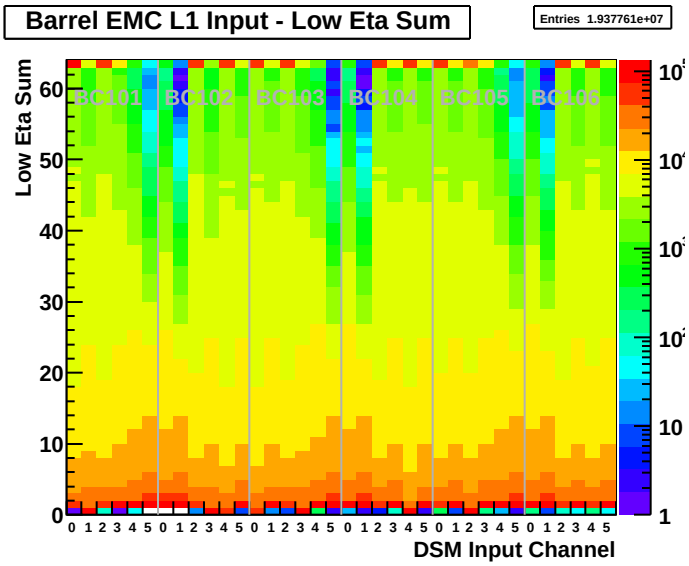
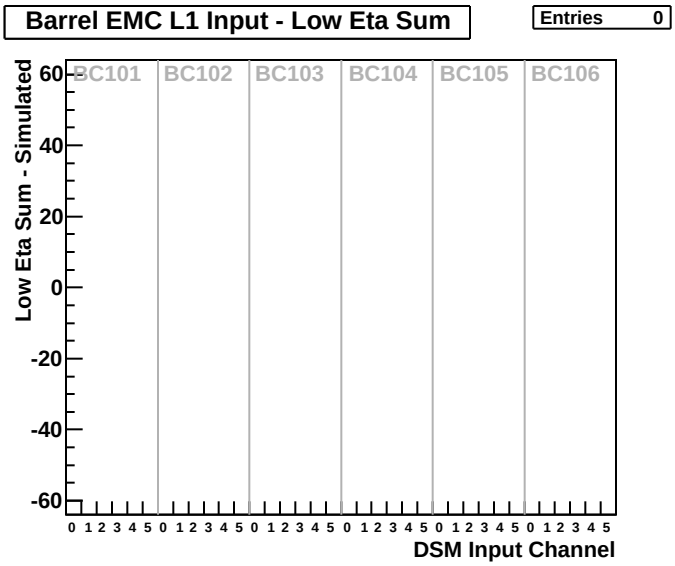
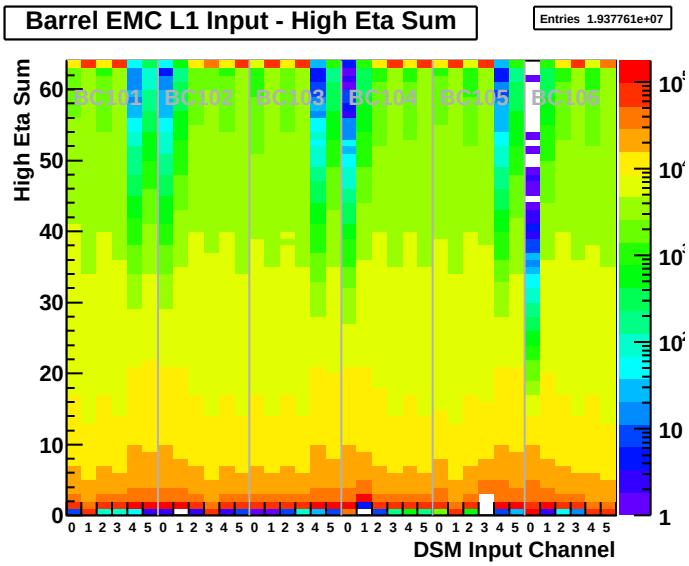
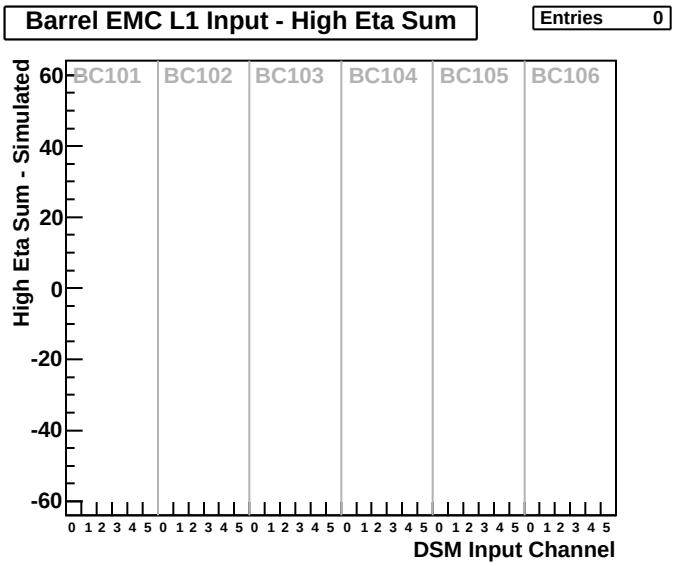
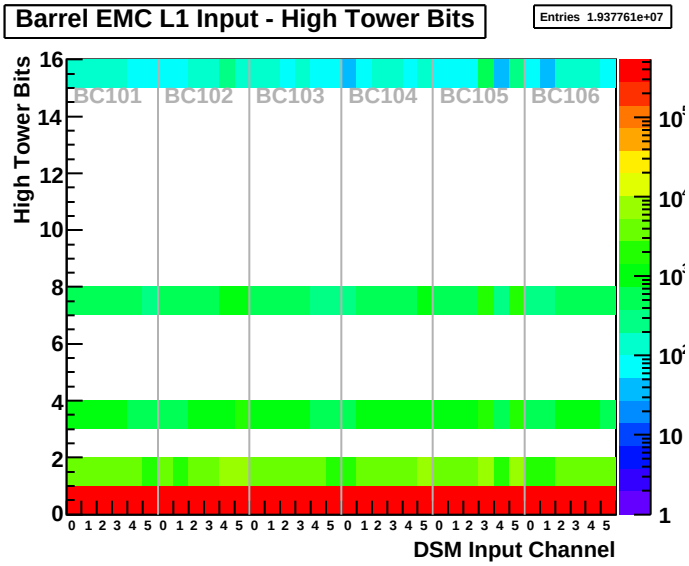
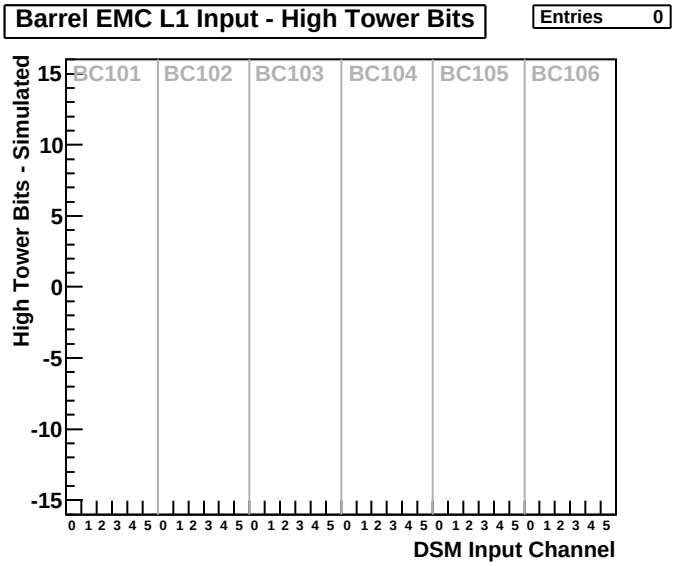

Barrel EMC L1 Input - Low Eta Sum
Entries 1.937761e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

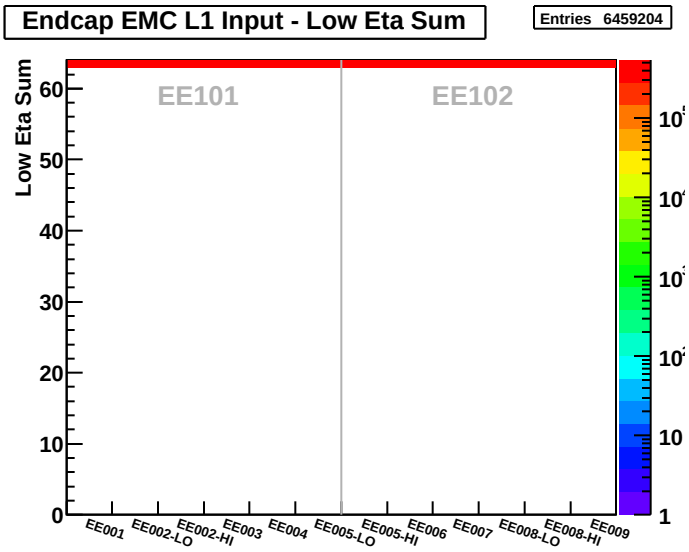

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

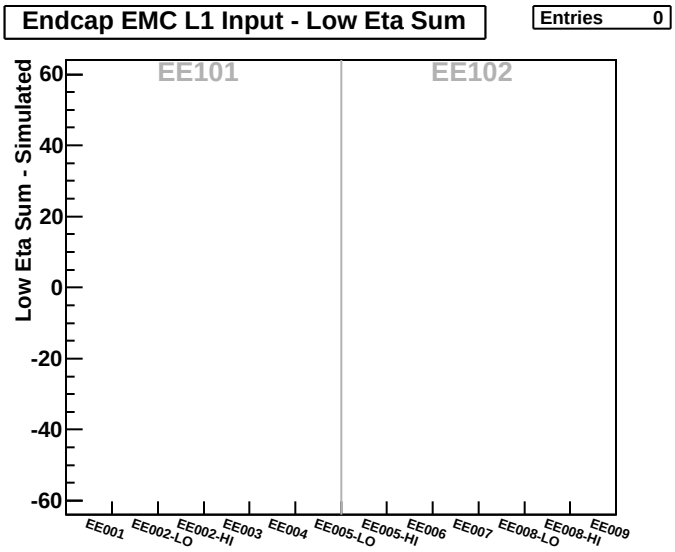

Barrel EMC L1 Input - High Eta Sum
Entries 1.937761e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

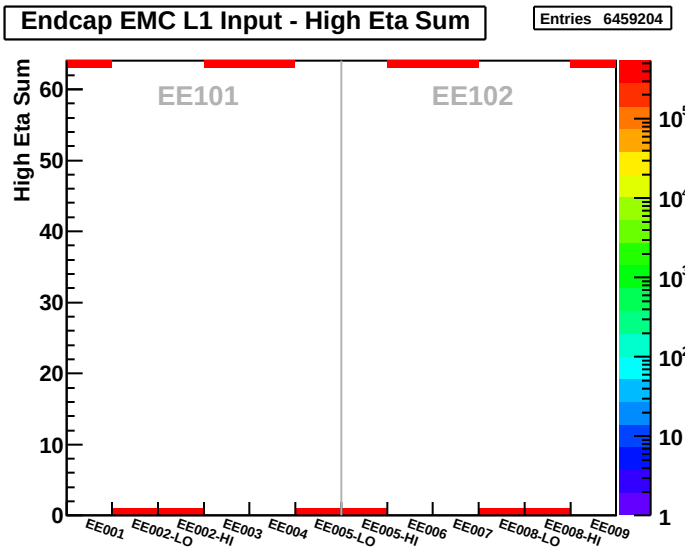

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

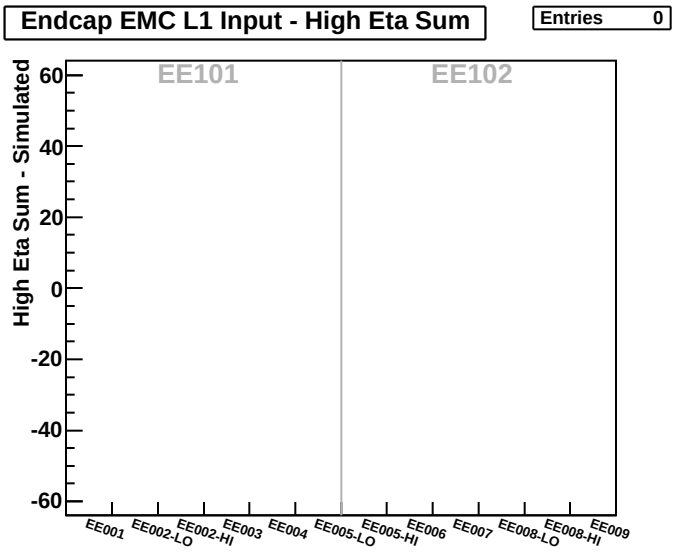

Barrel EMC L1 Input - High Tower Bits
Entries 1.937761e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

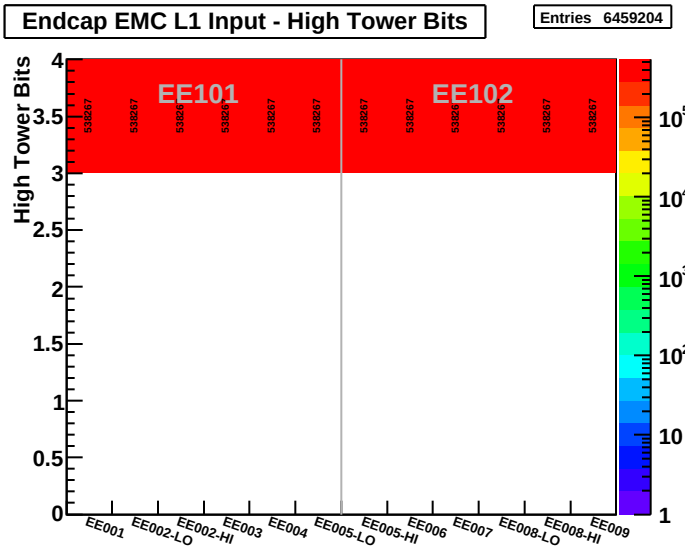

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

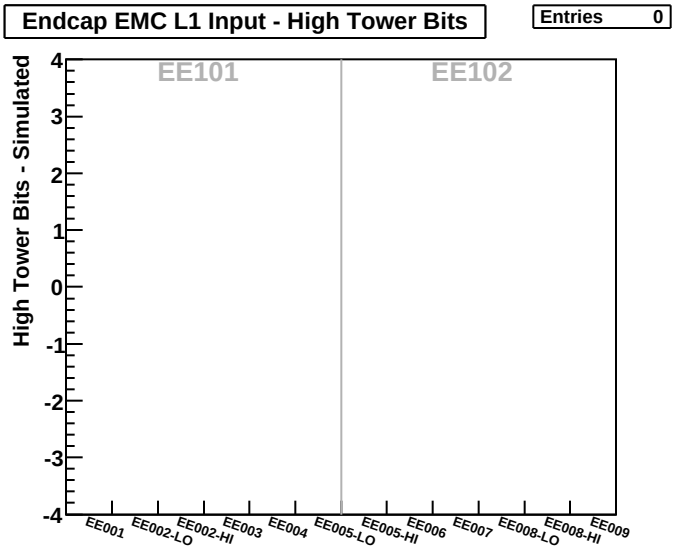

Endcap EMC L1 Input - Low Eta Sum
Entries 6459204
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

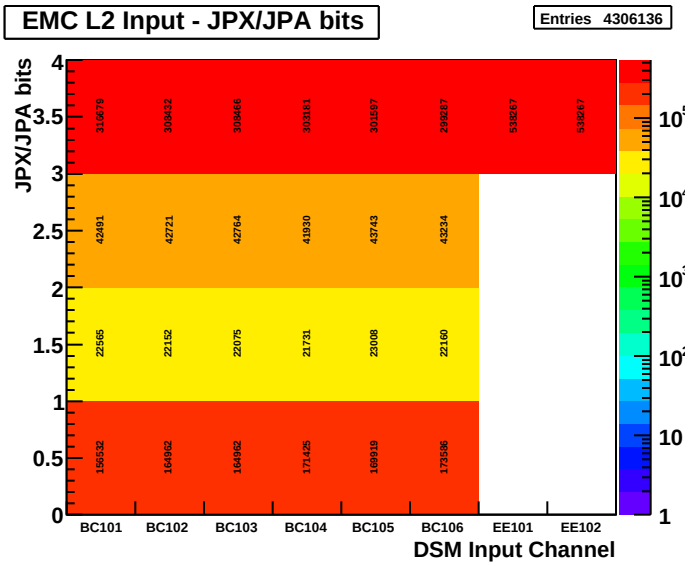

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

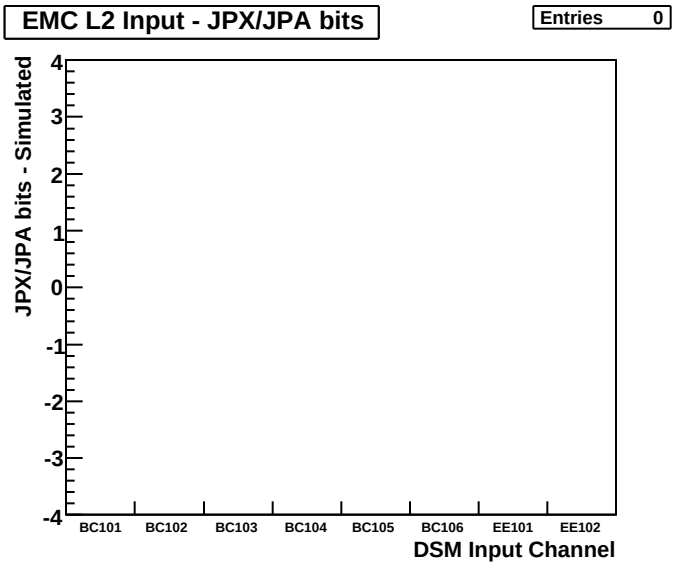

Endcap EMC L1 Input - High Eta Sum
Entries 6459204
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

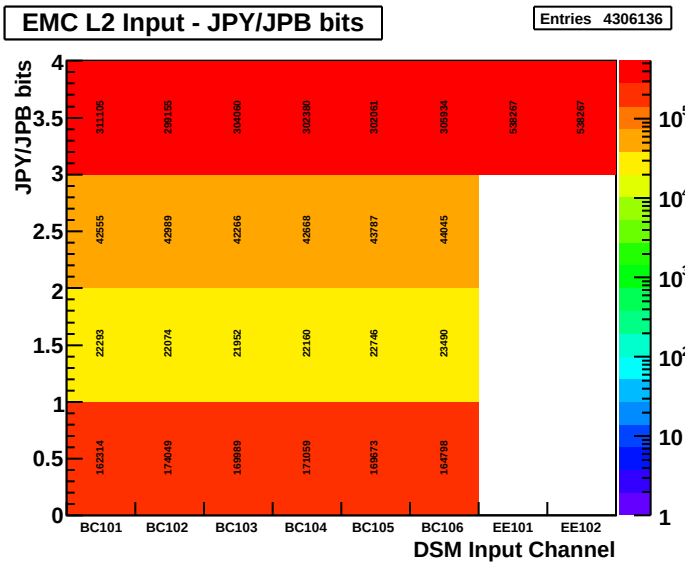

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

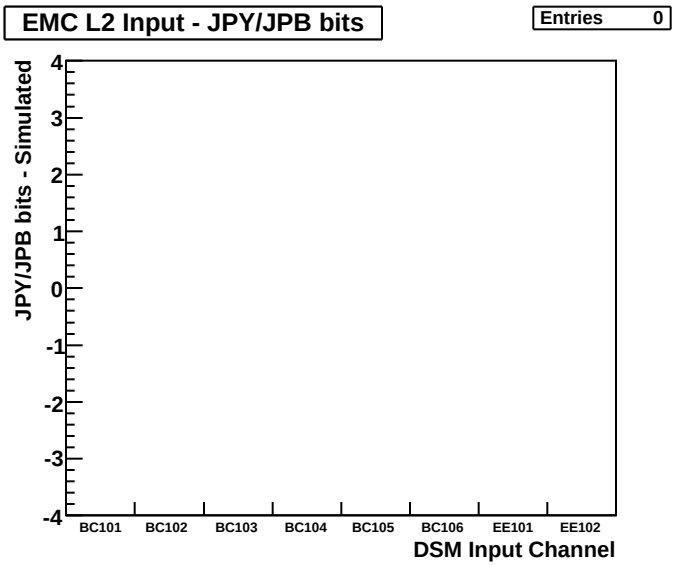

Endcap EMC L1 Input - High Tower Bits
Entries 6459204
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

