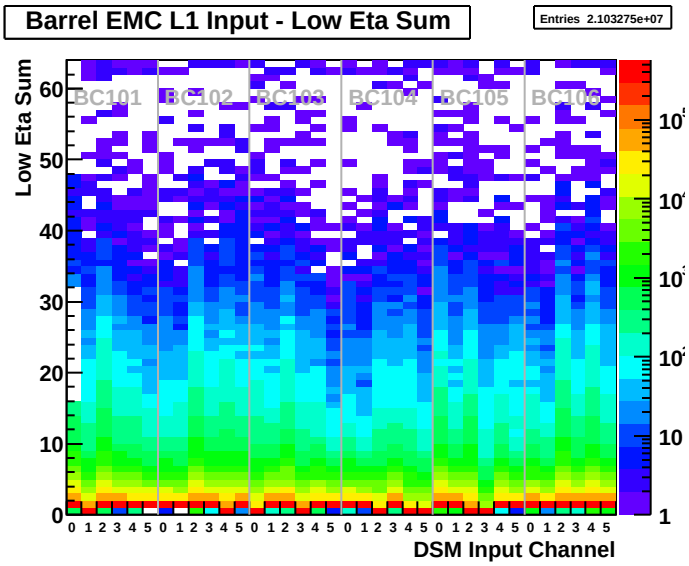
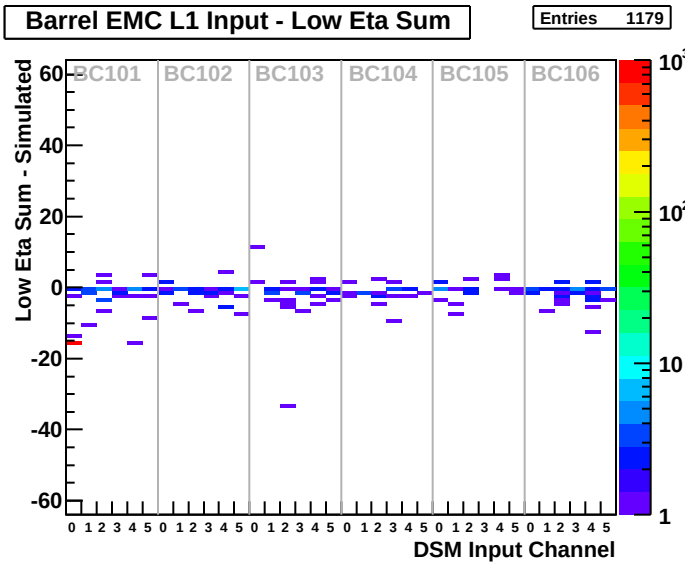
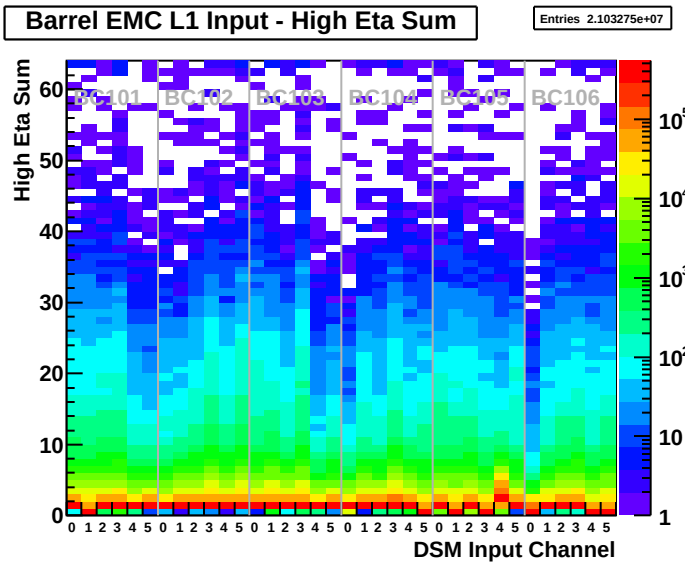
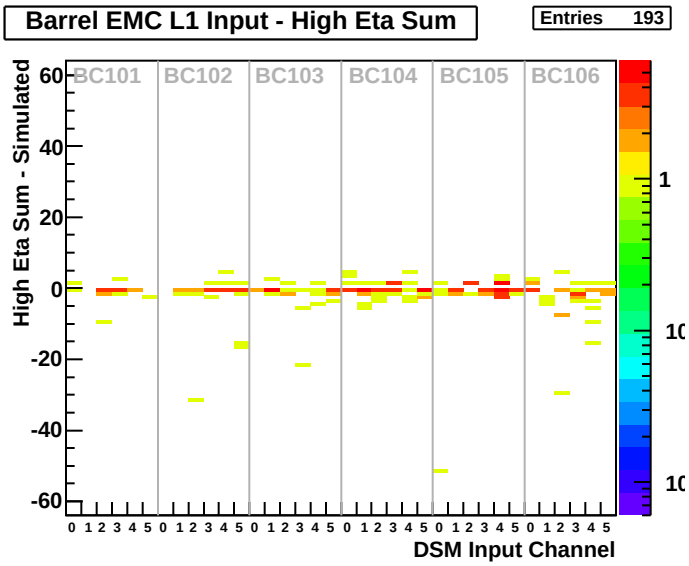
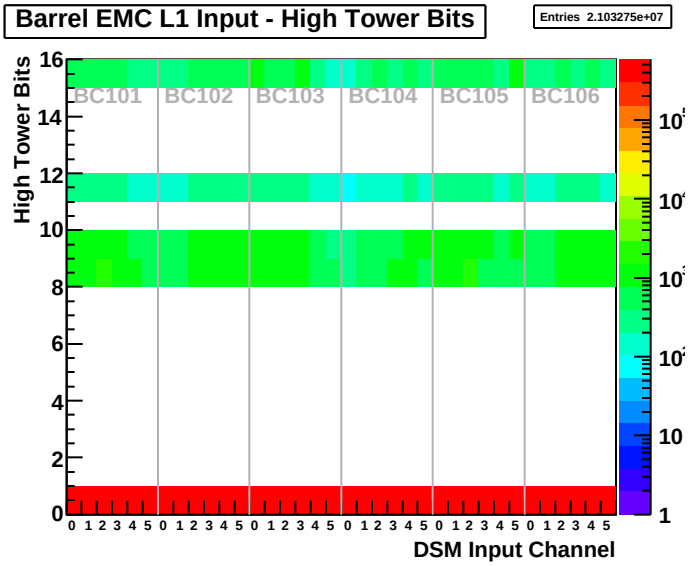
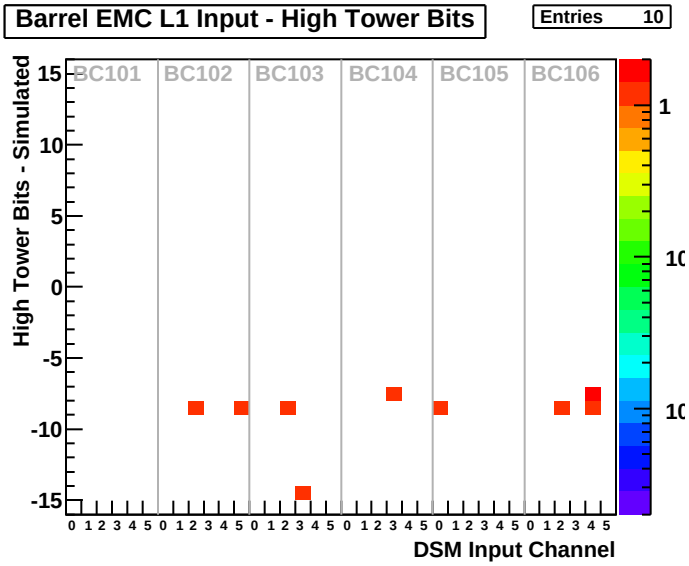

Barrel EMC L1 Input - Low Eta Sum
Entries 2.103275e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

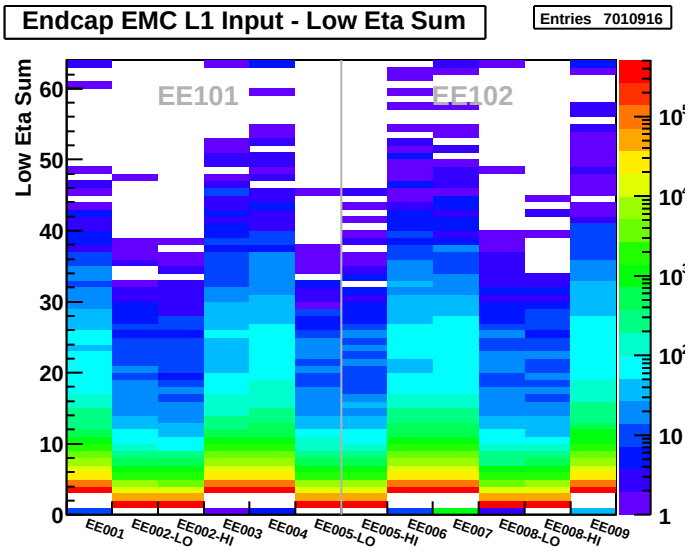

Barrel EMC L1 Input - Low Eta Sum
Entries 1179
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

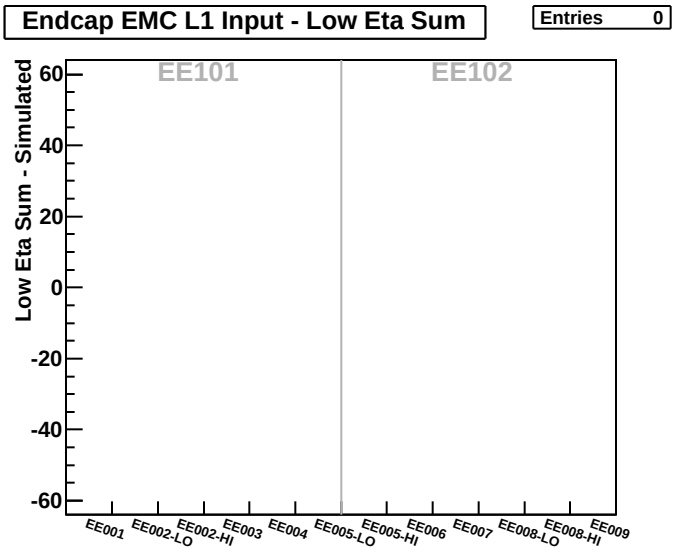

Barrel EMC L1 Input - High Eta Sum
Entries 2.103275e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

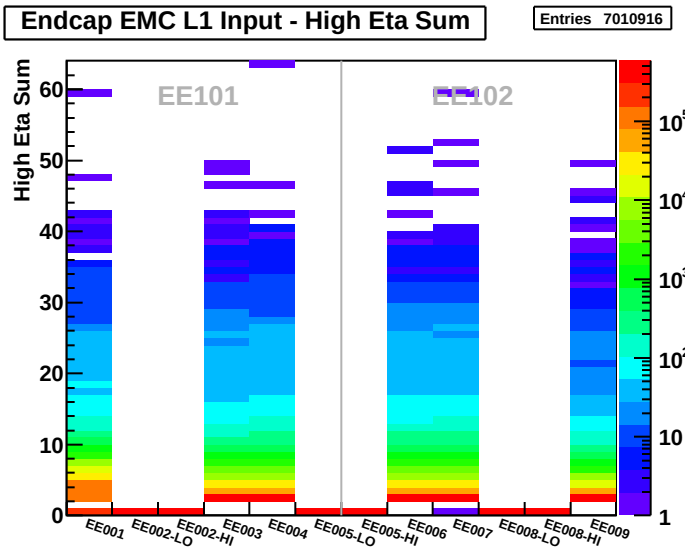

Barrel EMC L1 Input - High Eta Sum
Entries 193
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

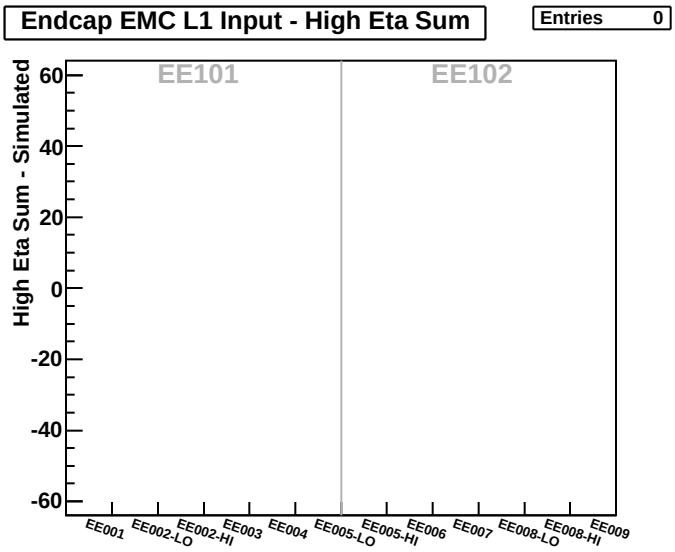

Barrel EMC L1 Input - High Tower Bits
Entries 2.103275e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

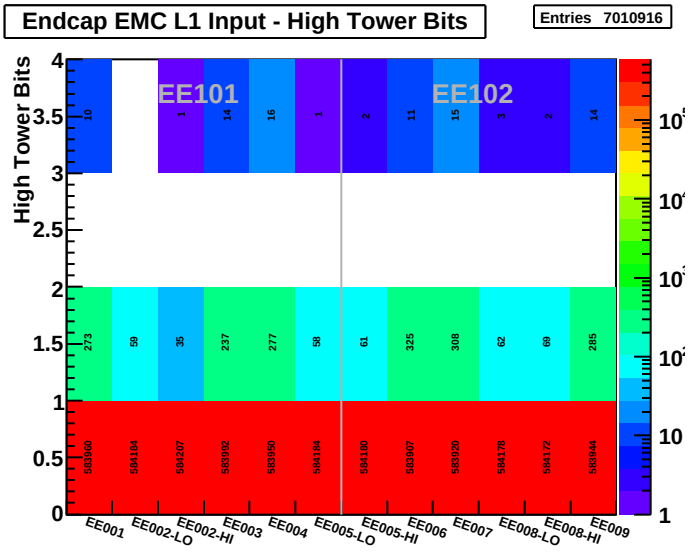

Barrel EMC L1 Input - High Tower Bits
Entries 10
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

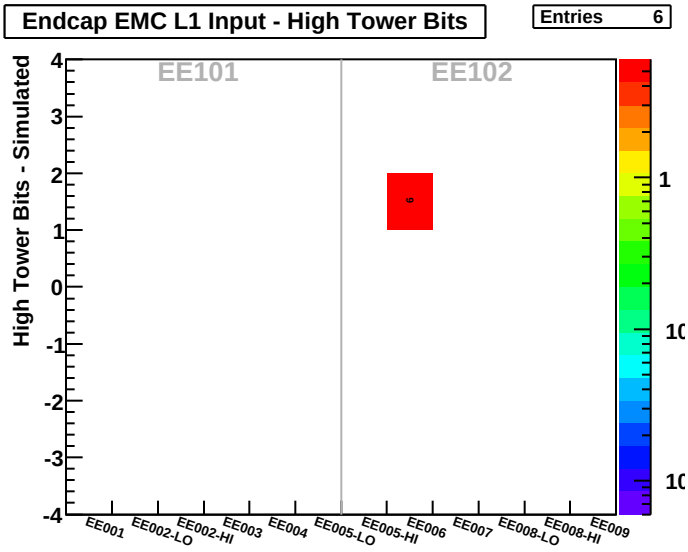

Endcap EMC L1 Input - Low Eta Sum
Entries 7010916
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

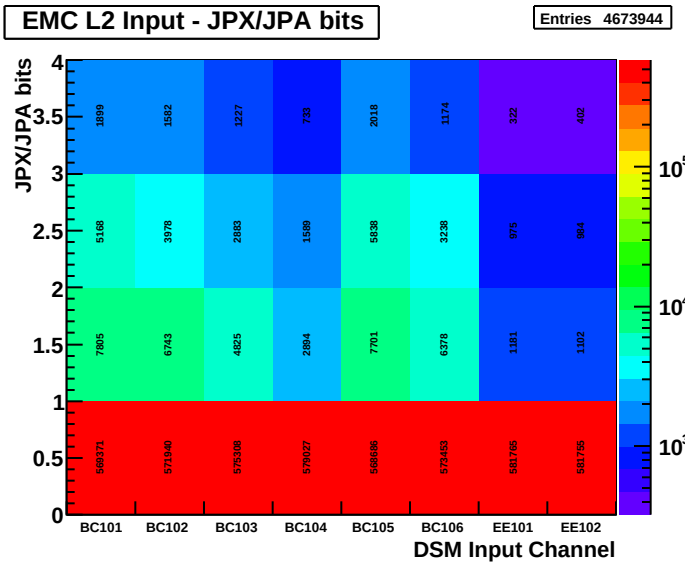

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

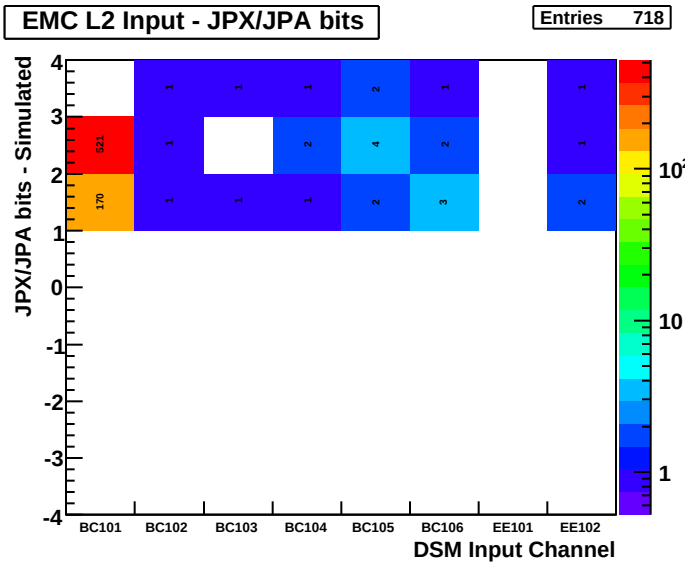

Endcap EMC L1 Input - High Eta Sum
Entries 7010916
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

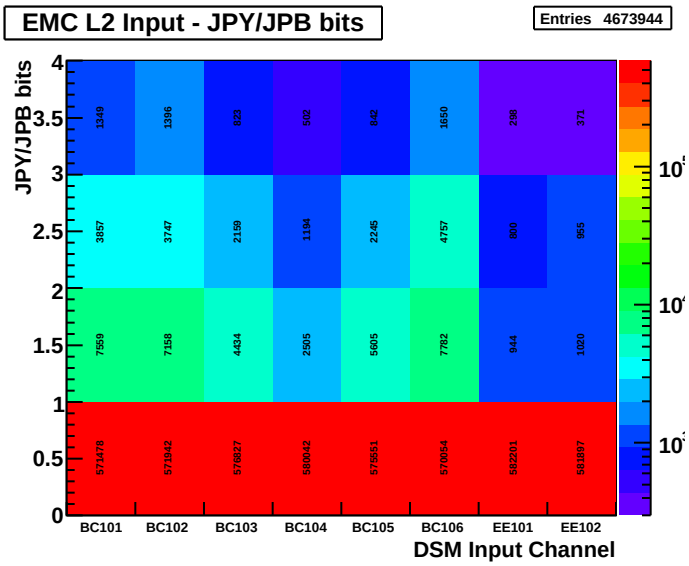

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

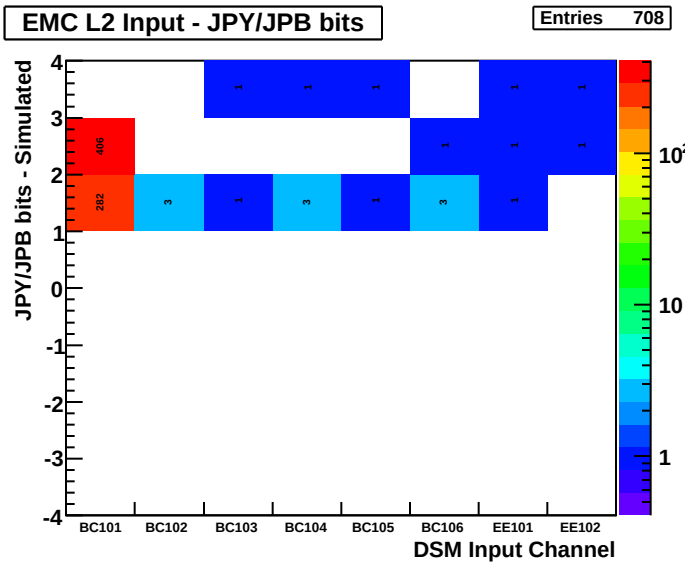

Endcap EMC L1 Input - High Tower Bits
Entries 7010916
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

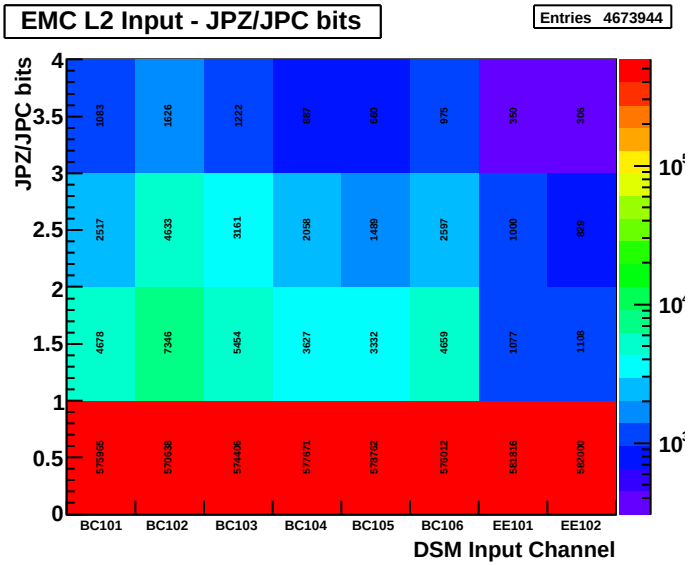

Endcap EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

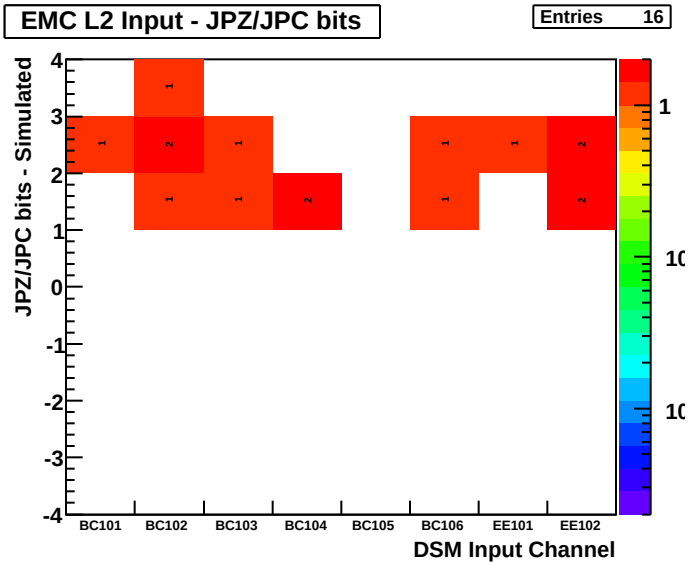

EMC L2 Input - JPX/JPA bits
Entries 4673944
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1899 1582 1227 733 2018 1174 322 402
5168 3978 2883 1589 5838 3238 975 984
7865 6743 4825 2894 7701 6378 1181 1102
568371 571940 575308 579027 568686 573453 581765 581755

