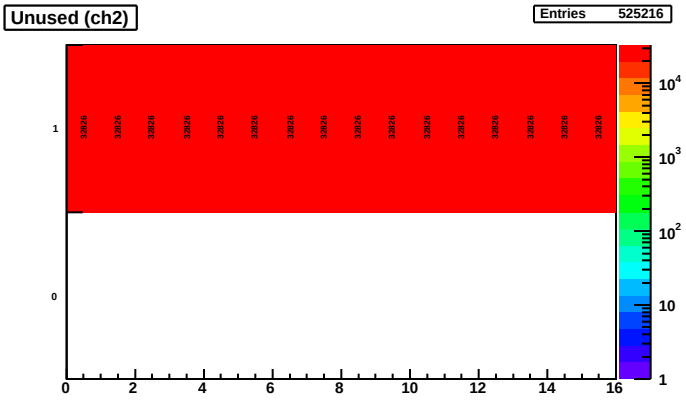

Input to FPE L1 DSM
Entries 131304
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

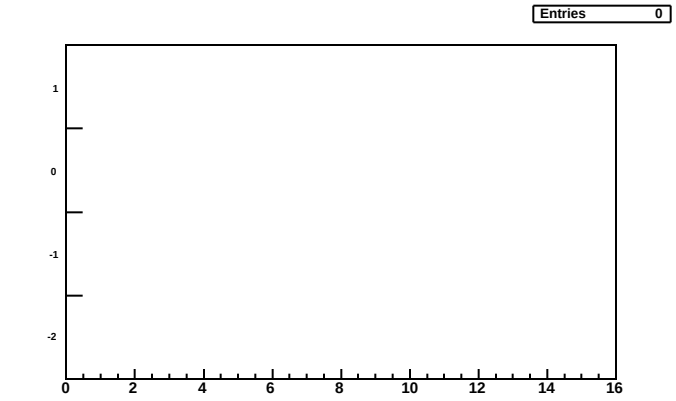

TF201 0-15 (ch0)
Entries 525216
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 2133
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 525216
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 2560
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 525216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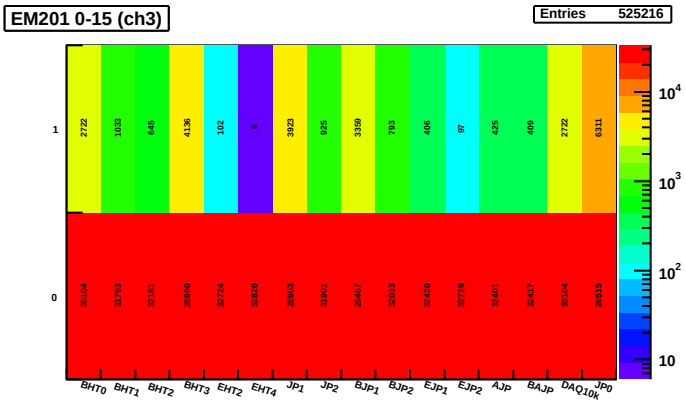
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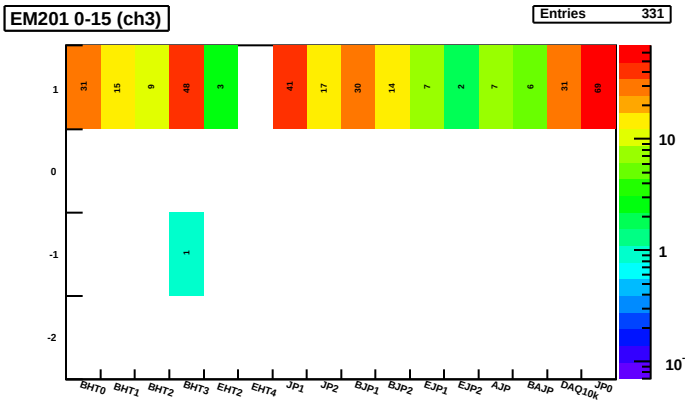
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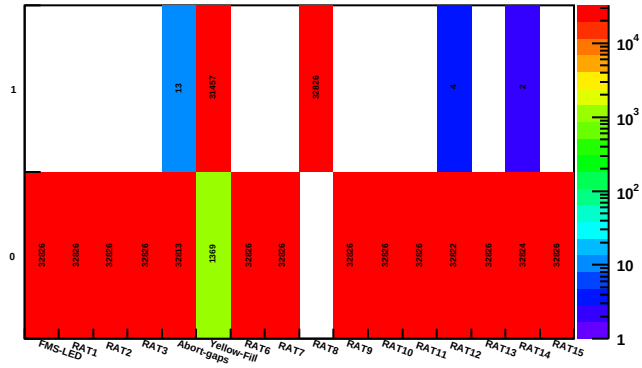
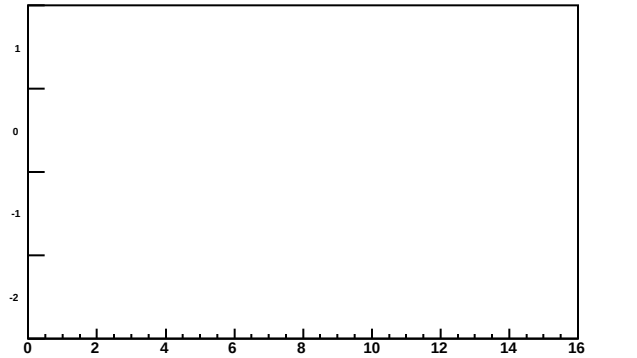
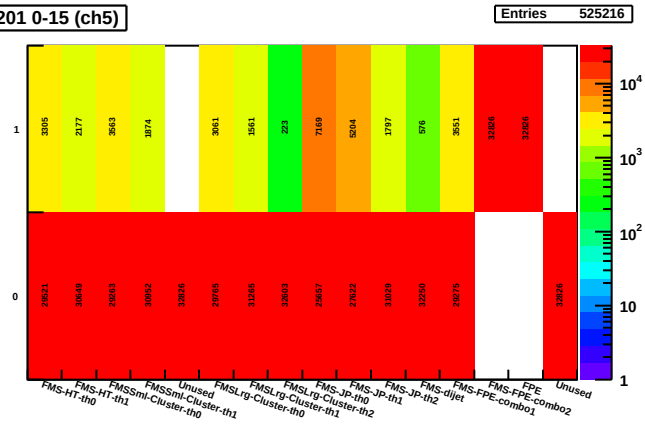
RAT board (ch4)





