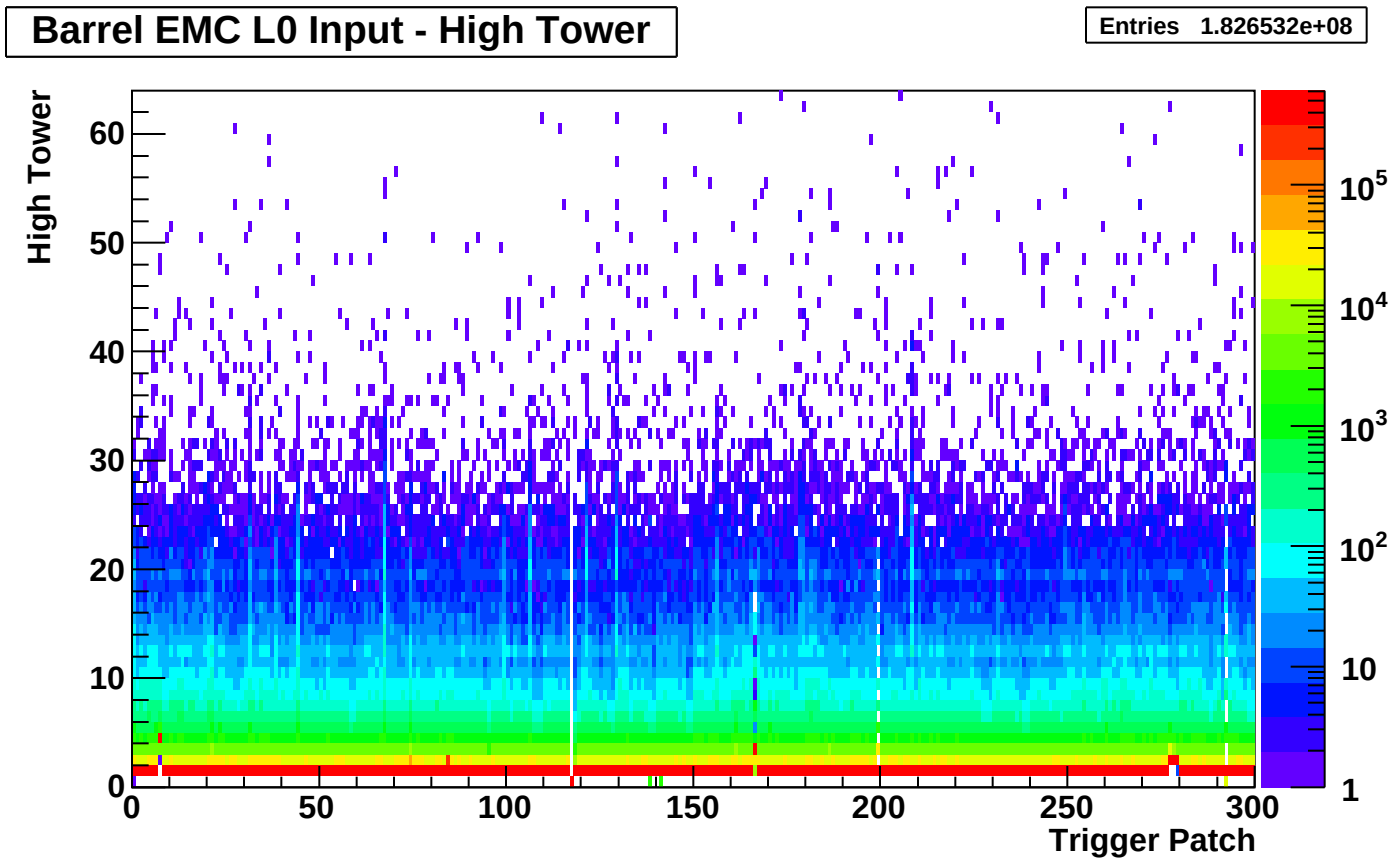
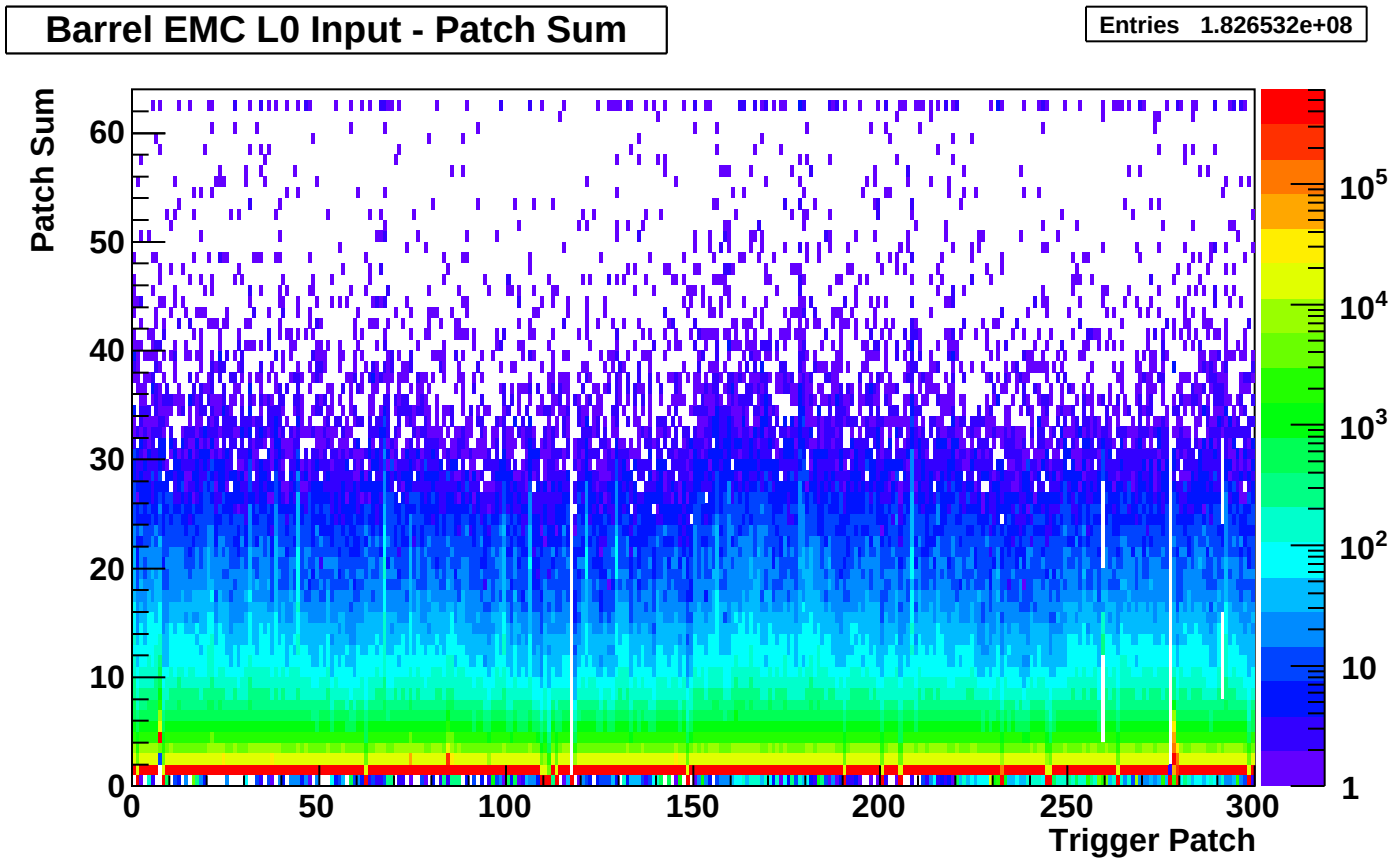
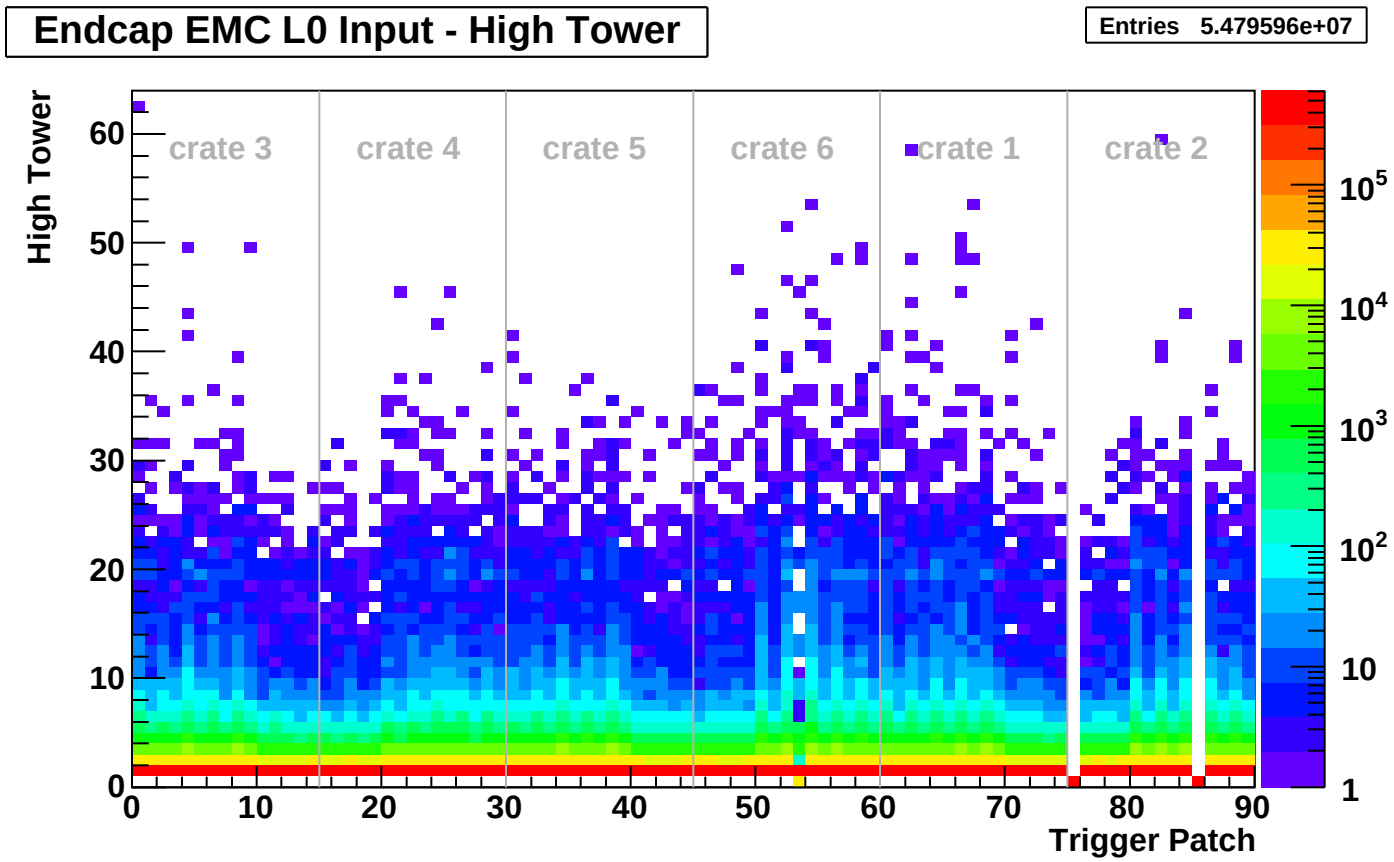
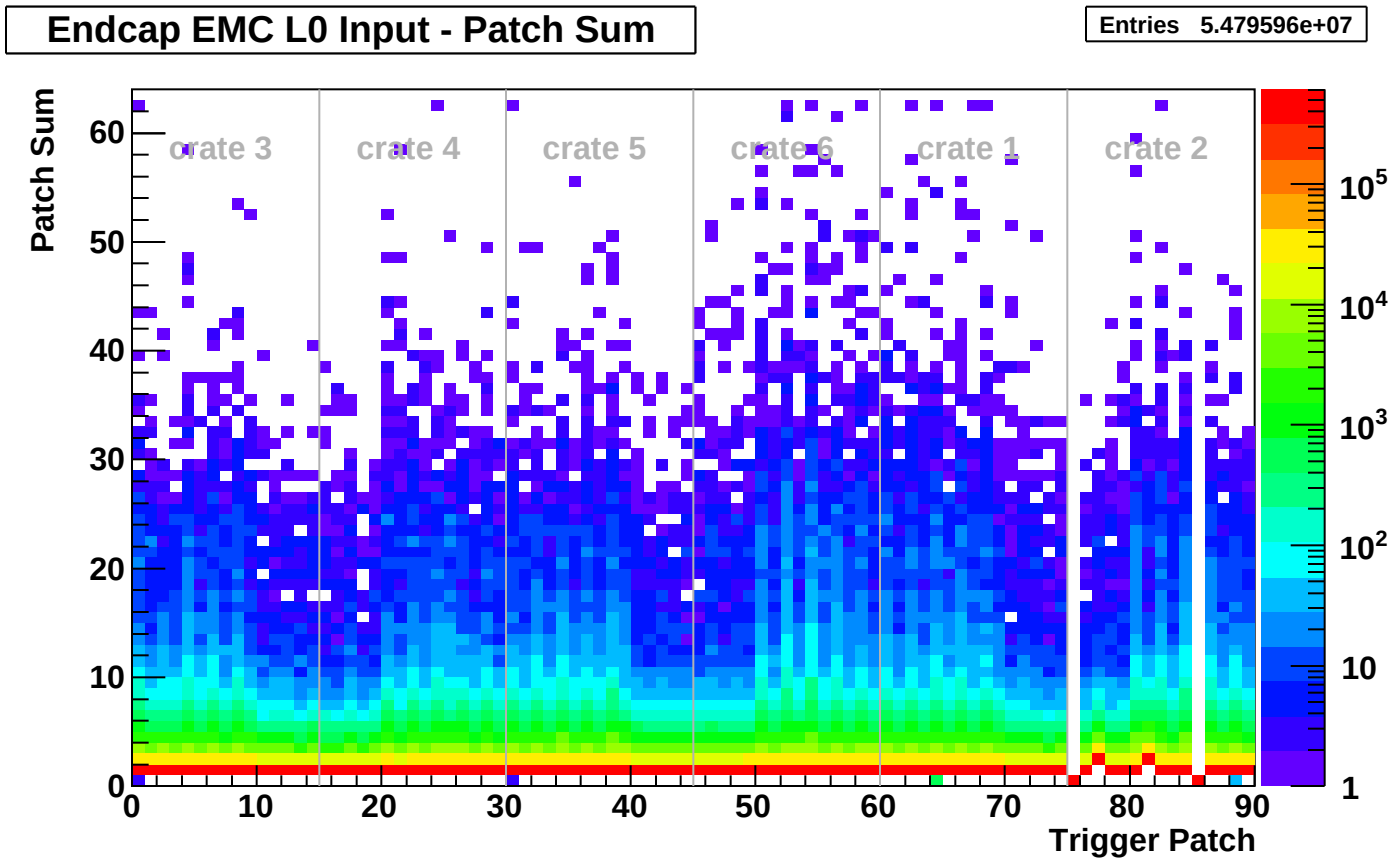
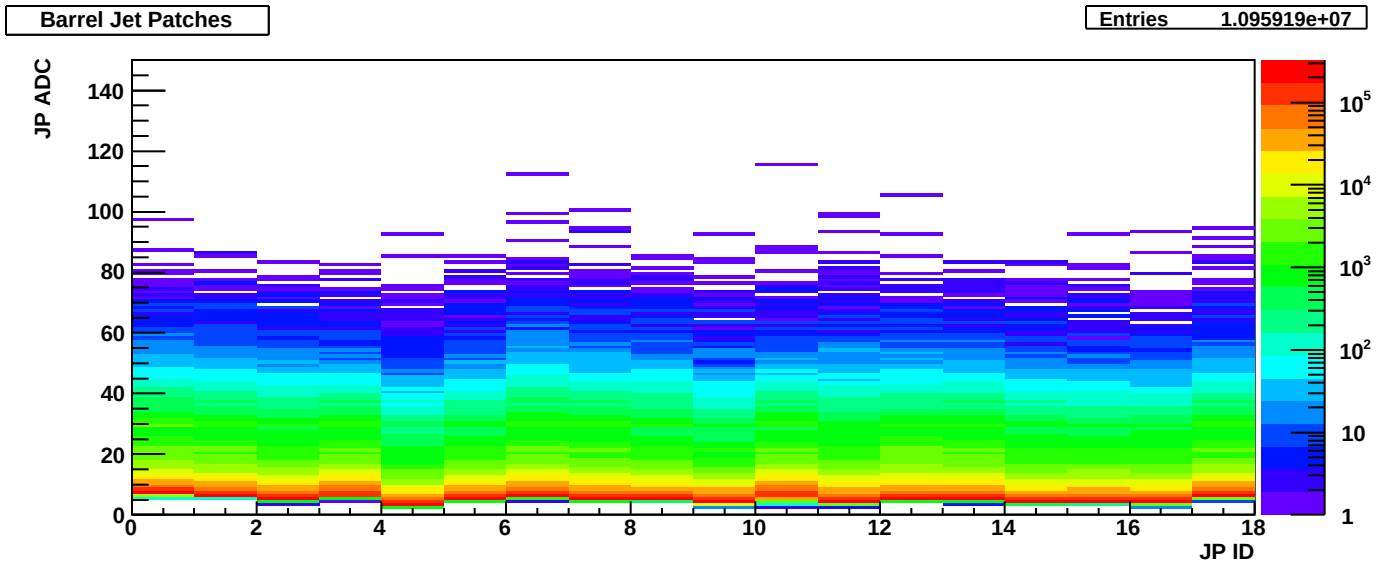
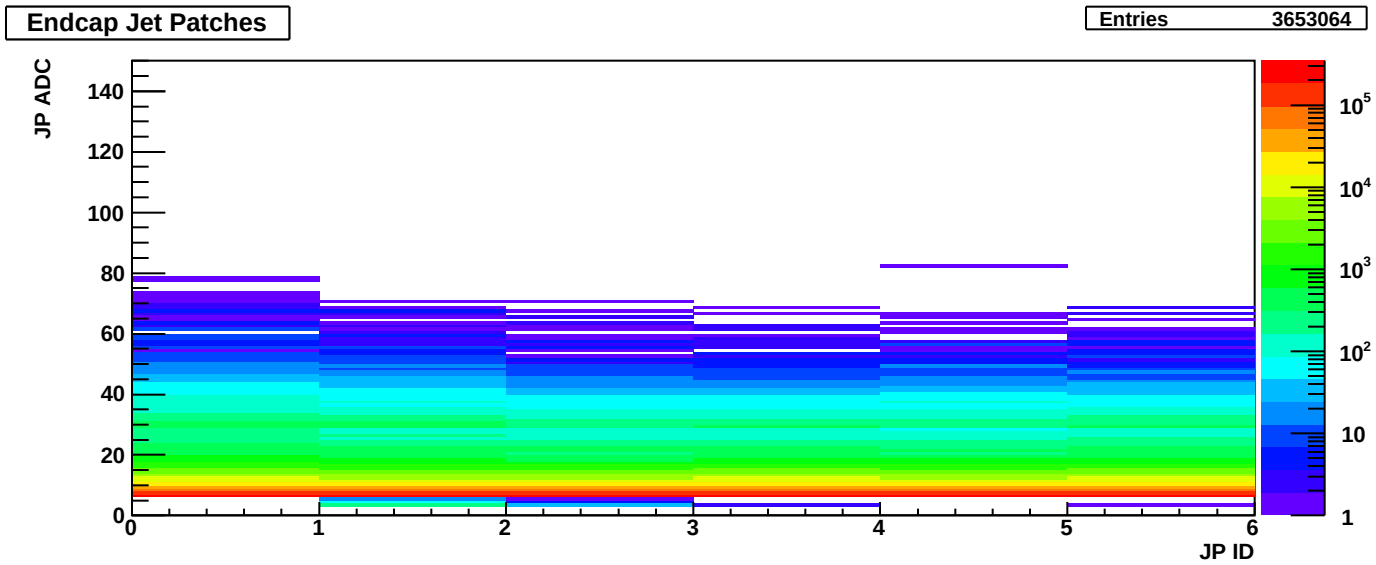

Barrel EMC L0 Input - High Tower
Entries 1.826532e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

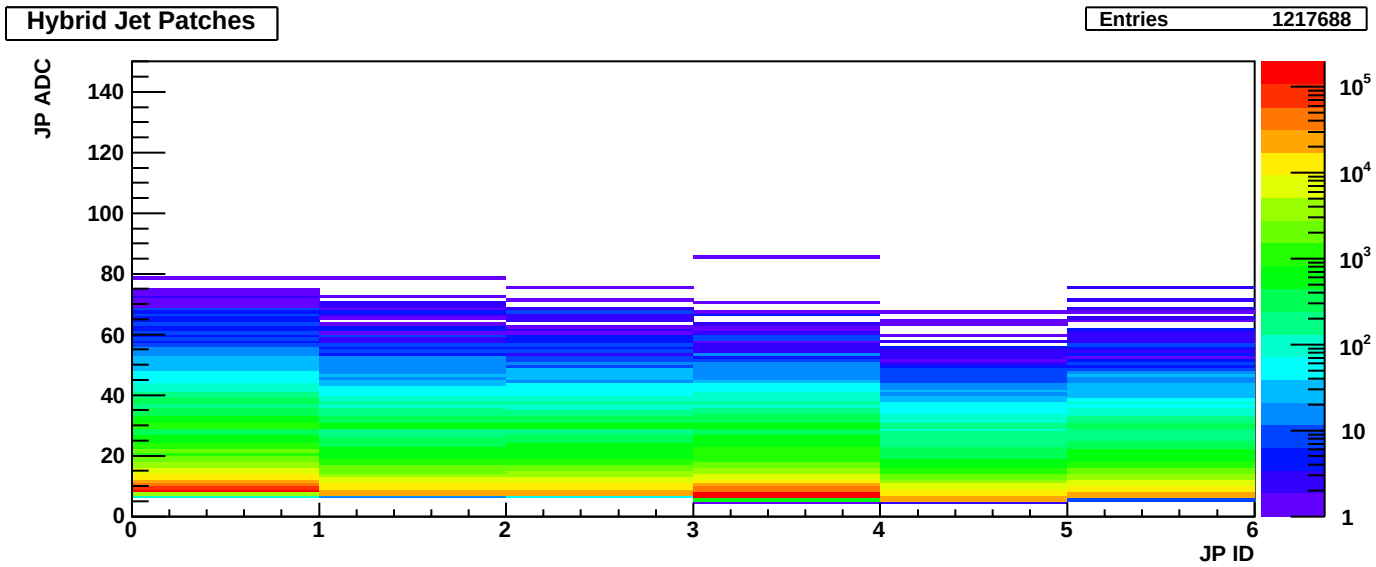

Barrel EMC L0 Input - Patch Sum
Entries 1.826532e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

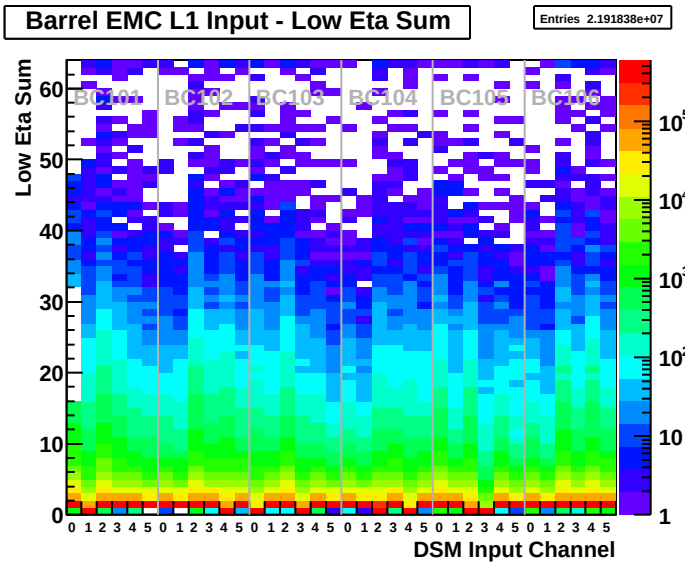

Endcap EMC L0 Input - High Tower
Entries 5.479596e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