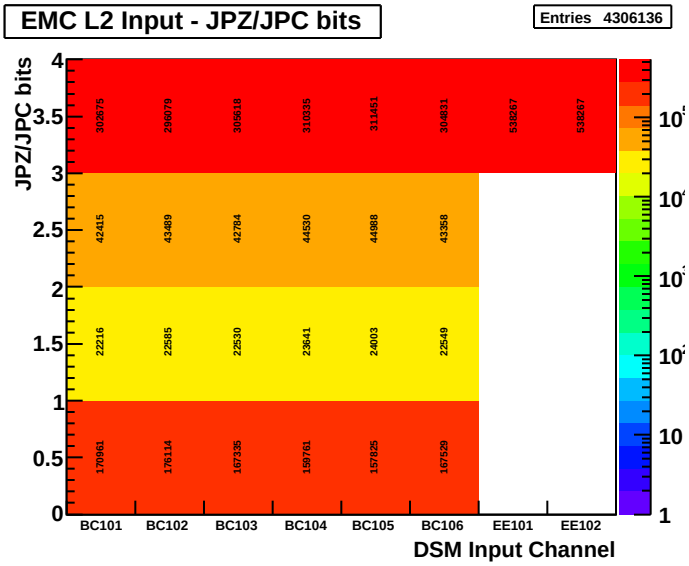

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

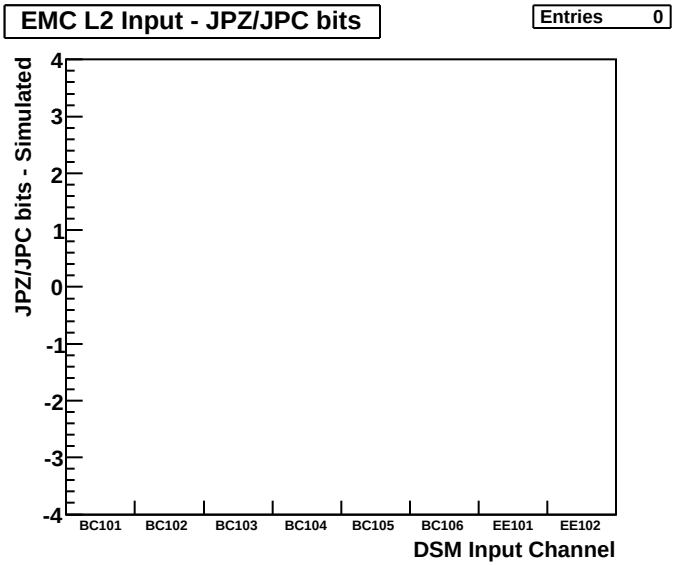

EMC L2 Input - JPX/JPA bits
Entries 4306136
JPX/JPA bits
316679 308432 308466 303181 301597 299287 538267 538267
42491 42721 42764 41930 43743 43234
22565 22152 22075 21731 23008 22160
156532 164962 164962 171425 169919 173586
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

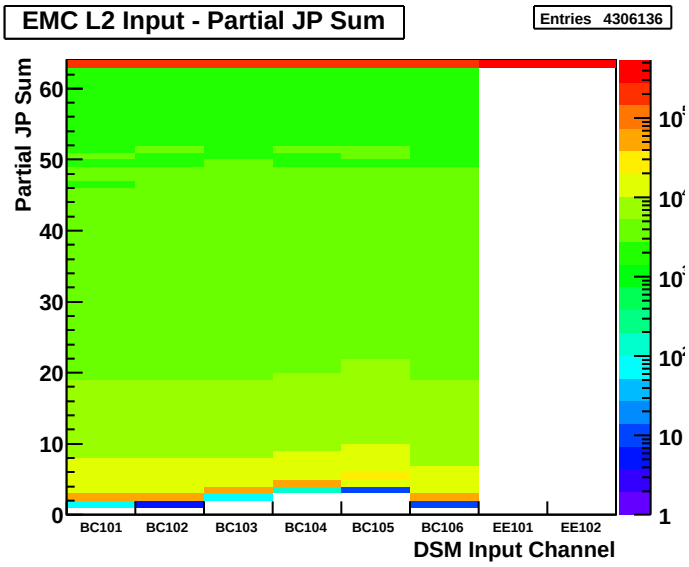

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

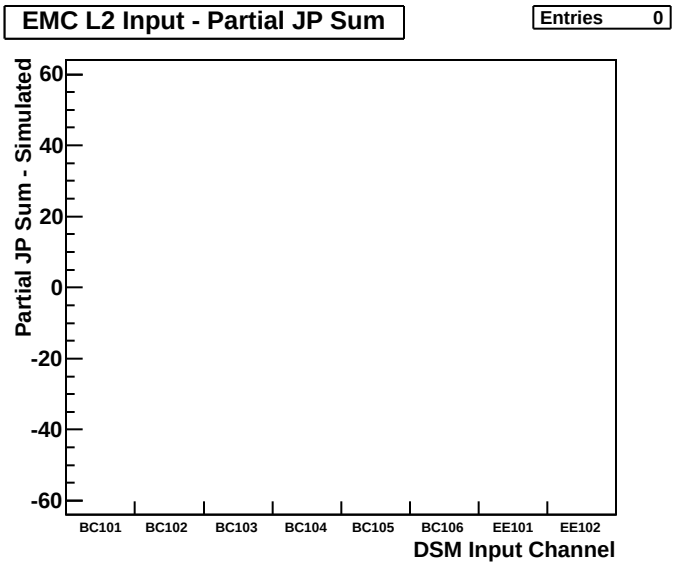

EMC L2 Input - JPY/JPB bits
Entries 4306136
JPY/JPB bits
311105 299155 304060 302380 302061 305934 538267 538267
42555 42989 42266 42668 43787 44045
22293 22074 21952 22160 22746 23490
162314 174049 169989 171059 169673 164798
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

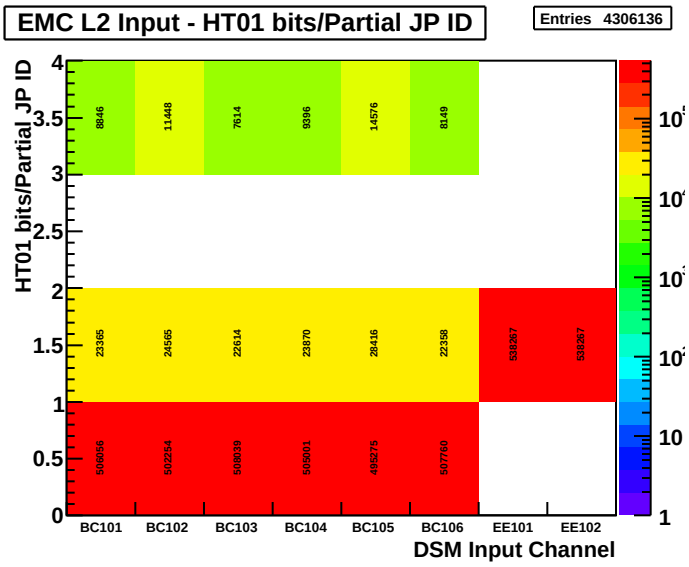

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

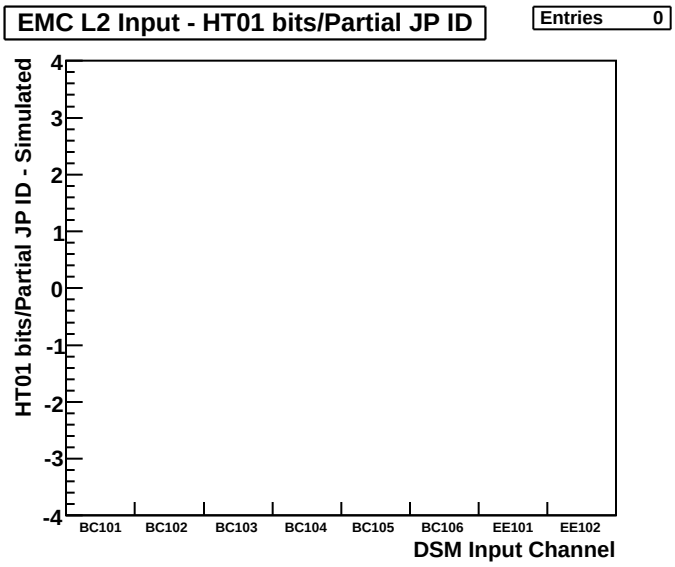

EMC L2 Input - JPZ/JPC bits
Entries 4306136
JPZ/JPC bits
302675 298079 305518 310335 311451 304831 538267 538267
42415 43489 42784 44530 44988 43358
22216 22585 22530 23641 24003 22549
170961 176114 167335 159761 157825 167529
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

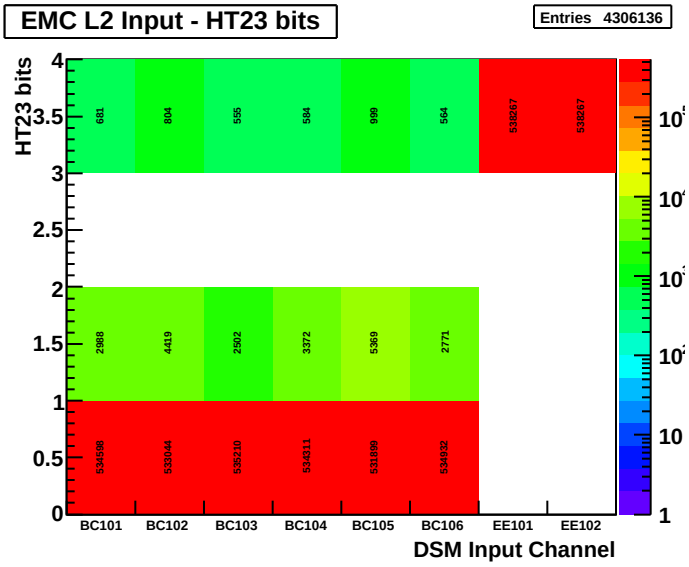

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
DSM Input Channel

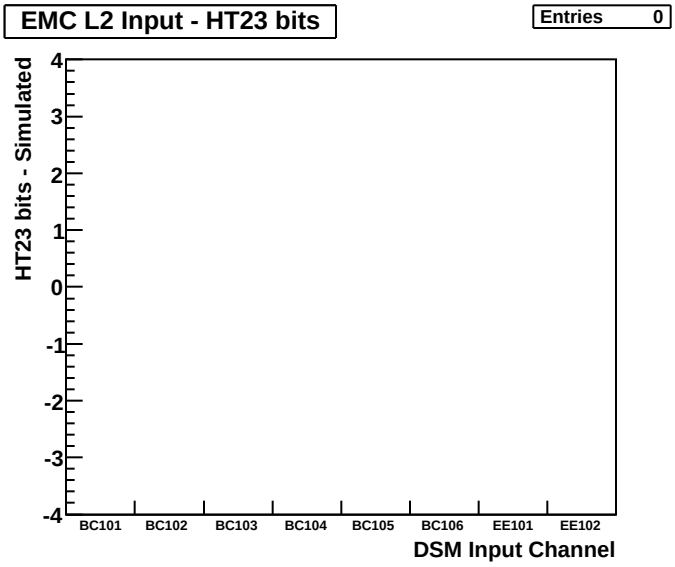

EMC L2 Input - Partial JP Sum
Entries 4306136
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

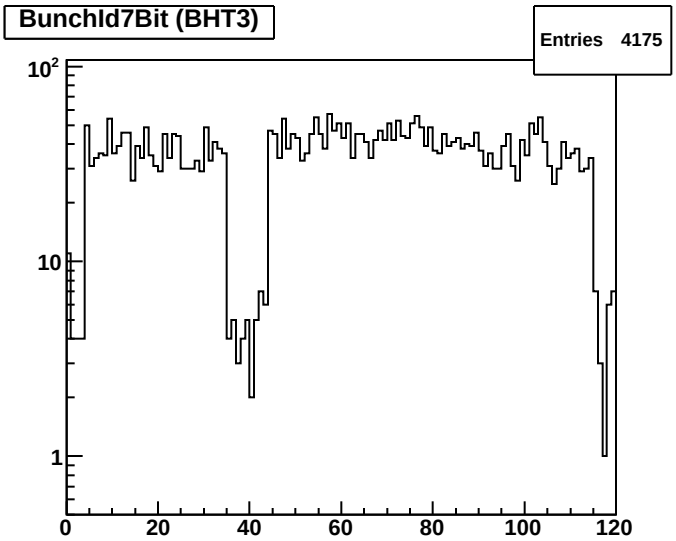

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

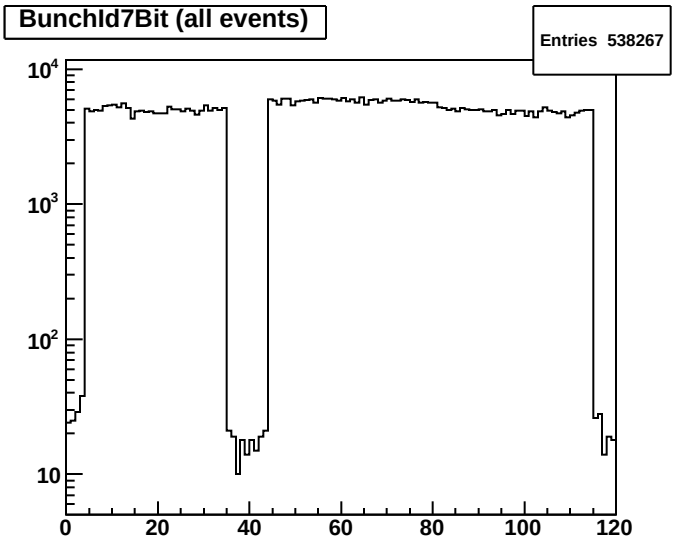

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4306136
HT01 bits/Partial JP ID
8846 11448 7614 9396 14576 8149
23365 24565 22614 23870 28416 22358 538267 538267
500056 502254 508039 505001 495275 507760
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

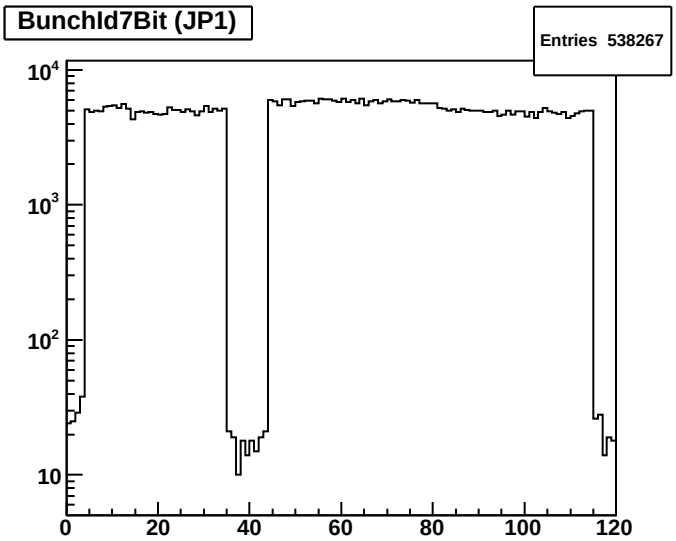

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

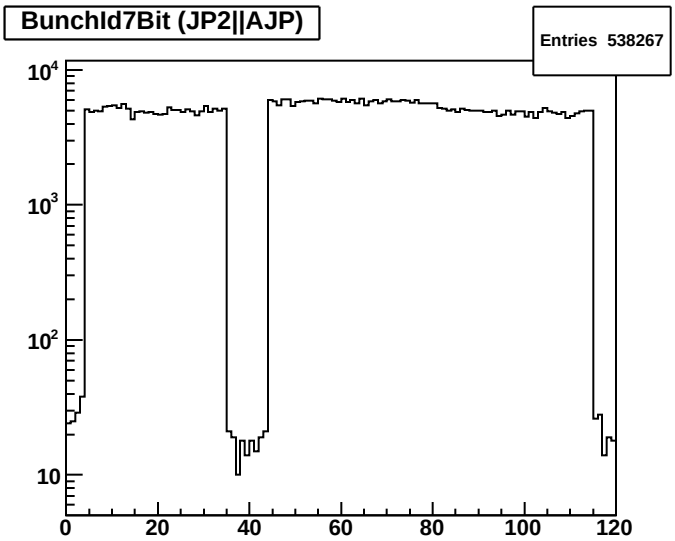

EMC L2 Input - HT23 bits
Entries 4306136
HT23 bits
681 804 555 584 999 564 538267 538267
2988 4419 2902 3372 5369 2771
534598 533044 535210 534311 531899 534932
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

