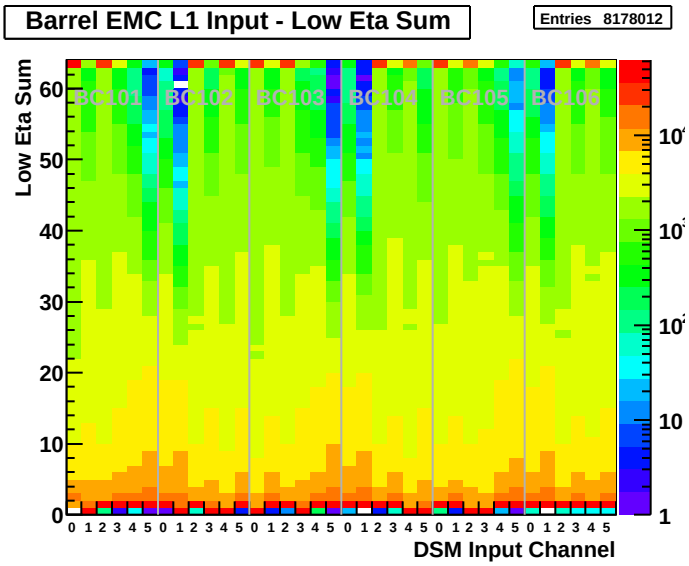
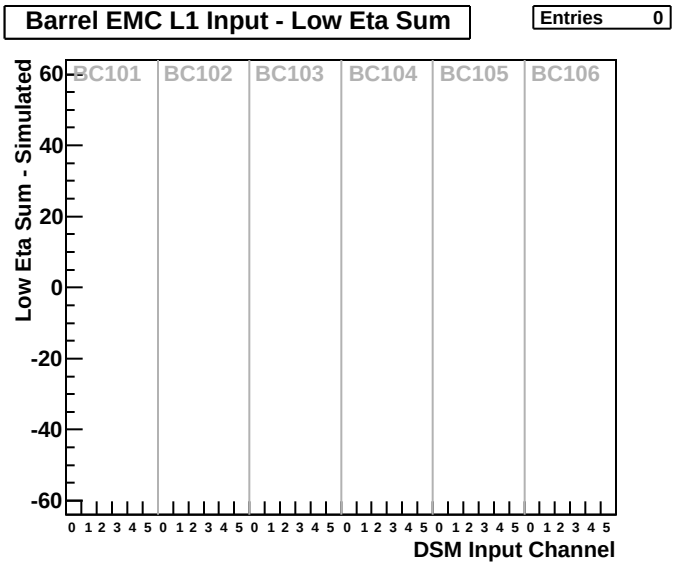
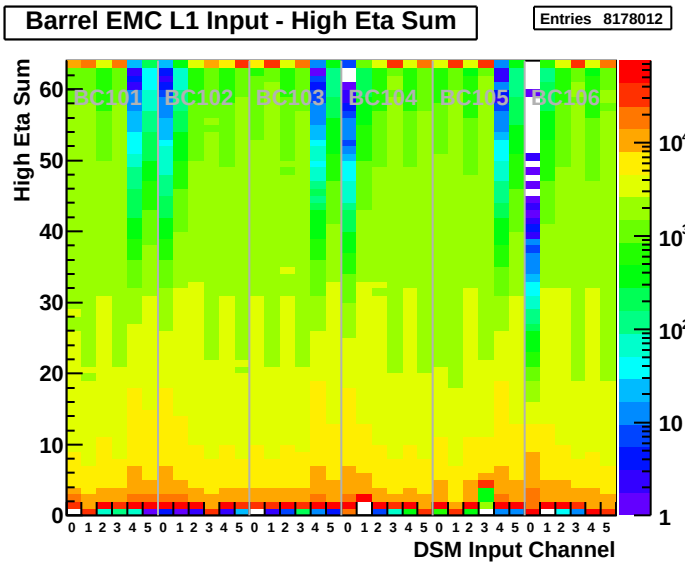
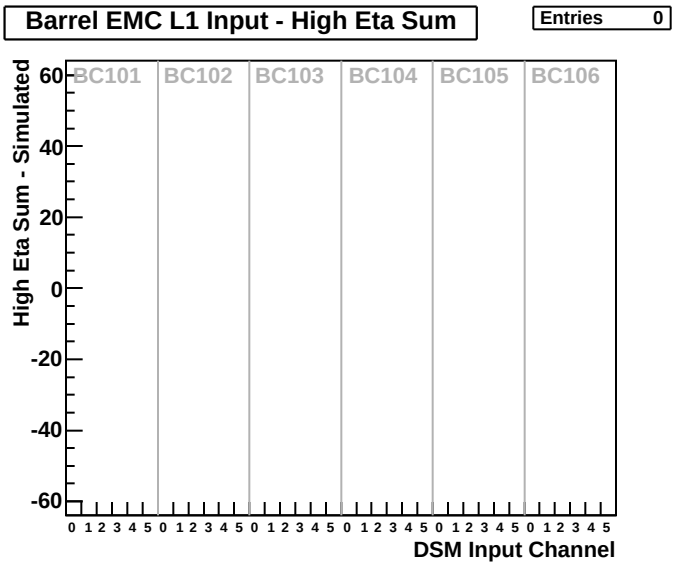
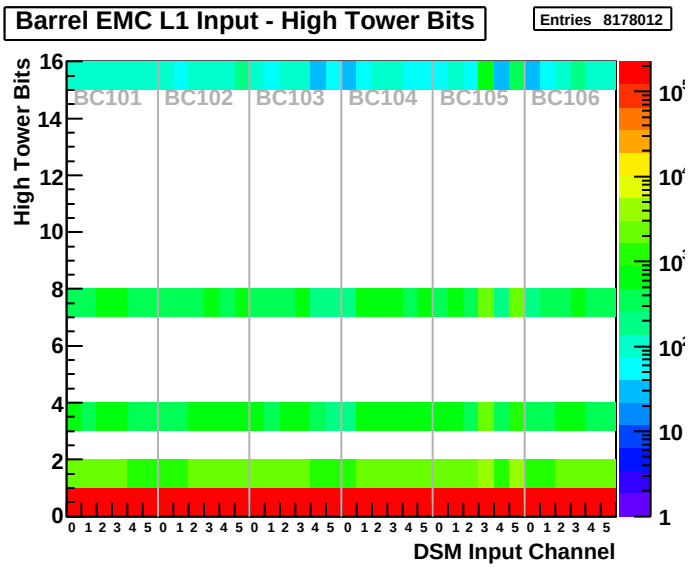
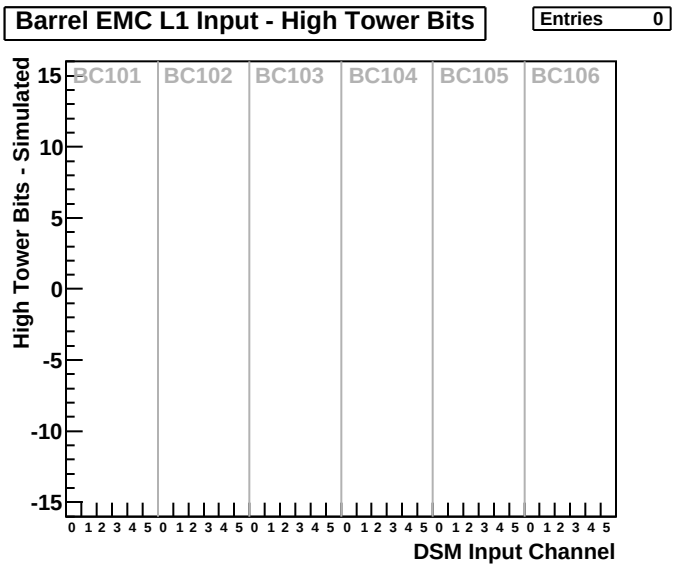

Barrel EMC L1 Input - Low Eta Sum
Entries 8178012
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

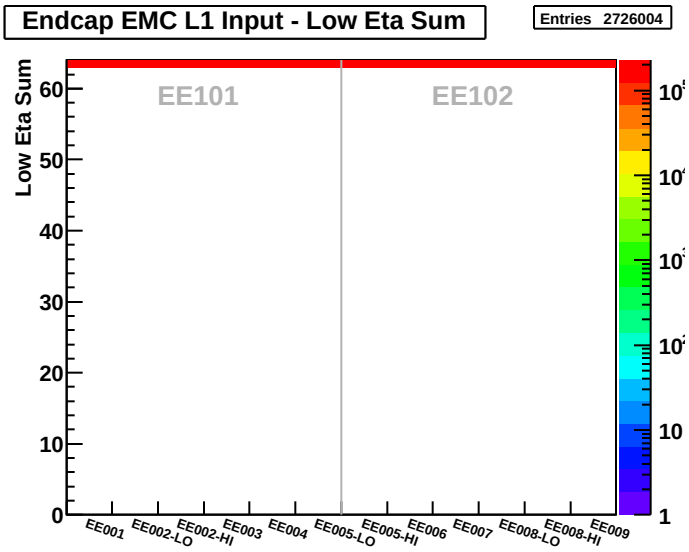

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

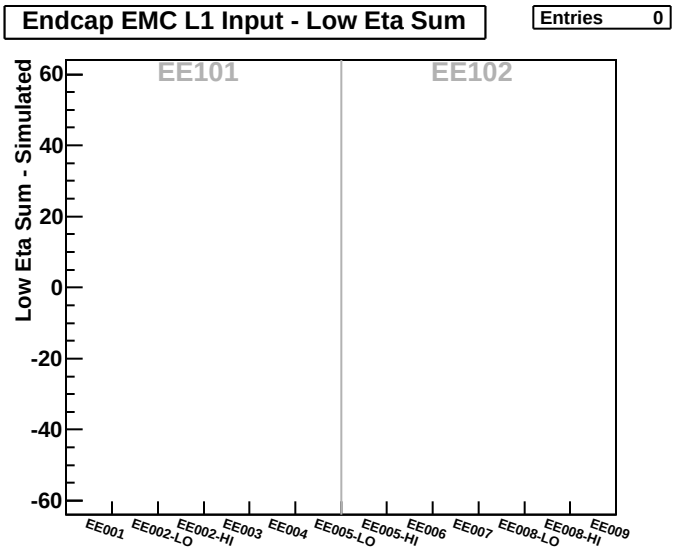

Barrel EMC L1 Input - High Eta Sum
Entries 8178012
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

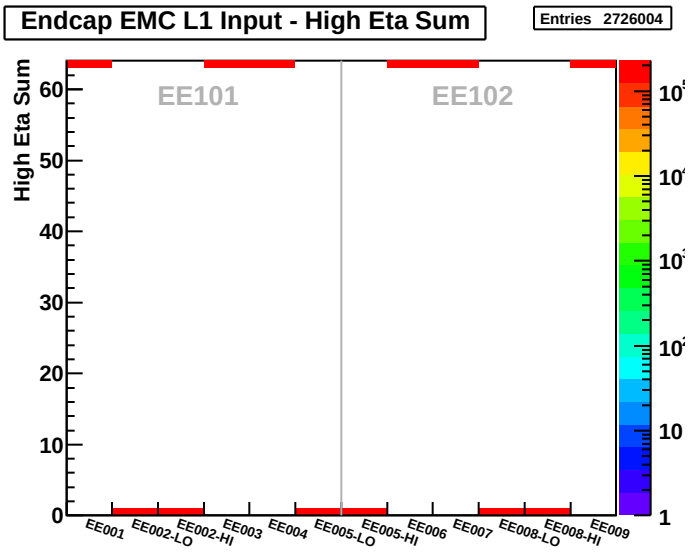

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

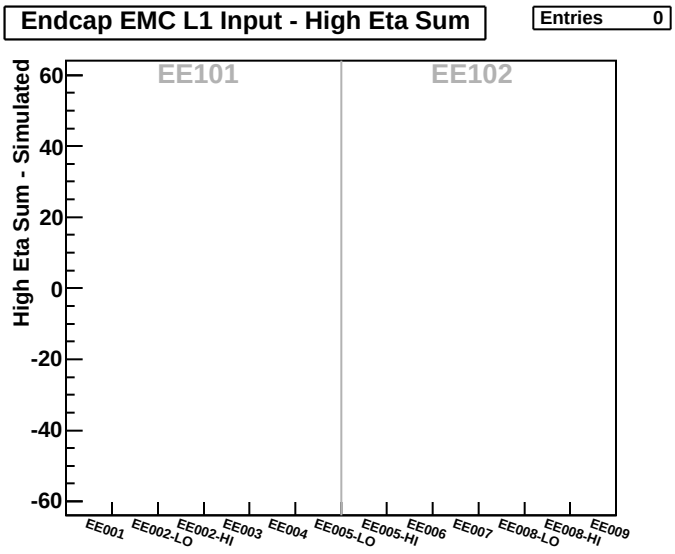

Barrel EMC L1 Input - High Tower Bits
Entries 8178012
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

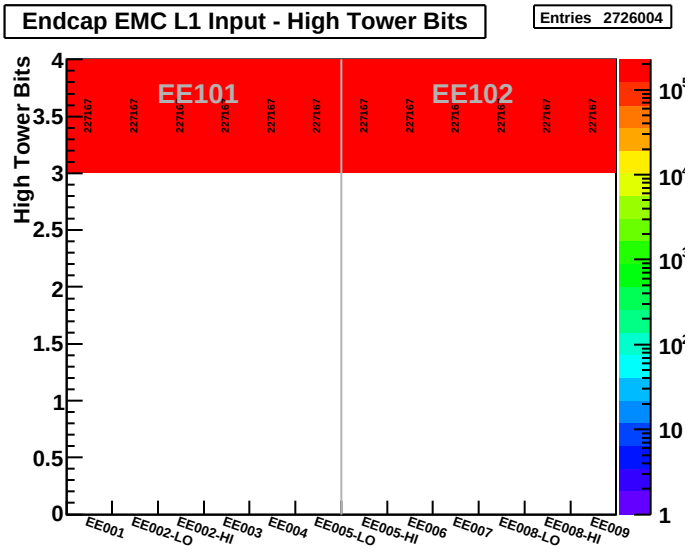

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

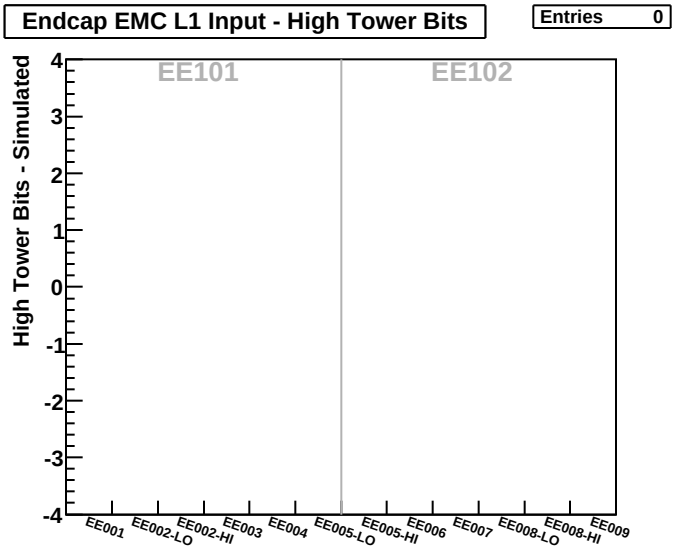

Endcap EMC L1 Input - Low Eta Sum
Entries 2726004
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

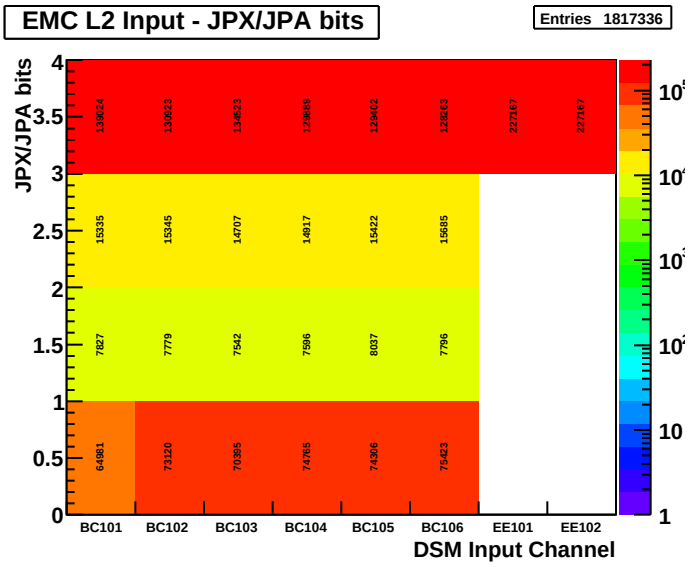

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

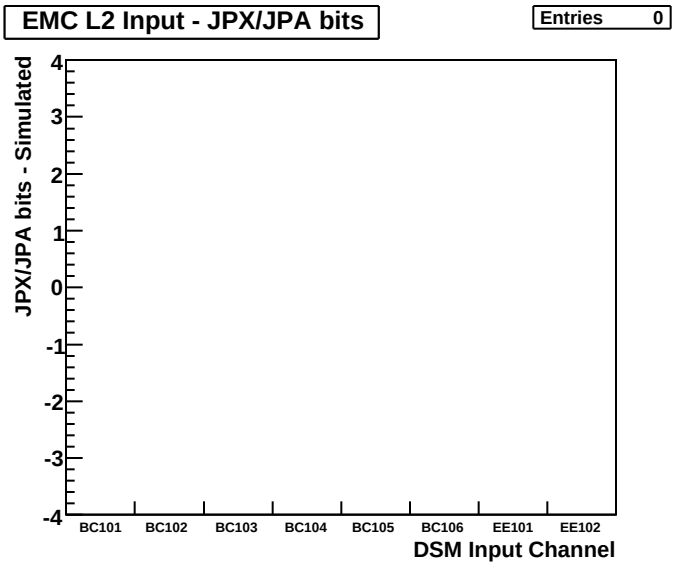

Endcap EMC L1 Input - High Eta Sum
Entries 2726004
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

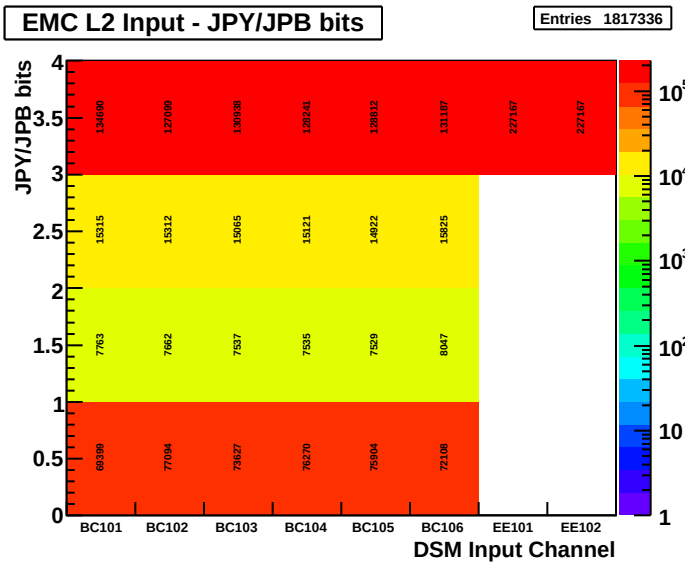

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

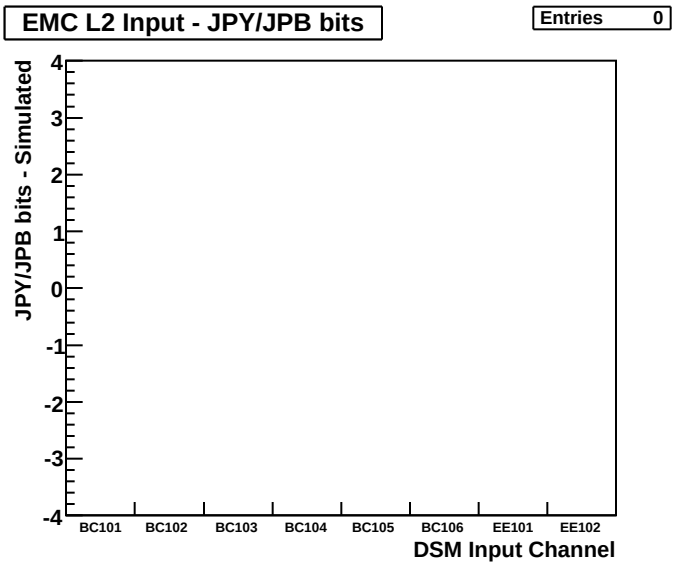

Endcap EMC L1 Input - High Tower Bits
Entries 2726004
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

