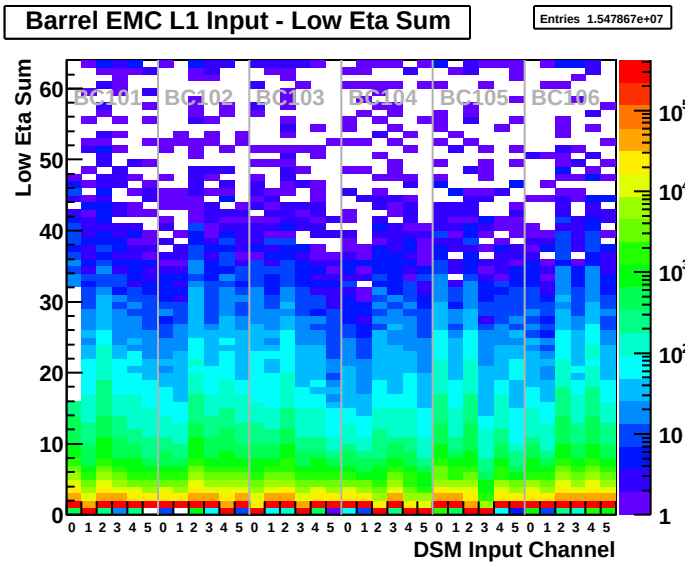
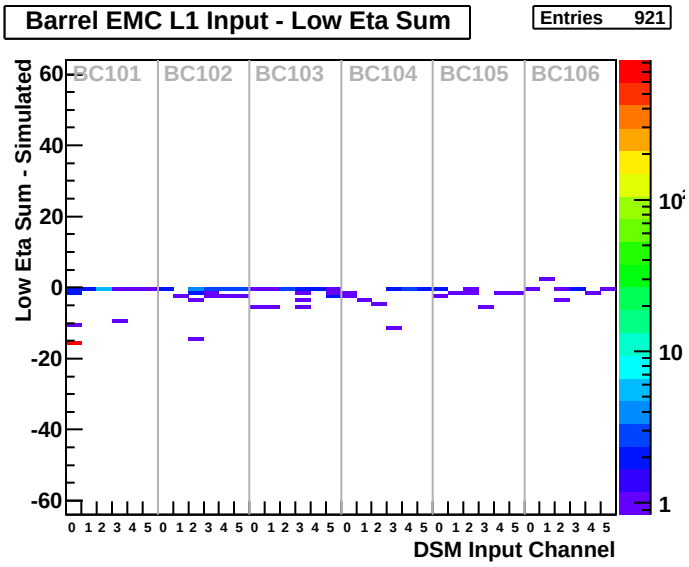
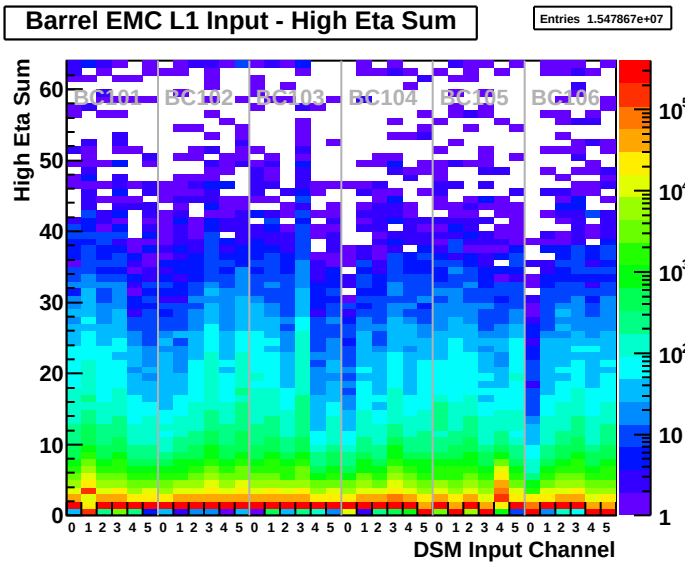
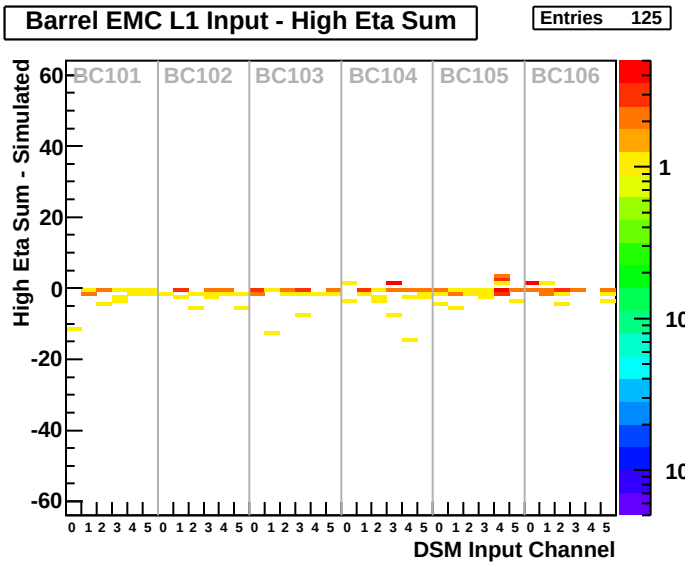
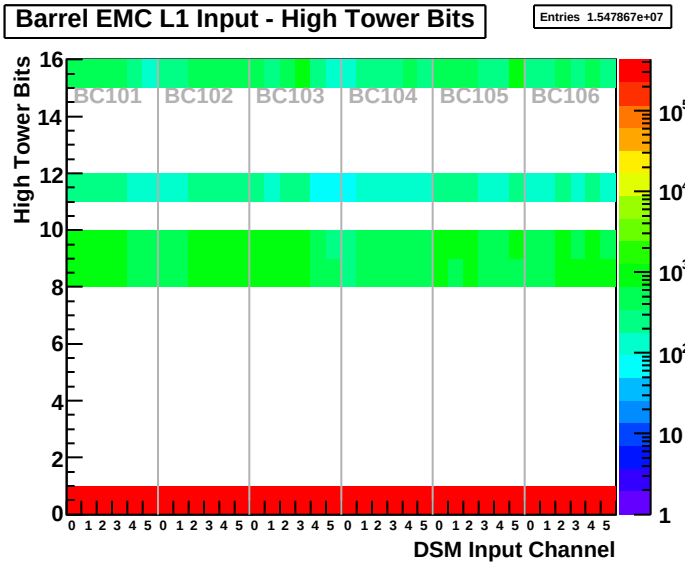
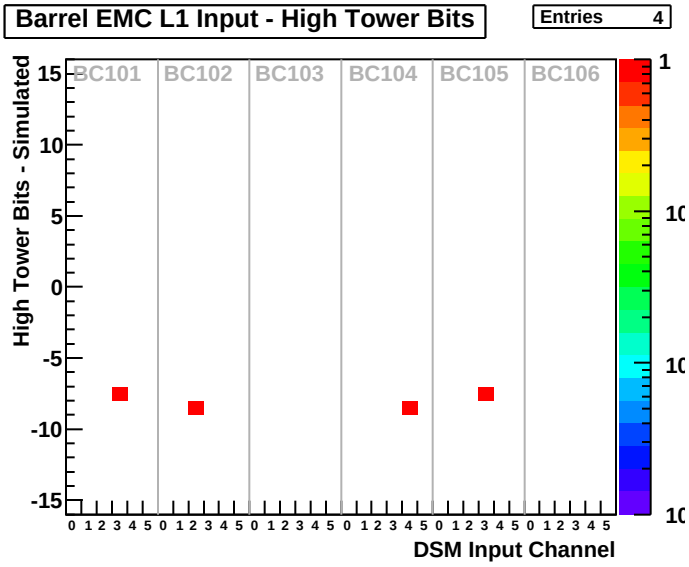

Barrel EMC L1 Input - Low Eta Sum
Entries 1.547867e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

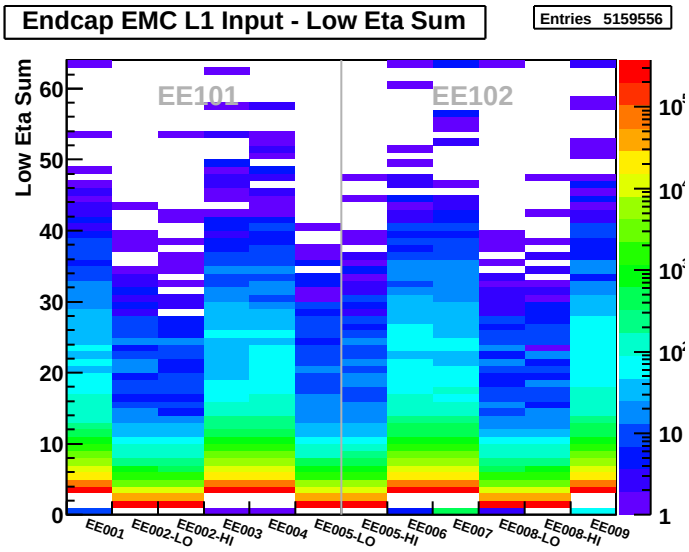

Barrel EMC L1 Input - Low Eta Sum
Entries 921
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

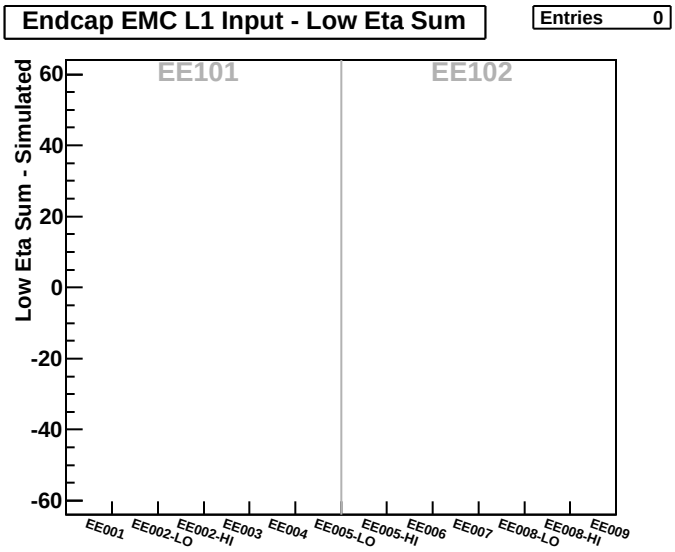

Barrel EMC L1 Input - High Eta Sum
Entries 1.547867e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

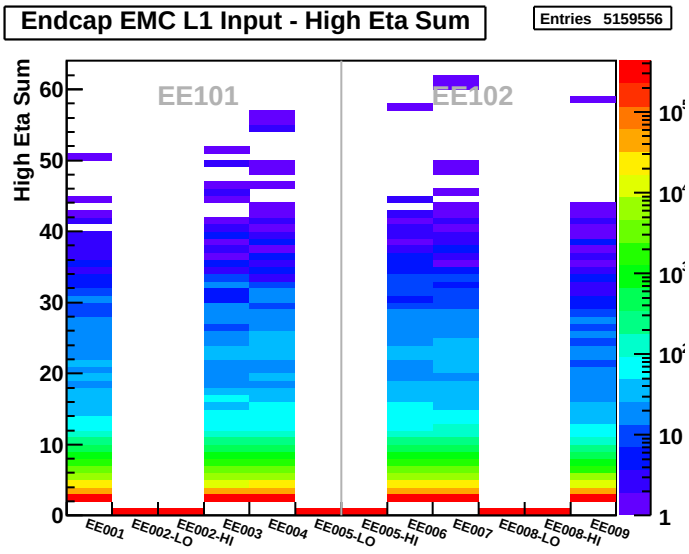

Barrel EMC L1 Input - High Eta Sum
Entries 125
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

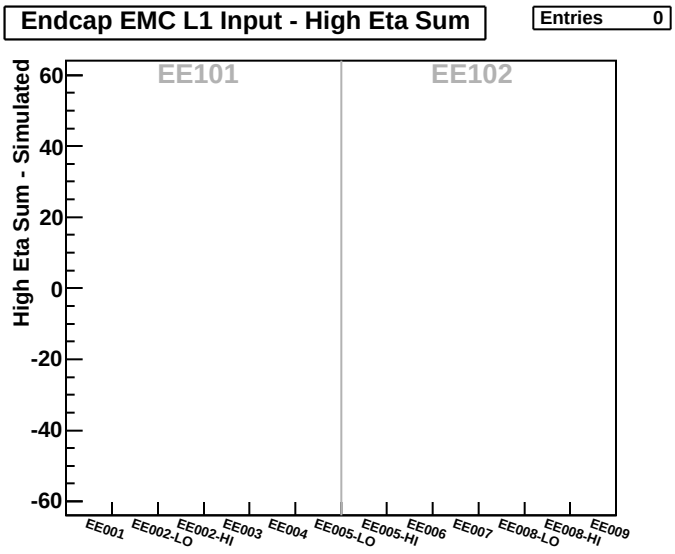

Barrel EMC L1 Input - High Tower Bits
Entries 1.547867e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

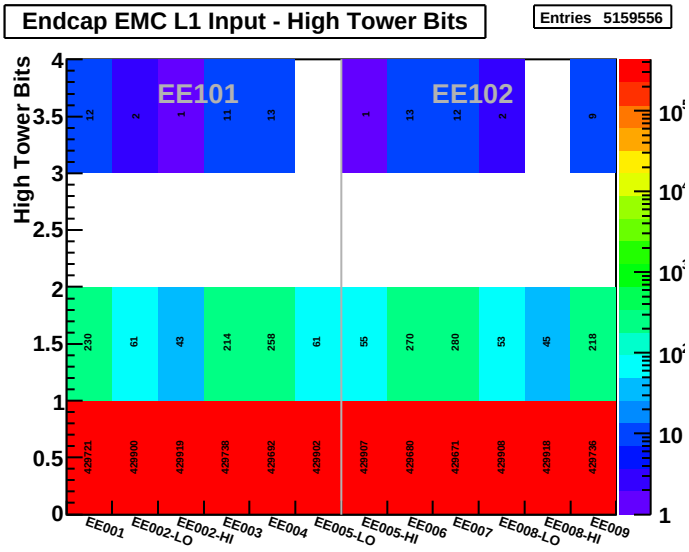

Barrel EMC L1 Input - High Tower Bits
Entries 4
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

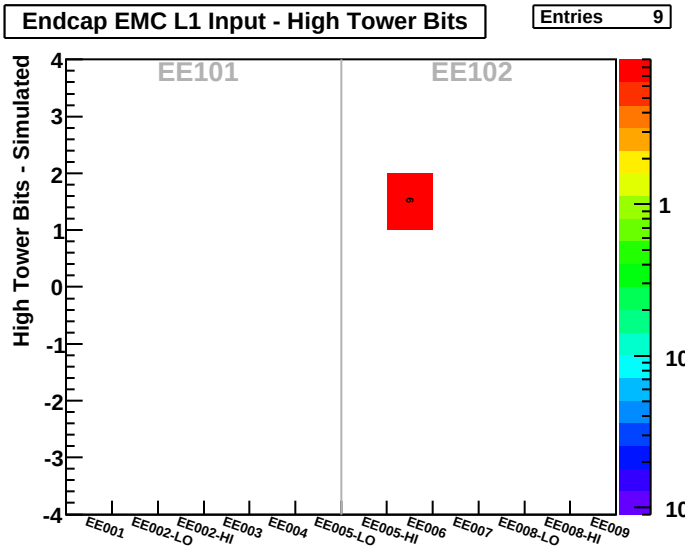

Endcap EMC L1 Input - Low Eta Sum
Entries 5159556
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

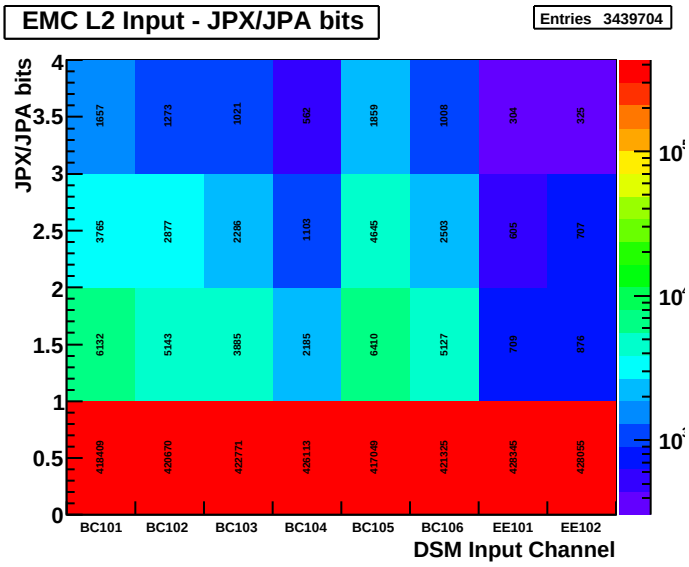

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

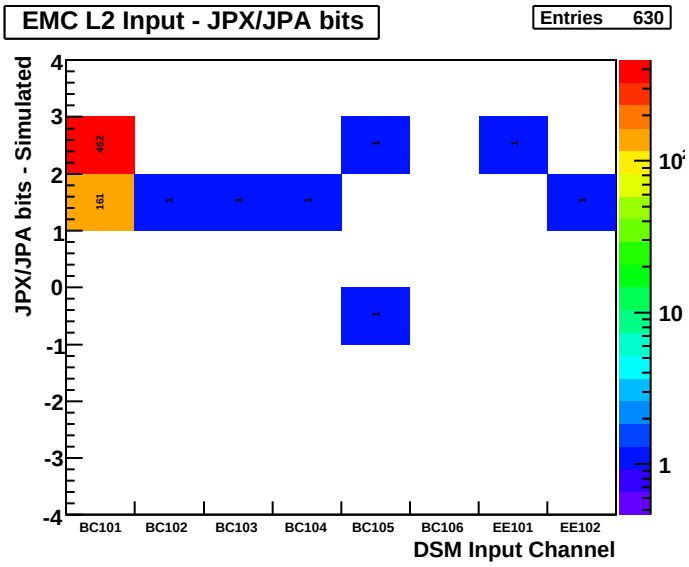

Endcap EMC L1 Input - High Eta Sum
Entries 5159556
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

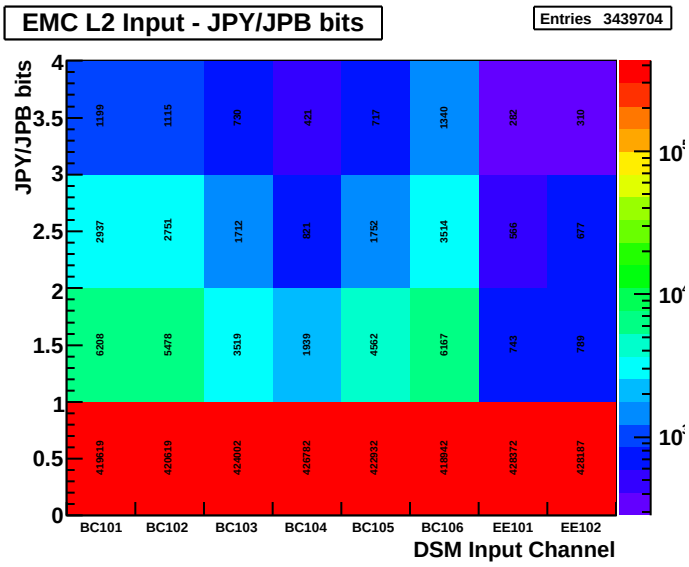

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

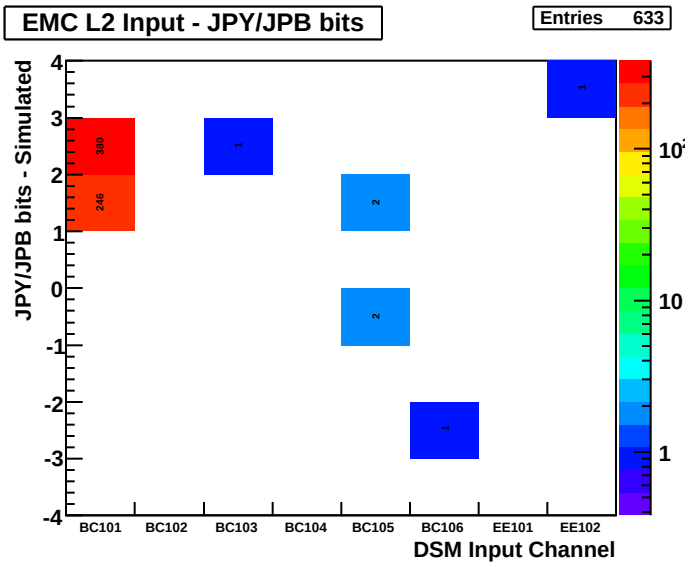

Endcap EMC L1 Input - High Tower Bits
Entries 5159556
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

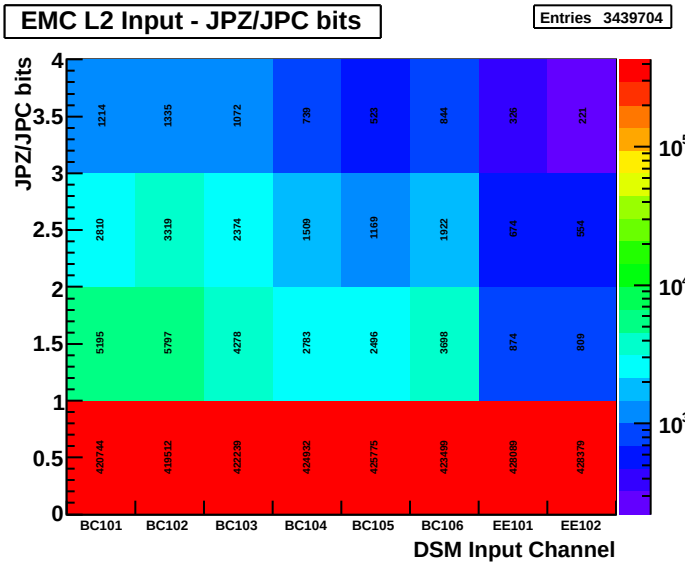

Endcap EMC L1 Input - High Tower Bits
Entries 9
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

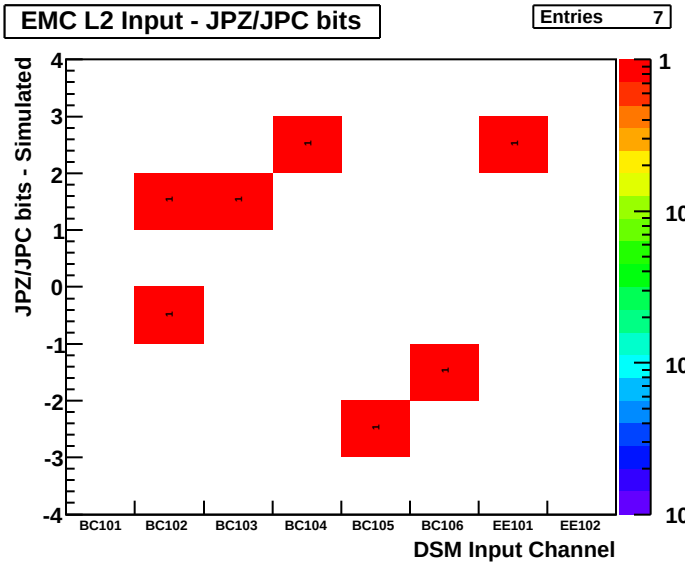

EMC L2 Input - JPX/JPA bits
Entries 3439704
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1657 1273 1021 562 1859 1008 304 325
3765 2877 2286 1103 4645 2503 605 707
6132 5143 3885 2185 6410 5127 709 876
418409 420670 422771 426113 417049 421325 423345 428055

