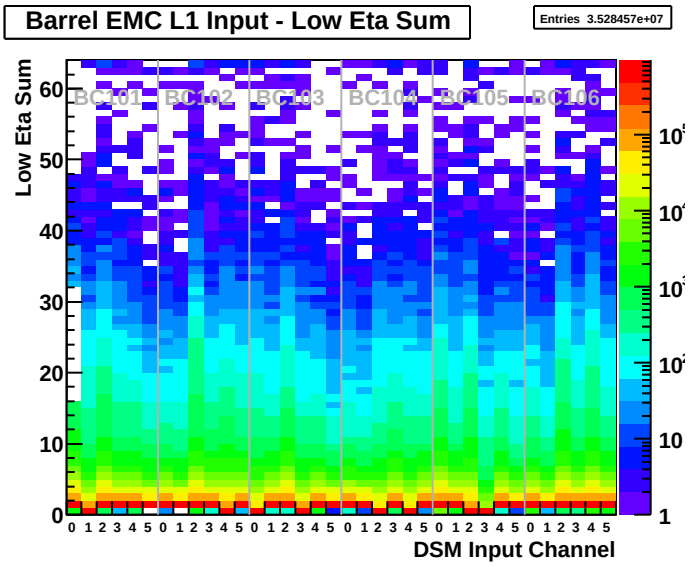
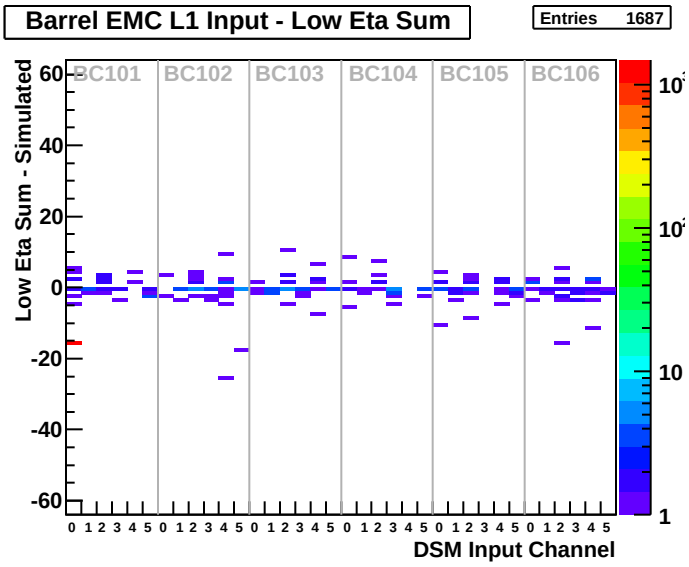
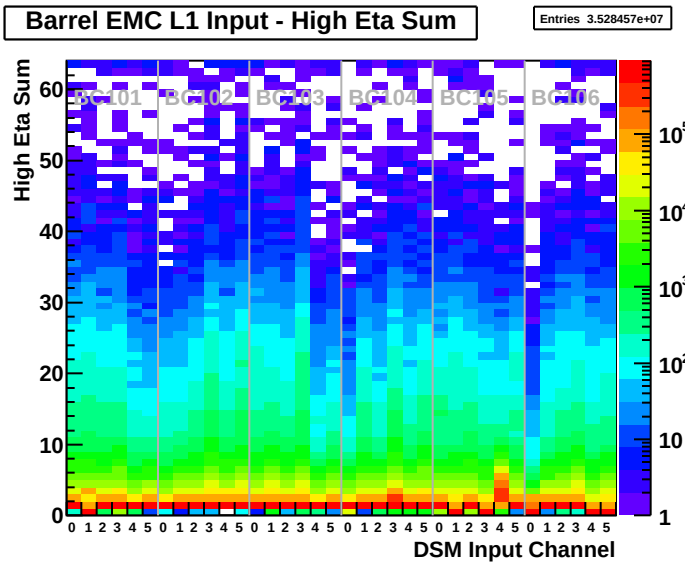
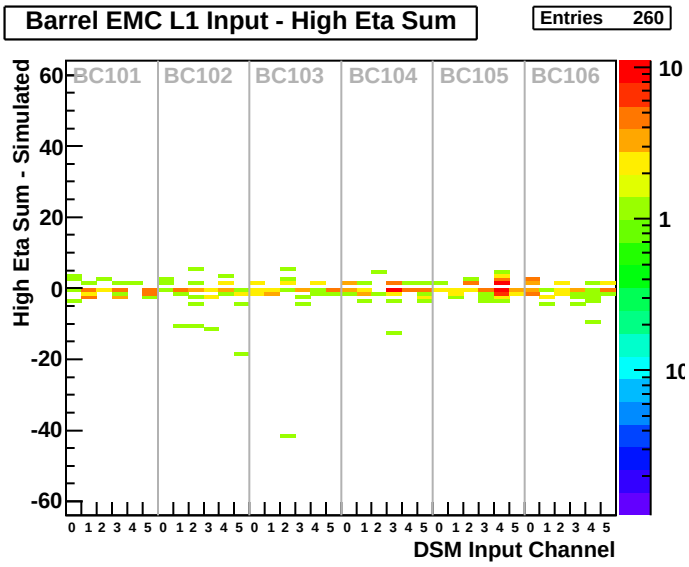
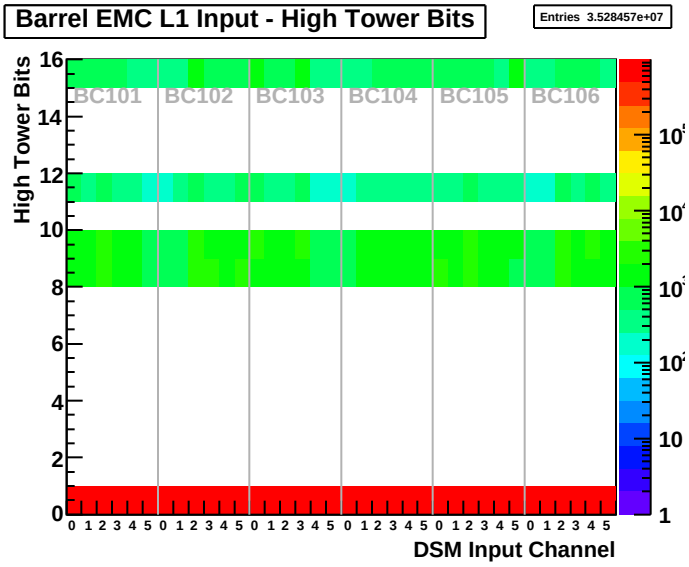
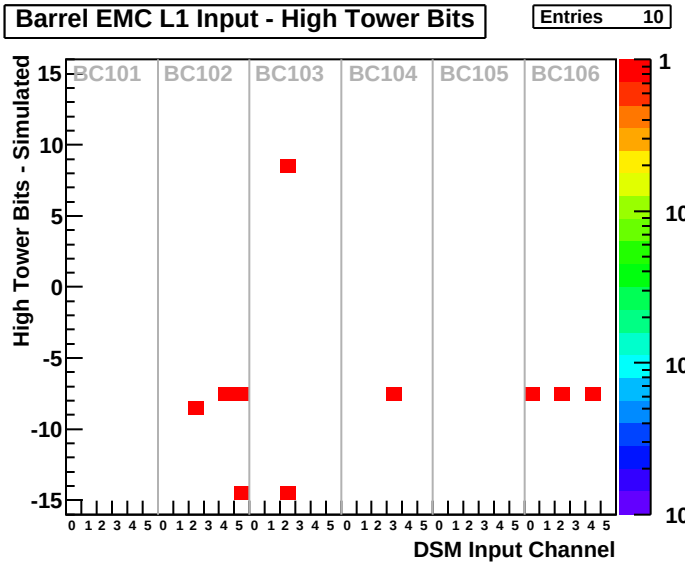

Barrel EMC L1 Input - Low Eta Sum
Entries 3.528457e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

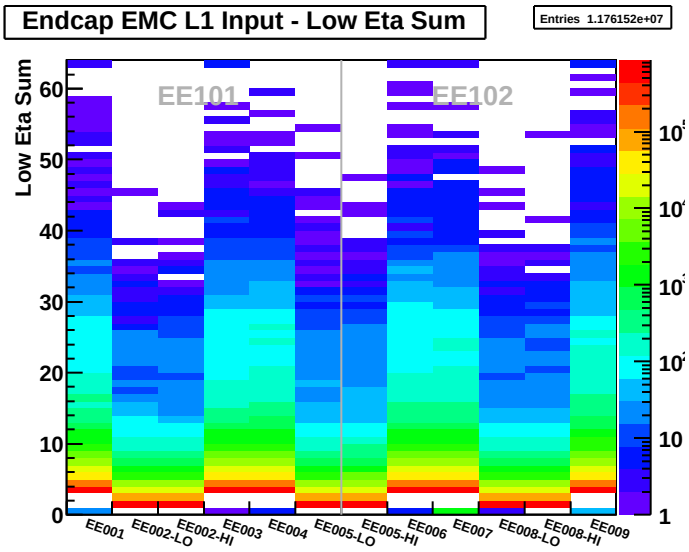

Barrel EMC L1 Input - Low Eta Sum
Entries 1687
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

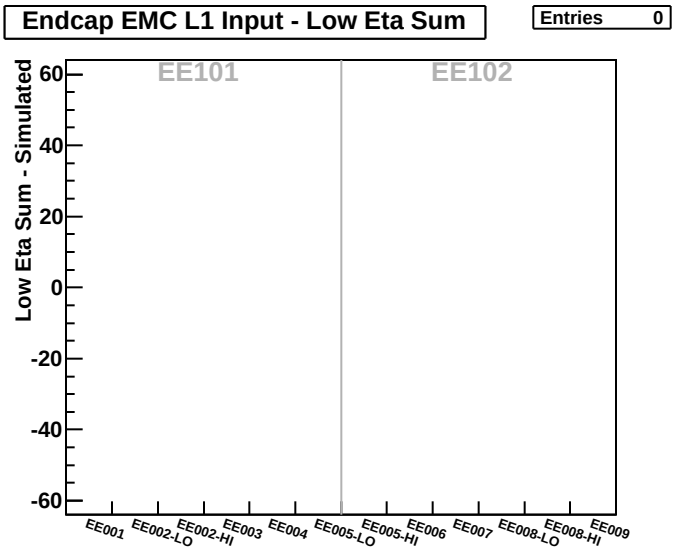

Barrel EMC L1 Input - High Eta Sum
Entries 3.528457e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

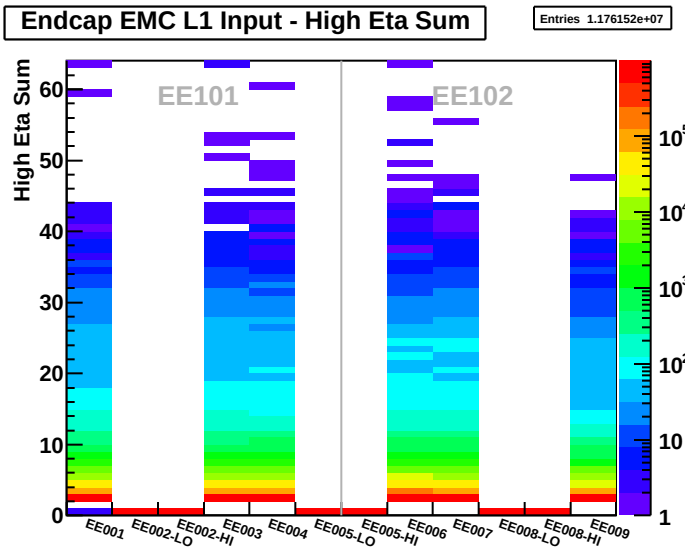

Barrel EMC L1 Input - High Eta Sum
Entries 260
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

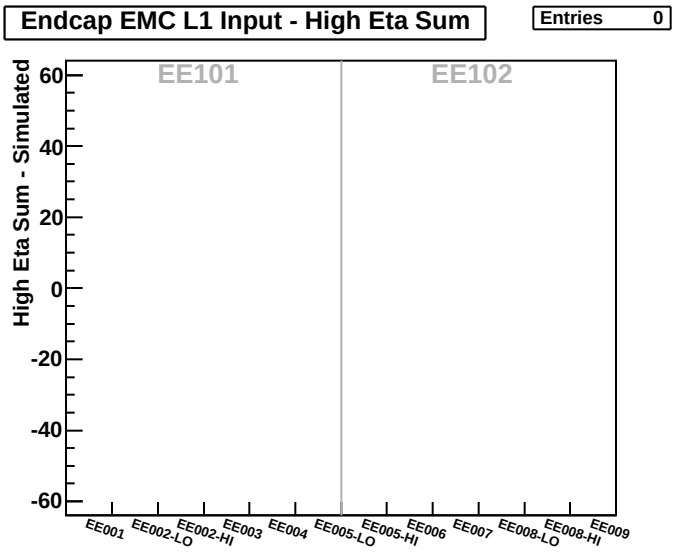

Barrel EMC L1 Input - High Tower Bits
Entries 3.528457e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

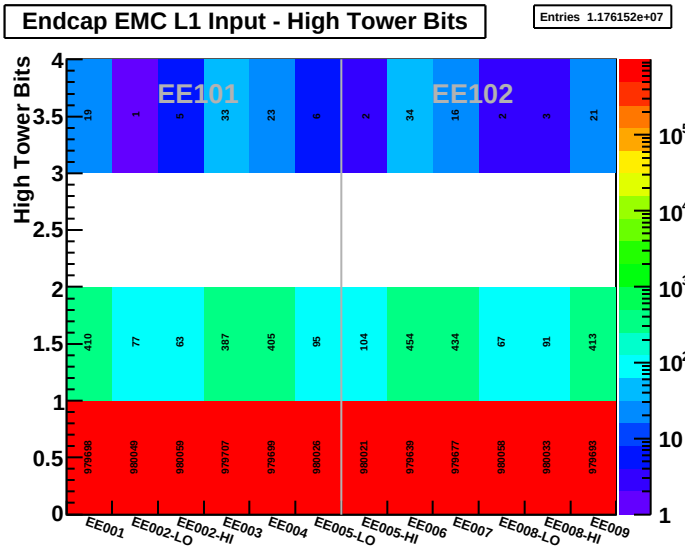

Barrel EMC L1 Input - High Tower Bits
Entries 10
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

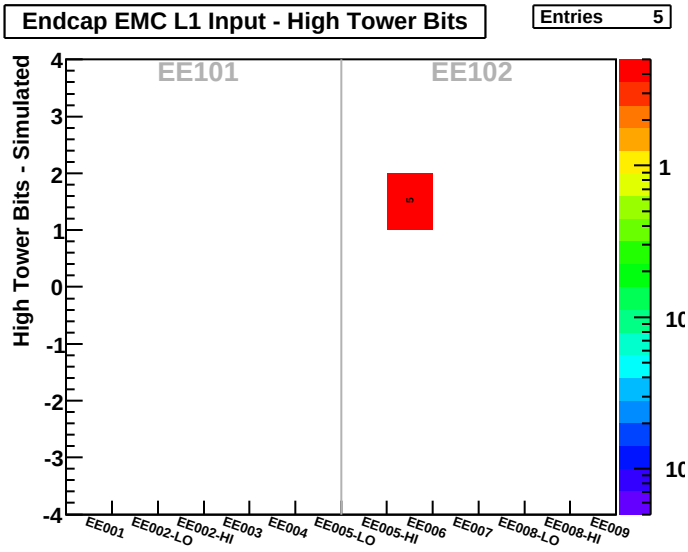

Endcap EMC L1 Input - Low Eta Sum
Entries 1.176152e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

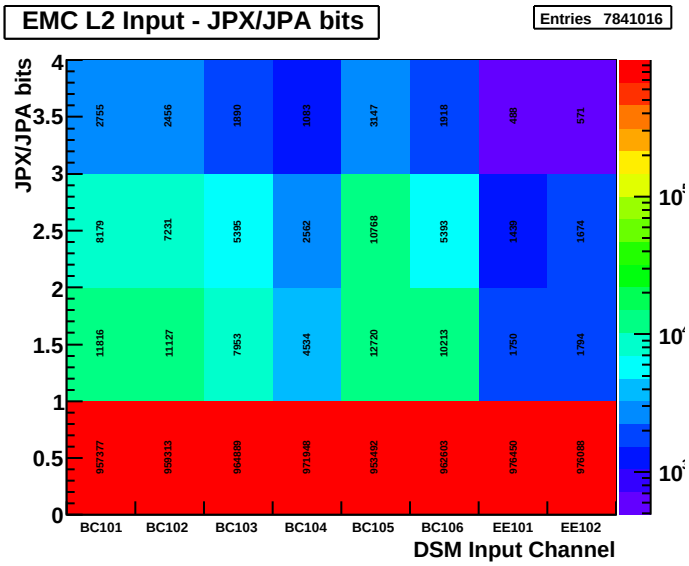

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

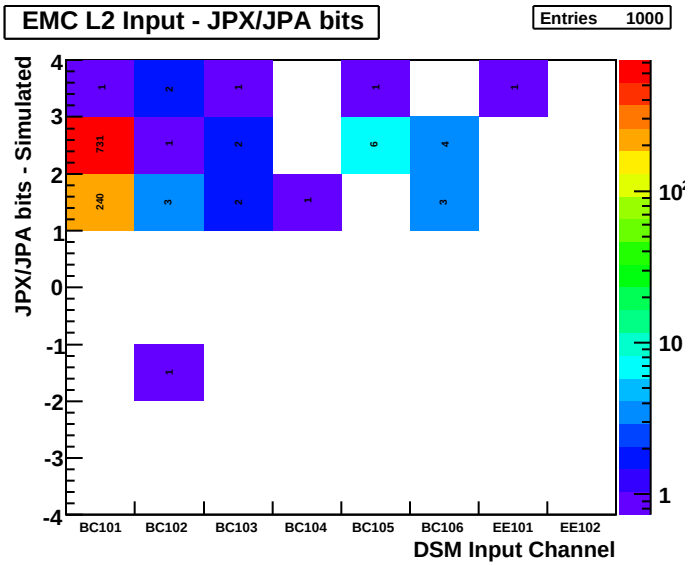

Endcap EMC L1 Input - High Eta Sum
Entries 1.176152e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

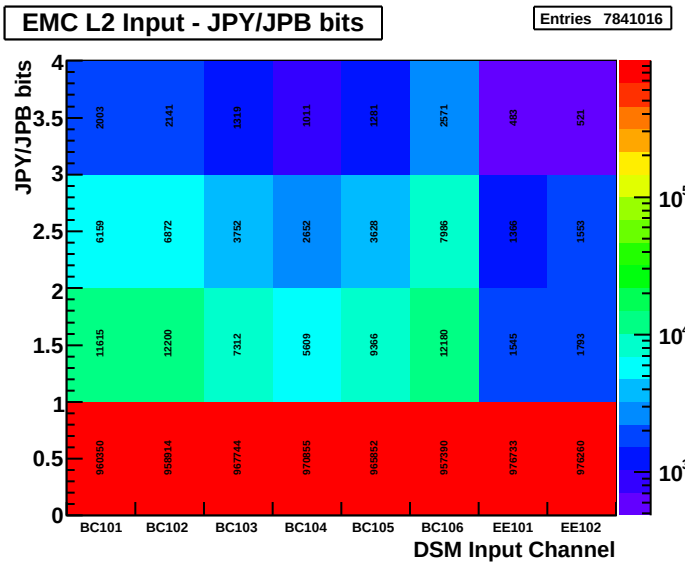

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

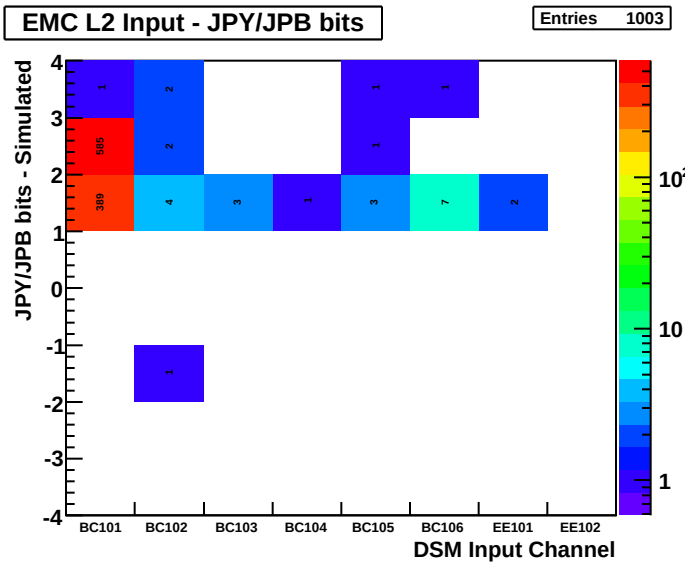

Endcap EMC L1 Input - High Tower Bits
Entries 1.176152e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

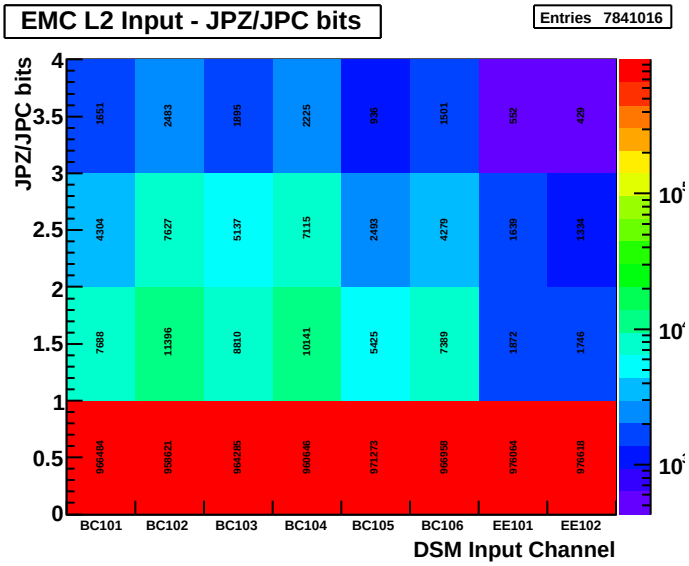

Endcap EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

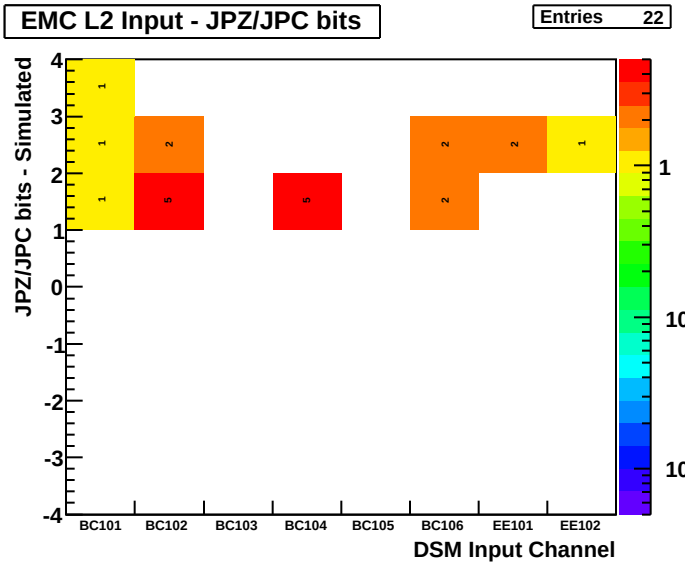

EMC L2 Input - JPX/JPA bits
Entries 7841016
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2755 2456 1890 1083 3147 1918 488 571
8179 7231 5395 2562 10768 5393 1439 1674
11816 11127 7953 4534 12720 10213 1750 1794
957377 953313 964889 971948 953492 962603 976450 976088

