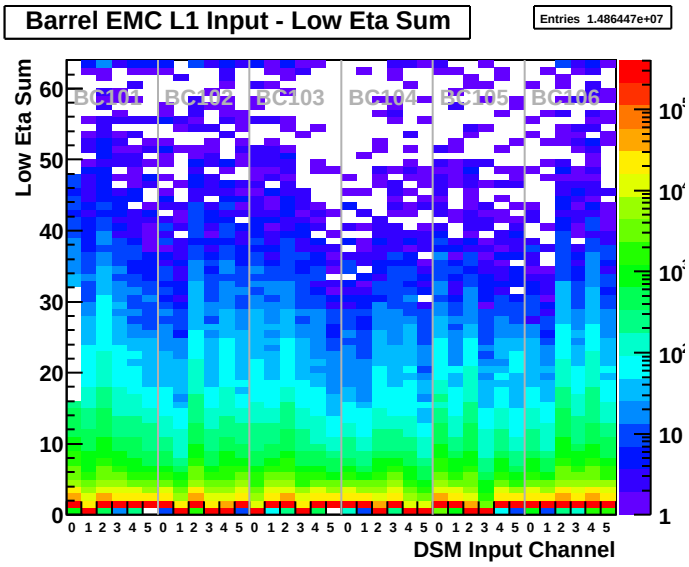
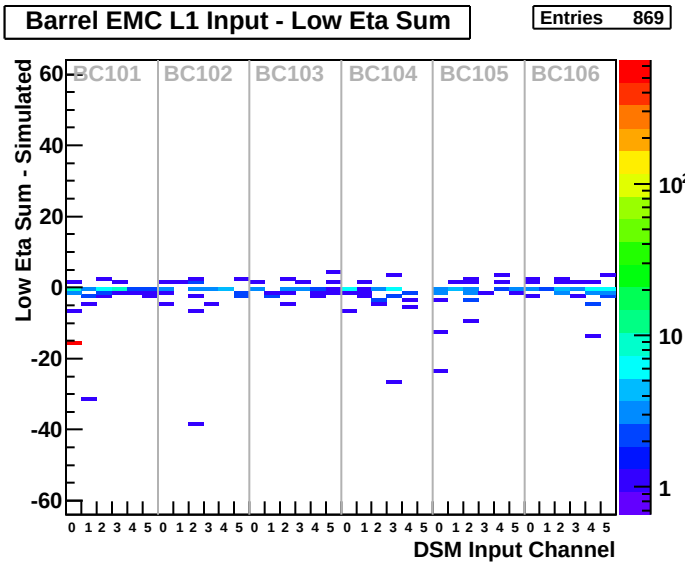
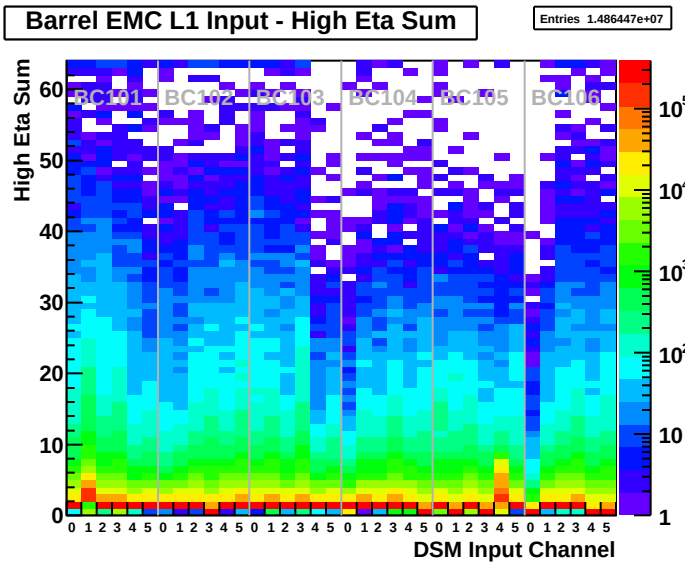
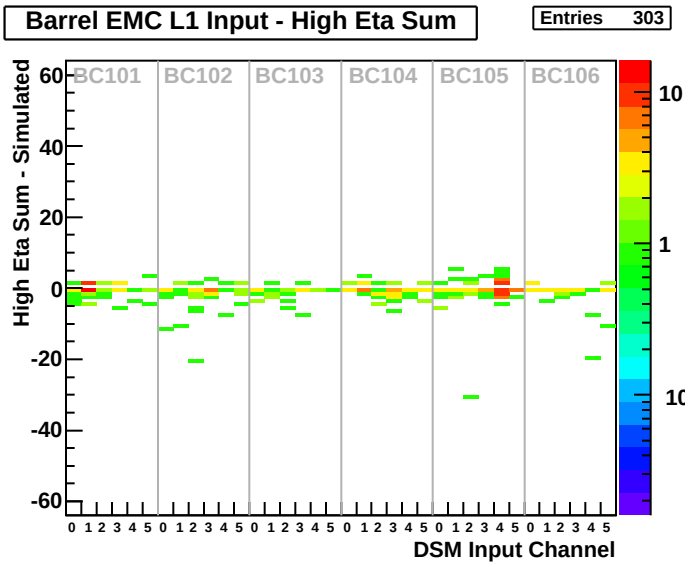
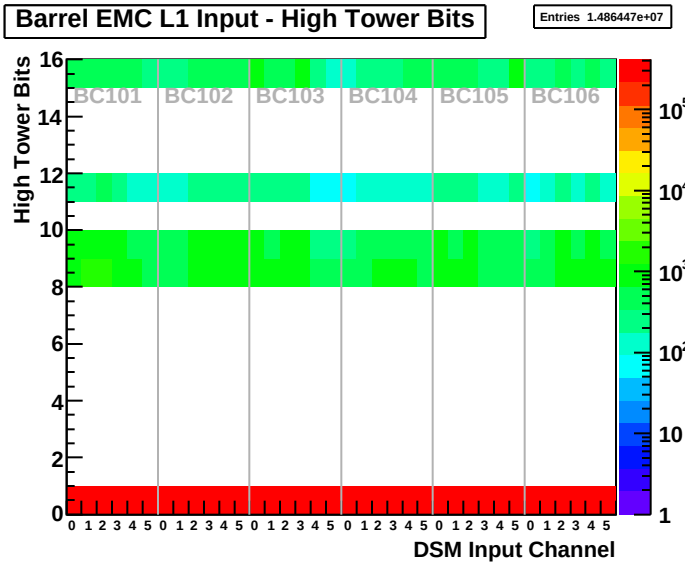
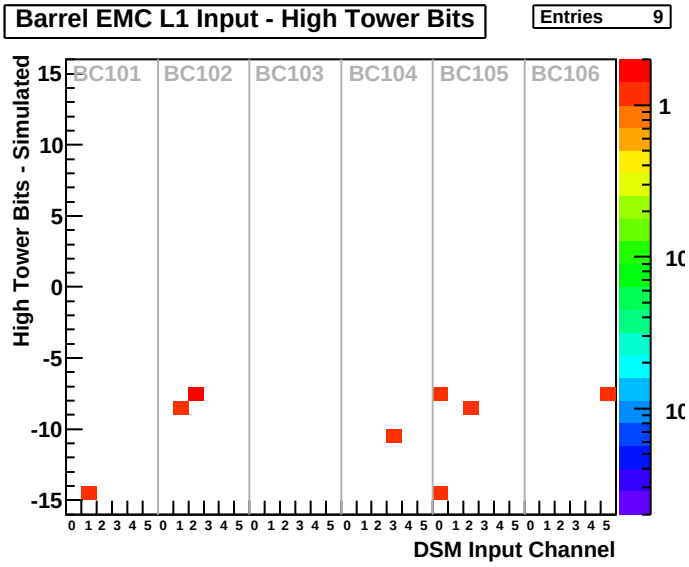

Barrel EMC L1 Input - Low Eta Sum
Entries 1.486447e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

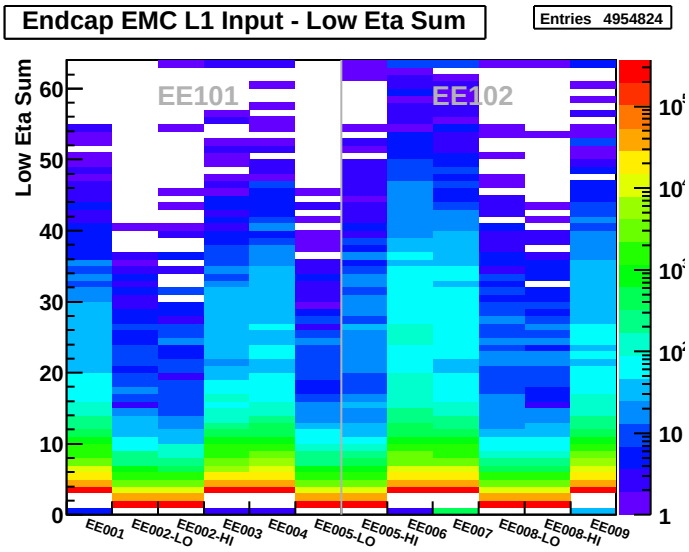

Barrel EMC L1 Input - Low Eta Sum
Entries 869
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

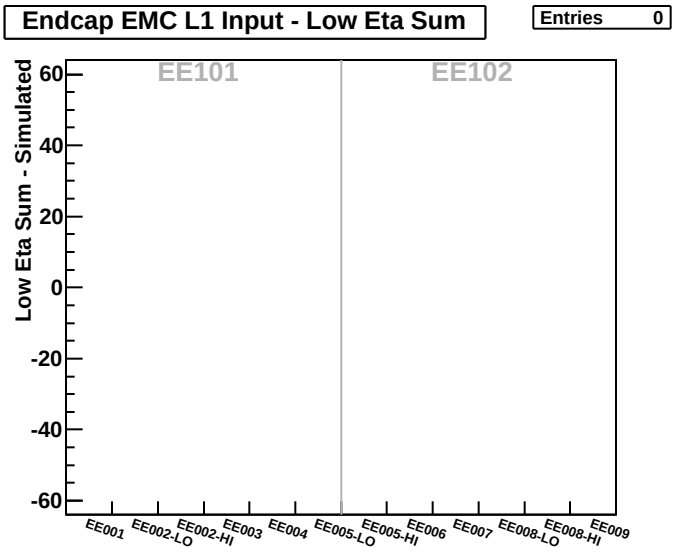

Barrel EMC L1 Input - High Eta Sum
Entries 1.486447e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

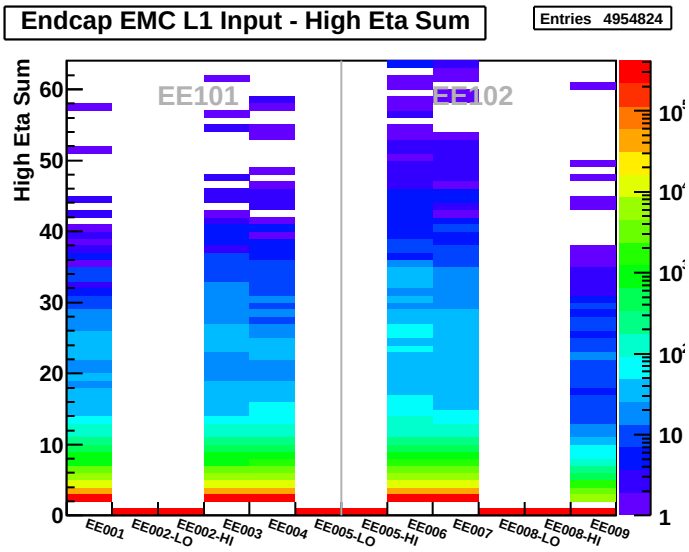

Barrel EMC L1 Input - High Eta Sum
Entries 303
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

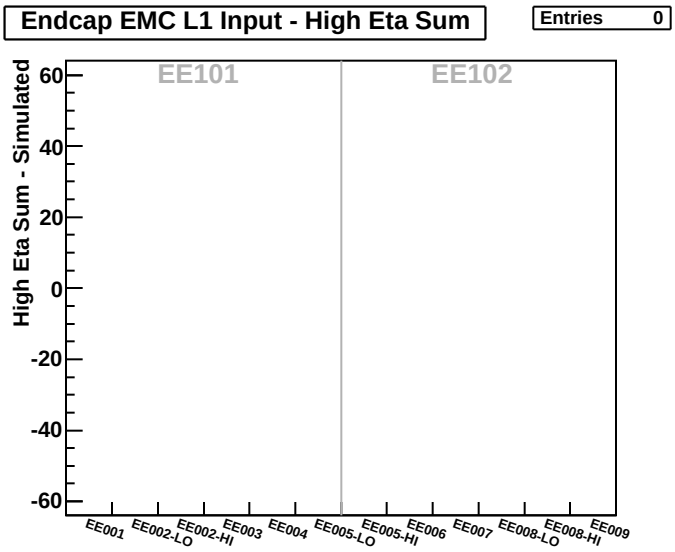

Barrel EMC L1 Input - High Tower Bits
Entries 1.486447e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

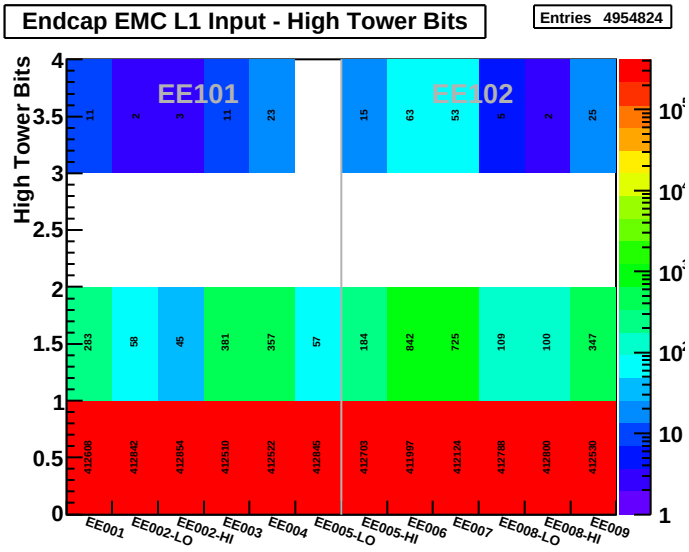

Barrel EMC L1 Input - High Tower Bits
Entries 9
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

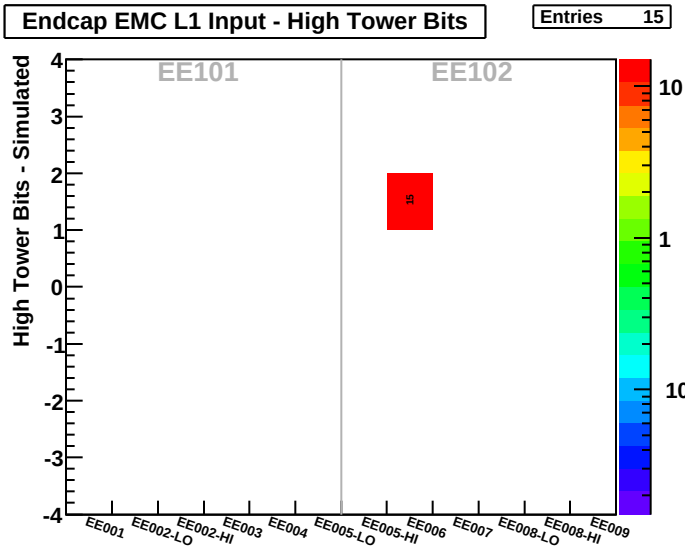

Endcap EMC L1 Input - Low Eta Sum
Entries 4954824
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

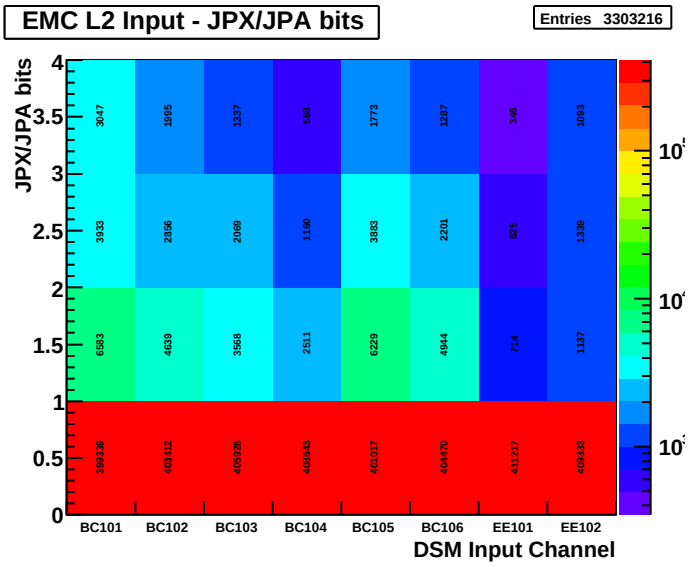

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

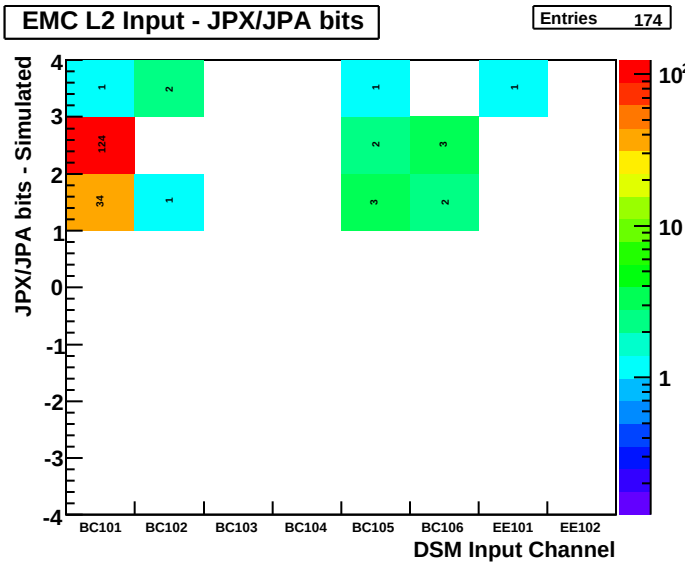

Endcap EMC L1 Input - High Eta Sum
Entries 4954824
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

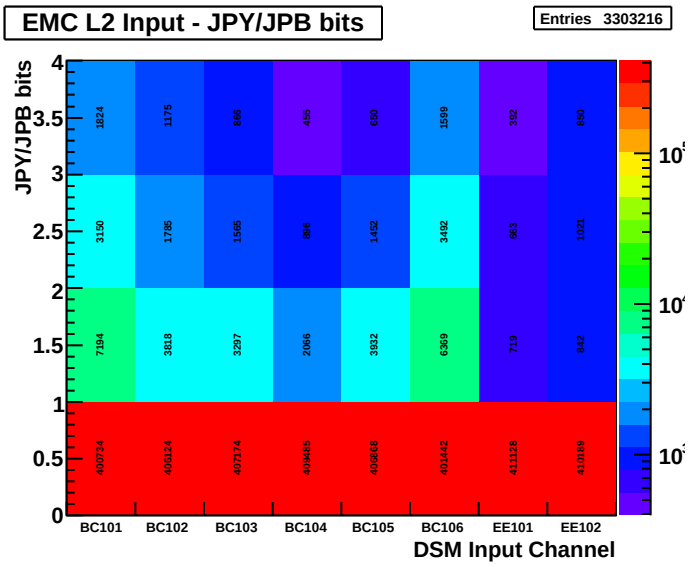

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

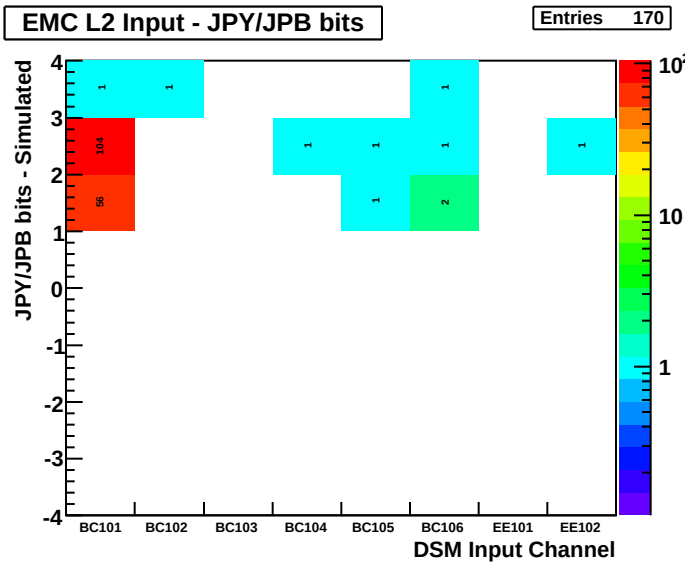

Endcap EMC L1 Input - High Tower Bits
Entries 4954824
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

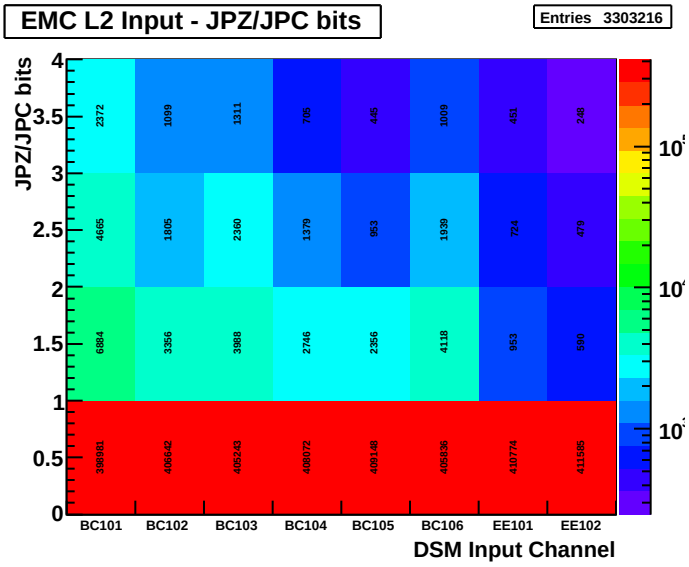

Endcap EMC L1 Input - High Tower Bits
Entries 15
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

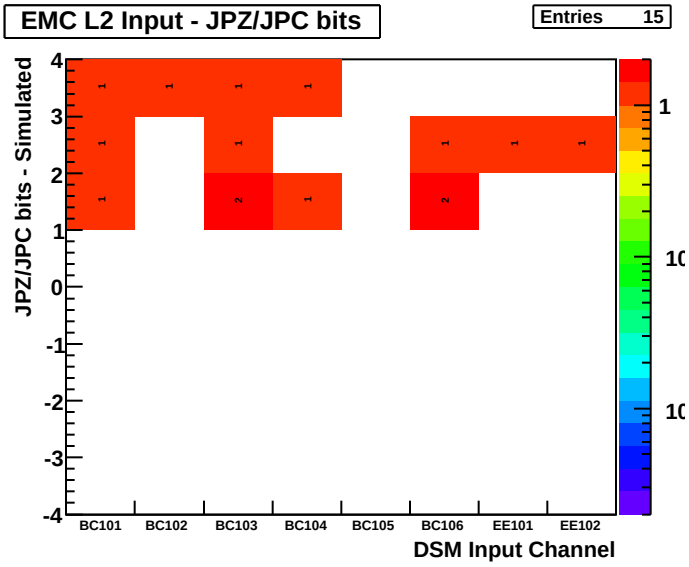

EMC L2 Input - JPX/JPA bits
Entries 3303216
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3047 1995 1337 588 1773 1287 346 1093
3933 2856 2069 1160 3883 2201 625 1339
6583 4639 3568 2511 6229 4944 714 1137
399339 403412 405928 408643 401017 404470 411217 409333

