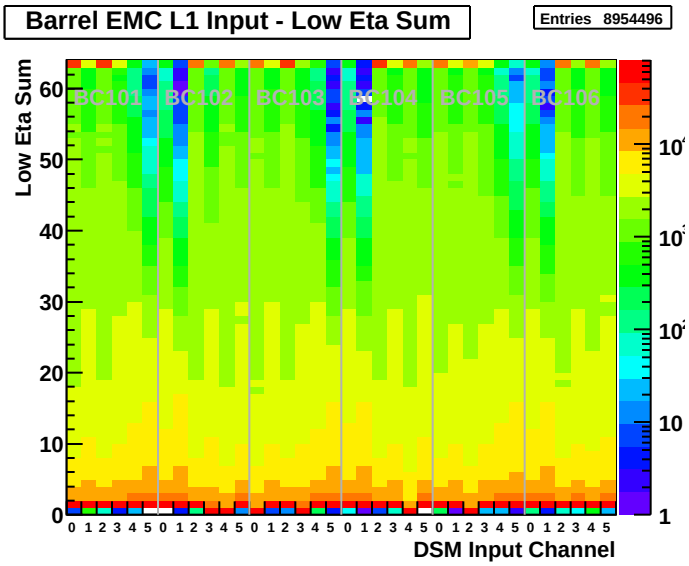
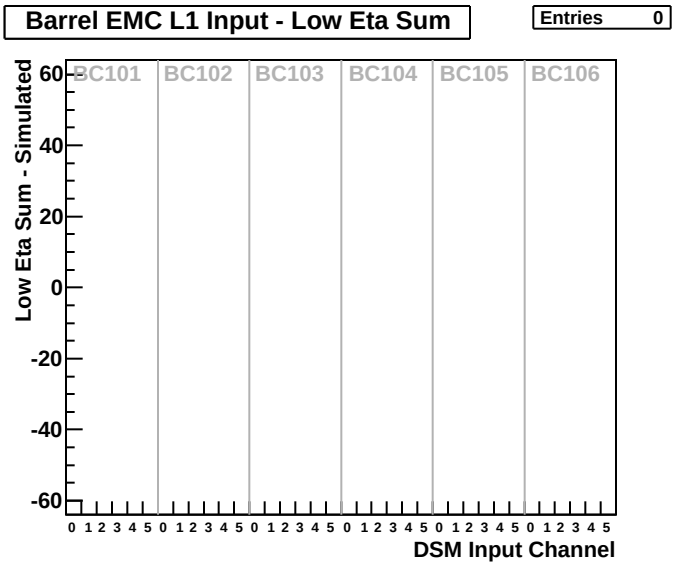
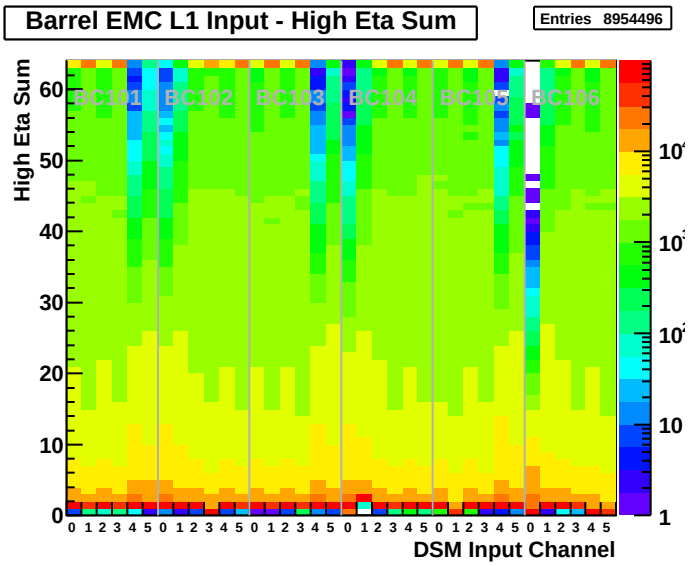
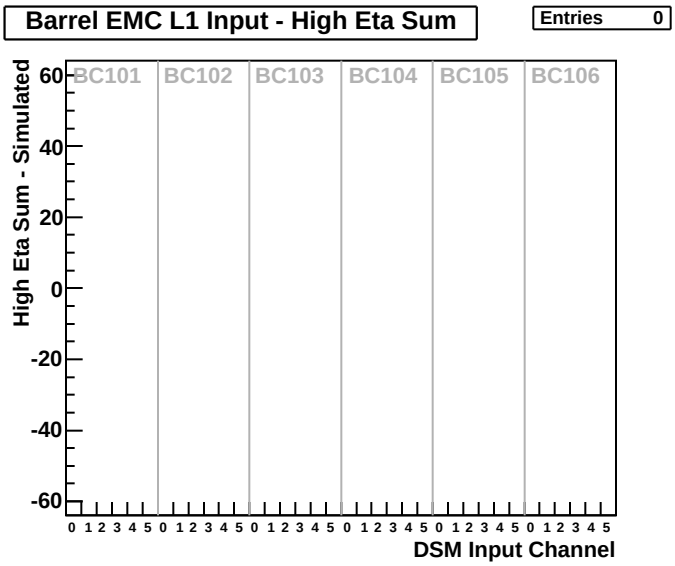
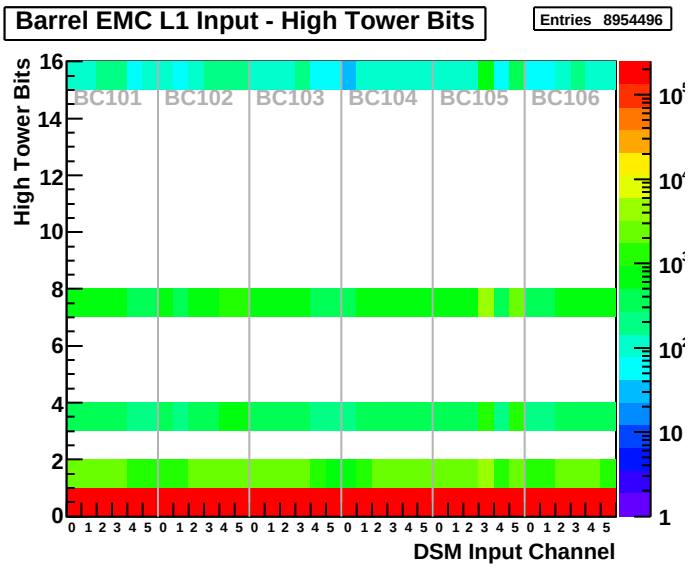
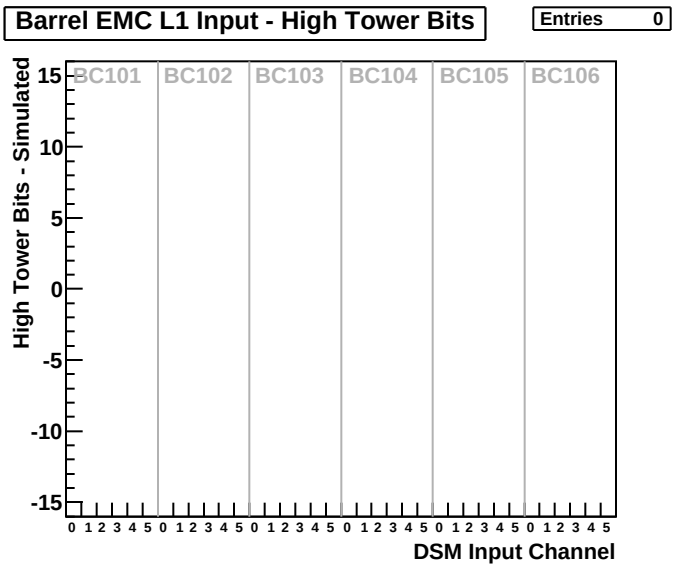

Barrel EMC L1 Input - Low Eta Sum
Entries 8954496
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

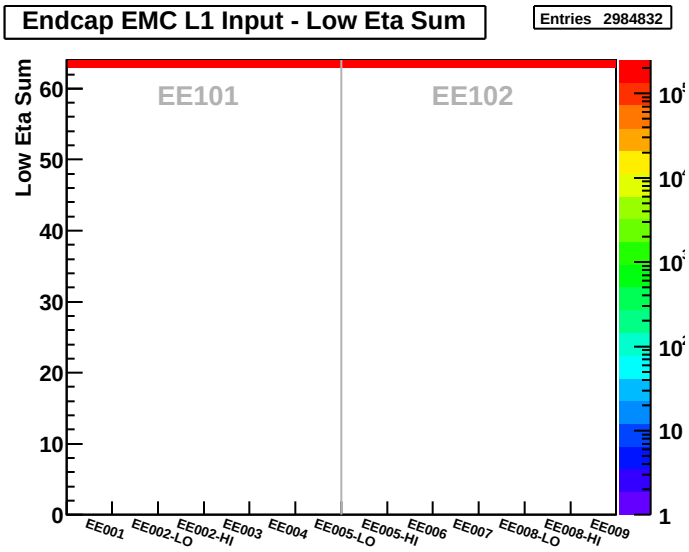

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

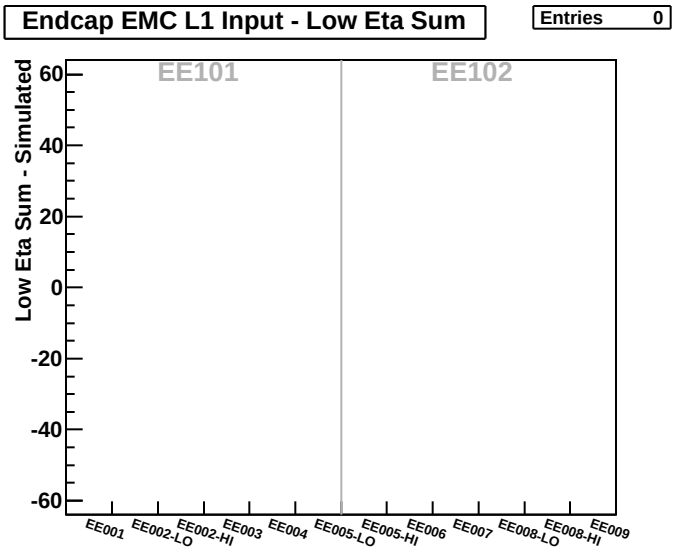

Barrel EMC L1 Input - High Eta Sum
Entries 8954496
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

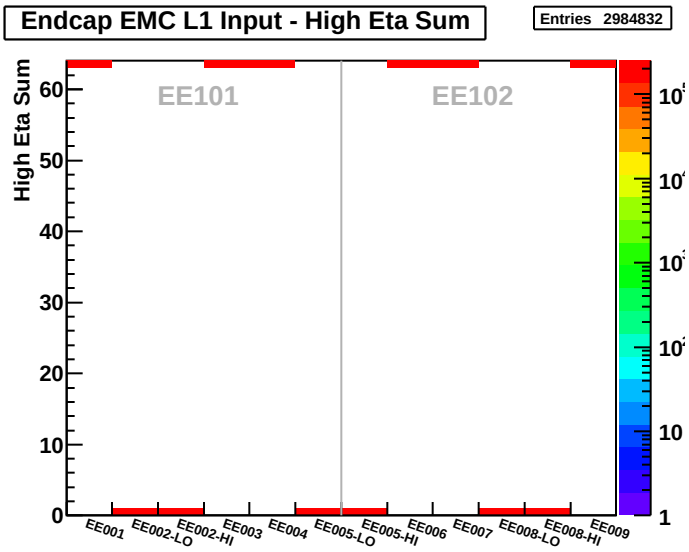

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

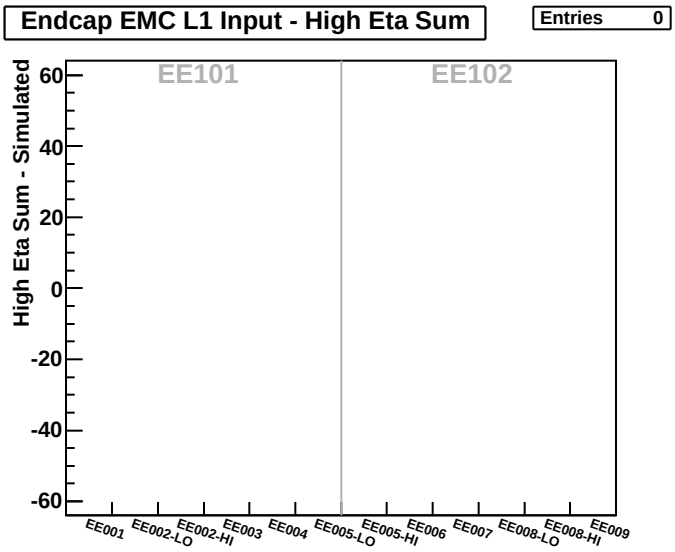

Barrel EMC L1 Input - High Tower Bits
Entries 8954496
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

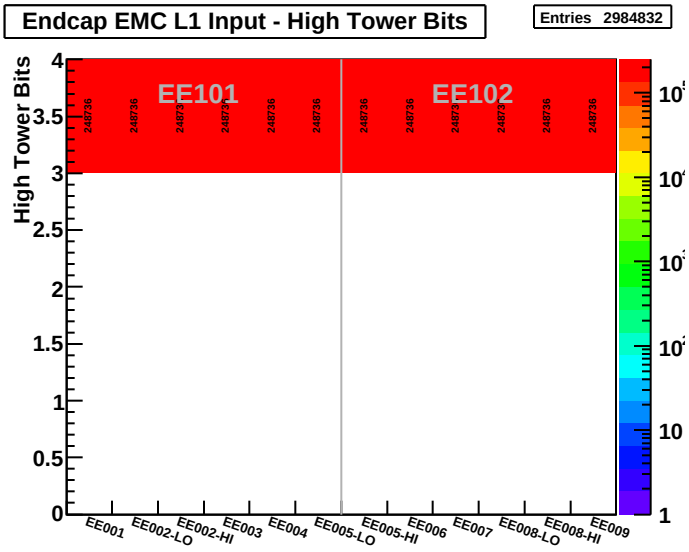

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

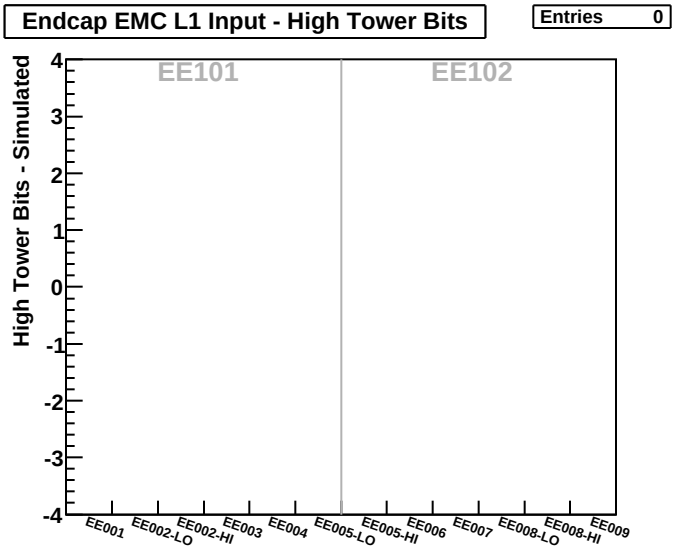

Endcap EMC L1 Input - Low Eta Sum
Entries 2984832
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

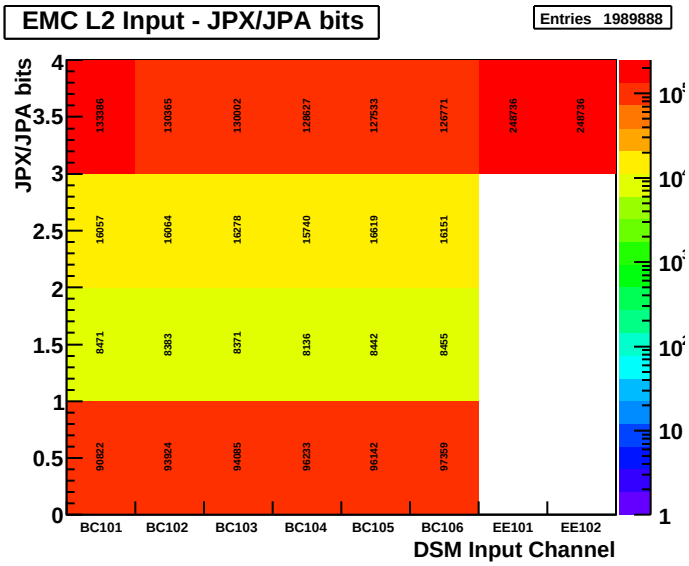

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

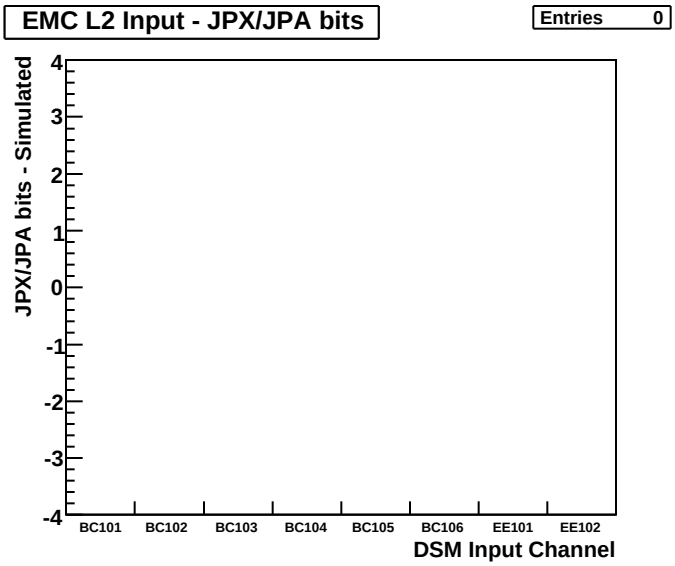

Endcap EMC L1 Input - High Eta Sum
Entries 2984832
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

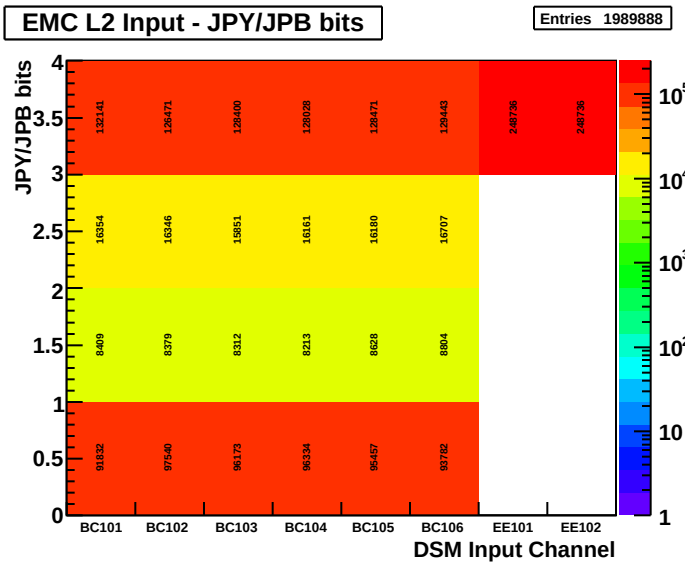

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

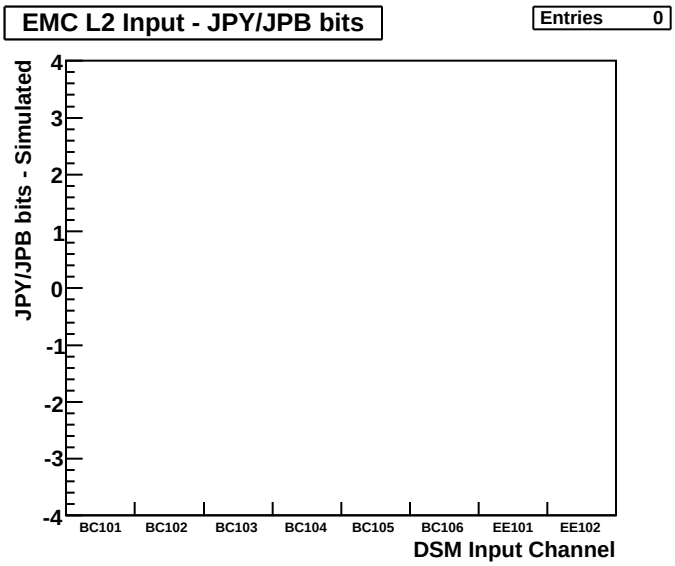

Endcap EMC L1 Input - High Tower Bits
Entries 2984832
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

