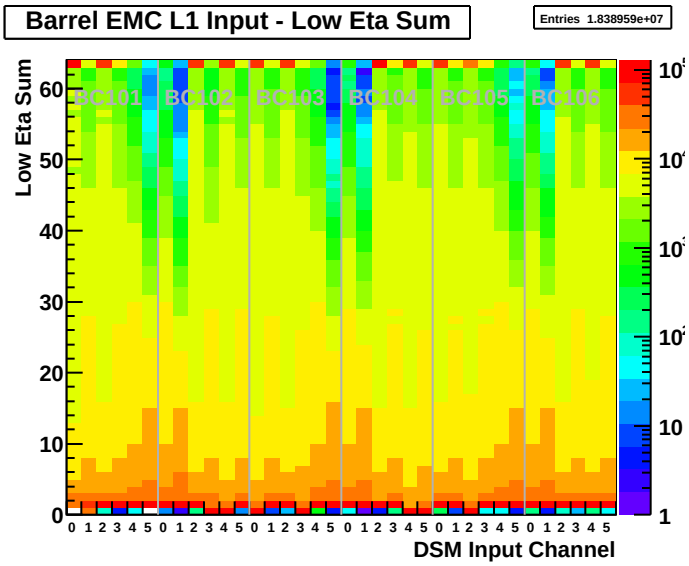
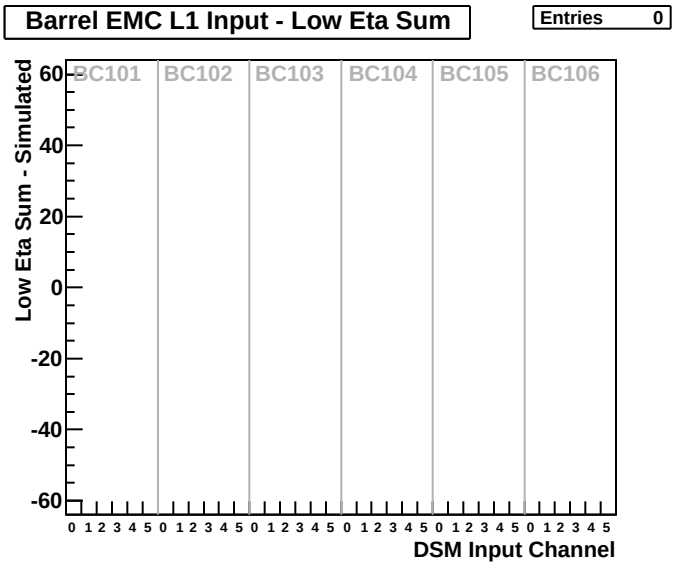
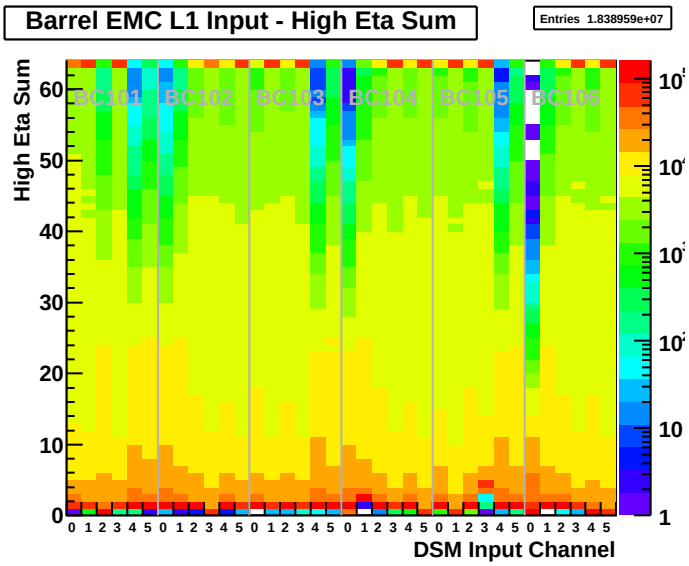
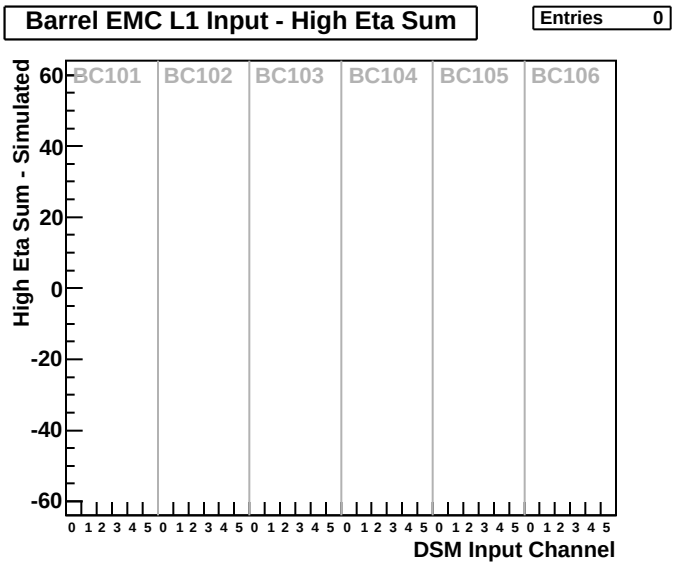
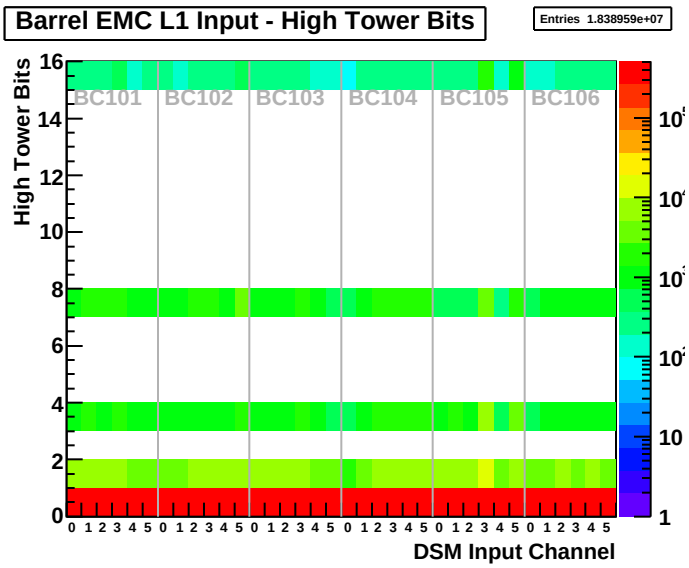
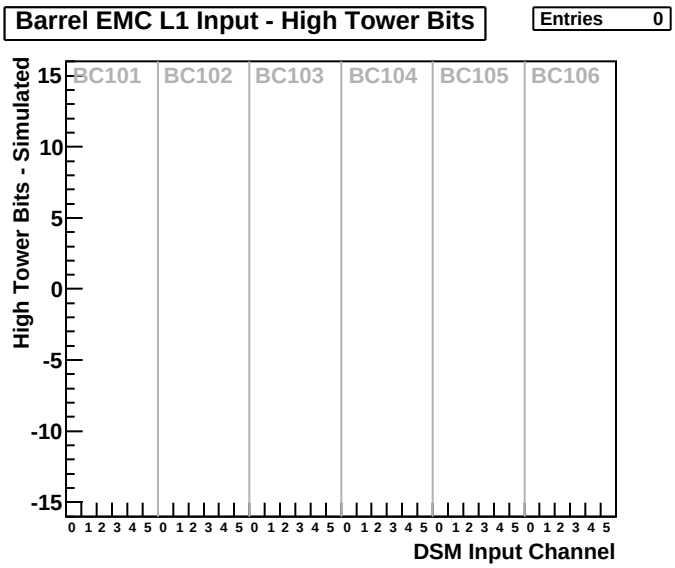

Barrel EMC L1 Input - Low Eta Sum
Entries 1.838959e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

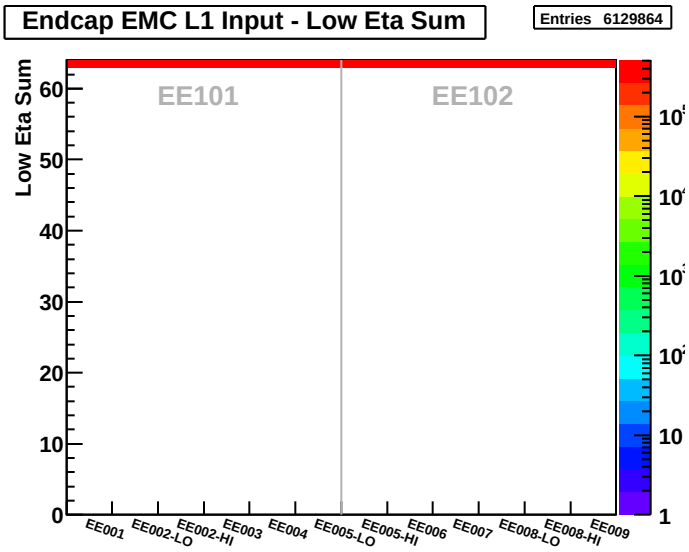

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

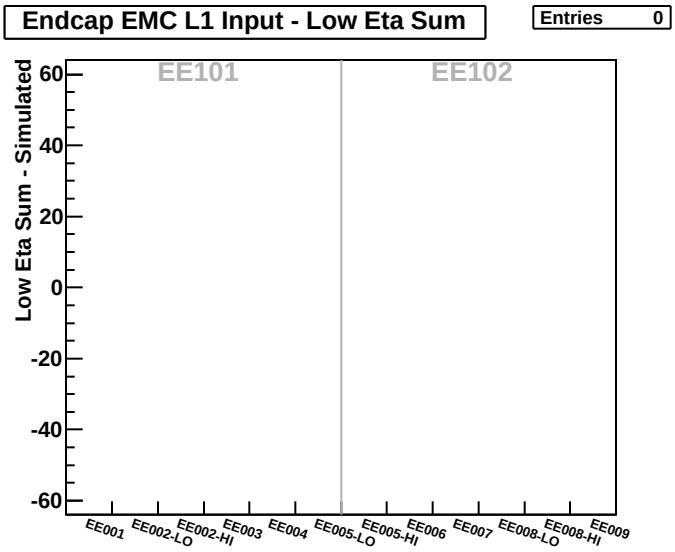

Barrel EMC L1 Input - High Eta Sum
Entries 1.838959e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

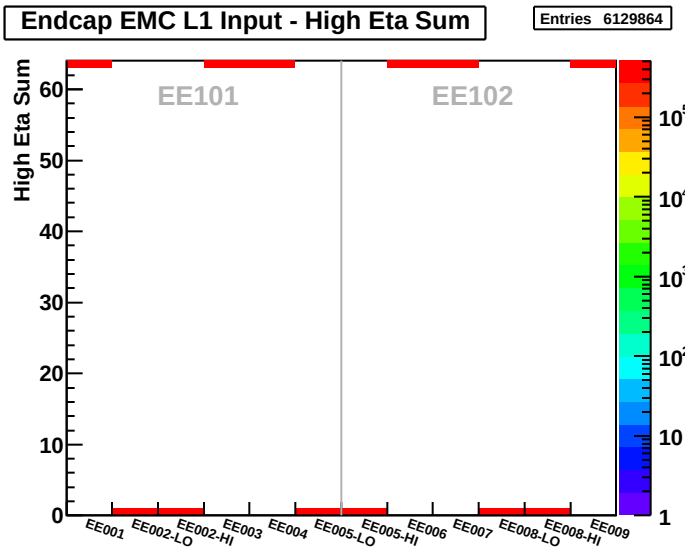

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

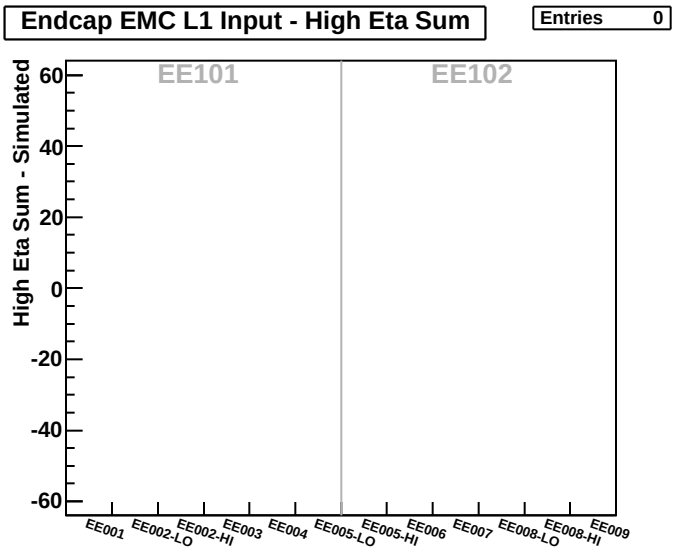

Barrel EMC L1 Input - High Tower Bits
Entries 1.838959e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

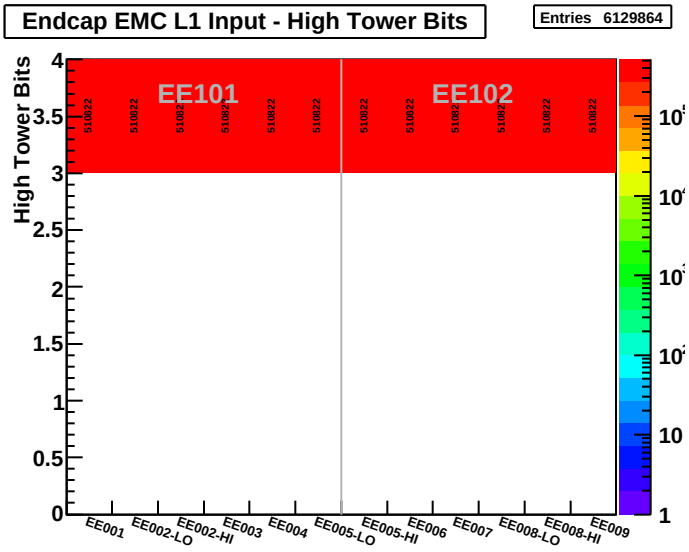

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

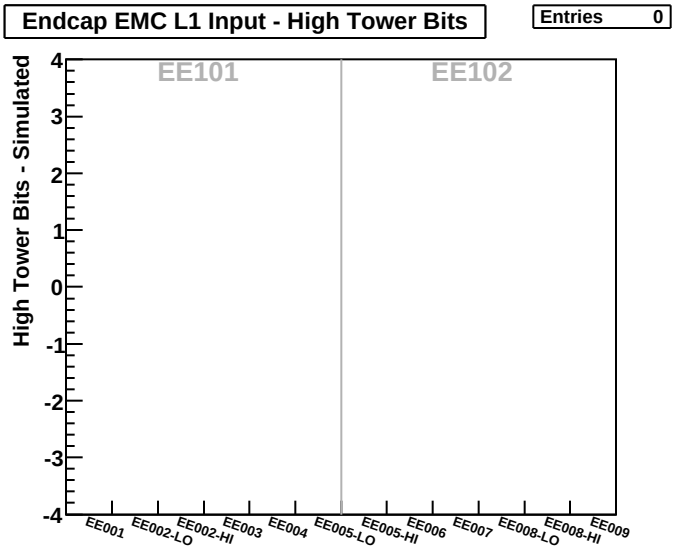

Endcap EMC L1 Input - Low Eta Sum
Entries 6129864
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

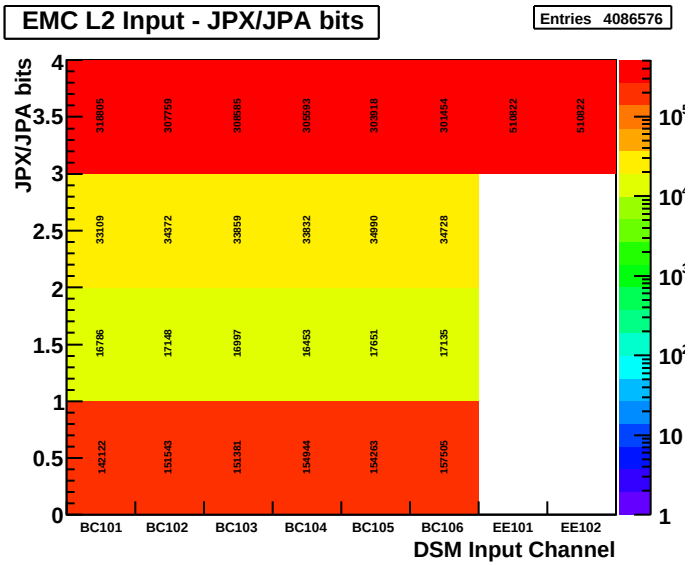

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

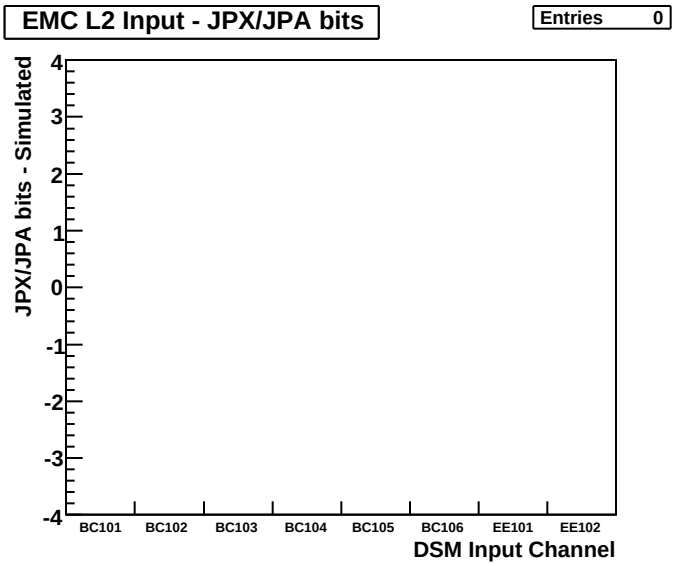

Endcap EMC L1 Input - High Eta Sum
Entries 6129864
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

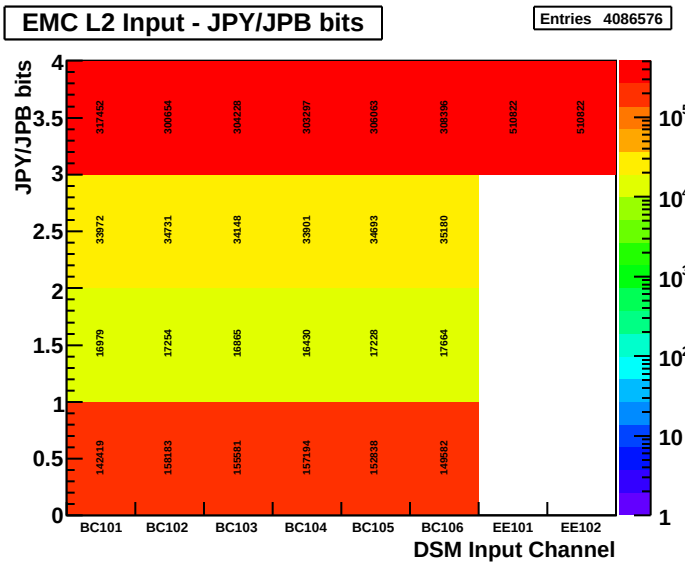

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

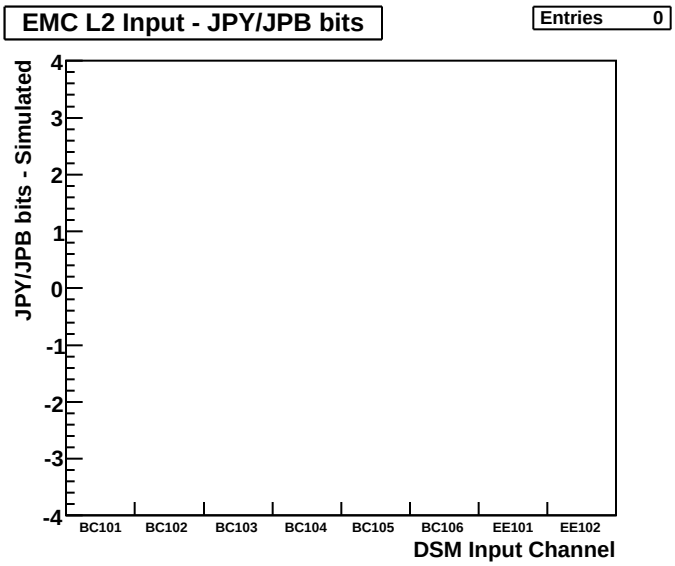

Endcap EMC L1 Input - High Tower Bits
Entries 6129864
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