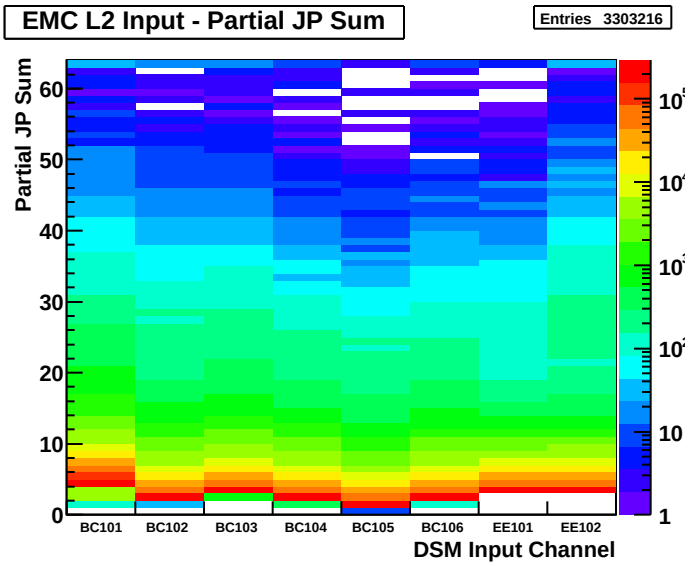

EMC L2 Input - JPX/JPA bits
Entries 174
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 2 1 1
124 2 3
34 1 3 2

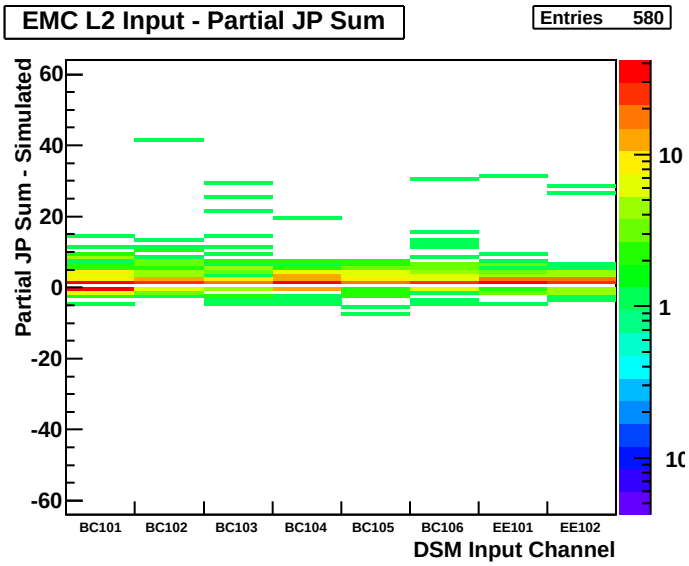

EMC L2 Input - JPY/JPB bits
Entries 3303216
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1824 1175 866 455 650 1599 392 850
3150 1785 1565 886 1452 3492 663 1021
7194 3818 3297 2056 3932 6369 719 842
400734 406124 407174 409485 408868 401442 411128 410189

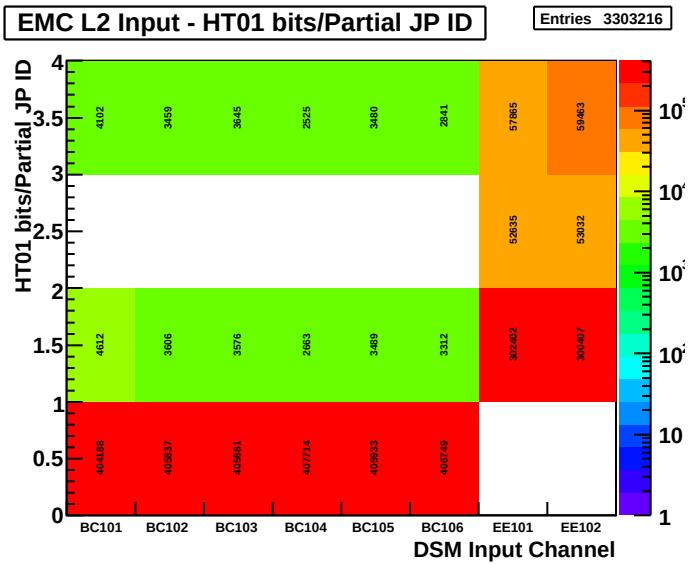

EMC L2 Input - JPY/JPB bits
Entries 170
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1
104 1 1 1 1
56 1 2

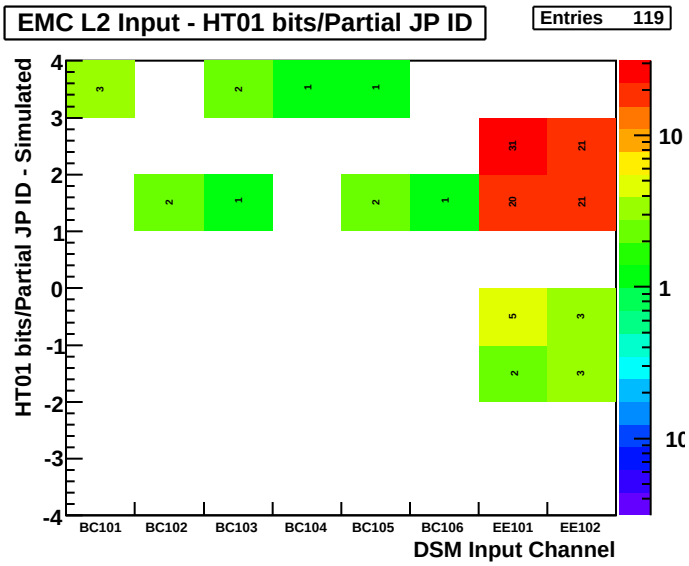

EMC L2 Input - JPZ/JPC bits
Entries 3303216
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2372 1099 1311 705 445 1009 451 248
4665 1905 2360 1379 953 1939 724 479
6884 3356 3988 2746 2356 4118 953 590
398981 406842 405243 408072 409148 405838 410774 411585

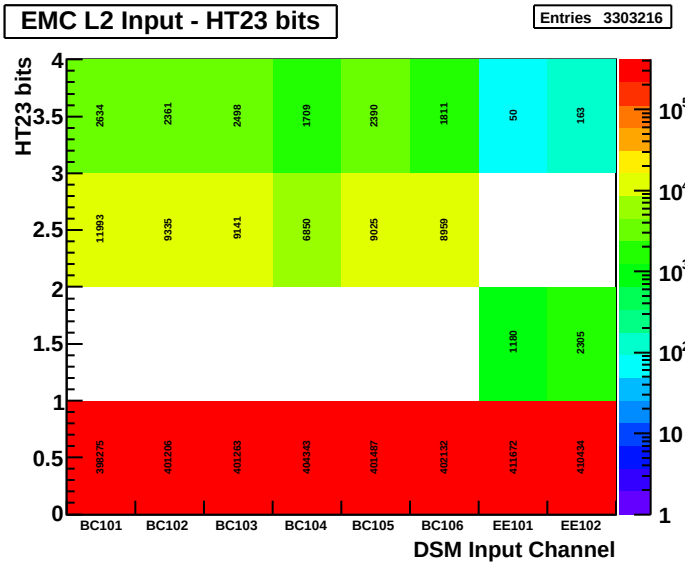

EMC L2 Input - JPZ/JPC bits
Entries 15
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1
1 1 1 1 1
1 2 1 2

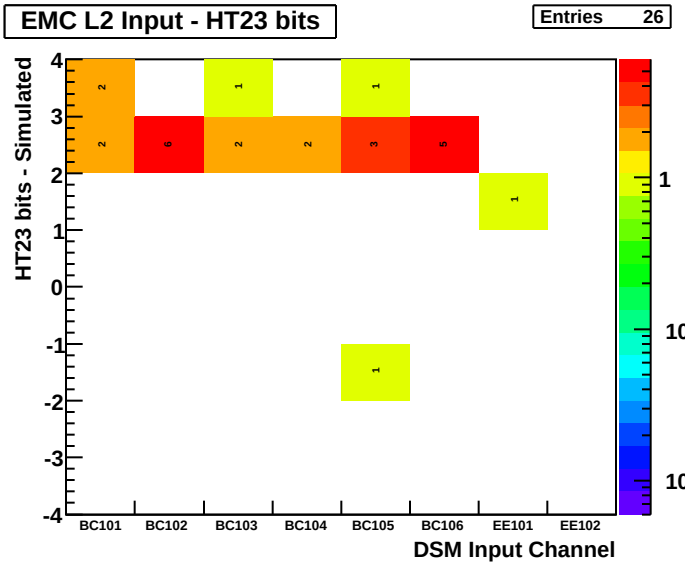

EMC L2 Input - Partial JP Sum
Entries 3303216
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

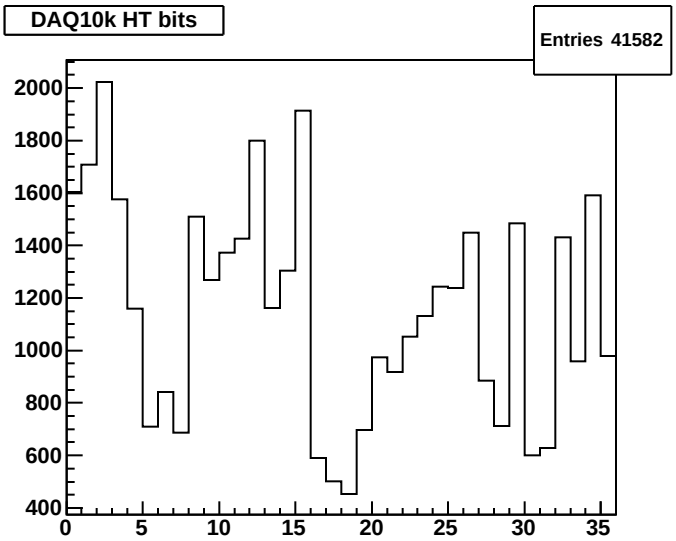

EMC L2 Input - Partial JP Sum
Entries 580
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

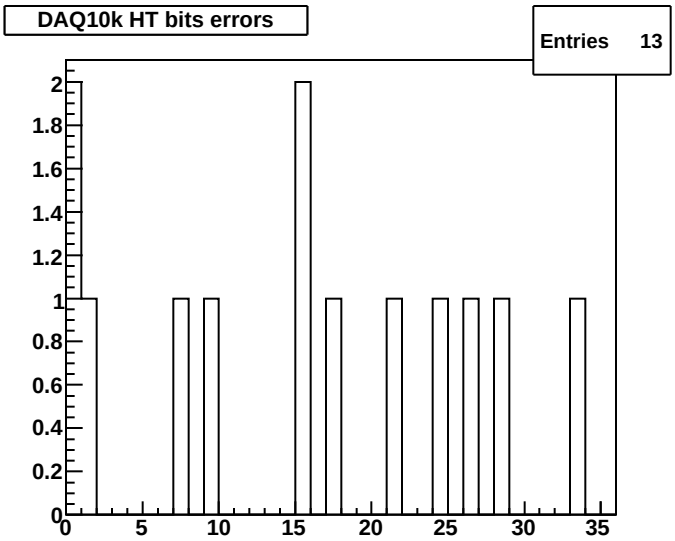

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3303216
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

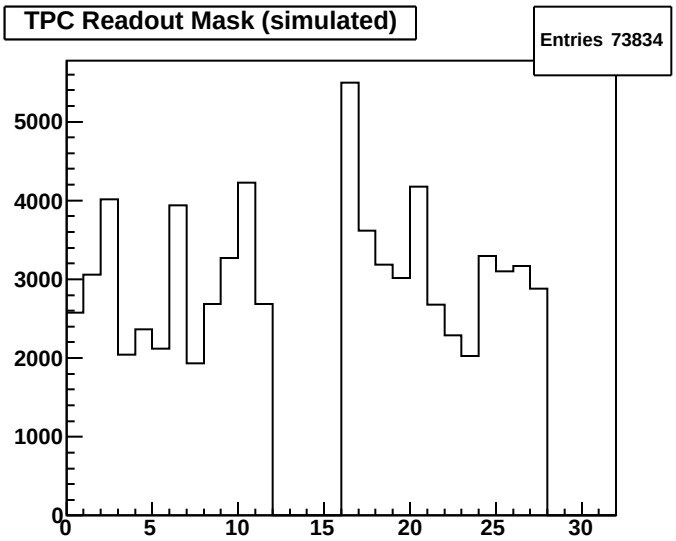

EMC L2 Input - HT01 bits/Partial JP ID
Entries 119
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

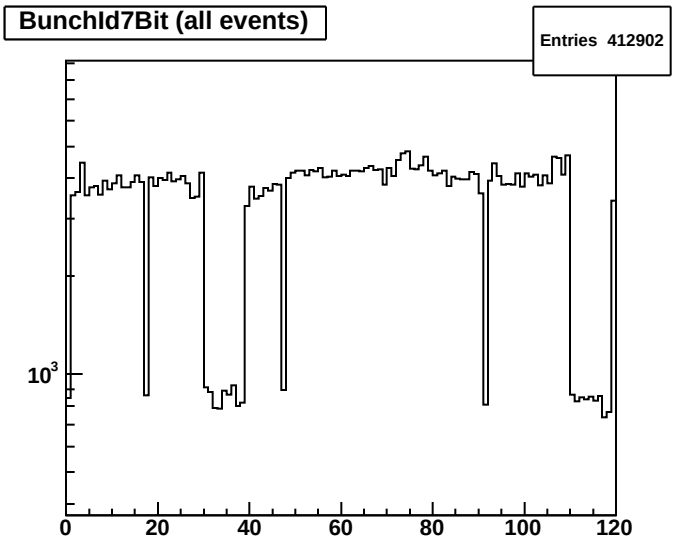

EMC L2 Input - HT23 bits
Entries 3303216
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

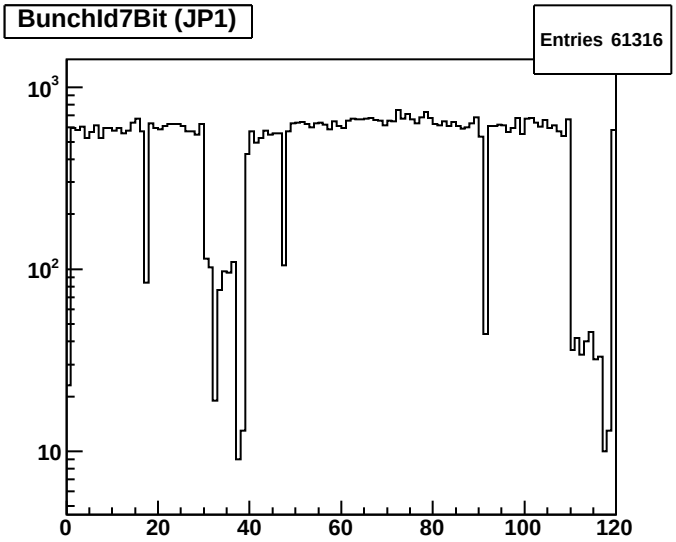

EMC L2 Input - HT23 bits
Entries 26
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