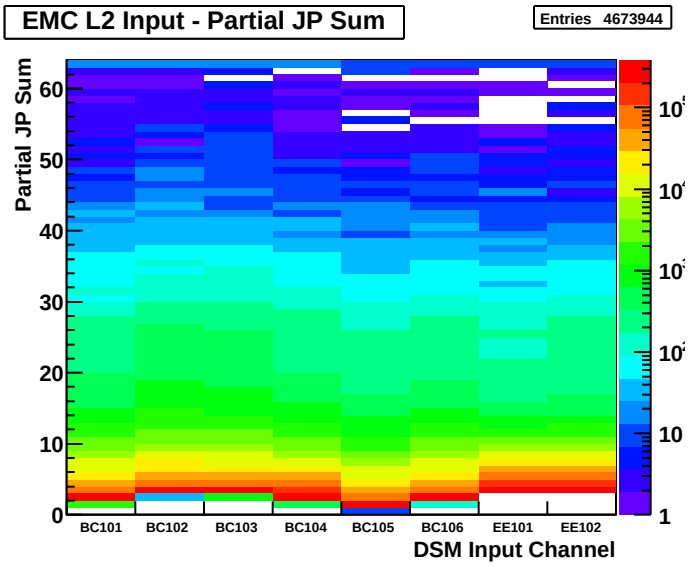

EMC L2 Input - JPX/JPA bits
Entries 718
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
521
170

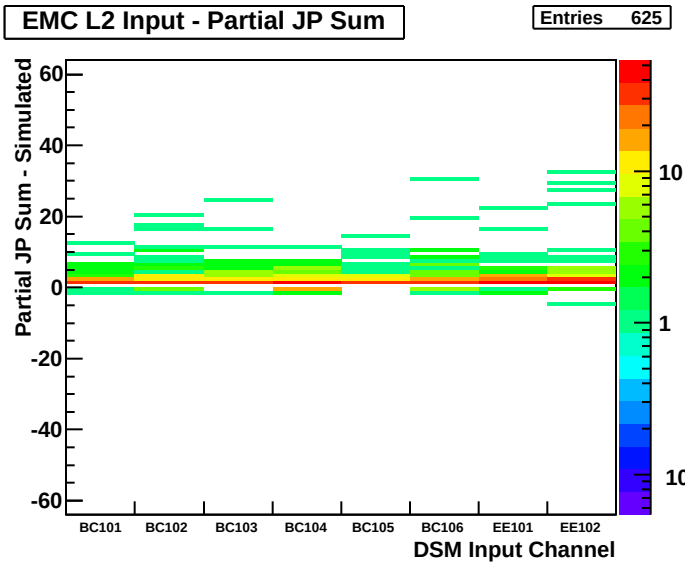

EMC L2 Input - JPY/JPB bits
Entries 4673944
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1349 1396 823 502 842 1650 298 371
3857 3747 2159 1194 2245 4757 800 955
7559 7158 4434 2505 5605 7782 944 1020
574478 571942 578827 580042 575551 570054 582201 581897

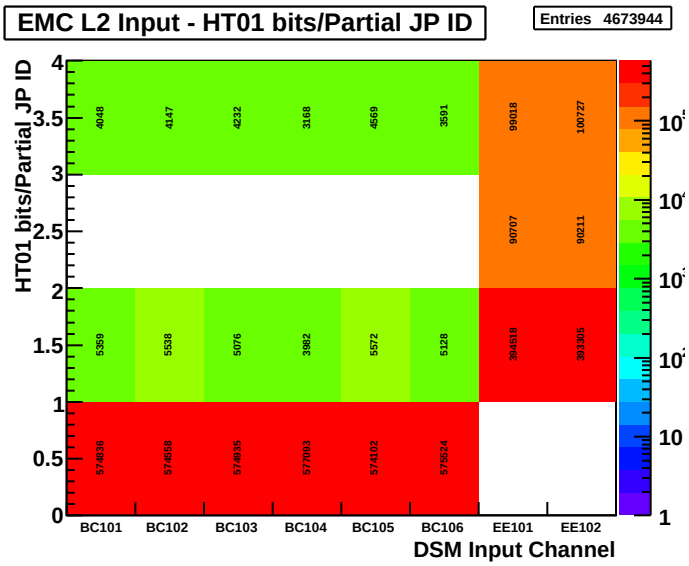

EMC L2 Input - JPY/JPB bits
Entries 708
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
406
282

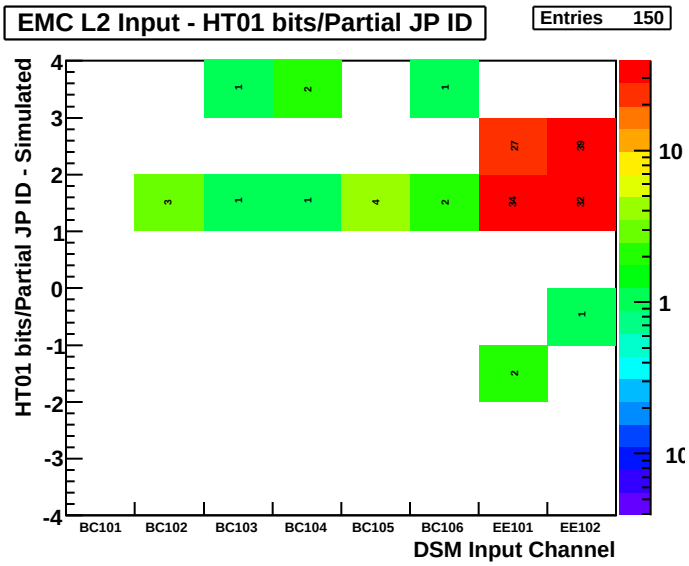

EMC L2 Input - JPZ/JPC bits
Entries 4673944
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1083 1626 1222 887 660 975 350 306
2517 4633 3161 2058 1489 2597 1000 829
4678 7346 5464 3627 3332 4659 1077 1108
575965 570538 574406 577671 578762 576012 581816 582000

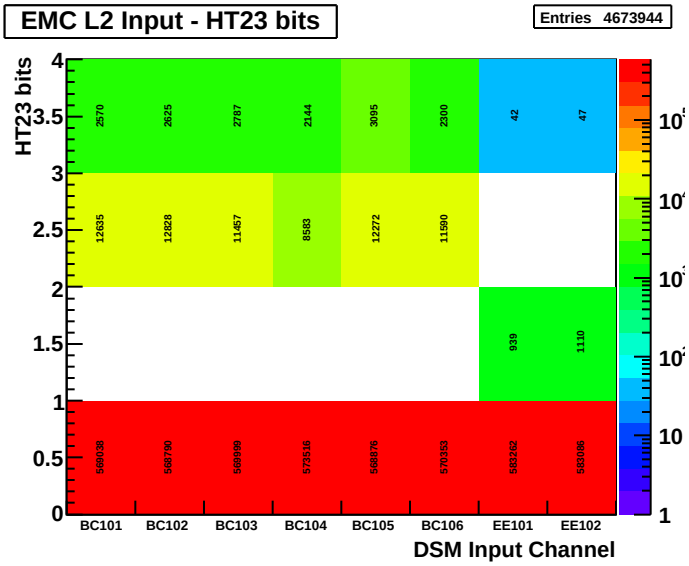

EMC L2 Input - JPZ/JPC bits
Entries 16
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

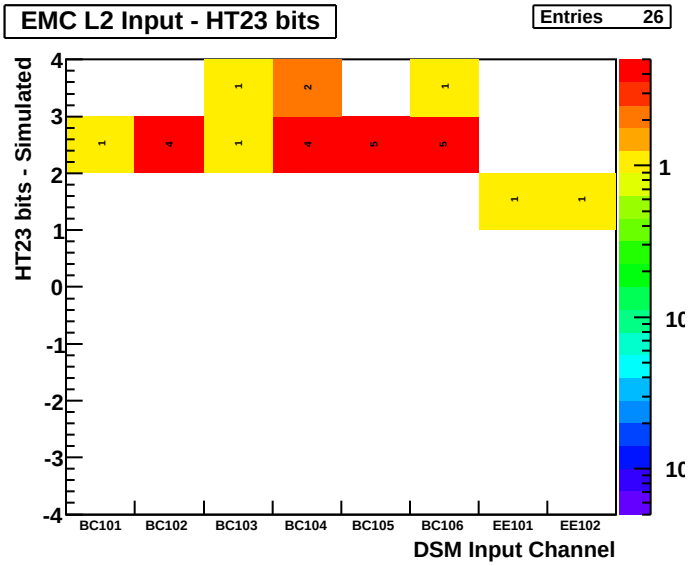

EMC L2 Input - Partial JP Sum
Entries 4673944
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

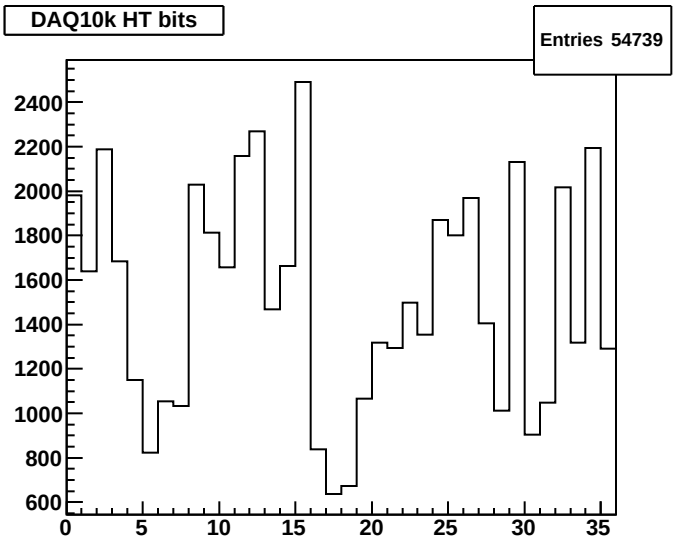

EMC L2 Input - Partial JP Sum
Entries 625
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

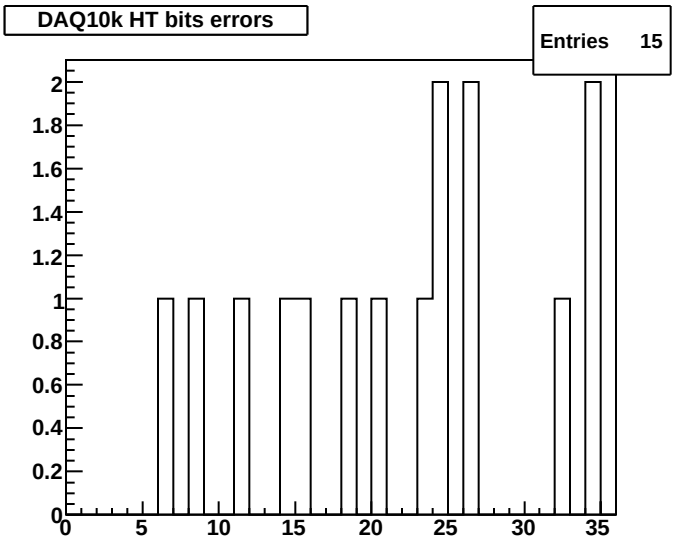

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4673944
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

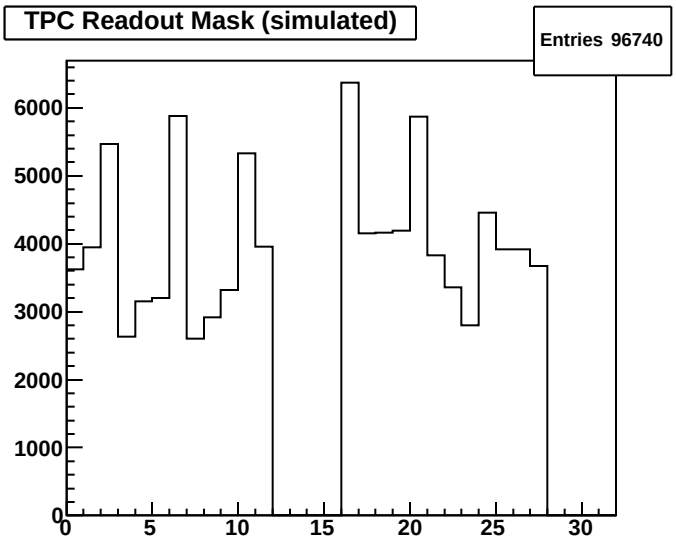

EMC L2 Input - HT01 bits/Partial JP ID
Entries 150
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

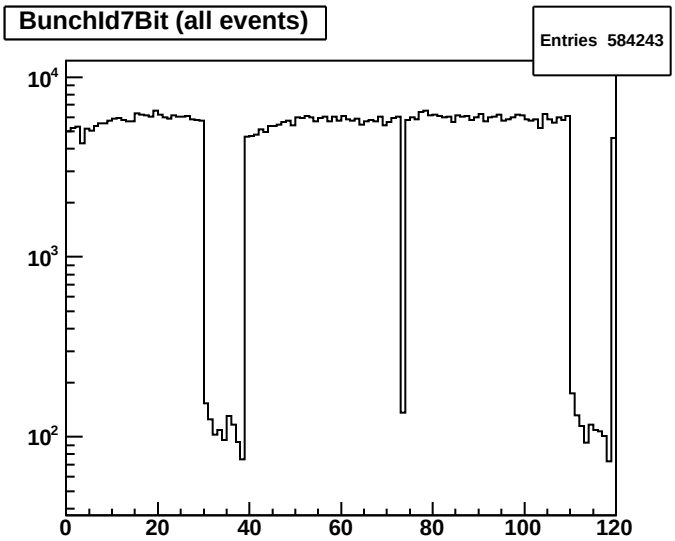

EMC L2 Input - HT23 bits
Entries 4673944
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

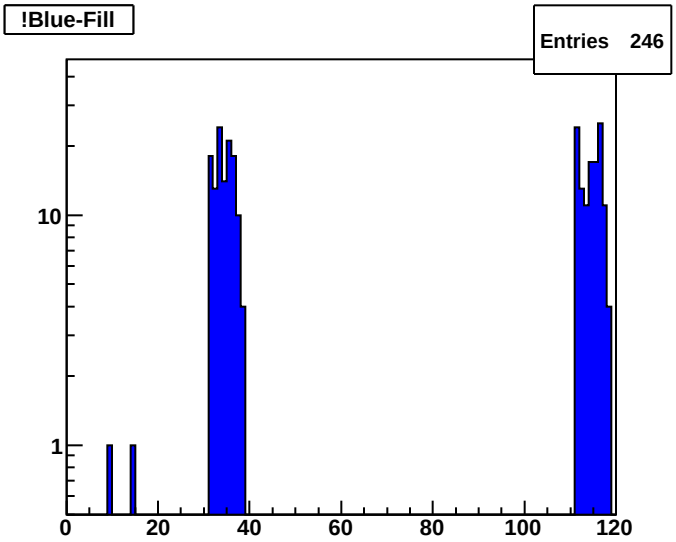

EMC L2 Input - HT23 bits
Entries 26
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