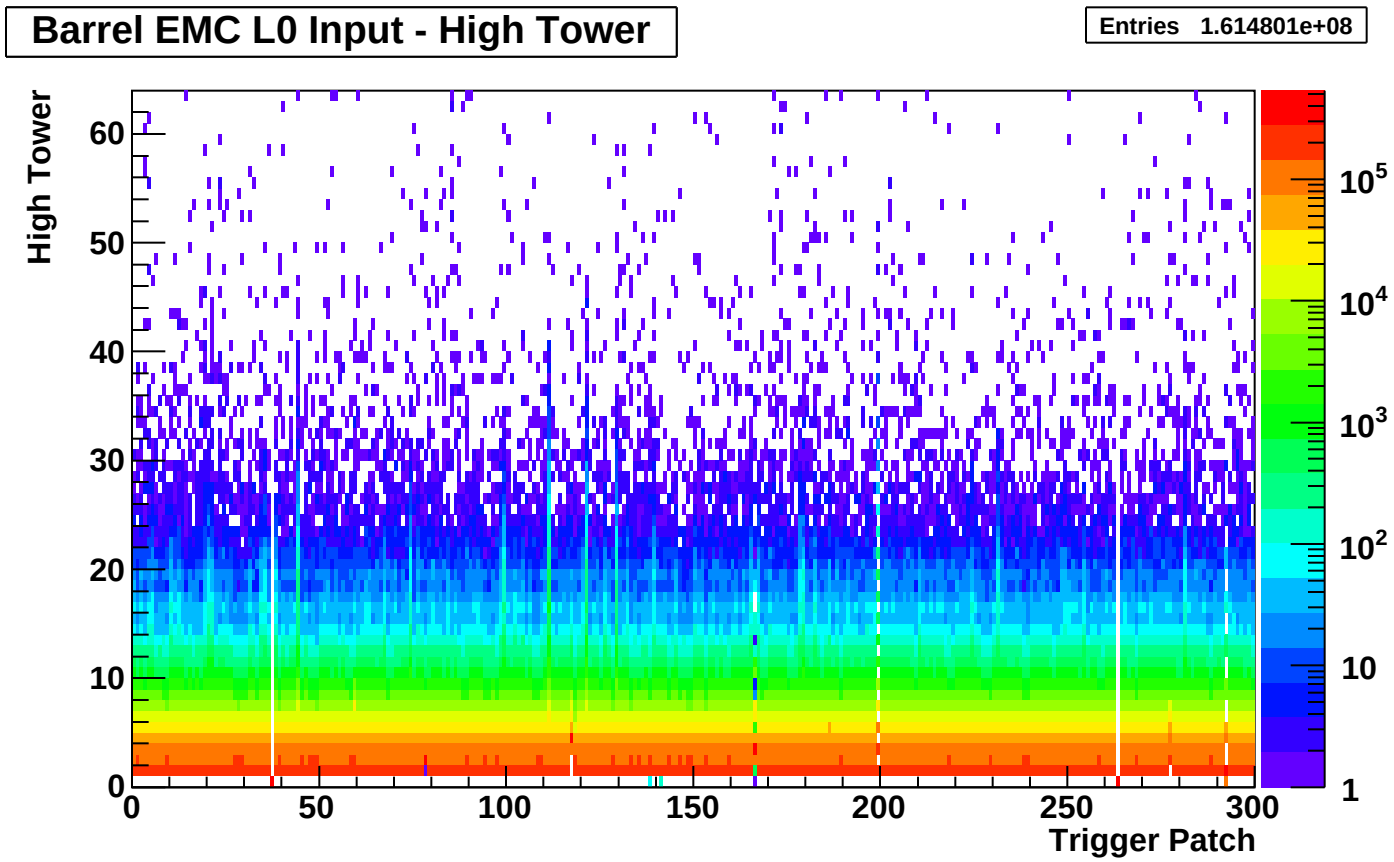

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

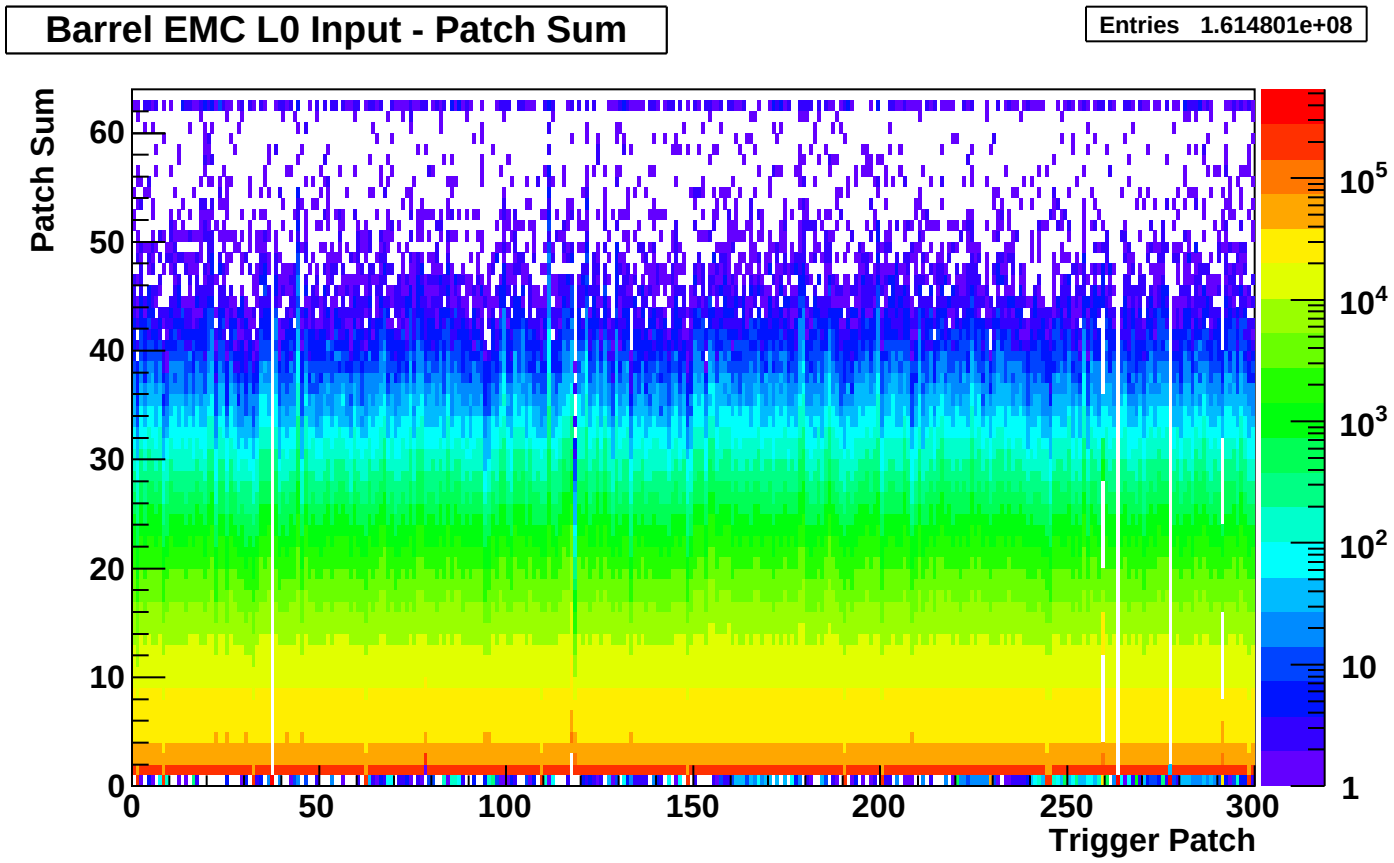

BunchId7Bit (BHT3)
Entries 4175
10^2
10
1
0
20
40
60
80
100
120

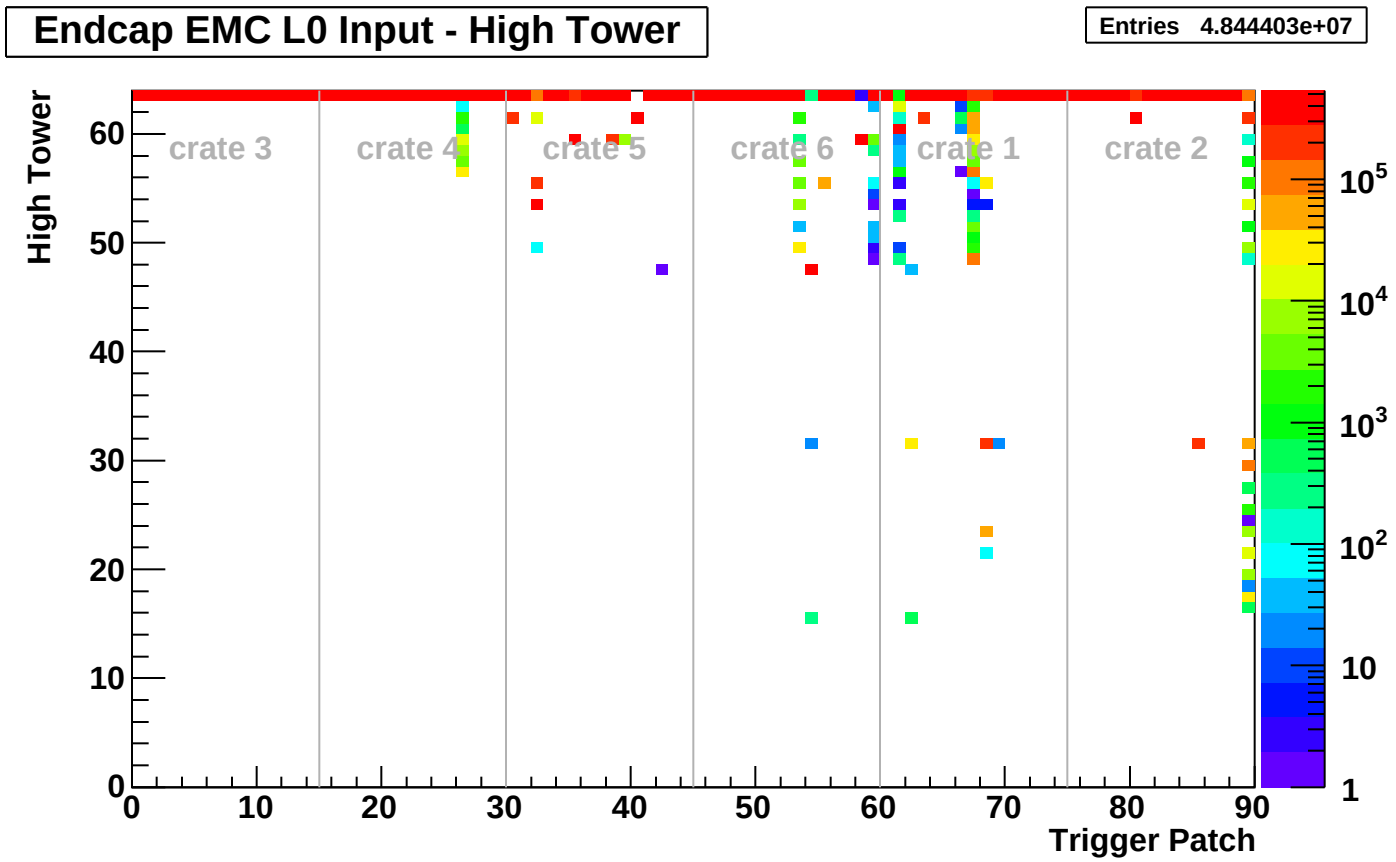

BunchId7Bit (all events)
Entries 538267
10^4
10^3
10^2
10
0
20
40
60
80
100
120

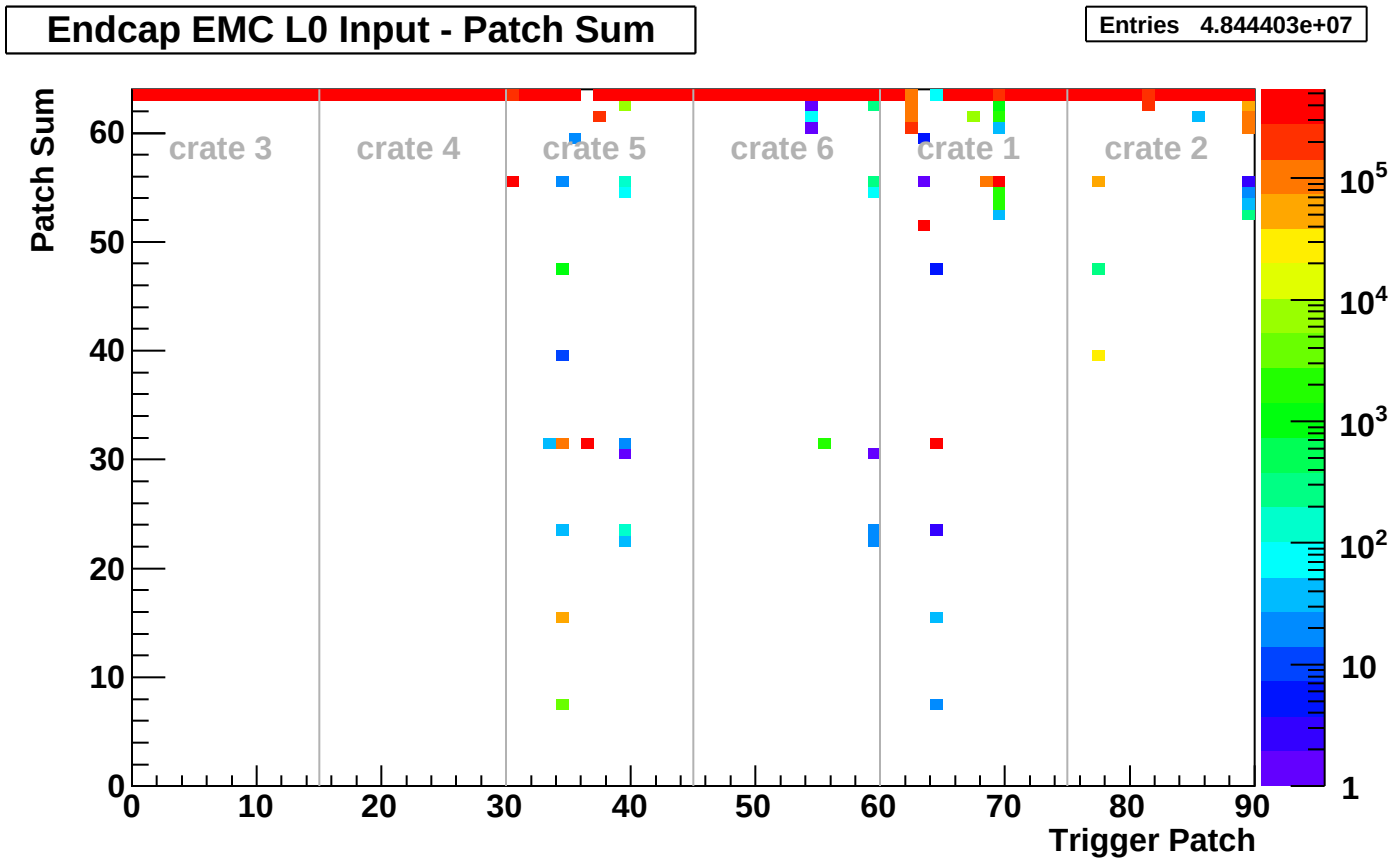

BunchId7Bit (JP1)
Entries 538267
10^4
10^3
10^2
10
0
20
40
60
80
100
120

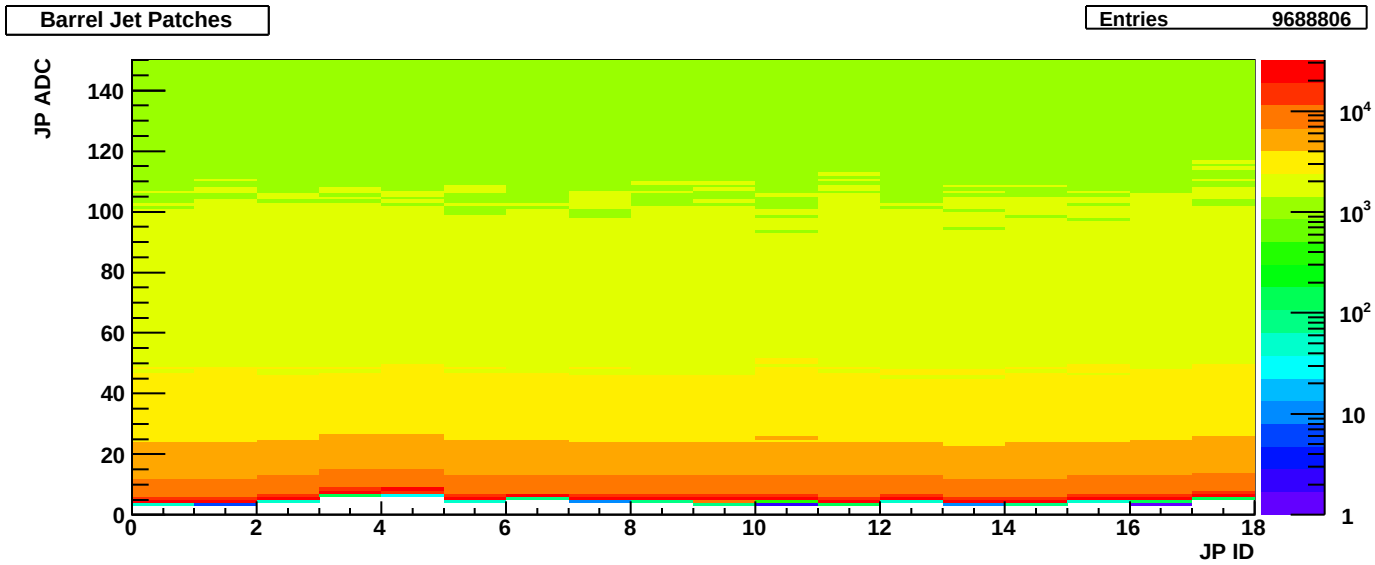

BunchId7Bit (JP2||AJP)
Entries 538267
10^4
10^3
10^2
10
0
20
40
60
80
100
120

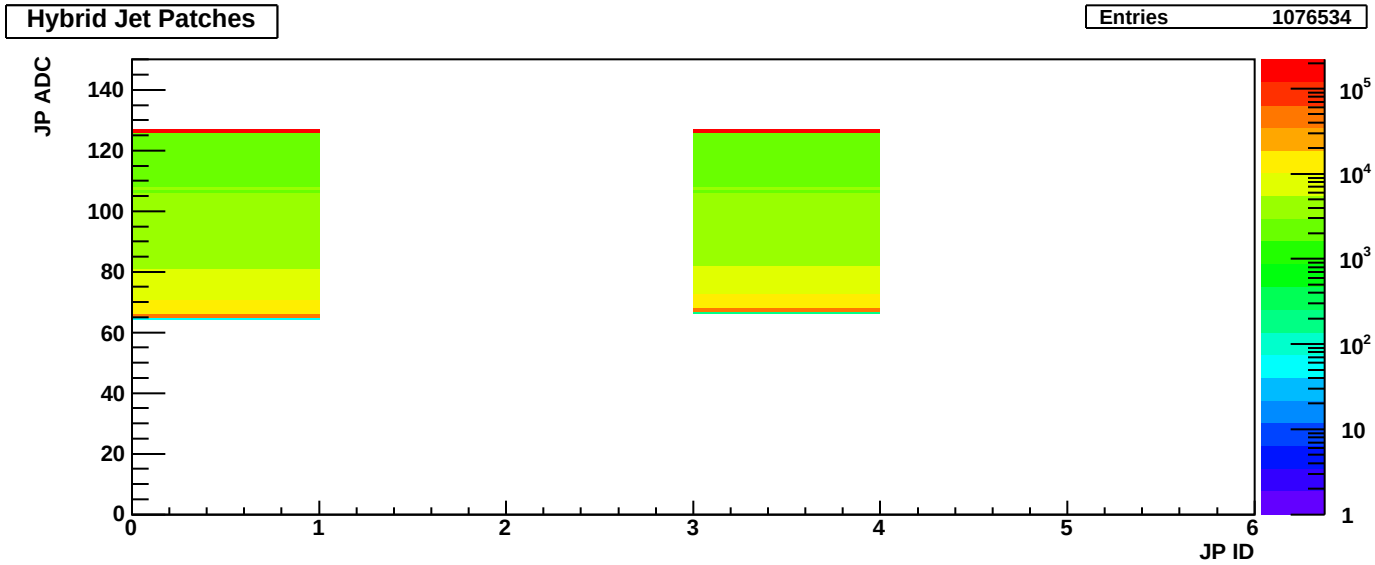

Barrel EMC L0 Input - High Tower
Entries 1.614801e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

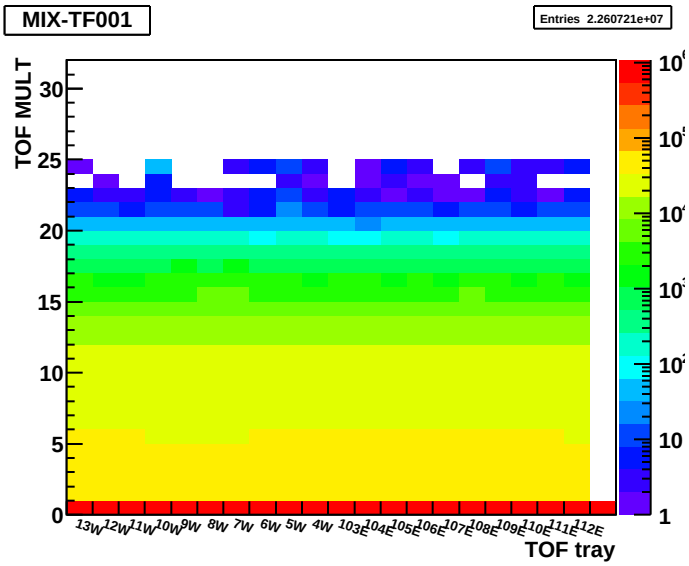

Barrel EMC L0 Input - Patch Sum
Entries 1.614801e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

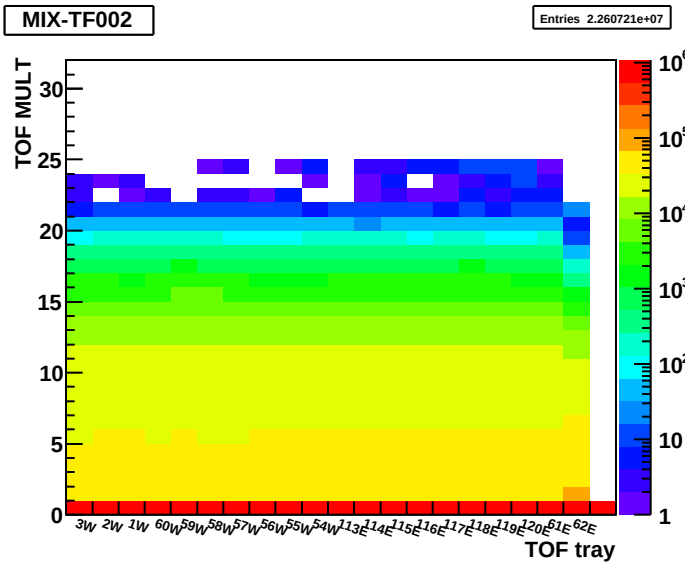

Endcap EMC L0 Input - High Tower
Entries 4.844403e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

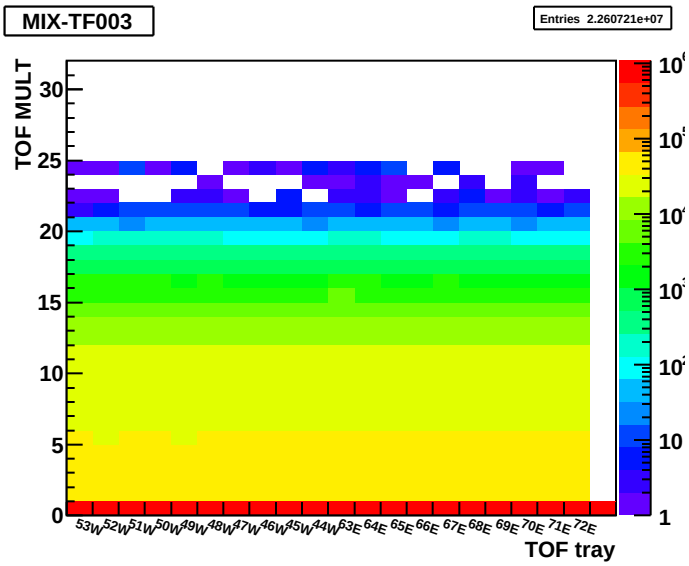

Endcap EMC L0 Input - Patch Sum
Entries 4.844403e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