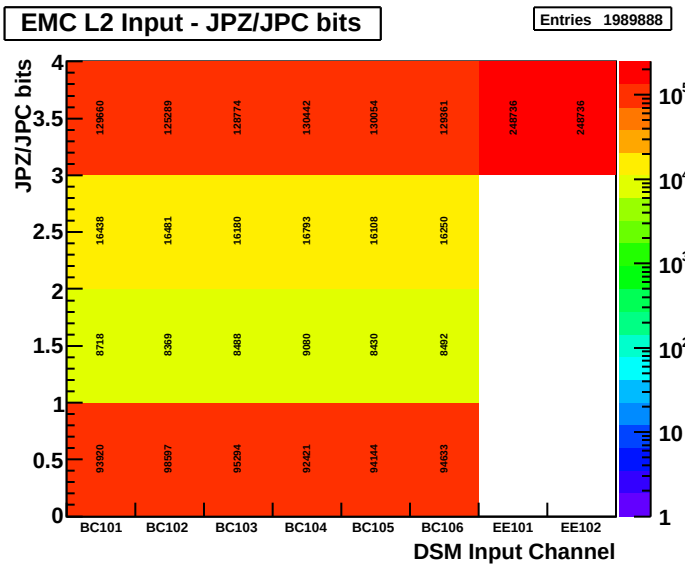

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

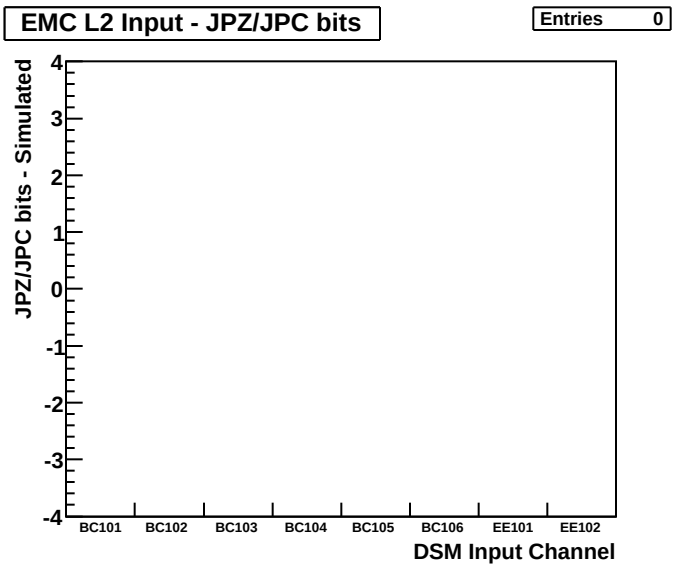

EMC L2 Input - JPX/JPA bits
Entries 1989888
JPX/JPA bits
133386 130365 130002 128627 127533 126771 248736 248736
16057 16064 16278 15740 16619 16151
8471 8383 8371 8136 8442 8455
90822 93924 94085 96233 96142 97359
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

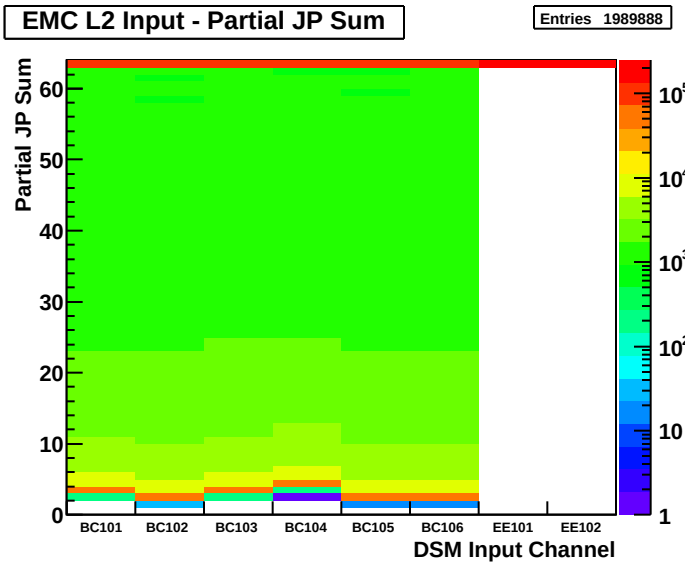

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

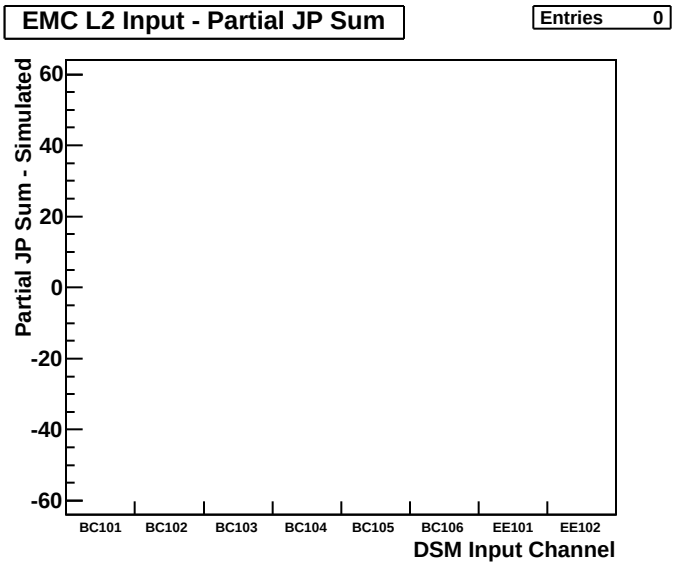

EMC L2 Input - JPY/JPB bits
Entries 1989888
JPY/JPB bits
132141 125471 128400 128028 128471 129443 248736 248736
16354 16346 15851 16161 16180 16707
8409 8379 8312 8213 8528 8904
91832 97540 96173 96334 95457 93782
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

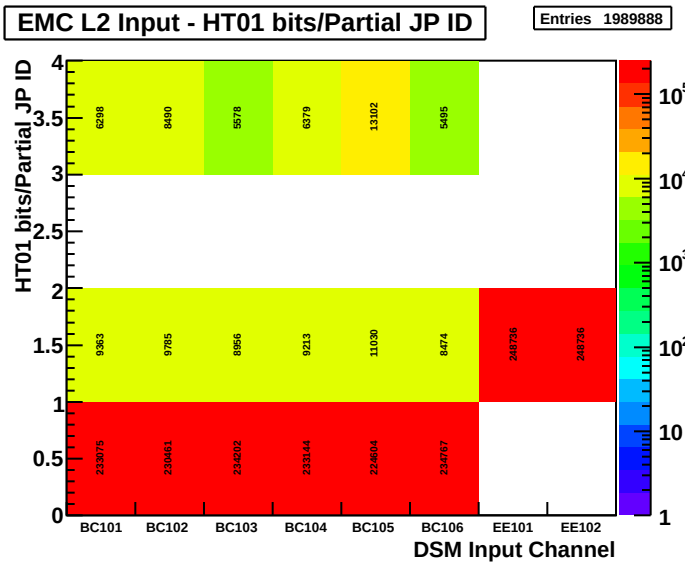

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

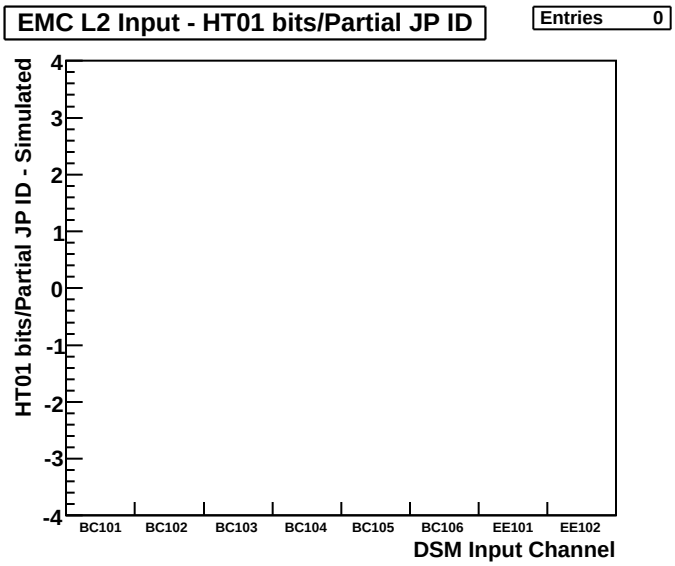

EMC L2 Input - JPZ/JPC bits
Entries 1989888
JPZ/JPC bits
129660 125289 128774 130442 130054 129361 248736 248736
16438 16481 16180 16793 16108 16250
8718 8369 8468 9060 8430 8492
93920 98897 95294 92421 94144 94633
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

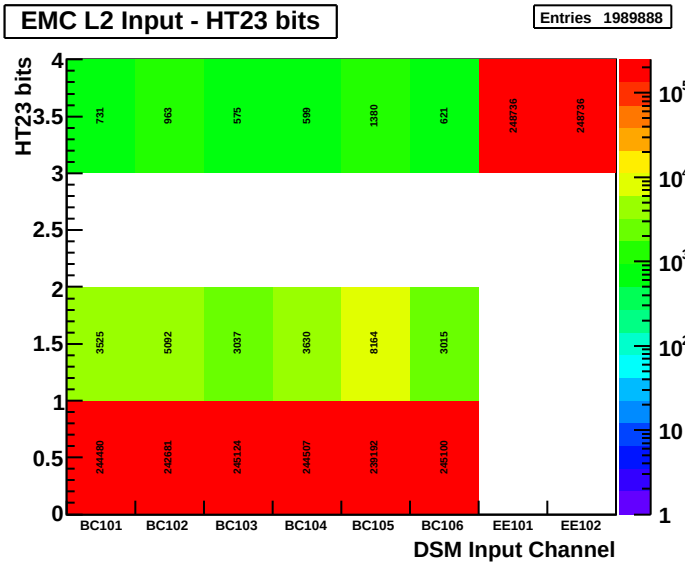

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

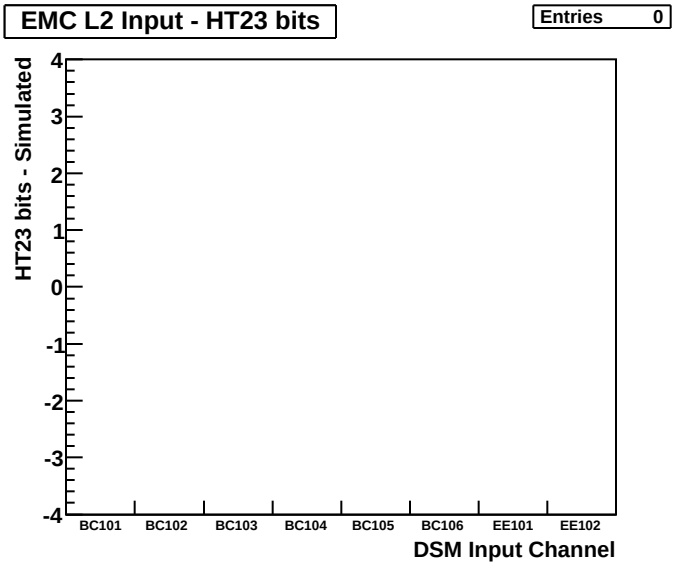

EMC L2 Input - Partial JP Sum
Entries 1989888
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

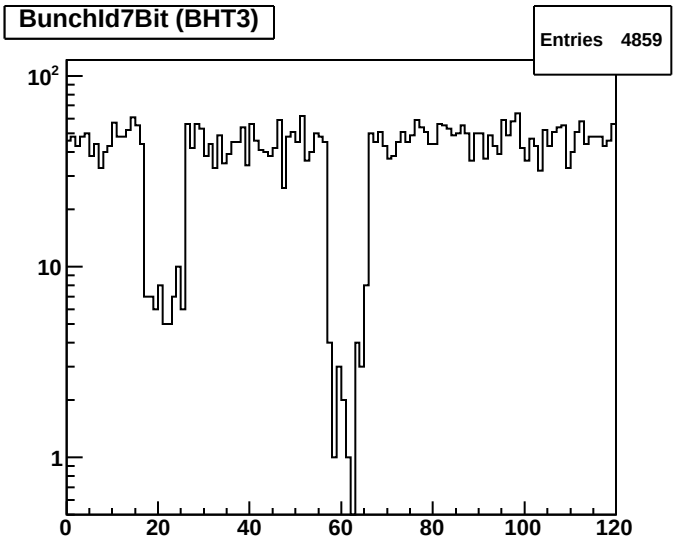

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

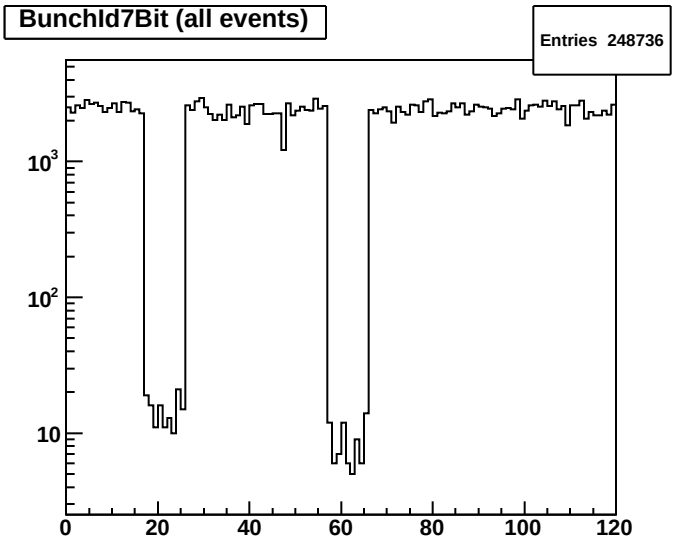

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1989888
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

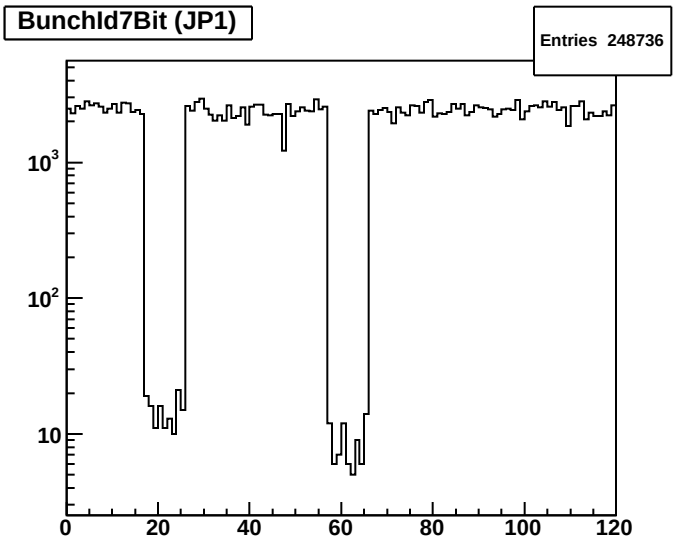

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

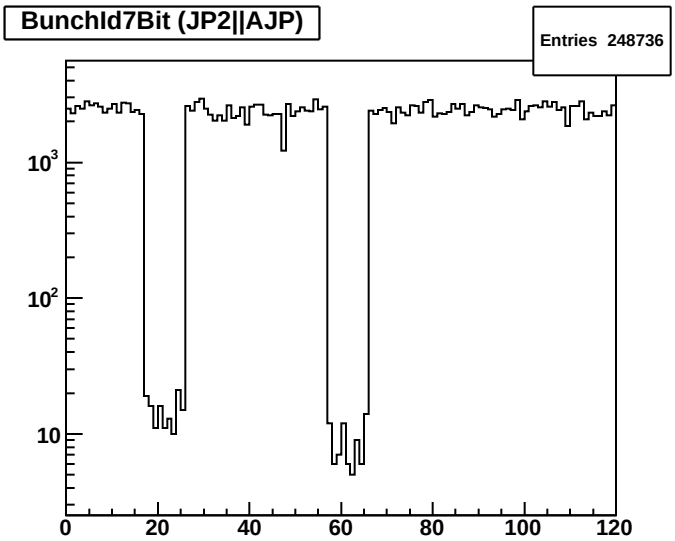

EMC L2 Input - HT23 bits
Entries 1989888
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

