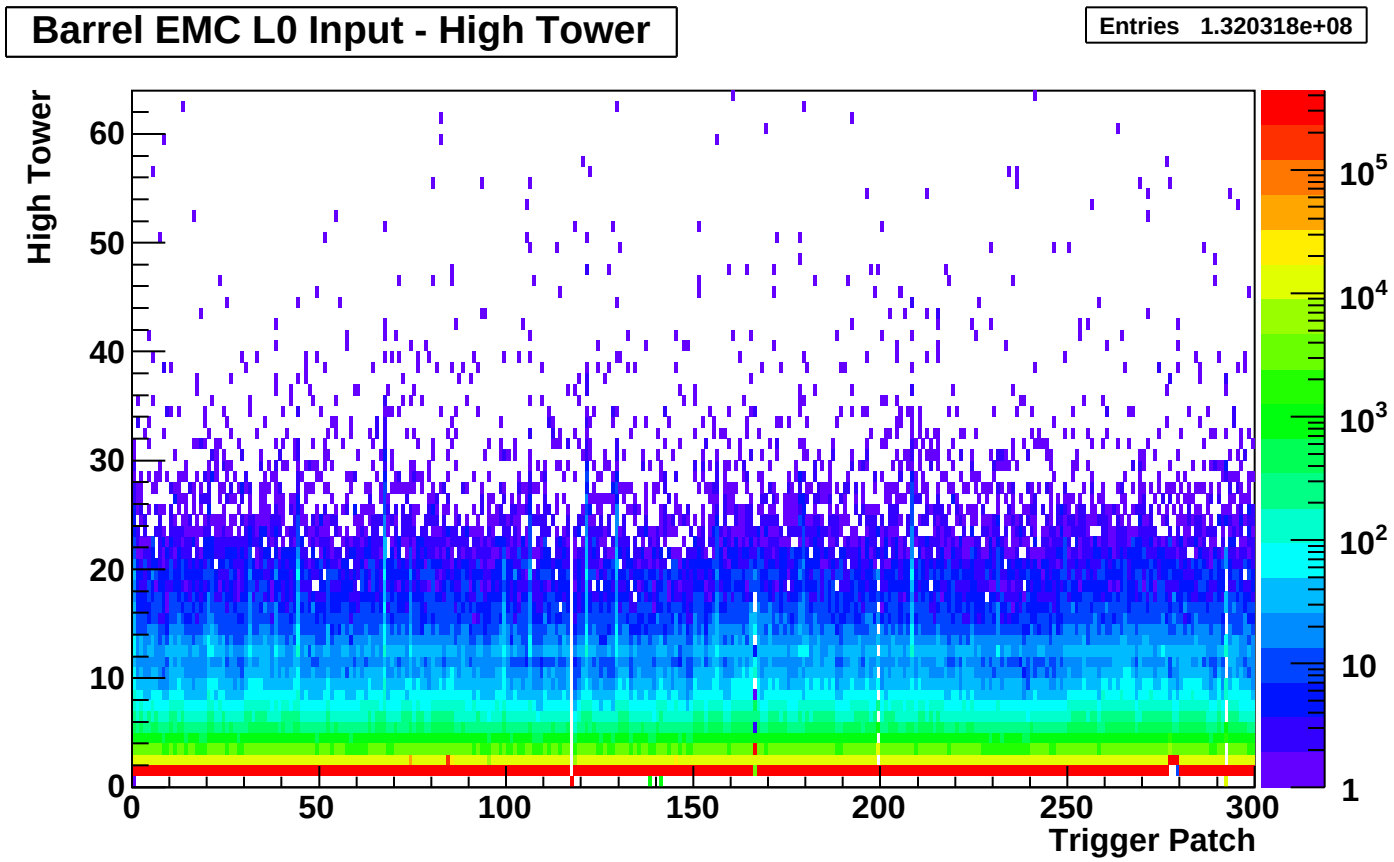
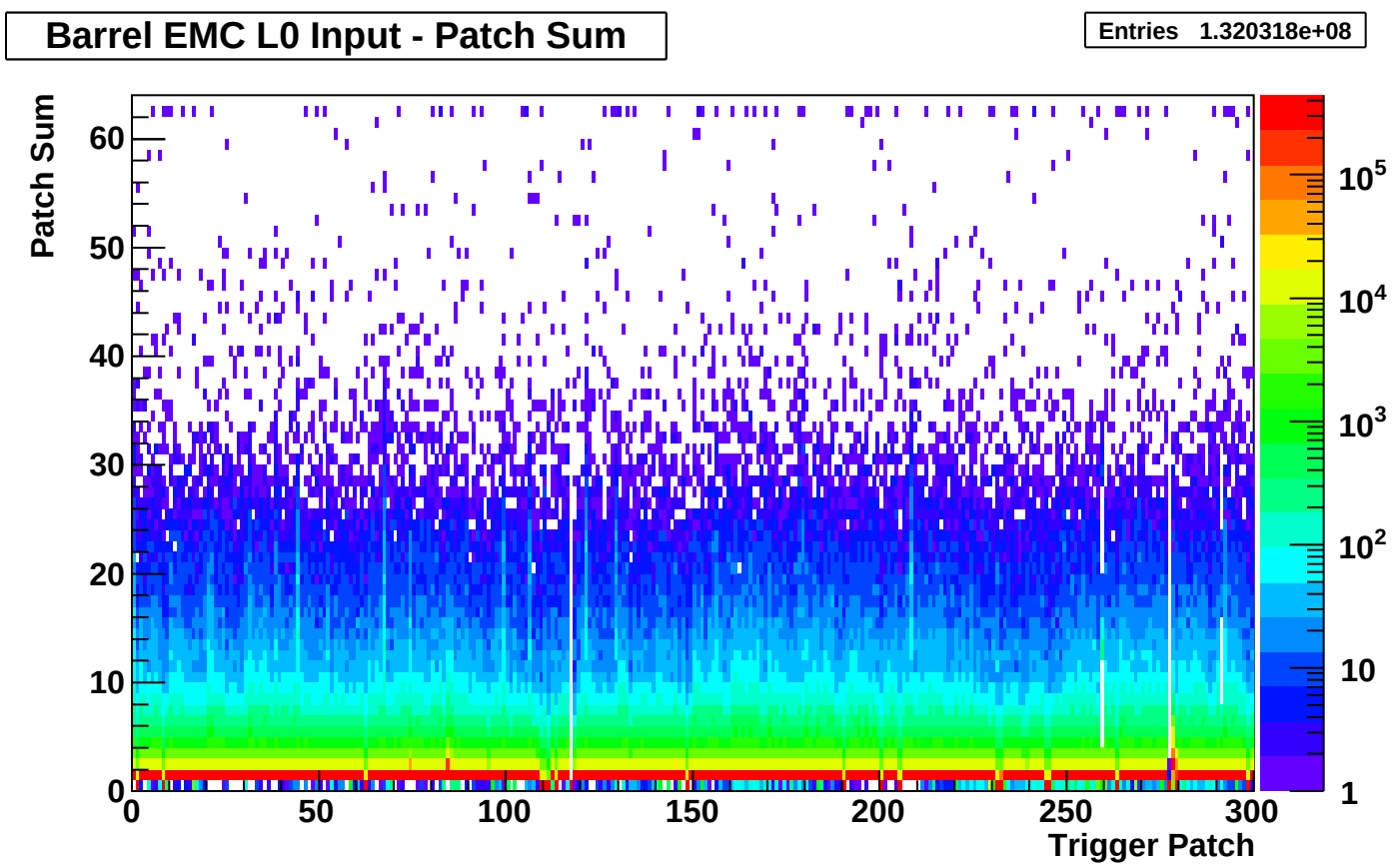
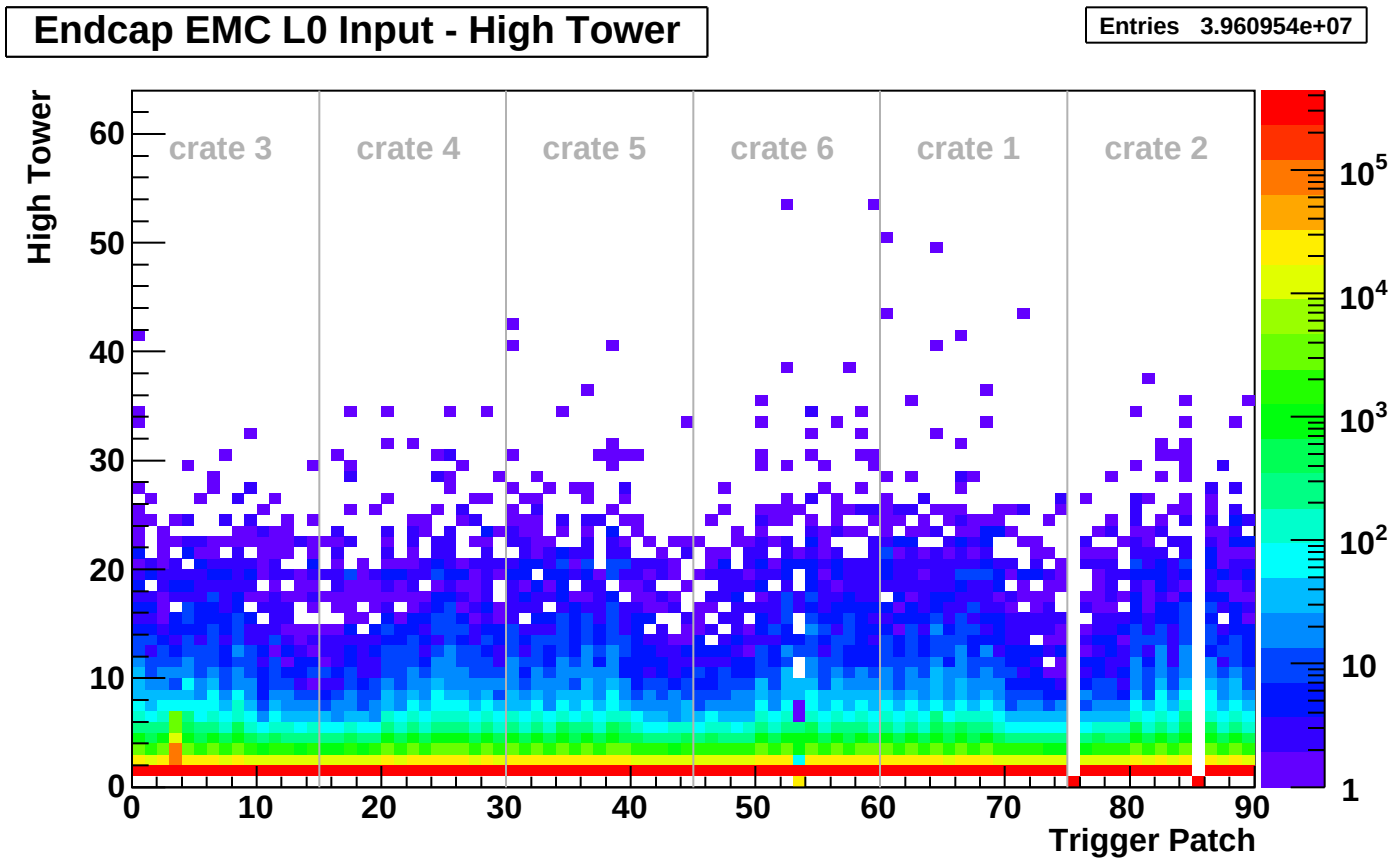
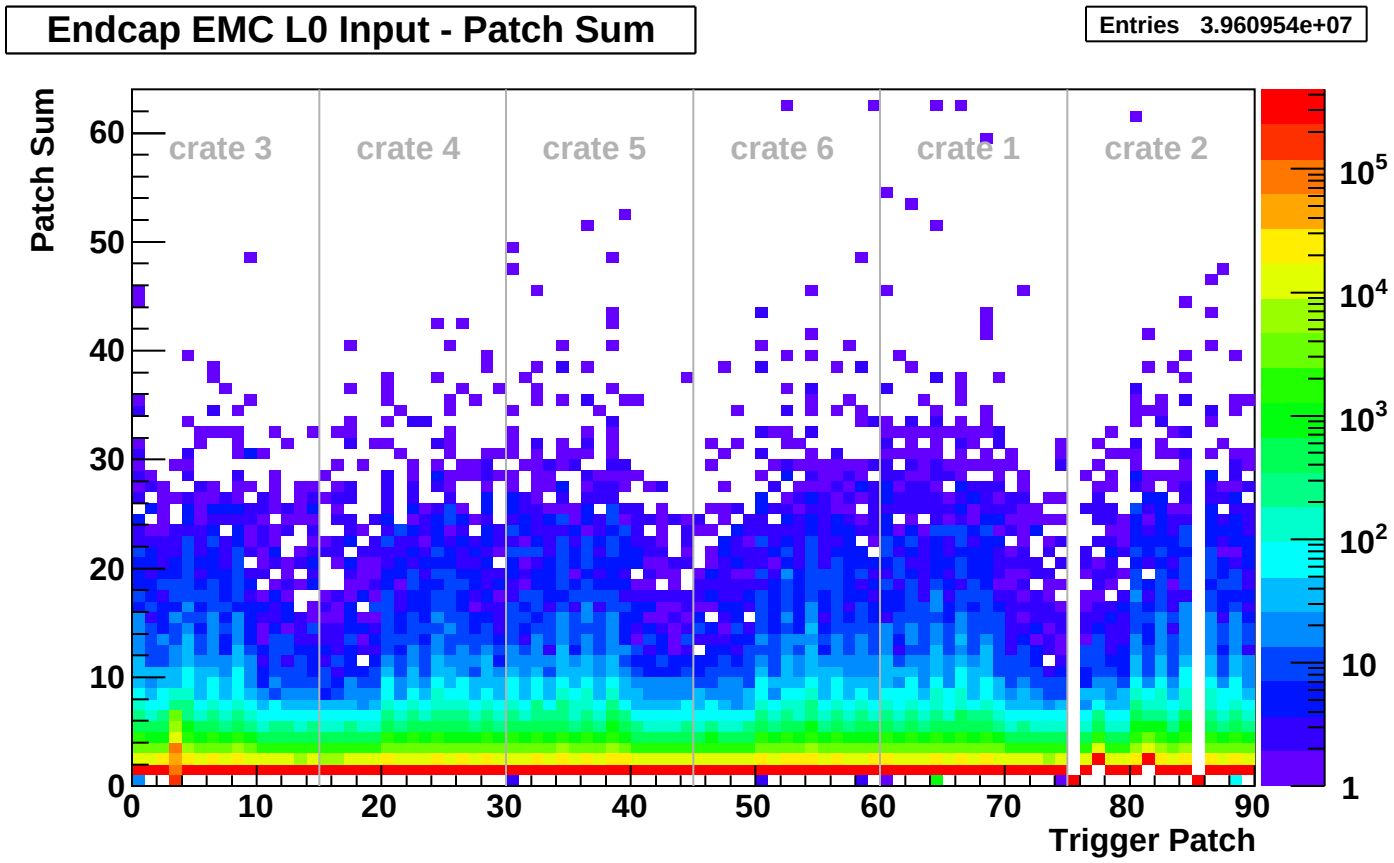
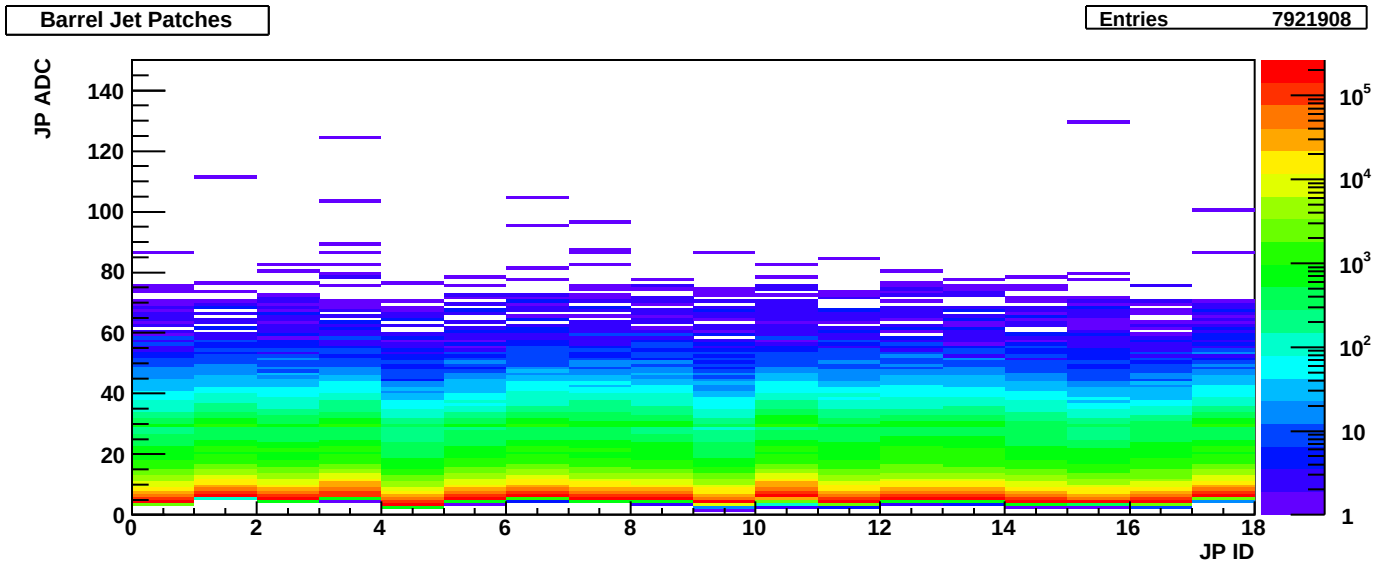
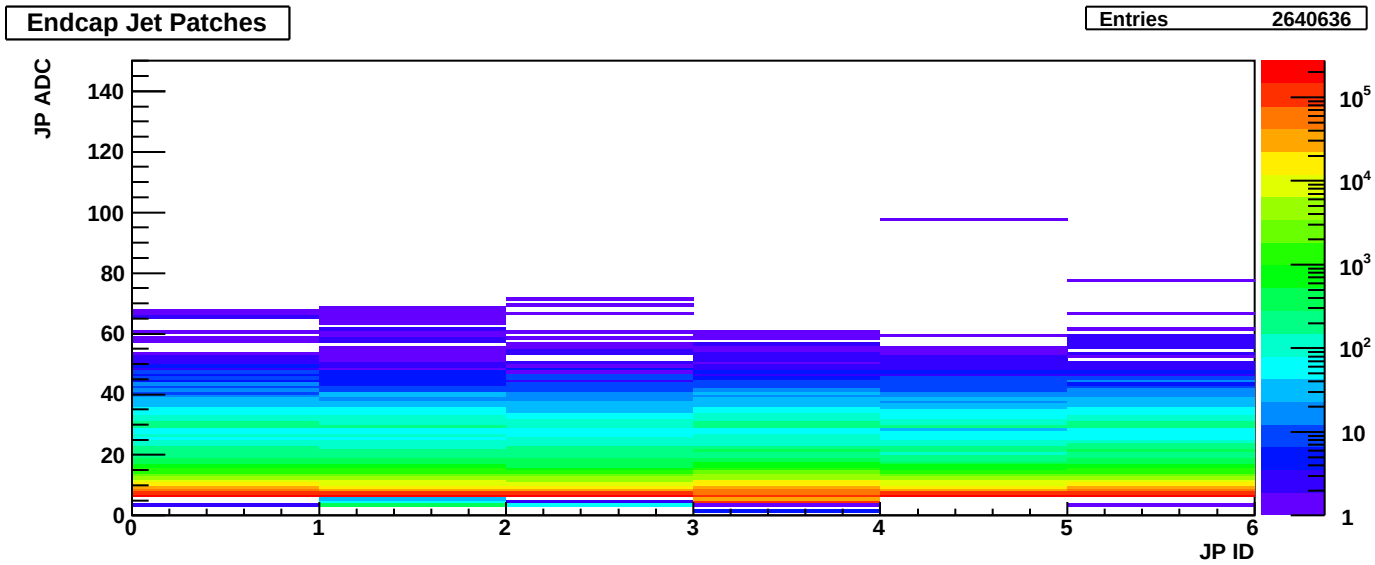

Barrel EMC L0 Input - High Tower
Entries 1.320318e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

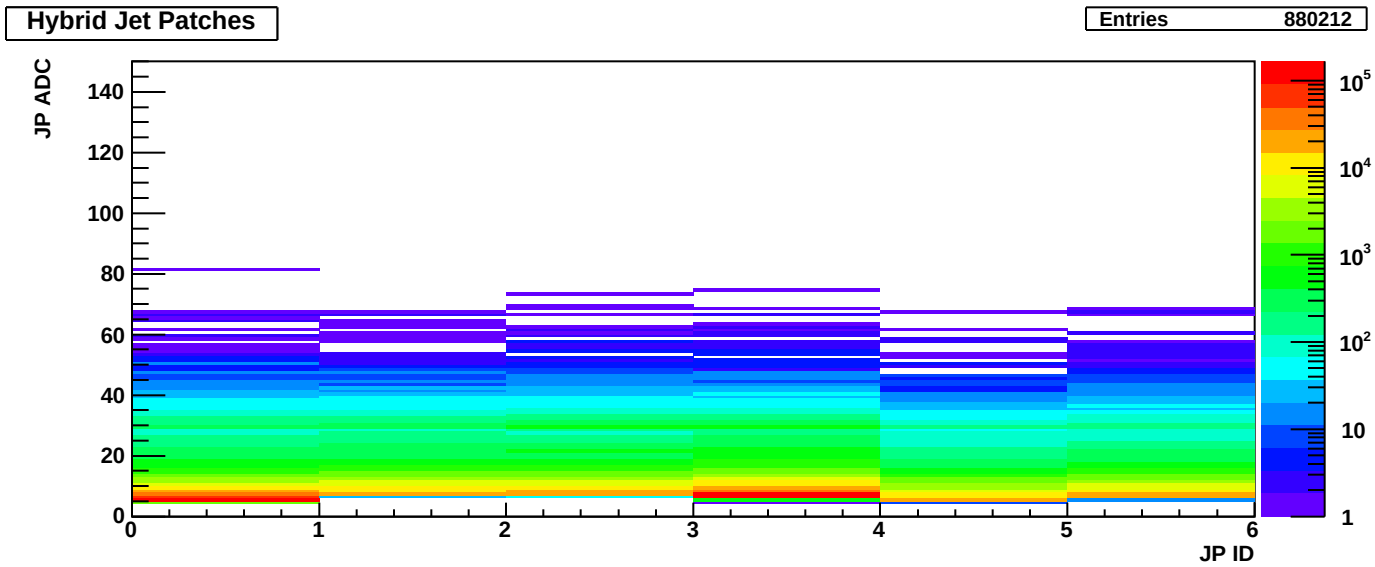

Barrel EMC L0 Input - Patch Sum
Entries 1.320318e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

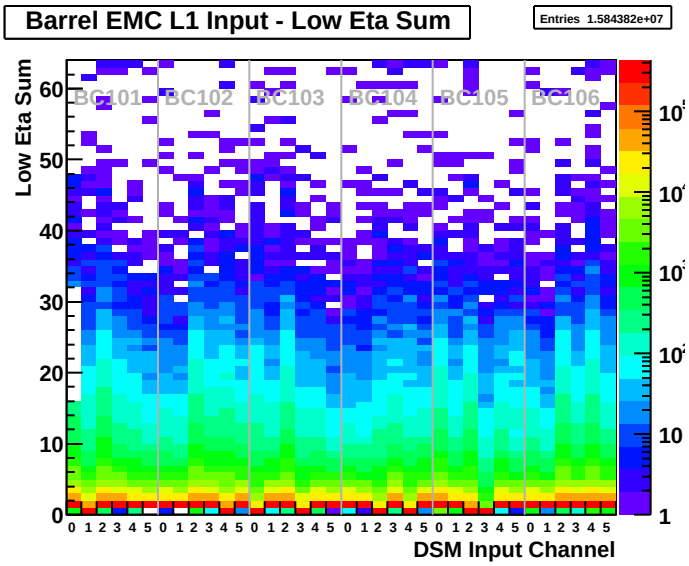

Endcap EMC L0 Input - High Tower
Entries 3.960954e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

