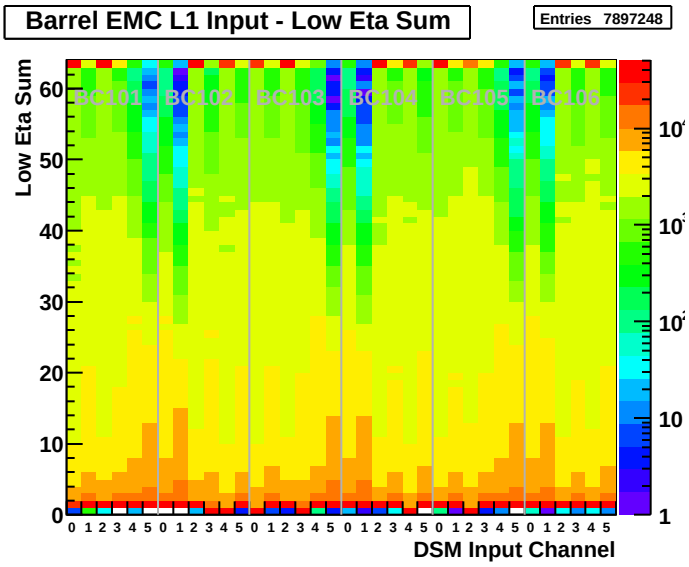
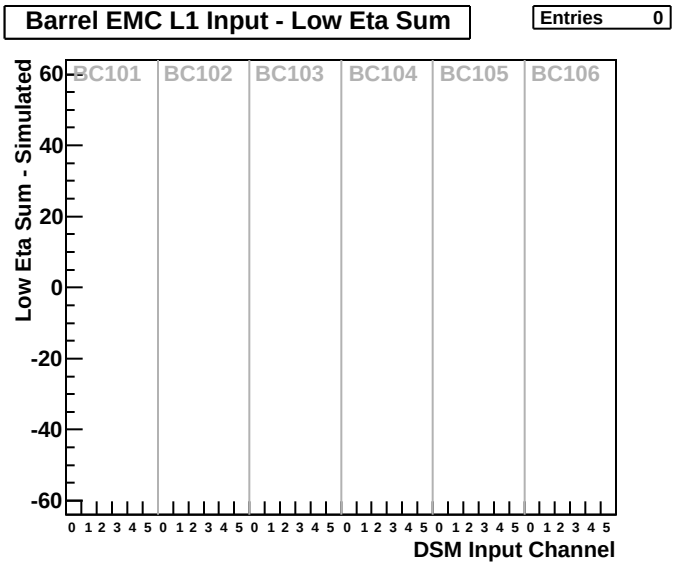
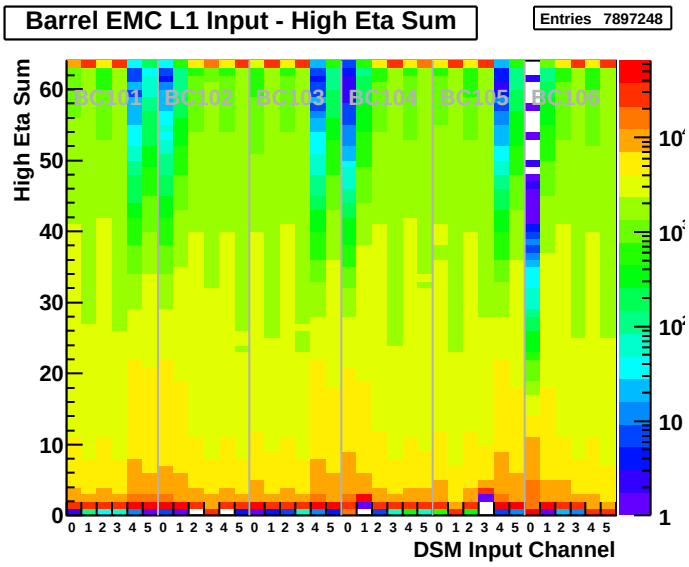
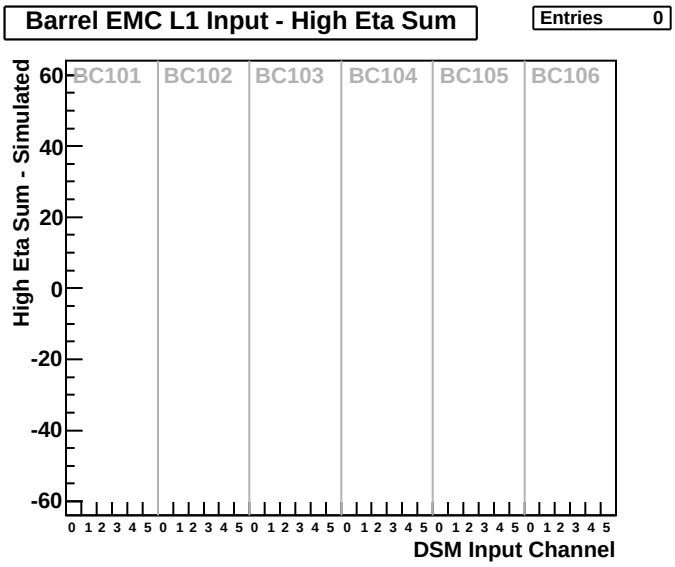
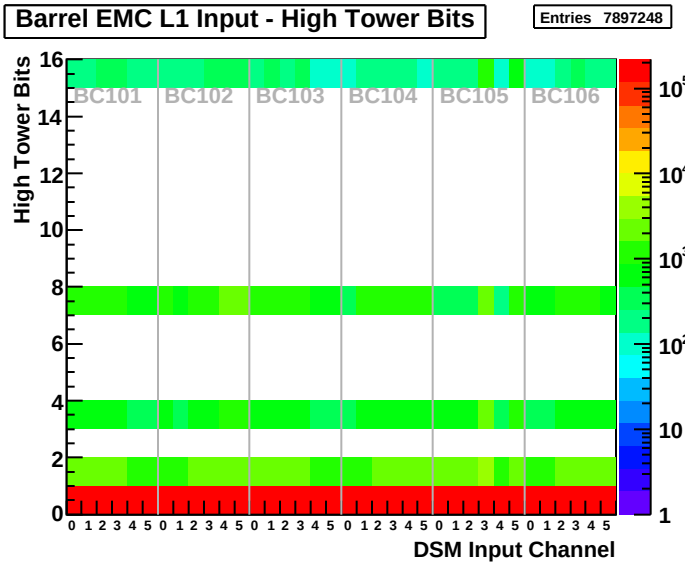
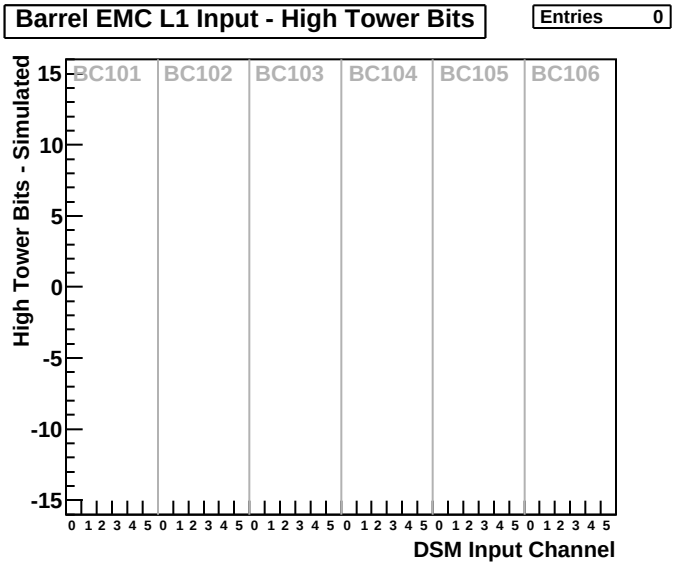

Barrel EMC L1 Input - Low Eta Sum
Entries 7897248
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

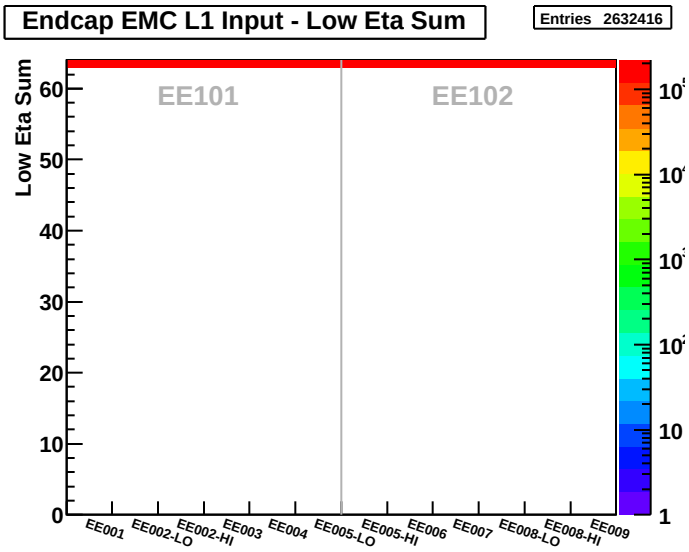

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

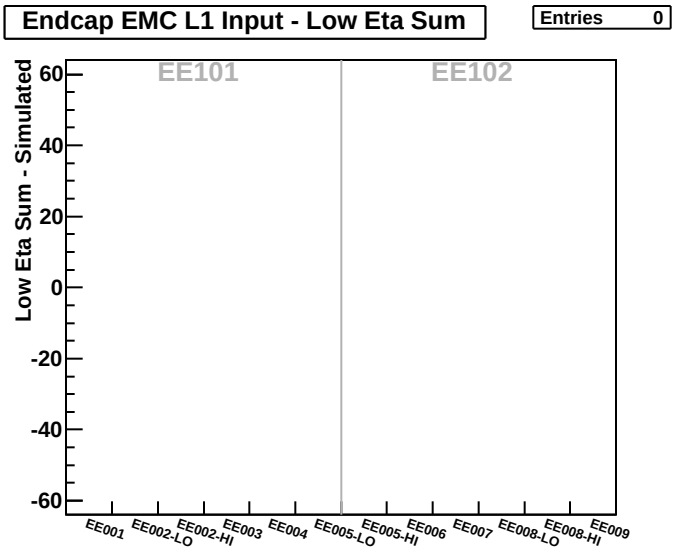

Barrel EMC L1 Input - High Eta Sum
Entries 7897248
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

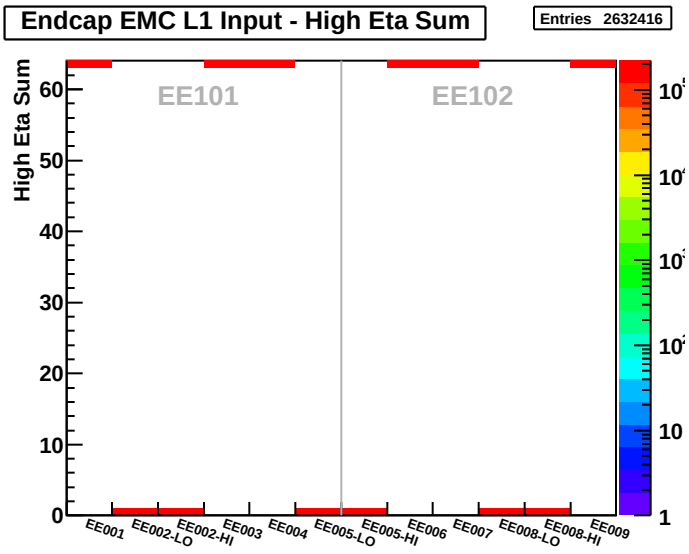

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

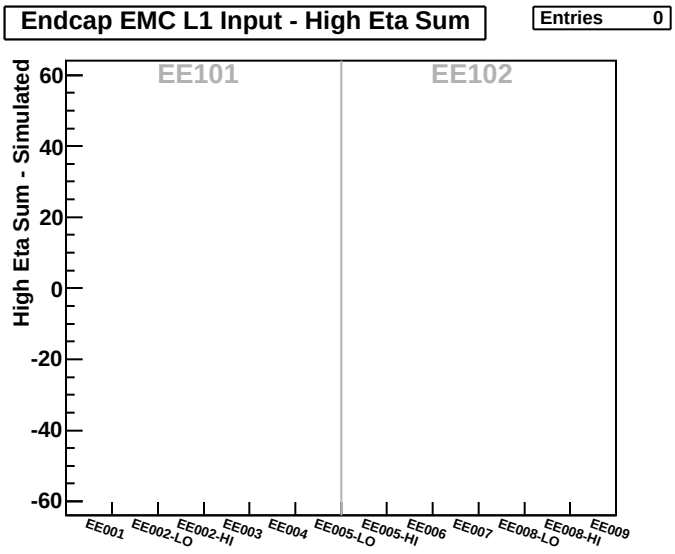

Barrel EMC L1 Input - High Tower Bits
Entries 7897248
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

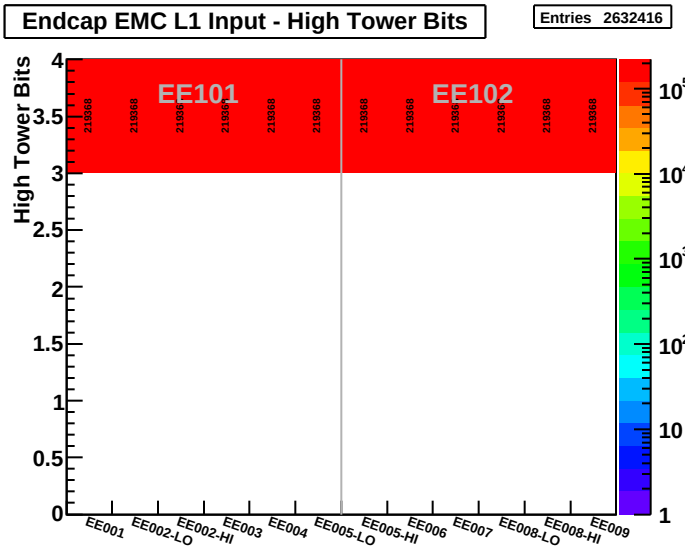

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

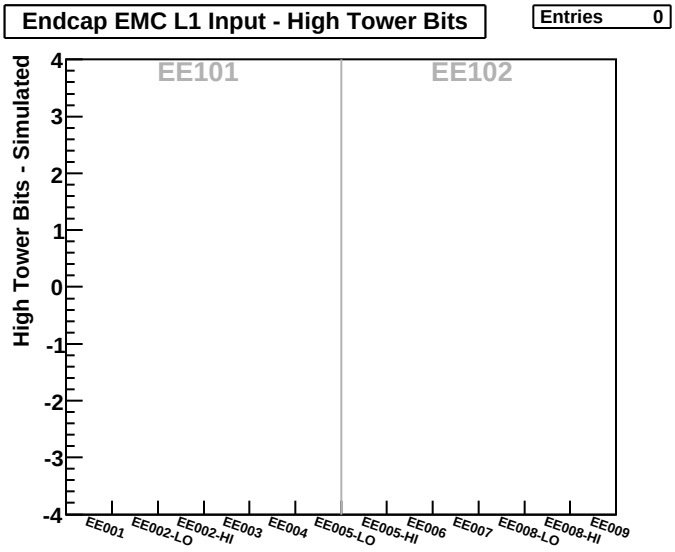

Endcap EMC L1 Input - Low Eta Sum
Entries 2632416
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

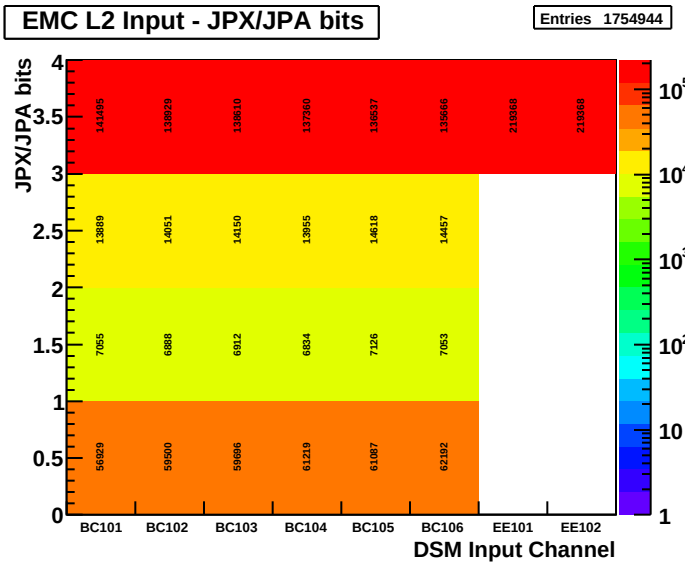

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

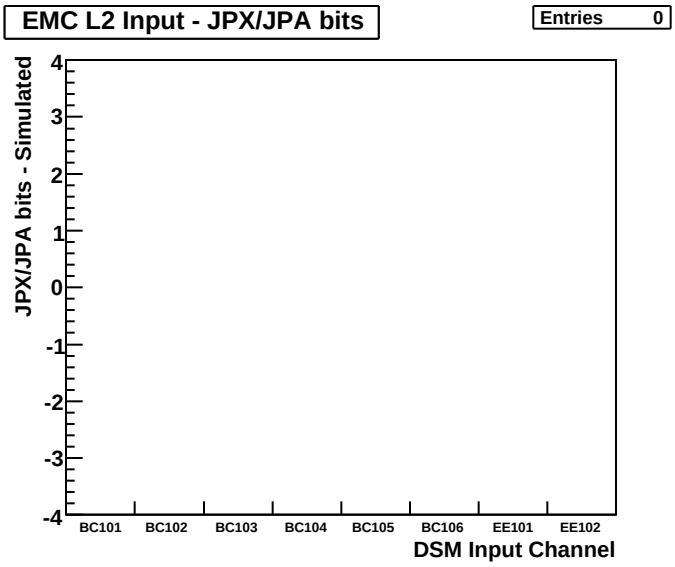

Endcap EMC L1 Input - High Eta Sum
Entries 2632416
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

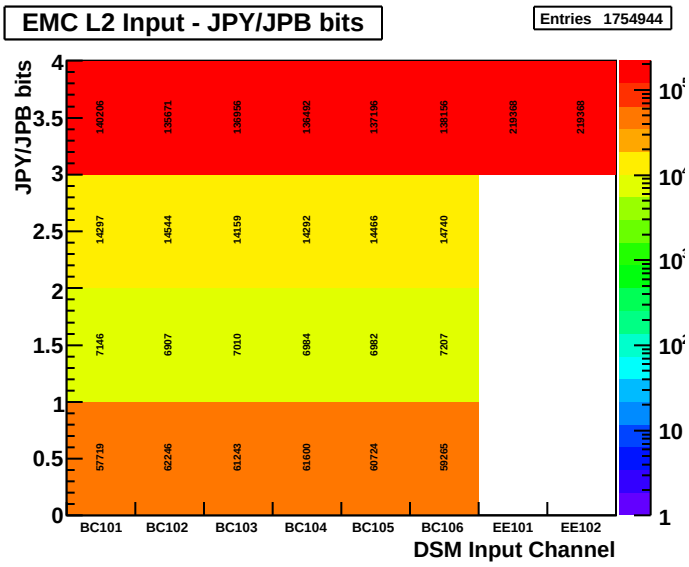

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

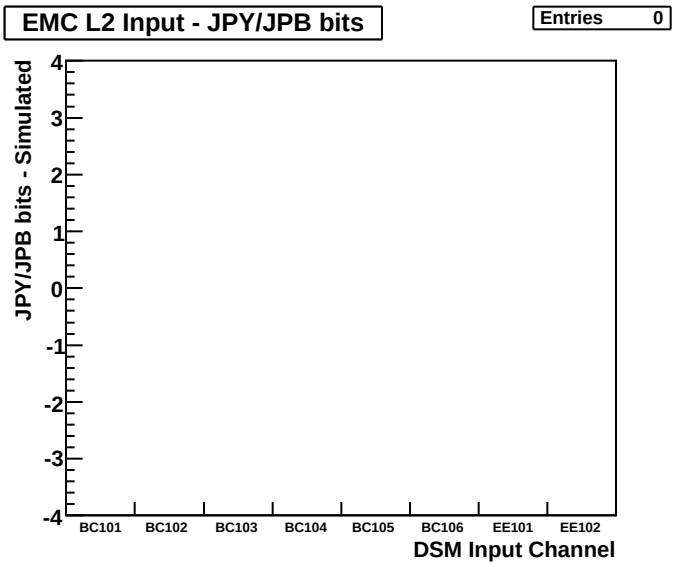

Endcap EMC L1 Input - High Tower Bits
Entries 2632416
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