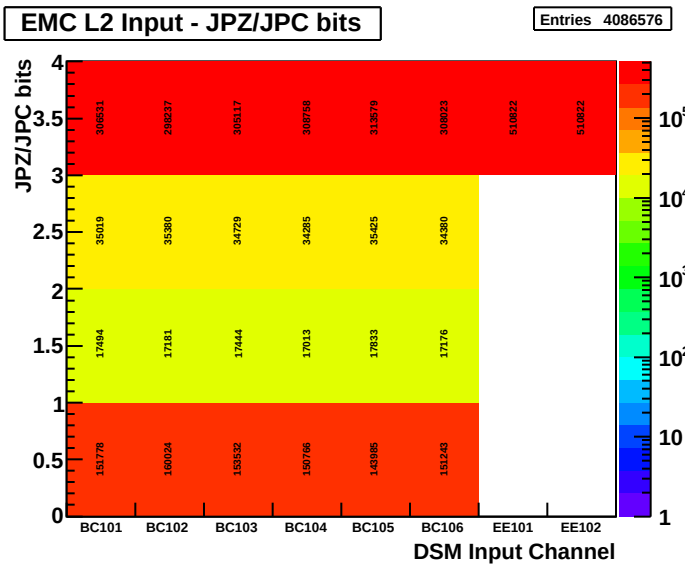

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

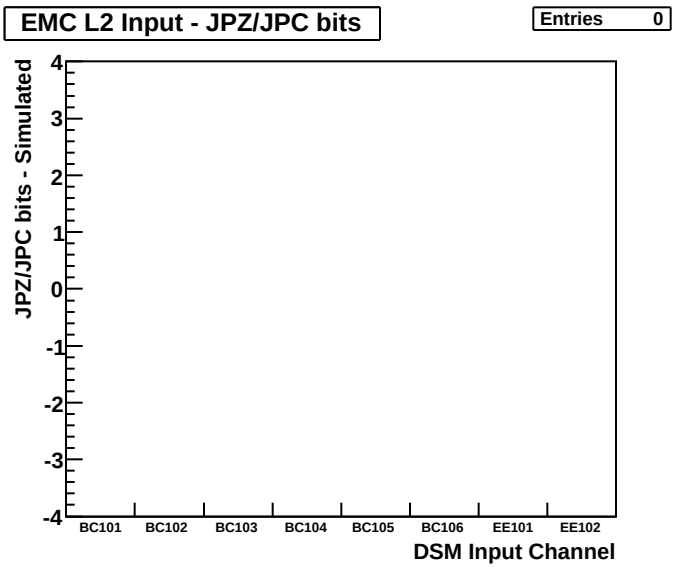

EMC L2 Input - JPX/JPA bits
Entries 4086576
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
318805 307759 308585 305593 303818 301454 510822 510822
33109 34372 33859 33832 34090 34728
16786 17148 16997 16453 17651 17135
142122 151543 151381 154944 154263 157505

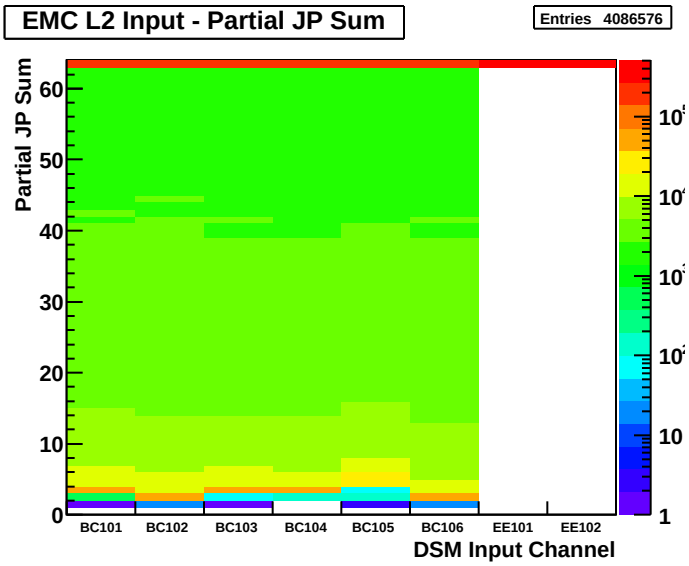

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

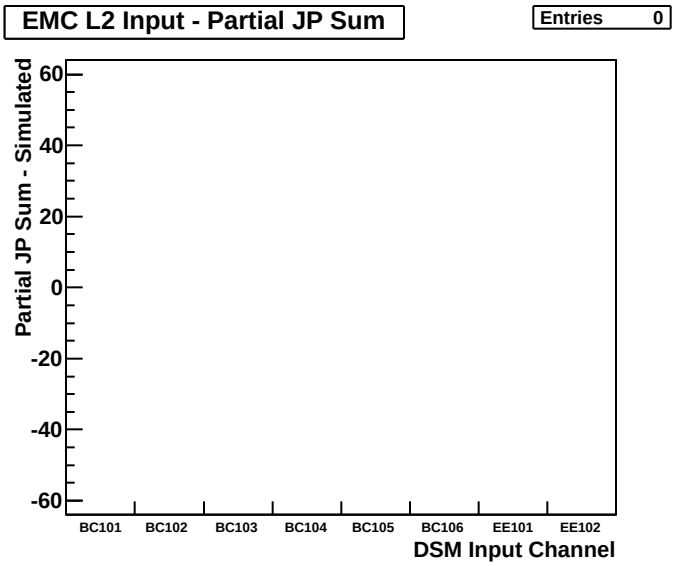

EMC L2 Input - JPY/JPB bits
Entries 4086576
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
317452 300654 304228 303297 306063 308396 510822 510822
33972 34731 34148 33901 34693 35180
16979 17254 16865 16430 17228 17664
142419 158183 155581 157194 152838 149582

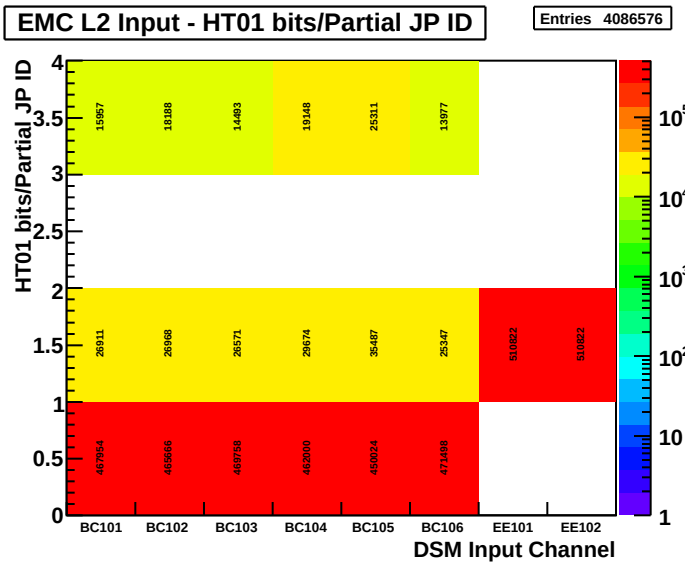

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

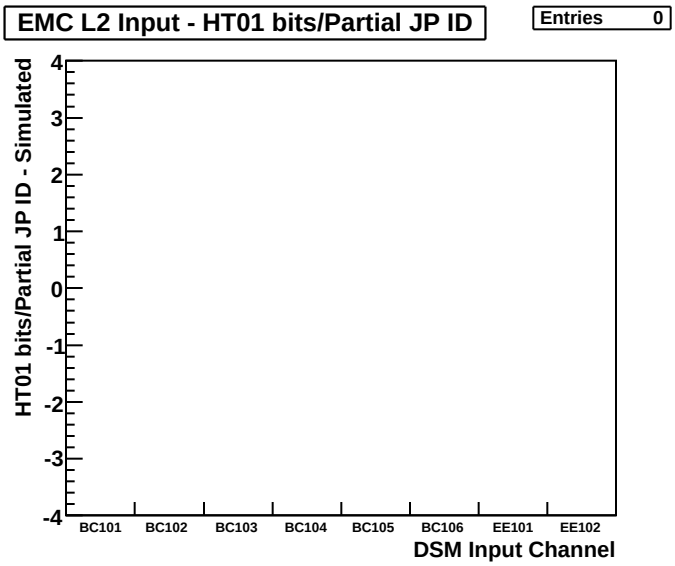

EMC L2 Input - JPZ/JPC bits
Entries 4086576
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
306531 298237 305117 308758 313579 309023 510822 510822
35019 35380 34729 34285 35425 34380
17494 17181 17444 17013 17833 17176
151778 160024 153532 150766 143985 151243

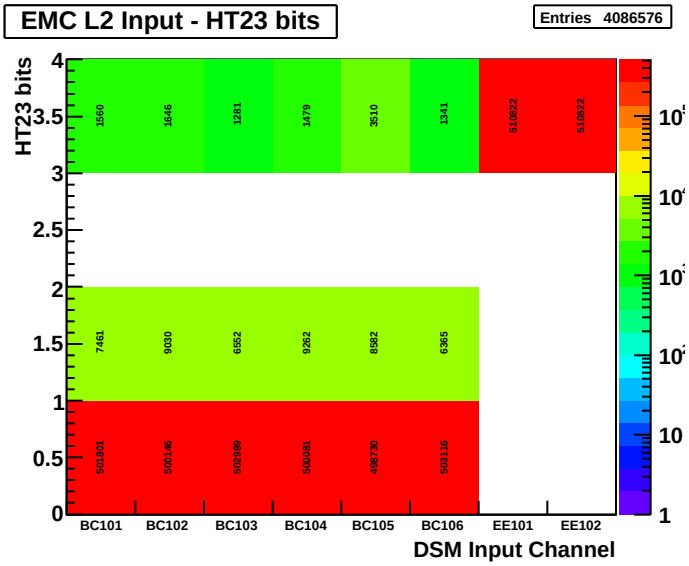

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

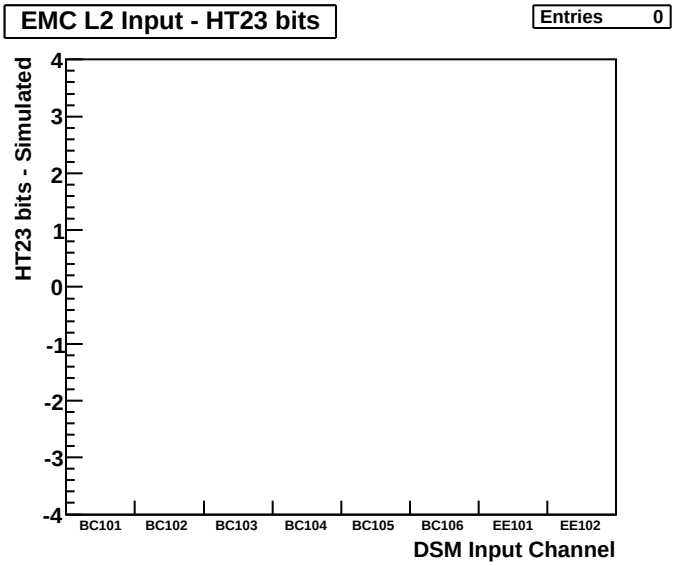

EMC L2 Input - Partial JP Sum
Entries 4086576
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

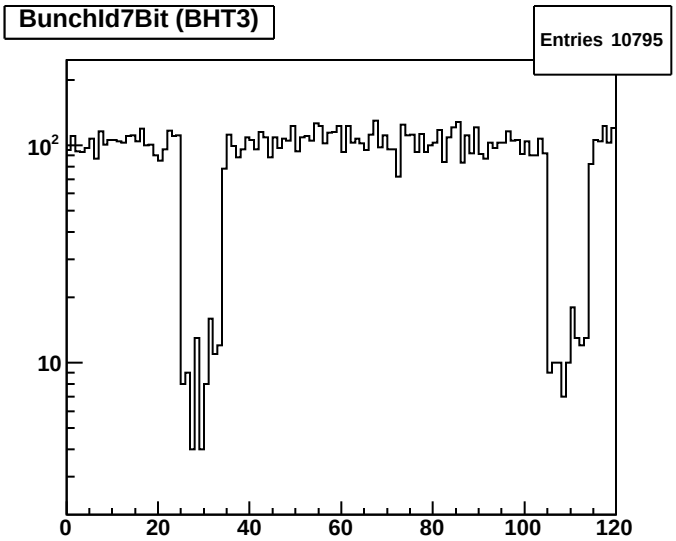

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

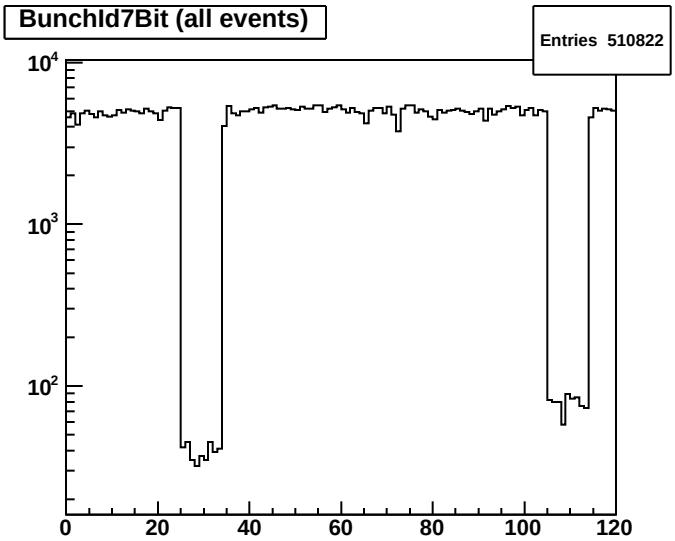

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4086576
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

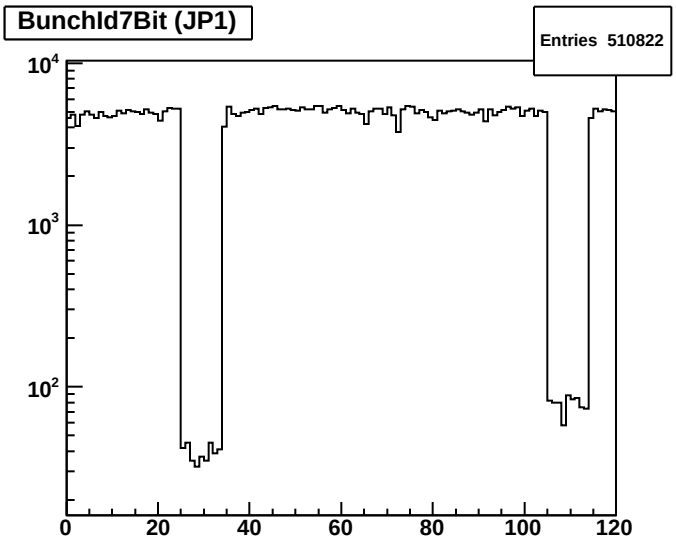

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

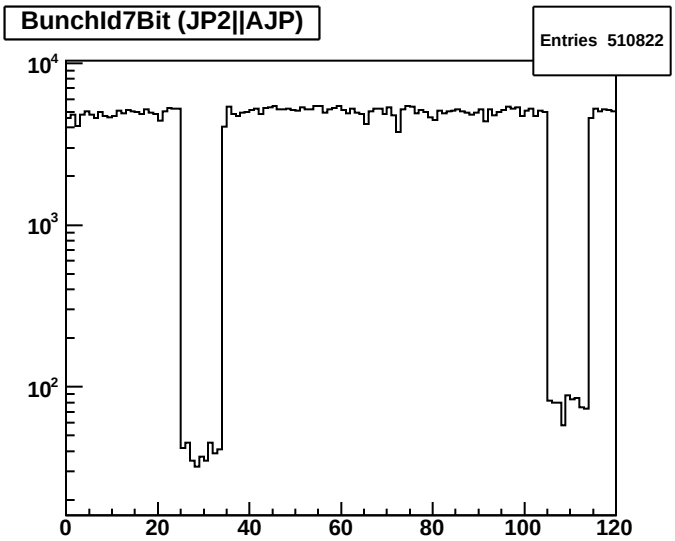

EMC L2 Input - HT23 bits
Entries 4086576
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