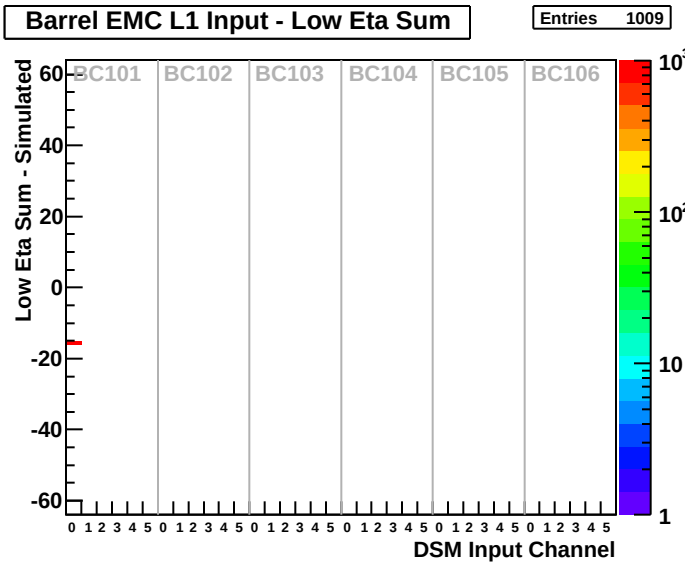

Endcap EMC L0 Input - Patch Sum
Entries 3.960954e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

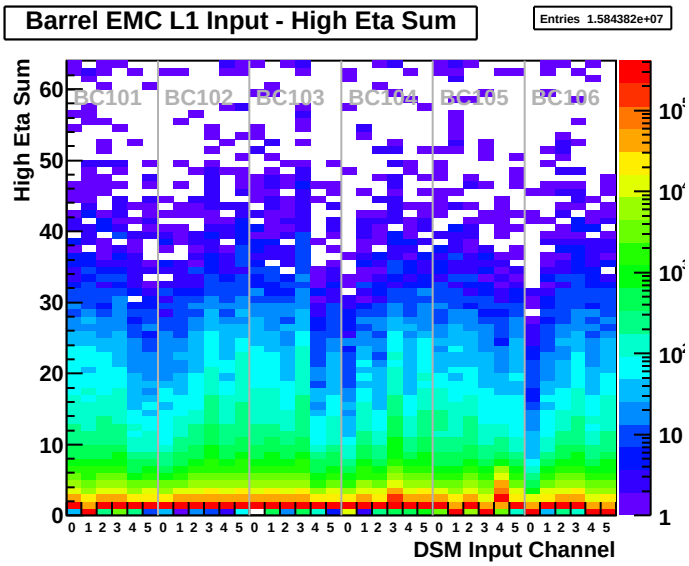

Barrel Jet Patches
Entries 7921908
JP ADC
JP ID

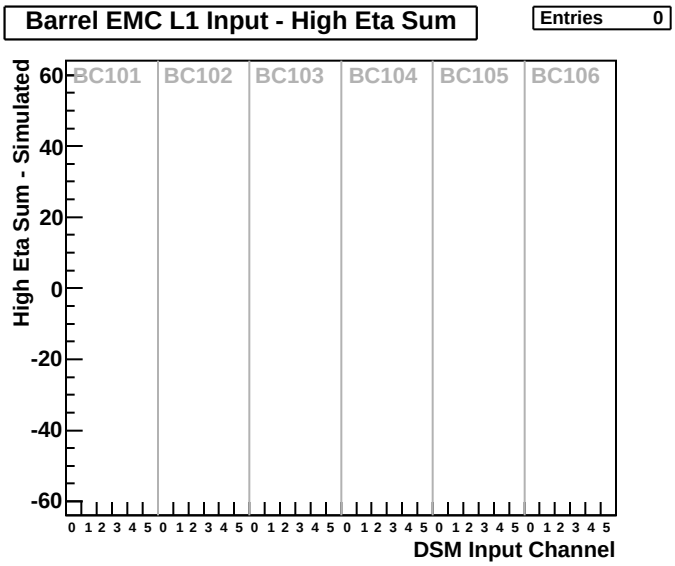

Endcap Jet Patches
Entries 2640636
JP ADC
JP ID

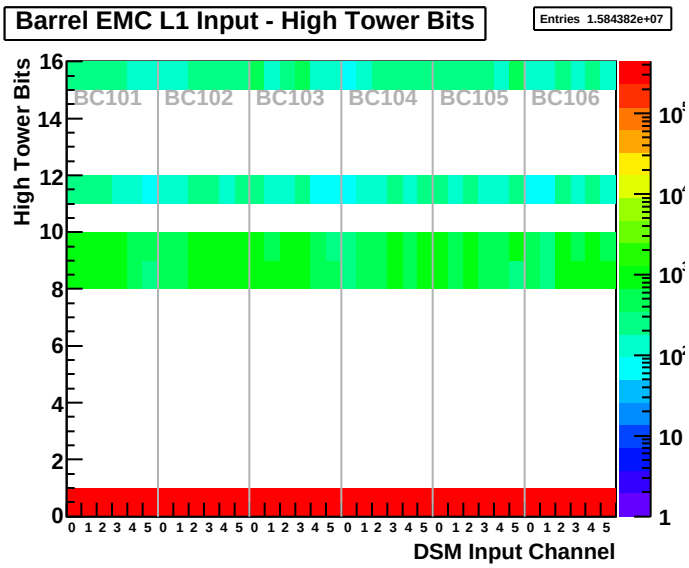

Hybrid Jet Patches
Entries 880212
JP ADC
JP ID

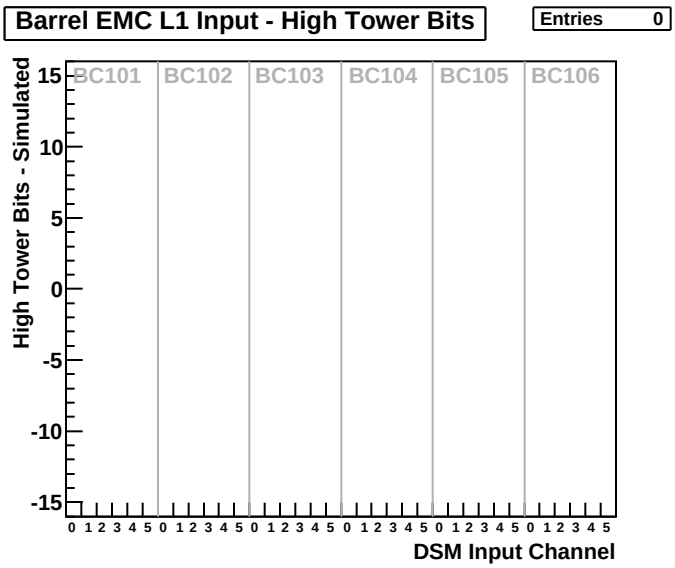

Barrel EMC L1 Input - Low Eta Sum
Entries 1.584382e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

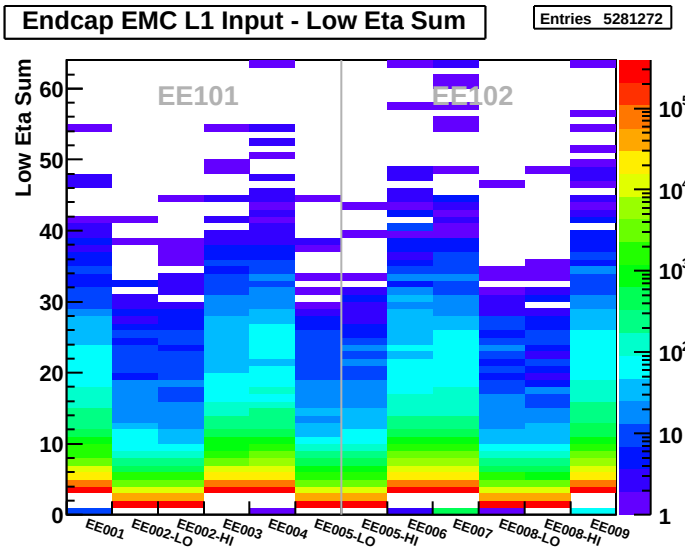

Barrel EMC L1 Input - Low Eta Sum
Entries 1009
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

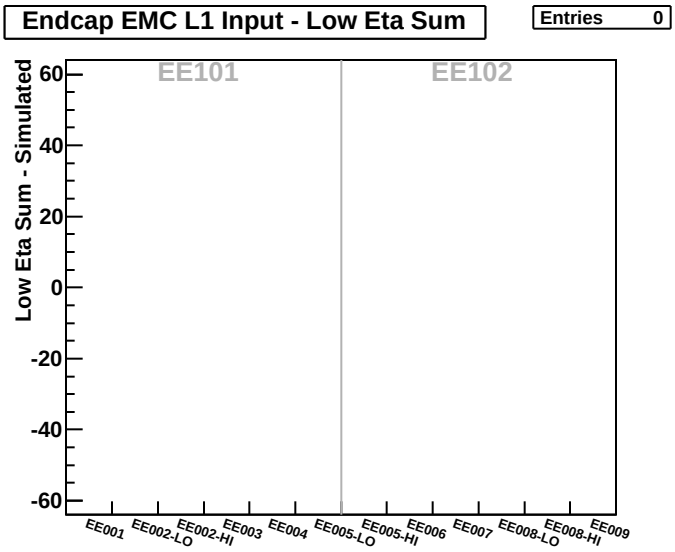

Barrel EMC L1 Input - High Eta Sum
Entries 1.584382e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

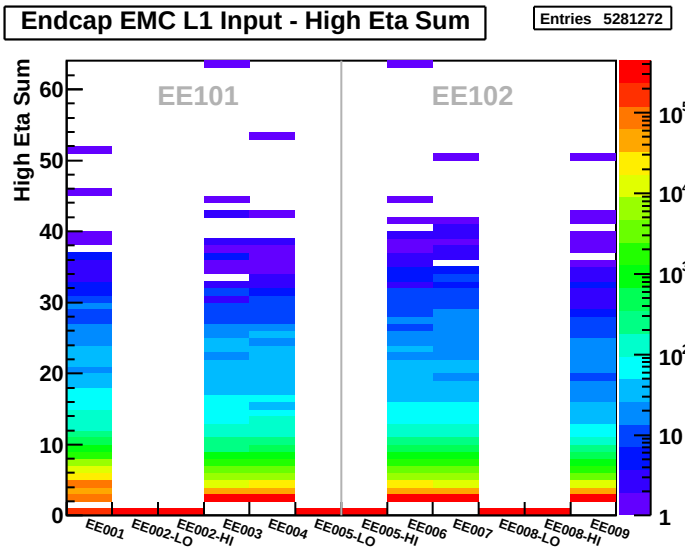

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

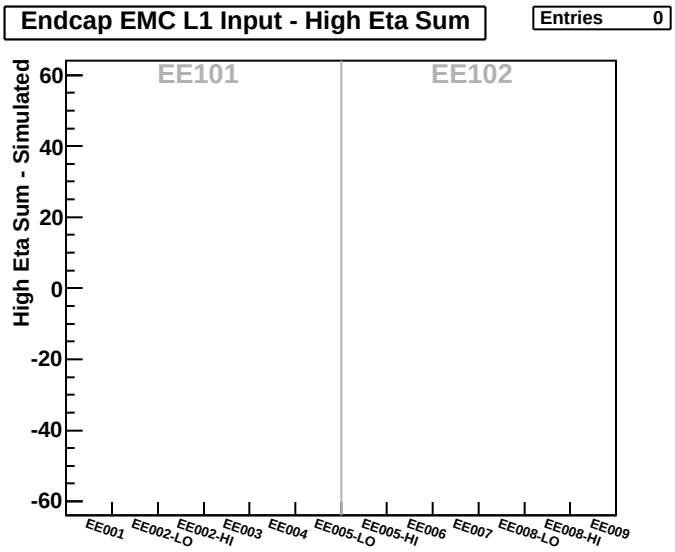

Barrel EMC L1 Input - High Tower Bits
Entries 1.584382e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

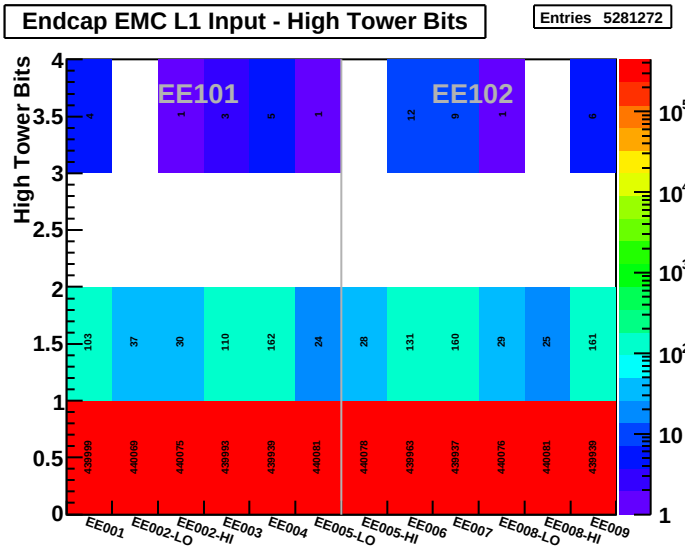

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

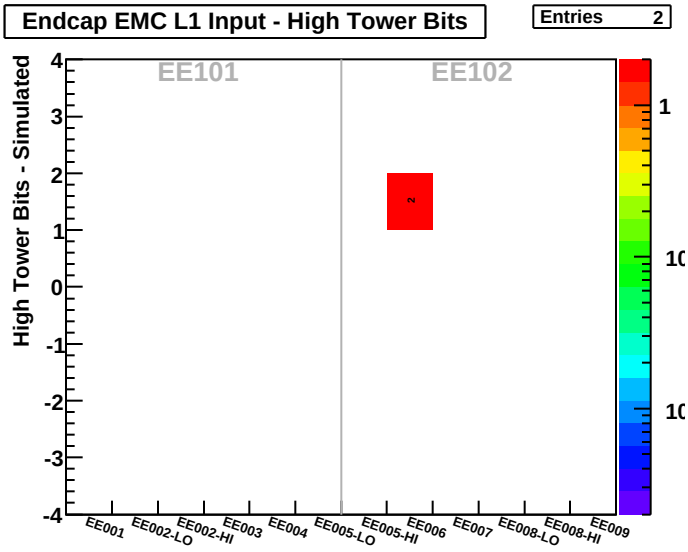

Endcap EMC L1 Input - Low Eta Sum
Entries 5281272
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

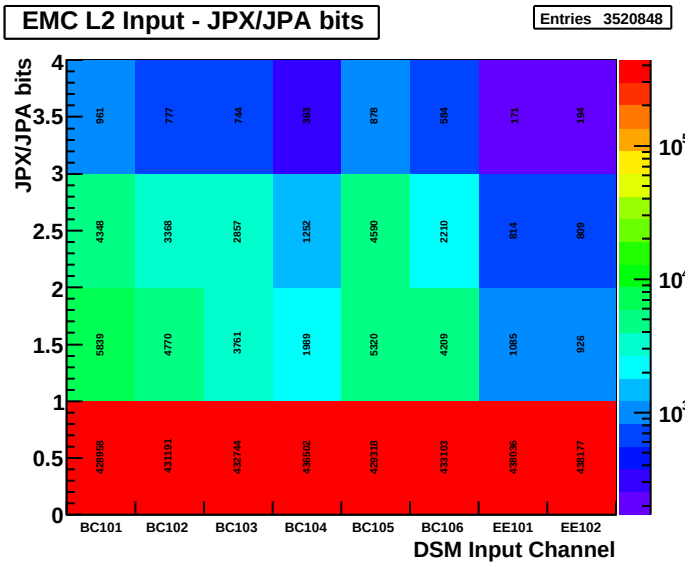

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

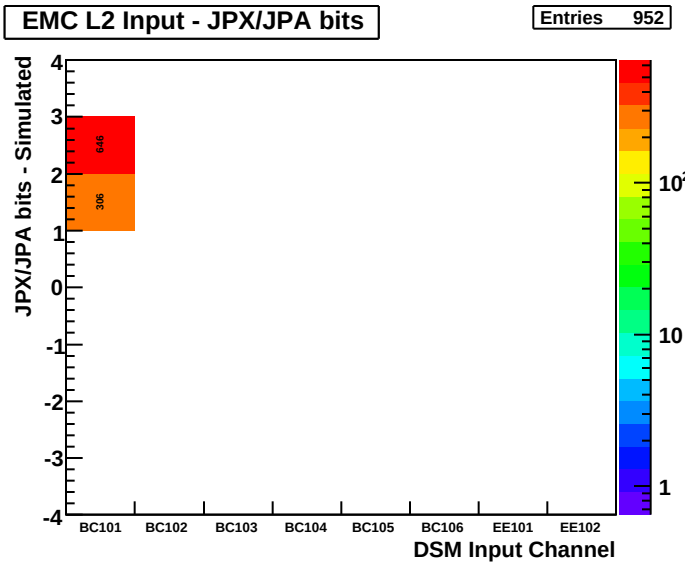

Endcap EMC L1 Input - High Eta Sum
Entries 5281272
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

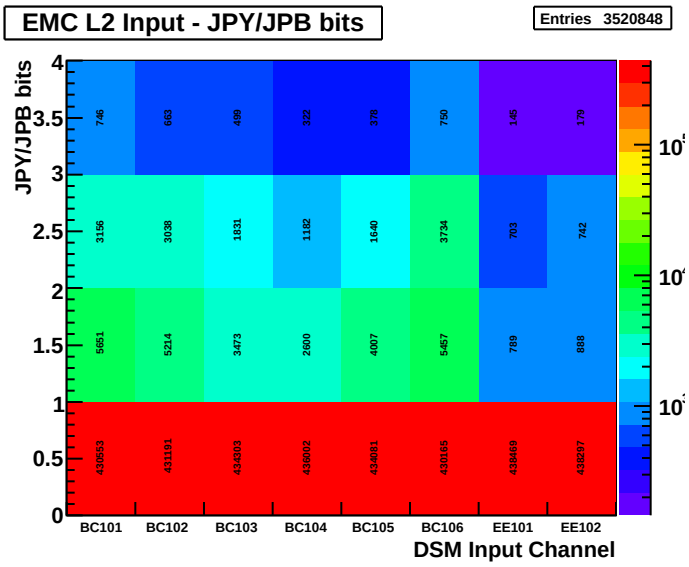

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

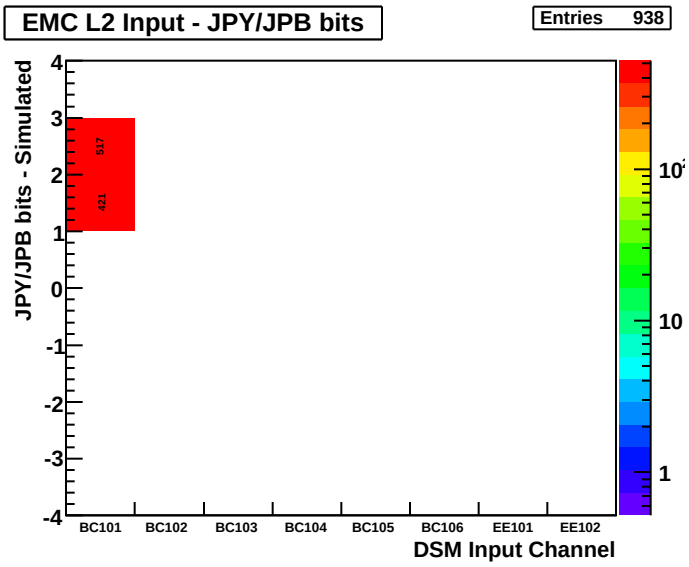

Endcap EMC L1 Input - High Tower Bits
Entries 5281272
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

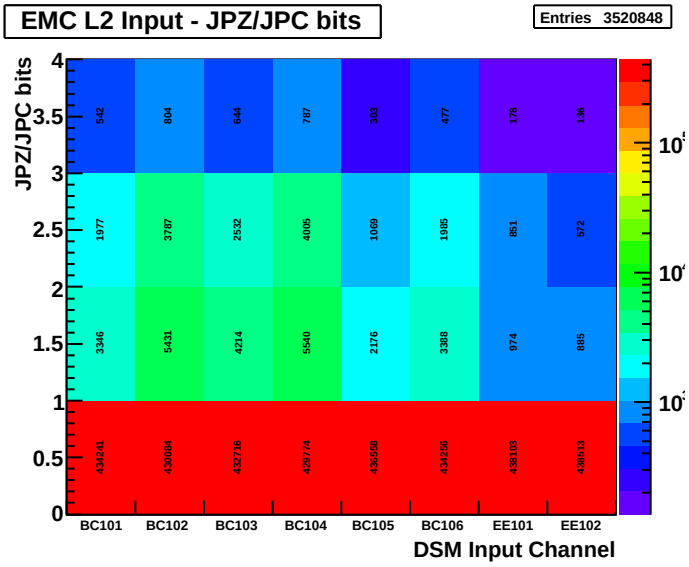

Endcap EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

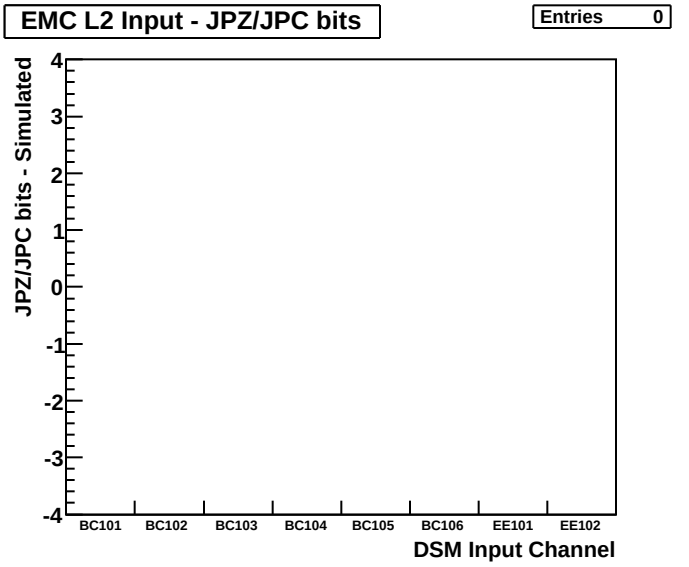

EMC L2 Input - JPX/JPA bits
Entries 3520848
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
961 777 744 363 878 584 171 194
4348 3368 2857 1252 4590 2210 814 809
5839 4770 3761 1989 5320 4209 1085 926
429938 431191 432744 436502 429318 433103 438036 438177

