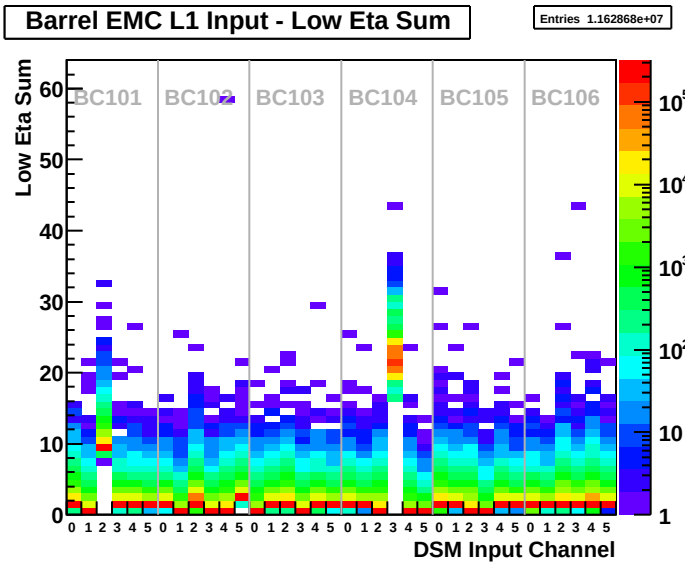
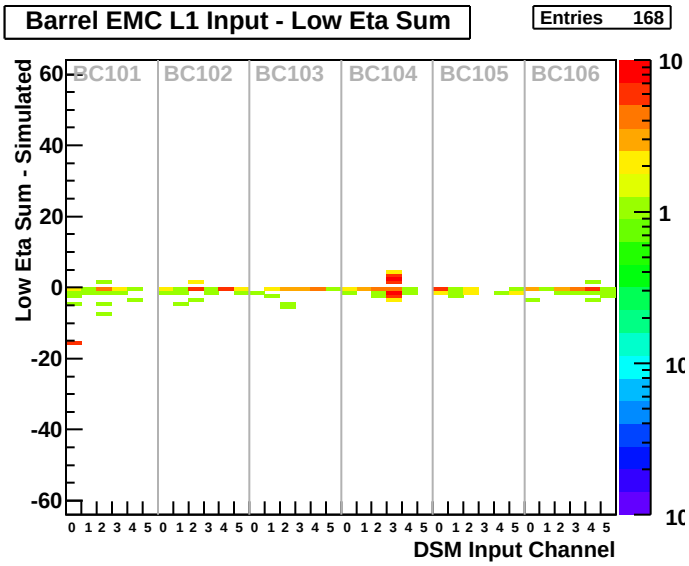
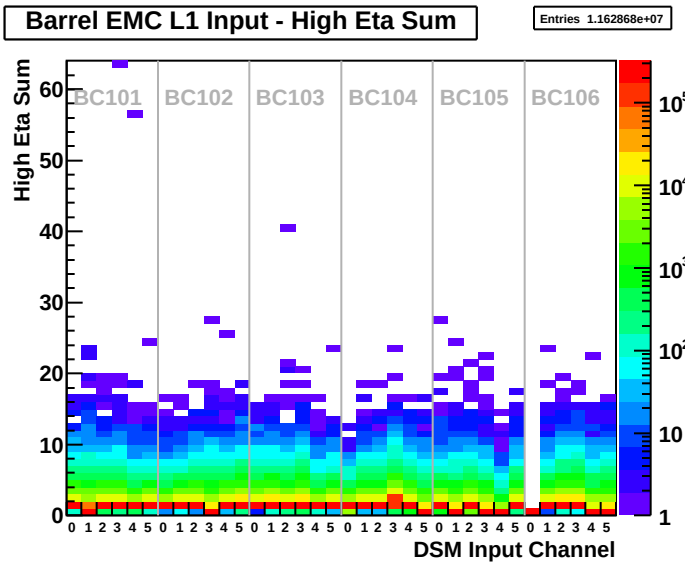
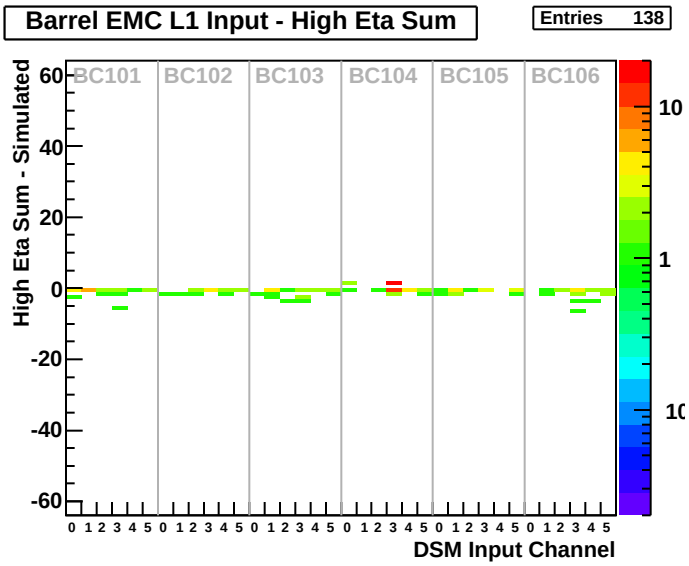
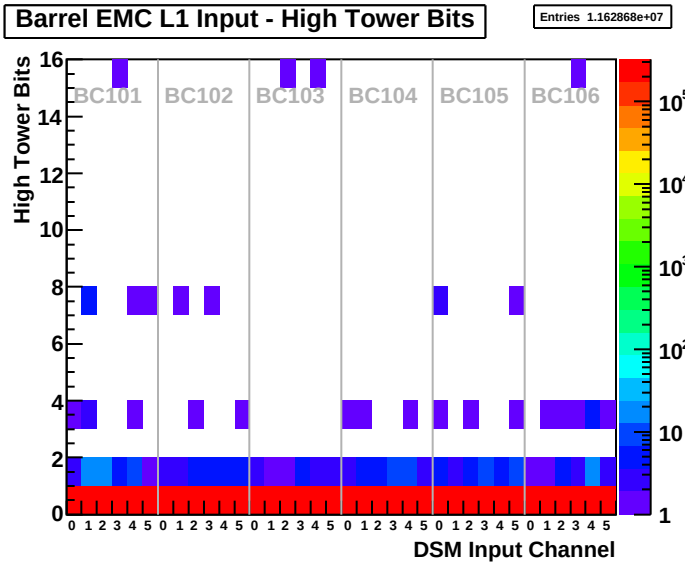
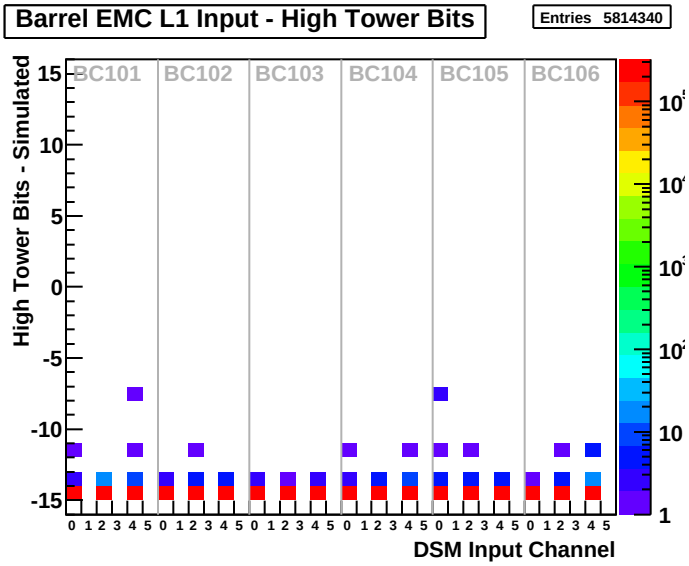

Barrel EMC L1 Input - Low Eta Sum
Entries 1.162868e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

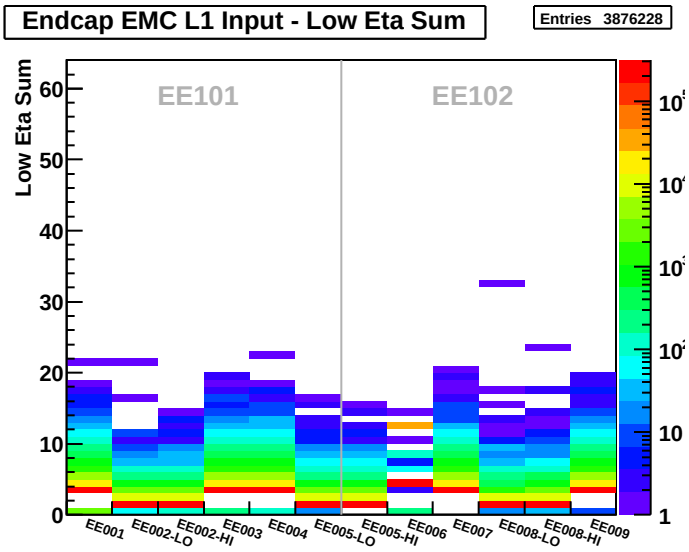

Barrel EMC L1 Input - Low Eta Sum
Entries 168
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

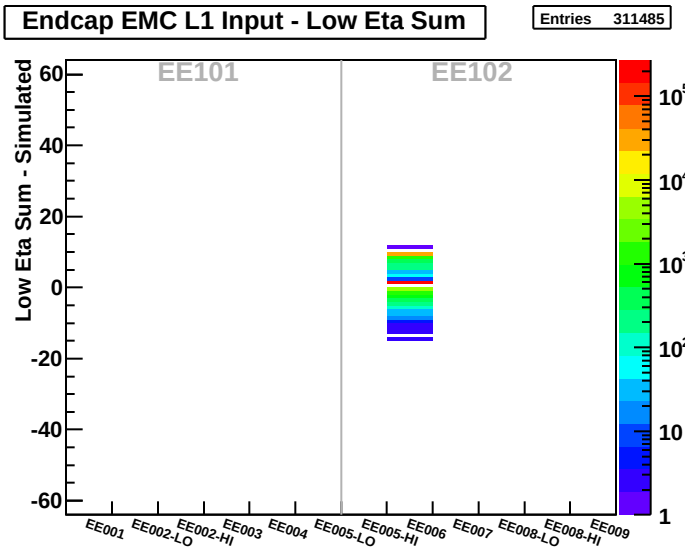

Barrel EMC L1 Input - High Eta Sum
Entries 1.162868e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

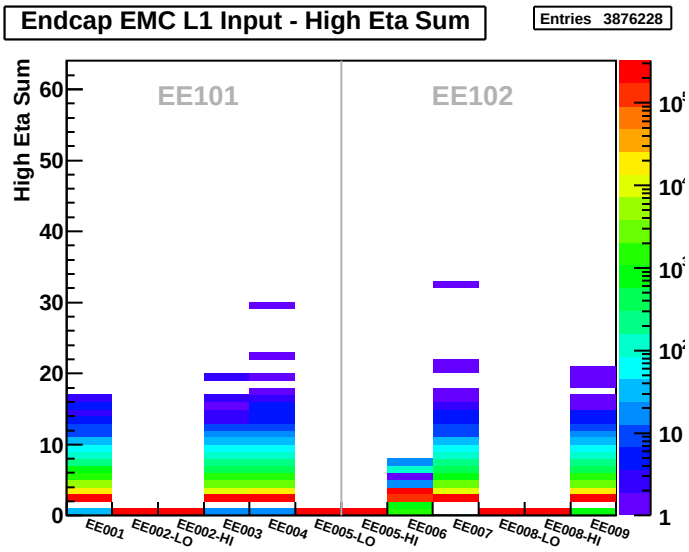

Barrel EMC L1 Input - High Eta Sum
Entries 138
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

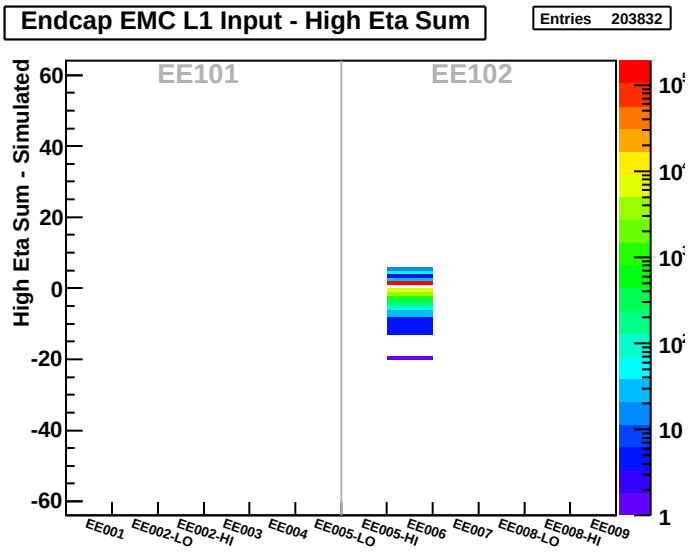

Barrel EMC L1 Input - High Tower Bits
Entries 1.162868e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

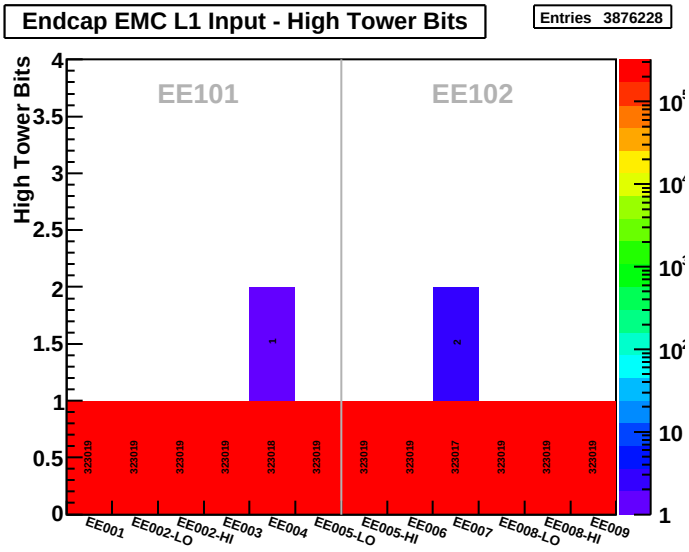

Barrel EMC L1 Input - High Tower Bits
Entries 5814340
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

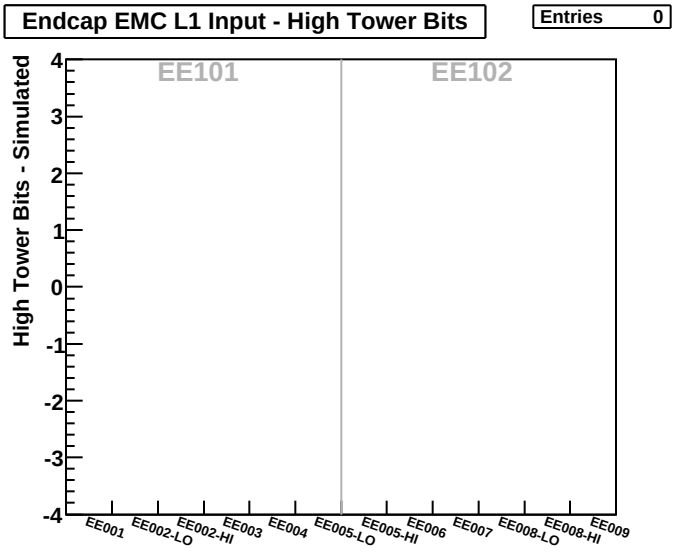

Endcap EMC L1 Input - Low Eta Sum
Entries 3876228
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

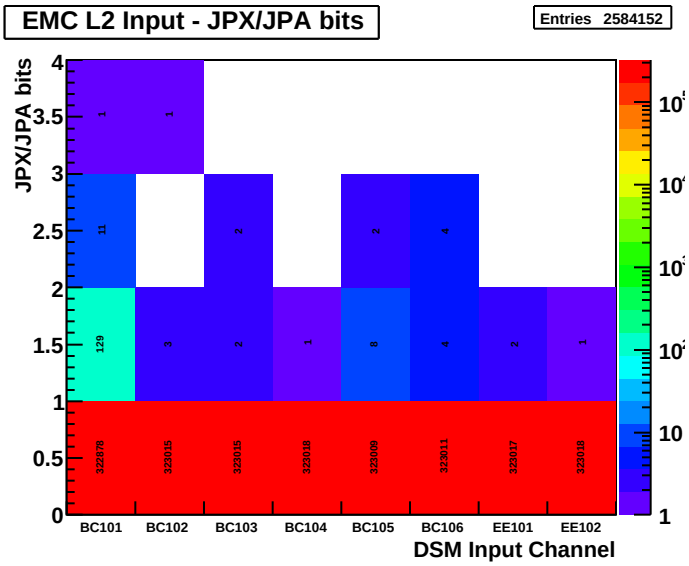

Endcap EMC L1 Input - Low Eta Sum
Entries 311485
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

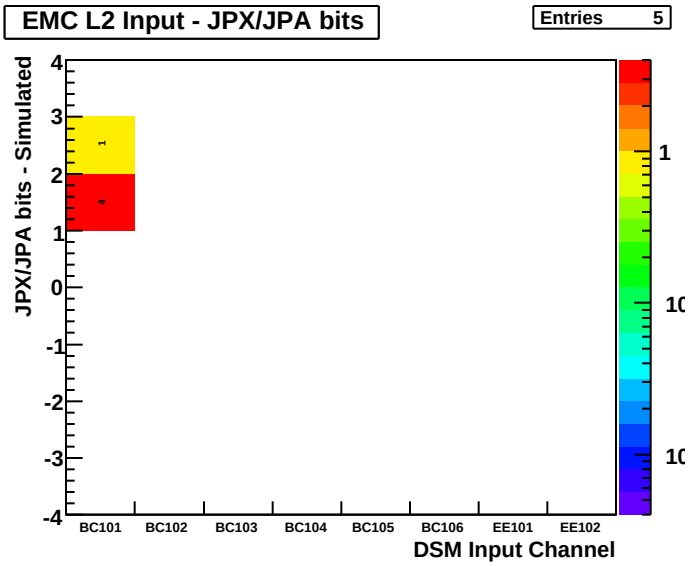

Endcap EMC L1 Input - High Eta Sum
Entries 3876228
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

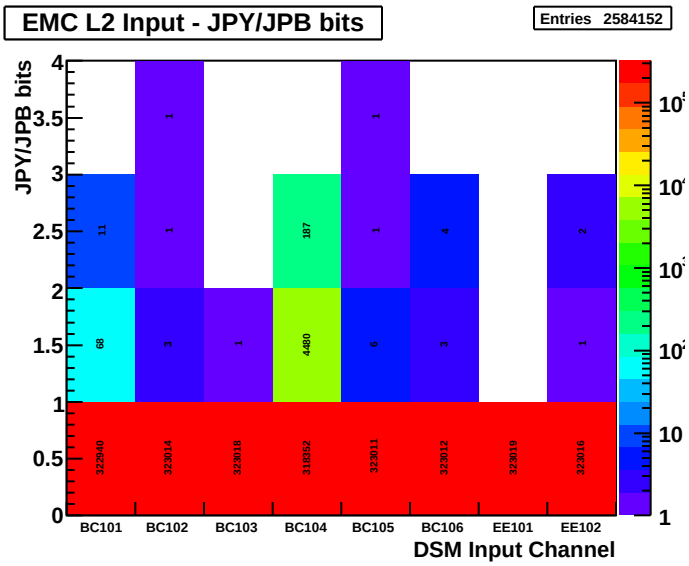

Endcap EMC L1 Input - High Eta Sum
Entries 203832
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

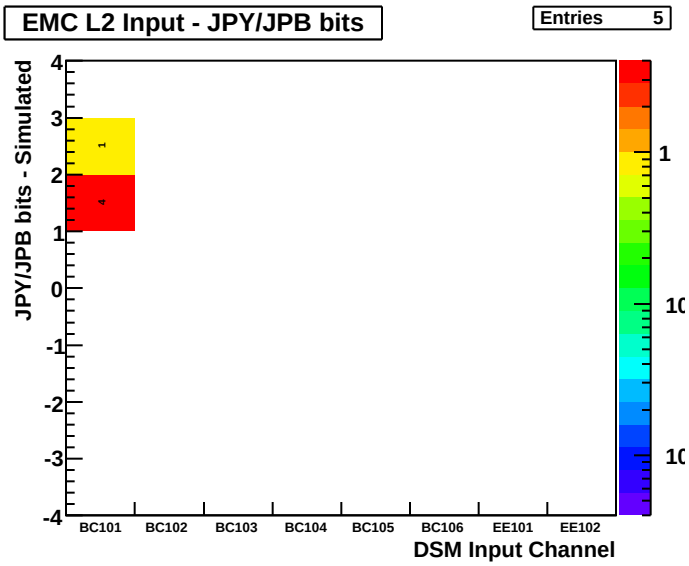

Endcap EMC L1 Input - High Tower Bits
Entries 3876228
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