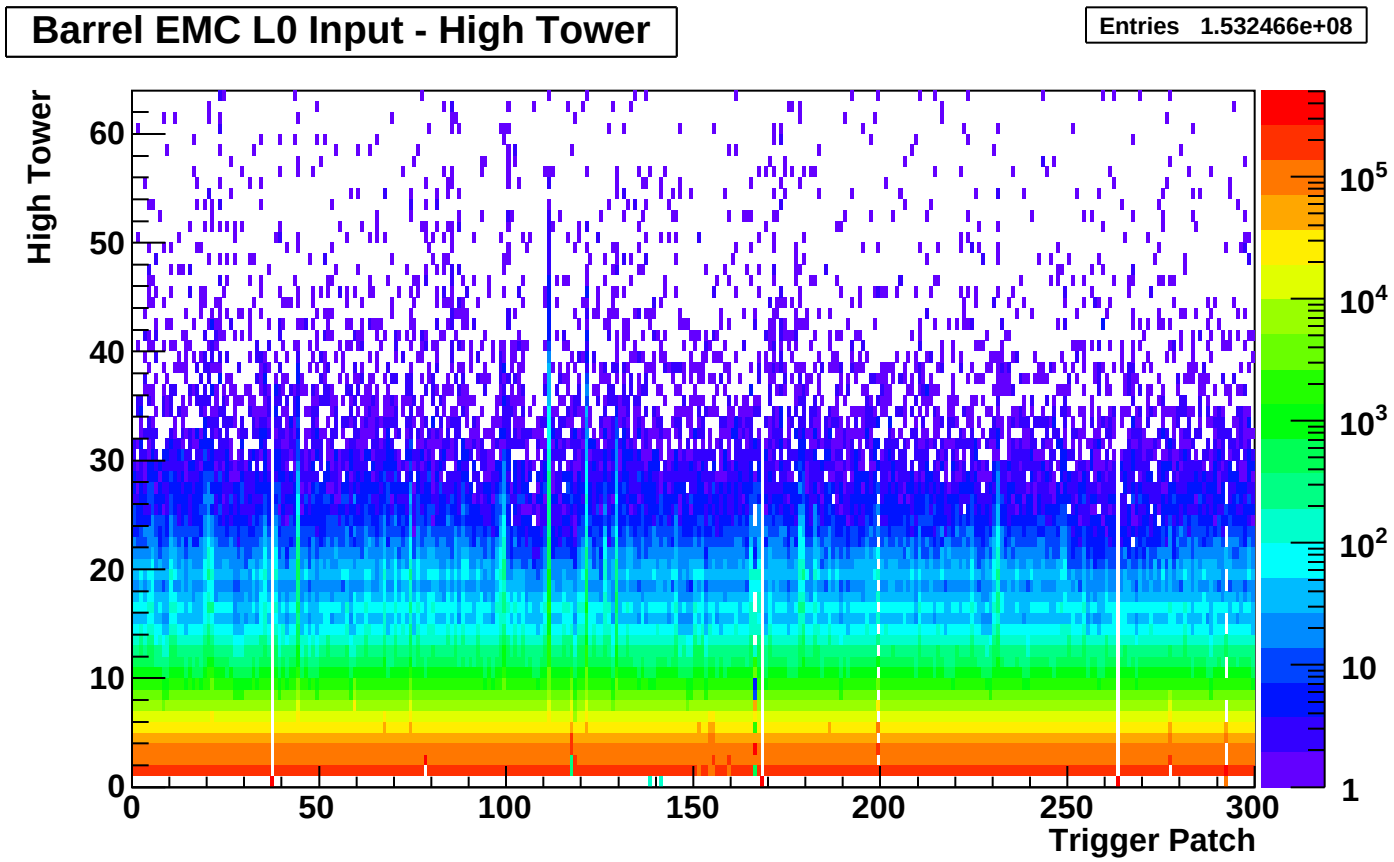

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

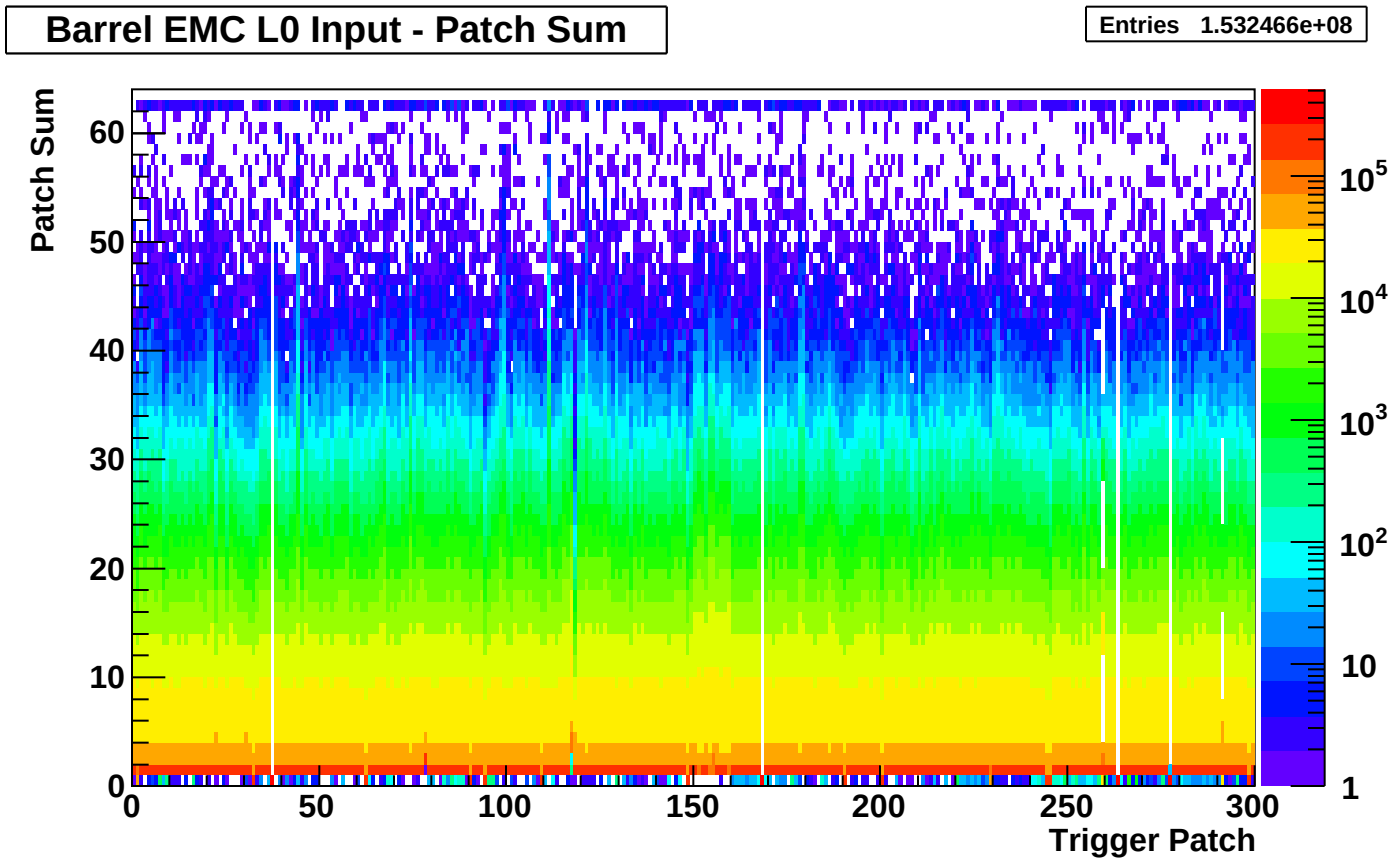

BunchId7Bit (BHT3)
Entries 10795
10^2
10
0
20
40
60
80
100
120

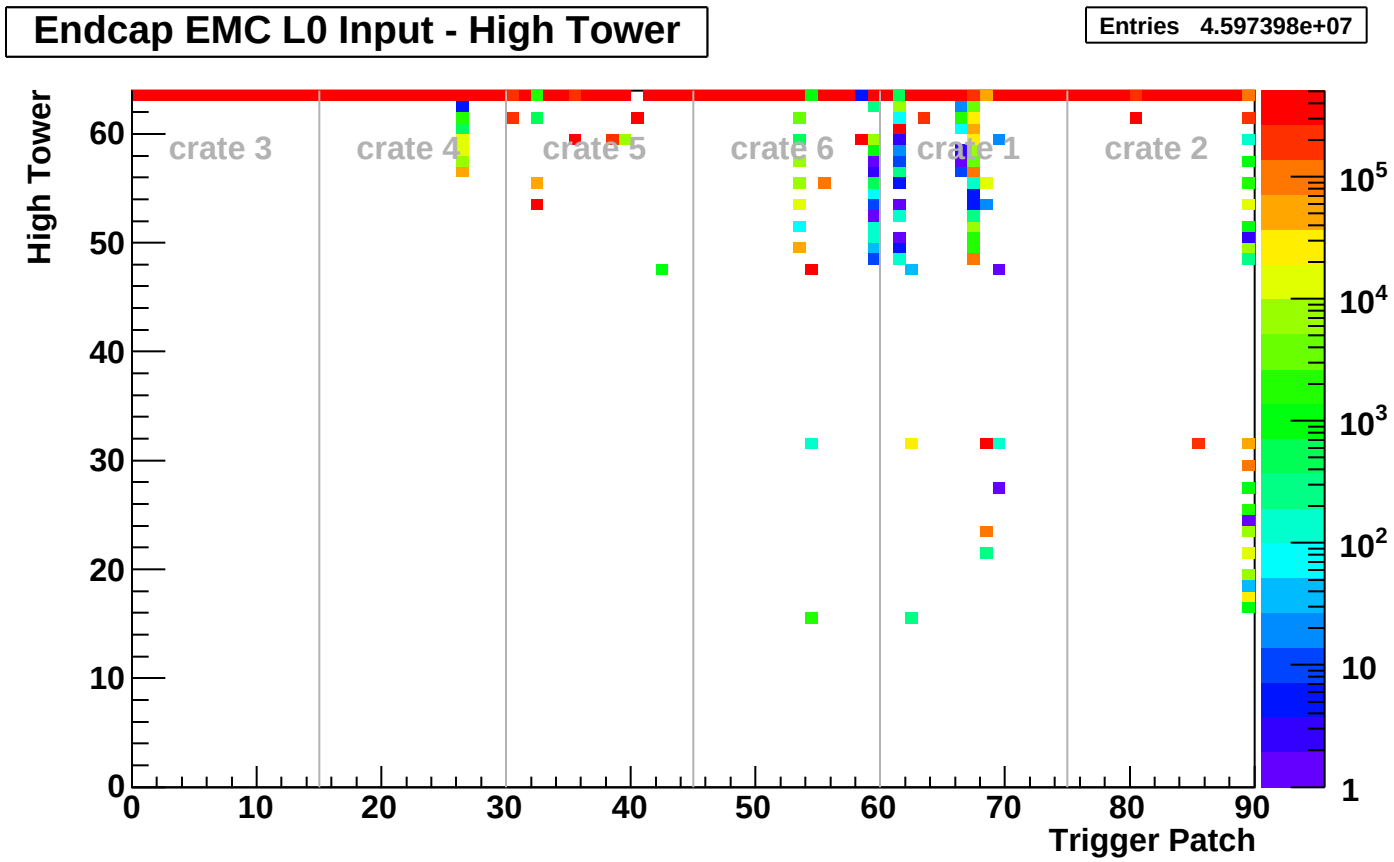

BunchId7Bit (all events)
Entries 510822
10^4
10^3
10^2
0
20
40
60
80
100
120

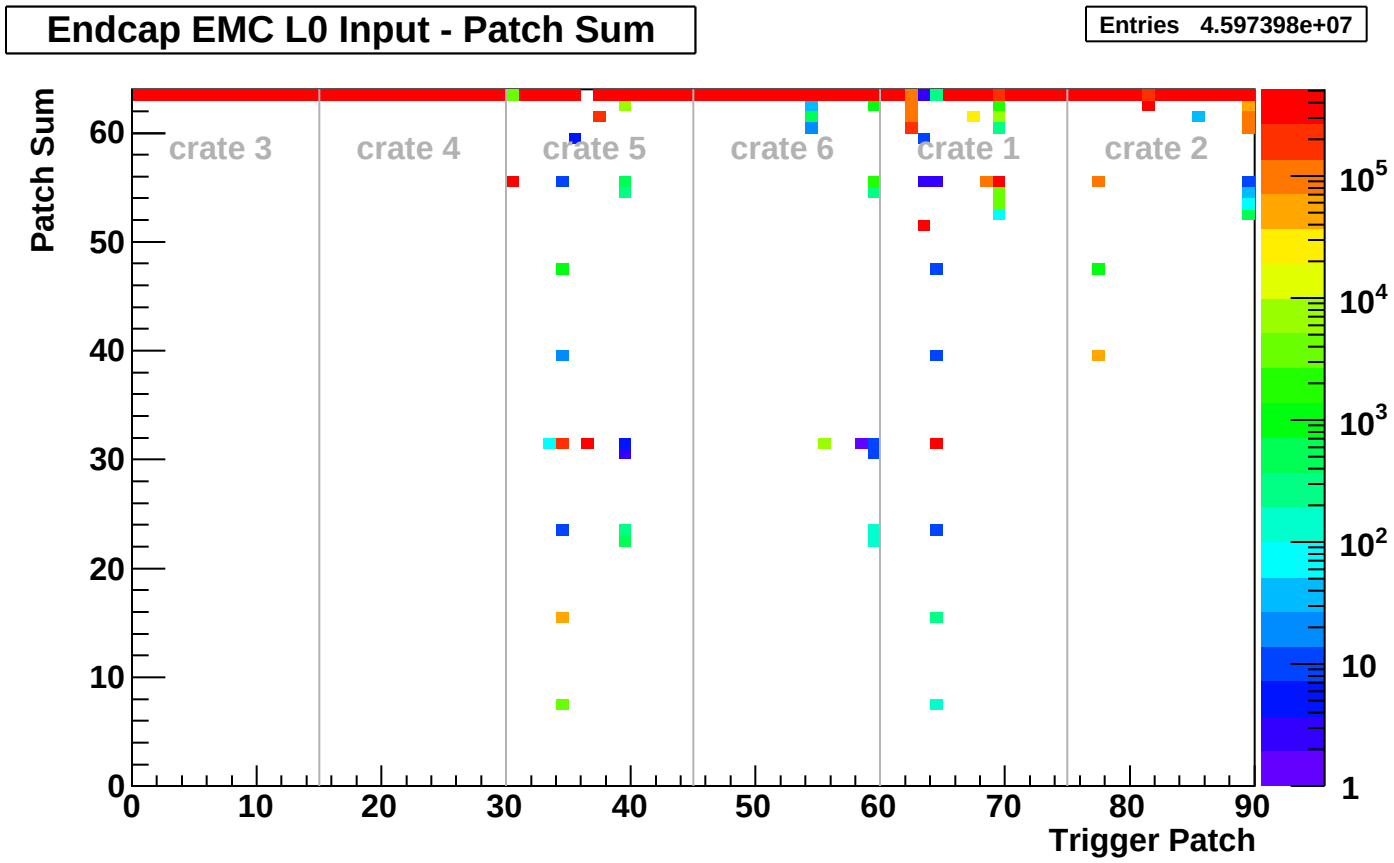

BunchId7Bit (JP1)
Entries 510822
10^4
10^3
10^2
0
20
40
60
80
100
120

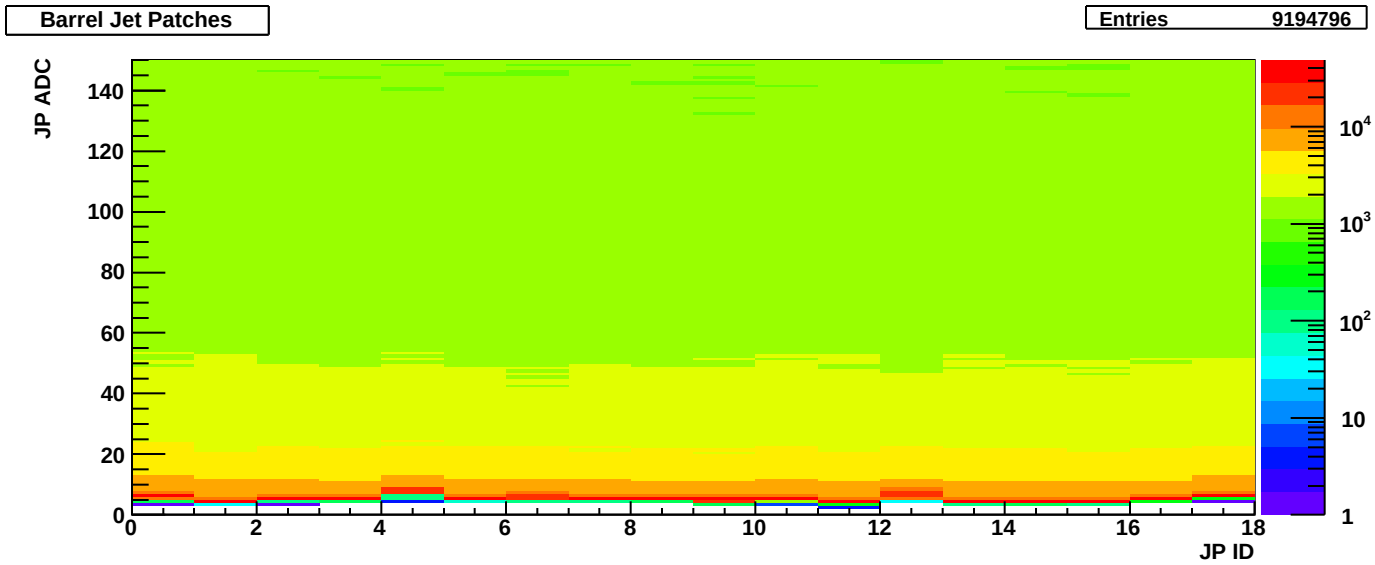

BunchId7Bit (JP2||AJP)
Entries 510822
10^4
10^3
10^2
0
20
40
60
80
100
120

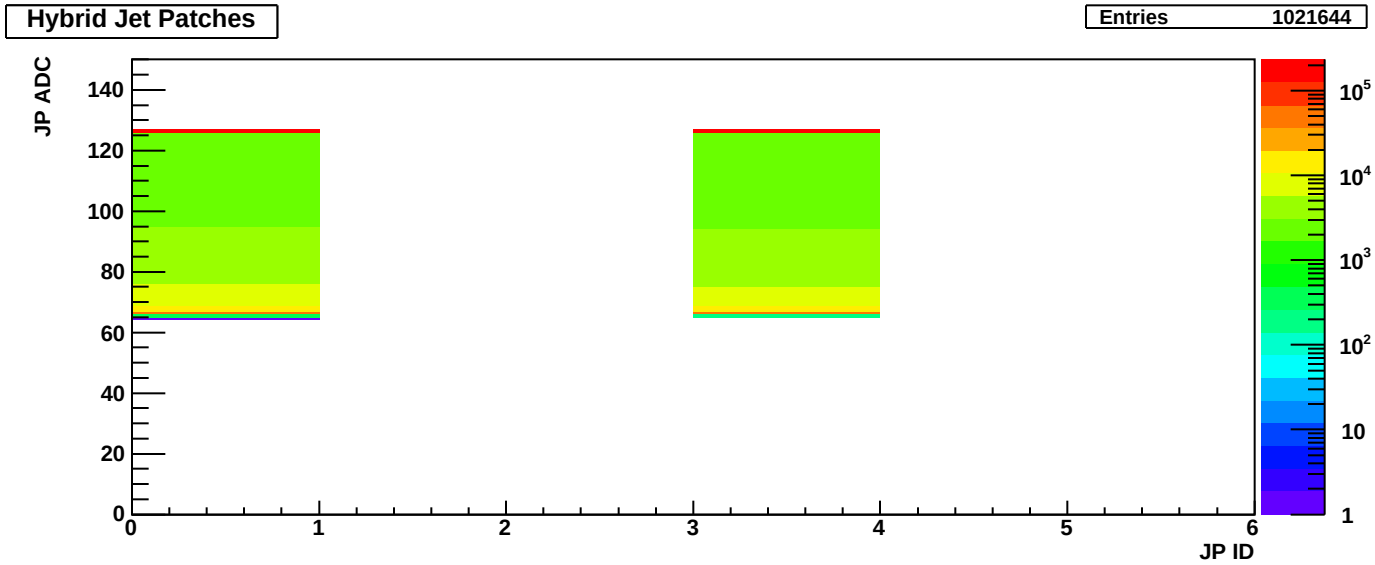

Barrel EMC L0 Input - High Tower
Entries 1.532466e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

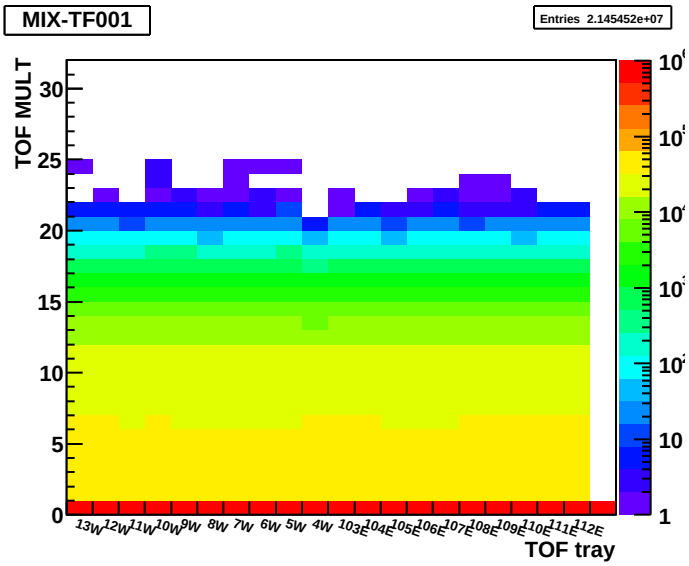

Barrel EMC L0 Input - Patch Sum
Entries 1.532466e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

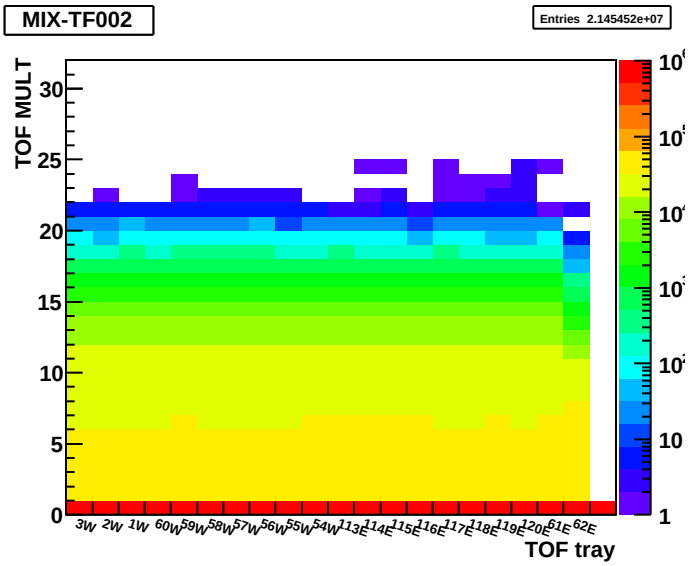

Endcap EMC L0 Input - High Tower
Entries 4.597398e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

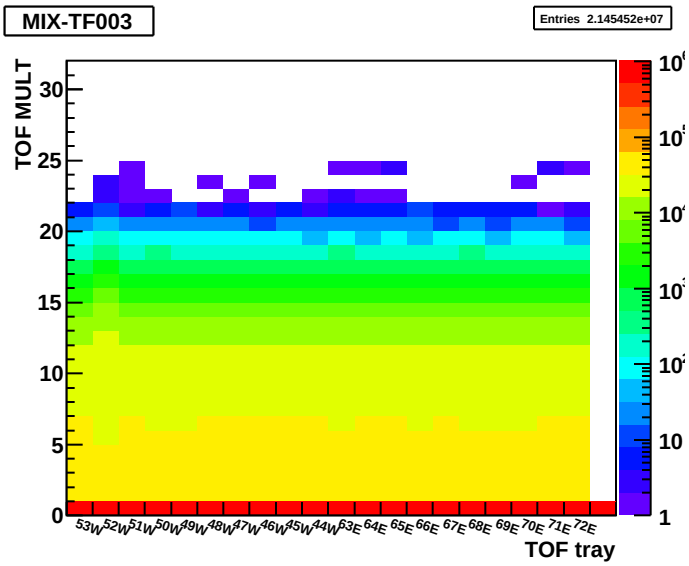

Endcap EMC L0 Input - Patch Sum
Entries 4.597398e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