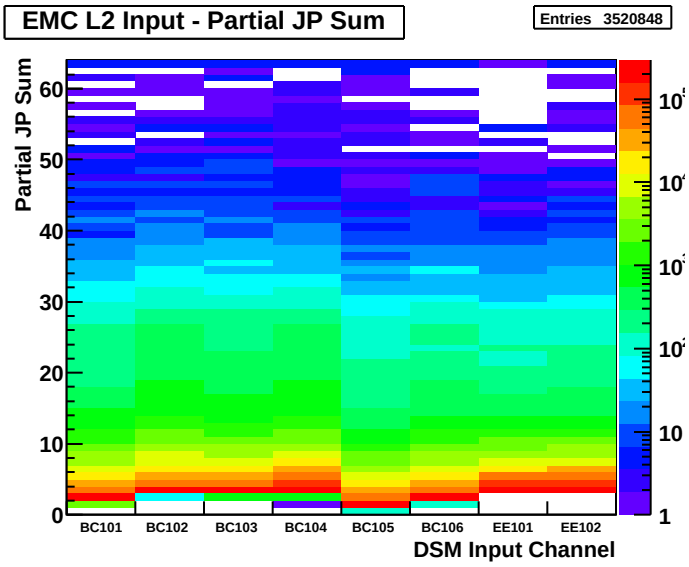

EMC L2 Input - JPX/JPA bits
Entries 952
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
646
306

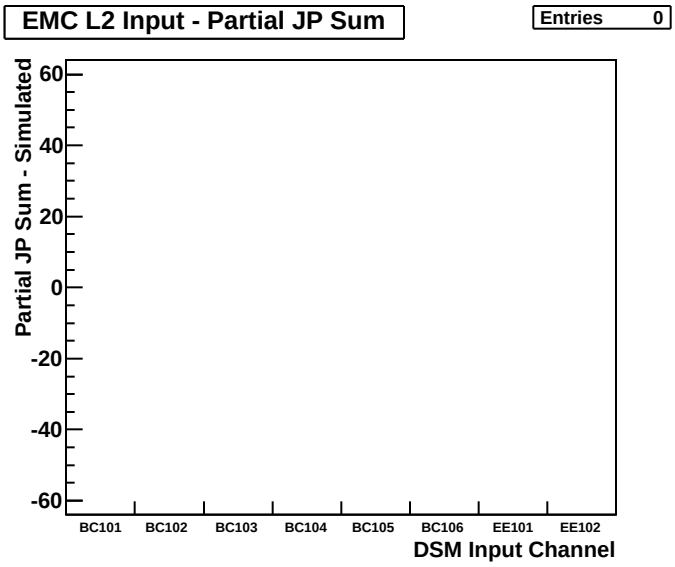

EMC L2 Input - JPY/JPB bits
Entries 3520848
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
746 663 499 322 378 750 145 179
3156 3038 1831 1182 1640 3734 703 742
5651 5214 3473 2600 4007 5467 789 888
430553 431191 434203 436002 434081 430165 438469 438297

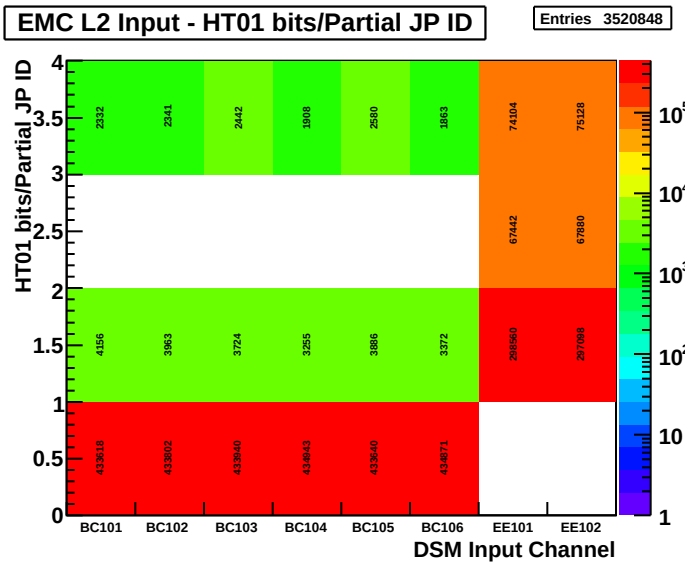

EMC L2 Input - JPY/JPB bits
Entries 938
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
517
421

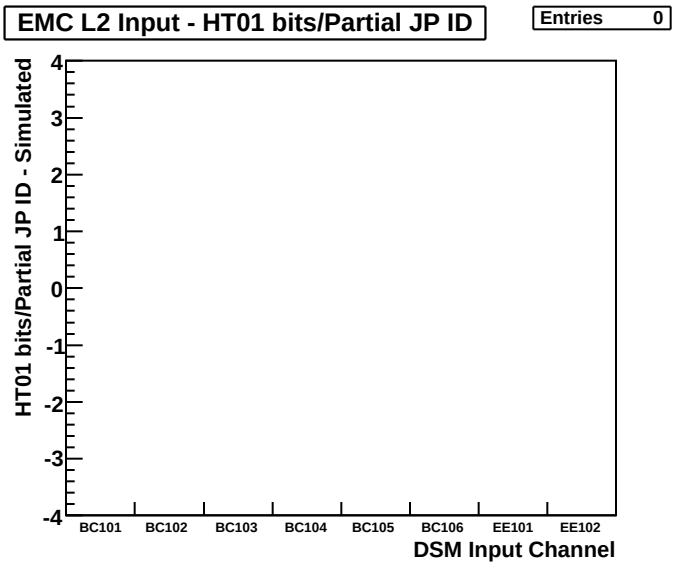

EMC L2 Input - JPZ/JPC bits
Entries 3520848
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
542 804 644 767 303 477 178 136
1977 3767 2532 4005 1069 1985 851 572
3346 5431 4214 5540 2176 3388 974 885
434241 430094 432716 429774 436598 434256 438103 438513

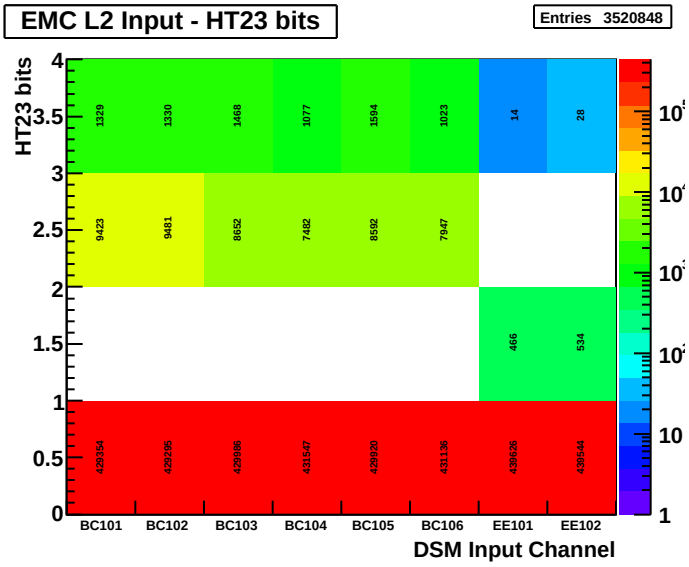

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

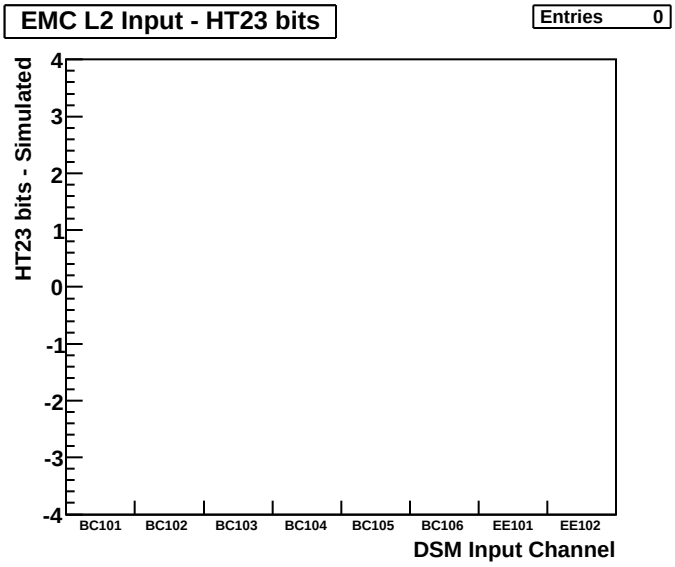

EMC L2 Input - Partial JP Sum
Entries 3520848
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

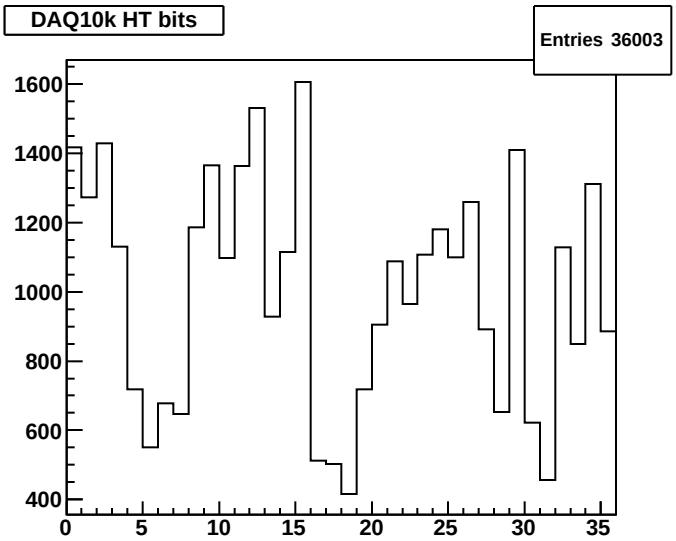

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

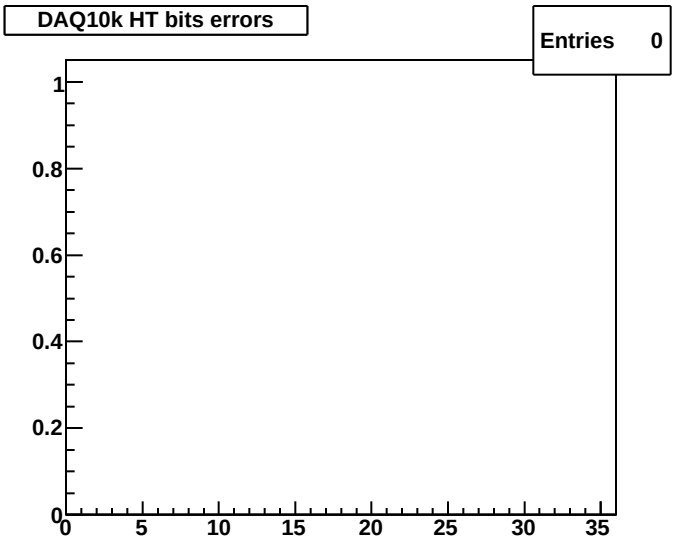

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3520848
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

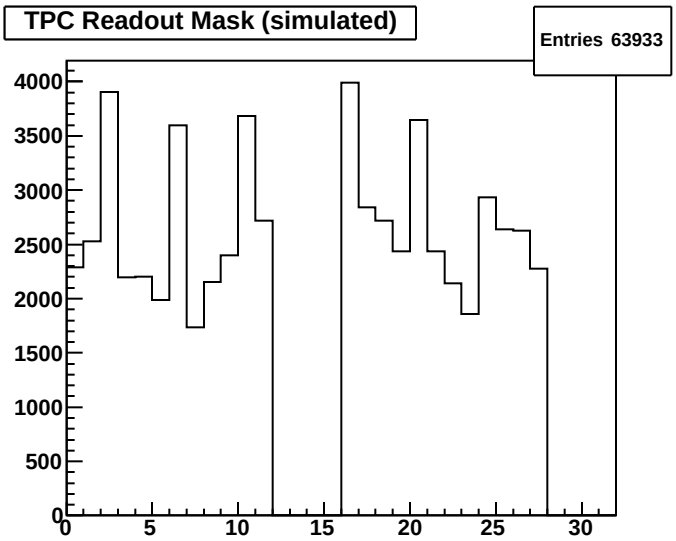

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

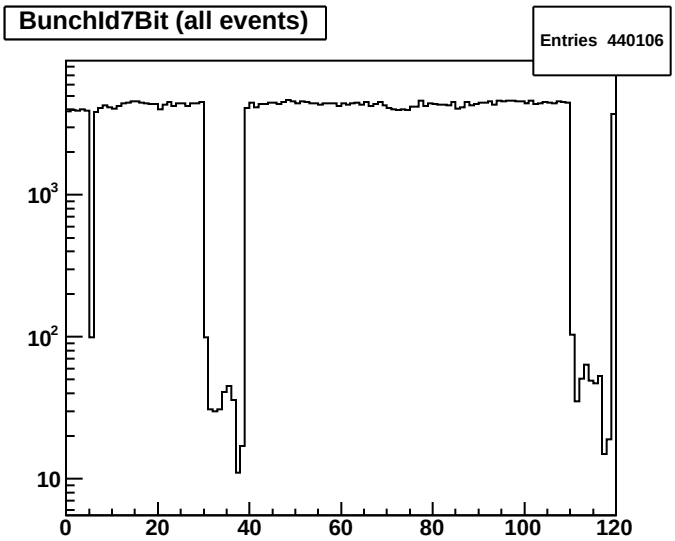

EMC L2 Input - HT23 bits
Entries 3520848
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