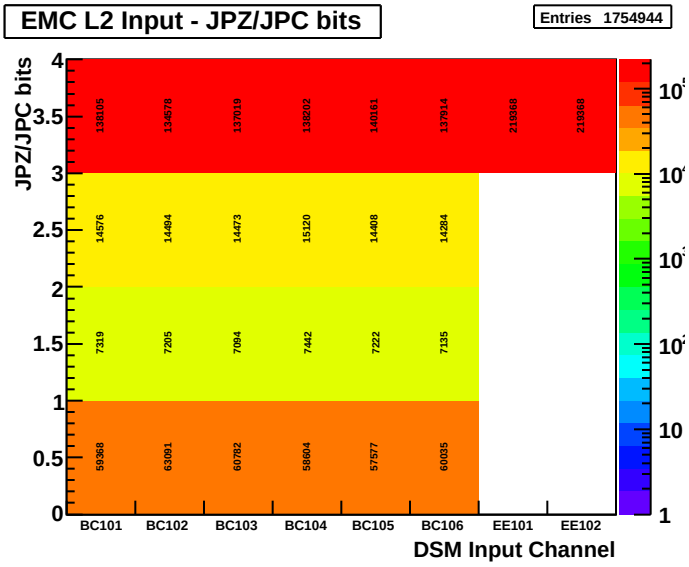

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

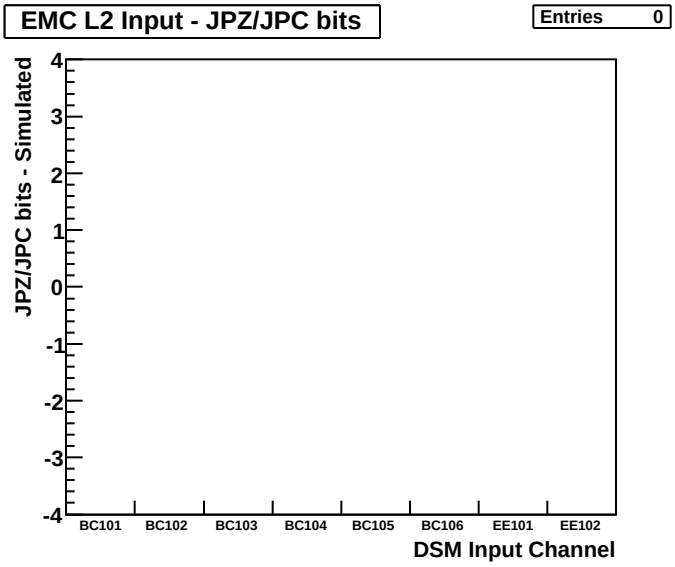

EMC L2 Input - JPX/JPA bits
Entries 1754944
JPX/JPA bits
141495 138829 138610 137360 136537 135666 219368 219368
13889 14051 14150 13955 14618 14457
7055 6888 6912 6834 7126 7053
56929 59500 59696 61219 61087 62192
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

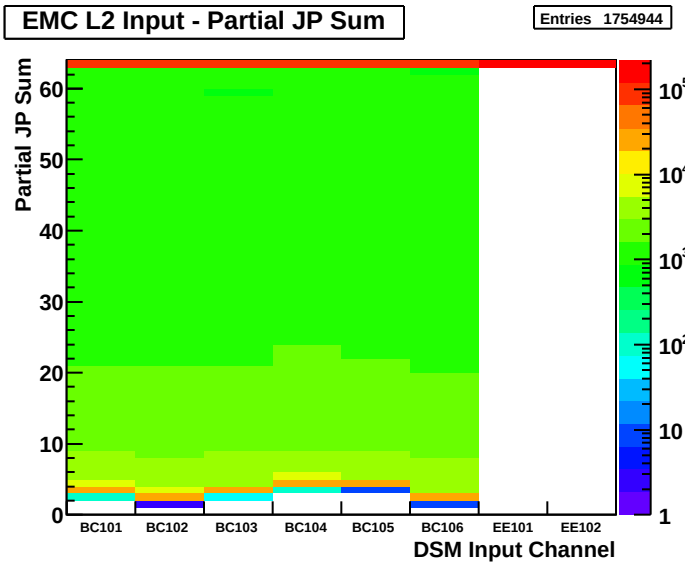

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

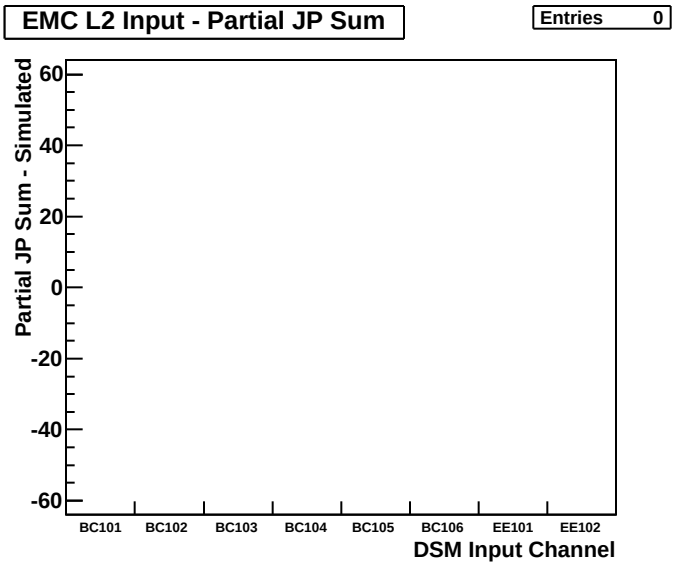

EMC L2 Input - JPY/JPB bits
Entries 1754944
JPY/JPB bits
140206 135671 136956 136402 137196 138156 219368 219368
14297 14544 14159 14292 14466 14740
7146 6907 7010 6984 6982 7207
57719 62246 61243 61600 60724 59265
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

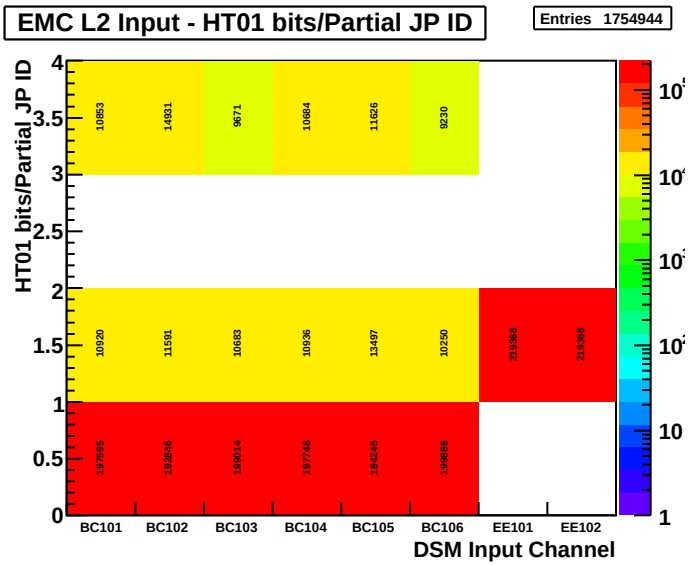

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

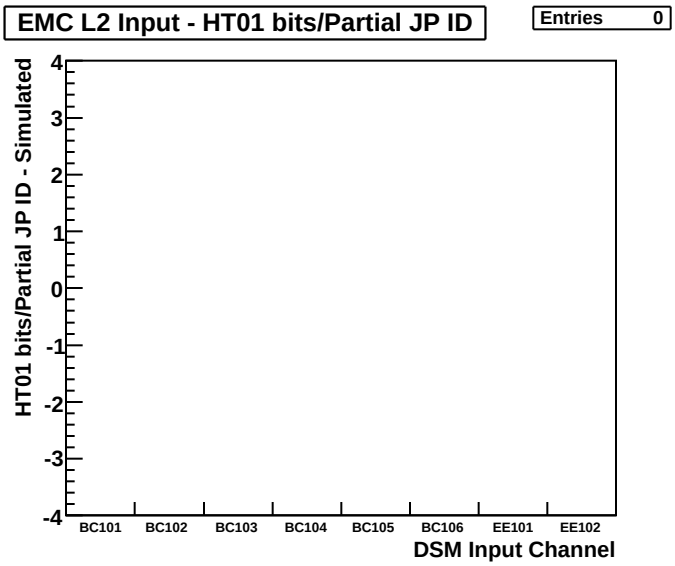

EMC L2 Input - JPZ/JPC bits
Entries 1754944
JPZ/JPC bits
138105 134578 137019 138202 140161 137914 219368 219368
14576 14494 14473 15120 14408 14284
7319 7205 7094 7442 7222 7135
59368 63091 60782 58604 57577 60035
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

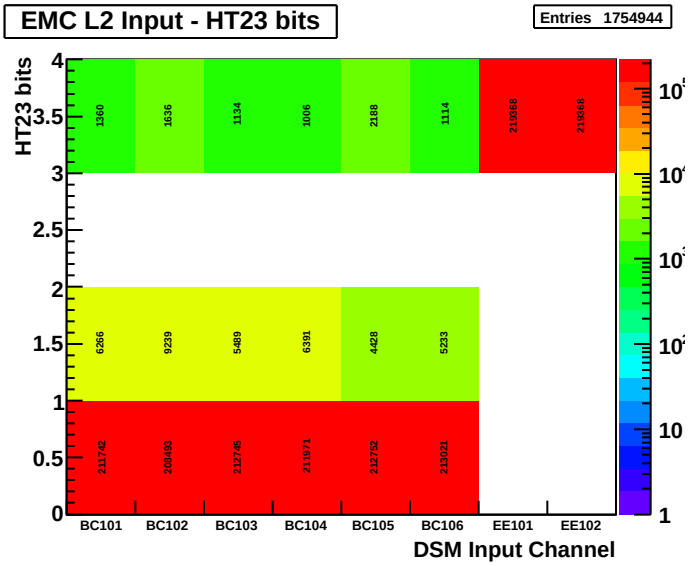

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

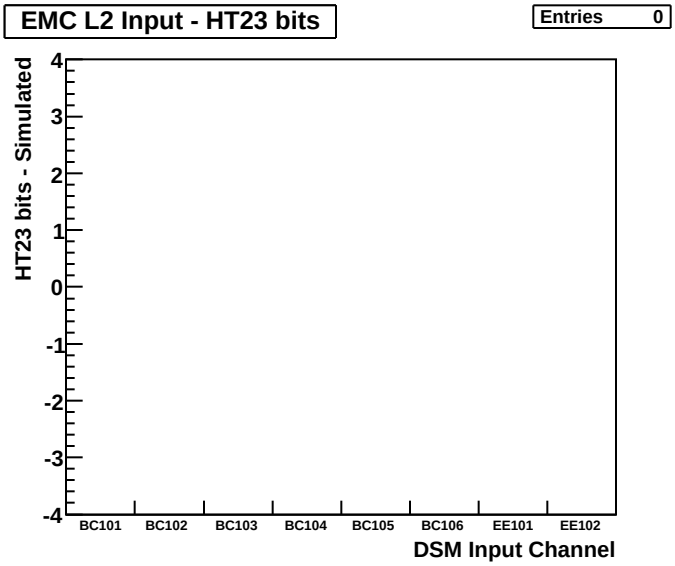

EMC L2 Input - Partial JP Sum
Entries 1754944
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

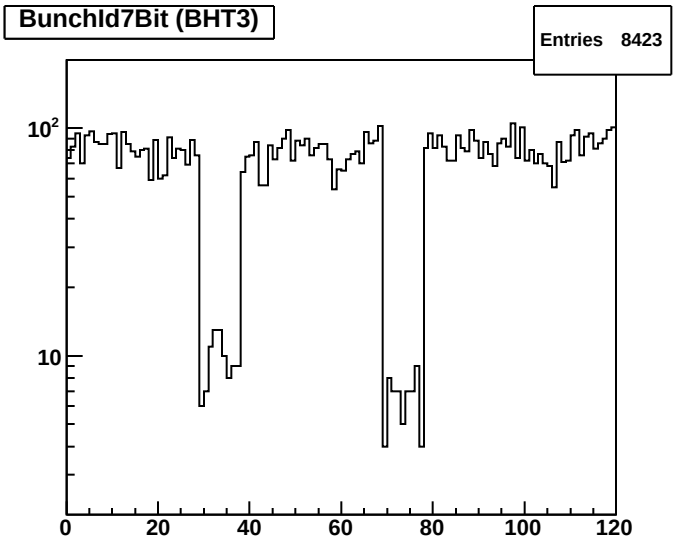

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

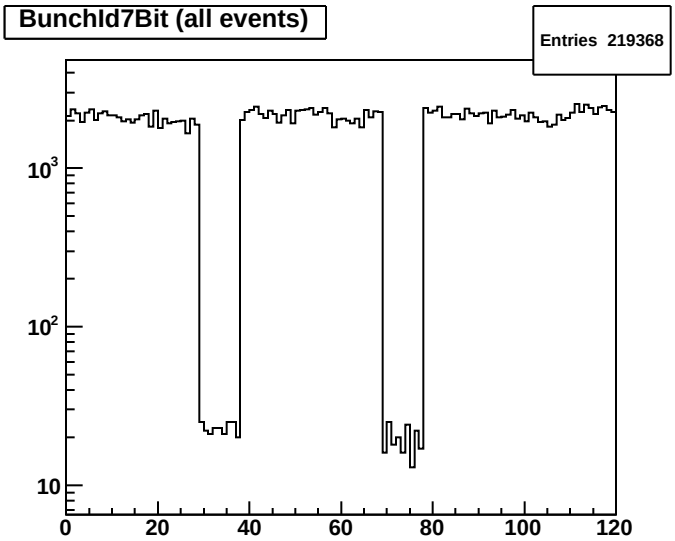

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1754944
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

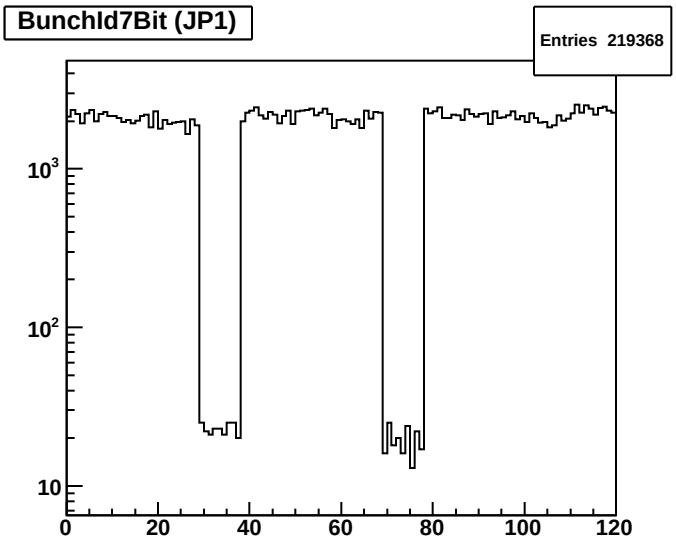

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

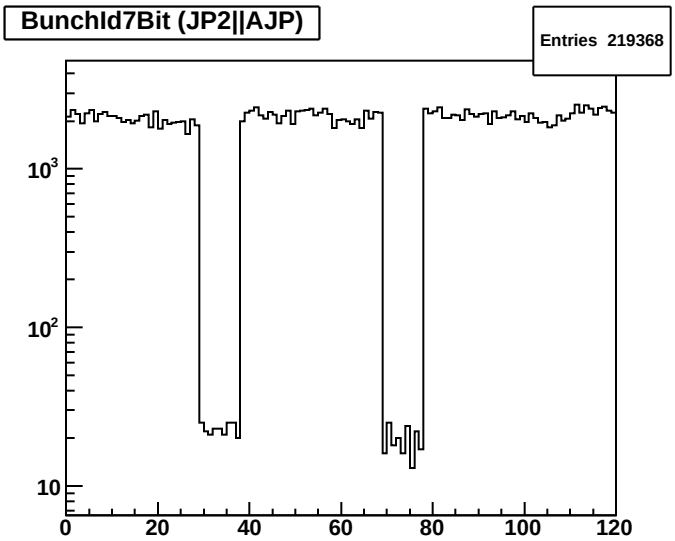

EMC L2 Input - HT23 bits
Entries 1754944
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

