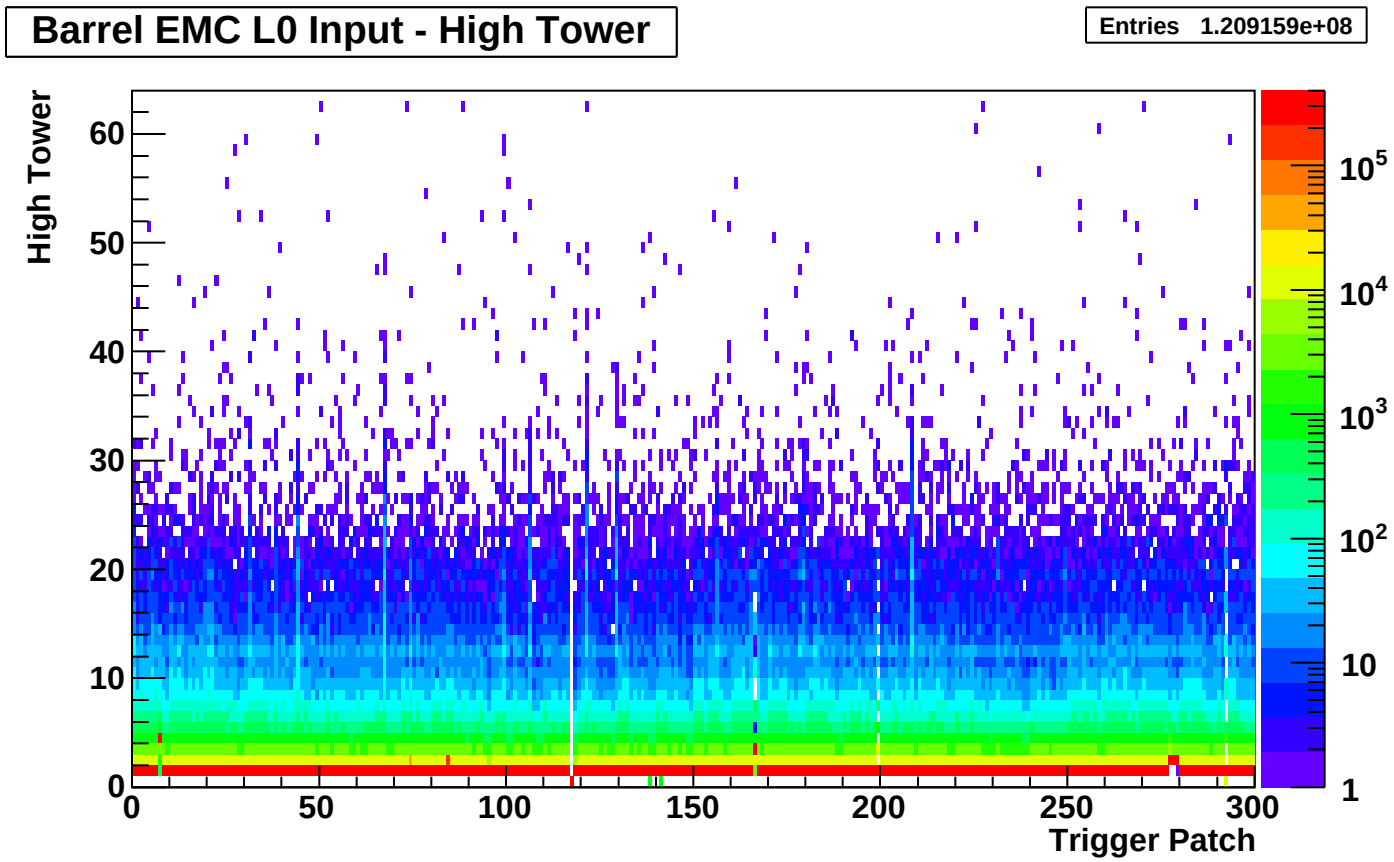
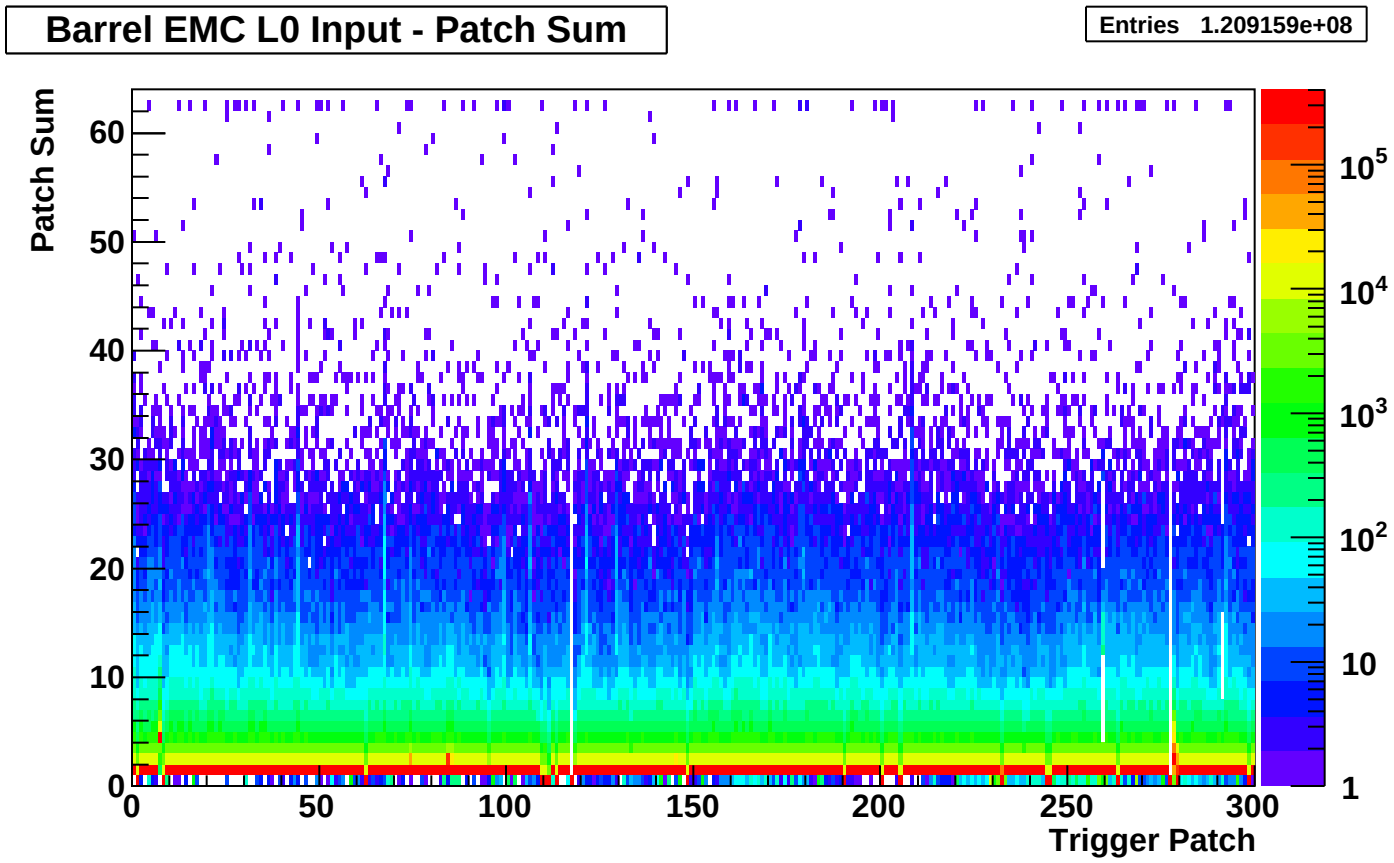
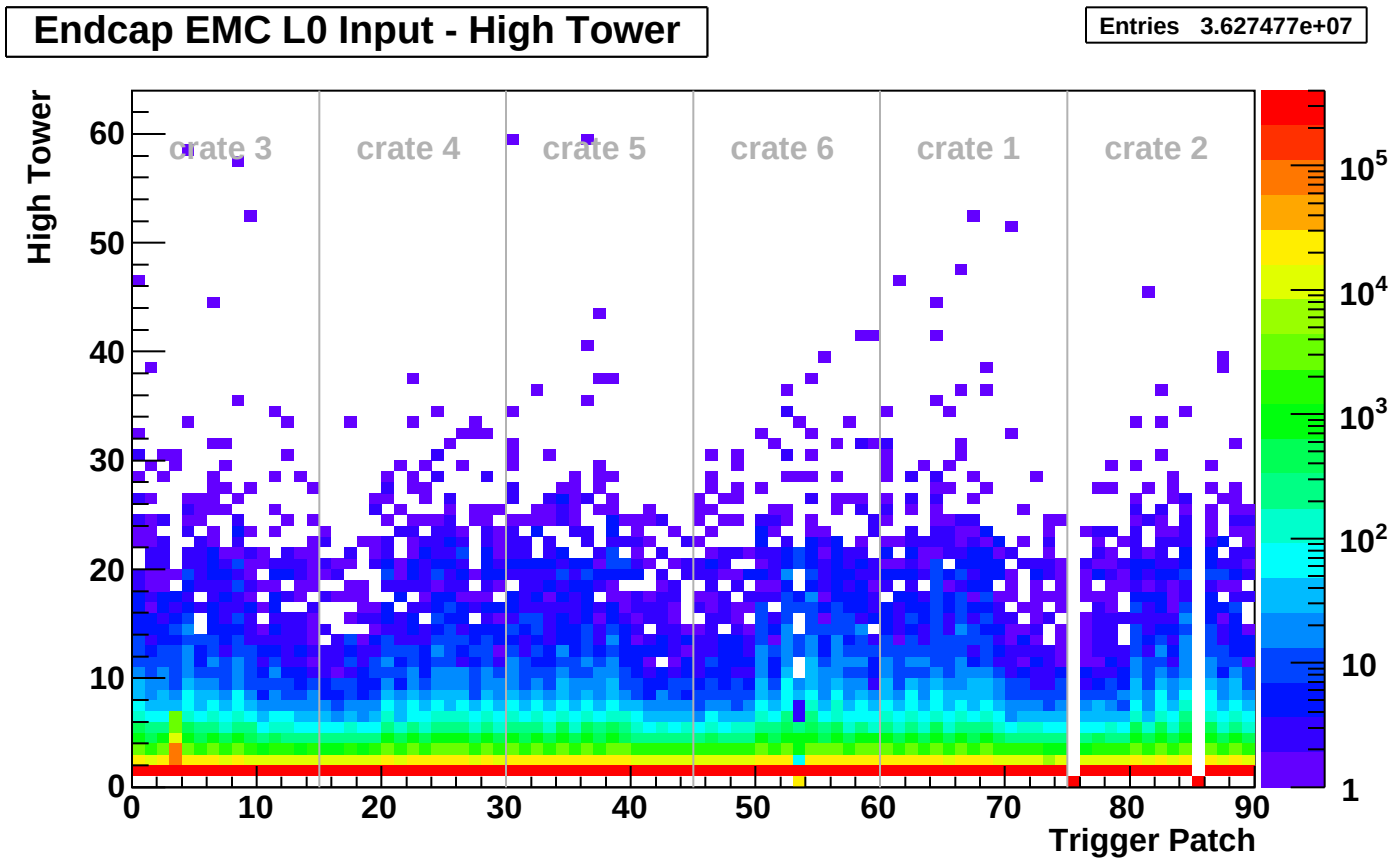
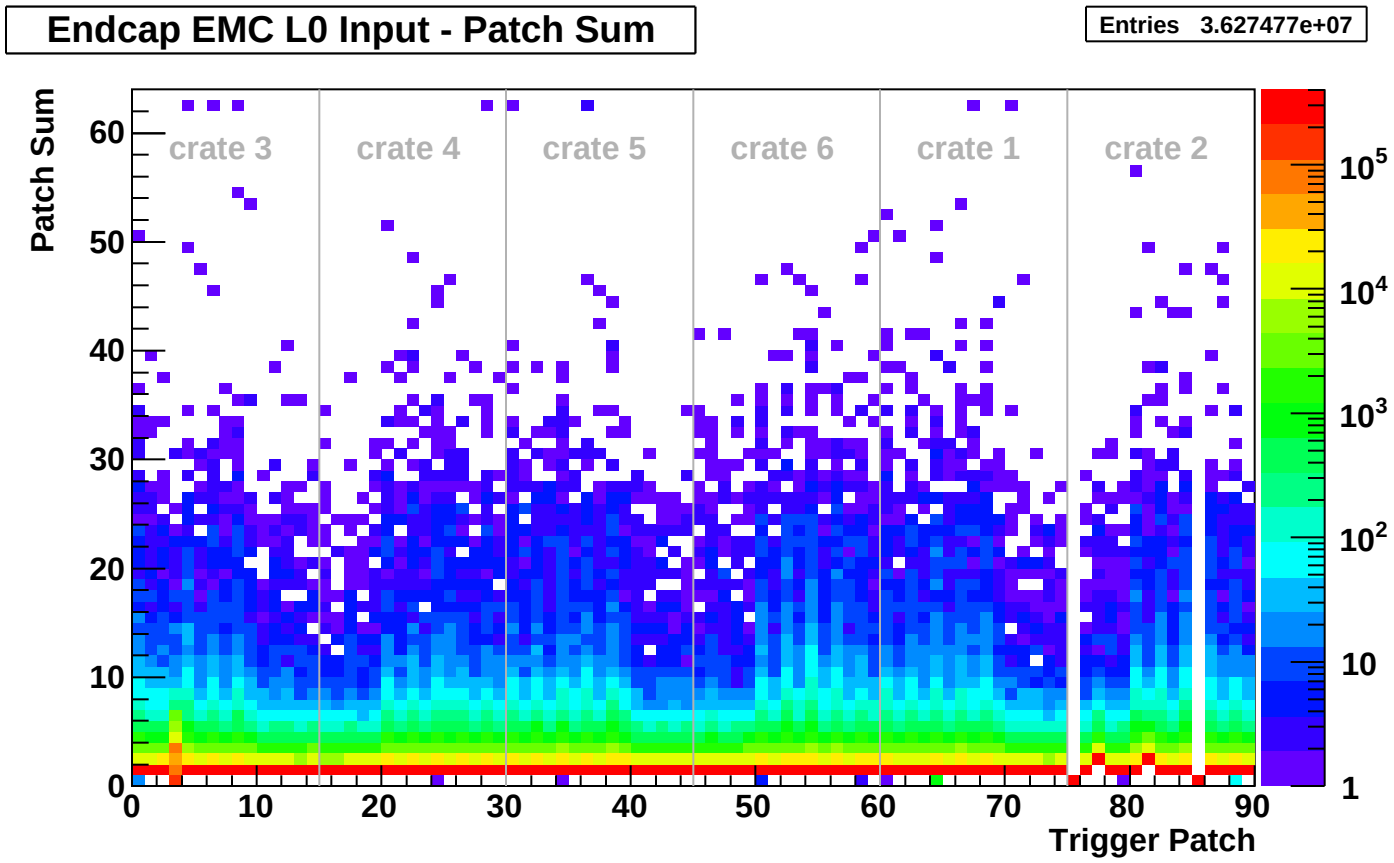
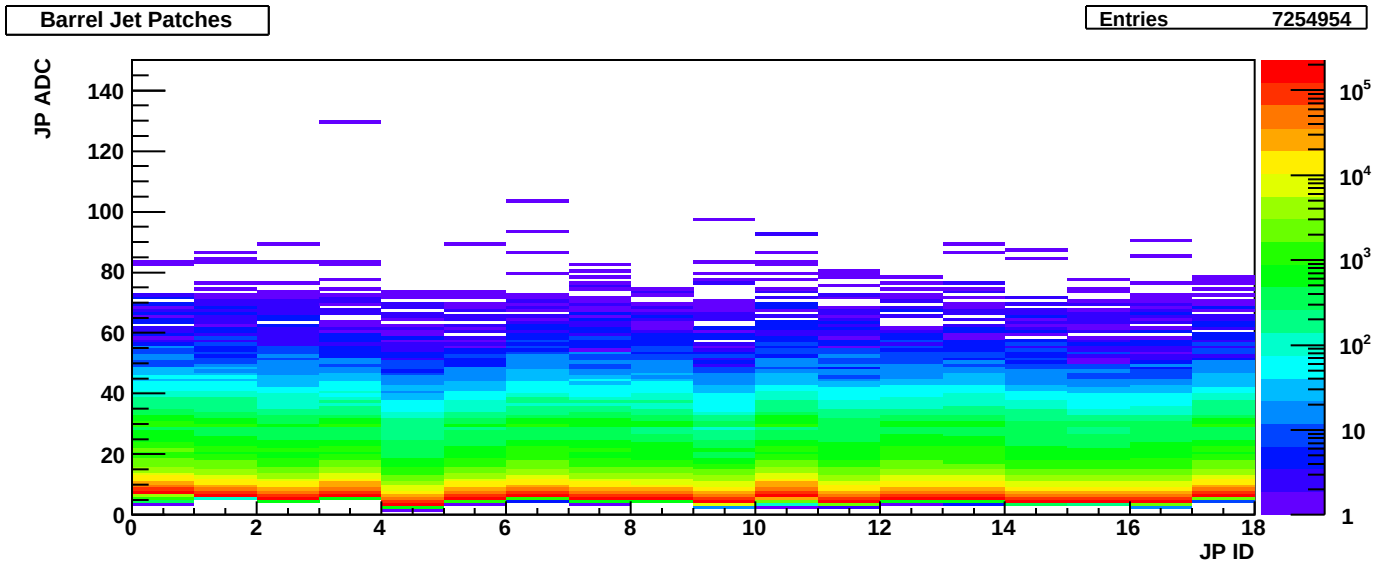
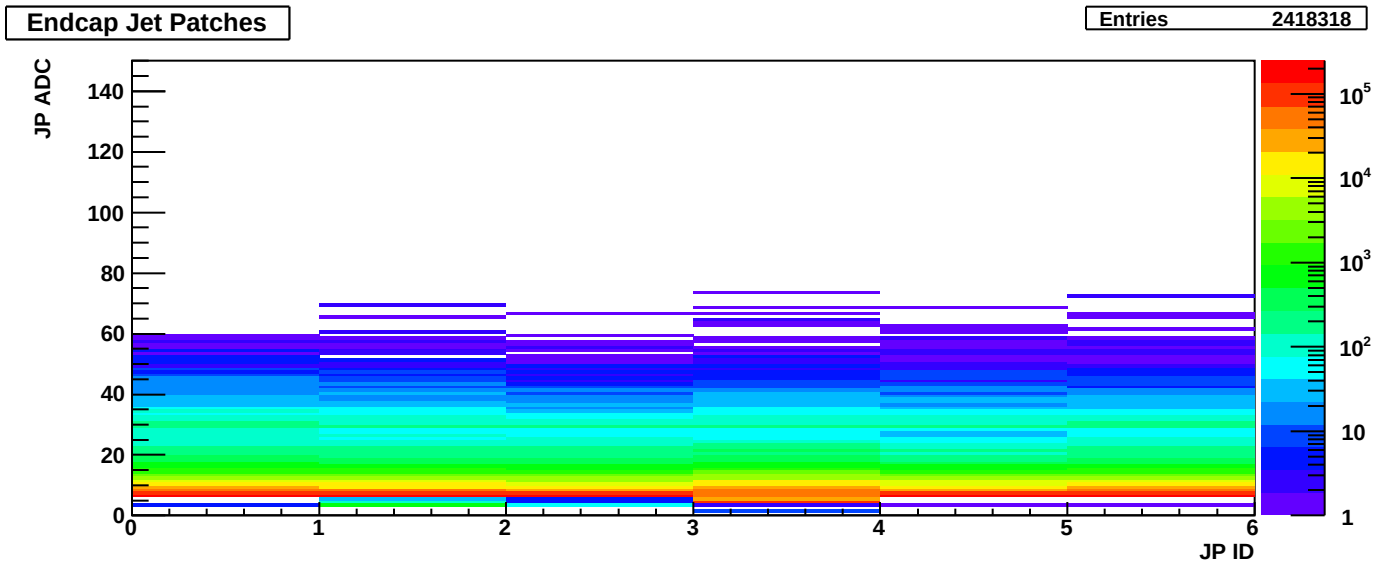

Barrel EMC L0 Input - High Tower
Entries 1.209159e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

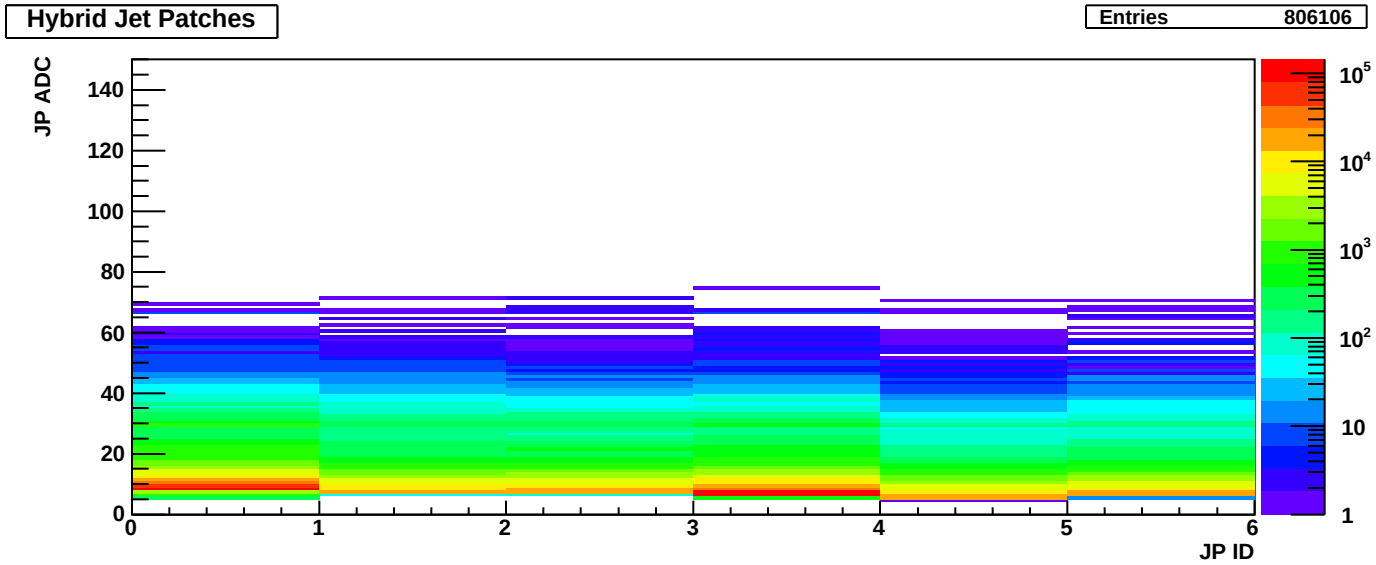

Barrel EMC L0 Input - Patch Sum
Entries 1.209159e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

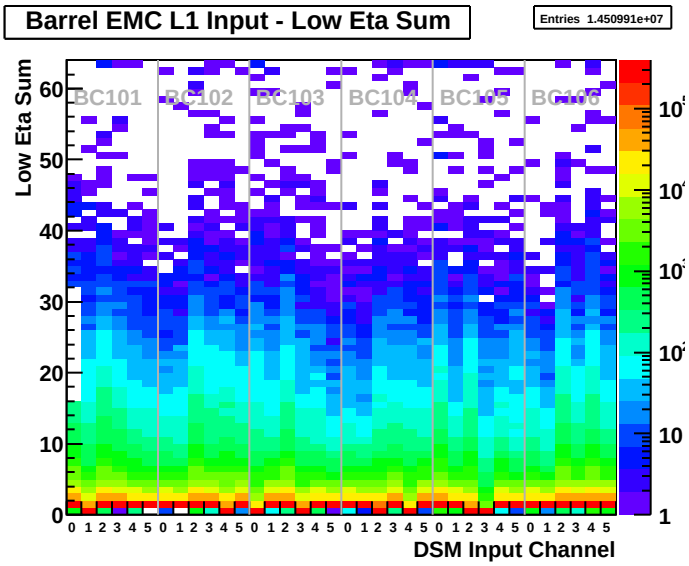

Endcap EMC L0 Input - High Tower
Entries 3.627477e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

