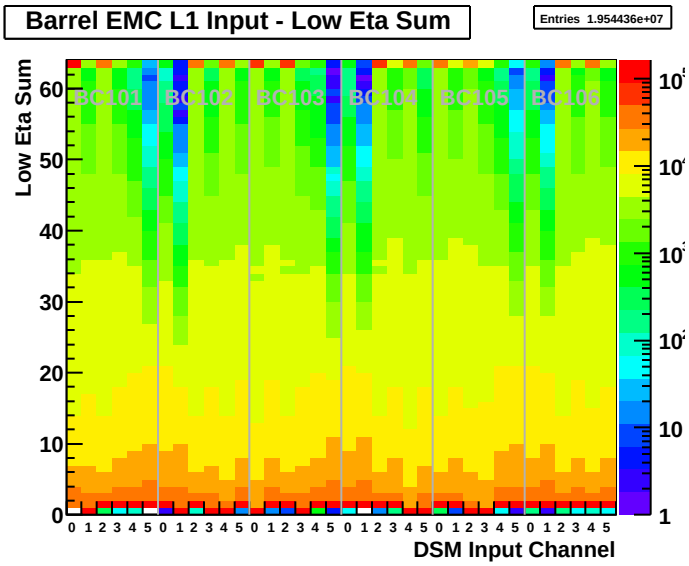
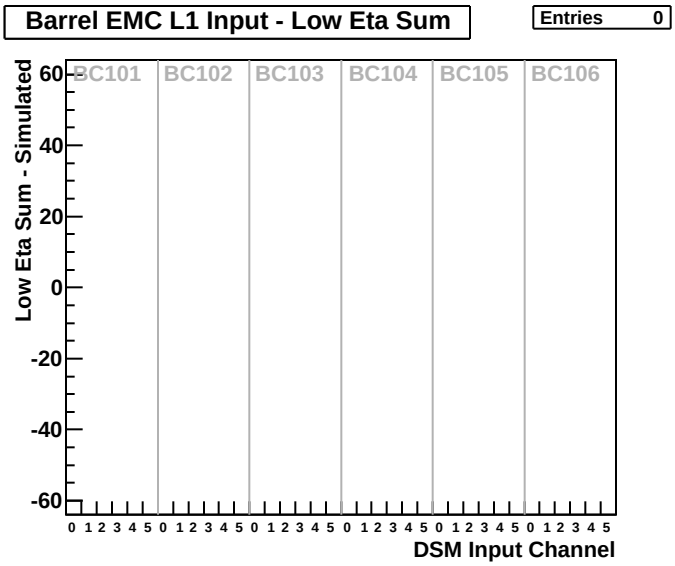
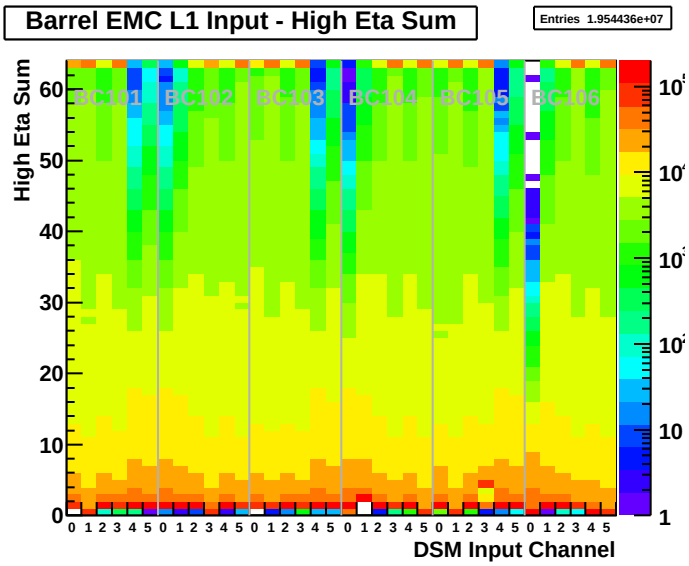
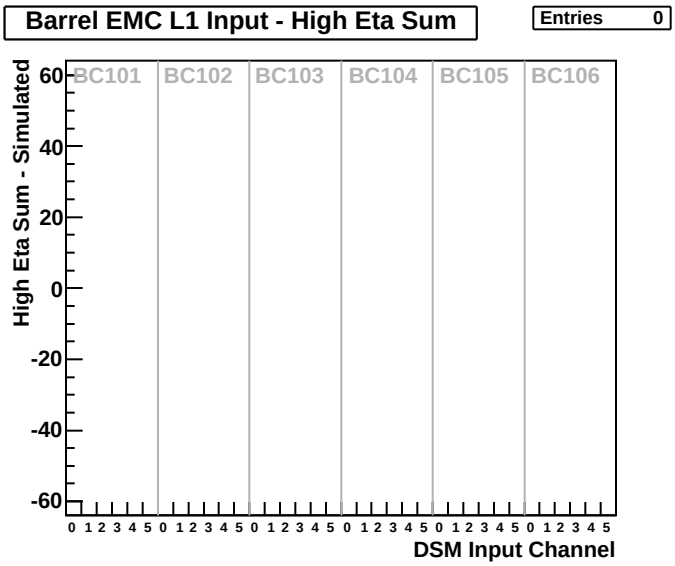
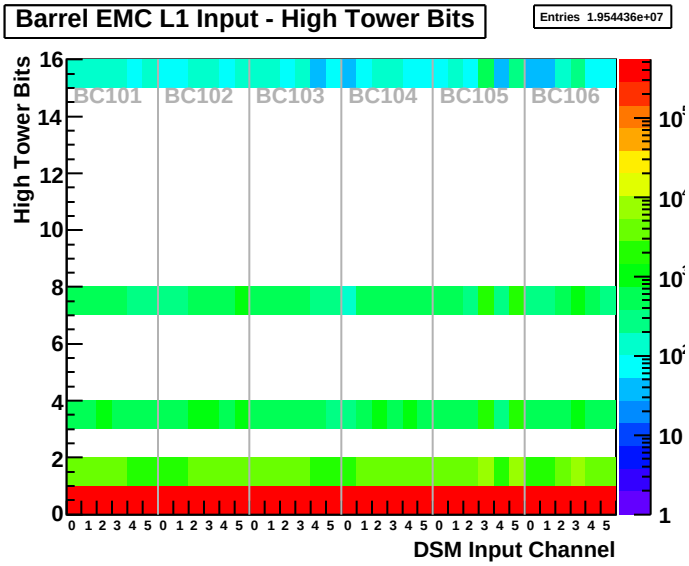
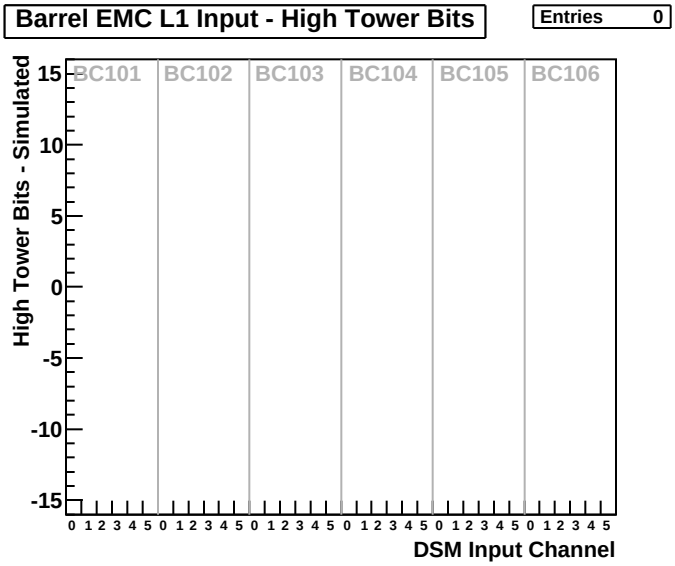

Barrel EMC L1 Input - Low Eta Sum
Entries 1.954436e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

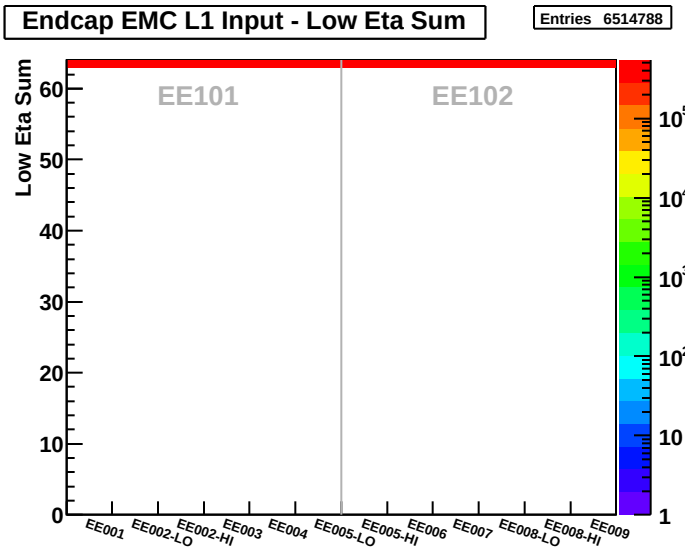

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

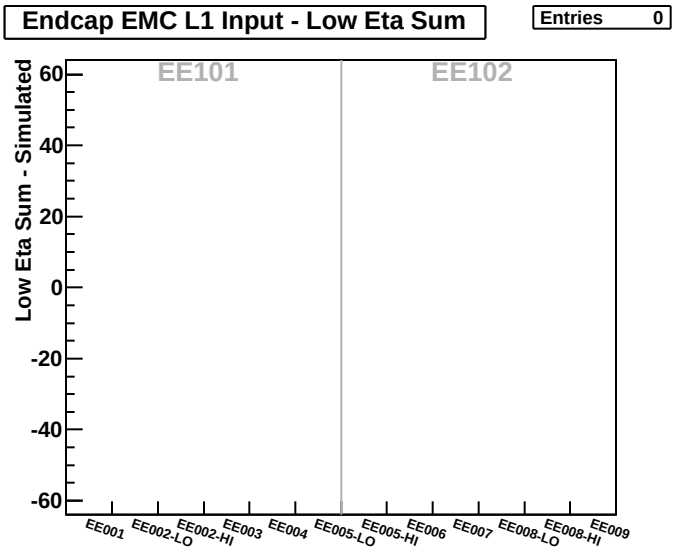

Barrel EMC L1 Input - High Eta Sum
Entries 1.954436e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

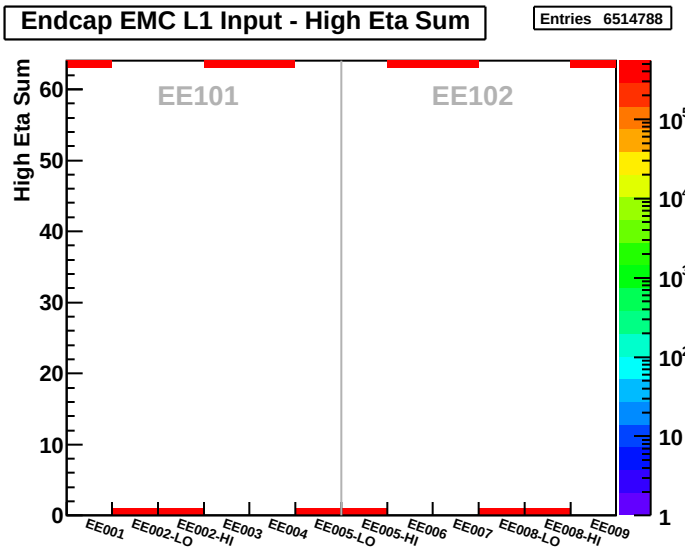

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

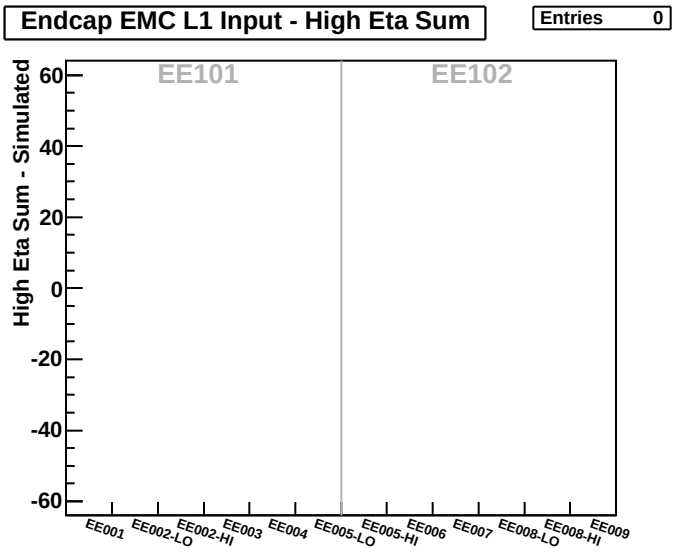

Barrel EMC L1 Input - High Tower Bits
Entries 1.954436e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

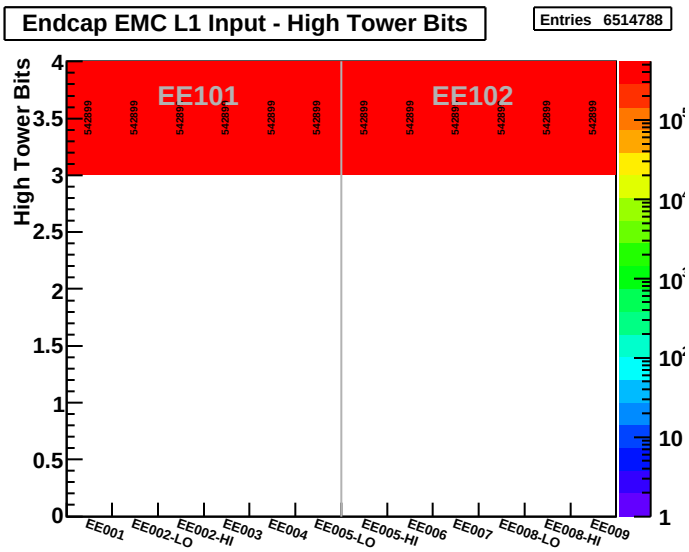

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

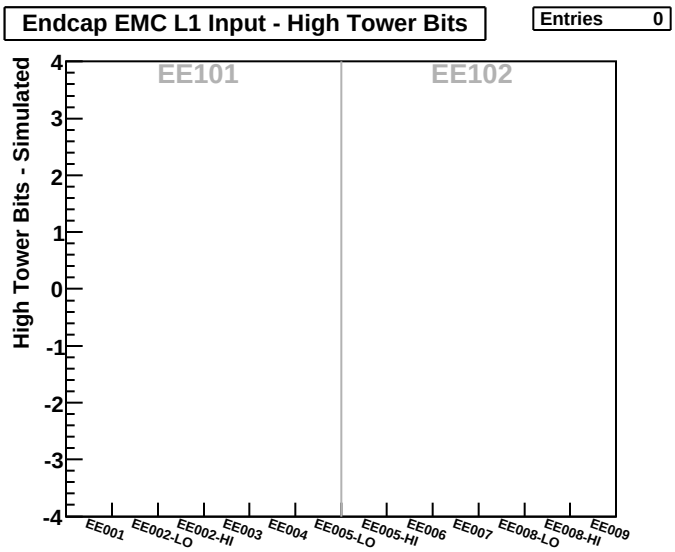

Endcap EMC L1 Input - Low Eta Sum
Entries 6514788
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

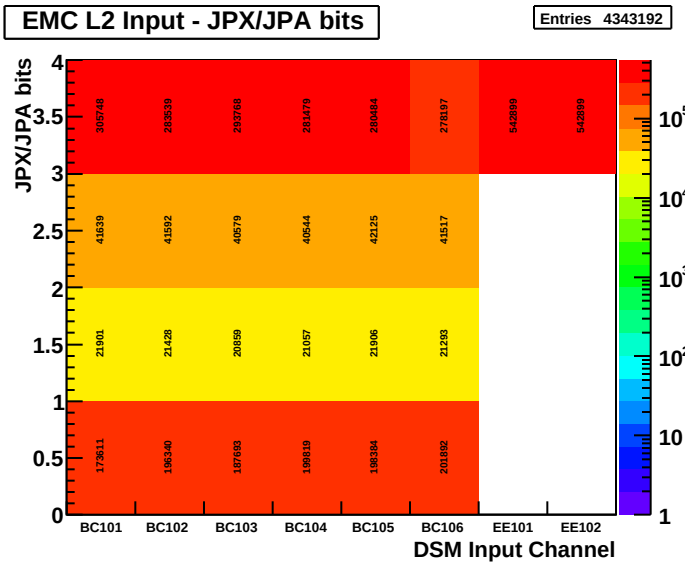

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

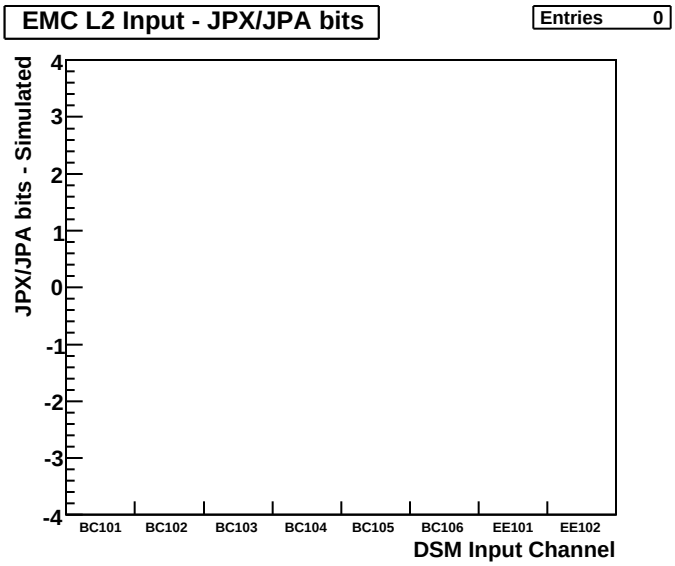

Endcap EMC L1 Input - High Eta Sum
Entries 6514788
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

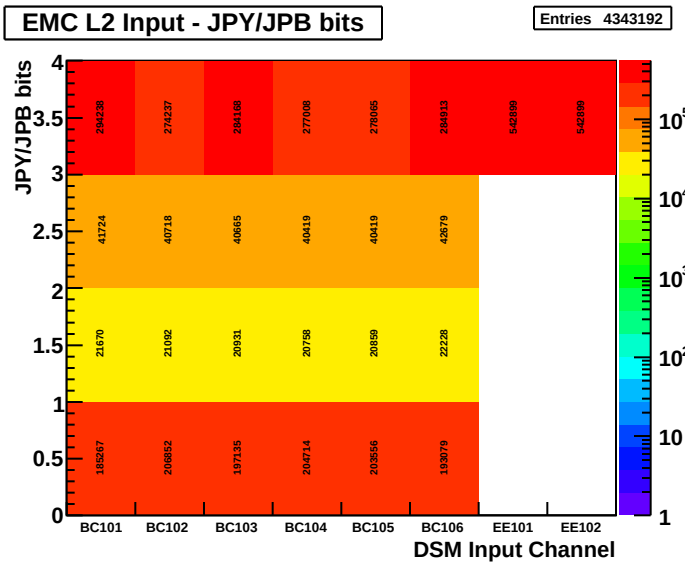

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

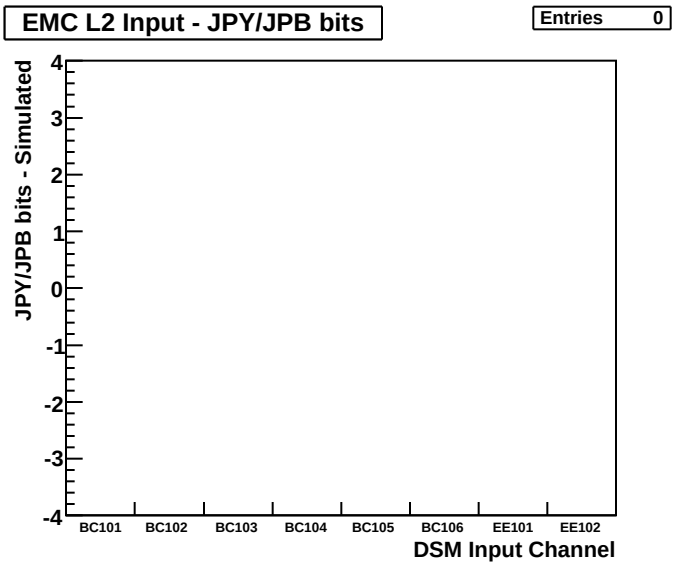

Endcap EMC L1 Input - High Tower Bits
Entries 6514788
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

