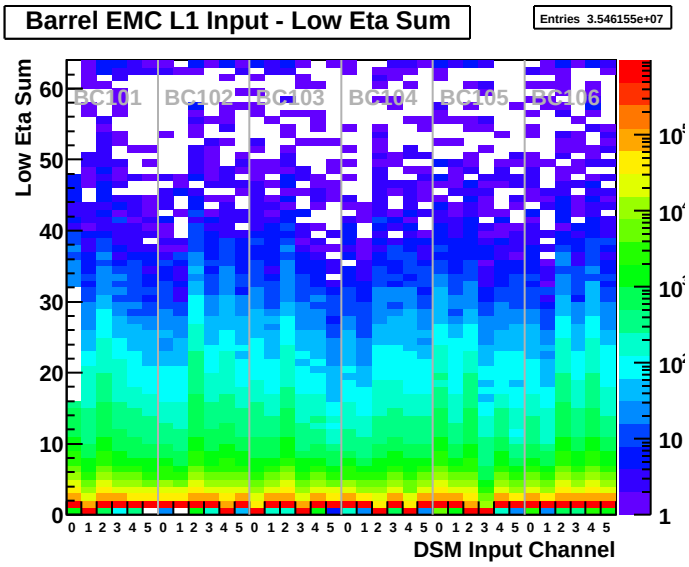
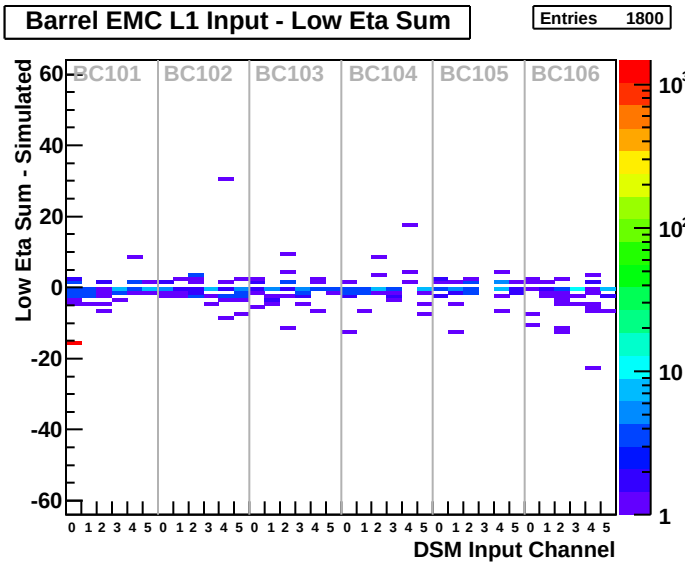
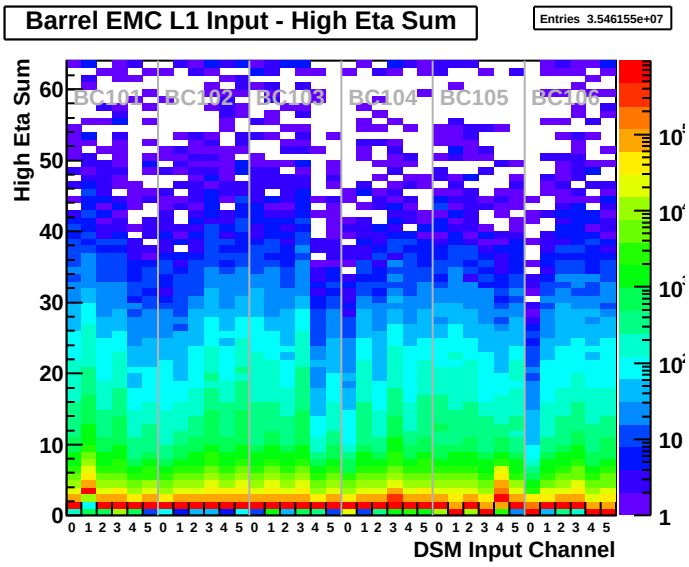
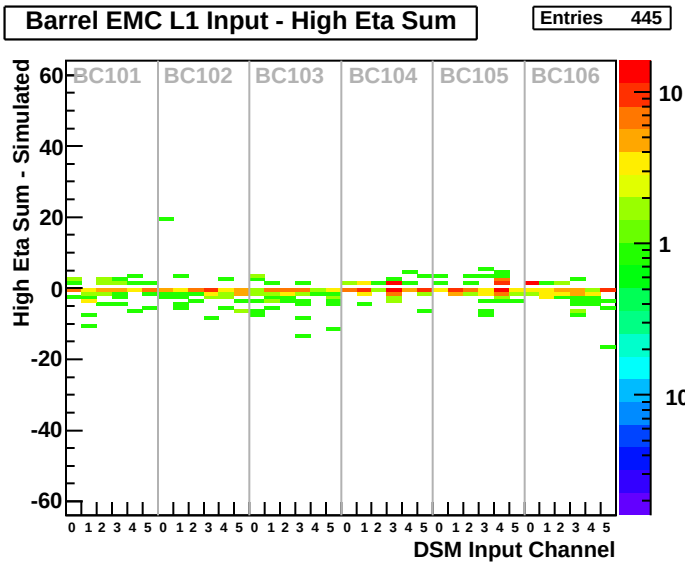
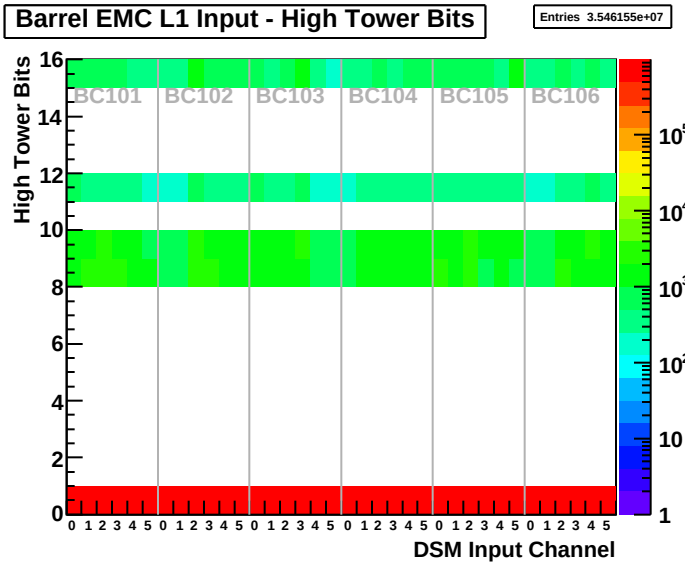
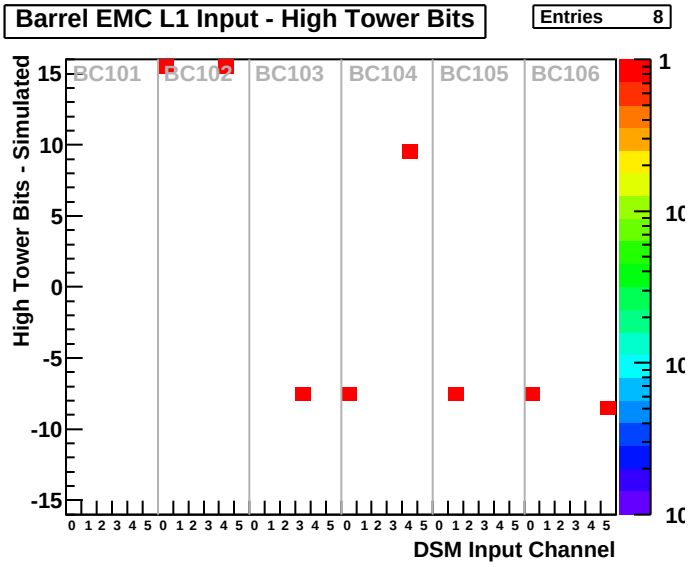

Barrel EMC L1 Input - Low Eta Sum
Entries 3.546155e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

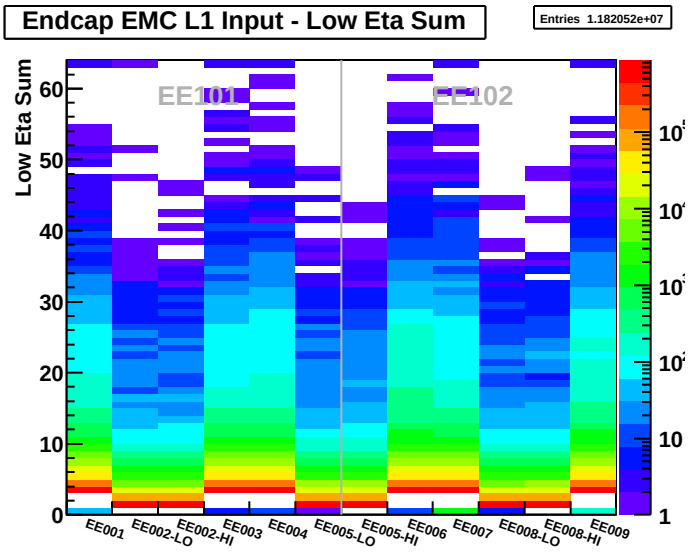

Barrel EMC L1 Input - Low Eta Sum
Entries 1800
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

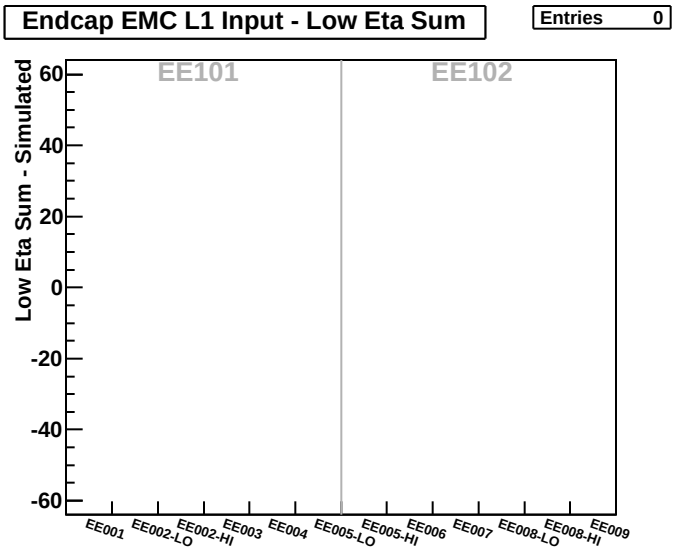

Barrel EMC L1 Input - High Eta Sum
Entries 3.546155e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

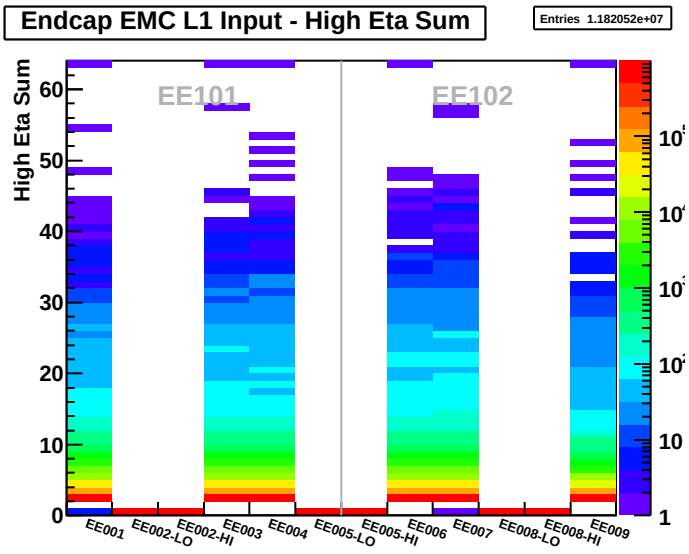

Barrel EMC L1 Input - High Eta Sum
Entries 445
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

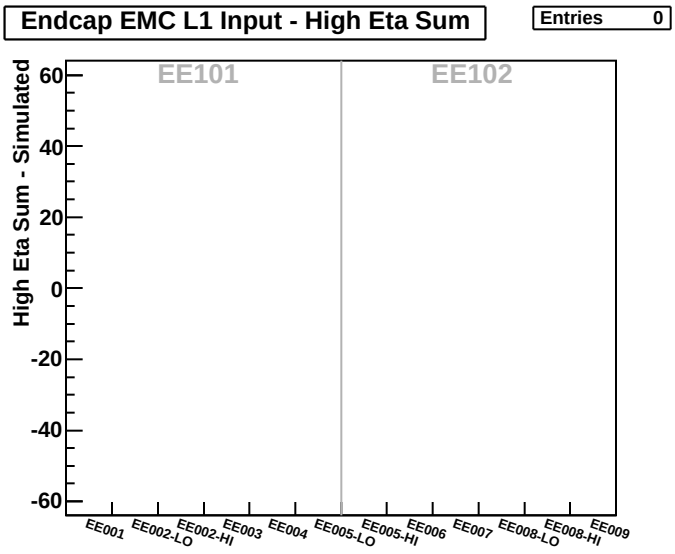

Barrel EMC L1 Input - High Tower Bits
Entries 3.546155e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

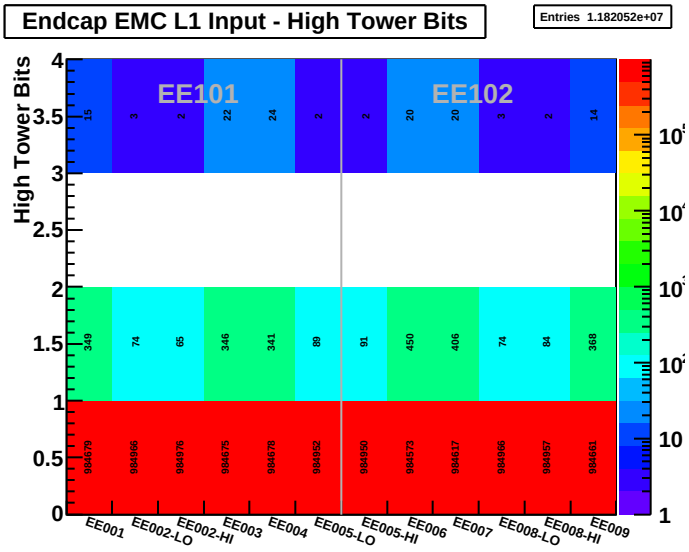

Barrel EMC L1 Input - High Tower Bits
Entries 8
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

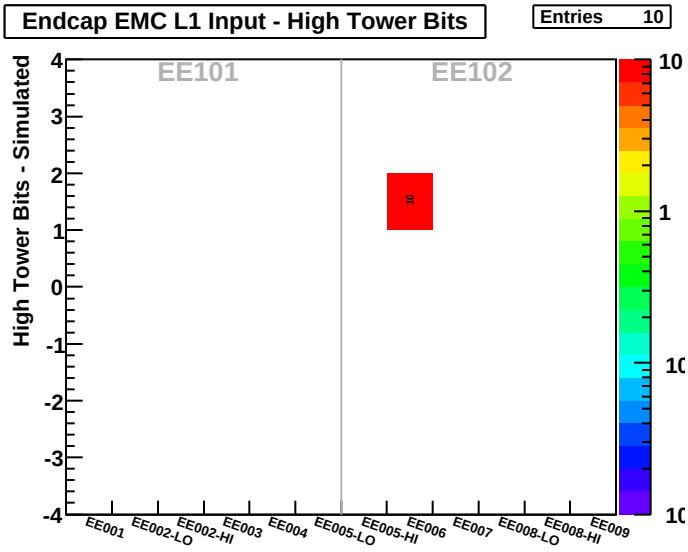

Endcap EMC L1 Input - Low Eta Sum
Entries 1.182052e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

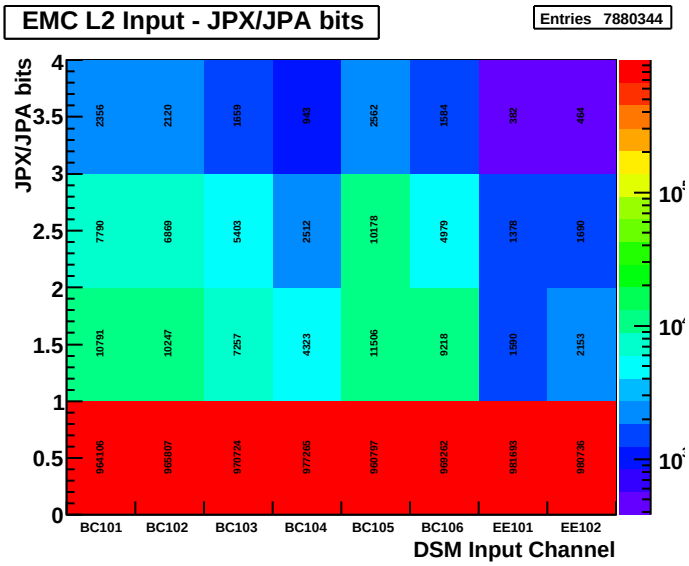

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

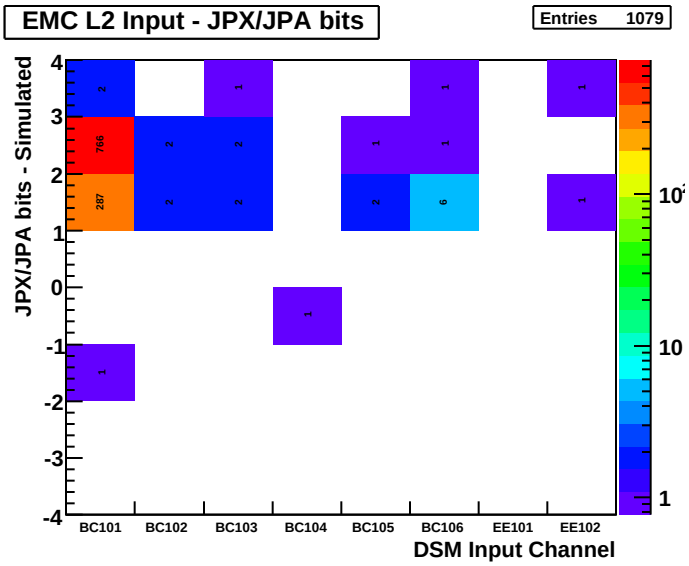

Endcap EMC L1 Input - High Eta Sum
Entries 1.182052e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

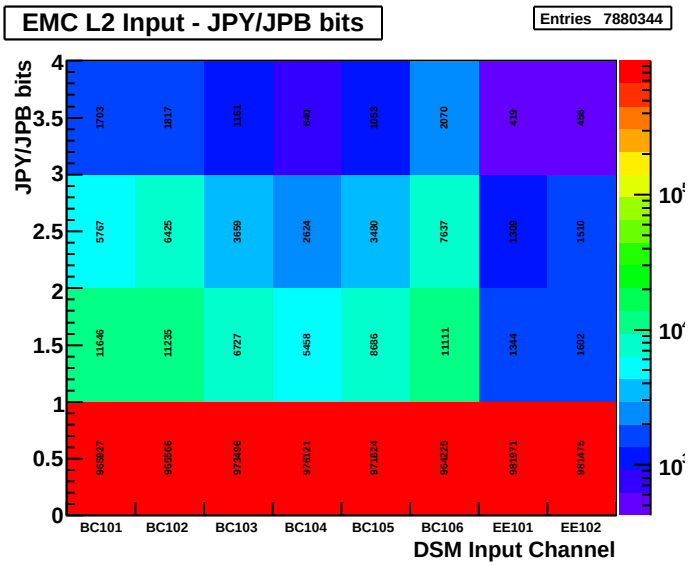

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

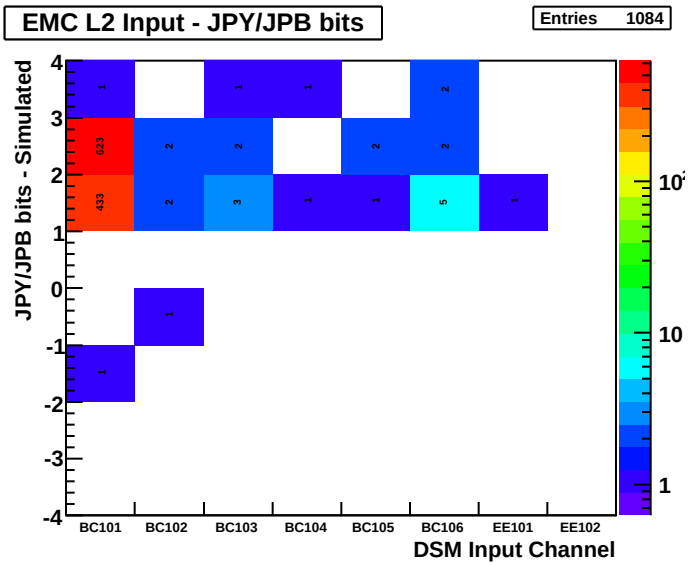

Endcap EMC L1 Input - High Tower Bits
Entries 1.182052e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

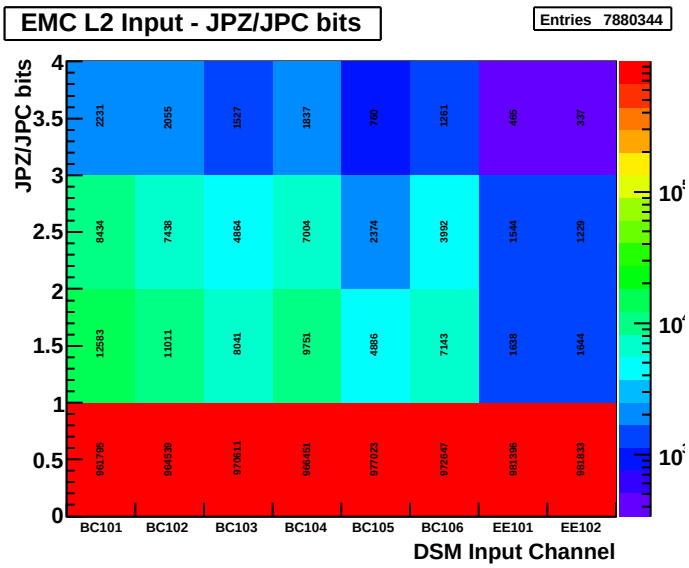

Endcap EMC L1 Input - High Tower Bits
Entries 10
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

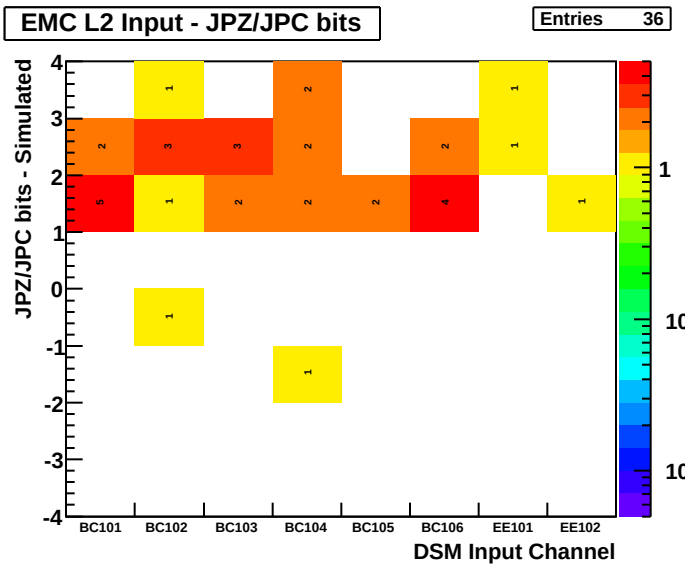

EMC L2 Input - JPX/JPA bits
Entries 7880344
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2356 2120 1659 943 2562 1584 382 464
7790 6869 5403 2512 10178 4979 1378 1690
10791 10247 7257 4323 11506 9218 1590 2153
964106 965807 970724 977265 980797 980262 981693 980736

