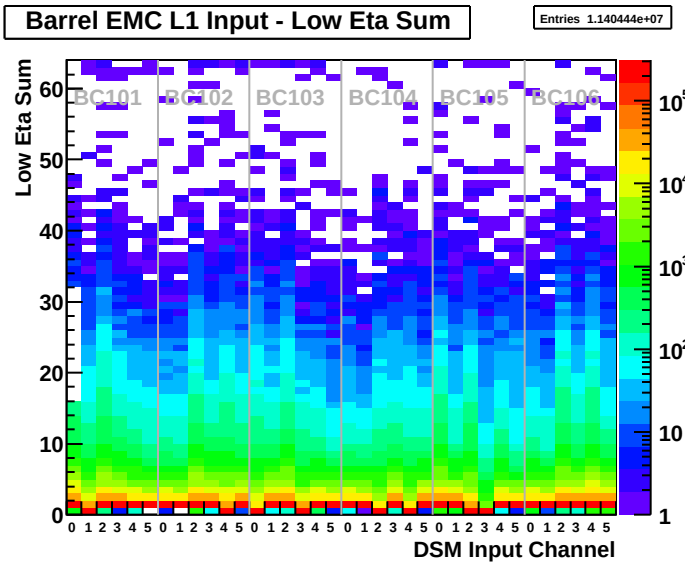
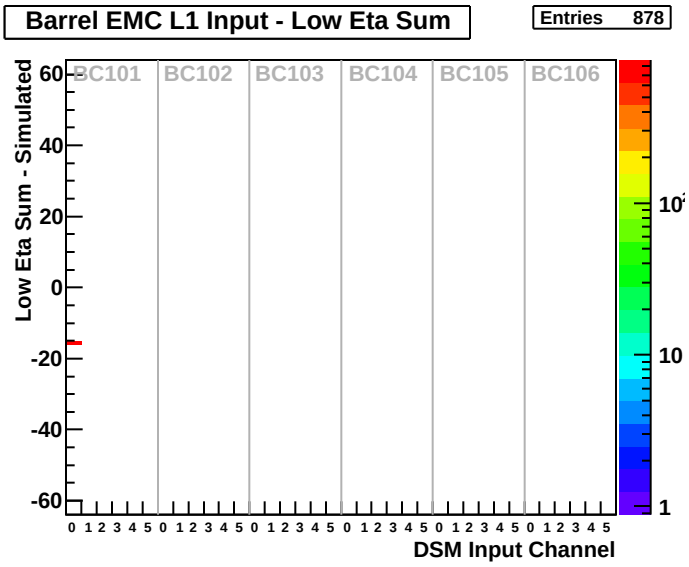
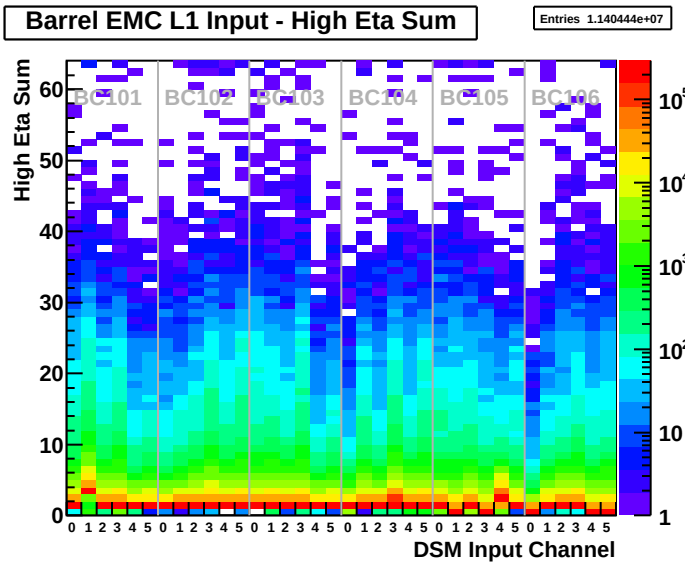
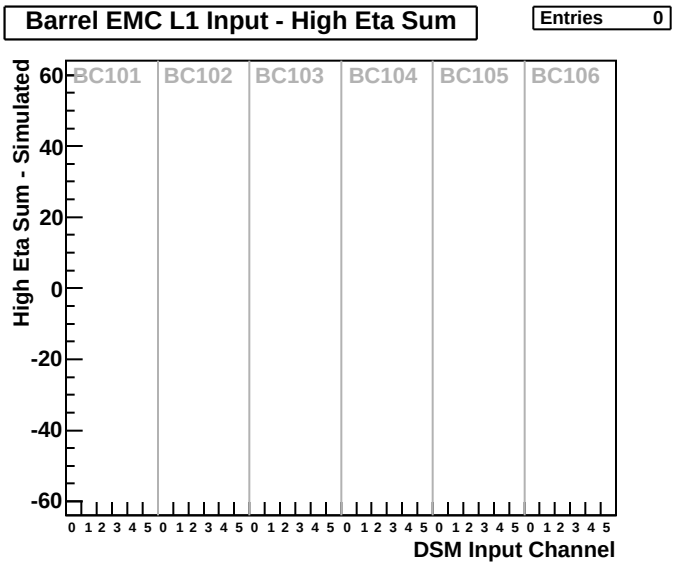
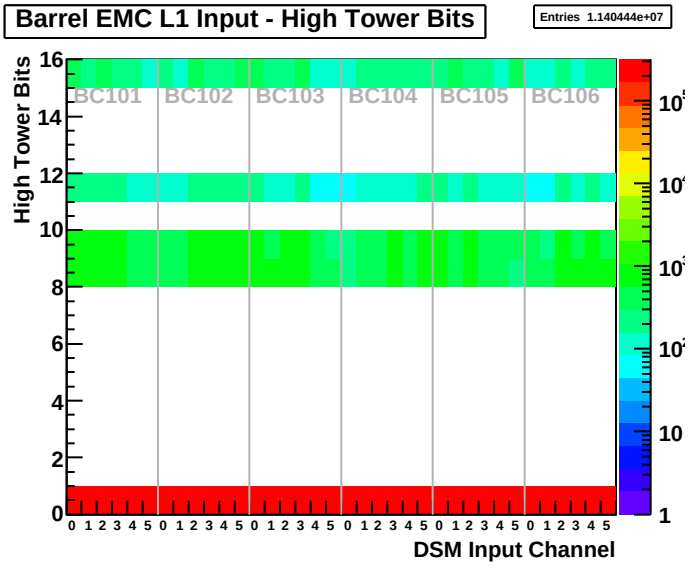
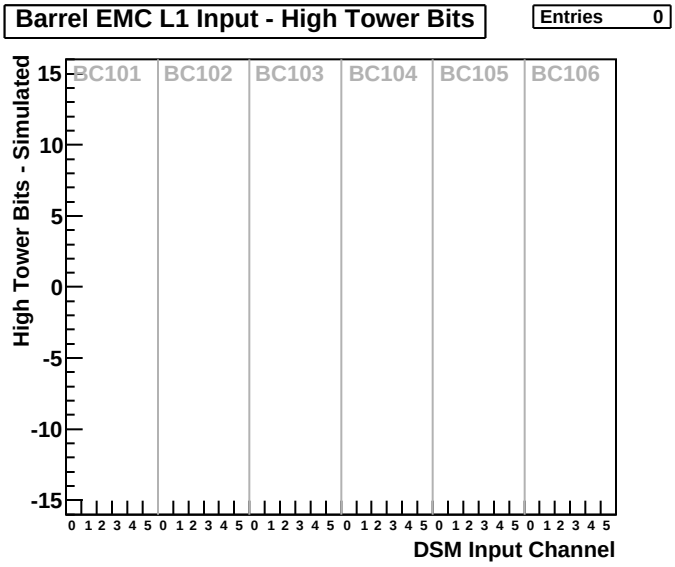

Barrel EMC L1 Input - Low Eta Sum
Entries 1.140444e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

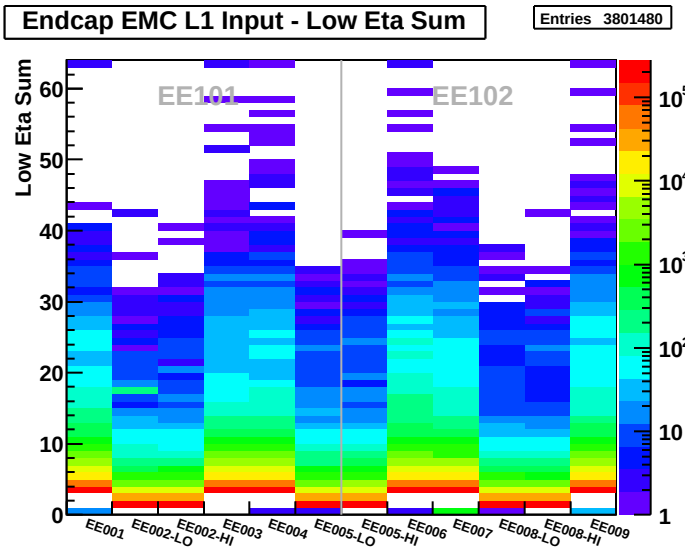

Barrel EMC L1 Input - Low Eta Sum
Entries 878
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

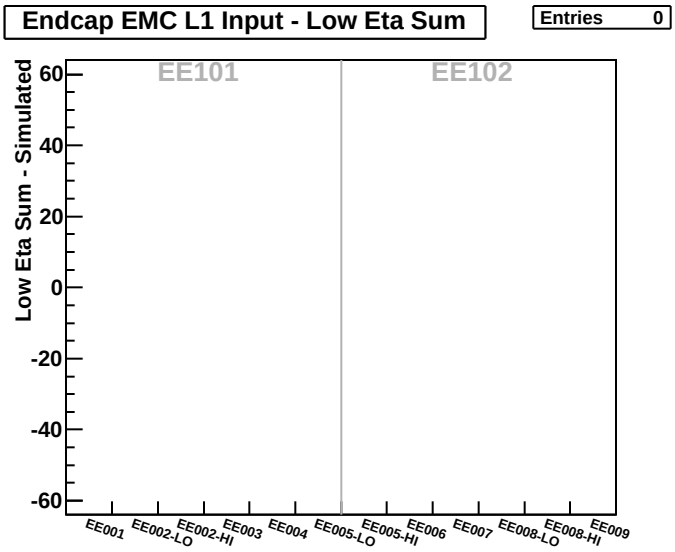

Barrel EMC L1 Input - High Eta Sum
Entries 1.140444e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

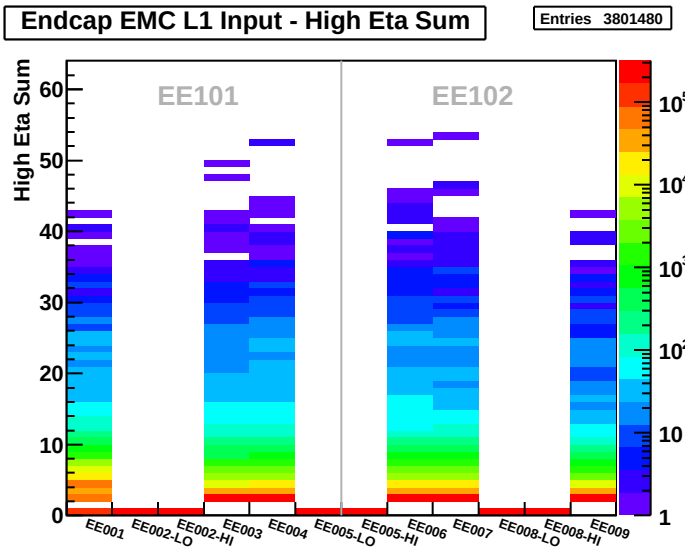

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

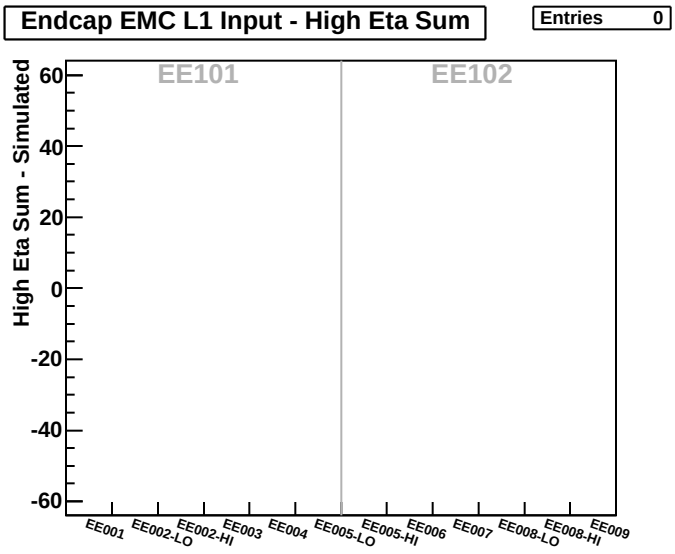

Barrel EMC L1 Input - High Tower Bits
Entries 1.140444e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

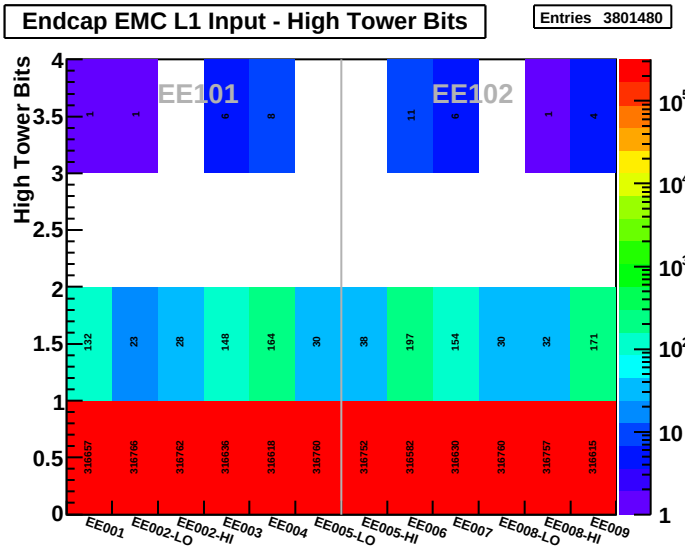

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

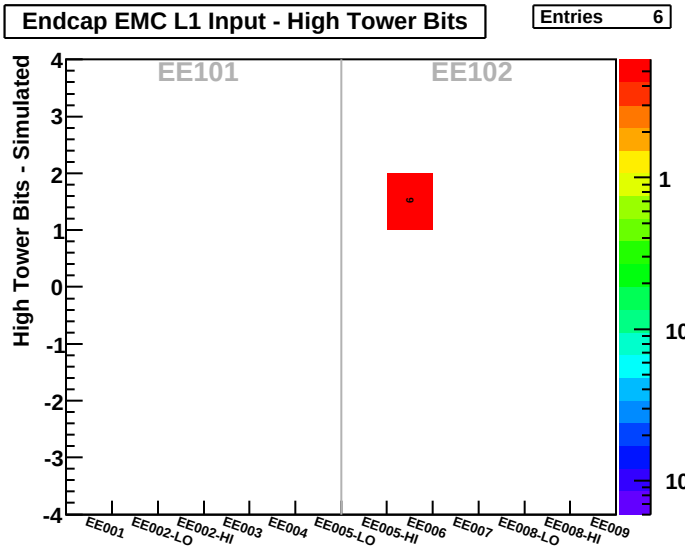

Endcap EMC L1 Input - Low Eta Sum
Entries 3801480
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

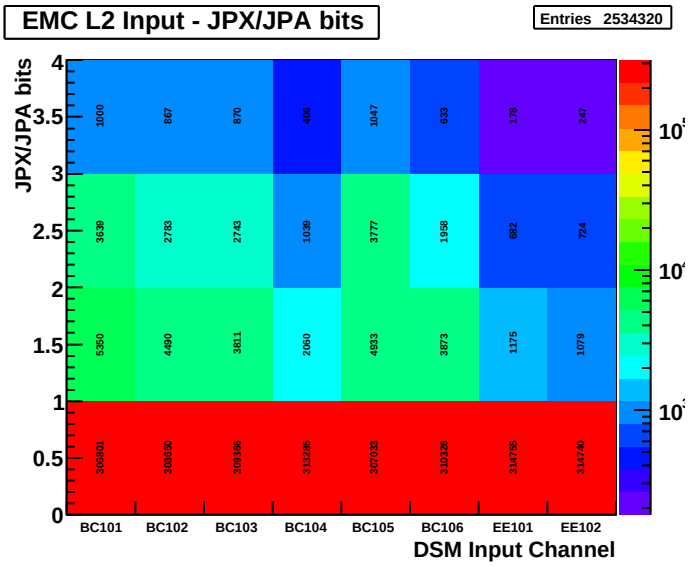

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

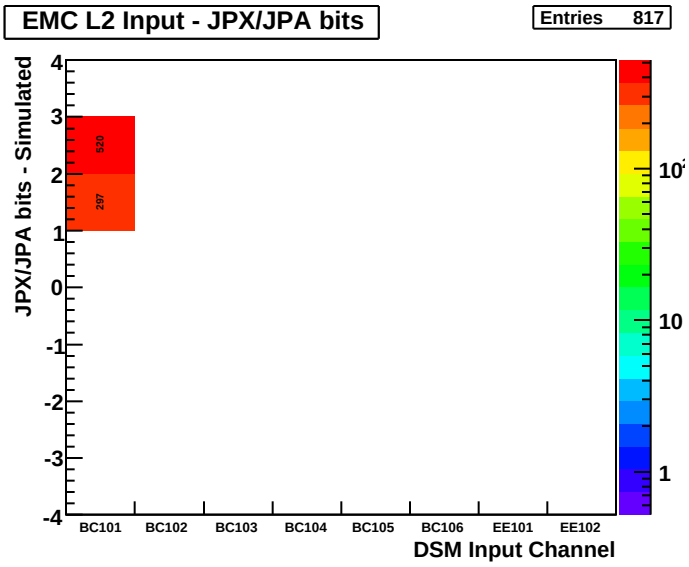

Endcap EMC L1 Input - High Eta Sum
Entries 3801480
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

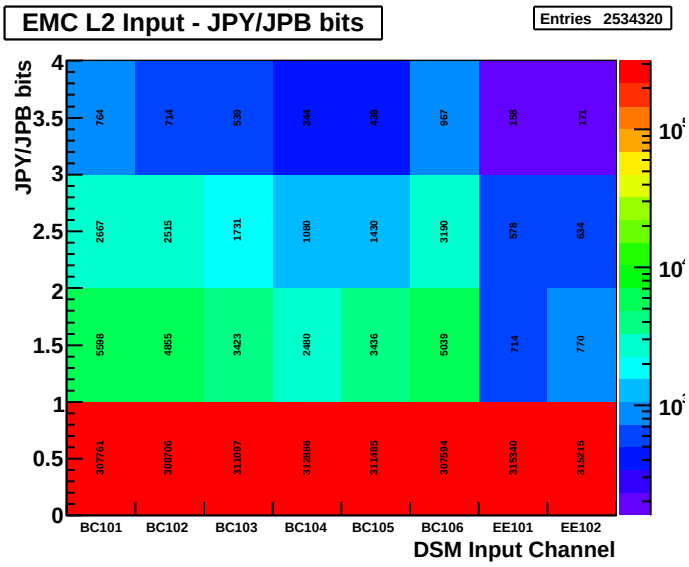

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

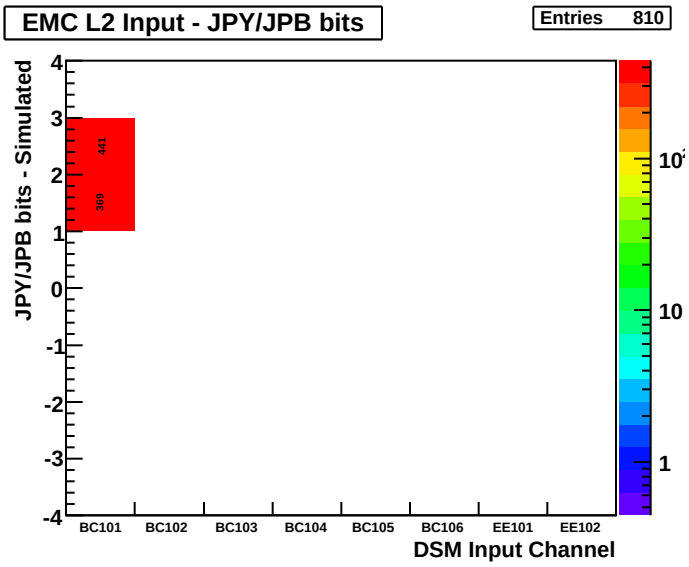

Endcap EMC L1 Input - High Tower Bits
Entries 3801480
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

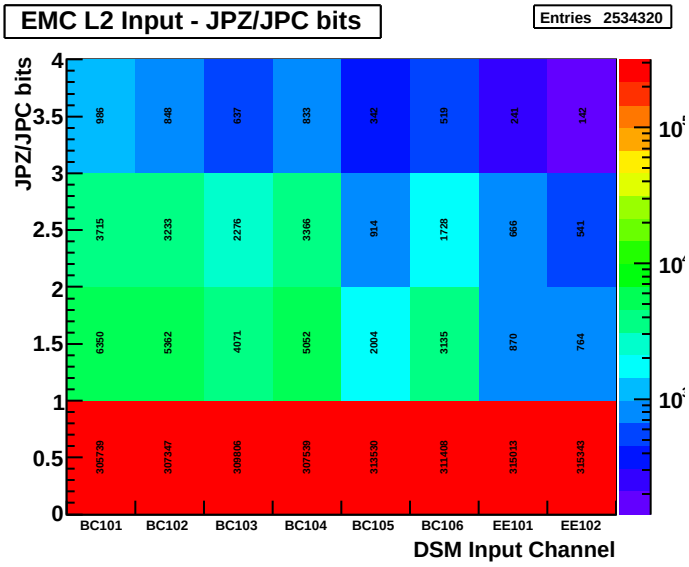

Endcap EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

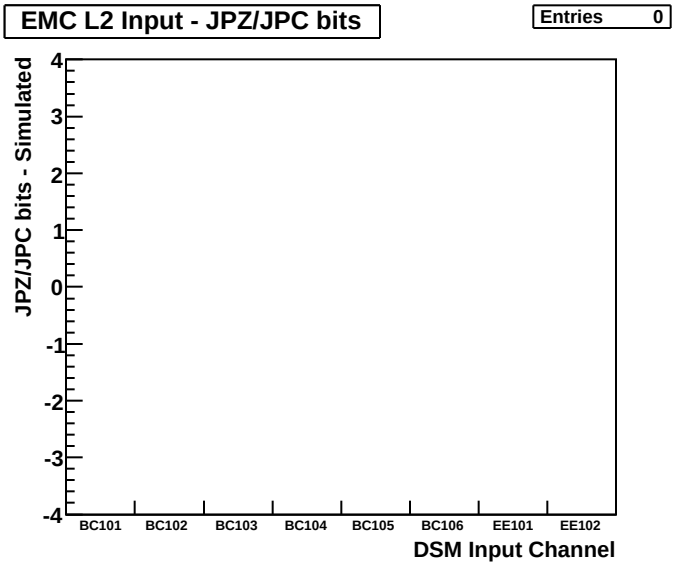

EMC L2 Input - JPX/JPA bits
Entries 2534320
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1000 867 870 406 1047 633 178 247
3639 2783 2743 1039 3777 1958 682 724
5350 4490 3811 2060 4933 3873 1175 1079
306801 308650 308366 313285 307033 310326 314755 314740

