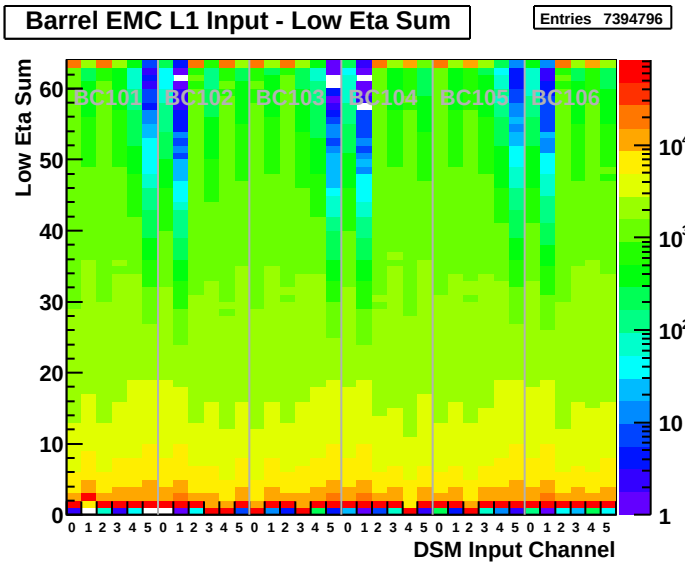
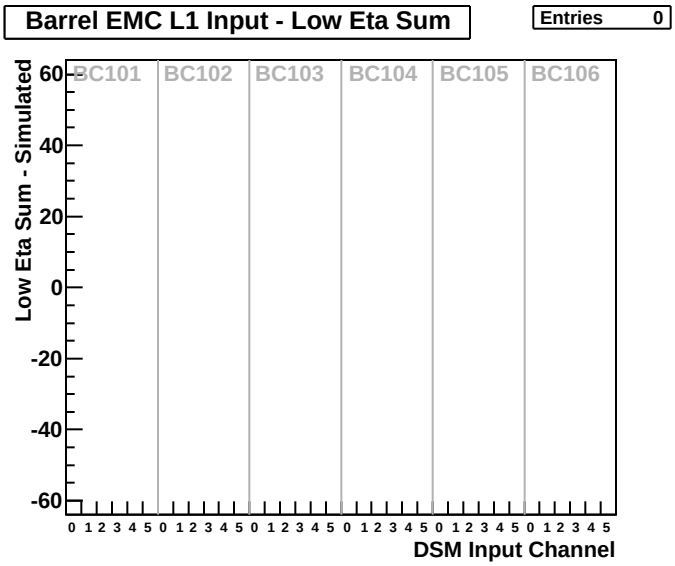
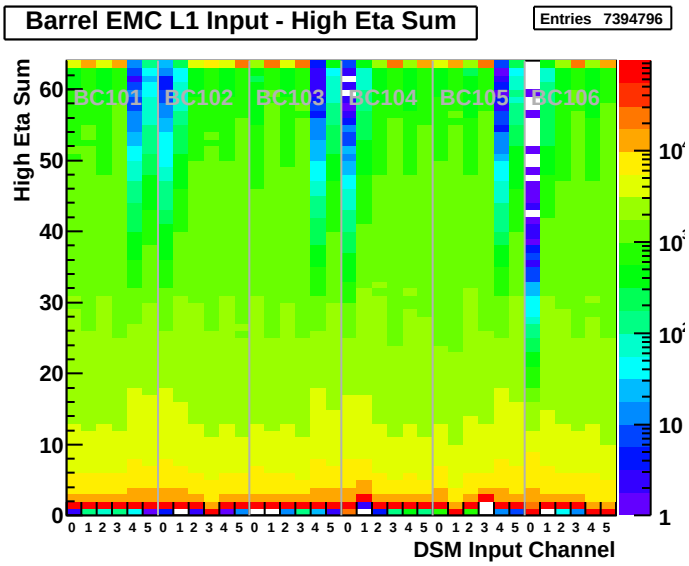
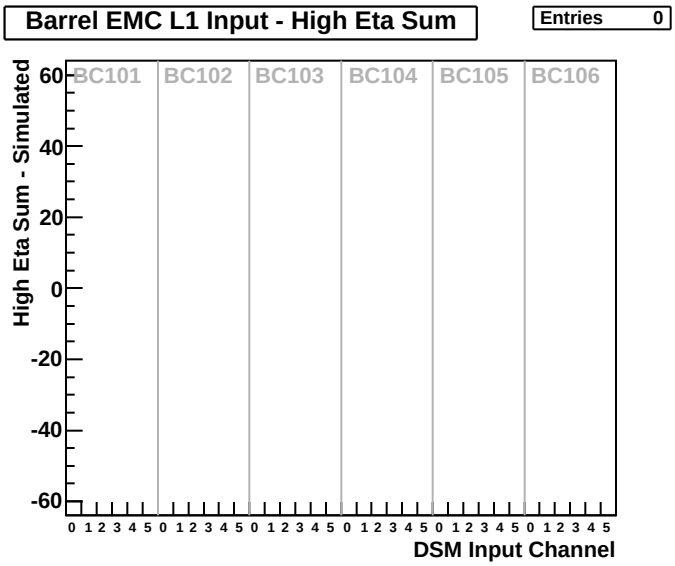
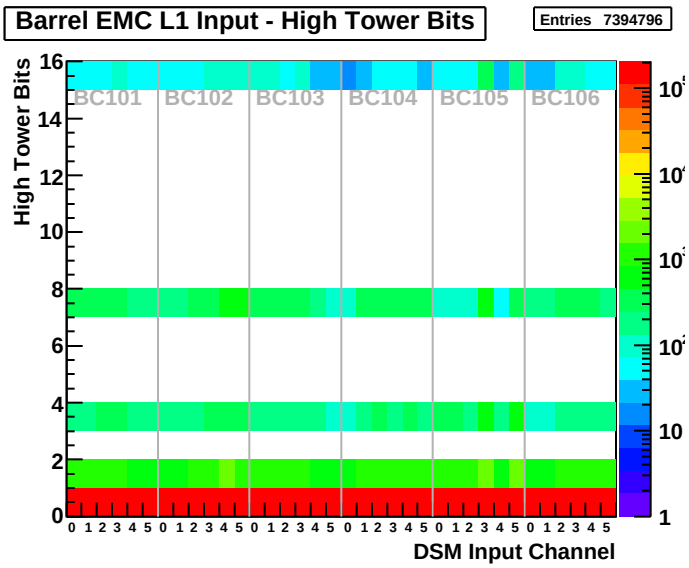
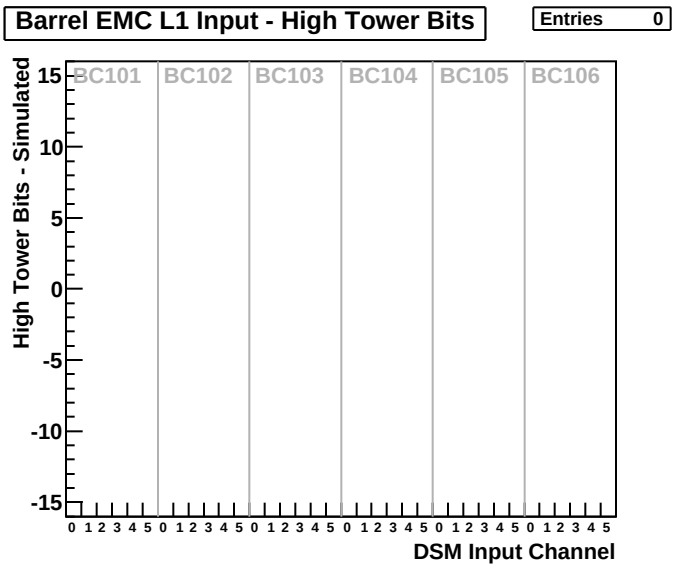

Barrel EMC L1 Input - Low Eta Sum
Entries 7394796
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

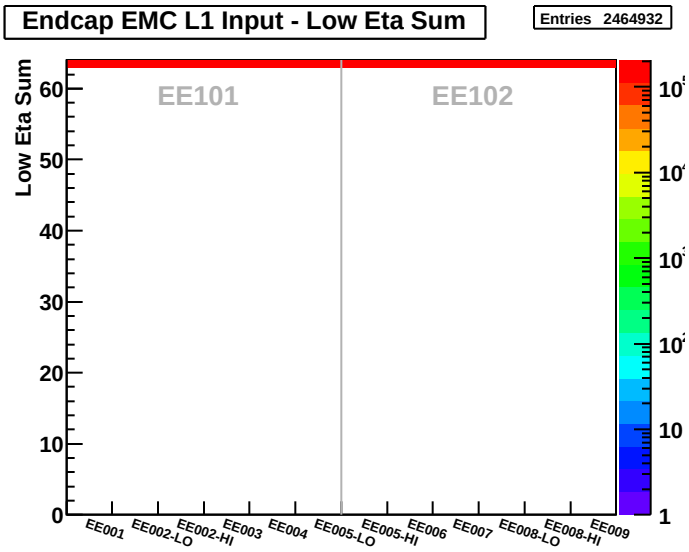

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

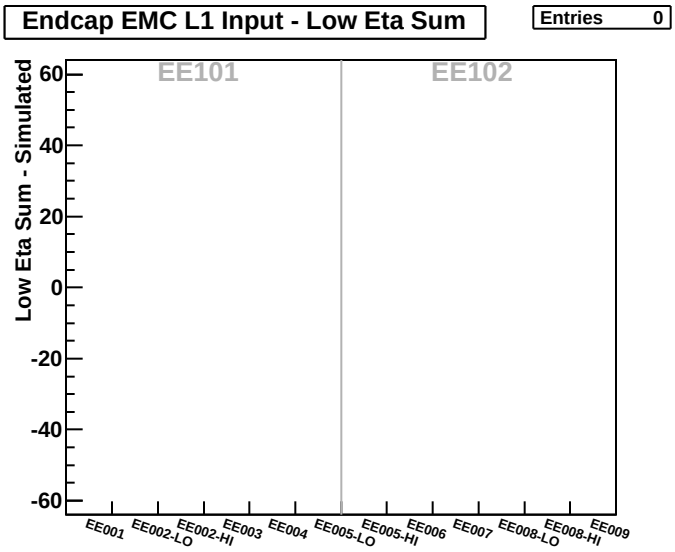

Barrel EMC L1 Input - High Eta Sum
Entries 7394796
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