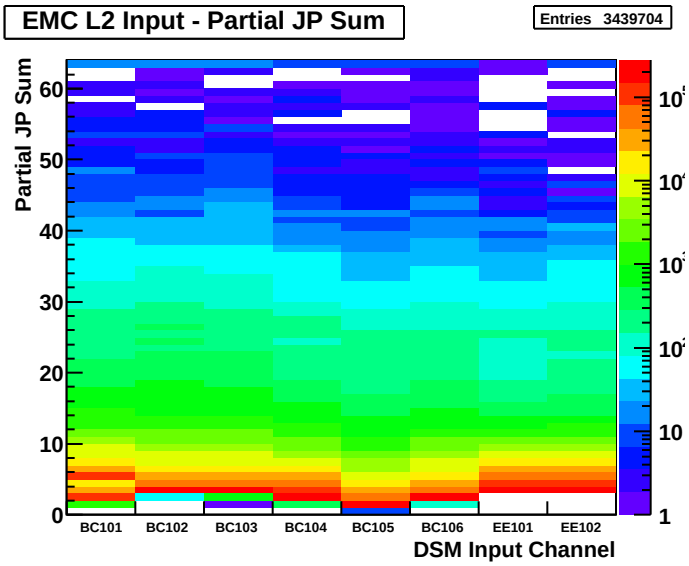

EMC L2 Input - JPX/JPA bits
Entries 630
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
462
161
1 1 1 1 1 1 1

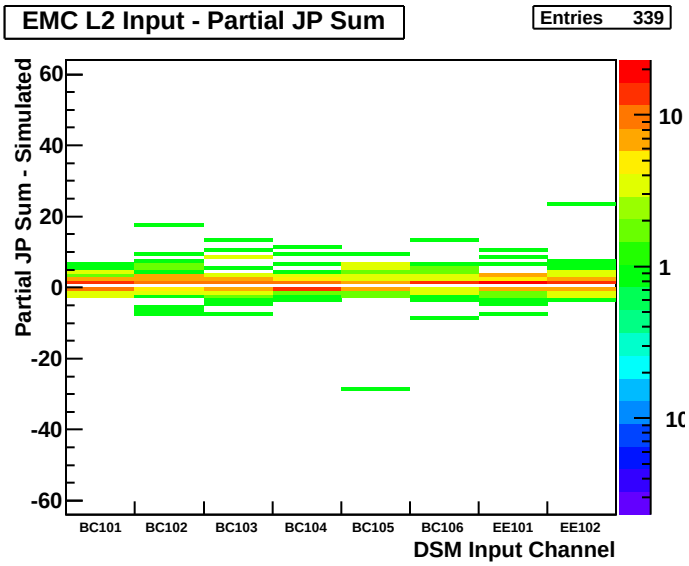

EMC L2 Input - JPY/JPB bits
Entries 3439704
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1199 1115 730 421 717 1340 282 310
2937 2751 1712 821 1752 3514 566 677
6208 5478 3519 1939 4562 6167 743 789
418619 420619 424002 426782 422932 418942 428372 428187

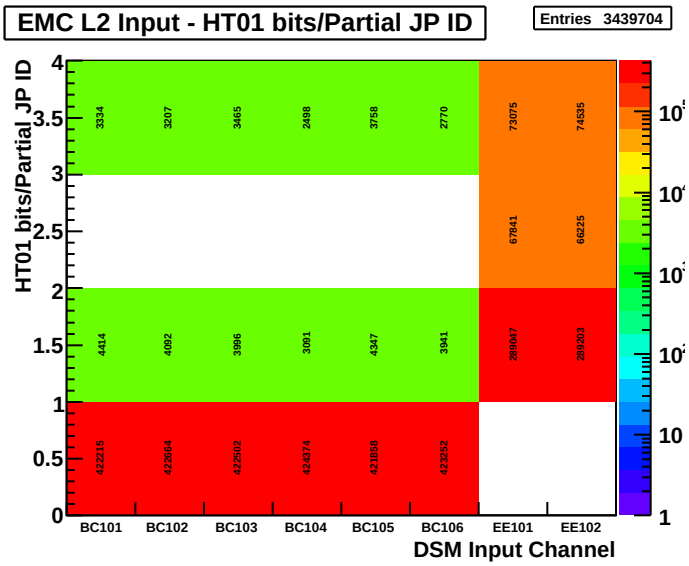

EMC L2 Input - JPY/JPB bits
Entries 633
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
380
246
1 1 2 2 1 1

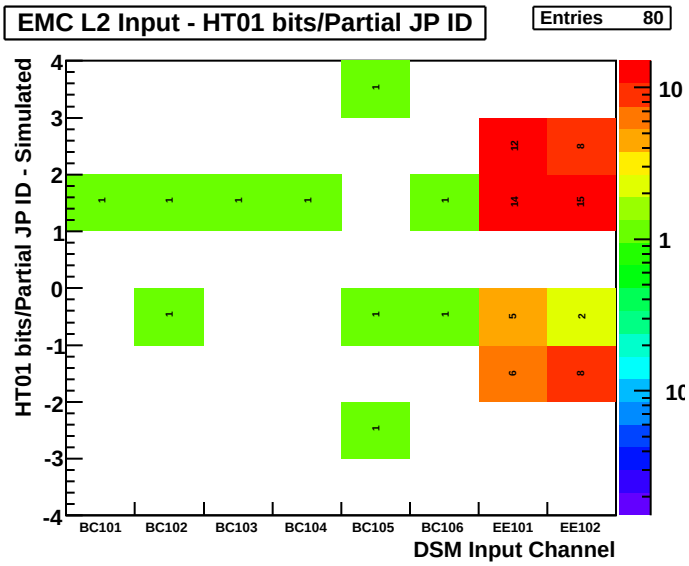

EMC L2 Input - JPZ/JPC bits
Entries 3439704
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1214 1335 1072 739 523 844 326 221
2810 3319 2374 1509 1169 1922 674 554
5195 5797 4278 2783 2466 3698 874 809
420744 419512 422239 424932 425775 423499 428089 428379

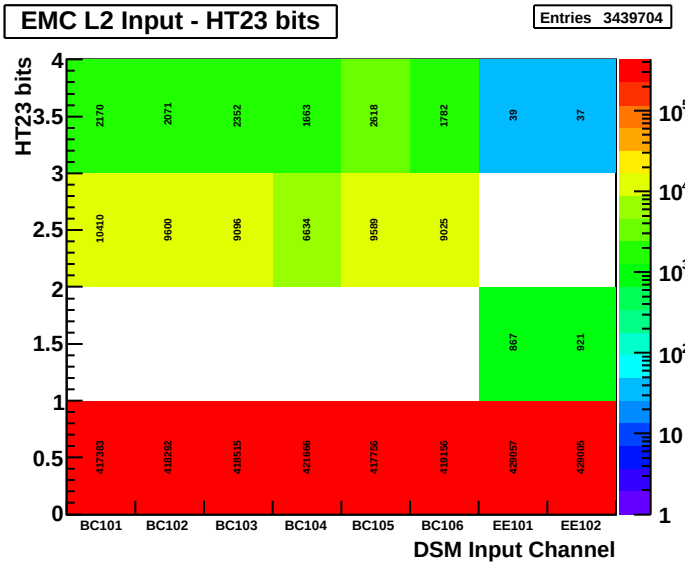

EMC L2 Input - JPZ/JPC bits
Entries 7
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1 1 1 1

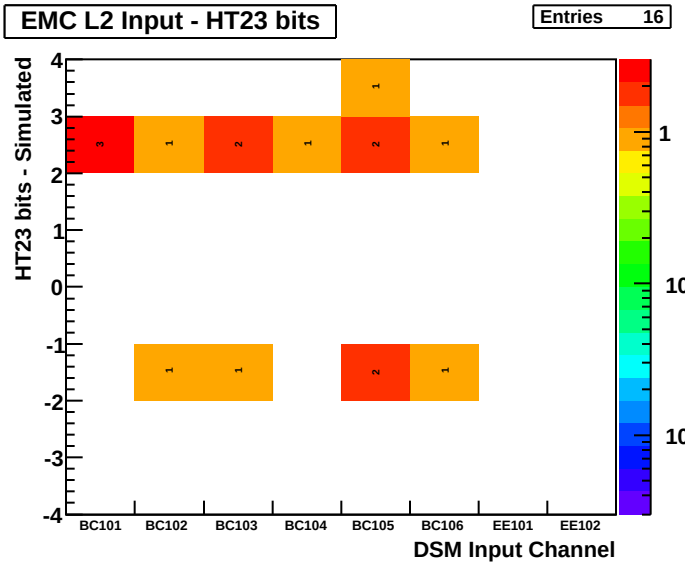

EMC L2 Input - Partial JP Sum
Entries 3439704
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

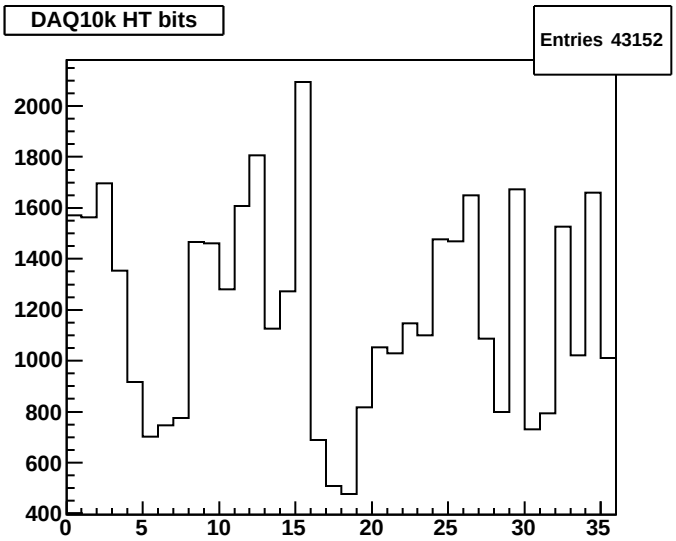

EMC L2 Input - Partial JP Sum
Entries 339
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

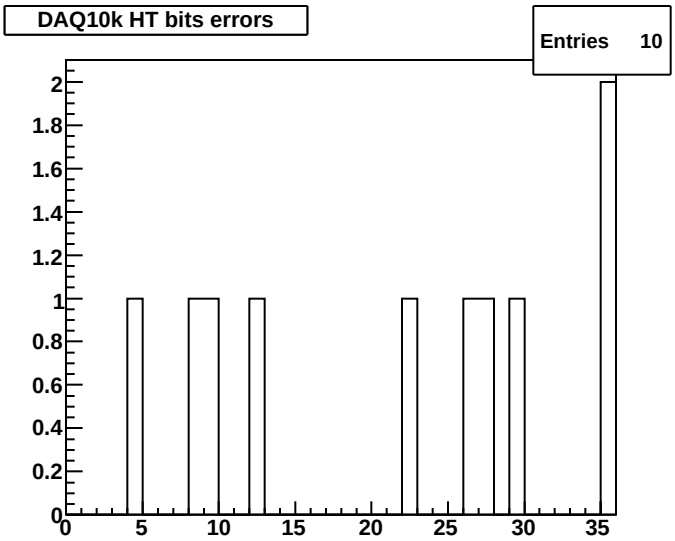

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3439704
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

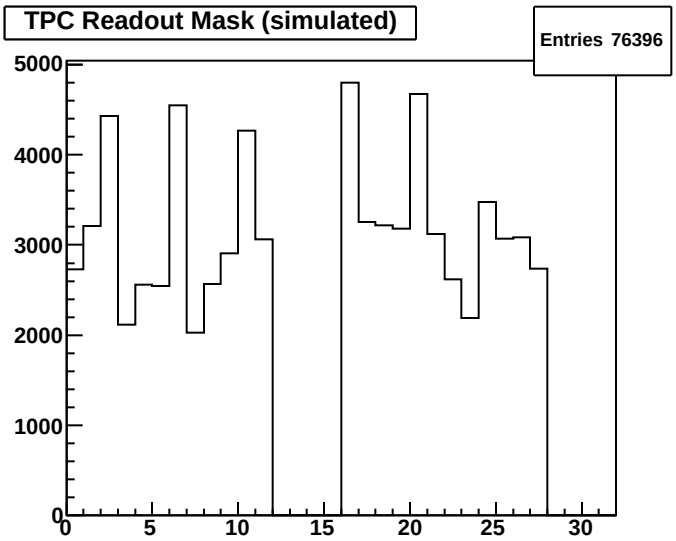

EMC L2 Input - HT01 bits/Partial JP ID
Entries 80
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

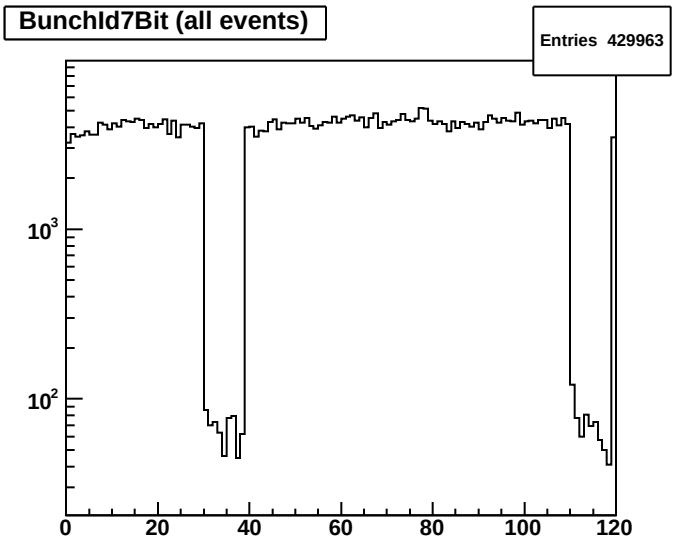

EMC L2 Input - HT23 bits
Entries 3439704
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

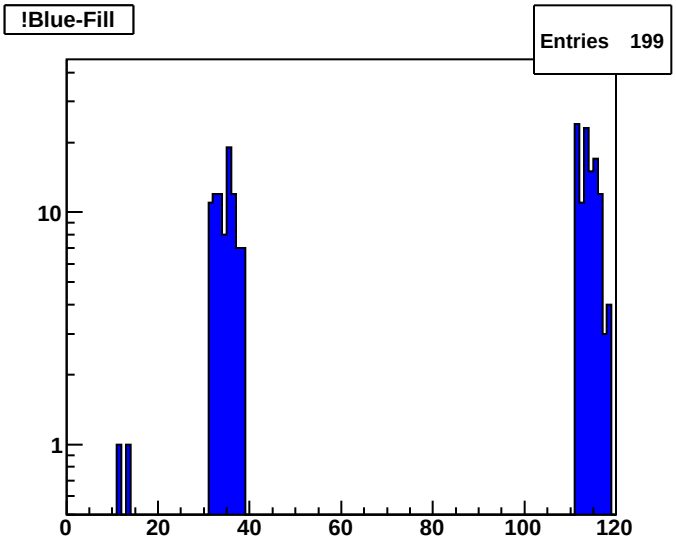

EMC L2 Input - HT23 bits
Entries 16
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

