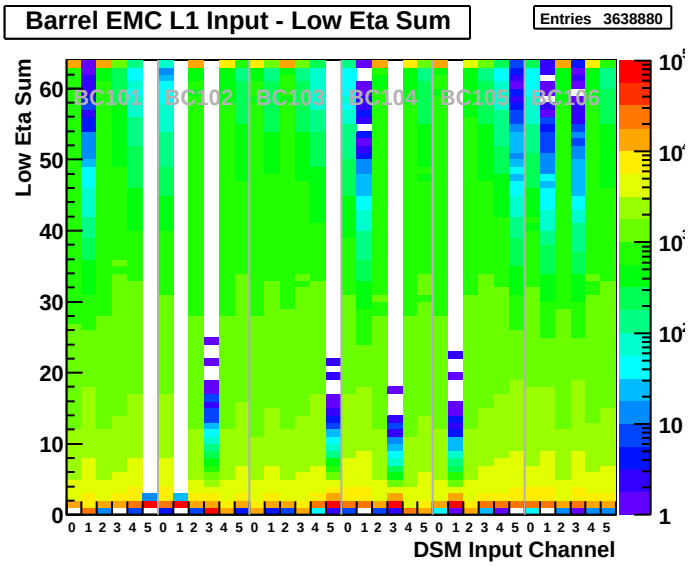
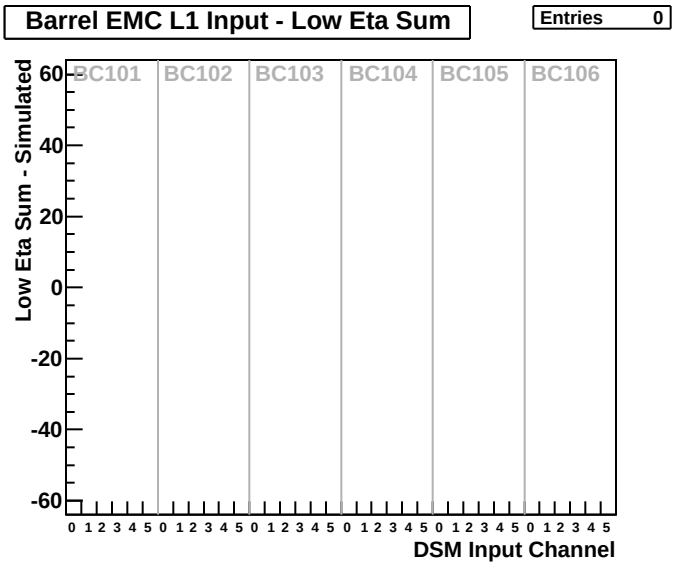
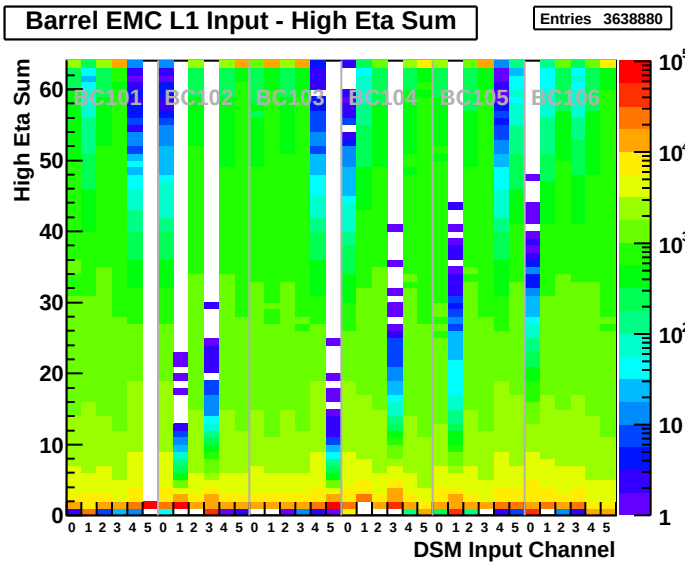
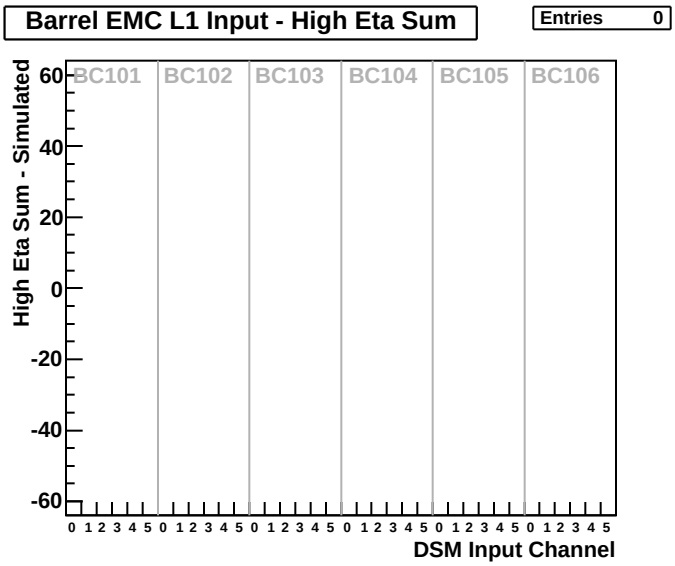
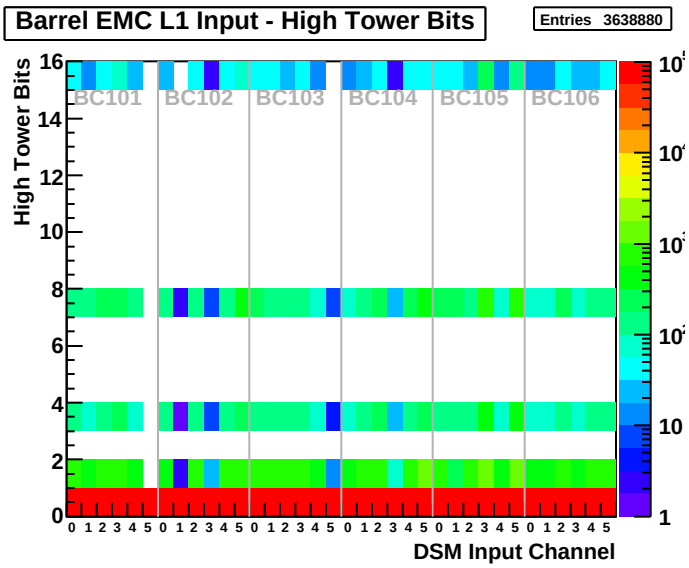
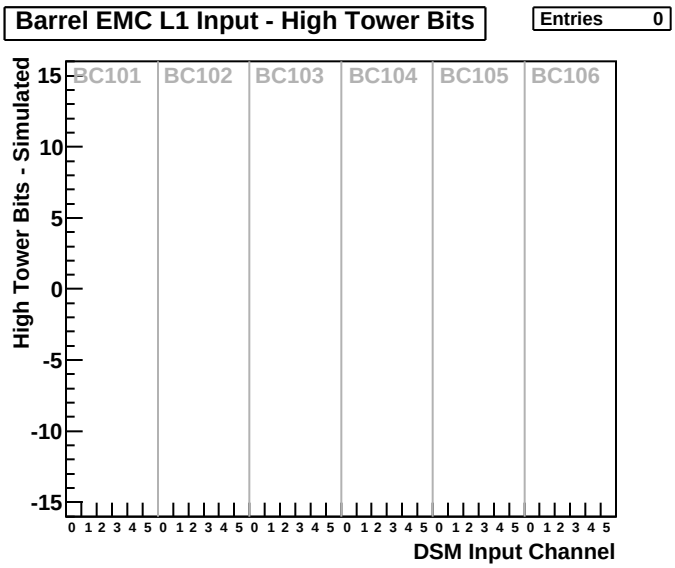

Barrel EMC L1 Input - Low Eta Sum
Entries 3638880
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

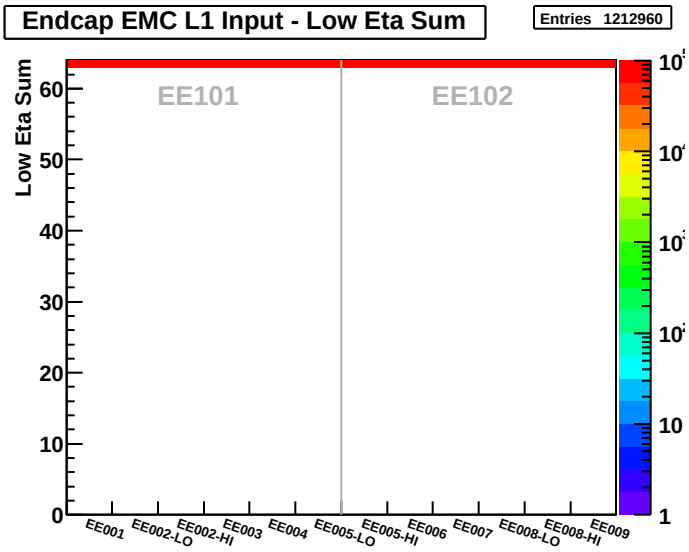

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

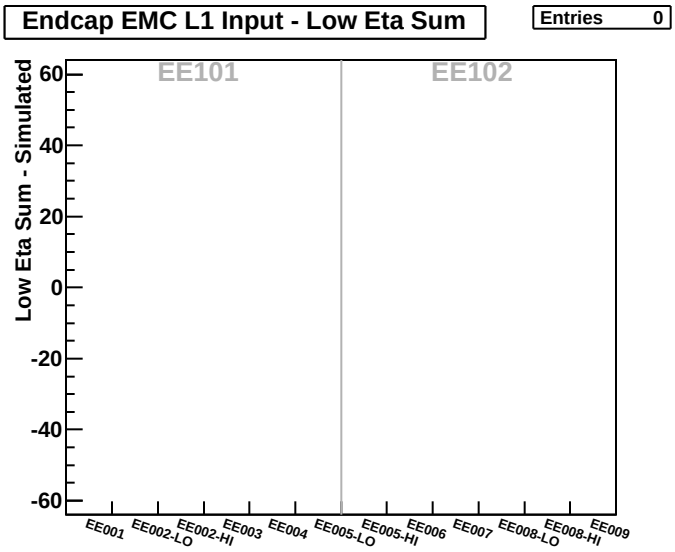

Barrel EMC L1 Input - High Eta Sum
Entries 3638880
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

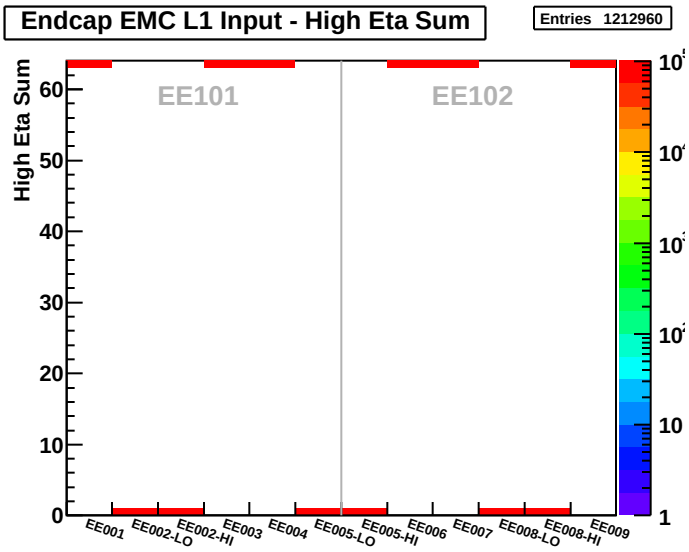

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

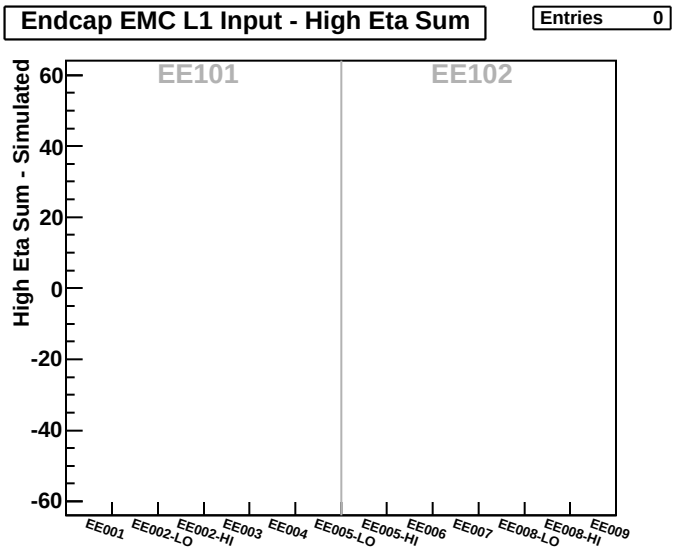

Barrel EMC L1 Input - High Tower Bits
Entries 3638880
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

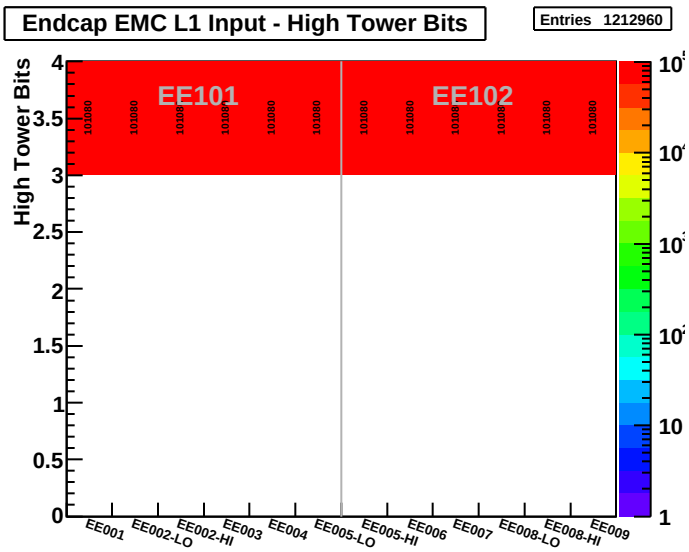

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

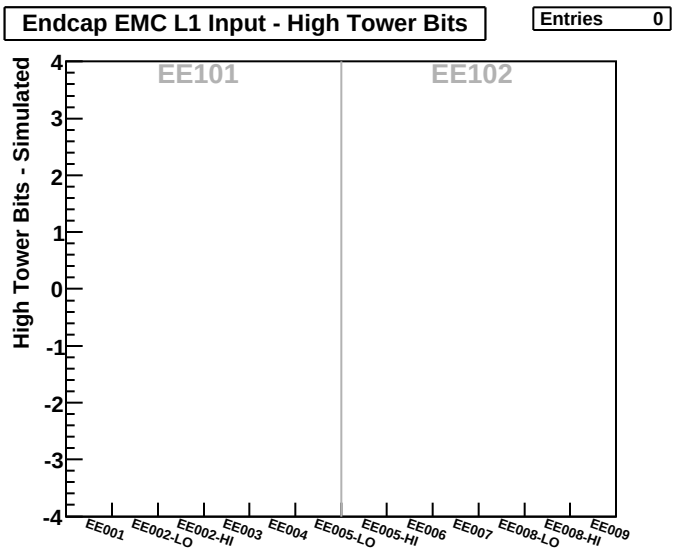

Endcap EMC L1 Input - Low Eta Sum
Entries 1212960
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

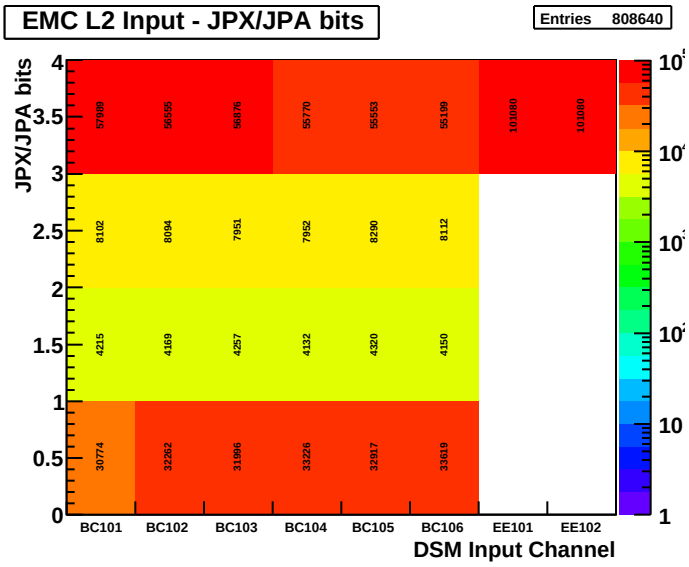

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

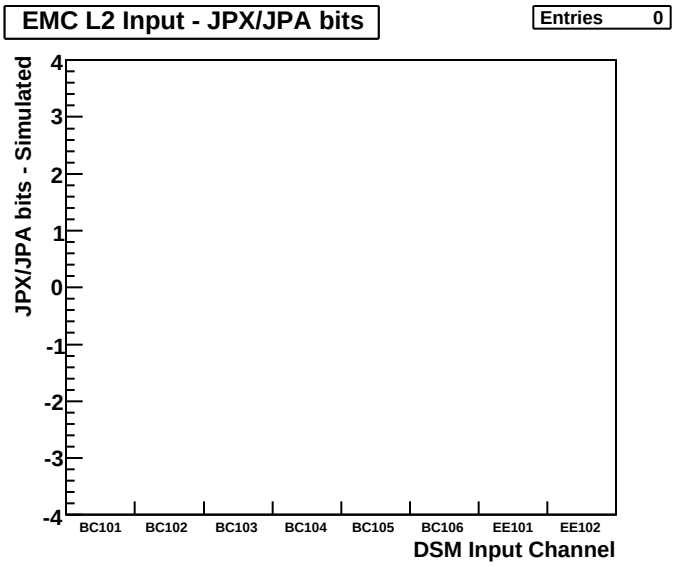

Endcap EMC L1 Input - High Eta Sum
Entries 1212960
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

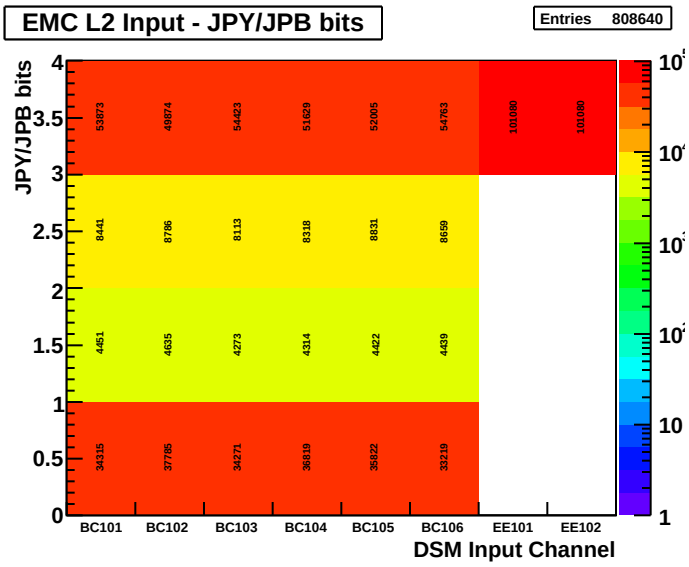

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

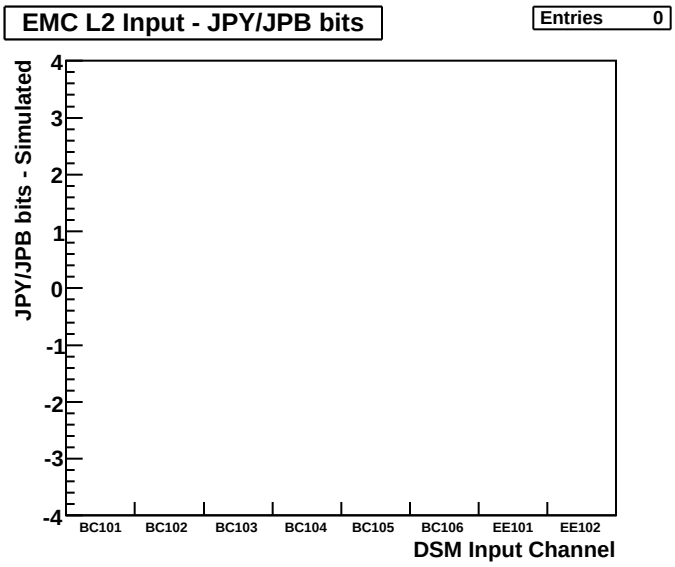

Endcap EMC L1 Input - High Tower Bits
Entries 1212960
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