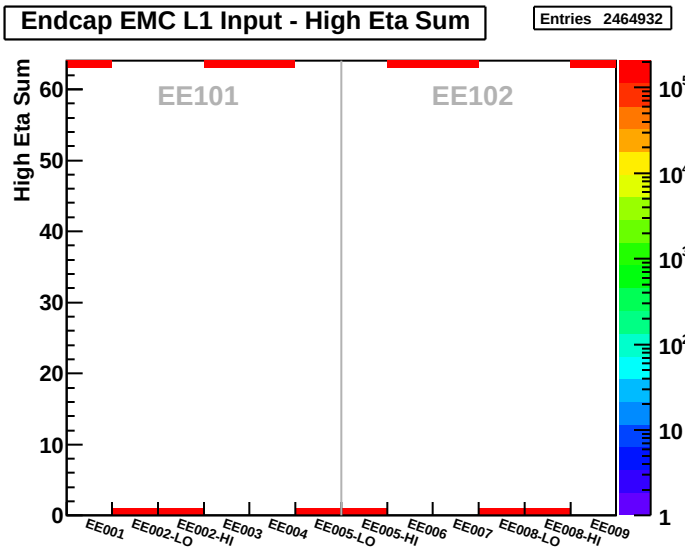

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

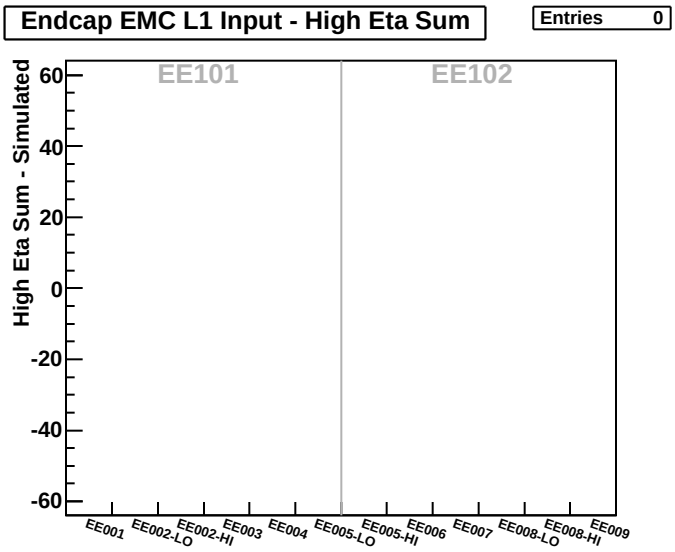

Barrel EMC L1 Input - High Tower Bits
Entries 7394796
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

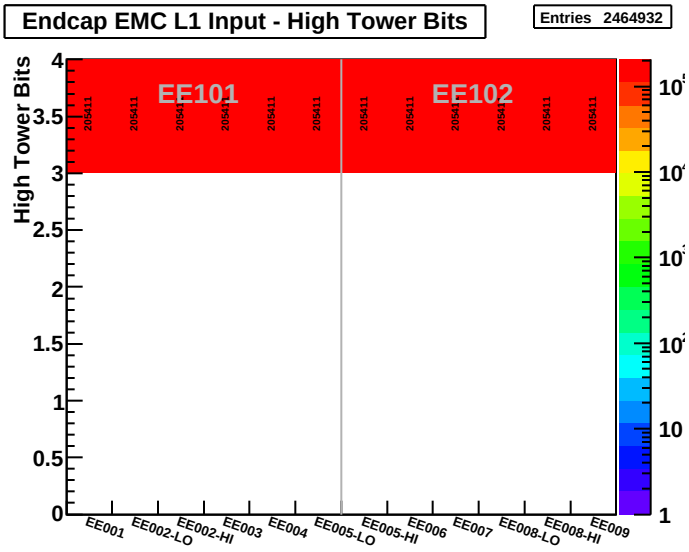

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

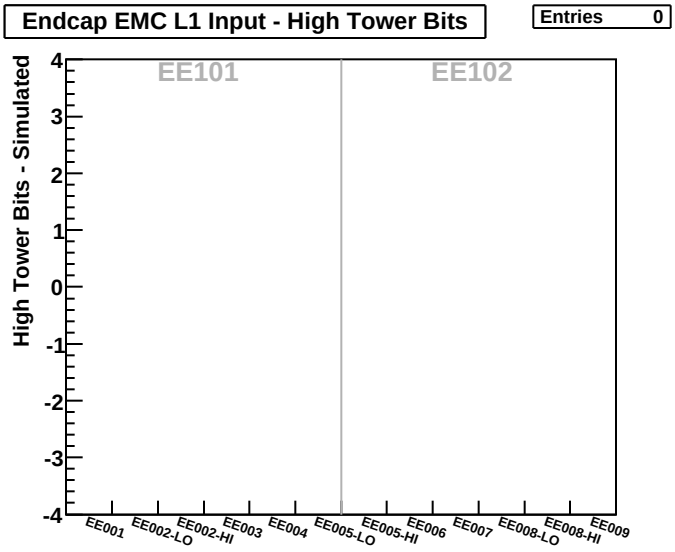

Endcap EMC L1 Input - Low Eta Sum
Entries 2464932
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

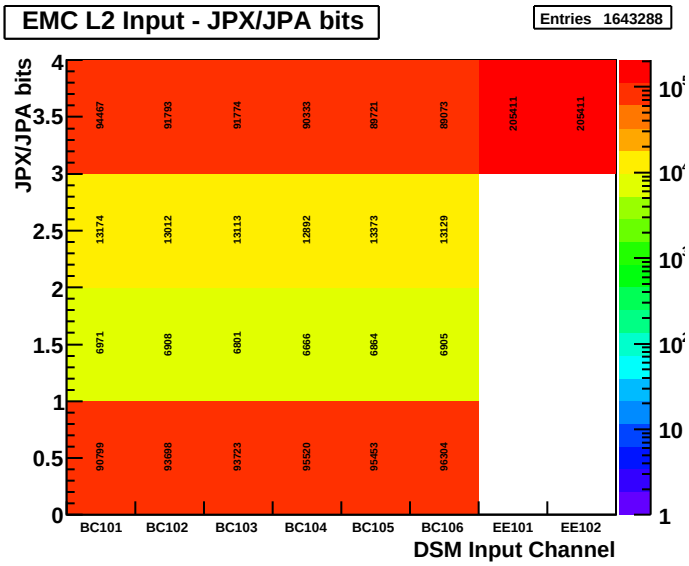

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

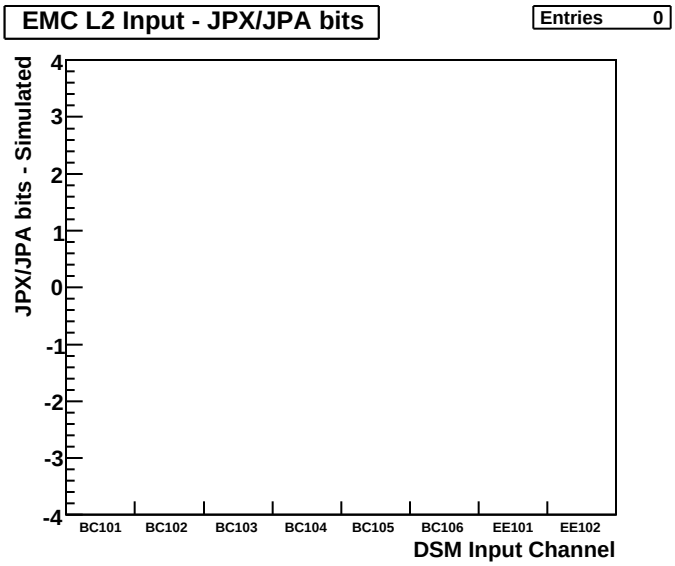

Endcap EMC L1 Input - High Eta Sum
Entries 2464932
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

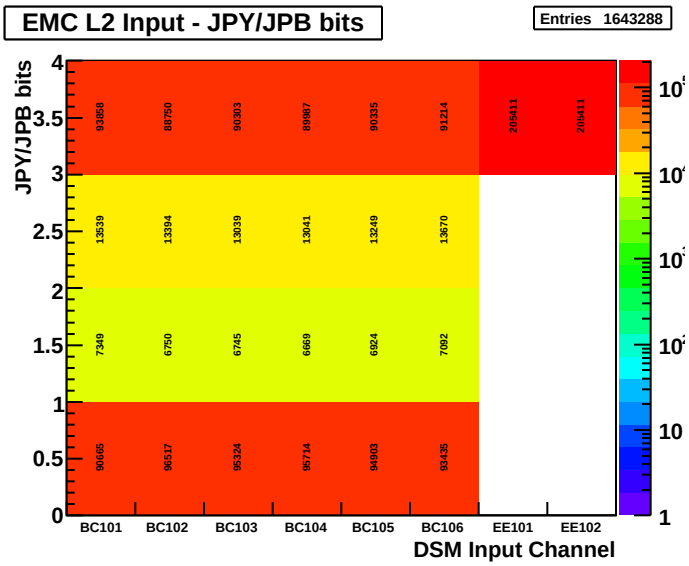

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

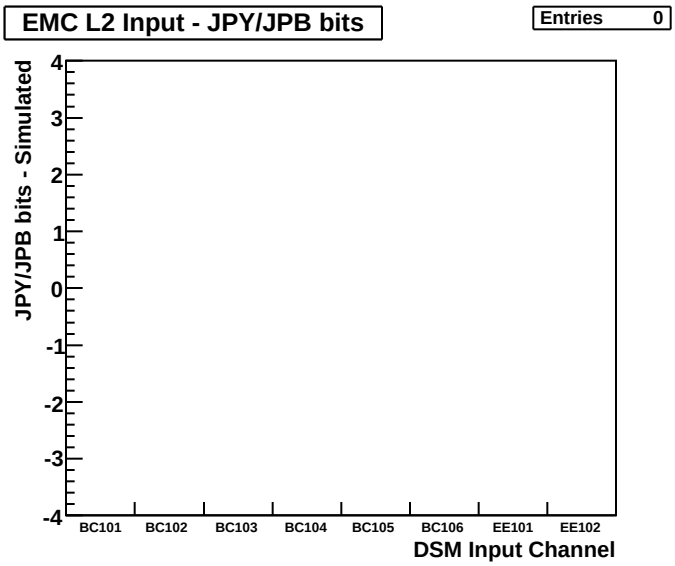

Endcap EMC L1 Input - High Tower Bits
Entries 2464932
High Tower Bits
EE101
EE102
205411
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

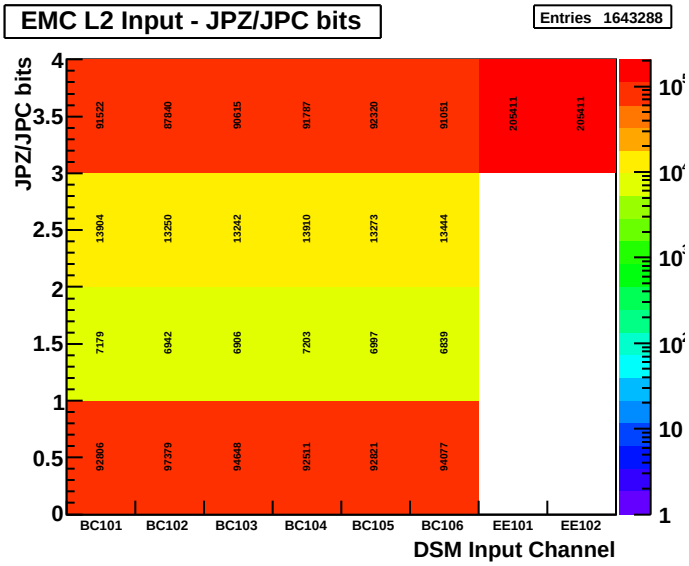

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

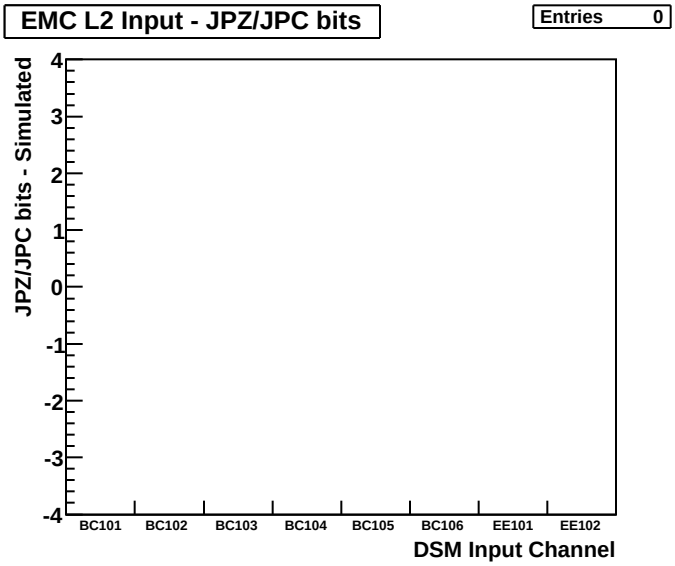

EMC L2 Input - JPX/JPA bits
Entries 1643288
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
94467 91783 91774 90333 89721 89073 205411 205411
13174 13012 13113 12892 13373 13129
6971 6908 6801 6666 6864 6905
90799 93698 93723 95520 95453 96304