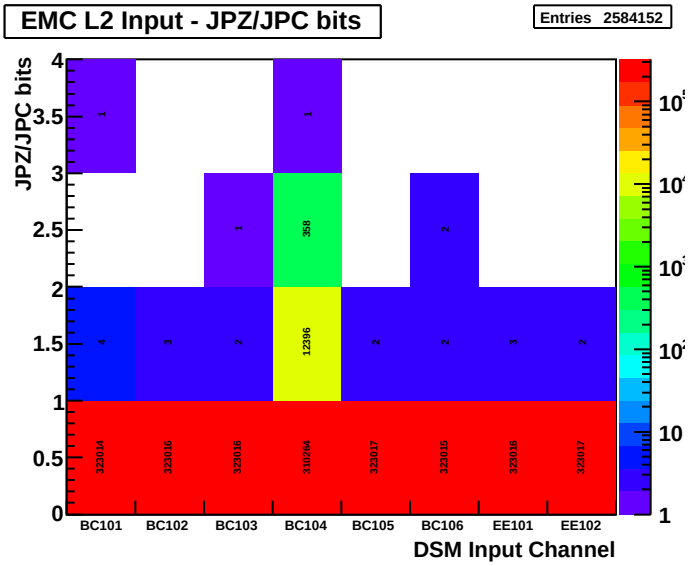

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

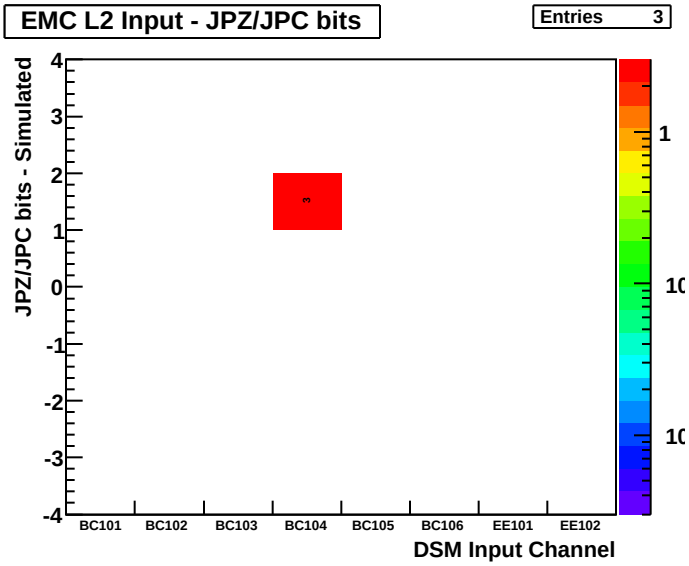

EMC L2 Input - JPX/JPA bits
Entries 2584152
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

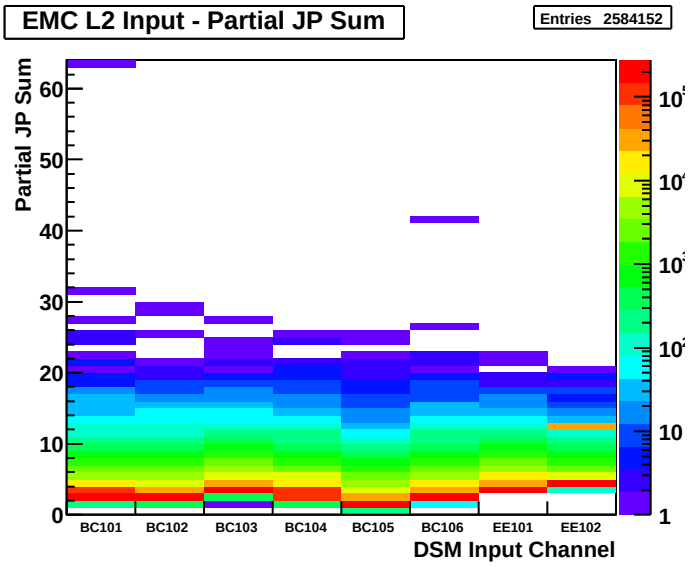

EMC L2 Input - JPX/JPA bits
Entries 5
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

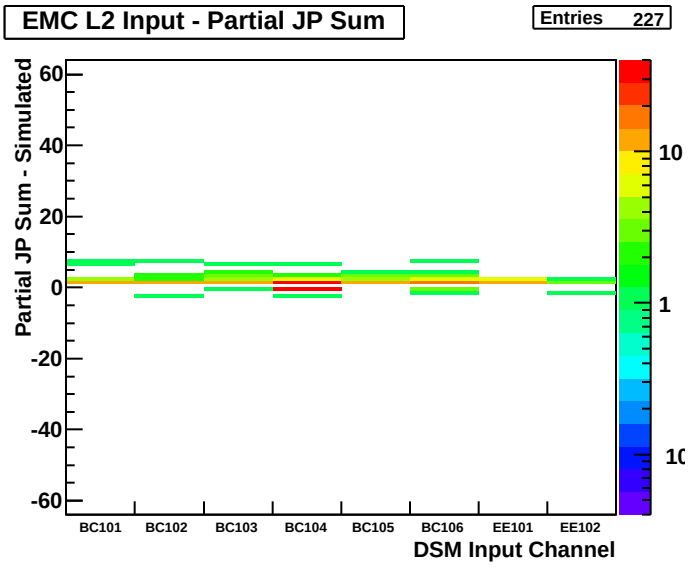

EMC L2 Input - JPY/JPB bits
Entries 2584152
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

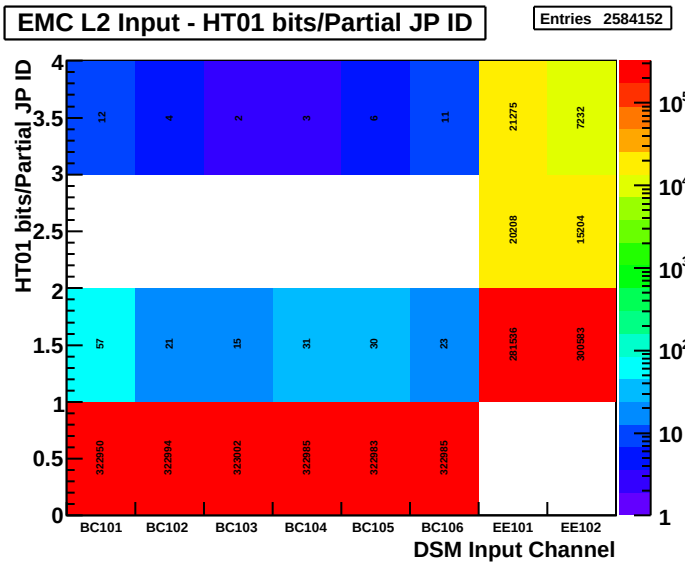

EMC L2 Input - JPY/JPB bits
Entries 5
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

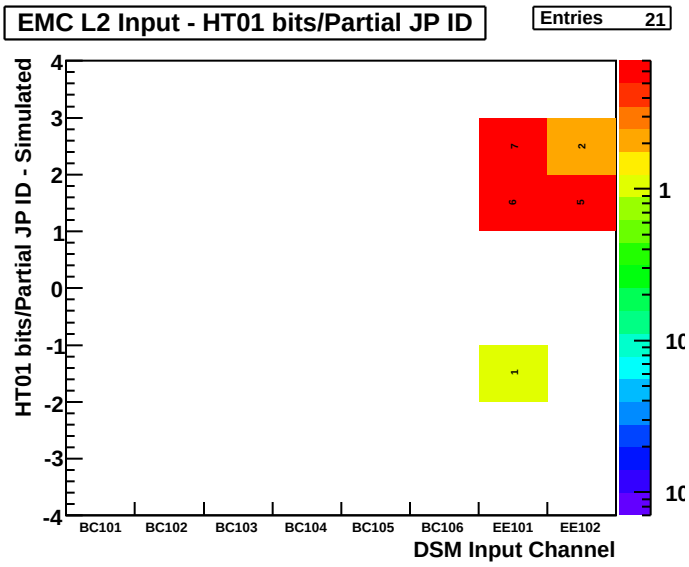

EMC L2 Input - JPZ/JPC bits
Entries 2584152
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

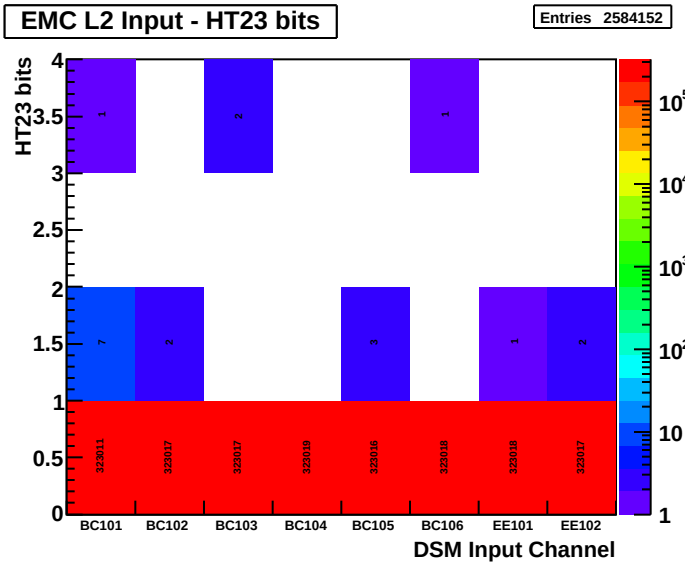

EMC L2 Input - JPZ/JPC bits
Entries 3
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

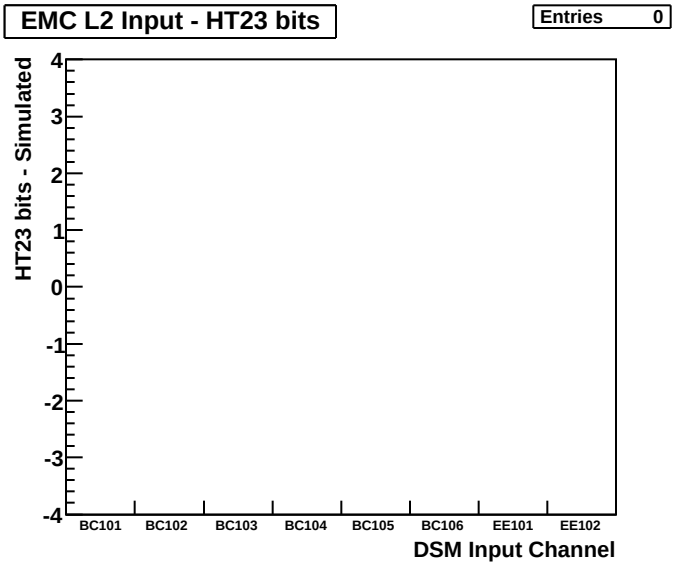

EMC L2 Input - Partial JP Sum
Entries 2584152
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

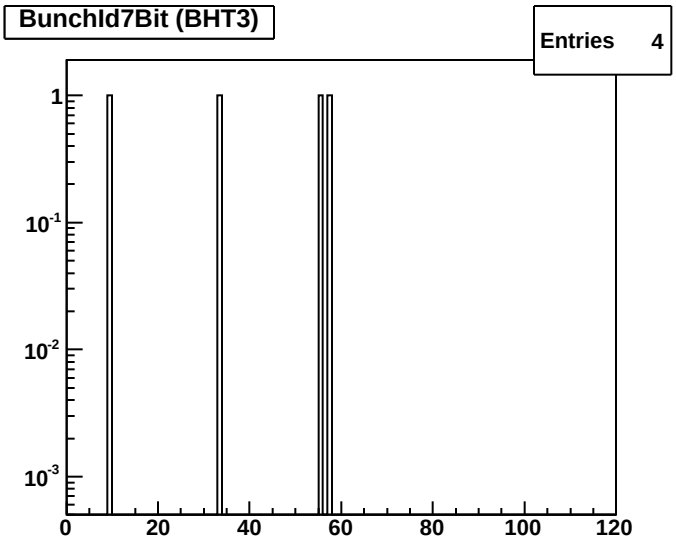

EMC L2 Input - Partial JP Sum
Entries 227
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

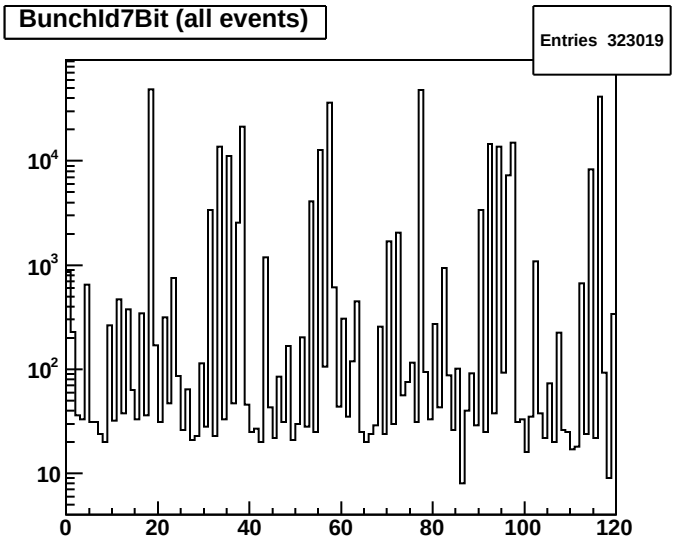

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2584152
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

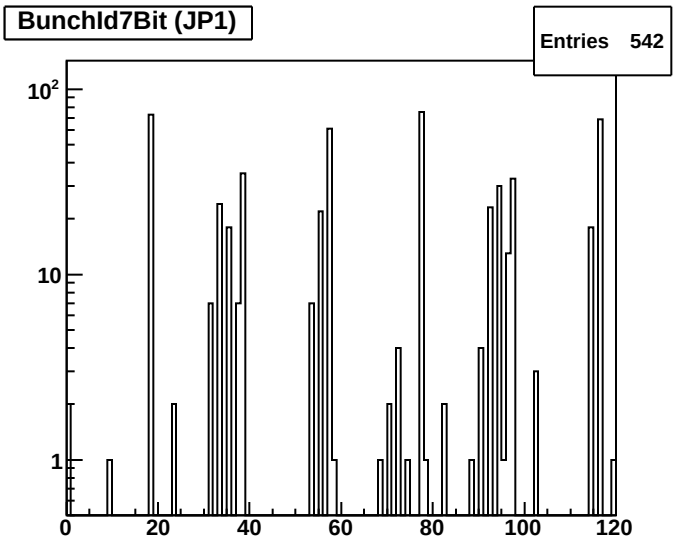

EMC L2 Input - HT01 bits/Partial JP ID
Entries 21
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

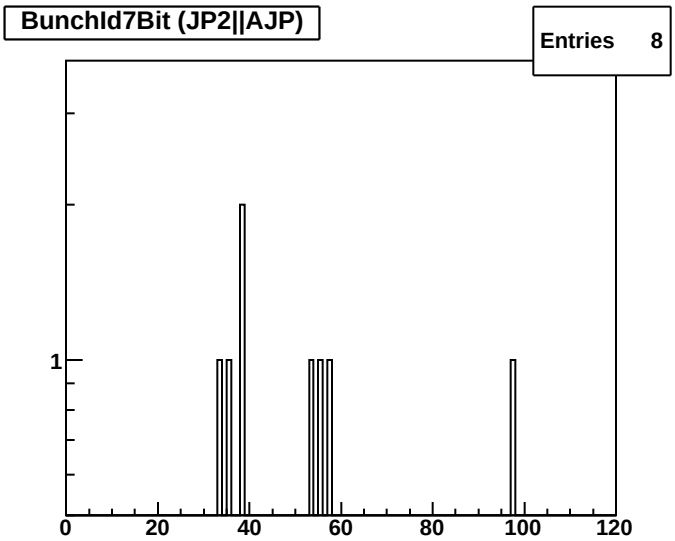

EMC L2 Input - HT23 bits
Entries 2584152
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