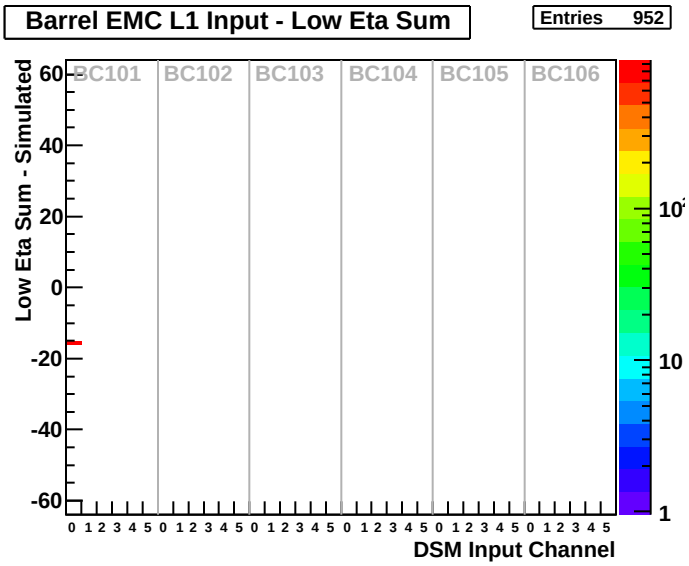

Endcap EMC L0 Input - Patch Sum
Entries 3.627477e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

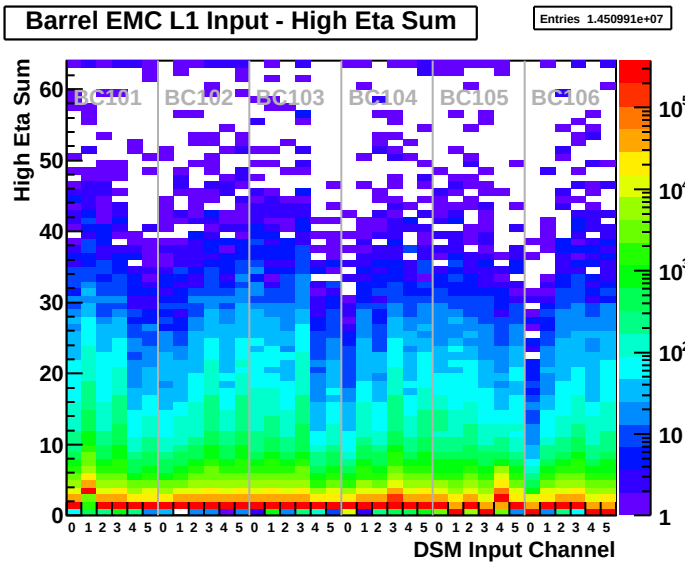

Barrel Jet Patches
Entries 7254954
JP ADC
JP ID

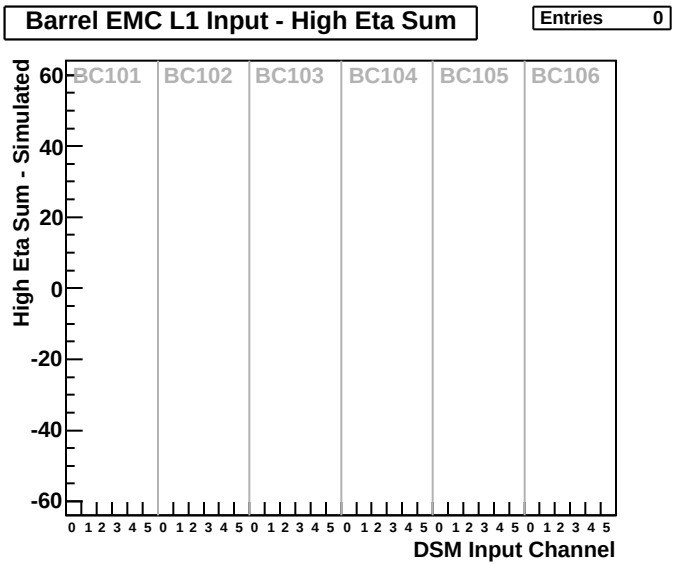

Endcap Jet Patches
Entries 2418318
JP ADC
JP ID

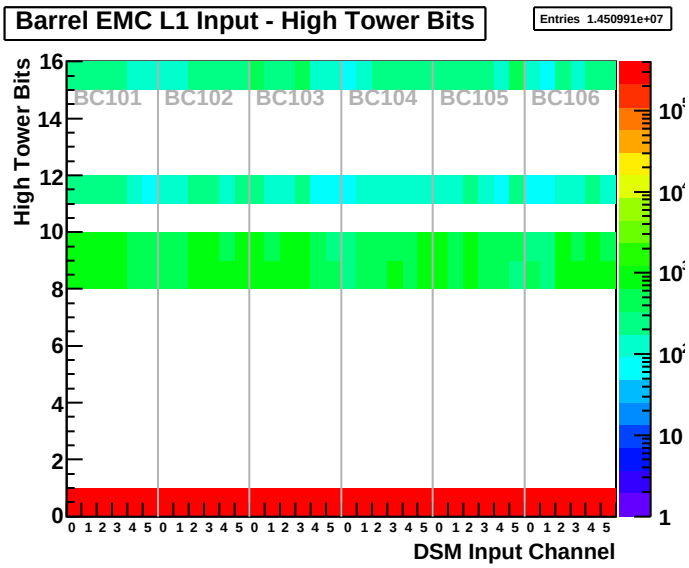

Hybrid Jet Patches
Entries 806106
JP ADC
JP ID

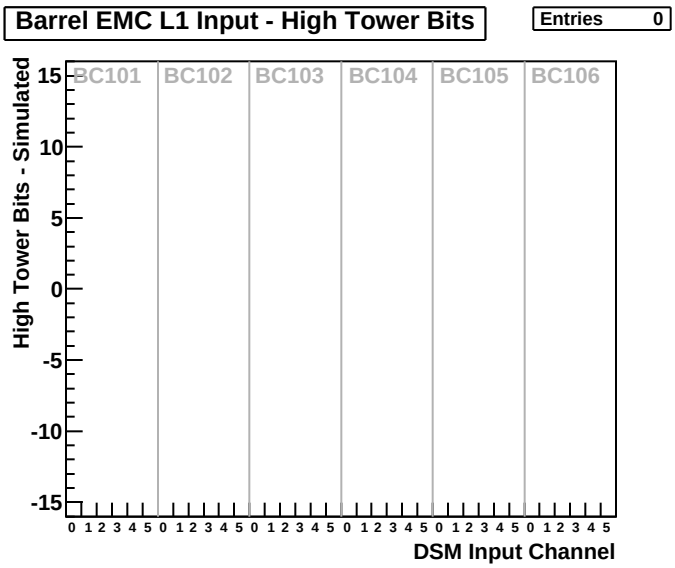

Barrel EMC L1 Input - Low Eta Sum
Entries 1.450991e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

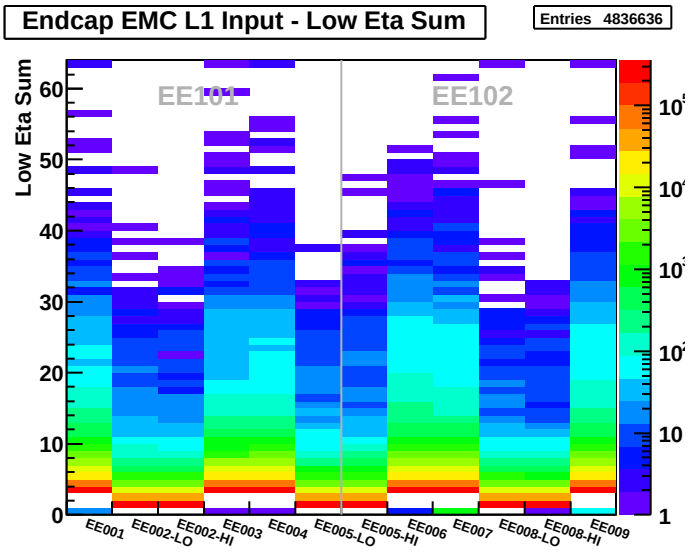

Barrel EMC L1 Input - Low Eta Sum
Entries 952
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

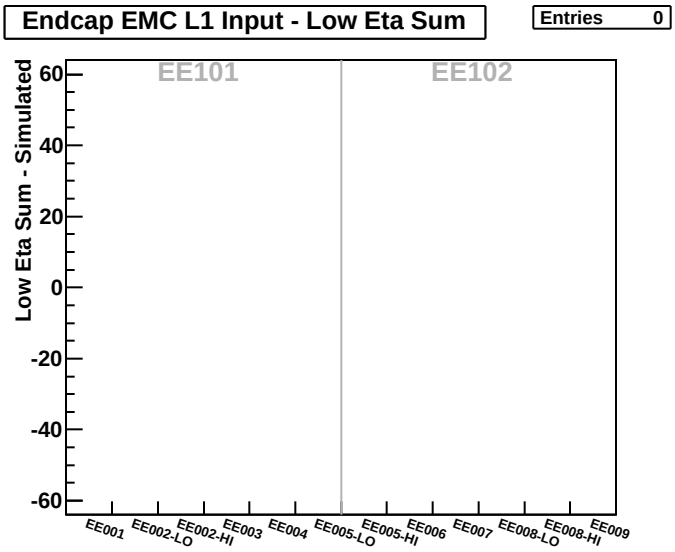

Barrel EMC L1 Input - High Eta Sum
Entries 1.450991e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

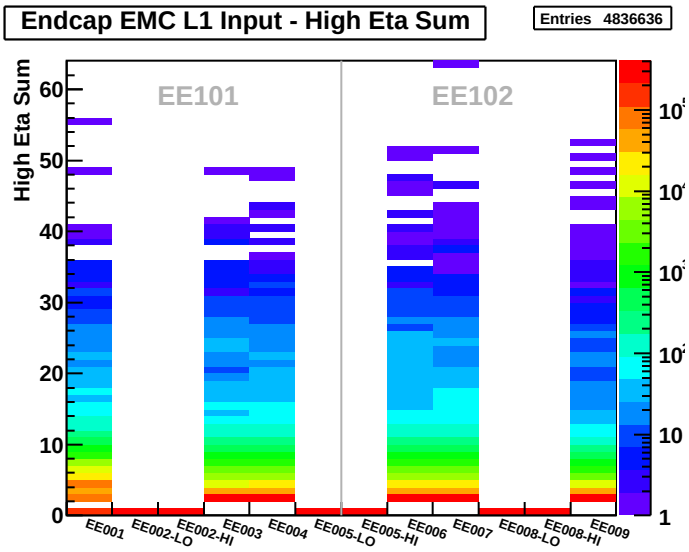

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

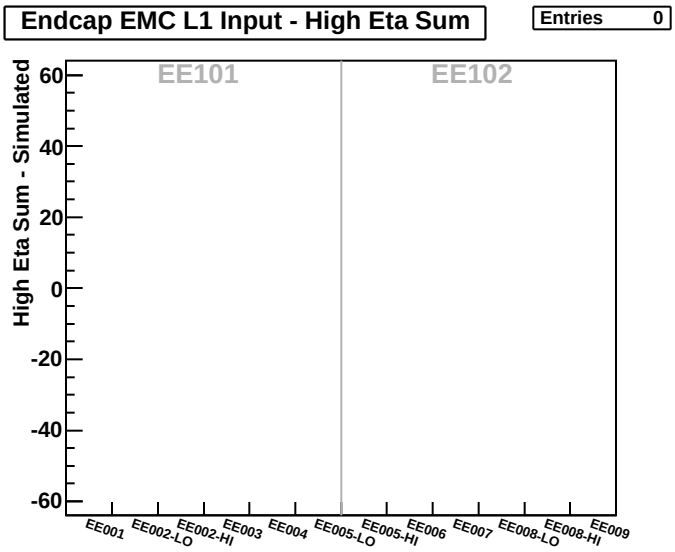

Barrel EMC L1 Input - High Tower Bits
Entries 1.450991e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

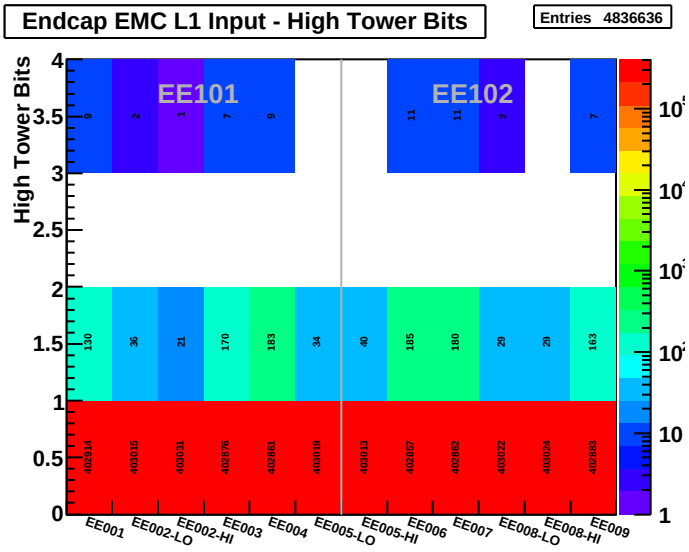

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

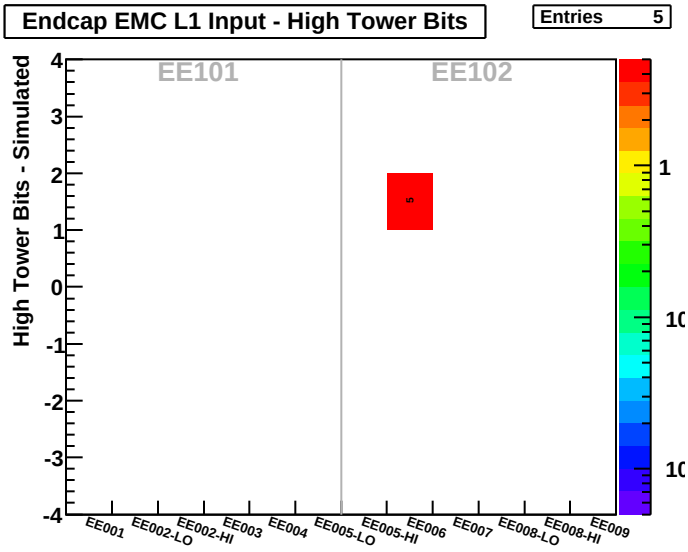

Endcap EMC L1 Input - Low Eta Sum
Entries 4836636
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

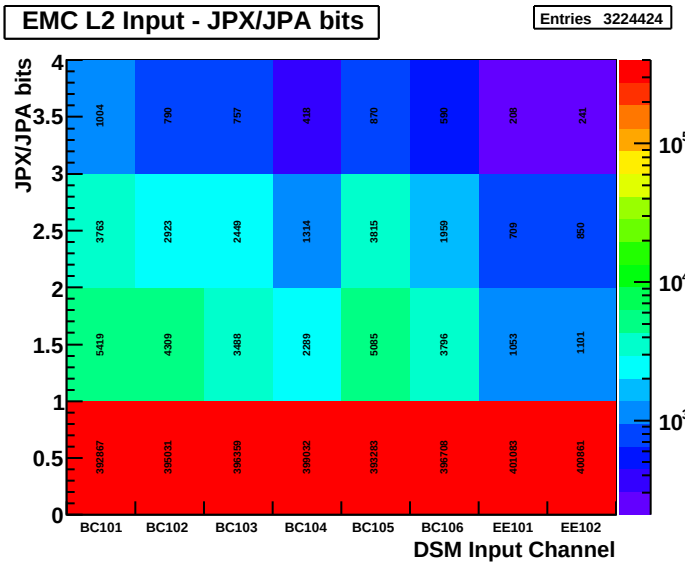

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

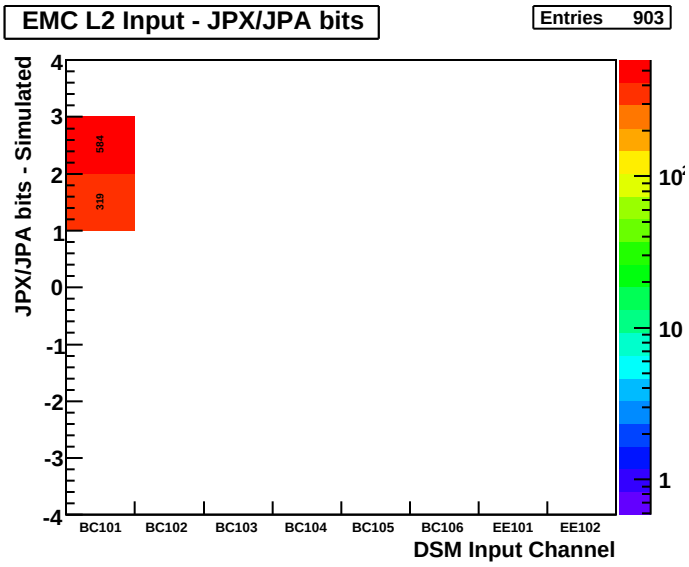

Endcap EMC L1 Input - High Eta Sum
Entries 4836636
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

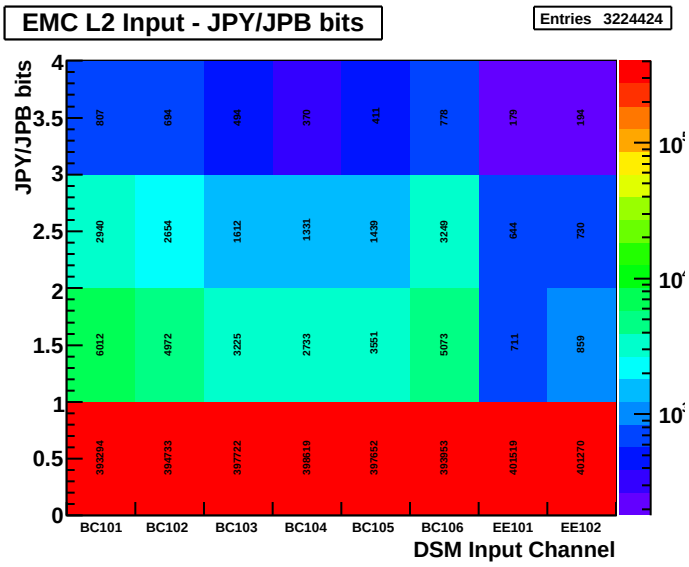

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

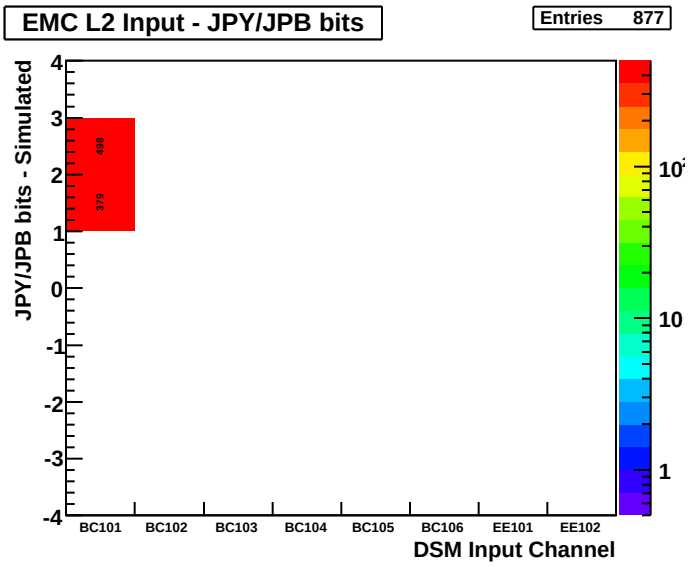

Endcap EMC L1 Input - High Tower Bits
Entries 4836636
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

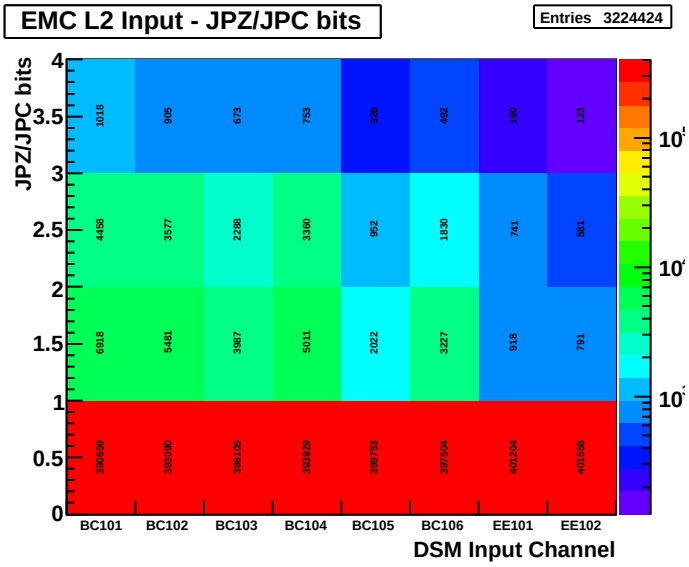

Endcap EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

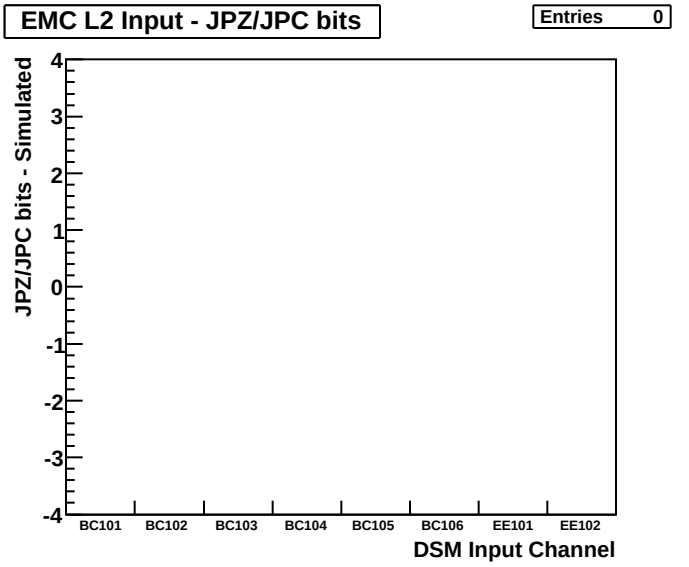

EMC L2 Input - JPX/JPA bits
Entries 3224424
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1004 790 757 418 870 590 208 241
3763 2923 2449 1314 3815 1959 709 850
5419 4309 3488 2289 5085 3796 1053 1101
392867 395031 398359 399032 393263 396708 401083 400861