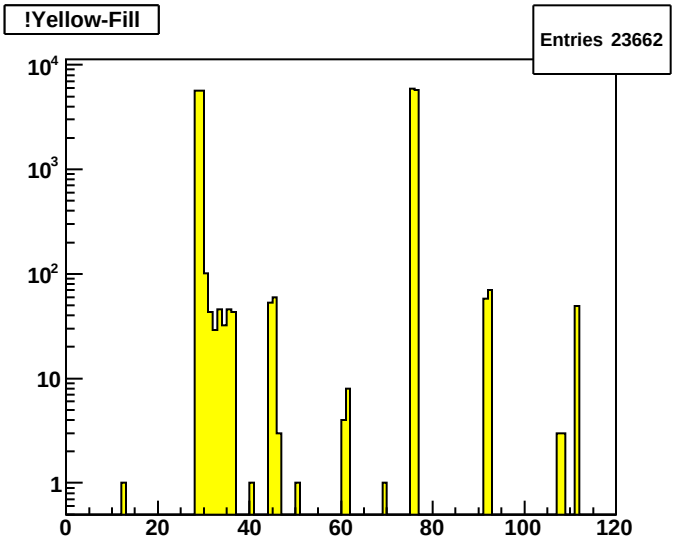

DAQ10k HT bits
Entries 54739

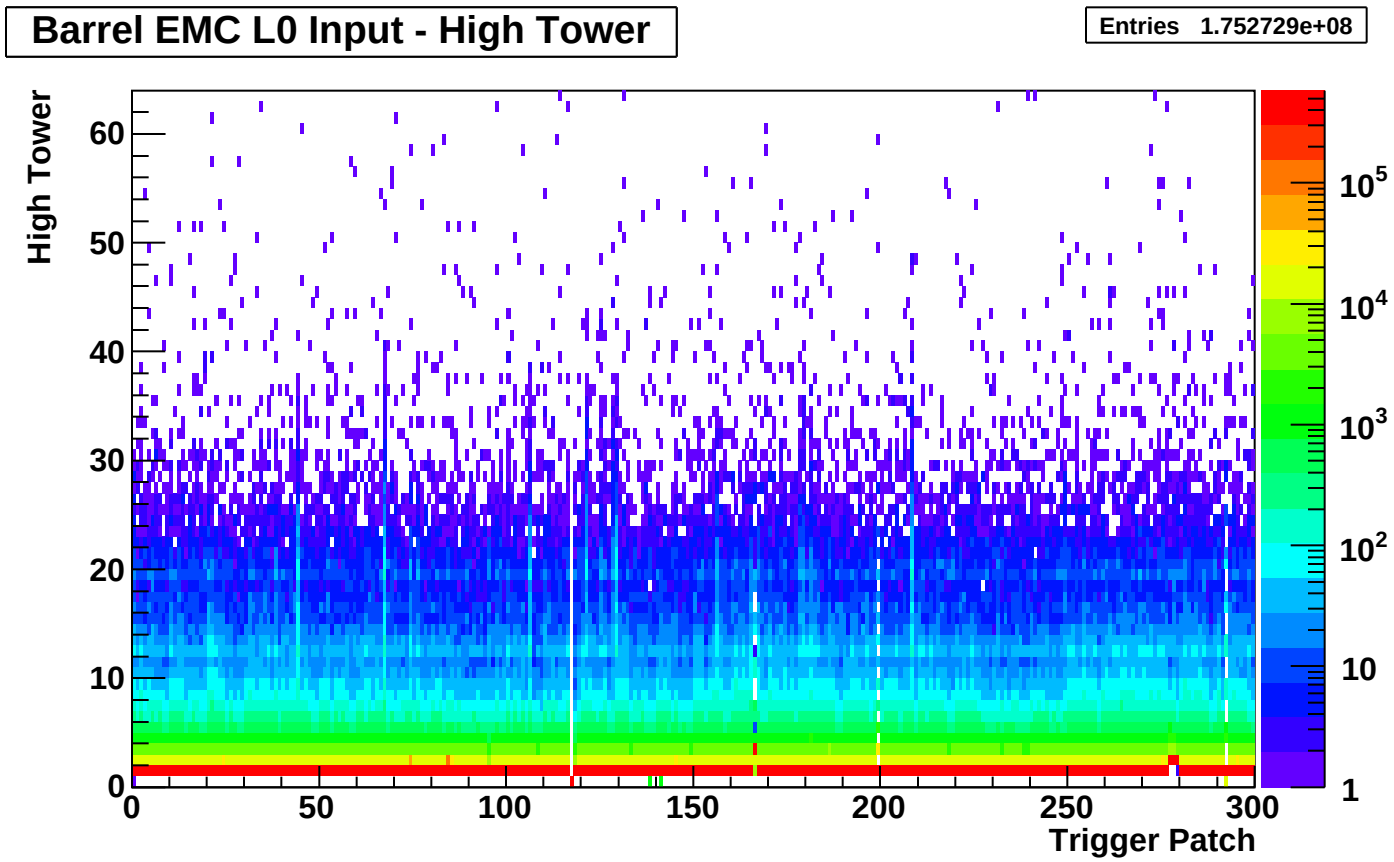

DAQ10k HT bits errors
Entries 15

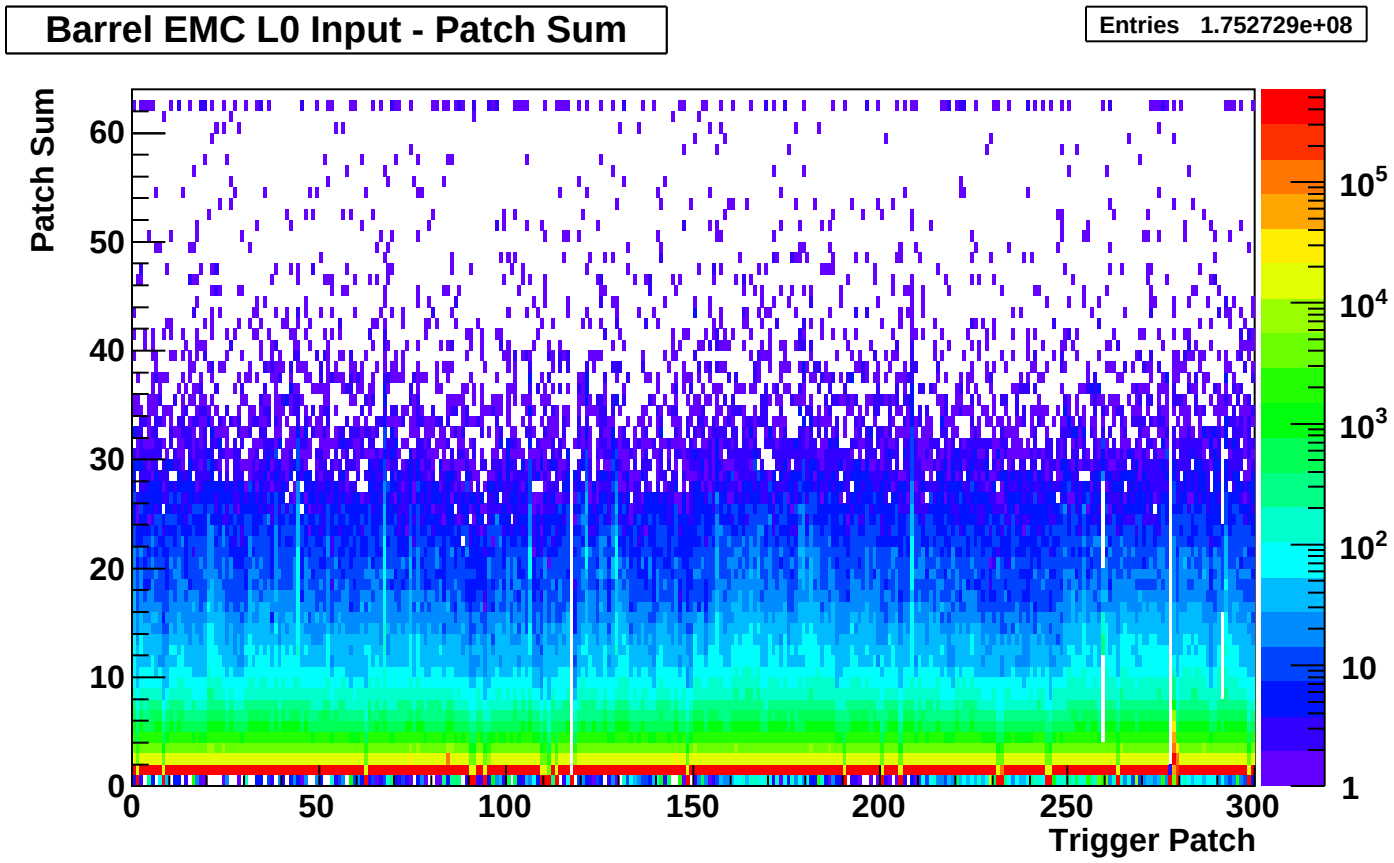

TPC Readout Mask (simulated)
Entries 96740

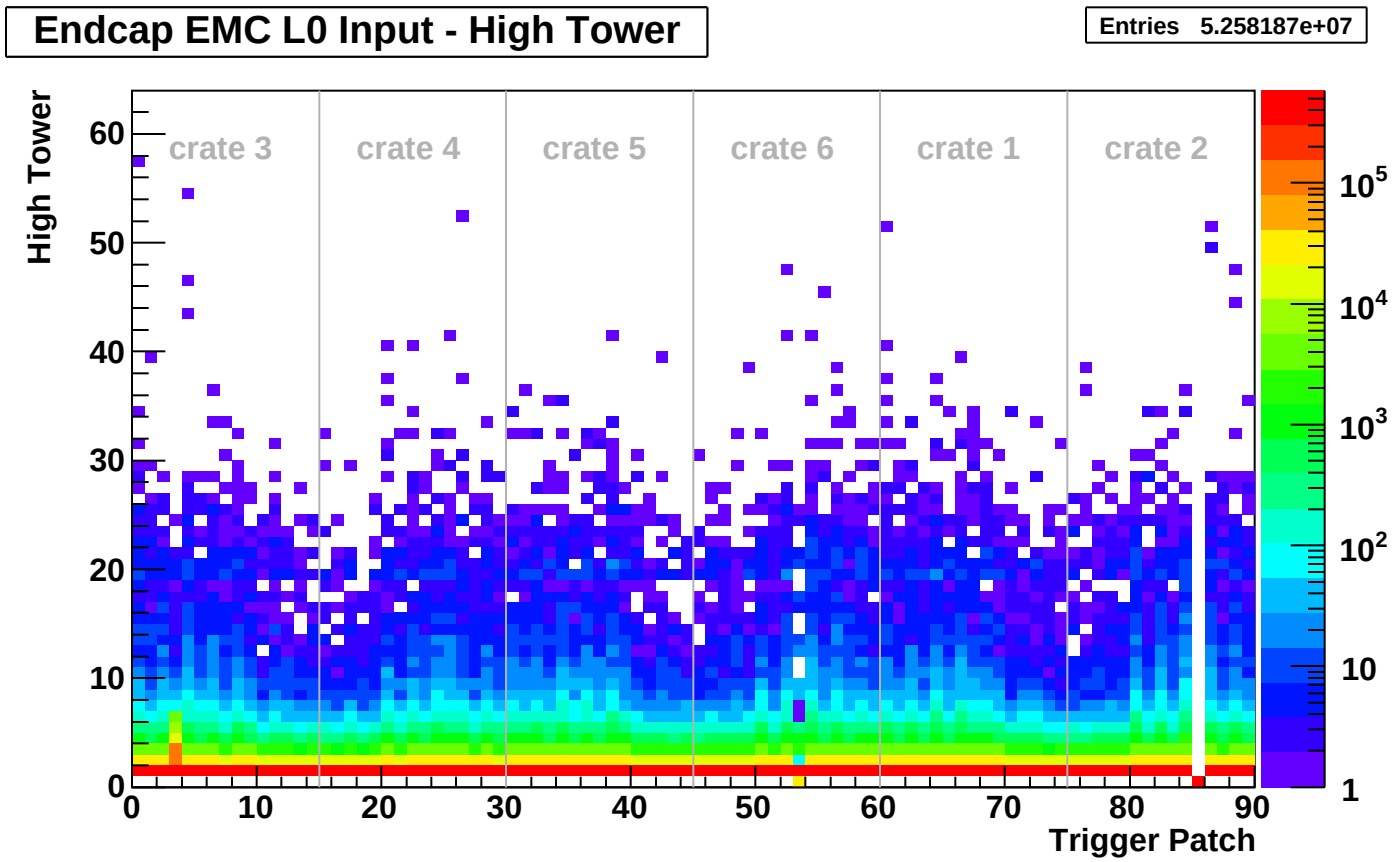

BunchId7Bit (all events)
Entries 584243

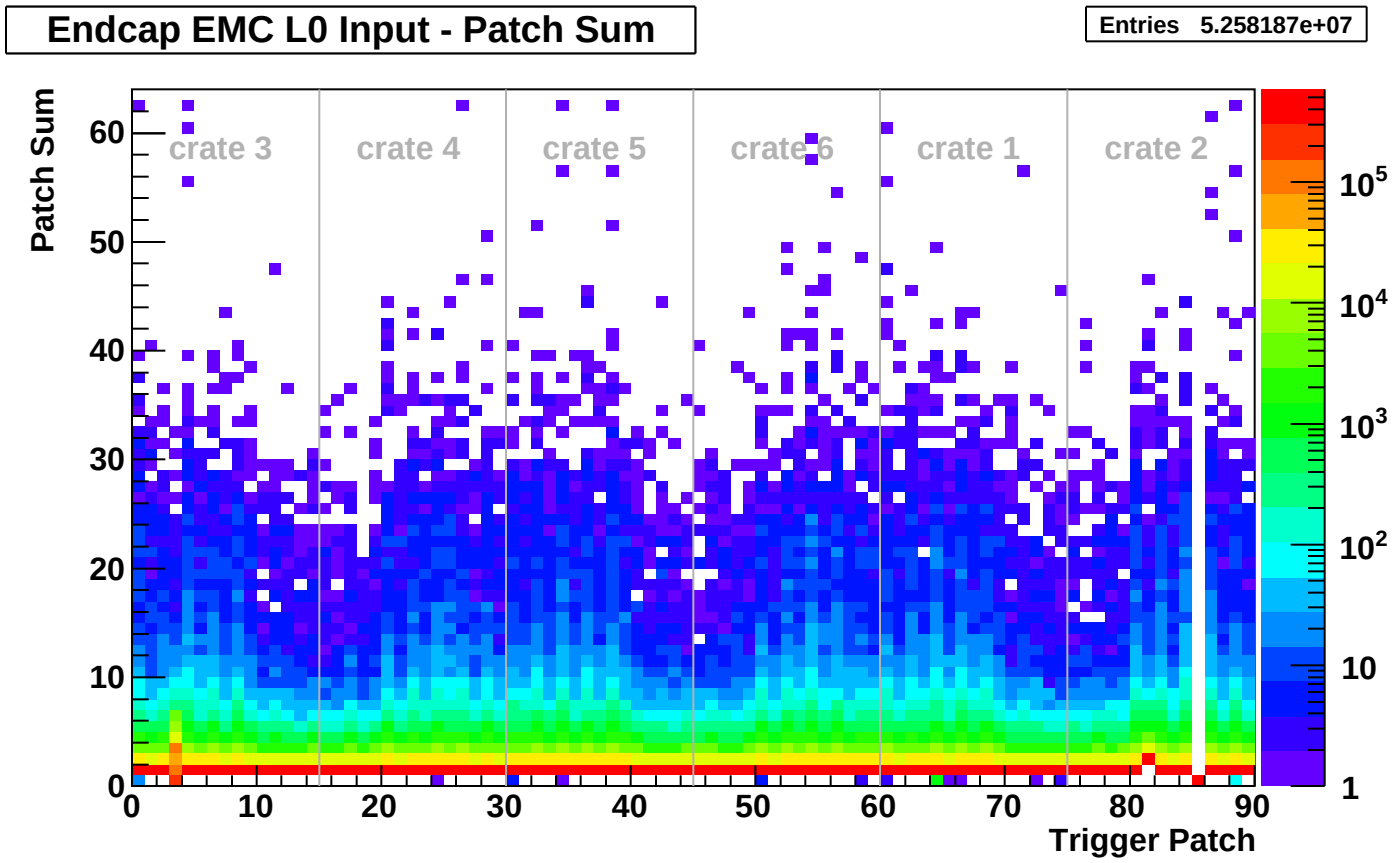

!Blue-Fill
Entries 246

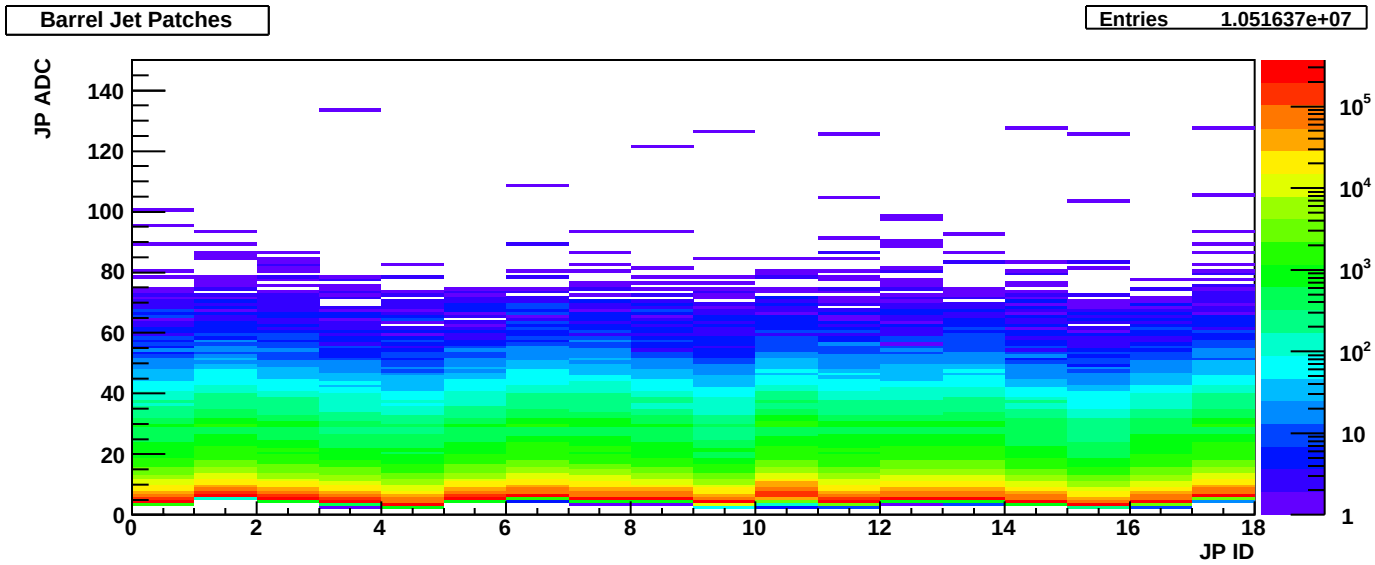

!Yellow-Fill
Entries 23662

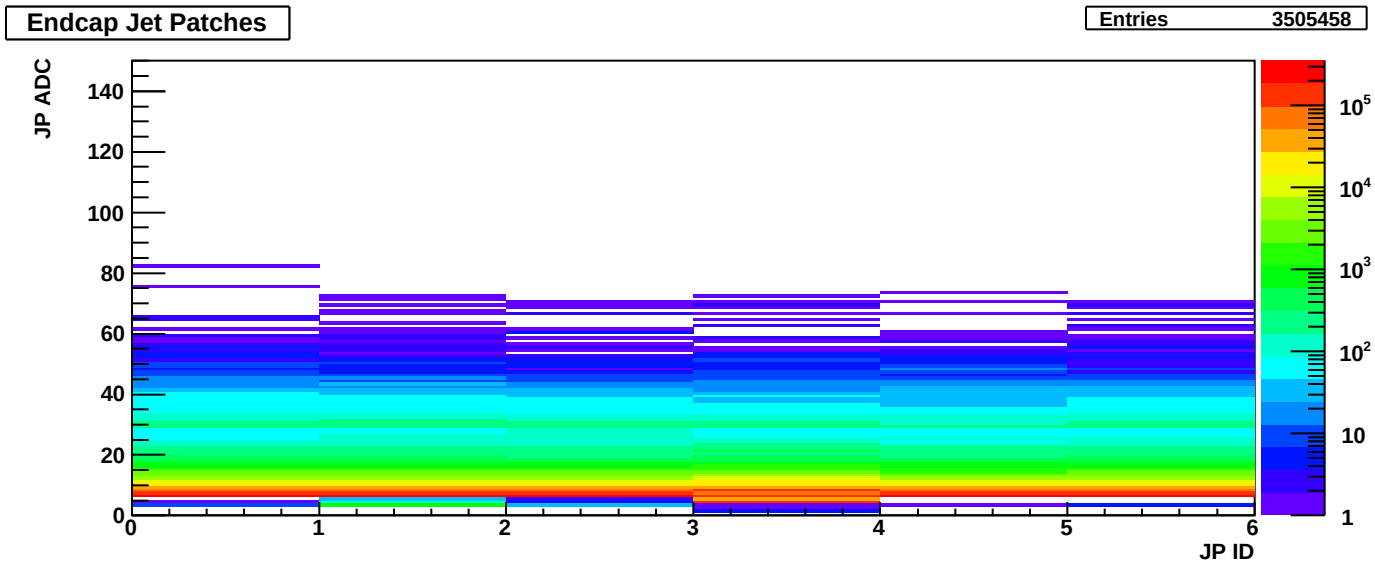

Barrel EMC L0 Input - High Tower
Entries 1.752729e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

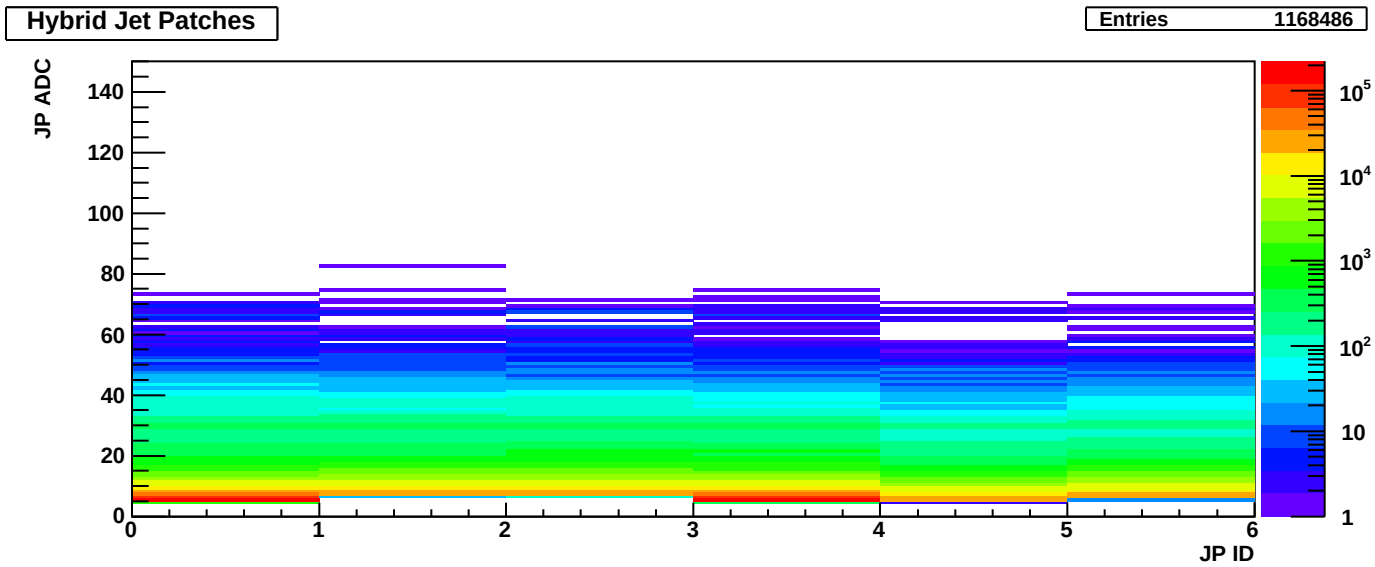

Barrel EMC L0 Input - Patch Sum
Entries 1.752729e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

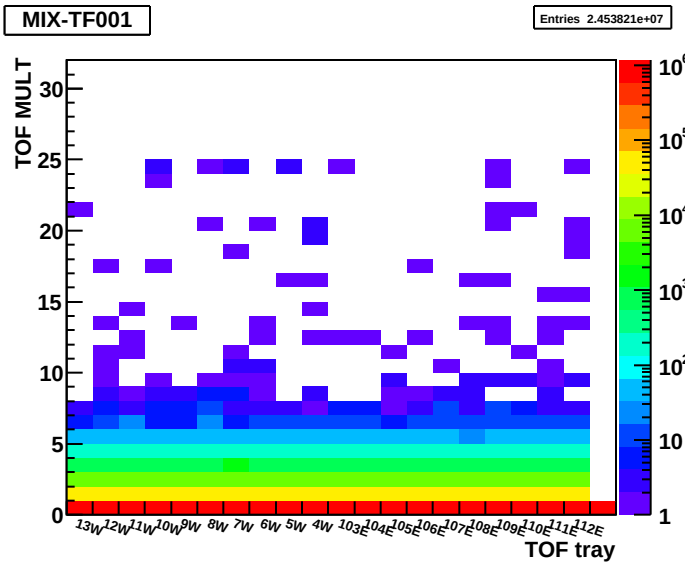

Endcap EMC L0 Input - High Tower
Entries 5.258187e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

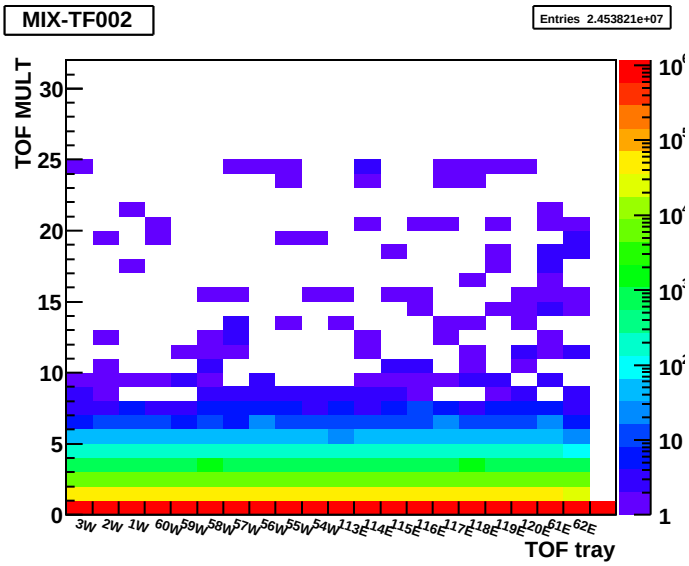

Endcap EMC L0 Input - Patch Sum
Entries 5.258187e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

