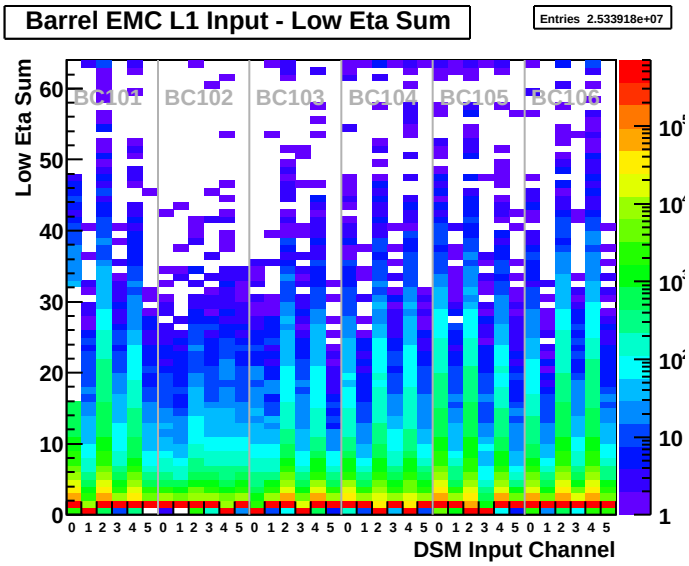
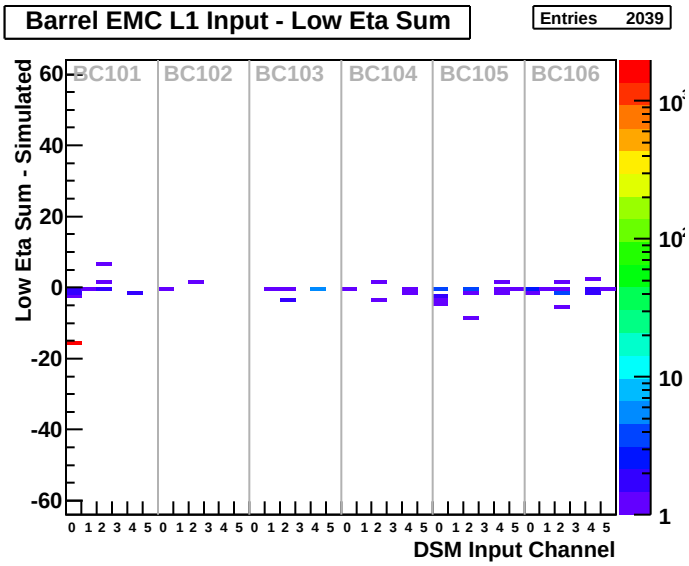
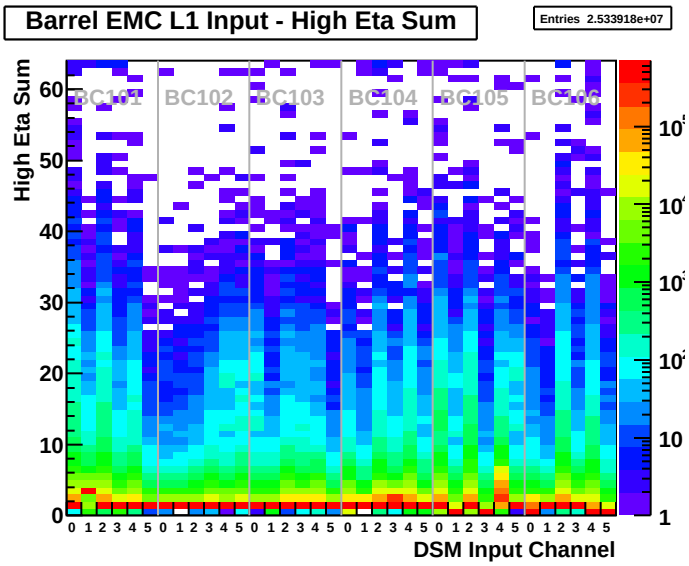
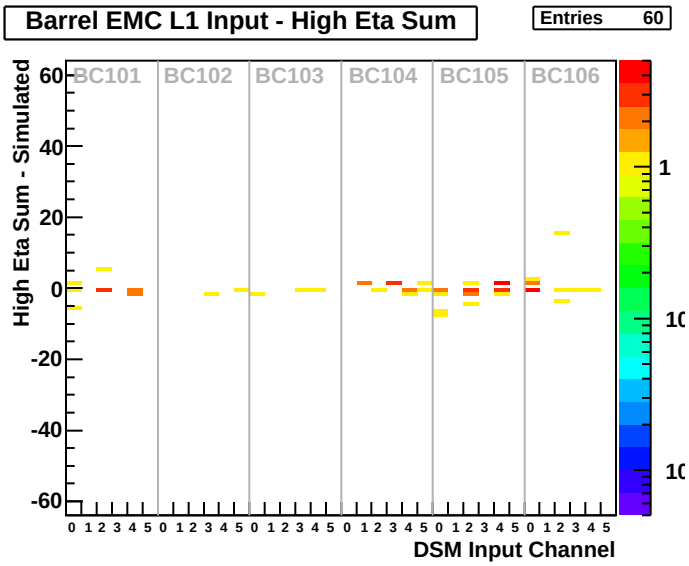
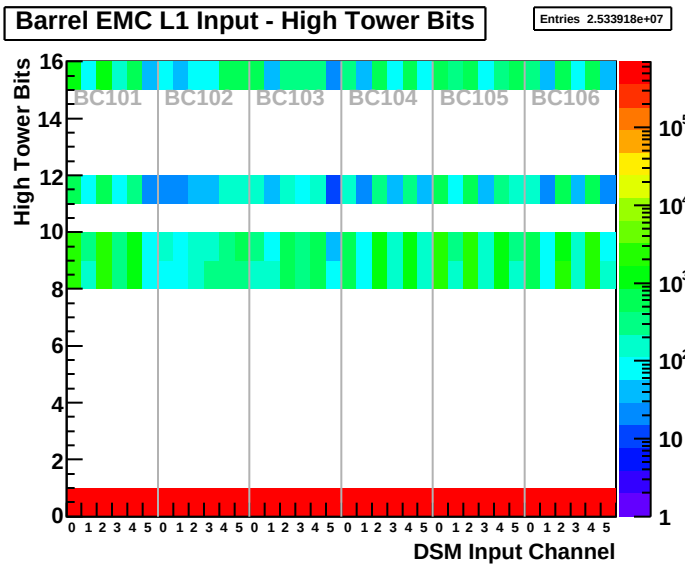
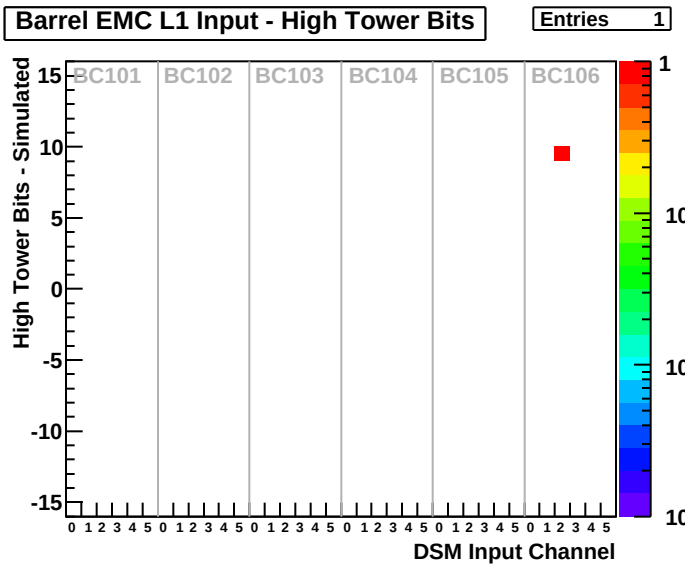

Barrel EMC L1 Input - Low Eta Sum
Entries 2.533918e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

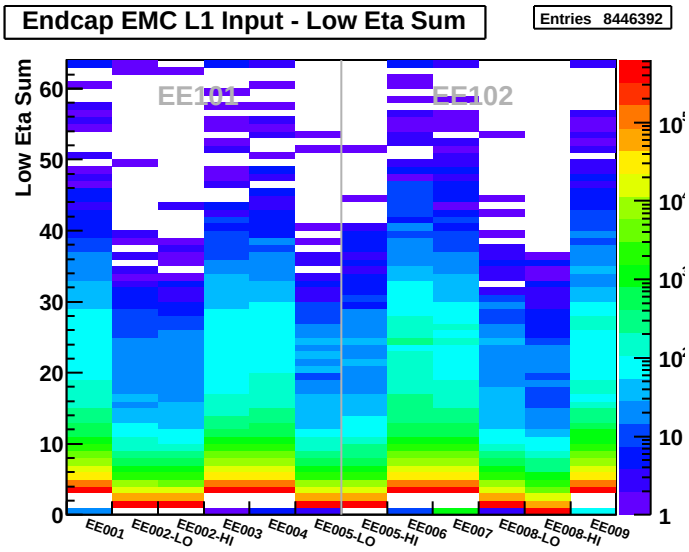

Barrel EMC L1 Input - Low Eta Sum
Entries 2039
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

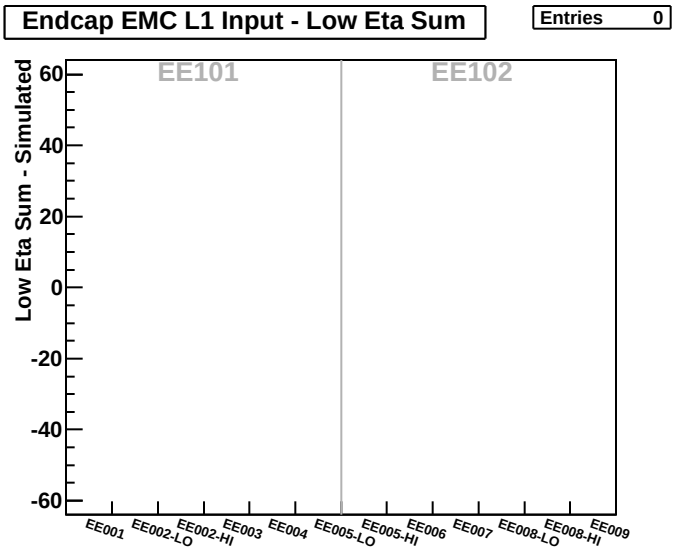

Barrel EMC L1 Input - High Eta Sum
Entries 2.533918e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

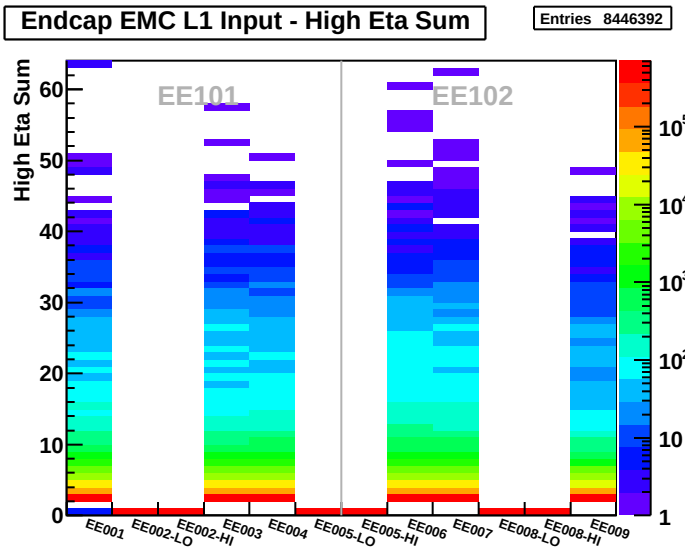

Barrel EMC L1 Input - High Eta Sum
Entries 60
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

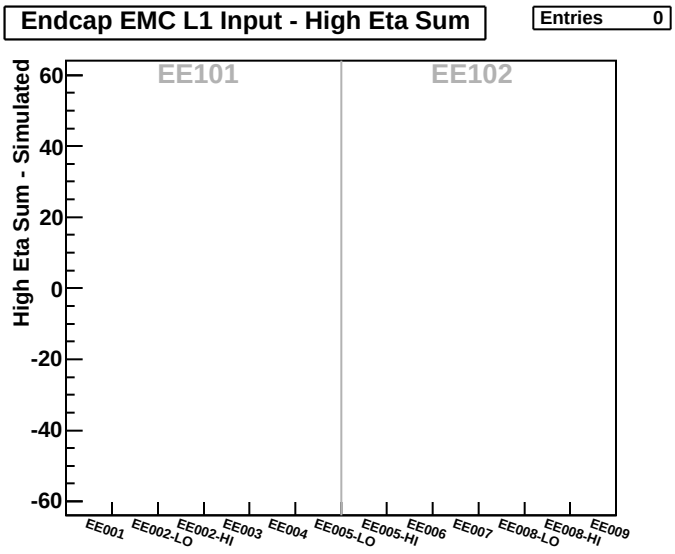

Barrel EMC L1 Input - High Tower Bits
Entries 2.533918e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

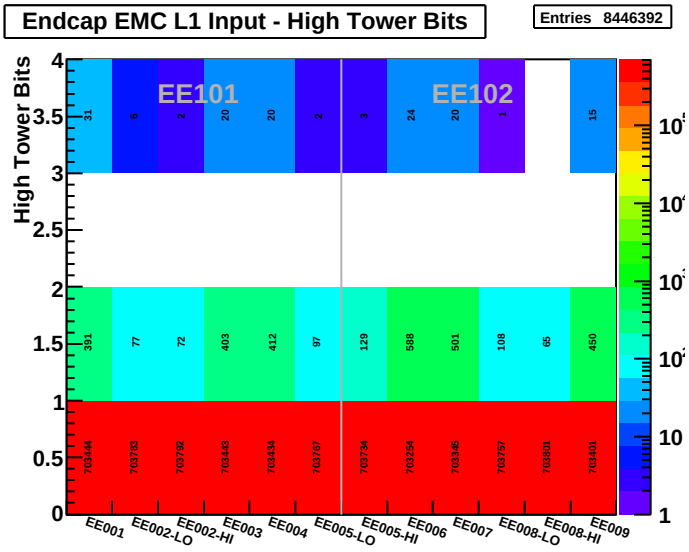

Barrel EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

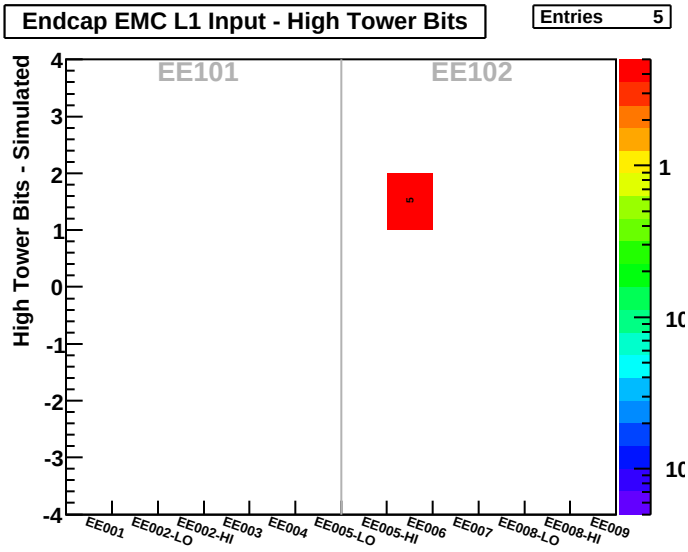

Endcap EMC L1 Input - Low Eta Sum
Entries 8446392
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

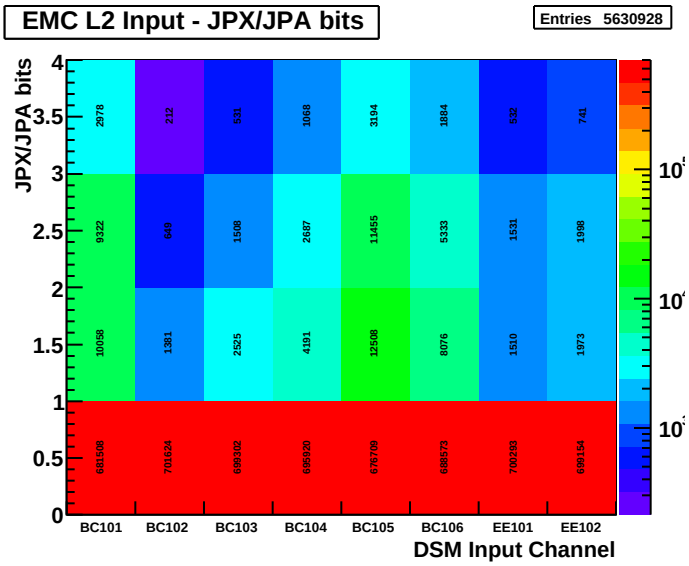

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

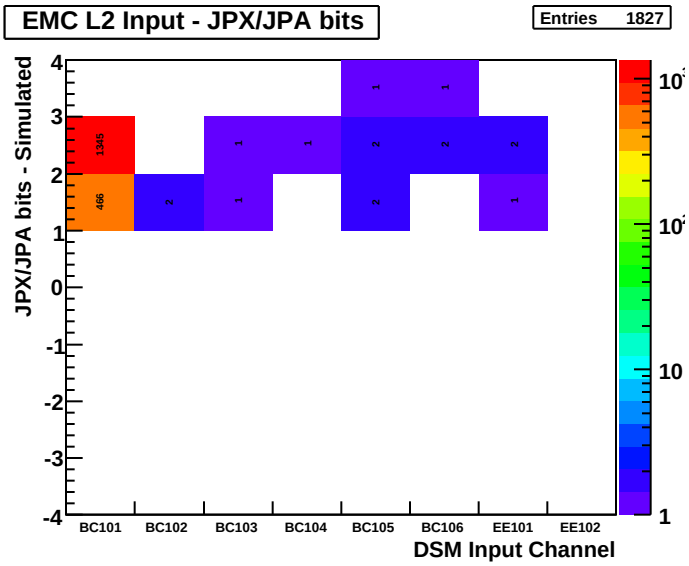

Endcap EMC L1 Input - High Eta Sum
Entries 8446392
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

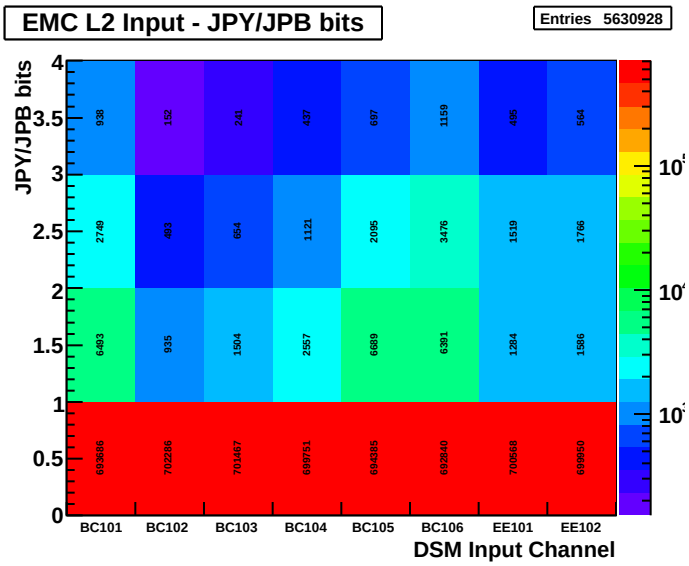

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

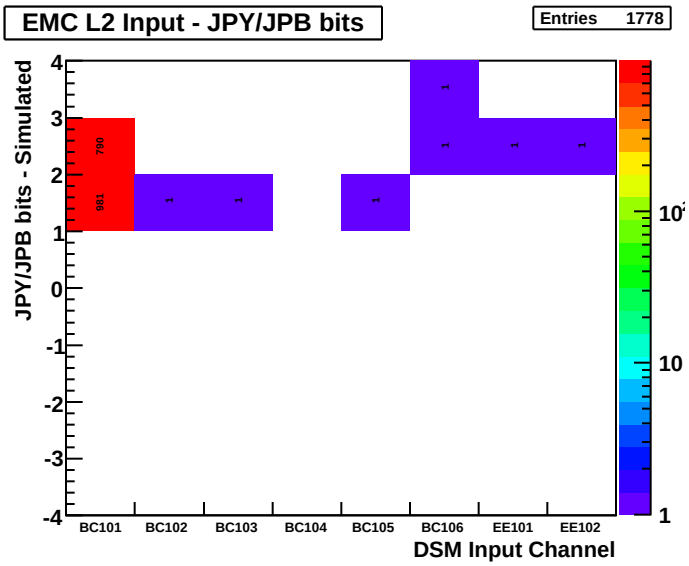

Endcap EMC L1 Input - High Tower Bits
Entries 8446392
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

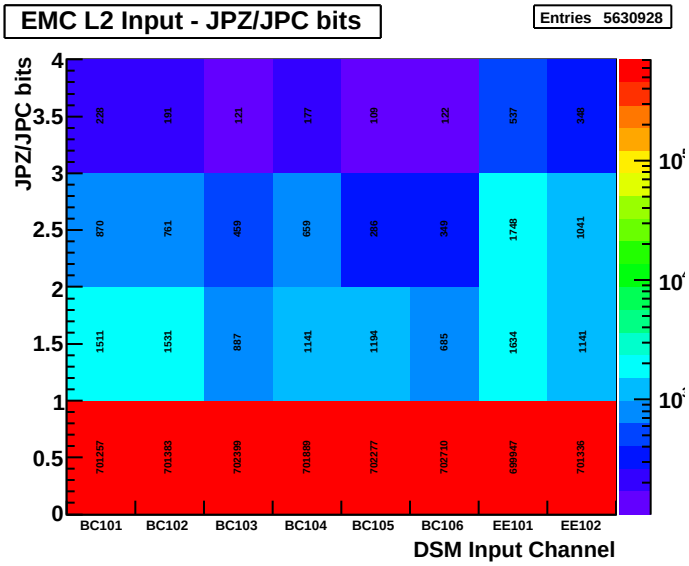

Endcap EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

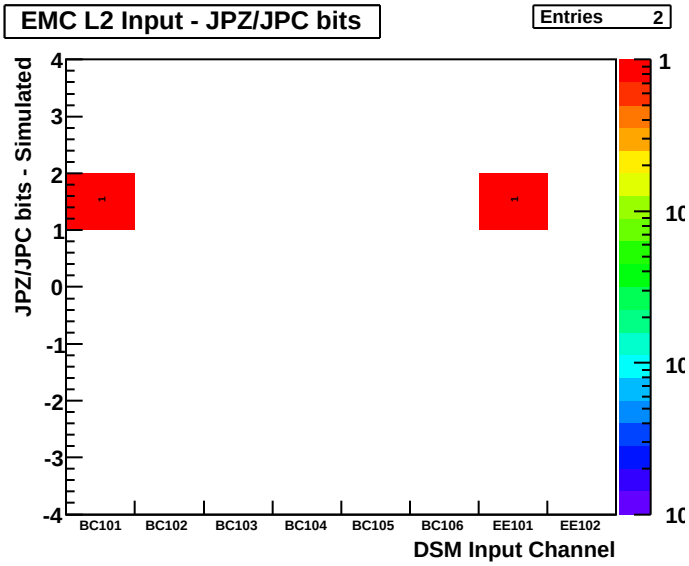

EMC L2 Input - JPX/JPA bits
Entries 5630928
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2978 212 531 1068 3194 1884 532 741
9322 649 1508 2687 11455 5333 1531 1998
10058 1381 2525 4191 12508 8076 1510 1973
681508 701624 699302 695920 676709 689573 700293 699154