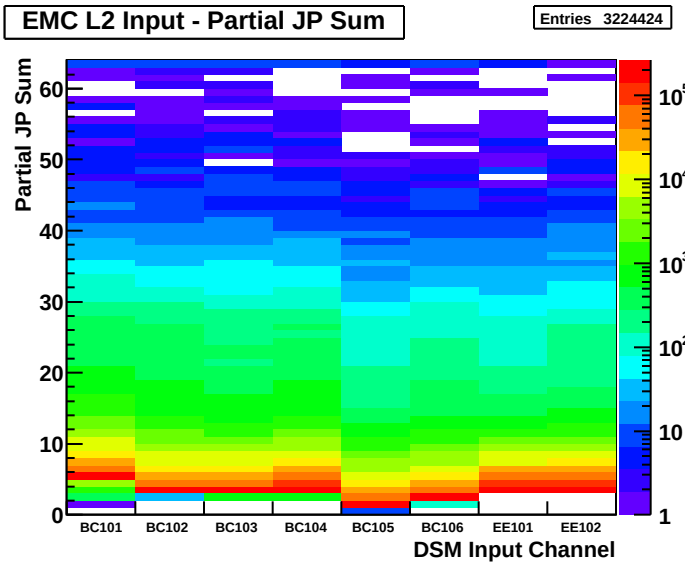

EMC L2 Input - JPX/JPA bits
Entries 903
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
584
319

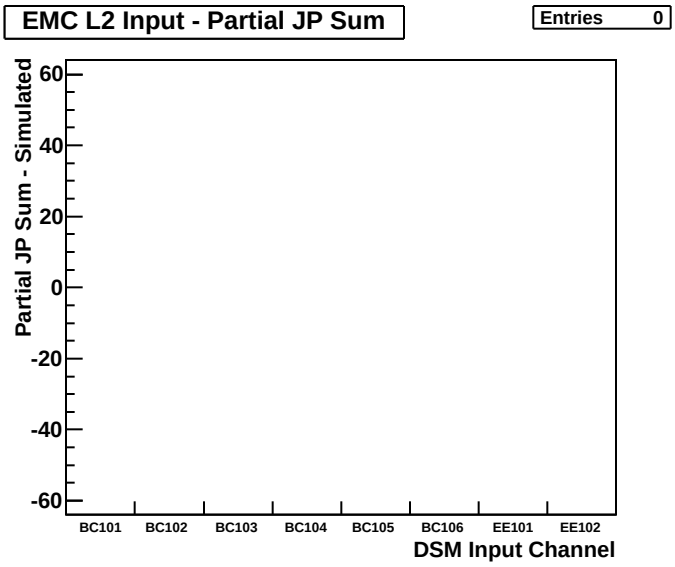

EMC L2 Input - JPY/JPB bits
Entries 3224424
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
807 694 494 370 411 778 179 194
2940 2654 1612 1331 1439 3249 644 730
6012 4972 3225 2733 3551 5073 711 859
393294 394733 397722 398619 397652 393953 401519 401270

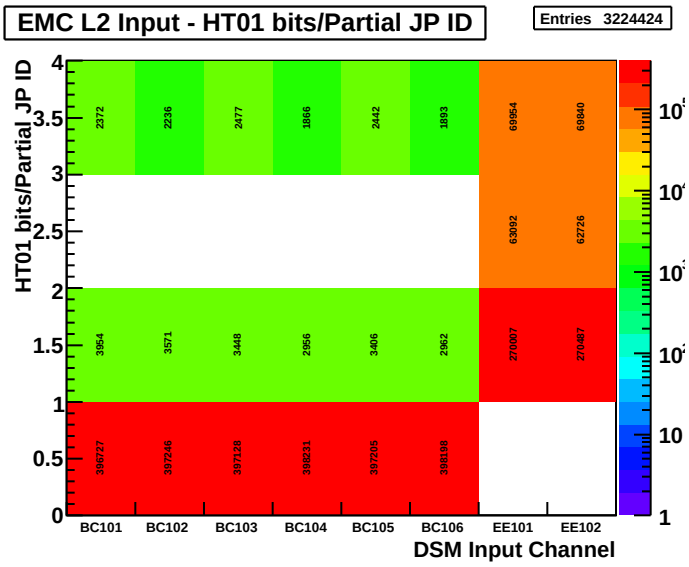

EMC L2 Input - JPY/JPB bits
Entries 877
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
498
379

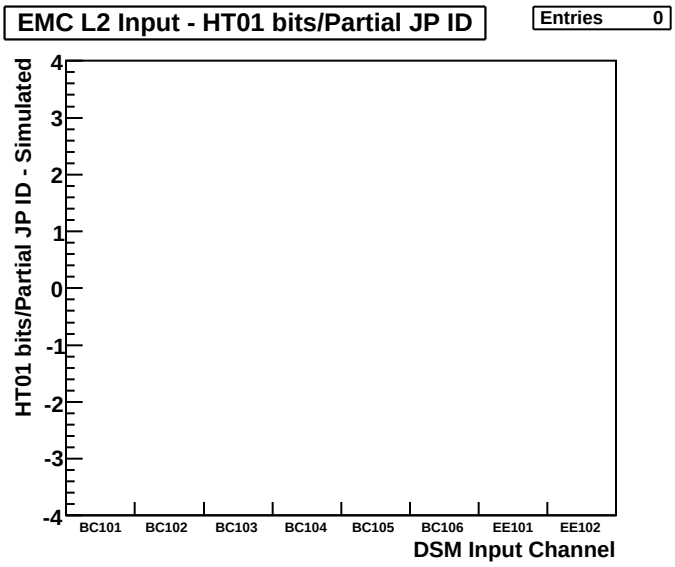

EMC L2 Input - JPZ/JPC bits
Entries 3224424
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1018 905 673 753 326 492 130 123
4458 3577 2288 3360 952 1830 741 581
6918 5481 3987 5011 2022 3227 918 791
390559 393090 396105 398329 399753 397504 401204 401558

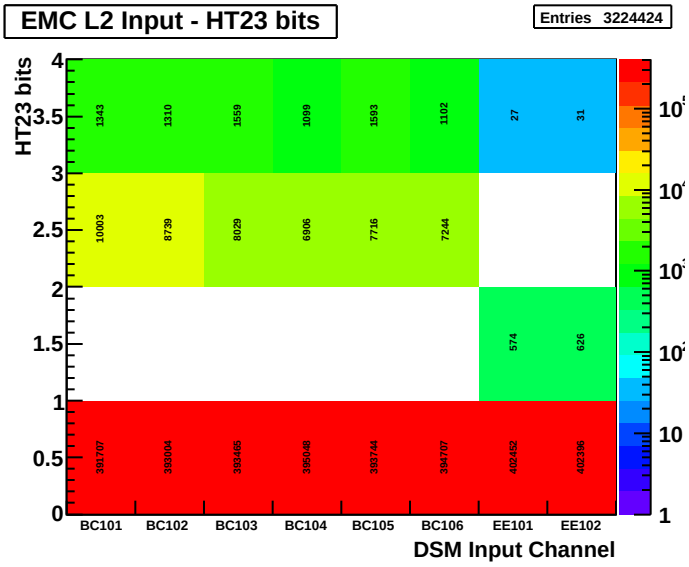

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

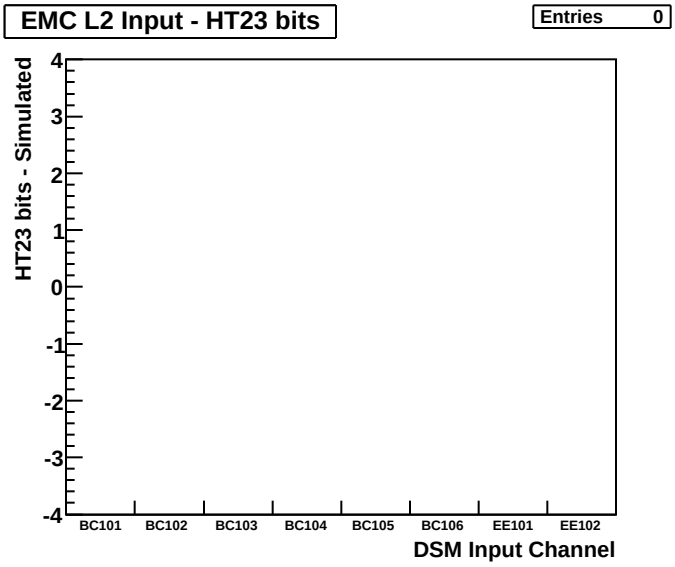

EMC L2 Input - Partial JP Sum
Entries 3224424
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

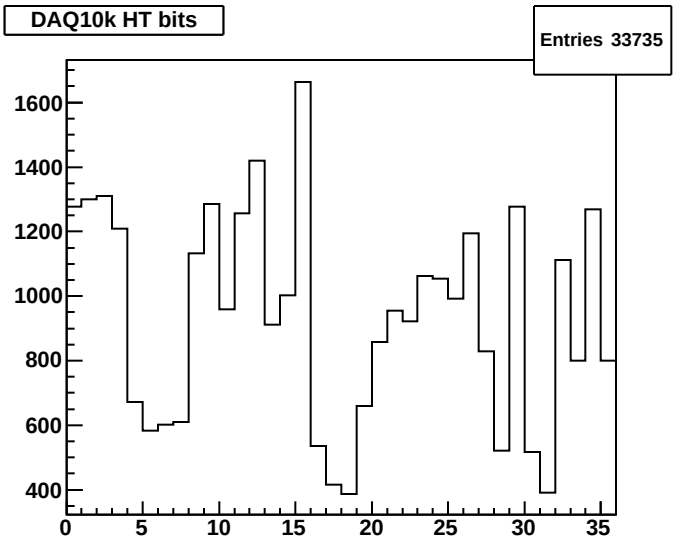

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

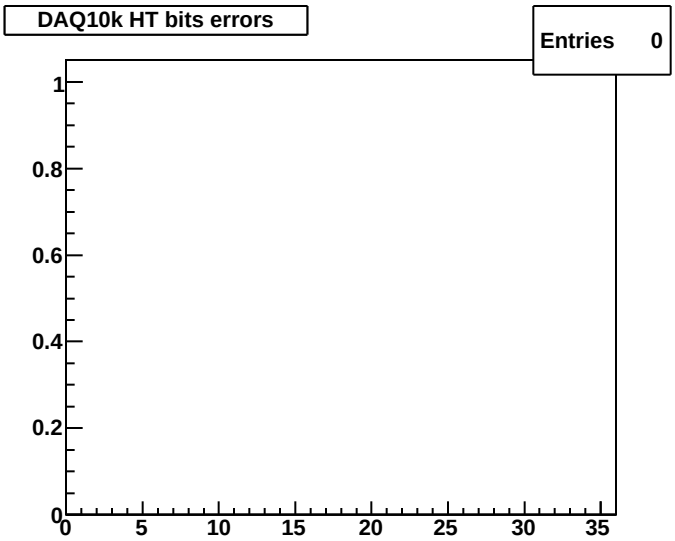

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3224424
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

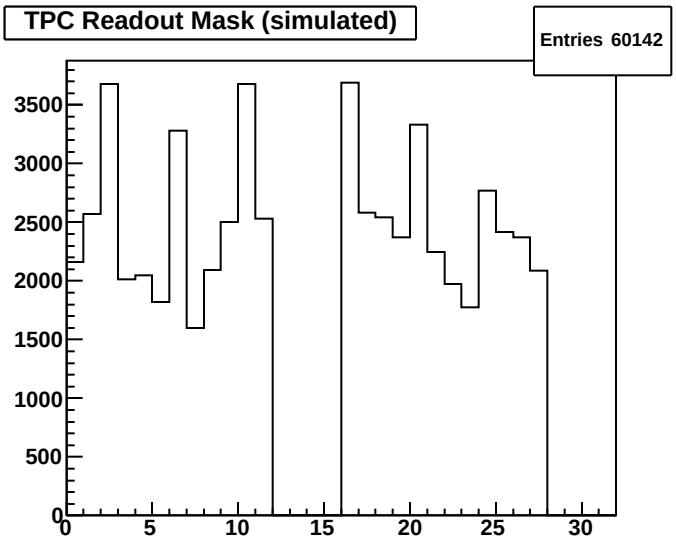

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

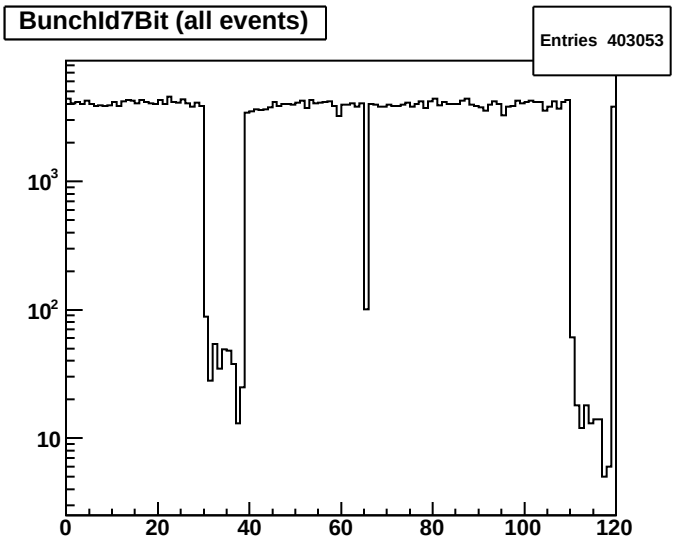

EMC L2 Input - HT23 bits
Entries 3224424
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