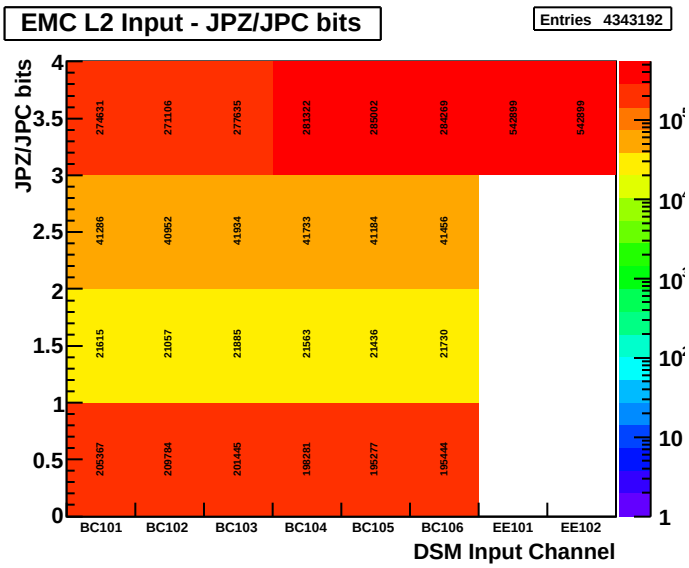

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

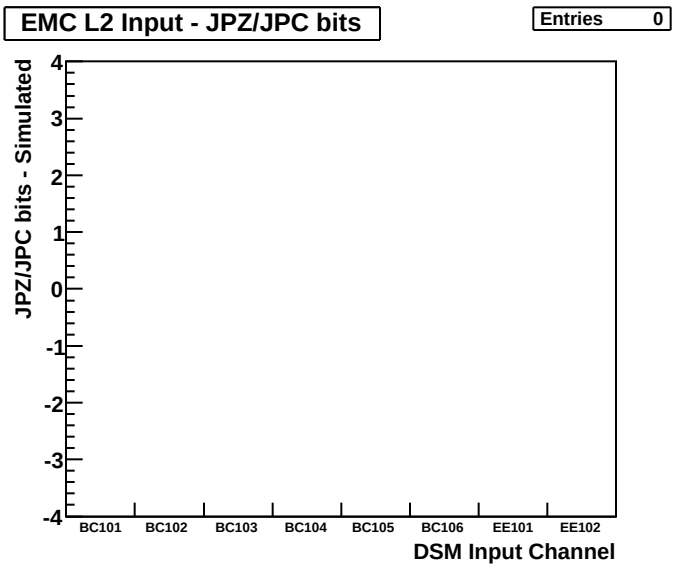

EMC L2 Input - JPX/JPA bits
Entries 4343192
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
305748 283839 293768 281479 280484 278197 542899 542899
41639 41592 40579 40544 42125 41517
21901 21428 20859 21057 21906 21293
173611 196340 187693 198819 198384 201892

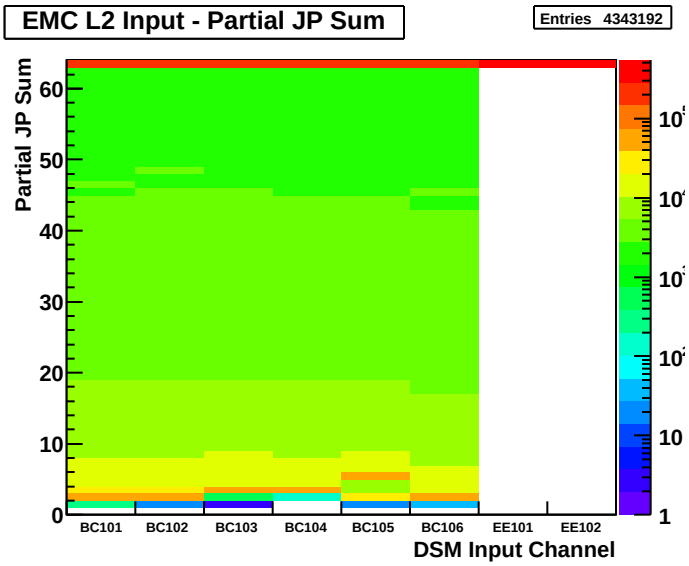

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

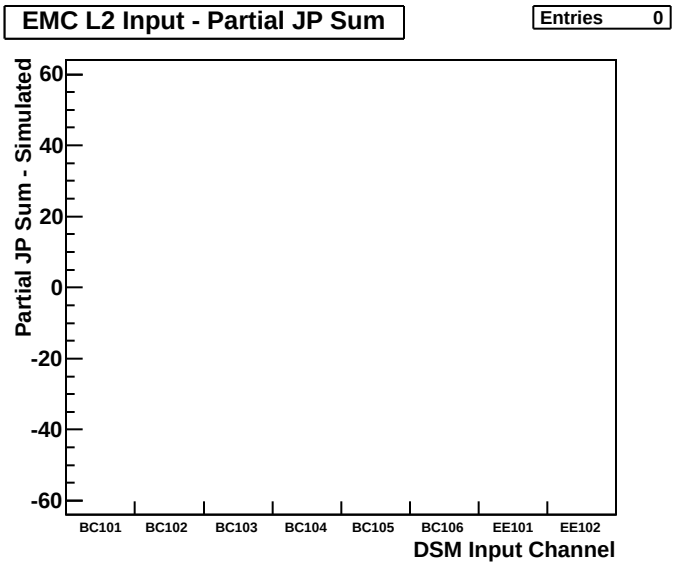

EMC L2 Input - JPY/JPB bits
Entries 4343192
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
284238 274237 284168 277008 278065 284913 542899 542899
41724 40718 40665 40419 40419 42679
21670 21092 20931 20758 20859 22228
188267 206852 197135 204714 203556 193079

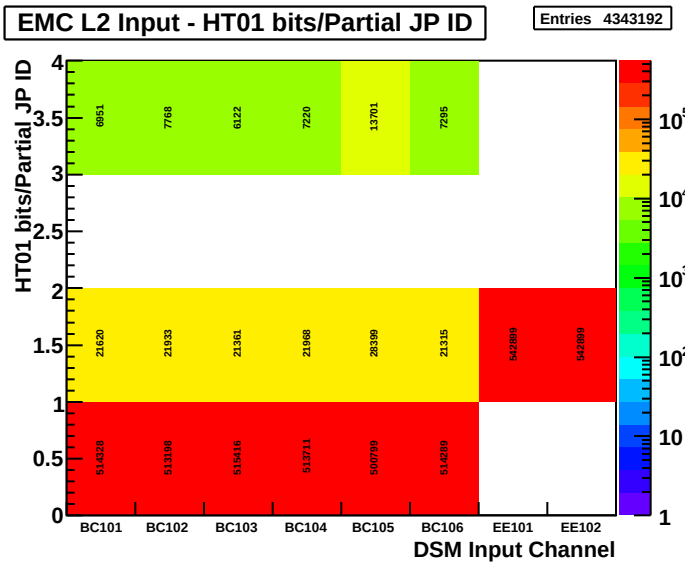

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

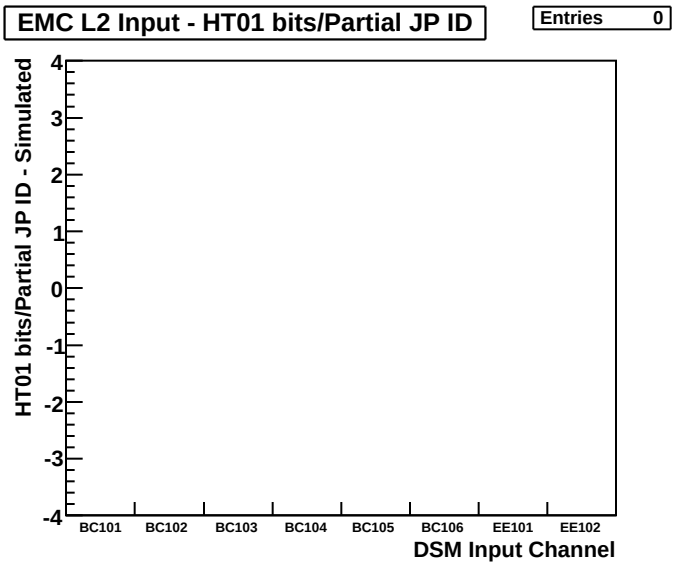

EMC L2 Input - JPZ/JPC bits
Entries 4343192
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
274631 271106 277635 283322 285002 284269 542899 542899
41286 40952 41934 41733 41184 41456
21615 21057 21885 21563 21436 21730
205367 209784 201446 198281 195277 195444

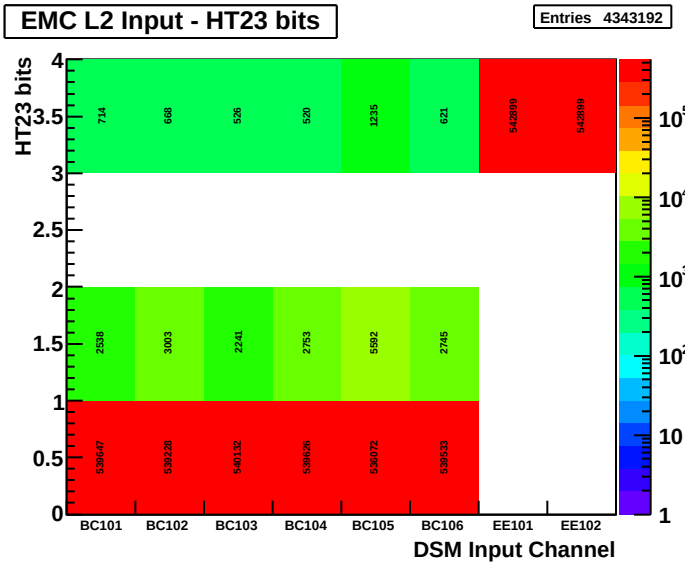

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

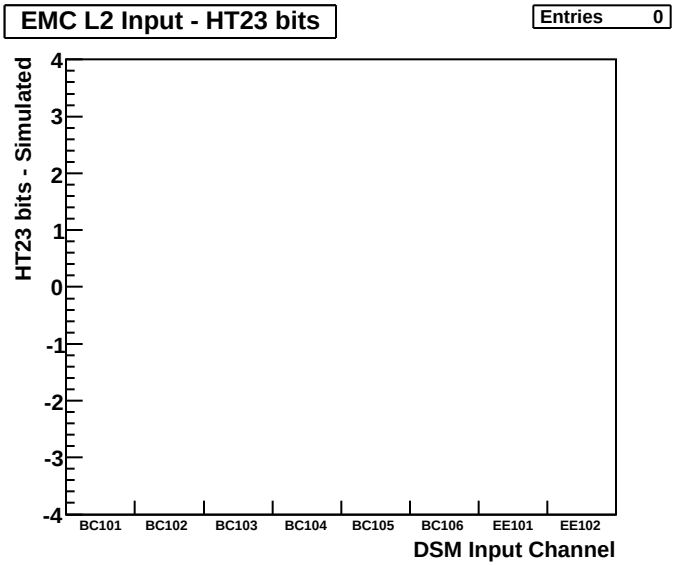

EMC L2 Input - Partial JP Sum
Entries 4343192
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

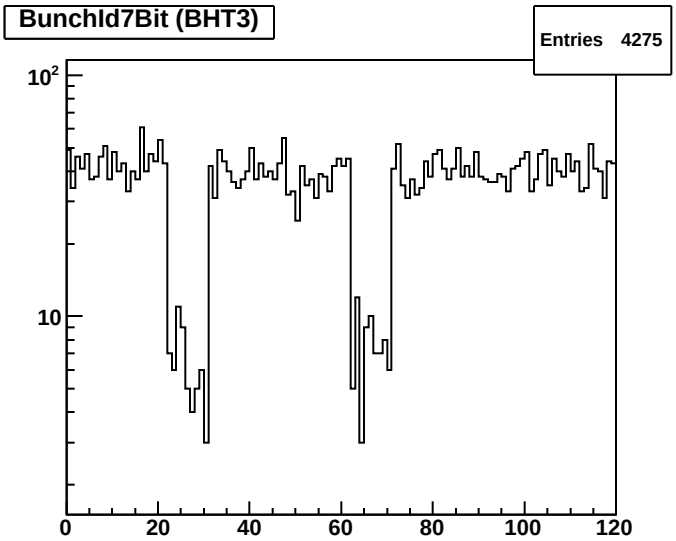

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

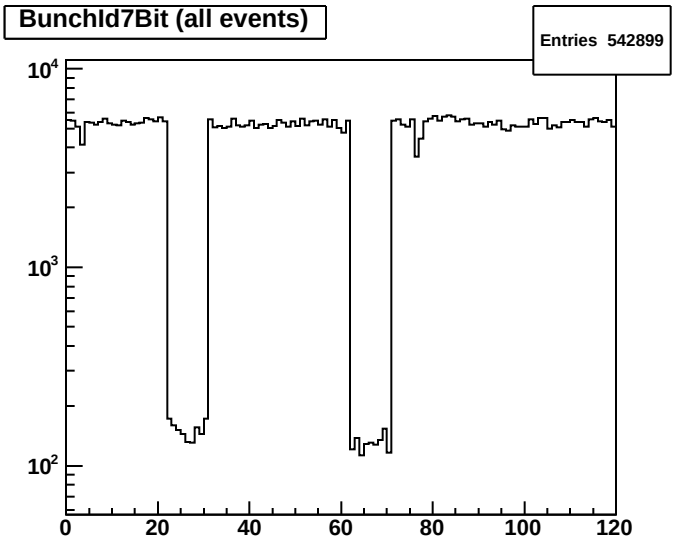

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4343192
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

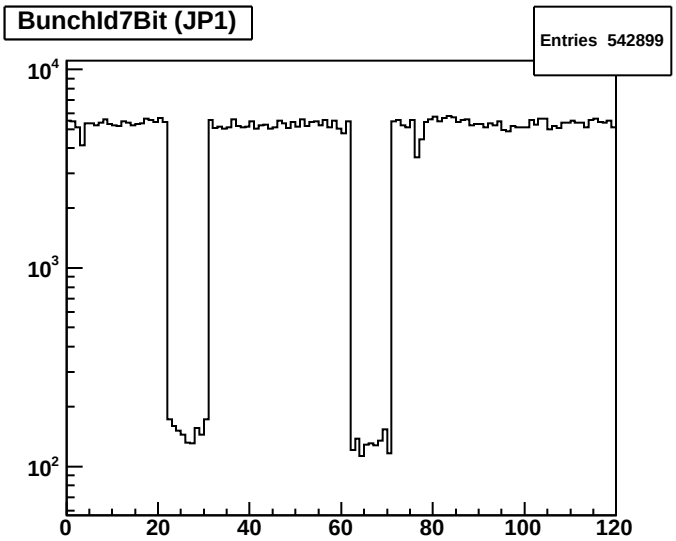

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

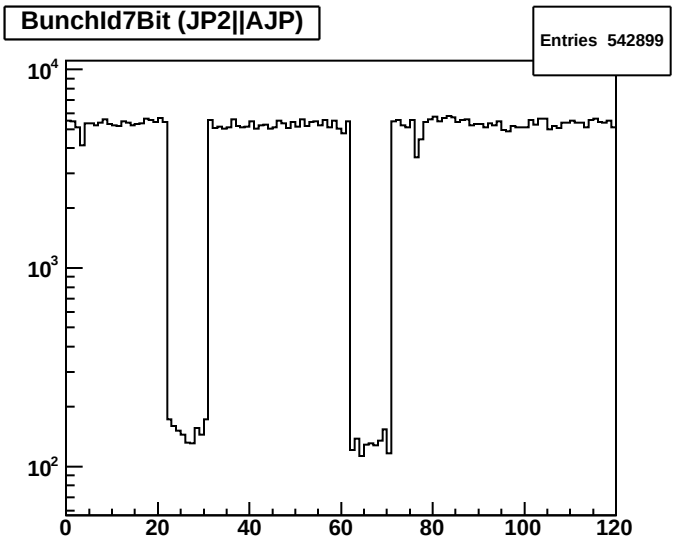

EMC L2 Input - HT23 bits
Entries 4343192
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