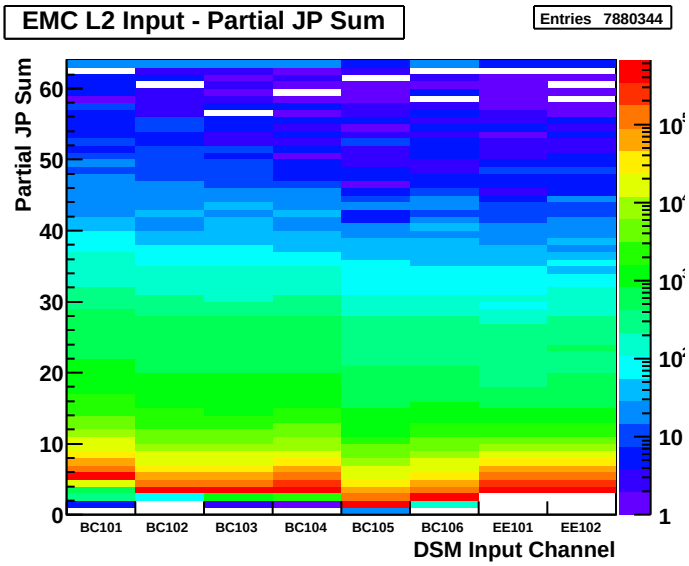

EMC L2 Input - JPX/JPA bits
Entries 1079
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1 1 1
766 2 2 1 1
287 2 2 2 6 1
1
1

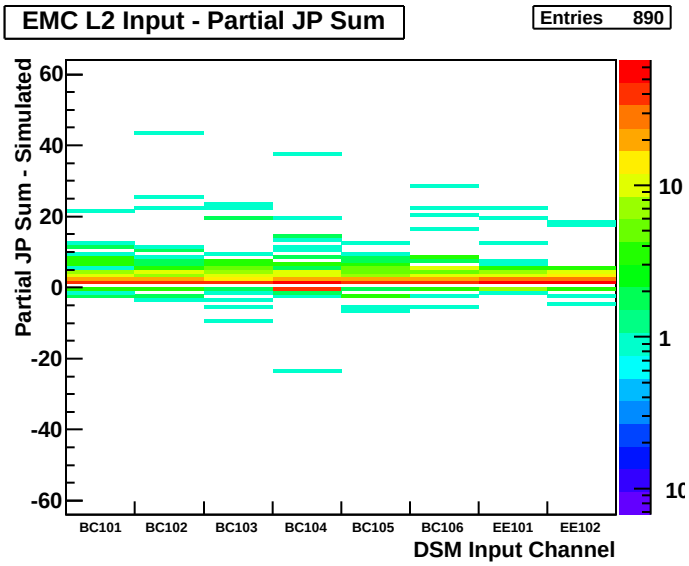

EMC L2 Input - JPY/JPB bits
Entries 7880344
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1703 1817 1161 840 1053 2070 419 456
5767 6425 3659 2624 3480 7637 1309 1510
11646 11235 6727 5458 8886 11111 1344 1602
965927 965566 973496 976121 971924 964225 981971 981475

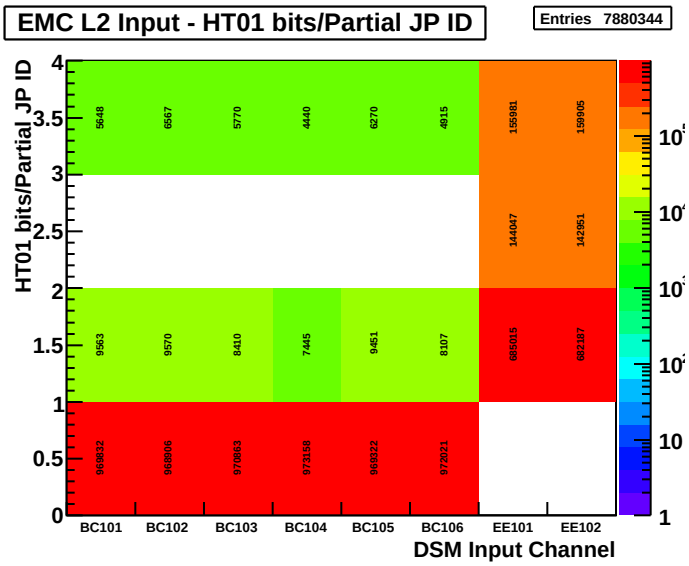

EMC L2 Input - JPY/JPB bits
Entries 1084
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 2
623 2 2 2 2
433 2 3 1 1 5 1
1
1

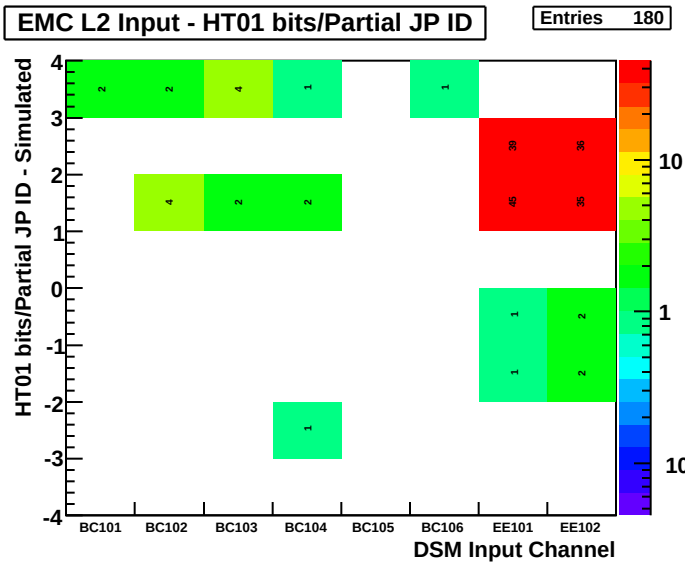

EMC L2 Input - JPZ/JPC bits
Entries 7880344
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2231 2055 1527 1837 760 1261 465 337
8434 7438 4864 7004 2374 3992 1544 1229
12583 11011 8041 9751 4986 7143 1638 1644
961795 964539 970611 966451 977023 972647 981396 981833

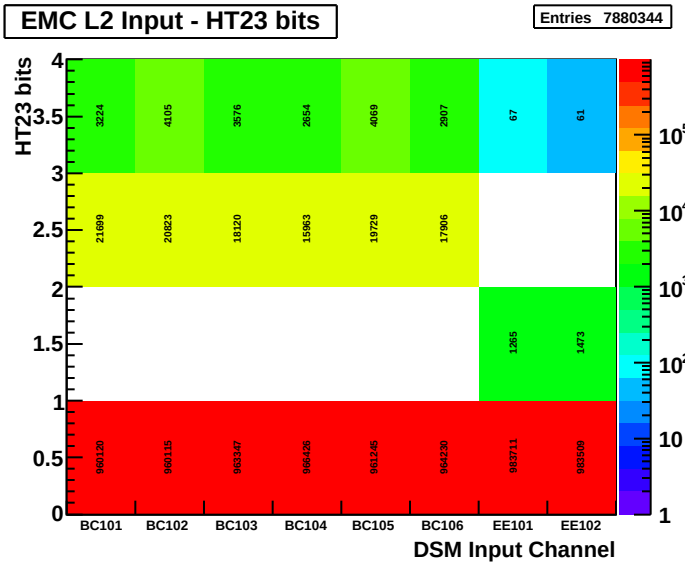

EMC L2 Input - JPZ/JPC bits
Entries 36
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 2 1
2 3 3 2 2 1
5 1 2 2 2 4 1
1
1

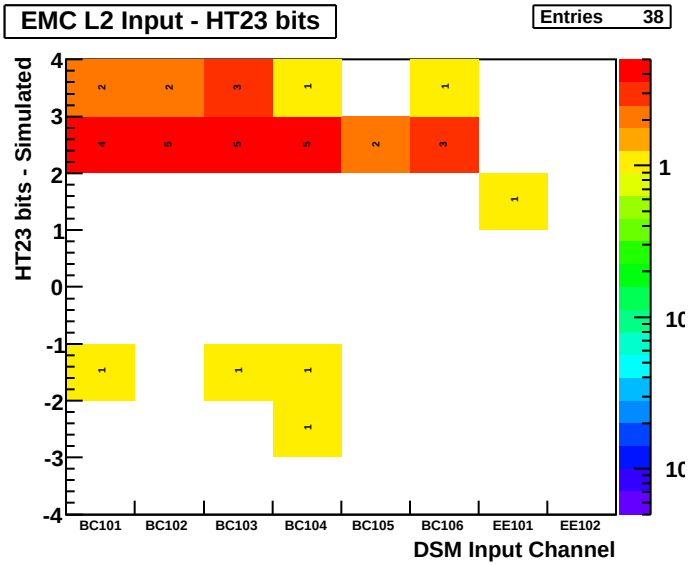

EMC L2 Input - Partial JP Sum
Entries 7880344
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

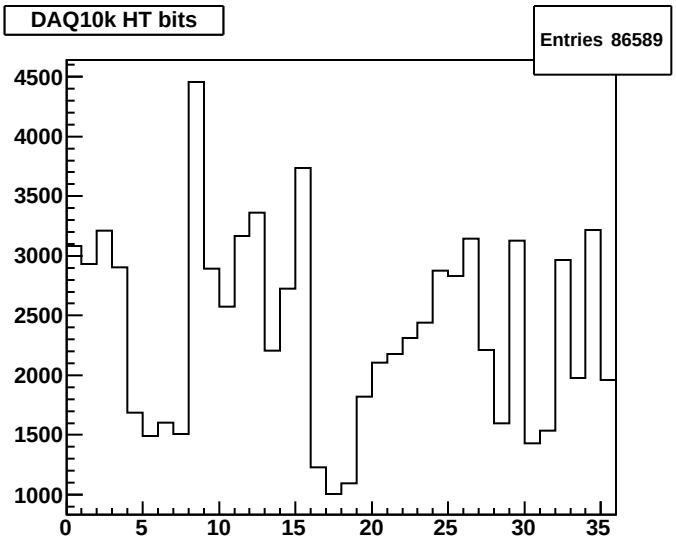

EMC L2 Input - Partial JP Sum
Entries 890
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

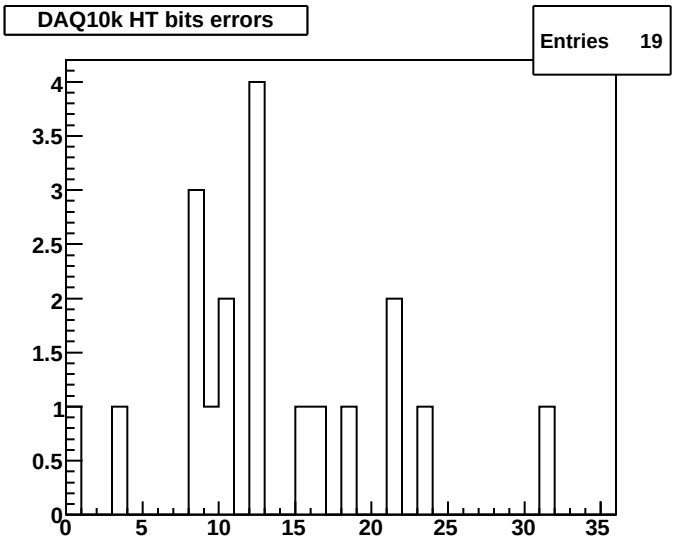

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7880344
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

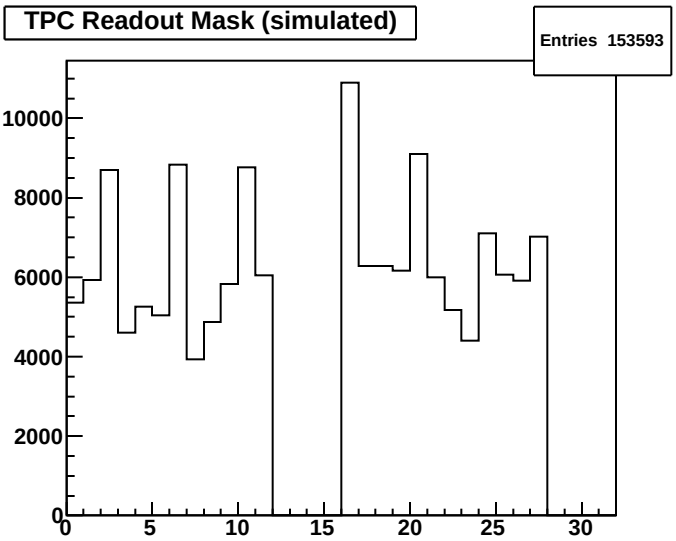

EMC L2 Input - HT01 bits/Partial JP ID
Entries 180
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

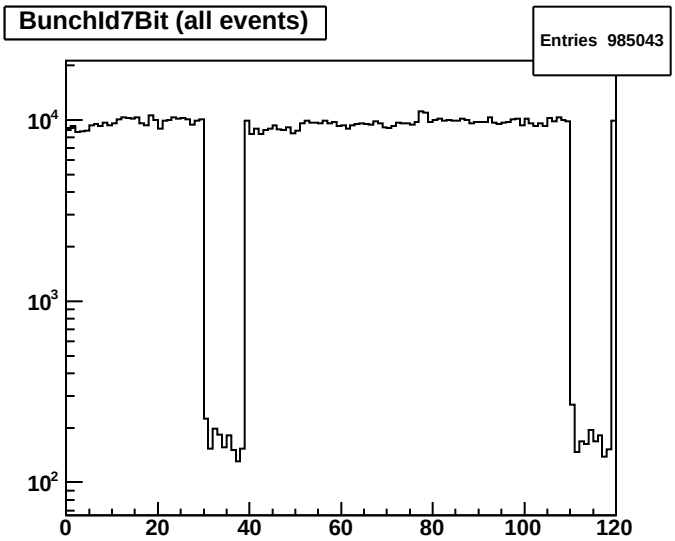

EMC L2 Input - HT23 bits
Entries 7880344
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

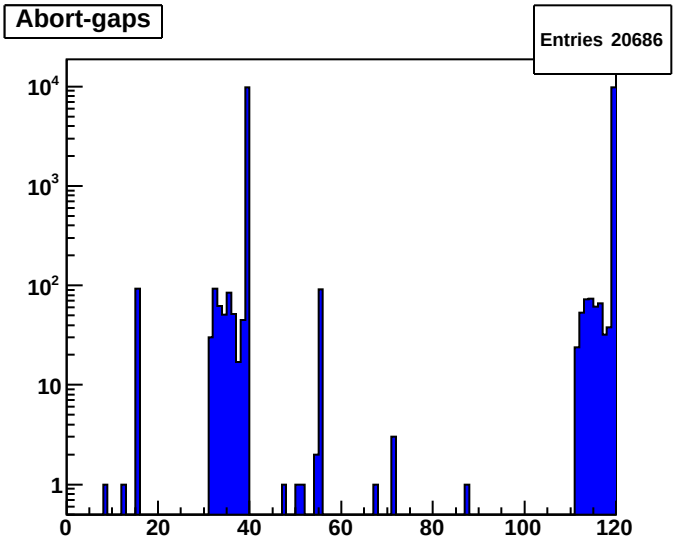

EMC L2 Input - HT23 bits
Entries 38
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