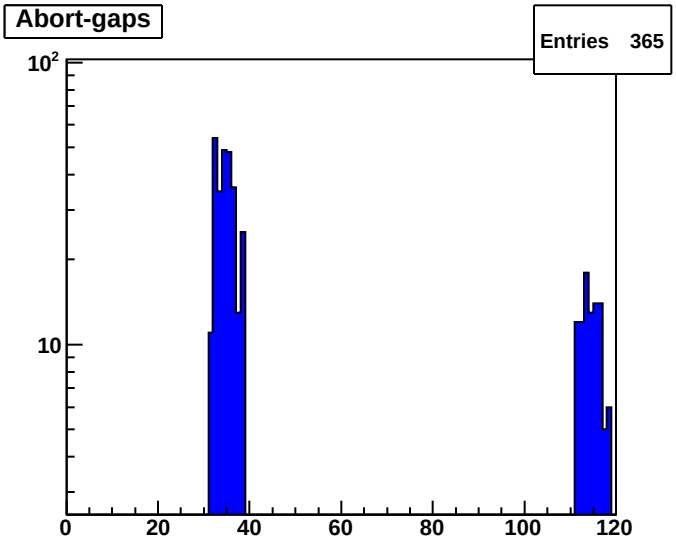

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

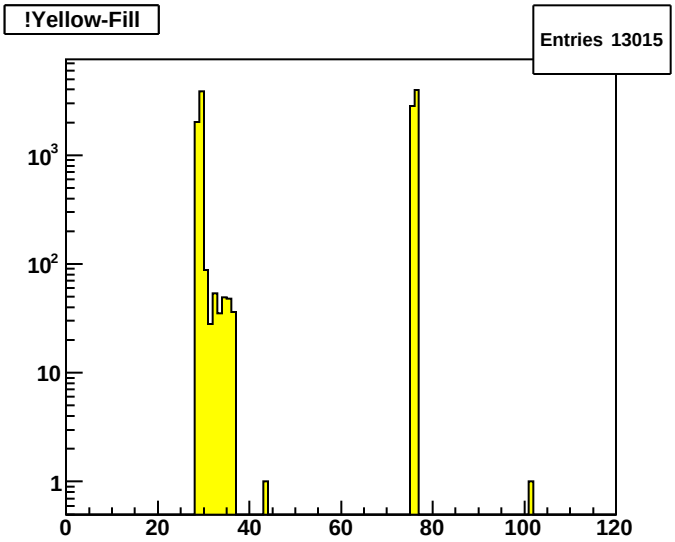

DAQ10k HT bits
Entries 33735

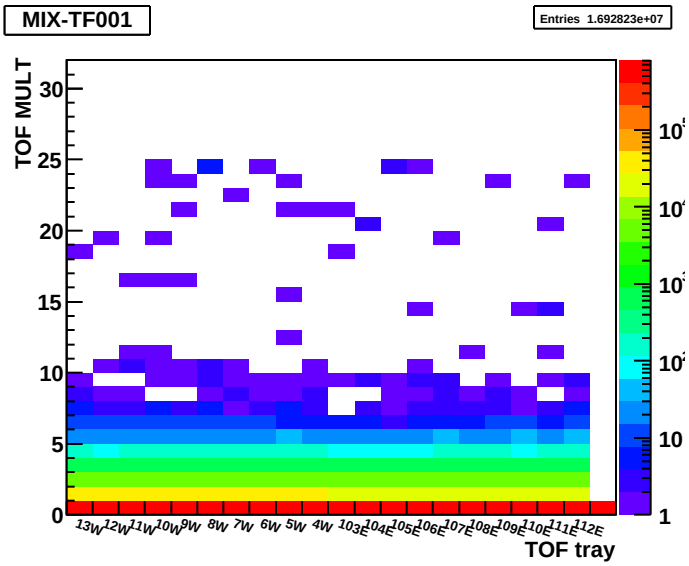

DAQ10k HT bits errors
Entries 0

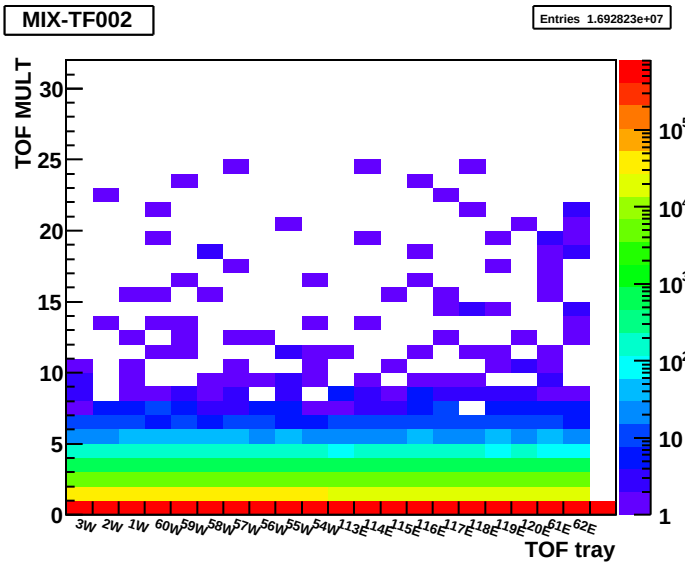

TPC Readout Mask (simulated)
Entries 60142

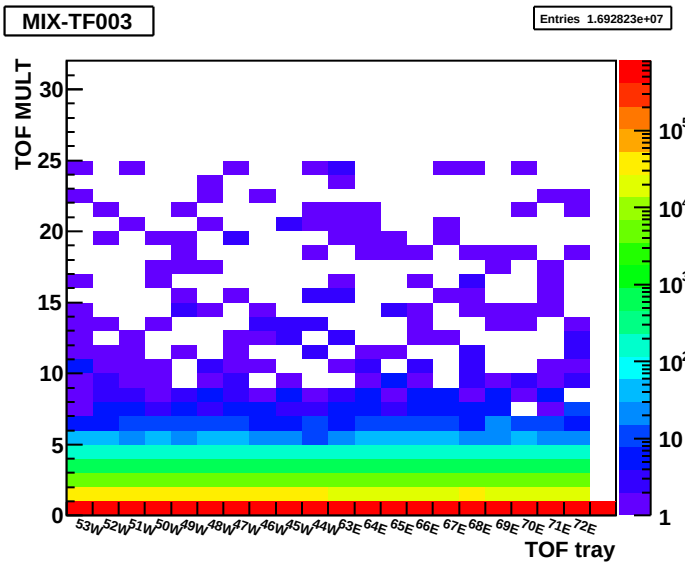

BunchId7Bit (all events)
Entries 403053

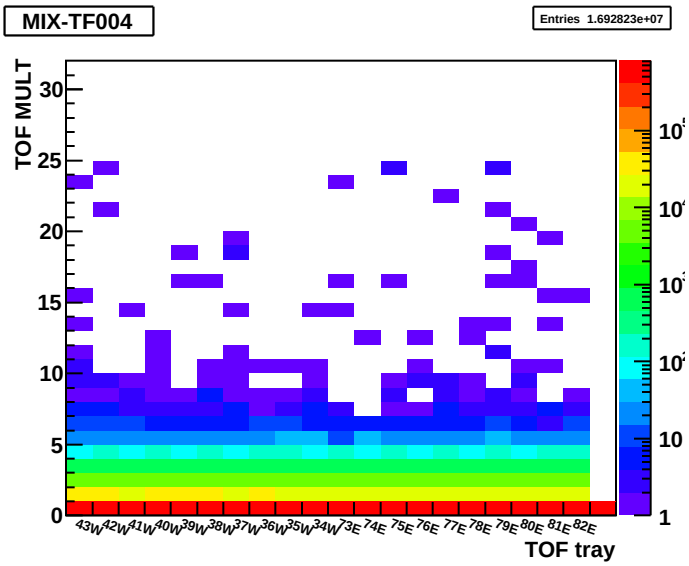

Abort-gaps
Entries 365

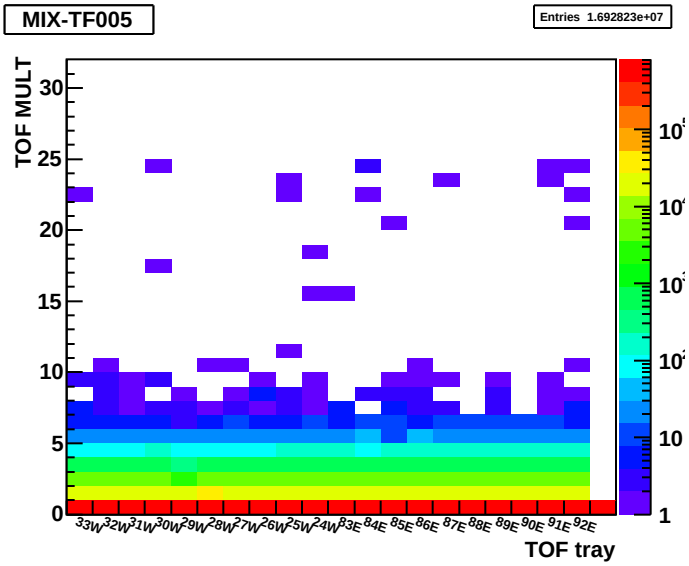

!Yellow-Fill
Entries 13015

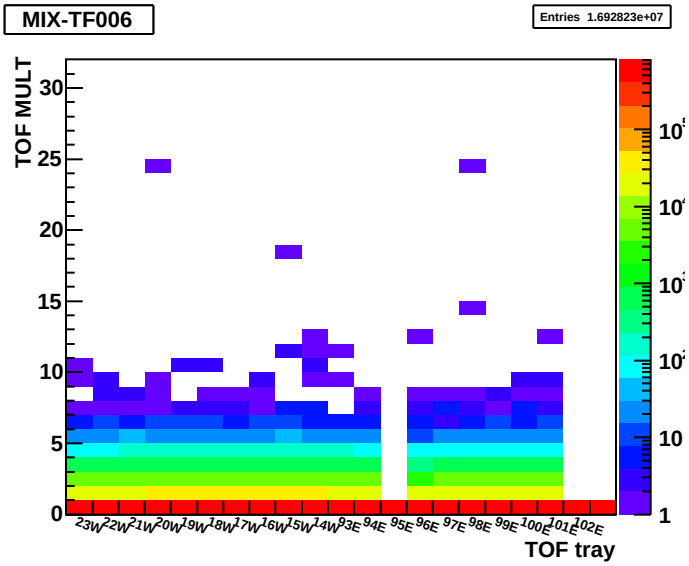

MIX-TF001
Entries 1.692823e+07
TOF MULT
TOF tray

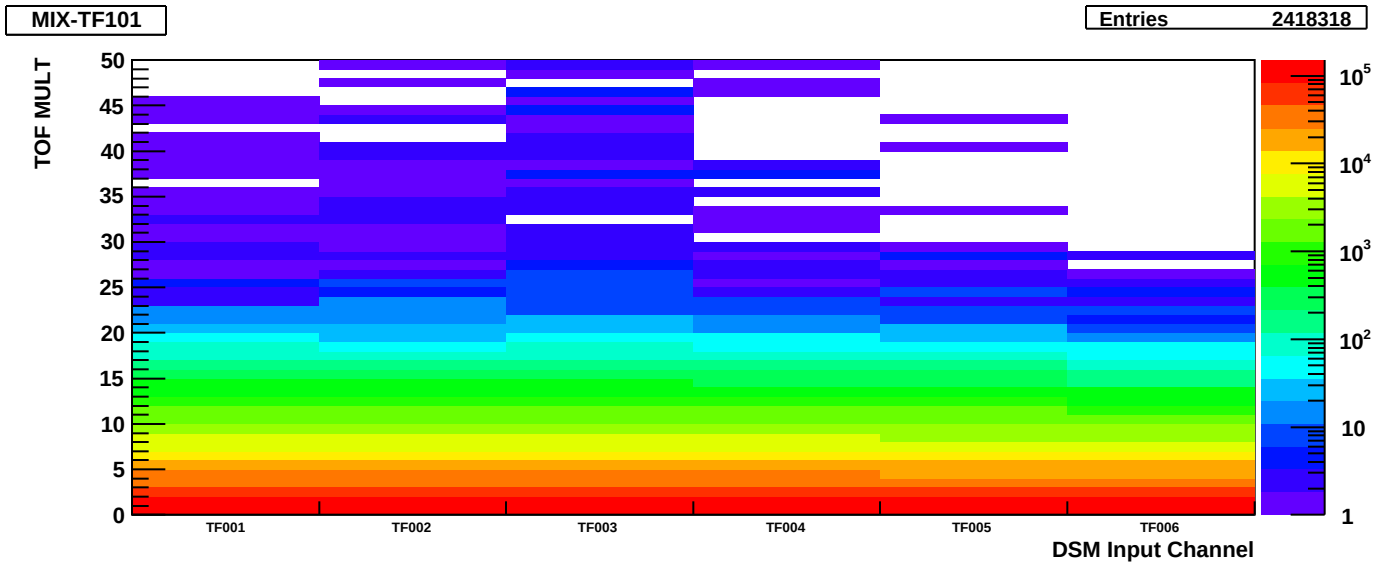

MIX-TF002
Entries 1.692823e+07
TOF MULT
TOF tray

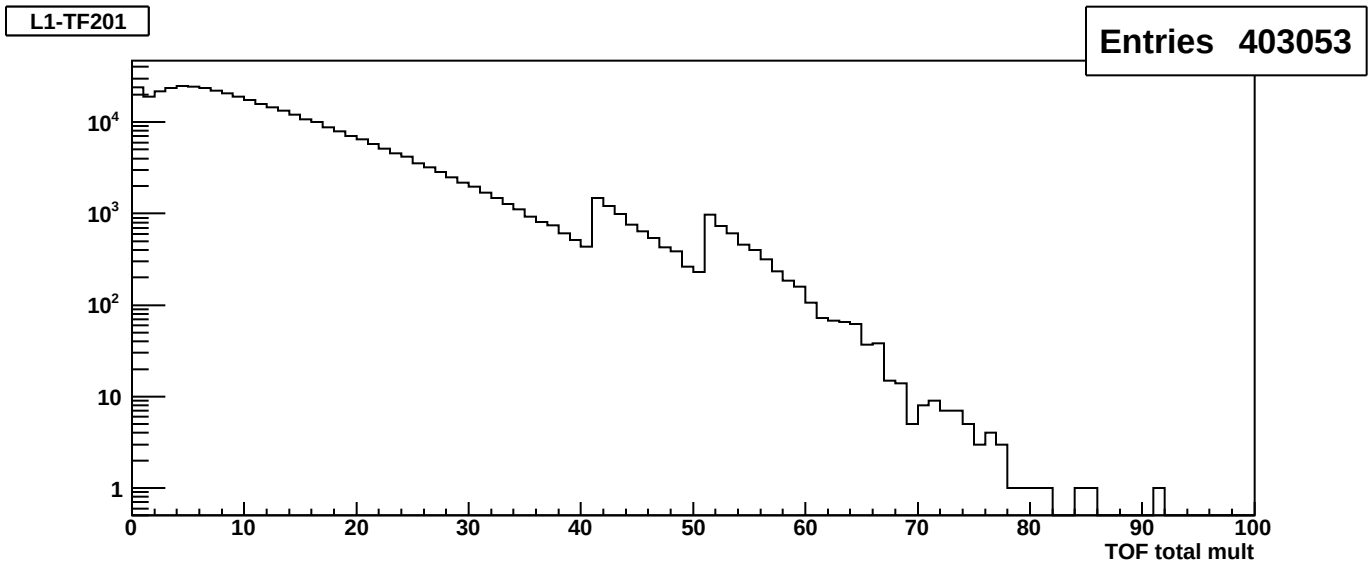

MIX-TF003
Entries 1.692823e+07
TOF MULT
TOF tray

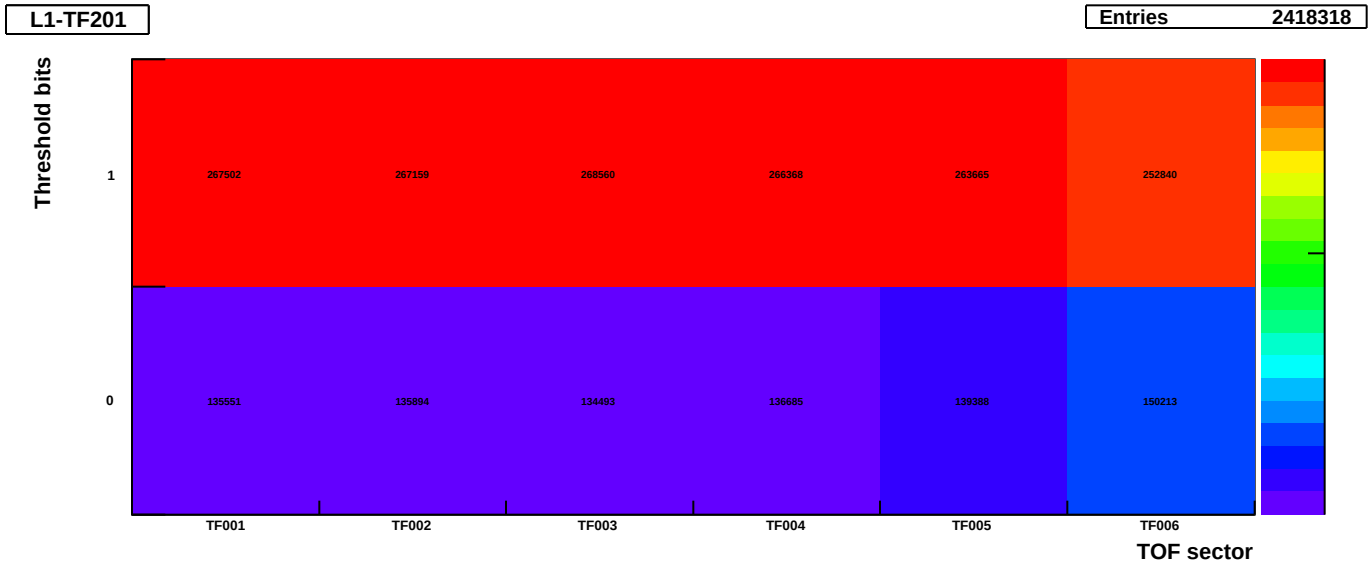

MIX-TF004
Entries 1.692823e+07
TOF MULT
TOF tray

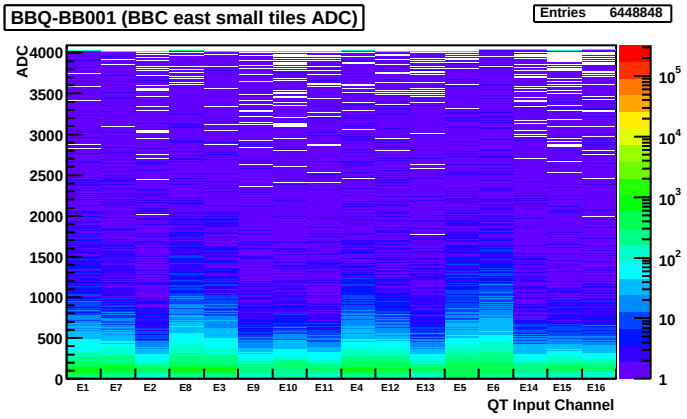

MIX-TF005
Entries 1.692823e+07
TOF MULT
TOF tray

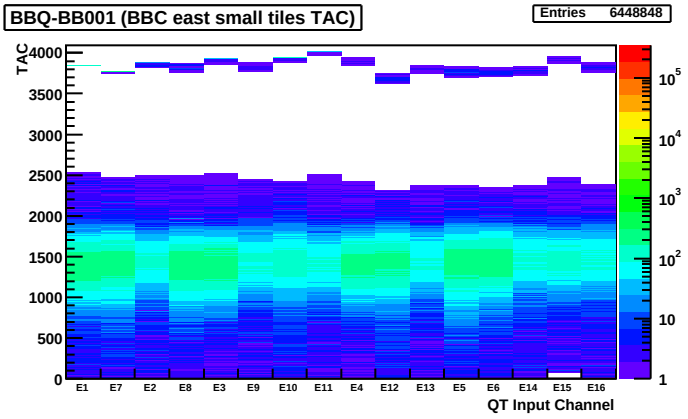

MIX-TF006
Entries 1.692823e+07
TOF MULT
TOF tray

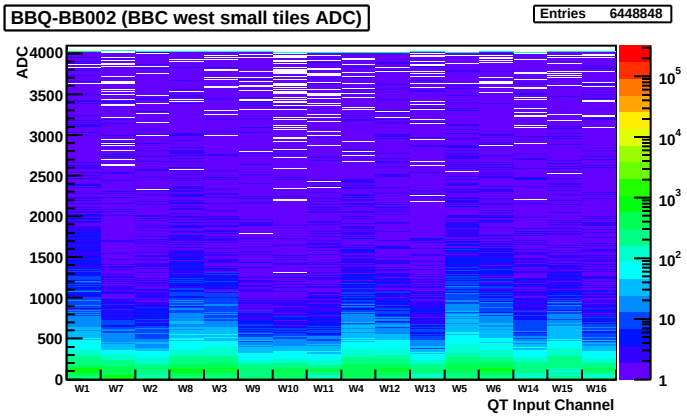

MIX-TF101
Entries 2418318
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

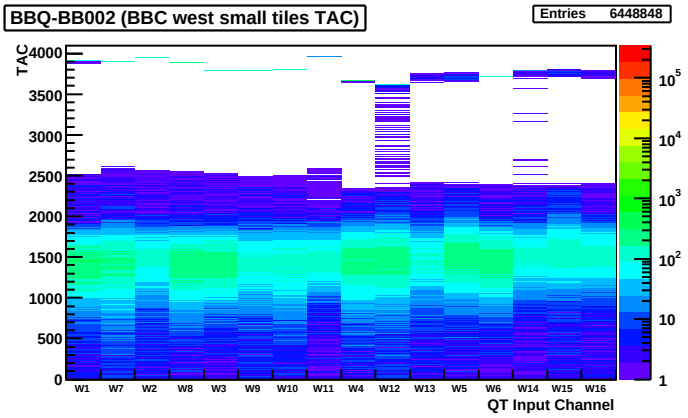

L1-TF201
Entries 403053
TOF total mult

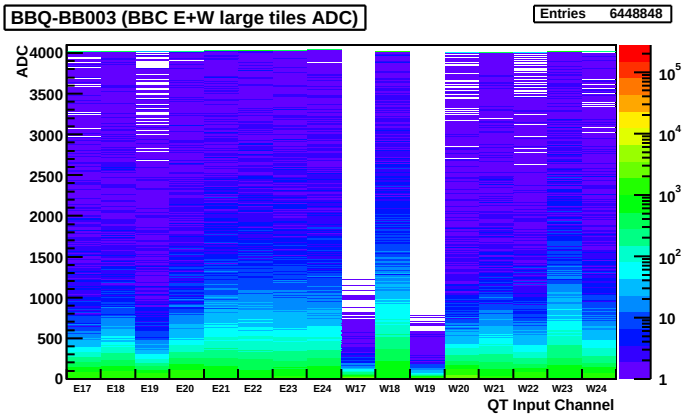

L1-TF201
Entries 2418318
Threshold bits
267502
267159
268560
266368
263665
252840
135551
135894
134493
136685
139388
150213
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

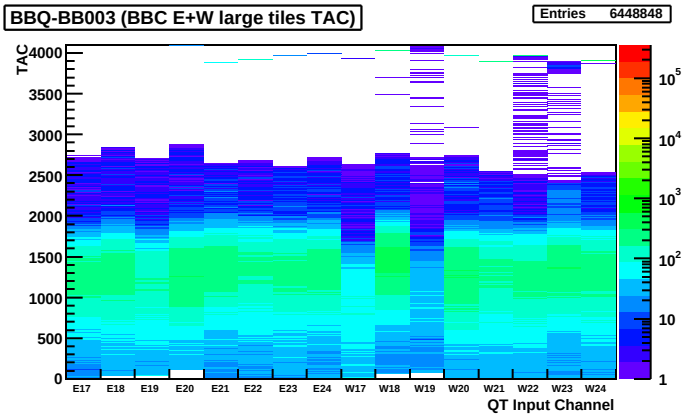

BBQ-BB001 (BBC east small tiles ADC)
Entries 6448848
ADC
QT Input Channel

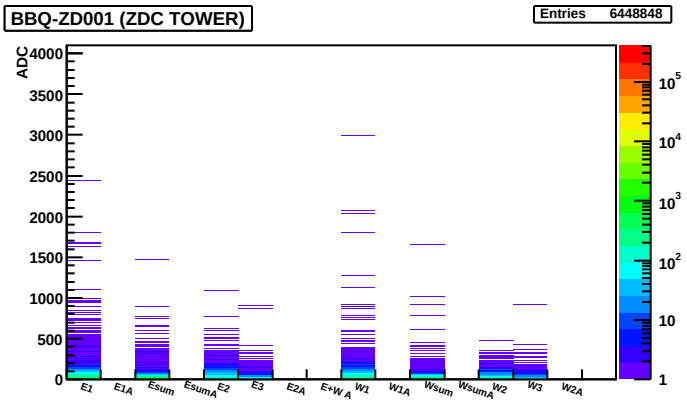

BBQ-BB001 (BBC east small tiles TAC)
Entries 6448848
TAC
QT Input Channel

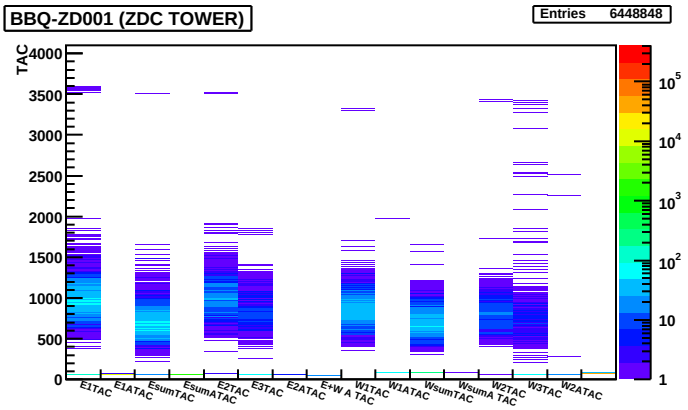

BBQ-BB002 (BBC west small tiles ADC)
Entries 6448848
ADC
QT Input Channel

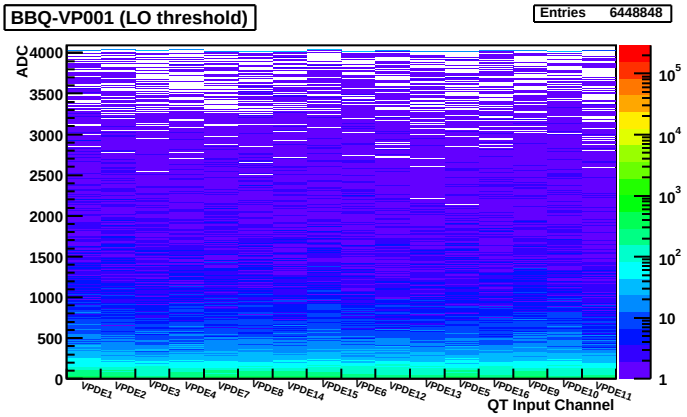

BBQ-BB002 (BBC west small tiles TAC)
Entries 6448848
TAC
QT Input Channel

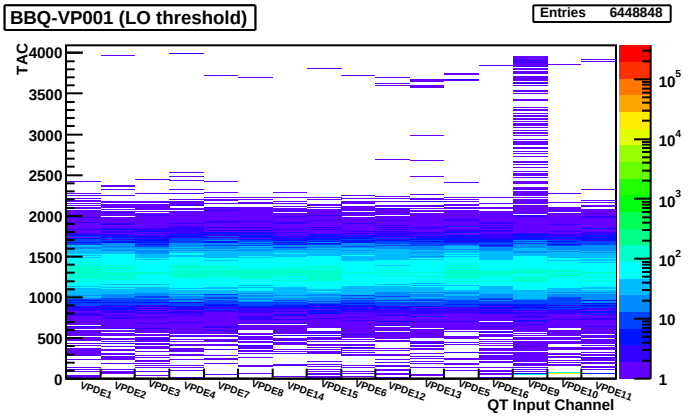

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6448848
ADC
QT Input Channel

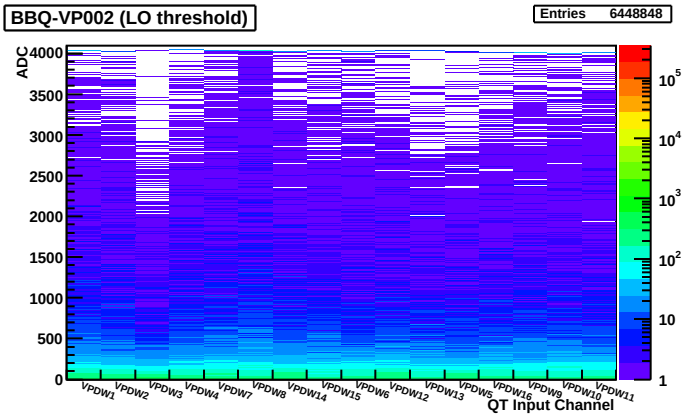

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6448848
TAC
QT Input Channel