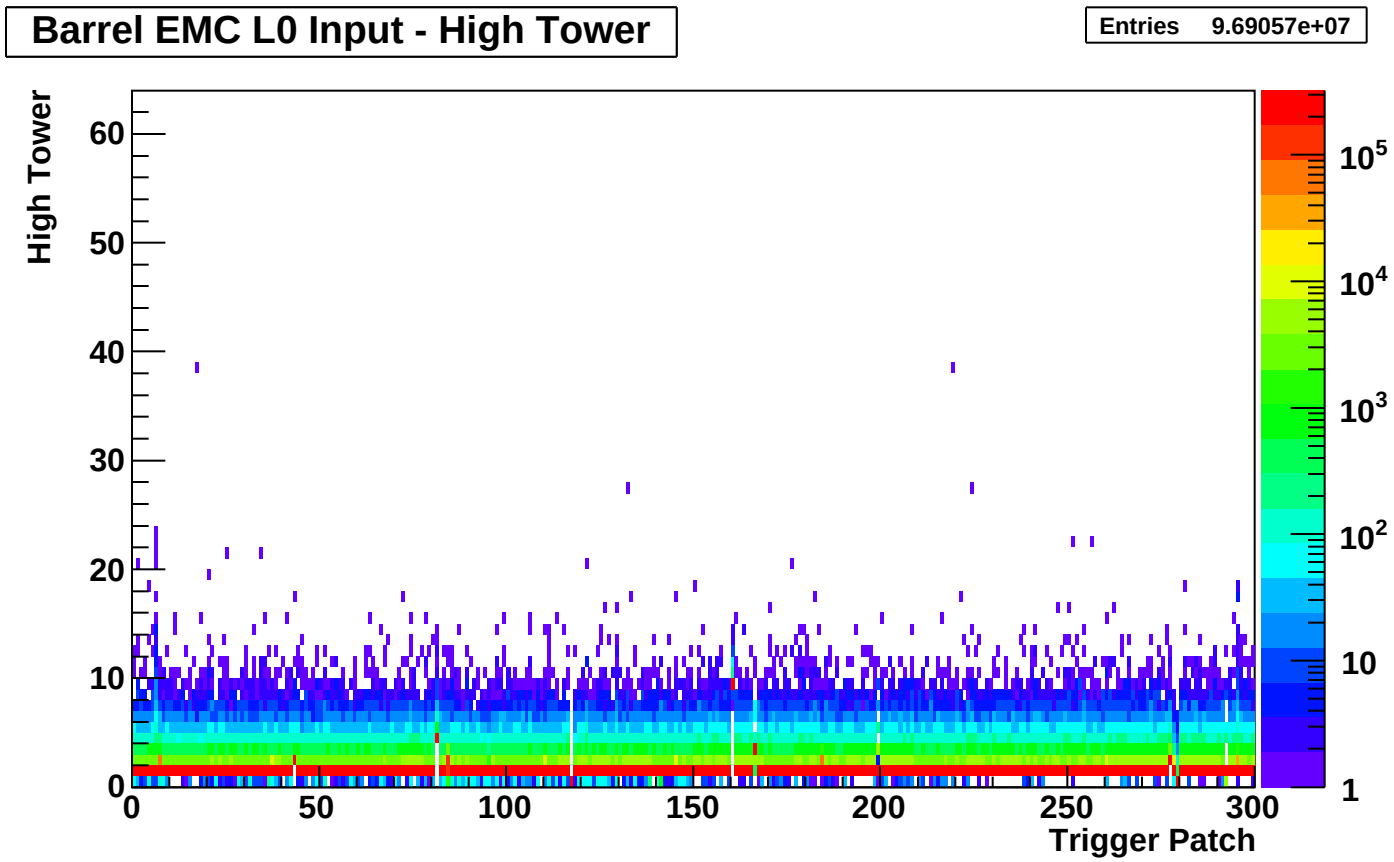

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

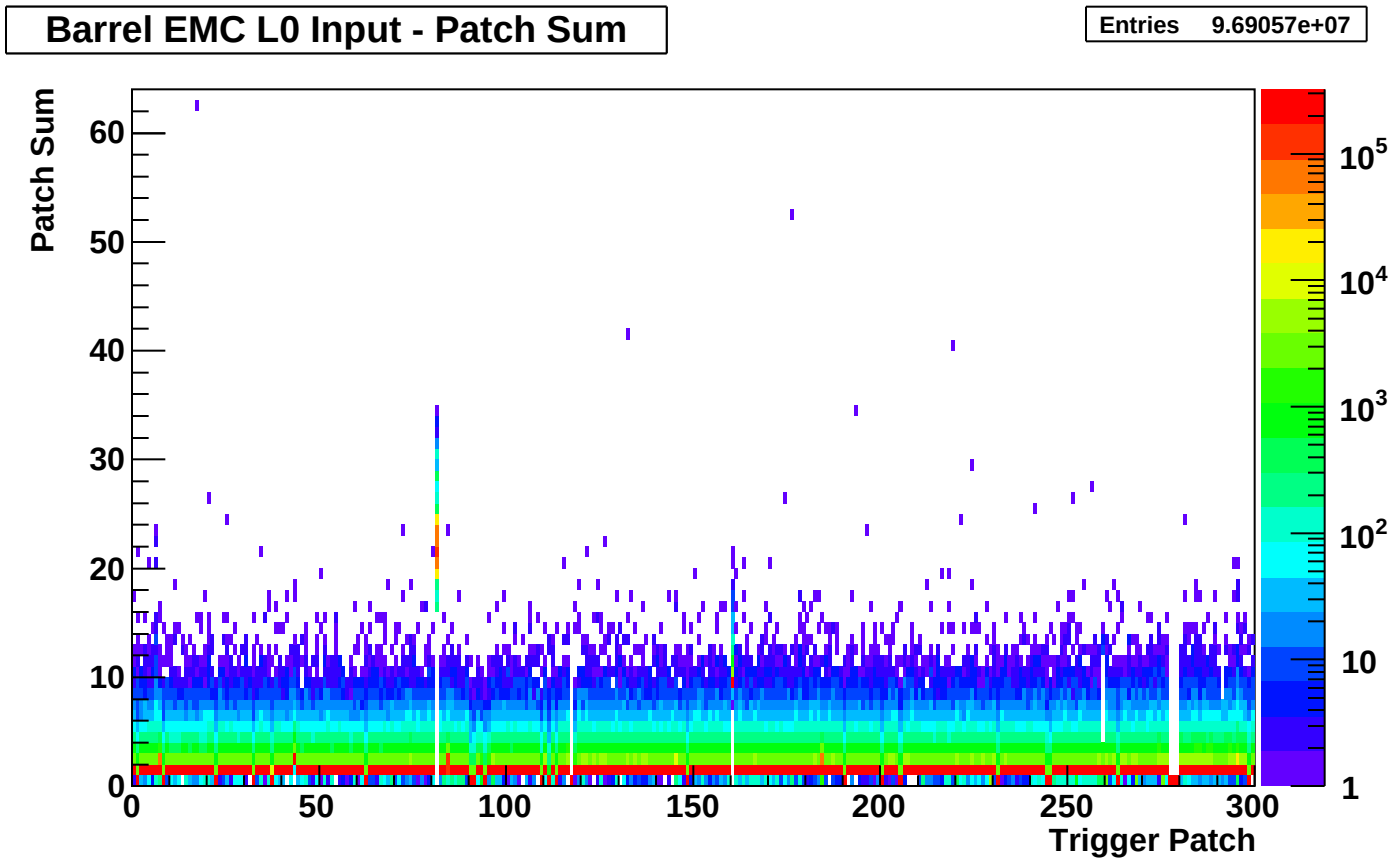

BunchId7Bit (BHT3)
Entries 4
1
10-1
10-2
10-3
0
20
40
60
80
100
120

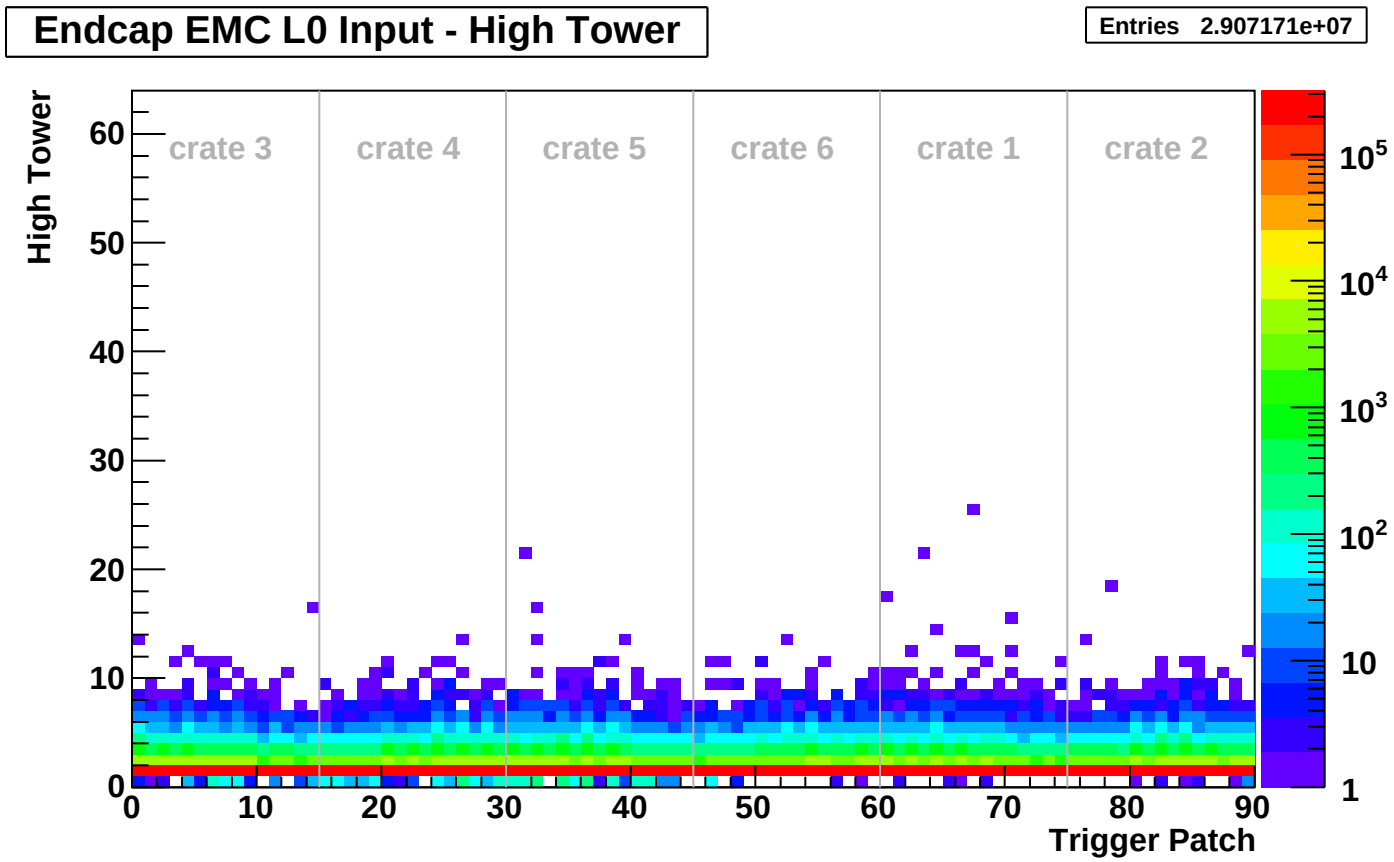

BunchId7Bit (all events)
Entries 323019
104
103
102
10
0
20
40
60
80
100
120

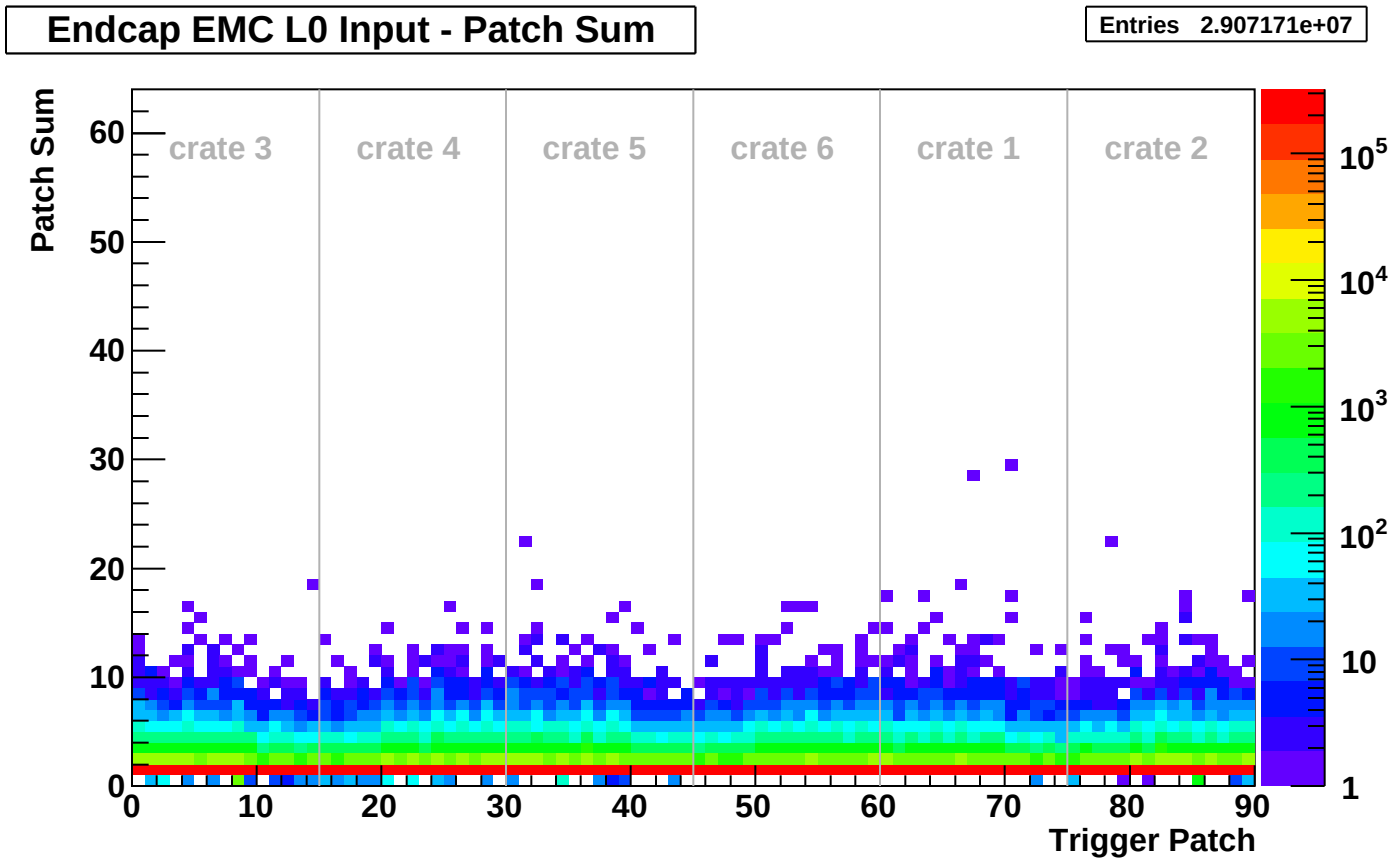

BunchId7Bit (JP1)
Entries 542
102
10
1
0
20
40
60
80
100
120

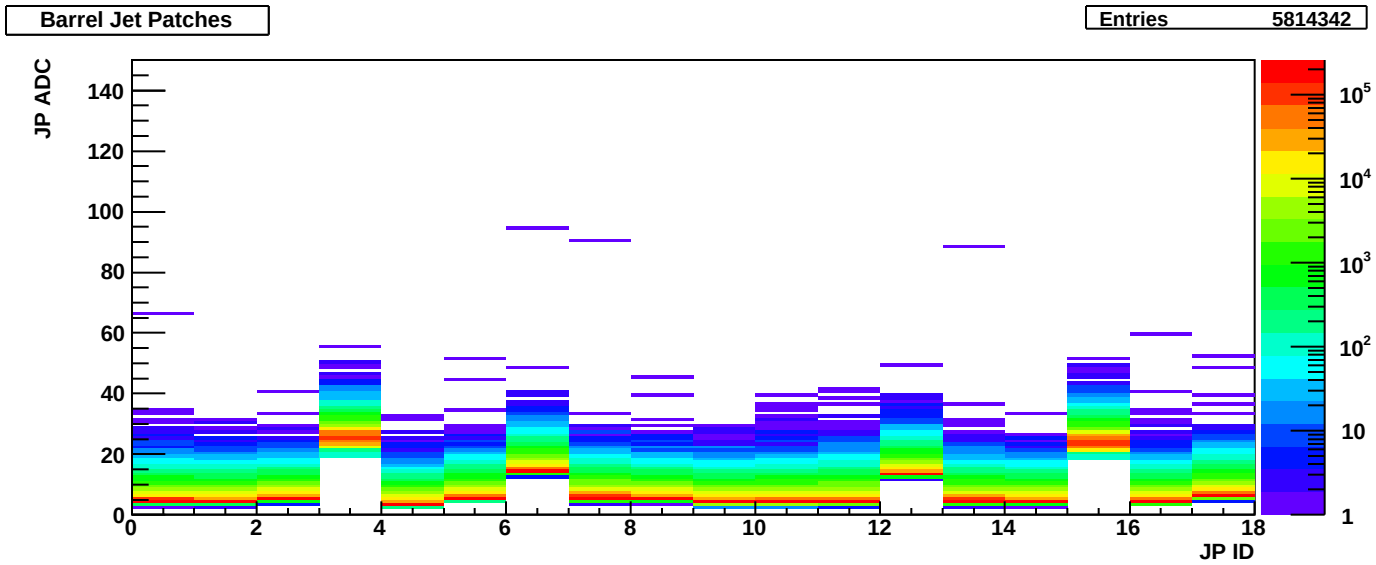

BunchId7Bit (JP2||AJP)
Entries 8
1
0
20
40
60
80
100
120

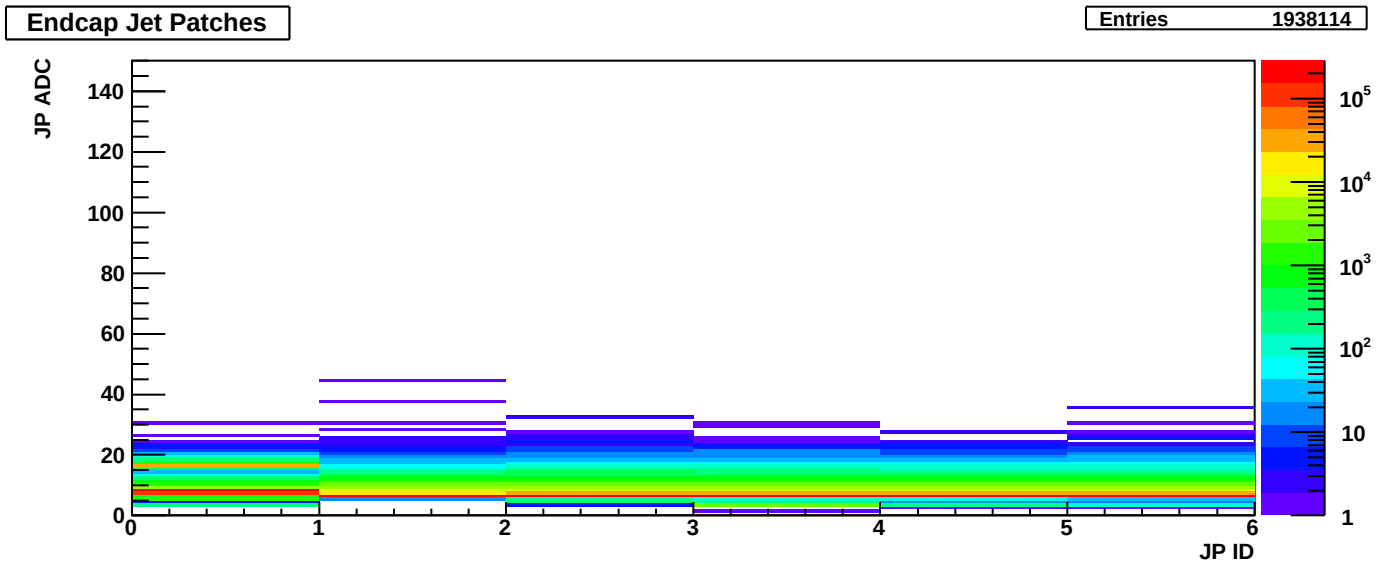

Barrel EMC L0 Input - High Tower
Entries 9.69057e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

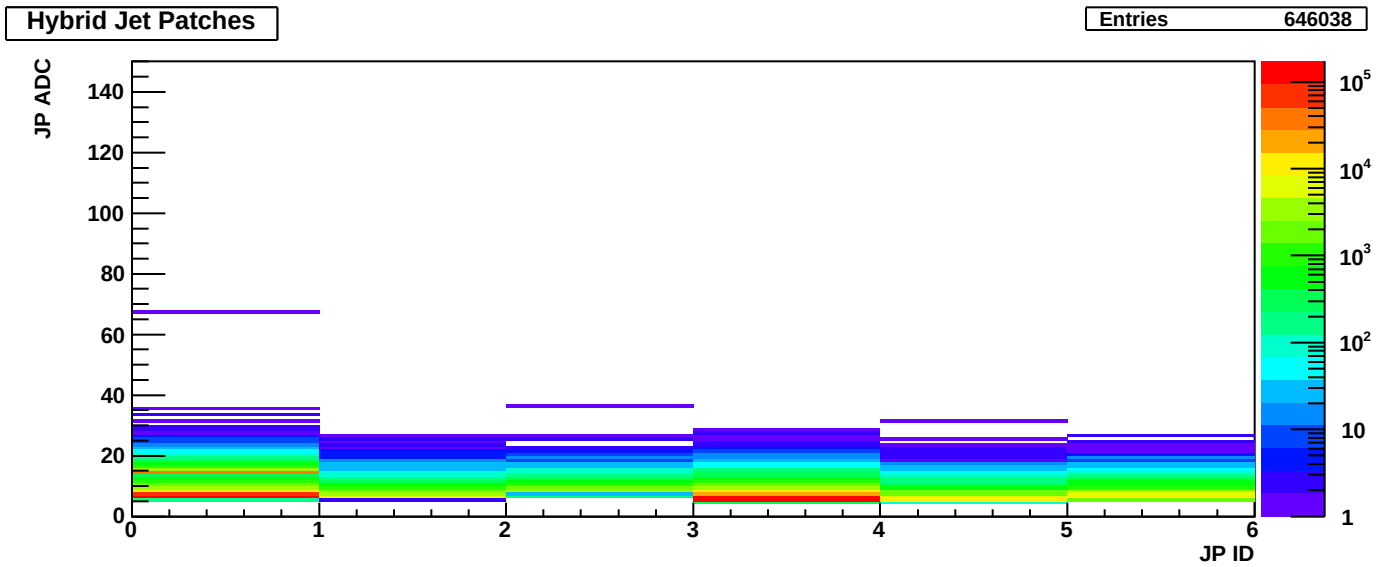

Barrel EMC L0 Input - Patch Sum
Entries 9.69057e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

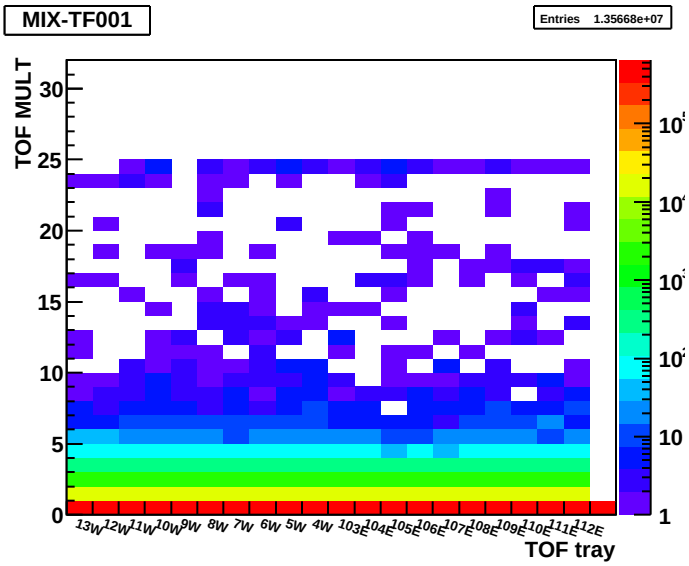

Endcap EMC L0 Input - High Tower
Entries 2.907171e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

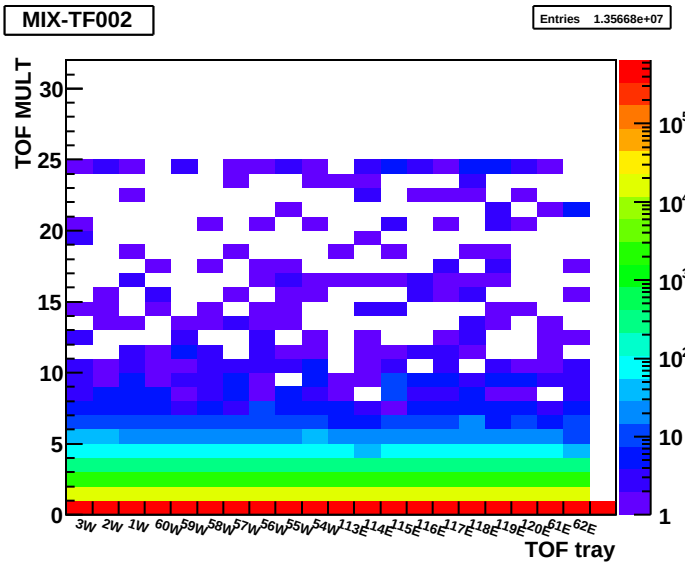

Endcap EMC L0 Input - Patch Sum
Entries 2.907171e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