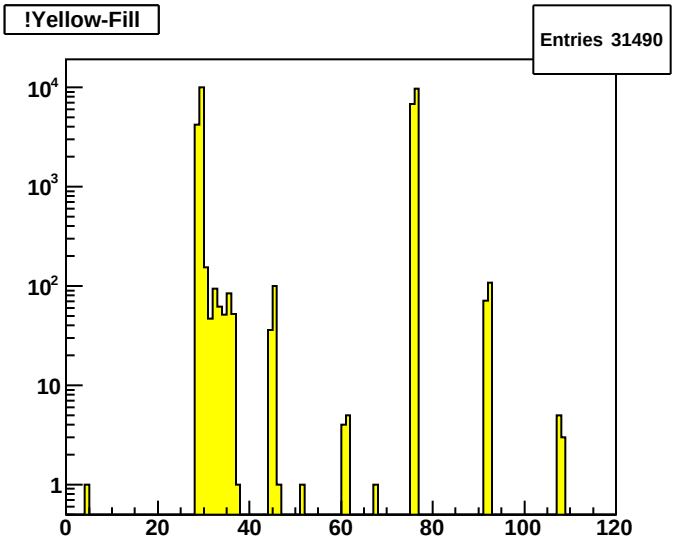

DAQ10k HT bits
Entries 86589

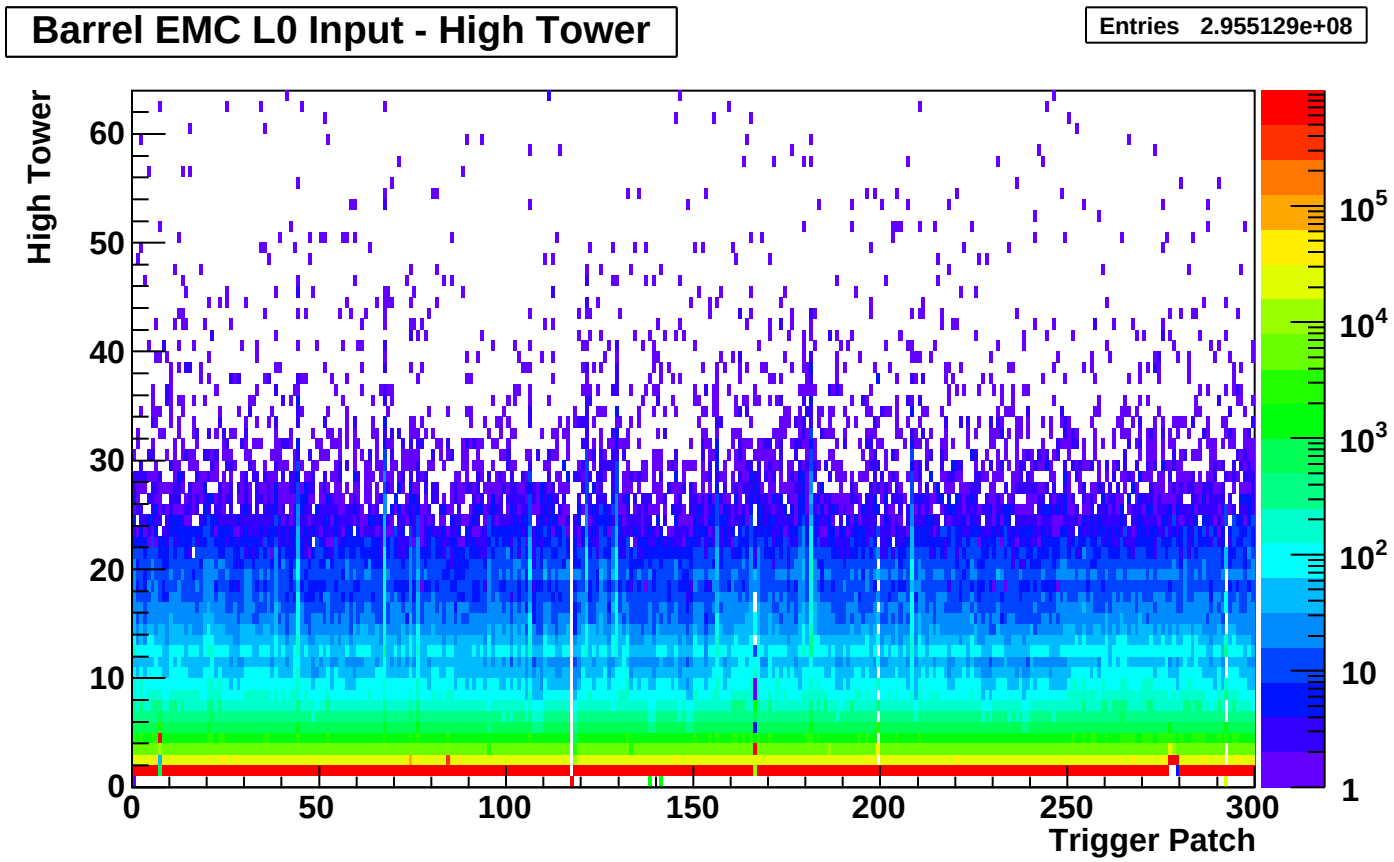

DAQ10k HT bits errors
Entries 19

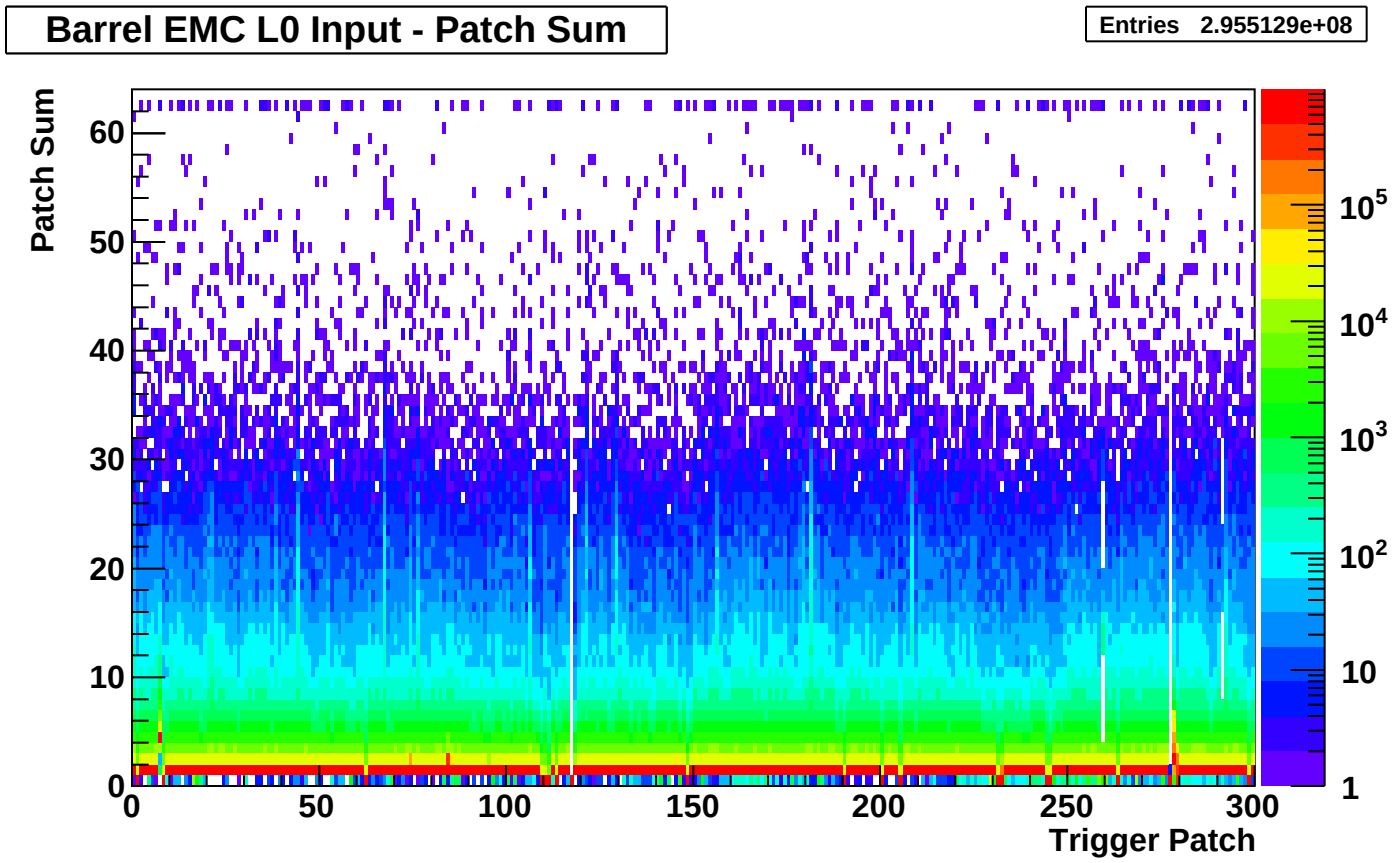

TPC Readout Mask (simulated)
Entries 153593

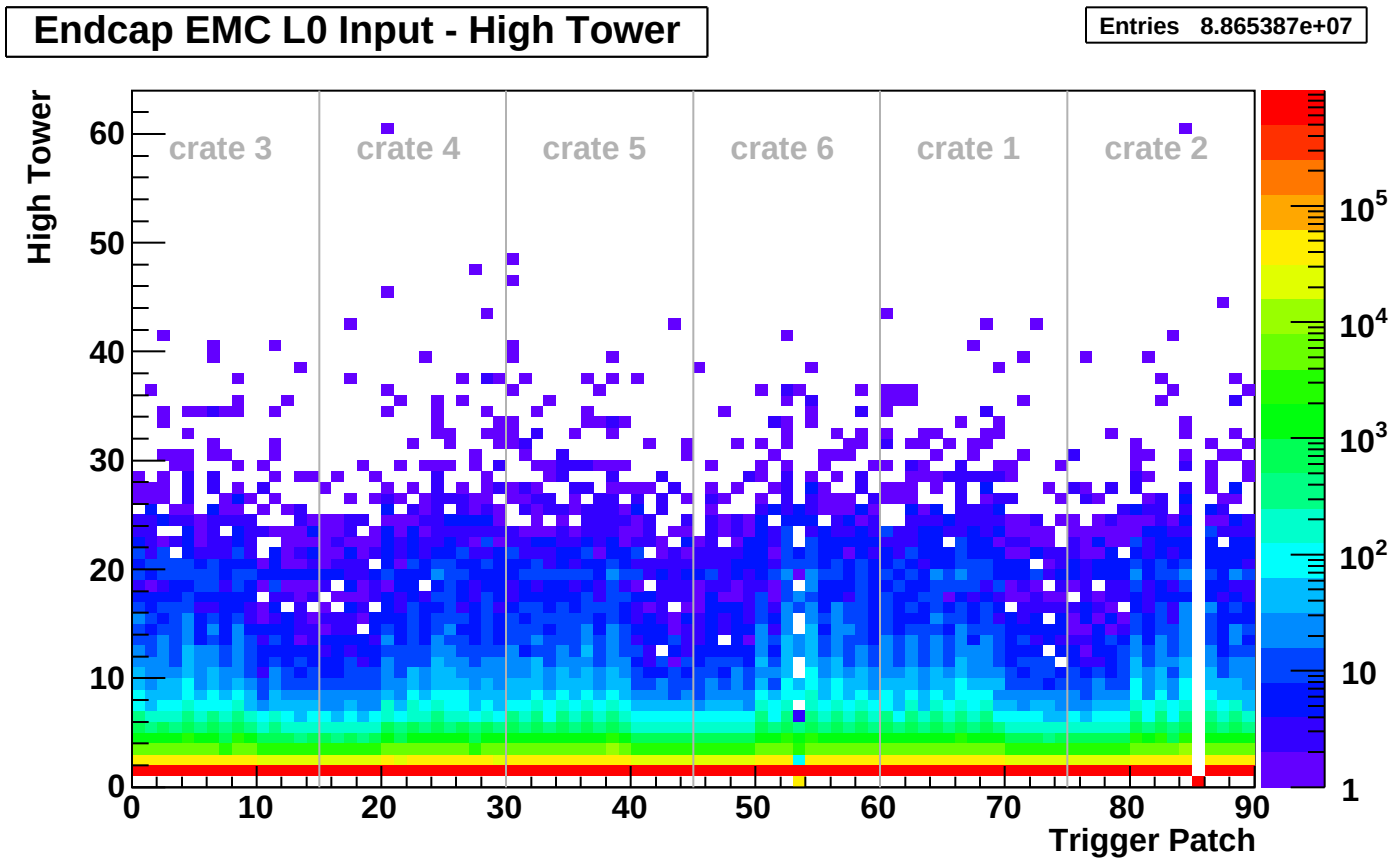

BunchId7Bit (all events)
Entries 985043

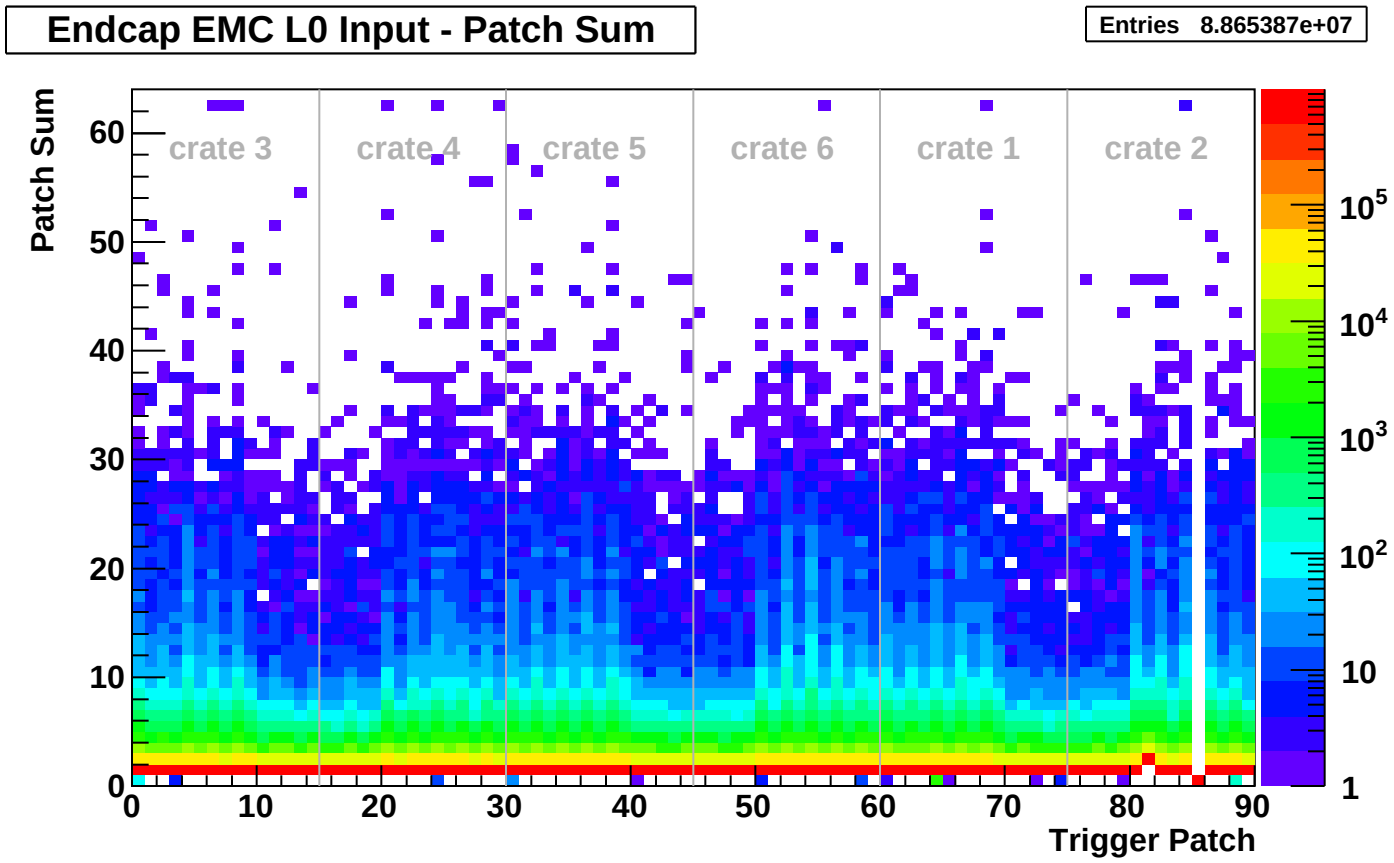

Abort-gaps
Entries 20686

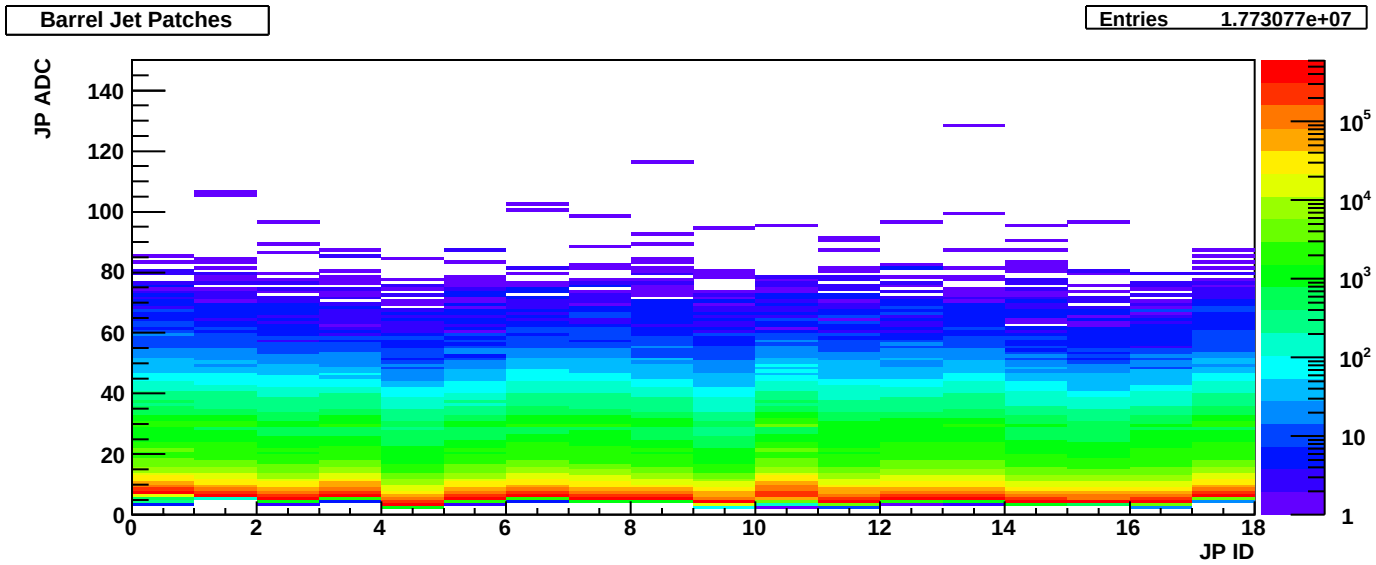

!Yellow-Fill
Entries 31490

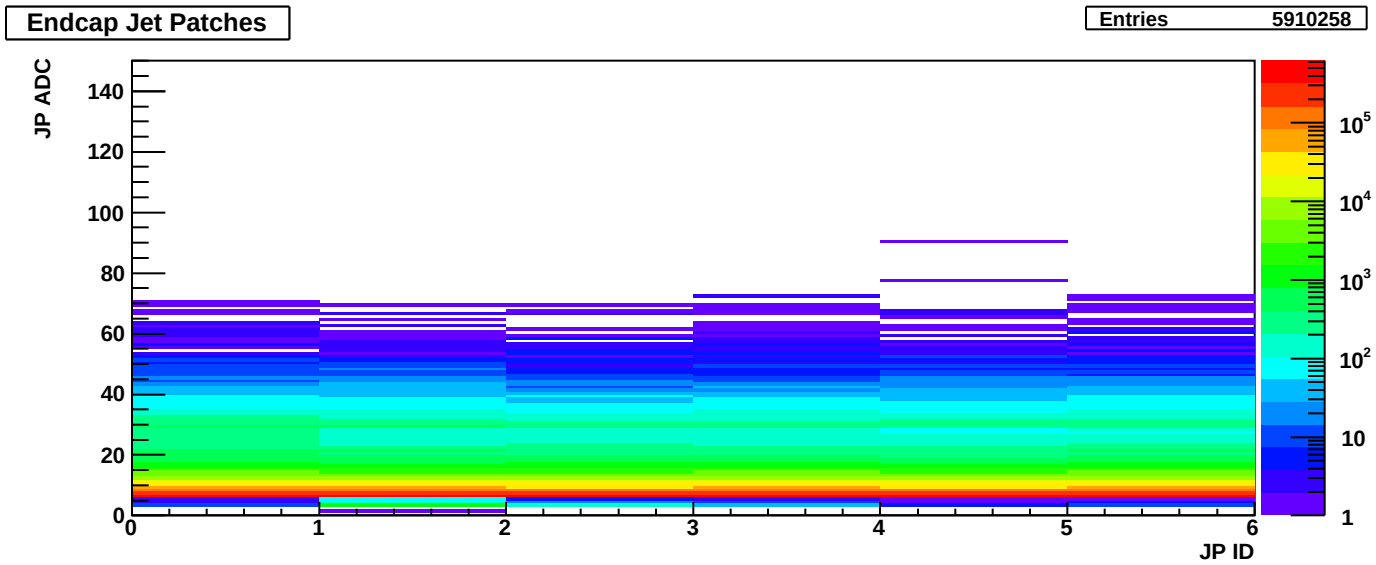

Barrel EMC L0 Input - High Tower
Entries 2.955129e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

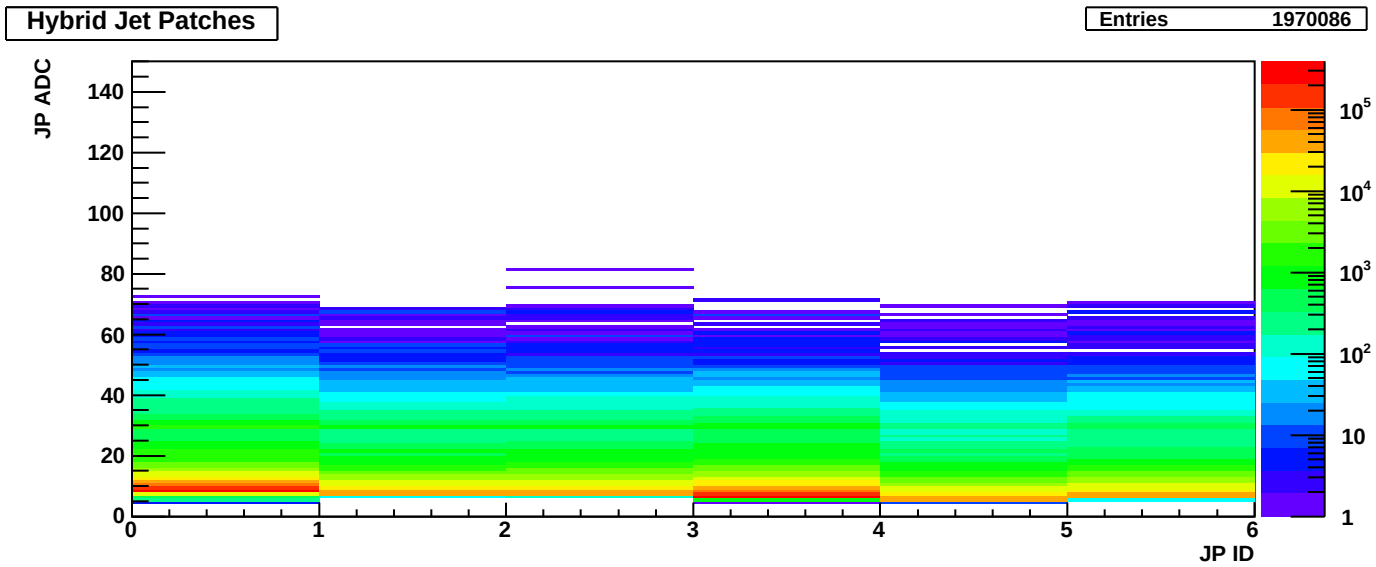

Barrel EMC L0 Input - Patch Sum
Entries 2.955129e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

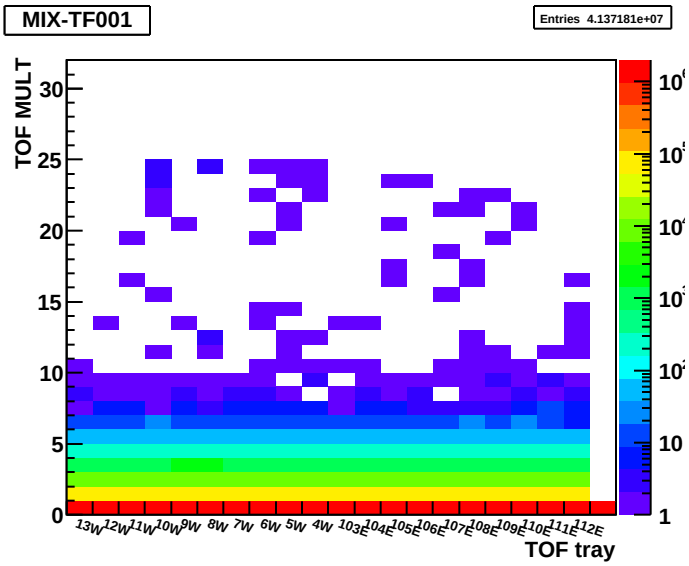

Endcap EMC L0 Input - High Tower
Entries 8.865387e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

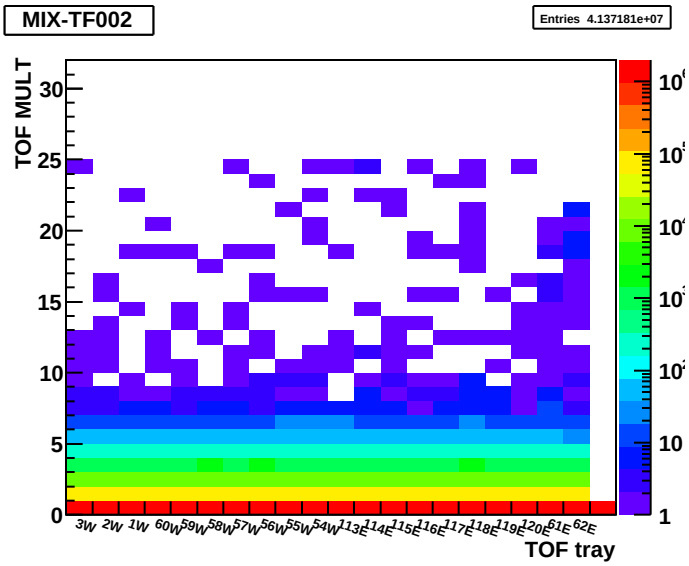

Endcap EMC L0 Input - Patch Sum
Entries 8.865387e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