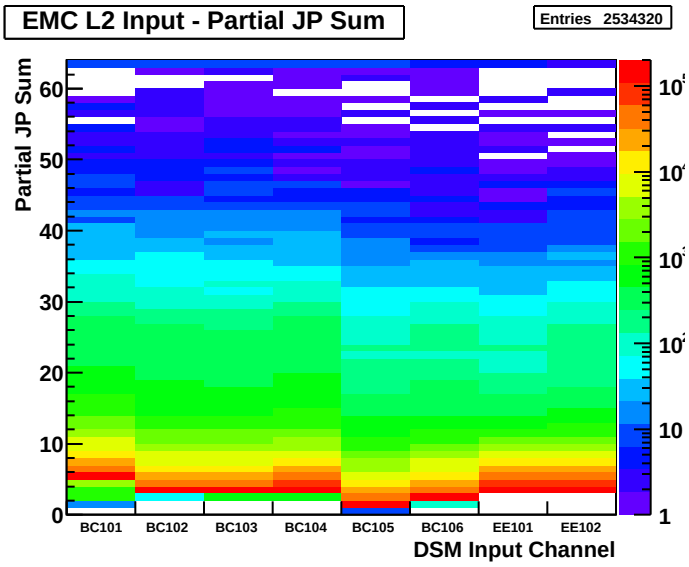

EMC L2 Input - JPX/JPA bits
Entries 817
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
520
297

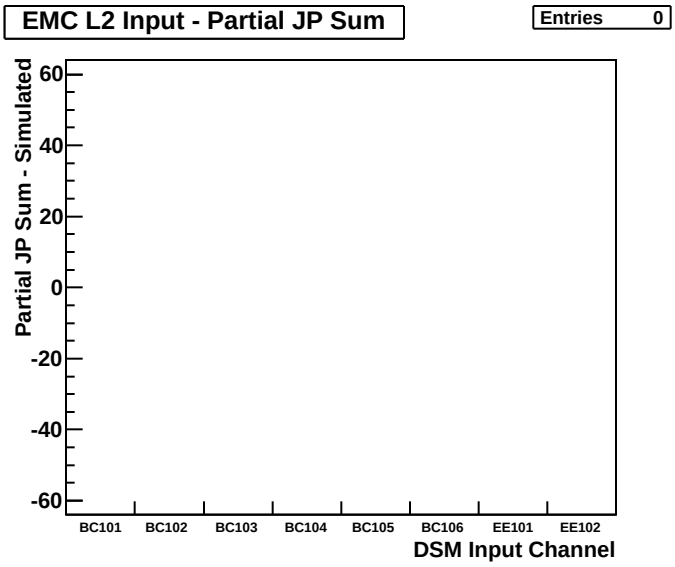

EMC L2 Input - JPY/JPB bits
Entries 2534320
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
764 714 539 344 439 967 158 171
2667 2515 1731 1080 1430 3190 578 634
5598 4855 3423 2480 3436 5039 714 770
307761 308706 311097 312886 311485 307594 315340 315215

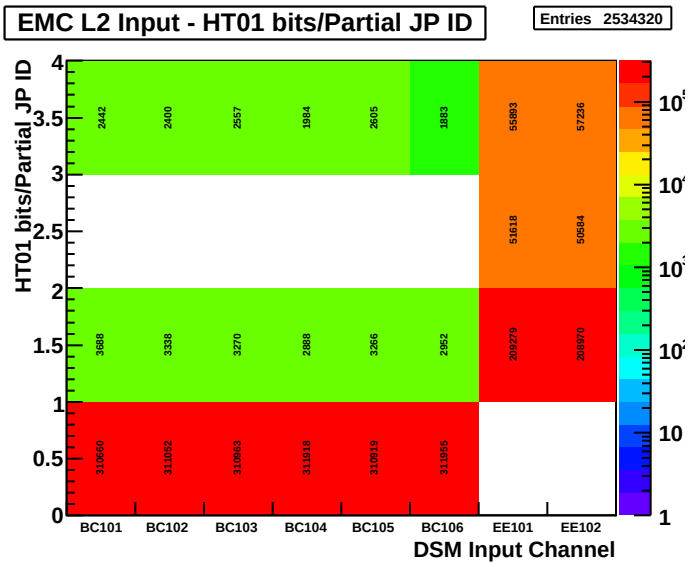

EMC L2 Input - JPY/JPB bits
Entries 810
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
441
369

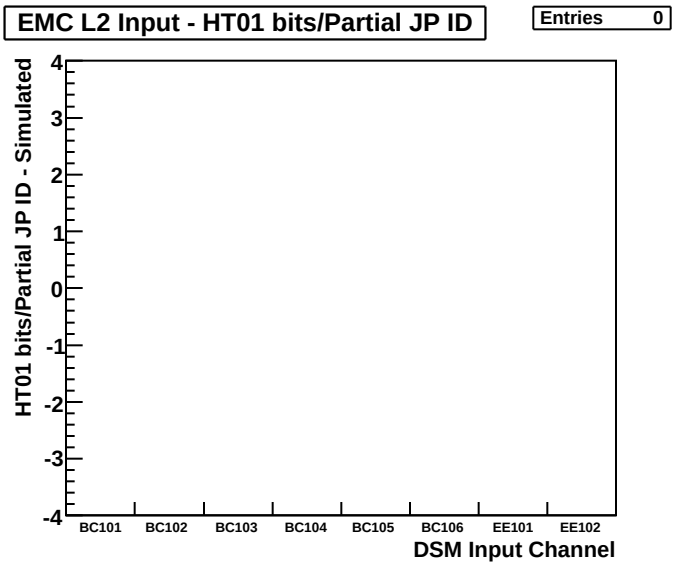

EMC L2 Input - JPZ/JPC bits
Entries 2534320
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
986 848 637 833 342 519 241 142
3715 3233 2276 3366 914 1728 666 541
6350 5362 4071 5062 2004 3135 870 764
305739 307347 309806 307539 313530 311408 315013 315343

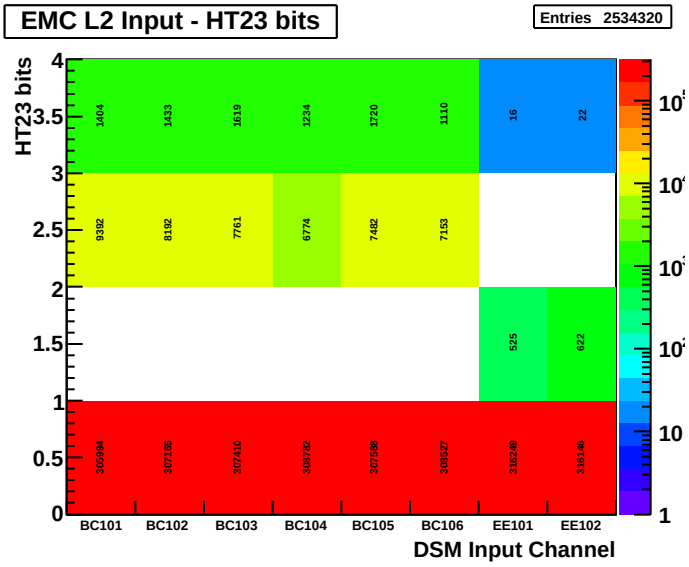

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

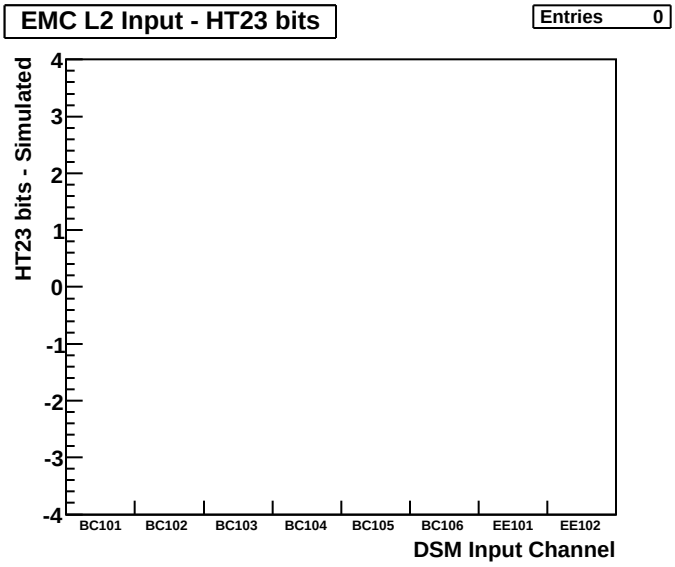

EMC L2 Input - Partial JP Sum
Entries 2534320
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

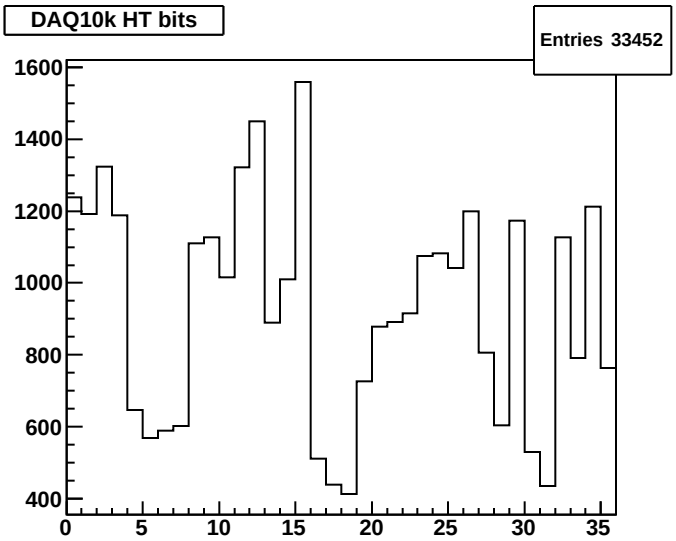

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

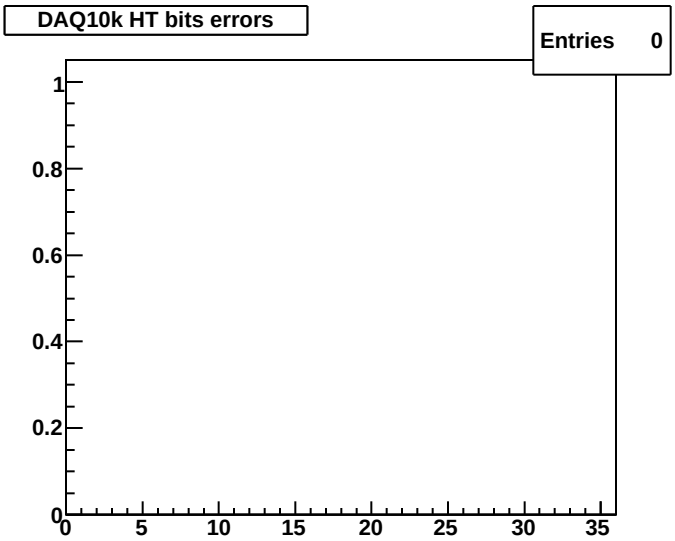

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2534320
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

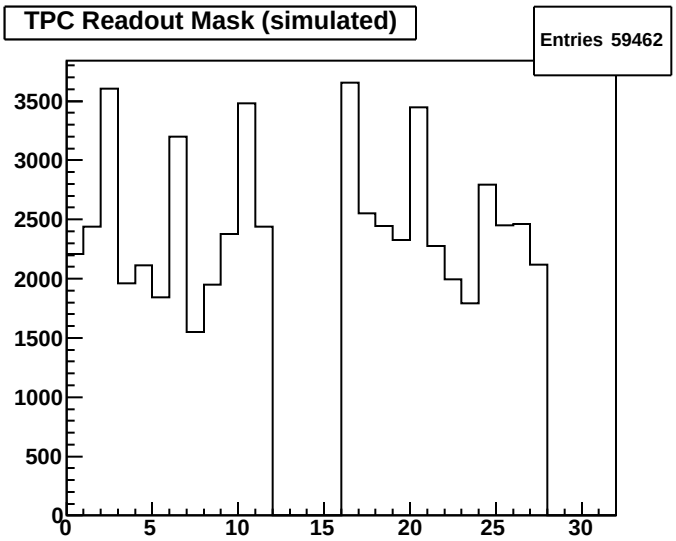

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

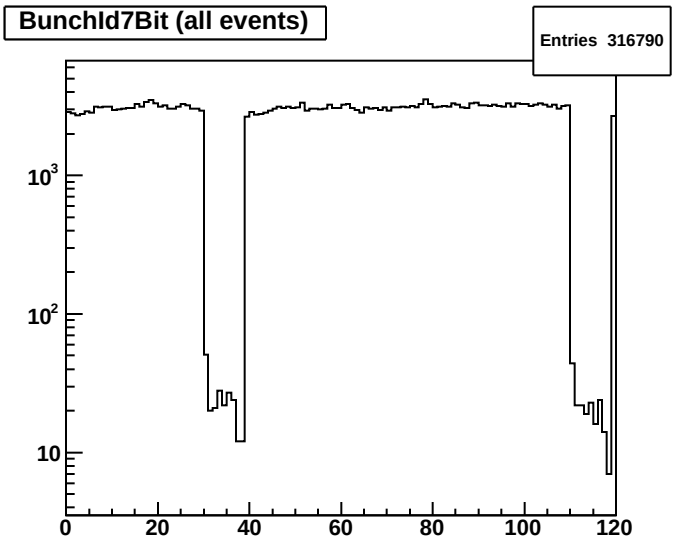

EMC L2 Input - HT23 bits
Entries 2534320
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