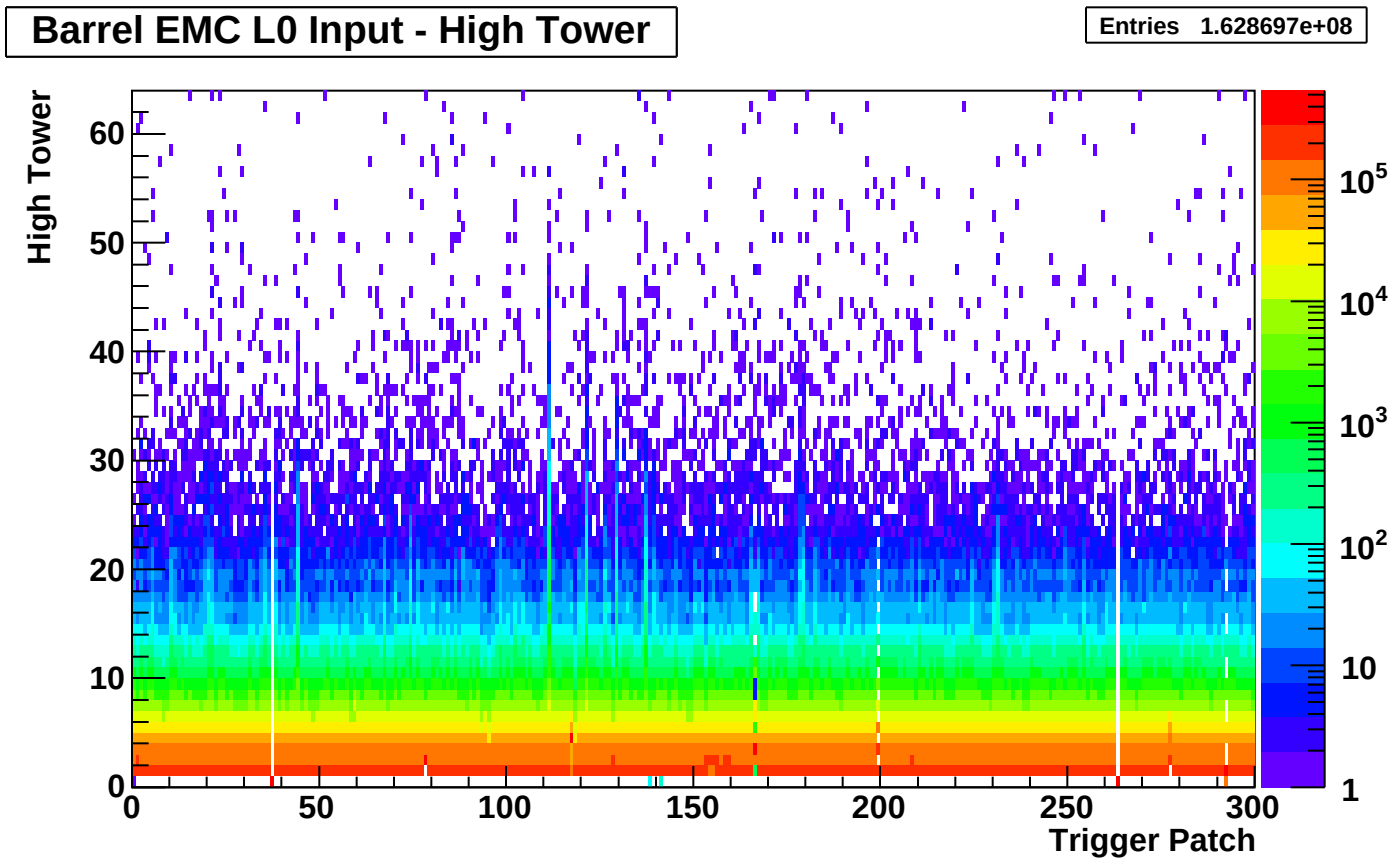

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

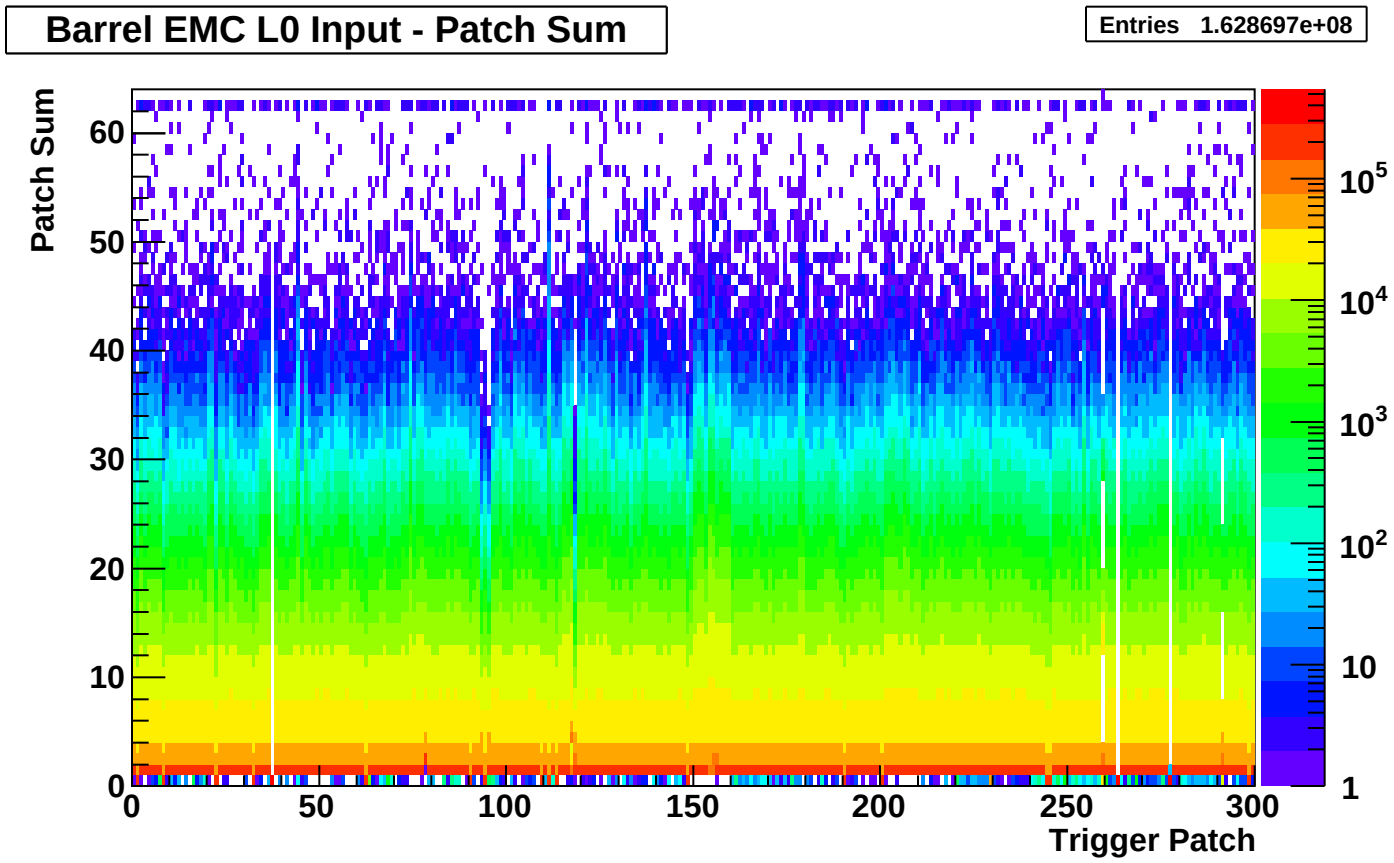

BunchId7Bit (BHT3)
Entries 4275
10^2
10
0
20
40
60
80
100
120

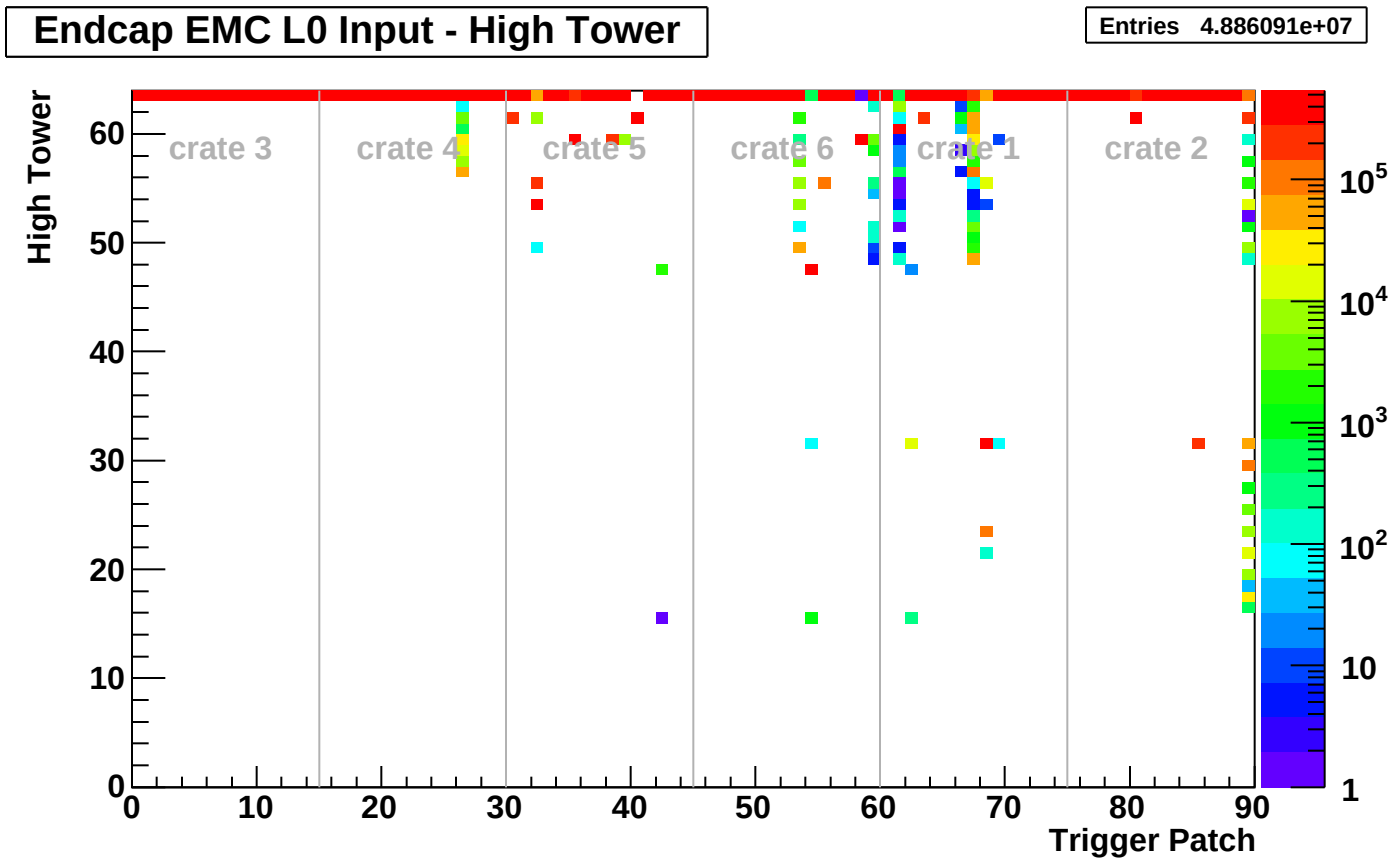

BunchId7Bit (all events)
Entries 542899
10^4
10^3
10^2
0
20
40
60
80
100
120

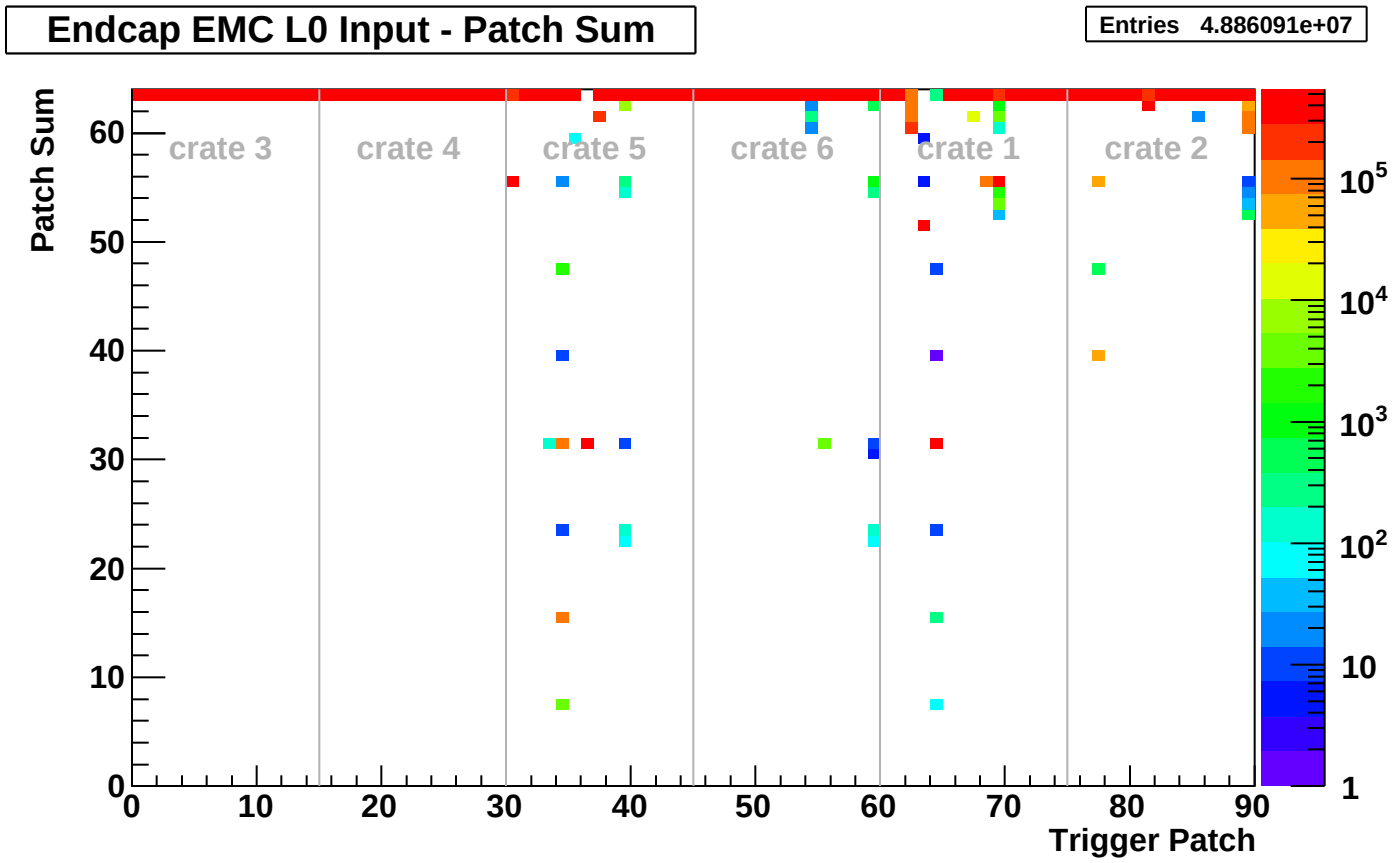

BunchId7Bit (JP1)
Entries 542899
10^4
10^3
10^2
0
20
40
60
80
100
120

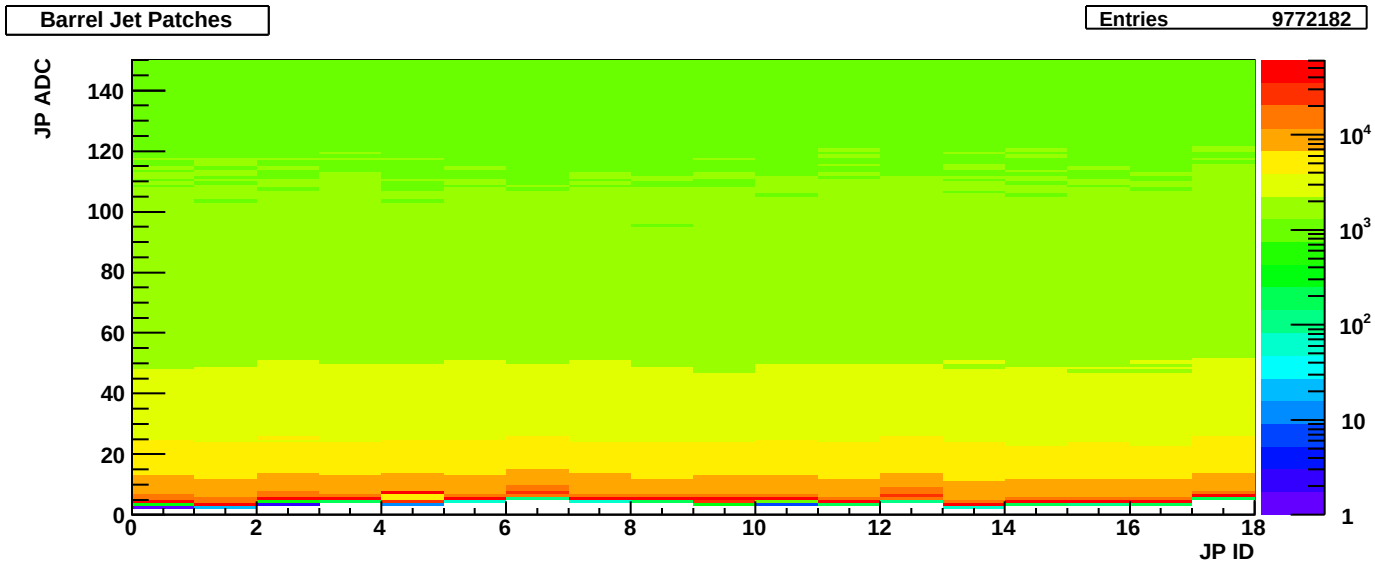

BunchId7Bit (JP2||AJP)
Entries 542899
10^4
10^3
10^2
0
20
40
60
80
100
120

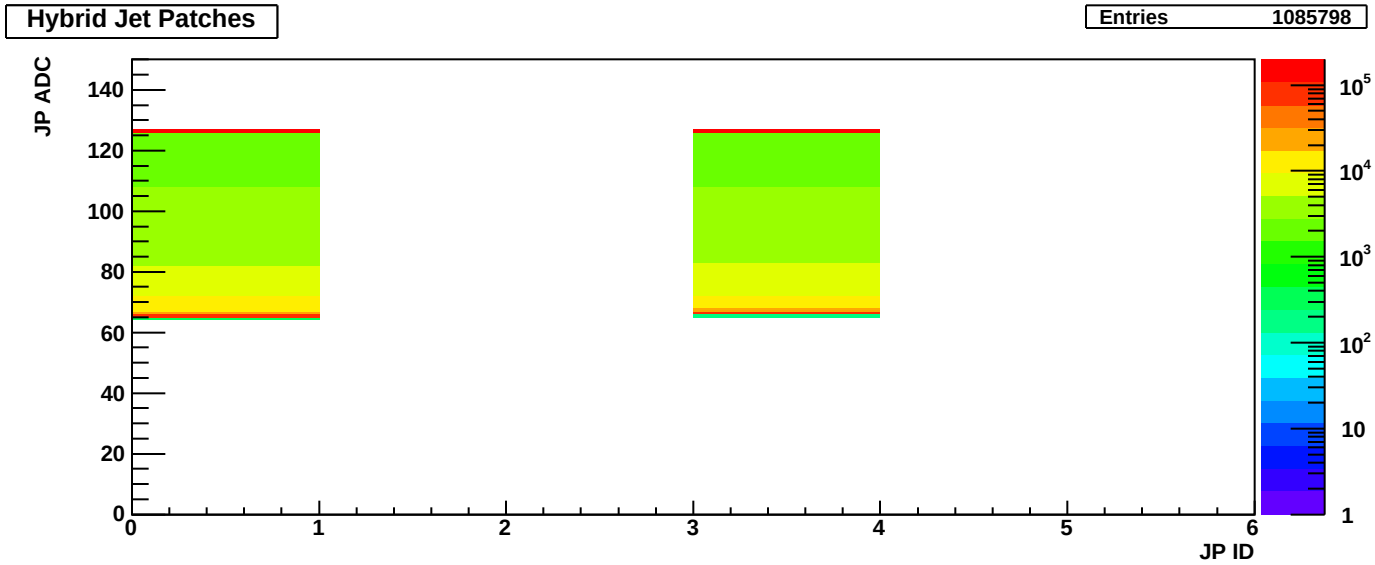

Barrel EMC L0 Input - High Tower
Entries 1.628697e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

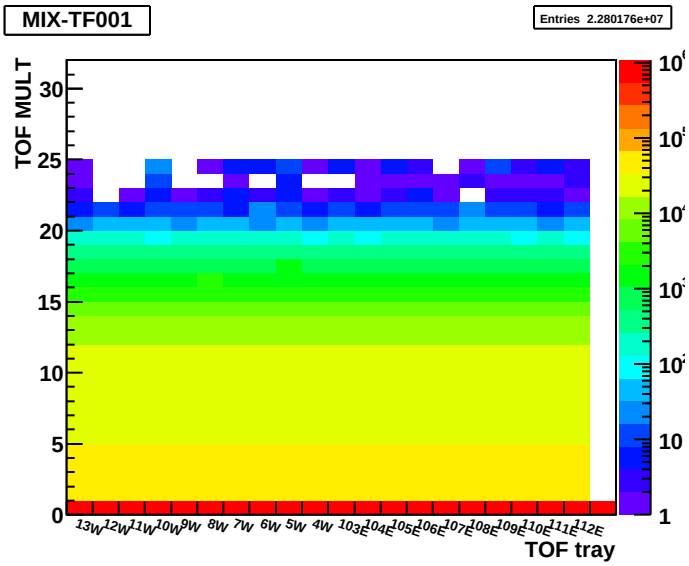

Barrel EMC L0 Input - Patch Sum
Entries 1.628697e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

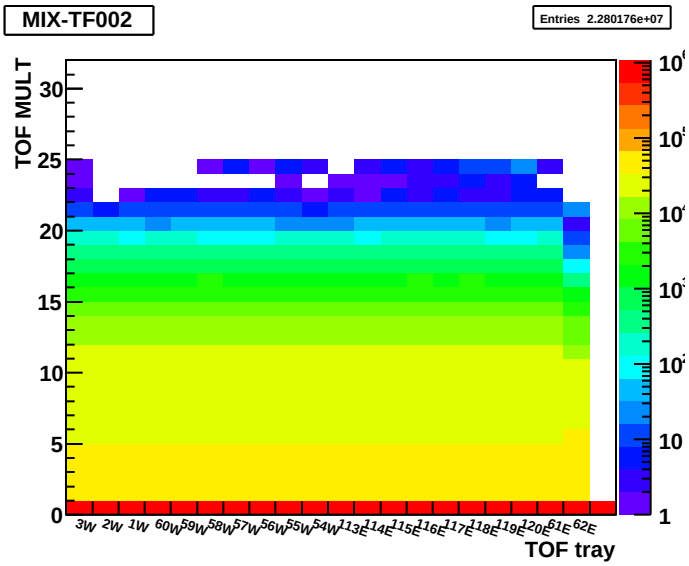

Endcap EMC L0 Input - High Tower
Entries 4.886091e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

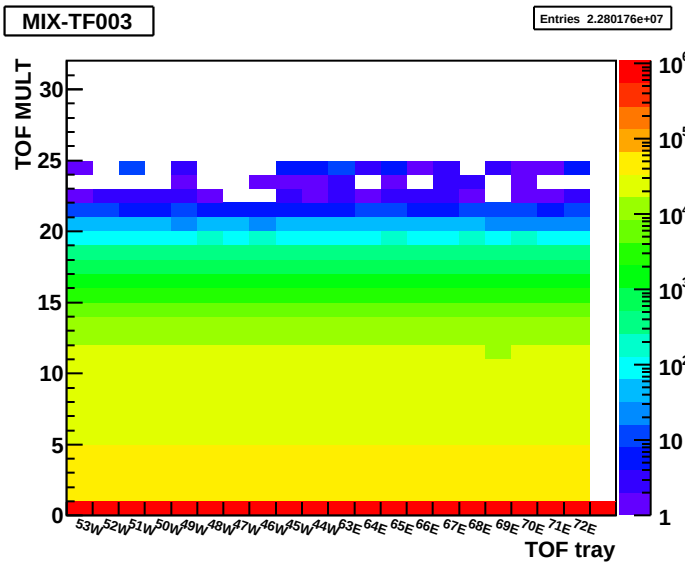

Endcap EMC L0 Input - Patch Sum
Entries 4.886091e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

