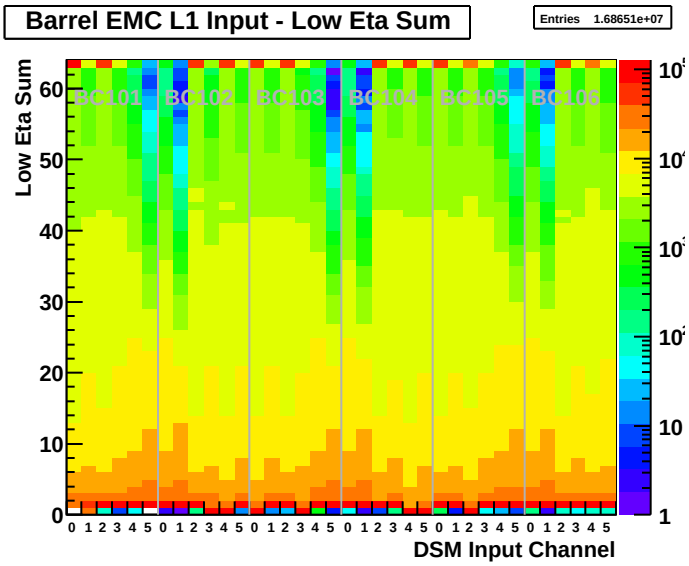
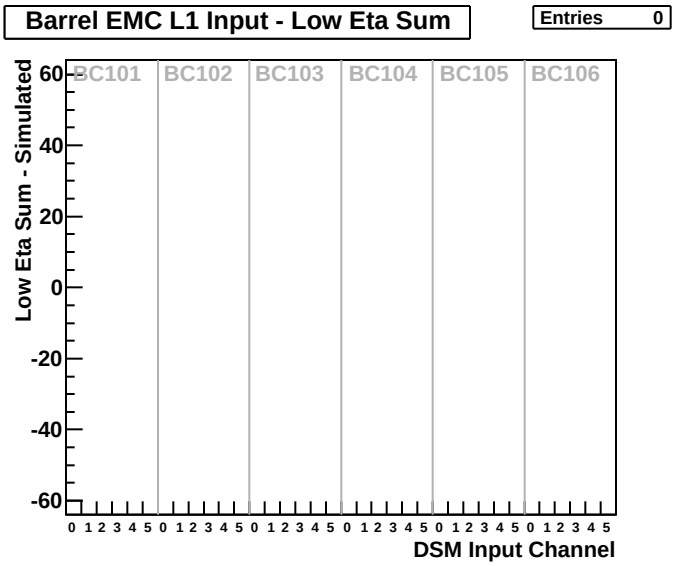
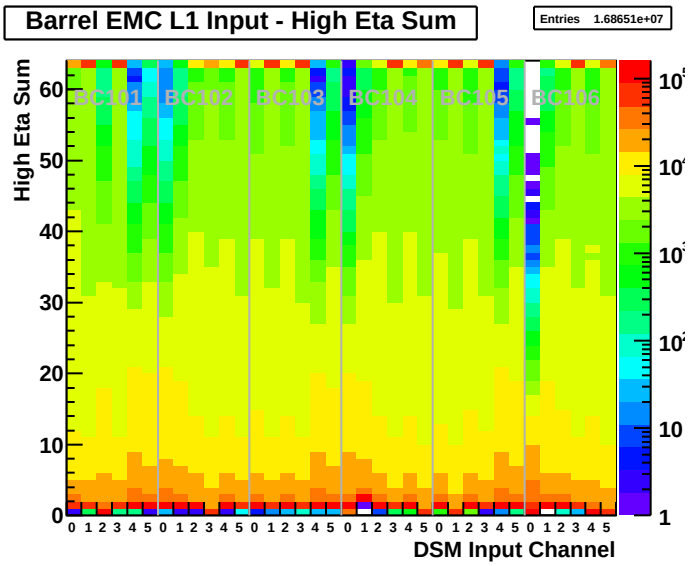
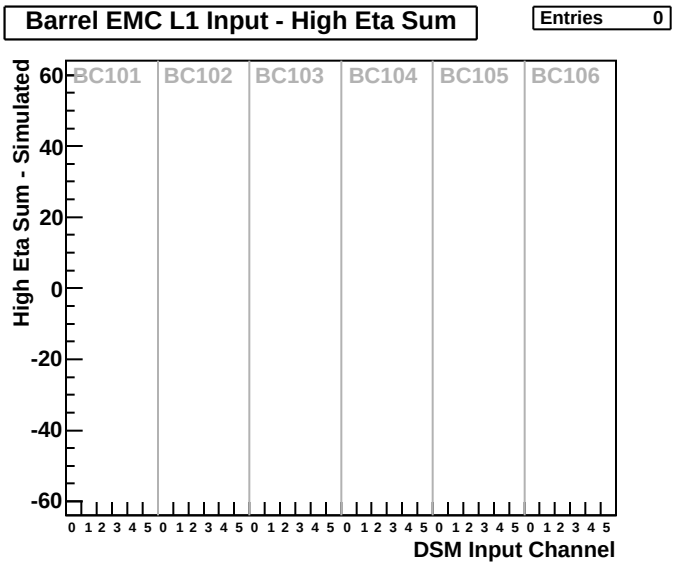
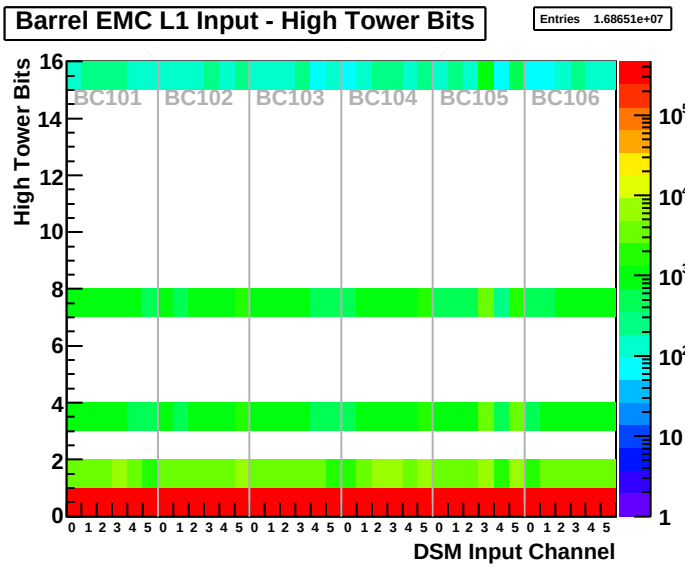
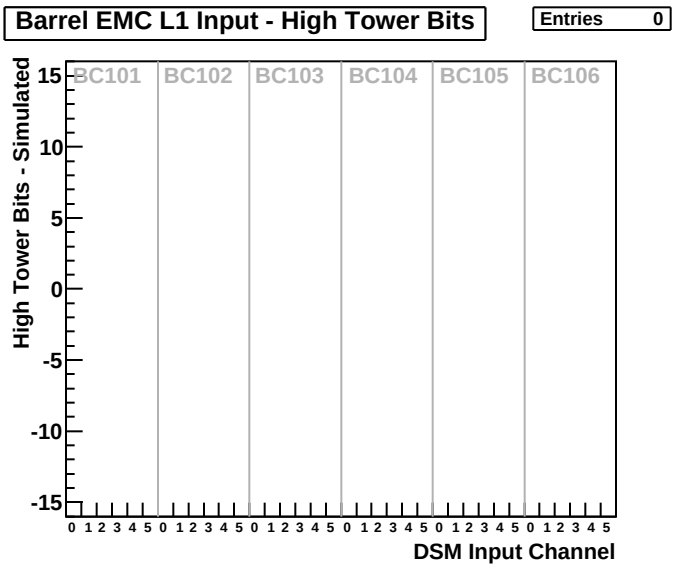

Barrel EMC L1 Input - Low Eta Sum
Entries 1.68651e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

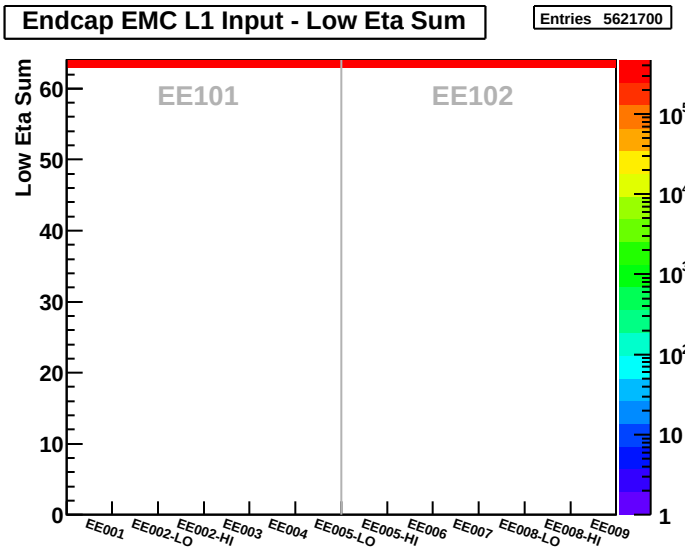

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

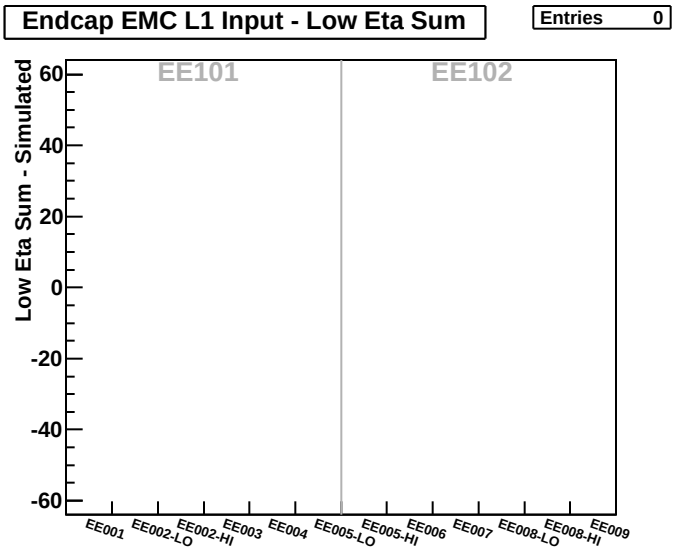

Barrel EMC L1 Input - High Eta Sum
Entries 1.68651e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

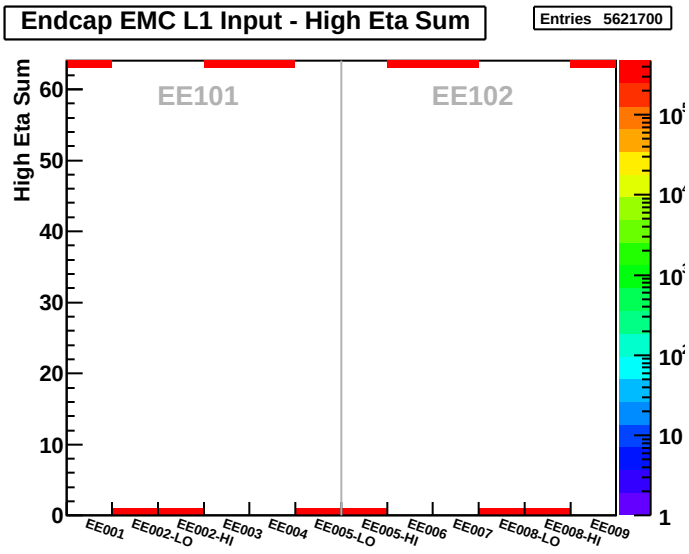

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

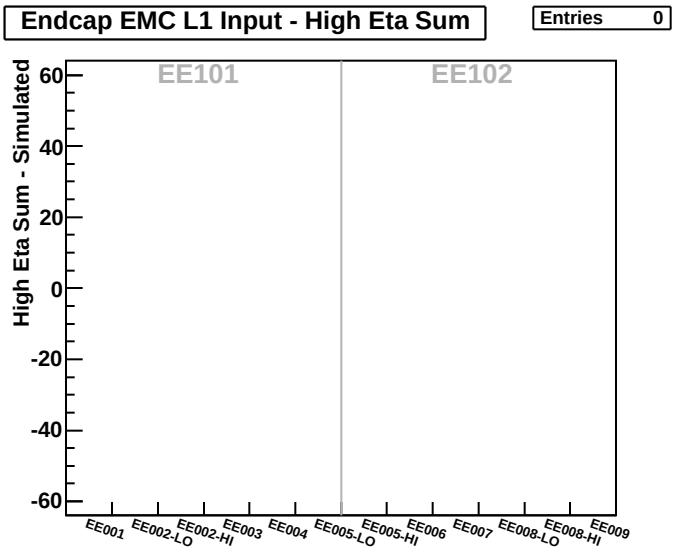

Barrel EMC L1 Input - High Tower Bits
Entries 1.68651e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

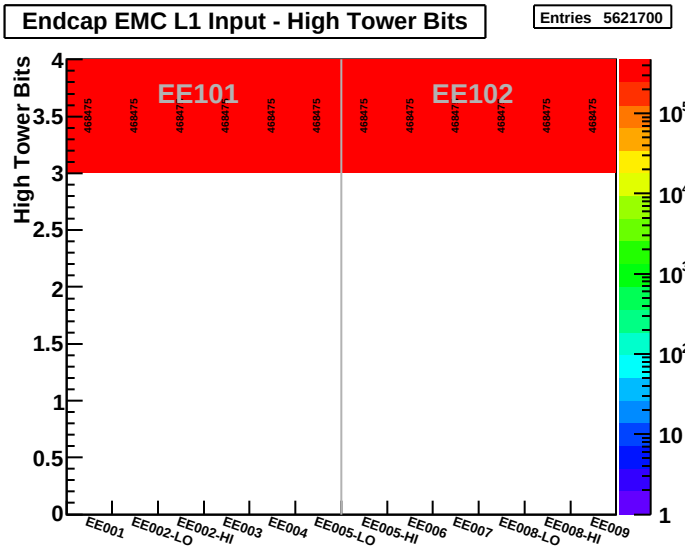

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

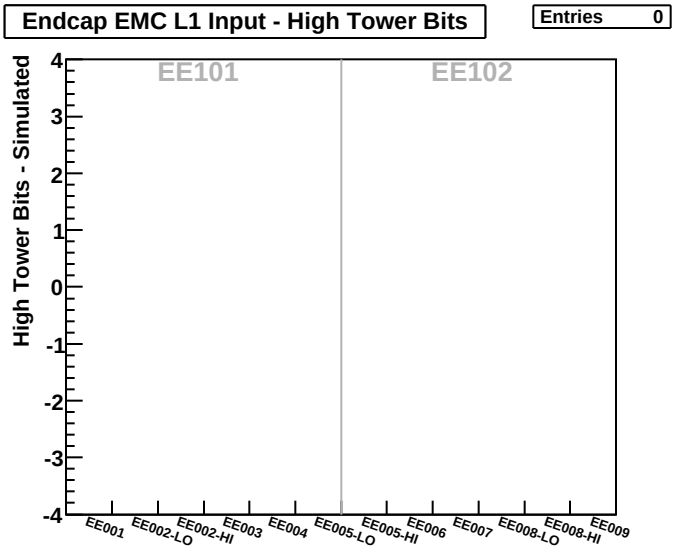

Endcap EMC L1 Input - Low Eta Sum
Entries 5621700
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

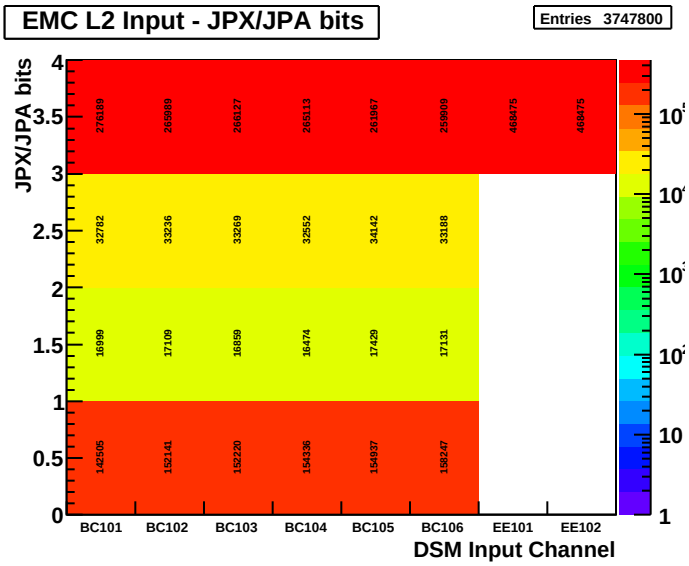

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

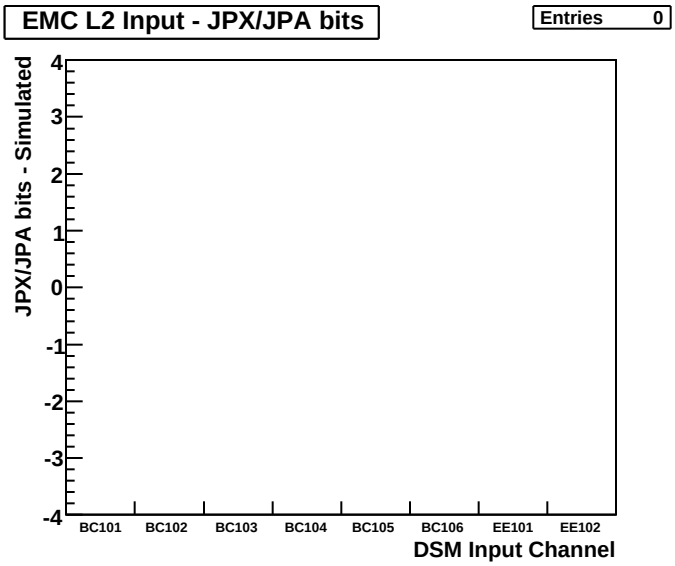

Endcap EMC L1 Input - High Eta Sum
Entries 5621700
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

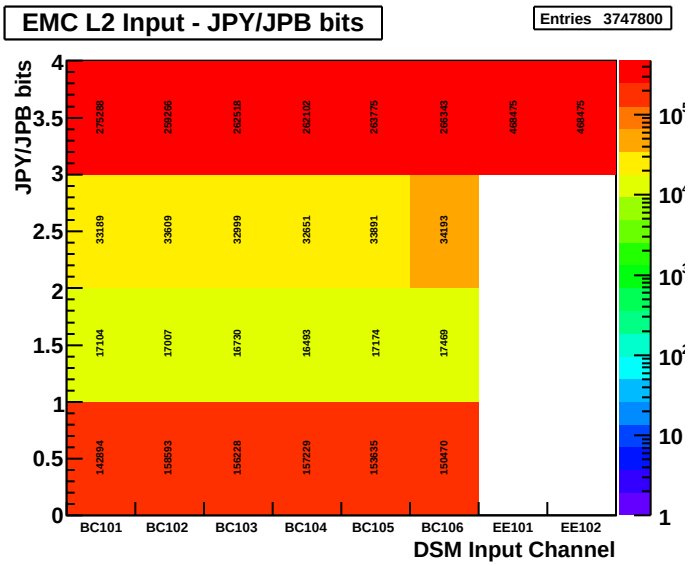

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

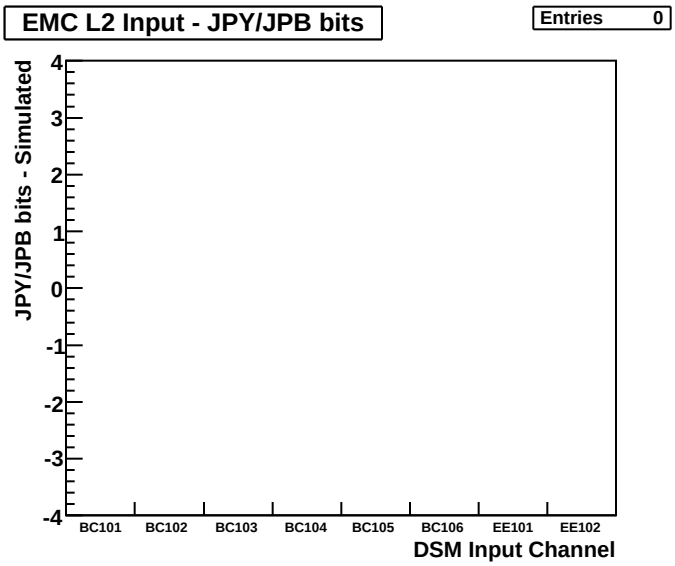

Endcap EMC L1 Input - High Tower Bits
Entries 5621700
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