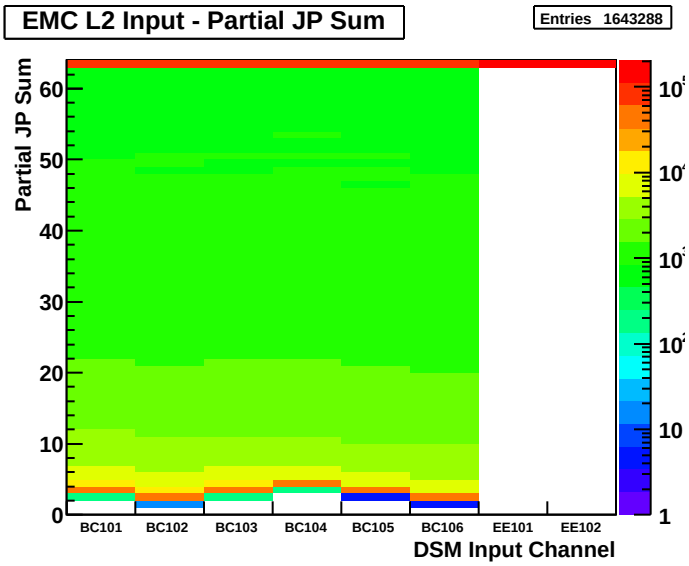

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

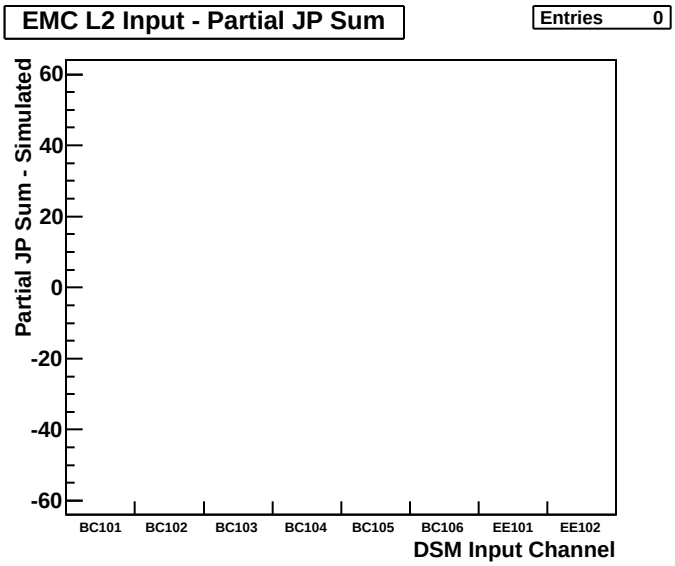

EMC L2 Input - JPY/JPB bits
Entries 1643288
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
93858 88750 90303 89987 90335 91214 205411 205411
13539 13394 13039 13041 13249 13670
7349 6750 6745 6669 6924 7092
90665 96517 95324 95714 94903 93435

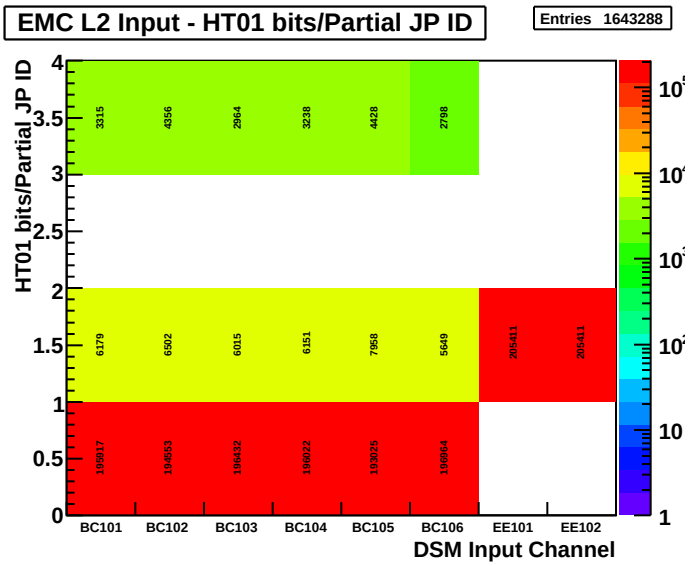

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

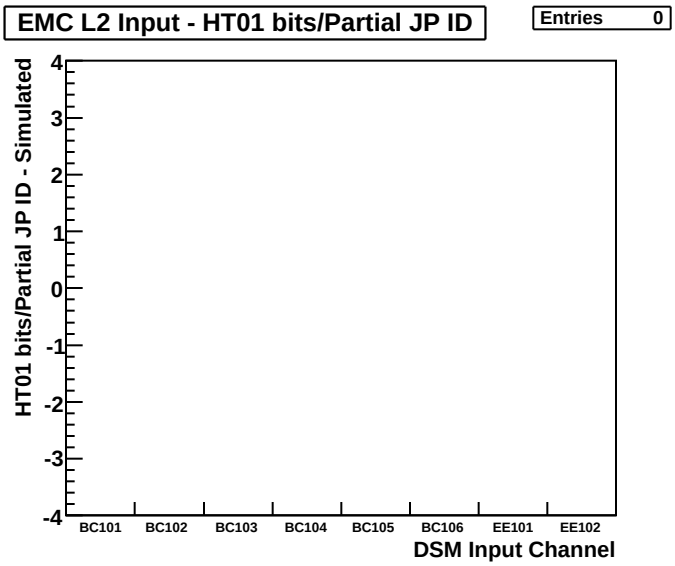

EMC L2 Input - JPZ/JPC bits
Entries 1643288
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
91522 87840 90615 91787 92320 91051 205411 205411
13904 13250 13242 13910 13273 13444
7179 6942 6906 7203 6997 6839
92806 97379 94648 92511 92921 94077

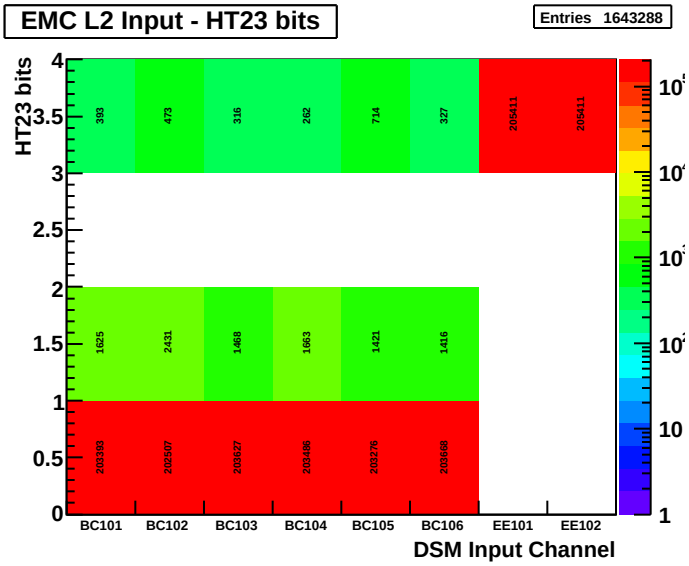

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

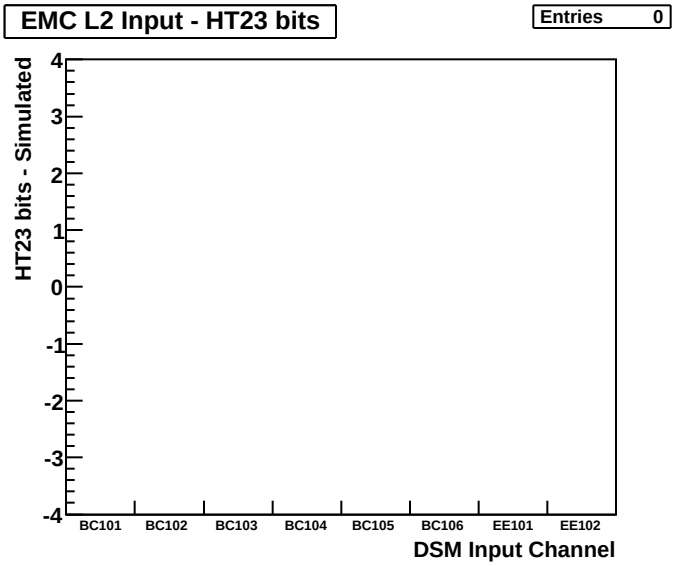

EMC L2 Input - Partial JP Sum
Entries 1643288
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

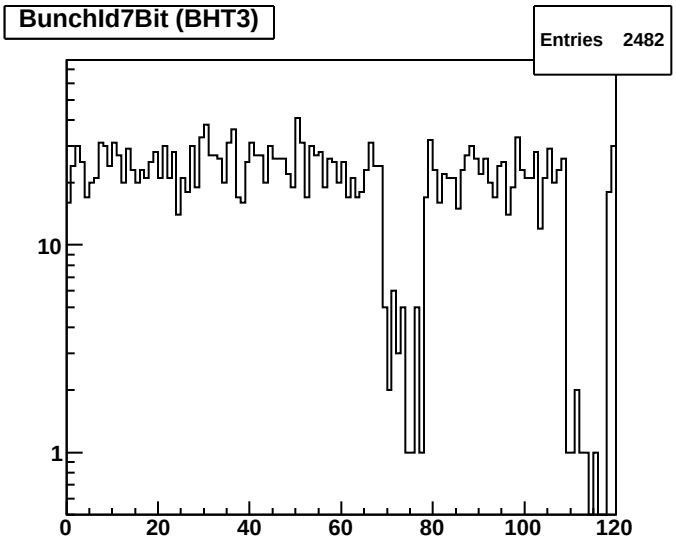

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

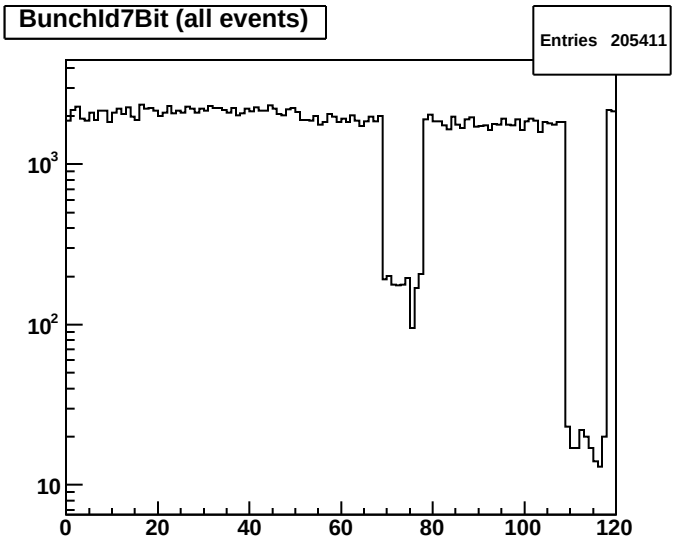

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1643288
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