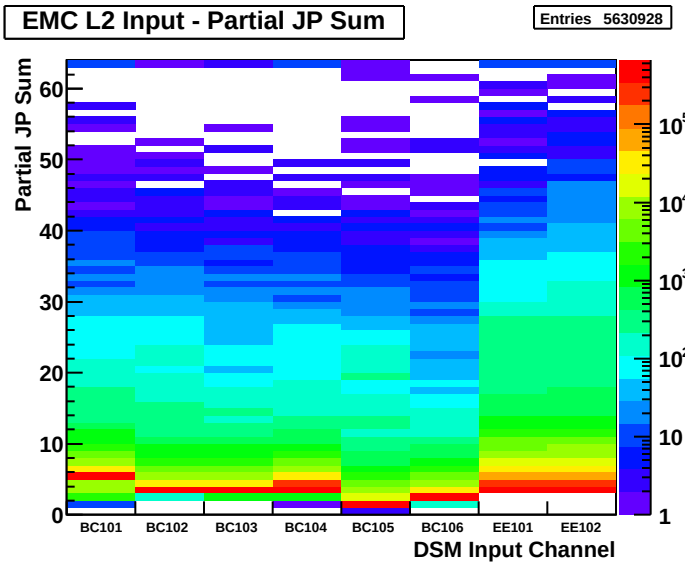

EMC L2 Input - JPX/JPA bits
Entries 1827
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1345
466 2

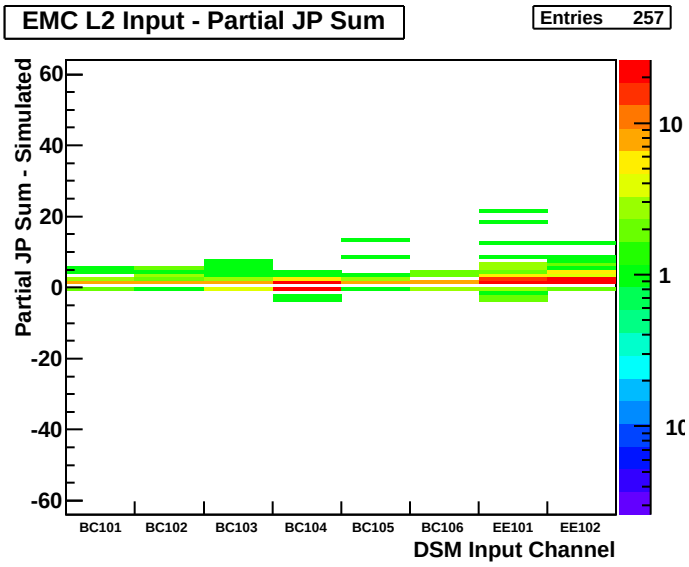

EMC L2 Input - JPY/JPB bits
Entries 5630928
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
938 152 241 437 697 1159 495 564
2749 493 654 1121 2095 3476 1519 1766
6493 935 1504 2557 6689 6391 1284 1586
693686 702286 701467 699751 694385 692840 700568 699950

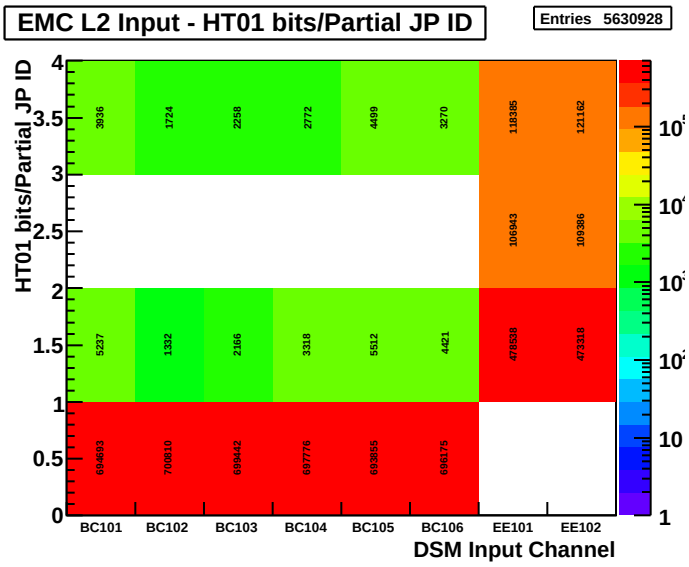

EMC L2 Input - JPY/JPB bits
Entries 1778
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
790
981

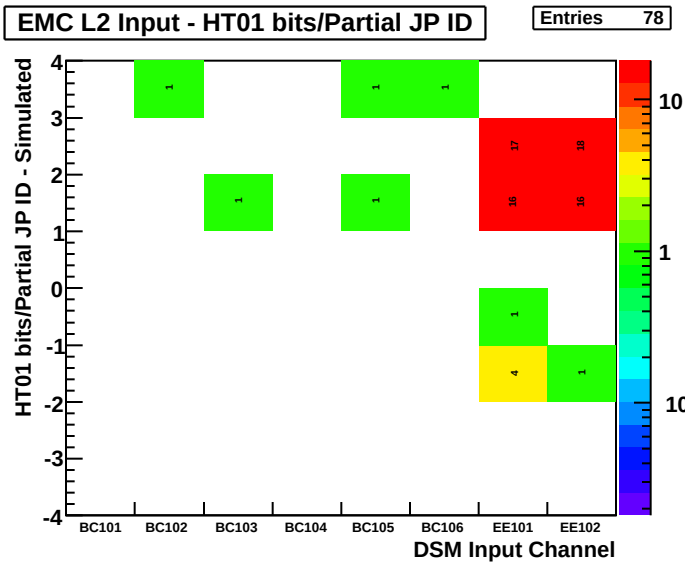

EMC L2 Input - JPZ/JPC bits
Entries 5630928
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
228 191 121 177 109 122 537 348
870 761 459 659 236 349 1748 1041
1511 1531 887 1141 1194 685 1634 1141
701257 701383 702399 701889 702277 702710 699947 701336

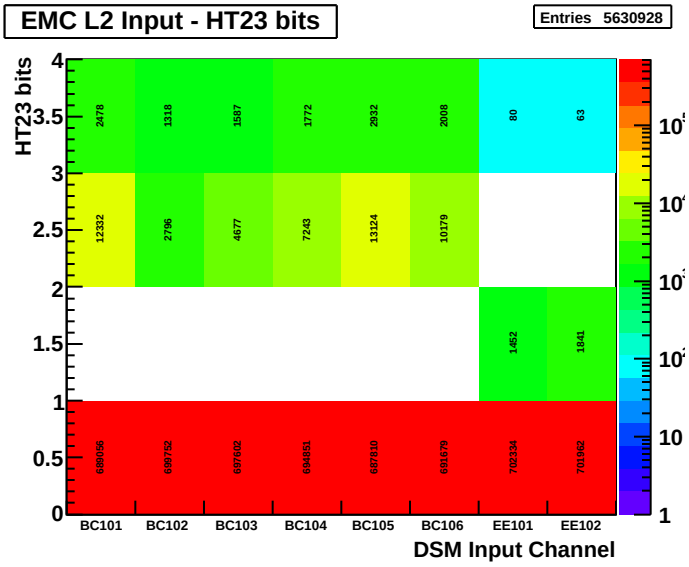

EMC L2 Input - JPZ/JPC bits
Entries 2
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1
1

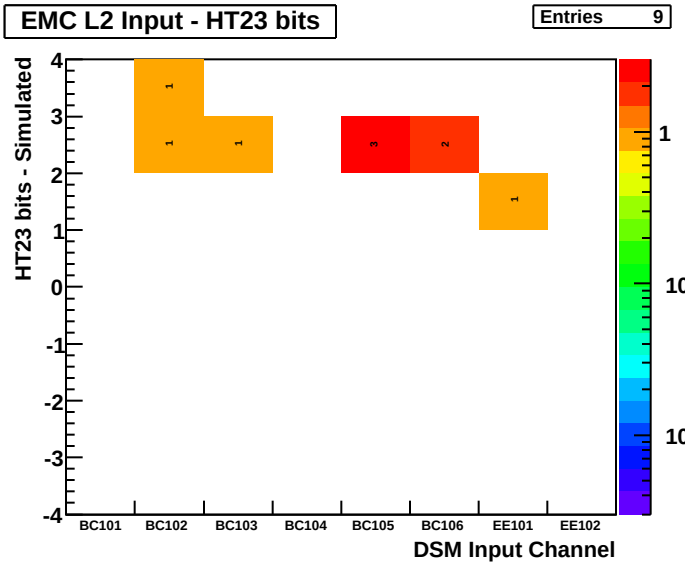

EMC L2 Input - Partial JP Sum
Entries 5630928
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

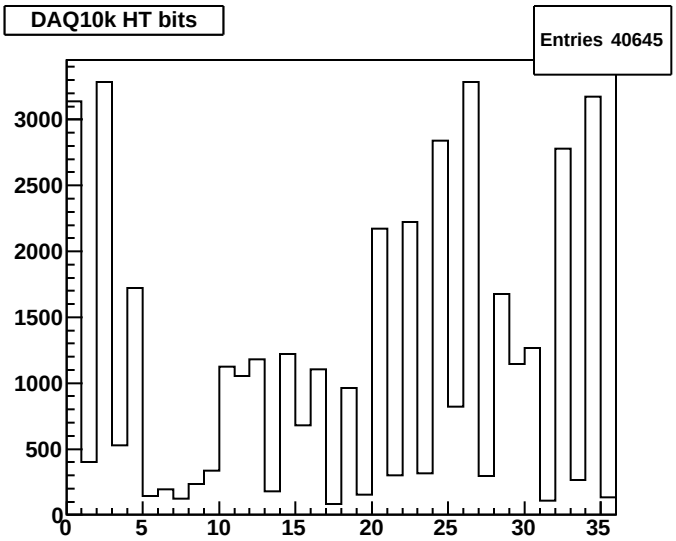

EMC L2 Input - Partial JP Sum
Entries 257
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

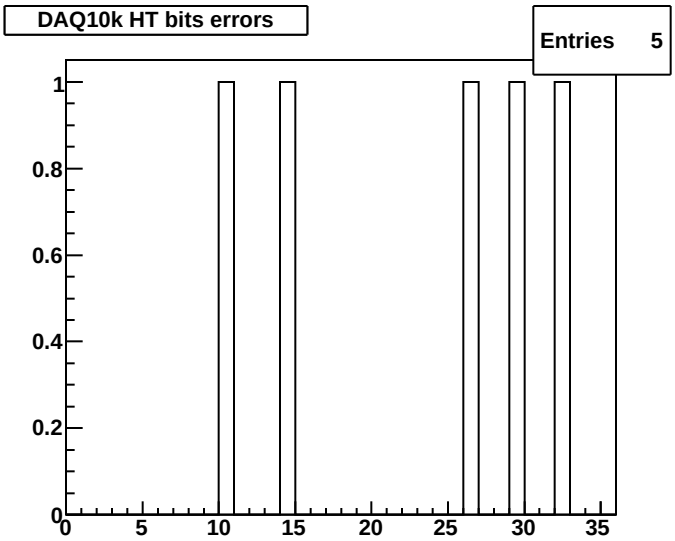

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5630928
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

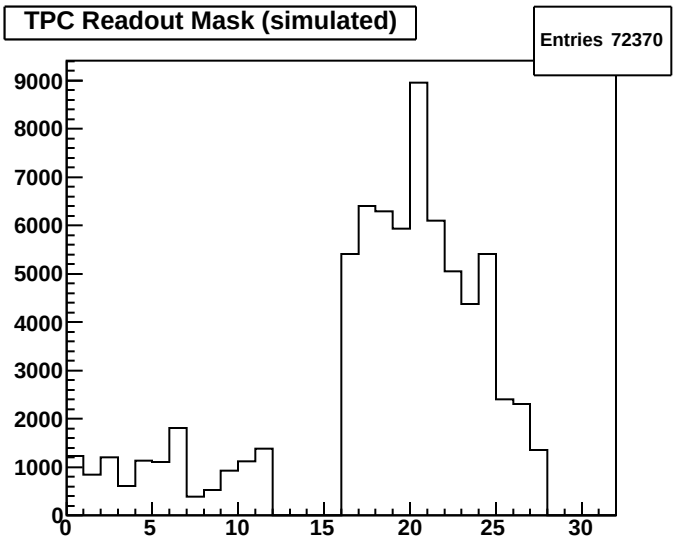

EMC L2 Input - HT01 bits/Partial JP ID
Entries 78
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

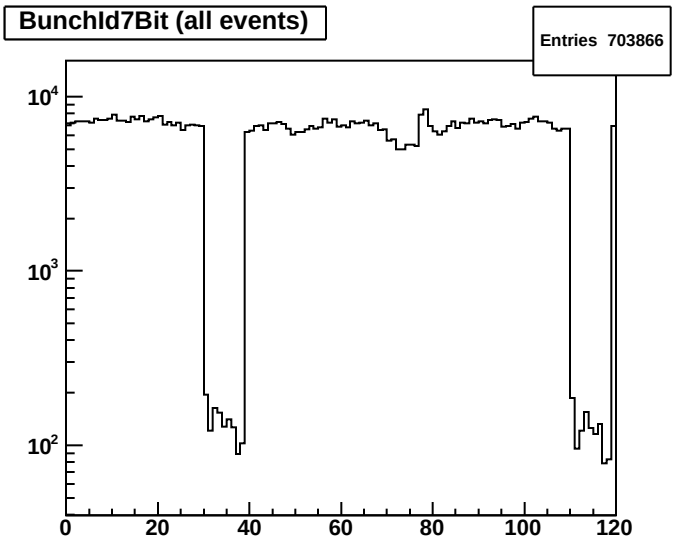

EMC L2 Input - HT23 bits
Entries 5630928
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

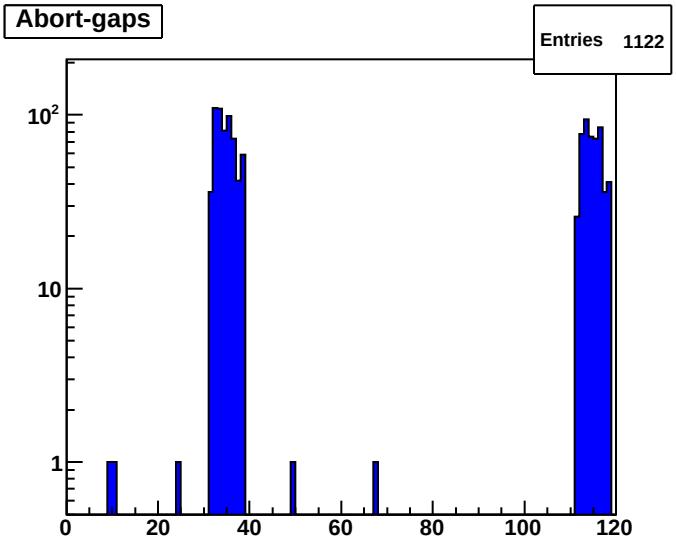

EMC L2 Input - HT23 bits
Entries 9
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