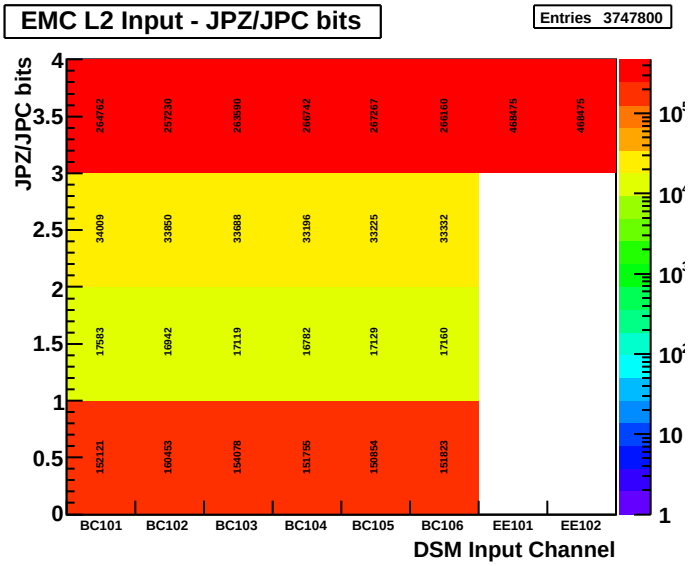

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

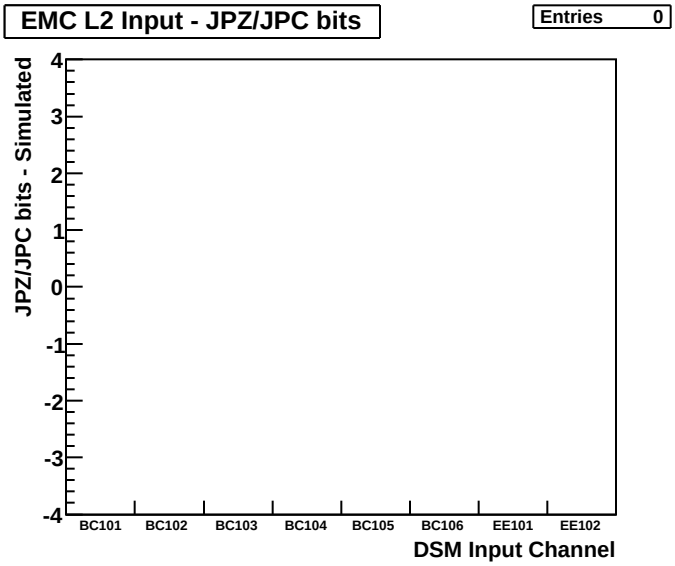

EMC L2 Input - JPX/JPA bits
Entries 3747800
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
276189 265989 266127 265113 261967 259909 468475 468475
32782 33236 33269 32552 34142 33188
16999 17109 16859 16474 17429 17131
142505 152141 152220 154336 154937 158247

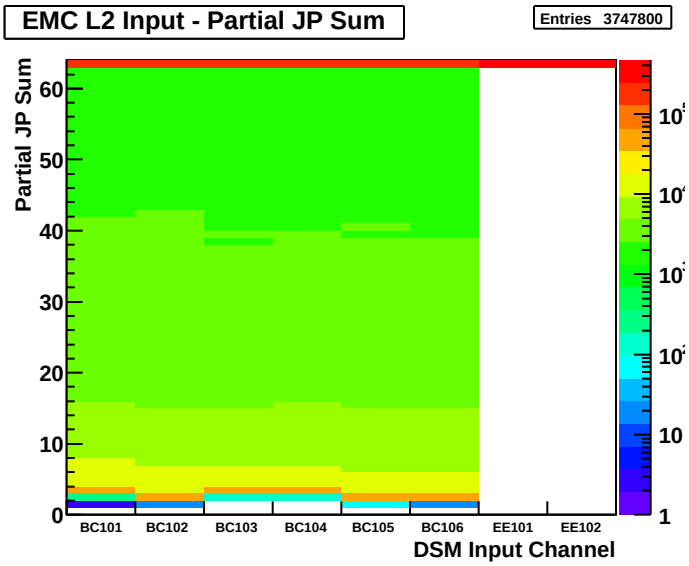

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

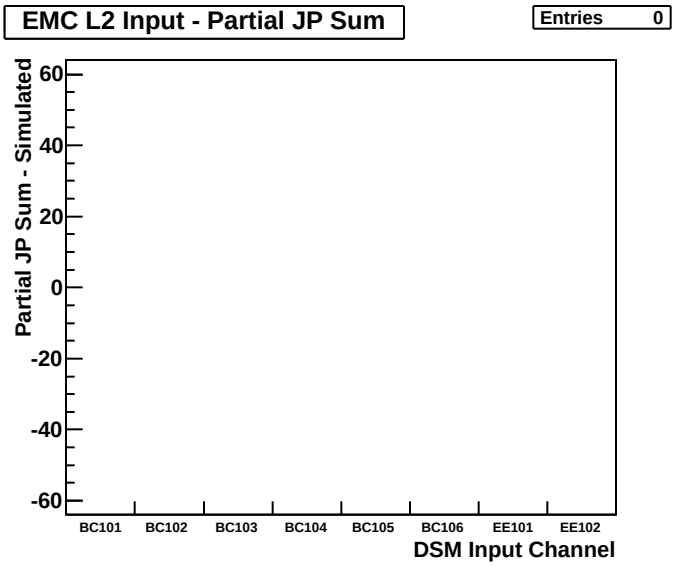

EMC L2 Input - JPY/JPB bits
Entries 3747800
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
275288 259266 262518 262102 263775 266343 468475 468475
33189 33609 32999 32651 33891 34193
17104 17007 16730 16493 17174 17469
142894 156593 156228 157229 153635 150470

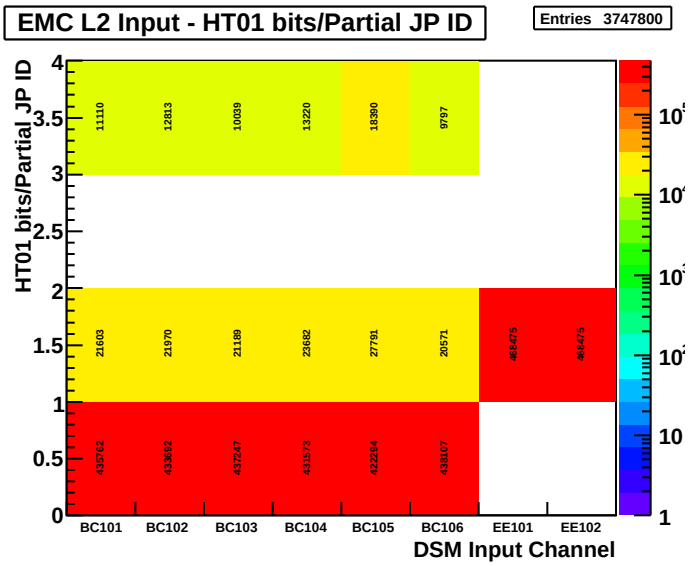

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

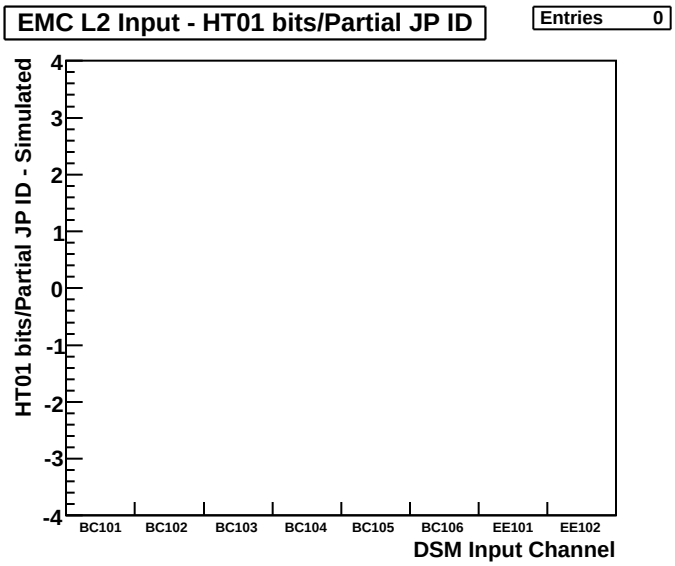

EMC L2 Input - JPZ/JPC bits
Entries 3747800
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
264762 257230 263590 266742 267267 266160 468475 468475
34009 33850 33688 33196 33225 33332
17583 16942 17119 16782 17129 17160
152121 160453 154078 151755 150854 151823

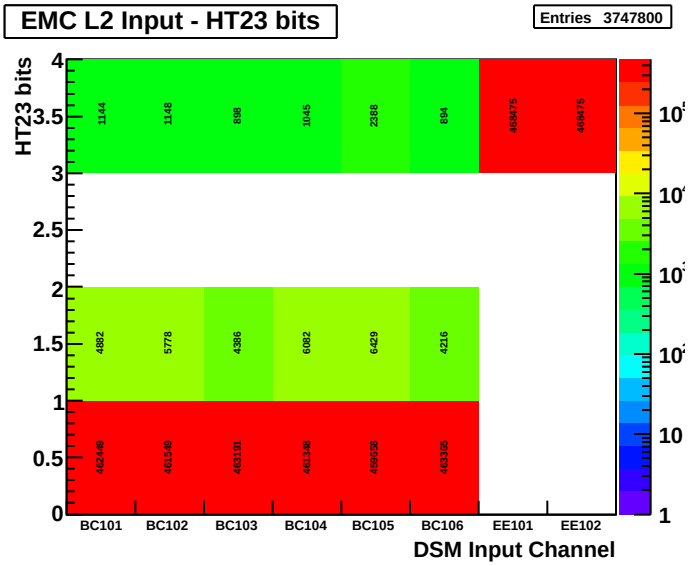

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

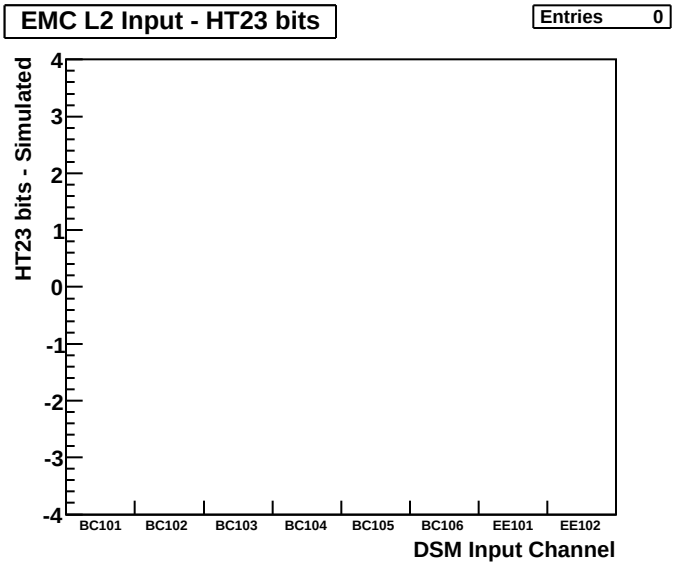

EMC L2 Input - Partial JP Sum
Entries 3747800
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

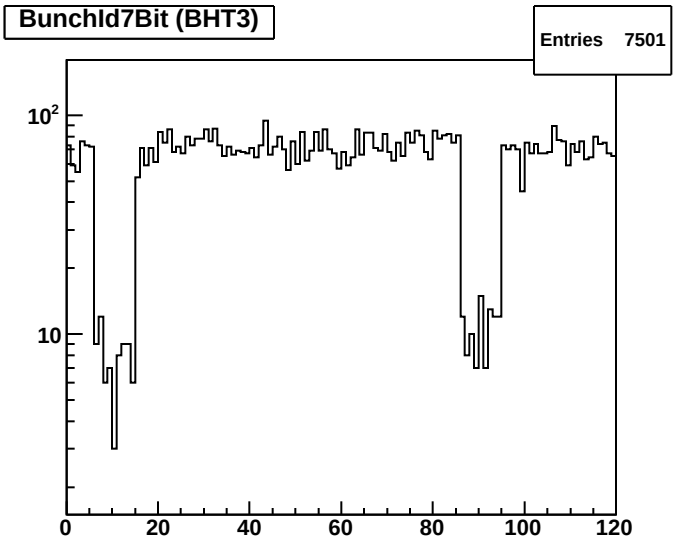

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

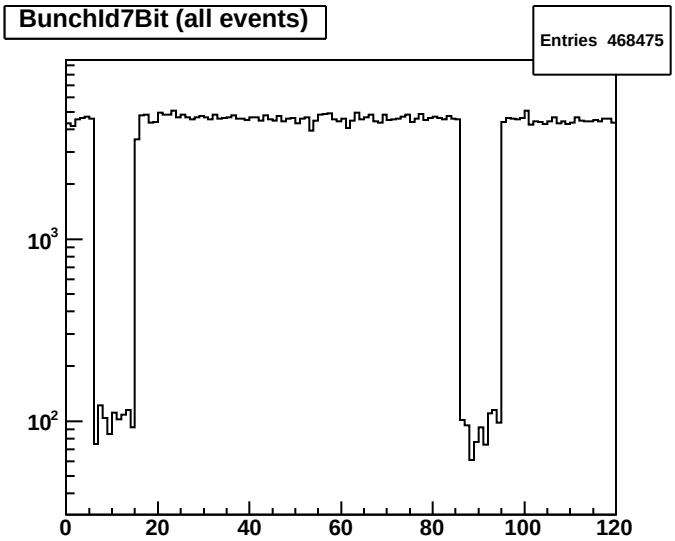

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3747800
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

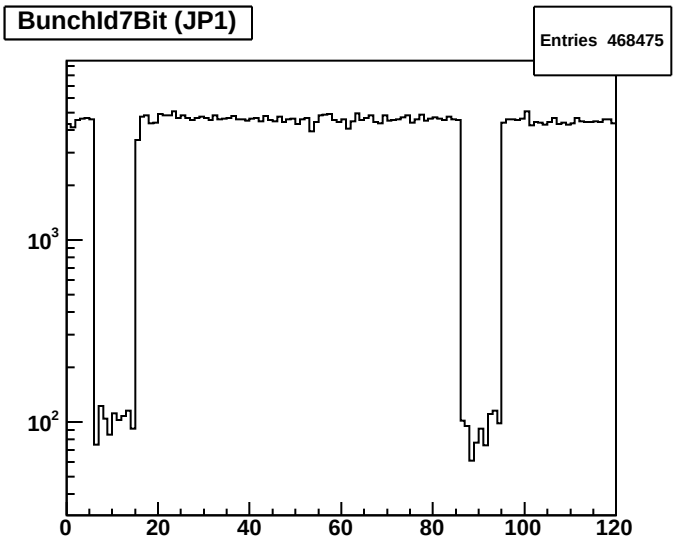

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

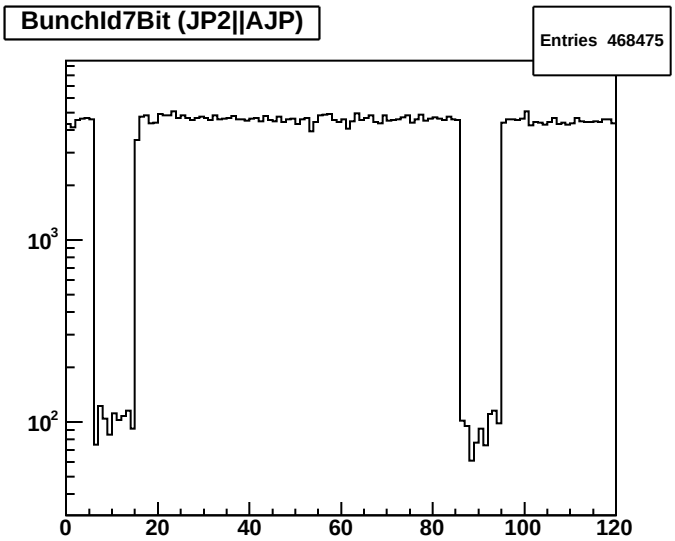

EMC L2 Input - HT23 bits
Entries 3747800
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