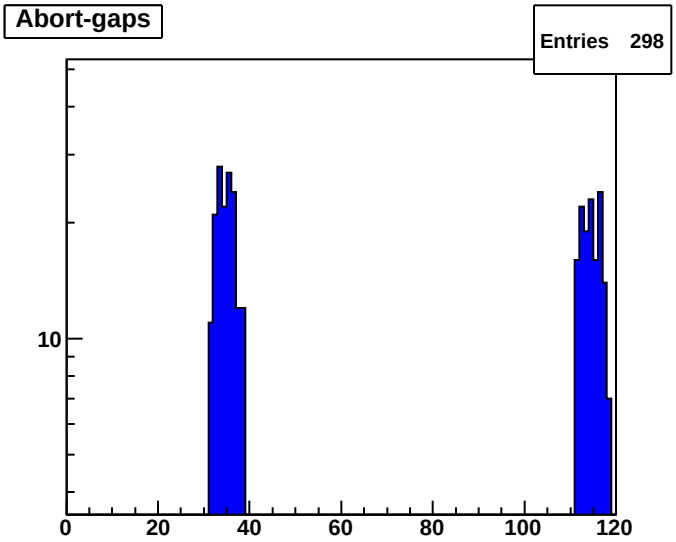

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

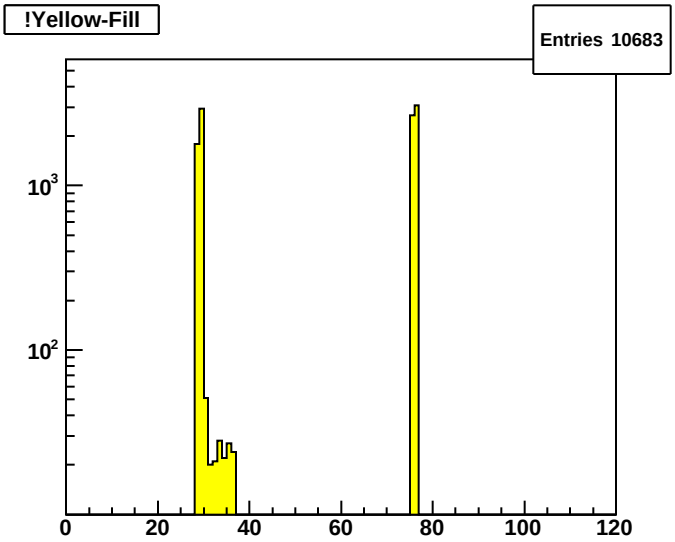

DAQ10k HT bits
Entries 33452

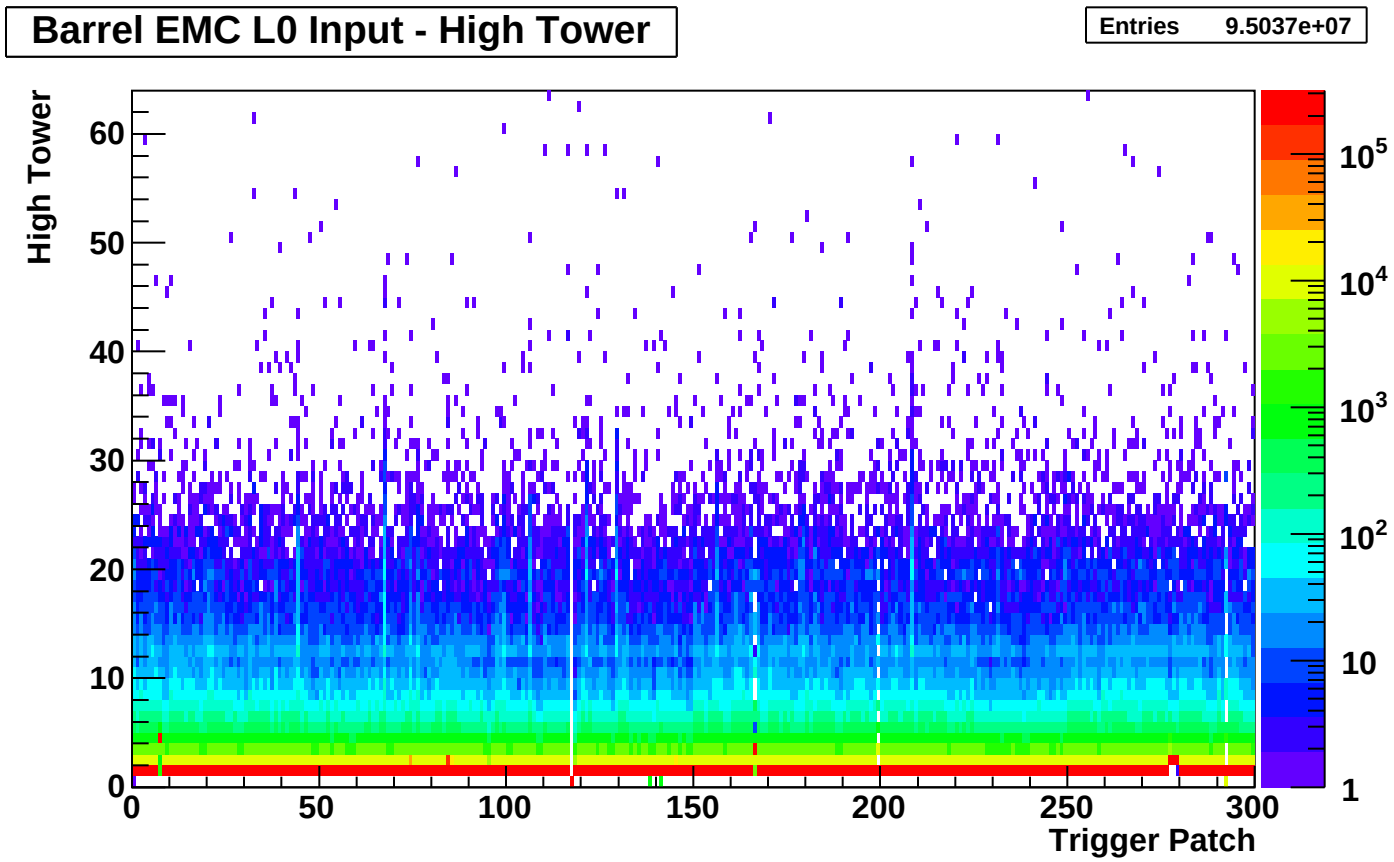

DAQ10k HT bits errors
Entries 0

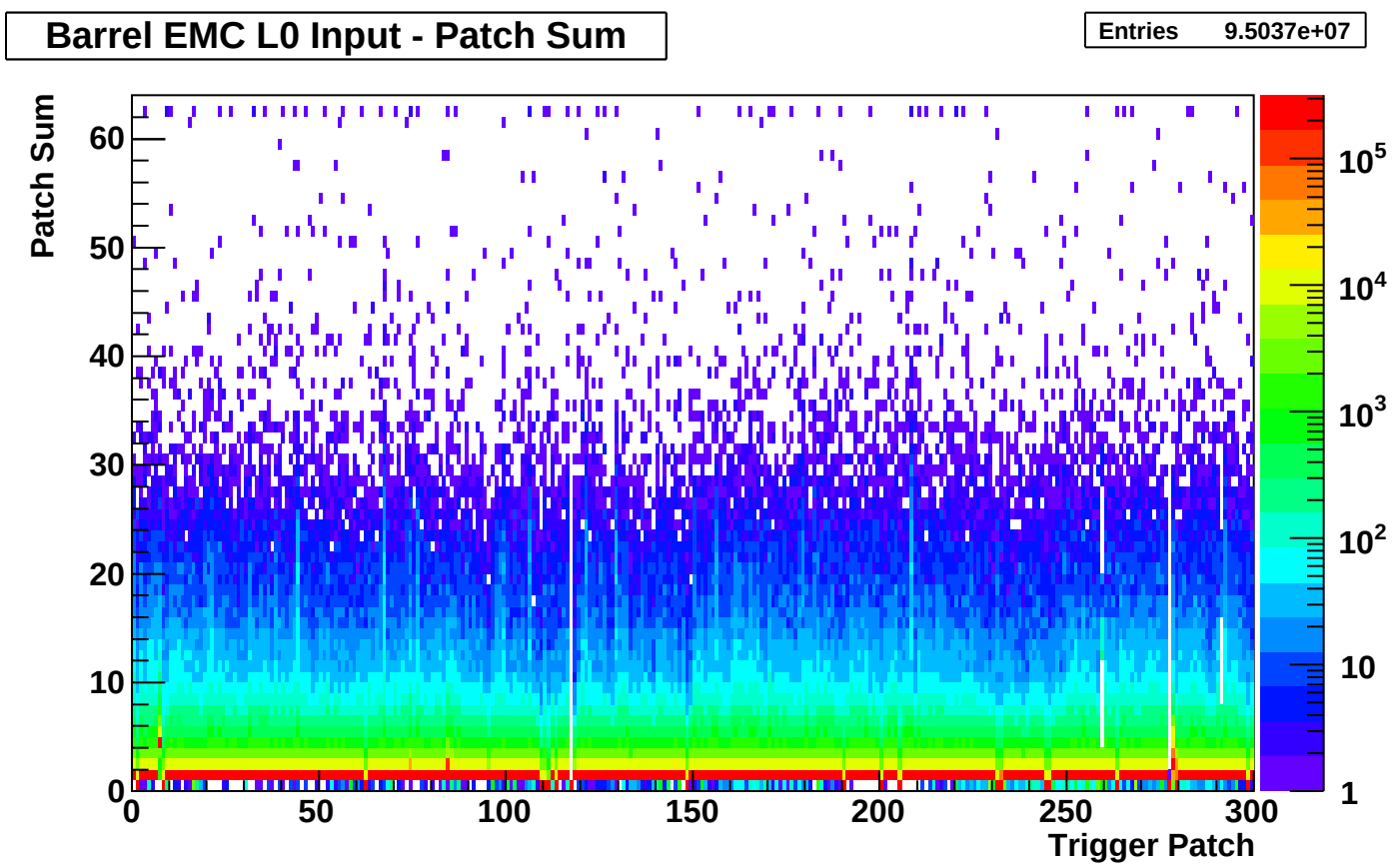

TPC Readout Mask (simulated)
Entries 59462

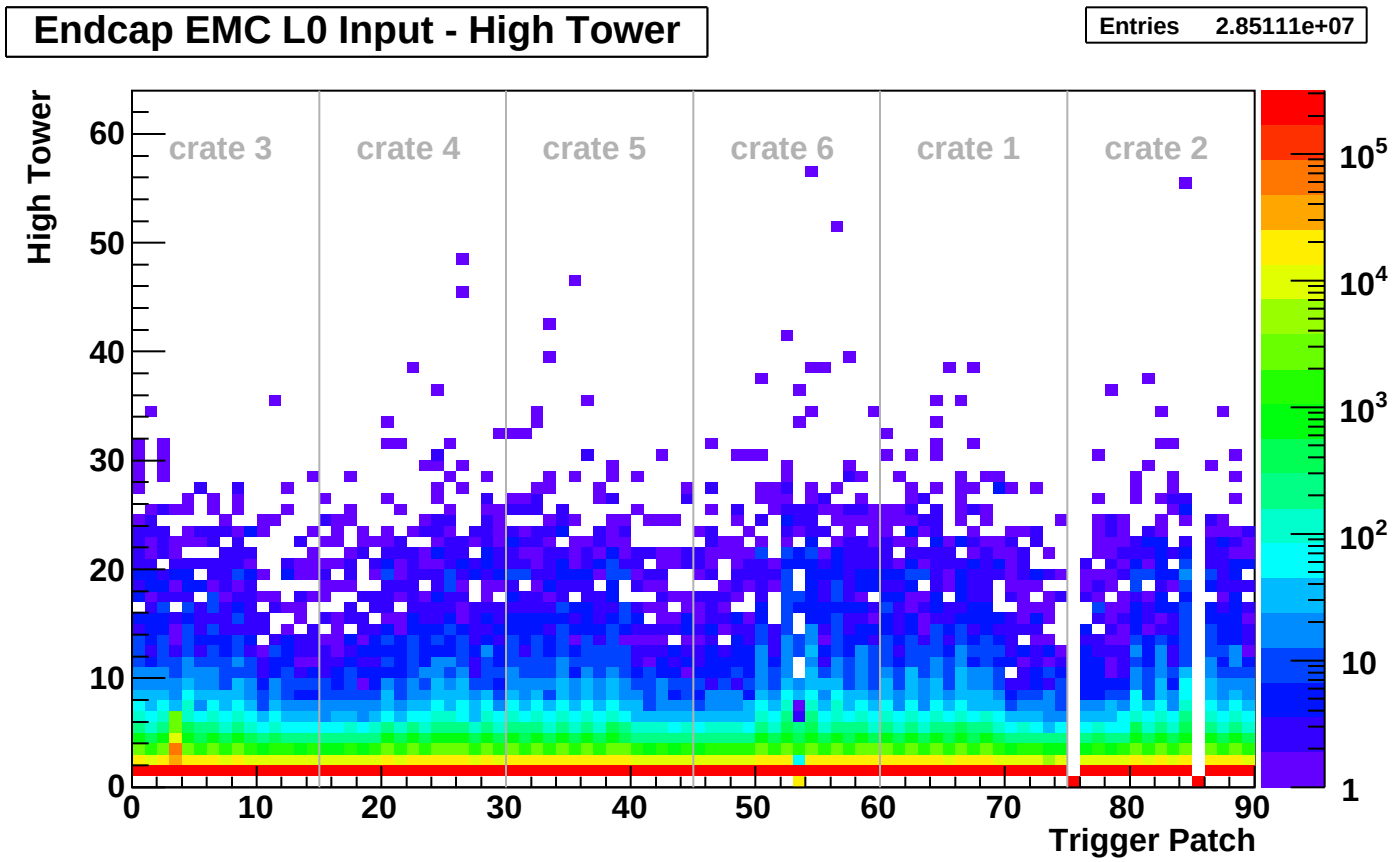

BunchId7Bit (all events)
Entries 316790

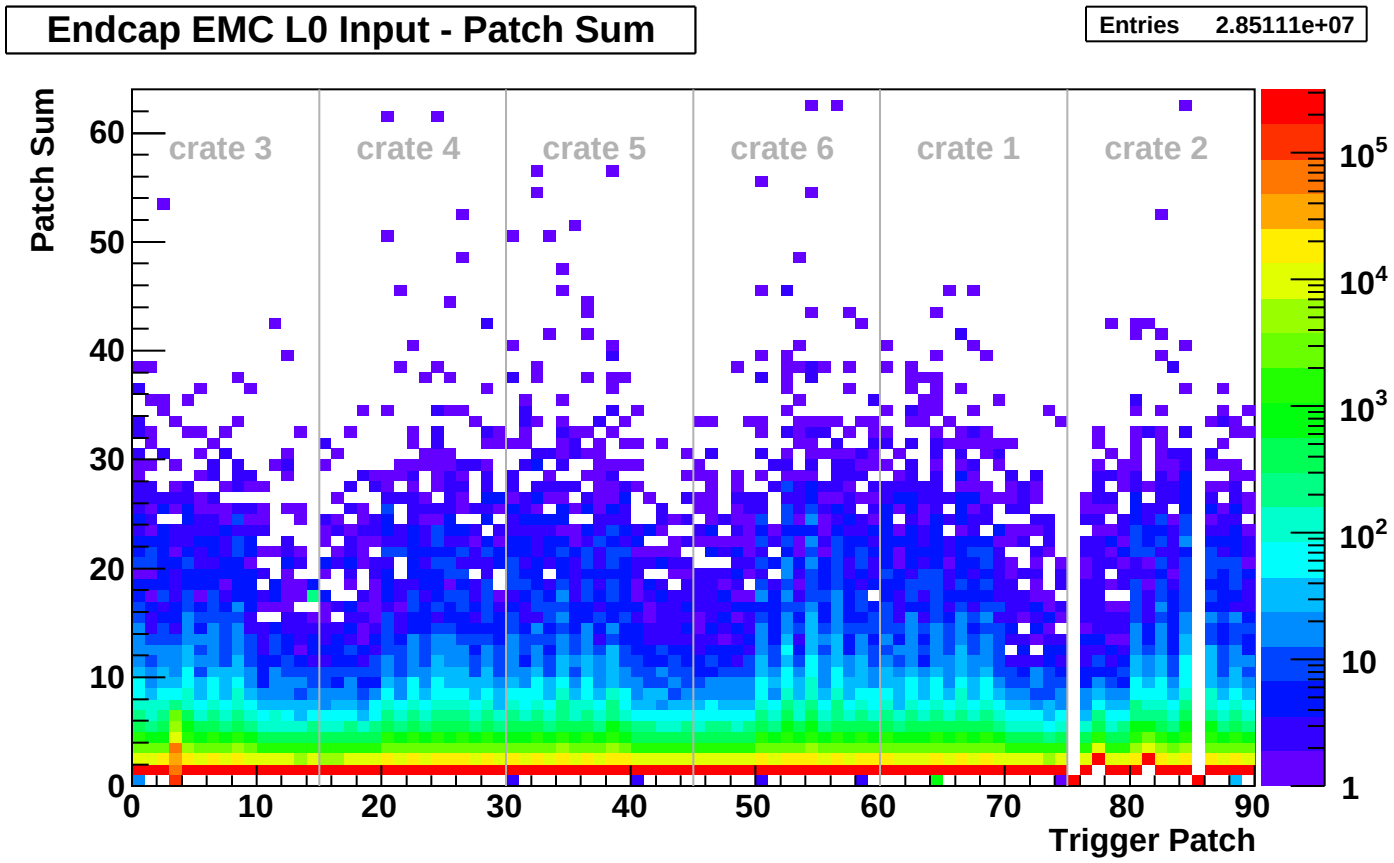

Abort-gaps
Entries 298

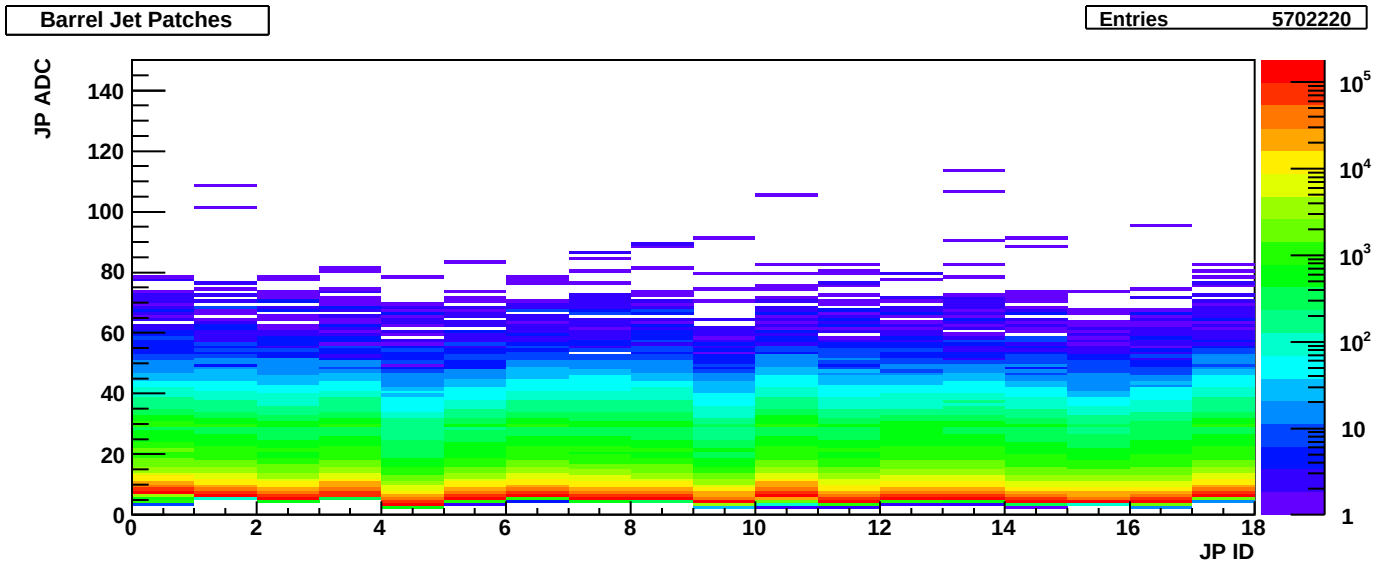

!Yellow-Fill
Entries 10683

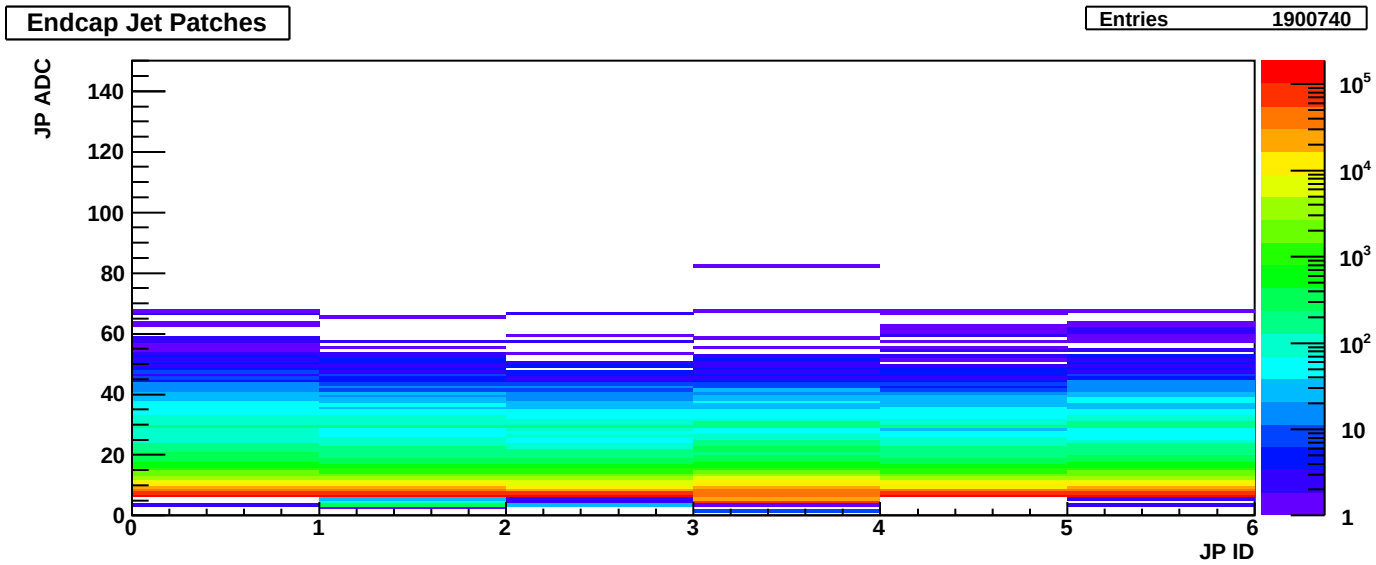

Barrel EMC L0 Input - High Tower
Entries 9.5037e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

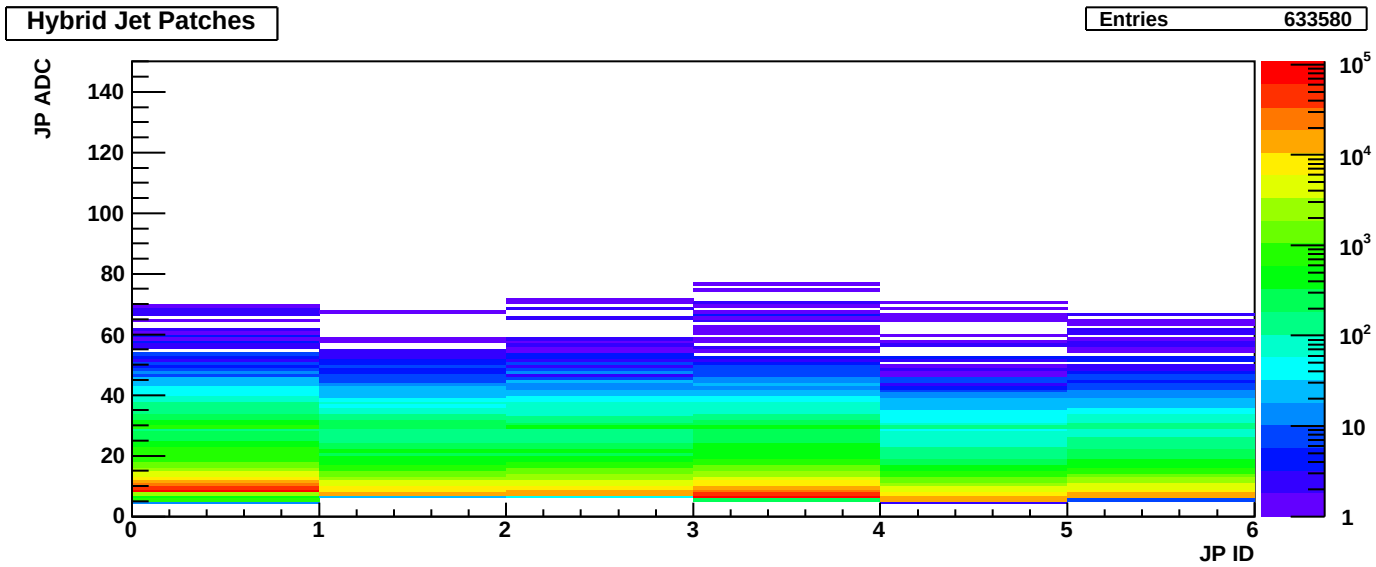

Barrel EMC L0 Input - Patch Sum
Entries 9.5037e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

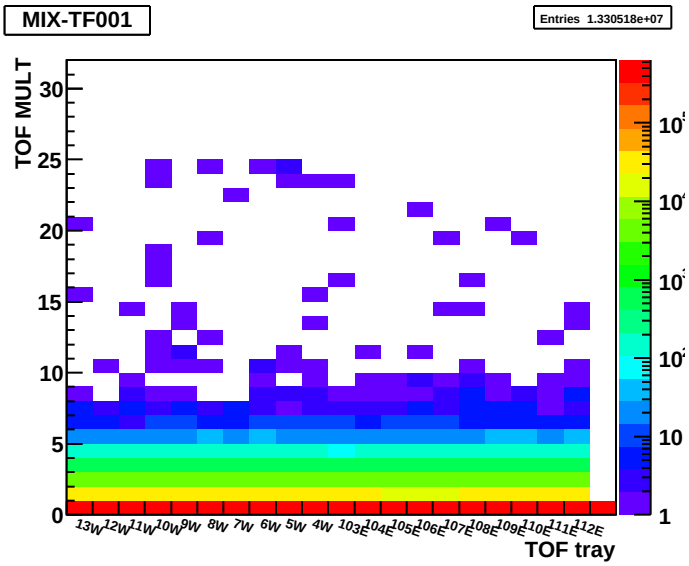

Endcap EMC L0 Input - High Tower
Entries 2.85111e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

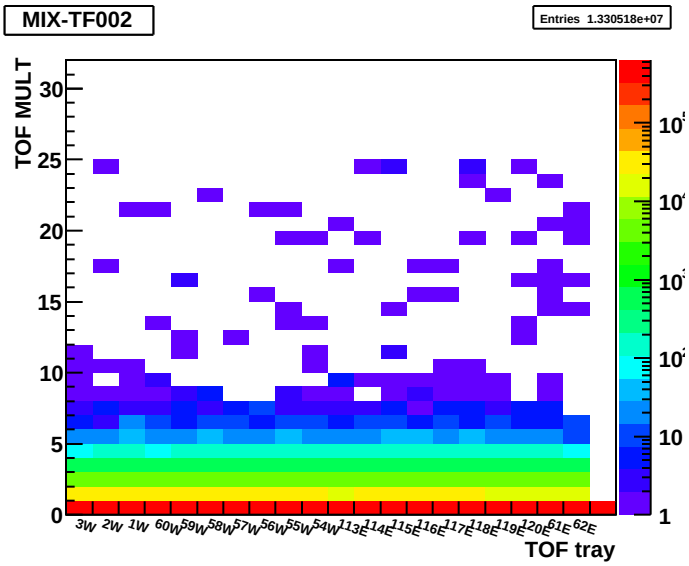

Endcap EMC L0 Input - Patch Sum
Entries 2.85111e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