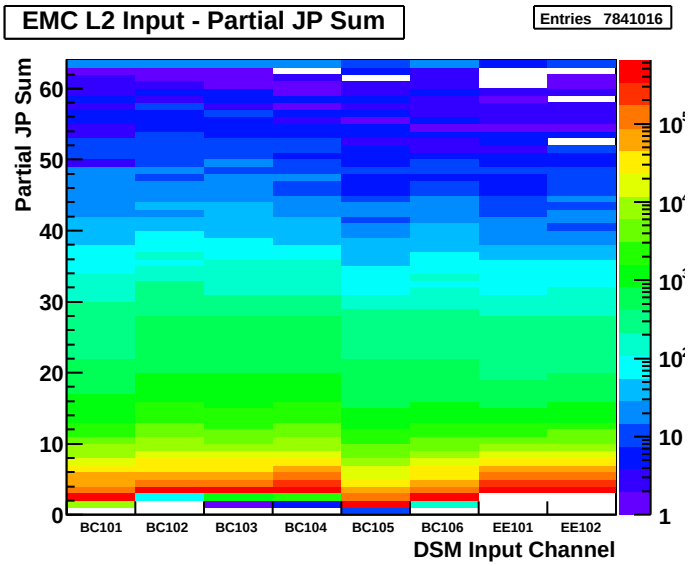

EMC L2 Input - JPX/JPA bits
Entries 1000
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 2 1 1 1
731 1 2 6 4
240 3 2 1 3
1

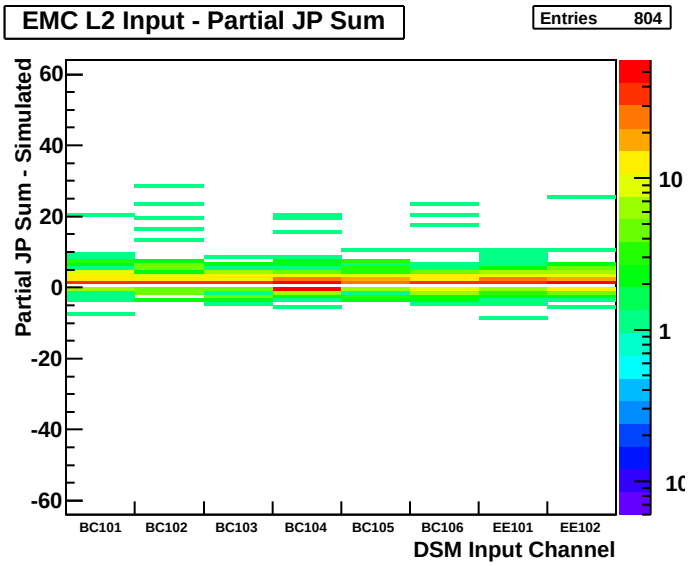

EMC L2 Input - JPY/JPB bits
Entries 7841016
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2003 2141 1319 1011 1281 2571 483 521
6159 6872 3752 2652 3628 7986 1366 1563
11615 12200 7312 5609 9366 12180 1545 1733
960350 950314 967744 970855 963952 957390 976733 976260

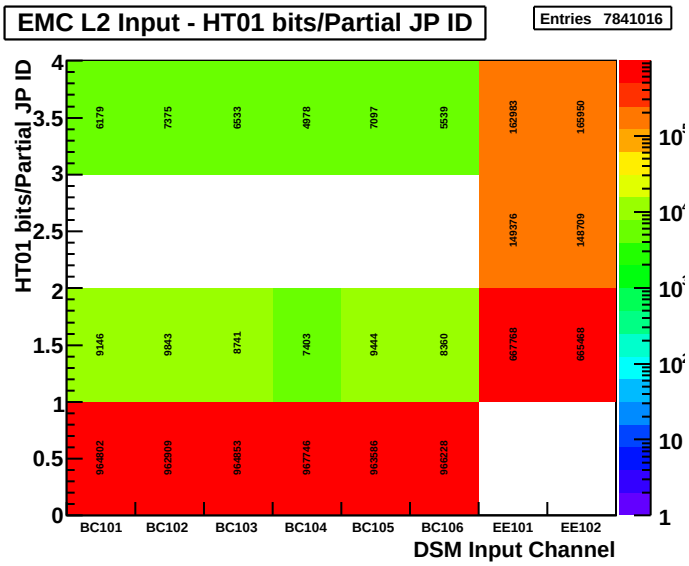

EMC L2 Input - JPY/JPB bits
Entries 1003
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 2 1 1
585 2 1
389 4 3 1 3 7 2
1

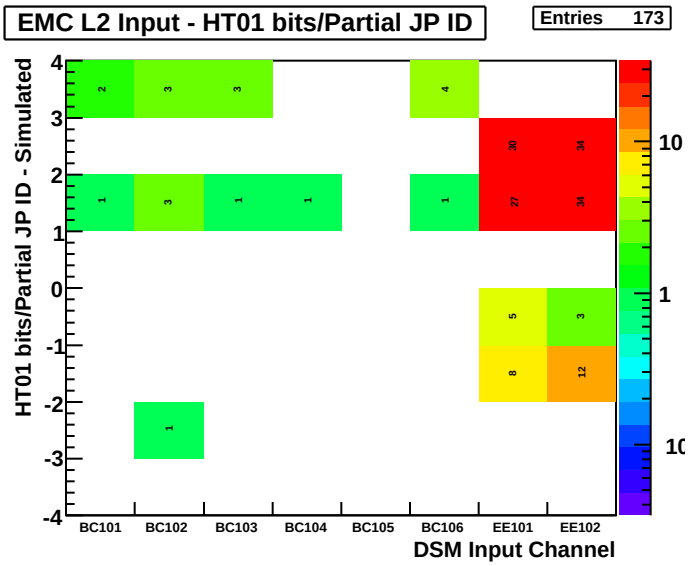

EMC L2 Input - JPZ/JPC bits
Entries 7841016
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1651 2483 1095 2225 936 1501 552 429
4304 7627 5137 7115 2493 4279 1639 1334
7688 11396 8810 10141 5425 7389 1872 1746
966484 958621 964285 960846 971273 966958 976064 976618

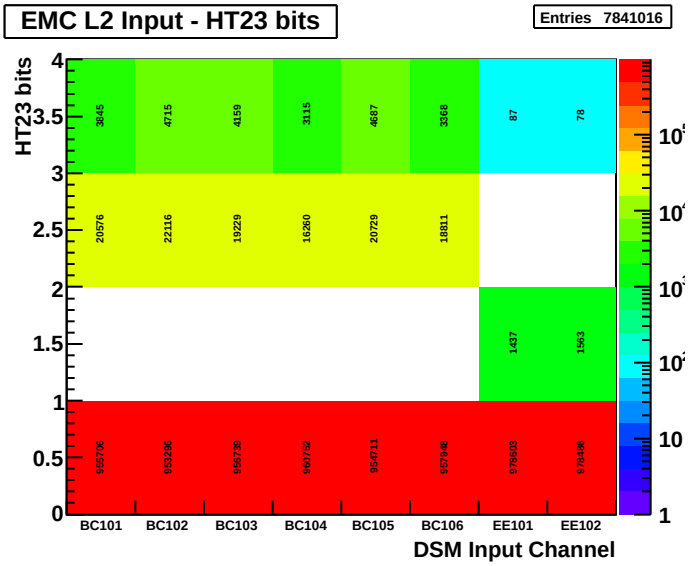

EMC L2 Input - JPZ/JPC bits
Entries 22
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 2 2 1
1 5 5 2

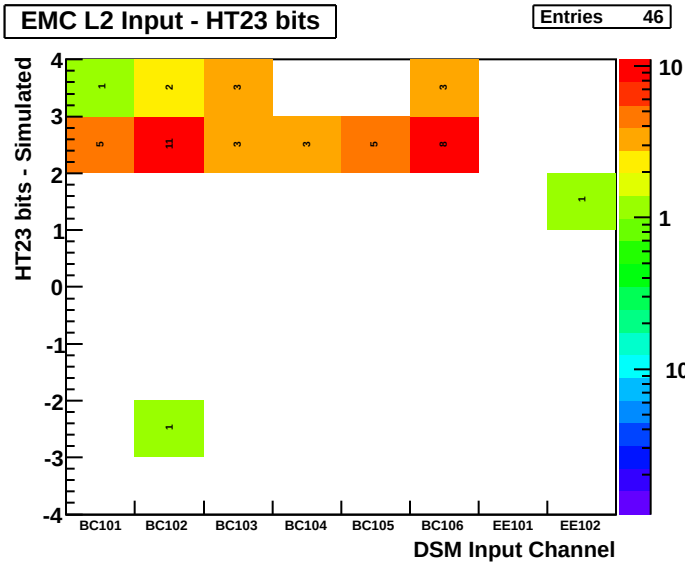

EMC L2 Input - Partial JP Sum
Entries 7841016
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

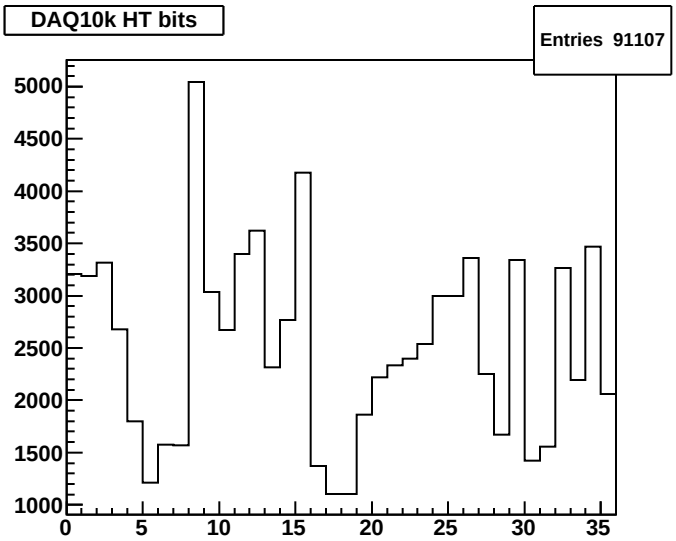

EMC L2 Input - Partial JP Sum
Entries 804
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

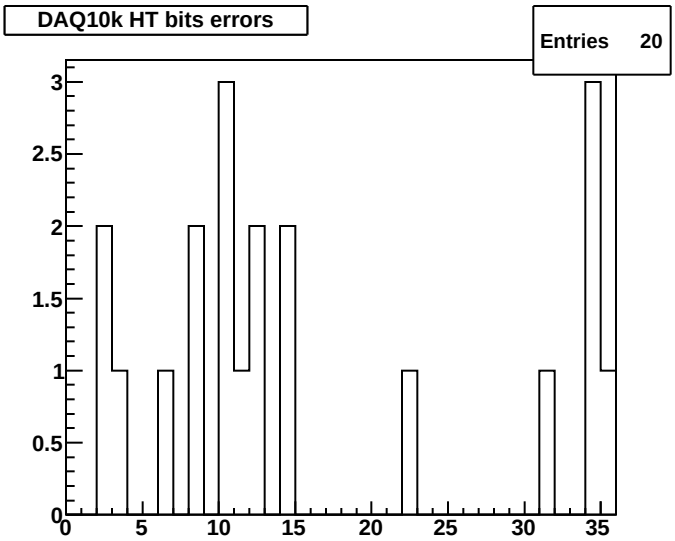

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7841016
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

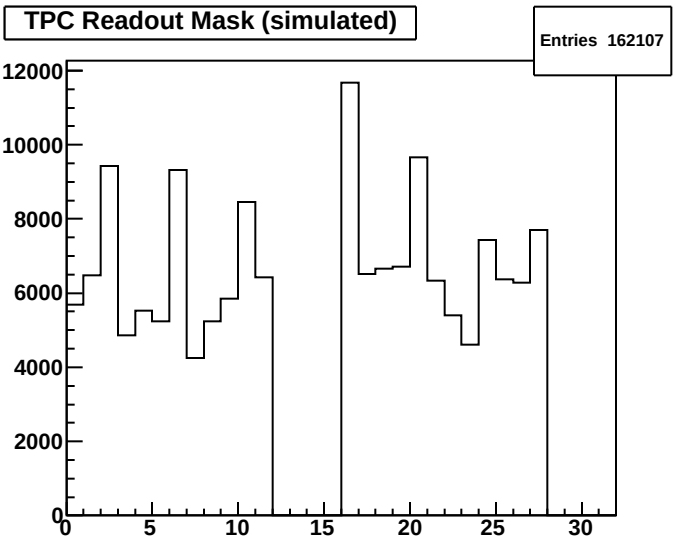

EMC L2 Input - HT01 bits/Partial JP ID
Entries 173
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

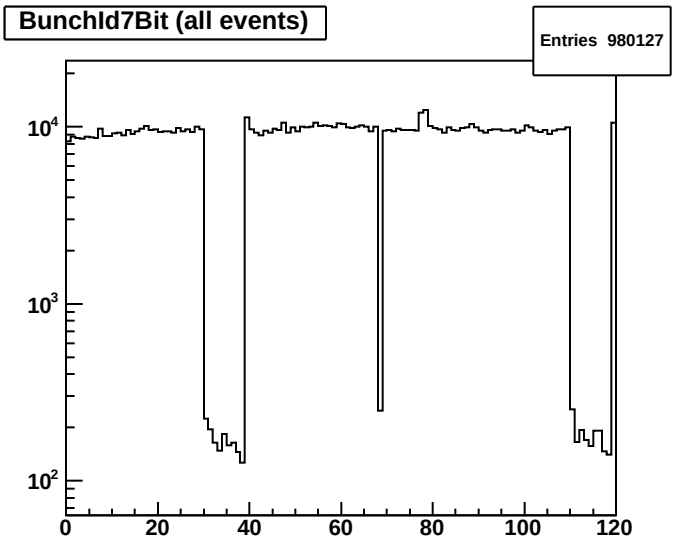

EMC L2 Input - HT23 bits
Entries 7841016
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

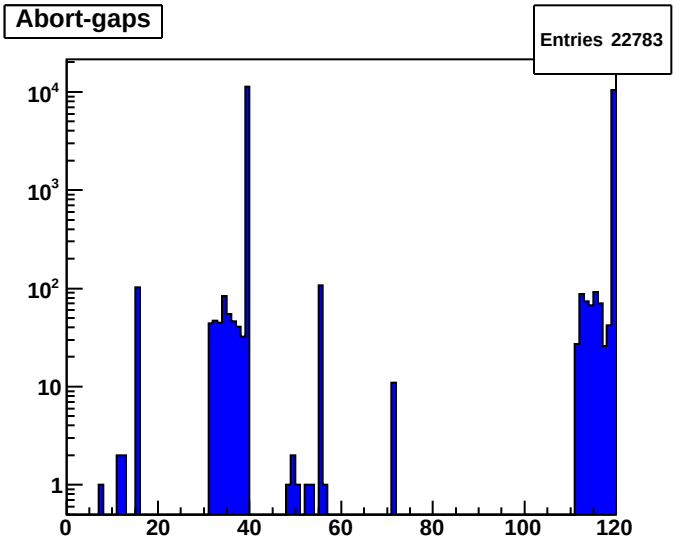

EMC L2 Input - HT23 bits
Entries 46
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