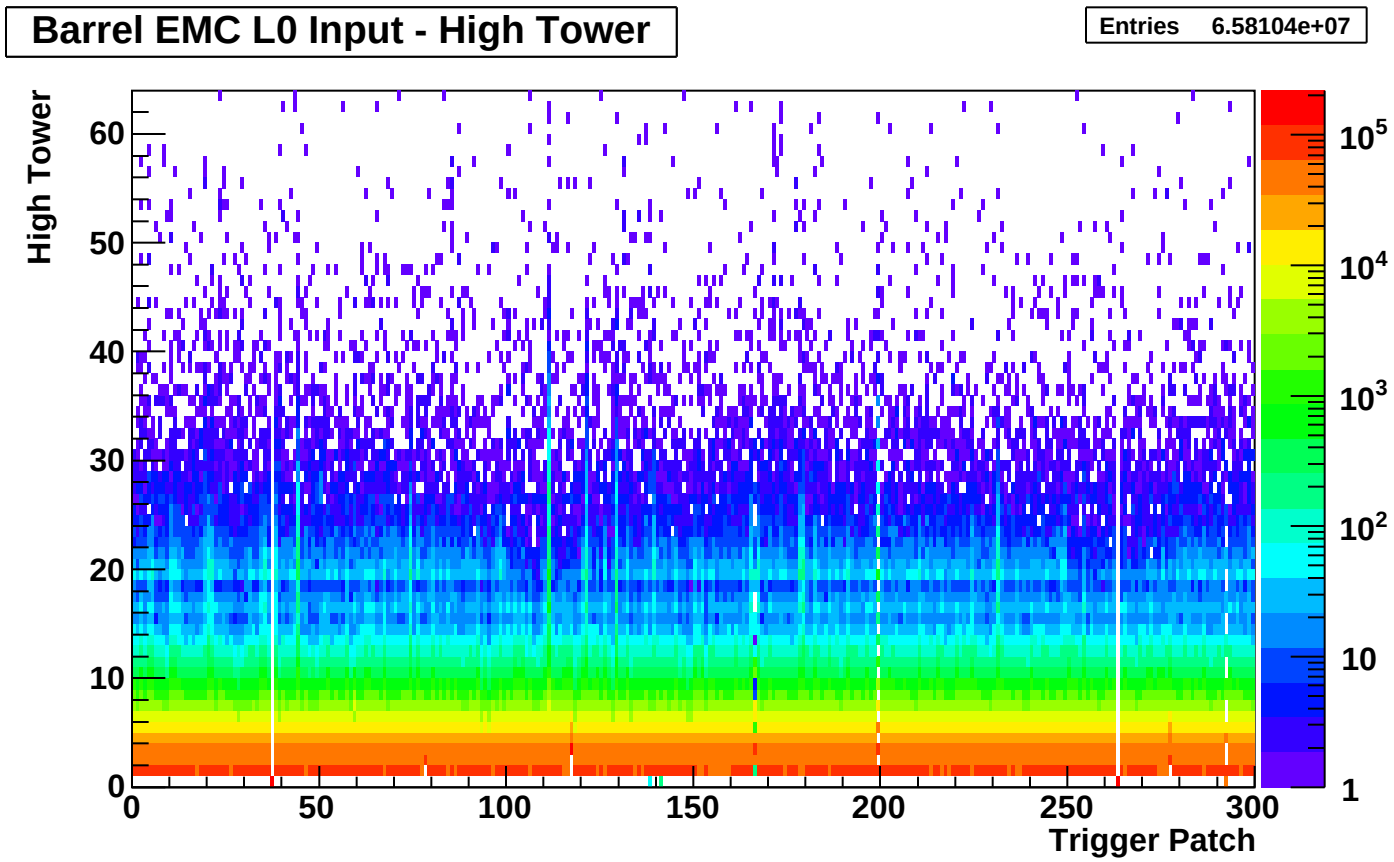

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

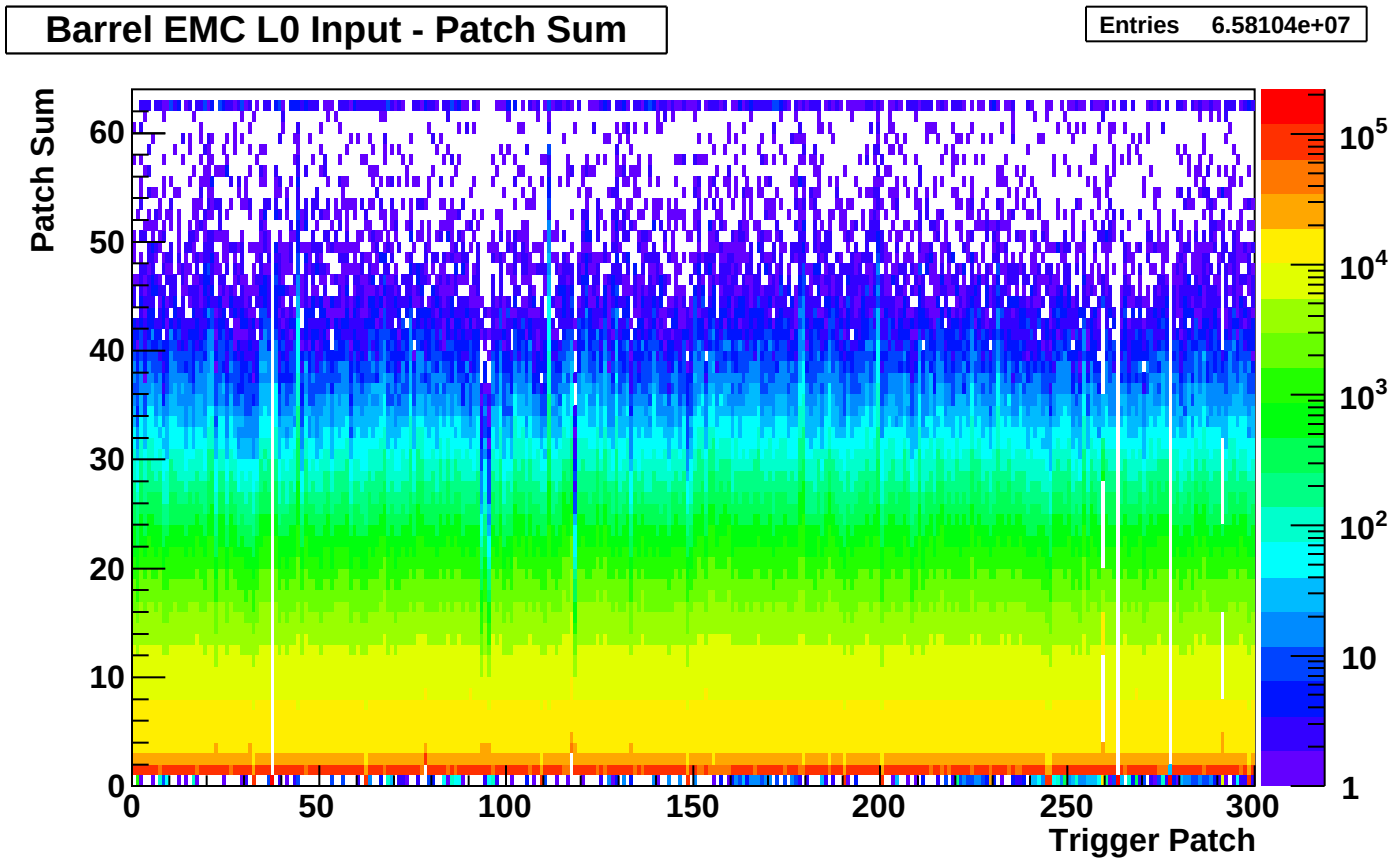

BunchId7Bit (BHT3)
Entries 8423
10^2
10
0
20
40
60
80
100
120

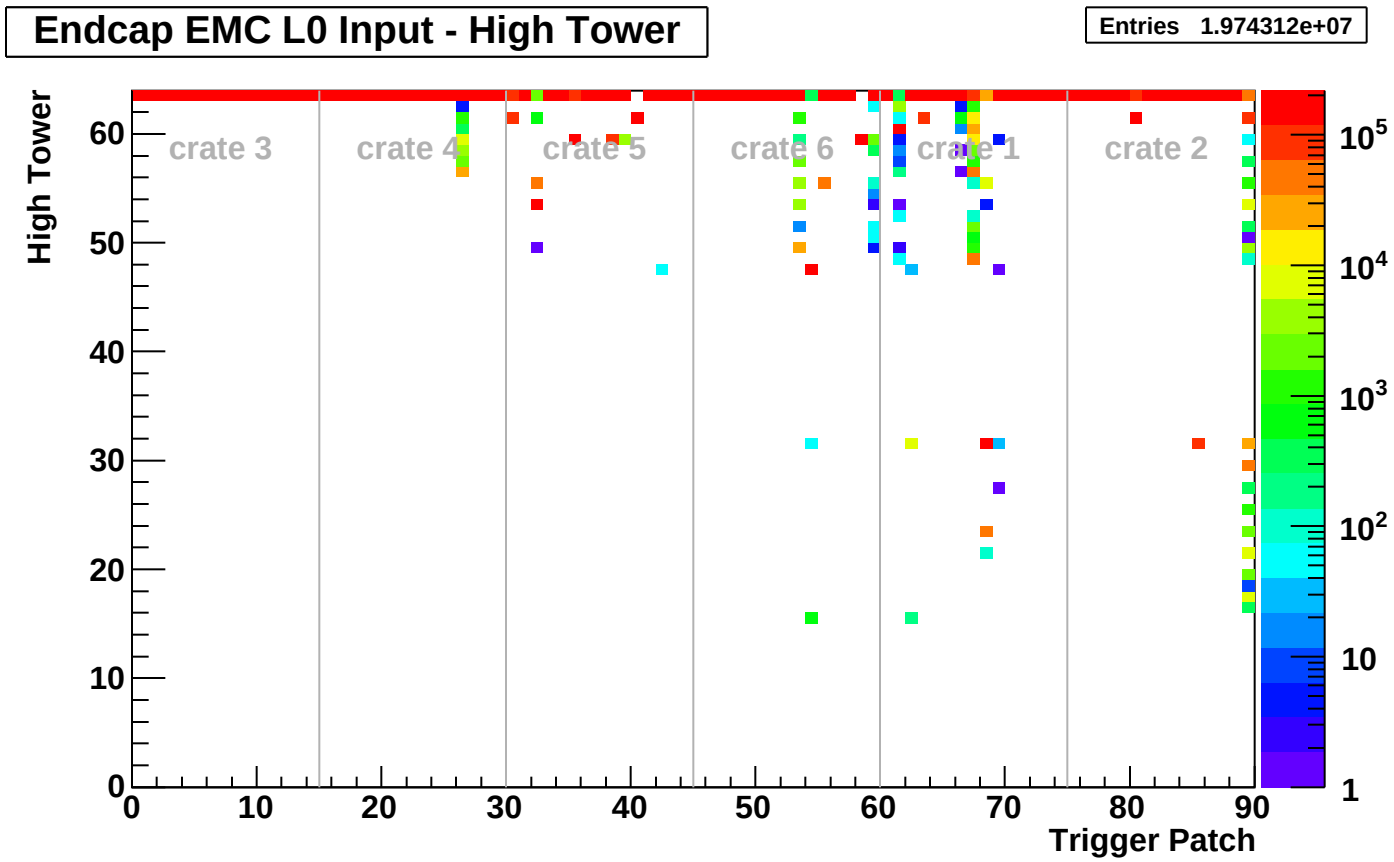

BunchId7Bit (all events)
Entries 219368
10^3
10^2
10
0
20
40
60
80
100
120

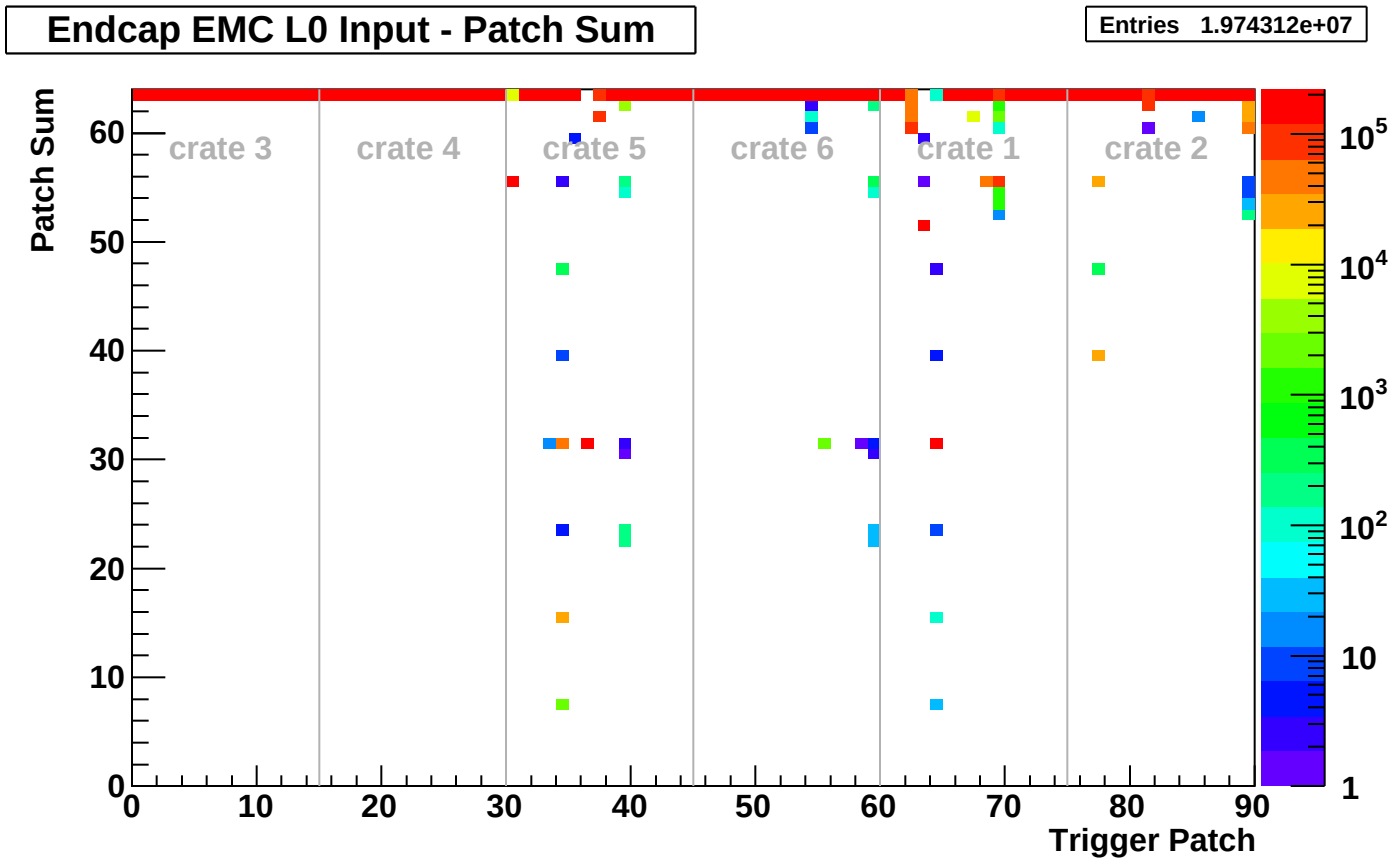

BunchId7Bit (JP1)
Entries 219368
10^3
10^2
10
0
20
40
60
80
100
120

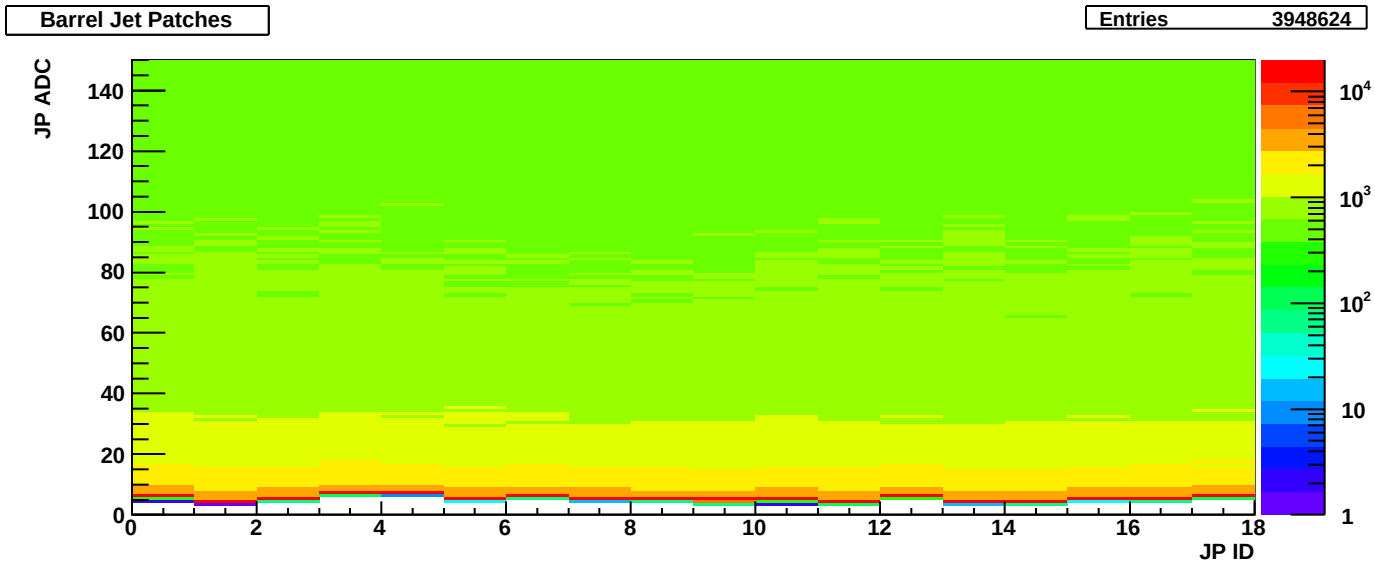

BunchId7Bit (JP2||AJP)
Entries 219368
10^3
10^2
10
0
20
40
60
80
100
120

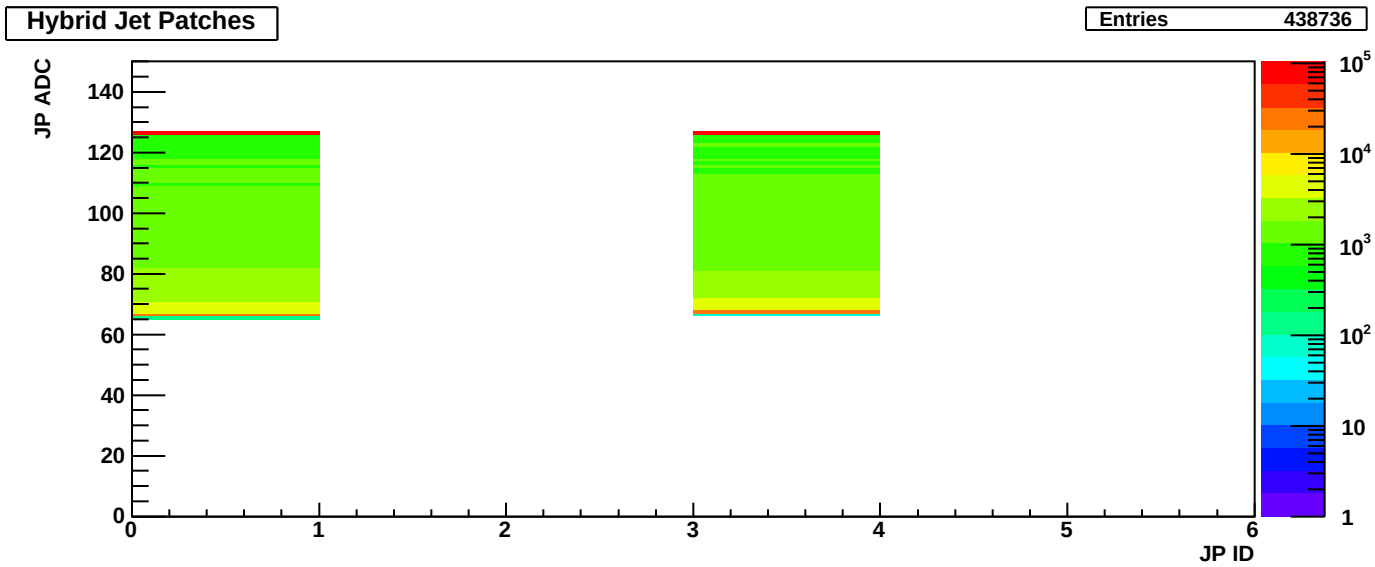

Barrel EMC L0 Input - High Tower
Entries 6.58104e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

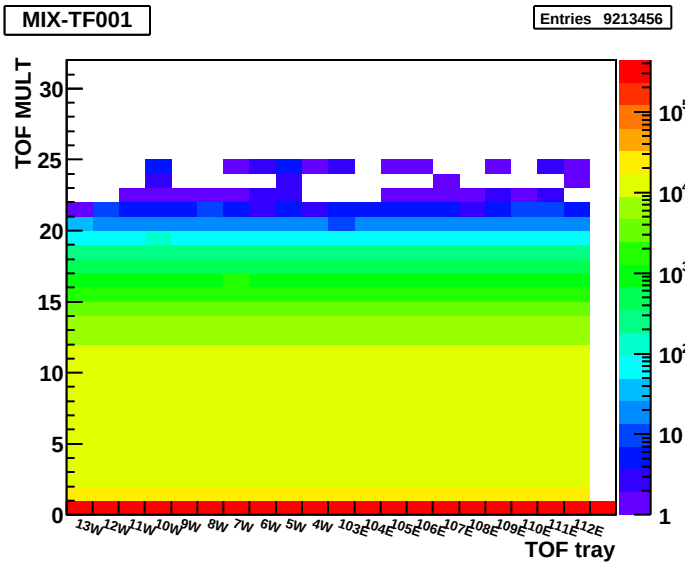

Barrel EMC L0 Input - Patch Sum
Entries 6.58104e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

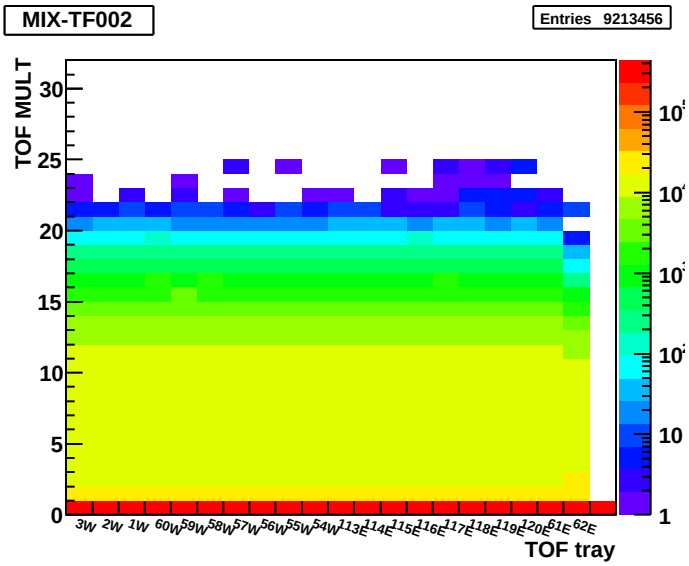

Endcap EMC L0 Input - High Tower
Entries 1.974312e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

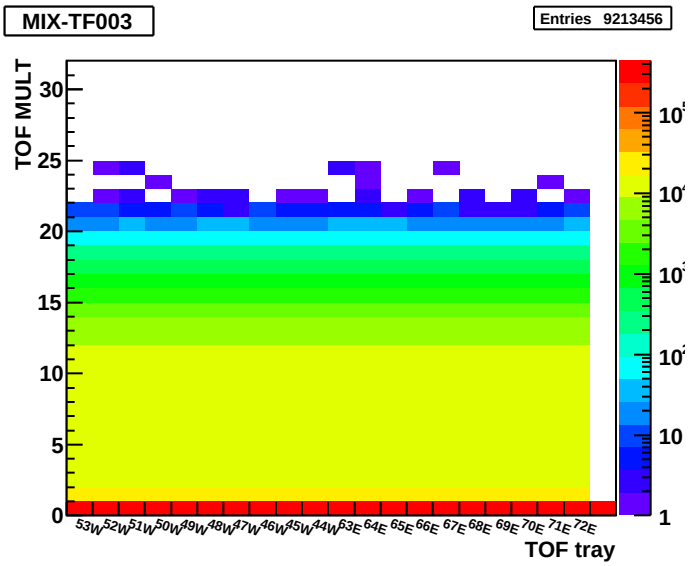

Endcap EMC L0 Input - Patch Sum
Entries 1.974312e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