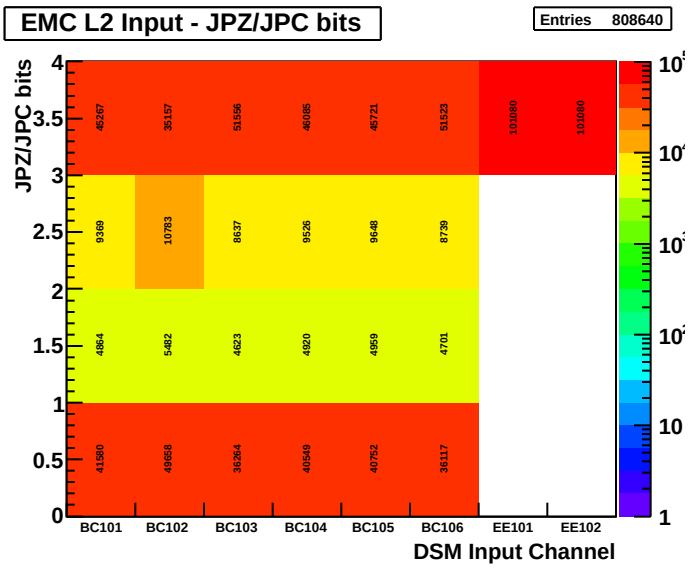

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

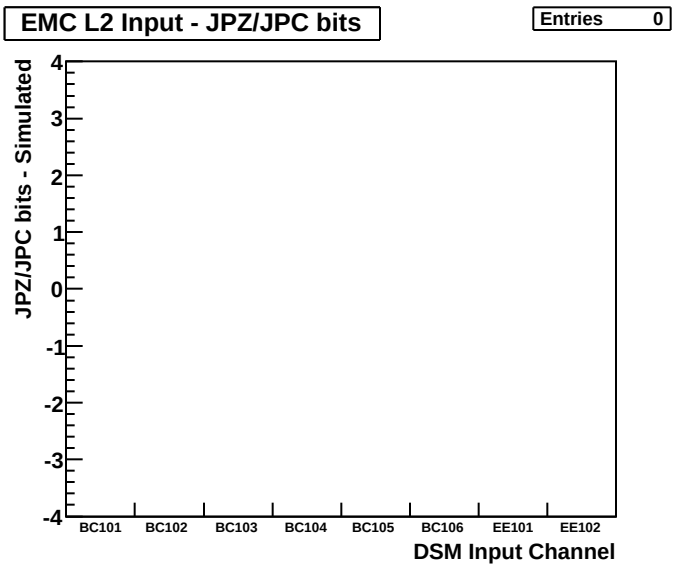

EMC L2 Input - JPX/JPA bits
Entries 808640
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
57989 56555 56876 55770 55553 55199 101080 101080
8102 8094 7951 7952 8290 8112
4215 4169 4257 4132 4320 4150
30774 32262 31896 33226 32917 33619

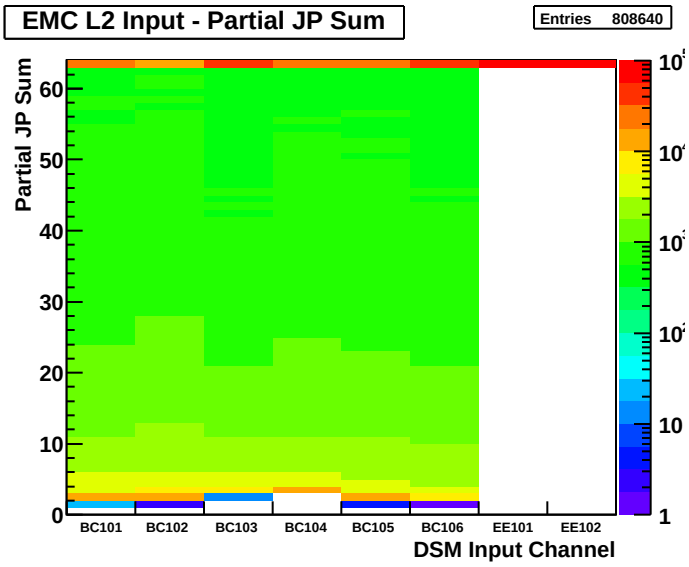

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

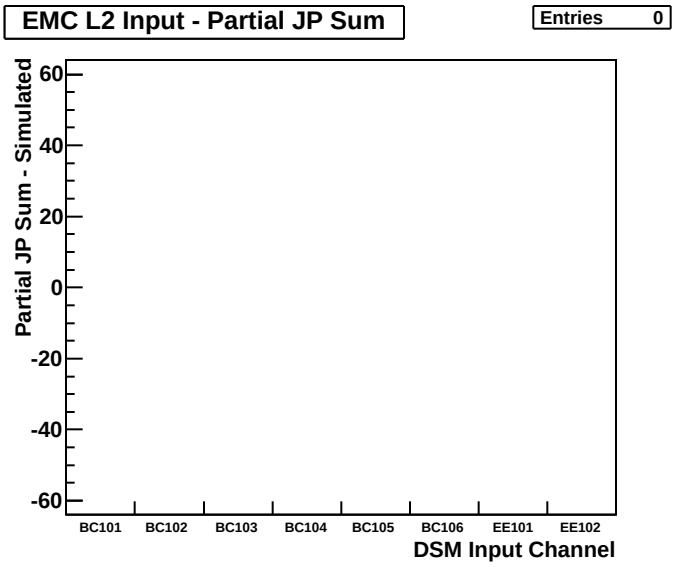

EMC L2 Input - JPY/JPB bits
Entries 808640
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
53873 49874 54423 51629 52005 54763 101080 101080
8441 8786 8113 8318 8831 8659
4451 4635 4273 4314 4422 4439
34315 37785 34271 36819 35822 33219

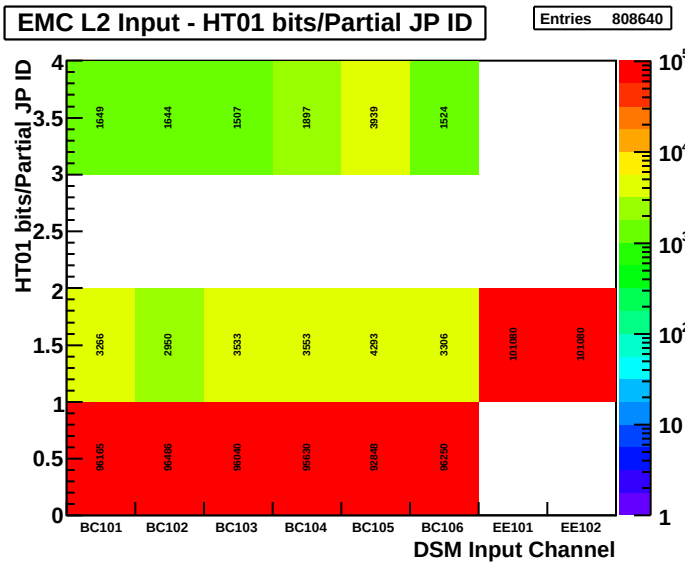

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

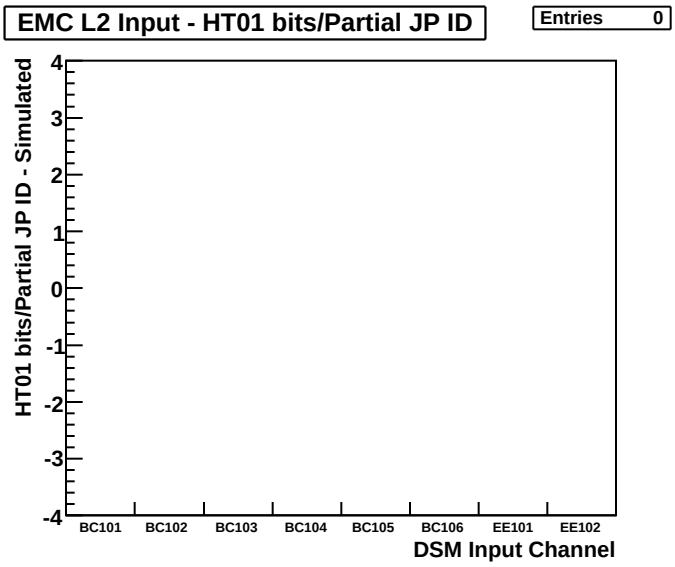

EMC L2 Input - JPZ/JPC bits
Entries 808640
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
45267 35157 51556 46085 45721 51523 101080 101080
9369 10783 8637 9526 9648 8739
4864 5482 4623 4920 4969 4701
41580 49658 36364 40549 40752 36117

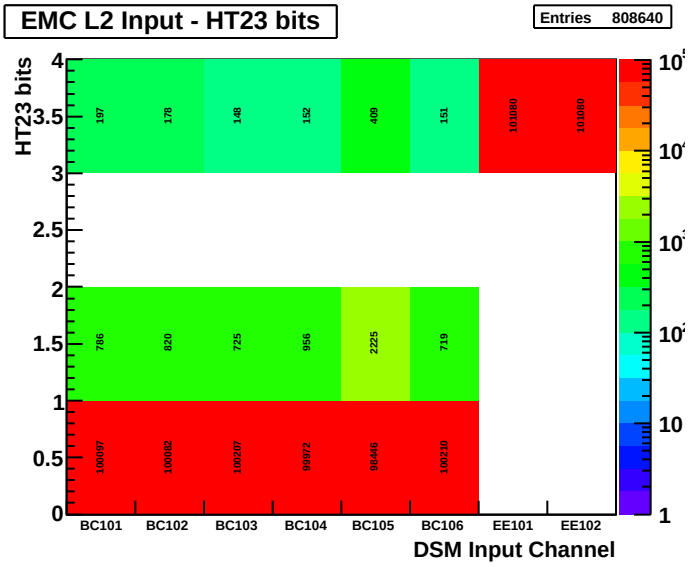

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

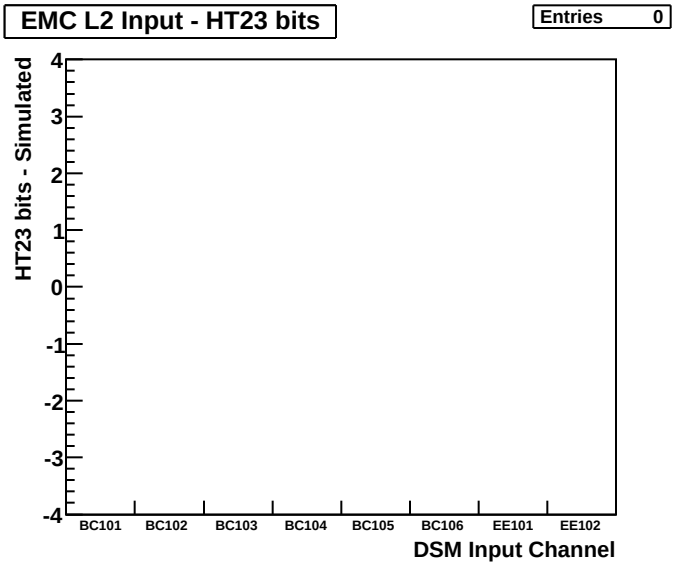

EMC L2 Input - Partial JP Sum
Entries 808640
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

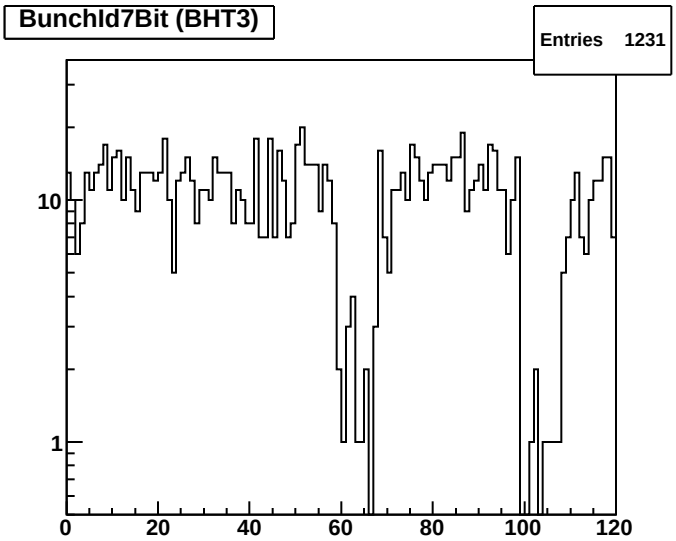

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

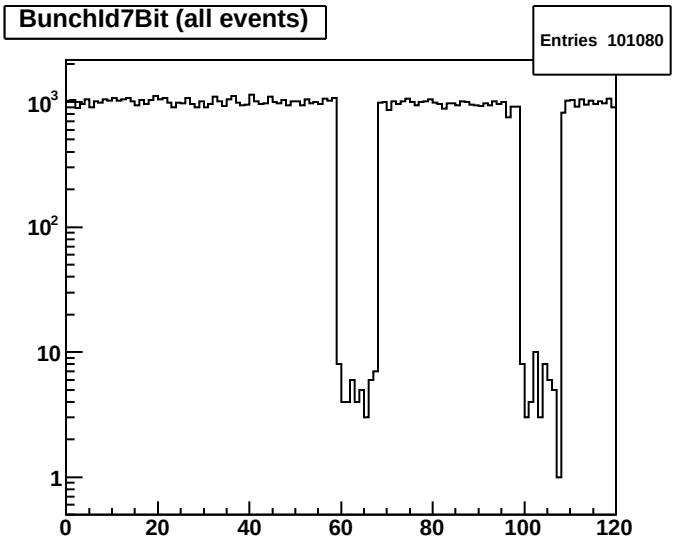

EMC L2 Input - HT01 bits/Partial JP ID
Entries 808640
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

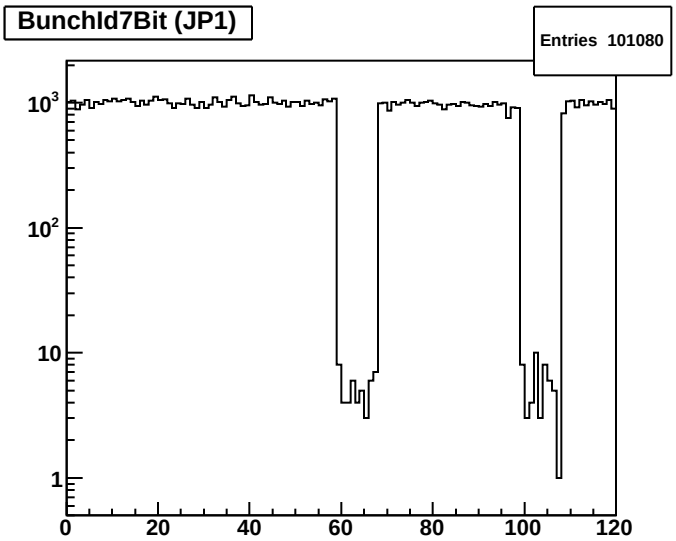

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

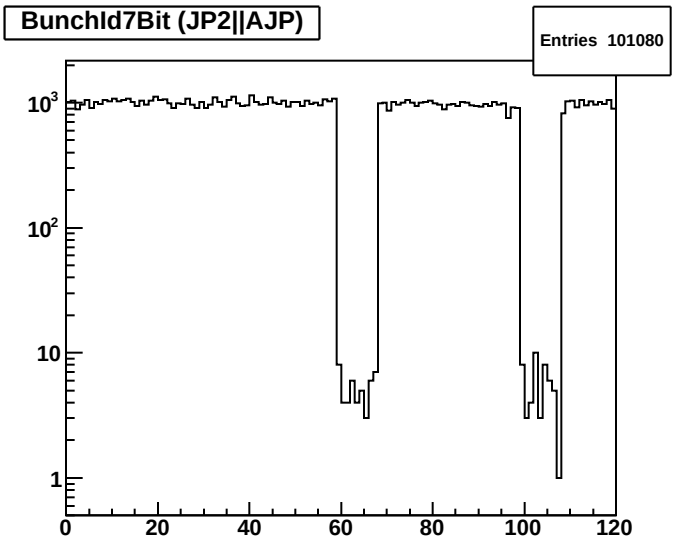

EMC L2 Input - HT23 bits
Entries 808640
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