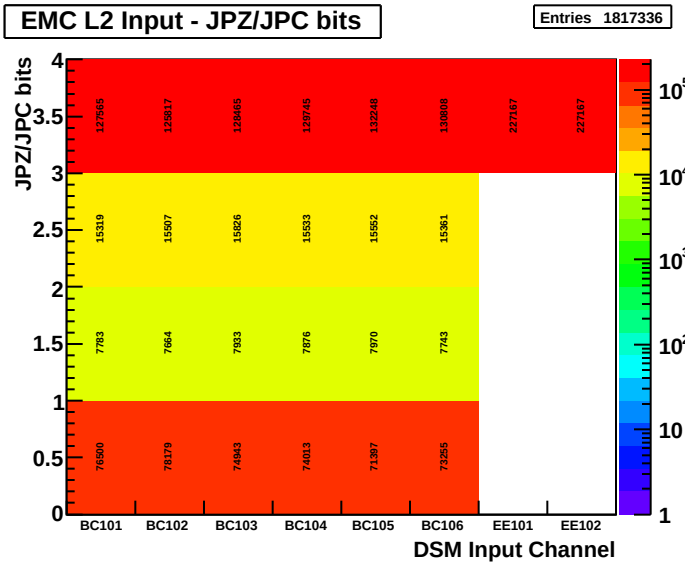

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

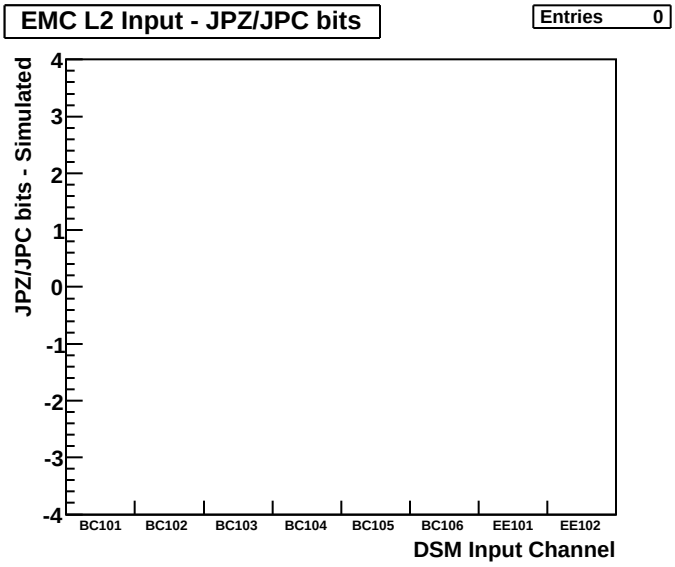

EMC L2 Input - JPX/JPA bits
Entries 1817336
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
139024 139023 134623 128689 129402 128863 227167 227167
15335 15345 14707 14017 15422 15685
7827 7779 7542 7596 8037 7796
64981 73120 70395 74765 74306 75423

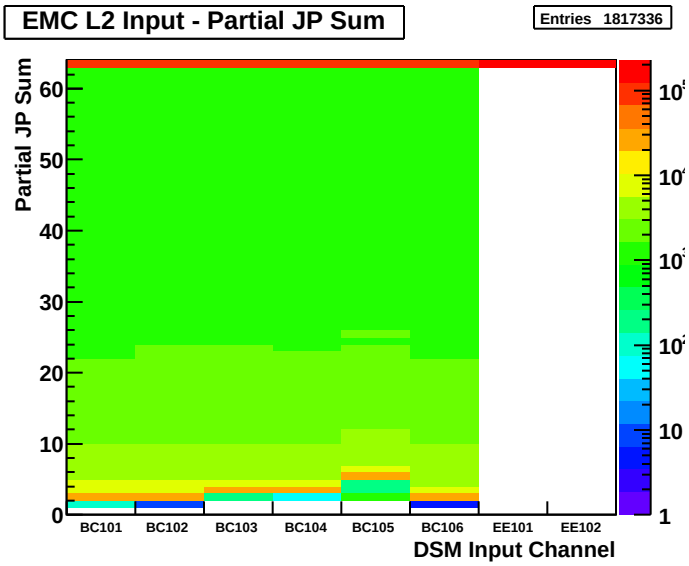

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

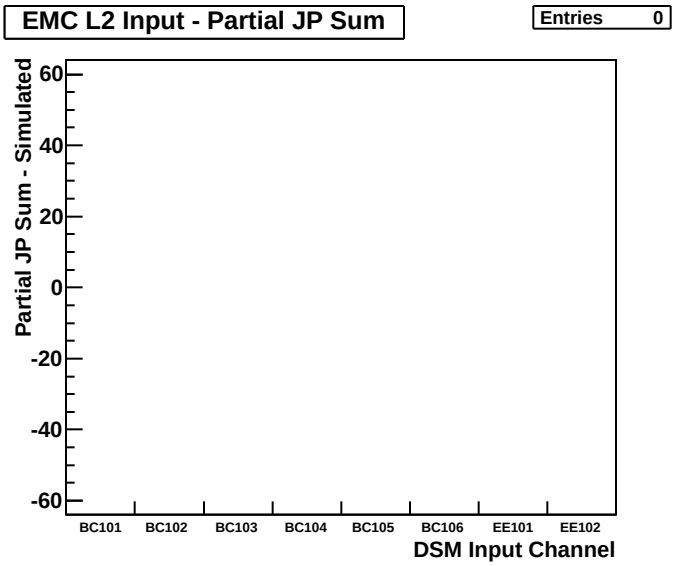

EMC L2 Input - JPY/JPB bits
Entries 1817336
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
134690 127099 130938 128241 128812 131187 227167 227167
15315 15312 15065 15121 14922 15825
7763 7662 7537 7535 7529 8047
69399 77094 73627 76270 75904 72108

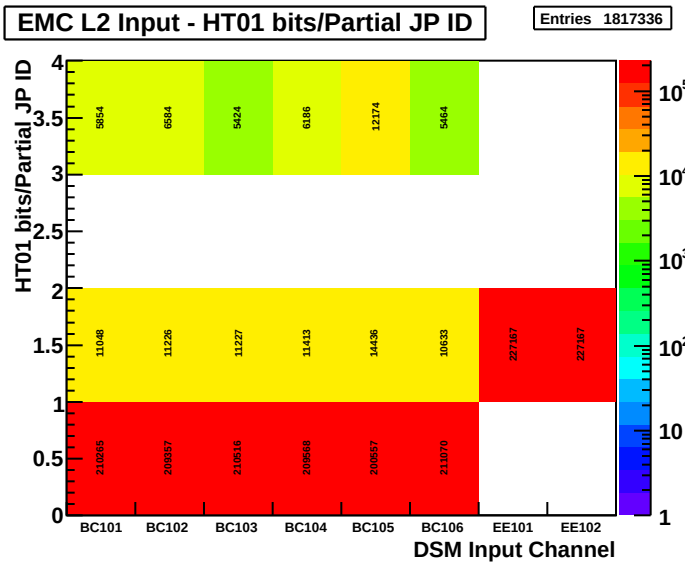

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

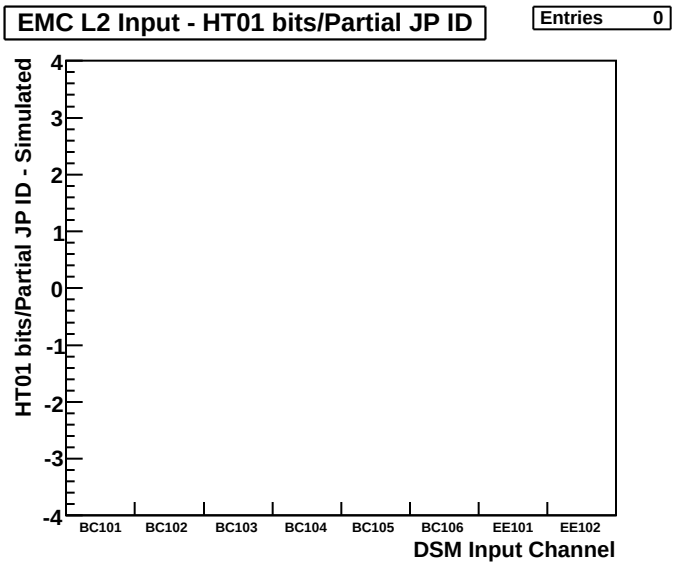

EMC L2 Input - JPZ/JPC bits
Entries 1817336
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
127565 128317 128465 129745 132248 130808 227167 227167
15319 15507 15826 15533 15552 15361
7783 7664 7933 7876 7970 7743
76500 78179 74943 74013 71397 73255

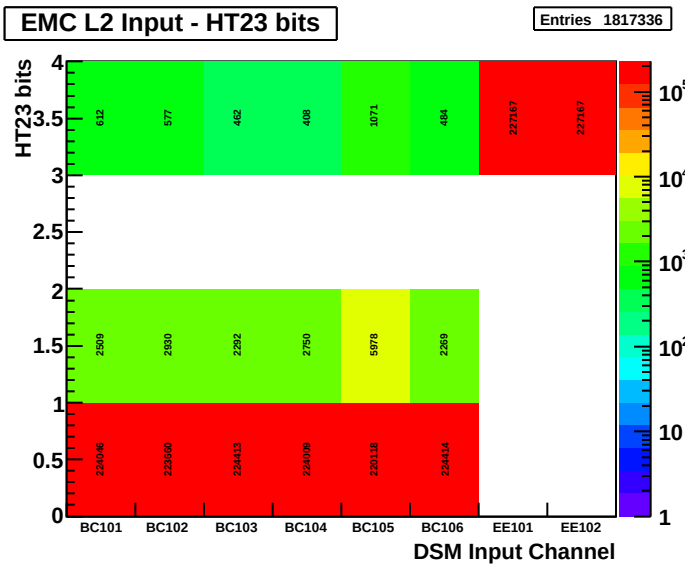

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

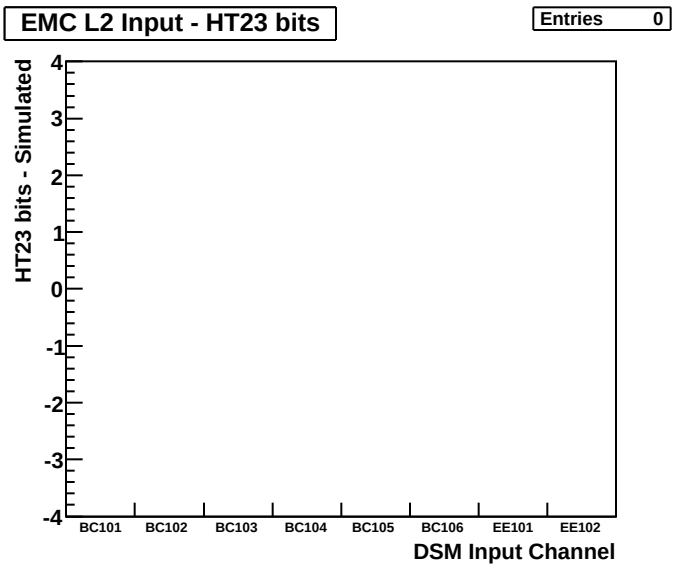

EMC L2 Input - Partial JP Sum
Entries 1817336
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

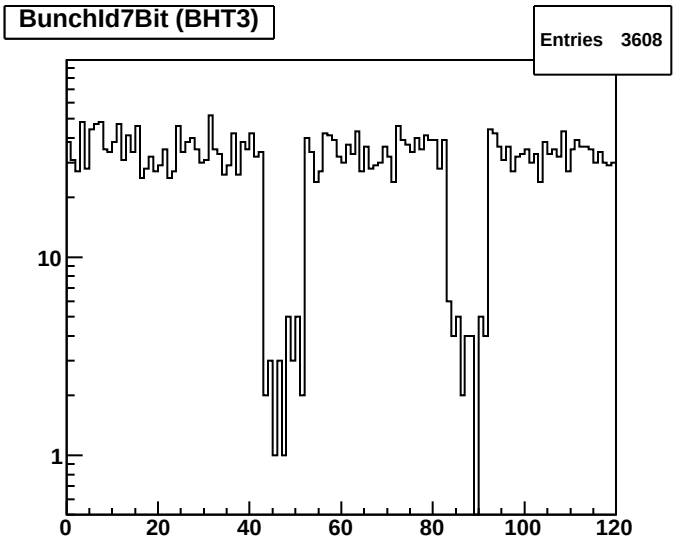

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

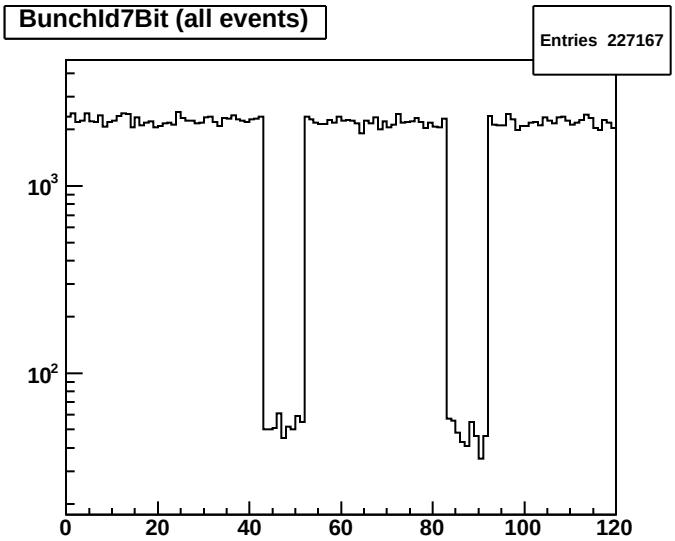

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1817336
HT01 bits/Partial JP ID
5854 6584 5424 6186 12174 5464
11048 11236 11227 11413 14436 10633 227167 227167
210265 209357 210516 209568 209557 211070
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

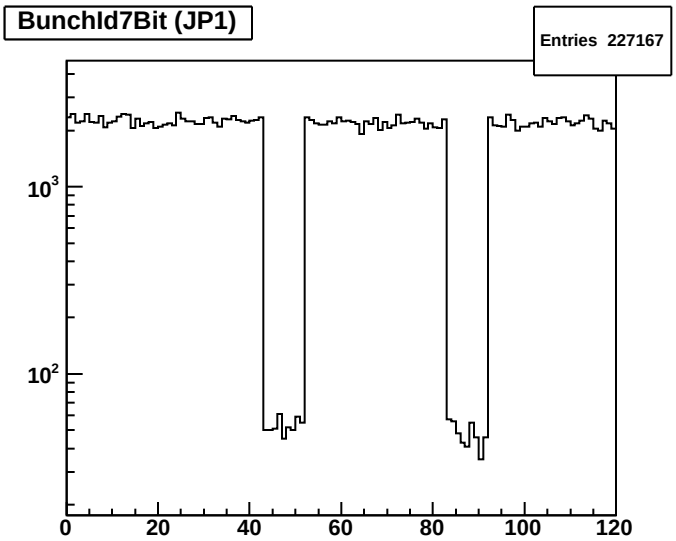

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

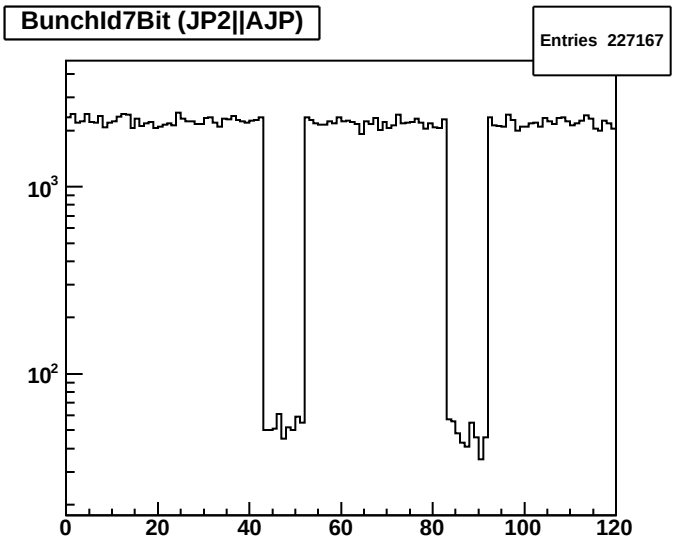

EMC L2 Input - HT23 bits
Entries 1817336
HT23 bits
612 577 462 408 1071 484 227167 227167
2909 2930 2292 2750 5978 2269
224046 223560 224413 224009 220118 224414
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