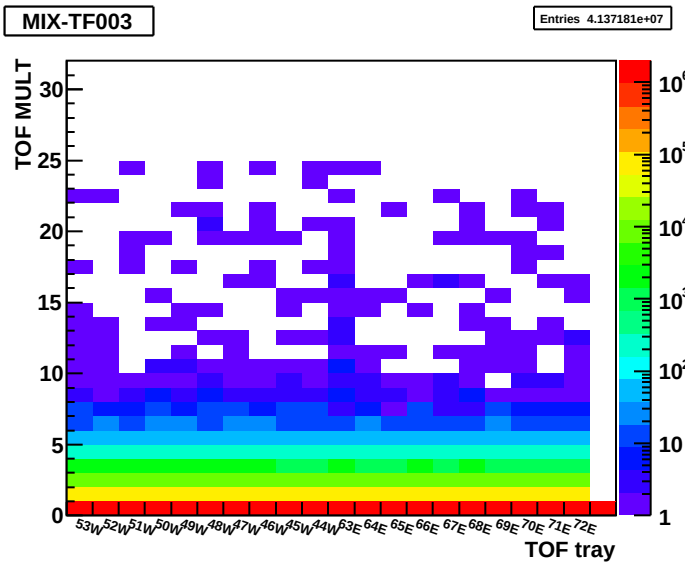

Barrel Jet Patches
Entries 1.773077e+07
JP ADC
JP ID

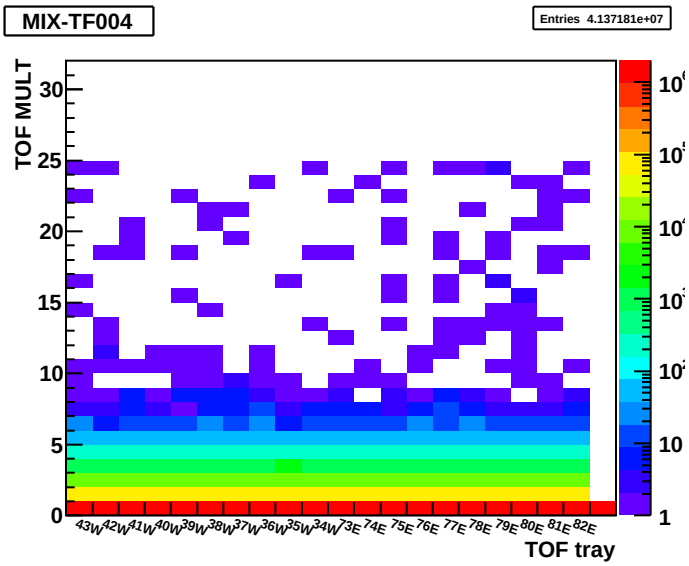

Endcap Jet Patches
Entries 5910258
JP ADC
JP ID

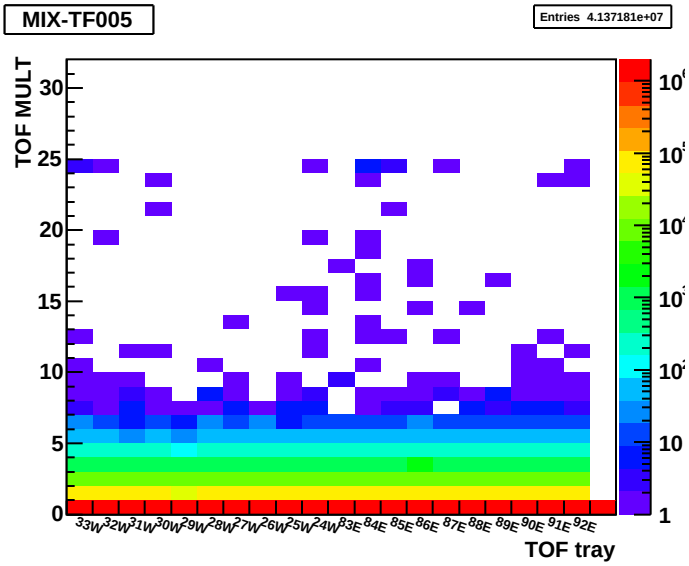

Hybrid Jet Patches
Entries 1970086
JP ADC
JP ID

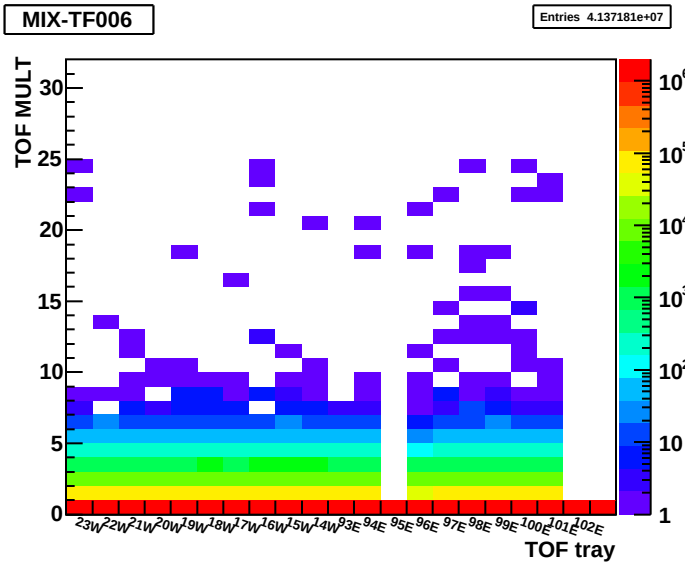

MIX-TF001
Entries 4.137181e+07
TOF MULT
TOF tray

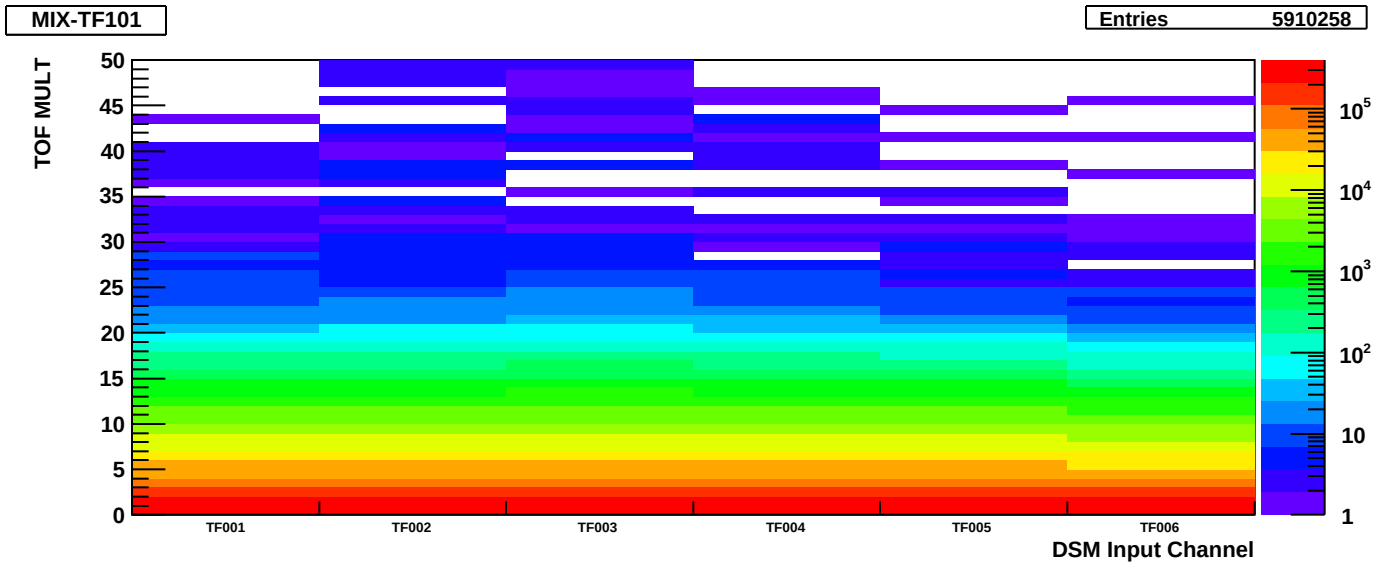

MIX-TF002
Entries 4.137181e+07
TOF MULT
TOF tray

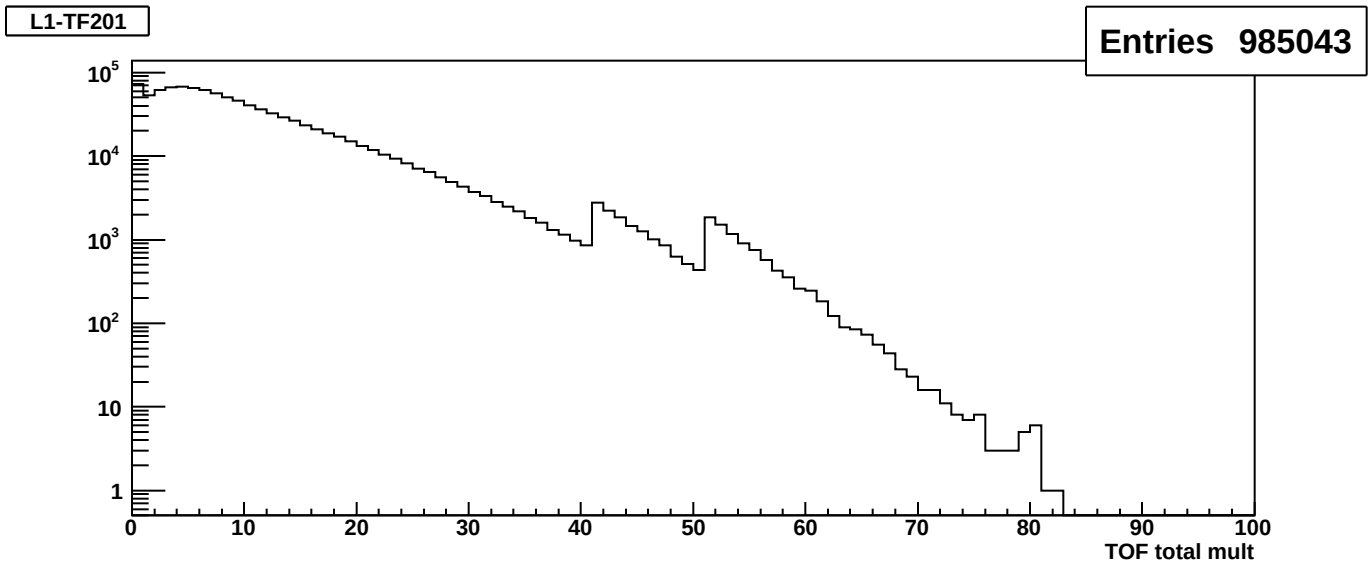

MIX-TF003
Entries 4.137181e+07
TOF MULT
TOF tray

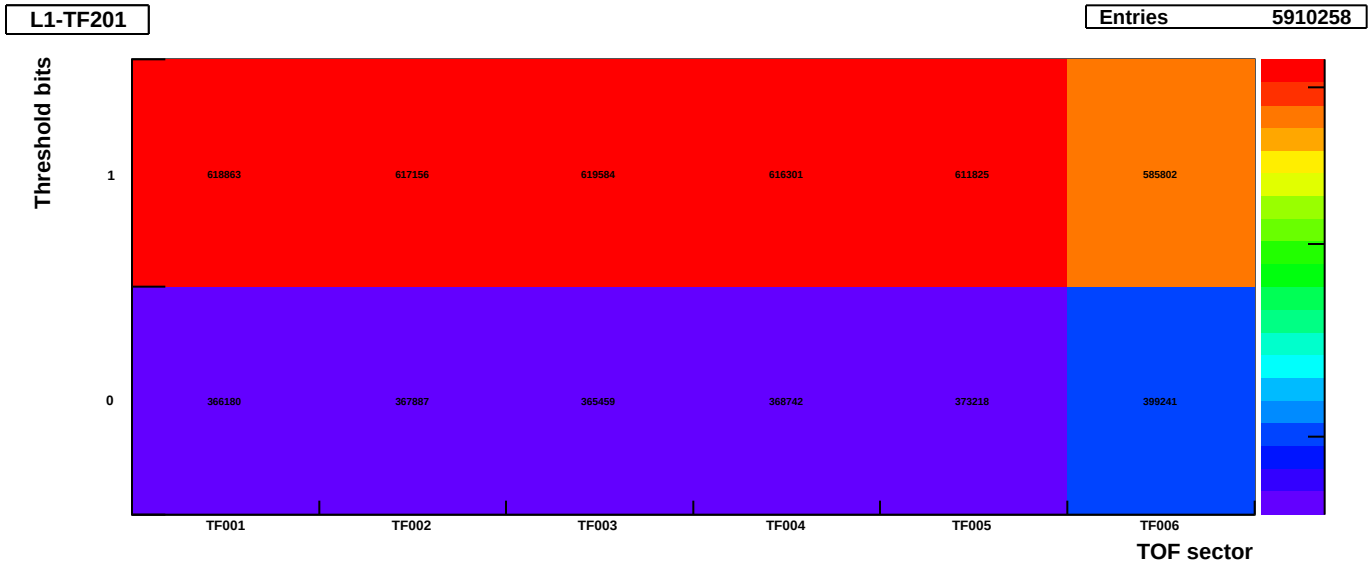

MIX-TF004
Entries 4.137181e+07
TOF MULT
TOF tray

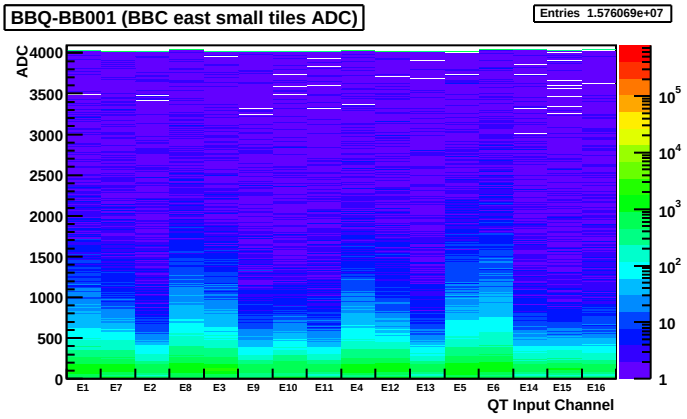

MIX-TF005
Entries 4.137181e+07
TOF MULT
TOF tray

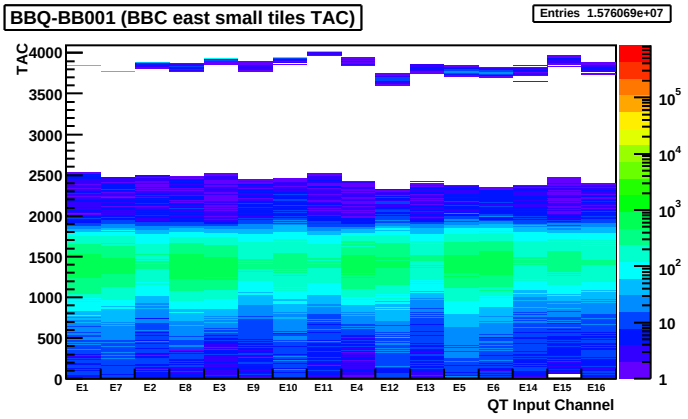

MIX-TF006
Entries 4.137181e+07
TOF MULT
TOF tray

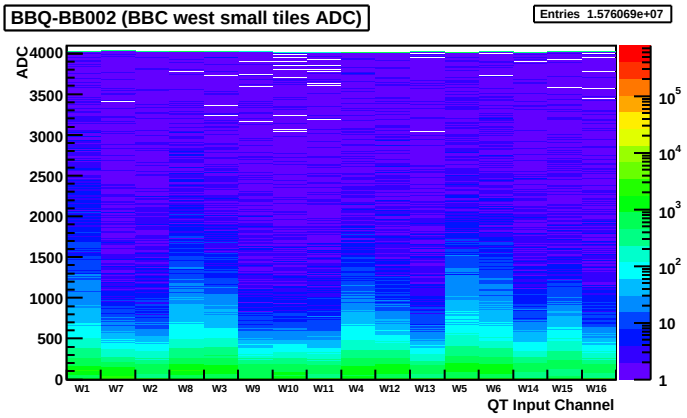

MIX-TF101
Entries 5910258
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

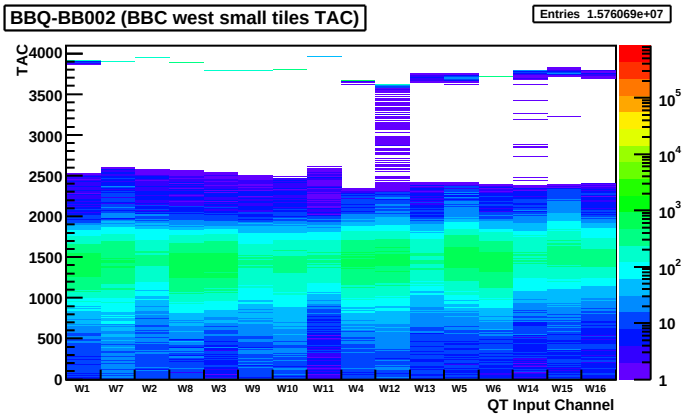

L1-TF201
Entries 985043
TOF total mult

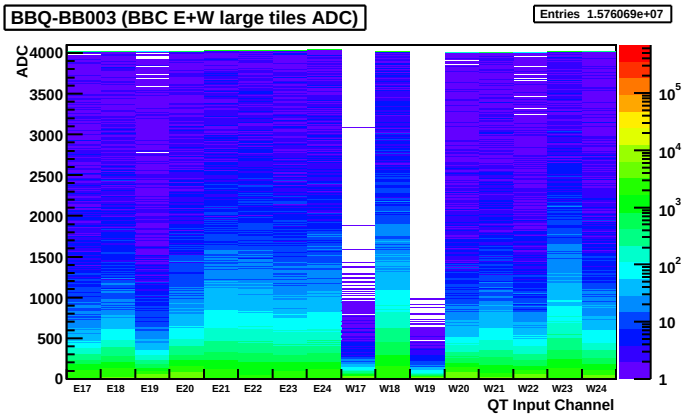

L1-TF201
Entries 5910258
Threshold bits
618863
617156
619584
616301
611825
585802
366180
367887
365459
368742
373218
399241
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

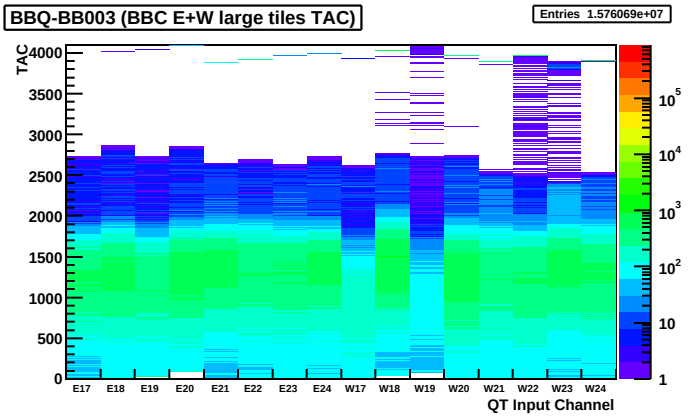

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.576069e+07
ADC
QT Input Channel

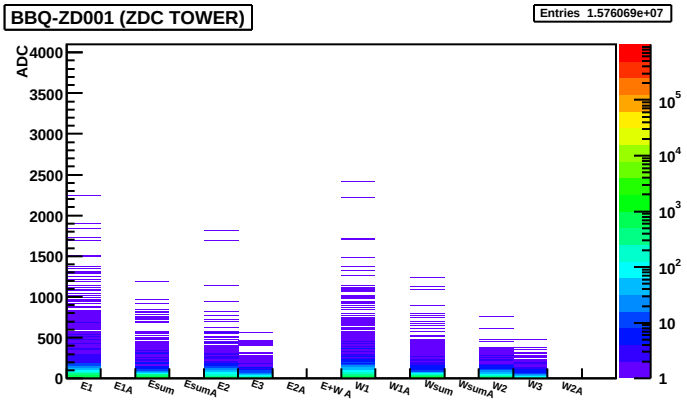

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.576069e+07
TAC
QT Input Channel

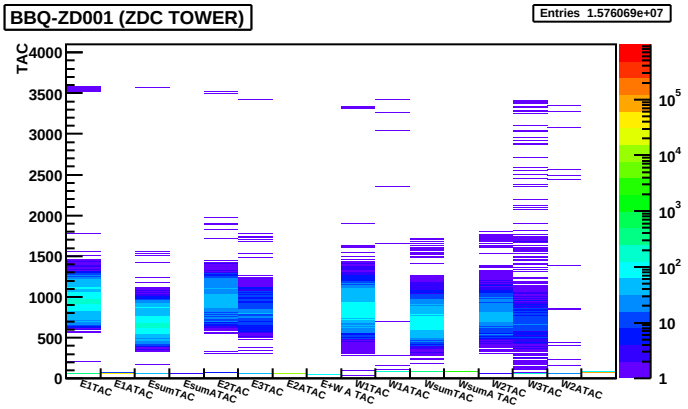

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.576069e+07
ADC
QT Input Channel

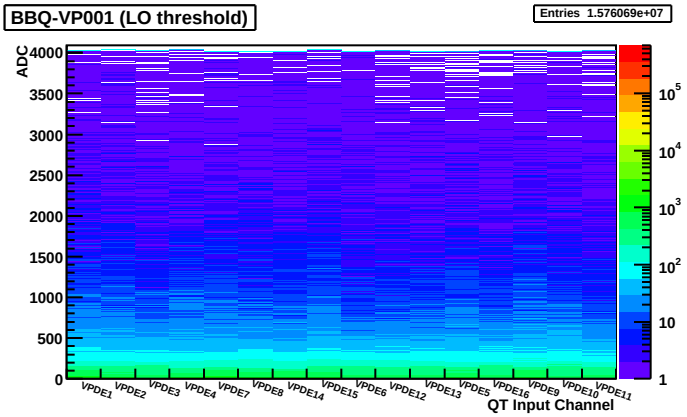

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.576069e+07
TAC
QT Input Channel

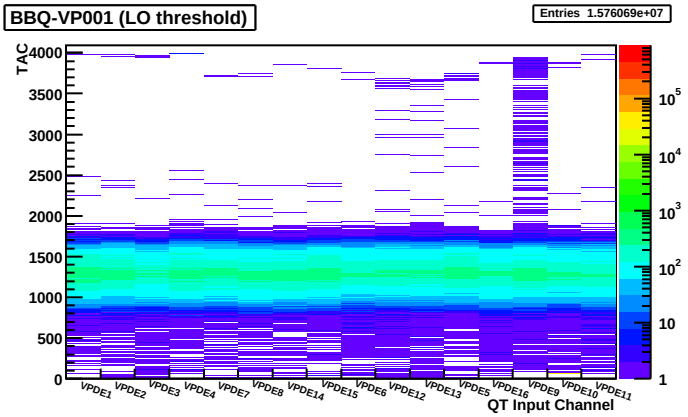

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.576069e+07
ADC
QT Input Channel

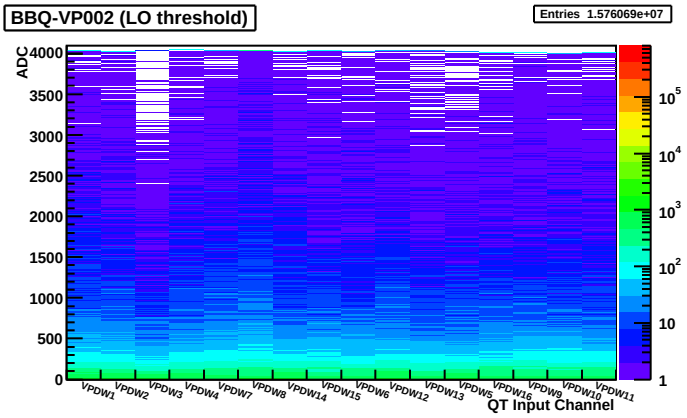

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.576069e+07
TAC
QT Input Channel