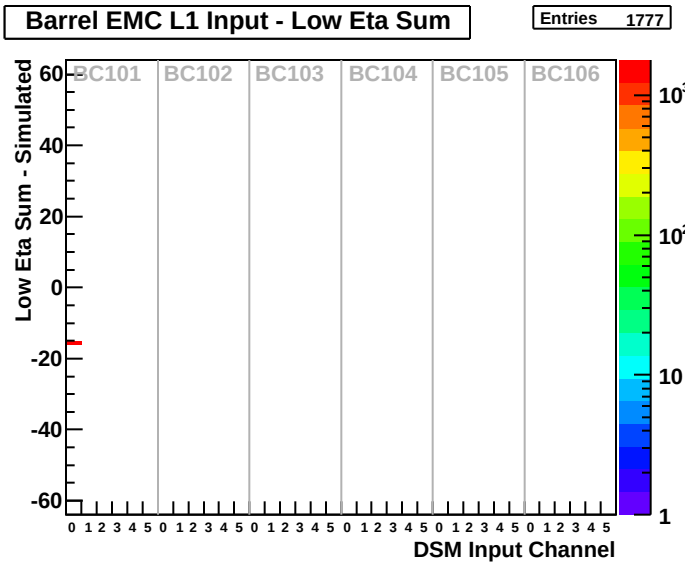

Endcap EMC L0 Input - Patch Sum
Entries 5.479596e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

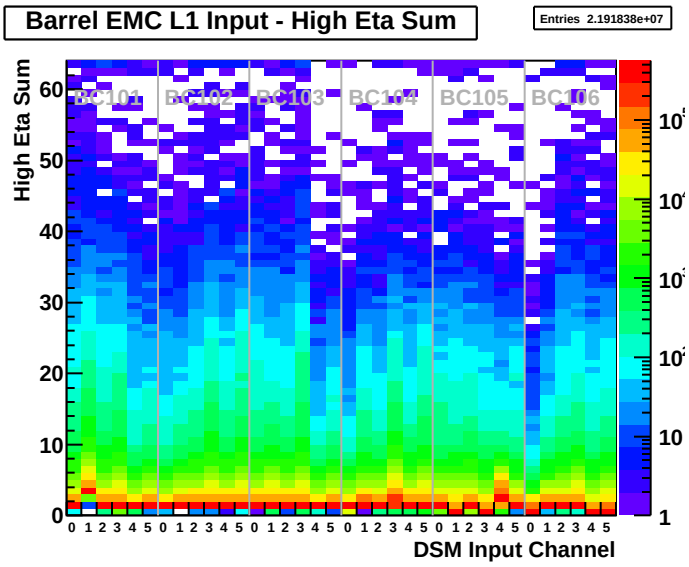

Barrel Jet Patches
Entries 1.095919e+07
JP ADC
JP ID

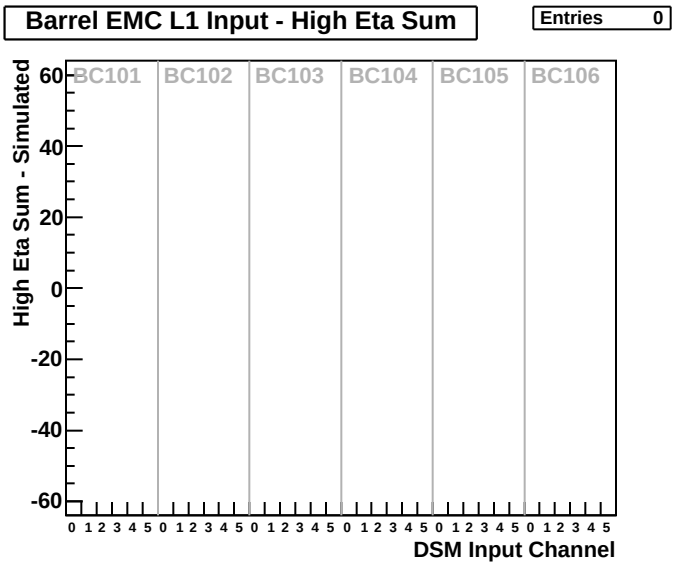

Endcap Jet Patches
Entries 3653064
JP ADC
JP ID

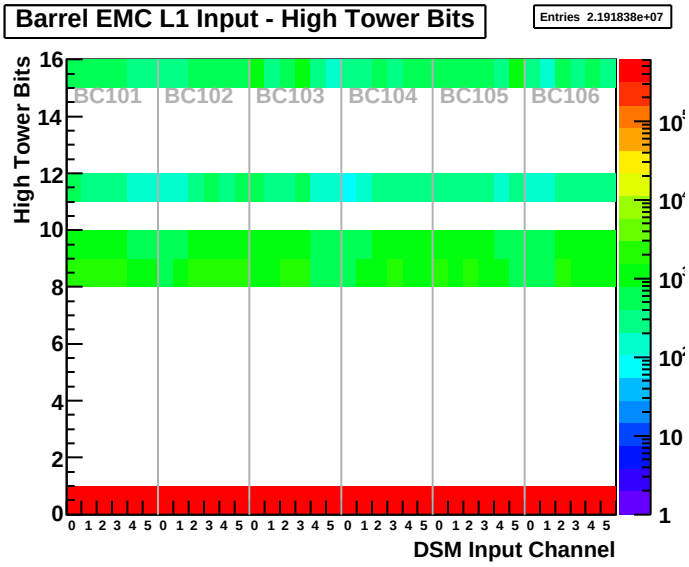

Hybrid Jet Patches
Entries 1217688
JP ADC
JP ID

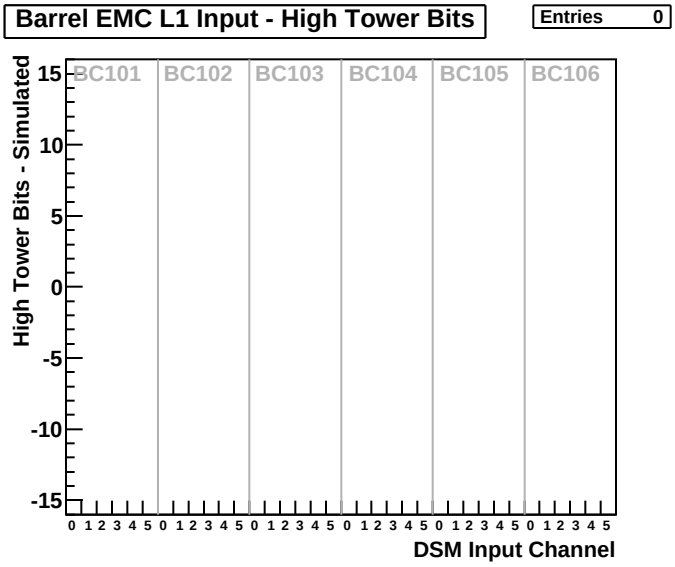

Barrel EMC L1 Input - Low Eta Sum
Entries 2.191838e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

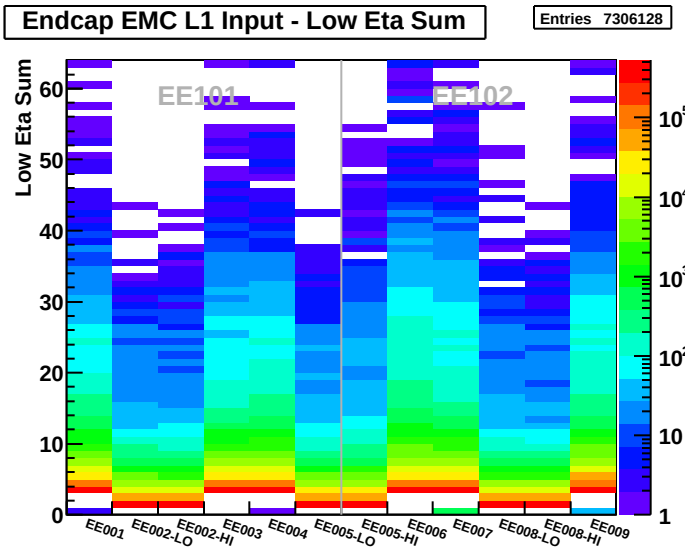

Barrel EMC L1 Input - Low Eta Sum
Entries 1777
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

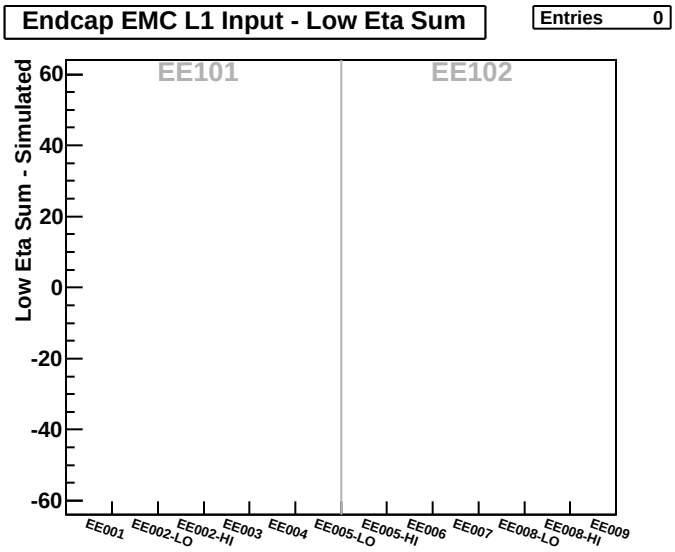

Barrel EMC L1 Input - High Eta Sum
Entries 2.191838e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

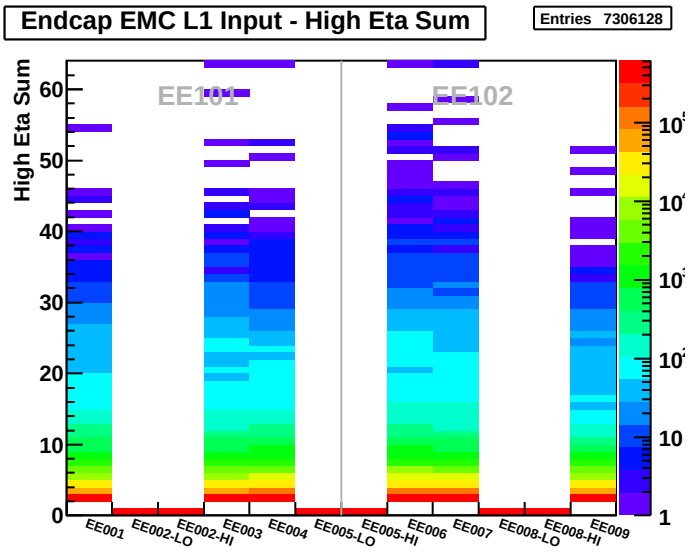

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

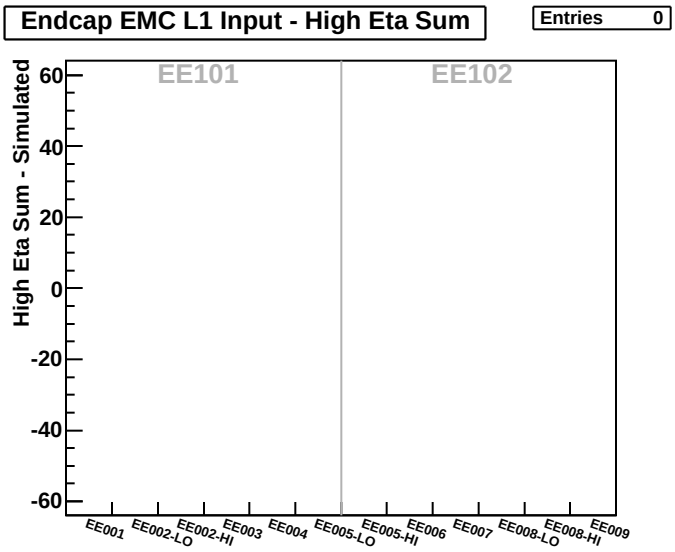

Barrel EMC L1 Input - High Tower Bits
Entries 2.191838e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

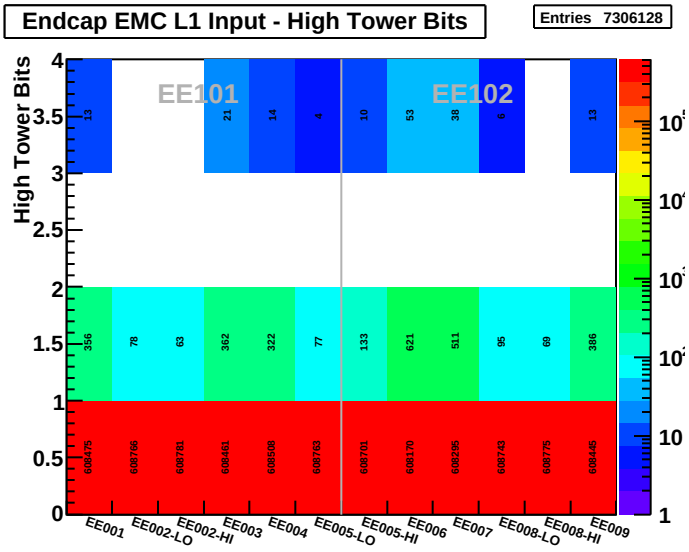

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

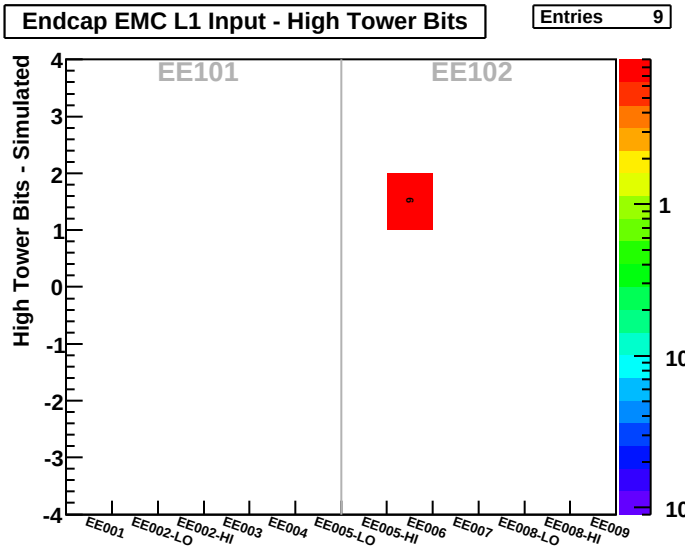

Endcap EMC L1 Input - Low Eta Sum
Entries 7306128
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

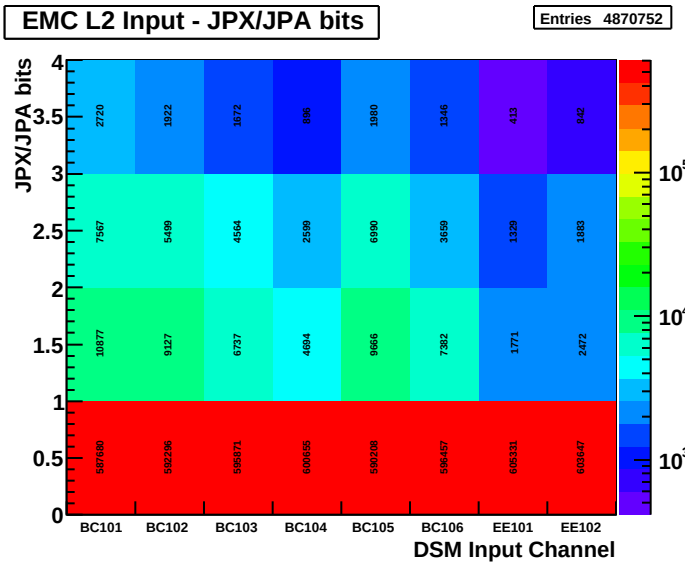

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

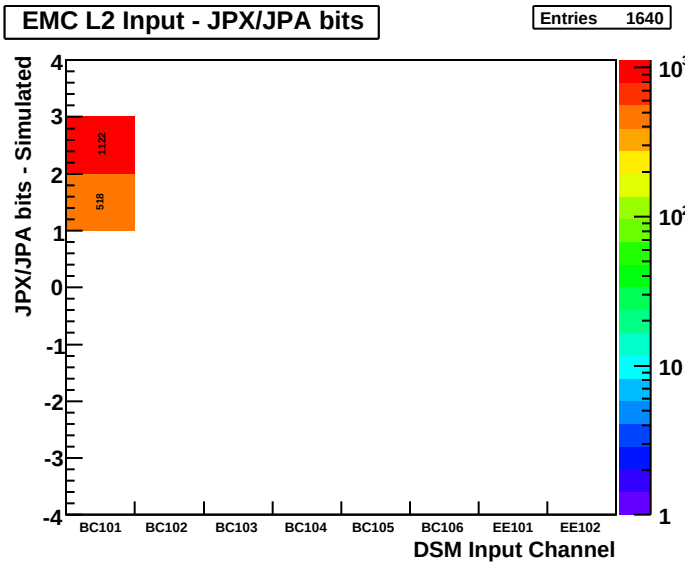

Endcap EMC L1 Input - High Eta Sum
Entries 7306128
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

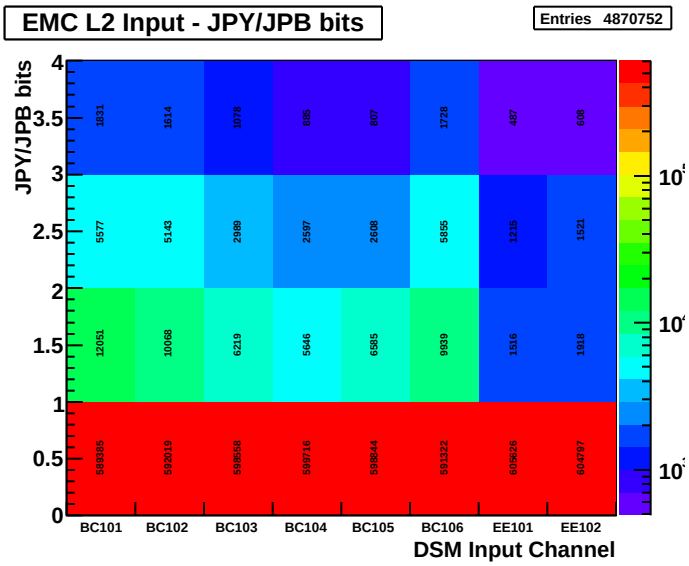

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

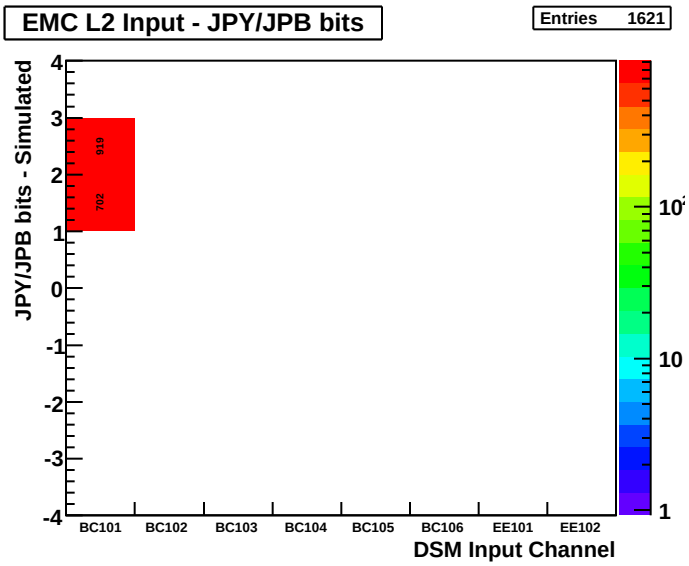

Endcap EMC L1 Input - High Tower Bits
Entries 7306128
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

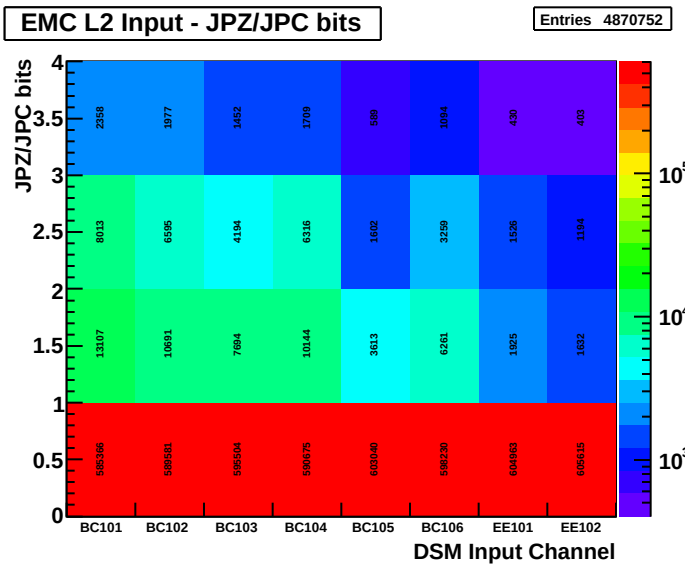

Endcap EMC L1 Input - High Tower Bits
Entries 9
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

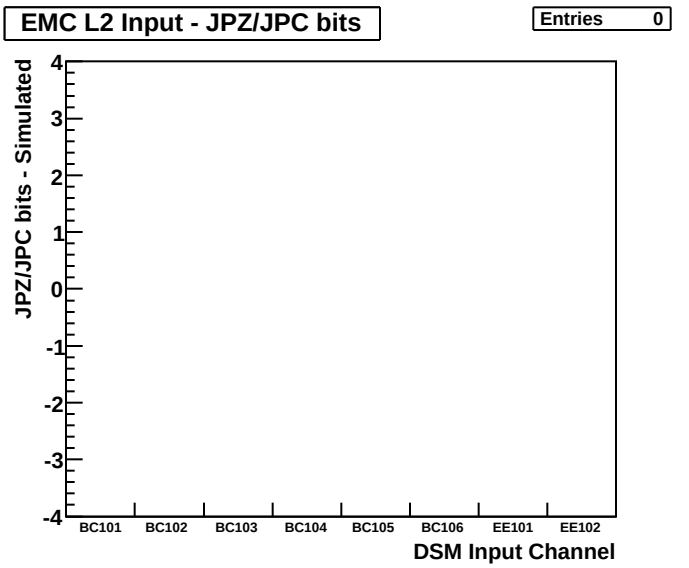

EMC L2 Input - JPX/JPA bits
Entries 4870752
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2720 1922 1672 896 1980 1346 413 842
7567 5499 4564 2599 6990 3659 1329 1883
10877 9127 6737 4694 9666 7382 1771 2472
587680 592296 595871 600655 590208 598457 605331 603647