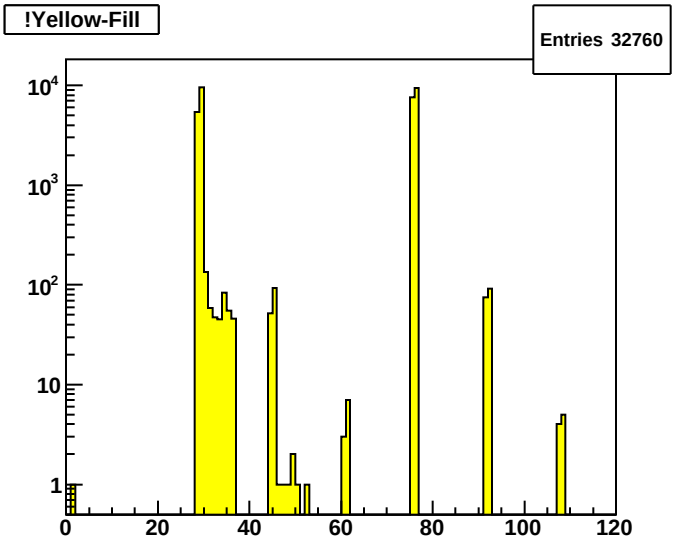

DAQ10k HT bits
Entries 91107

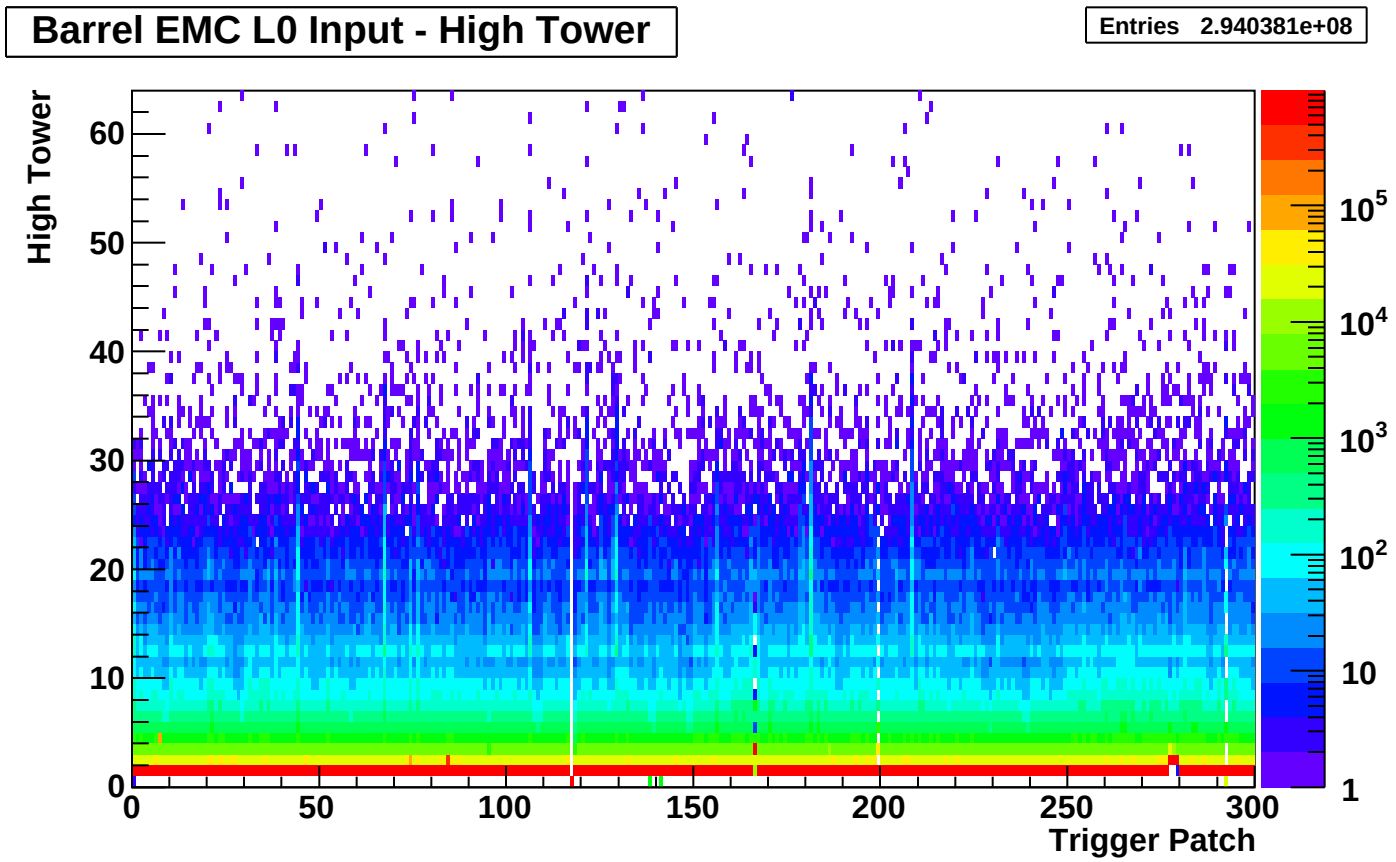

DAQ10k HT bits errors
Entries 20

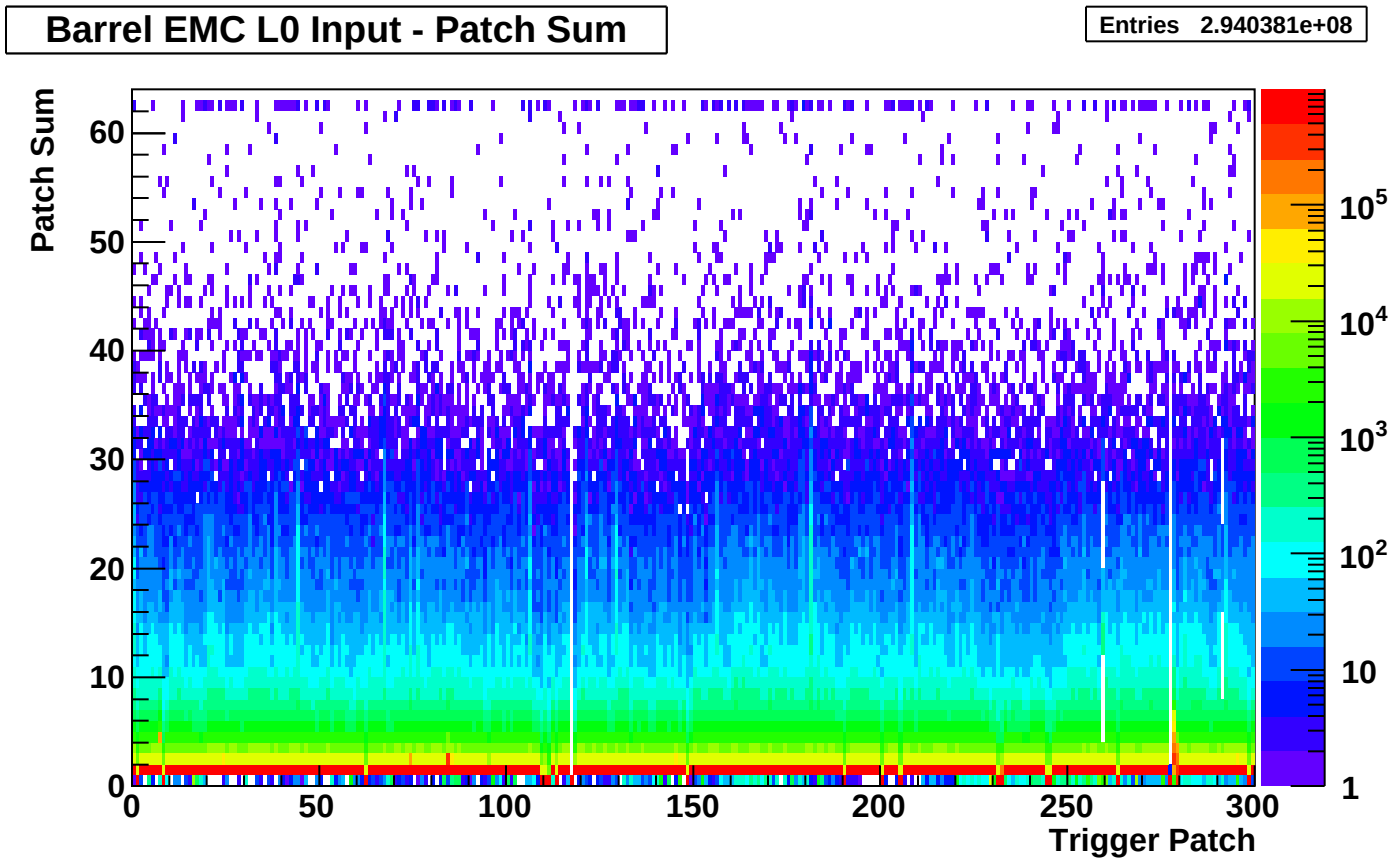

TPC Readout Mask (simulated)
Entries 162107

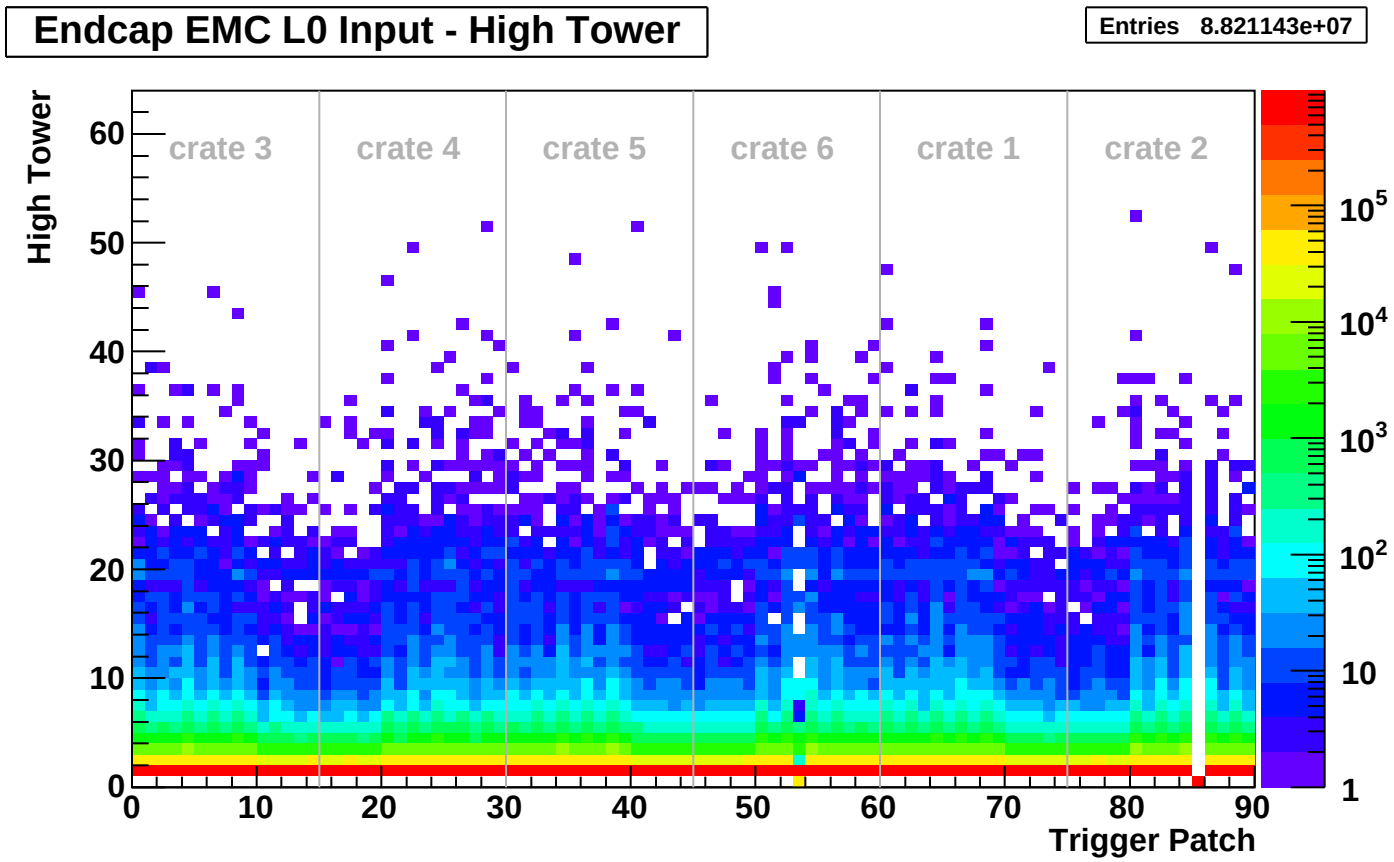

BunchId7Bit (all events)
Entries 980127

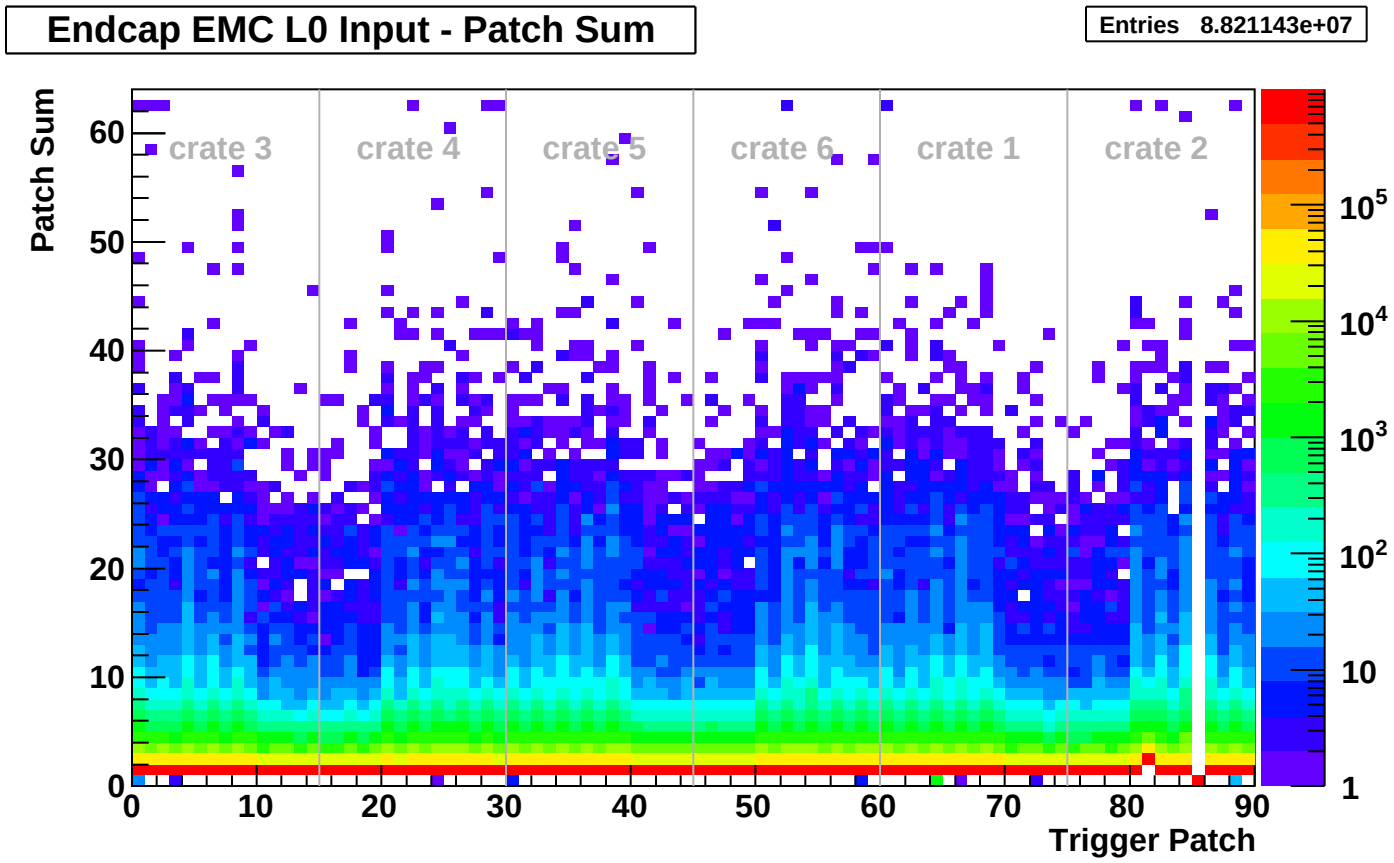

Abort-gaps
Entries 22783

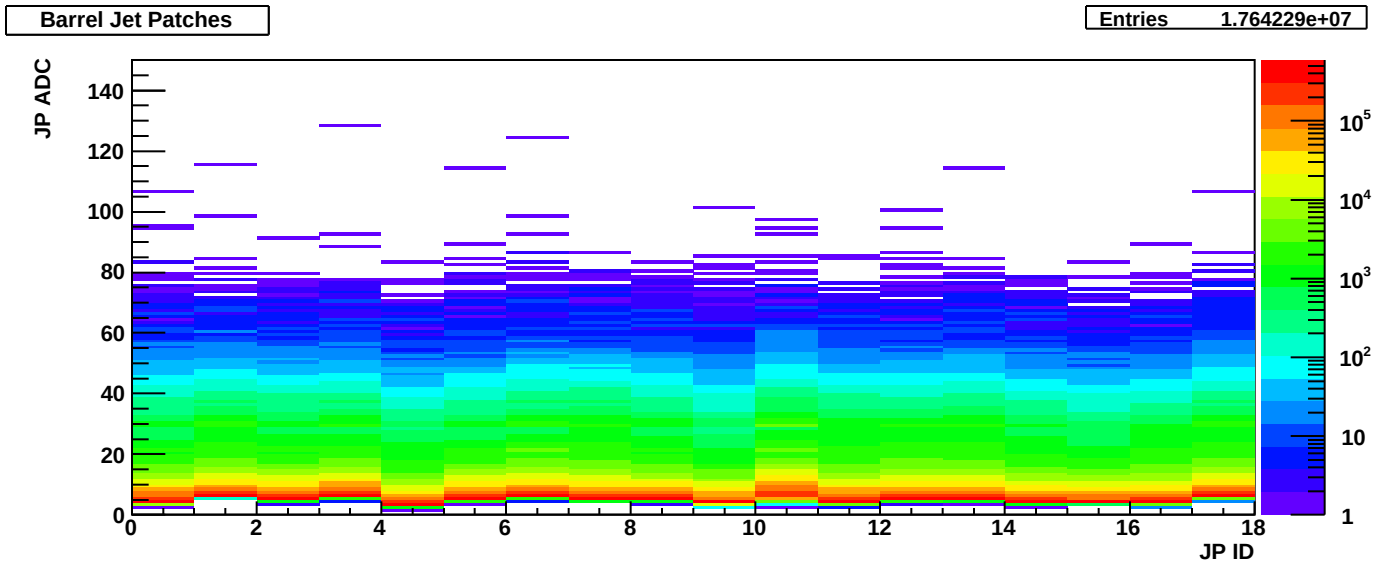

!Yellow-Fill
Entries 32760

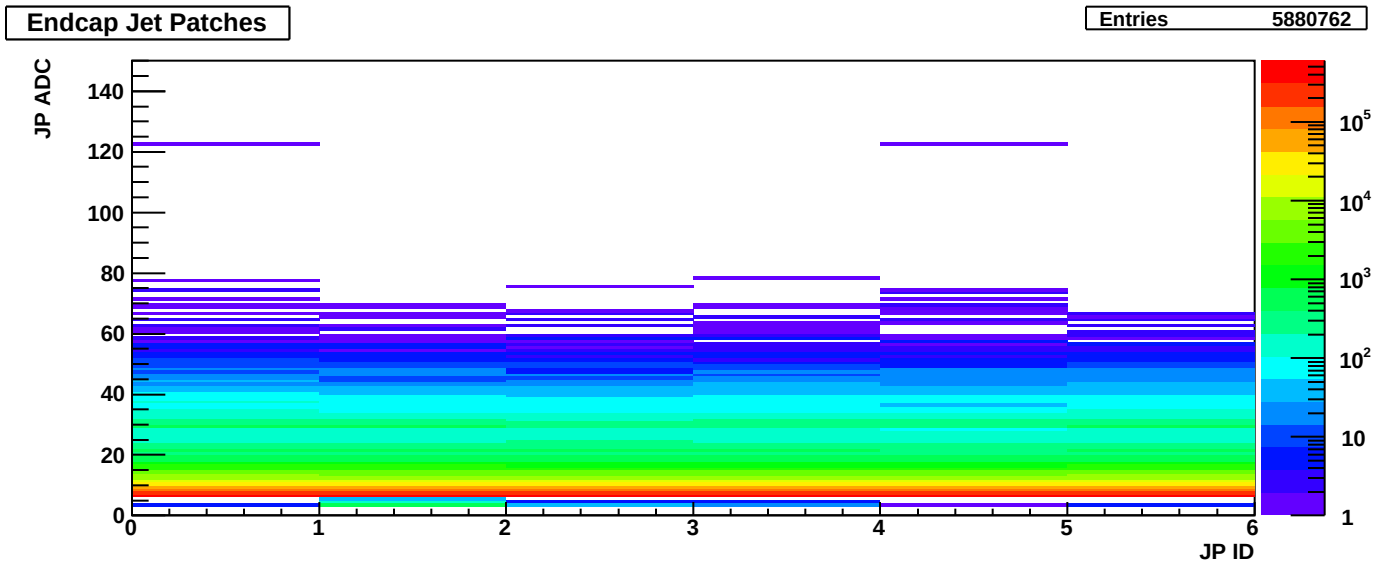

Barrel EMC L0 Input - High Tower
Entries 2.940381e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

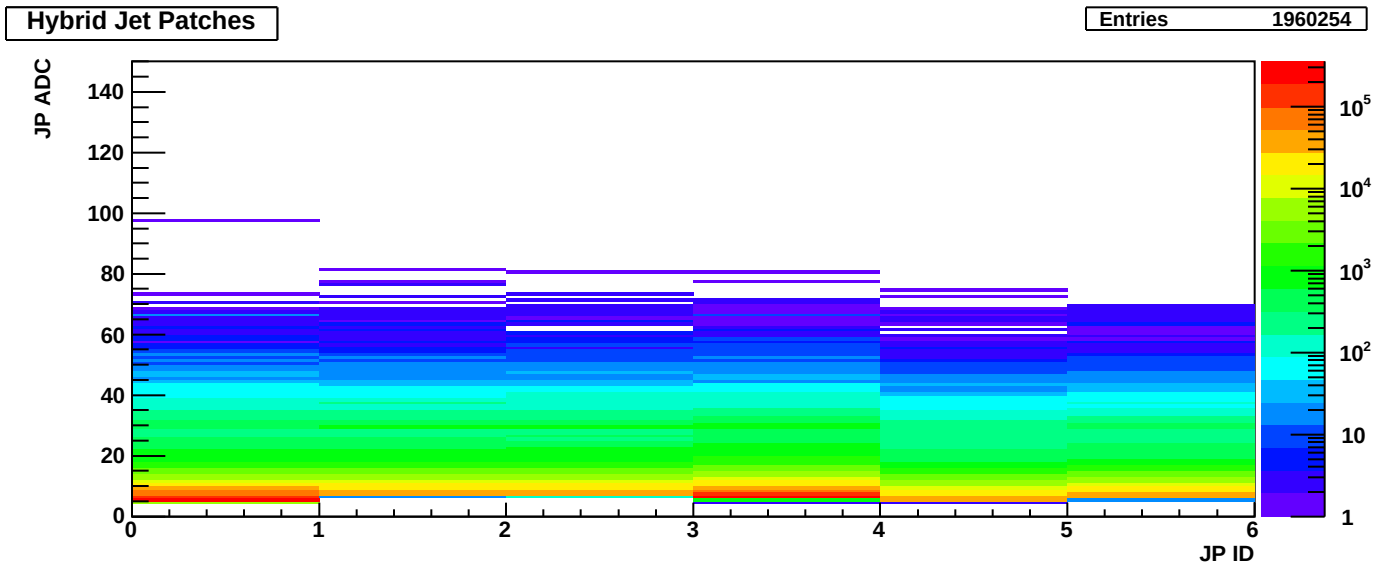

Barrel EMC L0 Input - Patch Sum
Entries 2.940381e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

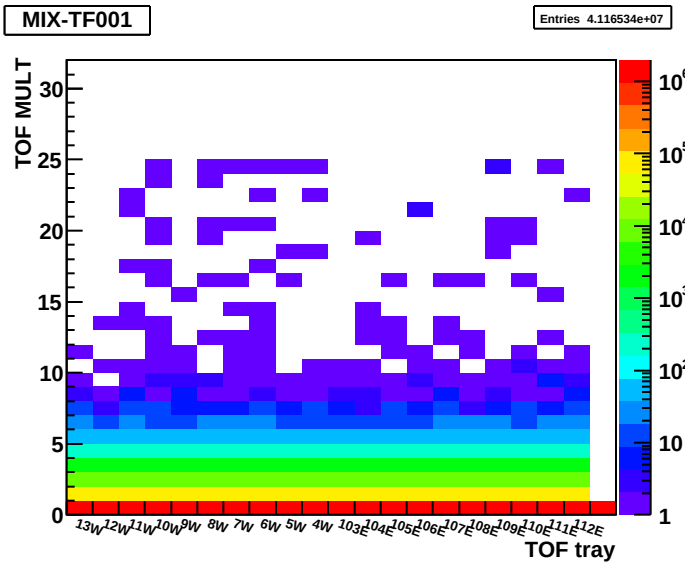

Endcap EMC L0 Input - High Tower
Entries 8.821143e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

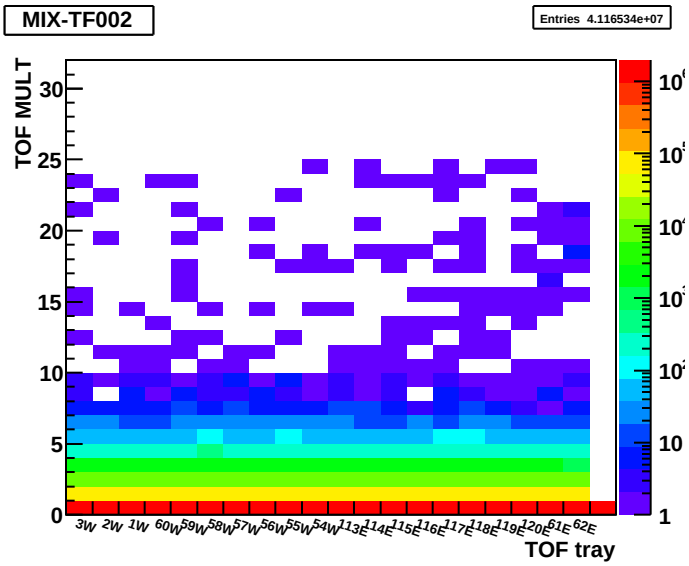

Endcap EMC L0 Input - Patch Sum
Entries 8.821143e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