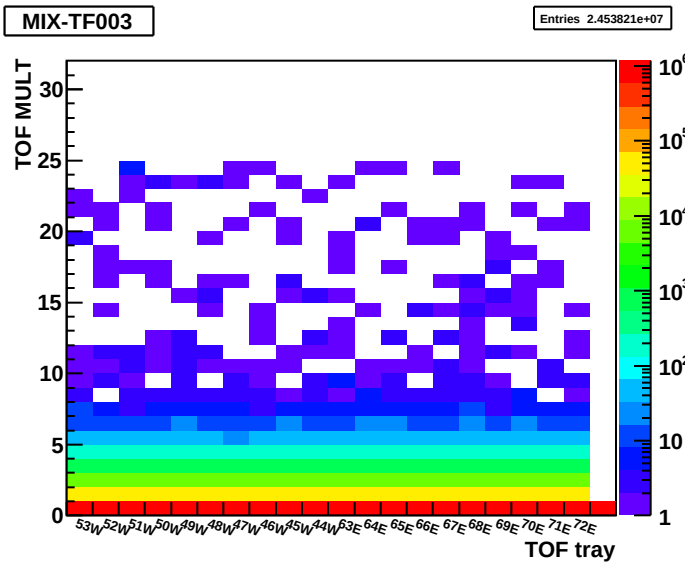

Barrel Jet Patches
Entries 1.051637e+07
JP ADC
JP ID

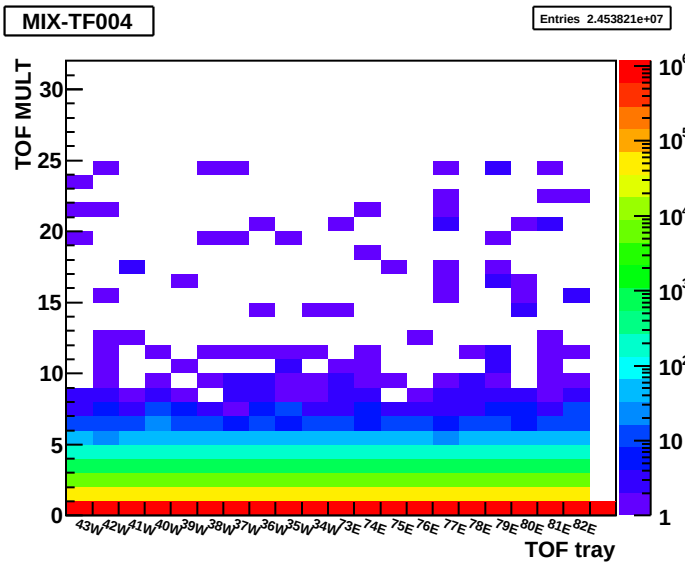

Endcap Jet Patches
Entries 3505458
JP ADC
JP ID

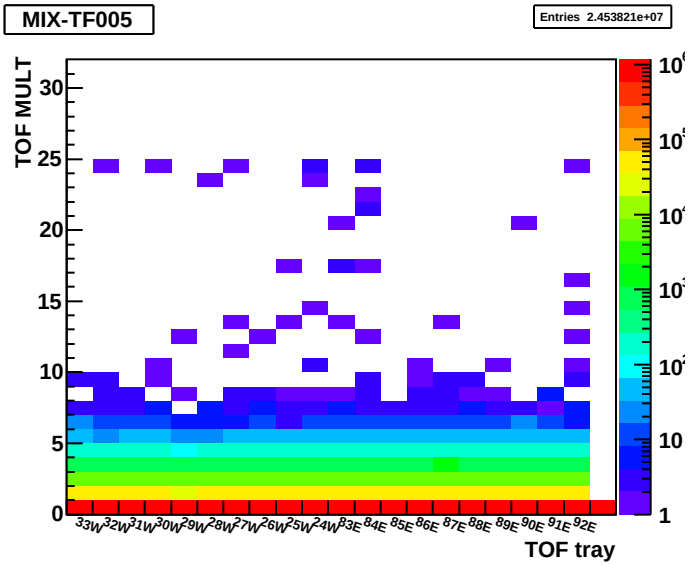

Hybrid Jet Patches
Entries 1168486
JP ADC
JP ID

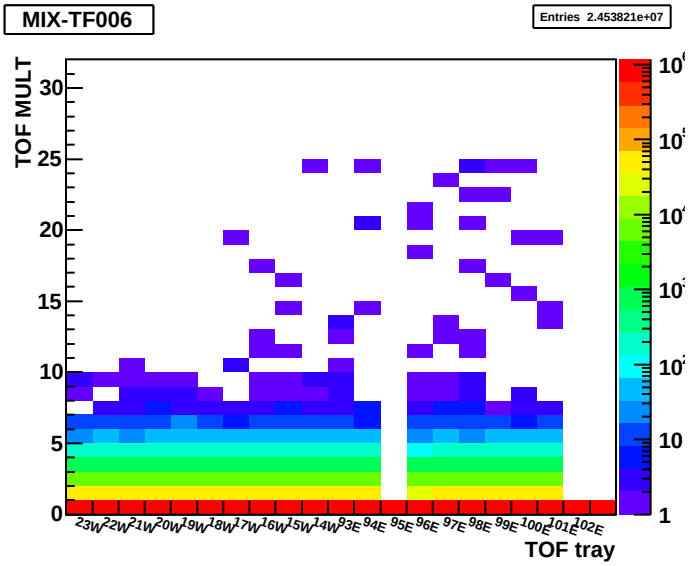

MIX-TF001
Entries 2.453821e+07
TOF MULT
TOF tray

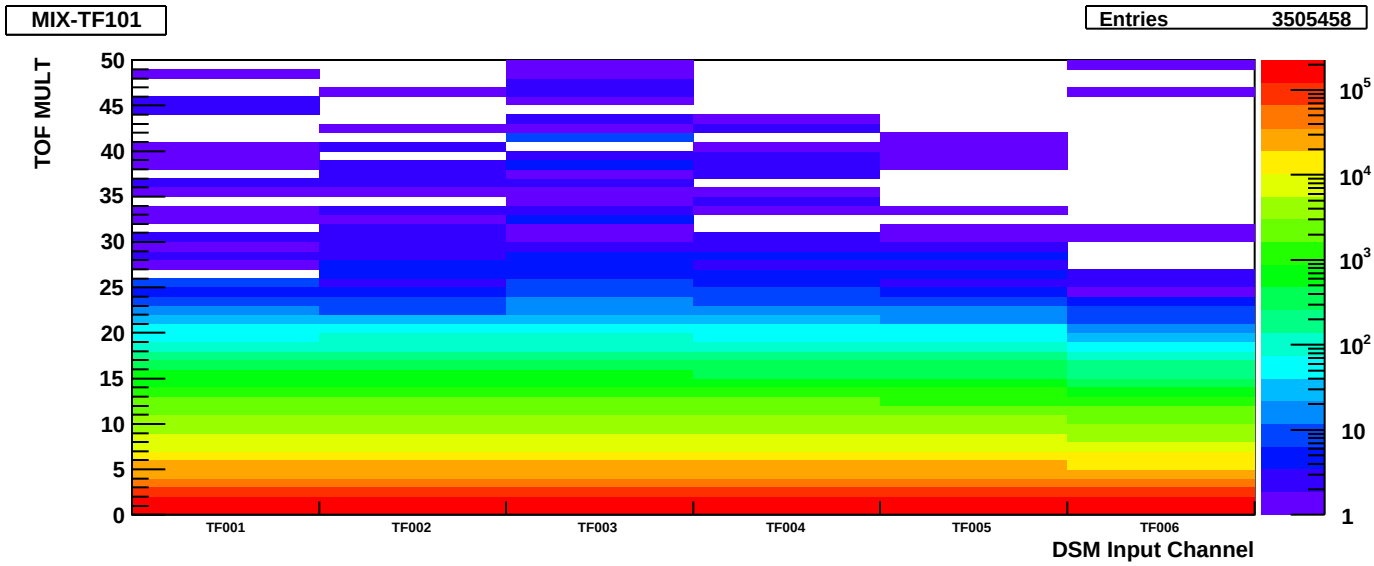

MIX-TF002
Entries 2.453821e+07
TOF MULT
TOF tray

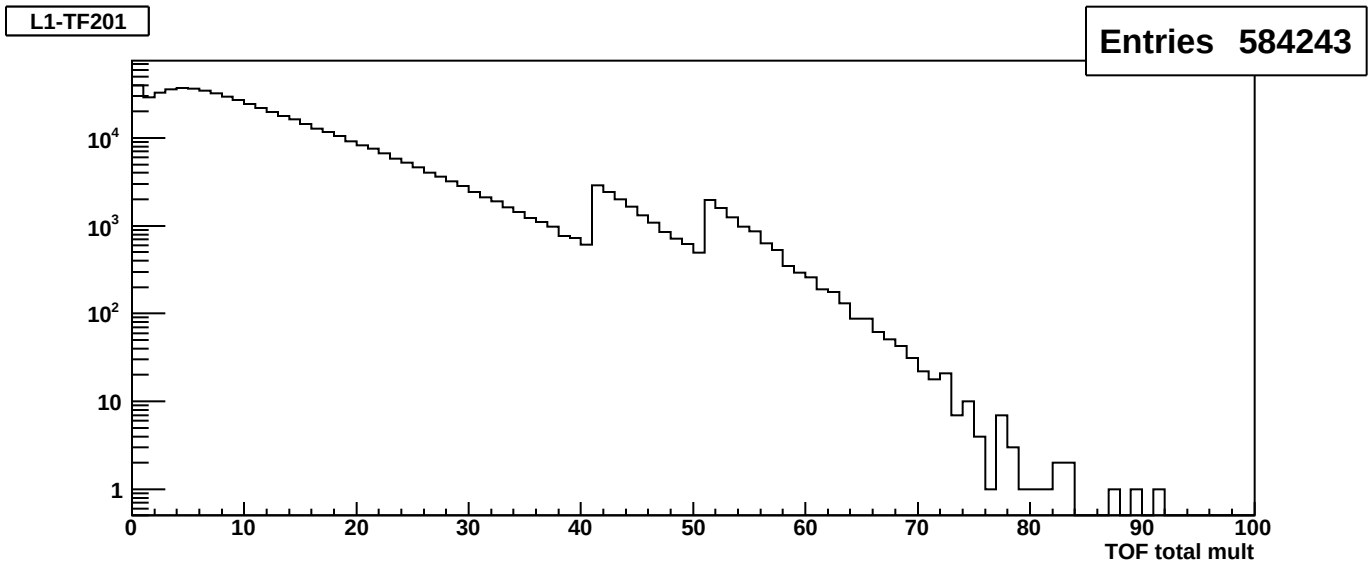

MIX-TF003
Entries 2.453821e+07
TOF MULT
TOF tray

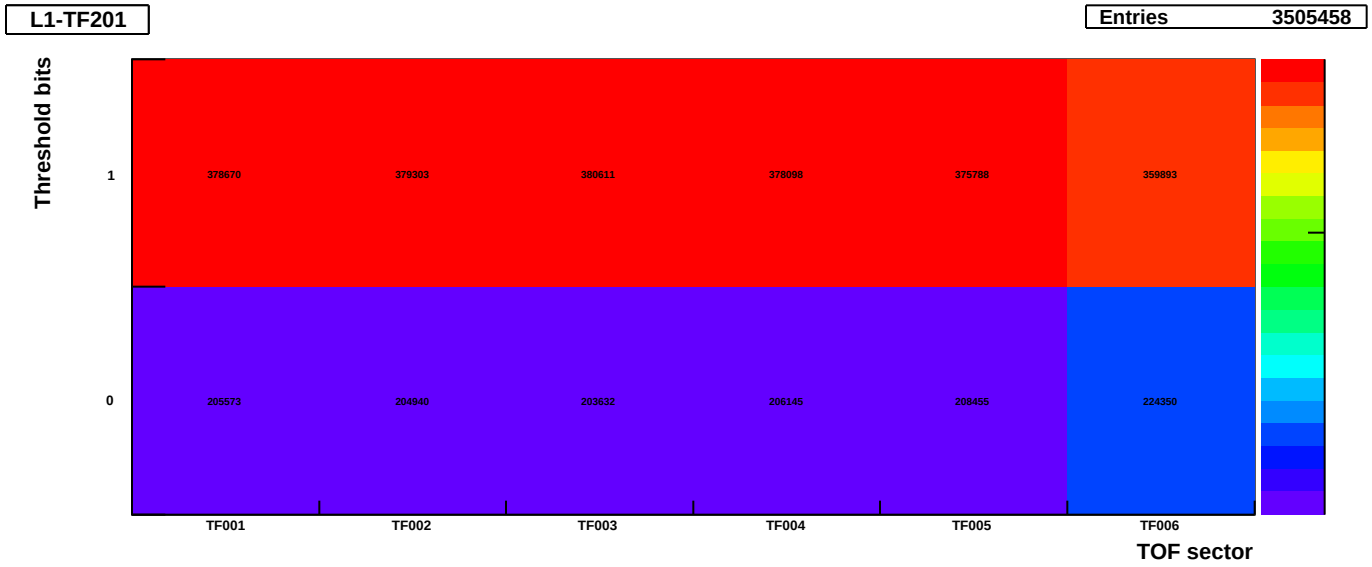

MIX-TF004
Entries 2.453821e+07
TOF MULT
TOF tray

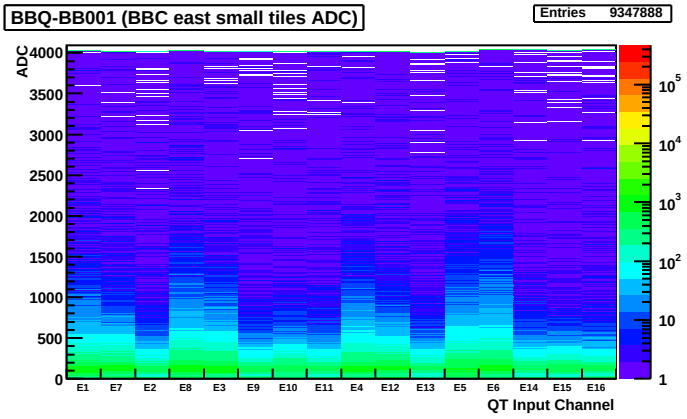

MIX-TF005
Entries 2.453821e+07
TOF MULT
TOF tray

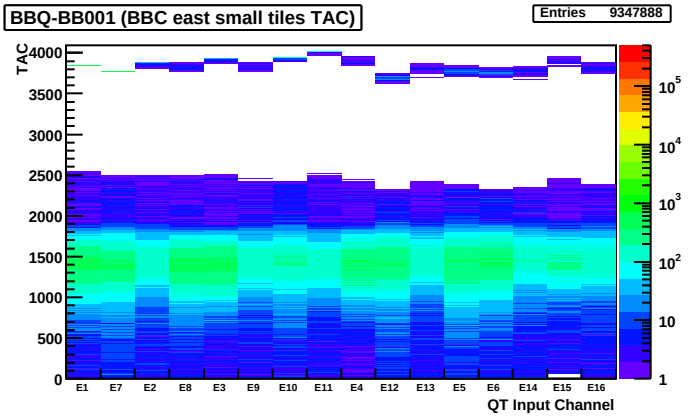

MIX-TF006
Entries 2.453821e+07
TOF MULT
TOF tray

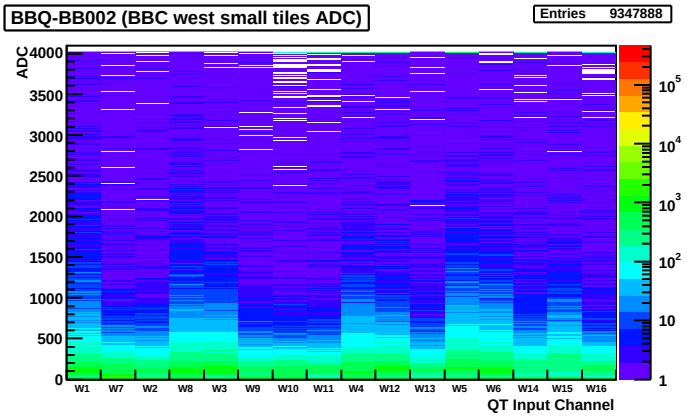

MIX-TF101
Entries 3505458
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

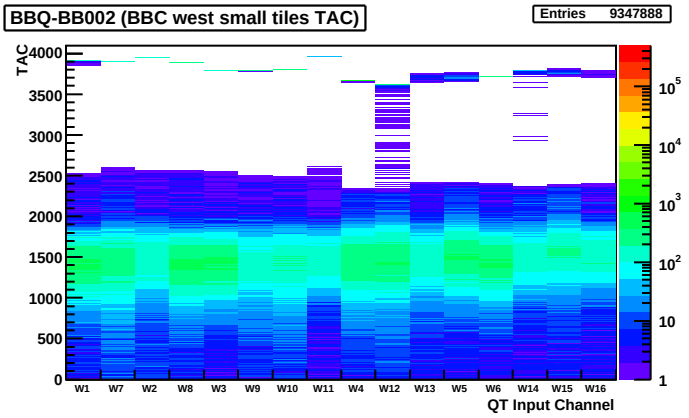

L1-TF201
Entries 584243
TOF total mult

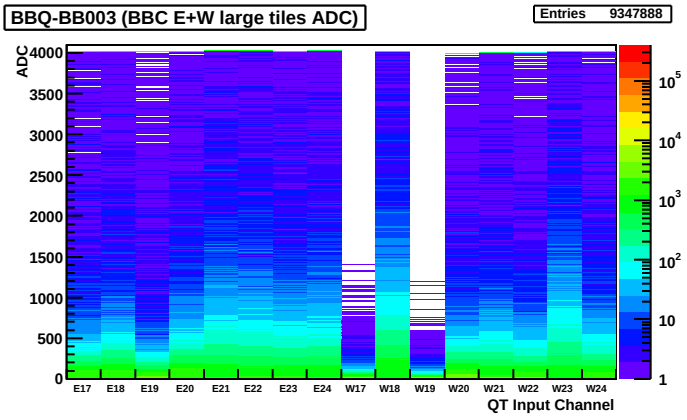

L1-TF201
Entries 3505458
Threshold bits
378670
379303
380611
378098
375788
359893
205573
204940
203632
206145
208455
224350
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

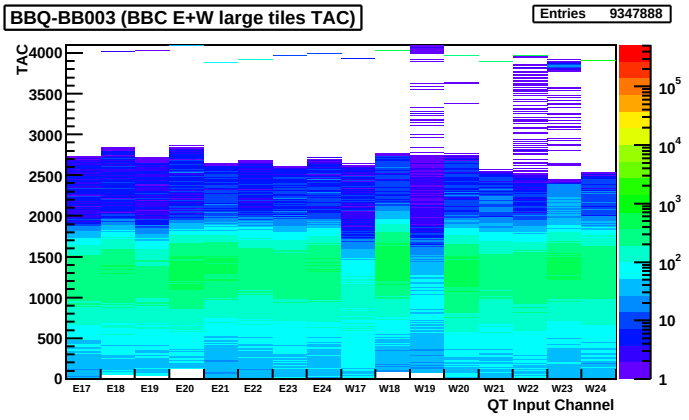

BBQ-BB001 (BBC east small tiles ADC)
Entries 9347888
ADC
QT Input Channel

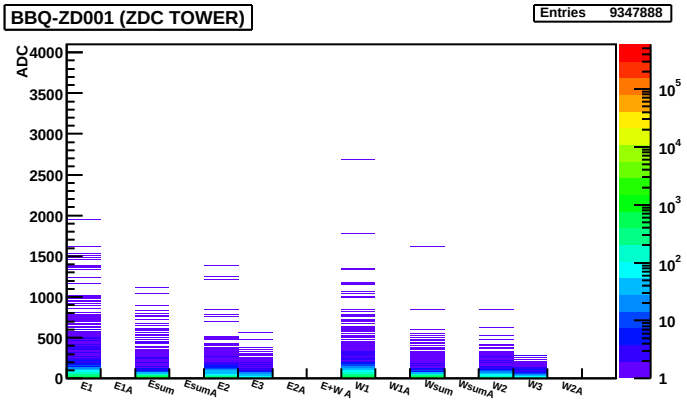

BBQ-BB001 (BBC east small tiles TAC)
Entries 9347888
TAC
QT Input Channel

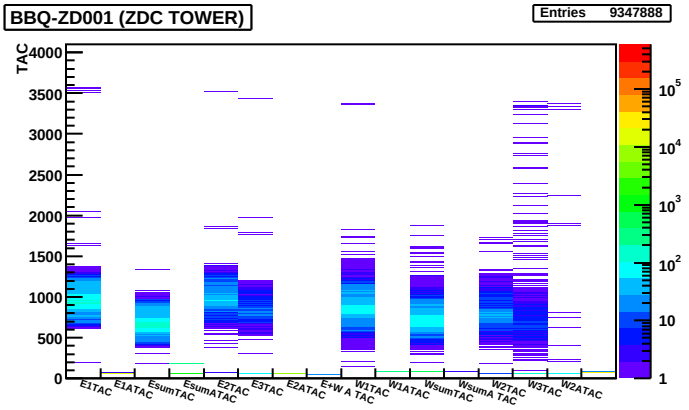

BBQ-BB002 (BBC west small tiles ADC)
Entries 9347888
ADC
QT Input Channel

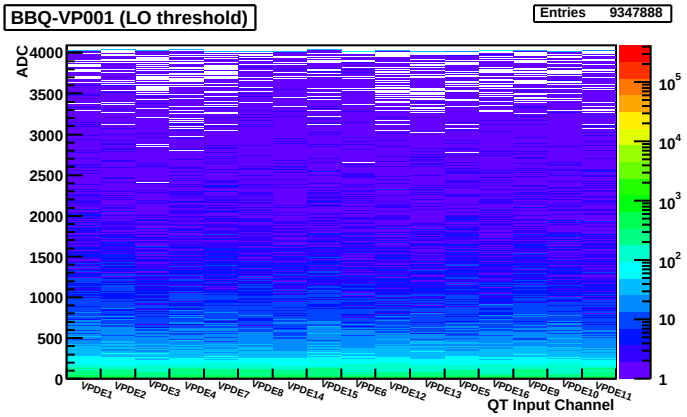

BBQ-BB002 (BBC west small tiles TAC)
Entries 9347888
TAC
QT Input Channel

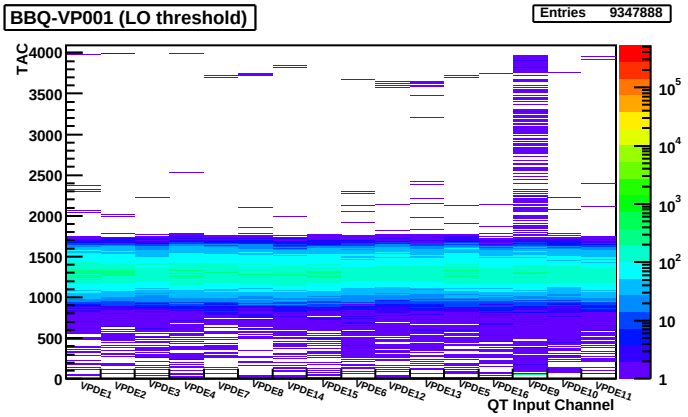

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9347888
ADC
QT Input Channel

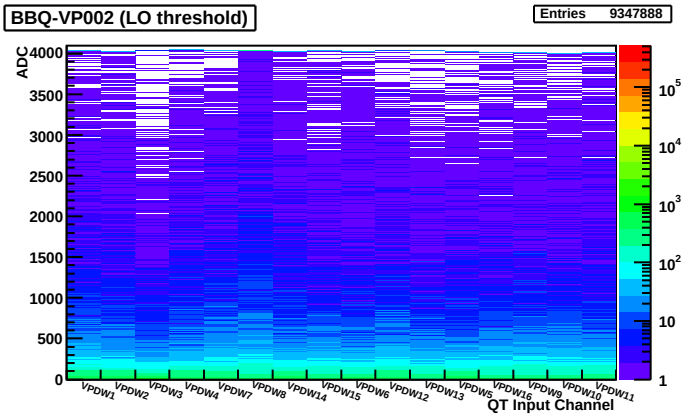

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9347888
TAC
QT Input Channel