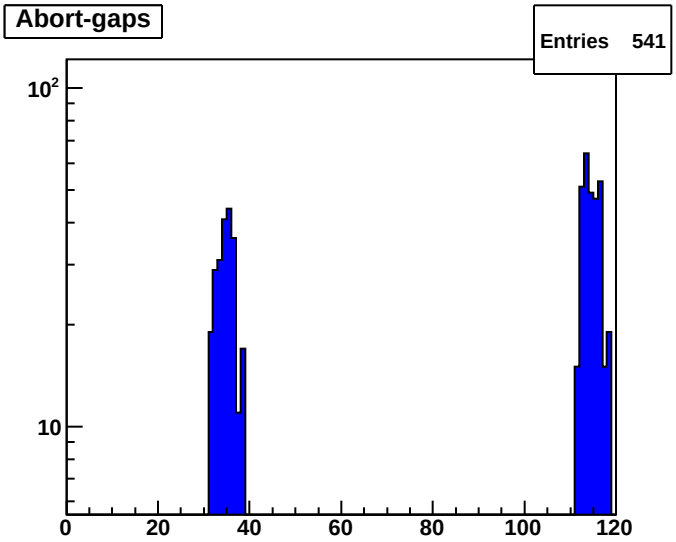

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

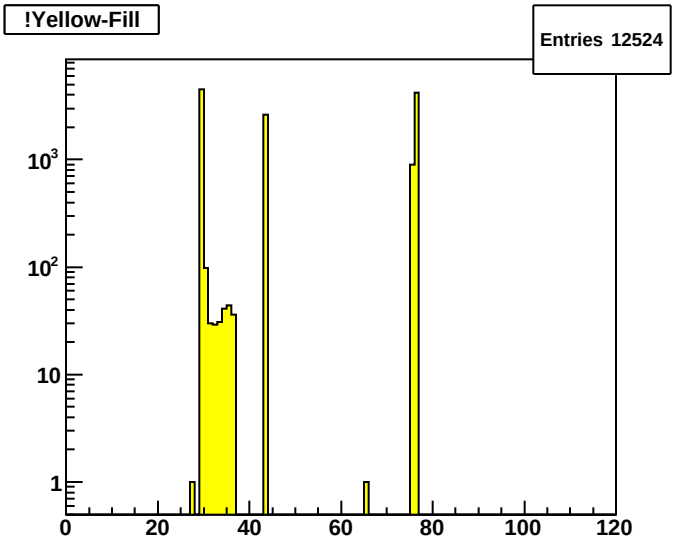

DAQ10k HT bits
Entries 36003

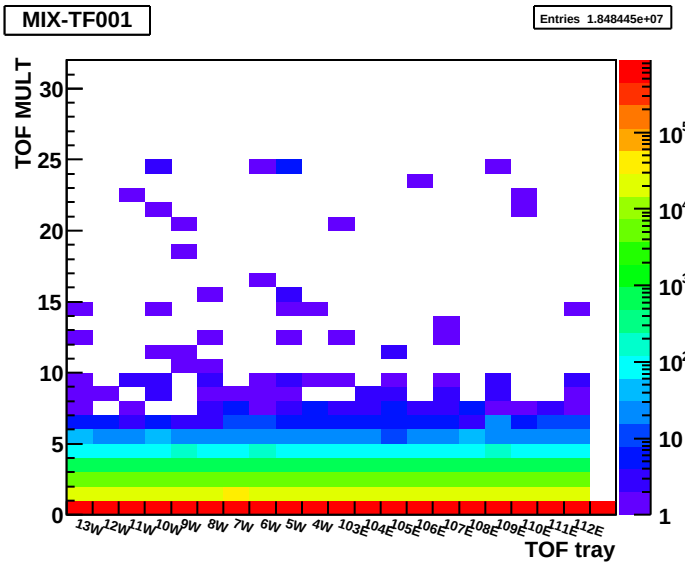

DAQ10k HT bits errors
Entries 0

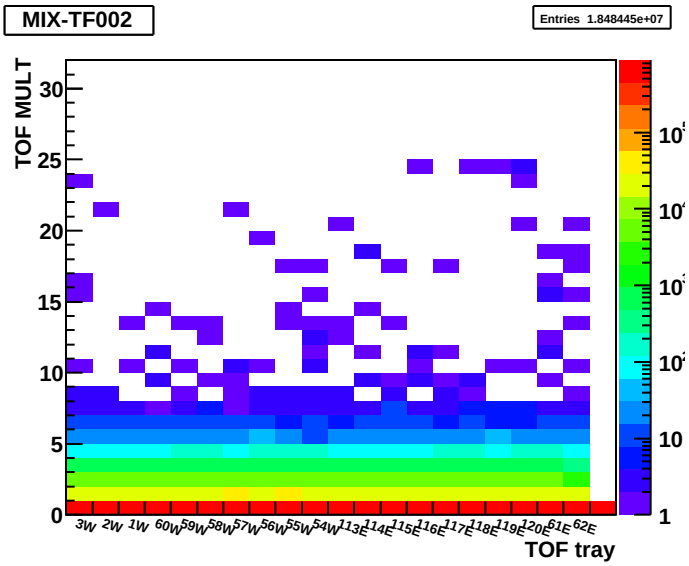

TPC Readout Mask (simulated)
Entries 63933

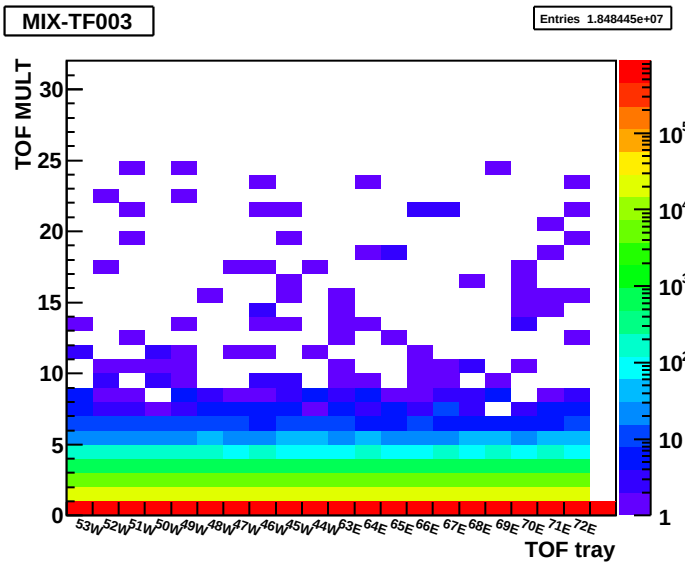

BunchId7Bit (all events)
Entries 440106

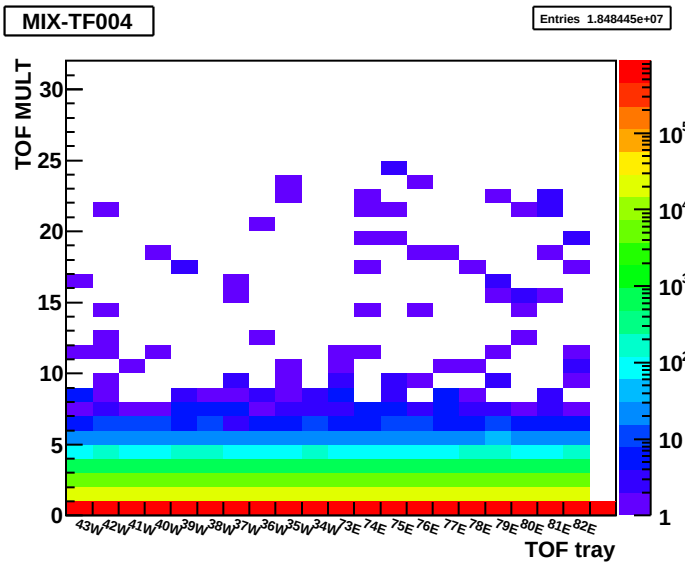

Abort-gaps
Entries 541

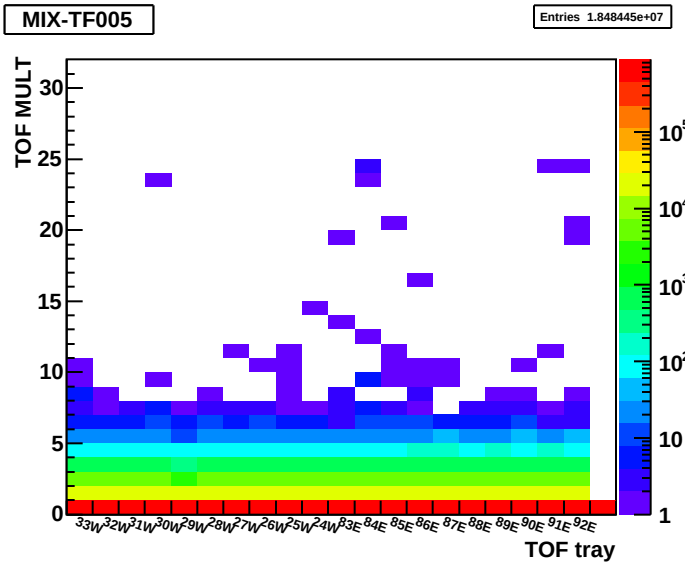

!Yellow-Fill
Entries 12524

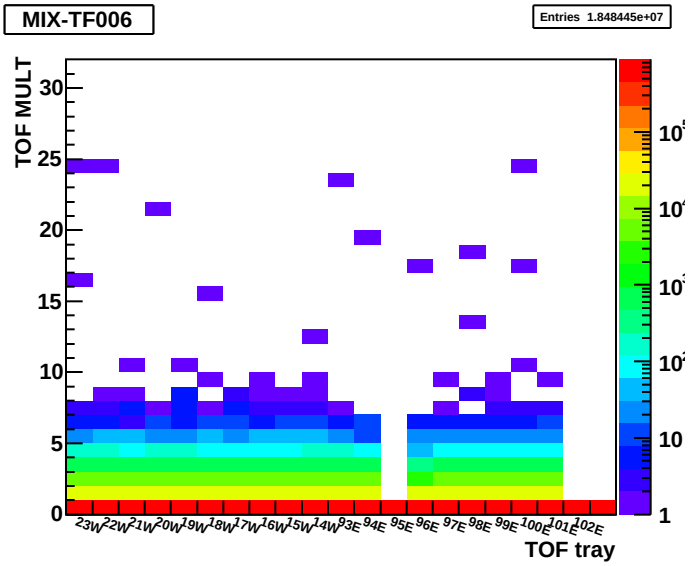

MIX-TF001
Entries 1.848445e+07
TOF MULT
TOF tray

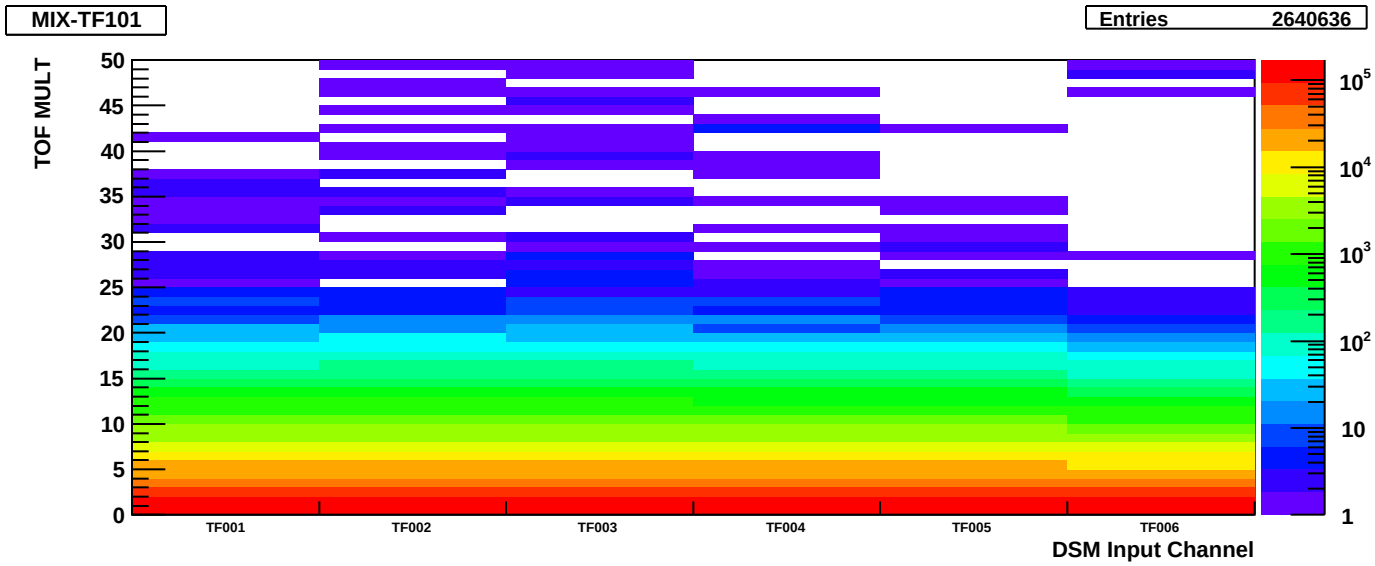

MIX-TF002
Entries 1.848445e+07
TOF MULT
TOF tray

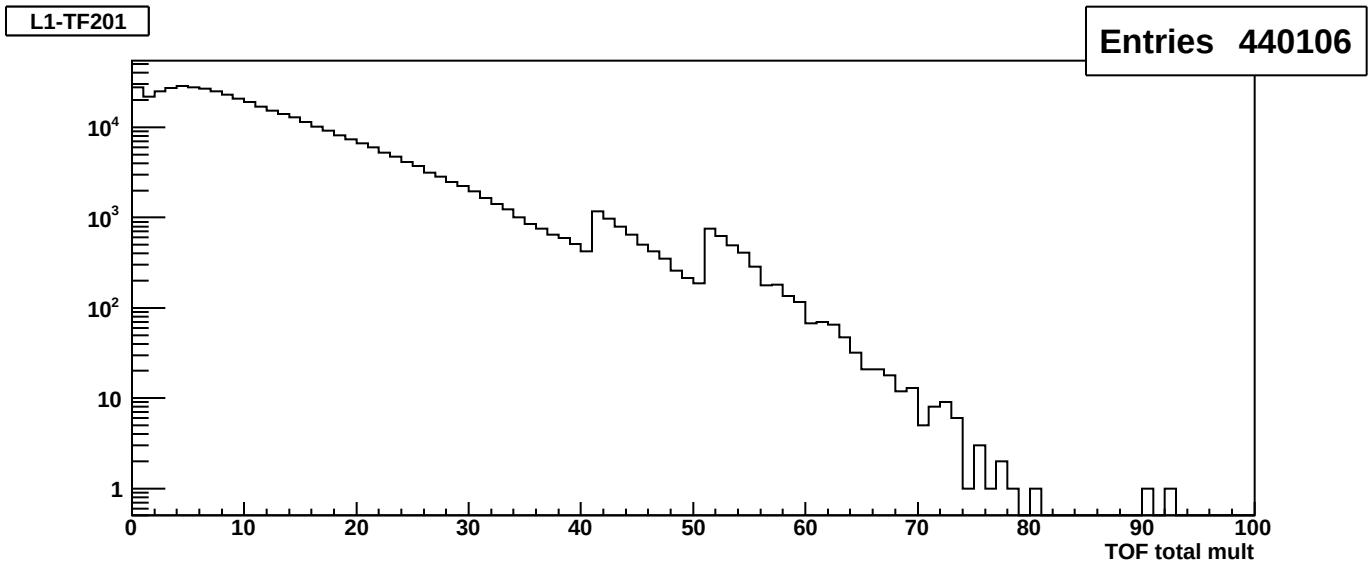

MIX-TF003
Entries 1.848445e+07
TOF MULT
TOF tray

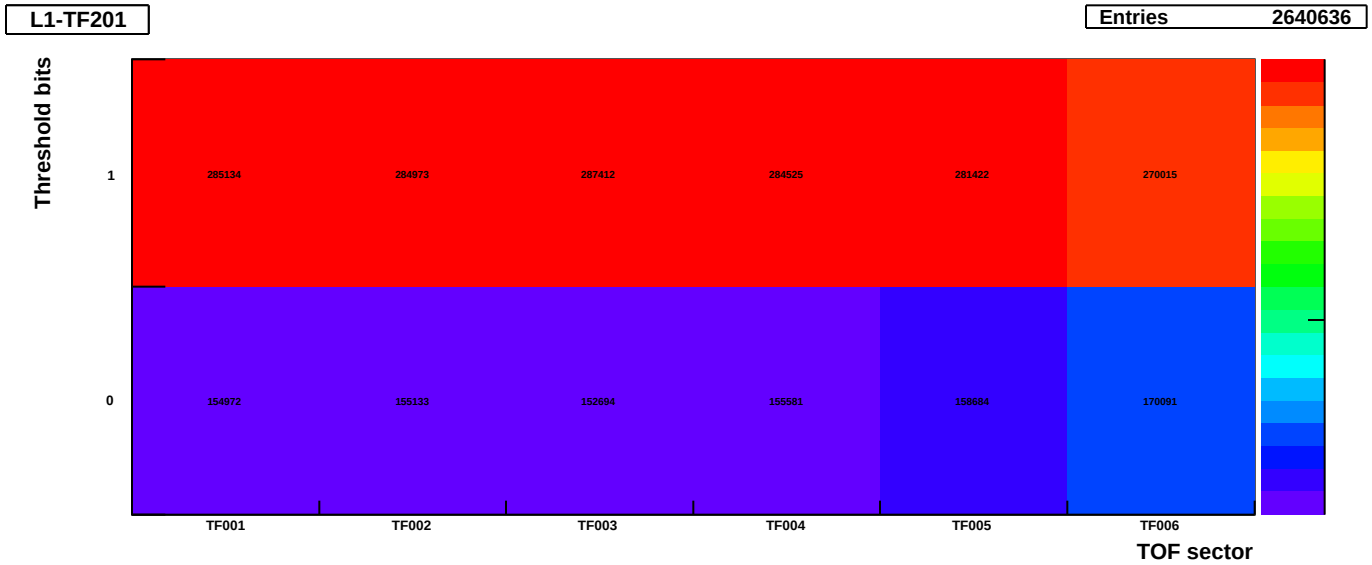

MIX-TF004
Entries 1.848445e+07
TOF MULT
TOF tray

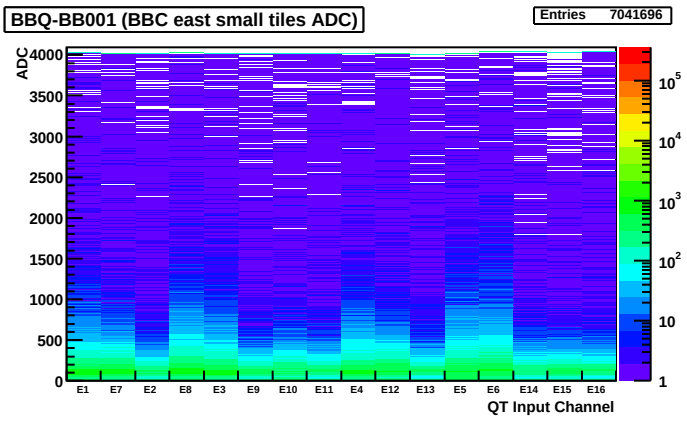

MIX-TF005
Entries 1.848445e+07
TOF MULT
TOF tray

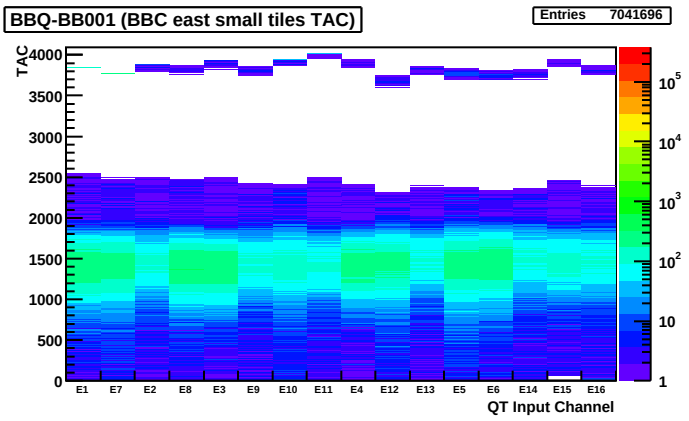

MIX-TF006
Entries 1.848445e+07
TOF MULT
TOF tray

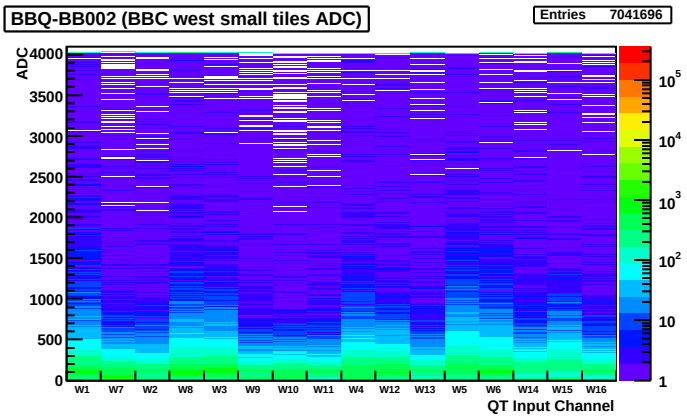

MIX-TF101
Entries 2640636
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

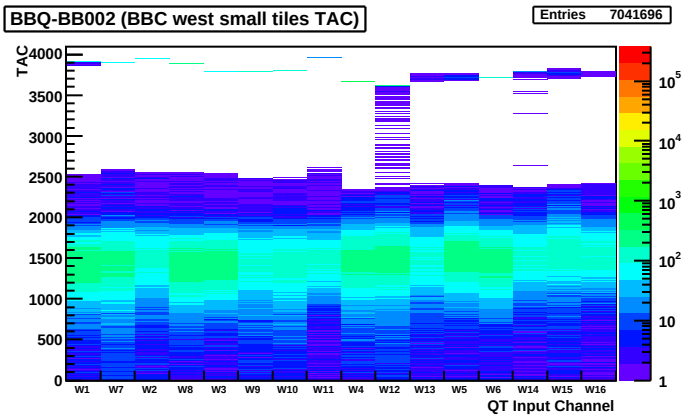

L1-TF201
Entries 440106
TOF total mult

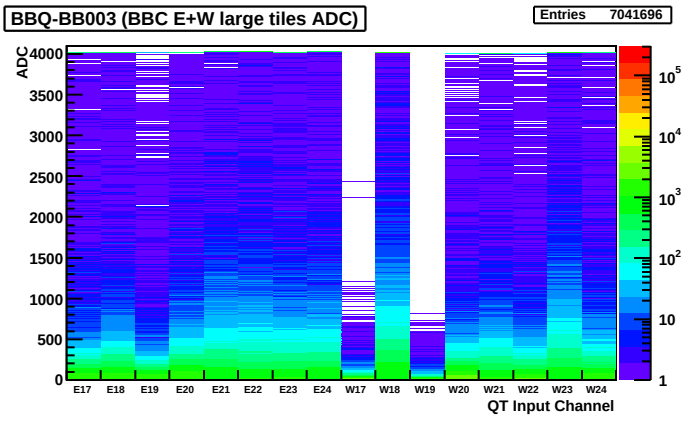

L1-TF201
Entries 2640636
Threshold bits
285134
284973
287412
284525
281422
270015
154972
155133
152694
155581
158684
170091
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

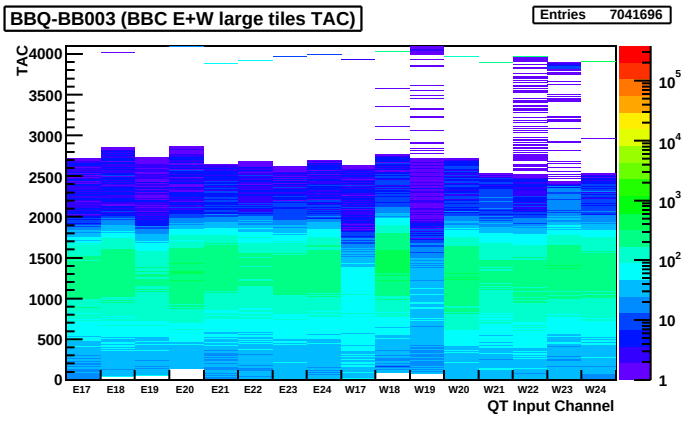

BBQ-BB001 (BBC east small tiles ADC)
Entries 7041696
ADC
QT Input Channel

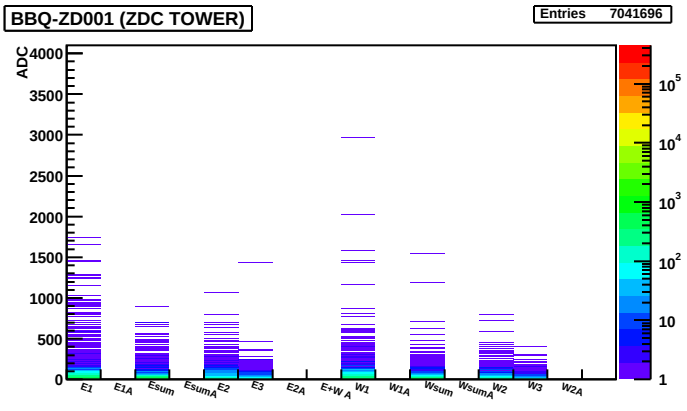

BBQ-BB001 (BBC east small tiles TAC)
Entries 7041696
TAC
QT Input Channel

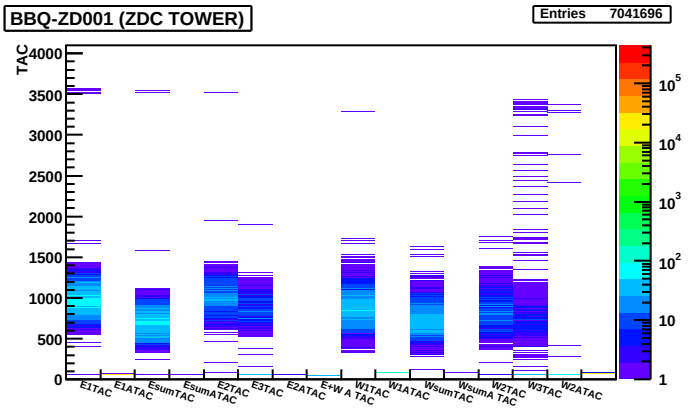

BBQ-BB002 (BBC west small tiles ADC)
Entries 7041696
ADC
QT Input Channel

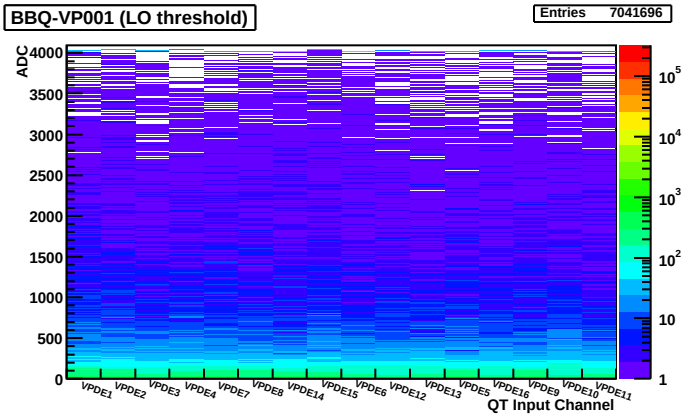

BBQ-BB002 (BBC west small tiles TAC)
Entries 7041696
TAC
QT Input Channel

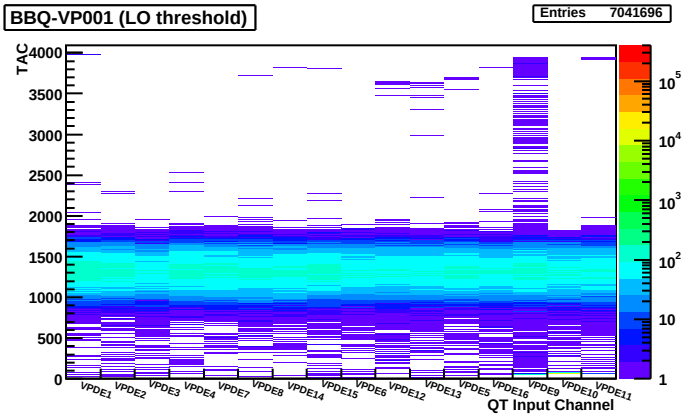

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7041696
ADC
QT Input Channel

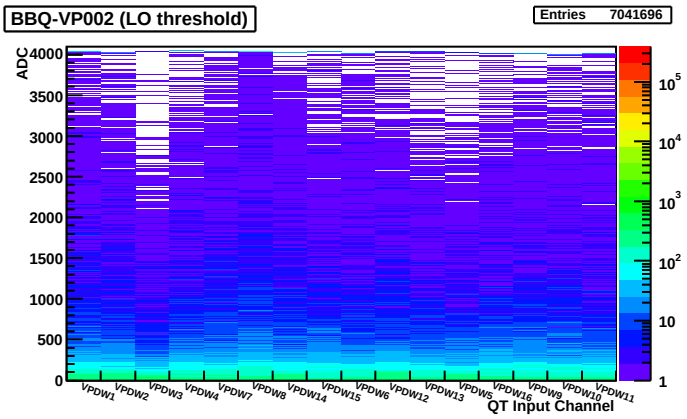

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7041696
TAC
QT Input Channel