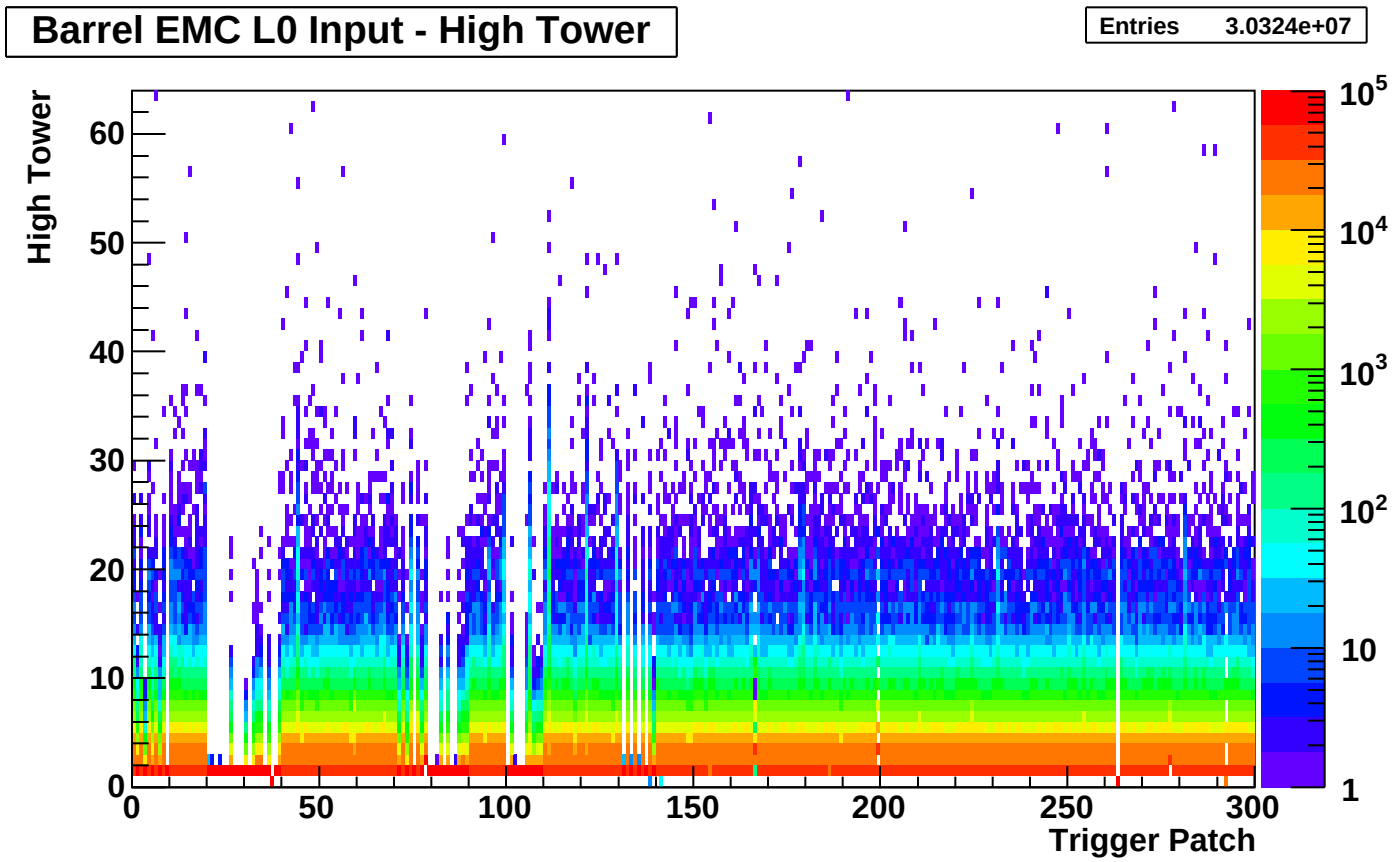

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

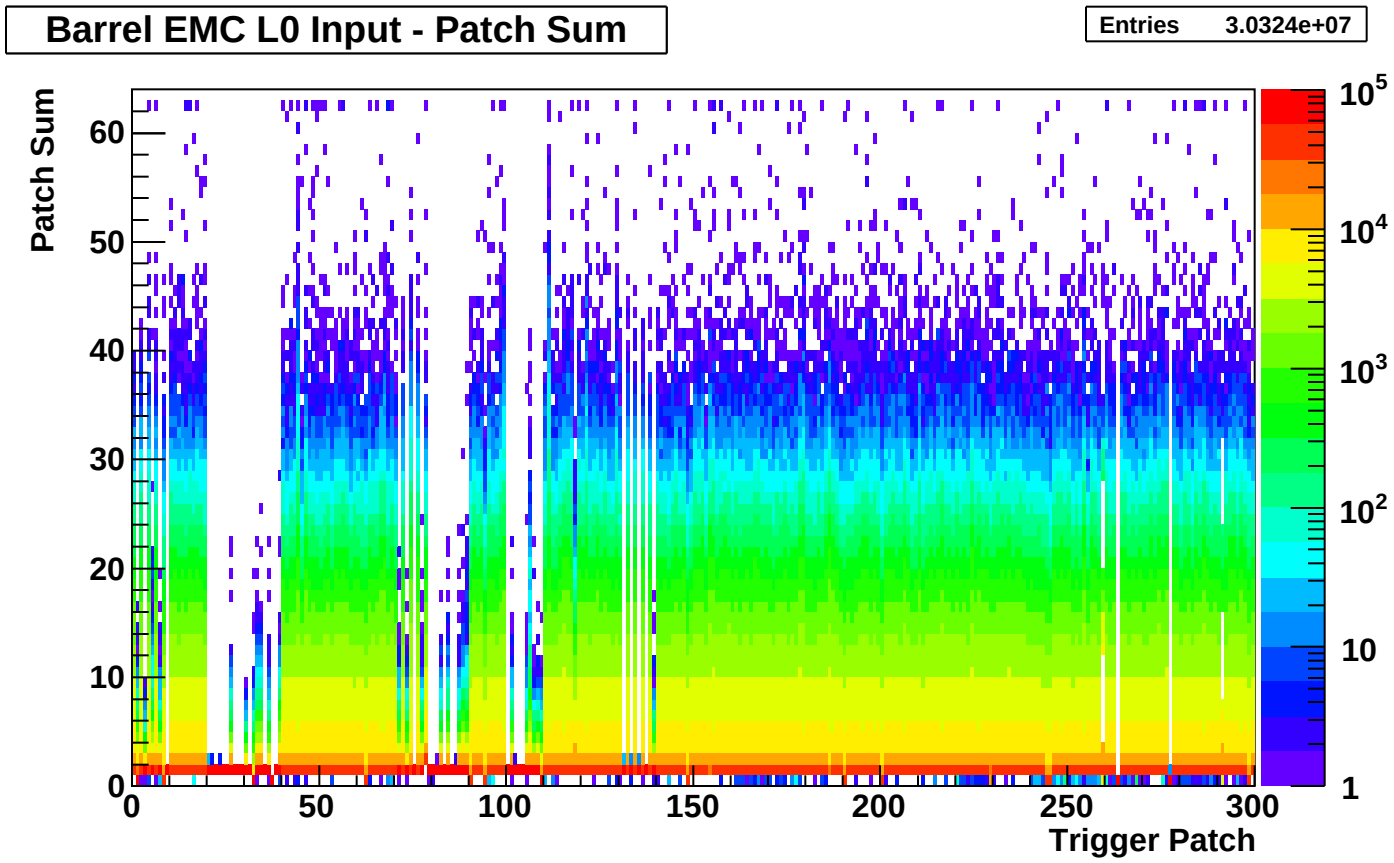

BunchId7Bit (BHT3)
Entries 1231
10
1
0
20
40
60
80
100
120

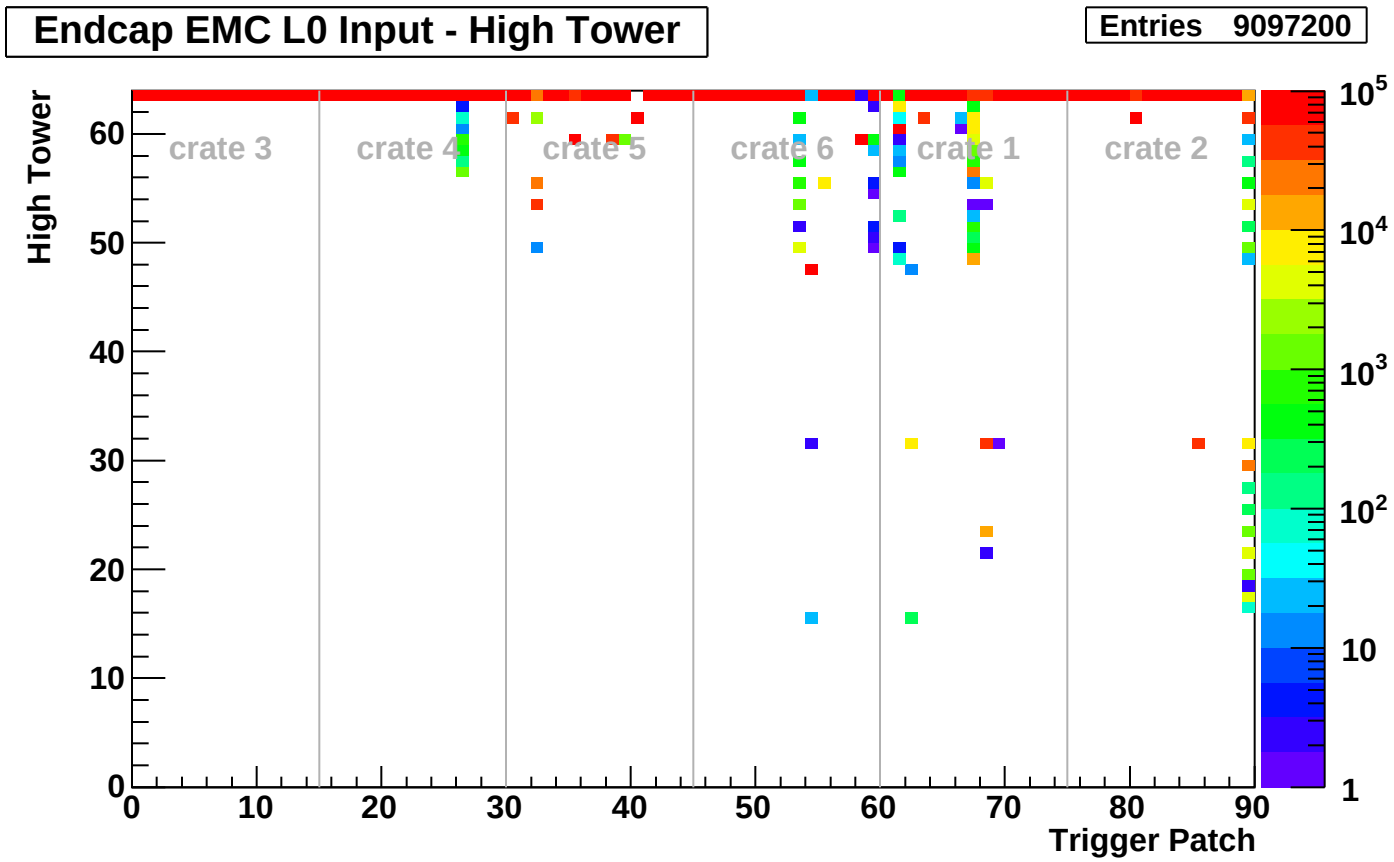

BunchId7Bit (all events)
Entries 101080
10^3
10^2
10
1
0
20
40
60
80
100
120

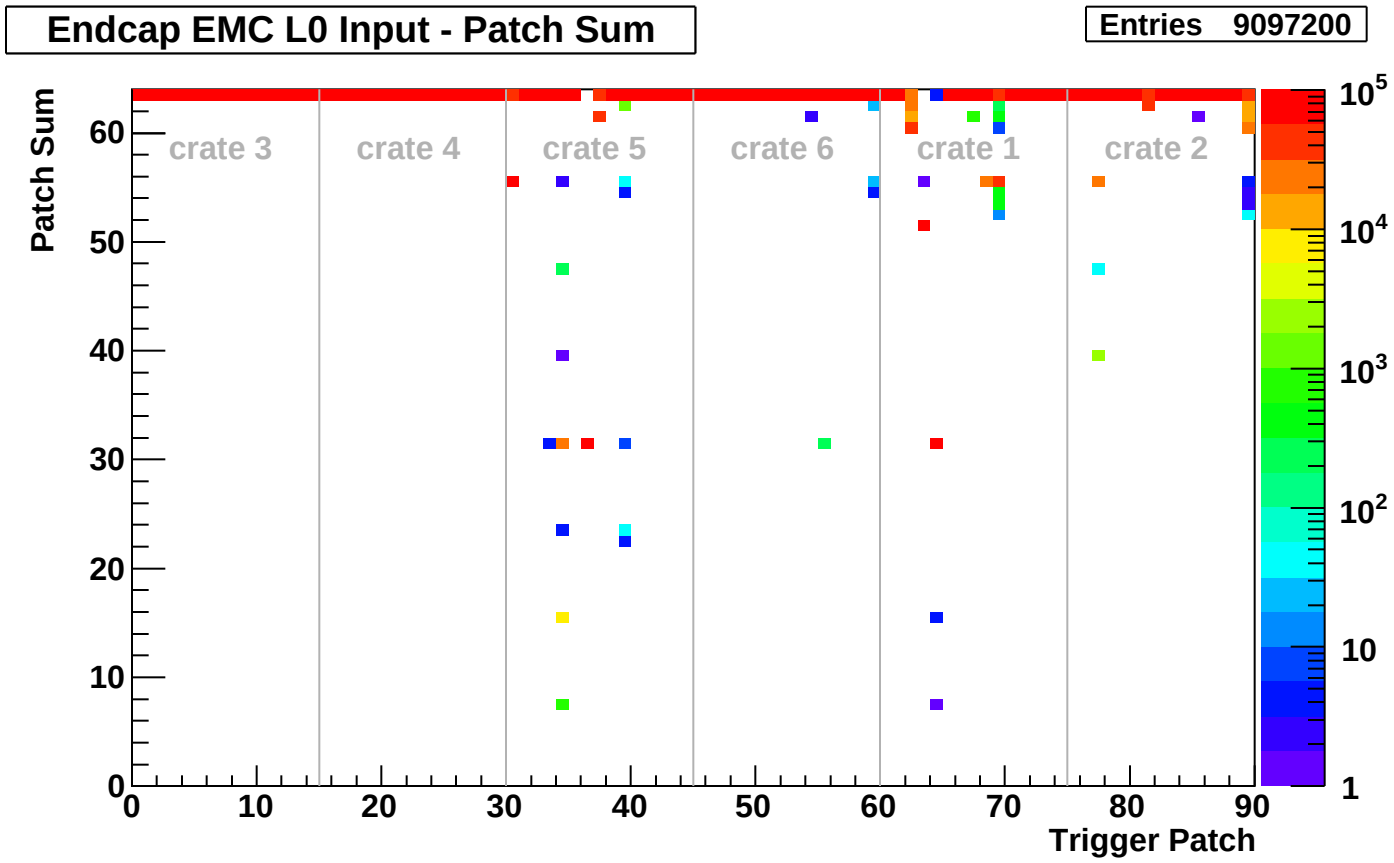

BunchId7Bit (JP1)
Entries 101080
10^3
10^2
10
1
0
20
40
60
80
100
120

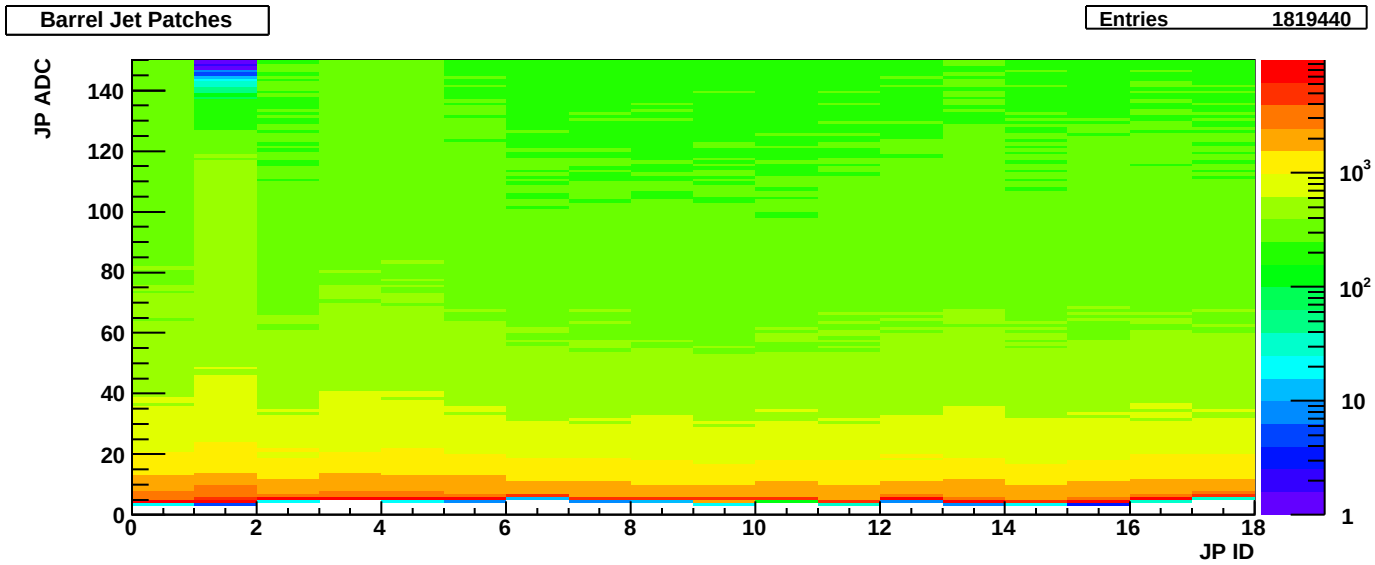

BunchId7Bit (JP2||AJP)
Entries 101080
10^3
10^2
10
1
0
20
40
60
80
100
120

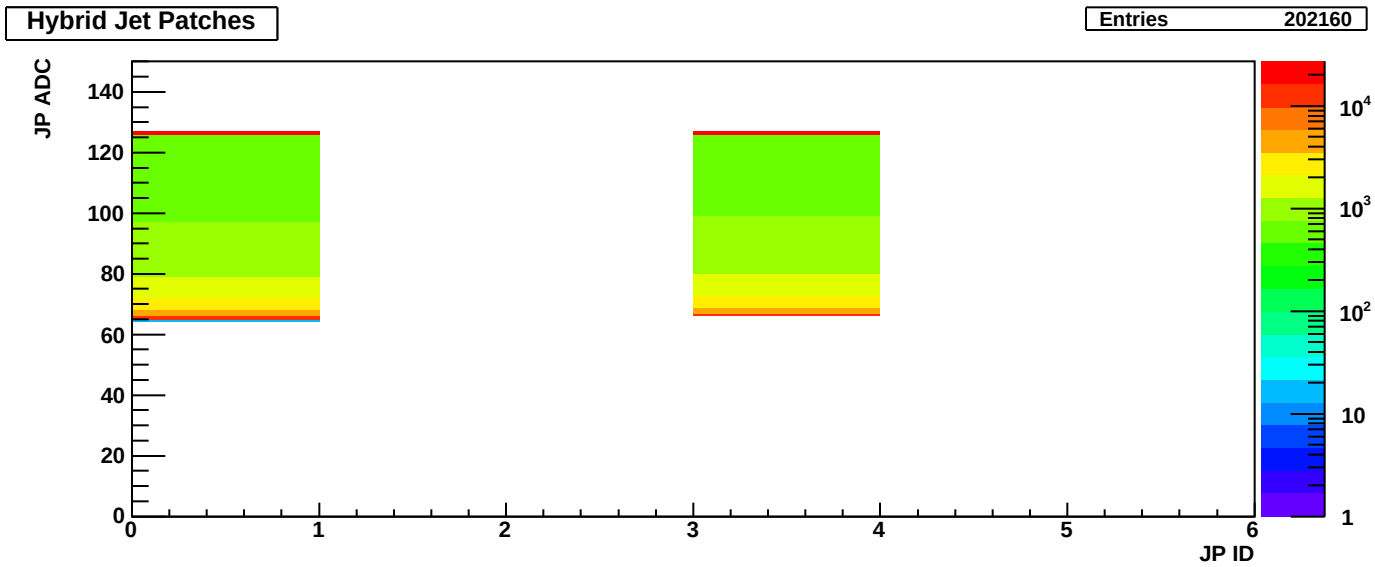

Barrel EMC L0 Input - High Tower
Entries 3.0324e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

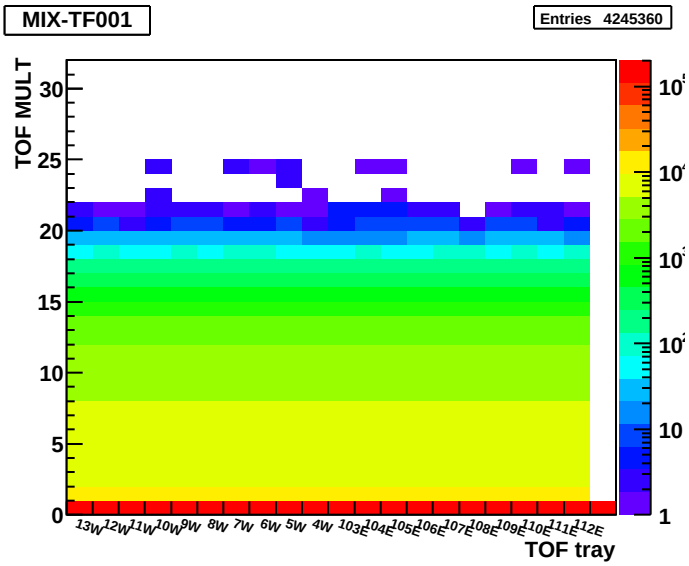

Barrel EMC L0 Input - Patch Sum
Entries 3.0324e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

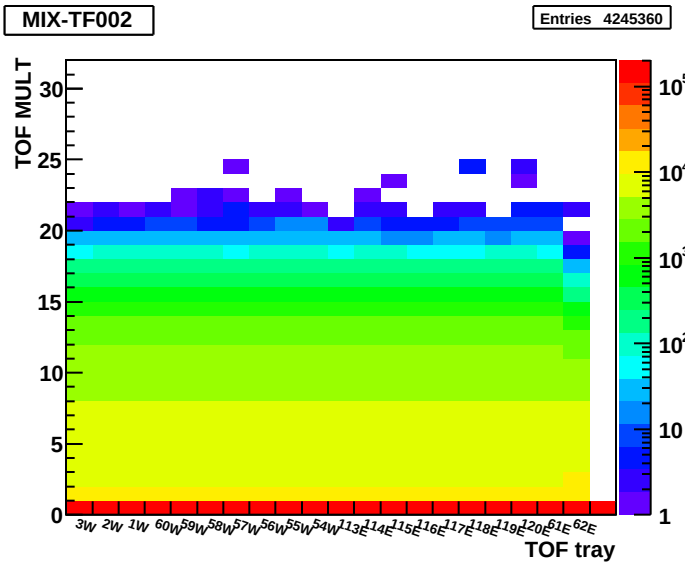

Endcap EMC L0 Input - High Tower
Entries 9097200
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

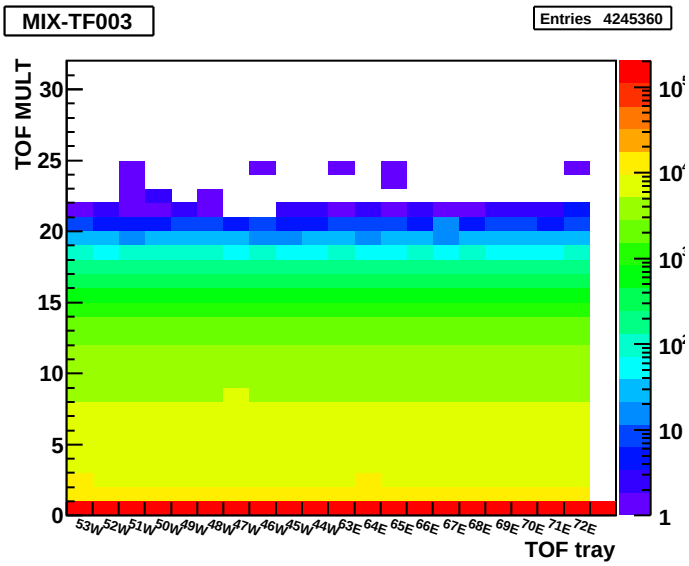

Endcap EMC L0 Input - Patch Sum
Entries 9097200
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