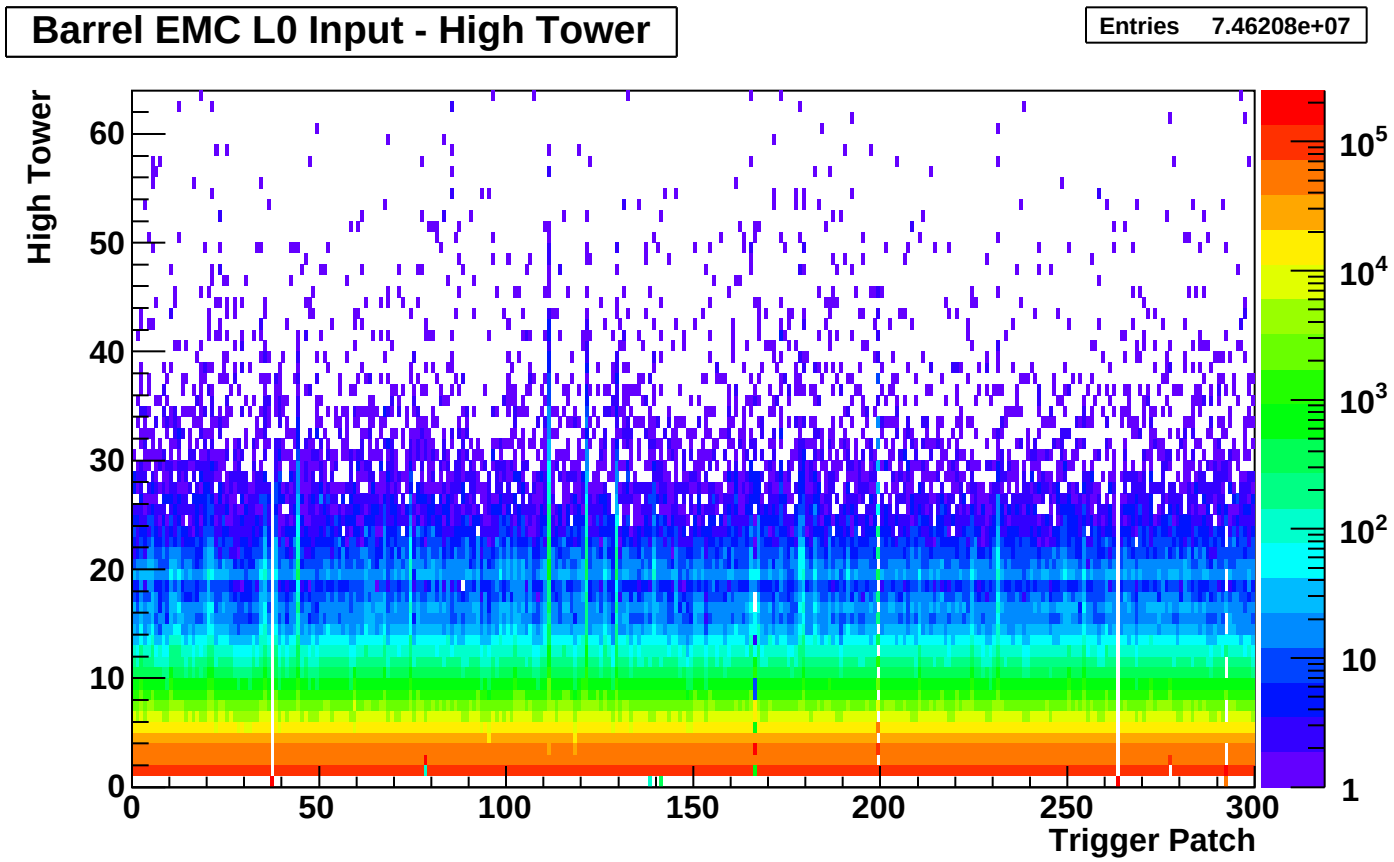

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

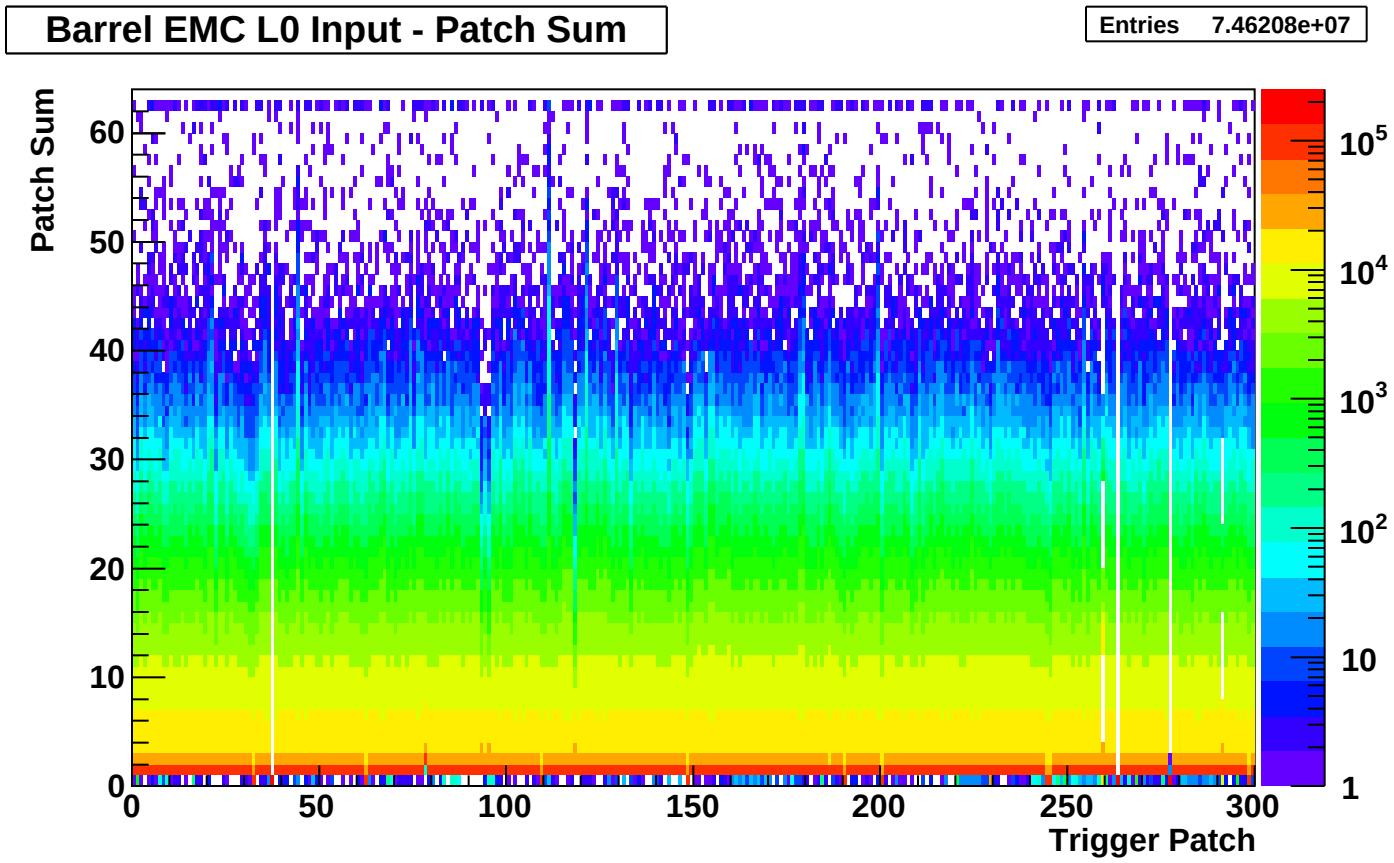

BunchId7Bit (BHT3)
Entries 4859
10^2
10
1
0
20
40
60
80
100
120

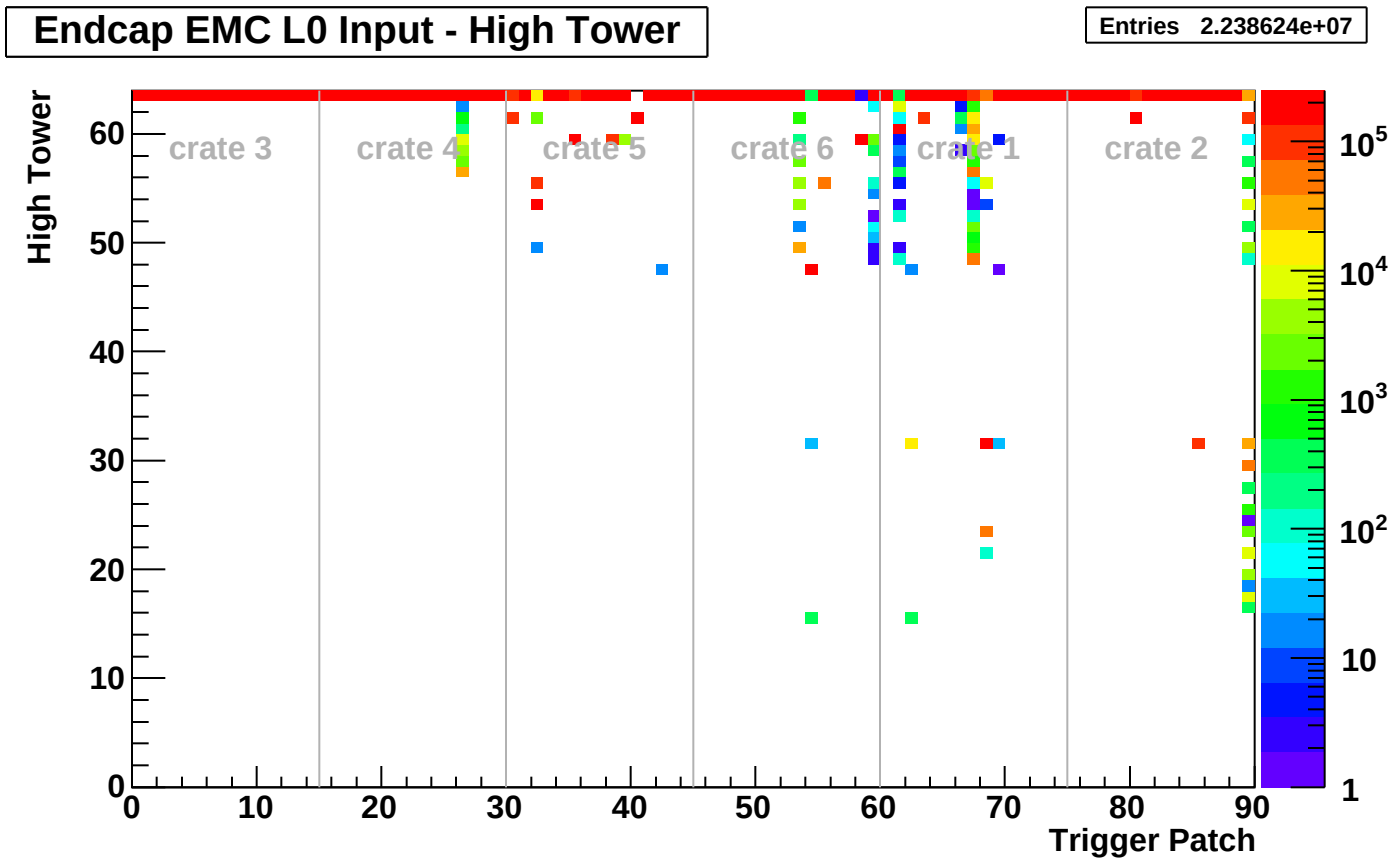

BunchId7Bit (all events)
Entries 248736
10^3
10^2
10
0
20
40
60
80
100
120

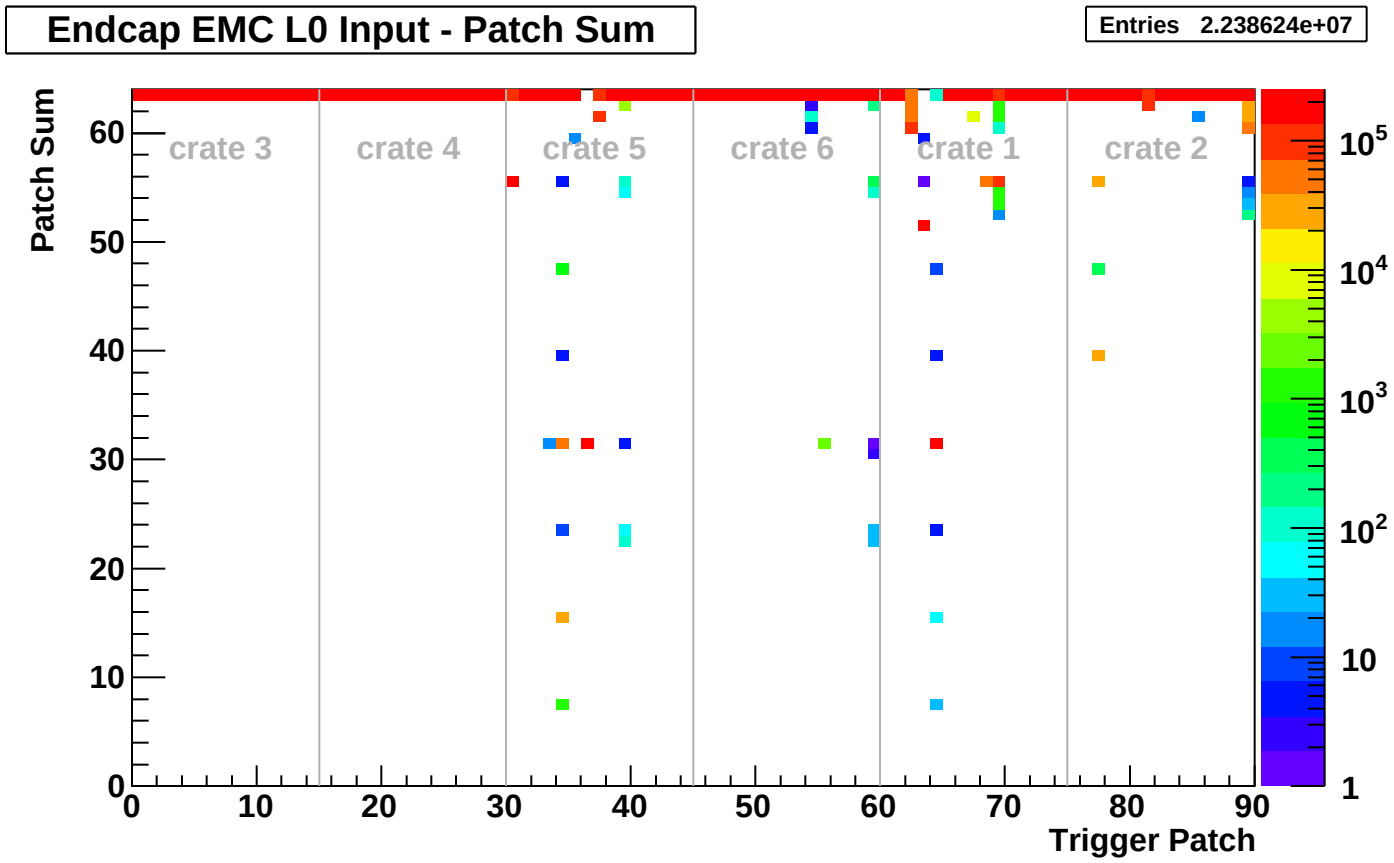

BunchId7Bit (JP1)
Entries 248736
10^3
10^2
10
0
20
40
60
80
100
120

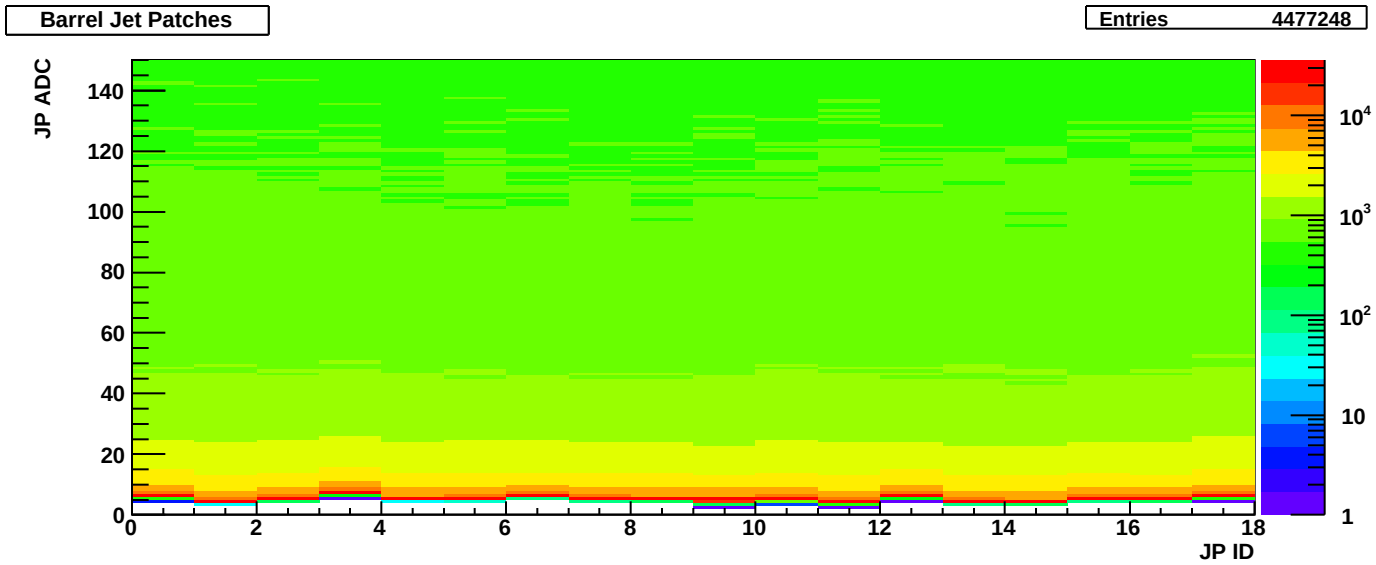

BunchId7Bit (JP2||AJP)
Entries 248736
10^3
10^2
10
0
20
40
60
80
100
120

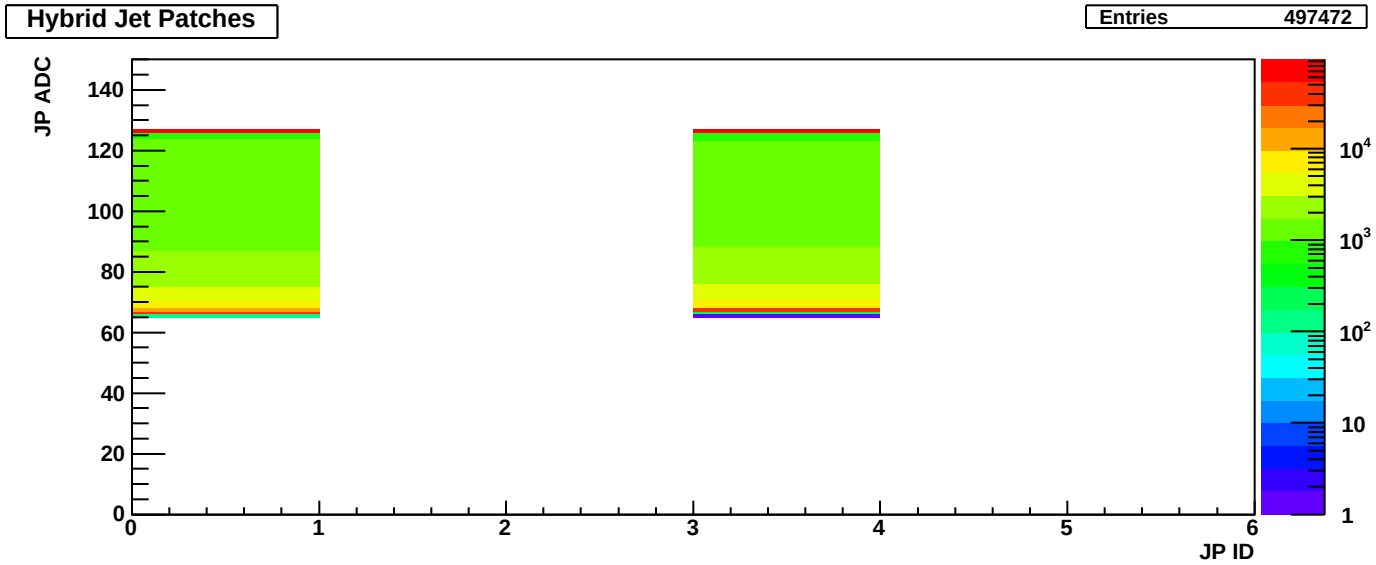

Barrel EMC L0 Input - High Tower
Entries 7.46208e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

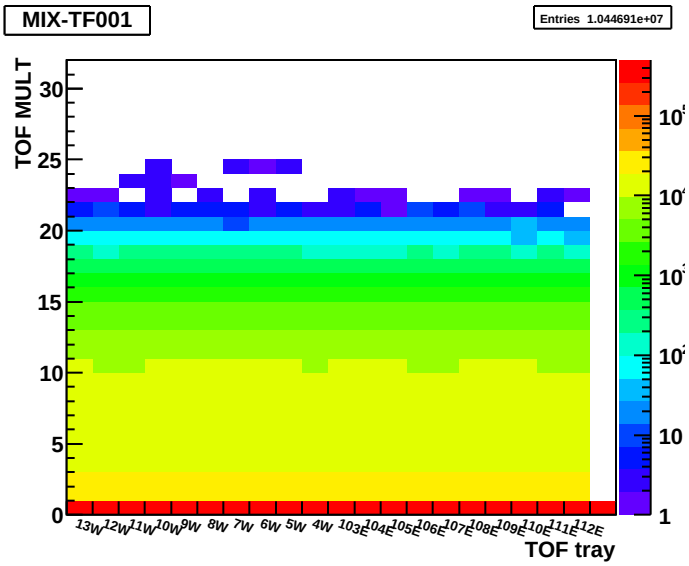

Barrel EMC L0 Input - Patch Sum
Entries 7.46208e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

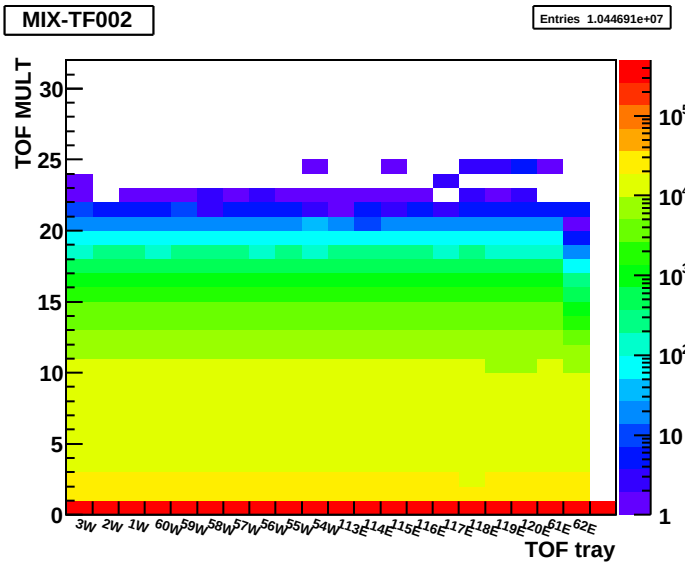

Endcap EMC L0 Input - High Tower
Entries 2.238624e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

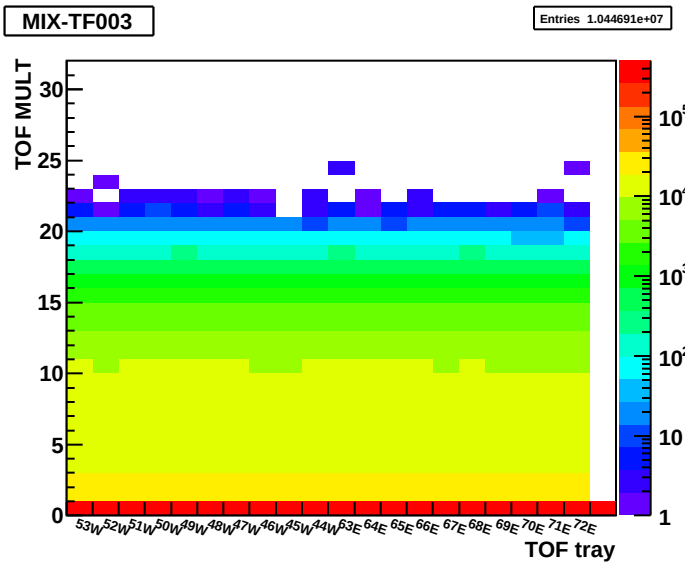

Endcap EMC L0 Input - Patch Sum
Entries 2.238624e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