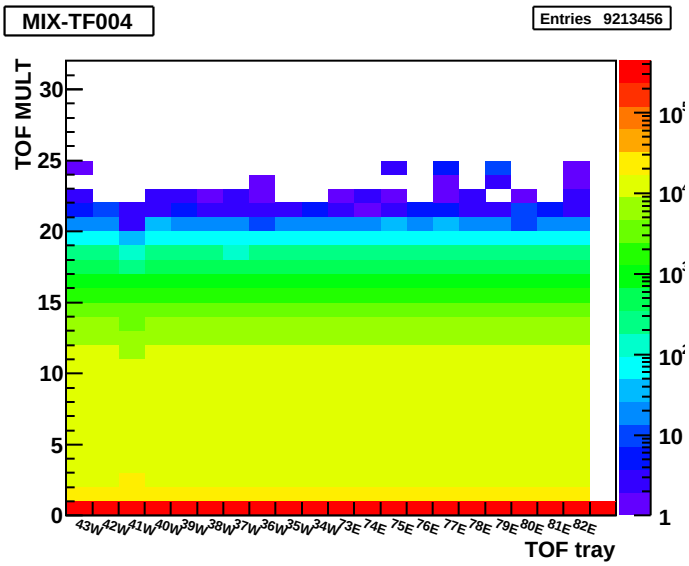

Barrel Jet Patches
Entries 3948624
JP ADC
JP ID

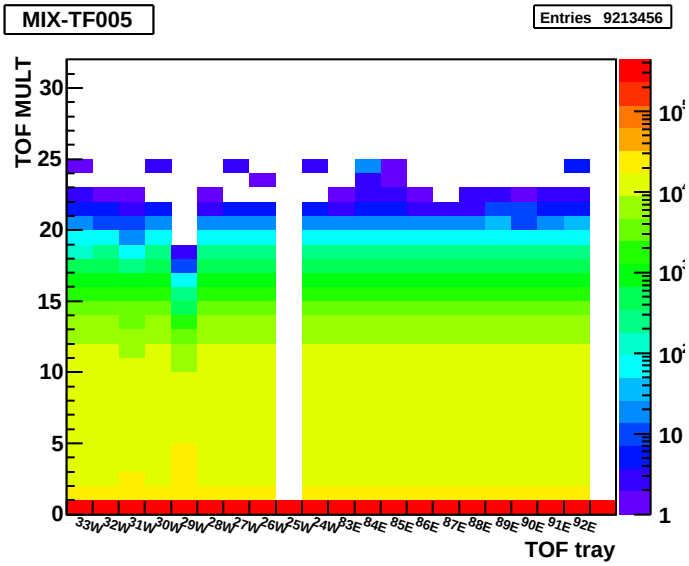

Hybrid Jet Patches
Entries 438736
JP ADC
JP ID

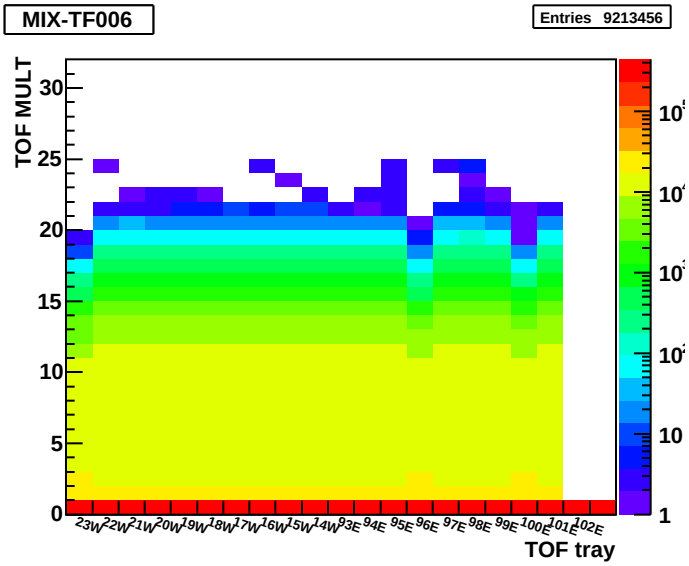

MIX-TF001
Entries 9213456
TOF MULT
TOF tray

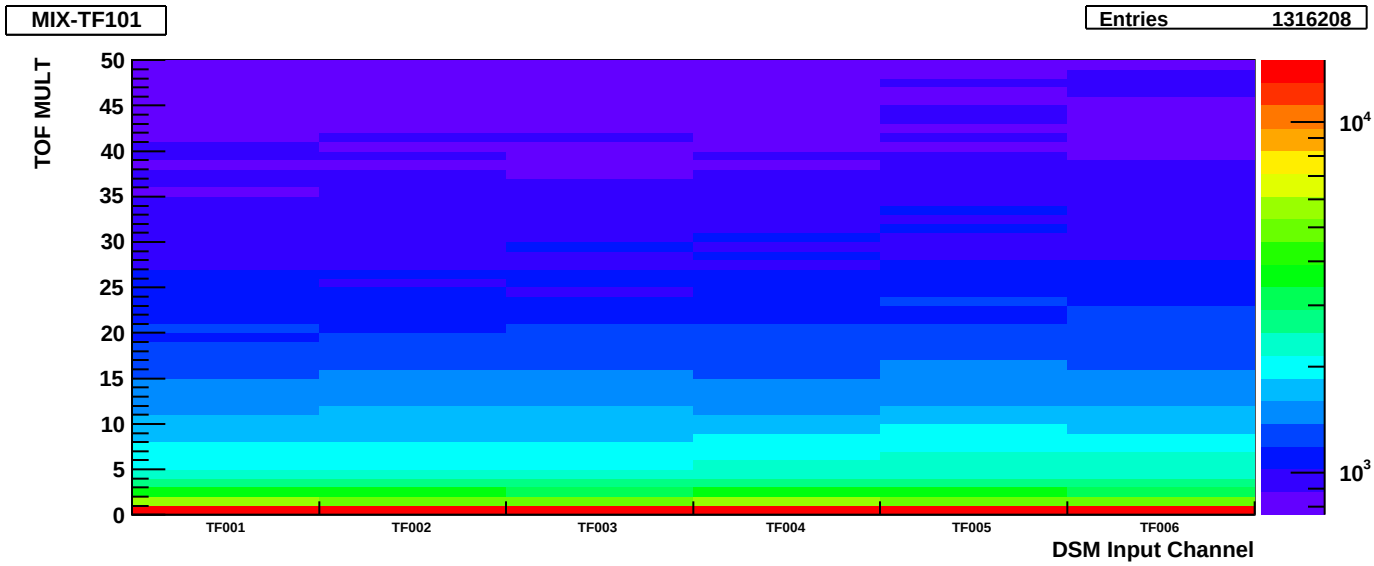

MIX-TF002
Entries 9213456
TOF MULT
TOF tray

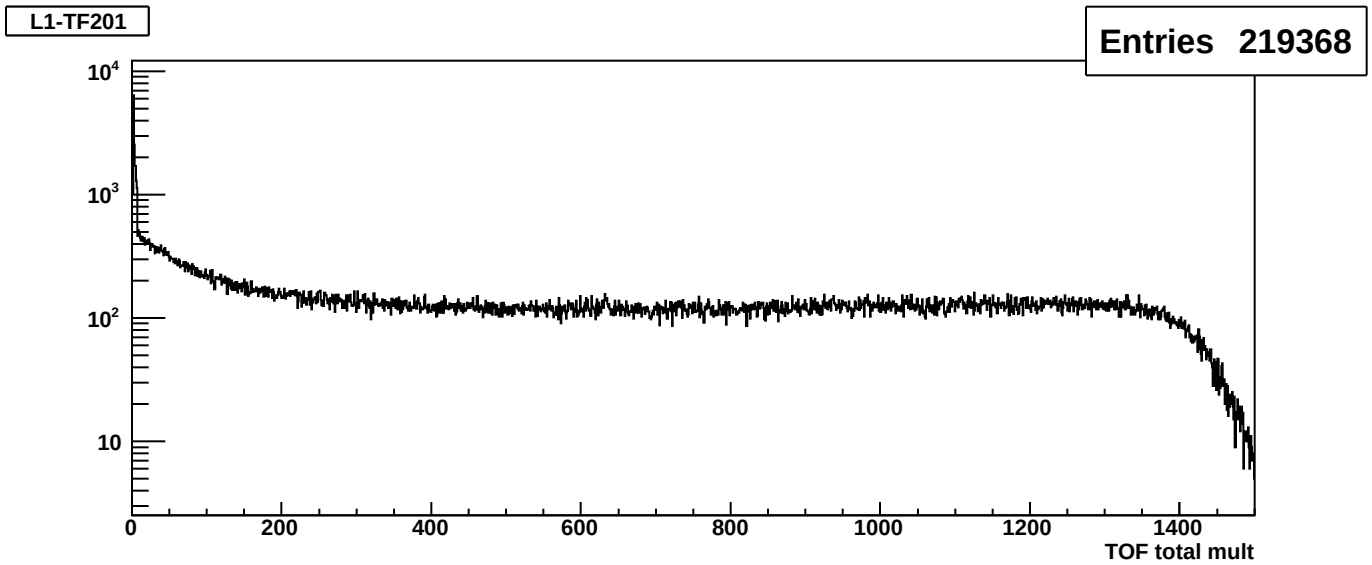

MIX-TF003
Entries 9213456
TOF MULT
TOF tray

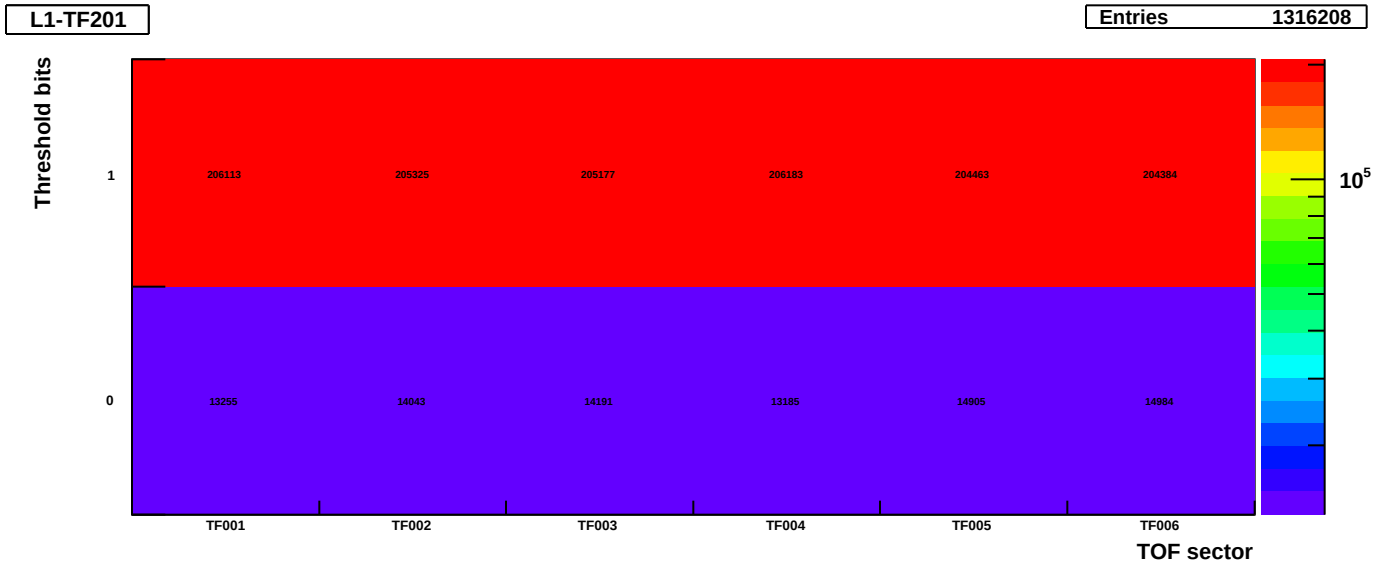

MIX-TF004
Entries 9213456
TOF MULT
TOF tray

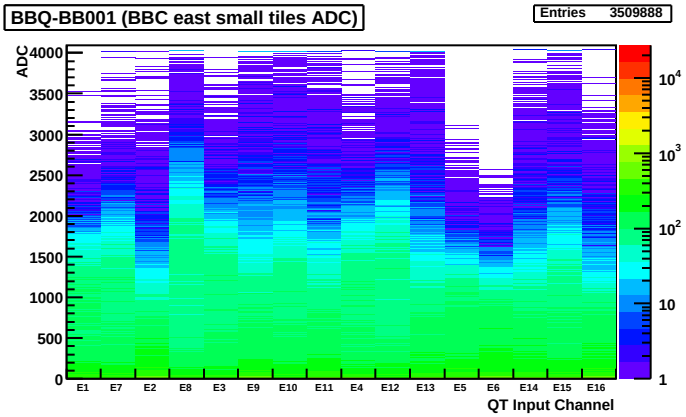

MIX-TF005
Entries 9213456
TOF MULT
TOF tray

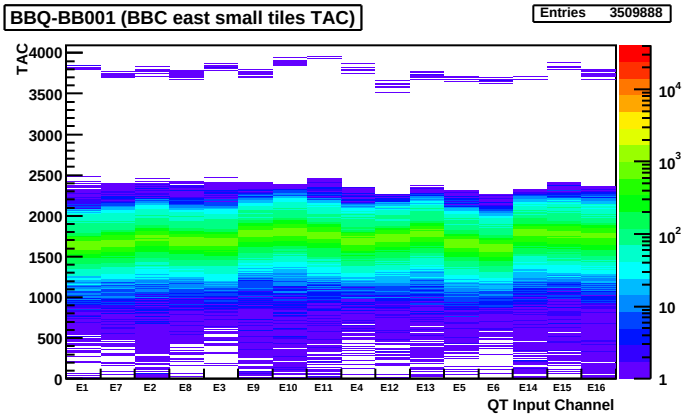

MIX-TF006
Entries 9213456
TOF MULT
TOF tray

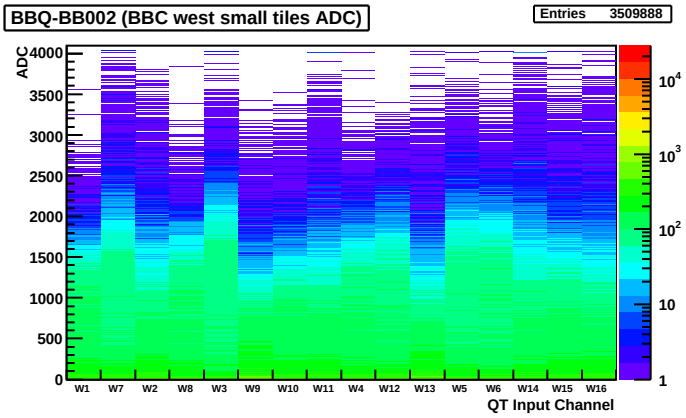

MIX-TF101
Entries 1316208
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

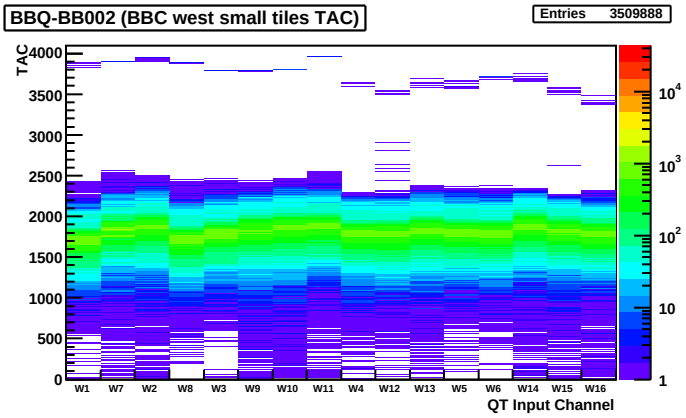

L1-TF201
Entries 219368
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

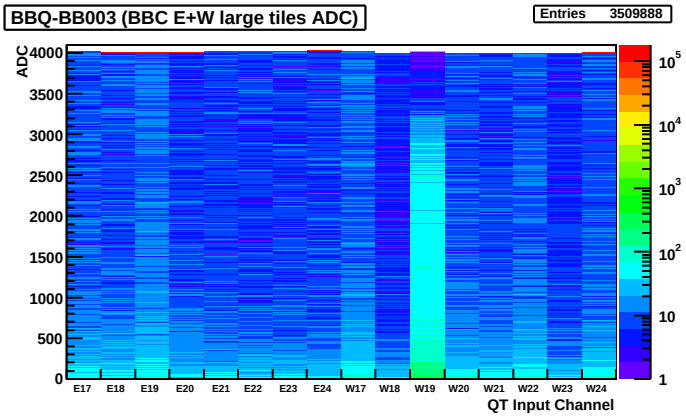

L1-TF201
Entries 1316208
Threshold bits
1
0
206113
205325
205177
206183
204463
204384
13255
14043
14191
13185
14905
14984
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

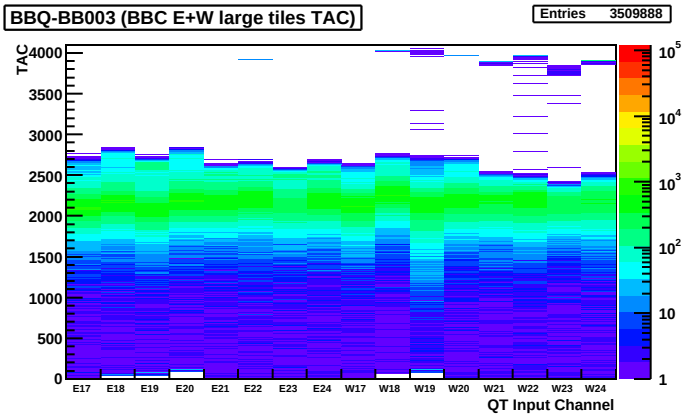

BBQ-BB001 (BBC east small tiles ADC)
Entries 3509888
ADC
QT Input Channel

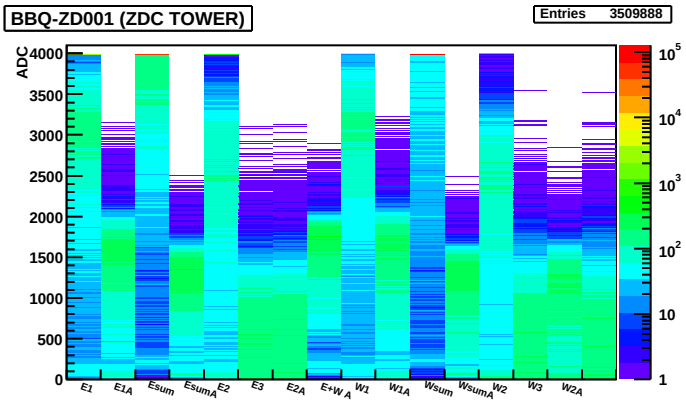

BBQ-BB001 (BBC east small tiles TAC)
Entries 3509888
TAC
QT Input Channel

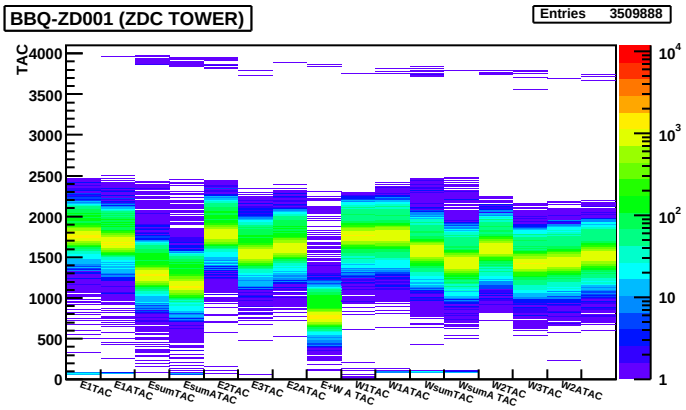

BBQ-BB002 (BBC west small tiles ADC)
Entries 3509888
ADC
QT Input Channel

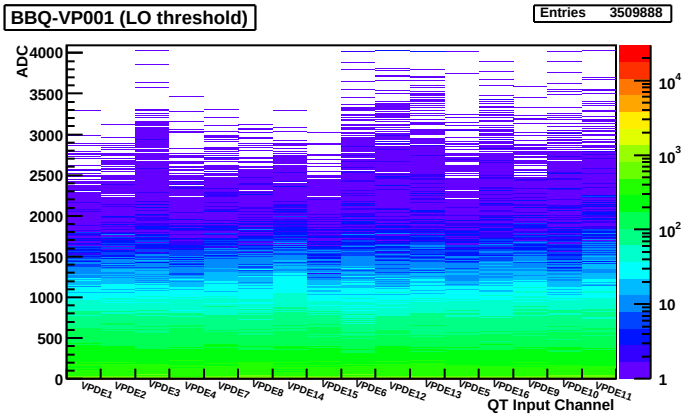

BBQ-BB002 (BBC west small tiles TAC)
Entries 3509888
TAC
QT Input Channel

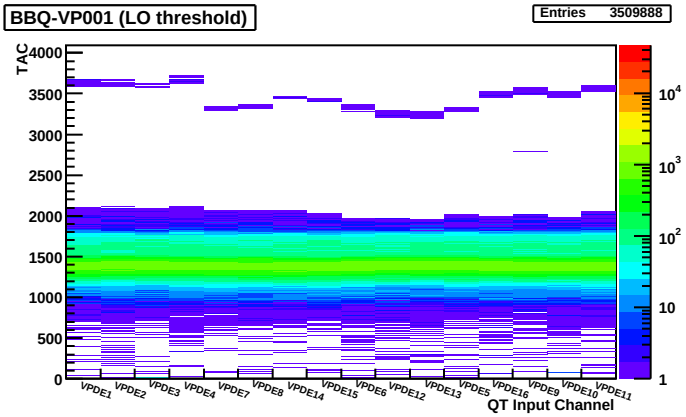

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3509888
ADC
QT Input Channel