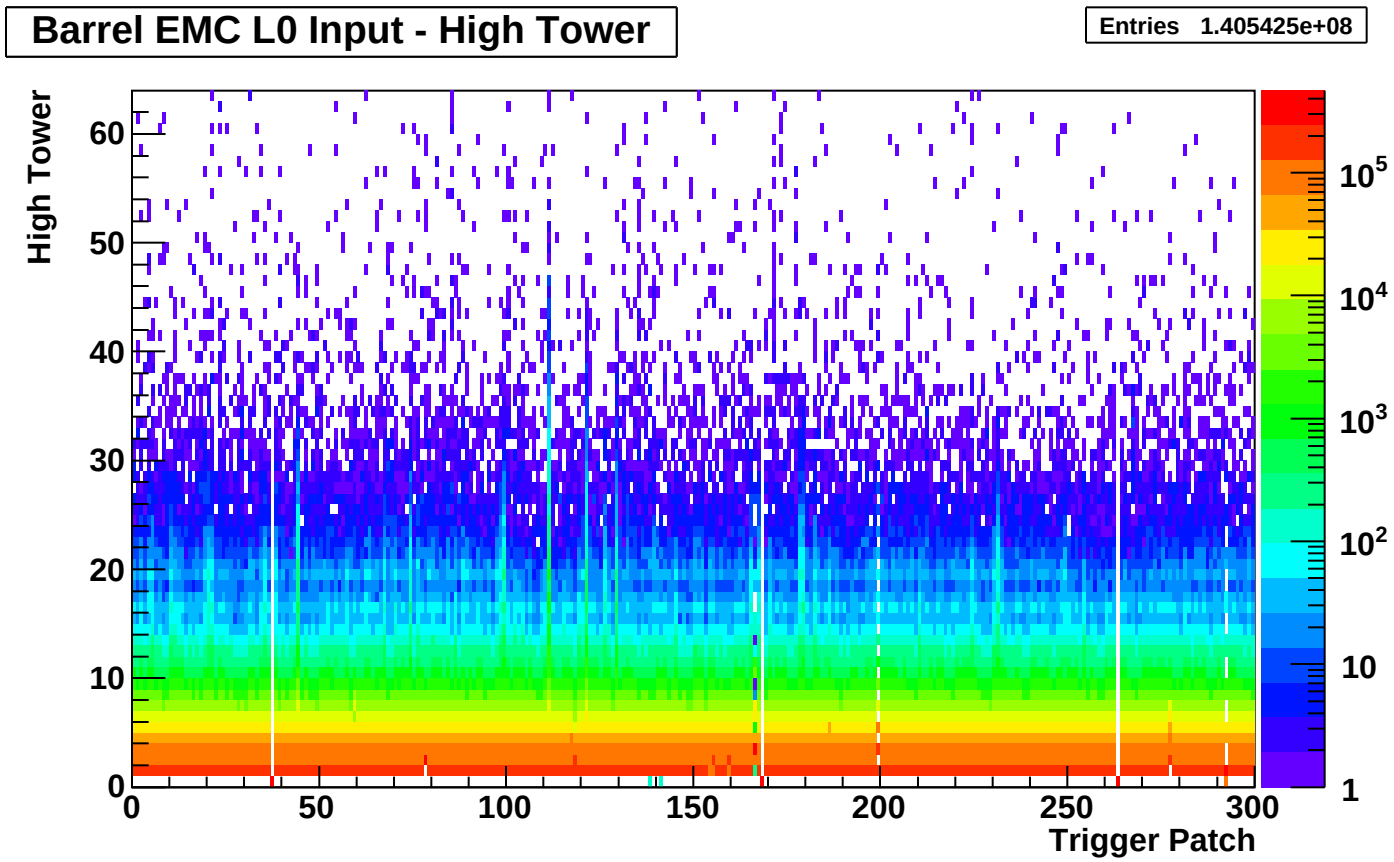

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

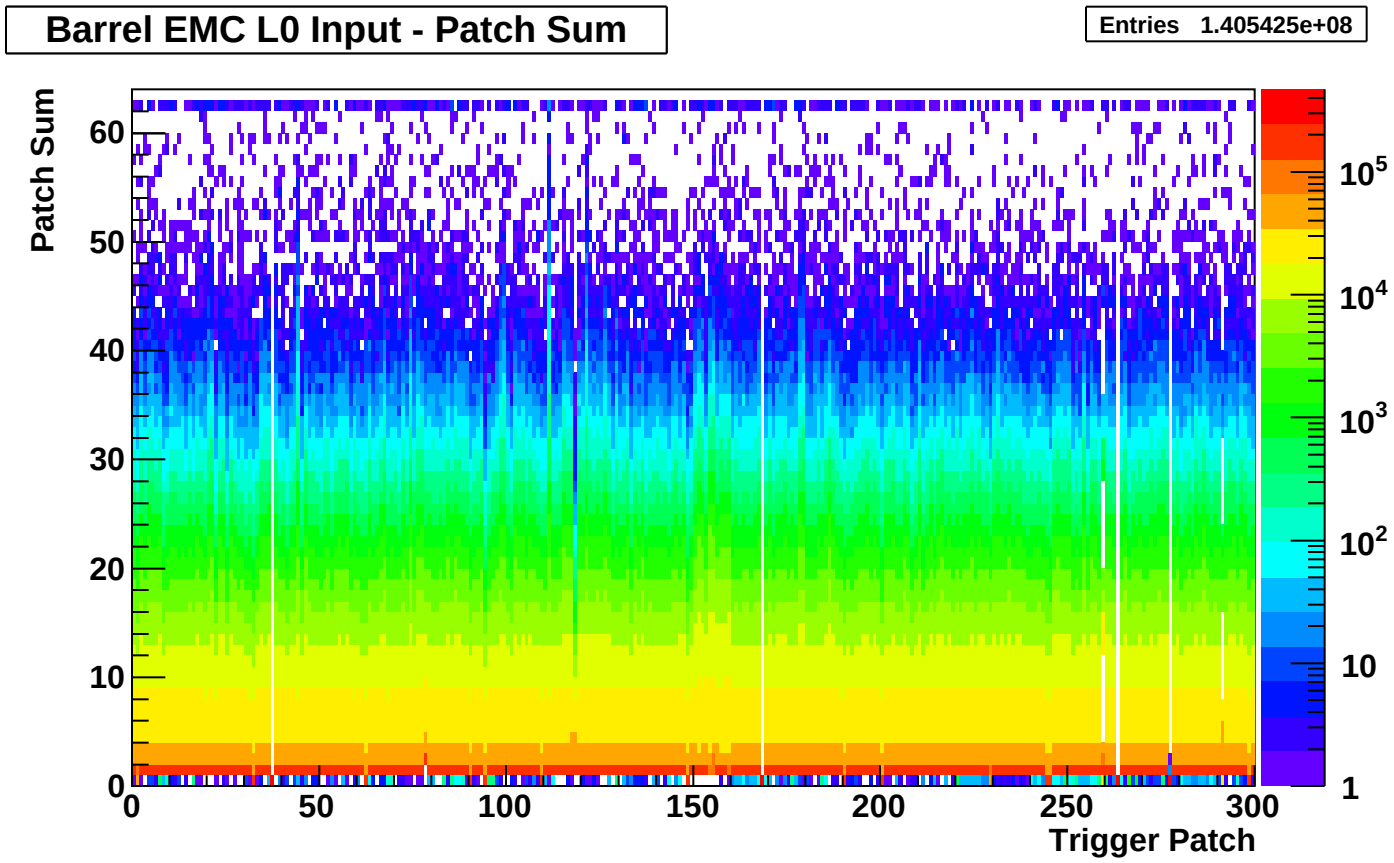

BunchId7Bit (BHT3)
Entries 7501
10^2
10
0
20
40
60
80
100
120

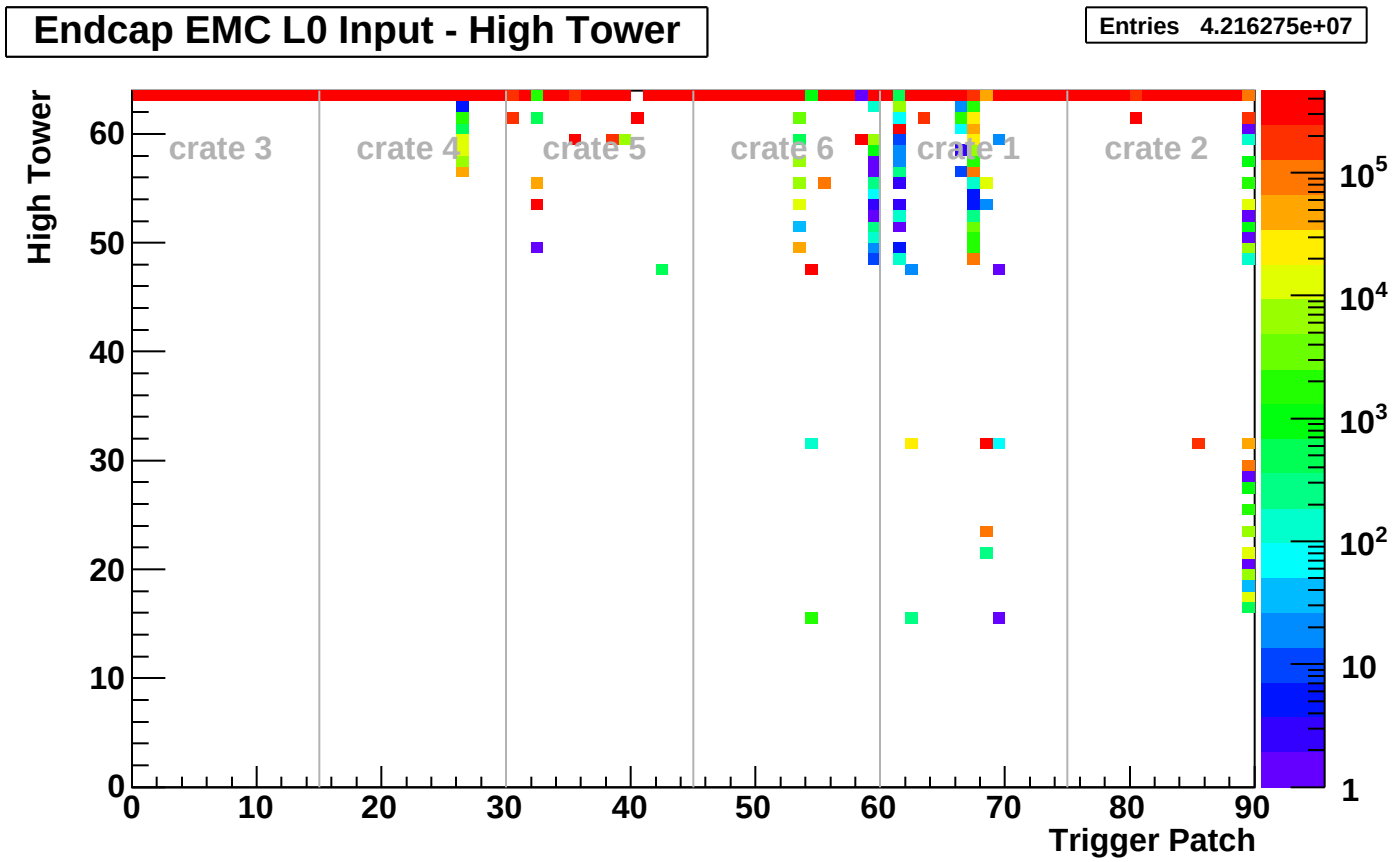

BunchId7Bit (all events)
Entries 468475
10^3
10^2
0
20
40
60
80
100
120

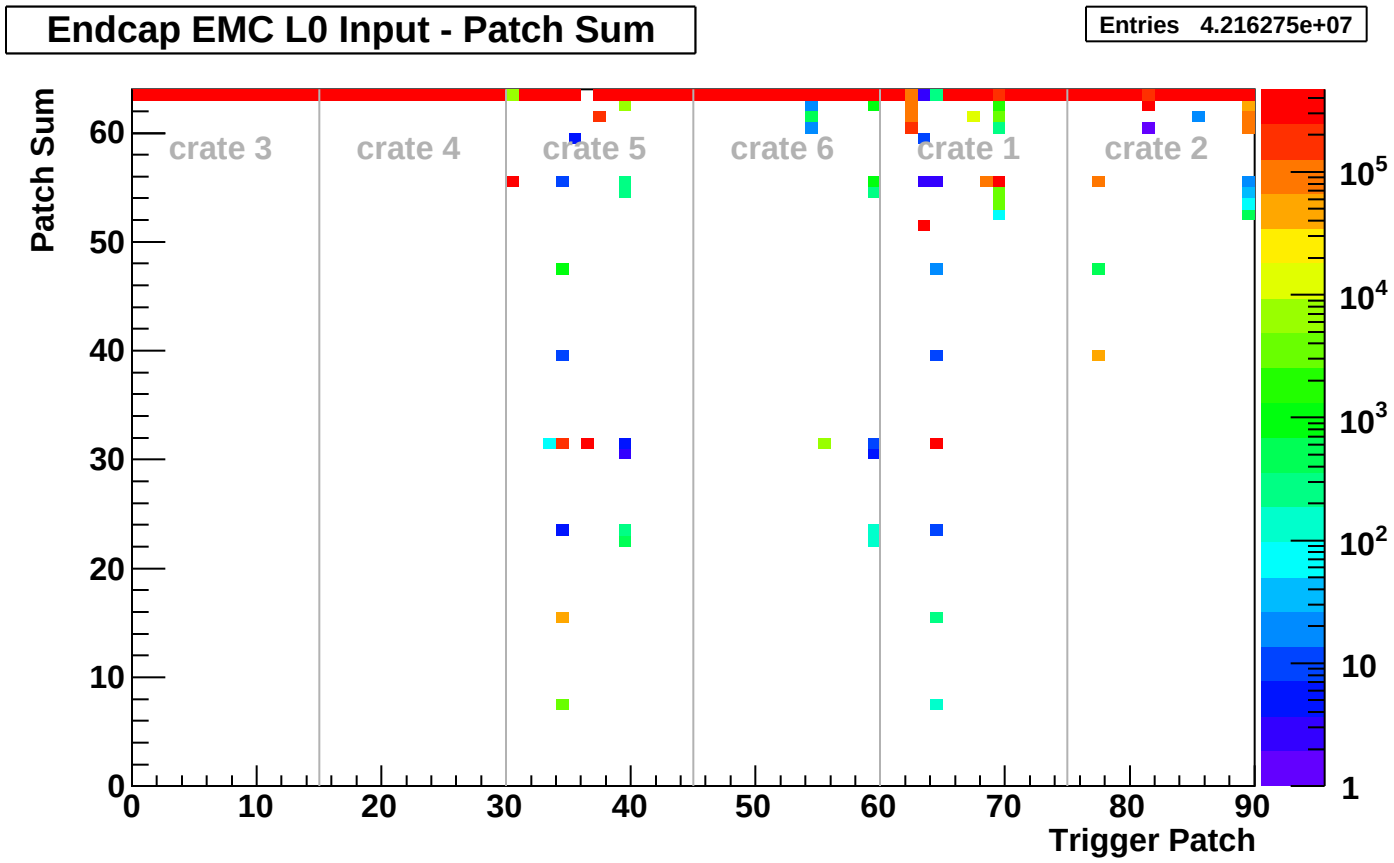

BunchId7Bit (JP1)
Entries 468475
10^3
10^2
0
20
40
60
80
100
120

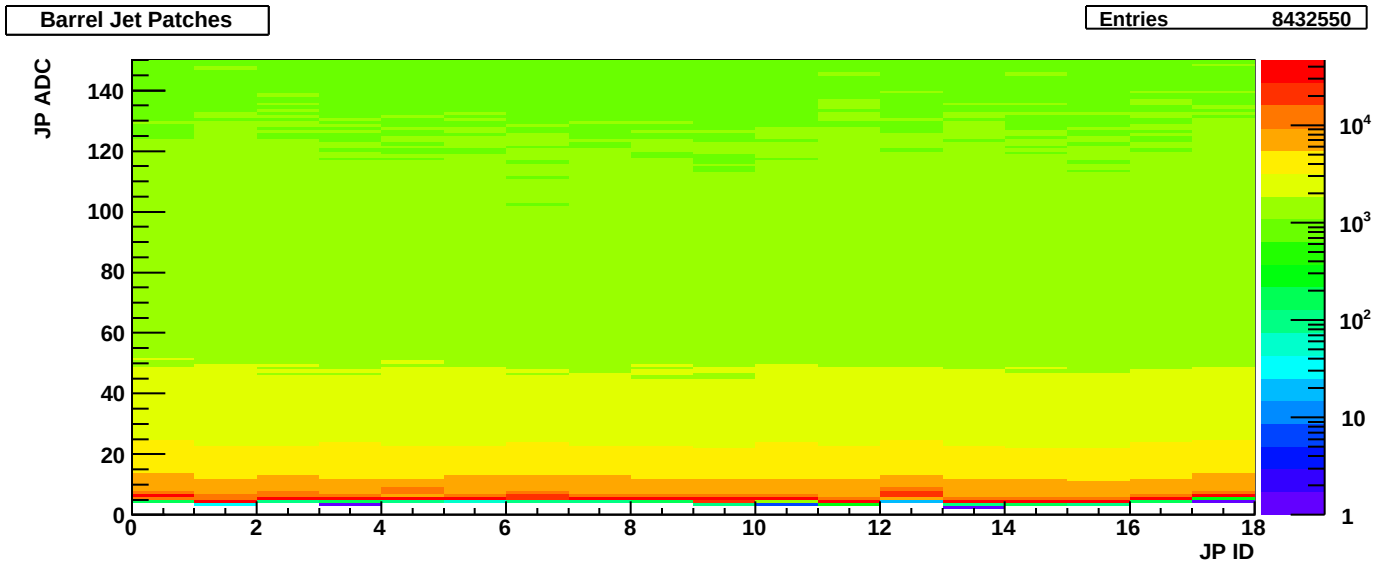

BunchId7Bit (JP2||AJP)
Entries 468475
10^3
10^2
0
20
40
60
80
100
120

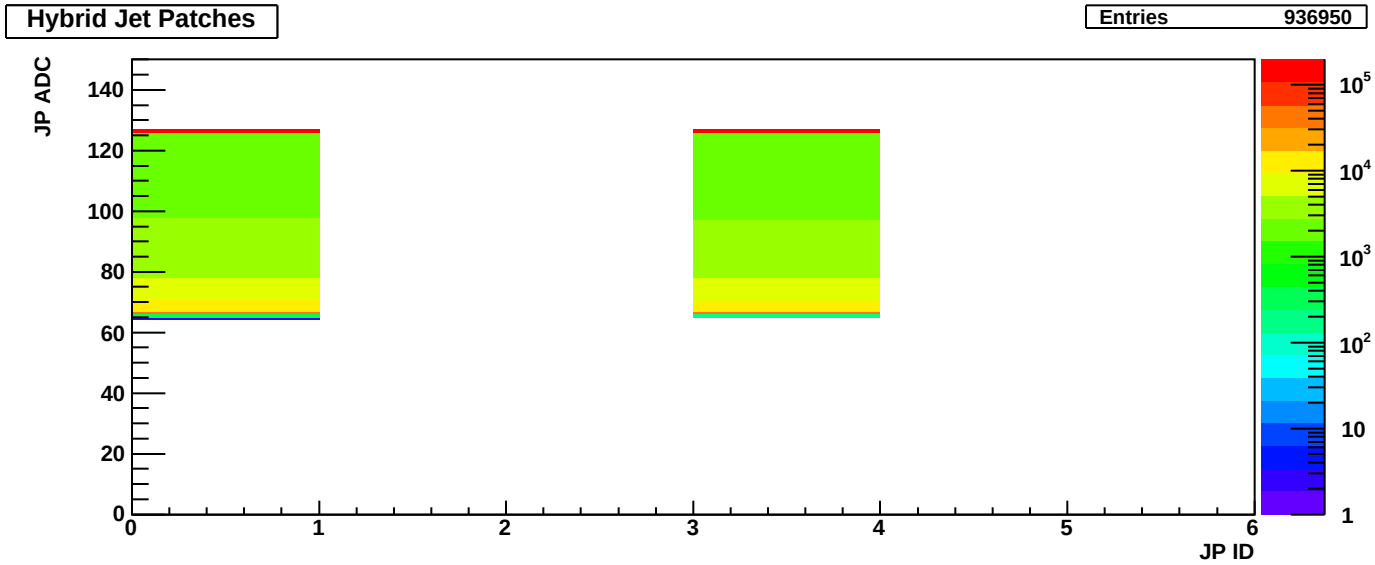

Barrel EMC L0 Input - High Tower
Entries 1.405425e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

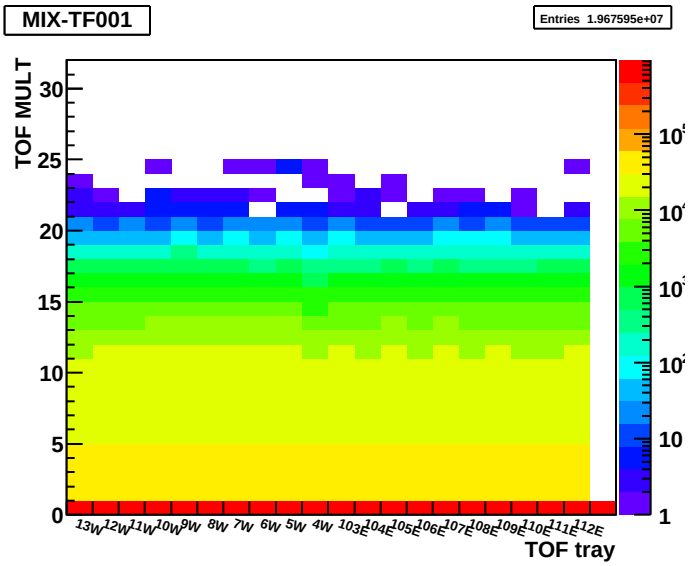

Barrel EMC L0 Input - Patch Sum
Entries 1.405425e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

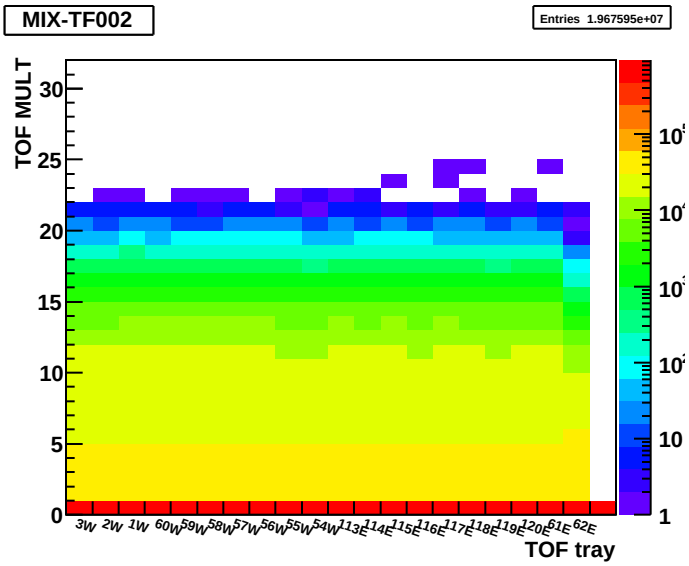

Endcap EMC L0 Input - High Tower
Entries 4.216275e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

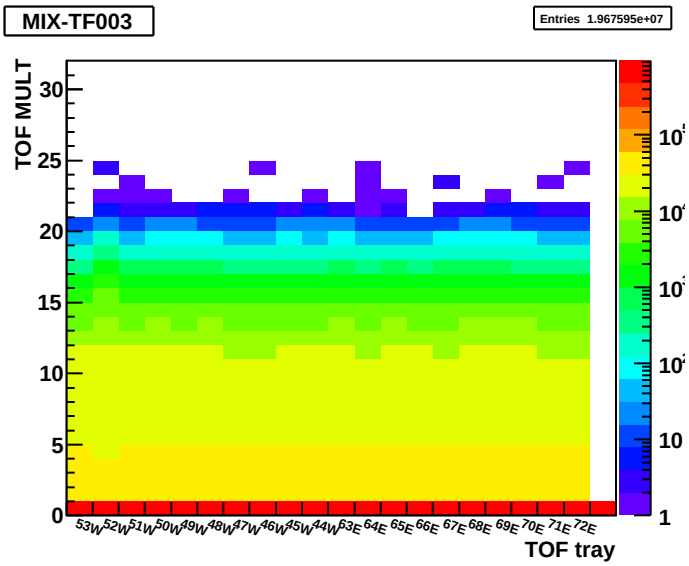

Endcap EMC L0 Input - Patch Sum
Entries 4.216275e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