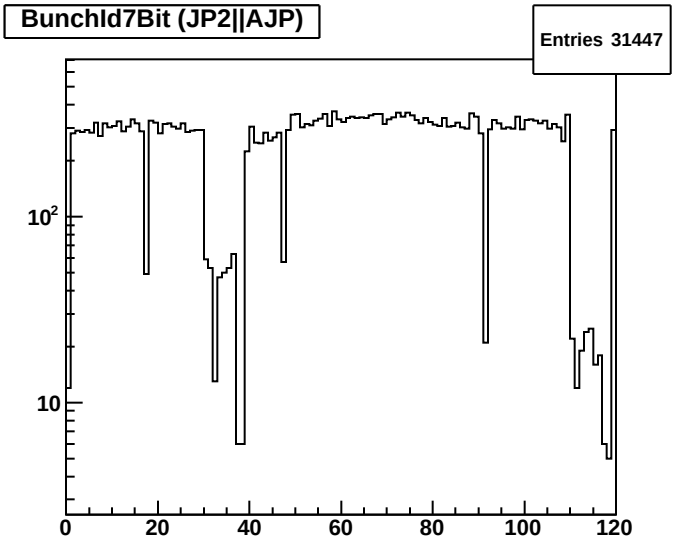

DAQ10k HT bits
Entries 41582

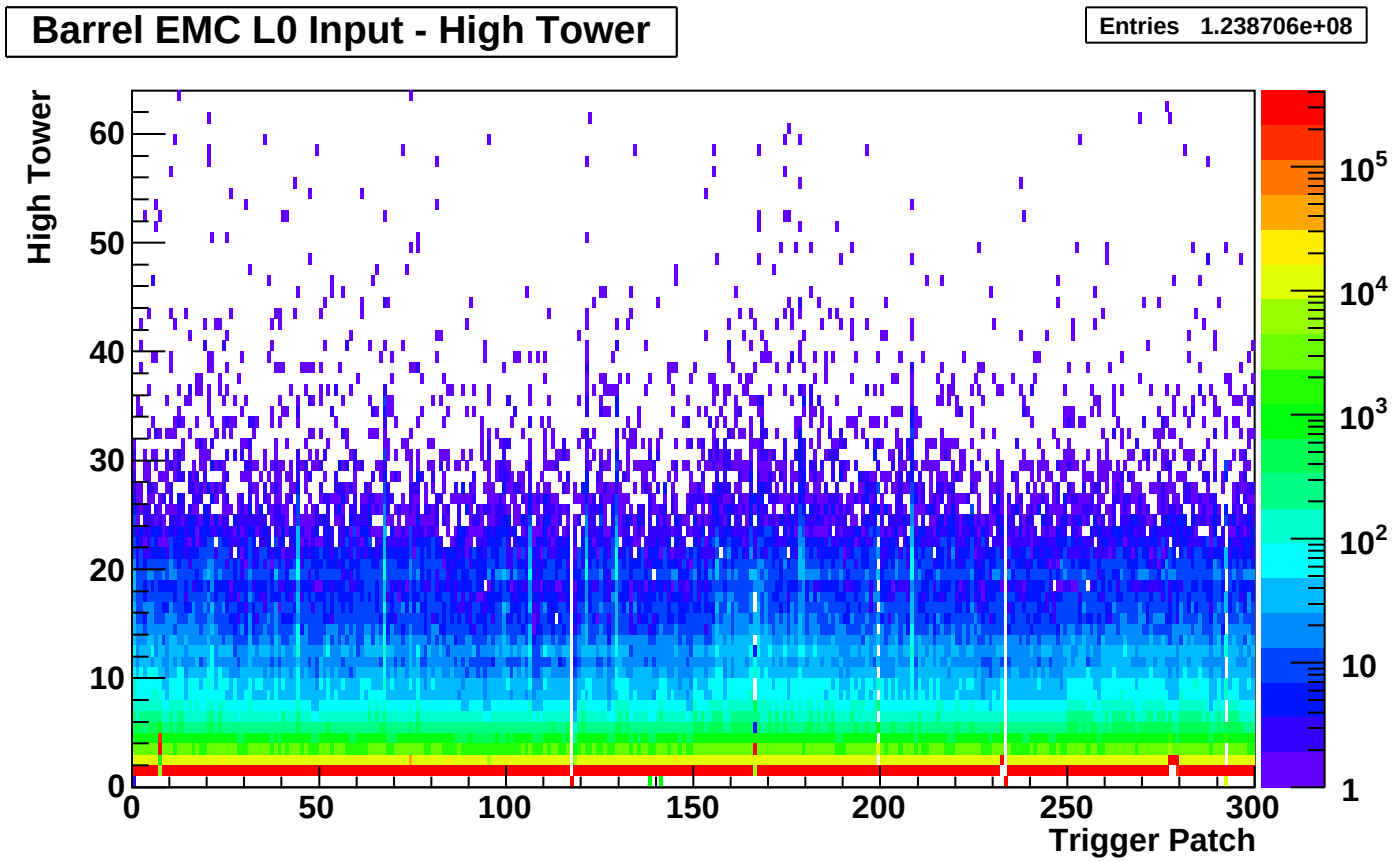

DAQ10k HT bits errors
Entries 13

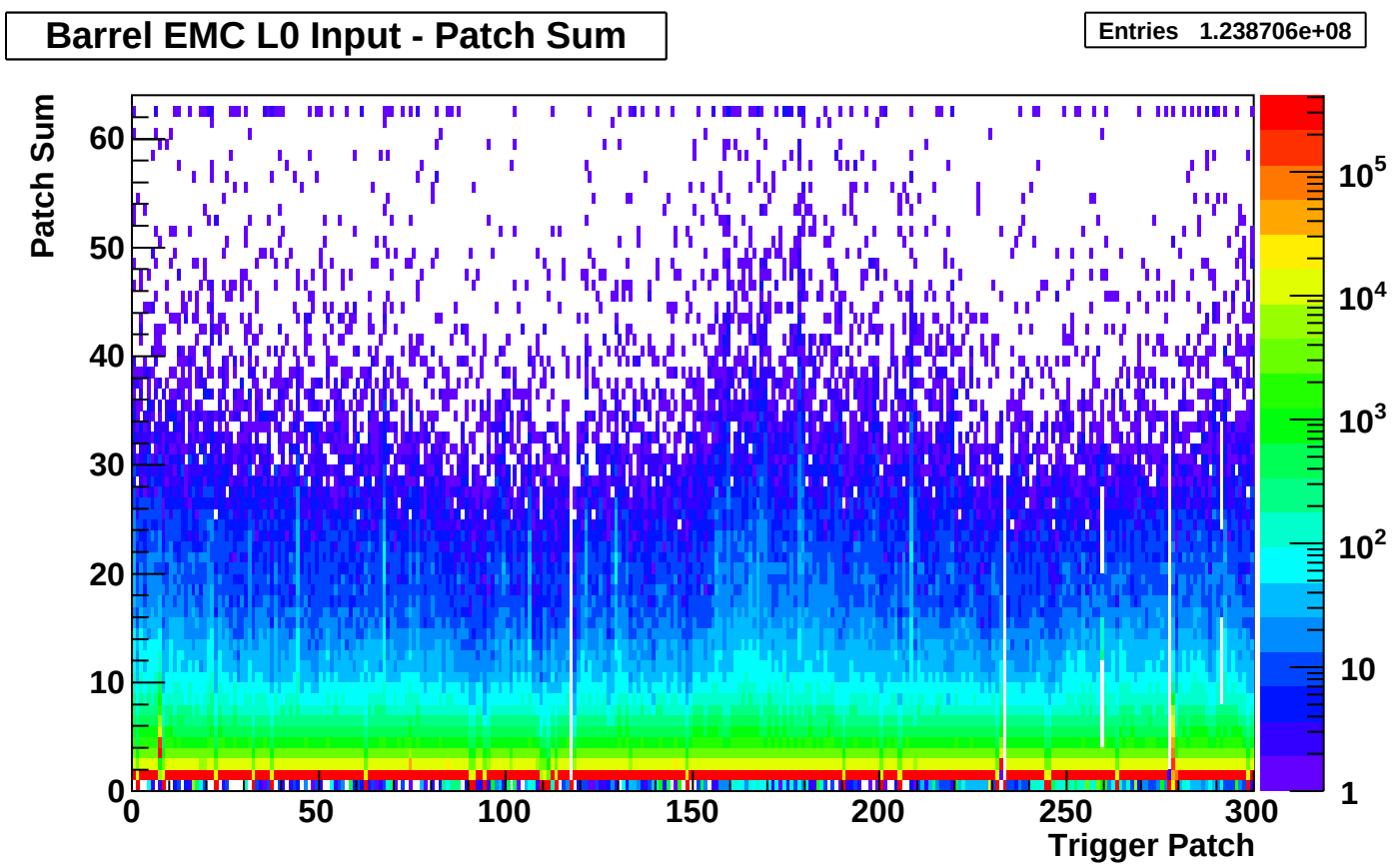

TPC Readout Mask (simulated)
Entries 73834

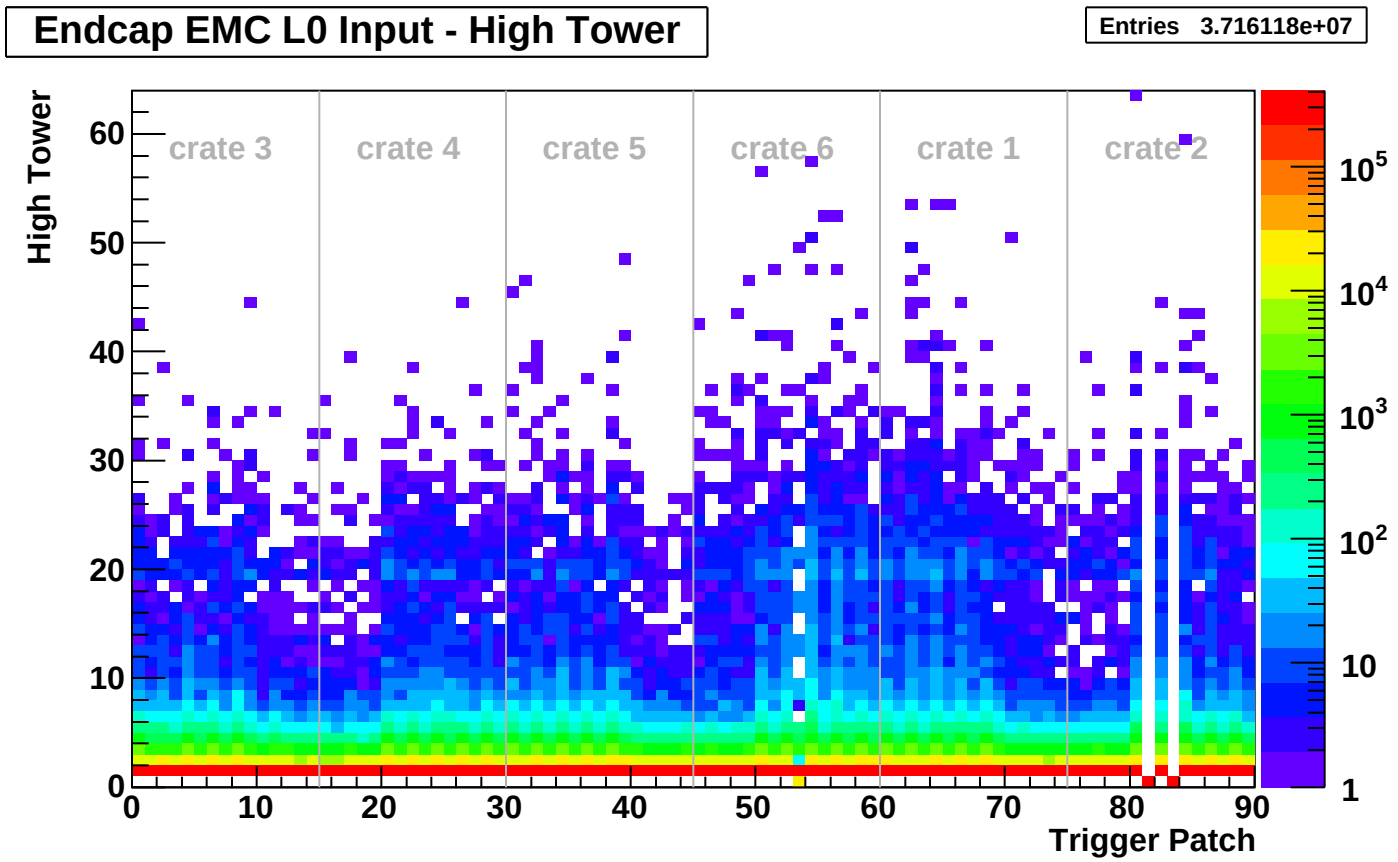

BunchId7Bit (all events)
Entries 412902

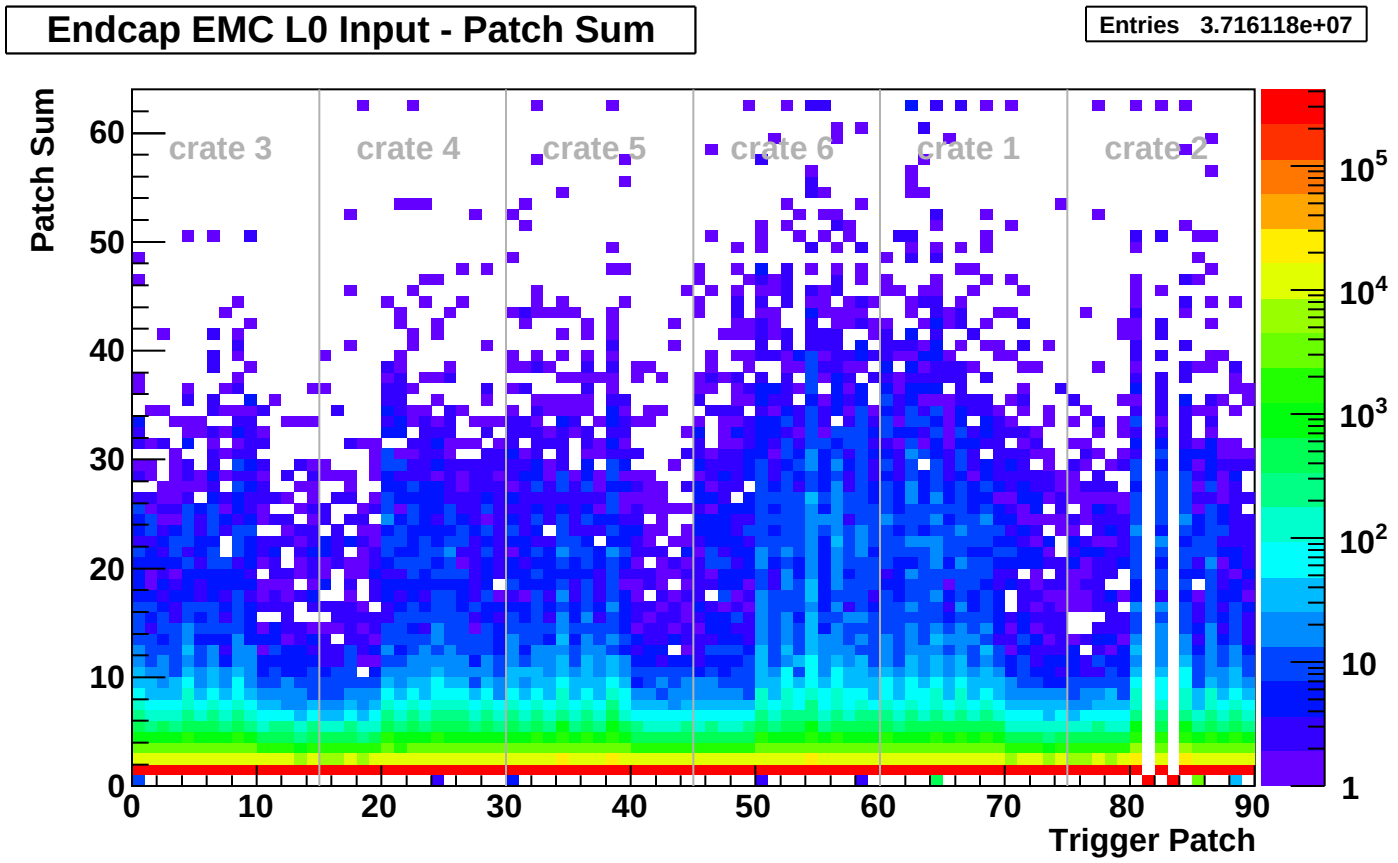

BunchId7Bit (JP1)
Entries 61316

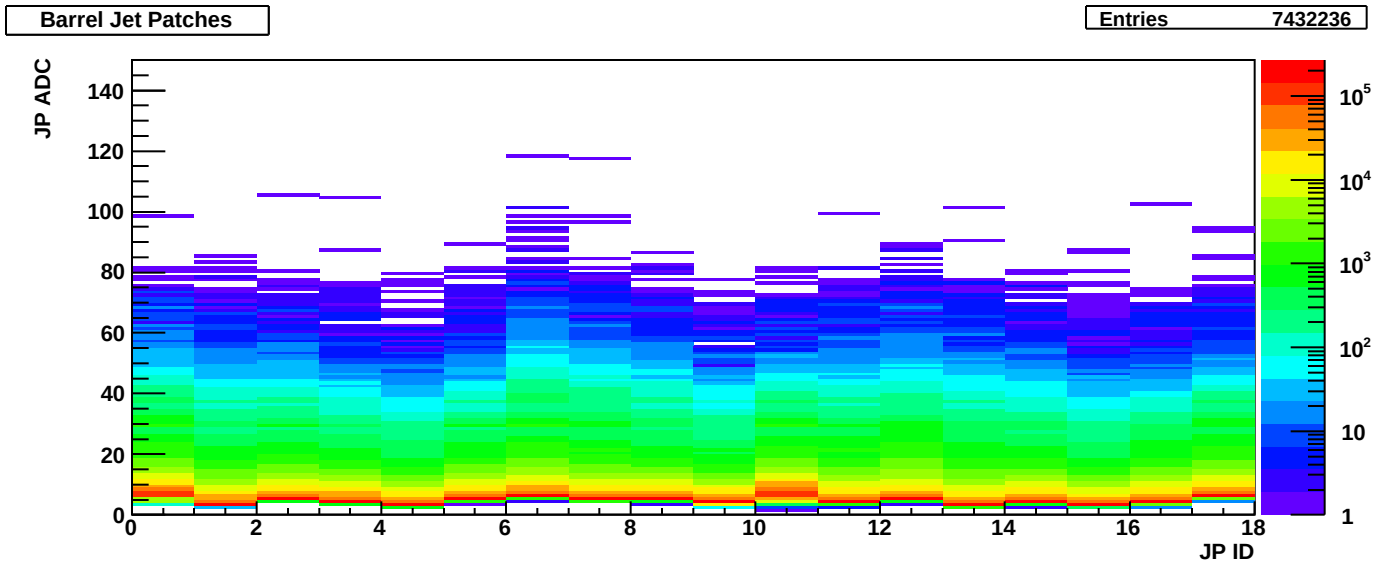

BunchId7Bit (JP2||AJP)
Entries 31447

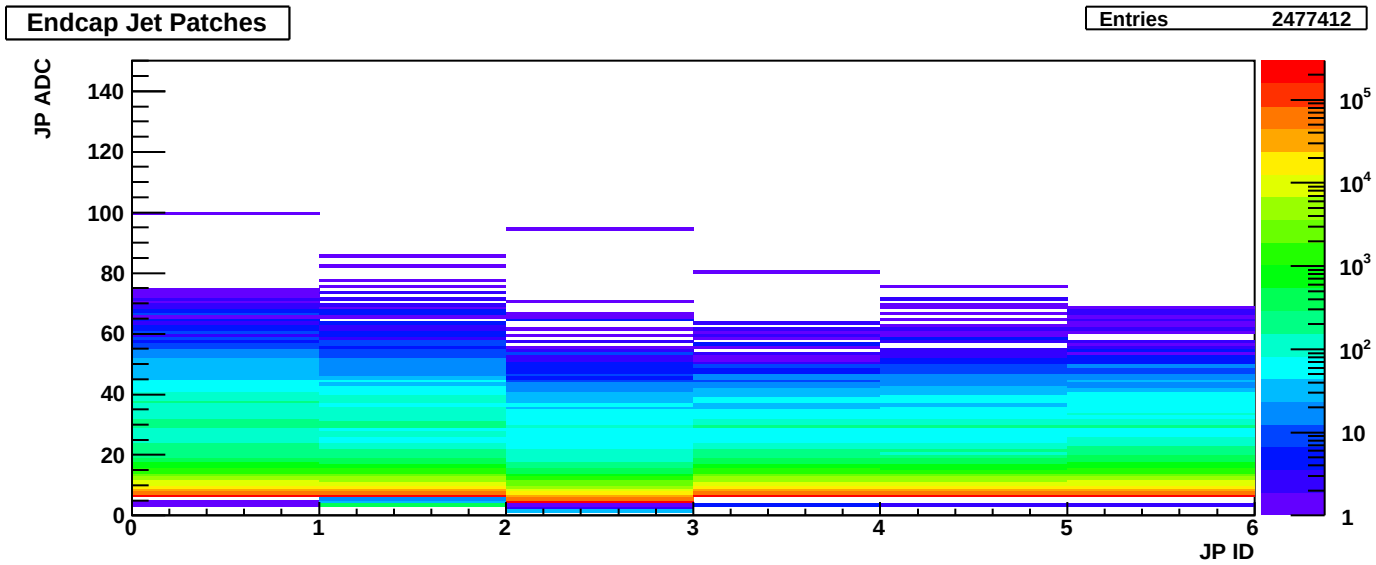

Barrel EMC L0 Input - High Tower
Entries 1.238706e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

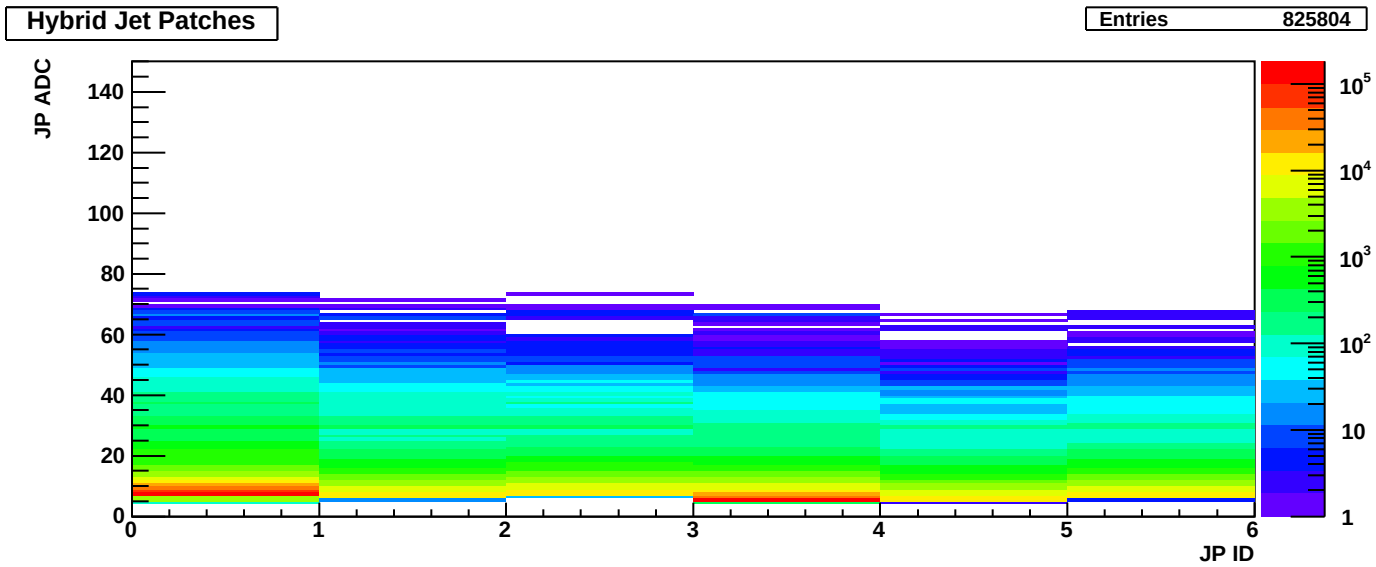

Barrel EMC L0 Input - Patch Sum
Entries 1.238706e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

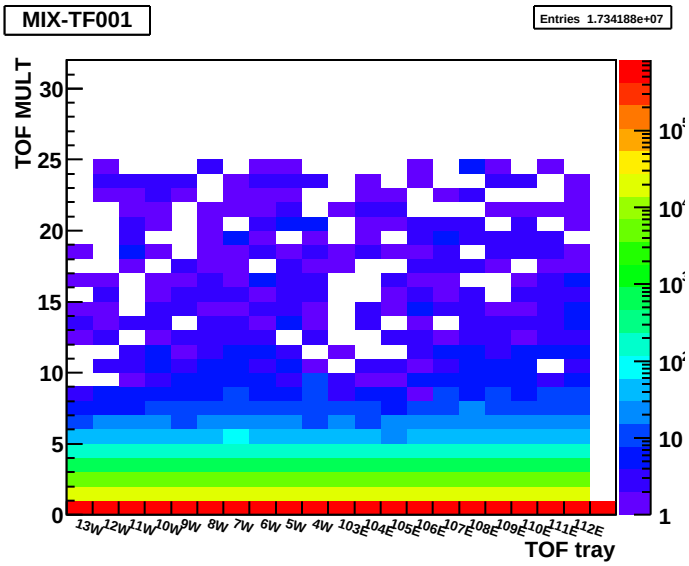

Endcap EMC L0 Input - High Tower
Entries 3.716118e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

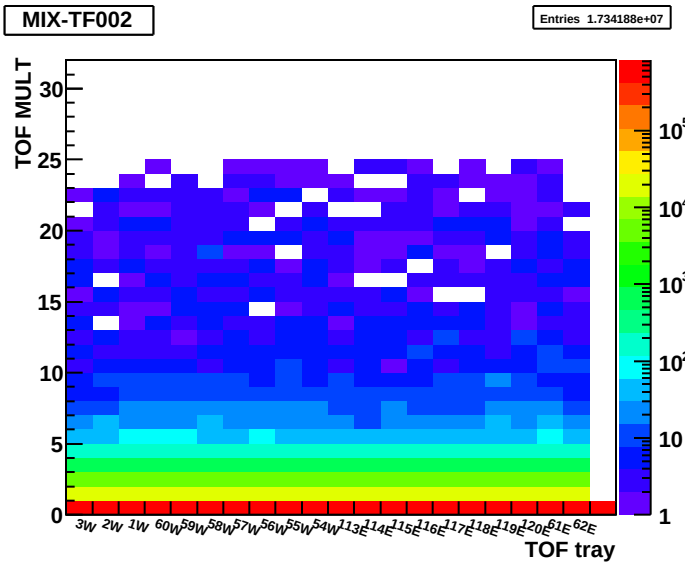

Endcap EMC L0 Input - Patch Sum
Entries 3.716118e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