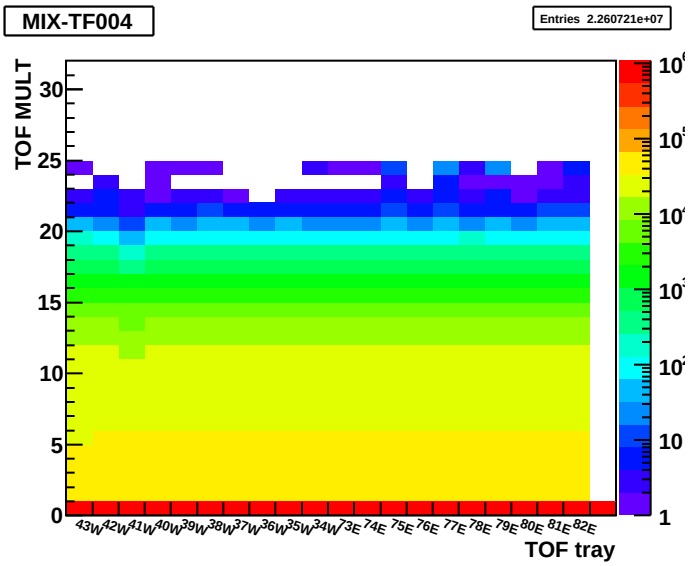

Barrel Jet Patches
Entries 9688806
JP ADC
JP ID

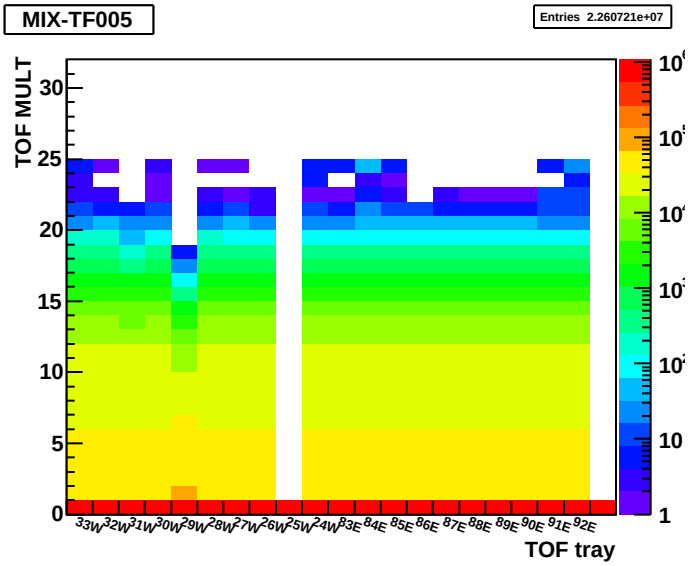

Hybrid Jet Patches
Entries 1076534
JP ADC
JP ID

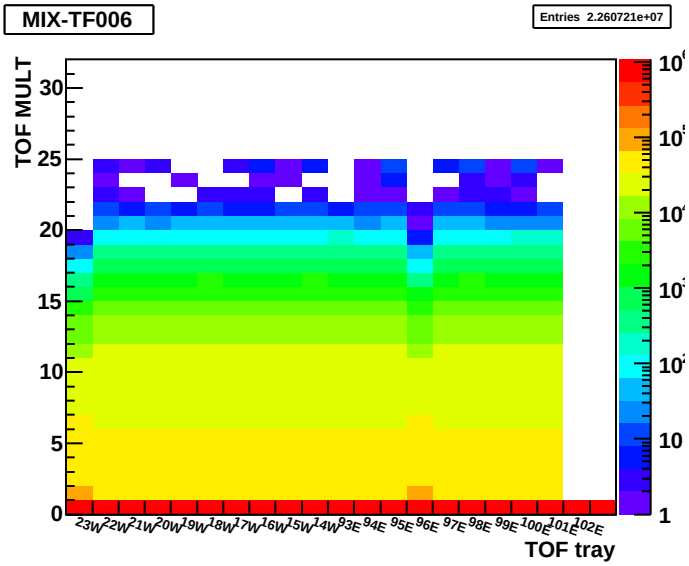

MIX-TF001
Entries 2.260721e+07
TOF MULT
TOF tray

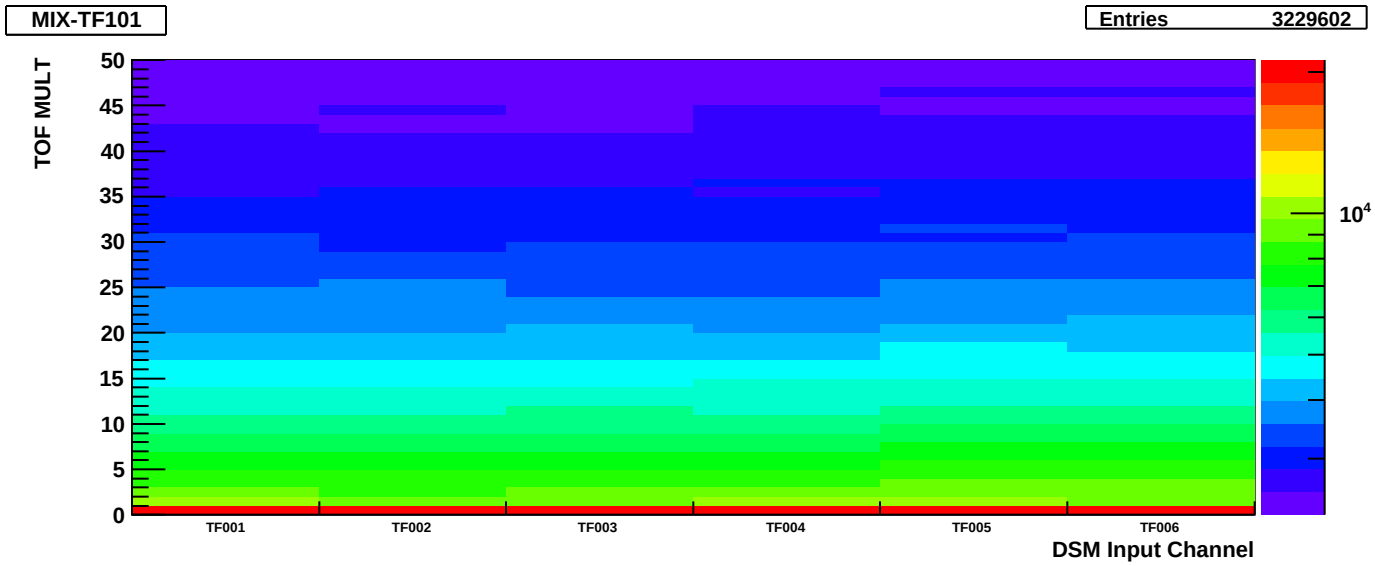

MIX-TF002
Entries 2.260721e+07
TOF MULT
TOF tray

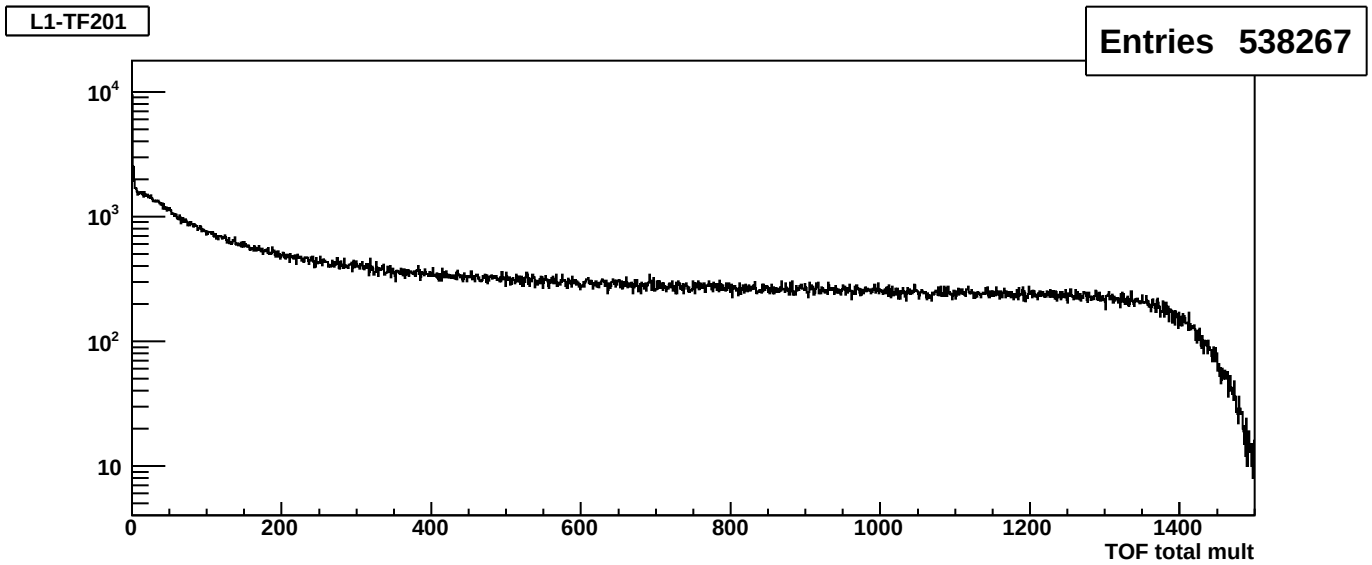

MIX-TF003
Entries 2.260721e+07
TOF MULT
TOF tray

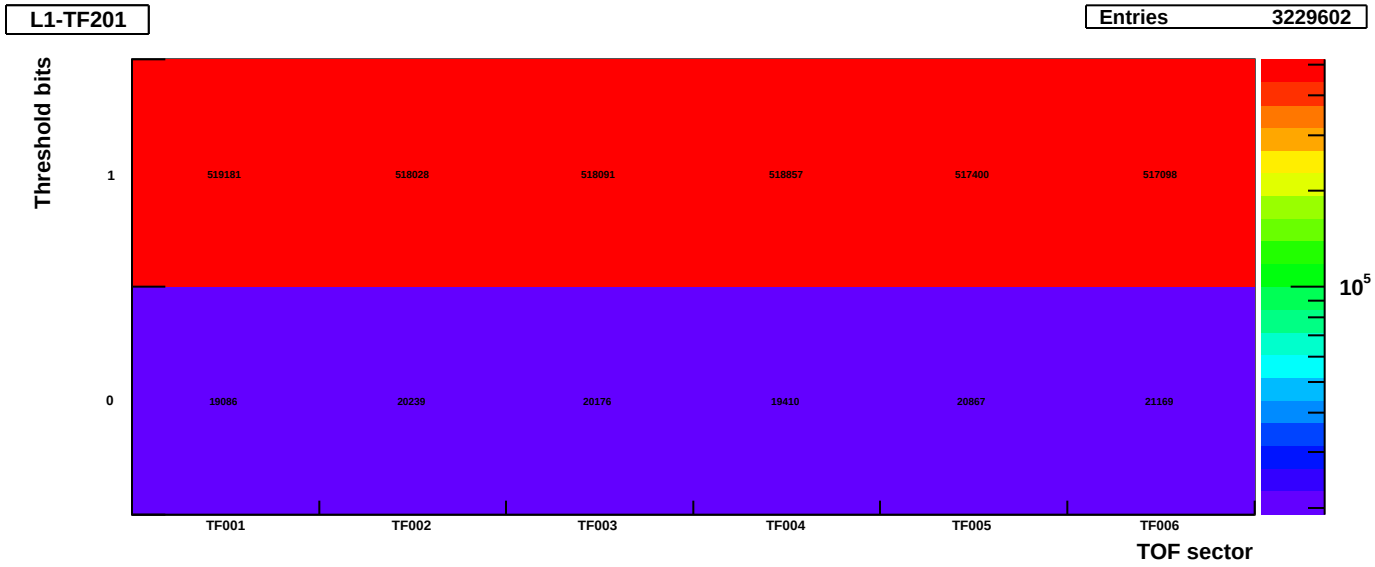

MIX-TF004
Entries 2.260721e+07
TOF MULT
TOF tray

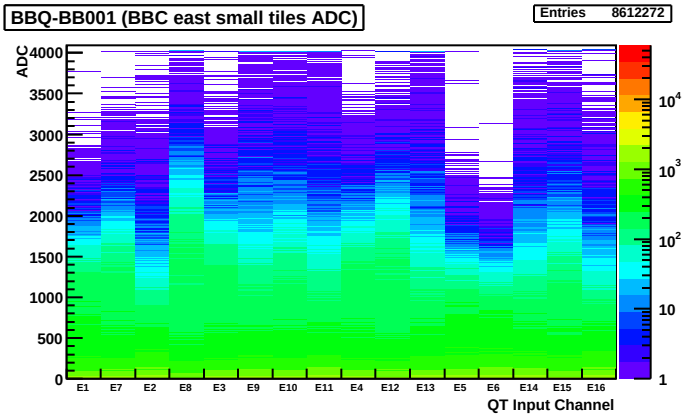

MIX-TF005
Entries 2.260721e+07
TOF MULT
TOF tray

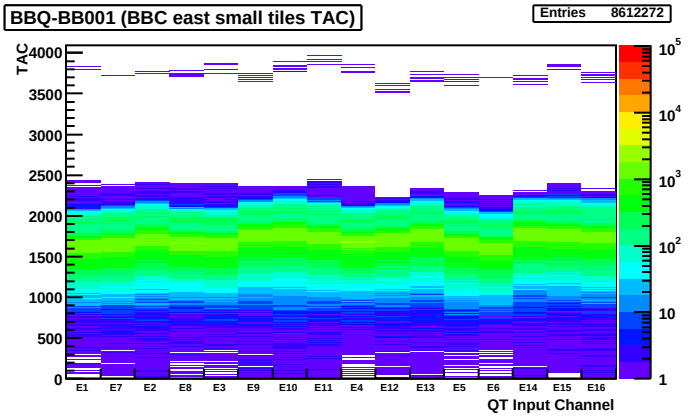

MIX-TF006
Entries 2.260721e+07
TOF MULT
TOF tray

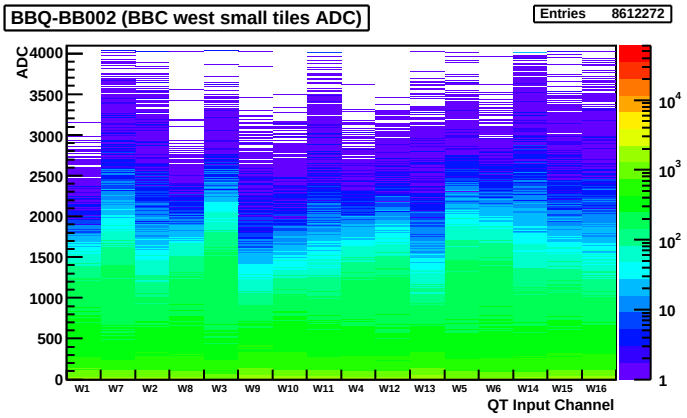

MIX-TF101
Entries 3229602
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

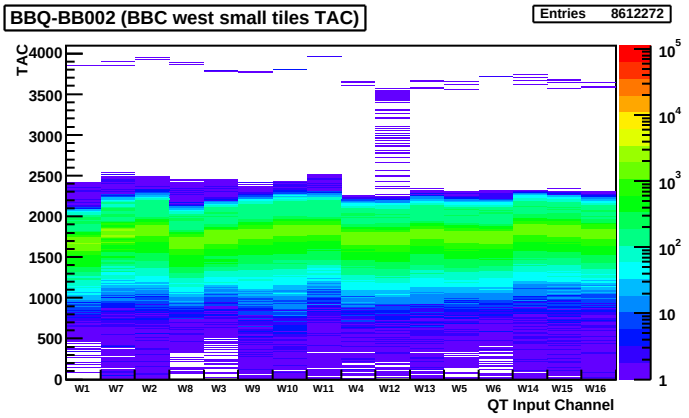

L1-TF201
Entries 538267
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

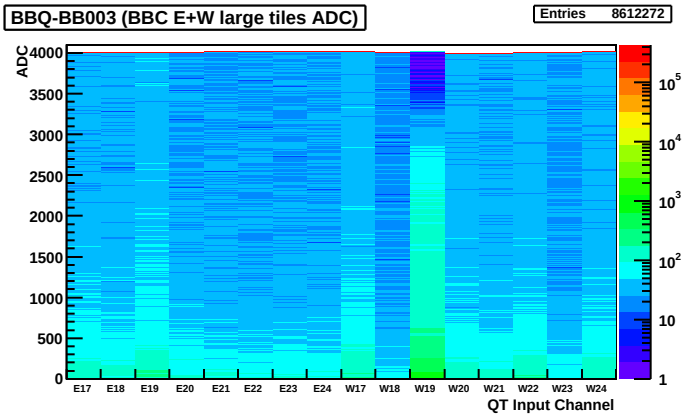

L1-TF201
Entries 3229602
Threshold bits
1
0
519181
518028
518091
518857
517400
517098
19086
20239
20176
19410
20867
21169
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

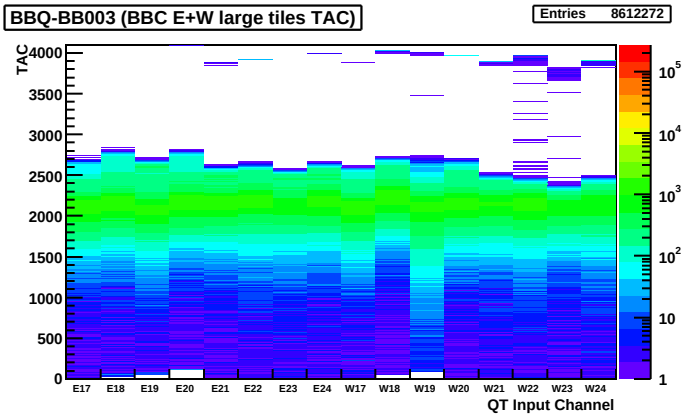

BBQ-BB001 (BBC east small tiles ADC)
Entries 8612272
ADC
QT Input Channel

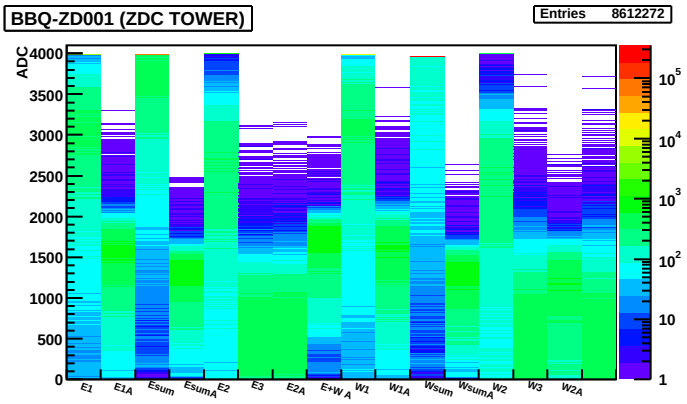

BBQ-BB001 (BBC east small tiles TAC)
Entries 8612272
TAC
QT Input Channel

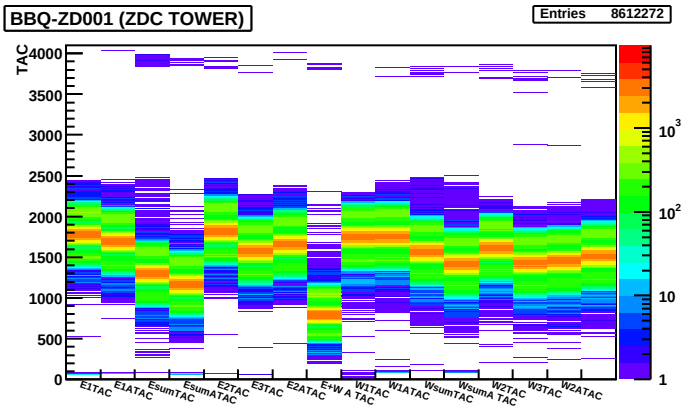

BBQ-BB002 (BBC west small tiles ADC)
Entries 8612272
ADC
QT Input Channel

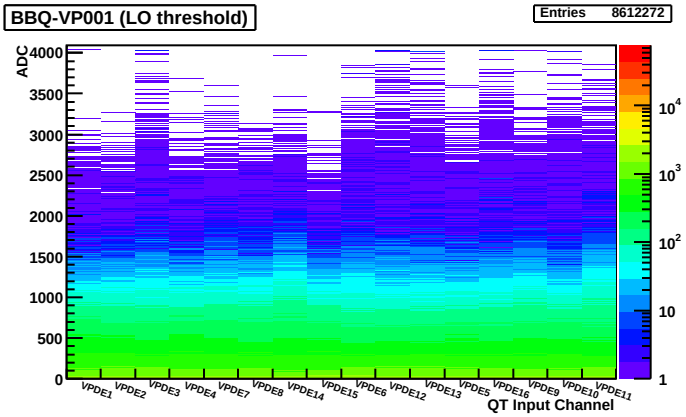

BBQ-BB002 (BBC west small tiles TAC)
Entries 8612272
TAC
QT Input Channel

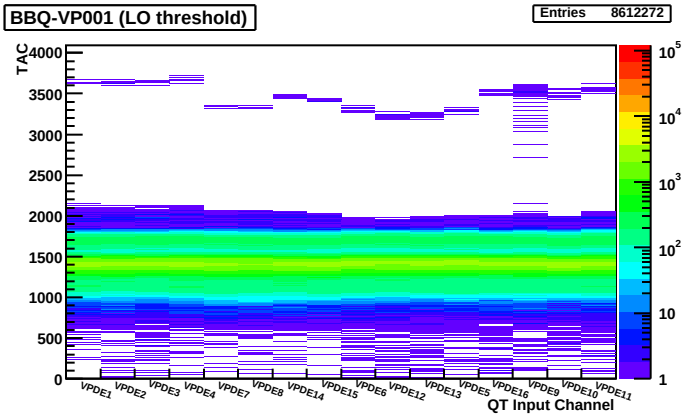

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8612272
ADC
QT Input Channel

