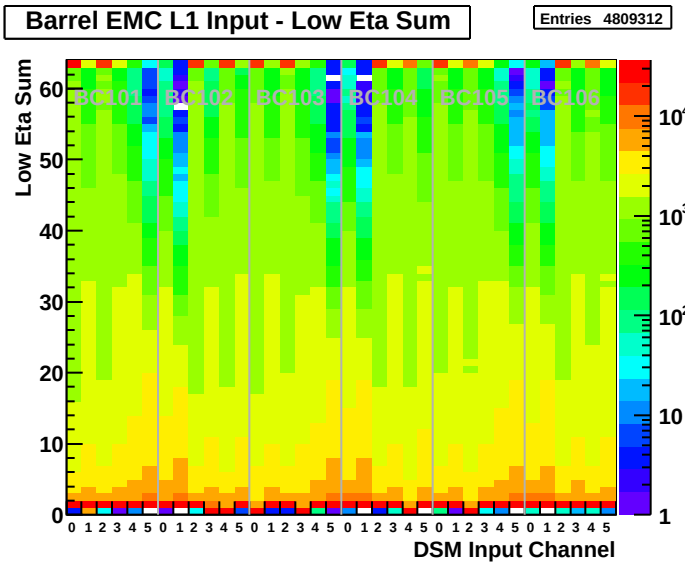
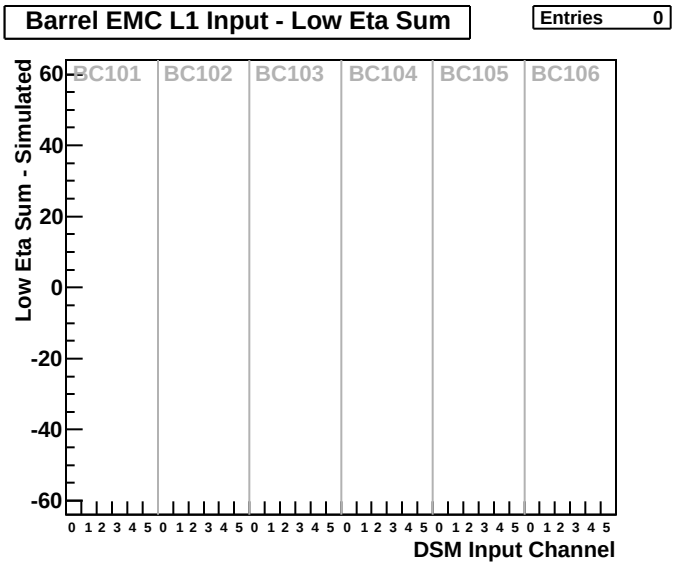
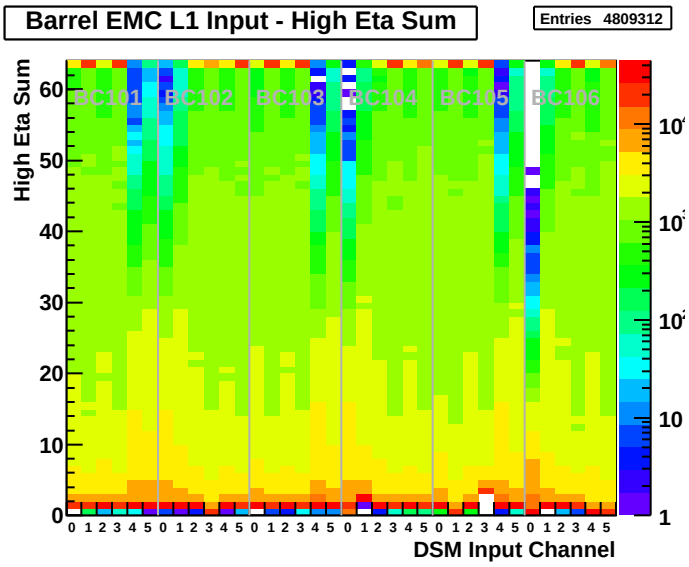
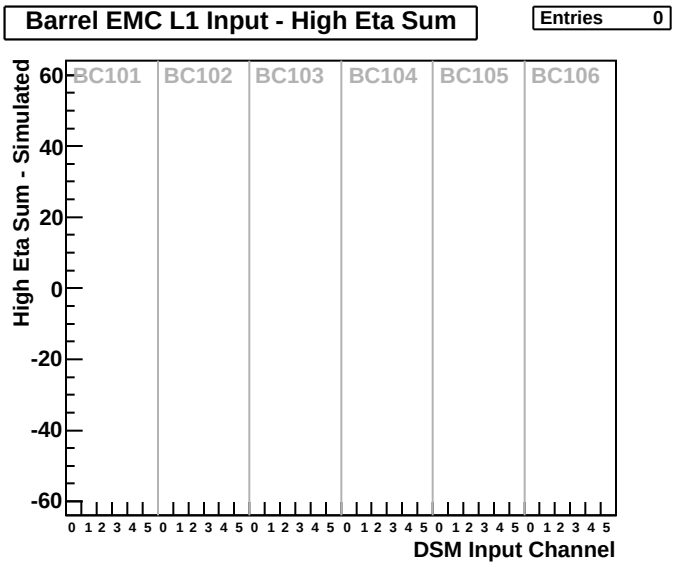
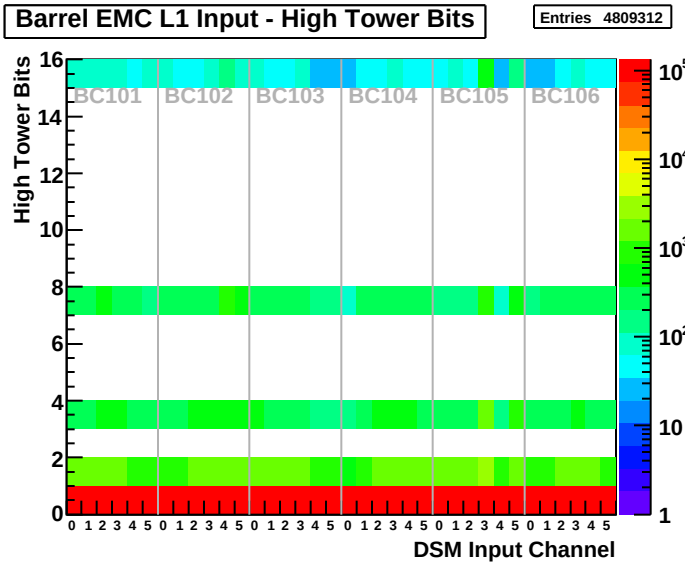
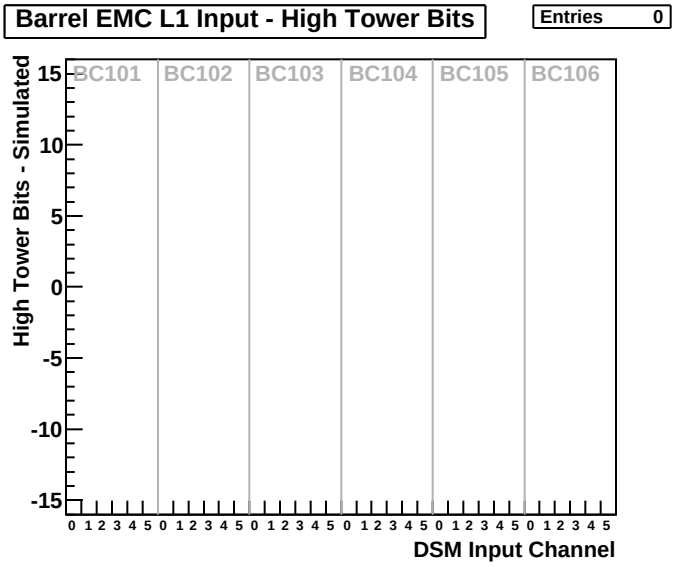

Barrel EMC L1 Input - Low Eta Sum
Entries 4809312
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

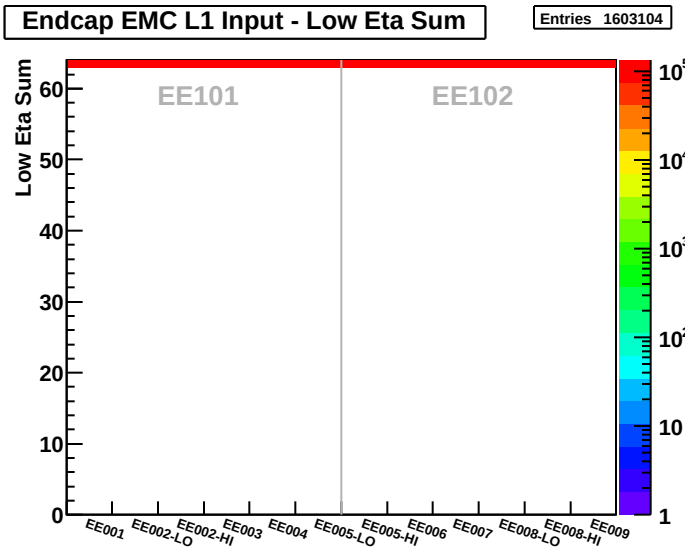

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

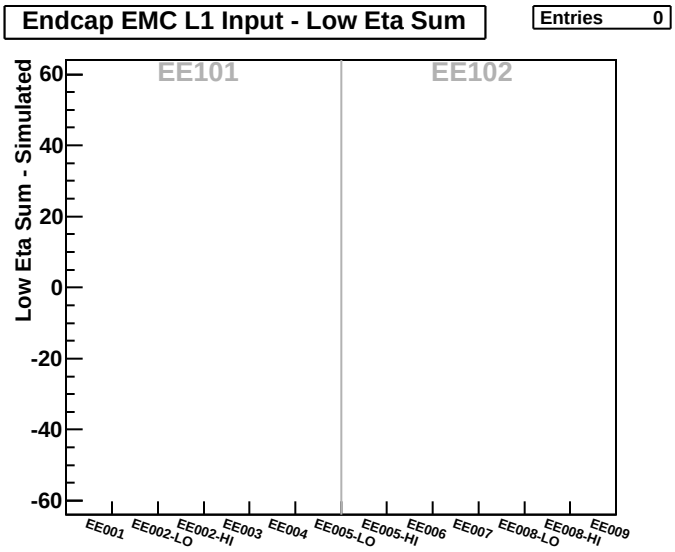

Barrel EMC L1 Input - High Eta Sum
Entries 4809312
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

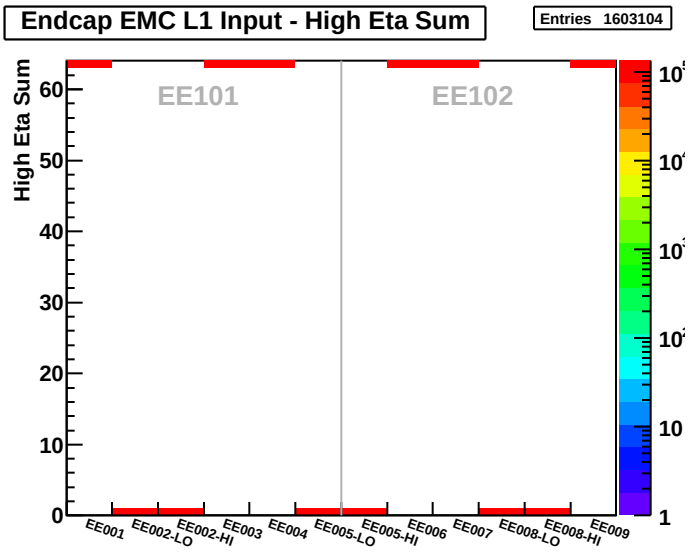

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

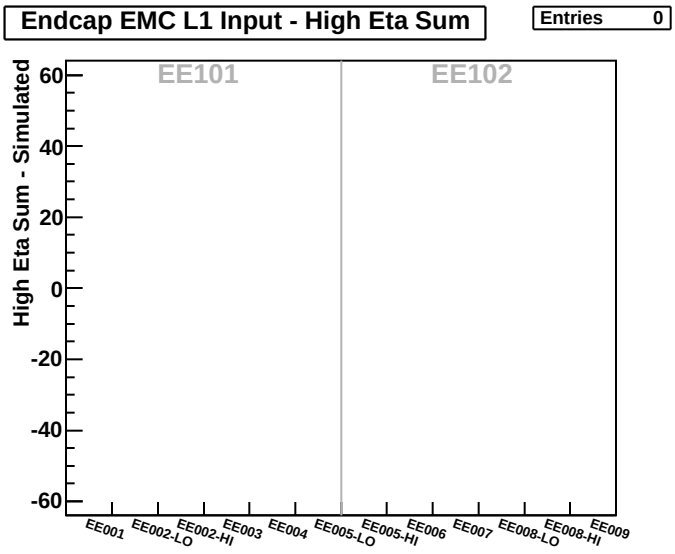

Barrel EMC L1 Input - High Tower Bits
Entries 4809312
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

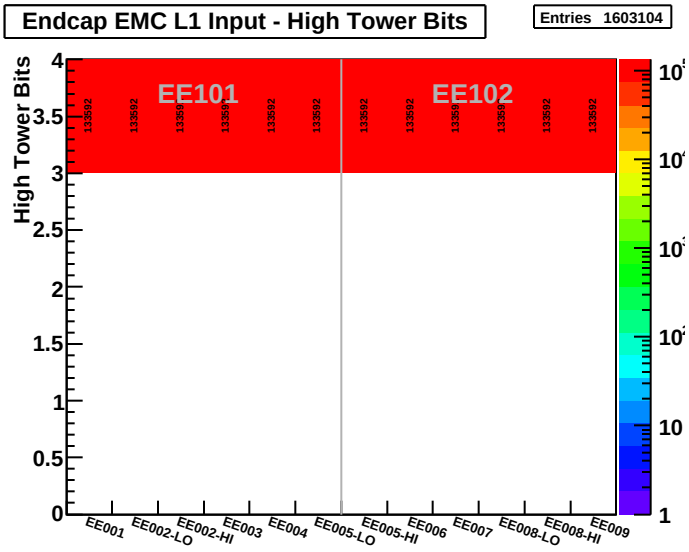

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

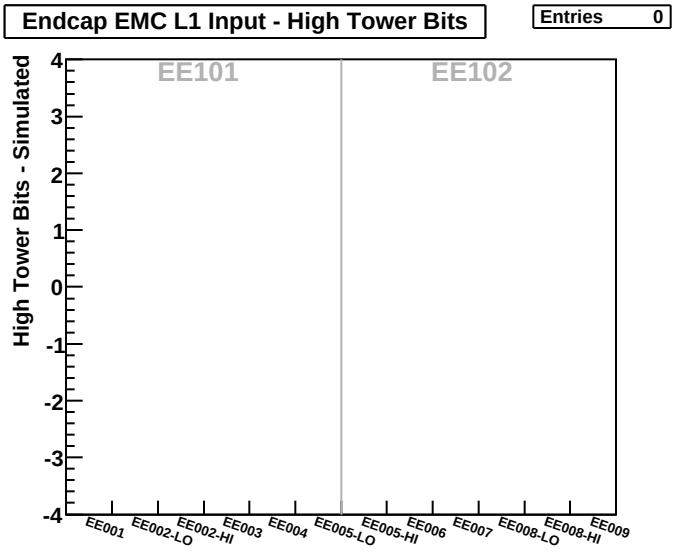

Endcap EMC L1 Input - Low Eta Sum
Entries 1603104
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

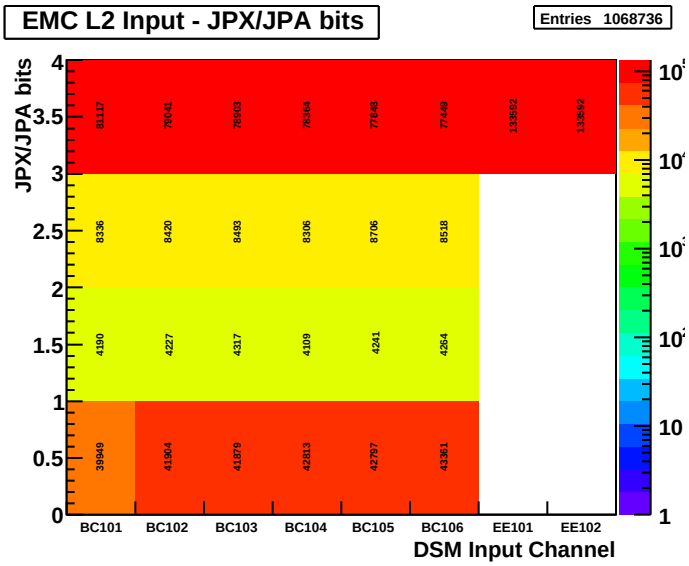

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

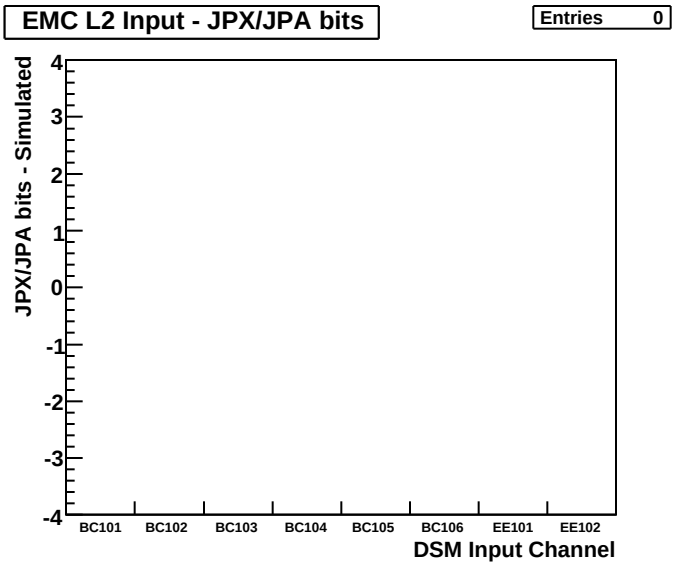

Endcap EMC L1 Input - High Eta Sum
Entries 1603104
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

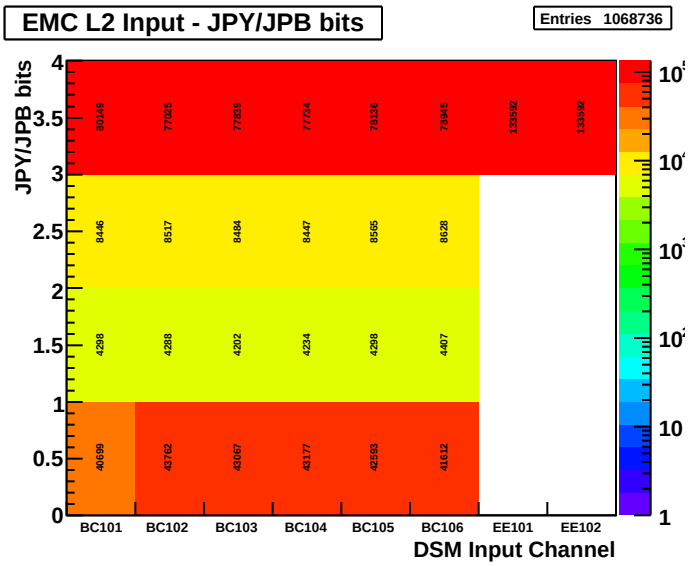

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

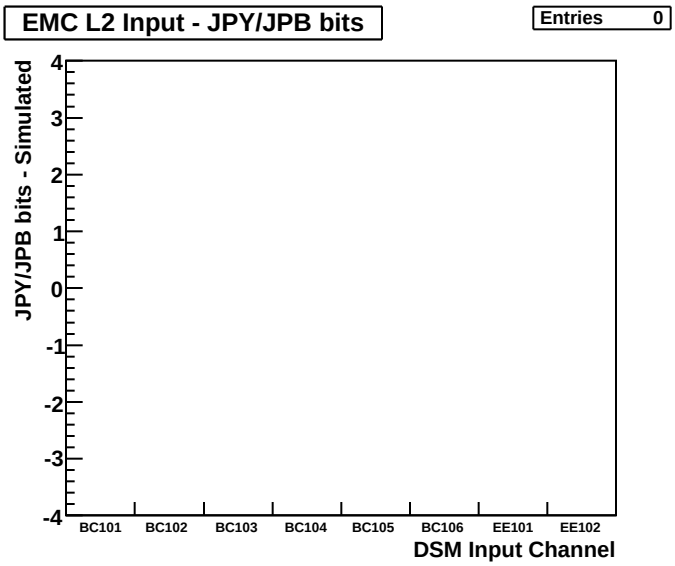

Endcap EMC L1 Input - High Tower Bits
Entries 1603104
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