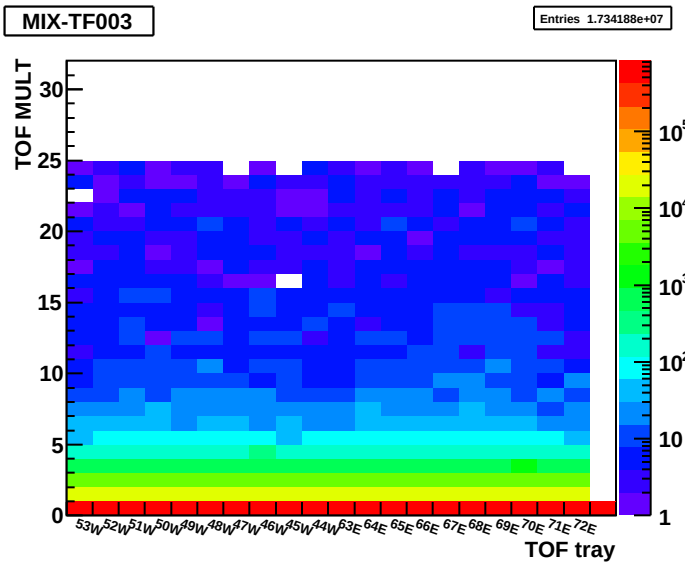

Barrel Jet Patches
Entries 7432236
JP ADC
JP ID

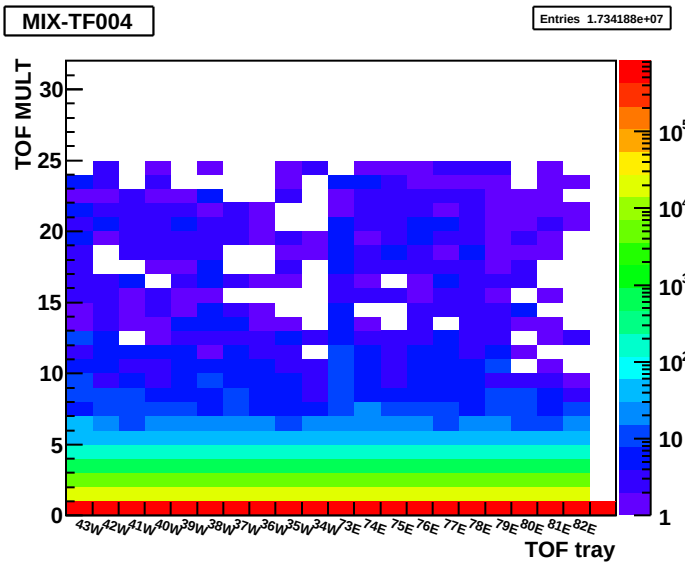

Endcap Jet Patches
Entries 2477412
JP ADC
JP ID

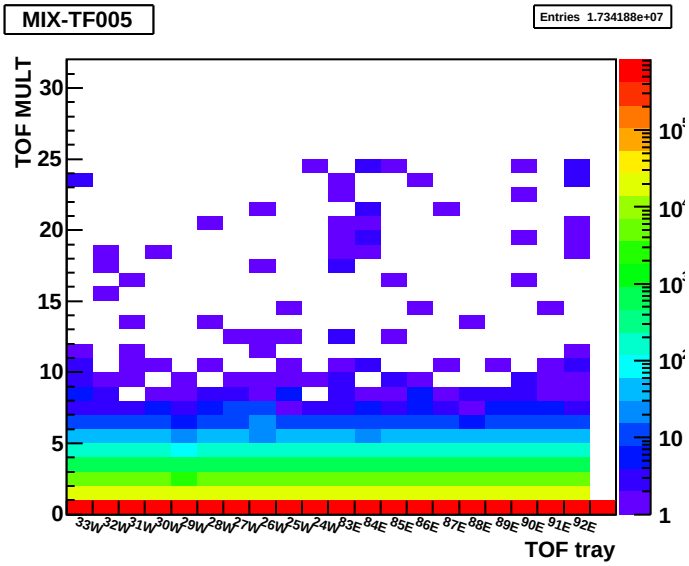

Hybrid Jet Patches
Entries 825804
JP ADC
JP ID

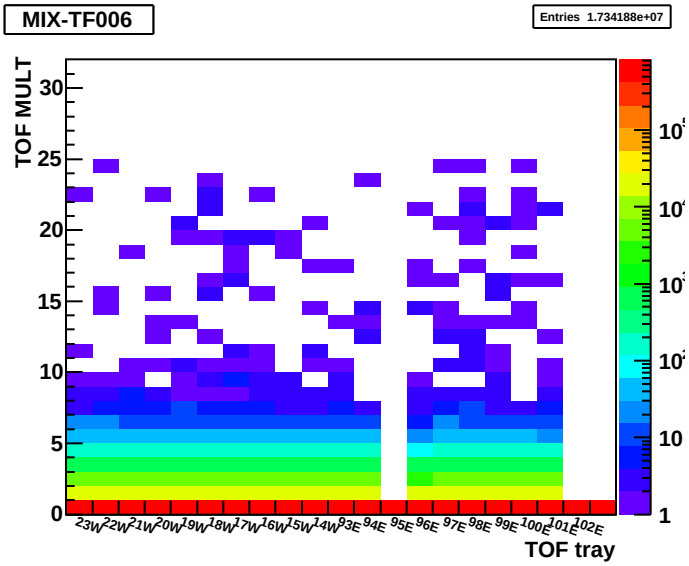

MIX-TF001
Entries 1.734188e+07
TOF MULT
TOF tray

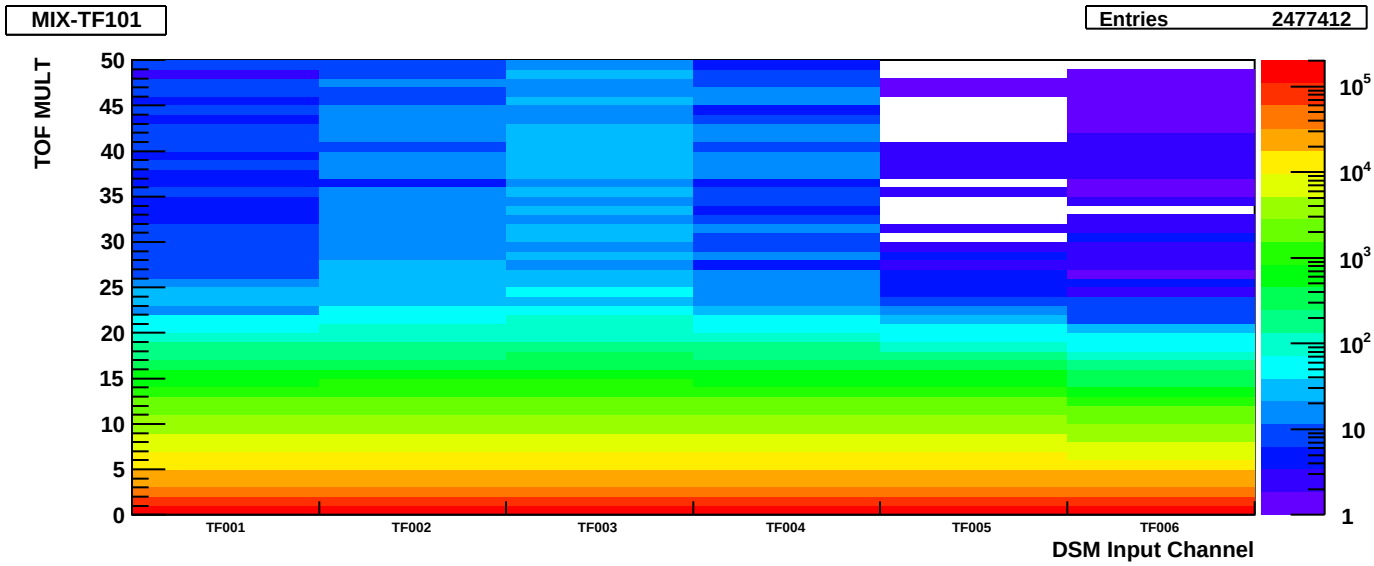

MIX-TF002
Entries 1.734188e+07
TOF MULT
TOF tray

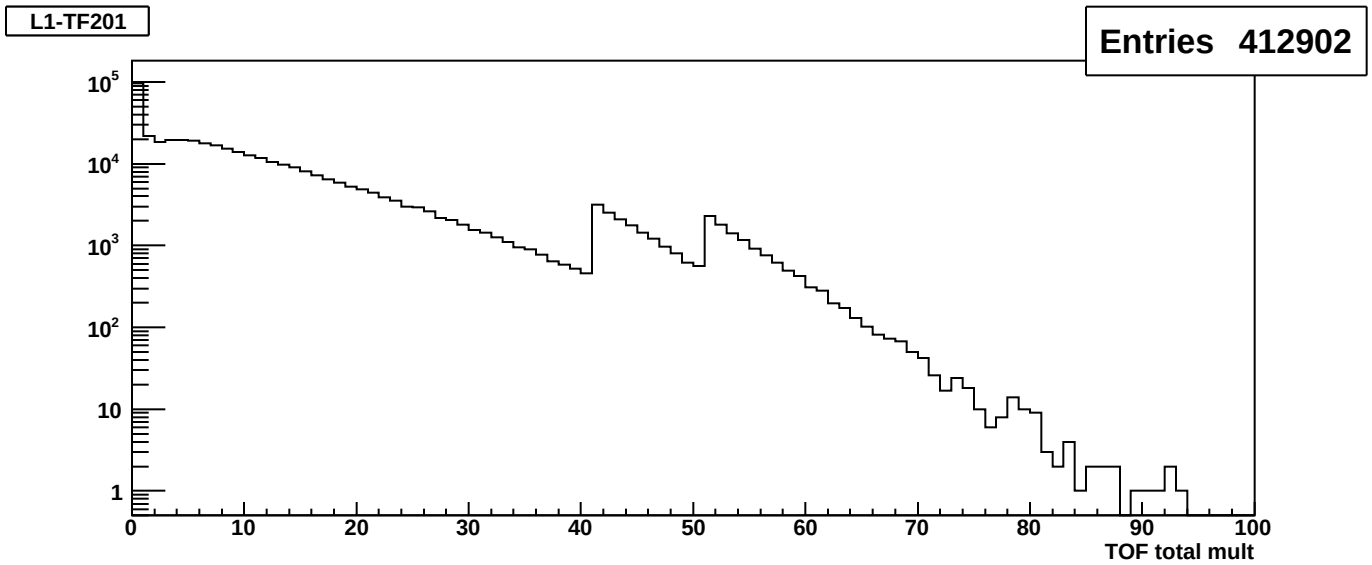

MIX-TF003
Entries 1.734188e+07
TOF MULT
TOF tray

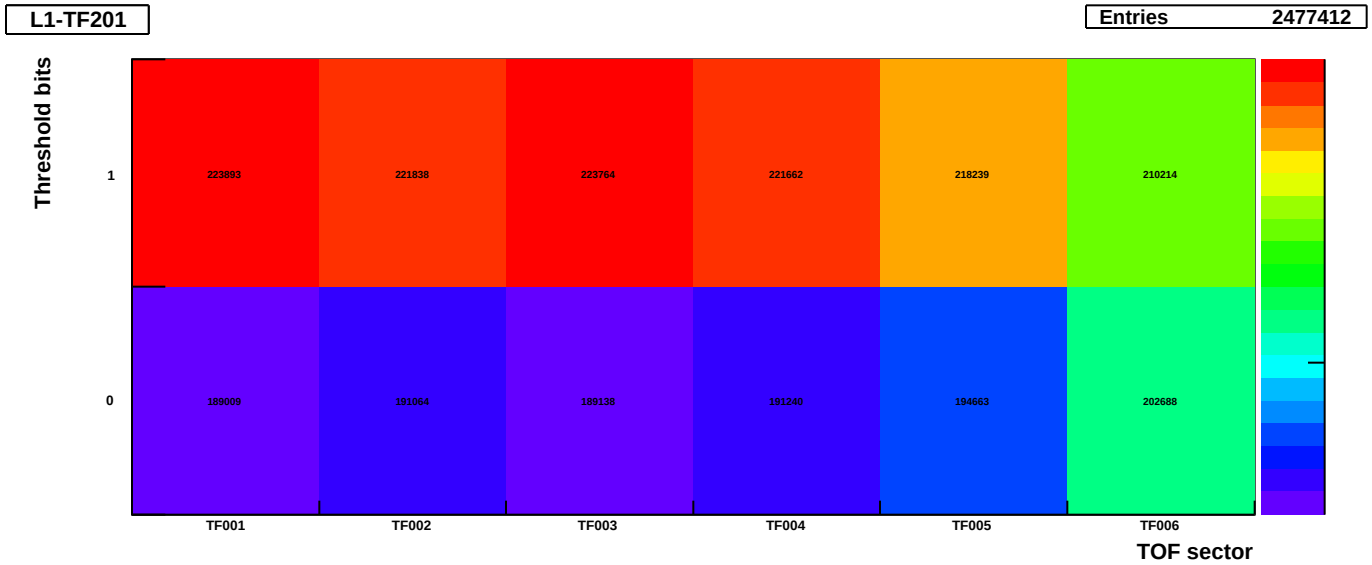

MIX-TF004
Entries 1.734188e+07
TOF MULT
TOF tray

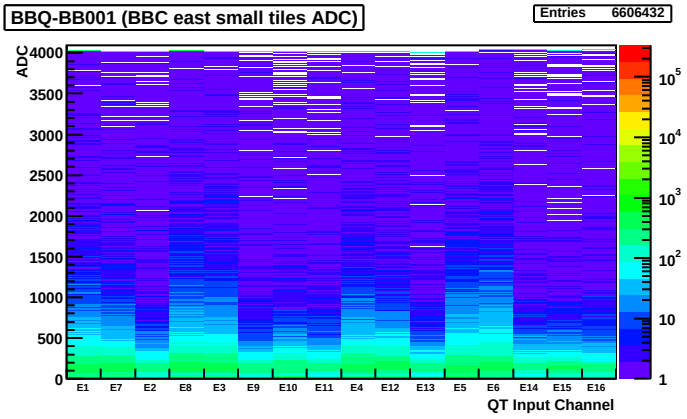

MIX-TF005
Entries 1.734188e+07
TOF MULT
TOF tray

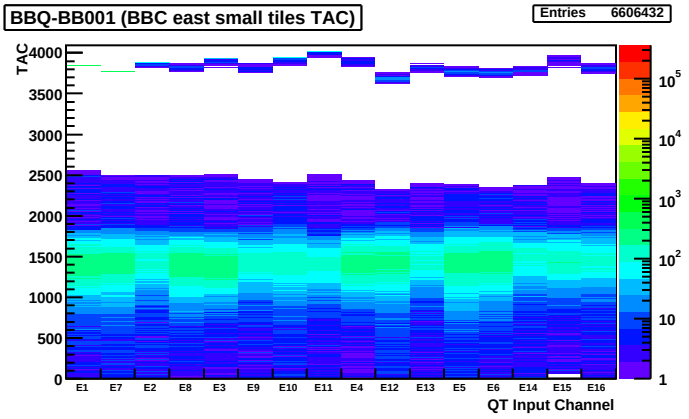

MIX-TF006
Entries 1.734188e+07
TOF MULT
TOF tray

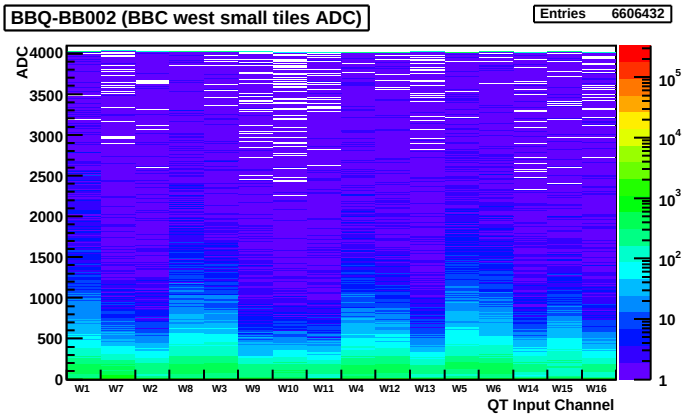

MIX-TF101
Entries 2477412
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

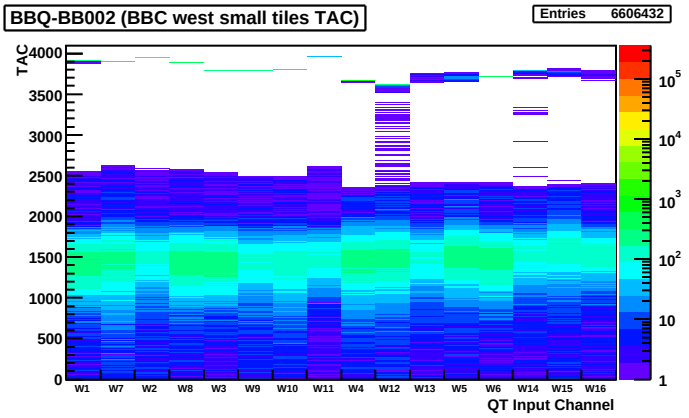

L1-TF201
Entries 412902
TOF total mult

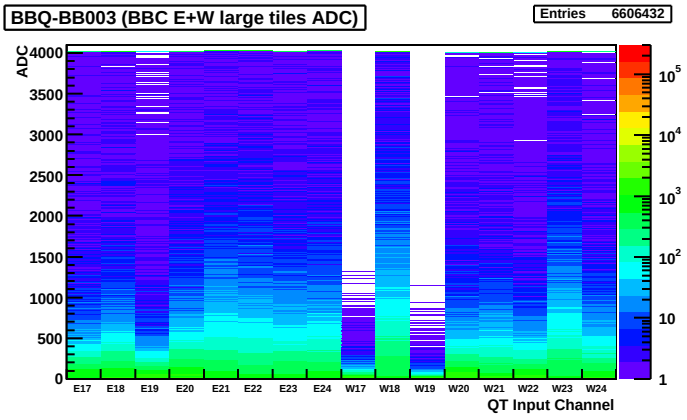

L1-TF201
Entries 2477412
Threshold bits
223893
221838
223764
221662
218239
210214
189009
191064
189138
191240
194663
202688
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

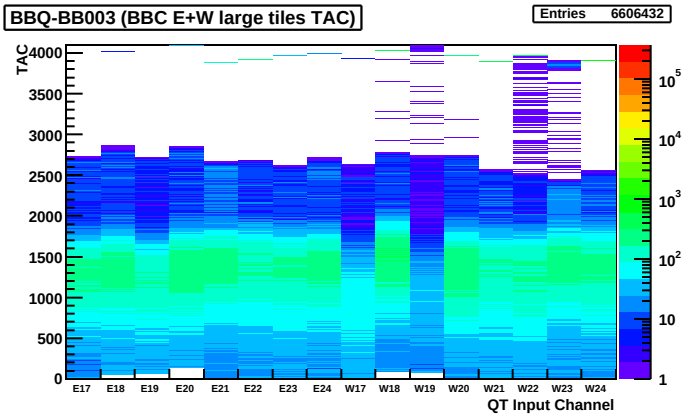

BBQ-BB001 (BBC east small tiles ADC)
Entries 6606432
ADC
QT Input Channel

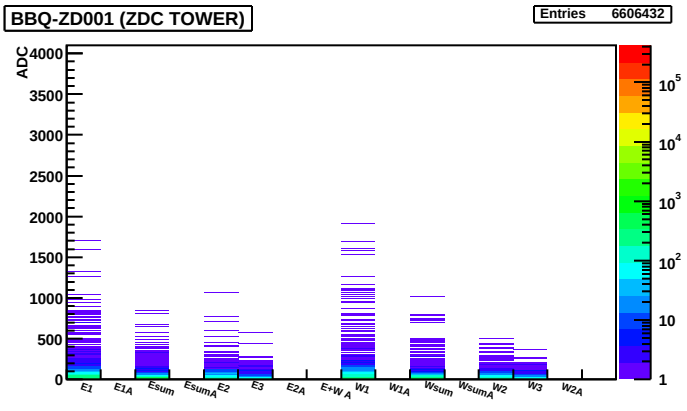

BBQ-BB001 (BBC east small tiles TAC)
Entries 6606432
TAC
QT Input Channel

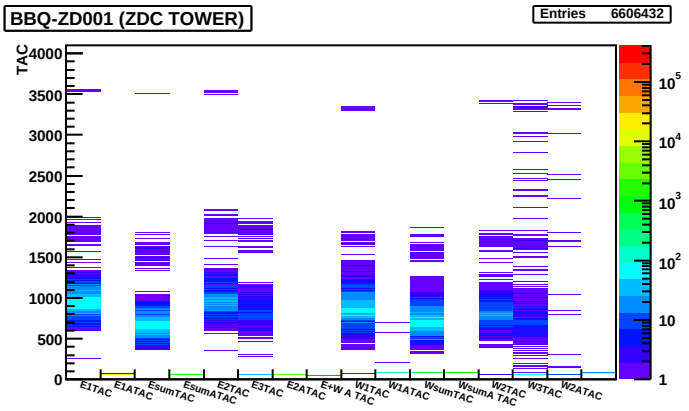

BBQ-BB002 (BBC west small tiles ADC)
Entries 6606432
ADC
QT Input Channel

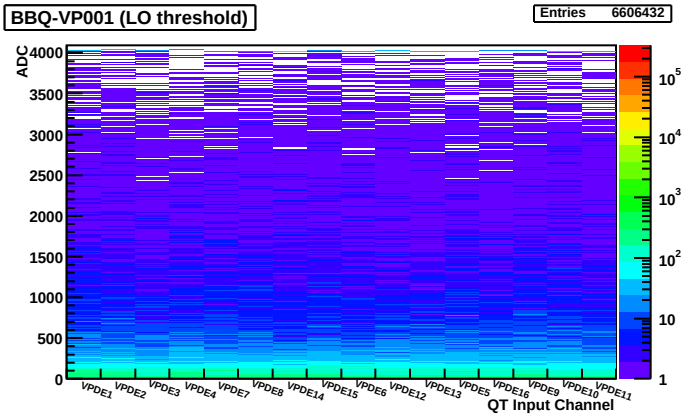

BBQ-BB002 (BBC west small tiles TAC)
Entries 6606432
TAC
QT Input Channel

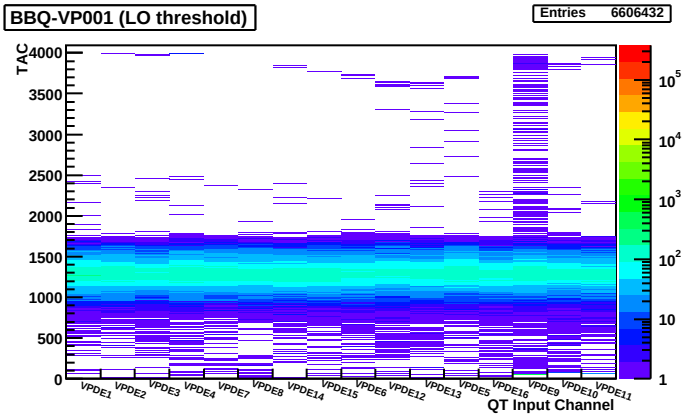

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6606432
ADC
QT Input Channel

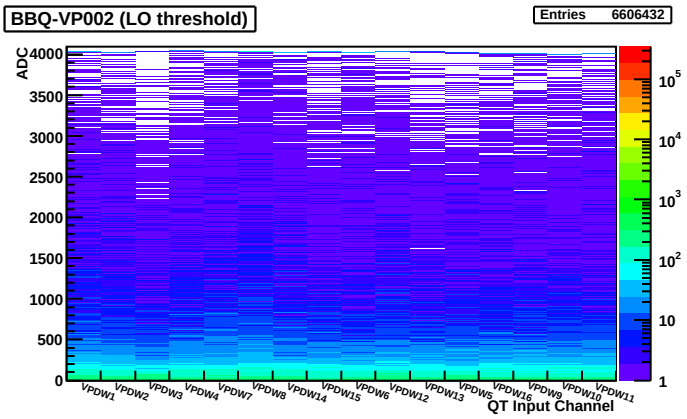

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6606432
TAC
QT Input Channel