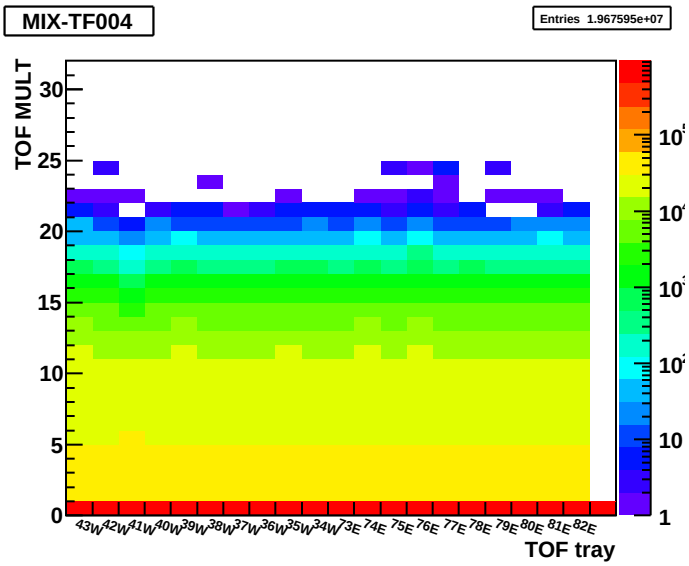

Barrel Jet Patches
Entries 8432550
JP ADC
JP ID

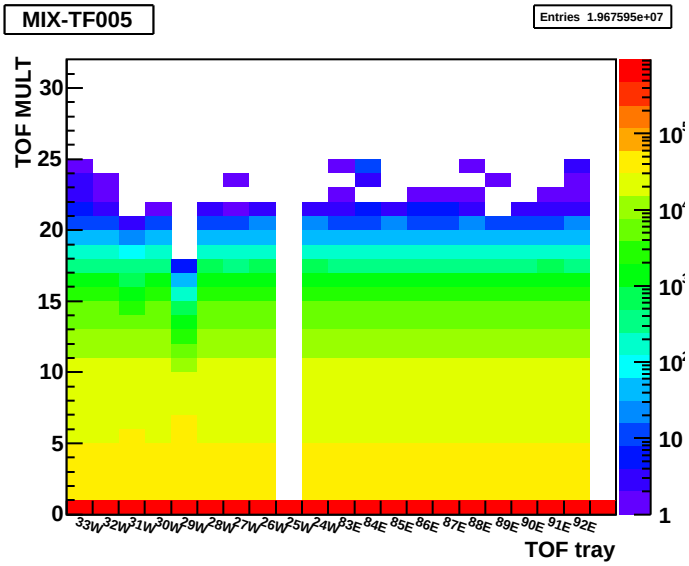

Hybrid Jet Patches
Entries 936950
JP ADC
JP ID

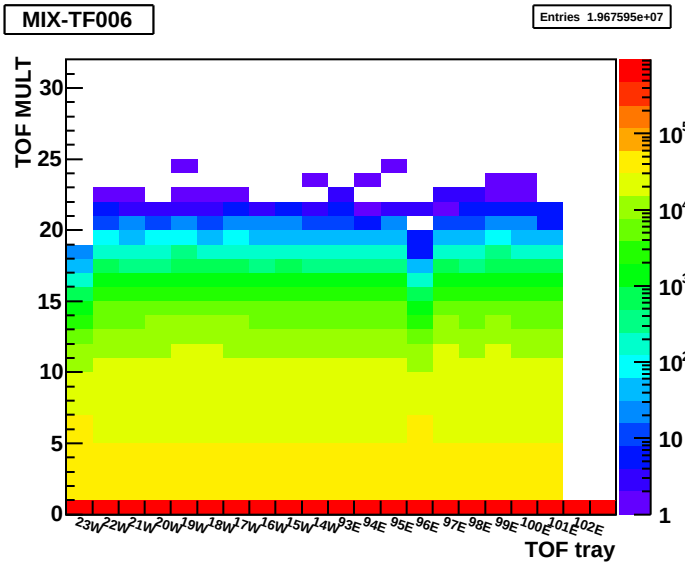

MIX-TF001
Entries 1.967595e+07
TOF MULT
TOF tray

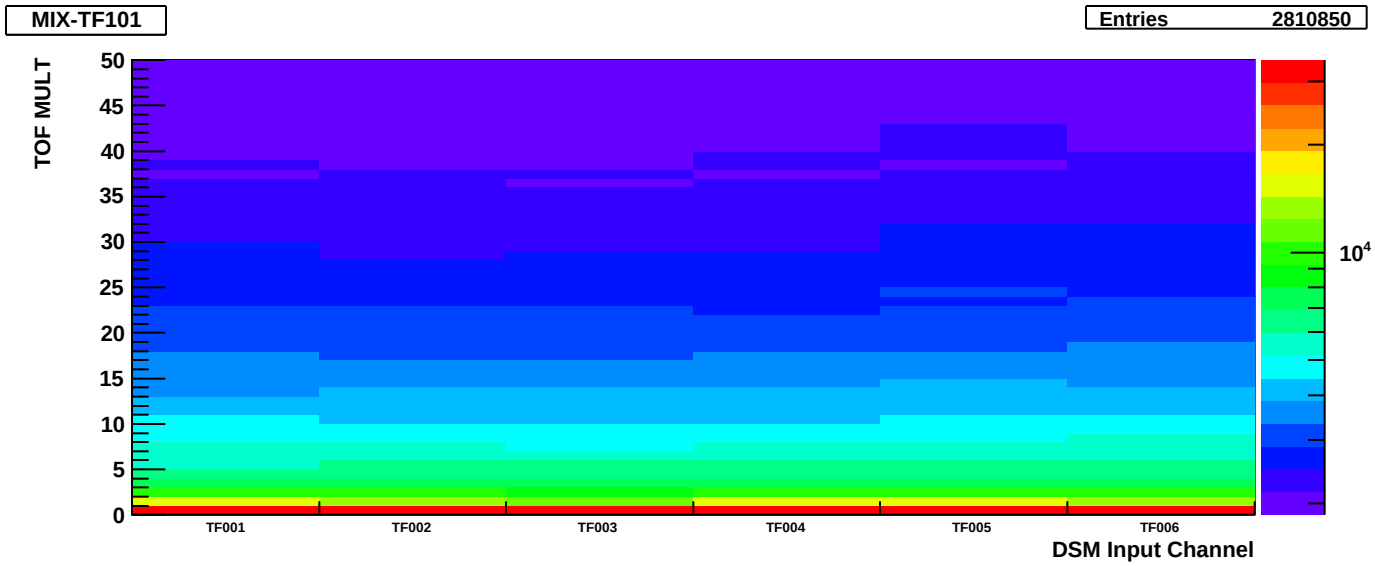

MIX-TF002
Entries 1.967595e+07
TOF MULT
TOF tray

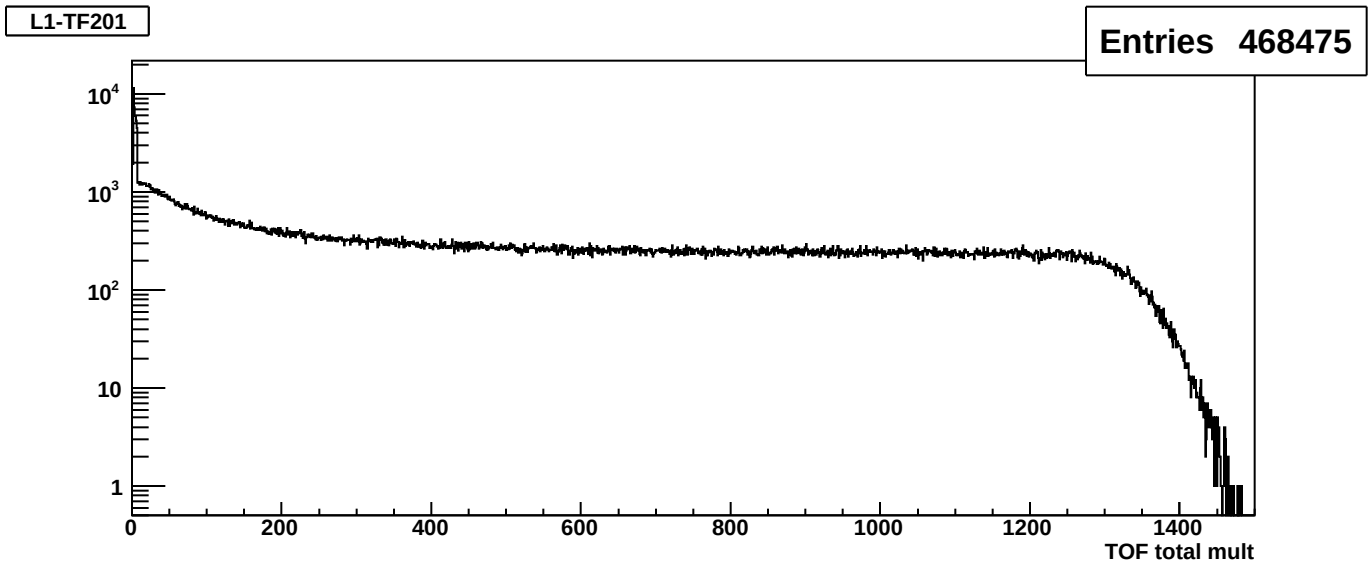

MIX-TF003
Entries 1.967595e+07
TOF MULT
TOF tray

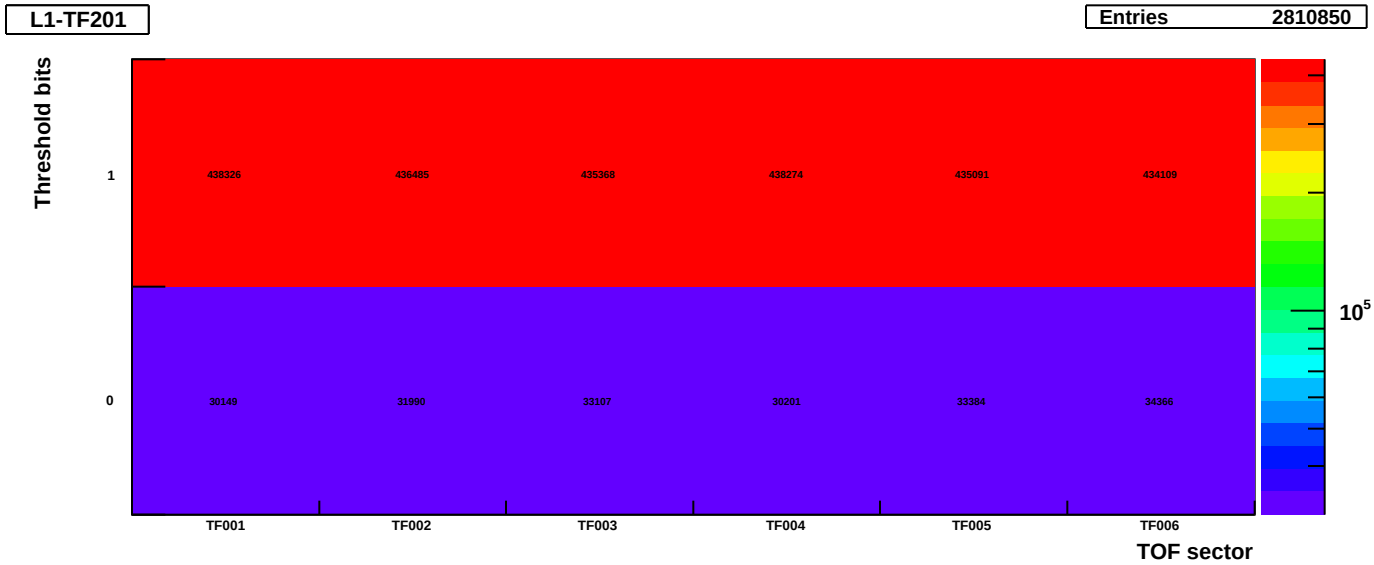

MIX-TF004
Entries 1.967595e+07
TOF MULT
TOF tray

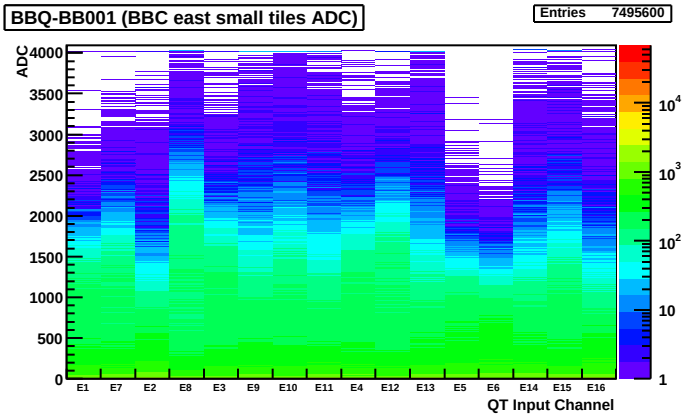

MIX-TF005
Entries 1.967595e+07
TOF MULT
TOF tray

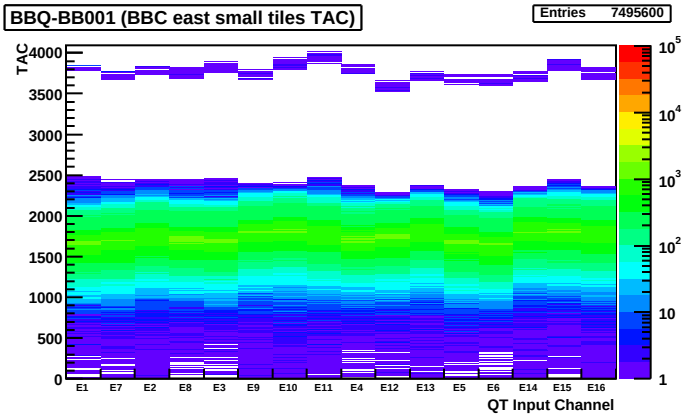

MIX-TF006
Entries 1.967595e+07
TOF MULT
TOF tray

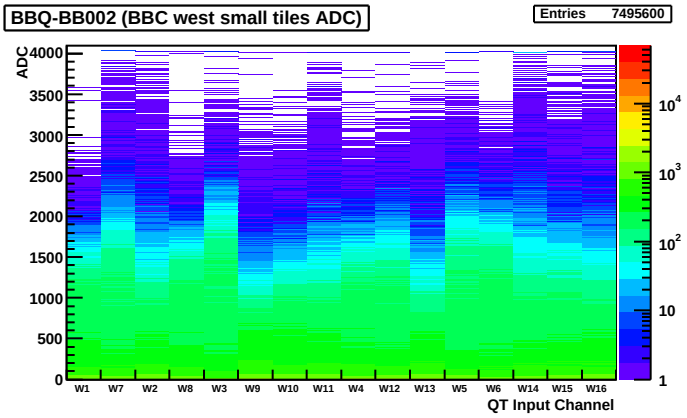

MIX-TF101
Entries 2810850
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

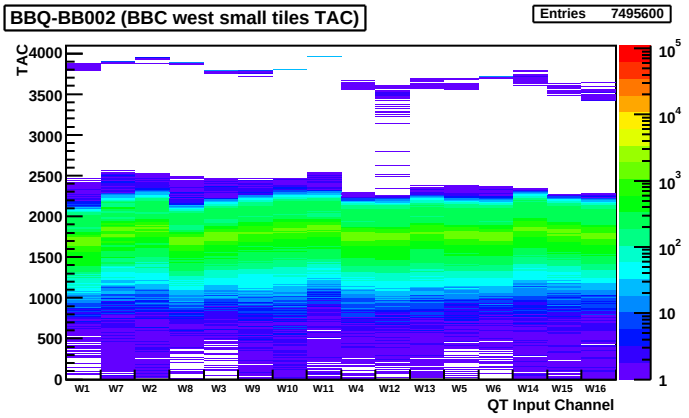

L1-TF201
Entries 468475
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

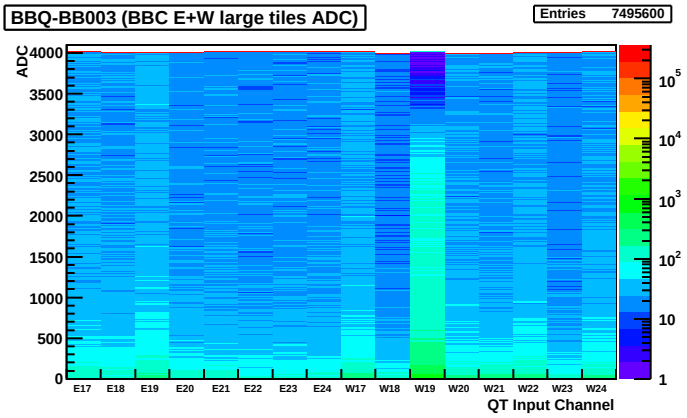

L1-TF201
Entries 2810850
Threshold bits
1
0
438326
436485
435368
438274
435091
434109
30149
31990
33107
30201
33384
34366
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

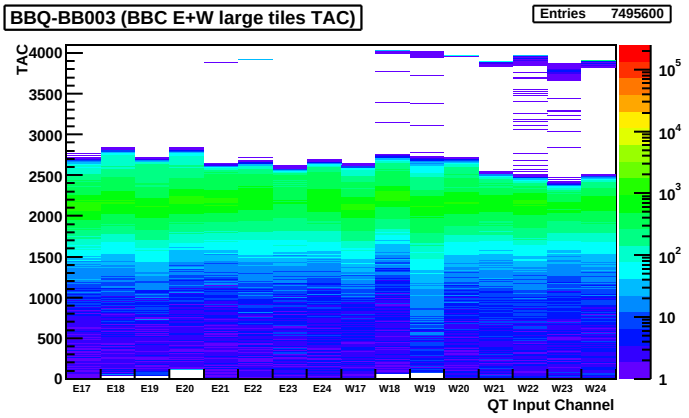

BBQ-BB001 (BBC east small tiles ADC)
Entries 7495600
ADC
QT Input Channel

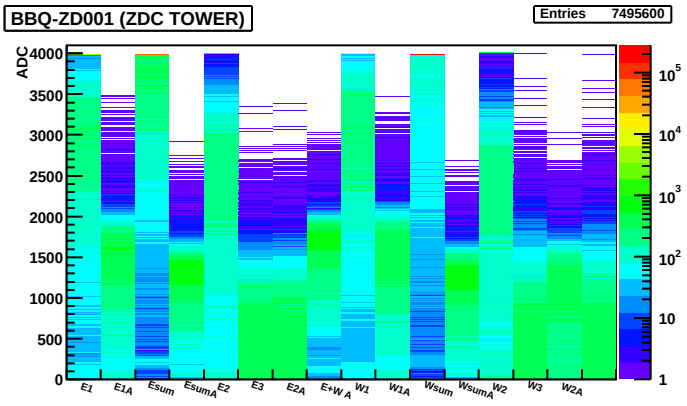

BBQ-BB001 (BBC east small tiles TAC)
Entries 7495600
TAC
QT Input Channel

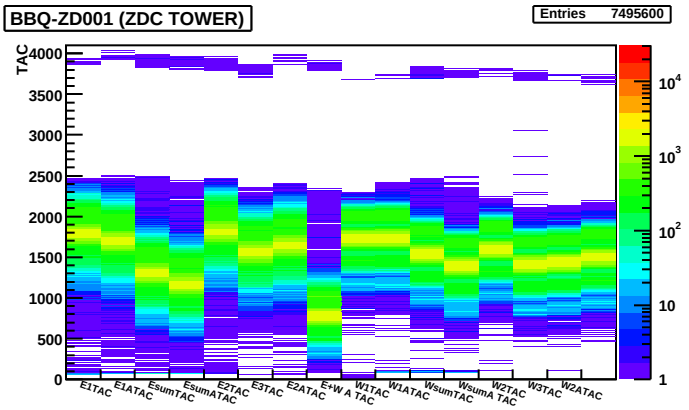

BBQ-BB002 (BBC west small tiles ADC)
Entries 7495600
ADC
QT Input Channel

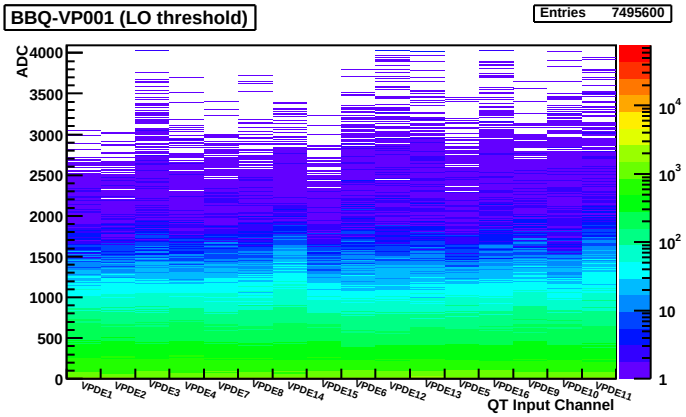

BBQ-BB002 (BBC west small tiles TAC)
Entries 7495600
TAC
QT Input Channel

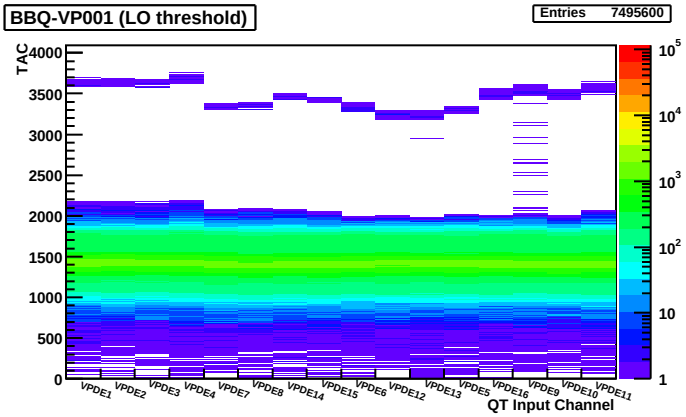

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7495600
ADC
QT Input Channel