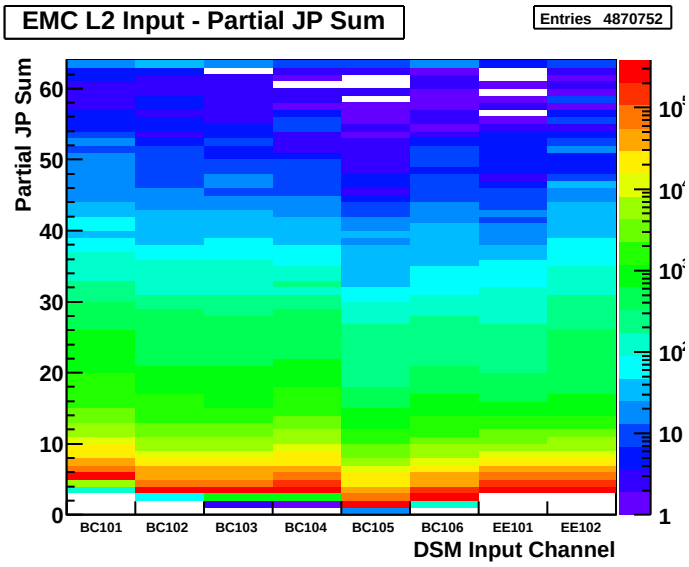

EMC L2 Input - JPX/JPA bits
Entries 1640
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1122
518

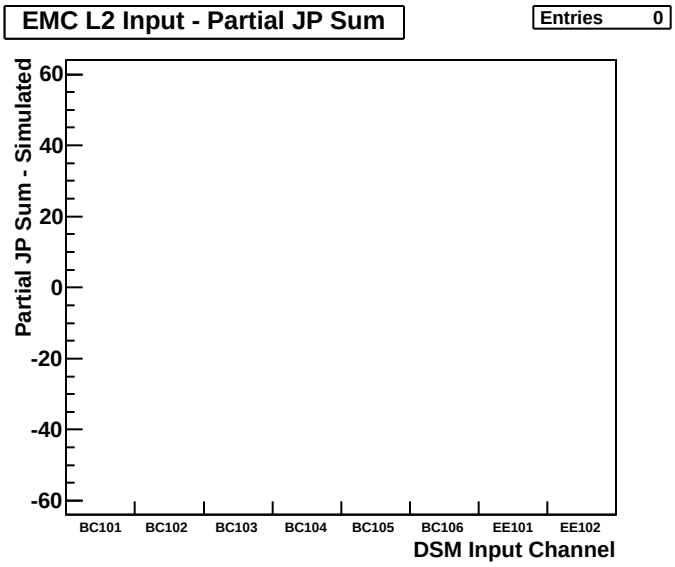

EMC L2 Input - JPY/JPB bits
Entries 4870752
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1831 1614 1078 885 807 1728 487 608
5577 5143 2989 2597 2608 5855 1215 1521
12051 10068 6219 5646 6985 9939 1516 1918
588385 592019 598558 599716 599844 591322 605626 604797

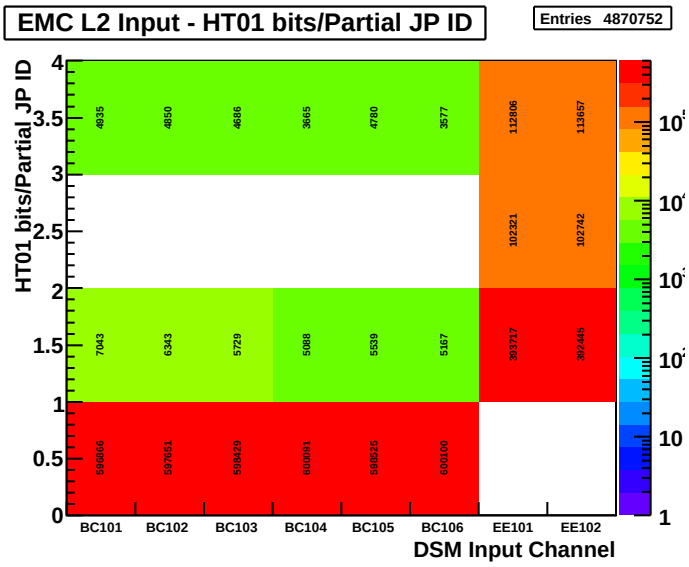

EMC L2 Input - JPY/JPB bits
Entries 1621
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
919
702

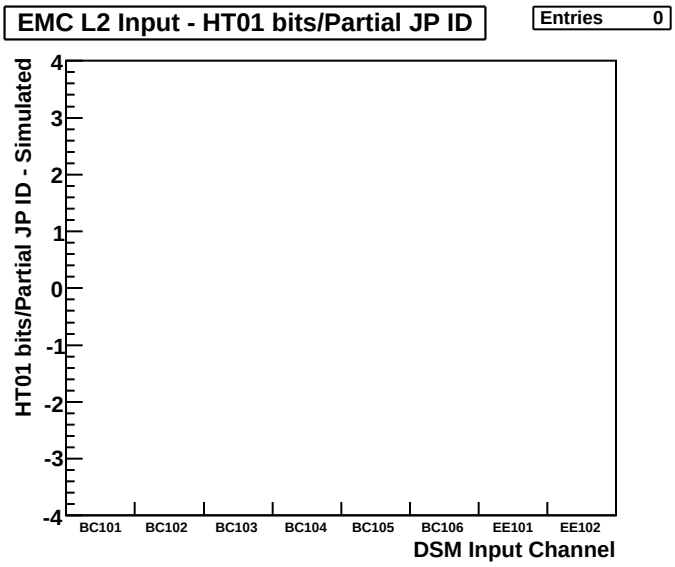

EMC L2 Input - JPZ/JPC bits
Entries 4870752
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2358 1977 1452 1709 589 1094 430 403
8013 6595 4194 6316 1602 3259 1526 1194
13107 10691 7694 10144 3613 6261 1925 1632
585366 589581 595504 590675 603040 598230 604963 605615

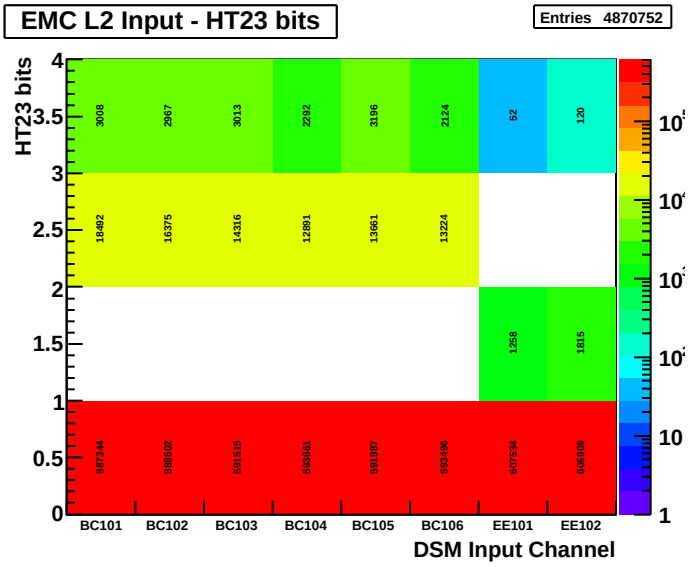

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

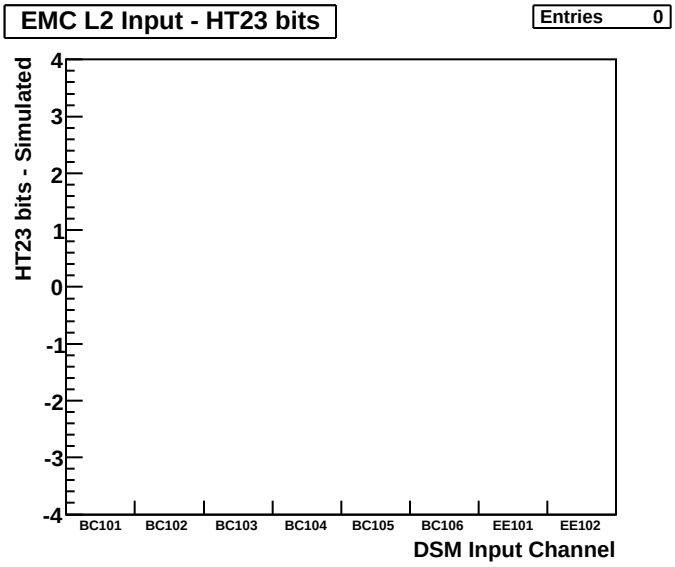

EMC L2 Input - Partial JP Sum
Entries 4870752
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

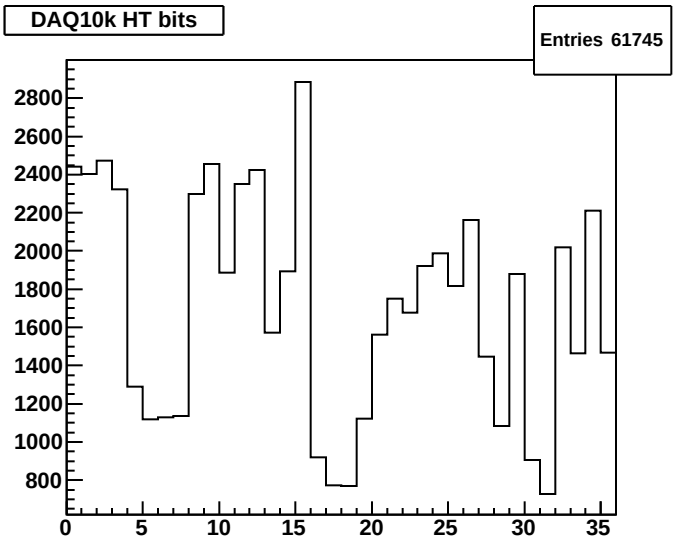

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

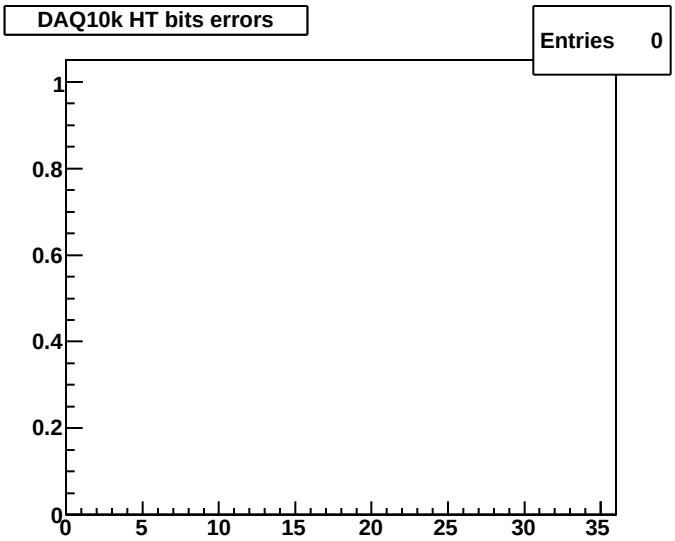

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4870752
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

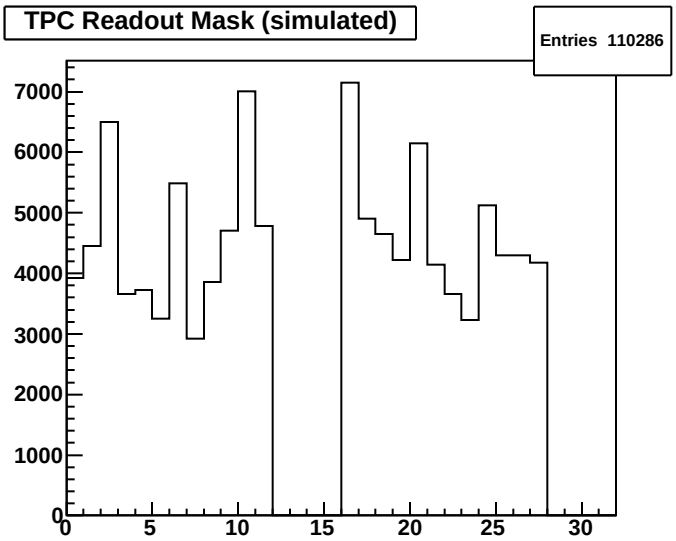

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

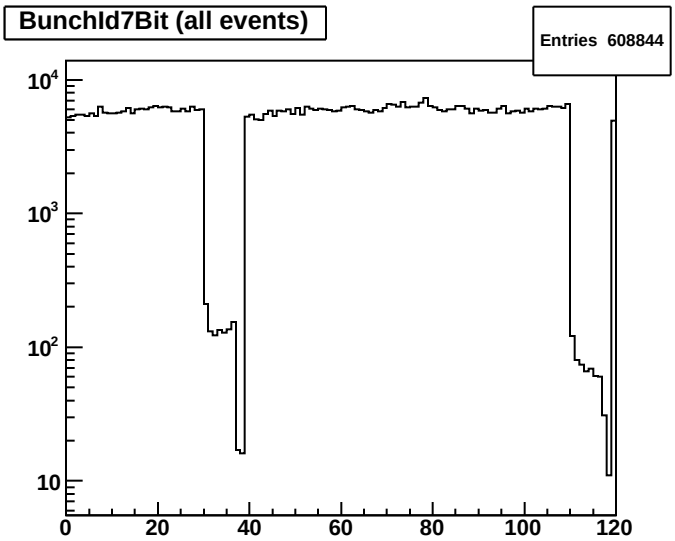

EMC L2 Input - HT23 bits
Entries 4870752
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