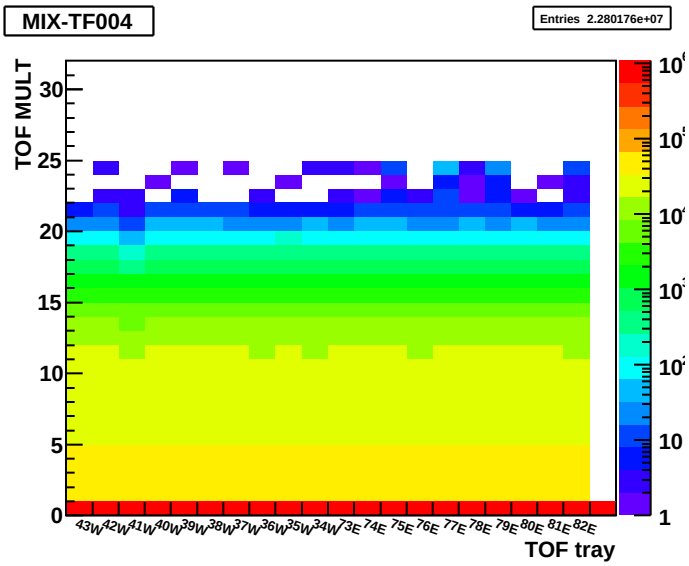

Barrel Jet Patches
Entries 9772182
JP ADC
JP ID

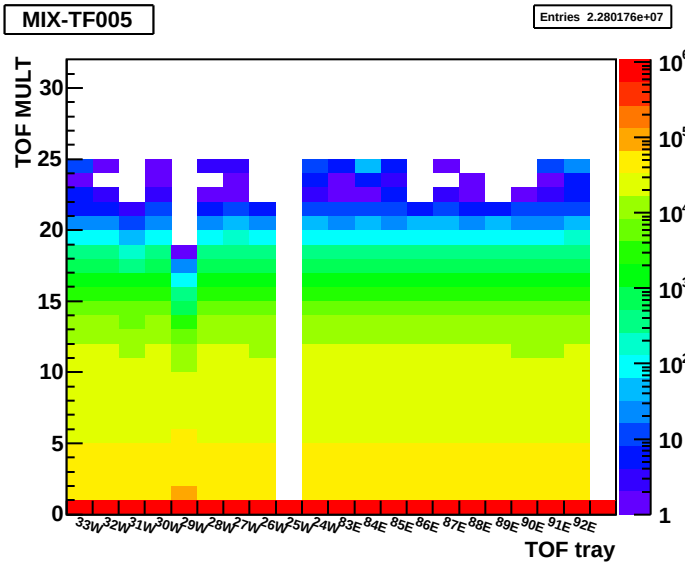

Hybrid Jet Patches
Entries 1085798
JP ADC
JP ID

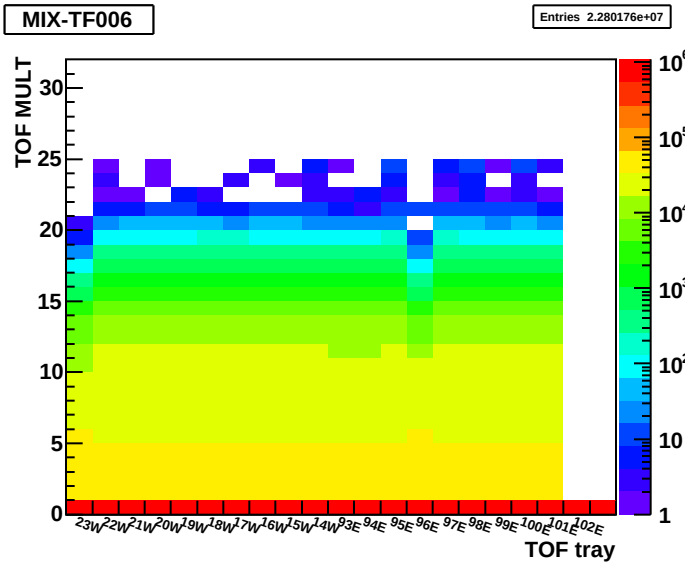

MIX-TF001
Entries 2.280176e+07
TOF MULT
TOF tray

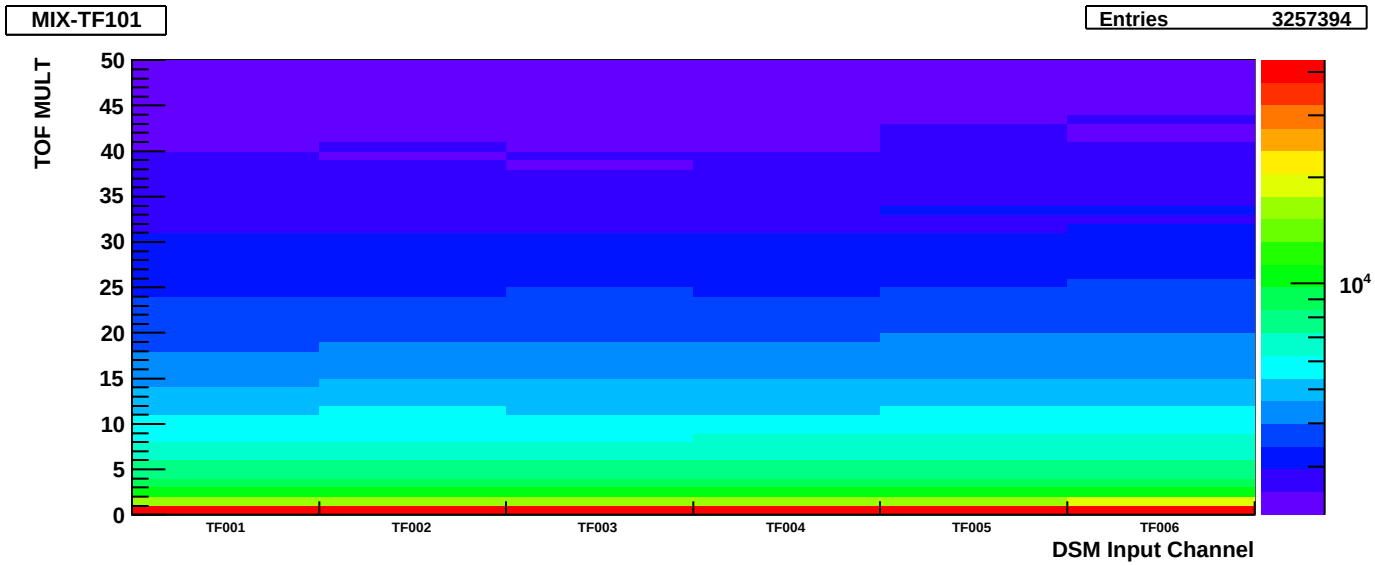

MIX-TF002
Entries 2.280176e+07
TOF MULT
TOF tray

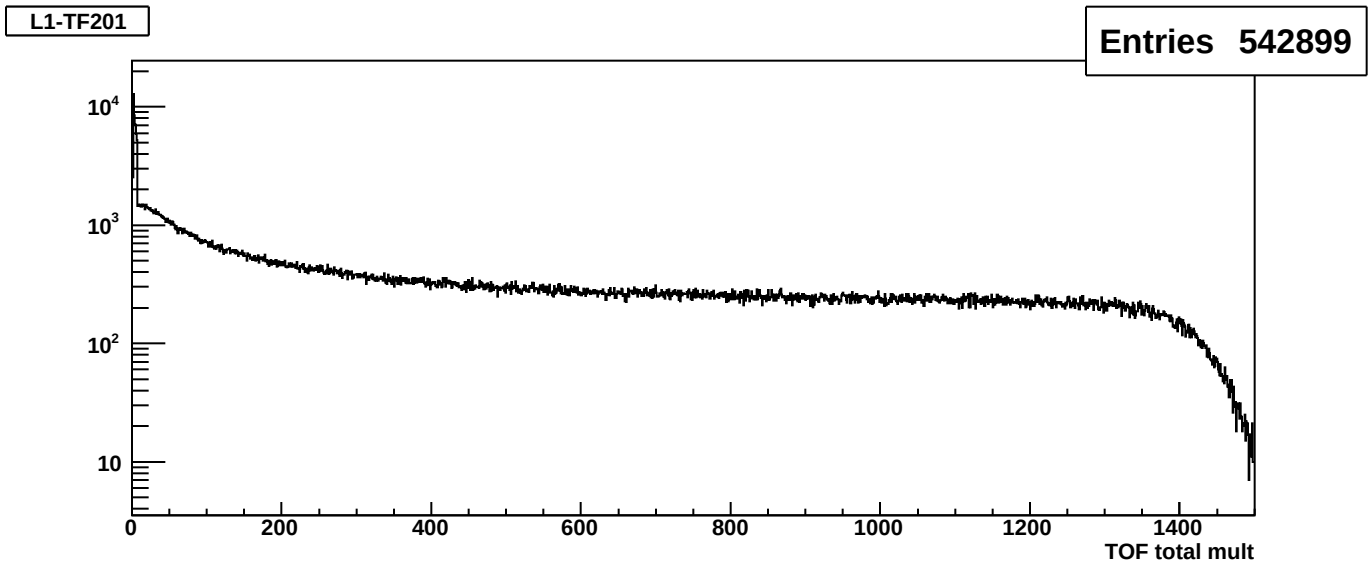

MIX-TF003
Entries 2.280176e+07
TOF MULT
TOF tray

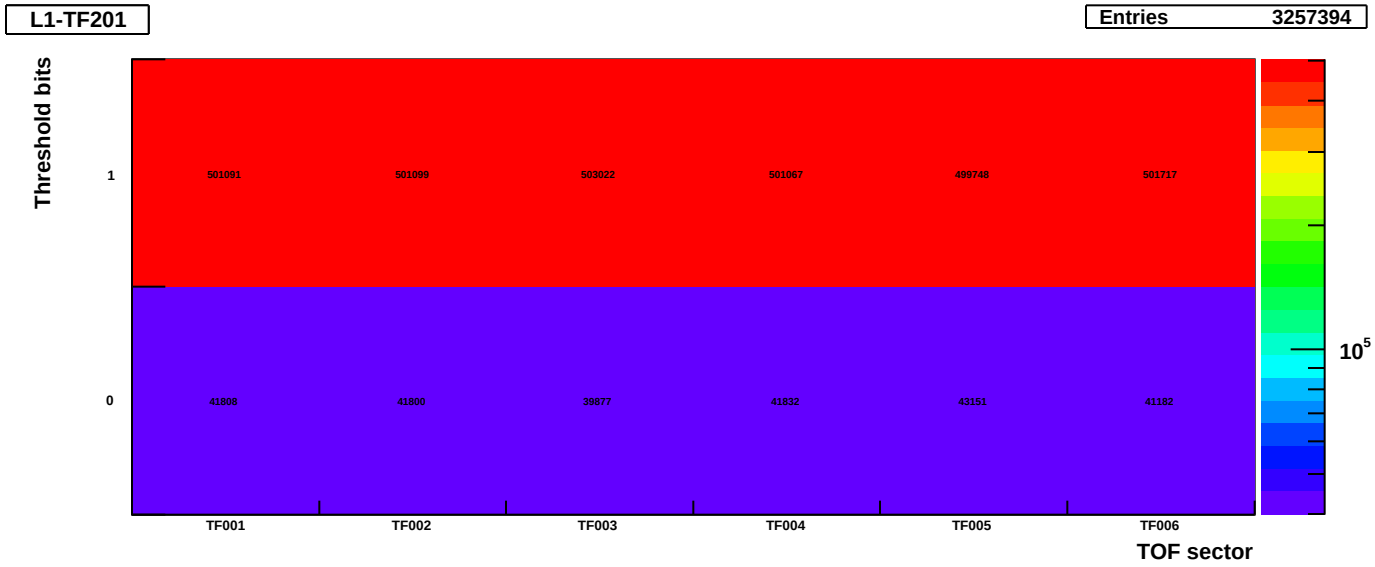

MIX-TF004
Entries 2.280176e+07
TOF MULT
TOF tray

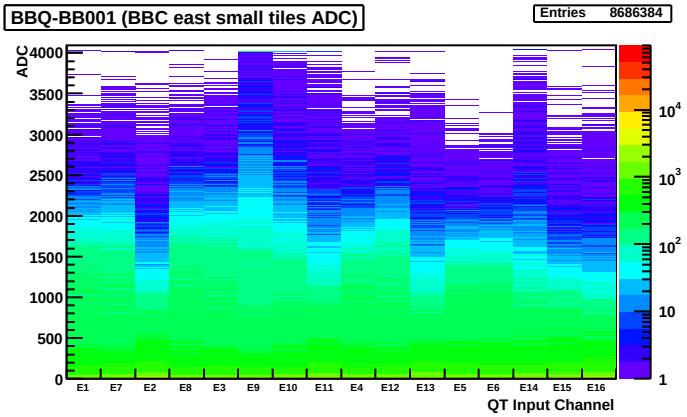

MIX-TF005
Entries 2.280176e+07
TOF MULT
TOF tray

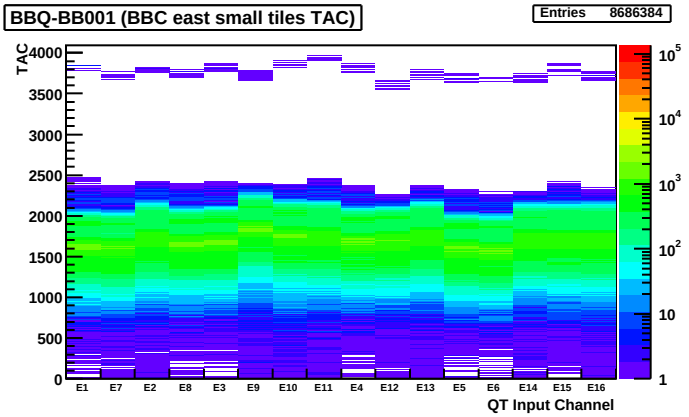

MIX-TF006
Entries 2.280176e+07
TOF MULT
TOF tray

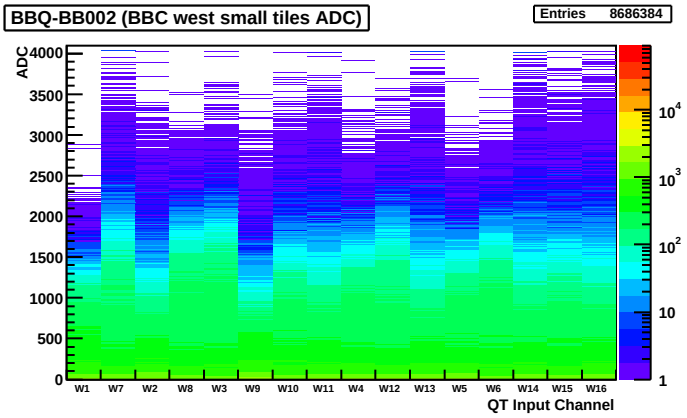

MIX-TF101
Entries 3257394
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

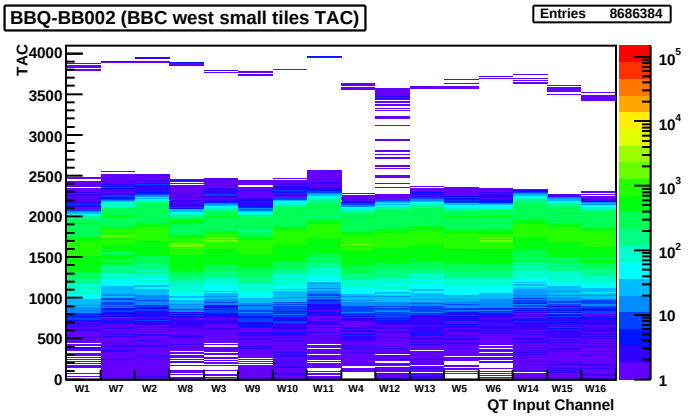

L1-TF201
Entries 542899
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

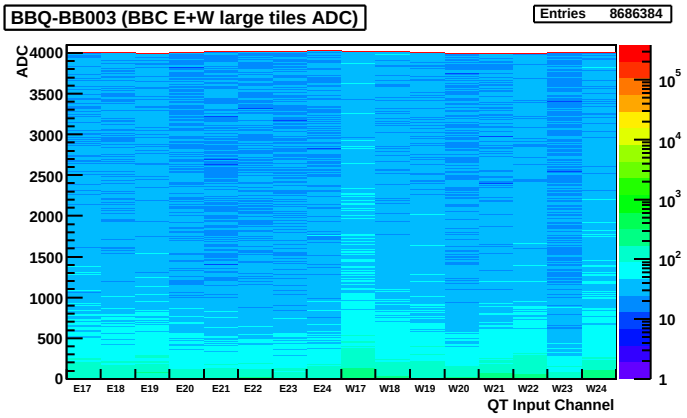

L1-TF201
Entries 3257394
Threshold bits
1
0
501091
501099
503022
501067
499748
501717
41808
41800
39877
41832
43151
41182
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

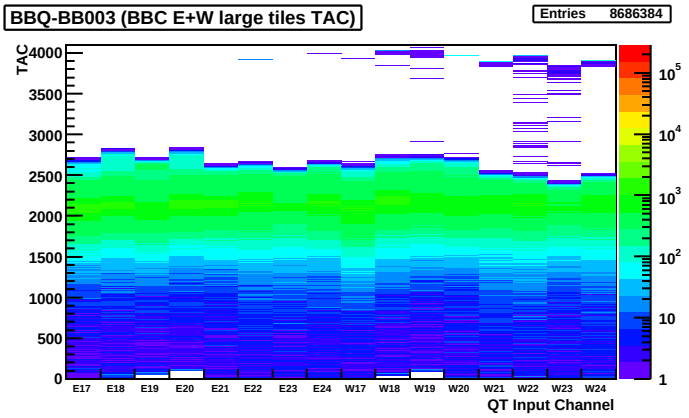

BBQ-BB001 (BBC east small tiles ADC)
Entries 8686384
ADC
QT Input Channel

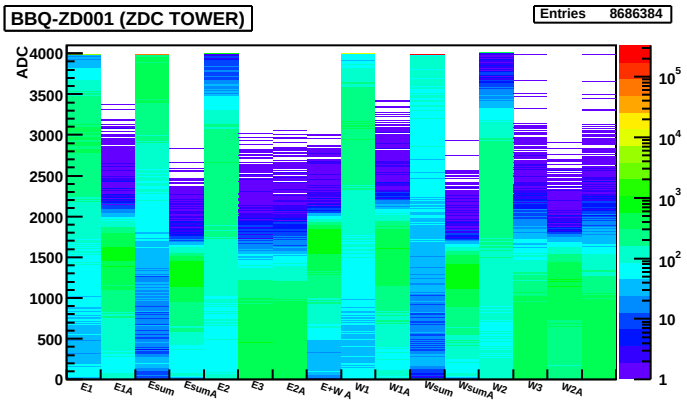

BBQ-BB001 (BBC east small tiles TAC)
Entries 8686384
TAC
QT Input Channel

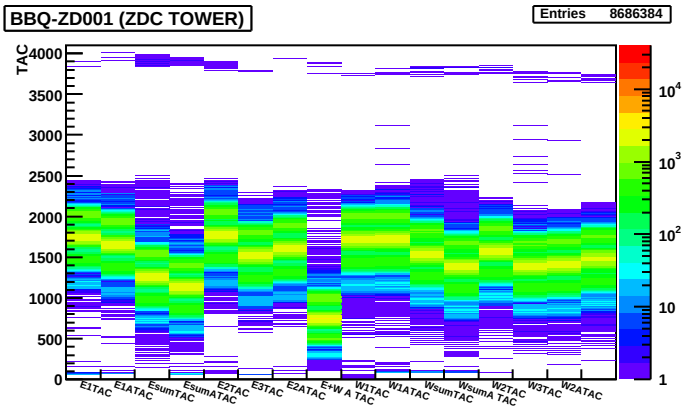

BBQ-BB002 (BBC west small tiles ADC)
Entries 8686384
ADC
QT Input Channel

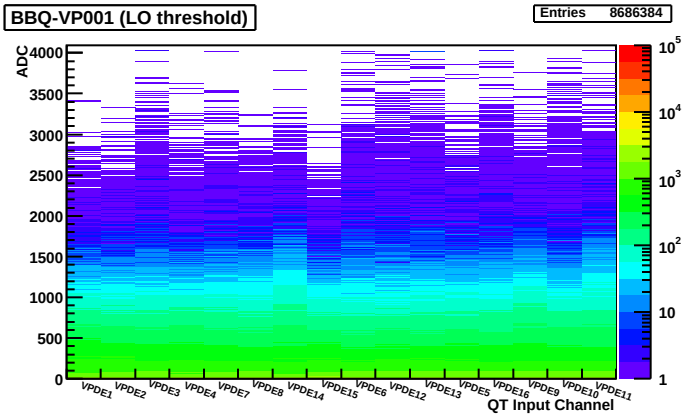

BBQ-BB002 (BBC west small tiles TAC)
Entries 8686384
TAC
QT Input Channel

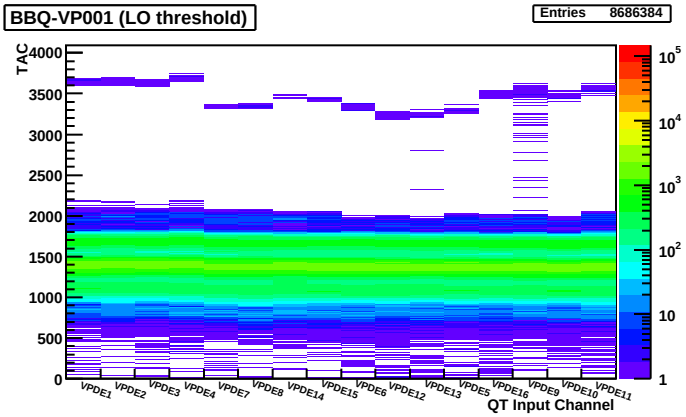

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8686384
ADC
QT Input Channel