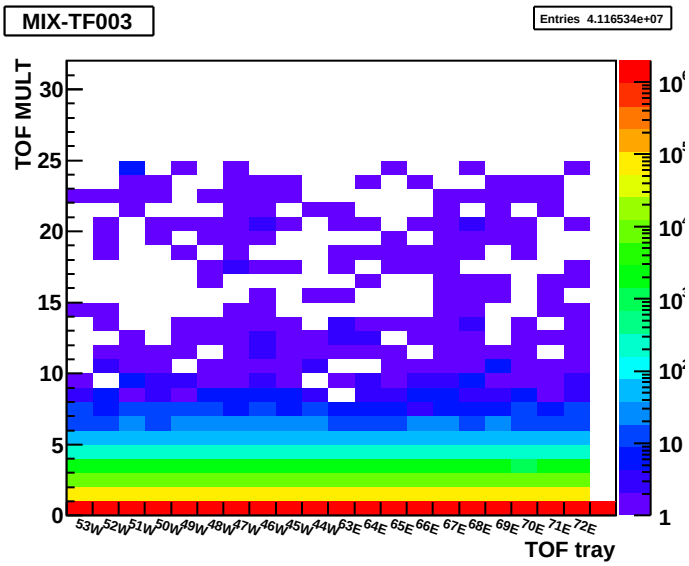

Barrel Jet Patches
Entries 1.764229e+07
JP ADC
JP ID

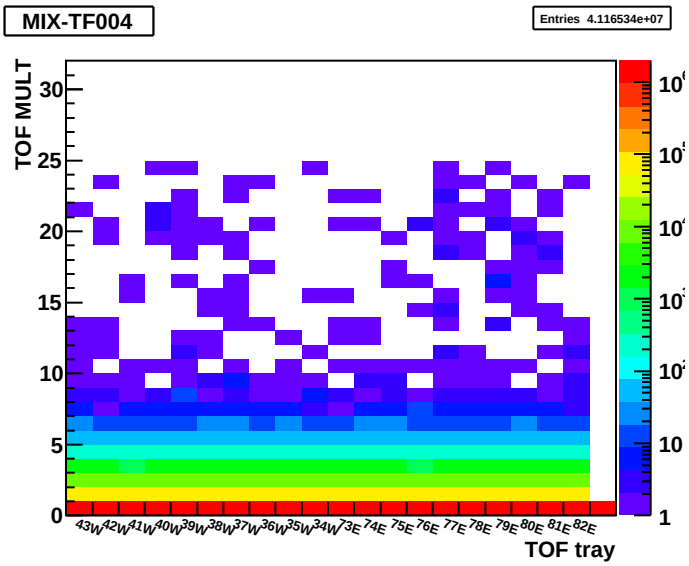

Endcap Jet Patches
Entries 5880762
JP ADC
JP ID

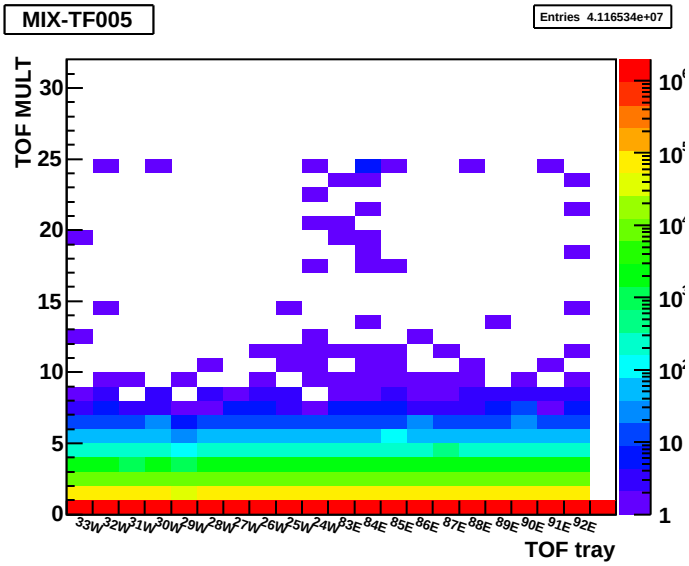

Hybrid Jet Patches
Entries 1960254
JP ADC
JP ID

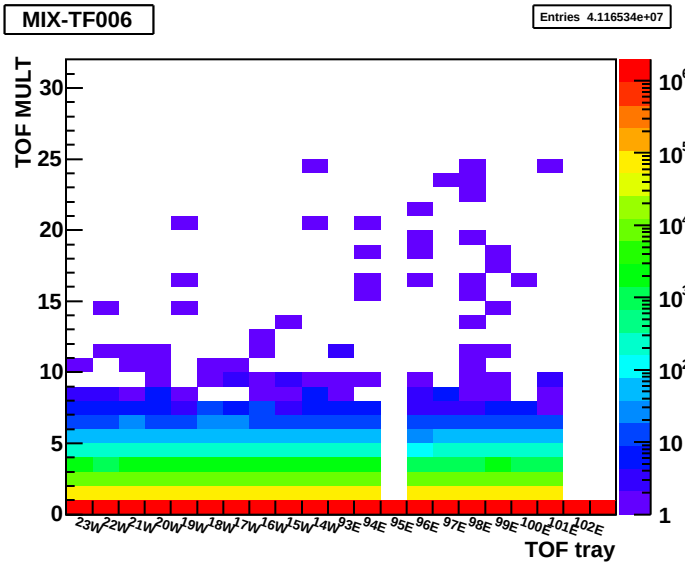

MIX-TF001
Entries 4.116534e+07
TOF MULT
TOF tray

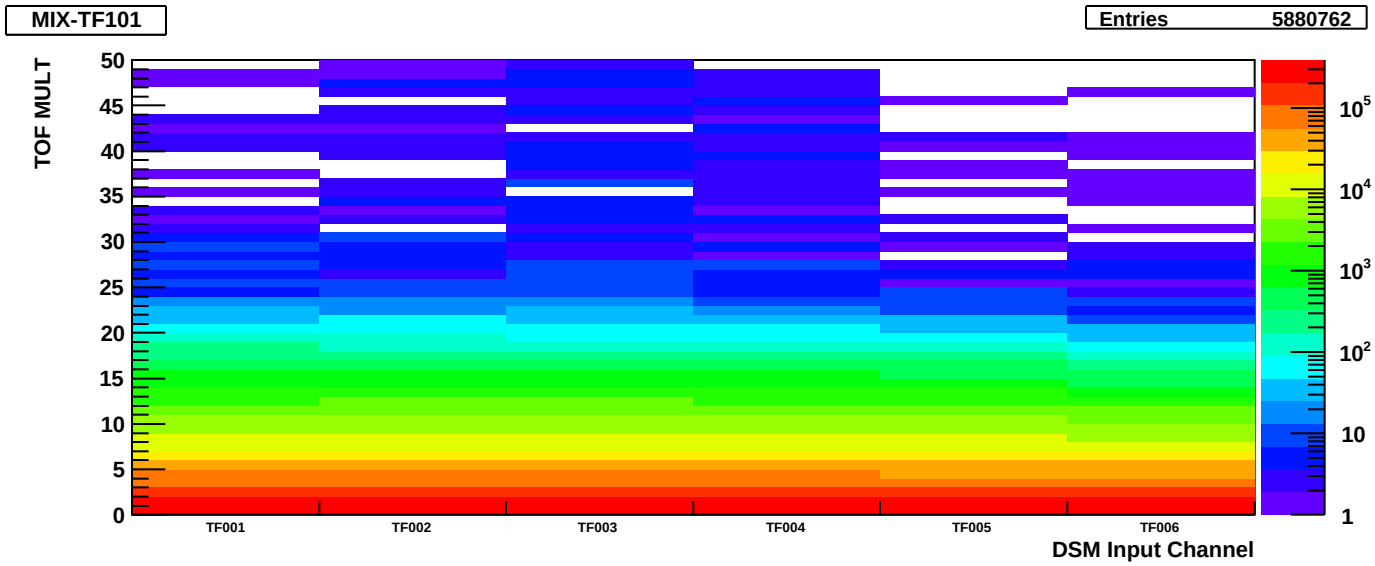

MIX-TF002
Entries 4.116534e+07
TOF MULT
TOF tray

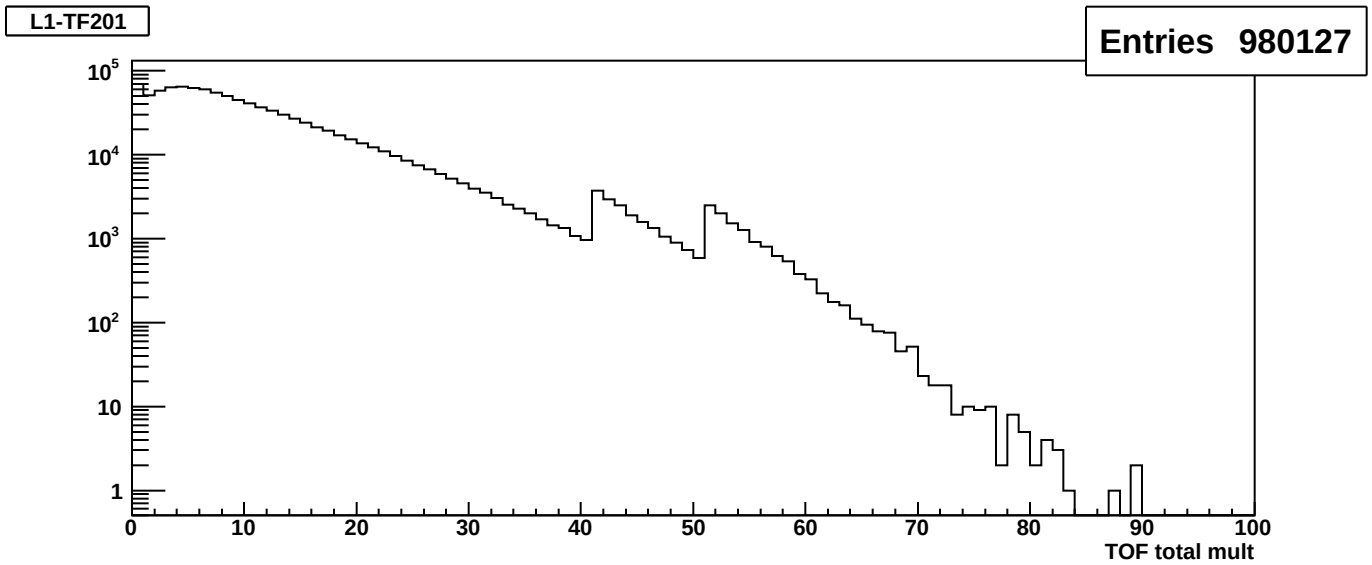

MIX-TF003
Entries 4.116534e+07
TOF MULT
TOF tray

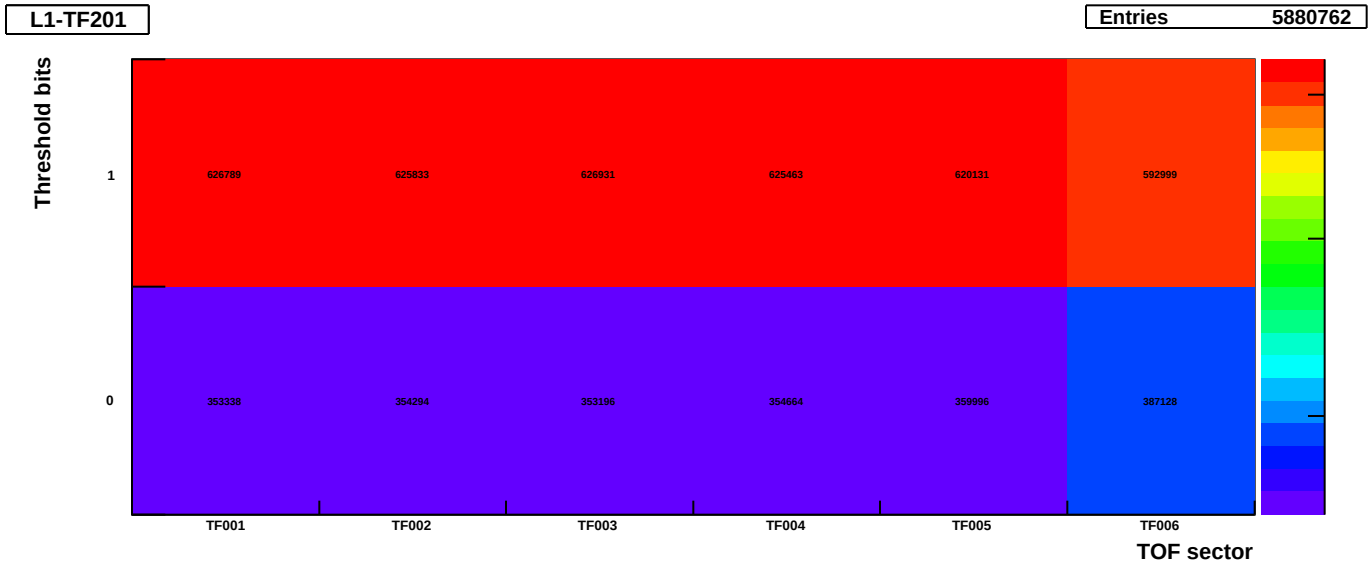

MIX-TF004
Entries 4.116534e+07
TOF MULT
TOF tray

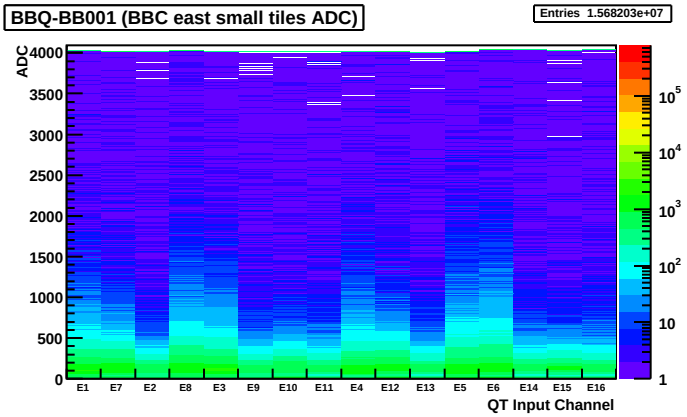

MIX-TF005
Entries 4.116534e+07
TOF MULT
TOF tray

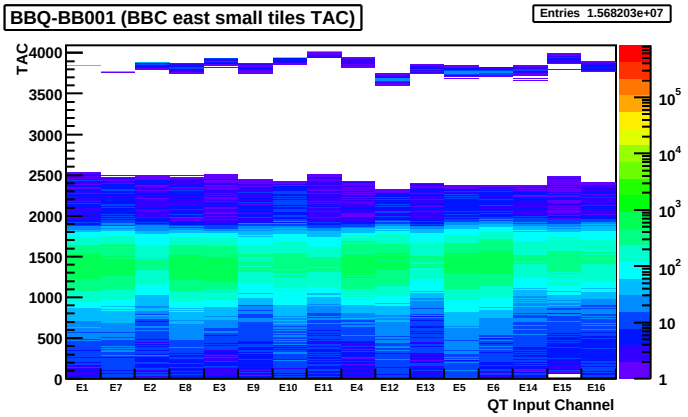

MIX-TF006
Entries 4.116534e+07
TOF MULT
TOF tray

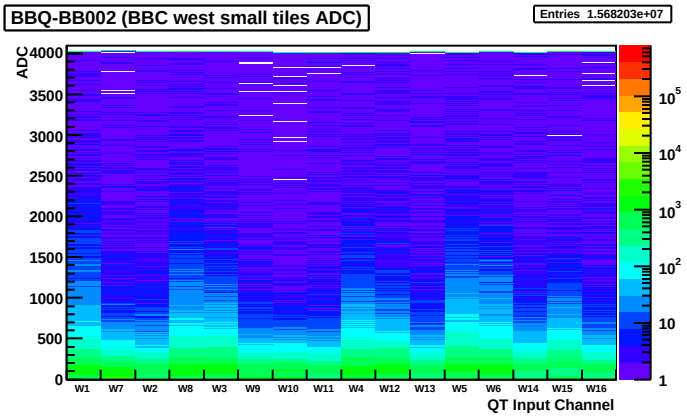

MIX-TF101
Entries 5880762
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

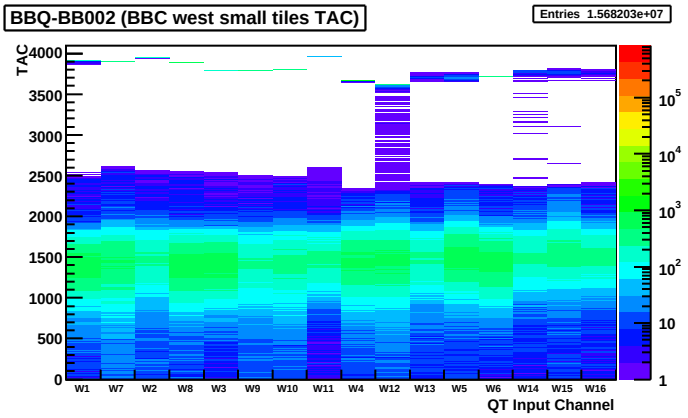

L1-TF201
Entries 980127
TOF total mult

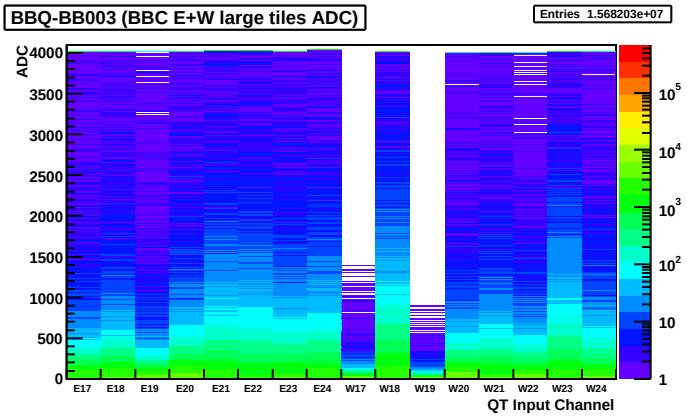

L1-TF201
Entries 5880762
Threshold bits
626789
625833
626931
625463
620131
592999
353338
354294
353196
354664
359996
387128
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

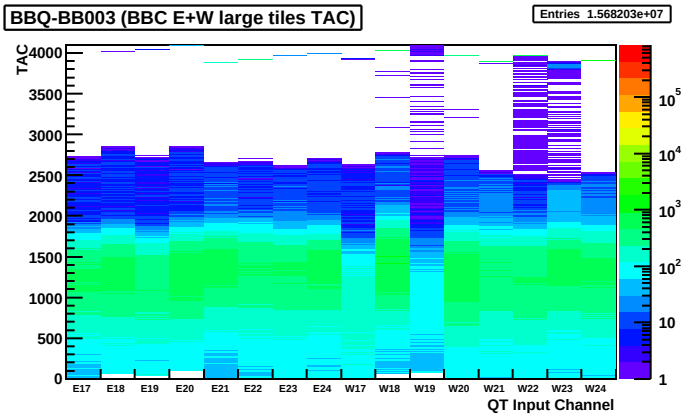

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.568203e+07
ADC
QT Input Channel

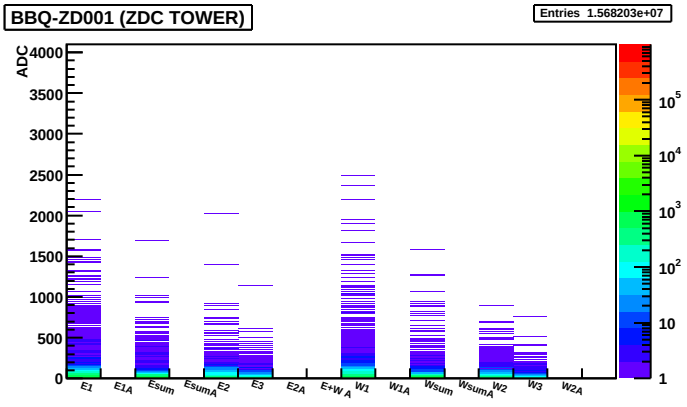

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.568203e+07
TAC
QT Input Channel

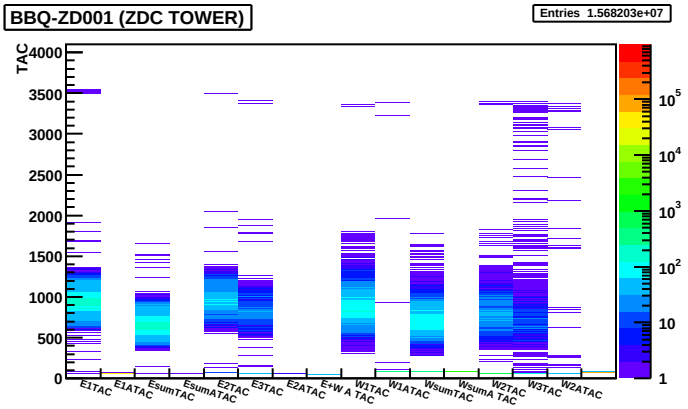

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.568203e+07
ADC
QT Input Channel

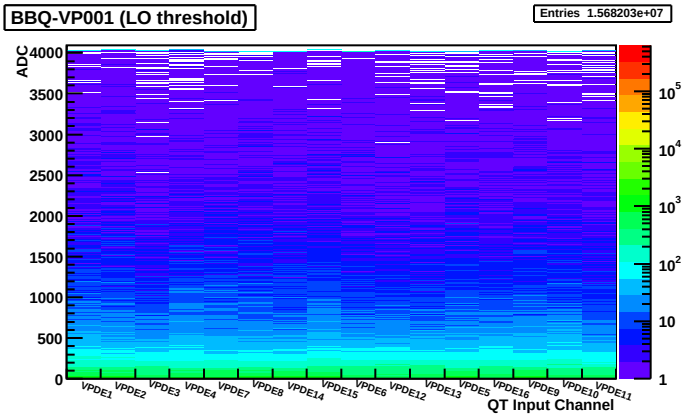

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.568203e+07
TAC
QT Input Channel

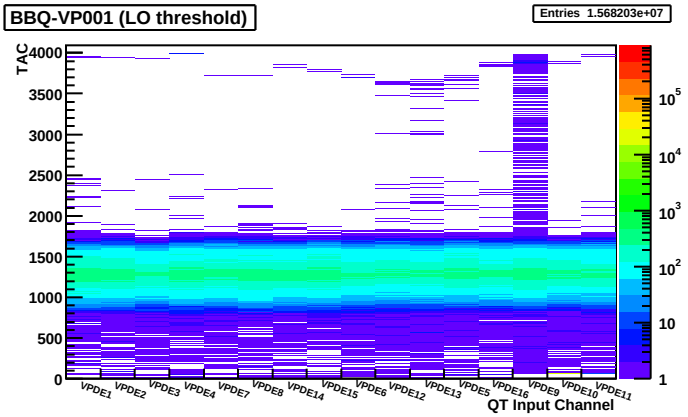

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.568203e+07
ADC
QT Input Channel

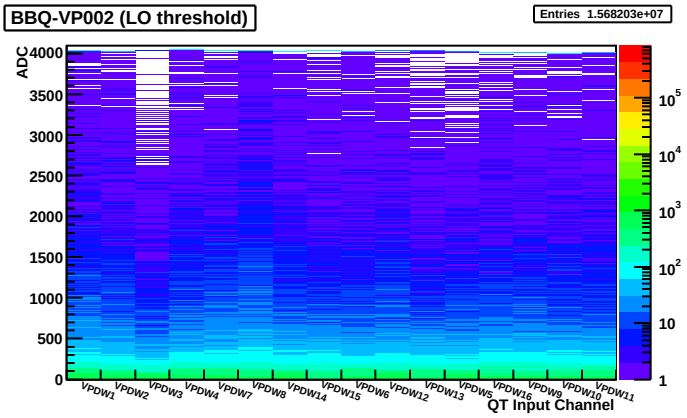

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.568203e+07
TAC
QT Input Channel