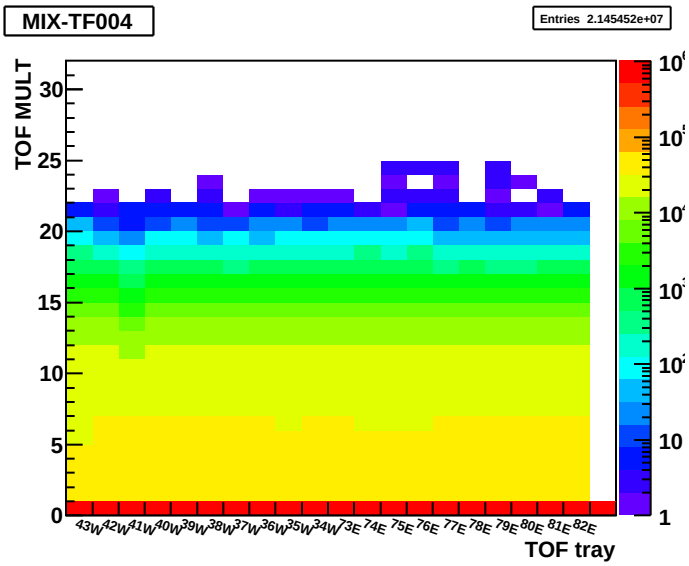

Barrel Jet Patches
Entries 9194796
JP ADC
JP ID

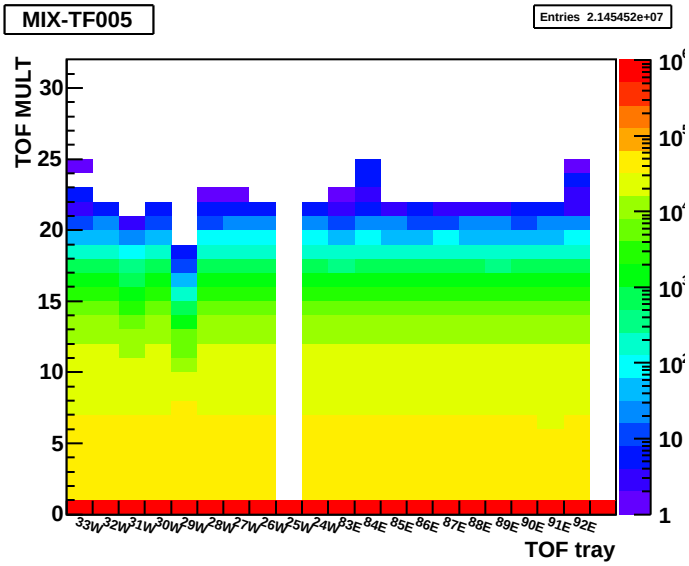

Hybrid Jet Patches
Entries 1021644
JP ADC
JP ID

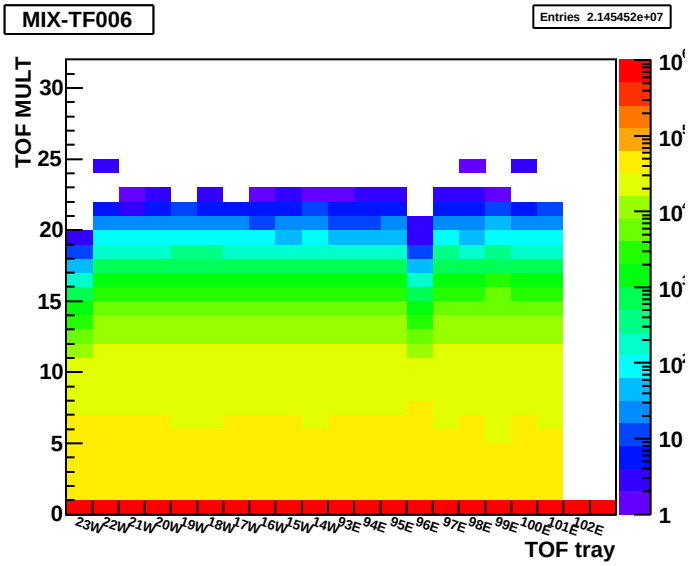

MIX-TF001
Entries 2.145452e+07
TOF MULT
TOF tray

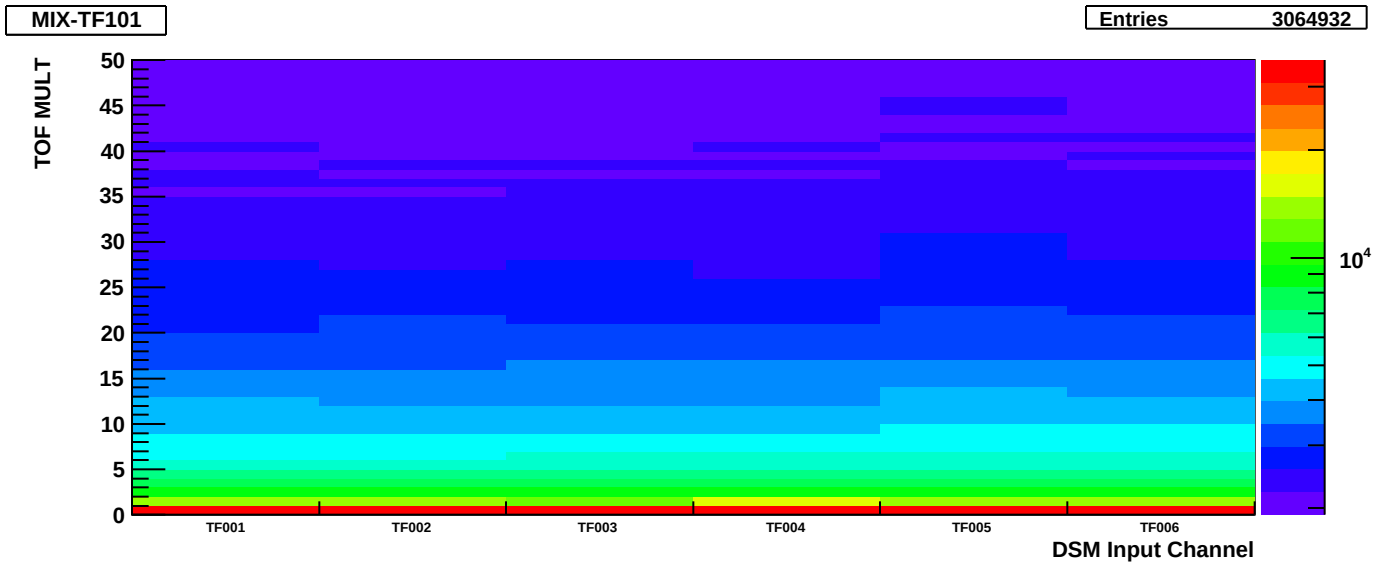

MIX-TF002
Entries 2.145452e+07
TOF MULT
TOF tray

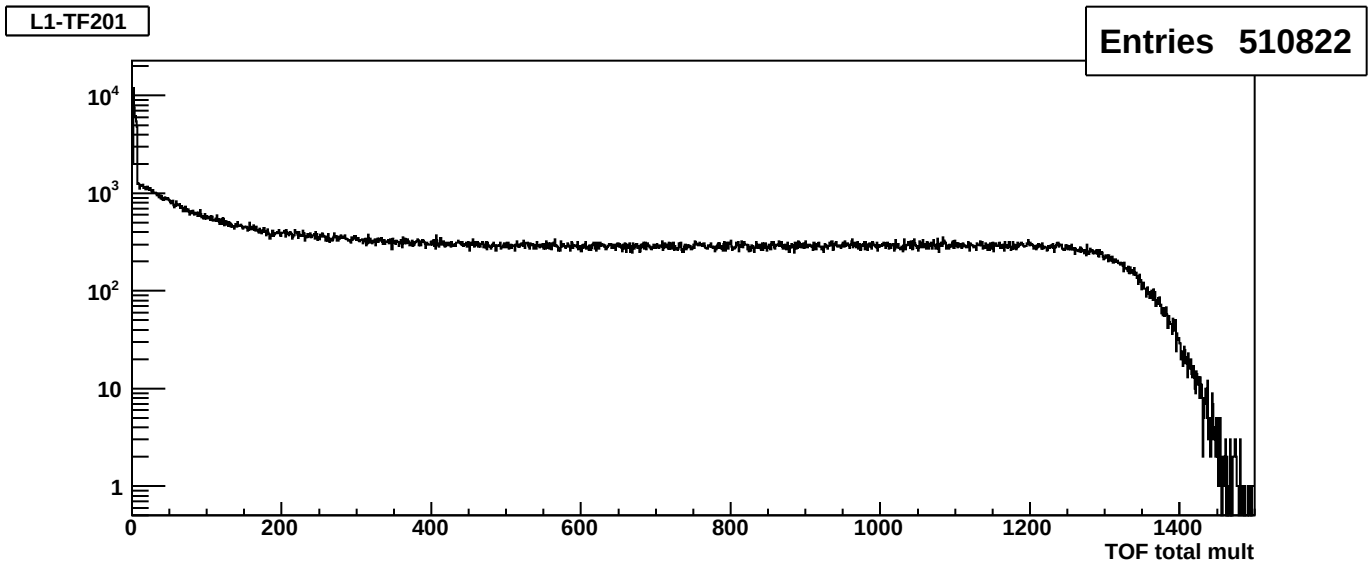

MIX-TF003
Entries 2.145452e+07
TOF MULT
TOF tray

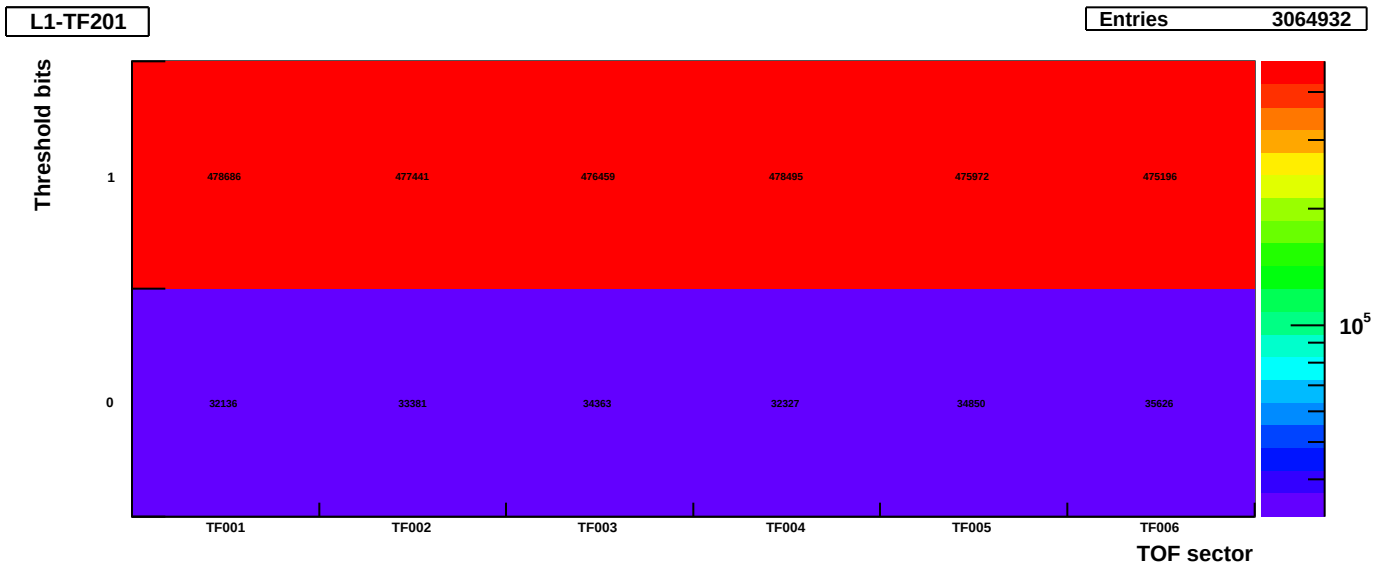

MIX-TF004
Entries 2.145452e+07
TOF MULT
TOF tray

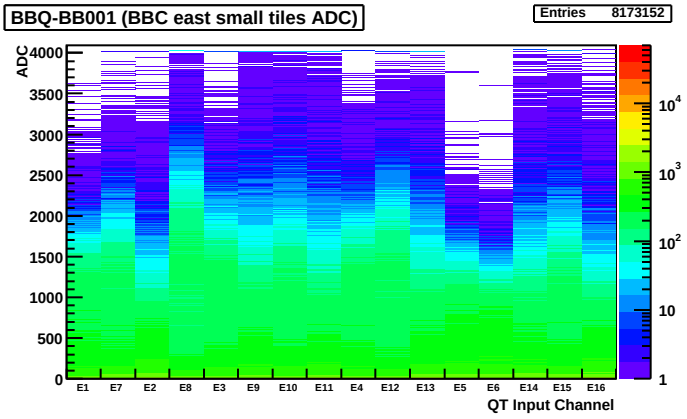

MIX-TF005
Entries 2.145452e+07
TOF MULT
TOF tray

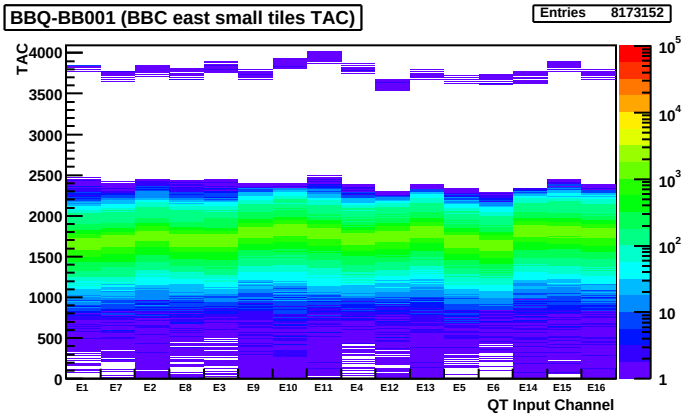

MIX-TF006
Entries 2.145452e+07
TOF MULT
TOF tray

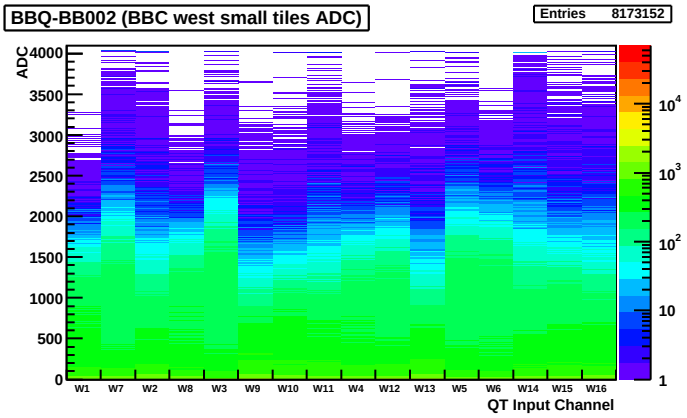

MIX-TF101
Entries 3064932
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

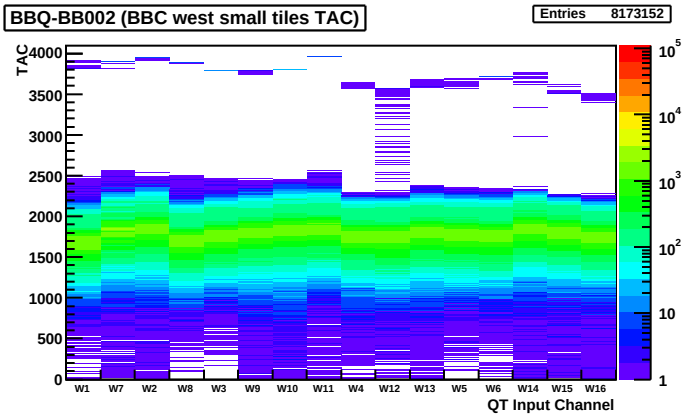

L1-TF201
Entries 510822
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

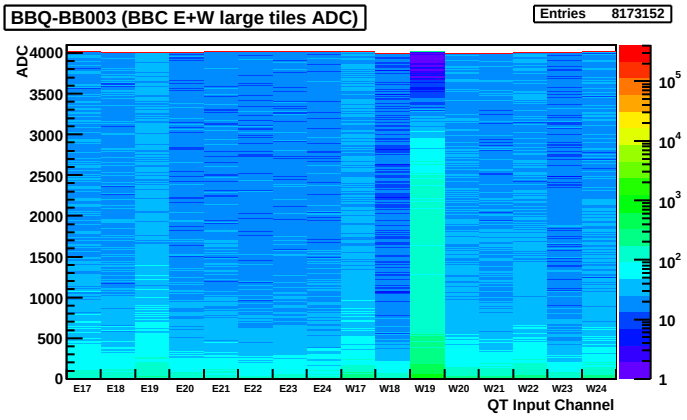

L1-TF201
Entries 3064932
Threshold bits
1
0
478686
477441
476459
478495
475972
475196
32136
33381
34363
32327
34850
35626
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

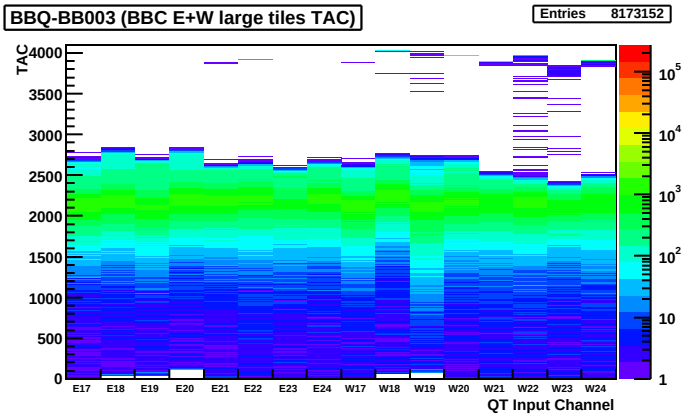

BBQ-BB001 (BBC east small tiles ADC)
Entries 8173152
ADC
QT Input Channel

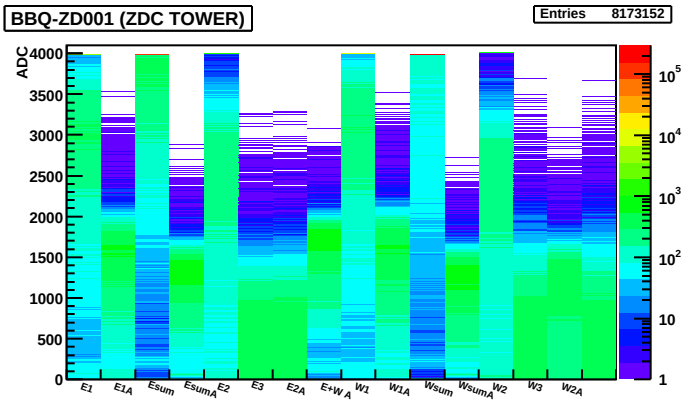

BBQ-BB001 (BBC east small tiles TAC)
Entries 8173152
TAC
QT Input Channel

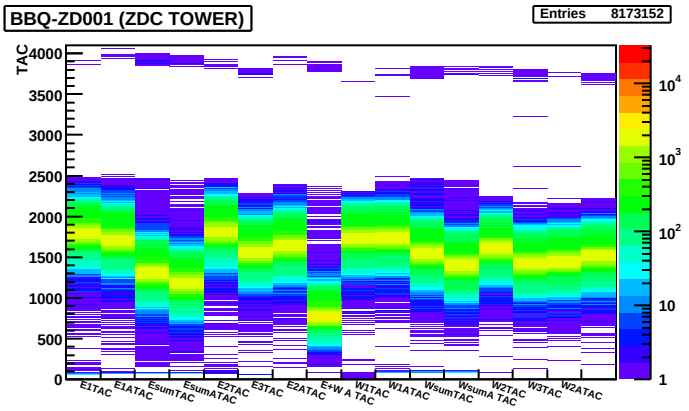

BBQ-BB002 (BBC west small tiles ADC)
Entries 8173152
ADC
QT Input Channel

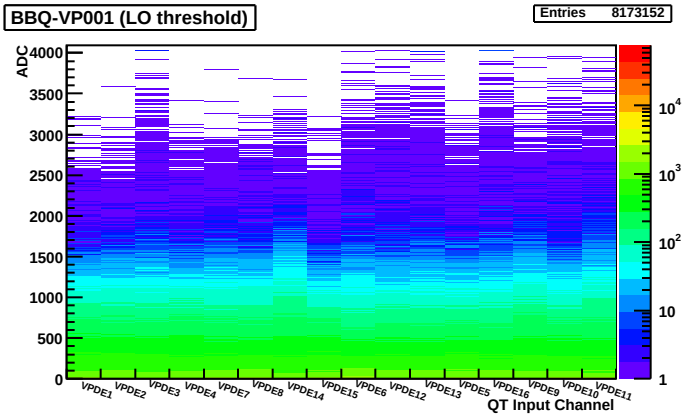

BBQ-BB002 (BBC west small tiles TAC)
Entries 8173152
TAC
QT Input Channel

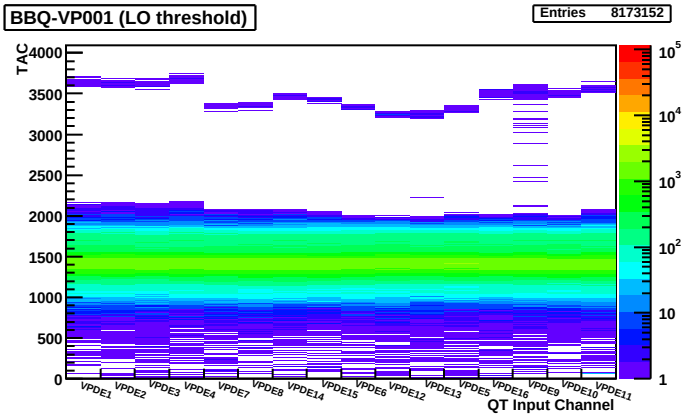

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8173152
ADC
QT Input Channel