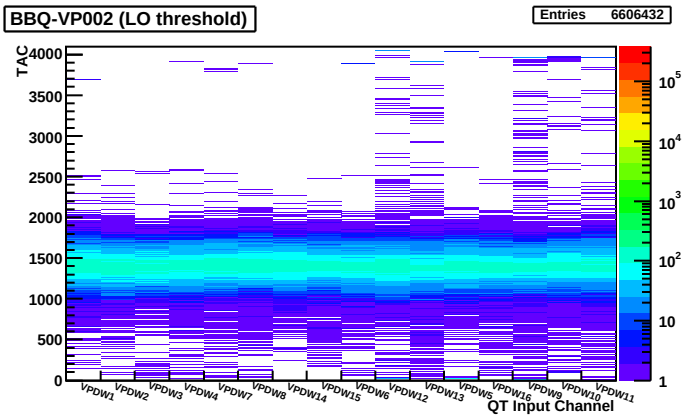

BBQ-ZD001 (ZDC TOWER)
Entries 6606432
ADC

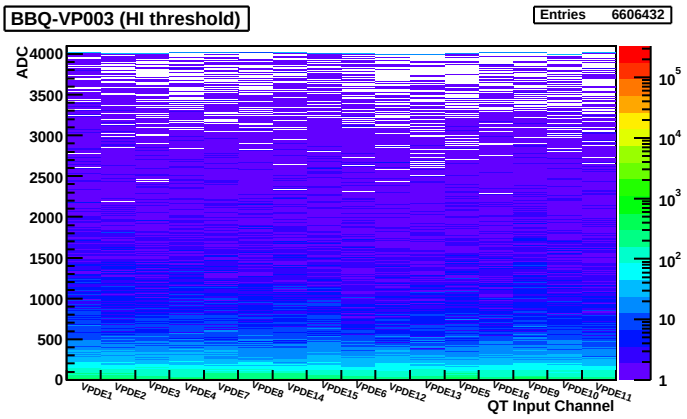

BBQ-ZD001 (ZDC TOWER)
Entries 6606432
TAC

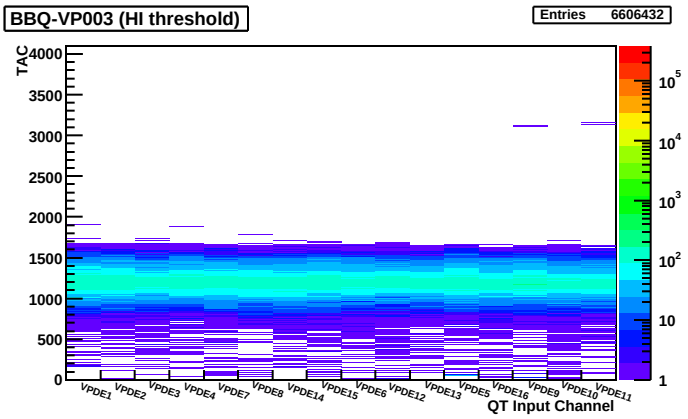

BBQ-VP001 (LO threshold)
Entries 6606432
ADC
QT Input Channel

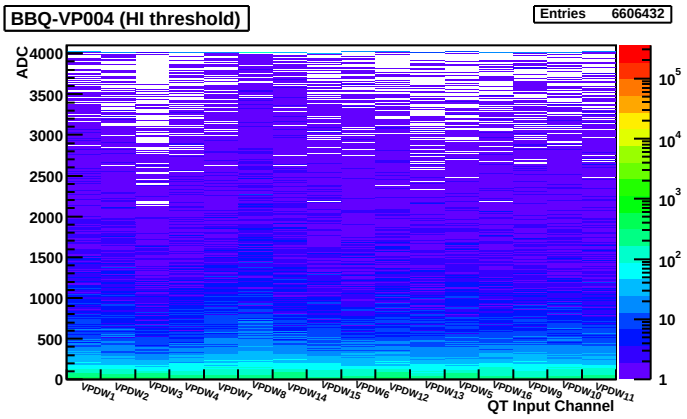

BBQ-VP001 (LO threshold)
Entries 6606432
TAC
QT Input Channel

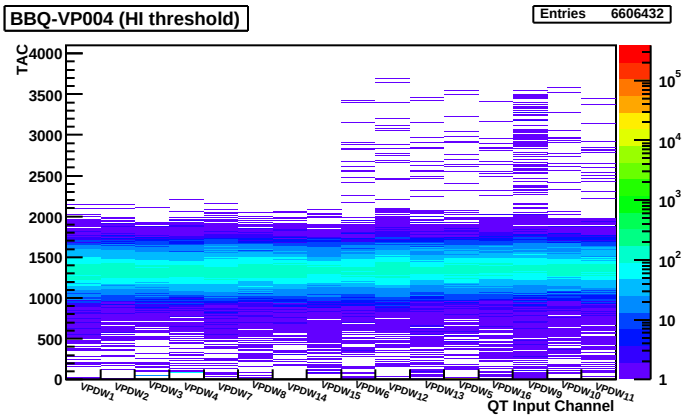

BBQ-VP002 (LO threshold)
Entries 6606432
ADC
QT Input Channel

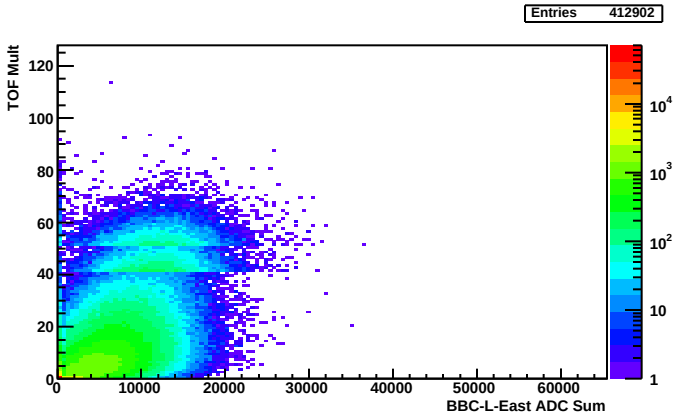

BBQ-VP002 (LO threshold)
Entries 6606432
TAC
QT Input Channel

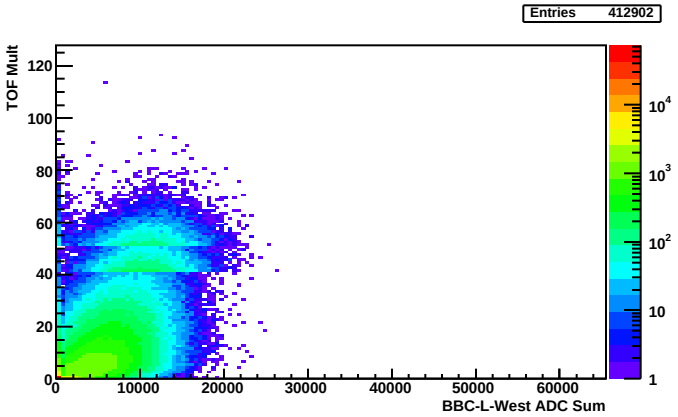

BBQ-VP003 (HI threshold)
Entries 6606432
ADC
QT Input Channel

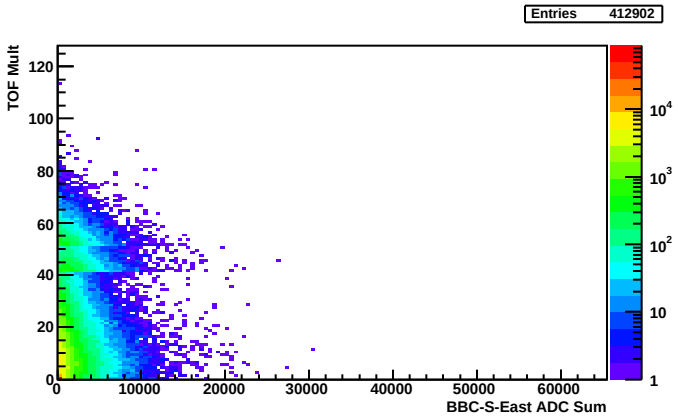

BBQ-VP003 (HI threshold)
Entries 6606432
TAC
QT Input Channel

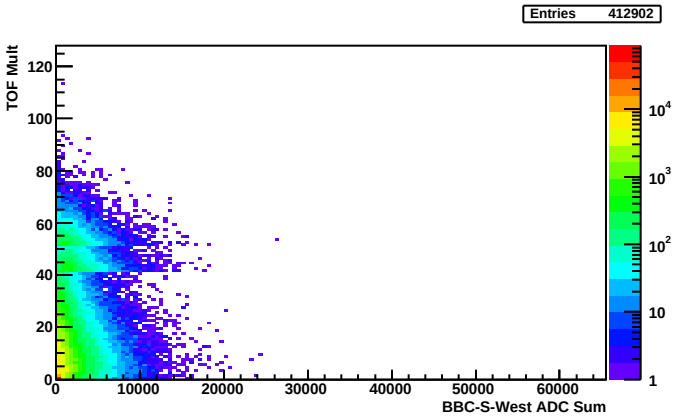

BBQ-VP004 (HI threshold)
Entries 6606432
ADC
QT Input Channel

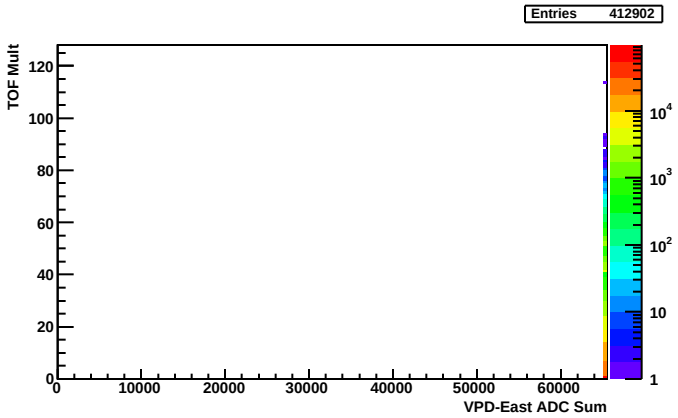

BBQ-VP004 (HI threshold)
Entries 6606432
TAC
QT Input Channel

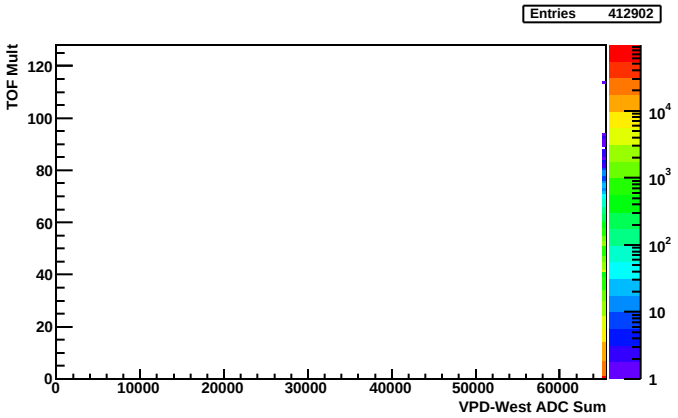

Entries 412902
TOF Mult
BBC-L-East ADC Sum

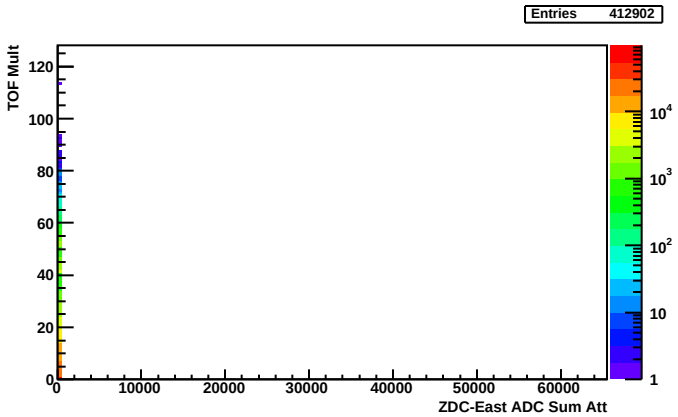

Entries 412902
TOF Mult
BBC-L-West ADC Sum

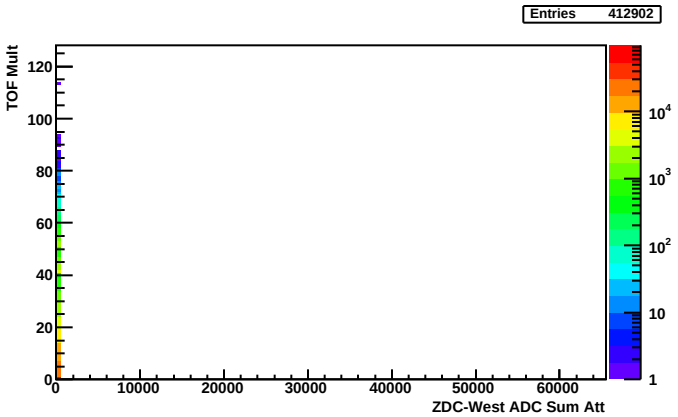

Entries 412902
TOF Mult
BBC-S-East ADC Sum

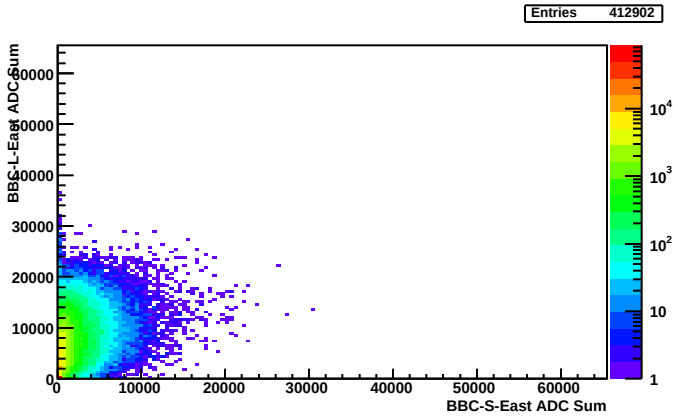

Entries 412902
TOF Mult
BBC-S-West ADC Sum

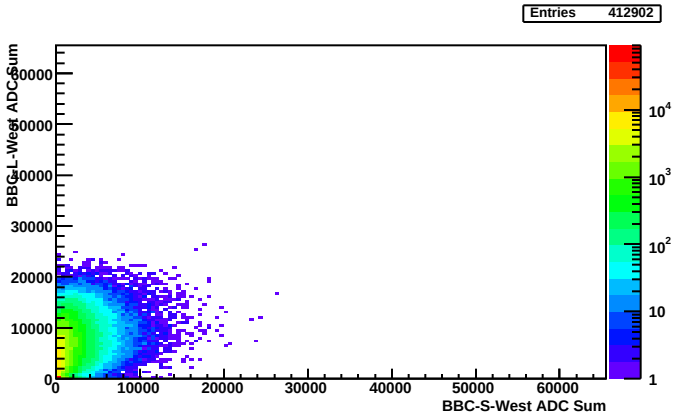

Entries 412902
TOF Mult
VPD-East ADC Sum

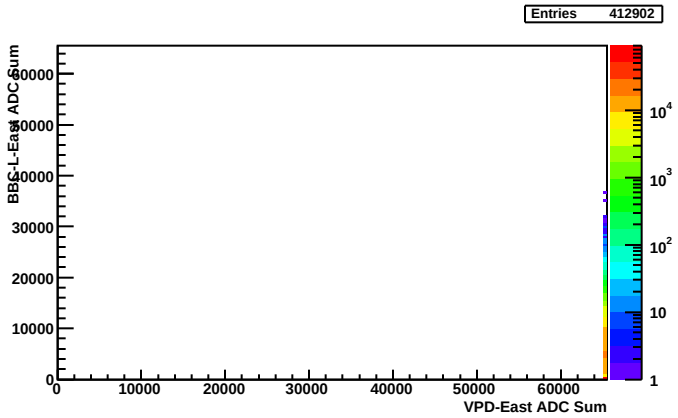

Entries 412902
TOF Mult
VPD-West ADC Sum

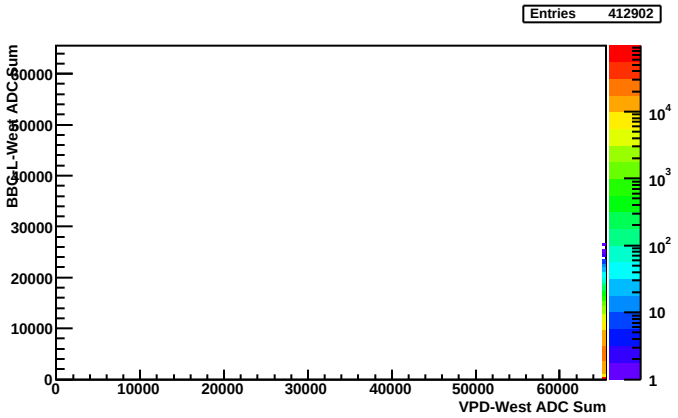

Entries 412902
TOF Mult
ZDC-East ADC Sum Att

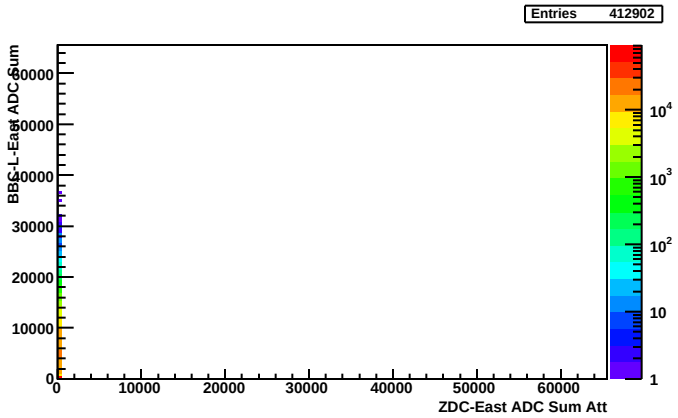

Entries 412902
TOF Mult
ZDC-West ADC Sum Att

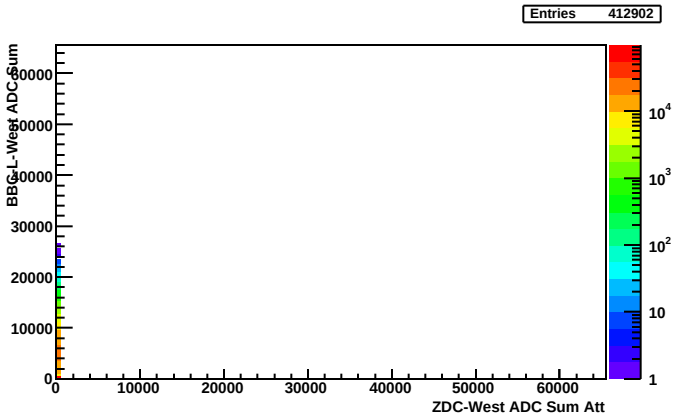

Entries 412902
BBC-L-East ADC Sum
BBC-S-East ADC Sum

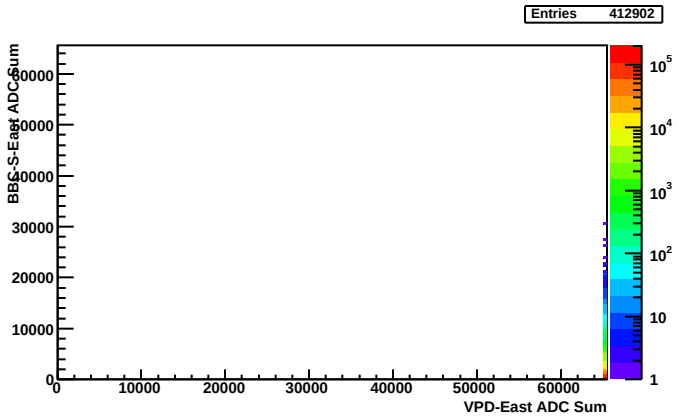

Entries 412902
BBC-L-West ADC Sum
BBC-S-West ADC Sum

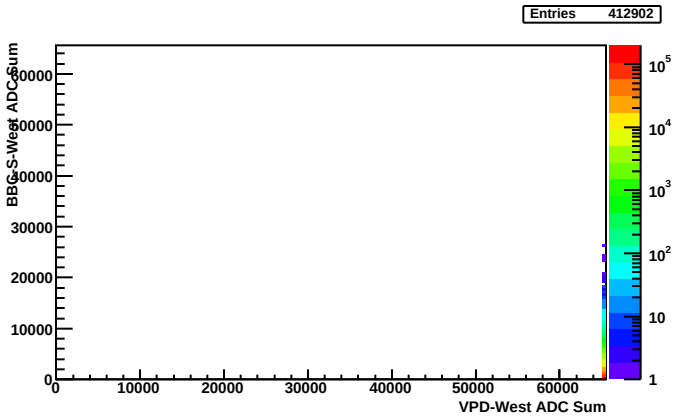

Entries 412902
BBC-L-East ADC Sum
VPD-East ADC Sum

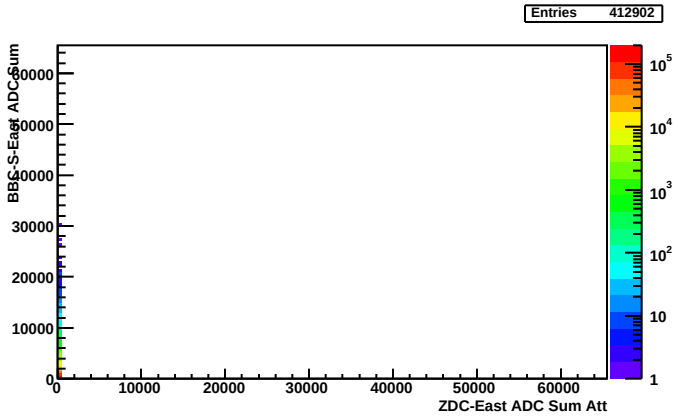

Entries 412902
BBC-L-West ADC Sum
VPD-West ADC Sum

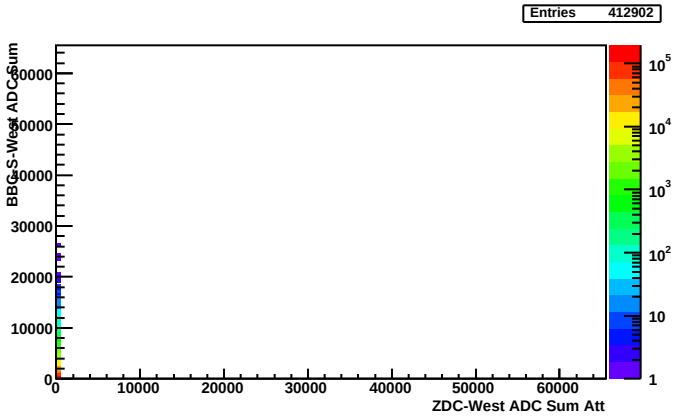

Entries 412902
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

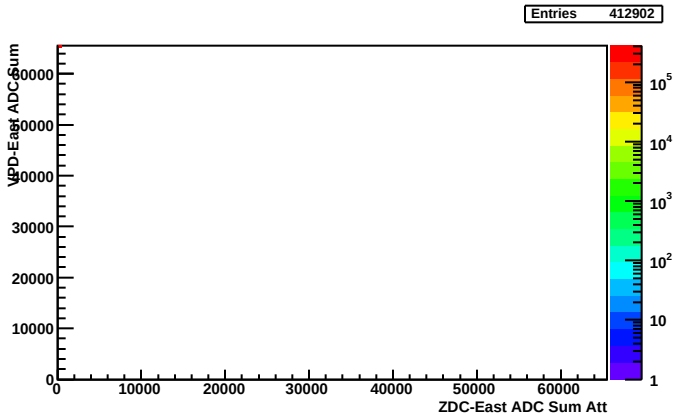

Entries 412902
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

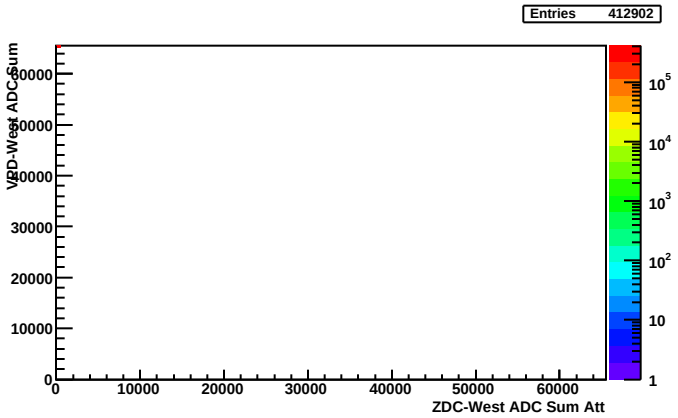

Entries 412902
BBC-S-East ADC Sum
VPD-East ADC Sum

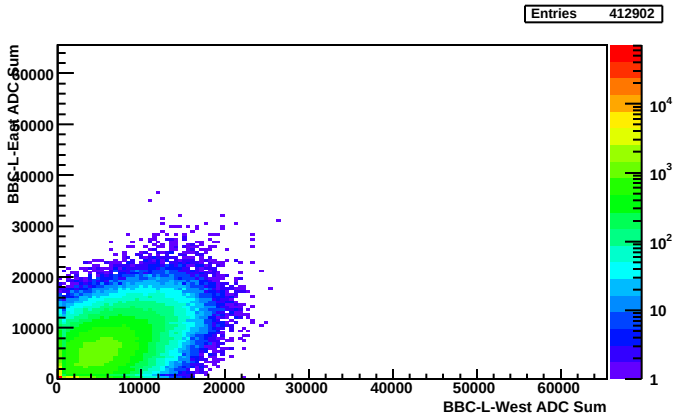

Entries 412902
BBC-S-West ADC Sum
VPD-West ADC Sum

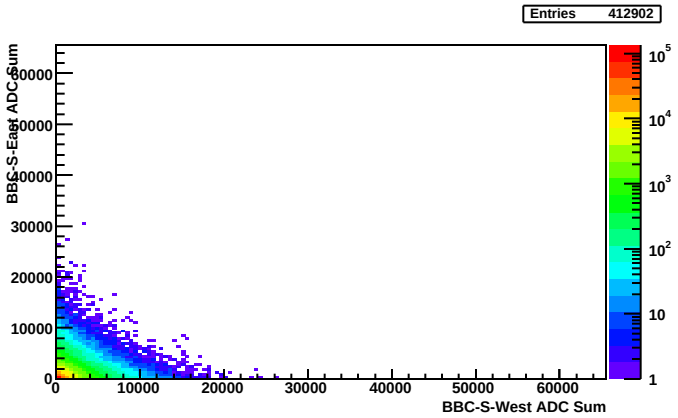

Entries 412902
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

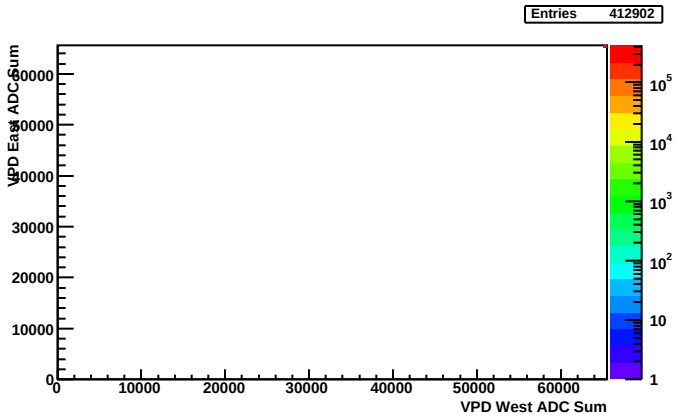

Entries 412902
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

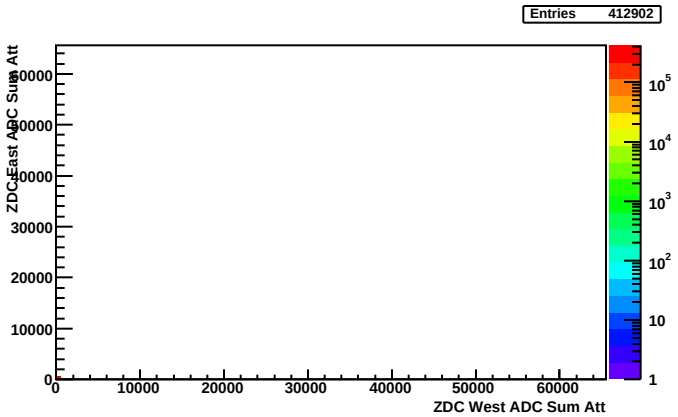

Entries 412902
VPD-East ADC Sum
ZDC-East ADC Sum Att

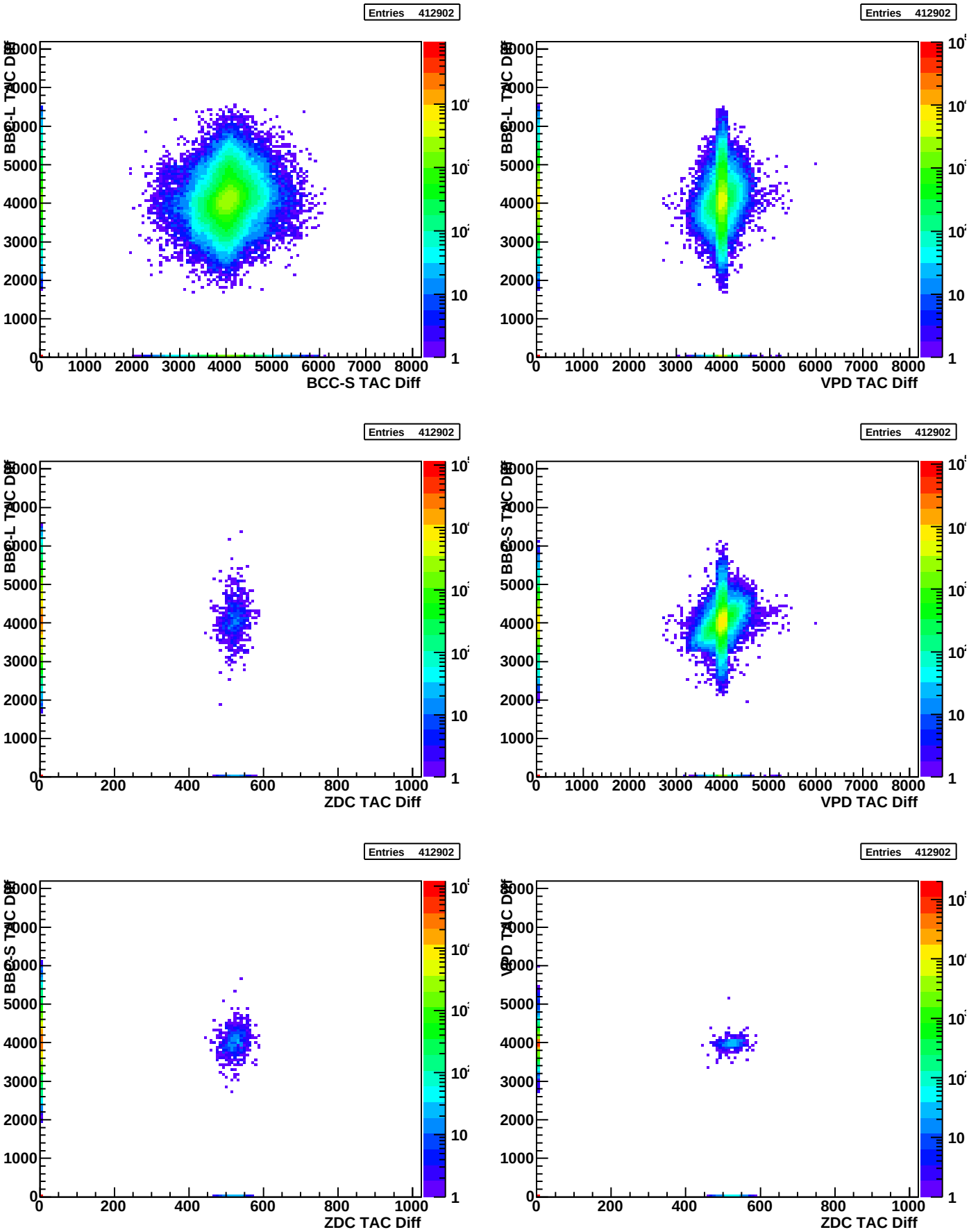

Entries 412902
VPD-West ADC Sum
ZDC-West ADC Sum Att

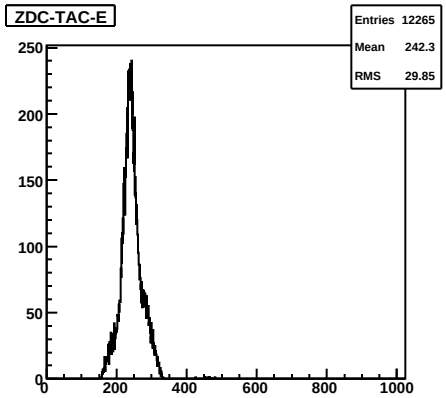

Entries 412902
BBC-L-East ADC Sum
BBC-L-West ADC Sum

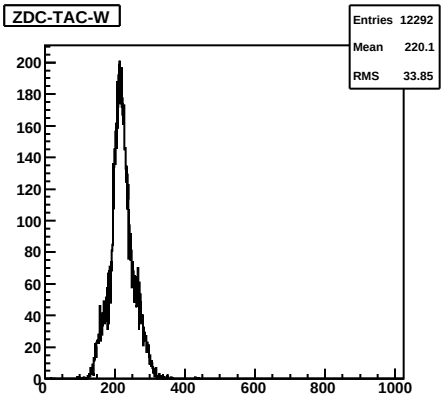

Entries 412902
BBC-S-East ADC Sum
BBC-S-West ADC Sum

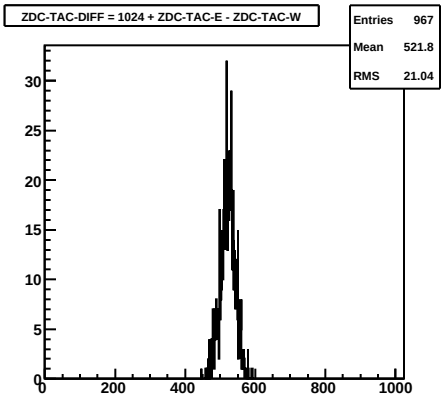

Entries 412902
VPD East ADC Sum
VPD West ADC Sum

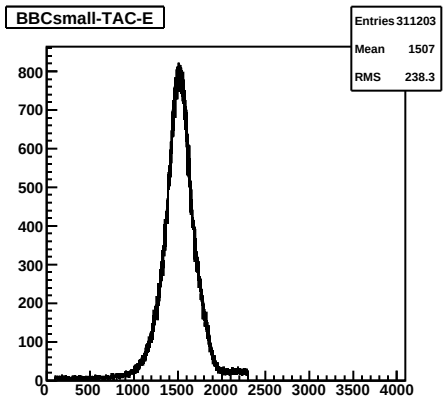

Entries 412902
ZDC East ADC Sum Att
ZDC West ADC Sum Att

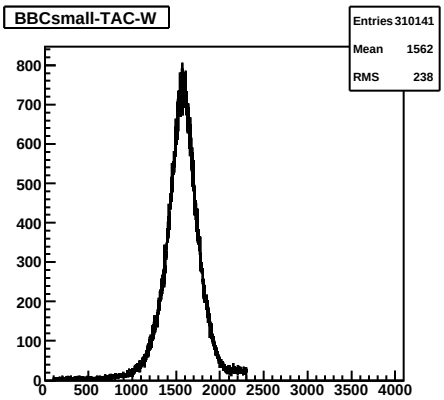

Entries 412902
BBC-L TAC Diff
BCC-S TAC Diff
Entries 412902
BBC-L TAC Diff
VPD TAC Diff
Entries 412902
BBC-L TAC Diff
ZDC TAC Diff
Entries 412902
BBC-S TAC Diff
VPD TAC Diff
Entries 412902
BBC-S TAC Diff
ZDC TAC Diff
Entries 412902
VPD TAC Diff
ZDC TAC Diff