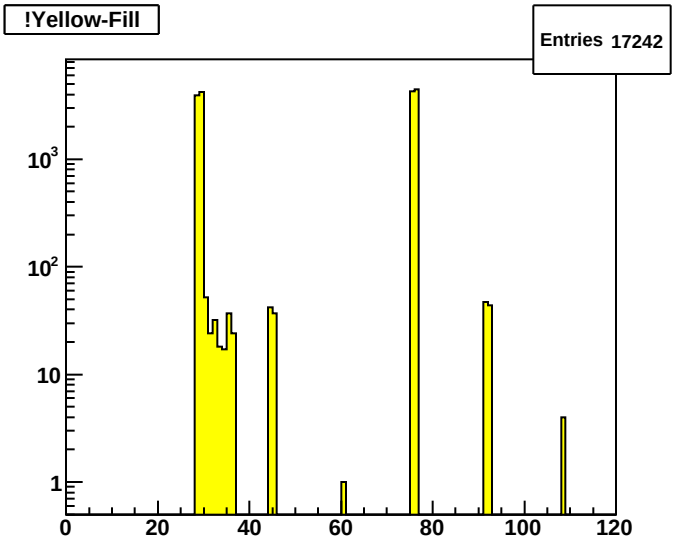

DAQ10k HT bits
Entries 43152

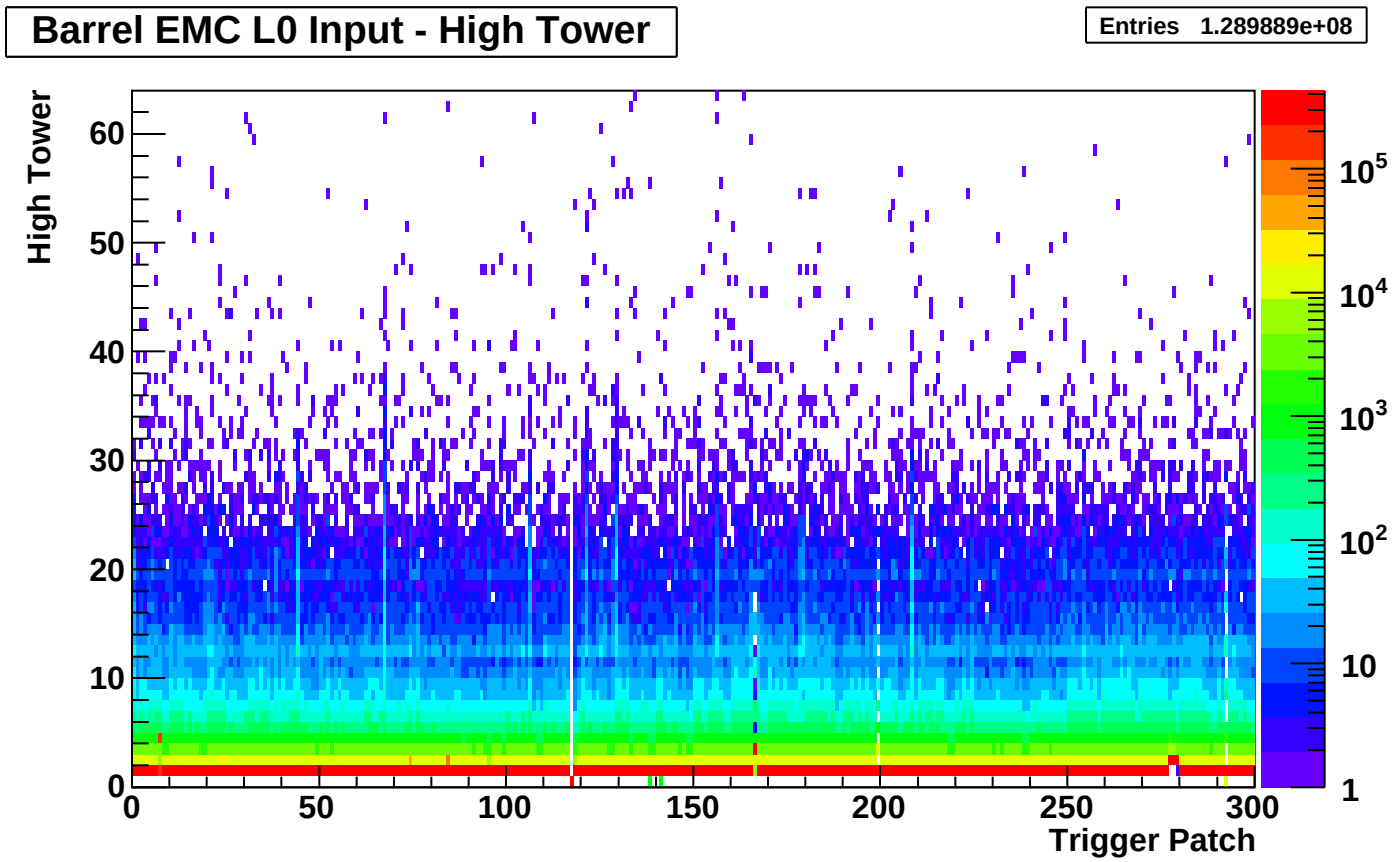

DAQ10k HT bits errors
Entries 10

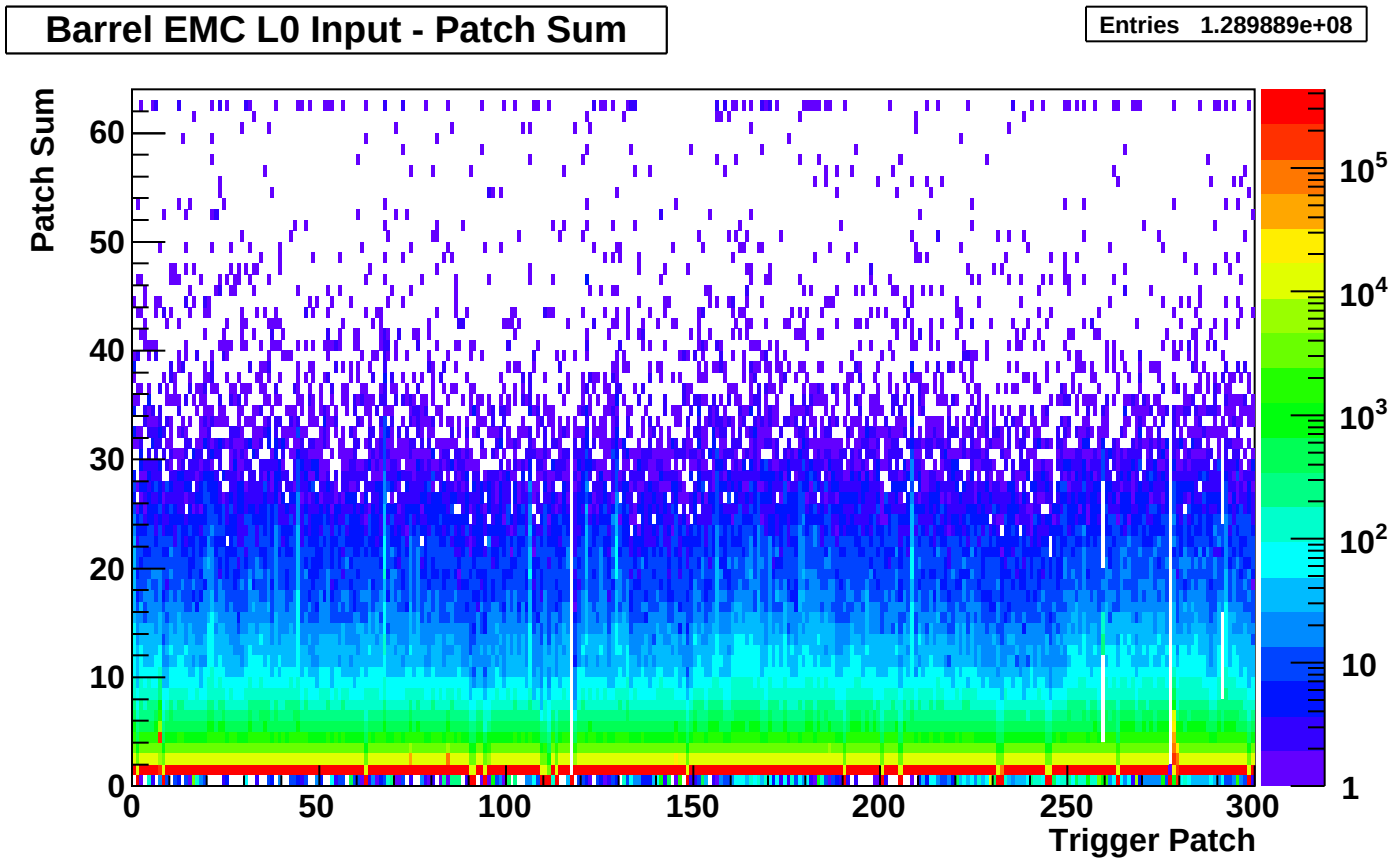

TPC Readout Mask (simulated)
Entries 76396

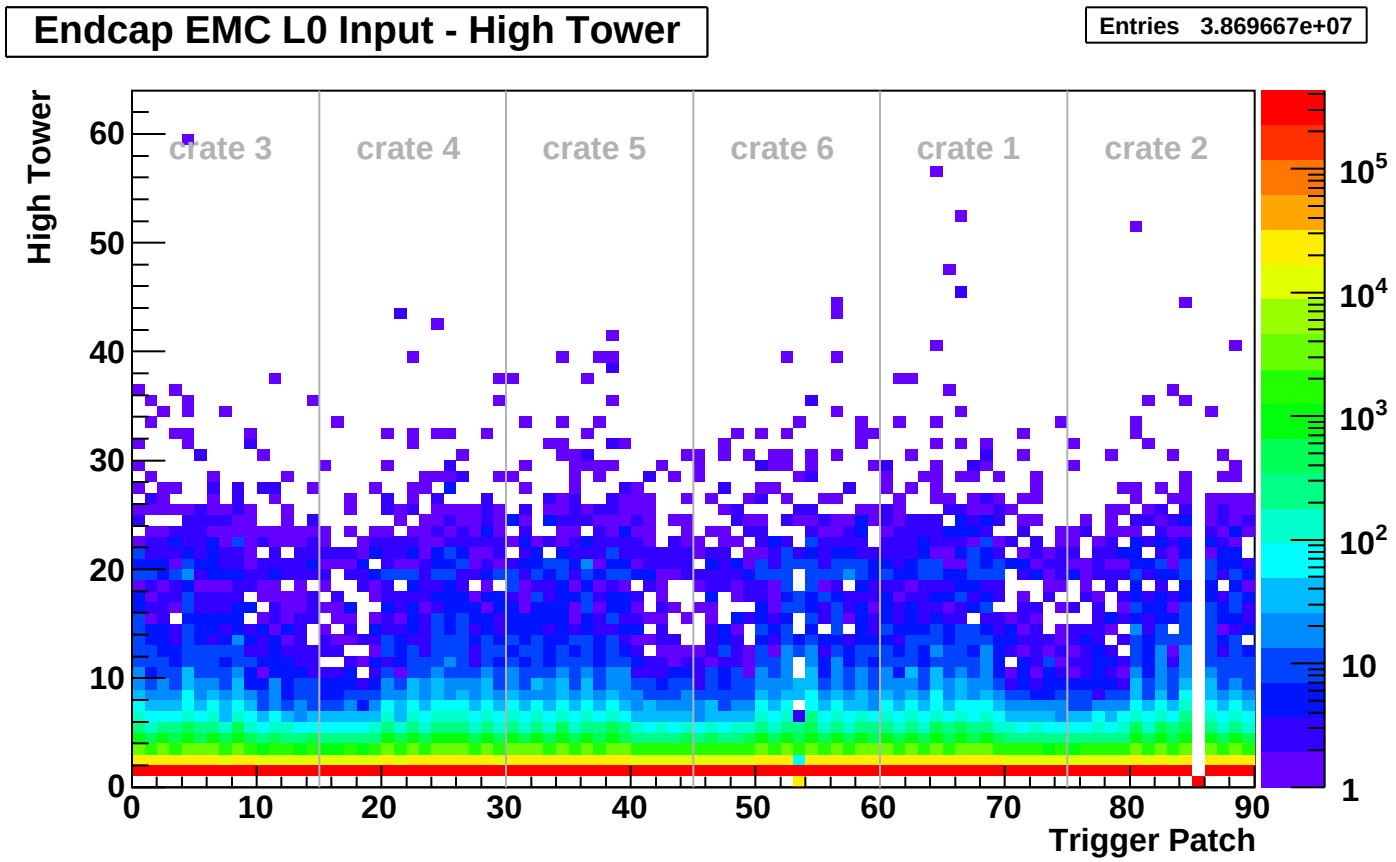

BunchId7Bit (all events)
Entries 429963

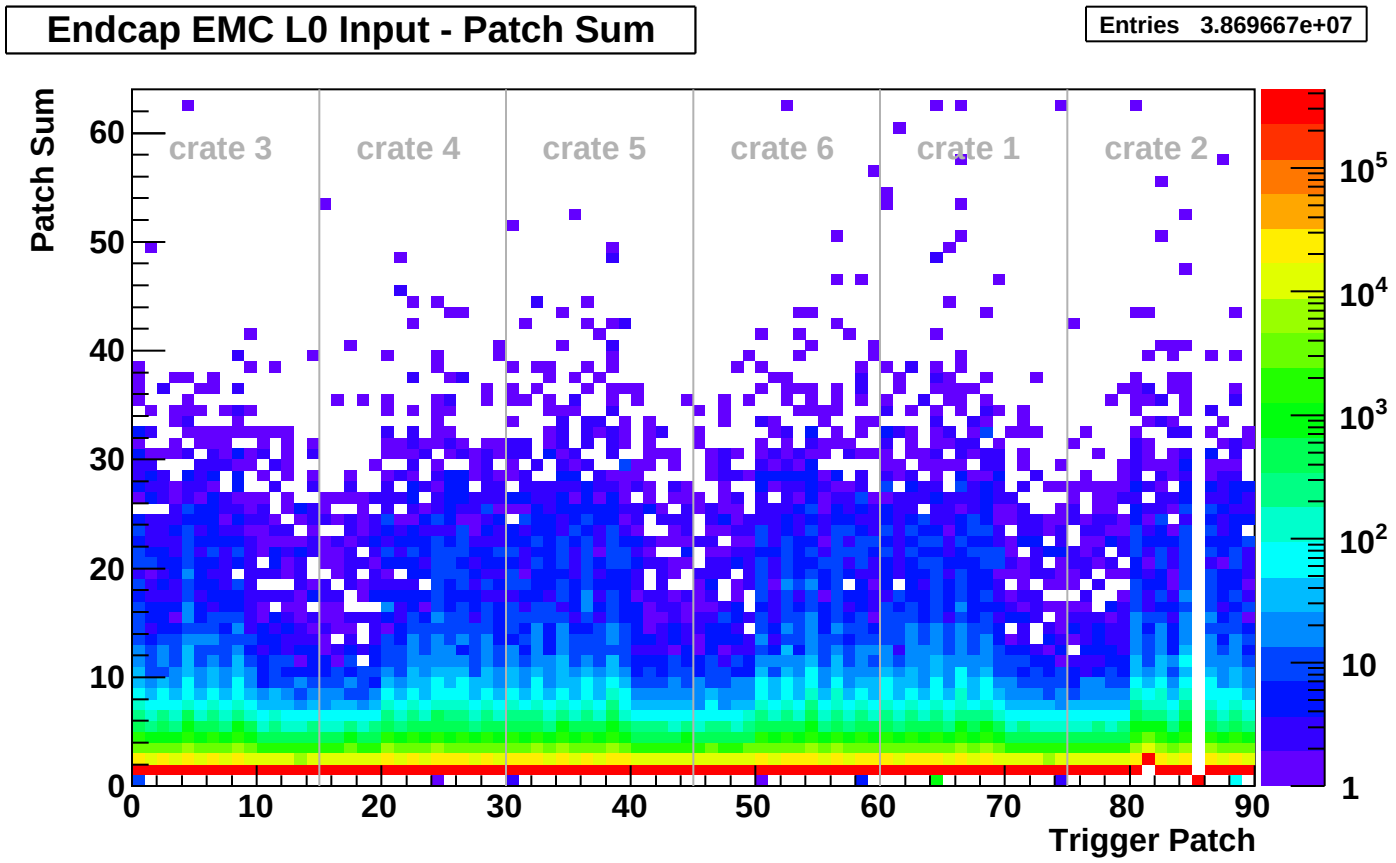

!Blue-Fill
Entries 199

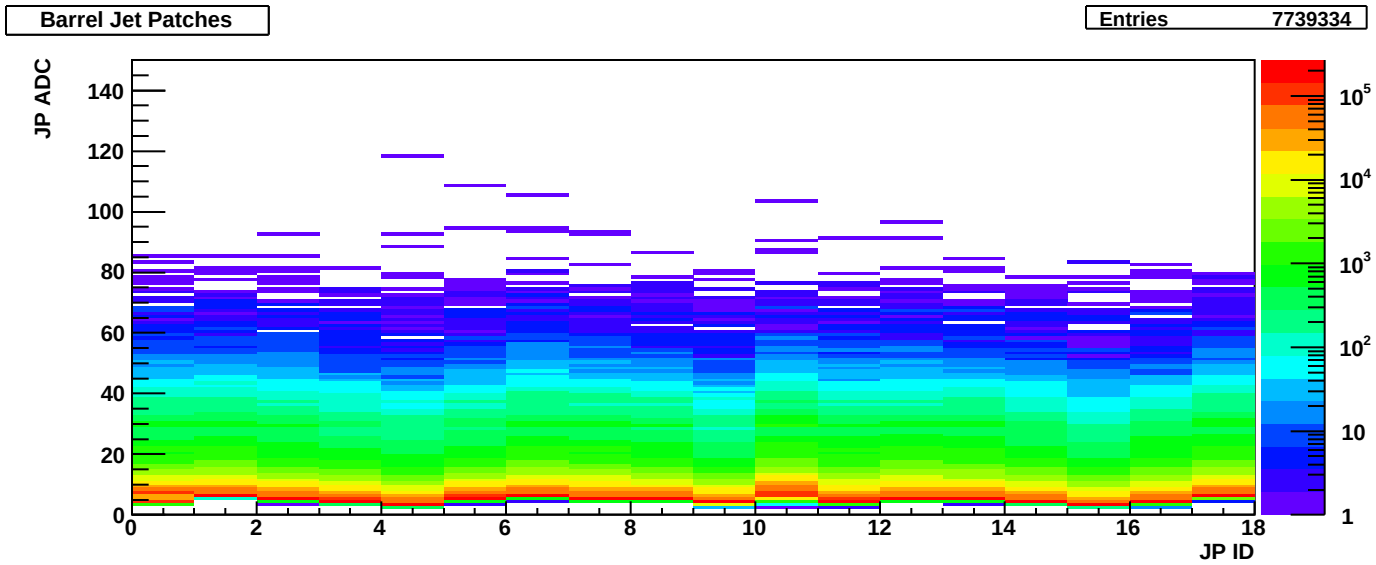

!Yellow-Fill
Entries 17242

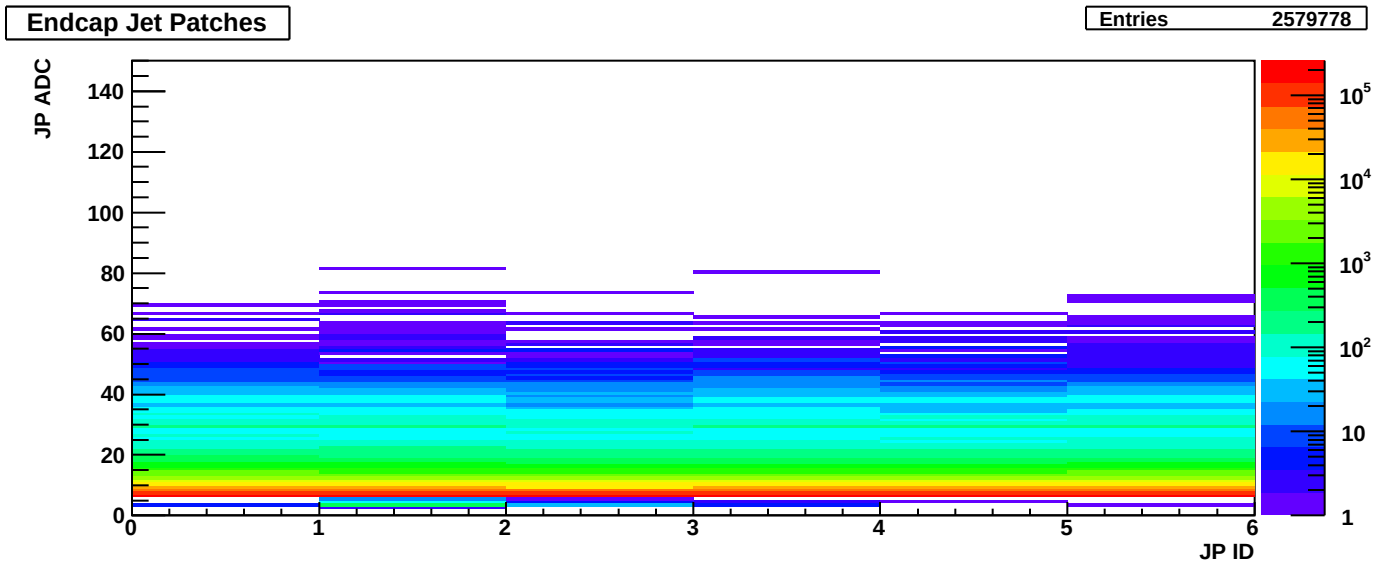

Barrel EMC L0 Input - High Tower
Entries 1.289889e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

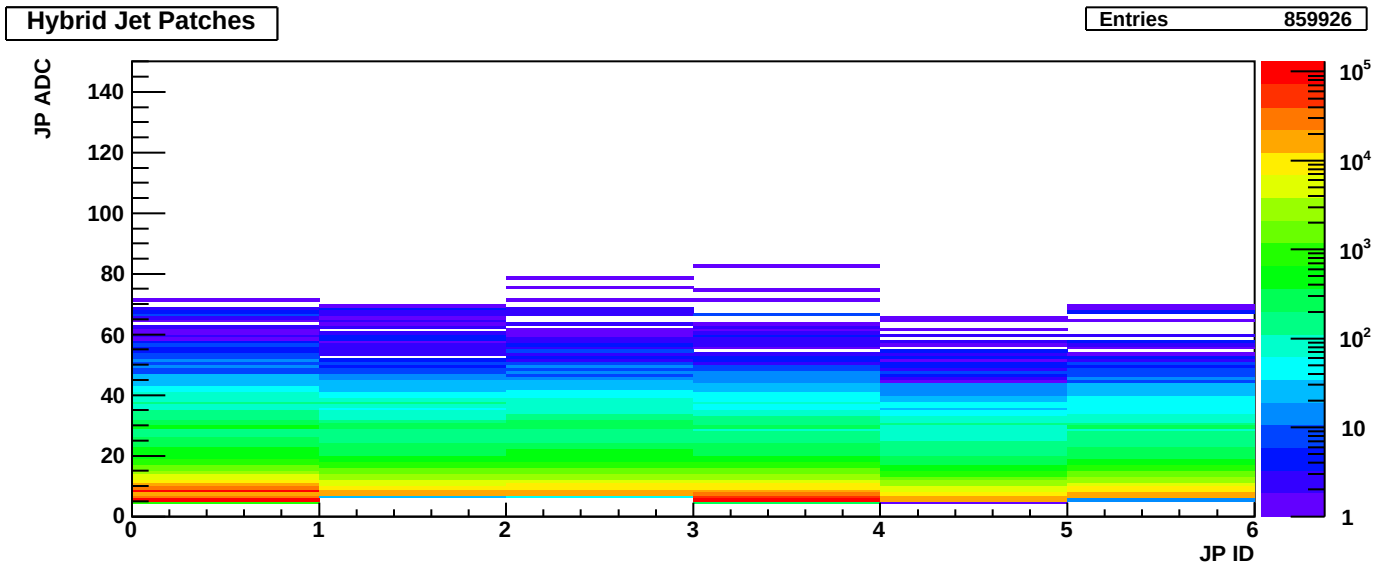

Barrel EMC L0 Input - Patch Sum
Entries 1.289889e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

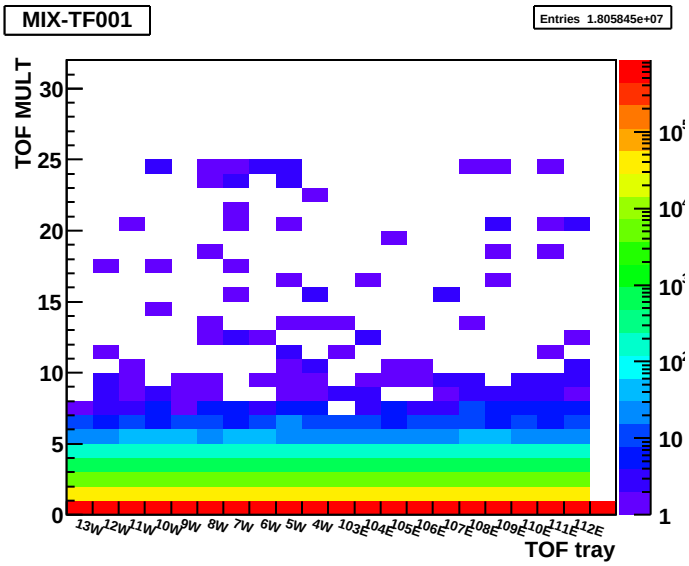

Endcap EMC L0 Input - High Tower
Entries 3.869667e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

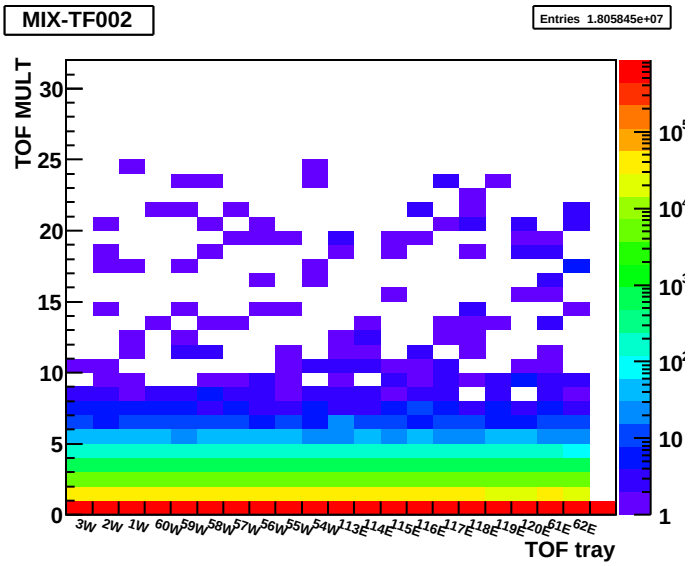

Endcap EMC L0 Input - Patch Sum
Entries 3.869667e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