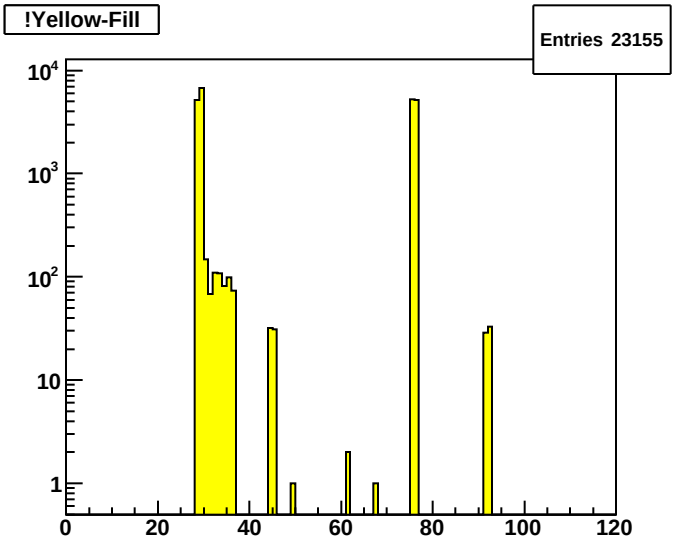

DAQ10k HT bits
Entries 40645

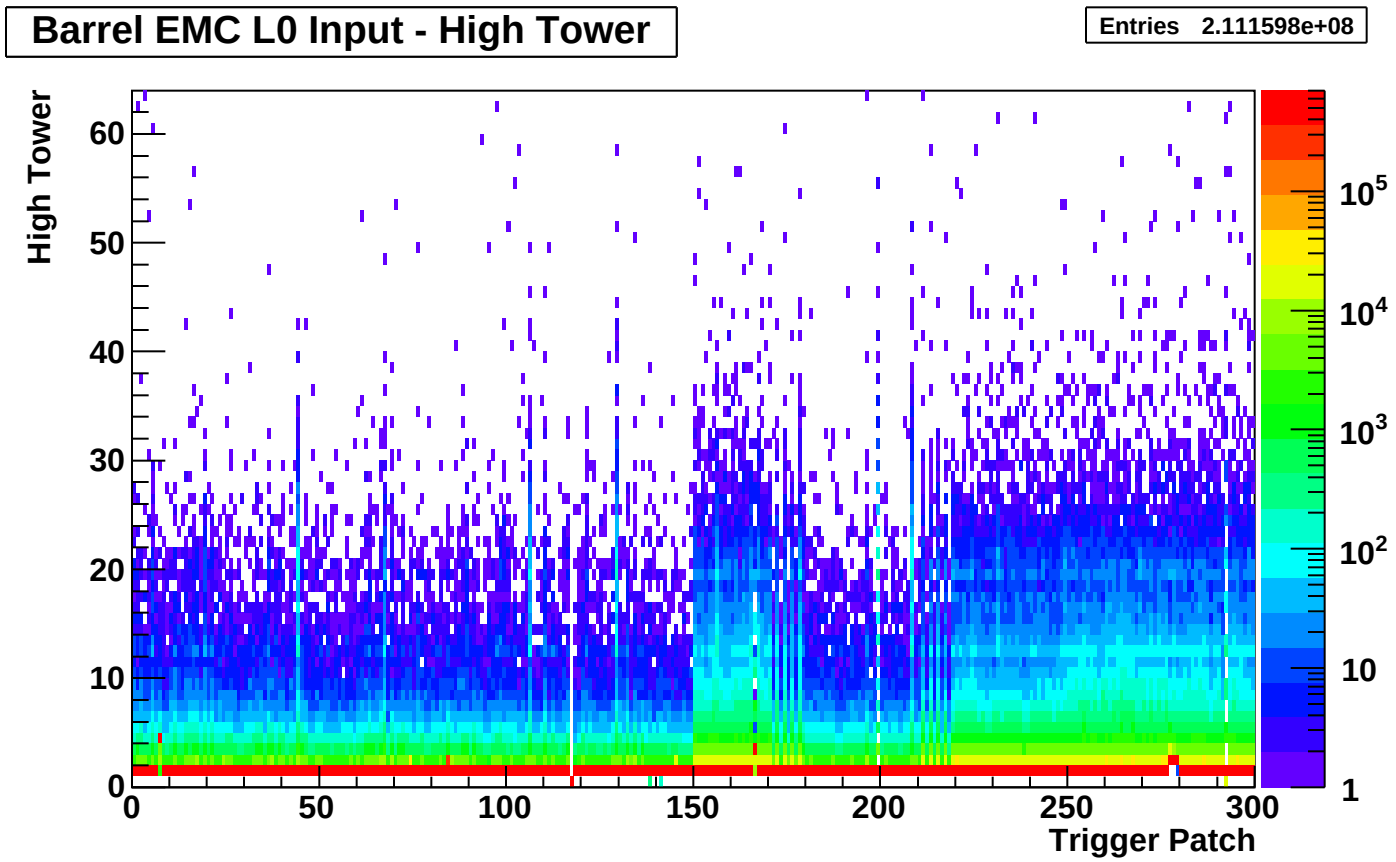

DAQ10k HT bits errors
Entries 5

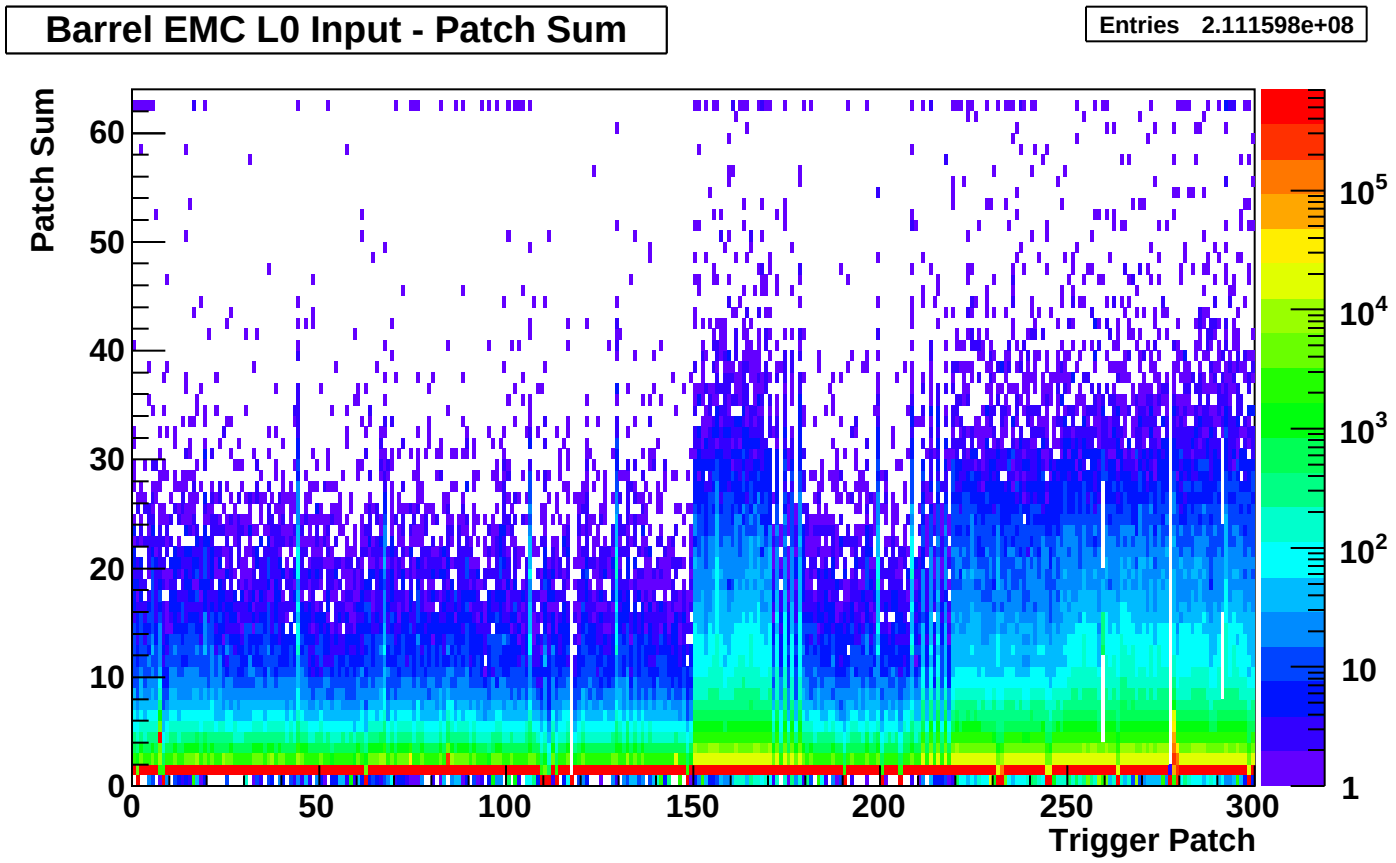

TPC Readout Mask (simulated)
Entries 72370

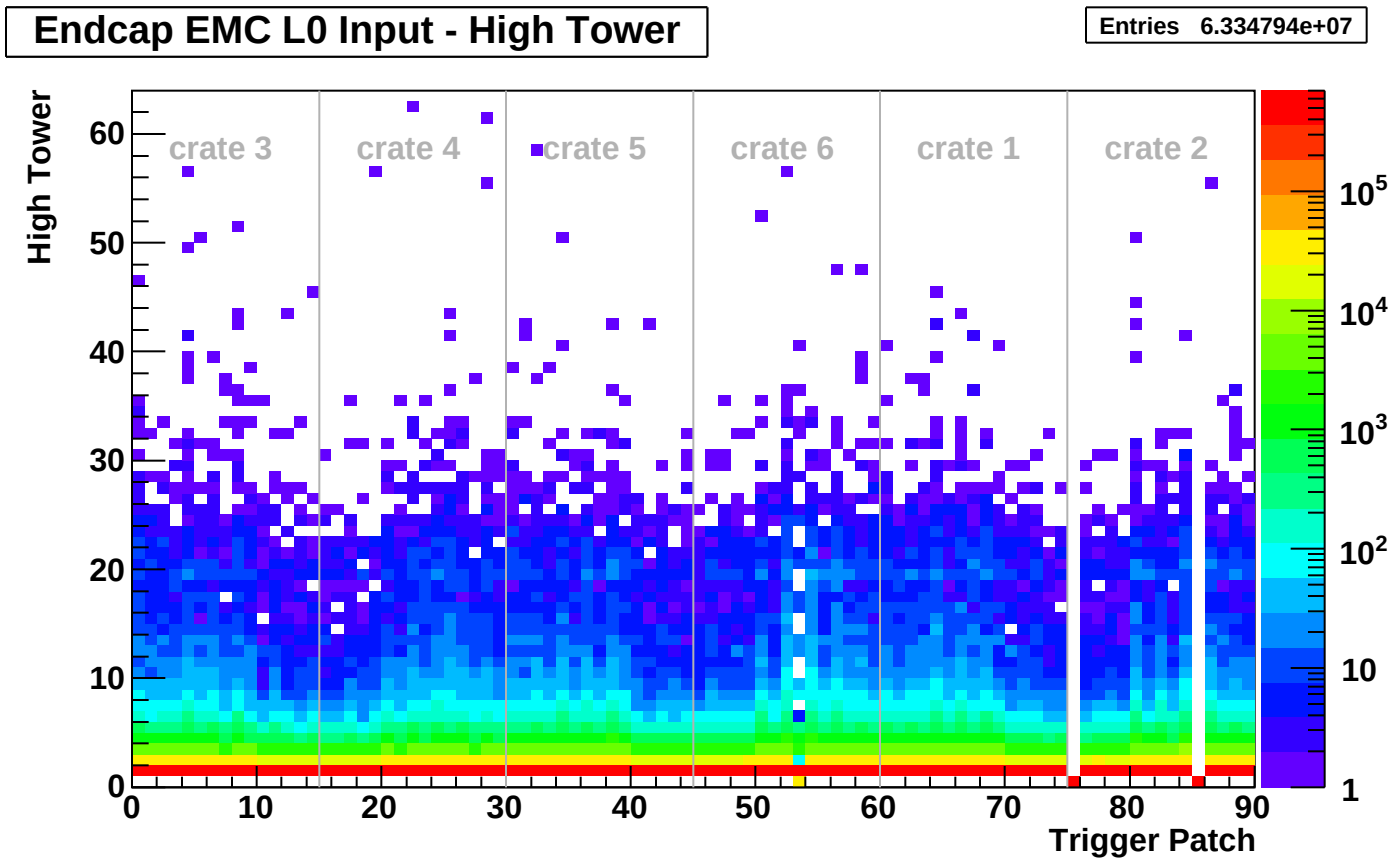

BunchId7Bit (all events)
Entries 703866

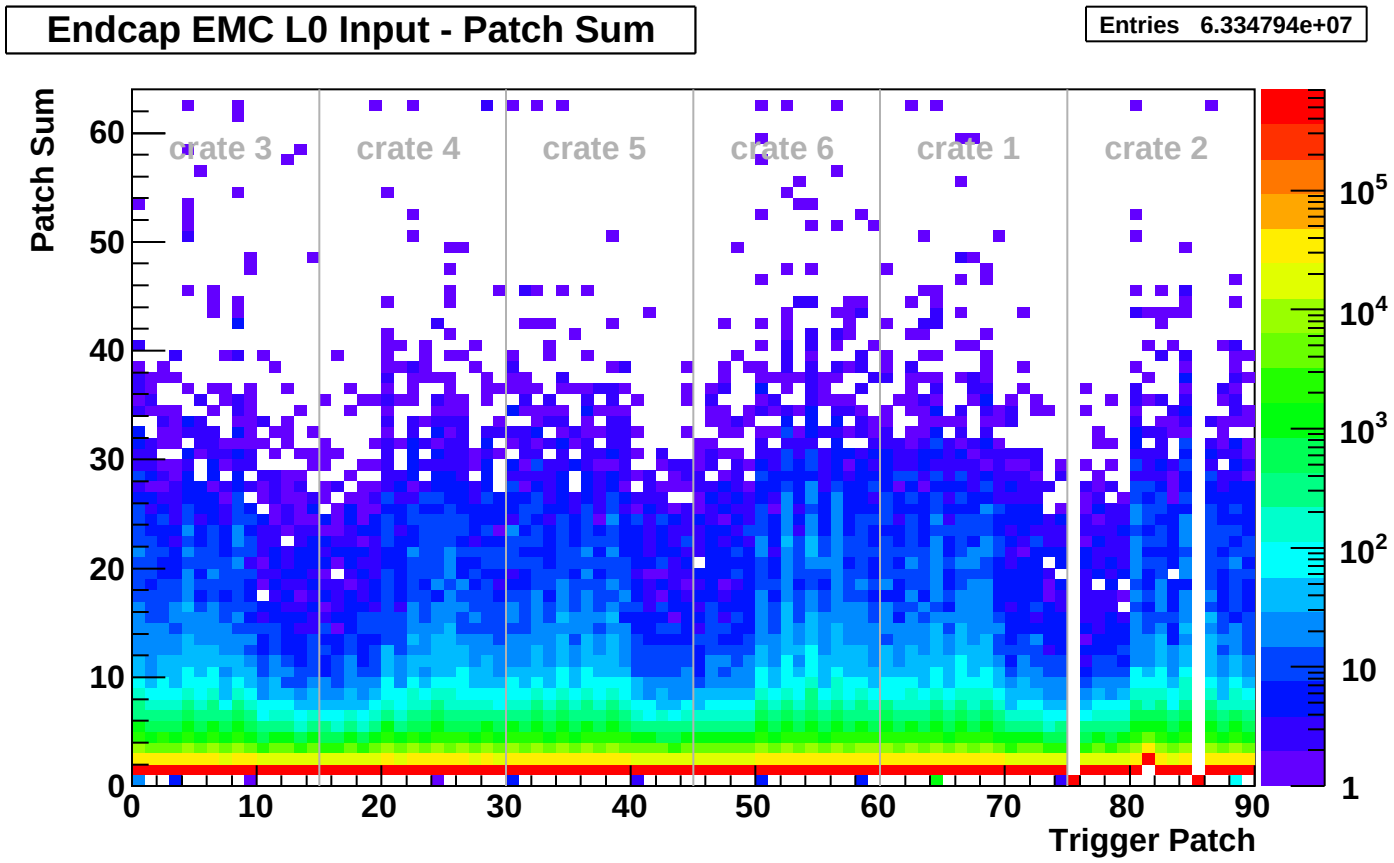

Abort-gaps
Entries 1122

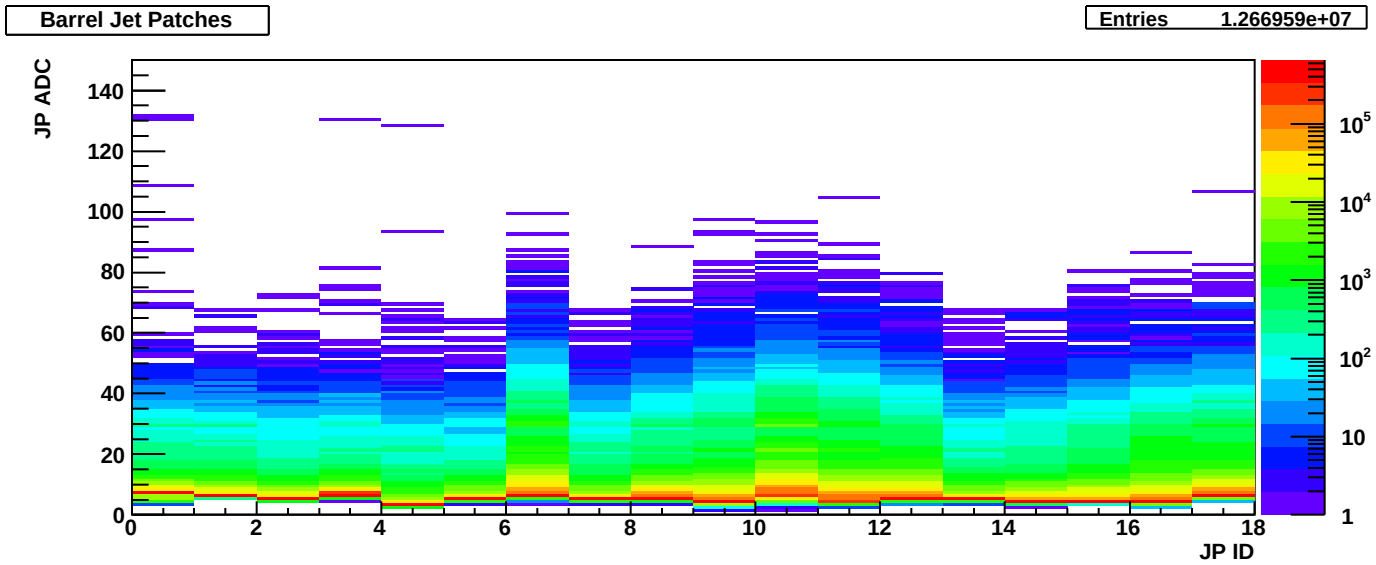

!Yellow-Fill
Entries 23155

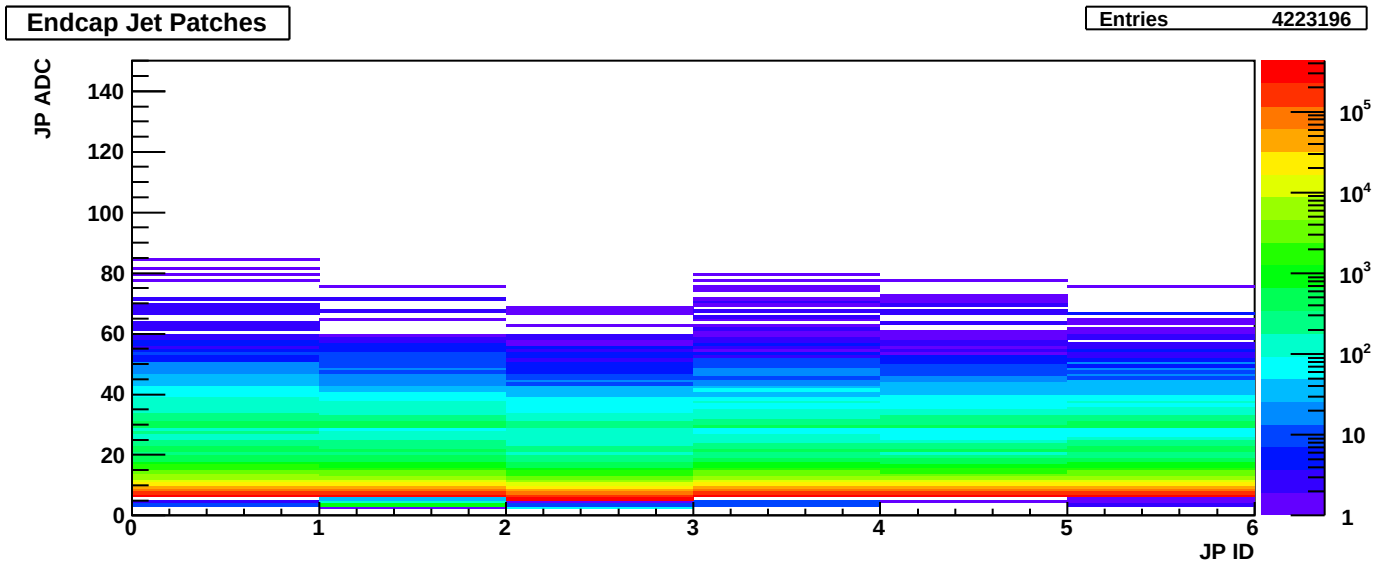

Barrel EMC L0 Input - High Tower
Entries 2.111598e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

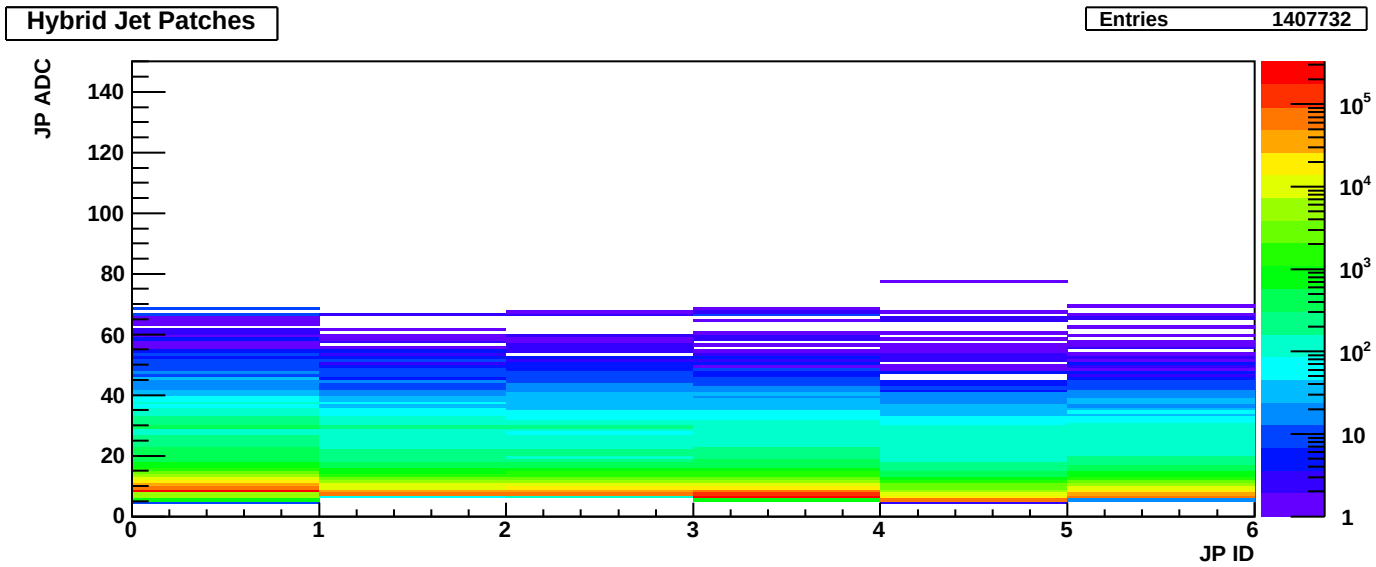

Barrel EMC L0 Input - Patch Sum
Entries 2.111598e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

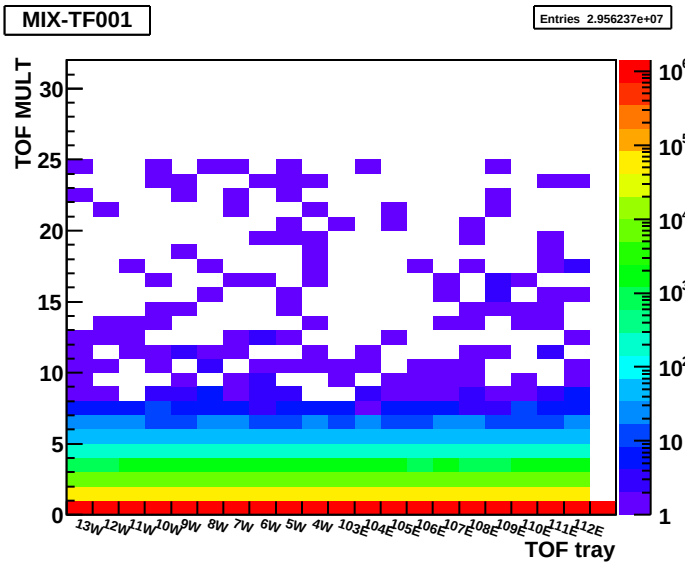

Endcap EMC L0 Input - High Tower
Entries 6.334794e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

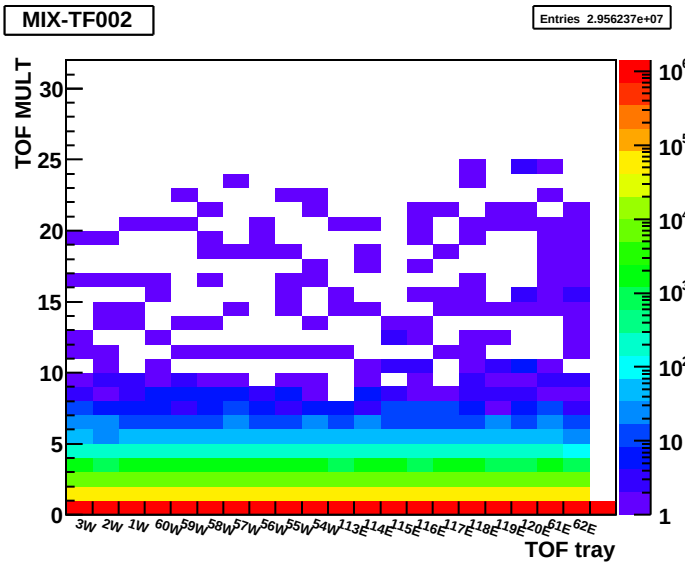

Endcap EMC L0 Input - Patch Sum
Entries 6.334794e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