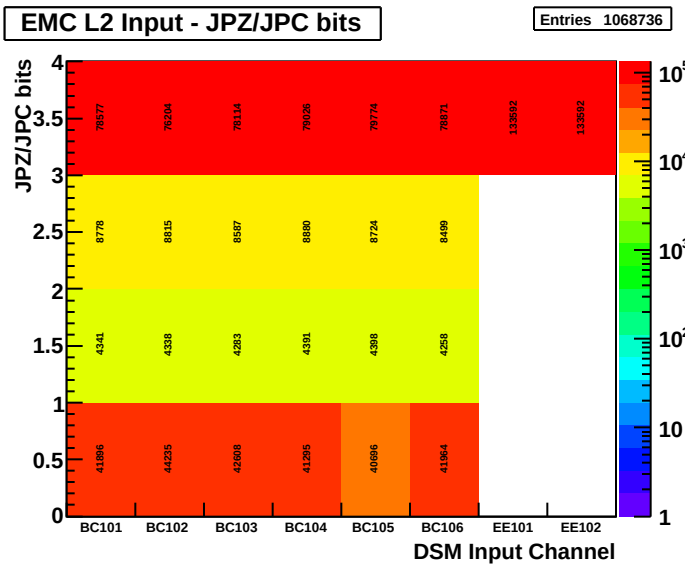

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

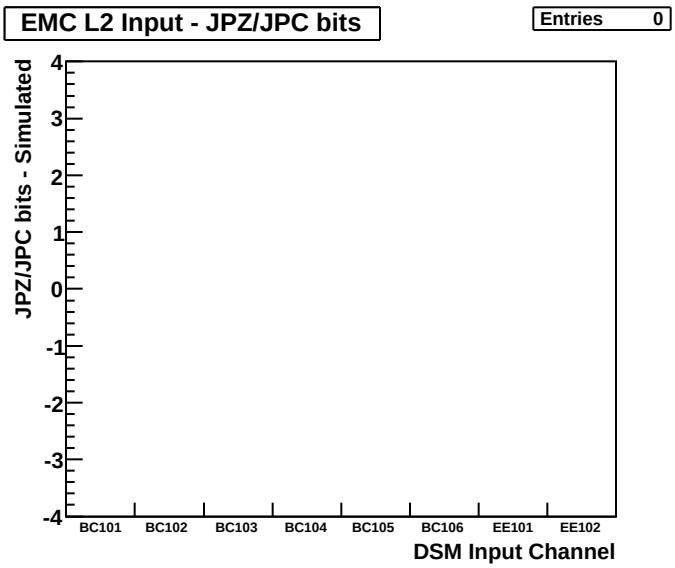

EMC L2 Input - JPX/JPA bits
Entries 1068736
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
81117 79041 78903 78364 77848 77449 133592 133592
8336 8420 8493 8306 8706 8518
4190 4227 4317 4109 4241 4264
39949 41904 41879 42813 42797 43361

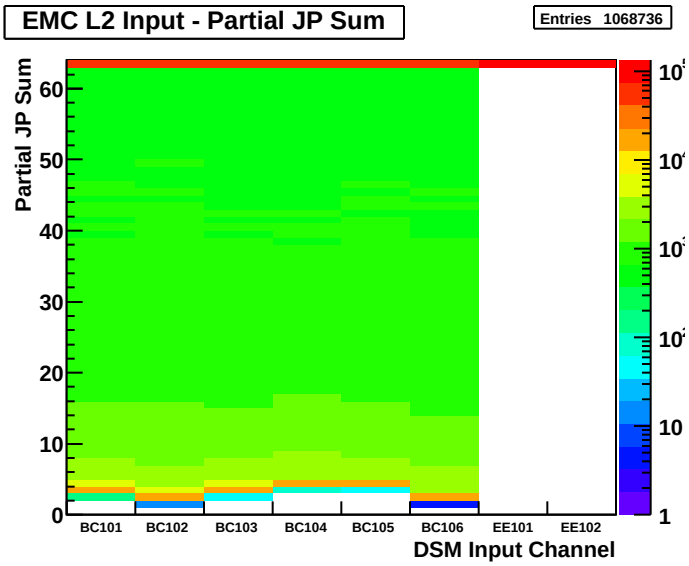

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

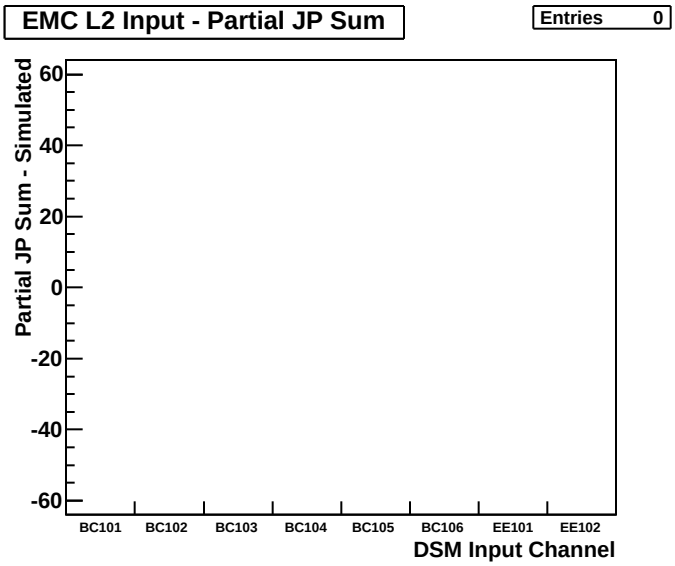

EMC L2 Input - JPY/JPB bits
Entries 1068736
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
80149 77025 77839 77734 78136 78945 133592 133592
8446 8517 8494 8447 8565 8628
4298 4288 4202 4234 4298 4407
40699 43762 43067 43177 42593 41612

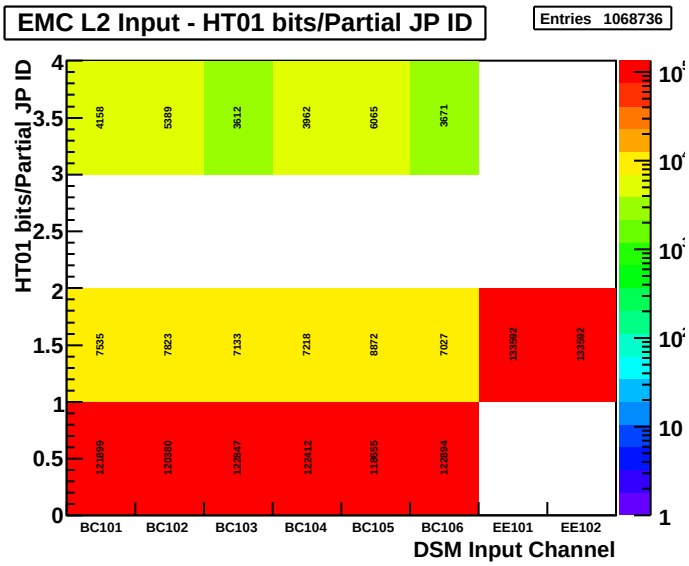

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

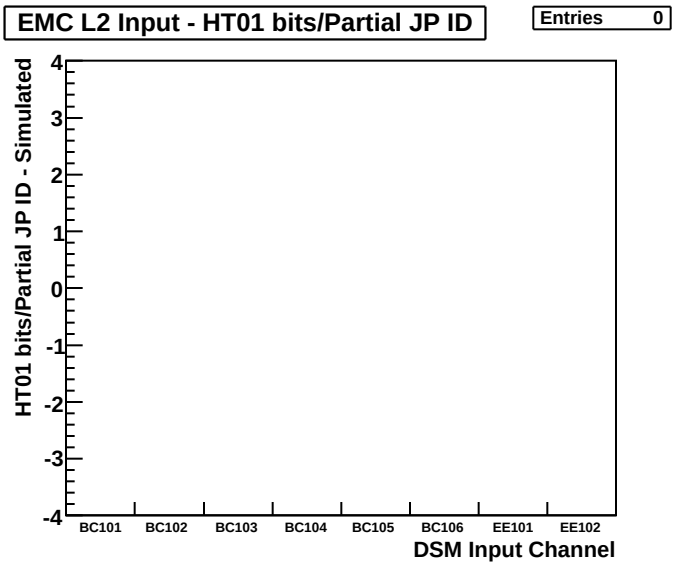

EMC L2 Input - JPZ/JPC bits
Entries 1068736
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
78577 76204 78114 79026 79774 78871 133592 133592
8778 8815 8587 8880 8724 8499
4341 4338 4283 4391 4398 4258
41886 44235 42608 41295 40696 41964

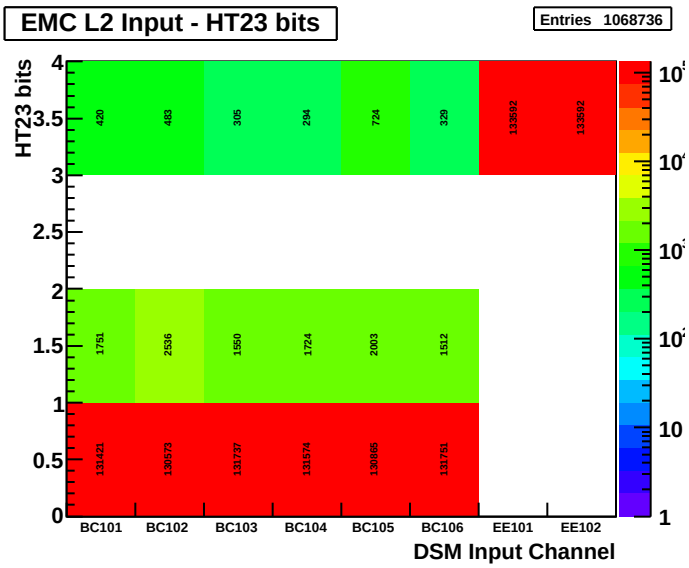

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

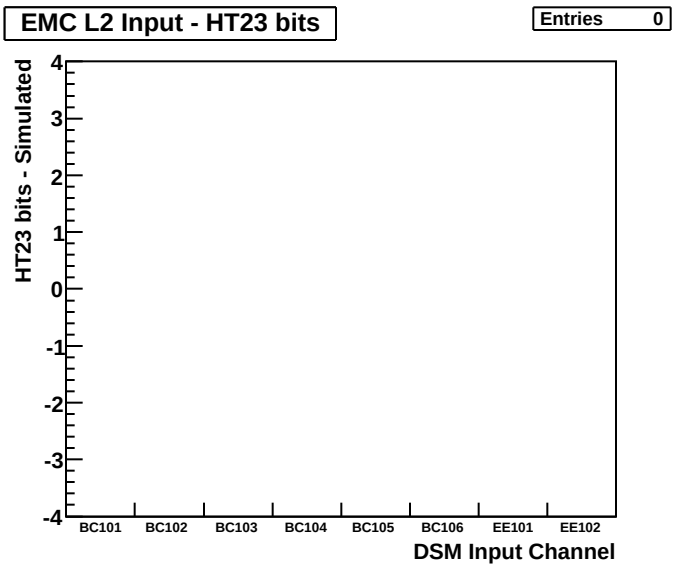

EMC L2 Input - Partial JP Sum
Entries 1068736
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

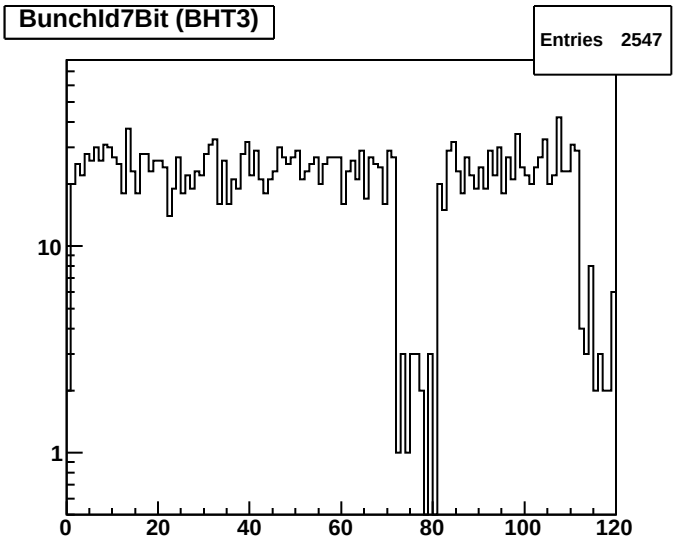

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

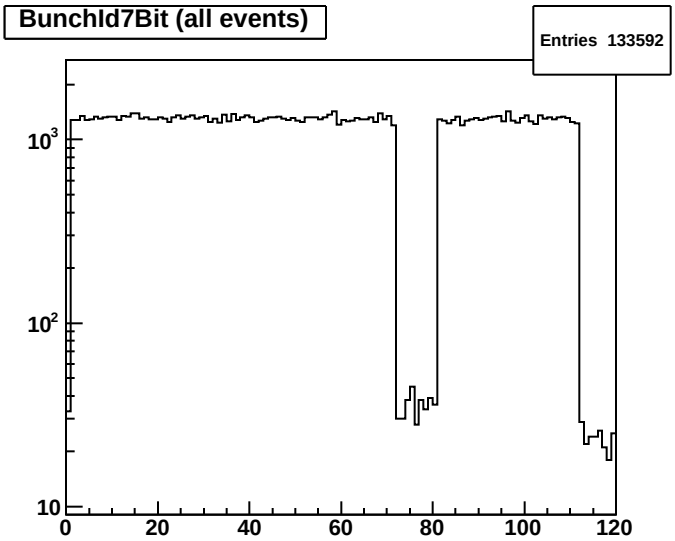

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1068736
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

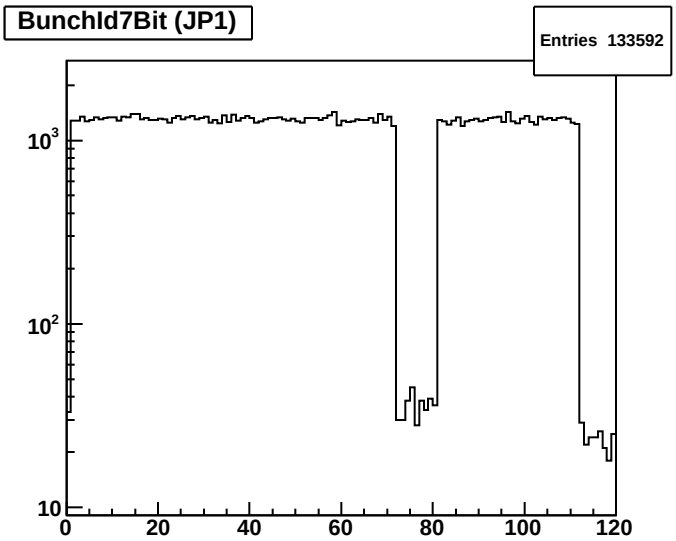

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

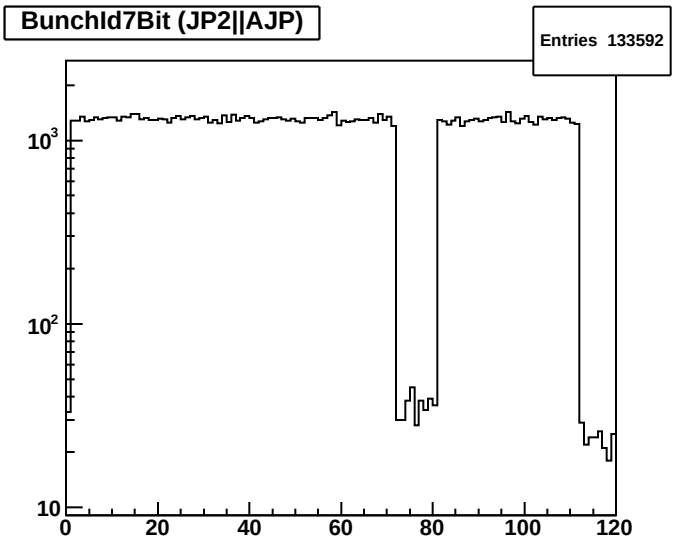

EMC L2 Input - HT23 bits
Entries 1068736
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