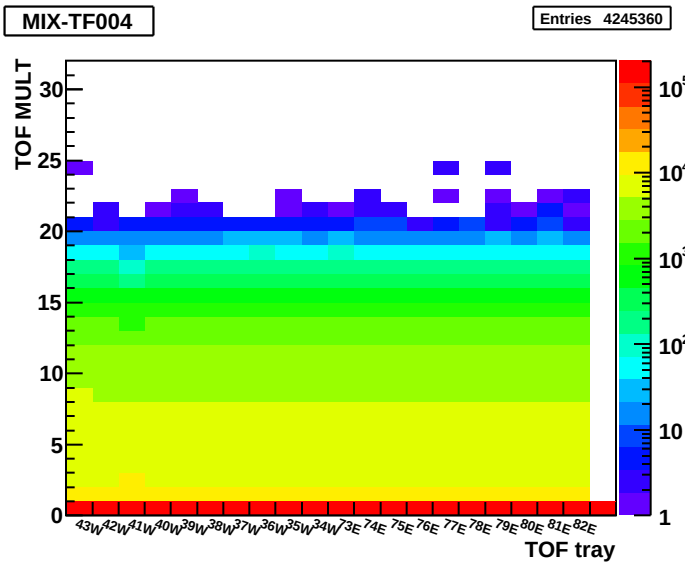

Barrel Jet Patches
Entries 1819440
JP ADC
JP ID

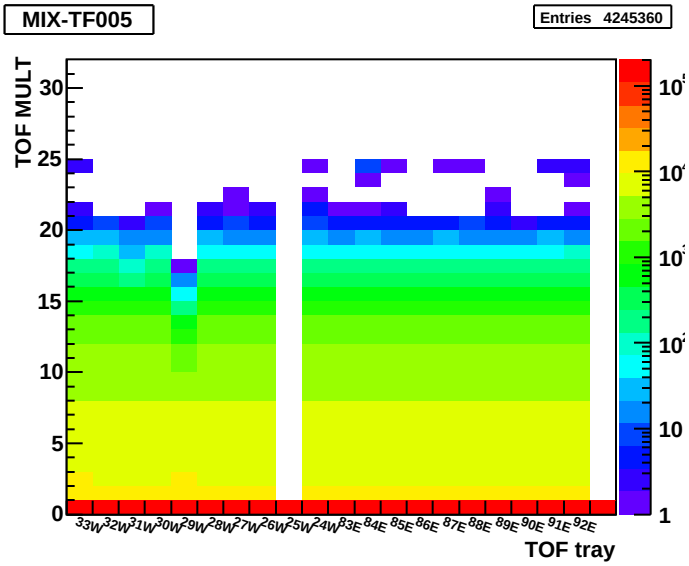

Hybrid Jet Patches
Entries 202160
JP ADC
JP ID

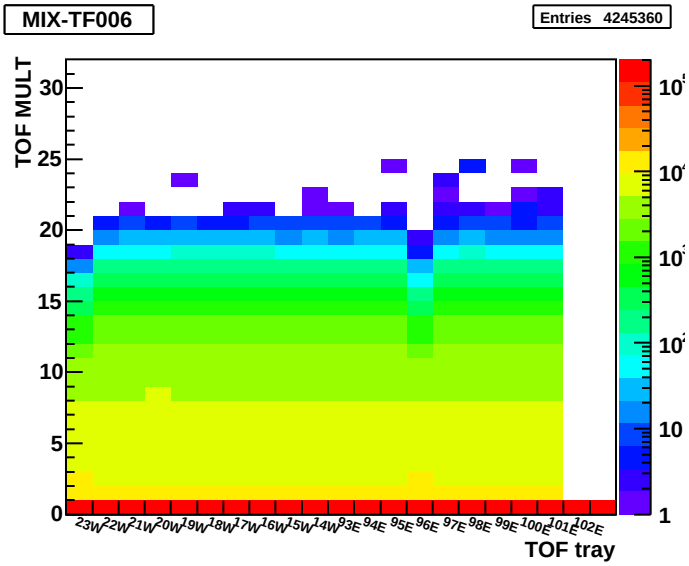

MIX-TF001
Entries 4245360
TOF MULT
TOF tray

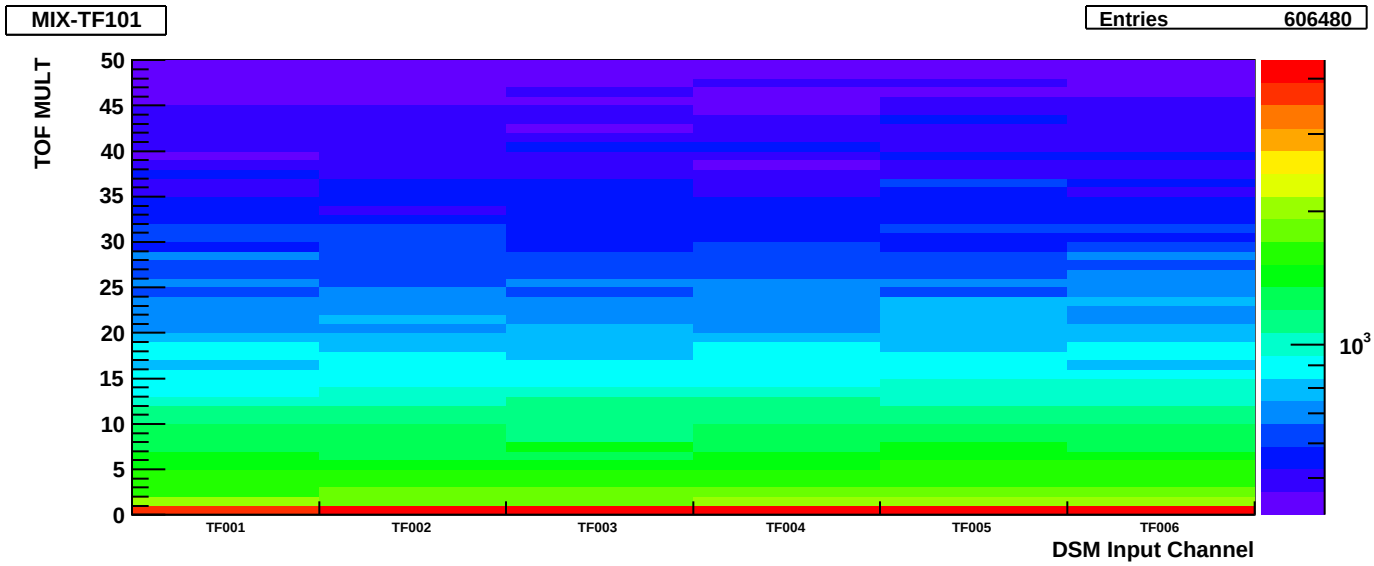

MIX-TF002
Entries 4245360
TOF MULT
TOF tray

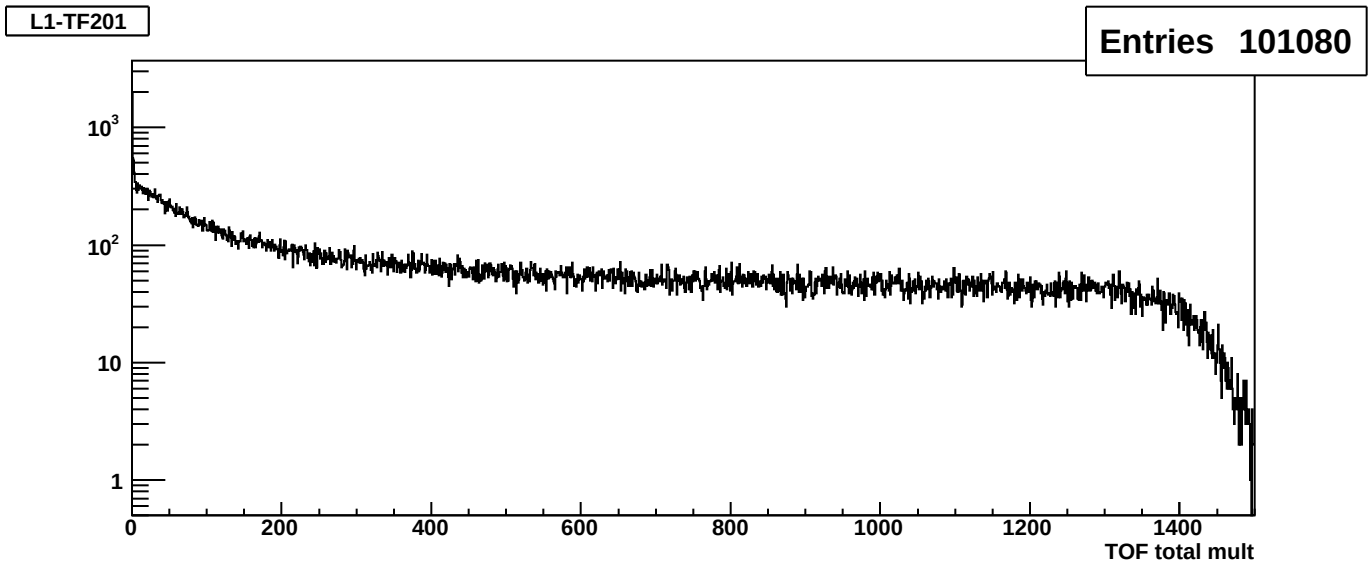

MIX-TF003
Entries 4245360
TOF MULT
TOF tray

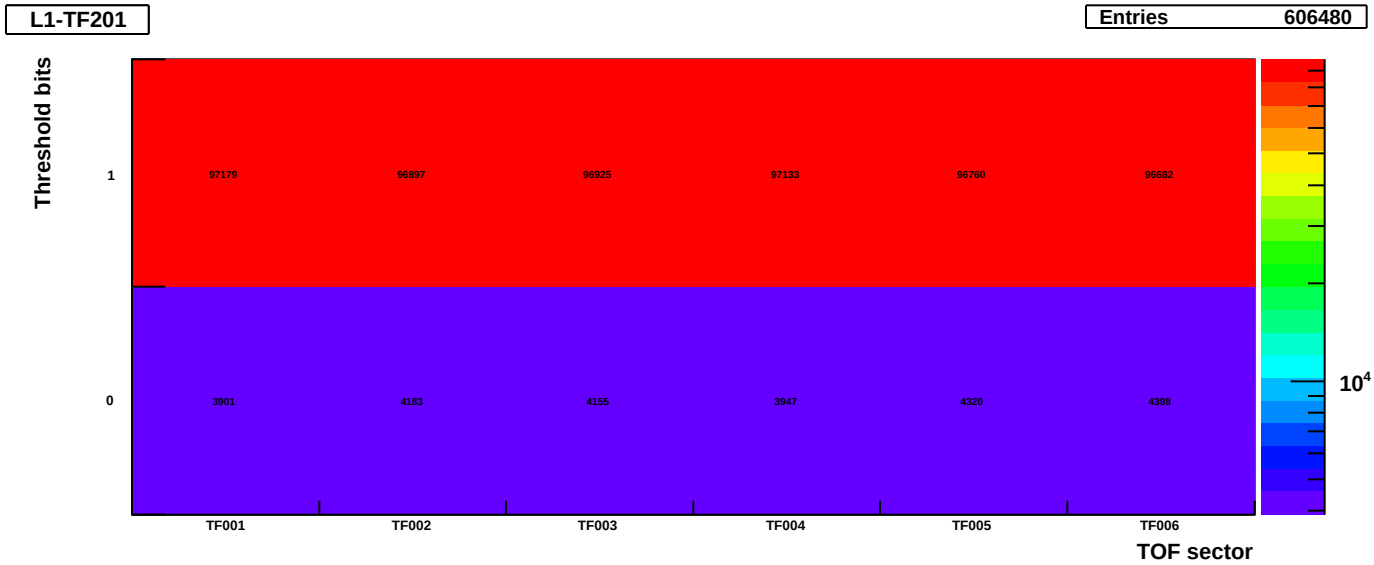

MIX-TF004
Entries 4245360
TOF MULT
TOF tray

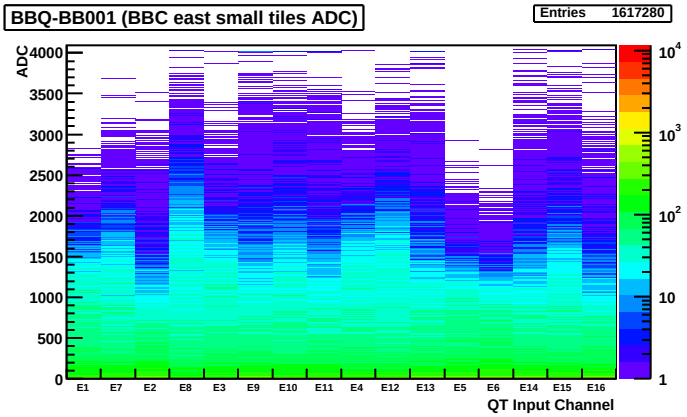

MIX-TF005
Entries 4245360
TOF MULT
TOF tray

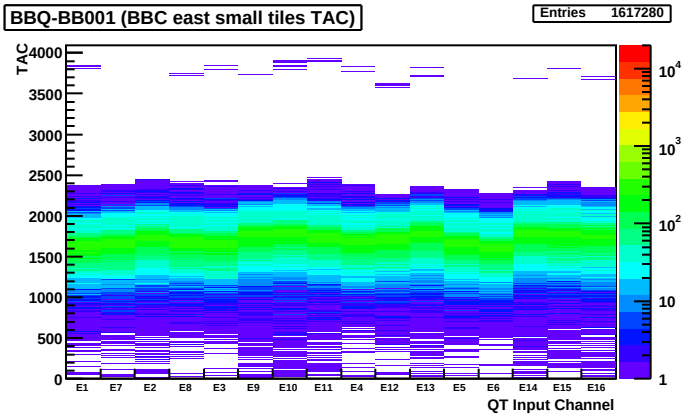

MIX-TF006
Entries 4245360
TOF MULT
TOF tray

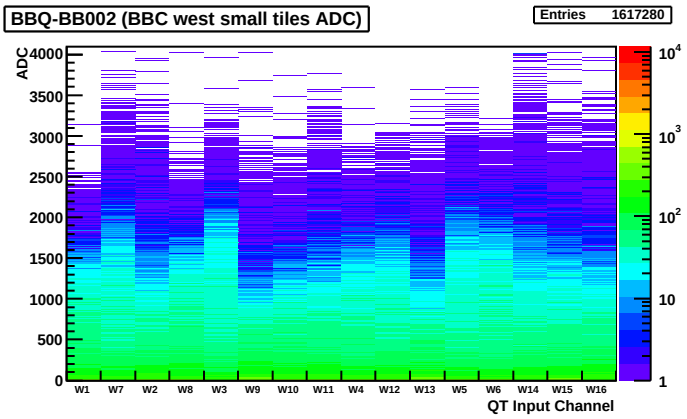

MIX-TF101
Entries 606480
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

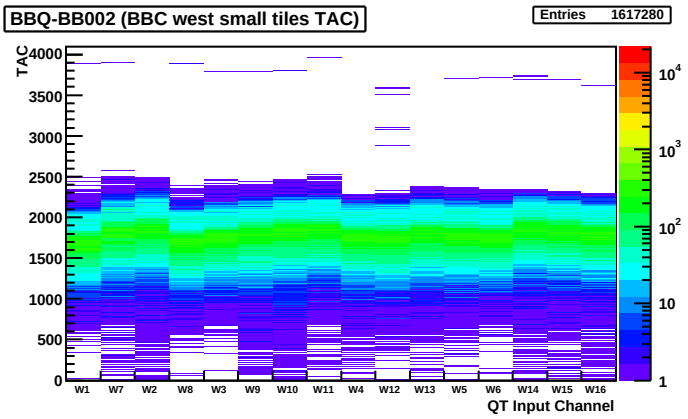

L1-TF201
Entries 101080
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

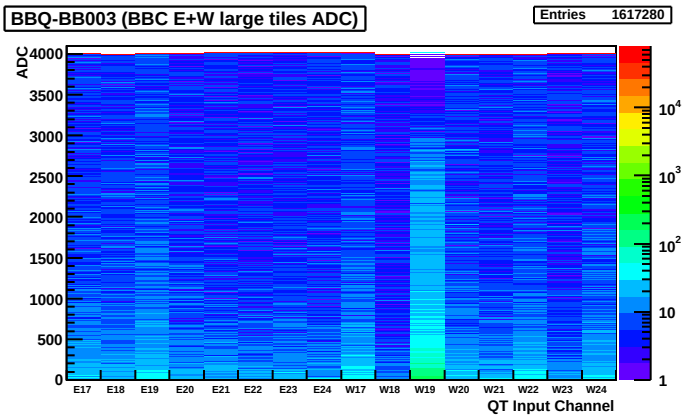

L1-TF201
Entries 606480
Threshold bits
1
0
97179
96897
96925
97133
96760
96682
3901
4183
4155
3947
4320
4398
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

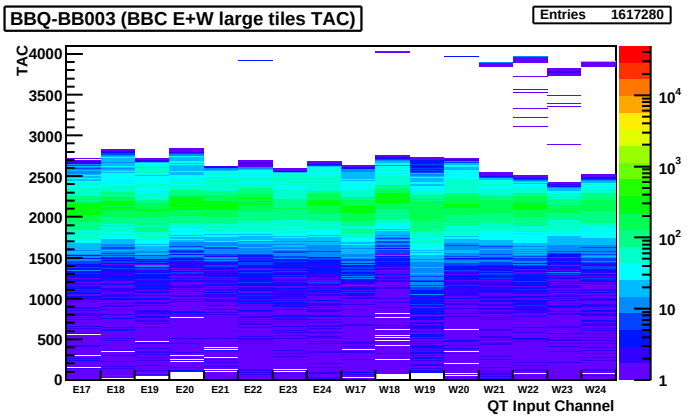

BBQ-BB001 (BBC east small tiles ADC)
Entries 1617280
ADC
QT Input Channel

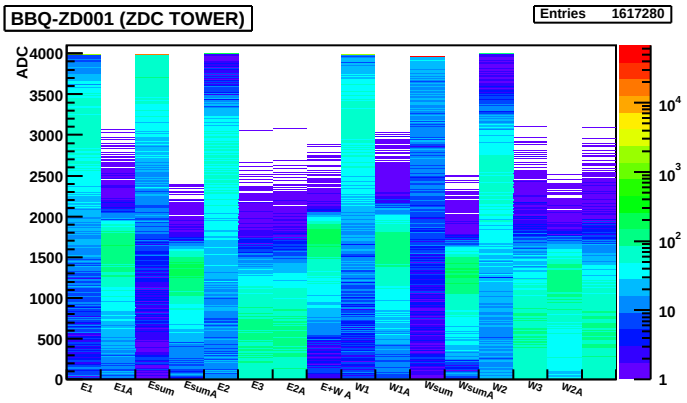

BBQ-BB001 (BBC east small tiles TAC)
Entries 1617280
TAC
QT Input Channel

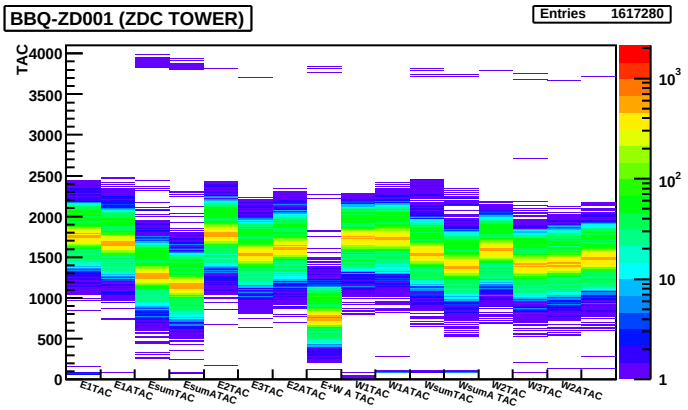

BBQ-BB002 (BBC west small tiles ADC)
Entries 1617280
ADC
QT Input Channel

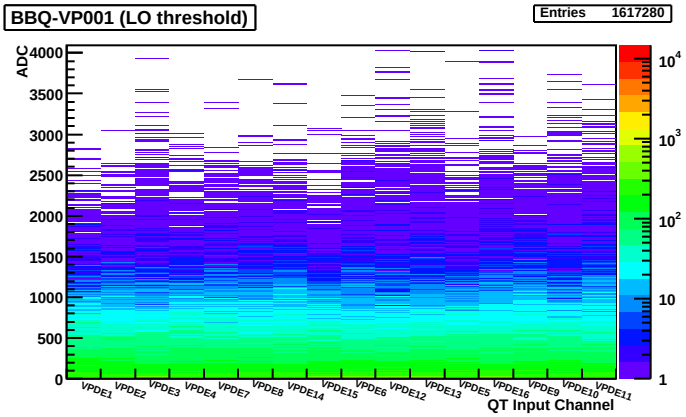

BBQ-BB002 (BBC west small tiles TAC)
Entries 1617280
TAC
QT Input Channel

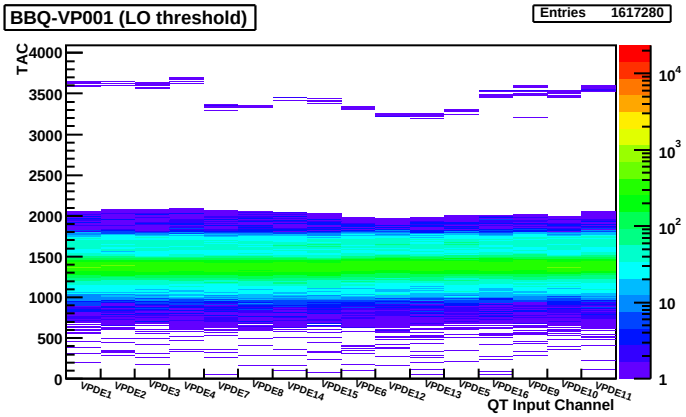

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1617280
ADC
QT Input Channel