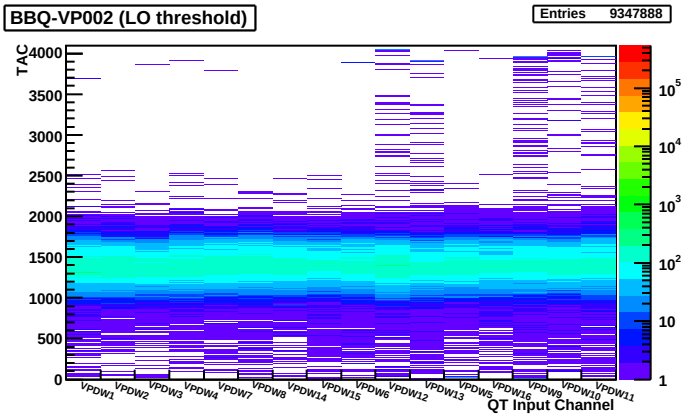

BBQ-ZD001 (ZDC TOWER)
Entries 9347888
ADC

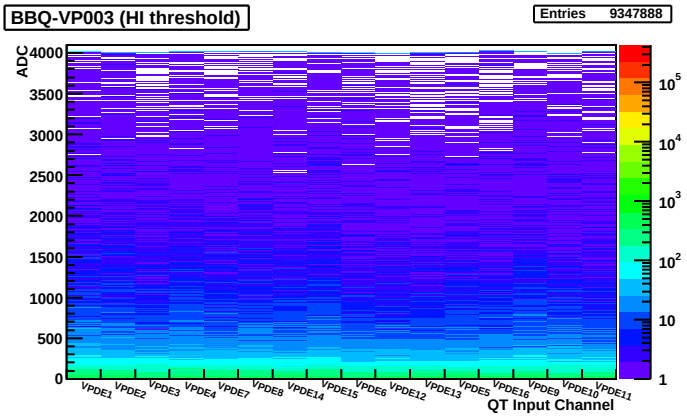

BBQ-ZD001 (ZDC TOWER)
Entries 9347888
TAC

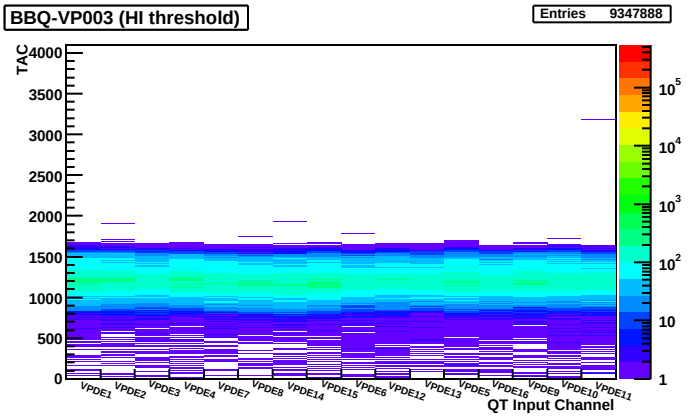

BBQ-VP001 (LO threshold)
Entries 9347888
ADC
QT Input Channel

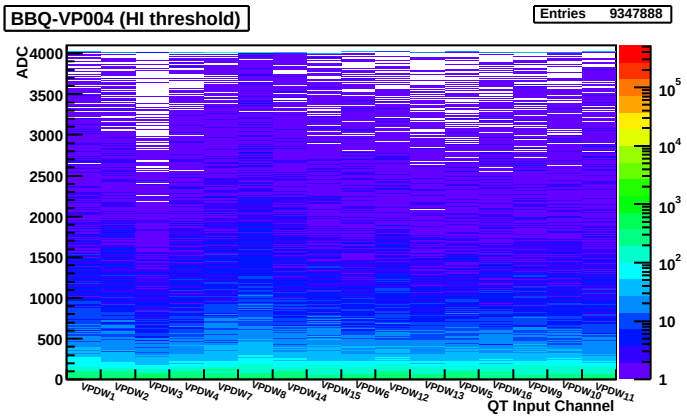

BBQ-VP001 (LO threshold)
Entries 9347888
TAC
QT Input Channel

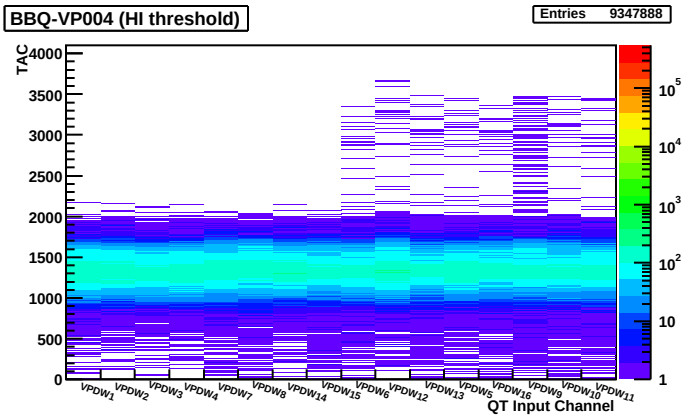

BBQ-VP002 (LO threshold)
Entries 9347888
ADC
QT Input Channel

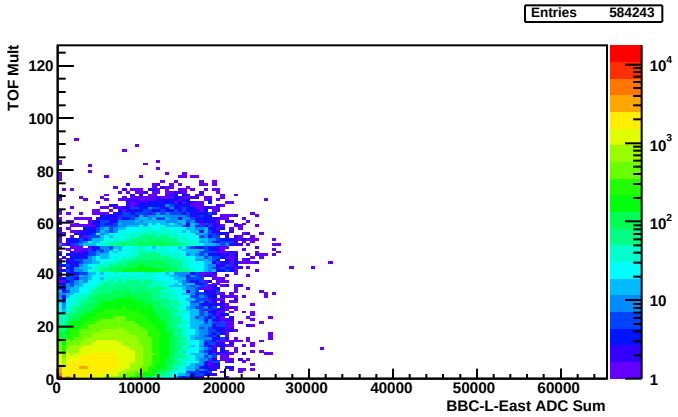

BBQ-VP002 (LO threshold)
Entries 9347888
TAC
QT Input Channel

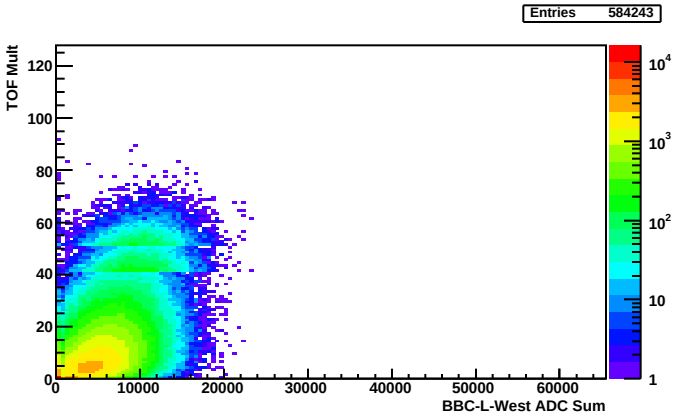

BBQ-VP003 (HI threshold)
Entries 9347888
ADC
QT Input Channel

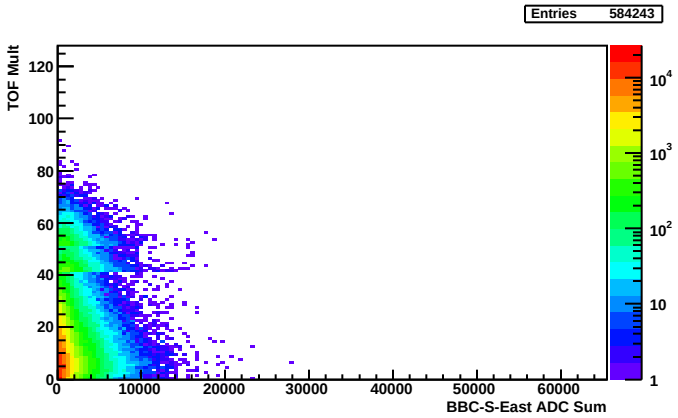

BBQ-VP003 (HI threshold)
Entries 9347888
TAC
QT Input Channel

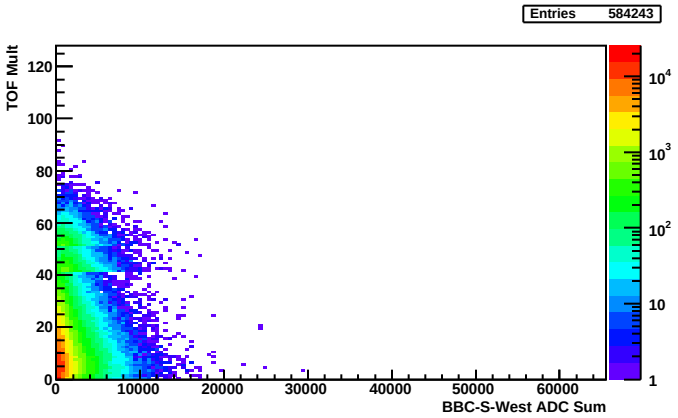

BBQ-VP004 (HI threshold)
Entries 9347888
ADC
QT Input Channel

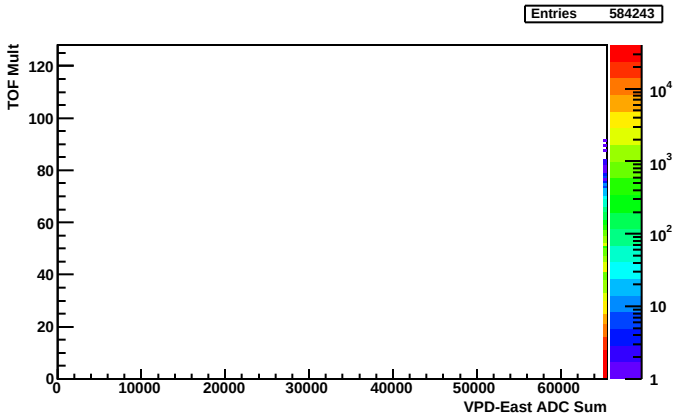

BBQ-VP004 (HI threshold)
Entries 9347888
TAC
QT Input Channel

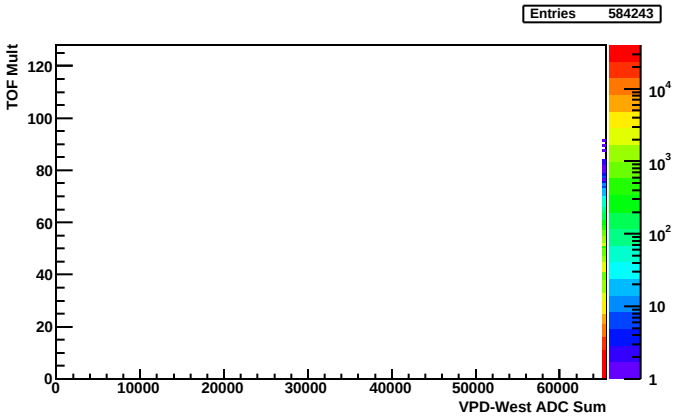

Entries 584243
TOF Mult
BBC-L-East ADC Sum

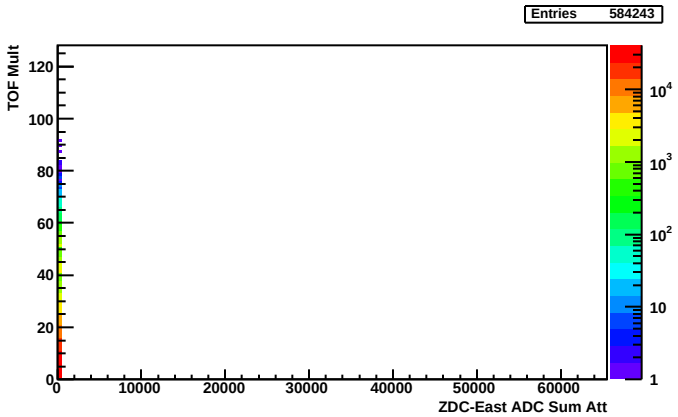

Entries 584243
TOF Mult
BBC-L-West ADC Sum

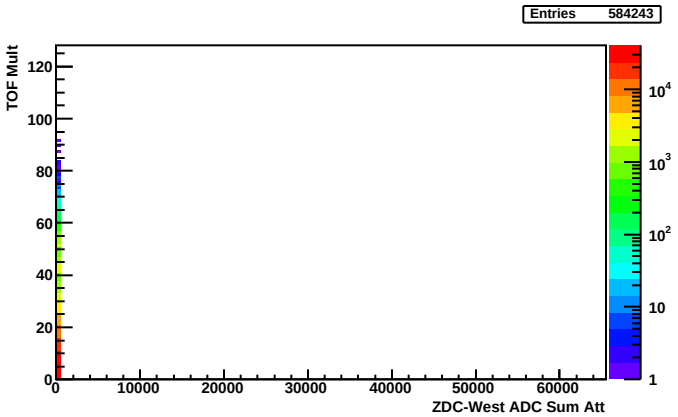

Entries 584243
TOF Mult
BBC-S-East ADC Sum

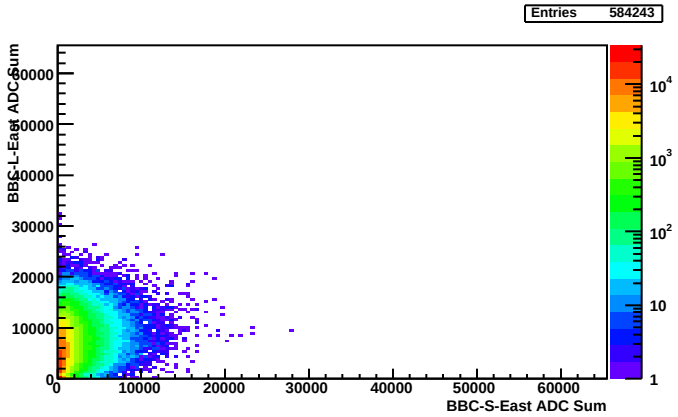

Entries 584243
TOF Mult
BBC-S-West ADC Sum

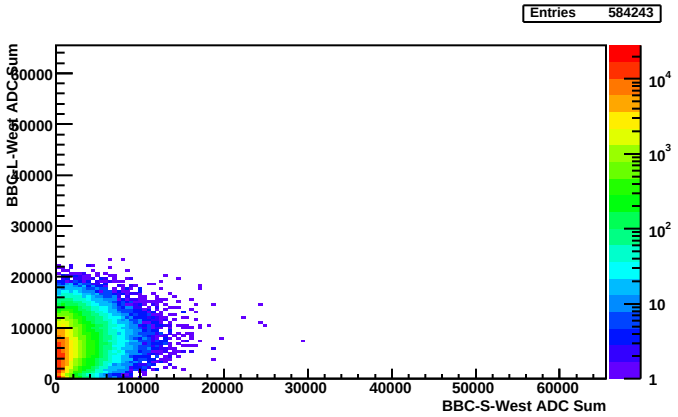

Entries 584243
TOF Mult
VPD-East ADC Sum

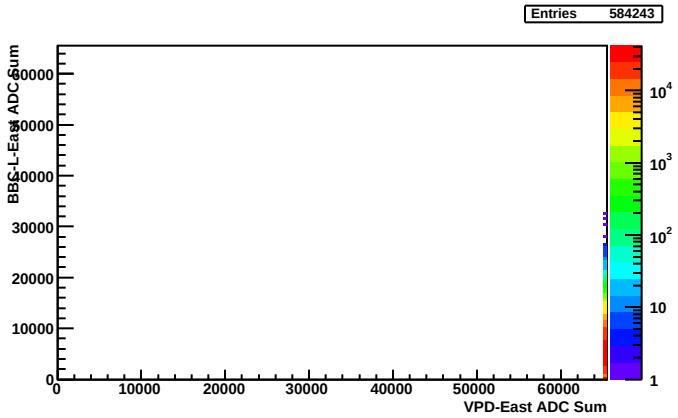

Entries 584243
TOF Mult
VPD-West ADC Sum

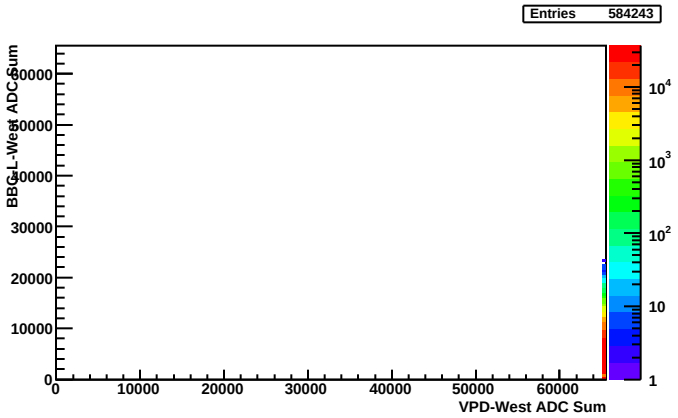

Entries 584243
TOF Mult
ZDC-East ADC Sum Att

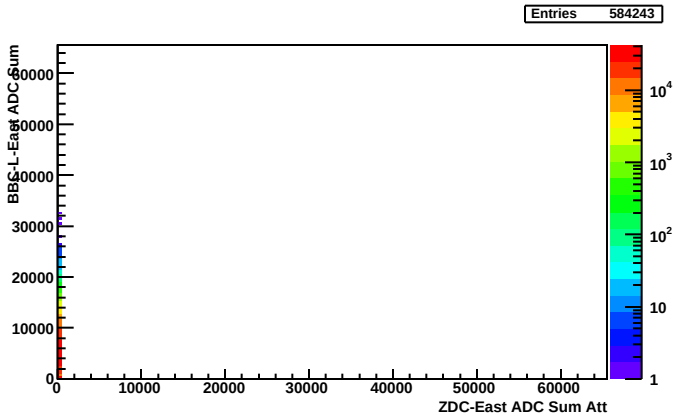

Entries 584243
TOF Mult
ZDC-West ADC Sum Att

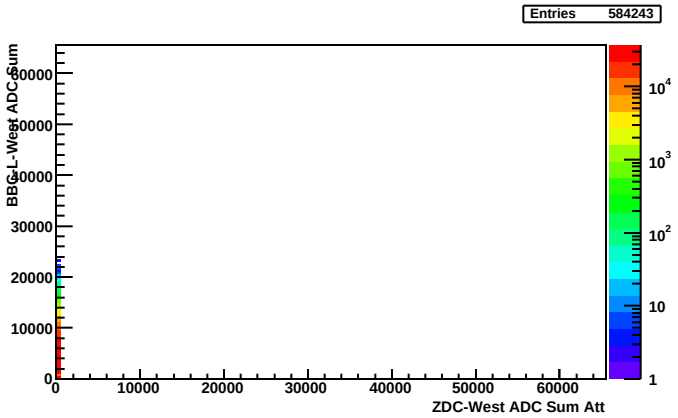

Entries 584243
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 584243
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 584243
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 584243
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 584243
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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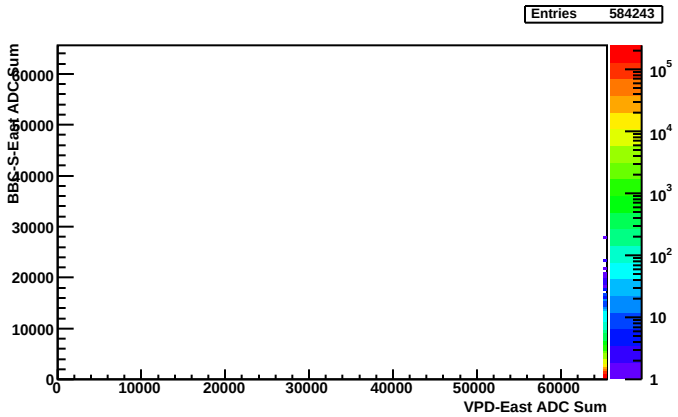
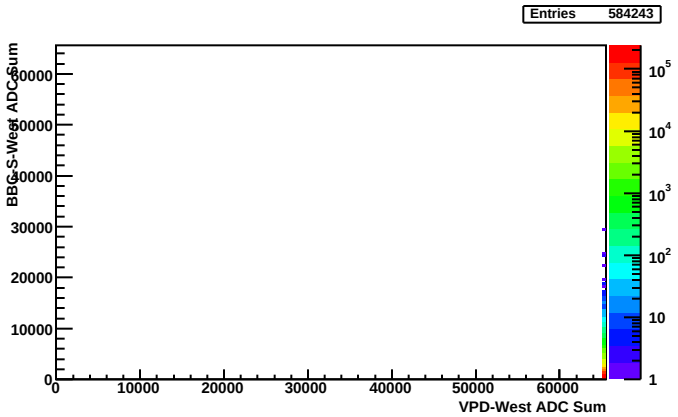
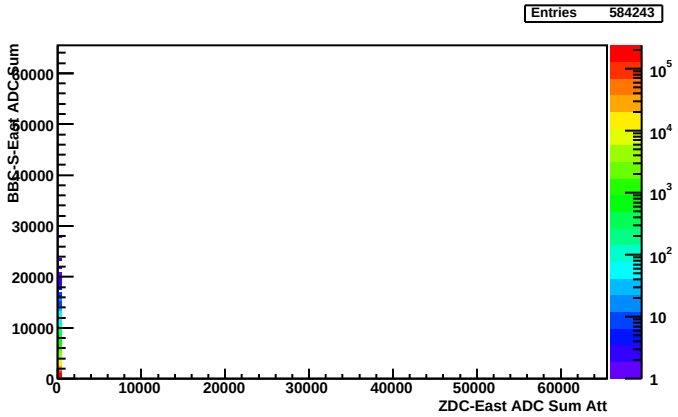
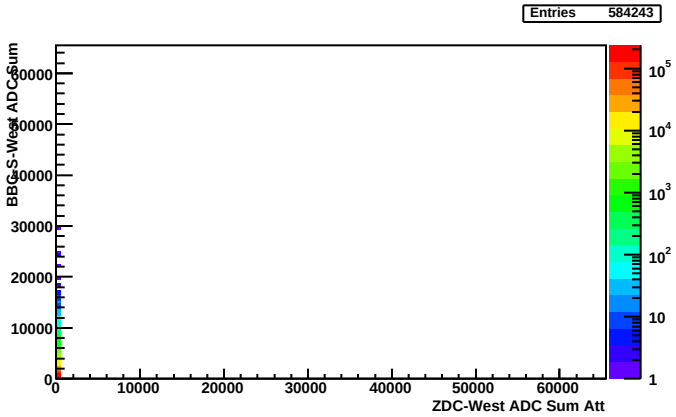
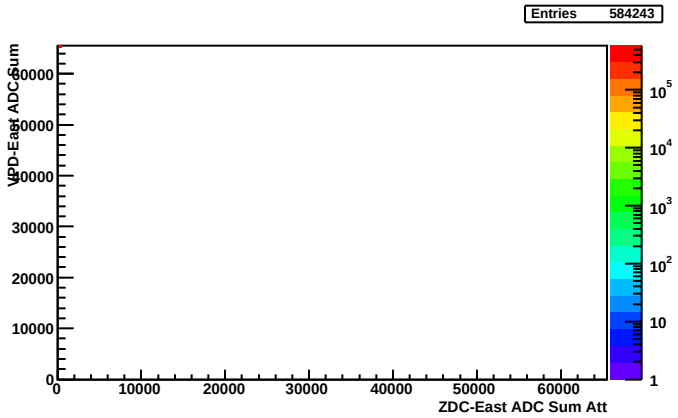
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