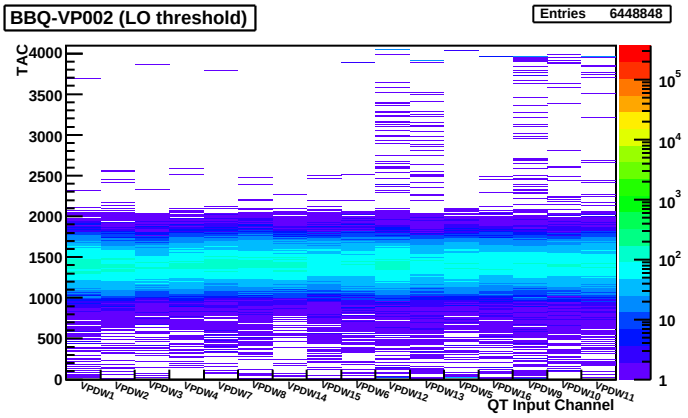

BBQ-ZD001 (ZDC TOWER)
Entries 6448848
ADC

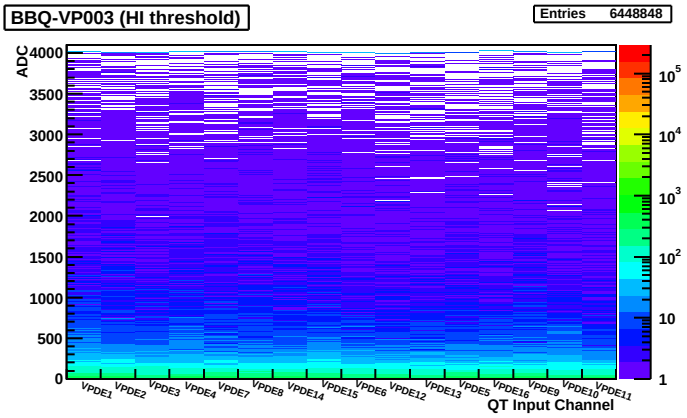

BBQ-ZD001 (ZDC TOWER)
Entries 6448848
TAC

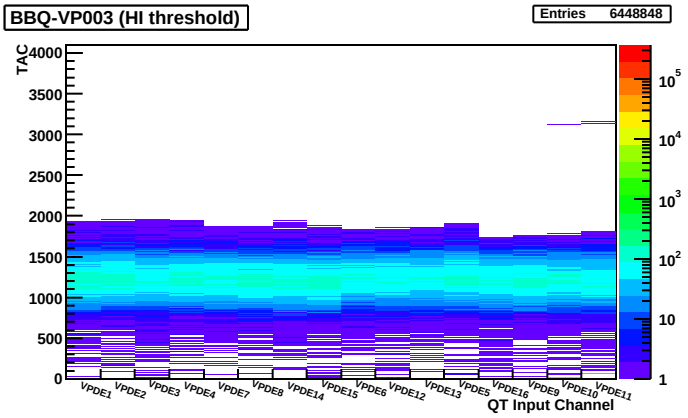

BBQ-VP001 (LO threshold)
Entries 6448848
ADC
QT Input Channel

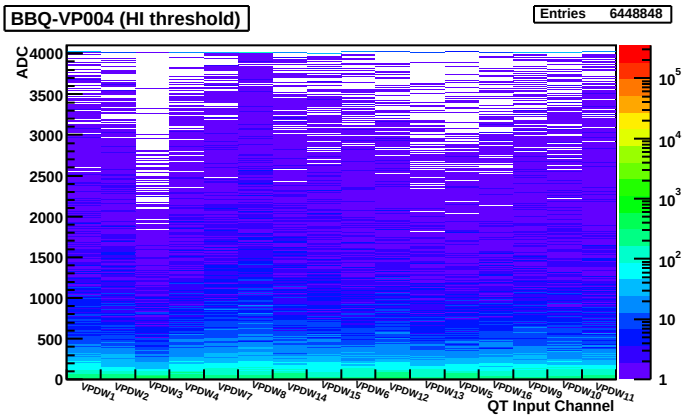

BBQ-VP001 (LO threshold)
Entries 6448848
TAC
QT Input Channel

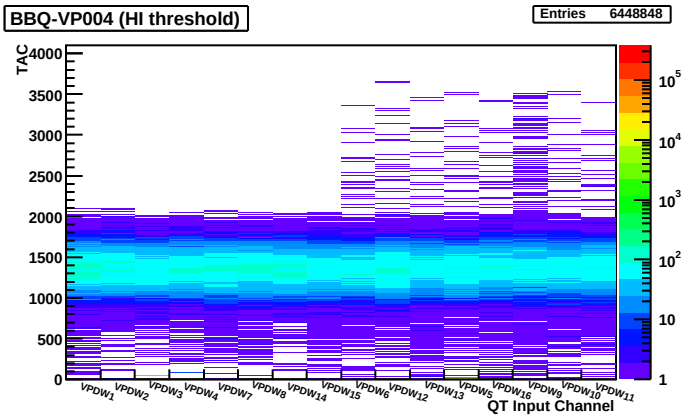

BBQ-VP002 (LO threshold)
Entries 6448848
ADC
QT Input Channel

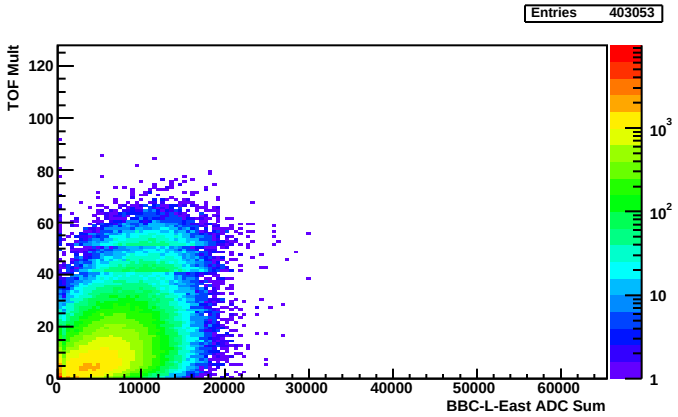

BBQ-VP002 (LO threshold)
Entries 6448848
TAC
QT Input Channel

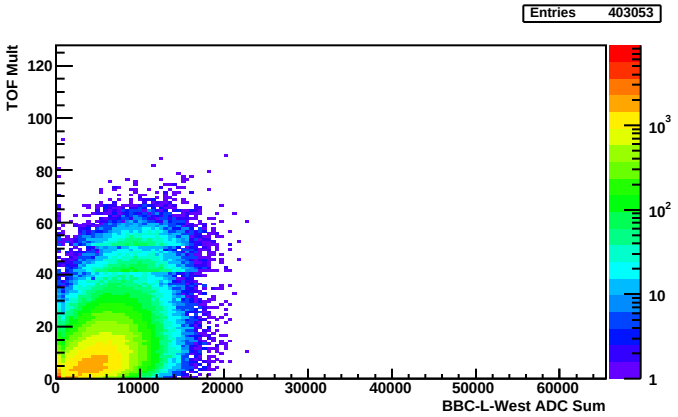

BBQ-VP003 (HI threshold)
Entries 6448848
ADC
QT Input Channel

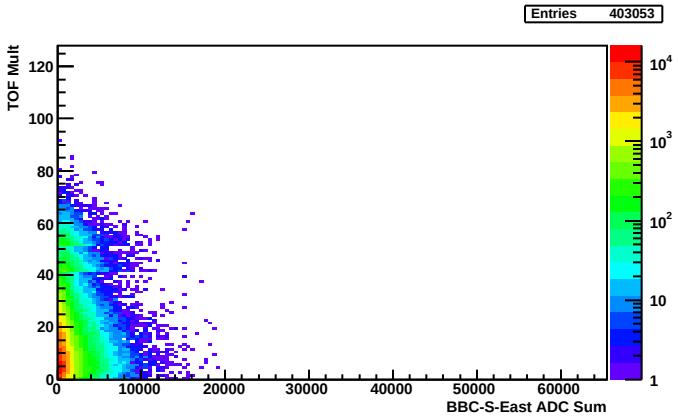

BBQ-VP003 (HI threshold)
Entries 6448848
TAC
QT Input Channel

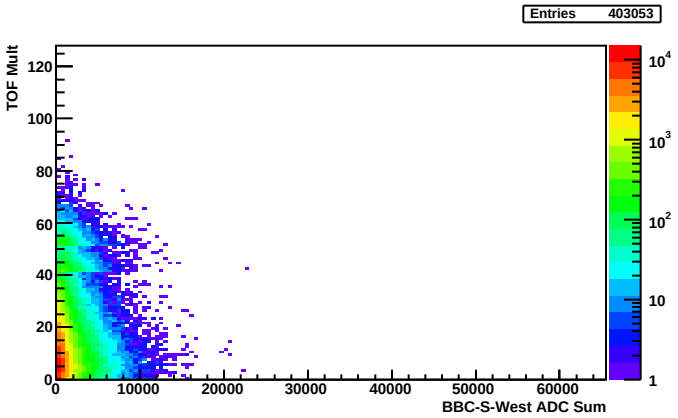

BBQ-VP004 (HI threshold)
Entries 6448848
ADC
QT Input Channel

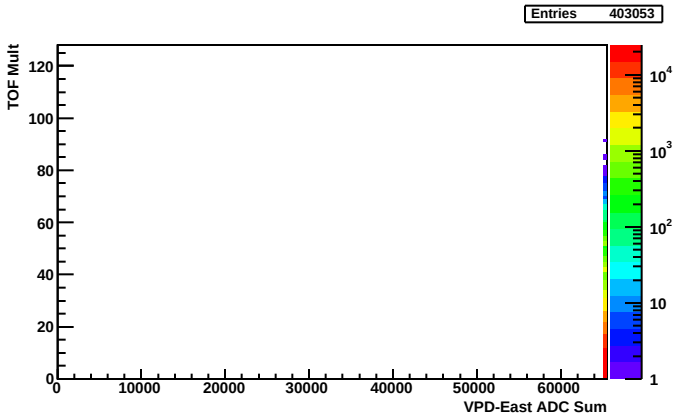

BBQ-VP004 (HI threshold)
Entries 6448848
TAC
QT Input Channel

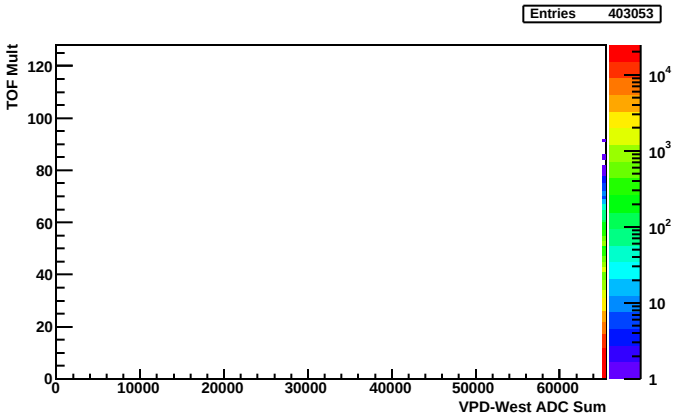

Entries 403053
TOF Mult
BBC-L-East ADC Sum

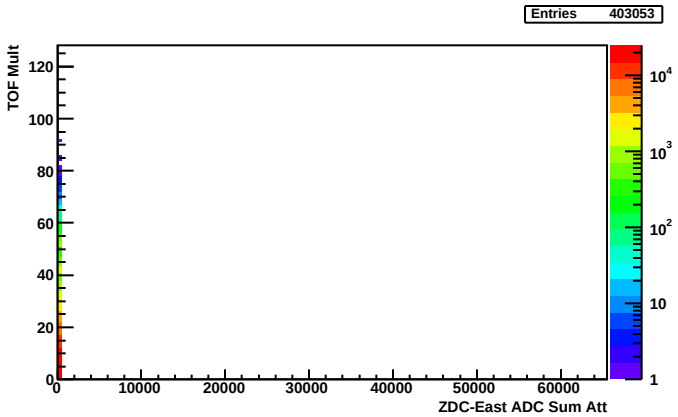

Entries 403053
TOF Mult
BBC-L-West ADC Sum

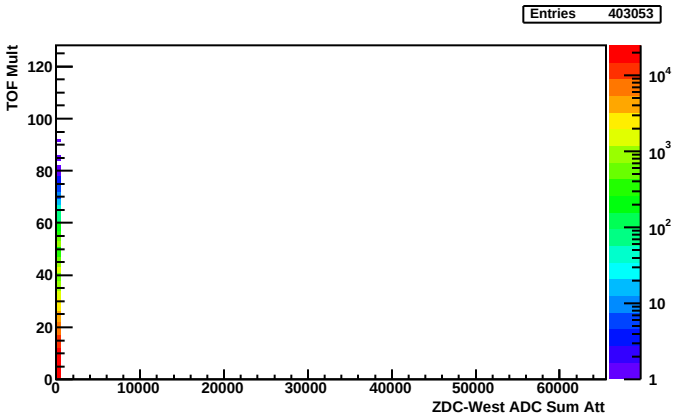

Entries 403053
TOF Mult
BBC-S-East ADC Sum

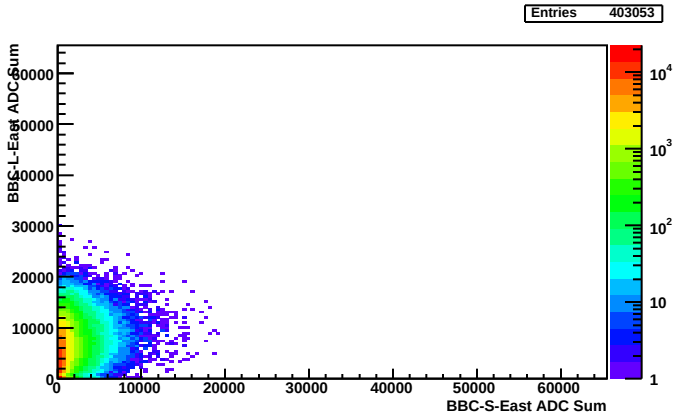

Entries 403053
TOF Mult
BBC-S-West ADC Sum

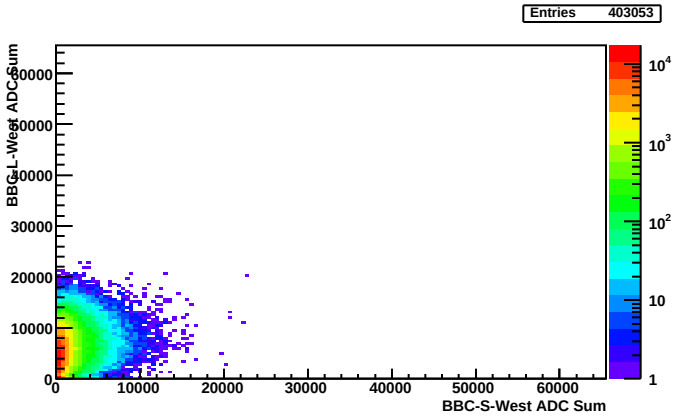

Entries 403053
TOF Mult
VPD-East ADC Sum

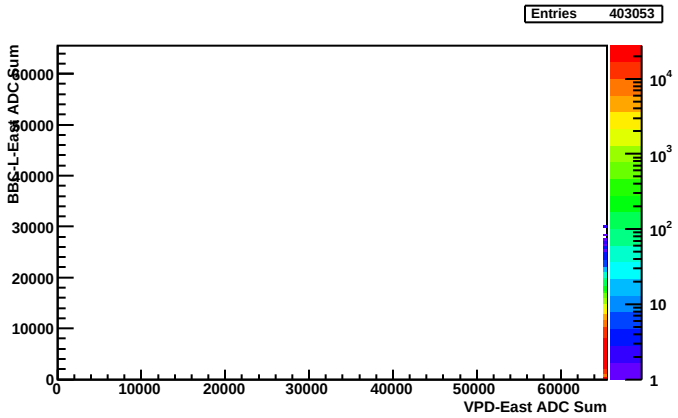

Entries 403053
TOF Mult
VPD-West ADC Sum

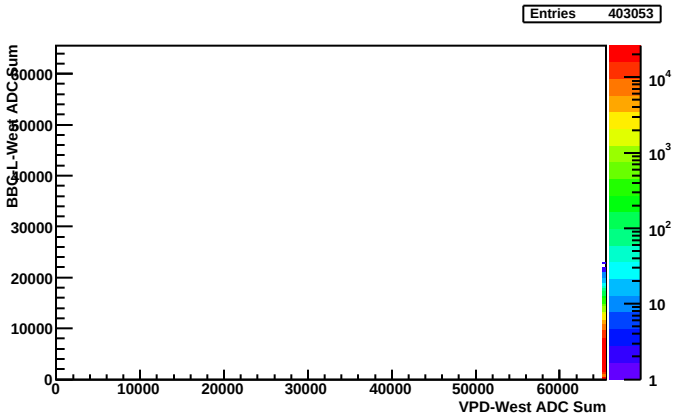

Entries 403053
TOF Mult
ZDC-East ADC Sum Att

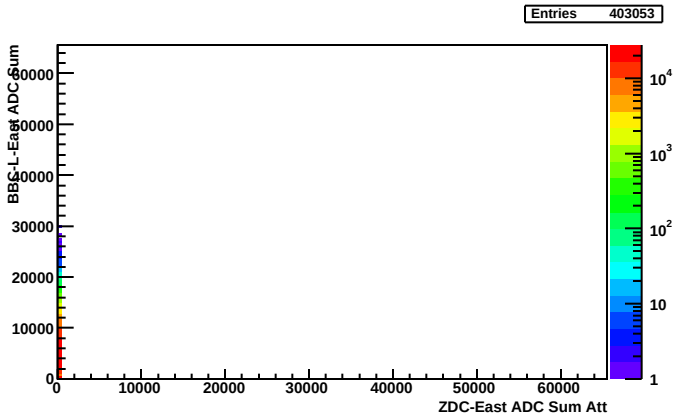

Entries 403053
TOF Mult
ZDC-West ADC Sum Att


Entries 403053
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 403053
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 403053
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 403053
BBC-L-West ADC Sum
VPD-West ADC Sum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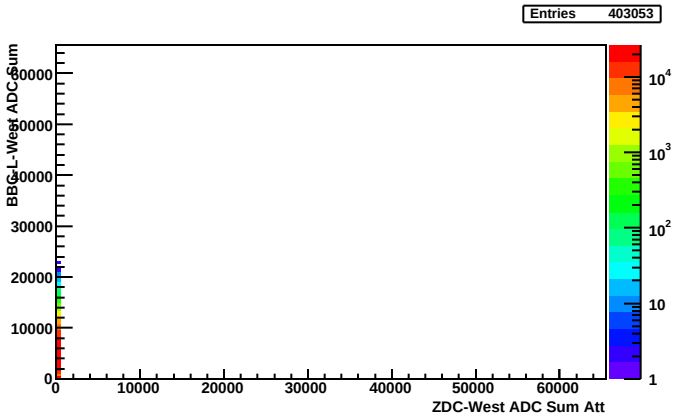
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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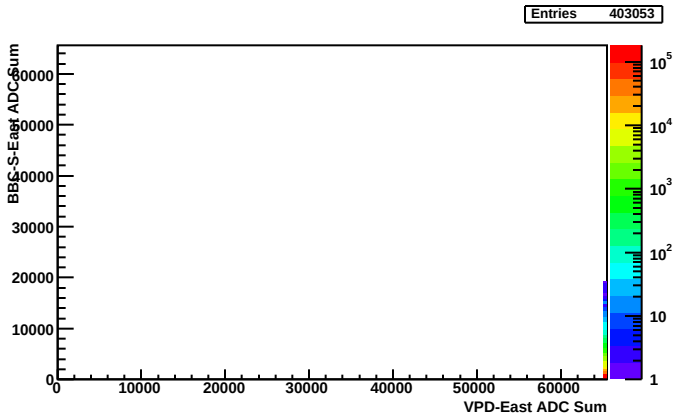
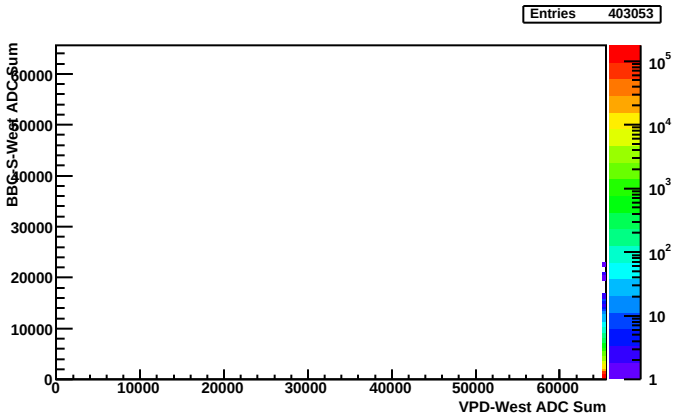
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 403053
BBC-S-East ADC Sum
VPD-East ADC Sum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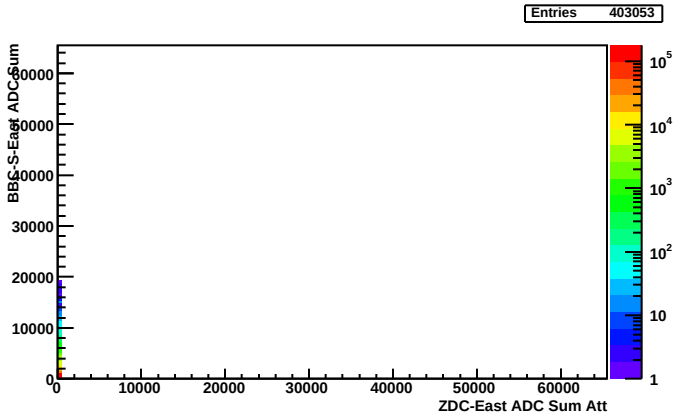
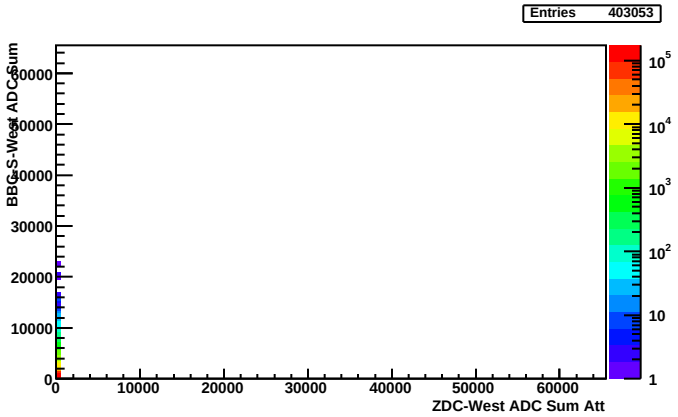
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 403053
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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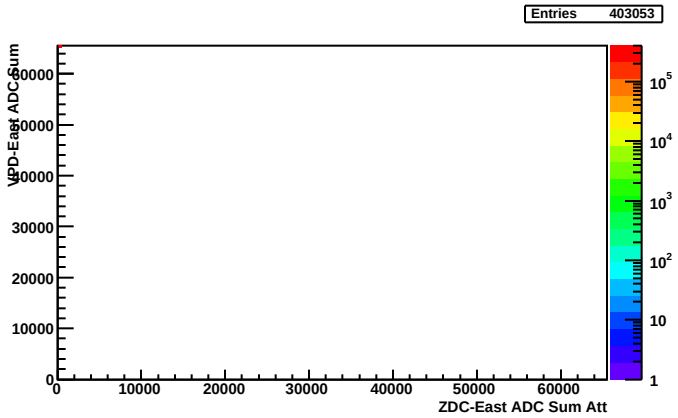
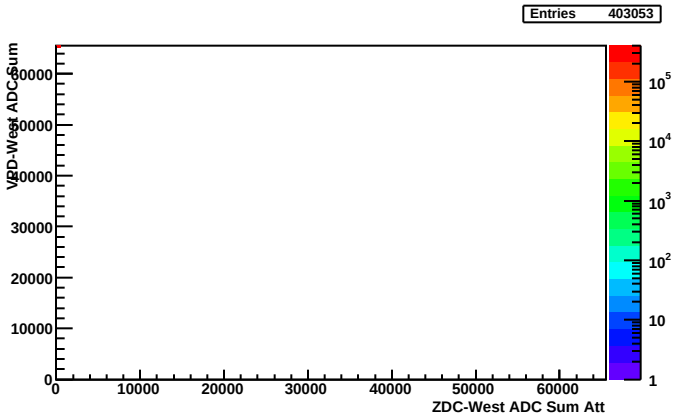
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 403053
VPD-East ADC Sum
ZDC-East ADC Sum Att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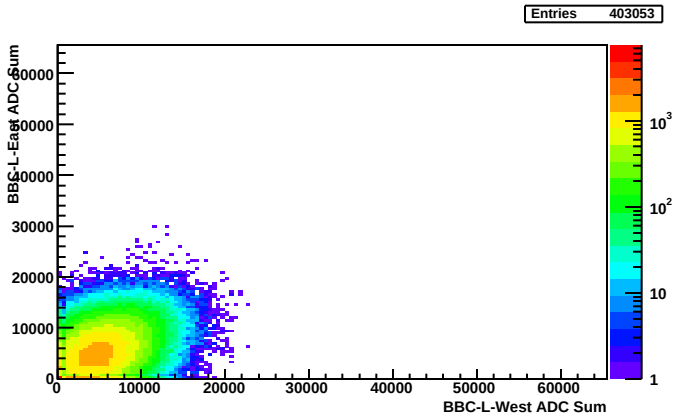
VPD-West ADC Sum
ZDC-West ADC Sum Att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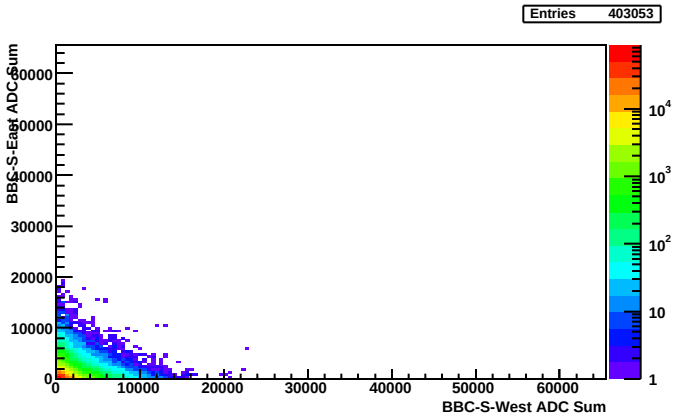
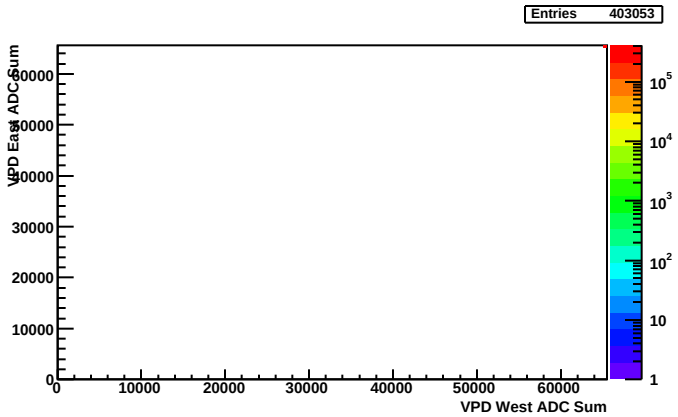
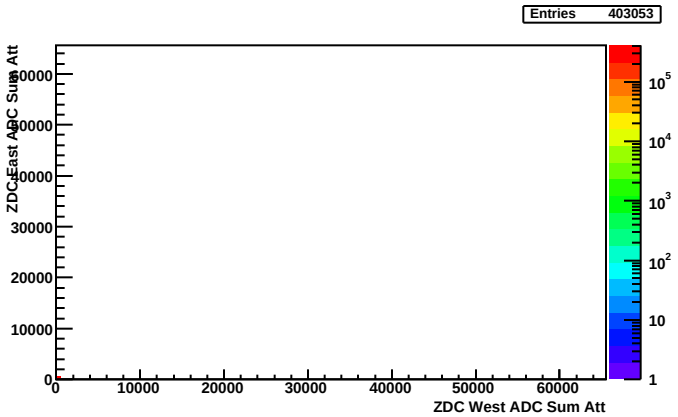
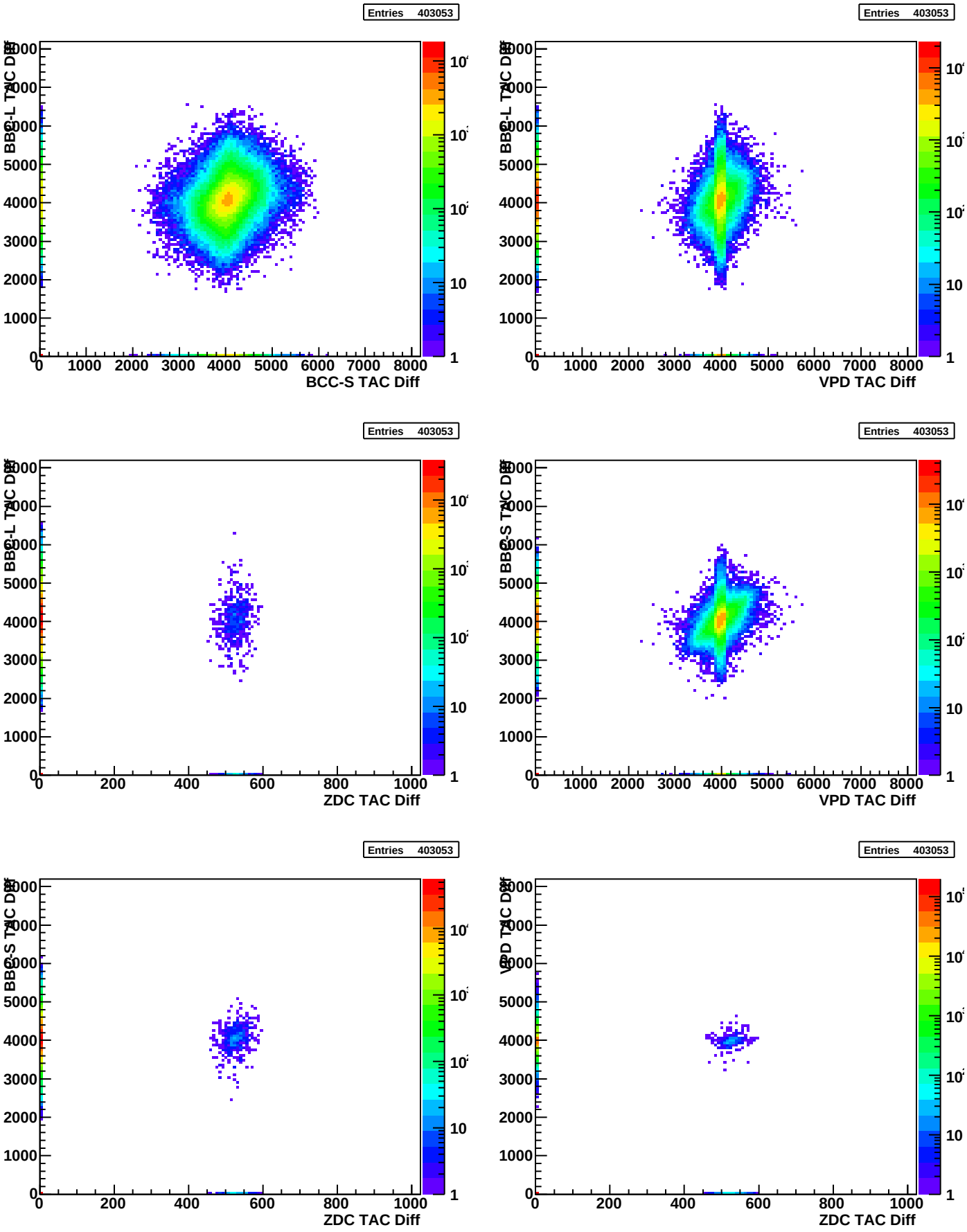
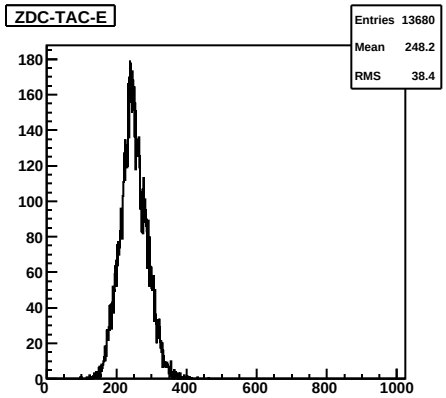
BBC-L-East ADC Sum
BBC-L-West ADC Sum