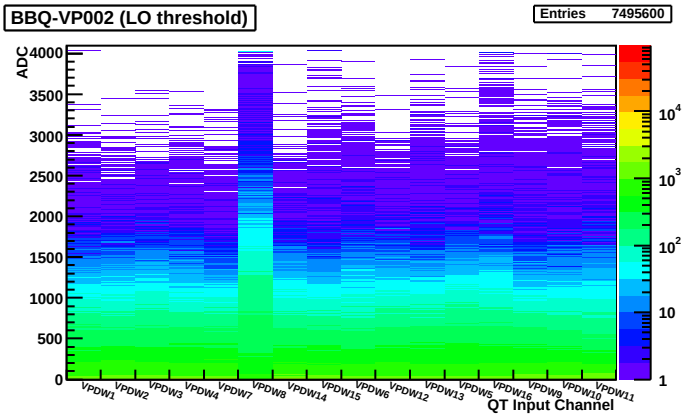

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7495600
TAC
QT Input Channel

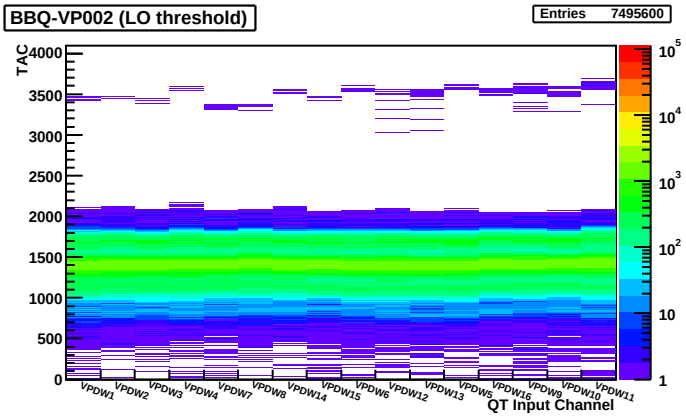

BBQ-ZD001 (ZDC TOWER)
Entries 7495600
ADC

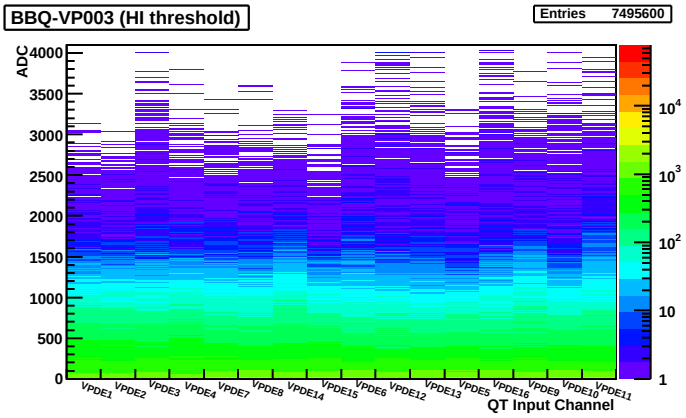

BBQ-ZD001 (ZDC TOWER)
Entries 7495600
TAC

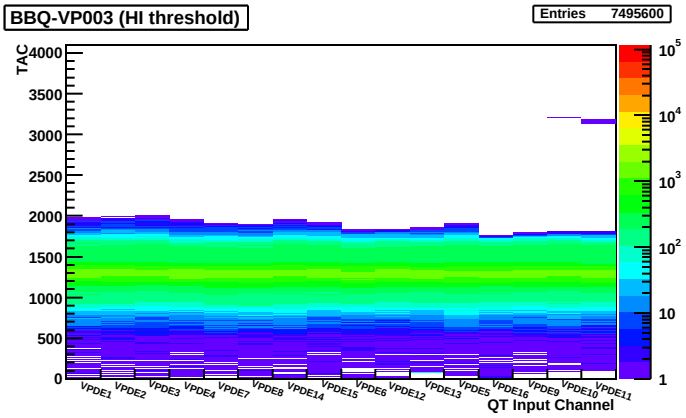

BBQ-VP001 (LO threshold)
Entries 7495600
ADC
QT Input Channel

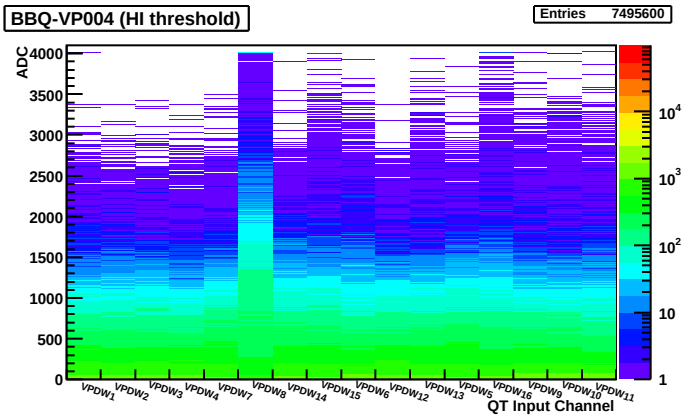

BBQ-VP001 (LO threshold)
Entries 7495600
TAC
QT Input Channel

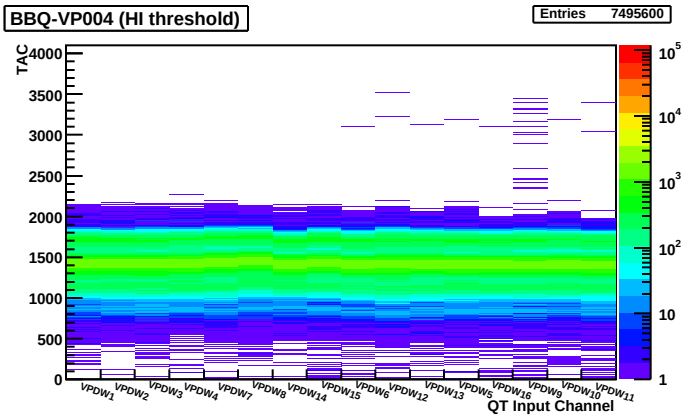

BBQ-VP002 (LO threshold)
Entries 7495600
ADC
QT Input Channel

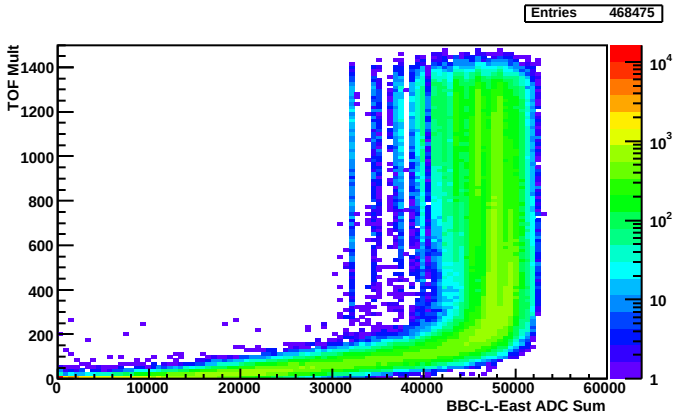

BBQ-VP002 (LO threshold)
Entries 7495600
TAC
QT Input Channel

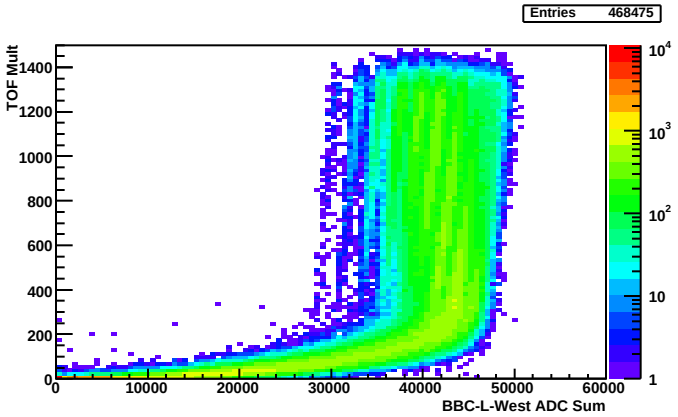

BBQ-VP003 (HI threshold)
Entries 7495600
ADC
QT Input Channel

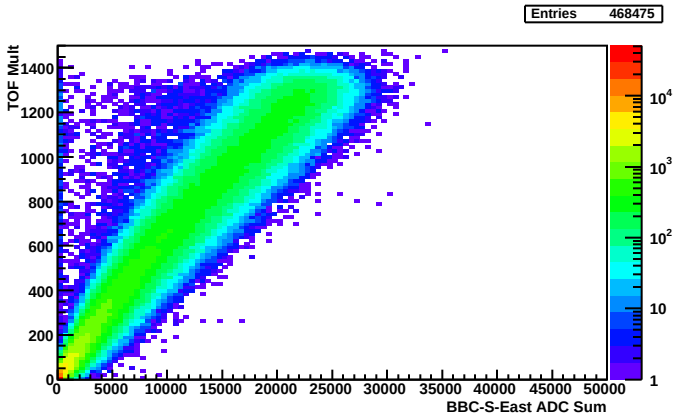

BBQ-VP003 (HI threshold)
Entries 7495600
TAC
QT Input Channel

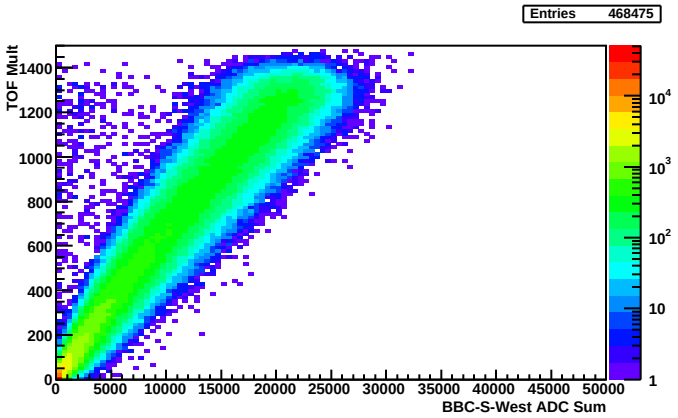

BBQ-VP004 (HI threshold)
Entries 7495600
ADC
QT Input Channel

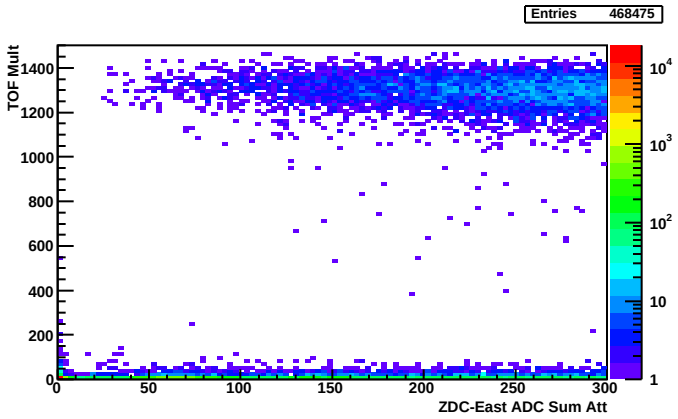

BBQ-VP004 (HI threshold)
Entries 7495600
TAC
QT Input Channel


Entries 468475
TOF Mult
BBC-L-East ADC Sum


Entries 468475
TOF Mult
BBC-L-West ADC Sum


Entries 468475
TOF Mult
BBC-S-East ADC Sum


Entries 468475
TOF Mult
BBC-S-West ADC Sum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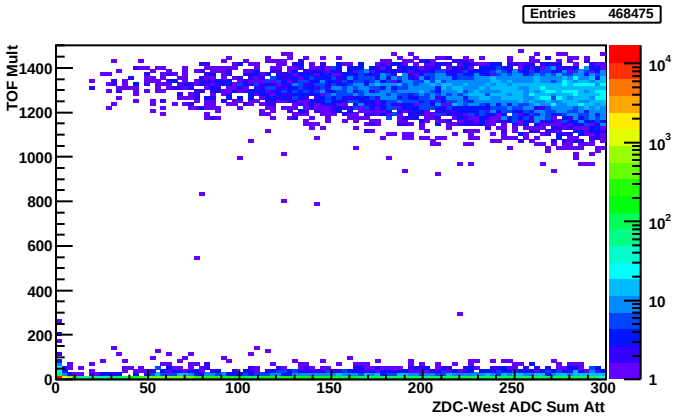
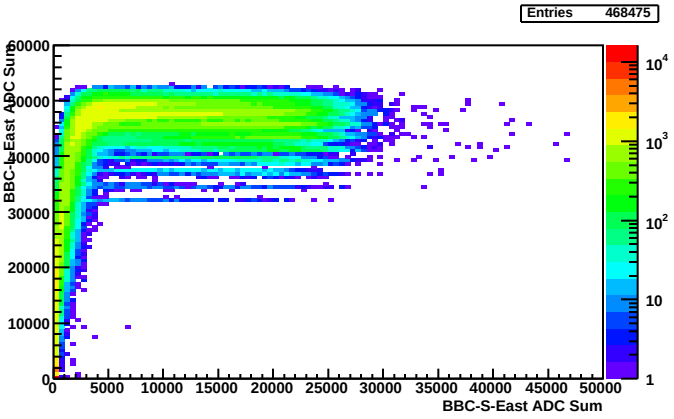
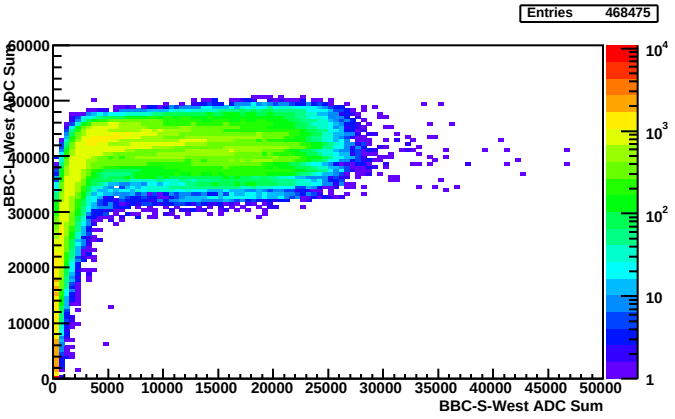
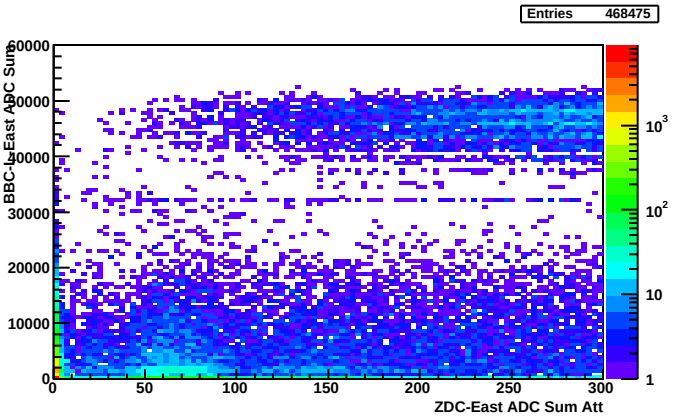
TOF Mult
ZDC-East ADC Sum Att