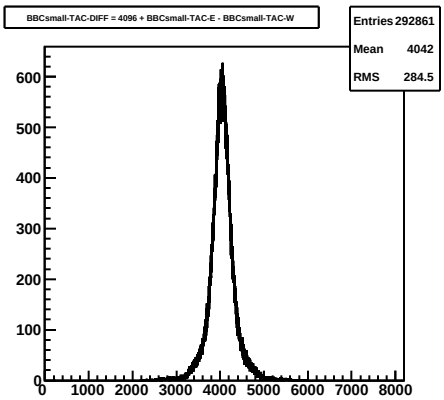

ZDC-TAC-E
Entries 12265
Mean 242.3
RMS 29.85

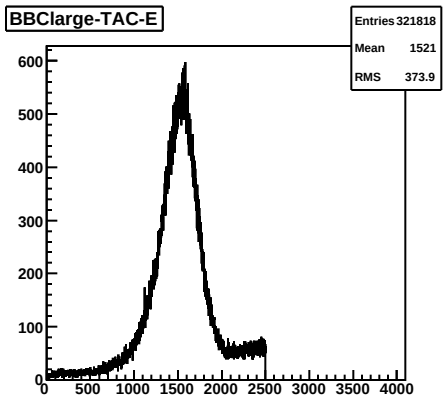

ZDC-TAC-W
Entries 12292
Mean 220.1
RMS 33.85

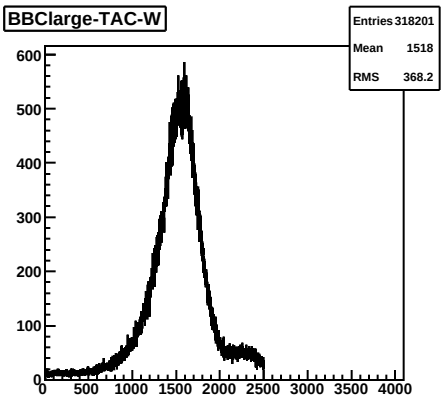

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 967
Mean 521.8
RMS 21.04

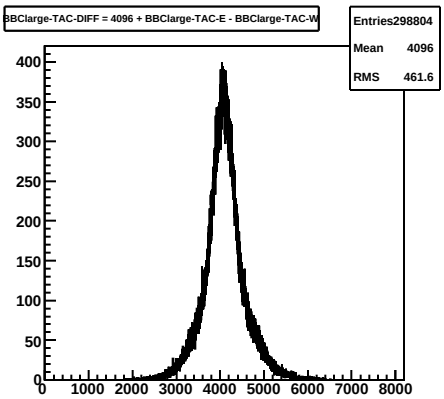

BBCsmall-TAC-E
Entries 311203
Mean 1507
RMS 238.3

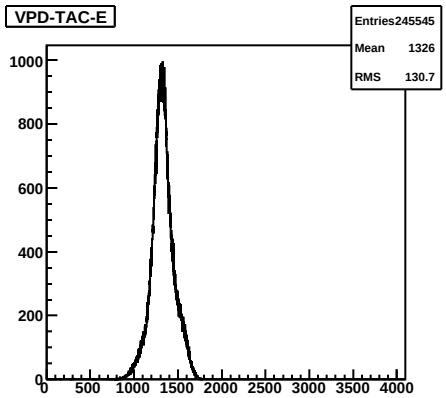

BBCsmall-TAC-W
Entries 310141
Mean 1562
RMS 238

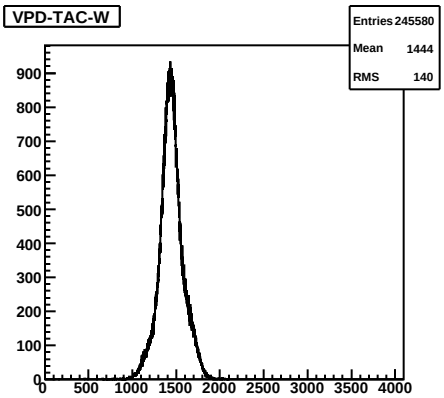

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 292861
Mean 4042
RMS 284.5

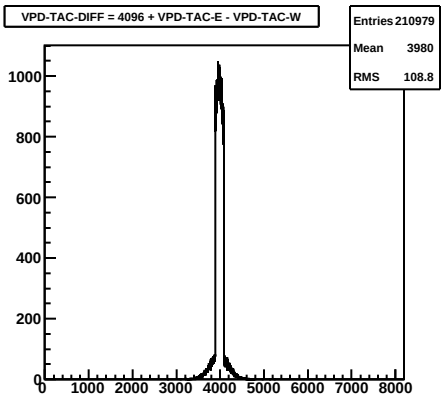

BBClarge-TAC-E
Entries 321818
Mean 1521
RMS 373.9

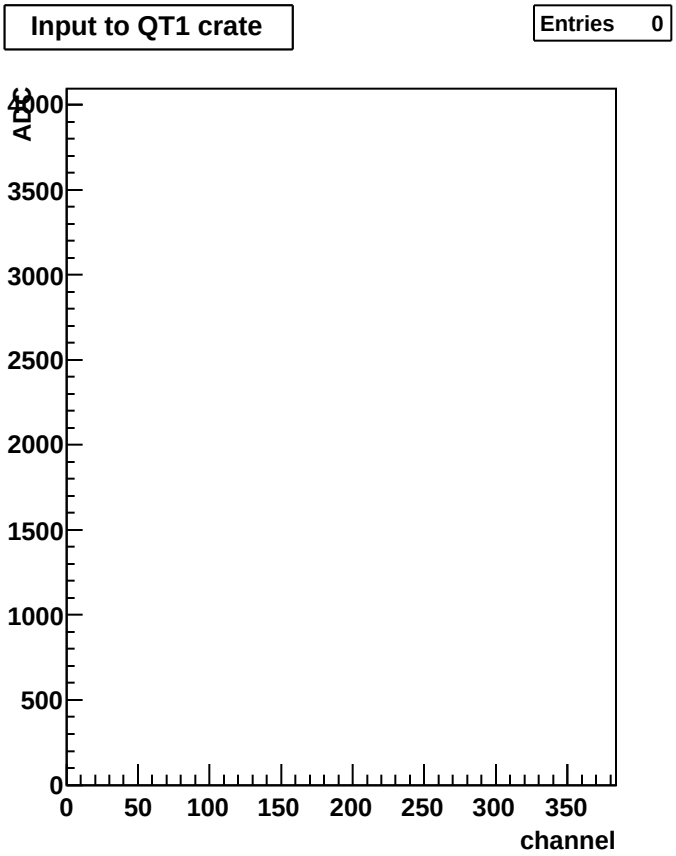

BBClarge-TAC-W
Entries 318201
Mean 1518
RMS 368.2

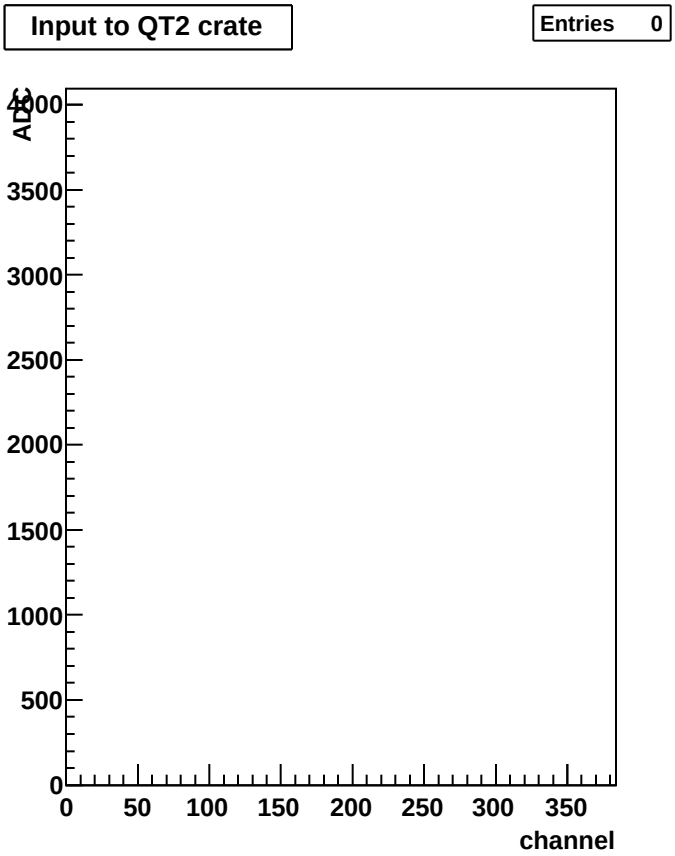

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 298804
Mean 4096
RMS 461.6

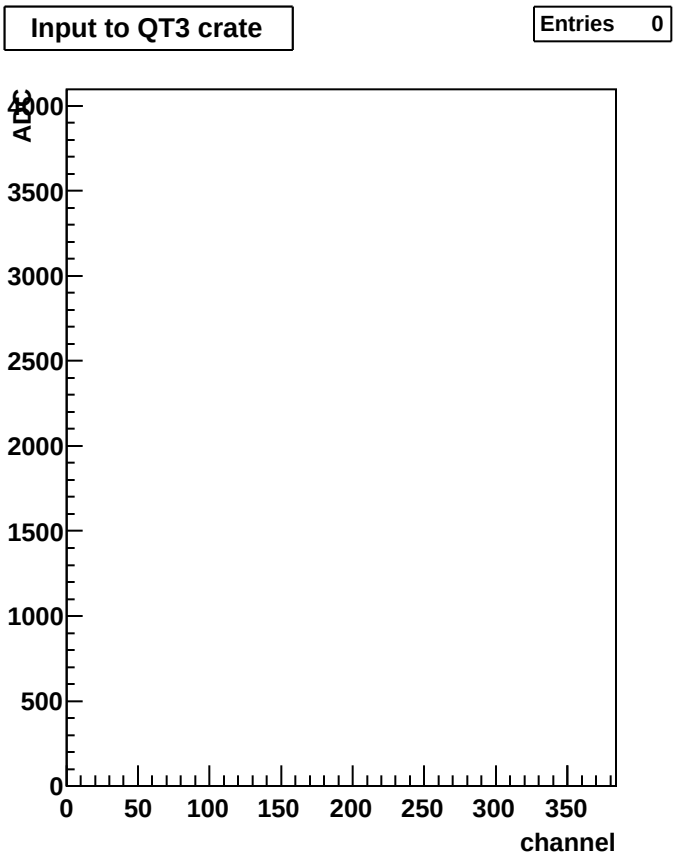

VPD-TAC-E
Entries 245545
Mean 1326
RMS 130.7

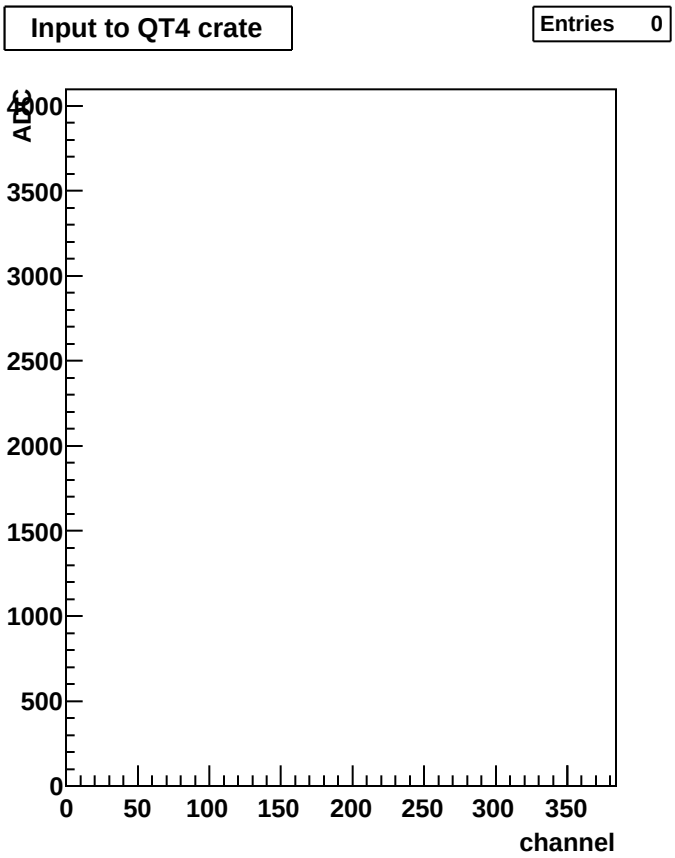

VPD-TAC-W
Entries 245580
Mean 1444
RMS 140

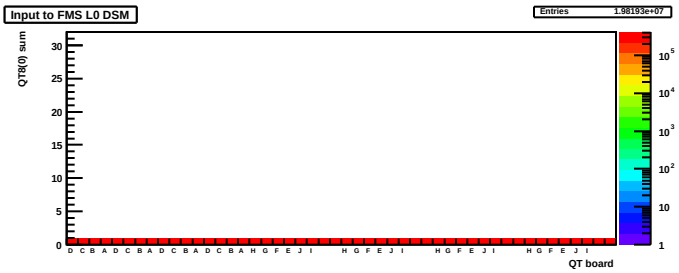

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 210979
Mean 3980
RMS 108.8

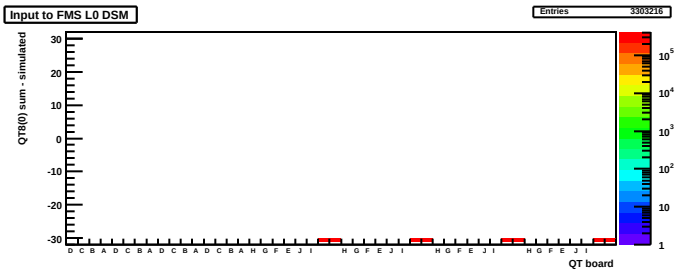

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

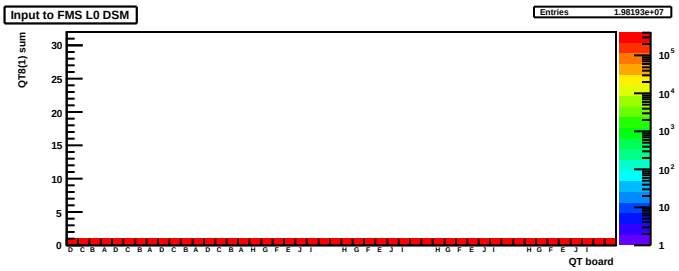

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

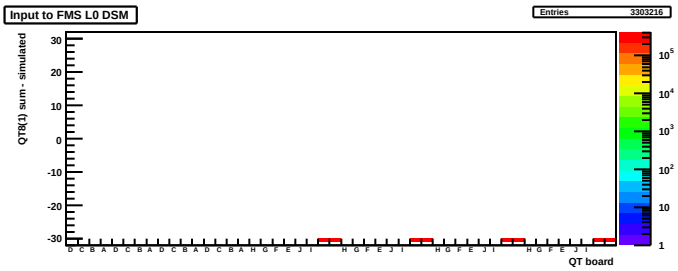

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

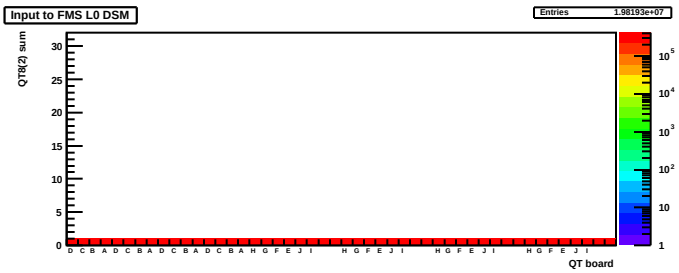

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

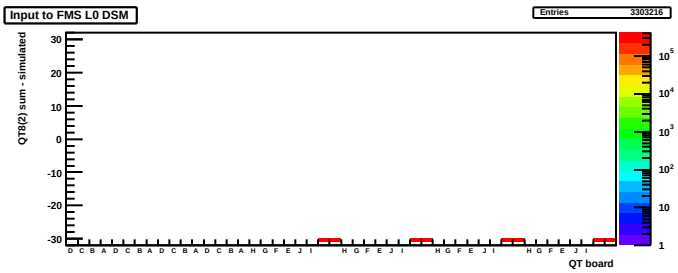

Input to FMS L0 DSM
Entries 1.98193e+07
QT8(0) sum
QT board

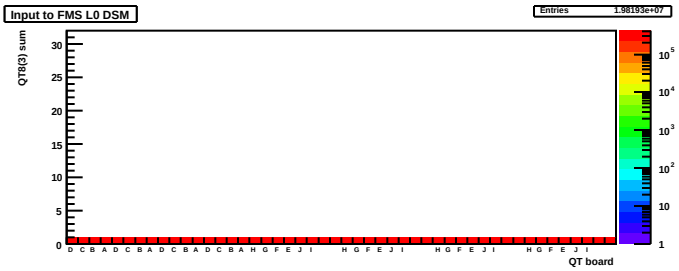

Input to FMS L0 DSM
Entries 3303216
QT8(0) sum - simulated
QT board

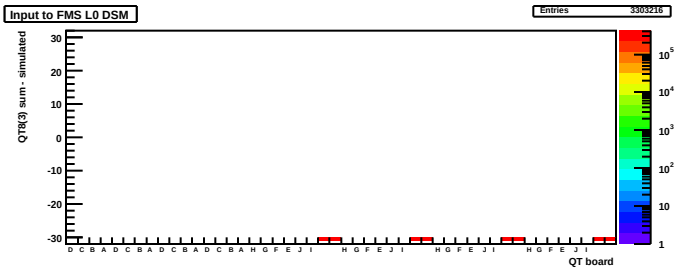

Input to FMS L0 DSM
Entries 1.98193e+07
QT8(1) sum
QT board

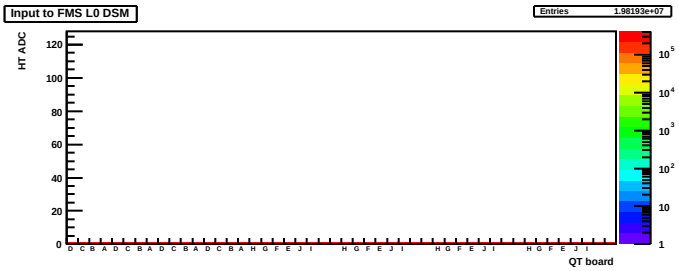

Input to FMS L0 DSM
Entries 3303216
QT8(1) sum - simulated
QT board

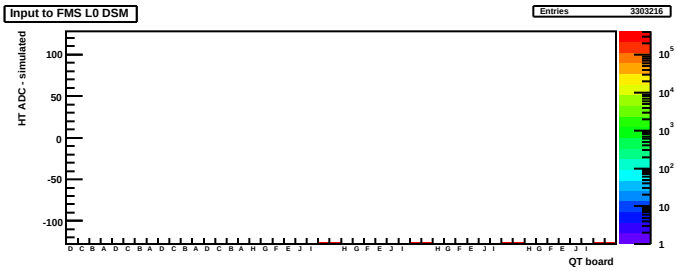

Input to FMS L0 DSM
Entries 1.98193e+07
QT8(2) sum
QT board

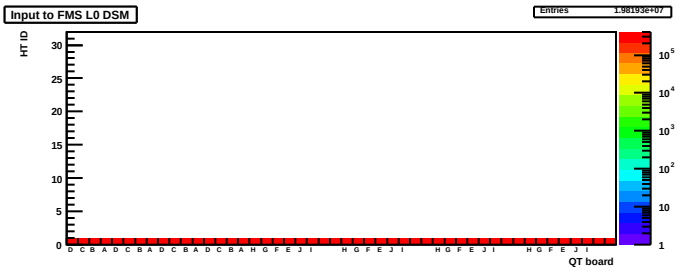

Input to FMS L0 DSM
Entries 3303216
QT8(2) sum - simulated
QT board

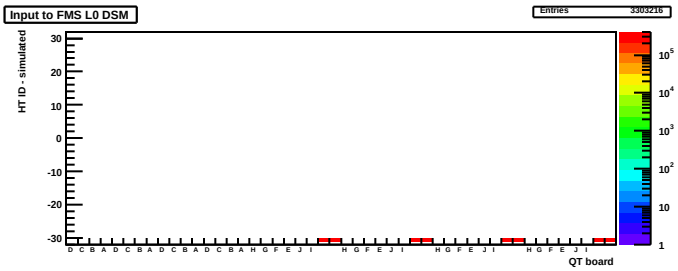

Input to FMS L0 DSM