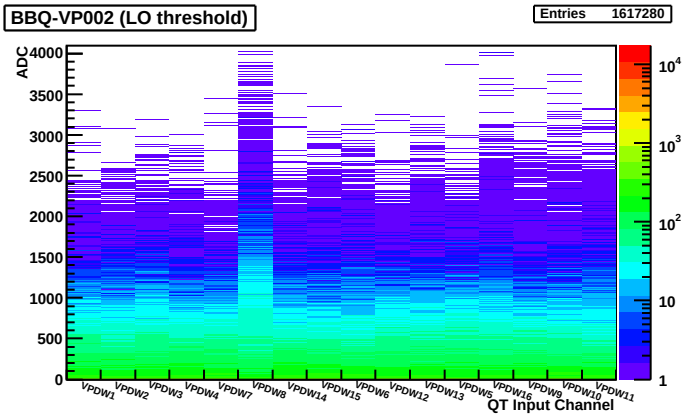

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1617280
TAC
QT Input Channel

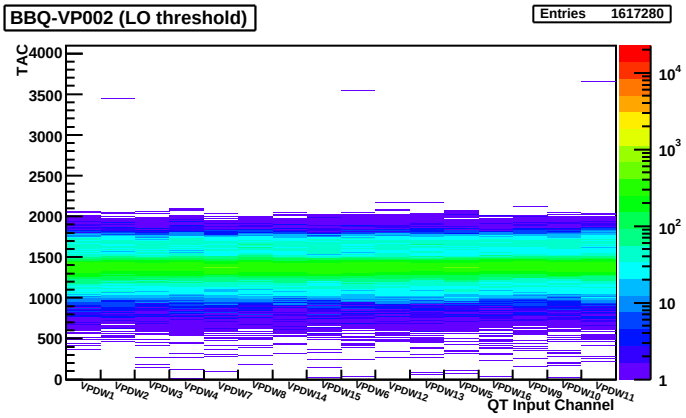

BBQ-ZD001 (ZDC TOWER)
Entries 1617280
ADC

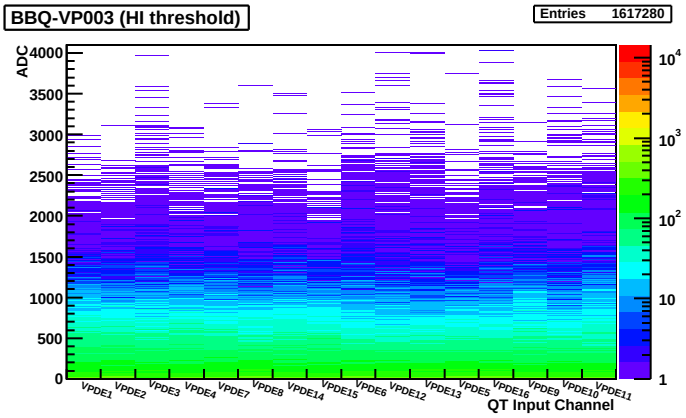

BBQ-ZD001 (ZDC TOWER)
Entries 1617280
TAC

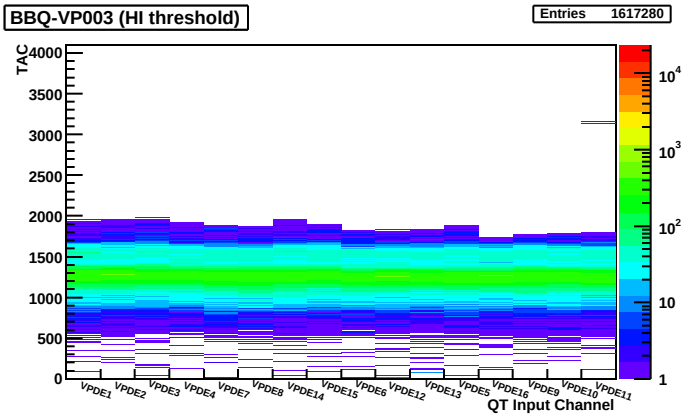

BBQ-VP001 (LO threshold)
Entries 1617280
ADC
QT Input Channel

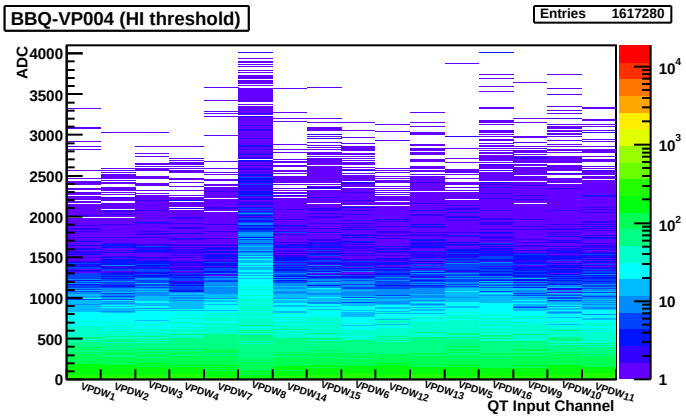

BBQ-VP001 (LO threshold)
Entries 1617280
TAC
QT Input Channel

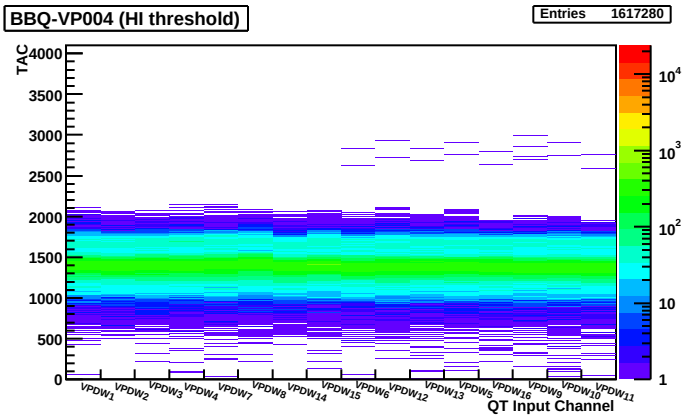

BBQ-VP002 (LO threshold)
Entries 1617280
ADC
QT Input Channel

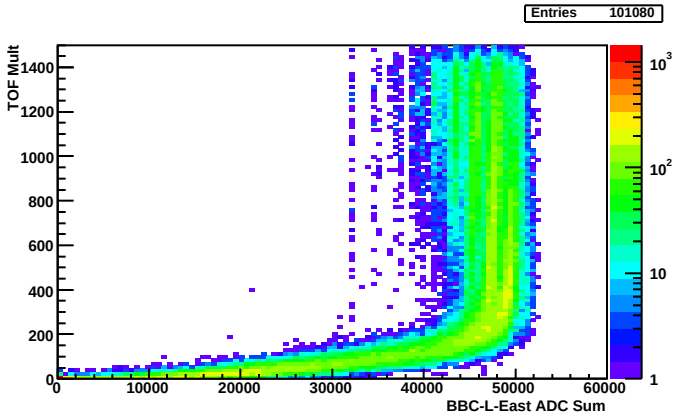

BBQ-VP002 (LO threshold)
Entries 1617280
TAC
QT Input Channel

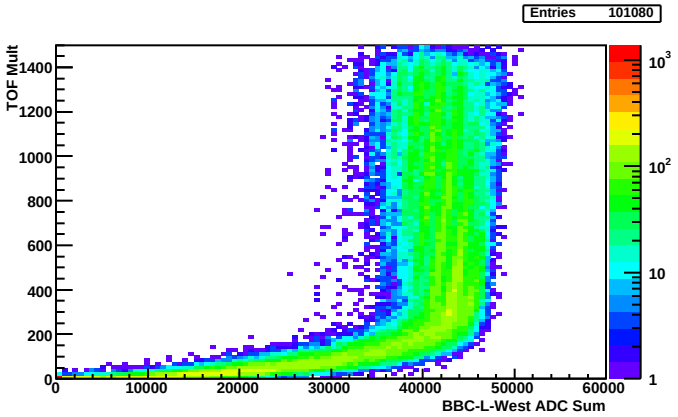

BBQ-VP003 (HI threshold)
Entries 1617280
ADC
QT Input Channel

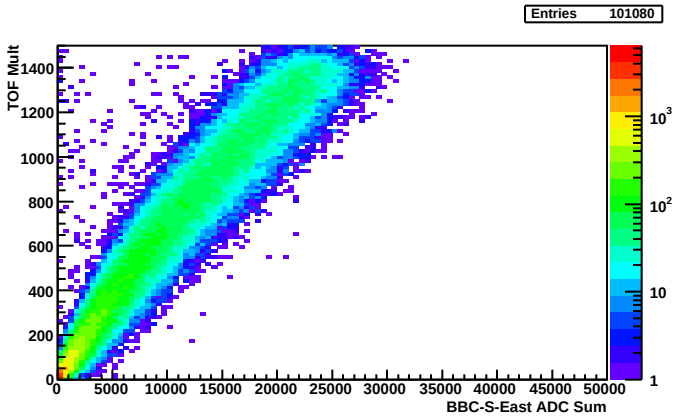

BBQ-VP003 (HI threshold)
Entries 1617280
TAC
QT Input Channel

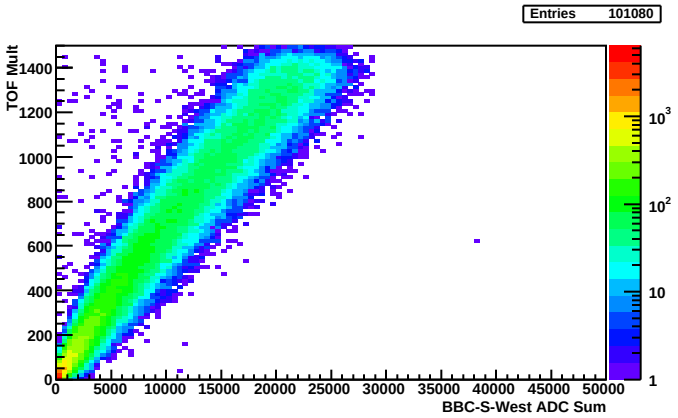

BBQ-VP004 (HI threshold)
Entries 1617280
ADC
QT Input Channel

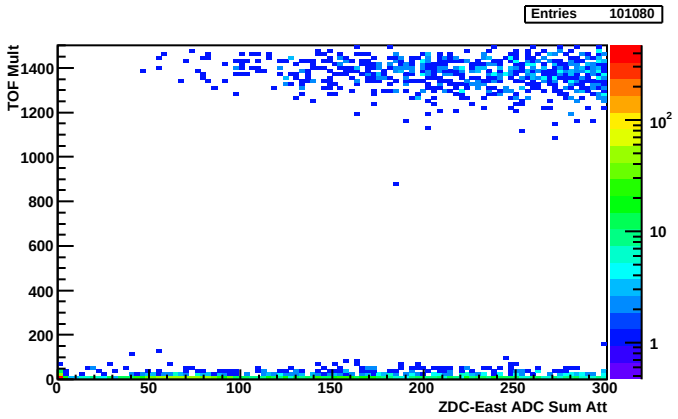

BBQ-VP004 (HI threshold)
Entries 1617280
TAC
QT Input Channel

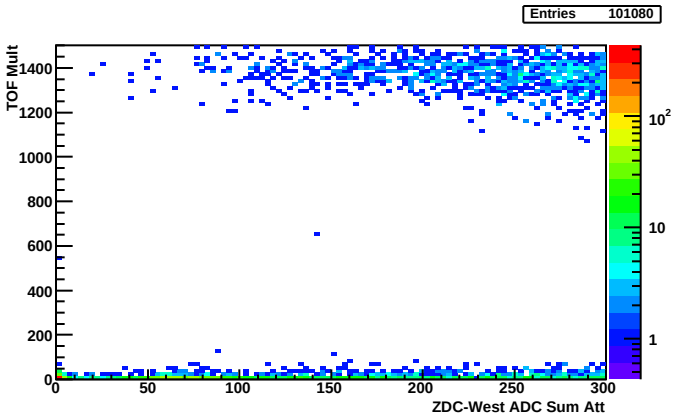

Entries 101080
TOF Mult
BBC-L-East ADC Sum

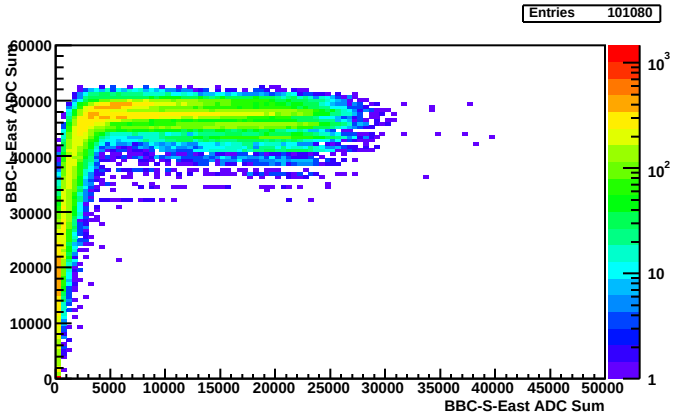

Entries 101080
TOF Mult
BBC-L-West ADC Sum

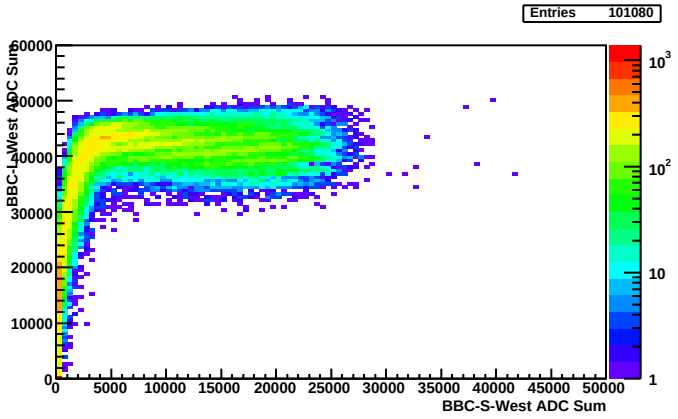

Entries 101080
TOF Mult
BBC-S-East ADC Sum

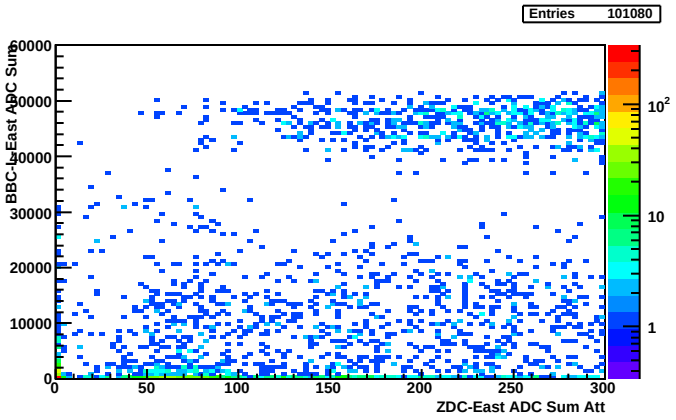

Entries 101080
TOF Mult
BBC-S-West ADC Sum