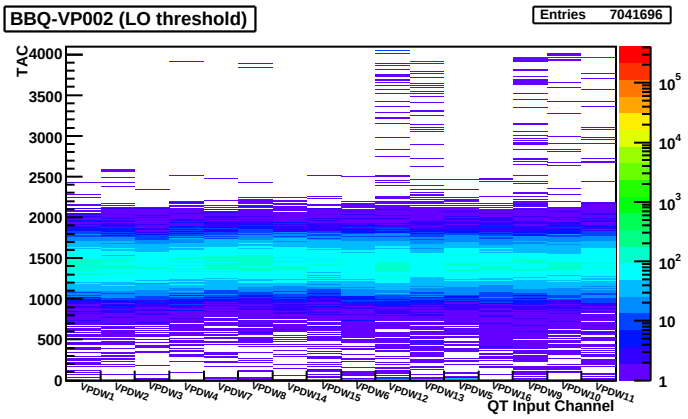

BBQ-ZD001 (ZDC TOWER)
Entries 7041696
ADC

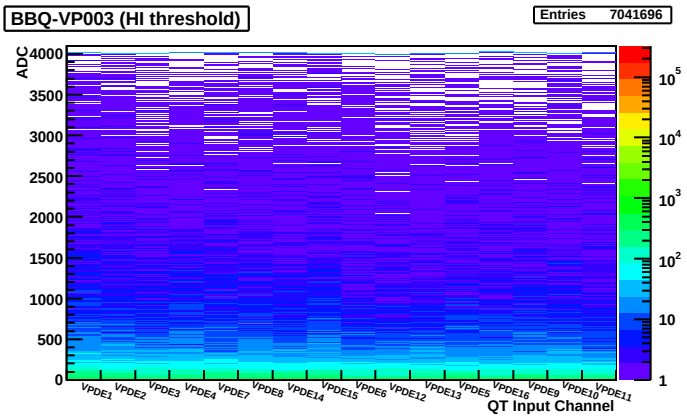

BBQ-ZD001 (ZDC TOWER)
Entries 7041696
TAC

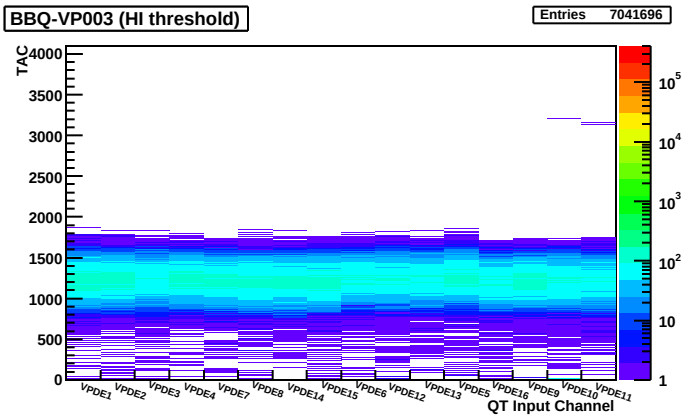

BBQ-VP001 (LO threshold)
Entries 7041696
ADC
QT Input Channel

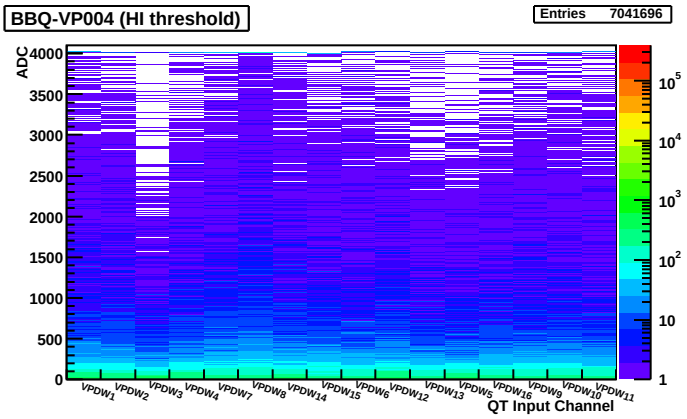

BBQ-VP001 (LO threshold)
Entries 7041696
TAC
QT Input Channel

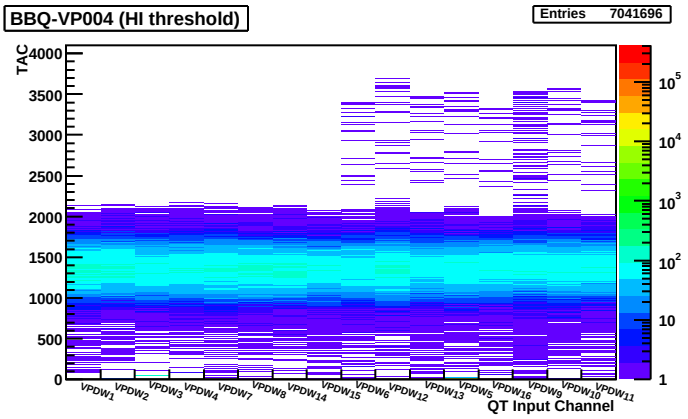

BBQ-VP002 (LO threshold)
Entries 7041696
ADC
QT Input Channel

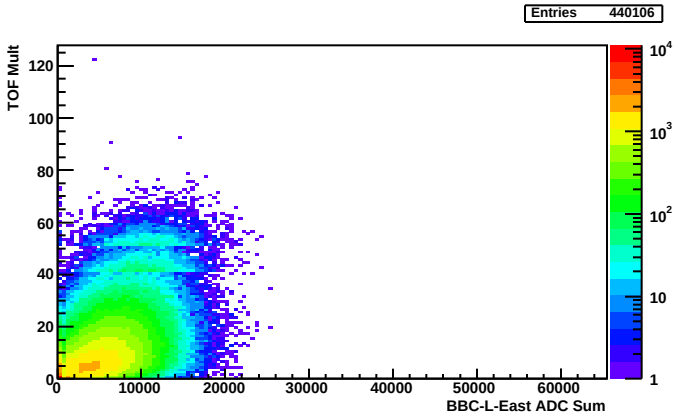

BBQ-VP002 (LO threshold)
Entries 7041696
TAC
QT Input Channel

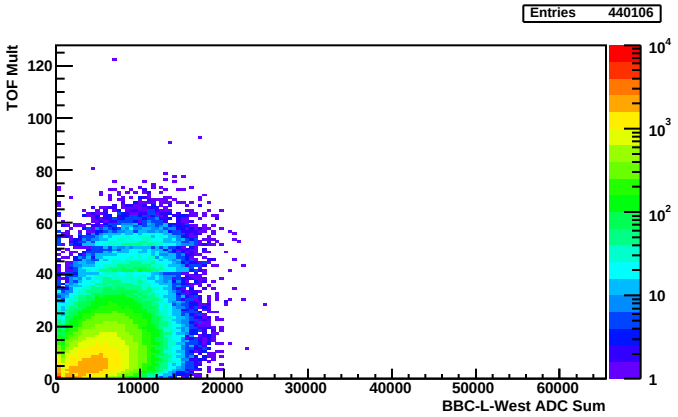

BBQ-VP003 (HI threshold)
Entries 7041696
ADC
QT Input Channel

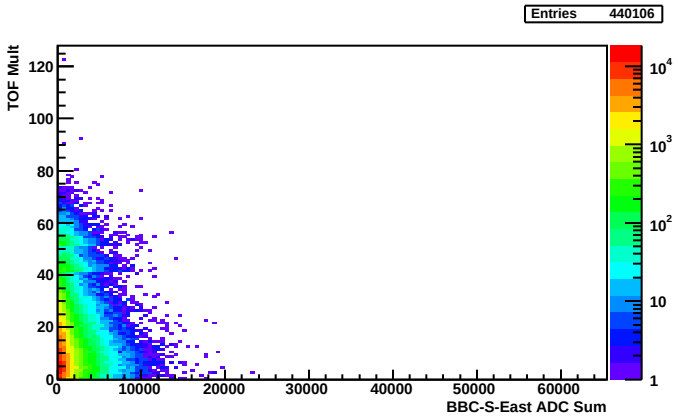

BBQ-VP003 (HI threshold)
Entries 7041696
TAC
QT Input Channel

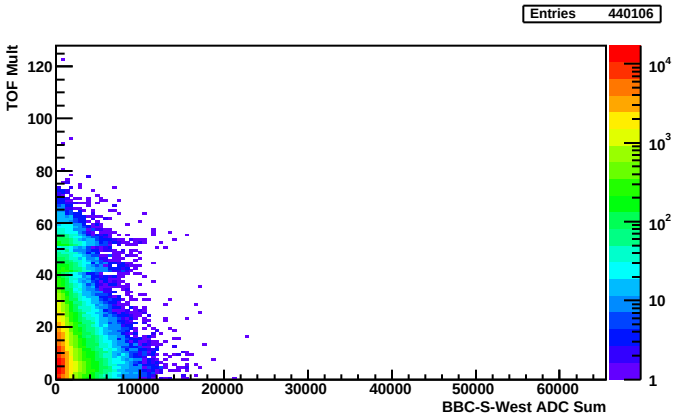

BBQ-VP004 (HI threshold)
Entries 7041696
ADC
QT Input Channel

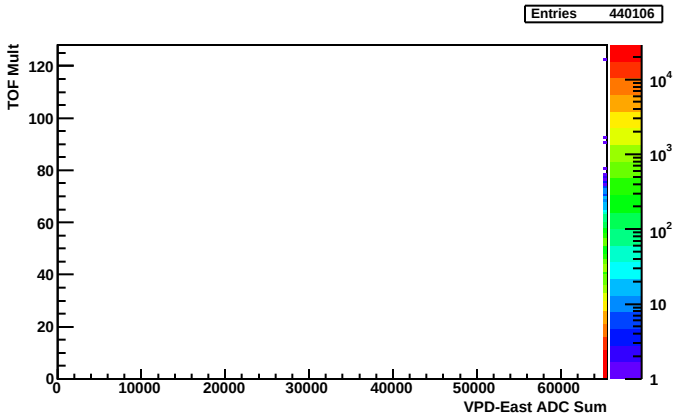

BBQ-VP004 (HI threshold)
Entries 7041696
TAC
QT Input Channel

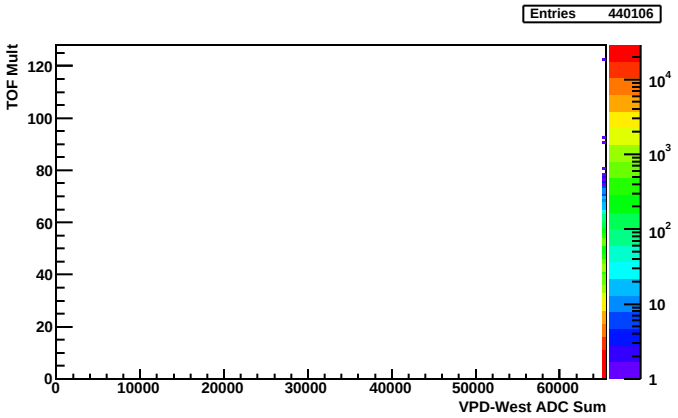

Entries 440106
TOF Mult
BBC-L-East ADC Sum

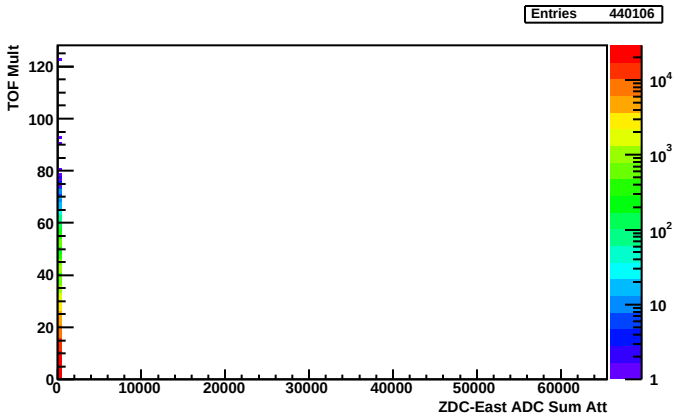

Entries 440106
TOF Mult
BBC-L-West ADC Sum

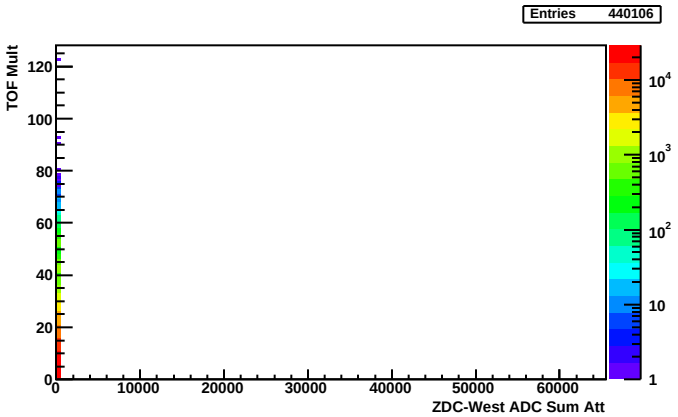

Entries 440106
TOF Mult
BBC-S-East ADC Sum

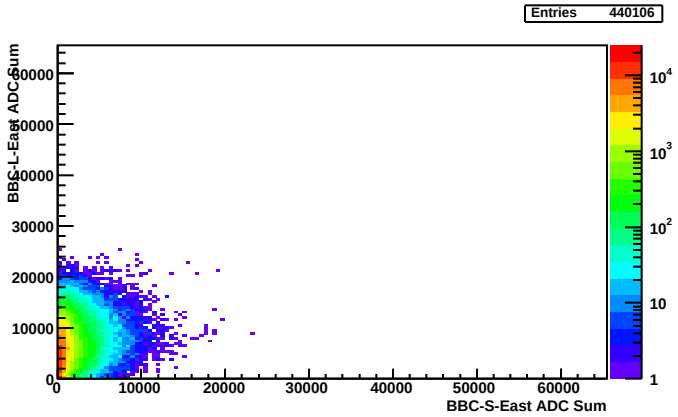

Entries 440106
TOF Mult
BBC-S-West ADC Sum

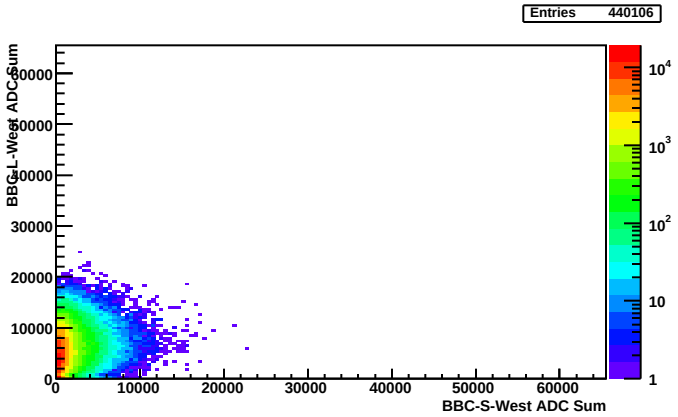

Entries 440106
TOF Mult
VPD-East ADC Sum

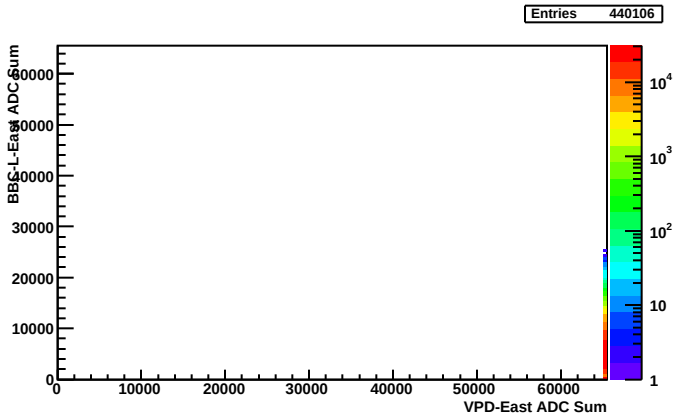

Entries 440106
TOF Mult
VPD-West ADC Sum

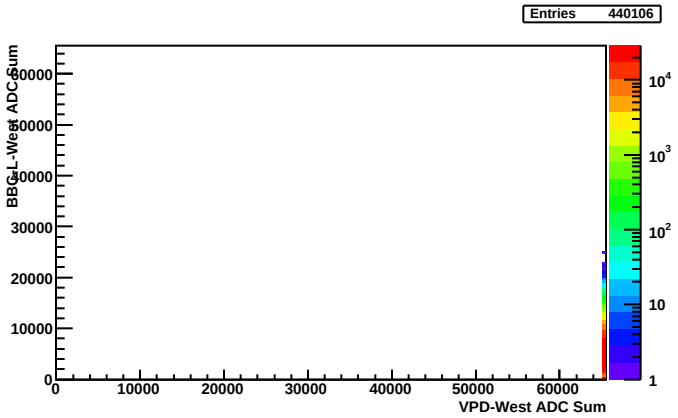

Entries 440106
TOF Mult
ZDC-East ADC Sum Att

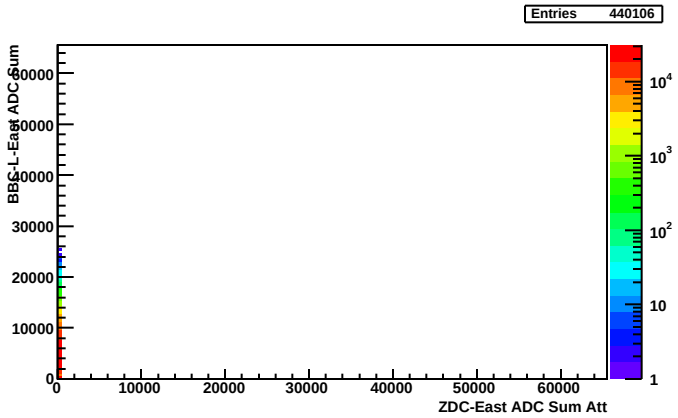

Entries 440106
TOF Mult
ZDC-West ADC Sum Att


Entries 440106
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 440106
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 440106
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 440106
BBC-L-West ADC Sum
VPD-West ADC Sum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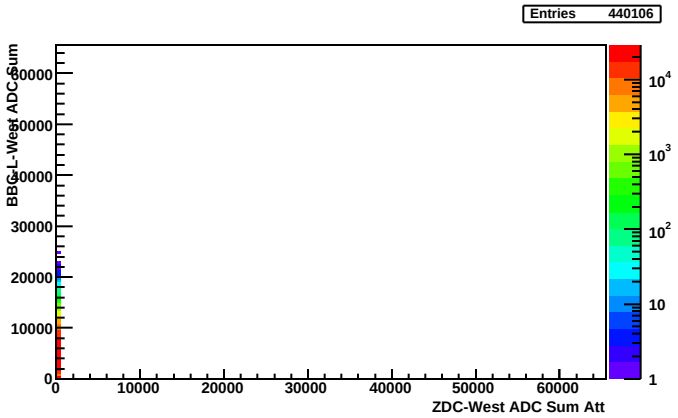
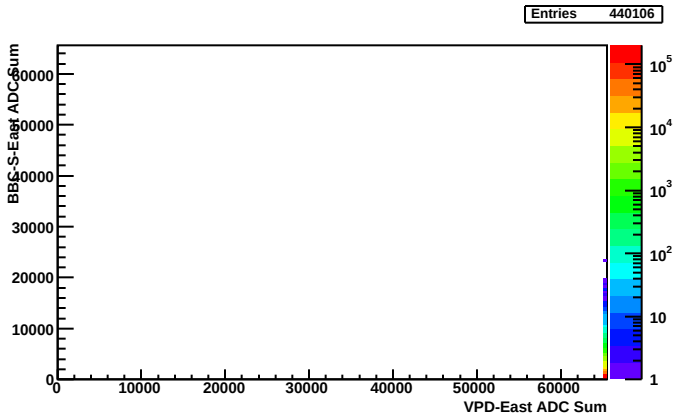
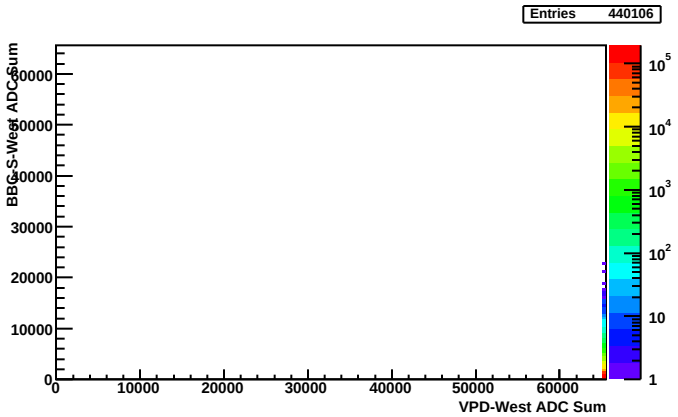
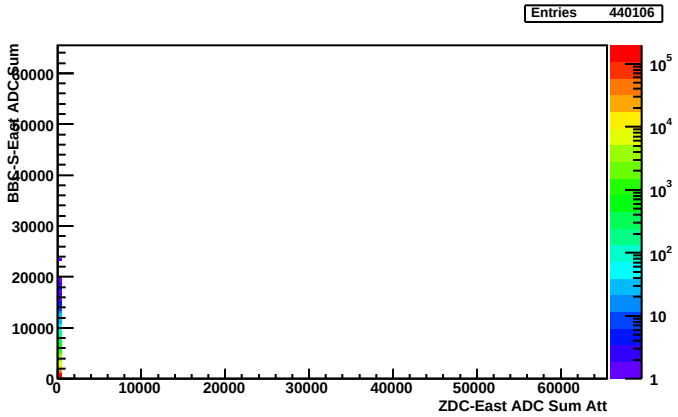
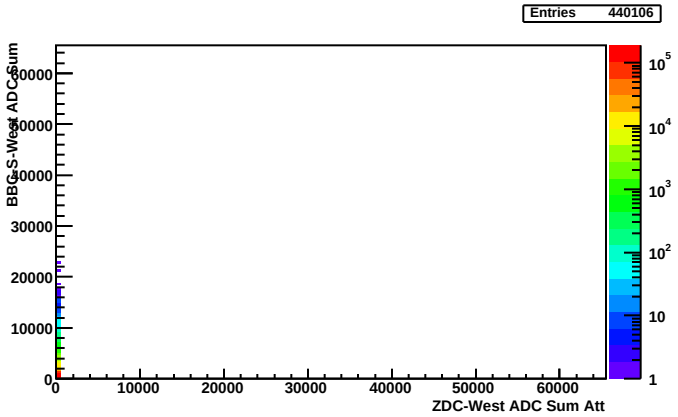
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