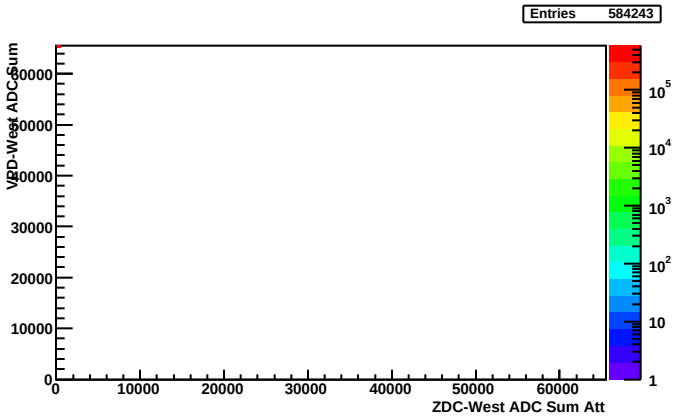

Entries 584243
BBC-S-East ADC Sum
VPD-East ADC Sum

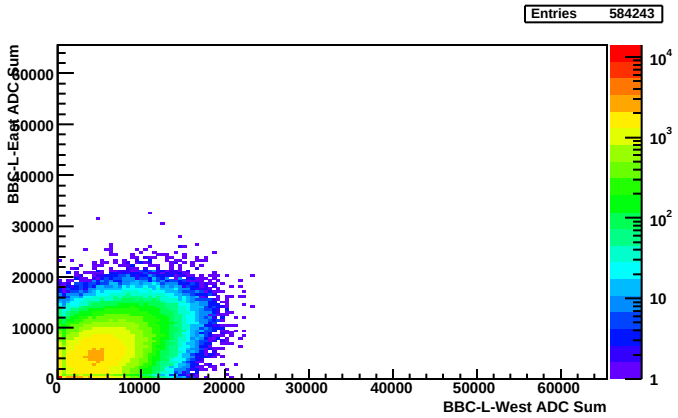

Entries 584243
BBC-S-West ADC Sum
VPD-West ADC Sum

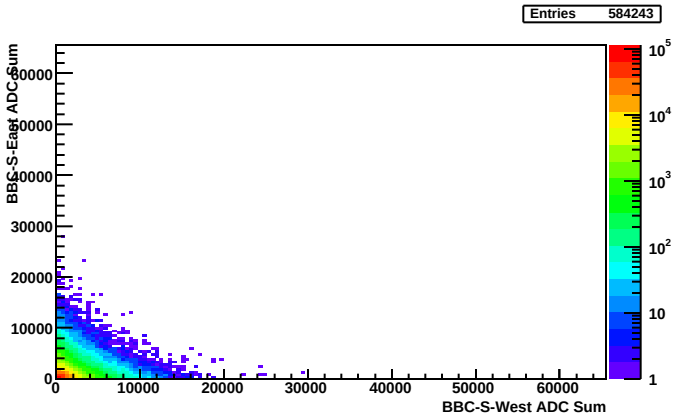

Entries 584243
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

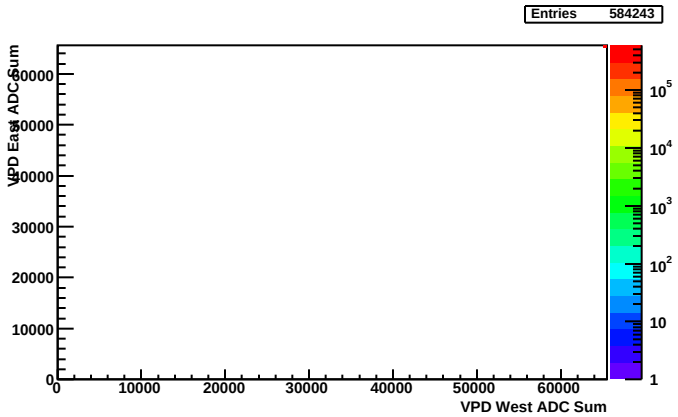

Entries 584243
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

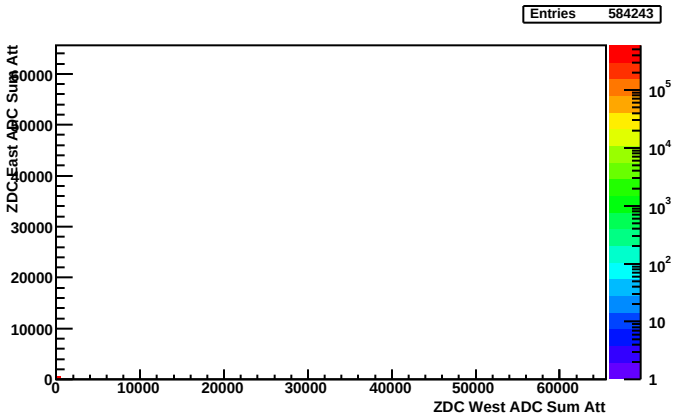

Entries 584243
VPD-East ADC Sum
ZDC-East ADC Sum Att

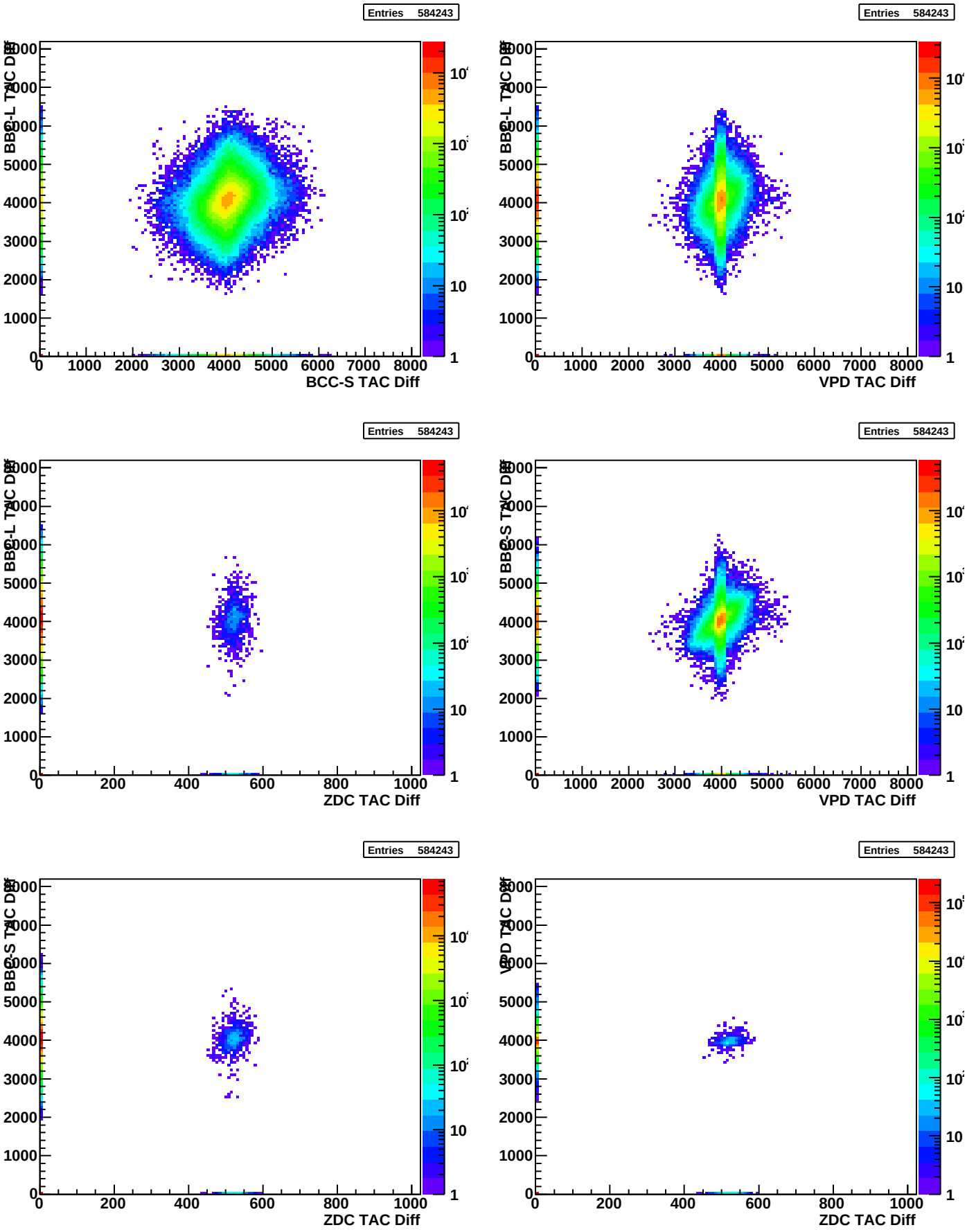

Entries 584243
VPD-West ADC Sum
ZDC-West ADC Sum Att

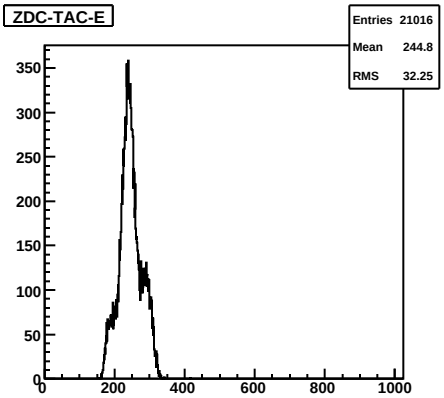

Entries 584243
BBC-L-East ADC Sum
BBC-L-West ADC Sum

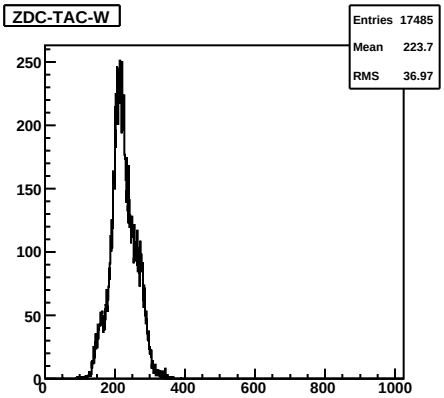

Entries 584243
BBC-S-East ADC Sum
BBC-S-West ADC Sum

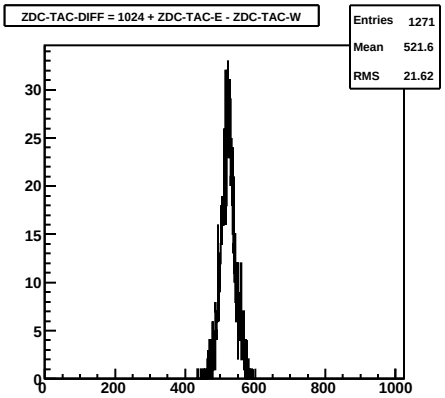

Entries 584243
VPD East ADC Sum
VPD West ADC Sum

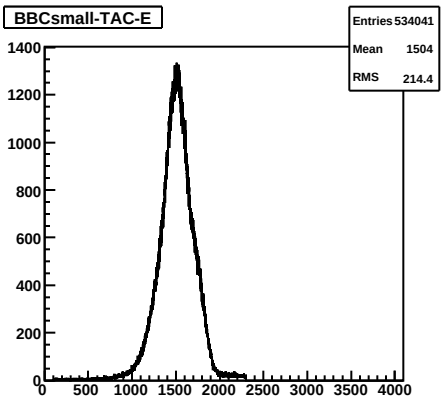

Entries 584243
ZDC East ADC Sum Att
ZDC West ADC Sum Att

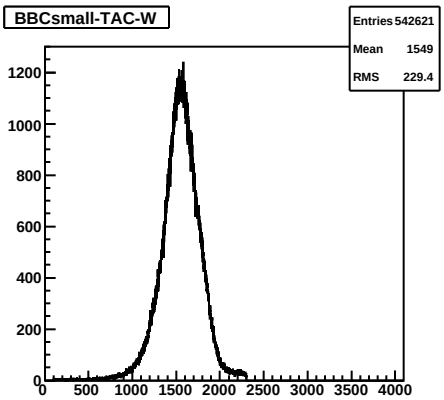

Entries 584243
BBC-L TAC Diff
BCC-S TAC Diff
Entries 584243
BBC-L TAC Diff
VPD TAC Diff
Entries 584243
BBC-L TAC Diff
ZDC TAC Diff
Entries 584243
BBC-S TAC Diff
VPD TAC Diff
Entries 584243
BBC-S TAC Diff
ZDC TAC Diff
Entries 584243
VPD TAC Diff
ZDC TAC Diff