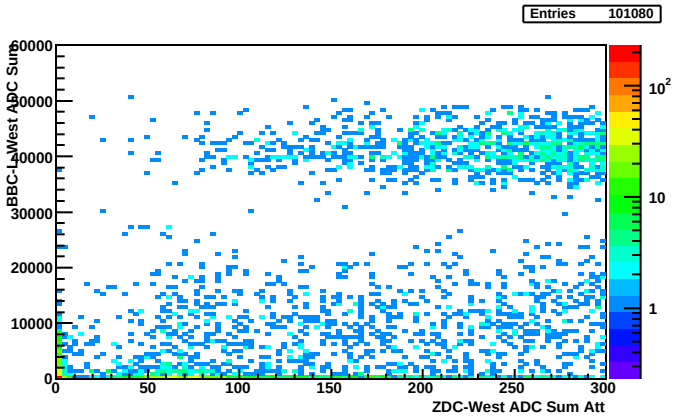

Entries 101080
TOF Mult
ZDC-East ADC Sum Att

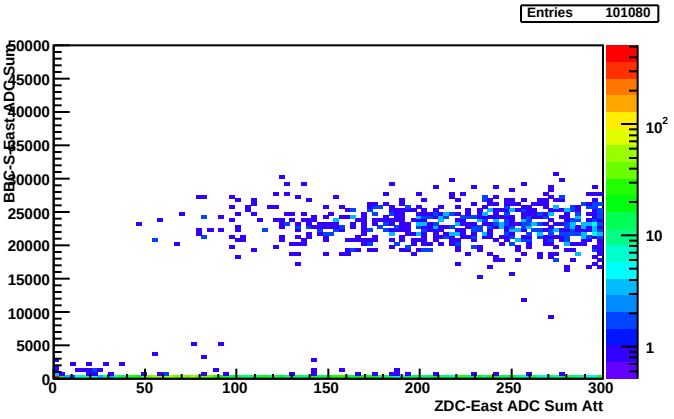

Entries 101080
TOF Mult
ZDC-West ADC Sum Att


Entries 101080
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 101080
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 101080
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 101080
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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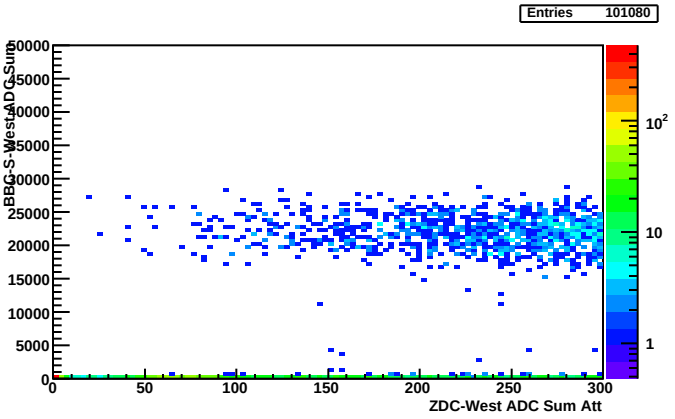
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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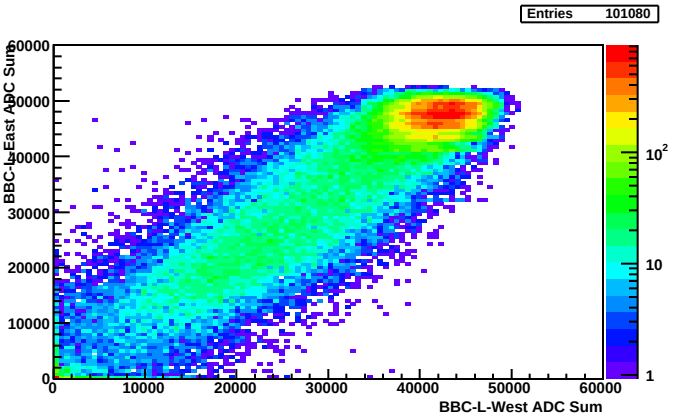
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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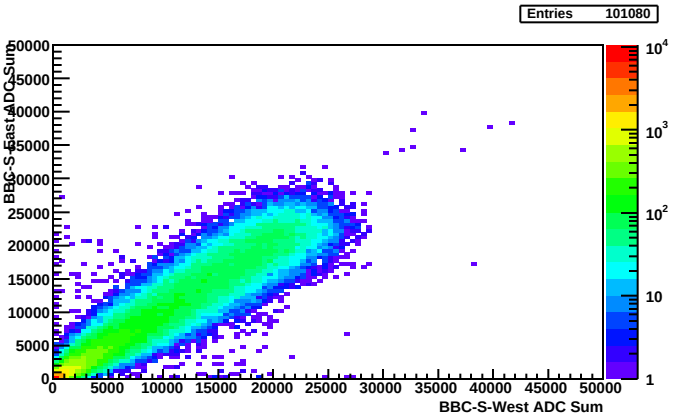
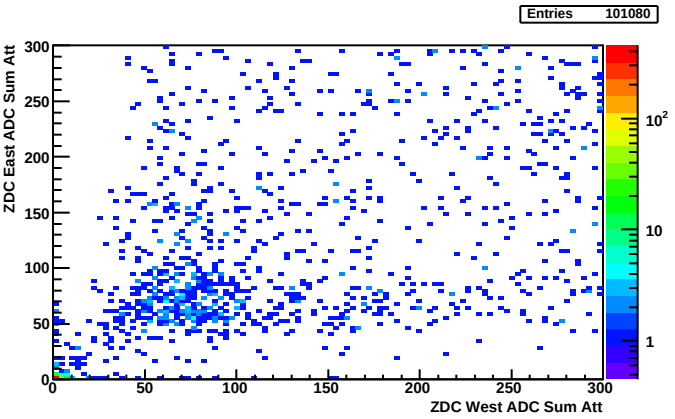
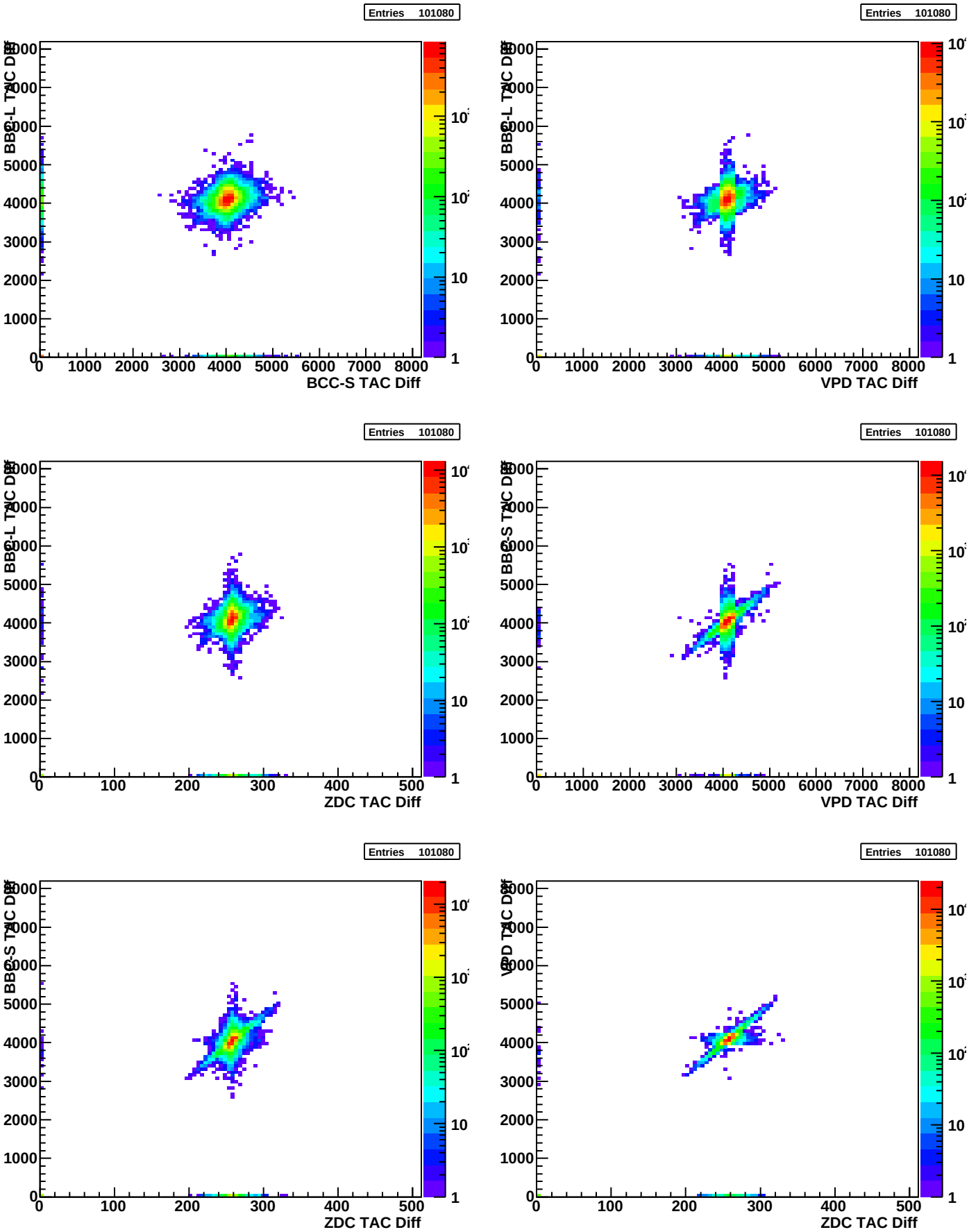
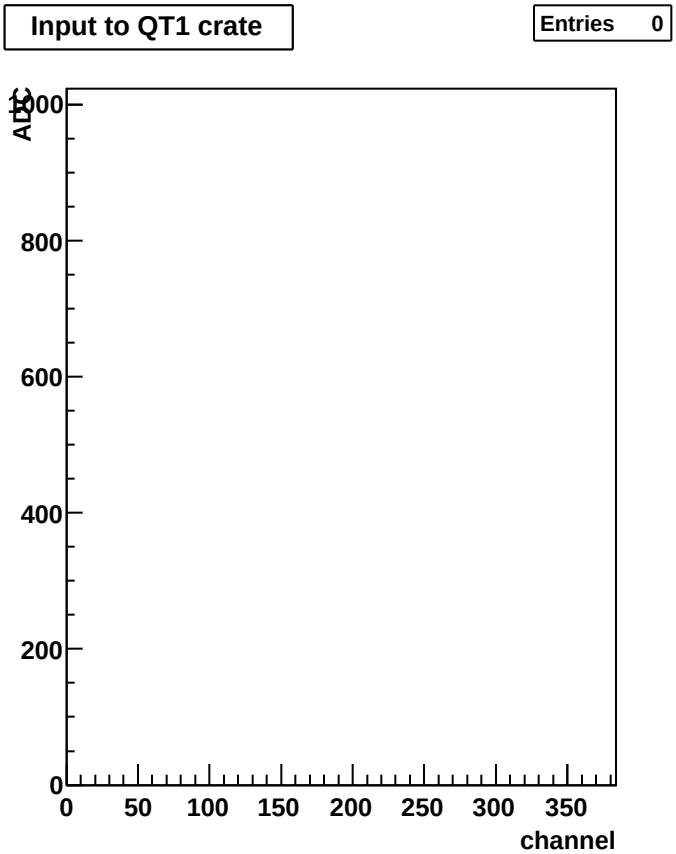
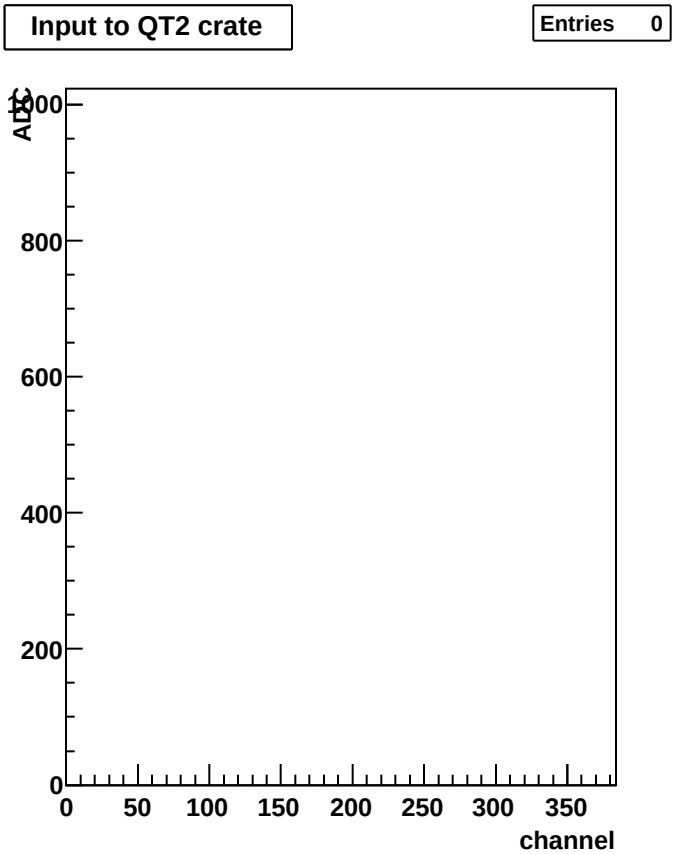
BBC-L-East ADC Sum
BBC-L-West ADC Sum

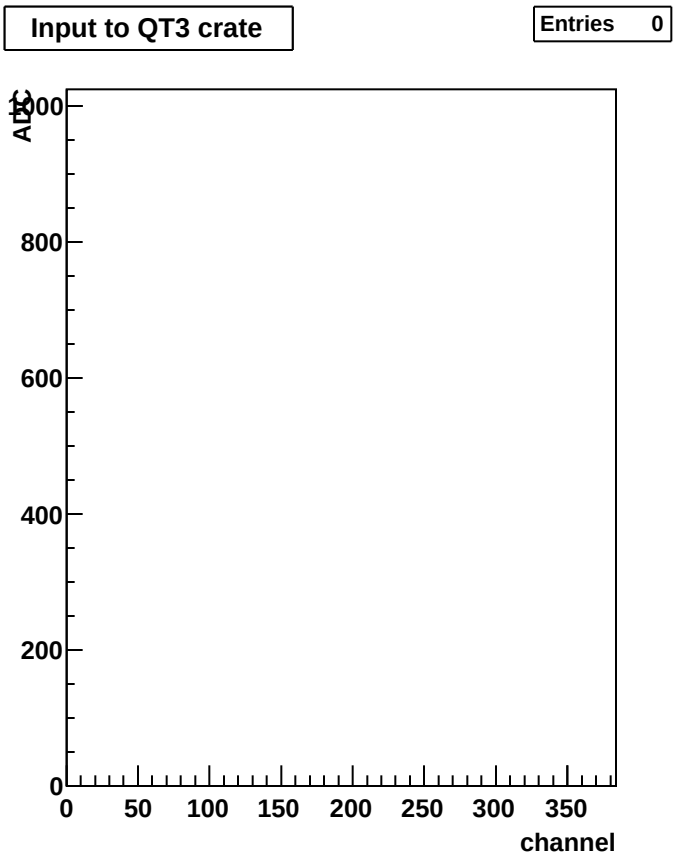

Entries 101080
BBC-S-East ADC Sum
BBC-S-West ADC Sum

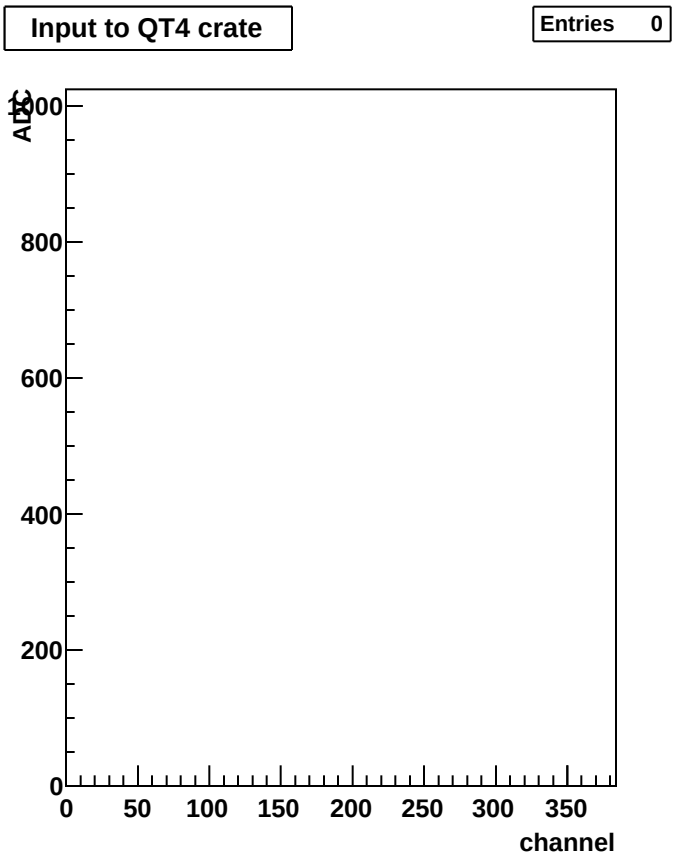

Entries 101080
ZDC East ADC Sum Att
ZDC West ADC Sum Att

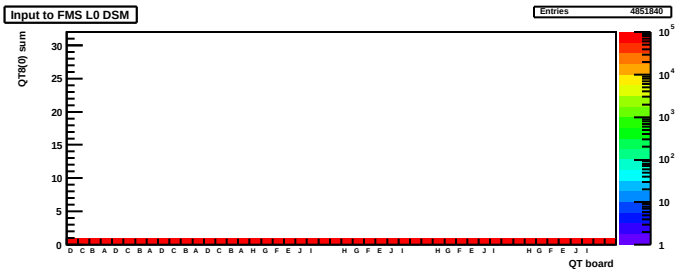

Entries 101080
BBC-L TAC Diff
BCC-S TAC Diff
Entries 101080
BBC-L TAC Diff
VPD TAC Diff
Entries 101080
BBC-L TAC Diff
ZDC TAC Diff
Entries 101080
BBC-S TAC Diff
VPD TAC Diff
Entries 101080
BBC-S TAC Diff
ZDC TAC Diff
Entries 101080
VPD TAC Diff
ZDC TAC Diff