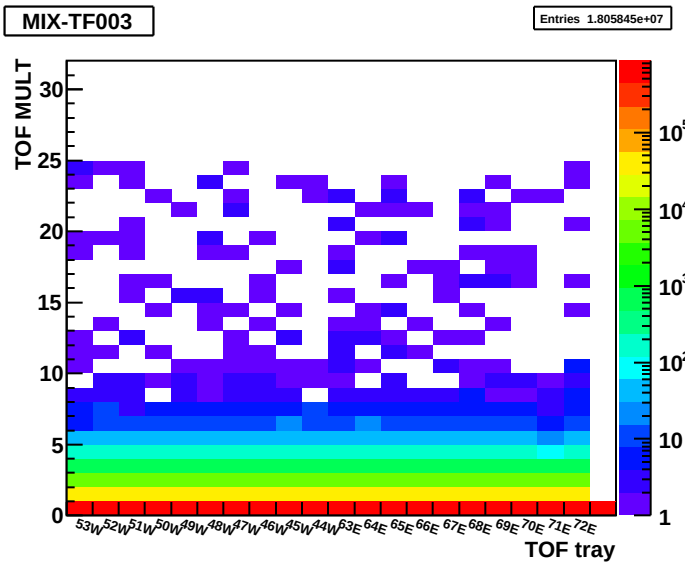

Barrel Jet Patches
Entries 7739334
JP ADC
JP ID

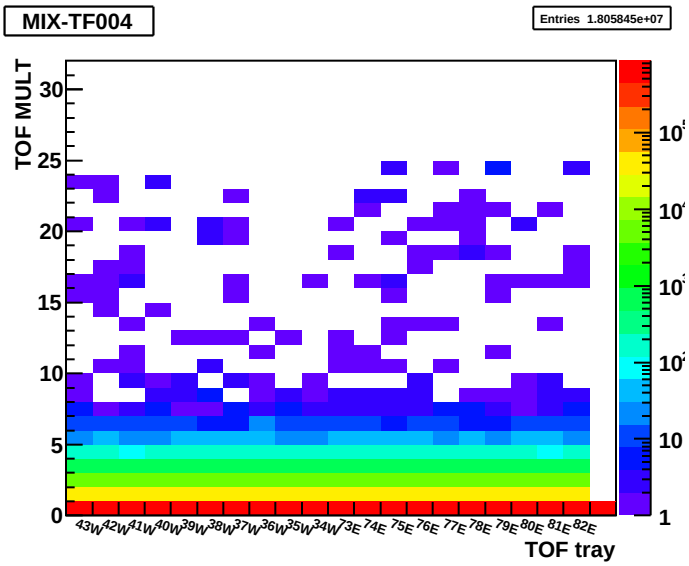

Endcap Jet Patches
Entries 2579778
JP ADC
JP ID

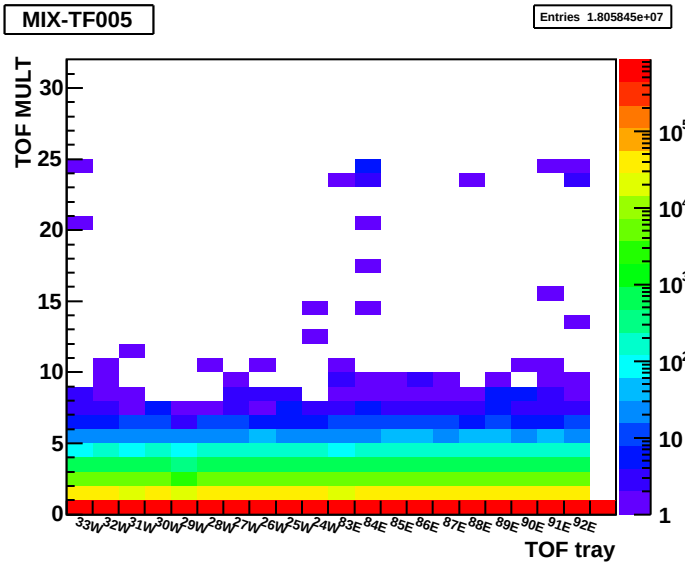

Hybrid Jet Patches
Entries 859926
JP ADC
JP ID

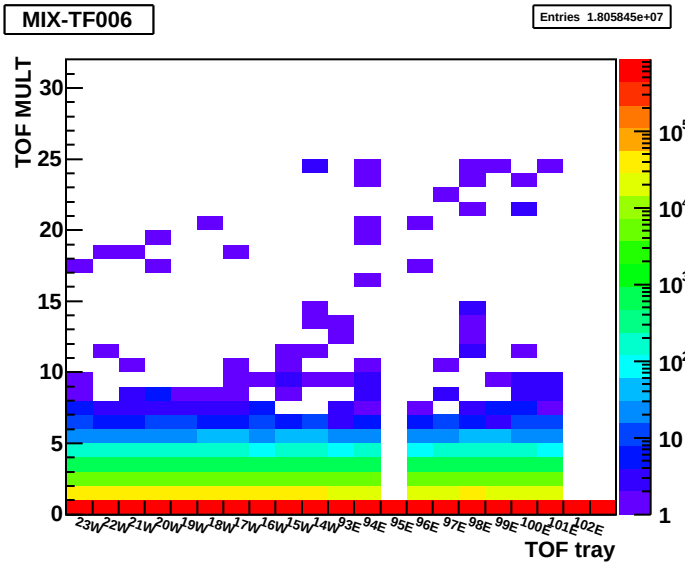

MIX-TF001
Entries 1.805845e+07
TOF MULT
TOF tray

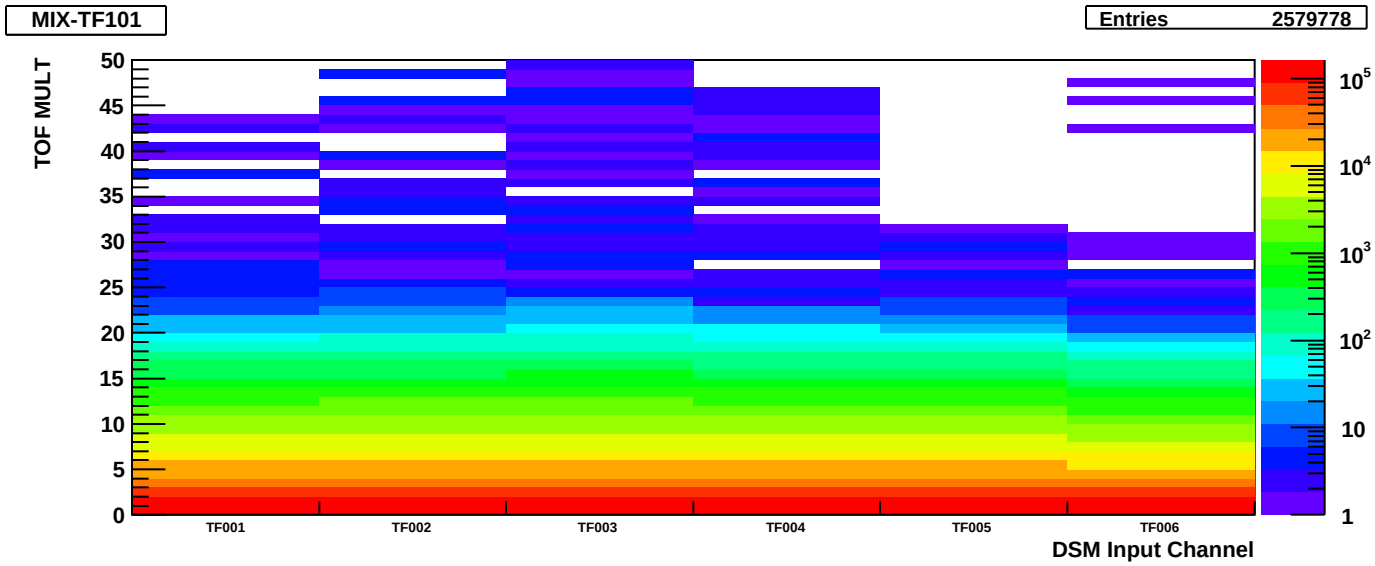

MIX-TF002
Entries 1.805845e+07
TOF MULT
TOF tray

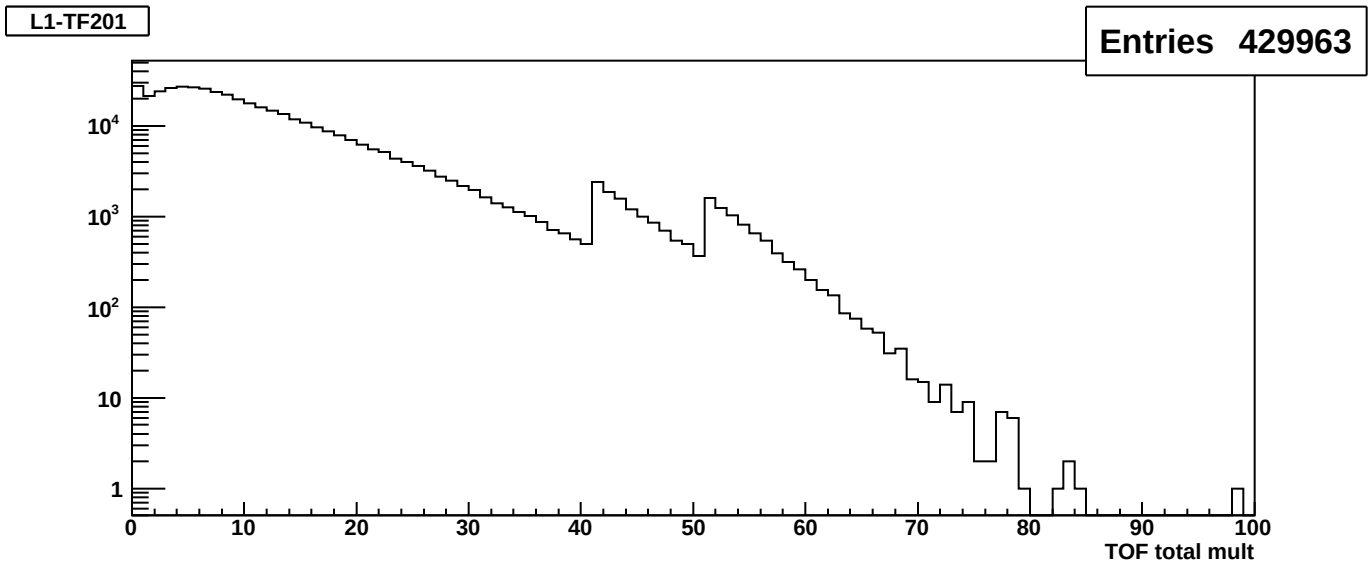

MIX-TF003
Entries 1.805845e+07
TOF MULT
TOF tray

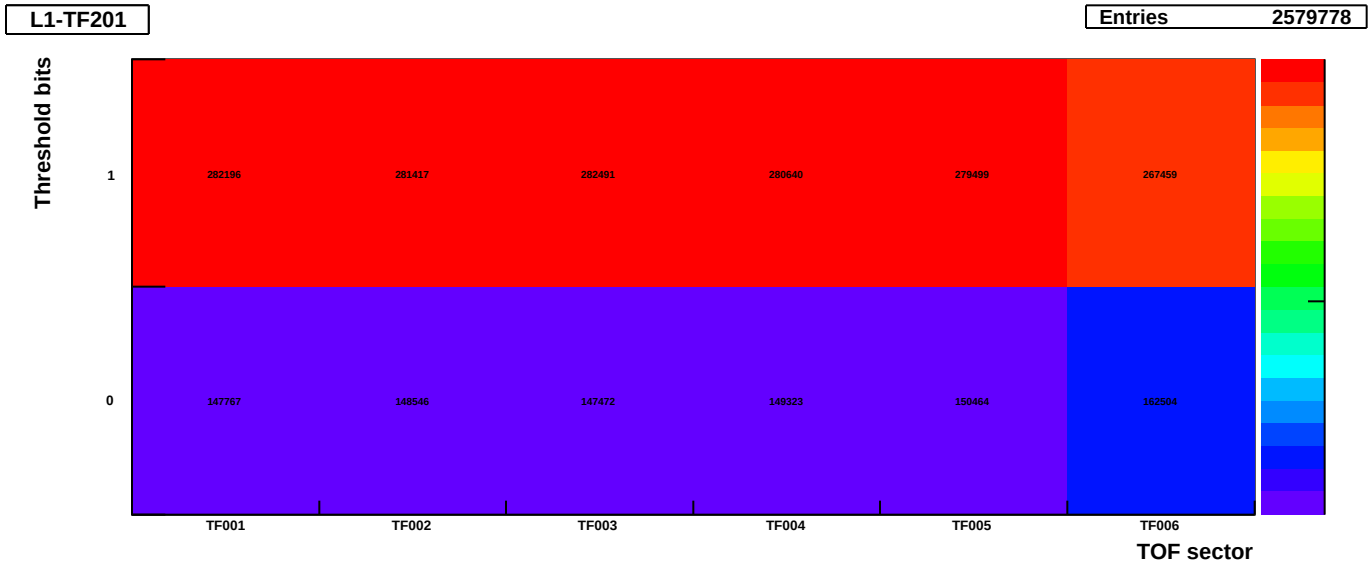

MIX-TF004
Entries 1.805845e+07
TOF MULT
TOF tray

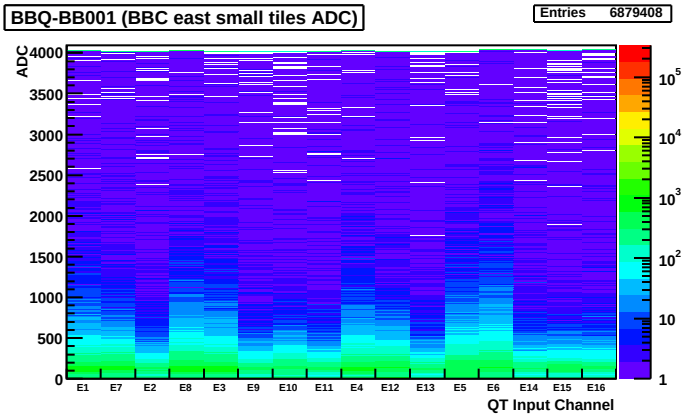

MIX-TF005
Entries 1.805845e+07
TOF MULT
TOF tray

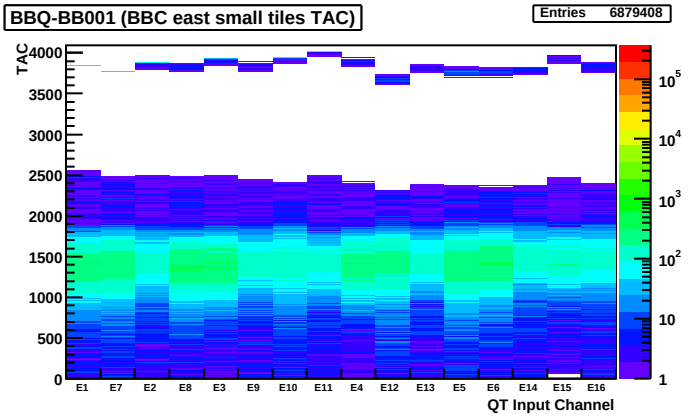

MIX-TF006
Entries 1.805845e+07
TOF MULT
TOF tray

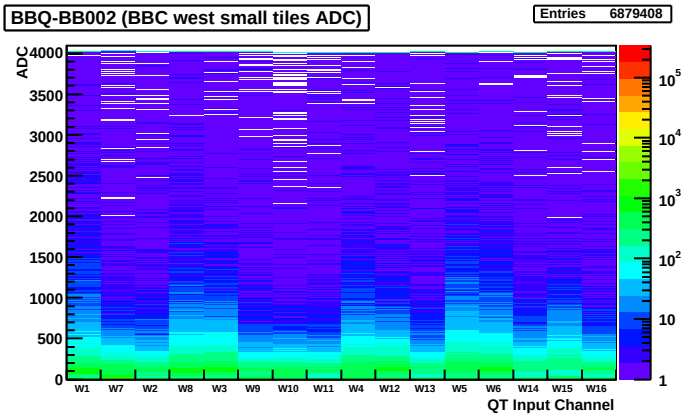

MIX-TF101
Entries 2579778
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

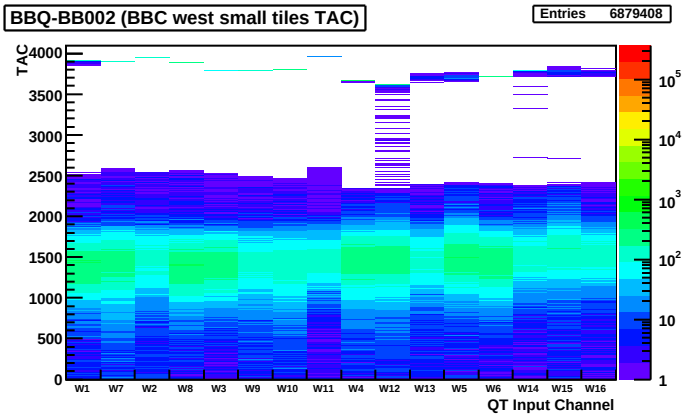

L1-TF201
Entries 429963
TOF total mult

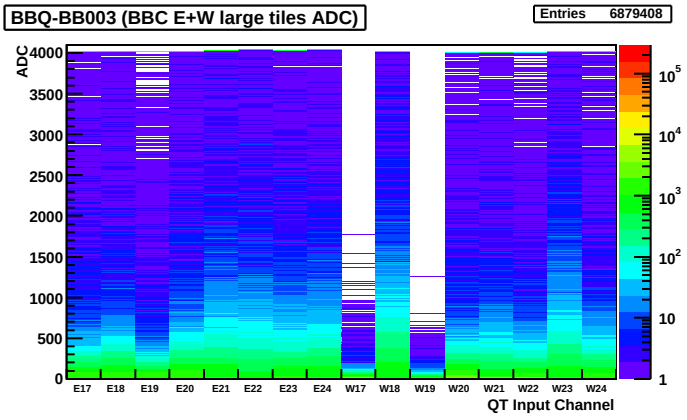

L1-TF201
Entries 2579778
Threshold bits
282196
281417
282491
280640
279499
267459
147767
148546
147472
149323
150464
162504
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

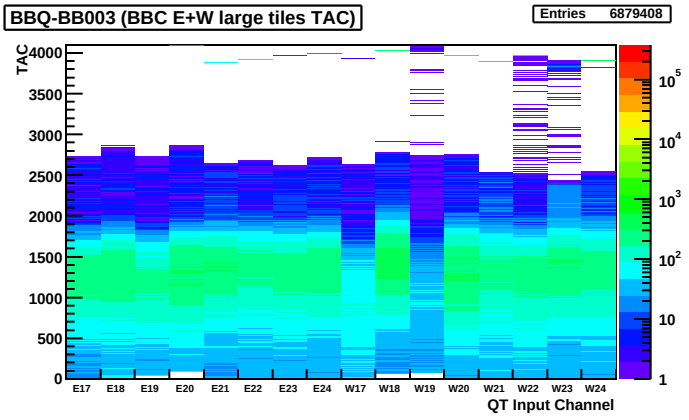

BBQ-BB001 (BBC east small tiles ADC)
Entries 6879408
ADC
QT Input Channel

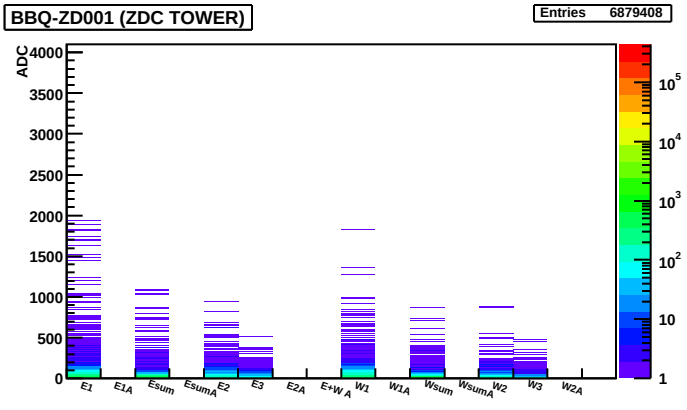

BBQ-BB001 (BBC east small tiles TAC)
Entries 6879408
TAC
QT Input Channel

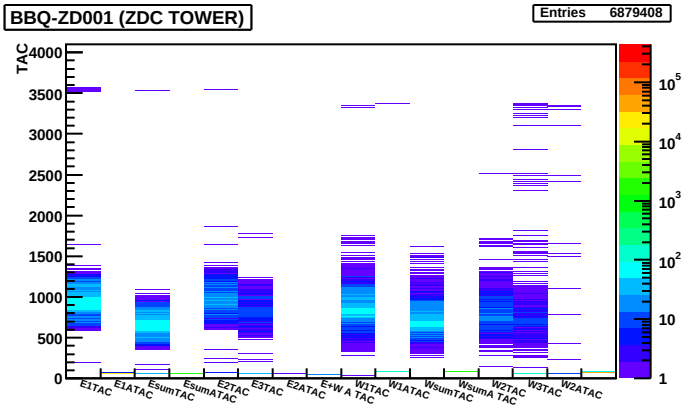

BBQ-BB002 (BBC west small tiles ADC)
Entries 6879408
ADC
QT Input Channel

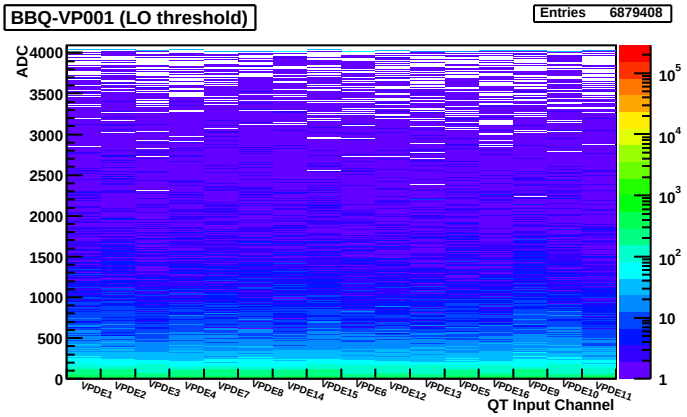

BBQ-BB002 (BBC west small tiles TAC)
Entries 6879408
TAC
QT Input Channel

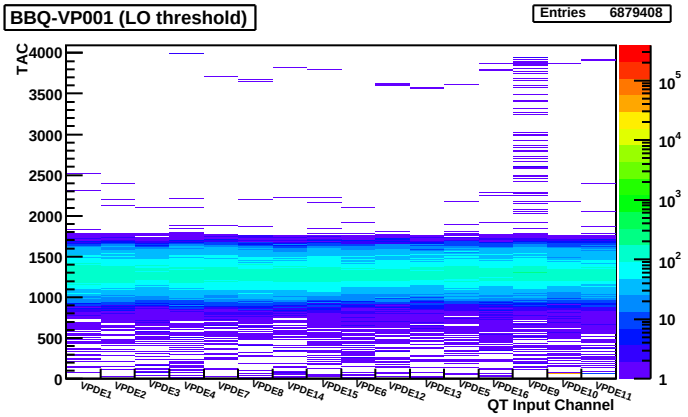

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6879408
ADC
QT Input Channel

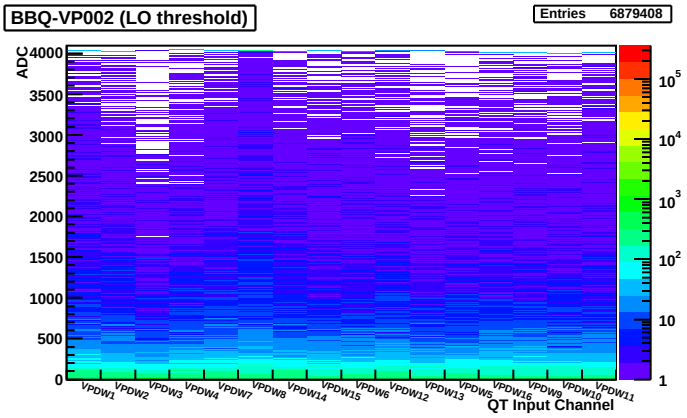

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6879408
TAC
QT Input Channel