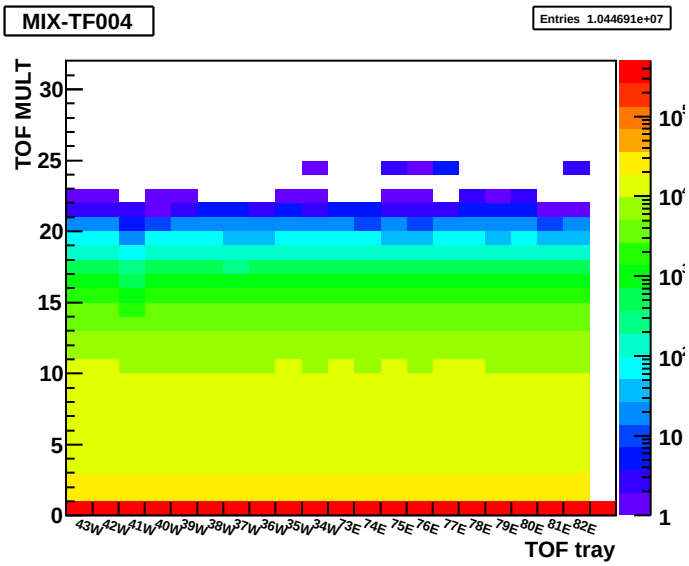

Barrel Jet Patches
Entries 4477248
JP ADC
JP ID

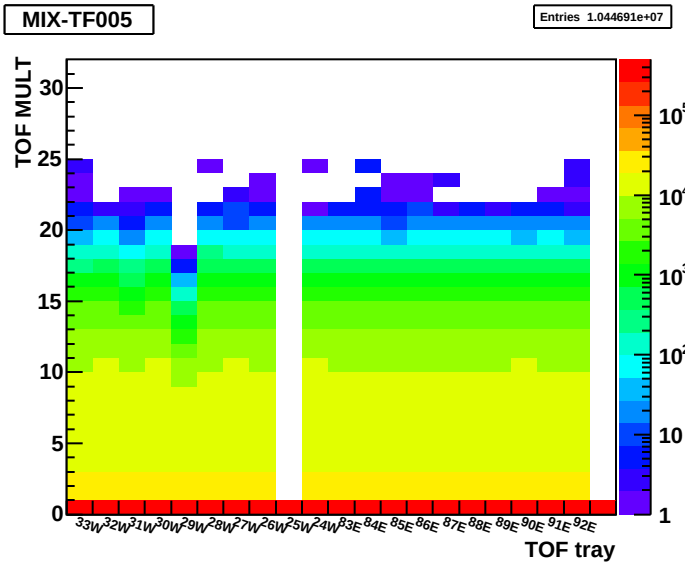

Hybrid Jet Patches
Entries 497472
JP ADC
JP ID

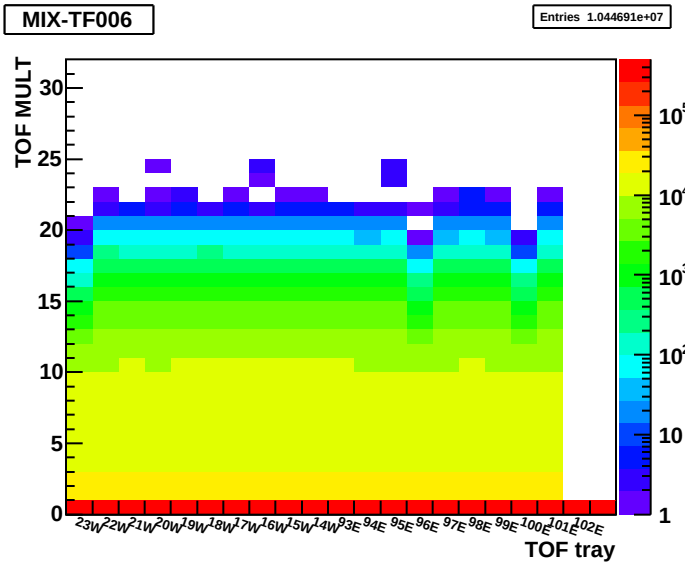

MIX-TF001
Entries 1.044691e+07
TOF MULT
TOF tray

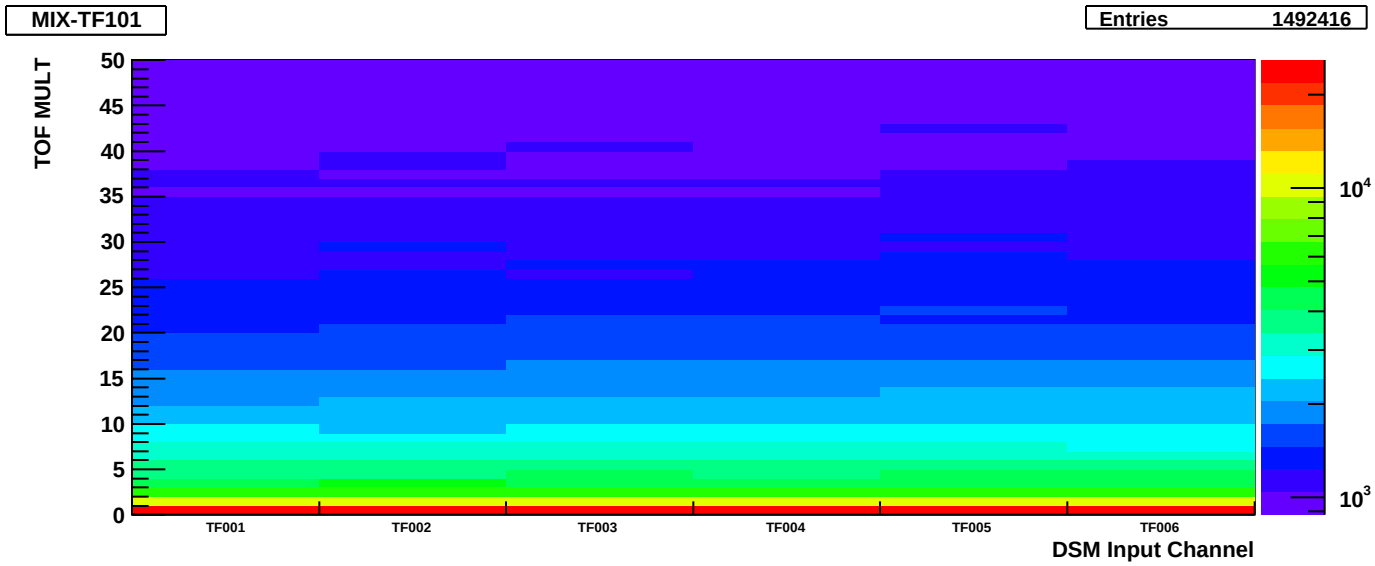

MIX-TF002
Entries 1.044691e+07
TOF MULT
TOF tray

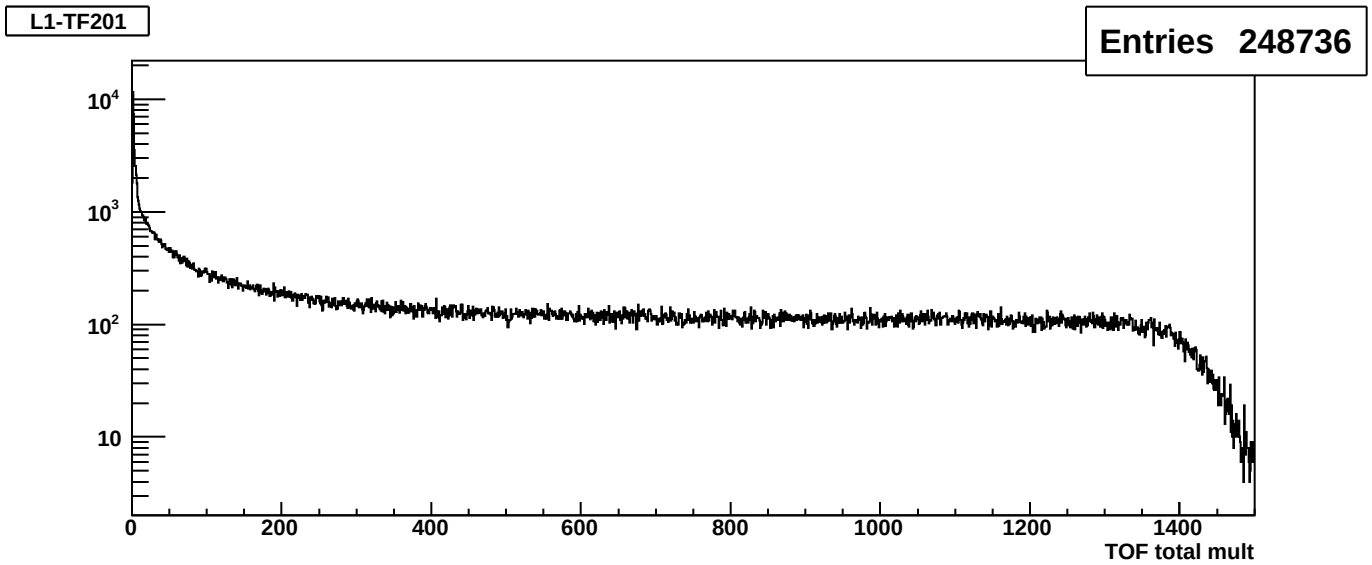

MIX-TF003
Entries 1.044691e+07
TOF MULT
TOF tray

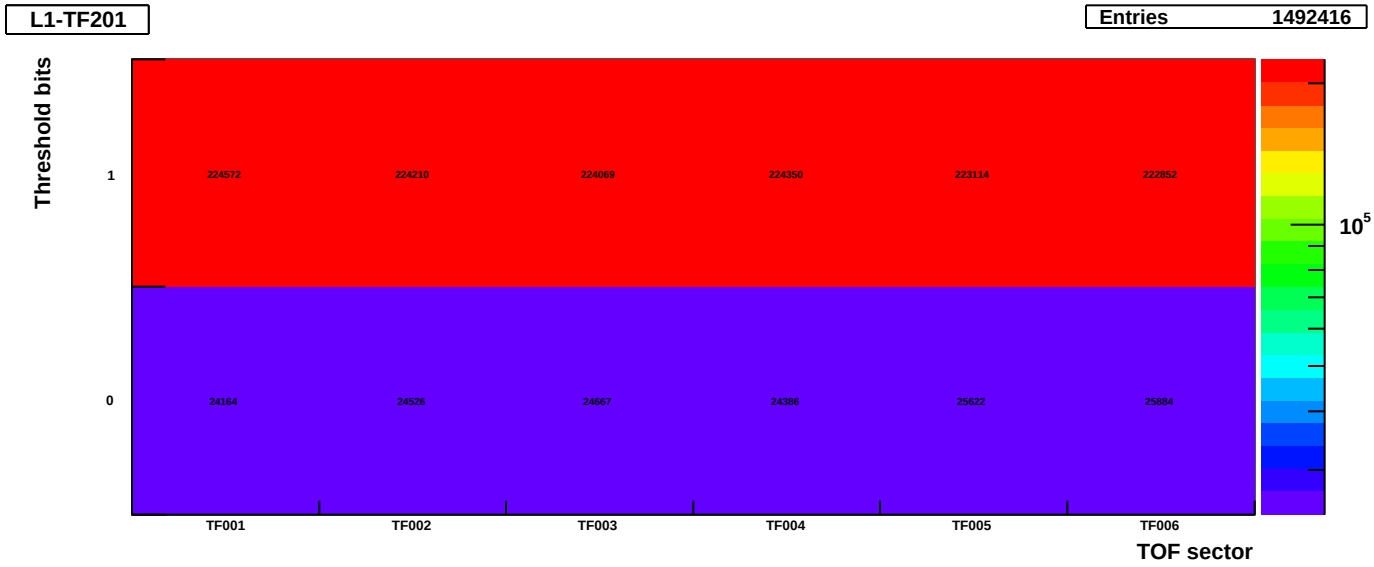

MIX-TF004
Entries 1.044691e+07
TOF MULT
TOF tray

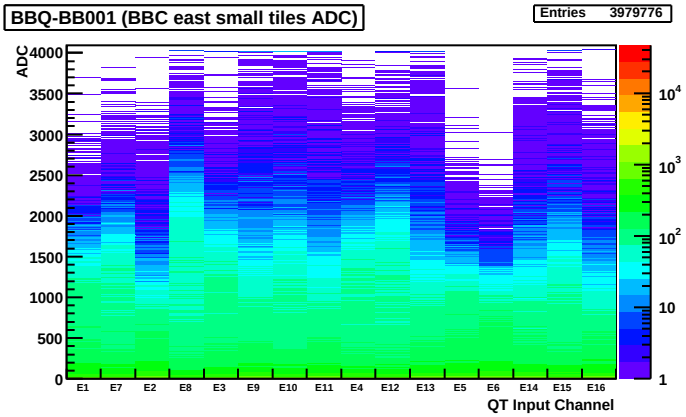

MIX-TF005
Entries 1.044691e+07
TOF MULT
TOF tray

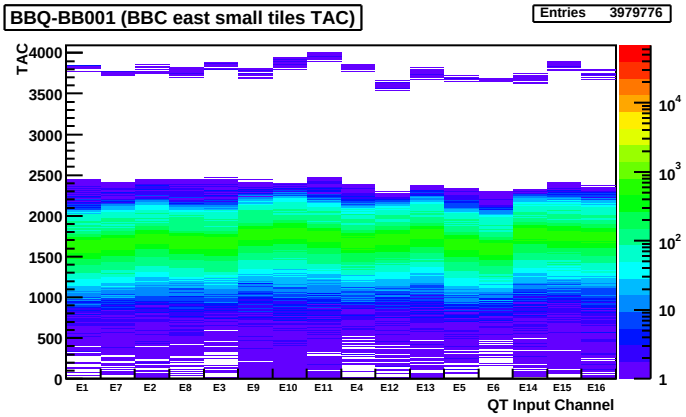

MIX-TF006
Entries 1.044691e+07
TOF MULT
TOF tray

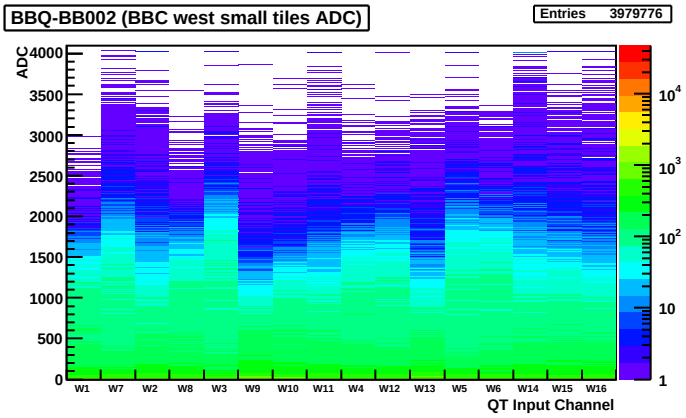

MIX-TF101
Entries 1492416
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

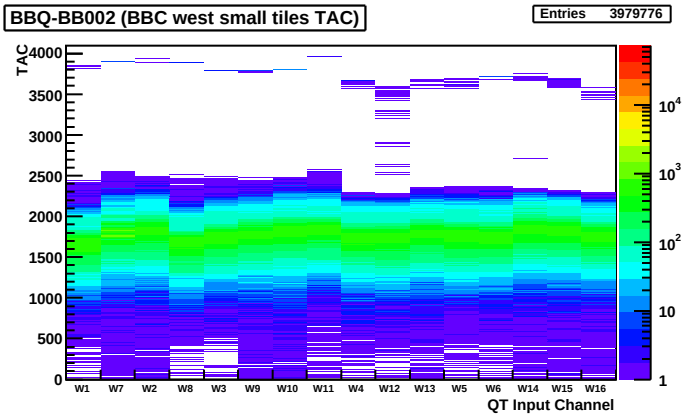

L1-TF201
Entries 248736
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

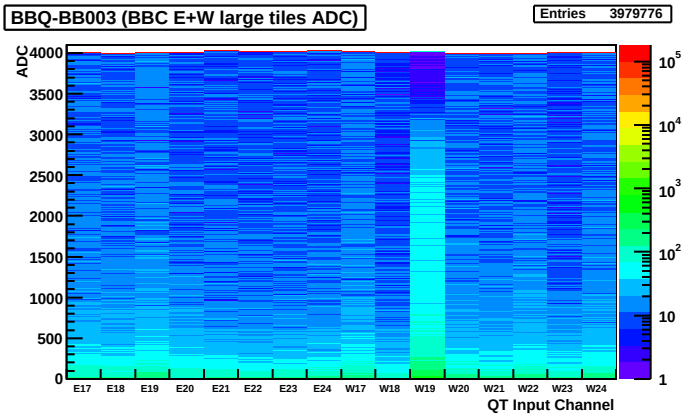

L1-TF201
Entries 1492416
Threshold bits
1
0
224572
224210
224069
224350
223114
222852
24164
24526
24667
24386
25622
25884
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

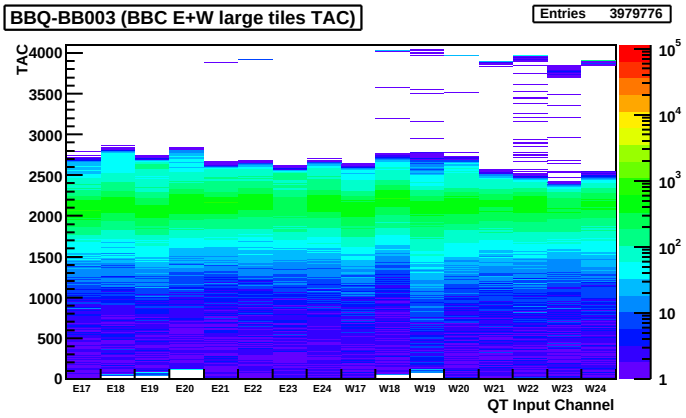

BBQ-BB001 (BBC east small tiles ADC)
Entries 3979776
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

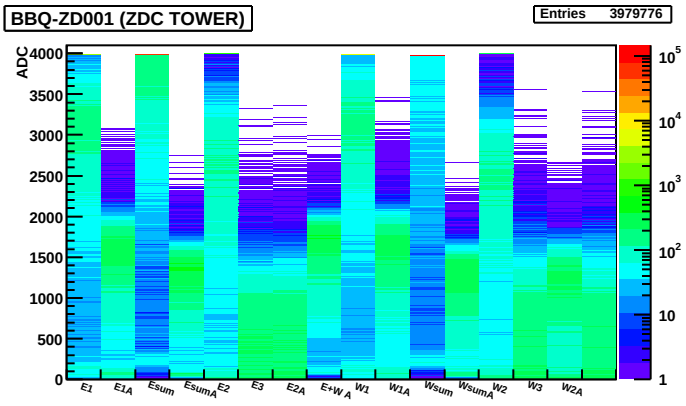

BBQ-BB001 (BBC east small tiles TAC)
Entries 3979776
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

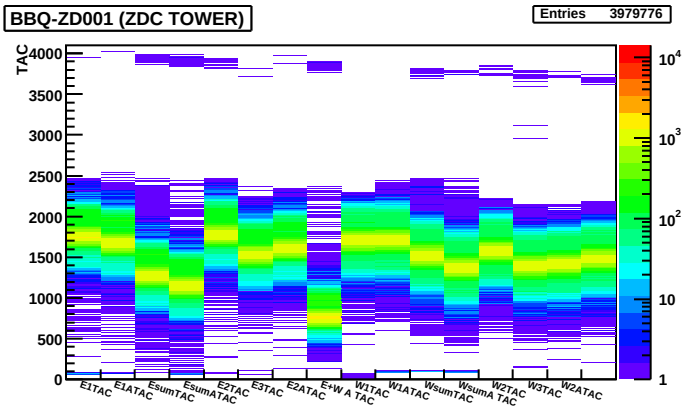

BBQ-BB002 (BBC west small tiles ADC)
Entries 3979776
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