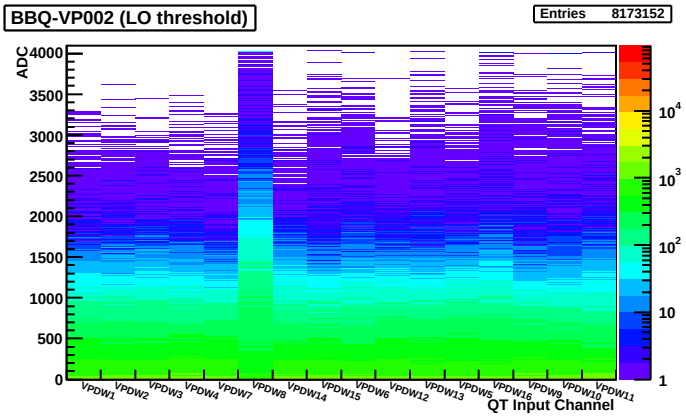

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8173152
TAC
QT Input Channel

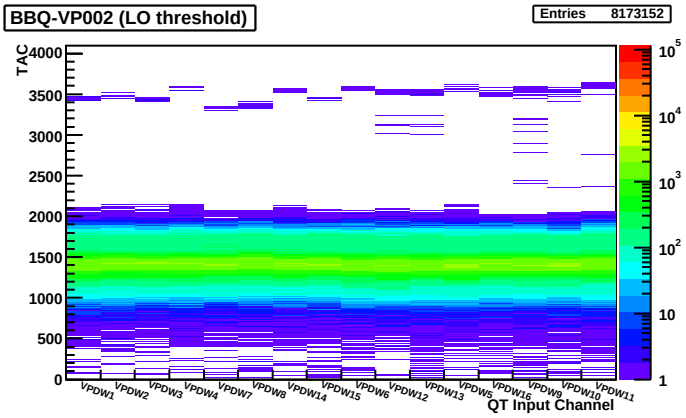

BBQ-ZD001 (ZDC TOWER)
Entries 8173152
ADC

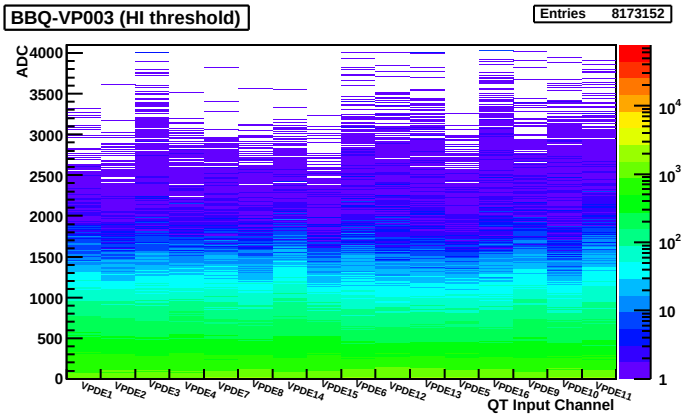

BBQ-ZD001 (ZDC TOWER)
Entries 8173152
TAC

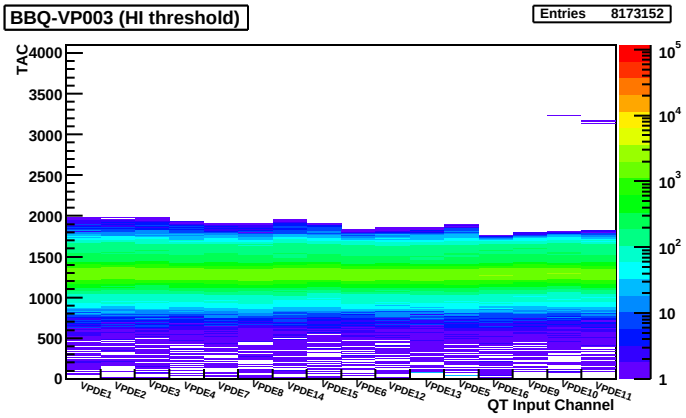

BBQ-VP001 (LO threshold)
Entries 8173152
ADC
QT Input Channel

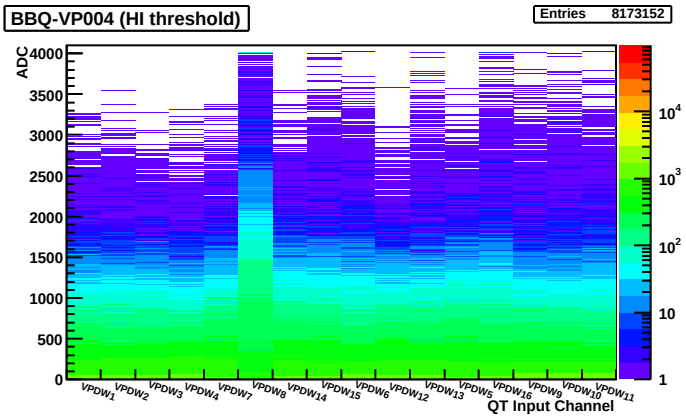

BBQ-VP001 (LO threshold)
Entries 8173152
TAC
QT Input Channel

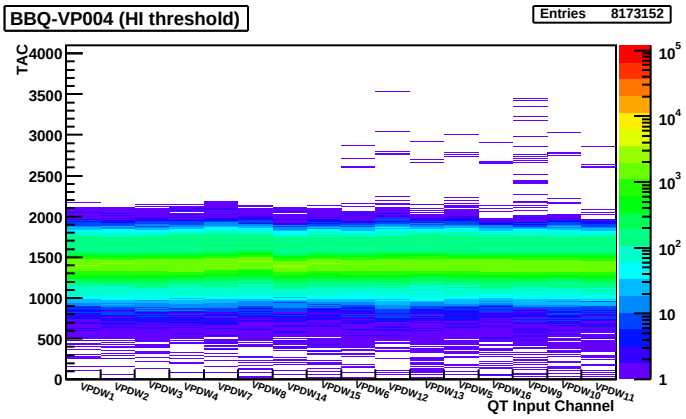

BBQ-VP002 (LO threshold)
Entries 8173152
ADC
QT Input Channel

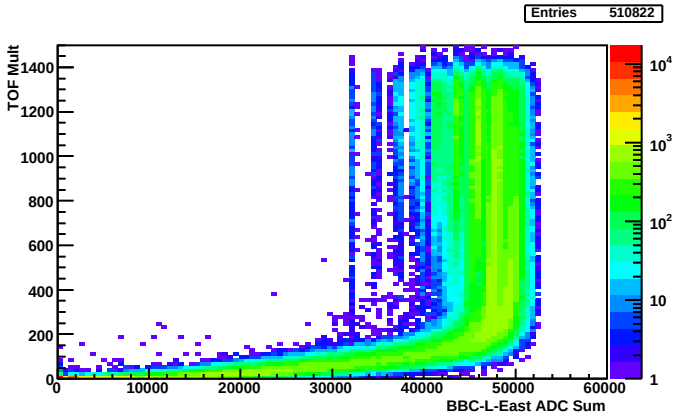

BBQ-VP002 (LO threshold)
Entries 8173152
TAC
QT Input Channel

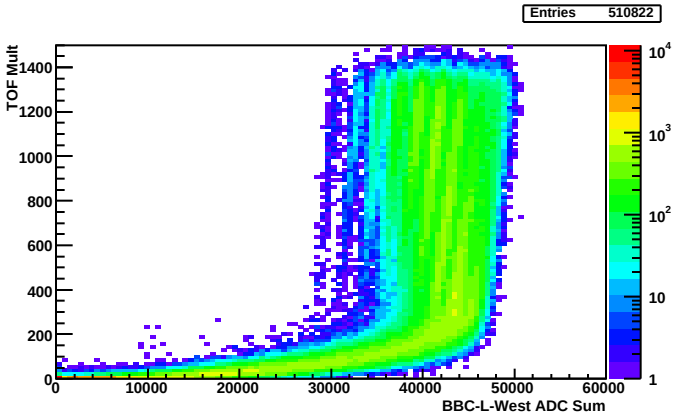

BBQ-VP003 (HI threshold)
Entries 8173152
ADC
QT Input Channel

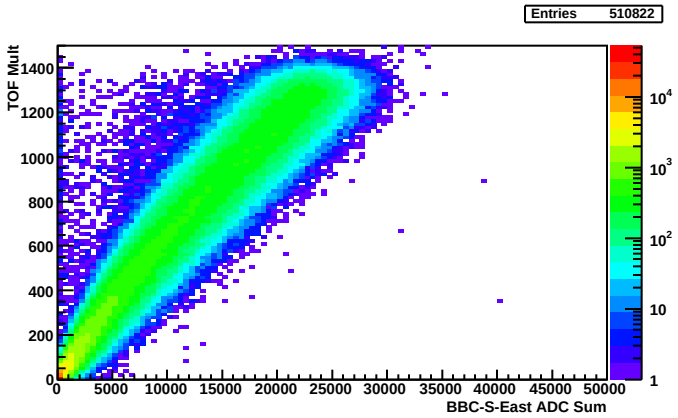

BBQ-VP003 (HI threshold)
Entries 8173152
TAC
QT Input Channel

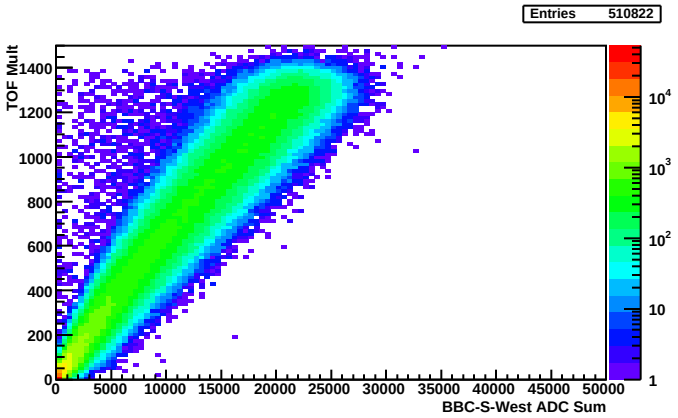

BBQ-VP004 (HI threshold)
Entries 8173152
ADC
QT Input Channel

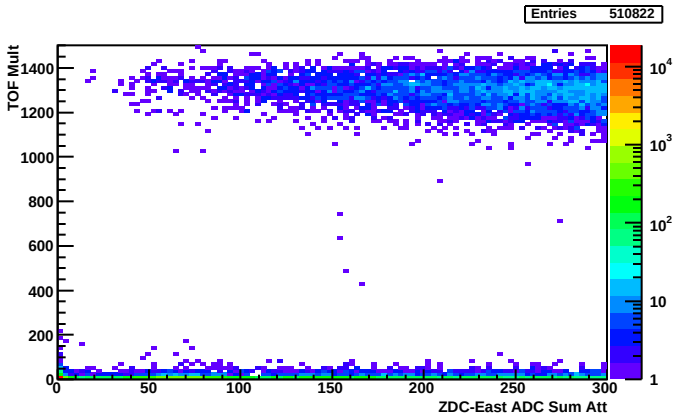

BBQ-VP004 (HI threshold)
Entries 8173152
TAC
QT Input Channel

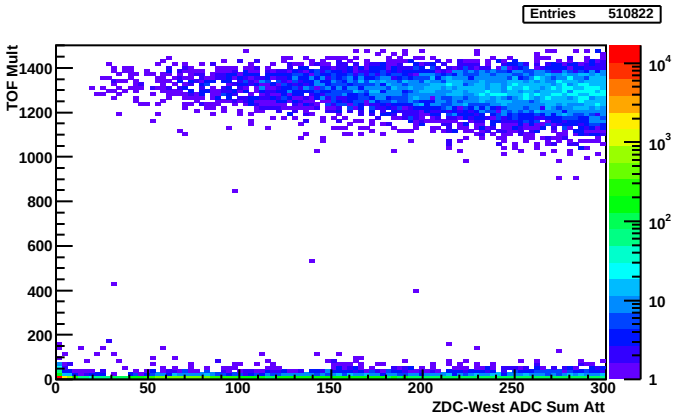

Entries 510822
TOF Mult
BBC-L-East ADC Sum

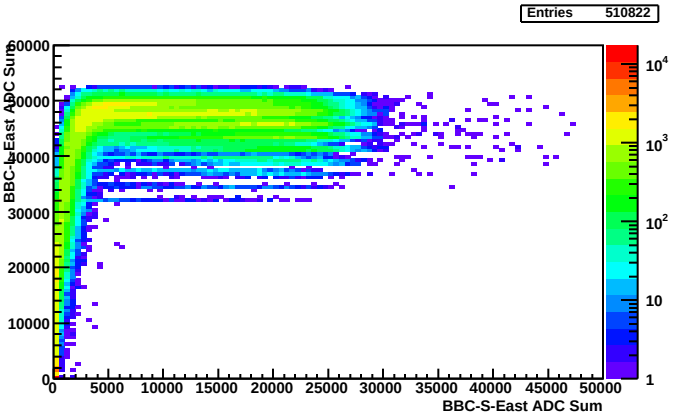

Entries 510822
TOF Mult
BBC-L-West ADC Sum

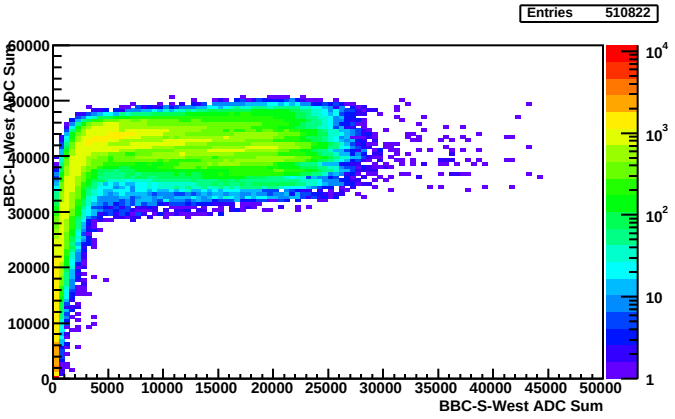

Entries 510822
TOF Mult
BBC-S-East ADC Sum

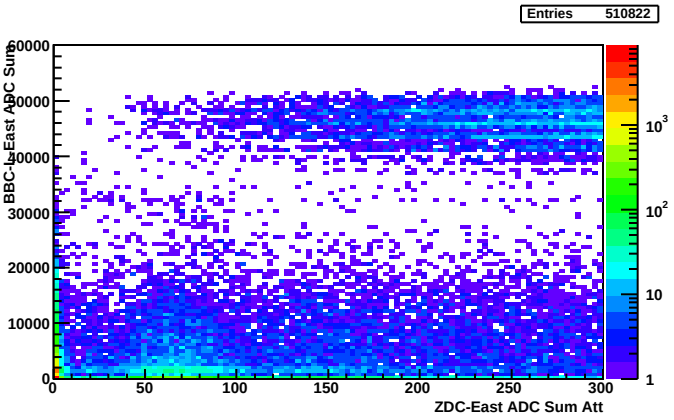

Entries 510822
TOF Mult
BBC-S-West ADC Sum

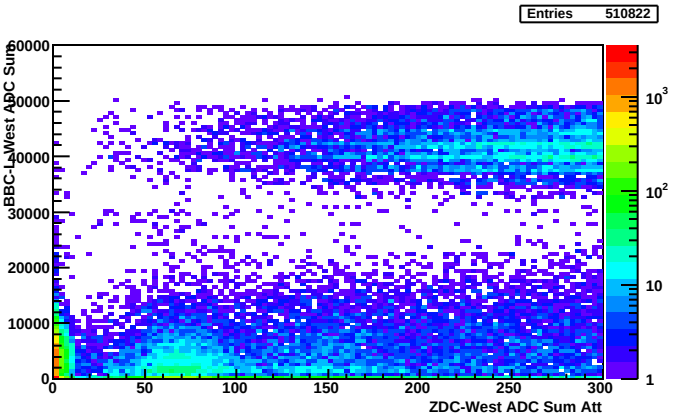