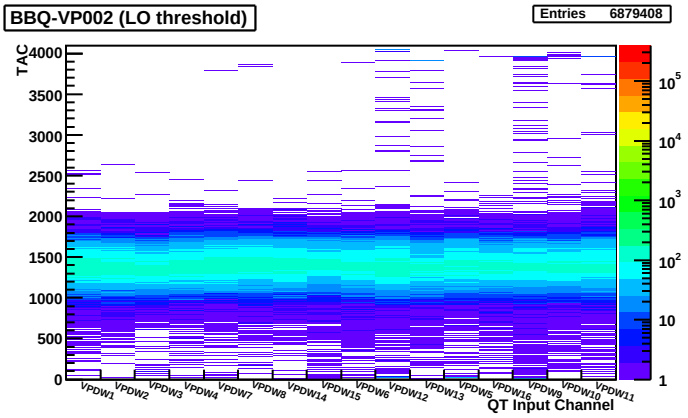

BBQ-ZD001 (ZDC TOWER)
Entries 6879408
ADC

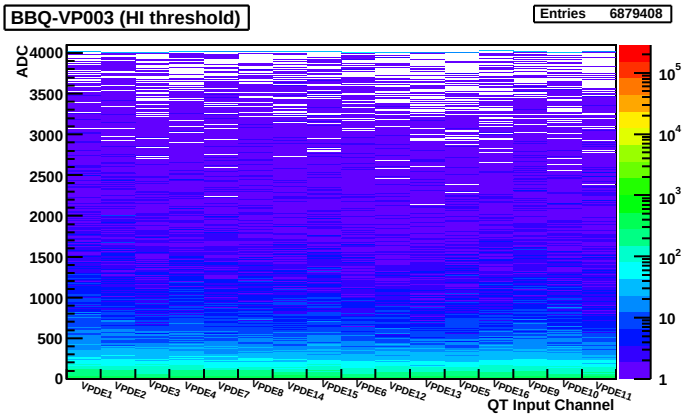

BBQ-ZD001 (ZDC TOWER)
Entries 6879408
TAC

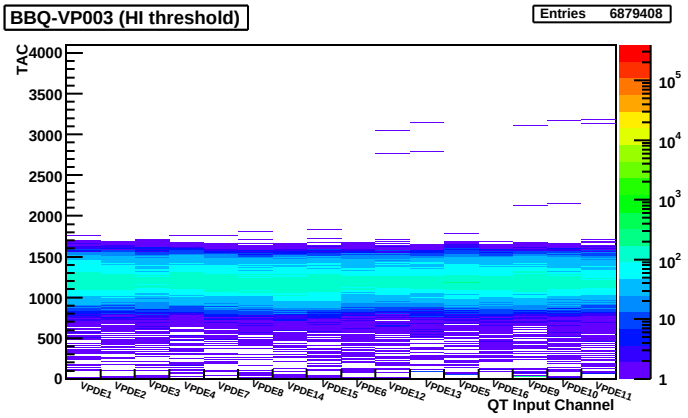

BBQ-VP001 (LO threshold)
Entries 6879408
ADC
QT Input Channel

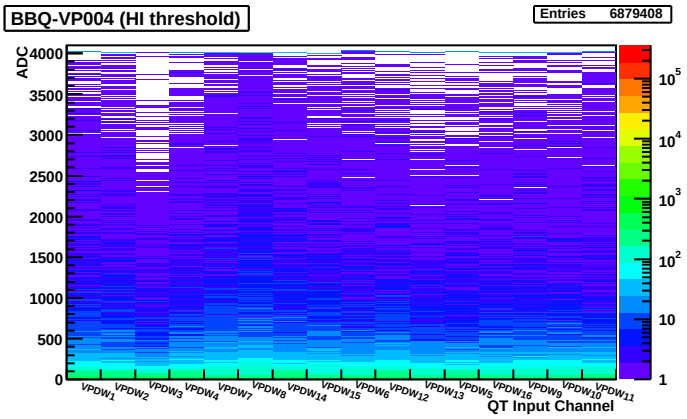

BBQ-VP001 (LO threshold)
Entries 6879408
TAC
QT Input Channel

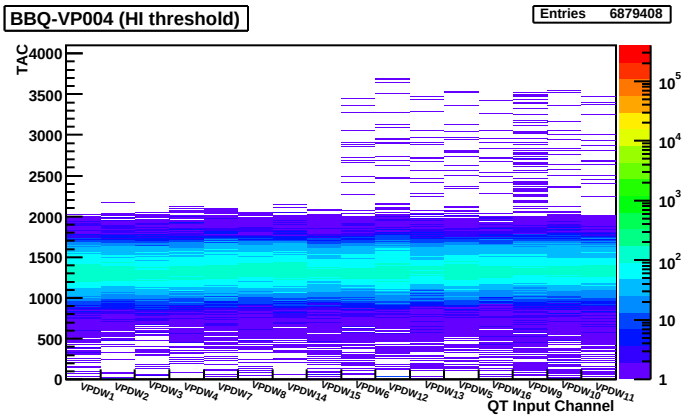

BBQ-VP002 (LO threshold)
Entries 6879408
ADC
QT Input Channel

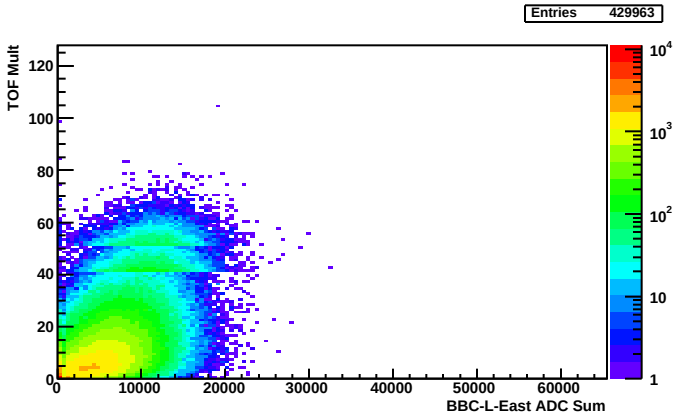

BBQ-VP002 (LO threshold)
Entries 6879408
TAC
QT Input Channel

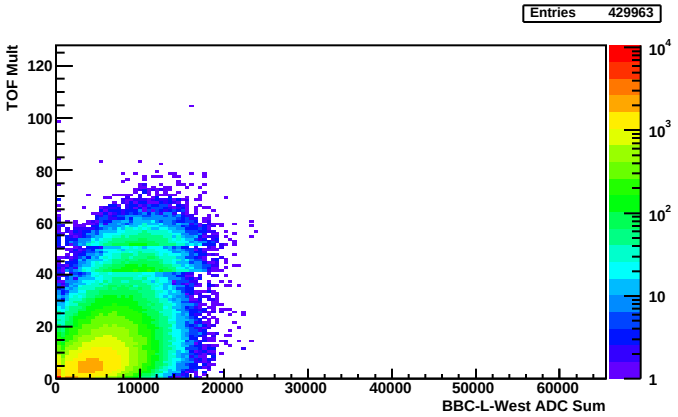

BBQ-VP003 (HI threshold)
Entries 6879408
ADC
QT Input Channel

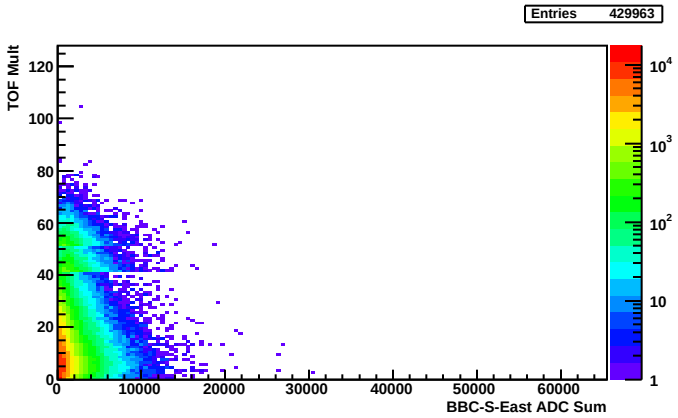

BBQ-VP003 (HI threshold)
Entries 6879408
TAC
QT Input Channel

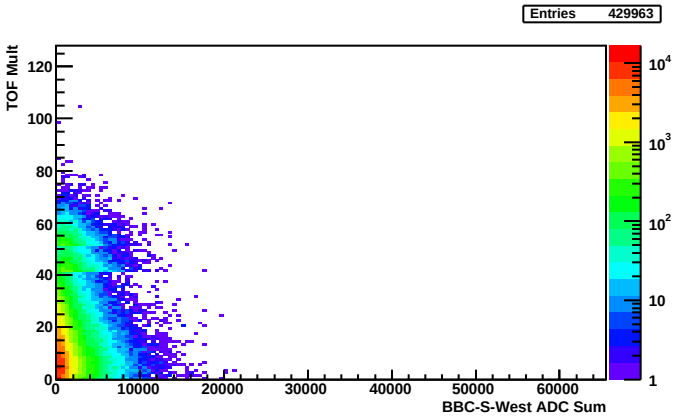

BBQ-VP004 (HI threshold)
Entries 6879408
ADC
QT Input Channel

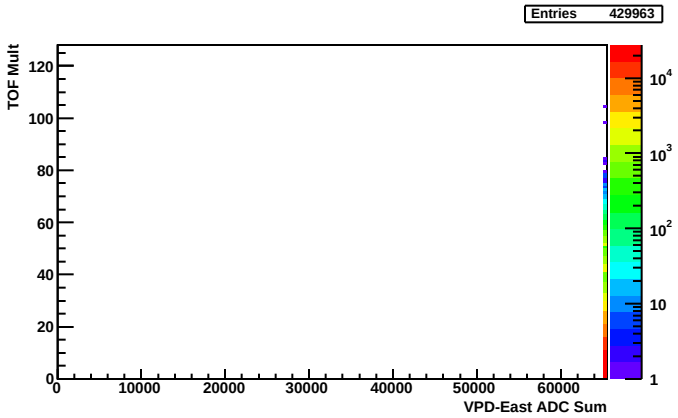

BBQ-VP004 (HI threshold)
Entries 6879408
TAC
QT Input Channel

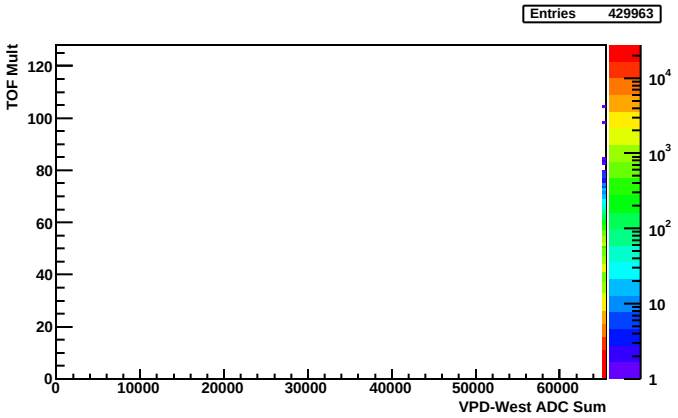

Entries 429963
TOF Mult
BBC-L-East ADC Sum

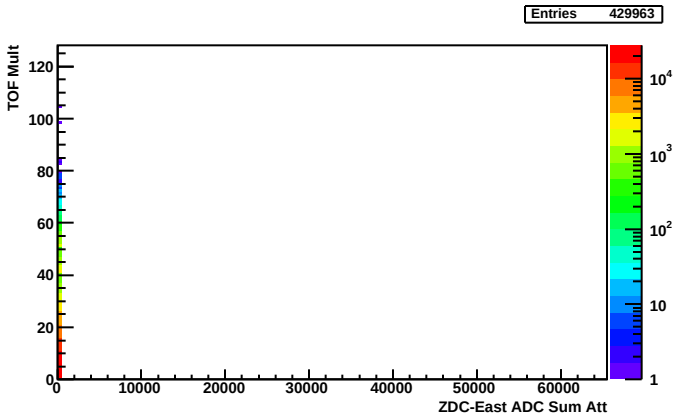

Entries 429963
TOF Mult
BBC-L-West ADC Sum

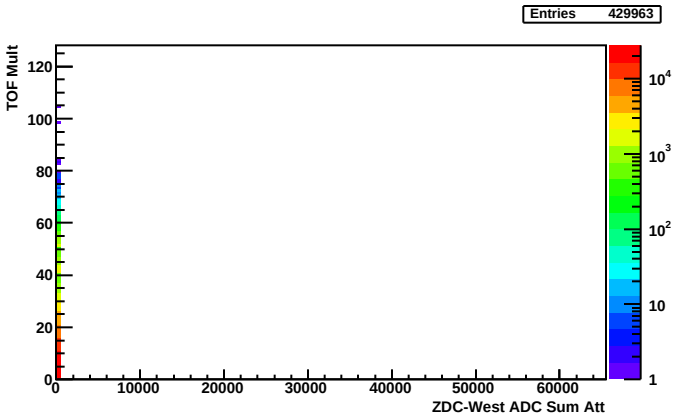

Entries 429963
TOF Mult
BBC-S-East ADC Sum

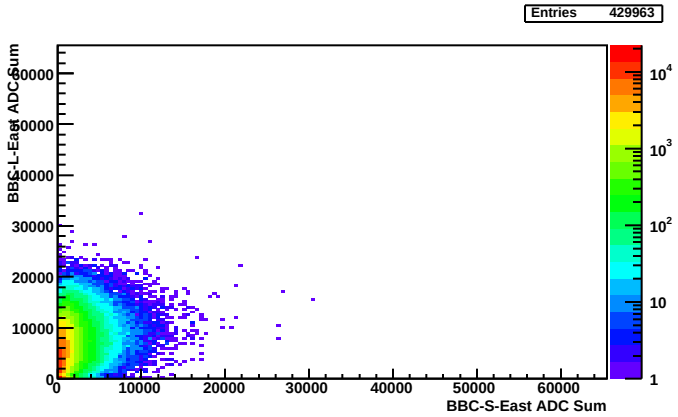

Entries 429963
TOF Mult
BBC-S-West ADC Sum

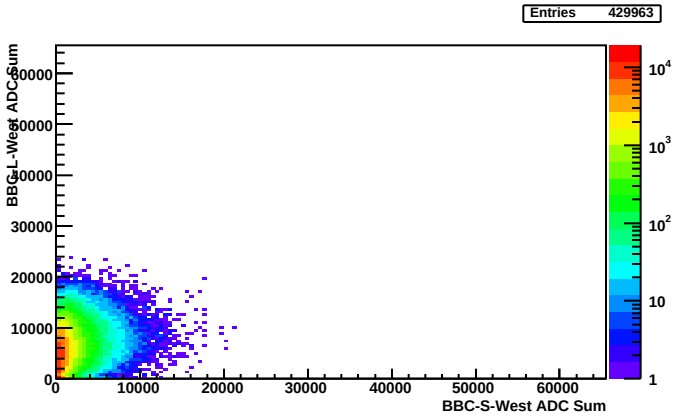

Entries 429963
TOF Mult
VPD-East ADC Sum

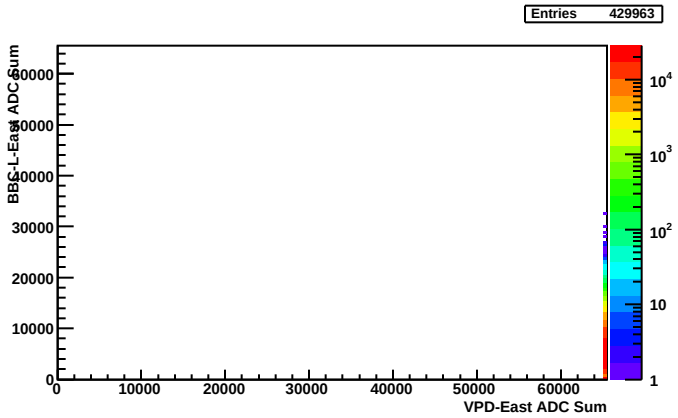

Entries 429963
TOF Mult
VPD-West ADC Sum

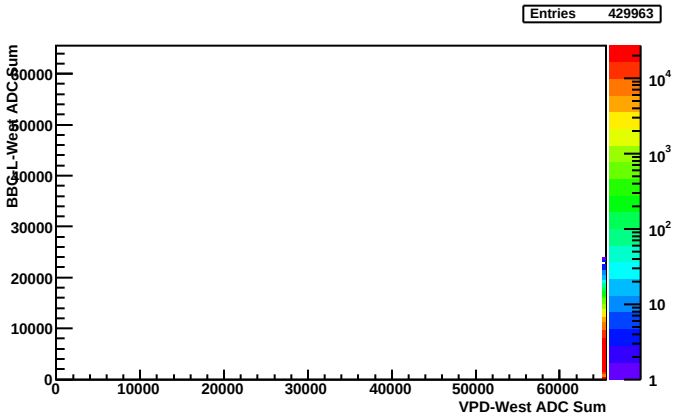

Entries 429963
TOF Mult
ZDC-East ADC Sum Att

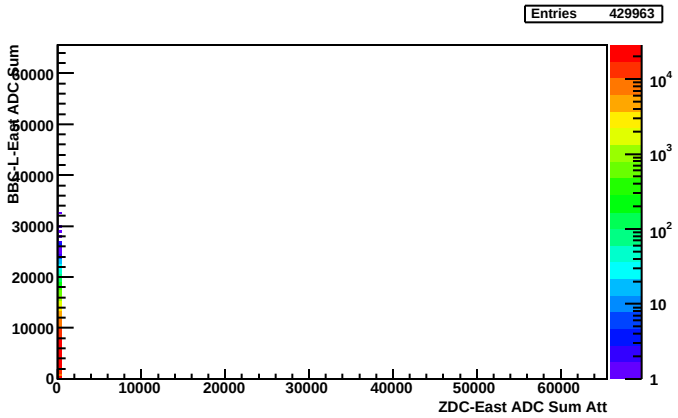

Entries 429963
TOF Mult
ZDC-West ADC Sum Att

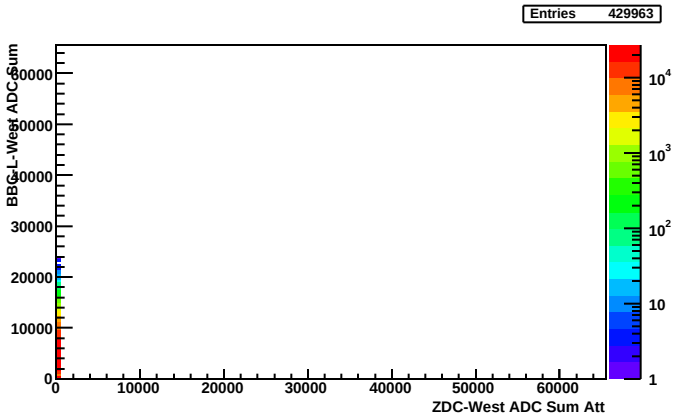

Entries 429963
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 429963
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 429963
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 429963
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 429963
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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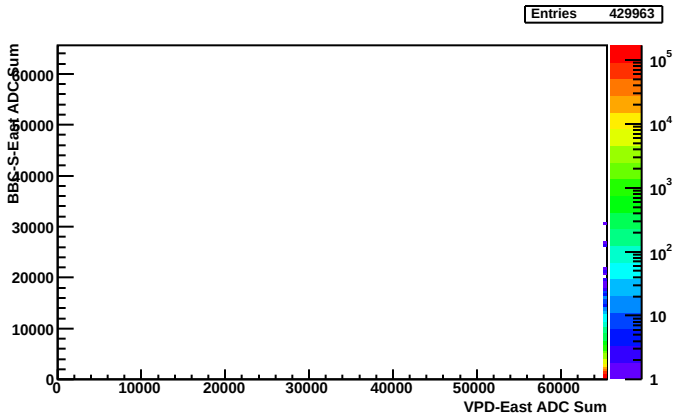
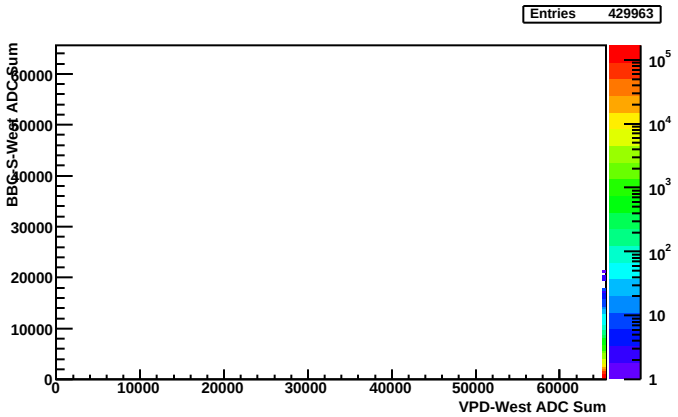
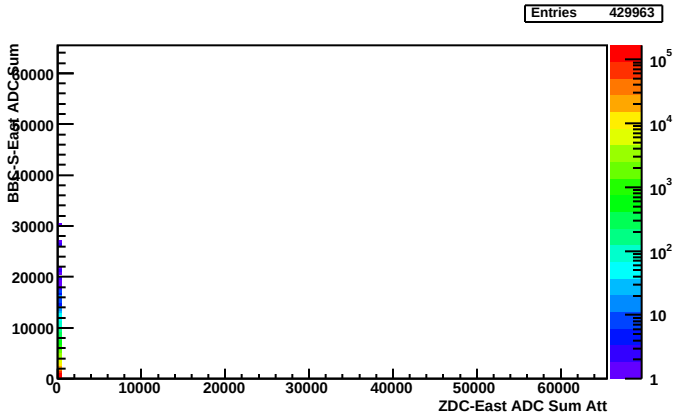
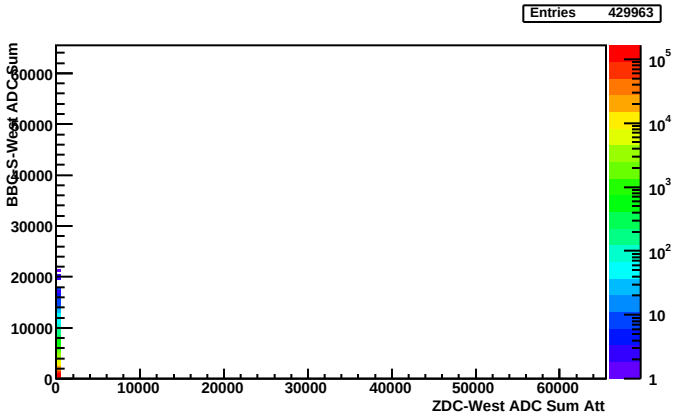
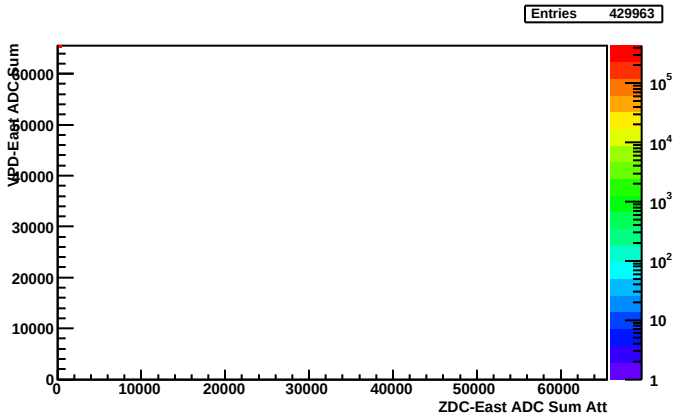
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