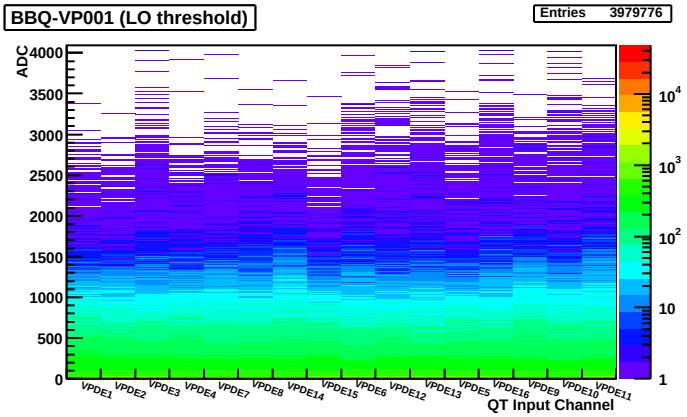

BBQ-BB002 (BBC west small tiles TAC)
Entries 3979776
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

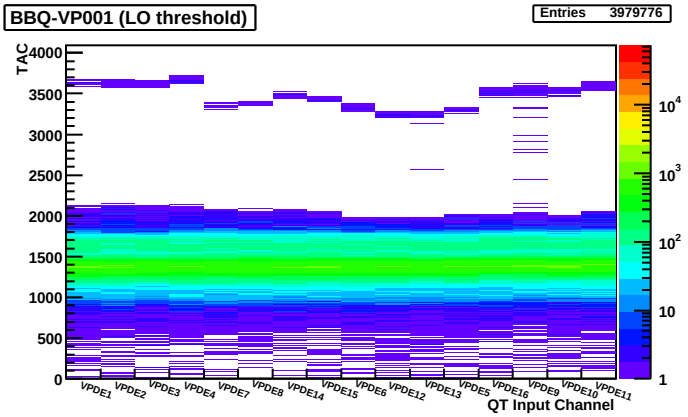

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3979776
ADC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

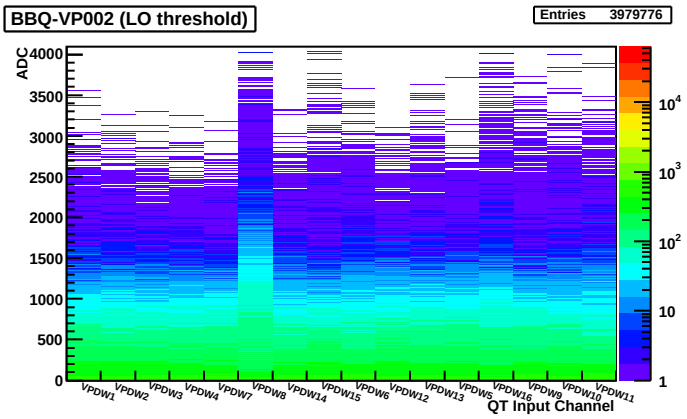

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3979776
TAC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

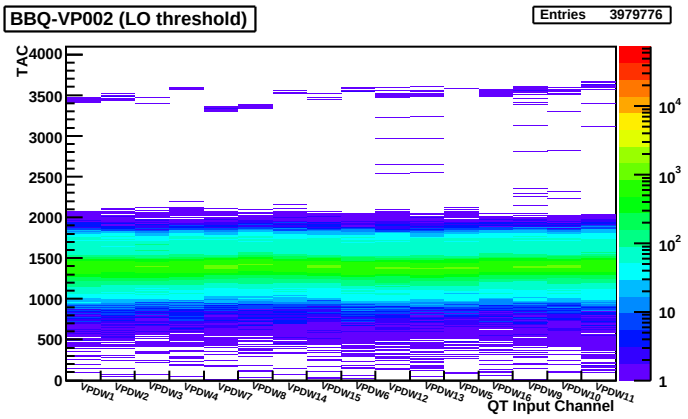

BBQ-ZD001 (ZDC TOWER)
Entries 3979776
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

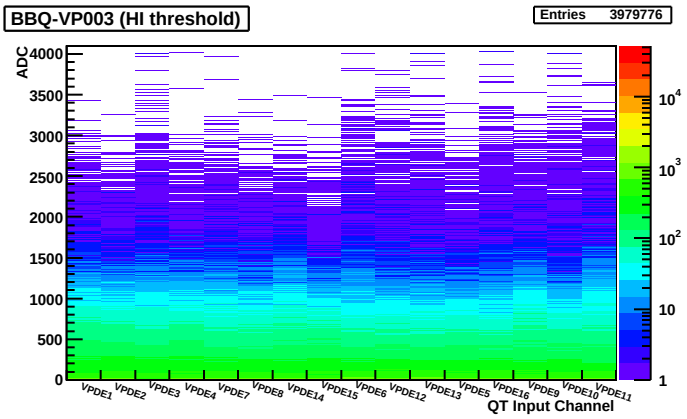

BBQ-ZD001 (ZDC TOWER)
Entries 3979776
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