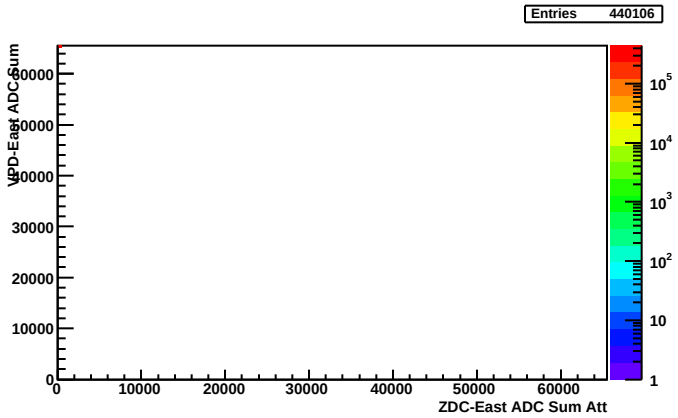

Entries 440106
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

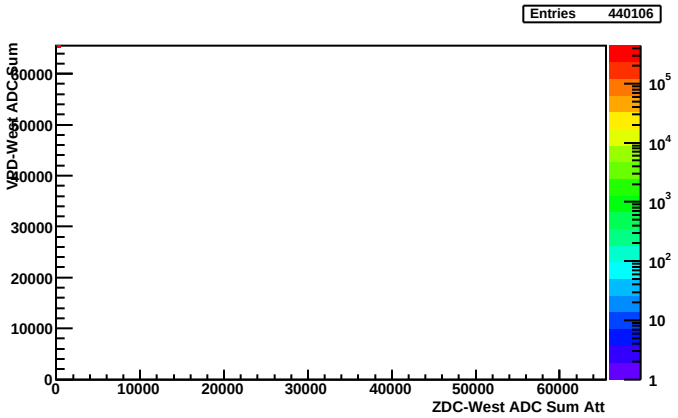

Entries 440106
BBC-S-East ADC Sum
VPD-East ADC Sum

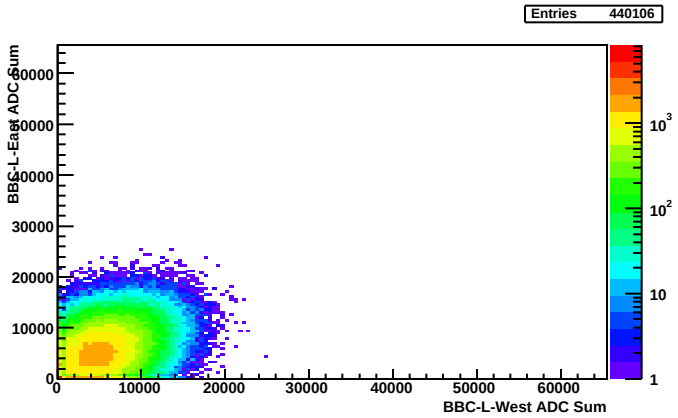

Entries 440106
BBC-S-West ADC Sum
VPD-West ADC Sum

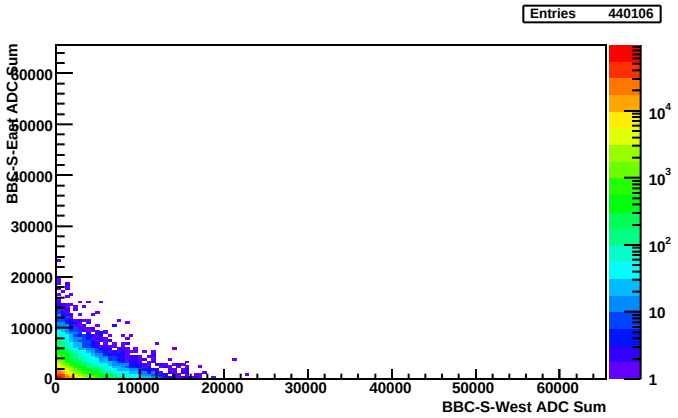

Entries 440106
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

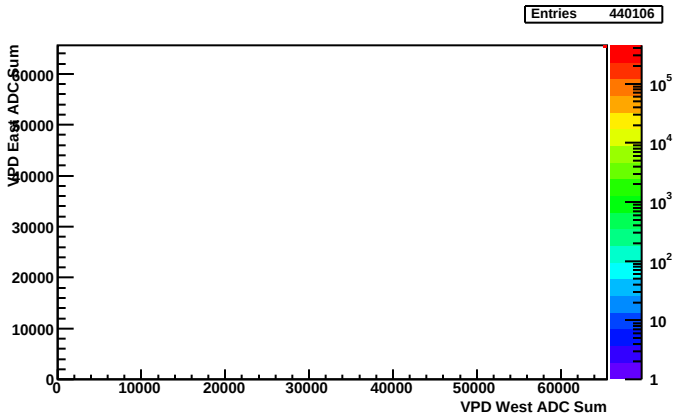

Entries 440106
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

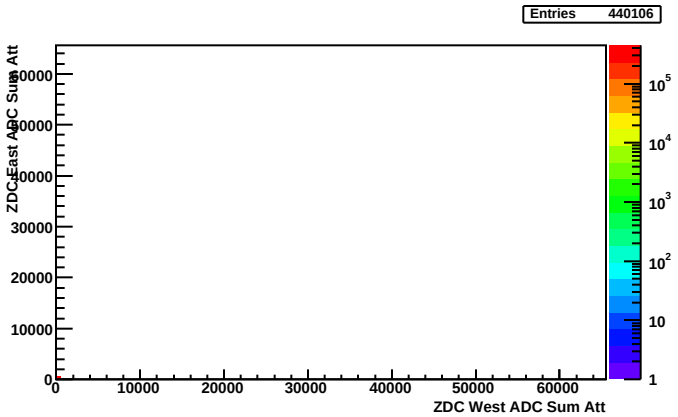

Entries 440106
VPD-East ADC Sum
ZDC-East ADC Sum Att

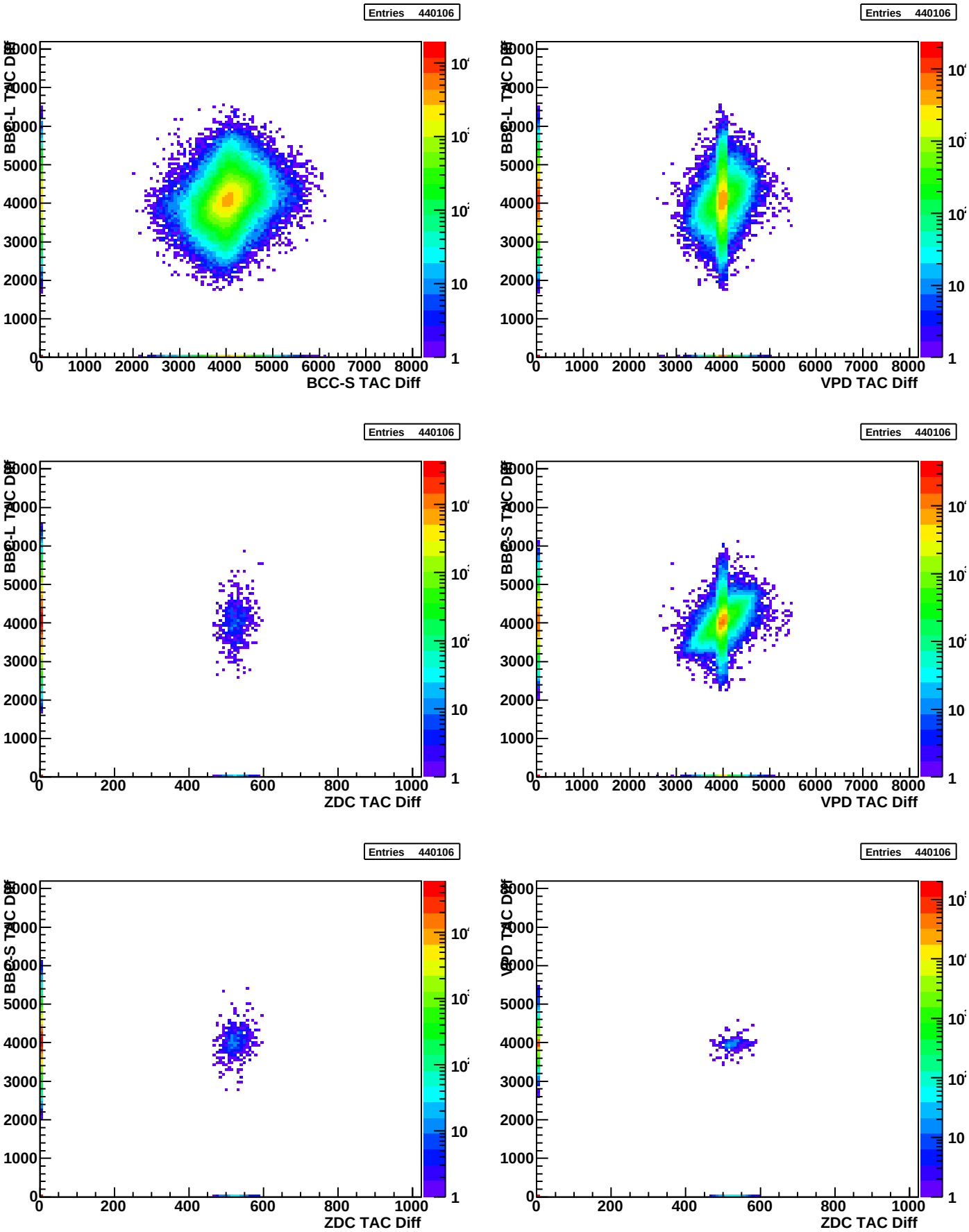

Entries 440106
VPD-West ADC Sum
ZDC-West ADC Sum Att

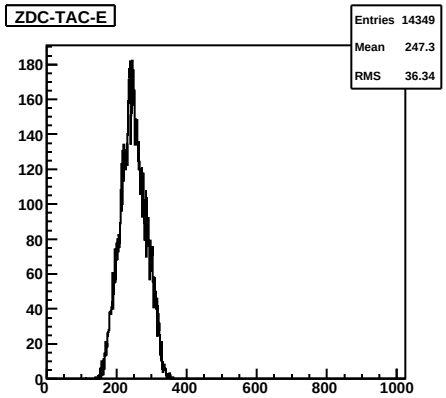

Entries 440106
BBC-L-East ADC Sum
BBC-L-West ADC Sum

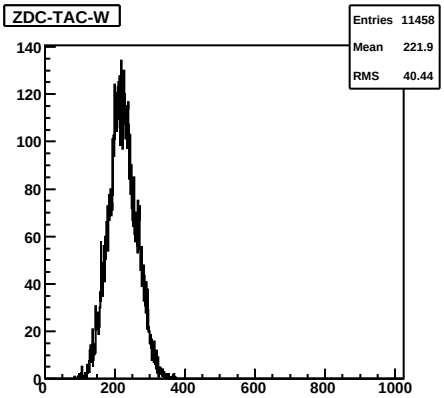

Entries 440106
BBC-S-East ADC Sum
BBC-S-West ADC Sum

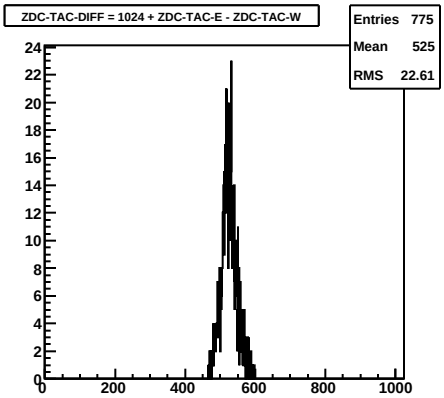

Entries 440106
VPD East ADC Sum
VPD West ADC Sum

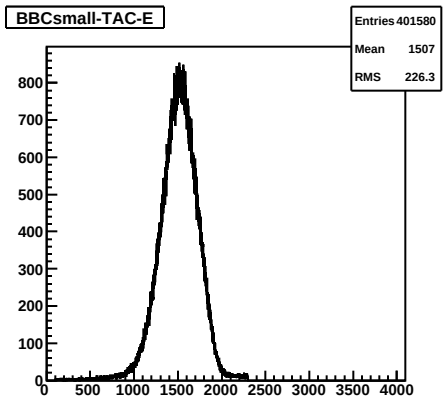

Entries 440106
ZDC East ADC Sum Att
ZDC West ADC Sum Att

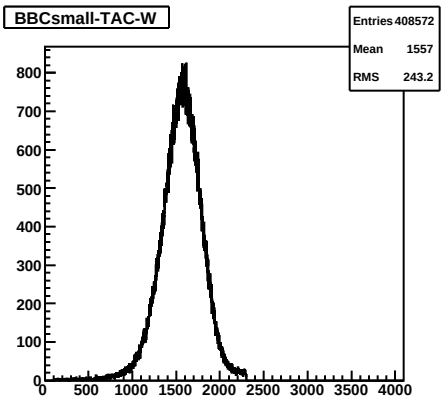

Entries 440106
BBC-L TAC Diff
BCC-S TAC Diff
Entries 440106
BBC-L TAC Diff
VPD TAC Diff
Entries 440106
BBC-L TAC Diff
ZDC TAC Diff
Entries 440106
BBC-S TAC Diff
VPD TAC Diff
Entries 440106
BBC-S TAC Diff
ZDC TAC Diff
Entries 440106
VPD TAC Diff
ZDC TAC Diff