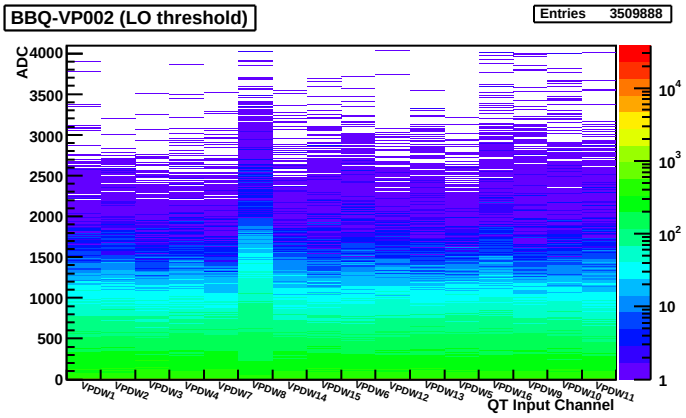

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3509888
TAC
QT Input Channel

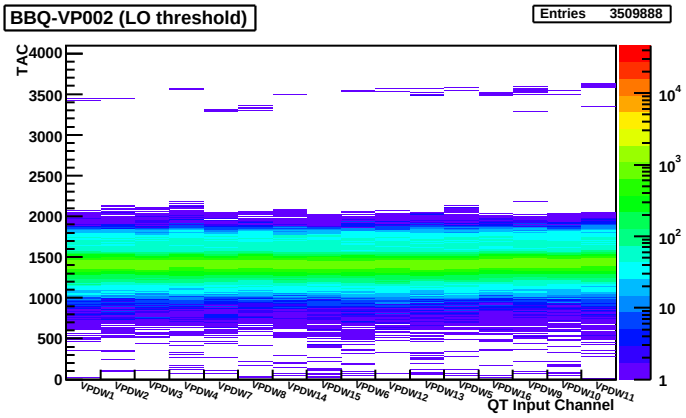

BBQ-ZD001 (ZDC TOWER)
Entries 3509888
ADC

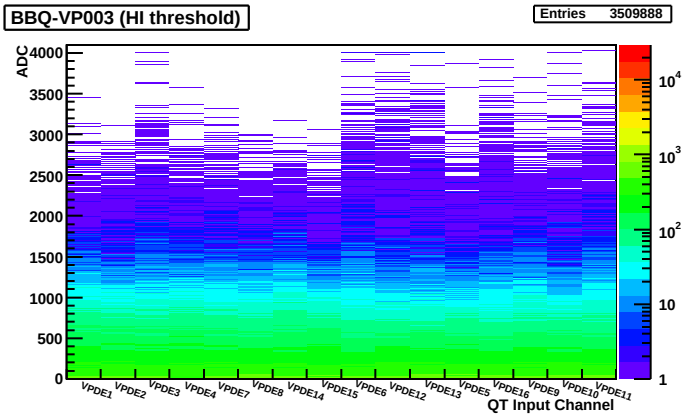

BBQ-ZD001 (ZDC TOWER)
Entries 3509888
TAC

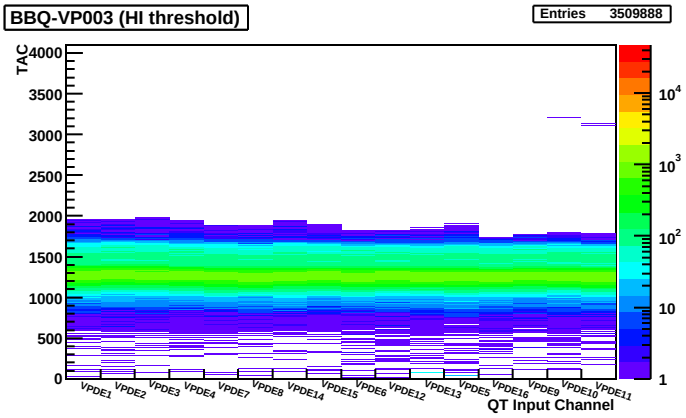

BBQ-VP001 (LO threshold)
Entries 3509888
ADC
QT Input Channel

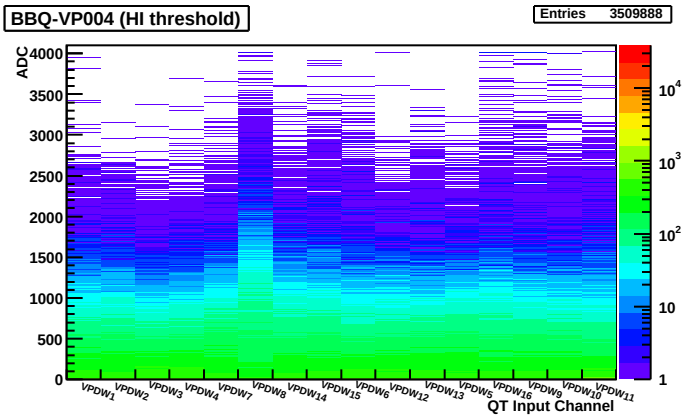

BBQ-VP001 (LO threshold)
Entries 3509888
TAC
QT Input Channel

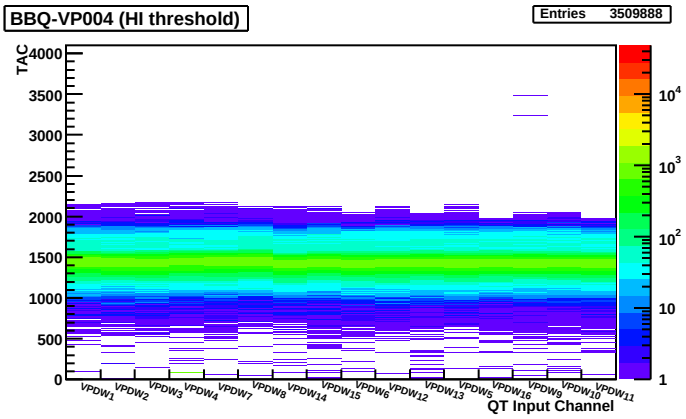

BBQ-VP002 (LO threshold)
Entries 3509888
ADC
QT Input Channel

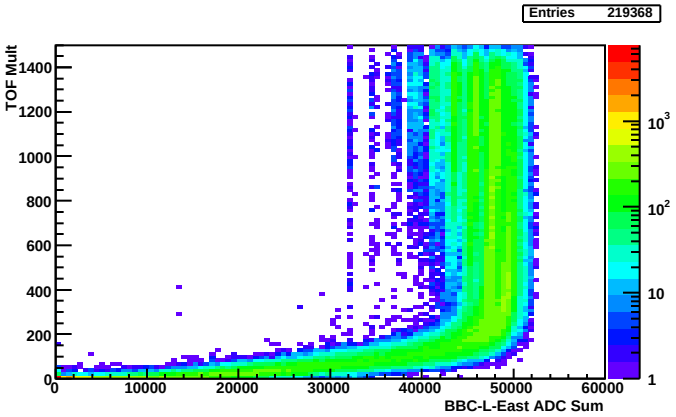

BBQ-VP002 (LO threshold)
Entries 3509888
TAC
QT Input Channel

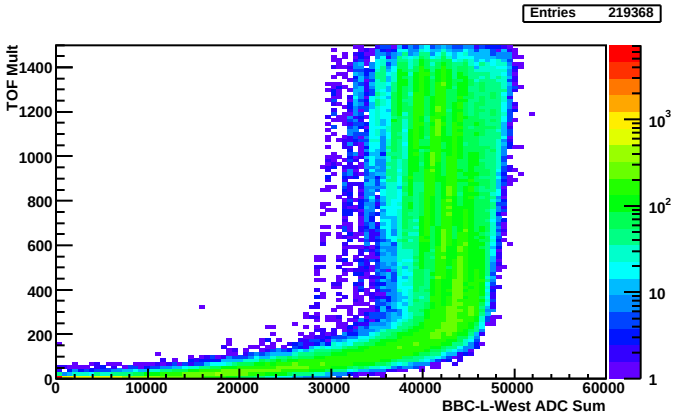

BBQ-VP003 (HI threshold)
Entries 3509888
ADC
QT Input Channel

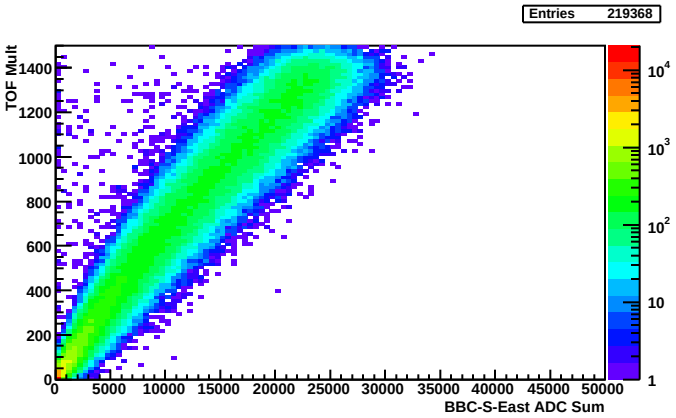

BBQ-VP003 (HI threshold)
Entries 3509888
TAC
QT Input Channel

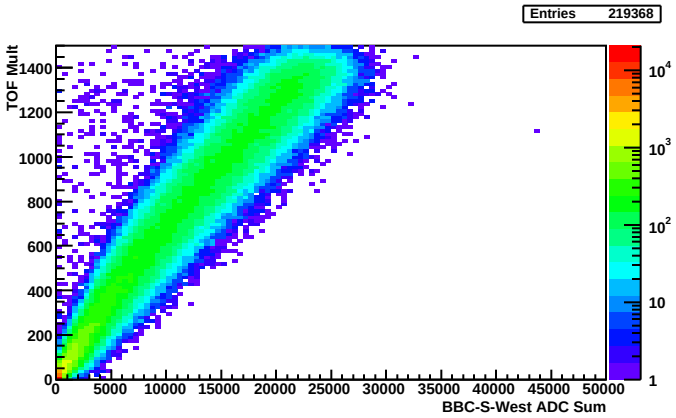

BBQ-VP004 (HI threshold)
Entries 3509888
ADC
QT Input Channel

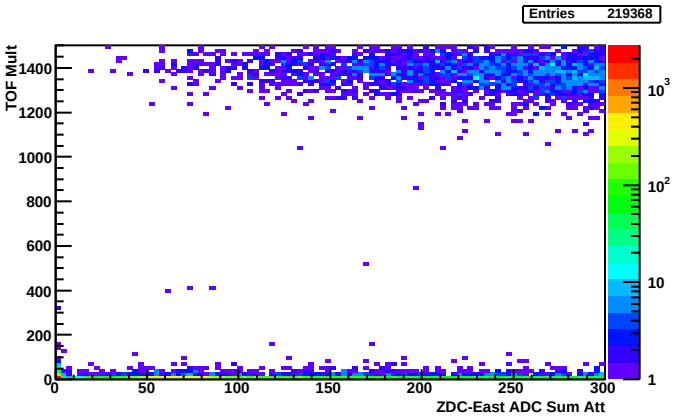

BBQ-VP004 (HI threshold)
Entries 3509888
TAC
QT Input Channel

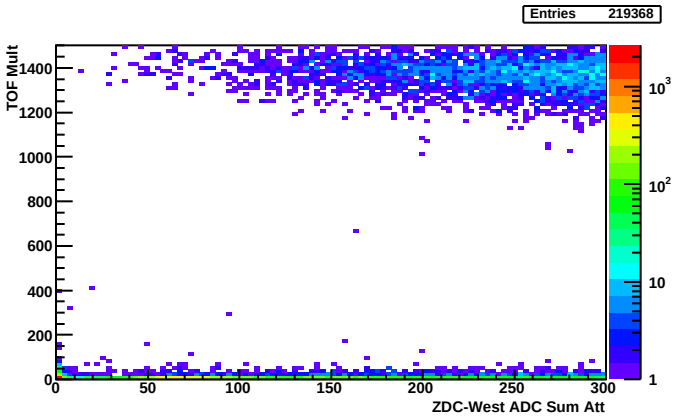

Entries 219368
TOF Mult
BBC-L-East ADC Sum

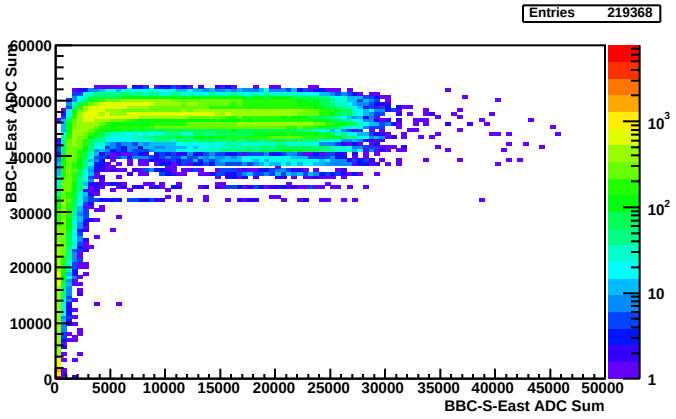

Entries 219368
TOF Mult
BBC-L-West ADC Sum

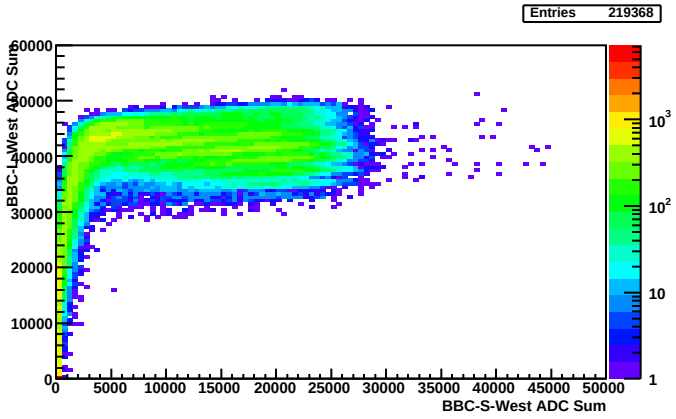

Entries 219368
TOF Mult
BBC-S-East ADC Sum

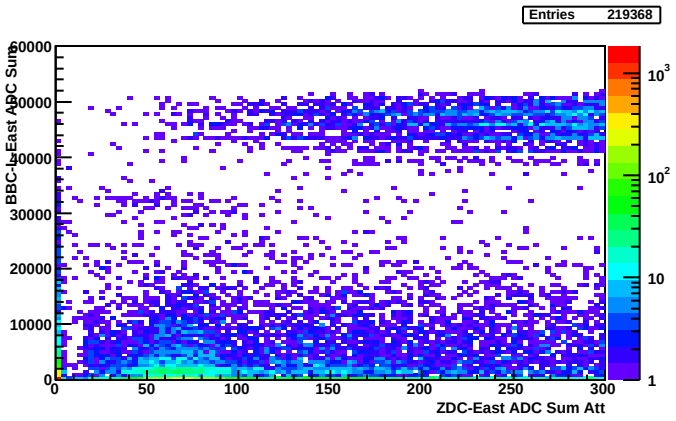

Entries 219368
TOF Mult
BBC-S-West ADC Sum

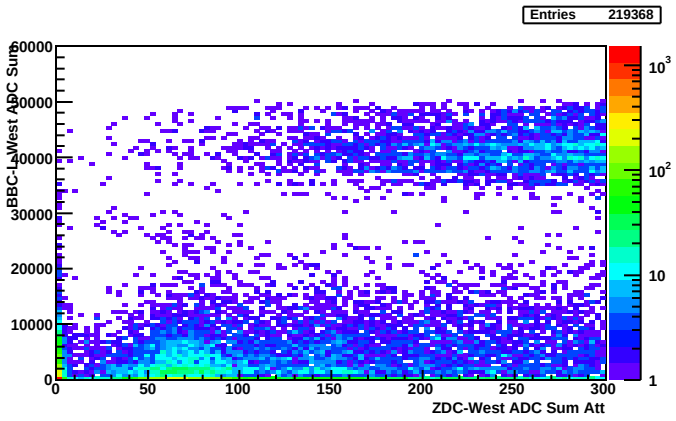