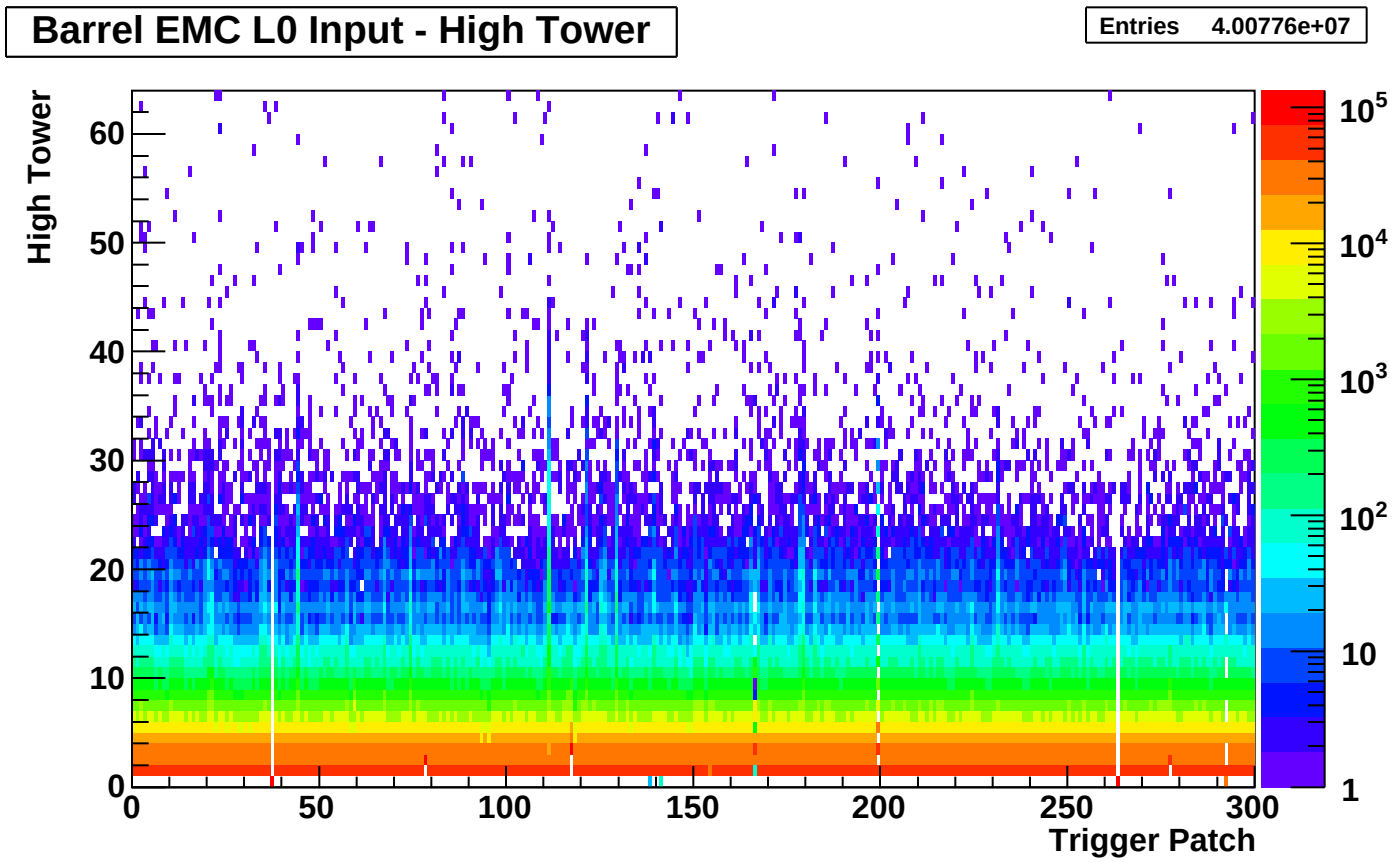

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

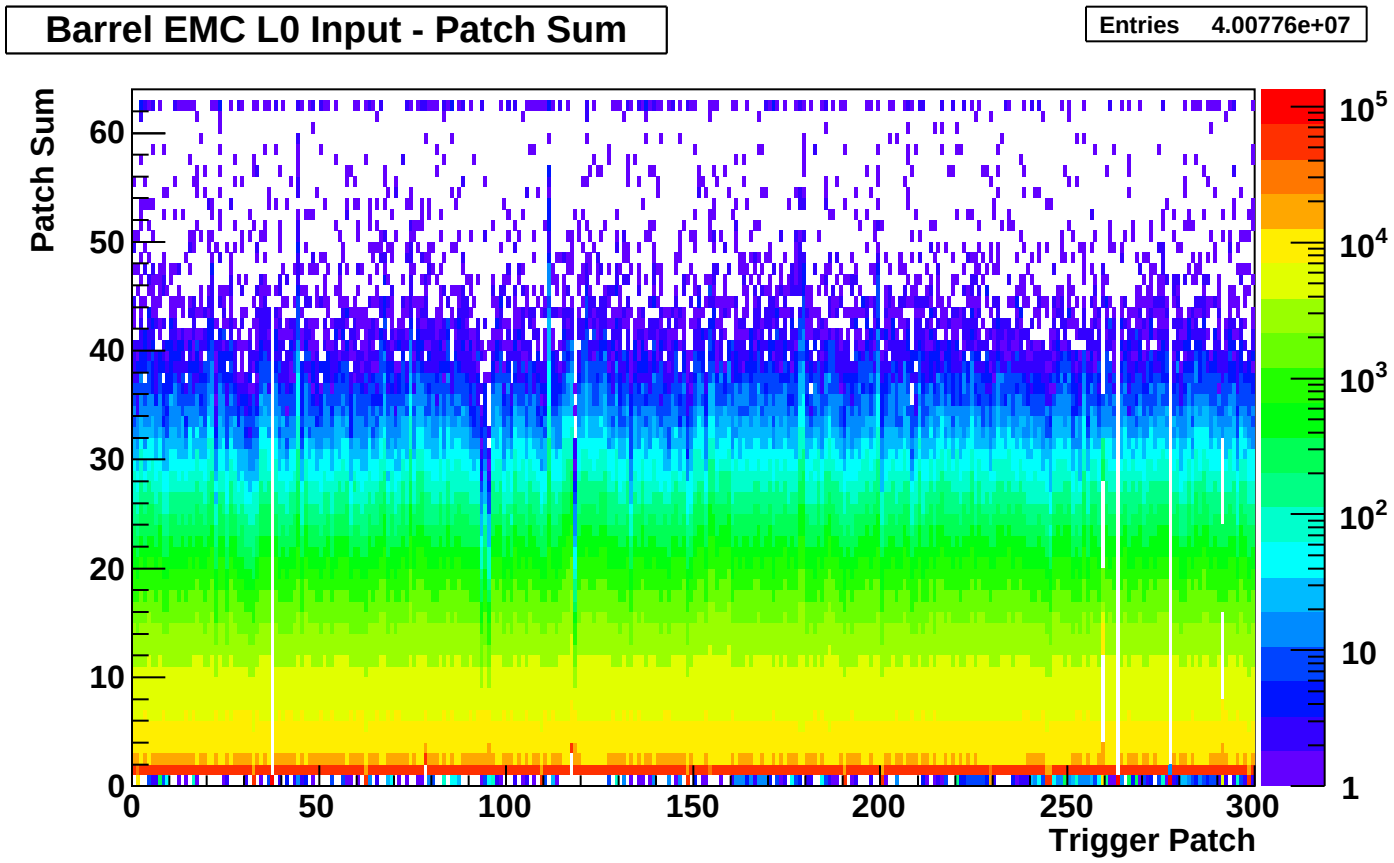

BunchId7Bit (BHT3)
Entries 2547
10
1
0
20
40
60
80
100
120

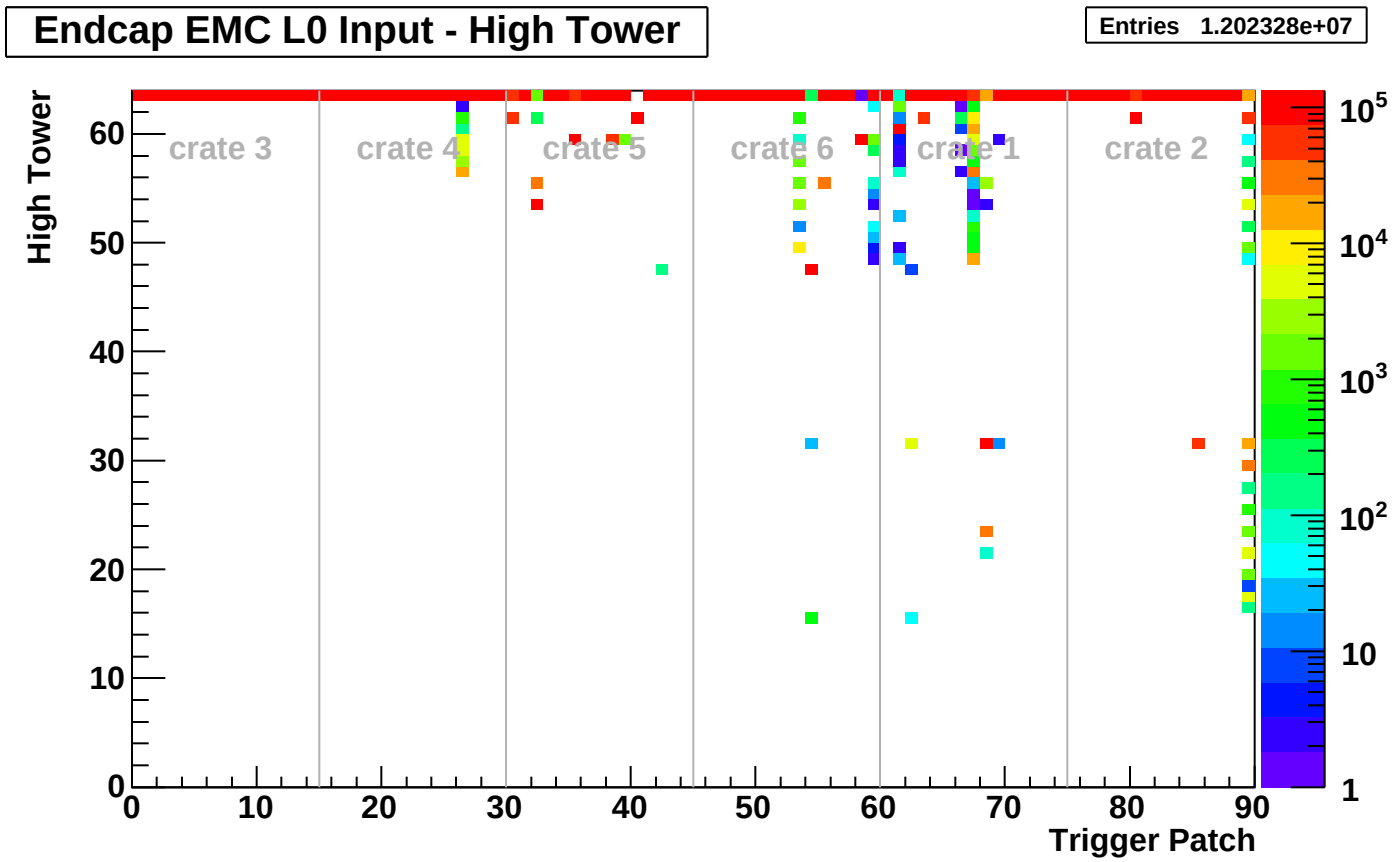

BunchId7Bit (all events)
Entries 133592
10^3
10^2
10
0
20
40
60
80
100
120

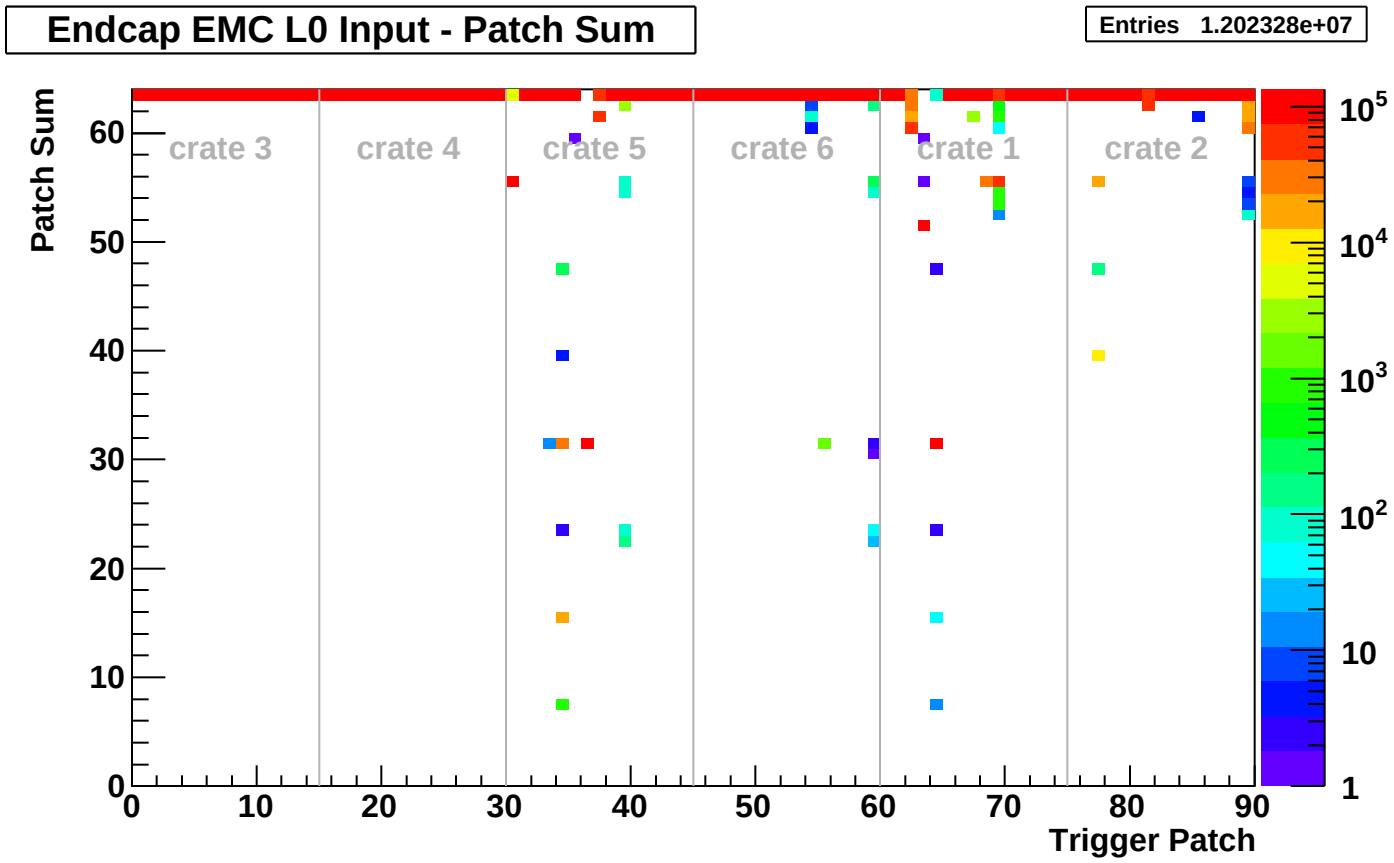

BunchId7Bit (JP1)
Entries 133592
10^3
10^2
10
0
20
40
60
80
100
120

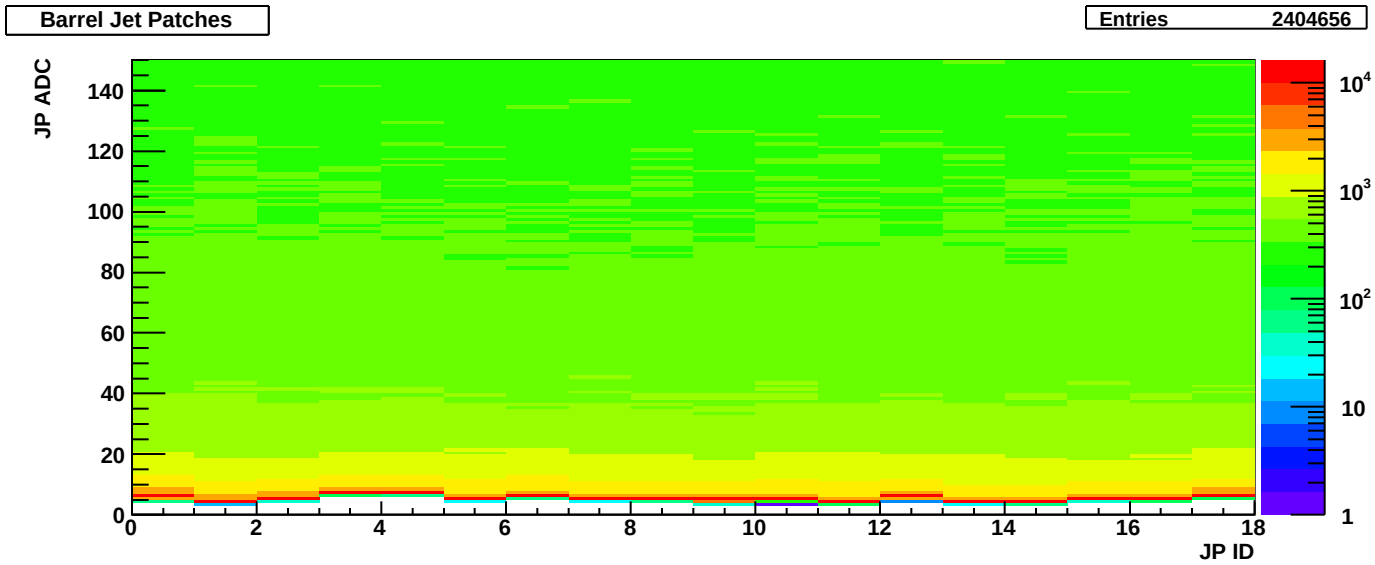

BunchId7Bit (JP2||AJP)
Entries 133592
10^3
10^2
10
0
20
40
60
80
100
120

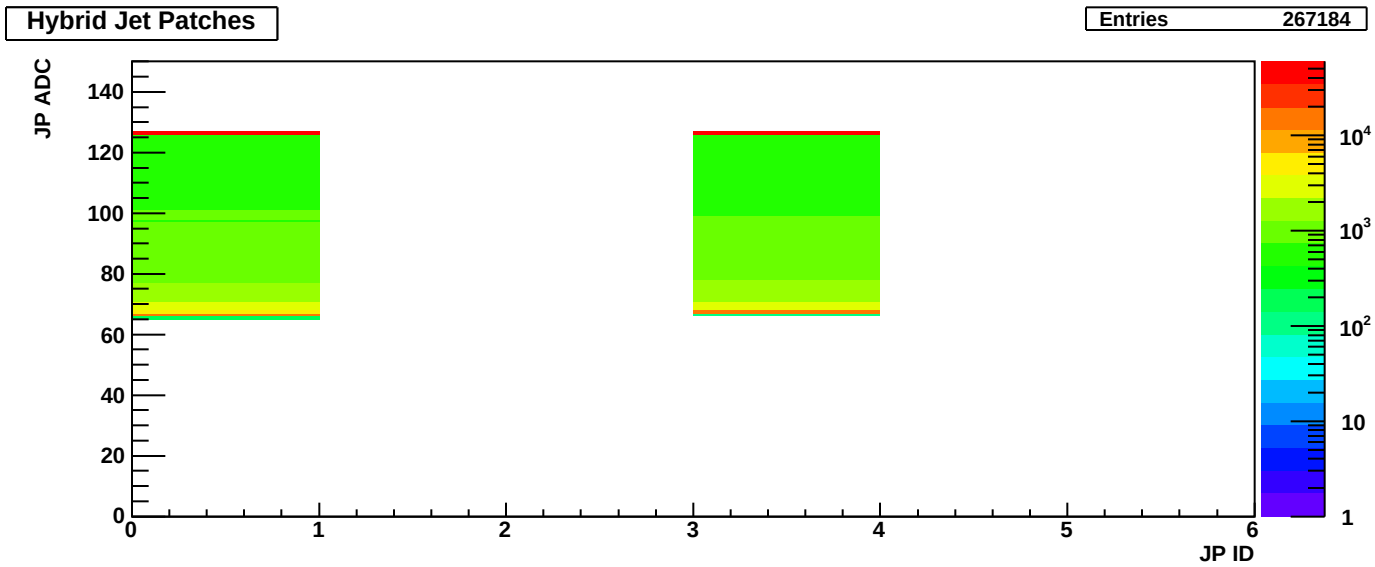

Barrel EMC L0 Input - High Tower
Entries 4.00776e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

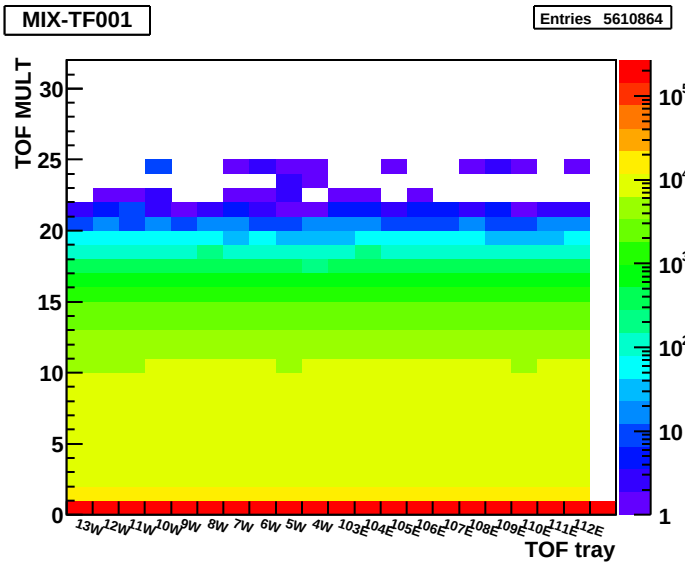

Barrel EMC L0 Input - Patch Sum
Entries 4.00776e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

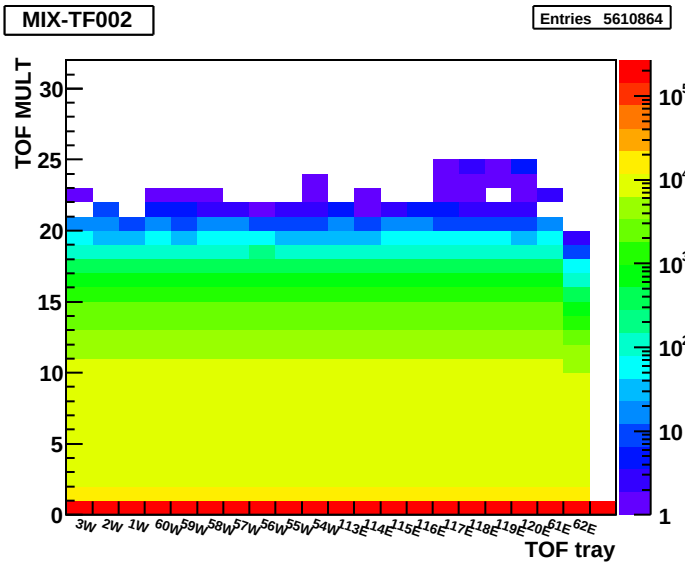

Endcap EMC L0 Input - High Tower
Entries 1.202328e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

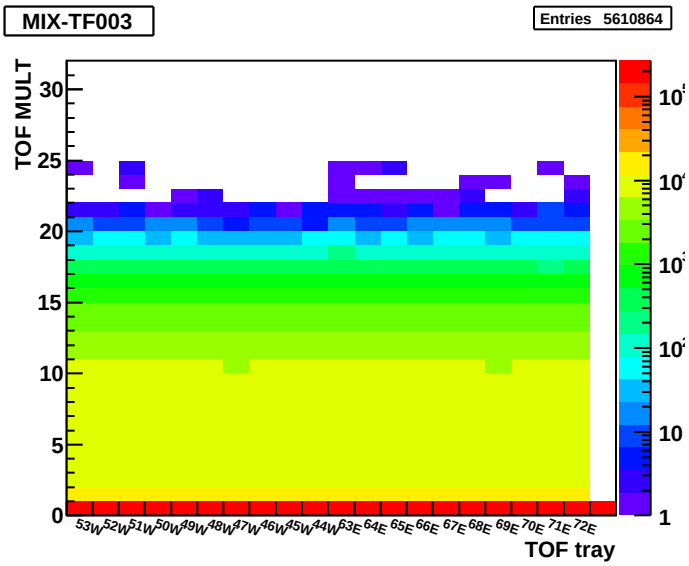

Endcap EMC L0 Input - Patch Sum
Entries 1.202328e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