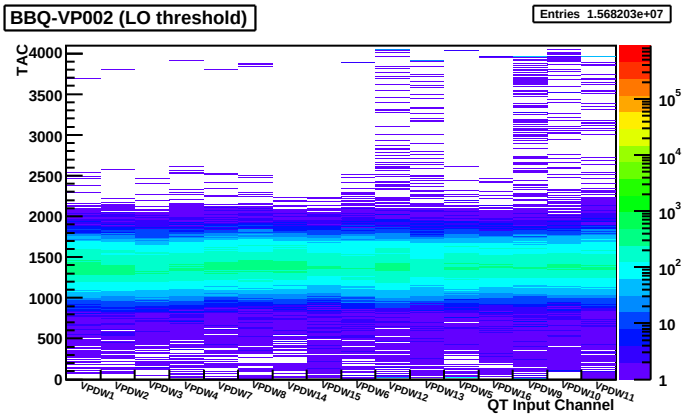

BBQ-ZD001 (ZDC TOWER)
Entries 1.568203e+07
ADC

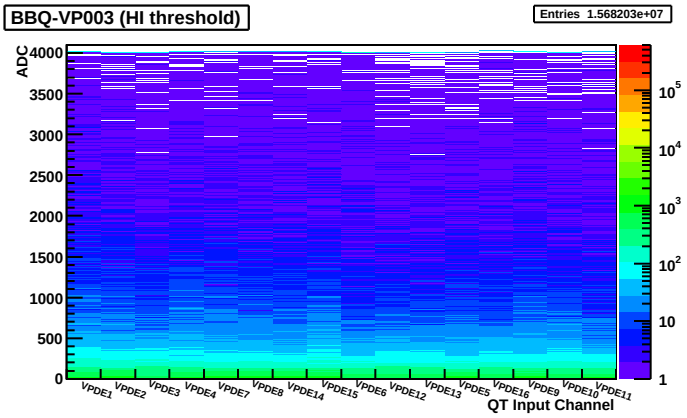

BBQ-ZD001 (ZDC TOWER)
Entries 1.568203e+07
TAC

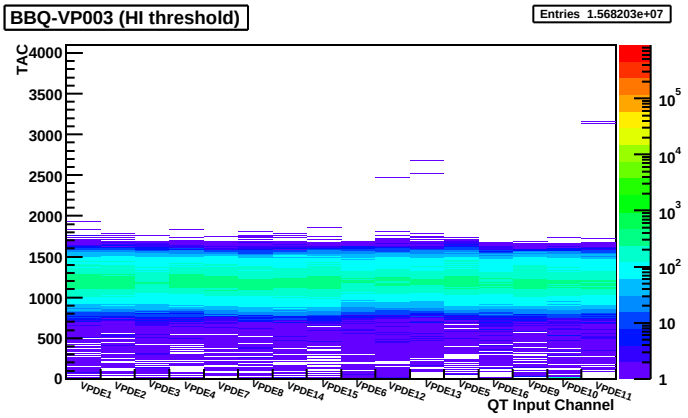

BBQ-VP001 (LO threshold)
Entries 1.568203e+07
ADC
QT Input Channel

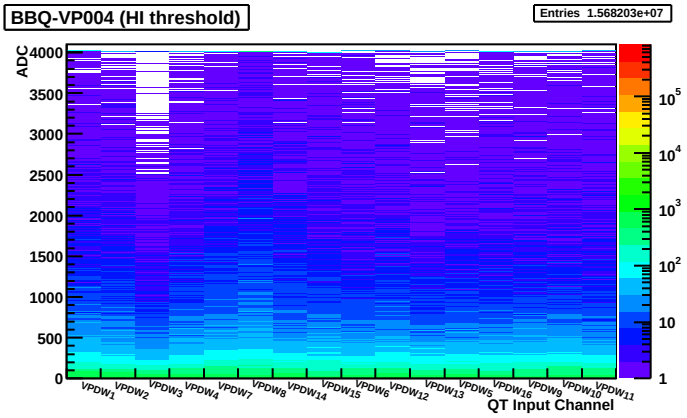

BBQ-VP001 (LO threshold)
Entries 1.568203e+07
TAC
QT Input Channel

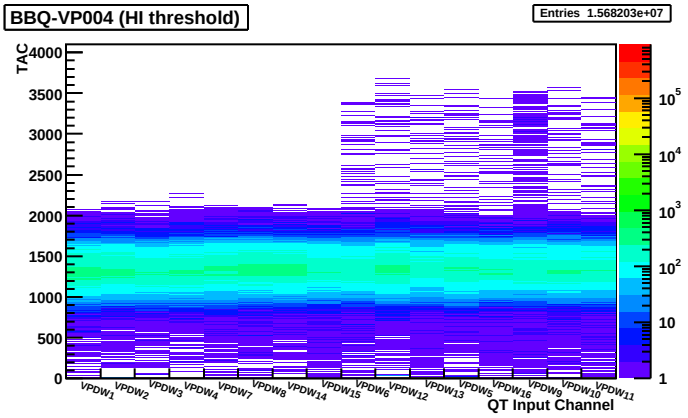

BBQ-VP002 (LO threshold)
Entries 1.568203e+07
ADC
QT Input Channel

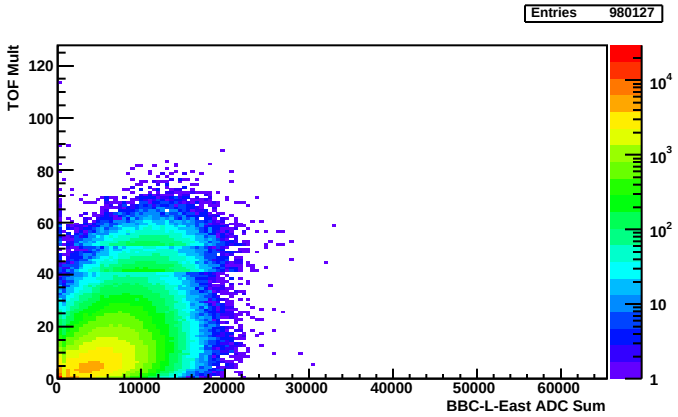

BBQ-VP002 (LO threshold)
Entries 1.568203e+07
TAC
QT Input Channel

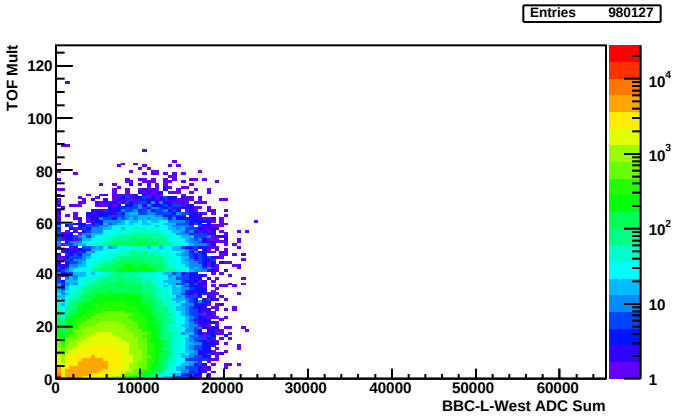

BBQ-VP003 (HI threshold)
Entries 1.568203e+07
ADC
QT Input Channel

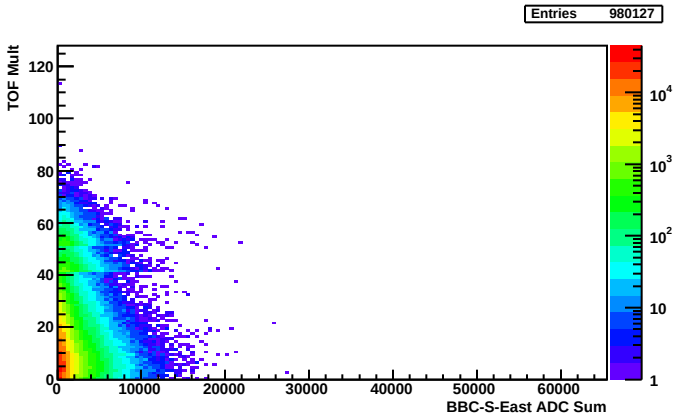

BBQ-VP003 (HI threshold)
Entries 1.568203e+07
TAC
QT Input Channel

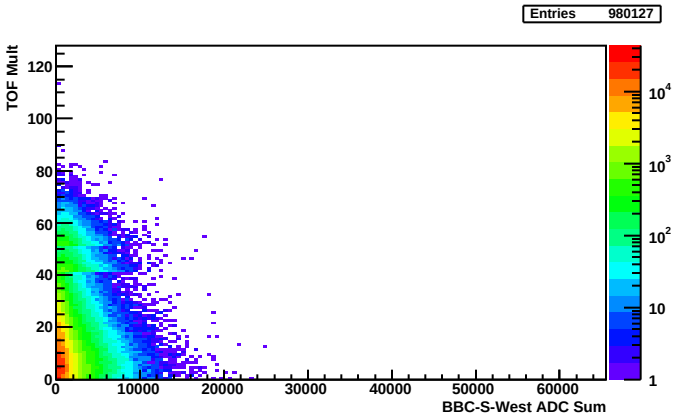

BBQ-VP004 (HI threshold)
Entries 1.568203e+07
ADC
QT Input Channel

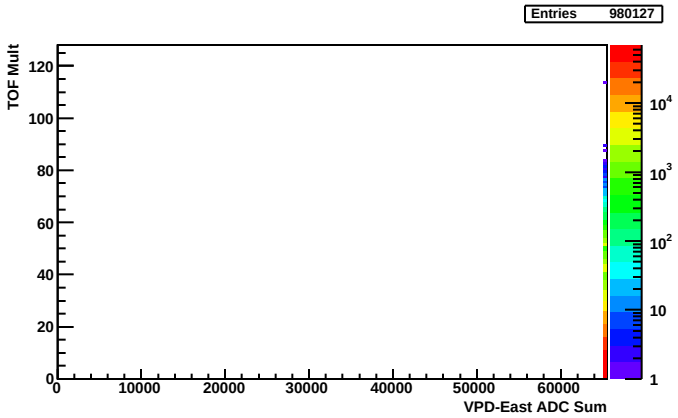

BBQ-VP004 (HI threshold)
Entries 1.568203e+07
TAC
QT Input Channel

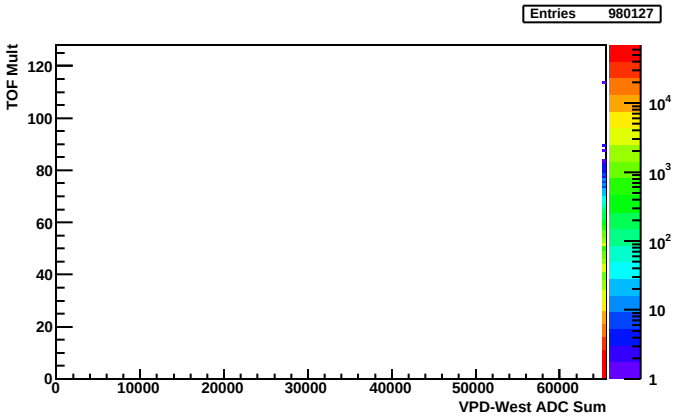

Entries 980127
TOF Mult
BBC-L-East ADC Sum

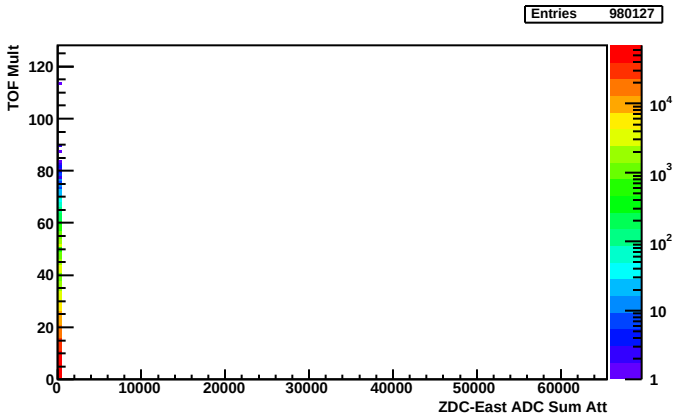

Entries 980127
TOF Mult
BBC-L-West ADC Sum

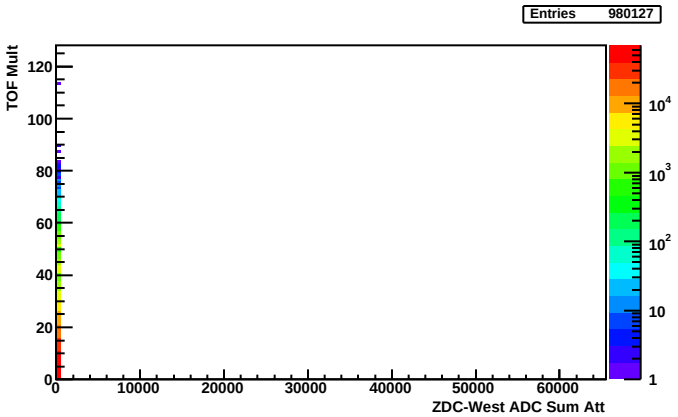

Entries 980127
TOF Mult
BBC-S-East ADC Sum

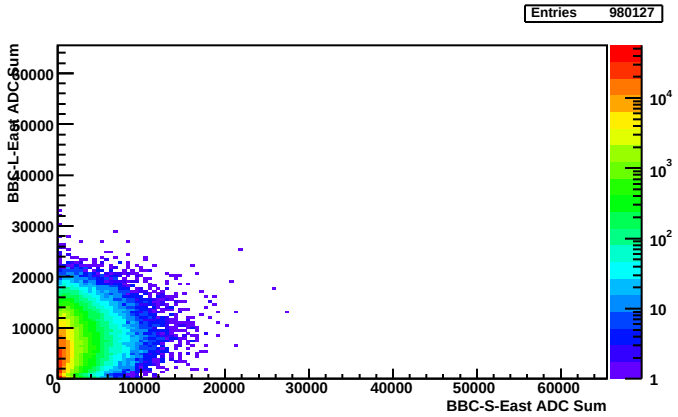

Entries 980127
TOF Mult
BBC-S-West ADC Sum

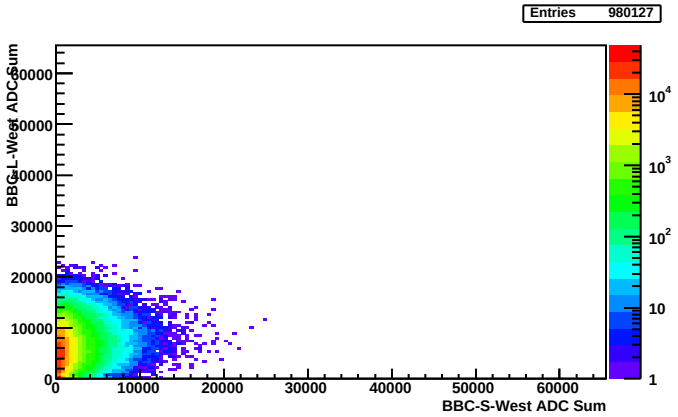

Entries 980127
TOF Mult
VPD-East ADC Sum

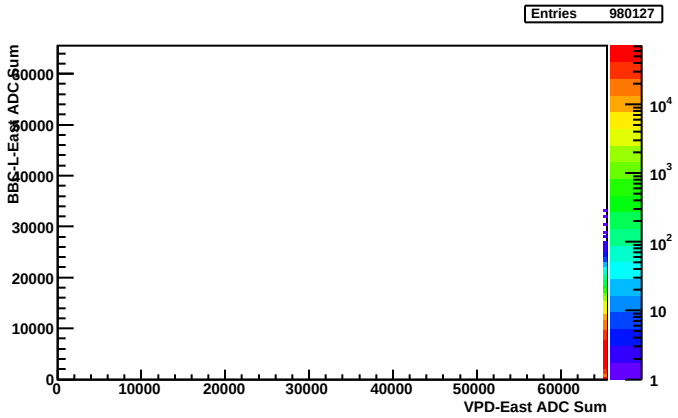

Entries 980127
TOF Mult
VPD-West ADC Sum

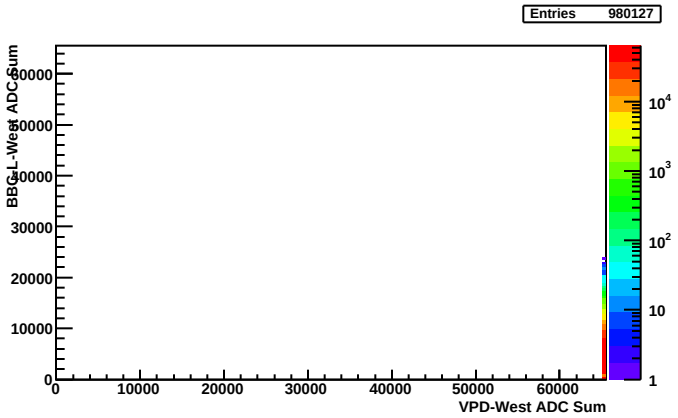

Entries 980127
TOF Mult
ZDC-East ADC Sum Att

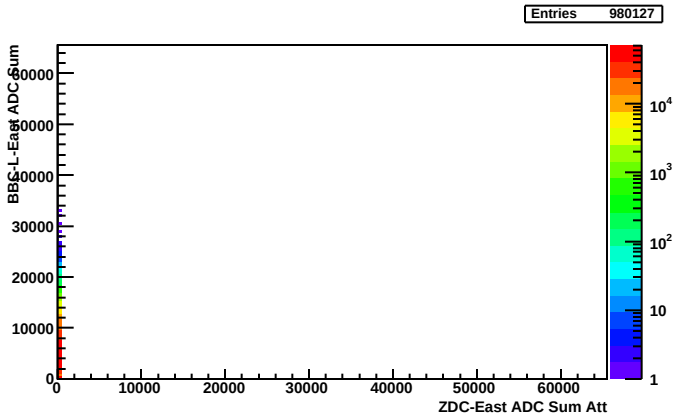

Entries 980127
TOF Mult
ZDC-West ADC Sum Att

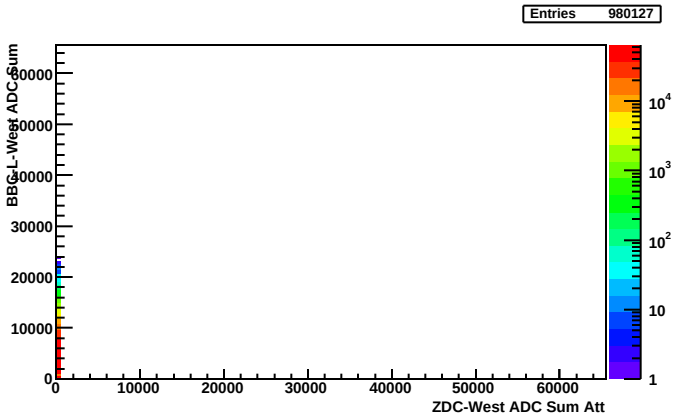

Entries 980127
BBC-L-East ADC Sum
BBC-S-East ADC Sum

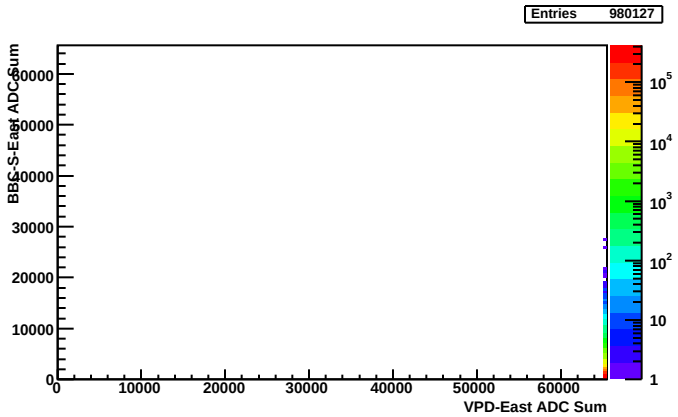

Entries 980127
BBC-L-West ADC Sum
BBC-S-West ADC Sum

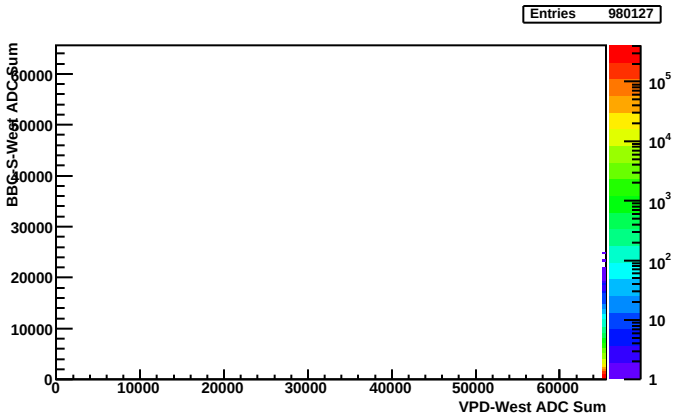

Entries 980127
BBC-L-East ADC Sum
VPD-East ADC Sum

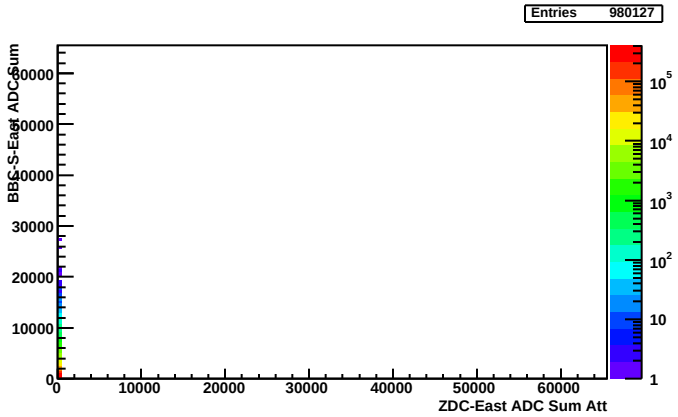

Entries 980127
BBC-L-West ADC Sum
VPD-West ADC Sum

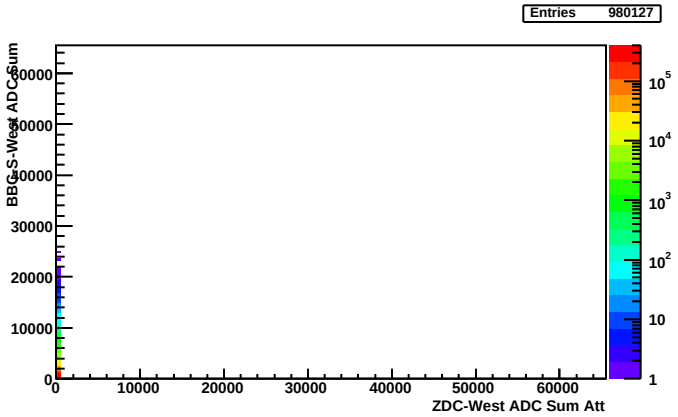

Entries 980127
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

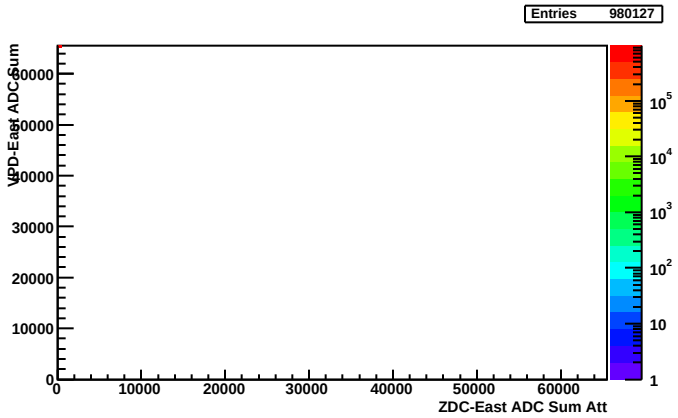

Entries 980127
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

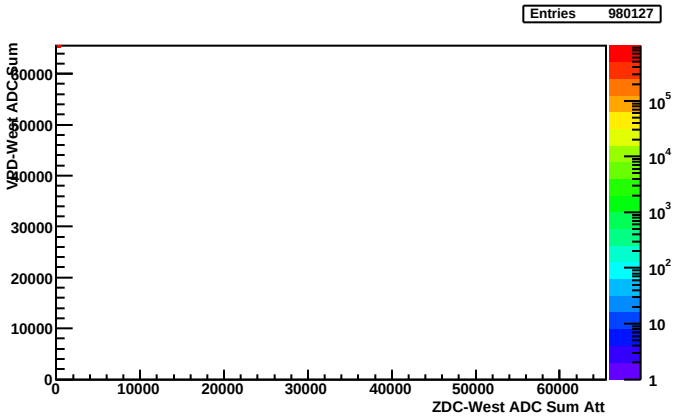

Entries 980127
BBC-S-East ADC Sum
VPD-East ADC Sum

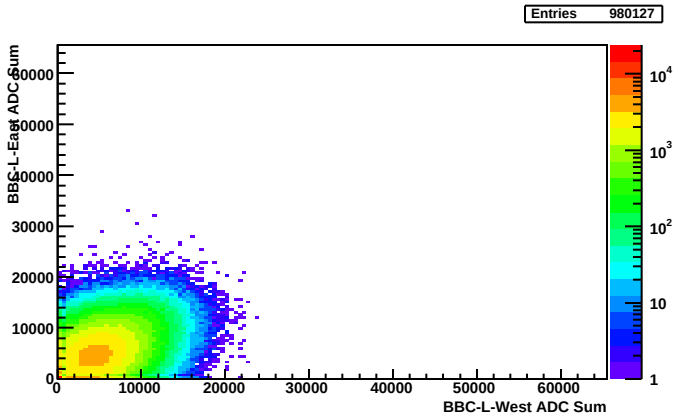

Entries 980127
BBC-S-West ADC Sum
VPD-West ADC Sum

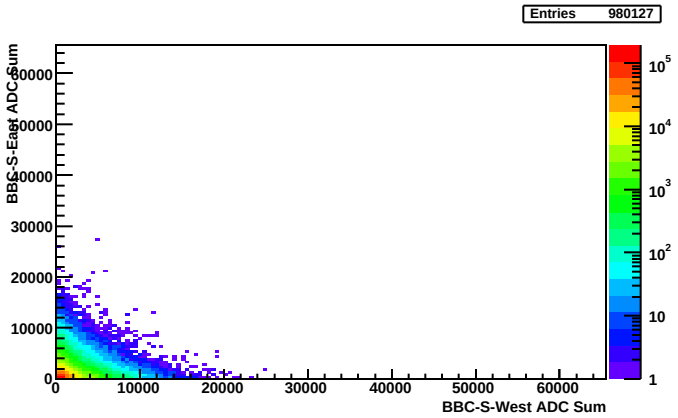

Entries 980127
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

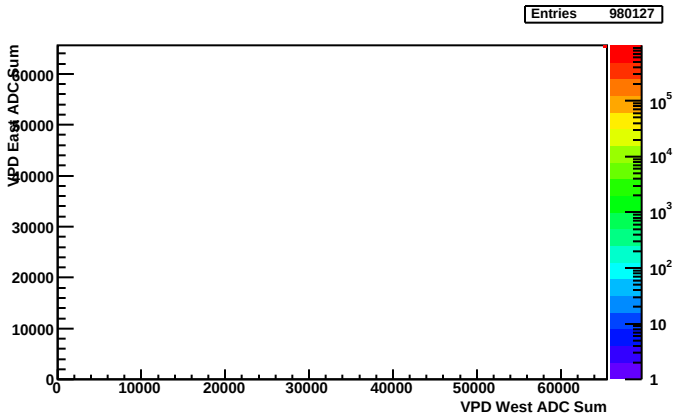

Entries 980127
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

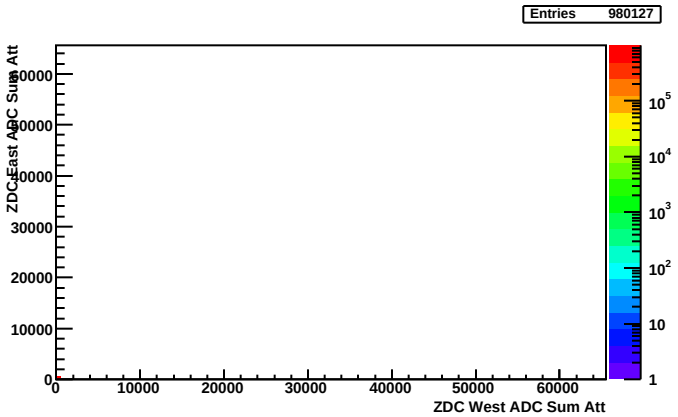

Entries 980127
VPD-East ADC Sum
ZDC-East ADC Sum Att

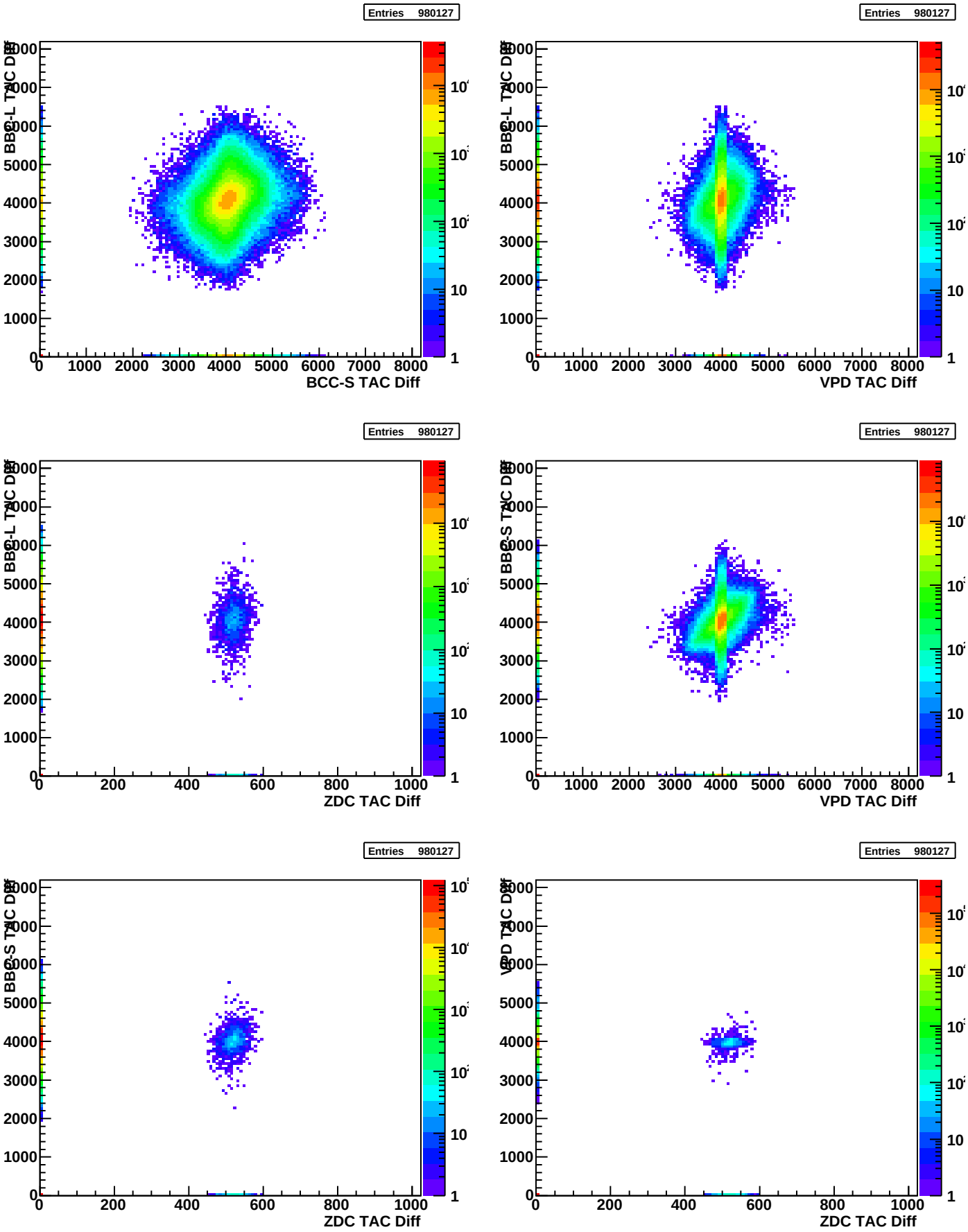

Entries 980127
VPD-West ADC Sum
ZDC-West ADC Sum Att

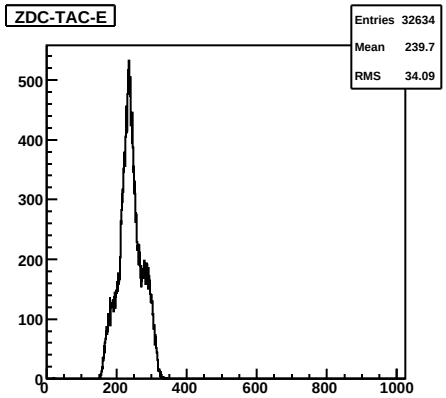

Entries 980127
BBC-L-East ADC Sum
BBC-L-West ADC Sum

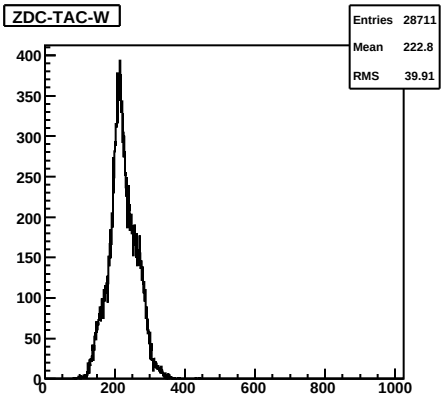

Entries 980127
BBC-S-East ADC Sum
BBC-S-West ADC Sum

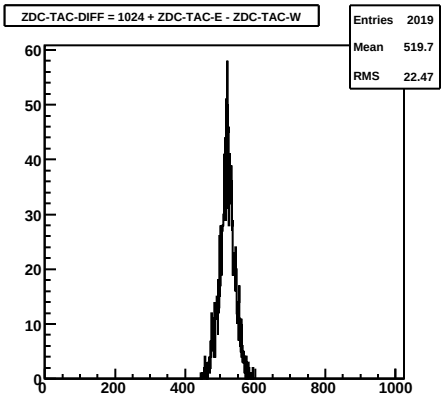

Entries 980127
VPD East ADC Sum
VPD West ADC Sum

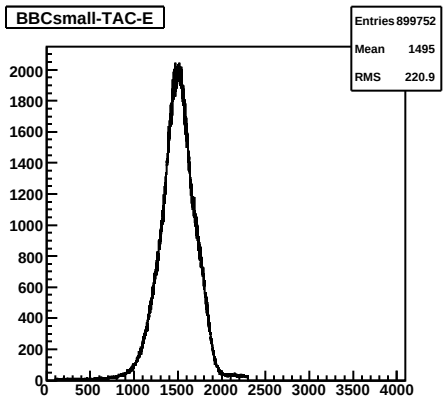

Entries 980127
ZDC East ADC Sum Att
ZDC West ADC Sum Att

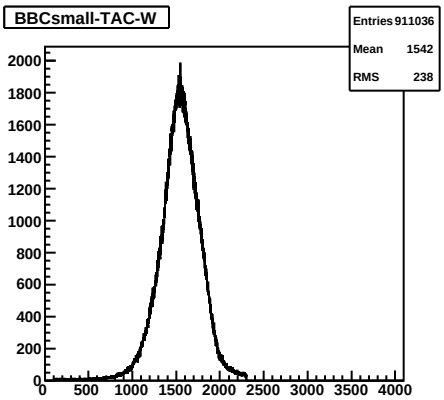

Entries 980127
BBC-L TAC Diff
BCC-S TAC Diff
Entries 980127
BBC-L TAC Diff
VPD TAC Diff
Entries 980127
BBC-L TAC Diff
ZDC TAC Diff
Entries 980127
BBC-S TAC Diff
VPD TAC Diff
Entries 980127
BBC-S TAC Diff
ZDC TAC Diff
Entries 980127
VPD TAC Diff
ZDC TAC Diff