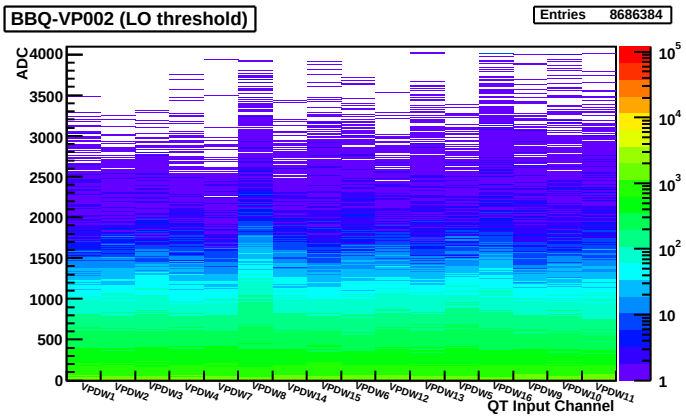

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8686384
TAC
QT Input Channel

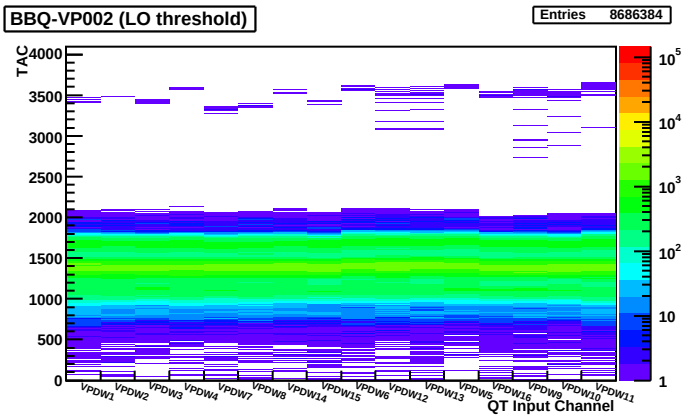

BBQ-ZD001 (ZDC TOWER)
Entries 8686384
ADC

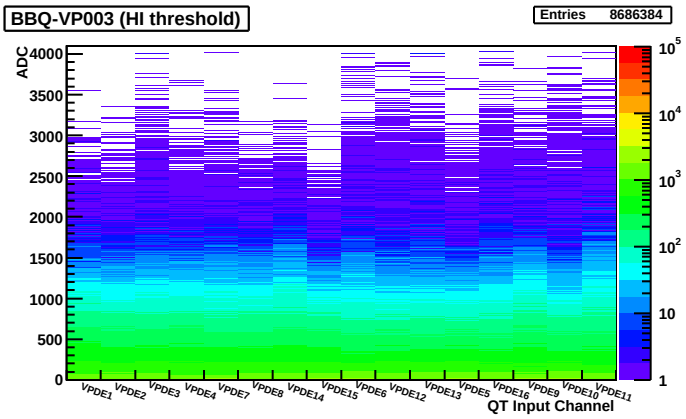

BBQ-ZD001 (ZDC TOWER)
Entries 8686384
TAC

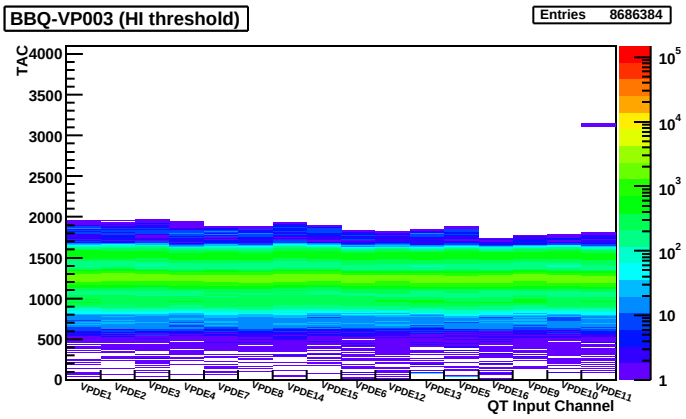

BBQ-VP001 (LO threshold)
Entries 8686384
ADC
QT Input Channel

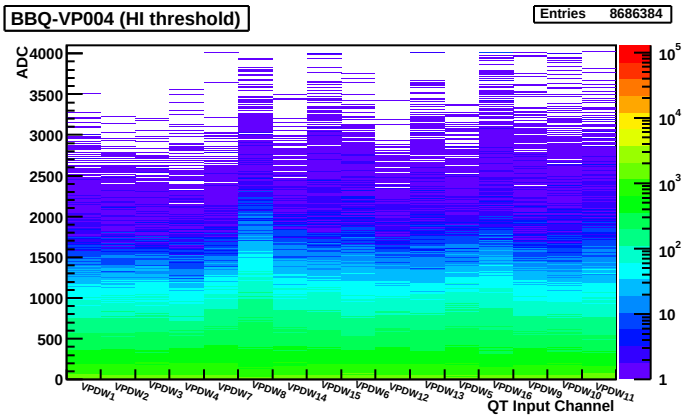

BBQ-VP001 (LO threshold)
Entries 8686384
TAC
QT Input Channel

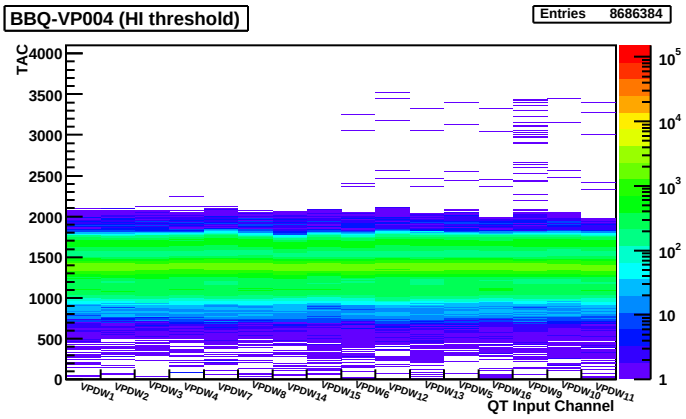

BBQ-VP002 (LO threshold)
Entries 8686384
ADC
QT Input Channel

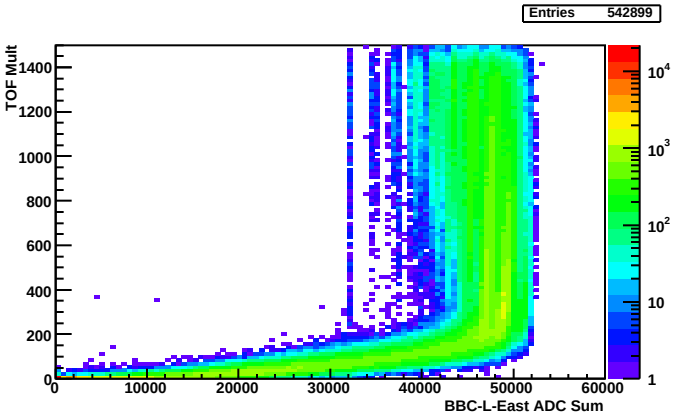

BBQ-VP002 (LO threshold)
Entries 8686384
TAC
QT Input Channel

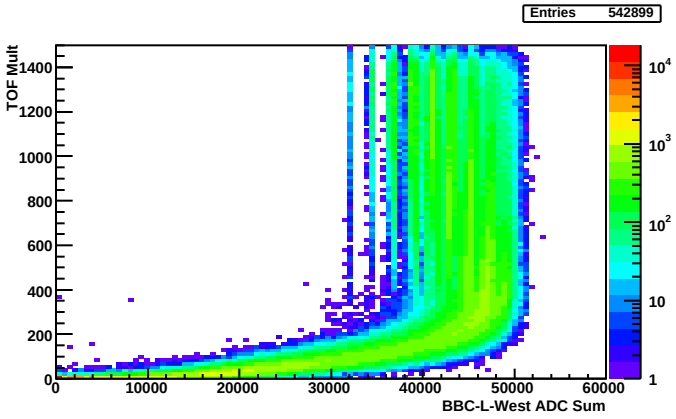

BBQ-VP003 (HI threshold)
Entries 8686384
ADC
QT Input Channel

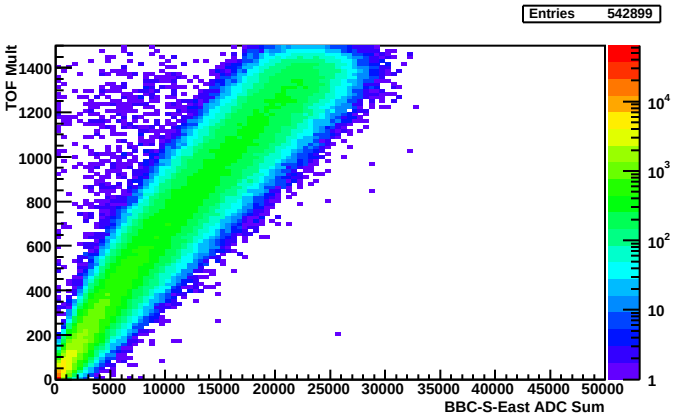

BBQ-VP003 (HI threshold)
Entries 8686384
TAC
QT Input Channel

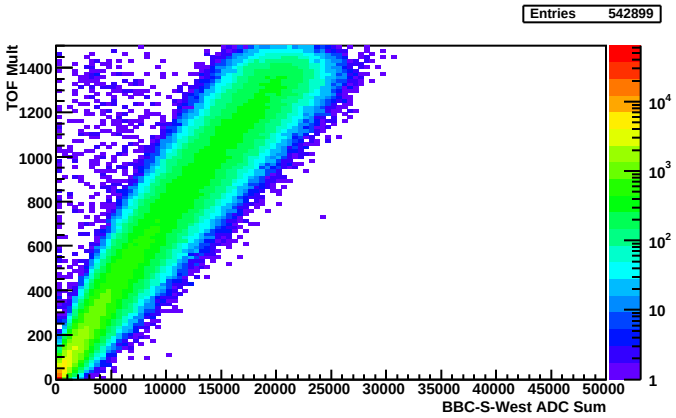

BBQ-VP004 (HI threshold)
Entries 8686384
ADC
QT Input Channel

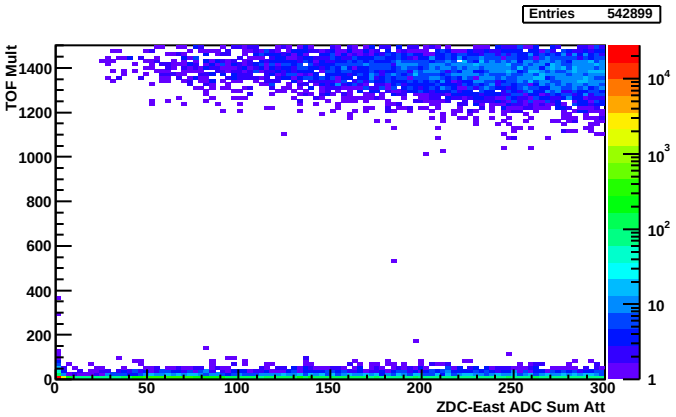

BBQ-VP004 (HI threshold)
Entries 8686384
TAC
QT Input Channel

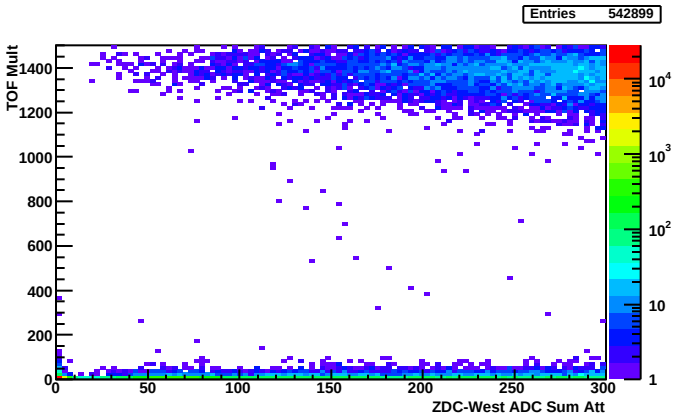

Entries 542899
TOF Mult
BBC-L-East ADC Sum

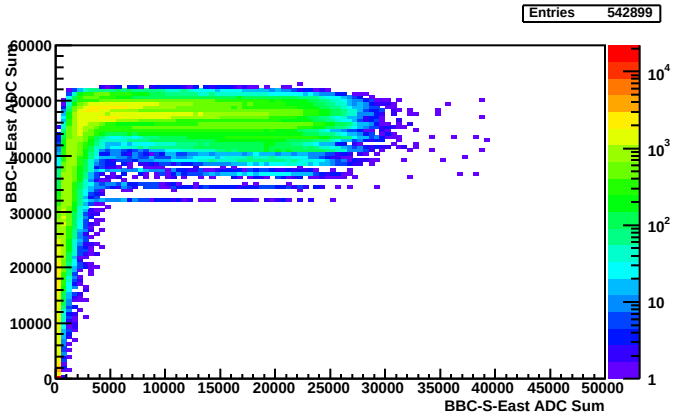

Entries 542899
TOF Mult
BBC-L-West ADC Sum

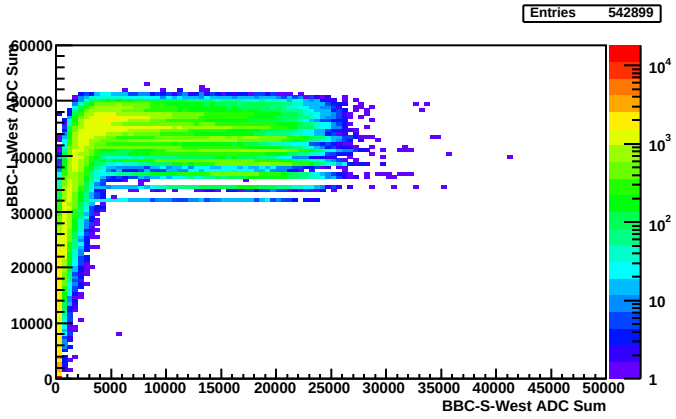

Entries 542899
TOF Mult
BBC-S-East ADC Sum

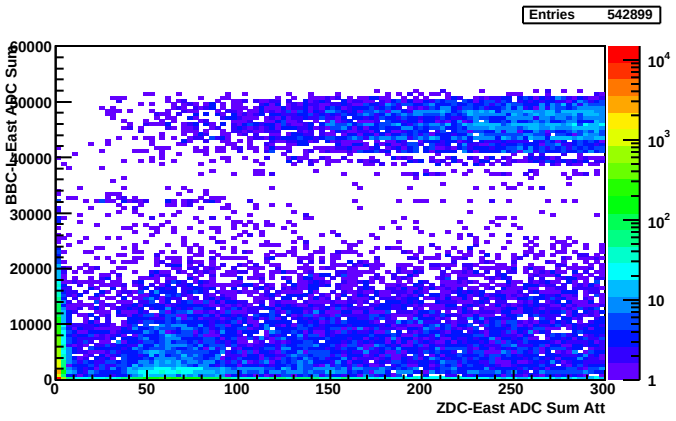

Entries 542899
TOF Mult
BBC-S-West ADC Sum

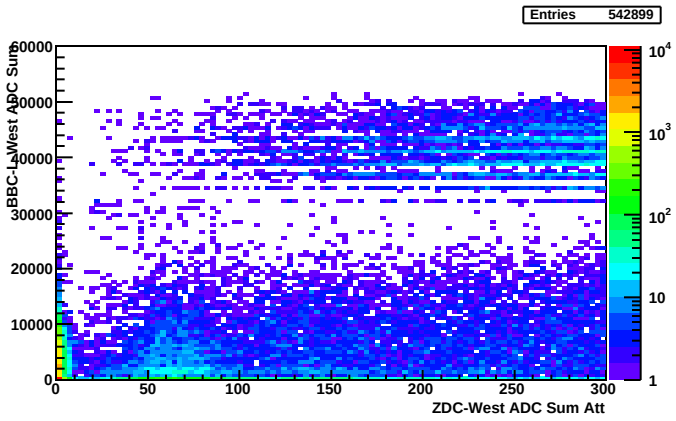