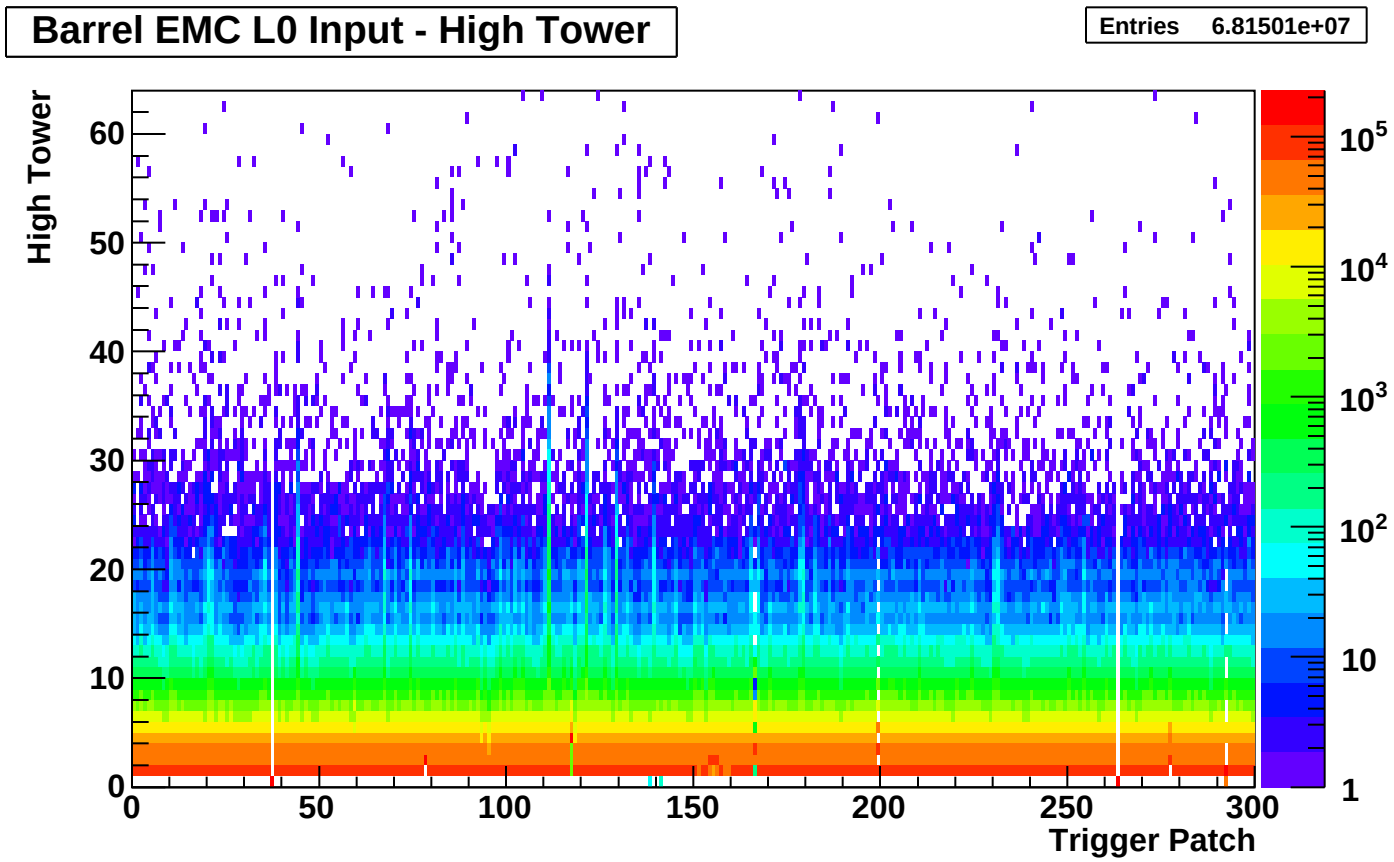

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

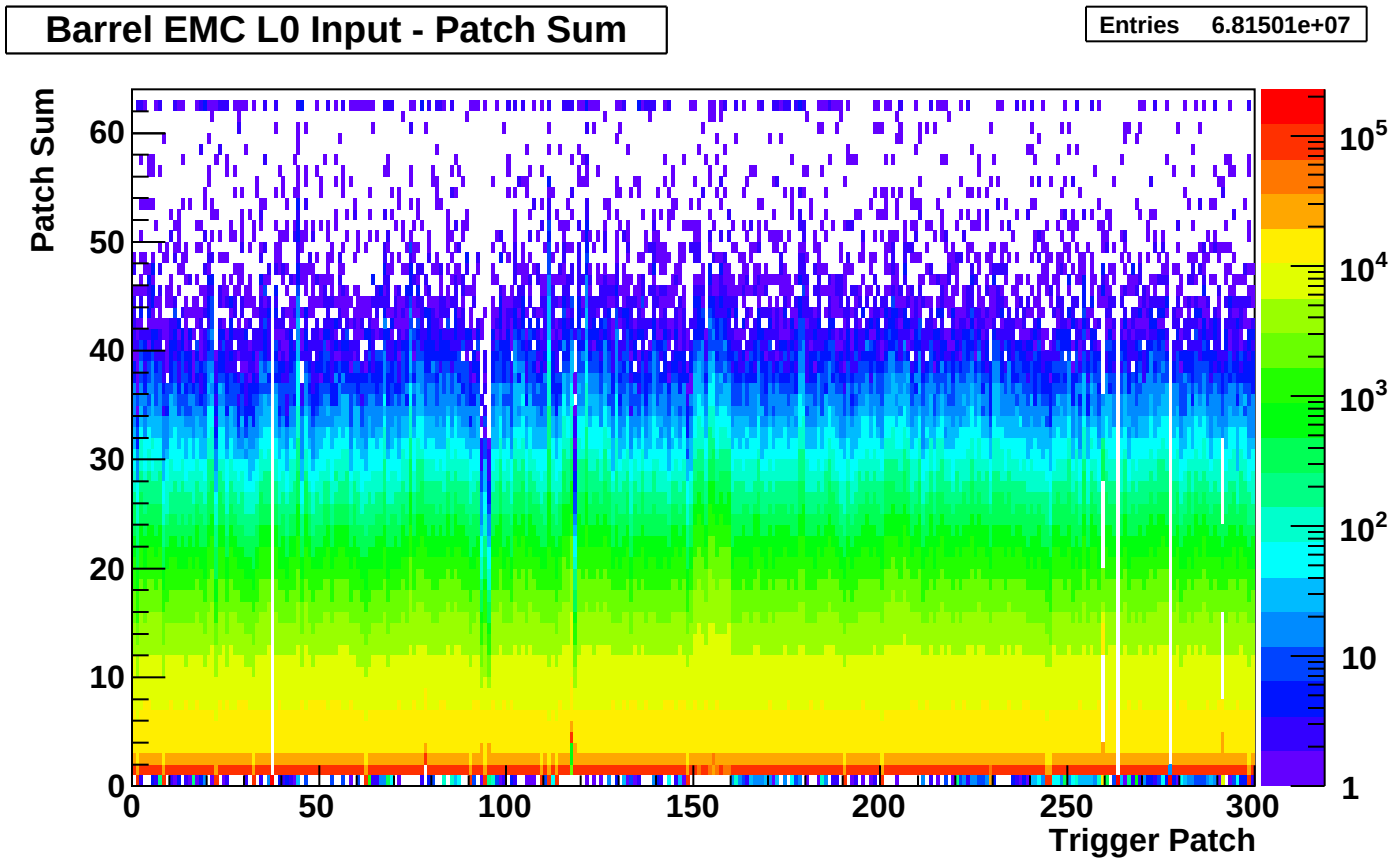

BunchId7Bit (BHT3)
Entries 3608
10
1
0
20
40
60
80
100
120

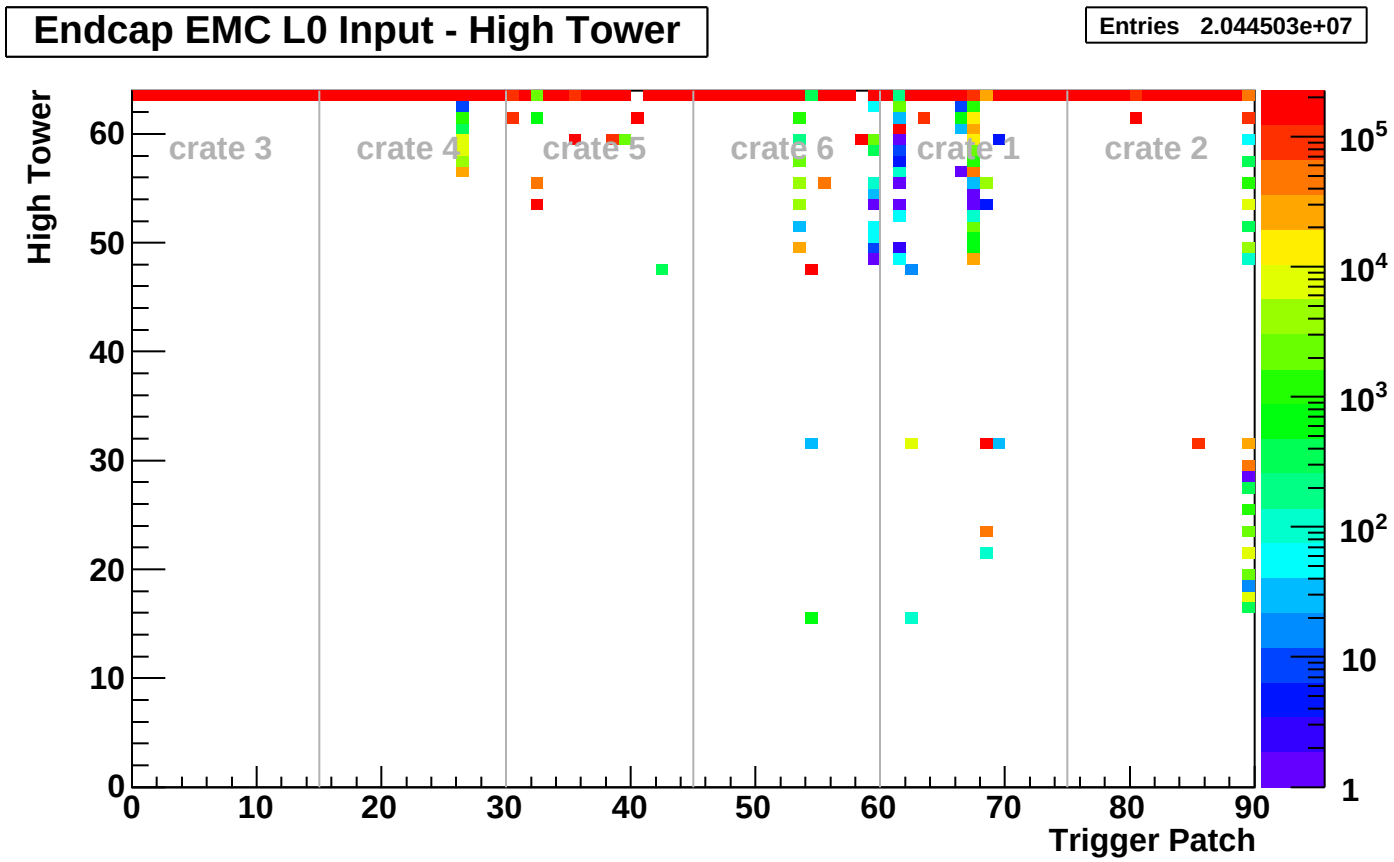

BunchId7Bit (all events)
Entries 227167
10^3
10^2
0
20
40
60
80
100
120

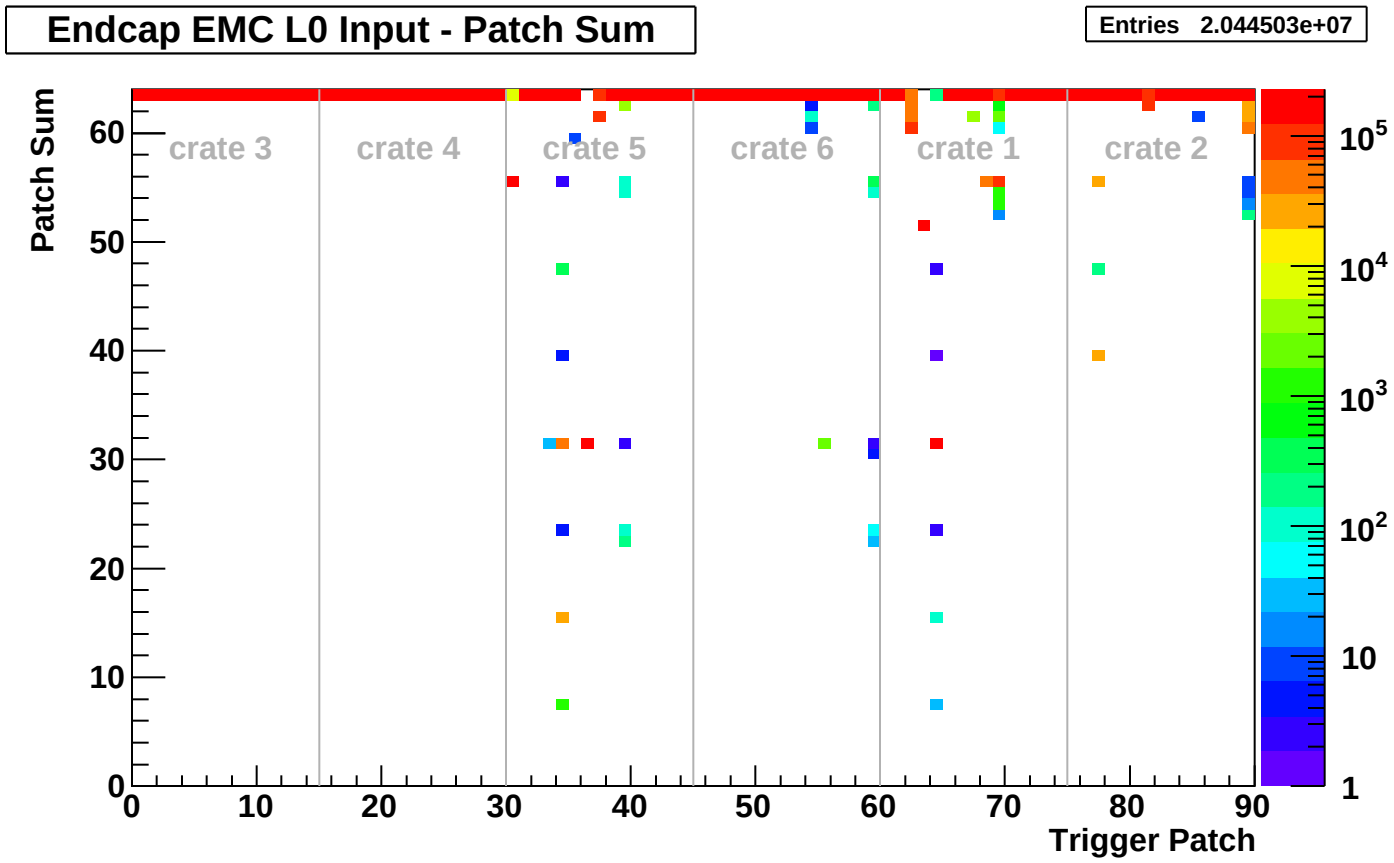

BunchId7Bit (JP1)
Entries 227167
10^3
10^2
0
20
40
60
80
100
120

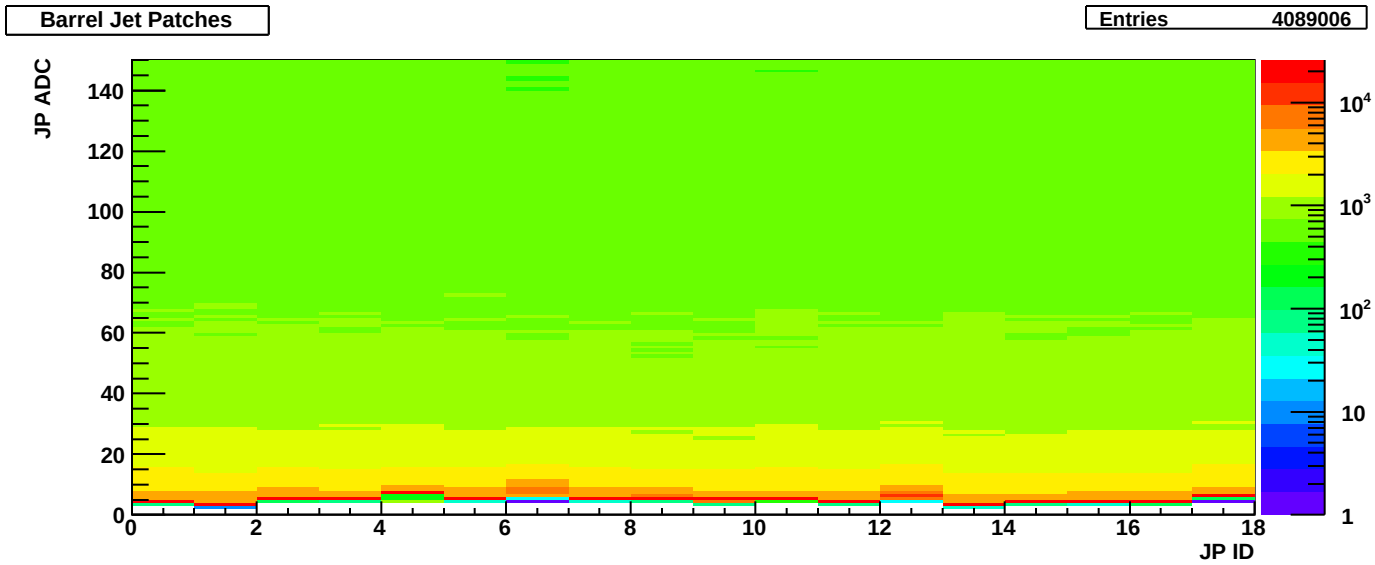

BunchId7Bit (JP2||AJP)
Entries 227167
10^3
10^2
0
20
40
60
80
100
120

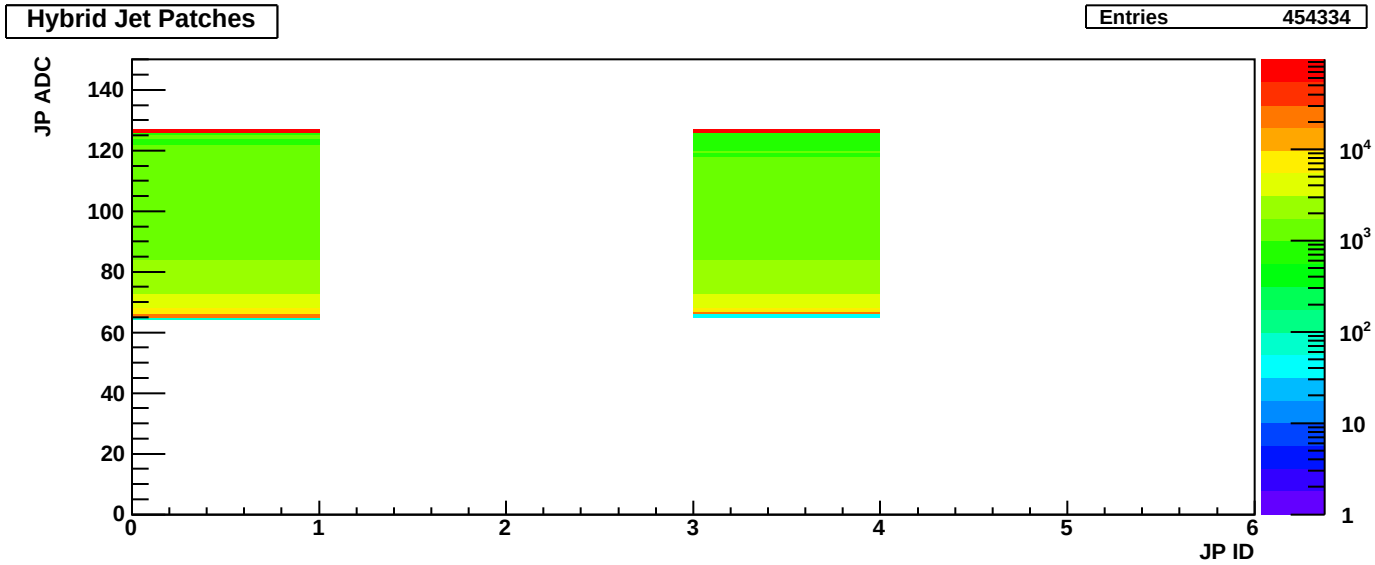

Barrel EMC L0 Input - High Tower
Entries 6.81501e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

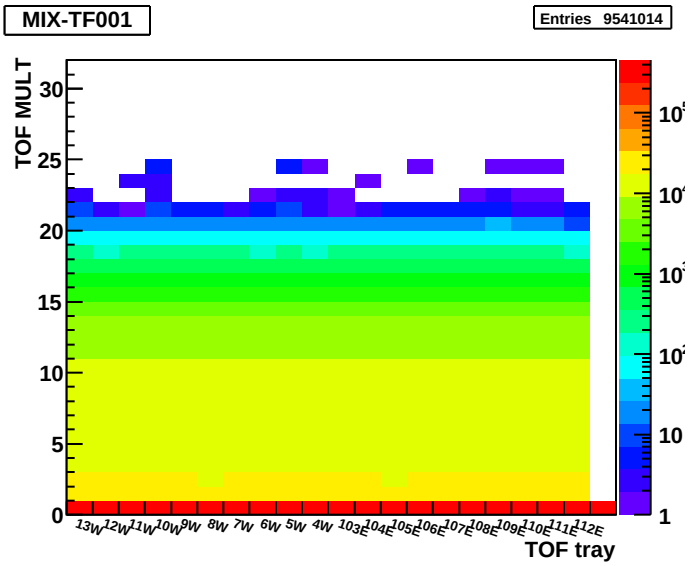

Barrel EMC L0 Input - Patch Sum
Entries 6.81501e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

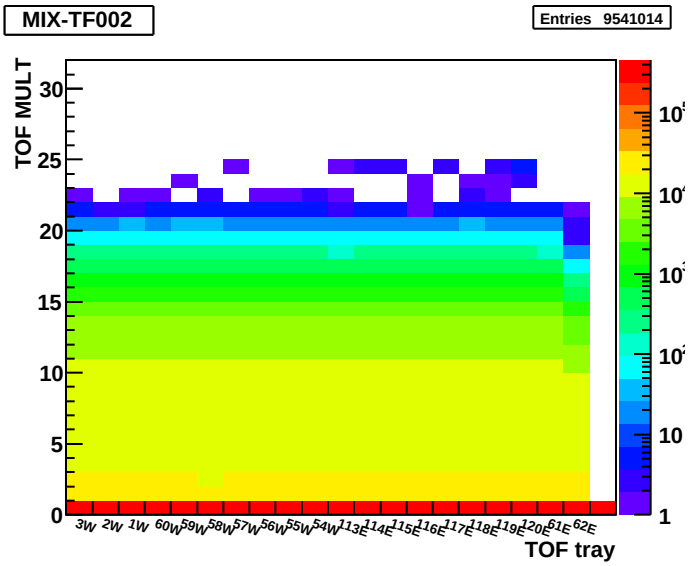

Endcap EMC L0 Input - High Tower
Entries 2.044503e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

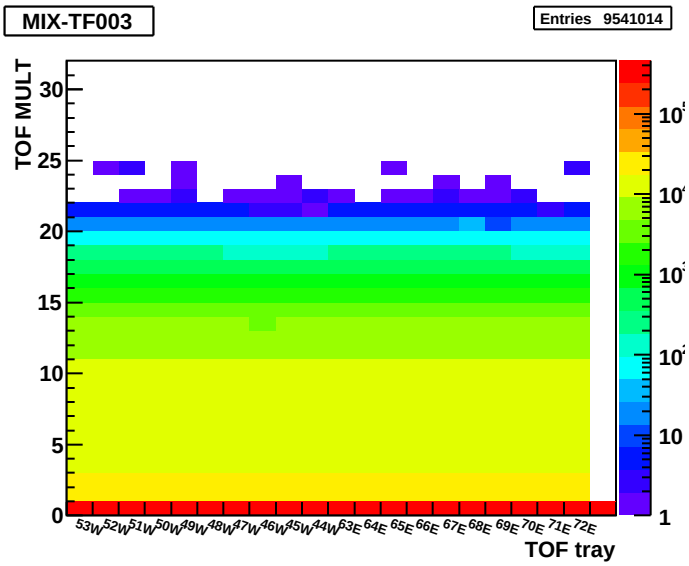

Endcap EMC L0 Input - Patch Sum
Entries 2.044503e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