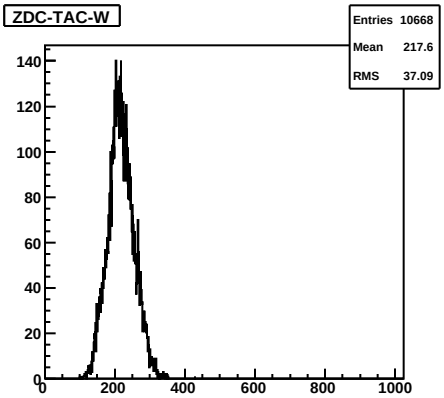

Entries 403053
BBC-S-East ADC Sum
BBC-S-West ADC Sum

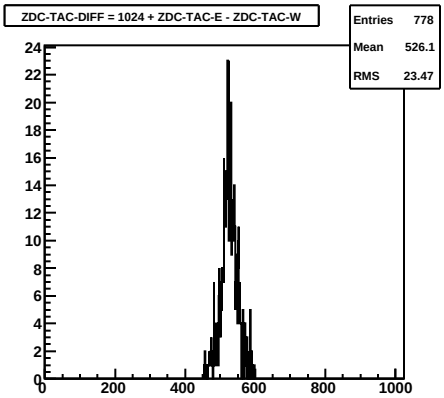

Entries 403053
VPD East ADC Sum
VPD West ADC Sum

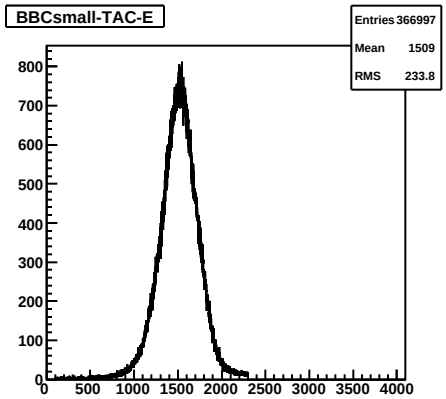

Entries 403053
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

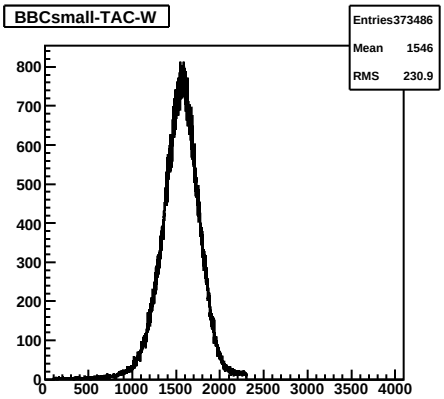

Entries 403053
BBC-L TAC Diff
BCC-S TAC Diff
Entries 403053
BBC-L TAC Diff
VPD TAC Diff
Entries 403053
BBC-L TAC Diff
ZDC TAC Diff
Entries 403053
BBC-S TAC Diff
VPD TAC Diff
Entries 403053
BBC-S TAC Diff
ZDC TAC Diff
Entries 403053
VPD TAC Diff
ZDC TAC Diff