Entries 542899
TOF Mult
ZDC-East ADC Sum Att


Entries 542899
TOF Mult
ZDC-West ADC Sum Att


Entries 542899
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 542899
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 542899
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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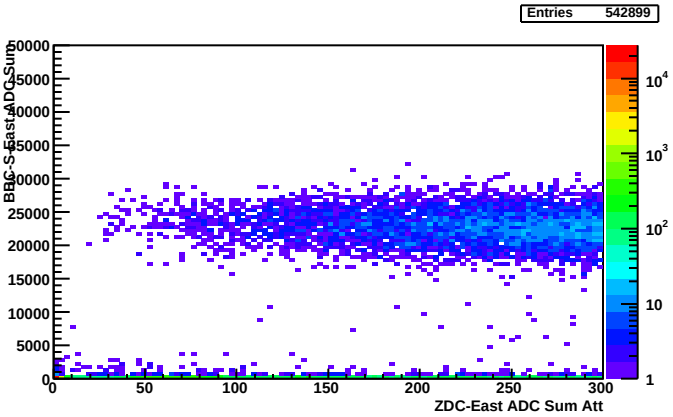
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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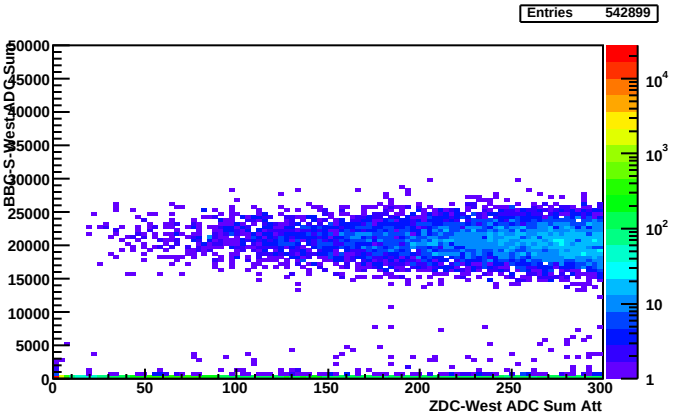
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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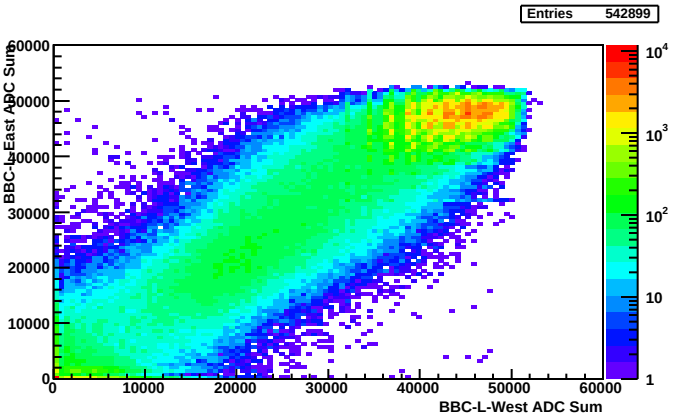
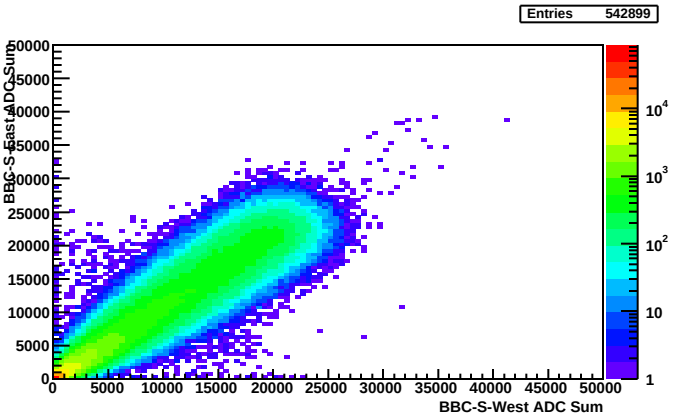
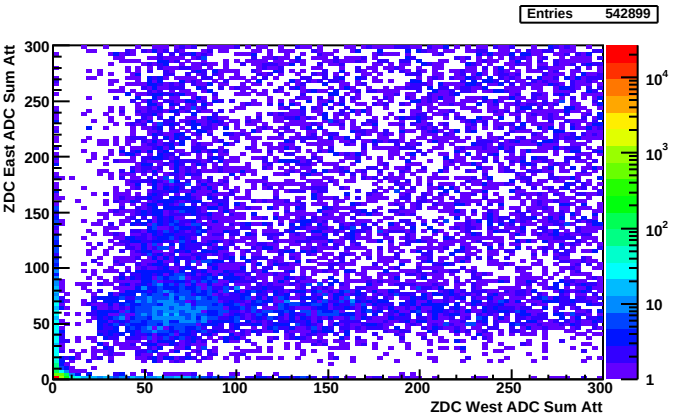
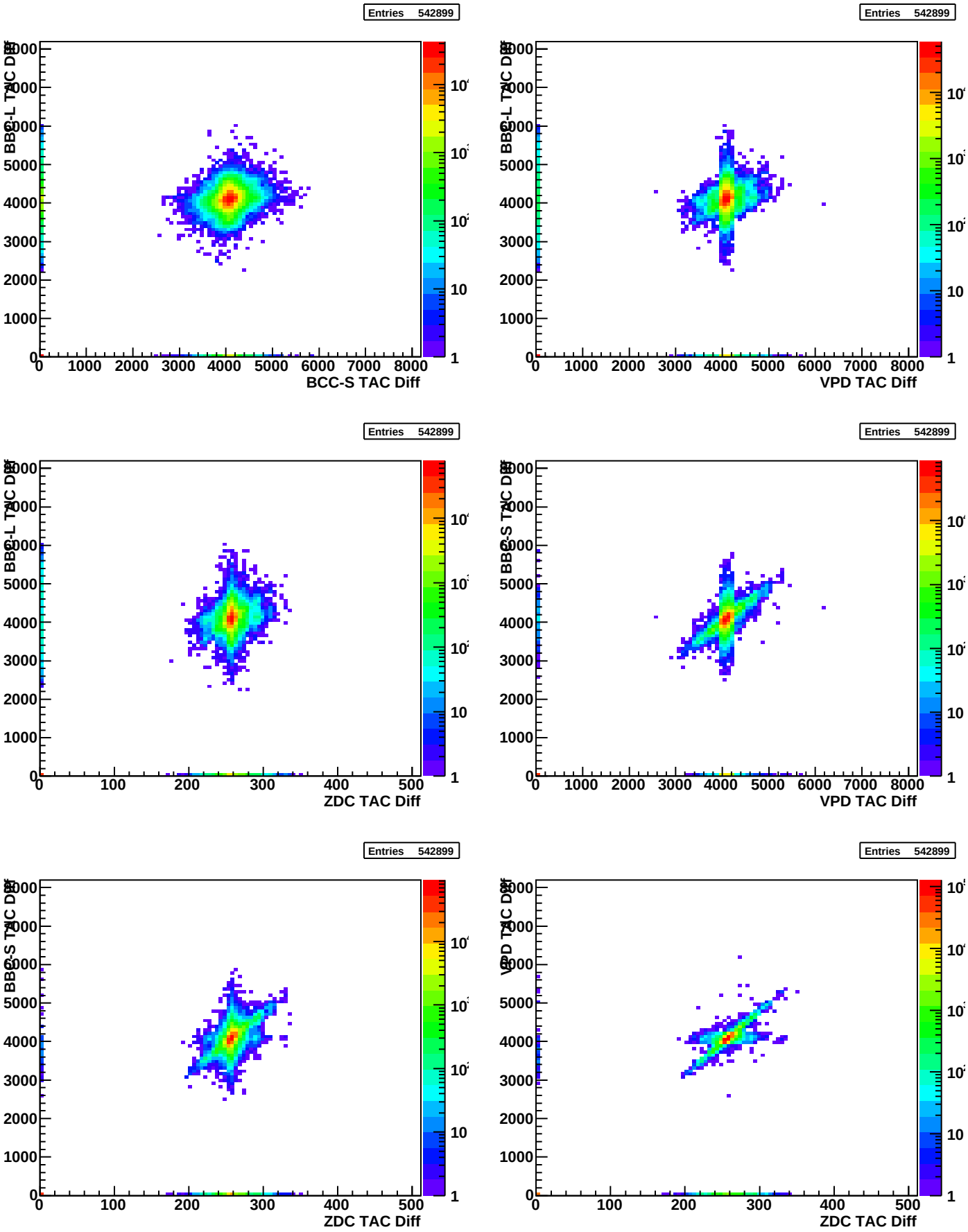
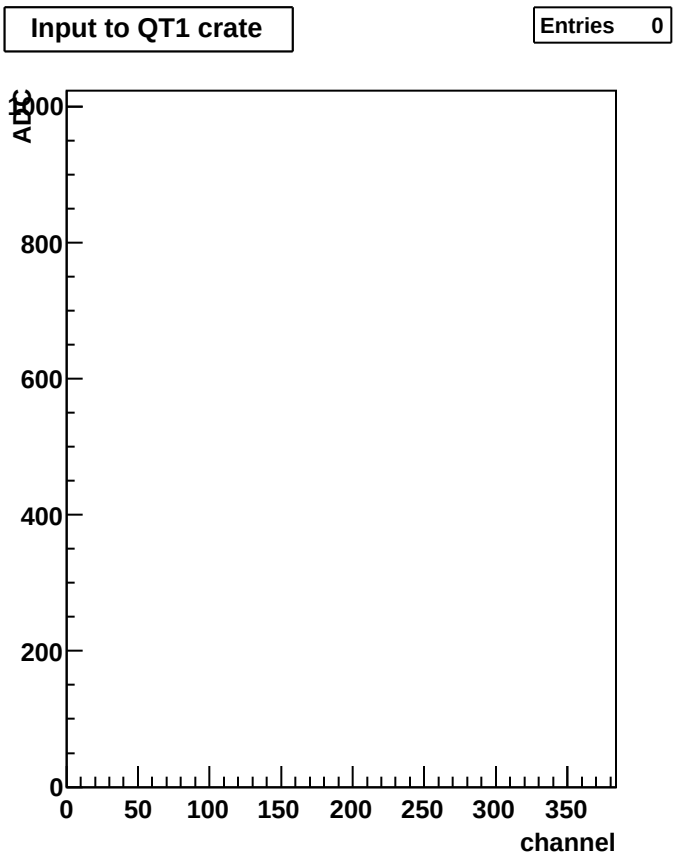
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

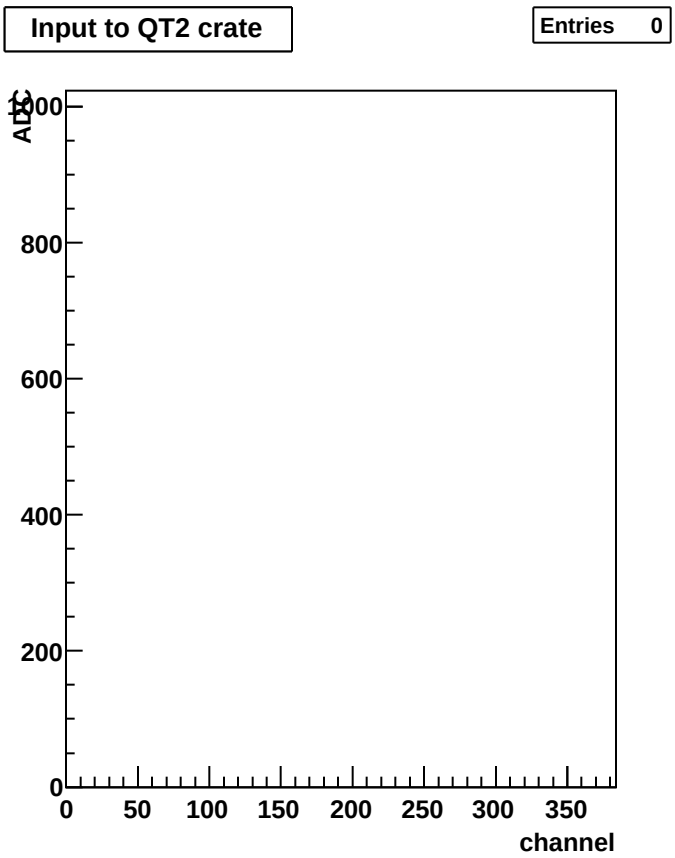

Entries 542899
BBC-L-East ADC Sum
BBC-L-West ADC Sum

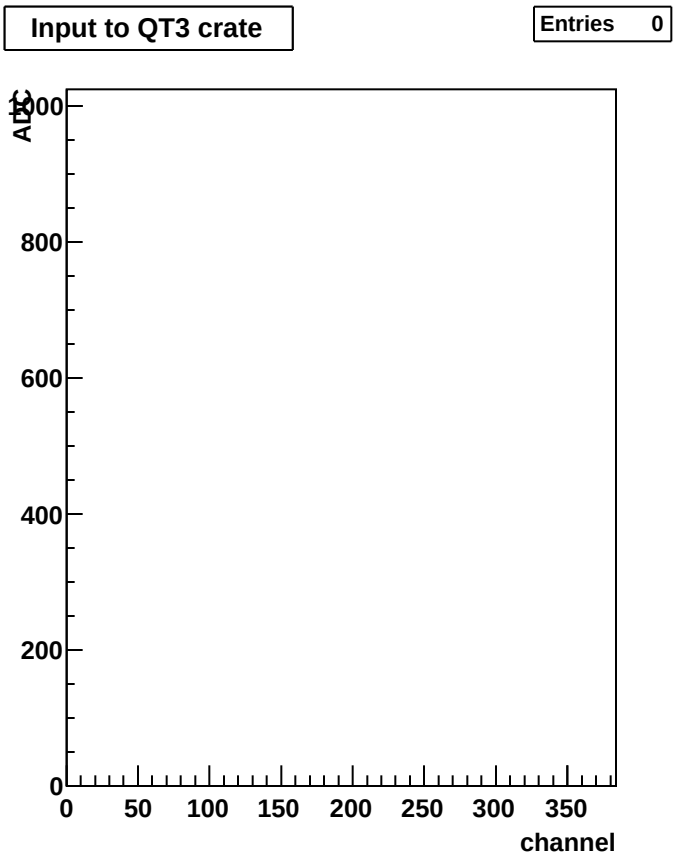

Entries 542899
BBC-S-East ADC Sum
BBC-S-West ADC Sum

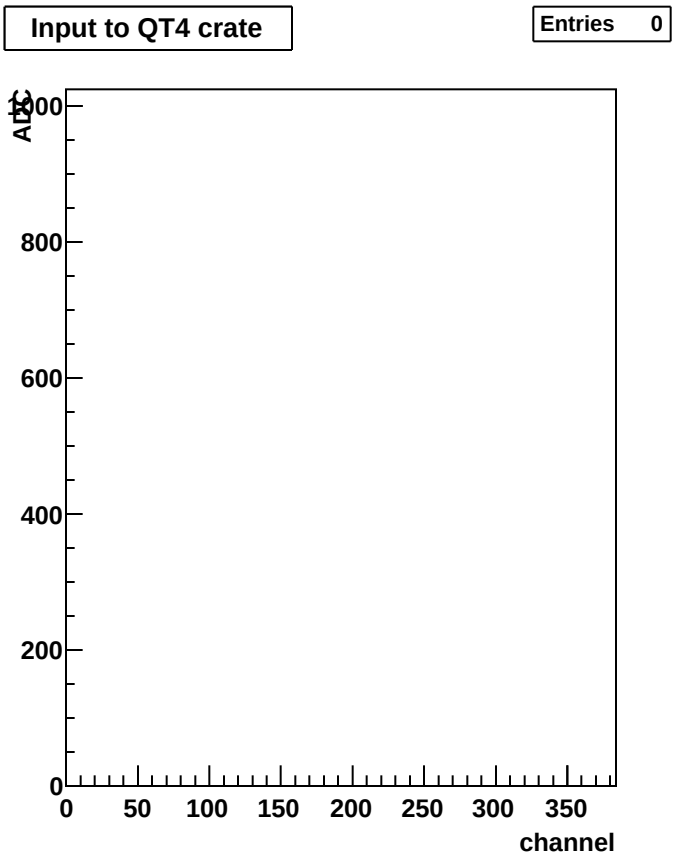

Entries 542899
ZDC East ADC Sum Att
ZDC West ADC Sum Att

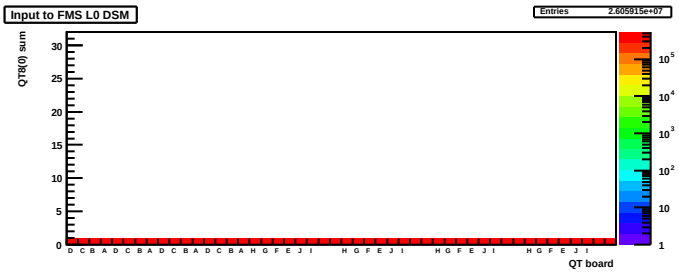

Entries 542899
BBC-L TAC Diff
BCC-S TAC Diff
Entries 542899
BBC-L TAC Diff
VPD TAC Diff
Entries 542899
BBC-L TAC Diff
ZDC TAC Diff
Entries 542899
BBC-S TAC Diff
VPD TAC Diff
Entries 542899
BBC-S TAC Diff
ZDC TAC Diff
Entries 542899
VPD TAC Diff
ZDC TAC Diff