FP201 0-15 (ch5)



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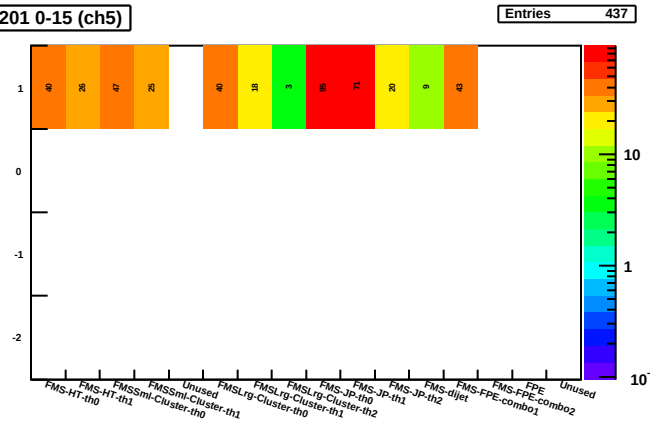
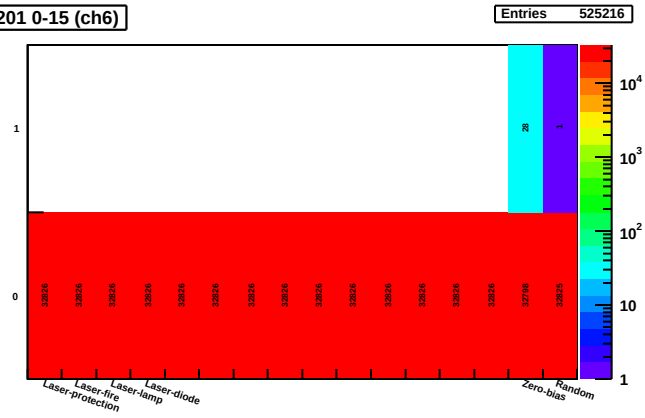
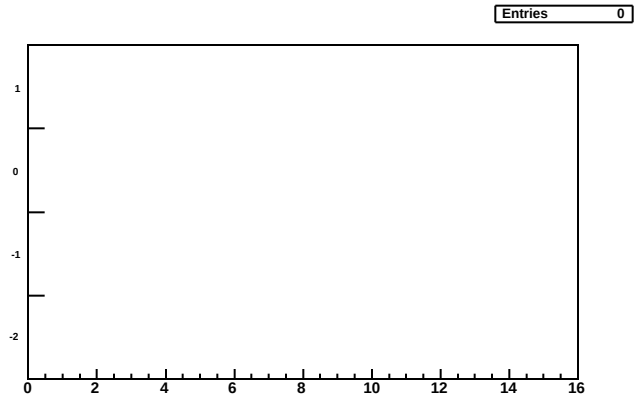
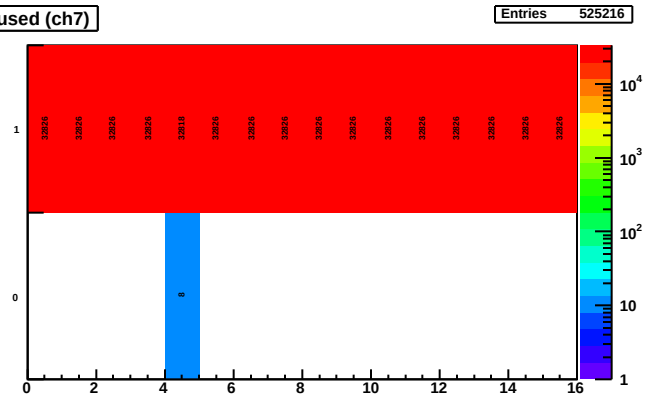
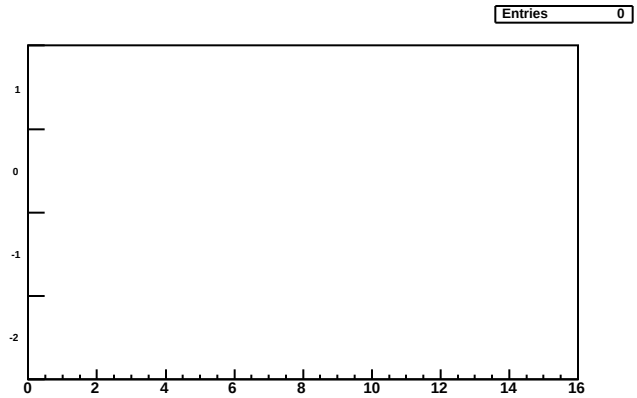


ST201 0-15 (ch6)





Unused (ch7)