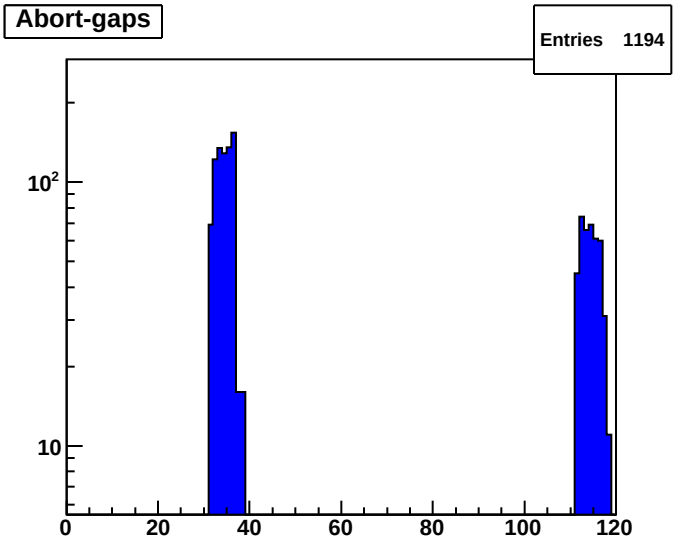

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

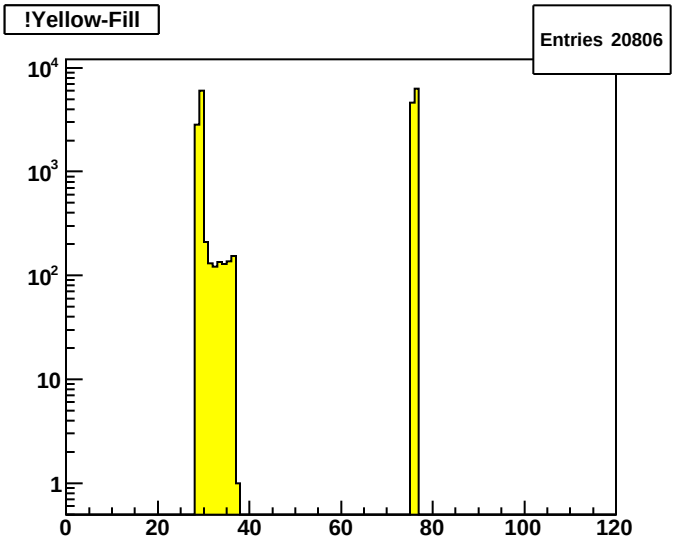

DAQ10k HT bits
Entries 61745

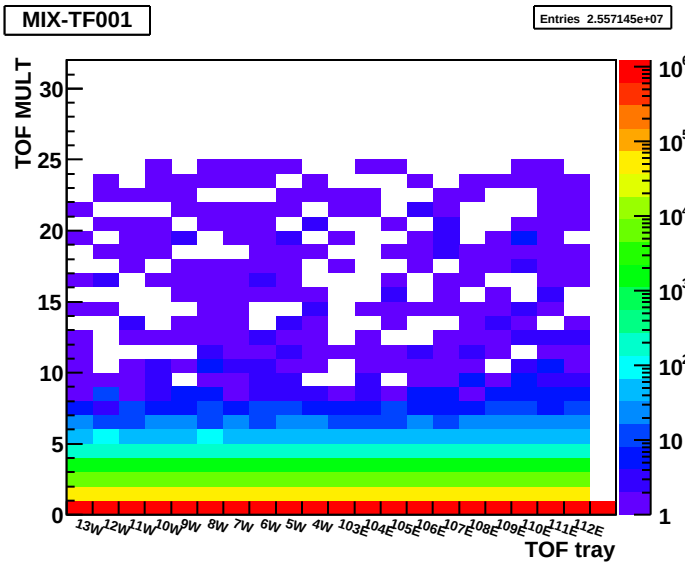

DAQ10k HT bits errors
Entries 0

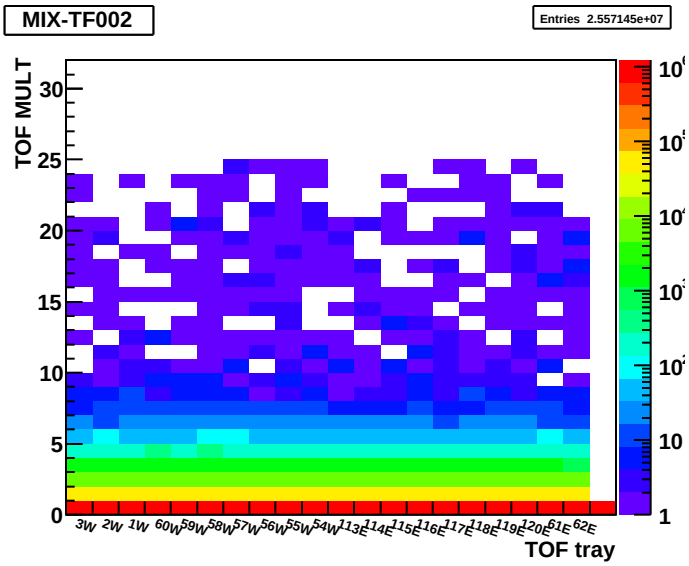

TPC Readout Mask (simulated)
Entries 110286

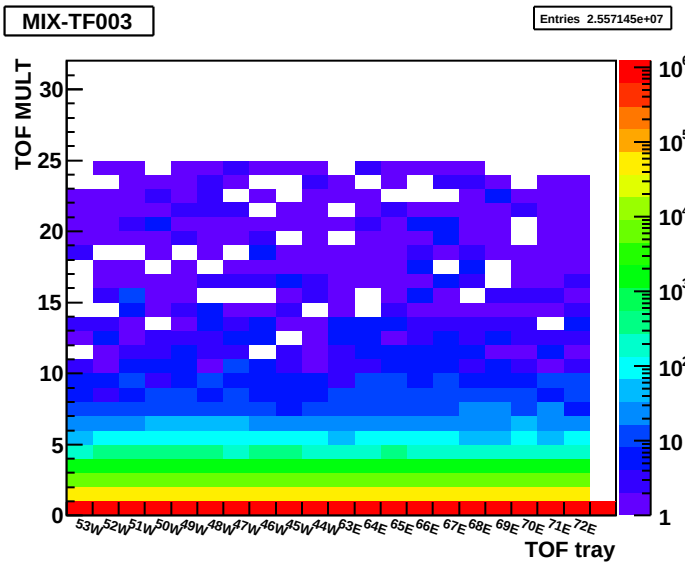

BunchId7Bit (all events)
Entries 608844

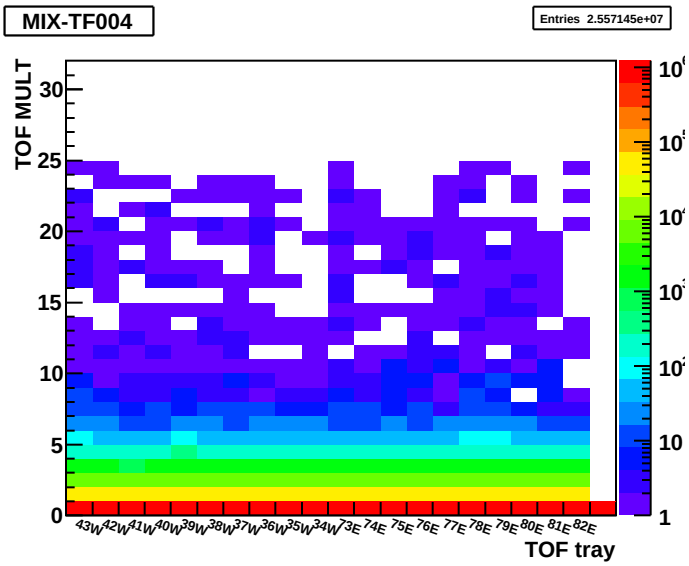

Abort-gaps
Entries 1194

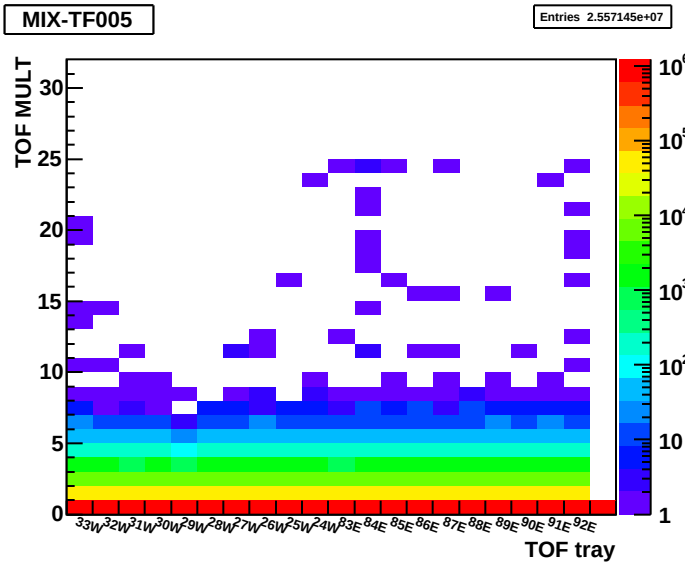

!Yellow-Fill
Entries 20806

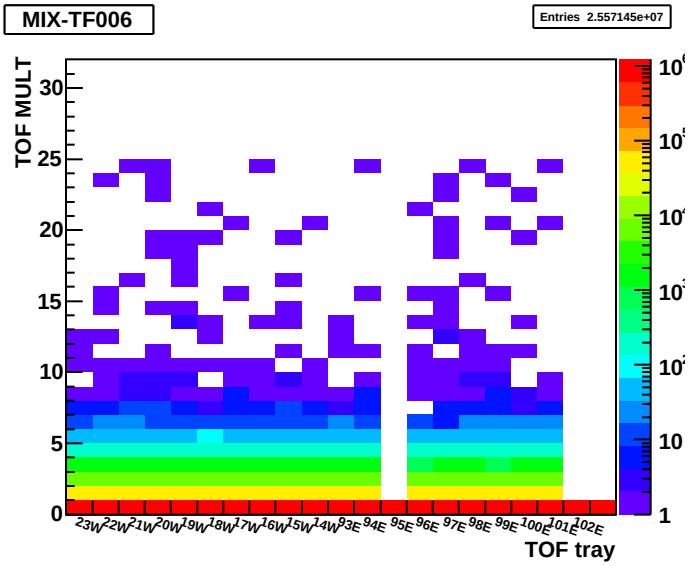

MIX-TF001
Entries 2.557145e+07
TOF MULT
TOF tray

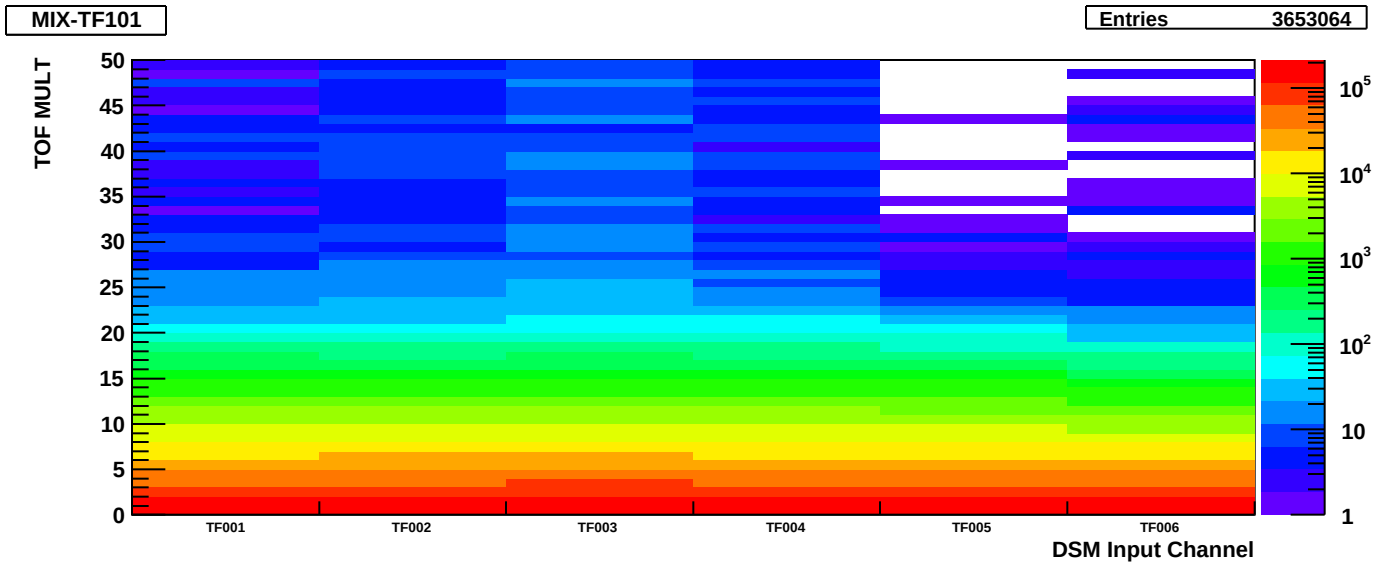

MIX-TF002
Entries 2.557145e+07
TOF MULT
TOF tray

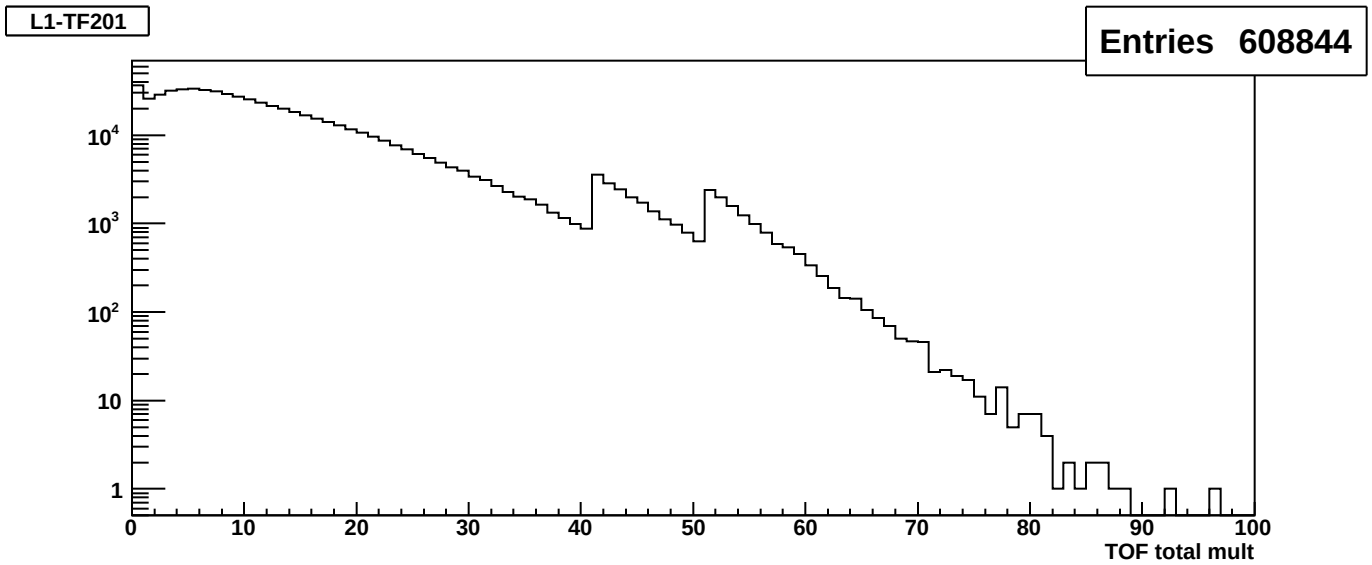

MIX-TF003
Entries 2.557145e+07
TOF MULT
TOF tray

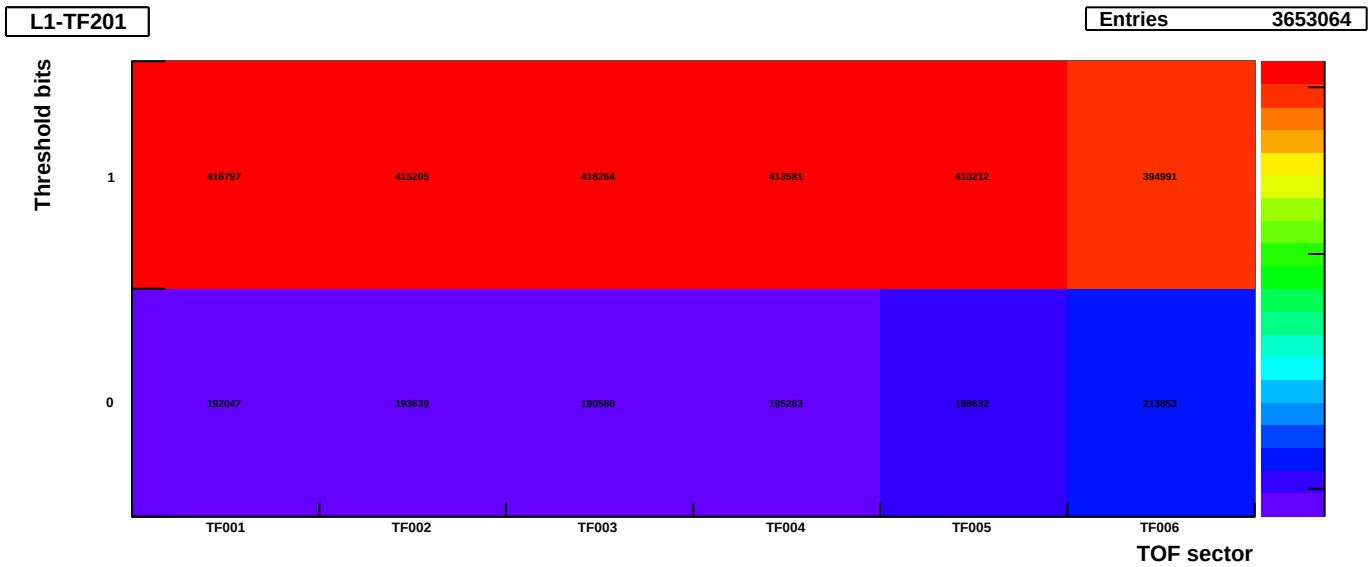

MIX-TF004
Entries 2.557145e+07
TOF MULT
TOF tray

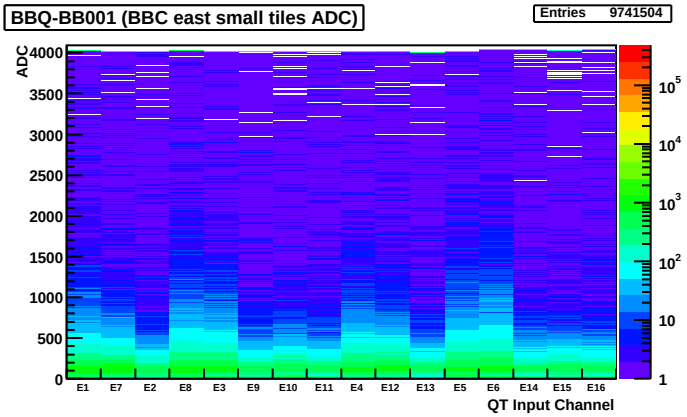

MIX-TF005
Entries 2.557145e+07
TOF MULT
TOF tray

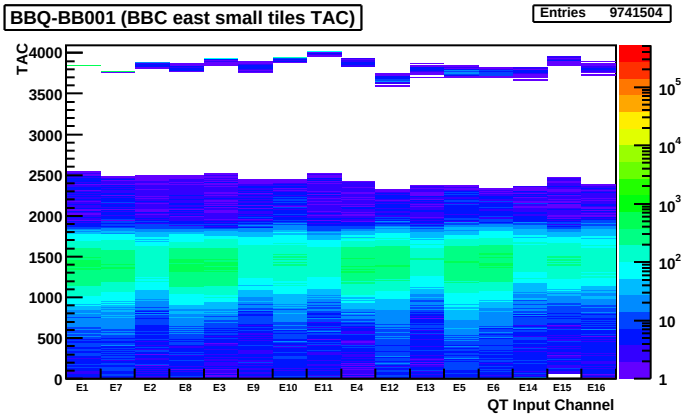

MIX-TF006
Entries 2.557145e+07
TOF MULT
TOF tray

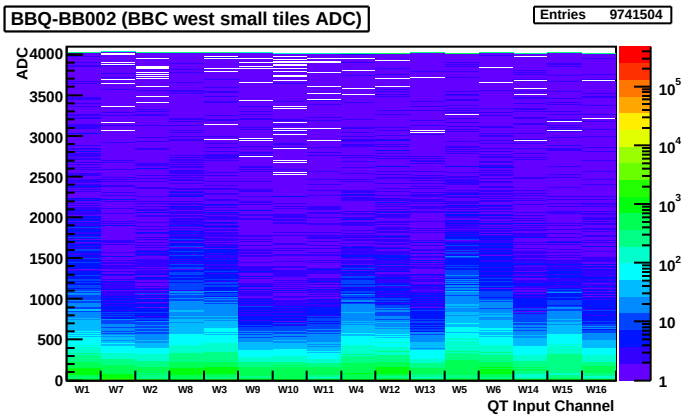

MIX-TF101
Entries 3653064
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

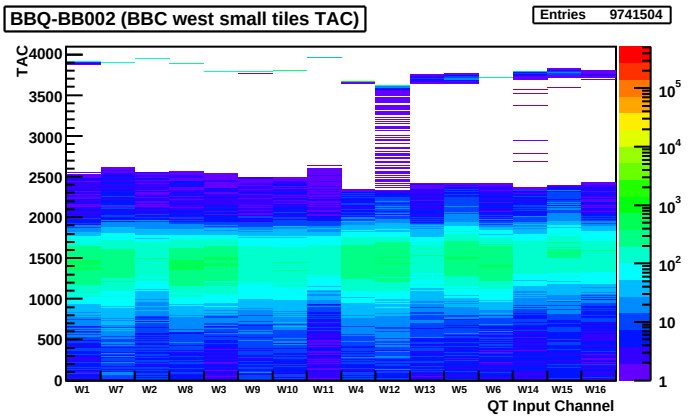

L1-TF201
Entries 608844
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

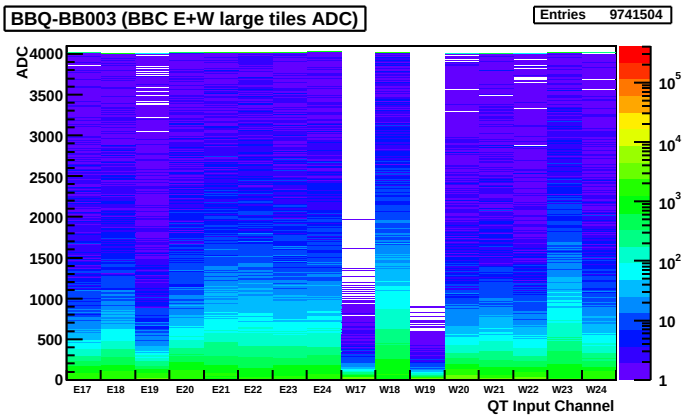

L1-TF201
Entries 3653064
Threshold bits
1
0
416797
415205
418264
413581
410212
394991
192047
193639
190580
195263
198632
213853
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

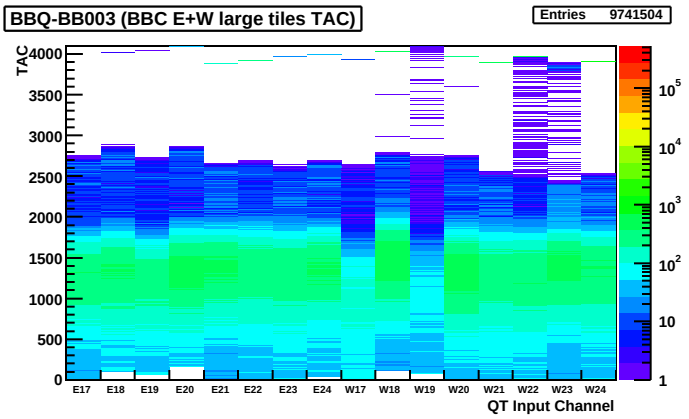

BBQ-BB001 (BBC east small tiles ADC)
Entries 9741504
ADC
QT Input Channel

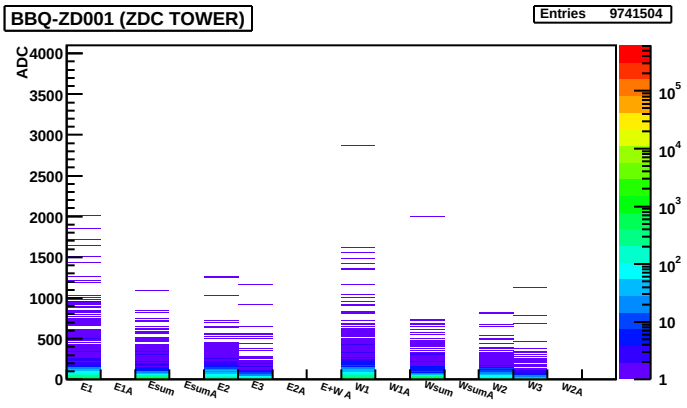

BBQ-BB001 (BBC east small tiles TAC)
Entries 9741504
TAC
QT Input Channel

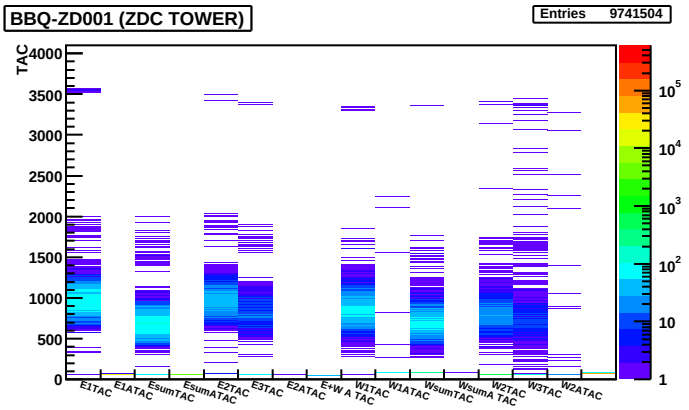

BBQ-BB002 (BBC west small tiles ADC)
Entries 9741504
ADC
QT Input Channel

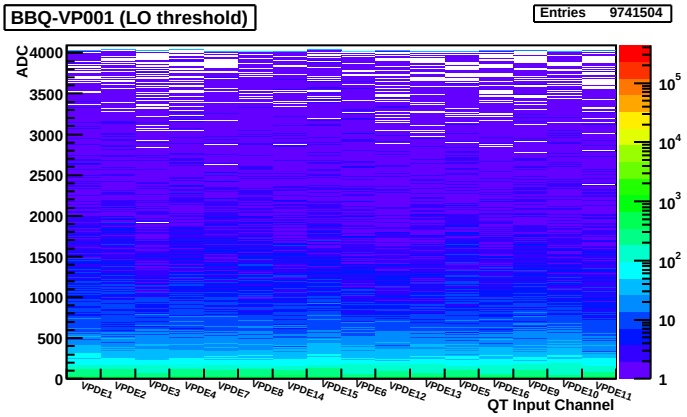

BBQ-BB002 (BBC west small tiles TAC)
Entries 9741504
TAC
QT Input Channel

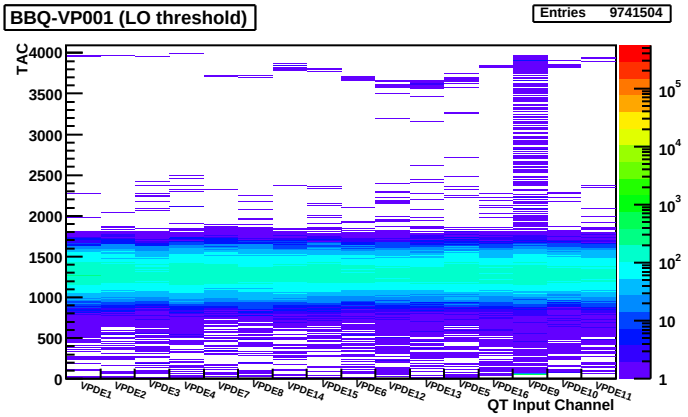

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9741504
ADC
QT Input Channel

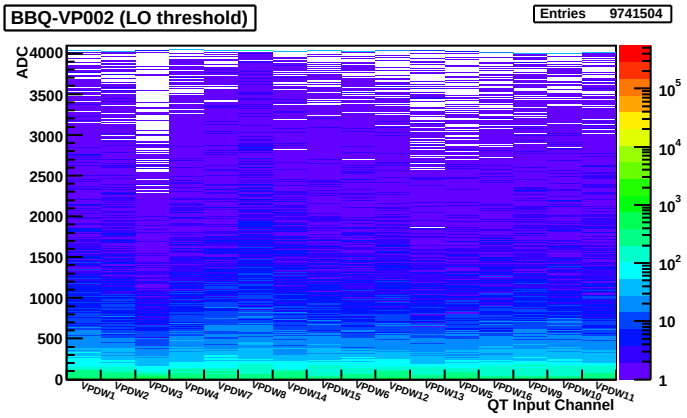

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9741504
TAC
QT Input Channel