Entries 219368
TOF Mult
ZDC-East ADC Sum Att


Entries 219368
TOF Mult
ZDC-West ADC Sum Att


Entries 219368
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 219368
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 219368
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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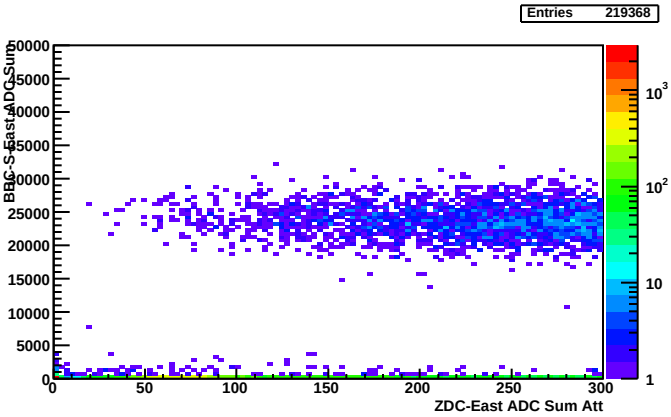
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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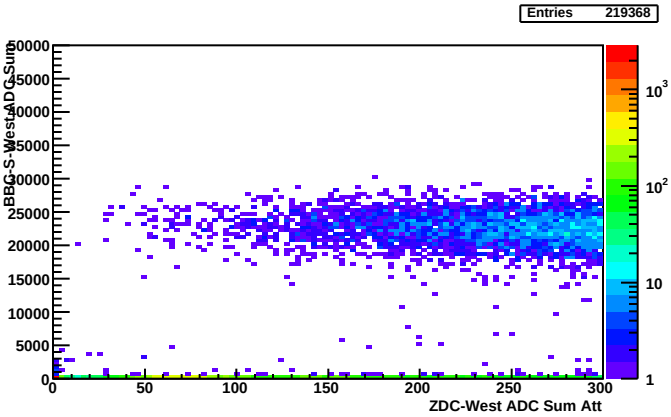
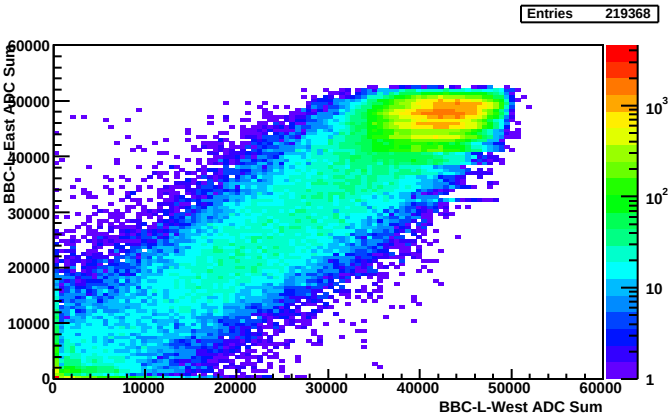
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 219368
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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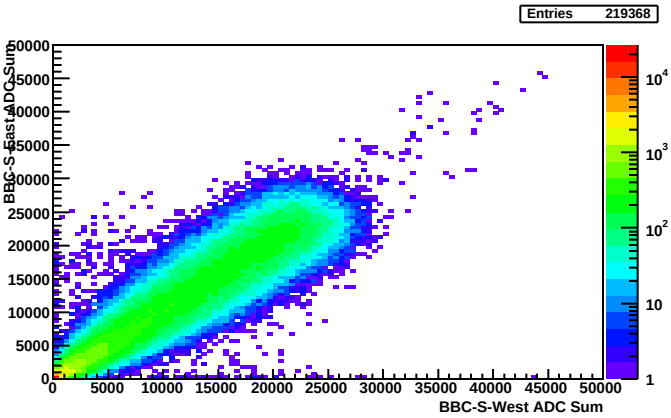
BBC-L-East ADC Sum
BBC-L-West ADC Sum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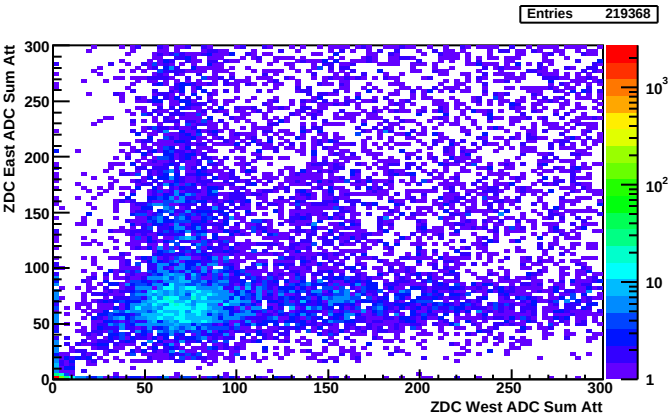
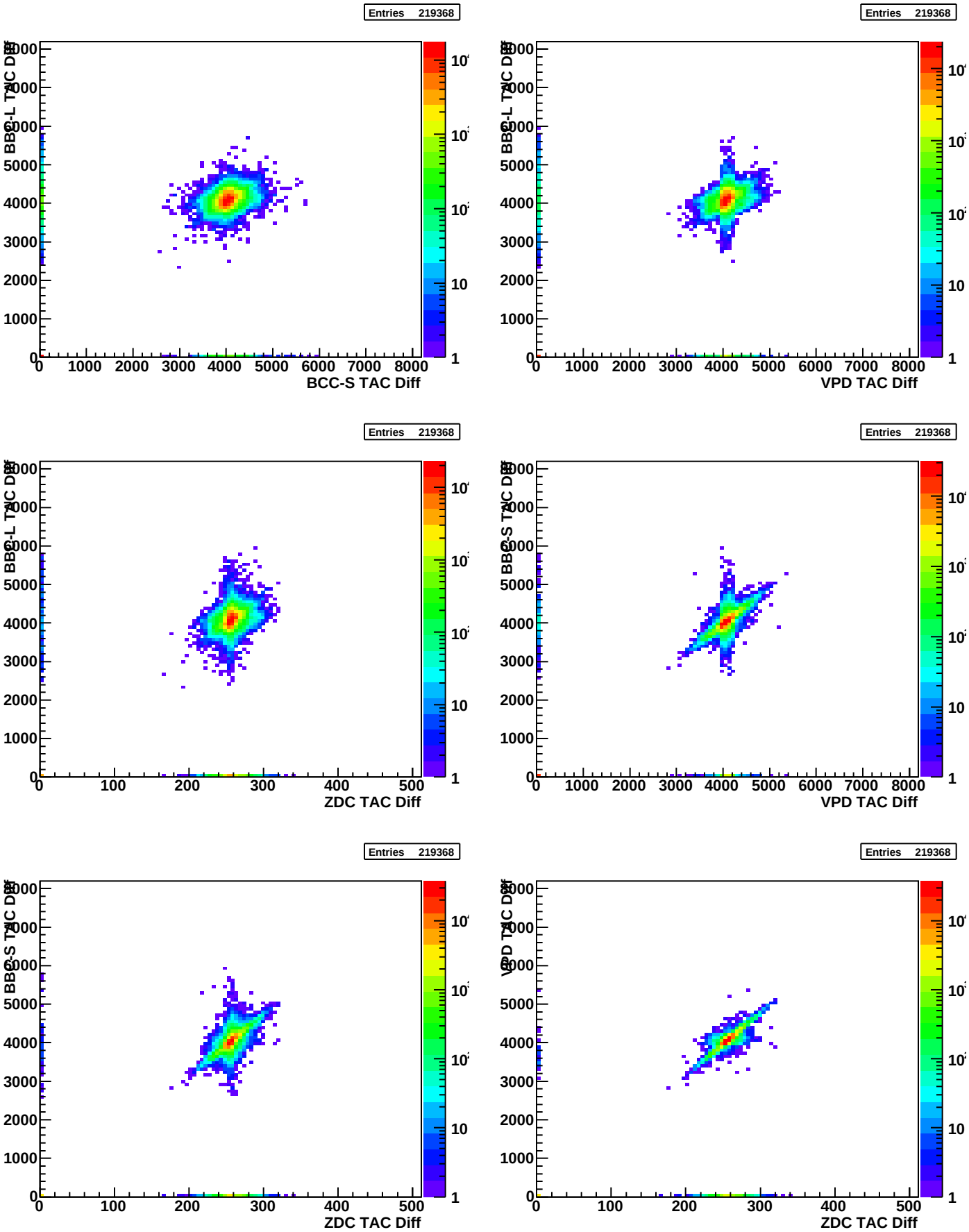
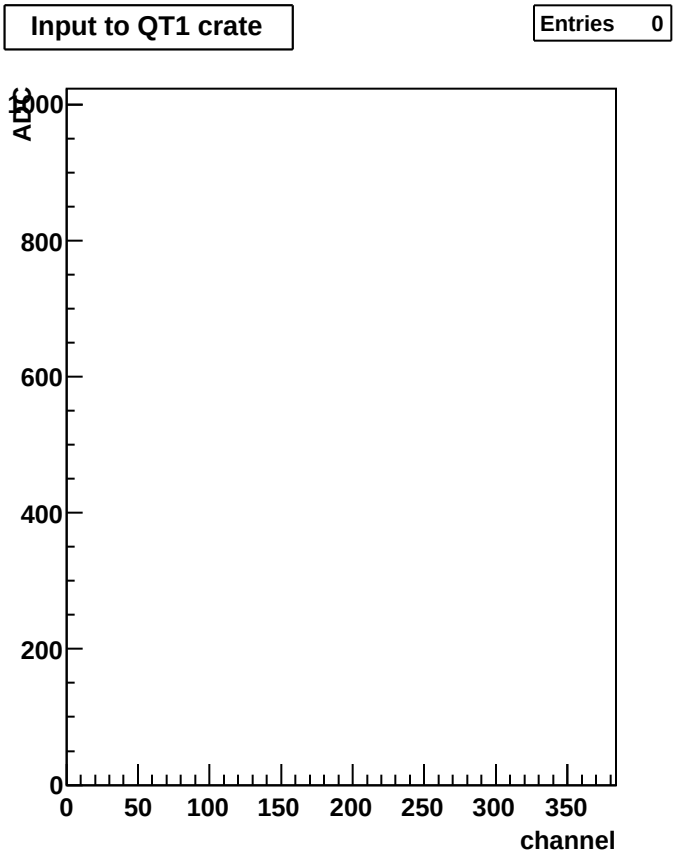
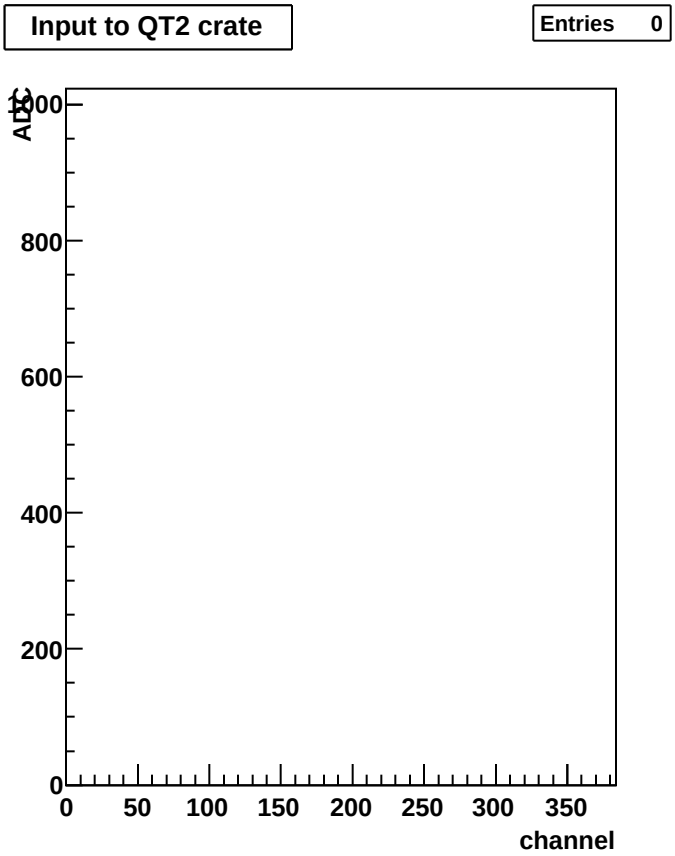
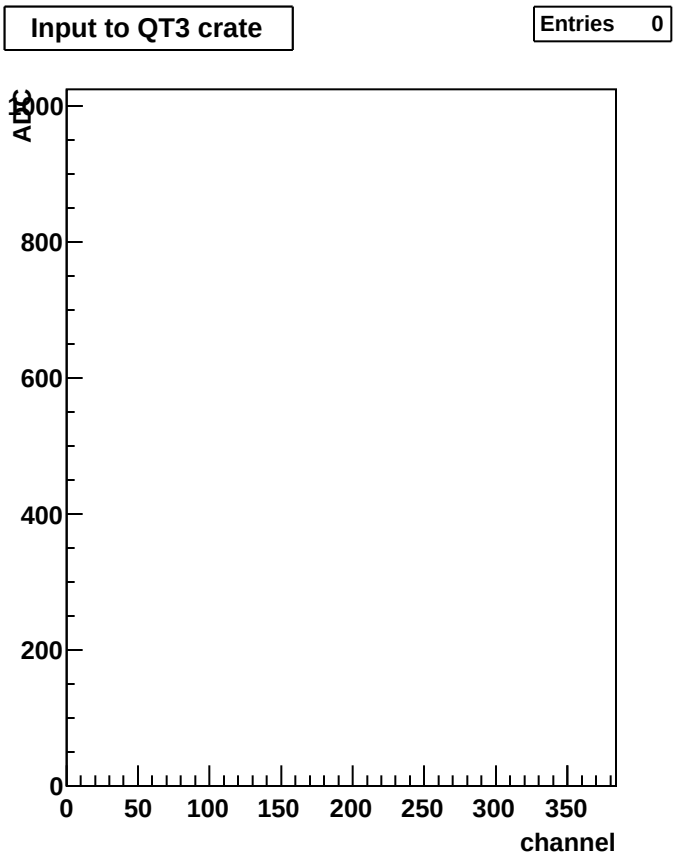
BBC-S-East ADC Sum
BBC-S-West ADC Sum

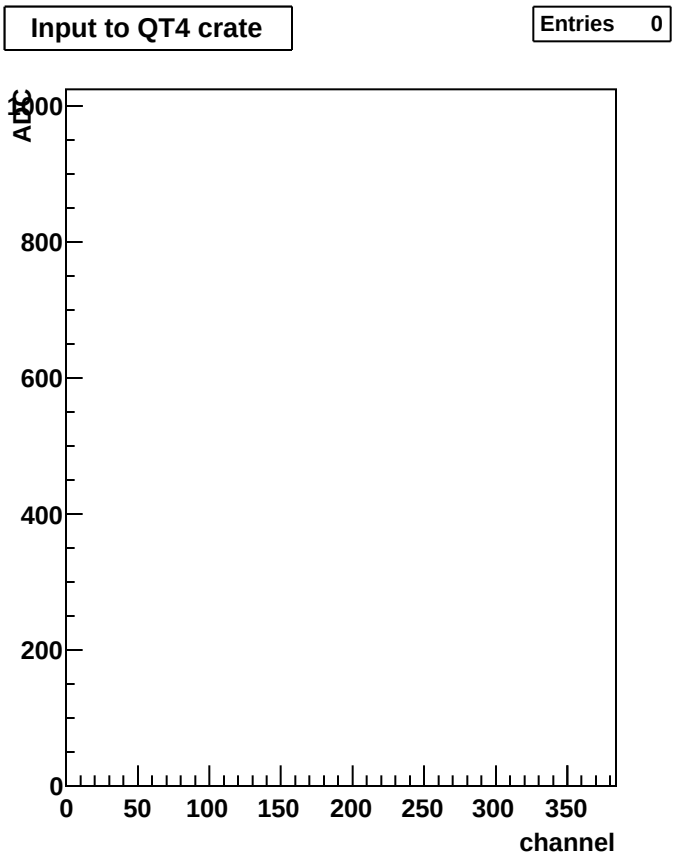

Entries 219368
ZDC East ADC Sum Att
ZDC West ADC Sum Att

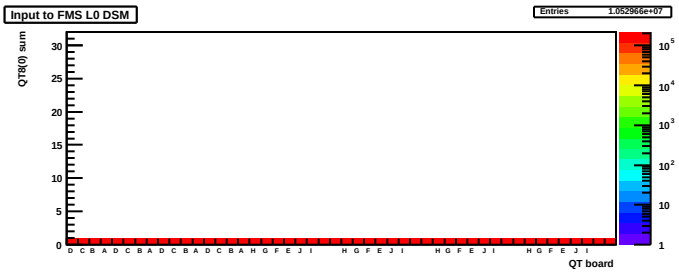

Entries 219368
BBC-L TAC Diff
BCC-S TAC Diff
Entries 219368
BBC-L TAC Diff
VPD TAC Diff
Entries 219368
BBC-L TAC Diff
ZDC TAC Diff
Entries 219368
BBC-S TAC Diff
VPD TAC Diff
Entries 219368
BBC-S TAC Diff
ZDC TAC Diff
Entries 219368
VPD TAC Diff
ZDC TAC Diff