Entries 1.98193e+07
QT8(3) sum
QT board

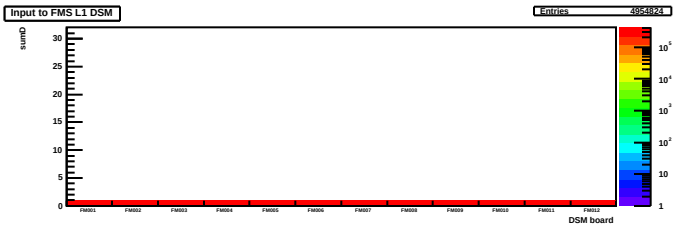

Input to FMS L0 DSM
Entries 3303216
QT8(3) sum - simulated
QT board

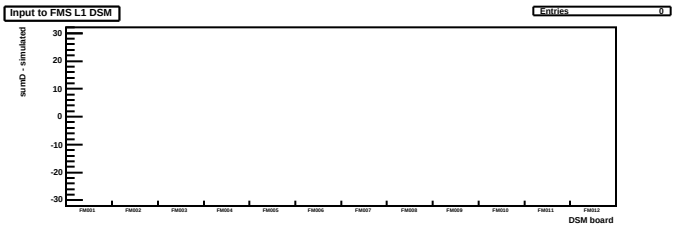

Input to FMS L0 DSM
Entries 1.98193e+07
HT ADC
QT board

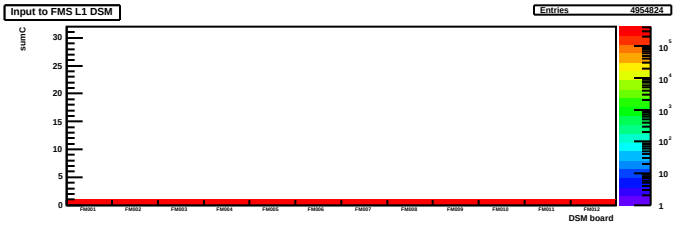

Input to FMS L0 DSM
Entries 3303216
HT ADC - simulated
QT board

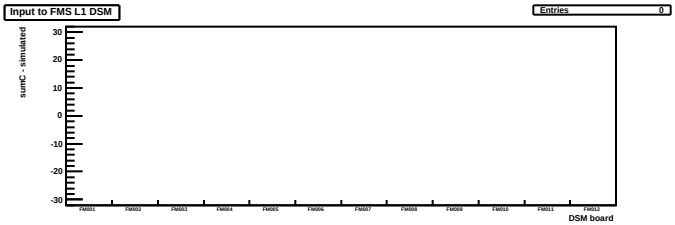

Input to FMS L0 DSM
Entries 1.98193e+07
HT ID
QT board

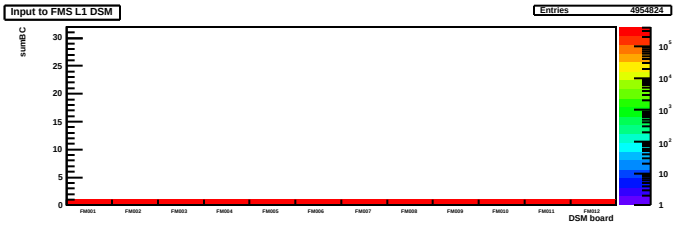

Input to FMS L0 DSM
Entries 3303216
HT ID - simulated
QT board

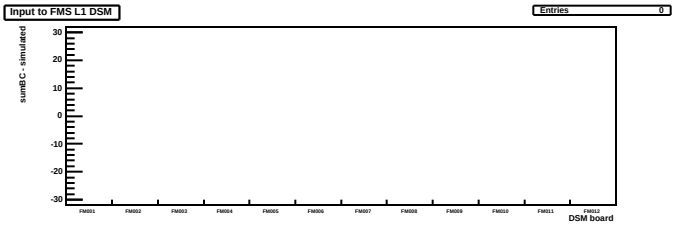

Input to FMS L1 DSM
Entries 4954824
sumD
DSM board

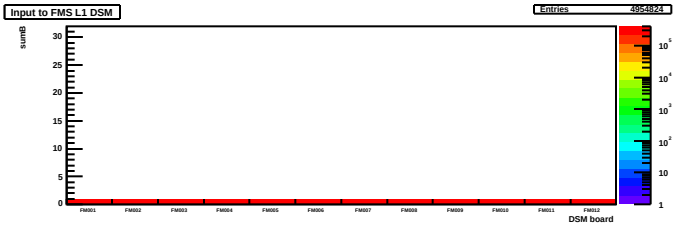

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

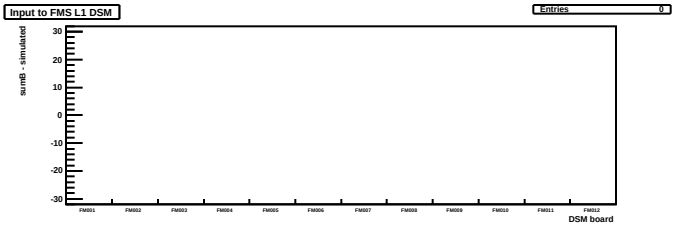

Input to FMS L1 DSM
Entries 4954824
sumC
DSM board

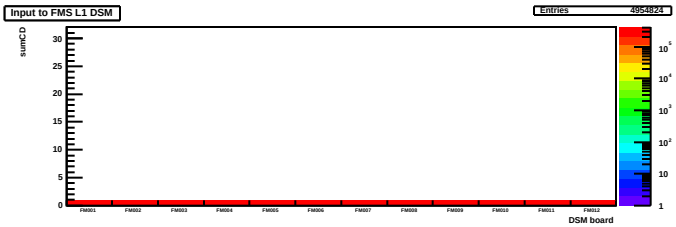

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

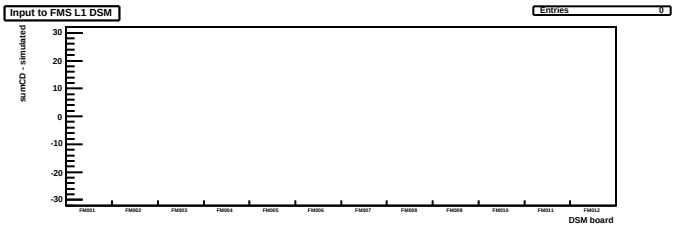

Input to FMS L1 DSM
Entries 4954824
sumBC
DSM board

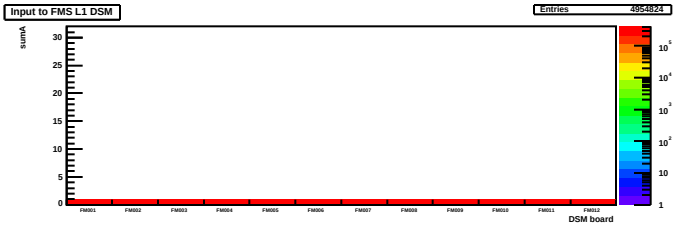

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

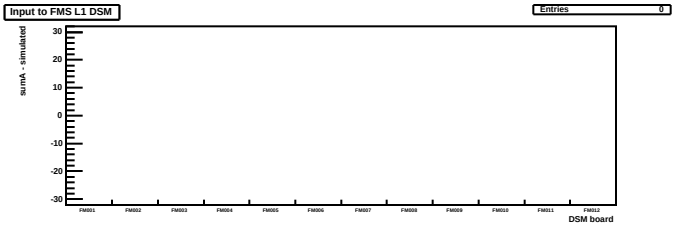

Input to FMS L1 DSM
Entries 4954824
sumB
DSM board

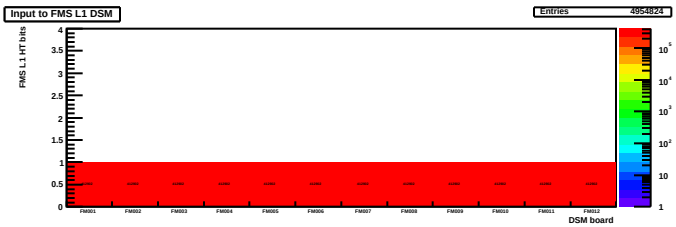

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

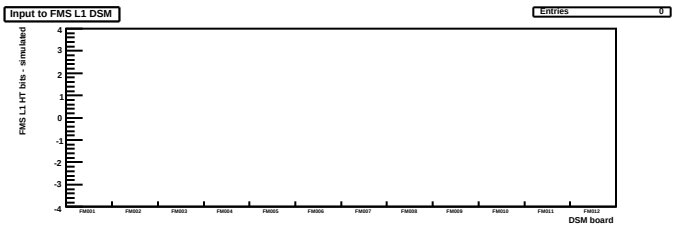

Input to FMS L1 DSM
Entries 4954824
sumCD
DSM board

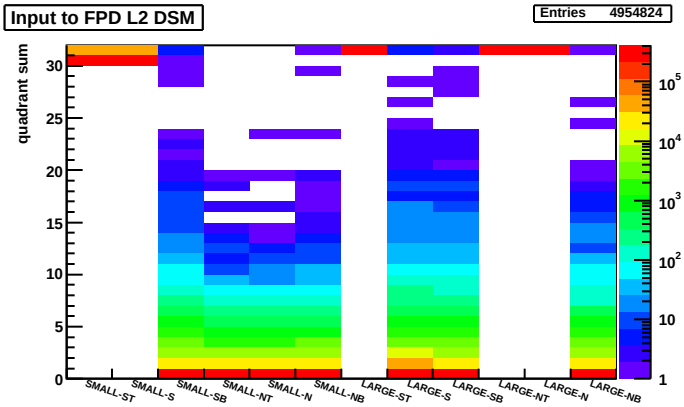

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

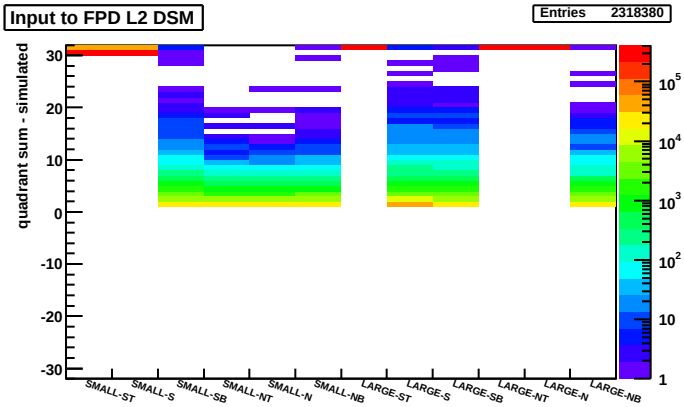

Input to FMS L1 DSM
Entries 4954824
sumA
DSM board

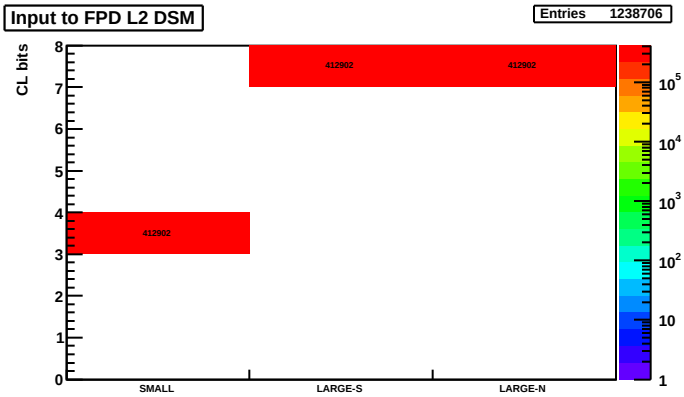

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

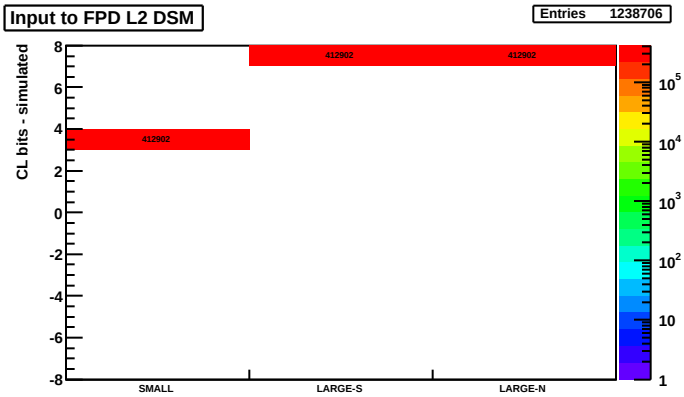

Input to FMS L1 DSM
Entries 4954824
FMS L1 HT bits
DSM board

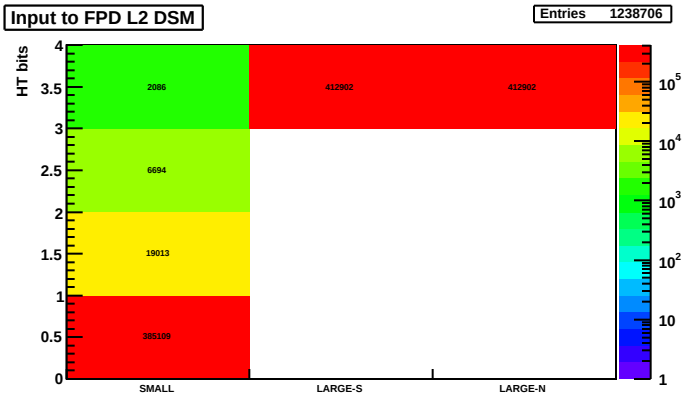

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

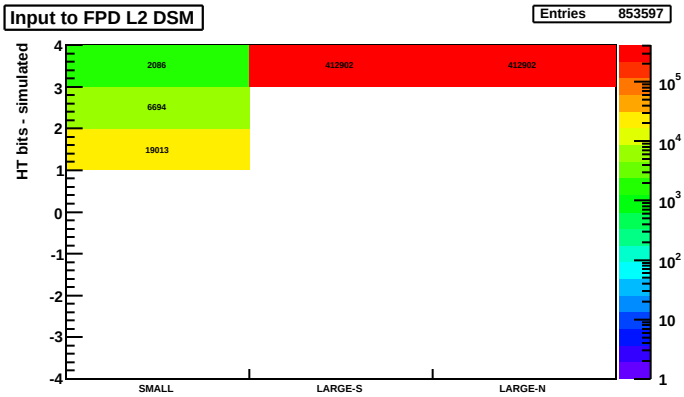

Input to FPD L2 DSM
Entries 4954824
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

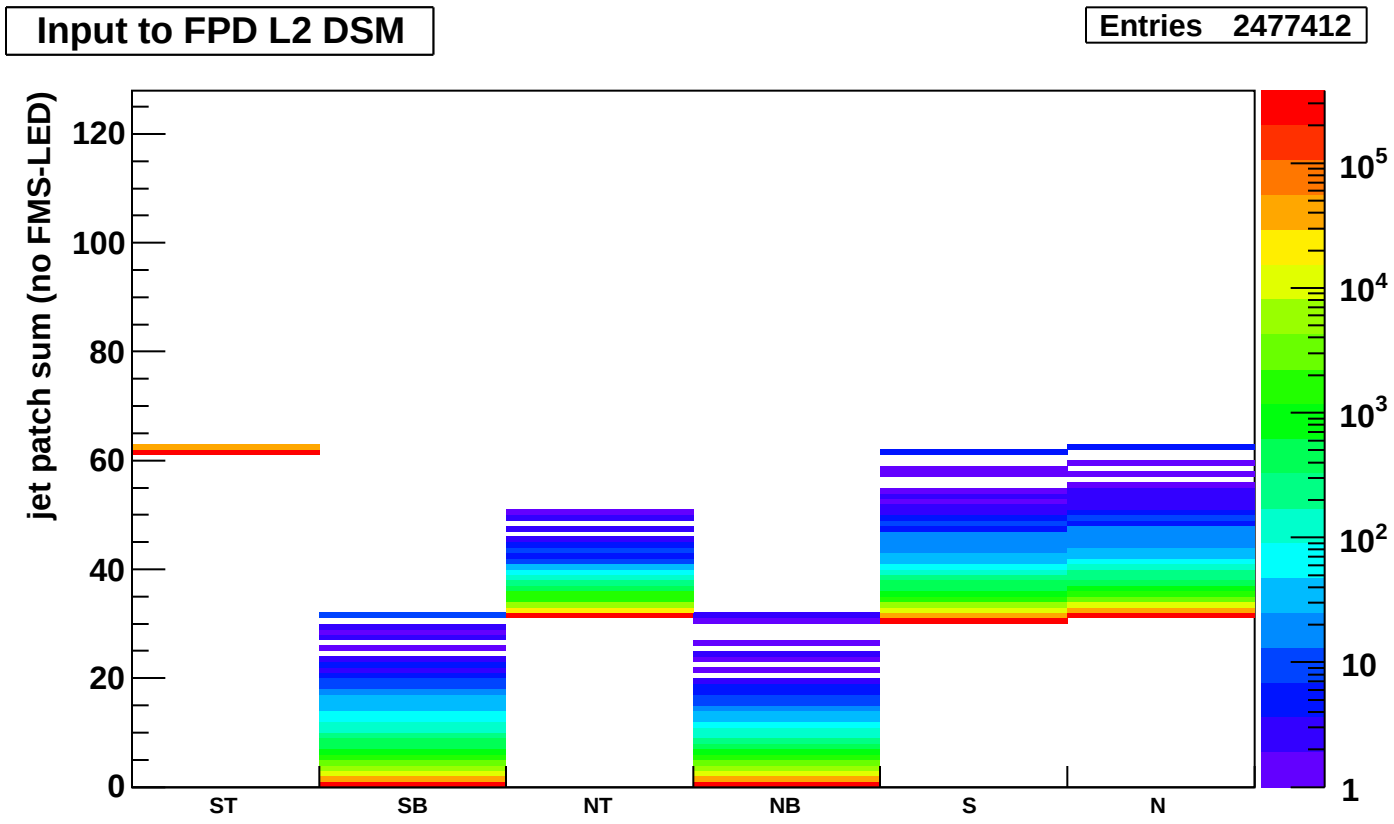

Input to FPD L2 DSM
Entries 2318380
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

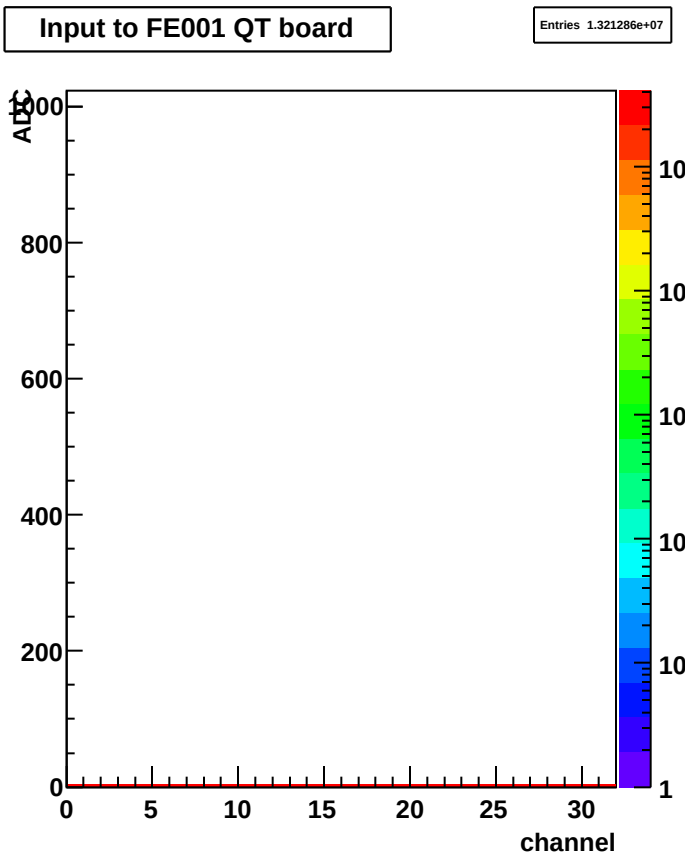

Input to FPD L2 DSM
Entries 1238706
CL bits
412902
412902
412902
SMALL
LARGE-S
LARGE-N