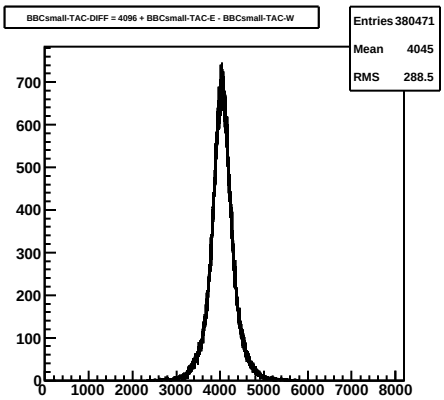

ZDC-TAC-E
Entries 14349
Mean 247.3
RMS 36.34

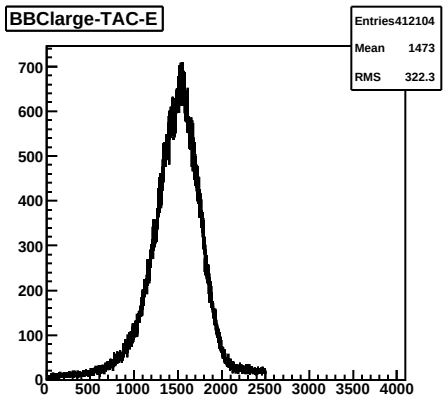

ZDC-TAC-W
Entries 11458
Mean 221.9
RMS 40.44

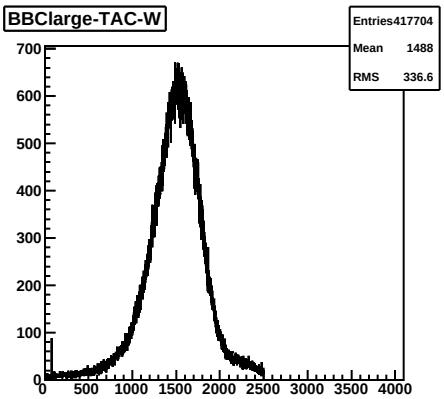

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 775
Mean 525
RMS 22.61

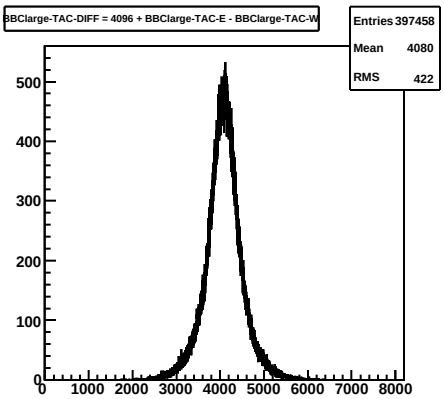

BBCsmall-TAC-E
Entries 401580
Mean 1507
RMS 226.3

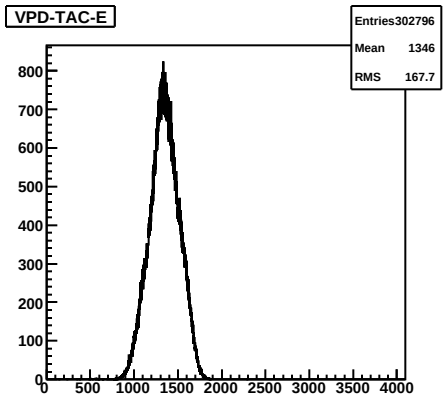

BBCsmall-TAC-W
Entries 408572
Mean 1557
RMS 243.2

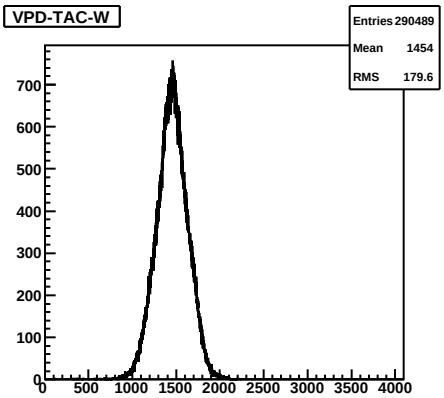

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 380471
Mean 4045
RMS 288.5

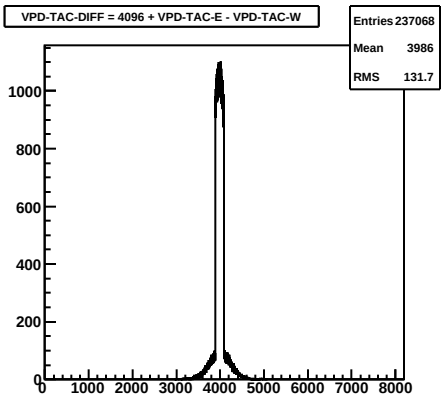

BBClarge-TAC-E
Entries 412104
Mean 1473
RMS 322.3

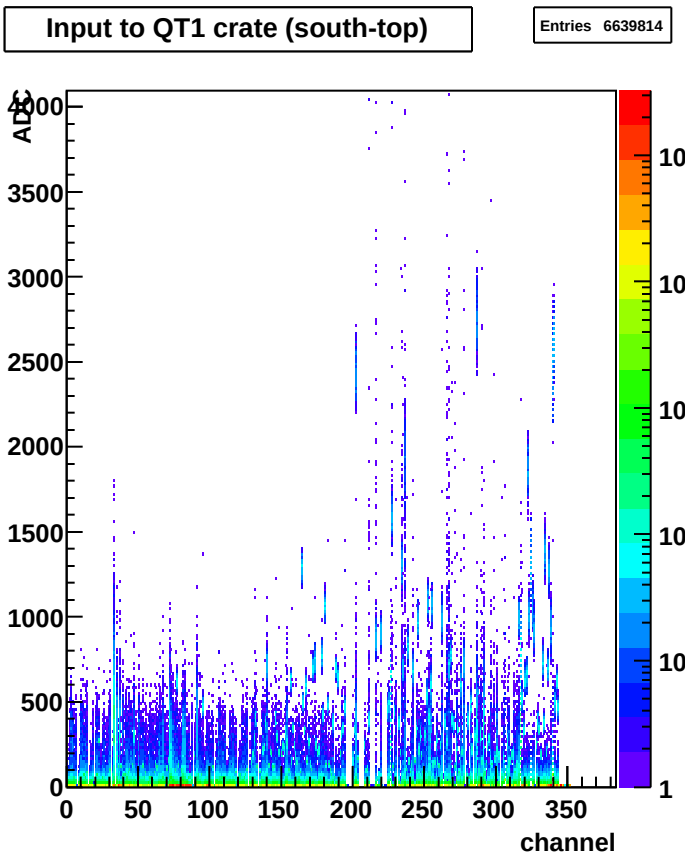

BBClarge-TAC-W
Entries 417704
Mean 1488
RMS 336.6

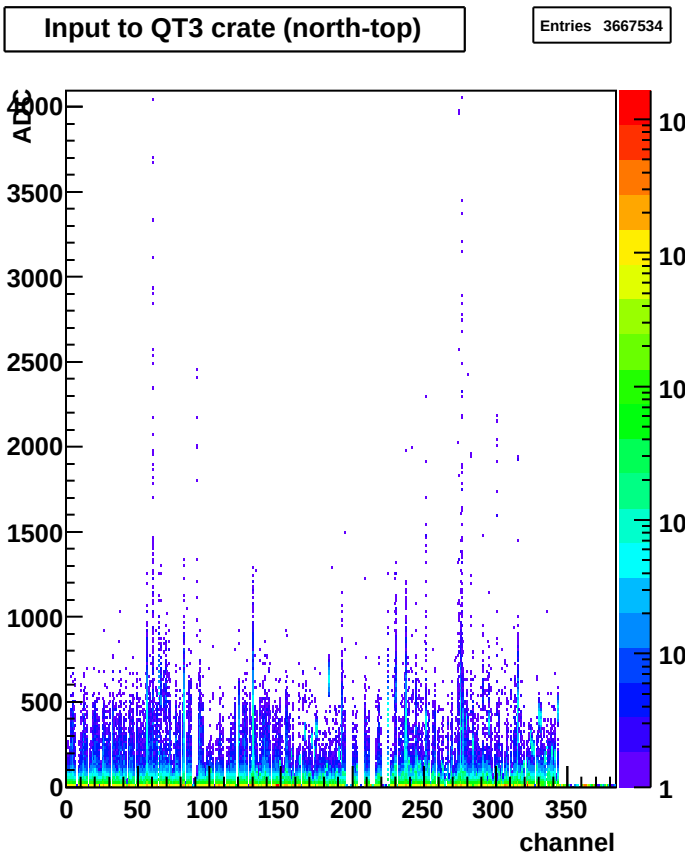

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 397458
Mean 4080
RMS 422

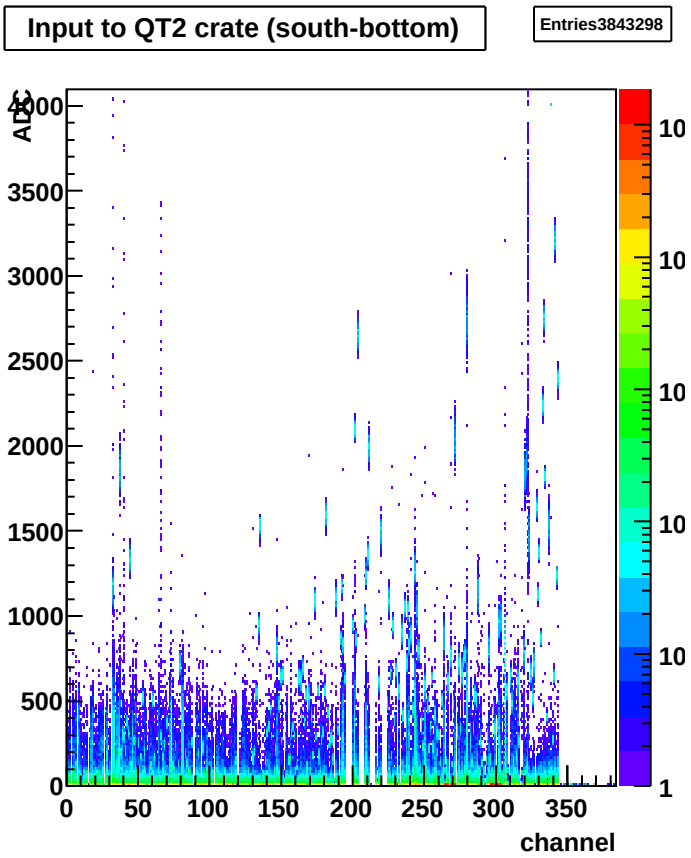

VPD-TAC-E
Entries 302796
Mean 1346
RMS 167.7

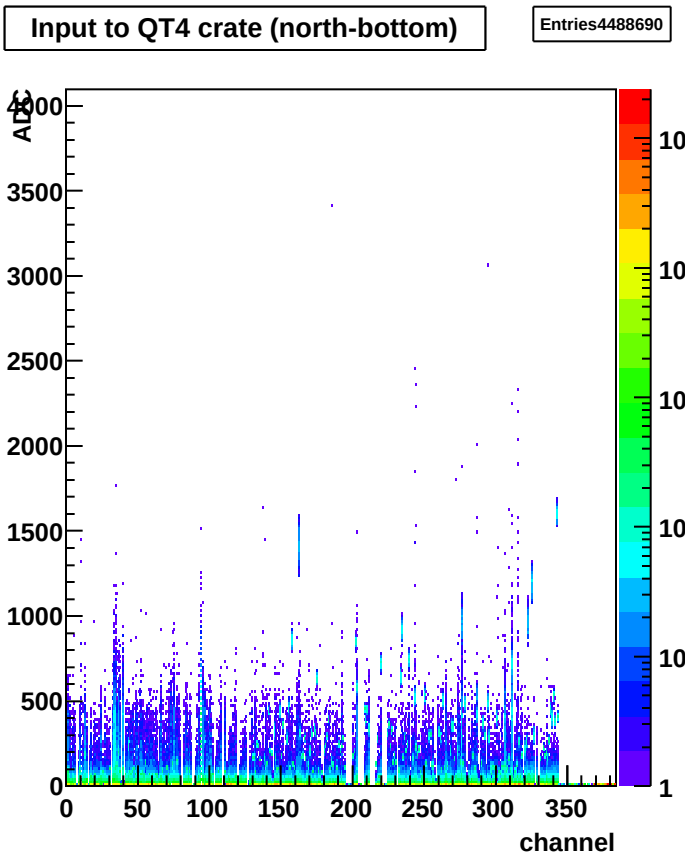

VPD-TAC-W
Entries 290489
Mean 1454
RMS 179.6

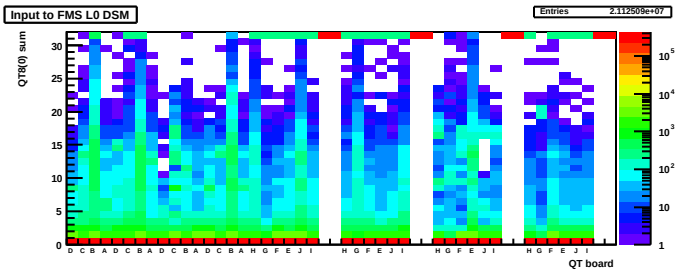

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 237068
Mean 3986
RMS 131.7

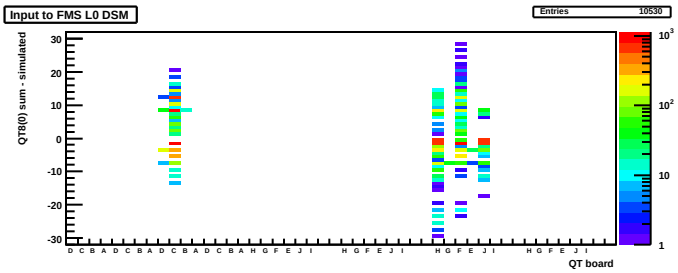

Input to QT1 crate (south-top)
Entries 6639814
ADC
channel

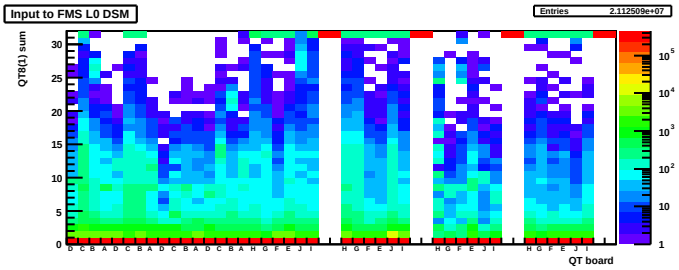

Input to QT3 crate (north-top)
Entries 3667534
ADC
channel

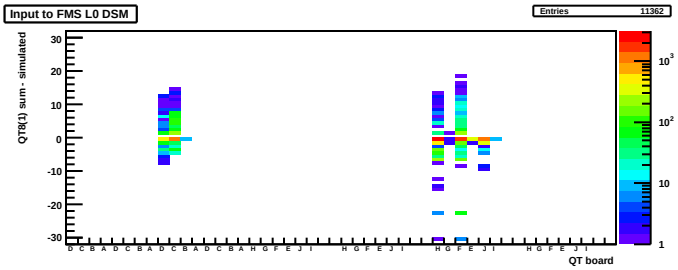

Input to QT2 crate (south-bottom)
Entries3843298
ADC
channel

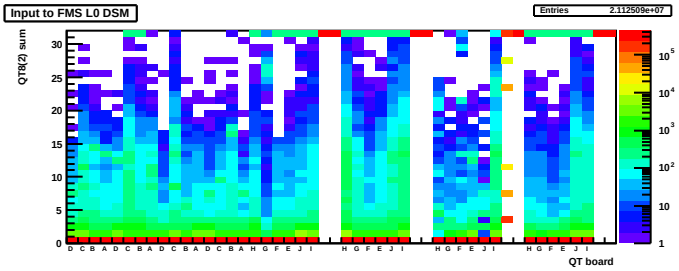

Input to QT4 crate (north-bottom)
Entries4488690
ADC
channel

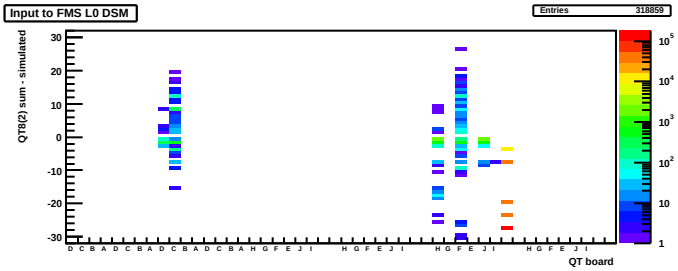

Input to FMS L0 DSM
Entries 2.112509e+07
QT8(0) sum
QT board

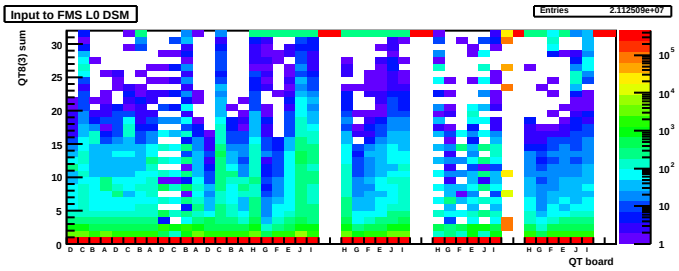

Input to FMS L0 DSM
Entries 10530
QT8(0) sum - simulated
QT board

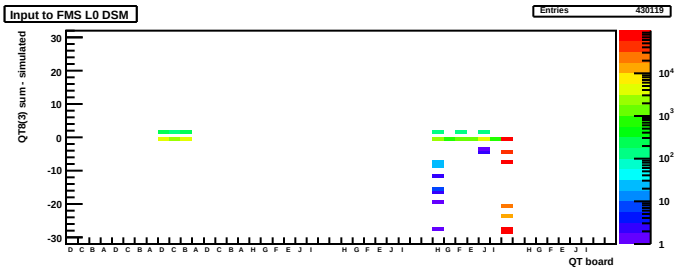

Input to FMS L0 DSM
Entries 2.112509e+07
QT8(1) sum
QT board

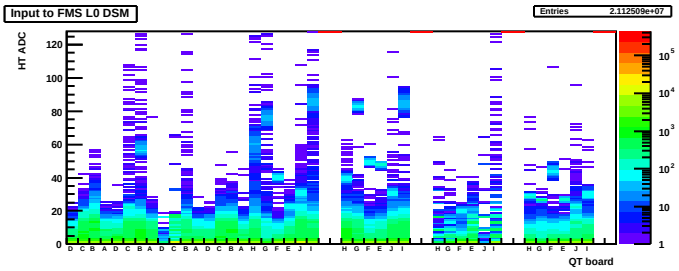

Input to FMS L0 DSM
Entries 11362
QT8(1) sum - simulated
QT board

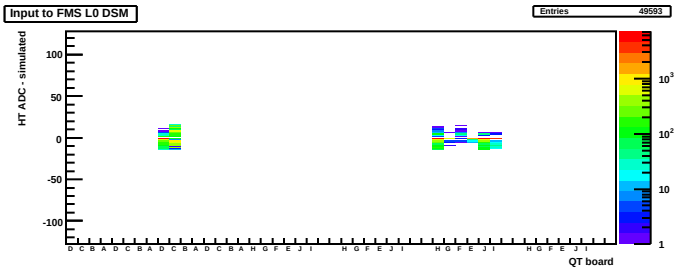

Input to FMS L0 DSM
Entries 2.112509e+07
QT8(2) sum
QT board

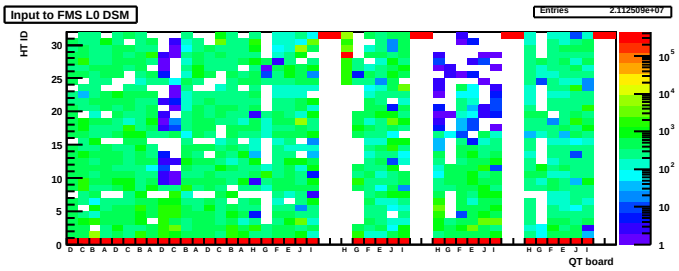

Input to FMS L0 DSM
Entries 318859
QT8(2) sum - simulated
QT board

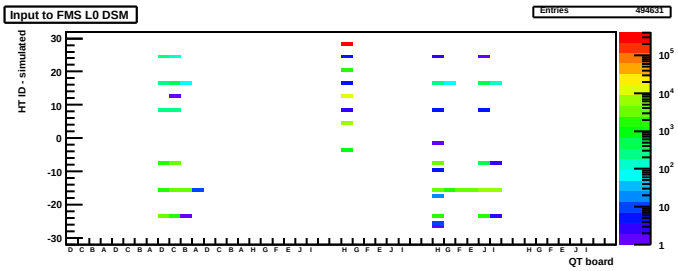

Input to FMS L0 DSM
Entries 2.112509e+07
QT8(3) sum
QT board

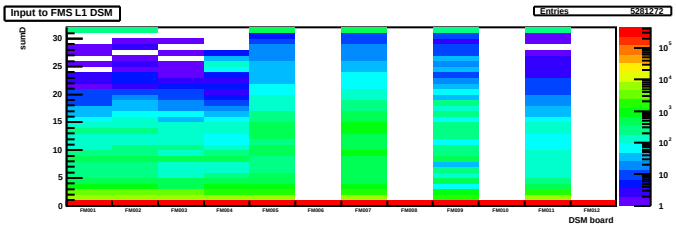

Input to FMS L0 DSM
Entries 430119
QT8(3) sum - simulated
QT board

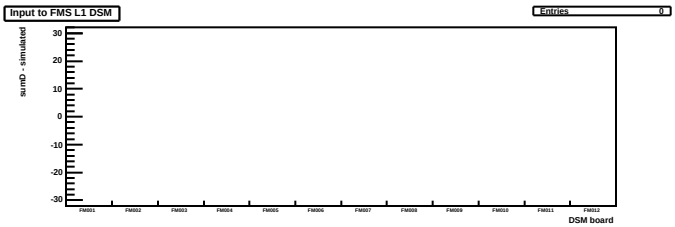

Input to FMS L0 DSM
Entries 2.112509e+07
HT ADC
QT board

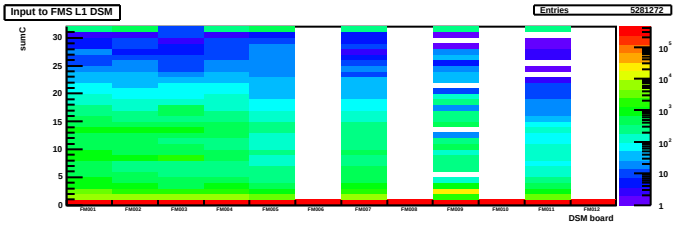

Input to FMS L0 DSM
Entries 49593
HT ADC - simulated
QT board

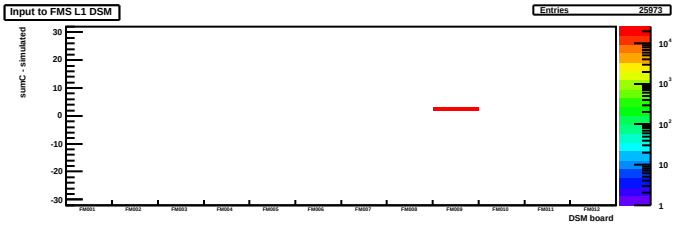

Input to FMS L0 DSM
Entries 2.112509e+07
HT ID
QT board

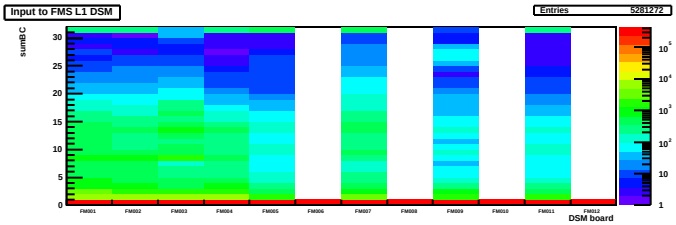

Input to FMS L0 DSM
Entries 494631
HT ID - simulated
QT board

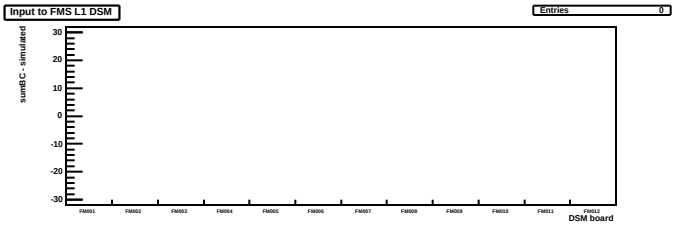

Input to FMS L1 DSM
Entries 5281272
sumD
DSM board

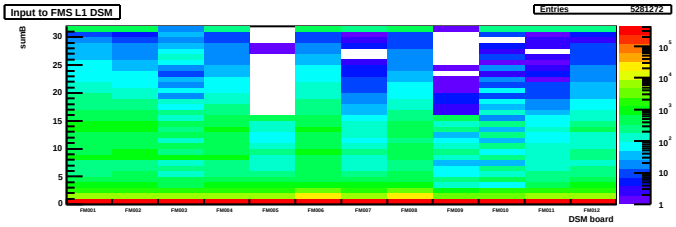

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

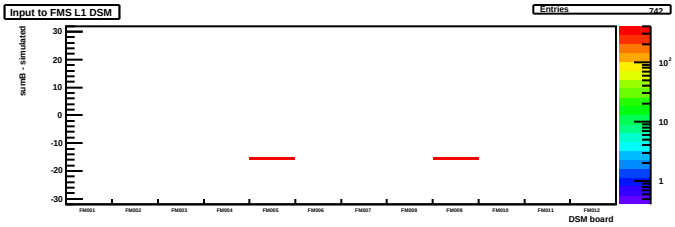

Input to FMS L1 DSM
Entries 5281272
sumC
DSM board

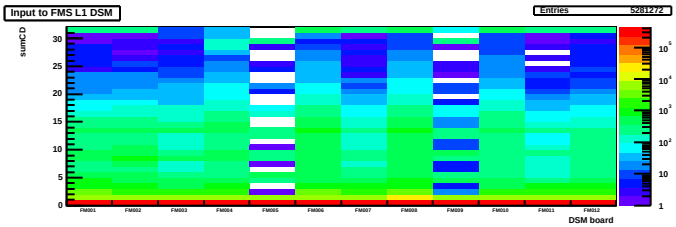

Input to FMS L1 DSM
Entries 25973
sumC - simulated
DSM board

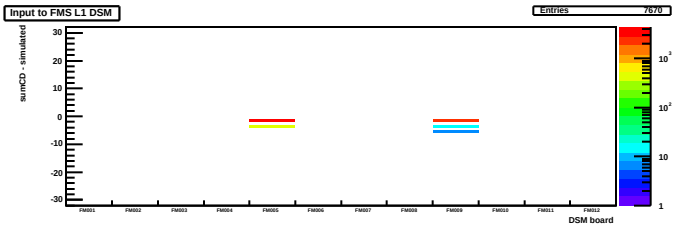

Input to FMS L1 DSM
Entries 5281272
sumBC
DSM board

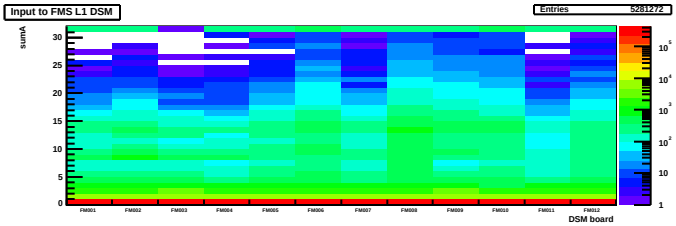

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

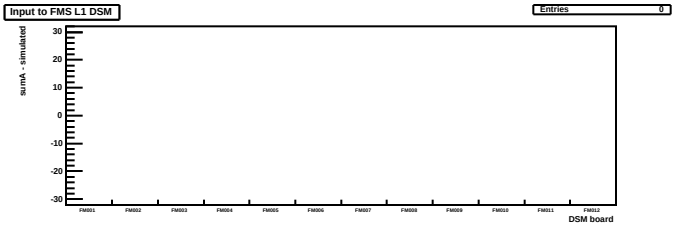

Input to FMS L1 DSM
Entries 5281272
sumB
DSM board

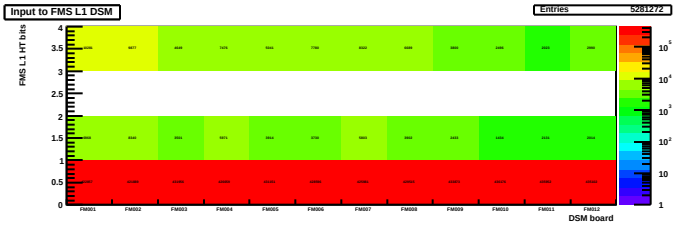

Input to FMS L1 DSM
Entries 742
sumB - simulated
DSM board

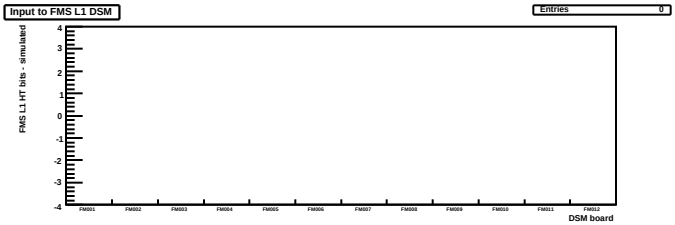

Input to FMS L1 DSM
Entries 5281272
sumCD
DSM board

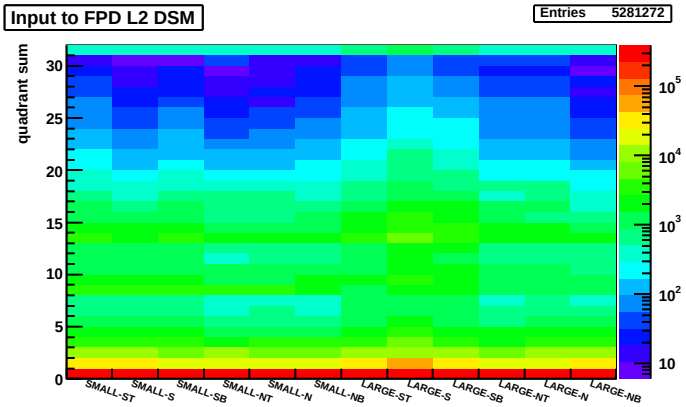

Input to FMS L1 DSM
Entries 7670
sumCD - simulated
DSM board

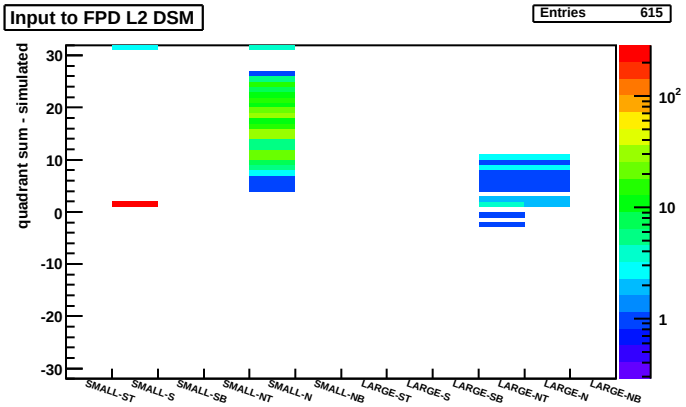

Input to FMS L1 DSM
Entries 5281272
sumA
DSM board

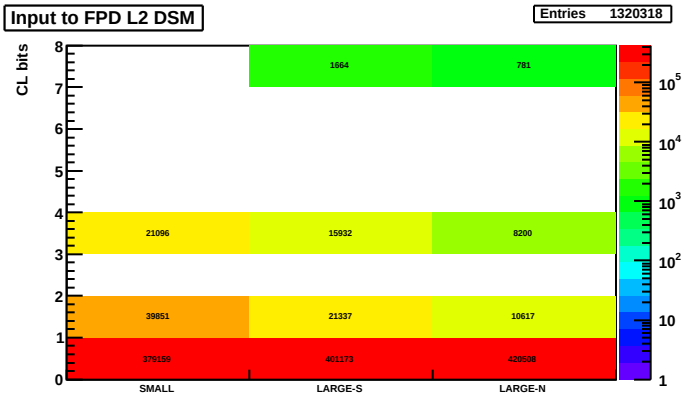

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

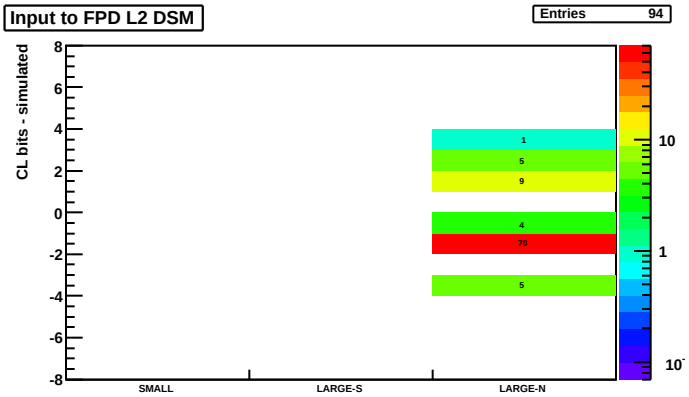

Input to FMS L1 DSM
Entries 5281272
FMS L1 HT bits
DSM board

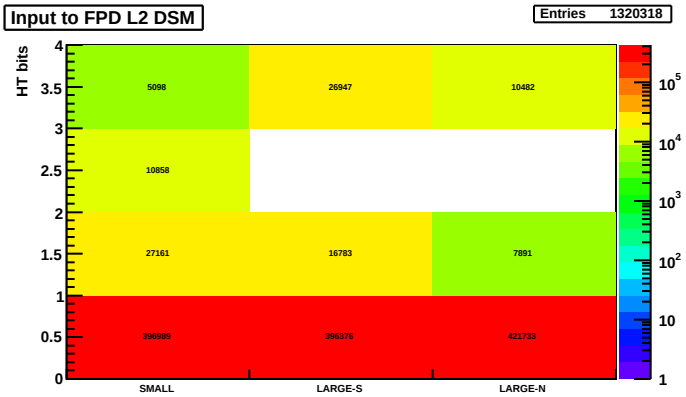

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

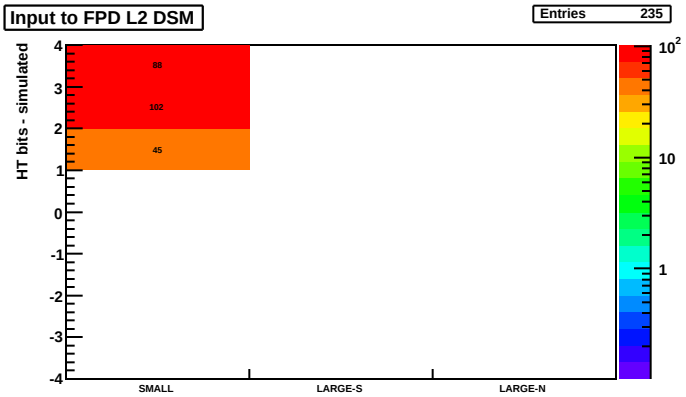

Input to FPD L2 DSM
Entries 5281272
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

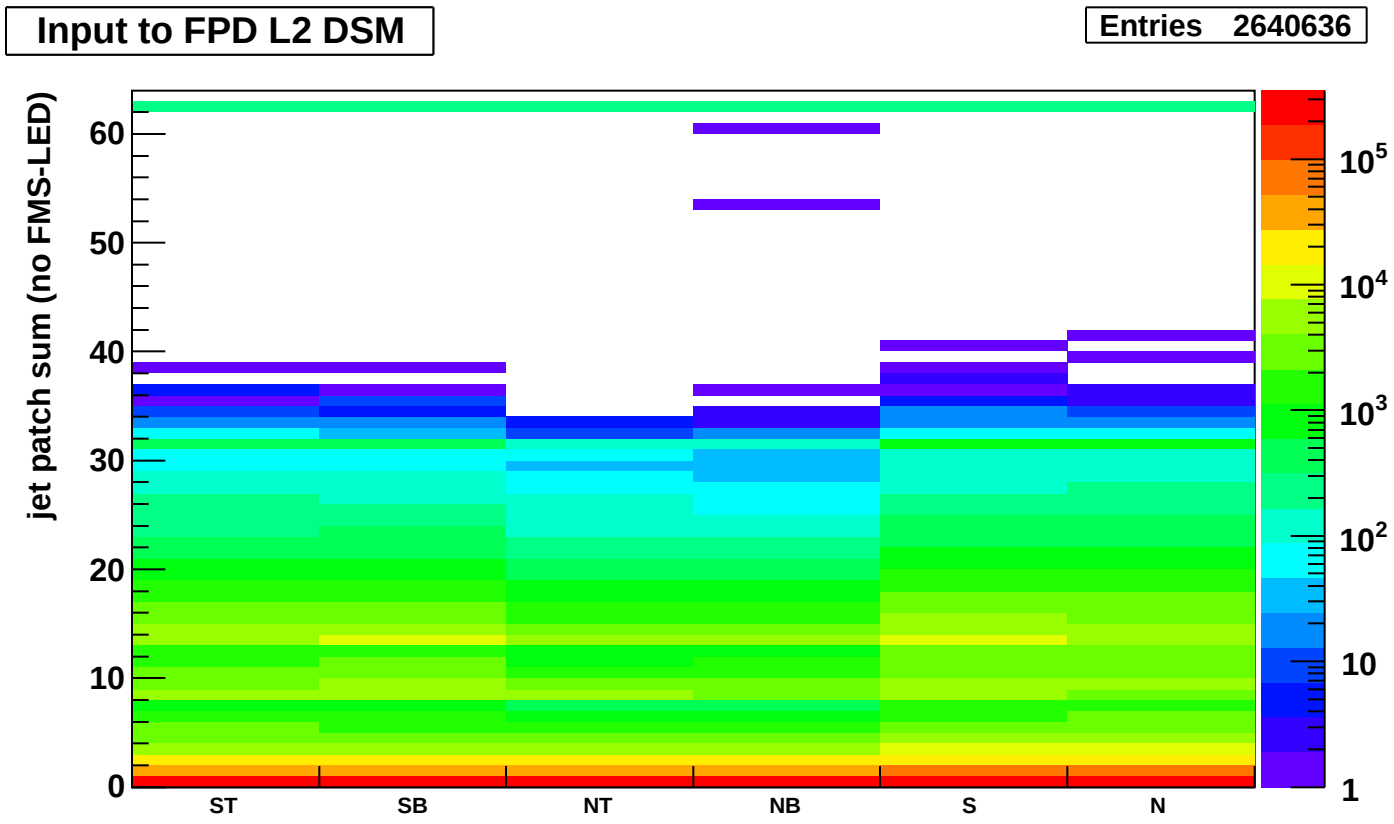

Input to FPD L2 DSM
Entries 615
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