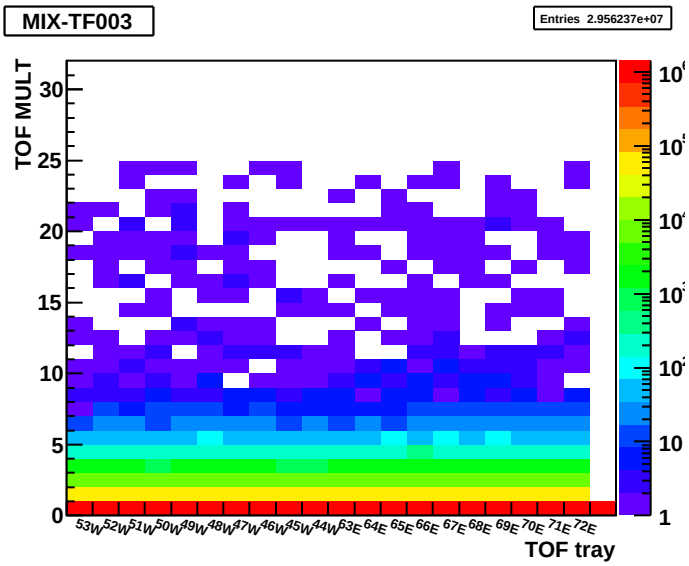

Barrel Jet Patches
Entries 1.266959e+07
JP ADC
JP ID

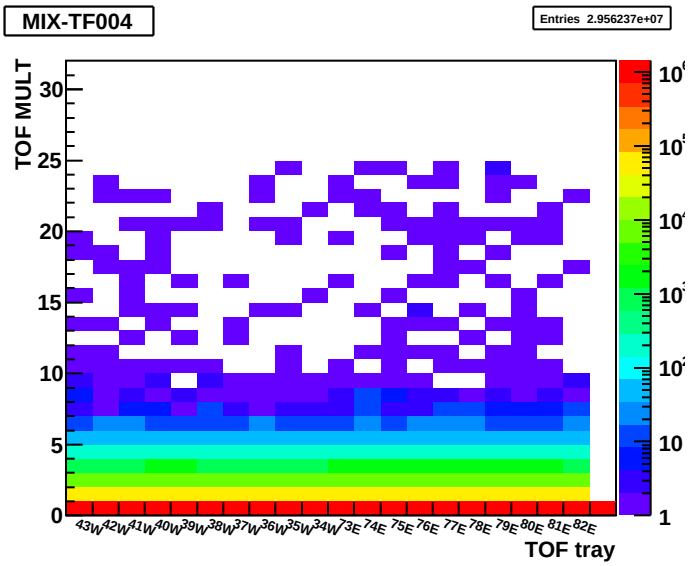

Endcap Jet Patches
Entries 4223196
JP ADC
JP ID

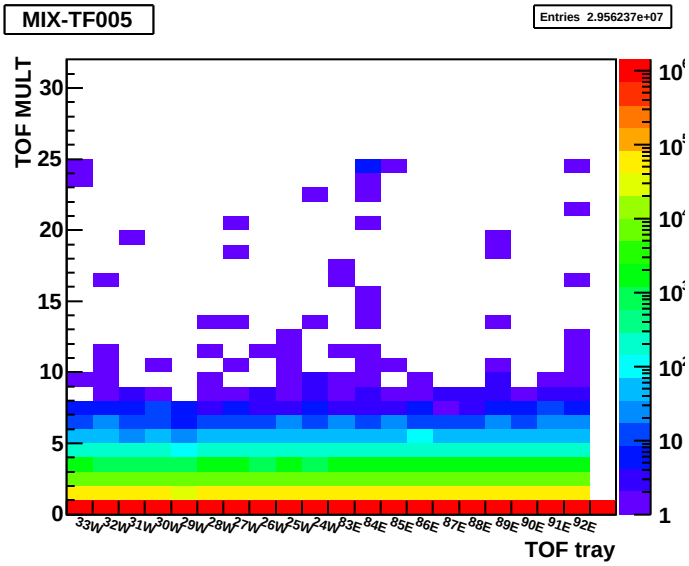

Hybrid Jet Patches
Entries 1407732
JP ADC
JP ID

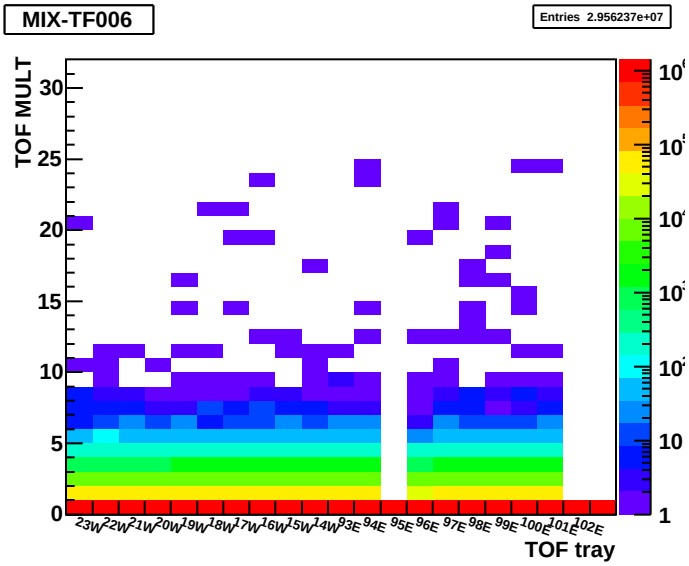

MIX-TF001
Entries 2.956237e+07
TOF MULT
TOF tray

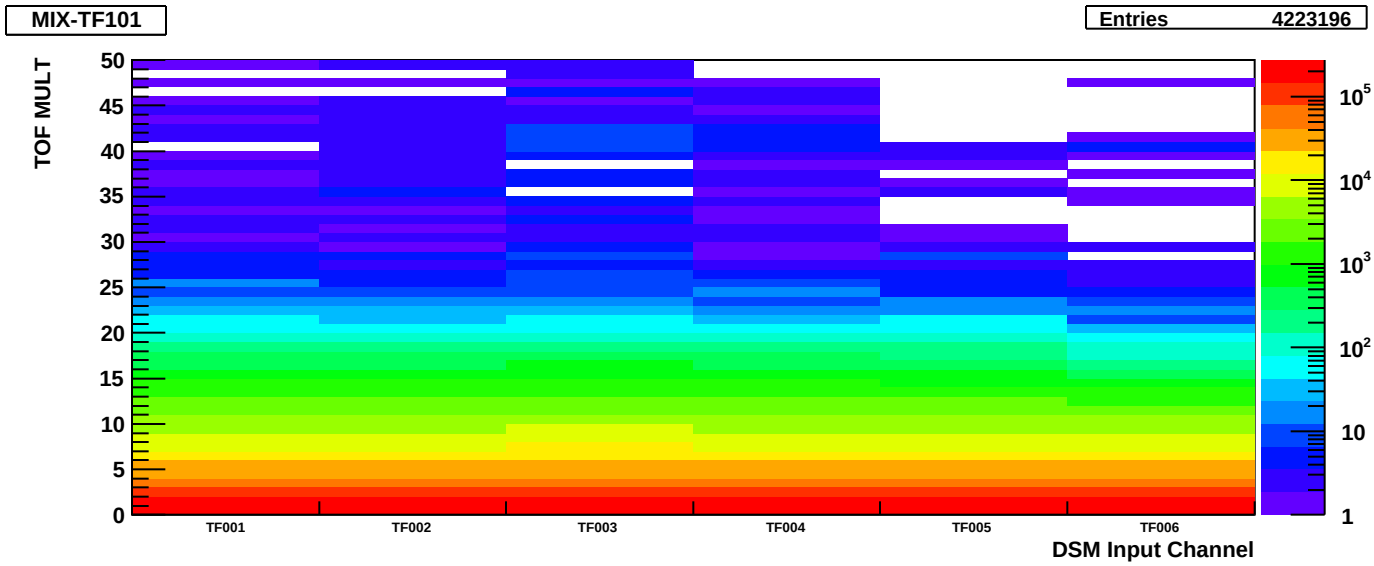

MIX-TF002
Entries 2.956237e+07
TOF MULT
TOF tray

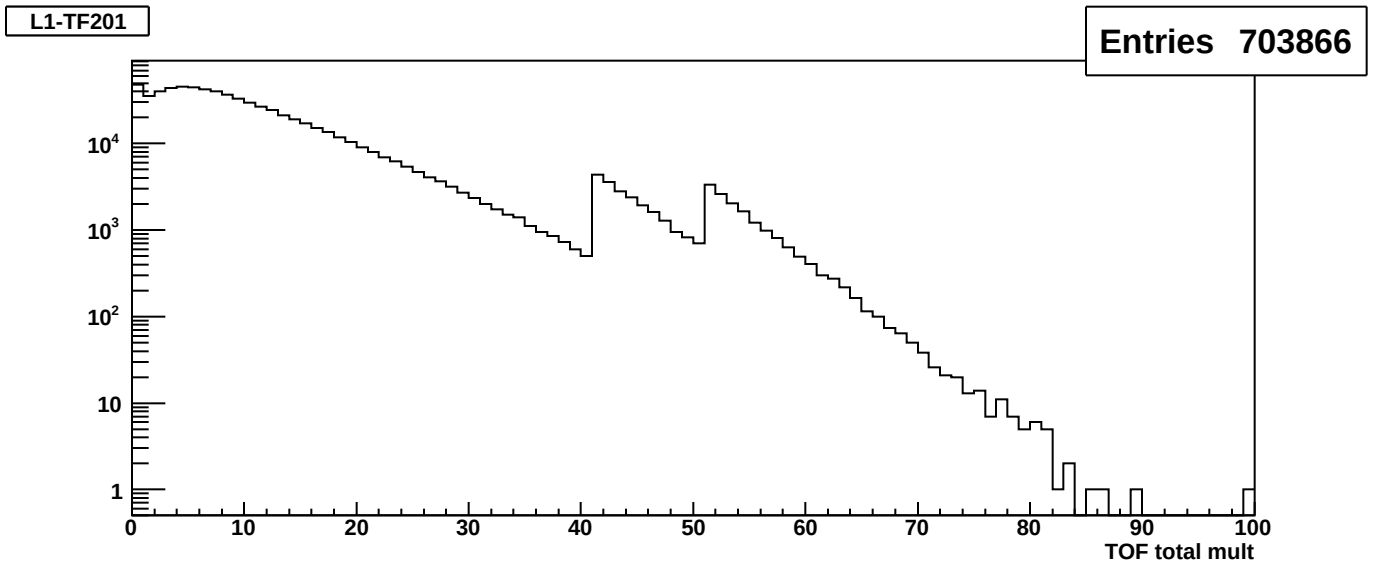

MIX-TF003
Entries 2.956237e+07
TOF MULT
TOF tray

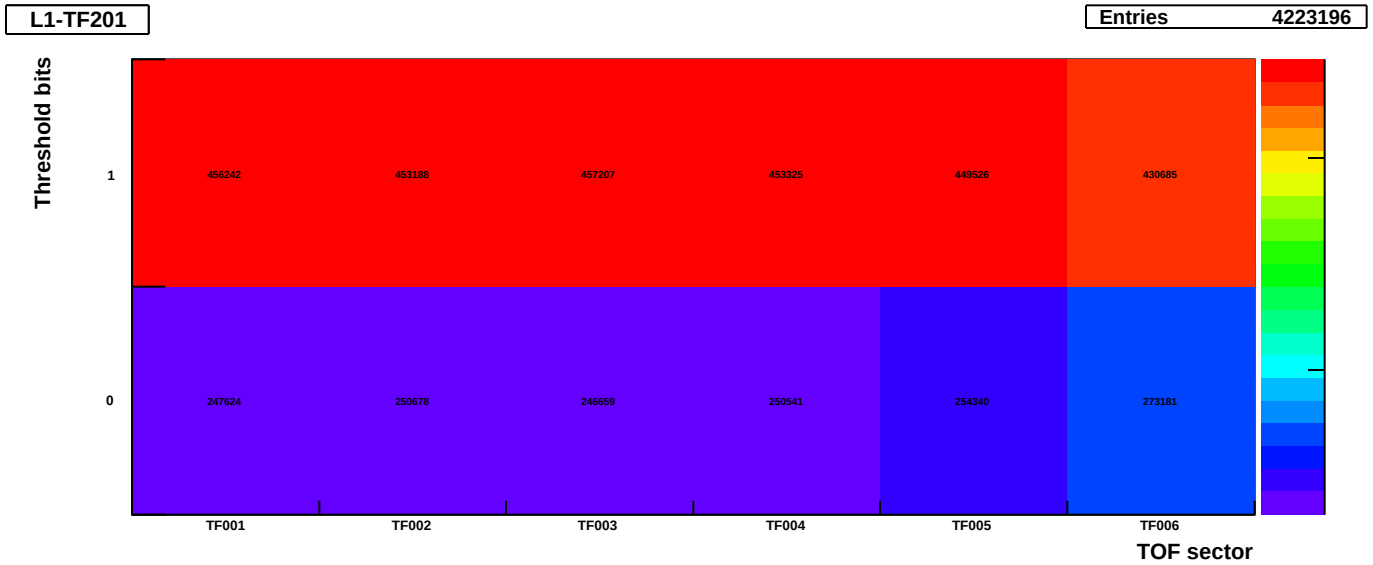

MIX-TF004
Entries 2.956237e+07
TOF MULT
TOF tray

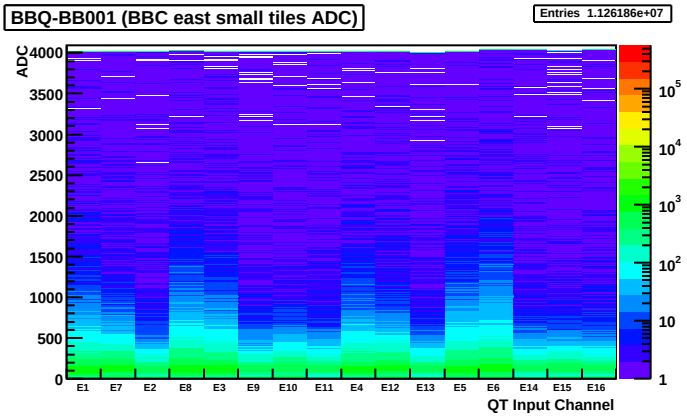

MIX-TF005
Entries 2.956237e+07
TOF MULT
TOF tray

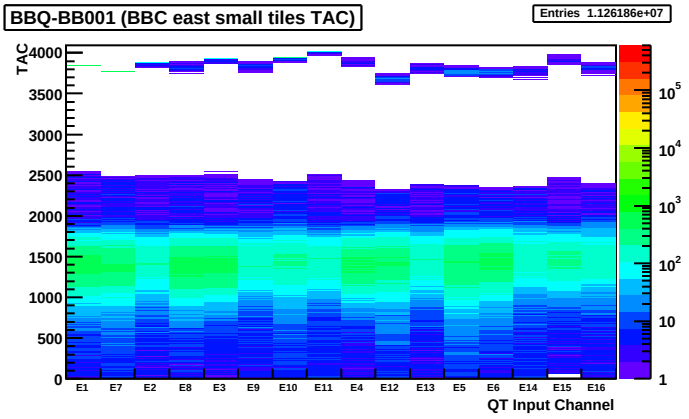

MIX-TF006
Entries 2.956237e+07
TOF MULT
TOF tray

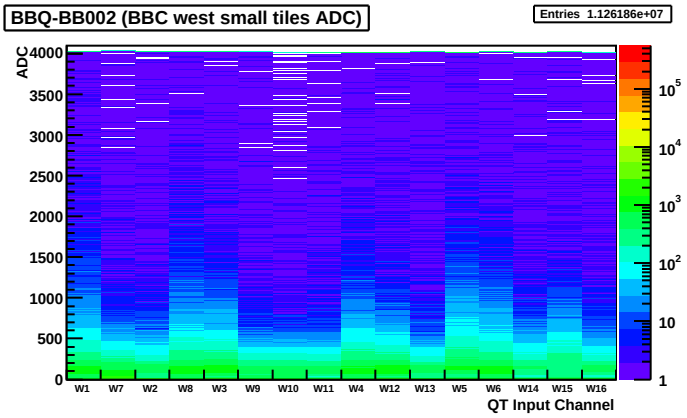

MIX-TF101
Entries 4223196
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

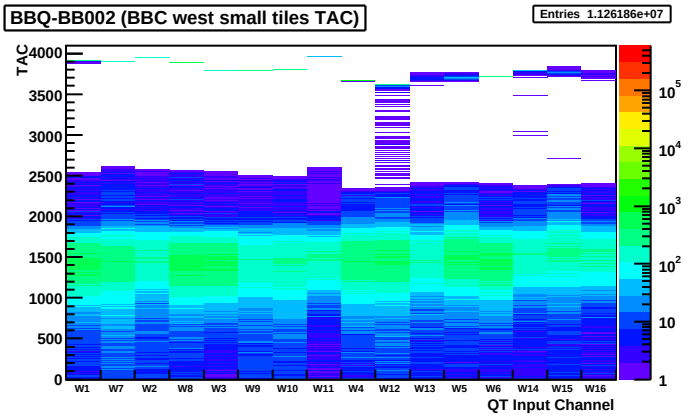

L1-TF201
Entries 703866
TOF total mult

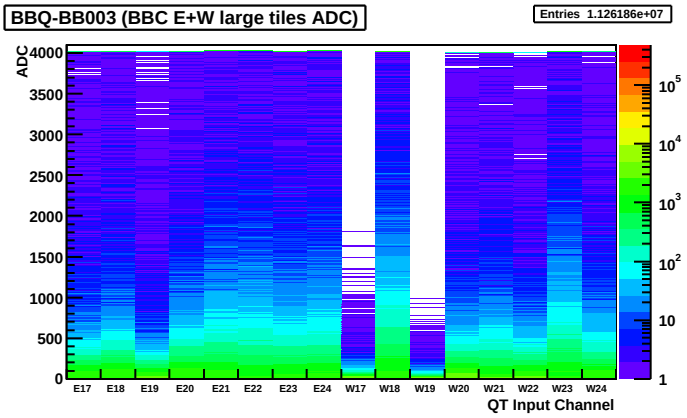

L1-TF201
Entries 4223196
Threshold bits
456242
453188
457207
453325
449526
430685
247624
250678
246659
250541
254340
273181
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

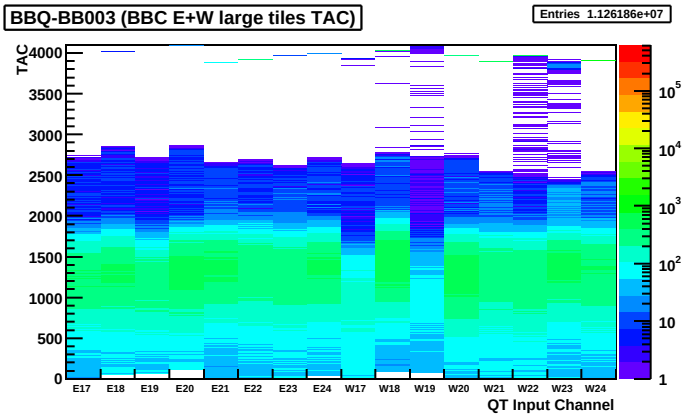

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.126186e+07
ADC
QT Input Channel

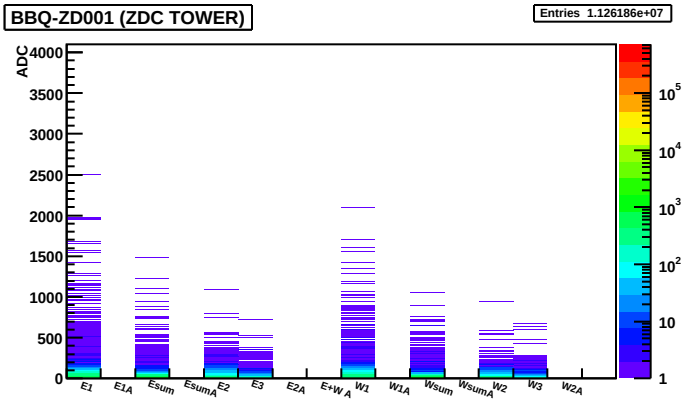

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.126186e+07
TAC
QT Input Channel

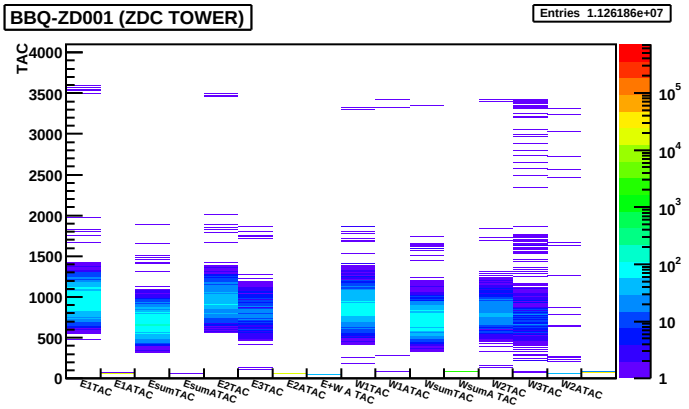

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.126186e+07
ADC
QT Input Channel

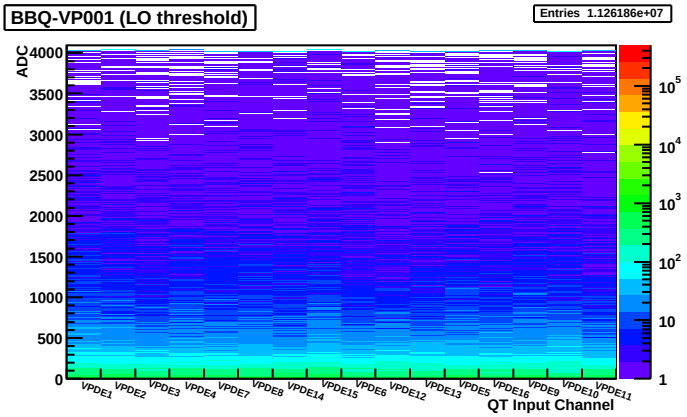

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.126186e+07
TAC
QT Input Channel

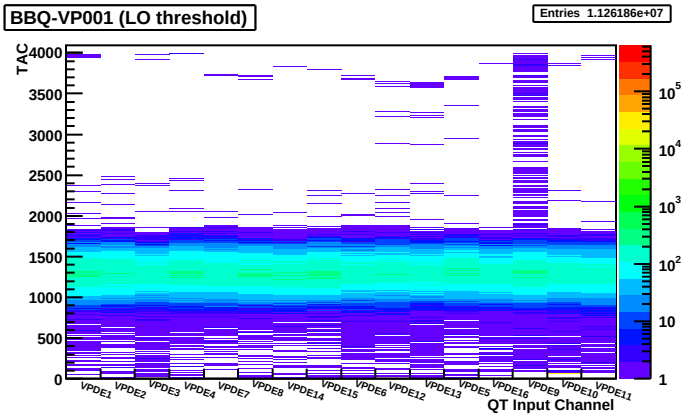

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.126186e+07
ADC
QT Input Channel

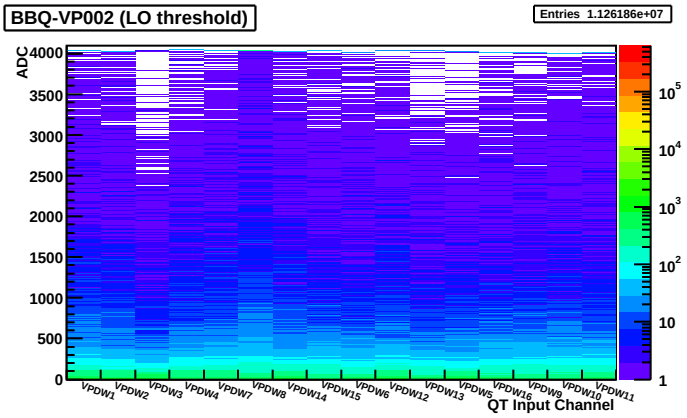

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.126186e+07
TAC
QT Input Channel