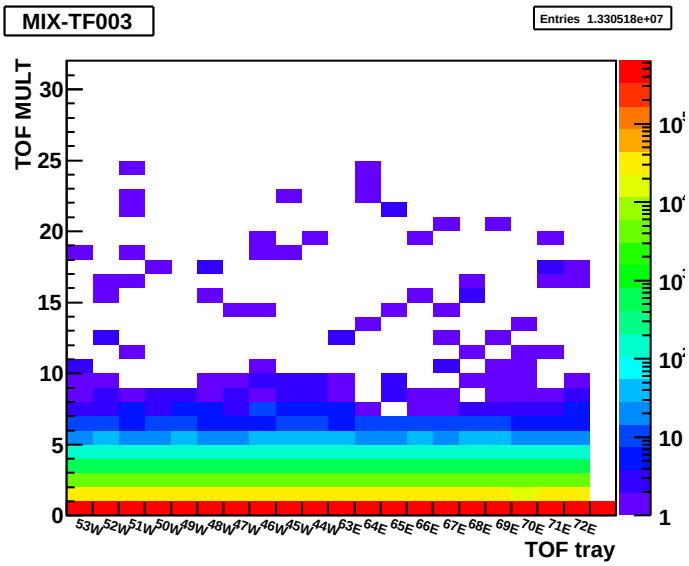

Barrel Jet Patches
Entries 5702220
JP ADC
JP ID

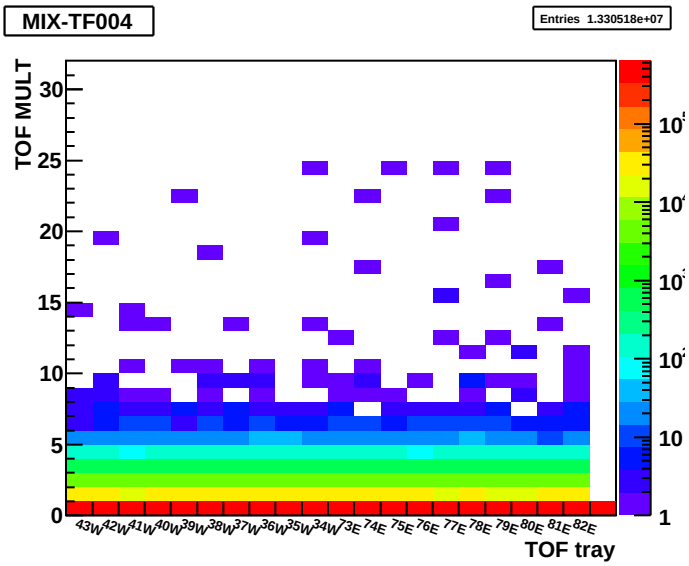

Endcap Jet Patches
Entries 1900740
JP ADC
JP ID

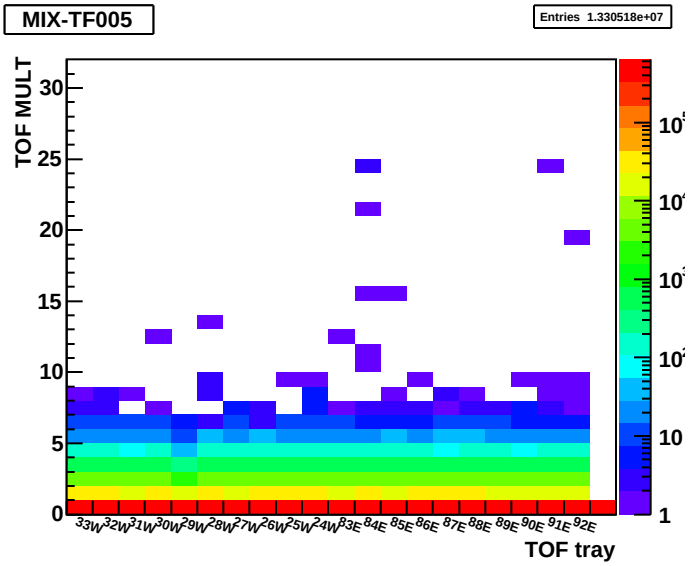

Hybrid Jet Patches
Entries 633580
JP ADC
JP ID

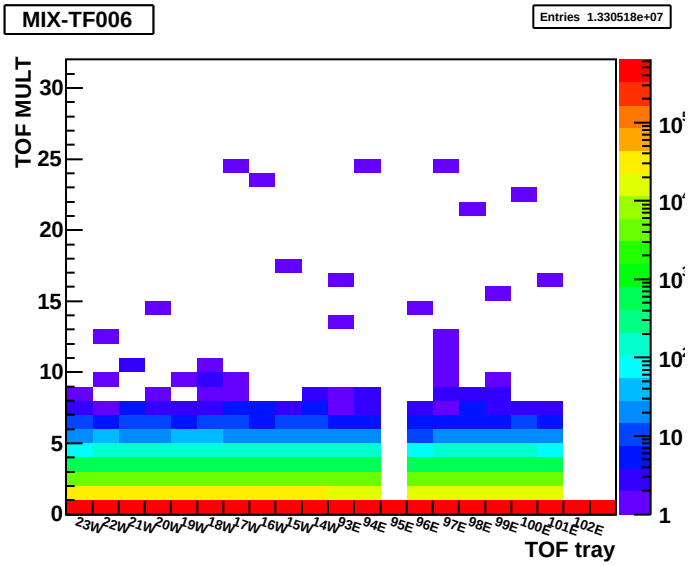

MIX-TF001
Entries 1.330518e+07
TOF MULT
TOF tray

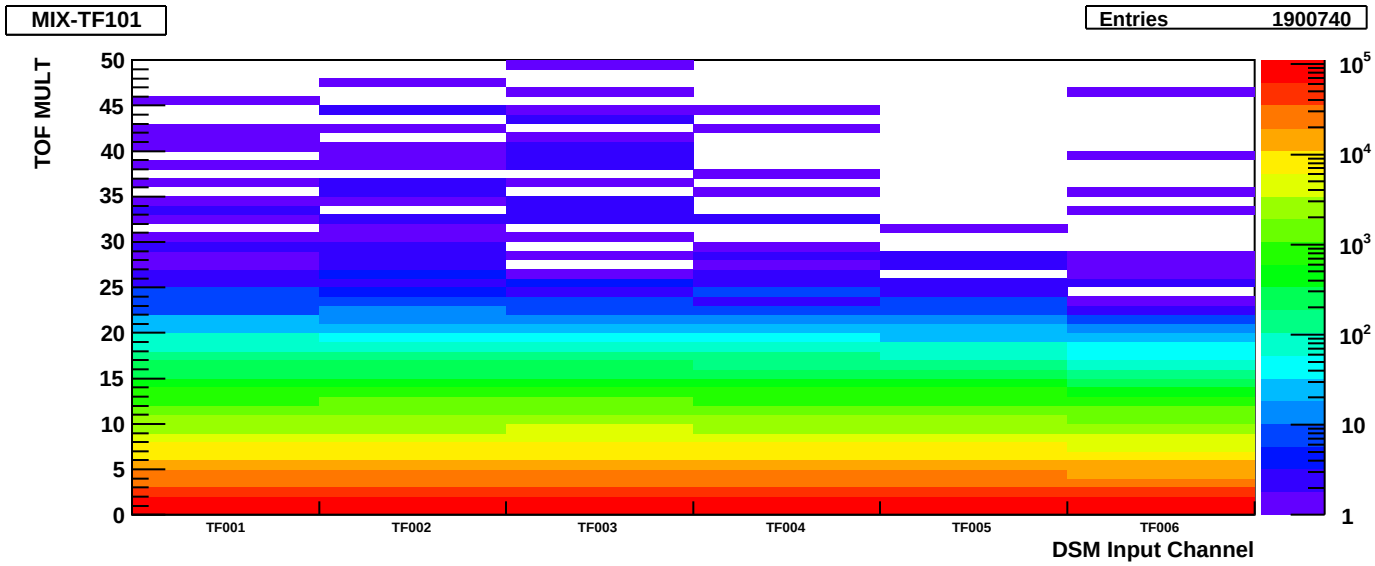

MIX-TF002
Entries 1.330518e+07
TOF MULT
TOF tray

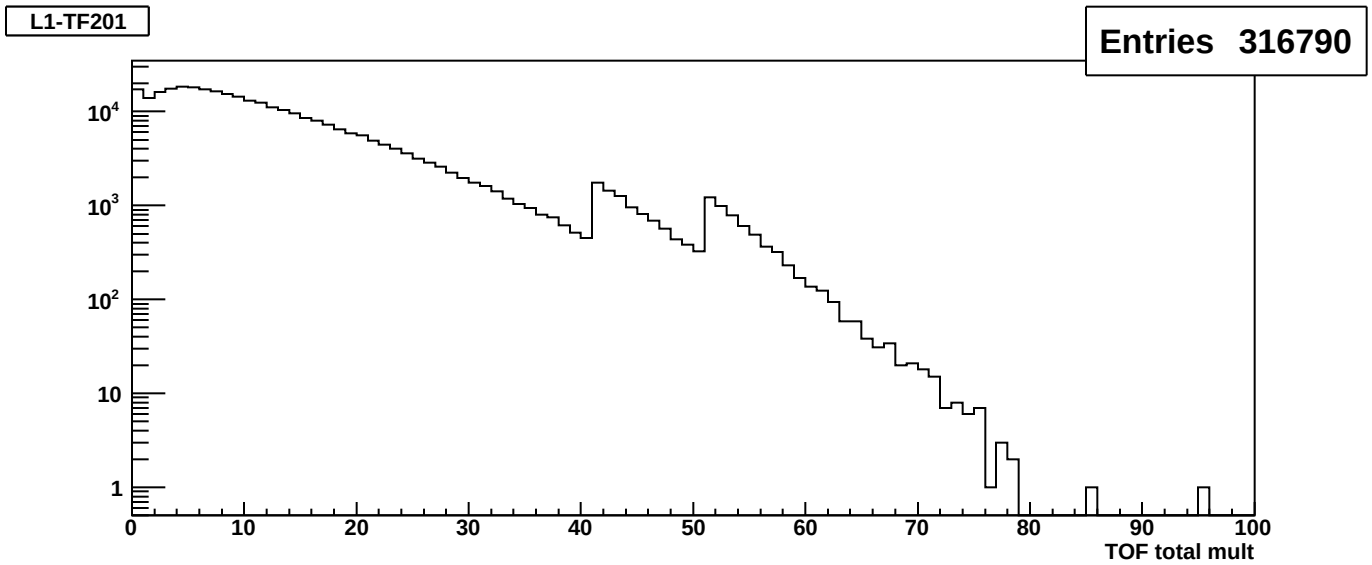

MIX-TF003
Entries 1.330518e+07
TOF MULT
TOF tray

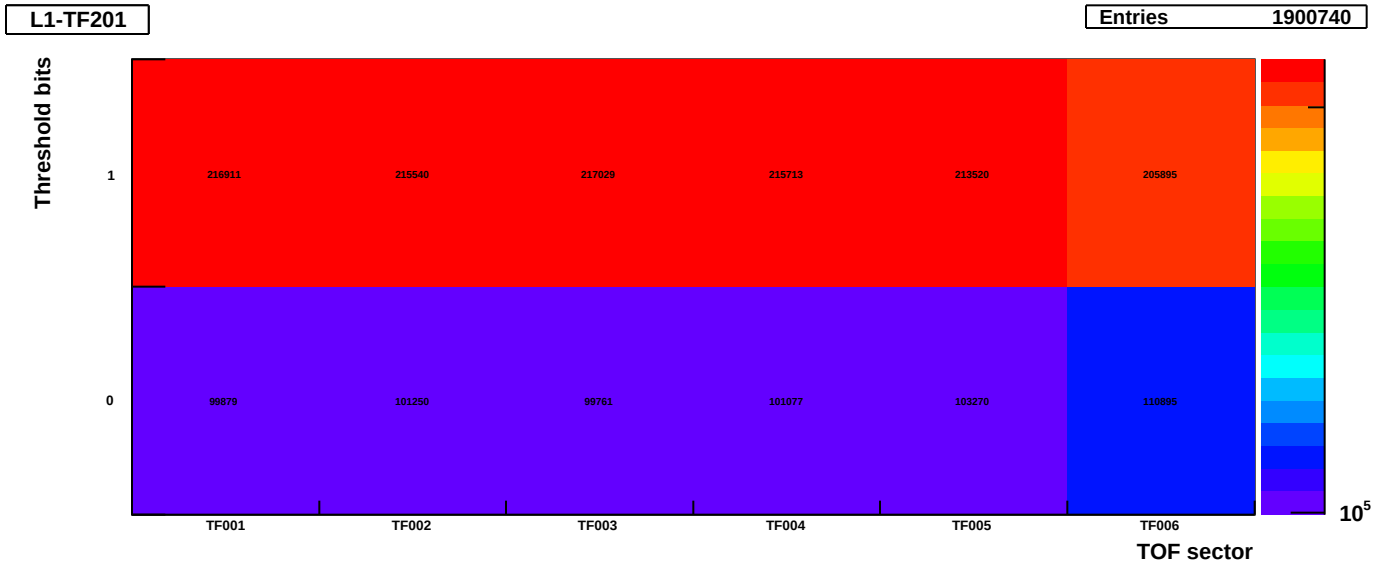

MIX-TF004
Entries 1.330518e+07
TOF MULT
TOF tray

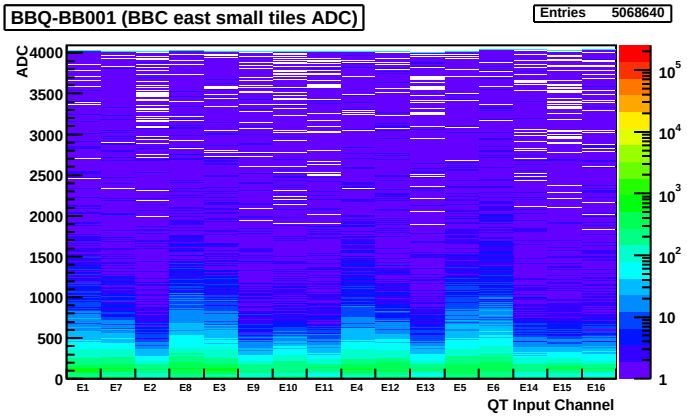

MIX-TF005
Entries 1.330518e+07
TOF MULT
TOF tray

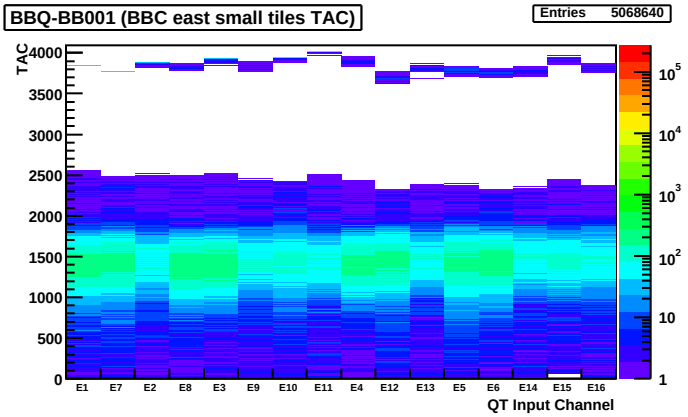

MIX-TF006
Entries 1.330518e+07
TOF MULT
TOF tray

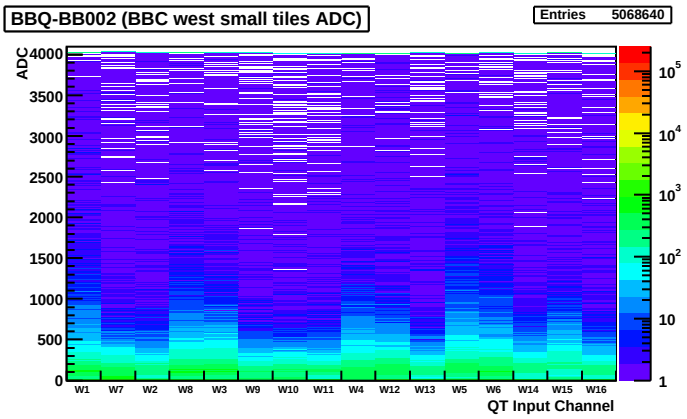

MIX-TF101
Entries 1900740
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

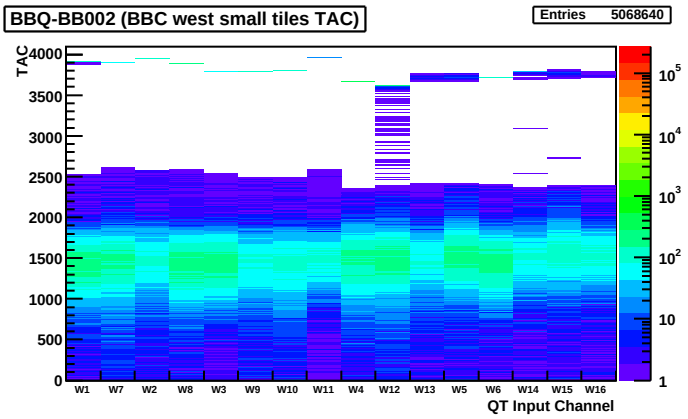

L1-TF201
Entries 316790
TOF total mult

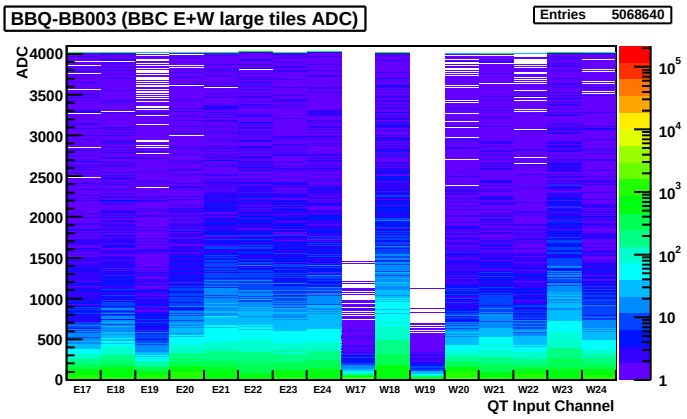

L1-TF201
Entries 1900740
Threshold bits
216911
215540
217029
215713
213520
205895
99879
101250
99761
101077
103270
110895
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

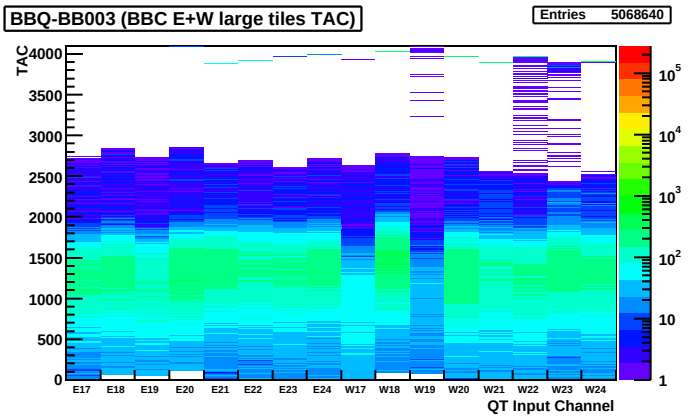

BBQ-BB001 (BBC east small tiles ADC)
Entries 5068640
ADC
QT Input Channel

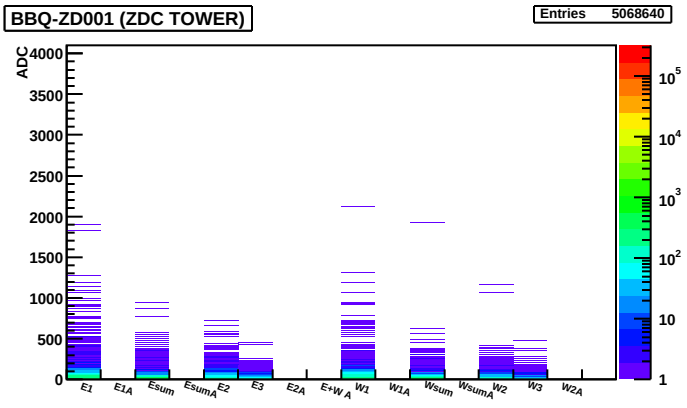

BBQ-BB001 (BBC east small tiles TAC)
Entries 5068640
TAC
QT Input Channel

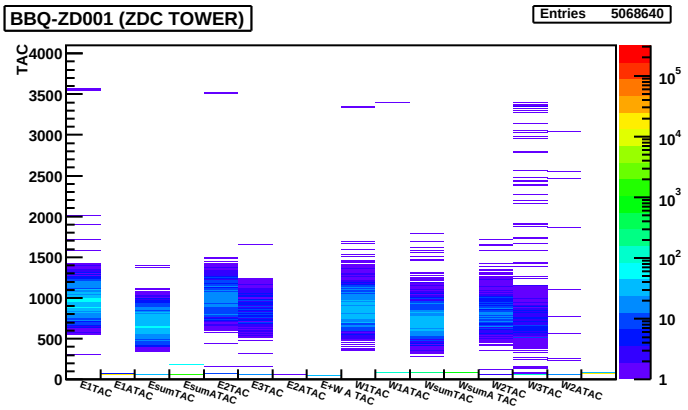

BBQ-BB002 (BBC west small tiles ADC)
Entries 5068640
ADC
QT Input Channel

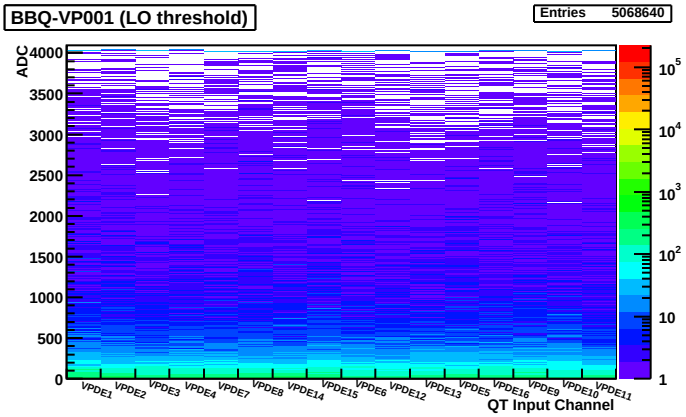

BBQ-BB002 (BBC west small tiles TAC)
Entries 5068640
TAC
QT Input Channel

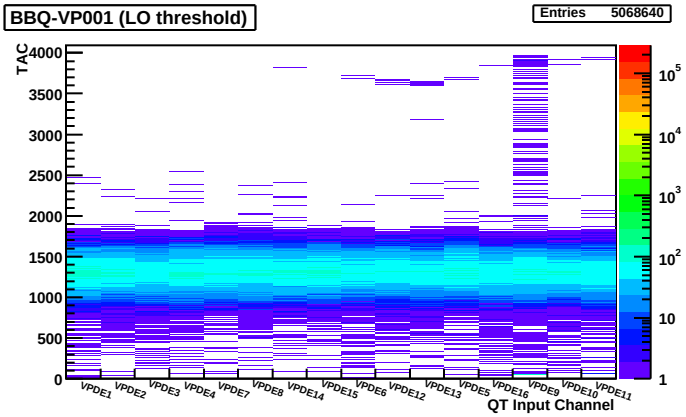

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5068640
ADC
QT Input Channel

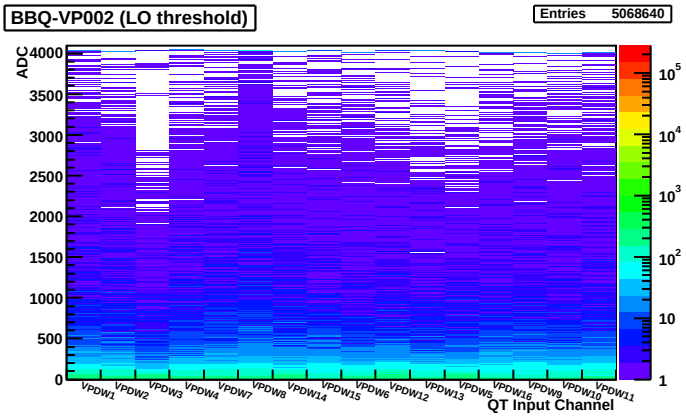

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5068640
TAC
QT Input Channel