Entries 510822
TOF Mult
ZDC-East ADC Sum Att


Entries 510822
TOF Mult
ZDC-West ADC Sum Att


Entries 510822
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 510822
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 510822
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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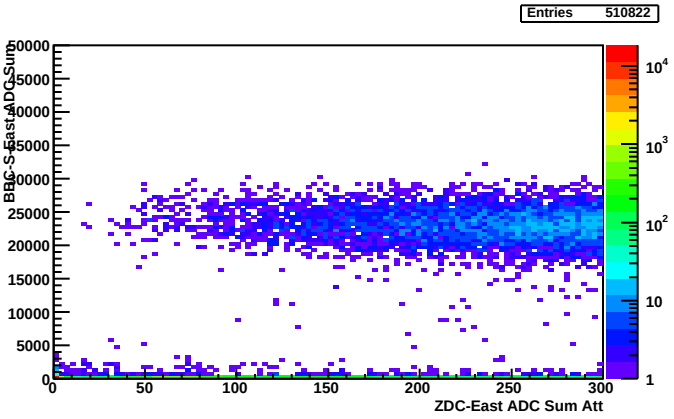
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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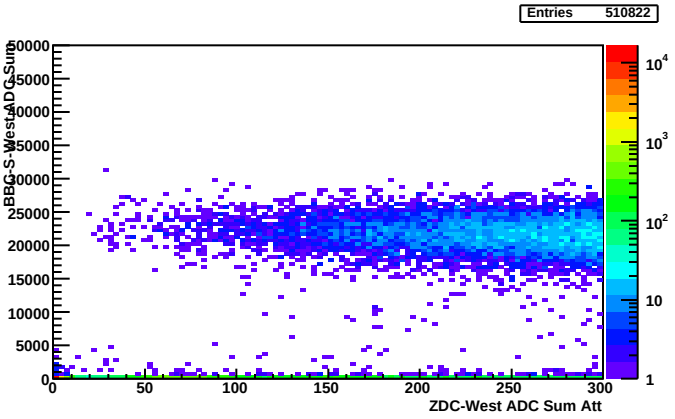
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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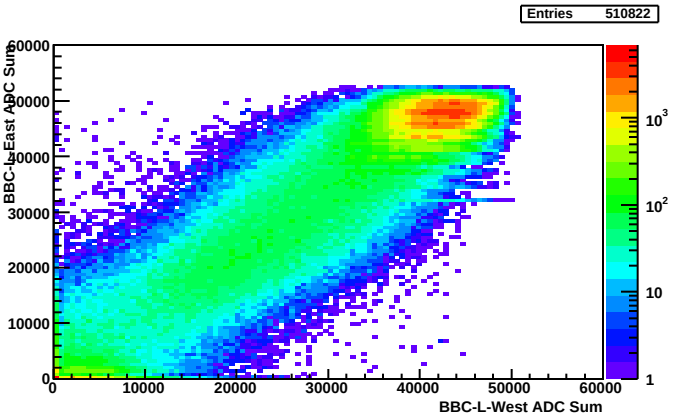
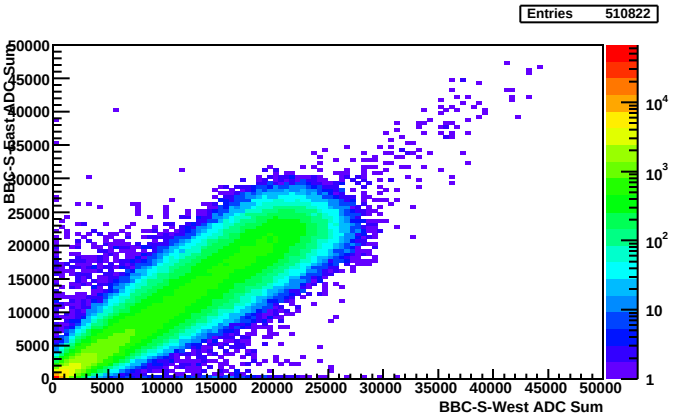
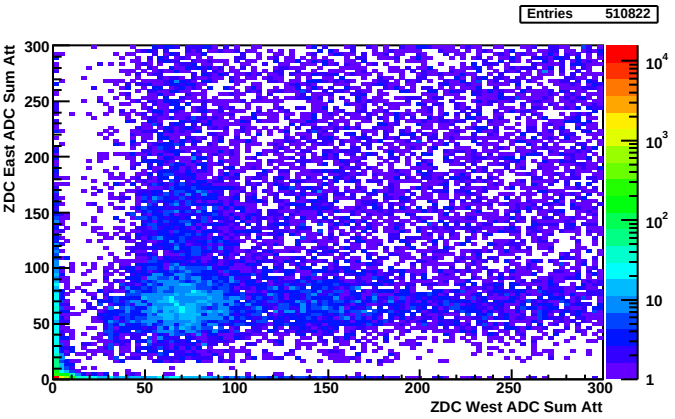
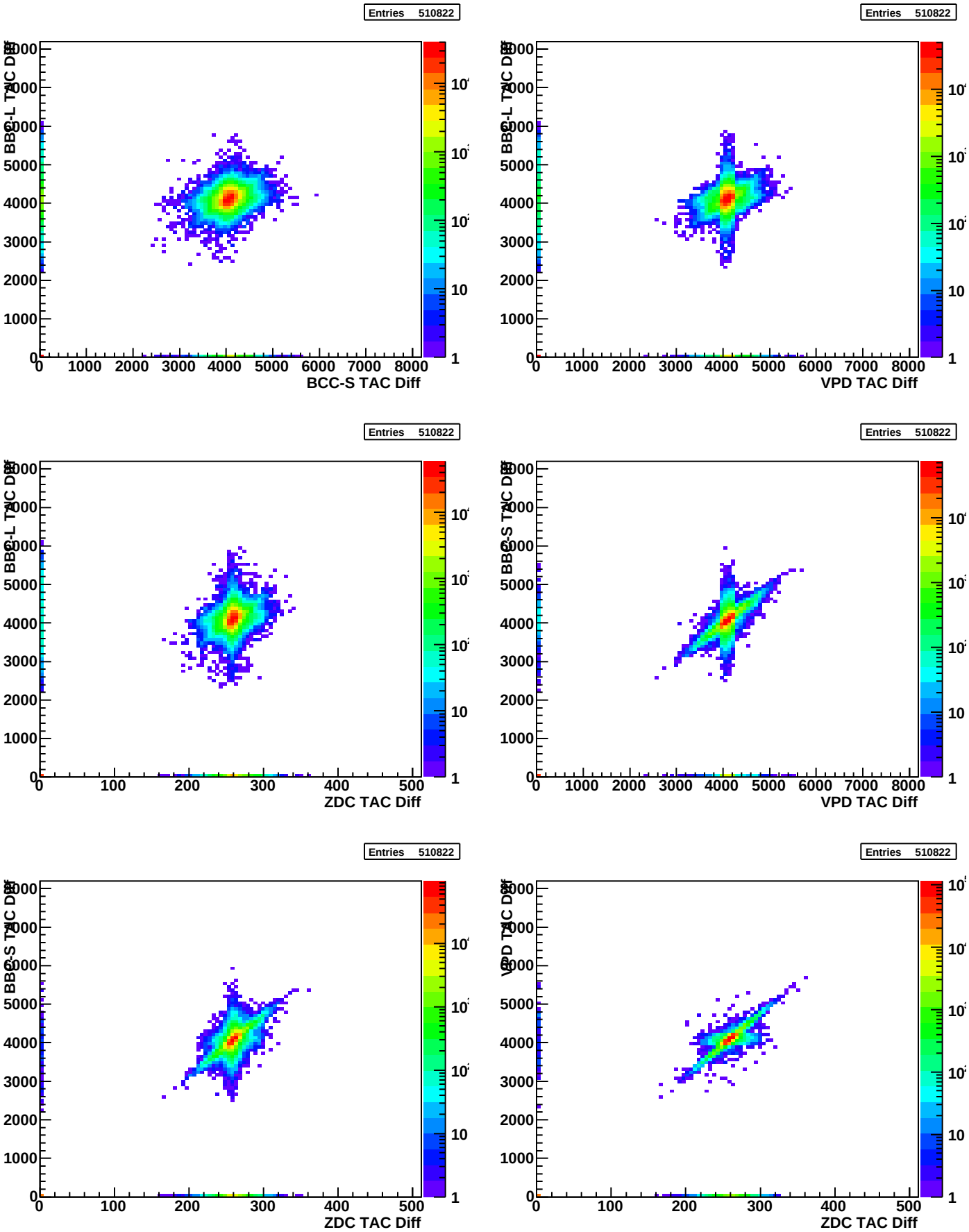
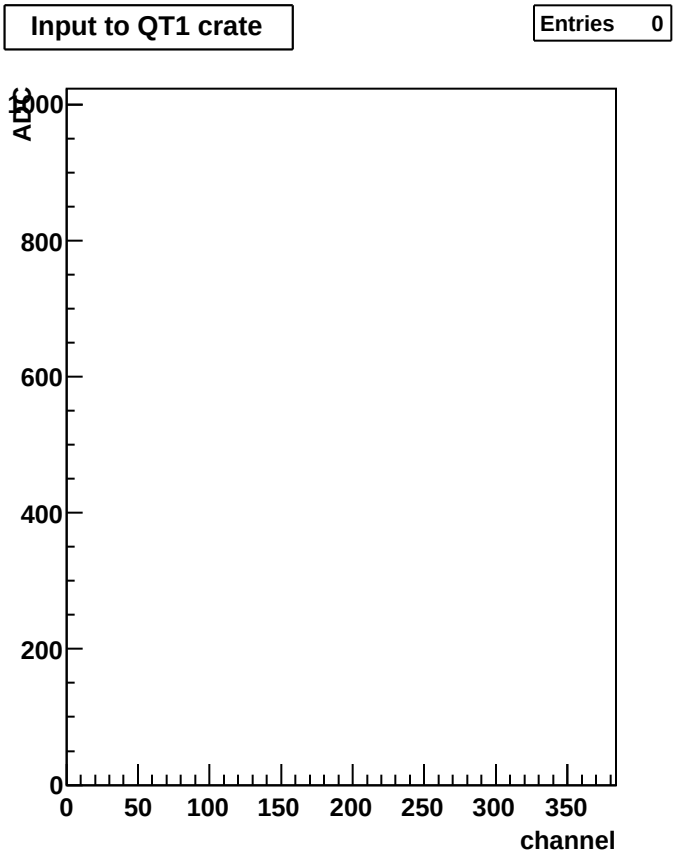
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

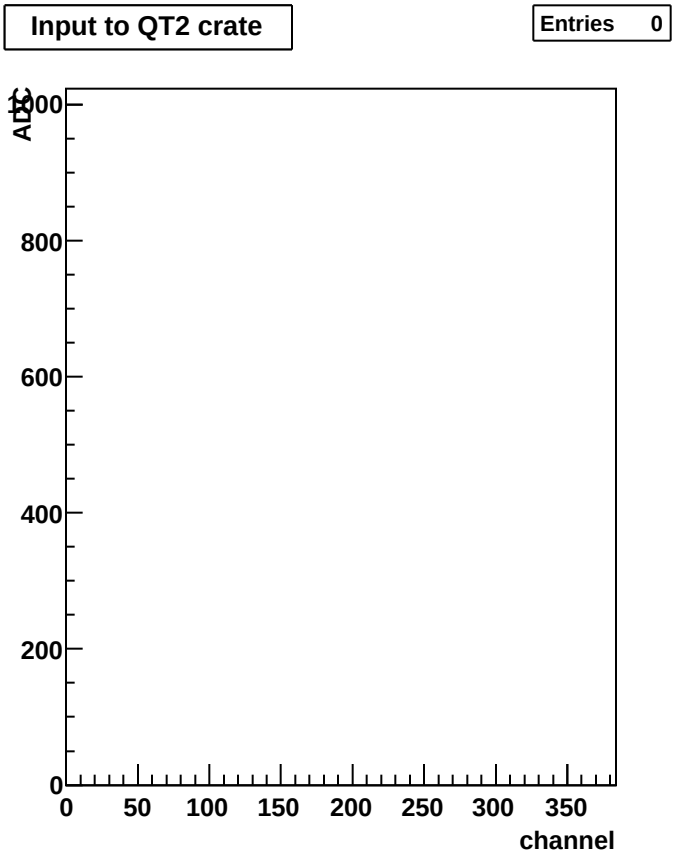

Entries 510822
BBC-L-East ADC Sum
BBC-L-West ADC Sum

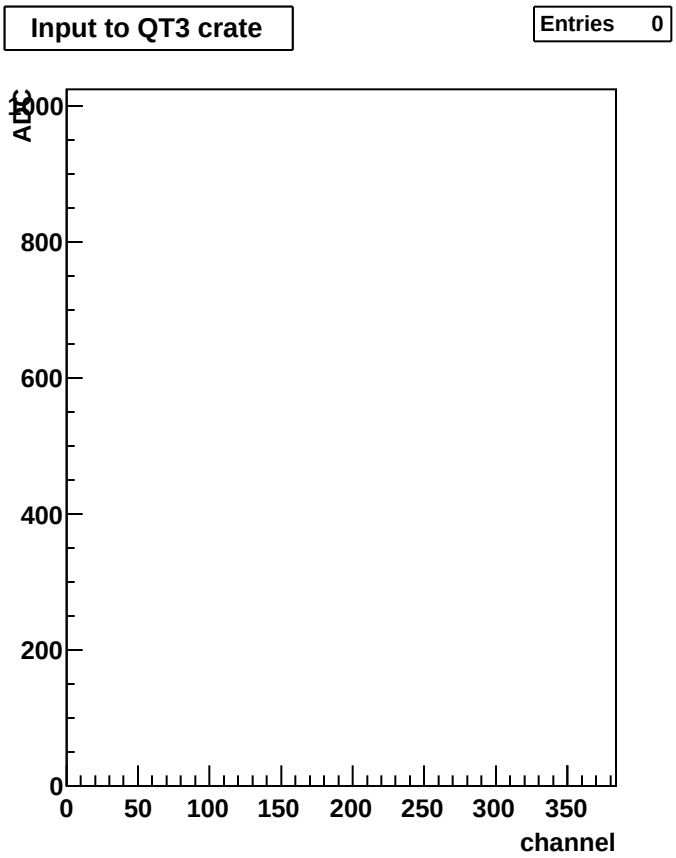

Entries 510822
BBC-S-East ADC Sum
BBC-S-West ADC Sum

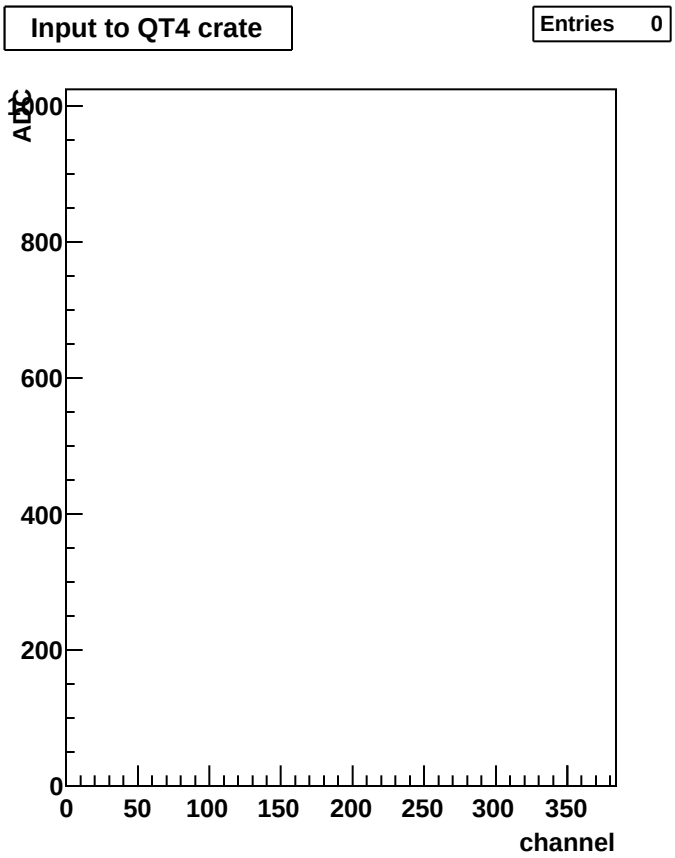

Entries 510822
ZDC East ADC Sum Att
ZDC West ADC Sum Att

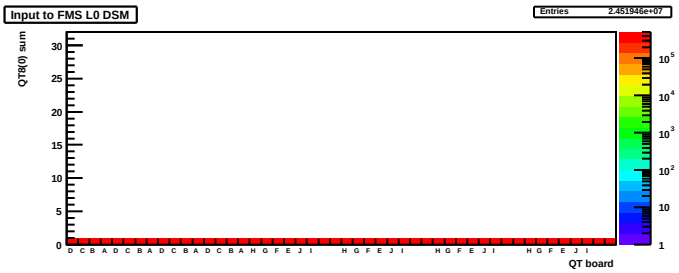

Entries 510822
BBC-L TAC Diff
BCC-S TAC Diff
Entries 510822
BBC-L TAC Diff
VPD TAC Diff
Entries 510822
BBC-L TAC Diff
ZDC TAC Diff
Entries 510822
BBC-S TAC Diff
VPD TAC Diff
Entries 510822
BBC-S TAC Diff
ZDC TAC Diff
Entries 510822
VPD TAC Diff
ZDC TAC Diff