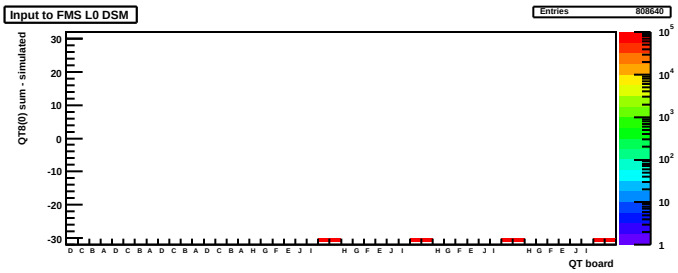

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

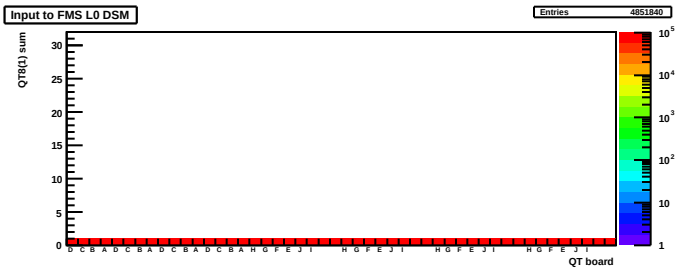

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

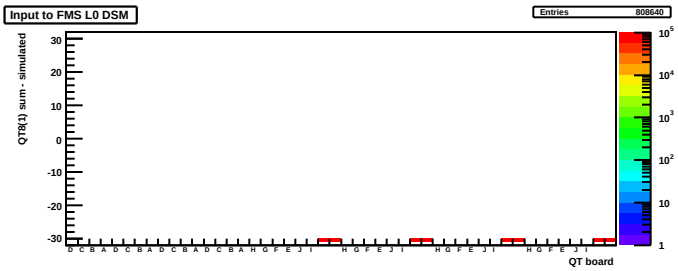

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

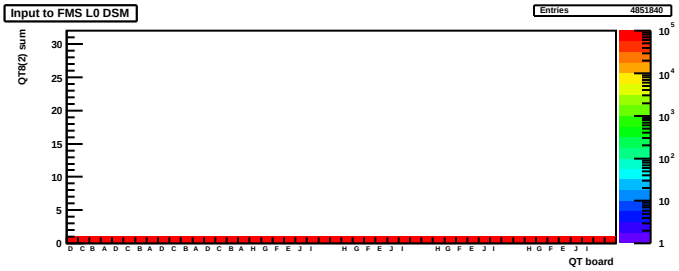

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

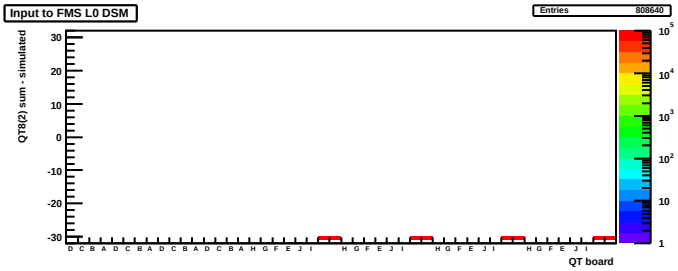

Input to FMS L0 DSM
Entries 4851840
QT8(0) sum
QT board

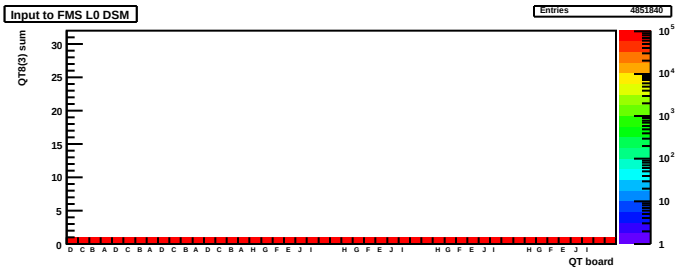

Input to FMS L0 DSM
Entries 808640
QT8(0) sum - simulated
QT board

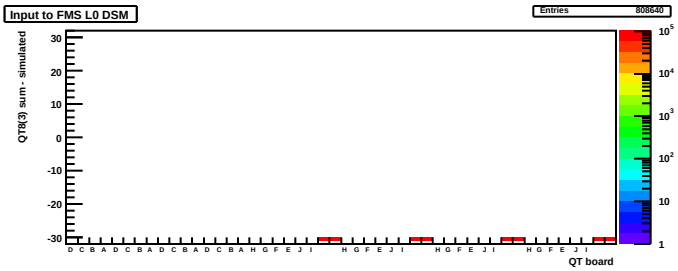

Input to FMS L0 DSM
Entries 4851840
QT8(1) sum
QT board

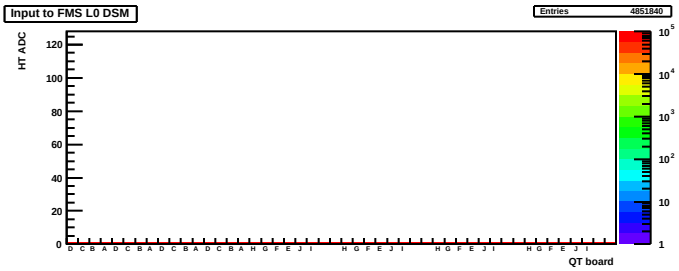

Input to FMS L0 DSM
Entries 808640
QT8(1) sum - simulated
QT board

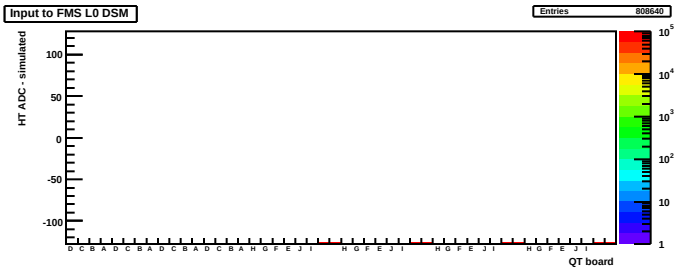

Input to FMS L0 DSM
Entries 4851840
QT8(2) sum
QT board

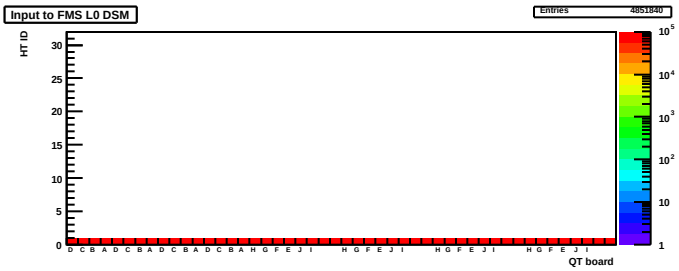

Input to FMS L0 DSM
Entries 808640
QT8(2) sum - simulated
QT board

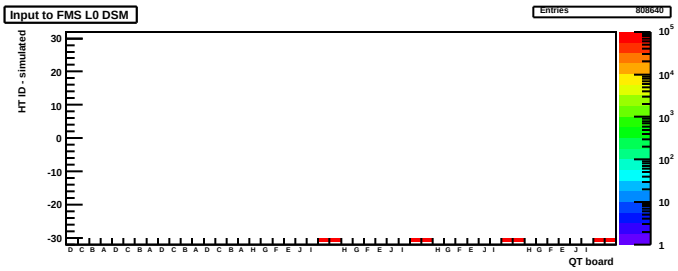

Input to FMS L0 DSM
Entries 4851840
QT8(3) sum
QT board

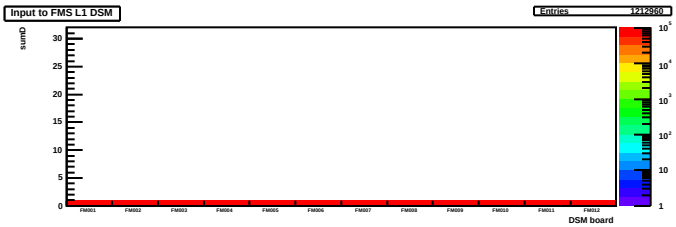

Input to FMS L0 DSM
Entries 808640
QT8(3) sum - simulated
QT board

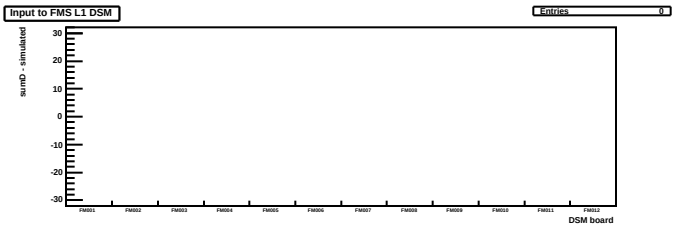

Input to FMS L0 DSM
Entries 4851840
HT ADC
QT board

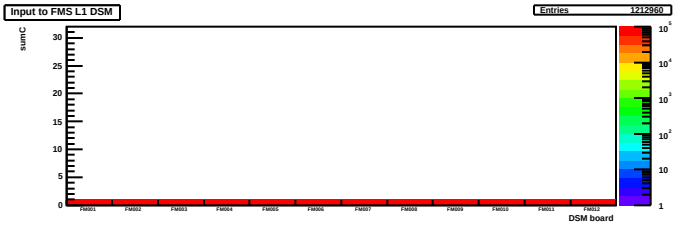

Input to FMS L0 DSM
Entries 808640
HT ADC - simulated
QT board

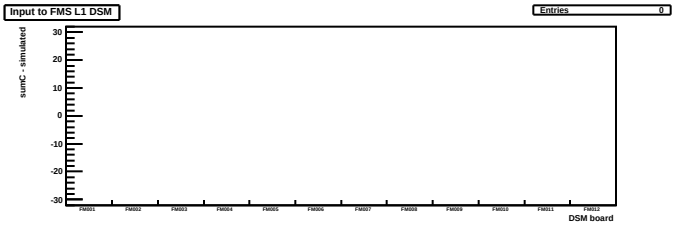

Input to FMS L0 DSM
Entries 4851840
HT ID
QT board

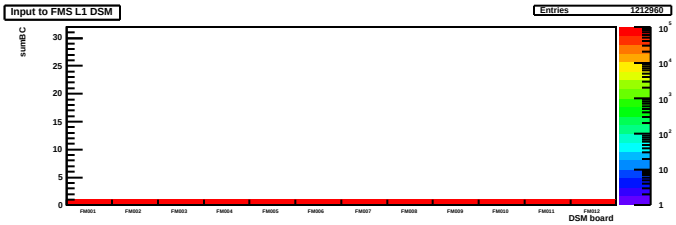

Input to FMS L0 DSM
Entries 808640
HT ID - simulated
QT board

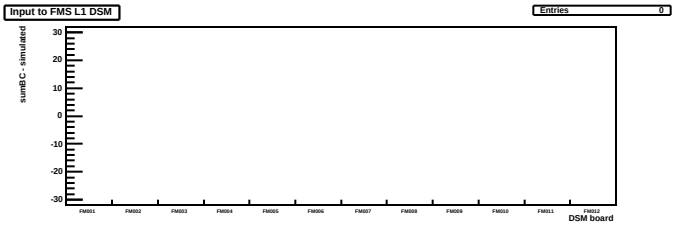

Input to FMS L1 DSM
Entries 1212960
sumD
DSM board

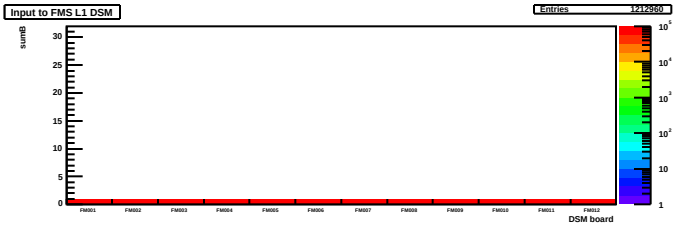

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

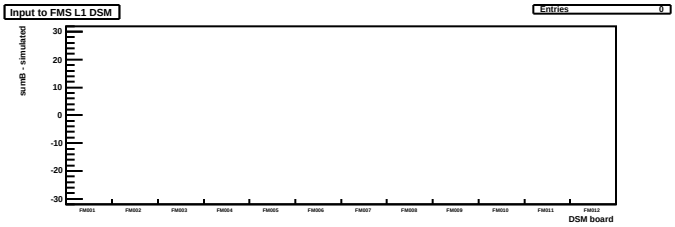

Input to FMS L1 DSM
Entries 1212960
sumC
DSM board

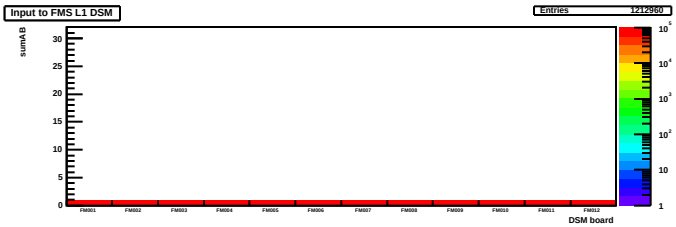

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

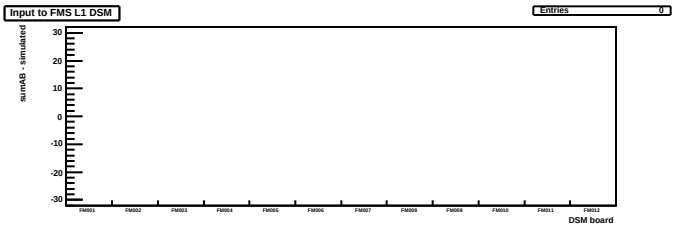

Input to FMS L1 DSM
Entries 1212960
sumBC
DSM board

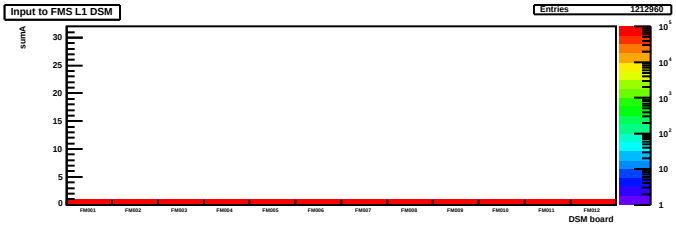

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

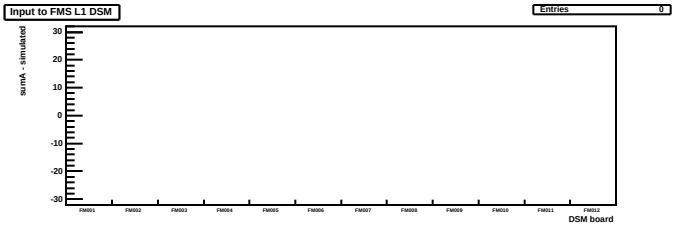

Input to FMS L1 DSM
Entries 1212960
sumB
DSM board

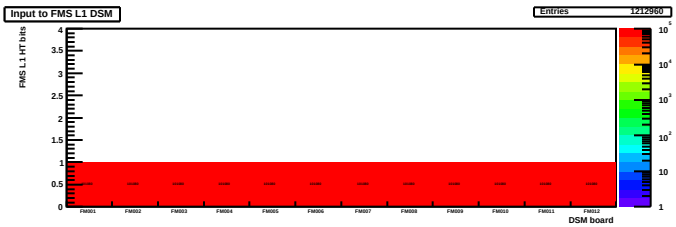

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

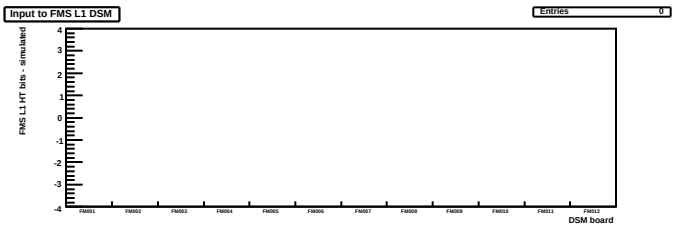

Input to FMS L1 DSM
Entries 1212960
sumAB
DSM board

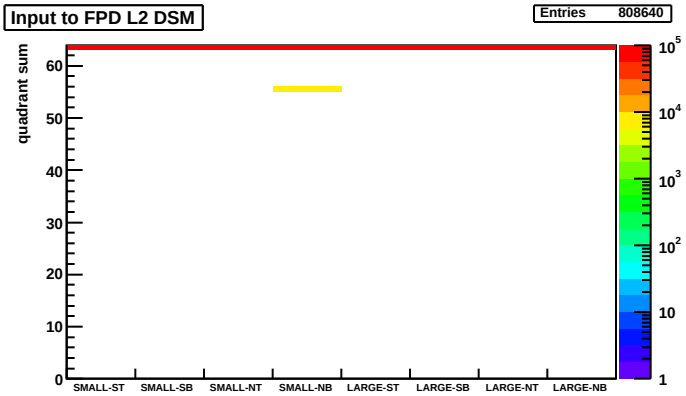

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

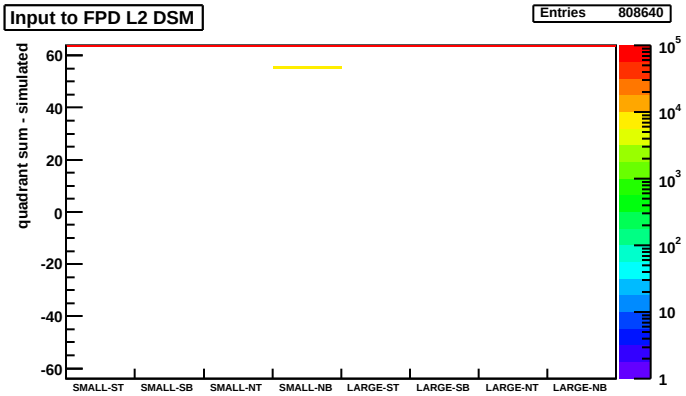

Input to FMS L1 DSM
Entries 1212960
sumA
DSM board

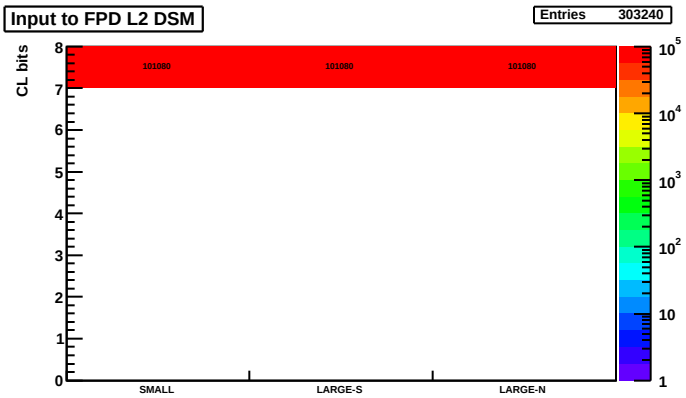

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

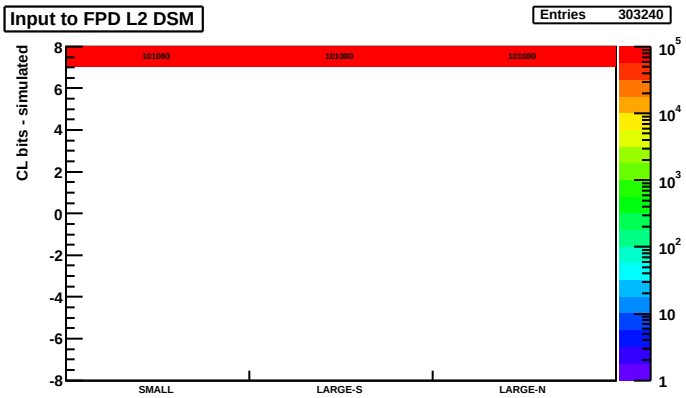

Input to FMS L1 DSM
Entries 1212960
FMS L1 HT bits
DSM board

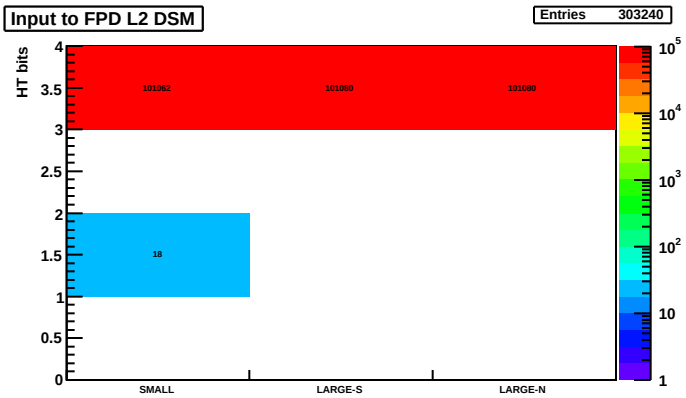

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

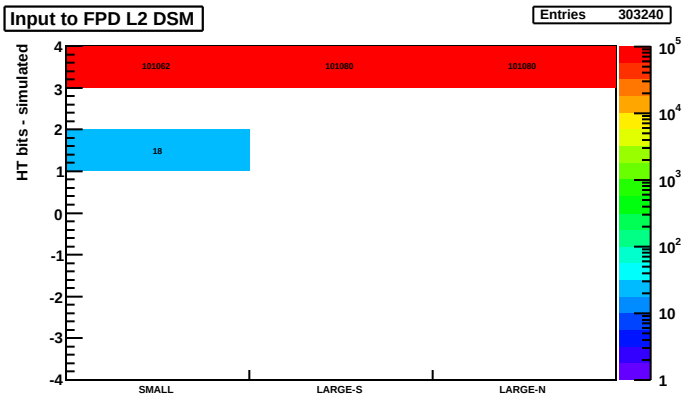

Input to FPD L2 DSM
Entries 808640
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

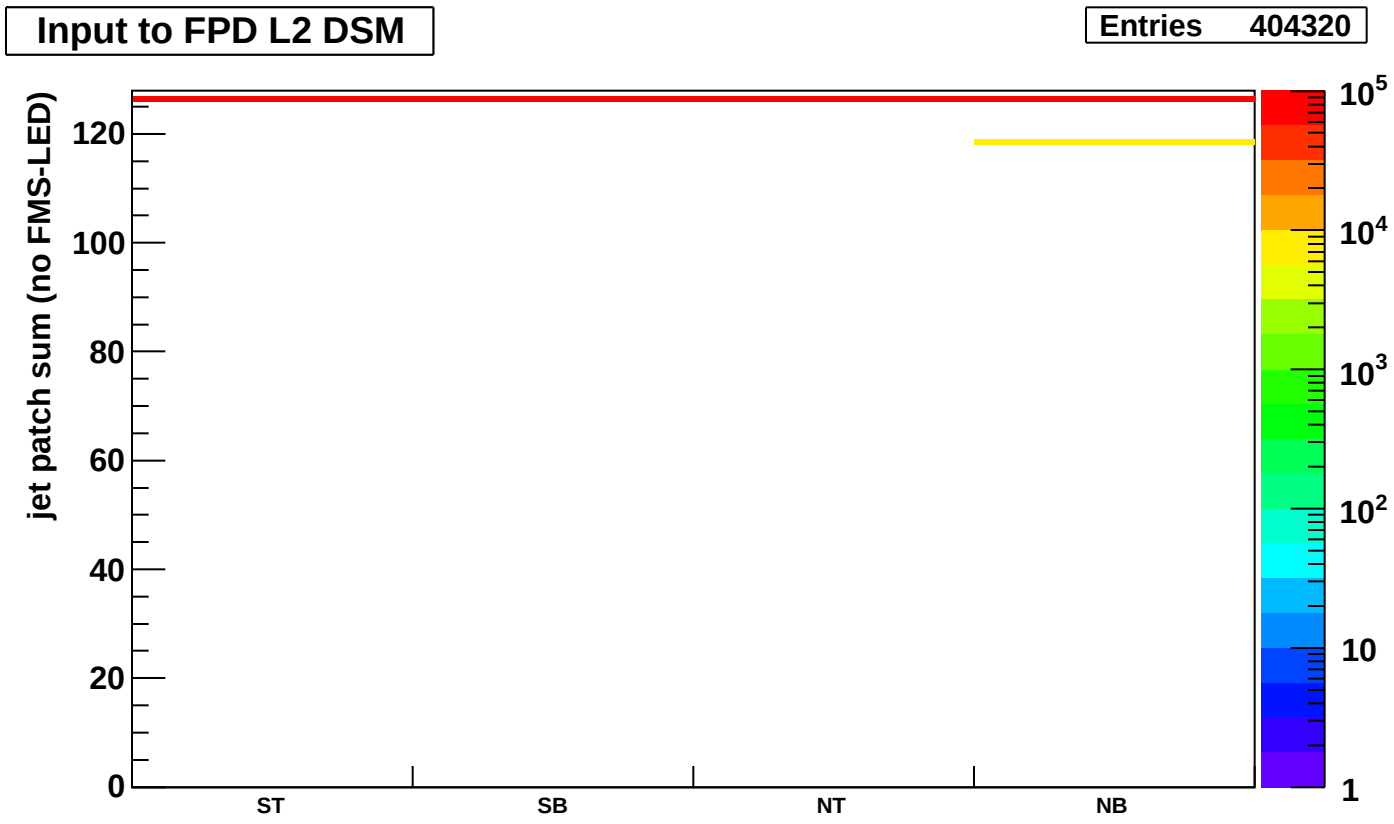

Input to FPD L2 DSM
Entries 808640
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

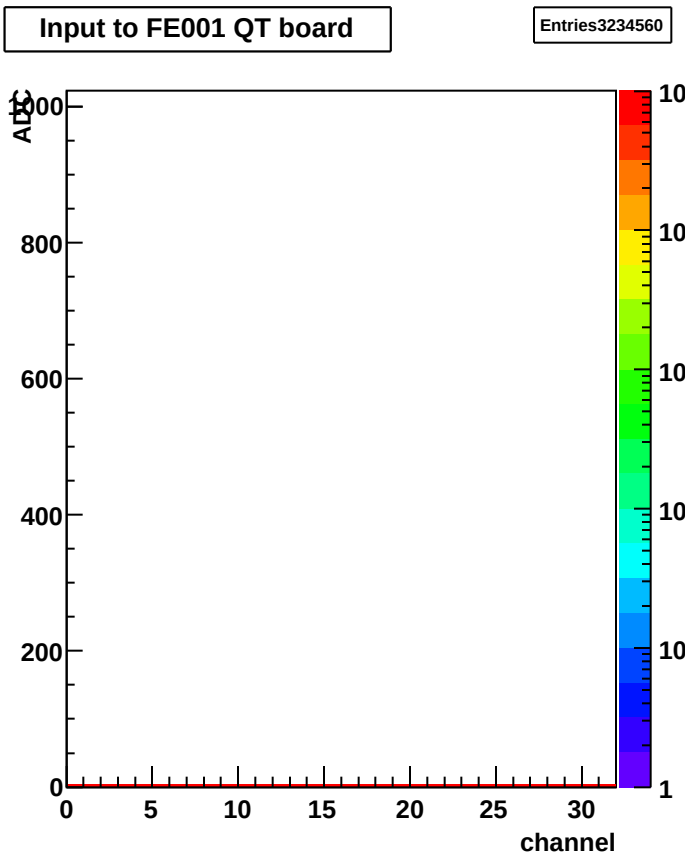

Input to FPD L2 DSM
Entries 303240
CL bits
101080 101080 101080
SMALL LARGE-S LARGE-N

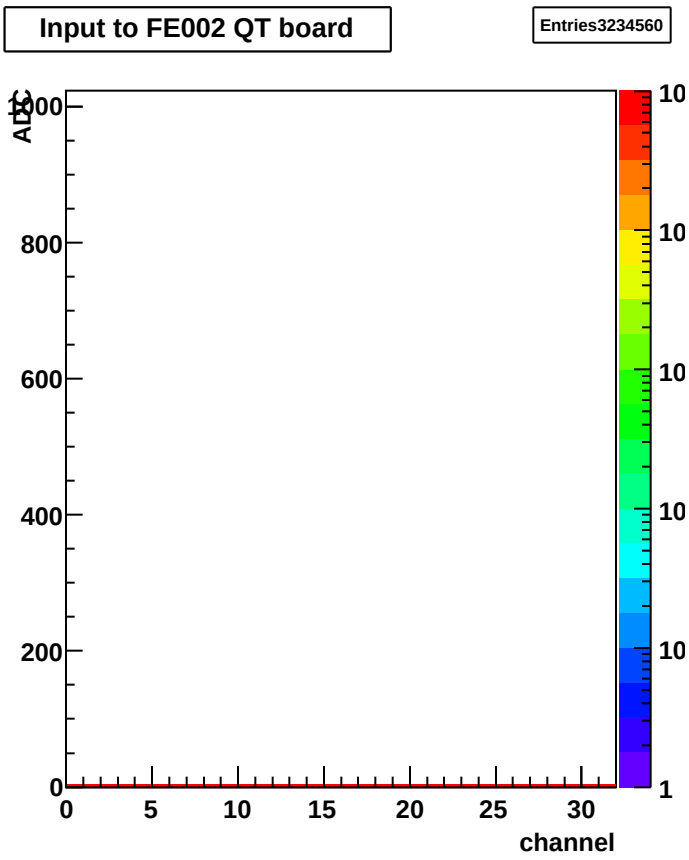

Input to FPD L2 DSM
Entries 303240
CL bits - simulated
101080 101080 101080
SMALL LARGE-S LARGE-N