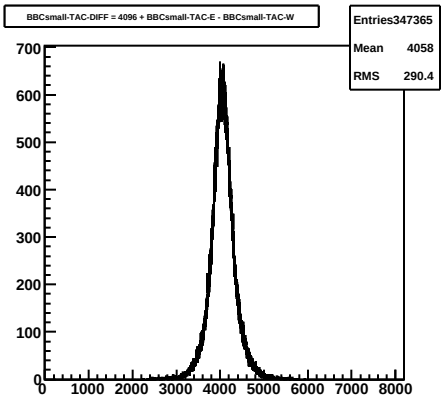

ZDC-TAC-E
Entries 13680
Mean 248.2
RMS 38.4

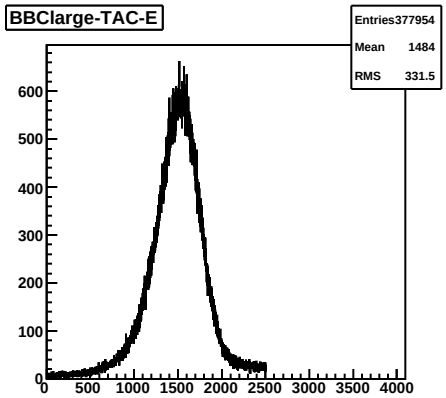

ZDC-TAC-W
Entries 10668
Mean 217.6
RMS 37.09

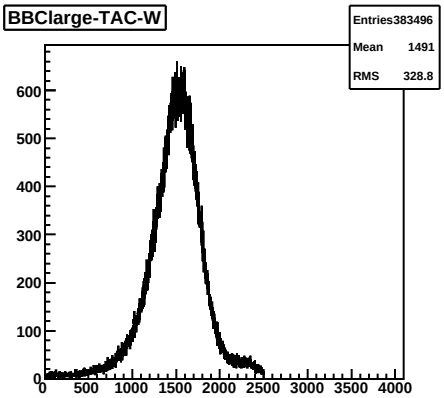

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 778
Mean 526.1
RMS 23.47

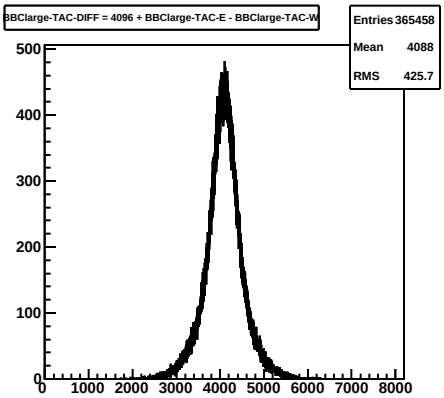

BBCsmall-TAC-E
Entries 366997
Mean 1509
RMS 233.8

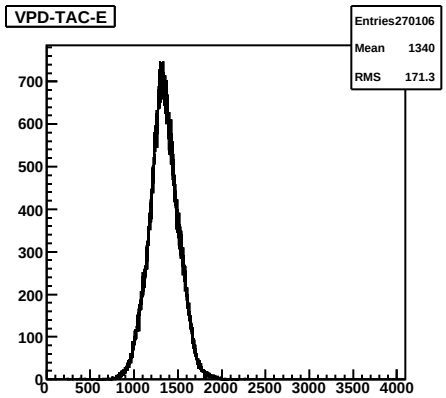

BBCsmall-TAC-W
Entries 373486
Mean 1546
RMS 230.9

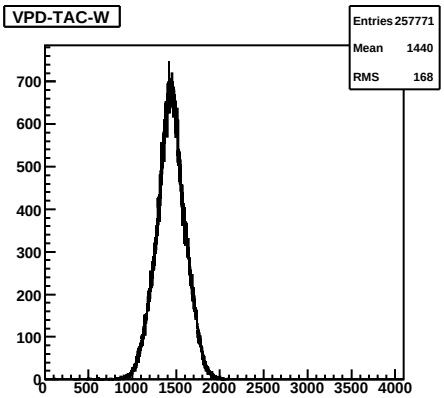

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 347365
Mean 4058
RMS 290.4

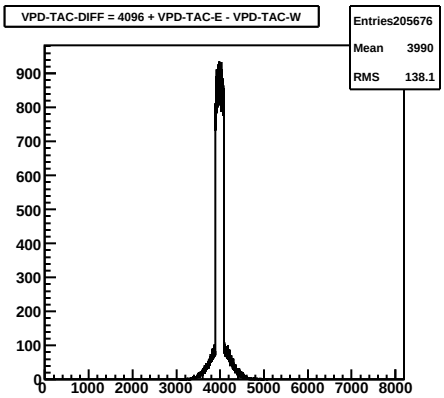

BBClarge-TAC-E
Entries 377954
Mean 1484
RMS 331.5

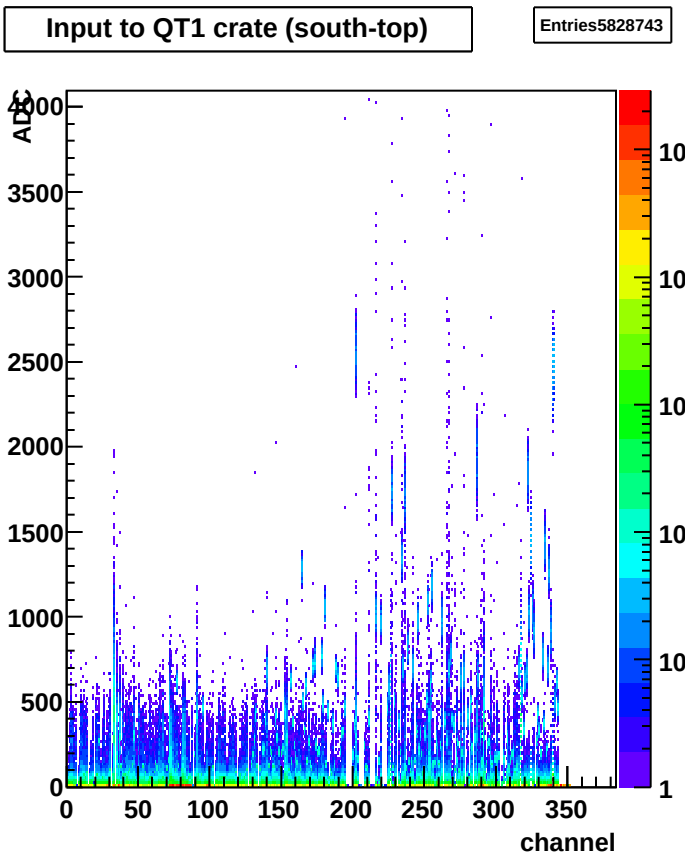

BBClarge-TAC-W
Entries 383496
Mean 1491
RMS 328.8

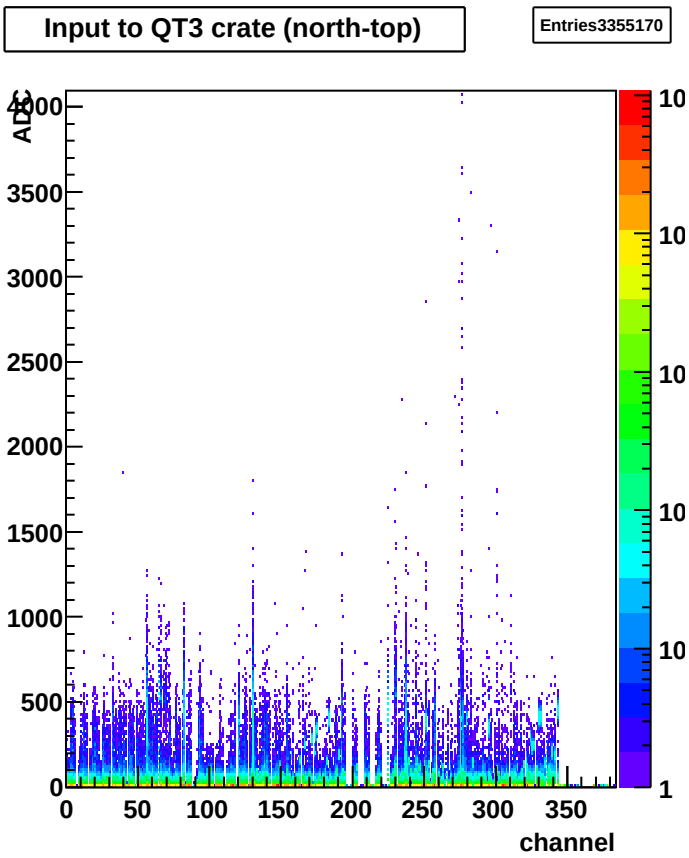

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 365458
Mean 4088
RMS 425.7

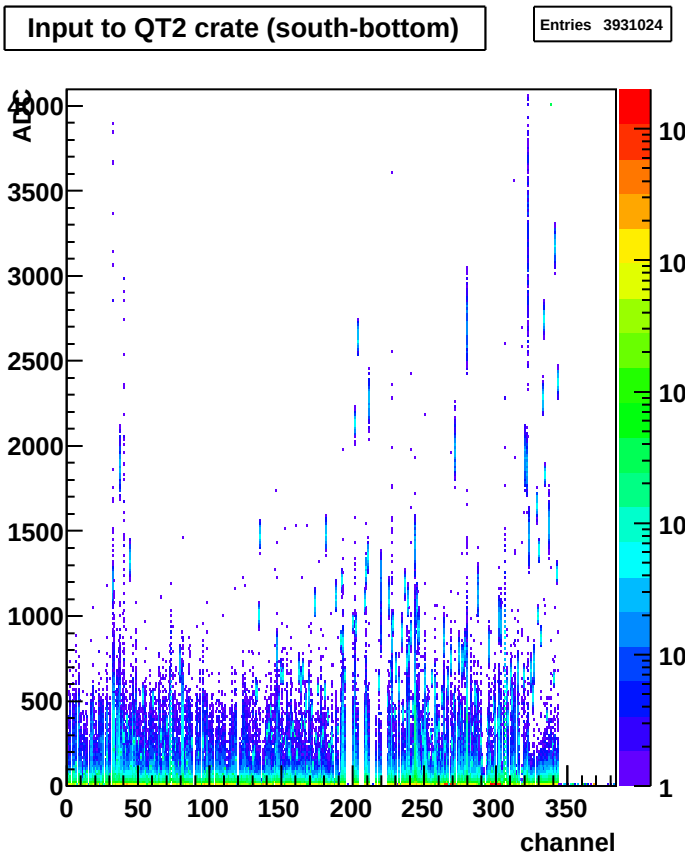

VPD-TAC-E
Entries 270106
Mean 1340
RMS 171.3

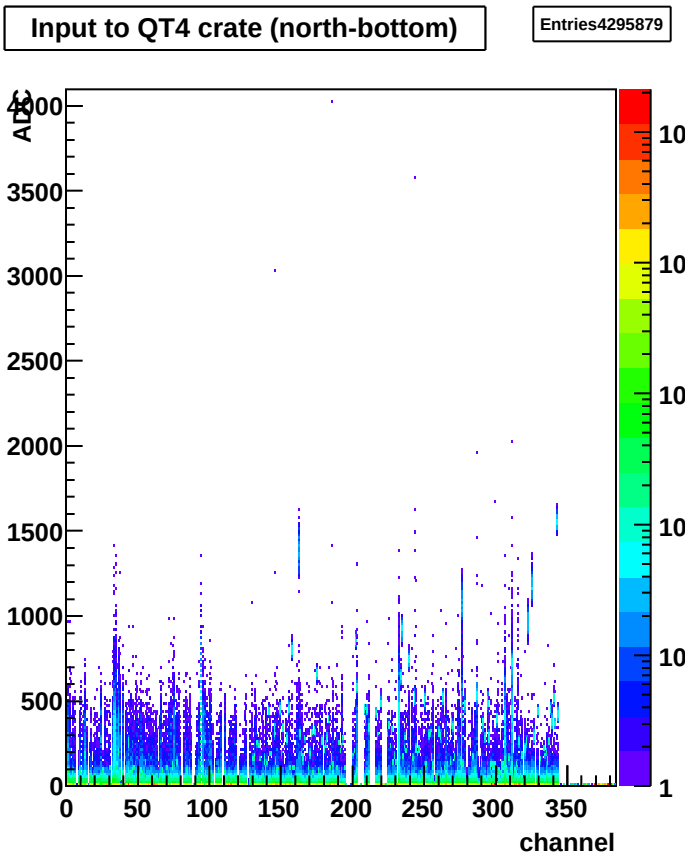

VPD-TAC-W
Entries 257771
Mean 1440
RMS 168

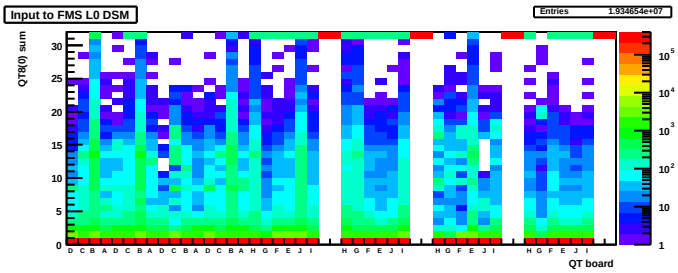

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 205676
Mean 3990
RMS 138.1

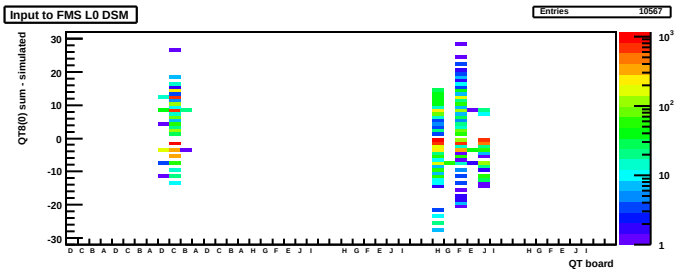

Input to QT1 crate (south-top)
Entries5828743
ADC
channel

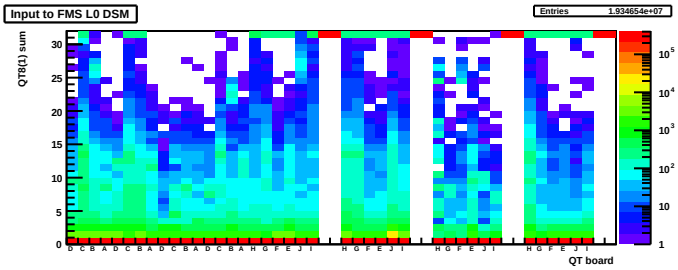

Input to QT3 crate (north-top)
Entries3355170
ADC
channel

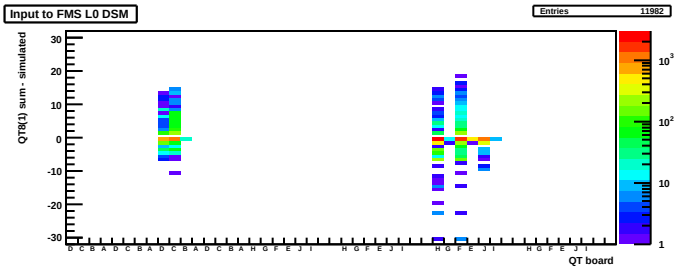

Input to QT2 crate (south-bottom)
Entries 3931024
ADC
channel

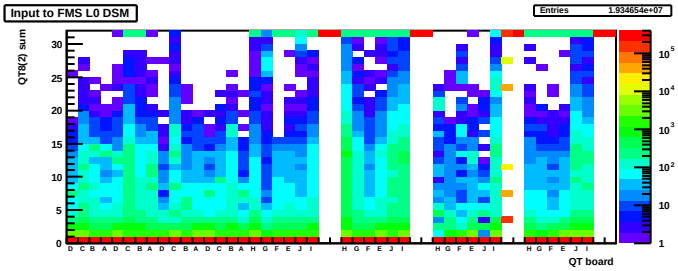

Input to QT4 crate (north-bottom)
Entries4295879
ADC
channel

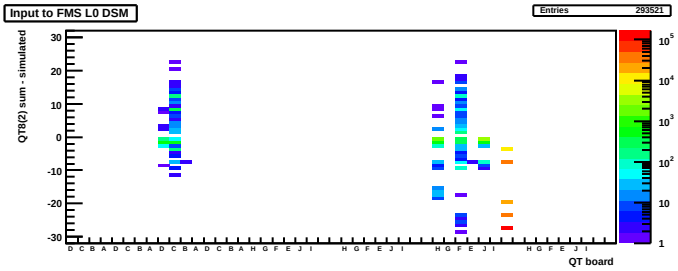

Input to FMS L0 DSM
Entries 1.934654e+07
QT8(0) sum
QT board

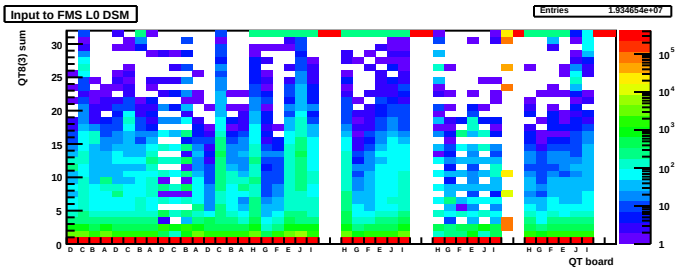

Input to FMS L0 DSM
Entries 10567
QT8(0) sum - simulated
QT board

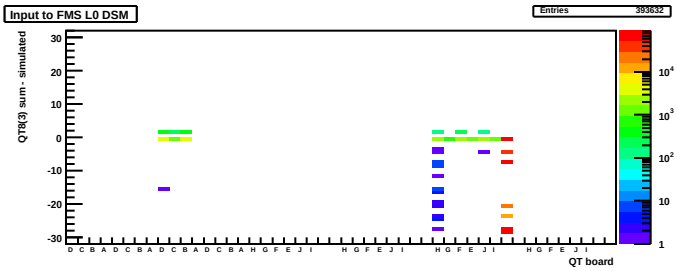

Input to FMS L0 DSM
Entries 1.934654e+07
QT8(1) sum
QT board

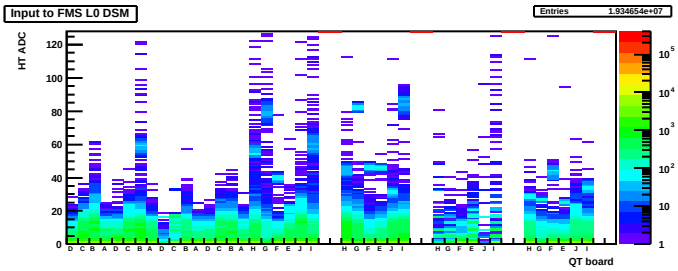

Input to FMS L0 DSM
Entries 11982
QT8(1) sum - simulated
QT board

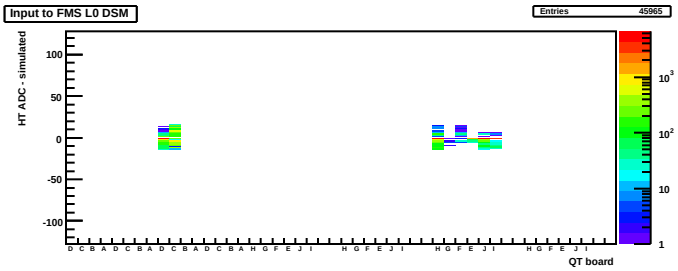

Input to FMS L0 DSM
Entries 1.934654e+07
QT8(2) sum
QT board

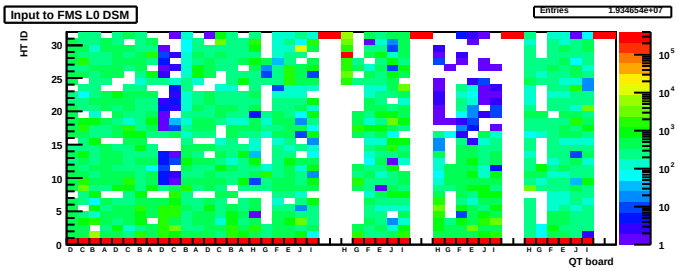

Input to FMS L0 DSM
Entries 293521
QT8(2) sum - simulated
QT board

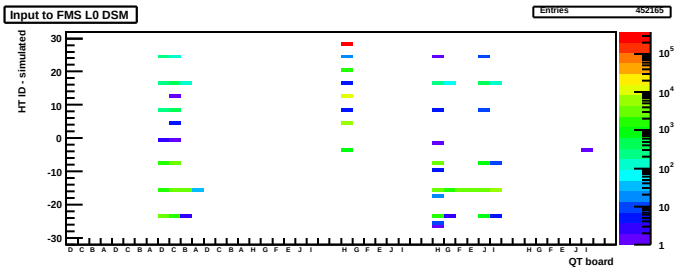

Input to FMS L0 DSM
Entries 1.934654e+07
QT8(3) sum
QT board

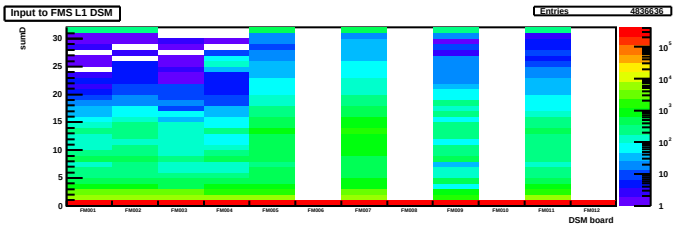

Input to FMS L0 DSM
Entries 393632
QT8(3) sum - simulated
QT board

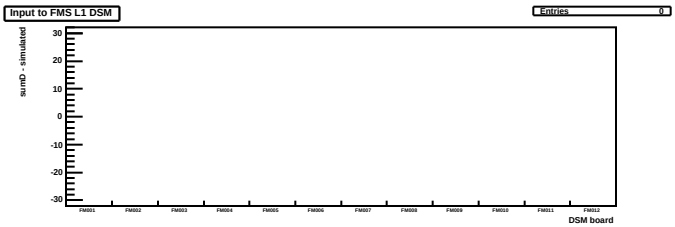

Input to FMS L0 DSM
Entries 1.934654e+07
HT ADC
QT board

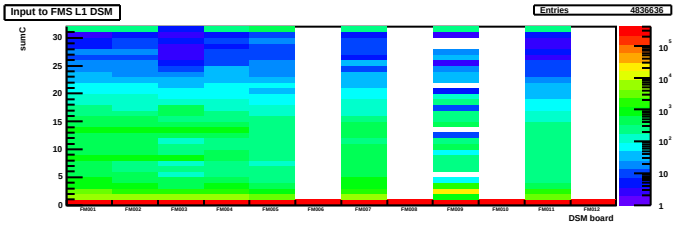

Input to FMS L0 DSM
Entries 45965
HT ADC - simulated
QT board

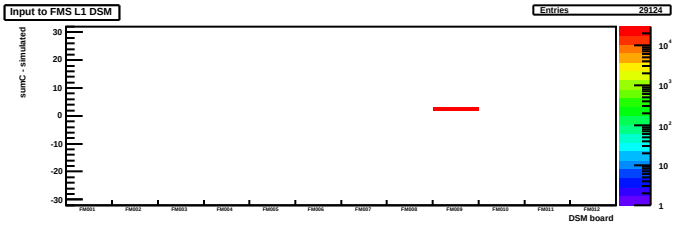

Input to FMS L0 DSM
Entries 1.934654e+07
HT ID
QT board

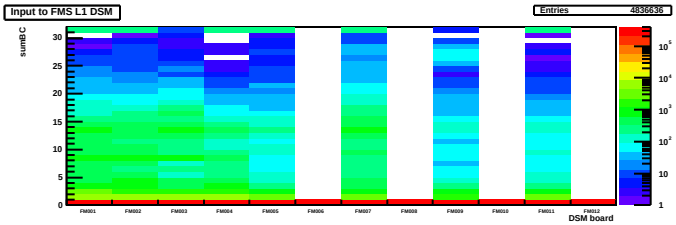

Input to FMS L0 DSM
Entries 452165
HT ID - simulated
QT board

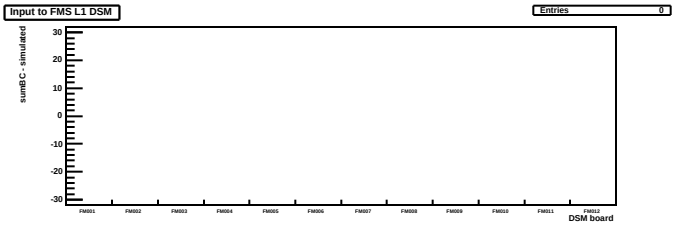

Input to FMS L1 DSM
Entries 4836636
sumD
DSM board

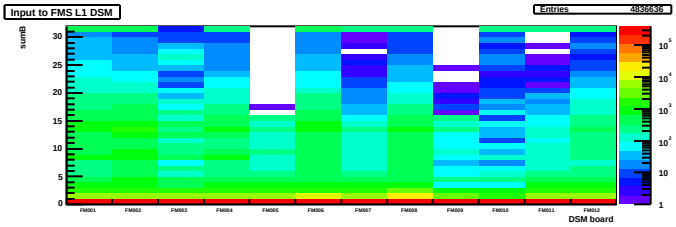

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

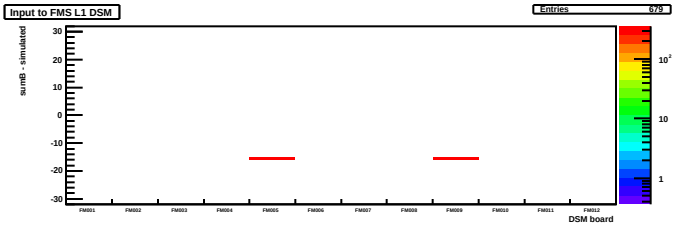

Input to FMS L1 DSM
Entries 4836636
sumC
DSM board

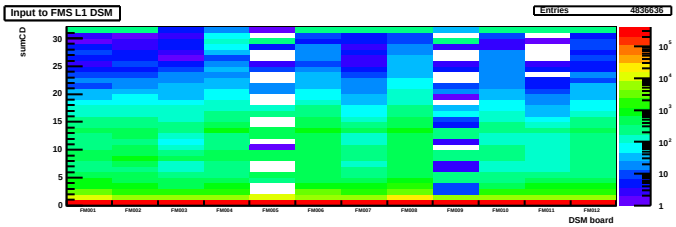

Input to FMS L1 DSM
Entries 29124
sumC - simulated
DSM board

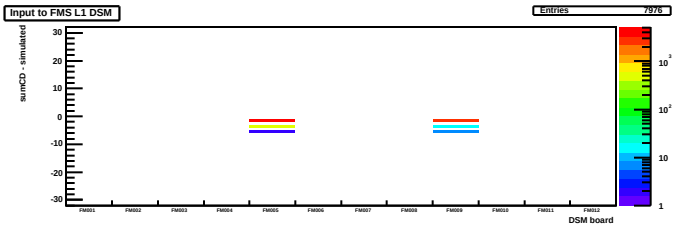

Input to FMS L1 DSM
Entries 4836636
sumBC
DSM board

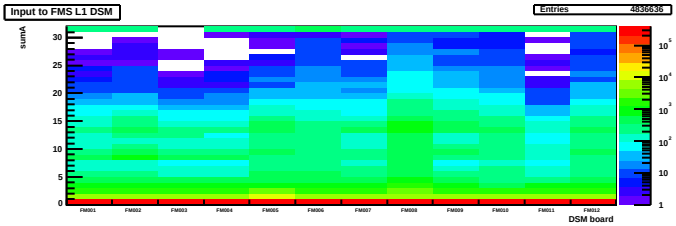

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

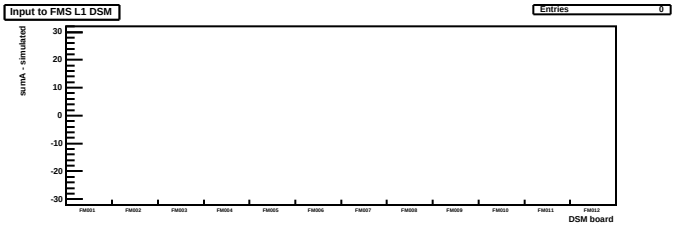

Input to FMS L1 DSM
Entries 4836636
sumB
DSM board

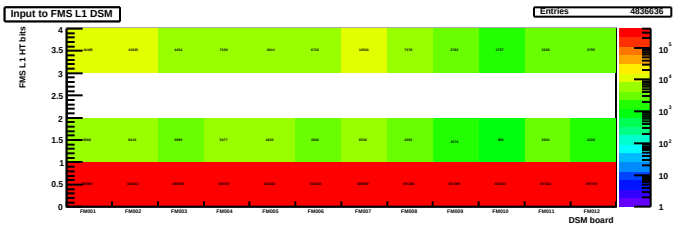

Input to FMS L1 DSM
Entries 679
sumB - simulated
DSM board

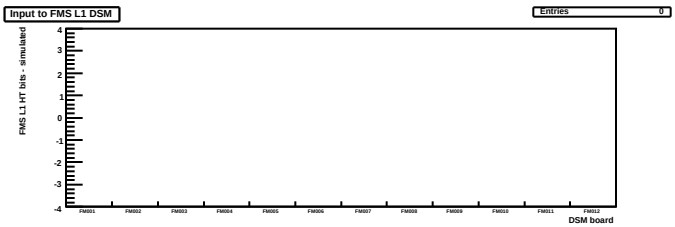

Input to FMS L1 DSM
Entries 4836636
sumCD
DSM board

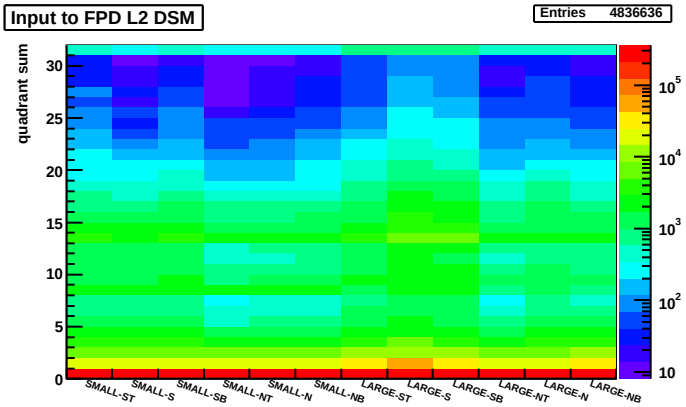

Input to FMS L1 DSM
Entries 7976
sumCD - simulated
DSM board

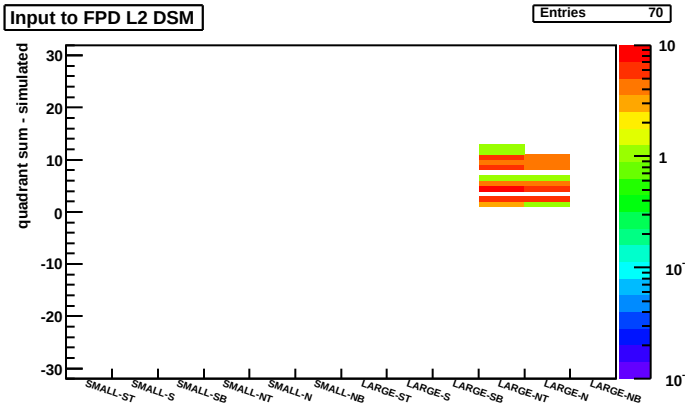

Input to FMS L1 DSM
Entries 4836636
sumA
DSM board

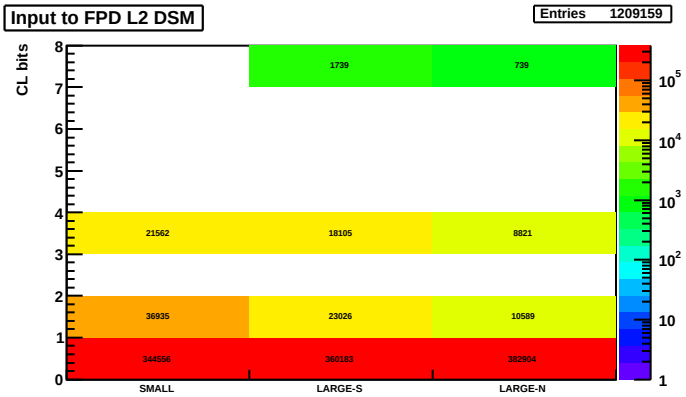

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

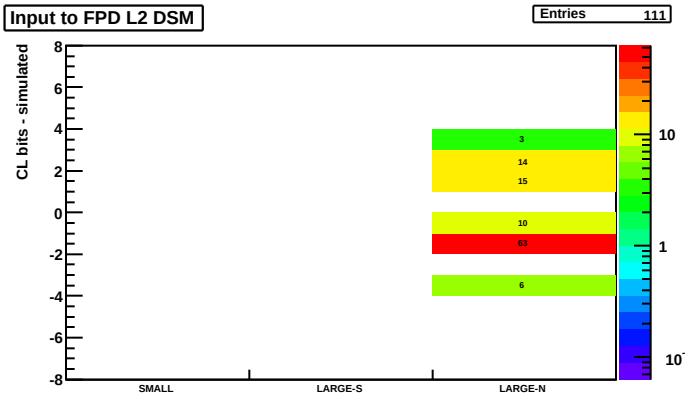

Input to FMS L1 DSM
Entries 4836636
FMS L1 HT bits
DSM board

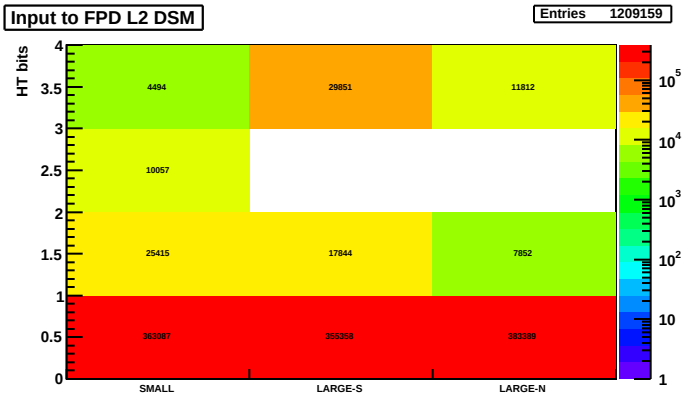

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

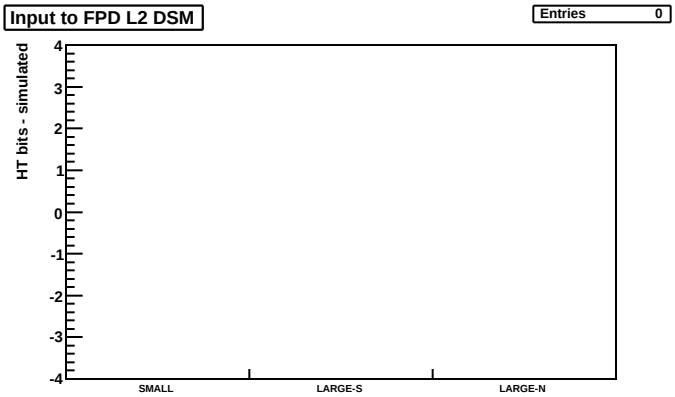

Input to FPD L2 DSM
Entries 4836636
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

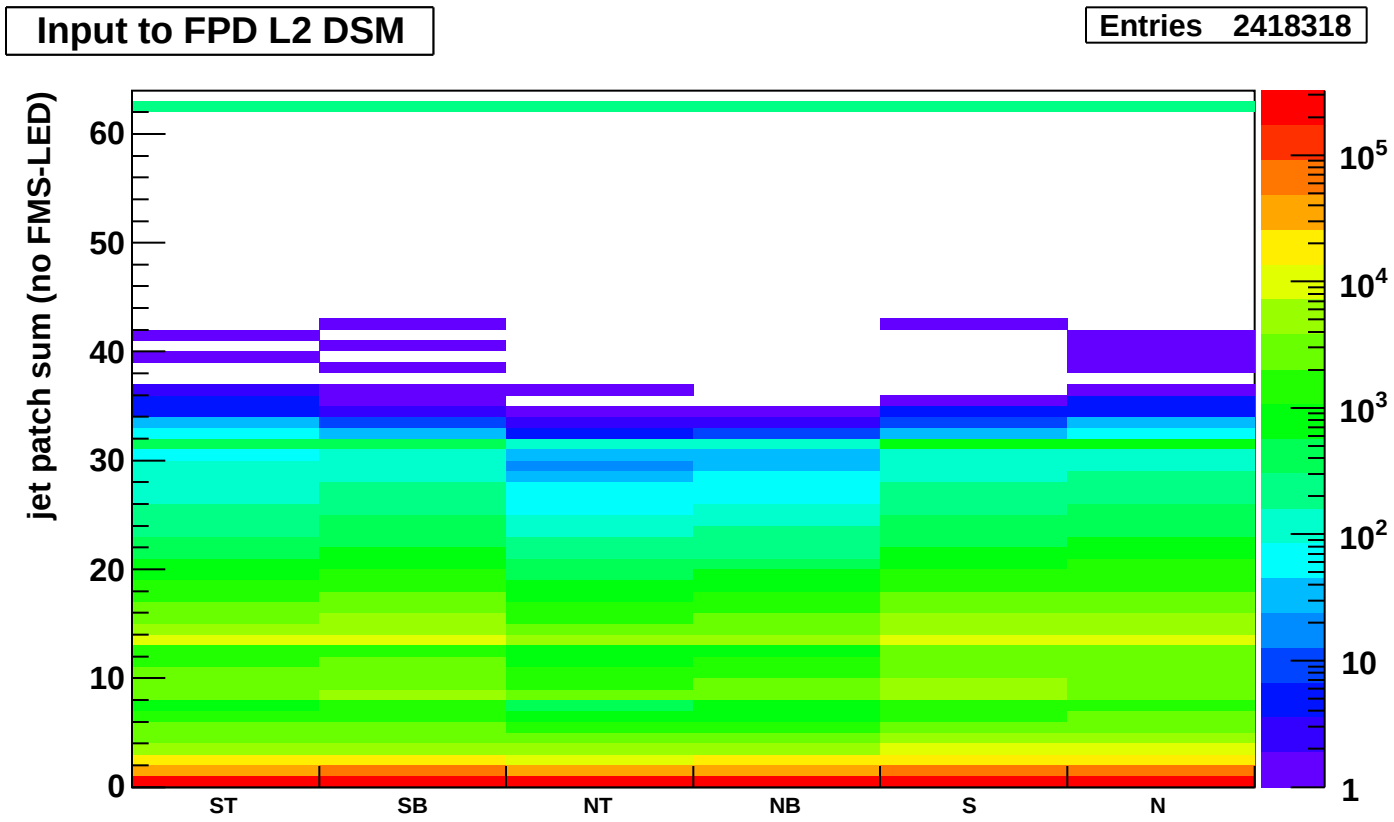

Input to FPD L2 DSM
Entries 70
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