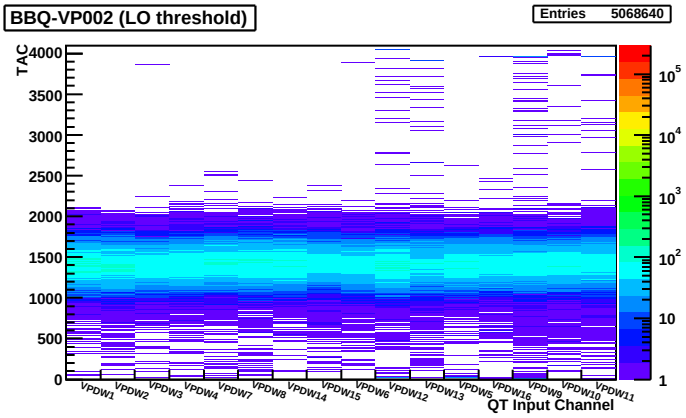

BBQ-ZD001 (ZDC TOWER)
Entries 5068640
ADC

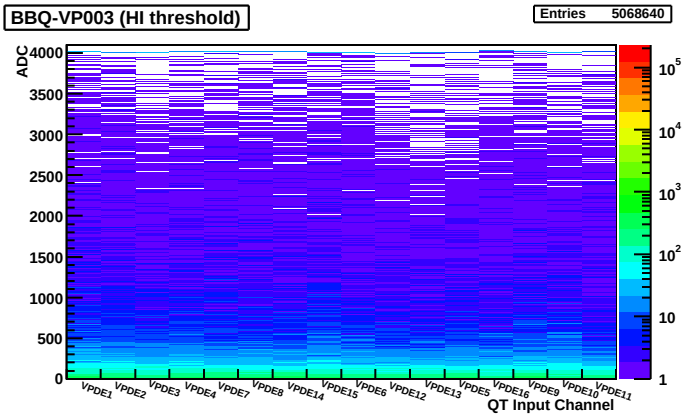

BBQ-ZD001 (ZDC TOWER)
Entries 5068640
TAC

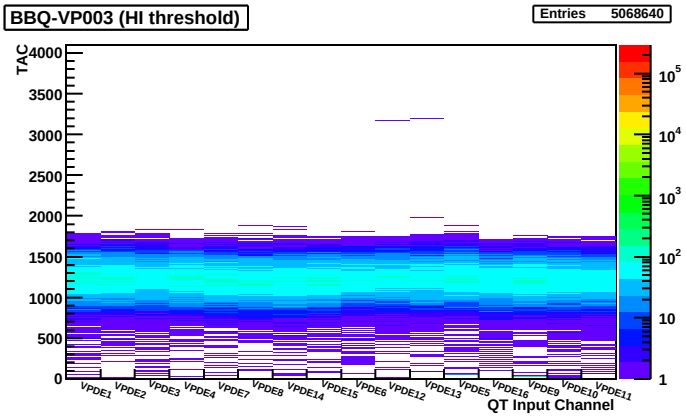

BBQ-VP001 (LO threshold)
Entries 5068640
ADC
QT Input Channel

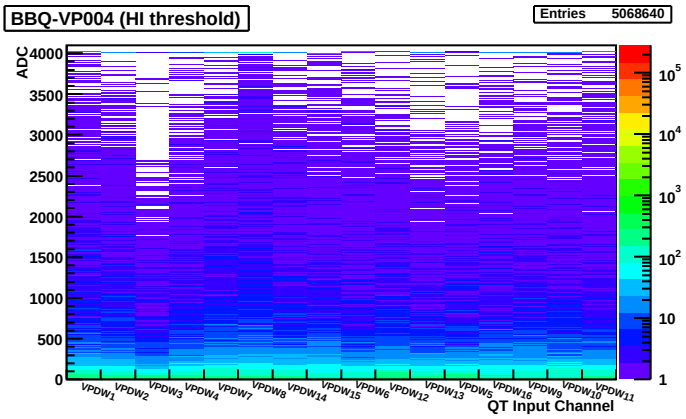

BBQ-VP001 (LO threshold)
Entries 5068640
TAC
QT Input Channel

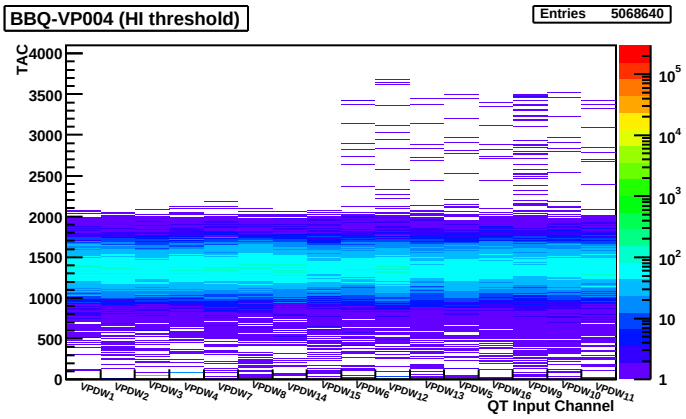

BBQ-VP002 (LO threshold)
Entries 5068640
ADC
QT Input Channel

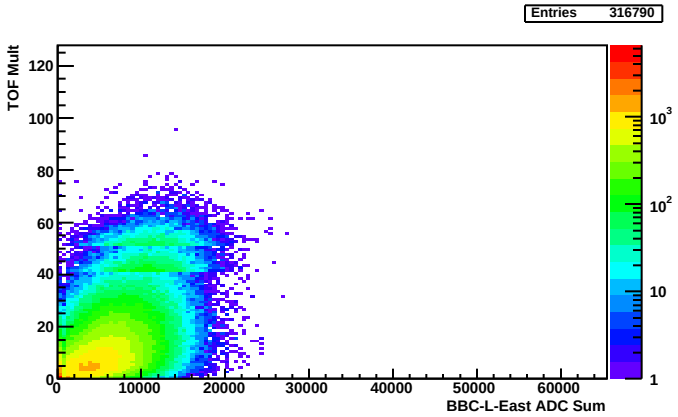

BBQ-VP002 (LO threshold)
Entries 5068640
TAC
QT Input Channel

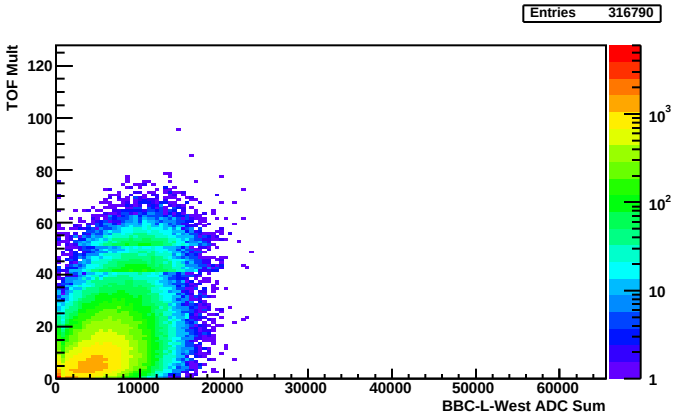

BBQ-VP003 (HI threshold)
Entries 5068640
ADC
QT Input Channel

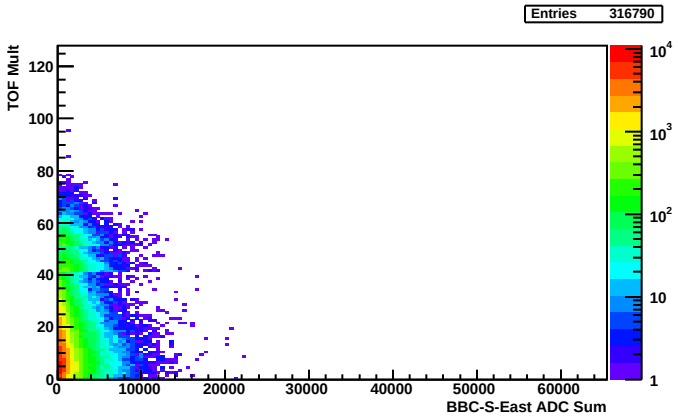

BBQ-VP003 (HI threshold)
Entries 5068640
TAC
QT Input Channel

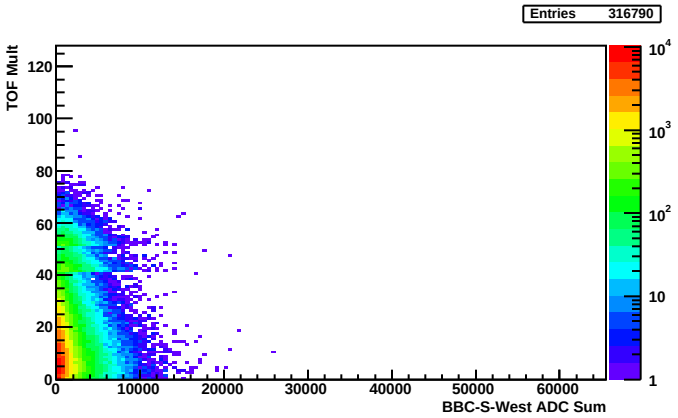

BBQ-VP004 (HI threshold)
Entries 5068640
ADC
QT Input Channel

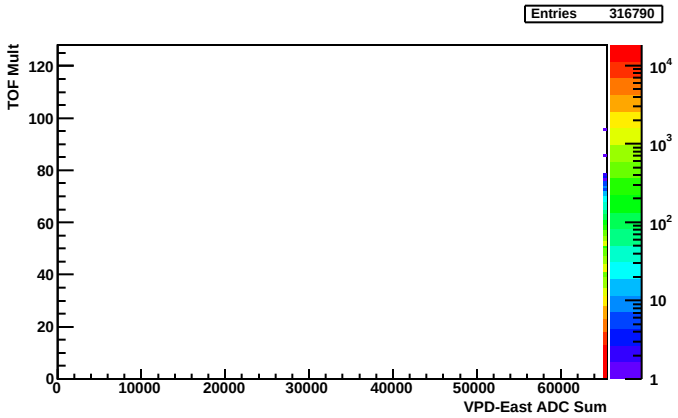

BBQ-VP004 (HI threshold)
Entries 5068640
TAC
QT Input Channel

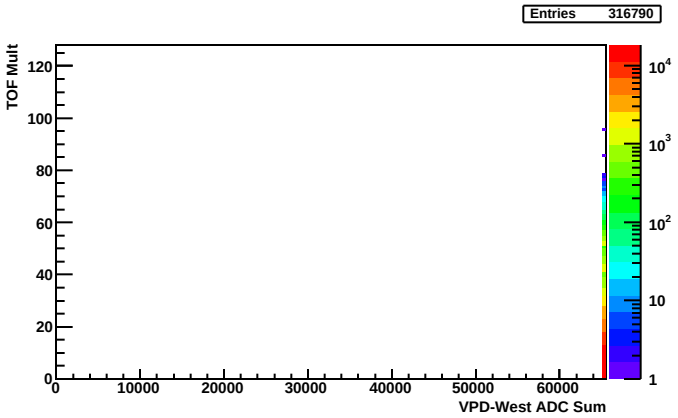

Entries 316790
TOF Mult
BBC-L-East ADC Sum

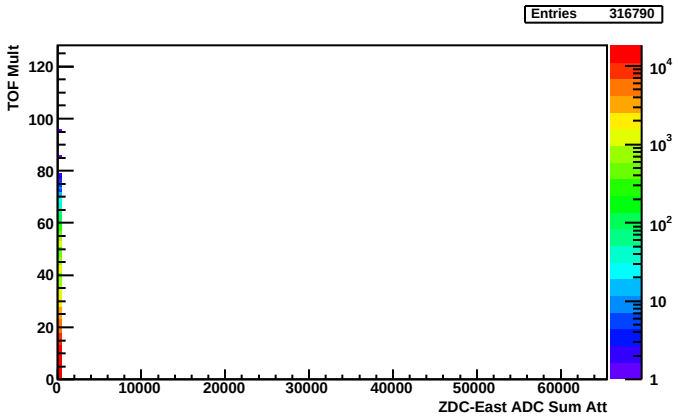

Entries 316790
TOF Mult
BBC-L-West ADC Sum

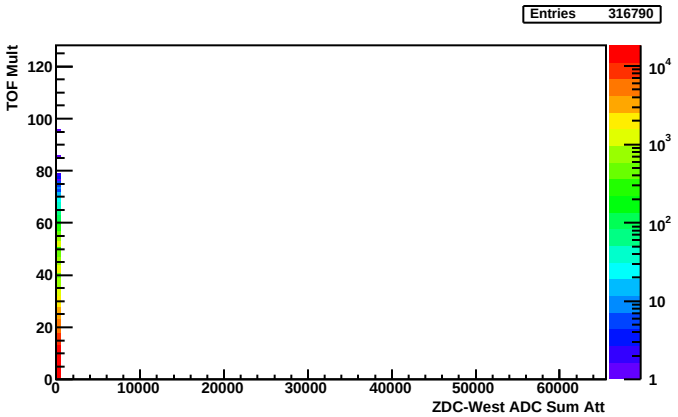

Entries 316790
TOF Mult
BBC-S-East ADC Sum

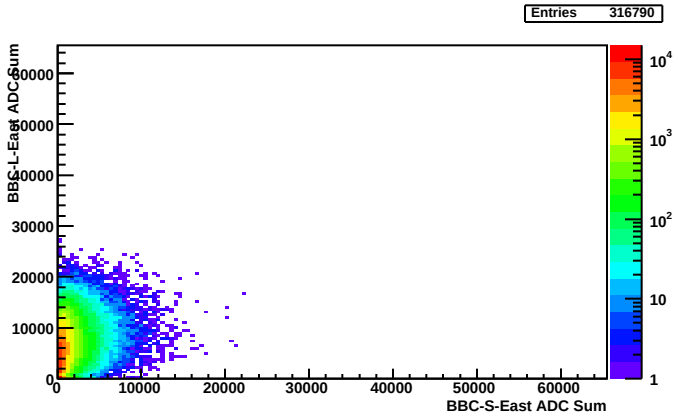

Entries 316790
TOF Mult
BBC-S-West ADC Sum

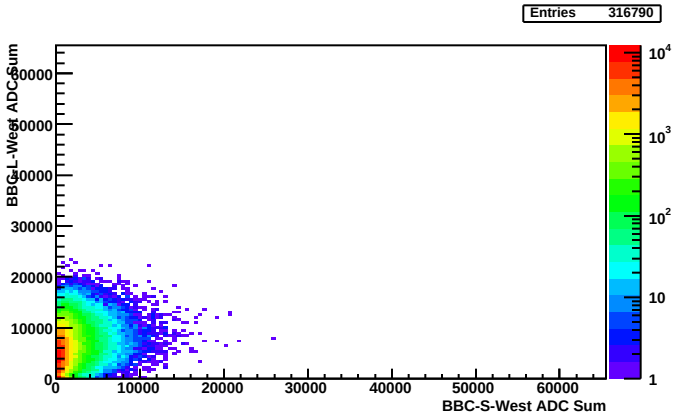

Entries 316790
TOF Mult
VPD-East ADC Sum

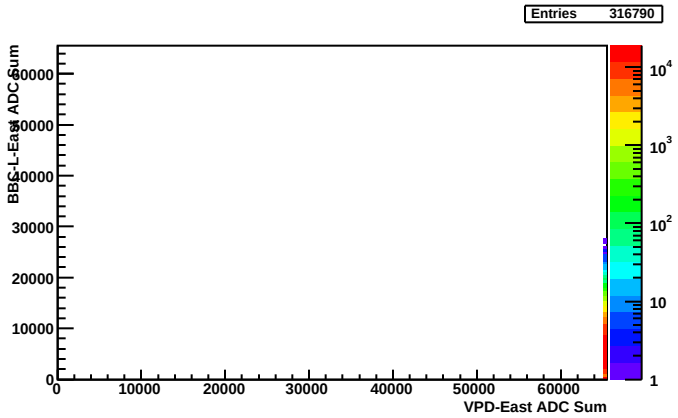

Entries 316790
TOF Mult
VPD-West ADC Sum

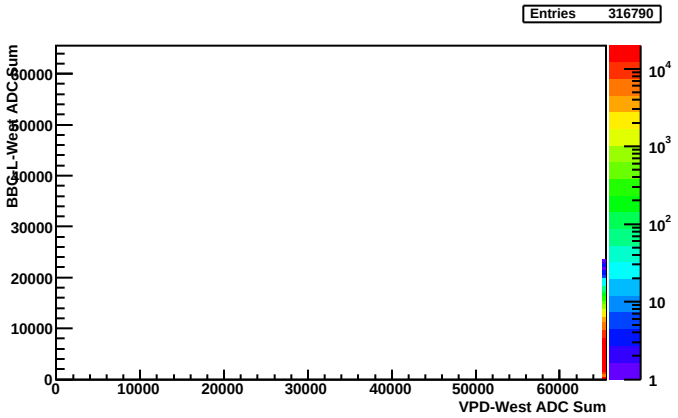

Entries 316790
TOF Mult
ZDC-East ADC Sum Att


Entries 316790
TOF Mult
ZDC-West ADC Sum Att


Entries 316790
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 316790
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 316790
BBC-L-East ADC Sum
VPD-East ADC Sum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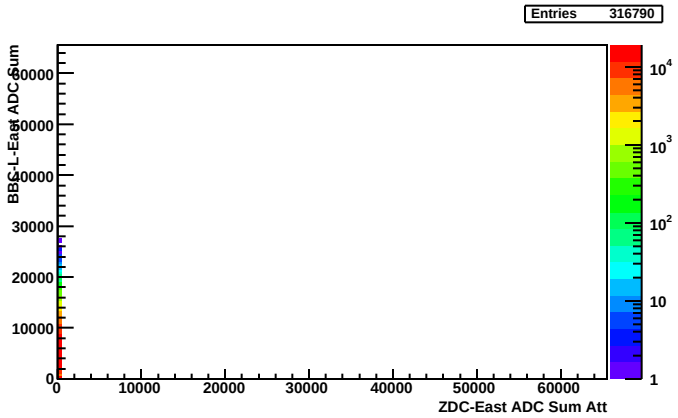
BBC-L-West ADC Sum
VPD-West ADC Sum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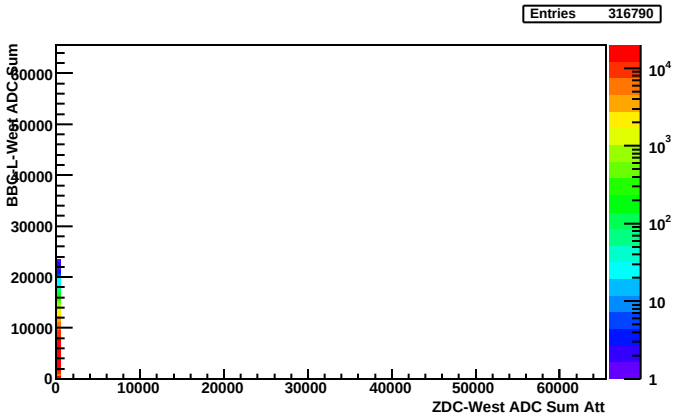
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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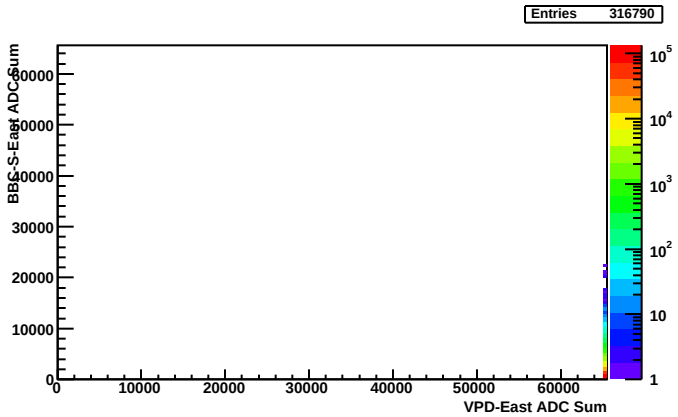
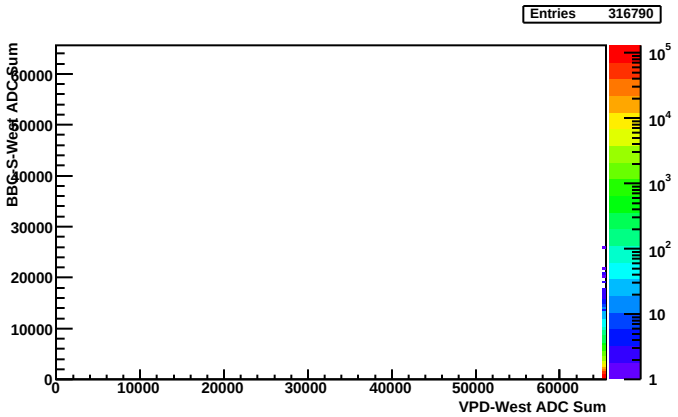
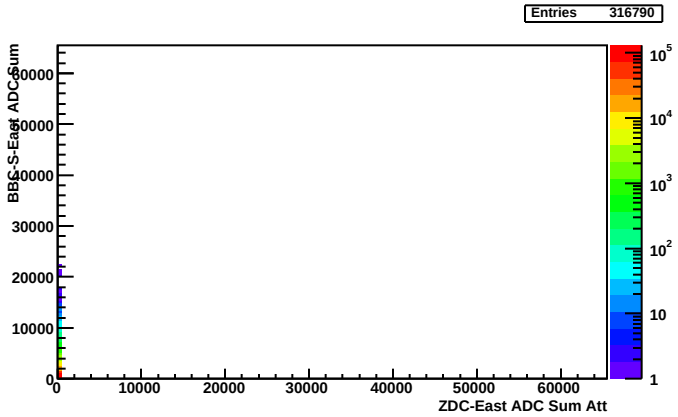
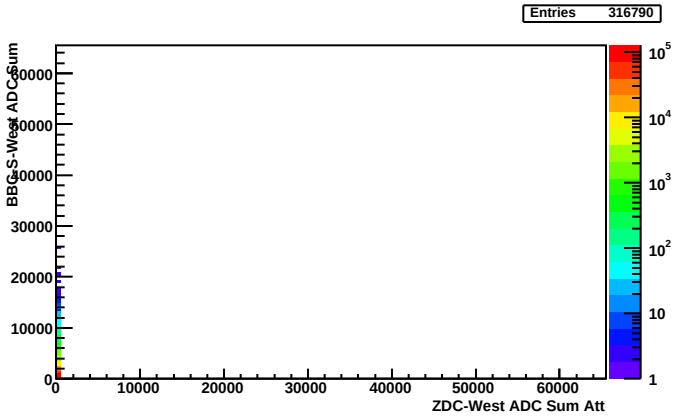
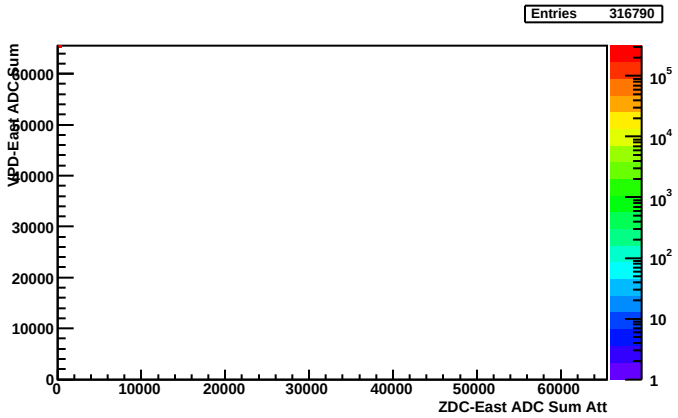
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 316790
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 316790
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 316790
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 316790
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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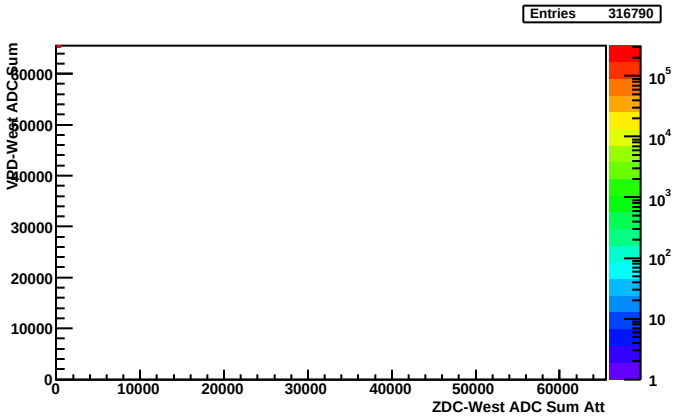
VPD-East ADC Sum
ZDC-East ADC Sum Att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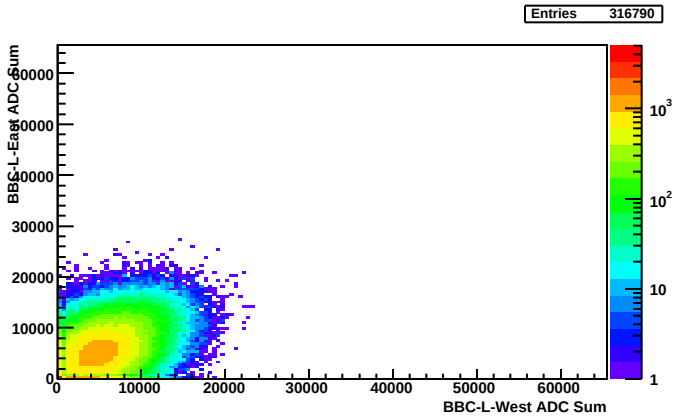
ZDC-West ADC Sum Att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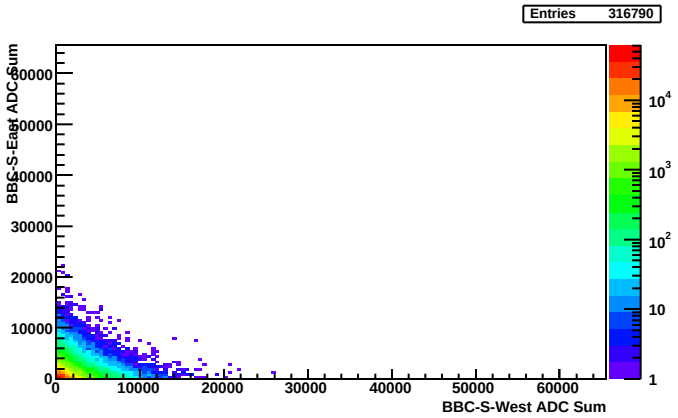
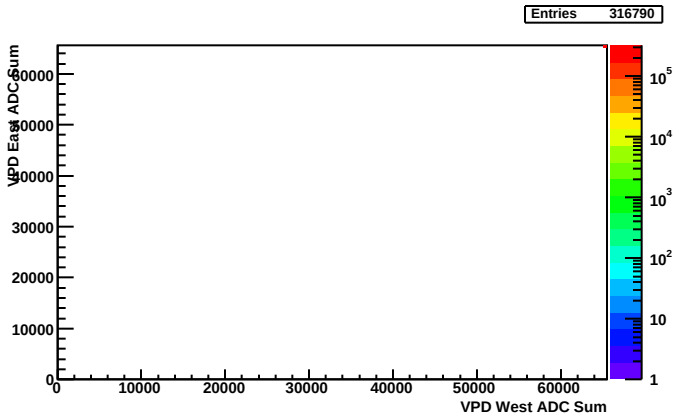
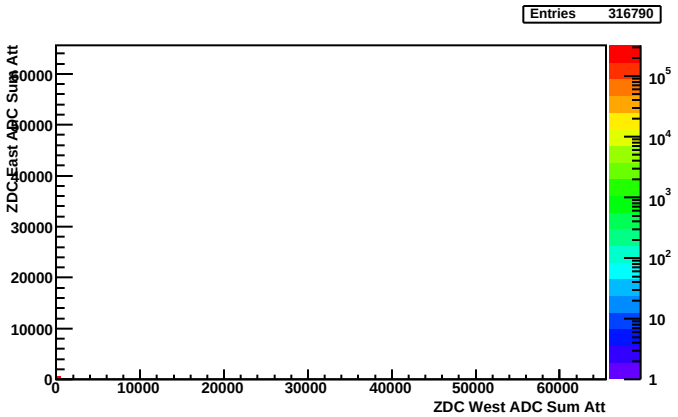
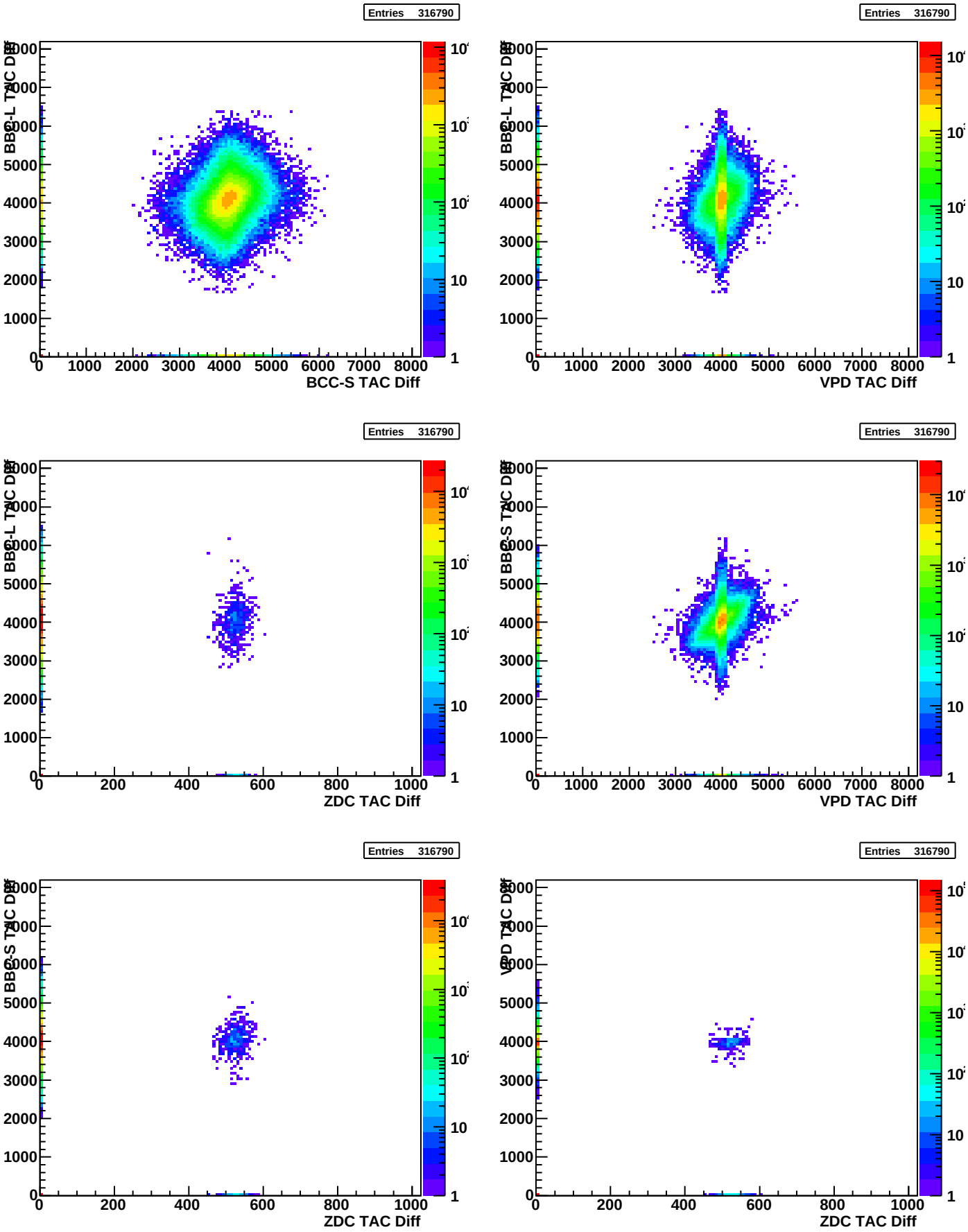
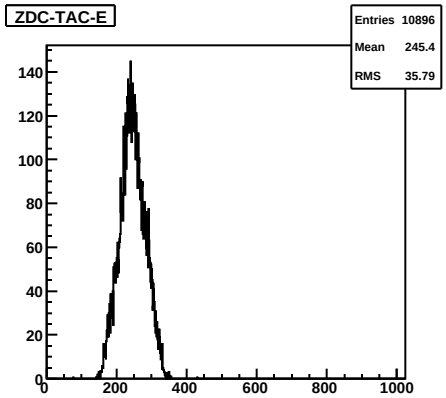
BBC-L-East ADC Sum
BBC-L-West ADC Sum