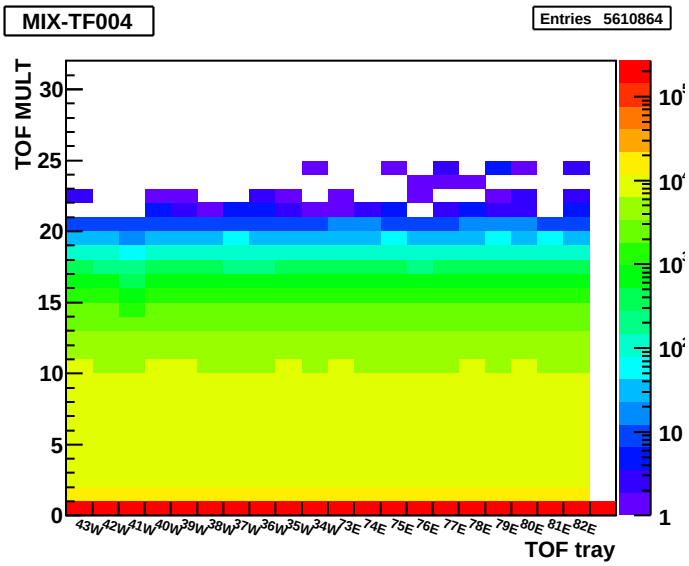

Barrel Jet Patches
Entries 2404656
JP ADC
JP ID

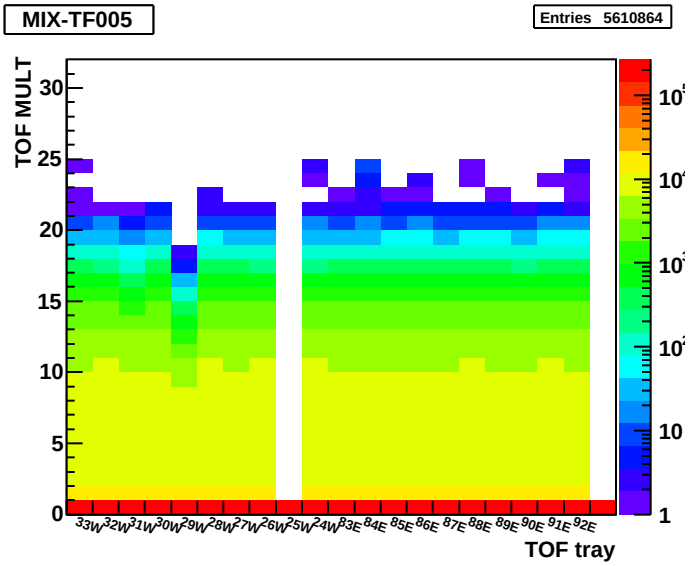

Hybrid Jet Patches
Entries 267184
JP ADC
JP ID

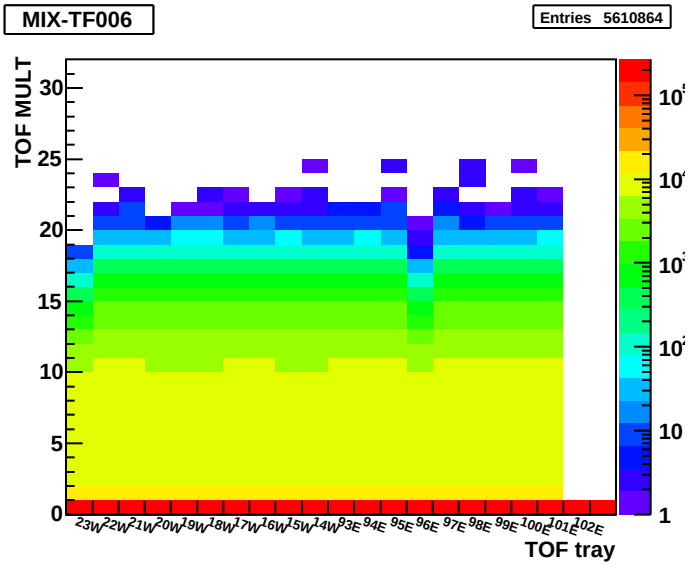

MIX-TF001
Entries 5610864
TOF MULT
TOF tray

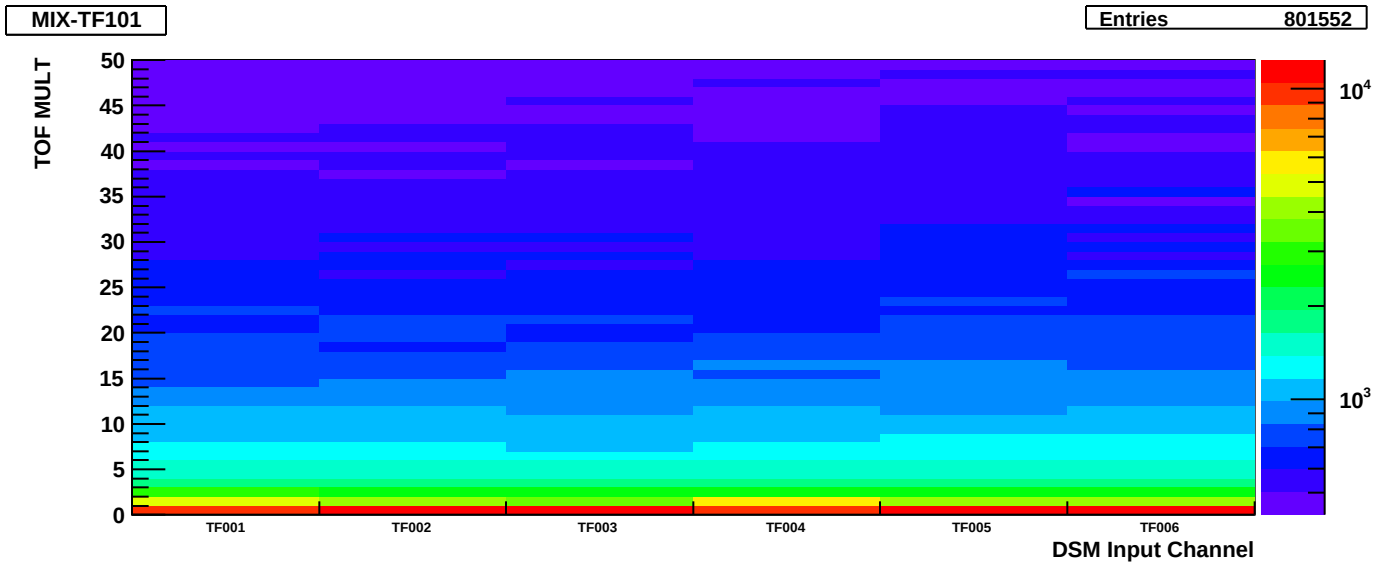

MIX-TF002
Entries 5610864
TOF MULT
TOF tray

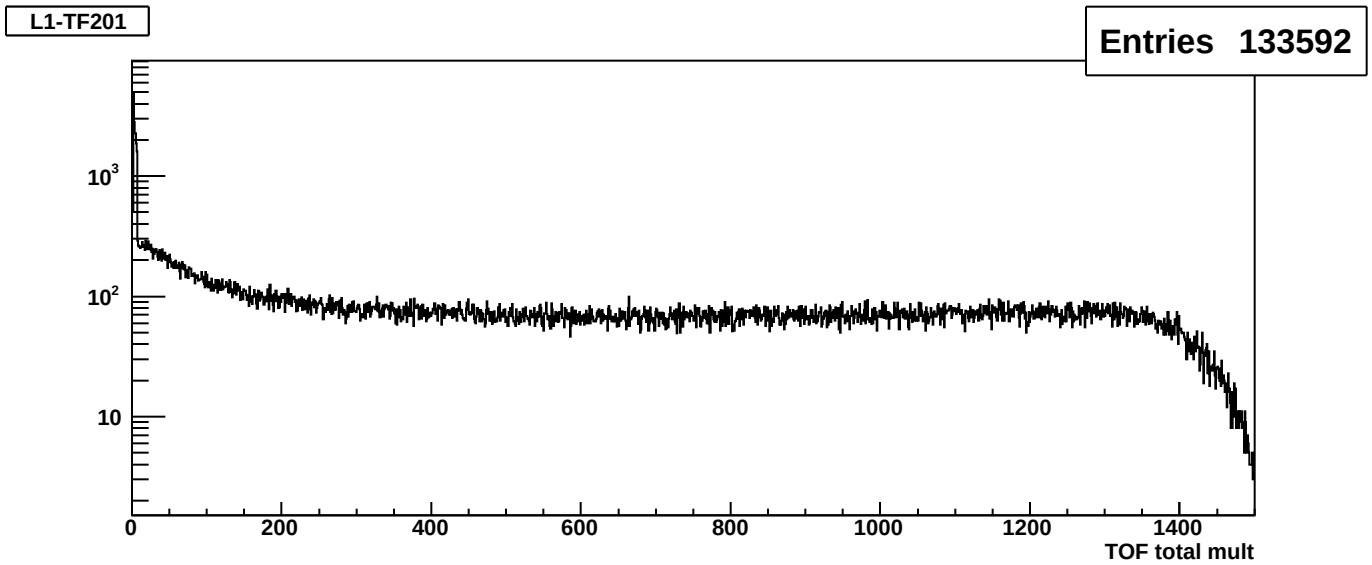

MIX-TF003
Entries 5610864
TOF MULT
TOF tray

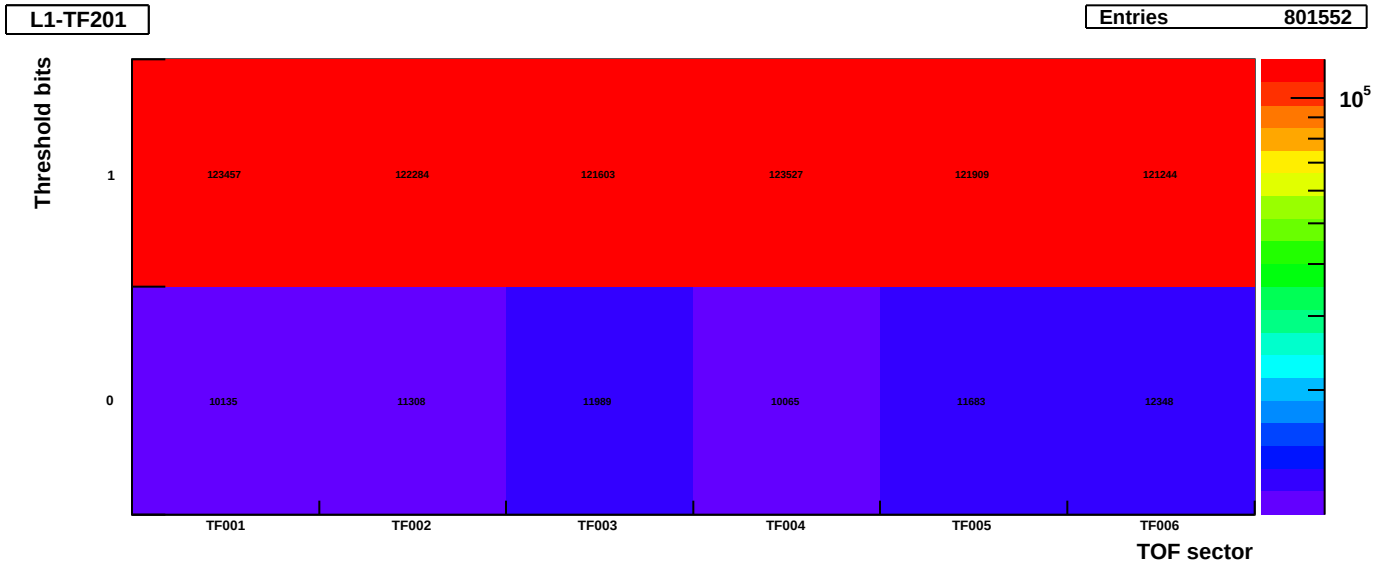

MIX-TF004
Entries 5610864
TOF MULT
TOF tray

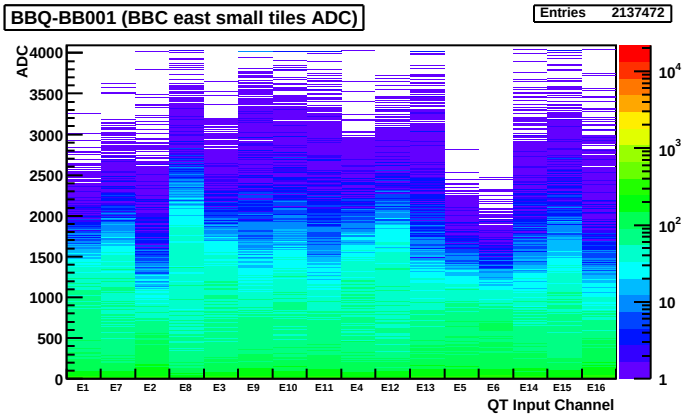

MIX-TF005
Entries 5610864
TOF MULT
TOF tray

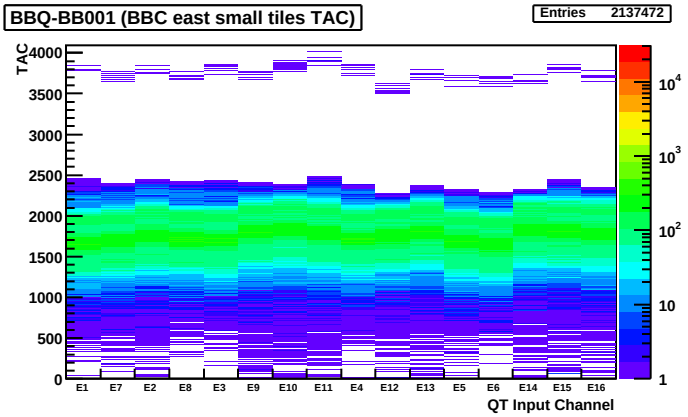

MIX-TF006
Entries 5610864
TOF MULT
TOF tray

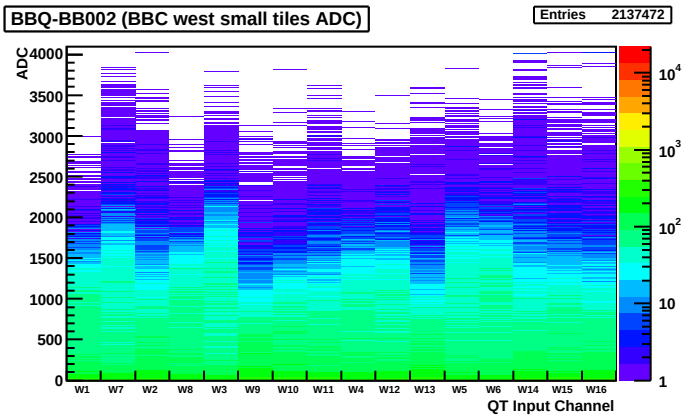

MIX-TF101
Entries 801552
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

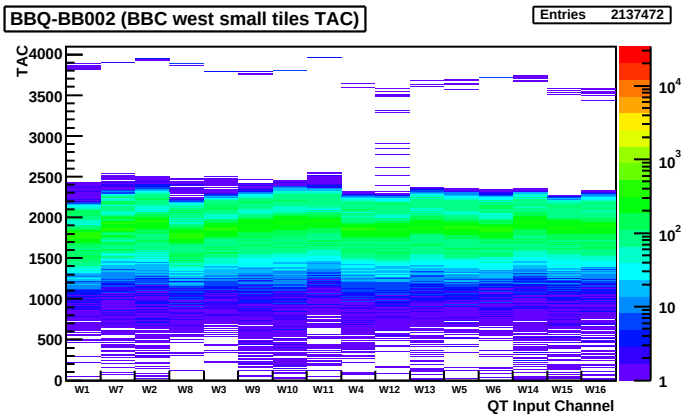

L1-TF201
Entries 133592
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

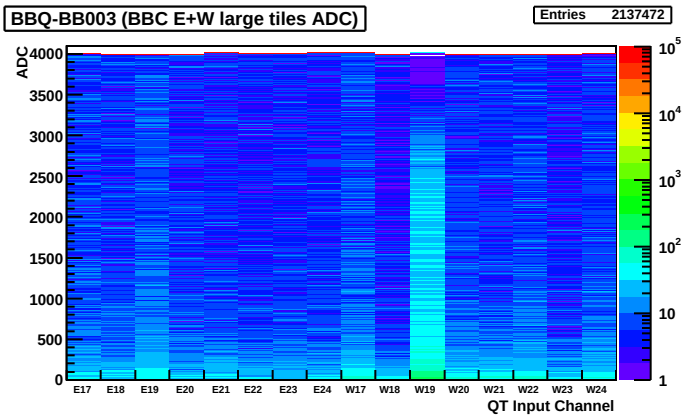

L1-TF201
Entries 801552
Threshold bits
1
0
123457
122284
121603
123527
121909
121244
10135
11308
11989
10065
11683
12348
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

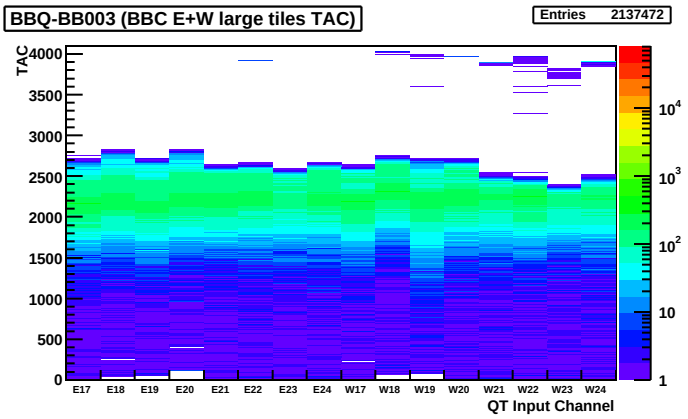

BBQ-BB001 (BBC east small tiles ADC)
Entries 2137472
ADC
QT Input Channel

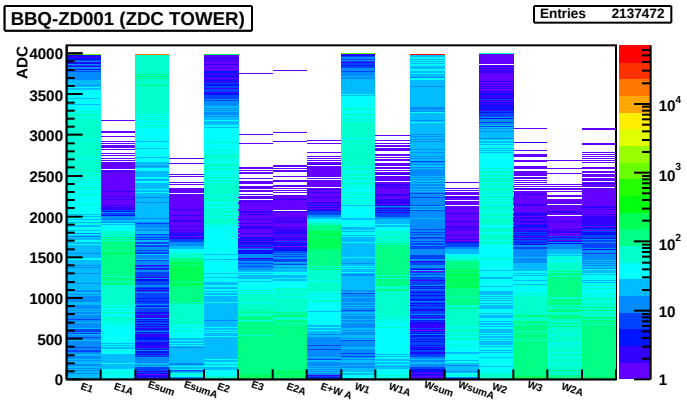

BBQ-BB001 (BBC east small tiles TAC)
Entries 2137472
TAC
QT Input Channel

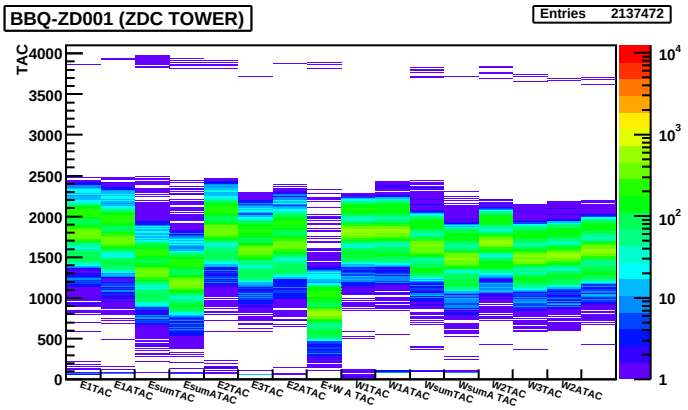

BBQ-BB002 (BBC west small tiles ADC)
Entries 2137472
ADC
QT Input Channel

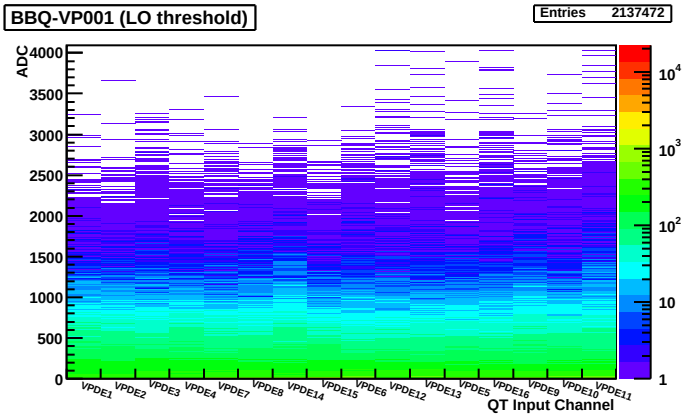

BBQ-BB002 (BBC west small tiles TAC)
Entries 2137472
TAC
QT Input Channel

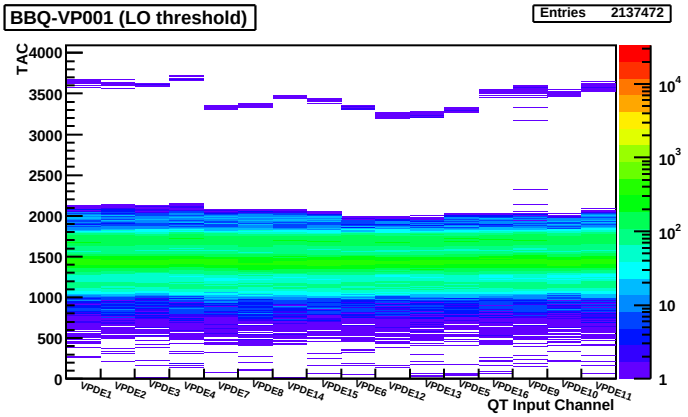

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2137472
ADC
QT Input Channel