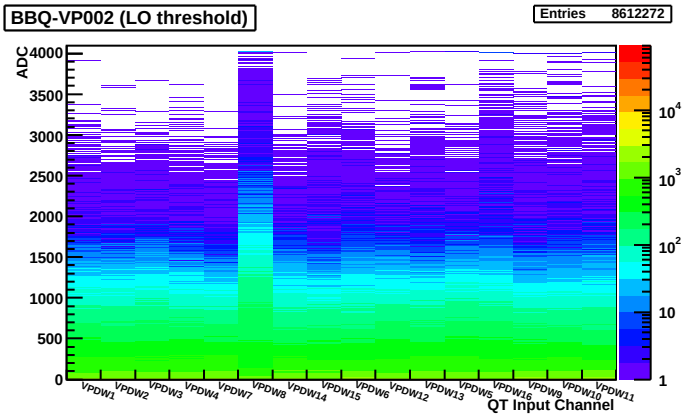

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8612272
TAC
QT Input Channel

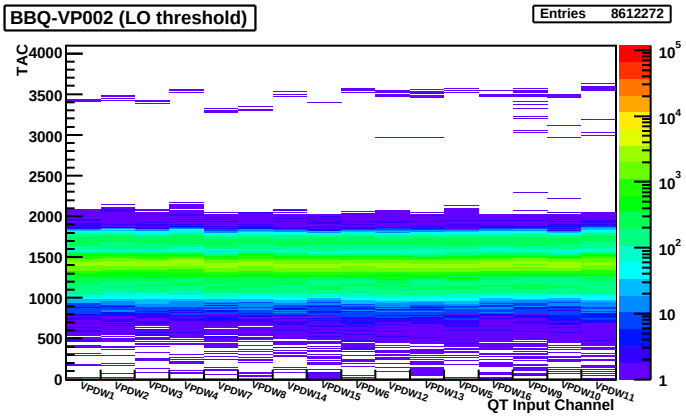

BBQ-ZD001 (ZDC TOWER)
Entries 8612272
ADC

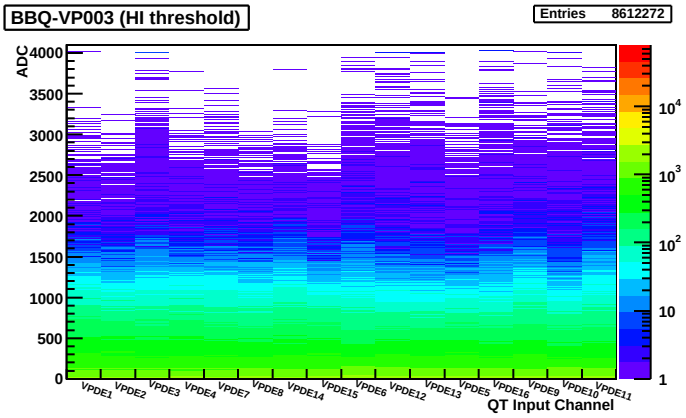

BBQ-ZD001 (ZDC TOWER)
Entries 8612272
TAC

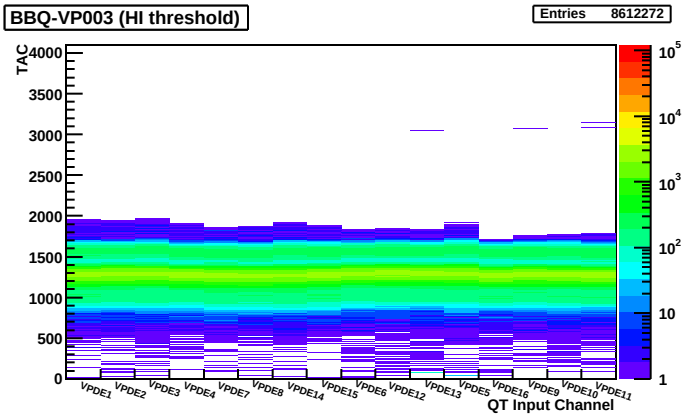

BBQ-VP001 (LO threshold)
Entries 8612272
ADC
QT Input Channel

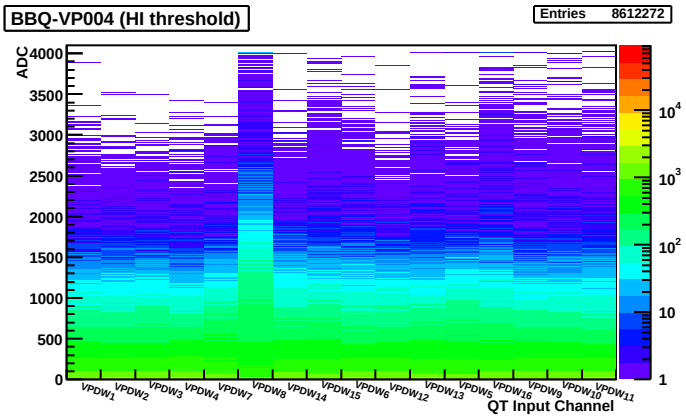

BBQ-VP001 (LO threshold)
Entries 8612272
TAC
QT Input Channel

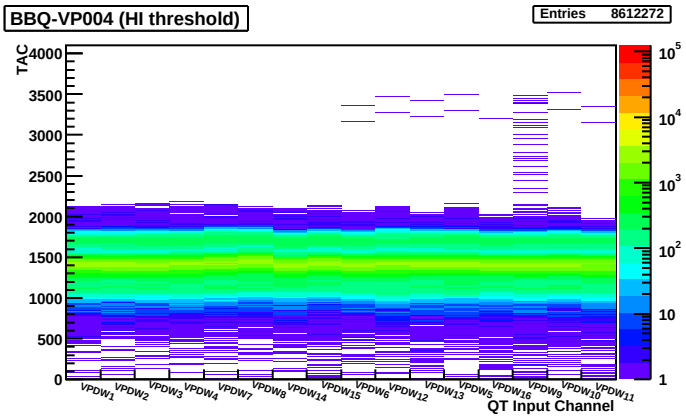

BBQ-VP002 (LO threshold)
Entries 8612272
ADC
QT Input Channel

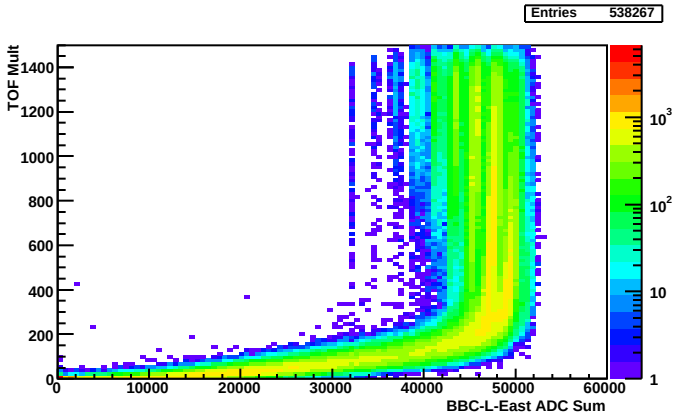

BBQ-VP002 (LO threshold)
Entries 8612272
TAC
QT Input Channel

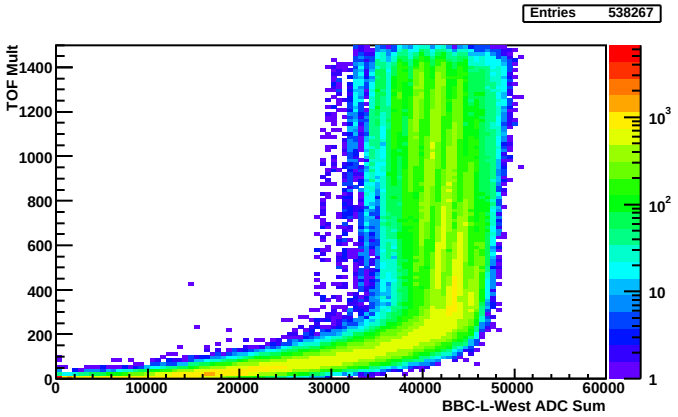

BBQ-VP003 (HI threshold)
Entries 8612272
ADC
QT Input Channel

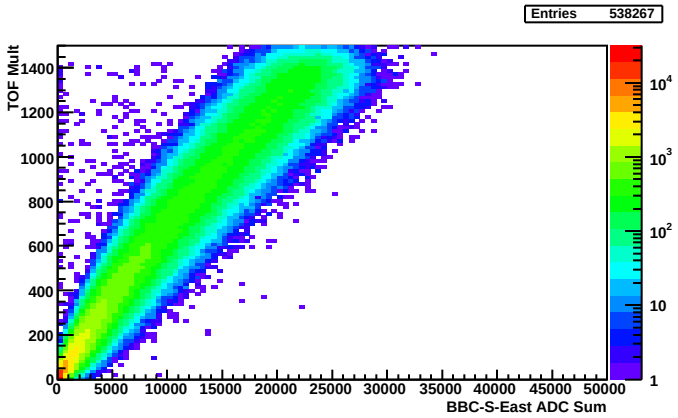

BBQ-VP003 (HI threshold)
Entries 8612272
TAC
QT Input Channel

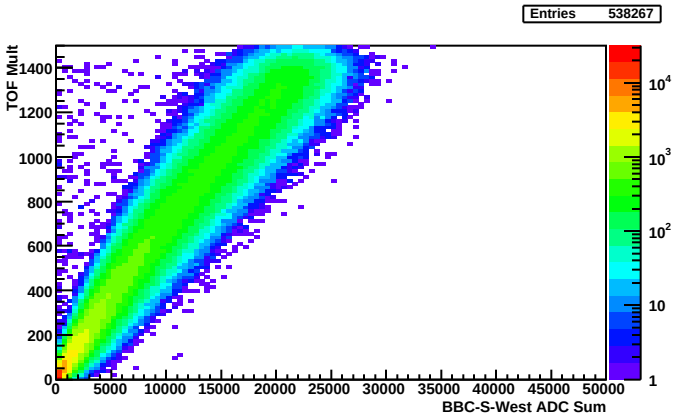

BBQ-VP004 (HI threshold)
Entries 8612272
ADC
QT Input Channel

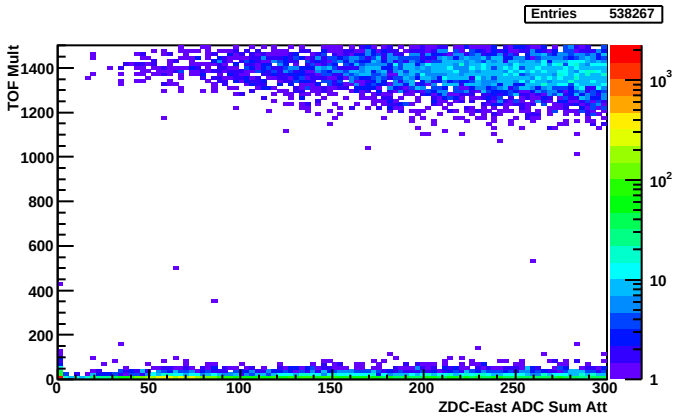

BBQ-VP004 (HI threshold)
Entries 8612272
TAC
QT Input Channel

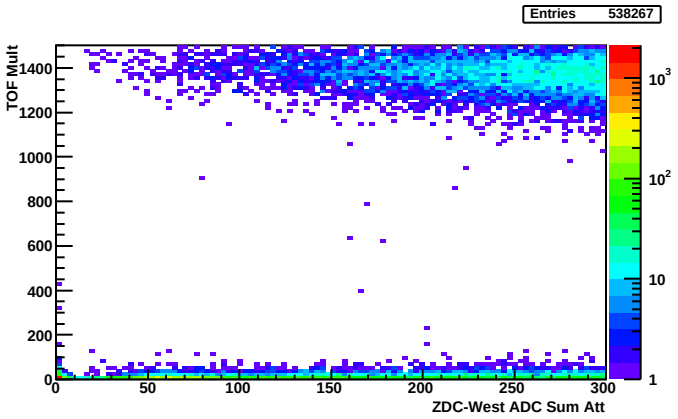

Entries 538267
TOF Mult
BBC-L-East ADC Sum

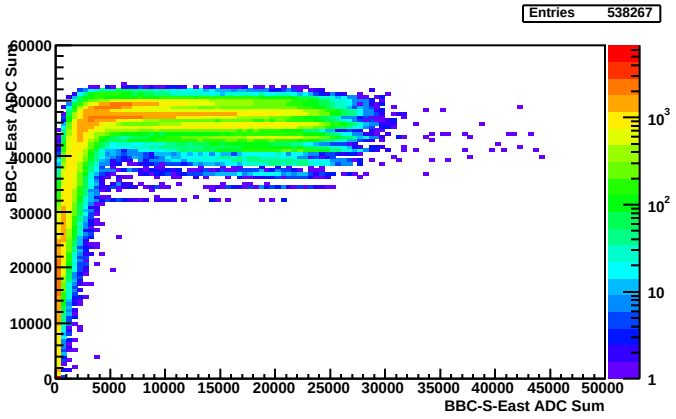

Entries 538267
TOF Mult
BBC-L-West ADC Sum

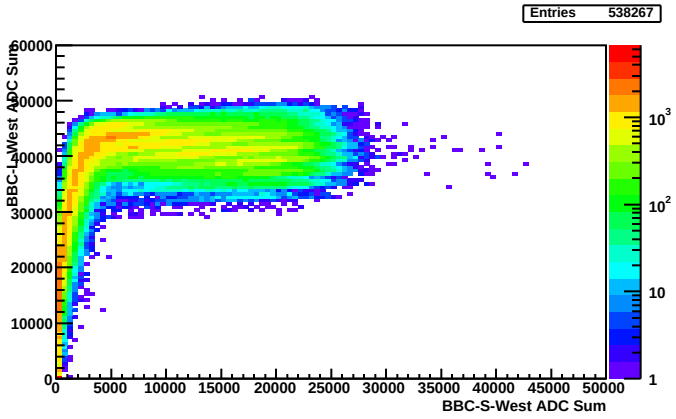

Entries 538267
TOF Mult
BBC-S-East ADC Sum

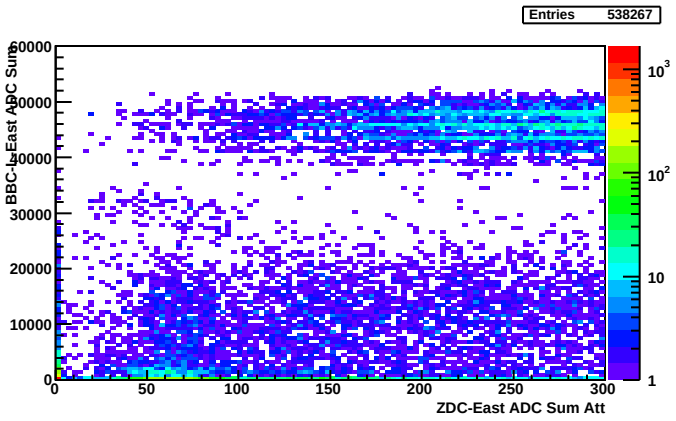

Entries 538267
TOF Mult