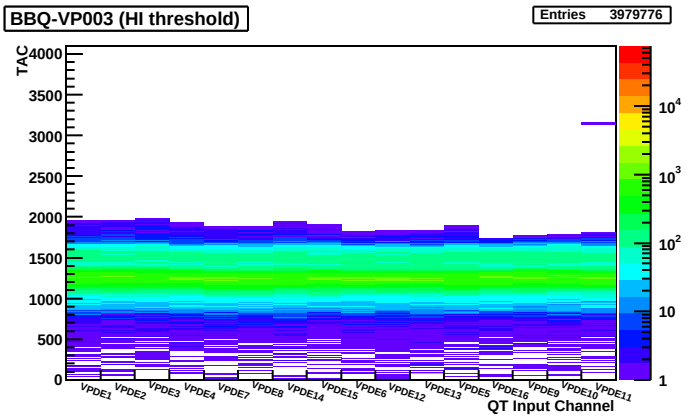

BBQ-VP001 (LO threshold)
Entries 3979776
ADC
QT Input Channel

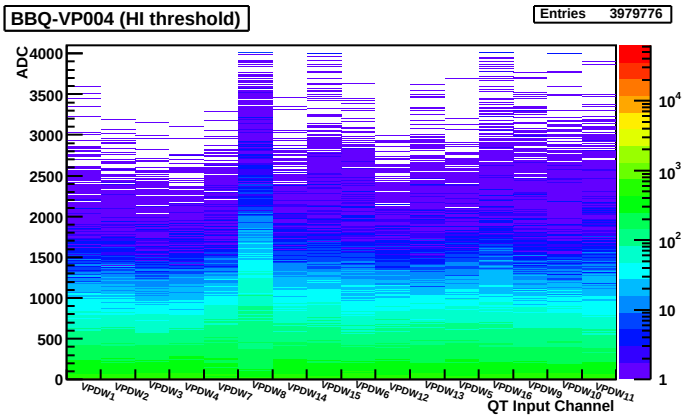

BBQ-VP001 (LO threshold)
Entries 3979776
TAC
QT Input Channel

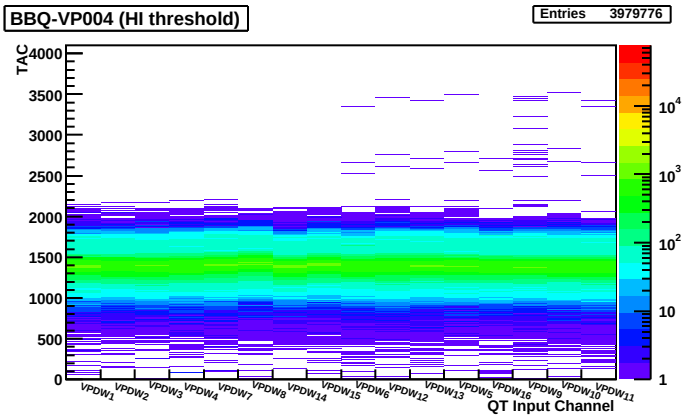

BBQ-VP002 (LO threshold)
Entries 3979776
ADC
QT Input Channel

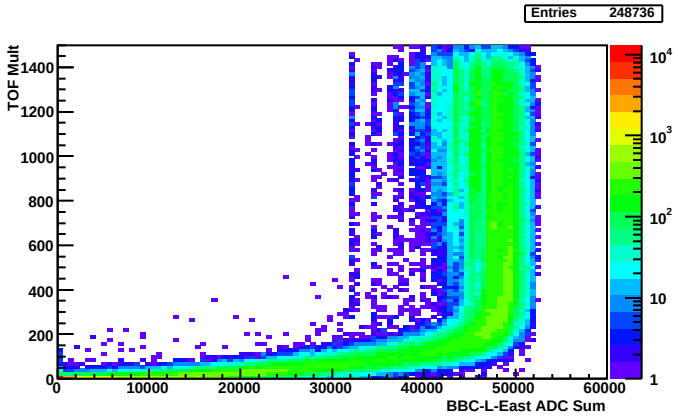

BBQ-VP002 (LO threshold)
Entries 3979776
TAC
QT Input Channel

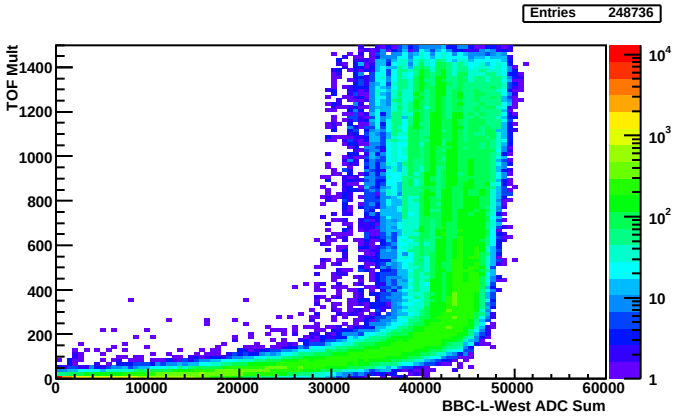

BBQ-VP003 (HI threshold)
Entries 3979776
ADC
QT Input Channel

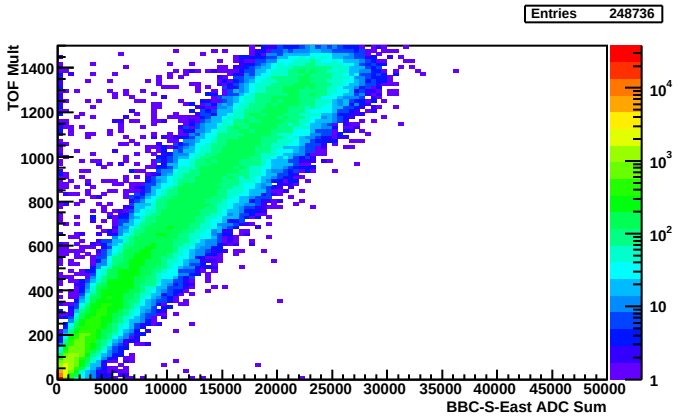

BBQ-VP003 (HI threshold)
Entries 3979776
TAC
QT Input Channel

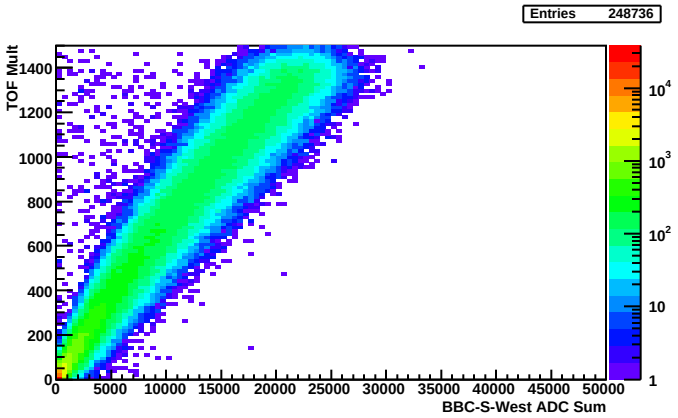

BBQ-VP004 (HI threshold)
Entries 3979776
ADC
QT Input Channel

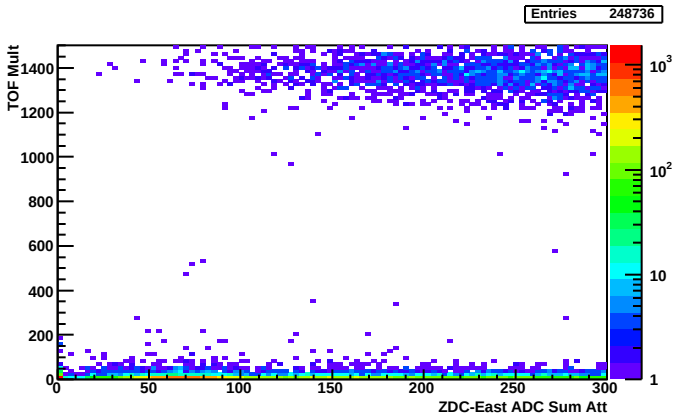

BBQ-VP004 (HI threshold)
Entries 3979776
TAC
QT Input Channel

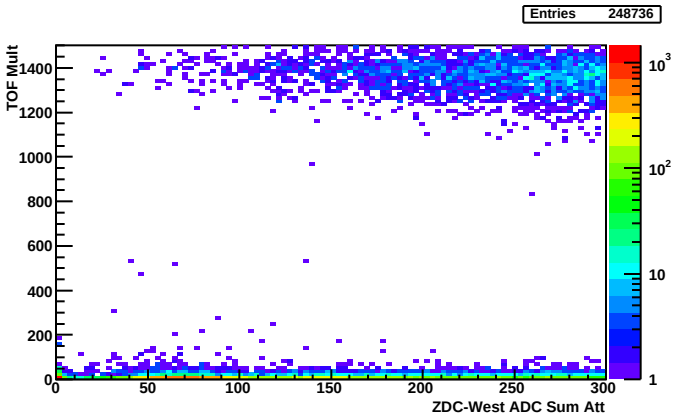

Entries 248736
TOF Mult
BBC-L-East ADC Sum

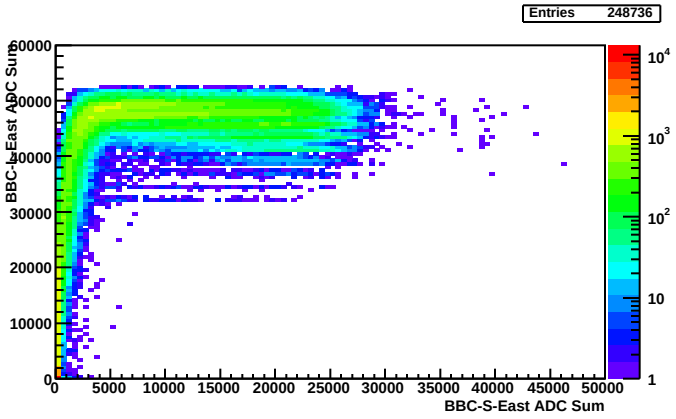

Entries 248736
TOF Mult
BBC-L-West ADC Sum

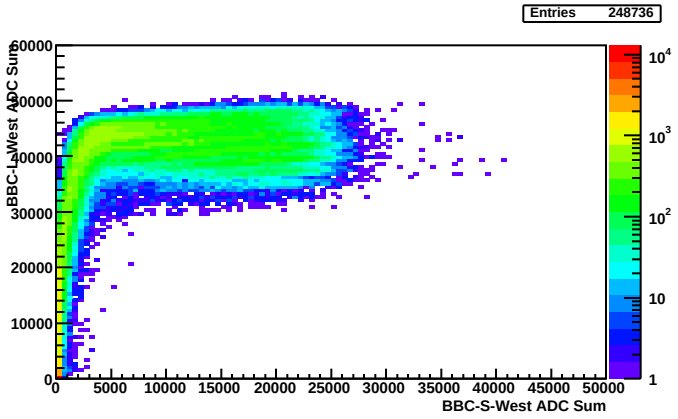

Entries 248736
TOF Mult
BBC-S-East ADC Sum

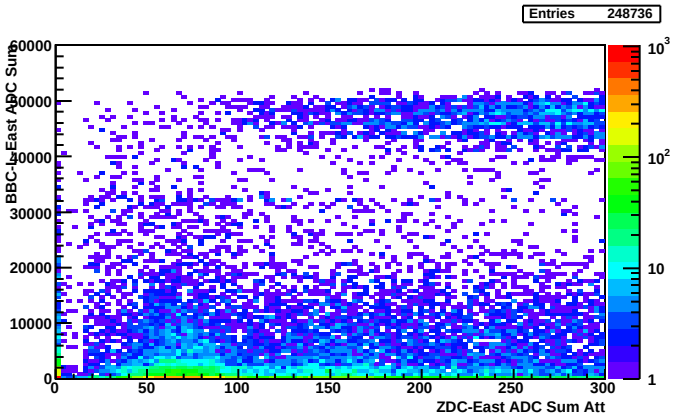

Entries 248736
TOF Mult
BBC-S-West ADC Sum

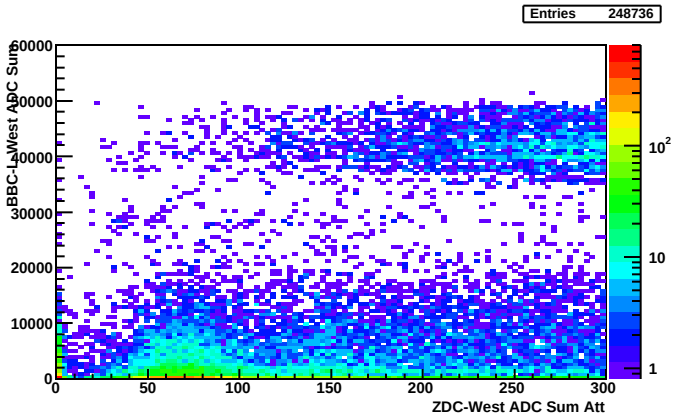

Entries 248736
TOF Mult
ZDC-East ADC Sum Att

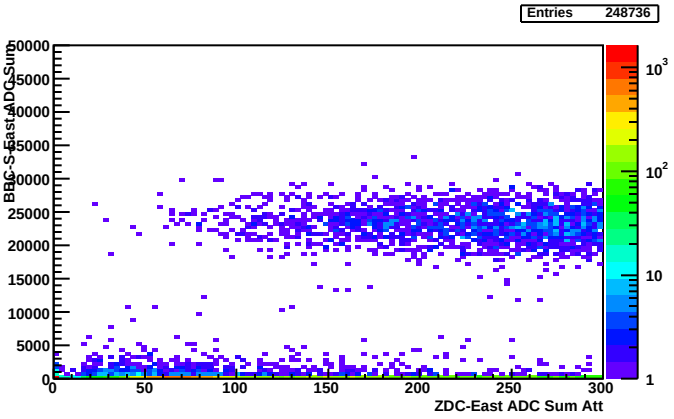

Entries 248736
TOF Mult
ZDC-West ADC Sum Att

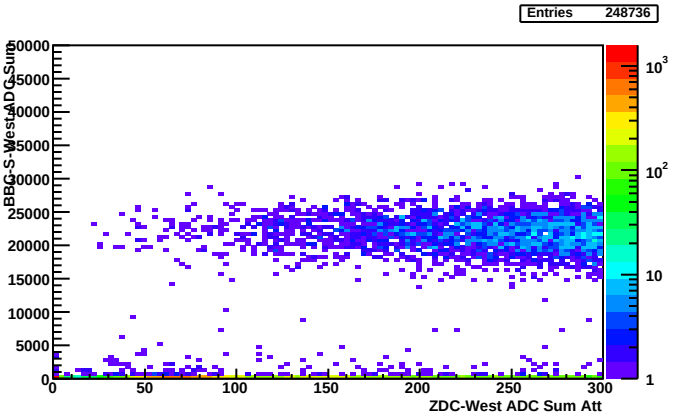

Entries 248736
BBC-L-East ADC Sum
BBC-S-East ADC Sum

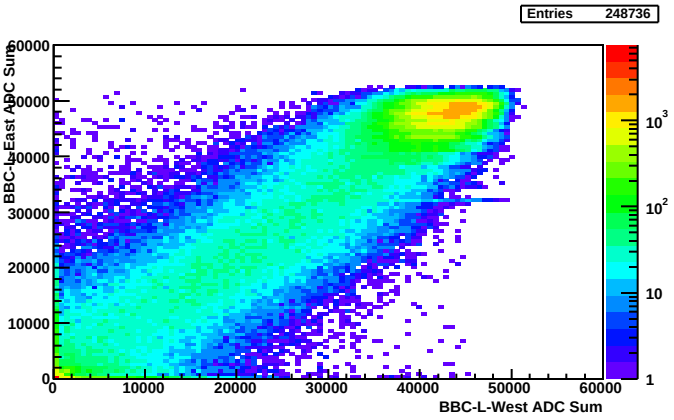

Entries 248736
BBC-L-West ADC Sum
BBC-S-West ADC Sum

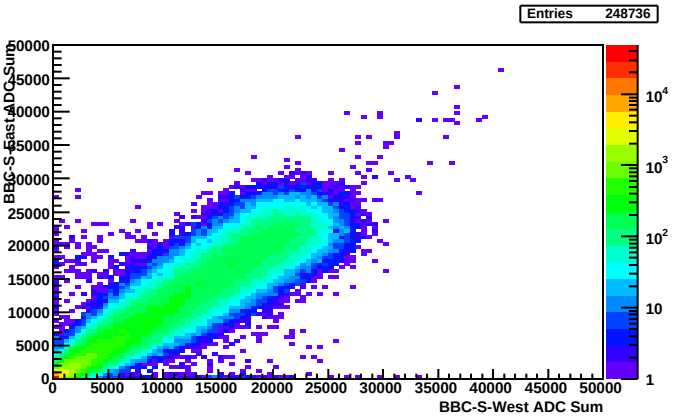

Entries 248736
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

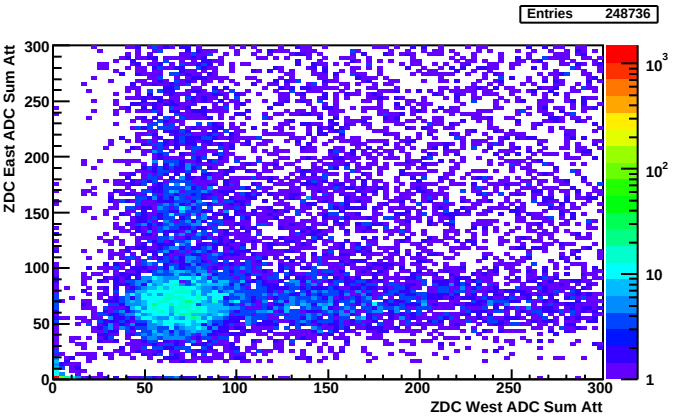

Entries 248736
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

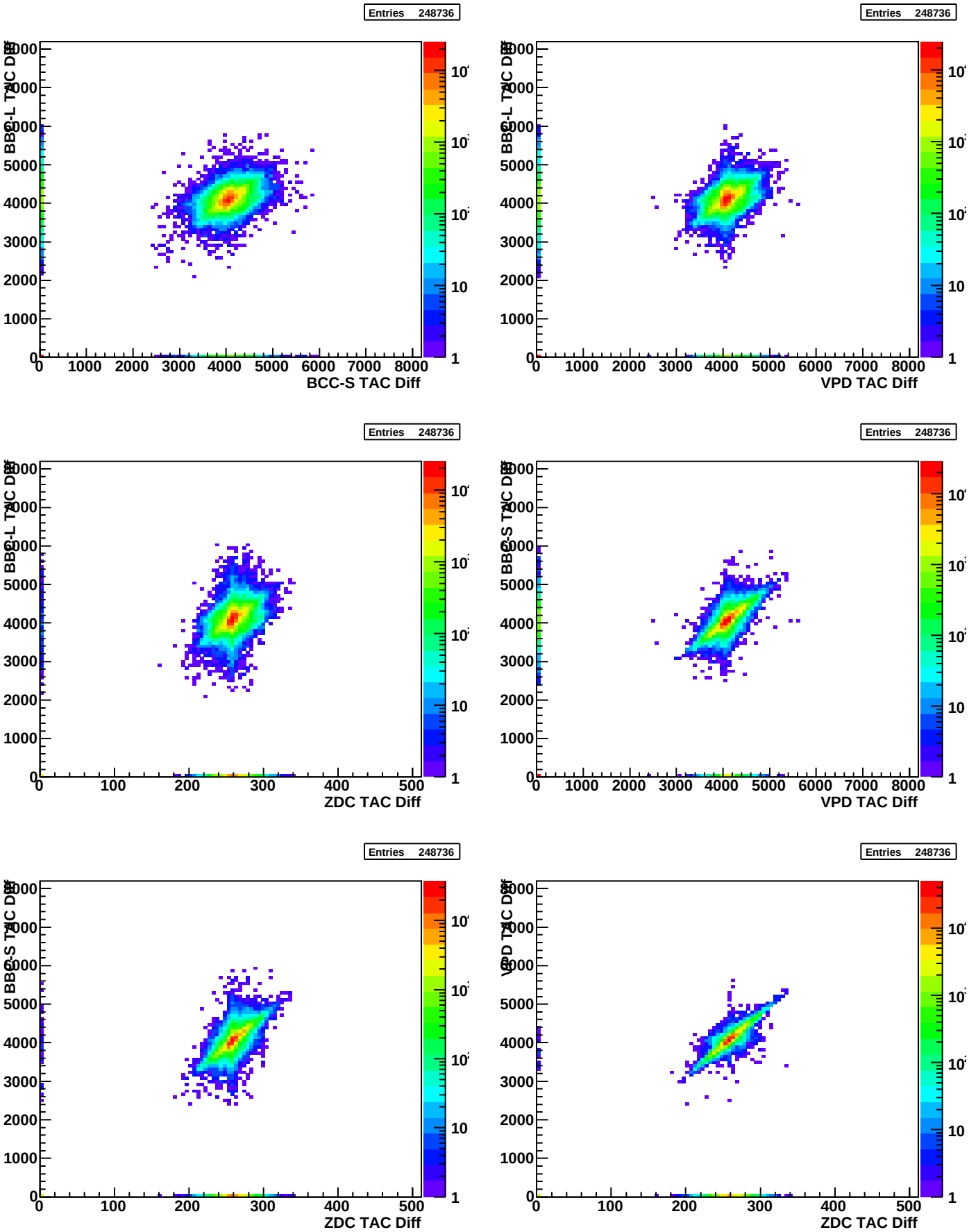

Entries 248736
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

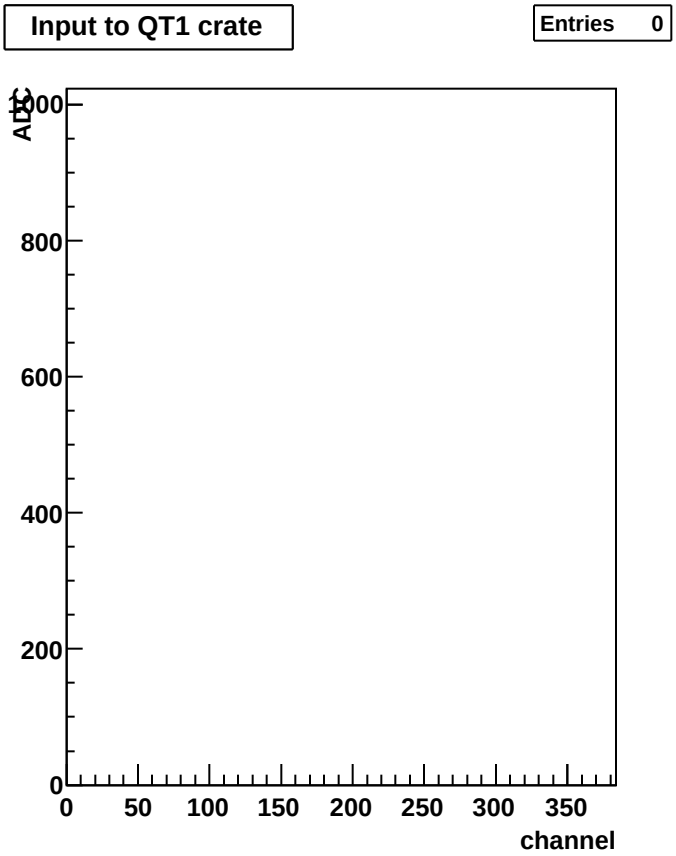

Entries 248736
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

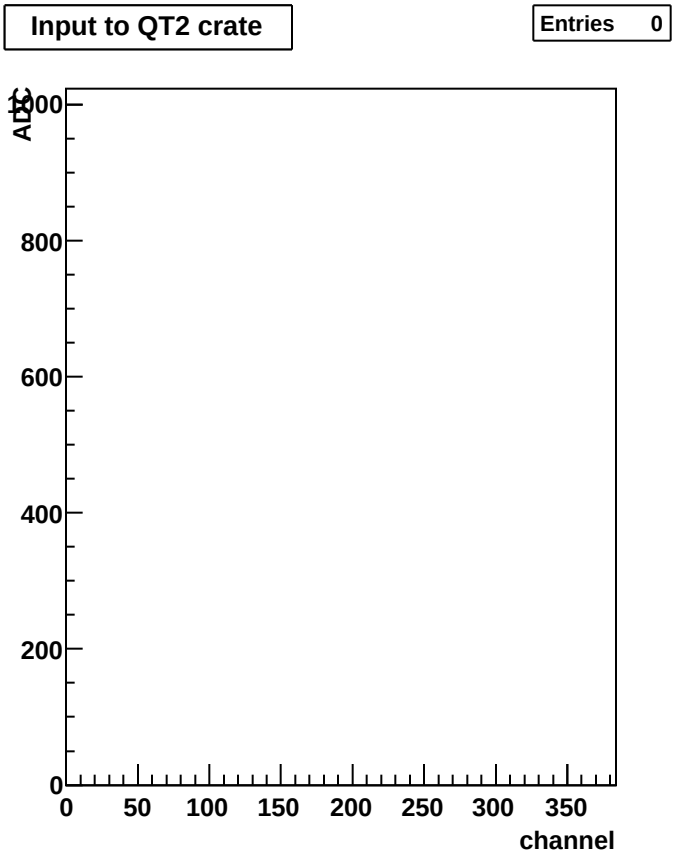

Entries 248736
BBC-L-East ADC Sum
BBC-L-West ADC Sum

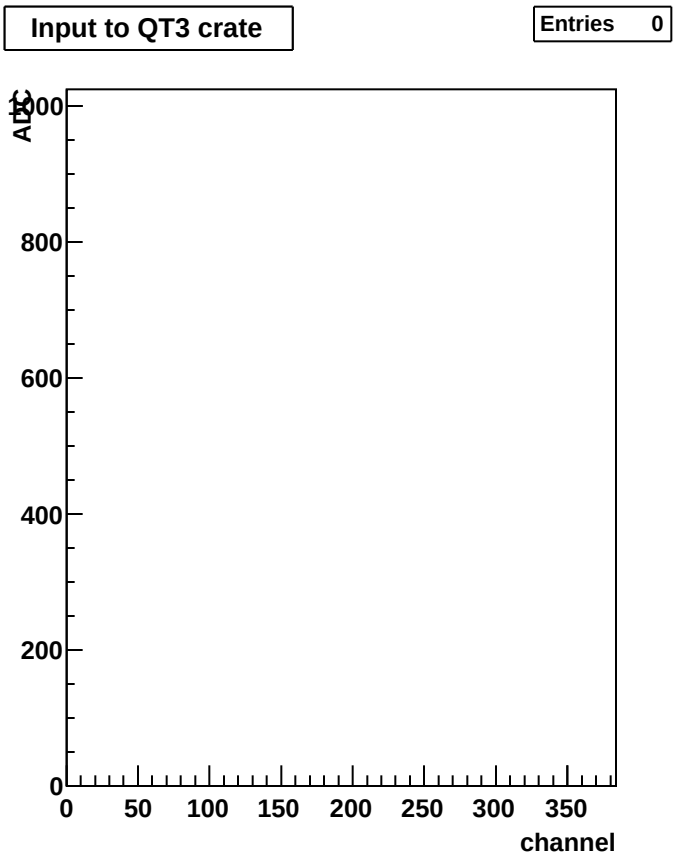

Entries 248736
BBC-S-East ADC Sum
BBC-S-West ADC Sum

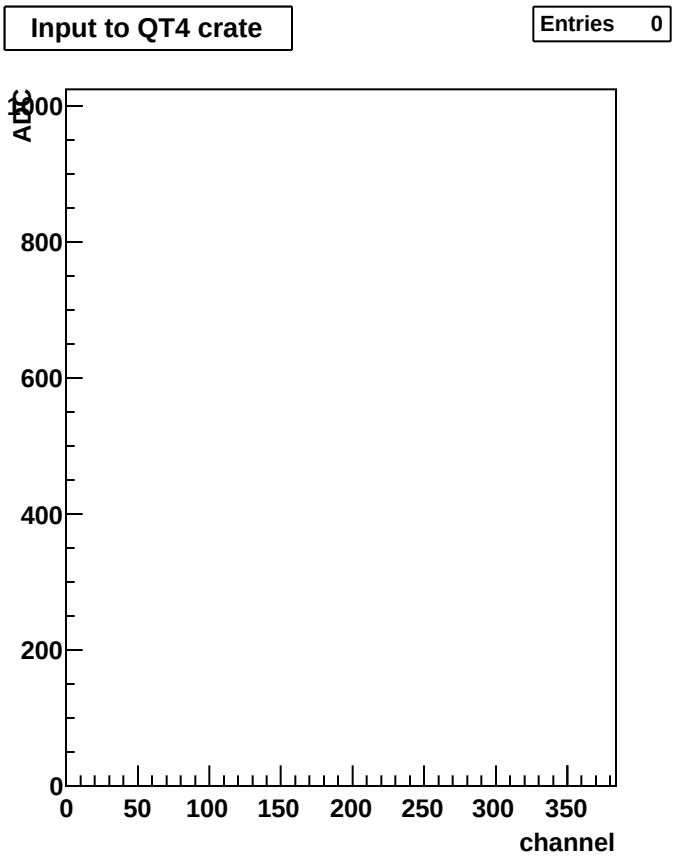

Entries 248736
ZDC East ADC Sum Att
ZDC West ADC Sum Att

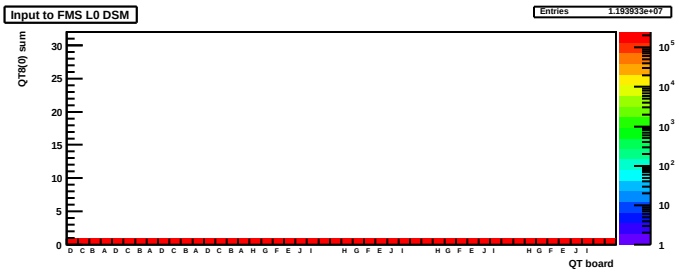

Entries 248736
BBC-L TAC Diff
BCC-S TAC Diff
Entries 248736
BBC-L TAC Diff
VPD TAC Diff
Entries 248736
BBC-L TAC Diff
ZDC TAC Diff
Entries 248736
BBC-S TAC Diff
VPD TAC Diff
Entries 248736
BBC-S TAC Diff
ZDC TAC Diff
Entries 248736
VPD TAC Diff
ZDC TAC Diff