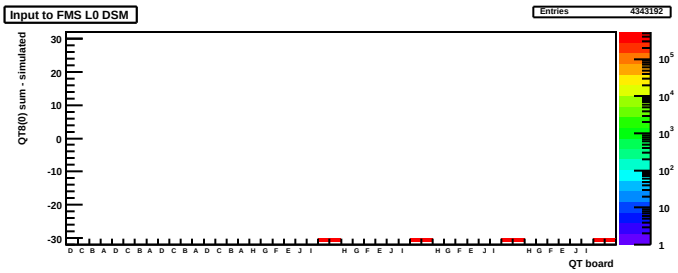

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

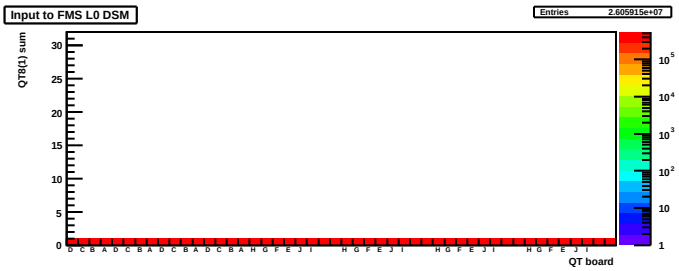

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

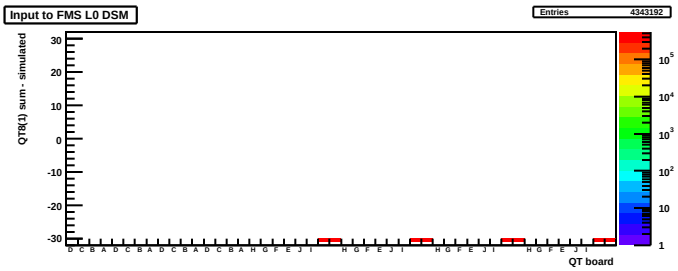

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

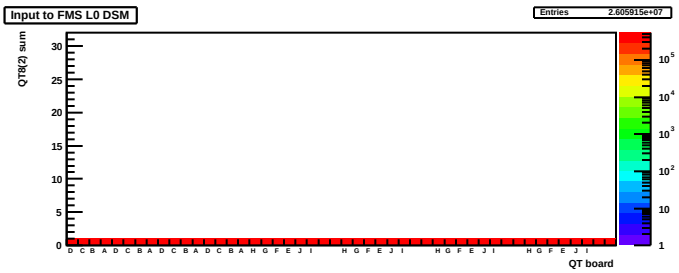

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

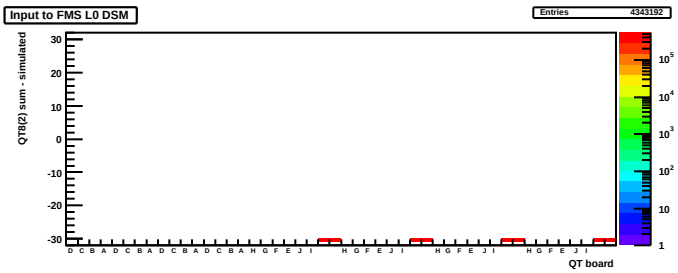

Input to FMS L0 DSM
Entries 2.605915e+07
QT8(0) sum
QT board

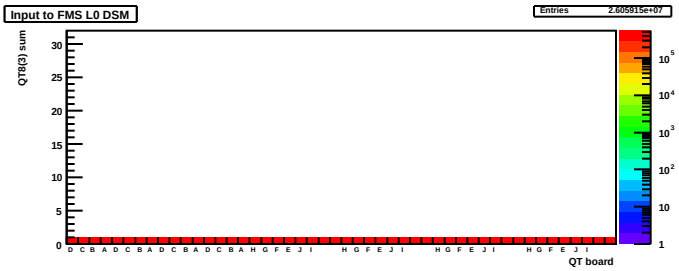

Input to FMS L0 DSM
Entries 4343192
QT8(0) sum - simulated
QT board

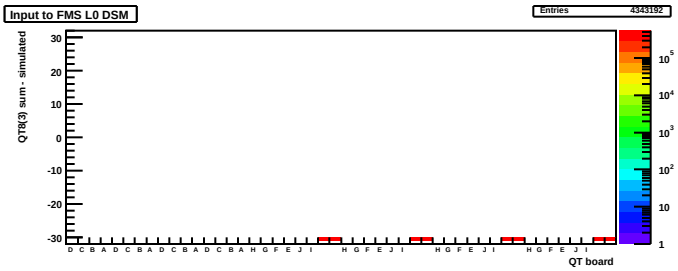

Input to FMS L0 DSM
Entries 2.605915e+07
QT8(1) sum
QT board

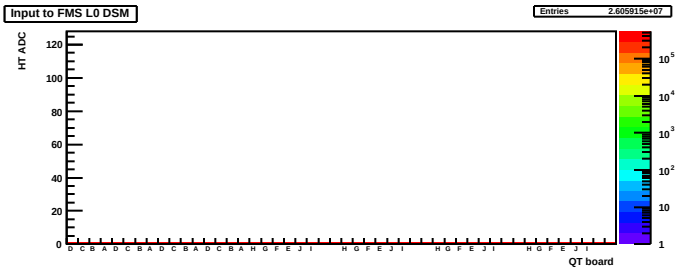

Input to FMS L0 DSM
Entries 4343192
QT8(1) sum - simulated
QT board

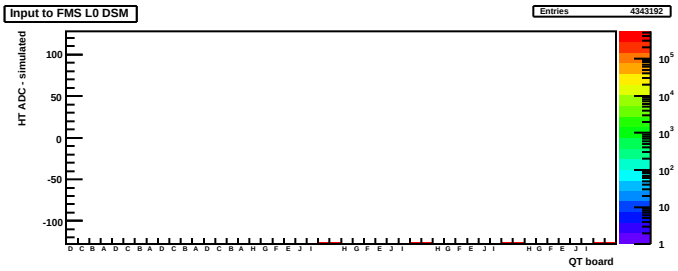

Input to FMS L0 DSM
Entries 2.605915e+07
QT8(2) sum
QT board

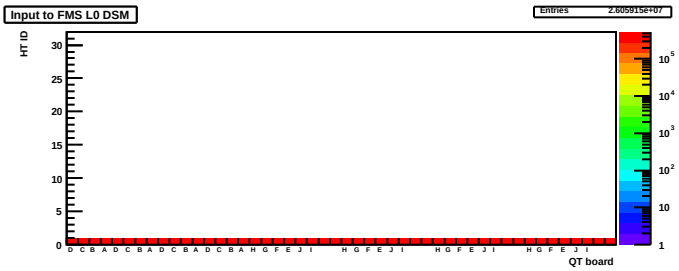

Input to FMS L0 DSM
Entries 4343192
QT8(2) sum - simulated
QT board

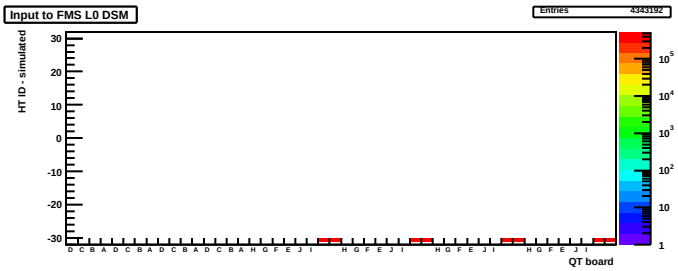

Input to FMS L0 DSM
Entries 2.605915e+07
QT8(3) sum
QT board

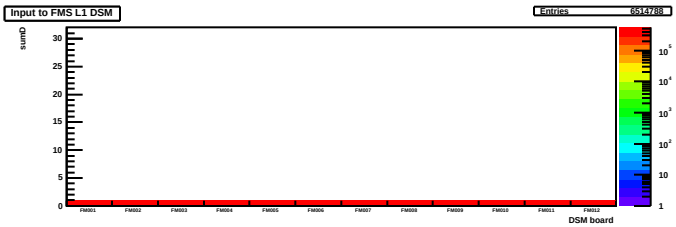

Input to FMS L0 DSM
Entries 4343192
QT8(3) sum - simulated
QT board

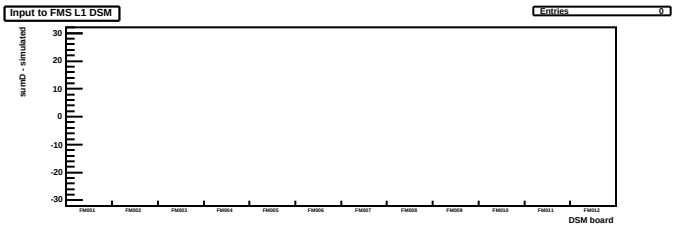

Input to FMS L0 DSM
Entries 2.605915e+07
HT ADC
QT board

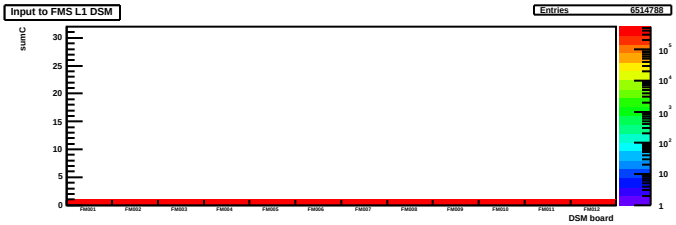

Input to FMS L0 DSM
Entries 4343192
HT ADC - simulated
QT board

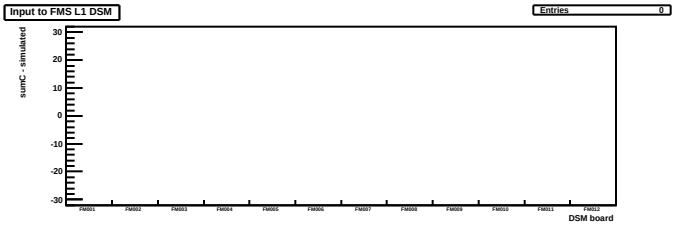

Input to FMS L0 DSM
Entries 2.605915e+07
HT ID
QT board

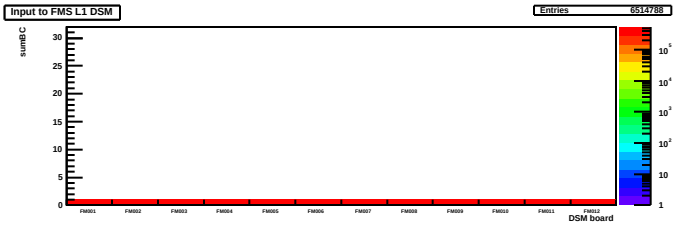

Input to FMS L0 DSM
Entries 4343192
HT ID - simulated
QT board

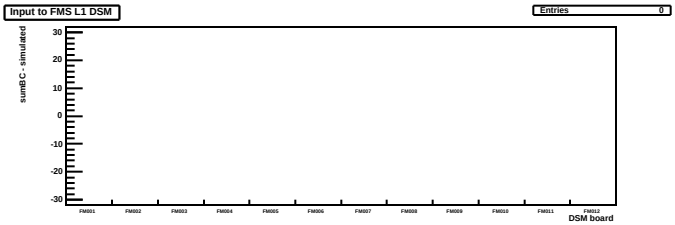

Input to FMS L1 DSM
Entries 6514788
sumD
DSM board

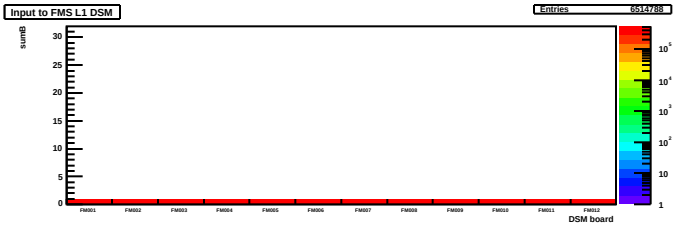

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

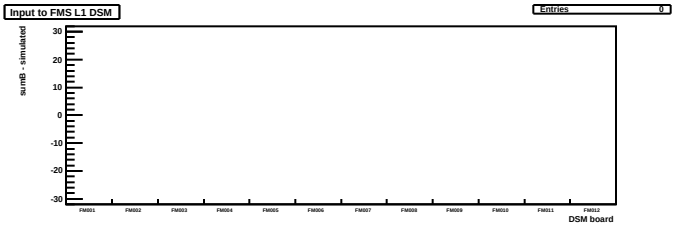

Input to FMS L1 DSM
Entries 6514788
sumC
DSM board

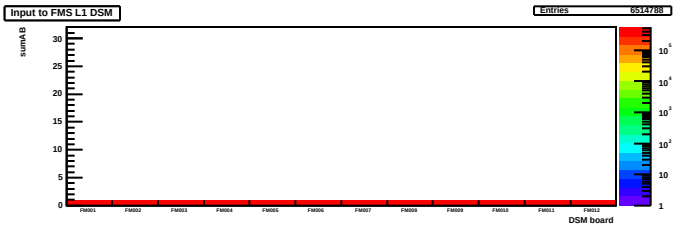

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

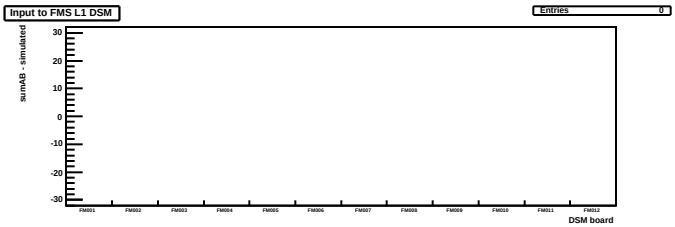

Input to FMS L1 DSM
Entries 6514788
sumBC
DSM board

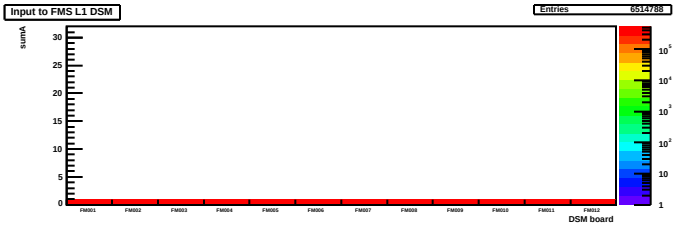

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

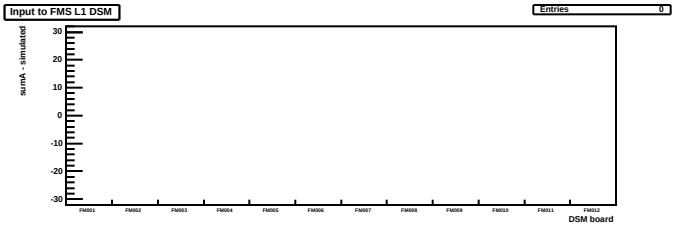

Input to FMS L1 DSM
Entries 6514788
sumB
DSM board

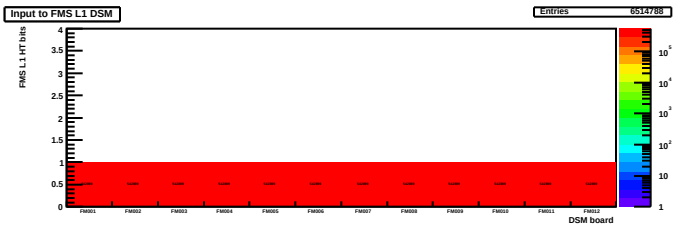

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

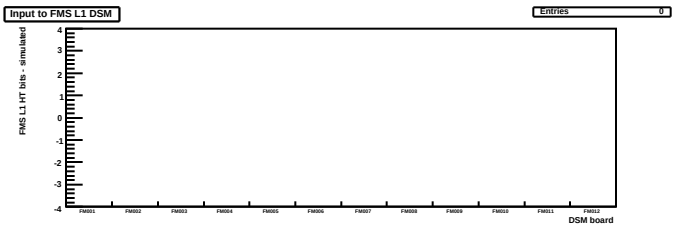

Input to FMS L1 DSM
Entries 6514788
sumAB
DSM board

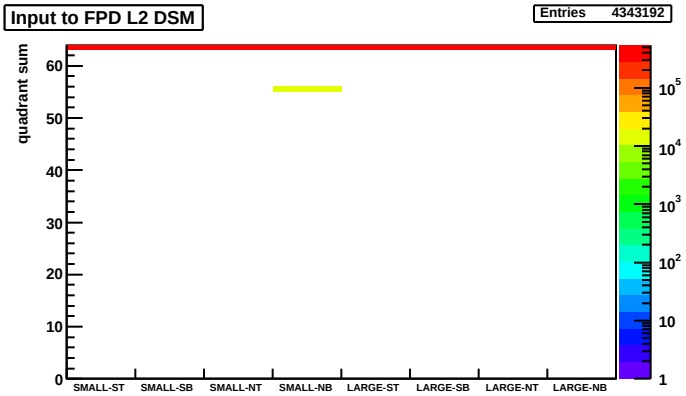

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

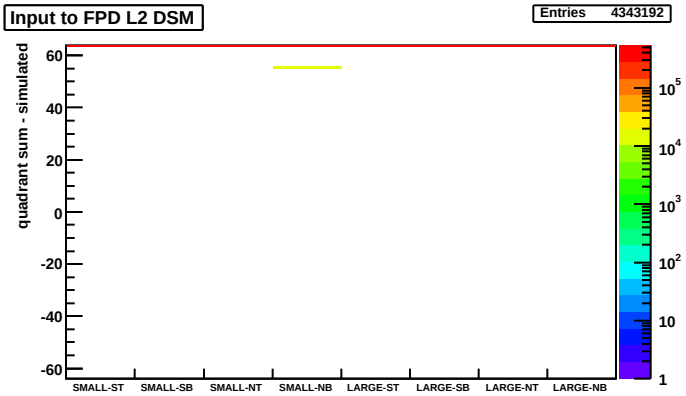

Input to FMS L1 DSM
Entries 6514788
sumA
DSM board

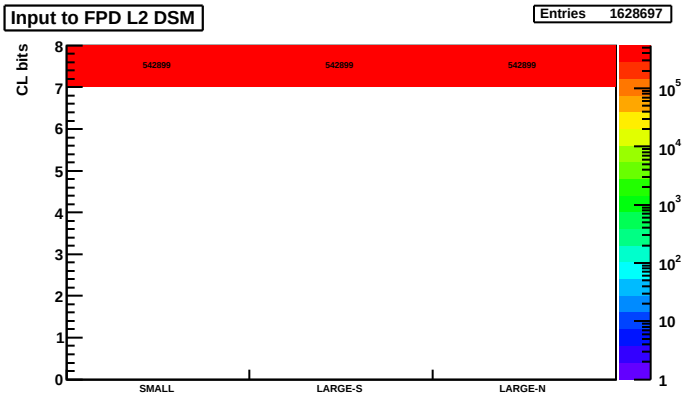

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

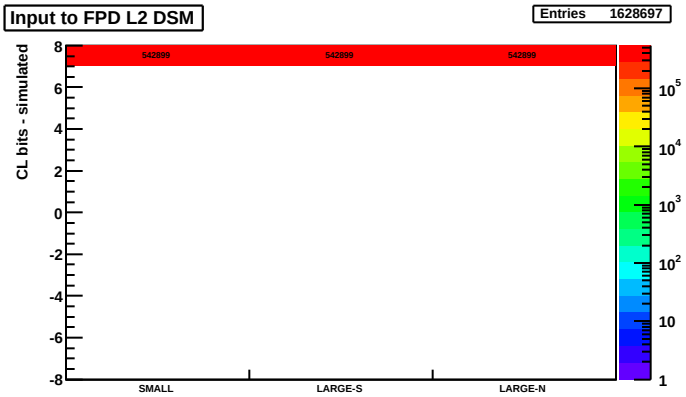

Input to FMS L1 DSM
Entries 6514788
FMS L1 HT bits
DSM board

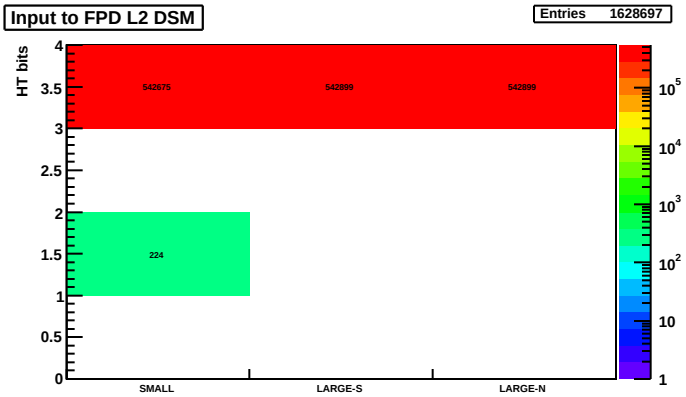

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

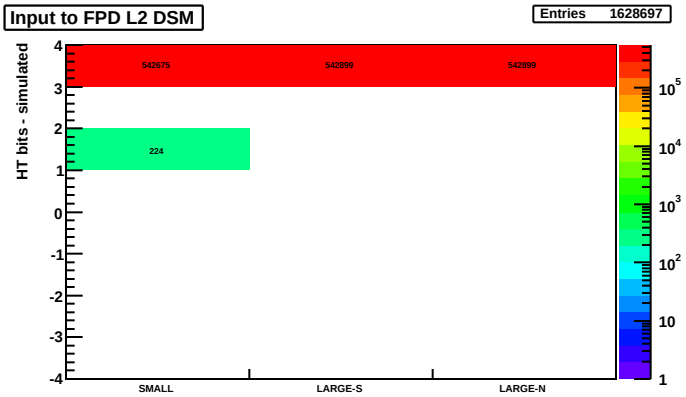

Input to FPD L2 DSM
Entries 4343192
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

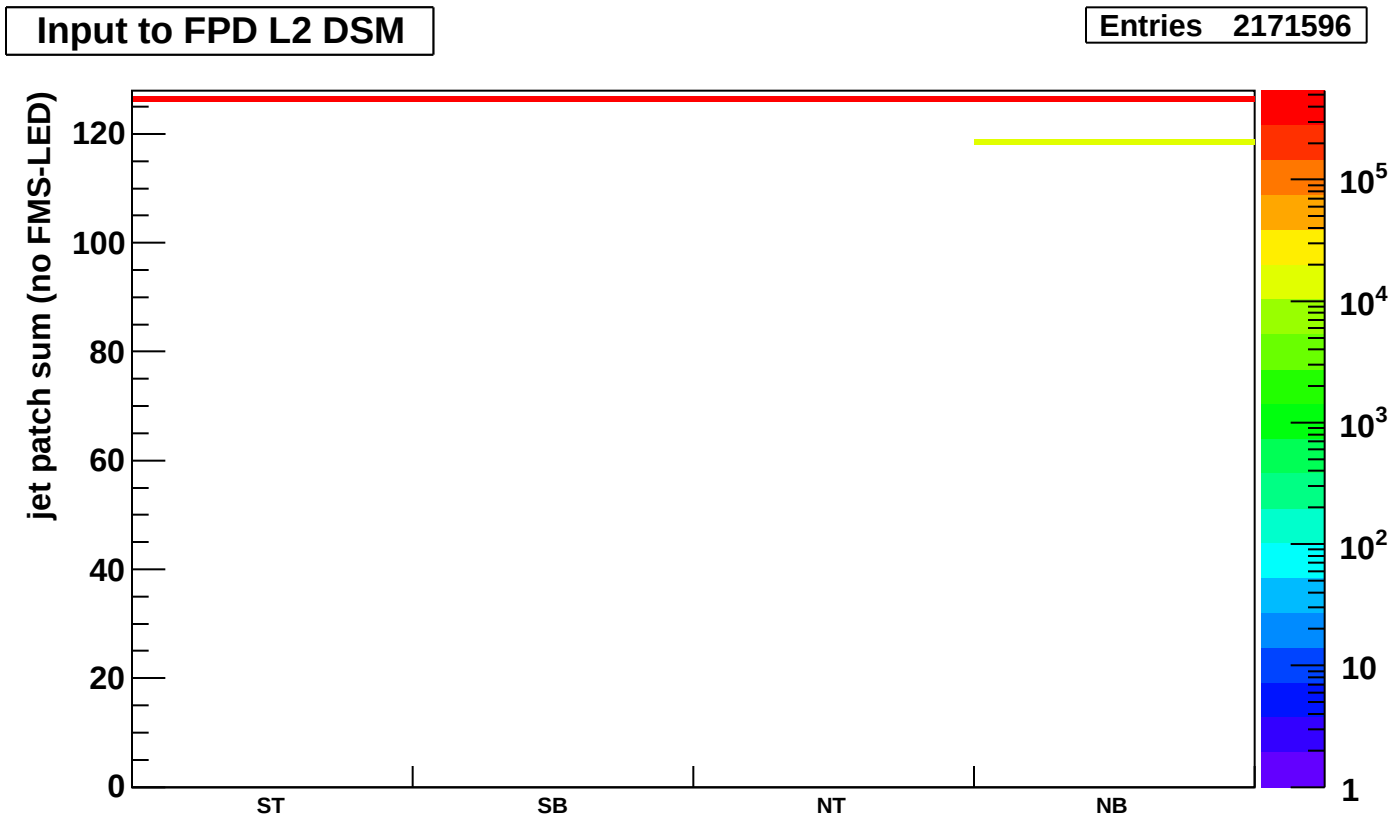

Input to FPD L2 DSM
Entries 4343192
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

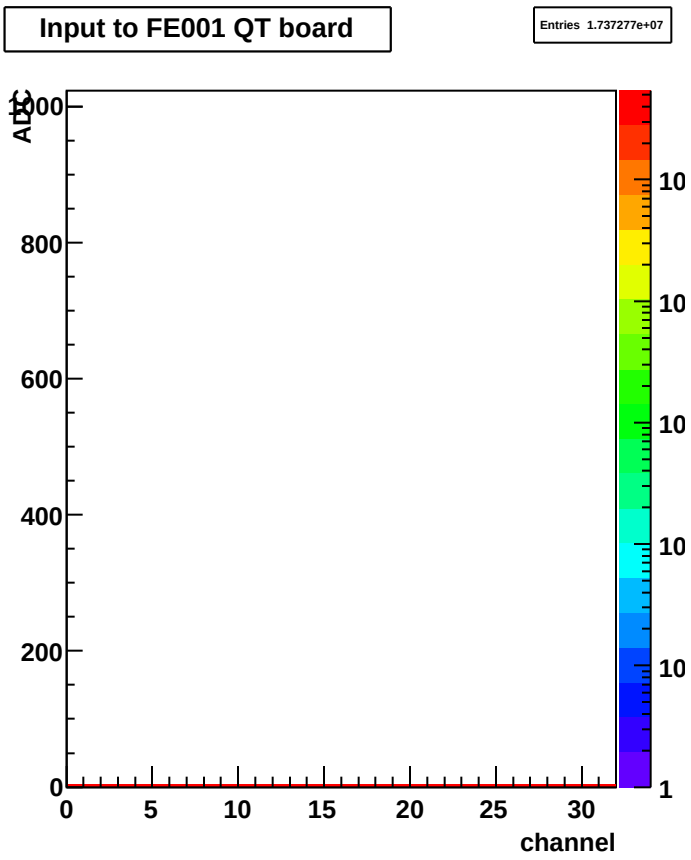

Input to FPD L2 DSM
Entries 1628697
CL bits
542899
542899
542899
SMALL
LARGE-S
LARGE-N