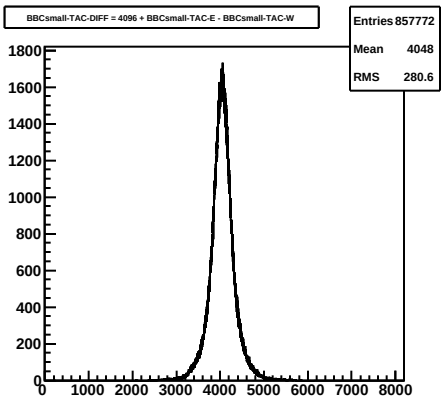

ZDC-TAC-E
Entries 32634
Mean 239.7
RMS 34.09

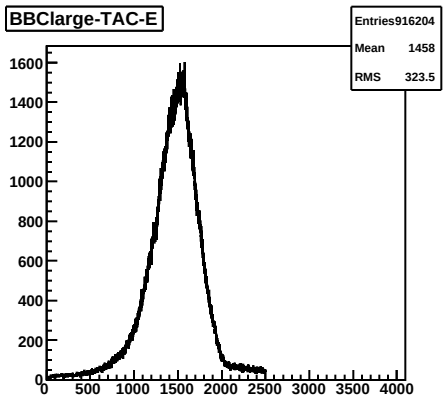

ZDC-TAC-W
Entries 28711
Mean 222.8
RMS 39.91

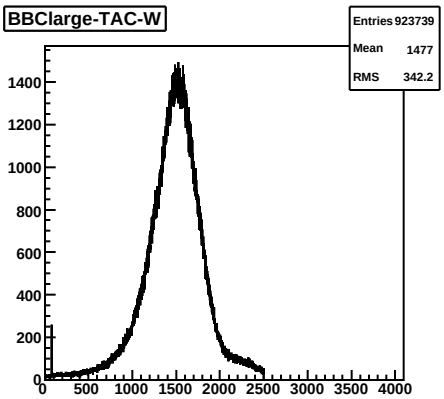

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 2019
Mean 519.7
RMS 22.47

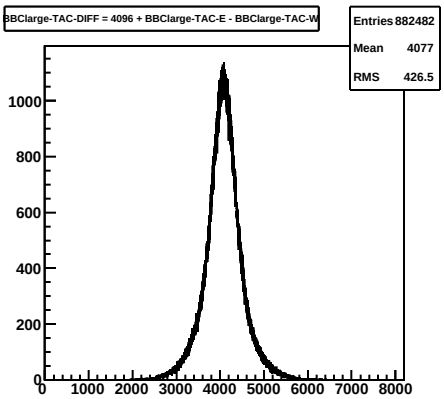

BBCsmall-TAC-E
Entries 899752
Mean 1495
RMS 220.9

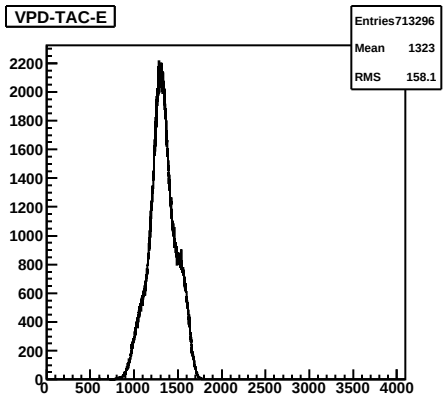

BBCsmall-TAC-W
Entries 911036
Mean 1542
RMS 238

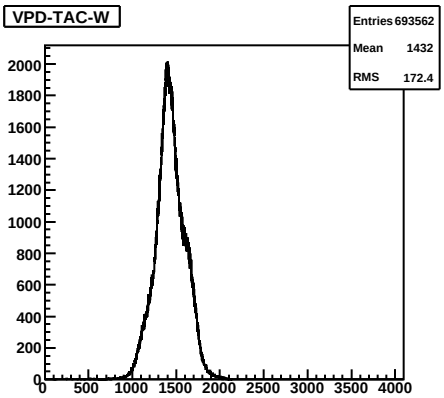

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 857772
Mean 4048
RMS 280.6

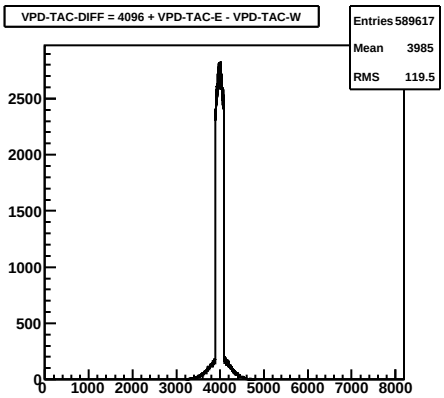

BBClarge-TAC-E
Entries 916204
Mean 1458
RMS 323.5

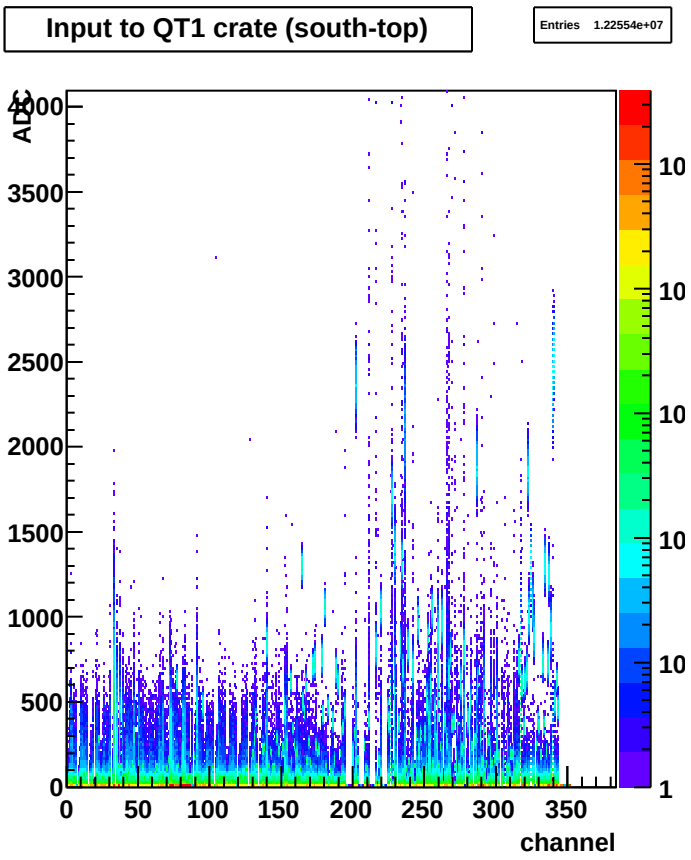

BBClarge-TAC-W
Entries 923739
Mean 1477
RMS 342.2

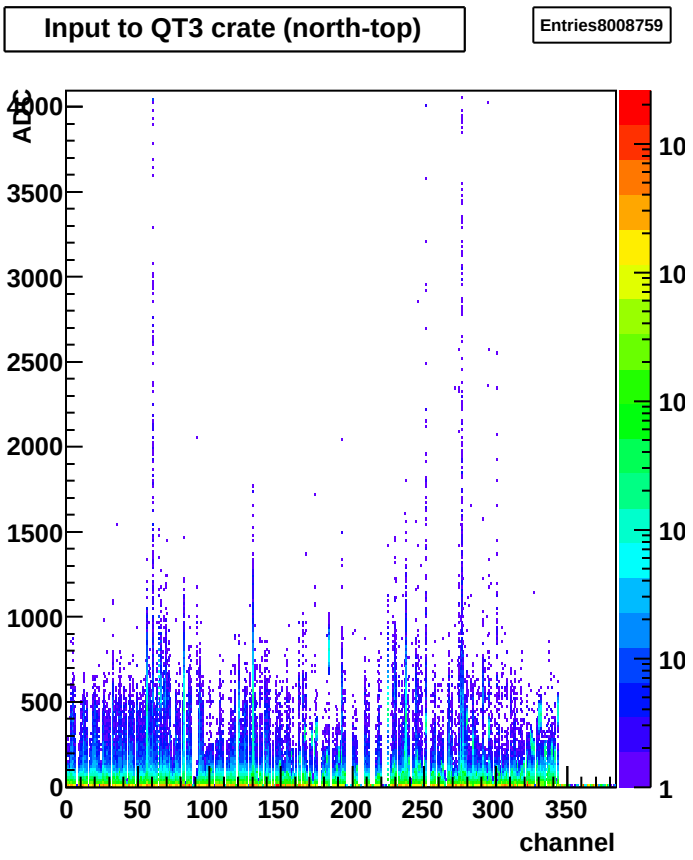

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 882482
Mean 4077
RMS 426.5

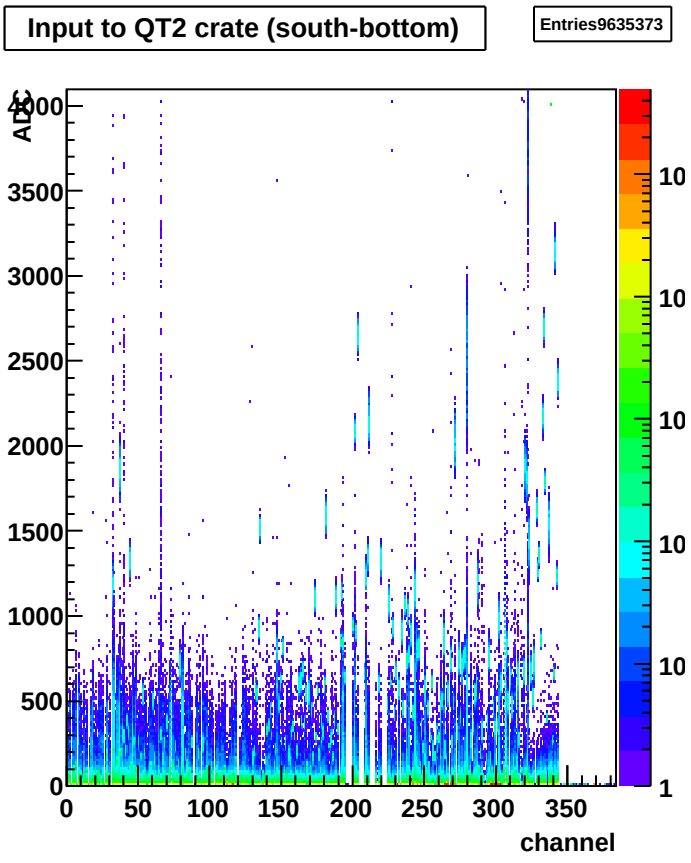

VPD-TAC-E
Entries 713296
Mean 1323
RMS 158.1

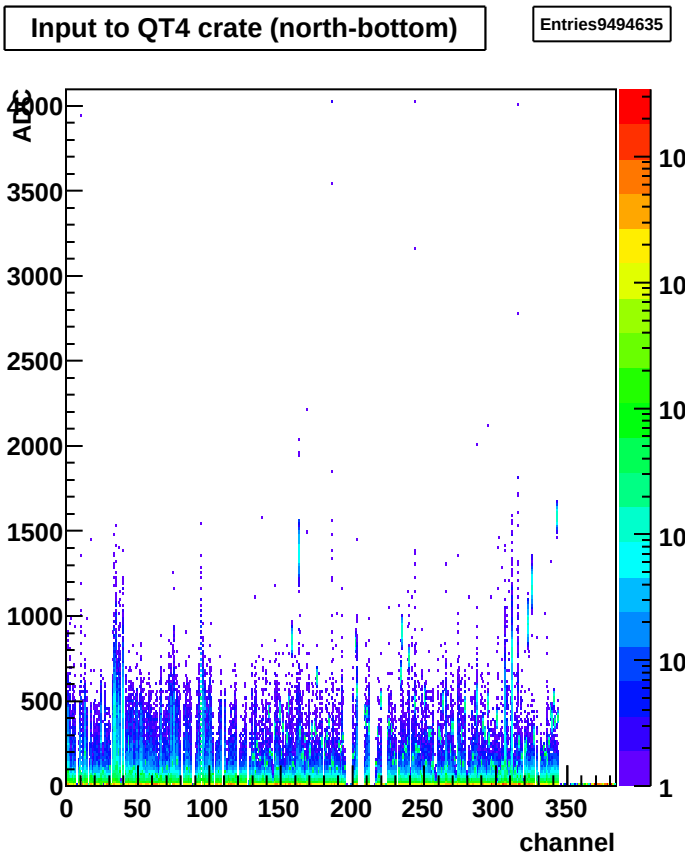

VPD-TAC-W
Entries 693562
Mean 1432
RMS 172.4

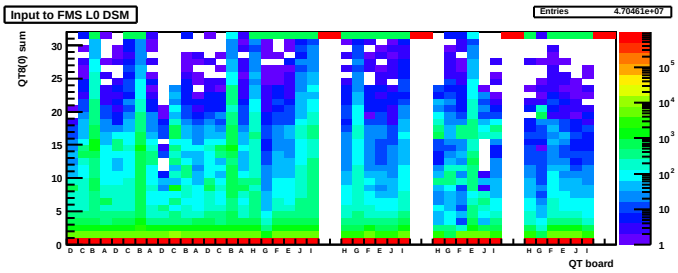

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 589617
Mean 3985
RMS 119.5

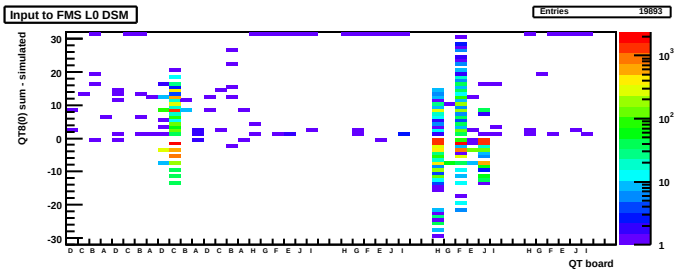

Input to QT1 crate (south-top)
Entries 1.22554e+07
ADC
channel

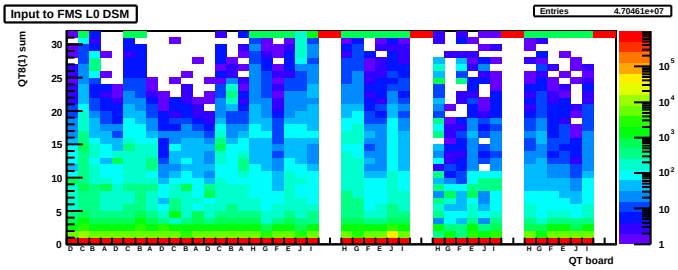

Input to QT3 crate (north-top)
Entries8008759
ADC
channel

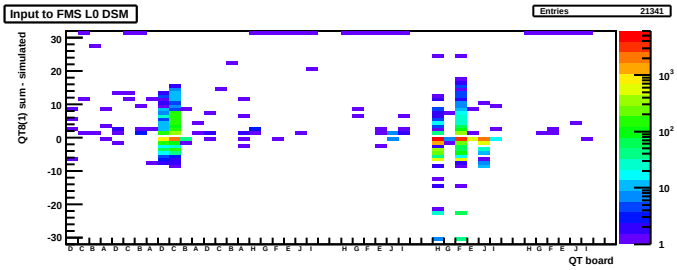

Input to QT2 crate (south-bottom)
Entries9635373
ADC
channel

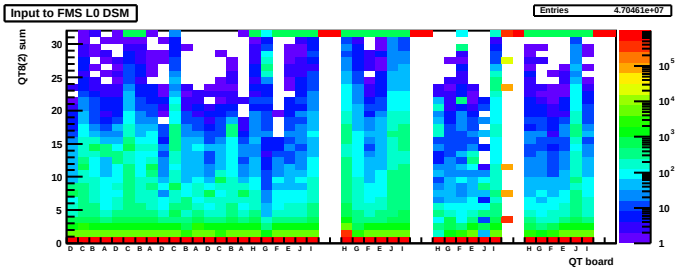

Input to QT4 crate (north-bottom)
Entries9494635
ADC
channel

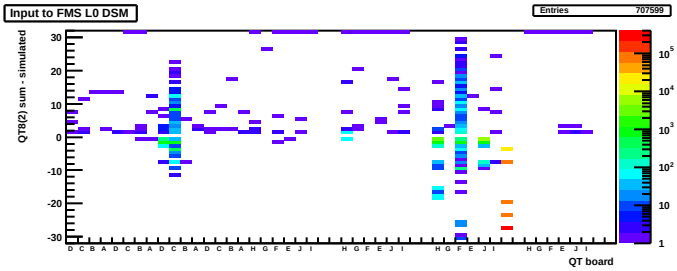

Input to FMS L0 DSM
Entries 4.70461e+07
QT8(0) sum
QT board

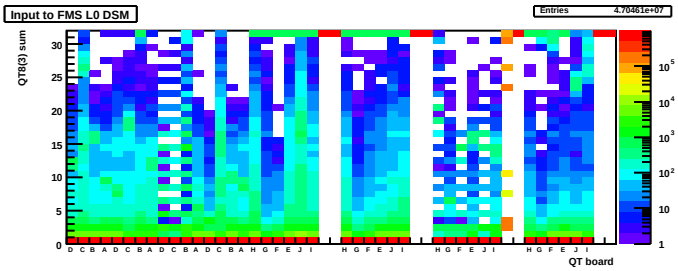

Input to FMS L0 DSM
Entries 19893
QT8(0) sum - simulated
QT board

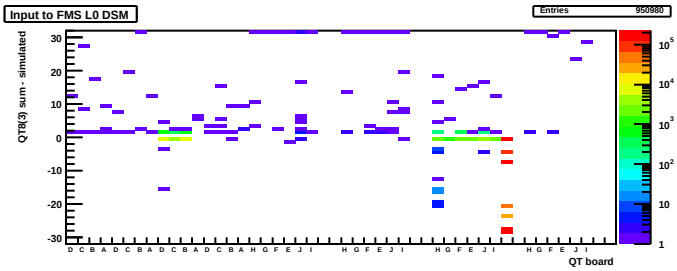

Input to FMS L0 DSM
Entries 4.70461e+07
QT8(1) sum
QT board

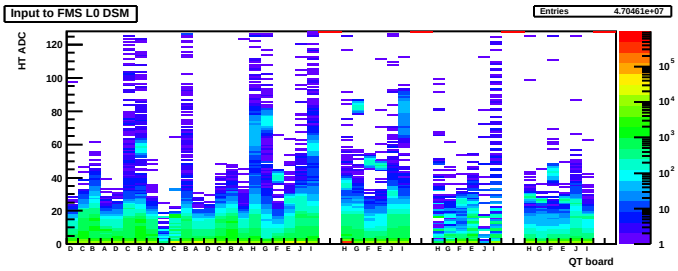

Input to FMS L0 DSM
Entries 21341
QT8(1) sum - simulated
QT board

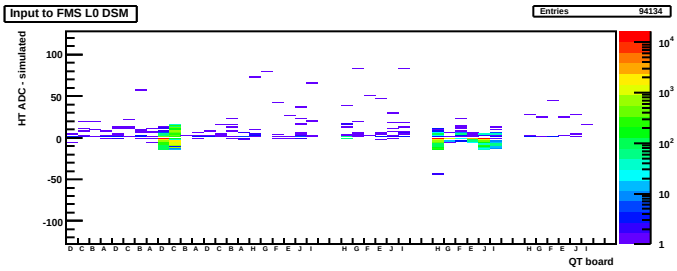

Input to FMS L0 DSM
Entries 4.70461e+07
QT8(2) sum
QT board

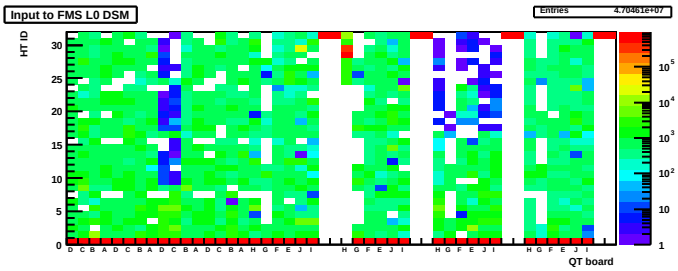

Input to FMS L0 DSM
Entries 707599
QT8(2) sum - simulated
QT board

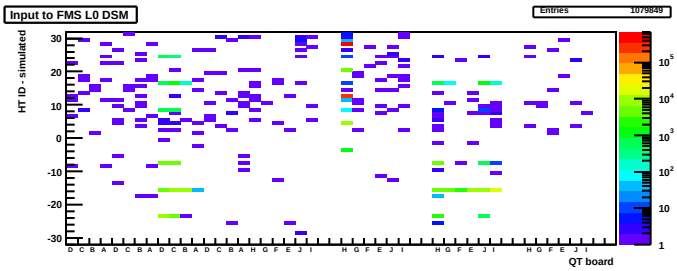

Input to FMS L0 DSM
Entries 4.70461e+07
QT8(3) sum
QT board