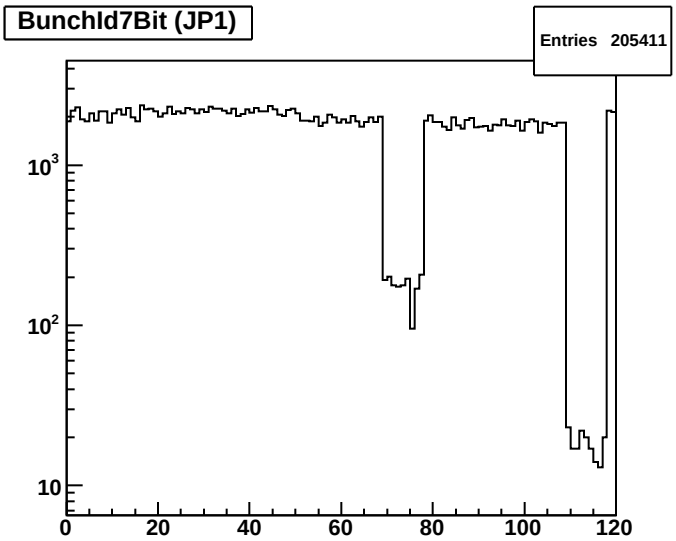

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

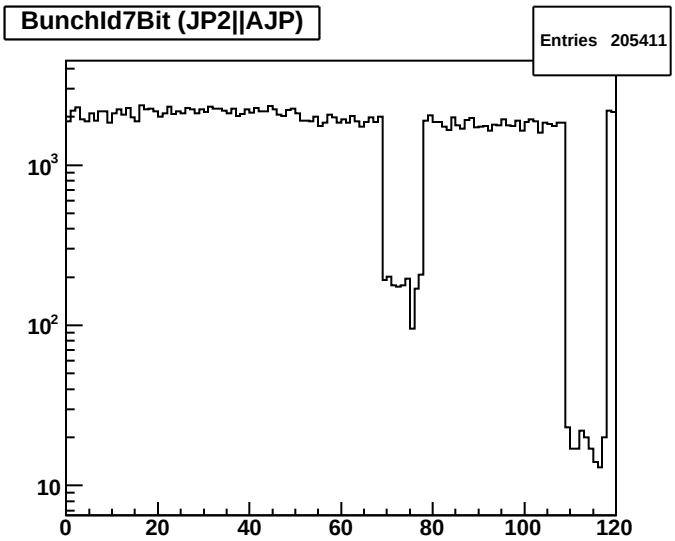

EMC L2 Input - HT23 bits
Entries 1643288
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