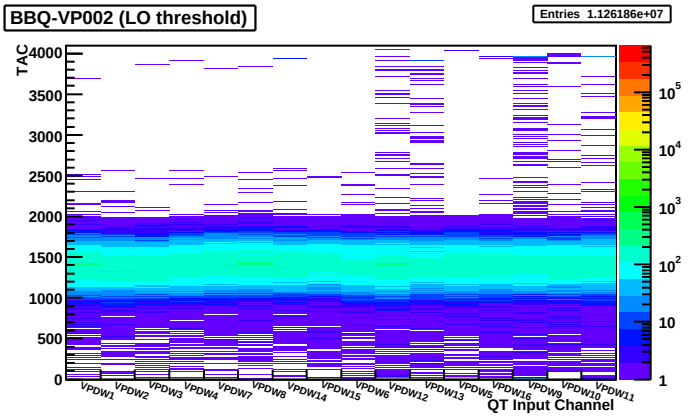

BBQ-ZD001 (ZDC TOWER)
Entries 1.126186e+07
ADC

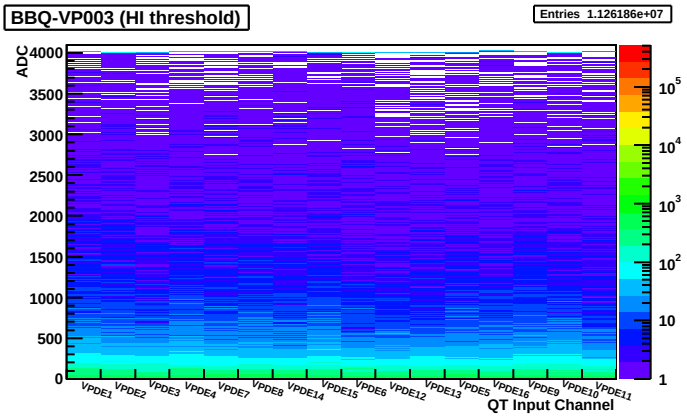

BBQ-ZD001 (ZDC TOWER)
Entries 1.126186e+07
TAC

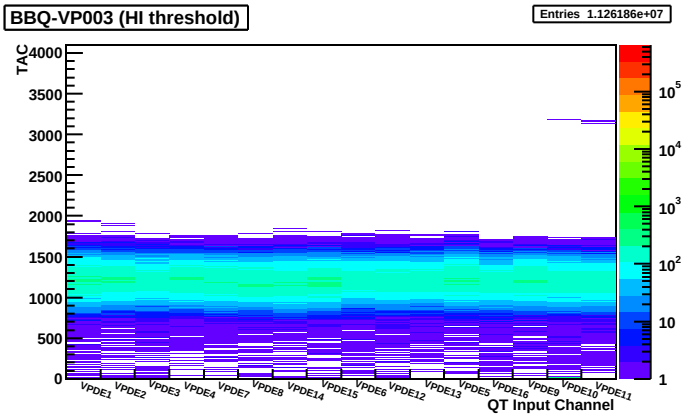

BBQ-VP001 (LO threshold)
Entries 1.126186e+07
ADC
QT Input Channel

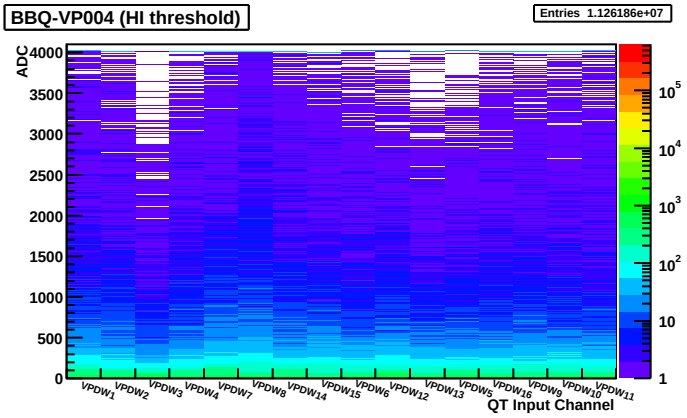

BBQ-VP001 (LO threshold)
Entries 1.126186e+07
TAC
QT Input Channel

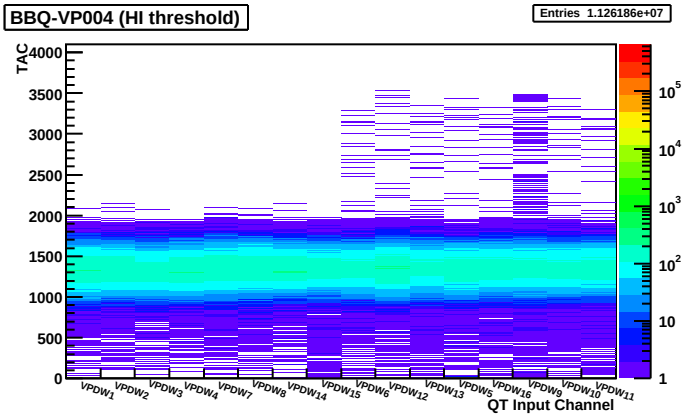

BBQ-VP002 (LO threshold)
Entries 1.126186e+07
ADC
QT Input Channel

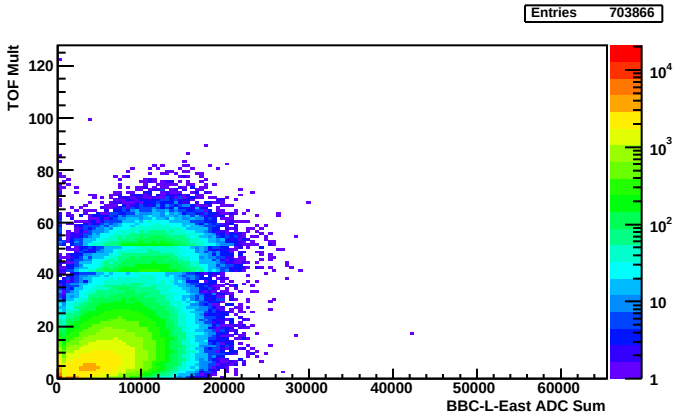

BBQ-VP002 (LO threshold)
Entries 1.126186e+07
TAC
QT Input Channel

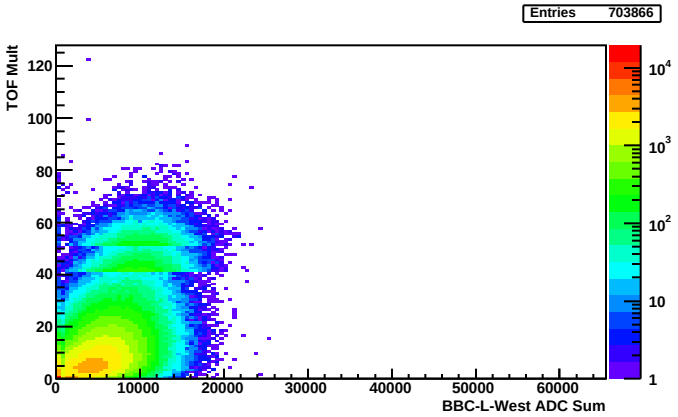

BBQ-VP003 (HI threshold)
Entries 1.126186e+07
ADC
QT Input Channel

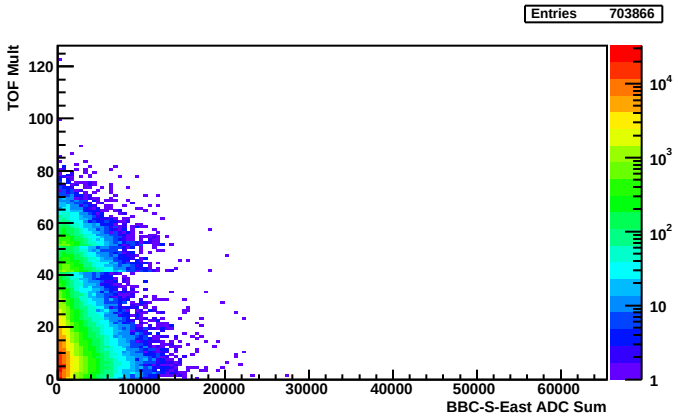

BBQ-VP003 (HI threshold)
Entries 1.126186e+07
TAC
QT Input Channel

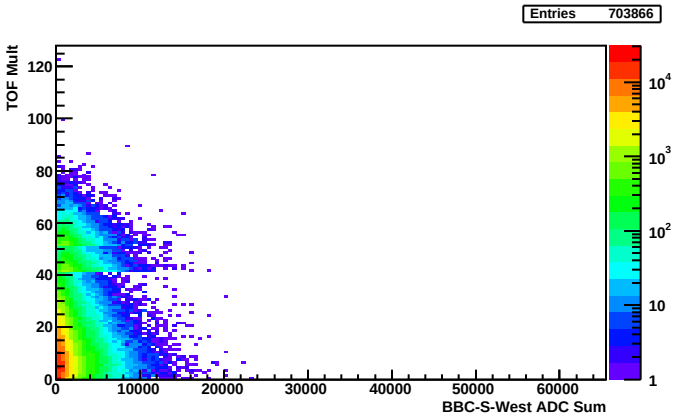

BBQ-VP004 (HI threshold)
Entries 1.126186e+07
ADC
QT Input Channel

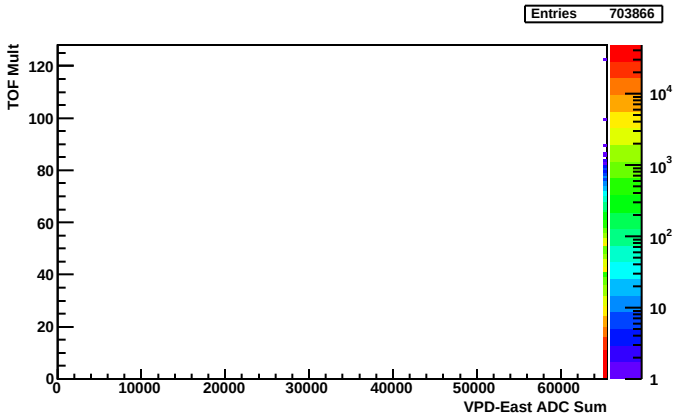

BBQ-VP004 (HI threshold)
Entries 1.126186e+07
TAC
QT Input Channel

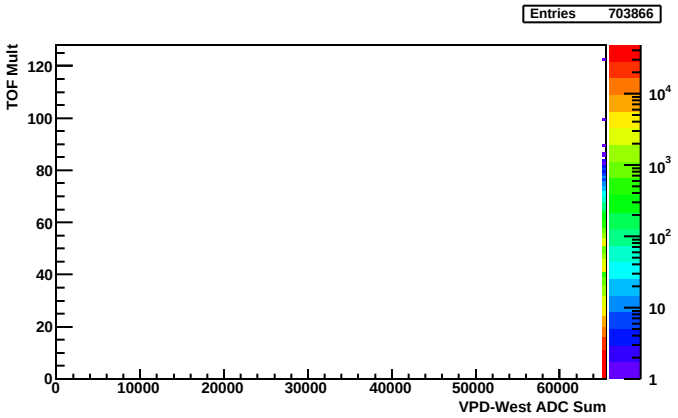

Entries 703866
TOF Mult
BBC-L-East ADC Sum

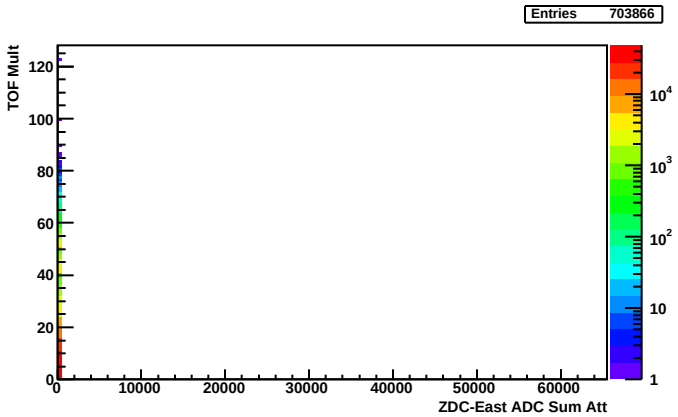

Entries 703866
TOF Mult
BBC-L-West ADC Sum

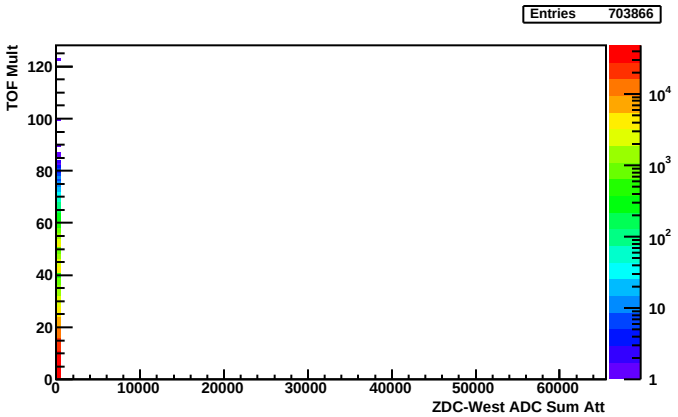

Entries 703866
TOF Mult
BBC-S-East ADC Sum

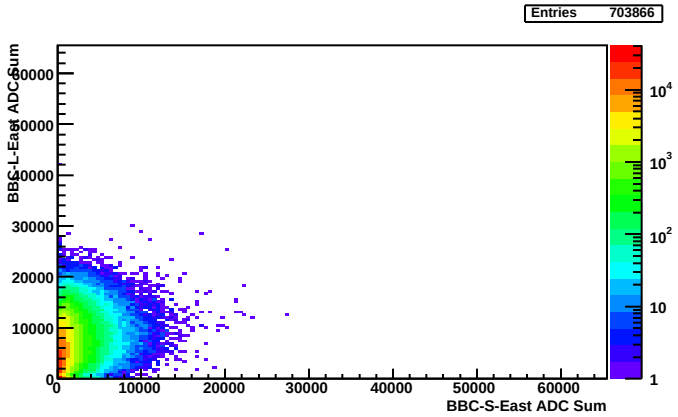

Entries 703866
TOF Mult
BBC-S-West ADC Sum

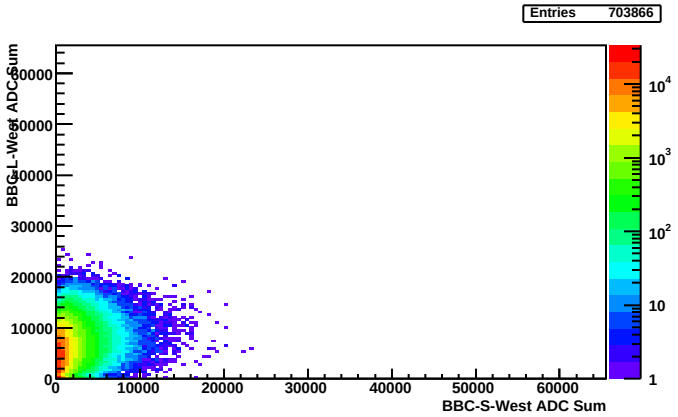

Entries 703866
TOF Mult
VPD-East ADC Sum

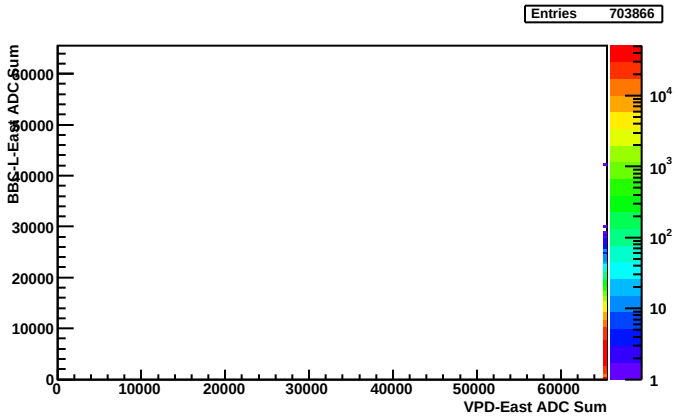

Entries 703866
TOF Mult
VPD-West ADC Sum

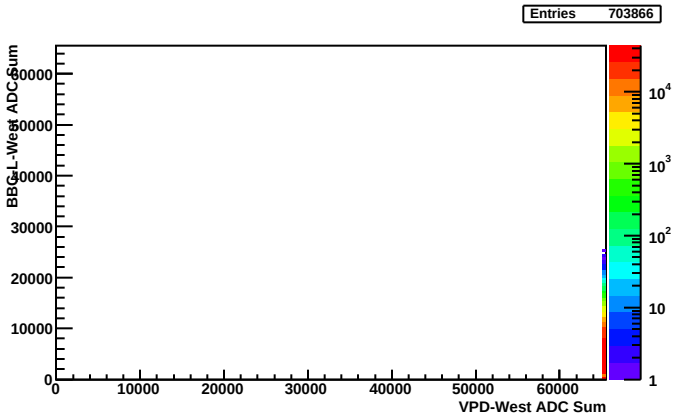

Entries 703866
TOF Mult
ZDC-East ADC Sum Att

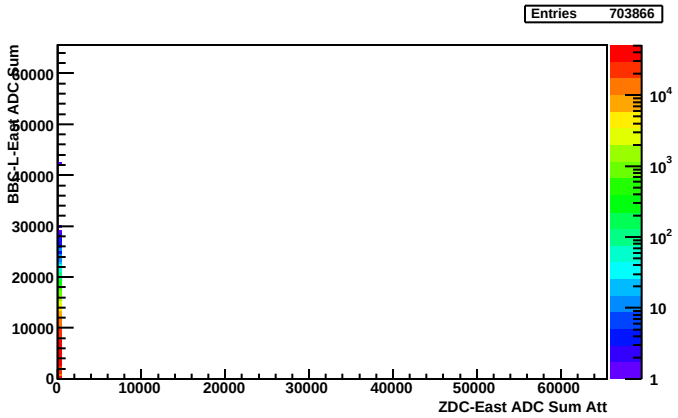

Entries 703866
TOF Mult
ZDC-West ADC Sum Att

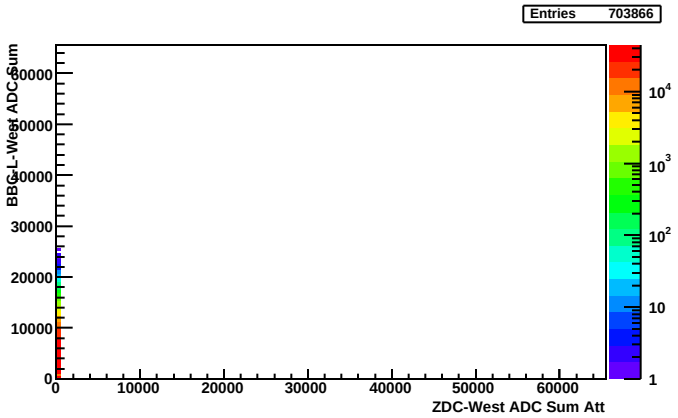

Entries 703866
BBC-L-East ADC Sum
BBC-S-East ADC Sum

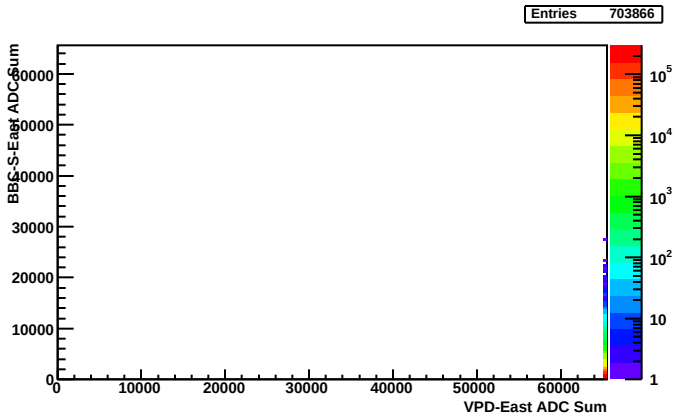

Entries 703866
BBC-L-West ADC Sum
BBC-S-West ADC Sum

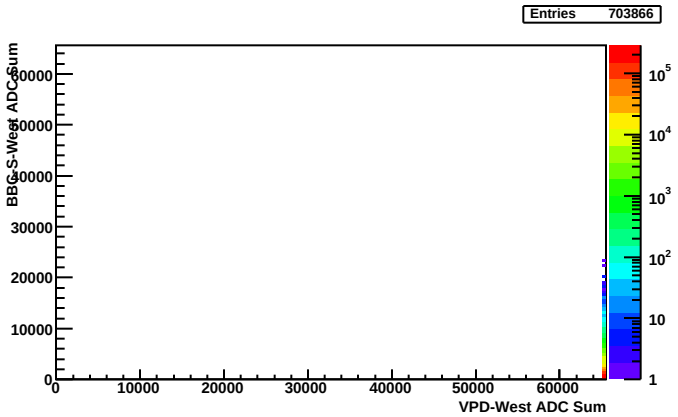

Entries 703866
BBC-L-East ADC Sum
VPD-East ADC Sum

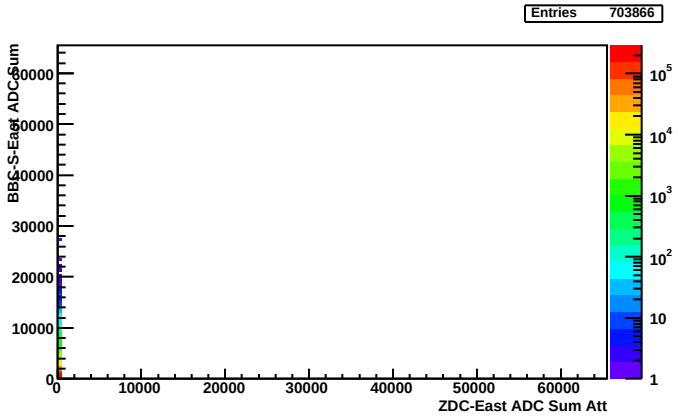

Entries 703866
BBC-L-West ADC Sum
VPD-West ADC Sum

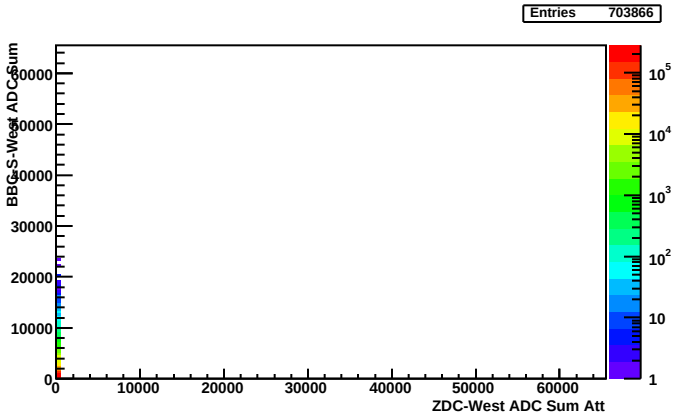

Entries 703866
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

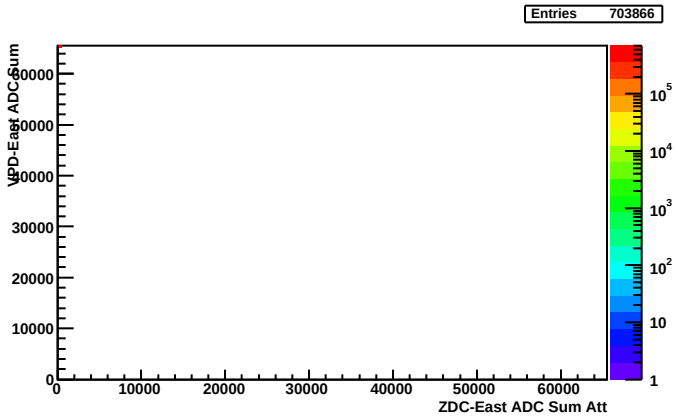

Entries 703866
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

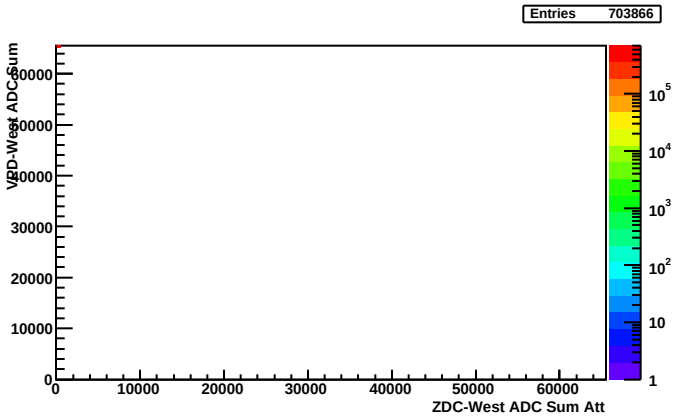

Entries 703866
BBC-S-East ADC Sum
VPD-East ADC Sum

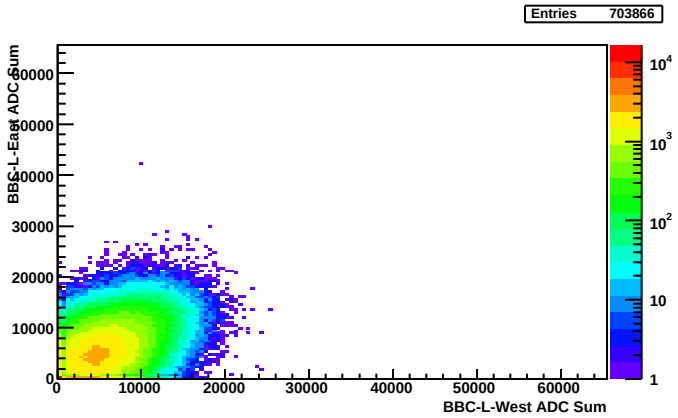

Entries 703866
BBC-S-West ADC Sum
VPD-West ADC Sum

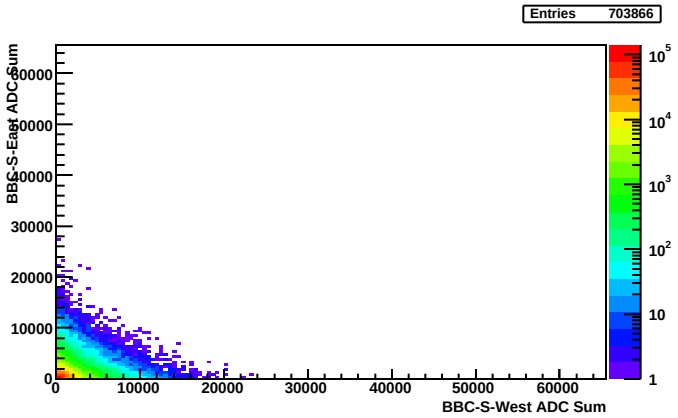

Entries 703866
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

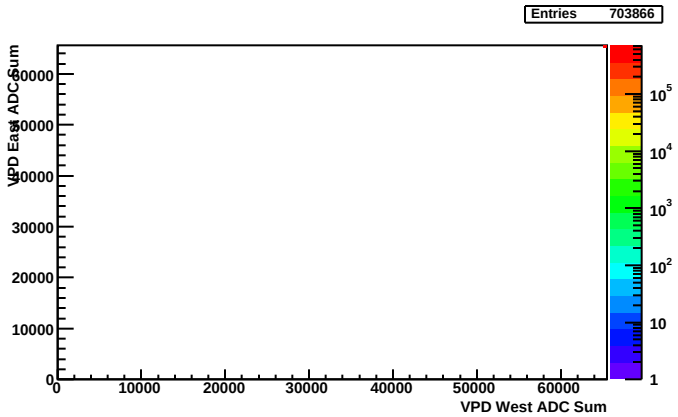

Entries 703866
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

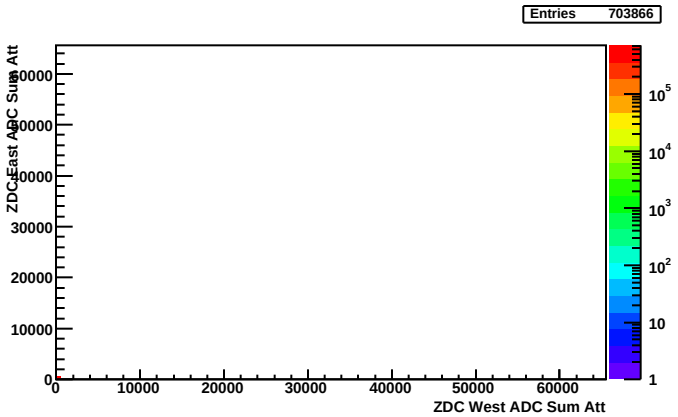

Entries 703866
VPD-East ADC Sum
ZDC-East ADC Sum Att

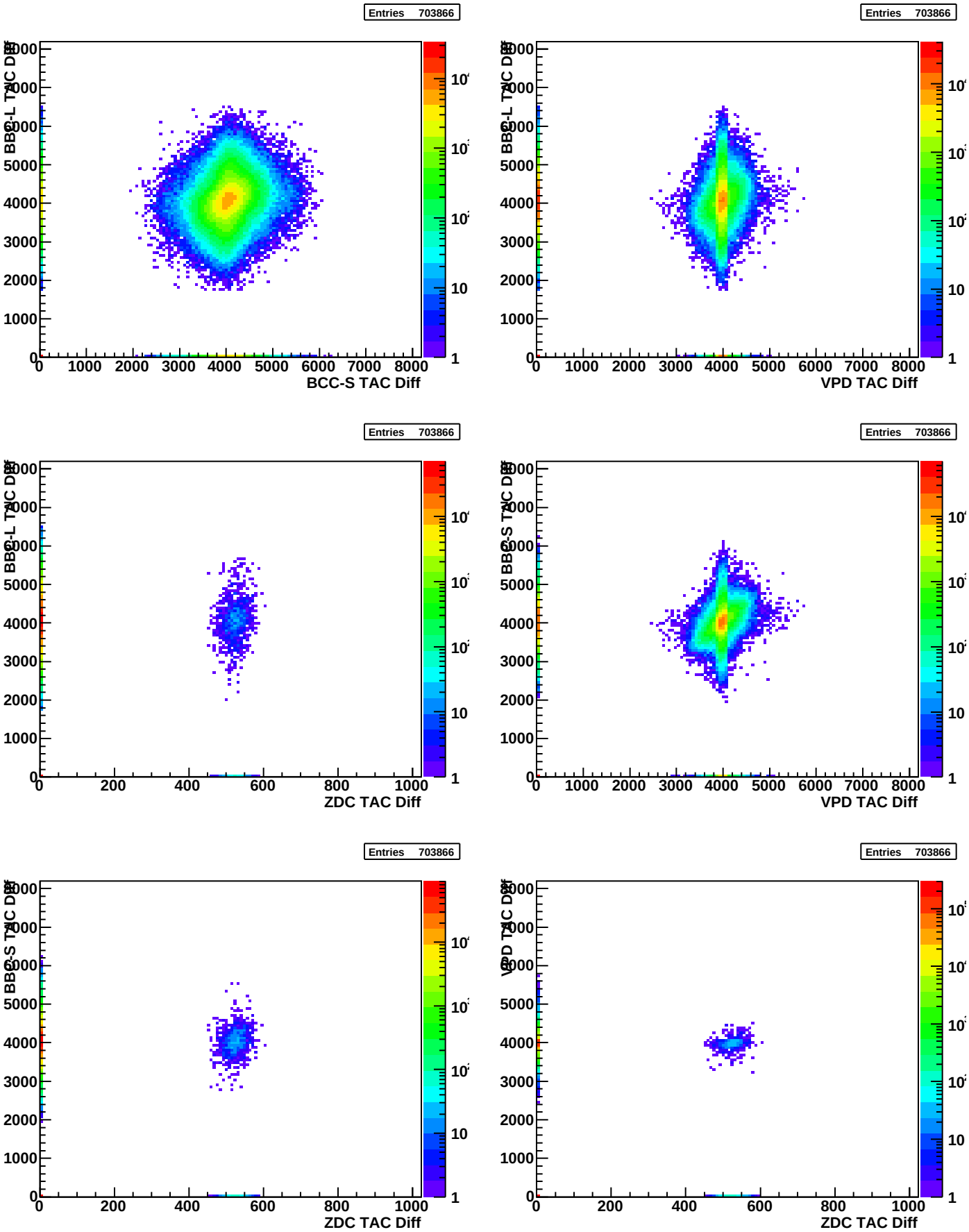

Entries 703866
VPD-West ADC Sum
ZDC-West ADC Sum Att

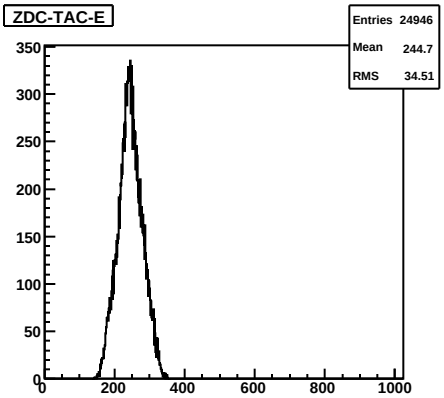

Entries 703866
BBC-L-East ADC Sum
BBC-L-West ADC Sum

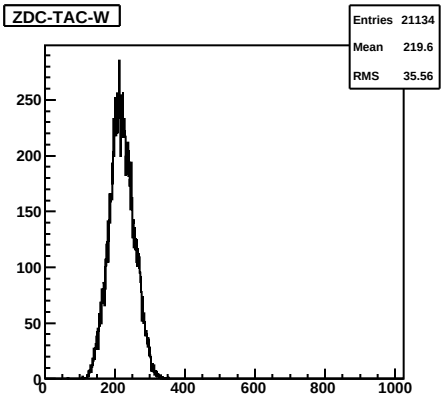

Entries 703866
BBC-S-East ADC Sum
BBC-S-West ADC Sum

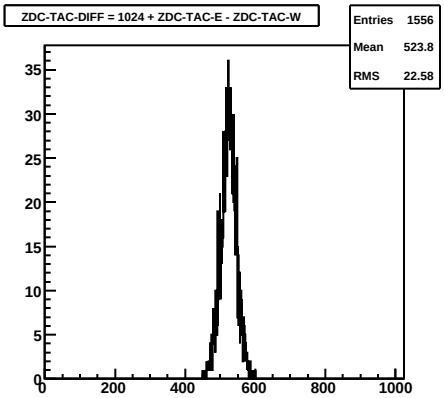

Entries 703866
VPD East ADC Sum
VPD West ADC Sum

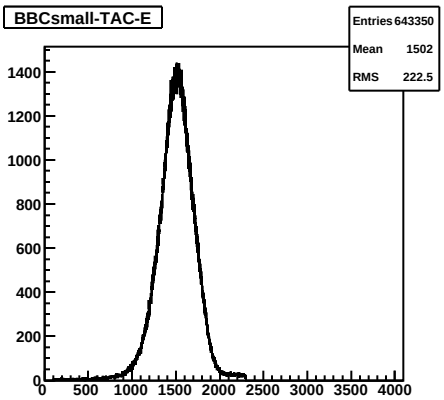

Entries 703866
ZDC East ADC Sum Att
ZDC West ADC Sum Att

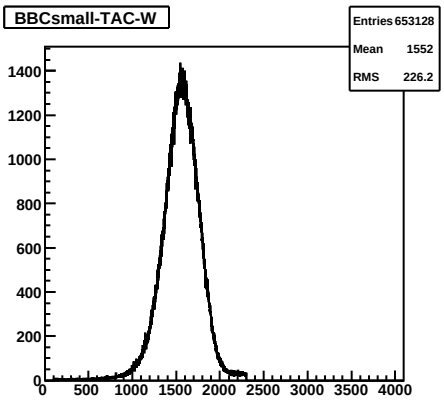

Entries 703866
BBC-L TAC Diff
BCC-S TAC Diff
Entries 703866
BBC-L TAC Diff
VPD TAC Diff
Entries 703866
BBC-L TAC Diff
ZDC TAC Diff
Entries 703866
BBC-S TAC Diff
VPD TAC Diff
Entries 703866
BBC-S TAC Diff
ZDC TAC Diff
Entries 703866
VPD TAC Diff
ZDC TAC Diff