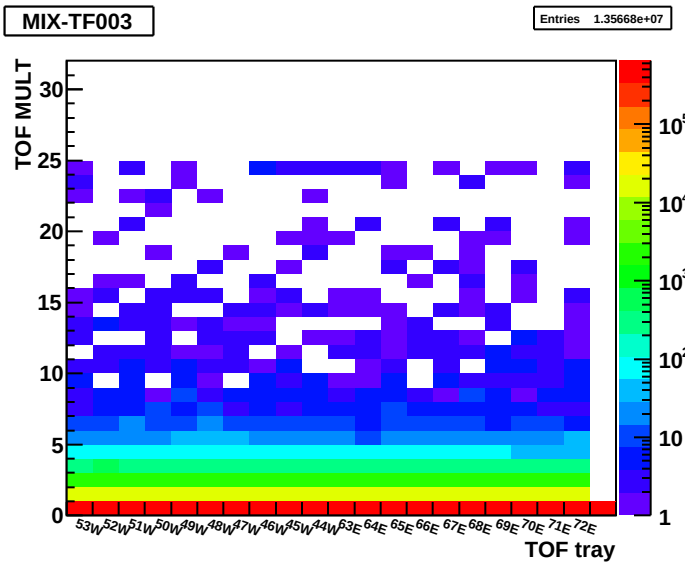

Barrel Jet Patches
Entries 5814342
JP ADC
JP ID

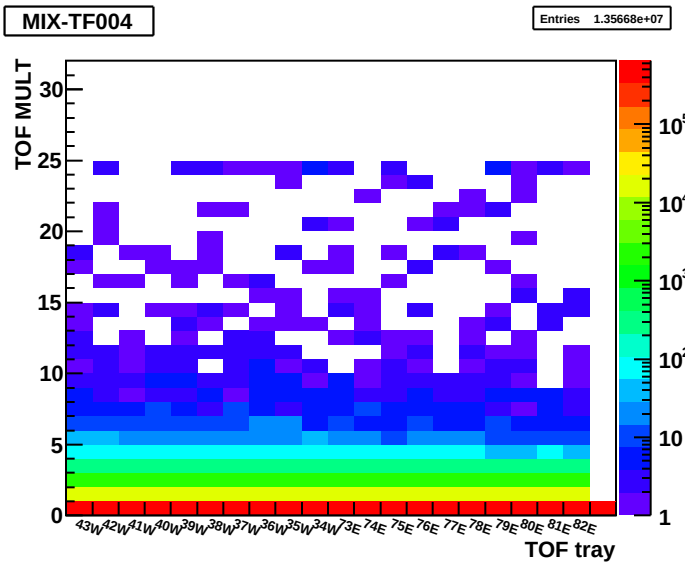

Endcap Jet Patches
Entries 1938114
JP ADC
JP ID

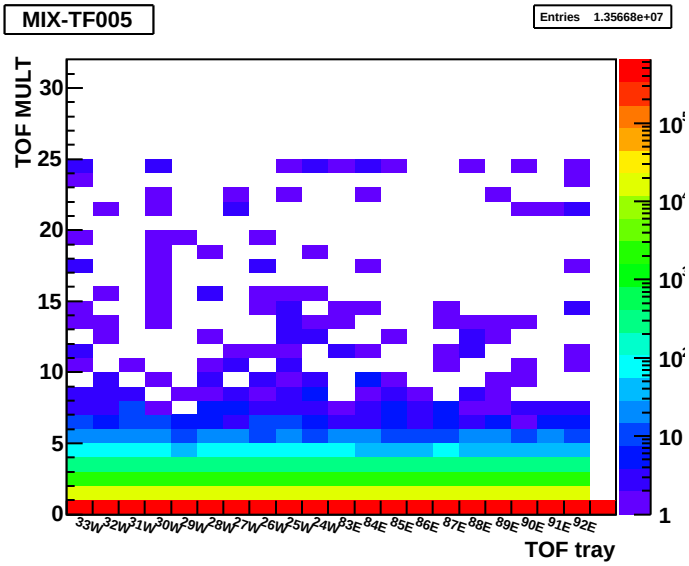

Hybrid Jet Patches
Entries 646038
JP ADC
JP ID

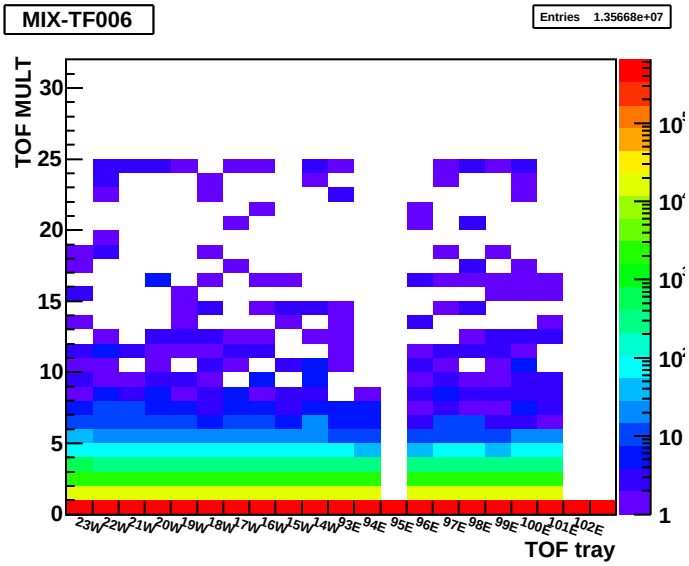

MIX-TF001
Entries 1.35668e+07
TOF MULT
TOF tray

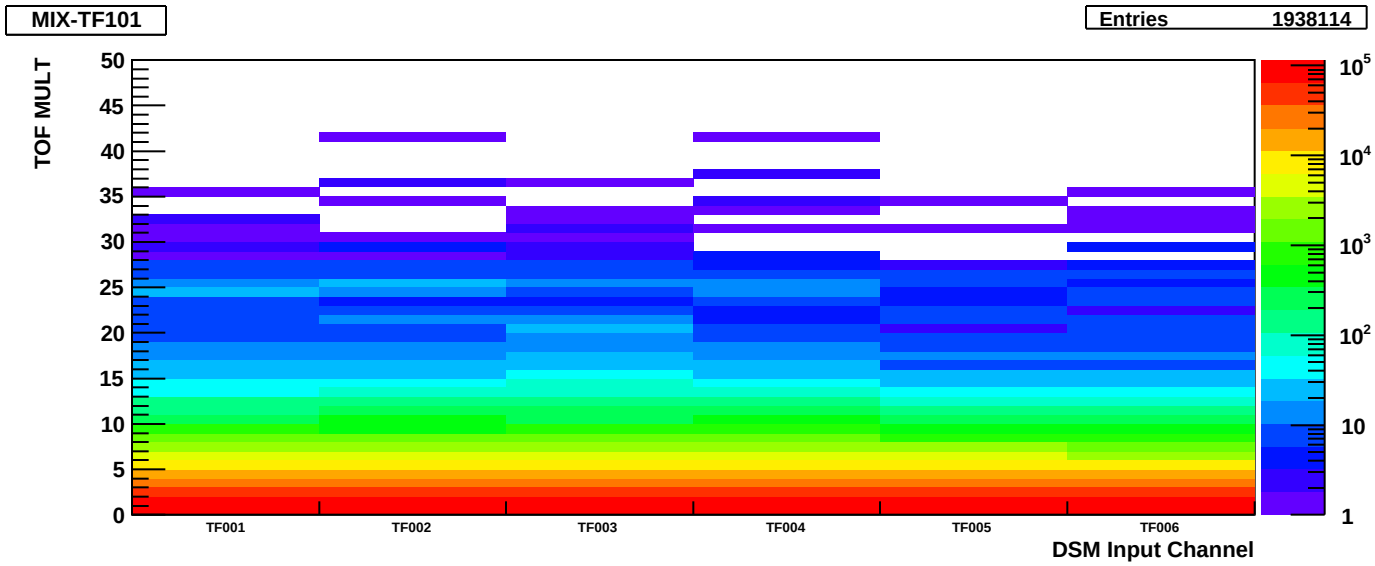

MIX-TF002
Entries 1.35668e+07
TOF MULT
TOF tray

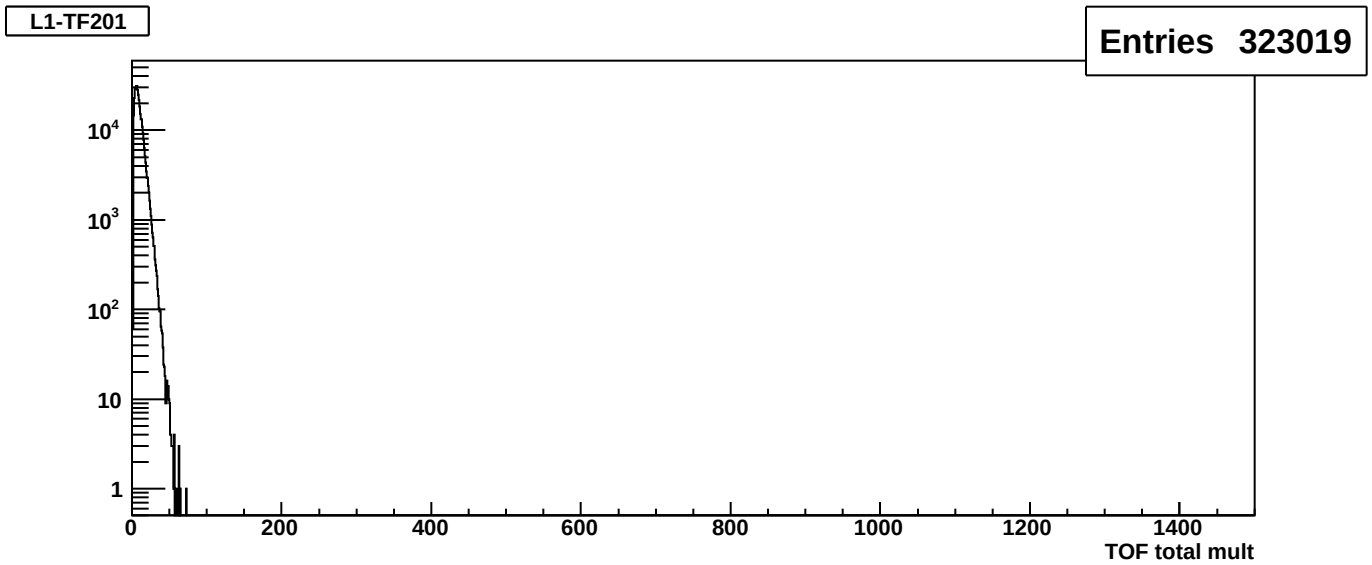

MIX-TF003
Entries 1.35668e+07
TOF MULT
TOF tray

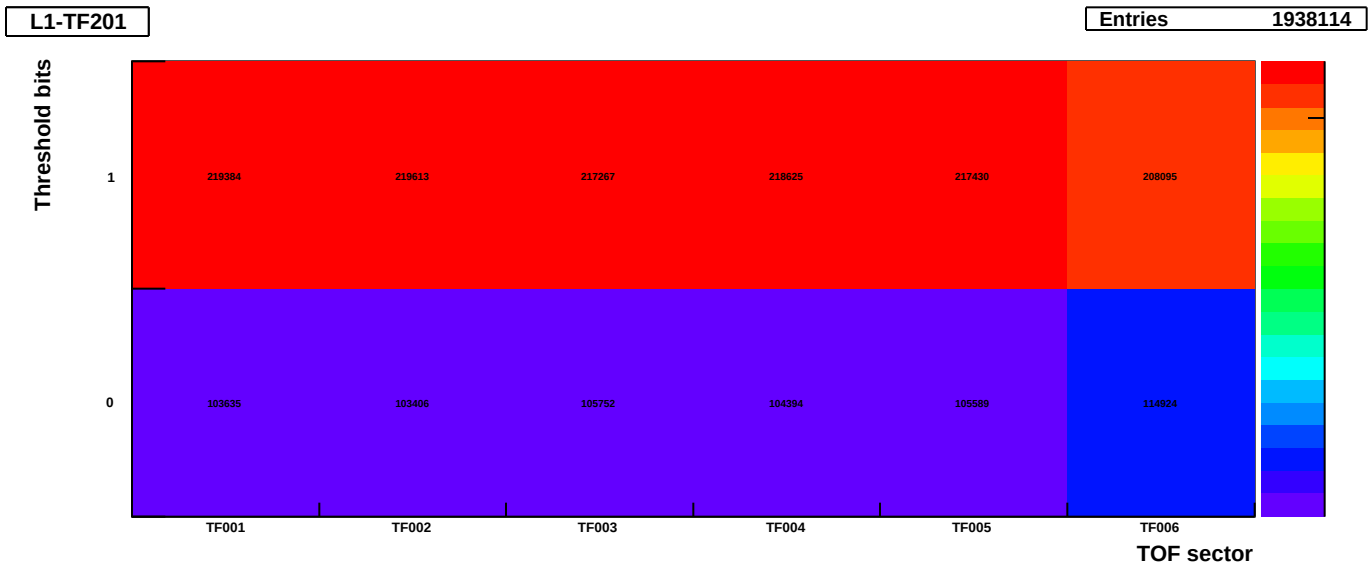

MIX-TF004
Entries 1.35668e+07
TOF MULT
TOF tray

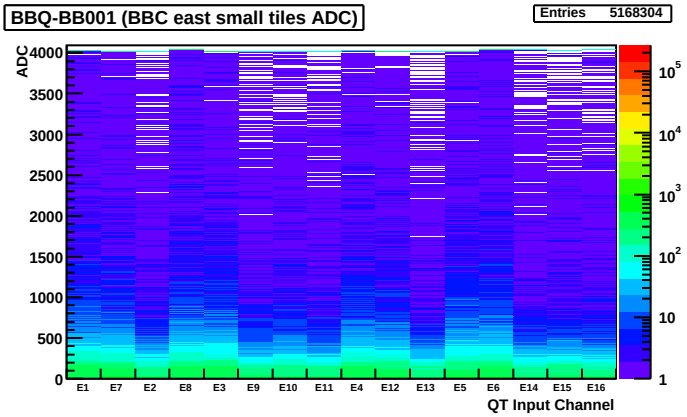

MIX-TF005
Entries 1.35668e+07
TOF MULT
TOF tray

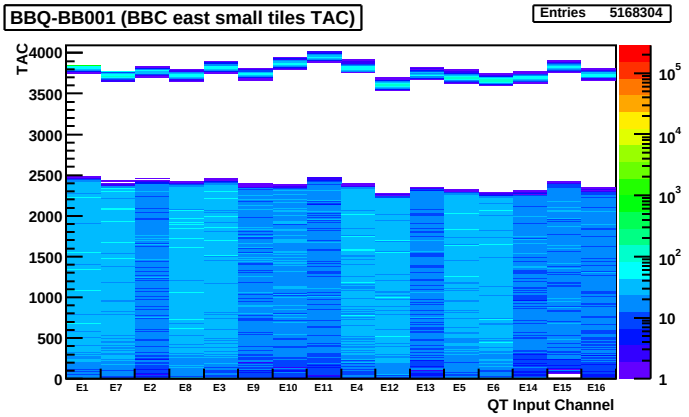

MIX-TF006
Entries 1.35668e+07
TOF MULT
TOF tray

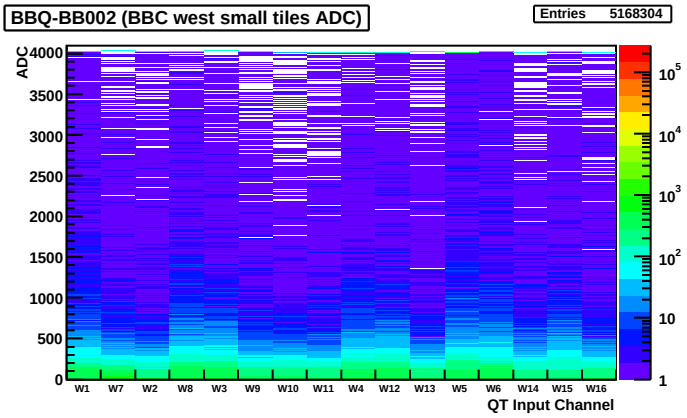

MIX-TF101
Entries 1938114
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

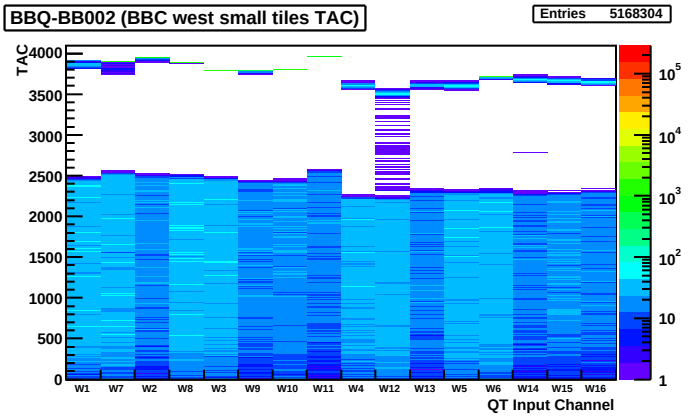

L1-TF201
Entries 323019
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

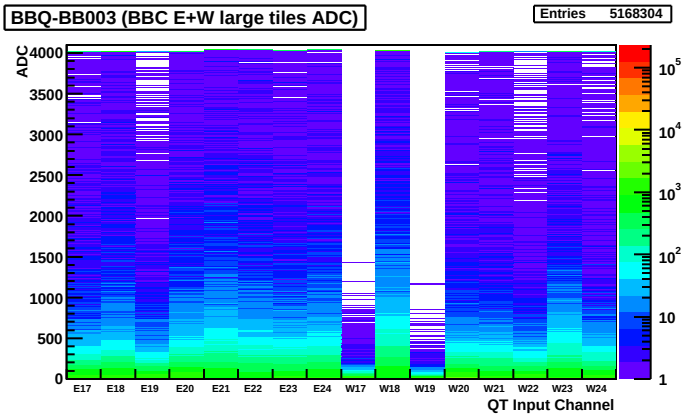

L1-TF201
Entries 1938114
Threshold bits
1
0
219384
219613
217267
218625
217430
208095
103635
103406
105752
104394
105589
114924
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

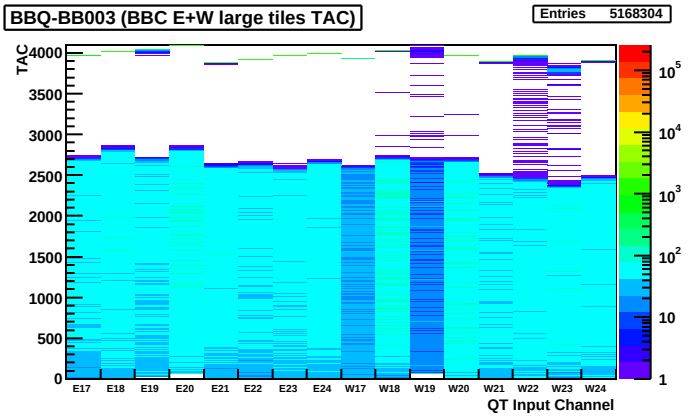

BBQ-BB001 (BBC east small tiles ADC)
Entries 5168304
ADC
QT Input Channel

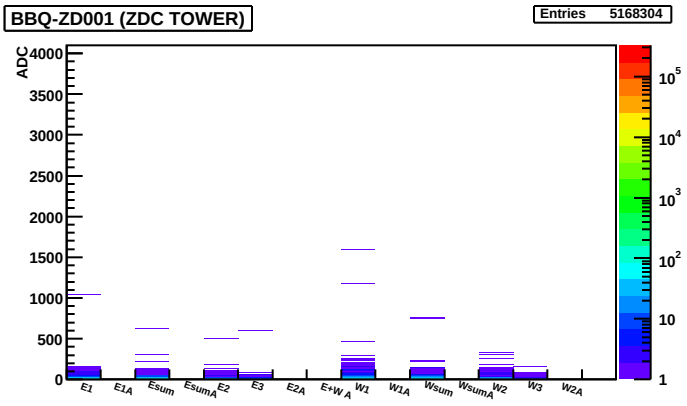

BBQ-BB001 (BBC east small tiles TAC)
Entries 5168304
TAC
QT Input Channel

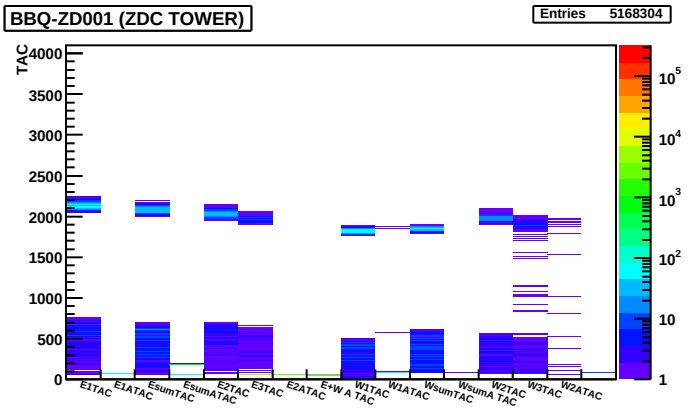

BBQ-BB002 (BBC west small tiles ADC)
Entries 5168304
ADC
QT Input Channel

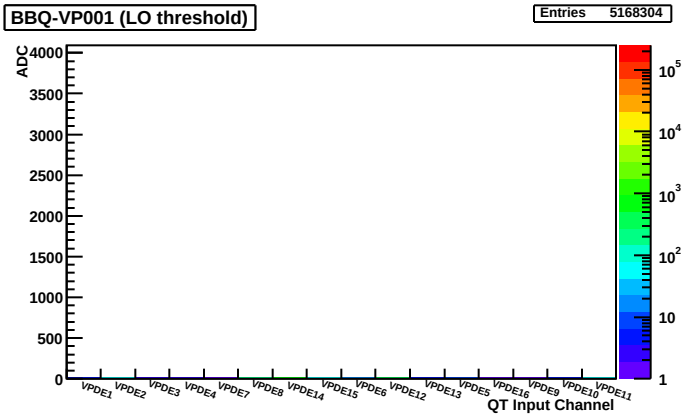

BBQ-BB002 (BBC west small tiles TAC)
Entries 5168304
TAC
QT Input Channel

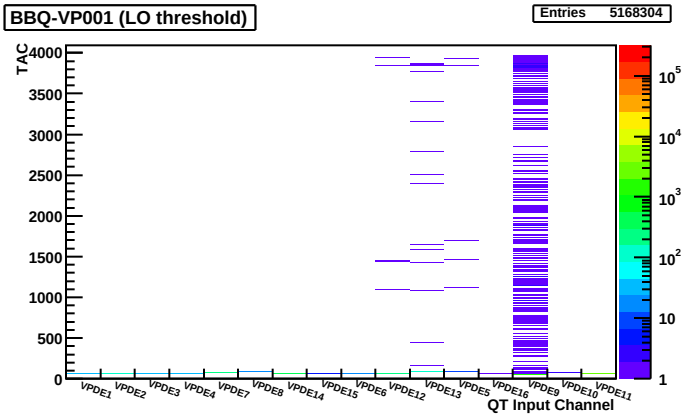

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5168304
ADC
QT Input Channel