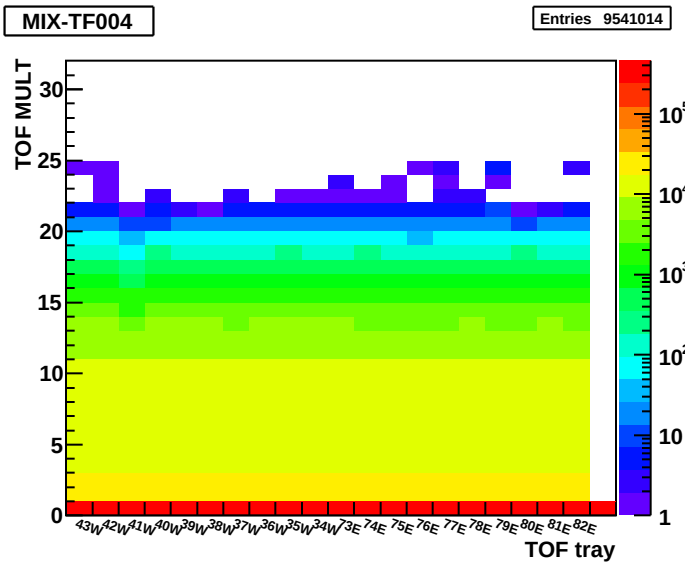

Barrel Jet Patches
Entries 4089006
JP ADC
JP ID

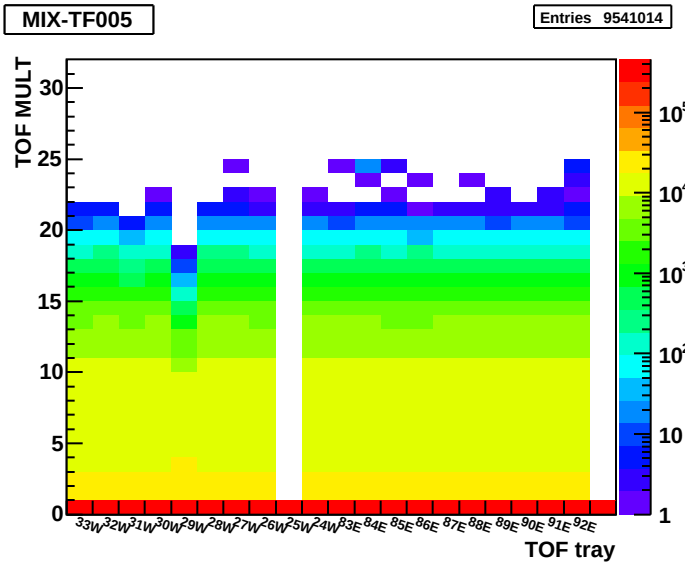

Hybrid Jet Patches
Entries 454334
JP ADC
JP ID

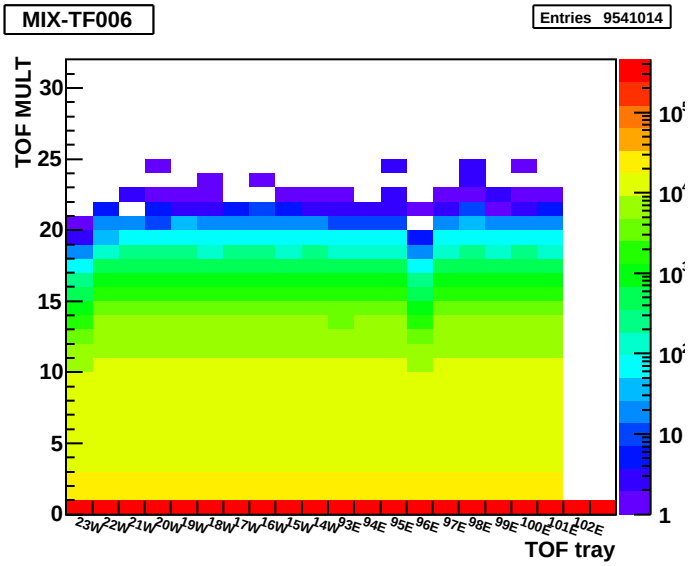

MIX-TF001
Entries 9541014
TOF MULT
TOF tray

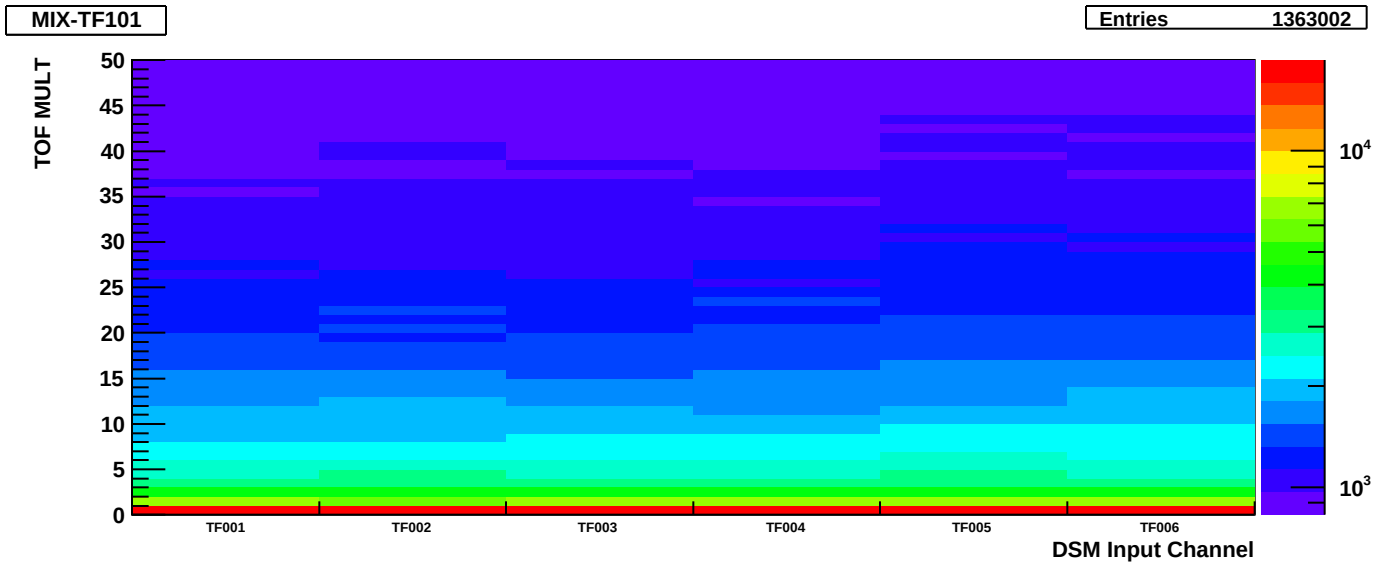

MIX-TF002
Entries 9541014
TOF MULT
TOF tray

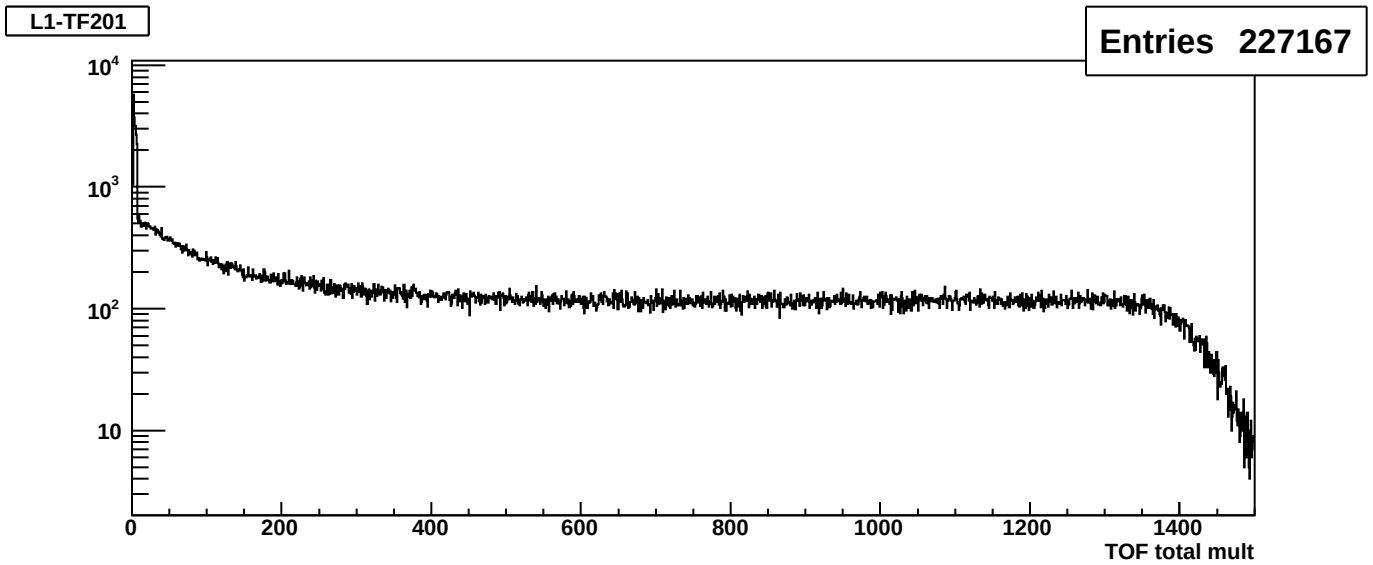

MIX-TF003
Entries 9541014
TOF MULT
TOF tray

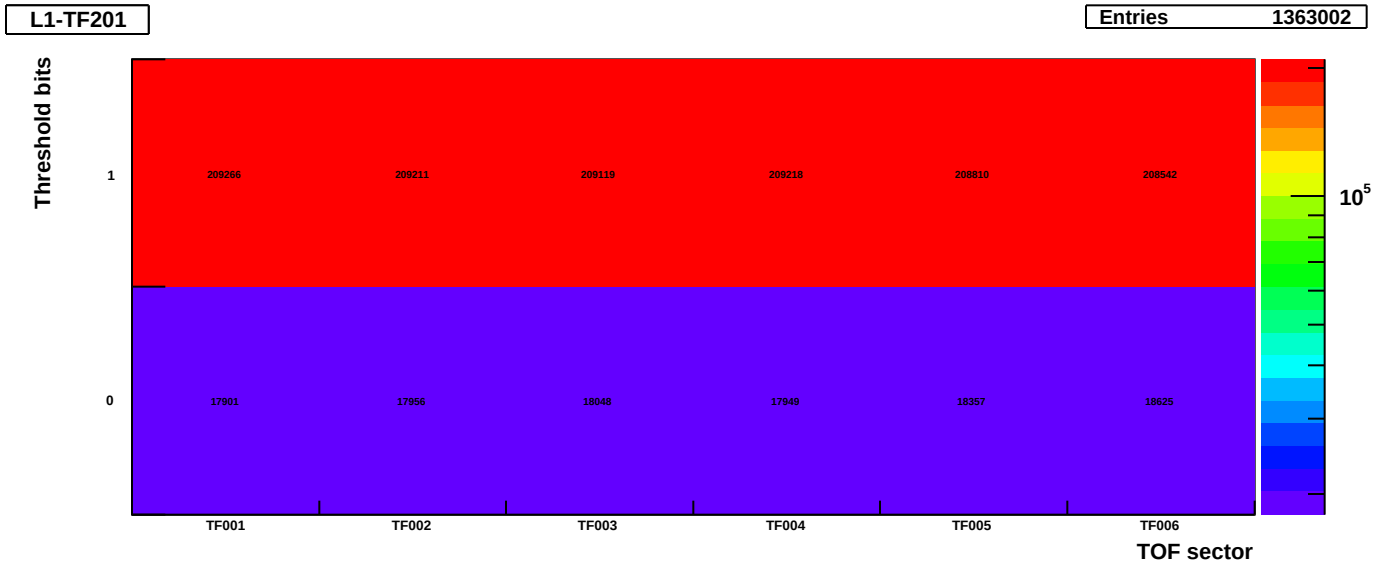

MIX-TF004
Entries 9541014
TOF MULT
TOF tray

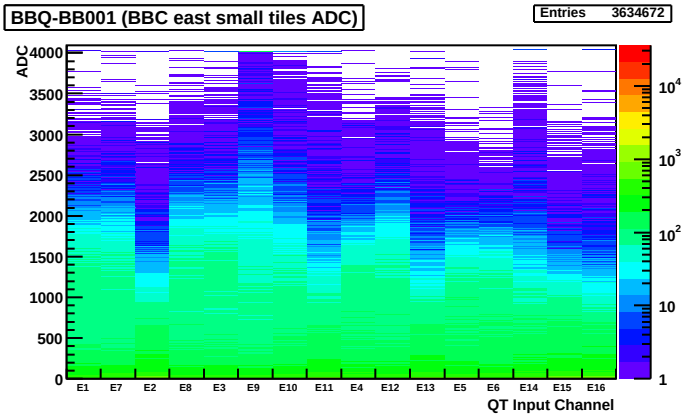

MIX-TF005
Entries 9541014
TOF MULT
TOF tray

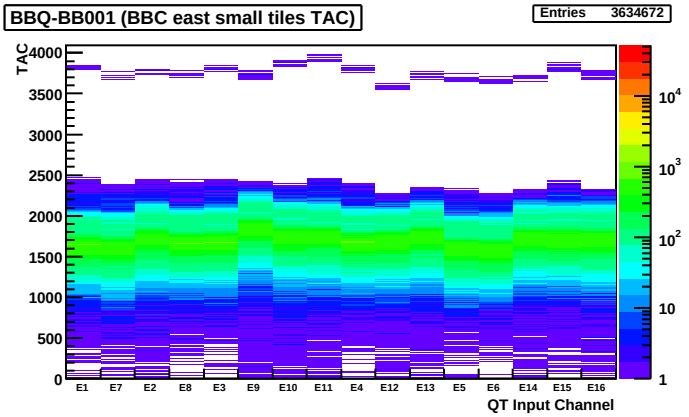

MIX-TF006
Entries 9541014
TOF MULT
TOF tray

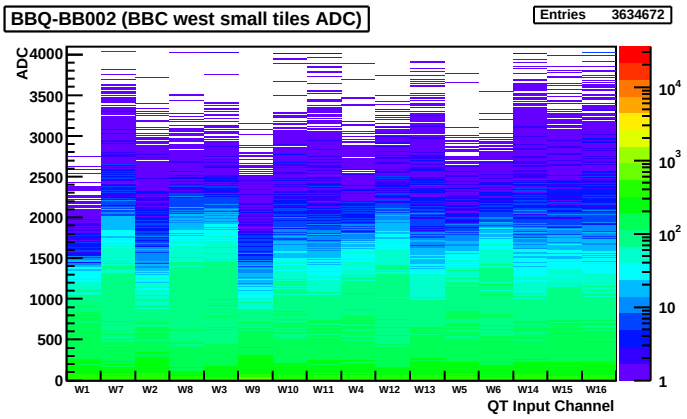

MIX-TF101
Entries 1363002
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

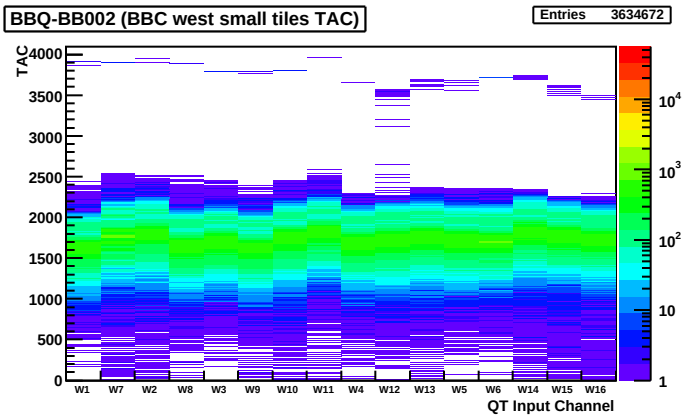

L1-TF201
Entries 227167
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

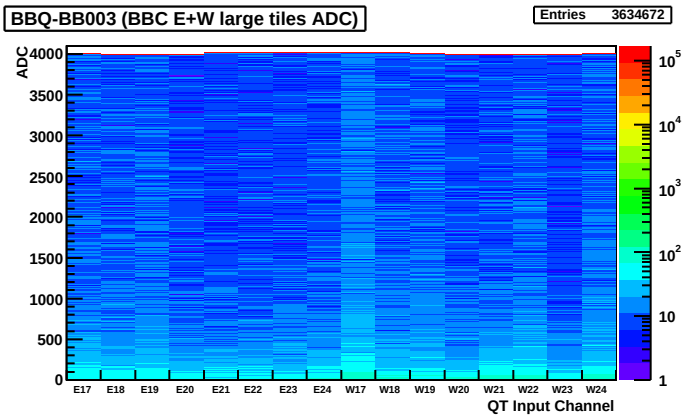

L1-TF201
Entries 1363002
Threshold bits
1
0
209266
209211
209119
209218
208810
208542
17901
17956
18048
17949
18357
18625
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

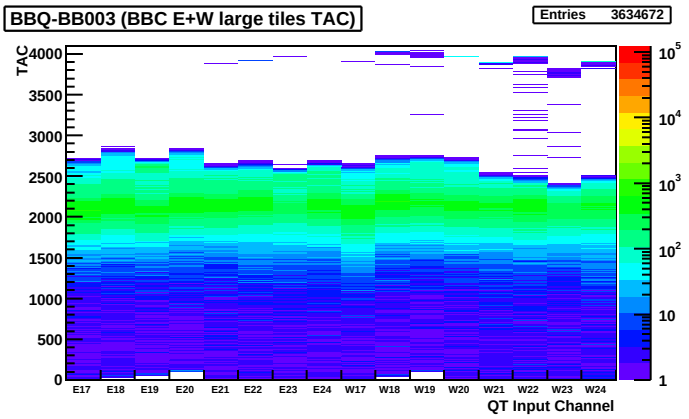

BBQ-BB001 (BBC east small tiles ADC)
Entries 3634672
ADC
QT Input Channel

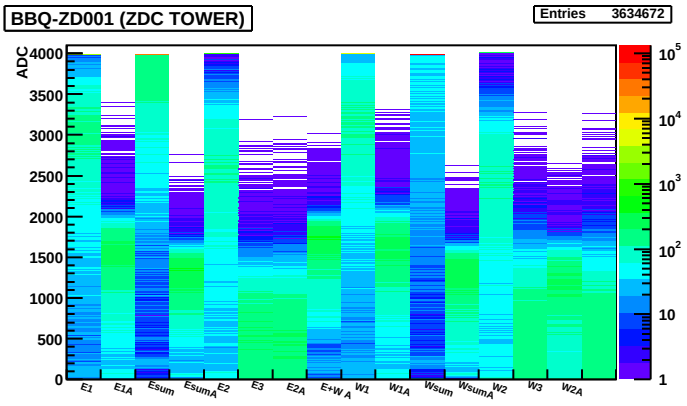

BBQ-BB001 (BBC east small tiles TAC)
Entries 3634672
TAC
QT Input Channel

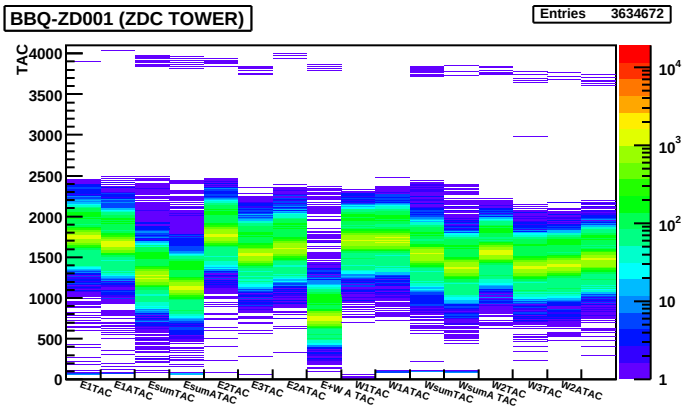

BBQ-BB002 (BBC west small tiles ADC)
Entries 3634672
ADC
QT Input Channel

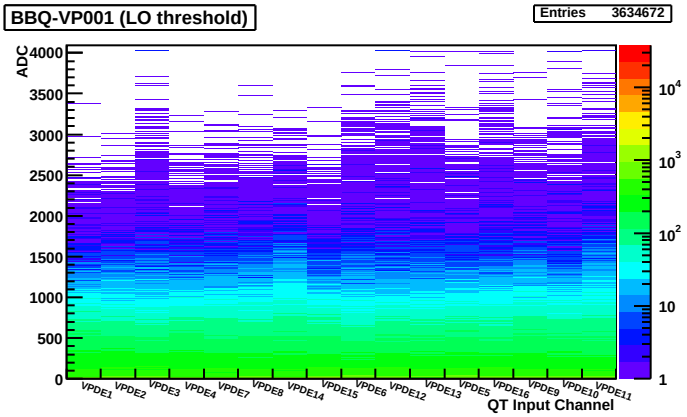

BBQ-BB002 (BBC west small tiles TAC)
Entries 3634672
TAC
QT Input Channel

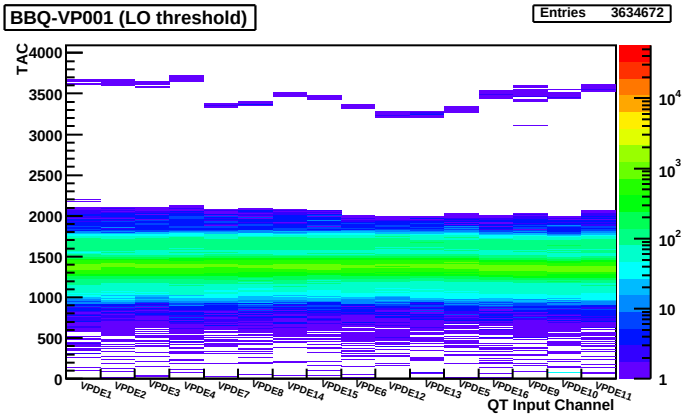

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3634672
ADC
QT Input Channel