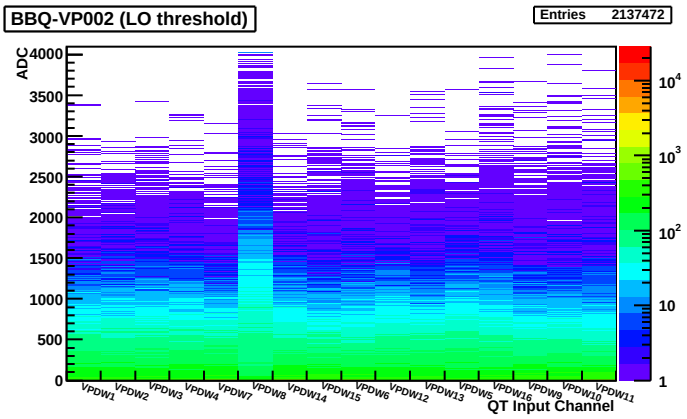

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2137472
TAC
QT Input Channel

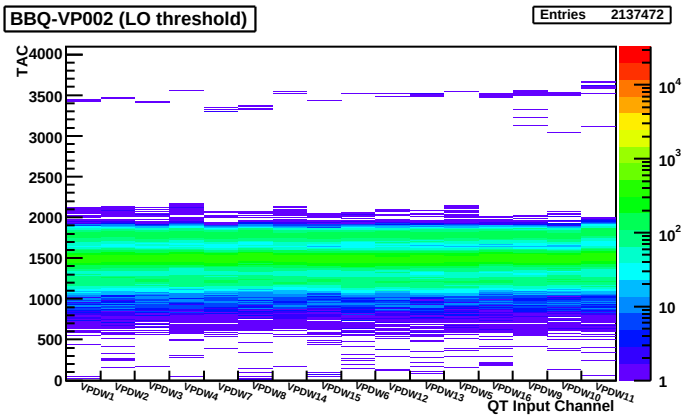

BBQ-ZD001 (ZDC TOWER)
Entries 2137472
ADC

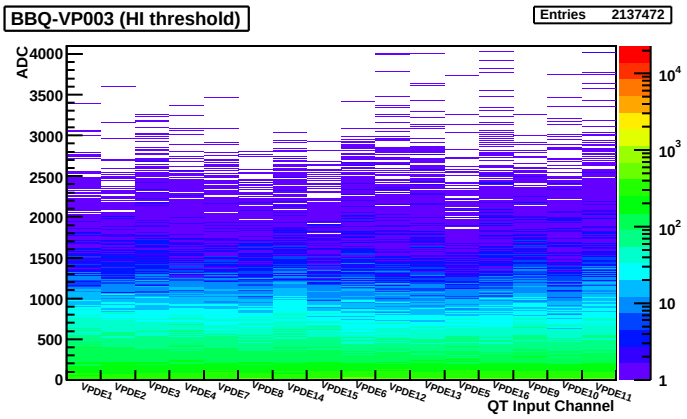

BBQ-ZD001 (ZDC TOWER)
Entries 2137472
TAC

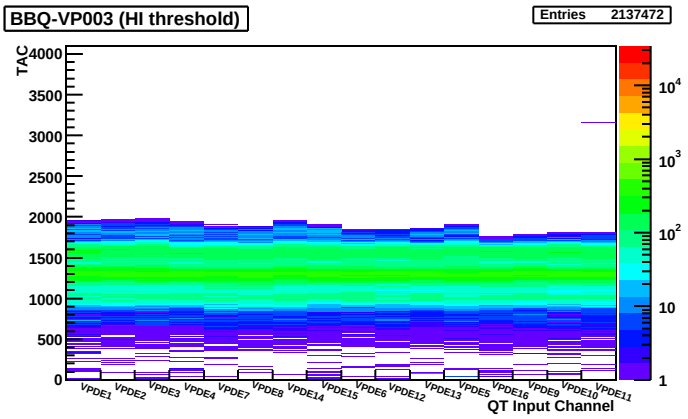

BBQ-VP001 (LO threshold)
Entries 2137472
ADC
QT Input Channel

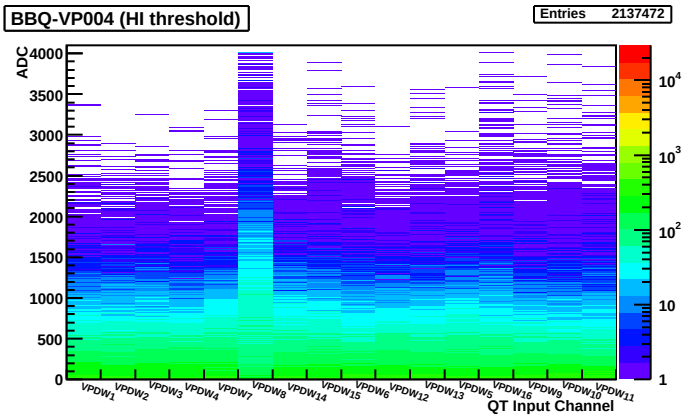

BBQ-VP001 (LO threshold)
Entries 2137472
TAC
QT Input Channel

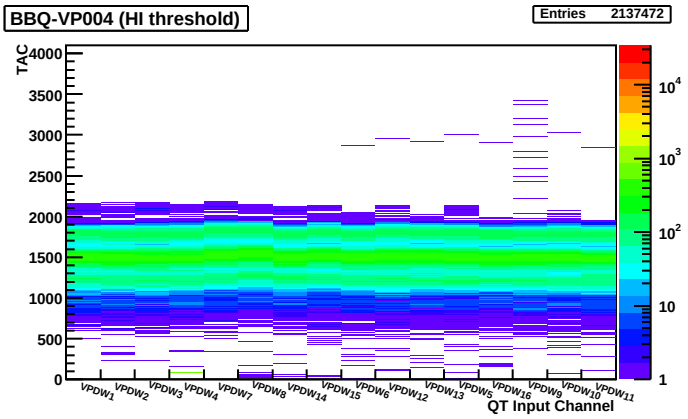

BBQ-VP002 (LO threshold)
Entries 2137472
ADC
QT Input Channel

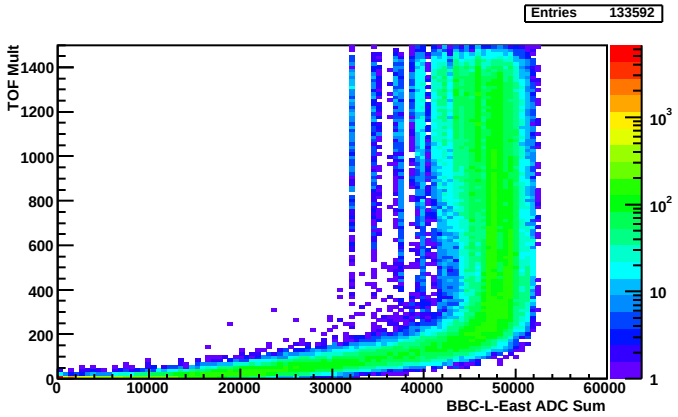

BBQ-VP002 (LO threshold)
Entries 2137472
TAC
QT Input Channel

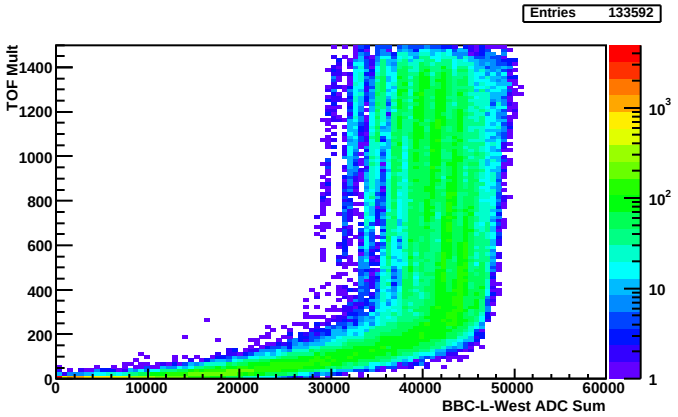

BBQ-VP003 (HI threshold)
Entries 2137472
ADC
QT Input Channel

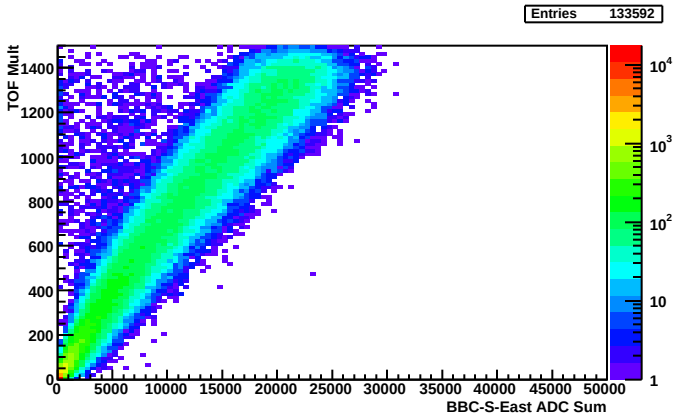

BBQ-VP003 (HI threshold)
Entries 2137472
TAC
QT Input Channel

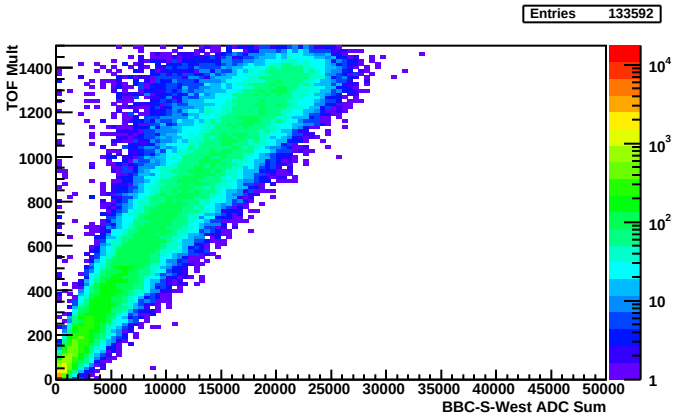

BBQ-VP004 (HI threshold)
Entries 2137472
ADC
QT Input Channel

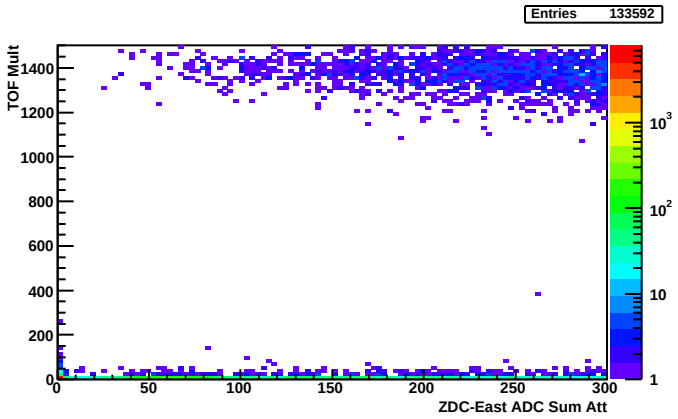

BBQ-VP004 (HI threshold)
Entries 2137472
TAC
QT Input Channel

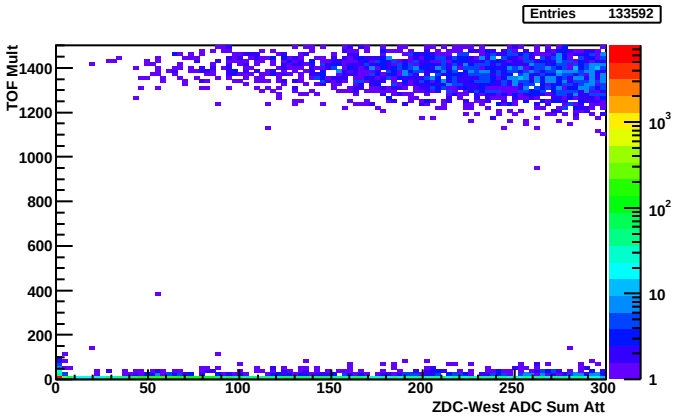

Entries 133592
TOF Mult
BBC-L-East ADC Sum


Entries 133592
TOF Mult
BBC-L-West ADC Sum


Entries 133592
TOF Mult
BBC-S-East ADC Sum


Entries 133592
TOF Mult
BBC-S-West ADC Sum


Entries 133592
TOF Mult
ZDC-East ADC Sum Att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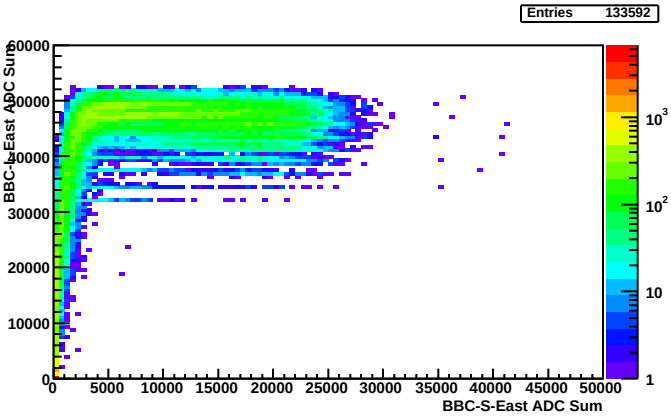
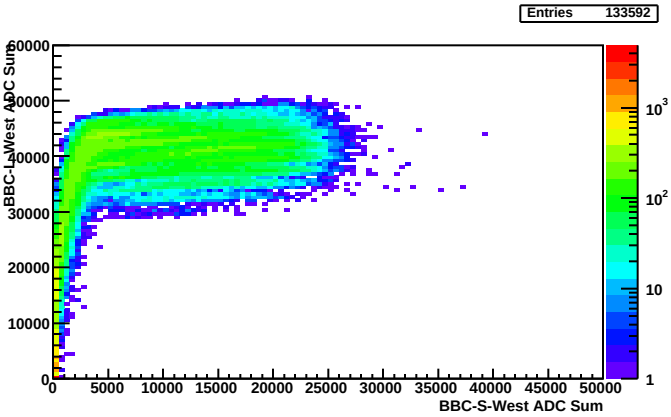
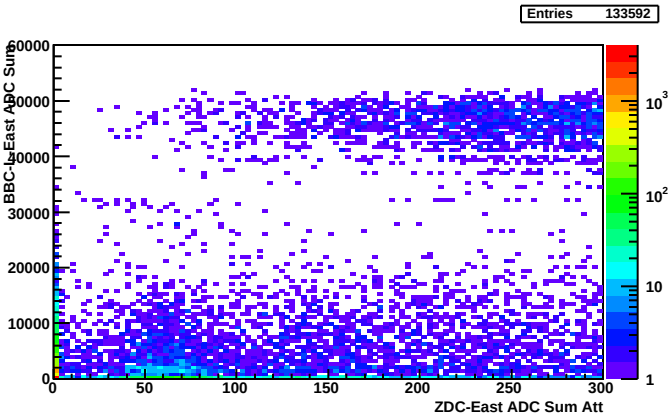
TOF Mult
ZDC-West ADC Sum Att