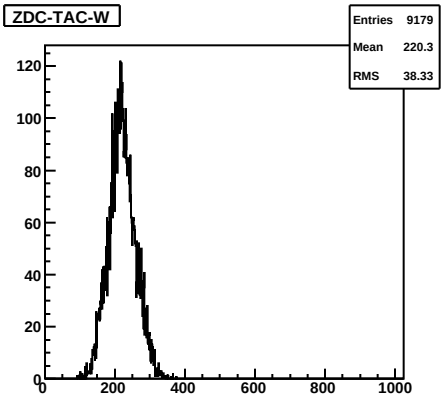

Entries 316790
BBC-S-East ADC Sum
BBC-S-West ADC Sum

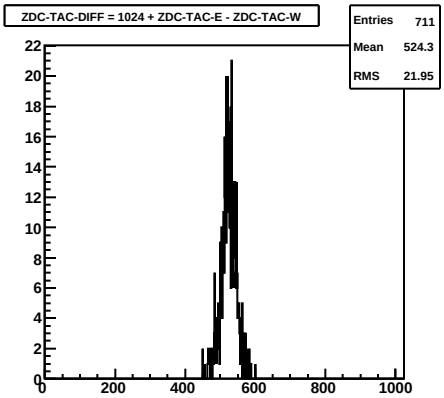

Entries 316790
VPD East ADC Sum
VPD West ADC Sum

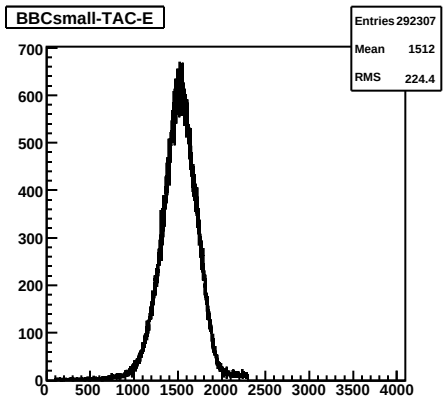

Entries 316790
ZDC East ADC Sum Att
ZDC West ADC Sum Att

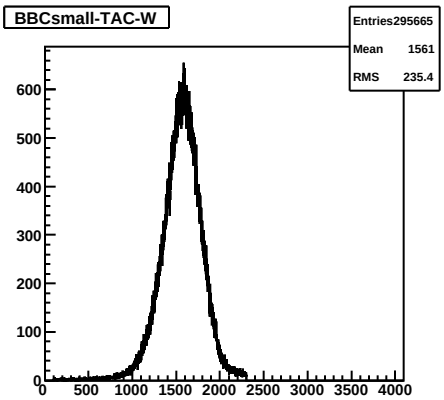

Entries 316790
BBC-L TAC Diff
BCC-S TAC Diff
Entries 316790
BBC-L TAC Diff
VPD TAC Diff
Entries 316790
BBC-L TAC Diff
ZDC TAC Diff
Entries 316790
BBC-S TAC Diff
VPD TAC Diff
Entries 316790
BBC-S TAC Diff
ZDC TAC Diff
Entries 316790
VPD TAC Diff
ZDC TAC Diff