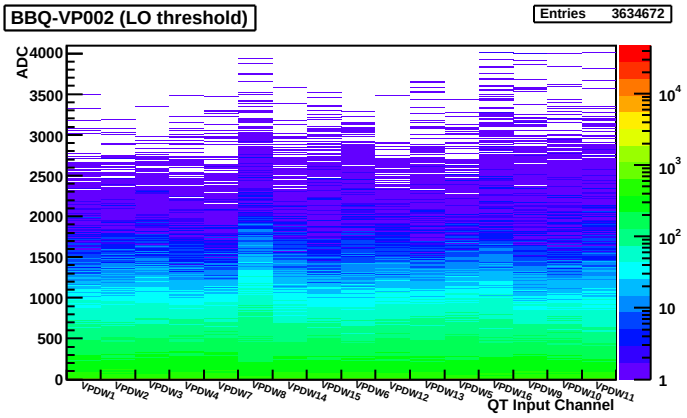

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3634672
TAC
QT Input Channel

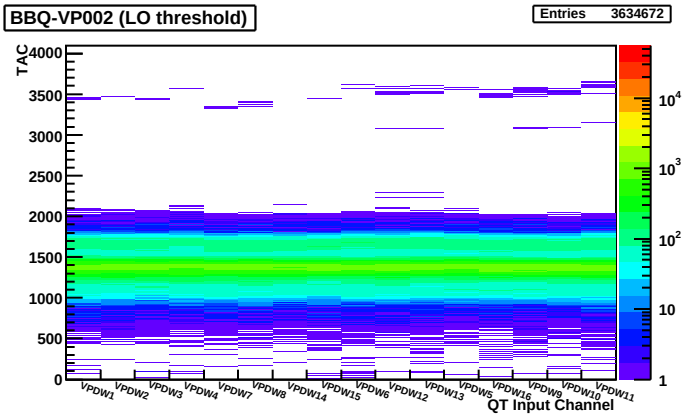

BBQ-ZD001 (ZDC TOWER)
Entries 3634672
ADC

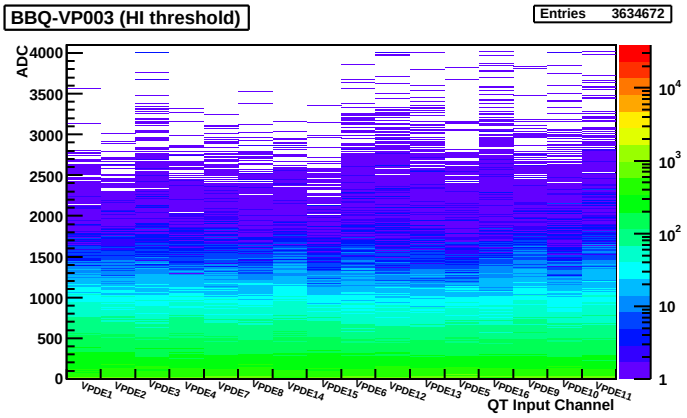

BBQ-ZD001 (ZDC TOWER)
Entries 3634672
TAC

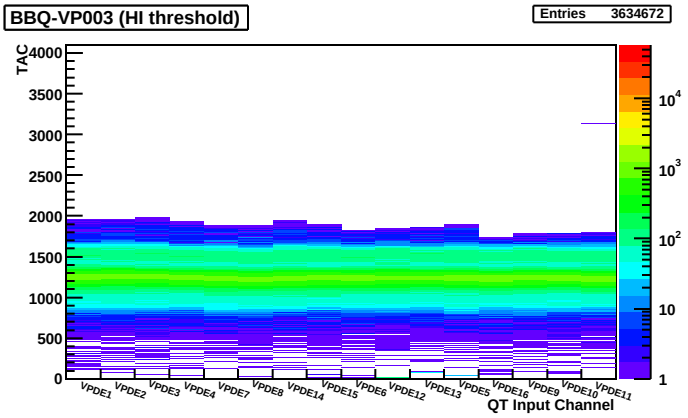

BBQ-VP001 (LO threshold)
Entries 3634672
ADC
QT Input Channel

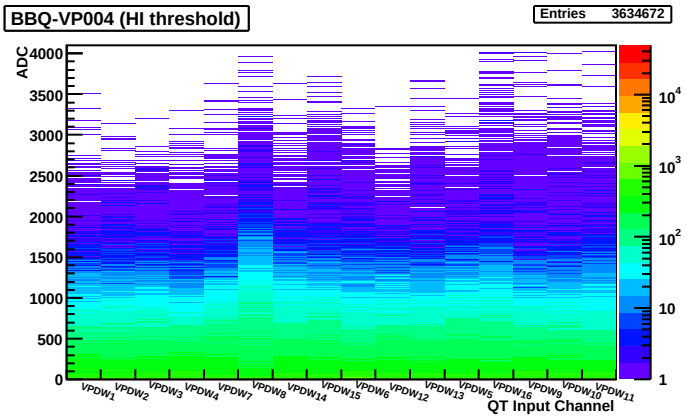

BBQ-VP001 (LO threshold)
Entries 3634672
TAC
QT Input Channel

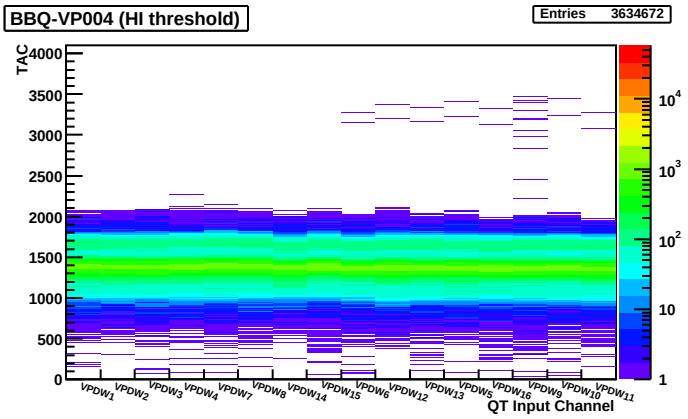

BBQ-VP002 (LO threshold)
Entries 3634672
ADC
QT Input Channel

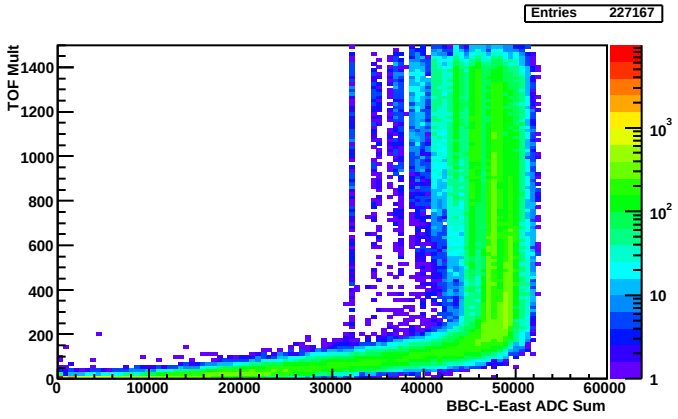

BBQ-VP002 (LO threshold)
Entries 3634672
TAC
QT Input Channel

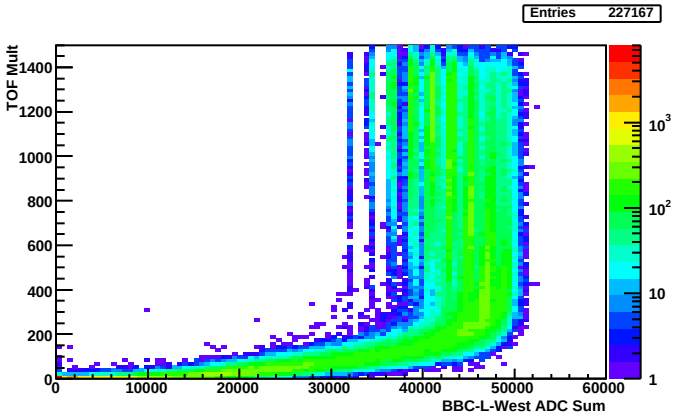

BBQ-VP003 (HI threshold)
Entries 3634672
ADC
QT Input Channel

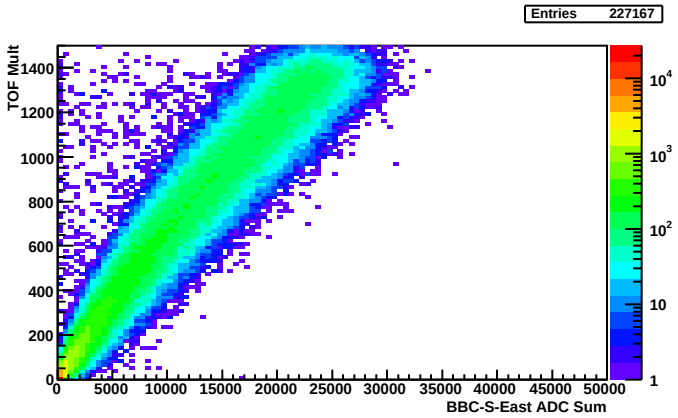

BBQ-VP003 (HI threshold)
Entries 3634672
TAC
QT Input Channel

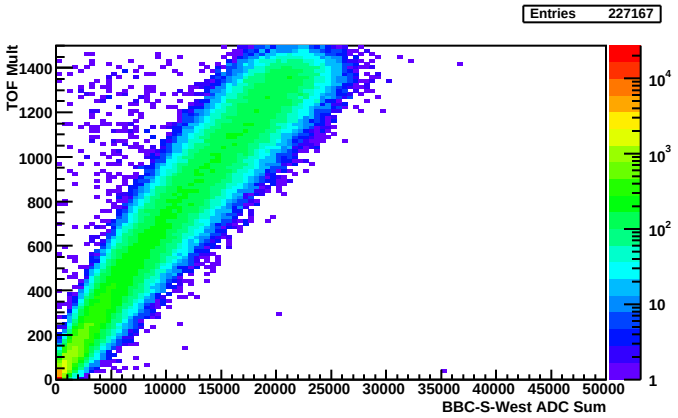

BBQ-VP004 (HI threshold)
Entries 3634672
ADC
QT Input Channel

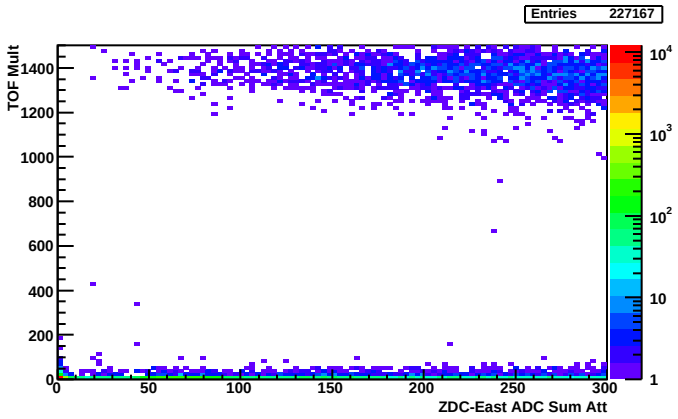

BBQ-VP004 (HI threshold)
Entries 3634672
TAC
QT Input Channel

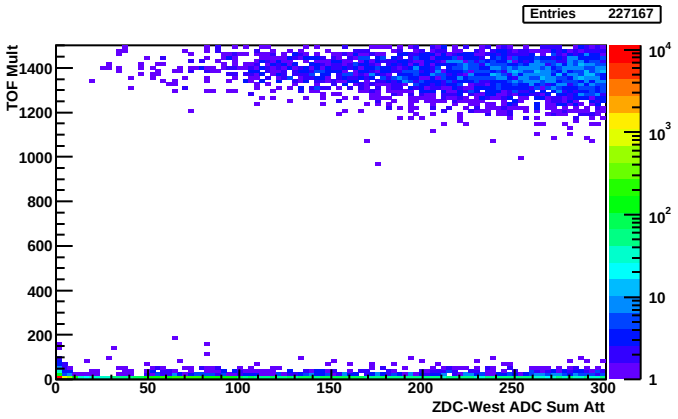

Entries 227167
TOF Mult
BBC-L-East ADC Sum

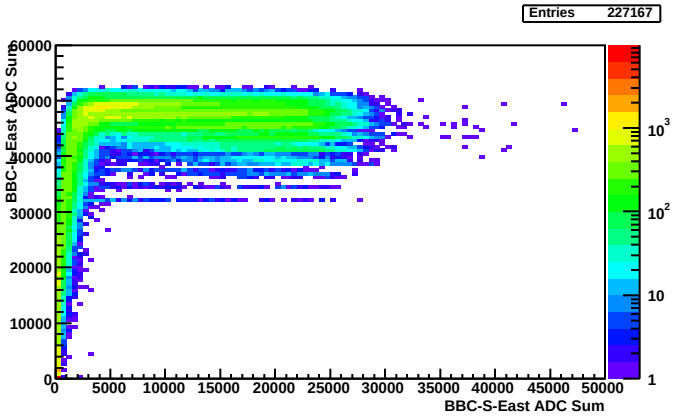

Entries 227167
TOF Mult
BBC-L-West ADC Sum

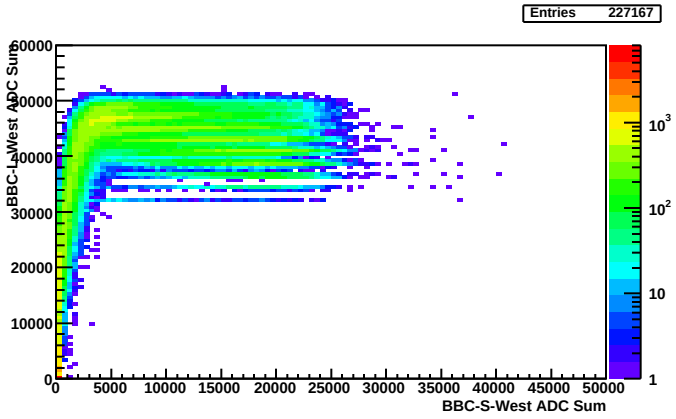

Entries 227167
TOF Mult
BBC-S-East ADC Sum

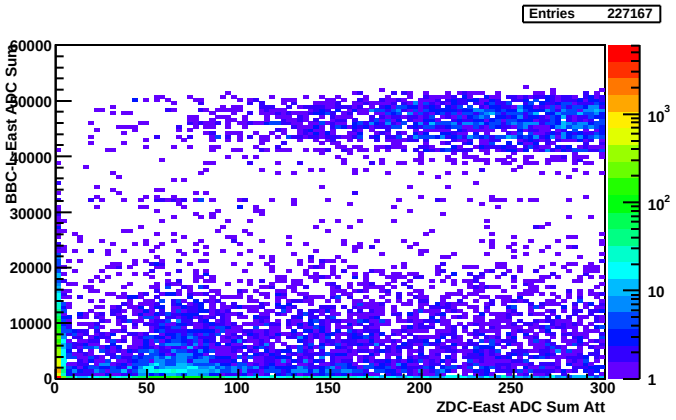

Entries 227167
TOF Mult
BBC-S-West ADC Sum