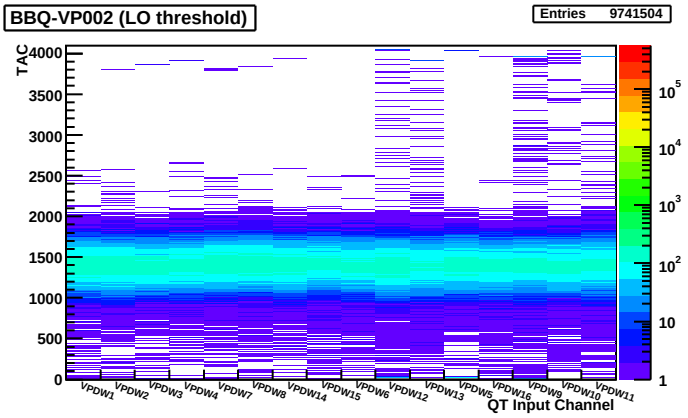

BBQ-ZD001 (ZDC TOWER)
Entries 9741504
ADC

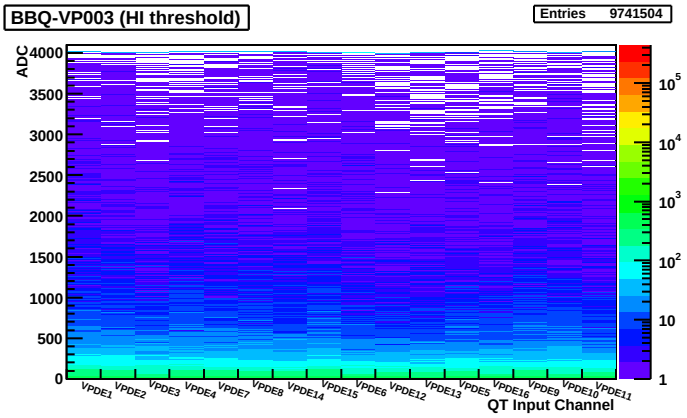

BBQ-ZD001 (ZDC TOWER)
Entries 9741504
TAC

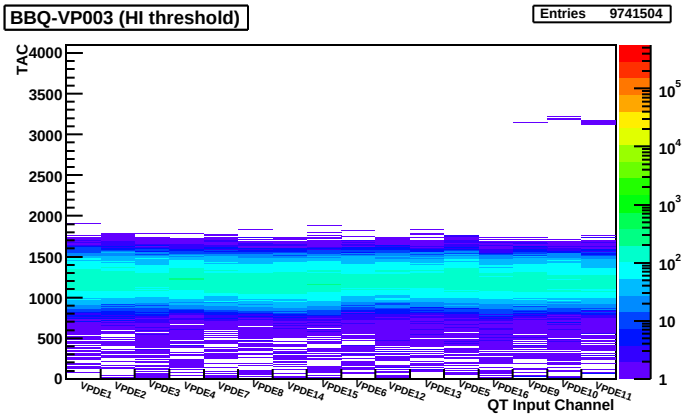

BBQ-VP001 (LO threshold)
Entries 9741504
ADC
QT Input Channel

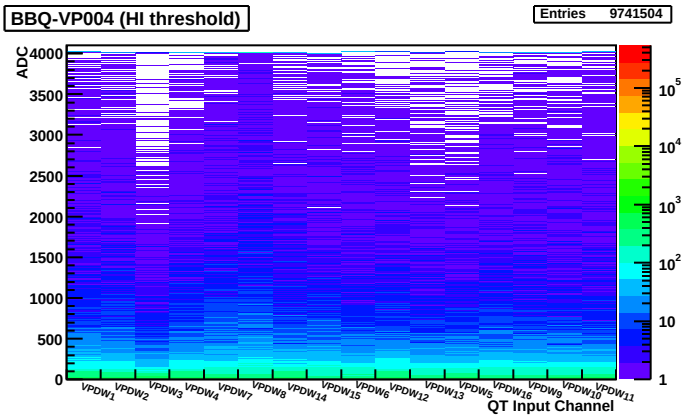

BBQ-VP001 (LO threshold)
Entries 9741504
TAC
QT Input Channel

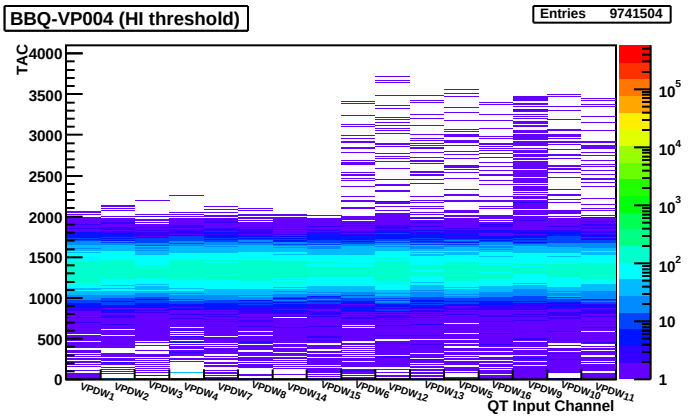

BBQ-VP002 (LO threshold)
Entries 9741504
ADC
QT Input Channel

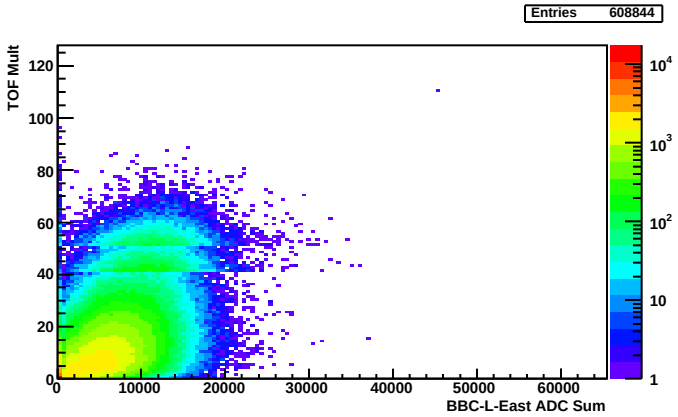

BBQ-VP002 (LO threshold)
Entries 9741504
TAC
QT Input Channel

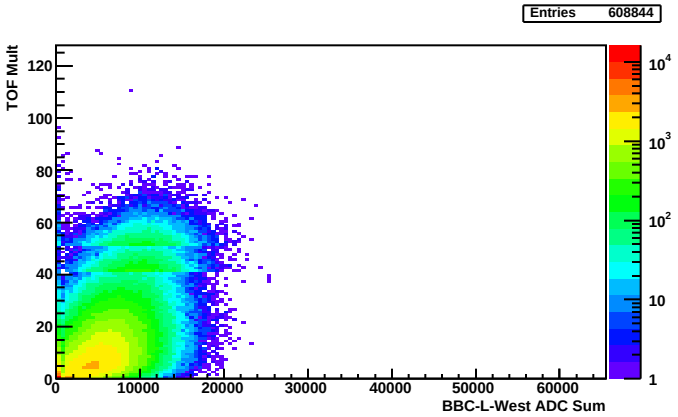

BBQ-VP003 (HI threshold)
Entries 9741504
ADC
QT Input Channel

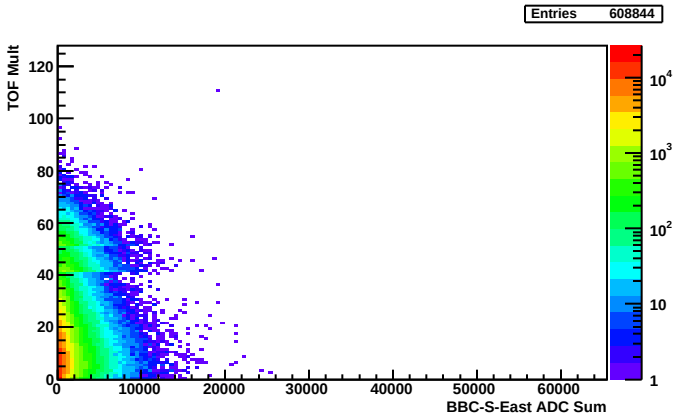

BBQ-VP003 (HI threshold)
Entries 9741504
TAC
QT Input Channel

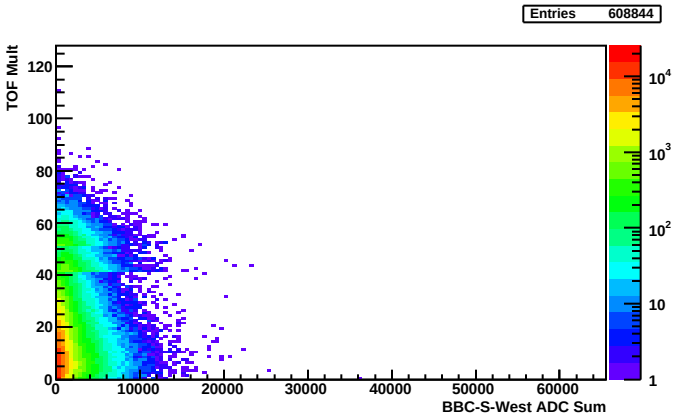

BBQ-VP004 (HI threshold)
Entries 9741504
ADC
QT Input Channel

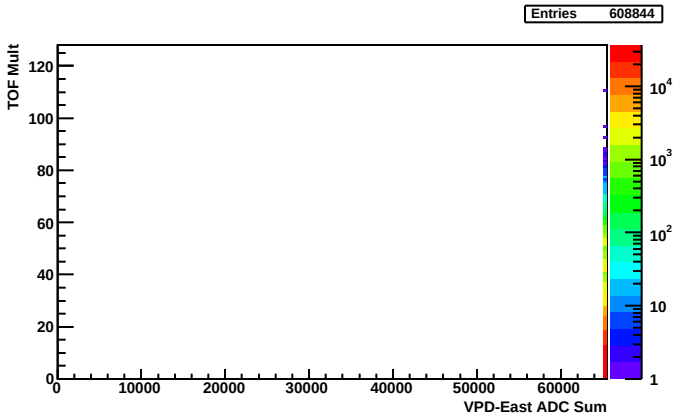

BBQ-VP004 (HI threshold)
Entries 9741504
TAC
QT Input Channel

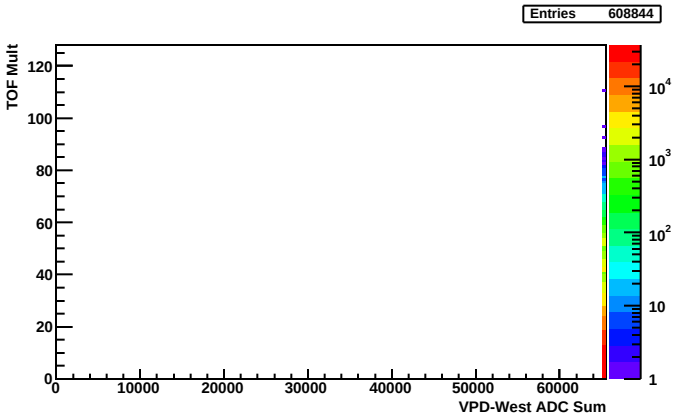

Entries 608844
TOF Mult
BBC-L-East ADC Sum

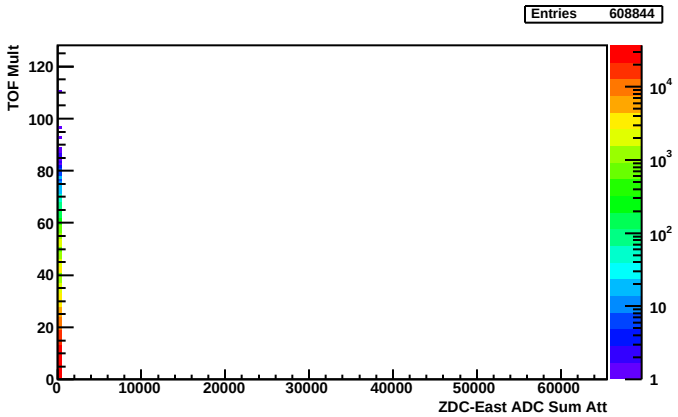

Entries 608844
TOF Mult
BBC-L-West ADC Sum

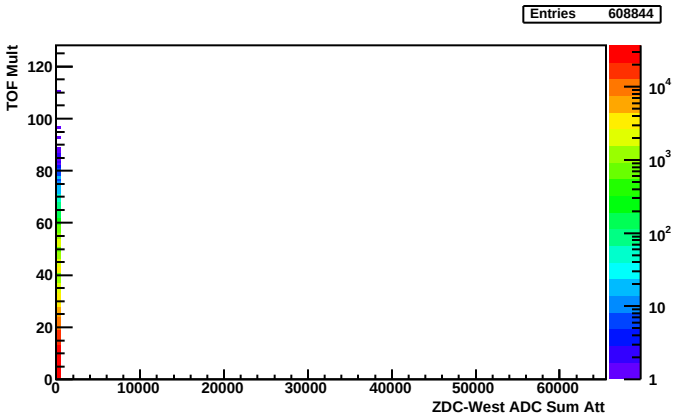

Entries 608844
TOF Mult
BBC-S-East ADC Sum

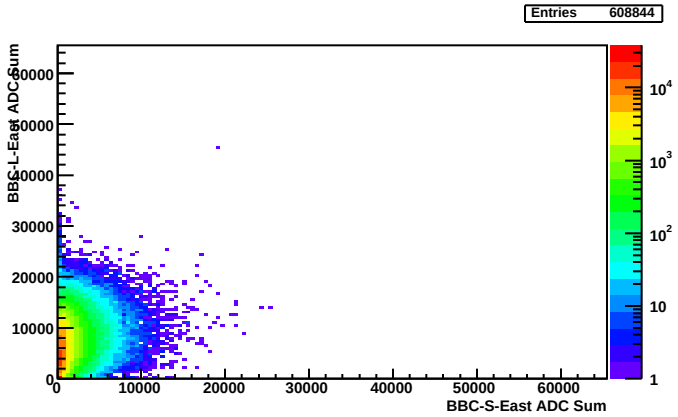

Entries 608844
TOF Mult
BBC-S-West ADC Sum

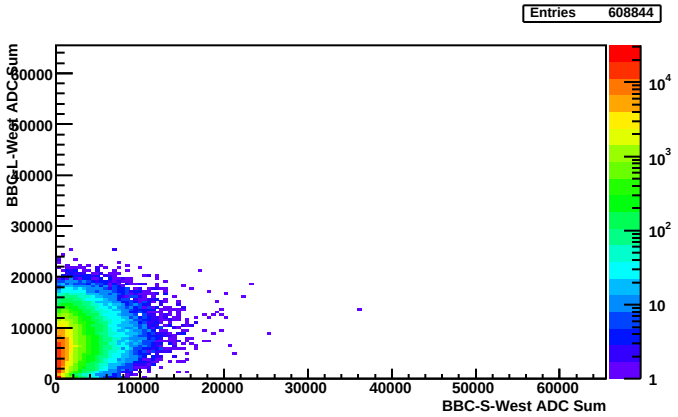

Entries 608844
TOF Mult
VPD-East ADC Sum

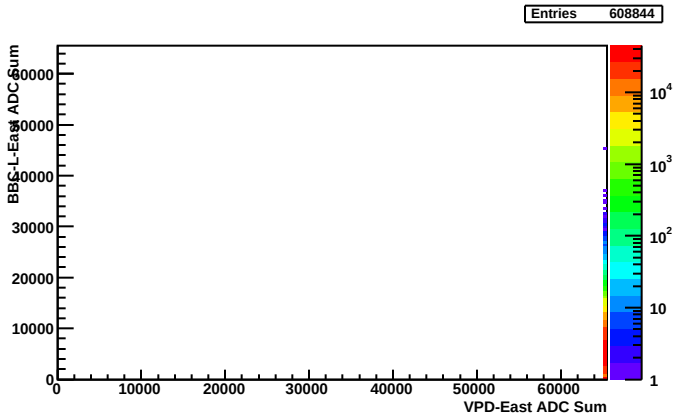

Entries 608844
TOF Mult
VPD-West ADC Sum

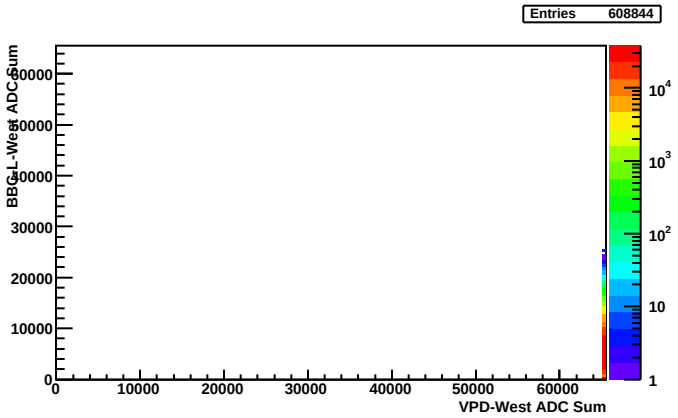

Entries 608844
TOF Mult
ZDC-East ADC Sum Att

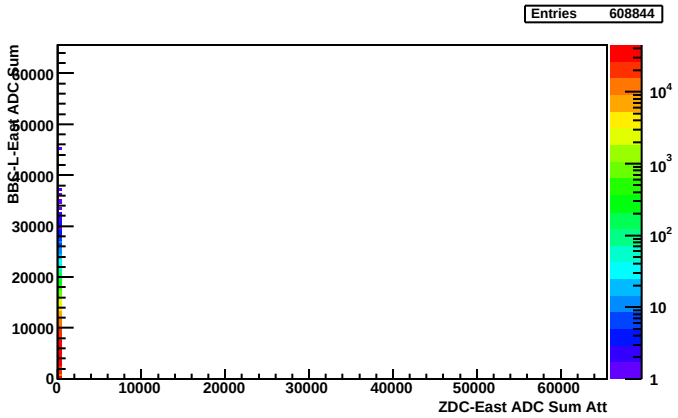

Entries 608844
TOF Mult
ZDC-West ADC Sum Att

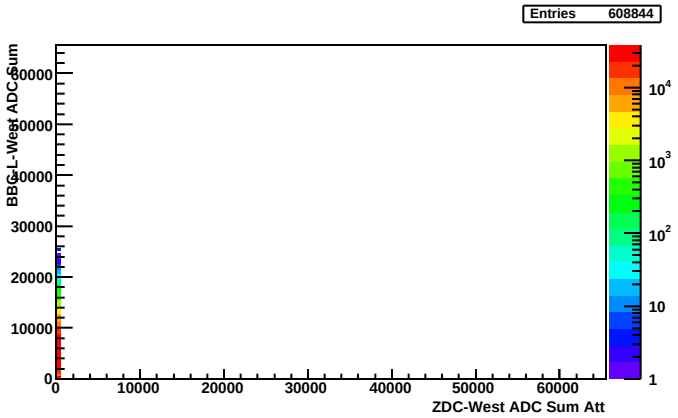

Entries 608844
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 608844
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 608844
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 608844
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 608844
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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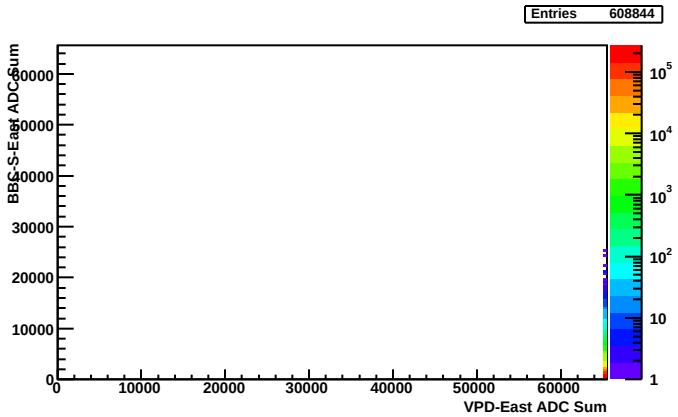
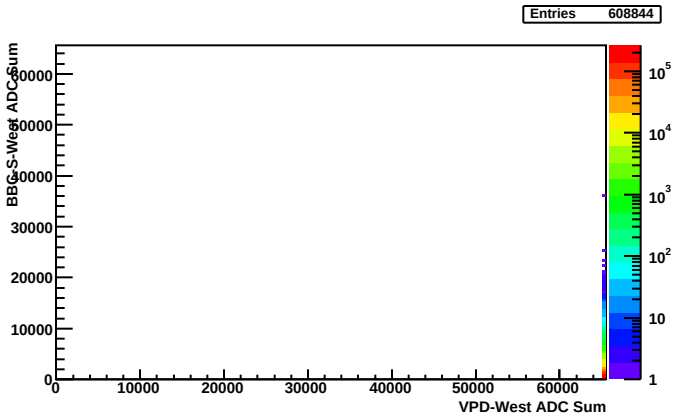
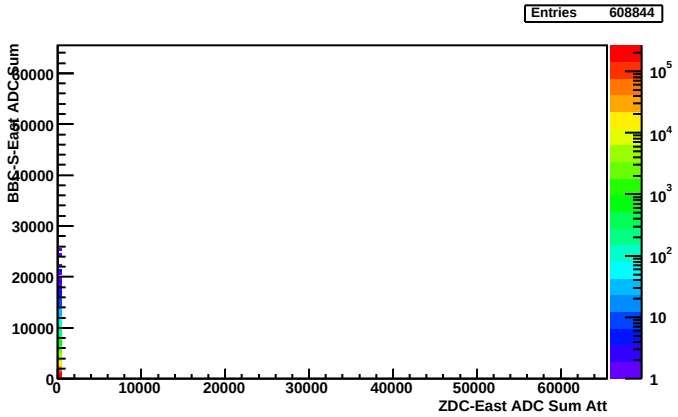
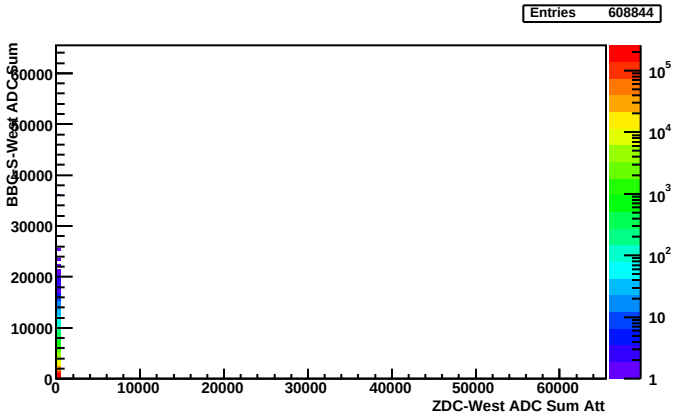
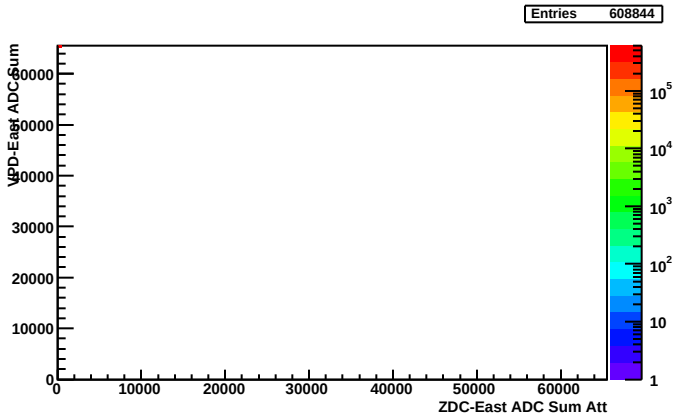
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