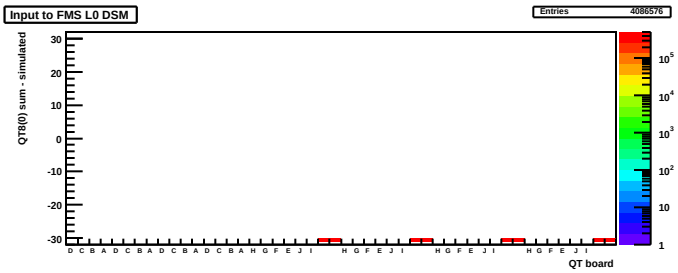

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

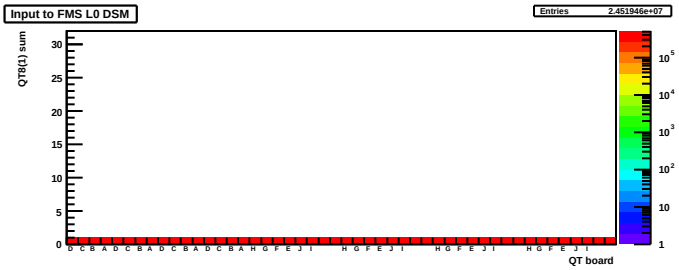

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

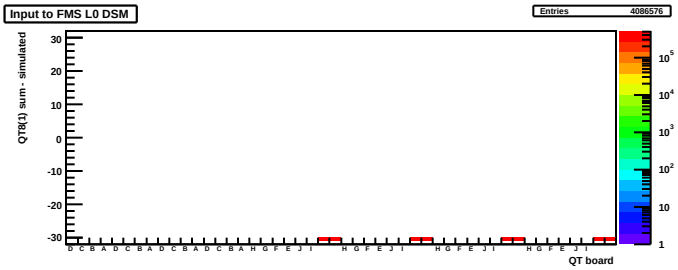

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

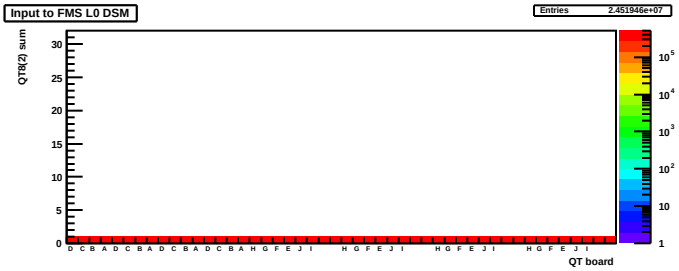

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

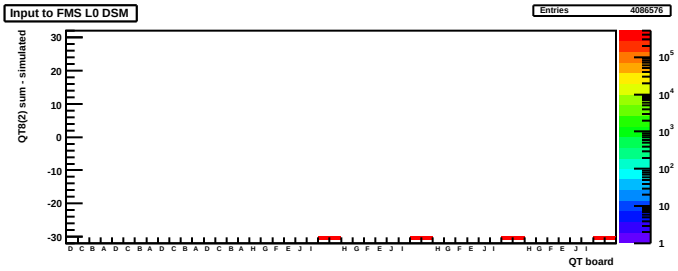

Input to FMS L0 DSM
Entries 2.451946e+07
QT8(0) sum
QT board

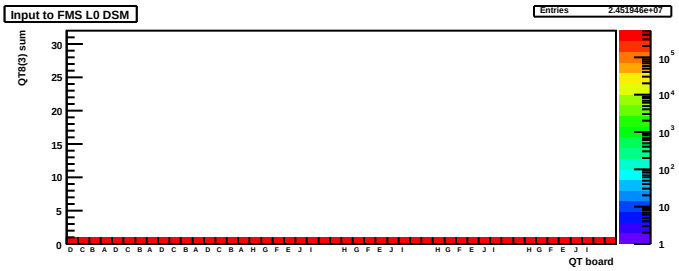

Input to FMS L0 DSM
Entries 4086576
QT8(0) sum - simulated
QT board

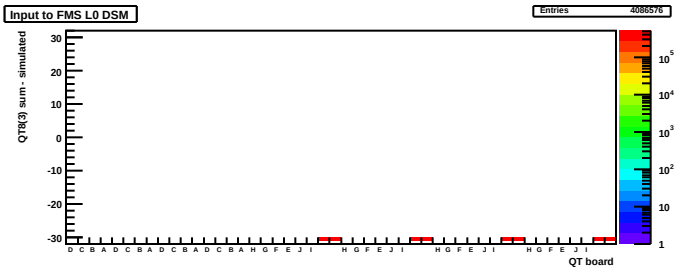

Input to FMS L0 DSM
Entries 2.451946e+07
QT8(1) sum
QT board

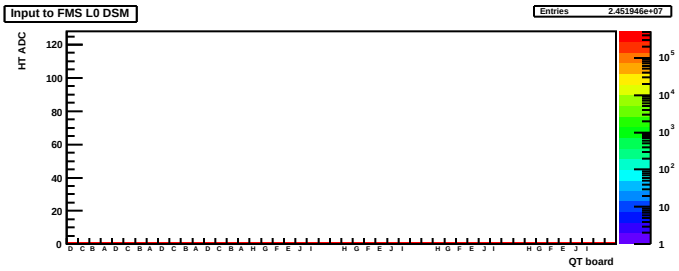

Input to FMS L0 DSM
Entries 4086576
QT8(1) sum - simulated
QT board

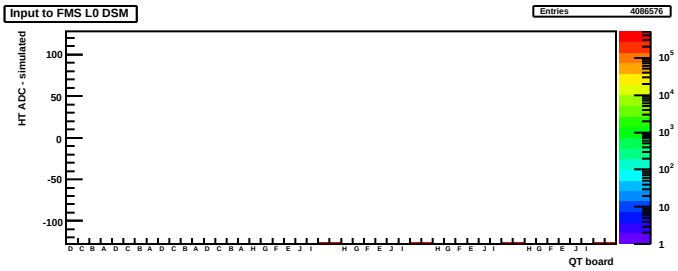

Input to FMS L0 DSM
Entries 2.451946e+07
QT8(2) sum
QT board

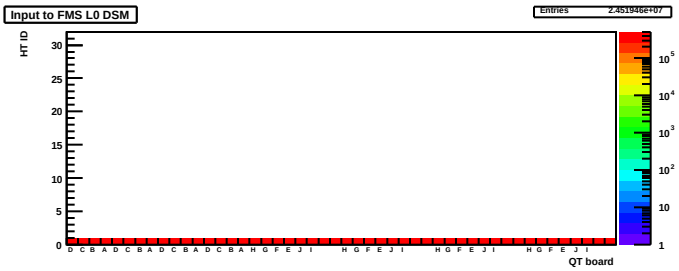

Input to FMS L0 DSM
Entries 4086576
QT8(2) sum - simulated
QT board

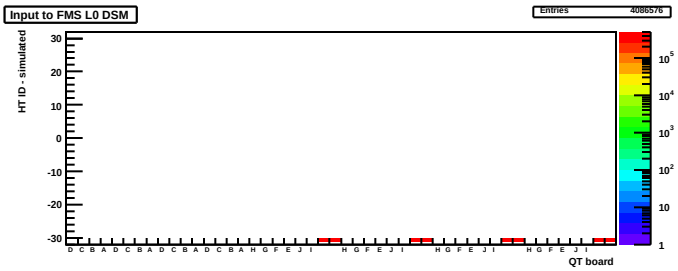

Input to FMS L0 DSM
Entries 2.451946e+07
QT8(3) sum
QT board

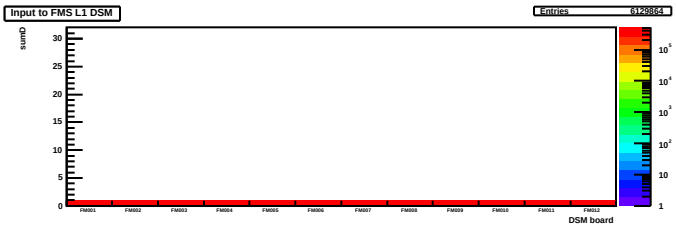

Input to FMS L0 DSM
Entries 4086576
QT8(3) sum - simulated
QT board

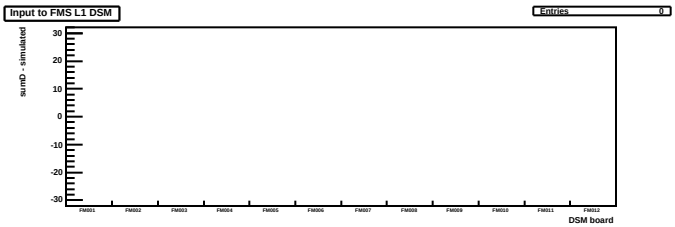

Input to FMS L0 DSM
Entries 2.451946e+07
HT ADC
QT board

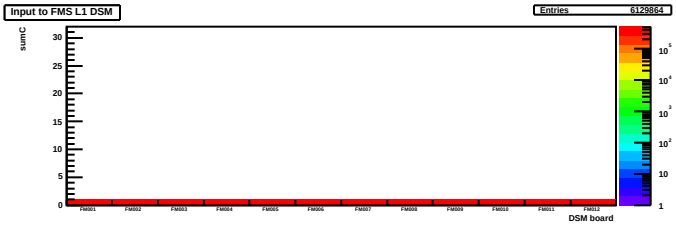

Input to FMS L0 DSM
Entries 4086576
HT ADC - simulated
QT board

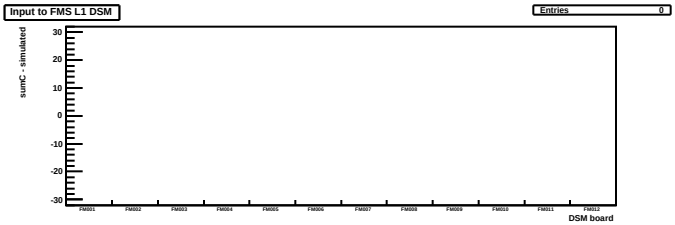

Input to FMS L0 DSM
Entries 2.451946e+07
HT ID
QT board

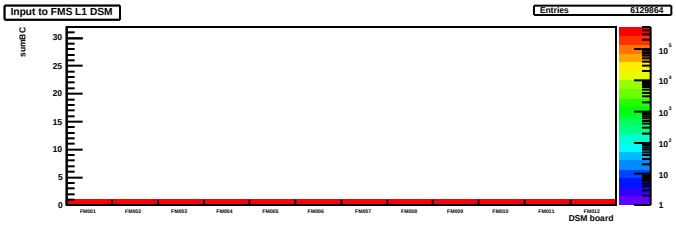

Input to FMS L0 DSM
Entries 4086576
HT ID - simulated
QT board

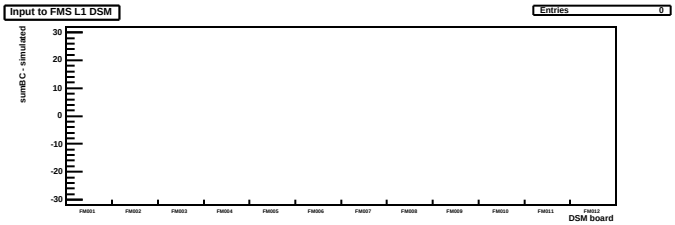

Input to FMS L1 DSM
Entries 6129864
sumD
DSM board

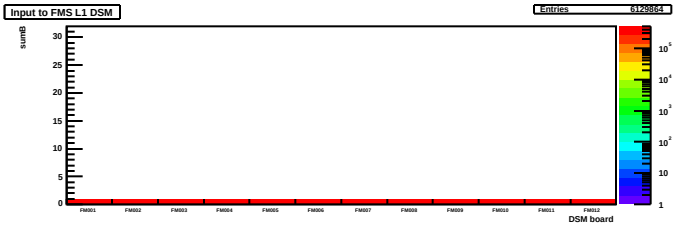

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

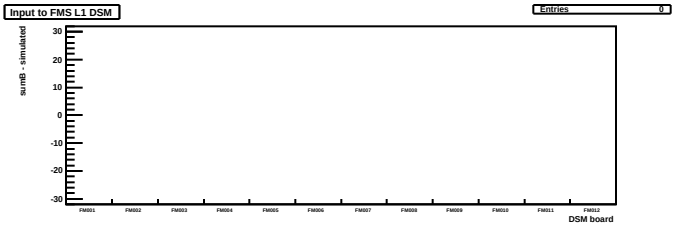

Input to FMS L1 DSM
Entries 6129864
sumC
DSM board

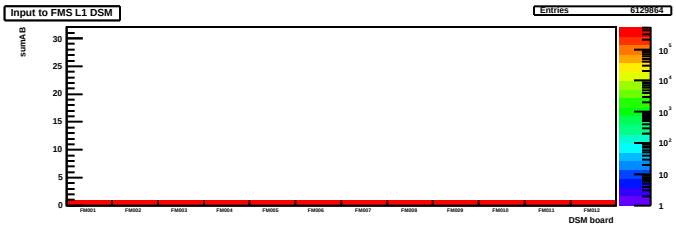

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

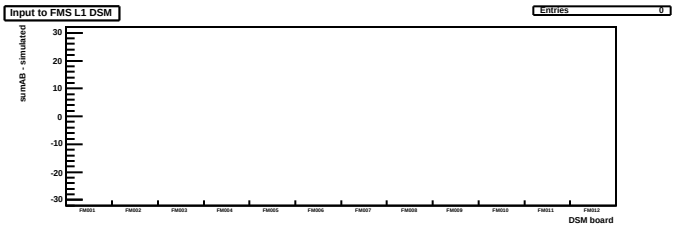

Input to FMS L1 DSM
Entries 6129864
sumBC
DSM board

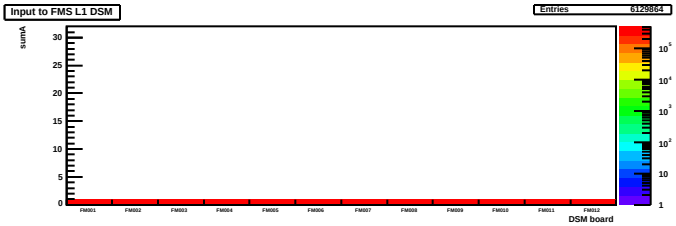

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

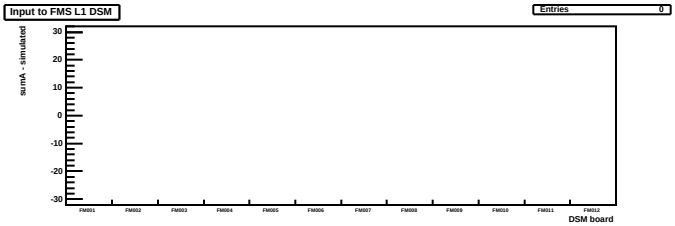

Input to FMS L1 DSM
Entries 6129864
sumB
DSM board

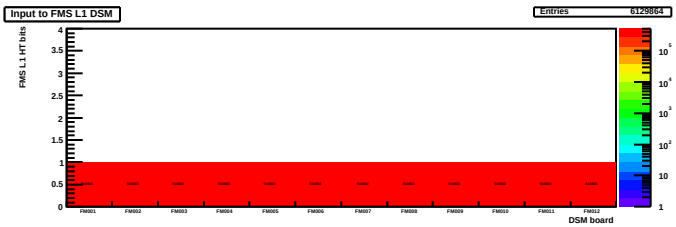

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

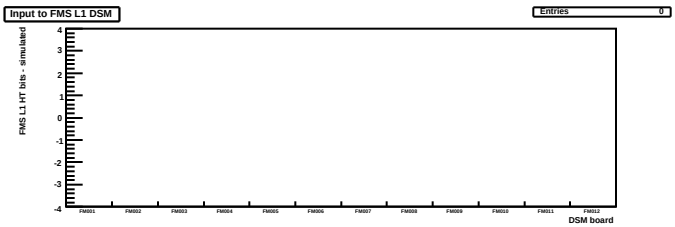

Input to FMS L1 DSM
Entries 6129864
sumAB
DSM board

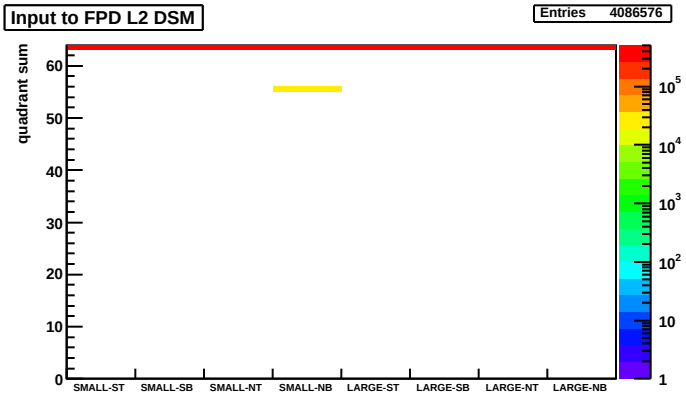

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

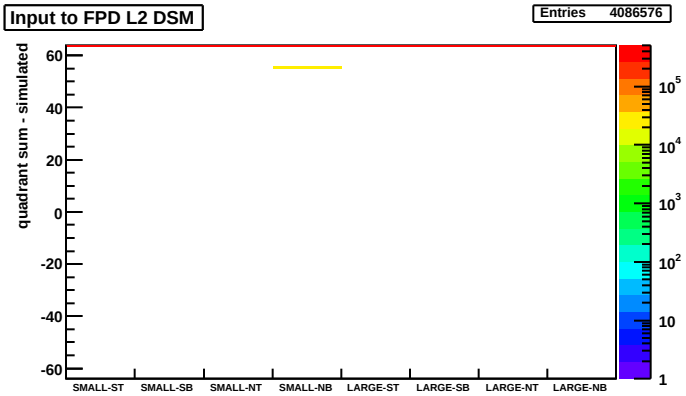

Input to FMS L1 DSM
Entries 6129864
sumA
DSM board

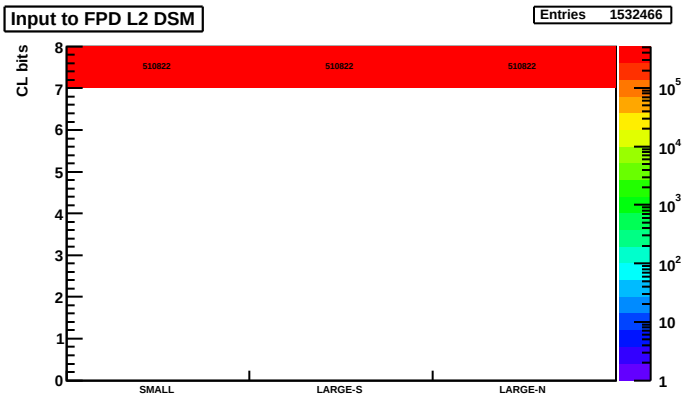

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

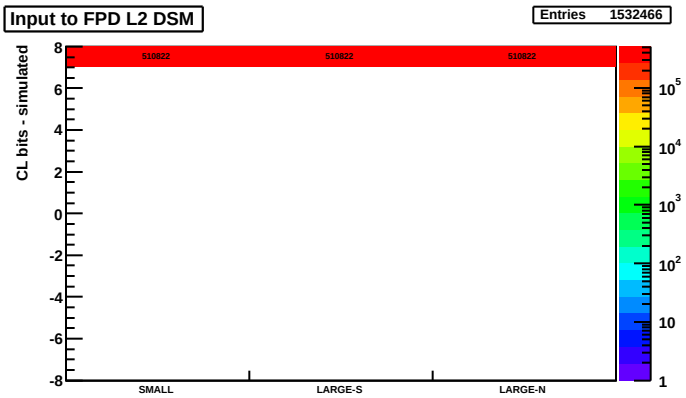

Input to FMS L1 DSM
Entries 6129864
FMS L1 HT bits
DSM board

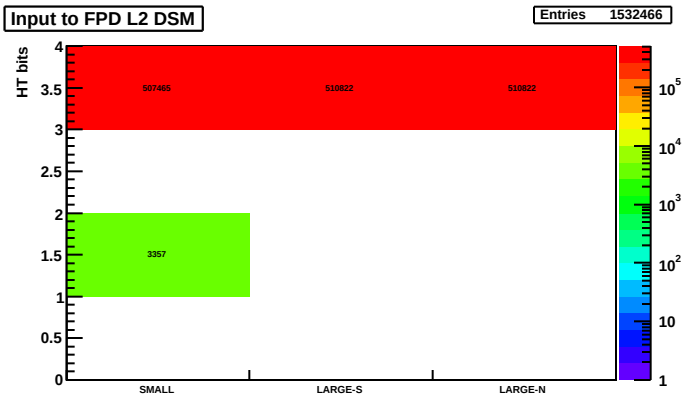

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

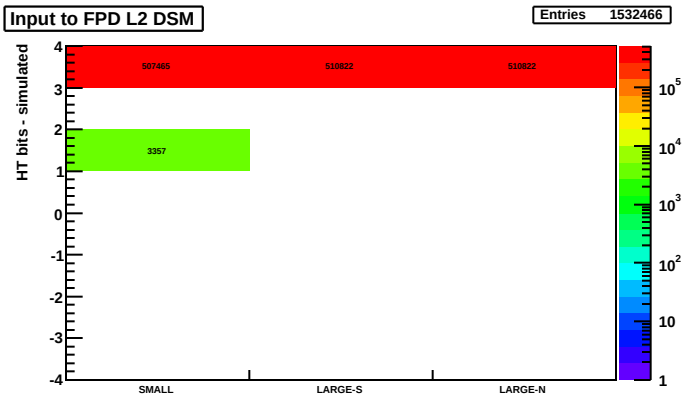

Input to FPD L2 DSM
Entries 4086576
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

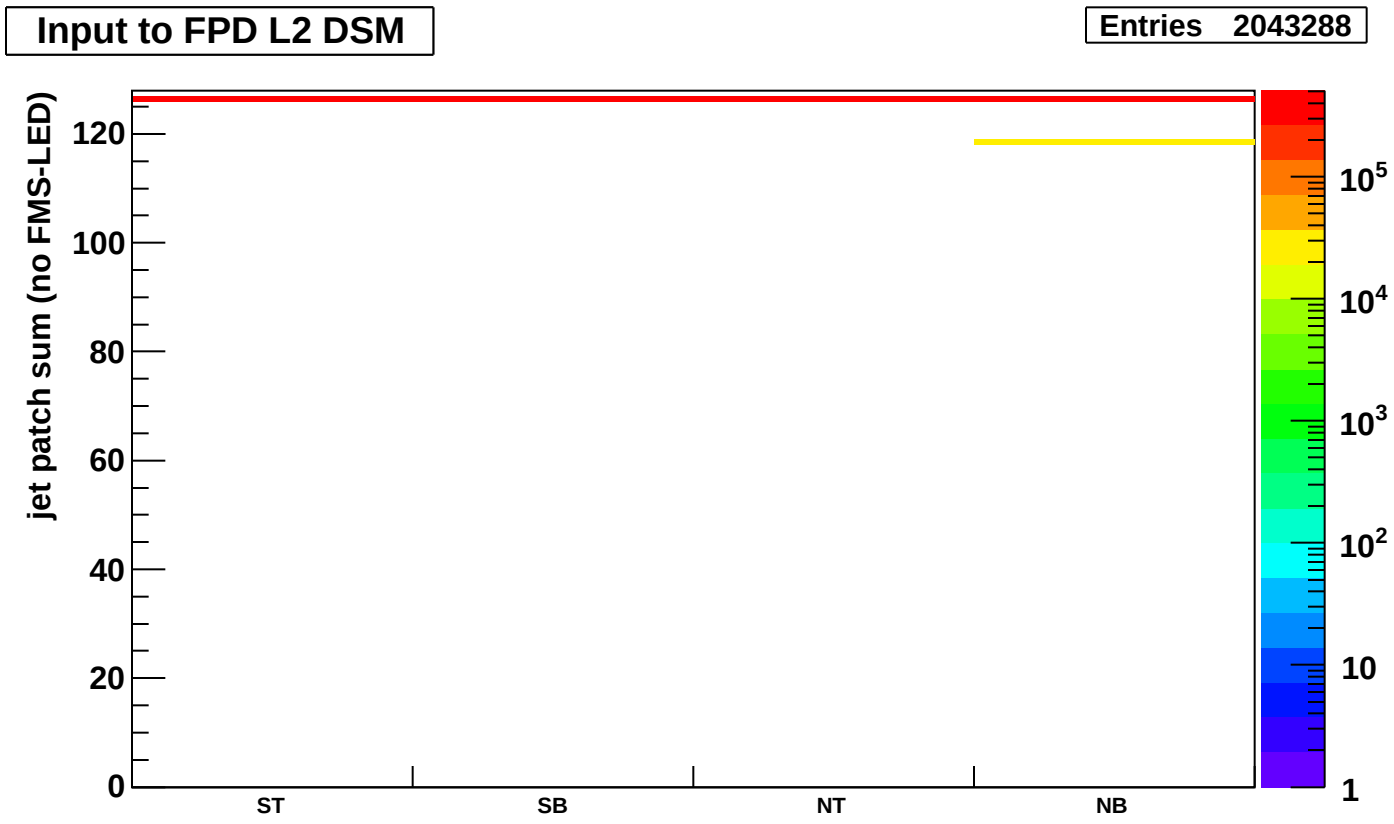

Input to FPD L2 DSM
Entries 4086576
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

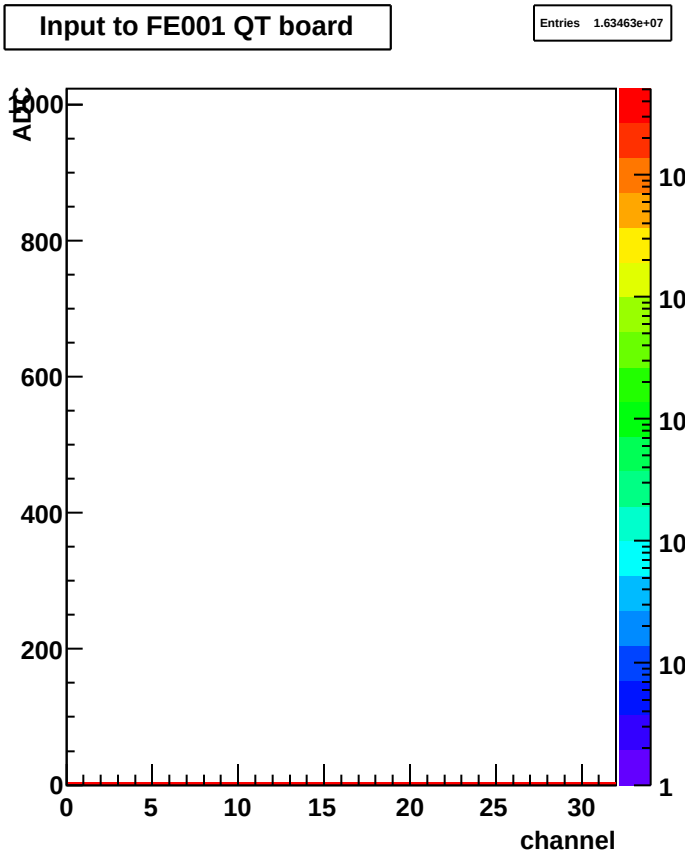

Input to FPD L2 DSM
Entries 1532466
CL bits
510822
510822
510822
SMALL
LARGE-S
LARGE-N