BBC-S-West ADC Sum

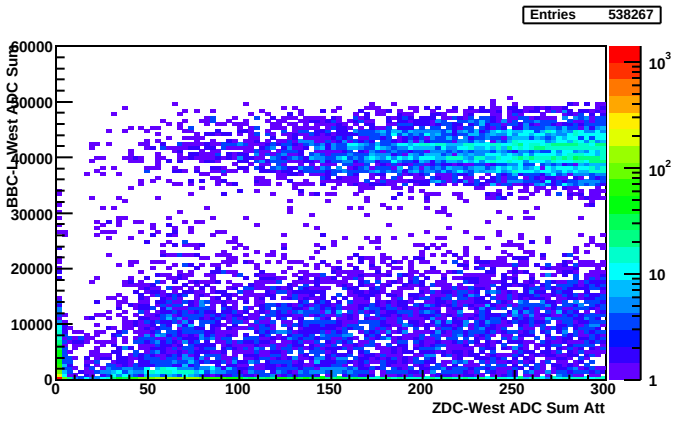

Entries 538267
TOF Mult
ZDC-East ADC Sum Att

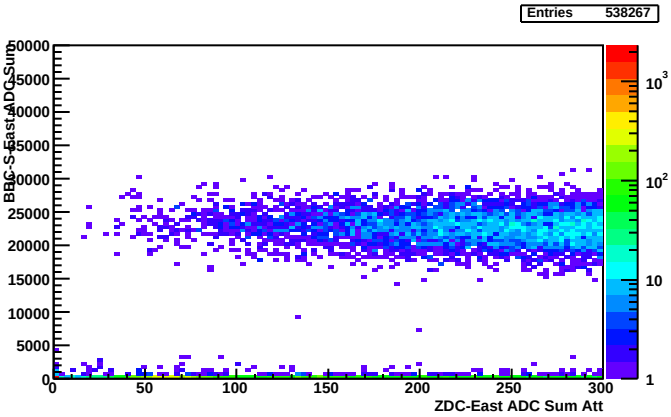

Entries 538267
TOF Mult
ZDC-West ADC Sum Att


Entries 538267
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 538267
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 538267
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 538267
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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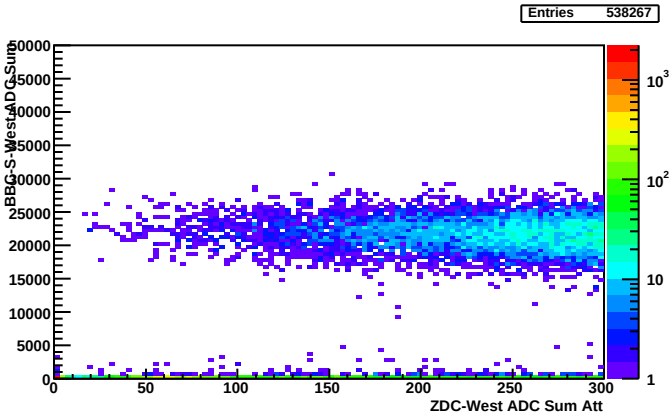
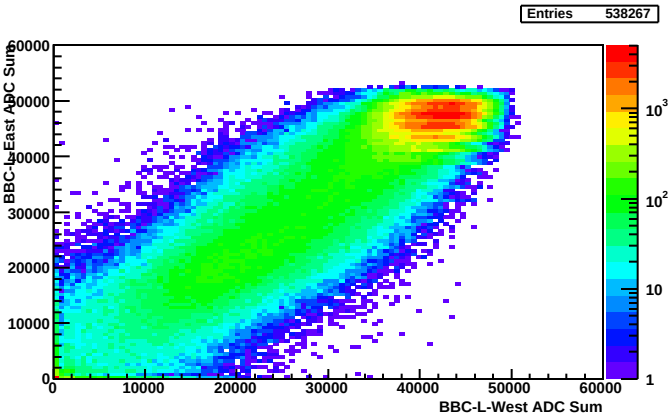
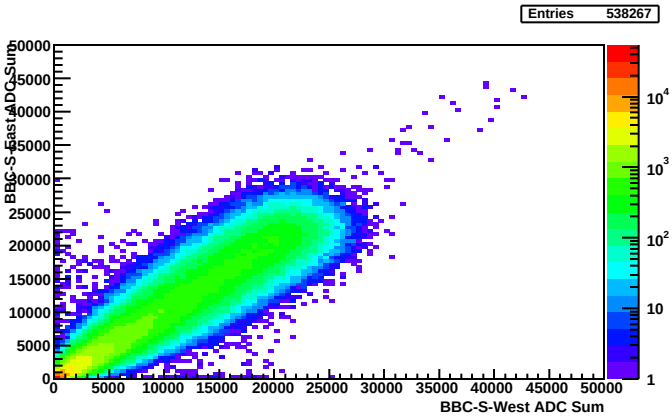
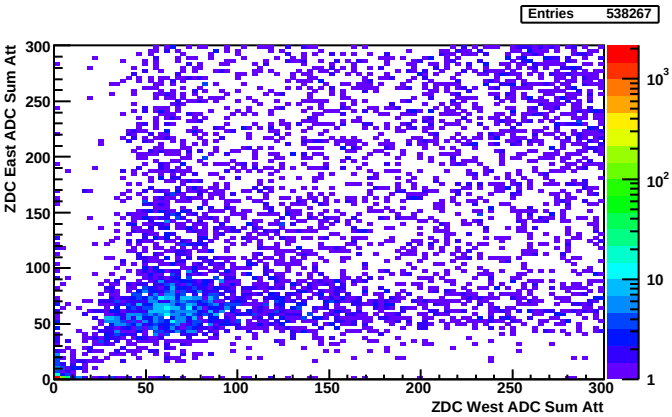
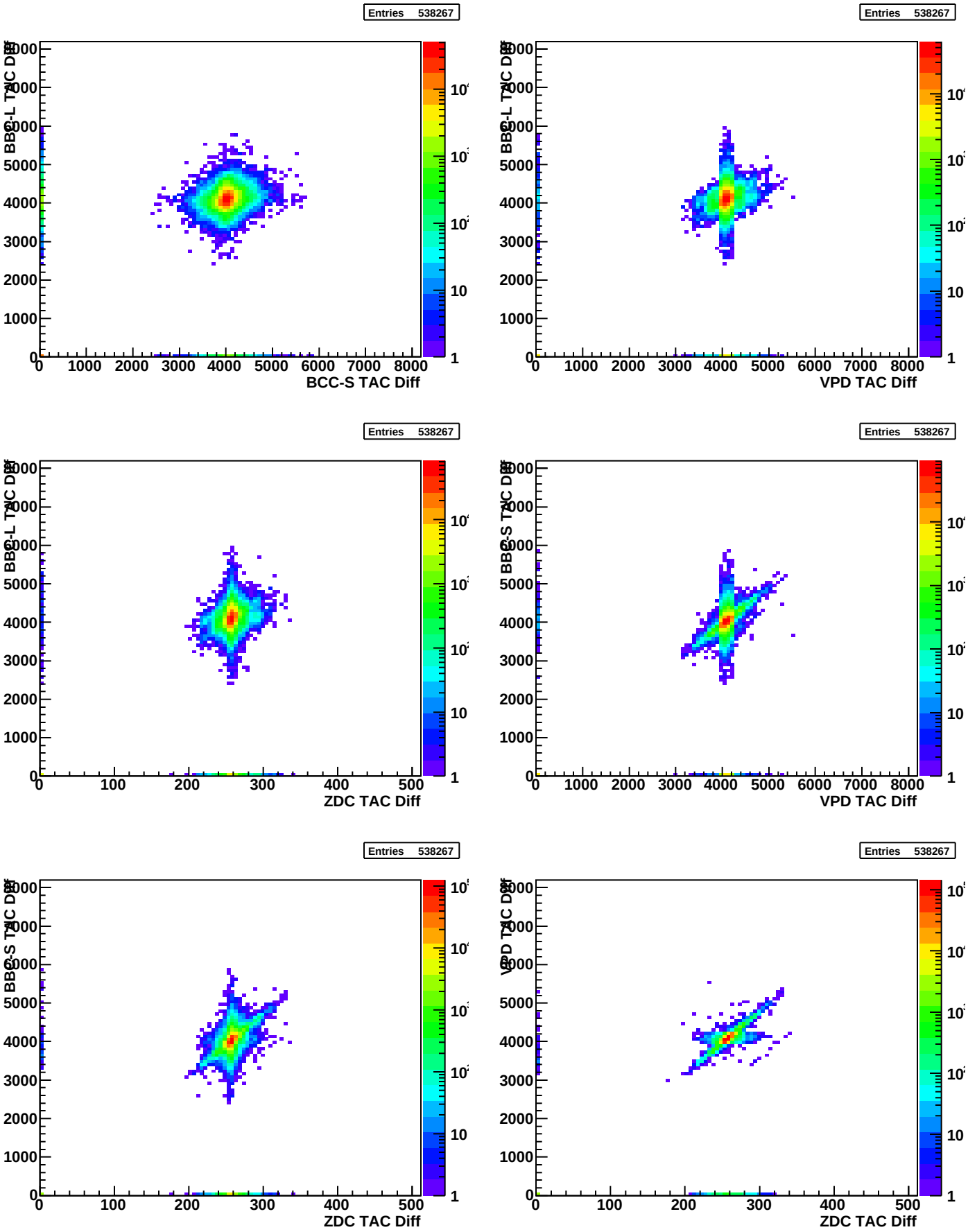
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

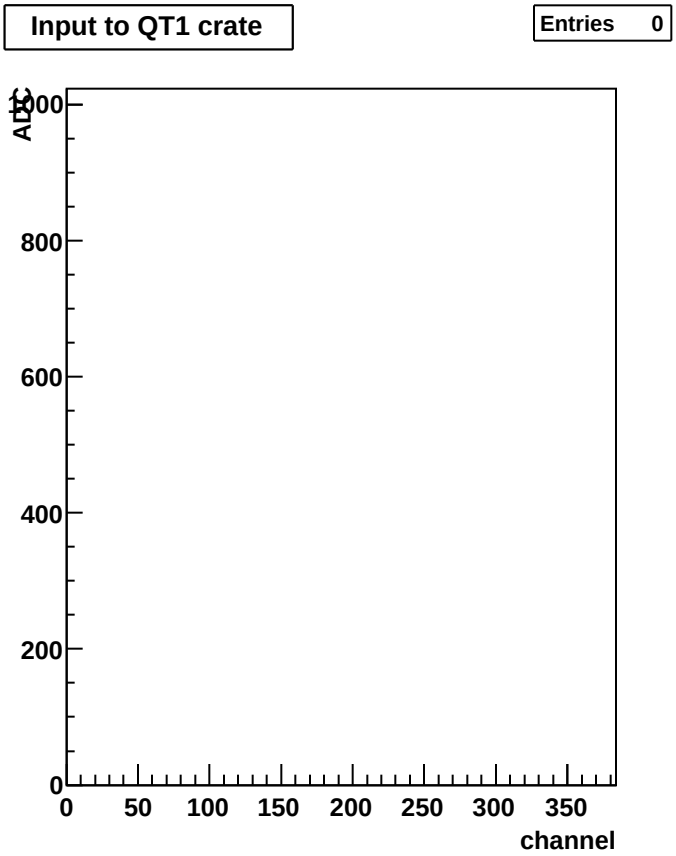

Entries 538267
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

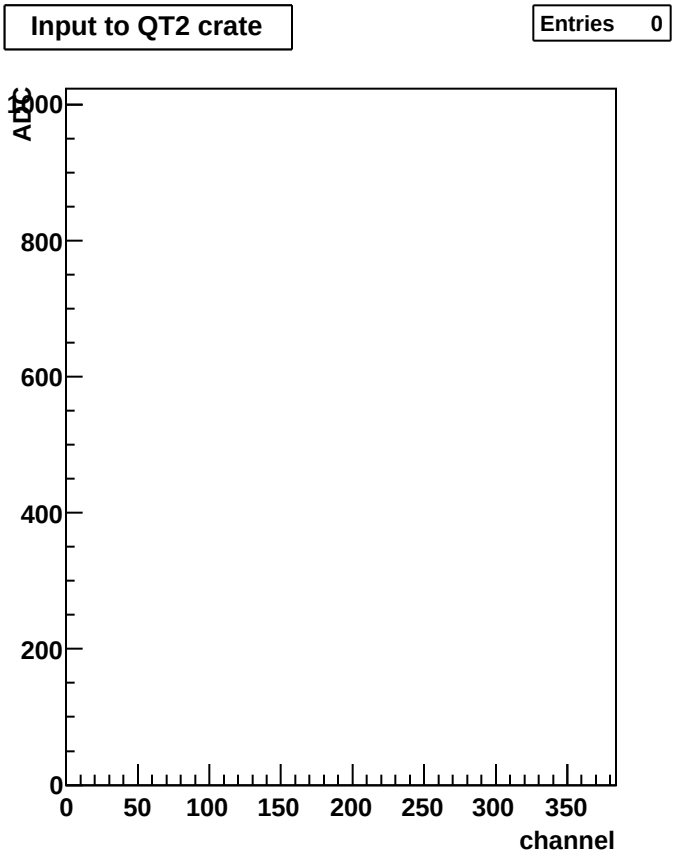

Entries 538267
BBC-L-East ADC Sum
BBC-L-West ADC Sum

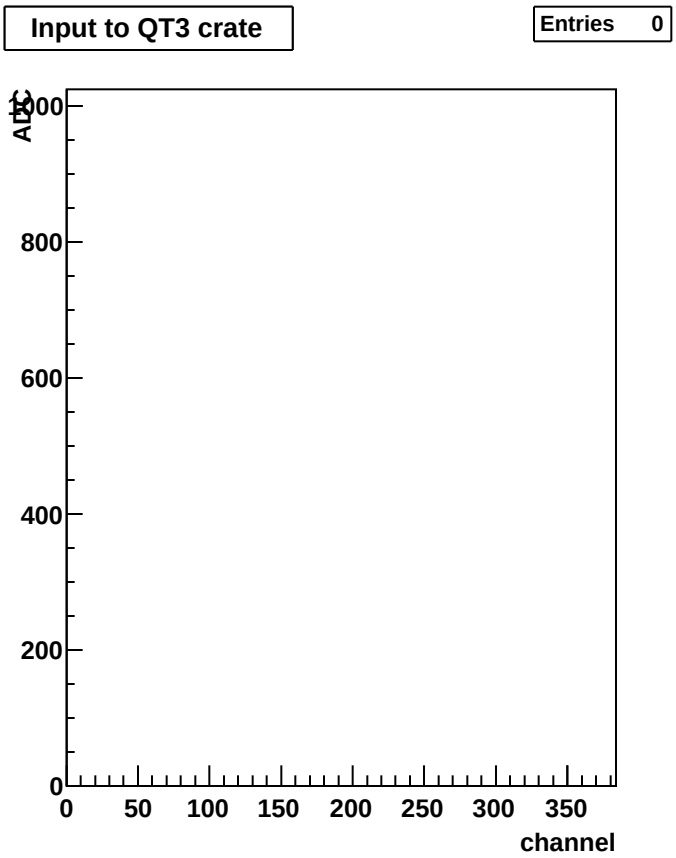

Entries 538267
BBC-S-East ADC Sum
BBC-S-West ADC Sum

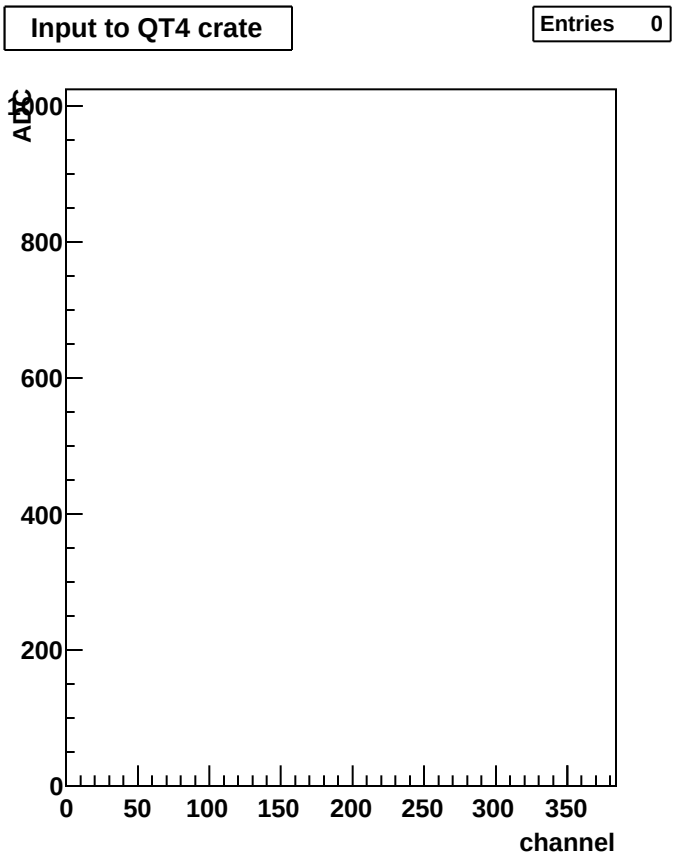

Entries 538267
ZDC East ADC Sum Att
ZDC West ADC Sum Att

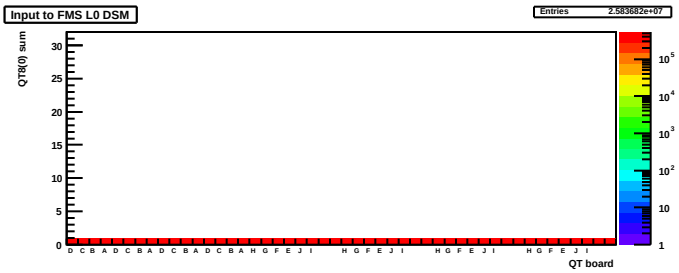

Entries 538267
BBC-L TAC Diff
BCC-S TAC Diff
Entries 538267
BBC-L TAC Diff
VPD TAC Diff
Entries 538267
BBC-L TAC Diff
ZDC TAC Diff
Entries 538267
BBC-S TAC Diff
VPD TAC Diff
Entries 538267
BBC-S TAC Diff
ZDC TAC Diff
Entries 538267
VPD TAC Diff
ZDC TAC Diff