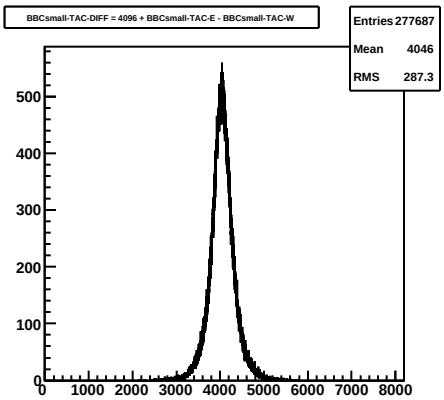

ZDC-TAC-E
Entries 10896
Mean 245.4
RMS 35.79

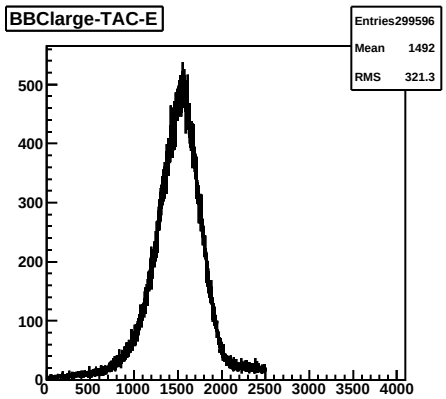

ZDC-TAC-W
Entries 9179
Mean 220.3
RMS 38.33

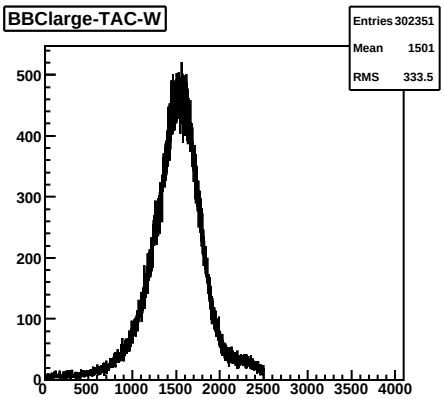

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 711
Mean 524.3
RMS 21.95

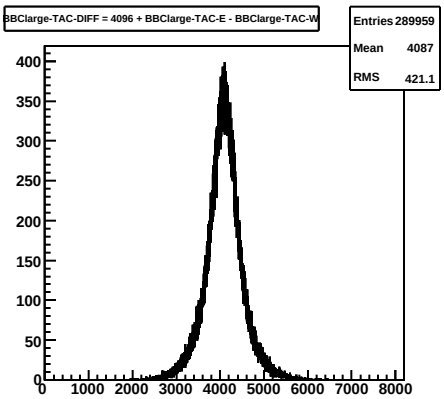

BBCsmall-TAC-E
Entries 292307
Mean 1512
RMS 224.4

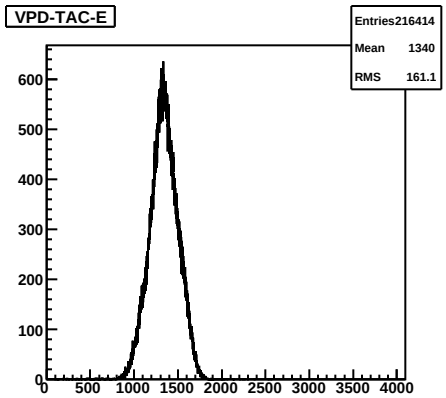

BBCsmall-TAC-W
Entries 295665
Mean 1561
RMS 235.4

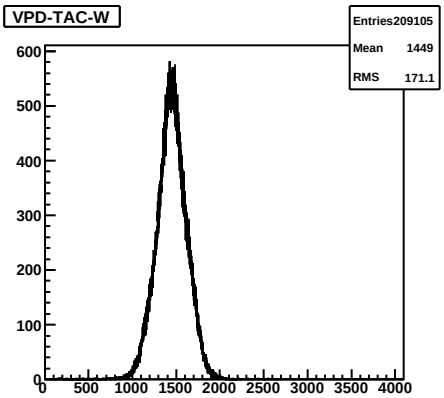

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 277687
Mean 4046
RMS 287.3

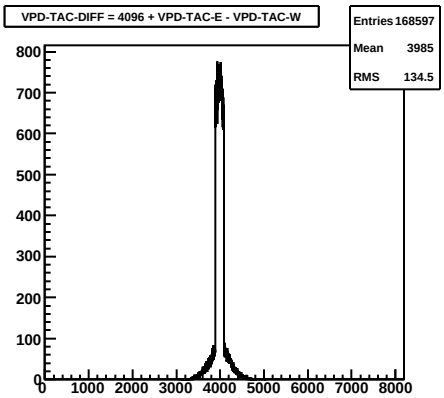

BBClarge-TAC-E
Entries 299596
Mean 1492
RMS 321.3

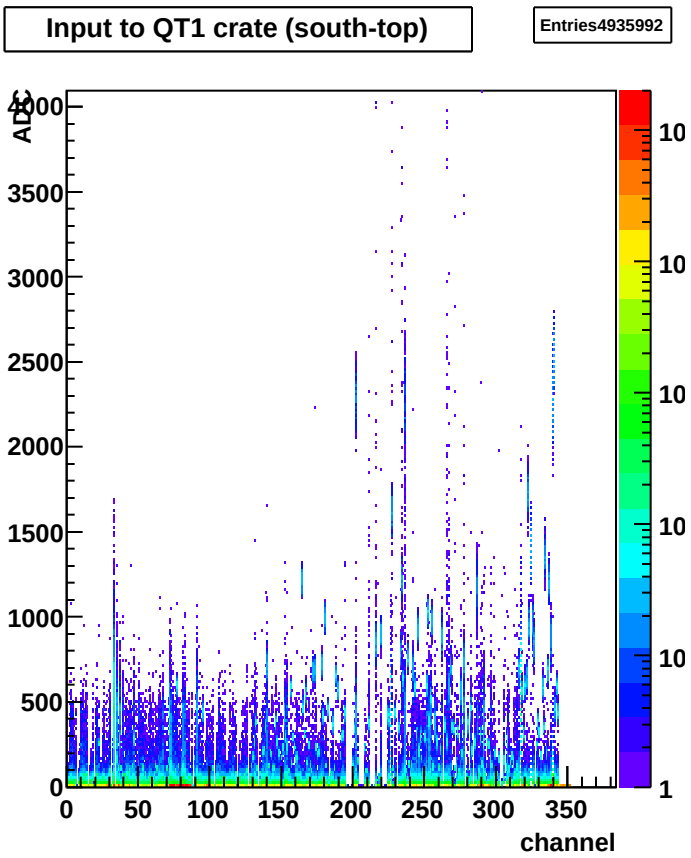

BBClarge-TAC-W
Entries 302351
Mean 1501
RMS 333.5

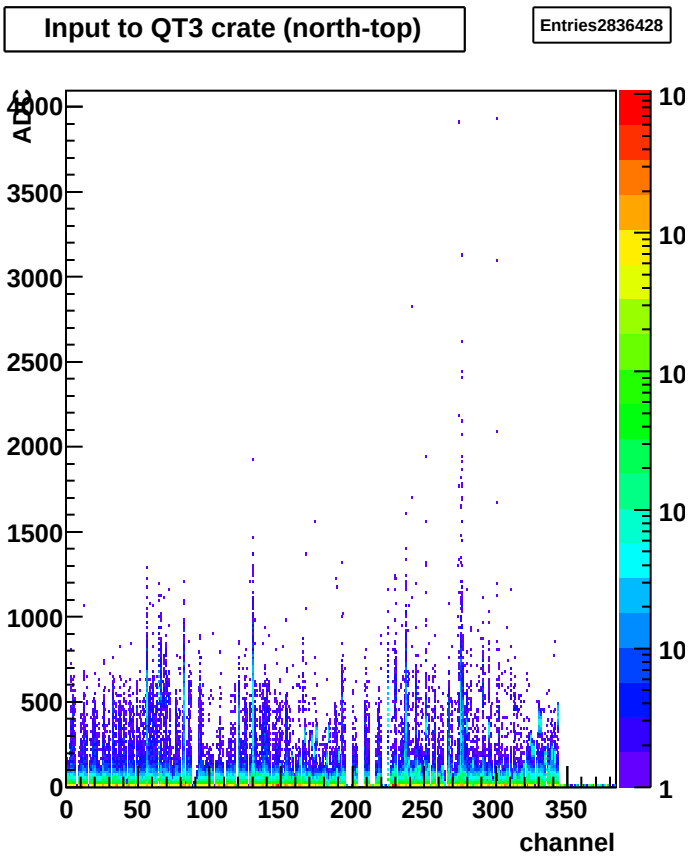

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 289959
Mean 4087
RMS 421.1

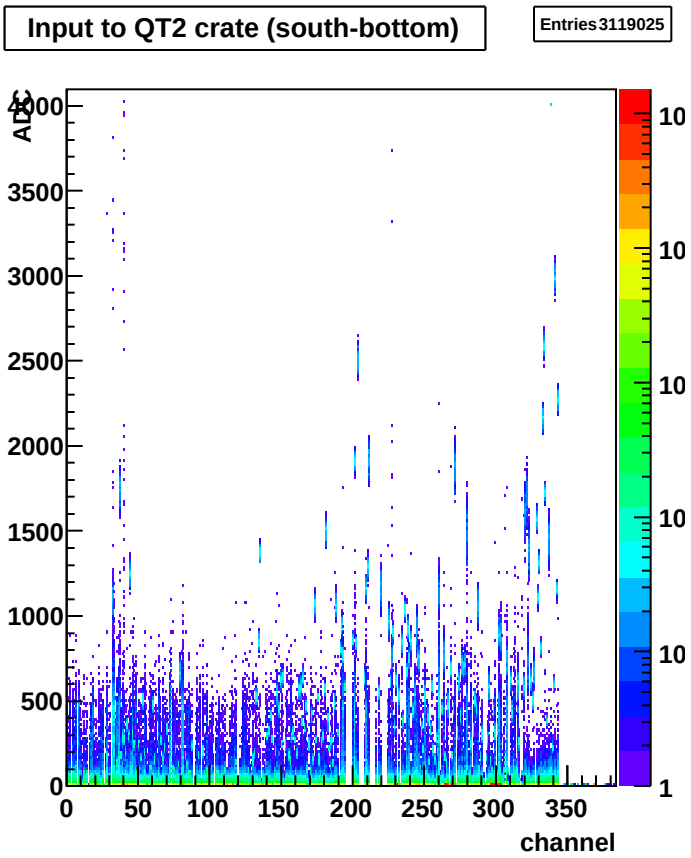

VPD-TAC-E
Entries 216414
Mean 1340
RMS 161.1

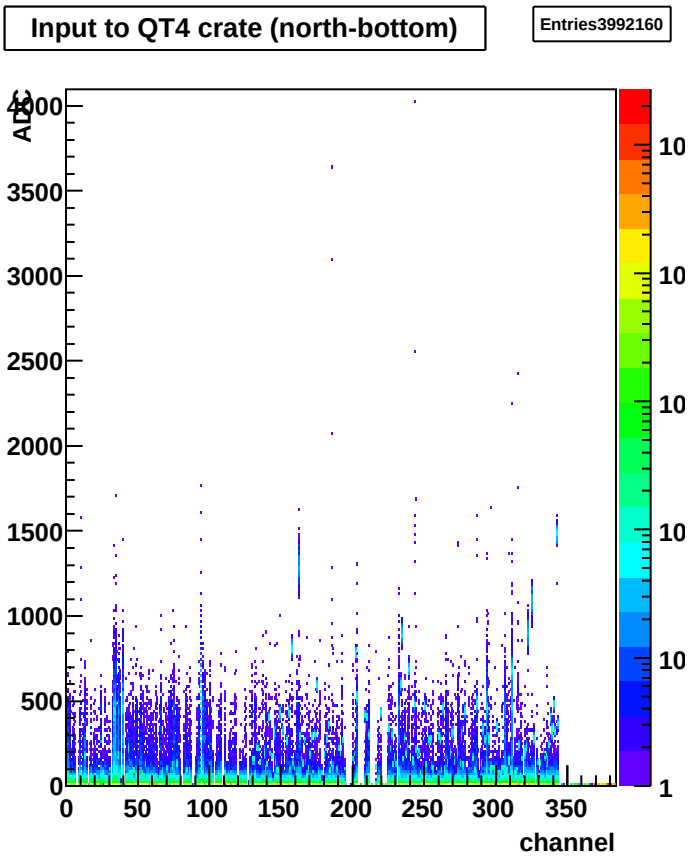

VPD-TAC-W
Entries 209105
Mean 1449
RMS 171.1

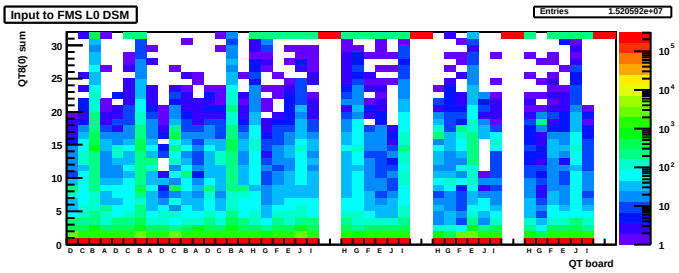

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 168597
Mean 3985
RMS 134.5

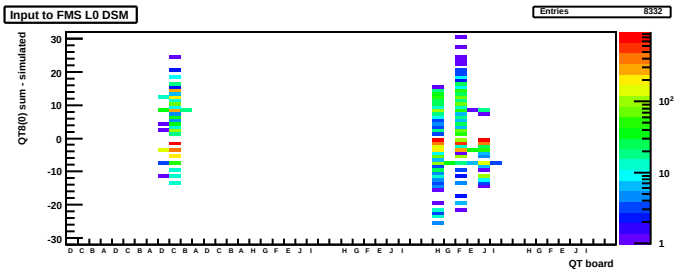

Input to QT1 crate (south-top)
Entries4935992
ADC
channel

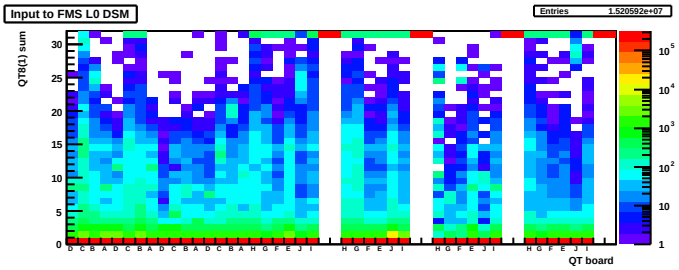

Input to QT3 crate (north-top)
Entries2836428
ADC
channel

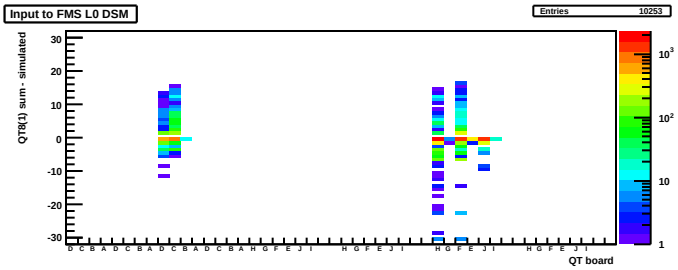

Input to QT2 crate (south-bottom)
Entries3119025
ADC
channel

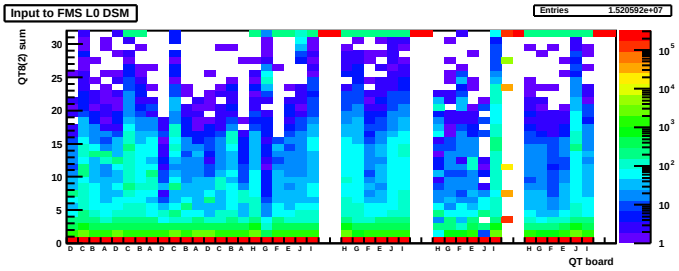

Input to QT4 crate (north-bottom)
Entries3992160
ADC
channel

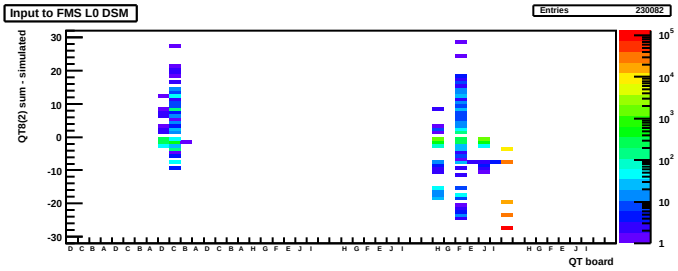

Input to FMS L0 DSM
Entries 1.520592e+07
QT8(0) sum
QT board

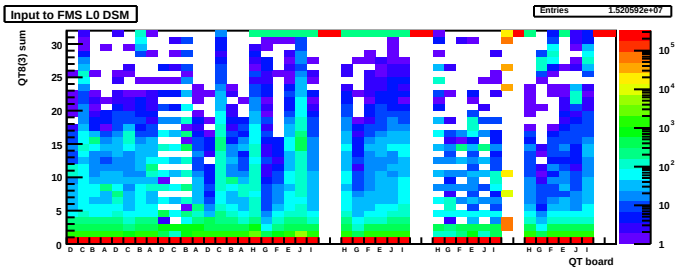

Input to FMS L0 DSM
Entries 8332
QT8(0) sum - simulated
QT board

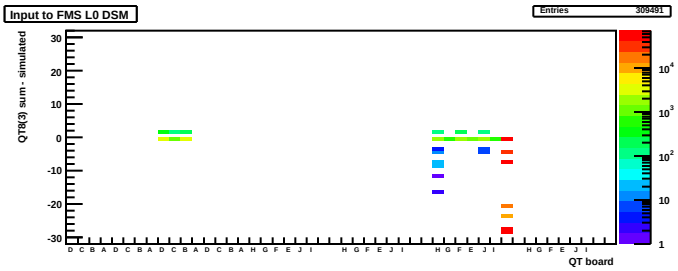

Input to FMS L0 DSM
Entries 1.520592e+07
QT8(1) sum
QT board

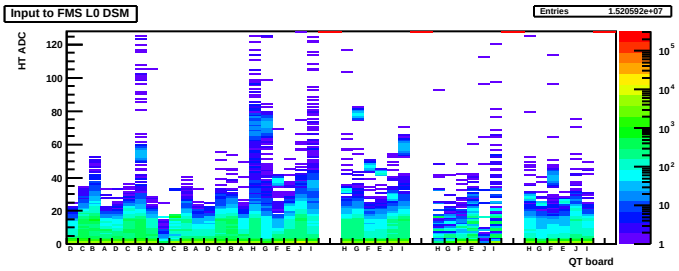

Input to FMS L0 DSM
Entries 10253
QT8(1) sum - simulated
QT board

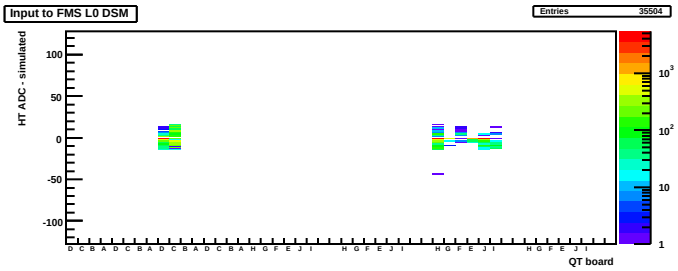

Input to FMS L0 DSM
Entries 1.520592e+07
QT8(2) sum
QT board

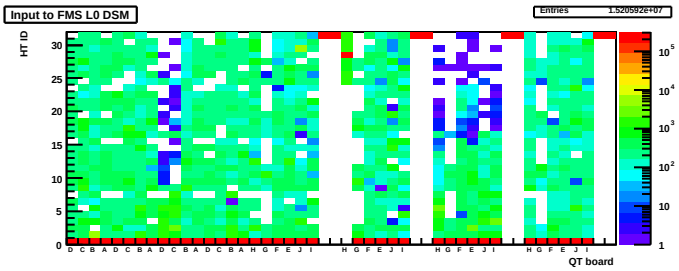

Input to FMS L0 DSM
Entries 230082
QT8(2) sum - simulated
QT board

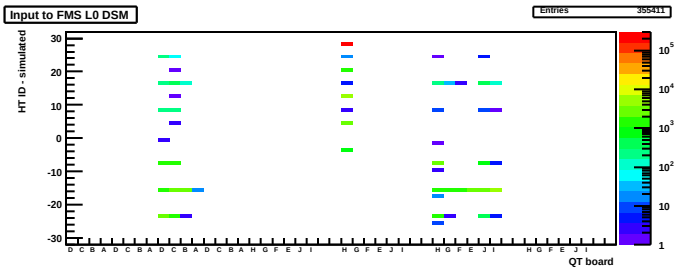

Input to FMS L0 DSM
Entries 1.520592e+07
QT8(3) sum
QT board

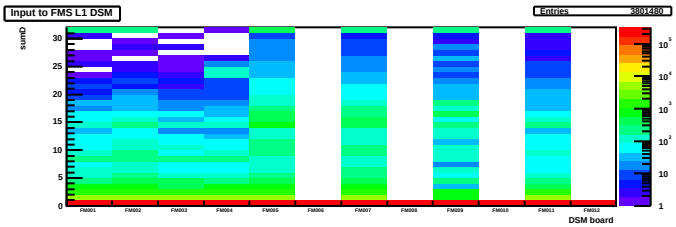

Input to FMS L0 DSM
Entries 309491
QT8(3) sum - simulated
QT board

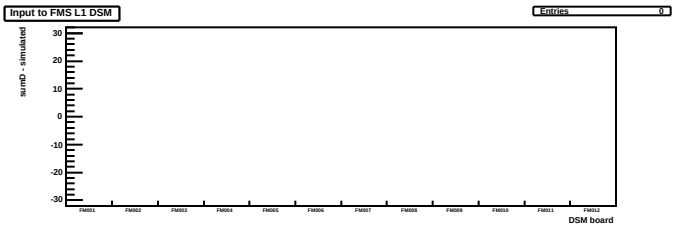

Input to FMS L0 DSM
Entries 1.520592e+07
HT ADC
QT board

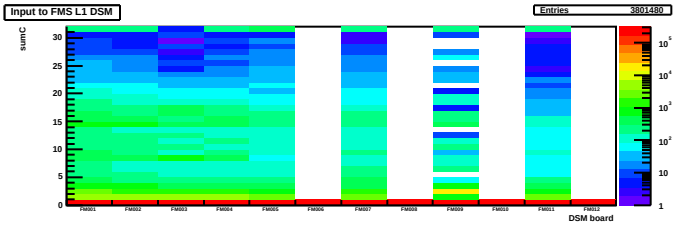

Input to FMS L0 DSM
Entries 35504
HT ADC - simulated
QT board

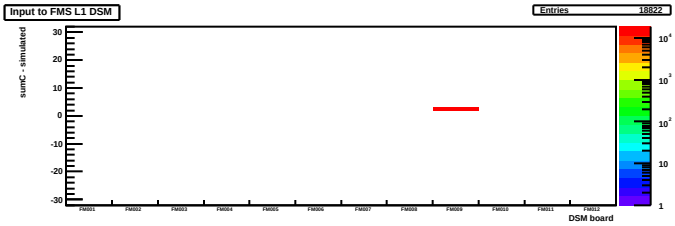

Input to FMS L0 DSM
Entries 1.520592e+07
HT ID
QT board

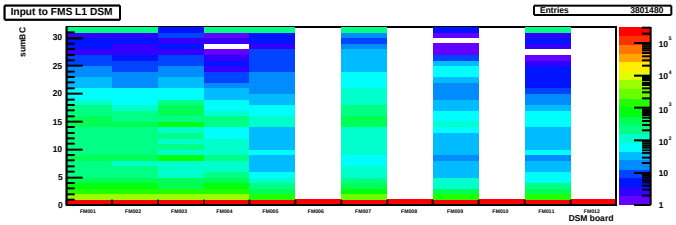

Input to FMS L0 DSM
Entries 355411
HT ID - simulated
QT board

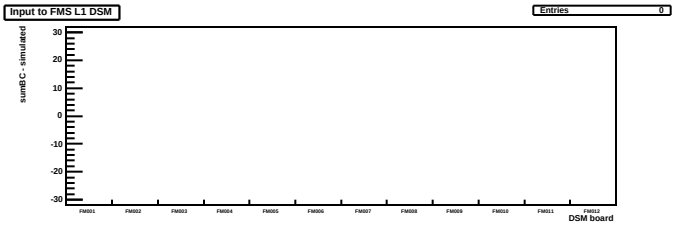

Input to FMS L1 DSM
Entries 3801480
sumD
DSM board

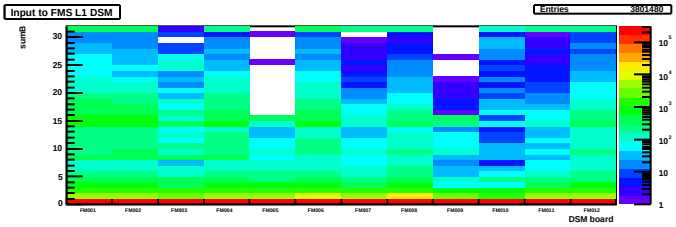

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

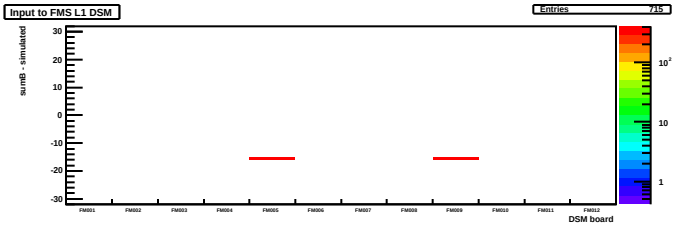

Input to FMS L1 DSM
Entries 3801480
sumC
DSM board

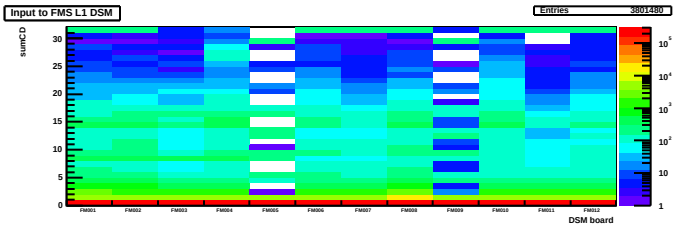

Input to FMS L1 DSM
Entries 18822
sumC - simulated
DSM board

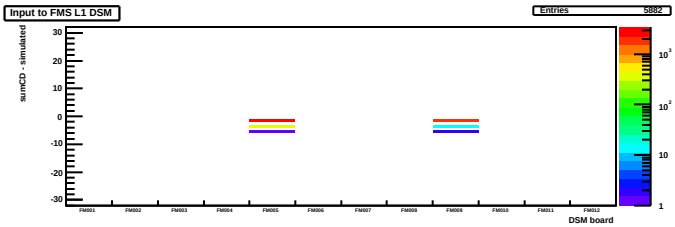

Input to FMS L1 DSM
Entries 3801480
sumBC
DSM board

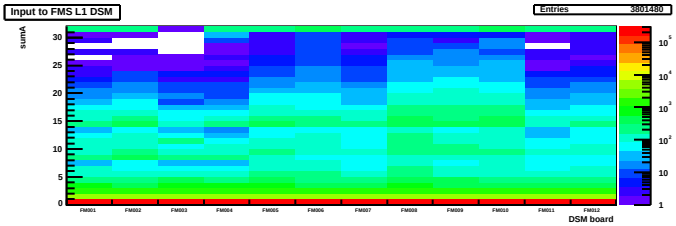

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

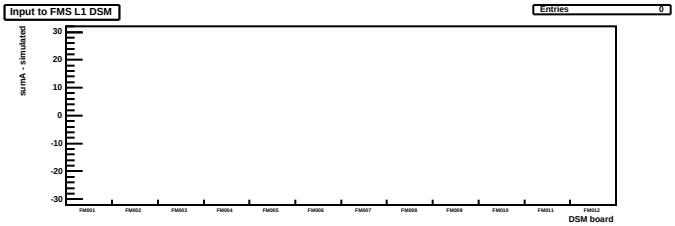

Input to FMS L1 DSM
Entries 3801480
sumB
DSM board

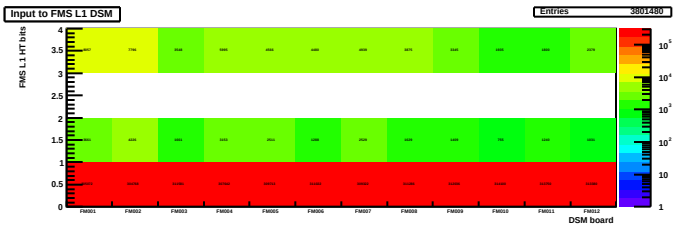

Input to FMS L1 DSM
Entries 715
sumB - simulated
DSM board

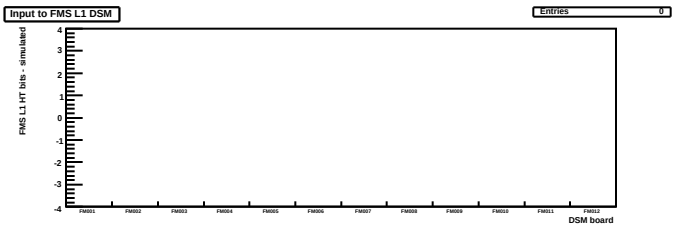

Input to FMS L1 DSM
Entries 3801480
sumCD
DSM board

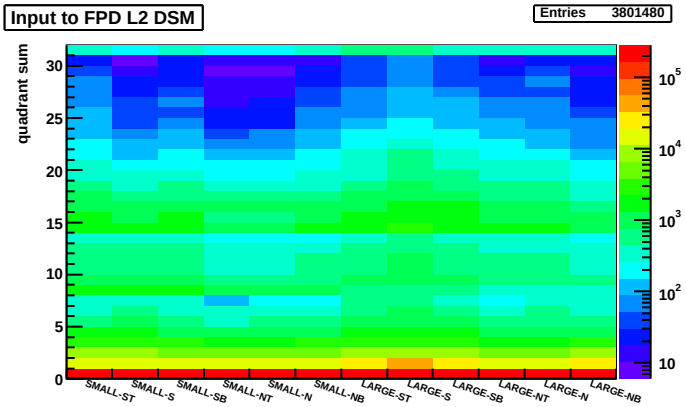

Input to FMS L1 DSM
Entries 5882
sumCD - simulated
DSM board

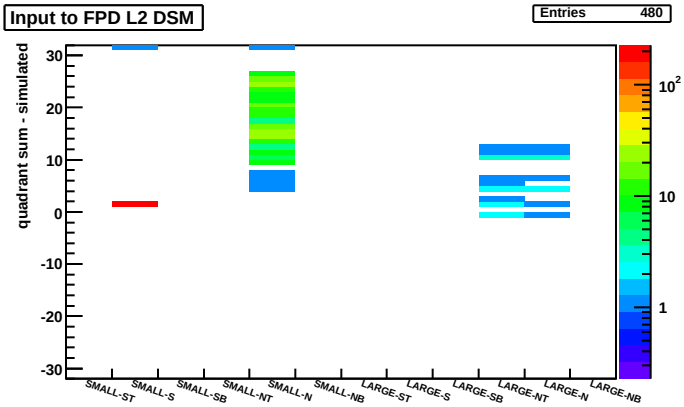

Input to FMS L1 DSM
Entries 3801480
sumA
DSM board

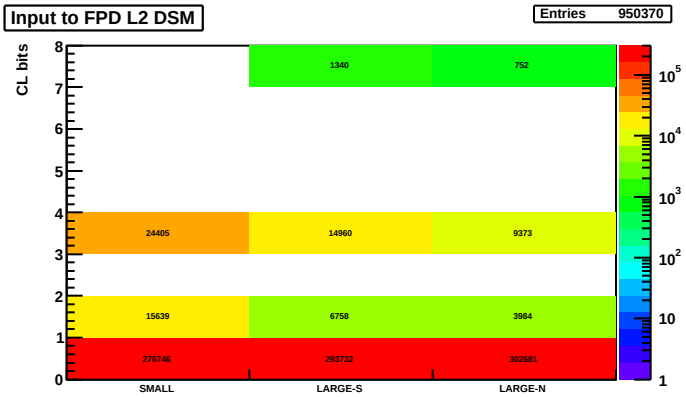

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

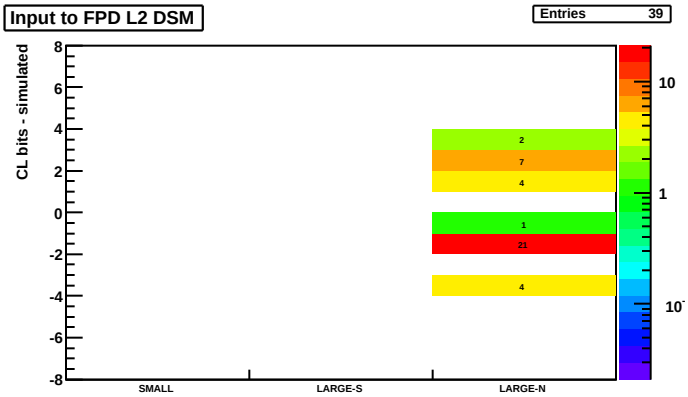

Input to FMS L1 DSM
Entries 3801480
FMS L1 HT bits
DSM board

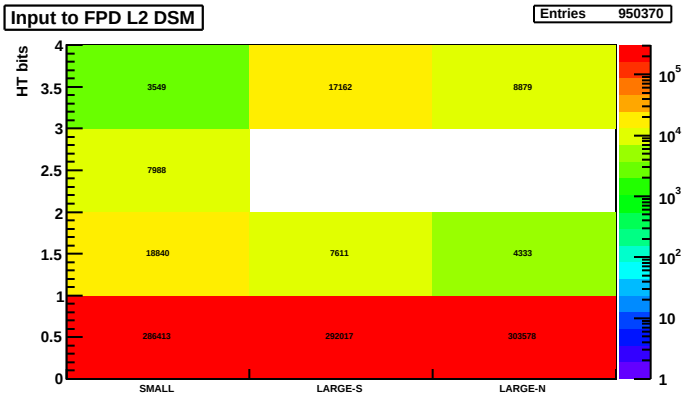

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

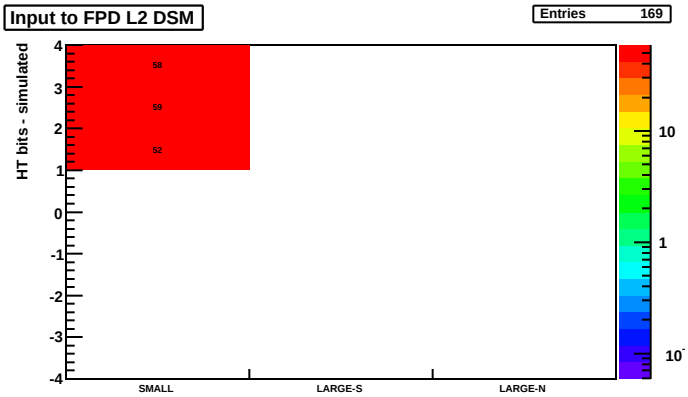

Input to FPD L2 DSM
Entries 3801480
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

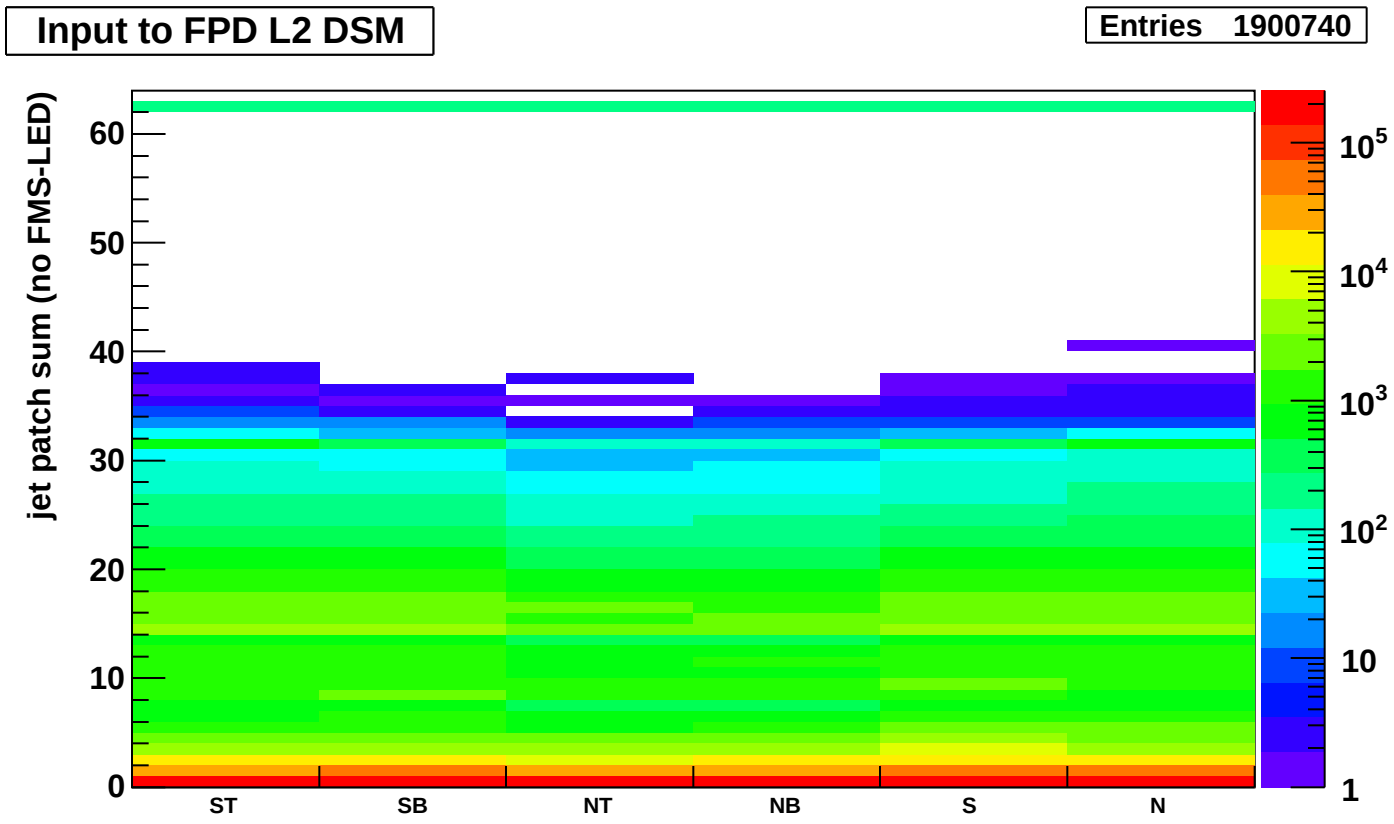

Input to FPD L2 DSM
Entries 480
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

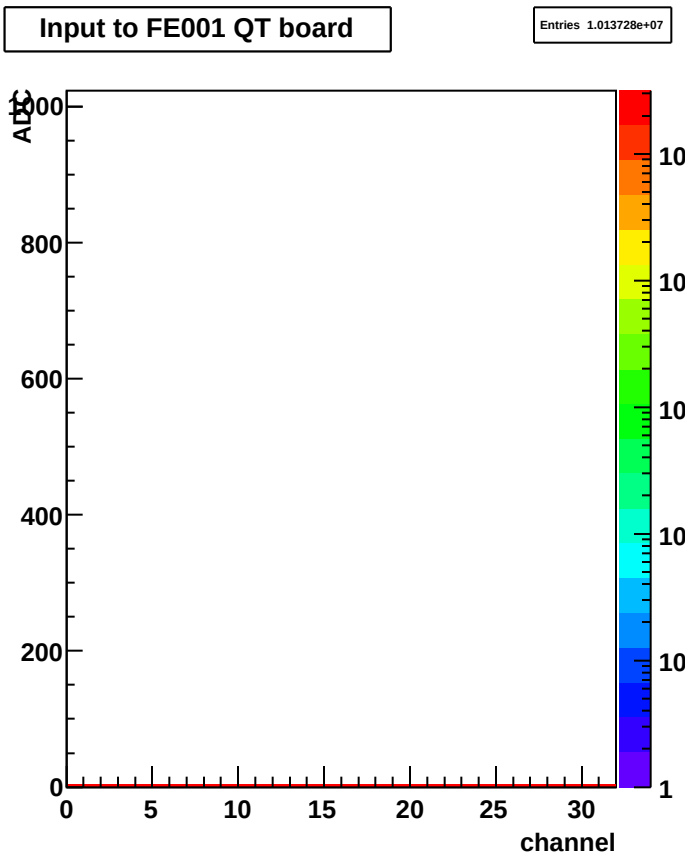

Input to FPD L2 DSM
Entries 950370
CL bits
1340
752
24405
14960
9373
15639
6758
3984
276746
293732
302681
SMALL
LARGE-S
LARGE-N