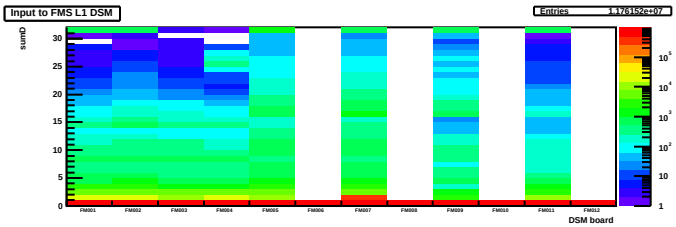

Input to FMS L0 DSM
Entries 950980
QT8(3) sum - simulated
QT board

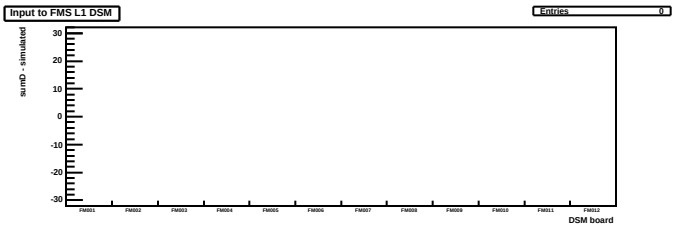

Input to FMS L0 DSM
Entries 4.70461e+07
HT ADC
QT board

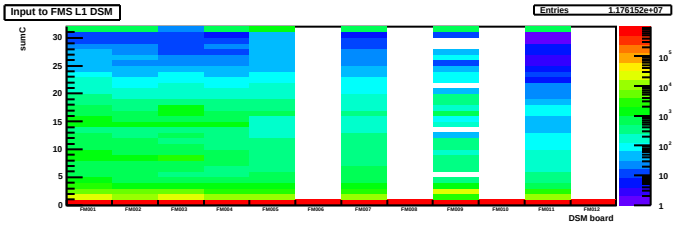

Input to FMS L0 DSM
Entries 94134
HT ADC - simulated
QT board

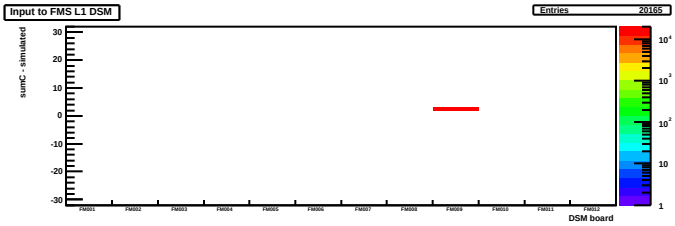

Input to FMS L0 DSM
Entries 4.70461e+07
HT ID
QT board

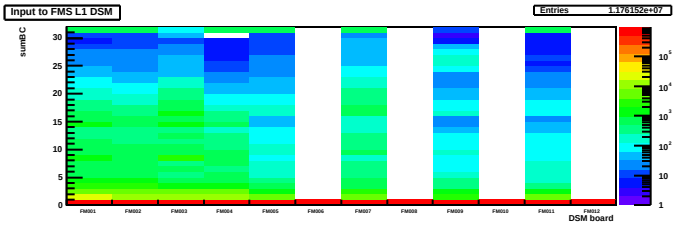

Input to FMS L0 DSM
Entries 1079849
HT ID - simulated
QT board

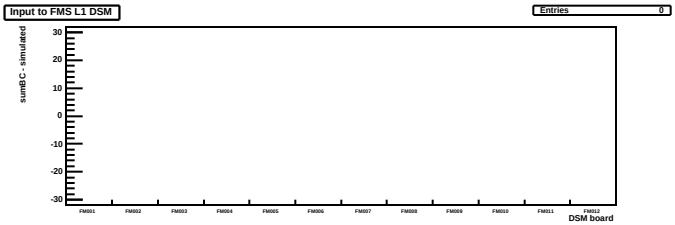

Input to FMS L1 DSM
Entries 1.176152e+07
sumD
DSM board

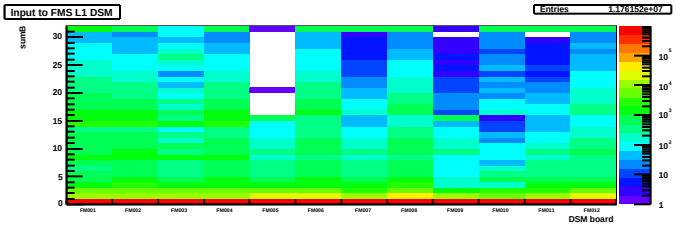

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

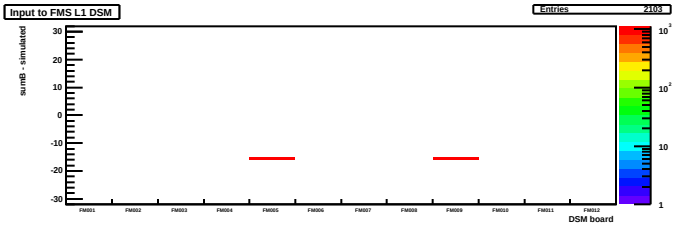

Input to FMS L1 DSM
Entries 1.176152e+07
sumC
DSM board

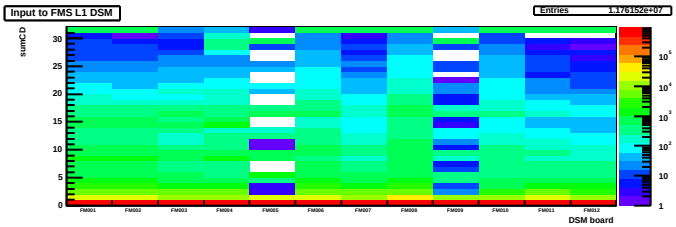

Input to FMS L1 DSM
Entries 20165
sumC - simulated
DSM board

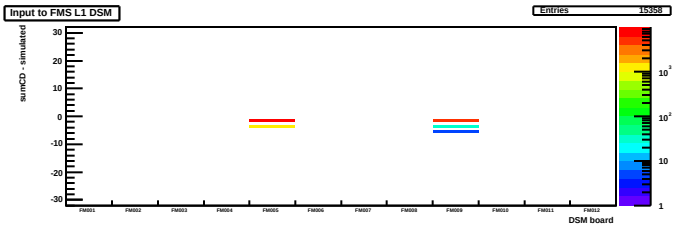

Input to FMS L1 DSM
Entries 1.176152e+07
sumBC
DSM board

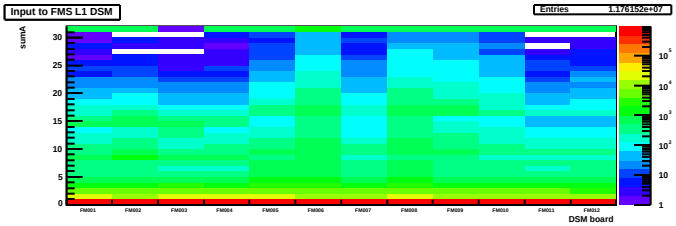

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

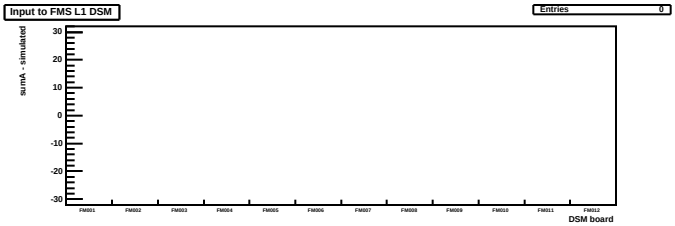

Input to FMS L1 DSM
Entries 1.176152e+07
sumB
DSM board

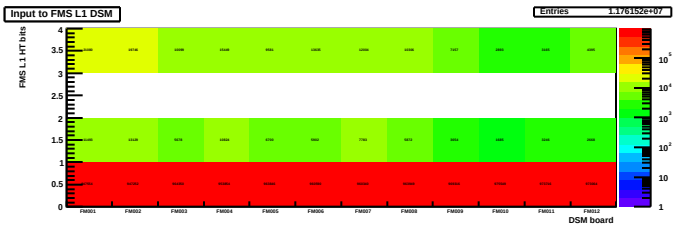

Input to FMS L1 DSM
Entries 2103
sumB - simulated
DSM board

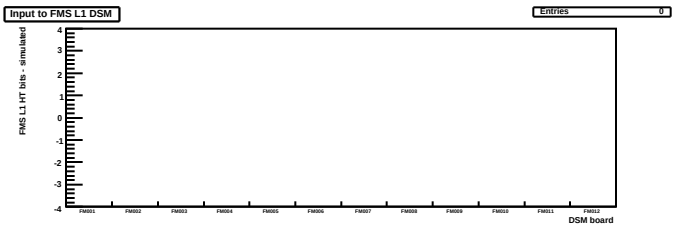

Input to FMS L1 DSM
Entries 1.176152e+07
sumCD
DSM board

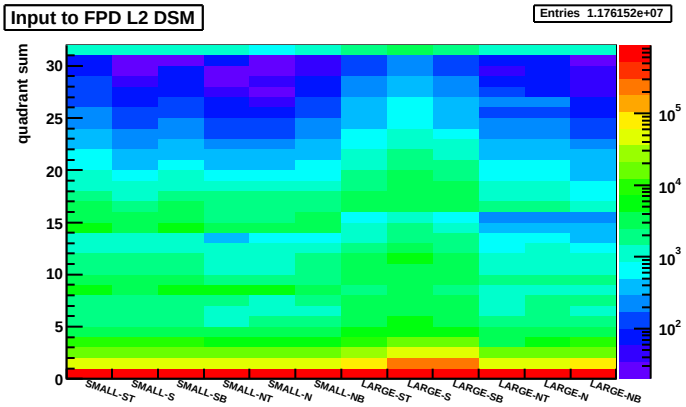

Input to FMS L1 DSM
Entries 15358
sumCD - simulated
DSM board

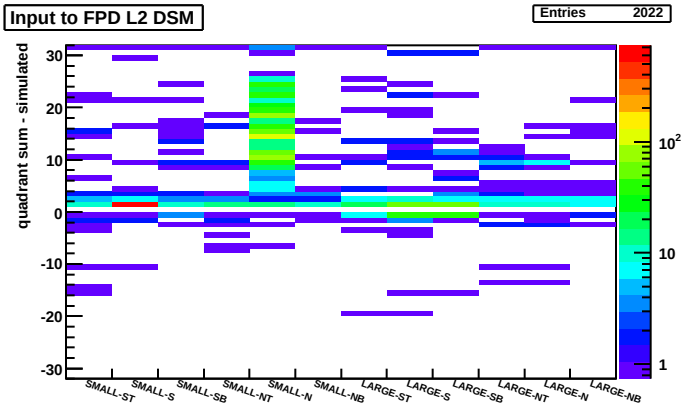

Input to FMS L1 DSM
Entries 1.176152e+07
sumA
DSM board

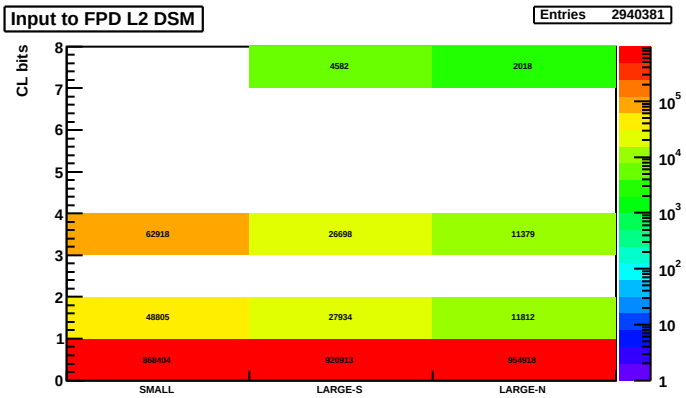

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

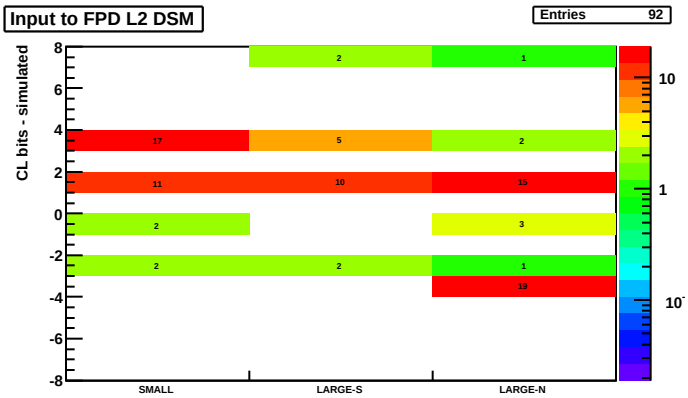

Input to FMS L1 DSM
Entries 1.176152e+07
FMS L1 HT bits
DSM board

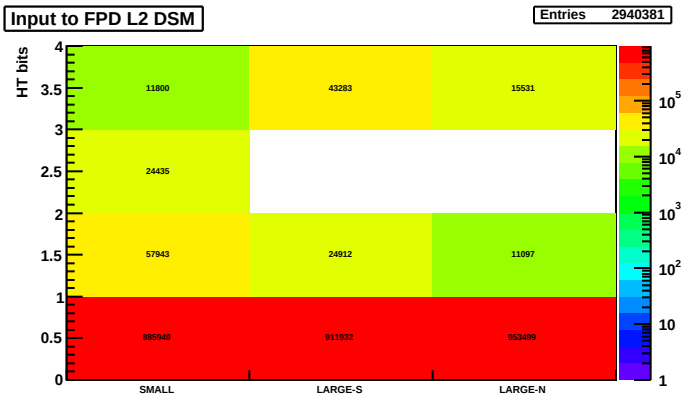

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

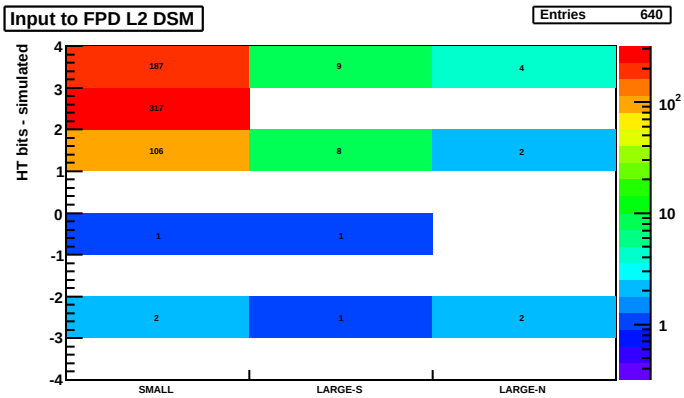

Input to FPD L2 DSM
Entries 1.176152e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

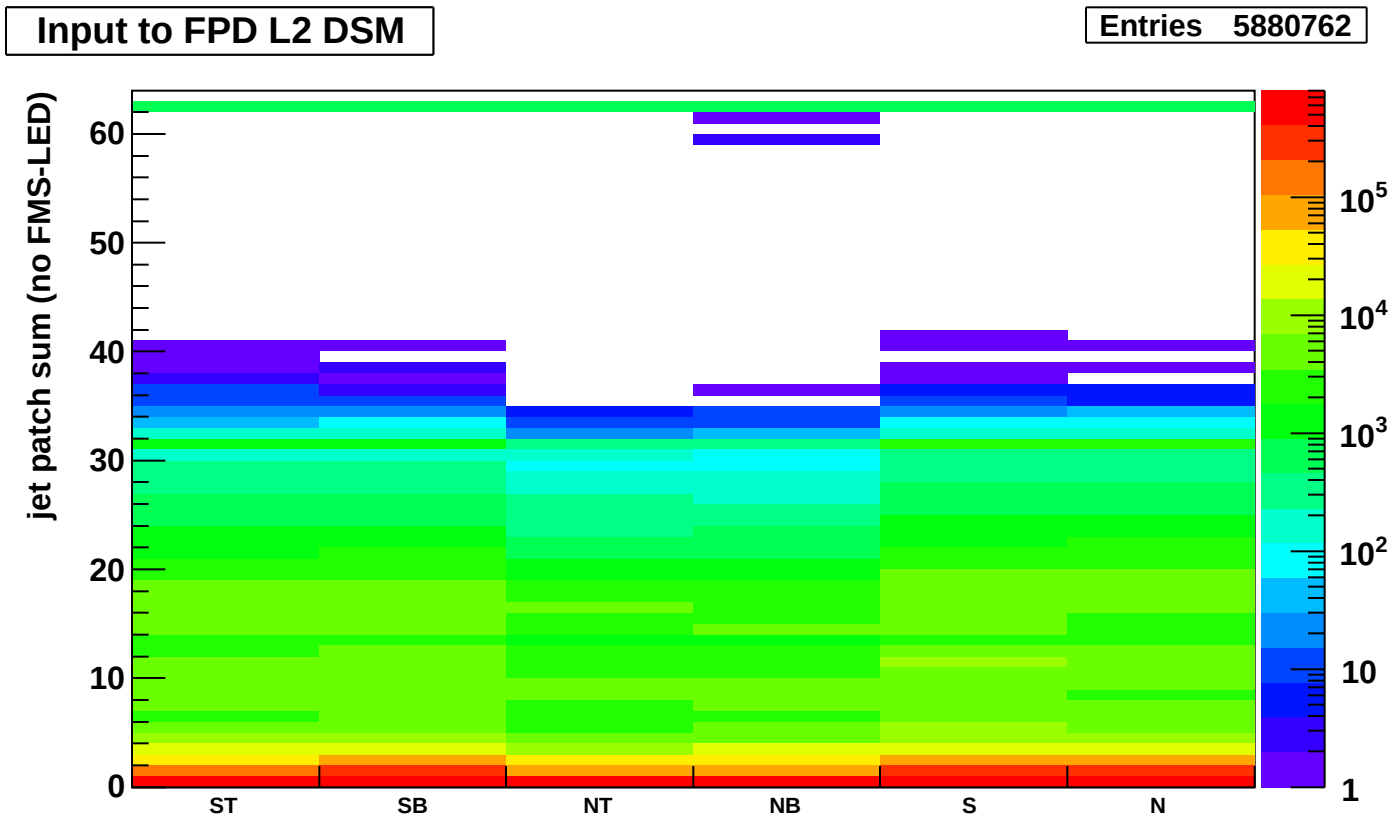

Input to FPD L2 DSM
Entries 2022
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

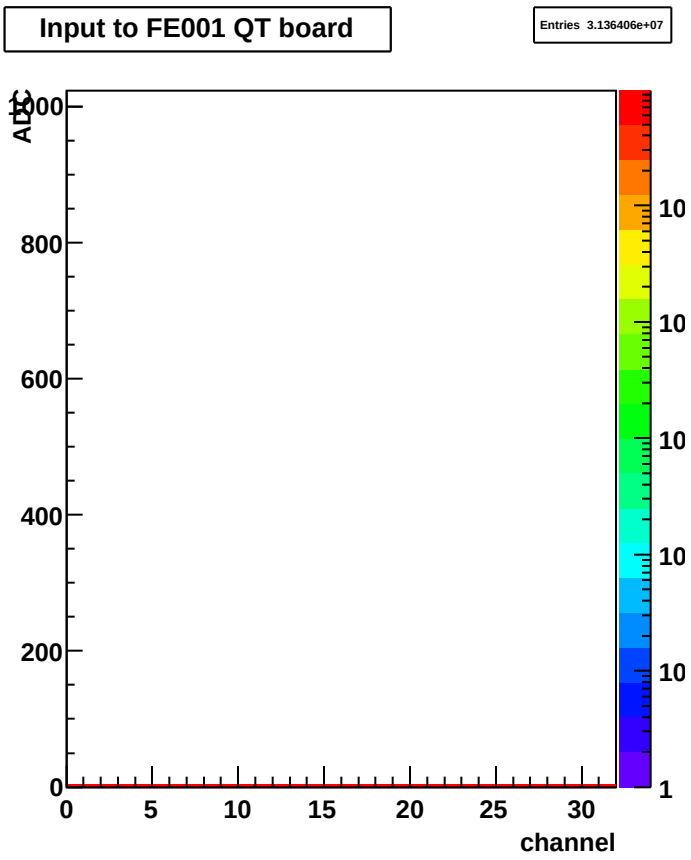

Input to FPD L2 DSM
Entries 2940381
CL bits
4582
2018
62918
26698
11379
48805
27934
11812
869404
920913
954918
SMALL
LARGE-S
LARGE-N