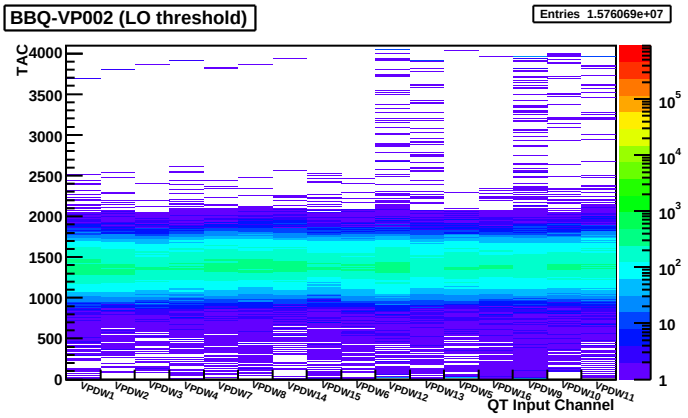

BBQ-ZD001 (ZDC TOWER)
Entries 1.576069e+07
ADC

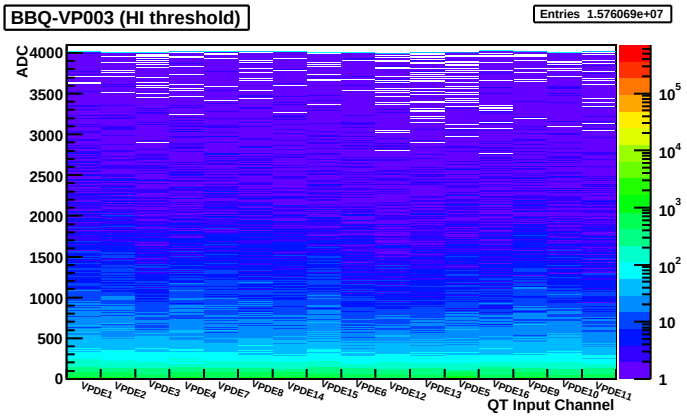

BBQ-ZD001 (ZDC TOWER)
Entries 1.576069e+07
TAC

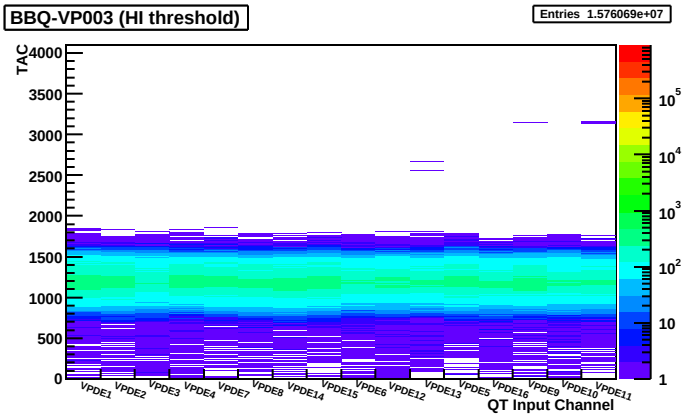

BBQ-VP001 (LO threshold)
Entries 1.576069e+07
ADC
QT Input Channel

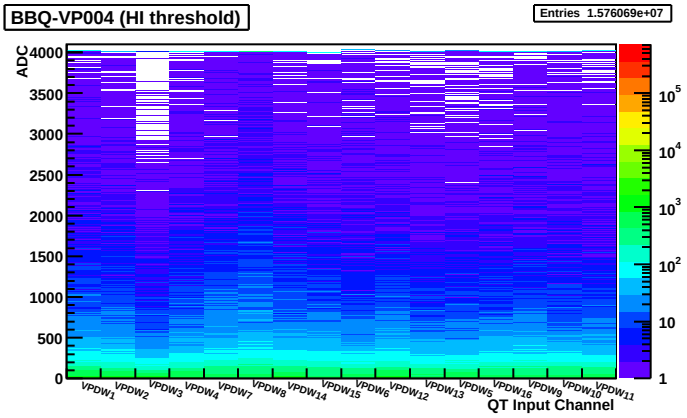

BBQ-VP001 (LO threshold)
Entries 1.576069e+07
TAC
QT Input Channel

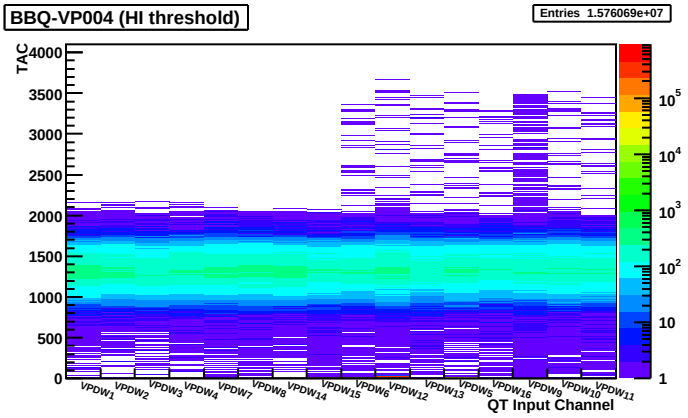

BBQ-VP002 (LO threshold)
Entries 1.576069e+07
ADC
QT Input Channel

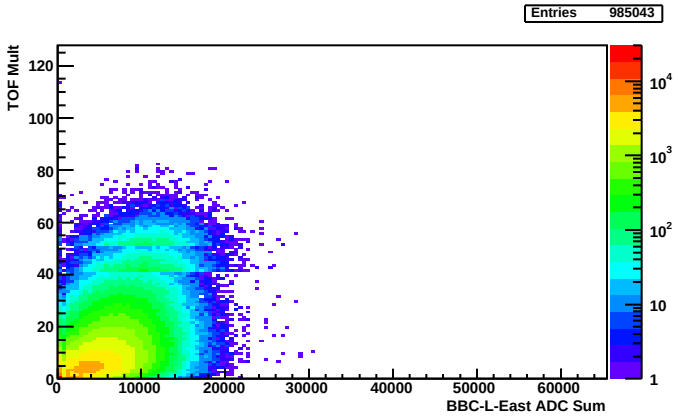

BBQ-VP002 (LO threshold)
Entries 1.576069e+07
TAC
QT Input Channel

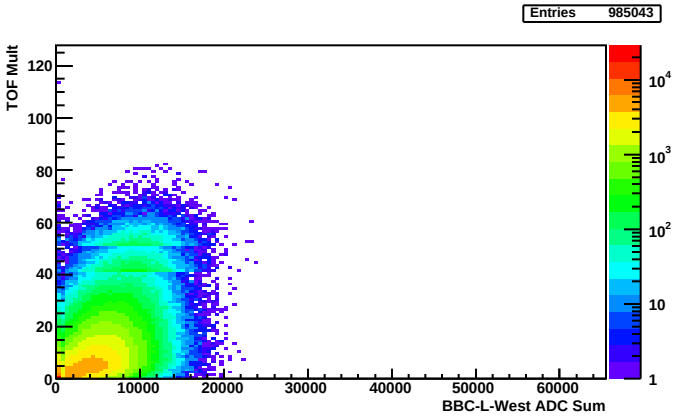

BBQ-VP003 (HI threshold)
Entries 1.576069e+07
ADC
QT Input Channel

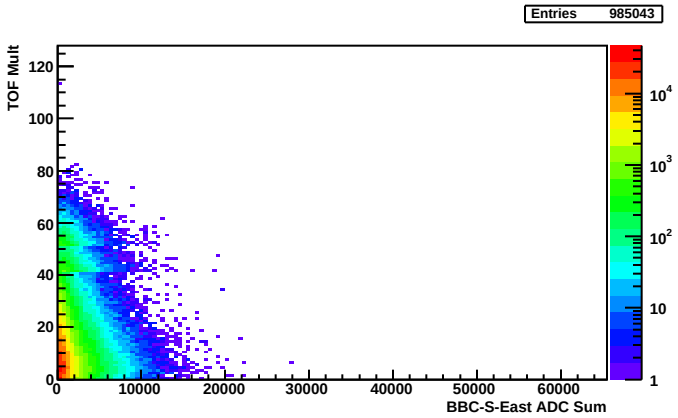

BBQ-VP003 (HI threshold)
Entries 1.576069e+07
TAC
QT Input Channel

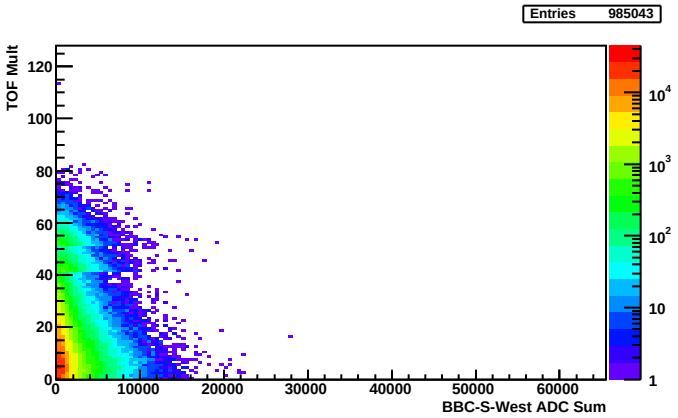

BBQ-VP004 (HI threshold)
Entries 1.576069e+07
ADC
QT Input Channel

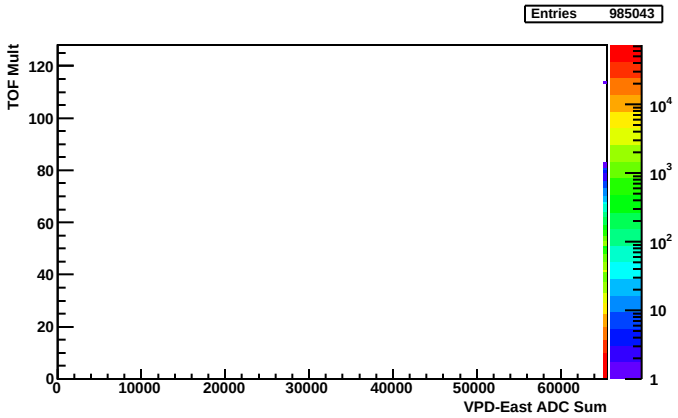

BBQ-VP004 (HI threshold)
Entries 1.576069e+07
TAC
QT Input Channel

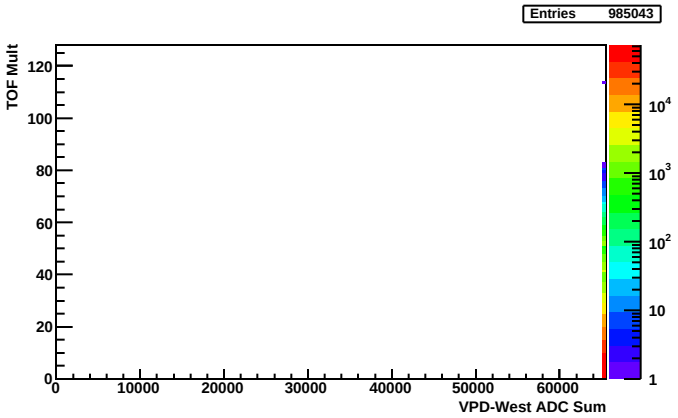

Entries 985043
TOF Mult
BBC-L-East ADC Sum

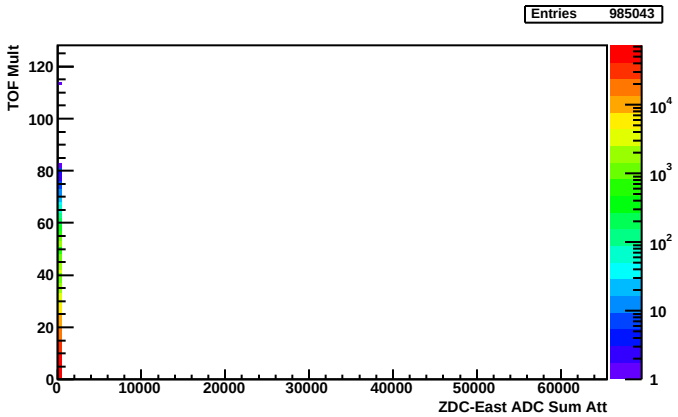

Entries 985043
TOF Mult
BBC-L-West ADC Sum

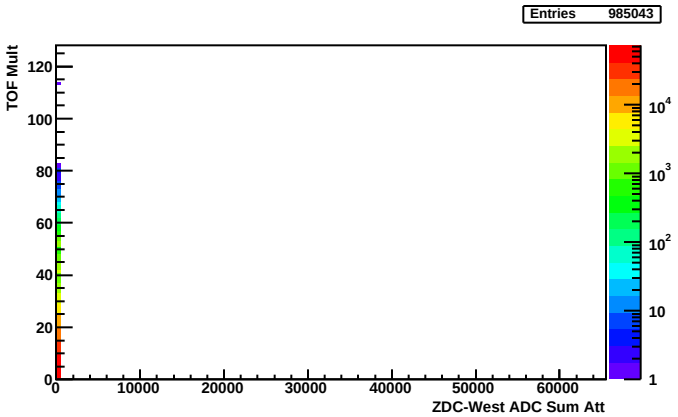

Entries 985043
TOF Mult
BBC-S-East ADC Sum

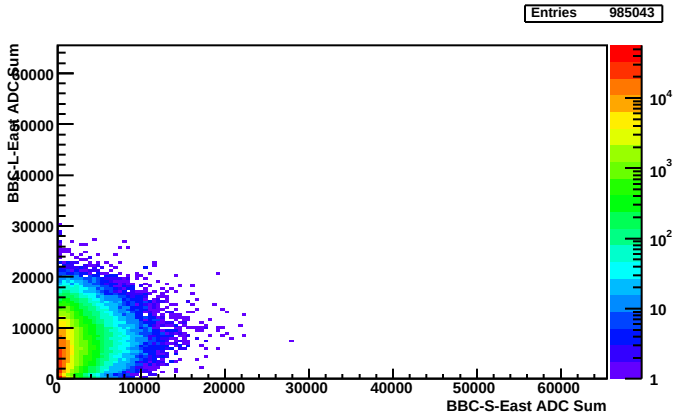

Entries 985043
TOF Mult
BBC-S-West ADC Sum

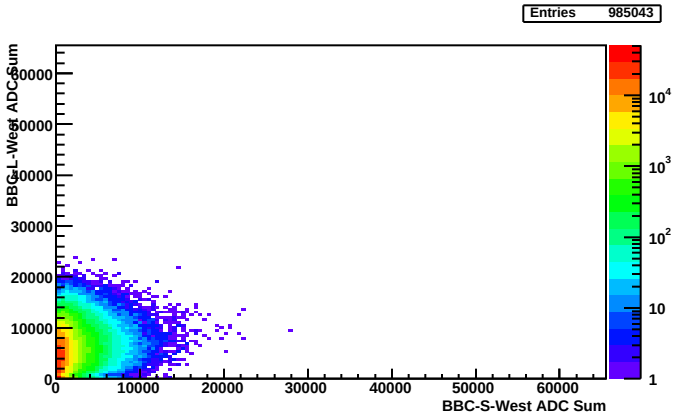

Entries 985043
TOF Mult
VPD-East ADC Sum

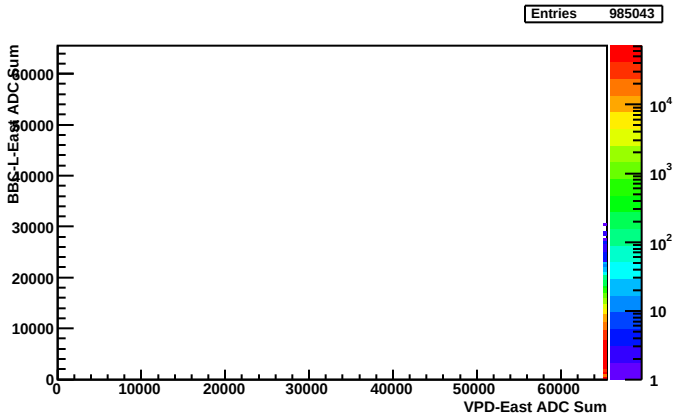

Entries 985043
TOF Mult
VPD-West ADC Sum

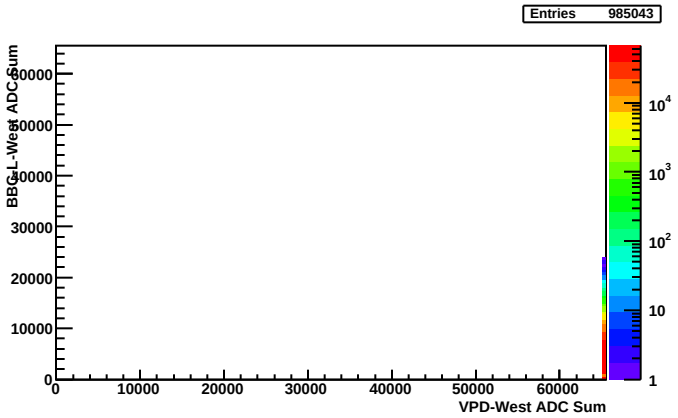

Entries 985043
TOF Mult
ZDC-East ADC Sum Att

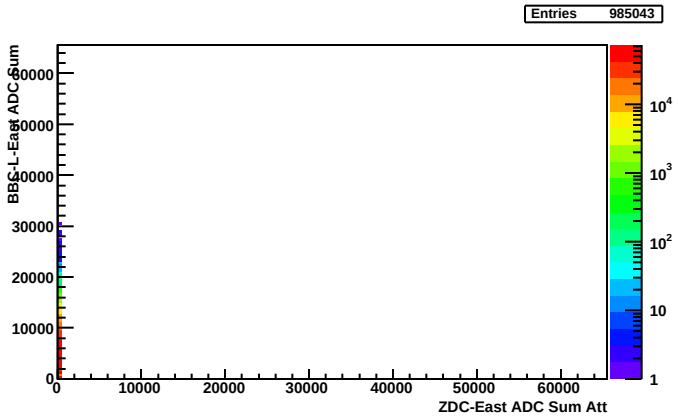

Entries 985043
TOF Mult
ZDC-West ADC Sum Att

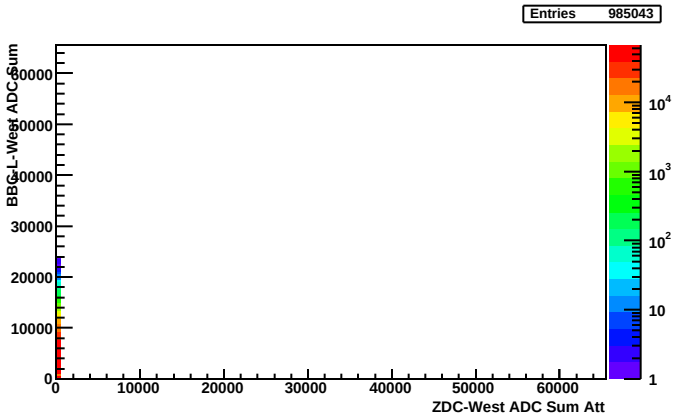

Entries 985043
BBC-L-East ADC Sum
BBC-S-East ADC Sum

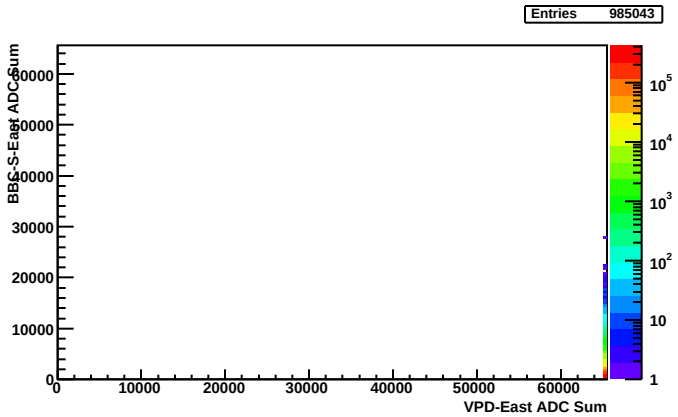

Entries 985043
BBC-L-West ADC Sum
BBC-S-West ADC Sum

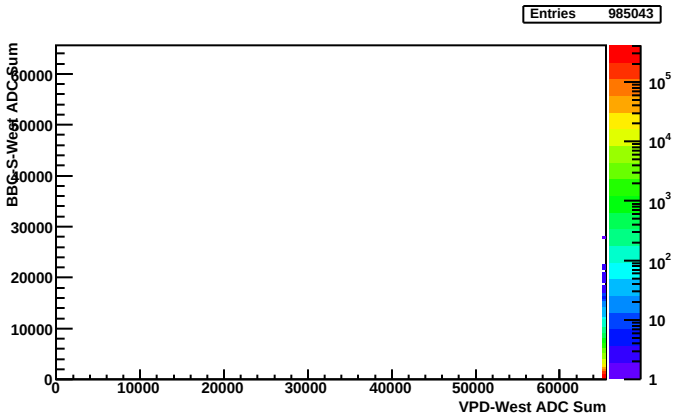

Entries 985043
BBC-L-East ADC Sum
VPD-East ADC Sum

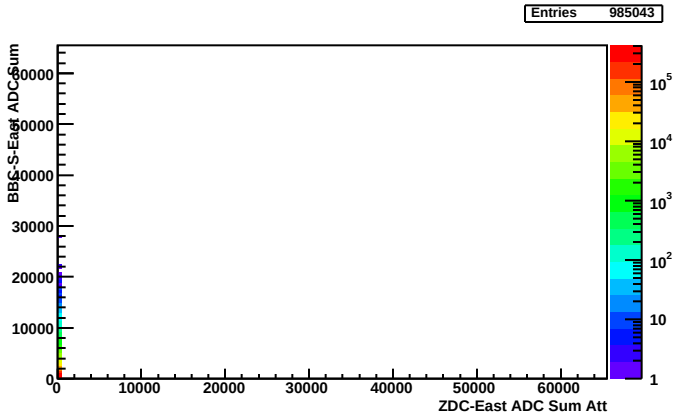

Entries 985043
BBC-L-West ADC Sum
VPD-West ADC Sum

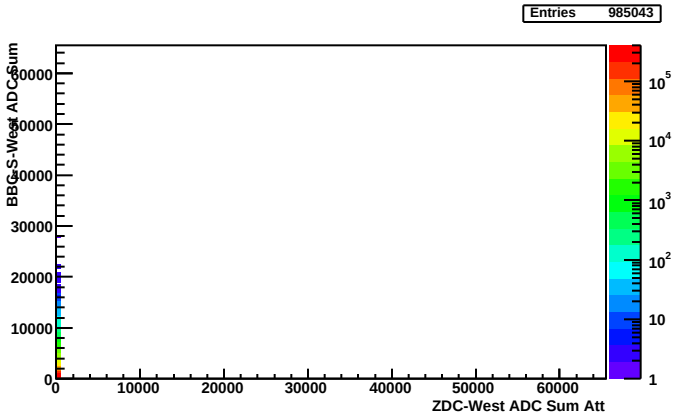

Entries 985043
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

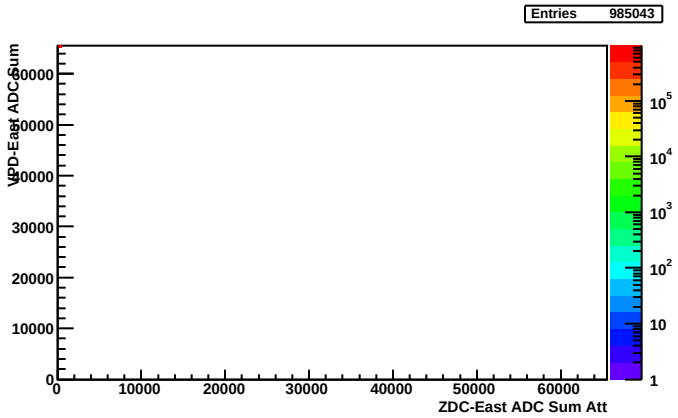

Entries 985043
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

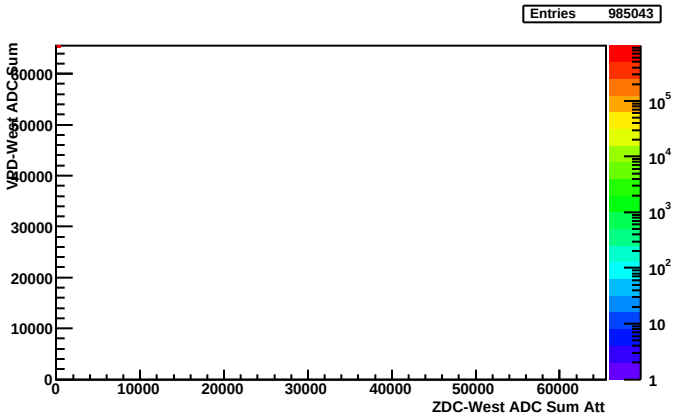

Entries 985043
BBC-S-East ADC Sum
VPD-East ADC Sum

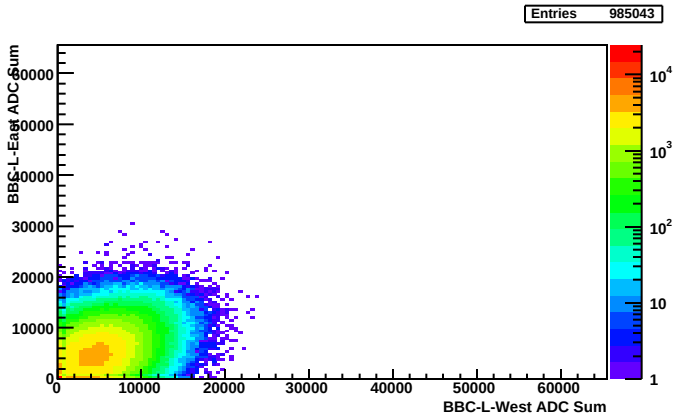

Entries 985043
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 985043
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 985043
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 985043
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 985043
VPD-West ADC Sum
ZDC-West ADC Sum Att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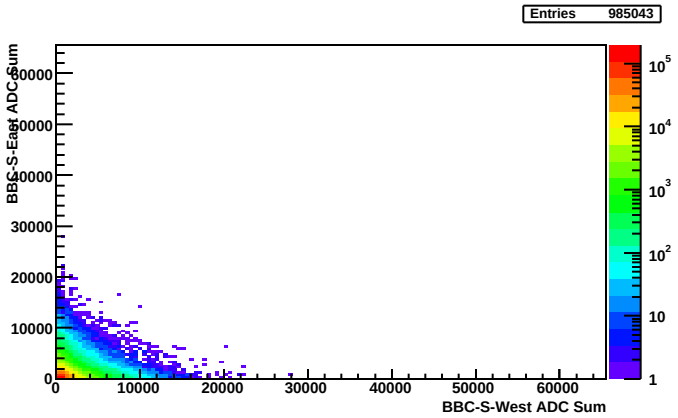
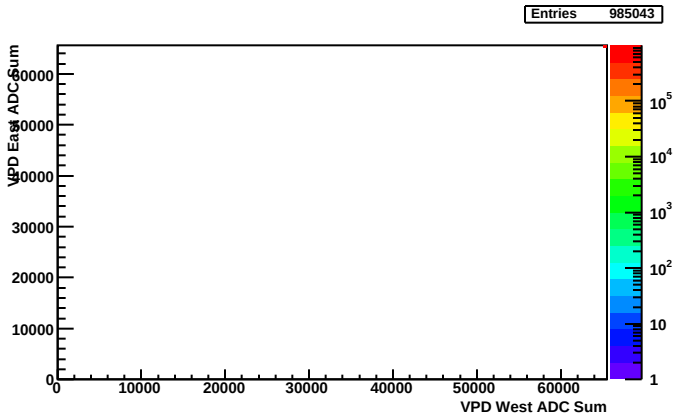
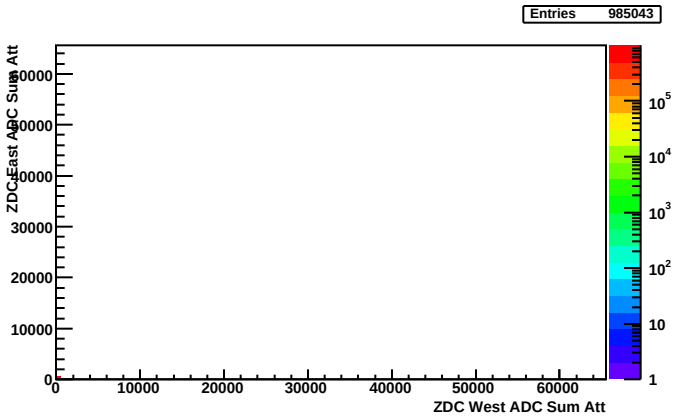
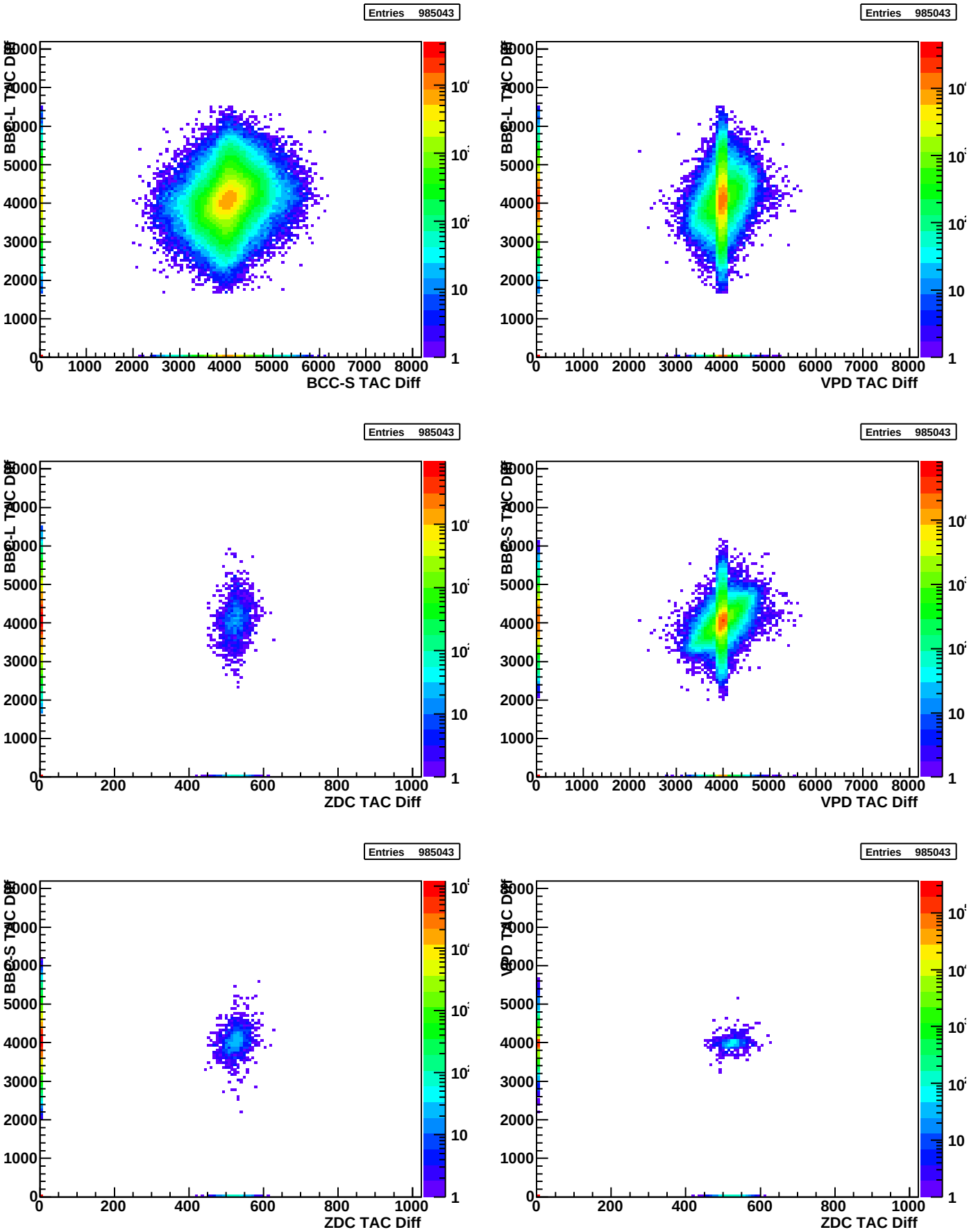
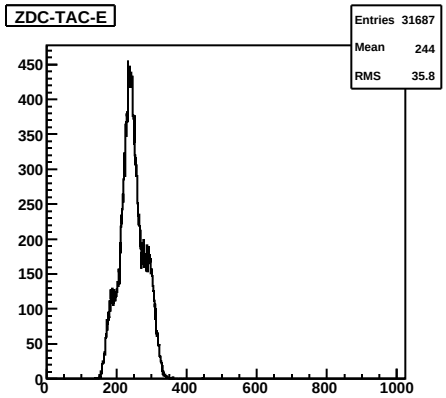
BBC-L-East ADC Sum
BBC-L-West ADC Sum

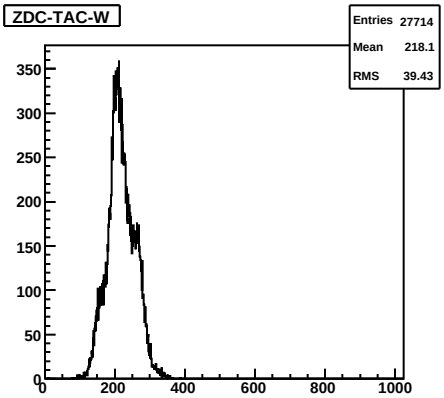

Entries 985043
BBC-S-East ADC Sum
BBC-S-West ADC Sum

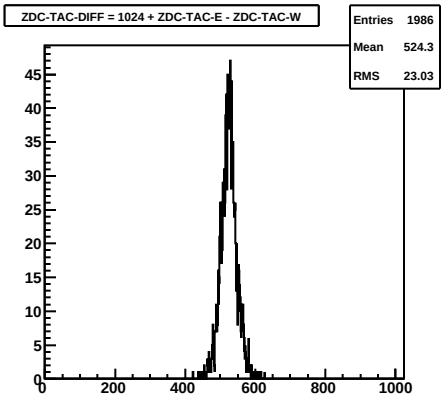

Entries 985043
VPD East ADC Sum
VPD West ADC Sum

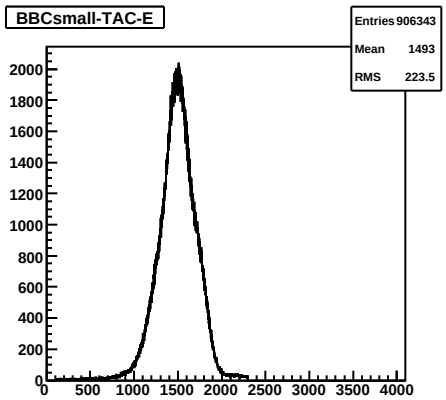

Entries 985043
ZDC East ADC Sum Att
ZDC West ADC Sum Att

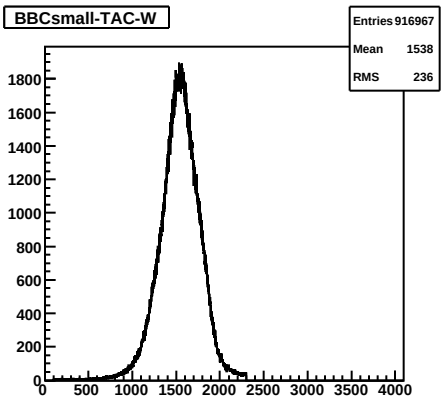

Entries 985043
BBC-L TAC Diff
BCC-S TAC Diff
Entries 985043
BBC-L TAC Diff
VPD TAC Diff
Entries 985043
BBC-L TAC Diff
ZDC TAC Diff
Entries 985043
BBC-S TAC Diff
VPD TAC Diff
Entries 985043
BBC-S TAC Diff
ZDC TAC Diff
Entries 985043
VPD TAC Diff
ZDC TAC Diff