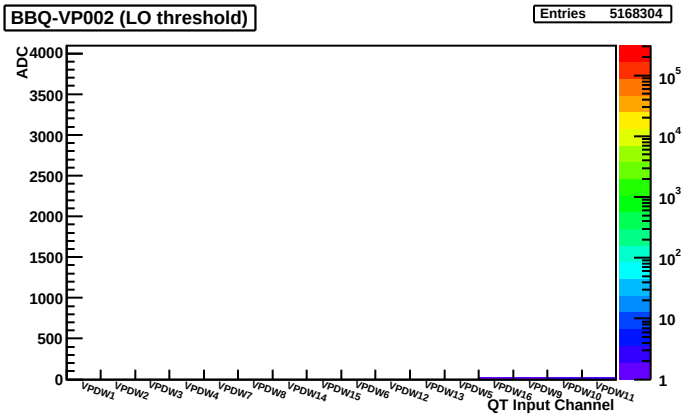

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5168304
TAC
QT Input Channel

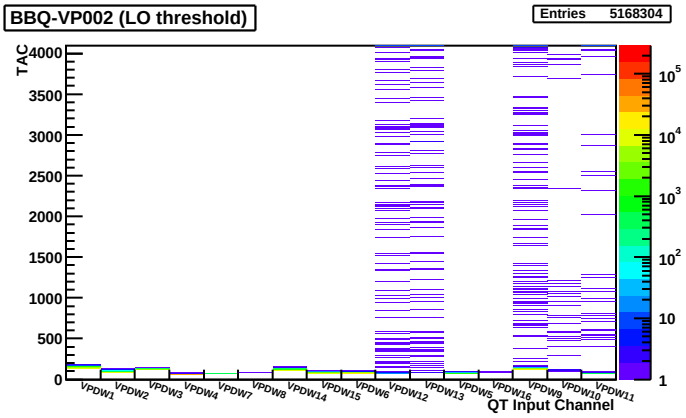

BBQ-ZD001 (ZDC TOWER)
Entries 5168304
ADC

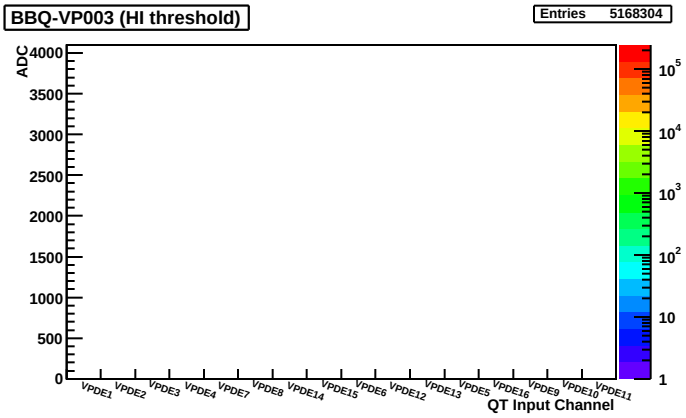

BBQ-ZD001 (ZDC TOWER)
Entries 5168304
TAC

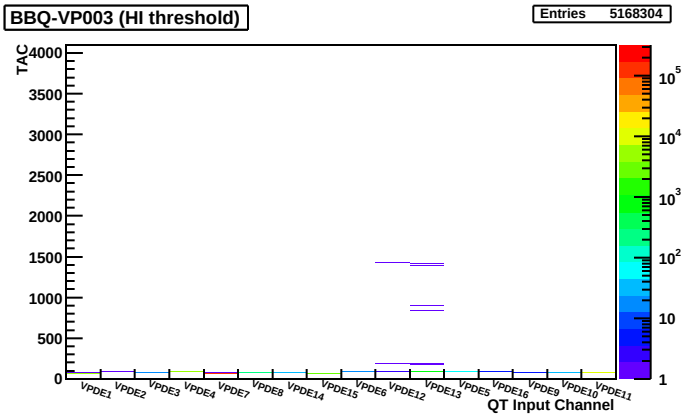

BBQ-VP001 (LO threshold)
Entries 5168304
ADC
QT Input Channel

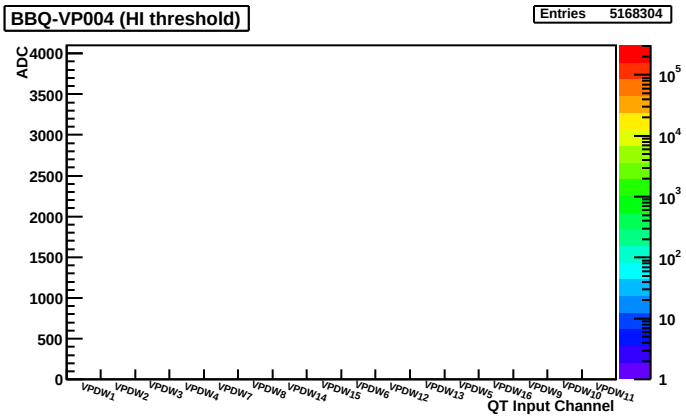

BBQ-VP001 (LO threshold)
Entries 5168304
TAC
QT Input Channel

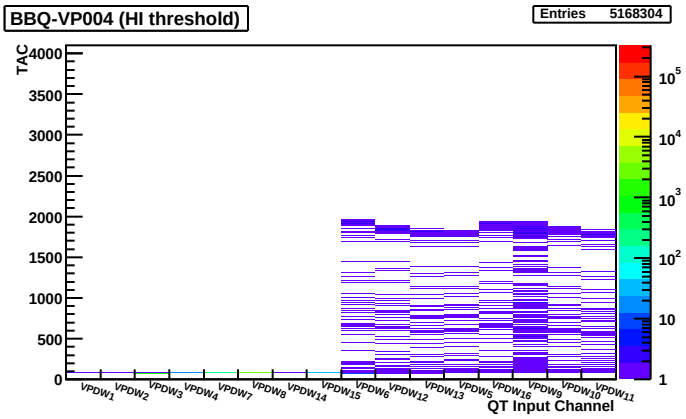

BBQ-VP002 (LO threshold)
Entries 5168304
ADC
QT Input Channel

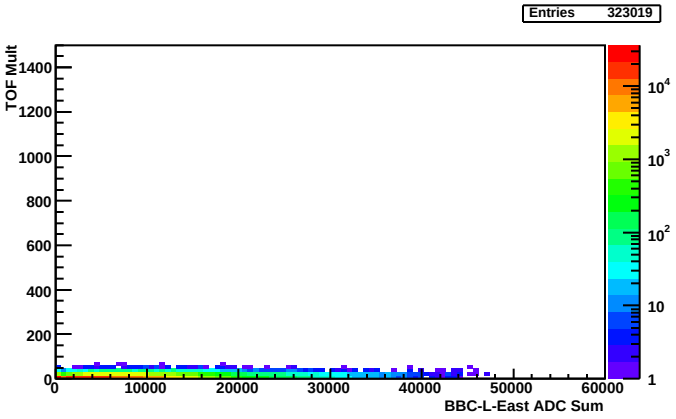

BBQ-VP002 (LO threshold)
Entries 5168304
TAC
QT Input Channel

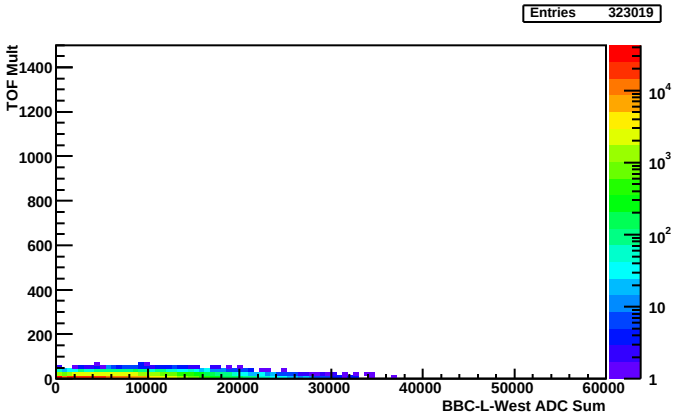

BBQ-VP003 (HI threshold)
Entries 5168304
ADC
QT Input Channel

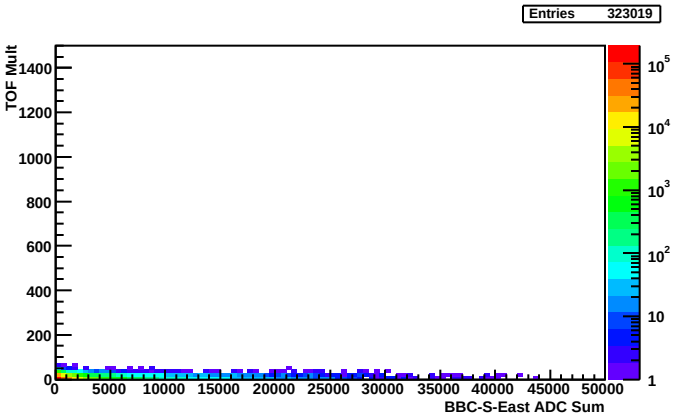

BBQ-VP003 (HI threshold)
Entries 5168304
TAC
QT Input Channel

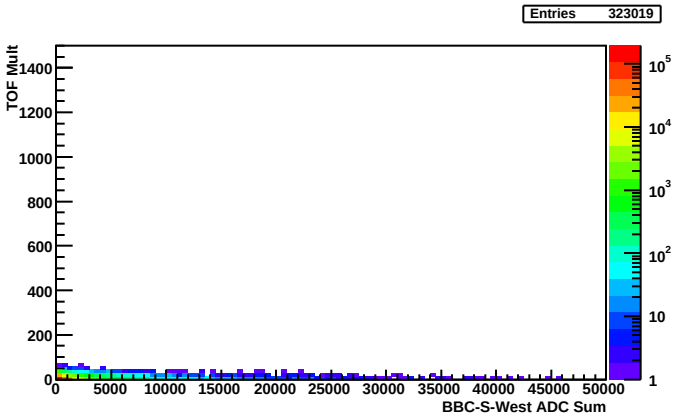

BBQ-VP004 (HI threshold)
Entries 5168304
ADC
QT Input Channel

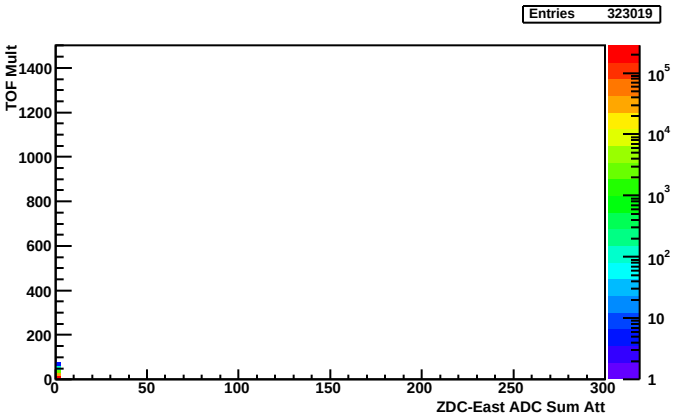

BBQ-VP004 (HI threshold)
Entries 5168304
TAC
QT Input Channel

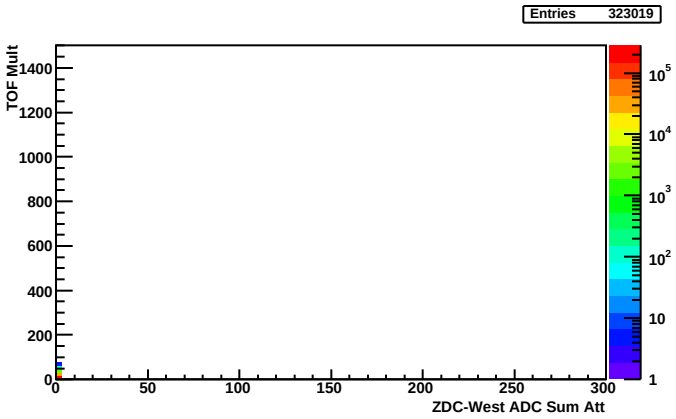

Entries 323019
TOF Mult
BBC-L-East ADC Sum

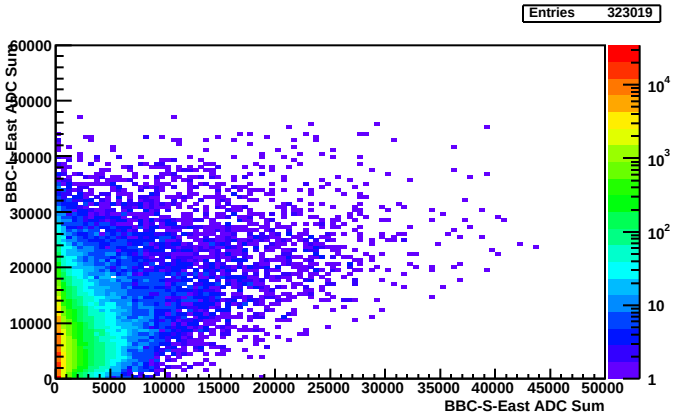

Entries 323019
TOF Mult
BBC-L-West ADC Sum

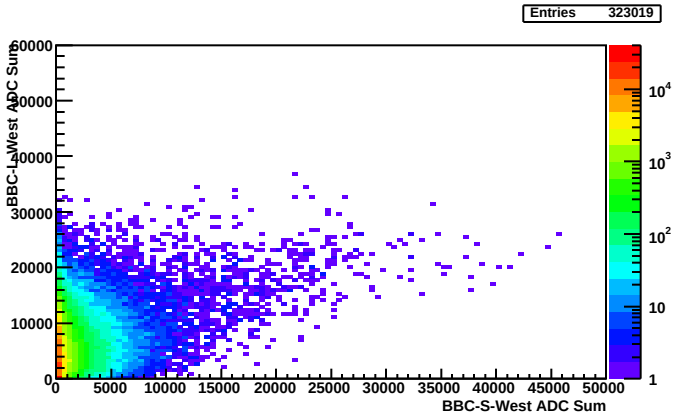

Entries 323019
TOF Mult
BBC-S-East ADC Sum

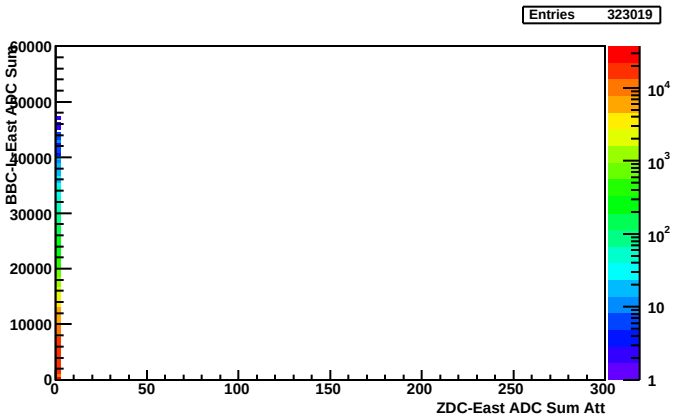

Entries 323019
TOF Mult
BBC-S-West ADC Sum


Entries 323019
TOF Mult
ZDC-East ADC Sum Att


Entries 323019
TOF Mult