Entries 133592
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 133592
BBC-L-West ADC Sum
BBC-S-West ADC Sum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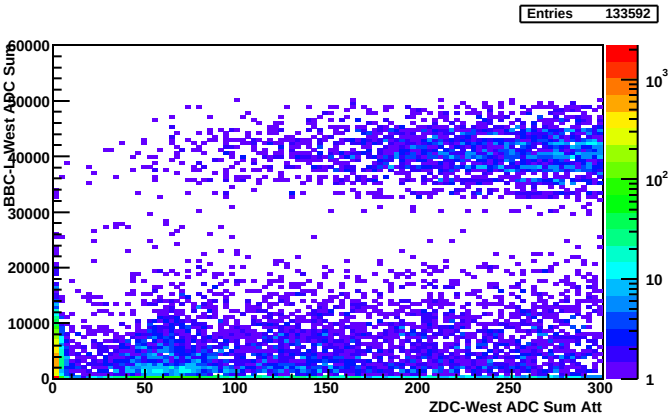
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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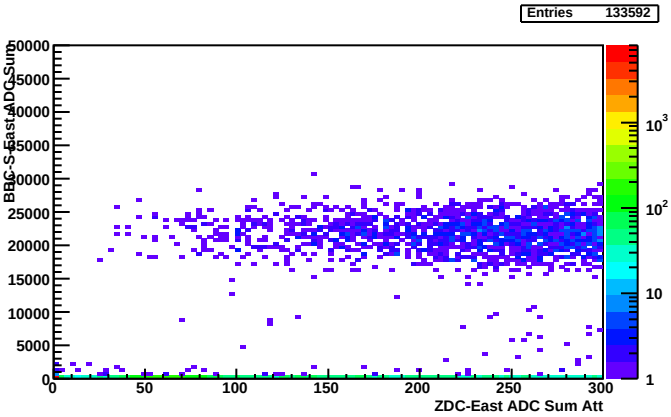
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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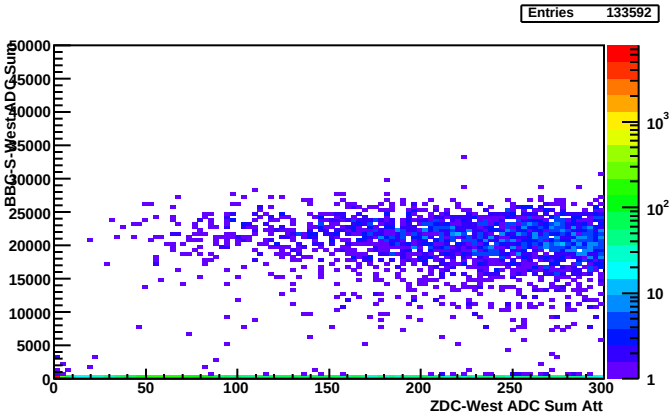
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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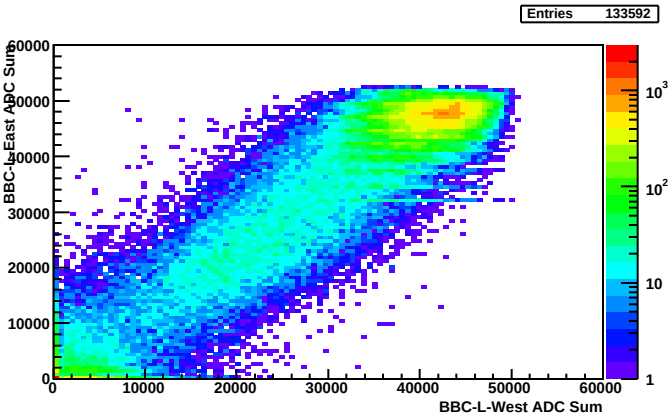
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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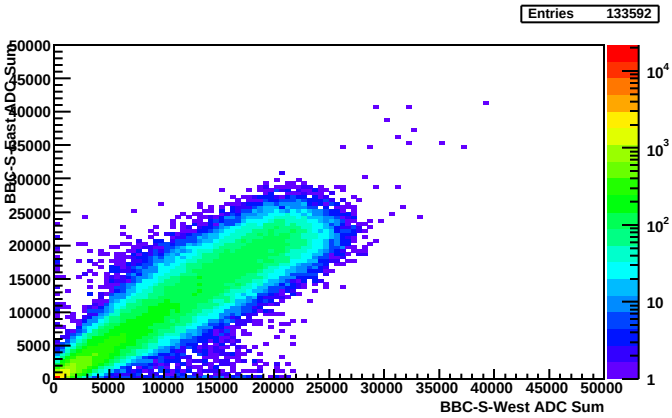
BBC-L-East ADC Sum
BBC-L-West ADC Sum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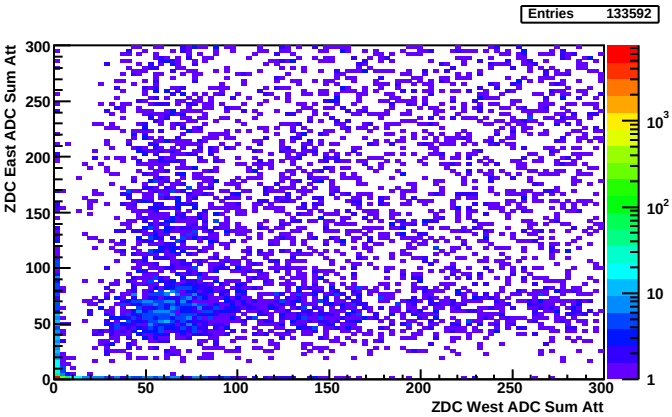
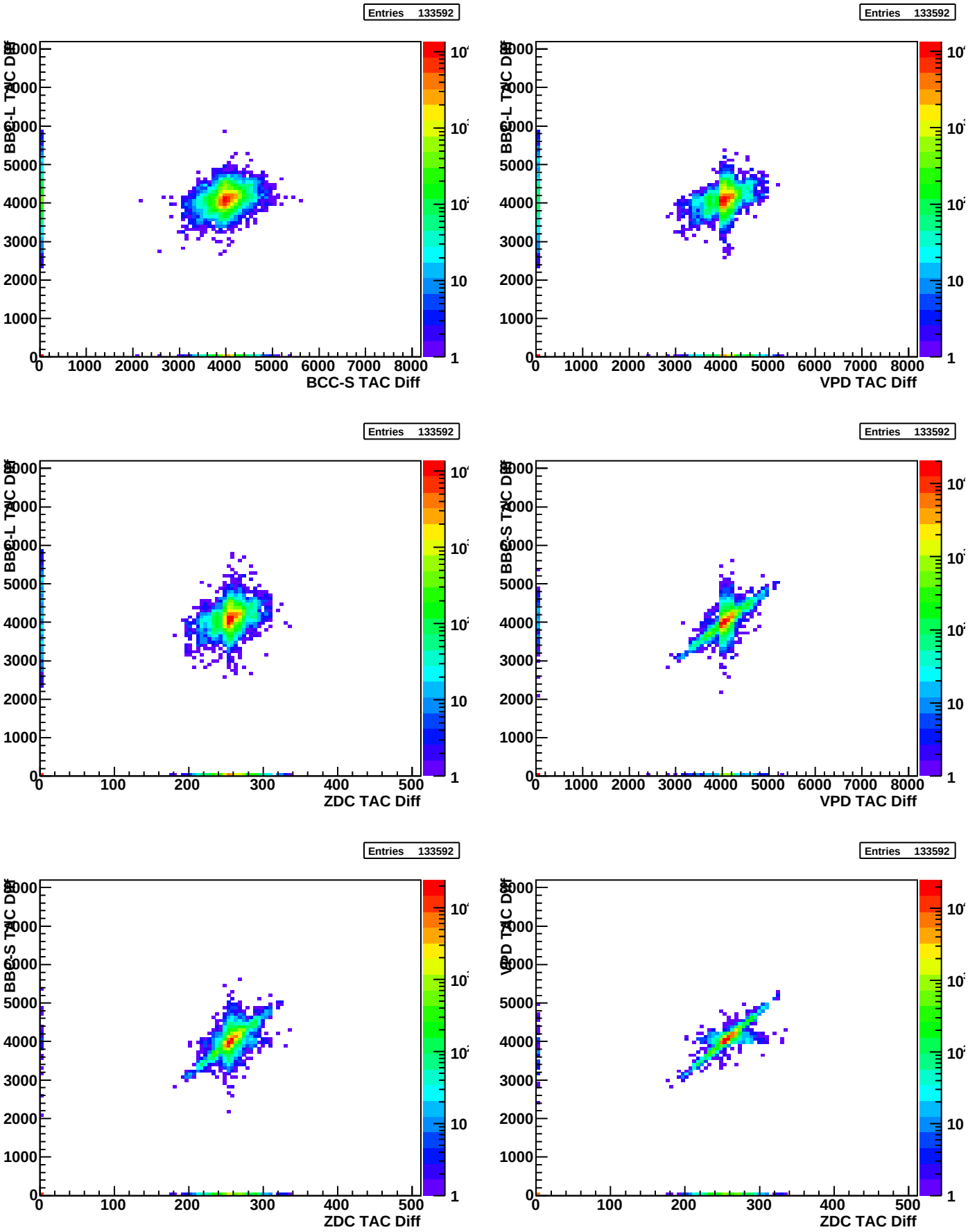
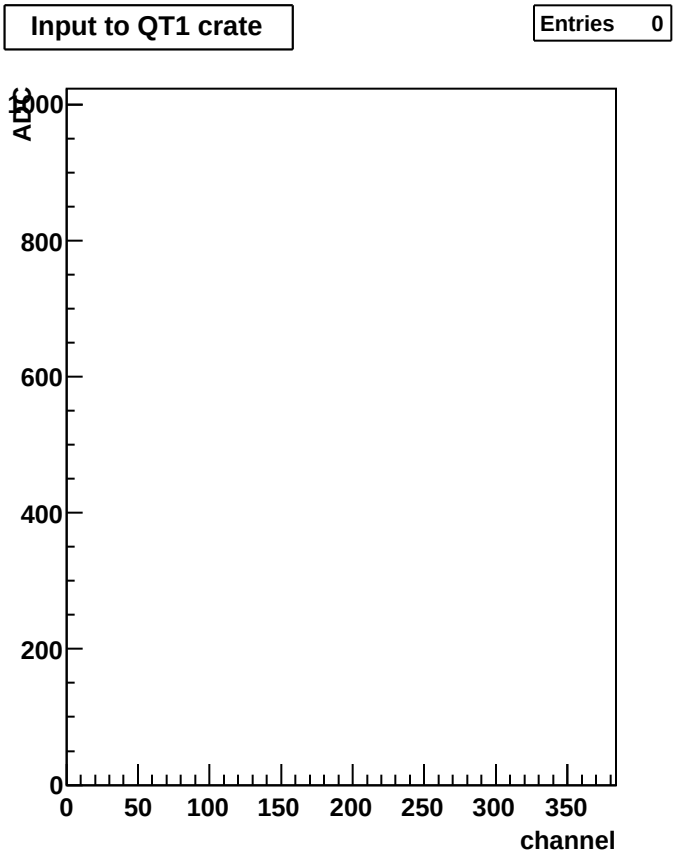
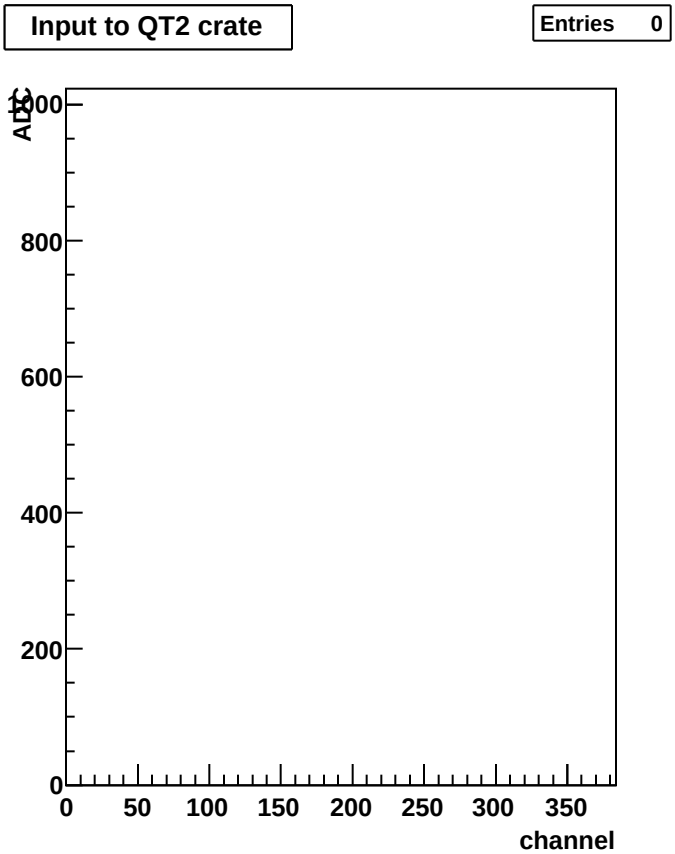
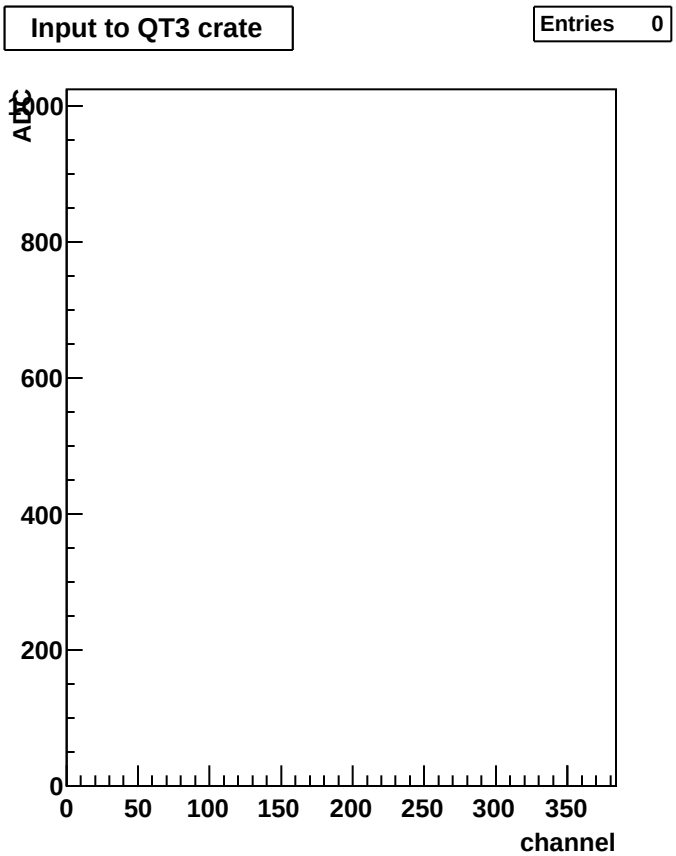
BBC-S-East ADC Sum
BBC-S-West ADC Sum

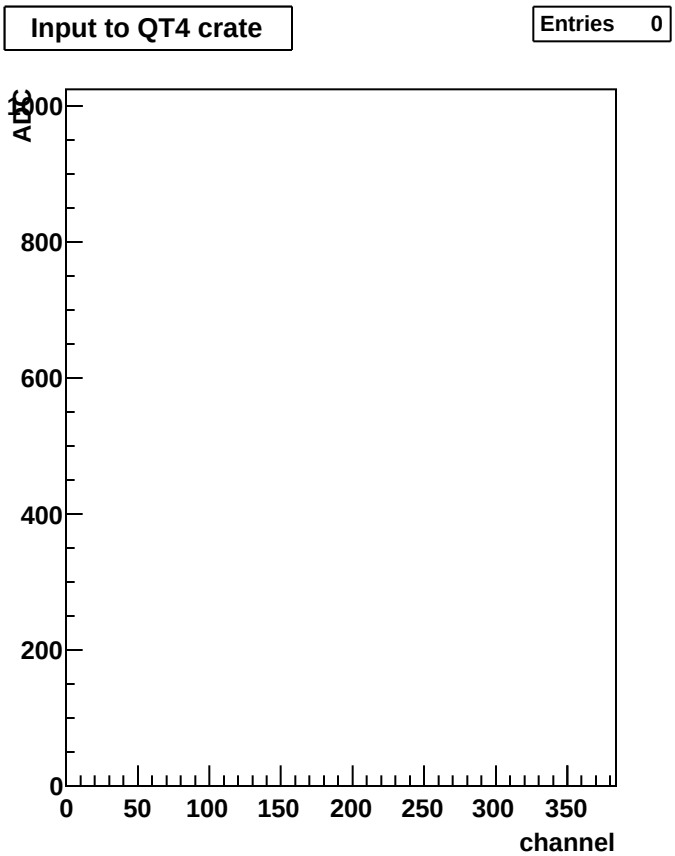

Entries 133592
ZDC East ADC Sum Att
ZDC West ADC Sum Att

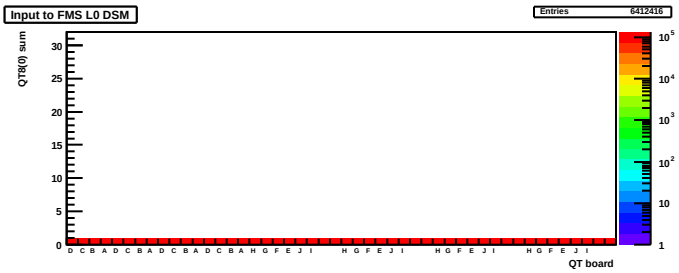

Entries 133592
BBC-L TAC Diff
BCC-S TAC Diff
VPD TAC Diff
ZDC TAC Diff
BBC-S TAC Diff
VPD TAC Diff
ZDC TAC Diff