Entries 468475
TOF Mult
ZDC-West ADC Sum Att


Entries 468475
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 468475
BBC-L-West ADC Sum
BBC-S-West ADC Sum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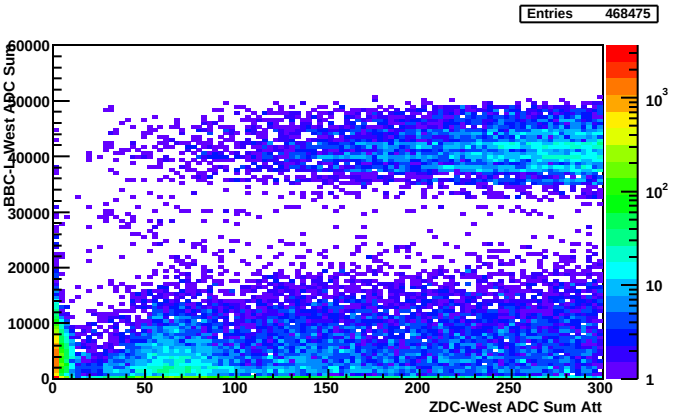
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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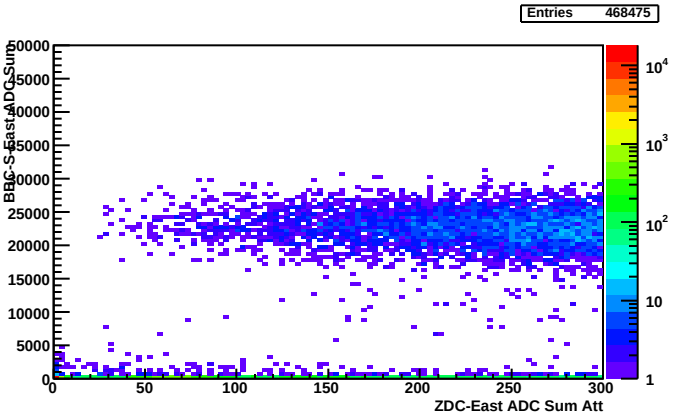
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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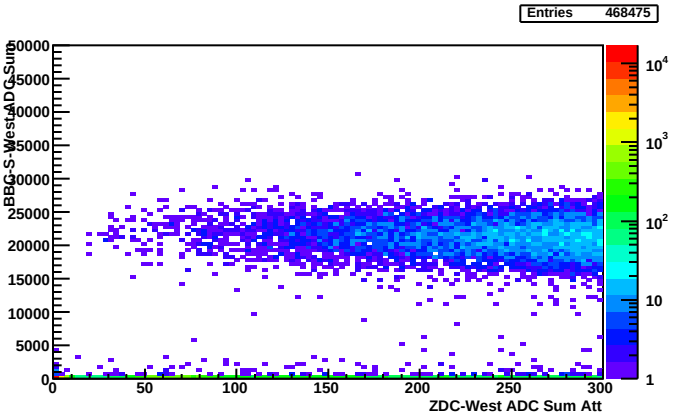
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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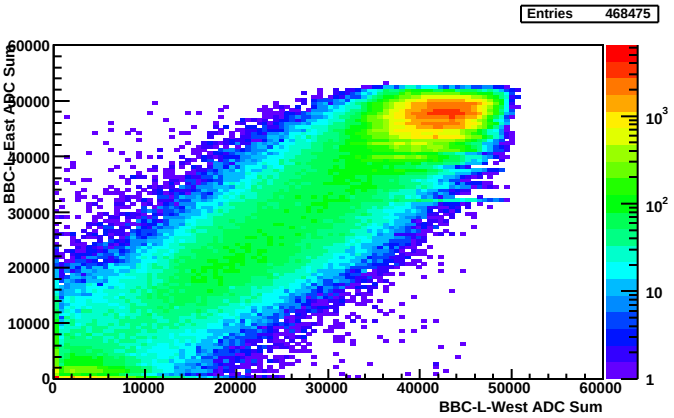
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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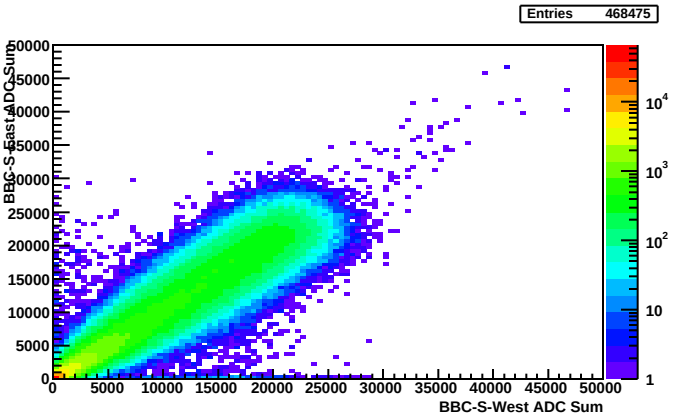
BBC-L-East ADC Sum
BBC-L-West ADC Sum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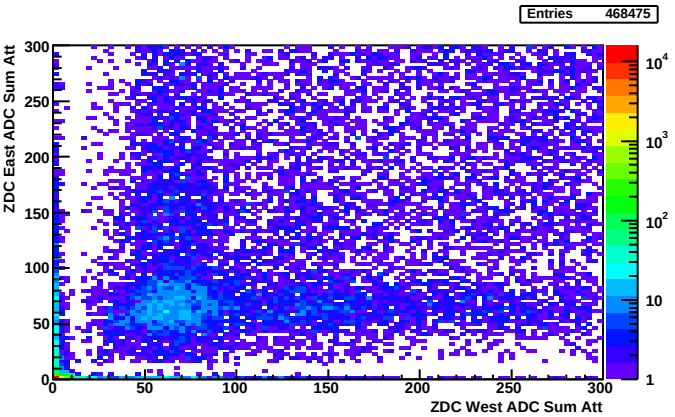
BBC-S-East ADC Sum
BBC-S-West ADC Sum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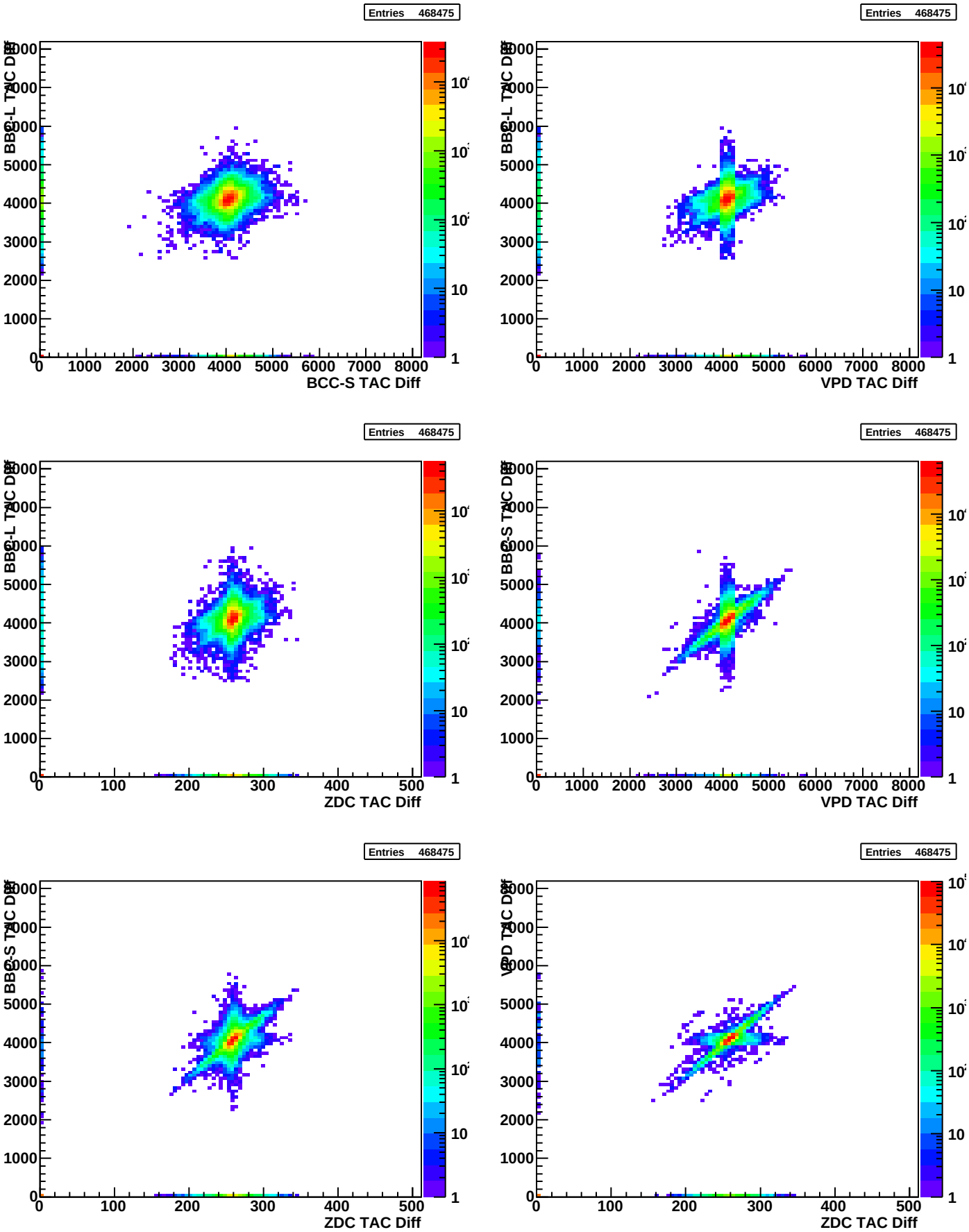
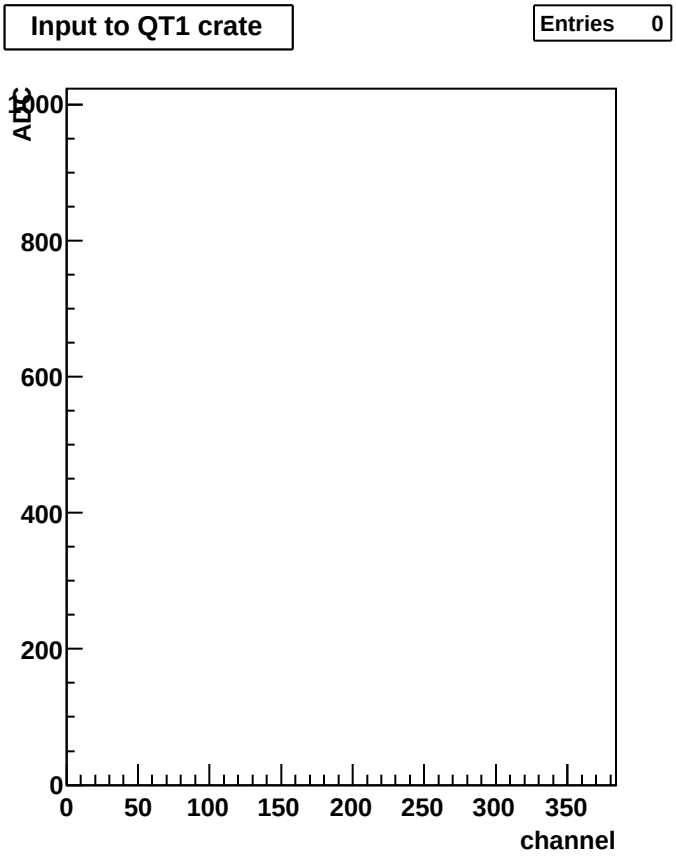
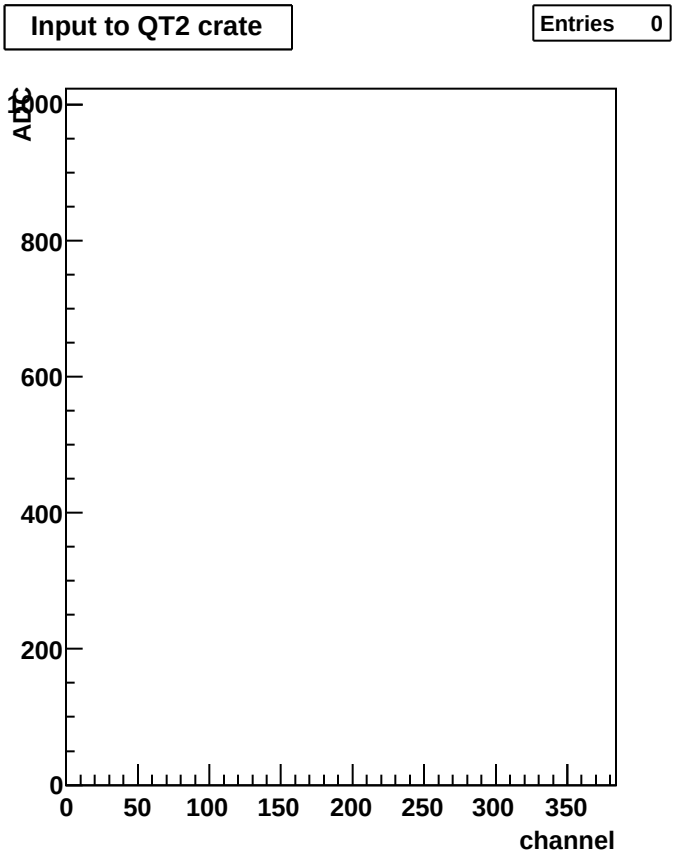
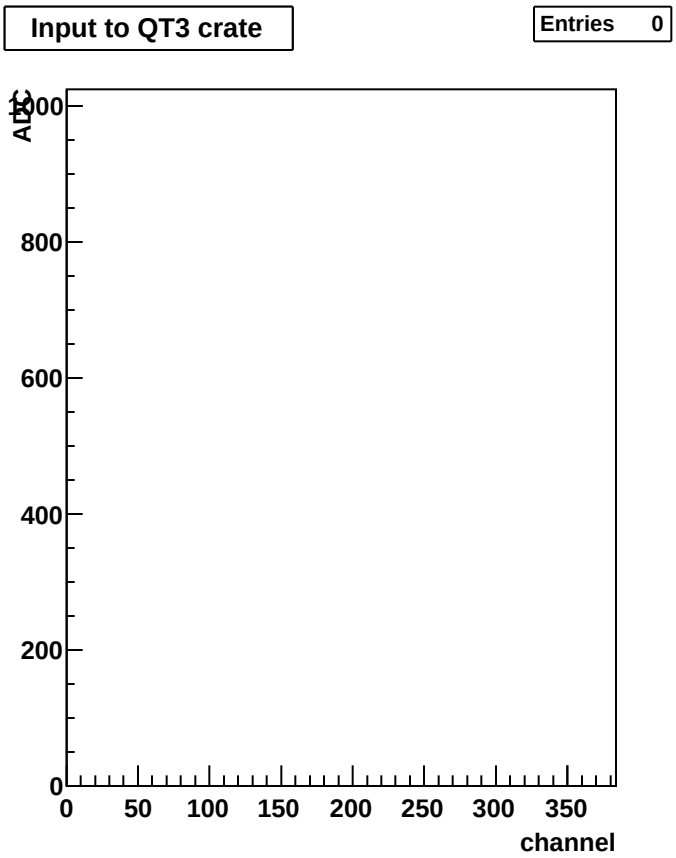
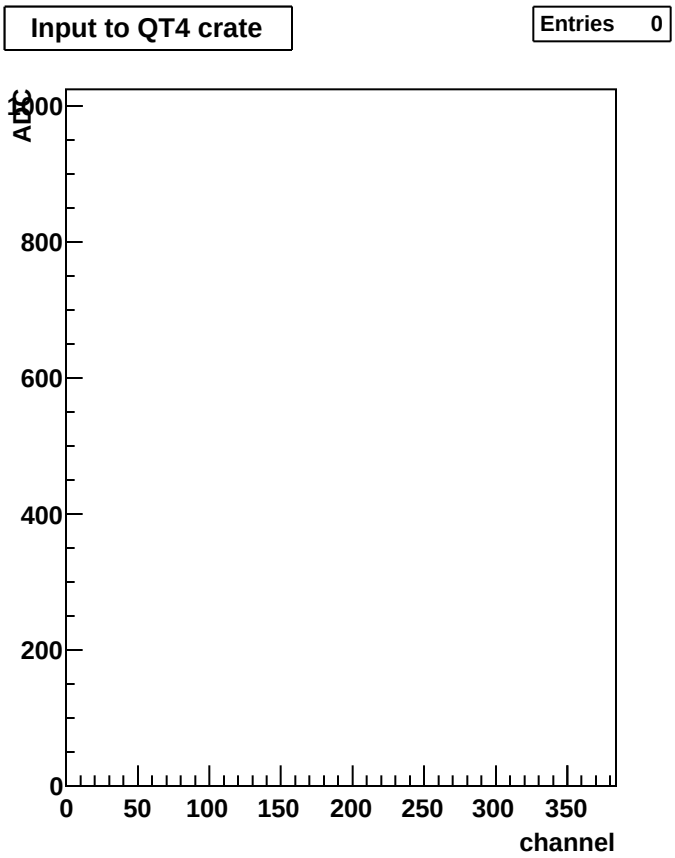
ZDC East ADC Sum Att
ZDC West ADC Sum Att

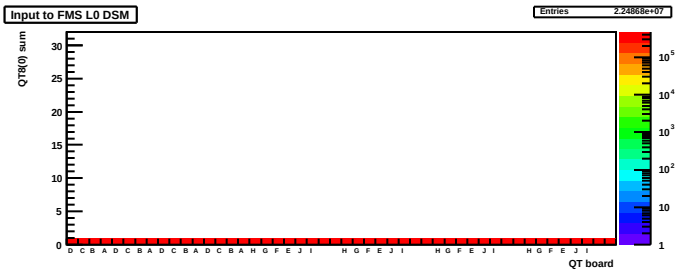

Entries 468475
BBC-L TAC Diff
BCC-S TAC Diff
Entries 468475
BBC-L TAC Diff
VPD TAC Diff
Entries 468475
BBC-L TAC Diff
ZDC TAC Diff
Entries 468475
BBC-S TAC Diff
VPD TAC Diff
Entries 468475
BBC-S TAC Diff
ZDC TAC Diff
Entries 468475
VPD TAC Diff
ZDC TAC Diff