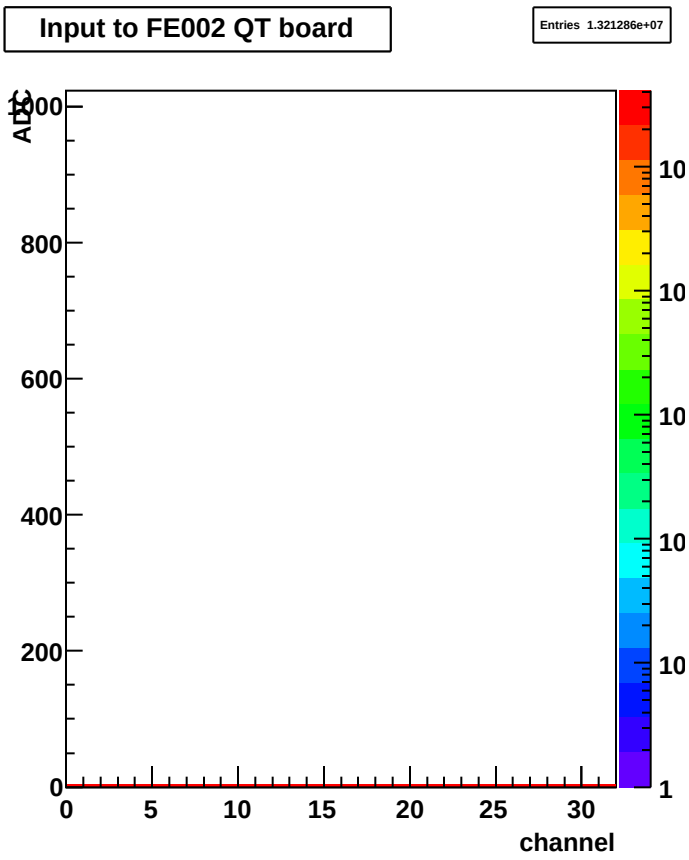

Input to FPD L2 DSM
Entries 1238706
CL bits - simulated
412902
412902
412902
SMALL
LARGE-S
LARGE-N

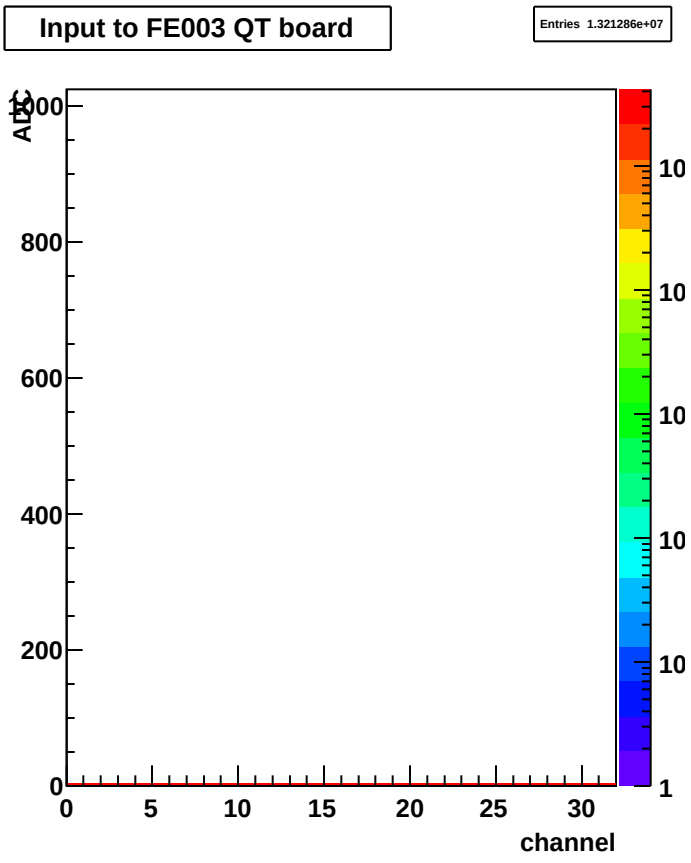

Input to FPD L2 DSM
Entries 1238706
HT bits
2086
6694
19013
385109
412902
412902
SMALL
LARGE-S
LARGE-N

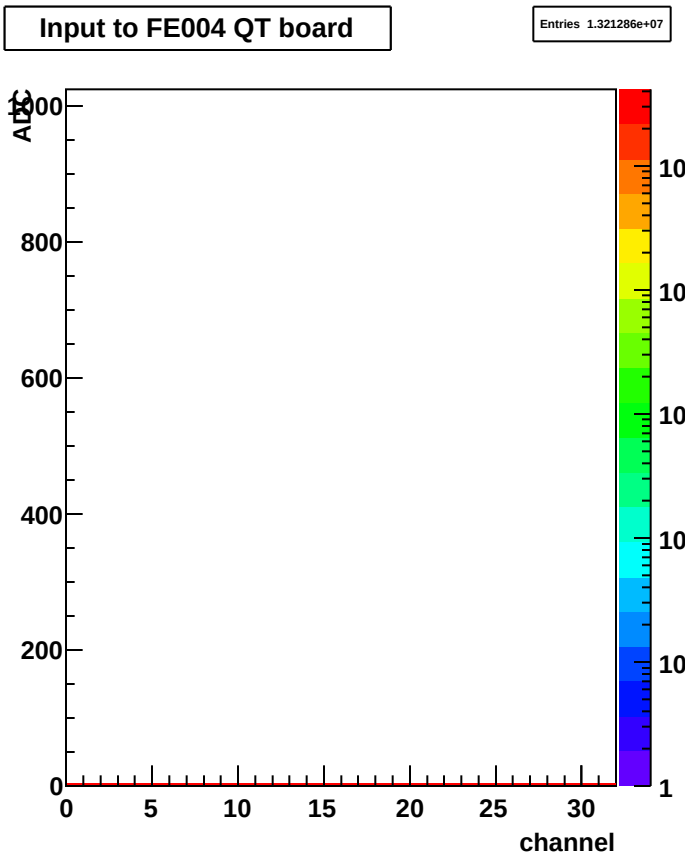

Input to FPD L2 DSM
Entries 853597
HT bits - simulated
2086
6694
19013
412902
412902
SMALL
LARGE-S
LARGE-N

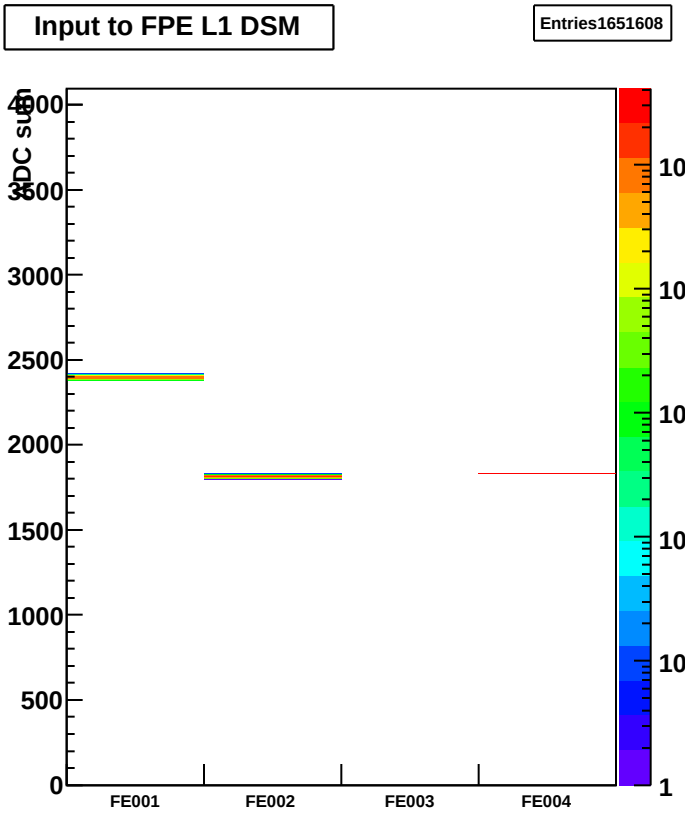

Input to FPD L2 DSM
Entries 2477412
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

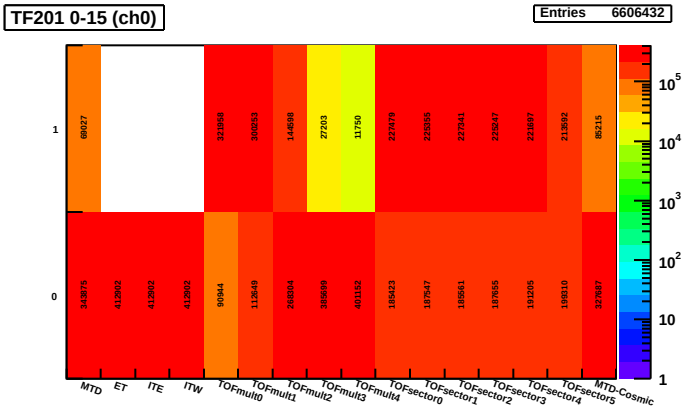

Input to FE001 QT board
Entries 1.321286e+07
ADC
channel

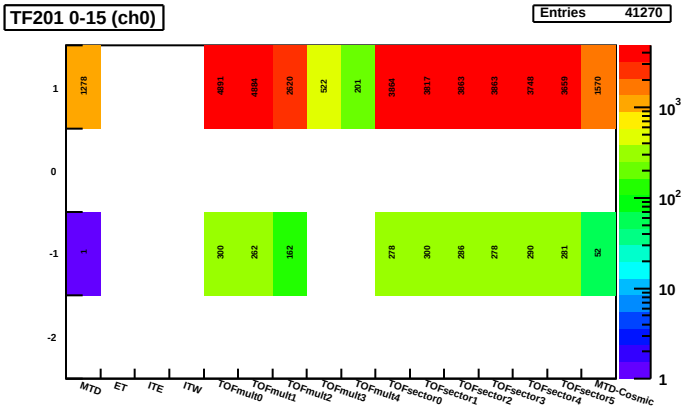

Input to FE002 QT board
Entries 1.321286e+07
ADC
channel

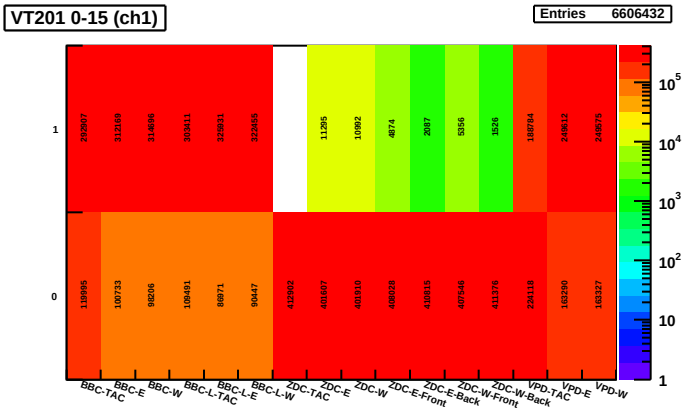

Input to FE003 QT board
Entries 1.321286e+07
ADC
channel

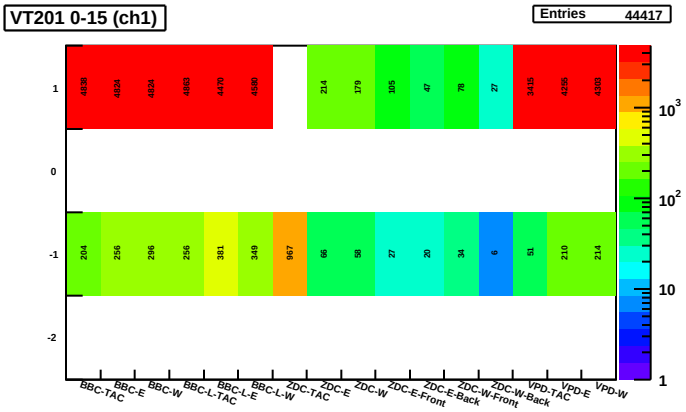

Input to FE004 QT board
Entries 1.321286e+07
ADC
channel


Input to FPE L1 DSM
Entries1651608
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 6606432
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 41270
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 6606432
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 44417
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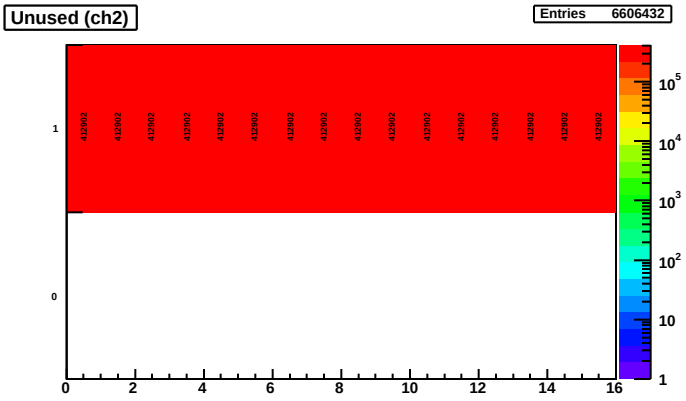
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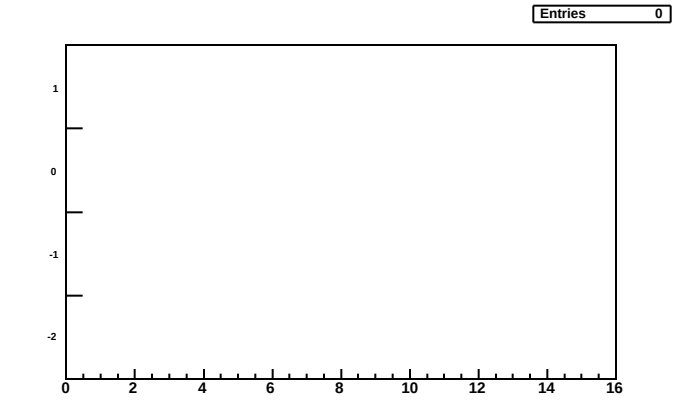
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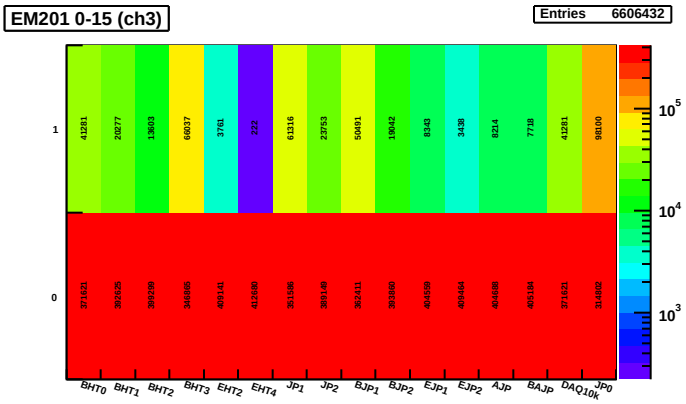
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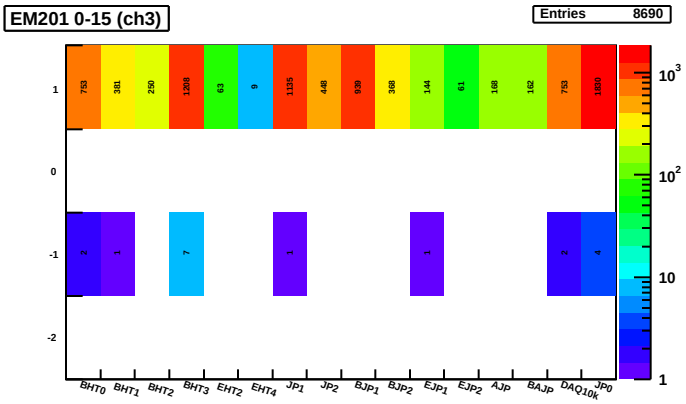
EM201 0-15 (ch3)
Entries 8690
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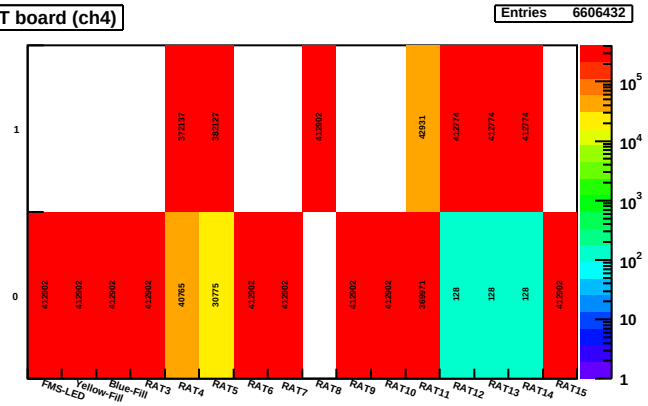
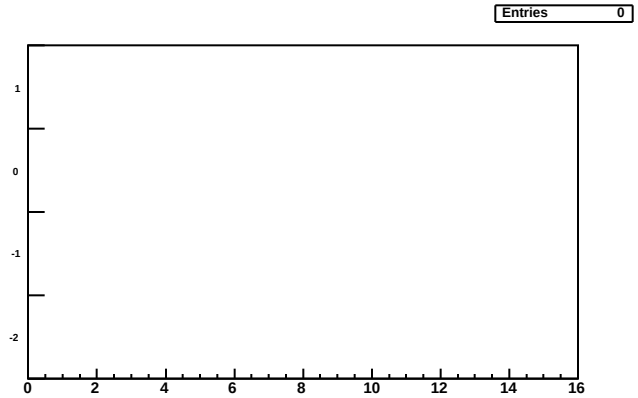
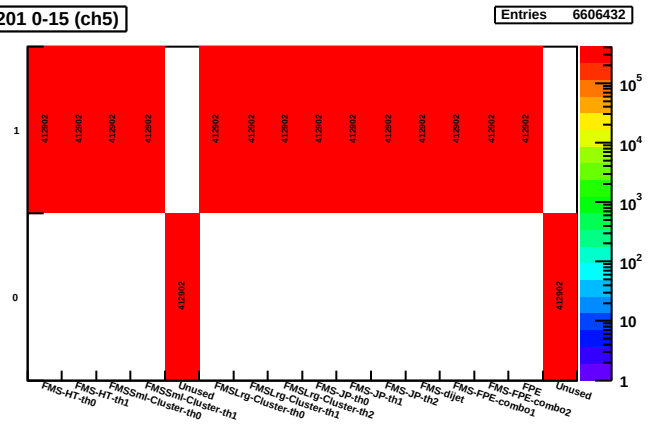
RAT board (ch4)

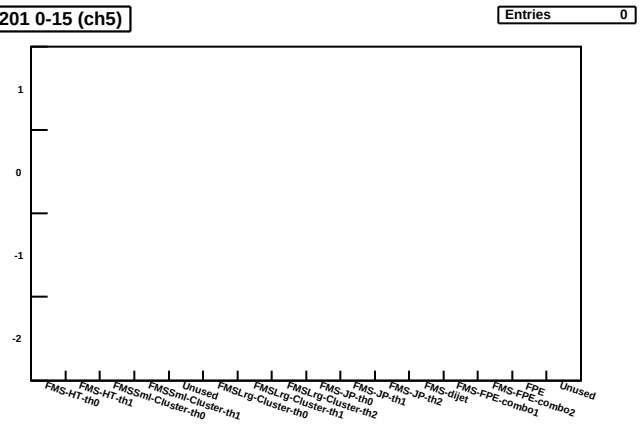




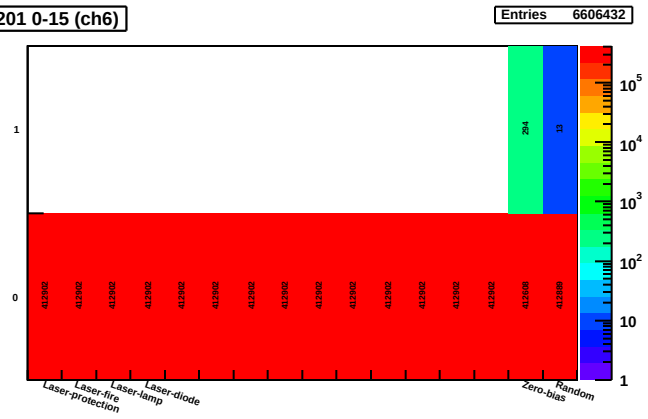
FP201 0-15 (ch5)

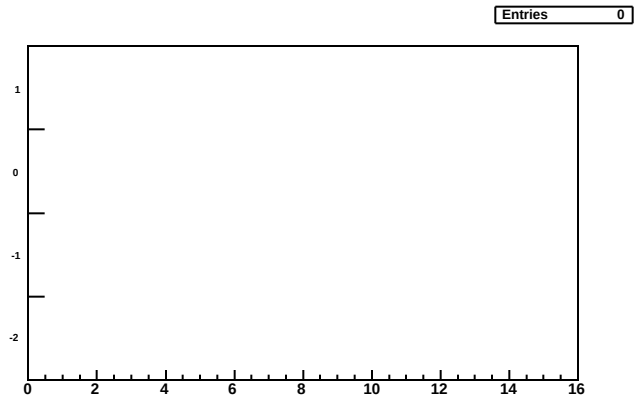
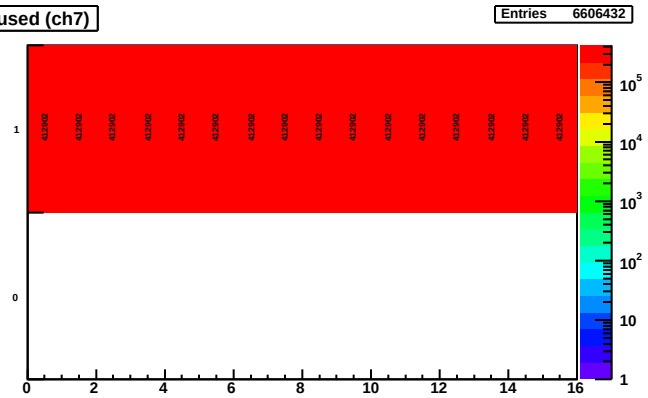
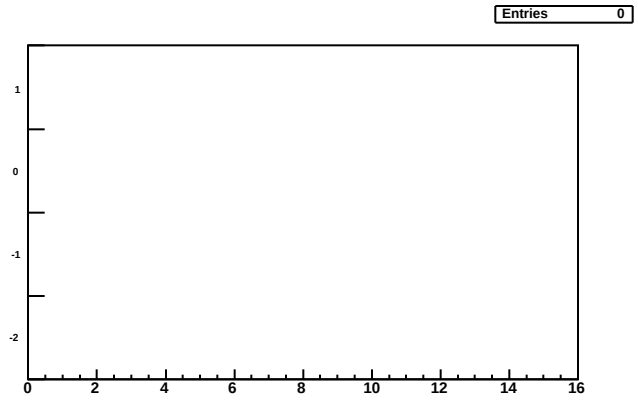


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)