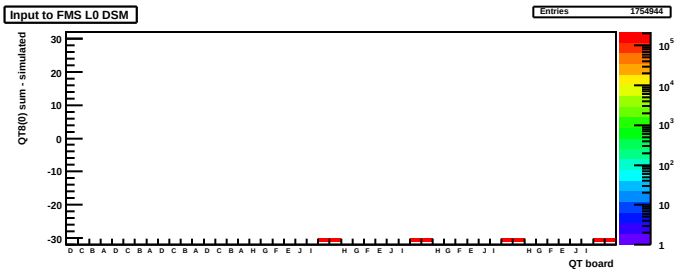

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

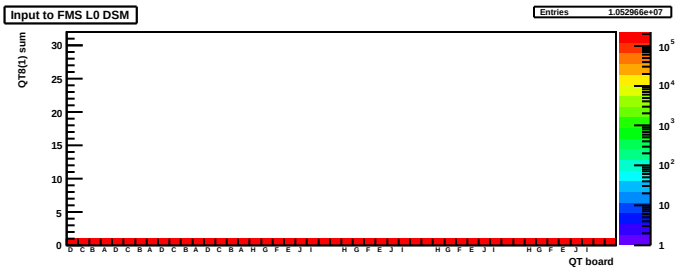

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

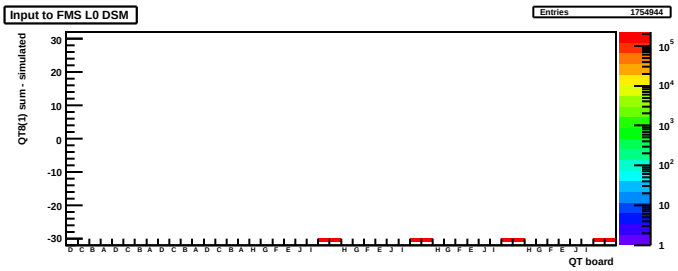

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

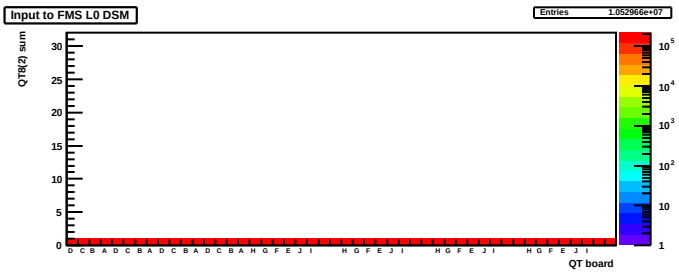

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

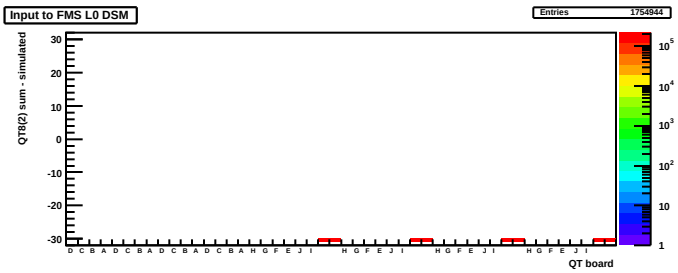

Input to FMS L0 DSM
Entries 1.052966e+07
QT8(0) sum
QT board

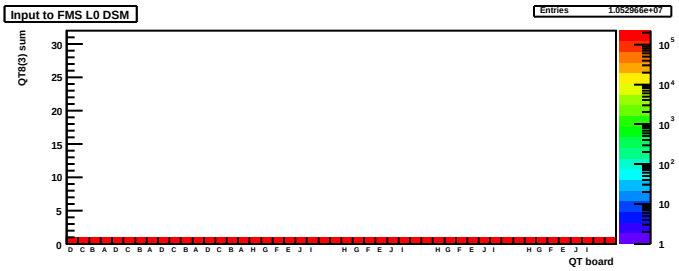

Input to FMS L0 DSM
Entries 1754944
QT8(0) sum - simulated
QT board

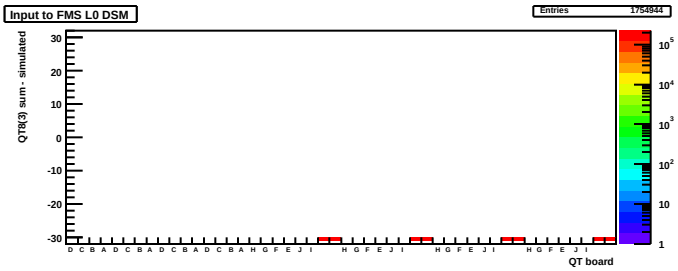

Input to FMS L0 DSM
Entries 1.052966e+07
QT8(1) sum
QT board

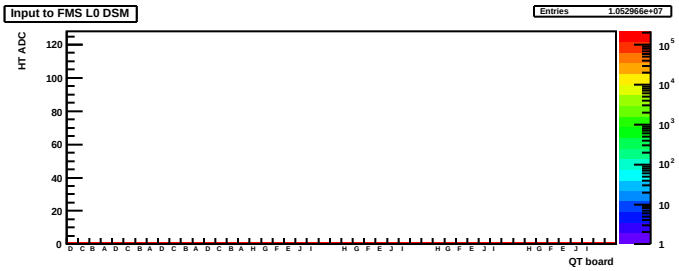

Input to FMS L0 DSM
Entries 1754944
QT8(1) sum - simulated
QT board

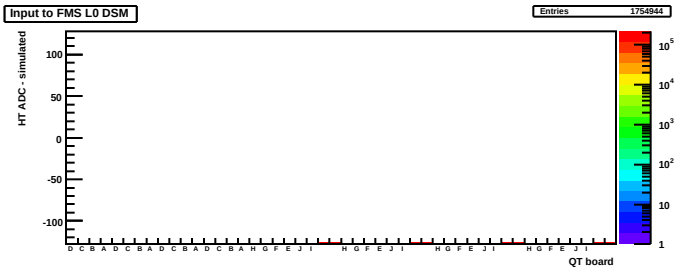

Input to FMS L0 DSM
Entries 1.052966e+07
QT8(2) sum
QT board

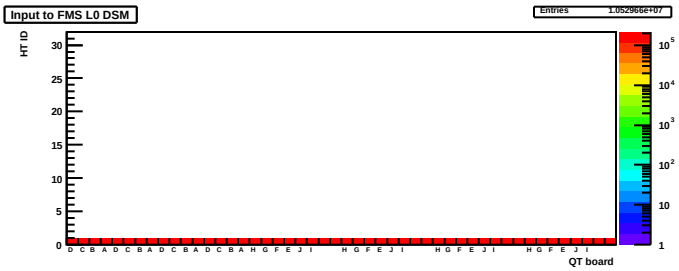

Input to FMS L0 DSM
Entries 1754944
QT8(2) sum - simulated
QT board

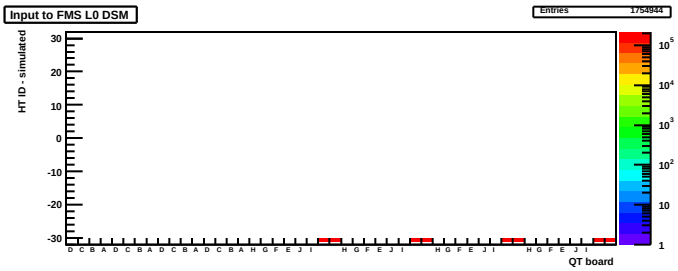

Input to FMS L0 DSM
Entries 1.052966e+07
QT8(3) sum
QT board

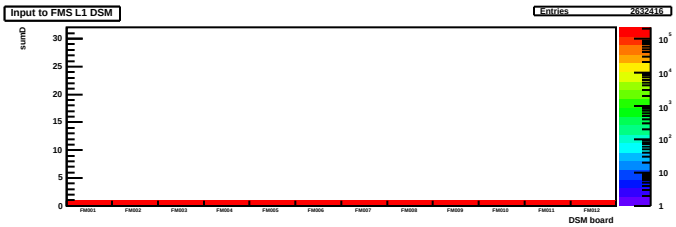

Input to FMS L0 DSM
Entries 1754944
QT8(3) sum - simulated
QT board

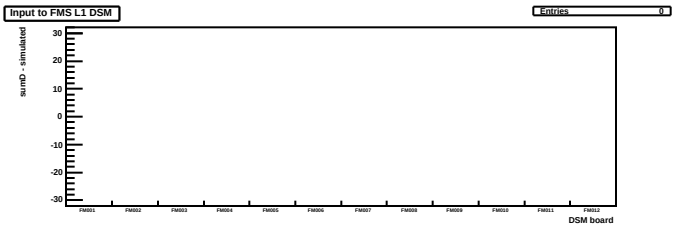

Input to FMS L0 DSM
Entries 1.052966e+07
HT ADC
QT board

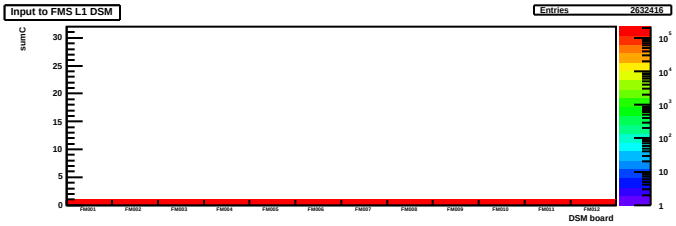

Input to FMS L0 DSM
Entries 1754944
HT ADC - simulated
QT board

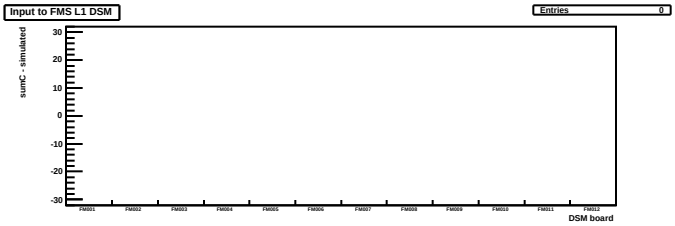

Input to FMS L0 DSM
Entries 1.052966e+07
HT ID
QT board

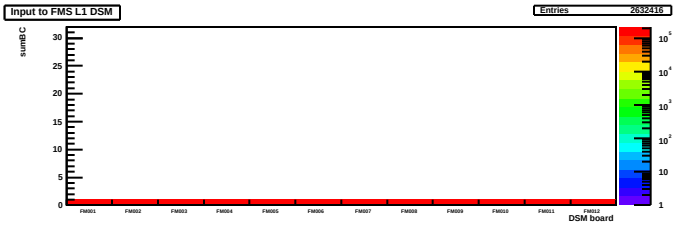

Input to FMS L0 DSM
Entries 1754944
HT ID - simulated
QT board

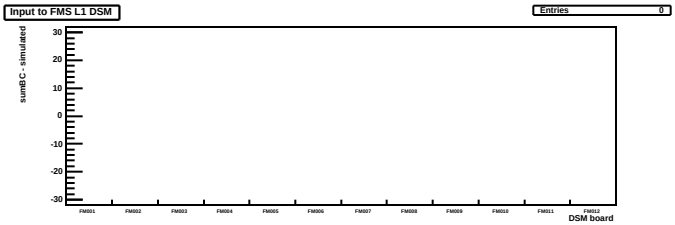

Input to FMS L1 DSM
Entries 2632416
sumD
DSM board

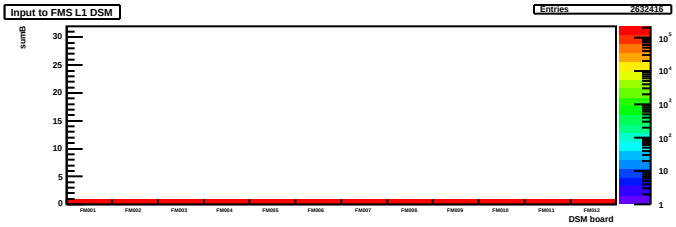

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

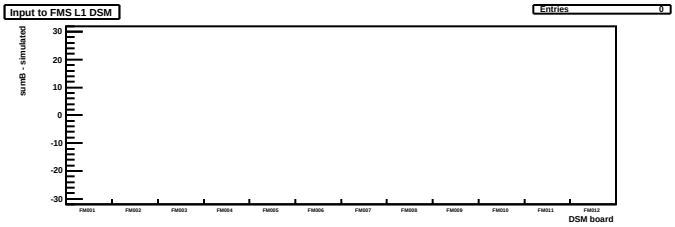

Input to FMS L1 DSM
Entries 2632416
sumC
DSM board

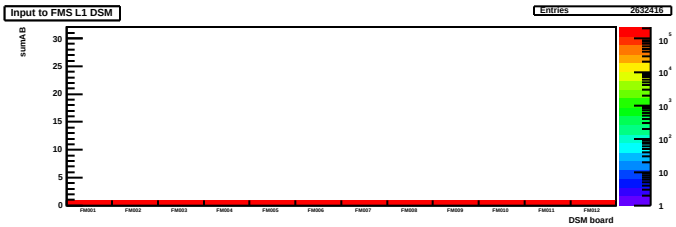

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

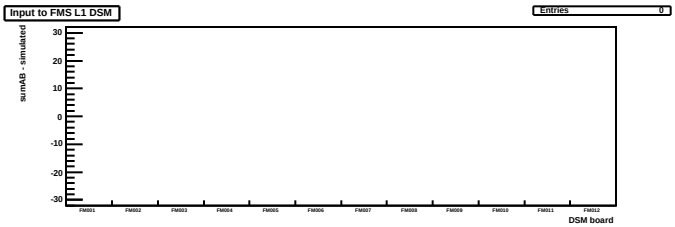

Input to FMS L1 DSM
Entries 2632416
sumBC
DSM board

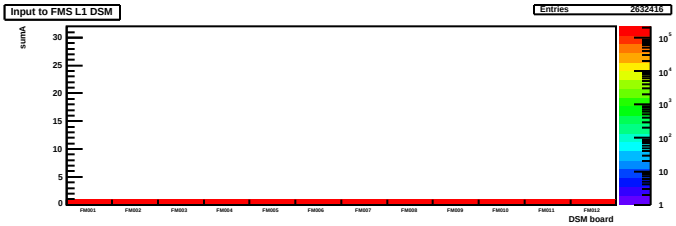

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

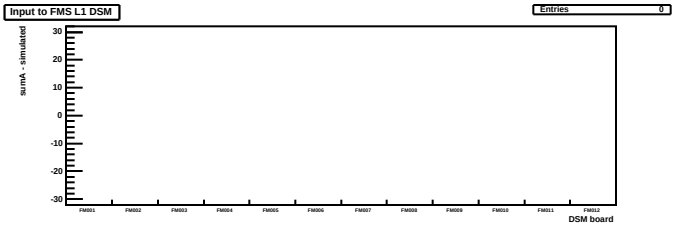

Input to FMS L1 DSM
Entries 2632416
sumB
DSM board

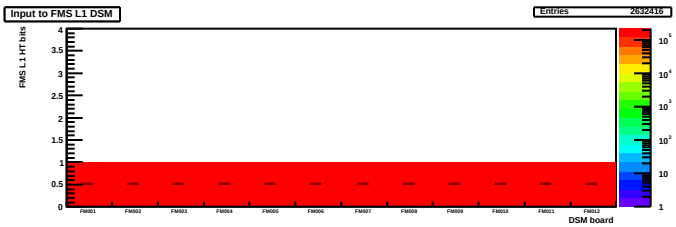

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

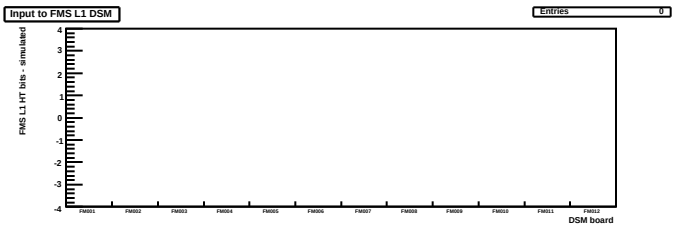

Input to FMS L1 DSM
Entries 2632416
sumAB
DSM board

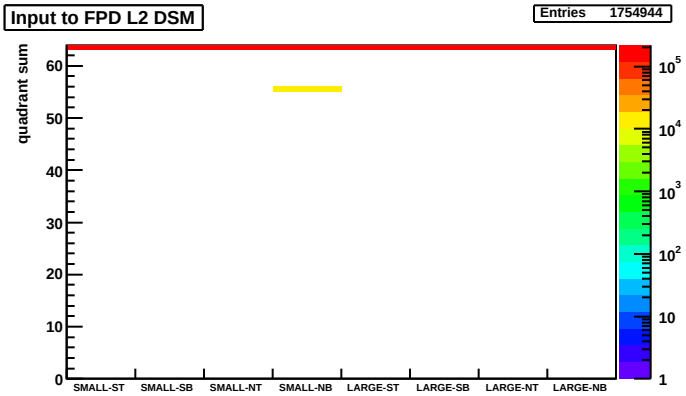

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

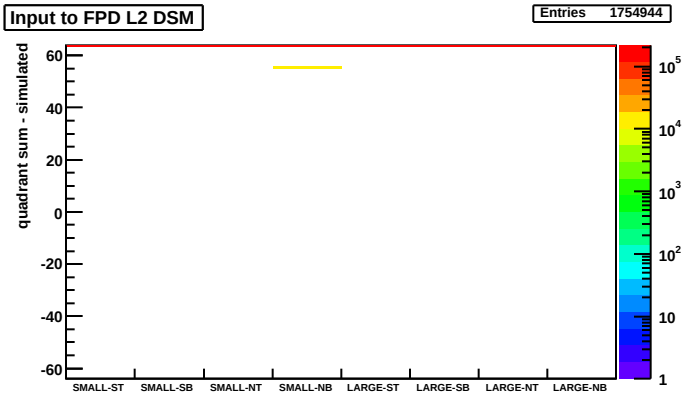

Input to FMS L1 DSM
Entries 2632416
sumA
DSM board

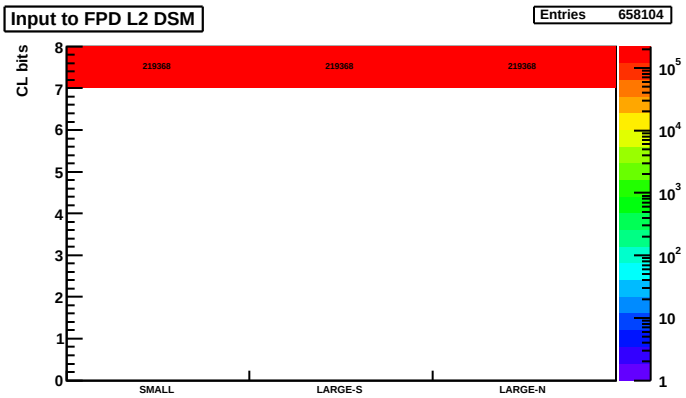

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

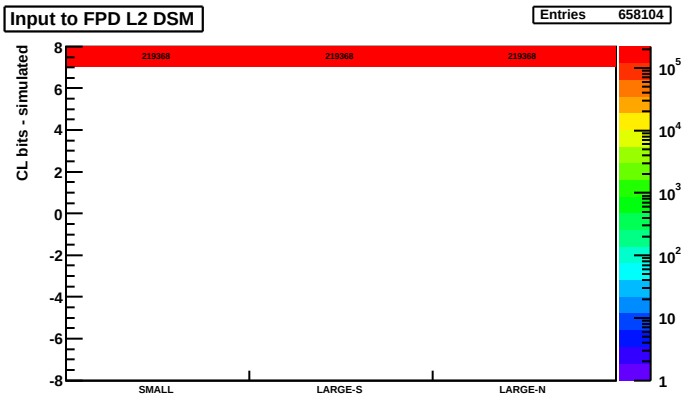

Input to FMS L1 DSM
Entries 2632416
FMS L1 HT bits
DSM board

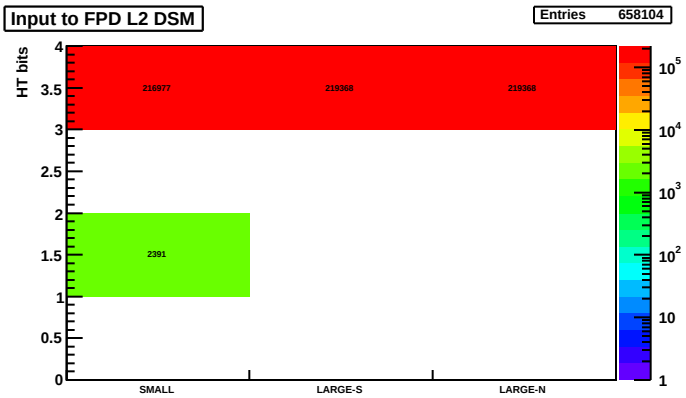

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

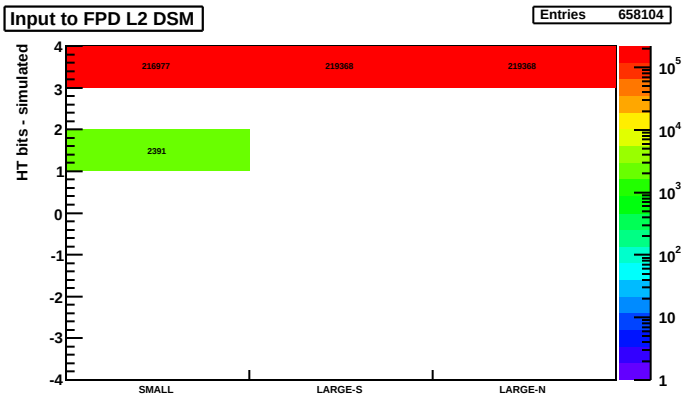

Input to FPD L2 DSM
Entries 1754944
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

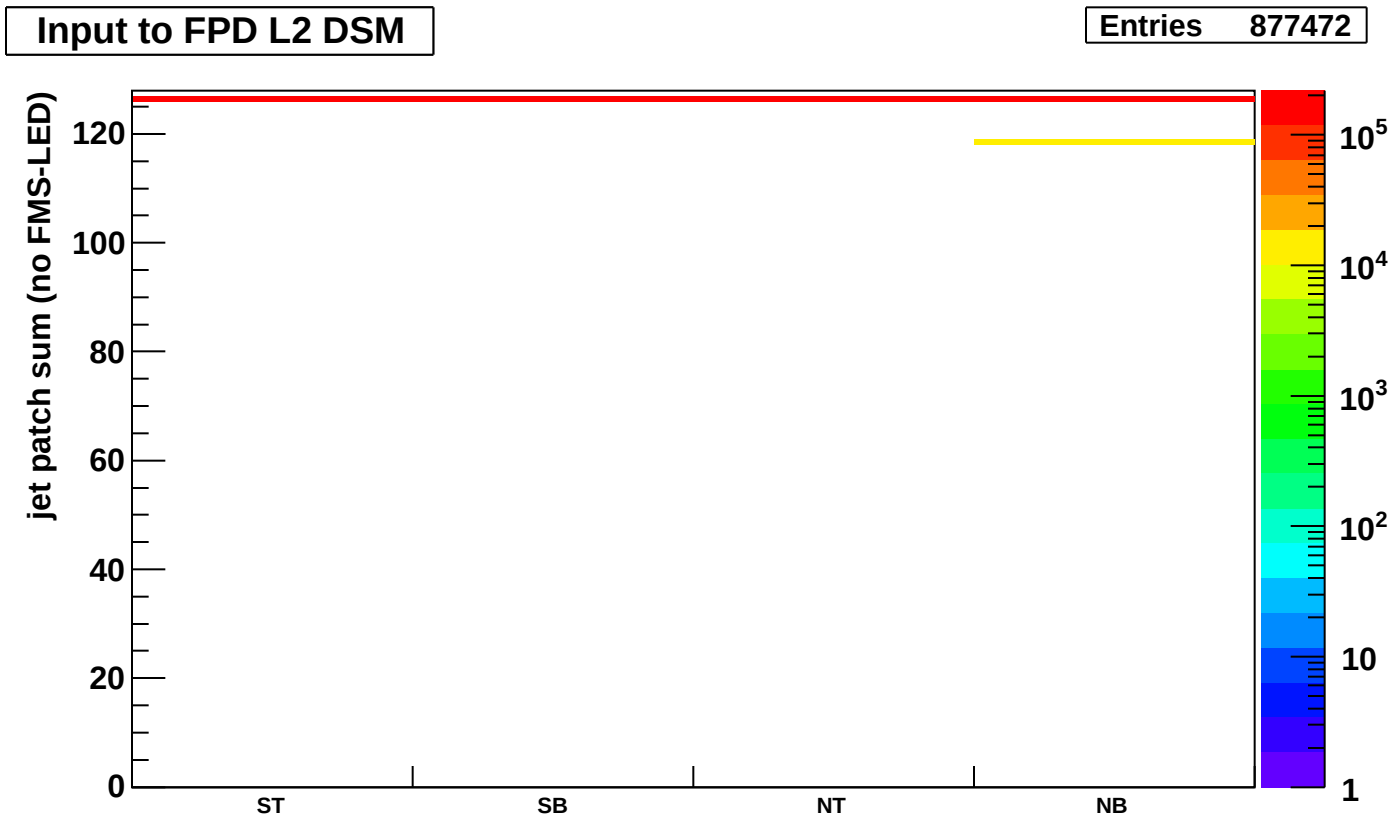

Input to FPD L2 DSM
Entries 1754944
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

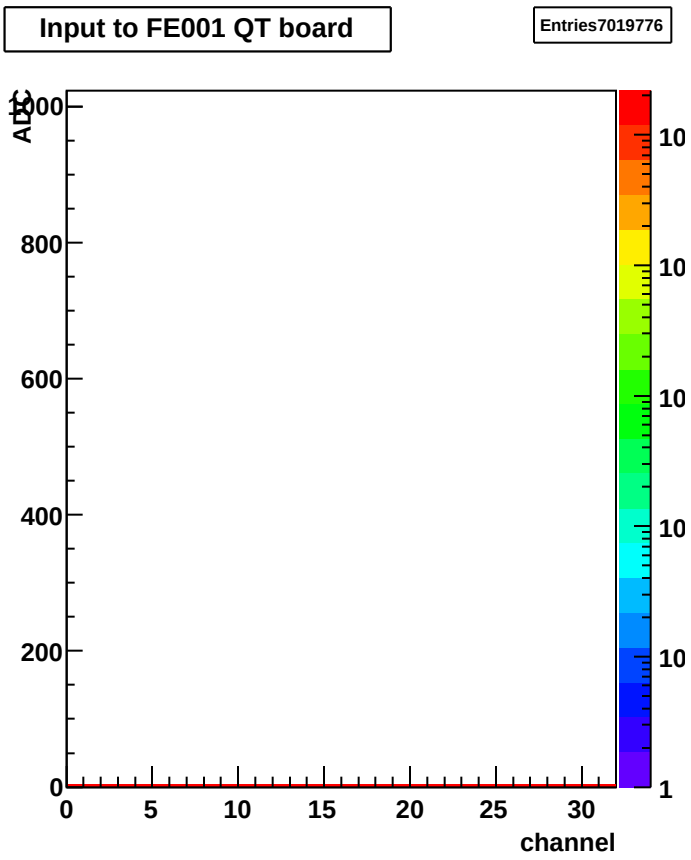

Input to FPD L2 DSM
Entries 658104
CL bits
219368
219368
219368
SMALL
LARGE-S
LARGE-N