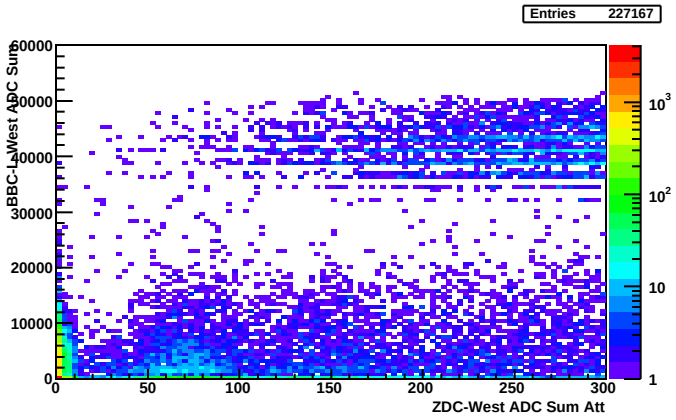

Entries 227167
TOF Mult
ZDC-East ADC Sum Att


Entries 227167
TOF Mult
ZDC-West ADC Sum Att


Entries 227167
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 227167
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 227167
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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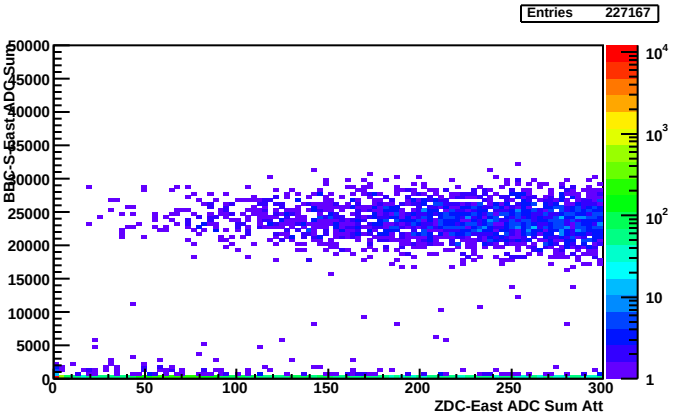
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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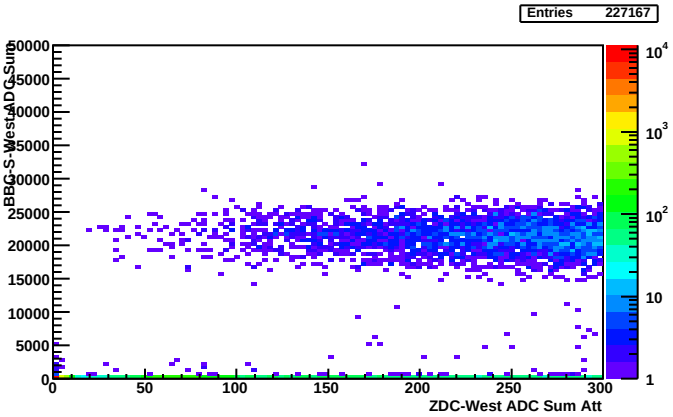
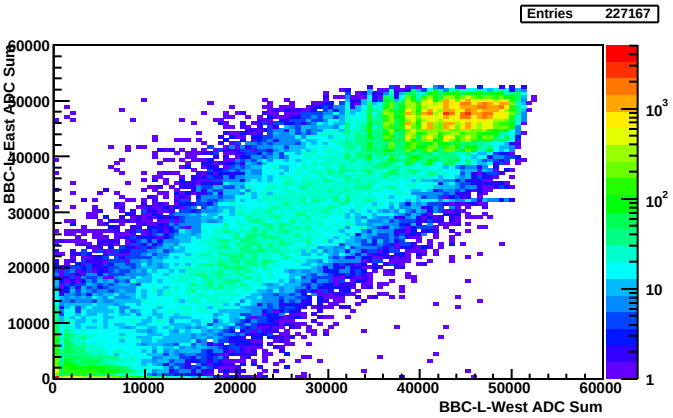
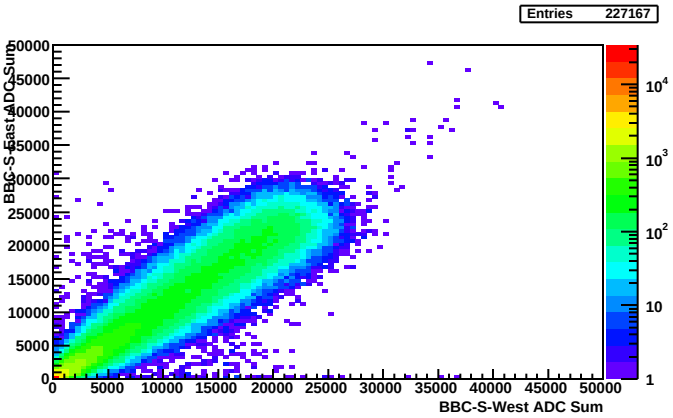
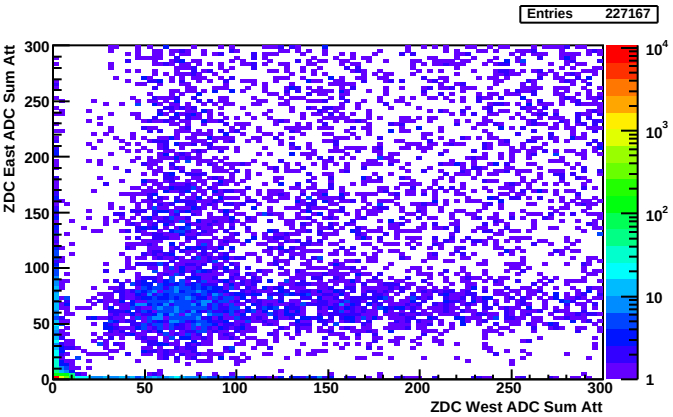
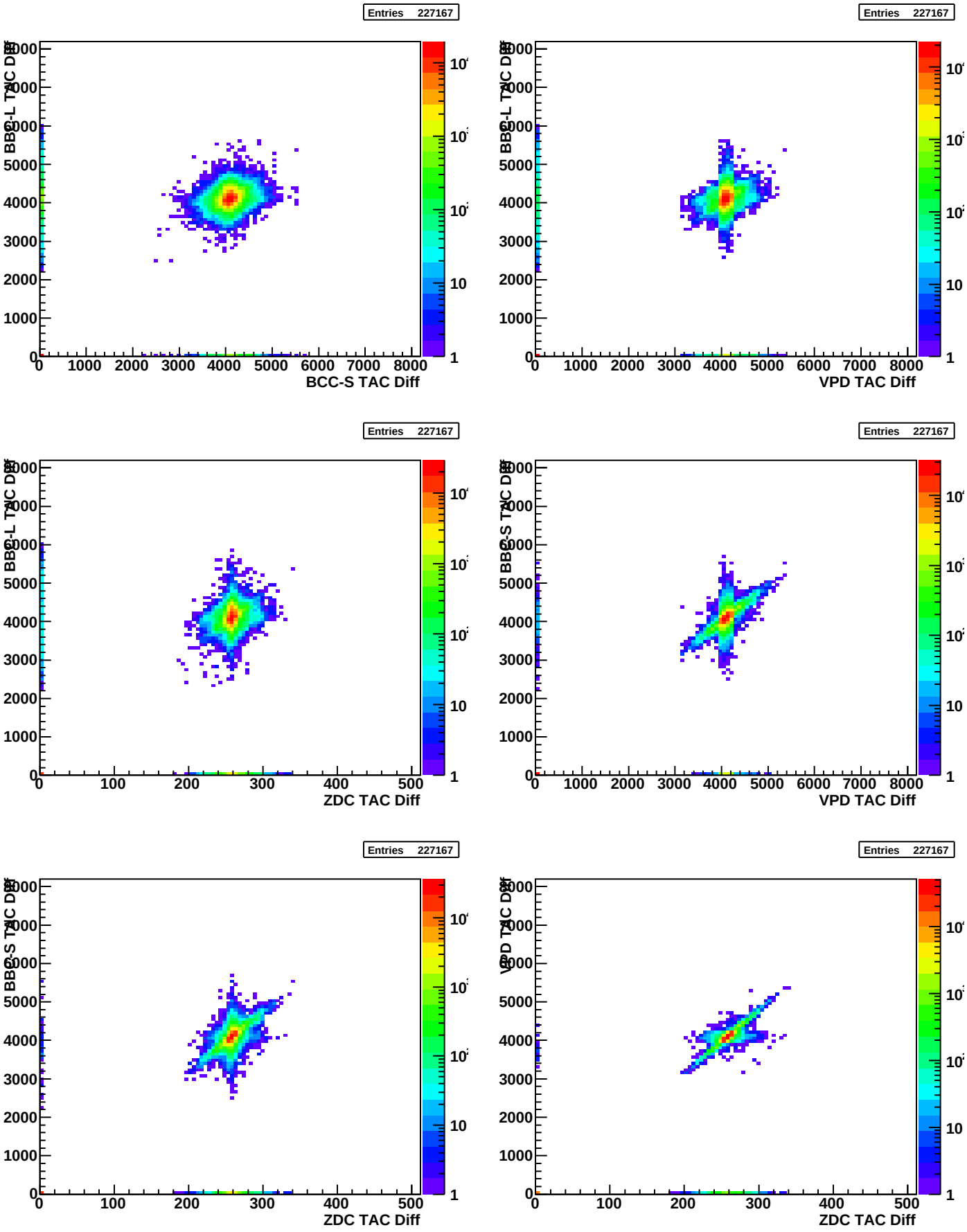
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

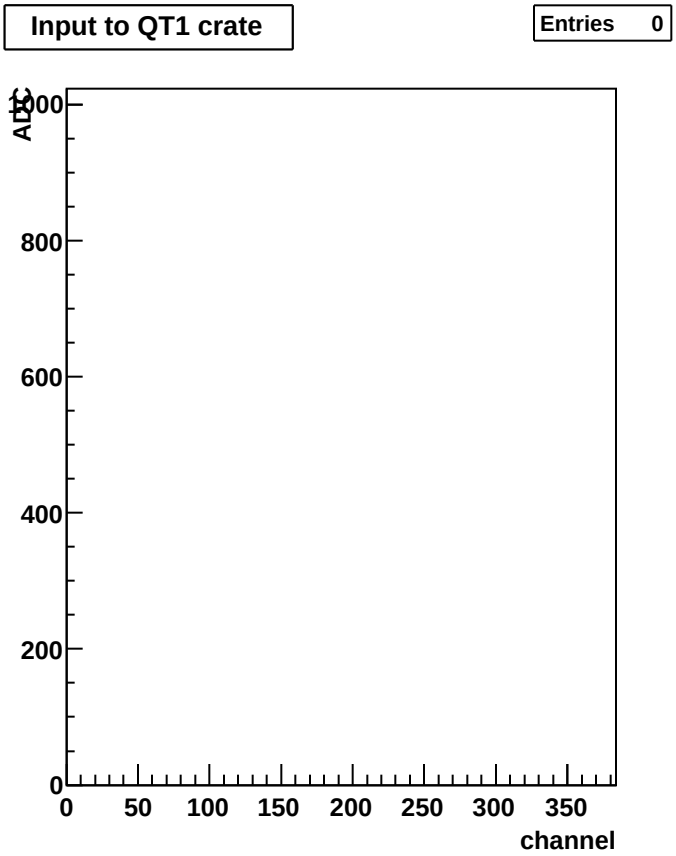

Entries 227167
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

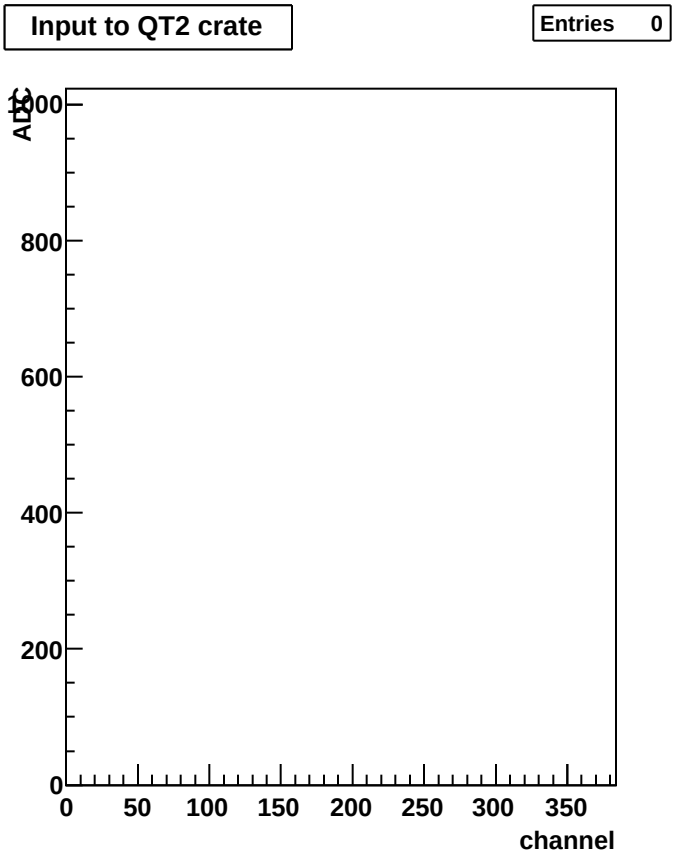

Entries 227167
BBC-L-East ADC Sum
BBC-L-West ADC Sum

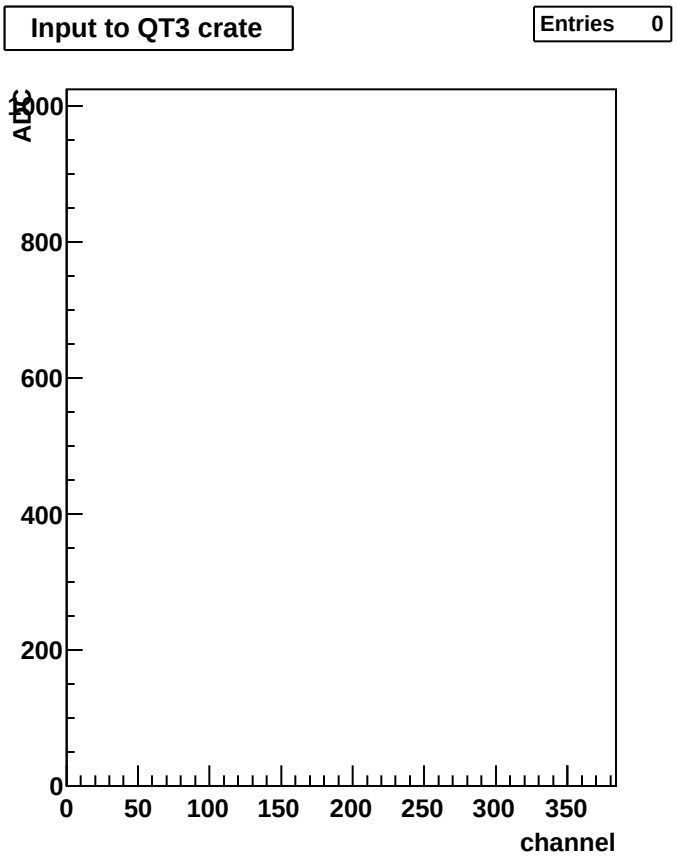

Entries 227167
BBC-S-East ADC Sum
BBC-S-West ADC Sum

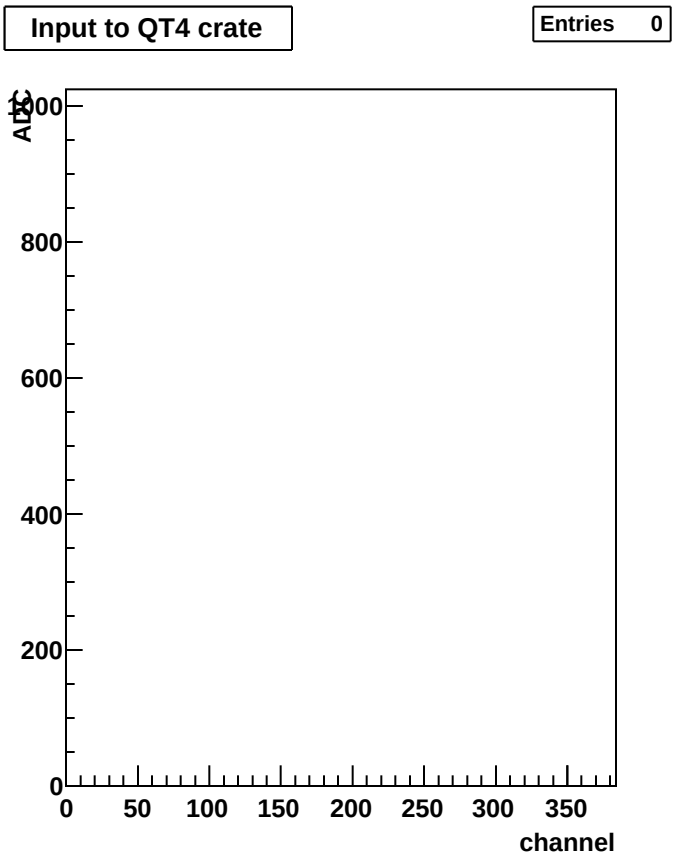

Entries 227167
ZDC East ADC Sum Att
ZDC West ADC Sum Att

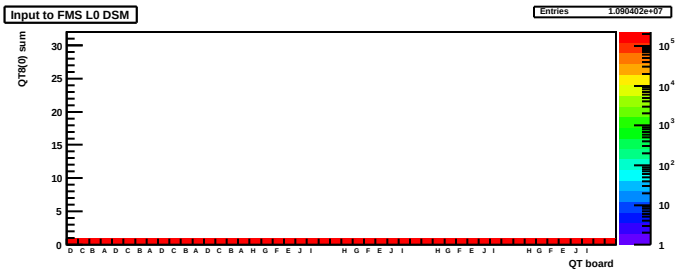

Entries 227167
BBC-L TAC Diff
BCC-S TAC Diff
Entries 227167
BBC-L TAC Diff
VPD TAC Diff
Entries 227167
BBC-L TAC Diff
ZDC TAC Diff
Entries 227167
BBC-S TAC Diff
VPD TAC Diff
Entries 227167
BBC-S TAC Diff
ZDC TAC Diff
Entries 227167
VPD TAC Diff
ZDC TAC Diff