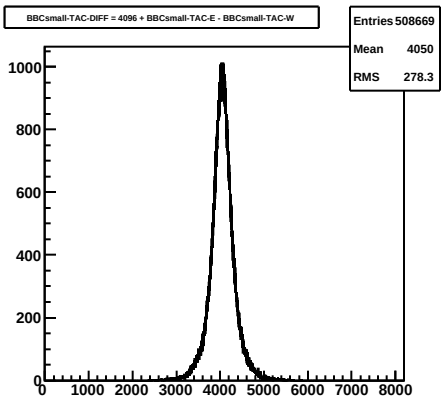

ZDC-TAC-E
Entries 21016
Mean 244.8
RMS 32.25

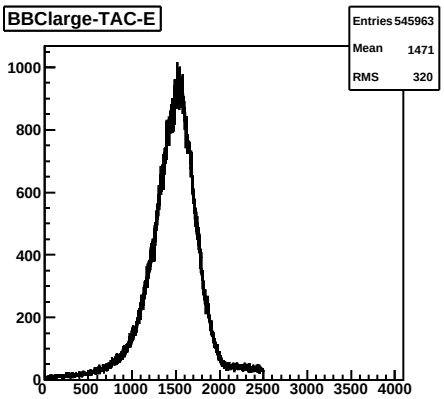

ZDC-TAC-W
Entries 17485
Mean 223.7
RMS 36.97

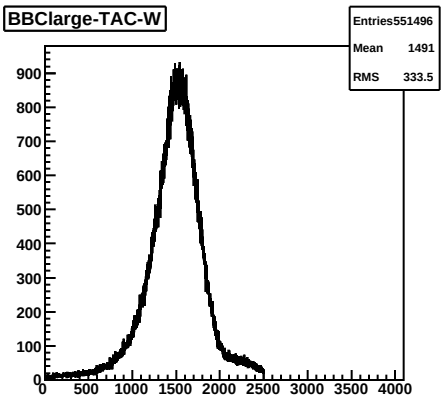

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1271
Mean 521.6
RMS 21.62

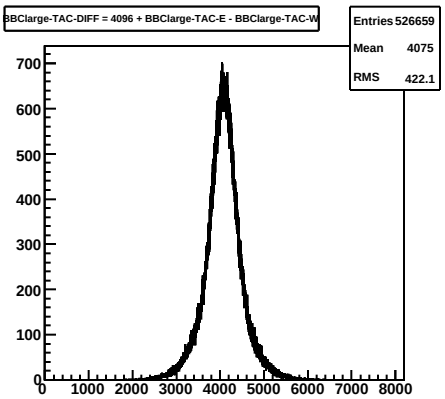

BBCsmall-TAC-E
Entries 534041
Mean 1504
RMS 214.4

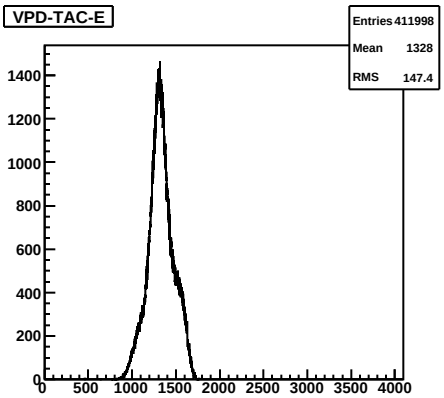

BBCsmall-TAC-W
Entries 542621
Mean 1549
RMS 229.4

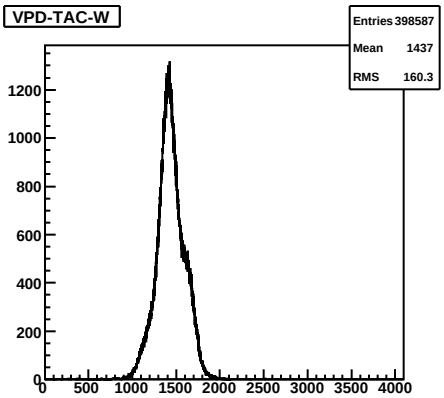

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 508669
Mean 4050
RMS 278.3

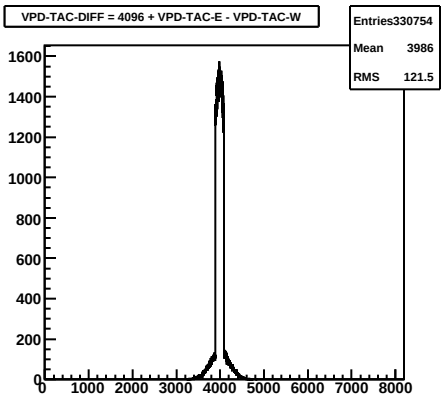

BBClarge-TAC-E
Entries 545963
Mean 1471
RMS 320

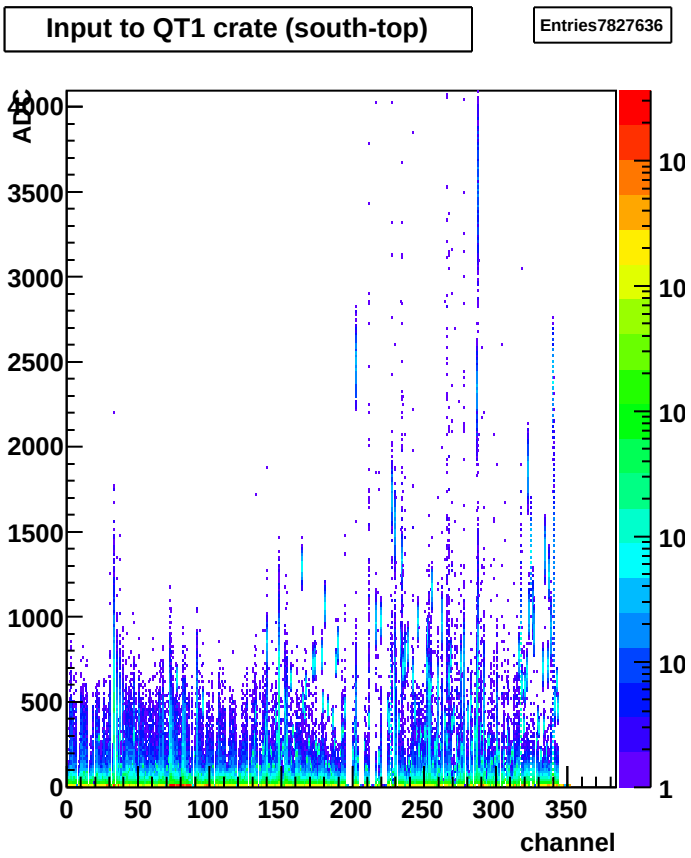

BBClarge-TAC-W
Entries 551496
Mean 1491
RMS 333.5

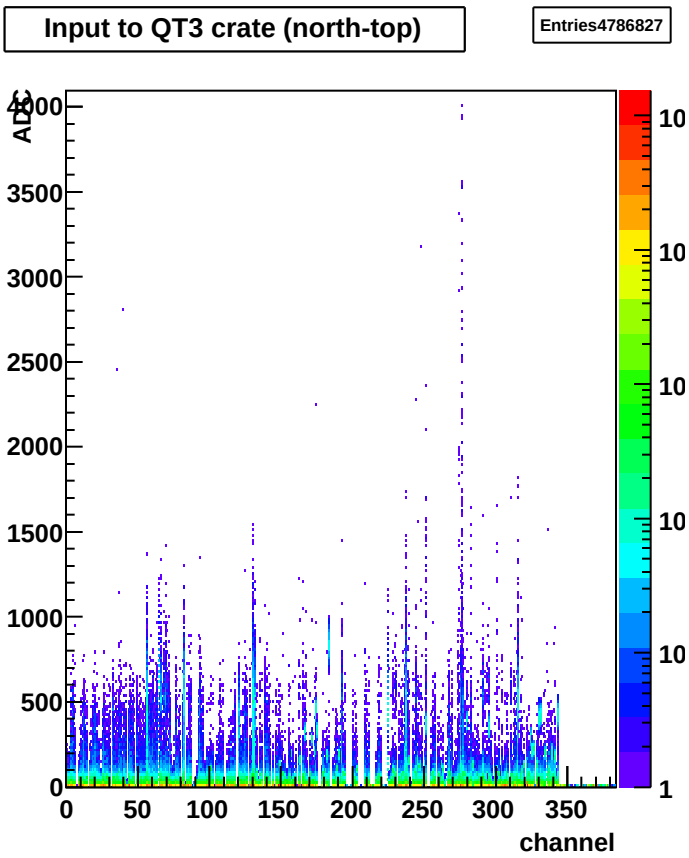

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 526659
Mean 4075
RMS 422.1

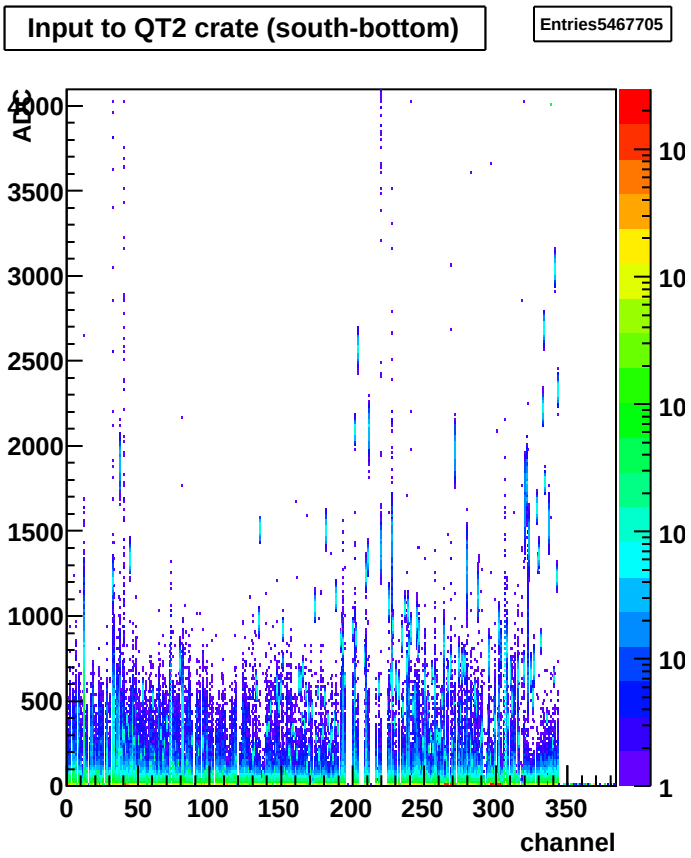

VPD-TAC-E
Entries 411998
Mean 1328
RMS 147.4

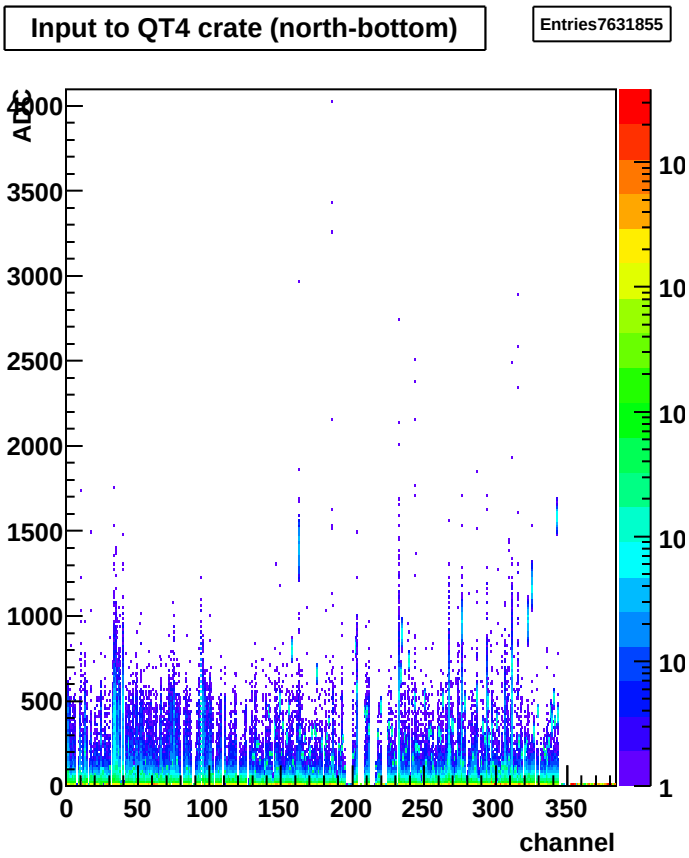

VPD-TAC-W
Entries 398587
Mean 1437
RMS 160.3

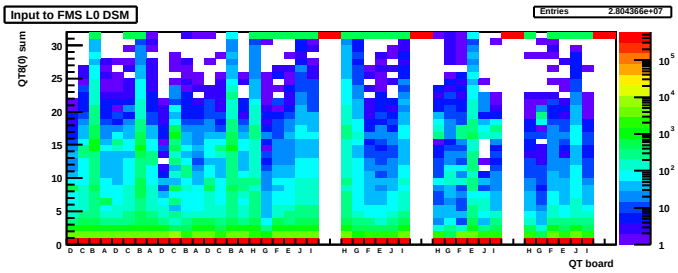

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 330754
Mean 3986
RMS 121.5

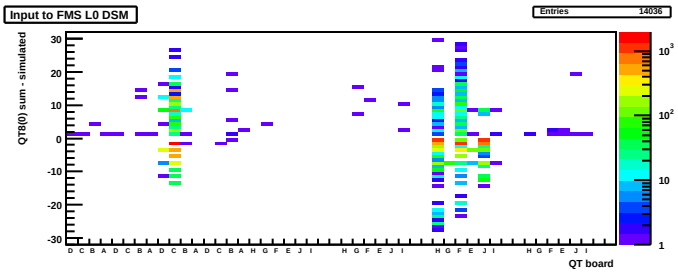

Input to QT1 crate (south-top)
Entries7827636
ADC
channel

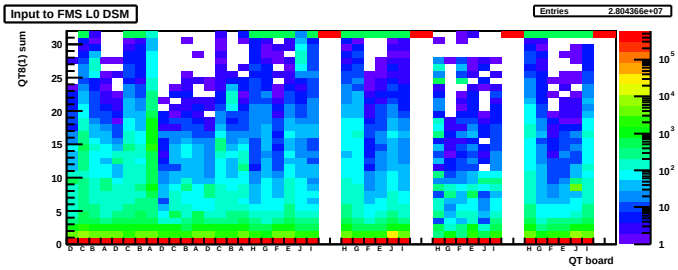

Input to QT3 crate (north-top)
Entries4786827
ADC
channel

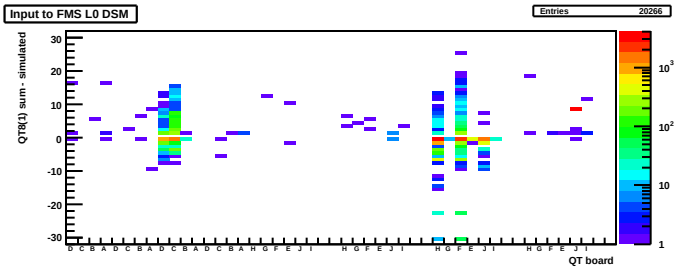

Input to QT2 crate (south-bottom)
Entries5467705
ADC
channel

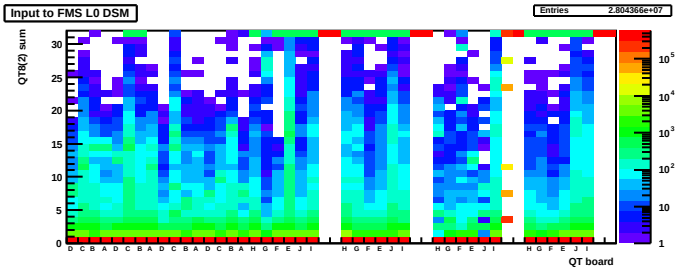

Input to QT4 crate (north-bottom)
Entries7631855
ADC
channel

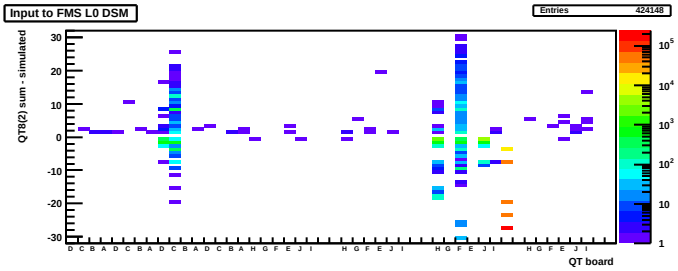

Input to FMS L0 DSM
Entries 2.804366e+07
QT8(0) sum
QT board

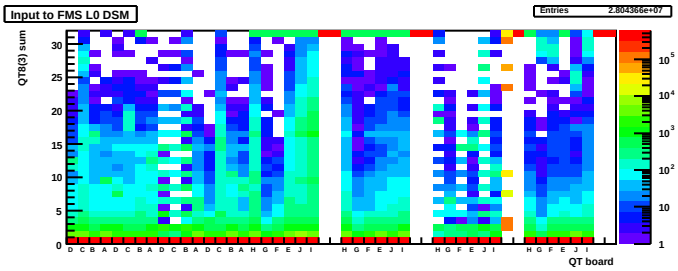

Input to FMS L0 DSM
Entries 14036
QT8(0) sum - simulated
QT board

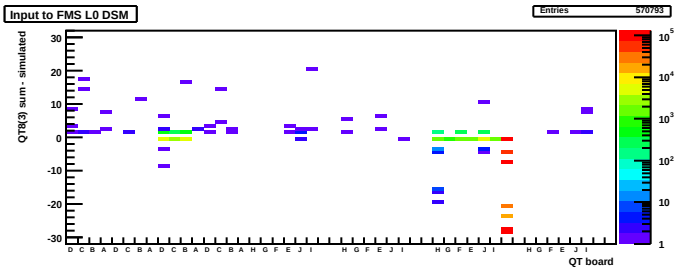

Input to FMS L0 DSM
Entries 2.804366e+07
QT8(1) sum
QT board

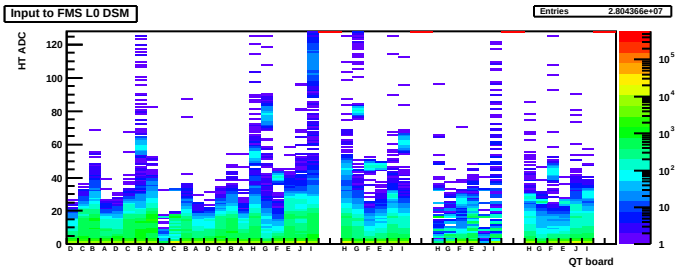

Input to FMS L0 DSM
Entries 20266
QT8(1) sum - simulated
QT board

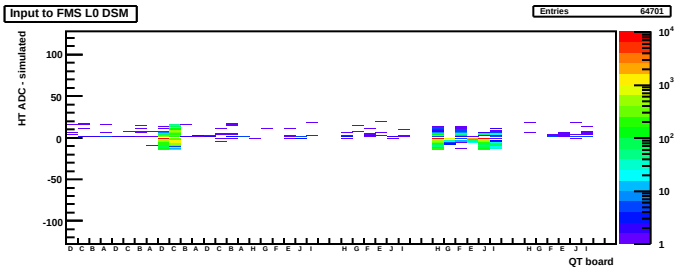

Input to FMS L0 DSM
Entries 2.804366e+07
QT8(2) sum
QT board

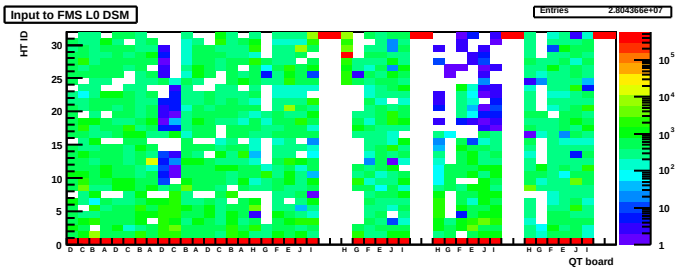

Input to FMS L0 DSM
Entries 424148
QT8(2) sum - simulated
QT board

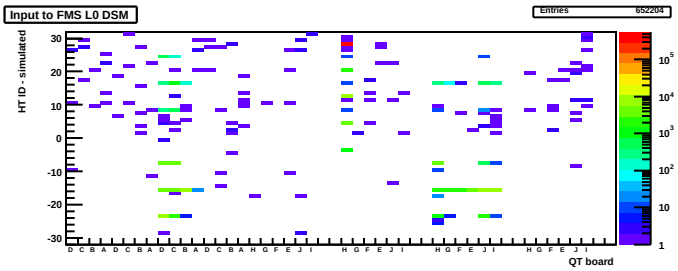

Input to FMS L0 DSM
Entries 2.804366e+07
QT8(3) sum
QT board

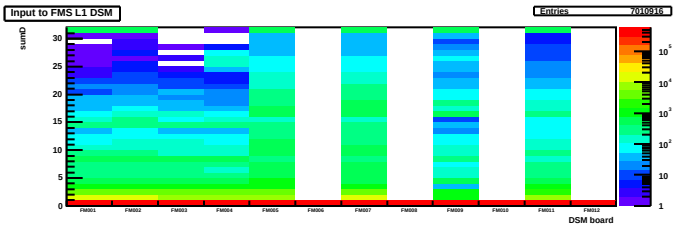

Input to FMS L0 DSM
Entries 570793
QT8(3) sum - simulated
QT board

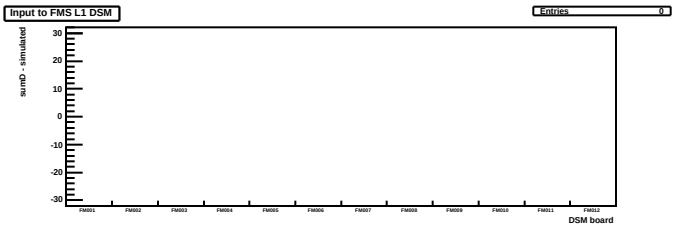

Input to FMS L0 DSM
Entries 2.804366e+07
HT ADC
QT board

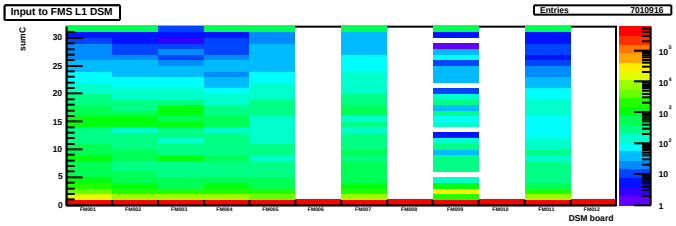

Input to FMS L0 DSM
Entries 64701
HT ADC - simulated
QT board

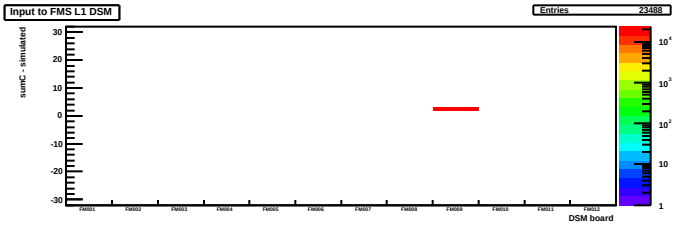

Input to FMS L0 DSM
Entries 2.804366e+07
HT ID
QT board

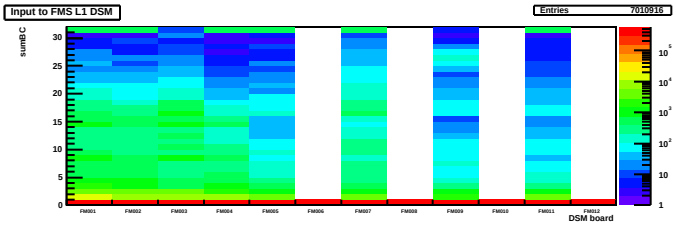

Input to FMS L0 DSM
Entries 652204
HT ID - simulated
QT board

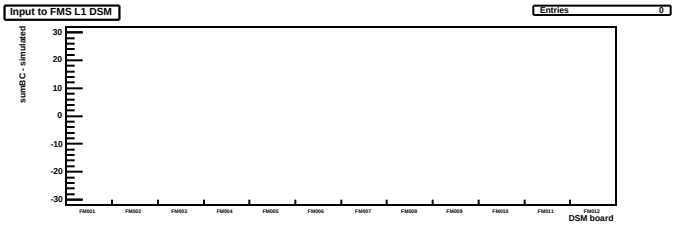

Input to FMS L1 DSM
Entries 7010916
sumD
DSM board

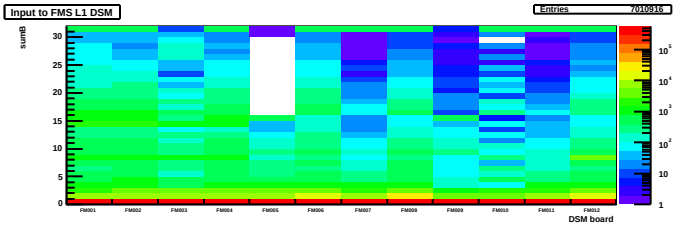

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

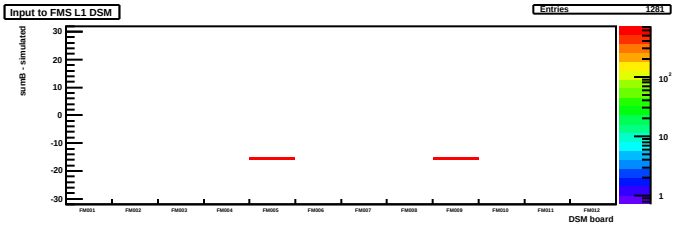

Input to FMS L1 DSM
Entries 7010916
sumC
DSM board

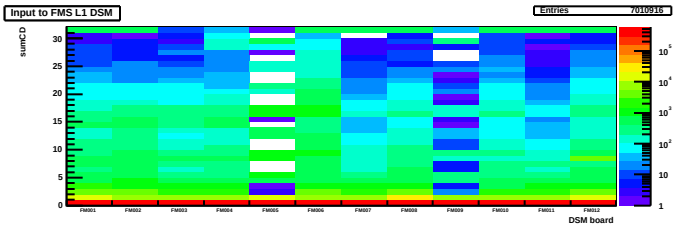

Input to FMS L1 DSM
Entries 23488
sumC - simulated
DSM board

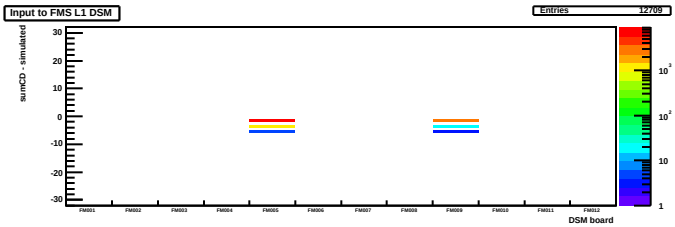

Input to FMS L1 DSM
Entries 7010916
sumBC
DSM board

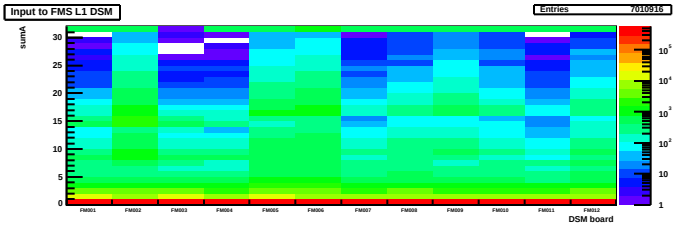

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

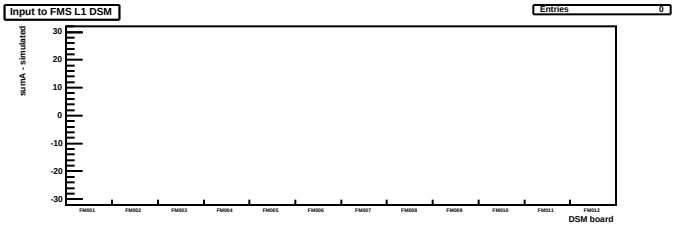

Input to FMS L1 DSM
Entries 7010916
sumB
DSM board

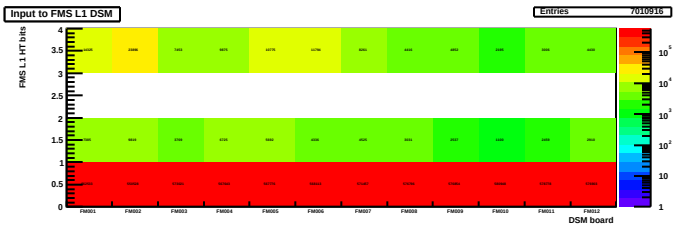

Input to FMS L1 DSM
Entries 1281
sumB - simulated
DSM board

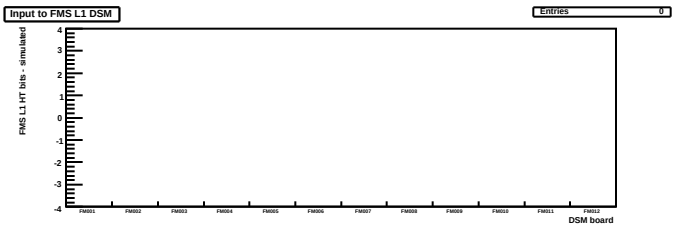

Input to FMS L1 DSM
Entries 7010916
sumCD
DSM board

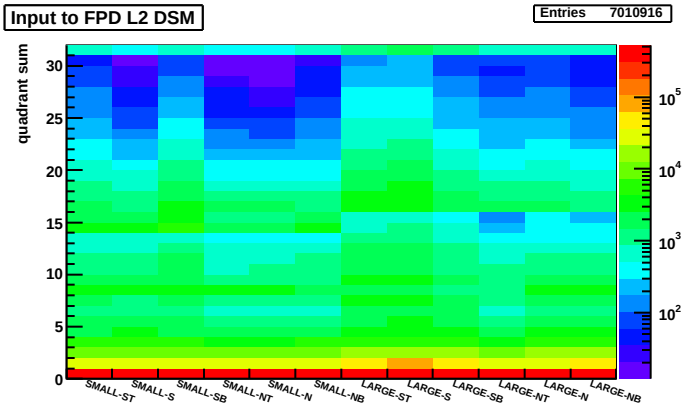

Input to FMS L1 DSM
Entries 12709
sumCD - simulated
DSM board

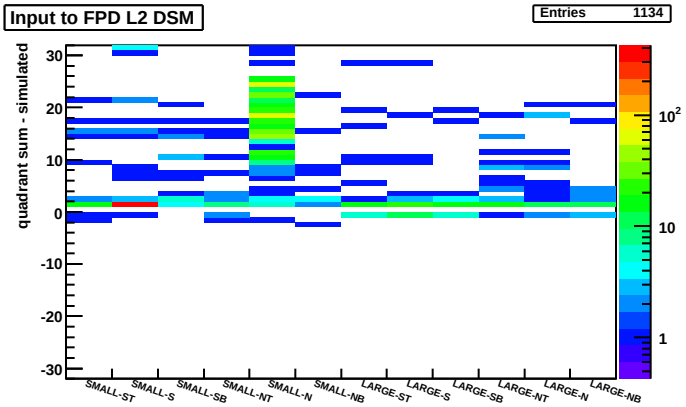

Input to FMS L1 DSM
Entries 7010916
sumA
DSM board

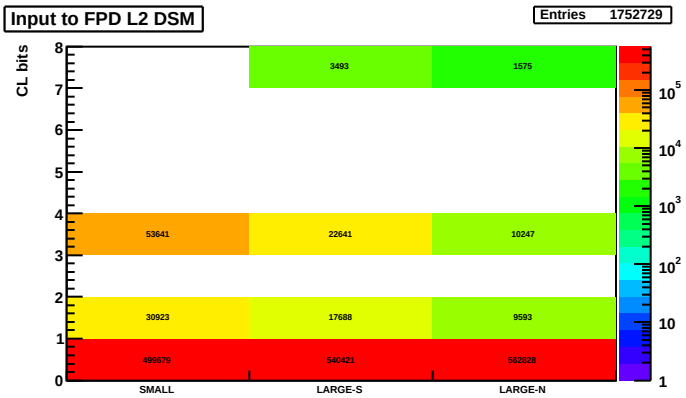

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

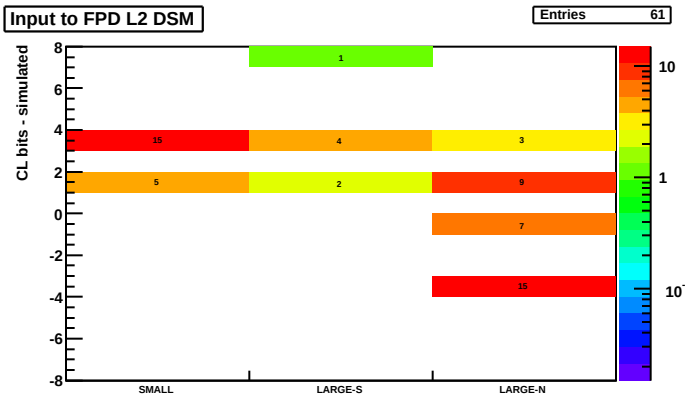

Input to FMS L1 DSM
Entries 7010916
FMS L1 HT bits
DSM board

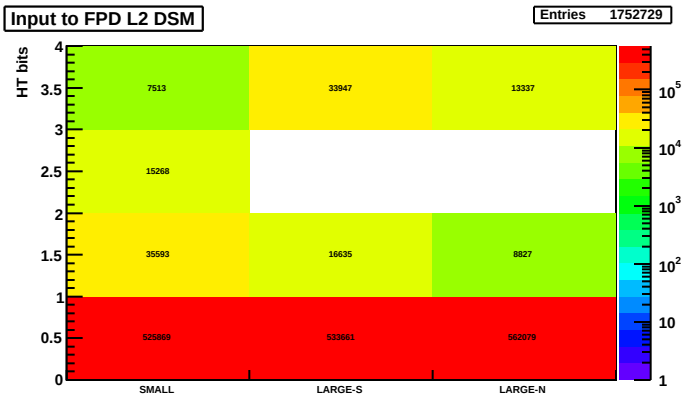

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

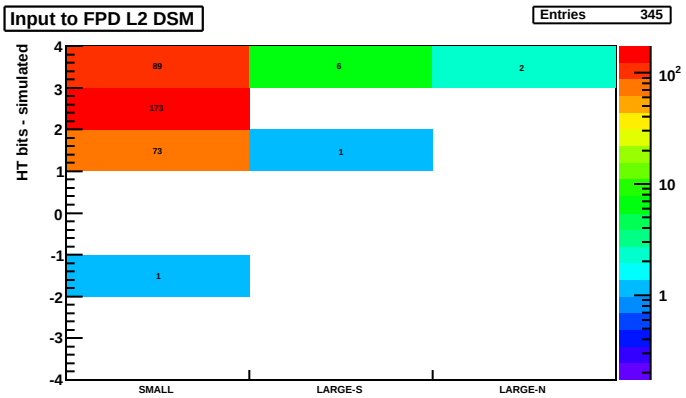

Input to FPD L2 DSM
Entries 7010916
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

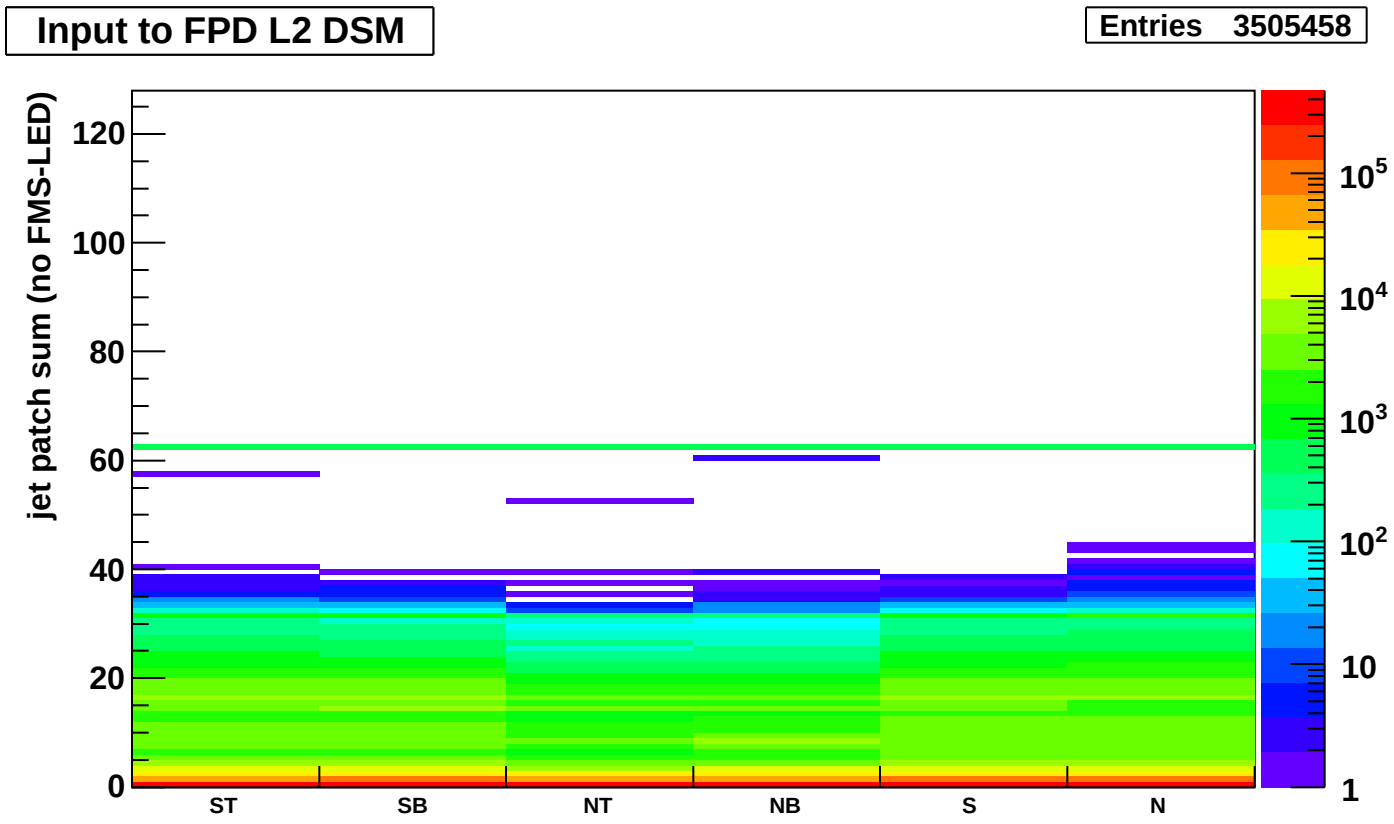

Input to FPD L2 DSM
Entries 1134
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

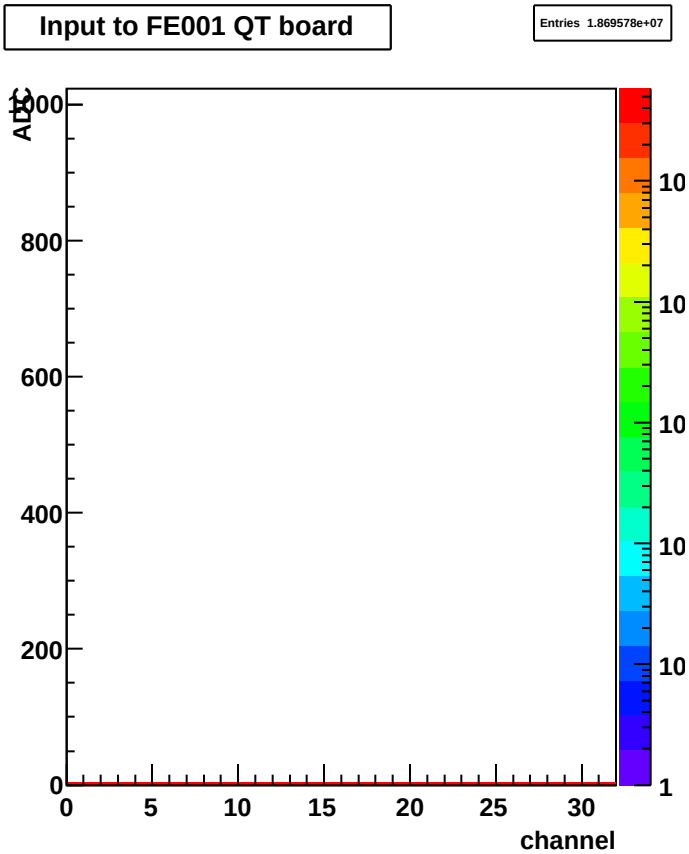

Input to FPD L2 DSM
Entries 1752729
CL bits
3493
1575
53641
22641
10247
30923
17688
9593
499679
540421
562828
SMALL
LARGE-S
LARGE-N