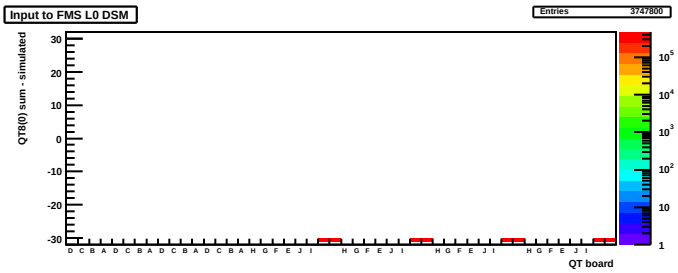

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

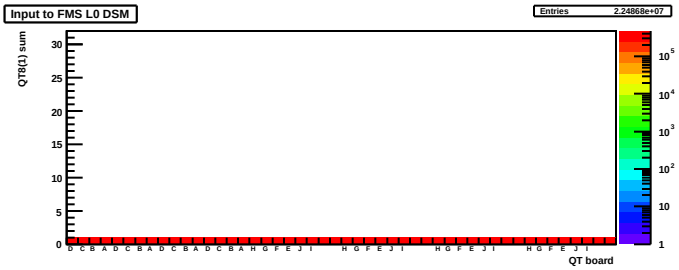

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

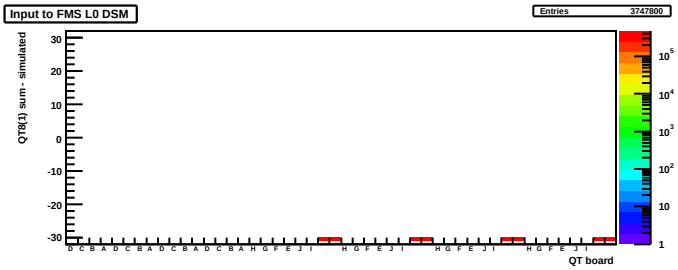

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

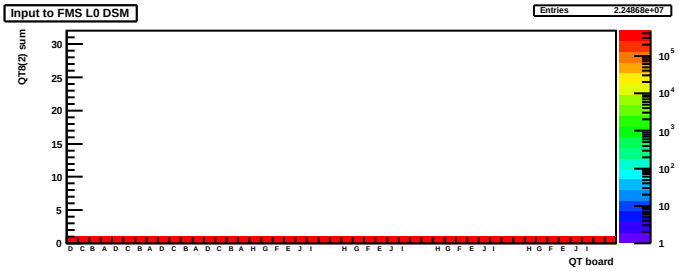

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

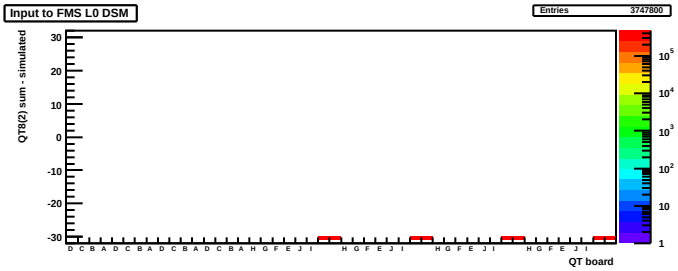

Input to FMS L0 DSM
Entries 2.24868e+07
QT8(0) sum
QT board

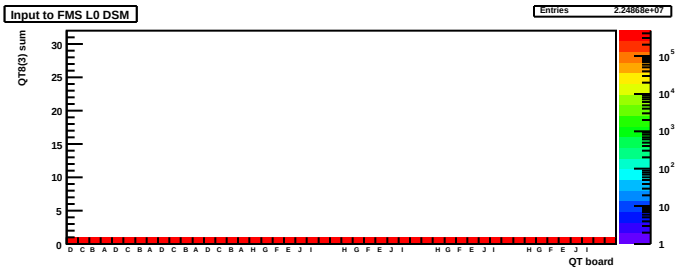

Input to FMS L0 DSM
Entries 3747800
QT8(0) sum - simulated
QT board

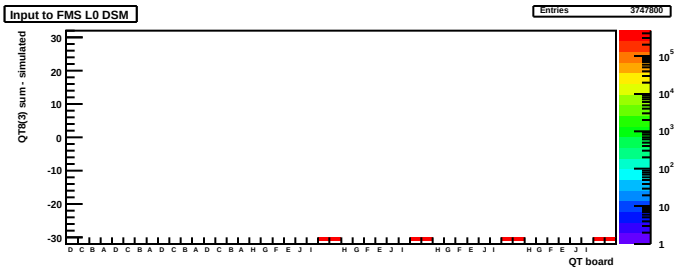

Input to FMS L0 DSM
Entries 2.24868e+07
QT8(1) sum
QT board

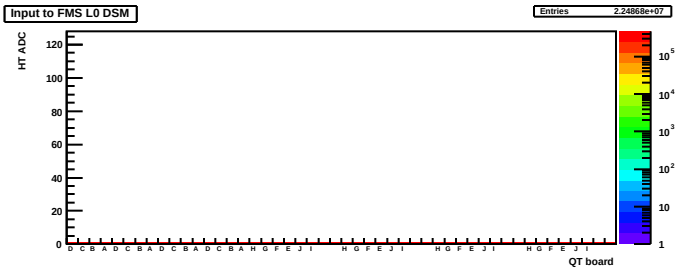

Input to FMS L0 DSM
Entries 3747800
QT8(1) sum - simulated
QT board

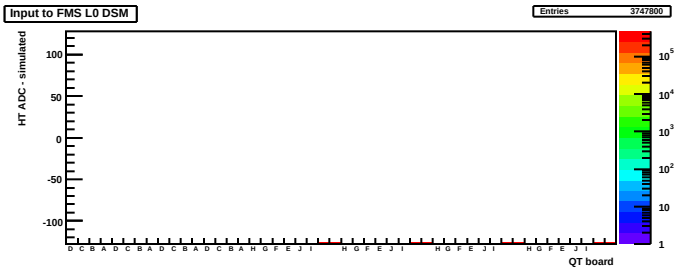

Input to FMS L0 DSM
Entries 2.24868e+07
QT8(2) sum
QT board

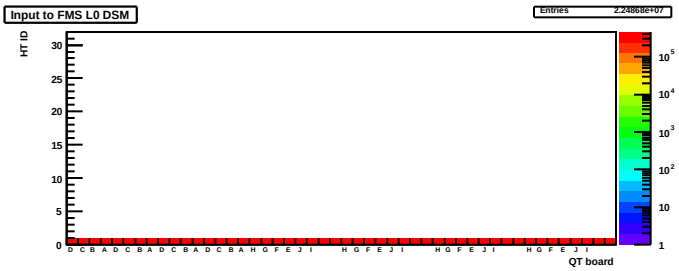

Input to FMS L0 DSM
Entries 3747800
QT8(2) sum - simulated
QT board

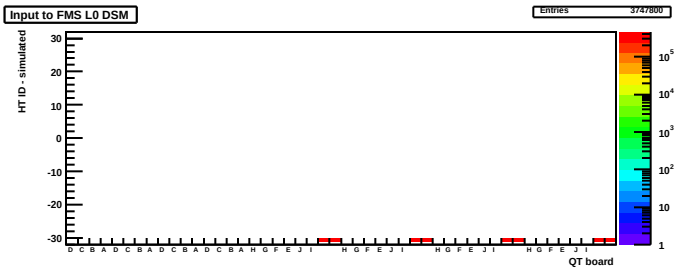

Input to FMS L0 DSM
Entries 2.24868e+07
QT8(3) sum
QT board

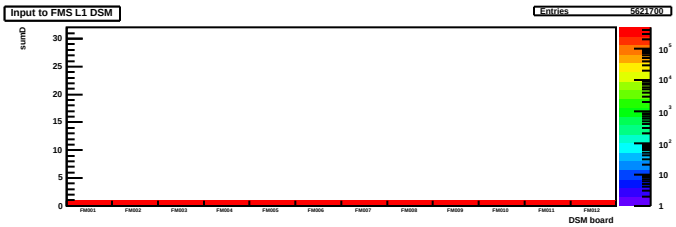

Input to FMS L0 DSM
Entries 3747800
QT8(3) sum - simulated
QT board

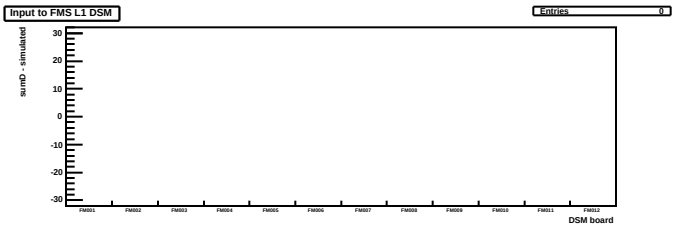

Input to FMS L0 DSM
Entries 2.24868e+07
HT ADC
QT board

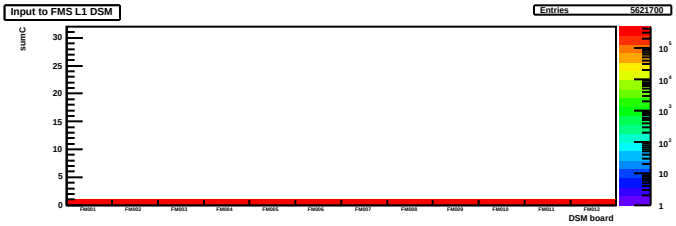

Input to FMS L0 DSM
Entries 3747800
HT ADC - simulated
QT board

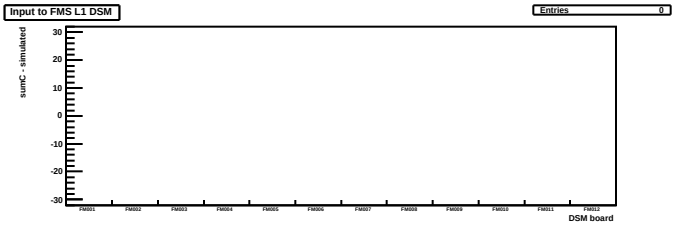

Input to FMS L0 DSM
Entries 2.24868e+07
HT ID
QT board

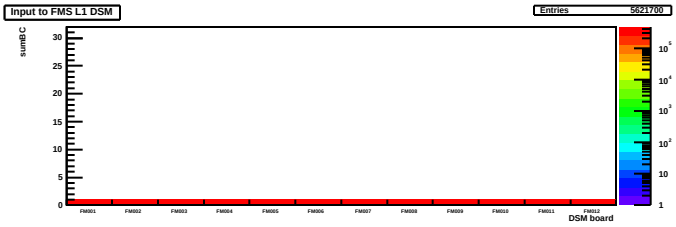

Input to FMS L0 DSM
Entries 3747800
HT ID - simulated
QT board

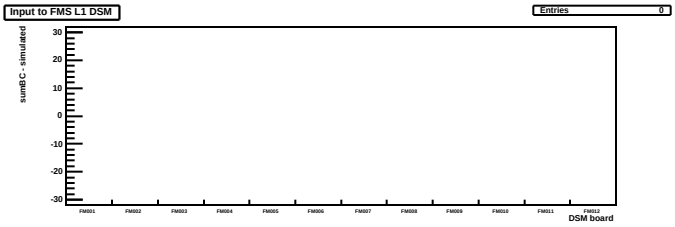

Input to FMS L1 DSM
Entries 5621700
sumD
DSM board

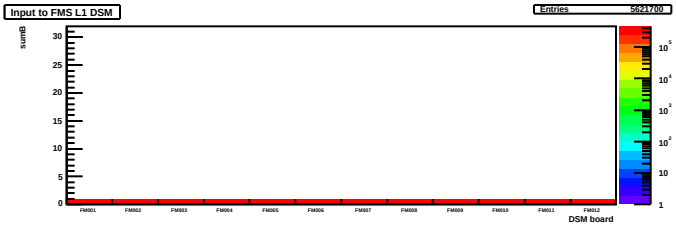

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

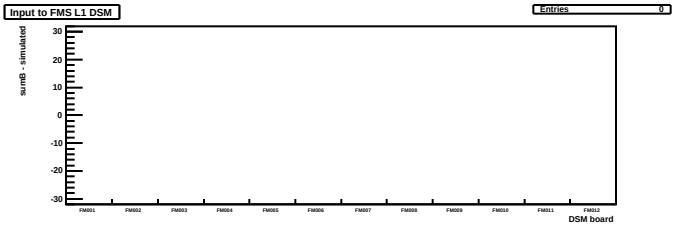

Input to FMS L1 DSM
Entries 5621700
sumC
DSM board

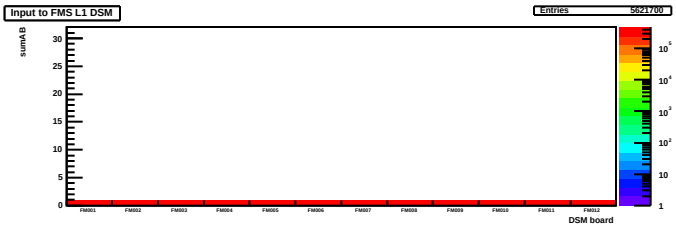

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

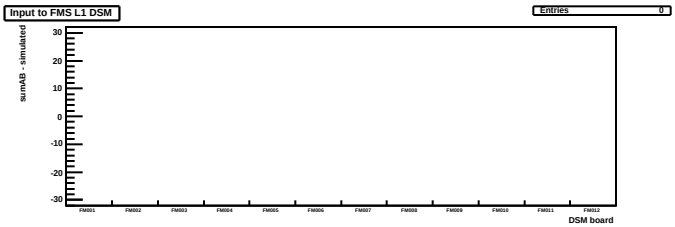

Input to FMS L1 DSM
Entries 5621700
sumBC
DSM board

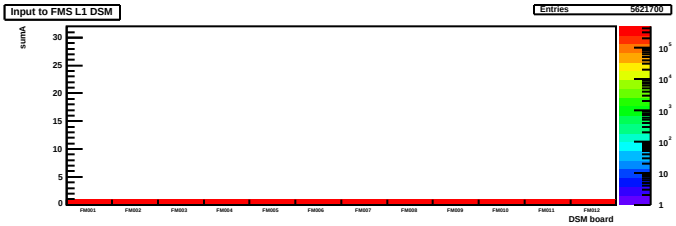

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

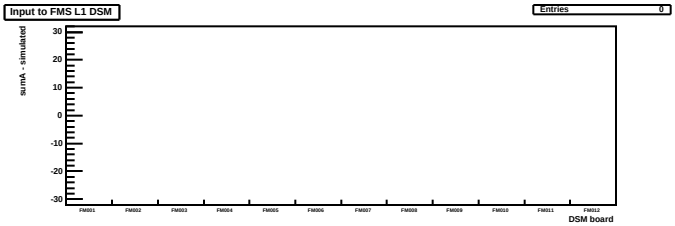

Input to FMS L1 DSM
Entries 5621700
sumB
DSM board

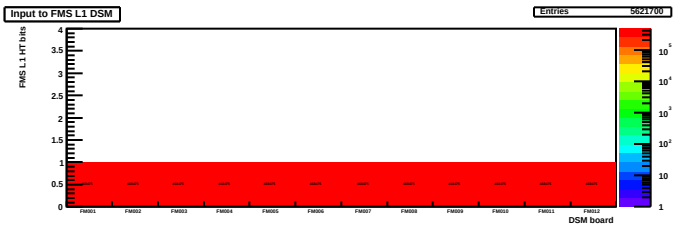

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

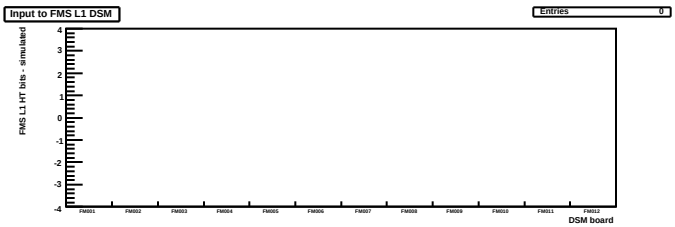

Input to FMS L1 DSM
Entries 5621700
sumAB
DSM board

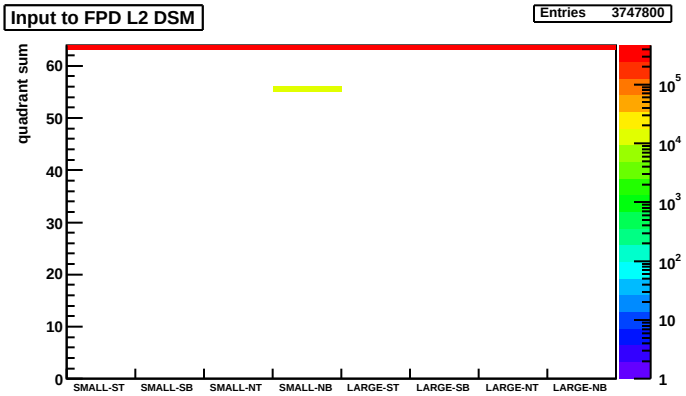

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

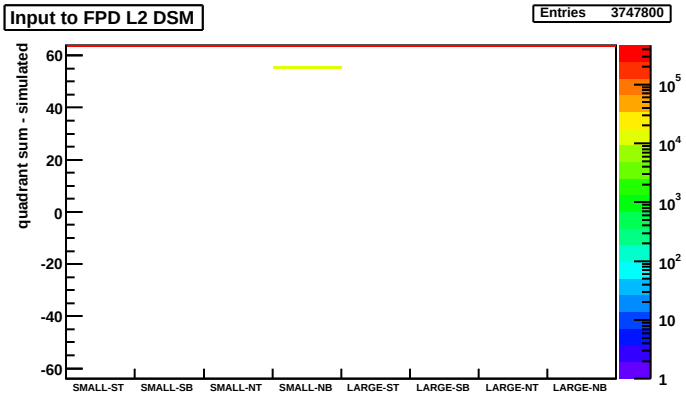

Input to FMS L1 DSM
Entries 5621700
sumA
DSM board

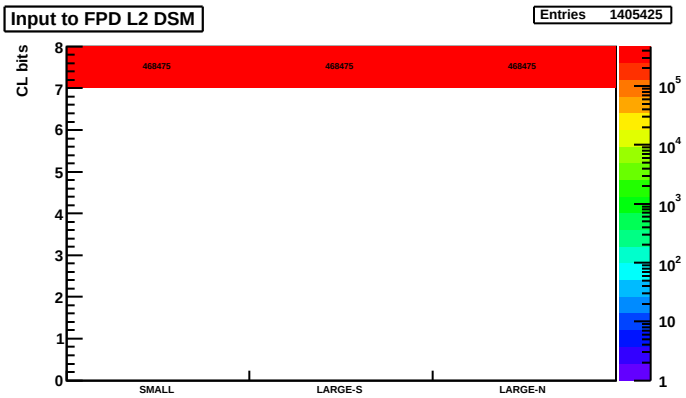

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

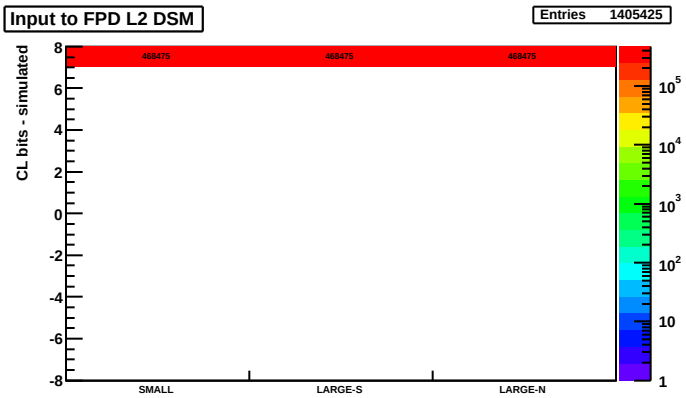

Input to FMS L1 DSM
Entries 5621700
FMS L1 HT bits
DSM board

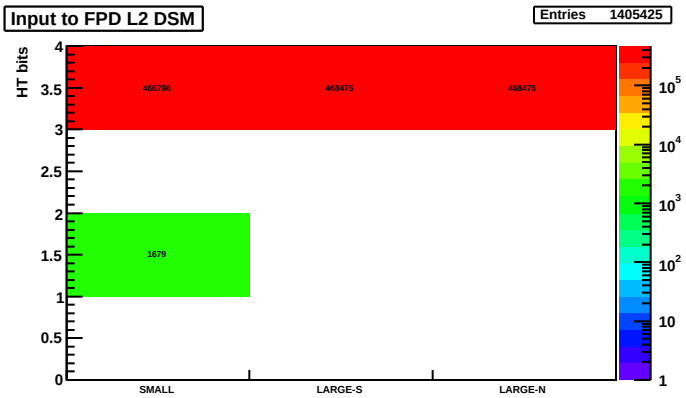

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

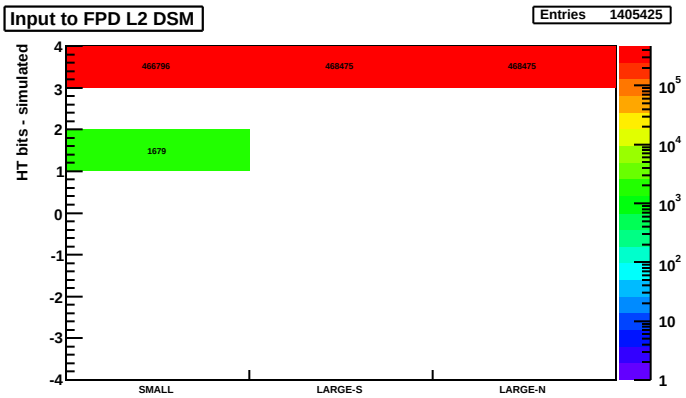

Input to FPD L2 DSM
Entries 3747800
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

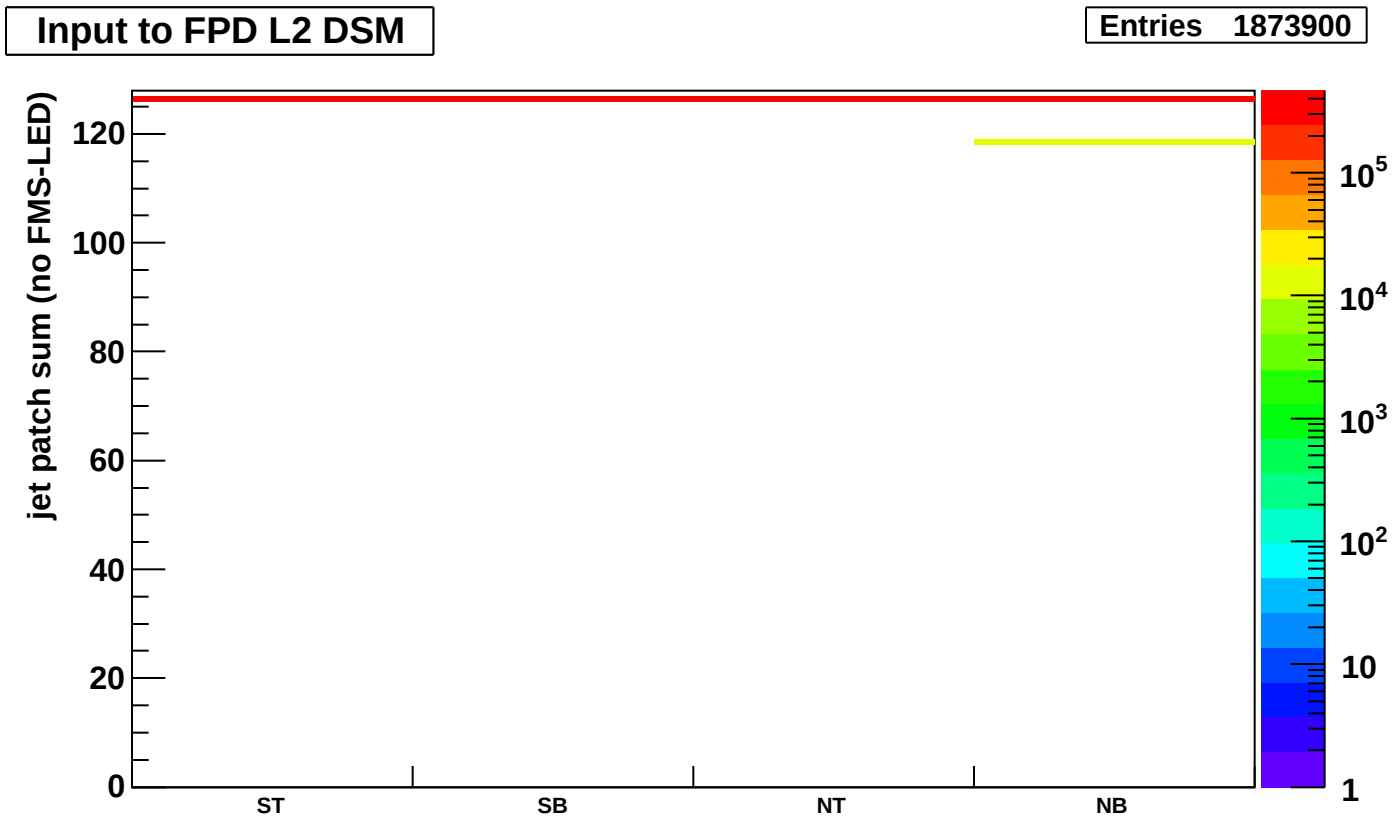

Input to FPD L2 DSM
Entries 3747800
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

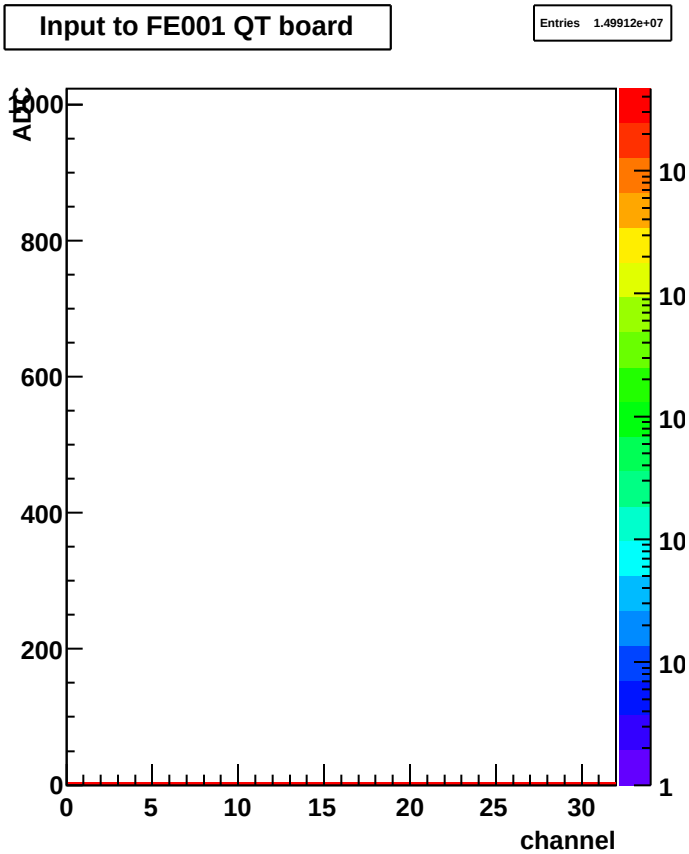

Input to FPD L2 DSM
Entries 1405425
CL bits
468475
468475
468475
SMALL
LARGE-S
LARGE-N