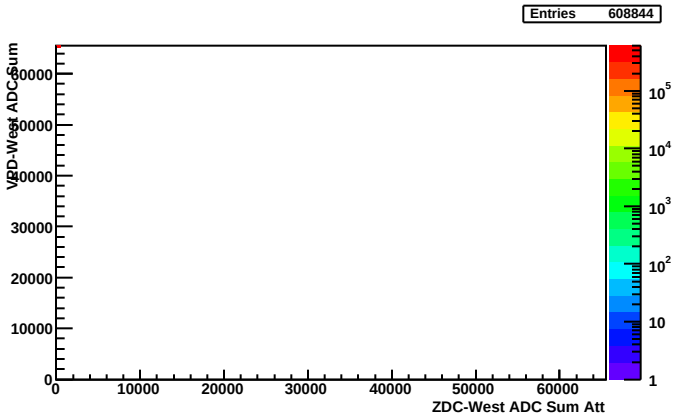

Entries 608844
BBC-S-East ADC Sum
VPD-East ADC Sum

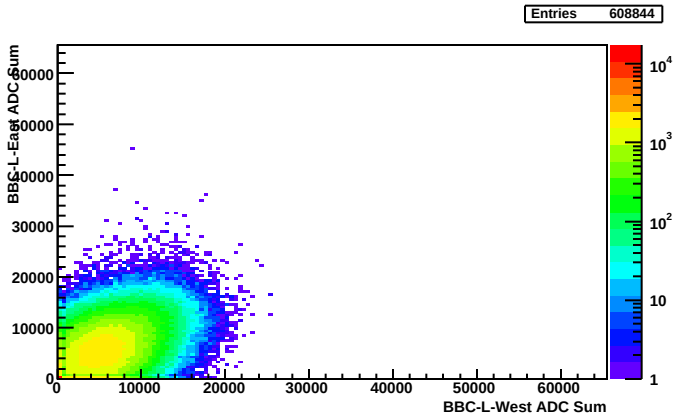

Entries 608844
BBC-S-West ADC Sum
VPD-West ADC Sum

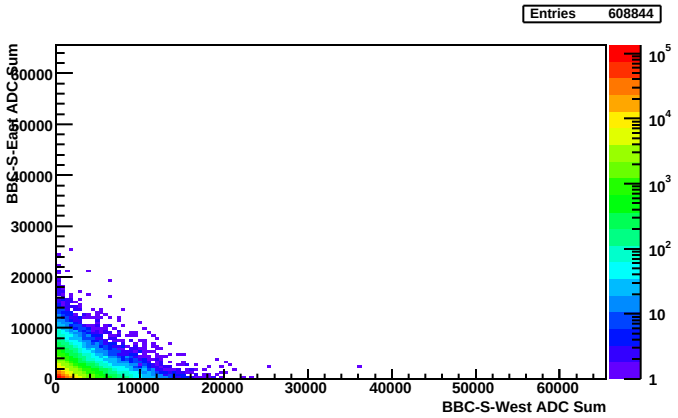

Entries 608844
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

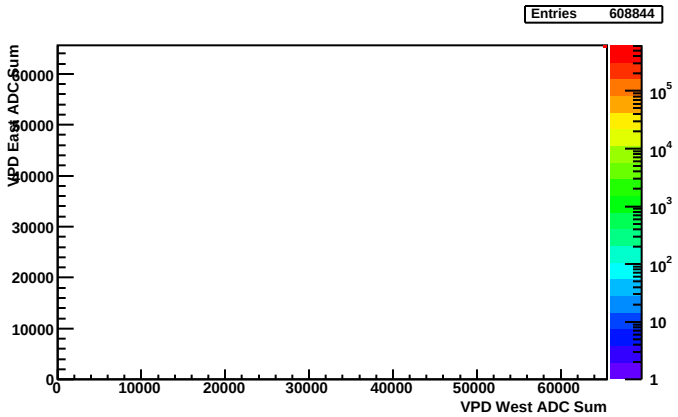

Entries 608844
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

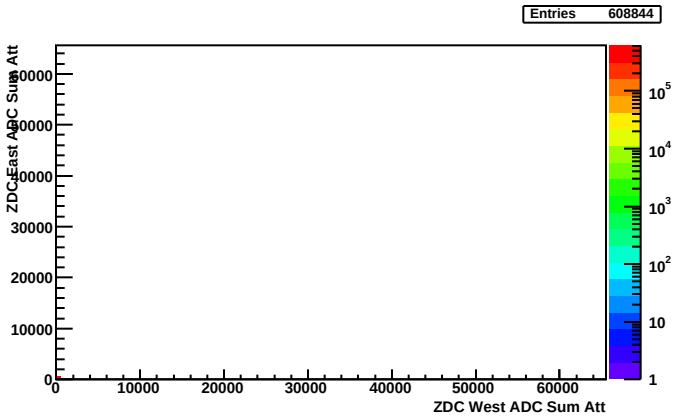

Entries 608844
VPD-East ADC Sum
ZDC-East ADC Sum Att

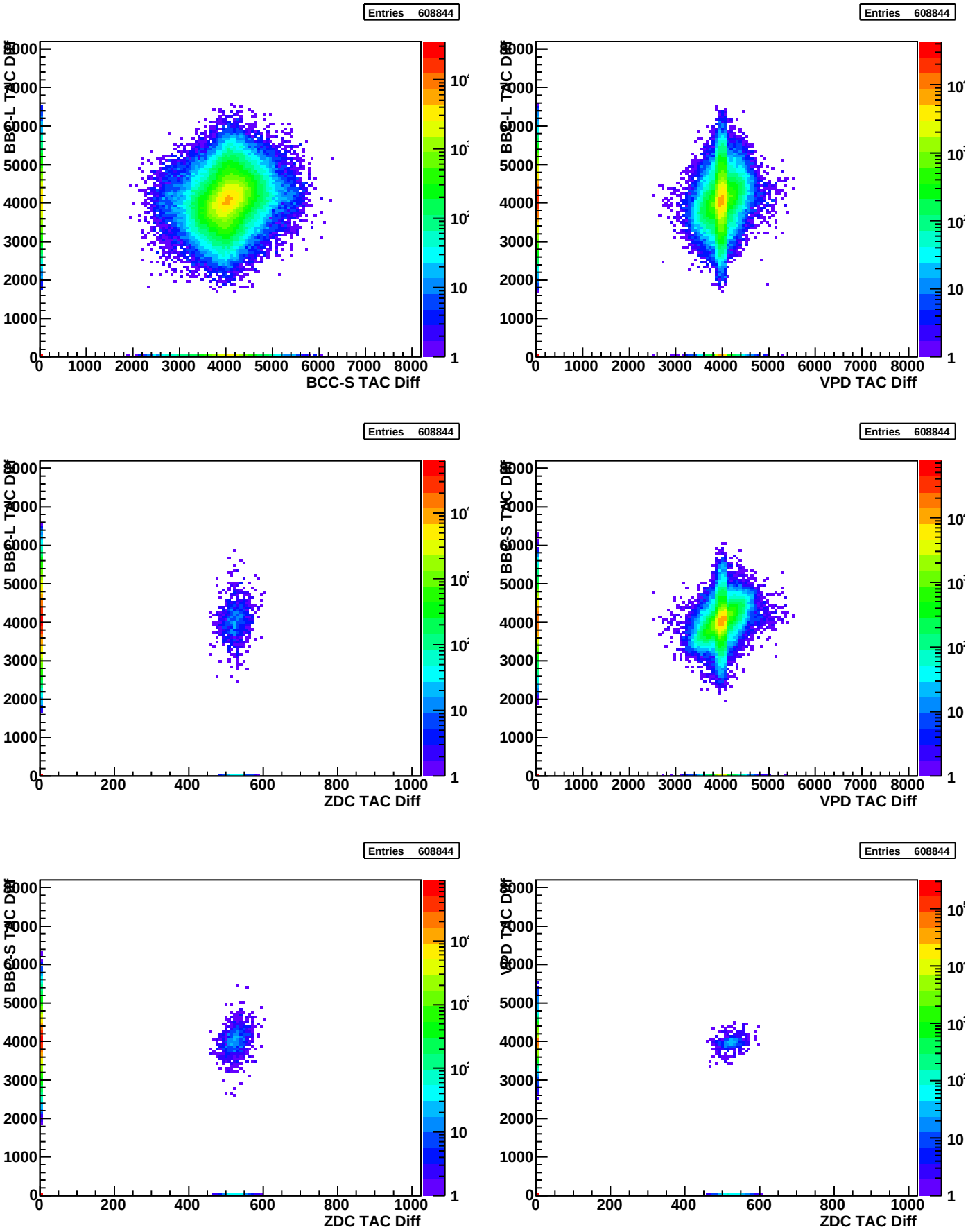

Entries 608844
VPD-West ADC Sum
ZDC-West ADC Sum Att

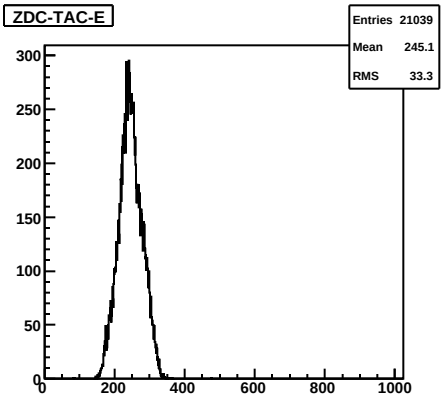

Entries 608844
BBC-L-East ADC Sum
BBC-L-West ADC Sum

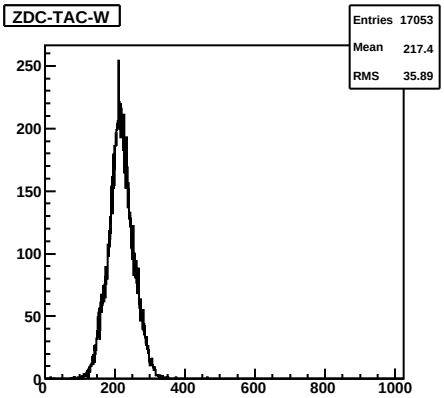

Entries 608844
BBC-S-East ADC Sum
BBC-S-West ADC Sum

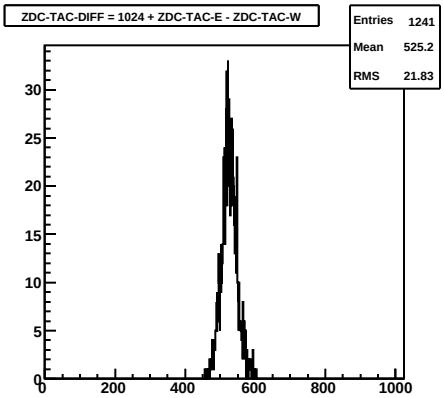

Entries 608844
VPD East ADC Sum
VPD West ADC Sum

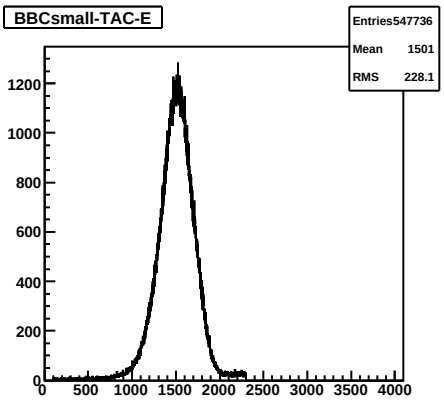

Entries 608844
ZDC East ADC Sum Att
ZDC West ADC Sum Att

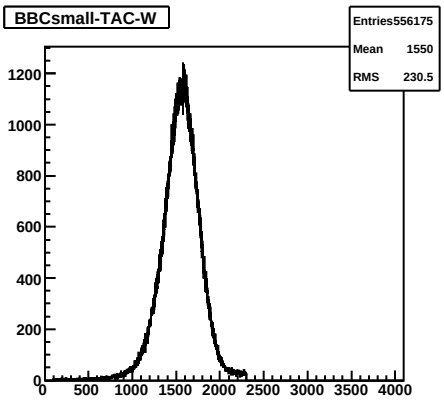

Entries 608844
BBC-L TAC Diff
BCC-S TAC Diff
Entries 608844
BBC-L TAC Diff
VPD TAC Diff
Entries 608844
BBC-L TAC Diff
ZDC TAC Diff
Entries 608844
BBC-S TAC Diff
VPD TAC Diff
Entries 608844
BBC-S TAC Diff
ZDC TAC Diff
Entries 608844
VPD TAC Diff
ZDC TAC Diff

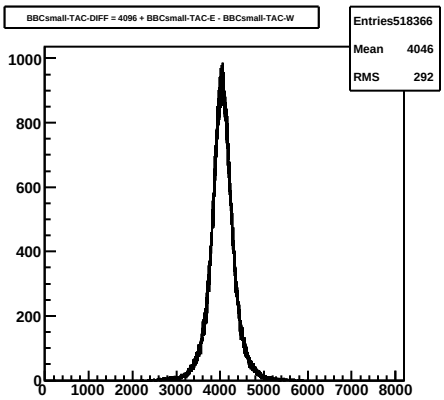

ZDC-TAC-E
Entries 21039
Mean 245.1
RMS 33.3

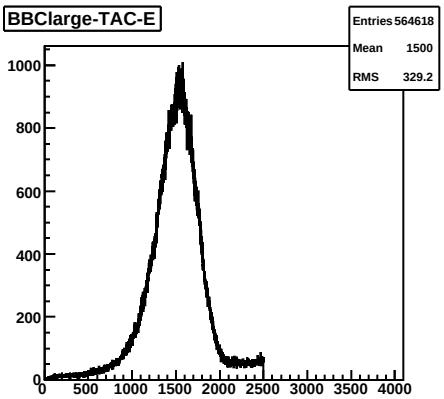

ZDC-TAC-W
Entries 17053
Mean 217.4
RMS 35.89

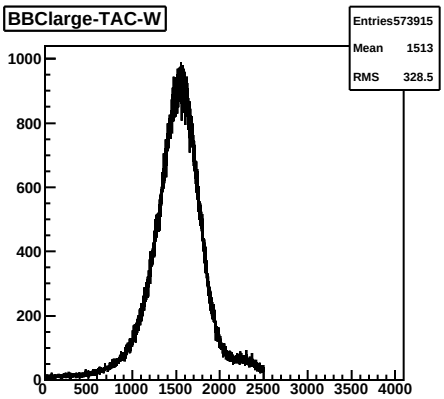

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1241
Mean 525.2
RMS 21.83

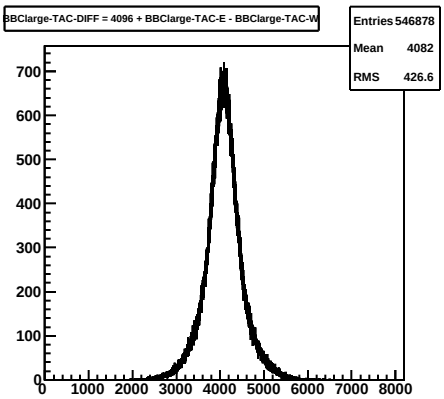

BBCsmall-TAC-E
Entries547736
Mean 1501
RMS 228.1

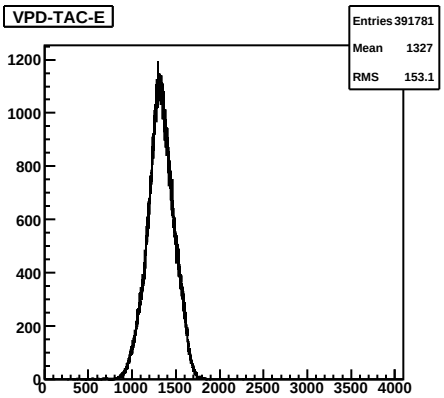

BBCsmall-TAC-W
Entries556175
Mean 1550
RMS 230.5

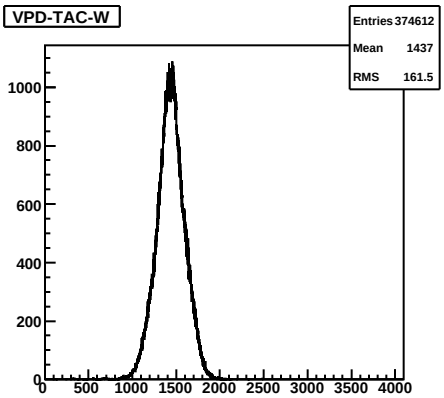

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries518366
Mean 4046
RMS 292

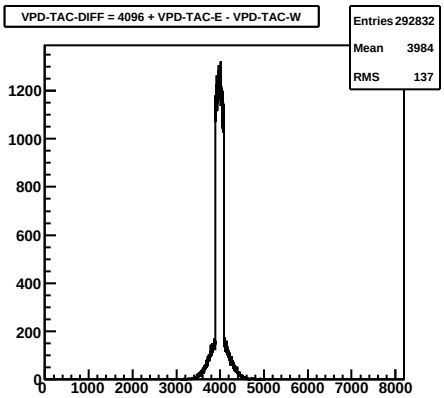

BBClarge-TAC-E
Entries564618
Mean 1500
RMS 329.2

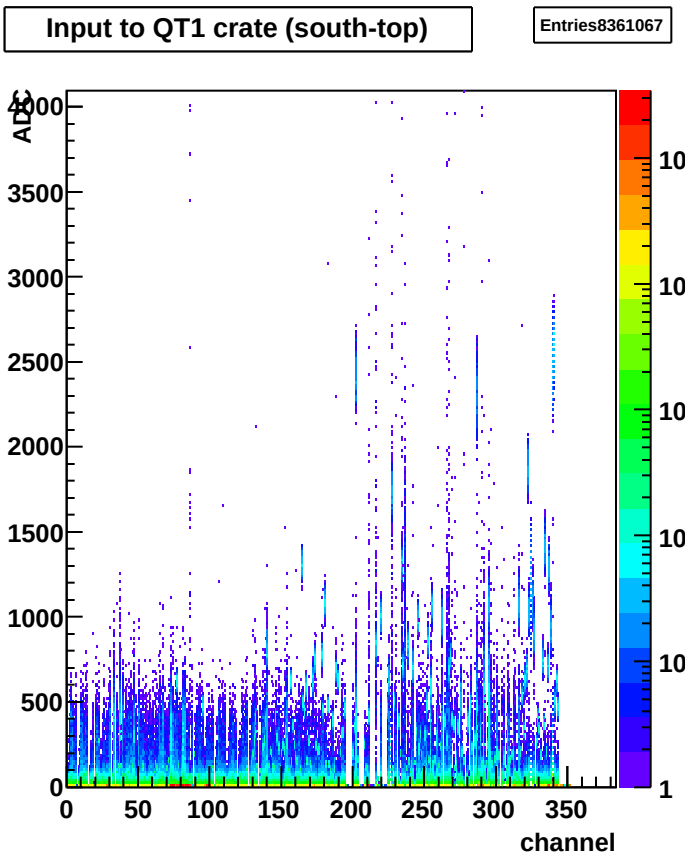

BBClarge-TAC-W
Entries573915
Mean 1513
RMS 328.5

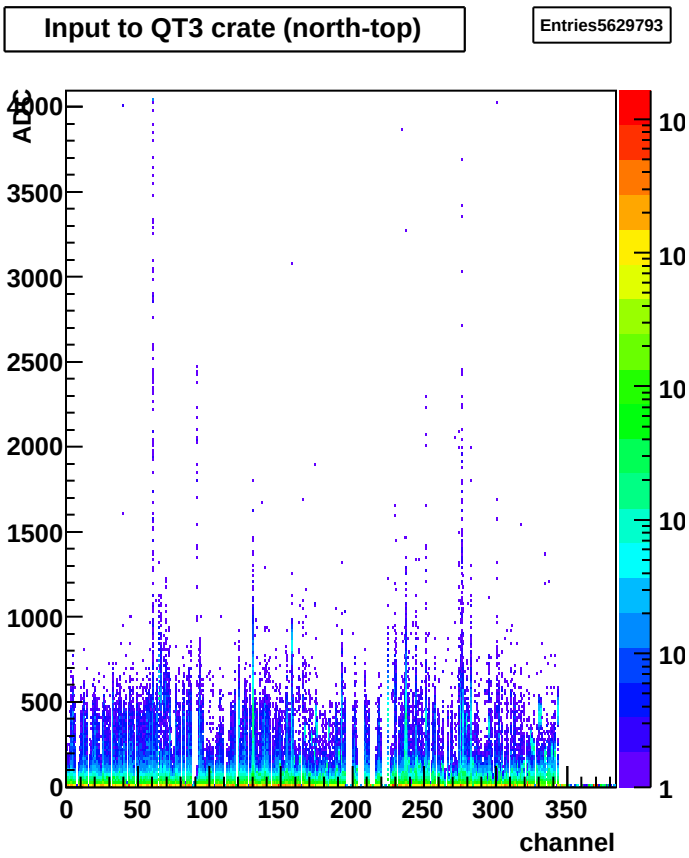

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries546878
Mean 4082
RMS 426.6

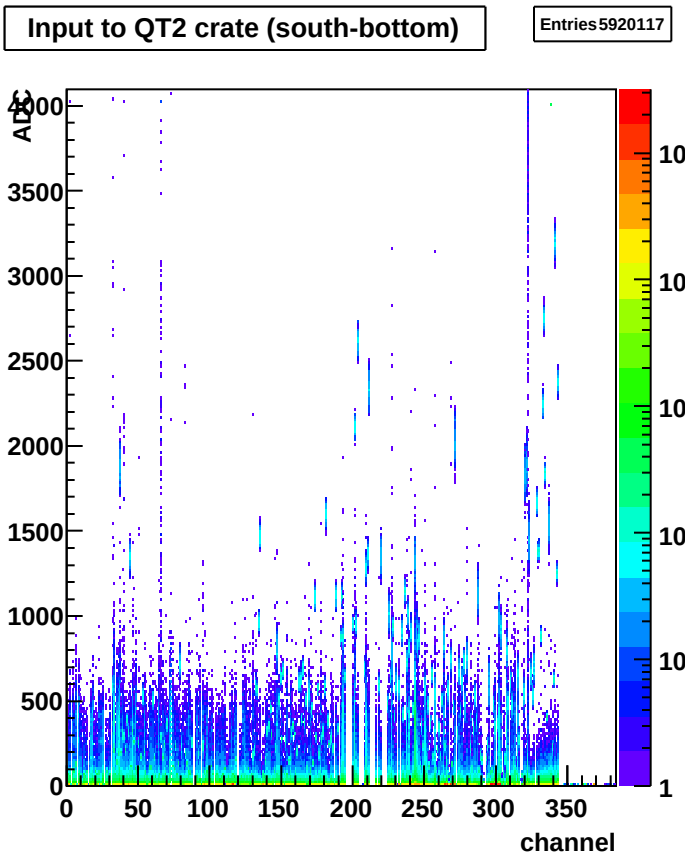

VPD-TAC-E
Entries391781
Mean 1327
RMS 153.1

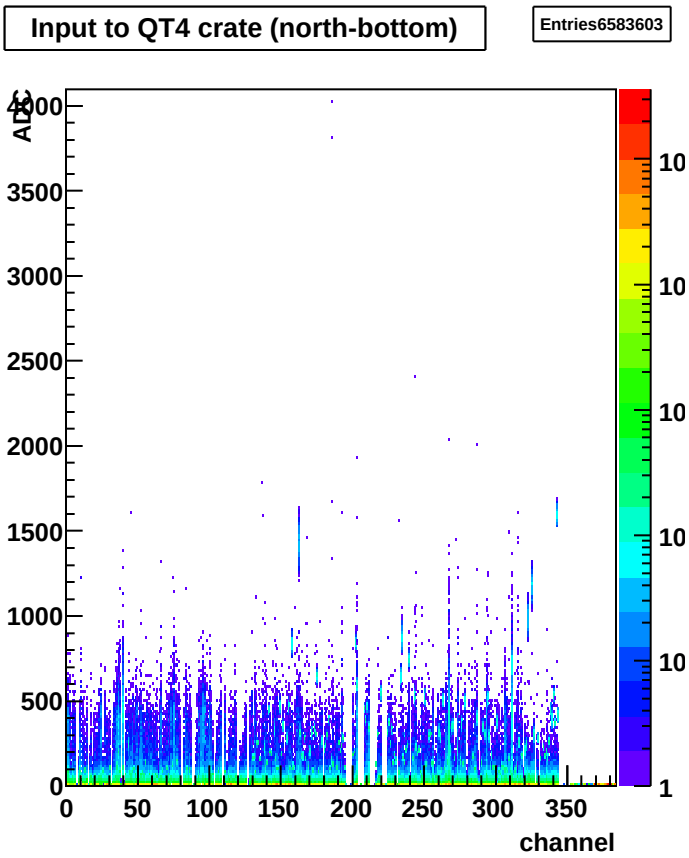

VPD-TAC-W
Entries374612
Mean 1437
RMS 161.5

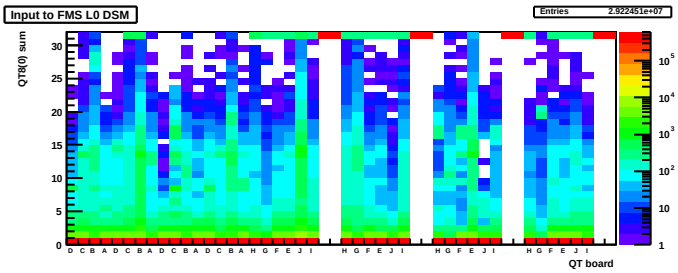

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries292832
Mean 3984
RMS 137