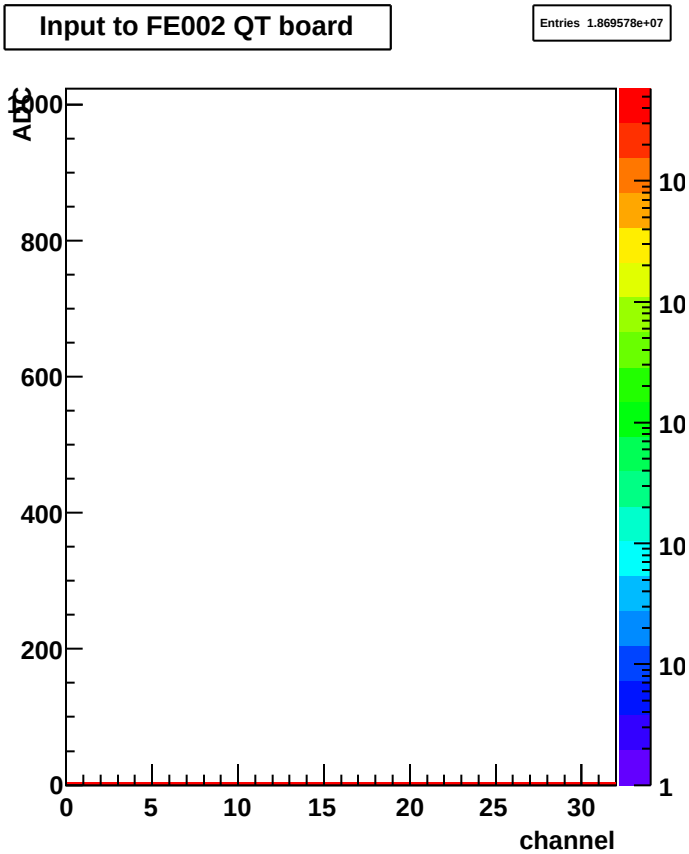

Input to FPD L2 DSM
Entries 61
CL bits - simulated
1
15
4
3
5
2
9
7
15
SMALL
LARGE-S
LARGE-N

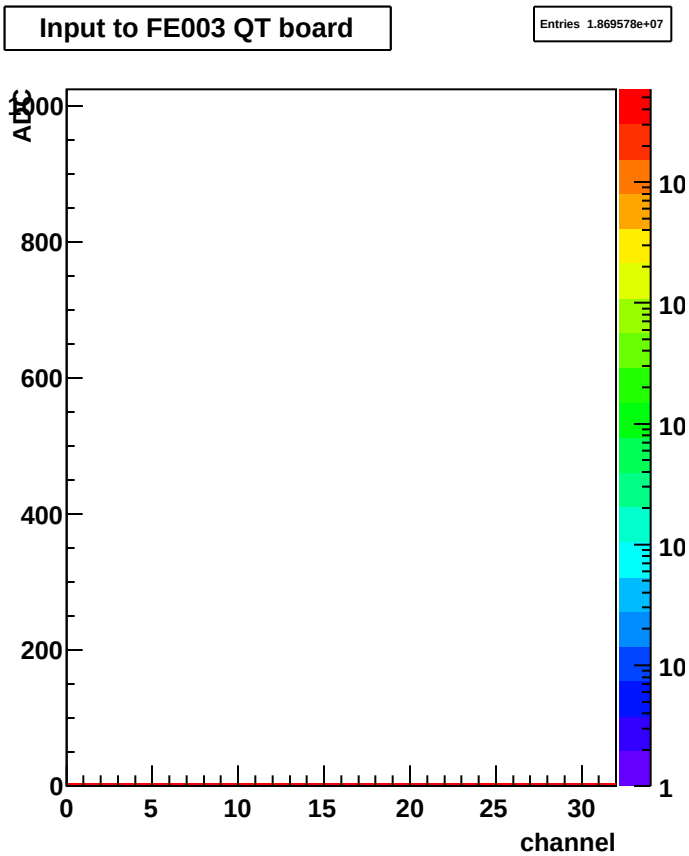

Input to FPD L2 DSM
Entries 1752729
HT bits
7513
33947
13337
15268
35593
16635
8827
525869
533661
562079
SMALL
LARGE-S
LARGE-N

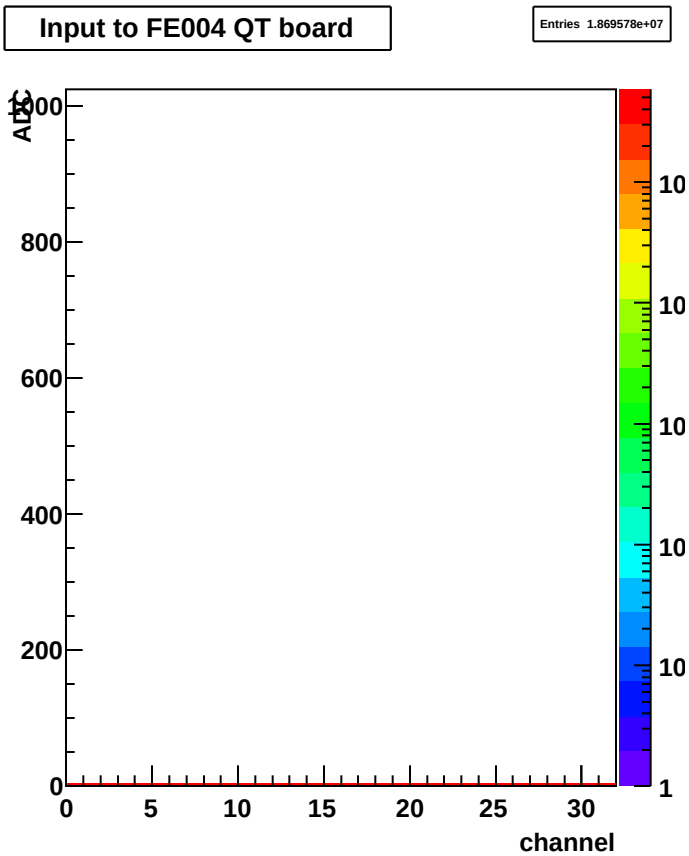

Input to FPD L2 DSM
Entries 345
HT bits - simulated
89
6
2
173
73
1
1
SMALL
LARGE-S
LARGE-N

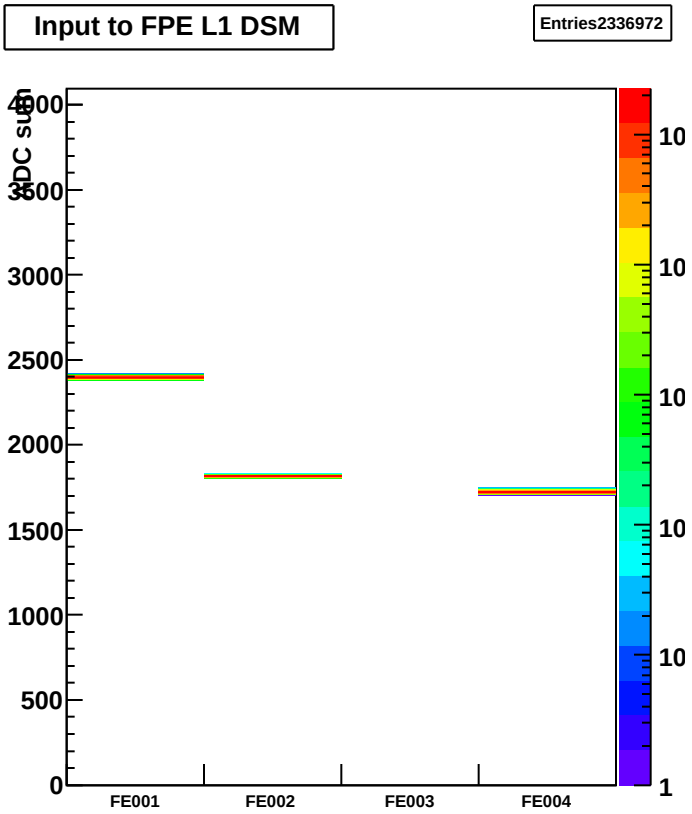

Input to FPD L2 DSM
Entries 3505458
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

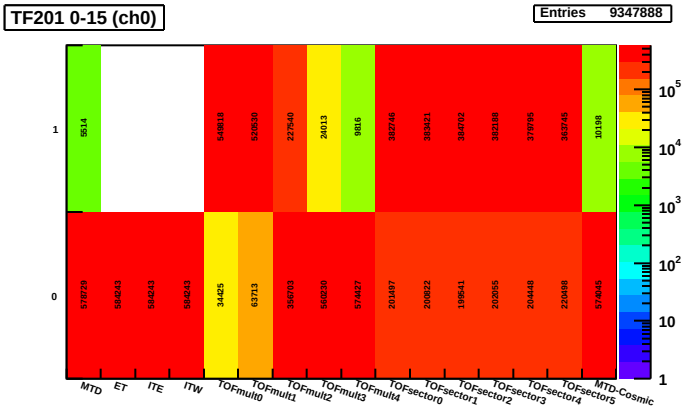

Input to FE001 QT board
Entries 1.869578e+07
ADC
channel

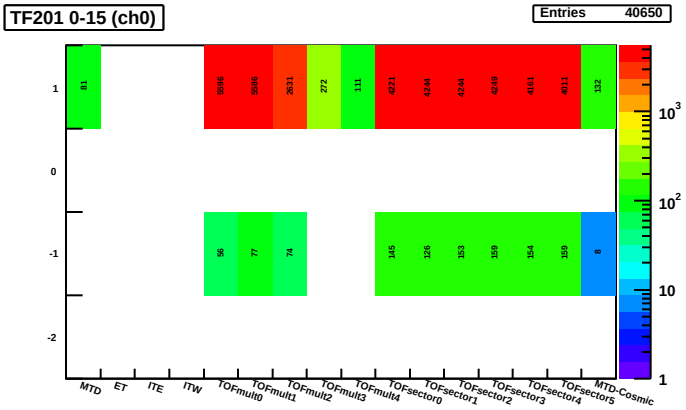

Input to FE002 QT board
Entries 1.869578e+07
ADC
channel

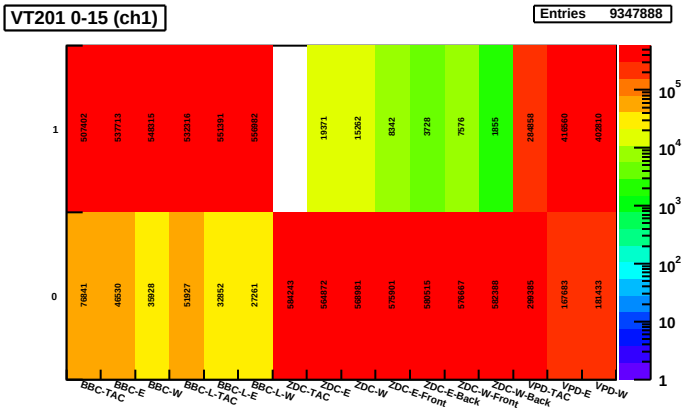

Input to FE003 QT board
Entries 1.869578e+07
ADC
channel

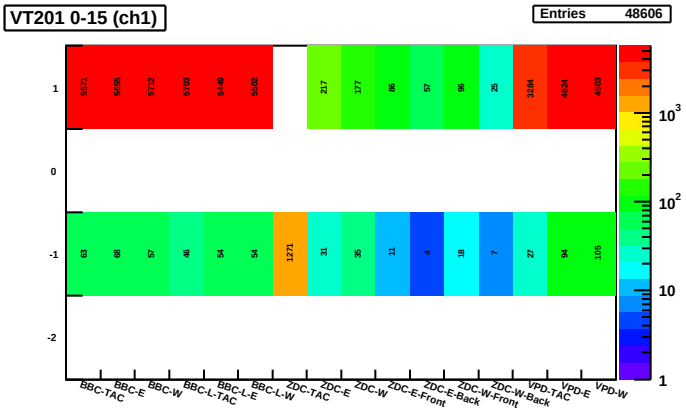

Input to FE004 QT board
Entries 1.869578e+07
ADC
channel


Input to FPE L1 DSM
Entries2336972
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 9347888
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 40650
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 9347888
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 48606
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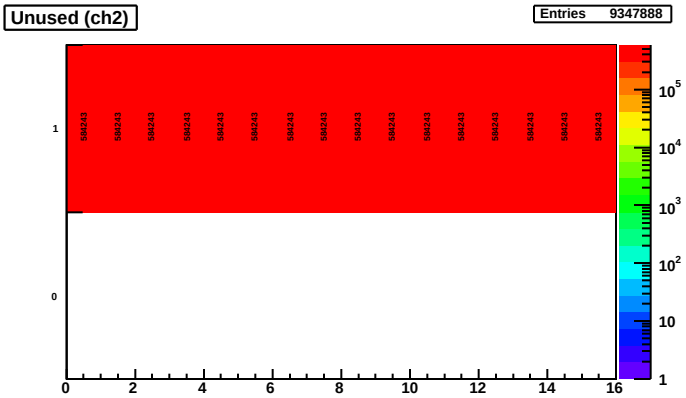
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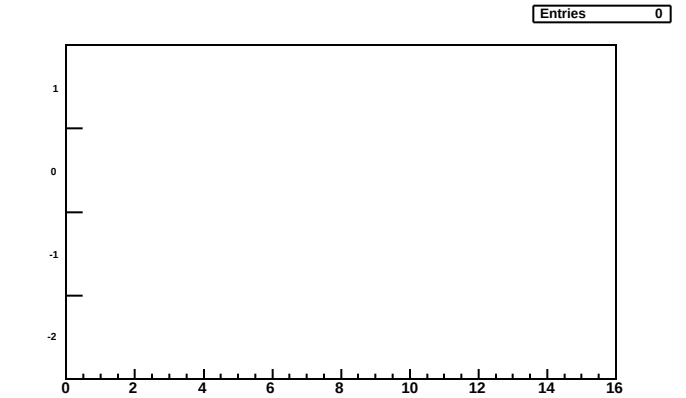
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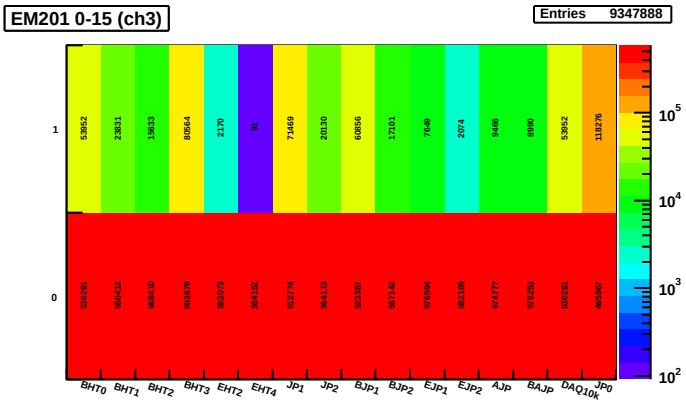
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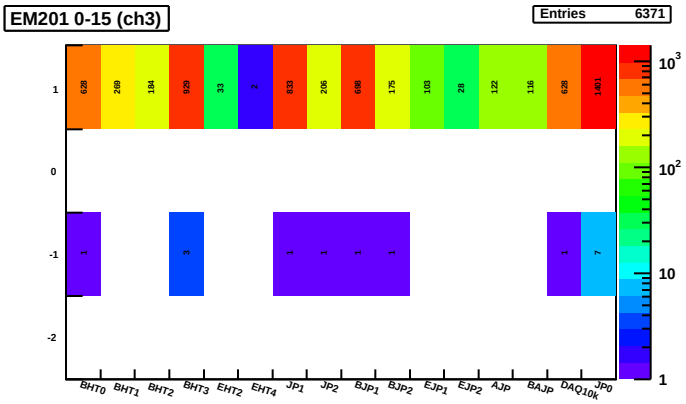
EM201 0-15 (ch3)
Entries 6371
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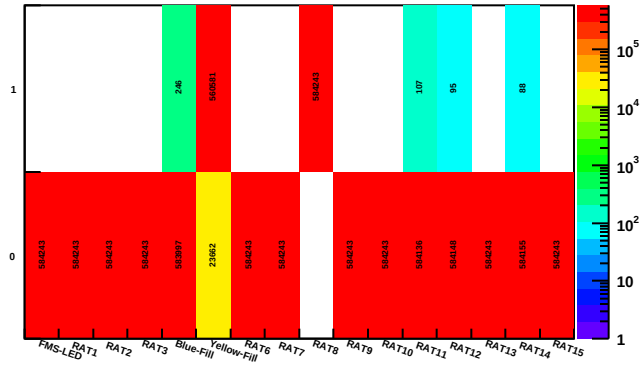
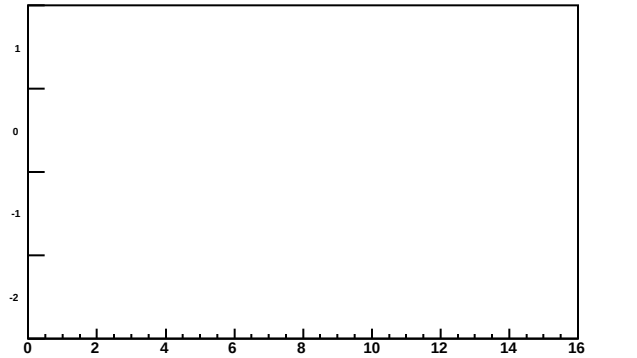
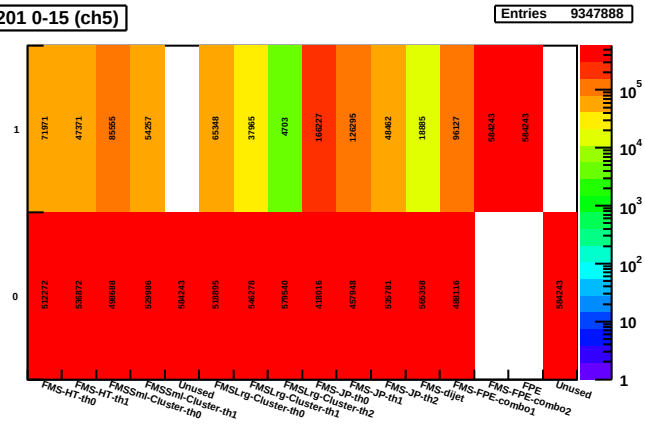
RAT board (ch4)

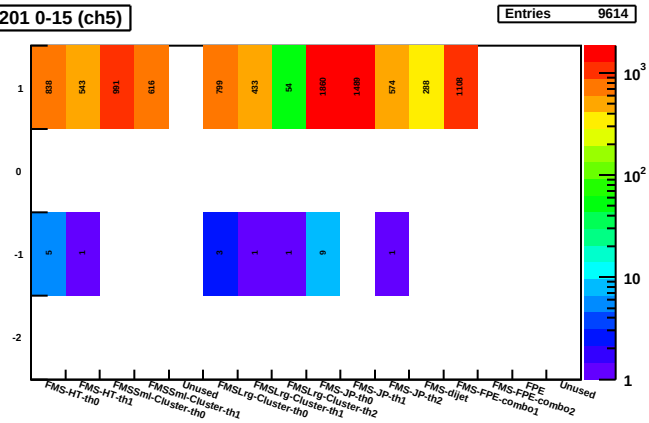




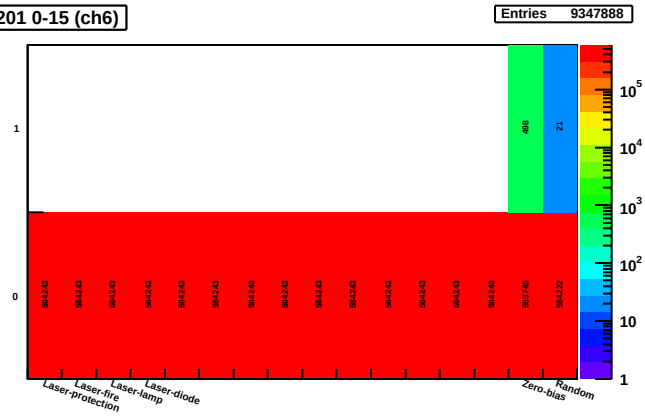
FP201 0-15 (ch5)

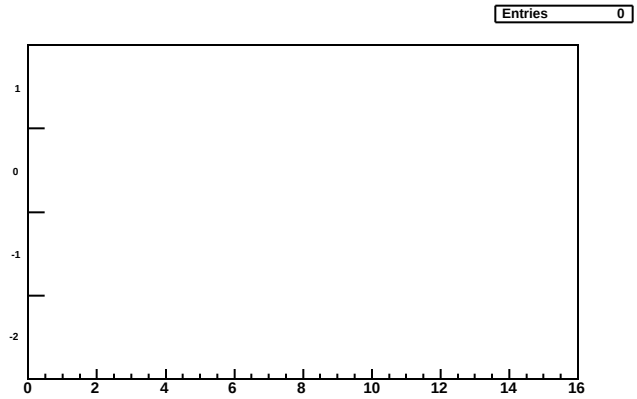
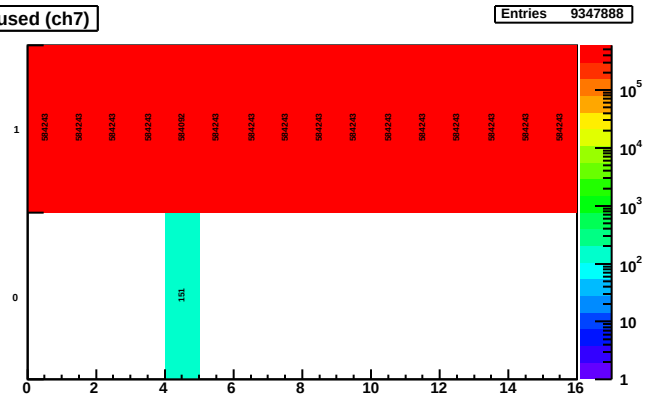
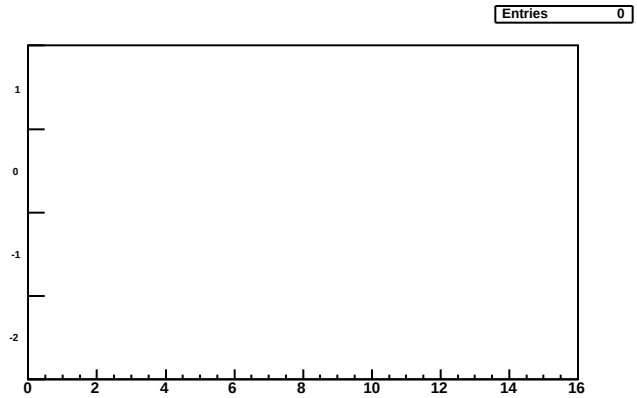


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)