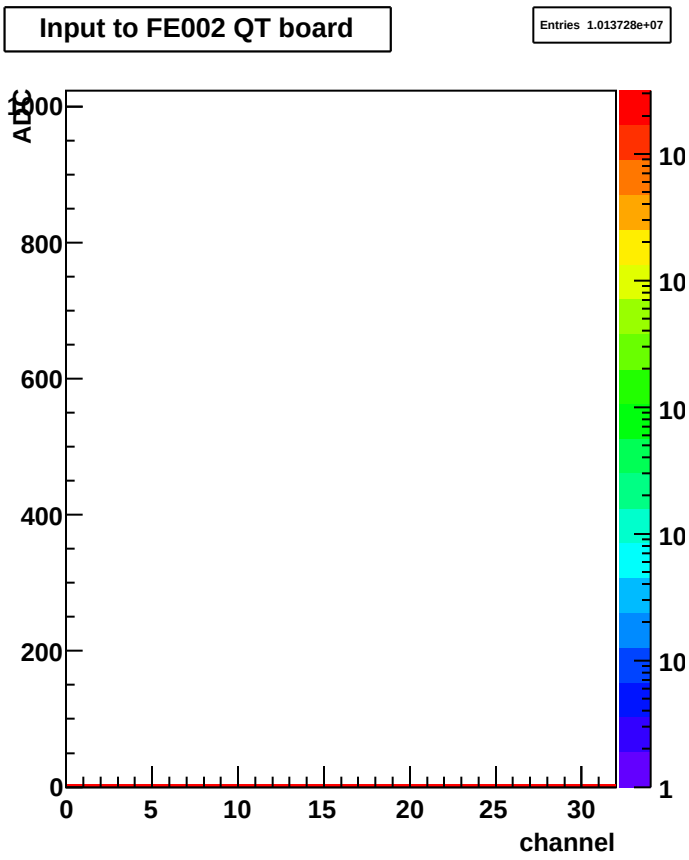

Input to FPD L2 DSM
Entries 39
CL bits - simulated
2
7
4
1
21
4
SMALL
LARGE-S
LARGE-N

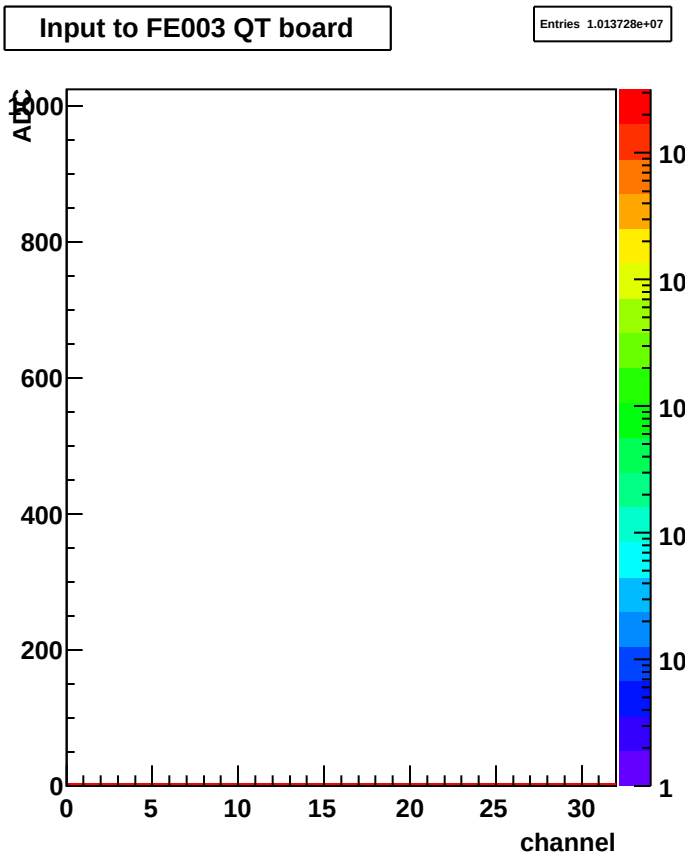

Input to FPD L2 DSM
Entries 950370
HT bits
3549
17162
8879
7988
18840
7611
4333
286413
292017
303578
SMALL
LARGE-S
LARGE-N

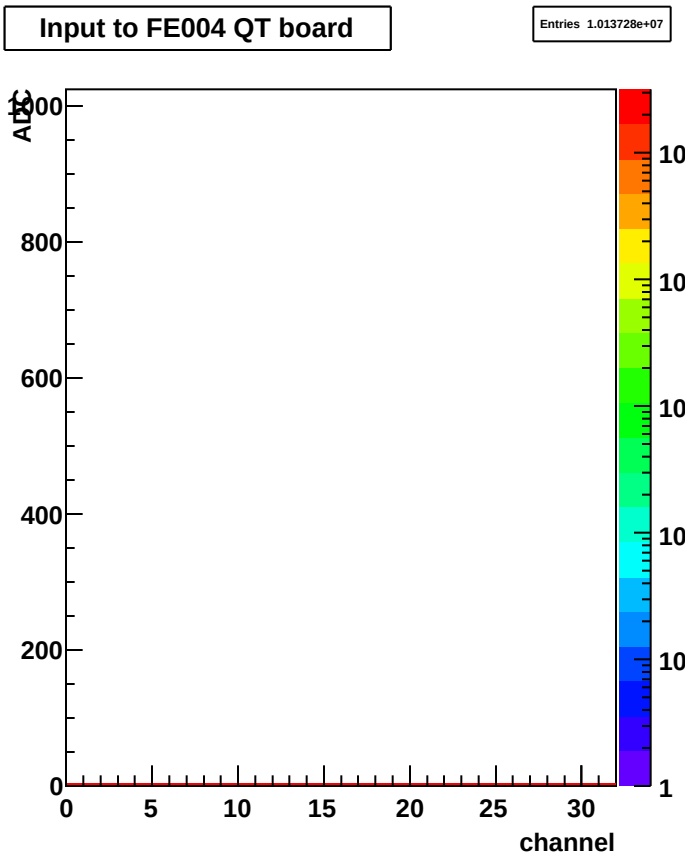

Input to FPD L2 DSM
Entries 169
HT bits - simulated
58
59
52
SMALL
LARGE-S
LARGE-N

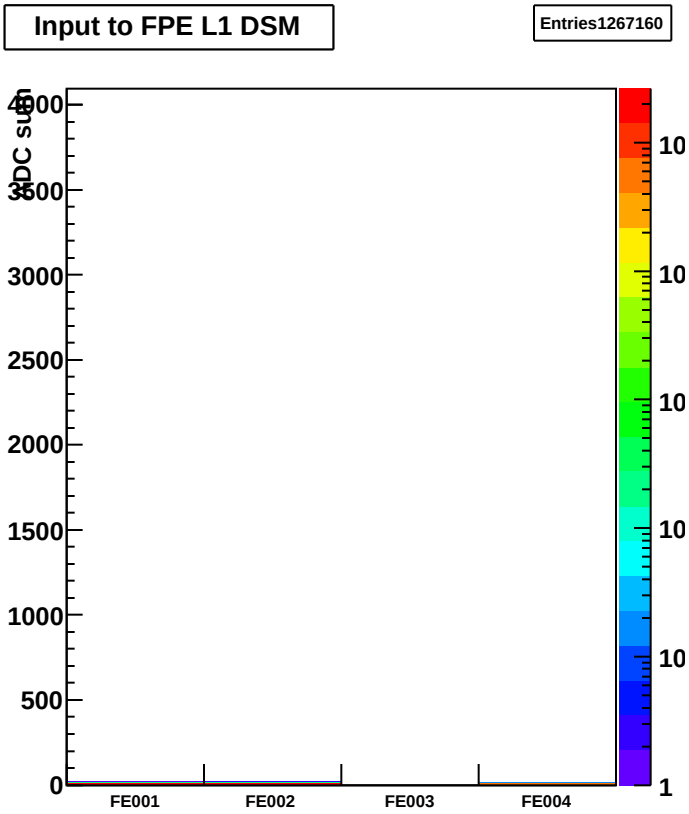

Input to FPD L2 DSM
Entries 1900740
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

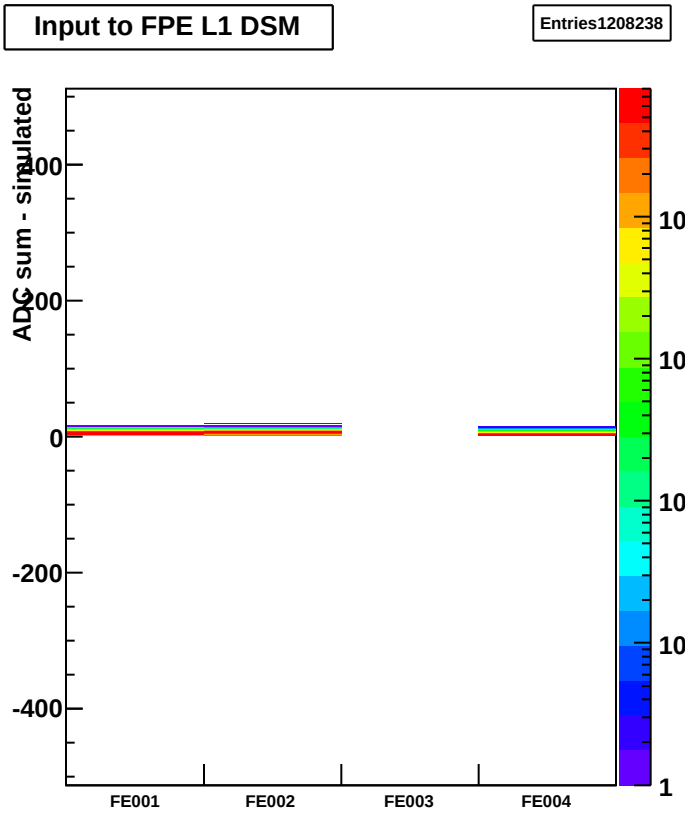

Input to FE001 QT board
Entries 1.013728e+07
ADC
channel

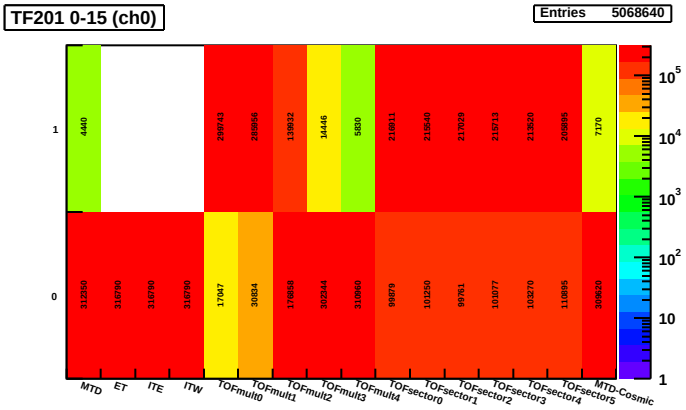

Input to FE002 QT board
Entries 1.013728e+07
ADC
channel

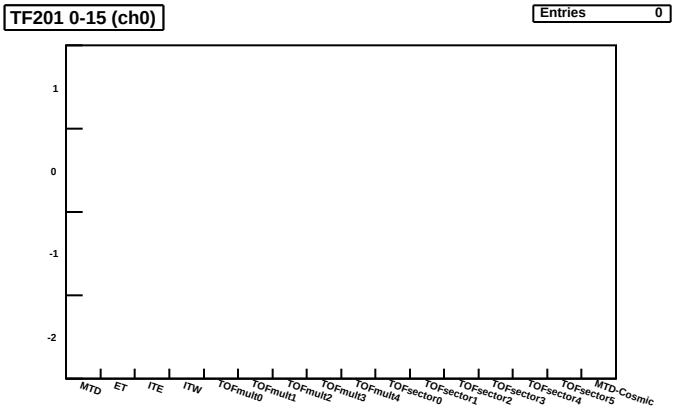

Input to FE003 QT board
Entries 1.013728e+07
ADC
channel

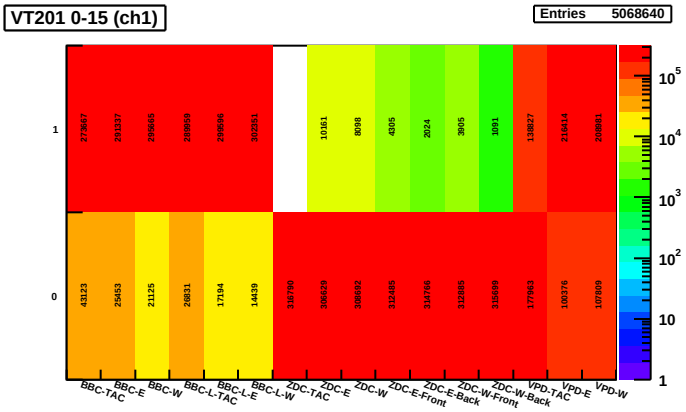

Input to FE004 QT board
Entries 1.013728e+07
ADC
channel

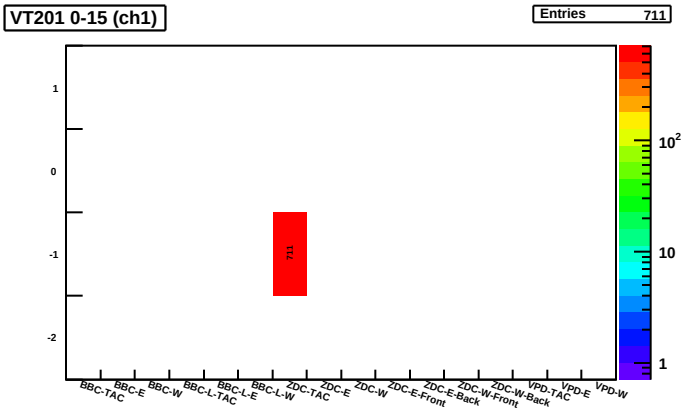

Input to FPE L1 DSM
Entries1267160
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

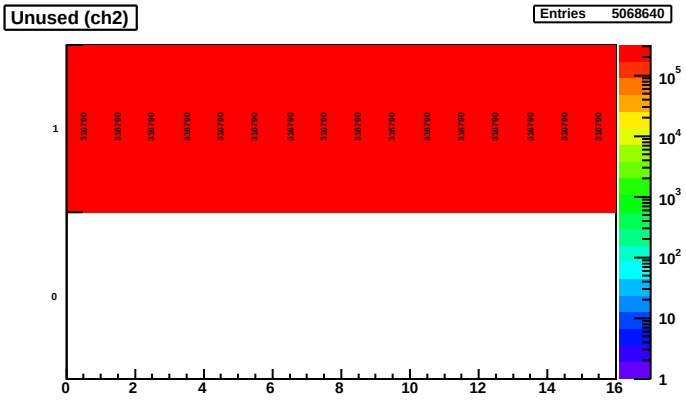

Input to FPE L1 DSM
Entries1208238
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 5068640
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 5068640
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 711
711
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W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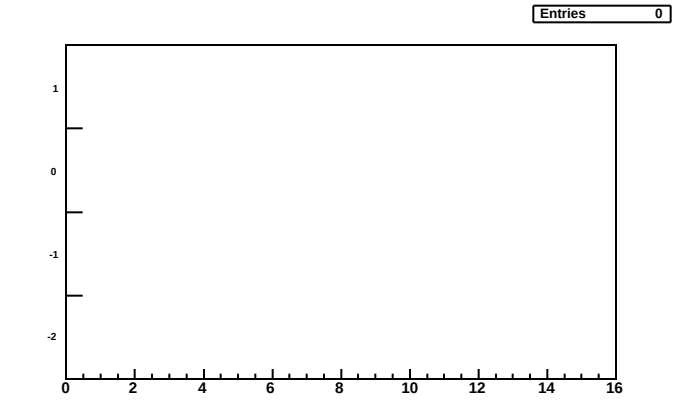
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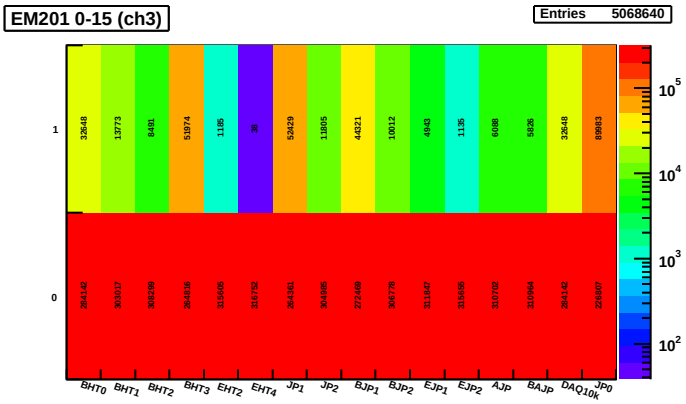
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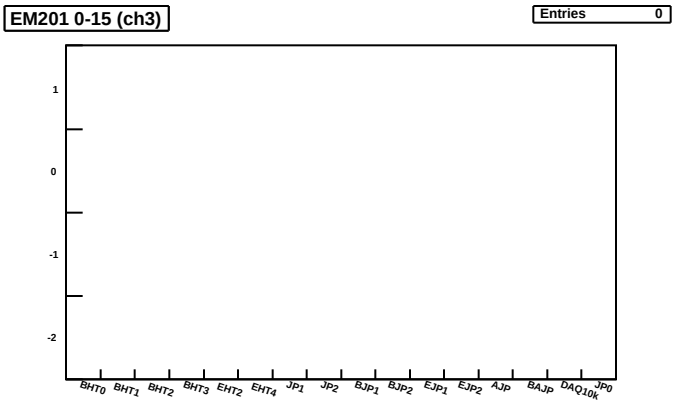
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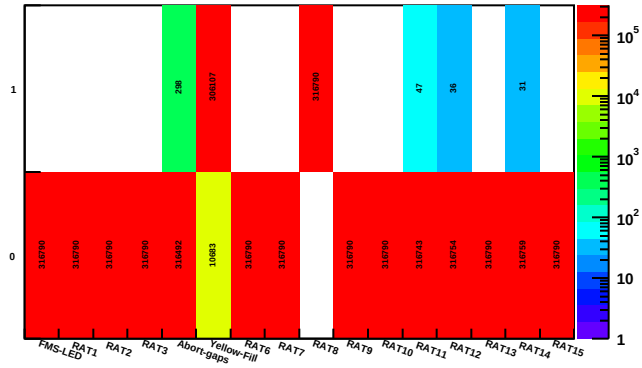
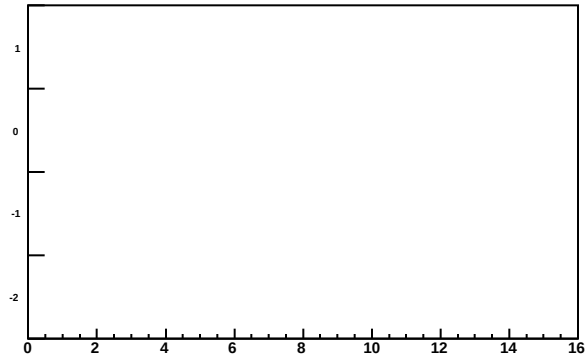
RAT board (ch4)





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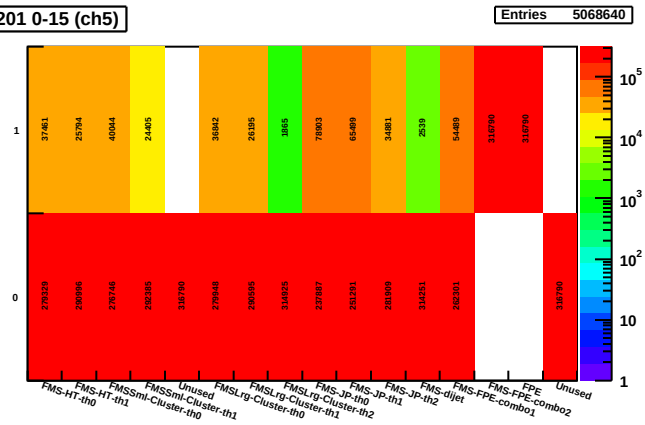

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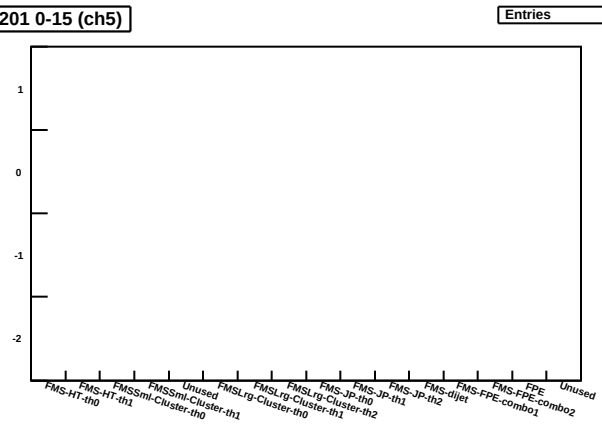

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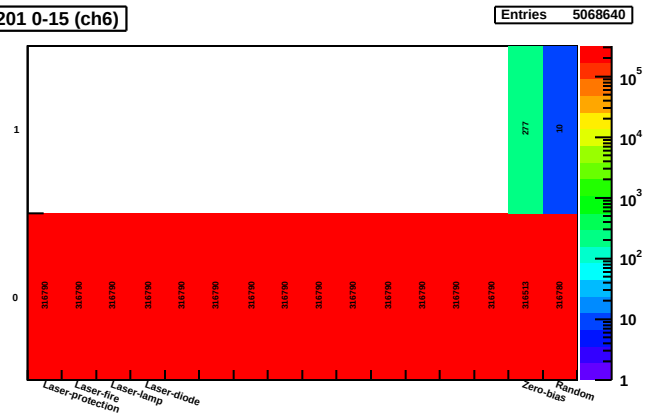

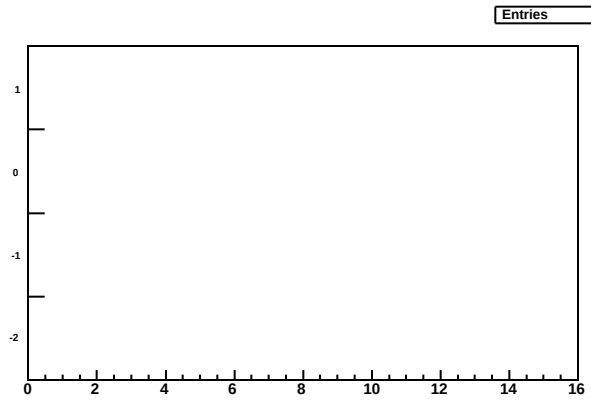
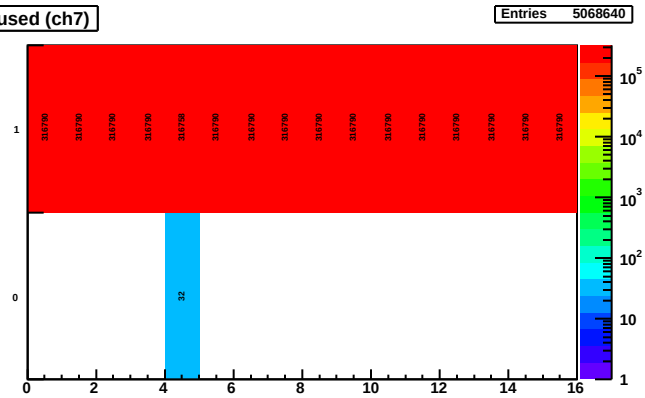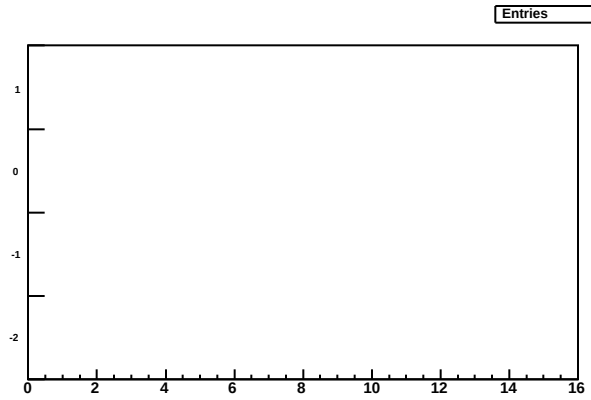
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