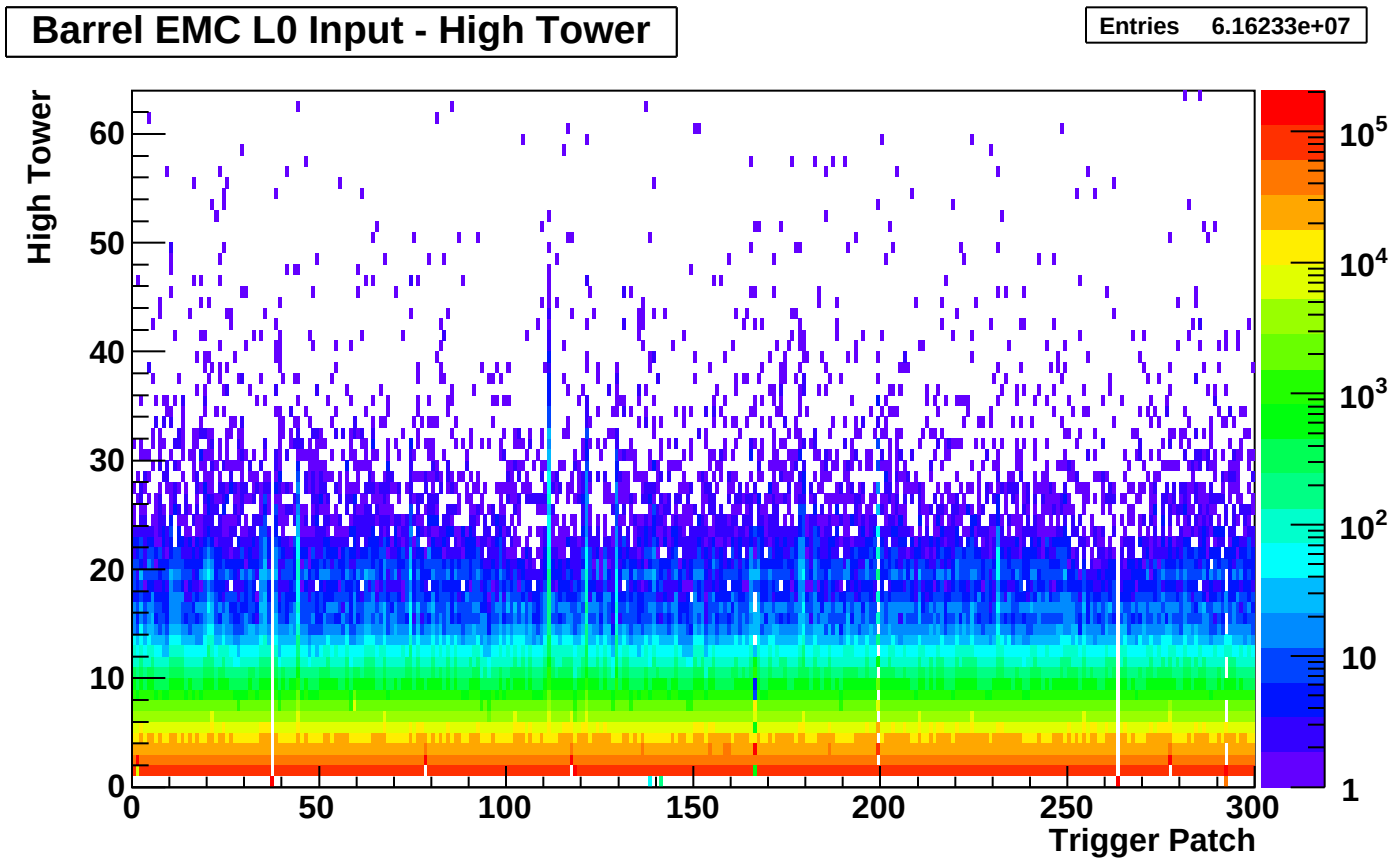

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

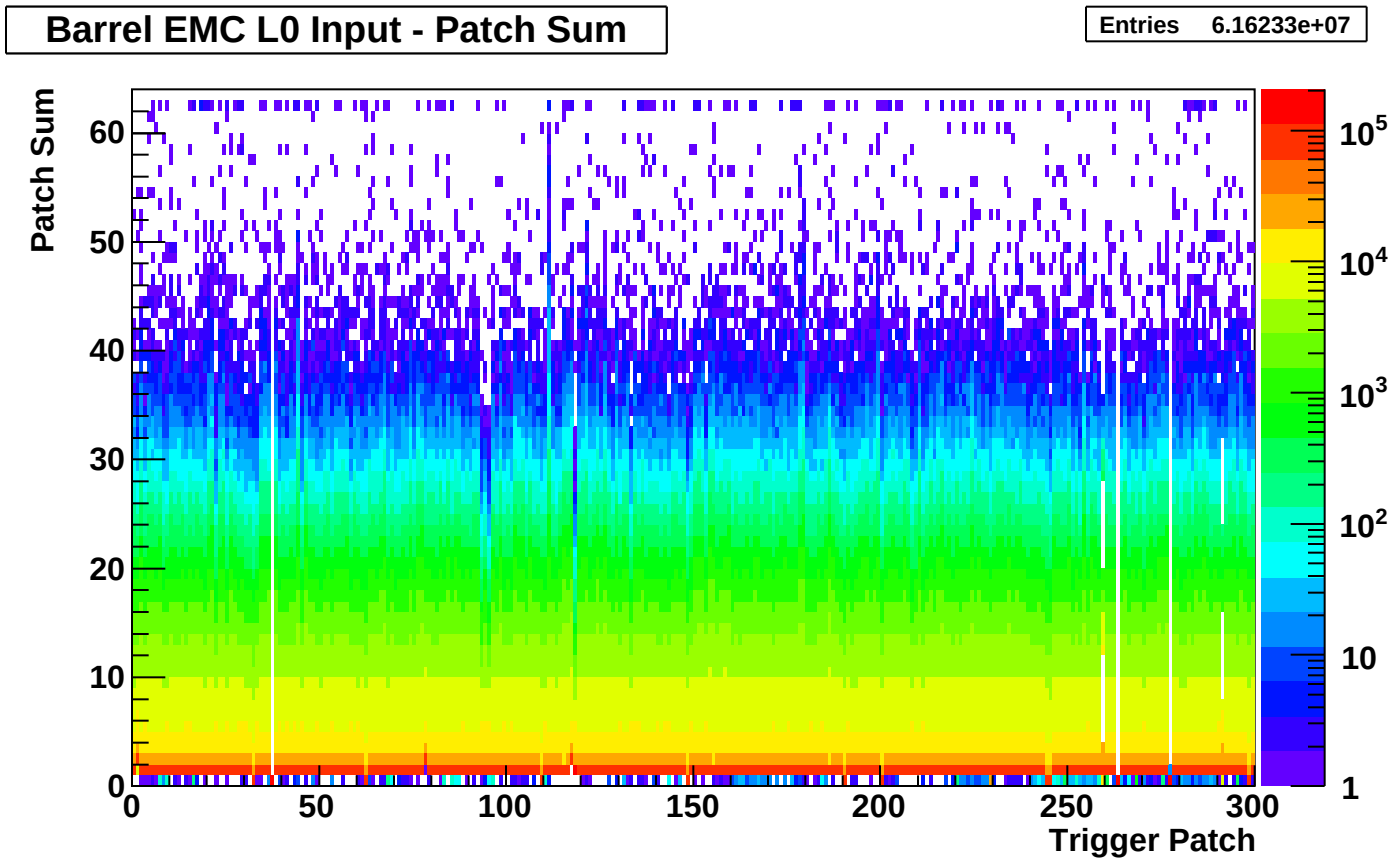

BunchId7Bit (BHT3)
Entries 2482
10
1
0
20
40
60
80
100
120

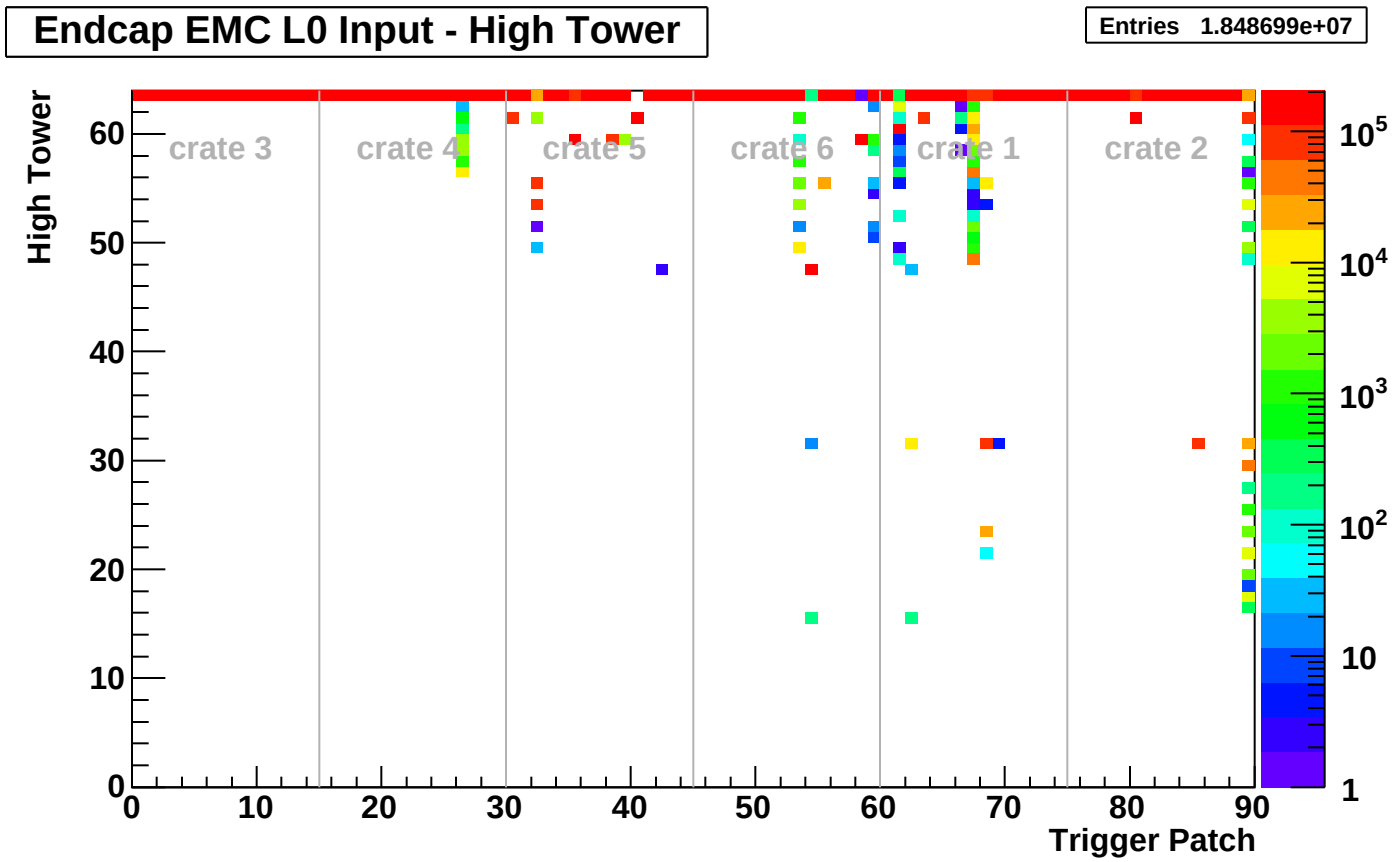

BunchId7Bit (all events)
Entries 205411
10^3
10^2
10
0
20
40
60
80
100
120

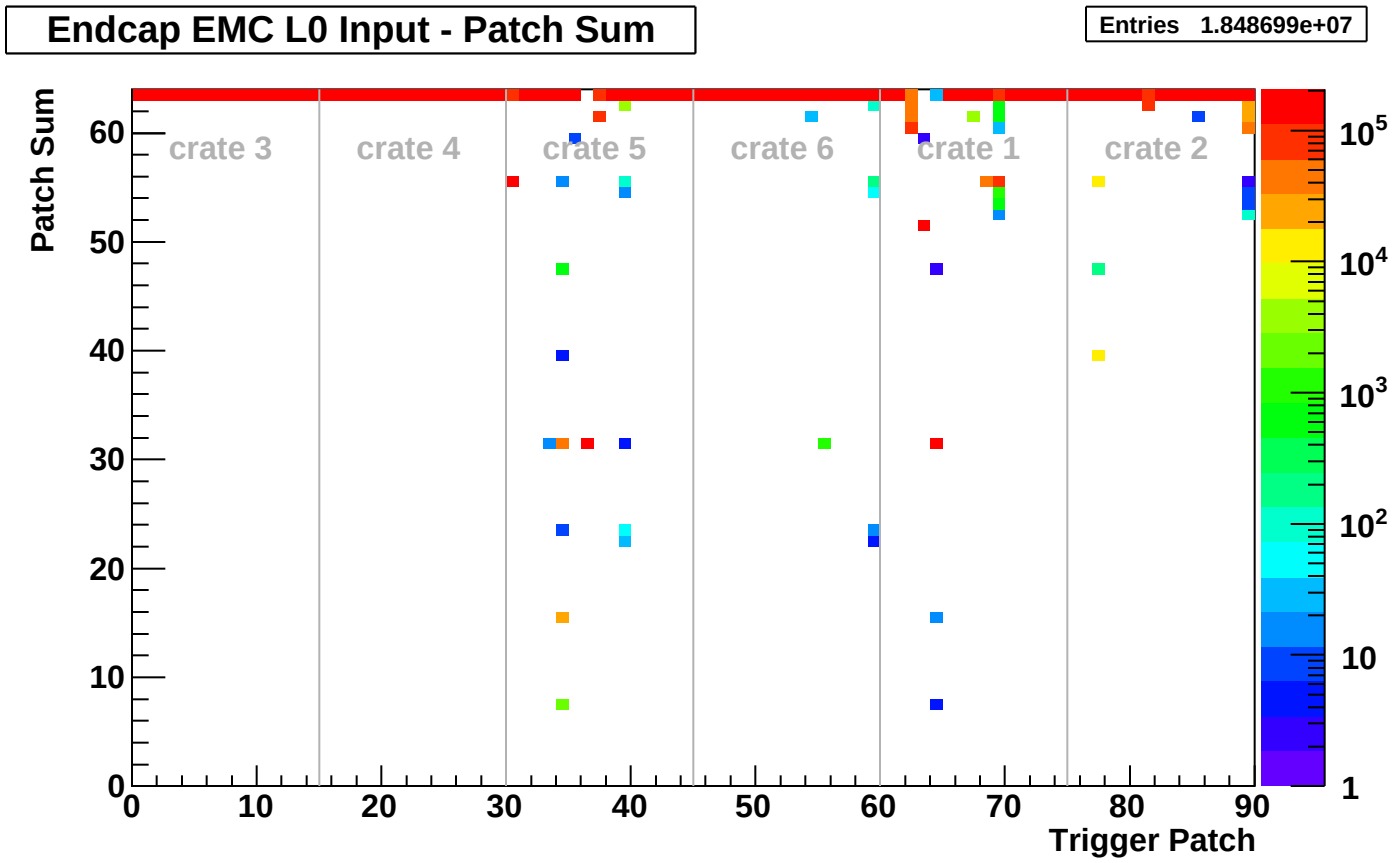

BunchId7Bit (JP1)
Entries 205411
10^3
10^2
10
0
20
40
60
80
100
120

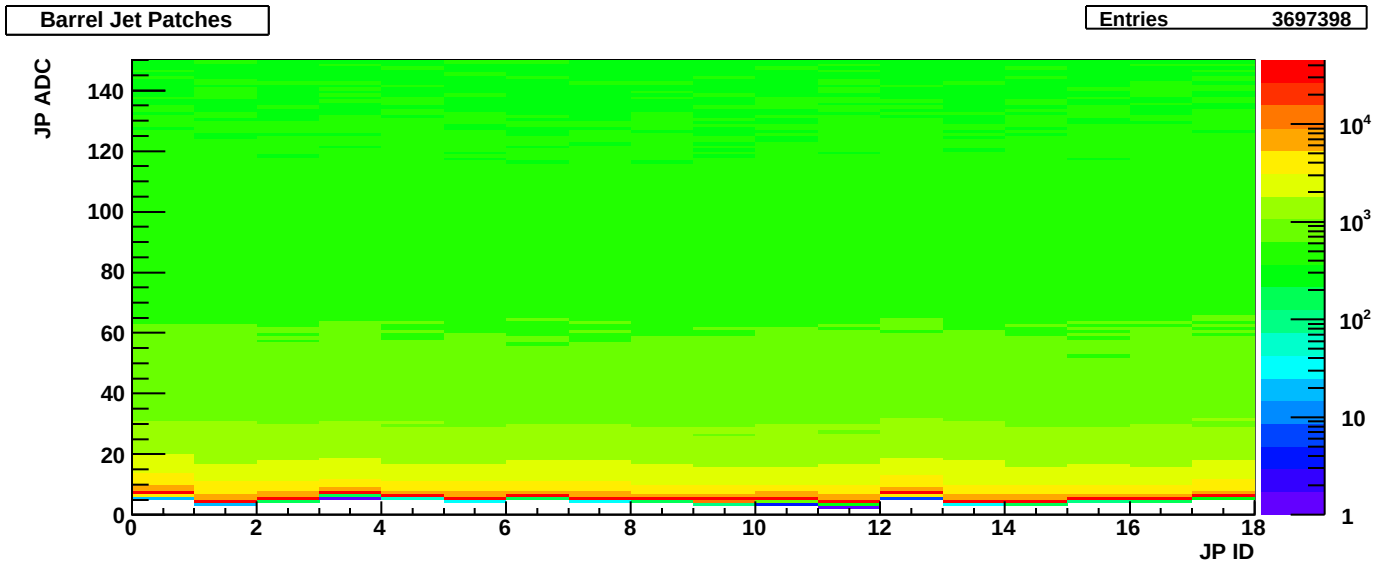

BunchId7Bit (JP2||AJP)
Entries 205411
10^3
10^2
10
0
20
40
60
80
100
120

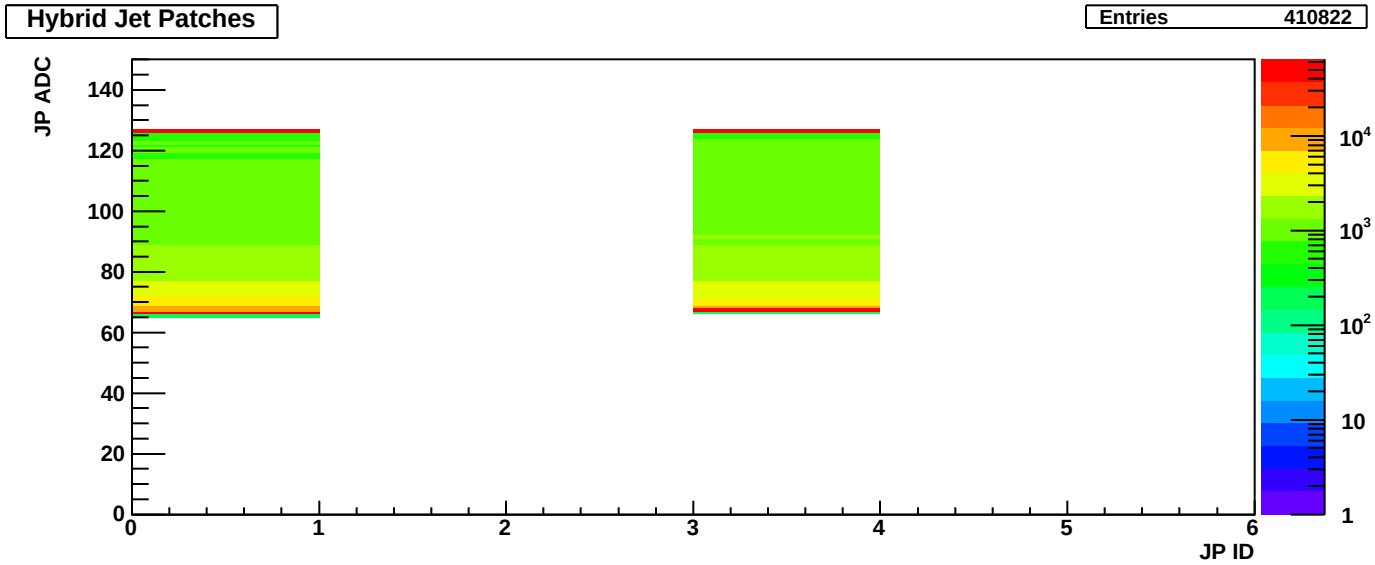

Barrel EMC L0 Input - High Tower
Entries 6.16233e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