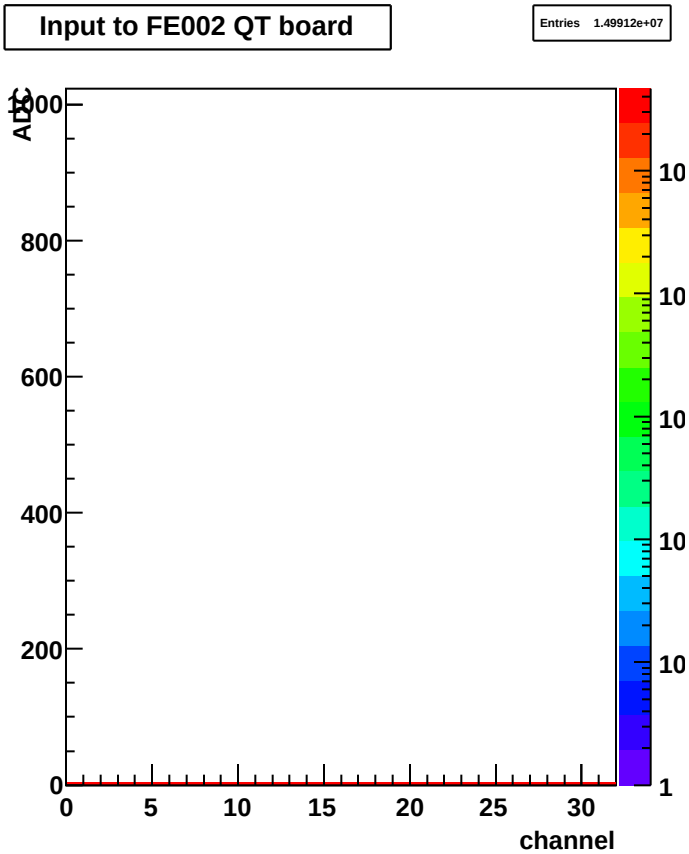

Input to FPD L2 DSM
Entries 1405425
CL bits - simulated
468475
468475
468475
SMALL
LARGE-S
LARGE-N

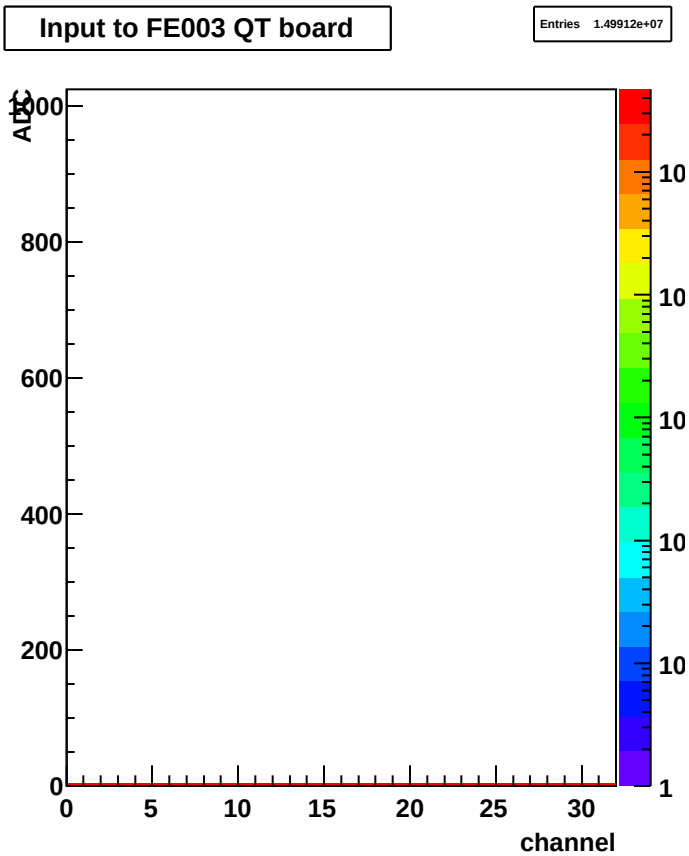

Input to FPD L2 DSM
Entries 1405425
HT bits
466796
468475
468475
1679
SMALL
LARGE-S
LARGE-N

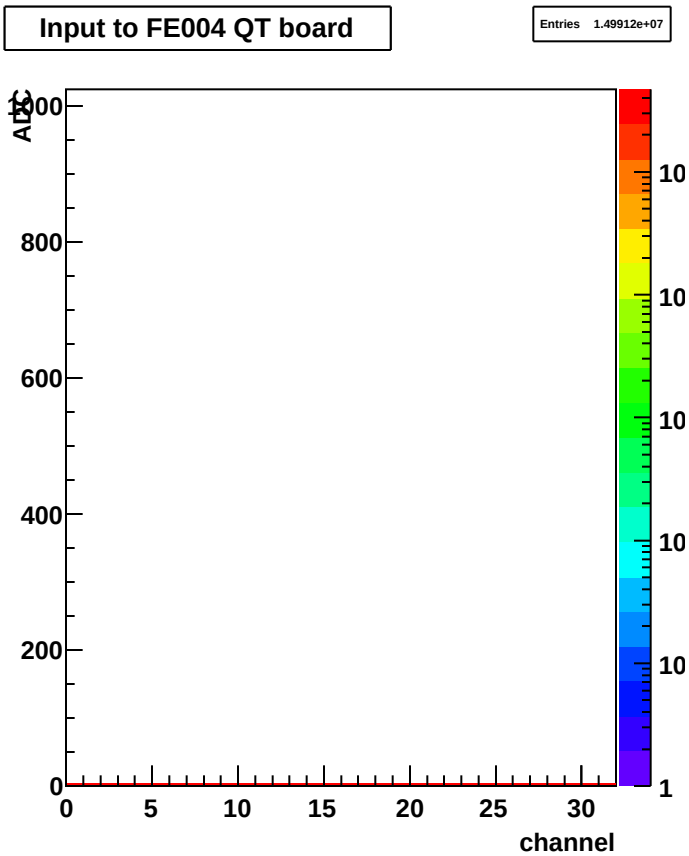

Input to FPD L2 DSM
Entries 1405425
HT bits - simulated
466796
468475
468475
1679
SMALL
LARGE-S
LARGE-N

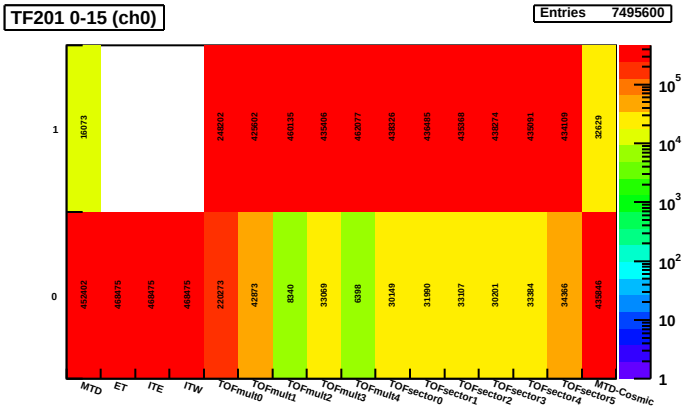

Input to FPD L2 DSM
Entries 1873900
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

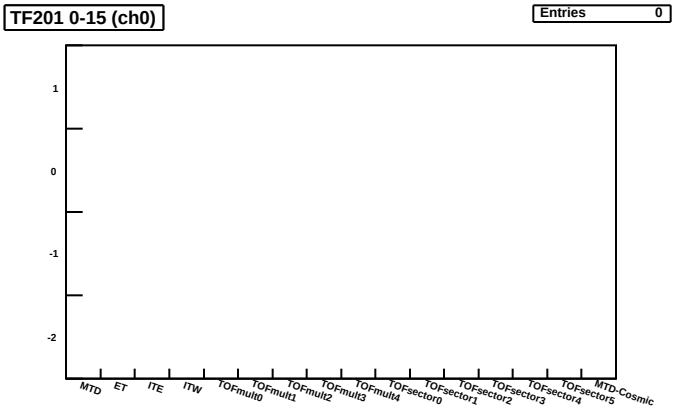

Input to FE001 QT board
Entries 1.49912e+07
ADC
channel

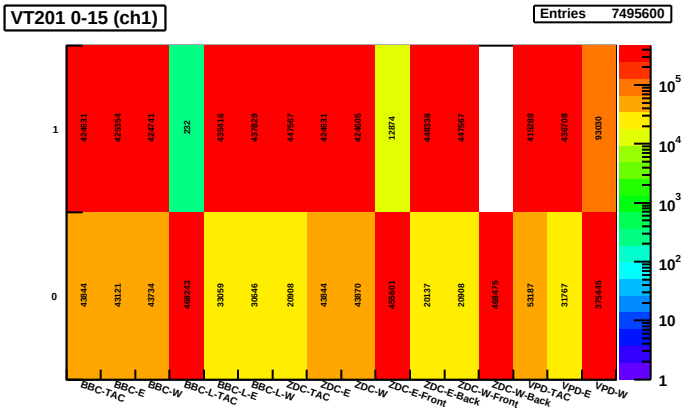

Input to FE002 QT board
Entries 1.49912e+07
ADC
channel

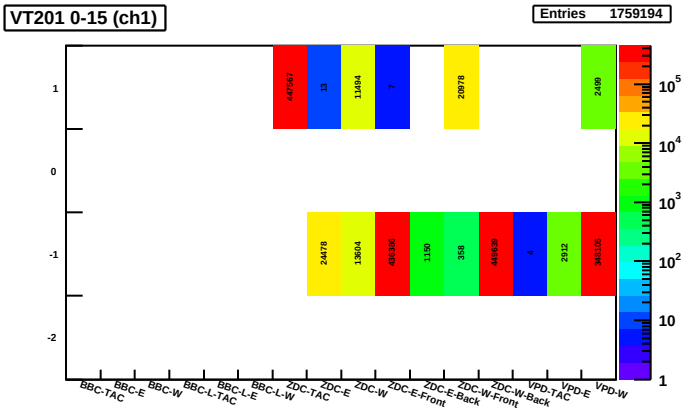

Input to FE003 QT board
Entries 1.49912e+07
ADC
channel

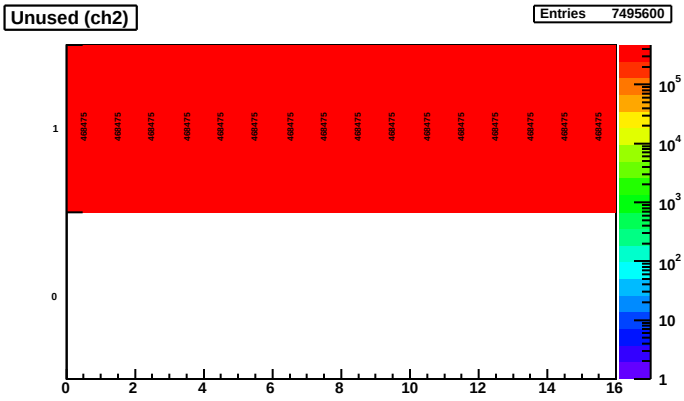

Input to FE004 QT board
Entries 1.49912e+07
ADC
channel

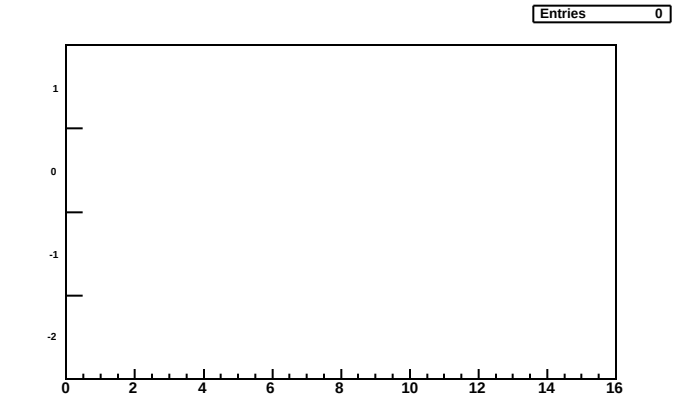

TF201 0-15 (ch0)
Entries 7495600
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

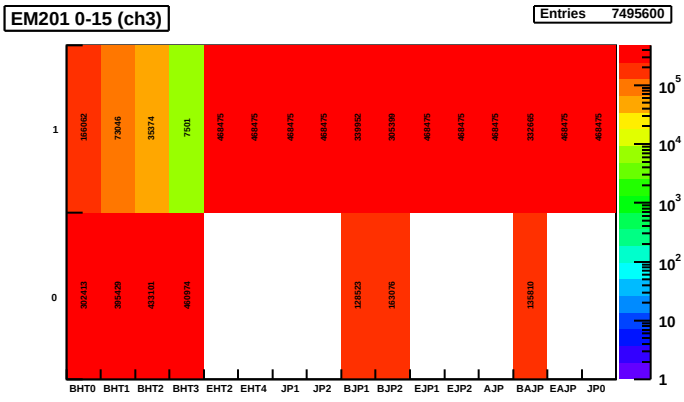

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

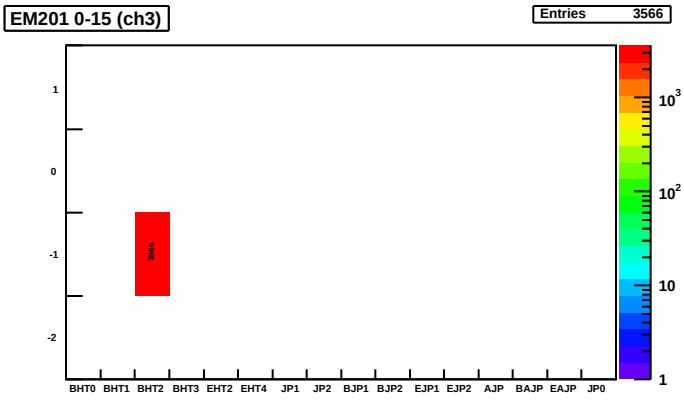

VT201 0-15 (ch1)
Entries 7495600
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1759194
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

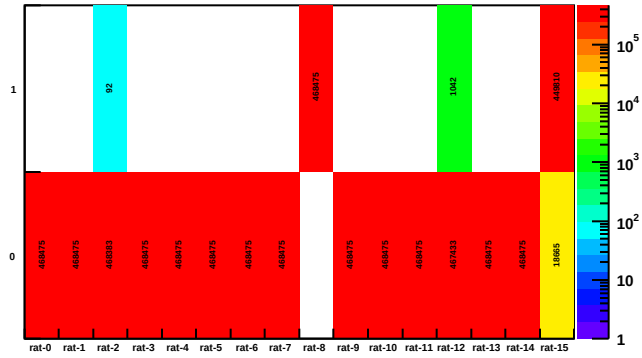

Unused (ch2)
Entries 7495600

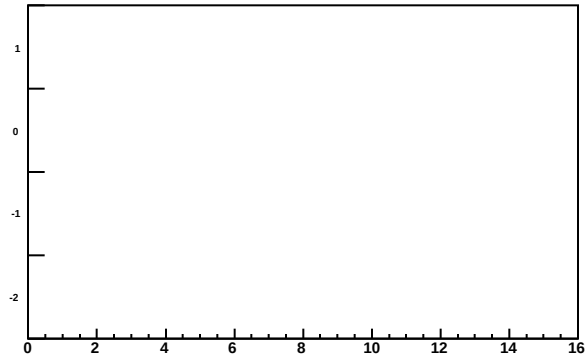

Entries 0


EM201 0-15 (ch3)
Entries 7495600
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

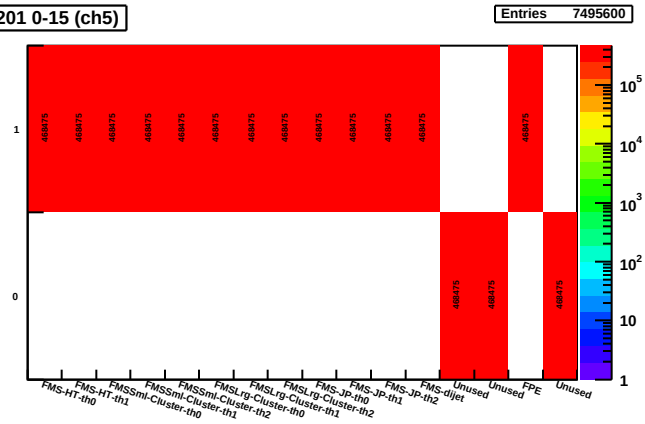

EM201 0-15 (ch3)
Entries 3566
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

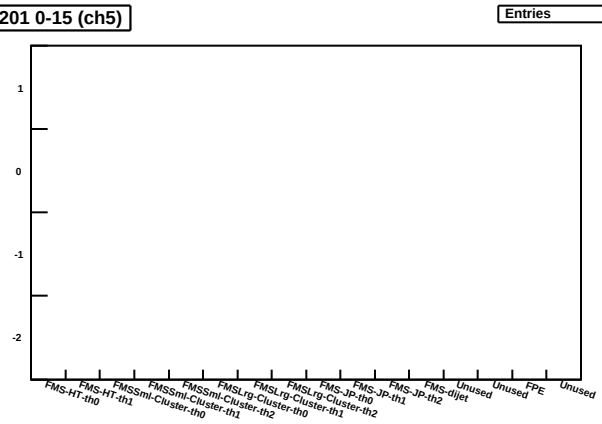




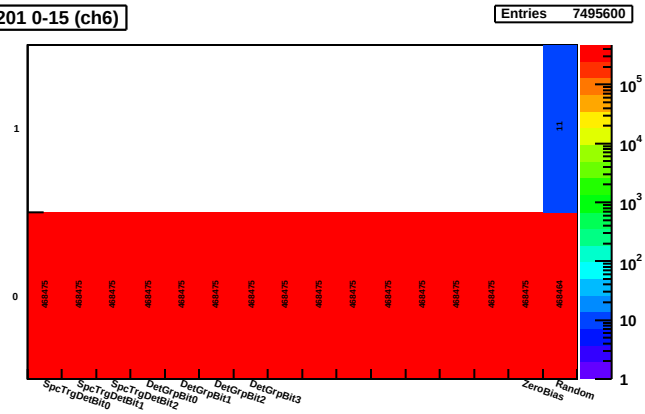
FP201 0-15 (ch5)

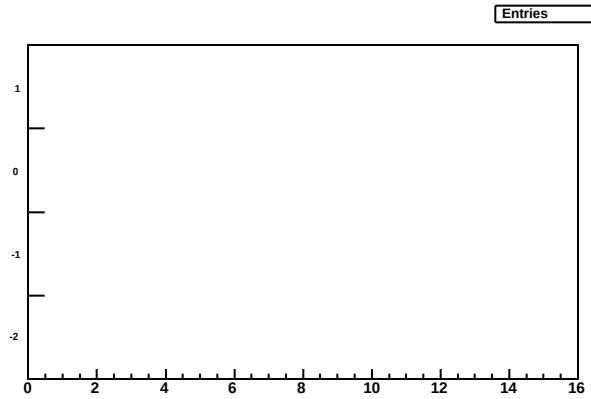
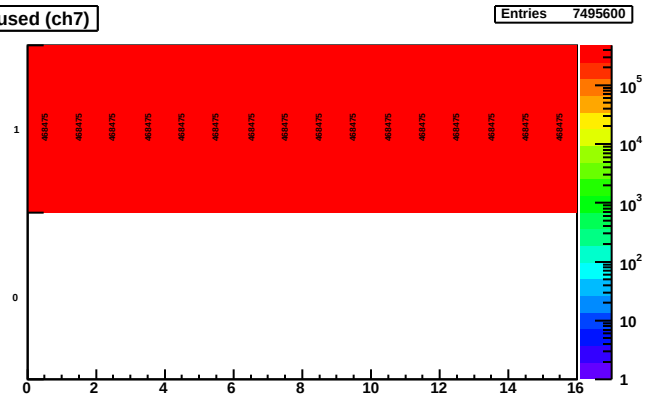
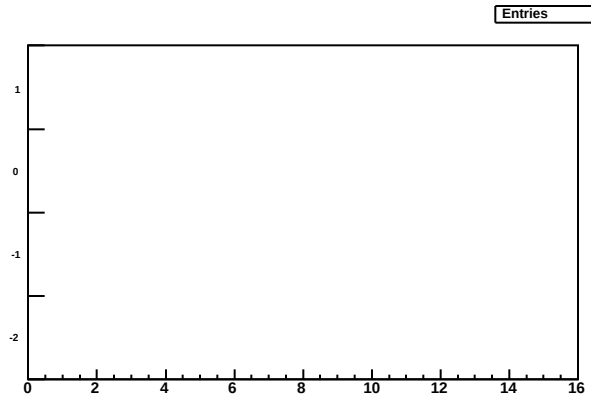


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)