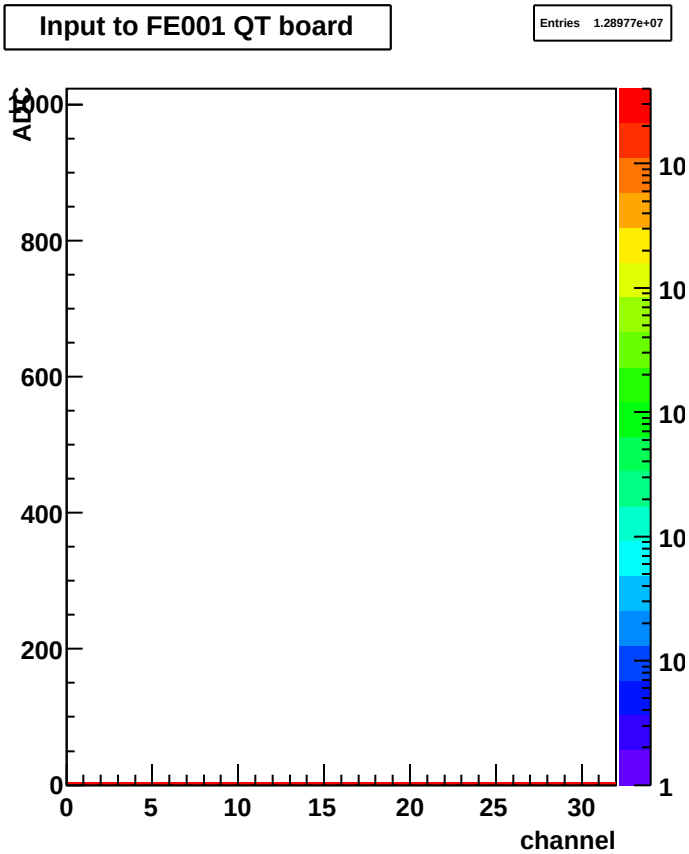

Input to FPD L2 DSM
Entries 1209159
CL bits
1739
739
21562
18105
8821
36935
23026
10589
344556
360183
382904
SMALL
LARGE-S
LARGE-N

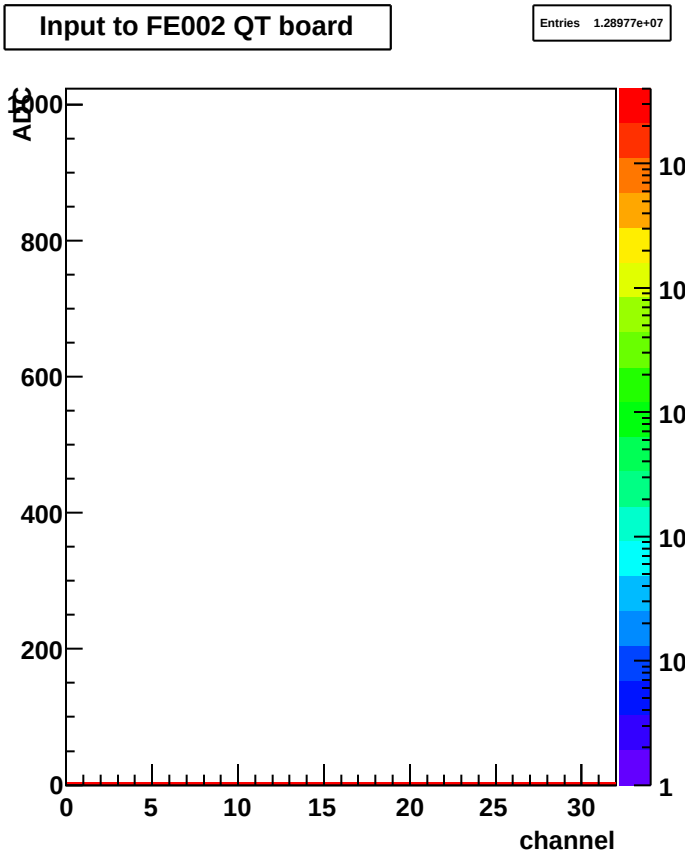

Input to FPD L2 DSM
Entries 111
CL bits - simulated
3
14
15
10
63
6
SMALL
LARGE-S
LARGE-N

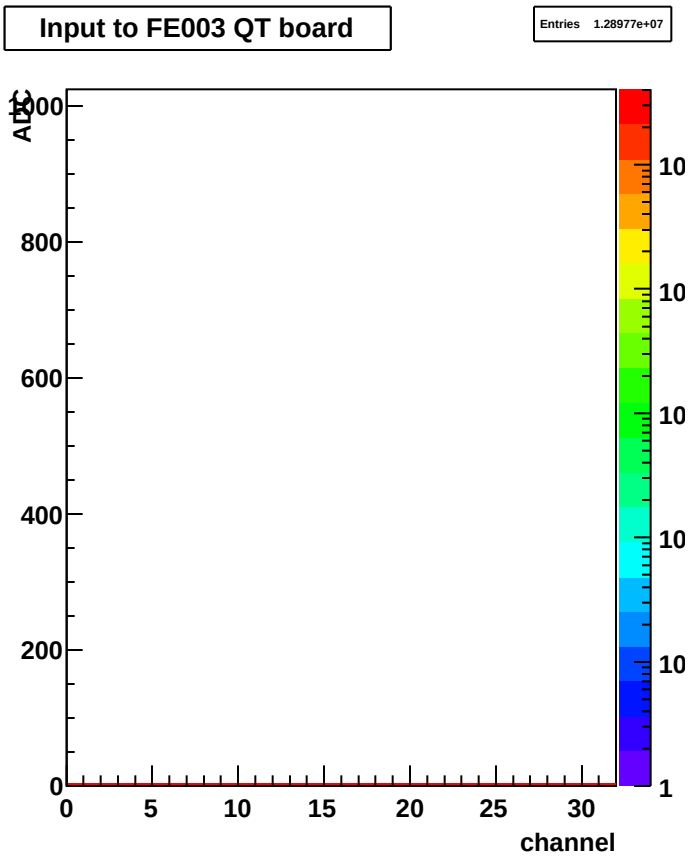

Input to FPD L2 DSM
Entries 1209159
HT bits
4494
29851
11812
10057
25415
17844
7852
363087
355358
383389
SMALL
LARGE-S
LARGE-N

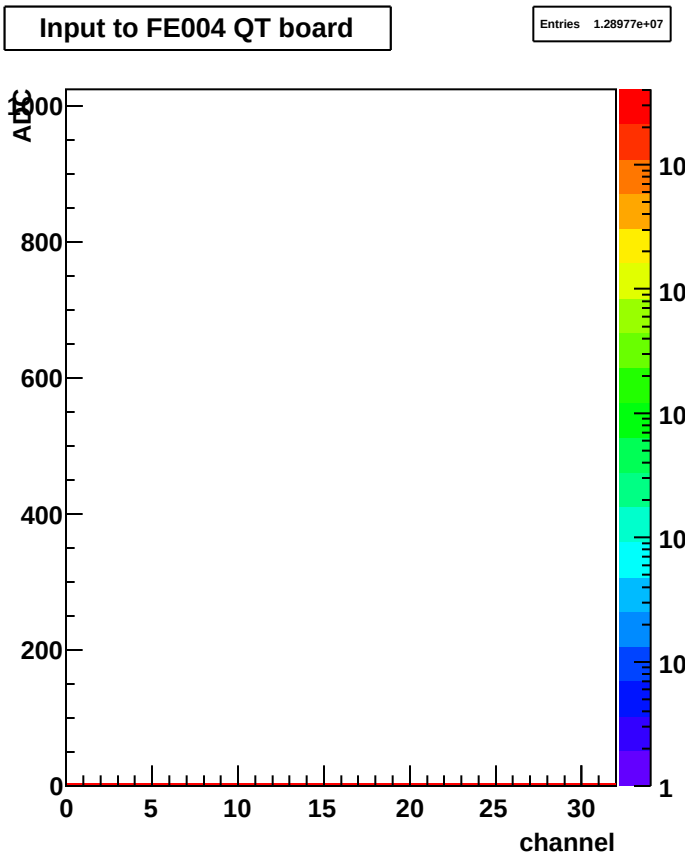

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

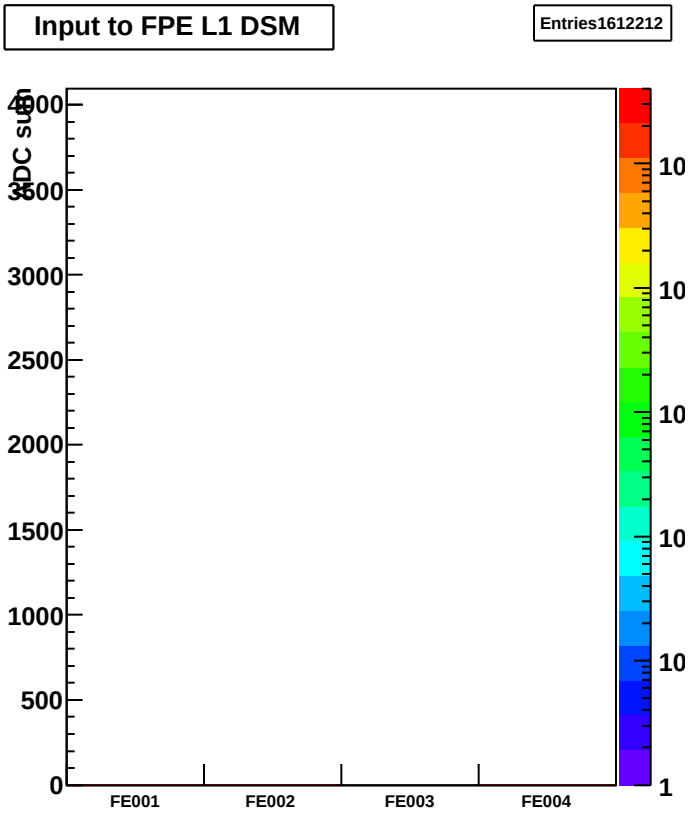

Input to FPD L2 DSM
Entries 2418318
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

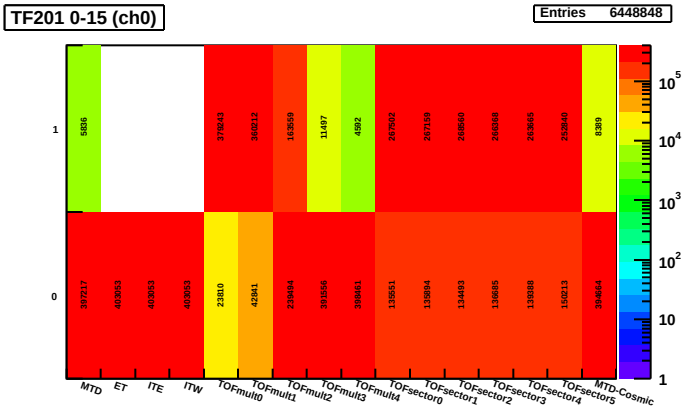

Input to FE001 QT board
Entries 1.28977e+07
ADC
channel

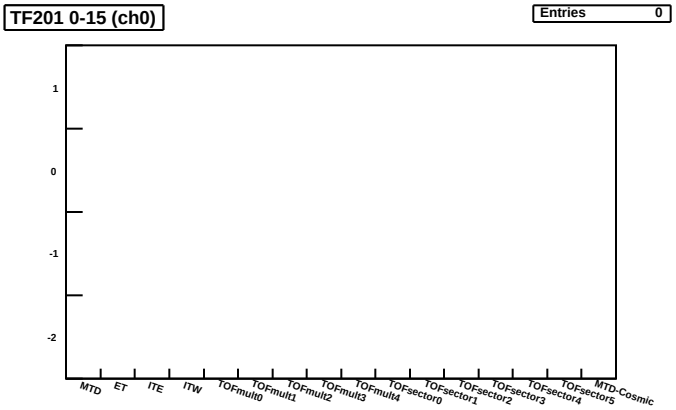

Input to FE002 QT board
Entries 1.28977e+07
ADC
channel

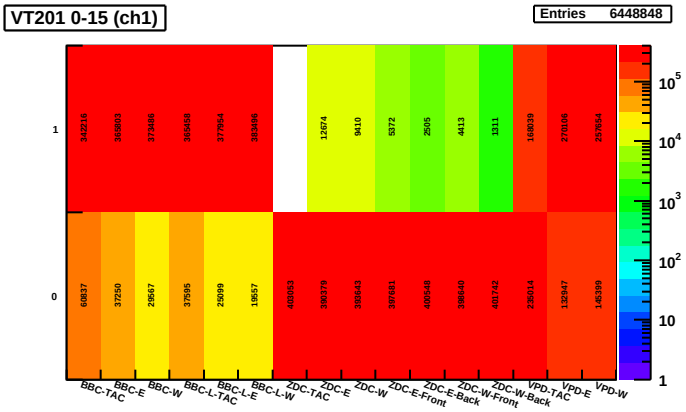

Input to FE003 QT board
Entries 1.28977e+07
ADC
channel

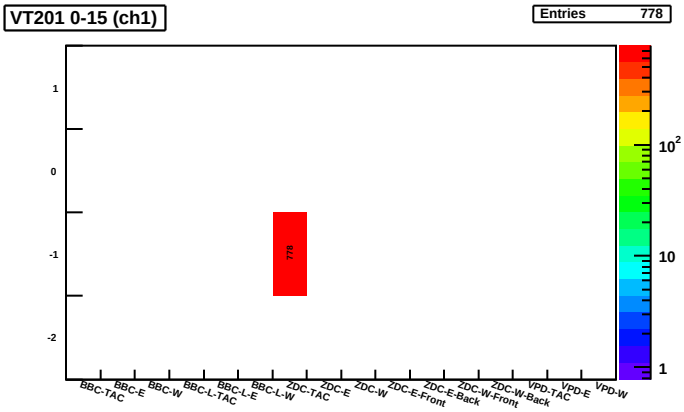

Input to FE004 QT board
Entries 1.28977e+07
ADC
channel

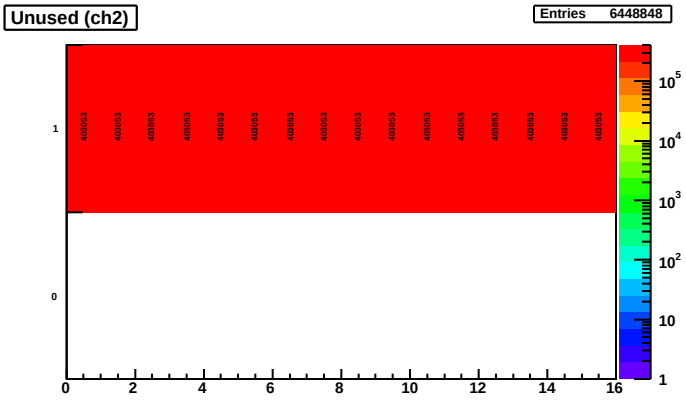

Input to FPE L1 DSM
Entries1612212
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 6448848
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 6448848
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 778
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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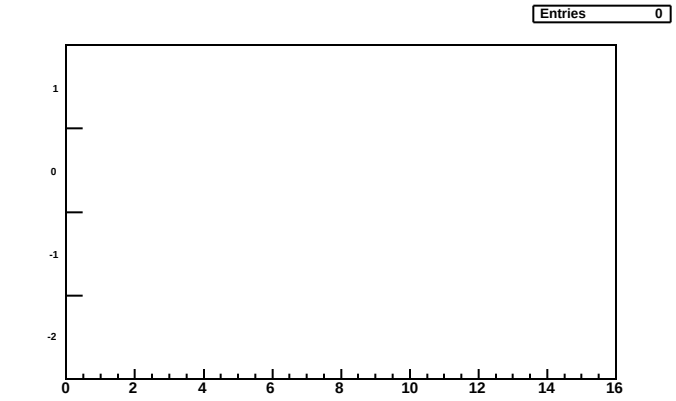
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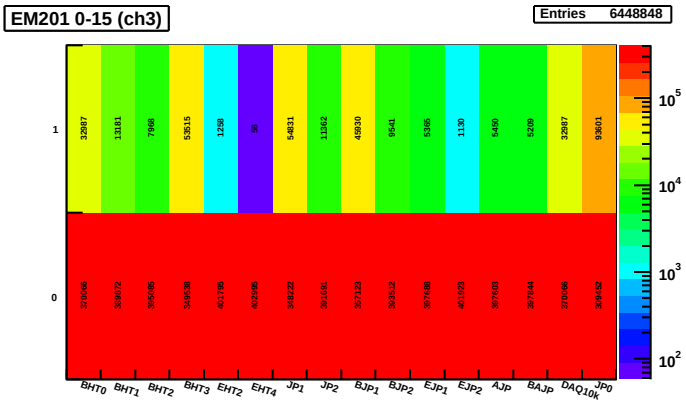
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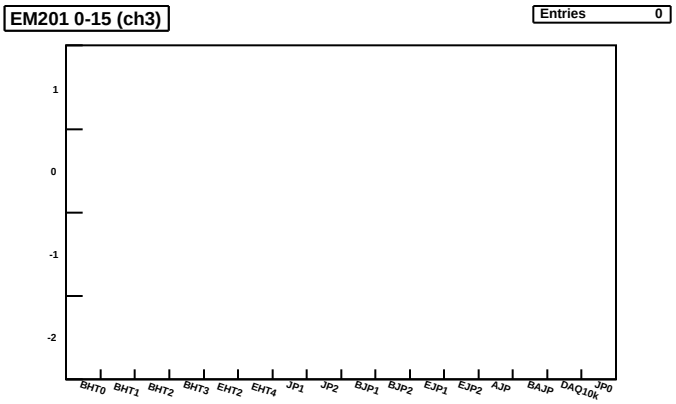
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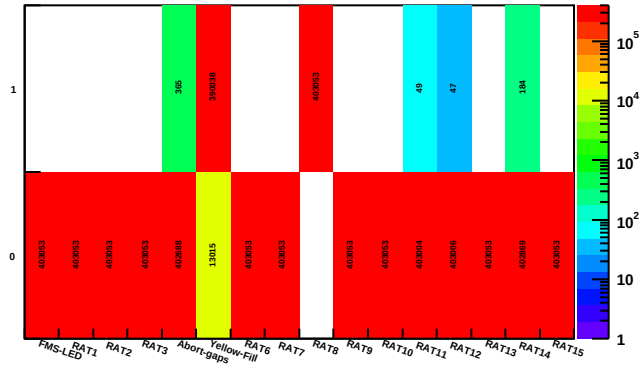
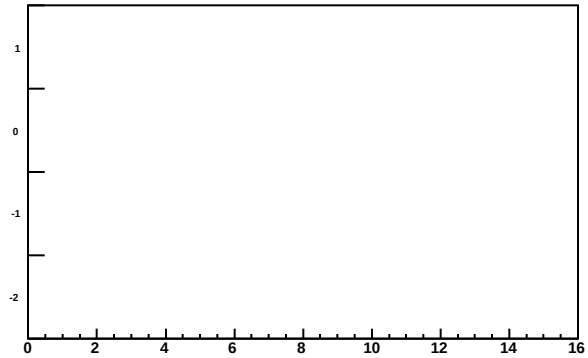
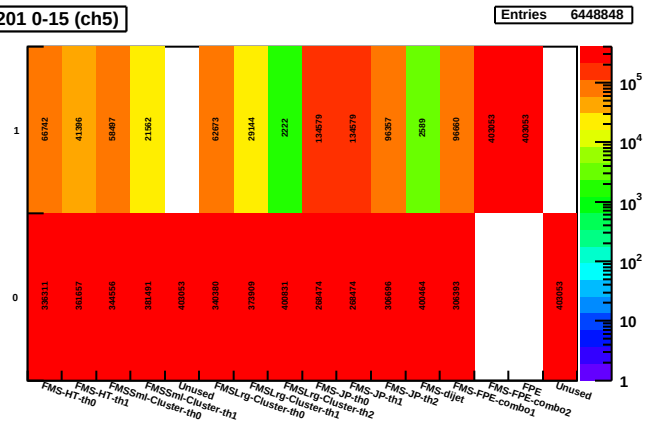
RAT board (ch4)





FP201 0-15 (ch5)



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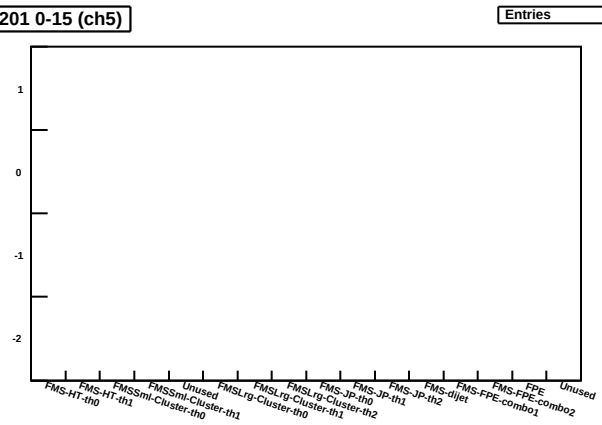
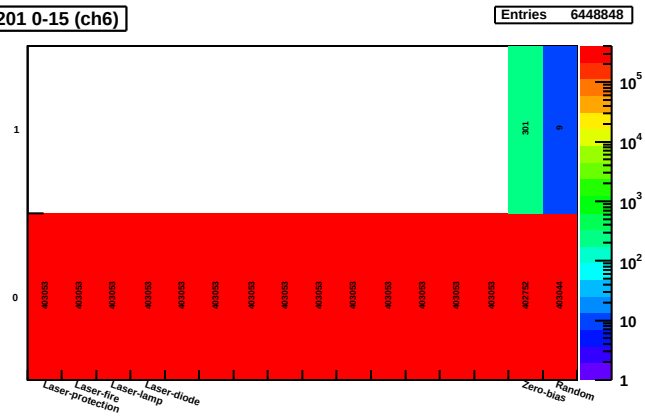
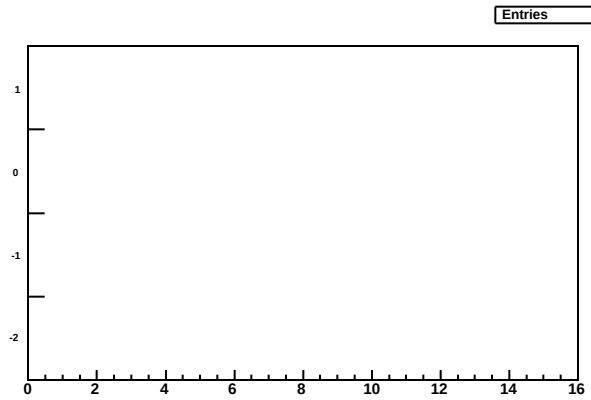
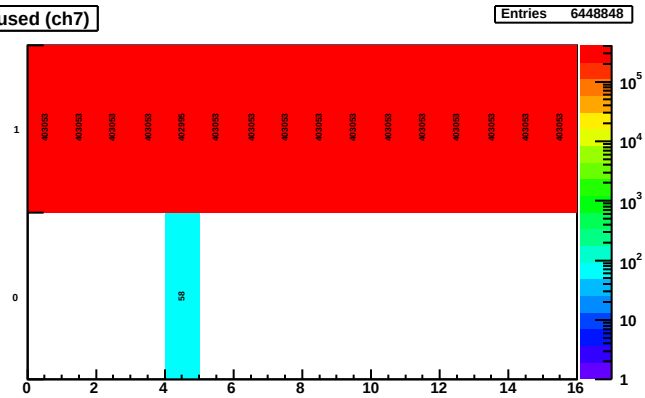
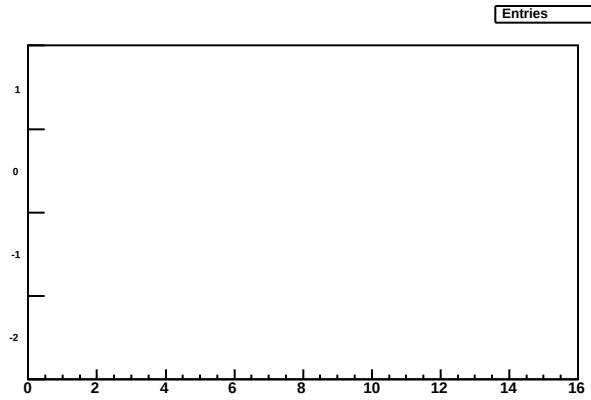


ST201 0-15 (ch6)





Unused (ch7)