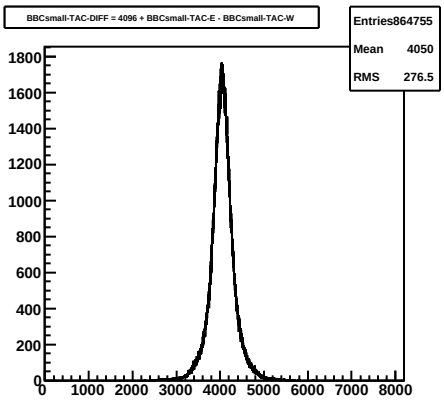

ZDC-TAC-E
Entries 31687
Mean 244
RMS 35.8

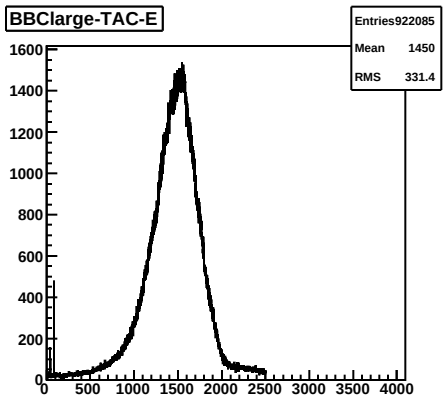

ZDC-TAC-W
Entries 27714
Mean 218.1
RMS 39.43

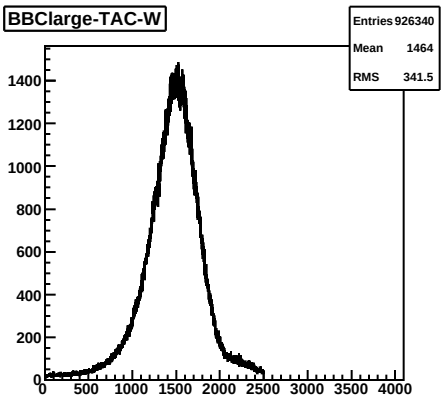

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1986
Mean 524.3
RMS 23.03

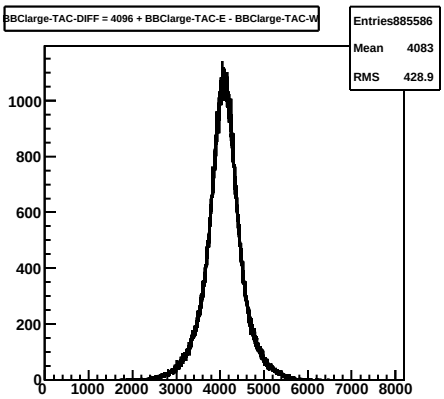

BBCsmall-TAC-E
Entries 906343
Mean 1493
RMS 223.5

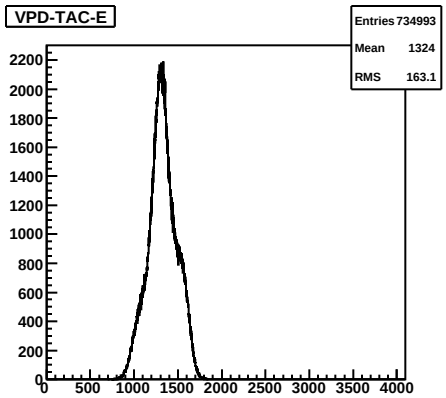

BBCsmall-TAC-W
Entries 916967
Mean 1538
RMS 236

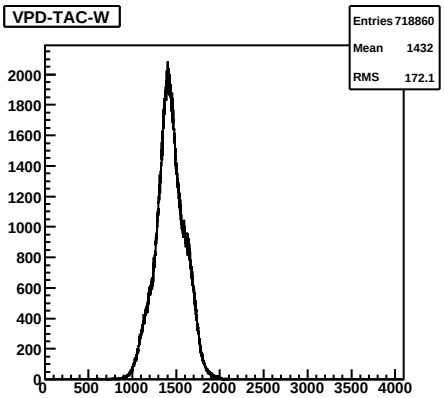

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 864755
Mean 4050
RMS 276.5

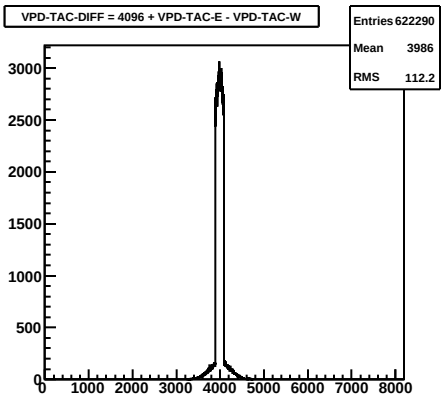

BBClarge-TAC-E
Entries 922085
Mean 1450
RMS 331.4

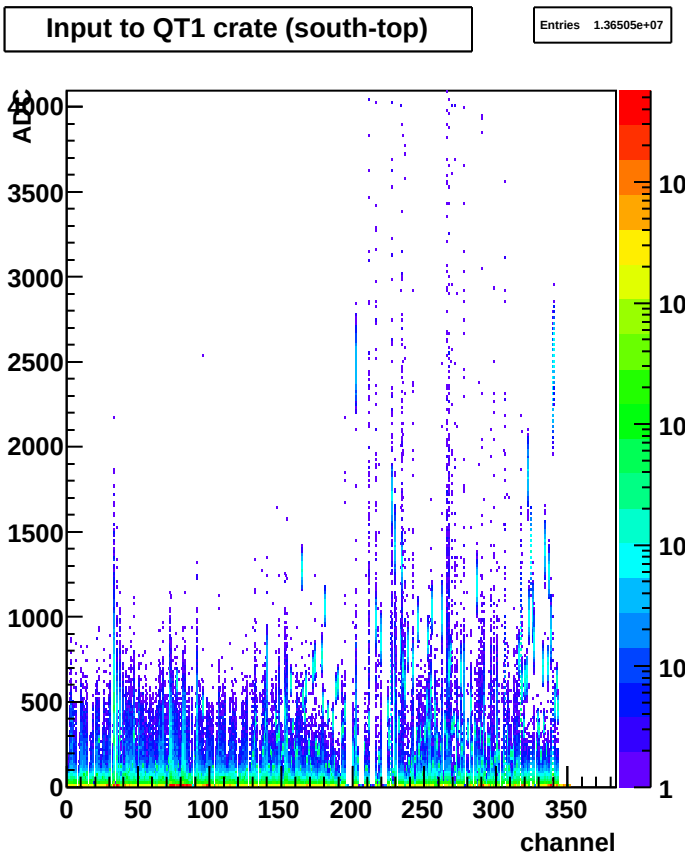

BBClarge-TAC-W
Entries 926340
Mean 1464
RMS 341.5

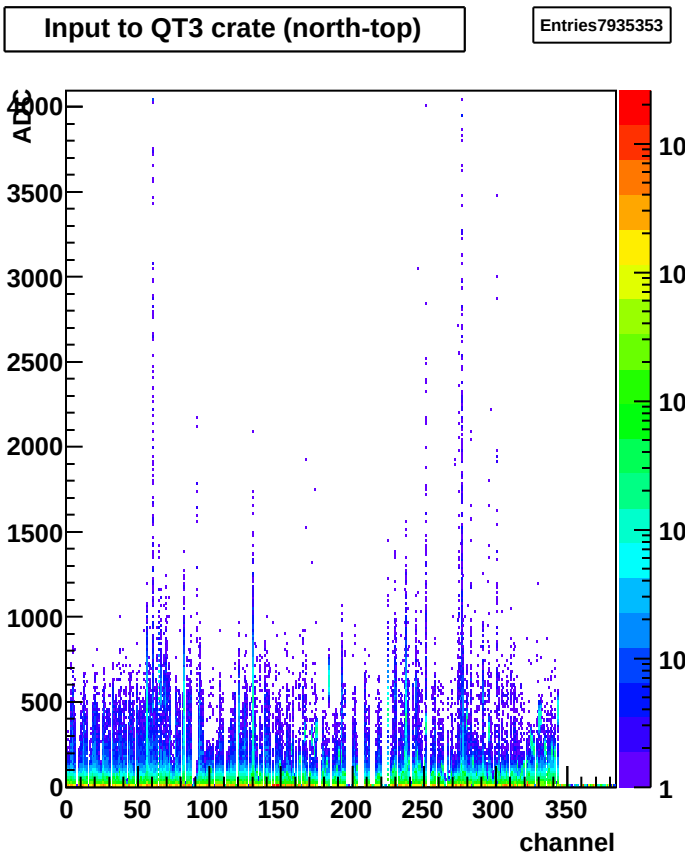

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 885586
Mean 4083
RMS 428.9

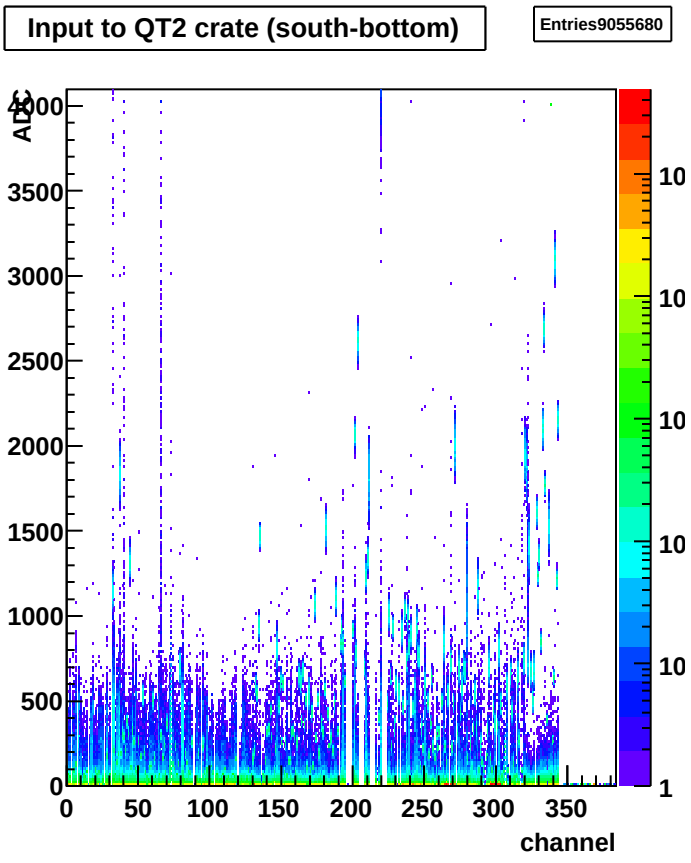

VPD-TAC-E
Entries 734993
Mean 1324
RMS 163.1

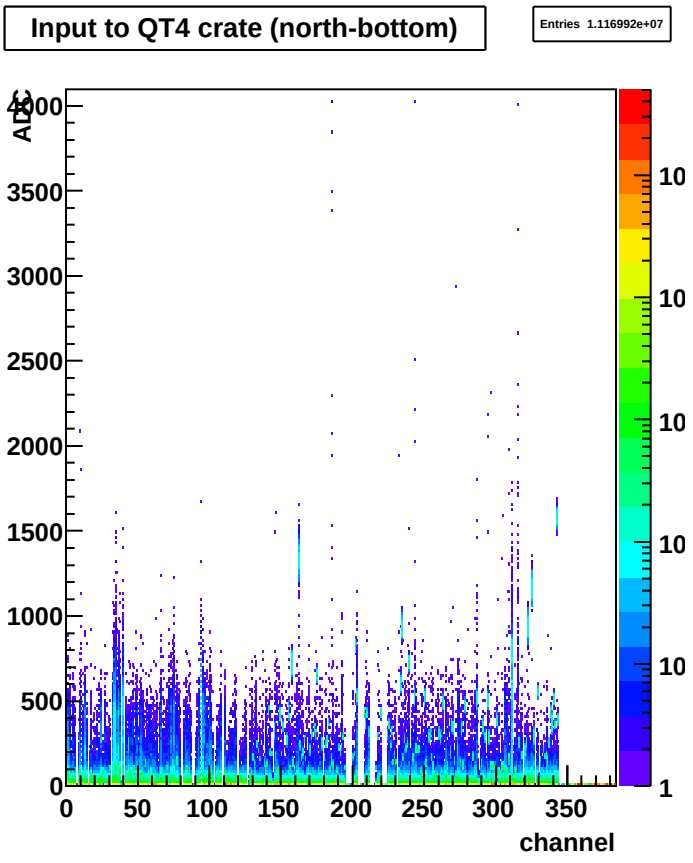

VPD-TAC-W
Entries 718860
Mean 1432
RMS 172.1

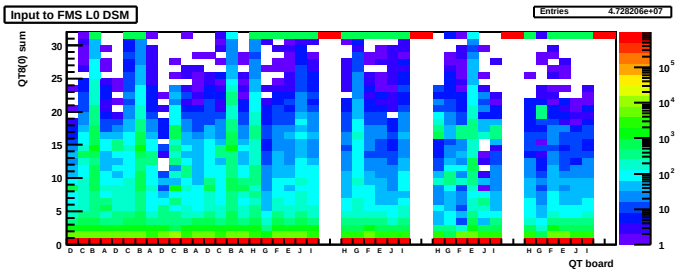

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 622290
Mean 3986
RMS 112.2

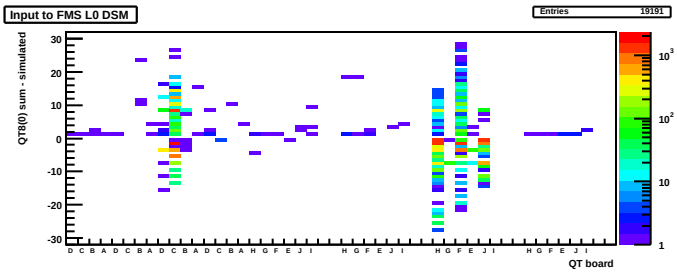

Input to QT1 crate (south-top)
Entries 1.36505e+07
ADC
channel

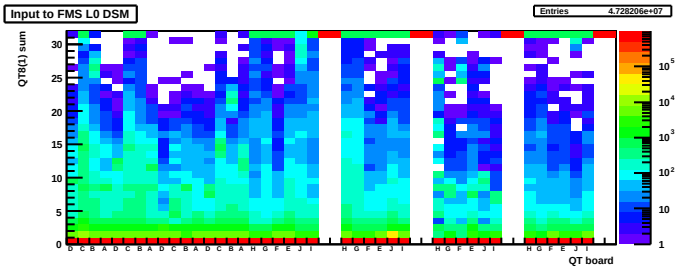

Input to QT3 crate (north-top)
Entries7935353
ADC
channel

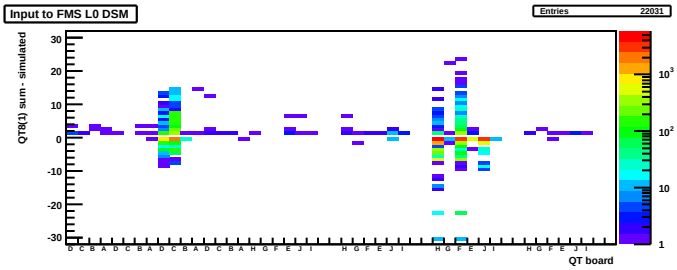

Input to QT2 crate (south-bottom)
Entries9055680
ADC
channel

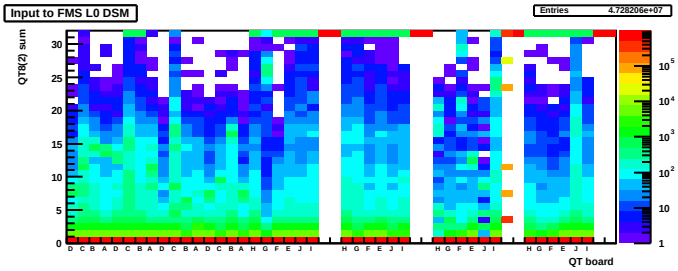

Input to QT4 crate (north-bottom)
Entries 1.116992e+07
ADC
channel

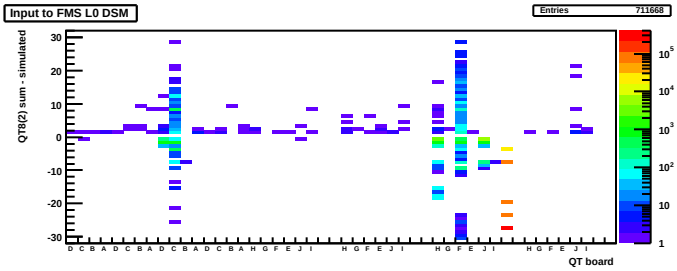

Input to FMS L0 DSM
Entries 4.728206e+07
QT8(0) sum
QT board

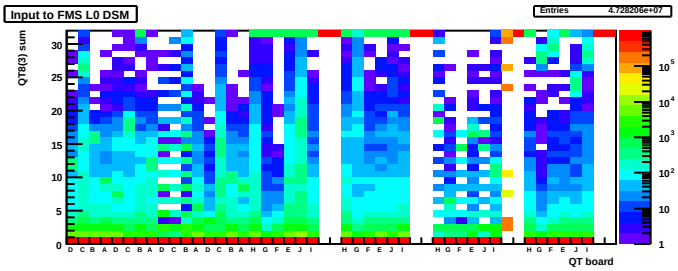

Input to FMS L0 DSM
Entries 19191
QT8(0) sum - simulated
QT board

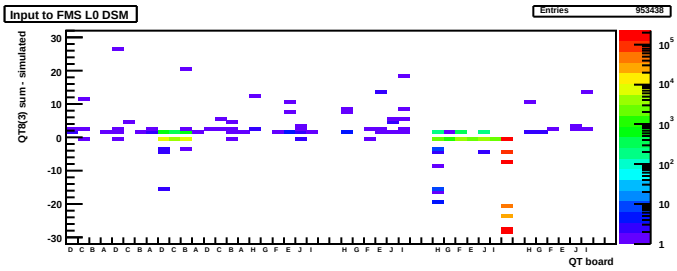

Input to FMS L0 DSM
Entries 4.728206e+07
QT8(1) sum
QT board

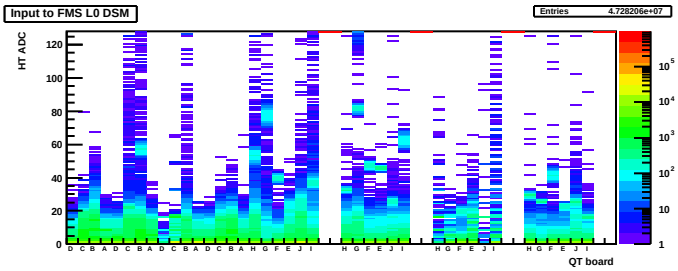

Input to FMS L0 DSM
Entries 22031
QT8(1) sum - simulated
QT board

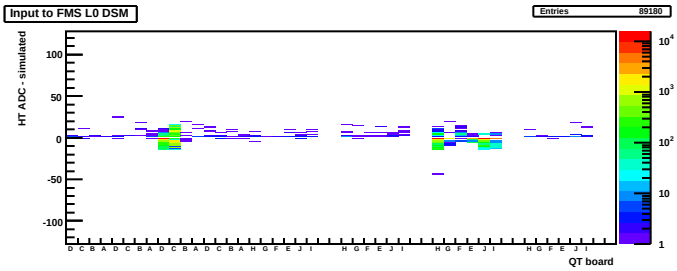

Input to FMS L0 DSM
Entries 4.728206e+07
QT8(2) sum
QT board

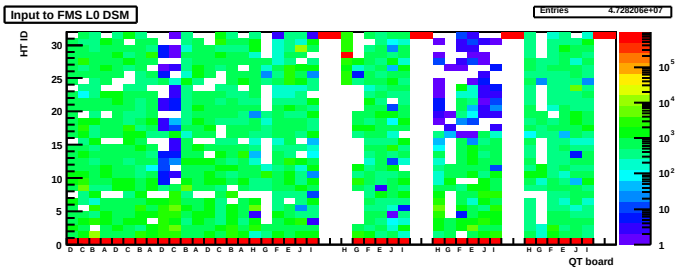

Input to FMS L0 DSM
Entries 711668
QT8(2) sum - simulated
QT board

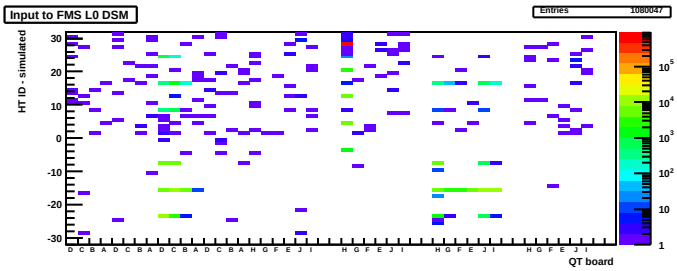

Input to FMS L0 DSM
Entries 4.728206e+07
QT8(3) sum