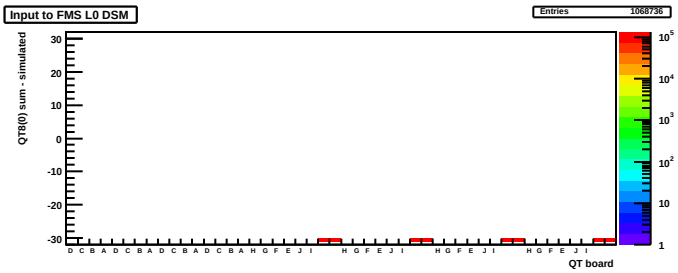

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

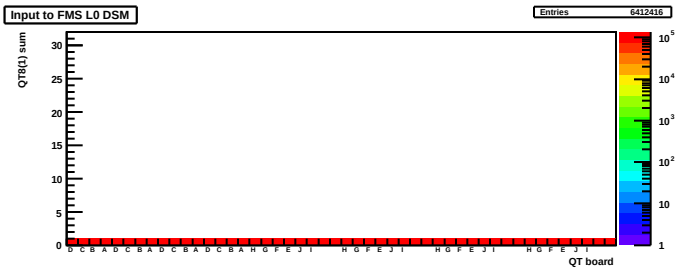

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

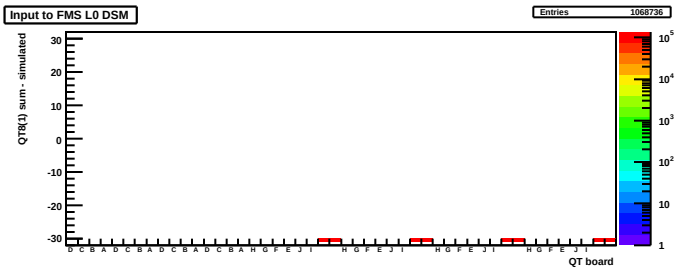

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

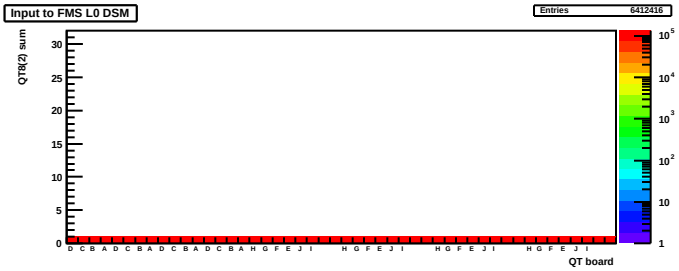

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

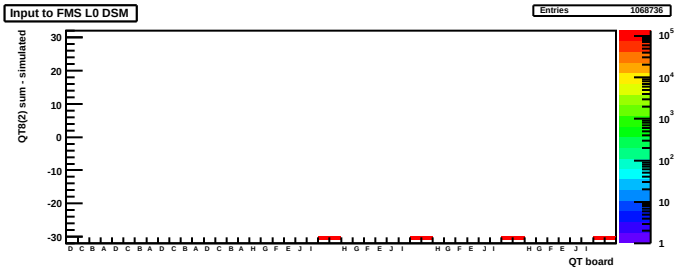

Input to FMS L0 DSM
Entries 6412416
QT8(0) sum
QT board

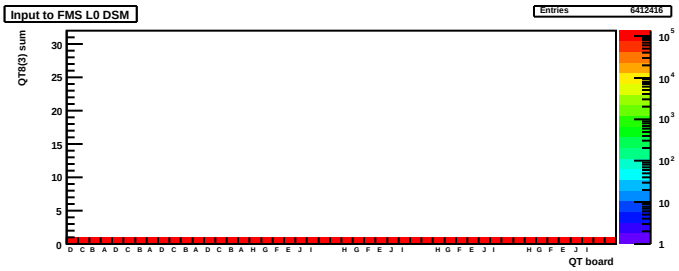

Input to FMS L0 DSM
Entries 1068736
QT8(0) sum - simulated
QT board

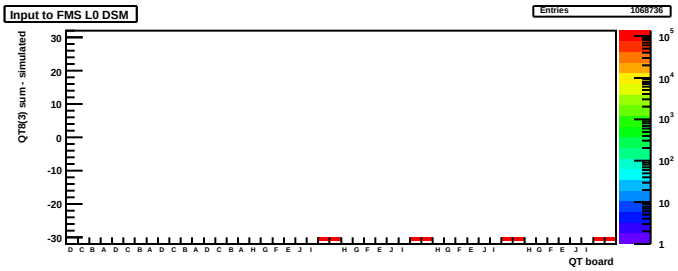

Input to FMS L0 DSM
Entries 6412416
QT8(1) sum
QT board

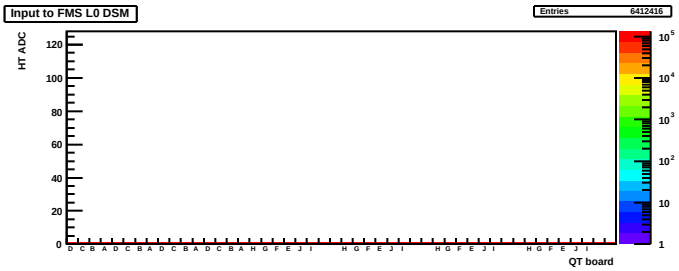

Input to FMS L0 DSM
Entries 1068736
QT8(1) sum - simulated
QT board

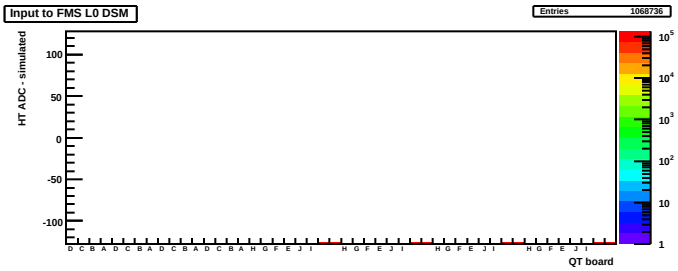

Input to FMS L0 DSM
Entries 6412416
QT8(2) sum
QT board

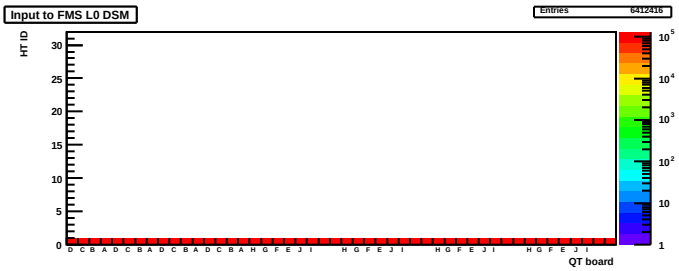

Input to FMS L0 DSM
Entries 1068736
QT8(2) sum - simulated
QT board

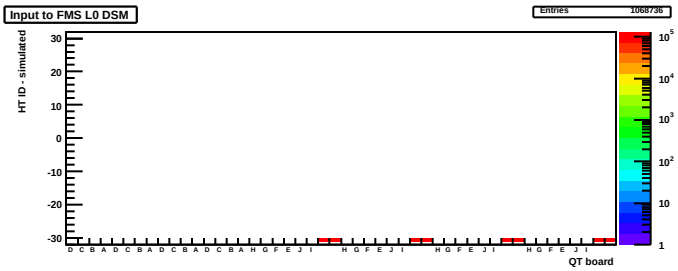

Input to FMS L0 DSM
Entries 6412416
QT8(3) sum
QT board

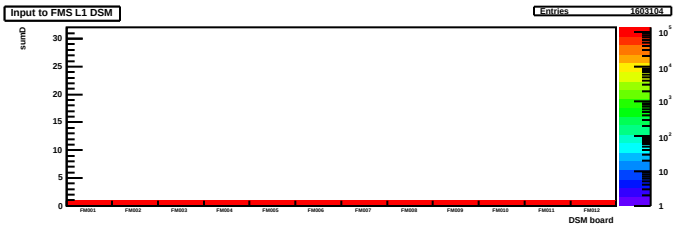

Input to FMS L0 DSM
Entries 1068736
QT8(3) sum - simulated
QT board

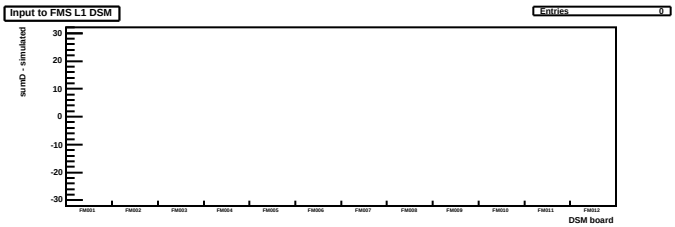

Input to FMS L0 DSM
Entries 6412416
HT ADC
QT board

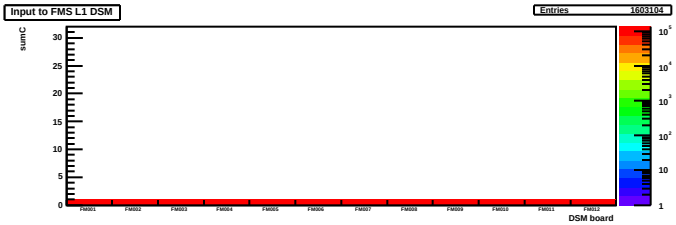

Input to FMS L0 DSM
Entries 1068736
HT ADC - simulated
QT board

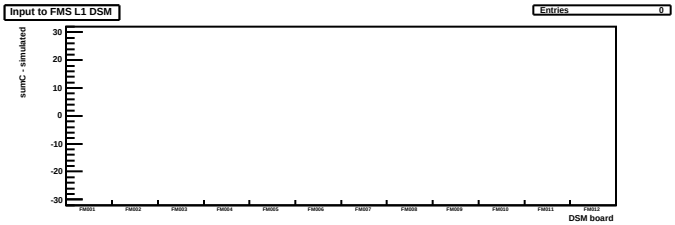

Input to FMS L0 DSM
Entries 6412416
HT ID
QT board

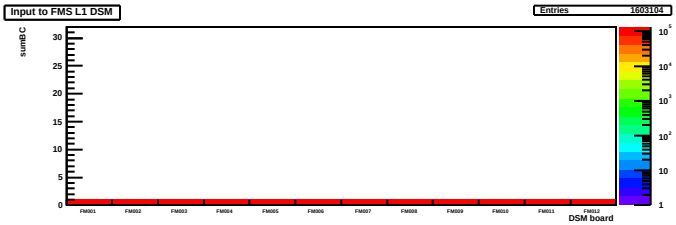

Input to FMS L0 DSM
Entries 1068736
HT ID - simulated
QT board

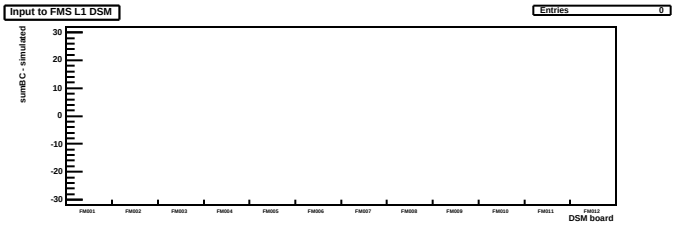

Input to FMS L1 DSM
Entries 1603104
sumD
DSM board

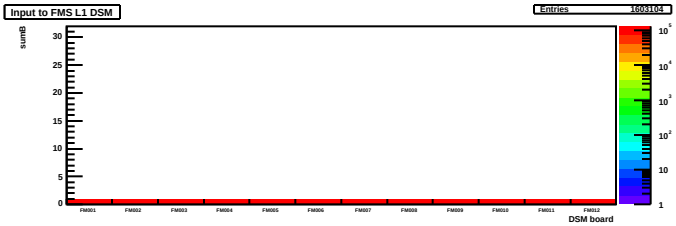

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

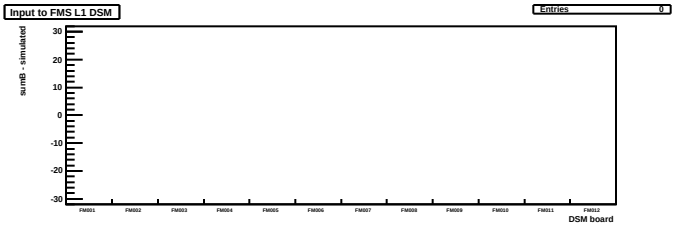

Input to FMS L1 DSM
Entries 1603104
sumC
DSM board

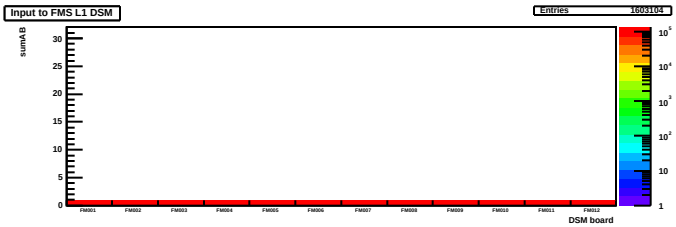

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

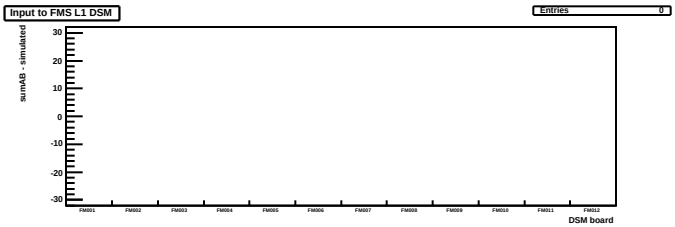

Input to FMS L1 DSM
Entries 1603104
sumBC
DSM board

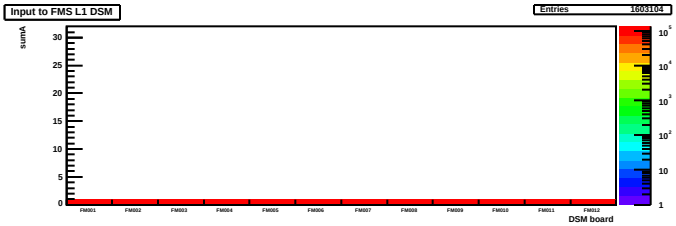

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

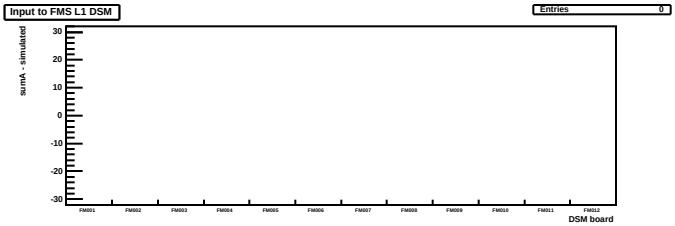

Input to FMS L1 DSM
Entries 1603104
sumB
DSM board

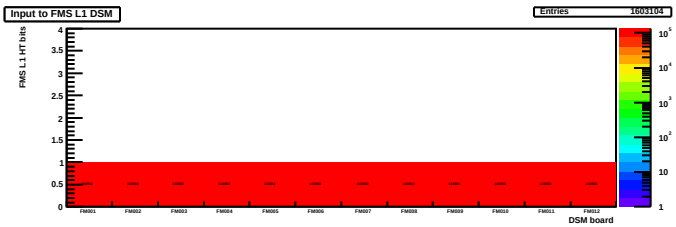

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

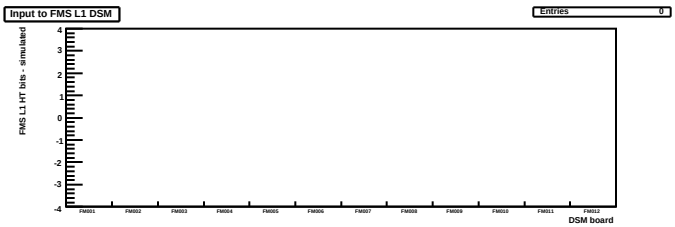

Input to FMS L1 DSM
Entries 1603104
sumAB
DSM board

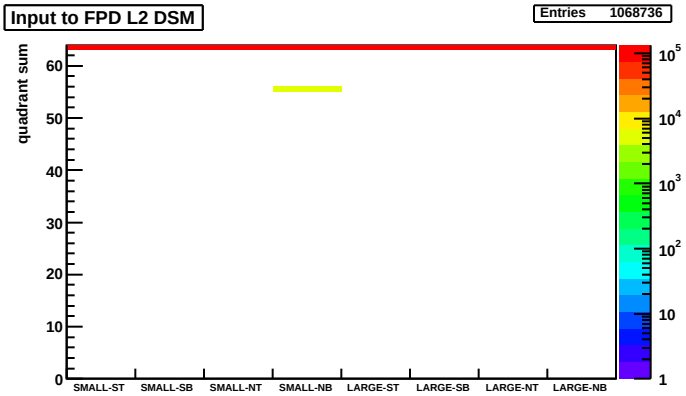

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

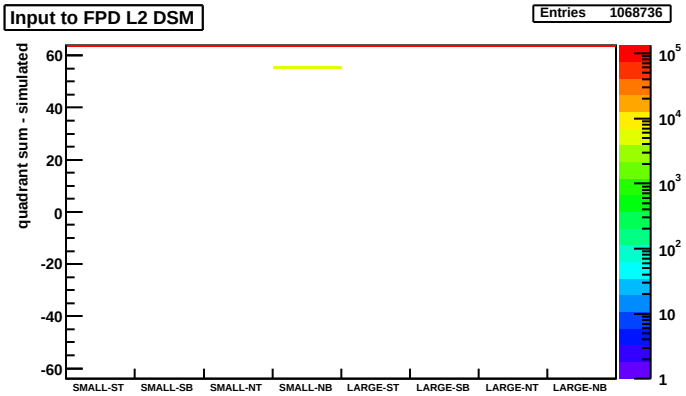

Input to FMS L1 DSM
Entries 1603104
sumA
DSM board

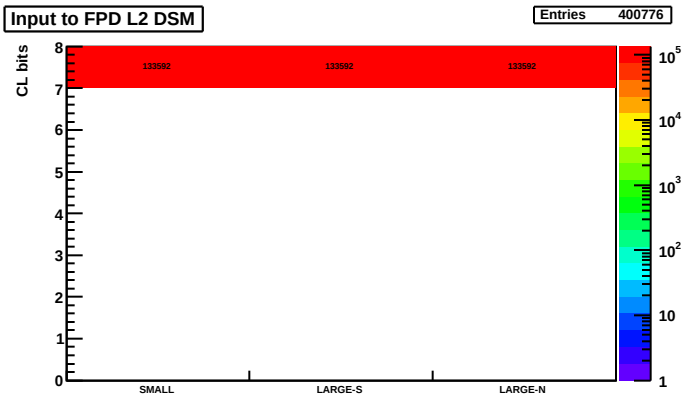

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

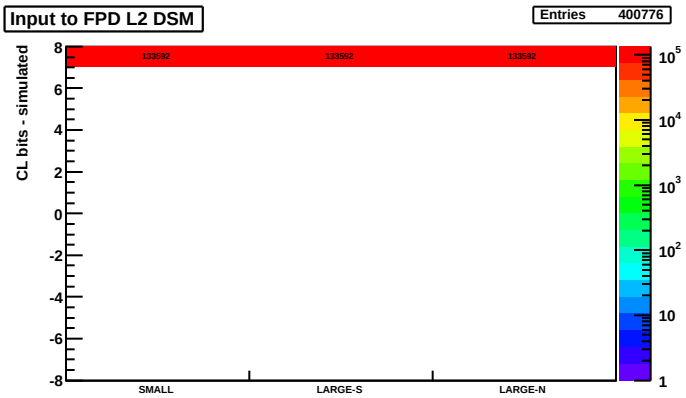

Input to FMS L1 DSM
Entries 1603104
FMS L1 HT bits
DSM board

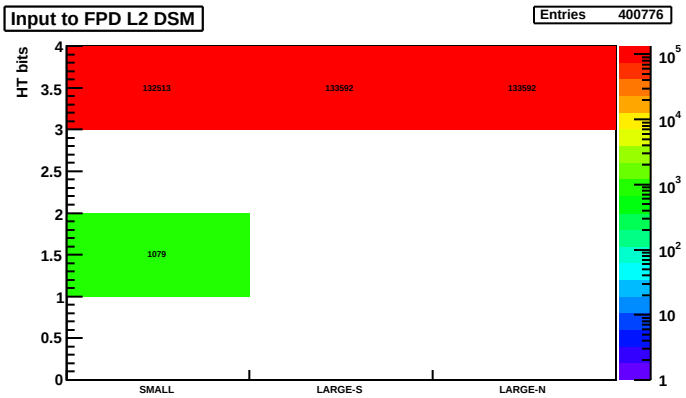

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

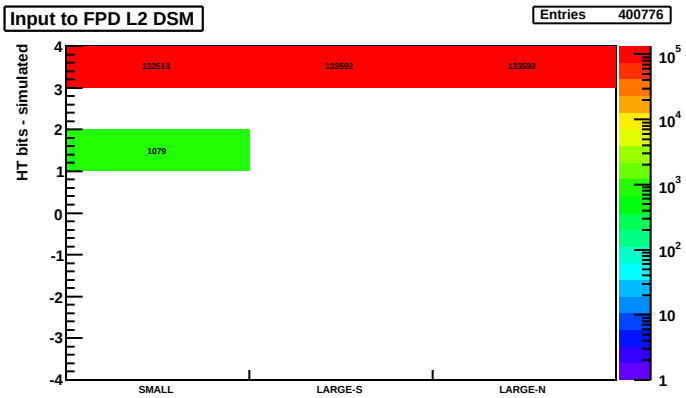

Input to FPD L2 DSM
Entries 1068736
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

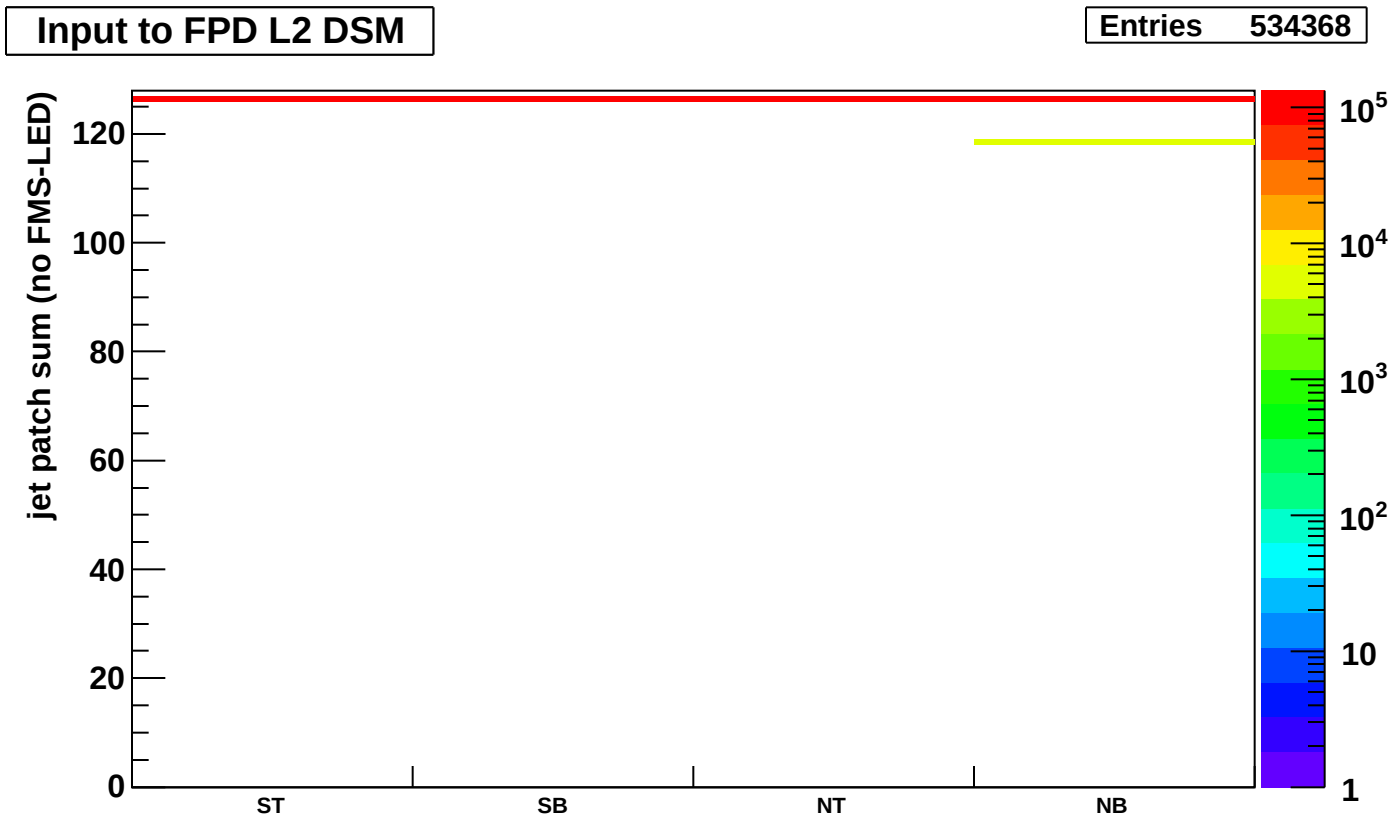

Input to FPD L2 DSM
Entries 1068736
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

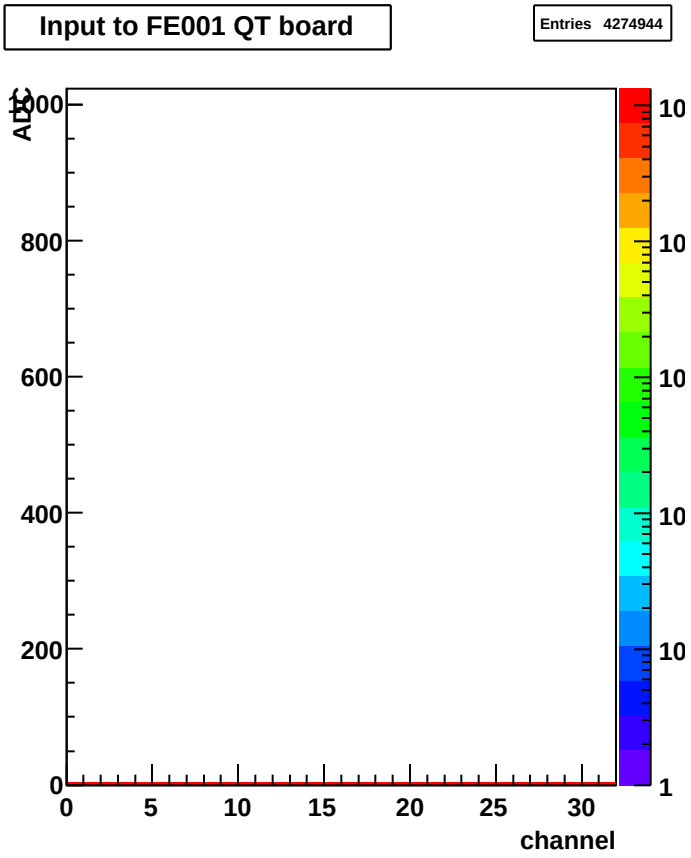

Input to FPD L2 DSM
Entries 400776
CL bits
133592 133592 133592
SMALL LARGE-S LARGE-N