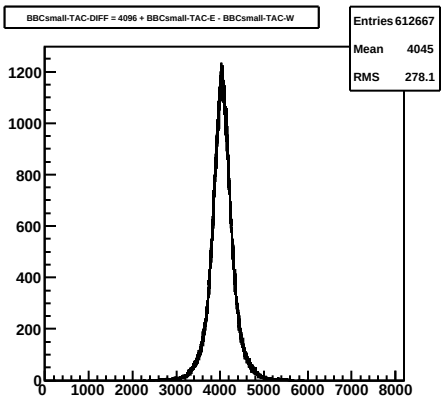

ZDC-TAC-E
Entries 24946
Mean 244.7
RMS 34.51

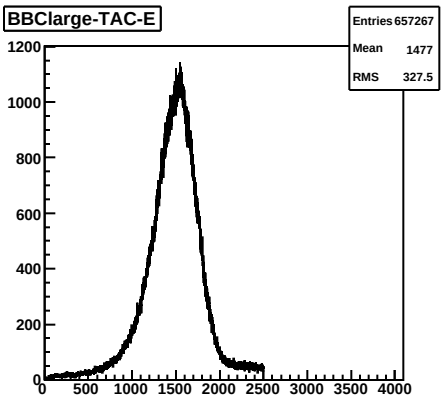

ZDC-TAC-W
Entries 21134
Mean 219.6
RMS 35.56

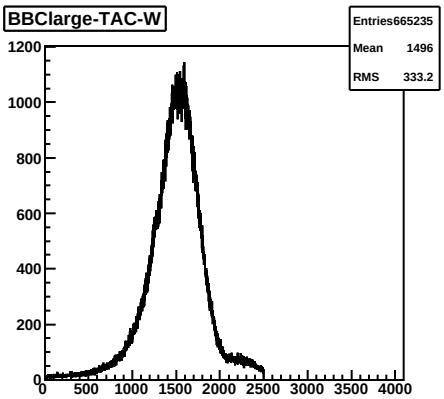

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1556
Mean 523.8
RMS 22.58

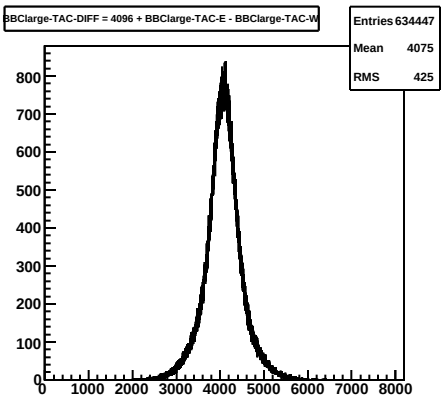

BBCsmall-TAC-E
Entries 643350
Mean 1502
RMS 222.5

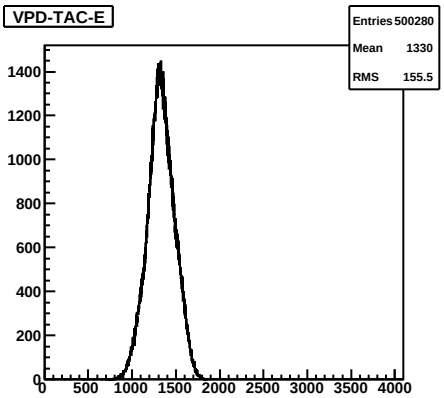

BBCsmall-TAC-W
Entries 653128
Mean 1552
RMS 226.2

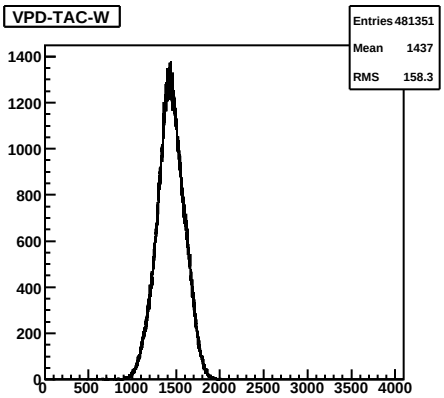

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 612667
Mean 4045
RMS 278.1

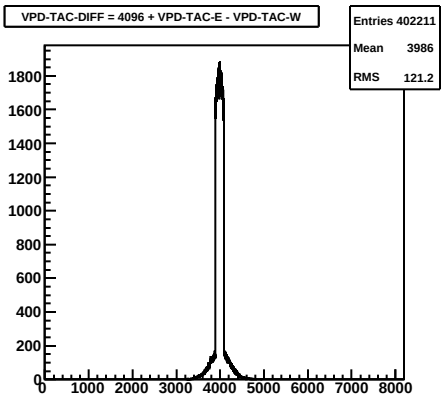

BBClarge-TAC-E
Entries 657267
Mean 1477
RMS 327.5

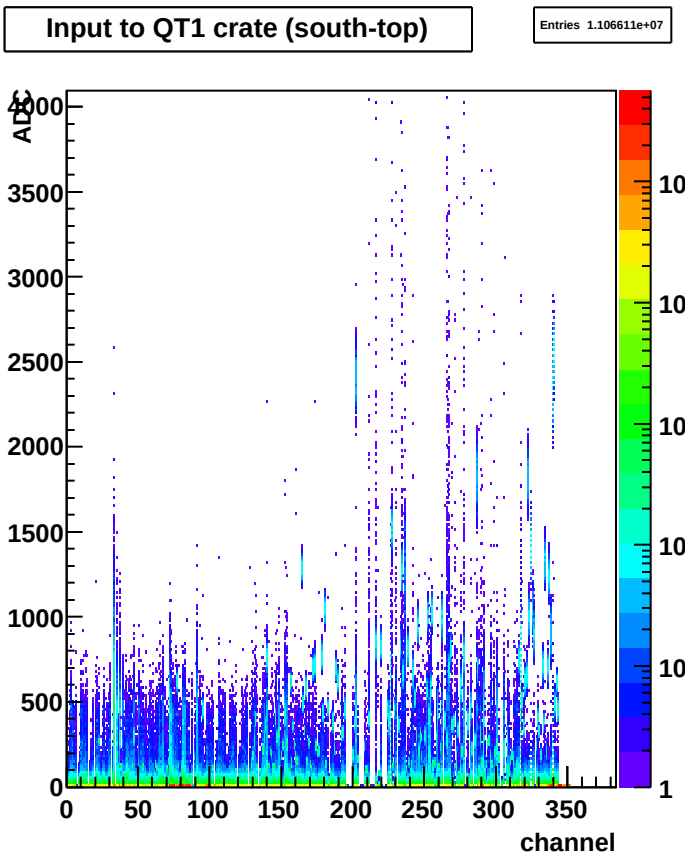

BBClarge-TAC-W
Entries 665235
Mean 1496
RMS 333.2

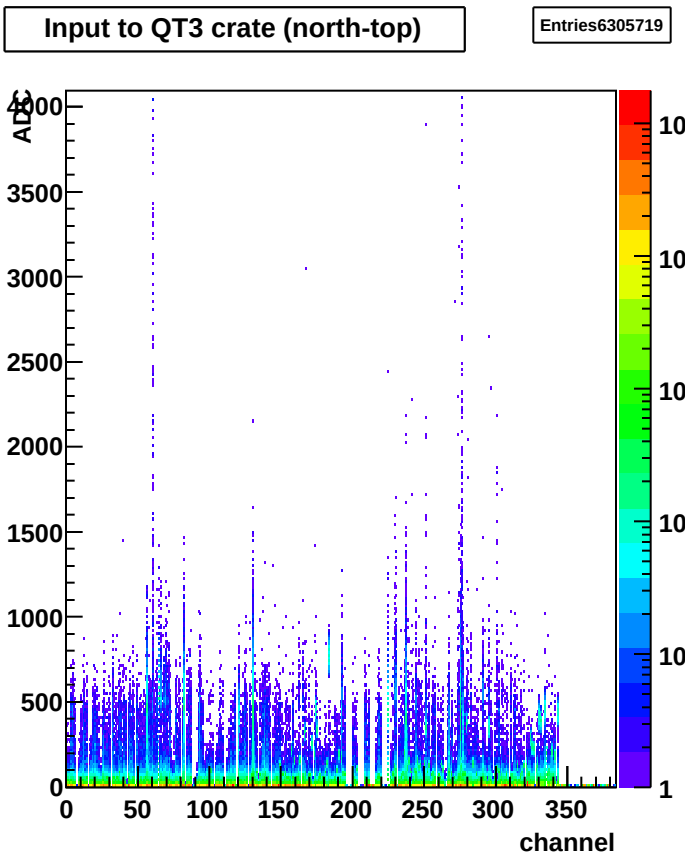

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 634447
Mean 4075
RMS 425

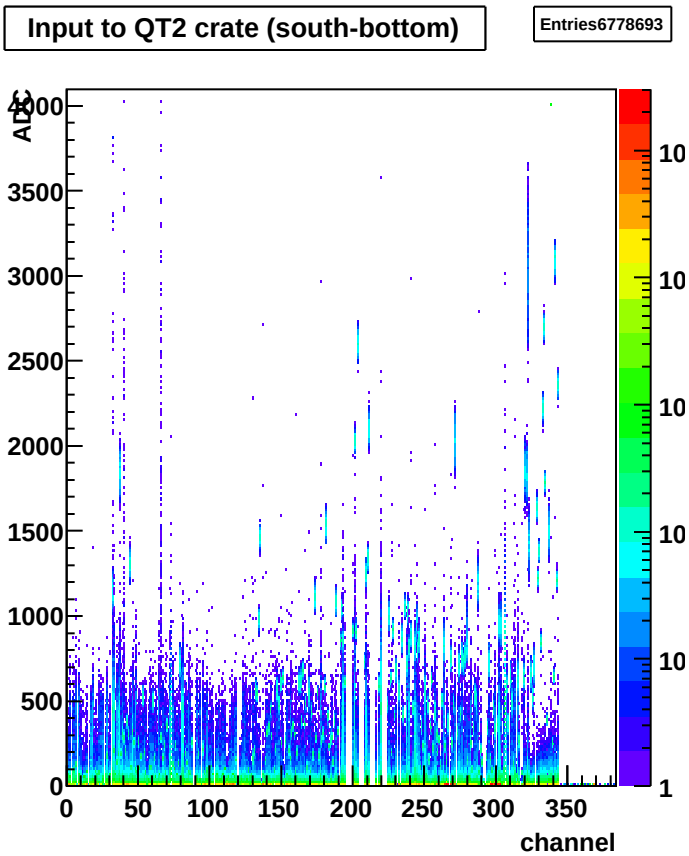

VPD-TAC-E
Entries 500280
Mean 1330
RMS 155.5

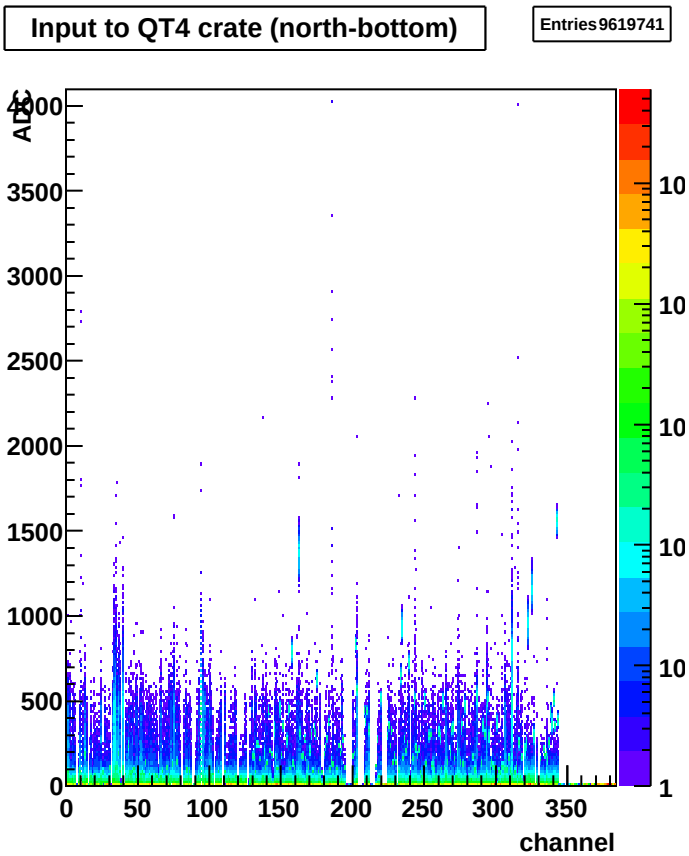

VPD-TAC-W
Entries 481351
Mean 1437
RMS 158.3

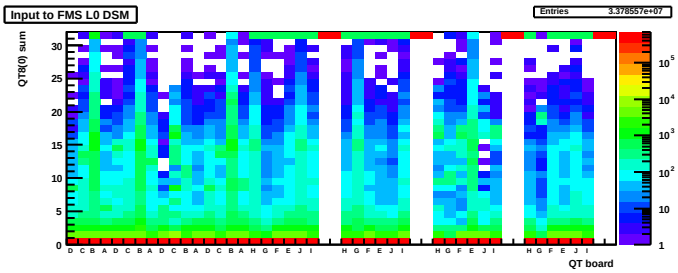

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 402211
Mean 3986
RMS 121.2

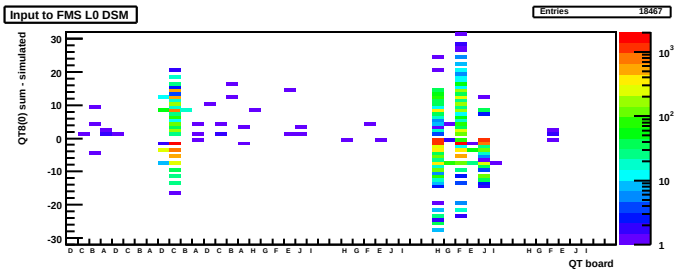

Input to QT1 crate (south-top)
Entries 1.106611e+07
ADC
channel

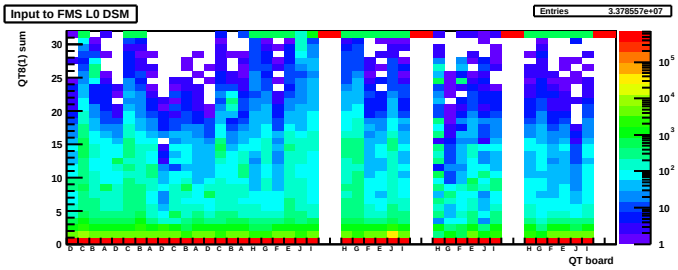

Input to QT3 crate (north-top)
Entries6305719
ADC
channel

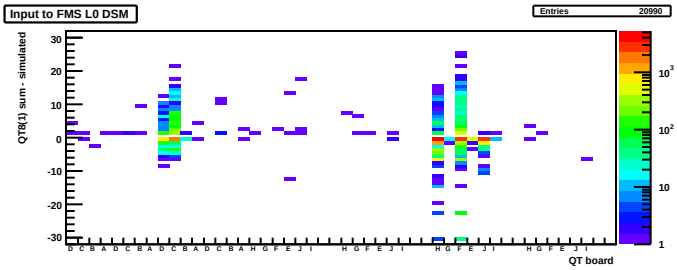

Input to QT2 crate (south-bottom)
Entries6778693
ADC
channel

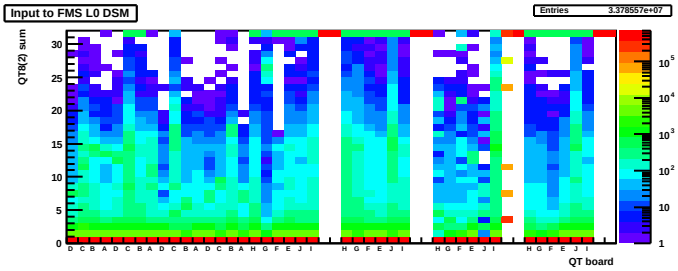

Input to QT4 crate (north-bottom)
Entries9619741
ADC
channel

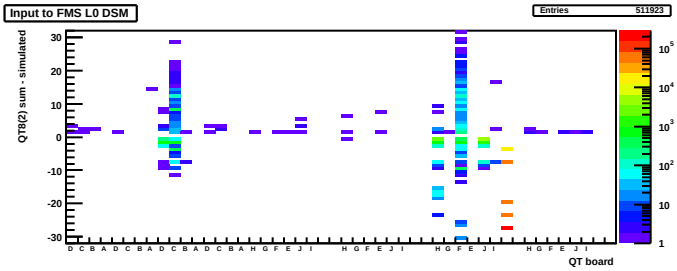

Input to FMS L0 DSM
Entries 3.378557e+07
QT8(0) sum
QT board

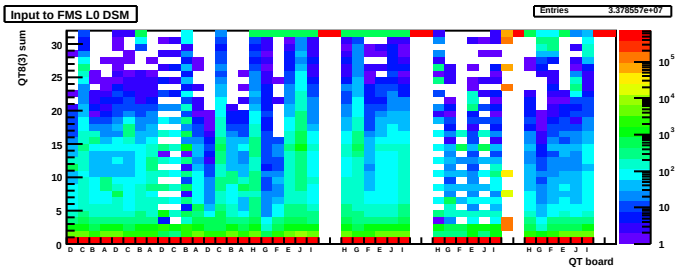

Input to FMS L0 DSM
Entries 18467
QT8(0) sum - simulated
QT board

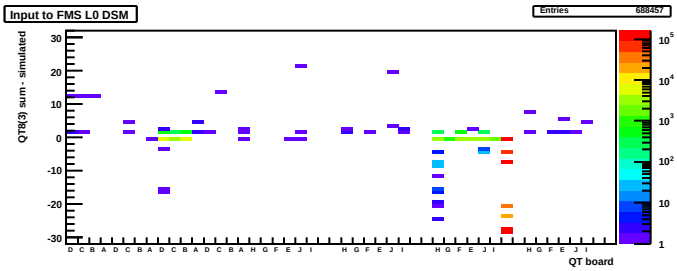

Input to FMS L0 DSM
Entries 3.378557e+07
QT8(1) sum
QT board

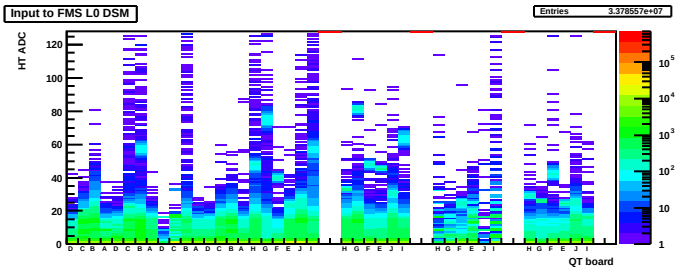

Input to FMS L0 DSM
Entries 20990
QT8(1) sum - simulated
QT board

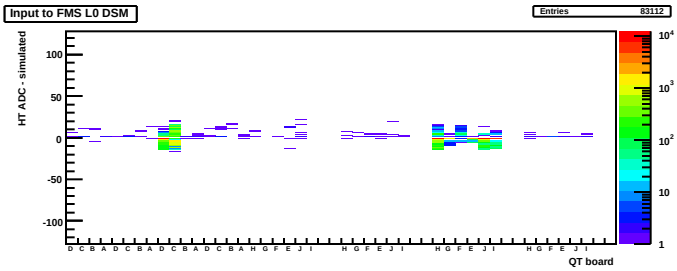

Input to FMS L0 DSM
Entries 3.378557e+07
QT8(2) sum
QT board

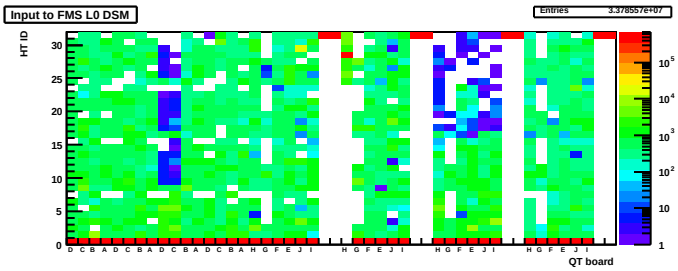

Input to FMS L0 DSM
Entries 511923
QT8(2) sum - simulated