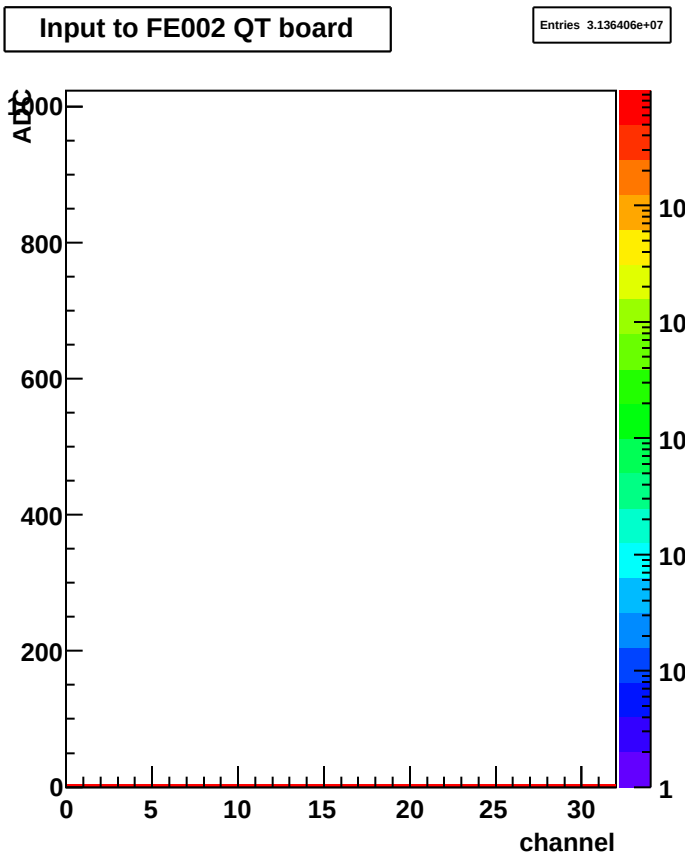

Input to FPD L2 DSM
Entries 92
CL bits - simulated
2
1
17
5
2
11
10
15
2
3
2
2
1
19
SMALL
LARGE-S
LARGE-N

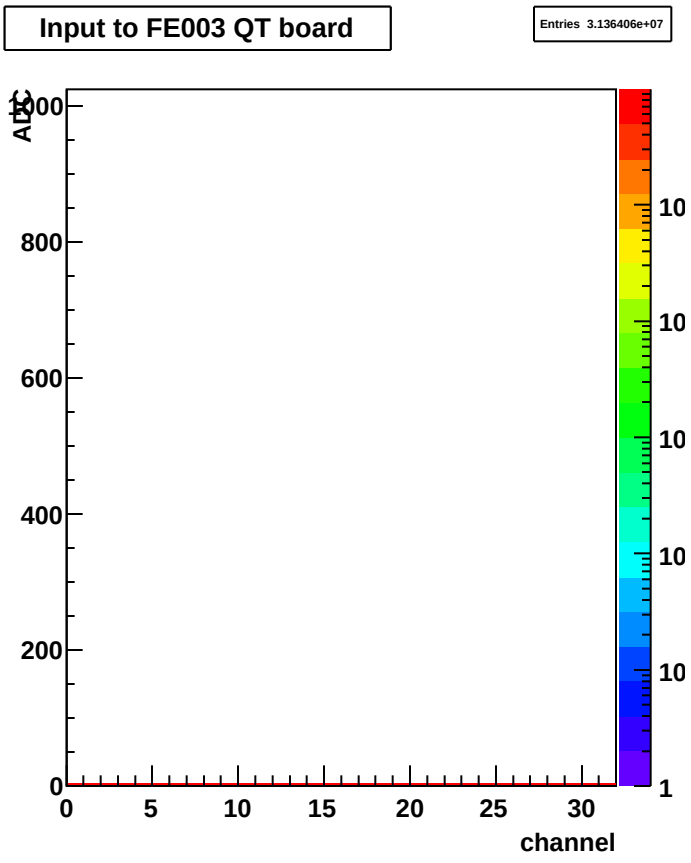

Input to FPD L2 DSM
Entries 2940381
HT bits
11800
43283
15531
24435
57943
24912
11097
885949
911932
953499
SMALL
LARGE-S
LARGE-N

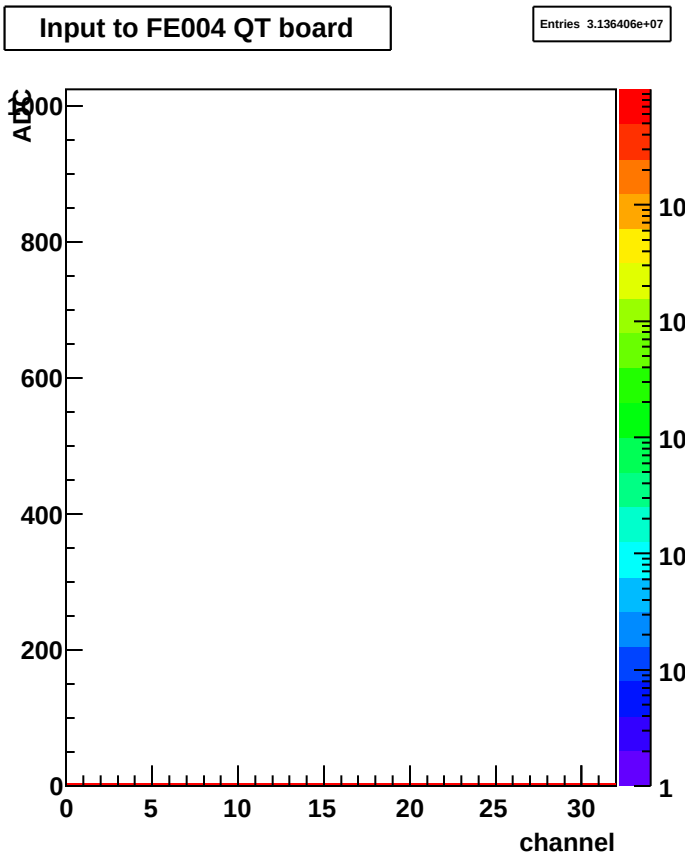

Input to FPD L2 DSM
Entries 640
HT bits - simulated
187
9
4
317
106
8
2
1
1
2
1
2
SMALL
LARGE-S
LARGE-N

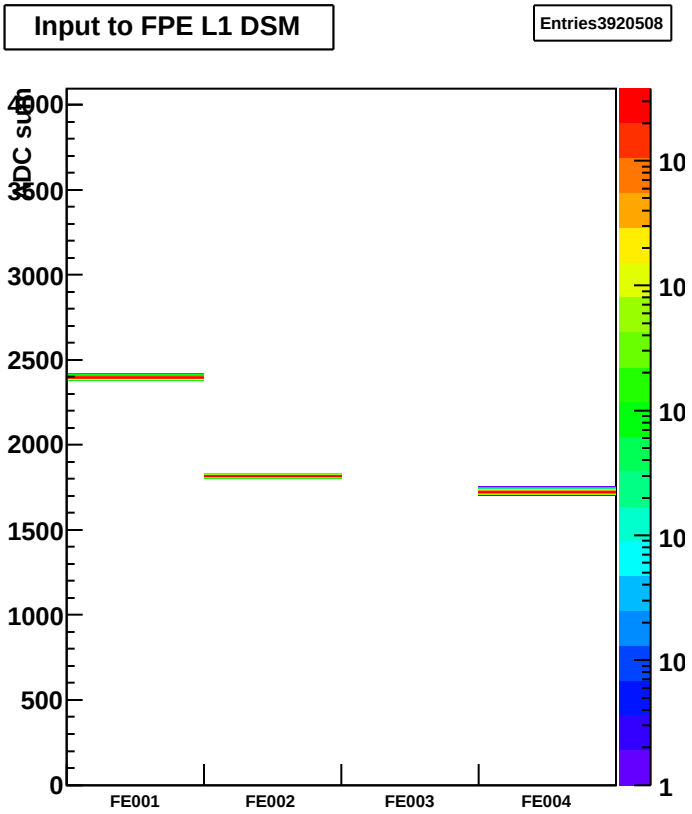

Input to FPD L2 DSM
Entries 5880762
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

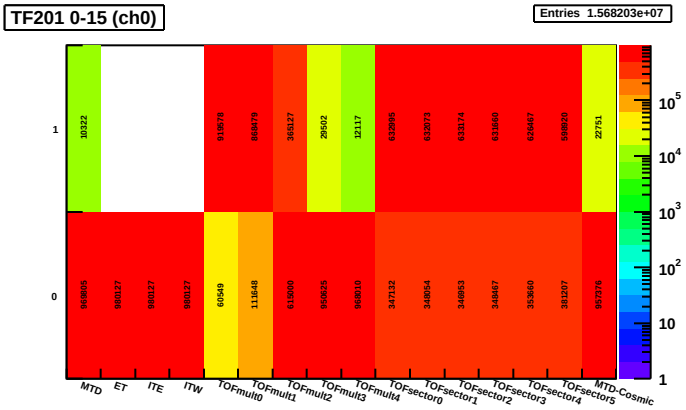

Input to FE001 QT board
Entries 3.136406e+07
ADC
channel

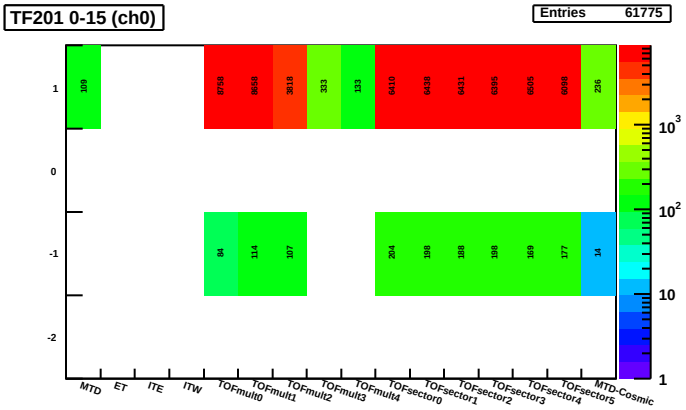

Input to FE002 QT board
Entries 3.136406e+07
ADC
channel

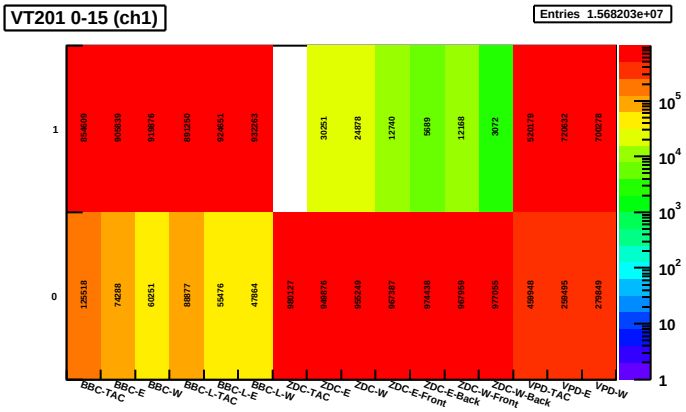

Input to FE003 QT board
Entries 3.136406e+07
ADC
channel

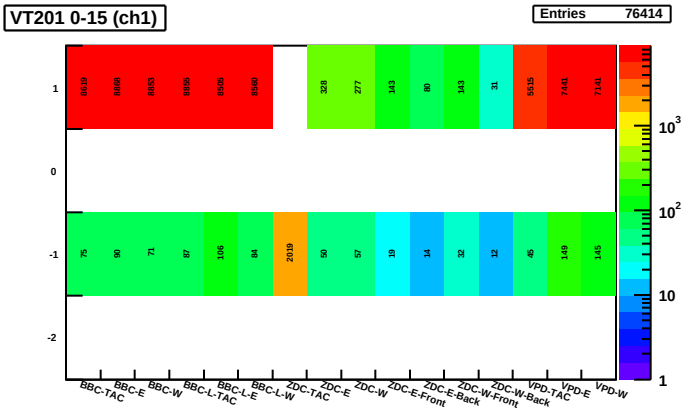

Input to FE004 QT board
Entries 3.136406e+07
ADC
channel


Input to FPE L1 DSM
Entries3920508
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 1.568203e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 61775
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.568203e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W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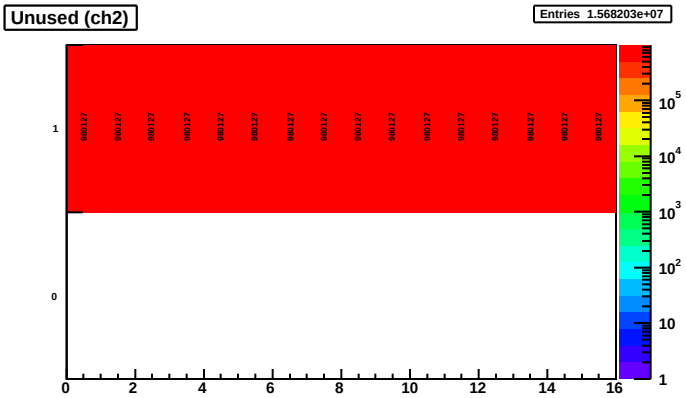
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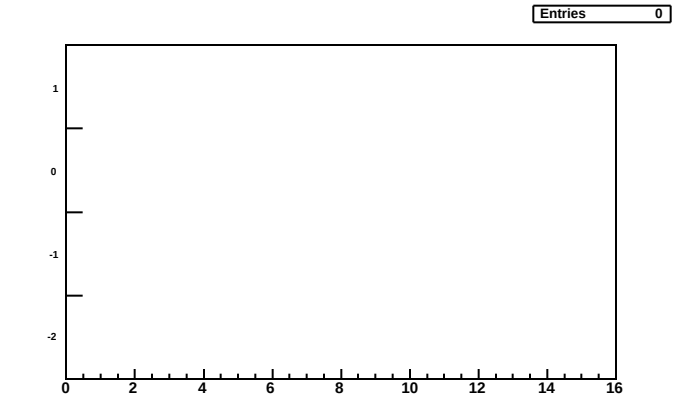
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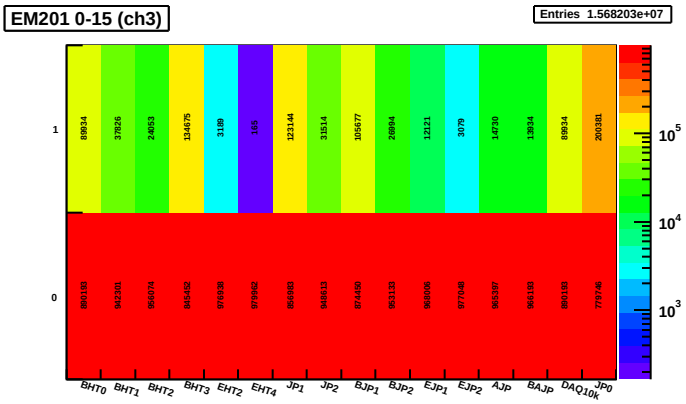
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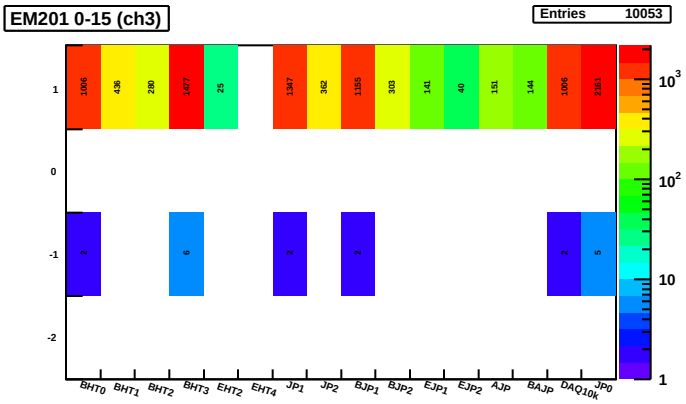
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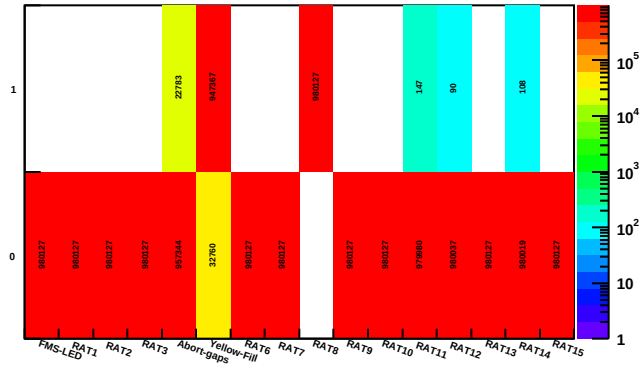
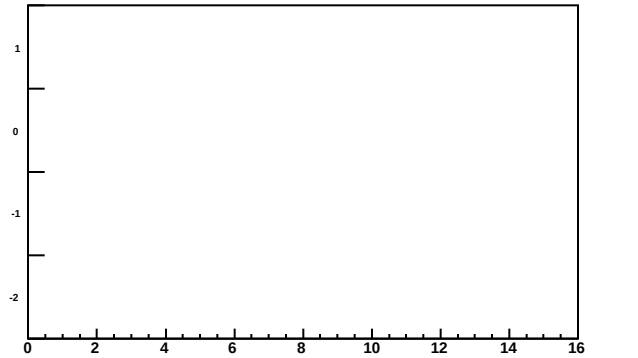
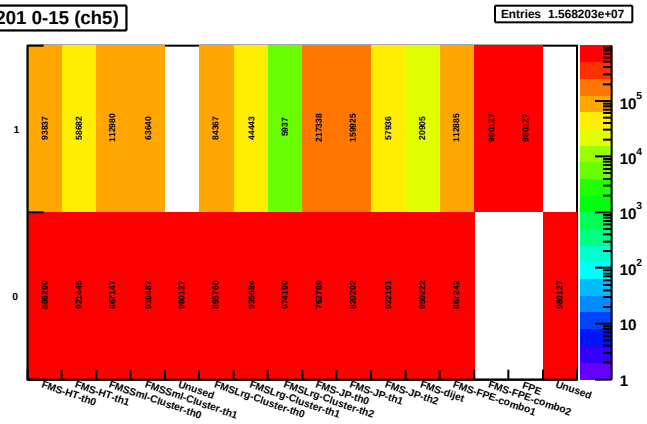
RAT board (ch4)





FP201 0-15 (ch5)



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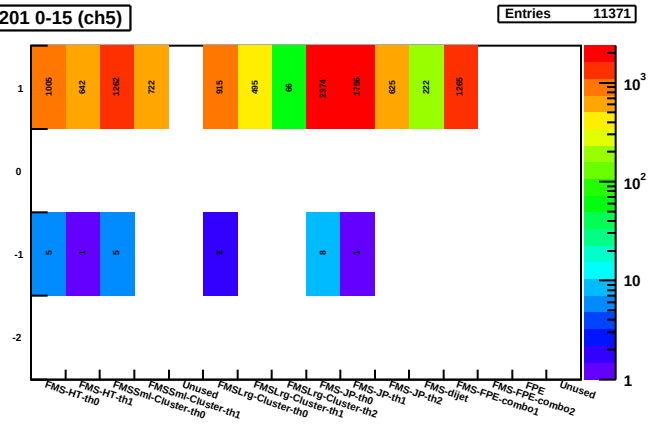
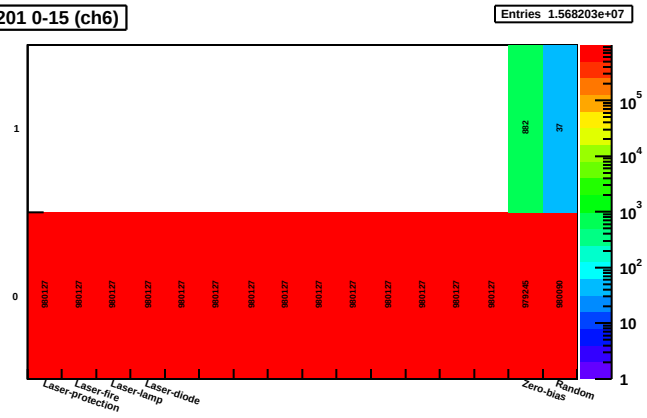
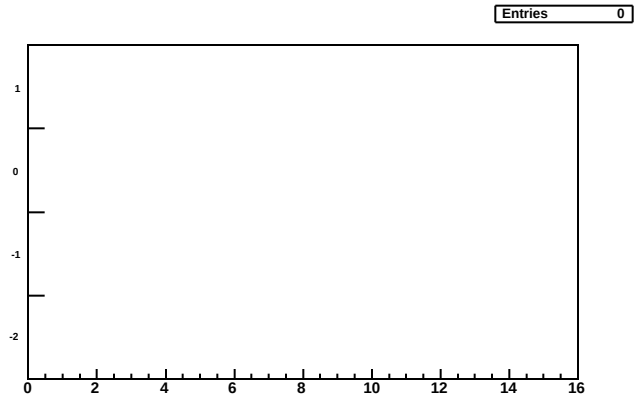
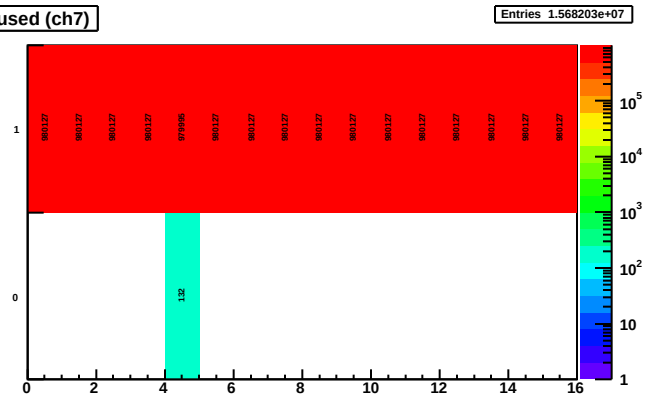
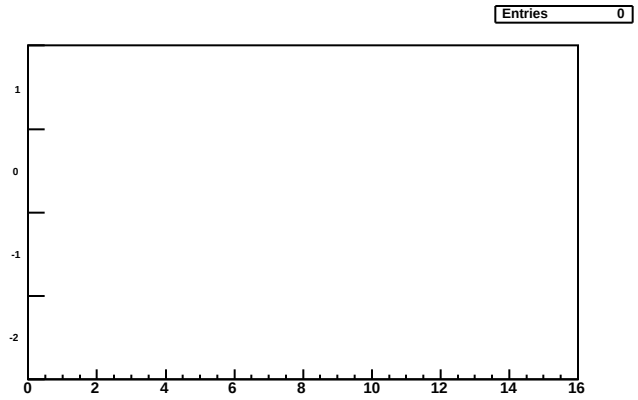


ST201 0-15 (ch6)





Unused (ch7)