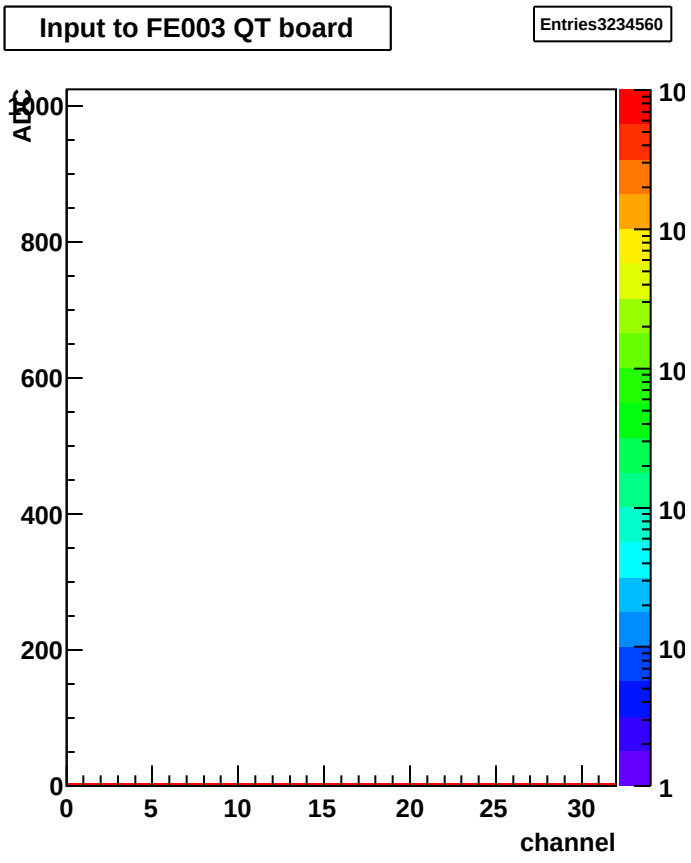

Input to FPD L2 DSM
Entries 303240
HT bits
101062 101080 101080
18
SMALL LARGE-S LARGE-N

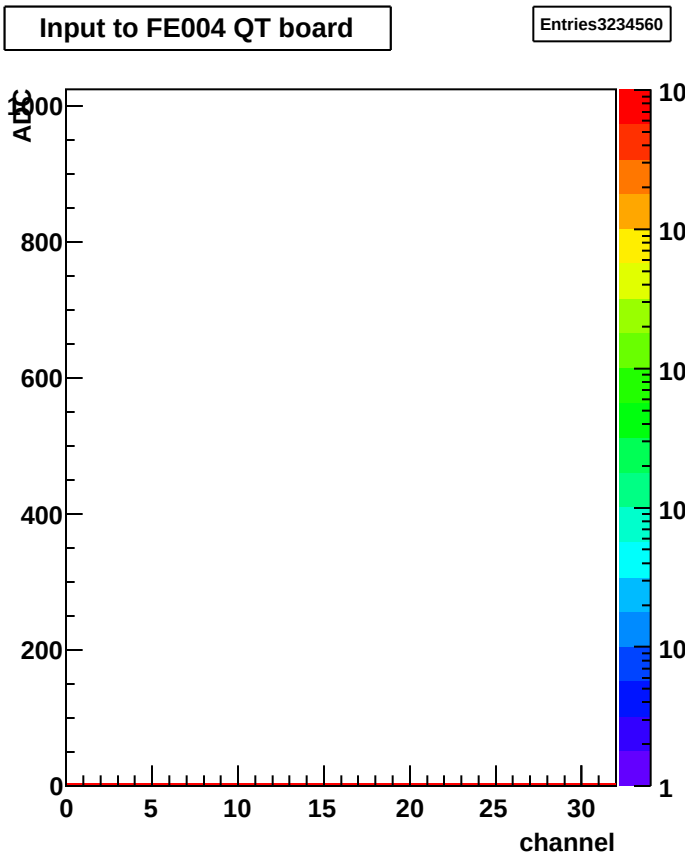

Input to FPD L2 DSM
Entries 303240
HT bits - simulated
101062 101080 101080
18
SMALL LARGE-S LARGE-N

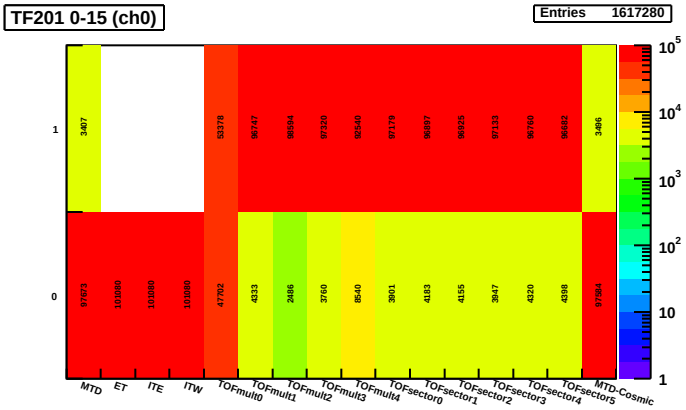

Input to FPD L2 DSM
Entries 404320
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

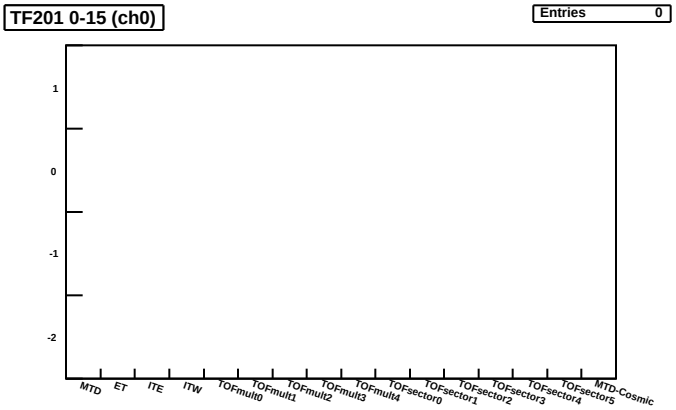

Input to FE001 QT board
Entries3234560
ADC
channel

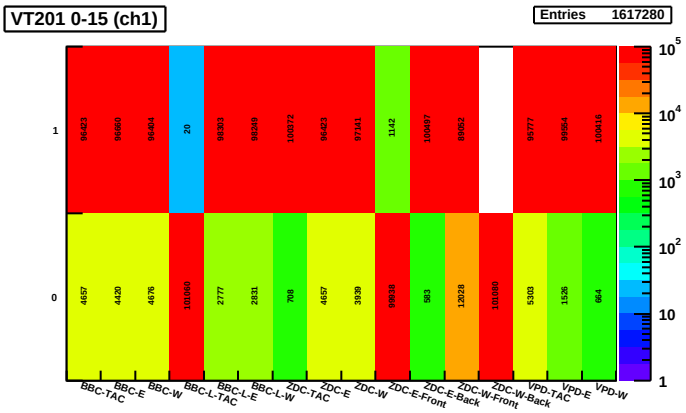

Input to FE002 QT board
Entries3234560
ADC
channel

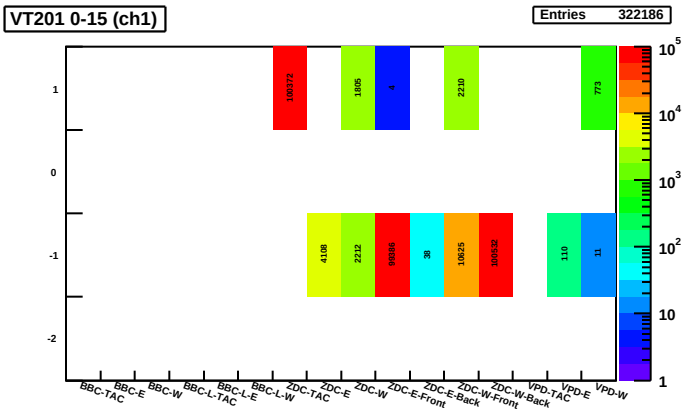

Input to FE003 QT board
Entries3234560
ADC
channel

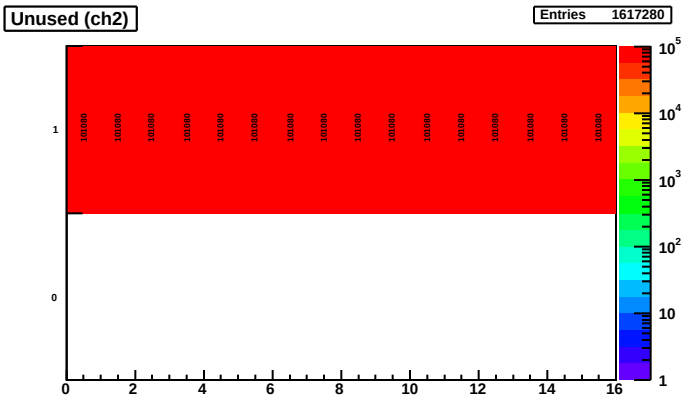

Input to FE004 QT board
Entries3234560
ADC
channel

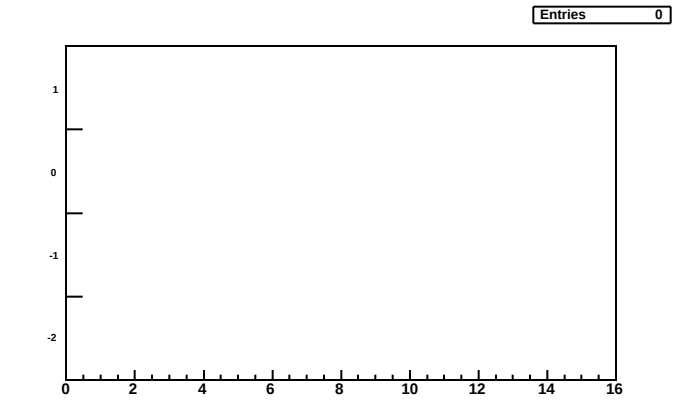

TF201 0-15 (ch0)
Entries 1617280
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

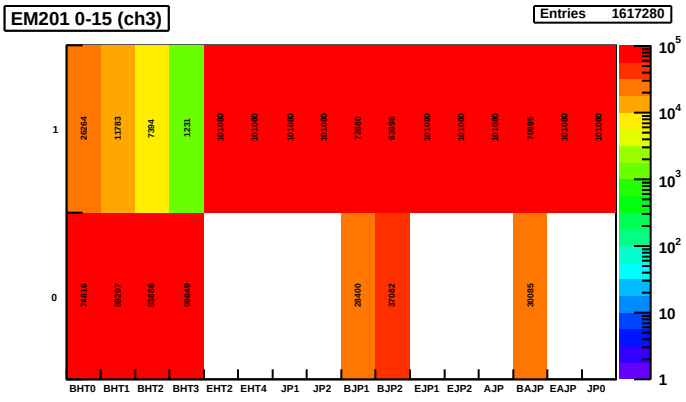

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

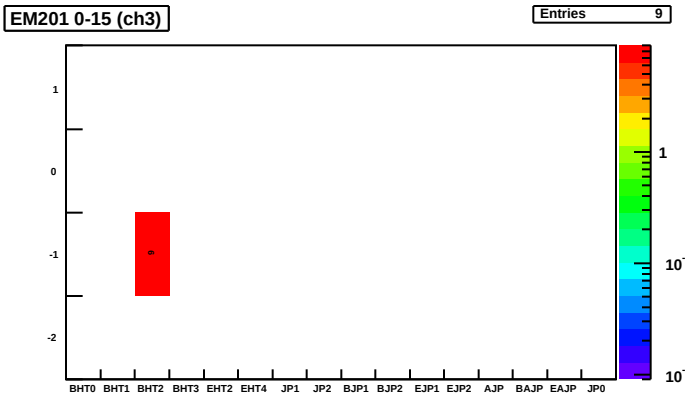

VT201 0-15 (ch1)
Entries 1617280
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

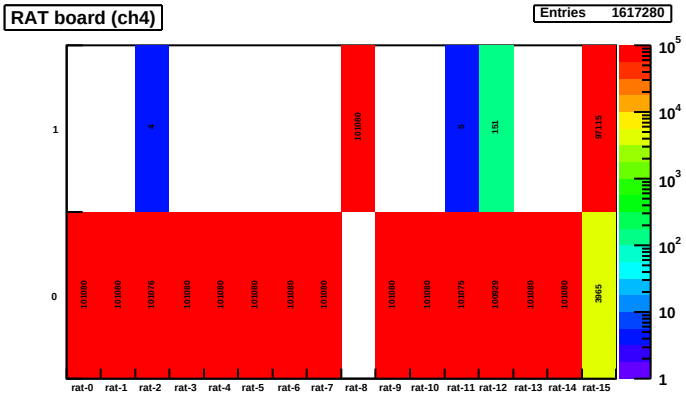

VT201 0-15 (ch1)
Entries 322186
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

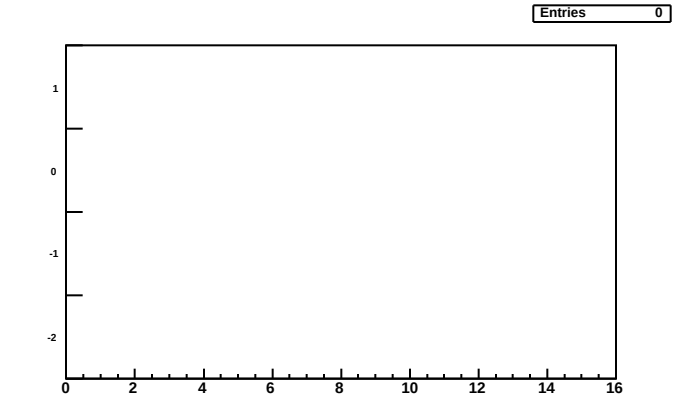

Unused (ch2)
Entries 1617280

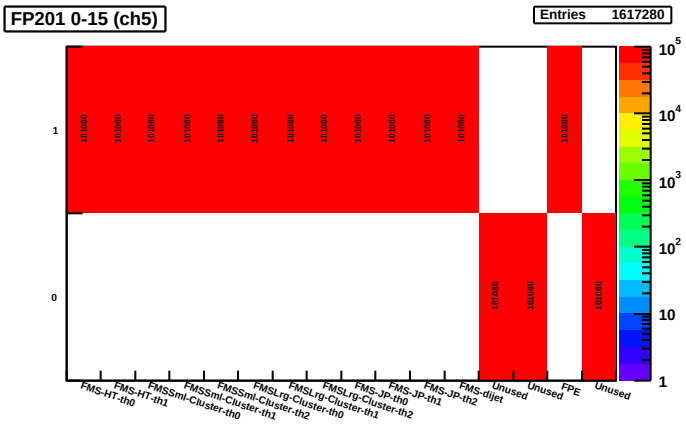

Entries 0

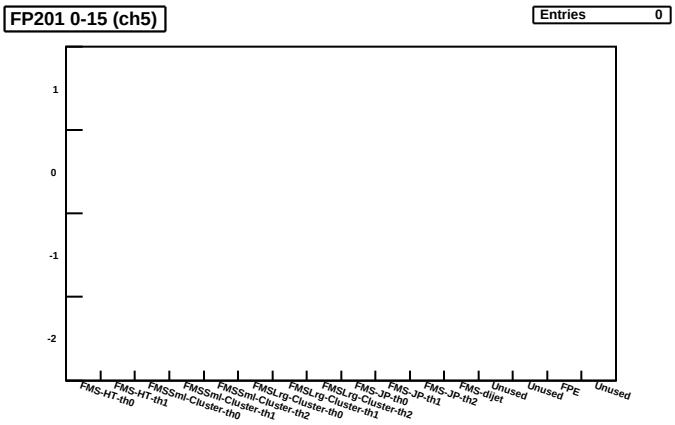

EM201 0-15 (ch3)
Entries 1617280
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

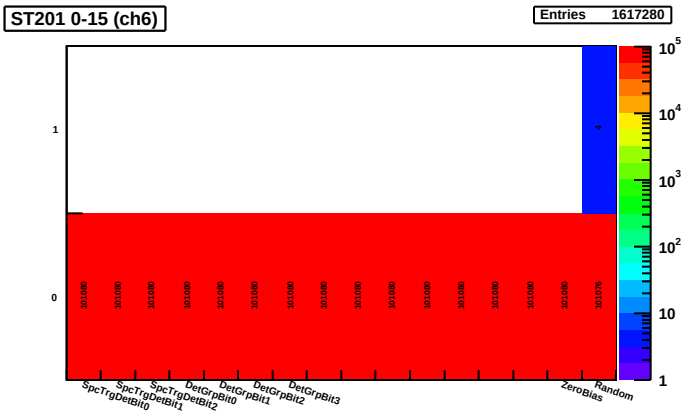

EM201 0-15 (ch3)
Entries 9
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

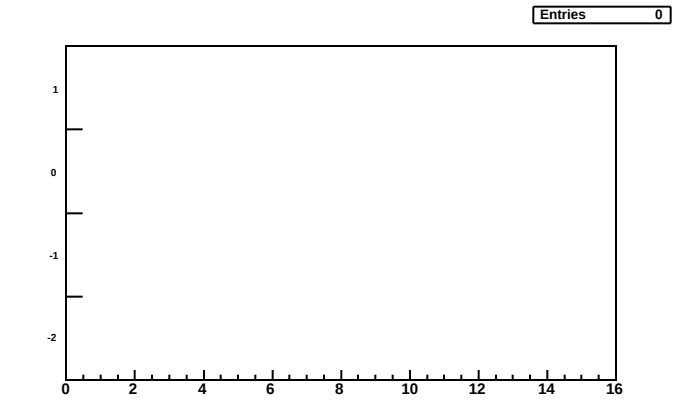

RAT board (ch4)
Entries 1617280
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

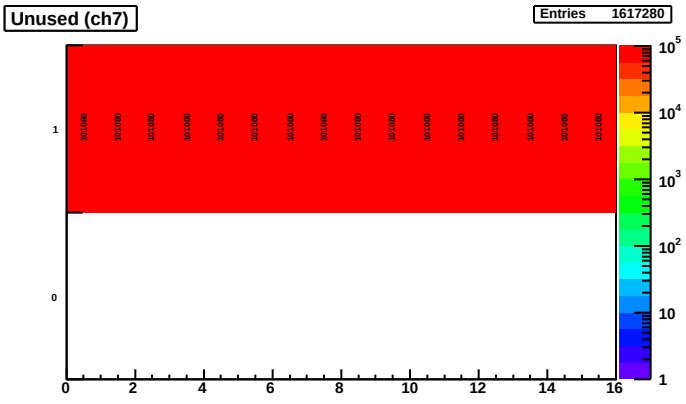

Entries 0

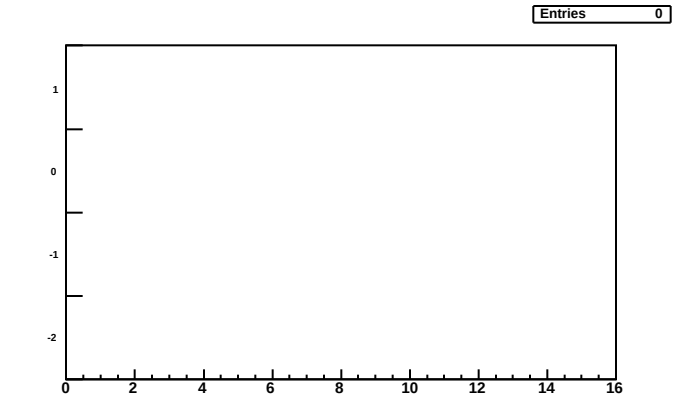

FP201 0-15 (ch5)
Entries 1617280
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 FMSSml-Cluster-th2 FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-diJet Unused Unused FPE Unused


FP201 0-15 (ch5)
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 1617280
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random


Entries 0


Unused (ch7)
Entries 1617280


Entries 0