ZDC-West ADC Sum Att


Entries 323019
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 323019
BBC-L-West ADC Sum
BBC-S-West ADC Sum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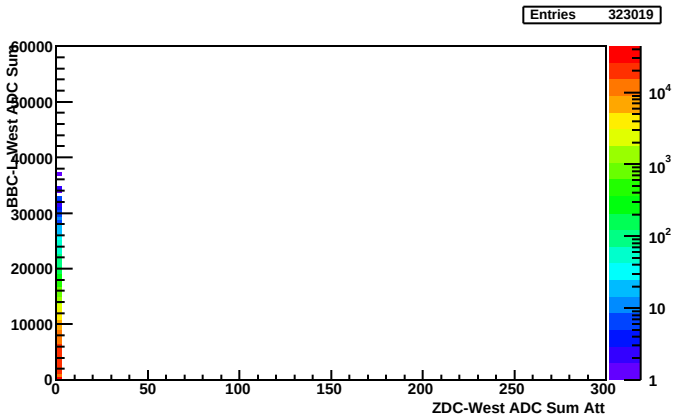
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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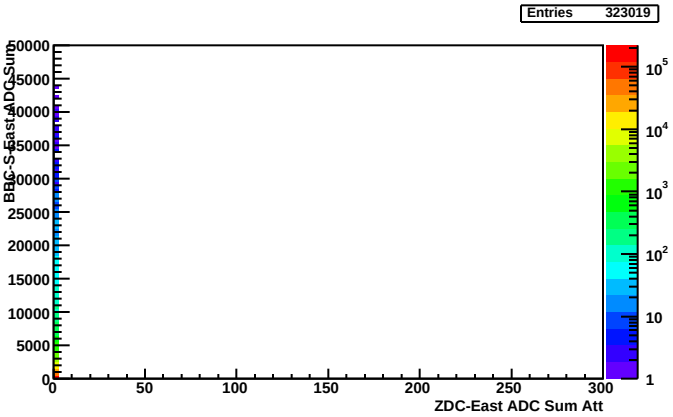
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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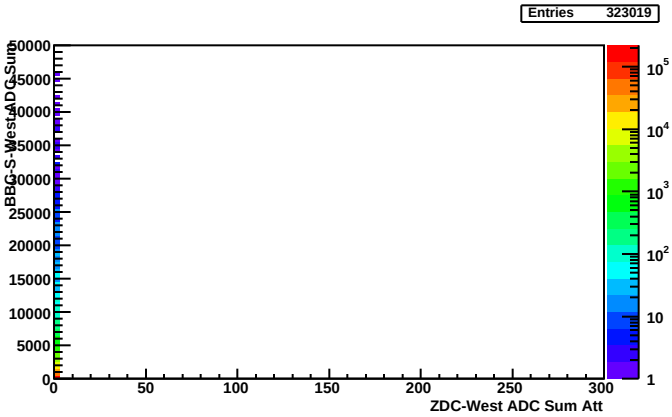
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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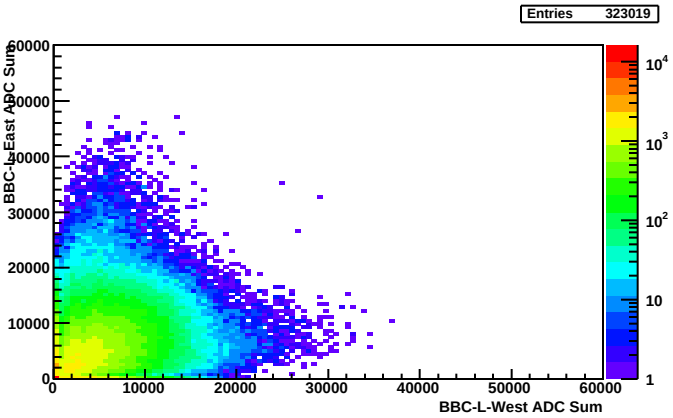
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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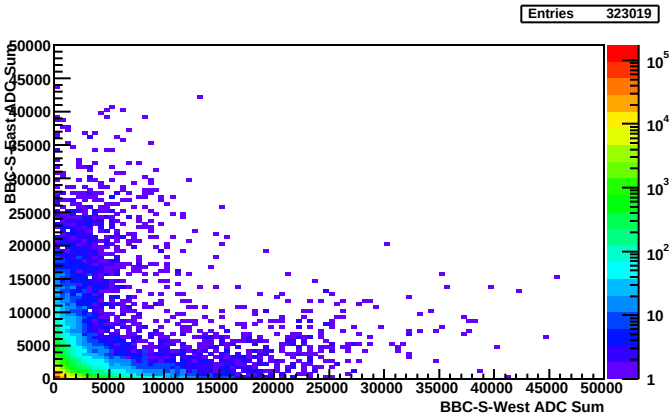
BBC-L-East ADC Sum
BBC-L-West ADC Sum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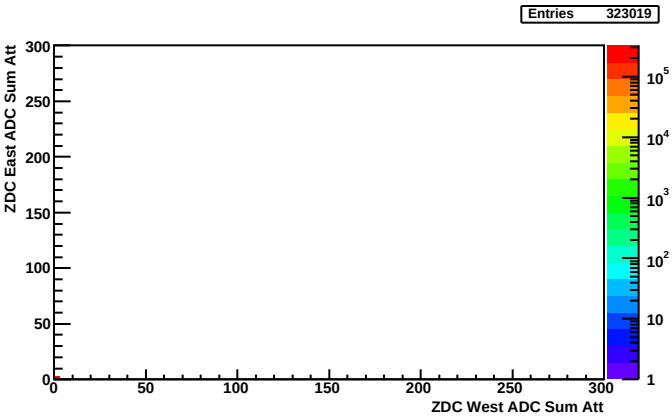
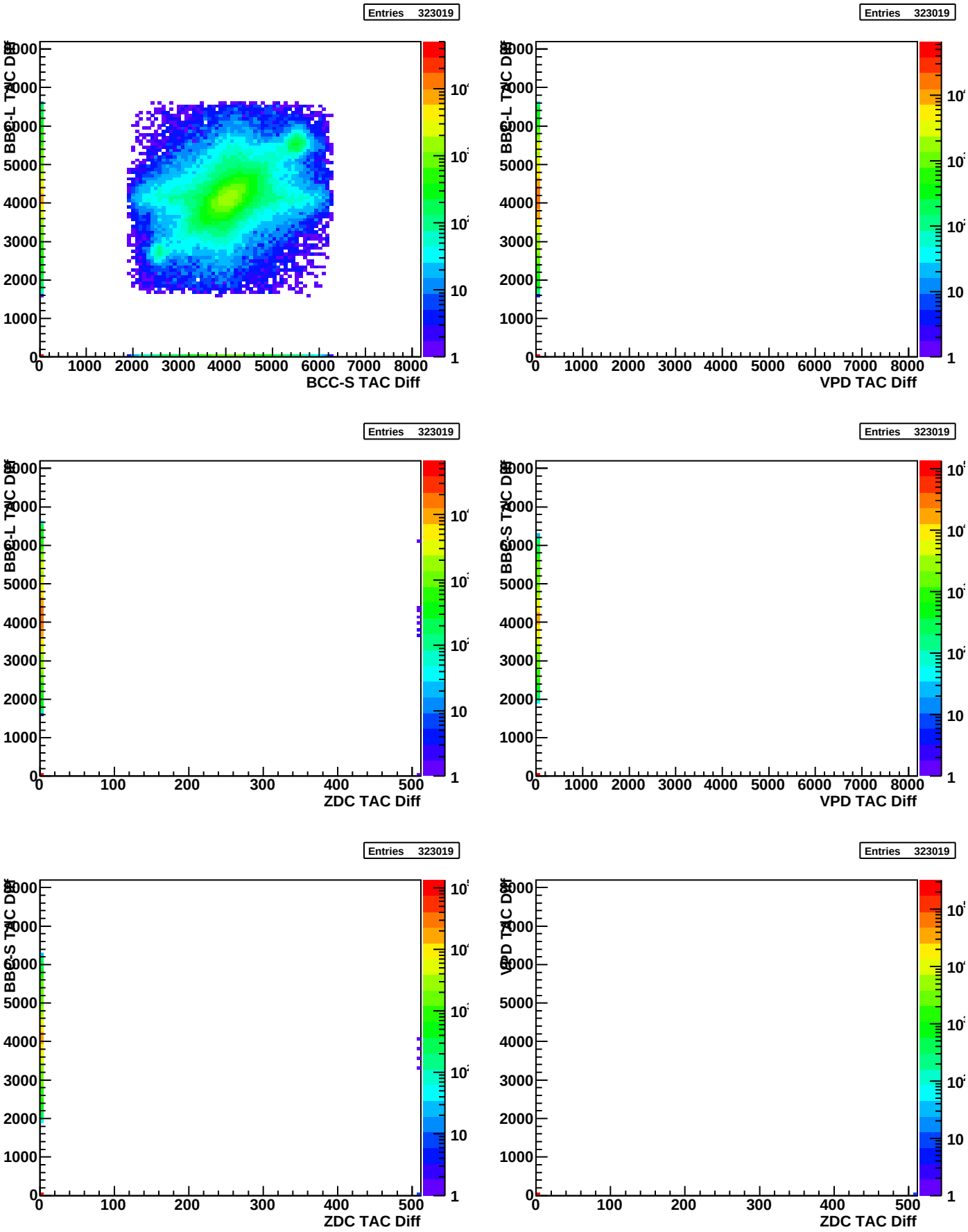
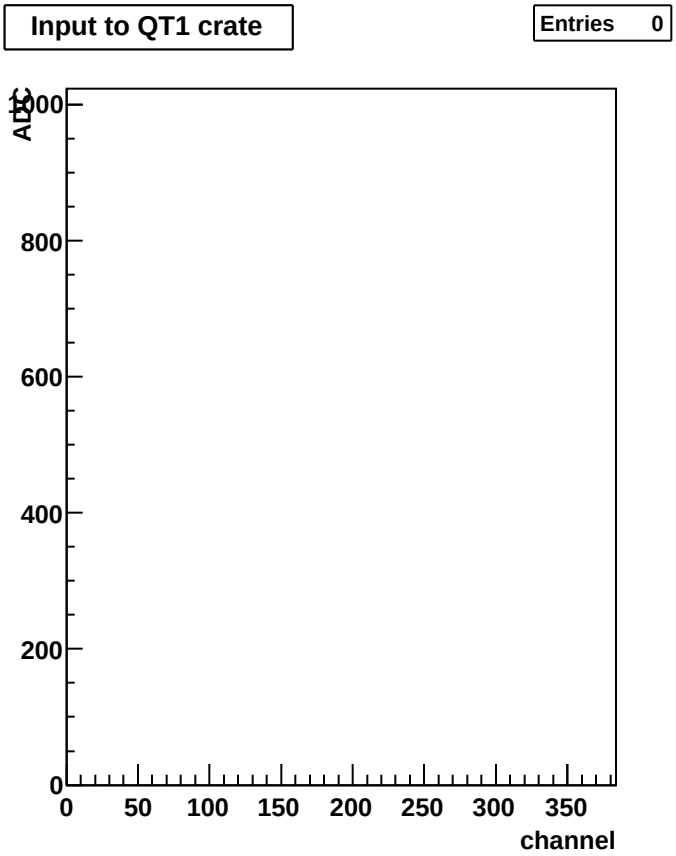
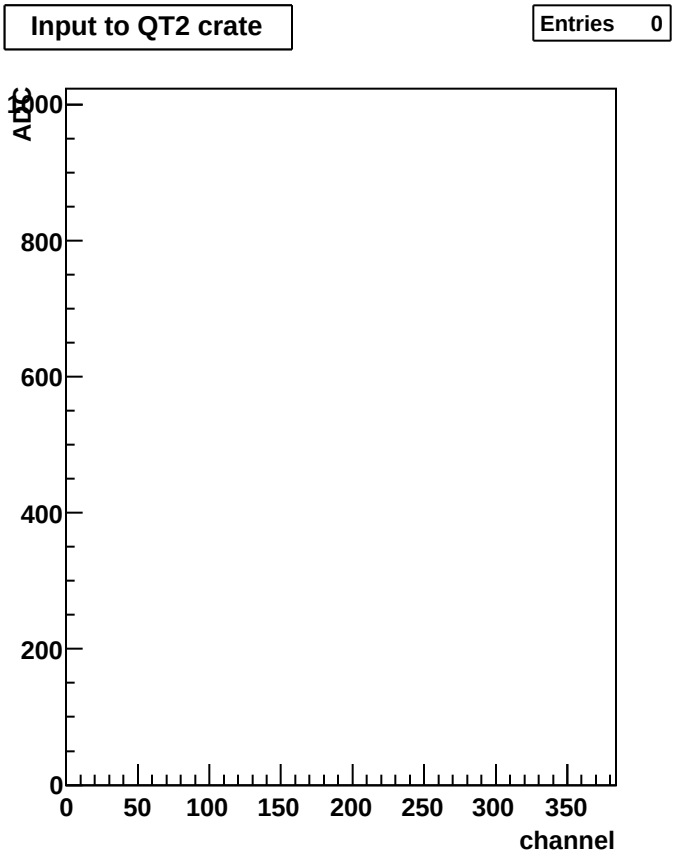
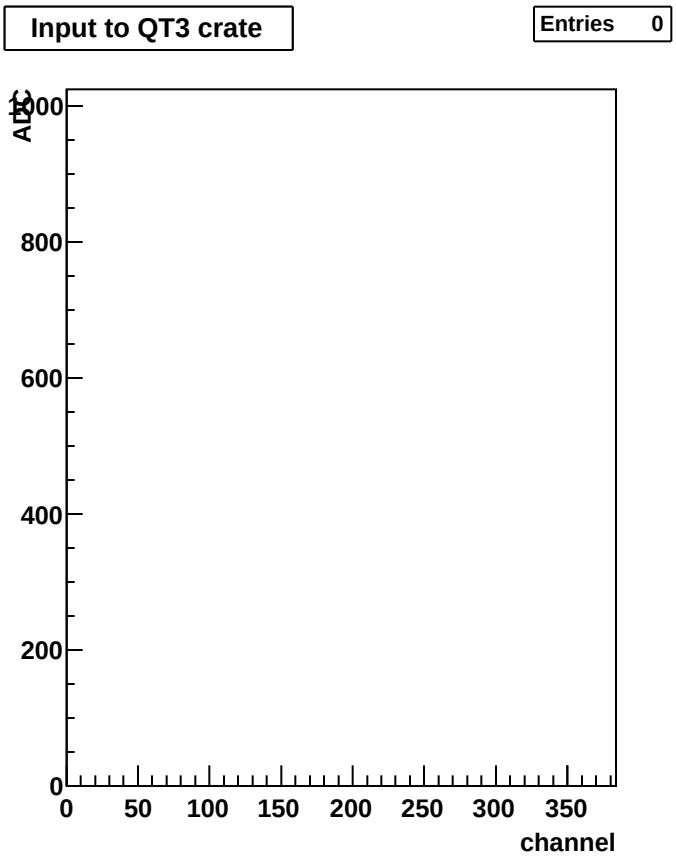
BBC-S-East ADC Sum
BBC-S-West ADC Sum

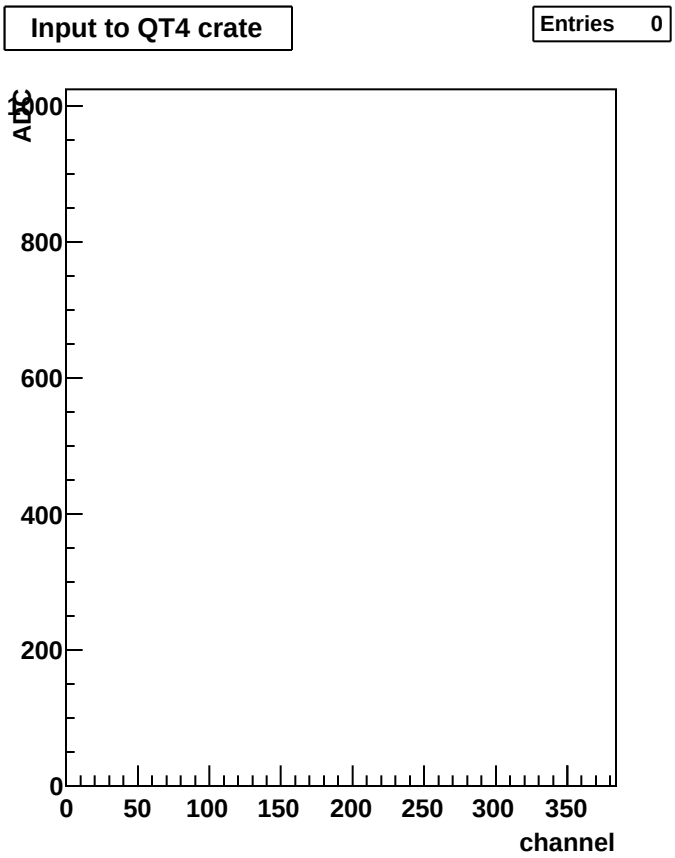

Entries 323019
ZDC East ADC Sum Att
ZDC West ADC Sum Att

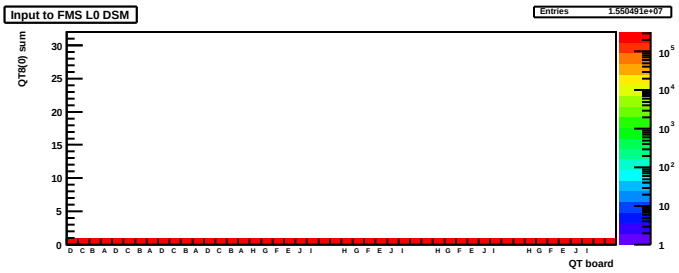

Entries 323019
BBC-L TAC Diff
BCC-S TAC Diff
Entries 323019
BBC-L TAC Diff
VPD TAC Diff
Entries 323019
BBC-L TAC Diff
ZDC TAC Diff
Entries 323019
BBC-S TAC Diff
VPD TAC Diff
Entries 323019
BBC-S TAC Diff
ZDC TAC Diff
Entries 323019
VPD TAC Diff
ZDC TAC Diff