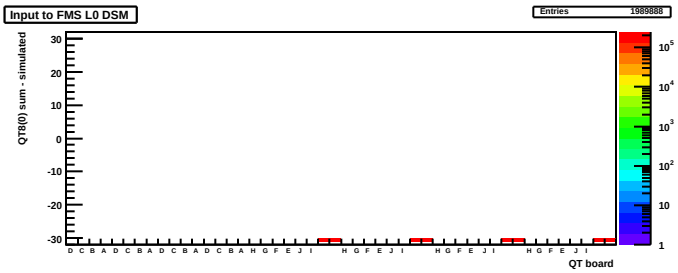

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

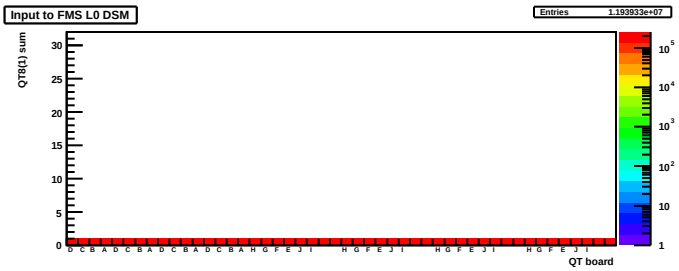

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

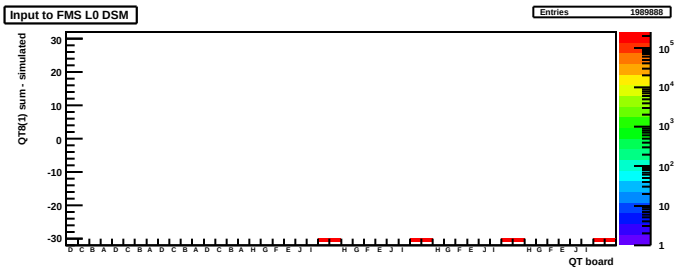

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

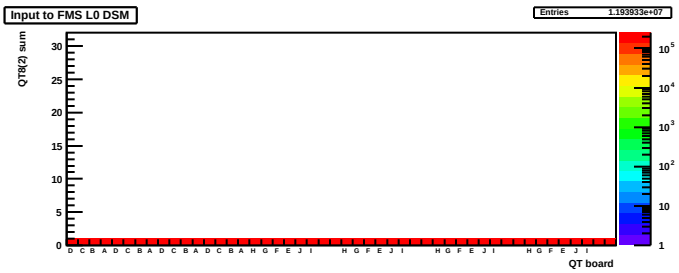

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

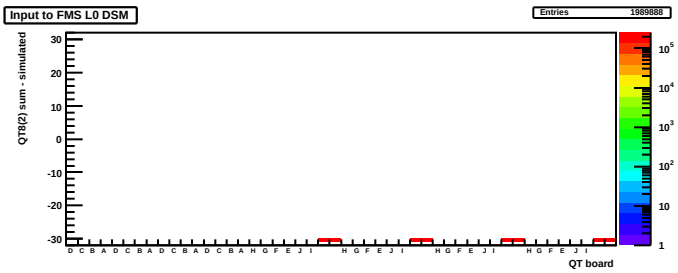

Input to FMS L0 DSM
Entries 1.193933e+07
QT8(0) sum
QT board

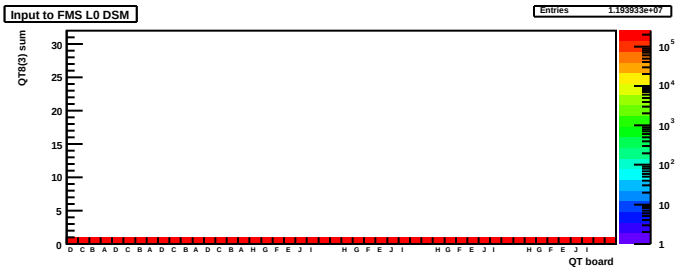

Input to FMS L0 DSM
Entries 1989888
QT8(0) sum - simulated
QT board

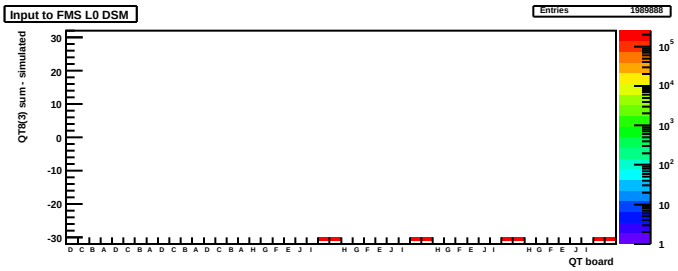

Input to FMS L0 DSM
Entries 1.193933e+07
QT8(1) sum
QT board

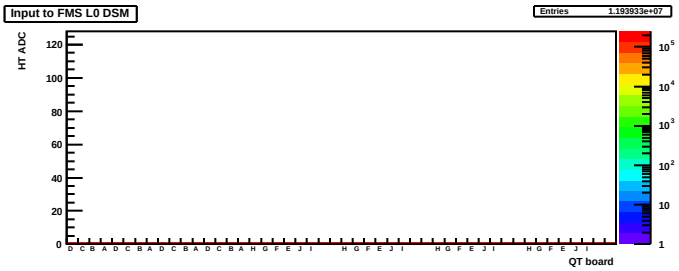

Input to FMS L0 DSM
Entries 1989888
QT8(1) sum - simulated
QT board

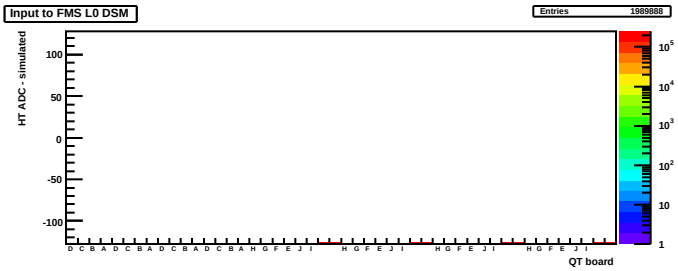

Input to FMS L0 DSM
Entries 1.193933e+07
QT8(2) sum
QT board

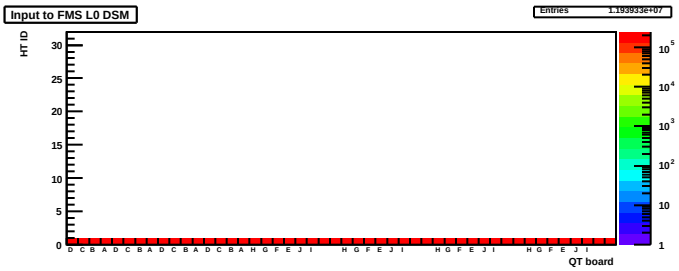

Input to FMS L0 DSM
Entries 1989888
QT8(2) sum - simulated
QT board

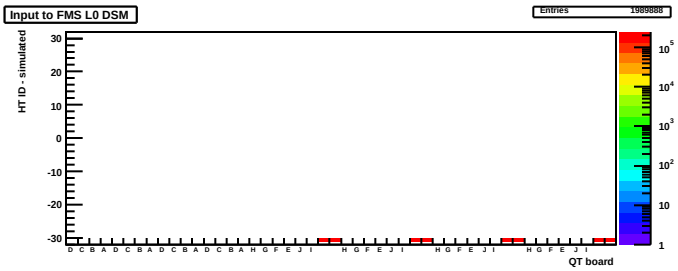

Input to FMS L0 DSM
Entries 1.193933e+07
QT8(3) sum
QT board

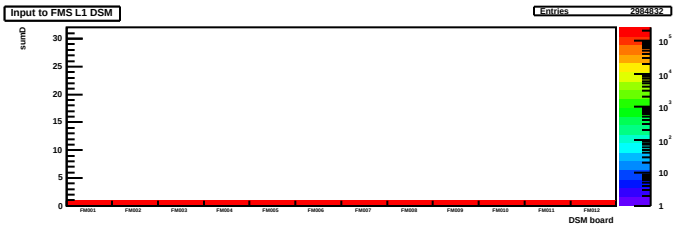

Input to FMS L0 DSM
Entries 1989888
QT8(3) sum - simulated
QT board

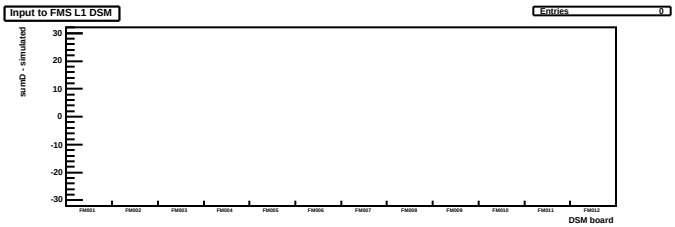

Input to FMS L0 DSM
Entries 1.193933e+07
HT ADC
QT board

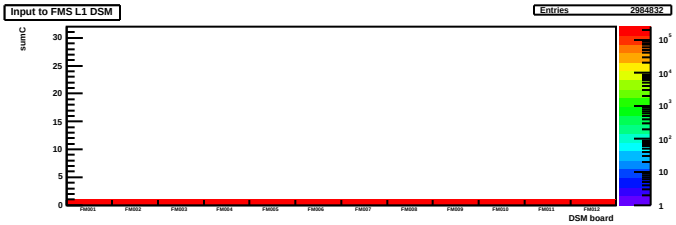

Input to FMS L0 DSM
Entries 1989888
HT ADC - simulated
QT board

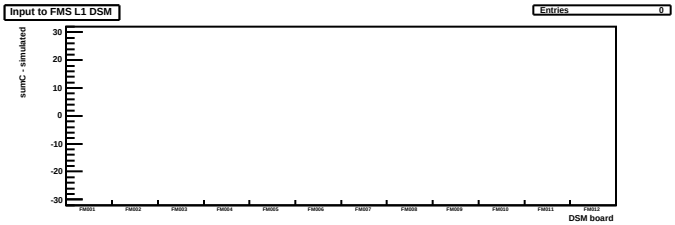

Input to FMS L0 DSM
Entries 1.193933e+07
HT ID
QT board

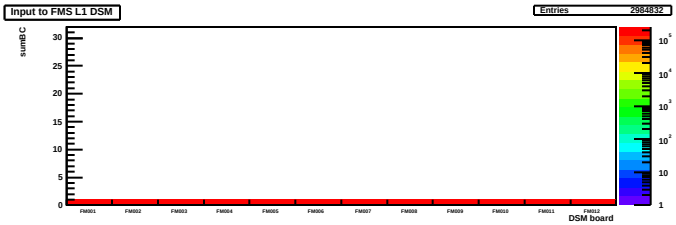

Input to FMS L0 DSM
Entries 1989888
HT ID - simulated
QT board

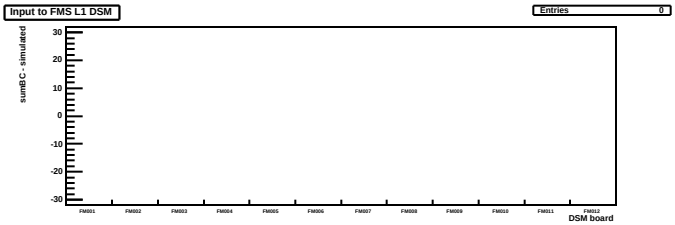

Input to FMS L1 DSM
Entries 2984832
sumD
DSM board

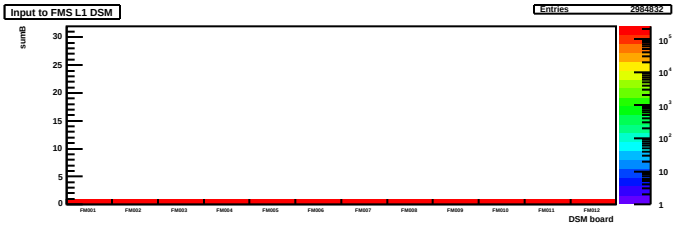

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

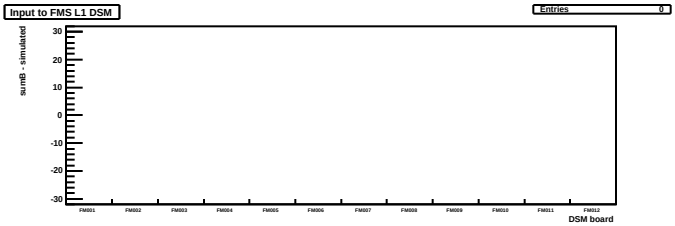

Input to FMS L1 DSM
Entries 2984832
sumC
DSM board

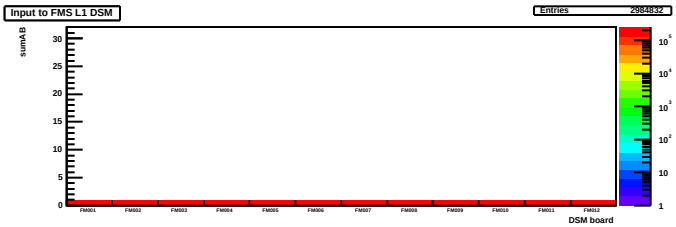

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

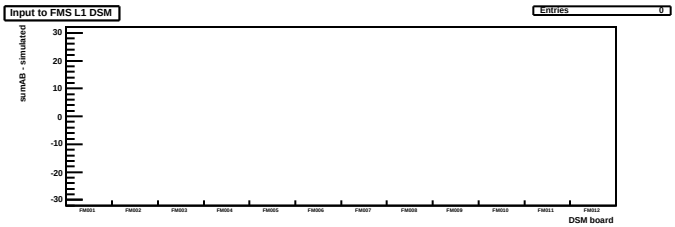

Input to FMS L1 DSM
Entries 2984832
sumBC
DSM board

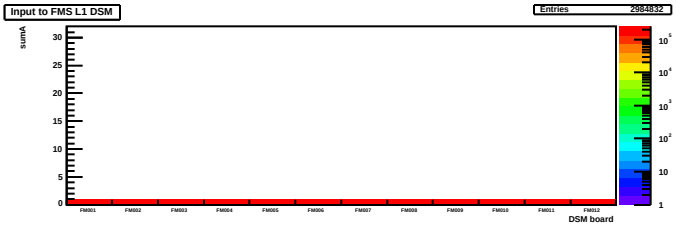

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

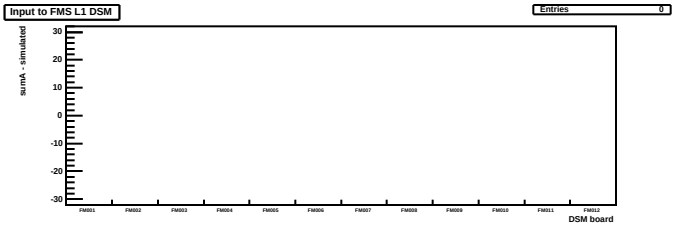

Input to FMS L1 DSM
Entries 2984832
sumB
DSM board

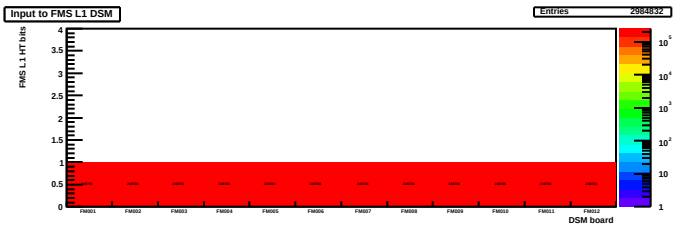

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

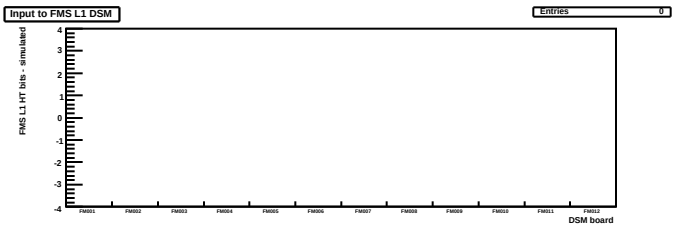

Input to FMS L1 DSM
Entries 2984832
sumAB
DSM board

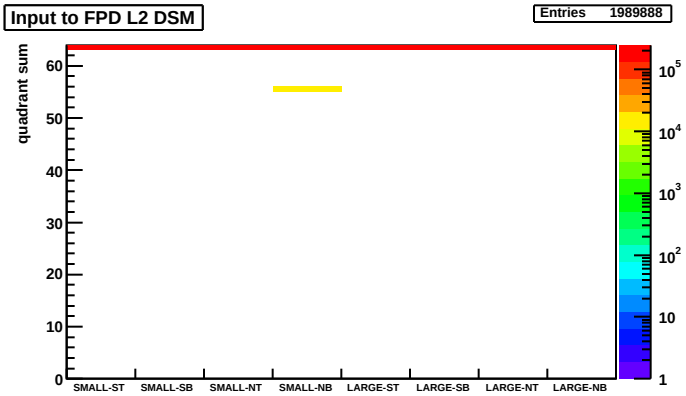

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

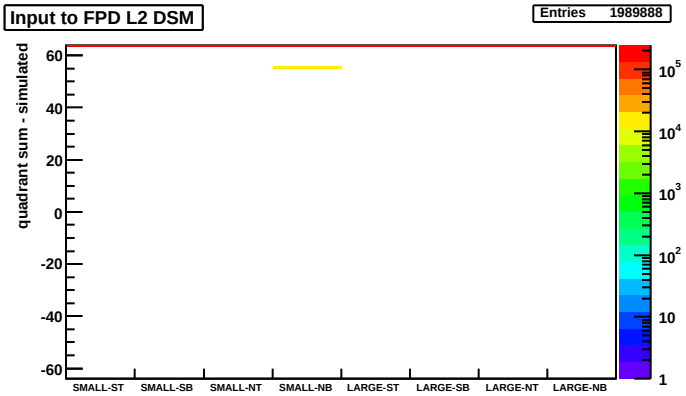

Input to FMS L1 DSM
Entries 2984832
sumA
DSM board

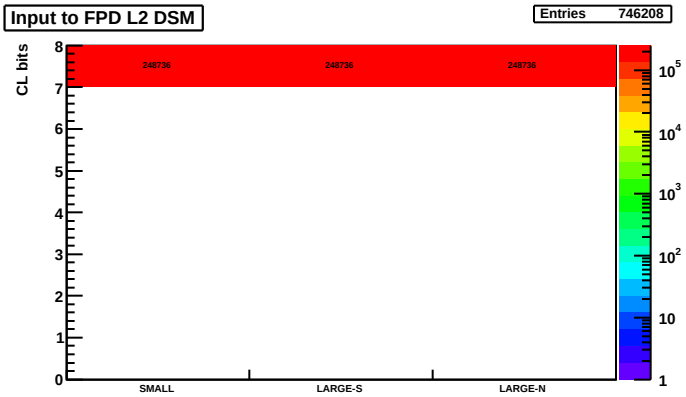

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

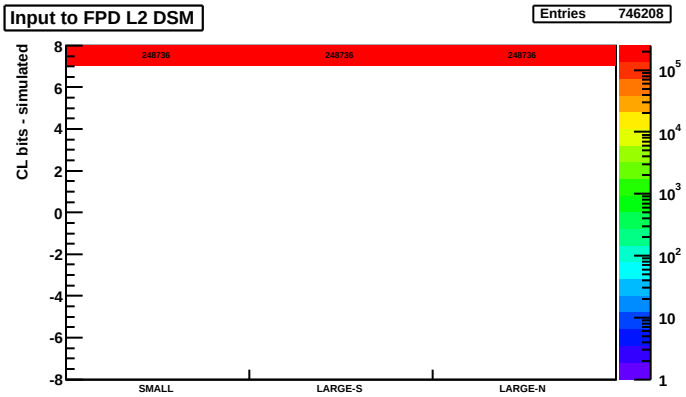

Input to FMS L1 DSM
Entries 2984832
FMS L1 HT bits
DSM board

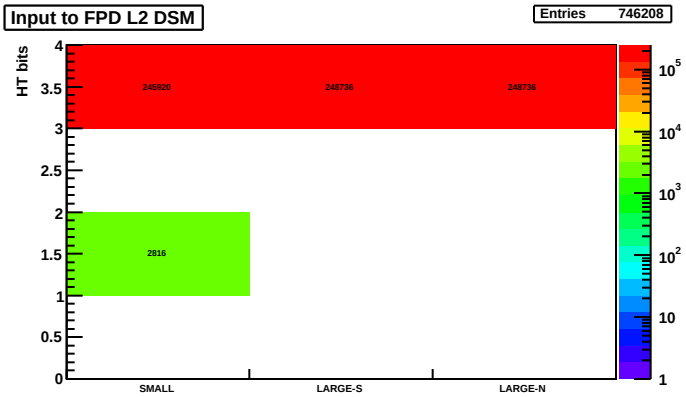

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

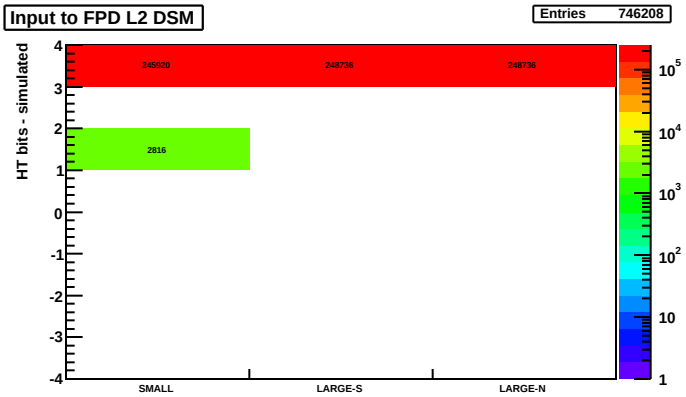

Input to FPD L2 DSM
Entries 1989888
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

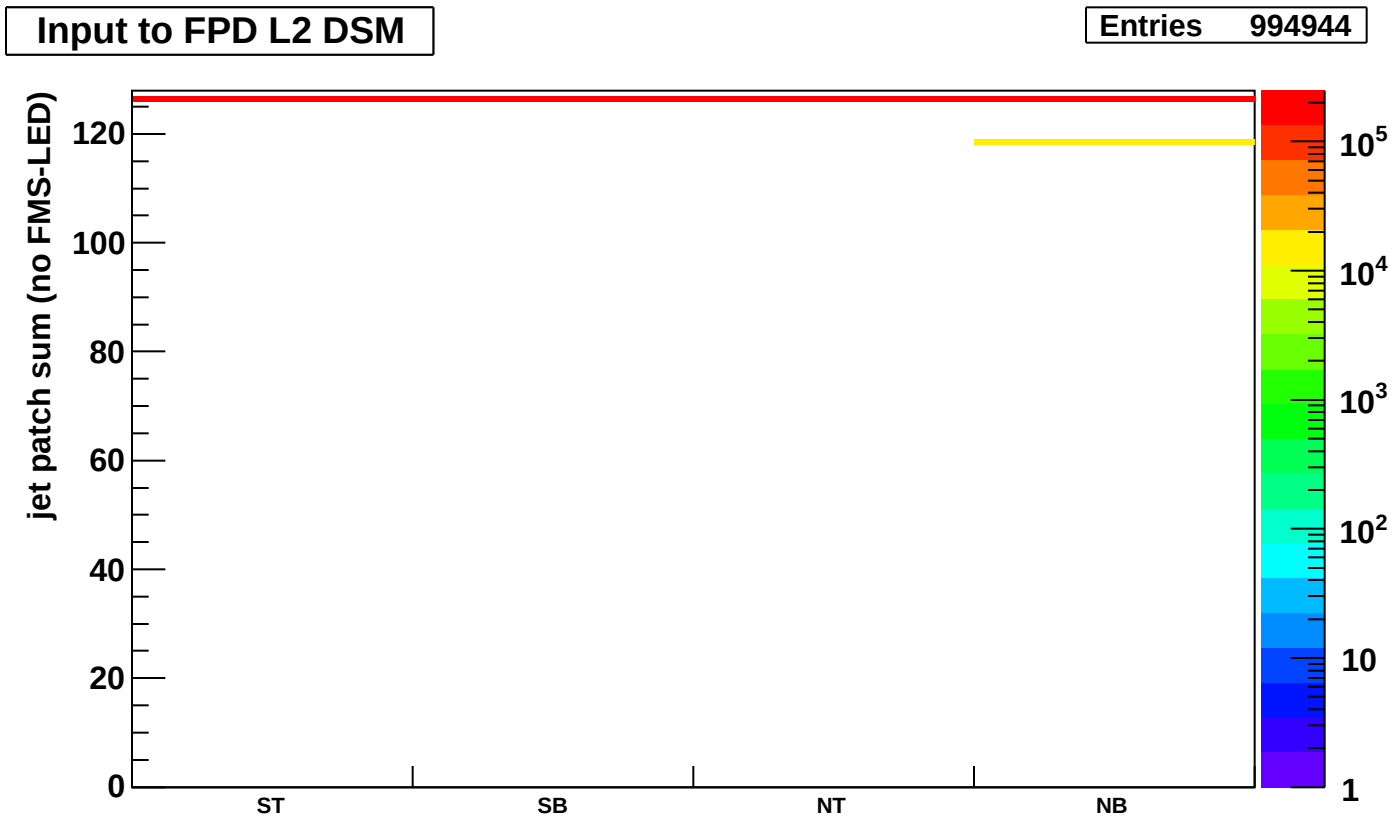

Input to FPD L2 DSM
Entries 1989888
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