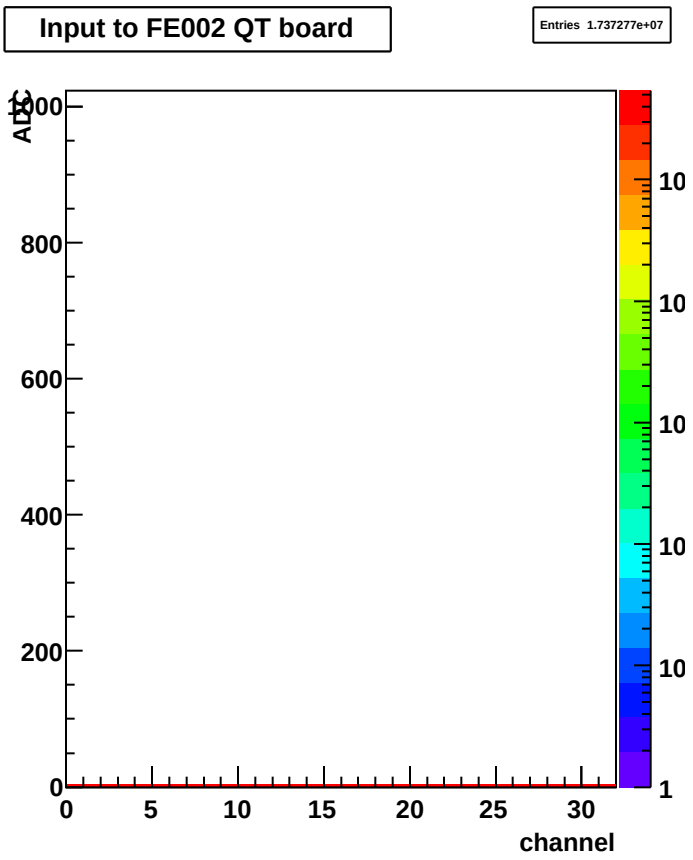

Input to FPD L2 DSM
Entries 1628697
CL bits - simulated
542899
542899
542899
SMALL
LARGE-S
LARGE-N

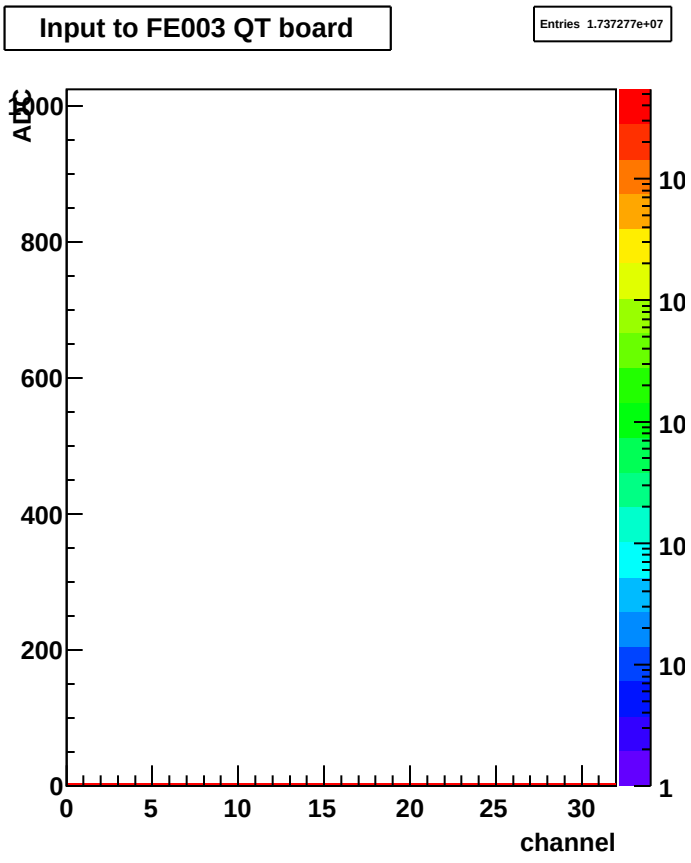

Input to FPD L2 DSM
Entries 1628697
HT bits
542675
542899
542899
224
SMALL
LARGE-S
LARGE-N

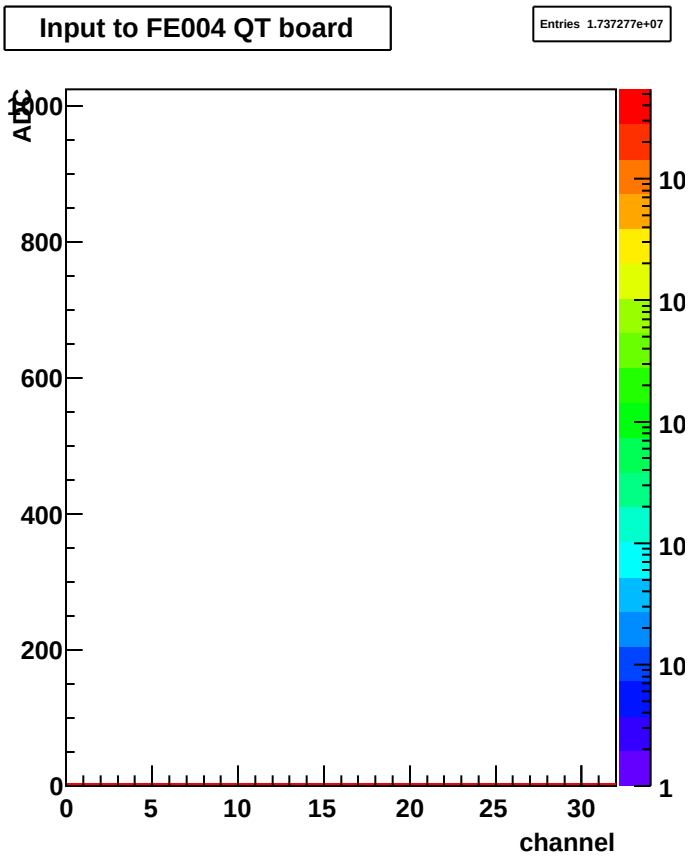

Input to FPD L2 DSM
Entries 1628697
HT bits - simulated
542675
542899
542899
224
SMALL
LARGE-S
LARGE-N

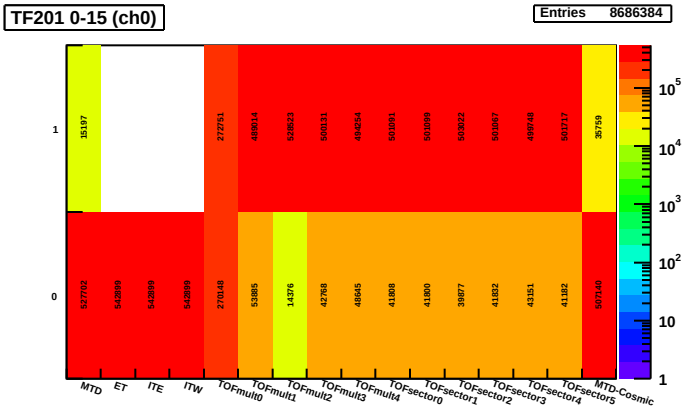

Input to FPD L2 DSM
Entries 2171596
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

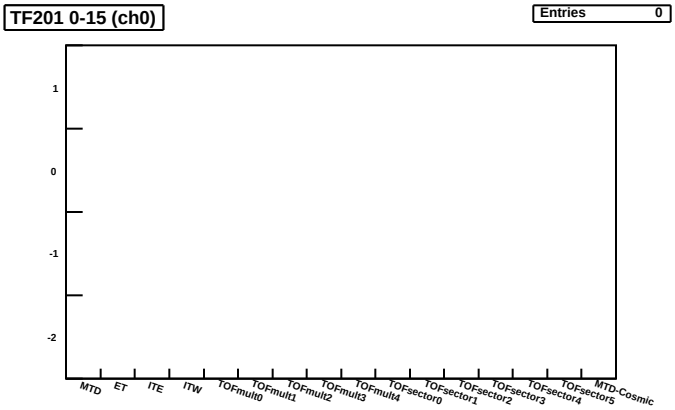

Input to FE001 QT board
Entries 1.737277e+07
ADC
channel

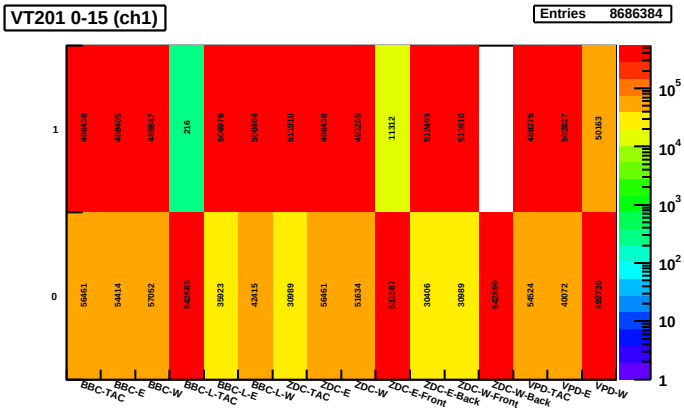

Input to FE002 QT board
Entries 1.737277e+07
ADC
channel

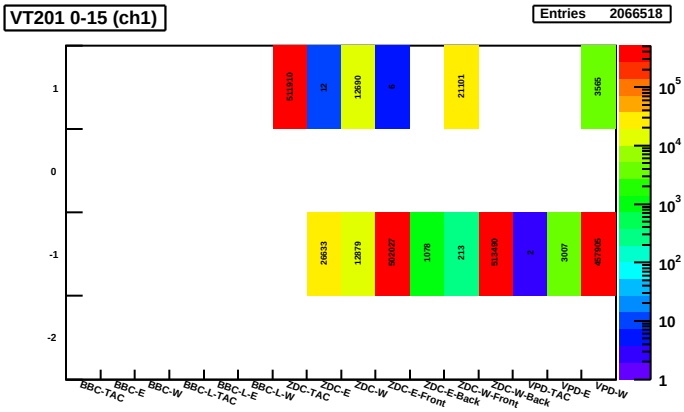

Input to FE003 QT board
Entries 1.737277e+07
ADC
channel

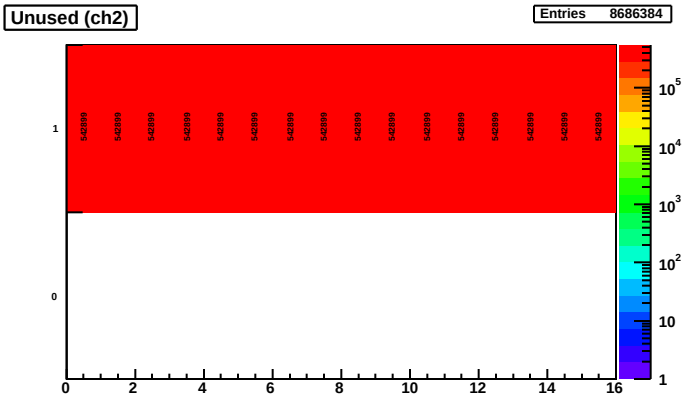

Input to FE004 QT board
Entries 1.737277e+07
ADC
channel

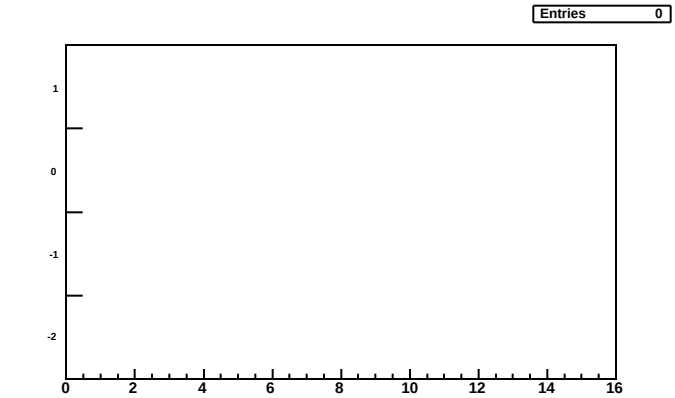

TF201 0-15 (ch0)
Entries 8686384
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

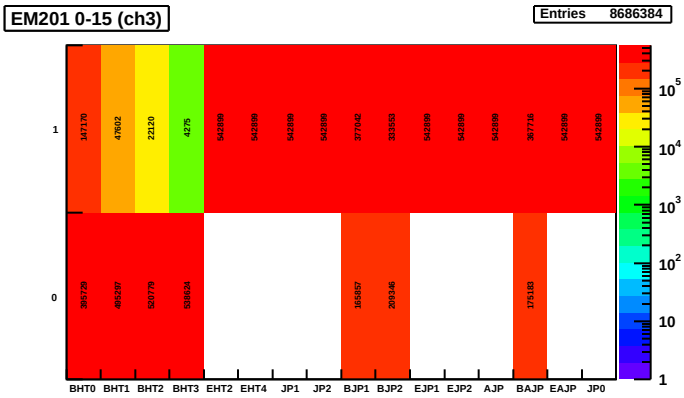

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

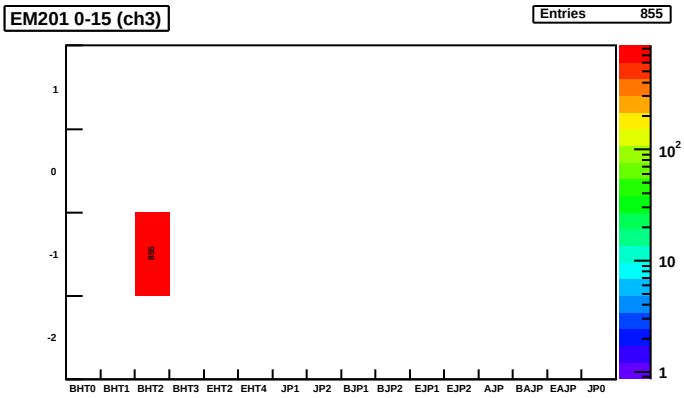

VT201 0-15 (ch1)
Entries 8686384
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2066518
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

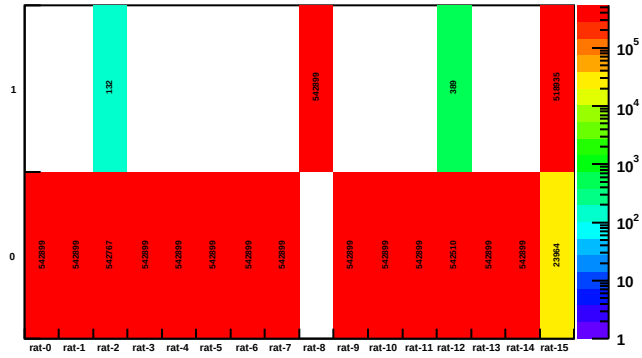

Unused (ch2)
Entries 8686384

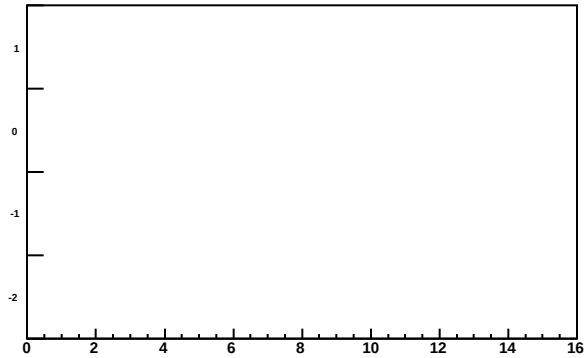

Entries 0


EM201 0-15 (ch3)
Entries 8686384
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

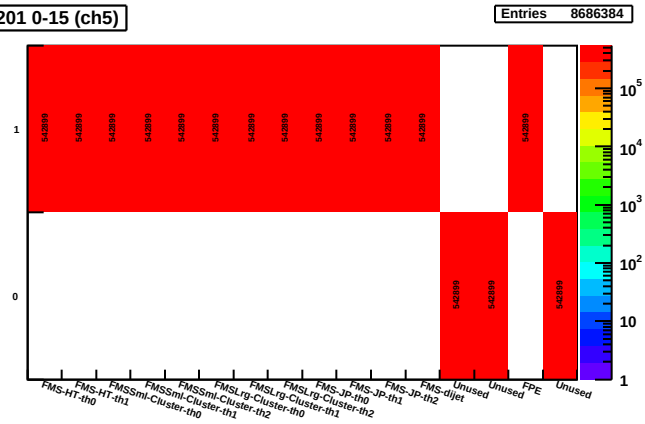

EM201 0-15 (ch3)
Entries 855
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

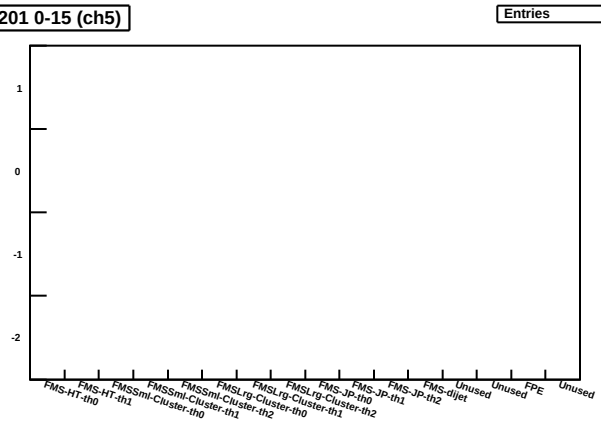




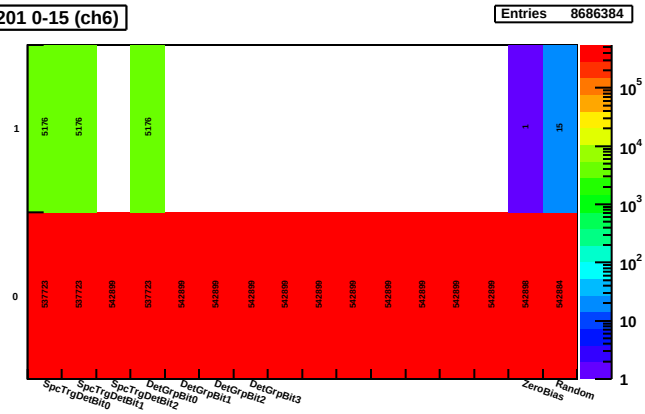
FP201 0-15 (ch5)

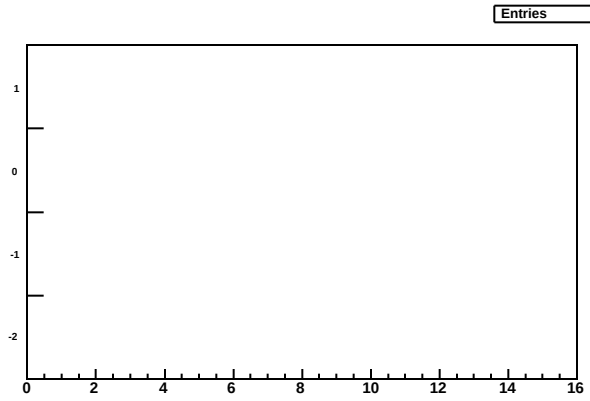
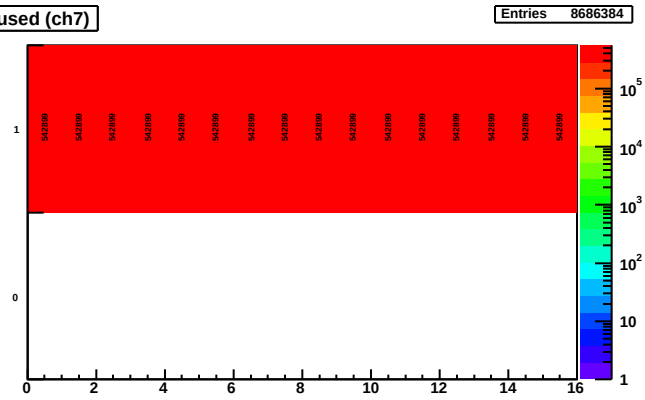
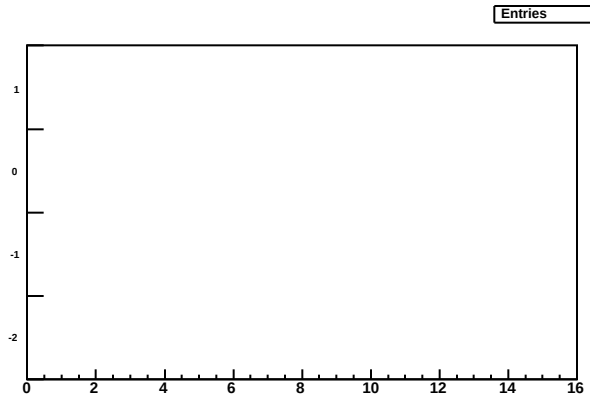


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)