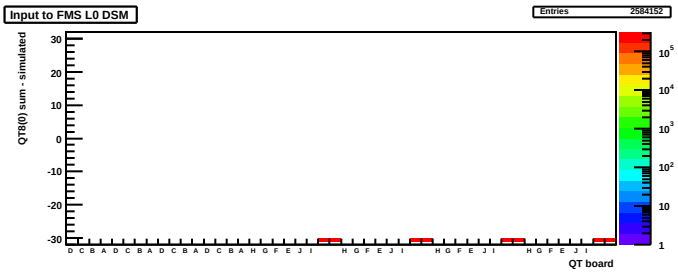

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

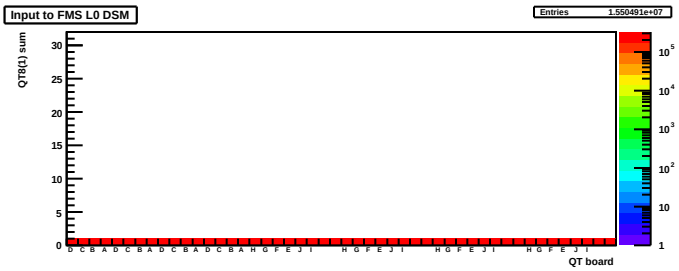

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

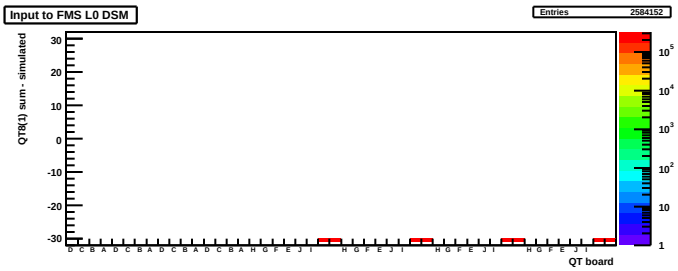

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

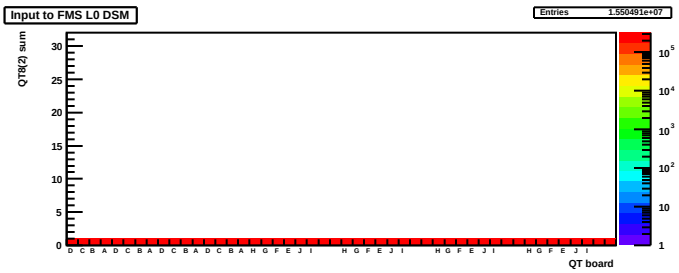

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

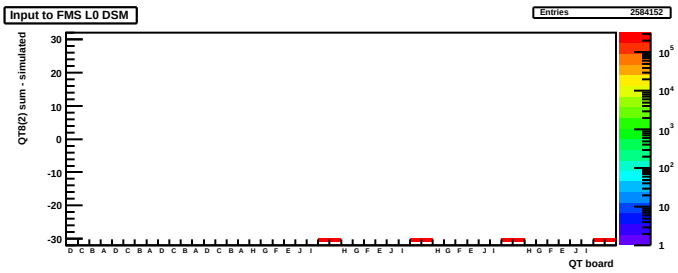

Input to FMS L0 DSM
Entries 1.550491e+07
QT8(0) sum
QT board

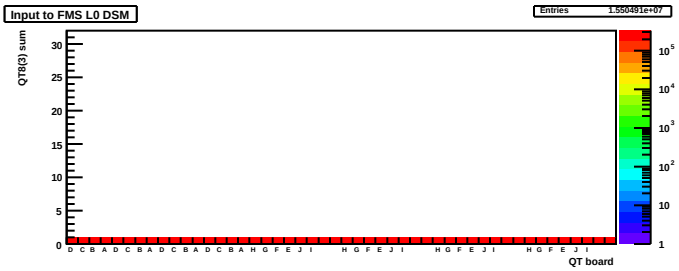

Input to FMS L0 DSM
Entries 2584152
QT8(0) sum - simulated
QT board

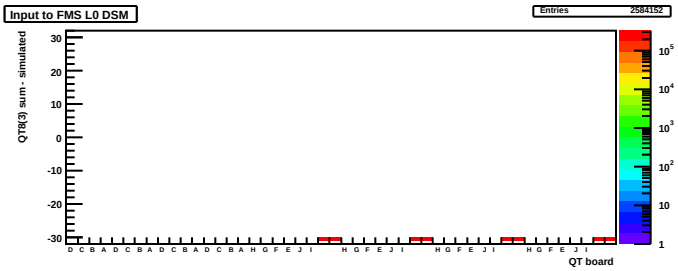

Input to FMS L0 DSM
Entries 1.550491e+07
QT8(1) sum
QT board

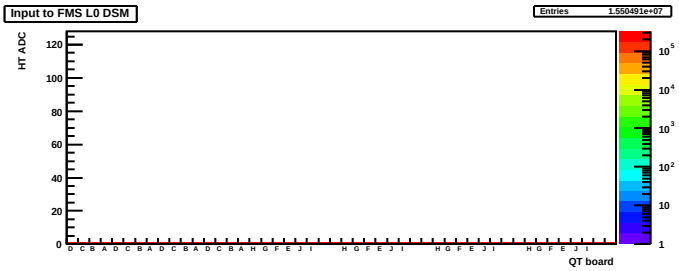

Input to FMS L0 DSM
Entries 2584152
QT8(1) sum - simulated
QT board

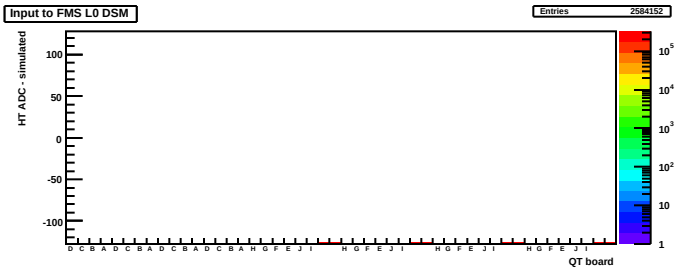

Input to FMS L0 DSM
Entries 1.550491e+07
QT8(2) sum
QT board

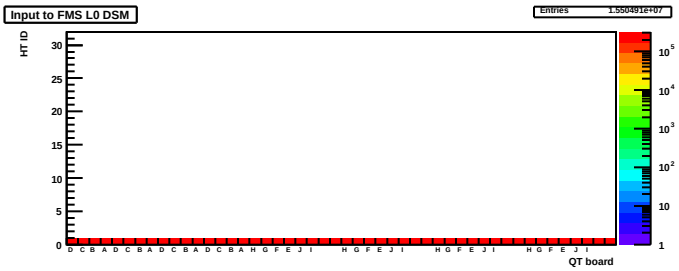

Input to FMS L0 DSM
Entries 2584152
QT8(2) sum - simulated
QT board

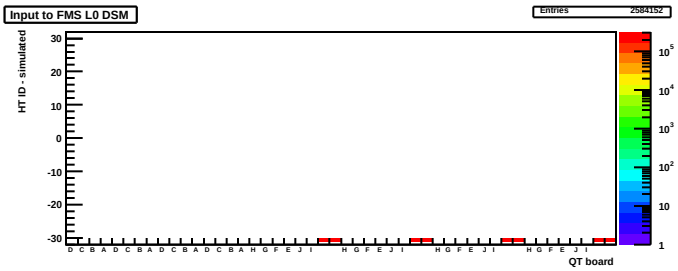

Input to FMS L0 DSM
Entries 1.550491e+07
QT8(3) sum
QT board

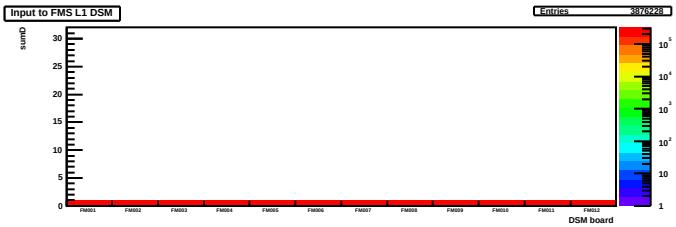

Input to FMS L0 DSM
Entries 2584152
QT8(3) sum - simulated
QT board

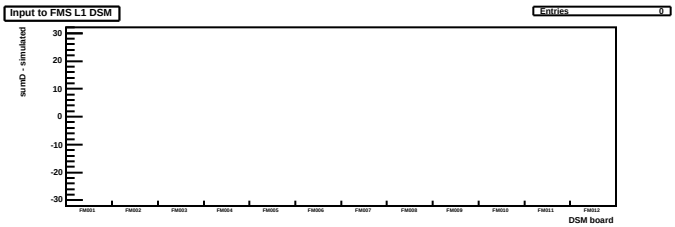

Input to FMS L0 DSM
Entries 1.550491e+07
HT ADC
QT board

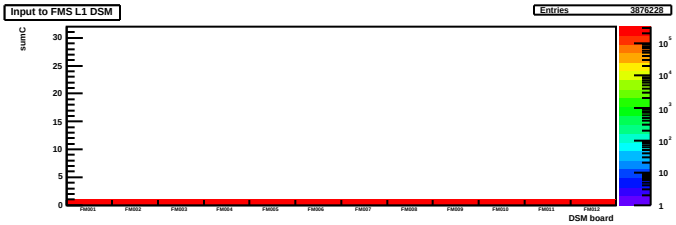

Input to FMS L0 DSM
Entries 2584152
HT ADC - simulated
QT board

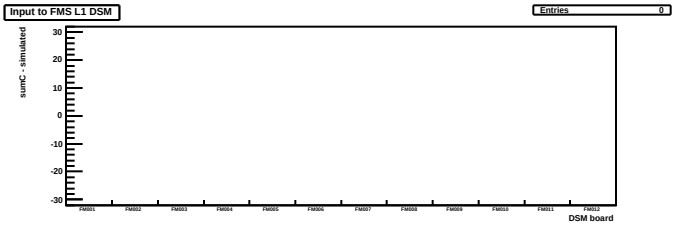

Input to FMS L0 DSM
Entries 1.550491e+07
HT ID
QT board

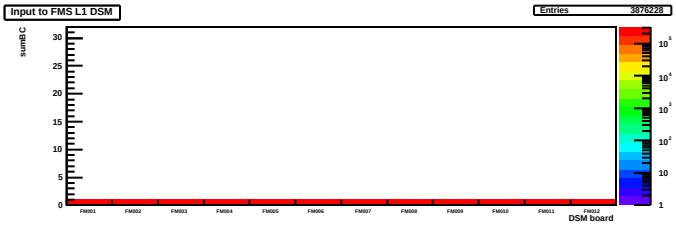

Input to FMS L0 DSM
Entries 2584152
HT ID - simulated
QT board

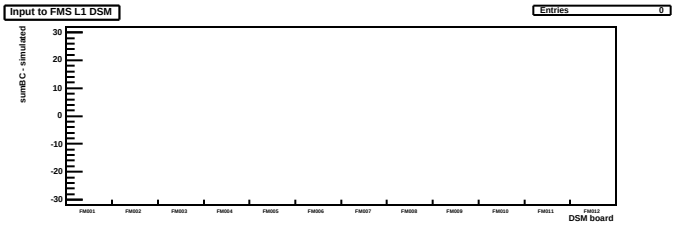

Input to FMS L1 DSM
Entries 3876228
sumD
DSM board

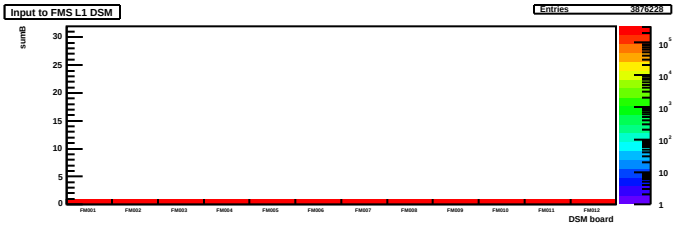

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

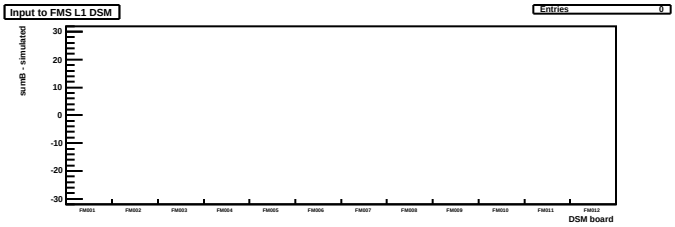

Input to FMS L1 DSM
Entries 3876228
sumC
DSM board

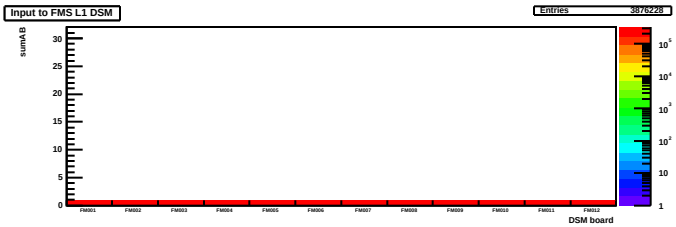

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

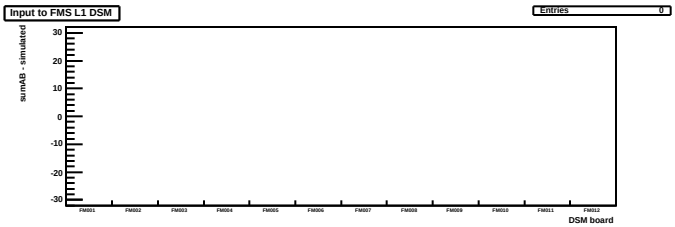

Input to FMS L1 DSM
Entries 3876228
sumBC
DSM board

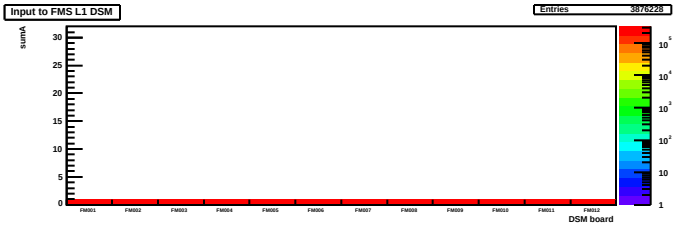

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

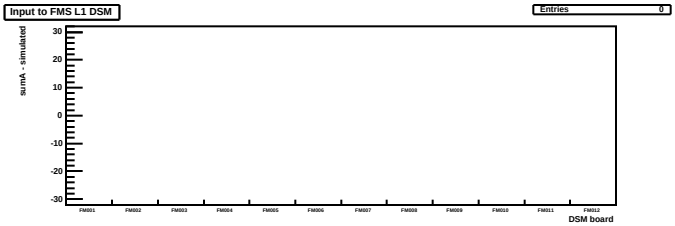

Input to FMS L1 DSM
Entries 3876228
sumB
DSM board

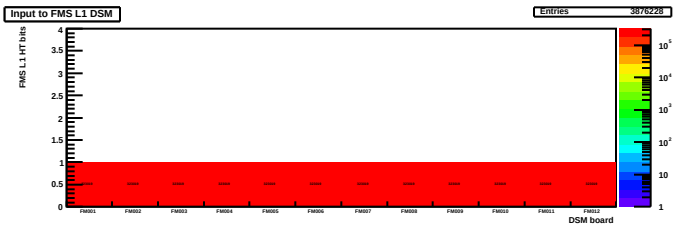

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

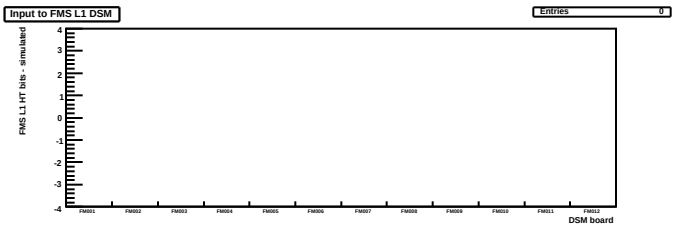

Input to FMS L1 DSM
Entries 3876228
sumAB
DSM board

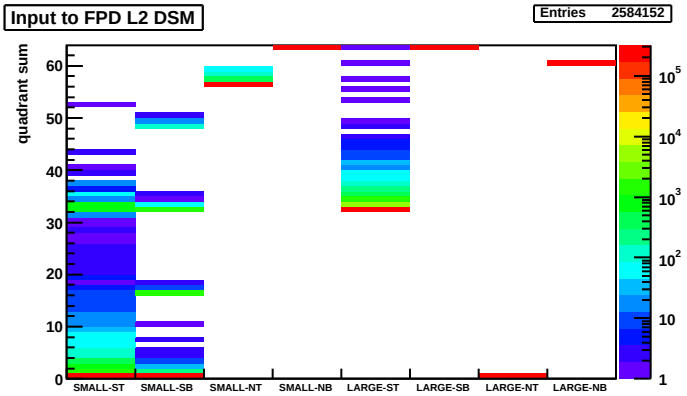

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

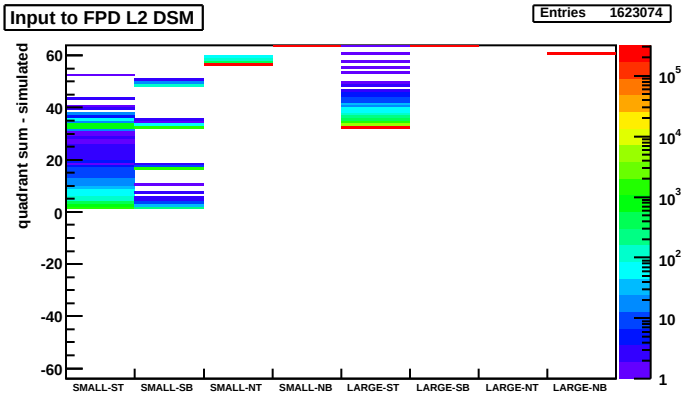

Input to FMS L1 DSM
Entries 3876228
sumA
DSM board

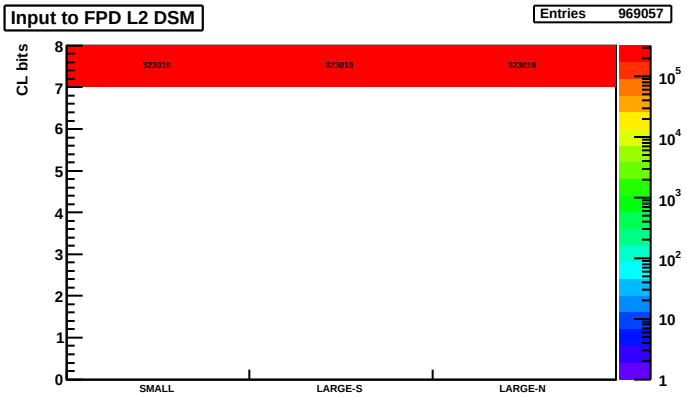

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

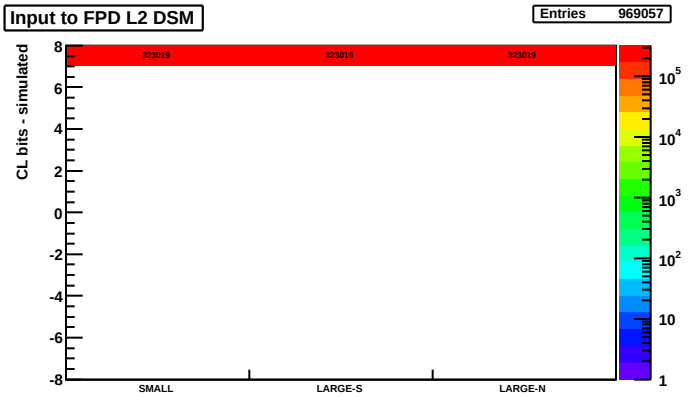

Input to FMS L1 DSM
Entries 3876228
FMS L1 HT bits
DSM board

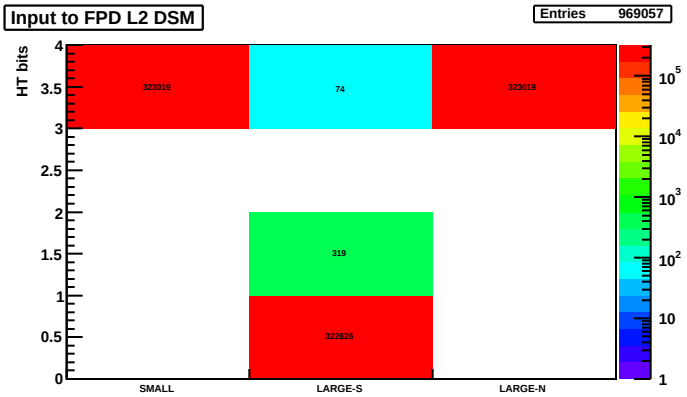

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

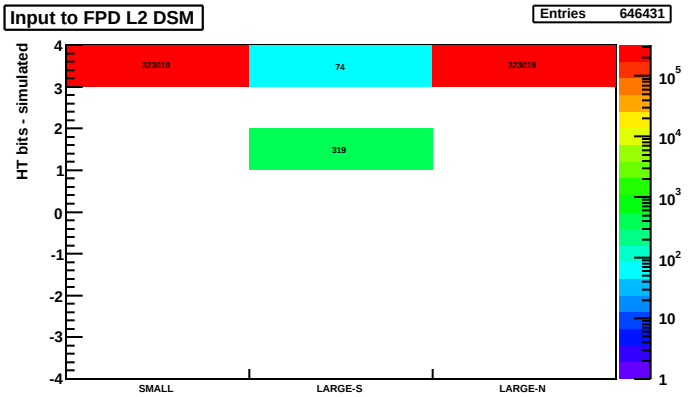

Input to FPD L2 DSM
Entries 2584152
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

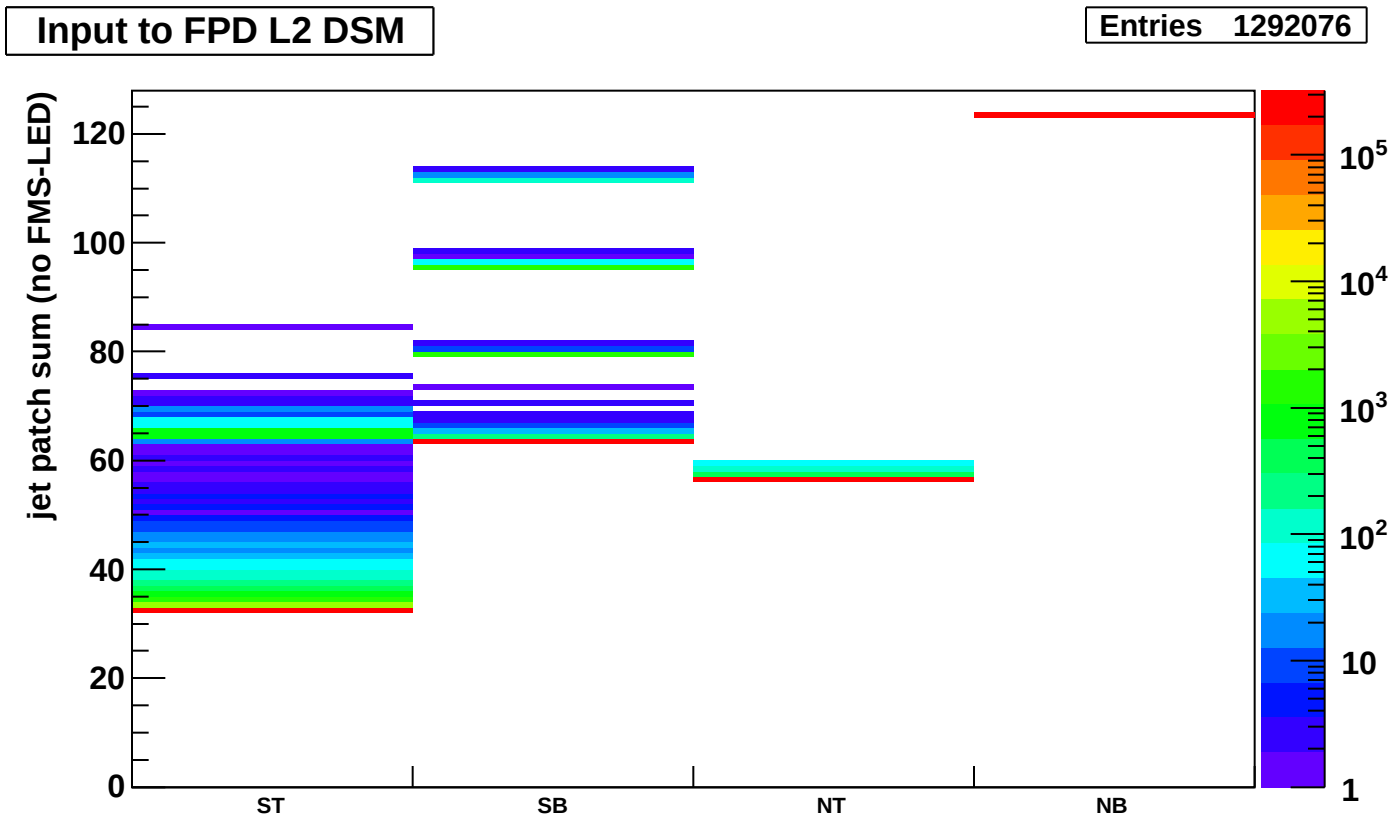

Input to FPD L2 DSM
Entries 1623074
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

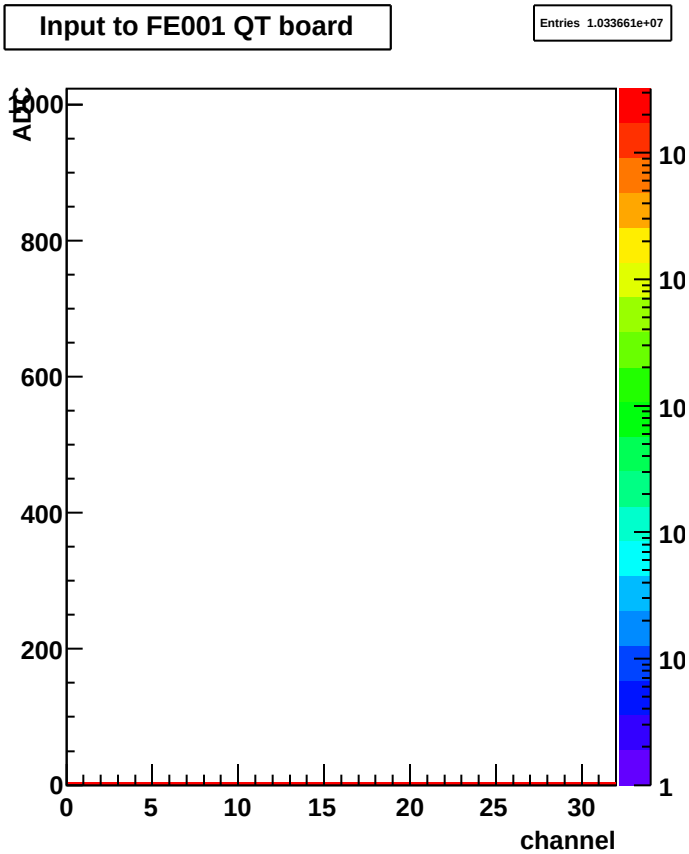

Input to FPD L2 DSM
Entries 969057
CL bits
323019
323019
323019
SMALL
LARGE-S
LARGE-N

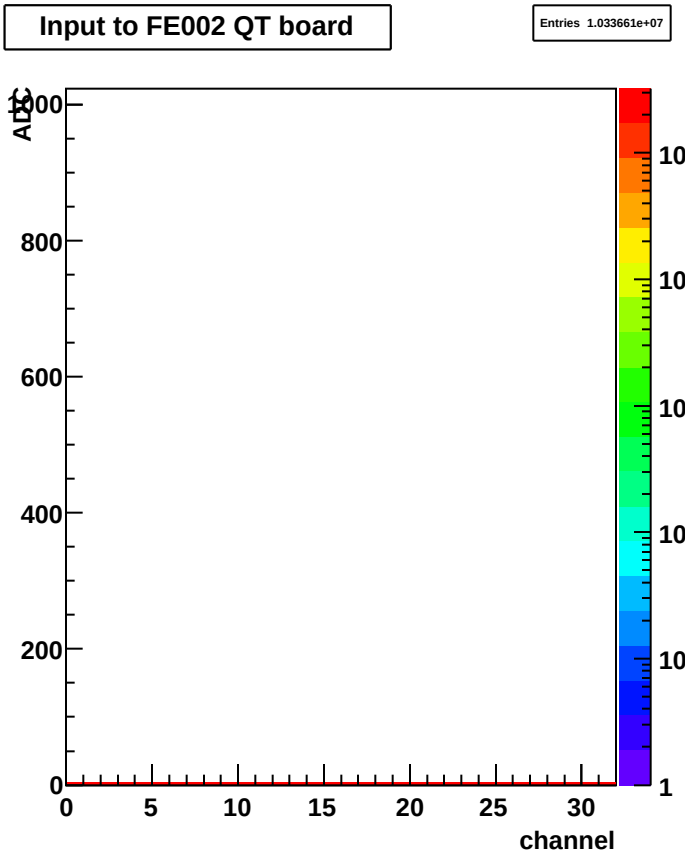

Input to FPD L2 DSM
Entries 969057
CL bits - simulated
323019
323019
323019
SMALL
LARGE-S
LARGE-N