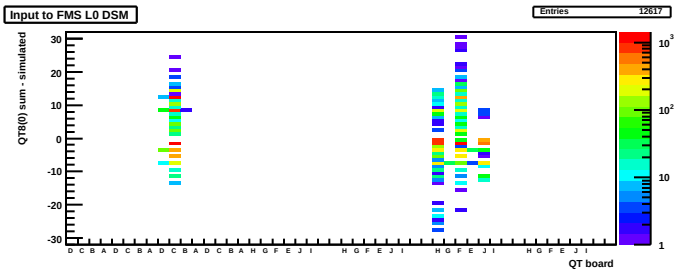

Input to QT1 crate (south-top)
Entries8361067
ADC
channel

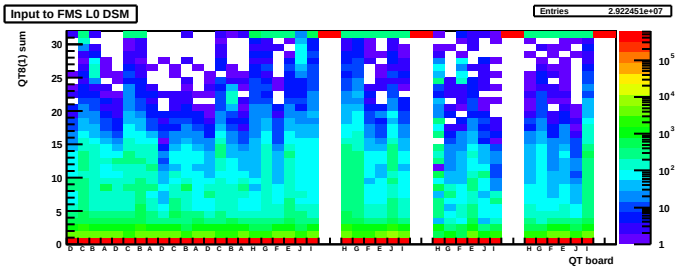

Input to QT3 crate (north-top)
Entries5629793
ADC
channel

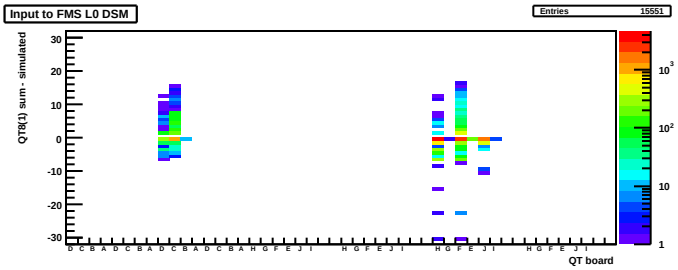

Input to QT2 crate (south-bottom)
Entries5920117
ADC
channel

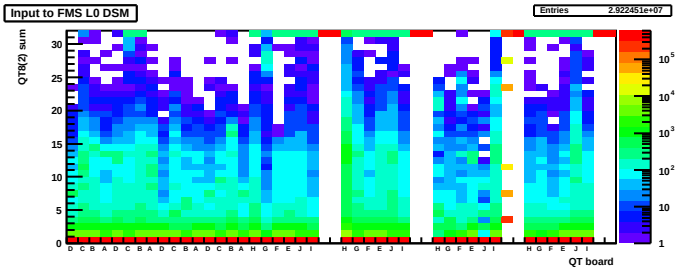

Input to QT4 crate (north-bottom)
Entries6583603
ADC
channel

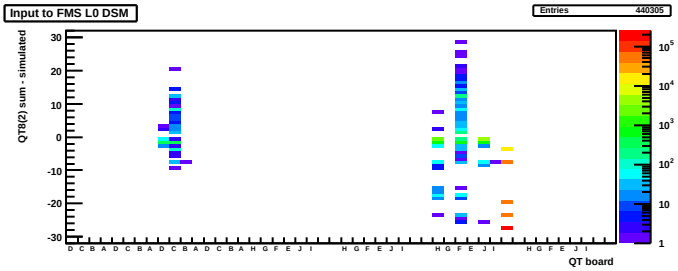

Input to FMS L0 DSM
Entries 2.922451e+07
QT8(0) sum
QT board

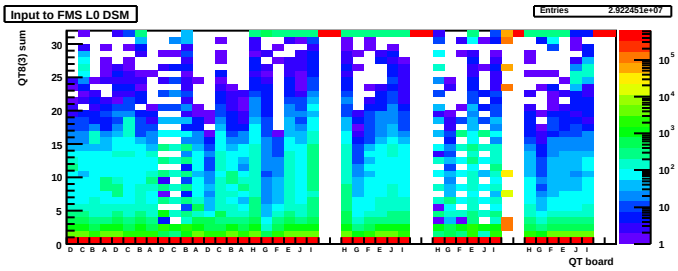

Input to FMS L0 DSM
Entries 12617
QT8(0) sum - simulated
QT board

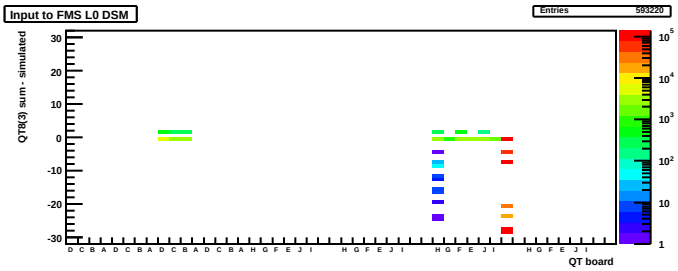

Input to FMS L0 DSM
Entries 2.922451e+07
QT8(1) sum
QT board

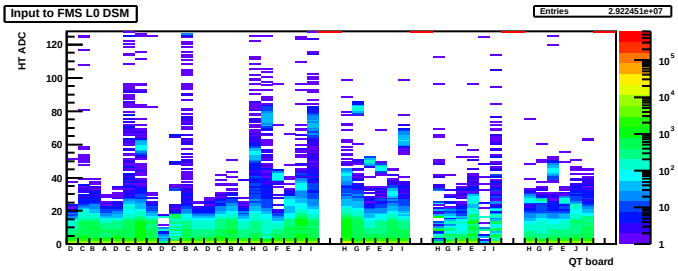

Input to FMS L0 DSM
Entries 15551
QT8(1) sum - simulated
QT board

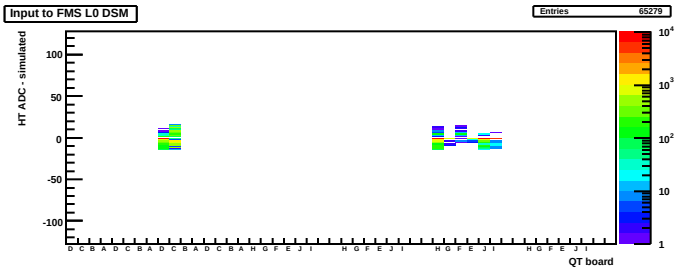

Input to FMS L0 DSM
Entries 2.922451e+07
QT8(2) sum
QT board

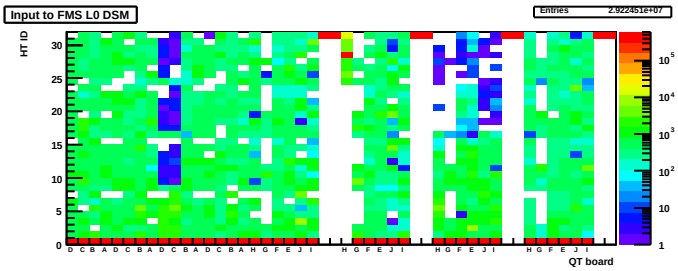

Input to FMS L0 DSM
Entries 440305
QT8(2) sum - simulated
QT board

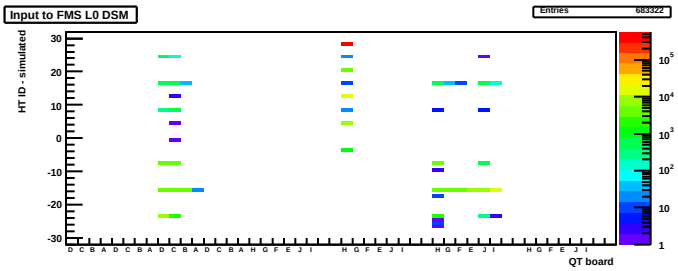

Input to FMS L0 DSM
Entries 2.922451e+07
QT8(3) sum
QT board

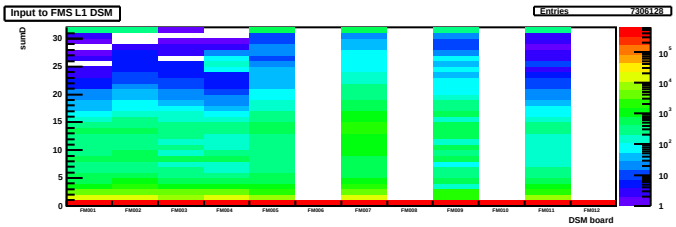

Input to FMS L0 DSM
Entries 593220
QT8(3) sum - simulated
QT board

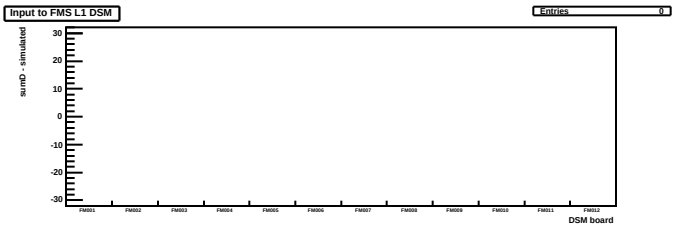

Input to FMS L0 DSM
Entries 2.922451e+07
HT ADC
QT board

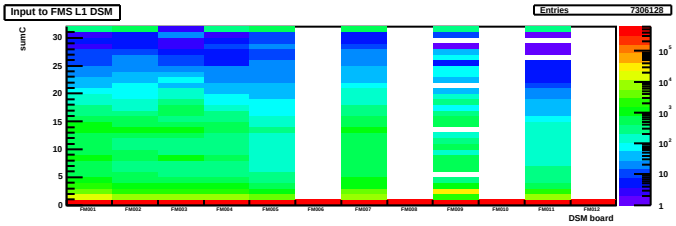

Input to FMS L0 DSM
Entries 65279
HT ADC - simulated
QT board

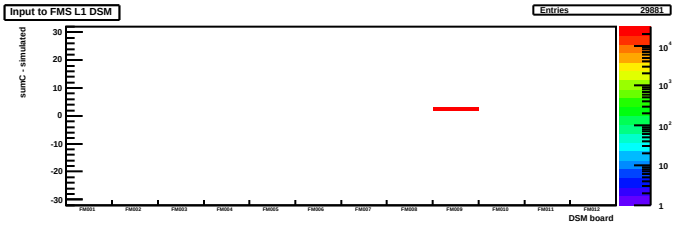

Input to FMS L0 DSM
Entries 2.922451e+07
HT ID
QT board

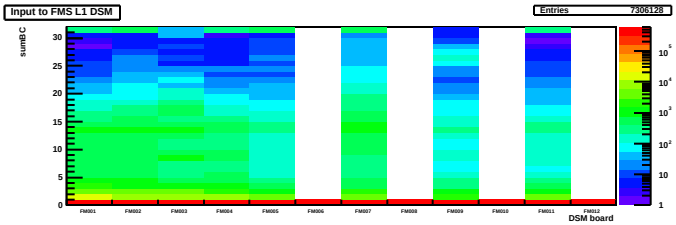

Input to FMS L0 DSM
Entries 683322
HT ID - simulated
QT board

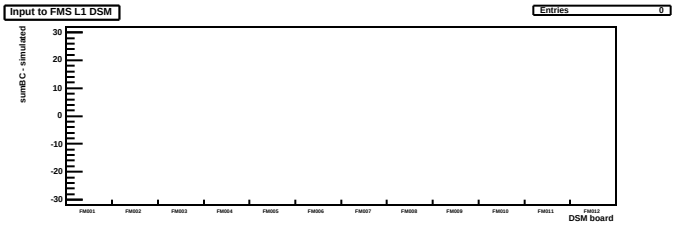

Input to FMS L1 DSM
Entries 7306128
sumD
DSM board

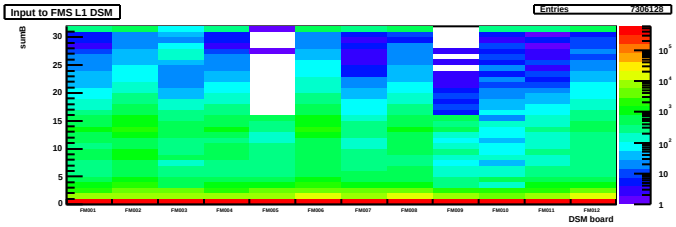

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

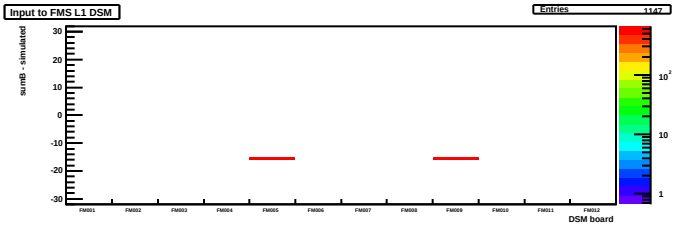

Input to FMS L1 DSM
Entries 7306128
sumC
DSM board

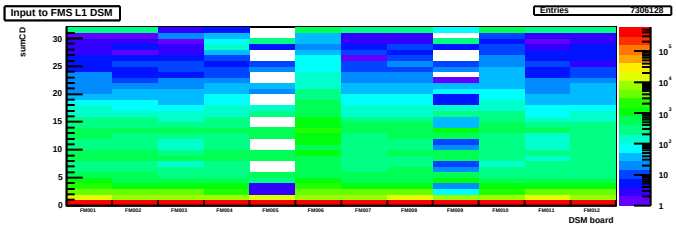

Input to FMS L1 DSM
Entries 29881
sumC - simulated
DSM board

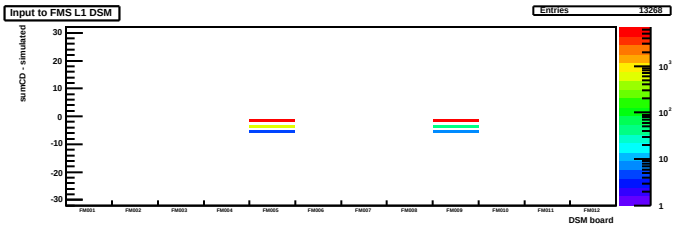

Input to FMS L1 DSM
Entries 7306128
sumBC
DSM board

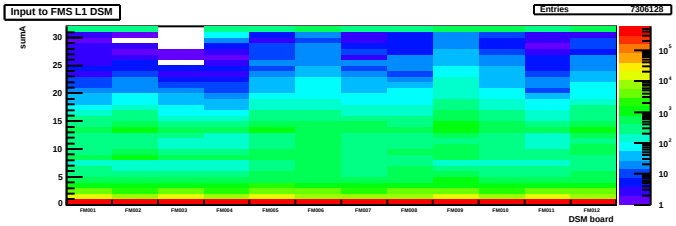

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

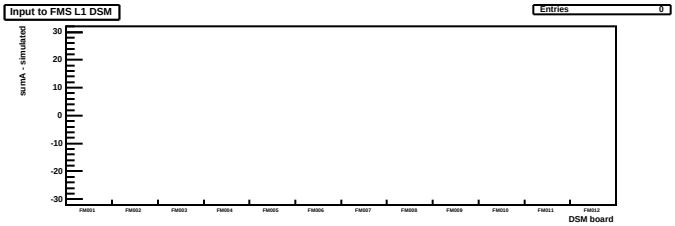

Input to FMS L1 DSM
Entries 7306128
sumB
DSM board

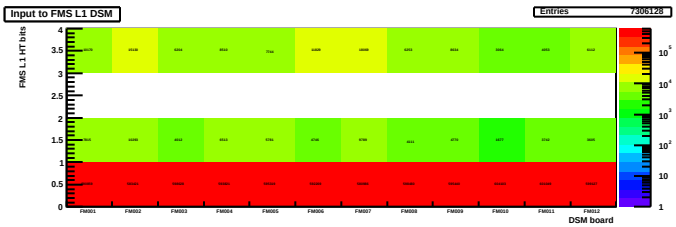

Input to FMS L1 DSM
Entries 1147
sumB - simulated
DSM board

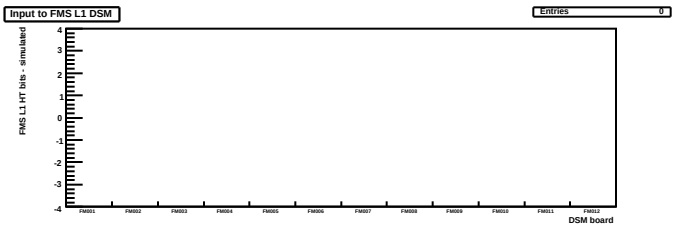

Input to FMS L1 DSM
Entries 7306128
sumCD
DSM board

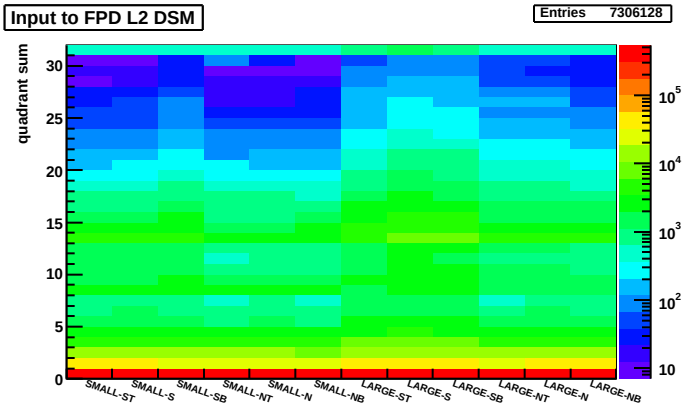

Input to FMS L1 DSM
Entries 13268
sumCD - simulated
DSM board

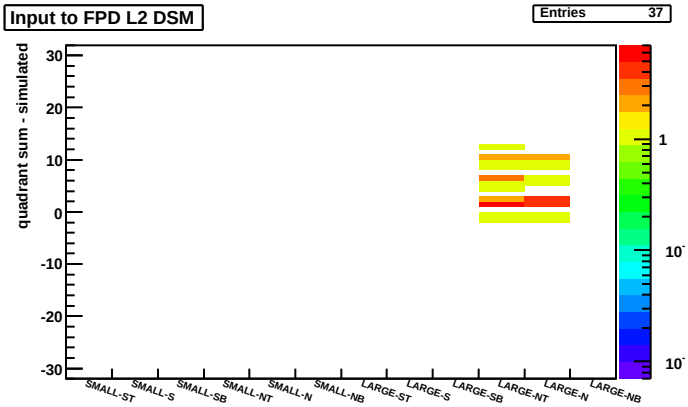

Input to FMS L1 DSM
Entries 7306128
sumA
DSM board

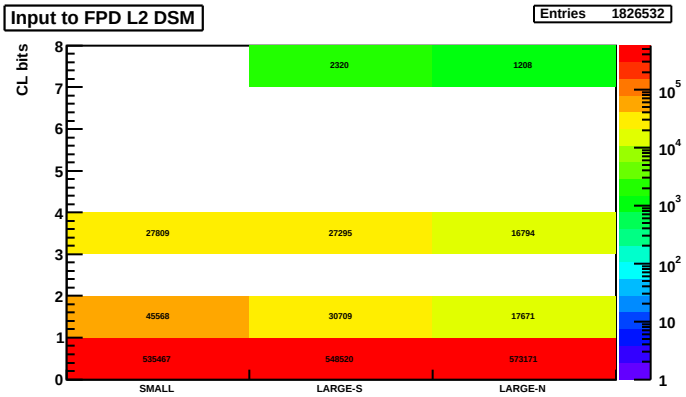

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

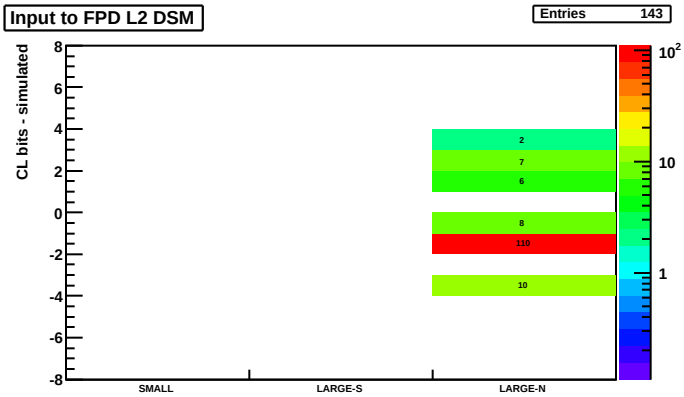

Input to FMS L1 DSM
Entries 7306128
FMS L1 HT bits
DSM board

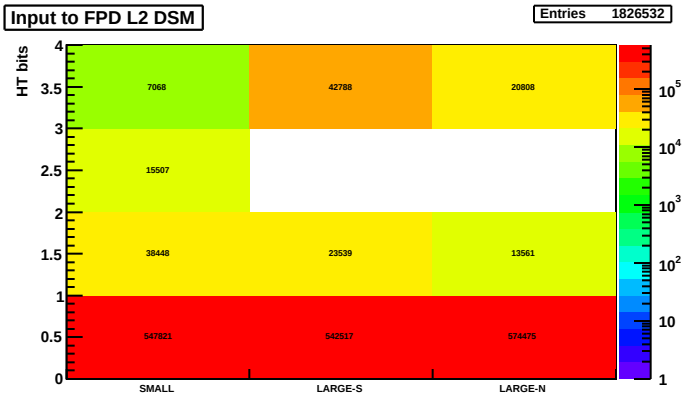

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

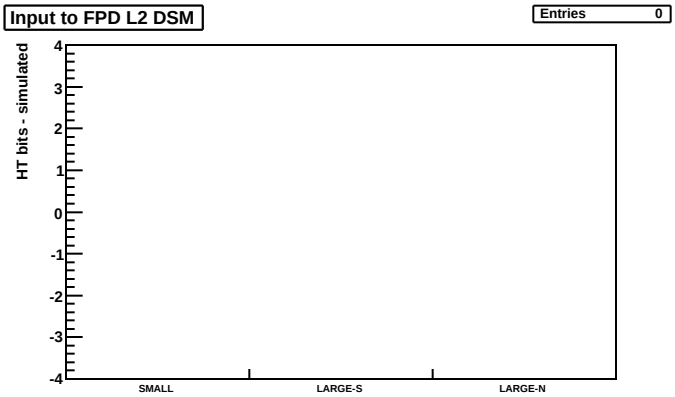

Input to FPD L2 DSM
Entries 7306128
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

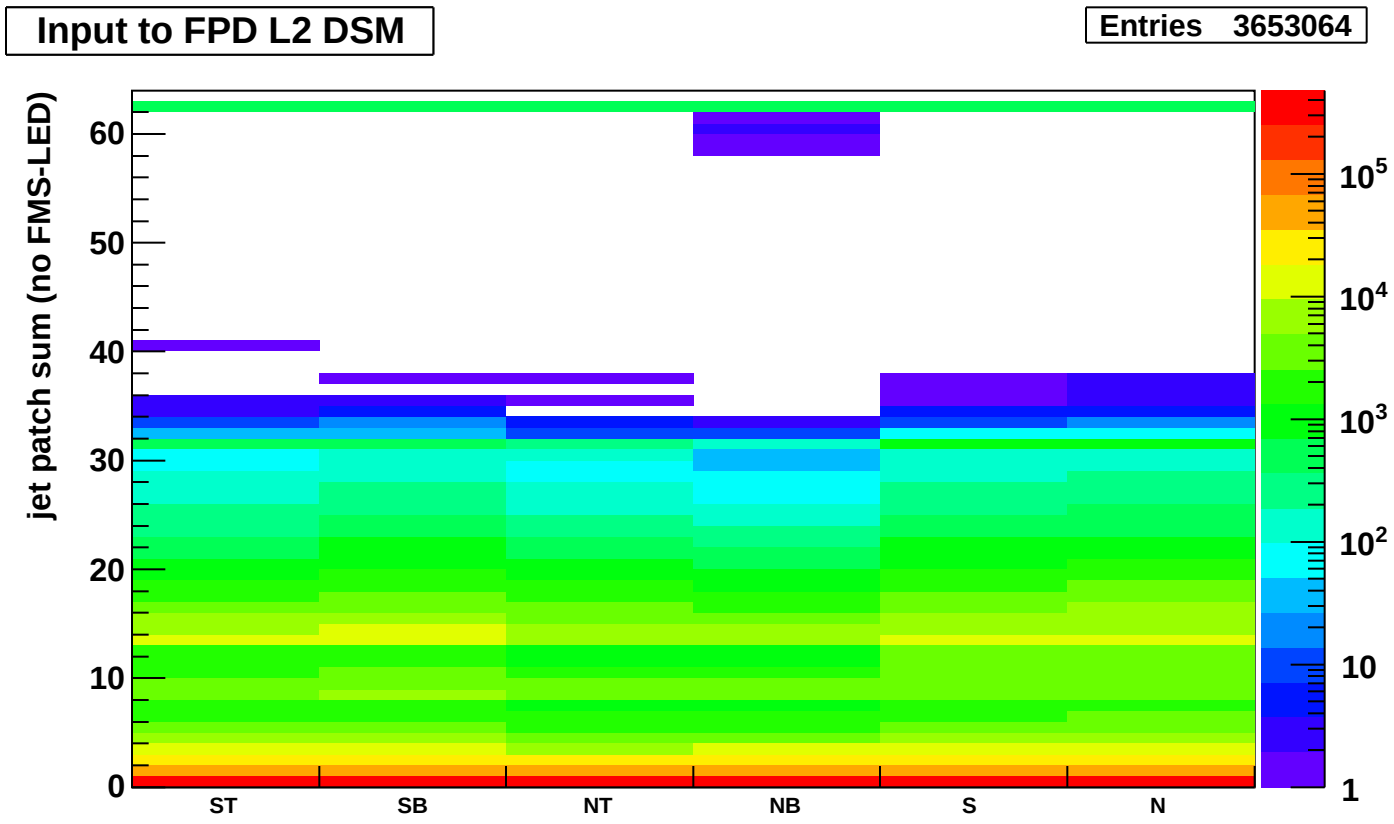

Input to FPD L2 DSM
Entries 37
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