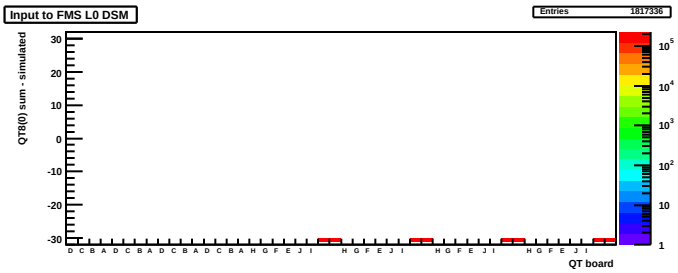

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

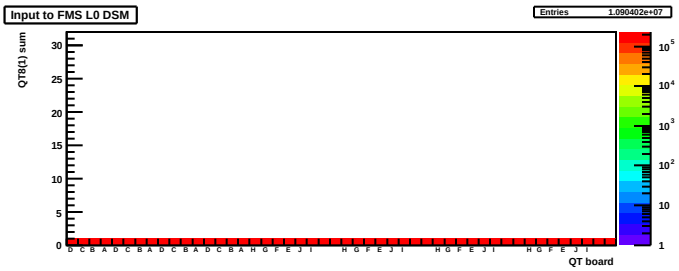

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

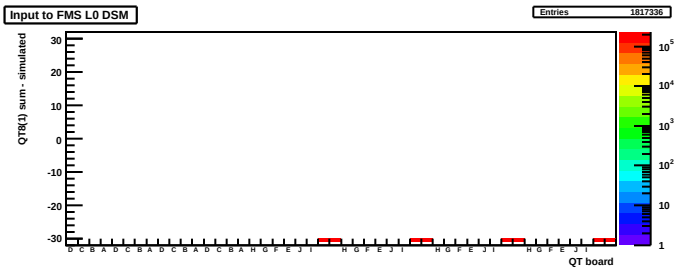

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

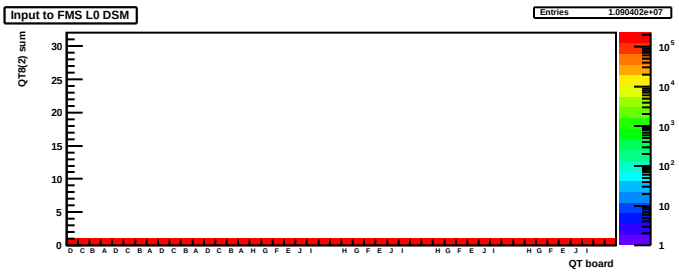

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

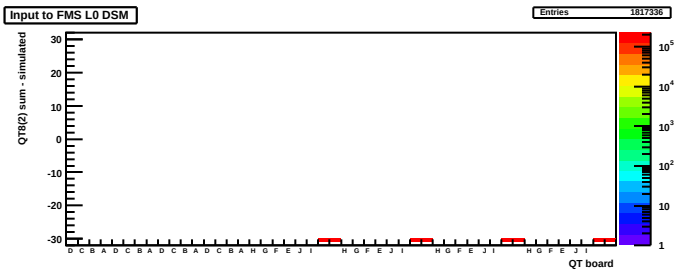

Input to FMS L0 DSM
Entries 1.090402e+07
QT8(0) sum
QT board

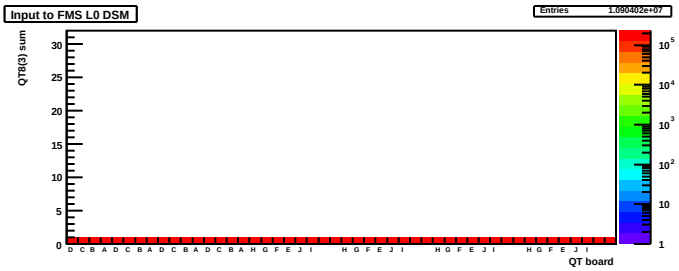

Input to FMS L0 DSM
Entries 1817336
QT8(0) sum - simulated
QT board

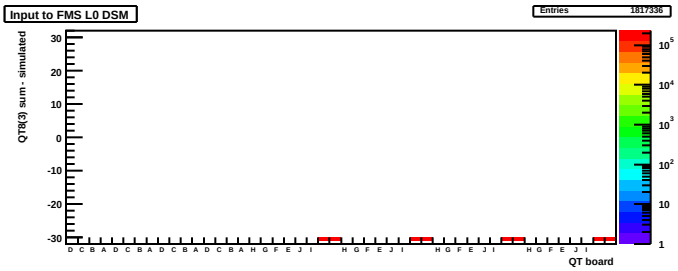

Input to FMS L0 DSM
Entries 1.090402e+07
QT8(1) sum
QT board

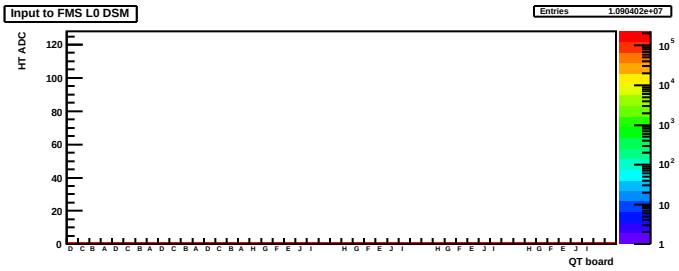

Input to FMS L0 DSM
Entries 1817336
QT8(1) sum - simulated
QT board

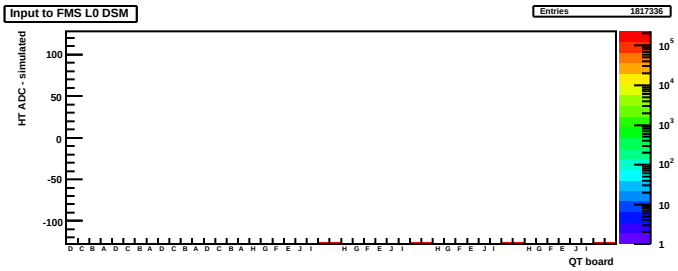

Input to FMS L0 DSM
Entries 1.090402e+07
QT8(2) sum
QT board

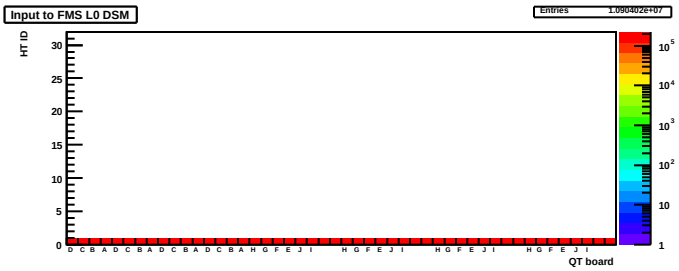

Input to FMS L0 DSM
Entries 1817336
QT8(2) sum - simulated
QT board

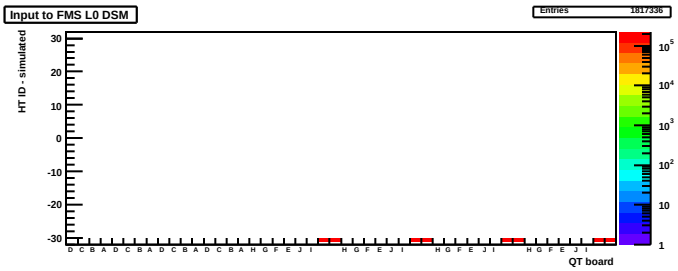

Input to FMS L0 DSM
Entries 1.090402e+07
QT8(3) sum
QT board

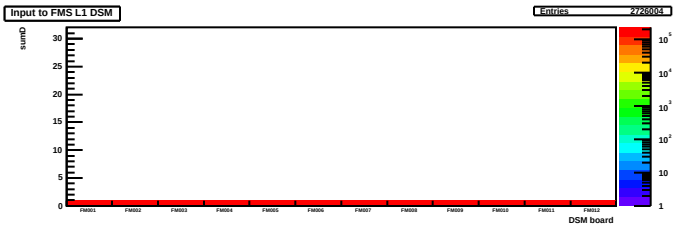

Input to FMS L0 DSM
Entries 1817336
QT8(3) sum - simulated
QT board

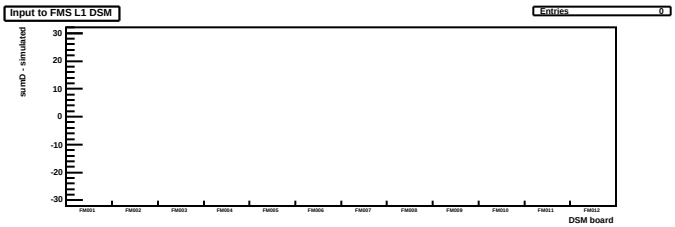

Input to FMS L0 DSM
Entries 1.090402e+07
HT ADC
QT board

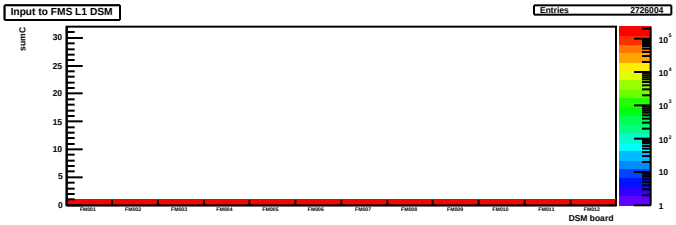

Input to FMS L0 DSM
Entries 1817336
HT ADC - simulated
QT board

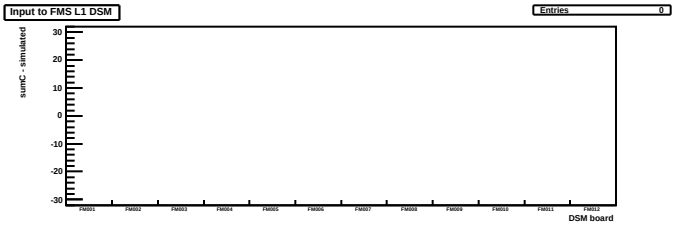

Input to FMS L0 DSM
Entries 1.090402e+07
HT ID
QT board

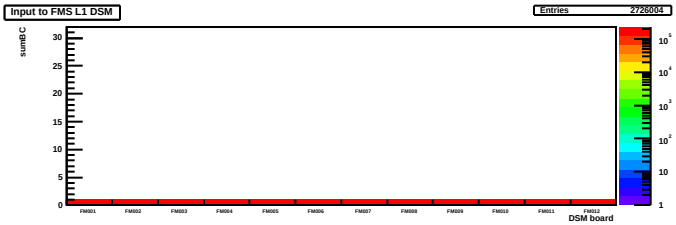

Input to FMS L0 DSM
Entries 1817336
HT ID - simulated
QT board

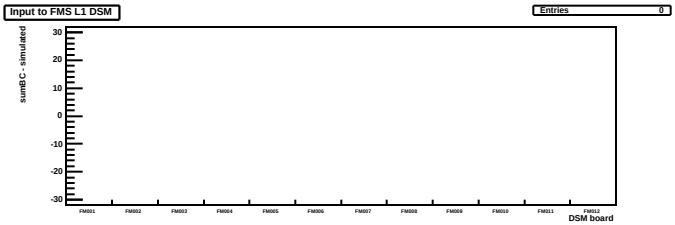

Input to FMS L1 DSM
Entries 2726004
sumD
DSM board

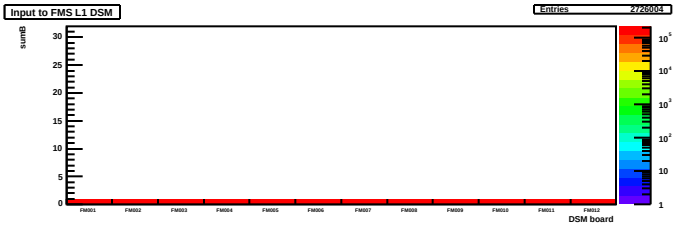

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

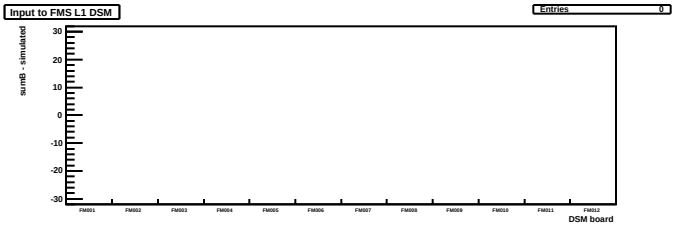

Input to FMS L1 DSM
Entries 2726004
sumC
DSM board

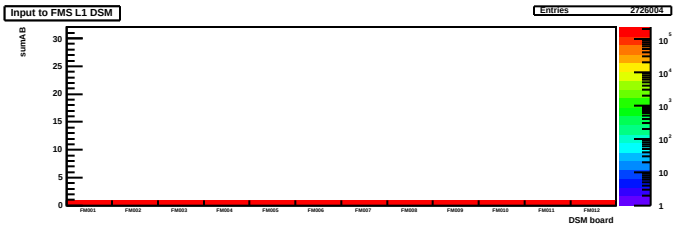

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

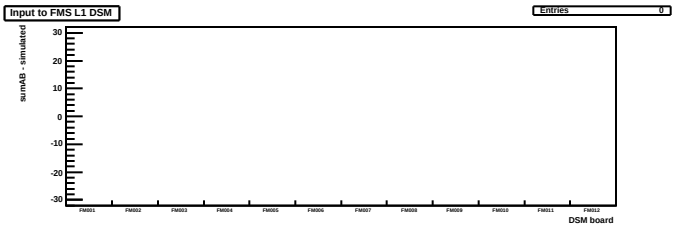

Input to FMS L1 DSM
Entries 2726004
sumBC
DSM board

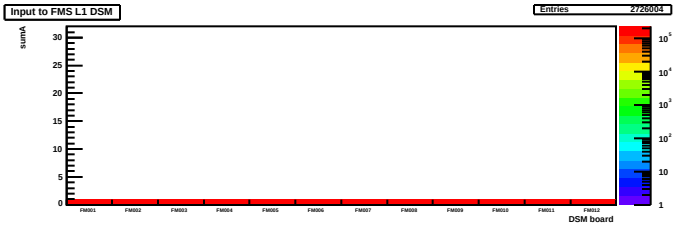

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

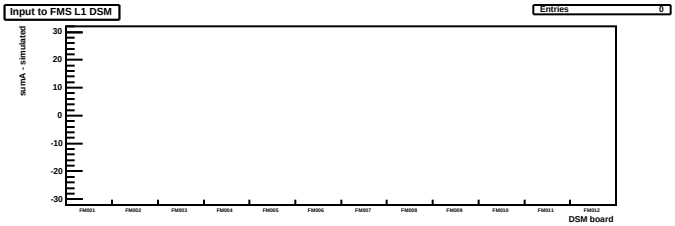

Input to FMS L1 DSM
Entries 2726004
sumB
DSM board

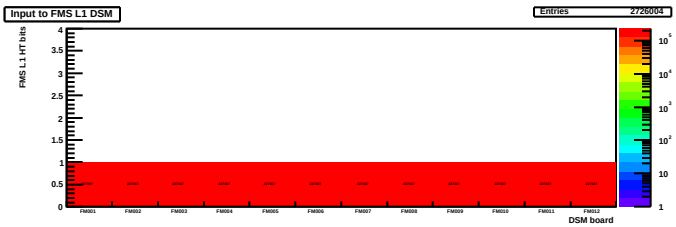

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

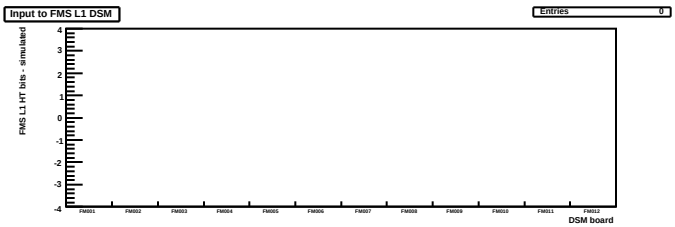

Input to FMS L1 DSM
Entries 2726004
sumAB
DSM board

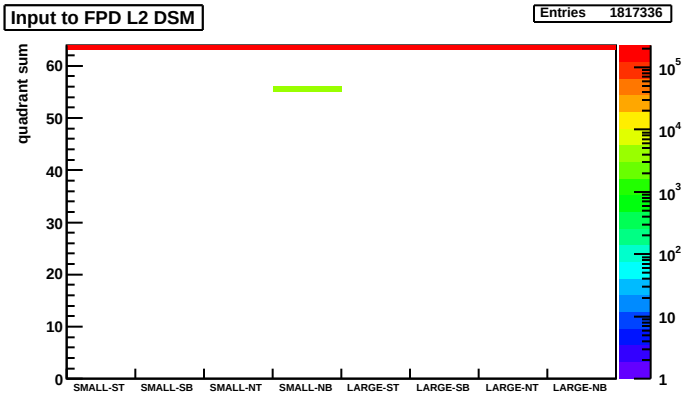

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

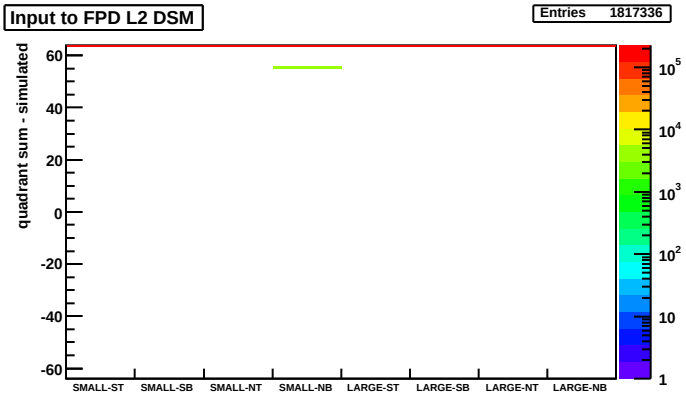

Input to FMS L1 DSM
Entries 2726004
sumA
DSM board

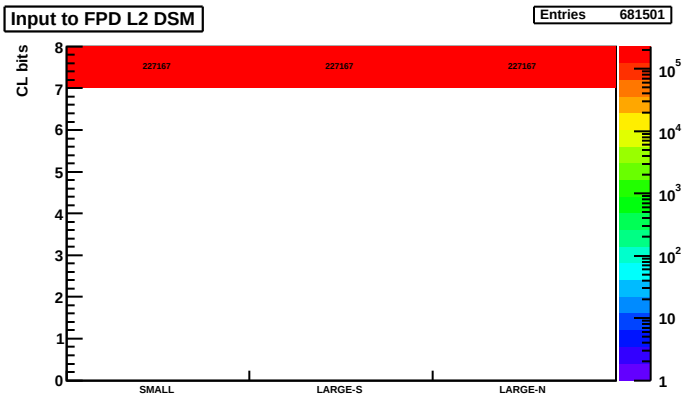

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

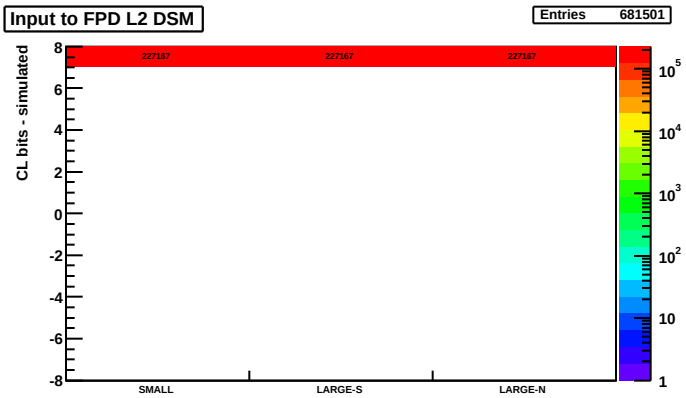

Input to FMS L1 DSM
Entries 2726004
FMS L1 HT bits
DSM board

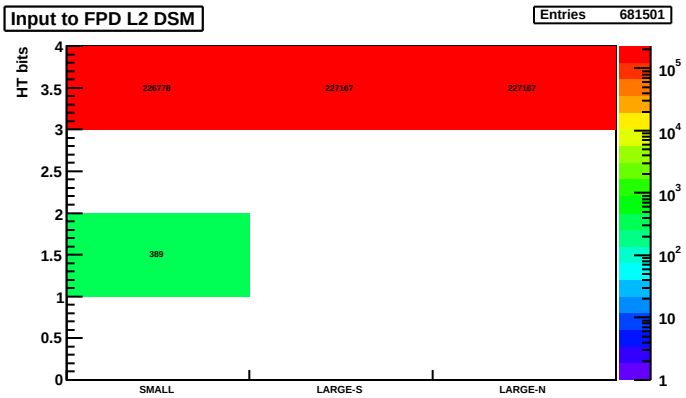

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

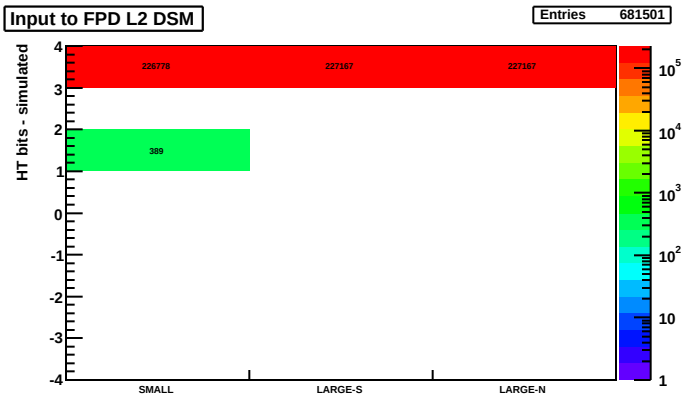

Input to FPD L2 DSM
Entries 1817336
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

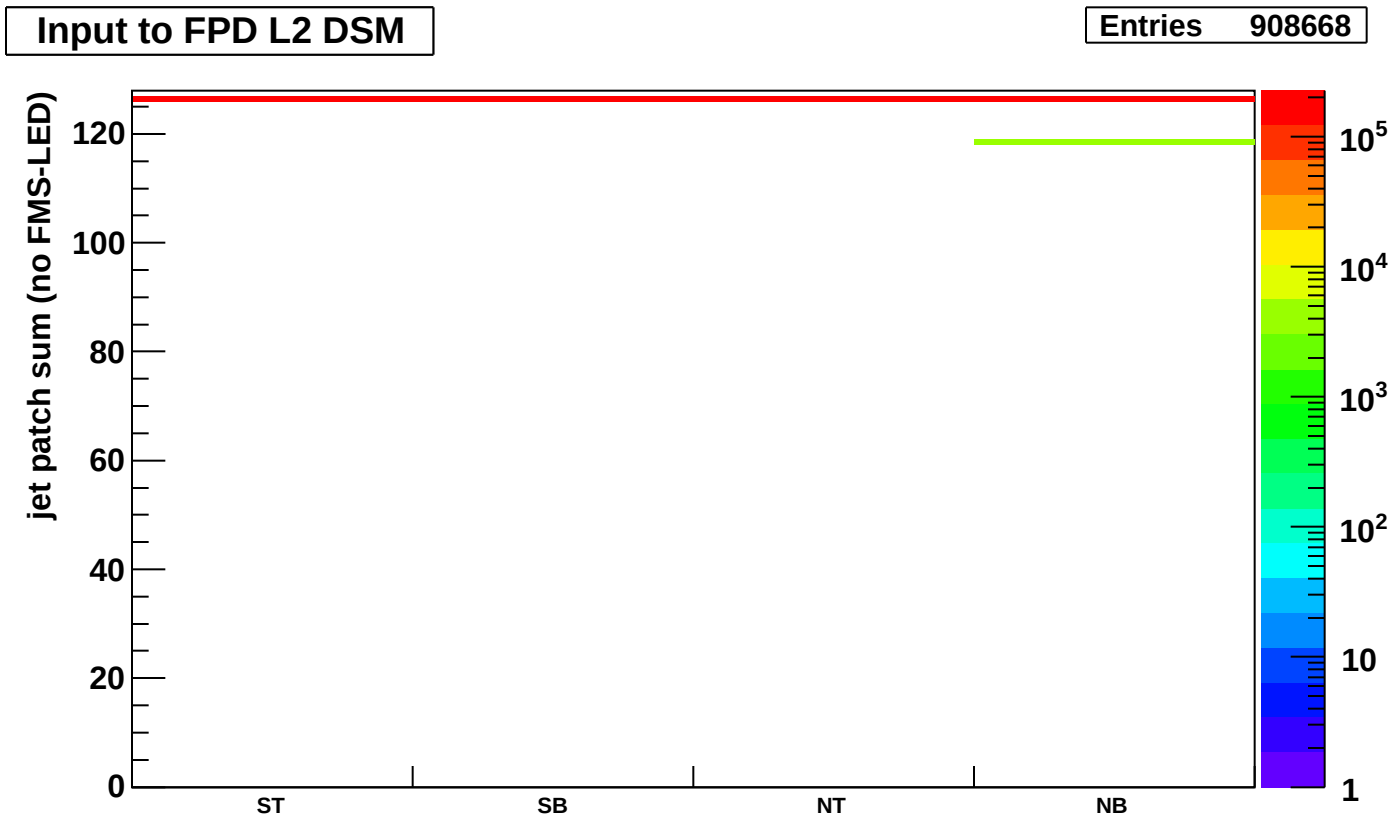

Input to FPD L2 DSM
Entries 1817336
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

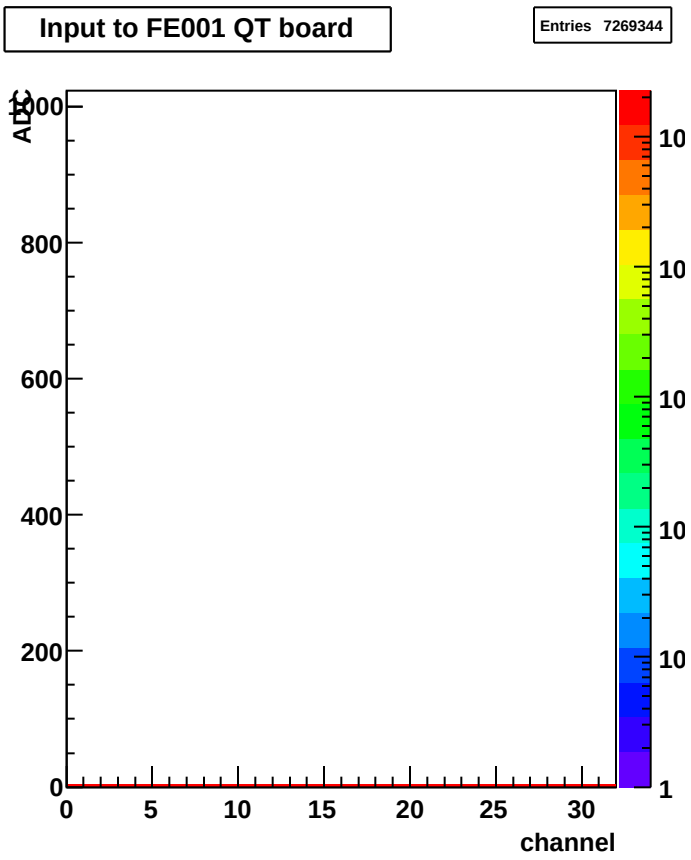

Input to FPD L2 DSM
Entries 681501
CL bits
227167
227167
227167
SMALL
LARGE-S
LARGE-N