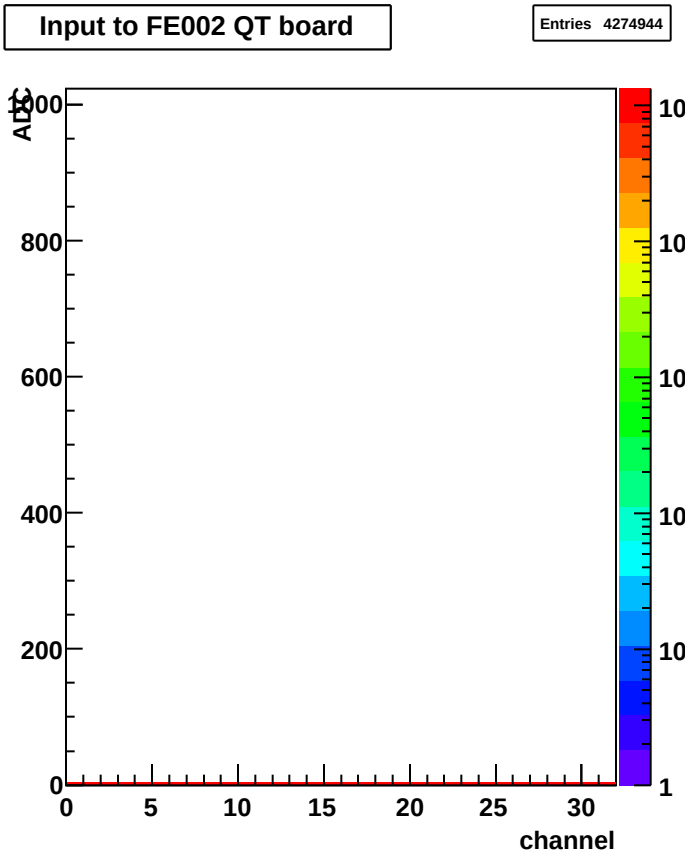

Input to FPD L2 DSM
Entries 400776
CL bits - simulated
133592 133592 133592
SMALL LARGE-S LARGE-N

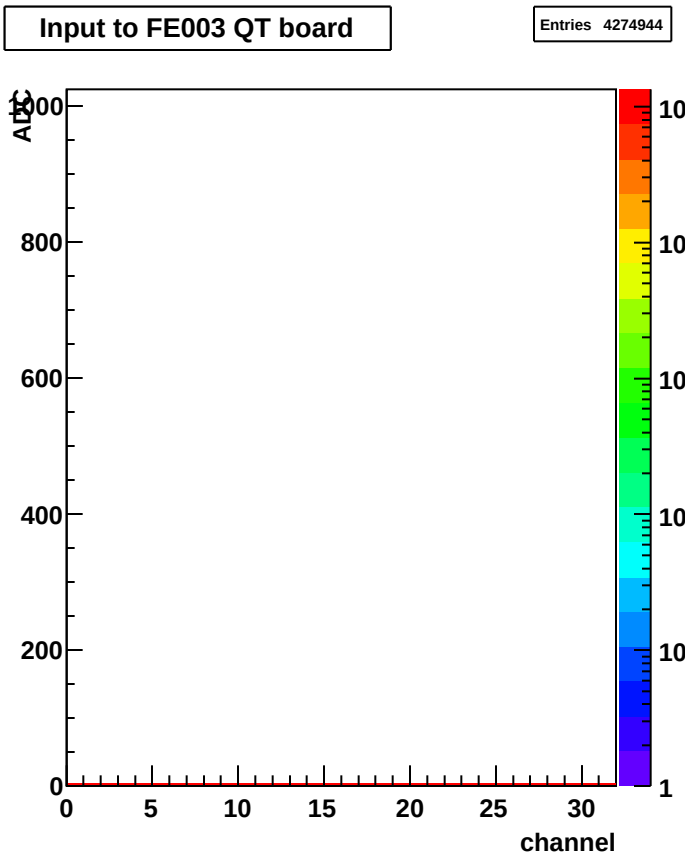

Input to FPD L2 DSM
Entries 400776
HT bits
132513 133592 133592
1079
SMALL LARGE-S LARGE-N

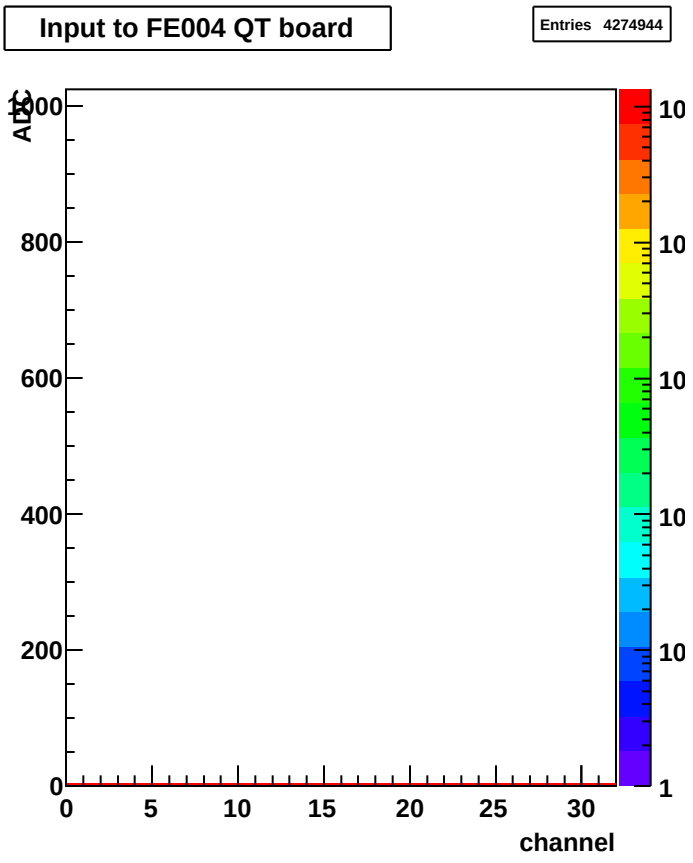

Input to FPD L2 DSM
Entries 400776
HT bits - simulated
132513 133592 133592
1079
SMALL LARGE-S LARGE-N

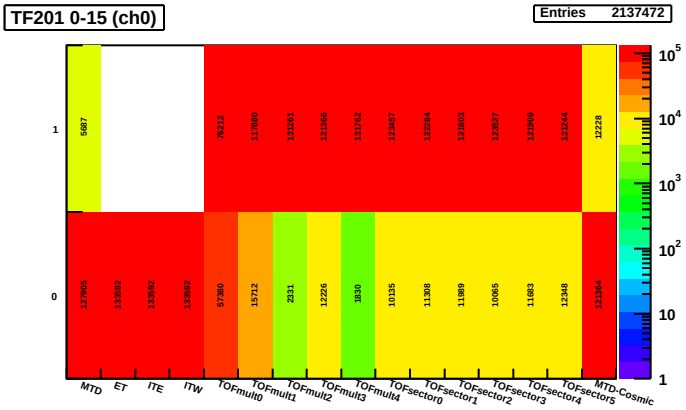

Input to FPD L2 DSM
Entries 534368
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

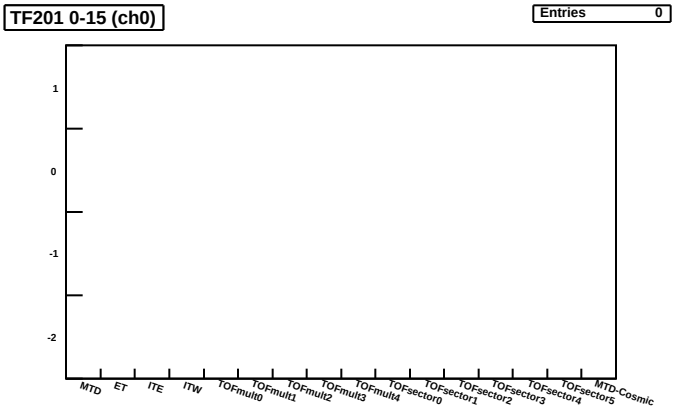

Input to FE001 QT board
Entries 4274944
ADC
channel

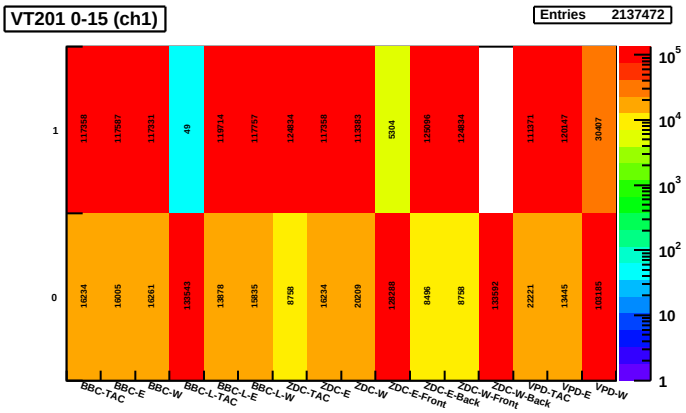

Input to FE002 QT board
Entries 4274944
ADC
channel

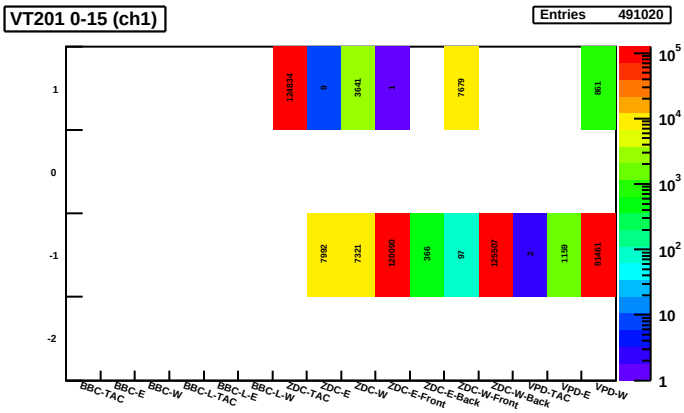

Input to FE003 QT board
Entries 4274944
ADC
channel

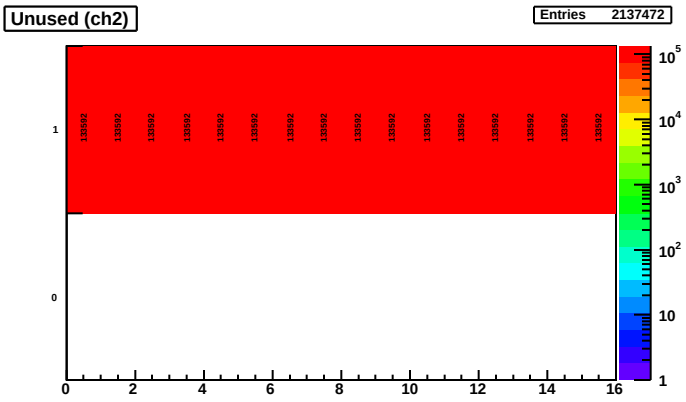

Input to FE004 QT board
Entries 4274944
ADC
channel

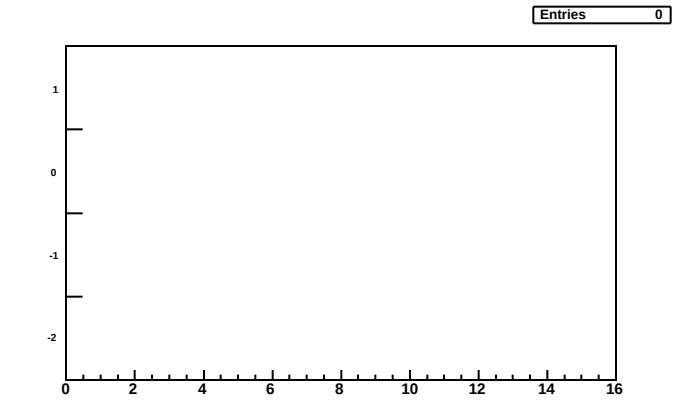

TF201 0-15 (ch0)
Entries 2137472
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

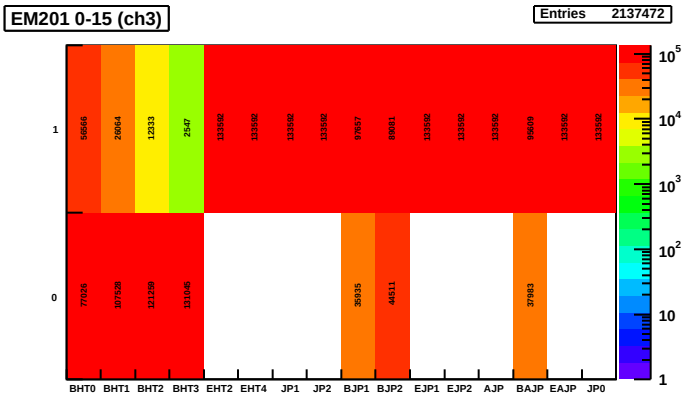

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

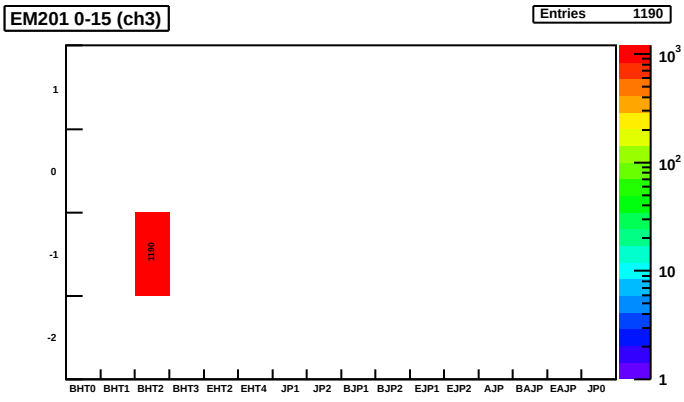

VT201 0-15 (ch1)
Entries 2137472
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 491020
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

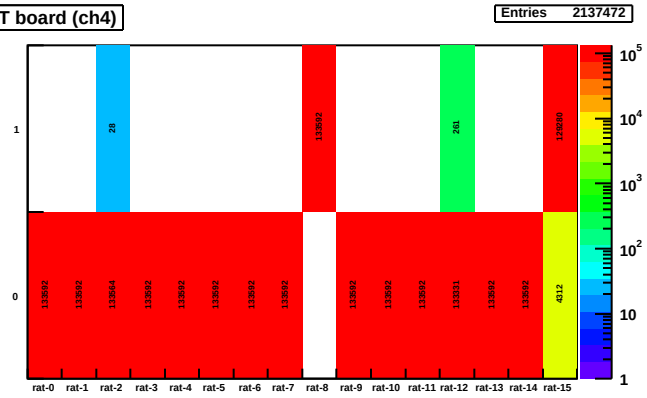

Unused (ch2)
Entries 2137472

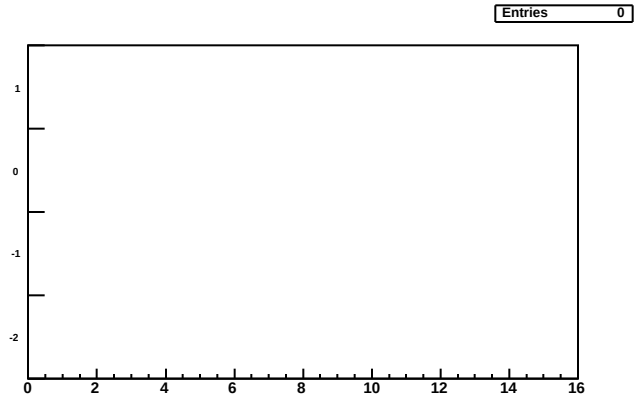

Entries 0


EM201 0-15 (ch3)
Entries 2137472
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

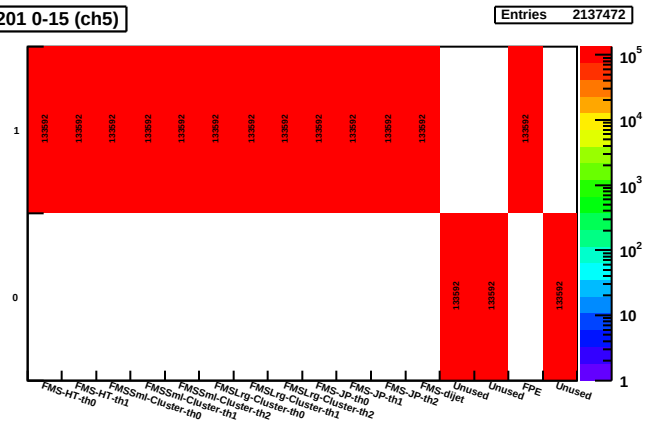

EM201 0-15 (ch3)
Entries 1190
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

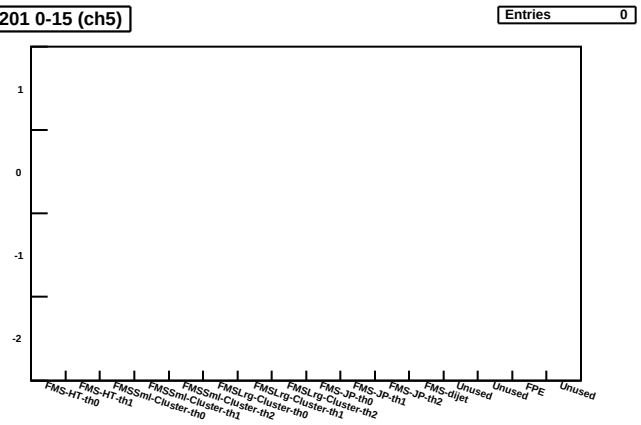




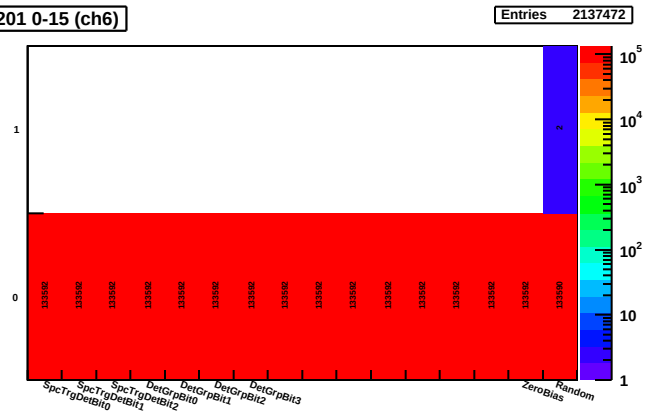
FP201 0-15 (ch5)

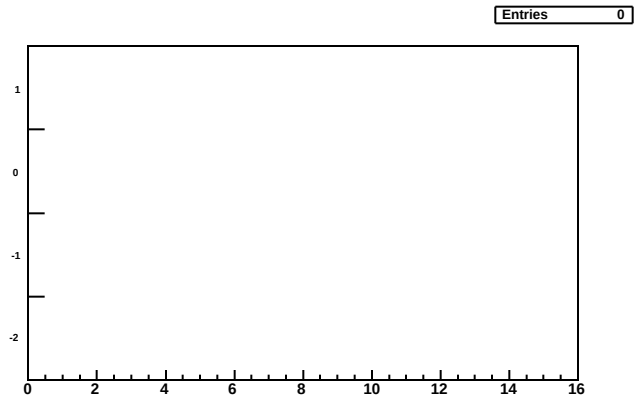
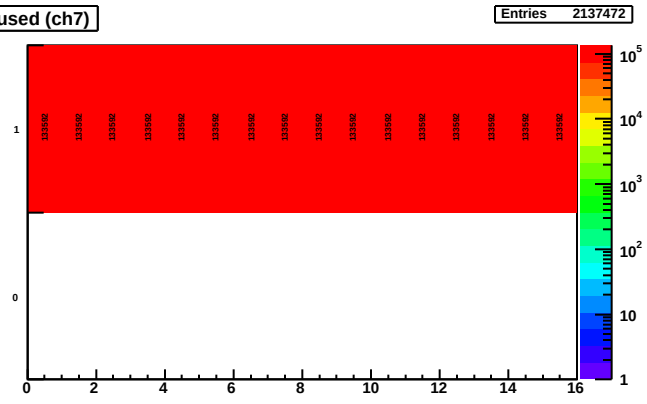
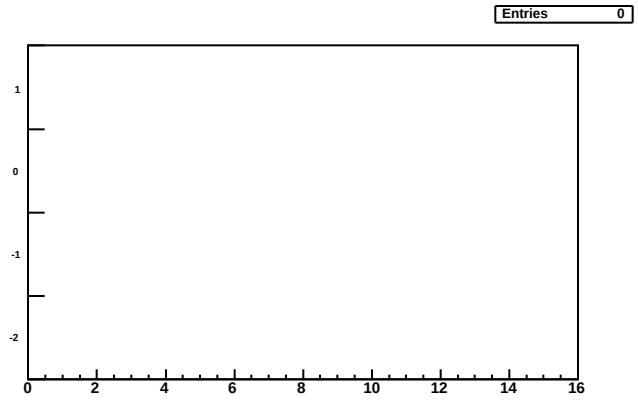


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)