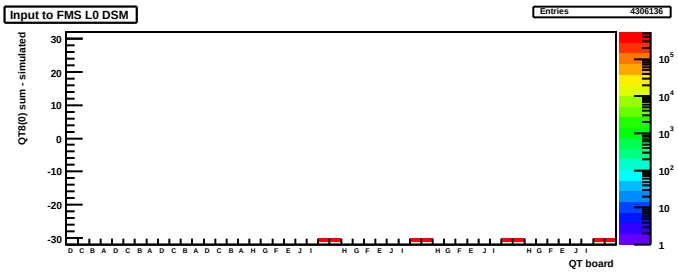

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

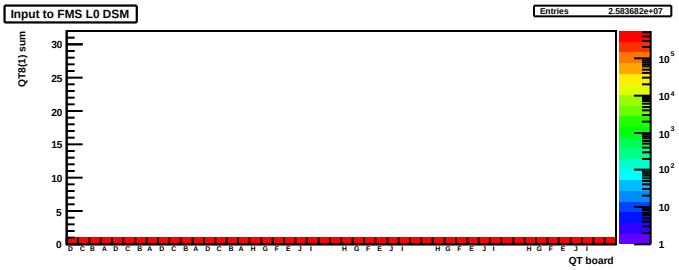

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

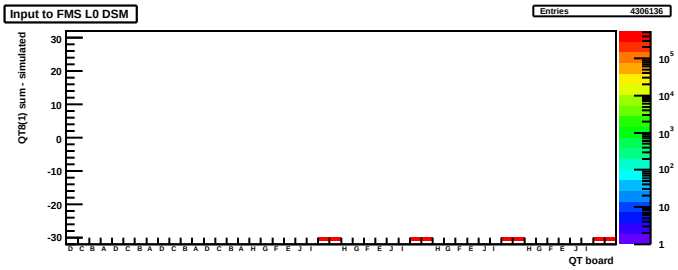

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

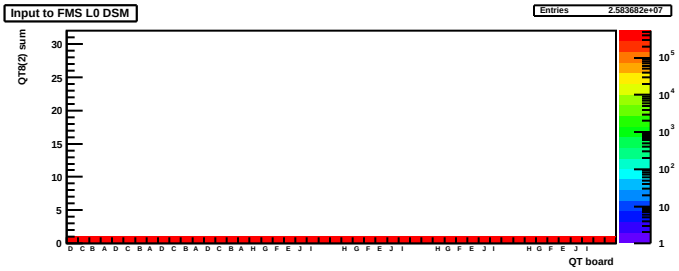

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

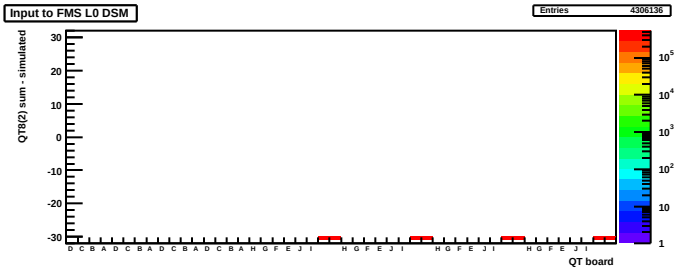

Input to FMS L0 DSM
Entries 2.583682e+07
QT8(0) sum
QT board

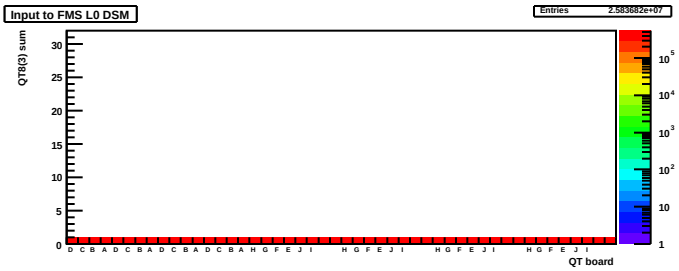

Input to FMS L0 DSM
Entries 4306136
QT8(0) sum - simulated
QT board

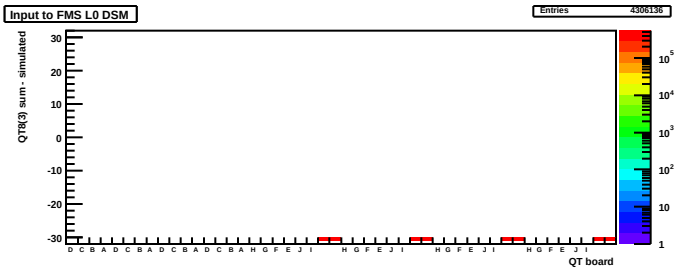

Input to FMS L0 DSM
Entries 2.583682e+07
QT8(1) sum
QT board

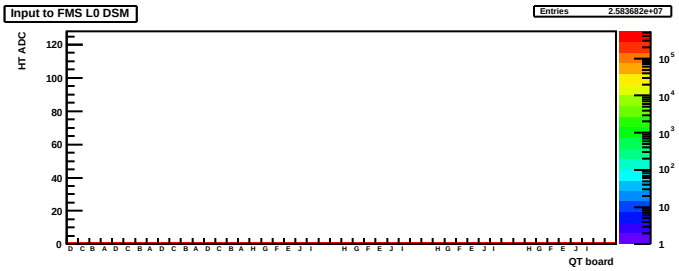

Input to FMS L0 DSM
Entries 4306136
QT8(1) sum - simulated
QT board

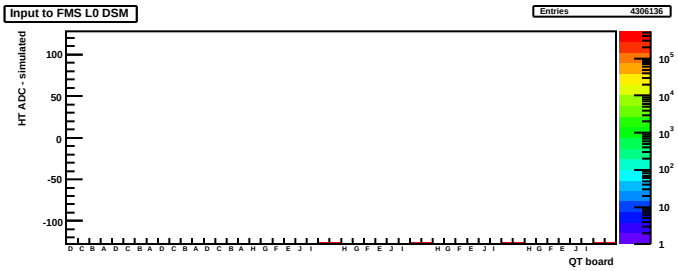

Input to FMS L0 DSM
Entries 2.583682e+07
QT8(2) sum
QT board

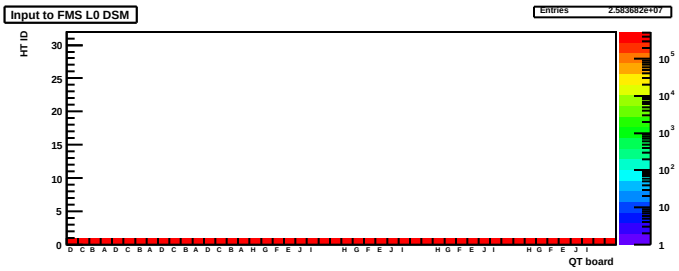

Input to FMS L0 DSM
Entries 4306136
QT8(2) sum - simulated
QT board

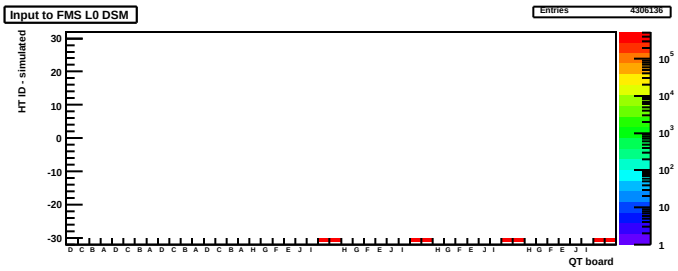

Input to FMS L0 DSM
Entries 2.583682e+07
QT8(3) sum
QT board

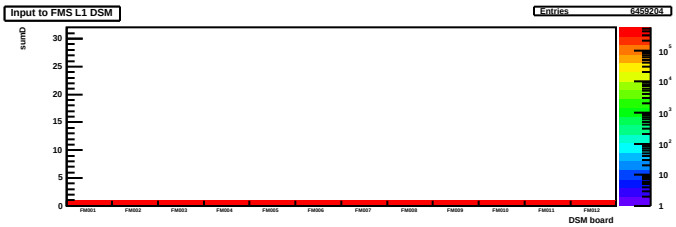

Input to FMS L0 DSM
Entries 4306136
QT8(3) sum - simulated
QT board

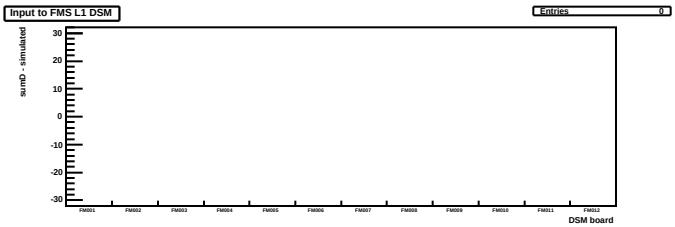

Input to FMS L0 DSM
Entries 2.583682e+07
HT ADC
QT board

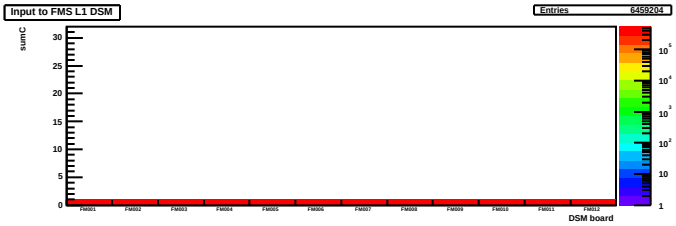

Input to FMS L0 DSM
Entries 4306136
HT ADC - simulated
QT board

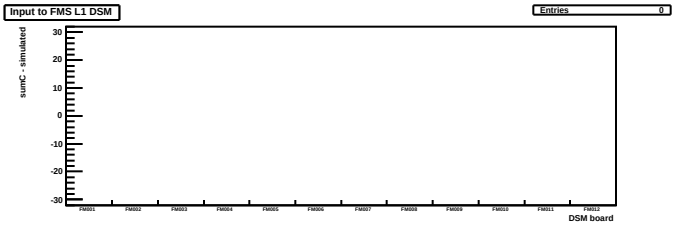

Input to FMS L0 DSM
Entries 2.583682e+07
HT ID
QT board

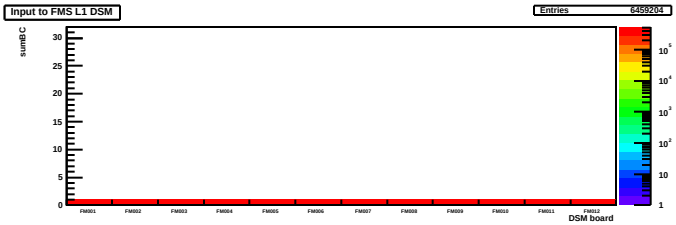

Input to FMS L0 DSM
Entries 4306136
HT ID - simulated
QT board

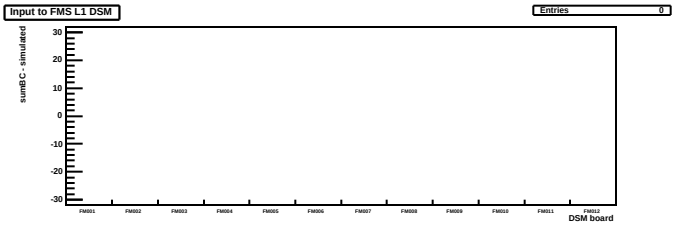

Input to FMS L1 DSM
Entries 6459204
sumD
DSM board

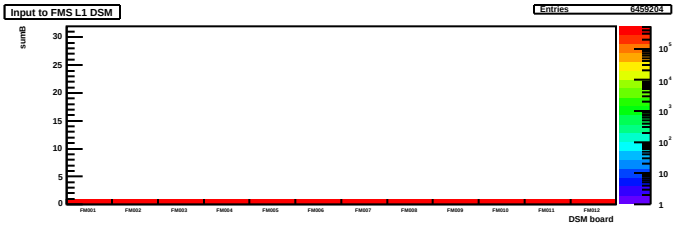

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

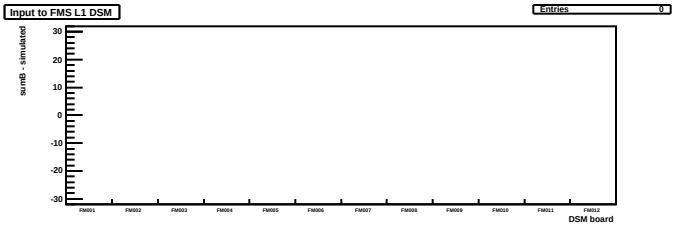

Input to FMS L1 DSM
Entries 6459204
sumC
DSM board

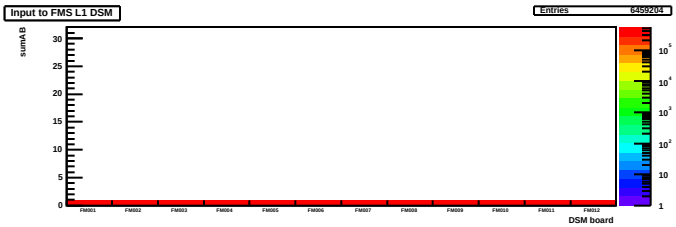

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

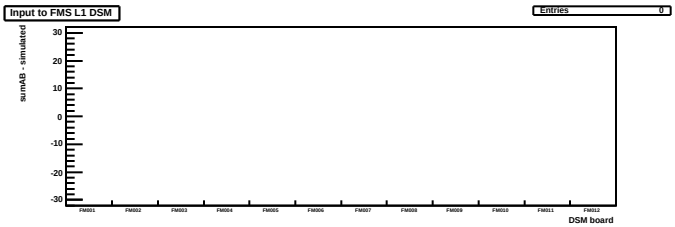

Input to FMS L1 DSM
Entries 6459204
sumBC
DSM board

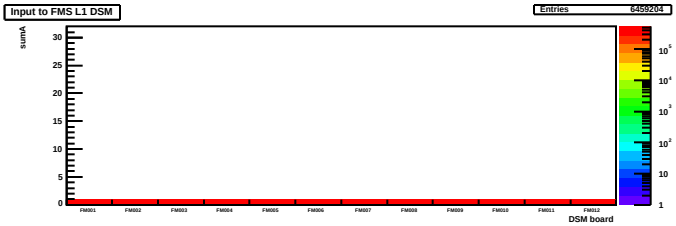

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

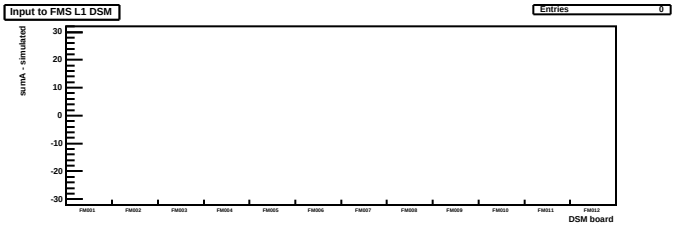

Input to FMS L1 DSM
Entries 6459204
sumB
DSM board

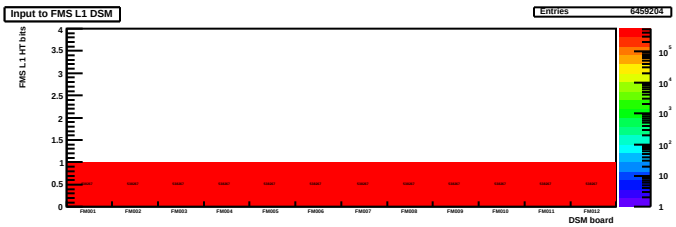

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

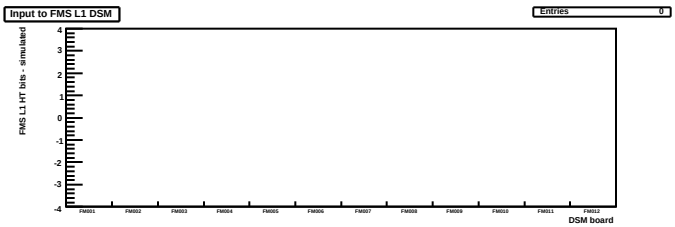

Input to FMS L1 DSM
Entries 6459204
sumAB
DSM board

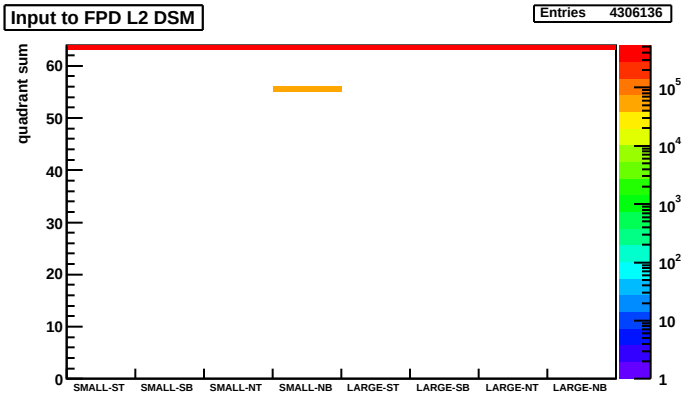

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

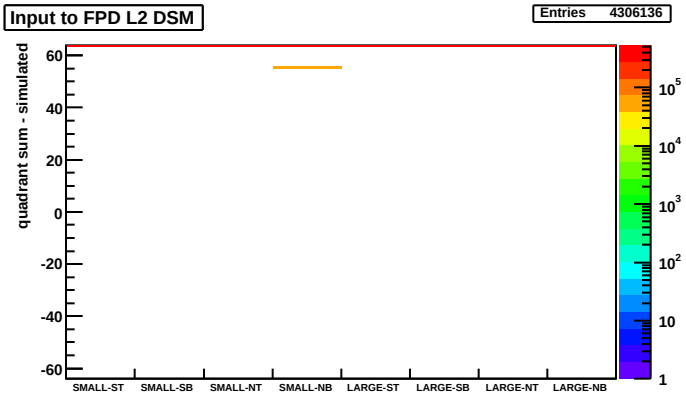

Input to FMS L1 DSM
Entries 6459204
sumA
DSM board

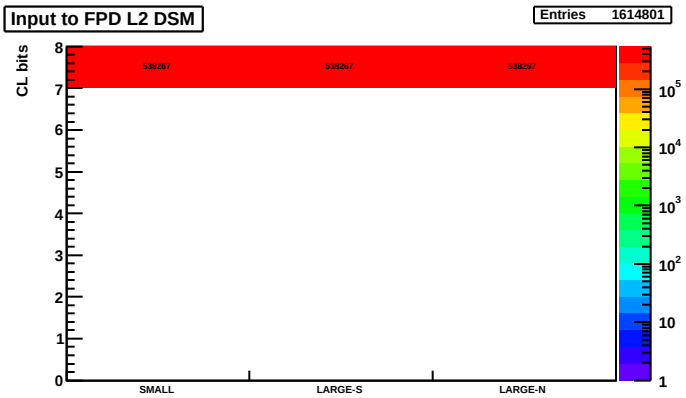

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

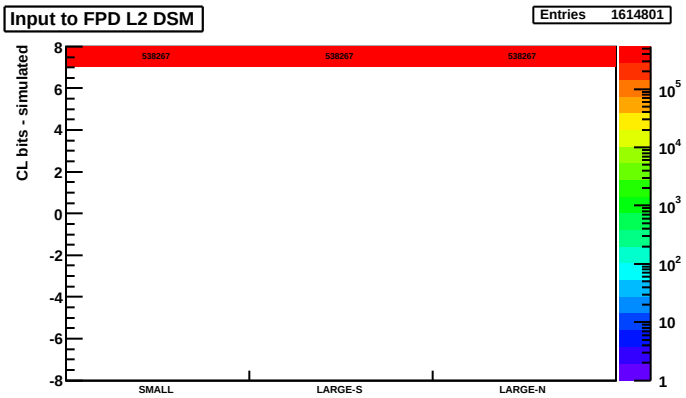

Input to FMS L1 DSM
Entries 6459204
FMS L1 HT bits
DSM board

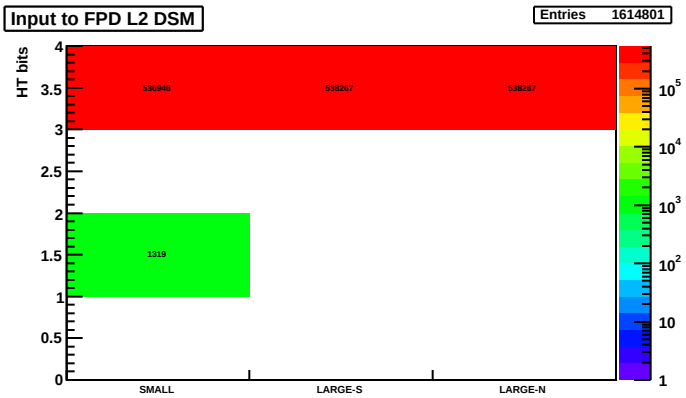

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

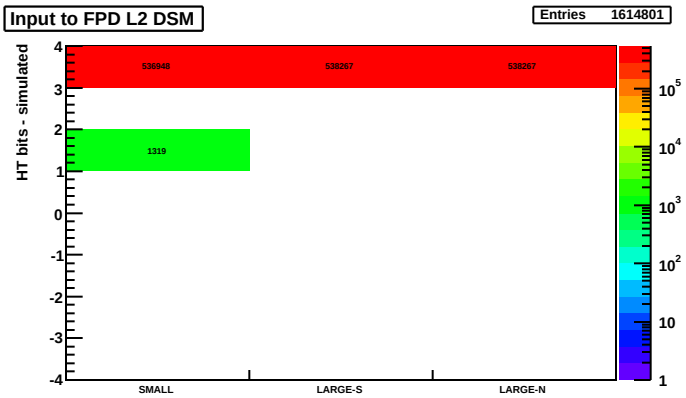

Input to FPD L2 DSM
Entries 4306136
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

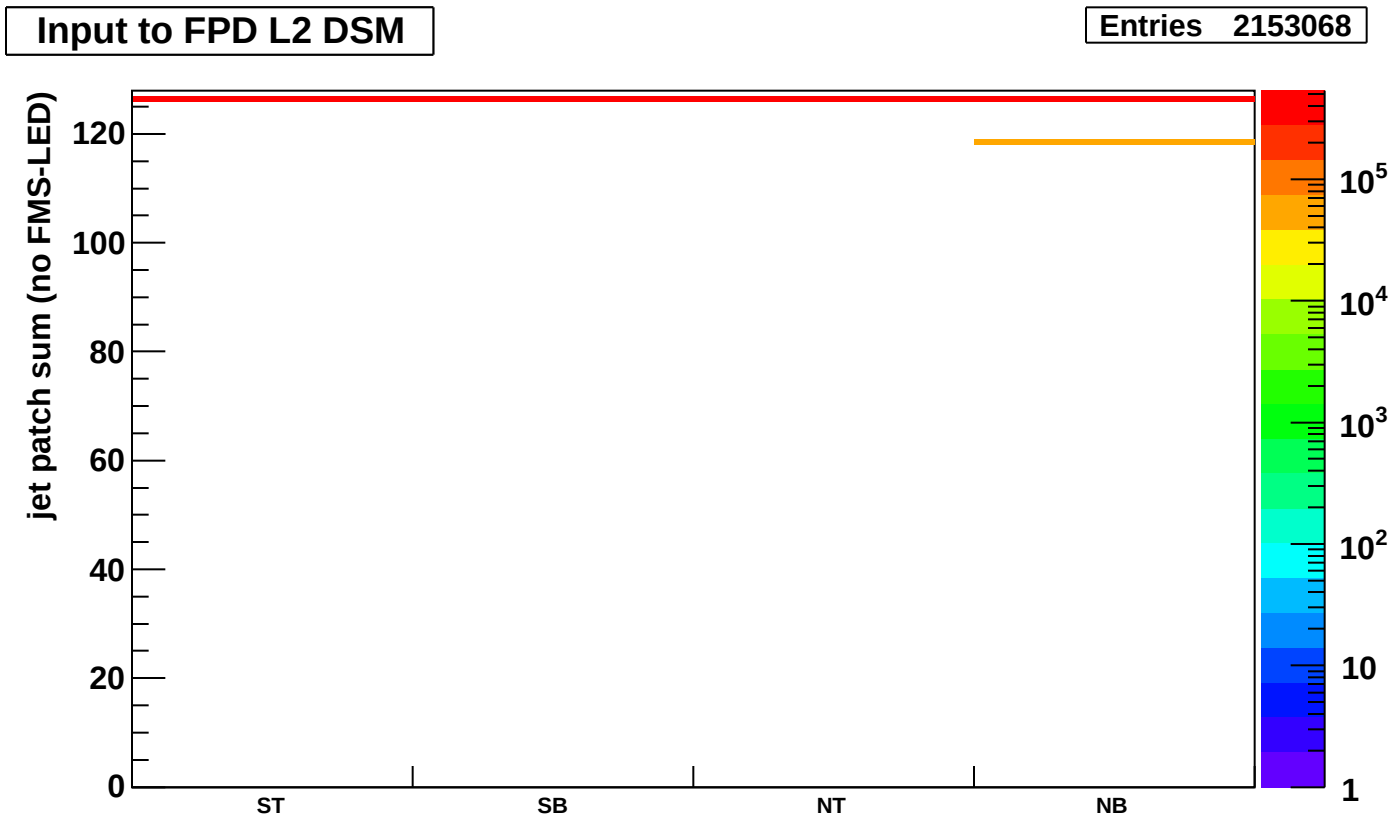

Input to FPD L2 DSM
Entries 4306136
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

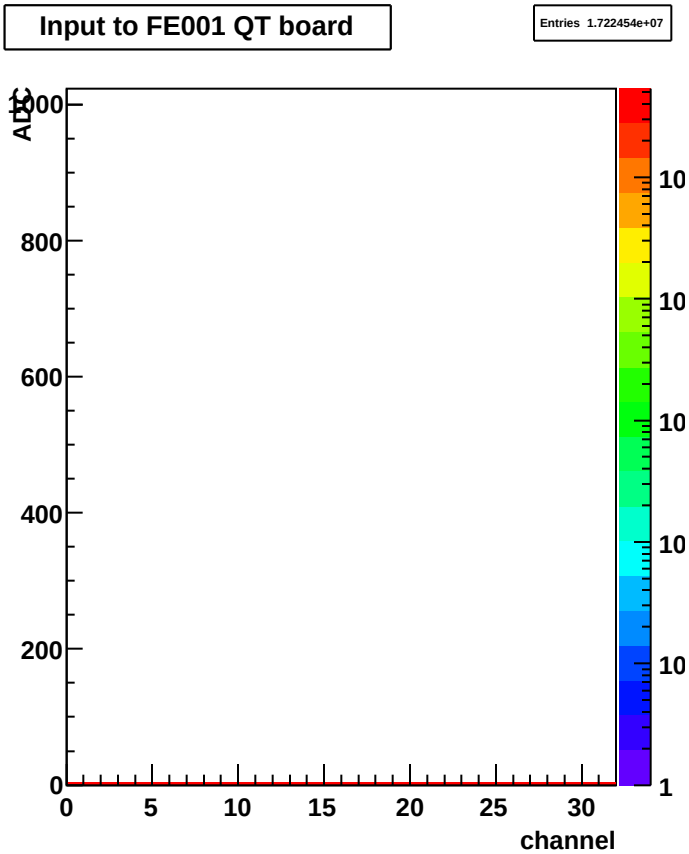

Input to FPD L2 DSM
Entries 1614801
CL bits
538267
538267
538267
SMALL
LARGE-S
LARGE-N