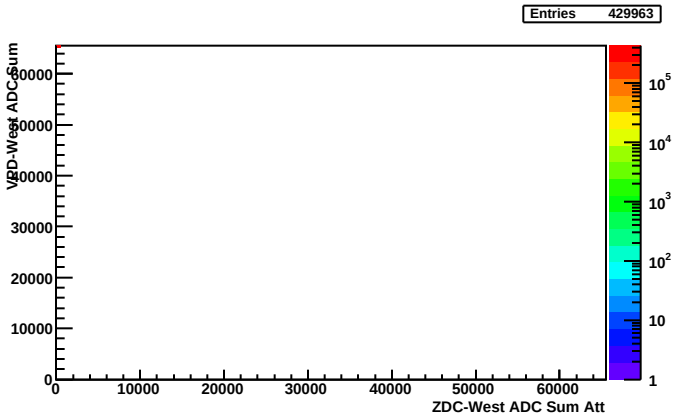

Entries 429963
BBC-S-East ADC Sum
VPD-East ADC Sum

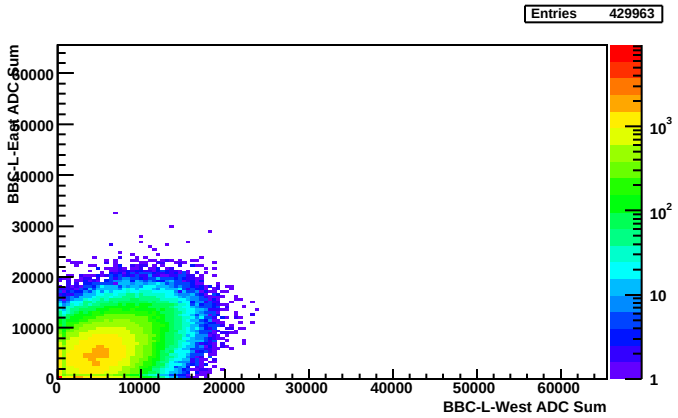

Entries 429963
BBC-S-West ADC Sum
VPD-West ADC Sum

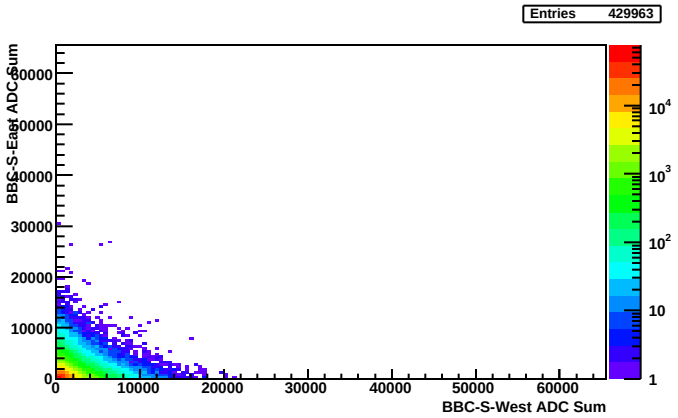

Entries 429963
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

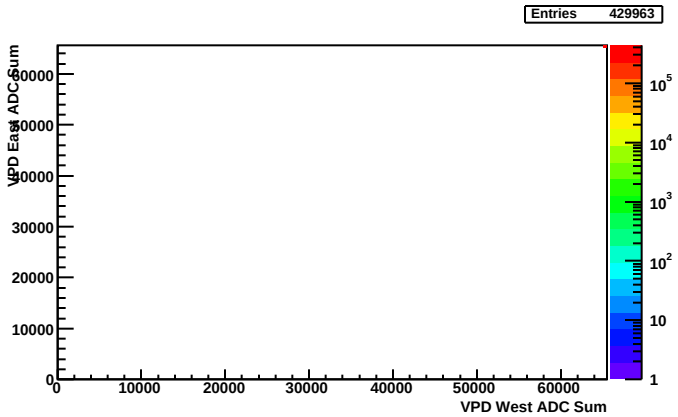

Entries 429963
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

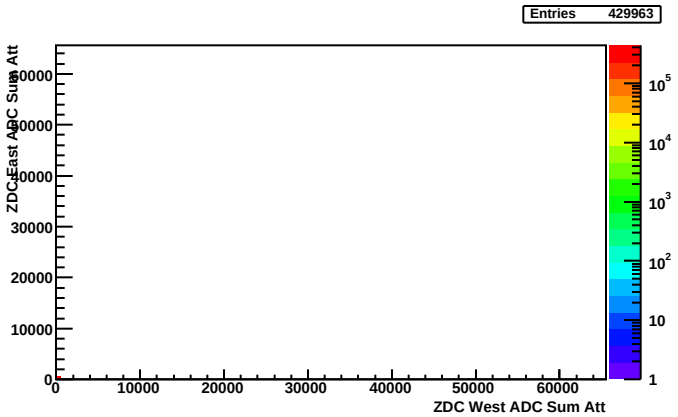

Entries 429963
VPD-East ADC Sum
ZDC-East ADC Sum Att

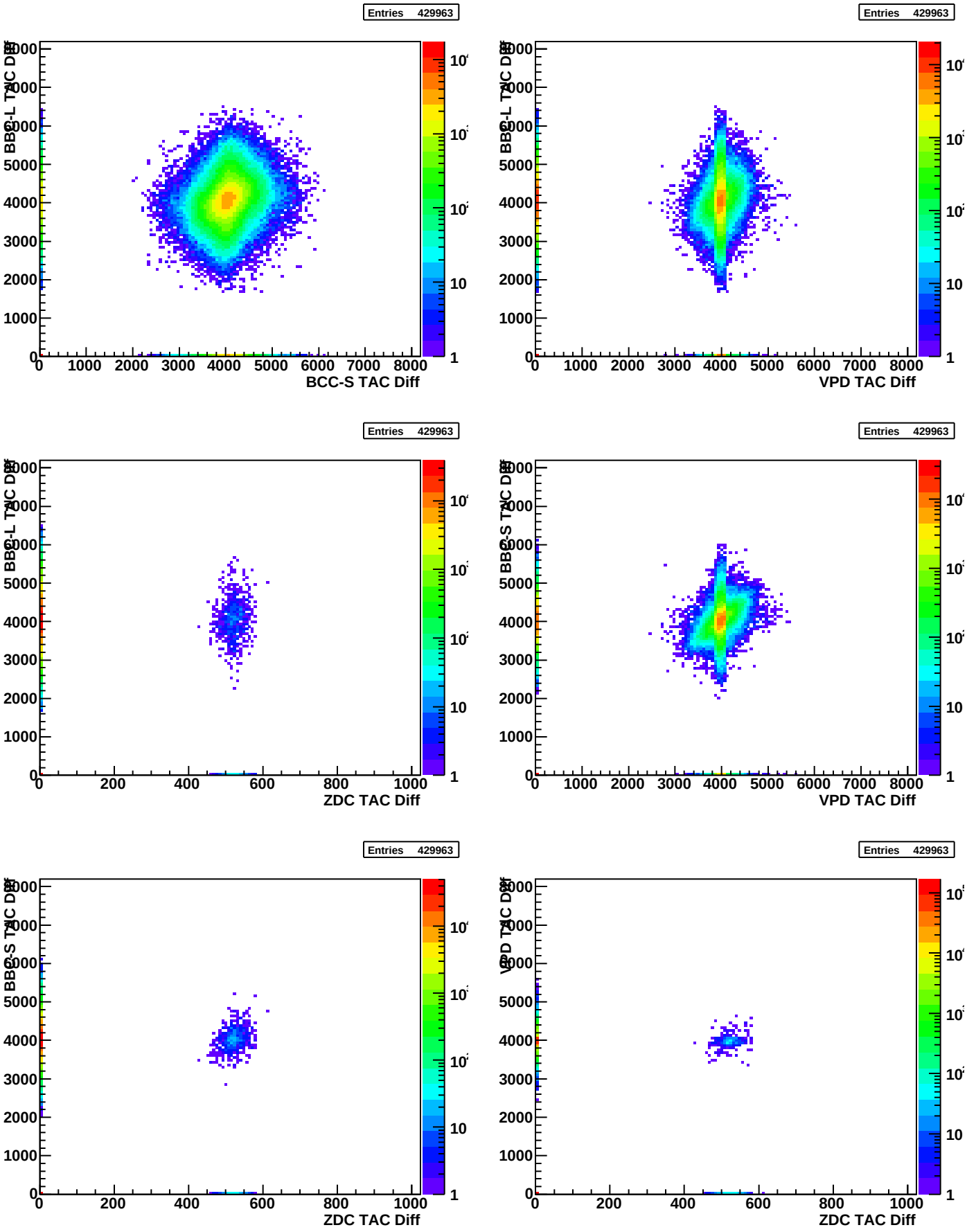

Entries 429963
VPD-West ADC Sum
ZDC-West ADC Sum Att

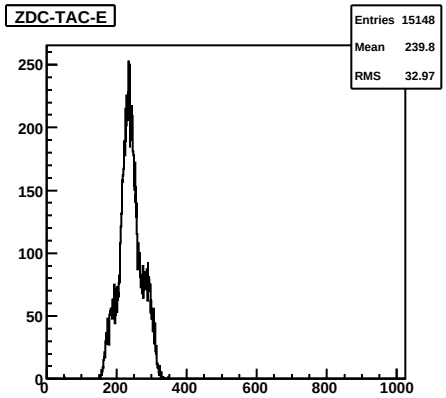

Entries 429963
BBC-L-East ADC Sum
BBC-L-West ADC Sum

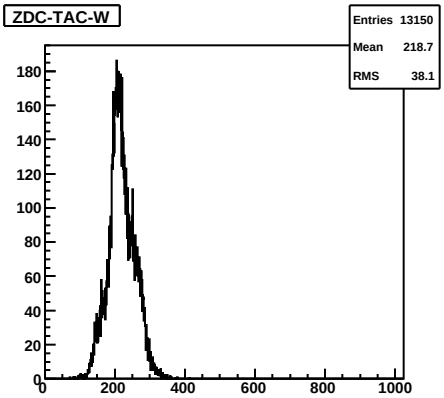

Entries 429963
BBC-S-East ADC Sum
BBC-S-West ADC Sum

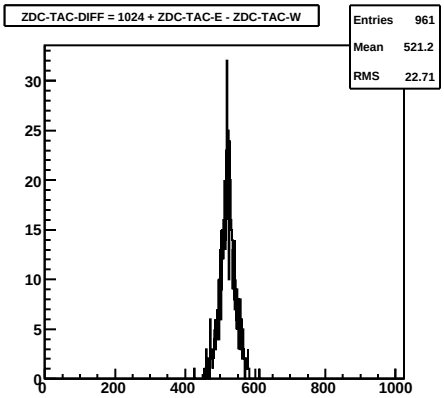

Entries 429963
VPD East ADC Sum
VPD West ADC Sum

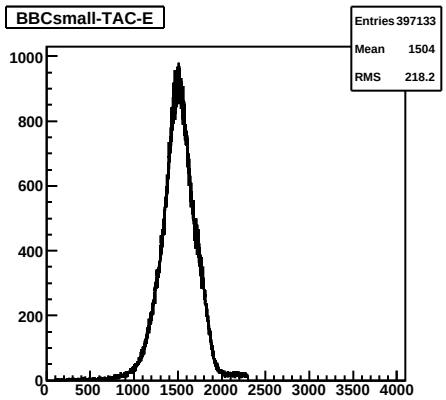

Entries 429963
ZDC East ADC Sum Att
ZDC West ADC Sum Att

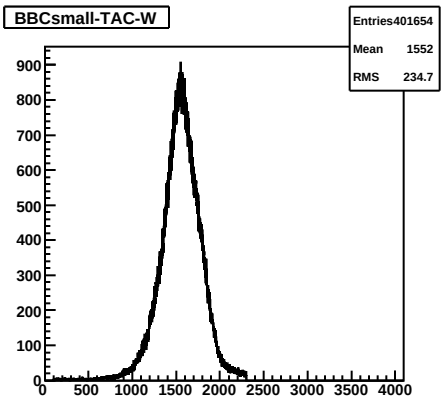

Entries 429963
BBC-L TAC Diff
BCC-S TAC Diff
Entries 429963
BBC-L TAC Diff
VPD TAC Diff
Entries 429963
BBC-L TAC Diff
ZDC TAC Diff
Entries 429963
BBC-S TAC Diff
VPD TAC Diff
Entries 429963
BBC-S TAC Diff
ZDC TAC Diff
Entries 429963
VPD TAC Diff
ZDC TAC Diff