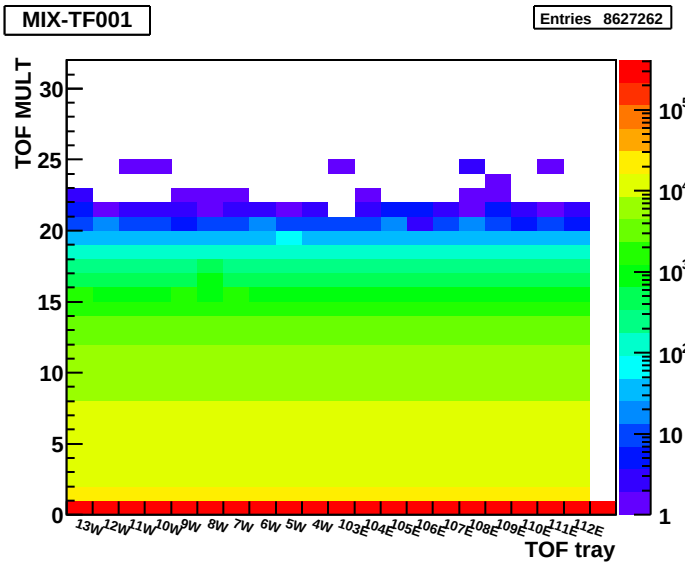

Barrel EMC L0 Input - Patch Sum
Entries 6.16233e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

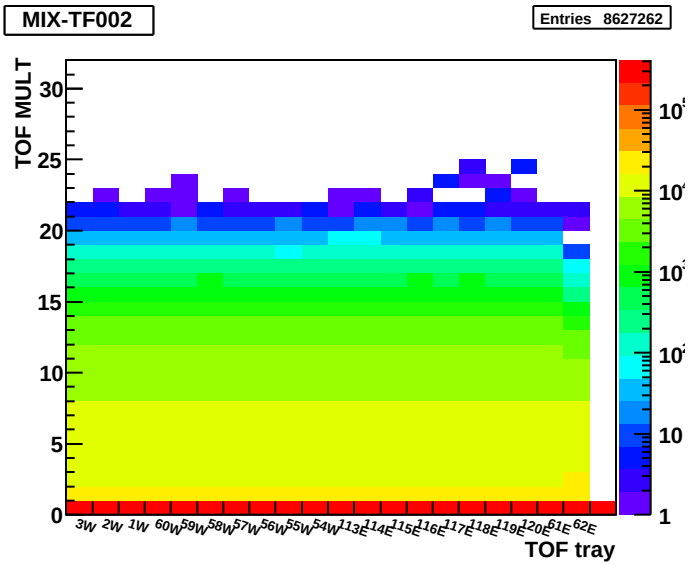

Endcap EMC L0 Input - High Tower
Entries 1.848699e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

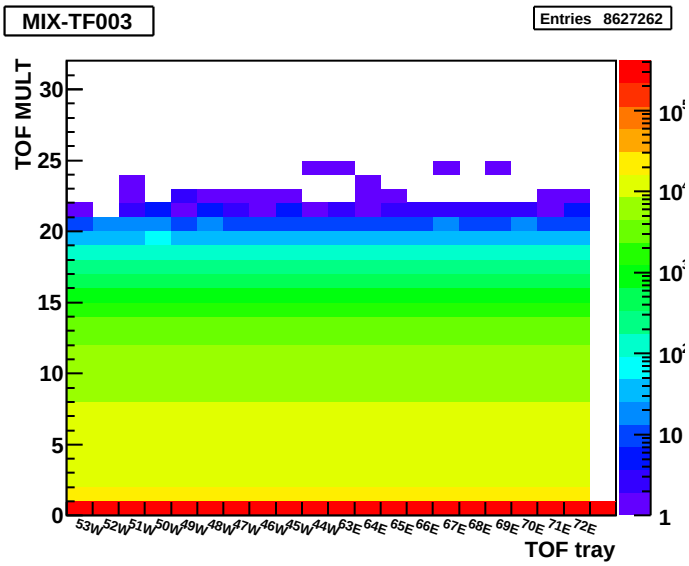

Endcap EMC L0 Input - Patch Sum
Entries 1.848699e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