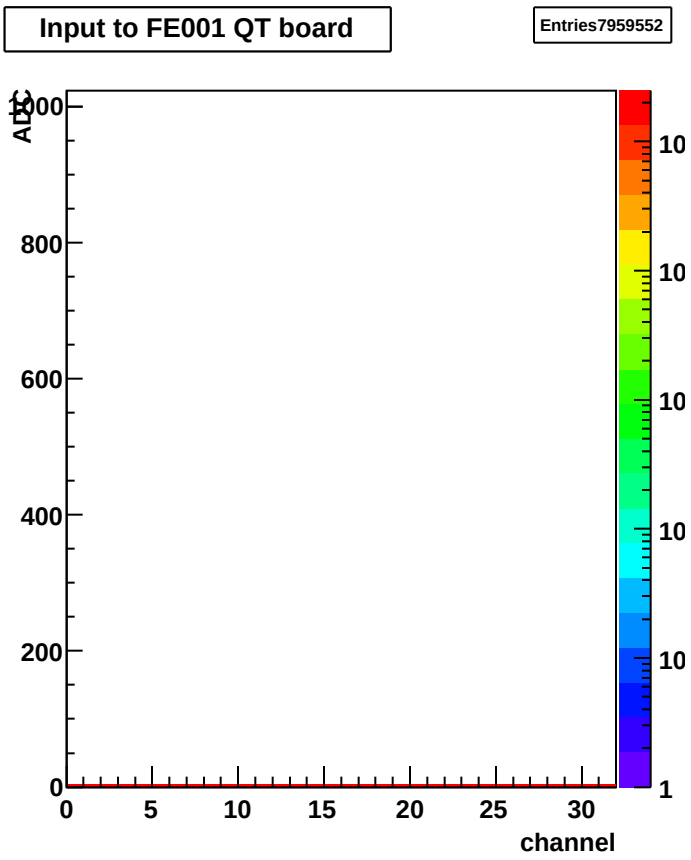

Input to FPD L2 DSM
Entries 746208
CL bits
248736
248736
248736
SMALL
LARGE-S
LARGE-N

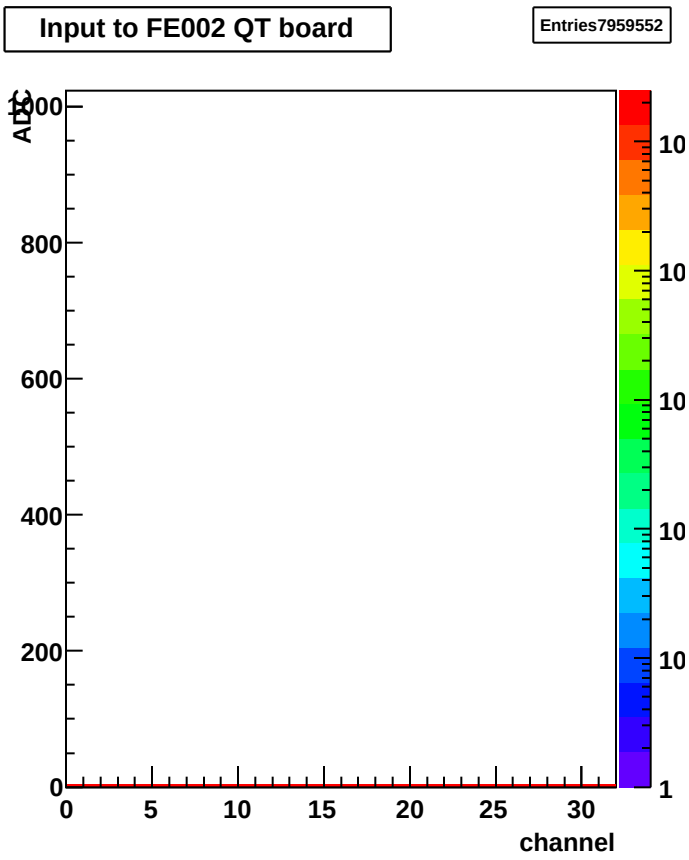

Input to FPD L2 DSM
Entries 746208
CL bits - simulated
248736
248736
248736
SMALL
LARGE-S
LARGE-N

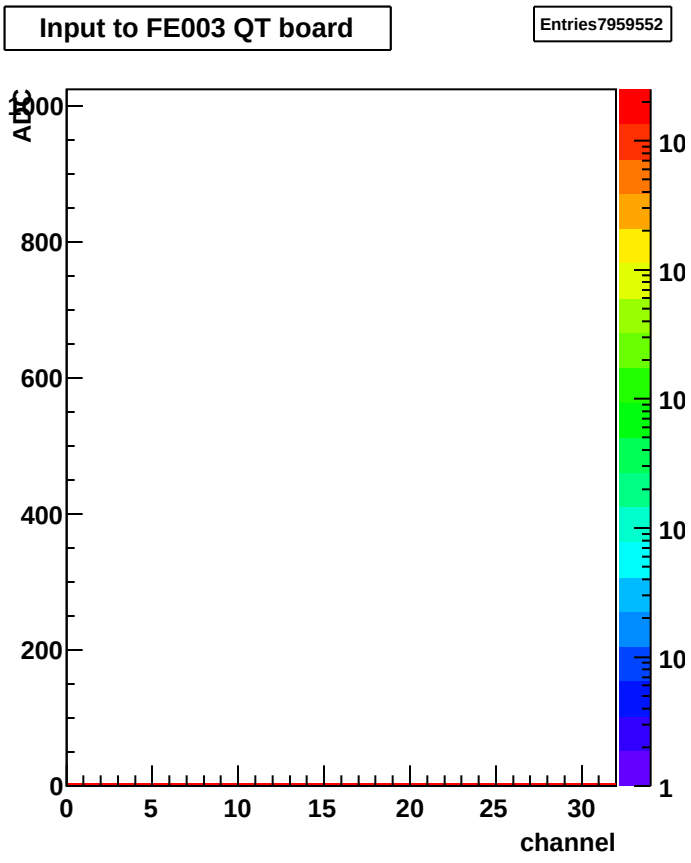

Input to FPD L2 DSM
Entries 746208
HT bits
245920
248736
248736
2816
SMALL
LARGE-S
LARGE-N

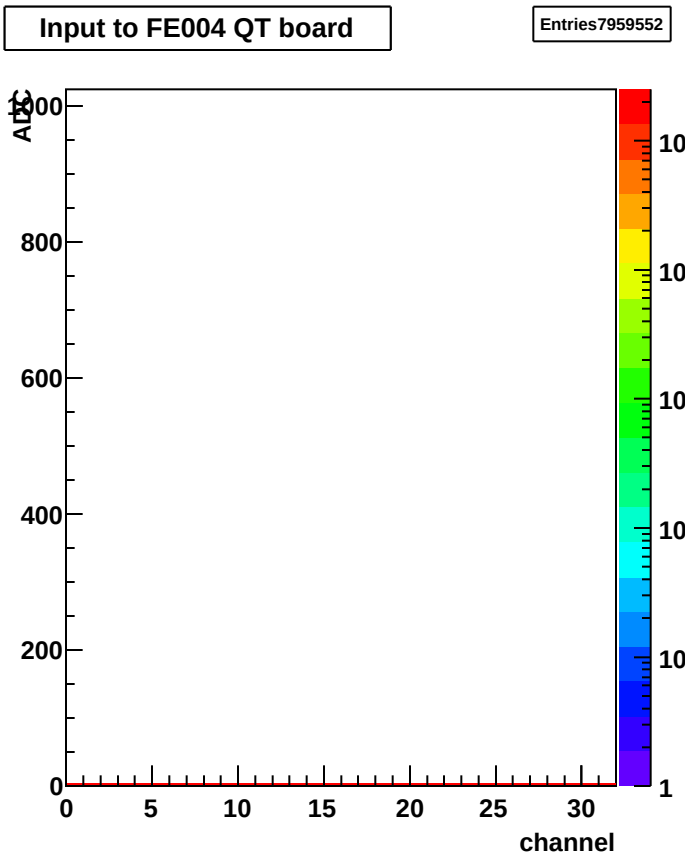

Input to FPD L2 DSM
Entries 746208
HT bits - simulated
245920
248736
248736
2816
SMALL
LARGE-S
LARGE-N

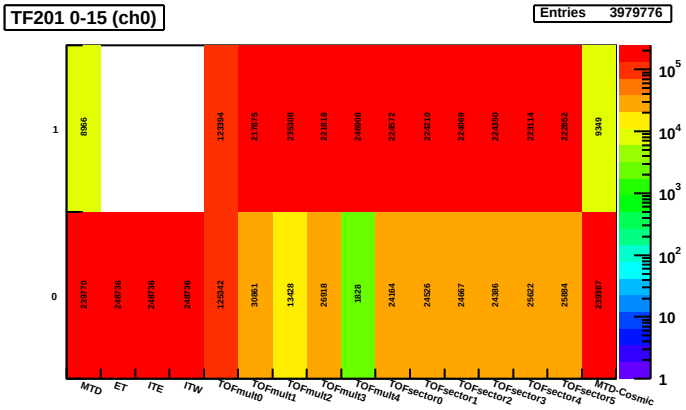

Input to FPD L2 DSM
Entries 994944
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

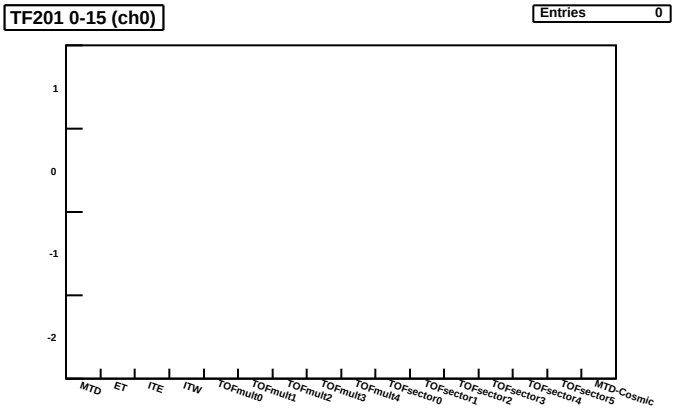

Input to FE001 QT board
Entries7959552
ADC
channel

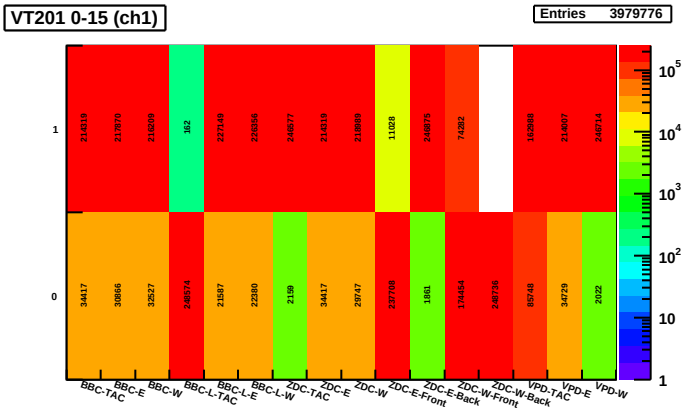

Input to FE002 QT board
Entries7959552
ADC
channel

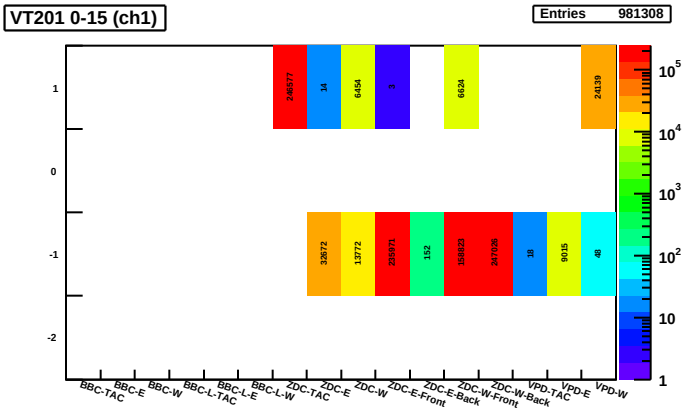

Input to FE003 QT board
Entries7959552
ADC
channel

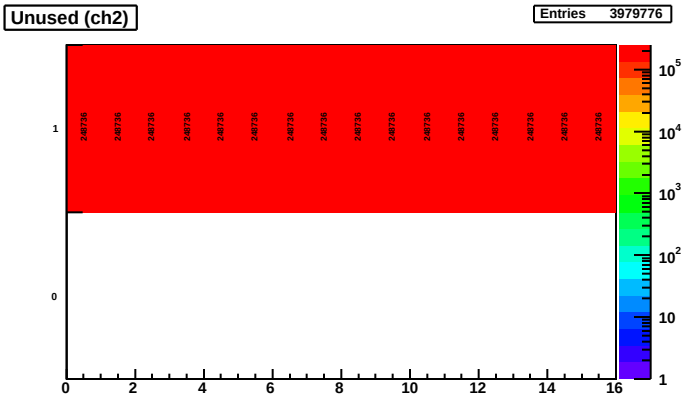

Input to FE004 QT board
Entries7959552
ADC
channel

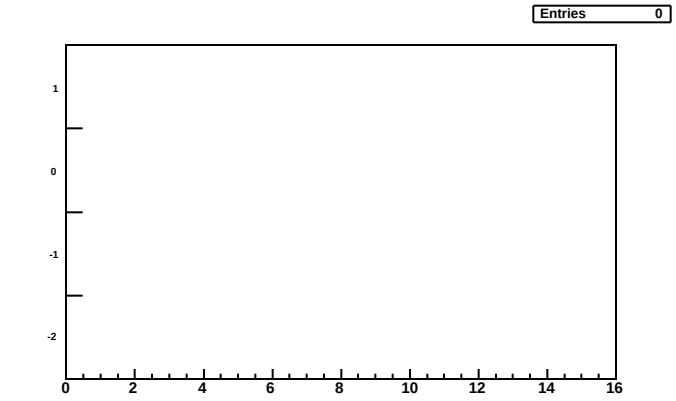

TF201 0-15 (ch0)
Entries 3979776
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

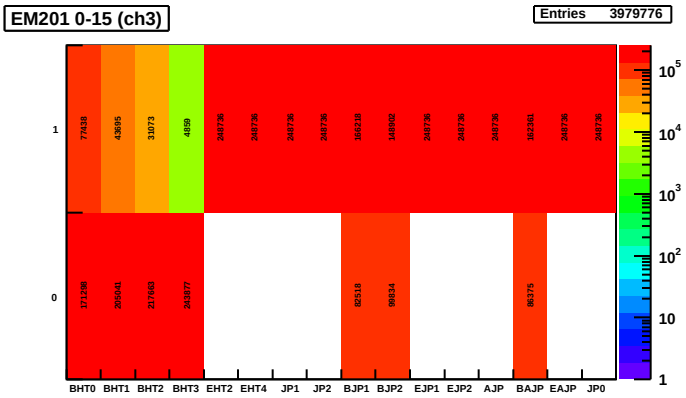

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

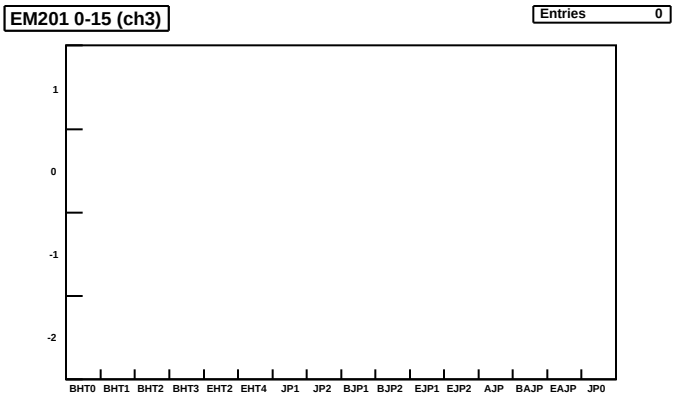

VT201 0-15 (ch1)
Entries 3979776
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

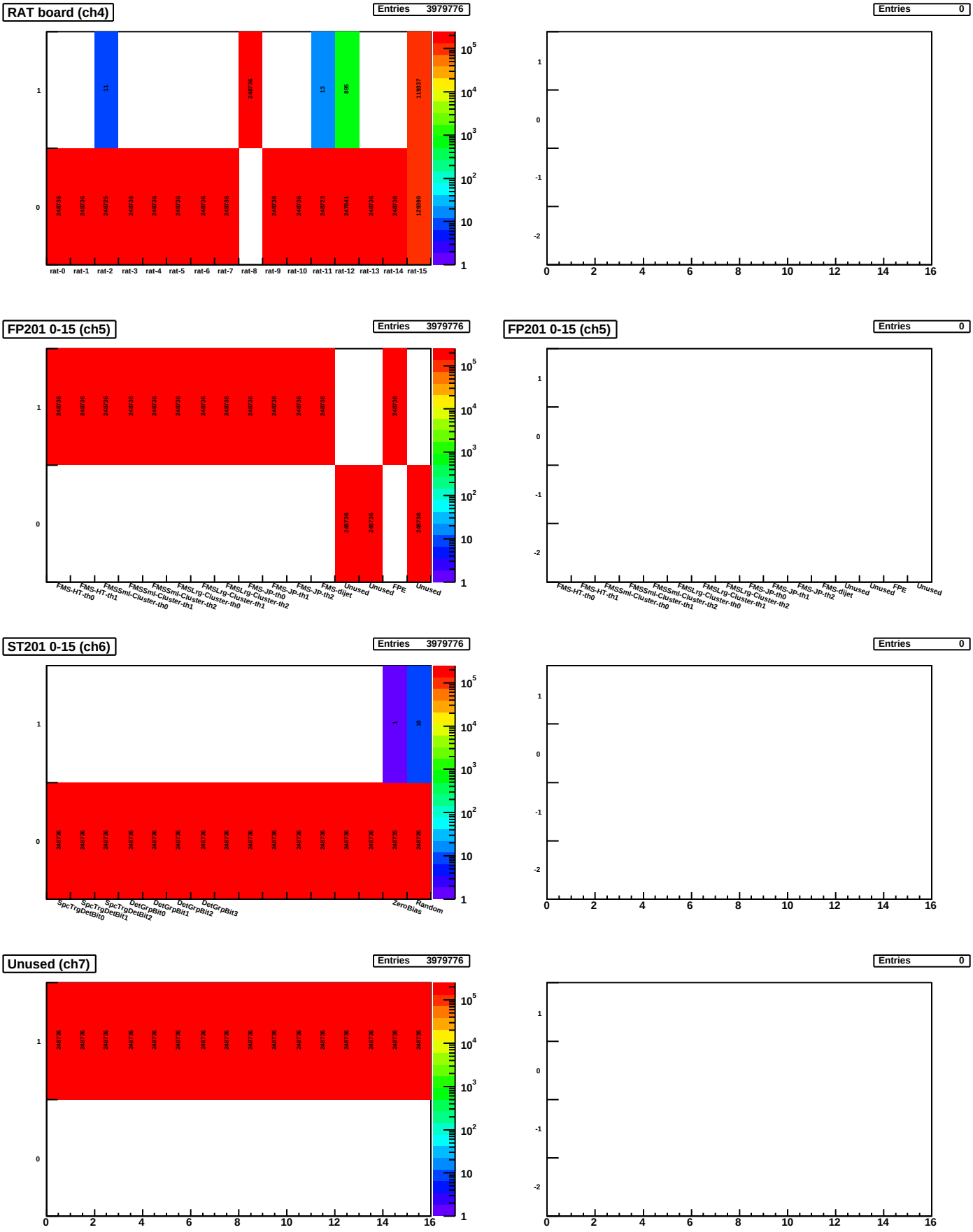

VT201 0-15 (ch1)
Entries 981308
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 3979776


Entries 0


EM201 0-15 (ch3)
Entries 3979776
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


RAT board (ch4)
Entries 3979776
Entries 0
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15
FP201 0-15 (ch5)
Entries 3979776
Entries 0
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 FMSSml-Cluster-th2 FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-diJet Unused Unused FPE Unused
ST201 0-15 (ch6)
Entries 3979776
Entries 0
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random
Unused (ch7)
Entries 3979776
Entries 0