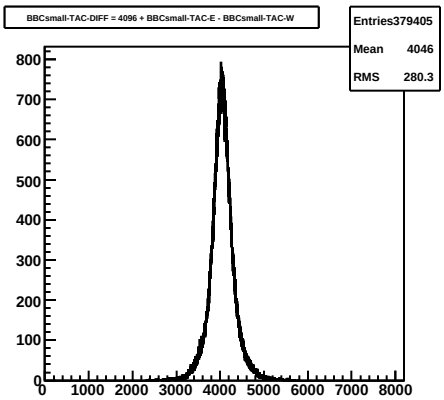

ZDC-TAC-E
Entries 15148
Mean 239.8
RMS 32.97

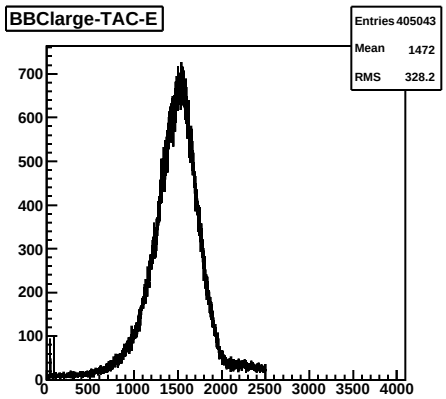

ZDC-TAC-W
Entries 13150
Mean 218.7
RMS 38.1

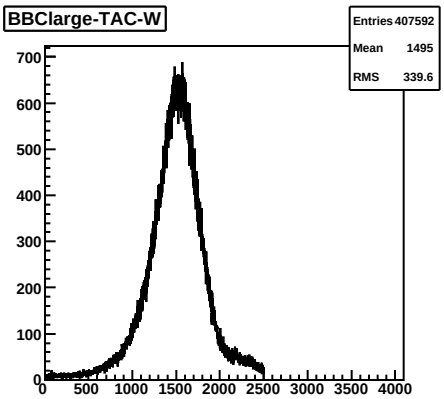

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 961
Mean 521.2
RMS 22.71

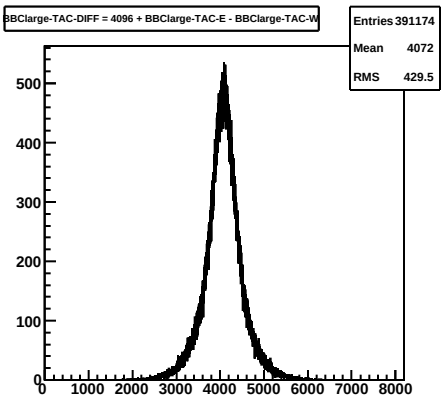

BBCsmall-TAC-E
Entries 397133
Mean 1504
RMS 218.2

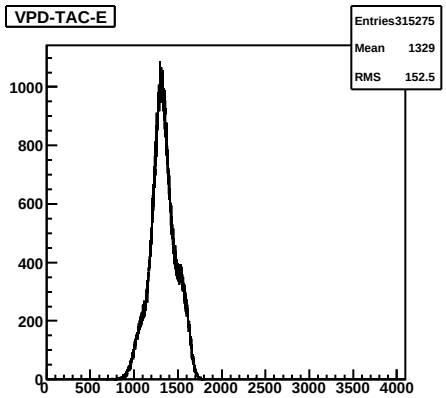

BBCsmall-TAC-W
Entries 401654
Mean 1552
RMS 234.7

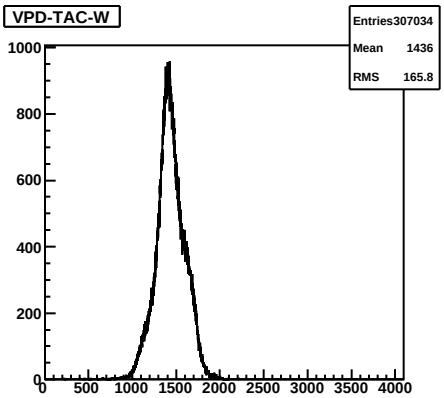

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 379405
Mean 4046
RMS 280.3

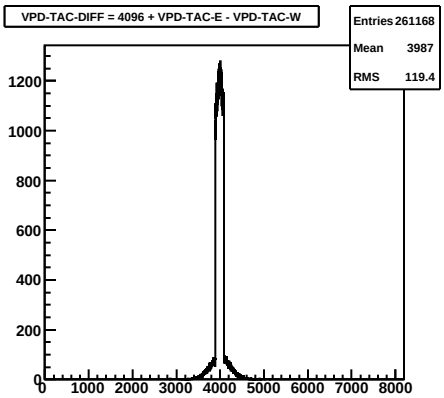

BBClarge-TAC-E
Entries 405043
Mean 1472
RMS 328.2

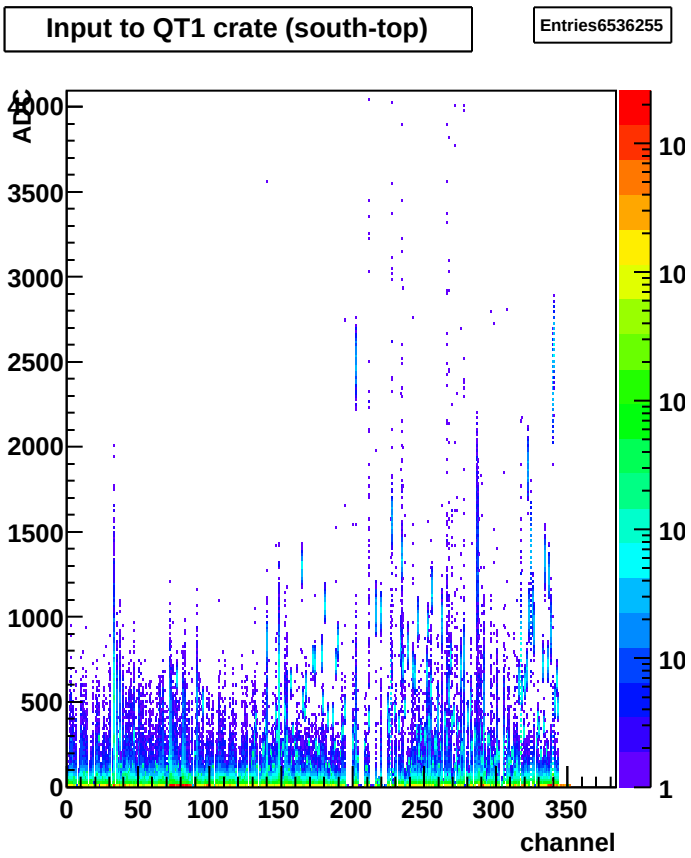

BBClarge-TAC-W
Entries 407592
Mean 1495
RMS 339.6

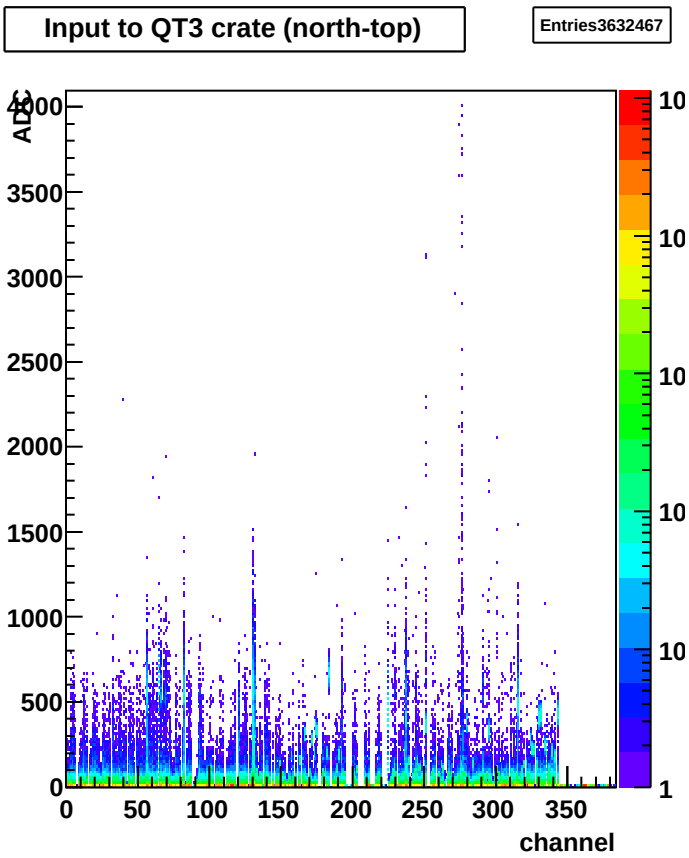

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 391174
Mean 4072
RMS 429.5

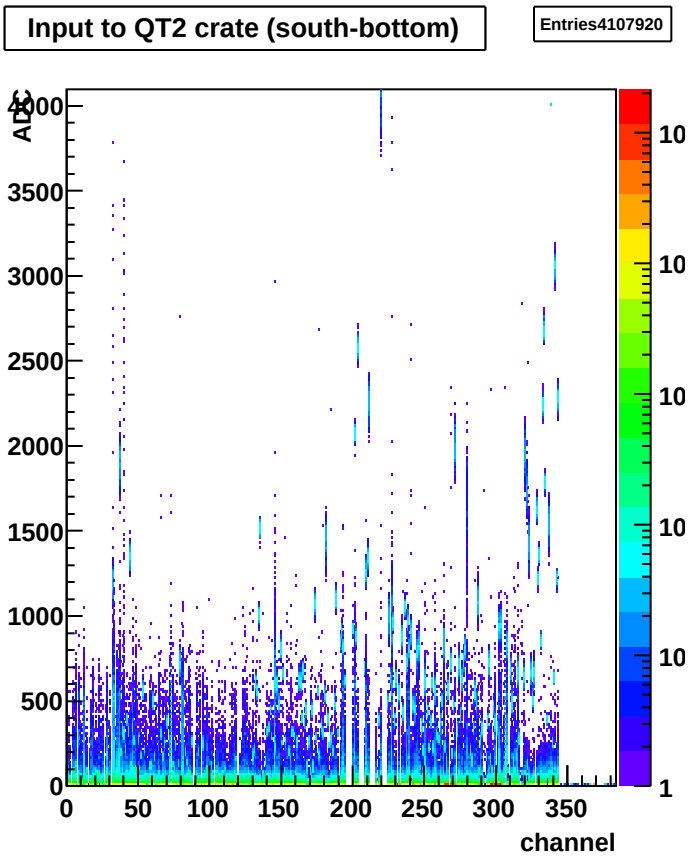

VPD-TAC-E
Entries 315275
Mean 1329
RMS 152.5

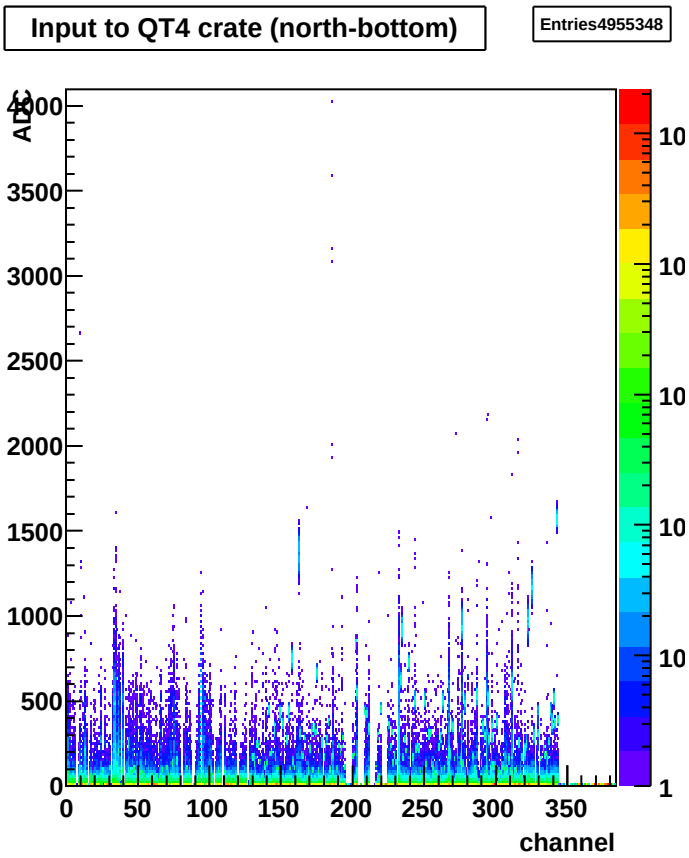

VPD-TAC-W
Entries 307034
Mean 1436
RMS 165.8

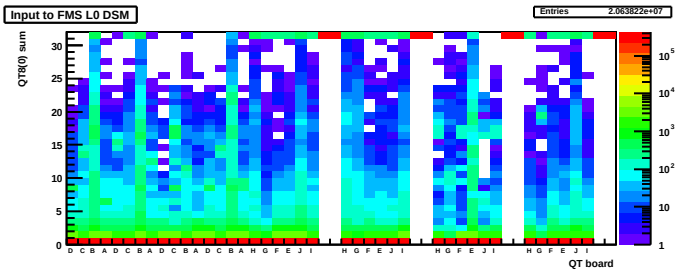

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 261168
Mean 3987
RMS 119.4

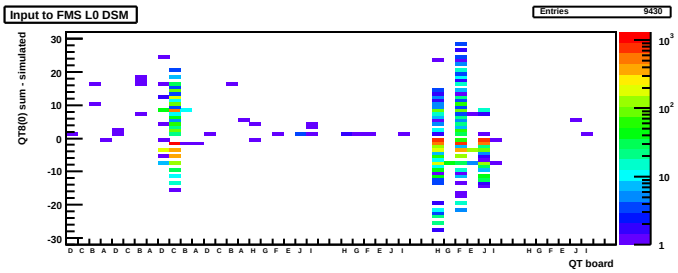

Input to QT1 crate (south-top)
Entries6536255
ADC
channel

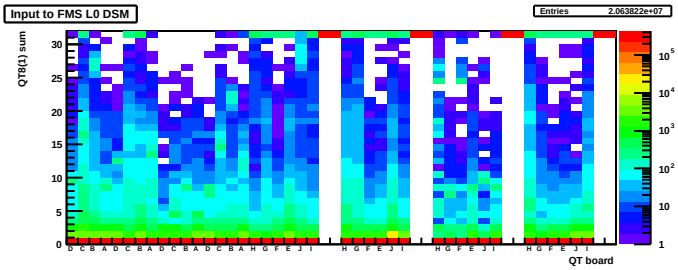

Input to QT3 crate (north-top)
Entries3632467
ADC
channel

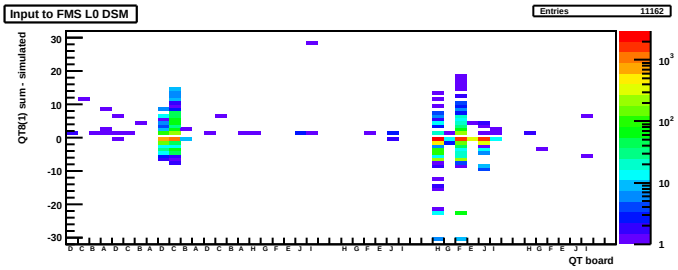

Input to QT2 crate (south-bottom)
Entries4107920
ADC
channel

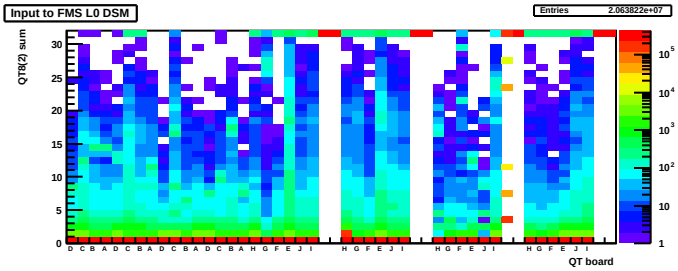

Input to QT4 crate (north-bottom)
Entries4955348
ADC
channel

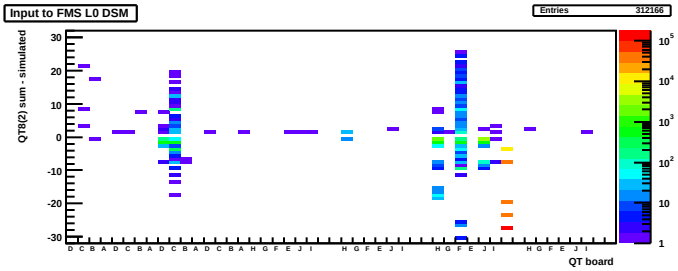

Input to FMS L0 DSM
Entries 2.063822e+07
QT8(0) sum
QT board

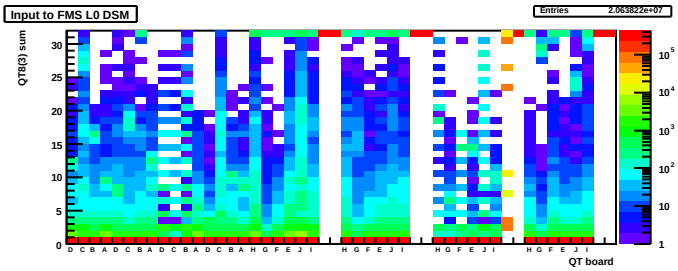

Input to FMS L0 DSM
Entries 9430
QT8(0) sum - simulated
QT board

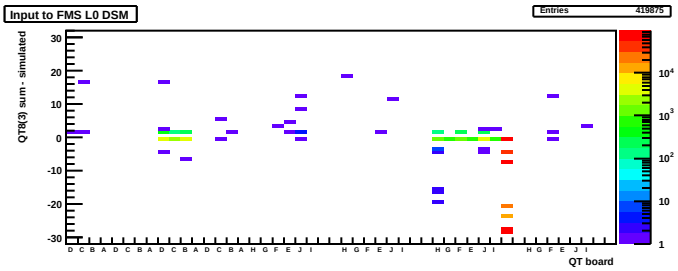

Input to FMS L0 DSM
Entries 2.063822e+07
QT8(1) sum
QT board

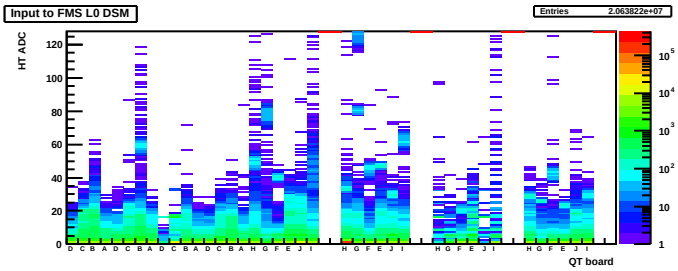

Input to FMS L0 DSM
Entries 11162
QT8(1) sum - simulated
QT board

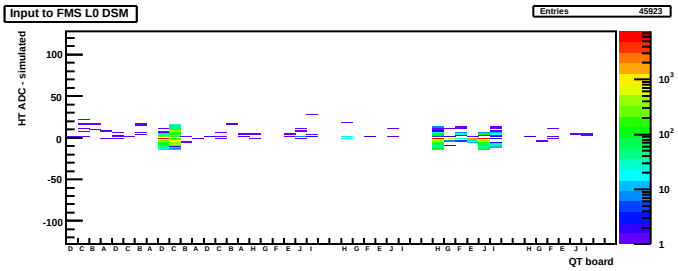

Input to FMS L0 DSM
Entries 2.063822e+07
QT8(2) sum
QT board

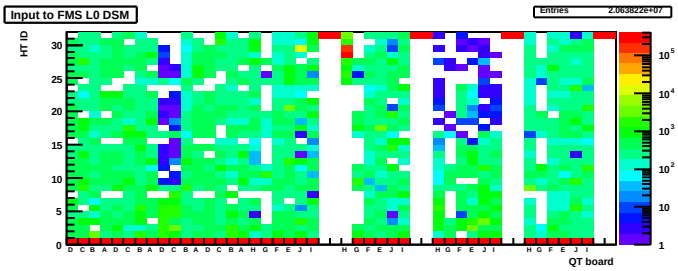

Input to FMS L0 DSM
Entries 312166
QT8(2) sum - simulated
QT board

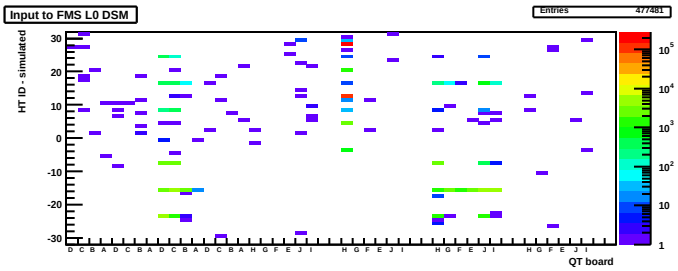

Input to FMS L0 DSM
Entries 2.063822e+07
QT8(3) sum
QT board

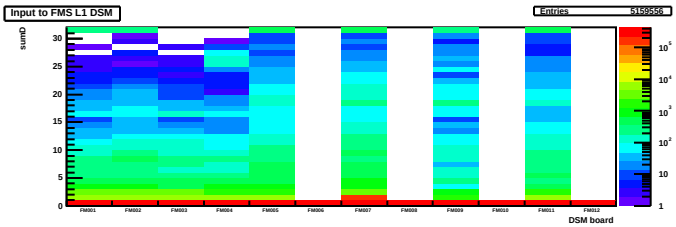

Input to FMS L0 DSM
Entries 419875
QT8(3) sum - simulated
QT board

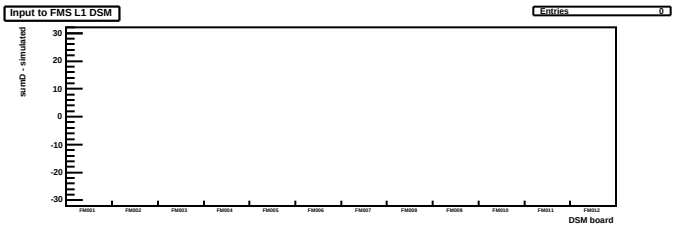

Input to FMS L0 DSM
Entries 2.063822e+07
HT ADC
QT board

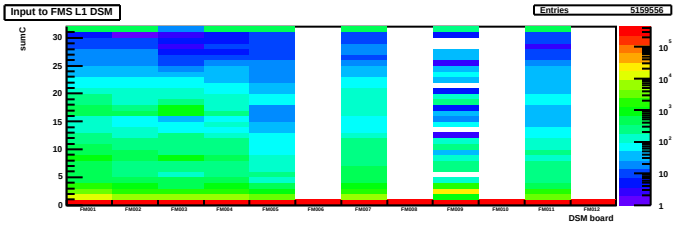

Input to FMS L0 DSM
Entries 45923
HT ADC - simulated
QT board

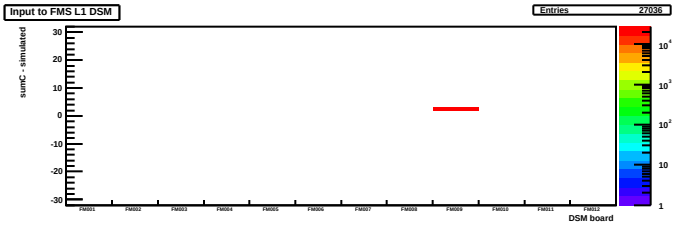

Input to FMS L0 DSM
Entries 2.063822e+07
HT ID
QT board

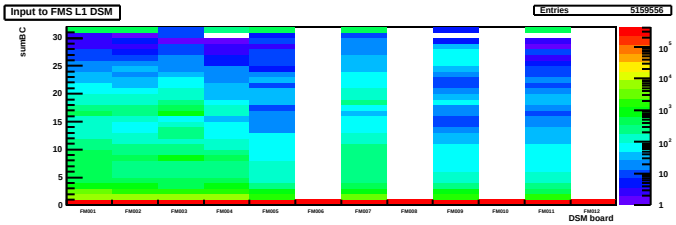

Input to FMS L0 DSM
Entries 477481
HT ID - simulated
QT board

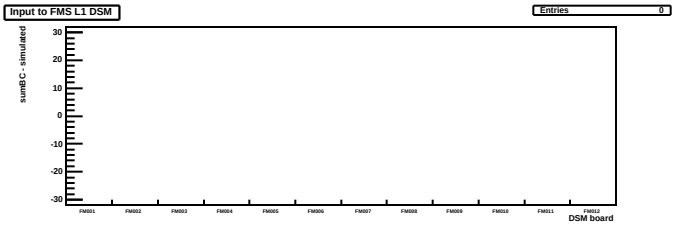

Input to FMS L1 DSM
Entries 5159556
sumD
DSM board

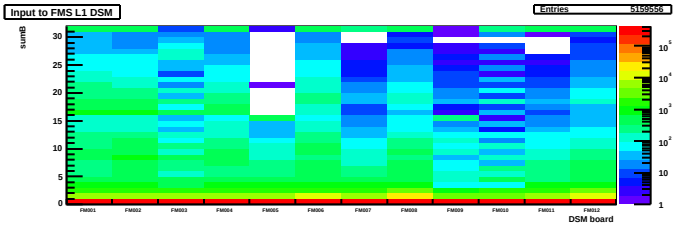

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

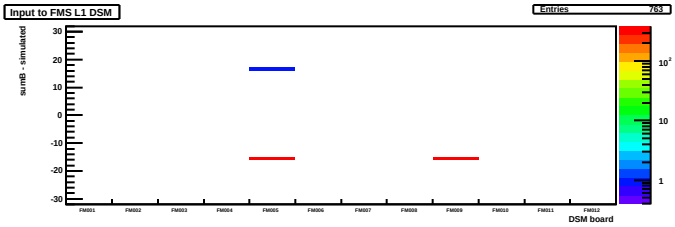

Input to FMS L1 DSM
Entries 5159556
sumC
DSM board

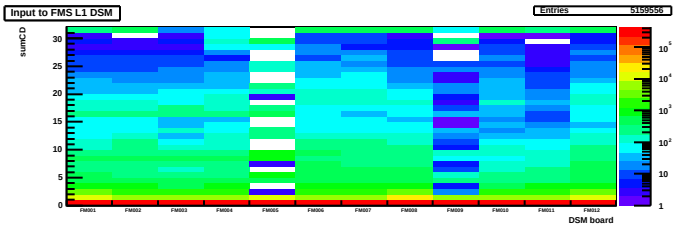

Input to FMS L1 DSM
Entries 27036
sumC - simulated
DSM board

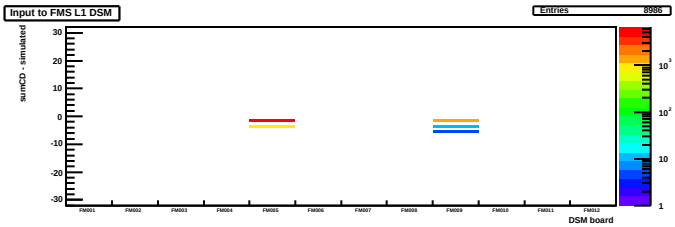

Input to FMS L1 DSM
Entries 5159556
sumBC
DSM board

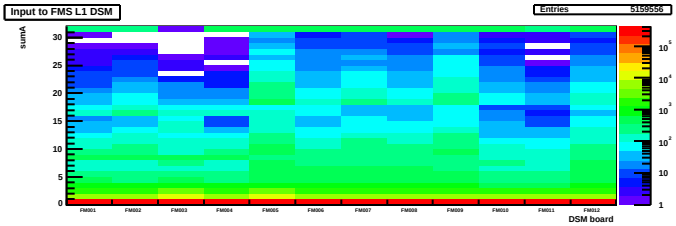

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

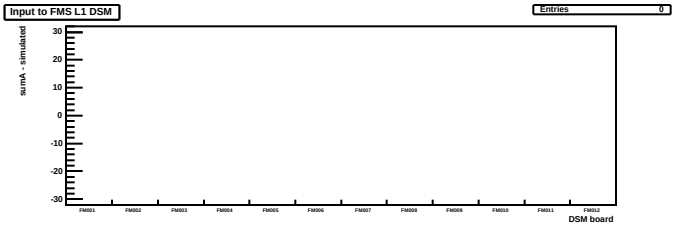

Input to FMS L1 DSM
Entries 5159556
sumB
DSM board

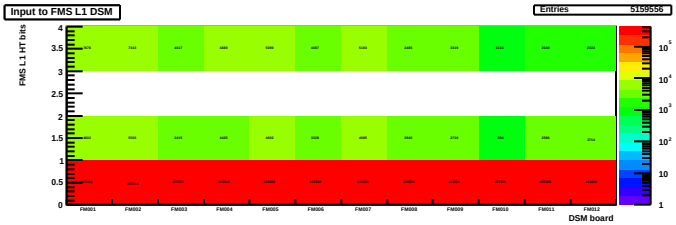

Input to FMS L1 DSM
Entries 763
sumB - simulated
DSM board

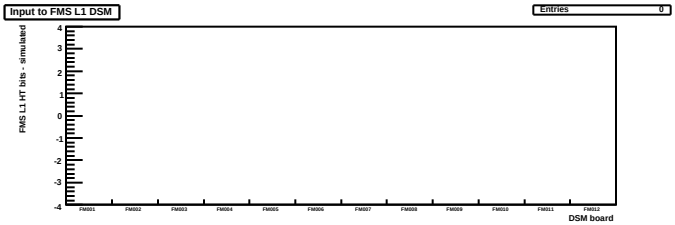

Input to FMS L1 DSM
Entries 5159556
sumCD
DSM board

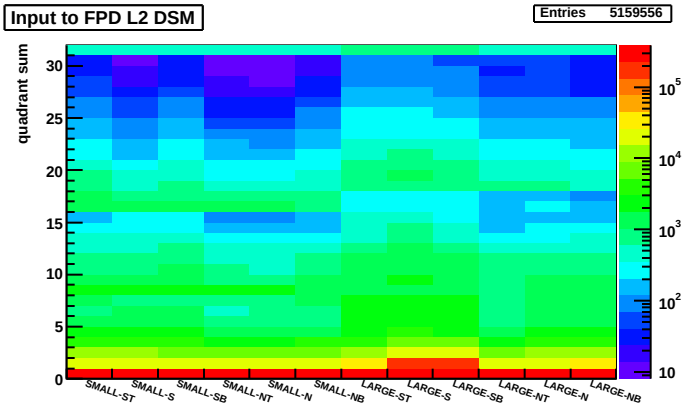

Input to FMS L1 DSM
Entries 8986
sumCD - simulated
DSM board

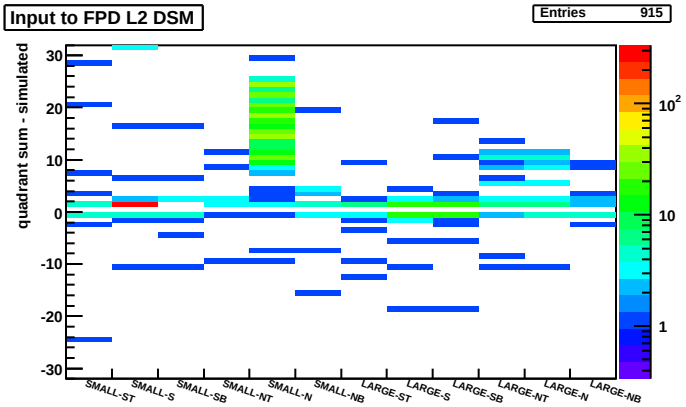

Input to FMS L1 DSM
Entries 5159556
sumA
DSM board

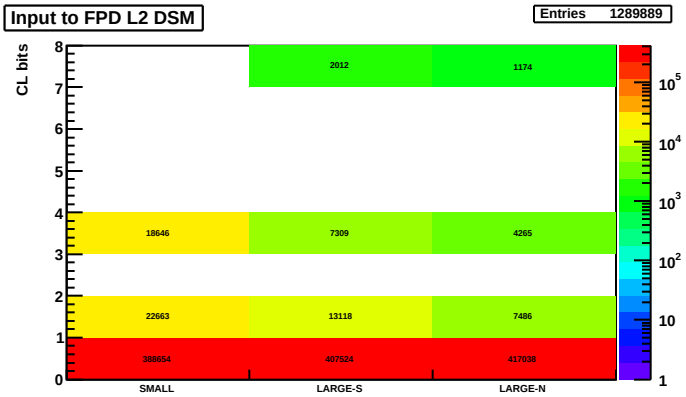

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

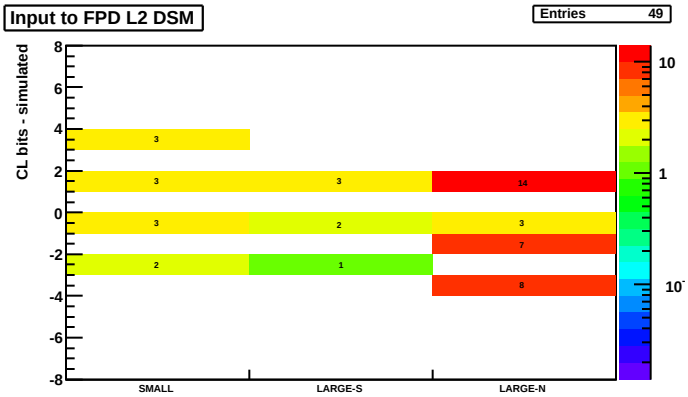

Input to FMS L1 DSM
Entries 5159556
FMS L1 HT bits
DSM board

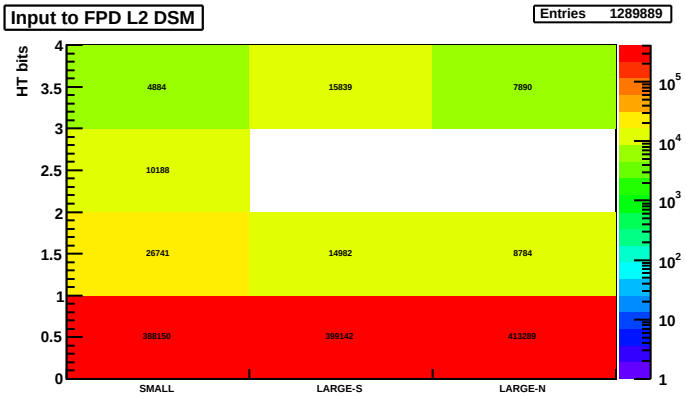

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

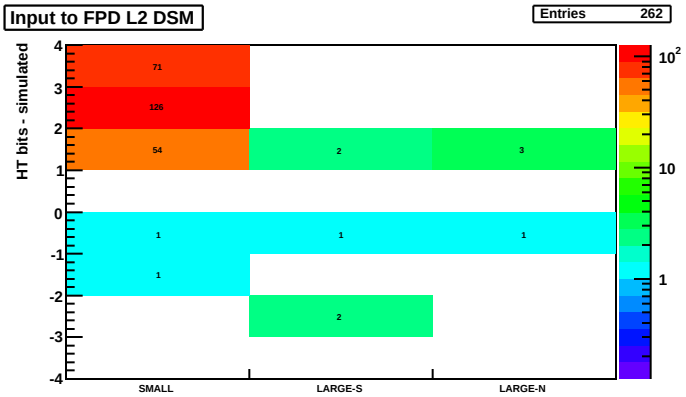

Input to FPD L2 DSM
Entries 5159556
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

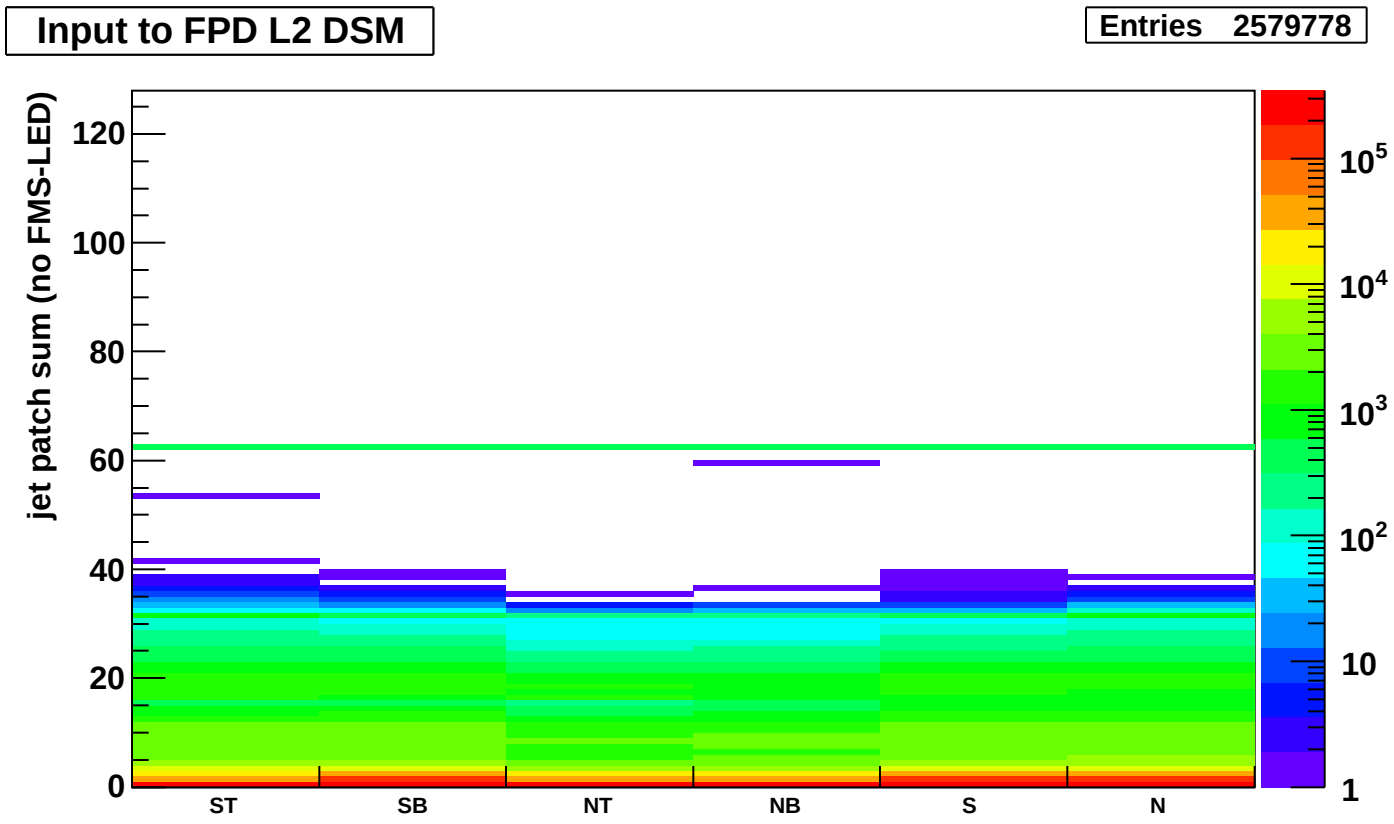

Input to FPD L2 DSM
Entries 915
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