QT board

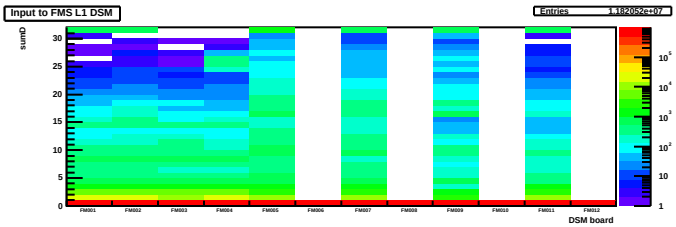

Input to FMS L0 DSM
Entries 953438
QT8(3) sum - simulated
QT board

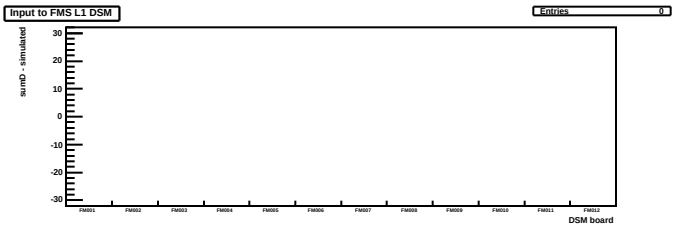

Input to FMS L0 DSM
Entries 4.728206e+07
HT ADC
QT board

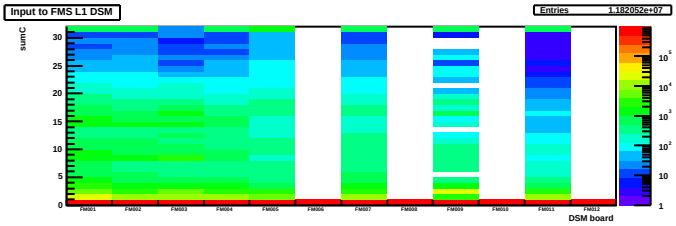

Input to FMS L0 DSM
Entries 89180
HT ADC - simulated
QT board

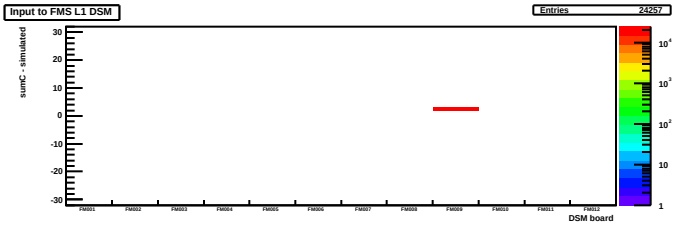

Input to FMS L0 DSM
Entries 4.728206e+07
HT ID
QT board

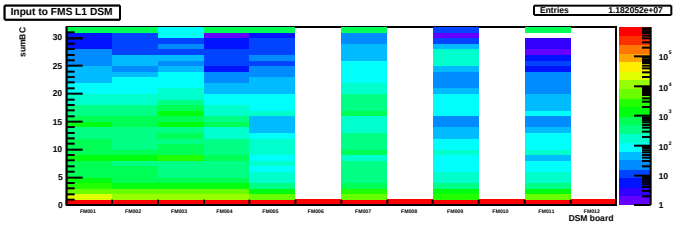

Input to FMS L0 DSM
Entries 1080047
HT ID - simulated
QT board

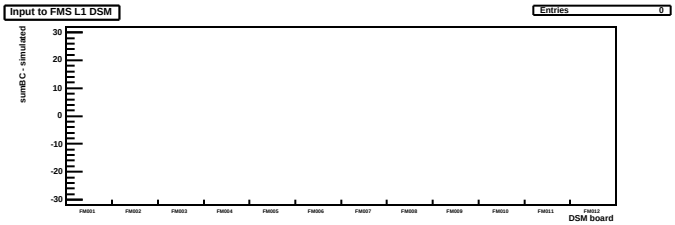

Input to FMS L1 DSM
Entries 1.182052e+07
sumD
DSM board

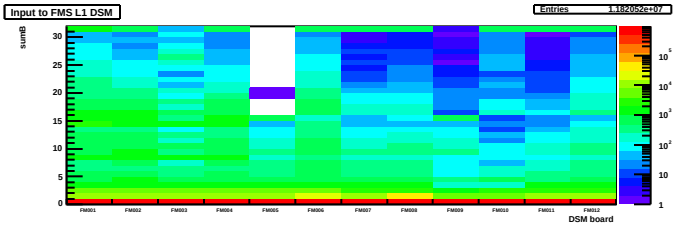

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

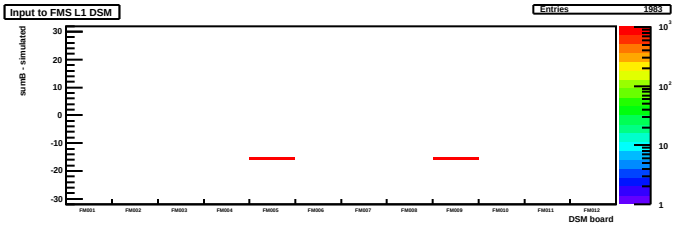

Input to FMS L1 DSM
Entries 1.182052e+07
sumC
DSM board

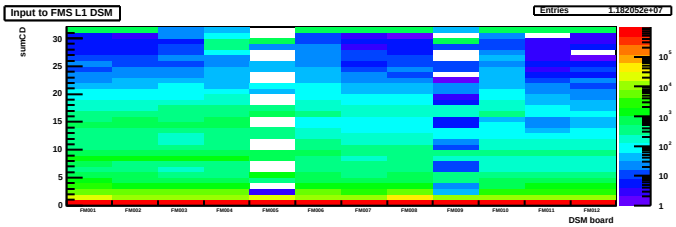

Input to FMS L1 DSM
Entries 24257
sumC - simulated
DSM board

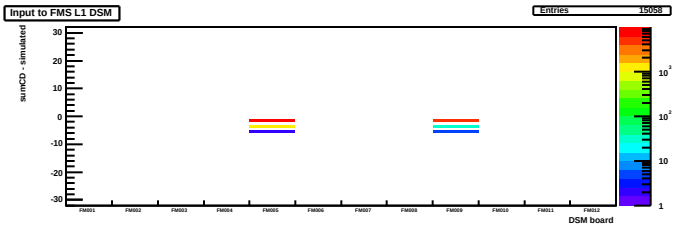

Input to FMS L1 DSM
Entries 1.182052e+07
sumBC
DSM board

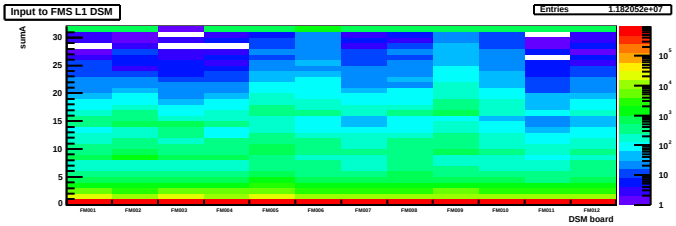

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

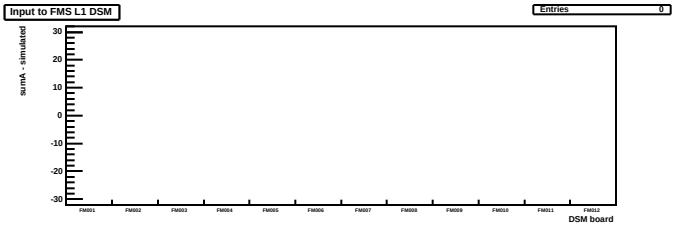

Input to FMS L1 DSM
Entries 1.182052e+07
sumB
DSM board

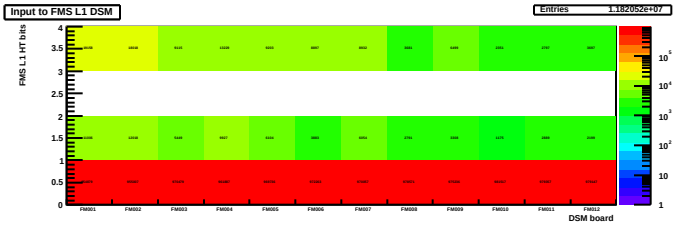

Input to FMS L1 DSM
Entries 1983
sumB - simulated
DSM board

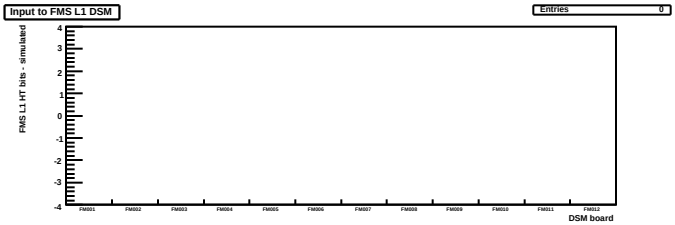

Input to FMS L1 DSM
Entries 1.182052e+07
sumCD
DSM board

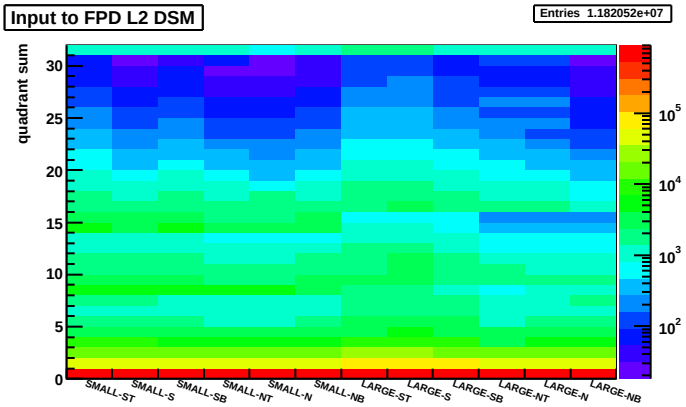

Input to FMS L1 DSM
Entries 15058
sumCD - simulated
DSM board

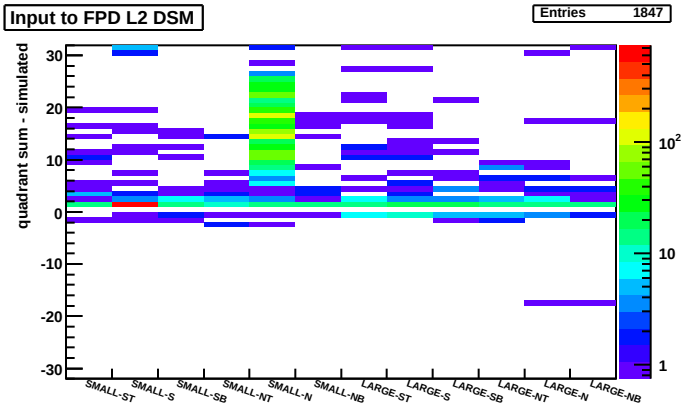

Input to FMS L1 DSM
Entries 1.182052e+07
sumA
DSM board

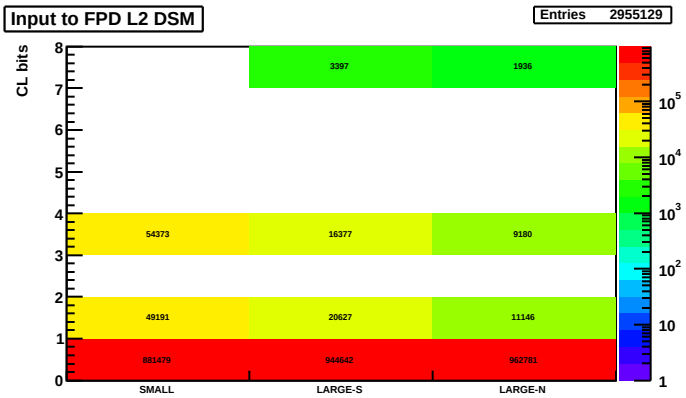

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

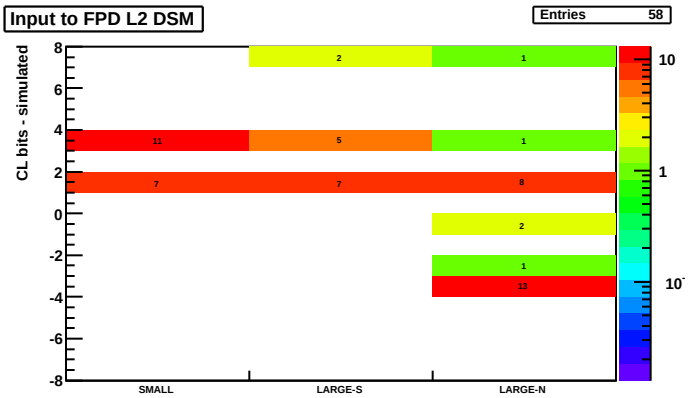

Input to FMS L1 DSM
Entries 1.182052e+07
FMS L1 HT bits
DSM board

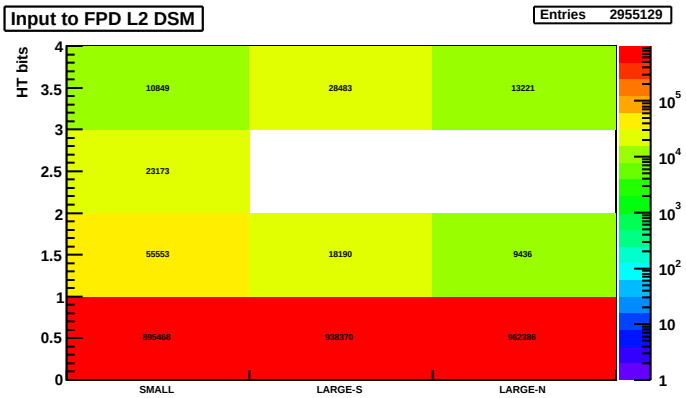

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

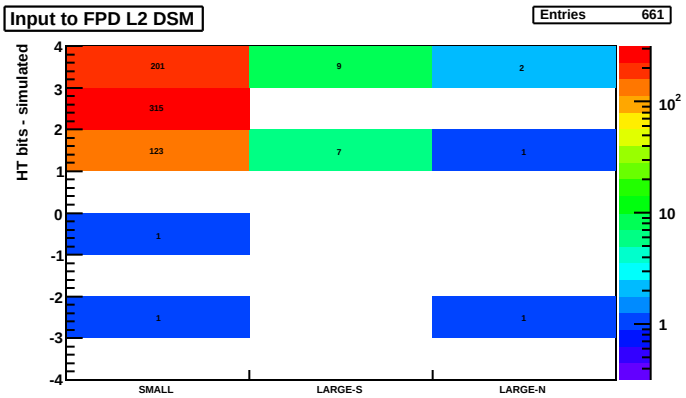

Input to FPD L2 DSM
Entries 1.182052e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

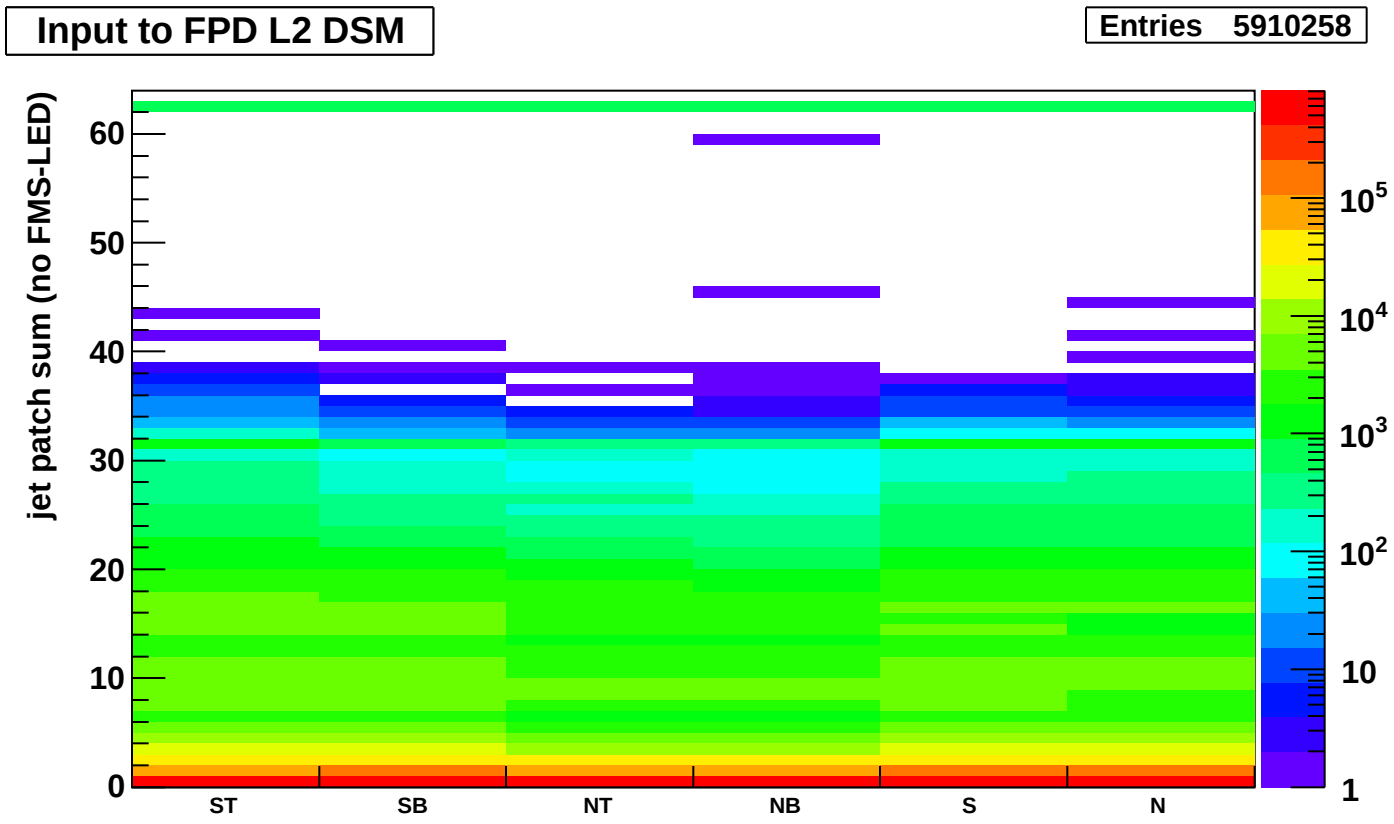

Input to FPD L2 DSM
Entries 1847
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

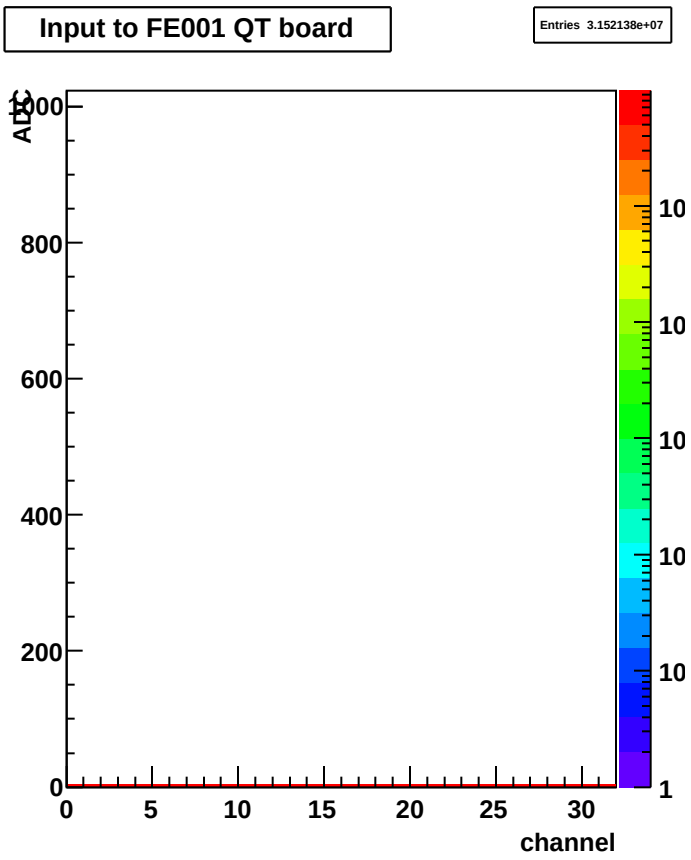

Input to FPD L2 DSM
Entries 2955129
CL bits
3397
1936
54373
16377
9180
49191
20627
11146
881479
944642
962781
SMALL
LARGE-S
LARGE-N