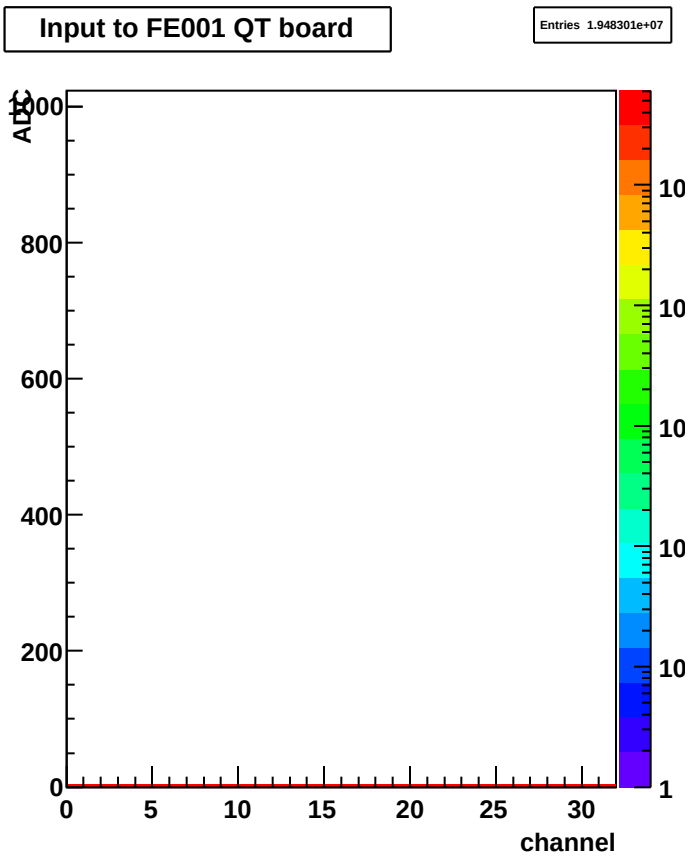

Input to FPD L2 DSM
Entries 1826532
CL bits
2320
1208
27809
27295
16794
45568
30709
17671
535467
548520
573171
SMALL
LARGE-S
LARGE-N

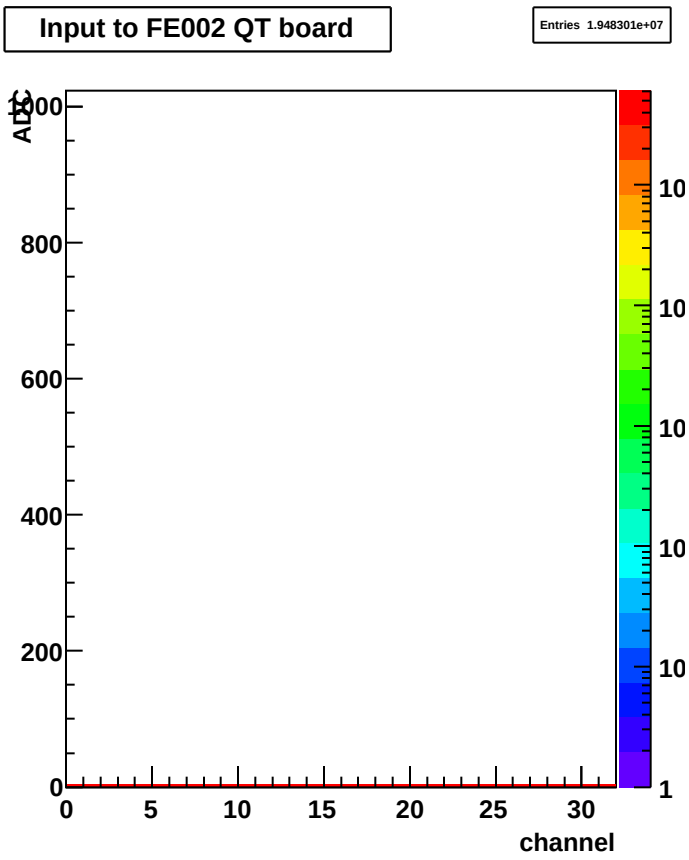

Input to FPD L2 DSM
Entries 143
CL bits - simulated
2
7
6
8
110
10
SMALL
LARGE-S
LARGE-N

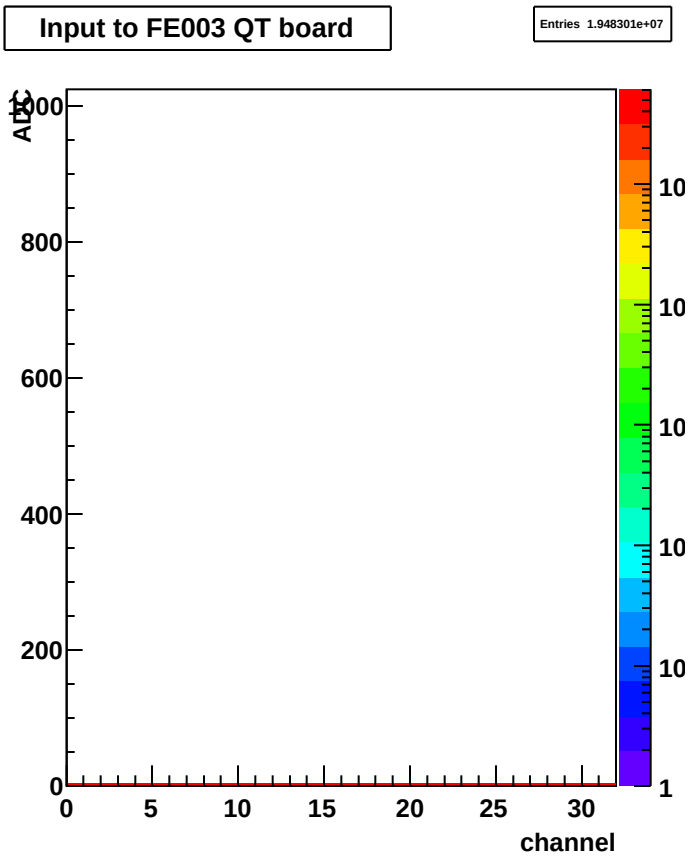

Input to FPD L2 DSM
Entries 1826532
HT bits
7068
42788
20808
15507
38448
23539
13561
547821
542517
574475
SMALL
LARGE-S
LARGE-N

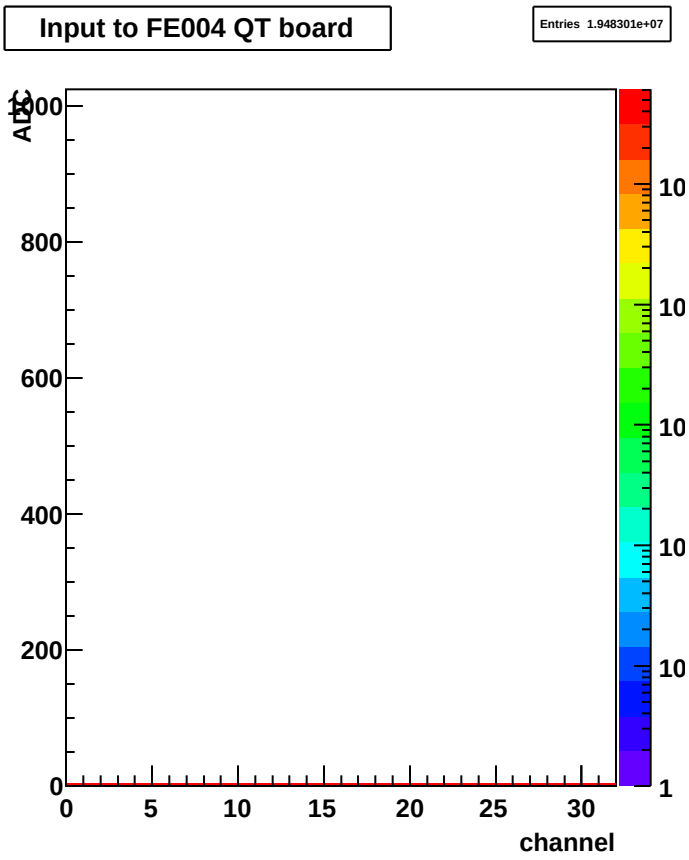

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

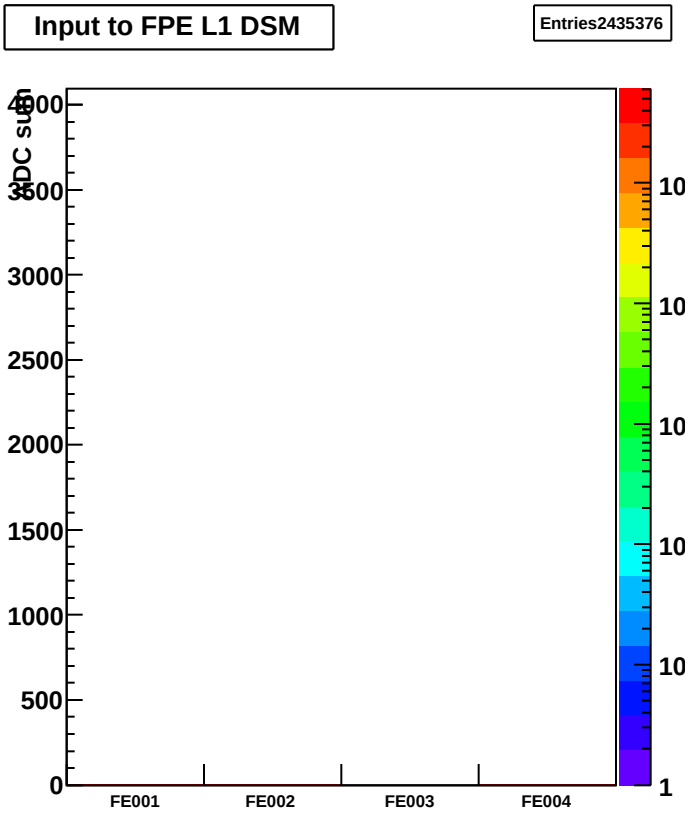

Input to FPD L2 DSM
Entries 3653064
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

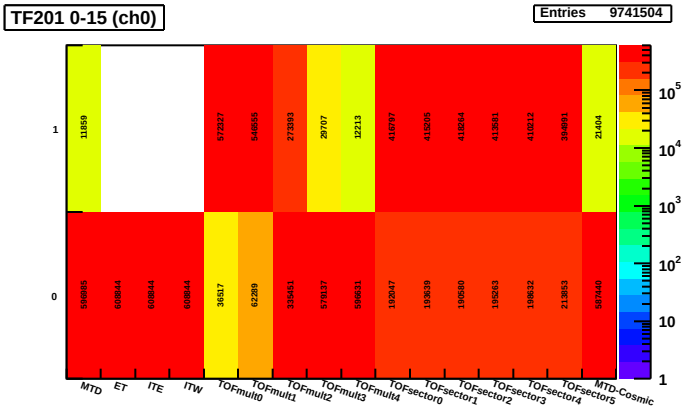

Input to FE001 QT board
Entries 1.948301e+07
ADC
channel

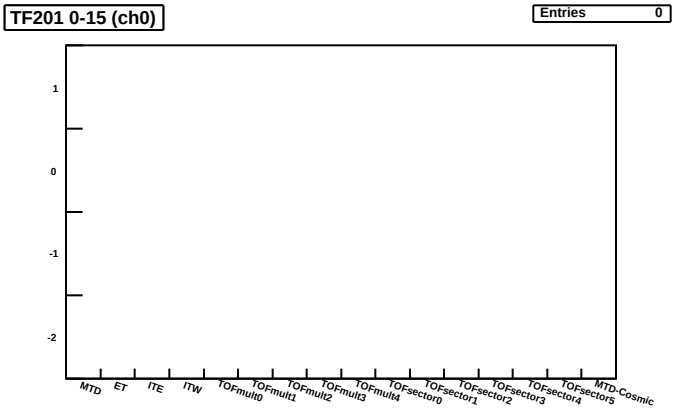

Input to FE002 QT board
Entries 1.948301e+07
ADC
channel

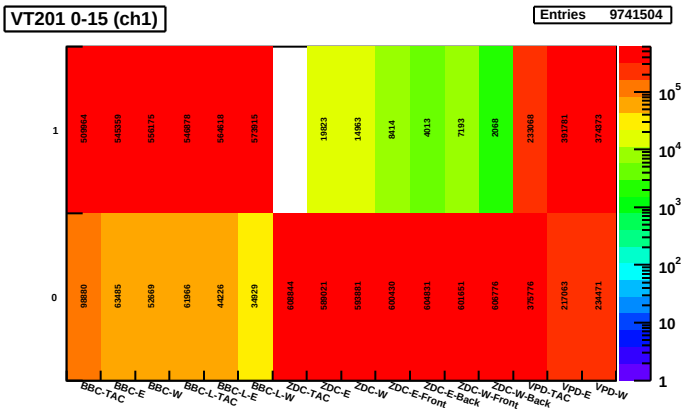

Input to FE003 QT board
Entries 1.948301e+07
ADC
channel

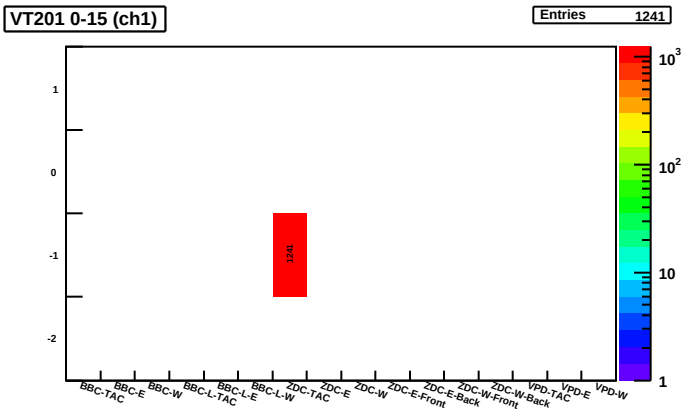

Input to FE004 QT board
Entries 1.948301e+07
ADC
channel


Input to FPE L1 DSM
Entries2435376
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 9741504
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 9741504
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 1241
1241
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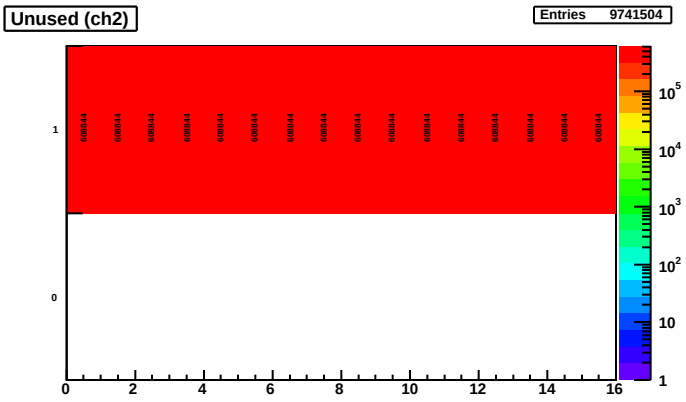
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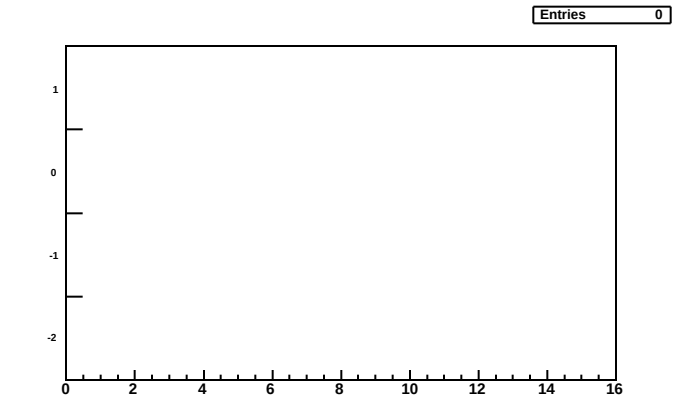
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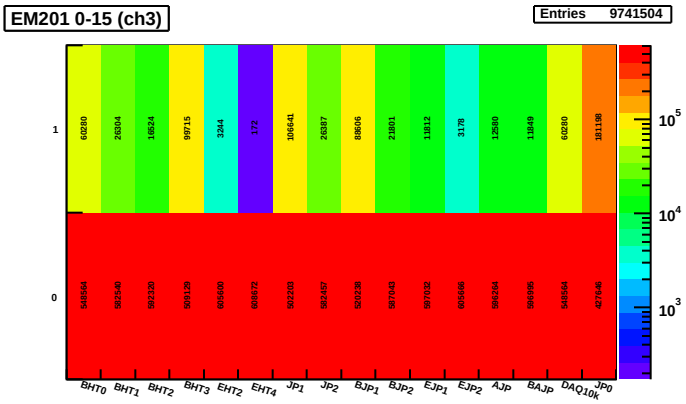
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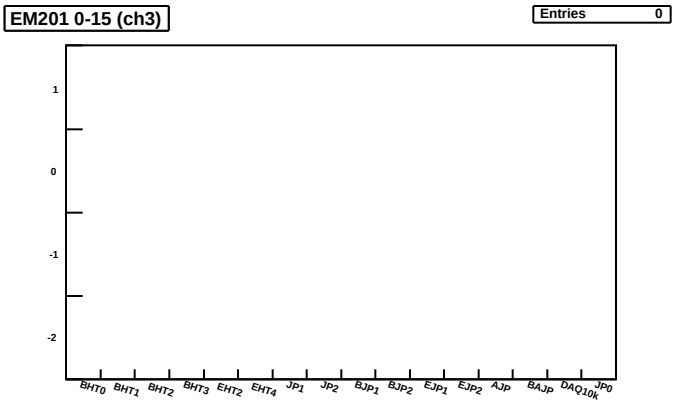
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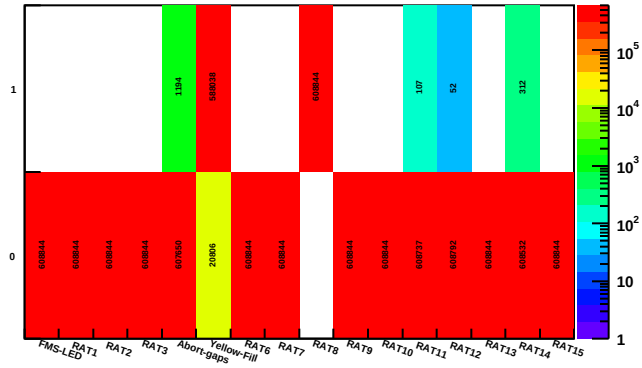
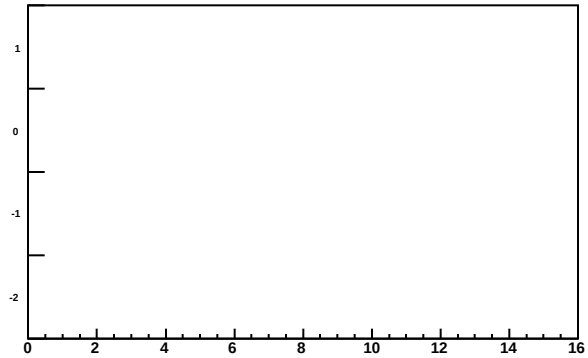
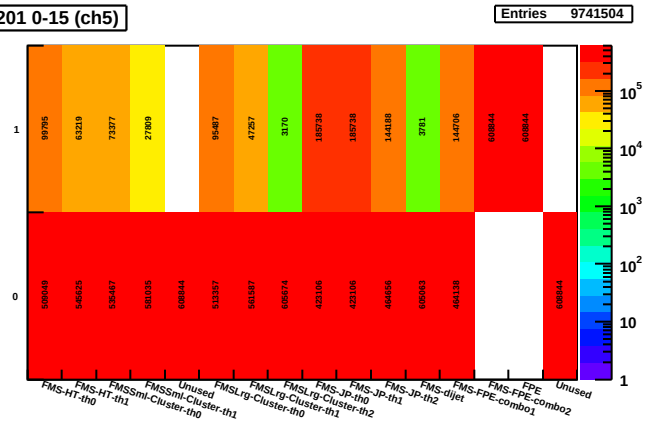
RAT board (ch4)

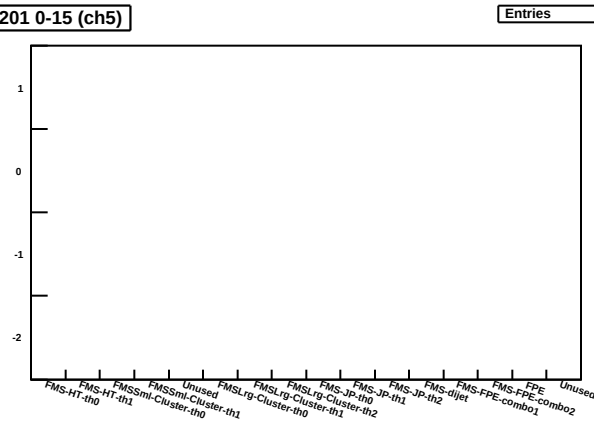




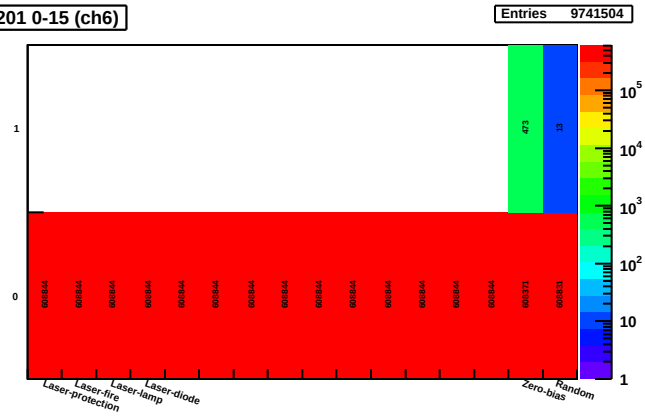
FP201 0-15 (ch5)

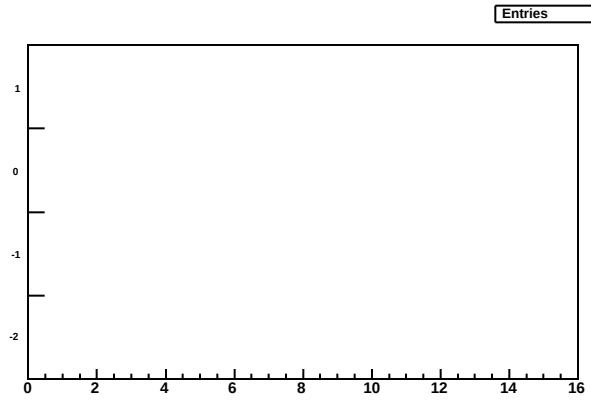
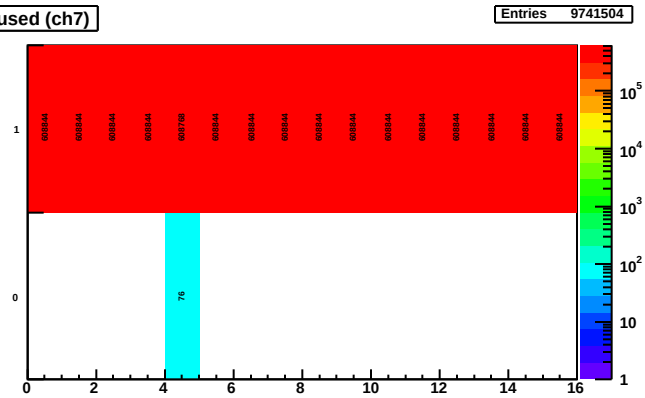
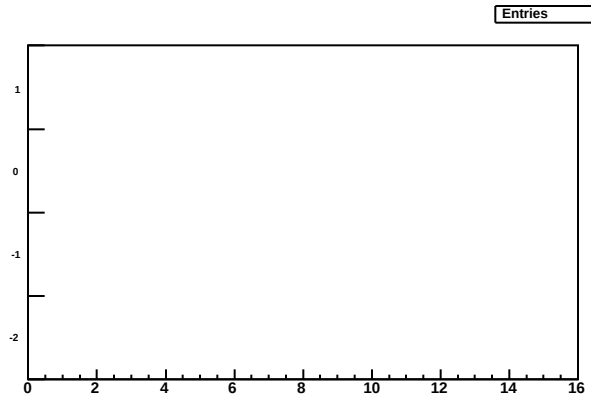


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)