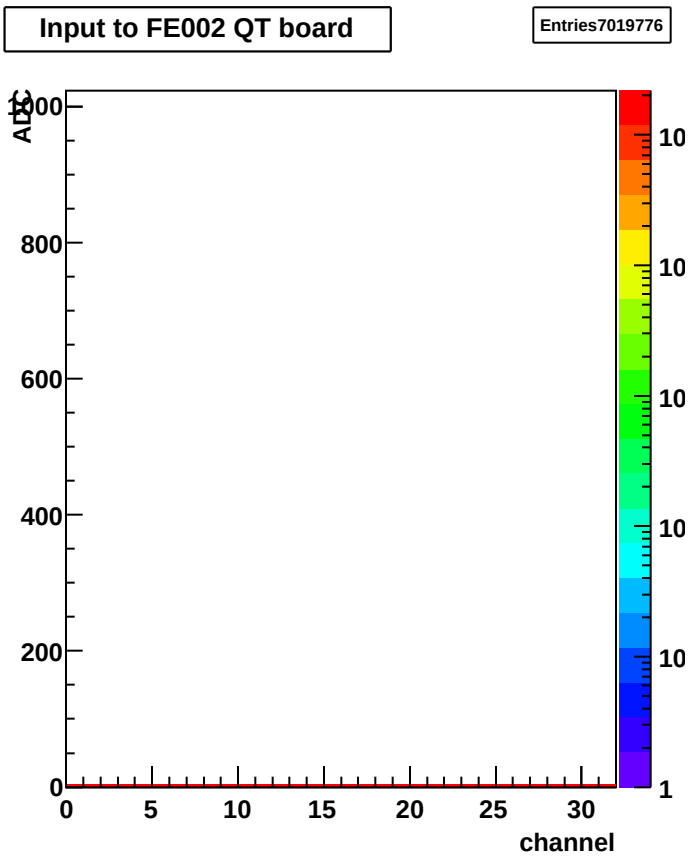

Input to FPD L2 DSM
Entries 658104
CL bits - simulated
219368
219368
219368
SMALL
LARGE-S
LARGE-N

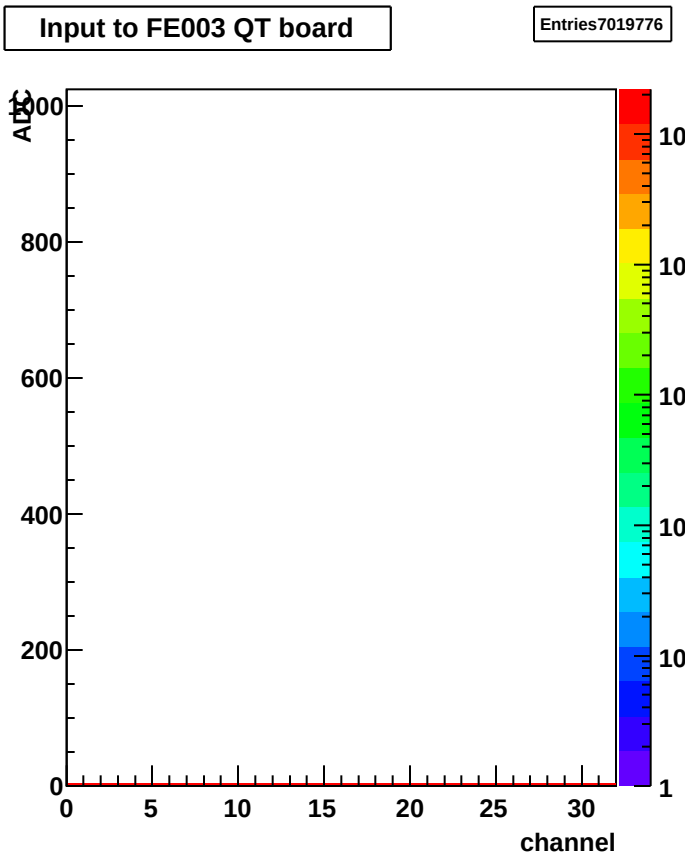

Input to FPD L2 DSM
Entries 658104
HT bits
216977
219368
219368
2391
SMALL
LARGE-S
LARGE-N

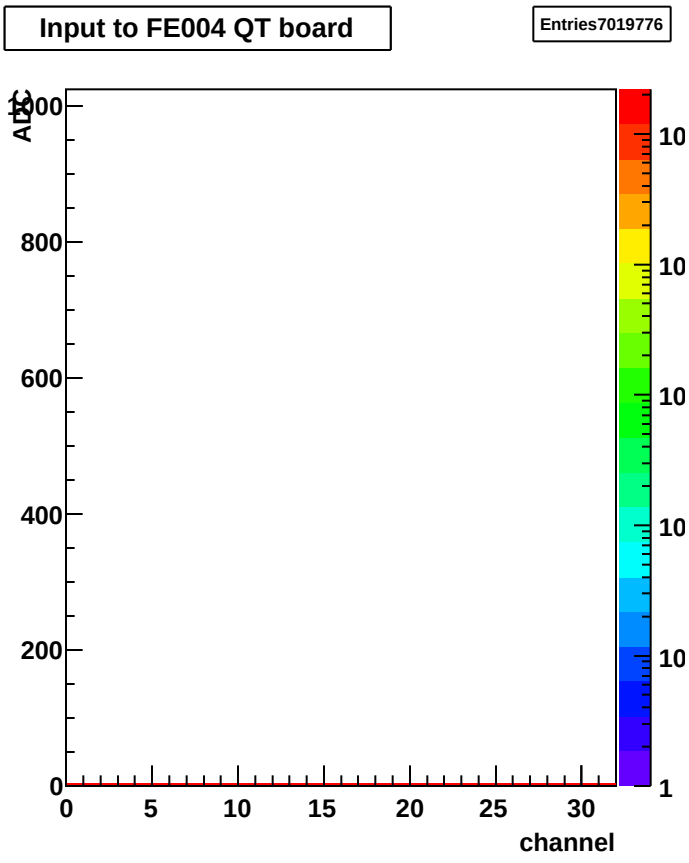

Input to FPD L2 DSM
Entries 658104
HT bits - simulated
216977
219368
219368
2391
SMALL
LARGE-S
LARGE-N

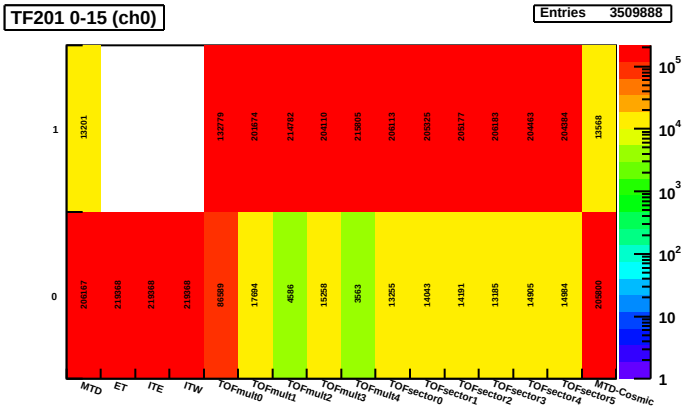

Input to FPD L2 DSM
Entries 877472
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

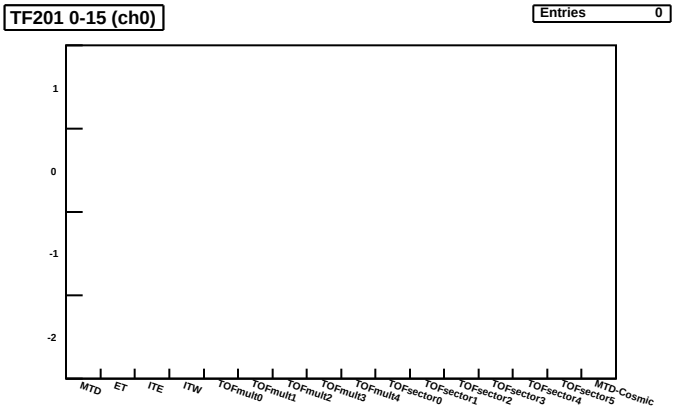

Input to FE001 QT board
Entries7019776
ADC
channel

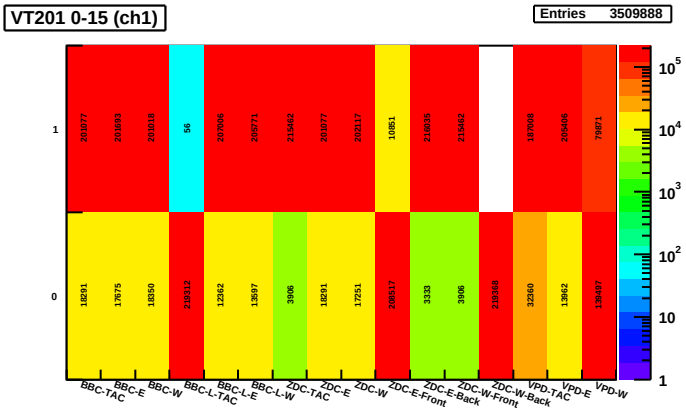

Input to FE002 QT board
Entries7019776
ADC
channel

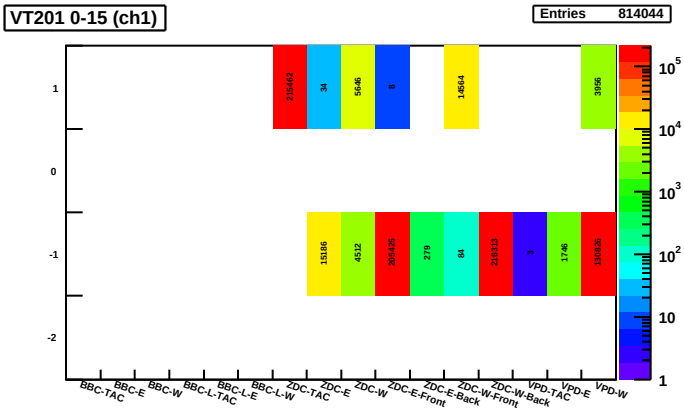

Input to FE003 QT board
Entries7019776
ADC
channel

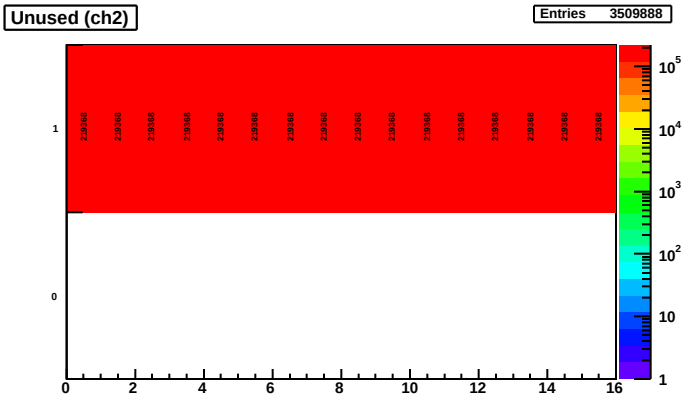

Input to FE004 QT board
Entries7019776
ADC
channel

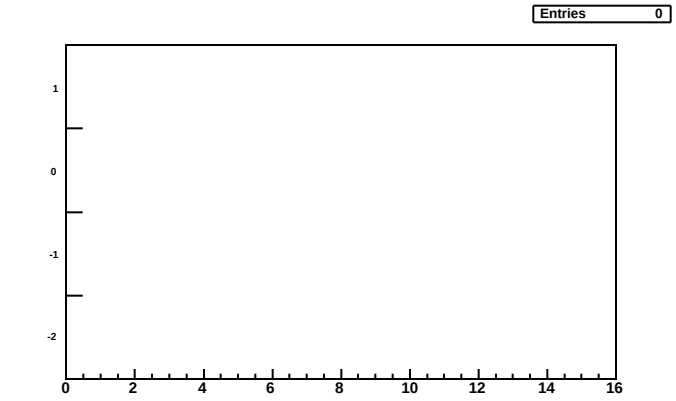

TF201 0-15 (ch0)
Entries 3509888
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

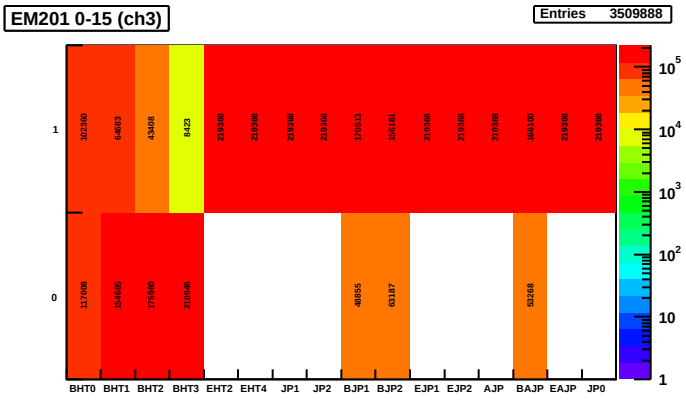

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

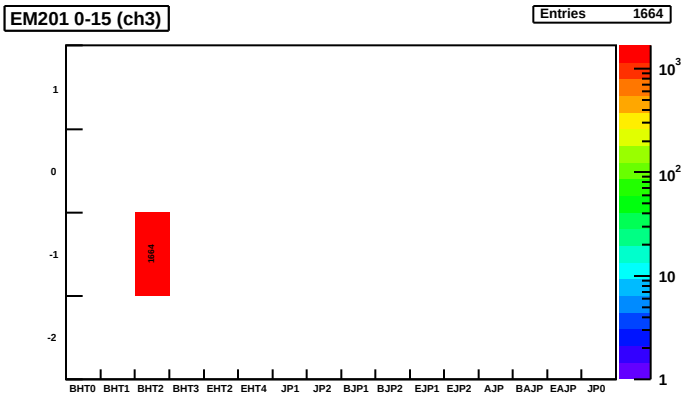

VT201 0-15 (ch1)
Entries 3509888
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 814044
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

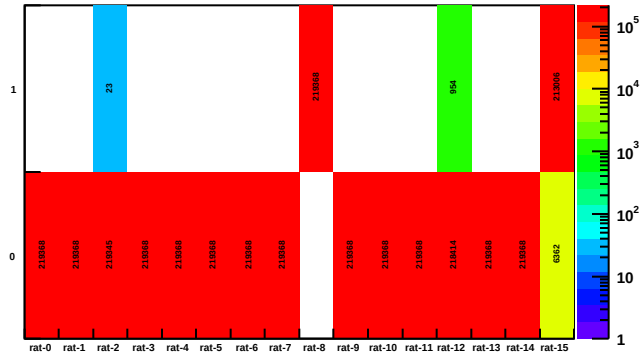

Unused (ch2)
Entries 3509888

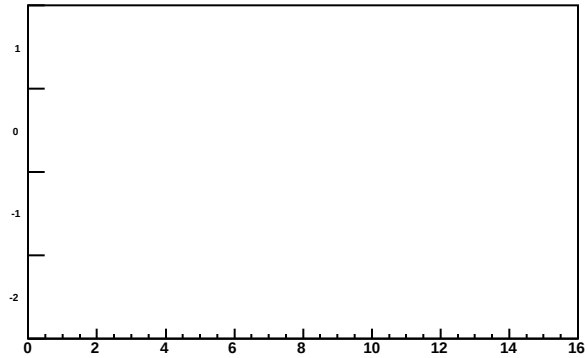

Entries 0


EM201 0-15 (ch3)
Entries 3509888
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

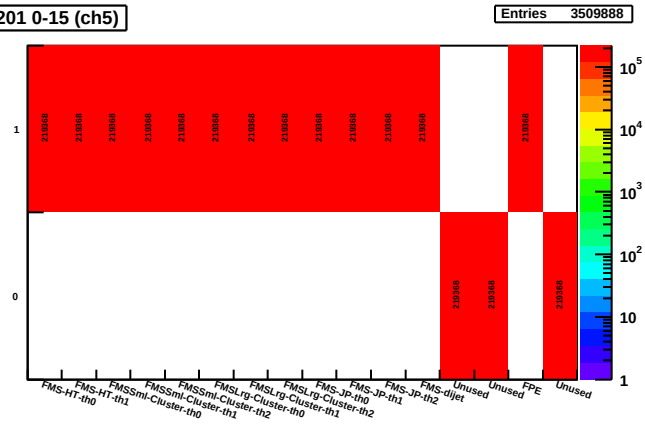

EM201 0-15 (ch3)
Entries 1664
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

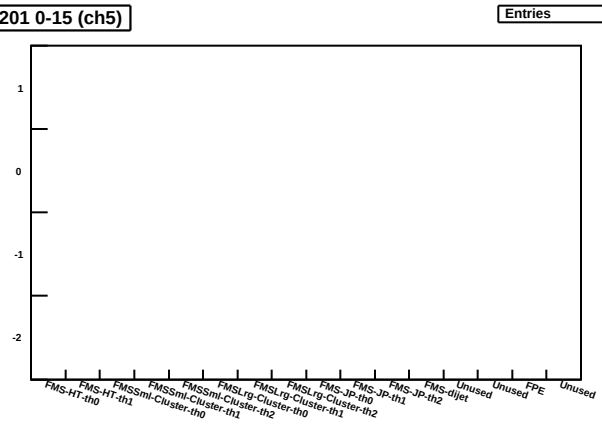




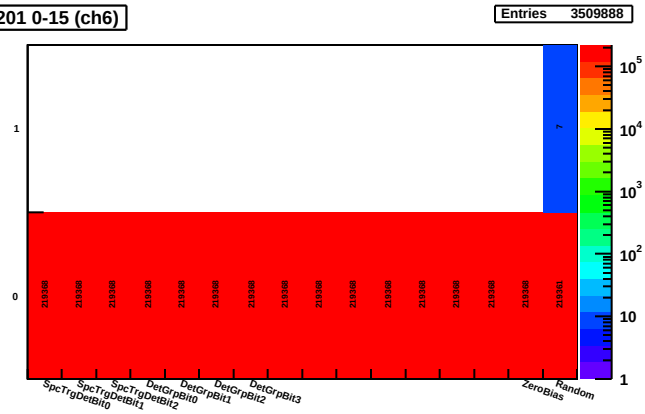
FP201 0-15 (ch5)

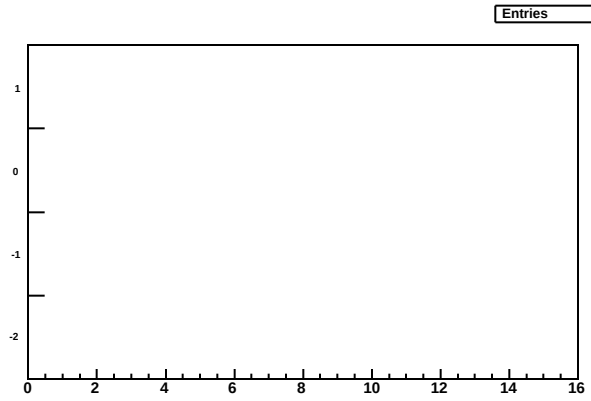
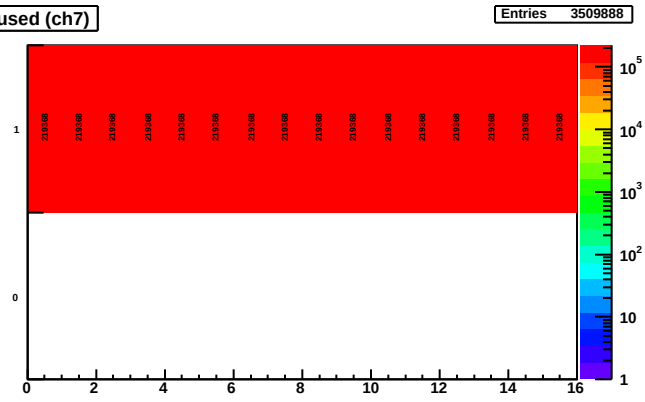
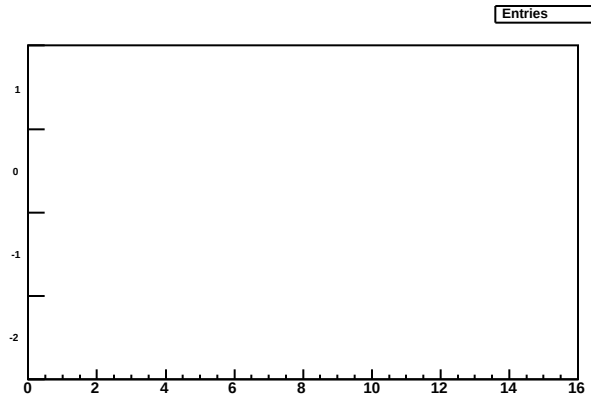


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)