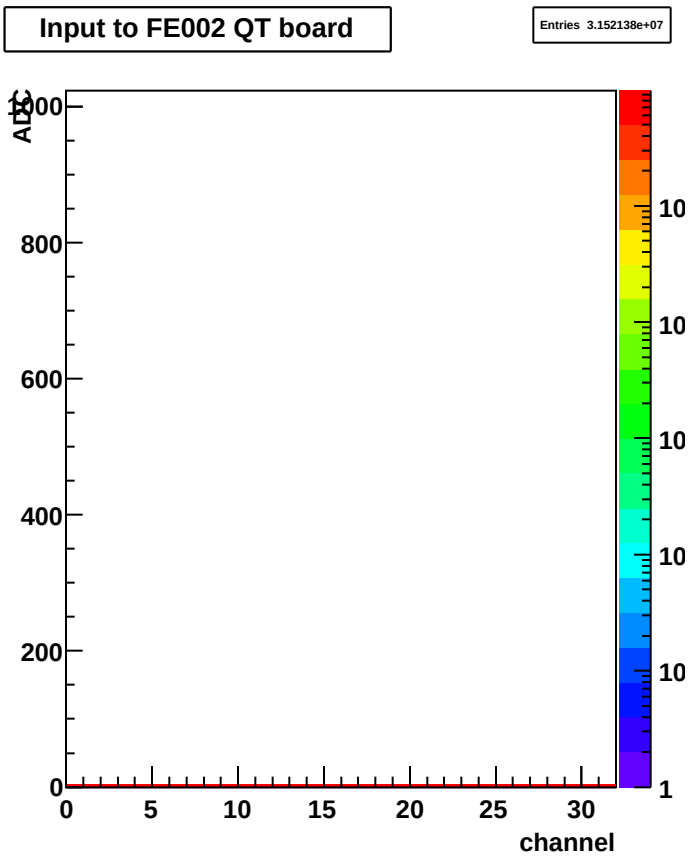

Input to FPD L2 DSM
Entries 58
CL bits - simulated
2
1
11
5
1
7
7
8
2
1
13
SMALL
LARGE-S
LARGE-N

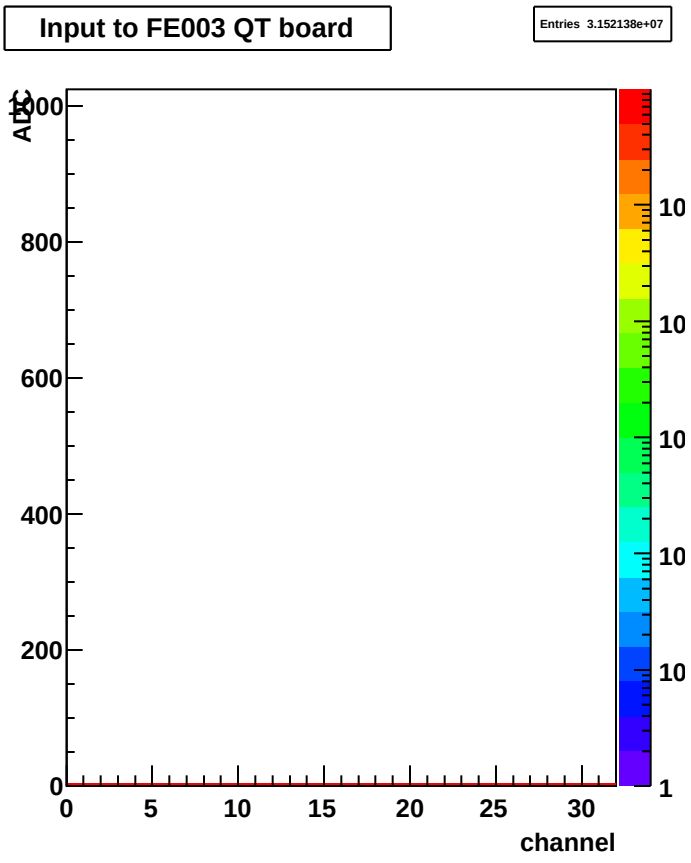

Input to FPD L2 DSM
Entries 2955129
HT bits
10849
28483
13221
23173
55553
18190
9436
895468
938370
962386
SMALL
LARGE-S
LARGE-N

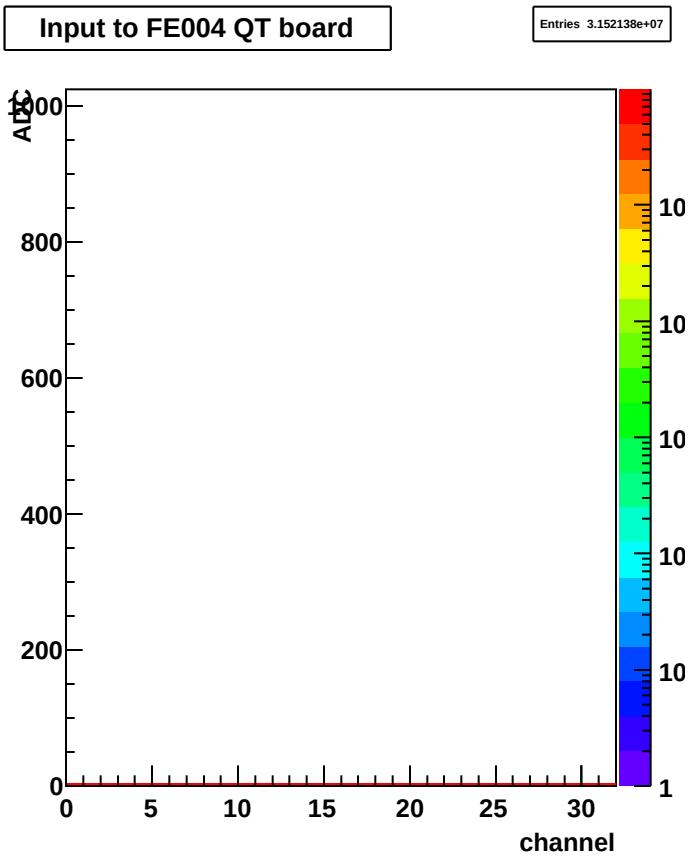

Input to FPD L2 DSM
Entries 661
HT bits - simulated
201
9
2
315
123
7
1
1
1
1
SMALL
LARGE-S
LARGE-N

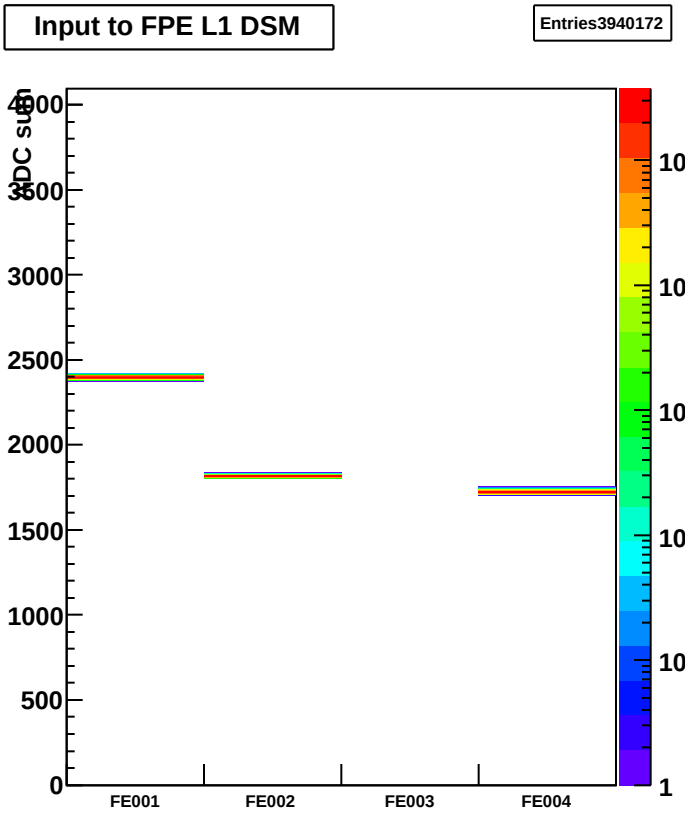

Input to FPD L2 DSM
Entries 5910258
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

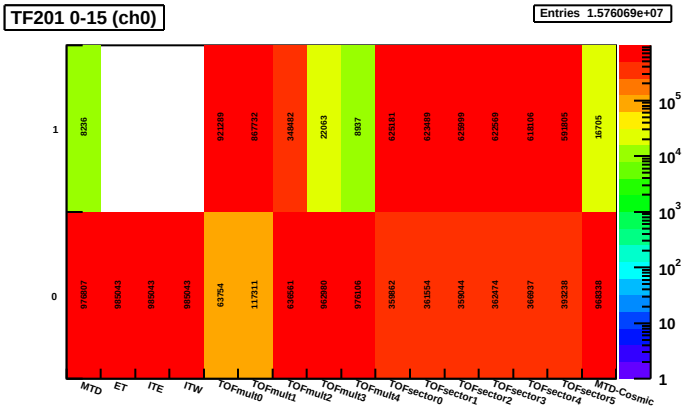

Input to FE001 QT board
Entries 3.152138e+07
ADC
channel

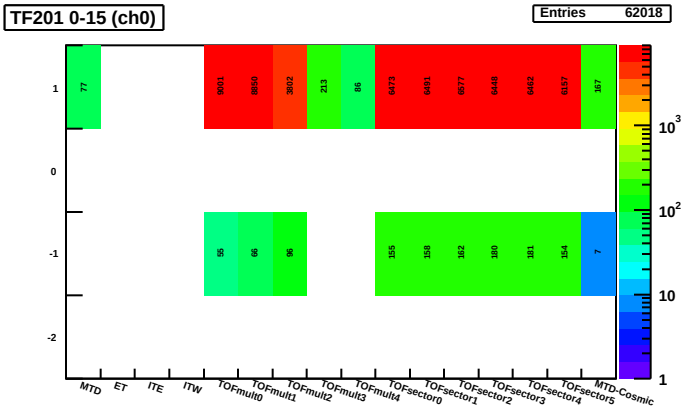

Input to FE002 QT board
Entries 3.152138e+07
ADC
channel

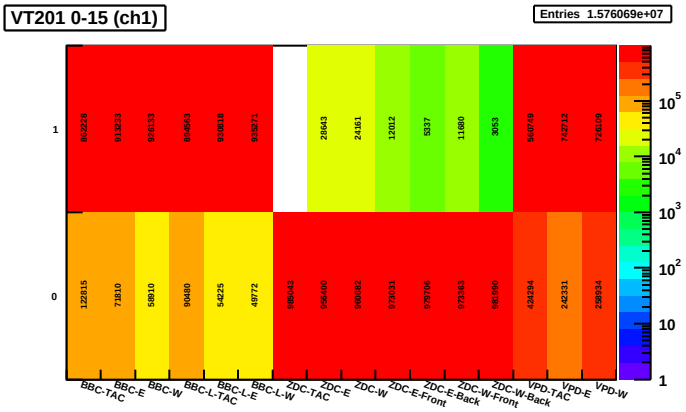

Input to FE003 QT board
Entries 3.152138e+07
ADC
channel


Input to FE004 QT board
Entries 3.152138e+07
ADC
channel


Input to FPE L1 DSM
Entries3940172
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 1.576069e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 62018
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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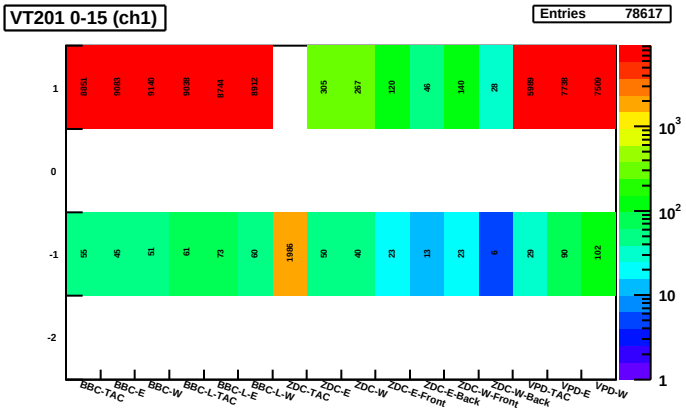
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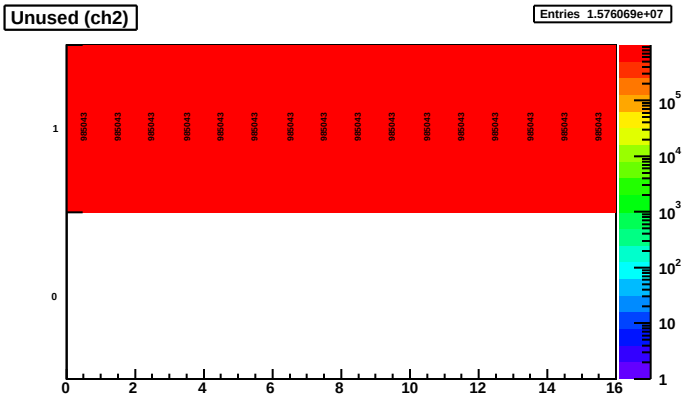
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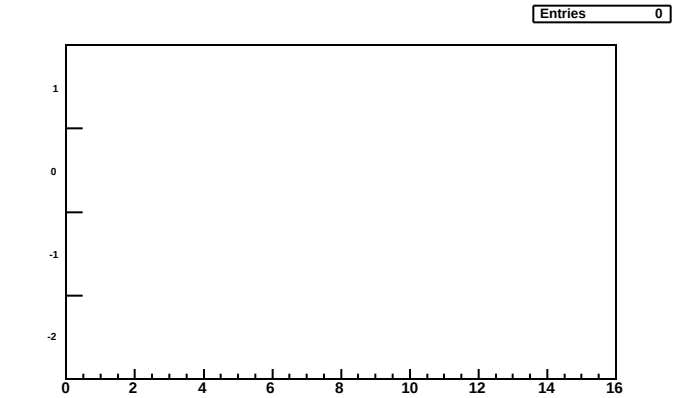
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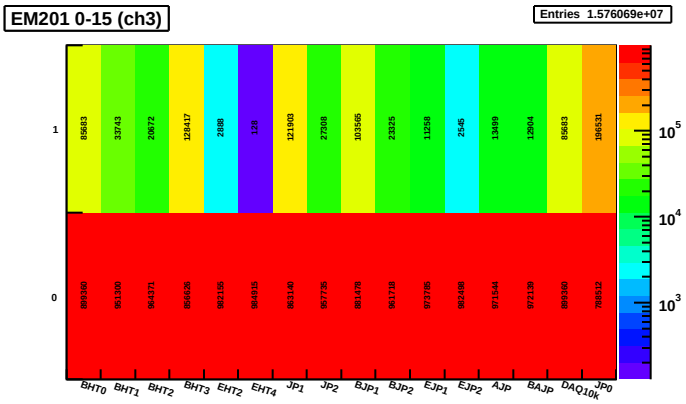
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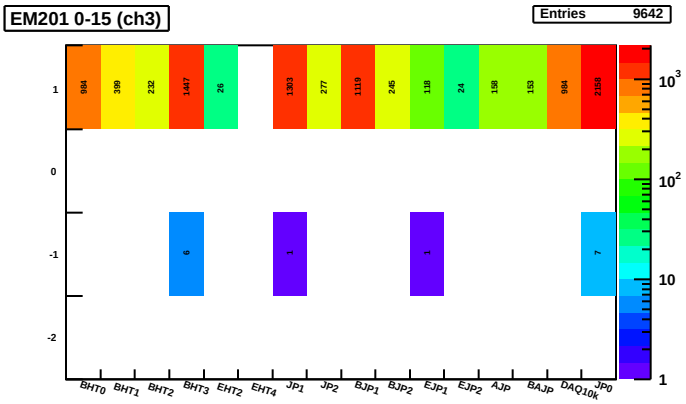
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Entries 9642
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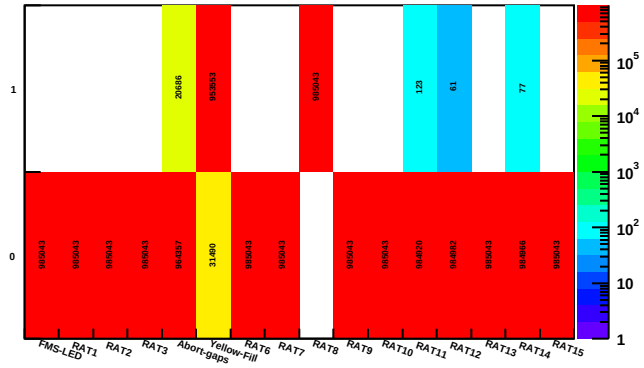
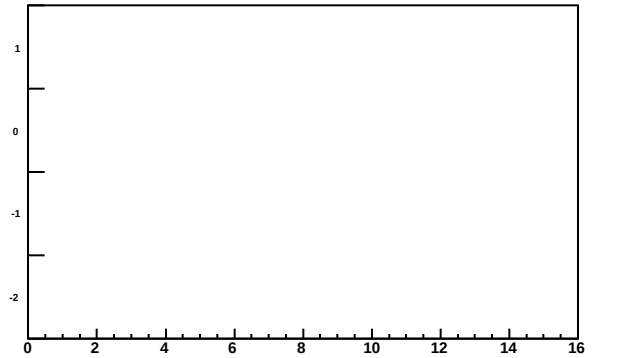
RAT board (ch4)





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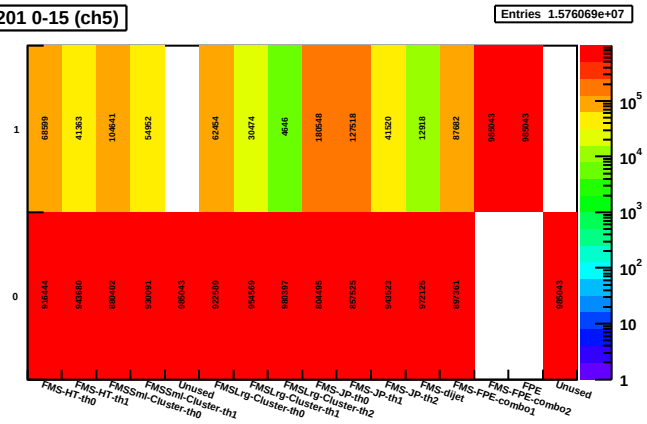

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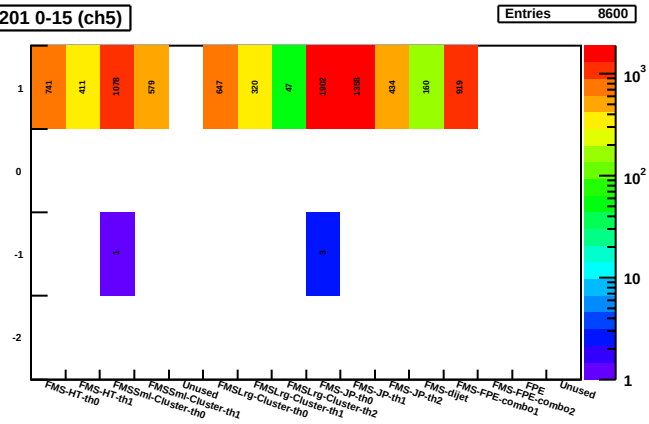
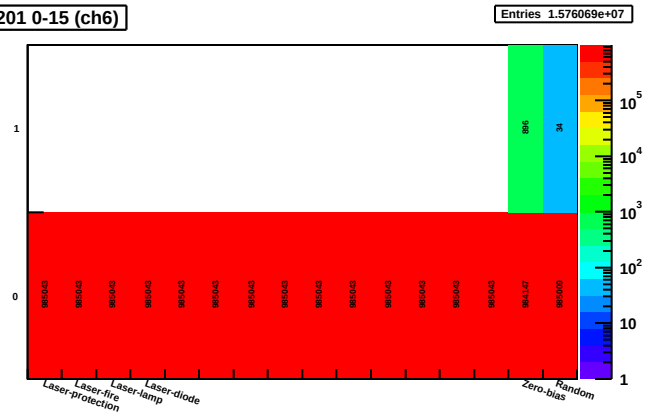
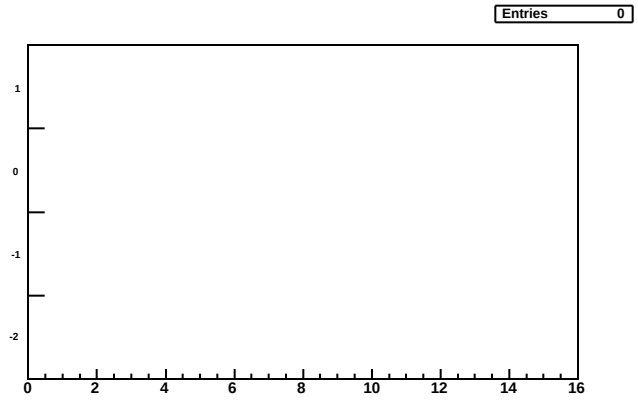
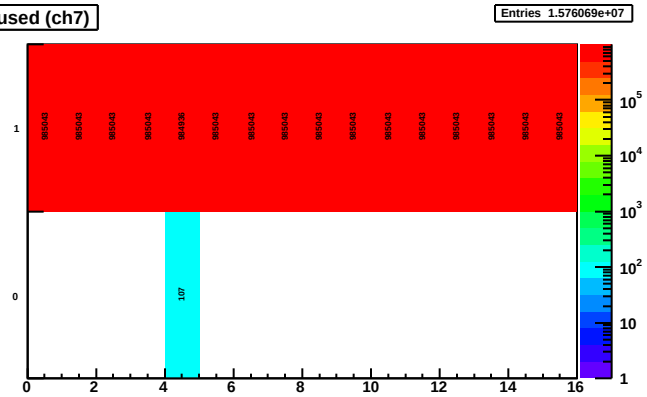
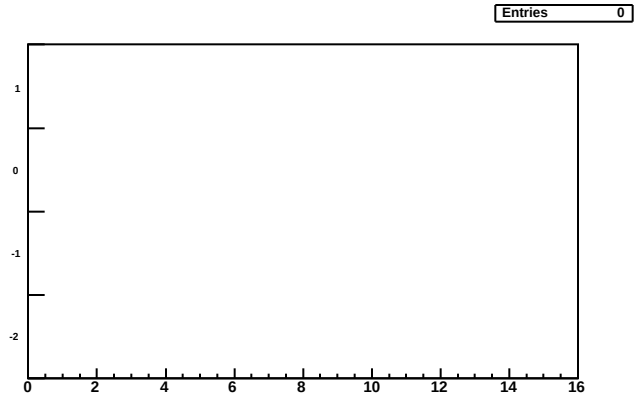


ST201 0-15 (ch6)





Unused (ch7)