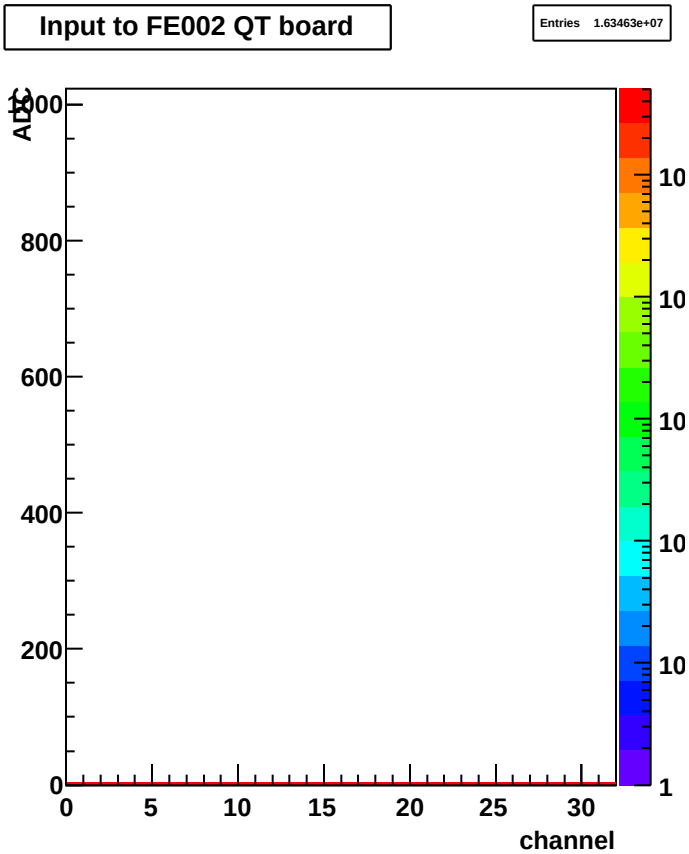

Input to FPD L2 DSM
Entries 1532466
CL bits - simulated
510822
510822
510822
SMALL
LARGE-S
LARGE-N

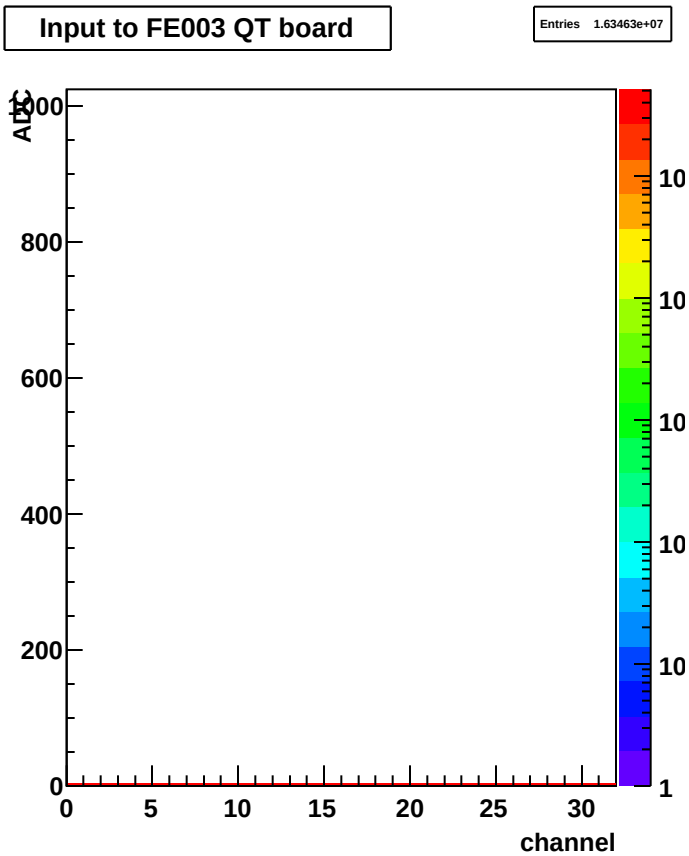

Input to FPD L2 DSM
Entries 1532466
HT bits
507465
510822
510822
3357
SMALL
LARGE-S
LARGE-N

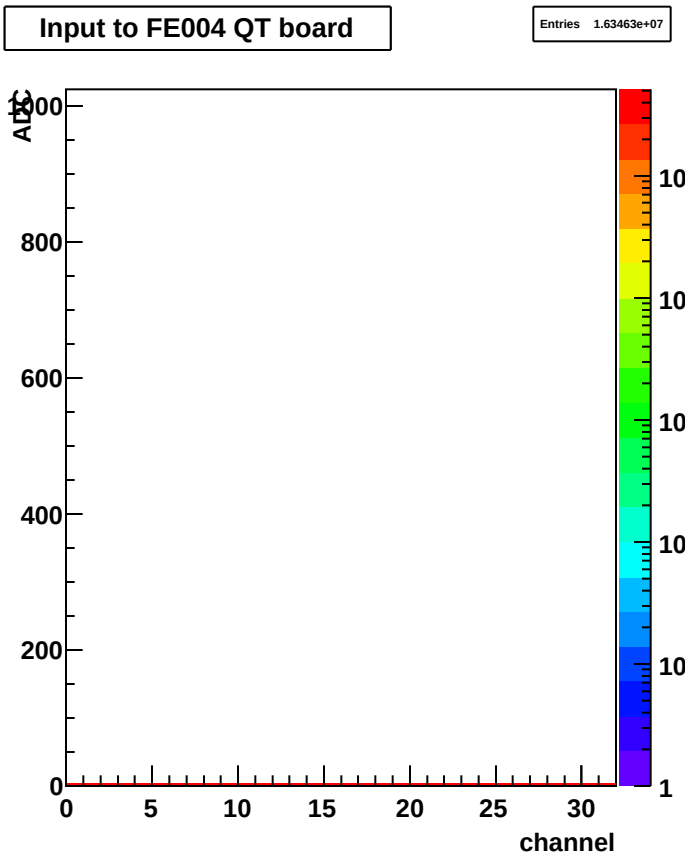

Input to FPD L2 DSM
Entries 1532466
HT bits - simulated
507465
510822
510822
3357
SMALL
LARGE-S
LARGE-N

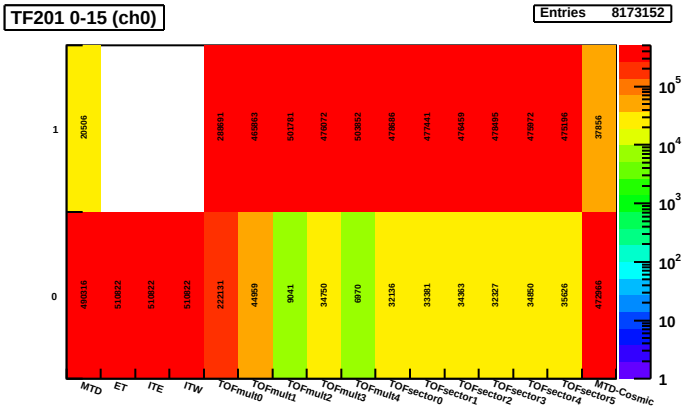

Input to FPD L2 DSM
Entries 2043288
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

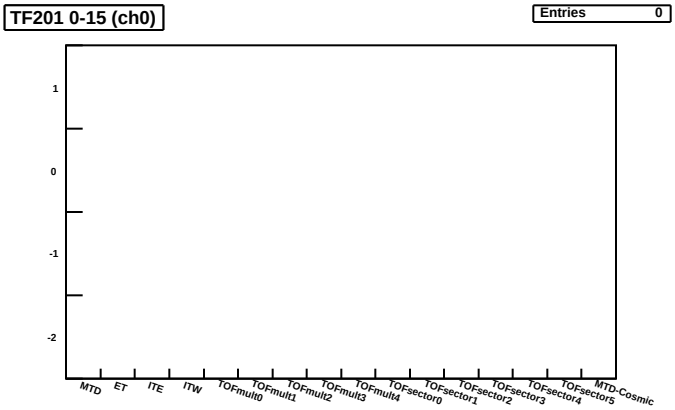

Input to FE001 QT board
Entries 1.63463e+07
ADC
channel

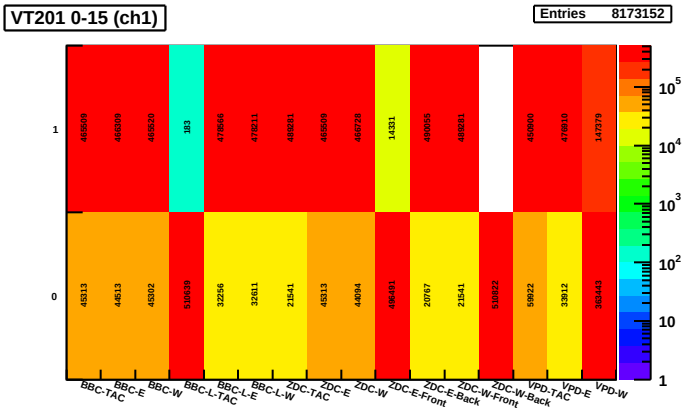

Input to FE002 QT board
Entries 1.63463e+07
ADC
channel

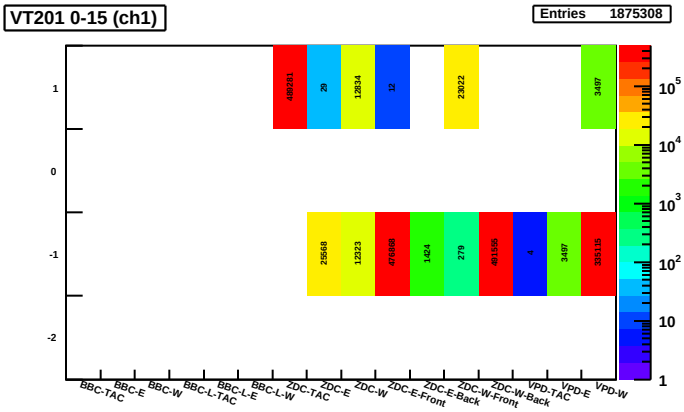

Input to FE003 QT board
Entries 1.63463e+07
ADC
channel

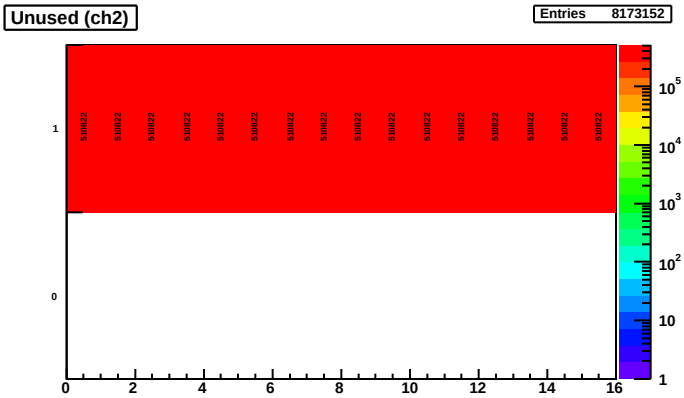

Input to FE004 QT board
Entries 1.63463e+07
ADC
channel

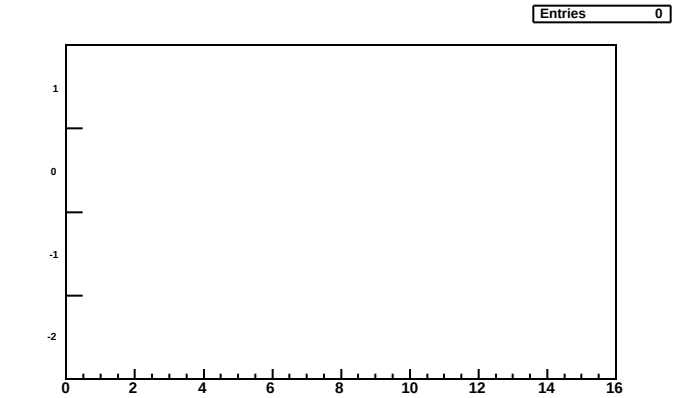

TF201 0-15 (ch0)
Entries 8173152
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

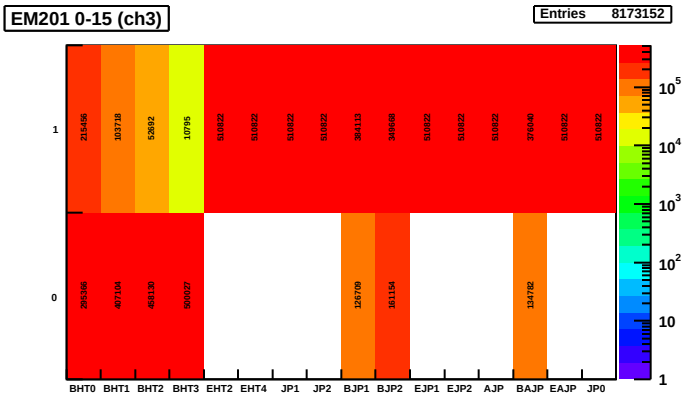

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

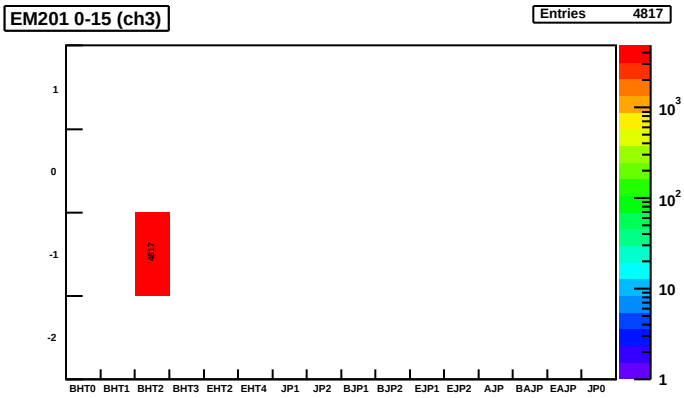

VT201 0-15 (ch1)
Entries 8173152
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1875308
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

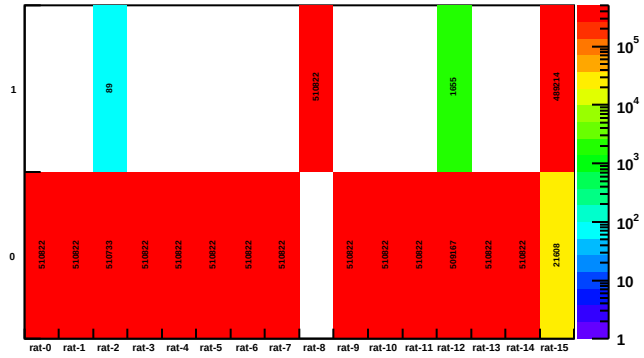

Unused (ch2)
Entries 8173152

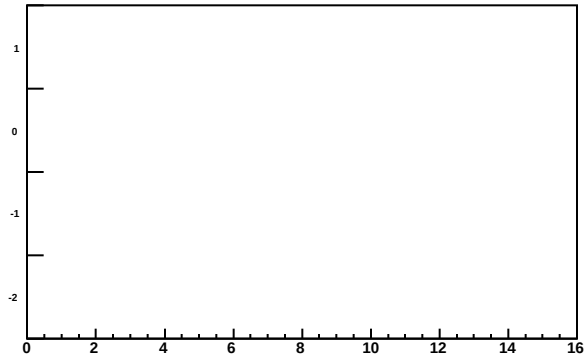

Entries 0


EM201 0-15 (ch3)
Entries 8173152
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

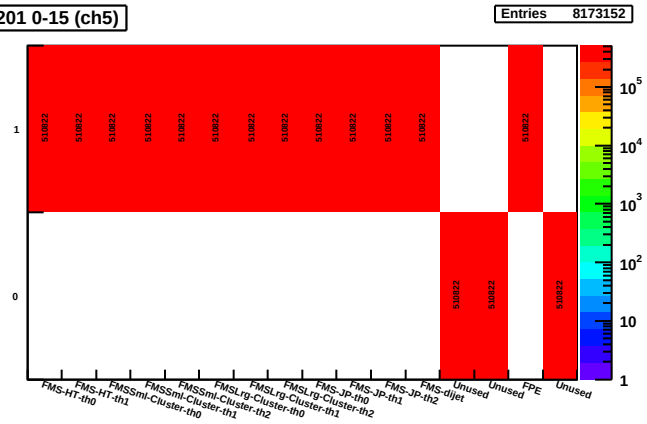

EM201 0-15 (ch3)
Entries 4817
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

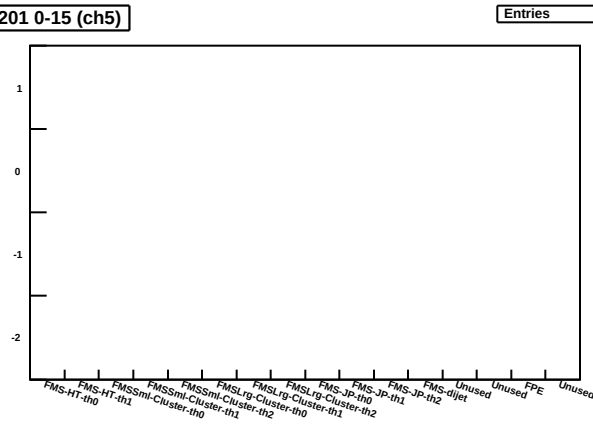




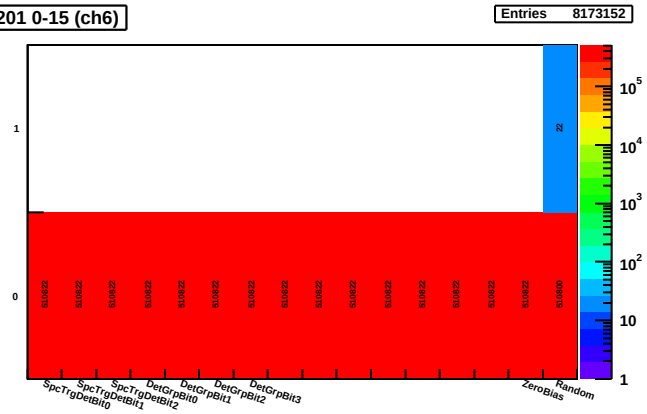
FP201 0-15 (ch5)

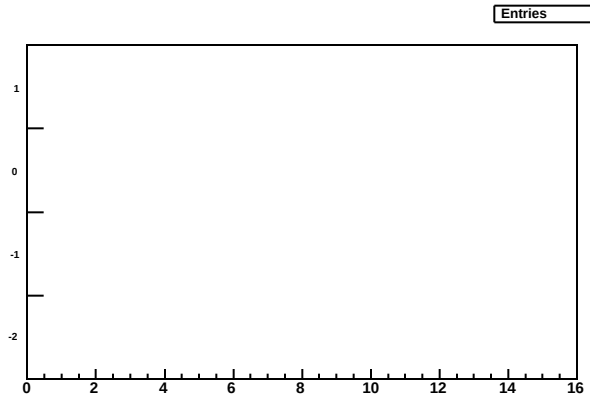
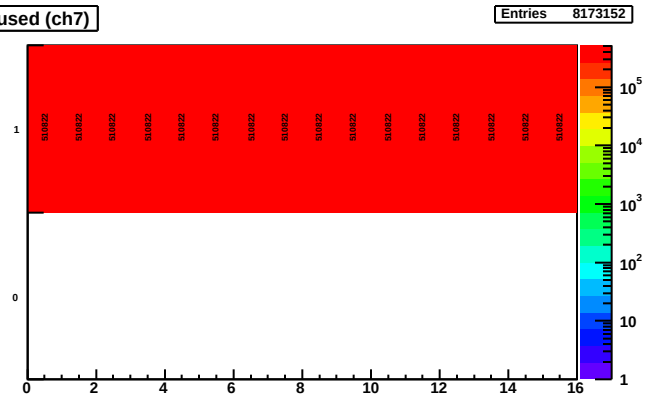
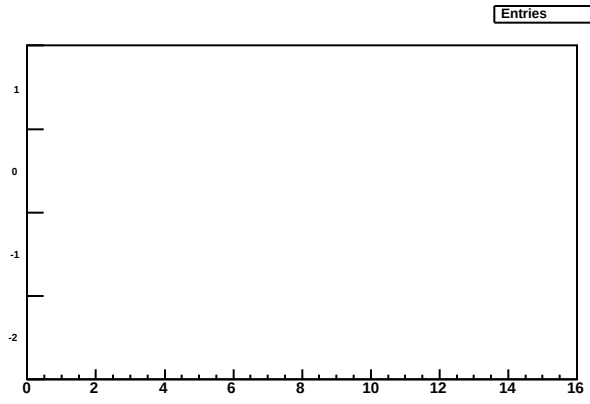


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)