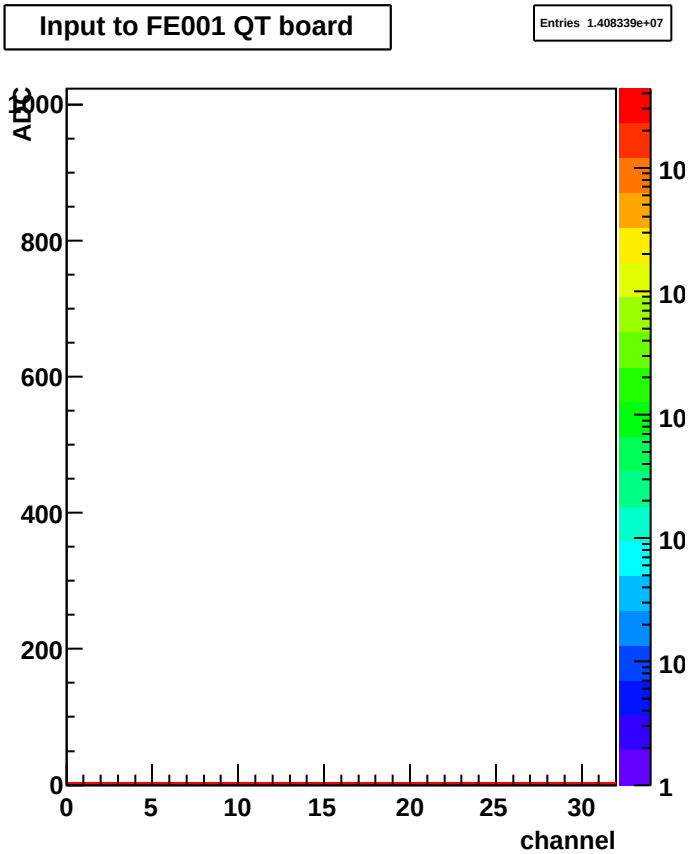

Input to FPD L2 DSM
Entries 1320318
CL bits
1664
781
21096
15932
8200
39851
21337
10617
379159
401173
420508
SMALL
LARGE-S
LARGE-N

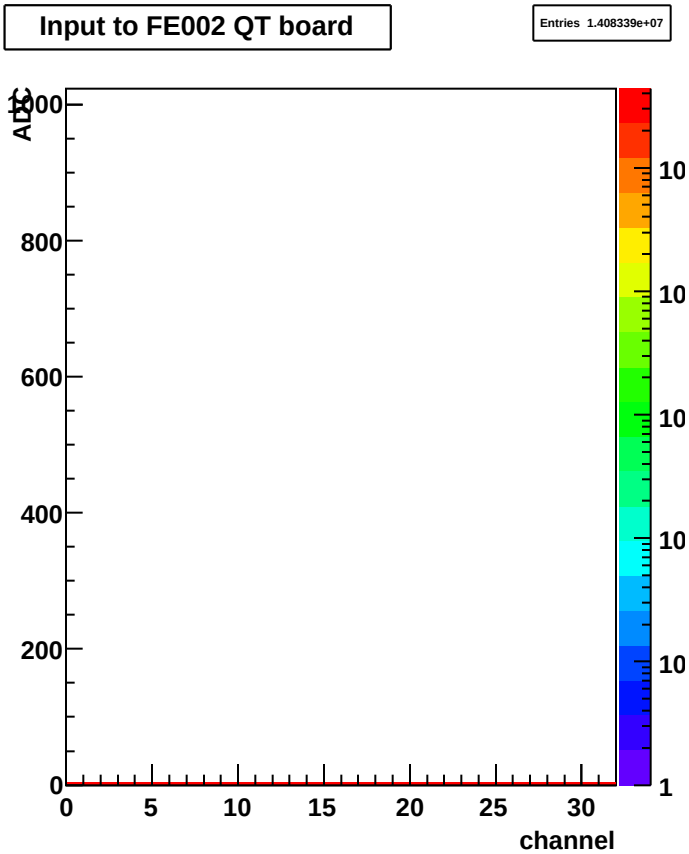

Input to FPD L2 DSM
Entries 94
CL bits - simulated
1
5
9
4
70
5
SMALL
LARGE-S
LARGE-N

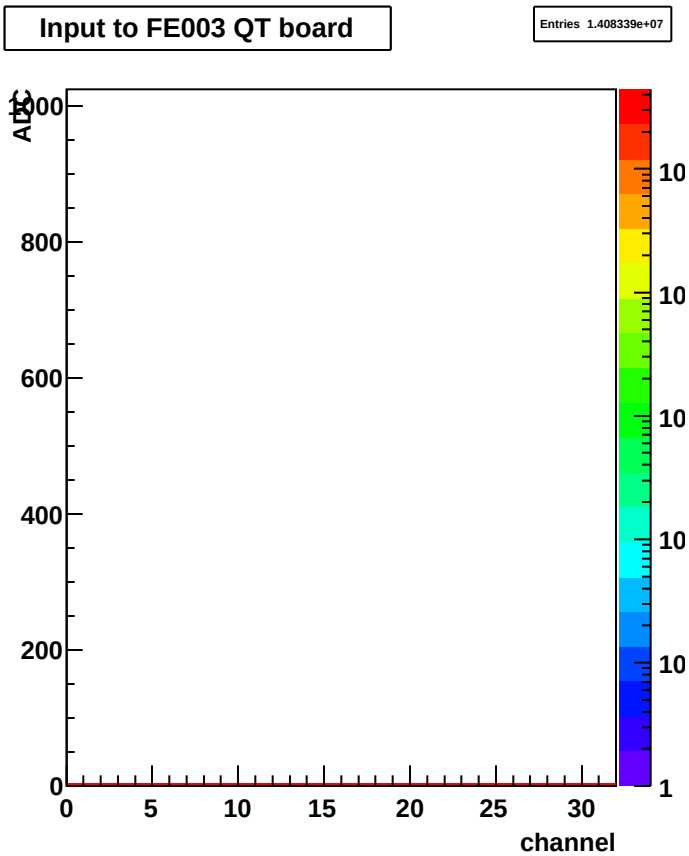

Input to FPD L2 DSM
Entries 1320318
HT bits
5098
26947
10482
10858
27161
16783
7891
396989
396376
421733
SMALL
LARGE-S
LARGE-N

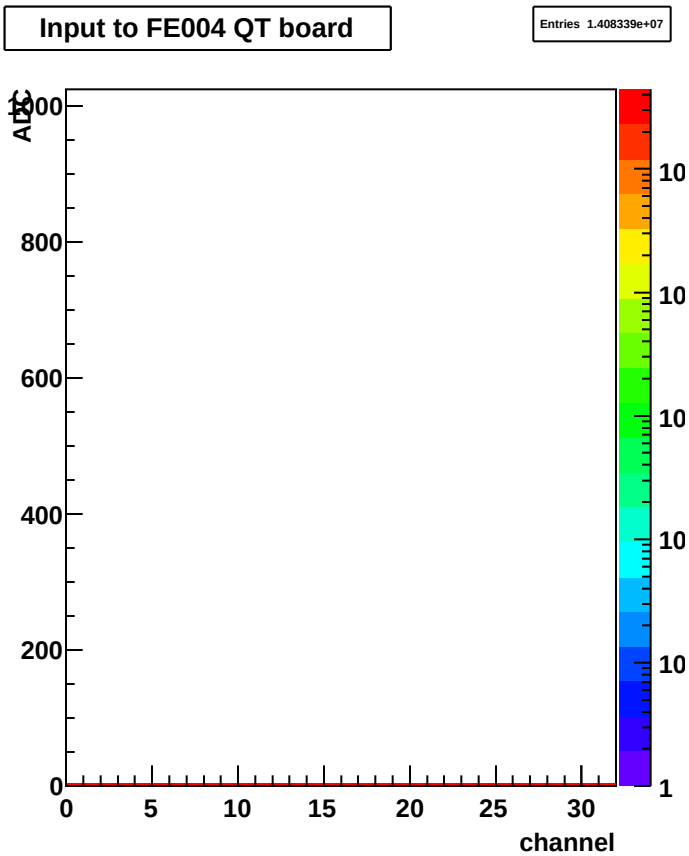

Input to FPD L2 DSM
Entries 235
HT bits - simulated
88
102
45
SMALL
LARGE-S
LARGE-N

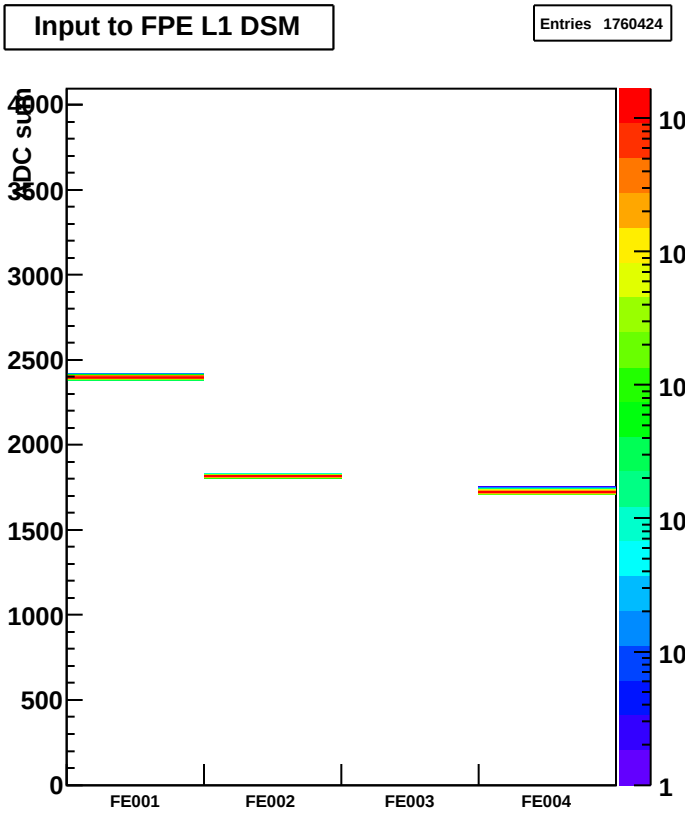

Input to FPD L2 DSM
Entries 2640636
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

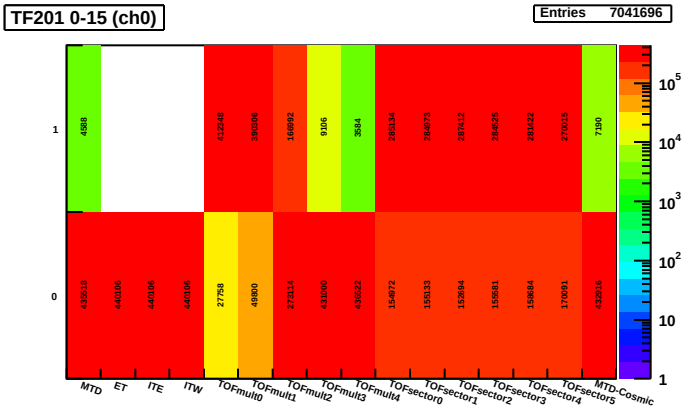

Input to FE001 QT board
Entries 1.408339e+07
ADC
channel

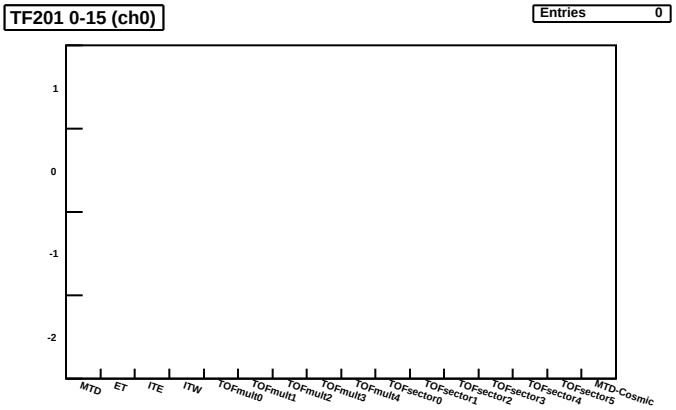

Input to FE002 QT board
Entries 1.408339e+07
ADC
channel

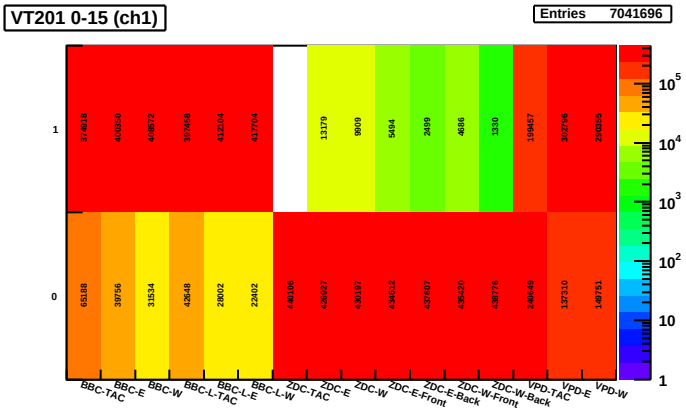

Input to FE003 QT board
Entries 1.408339e+07
ADC
channel

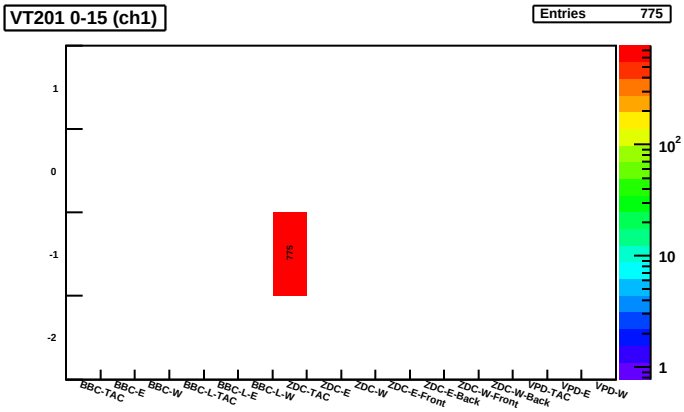

Input to FE004 QT board
Entries 1.408339e+07
ADC
channel

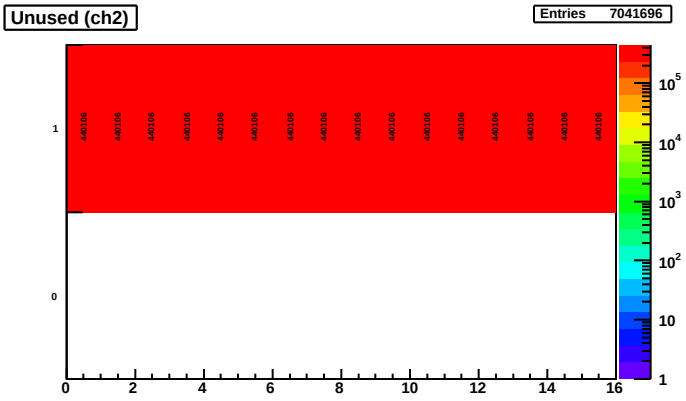

Input to FPE L1 DSM
Entries 1760424
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 7041696
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 7041696
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 775
775
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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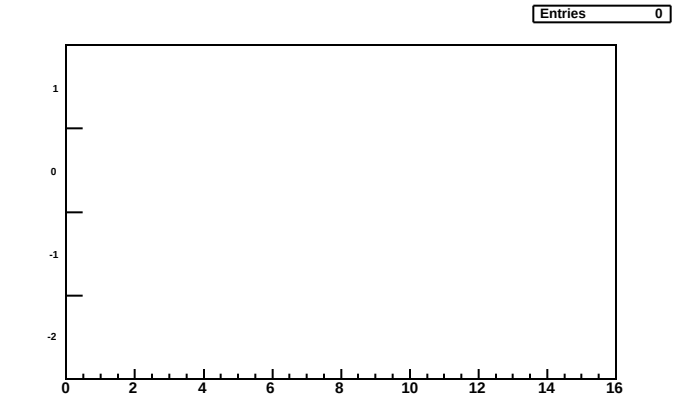
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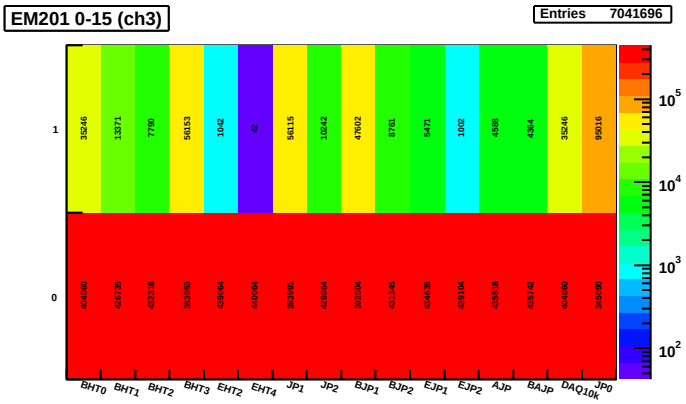
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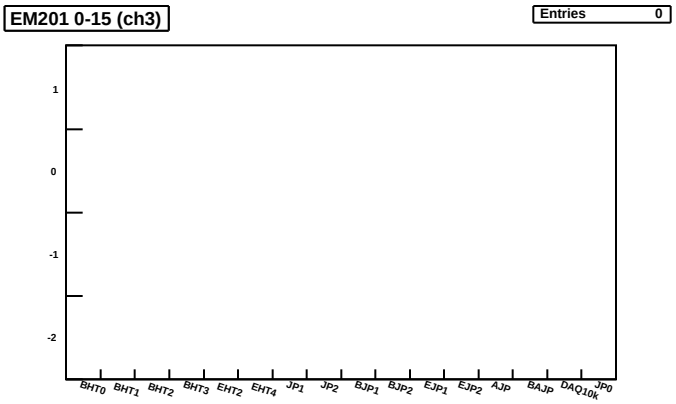
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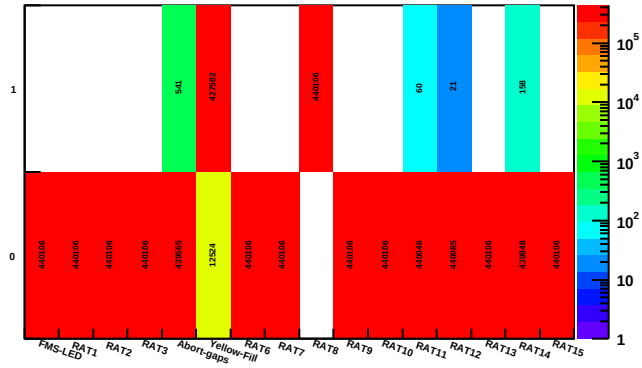
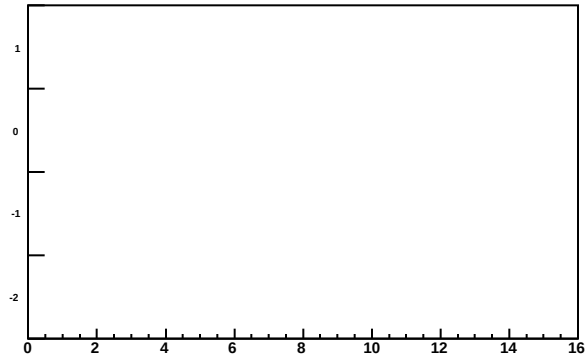
RAT board (ch4)





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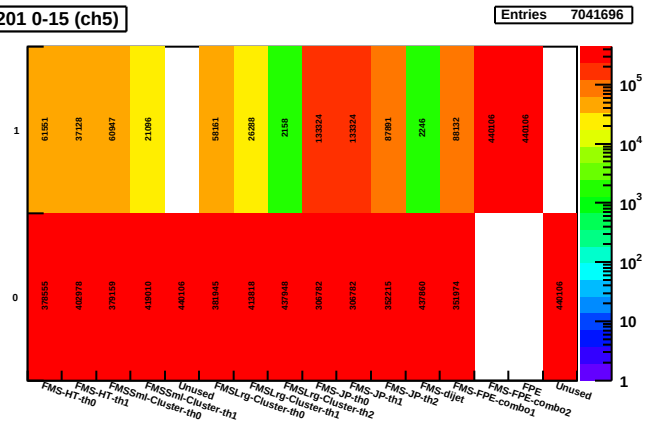

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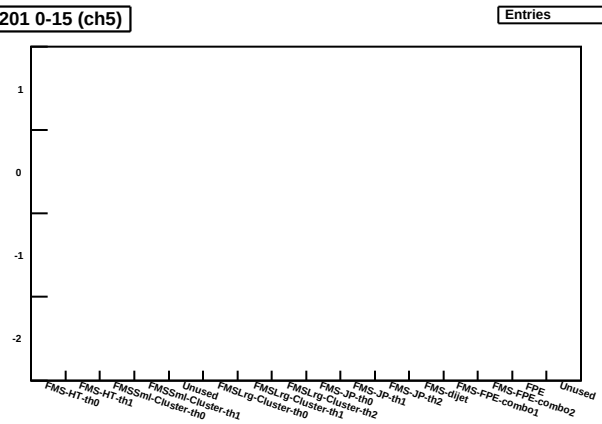

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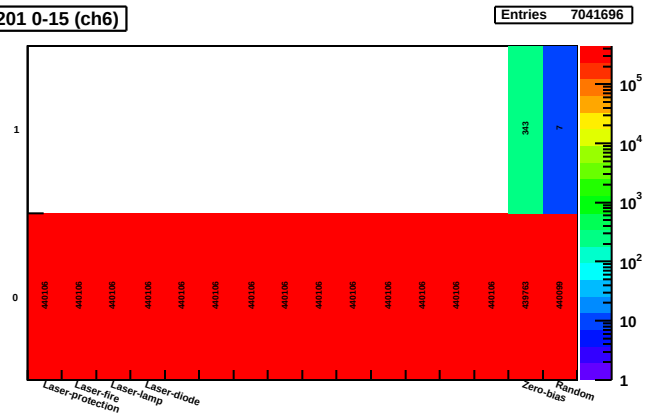

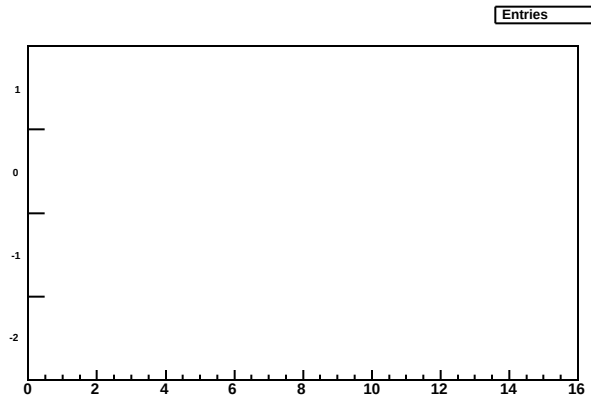
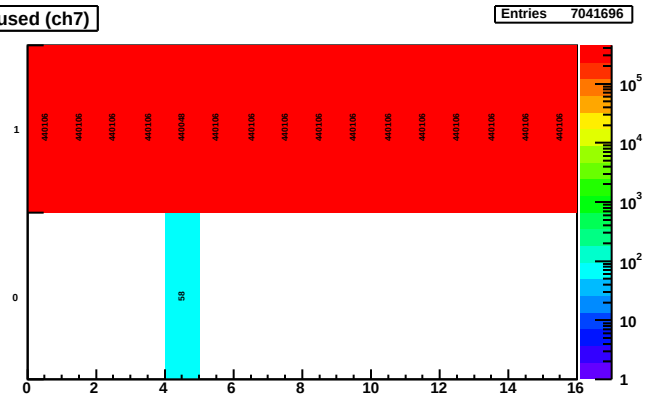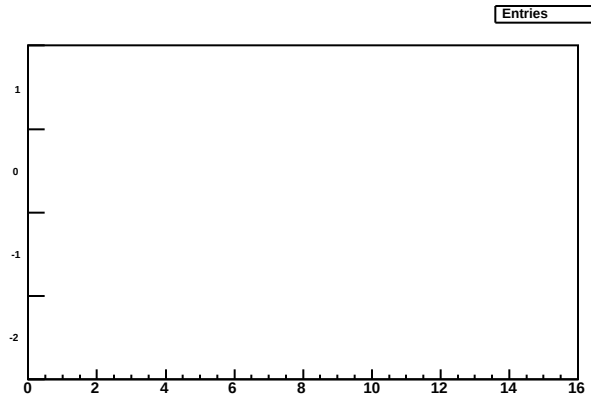
Unused (ch7)