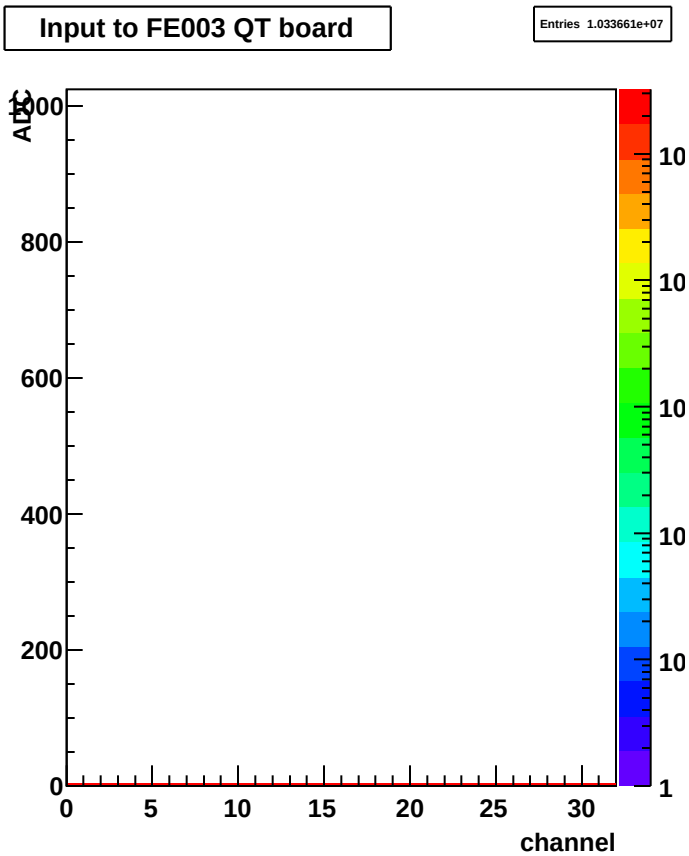

Input to FPD L2 DSM
Entries 969057
HT bits
323019
74
323019
319
322626
SMALL
LARGE-S
LARGE-N

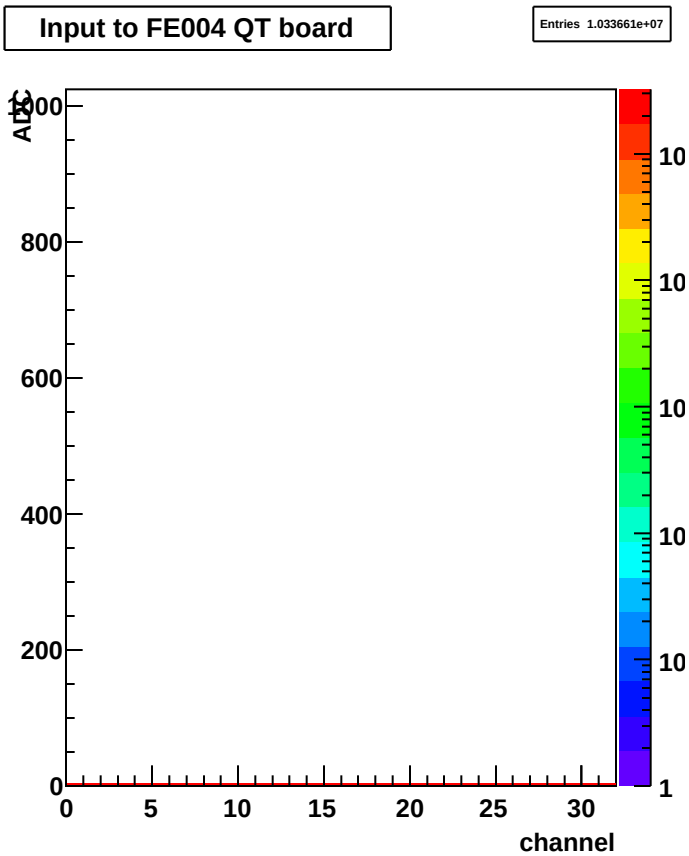

Input to FPD L2 DSM
Entries 646431
HT bits - simulated
323019
74
323019
319
SMALL
LARGE-S
LARGE-N

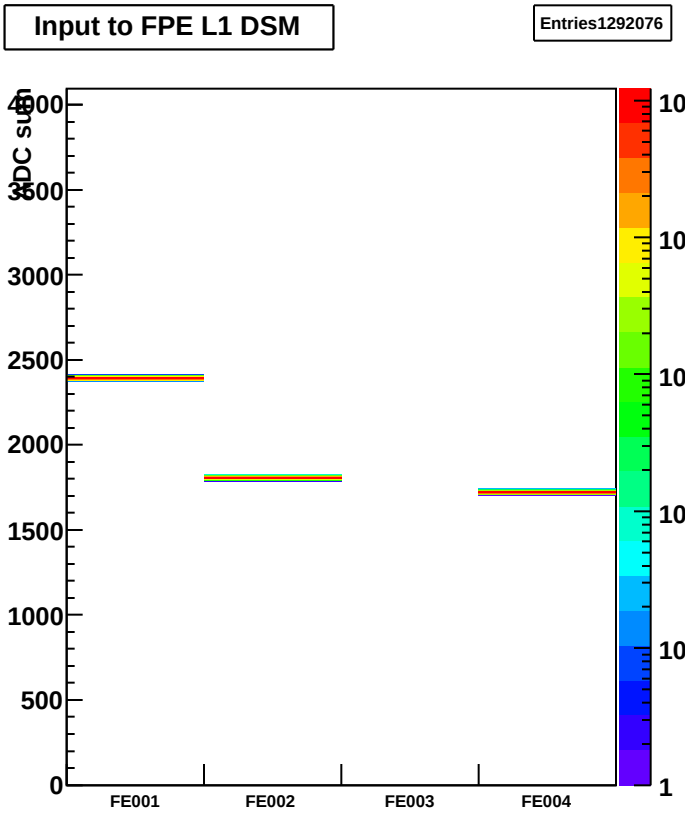

Input to FPD L2 DSM
Entries 1292076
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

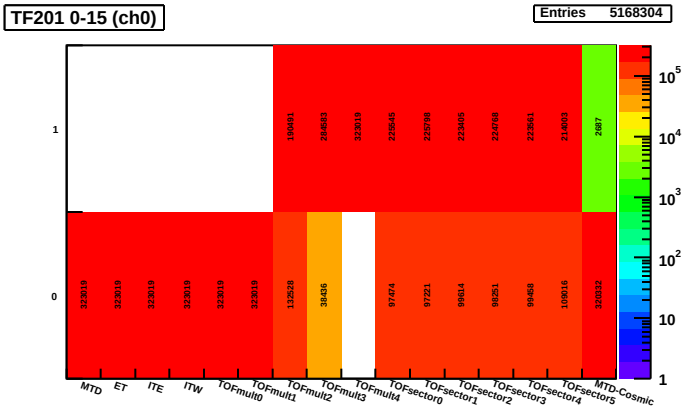

Input to FE001 QT board
Entries 1.033661e+07
ADC
channel

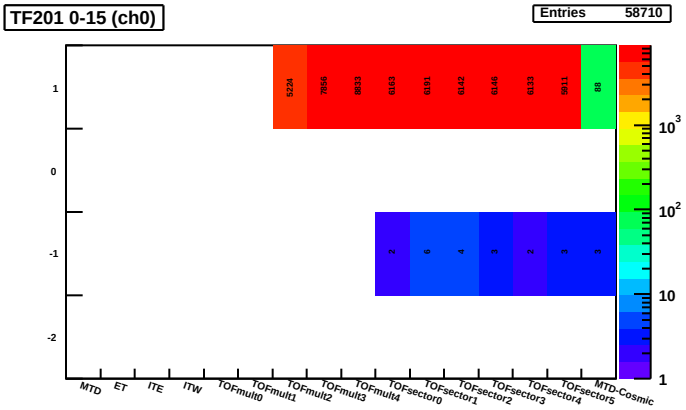

Input to FE002 QT board
Entries 1.033661e+07
ADC
channel

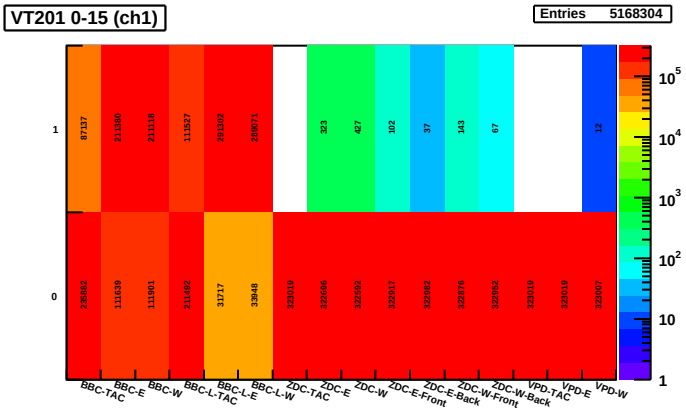

Input to FE003 QT board
Entries 1.033661e+07
ADC
channel

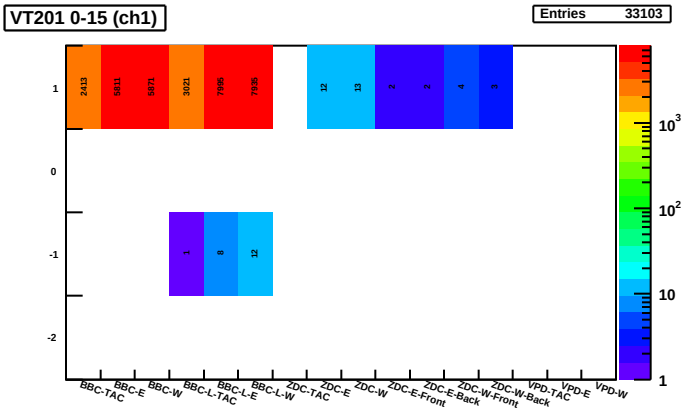

Input to FE004 QT board
Entries 1.033661e+07
ADC
channel

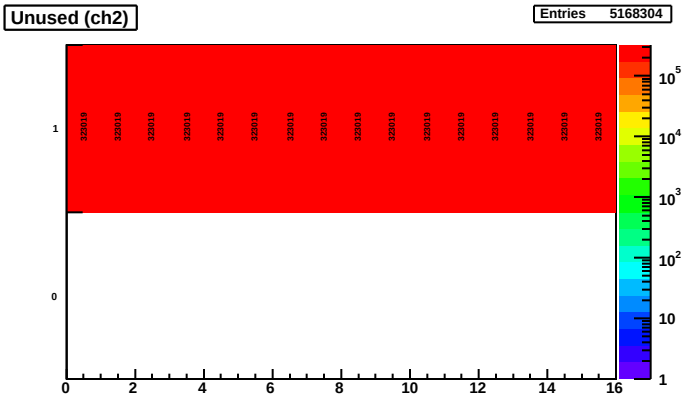

Input to FPE L1 DSM
Entries1292076
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

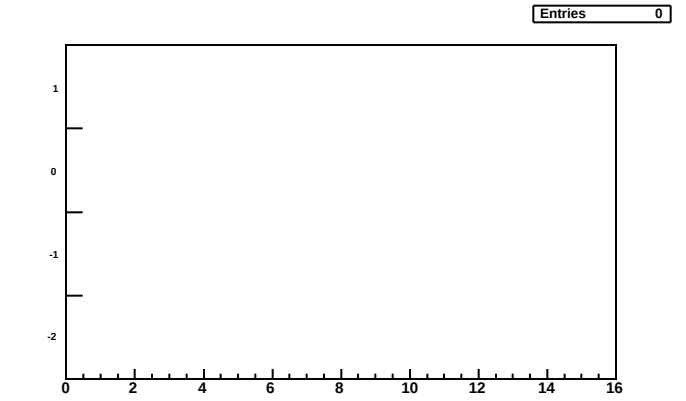

TF201 0-15 (ch0)
Entries 5168304
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

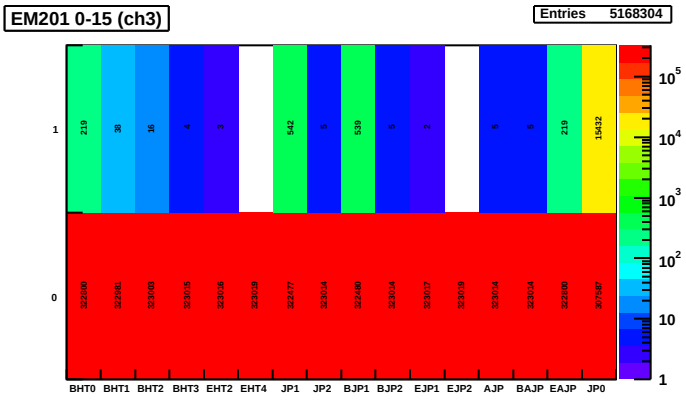

TF201 0-15 (ch0)
Entries 58710
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

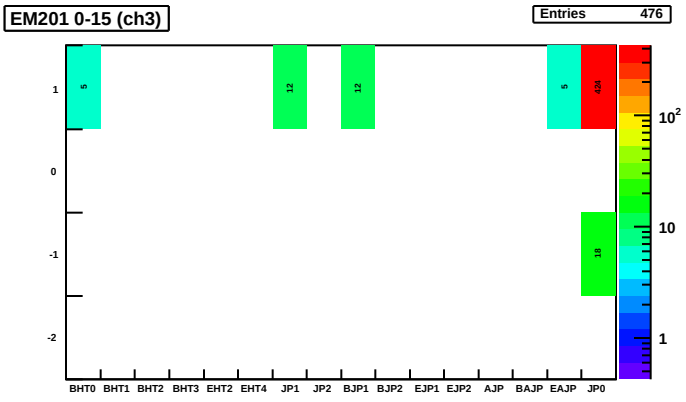

VT201 0-15 (ch1)
Entries 5168304
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 33103
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

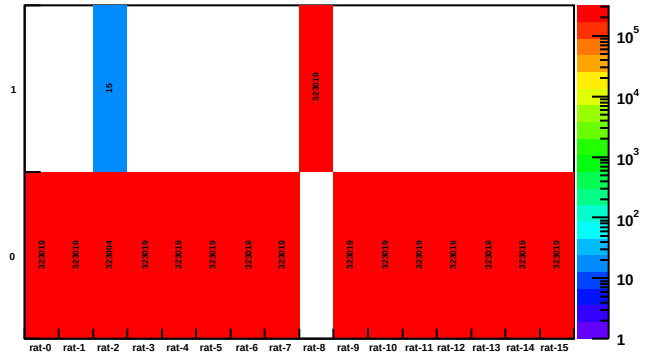

Unused (ch2)
Entries 5168304

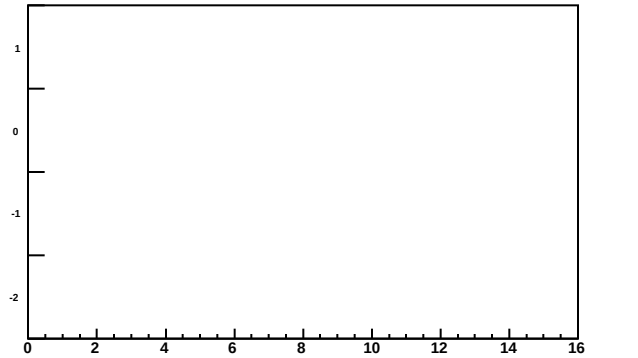

Entries 0


EM201 0-15 (ch3)
Entries 5168304
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

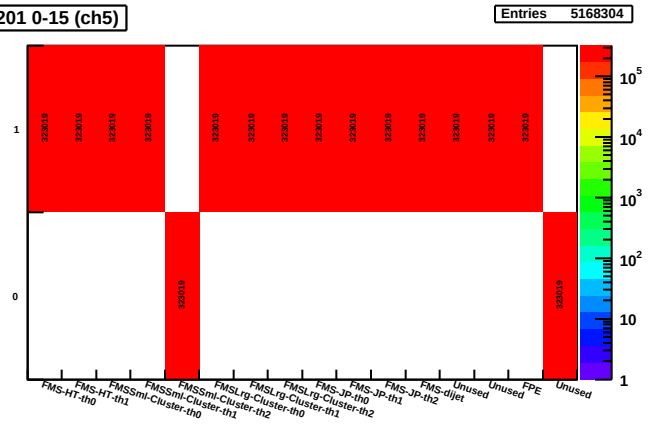

EM201 0-15 (ch3)
Entries 476
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

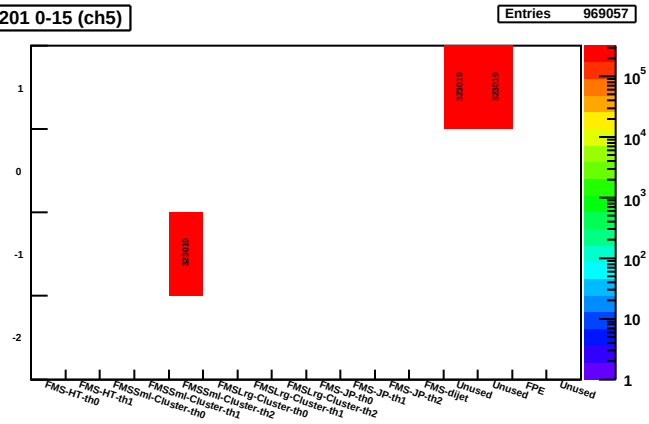




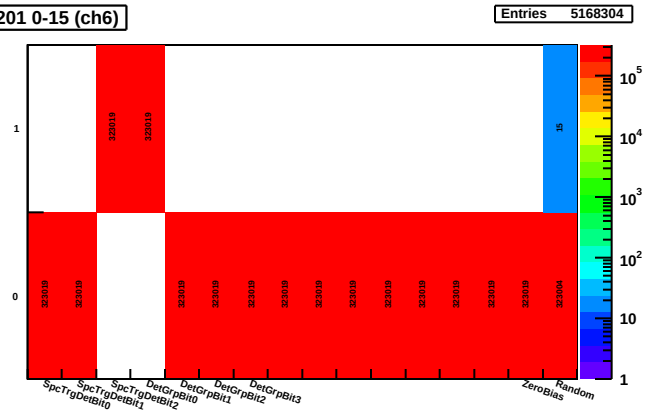
FP201 0-15 (ch5)

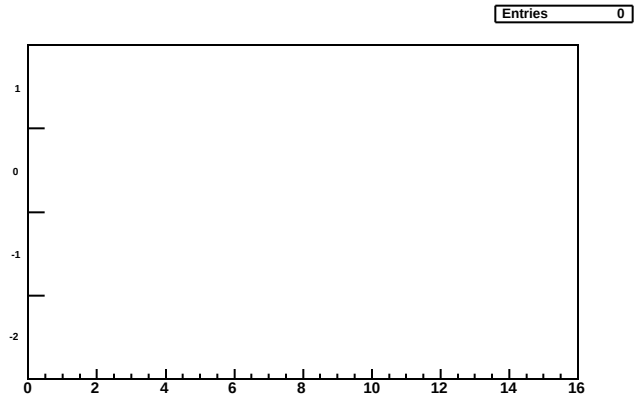
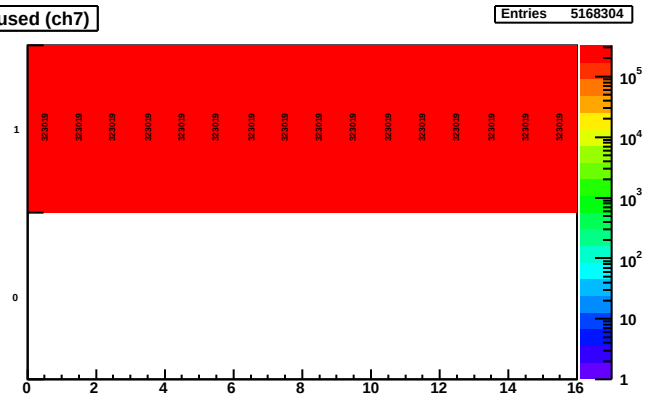
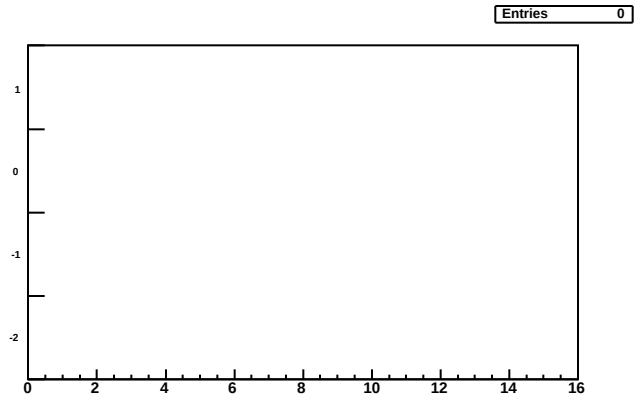


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)