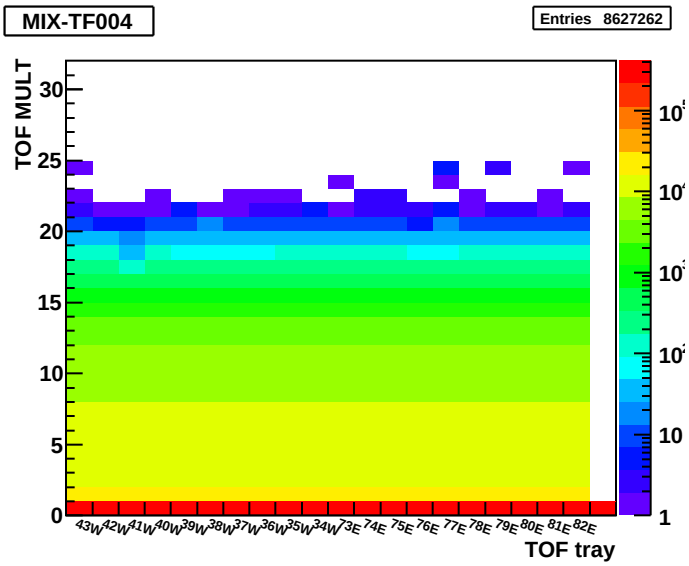

Barrel Jet Patches
Entries 3697398
JP ADC
JP ID

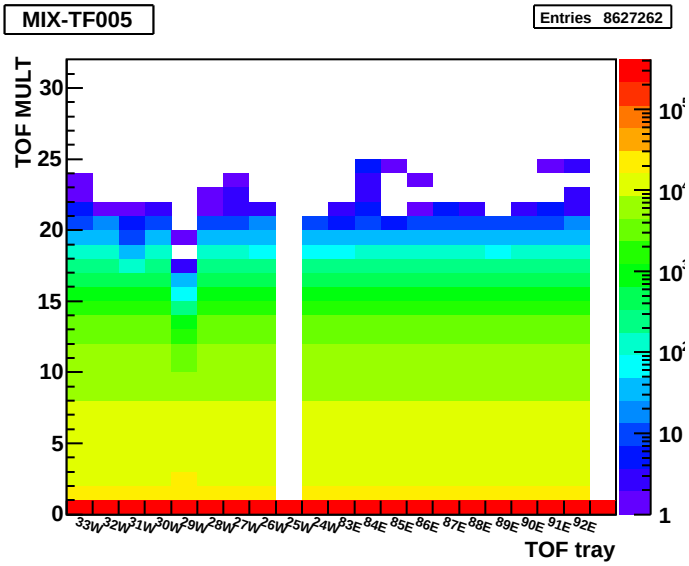

Hybrid Jet Patches
Entries 410822
JP ADC
JP ID

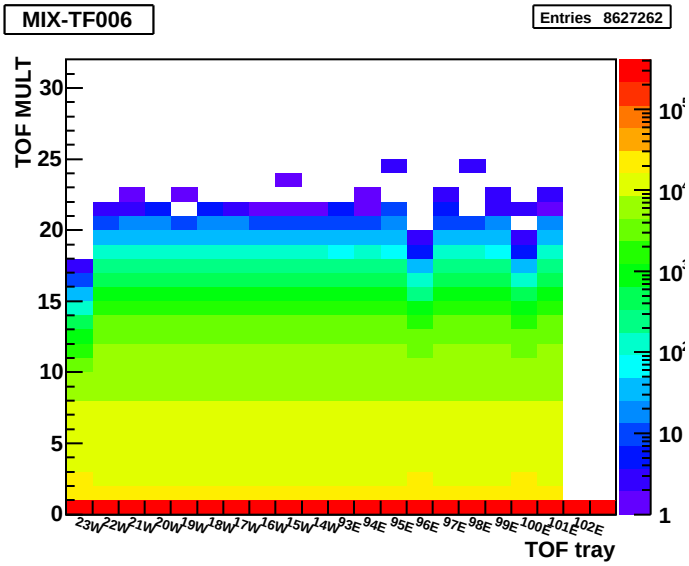

MIX-TF001
Entries 8627262
TOF MULT
TOF tray

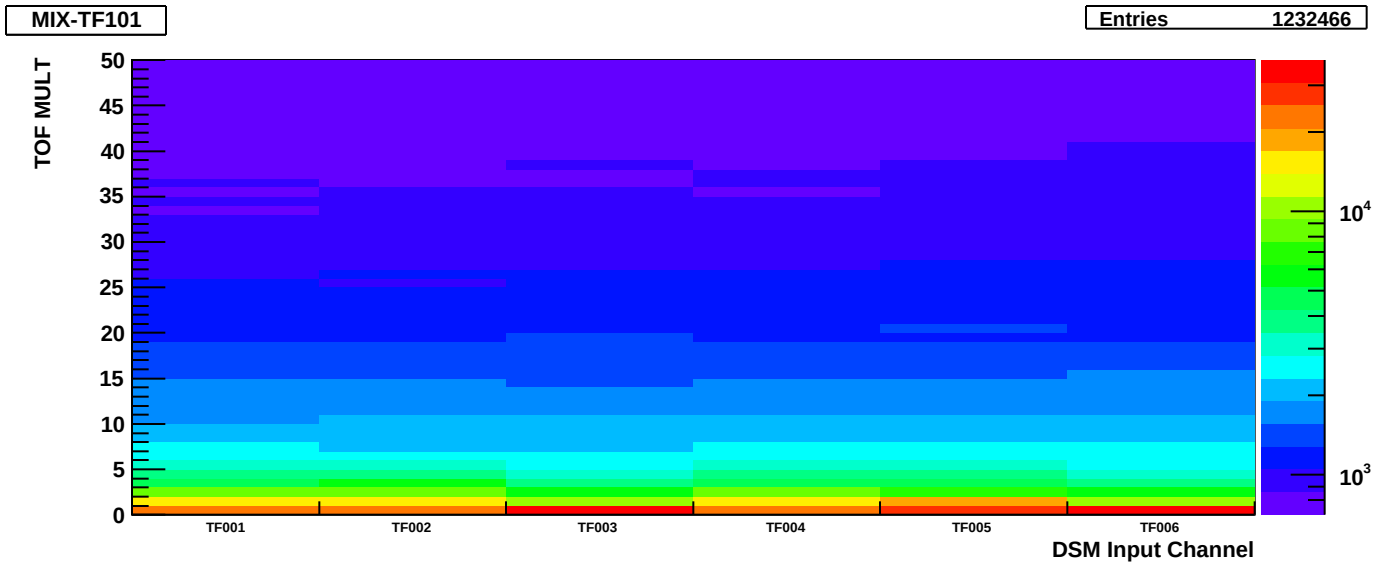

MIX-TF002
Entries 8627262
TOF MULT
TOF tray

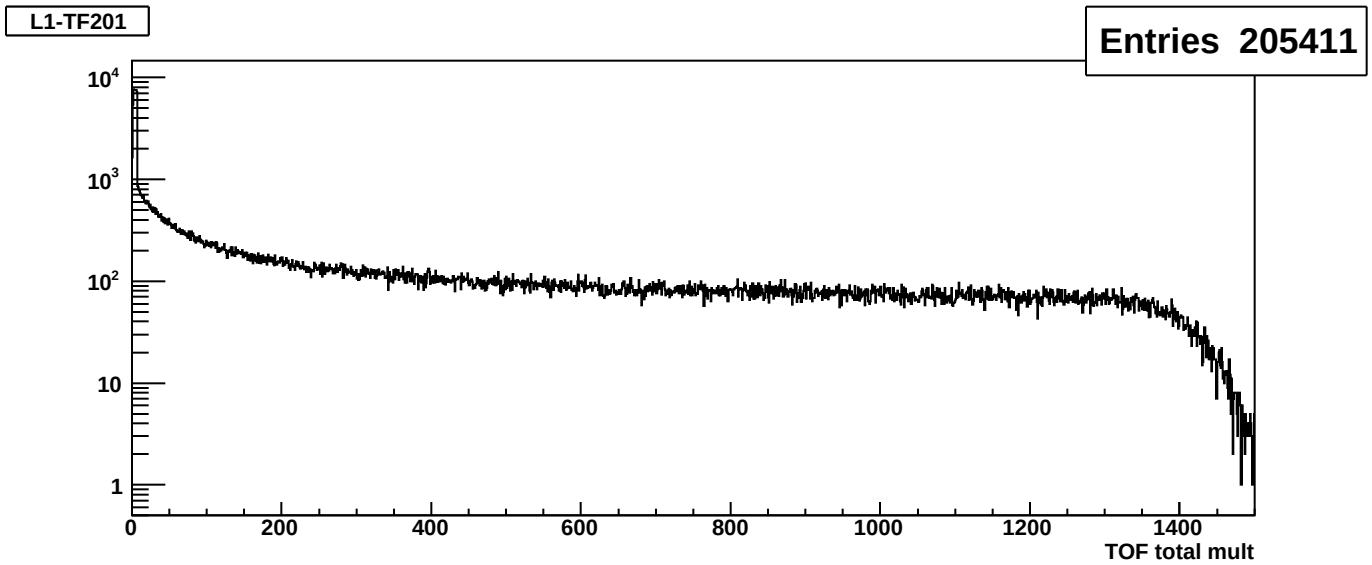

MIX-TF003
Entries 8627262
TOF MULT
TOF tray

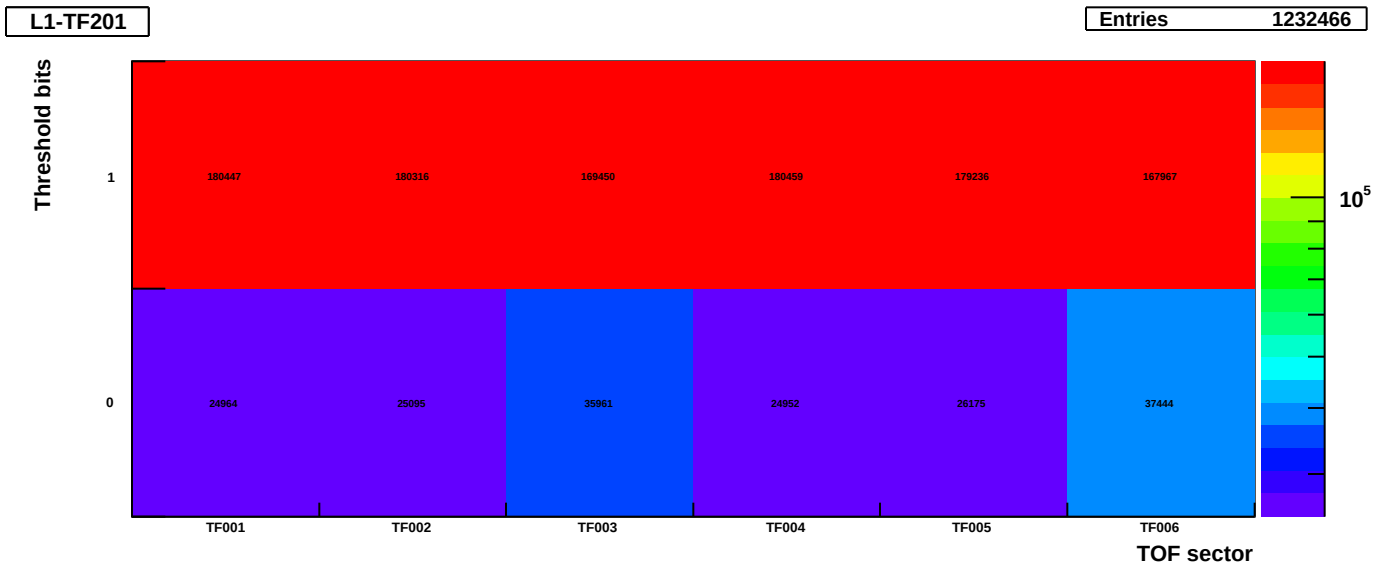

MIX-TF004
Entries 8627262
TOF MULT
TOF tray

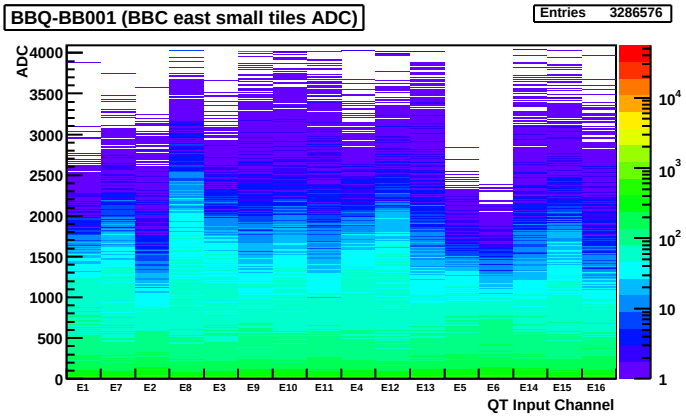

MIX-TF005
Entries 8627262
TOF MULT
TOF tray

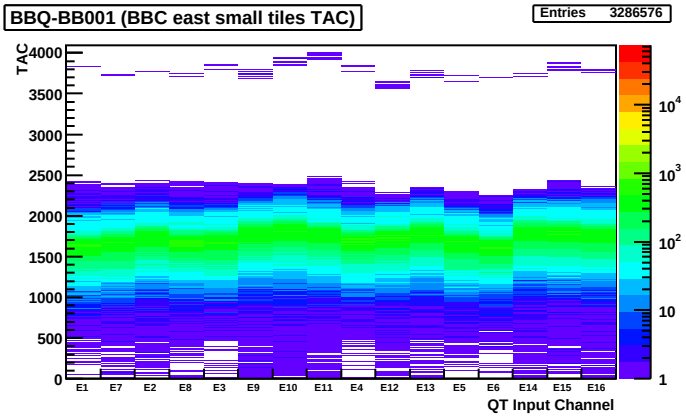

MIX-TF006
Entries 8627262
TOF MULT
TOF tray

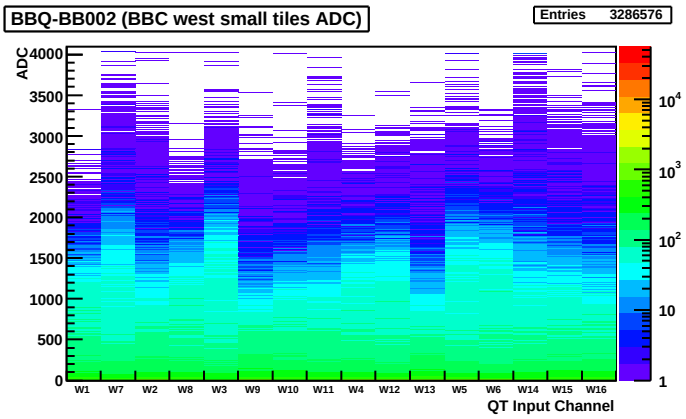

MIX-TF101
Entries 1232466
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

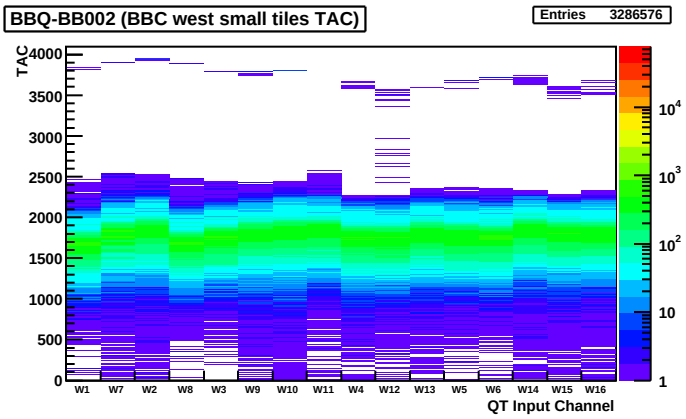

L1-TF201
Entries 205411
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

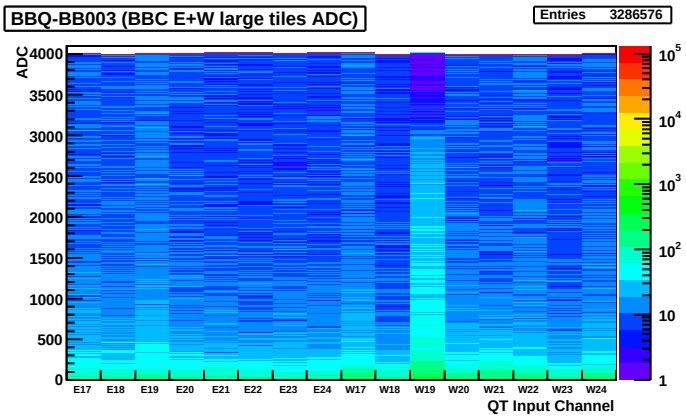

L1-TF201
Entries 1232466
Threshold bits
1
0
180447
180316
169450
180459
179236
167967
24964
25095
35961
24952
26175
37444
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