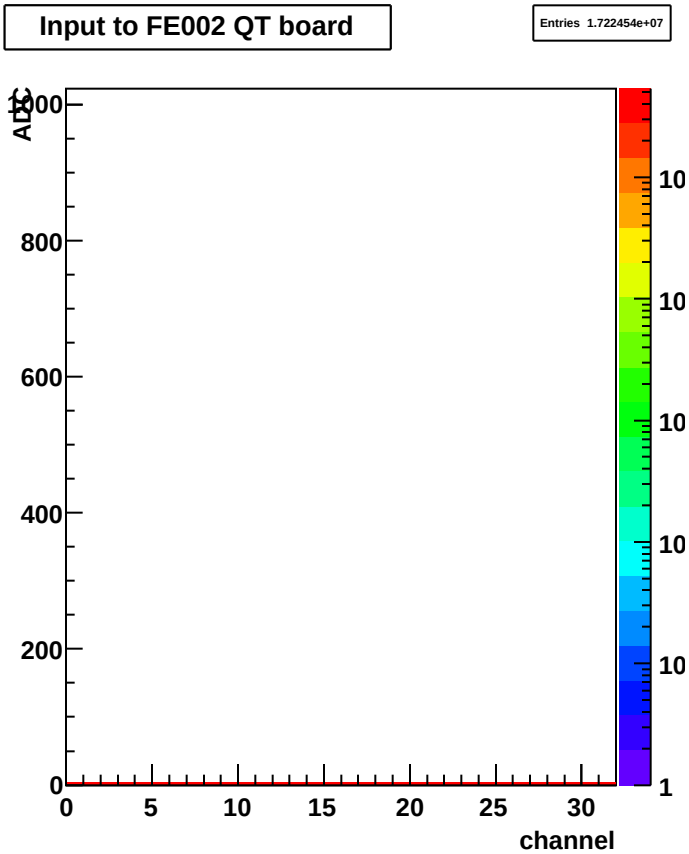

Input to FPD L2 DSM
Entries 1614801
CL bits - simulated
538267
538267
538267
SMALL
LARGE-S
LARGE-N

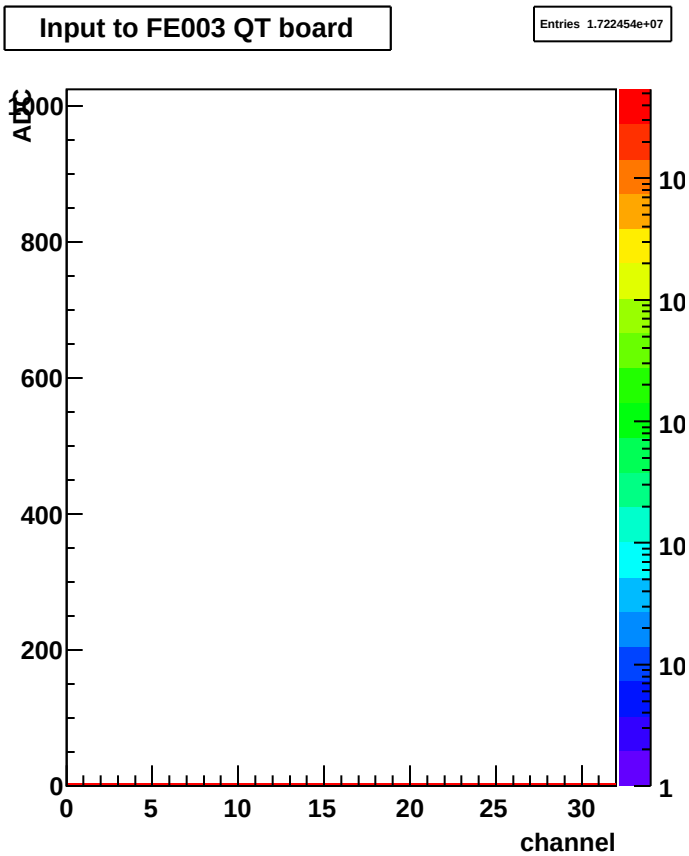

Input to FPD L2 DSM
Entries 1614801
HT bits
536948
538267
538267
1319
SMALL
LARGE-S
LARGE-N

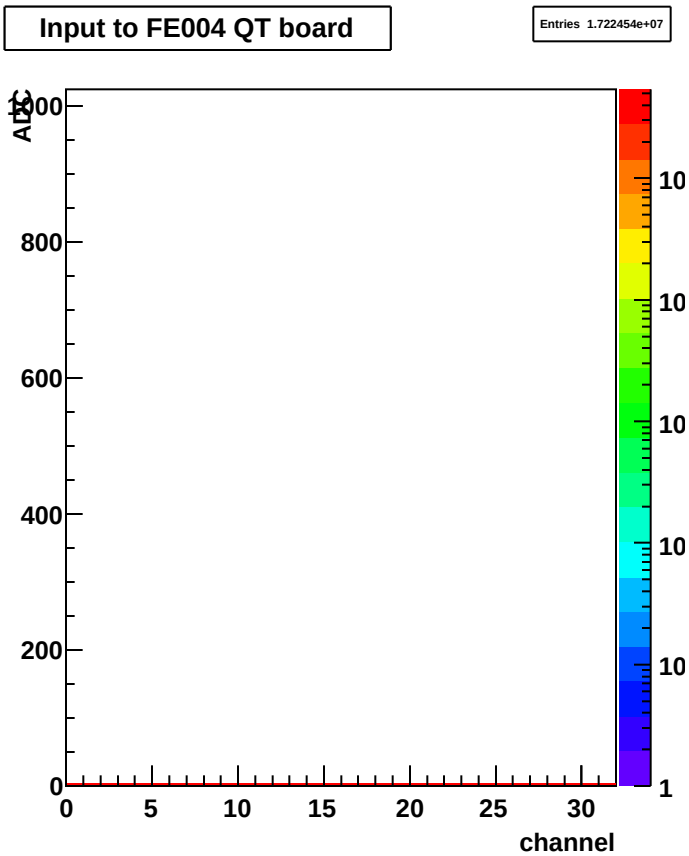

Input to FPD L2 DSM
Entries 1614801
HT bits - simulated
536948
538267
538267
1319
SMALL
LARGE-S
LARGE-N

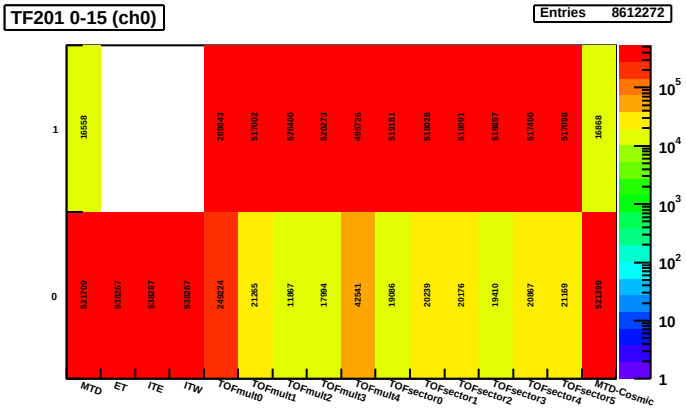

Input to FPD L2 DSM
Entries 2153068
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

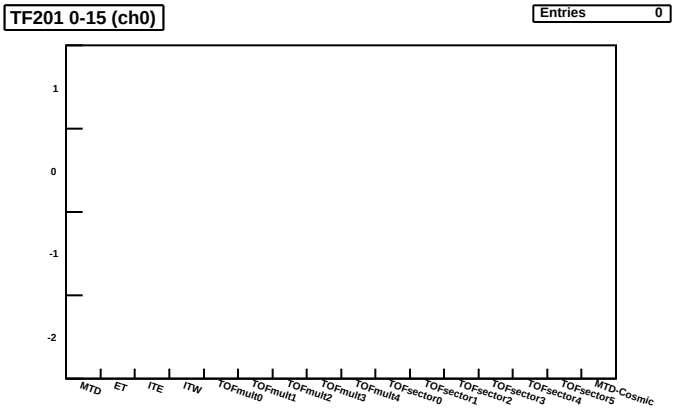

Input to FE001 QT board
Entries 1.722454e+07
ADC
channel

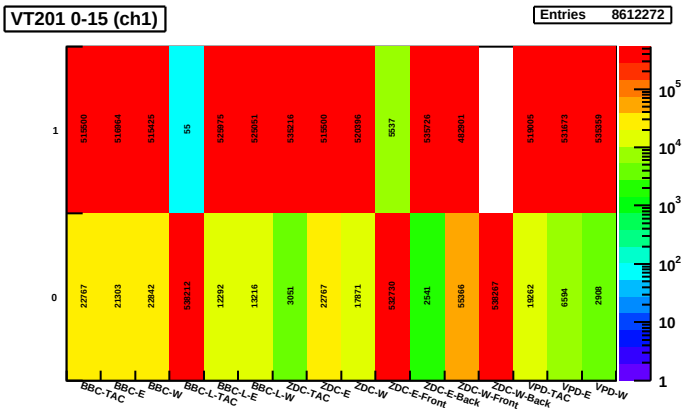

Input to FE002 QT board
Entries 1.722454e+07
ADC
channel

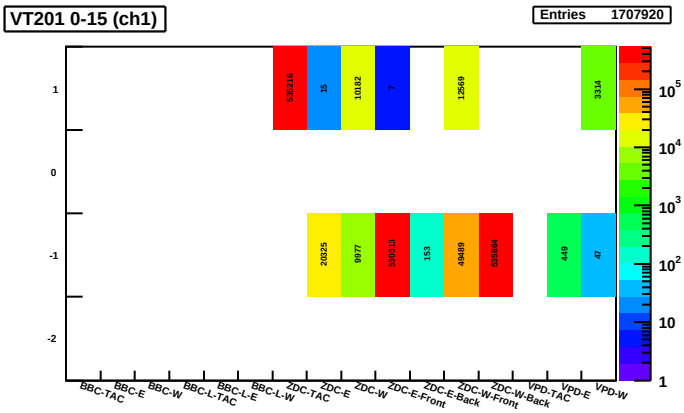

Input to FE003 QT board
Entries 1.722454e+07
ADC
channel

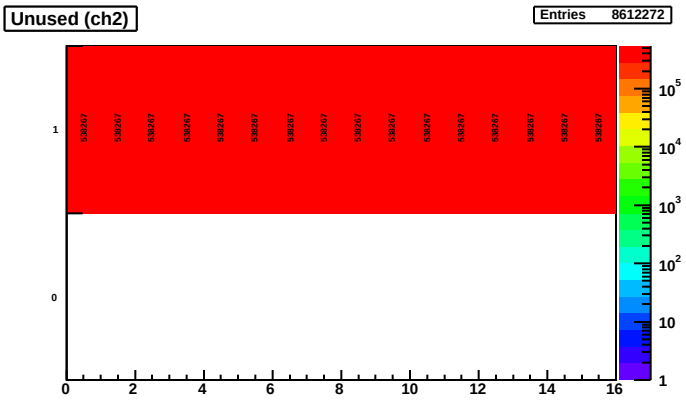

Input to FE004 QT board
Entries 1.722454e+07
ADC
channel

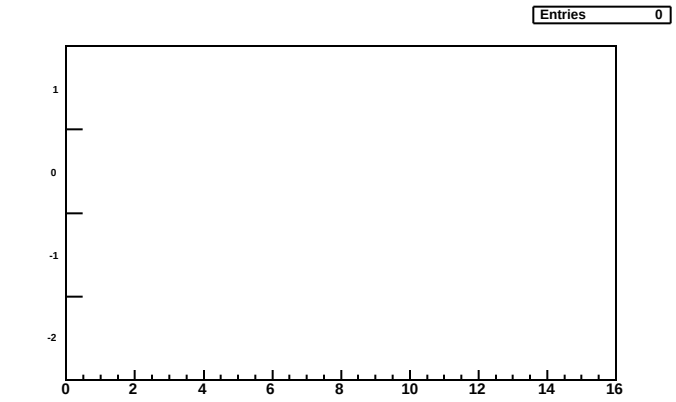

TF201 0-15 (ch0)
Entries 8612272
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

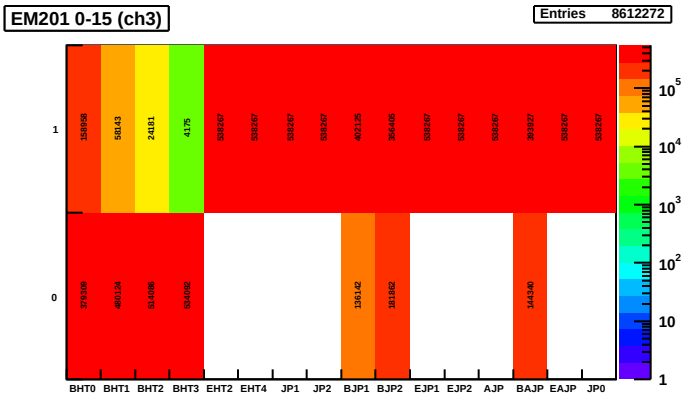

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

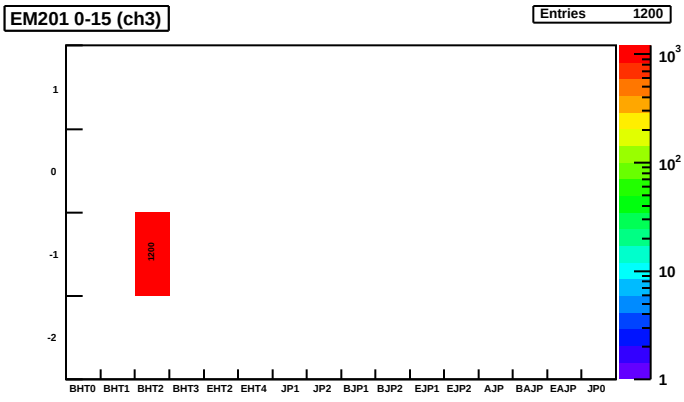

VT201 0-15 (ch1)
Entries 8612272
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1707920
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

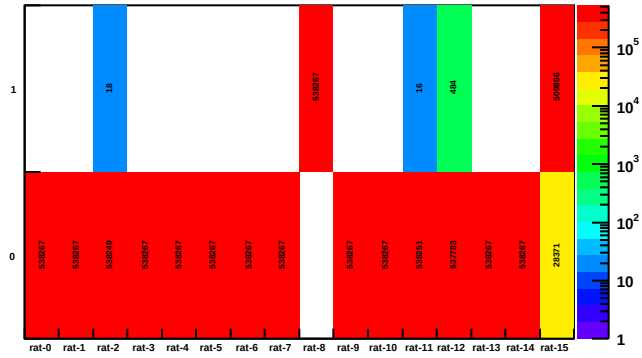

Unused (ch2)
Entries 8612272

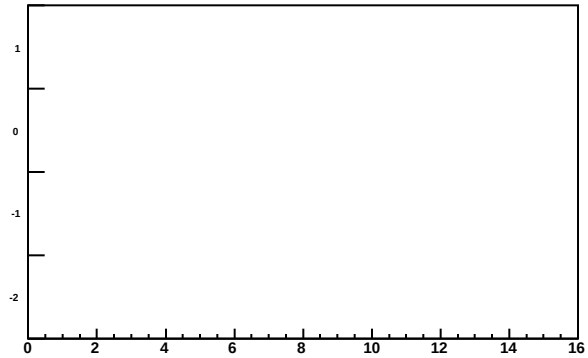

Entries 0


EM201 0-15 (ch3)
Entries 8612272
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

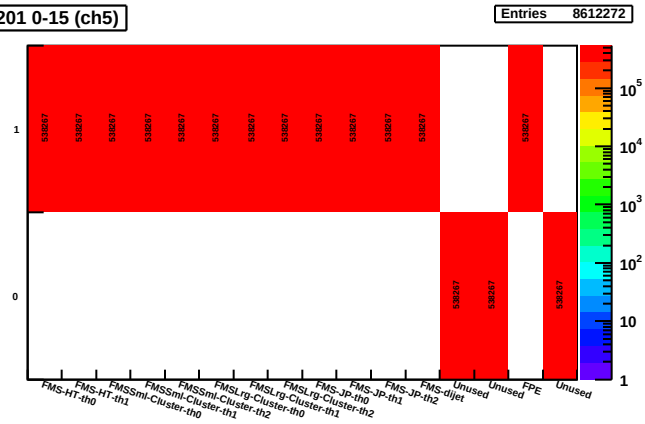

EM201 0-15 (ch3)
Entries 1200
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

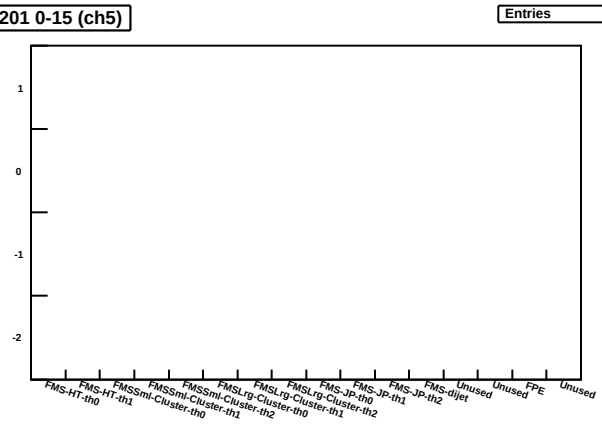




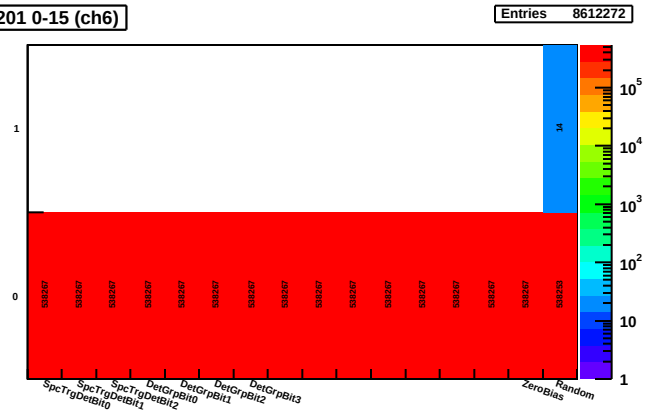
FP201 0-15 (ch5)

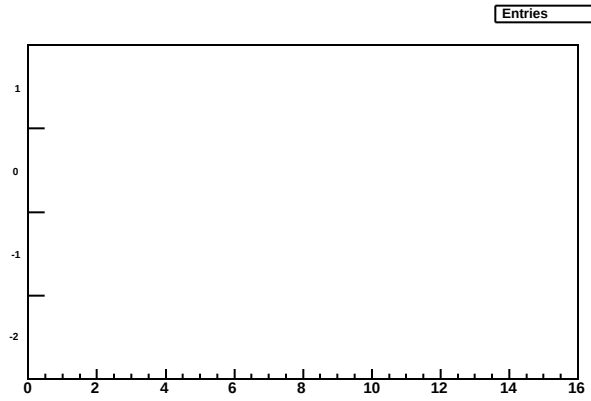
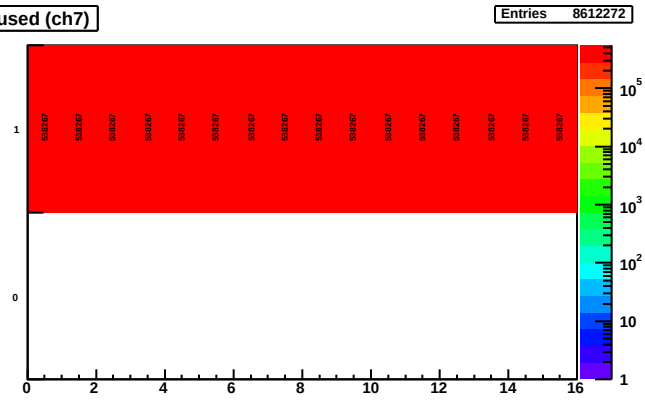
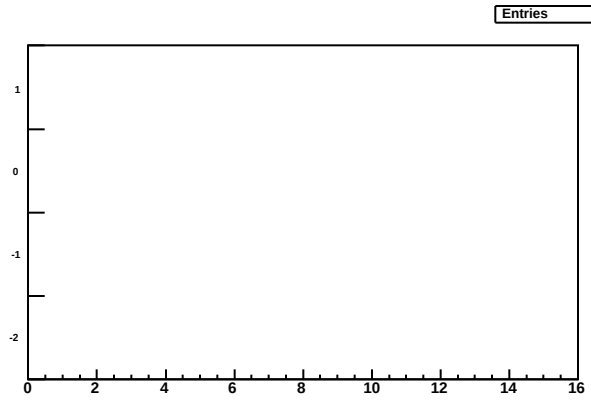


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)