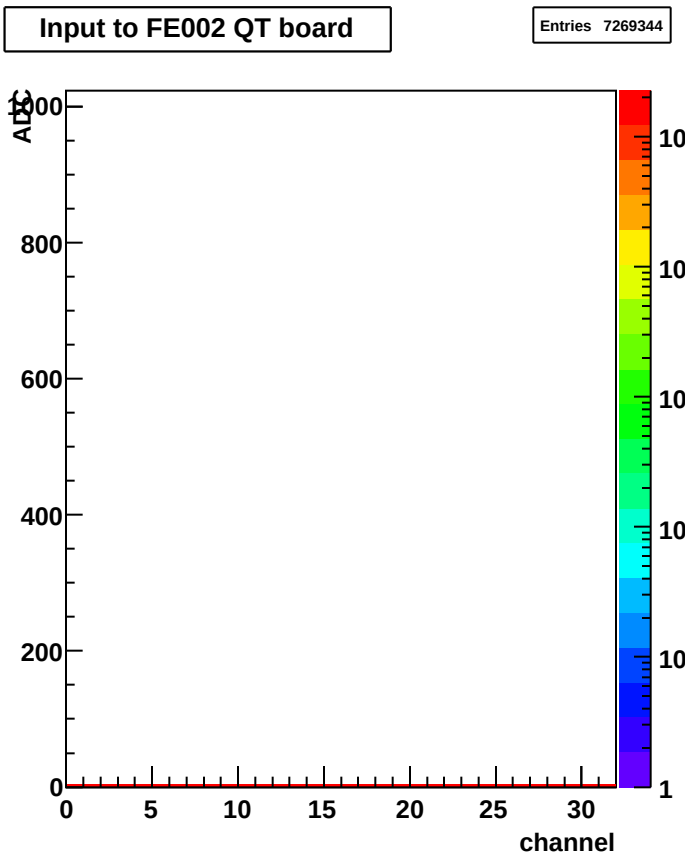

Input to FPD L2 DSM
Entries 681501
CL bits - simulated
227167
227167
227167
SMALL
LARGE-S
LARGE-N

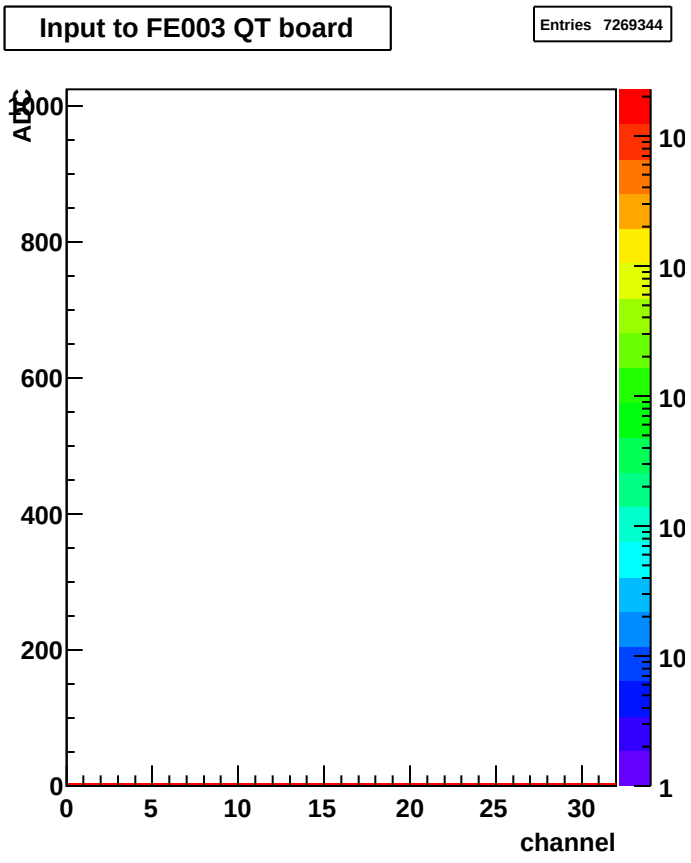

Input to FPD L2 DSM
Entries 681501
HT bits
226778
227167
227167
389
SMALL
LARGE-S
LARGE-N

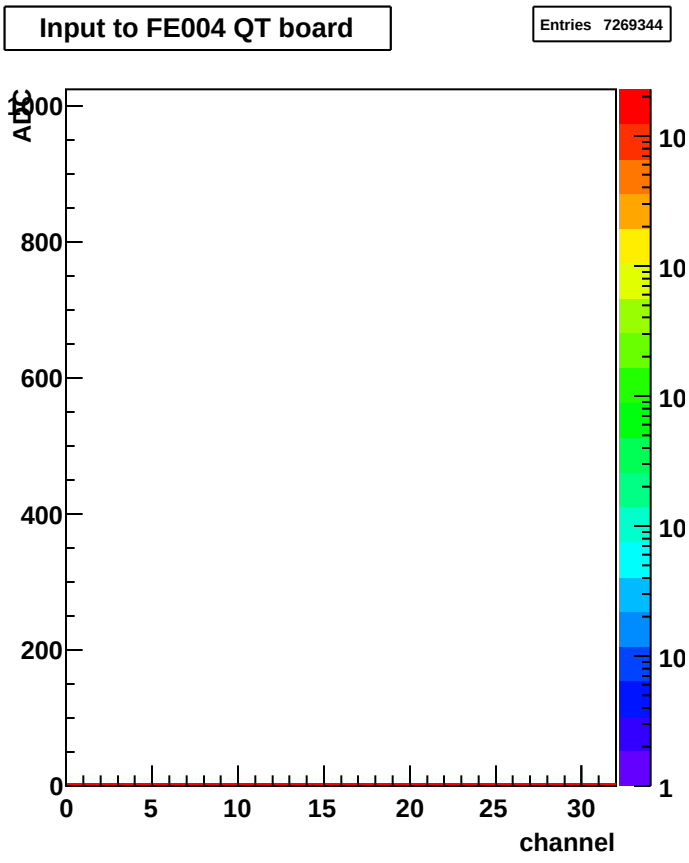

Input to FPD L2 DSM
Entries 681501
HT bits - simulated
226778
227167
227167
389
SMALL
LARGE-S
LARGE-N

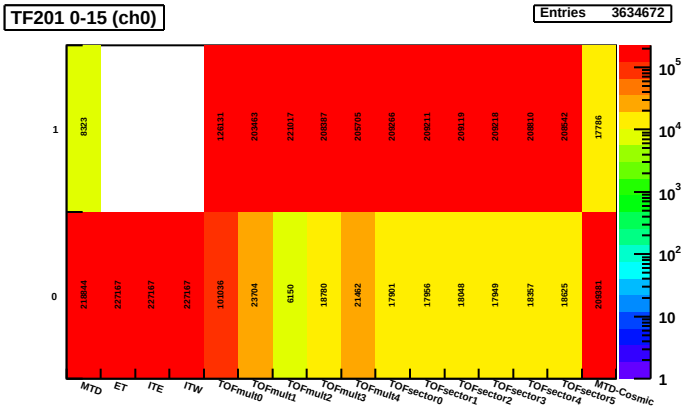

Input to FPD L2 DSM
Entries 908668
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

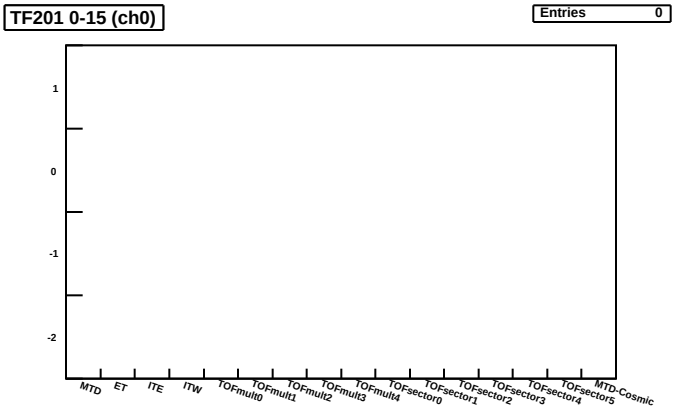

Input to FE001 QT board
Entries 7269344
ADC
channel

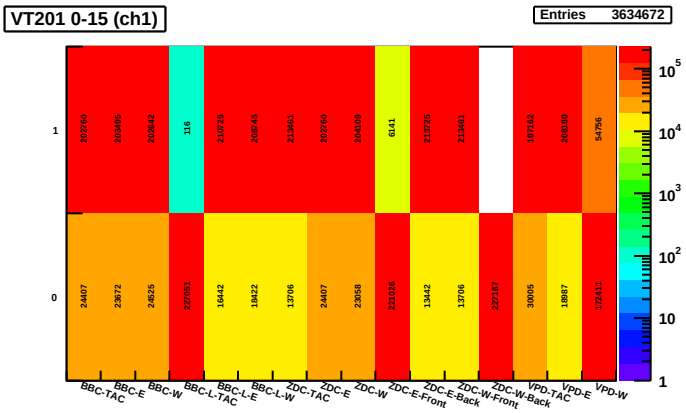

Input to FE002 QT board
Entries 7269344
ADC
channel

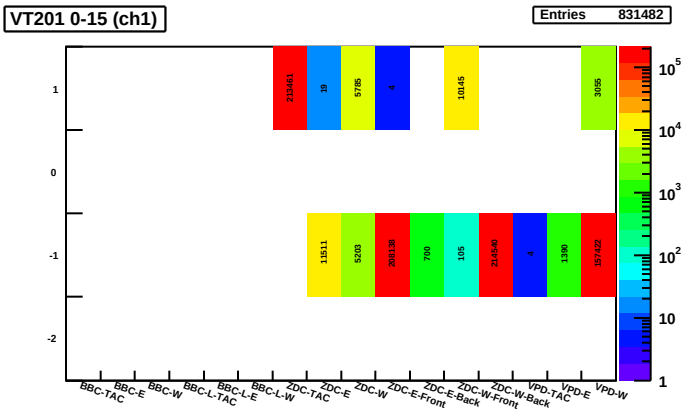

Input to FE003 QT board
Entries 7269344
ADC
channel

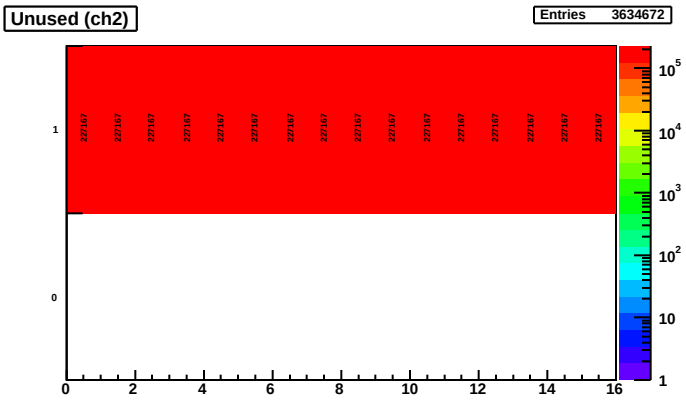

Input to FE004 QT board
Entries 7269344
ADC
channel

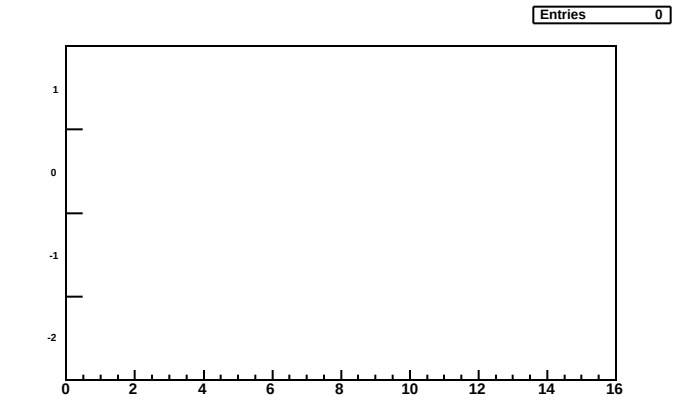

TF201 0-15 (ch0)
Entries 3634672
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

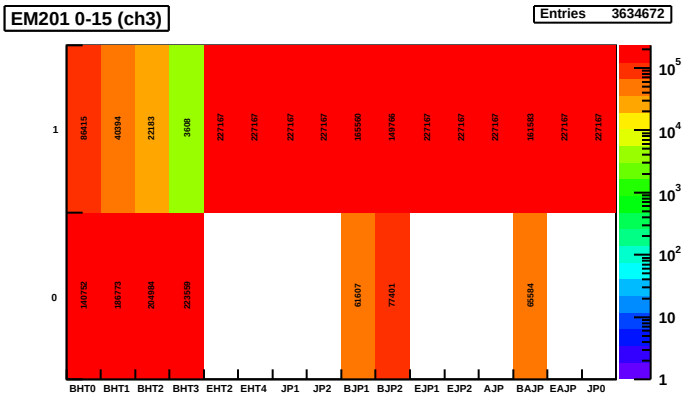

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

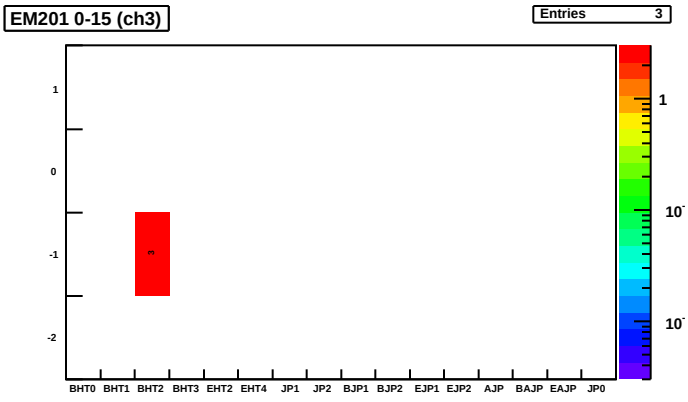

VT201 0-15 (ch1)
Entries 3634672
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 831482
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

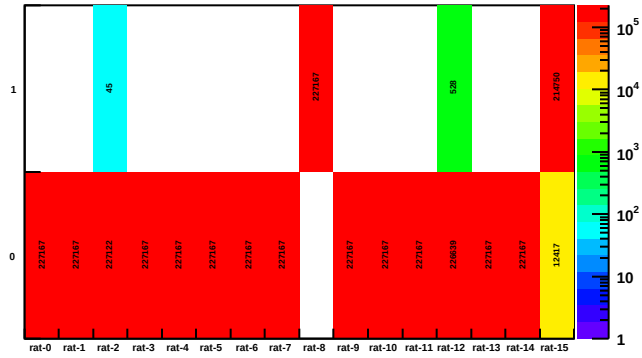

Unused (ch2)
Entries 3634672

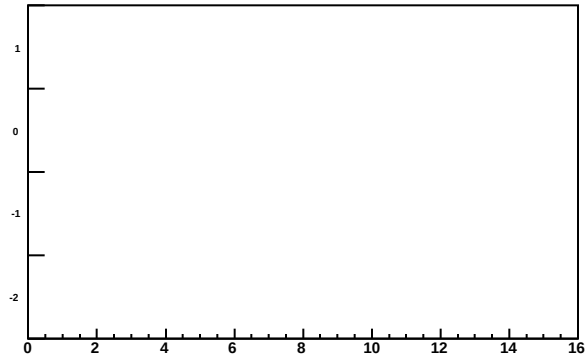

Entries 0


EM201 0-15 (ch3)
Entries 3634672
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

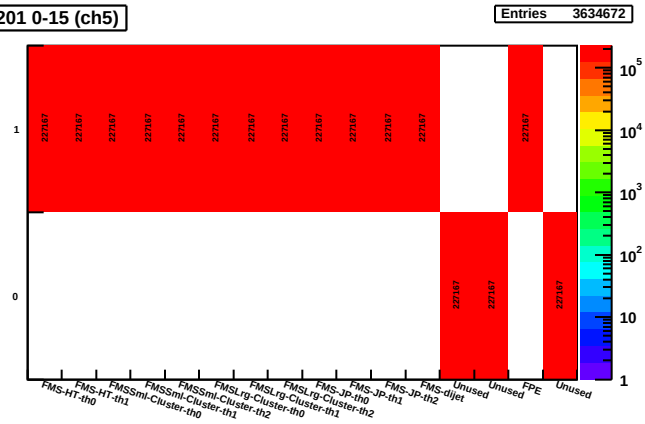

EM201 0-15 (ch3)
Entries 3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

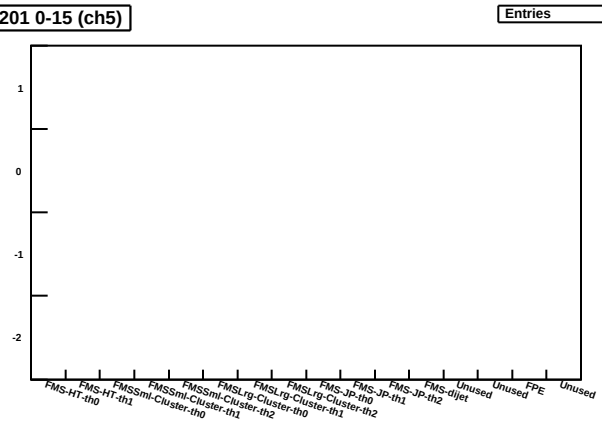




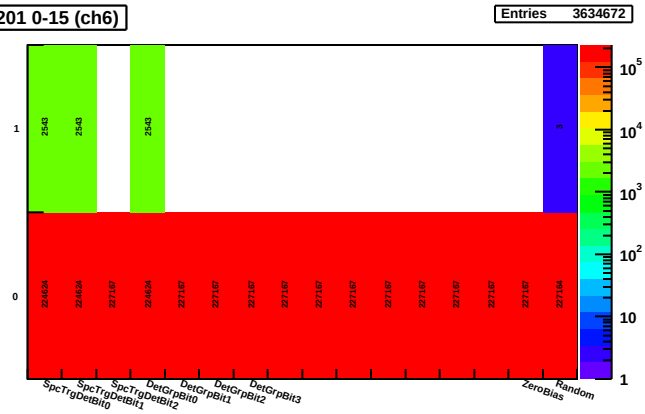
FP201 0-15 (ch5)

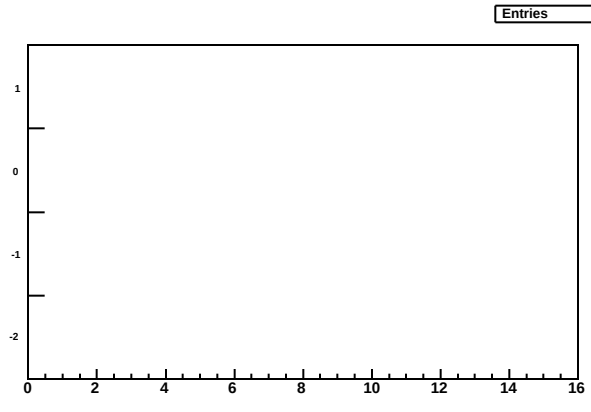
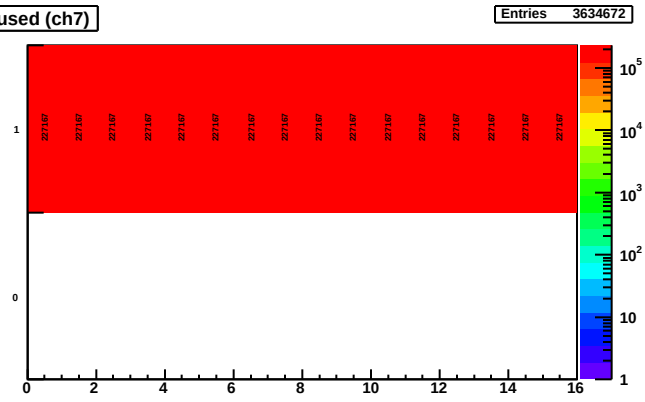
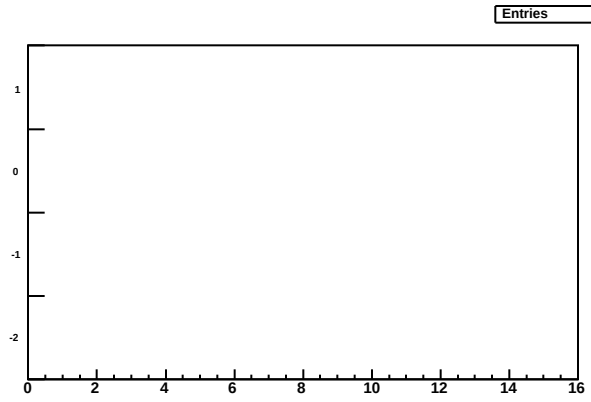


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)