QT board

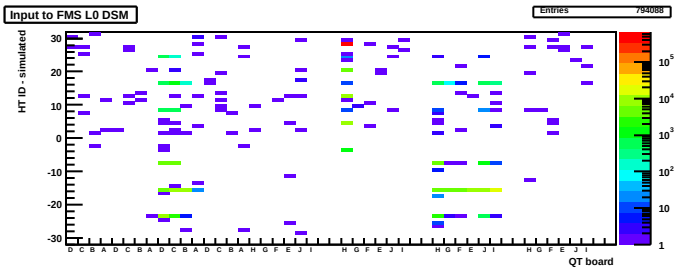

Input to FMS L0 DSM
Entries 3.378557e+07
QT8(3) sum
QT board

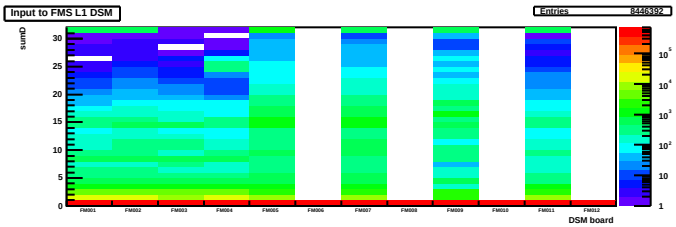

Input to FMS L0 DSM
Entries 688457
QT8(3) sum - simulated
QT board

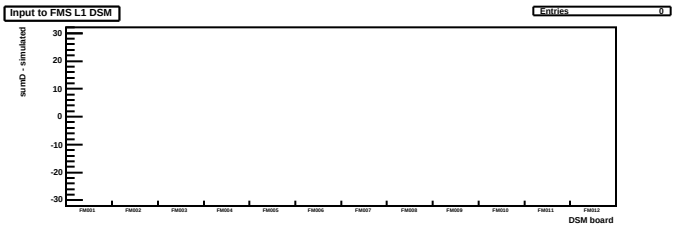

Input to FMS L0 DSM
Entries 3.378557e+07
HT ADC
QT board

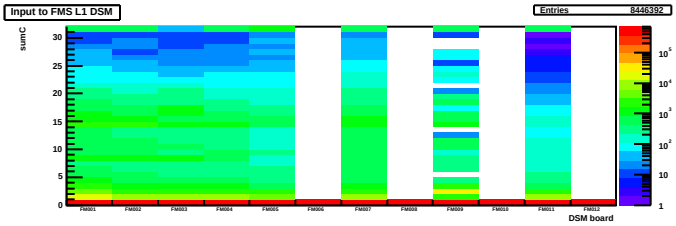

Input to FMS L0 DSM
Entries 83112
HT ADC - simulated
QT board

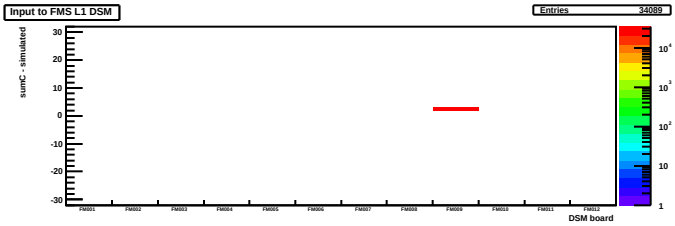

Input to FMS L0 DSM
Entries 3.378557e+07
HT ID
QT board

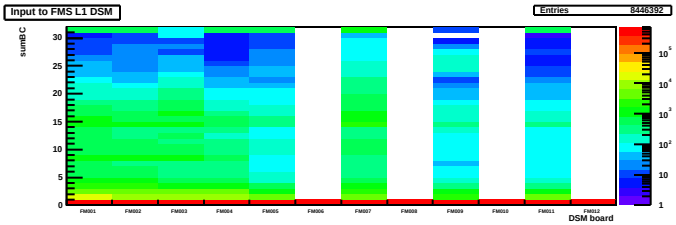

Input to FMS L0 DSM
Entries 794088
HT ID - simulated
QT board

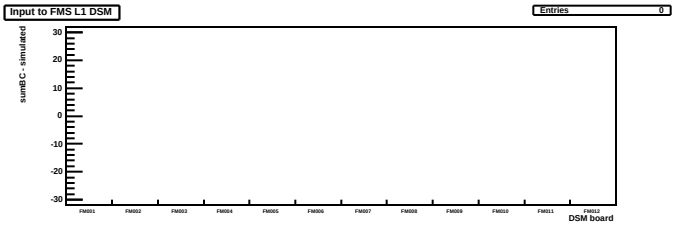

Input to FMS L1 DSM
Entries 8446392
sumD
DSM board

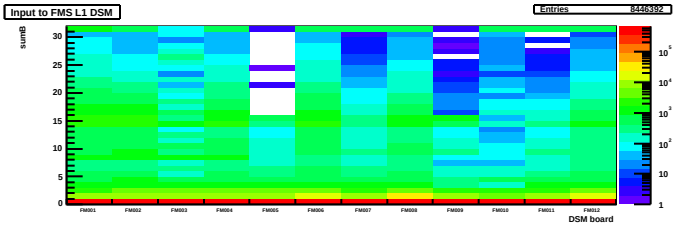

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

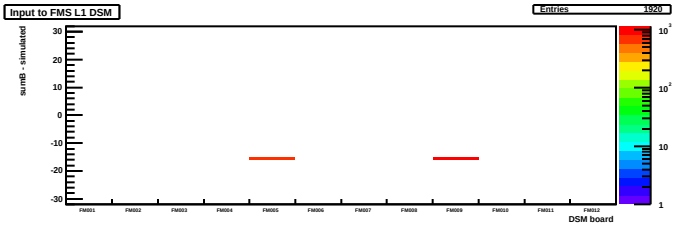

Input to FMS L1 DSM
Entries 8446392
sumC
DSM board

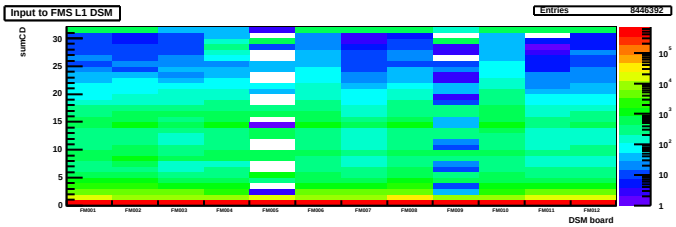

Input to FMS L1 DSM
Entries 34089
sumC - simulated
DSM board

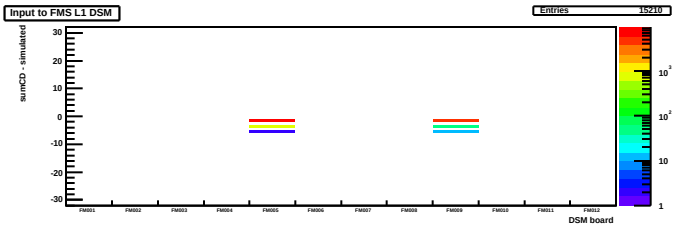

Input to FMS L1 DSM
Entries 8446392
sumBC
DSM board

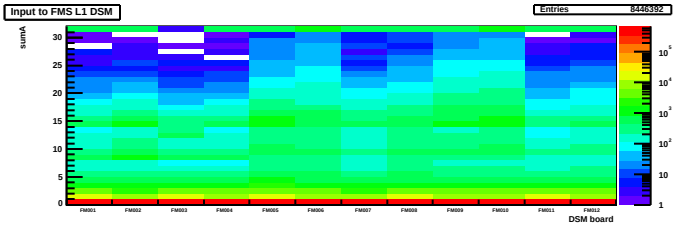

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

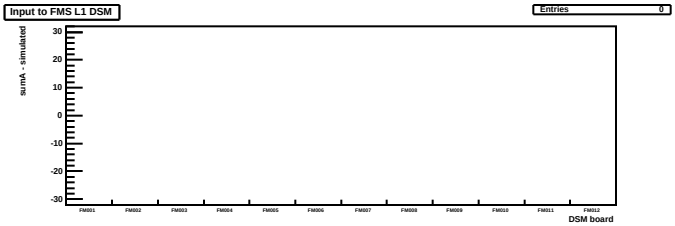

Input to FMS L1 DSM
Entries 8446392
sumB
DSM board

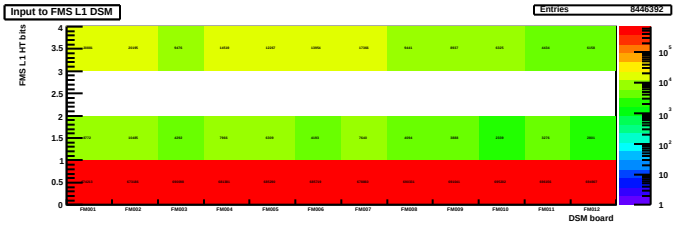

Input to FMS L1 DSM
Entries 1920
sumB - simulated
DSM board

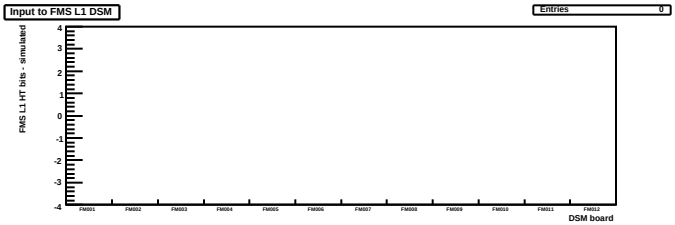

Input to FMS L1 DSM
Entries 8446392
sumCD
DSM board

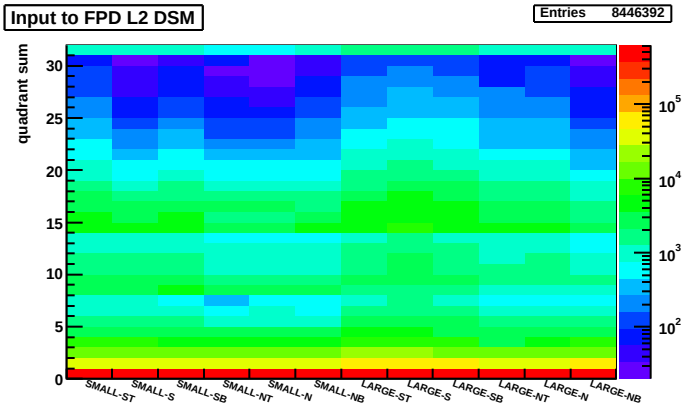

Input to FMS L1 DSM
Entries 15210
sumCD - simulated
DSM board

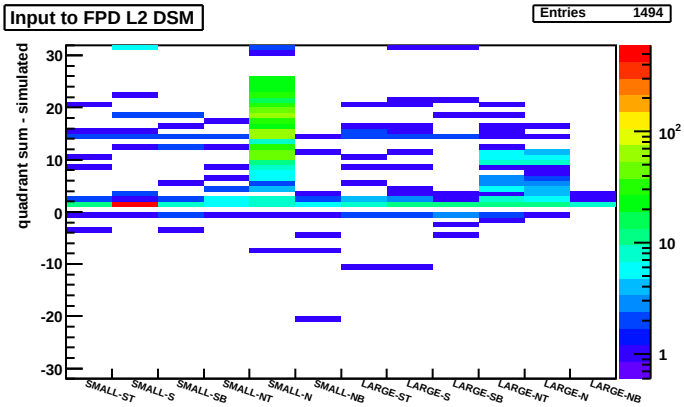

Input to FMS L1 DSM
Entries 8446392
sumA
DSM board

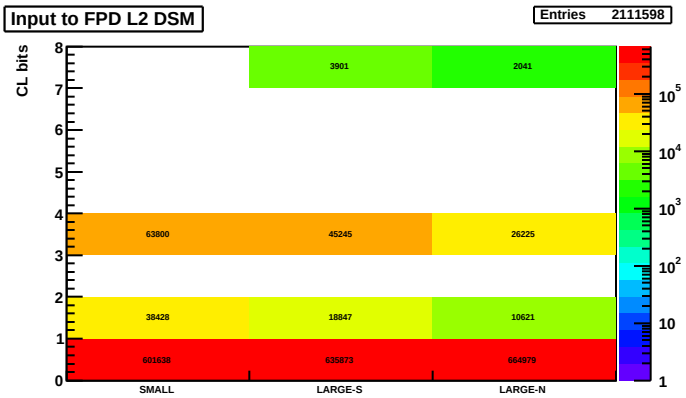

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

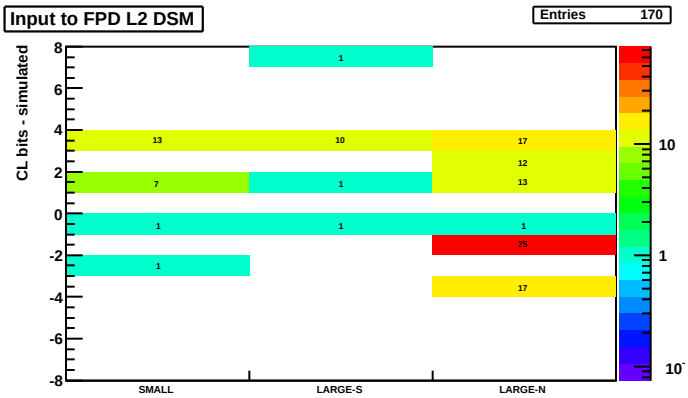

Input to FMS L1 DSM
Entries 8446392
FMS L1 HT bits
DSM board

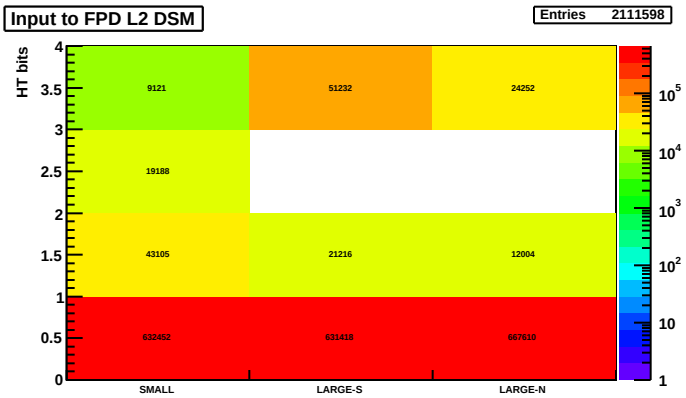

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

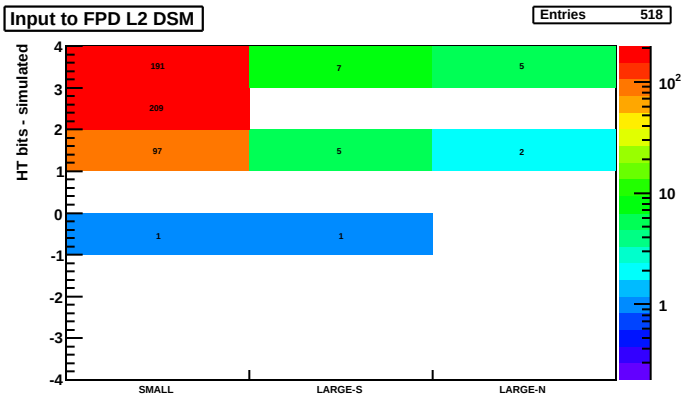

Input to FPD L2 DSM
Entries 8446392
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

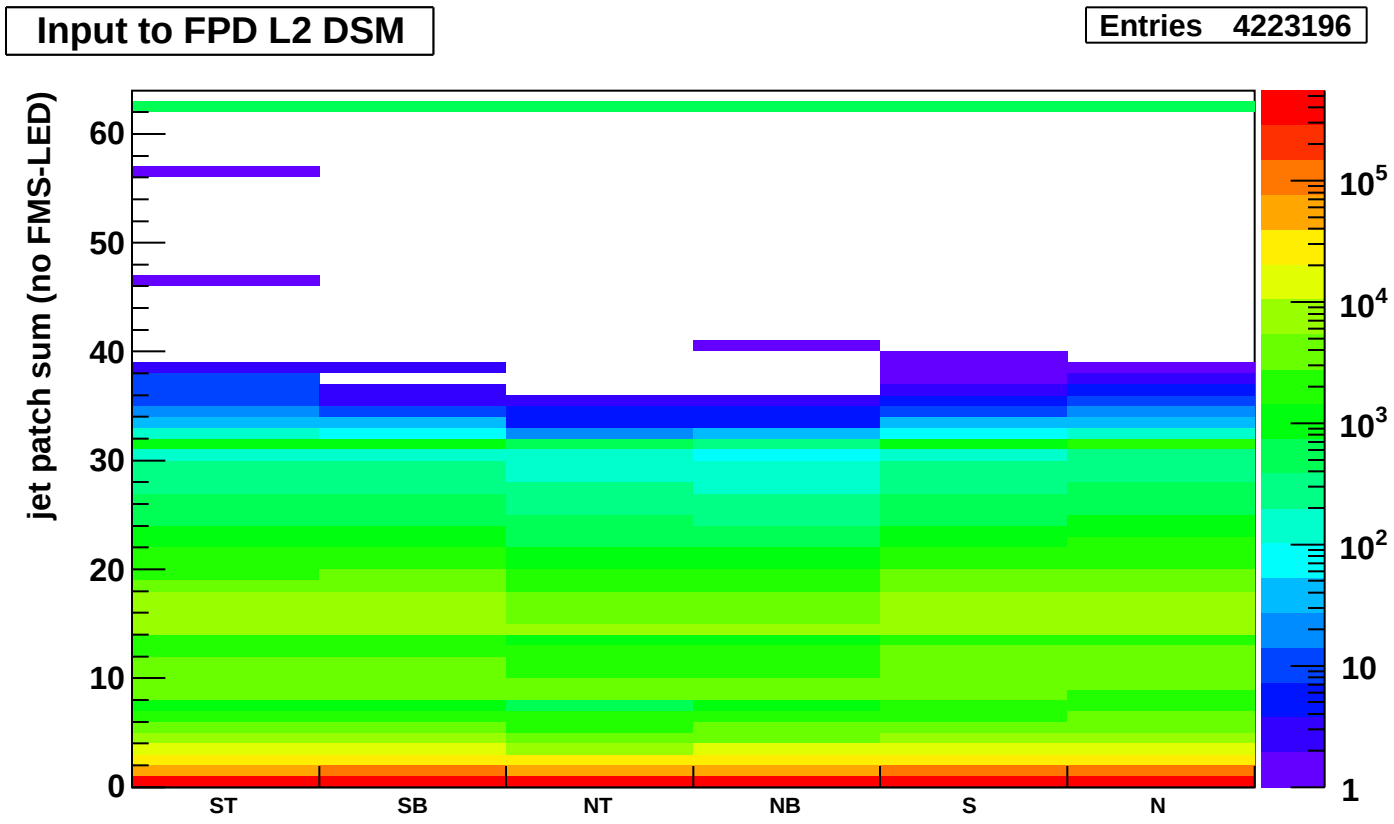

Input to FPD L2 DSM
Entries 1494
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