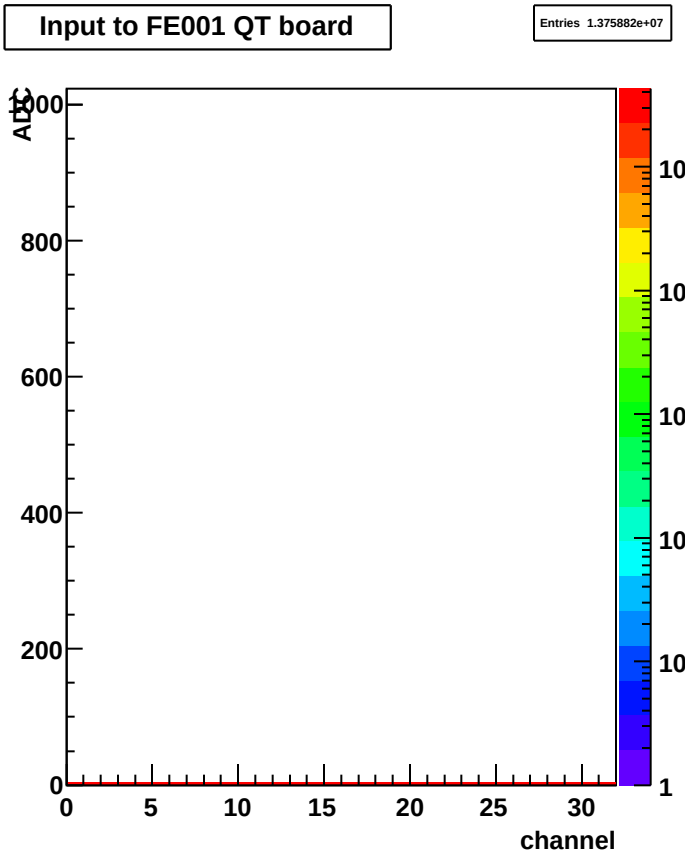

Input to FPD L2 DSM
Entries 1289889
CL bits
2012
1174
18646
7309
4265
22663
13118
7486
388654
407524
417038
SMALL
LARGE-S
LARGE-N

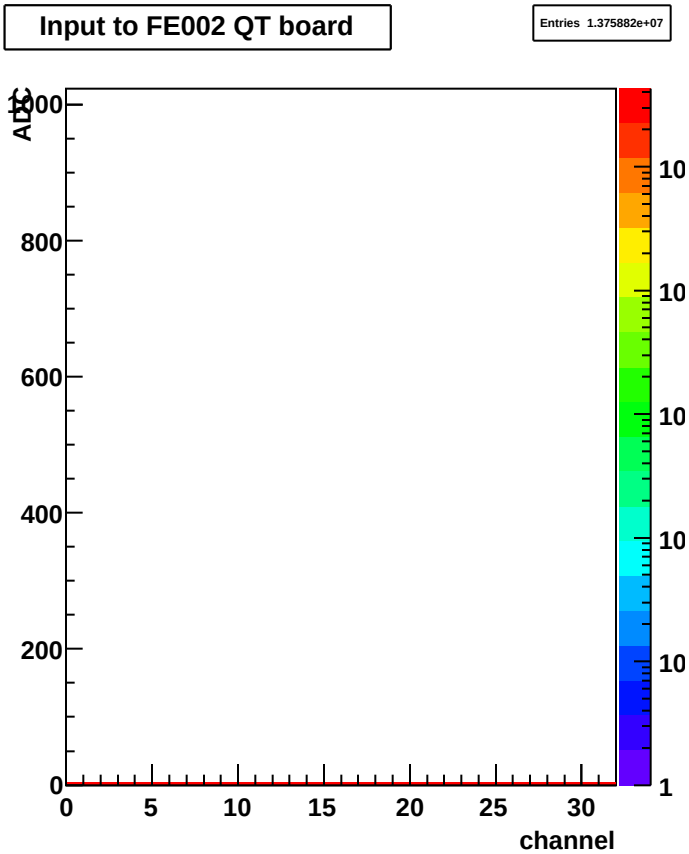

Input to FPD L2 DSM
Entries 49
CL bits - simulated
3
3
3
14
3
2
3
7
2
1
8
SMALL
LARGE-S
LARGE-N

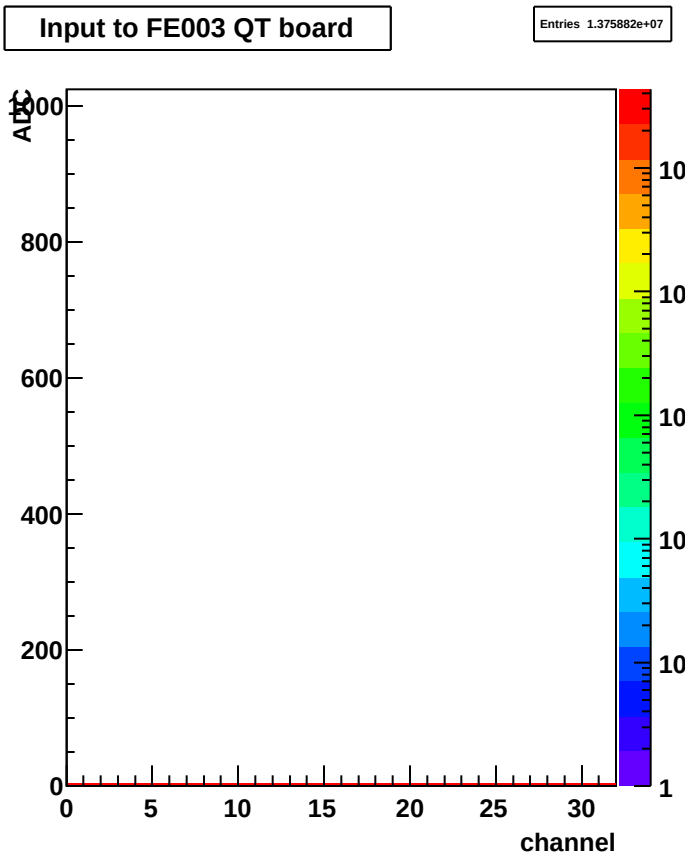

Input to FPD L2 DSM
Entries 1289889
HT bits
4884
15839
7890
10188
26741
14982
8784
388150
399142
413289
SMALL
LARGE-S
LARGE-N

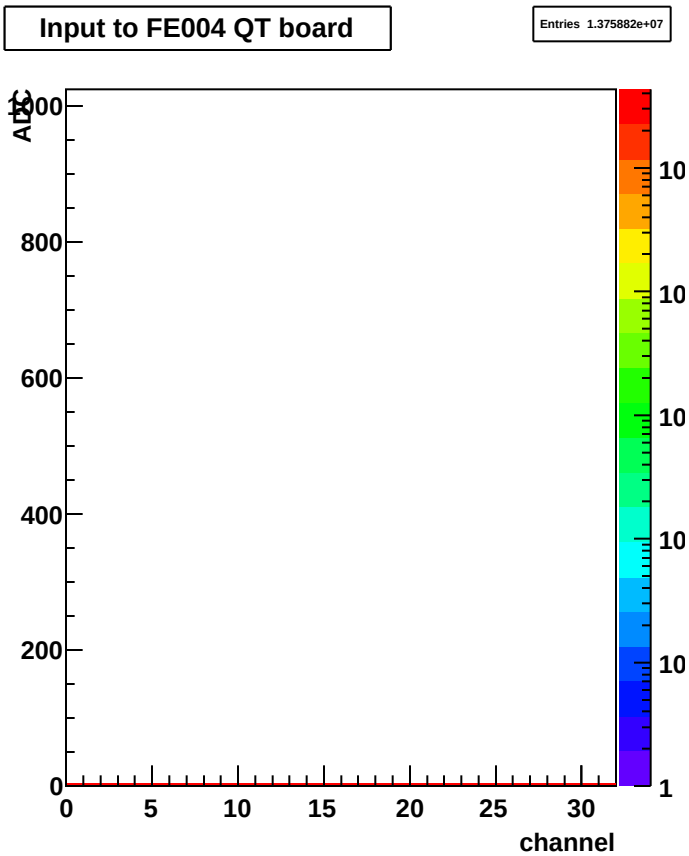

Input to FPD L2 DSM
Entries 262
HT bits - simulated
71
126
54
2
3
1
1
1
1
2
SMALL
LARGE-S
LARGE-N

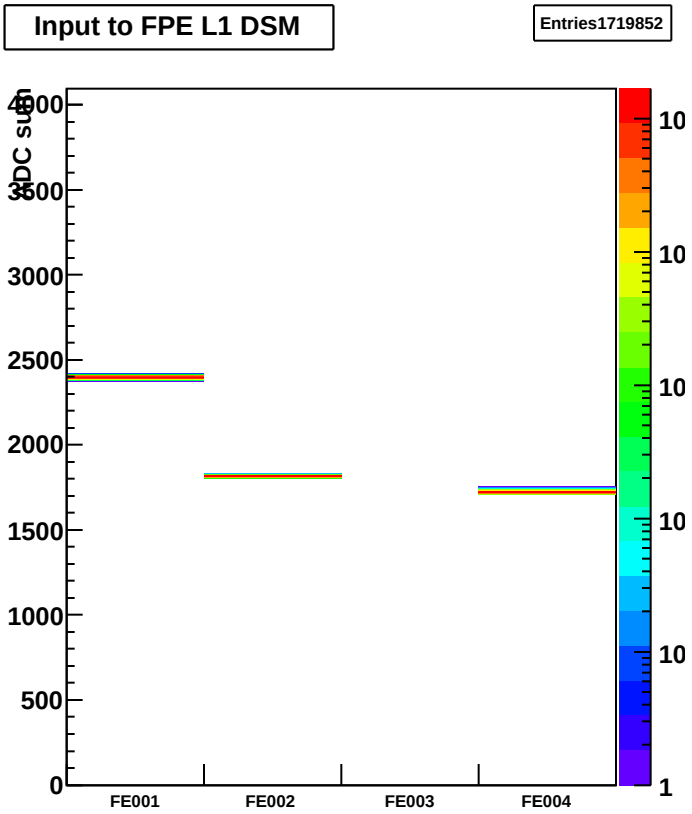

Input to FPD L2 DSM
Entries 2579778
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

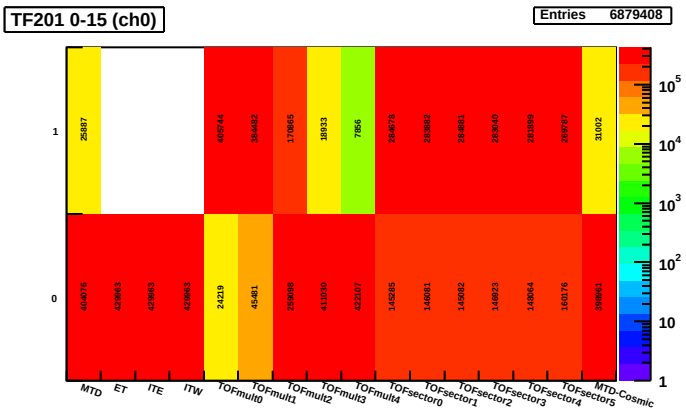

Input to FE001 QT board
Entries 1.375882e+07
ADC
channel

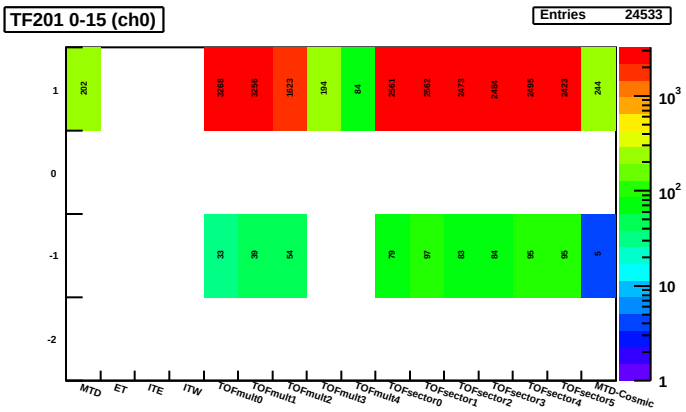

Input to FE002 QT board
Entries 1.375882e+07
ADC
channel

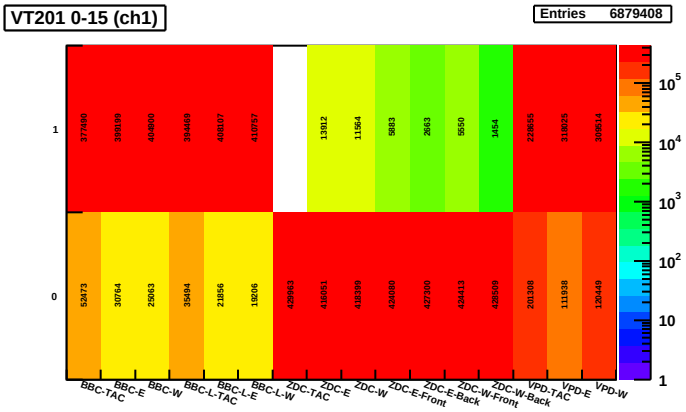

Input to FE003 QT board
Entries 1.375882e+07
ADC
channel

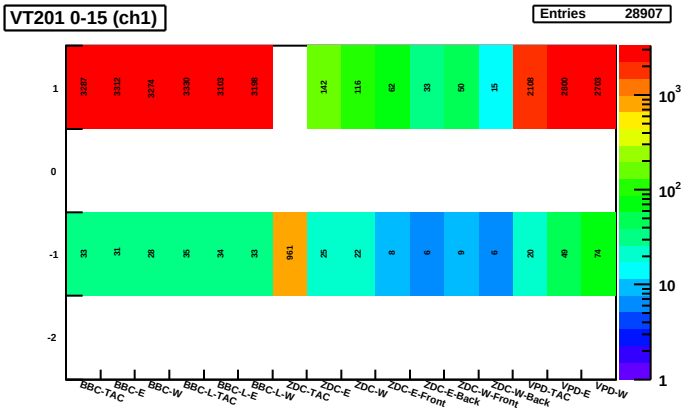

Input to FE004 QT board
Entries 1.375882e+07
ADC
channel


Input to FPE L1 DSM
Entries1719852
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 6879408
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 24533
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 6879408
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)
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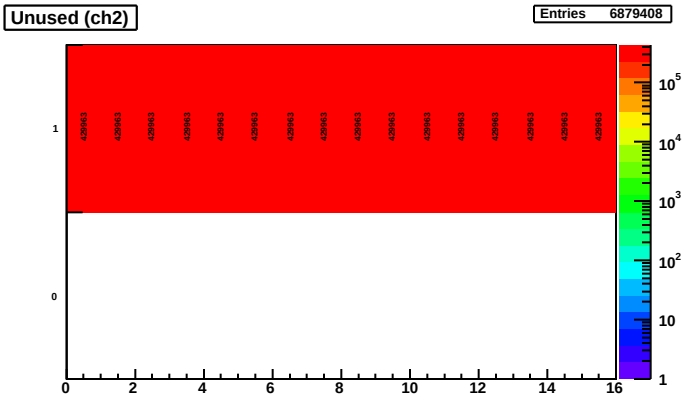
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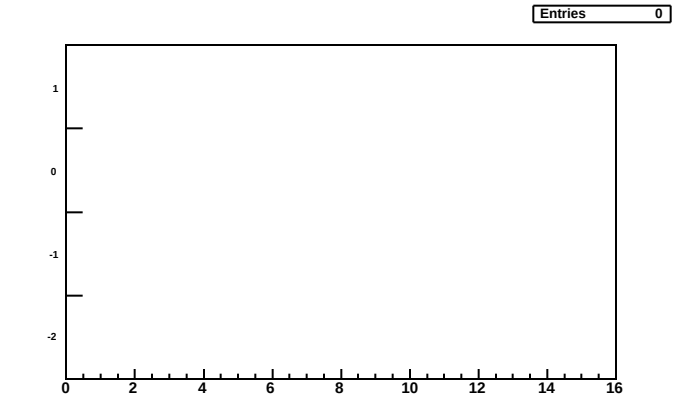
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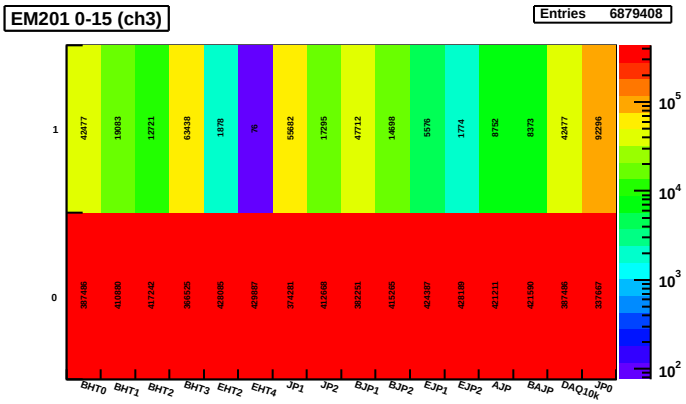
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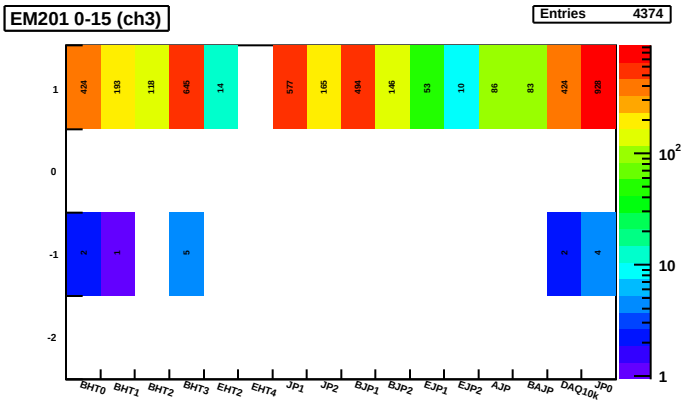
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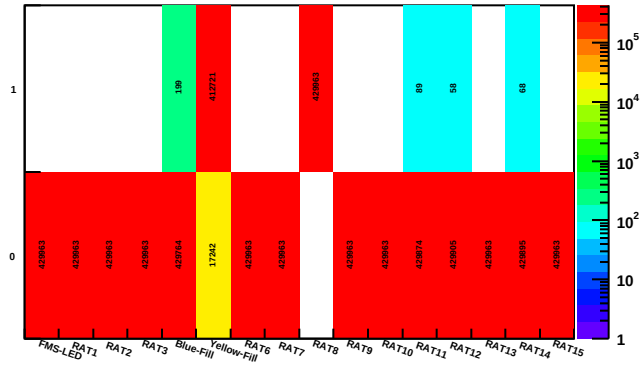
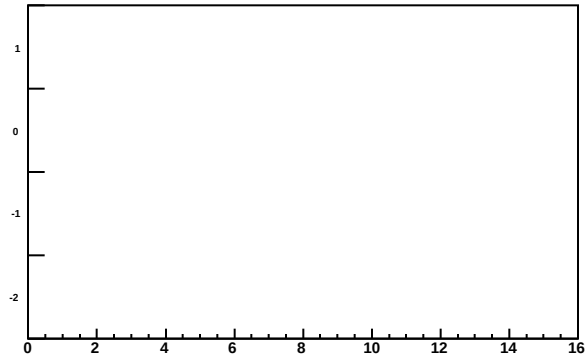
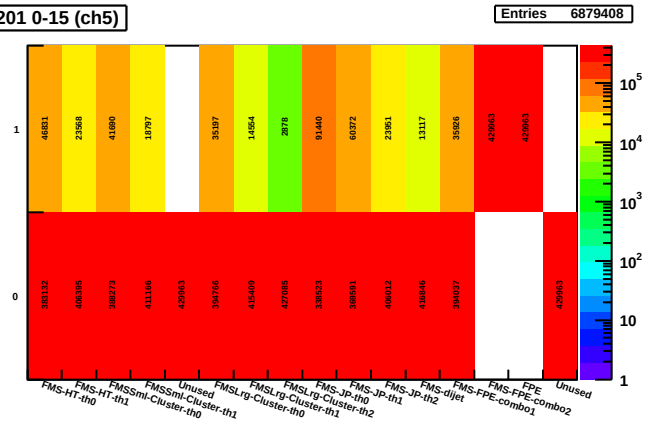
RAT board (ch4)

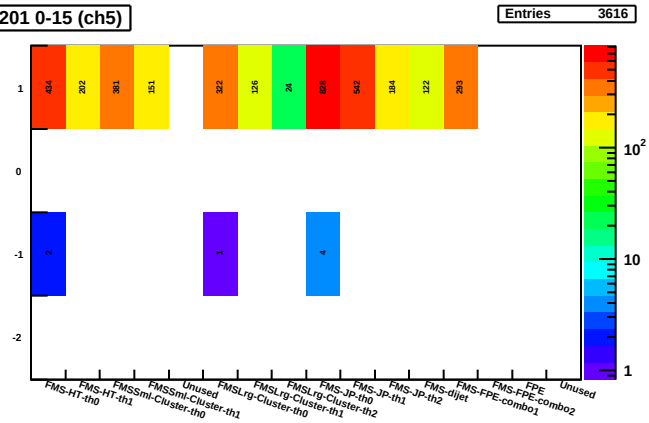




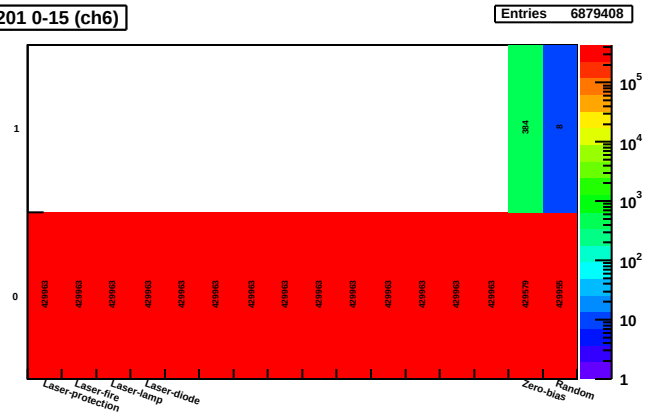
FP201 0-15 (ch5)

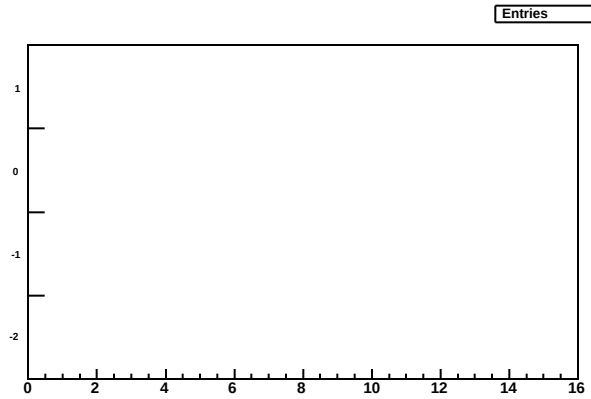
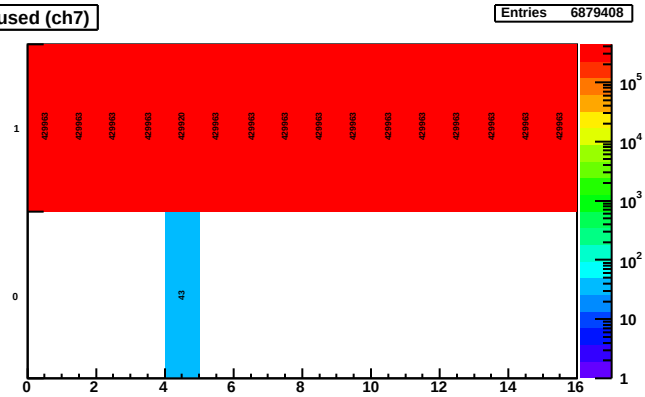
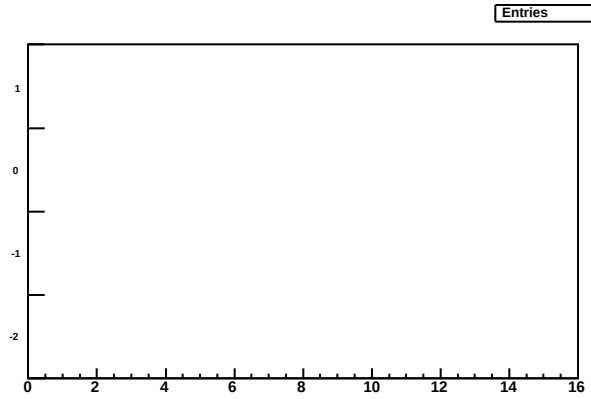


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)