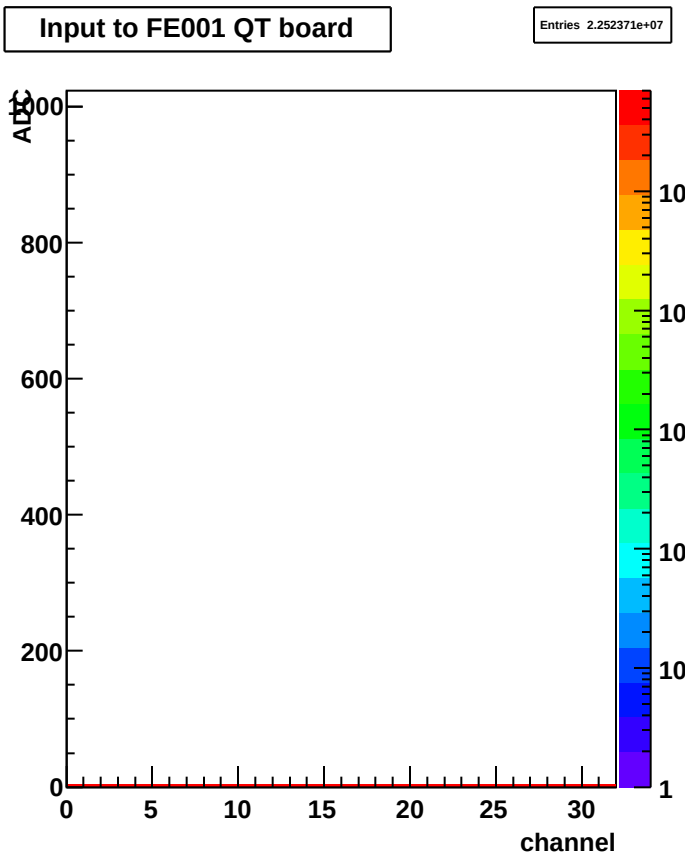

Input to FPD L2 DSM
Entries 2111598
CL bits
3901
2041
63800
45245
26225
38428
18847
10621
601638
635873
664979
SMALL
LARGE-S
LARGE-N

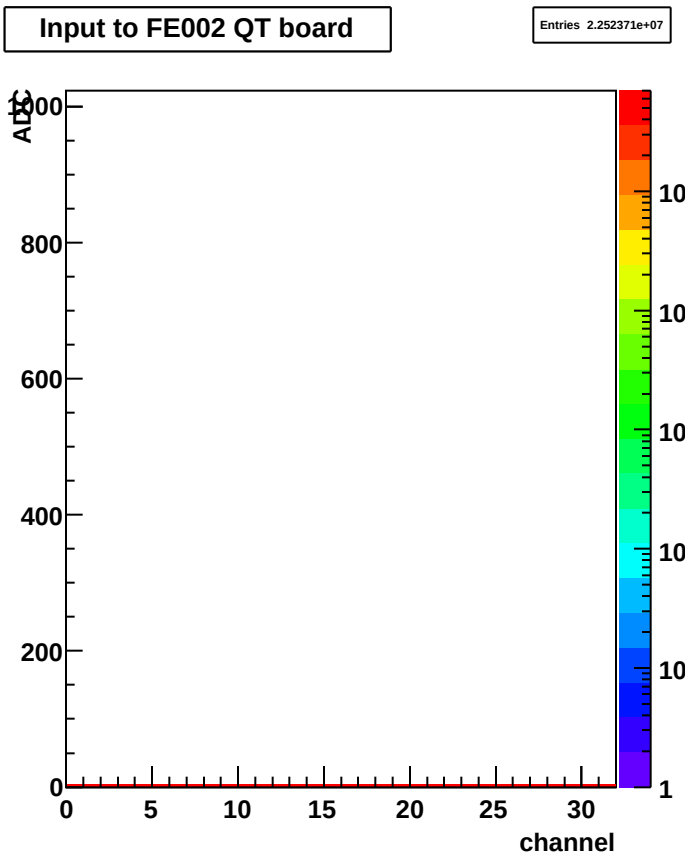

Input to FPD L2 DSM
Entries 170
CL bits - simulated
1
13
10
17
12
7
1
13
1
1
1
75
1
17
SMALL
LARGE-S
LARGE-N

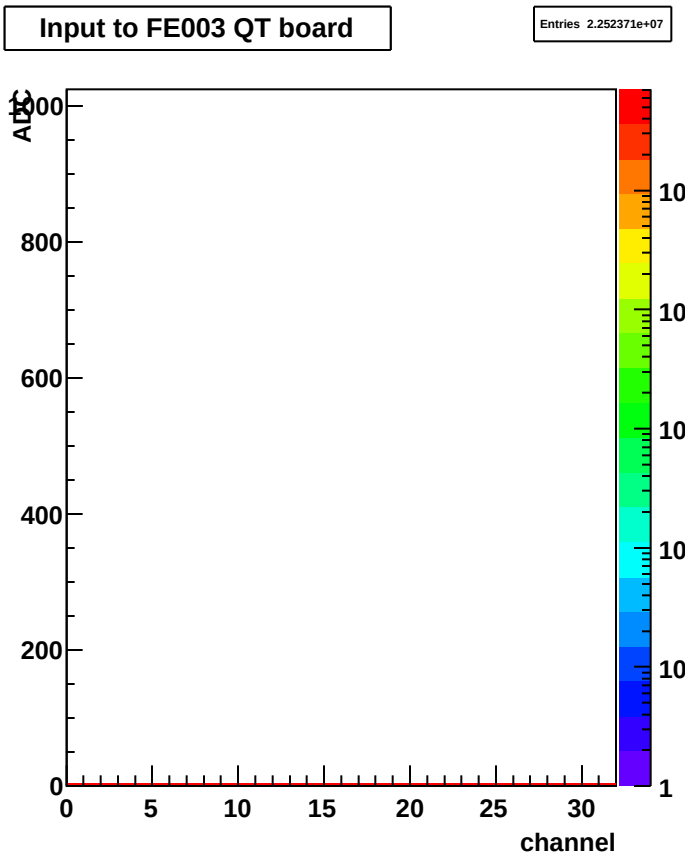

Input to FPD L2 DSM
Entries 2111598
HT bits
9121
51232
24252
19188
43105
21216
12004
632452
631418
667610
SMALL
LARGE-S
LARGE-N

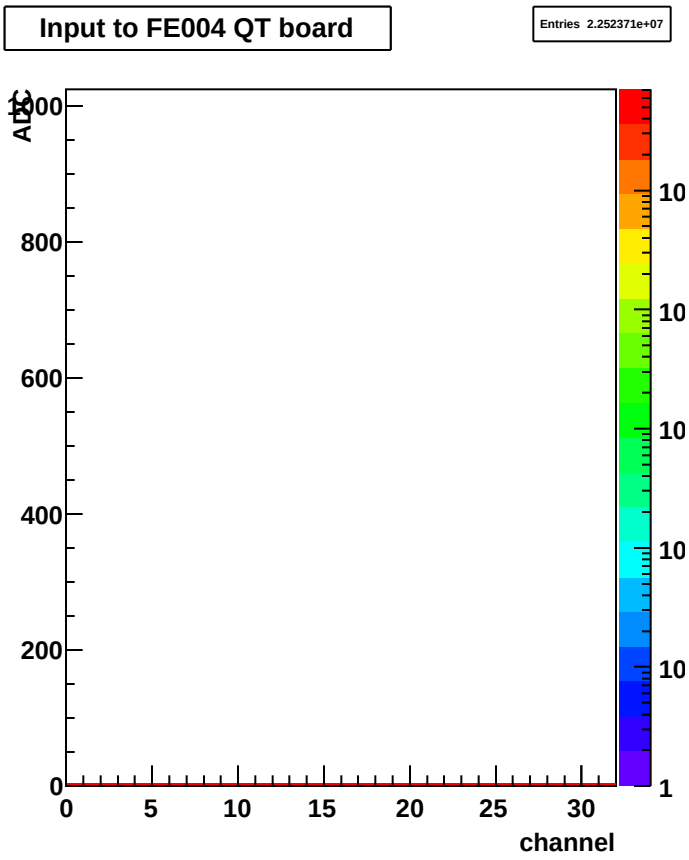

Input to FPD L2 DSM
Entries 518
HT bits - simulated
191
7
5
209
97
5
2
1
1
SMALL
LARGE-S
LARGE-N

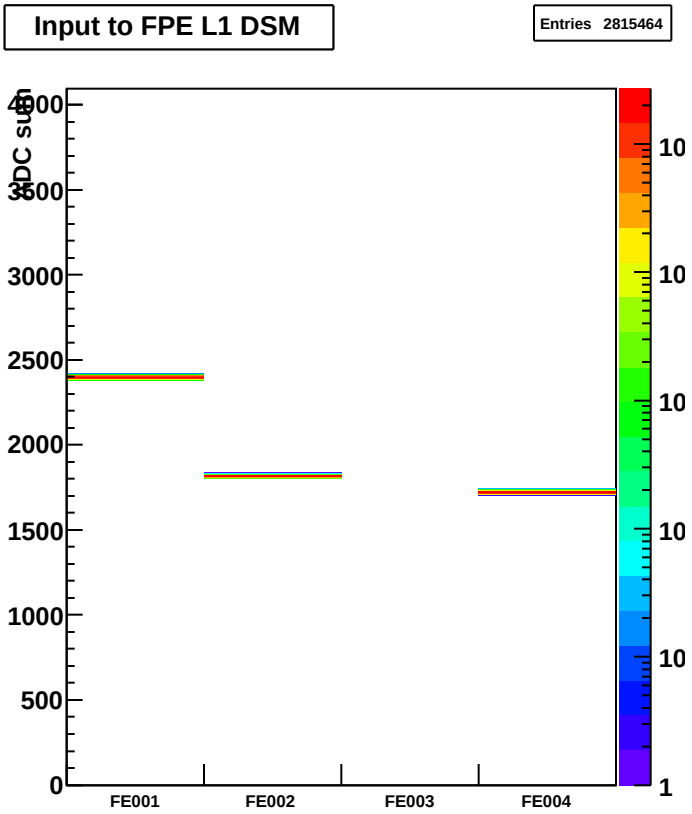

Input to FPD L2 DSM
Entries 4223196
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

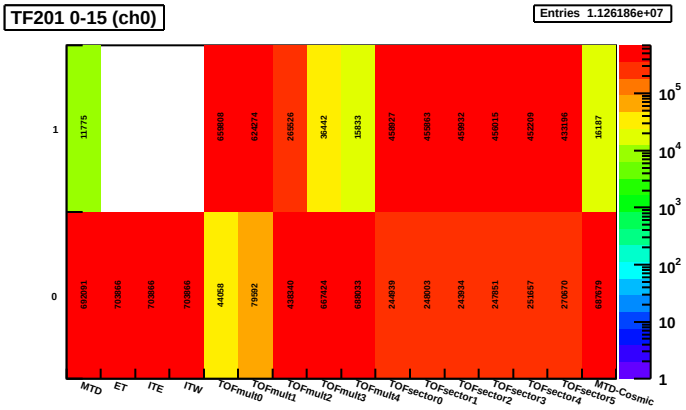

Input to FE001 QT board
Entries 2.252371e+07
ADC
channel

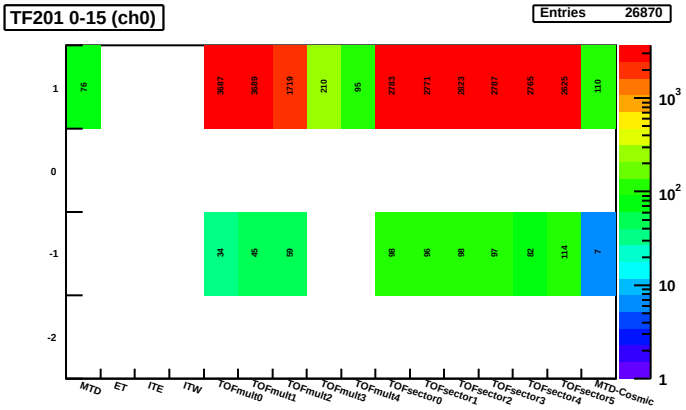

Input to FE002 QT board
Entries 2.252371e+07
ADC
channel

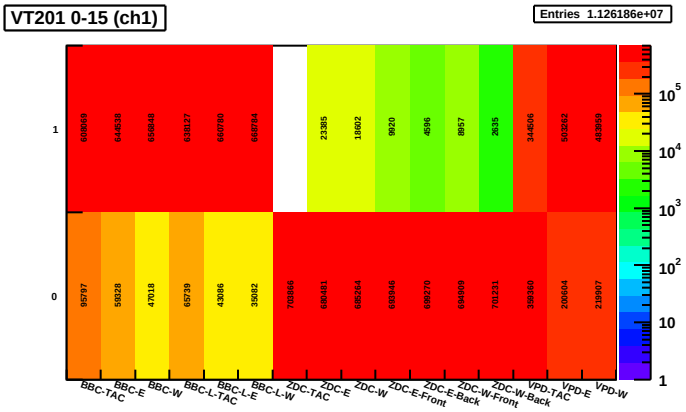

Input to FE003 QT board
Entries 2.252371e+07
ADC
channel

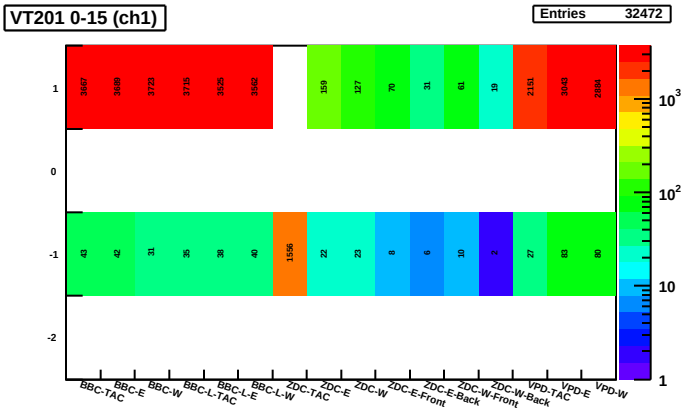

Input to FE004 QT board
Entries 2.252371e+07
ADC
channel


Input to FPE L1 DSM
Entries 2815464
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 1.126186e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 26870
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.126186e+07
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 32472
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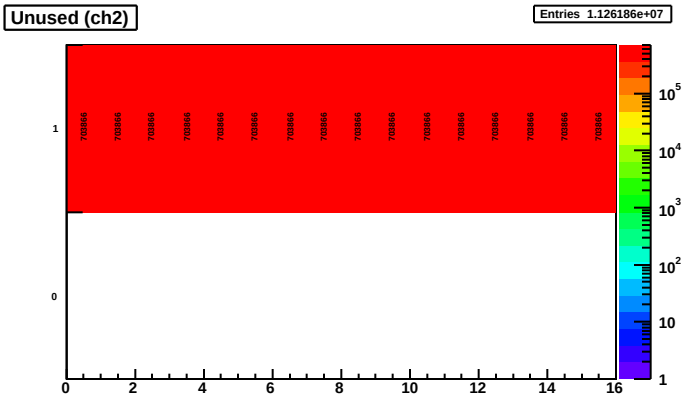
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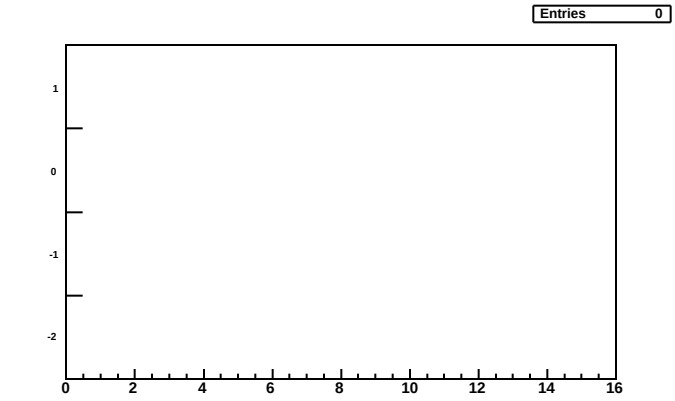
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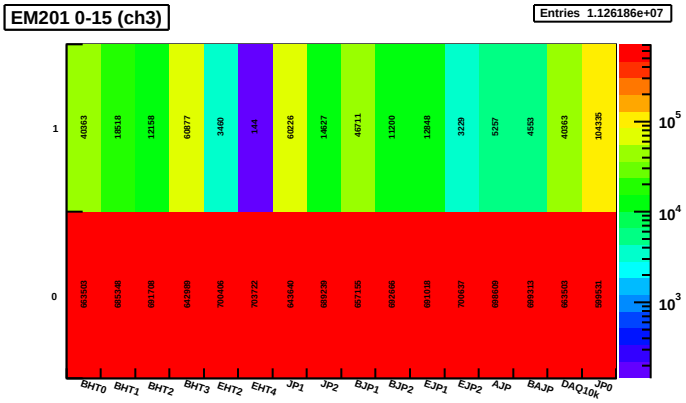
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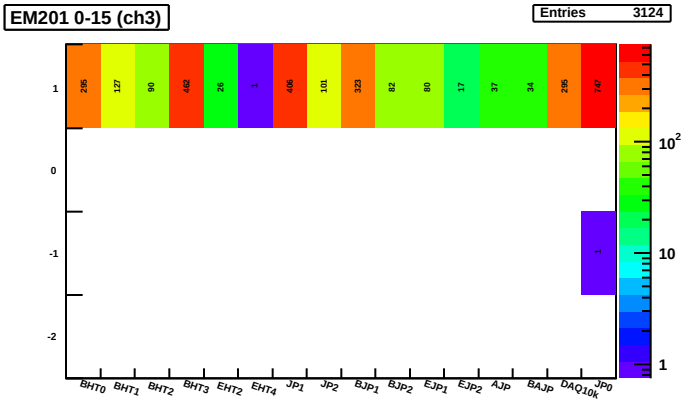
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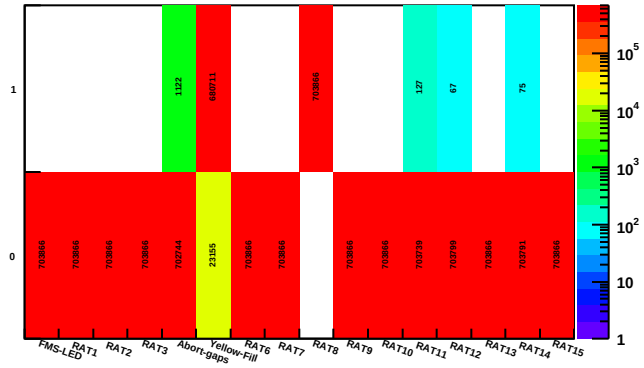
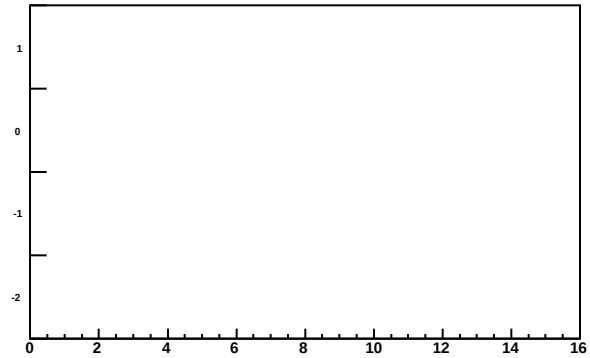
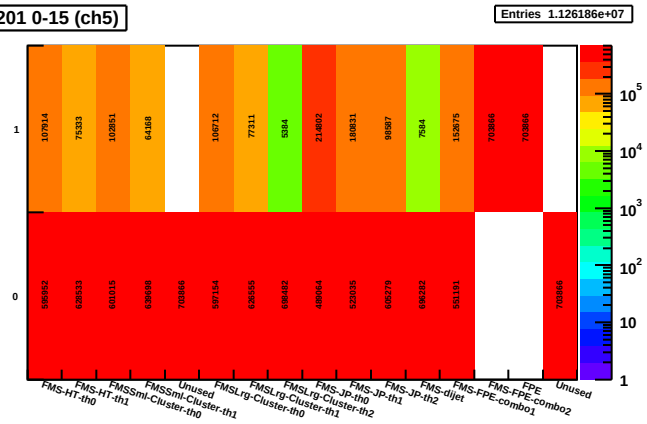
RAT board (ch4)

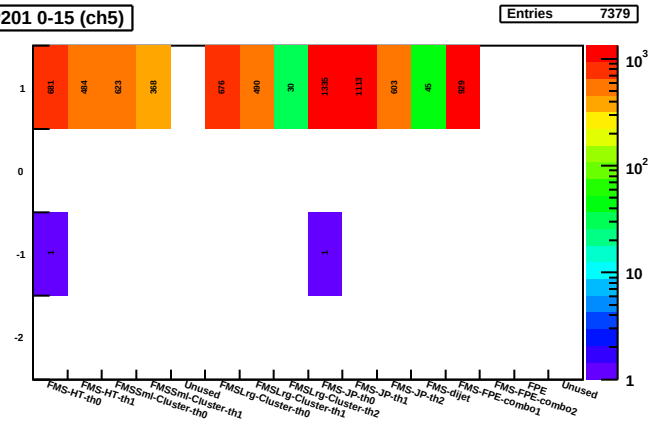




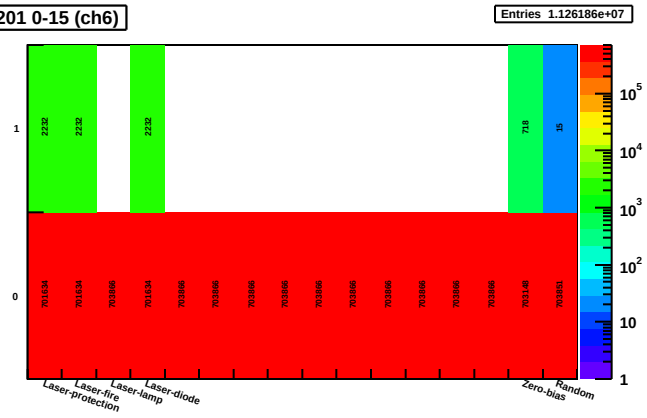
FP201 0-15 (ch5)

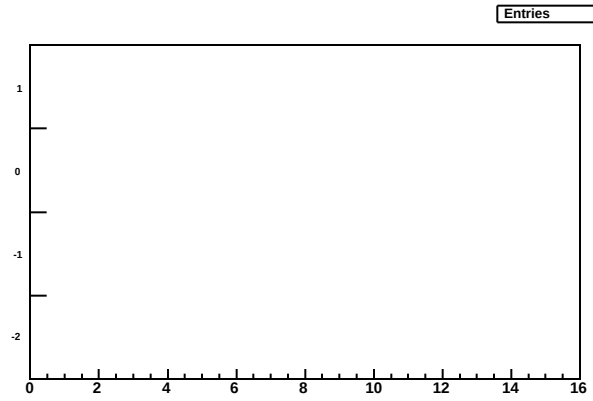
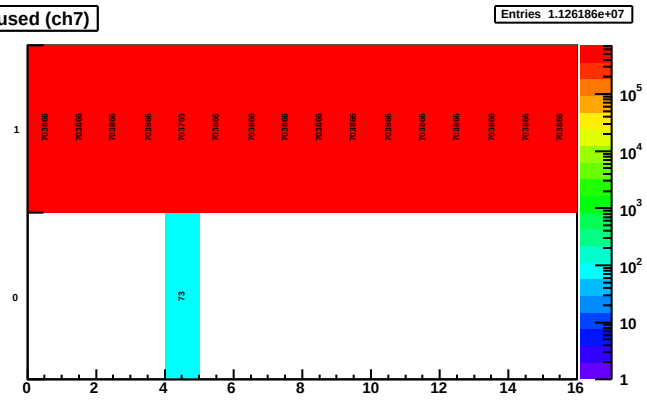
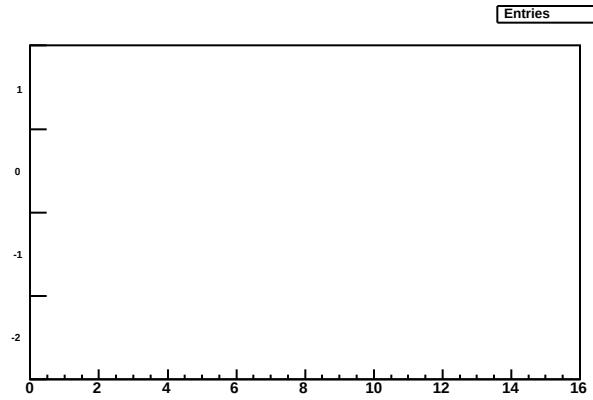


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)