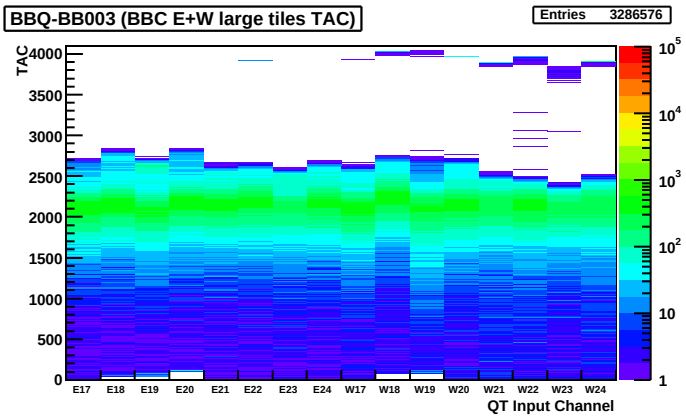

BBQ-BB001 (BBC east small tiles ADC)
Entries 3286576
ADC
QT Input Channel

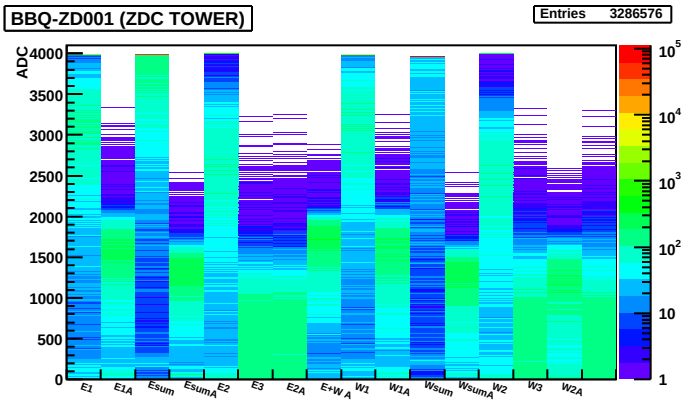

BBQ-BB001 (BBC east small tiles TAC)
Entries 3286576
TAC
QT Input Channel

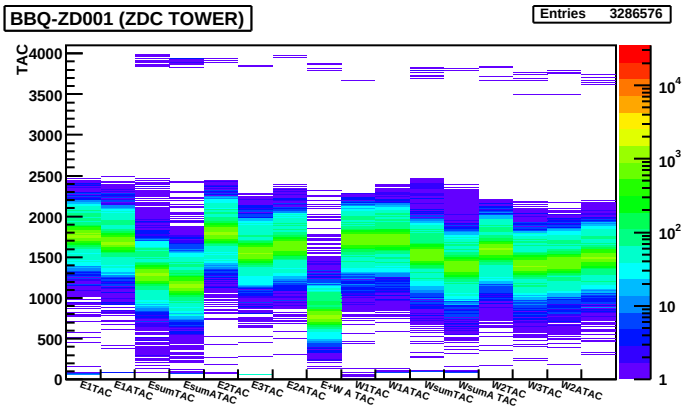

BBQ-BB002 (BBC west small tiles ADC)
Entries 3286576
ADC
QT Input Channel

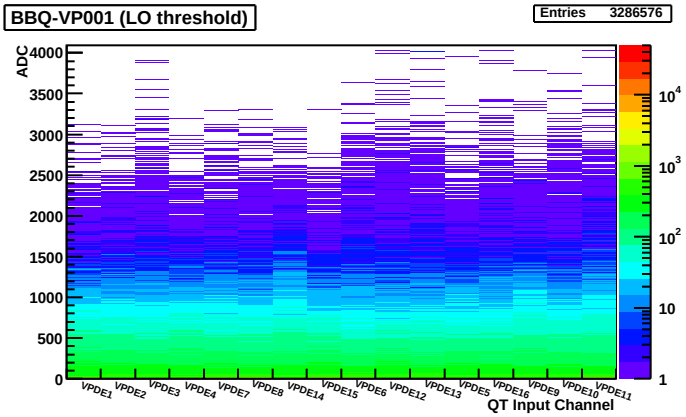

BBQ-BB002 (BBC west small tiles TAC)
Entries 3286576
TAC
QT Input Channel

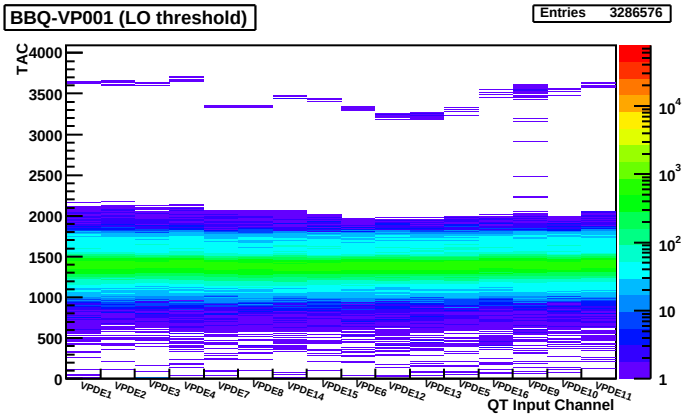

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3286576
ADC
QT Input Channel

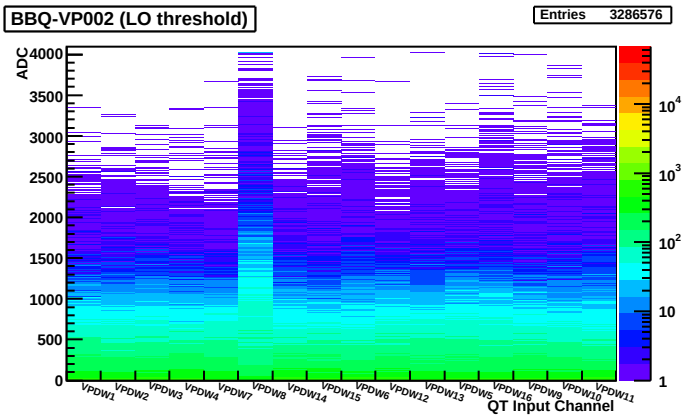

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3286576
TAC
QT Input Channel

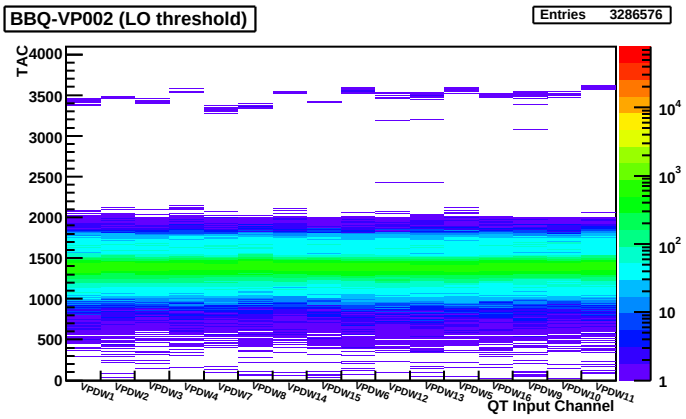

BBQ-ZD001 (ZDC TOWER)
Entries 3286576
ADC

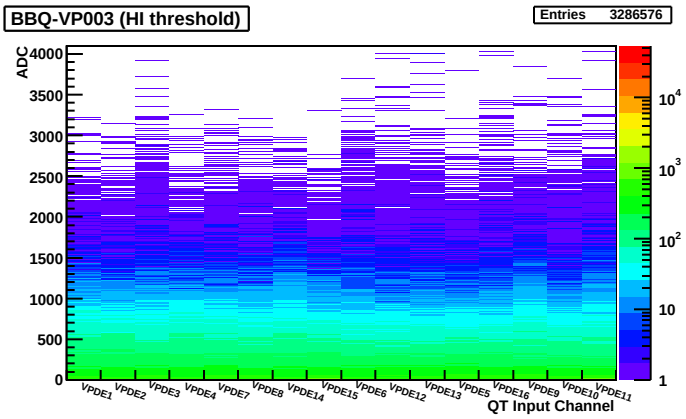

BBQ-ZD001 (ZDC TOWER)
Entries 3286576
TAC

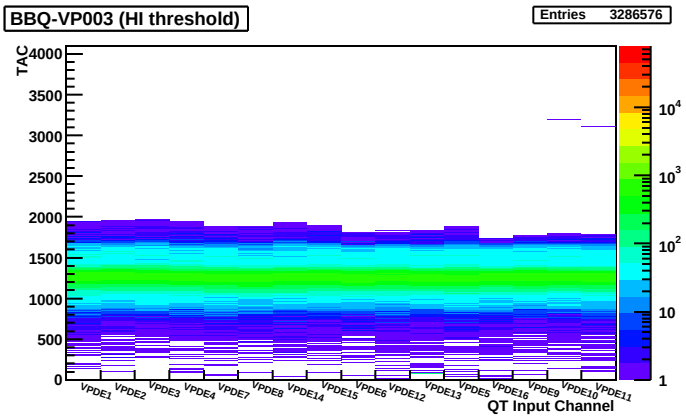

BBQ-VP001 (LO threshold)
Entries 3286576
ADC
QT Input Channel

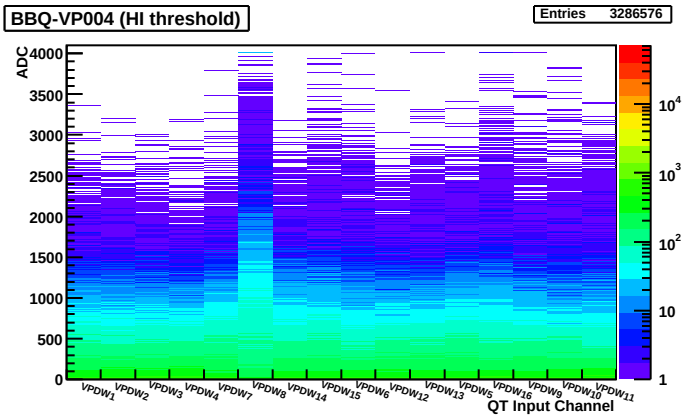

BBQ-VP001 (LO threshold)
Entries 3286576
TAC
QT Input Channel

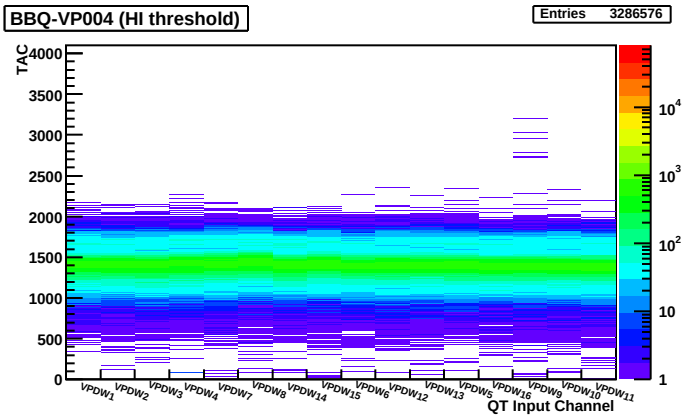

BBQ-VP002 (LO threshold)
Entries 3286576
ADC
QT Input Channel

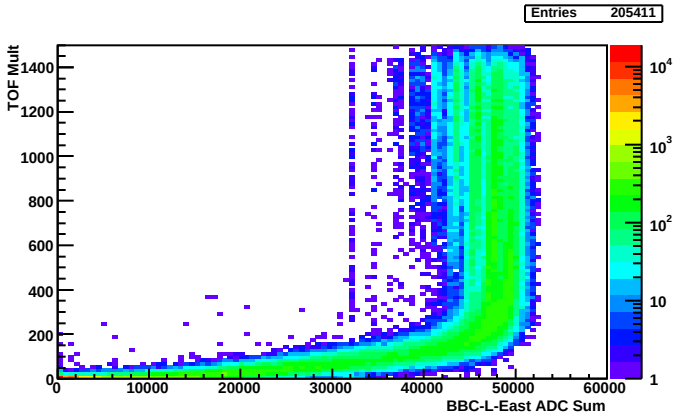

BBQ-VP002 (LO threshold)
Entries 3286576
TAC
QT Input Channel

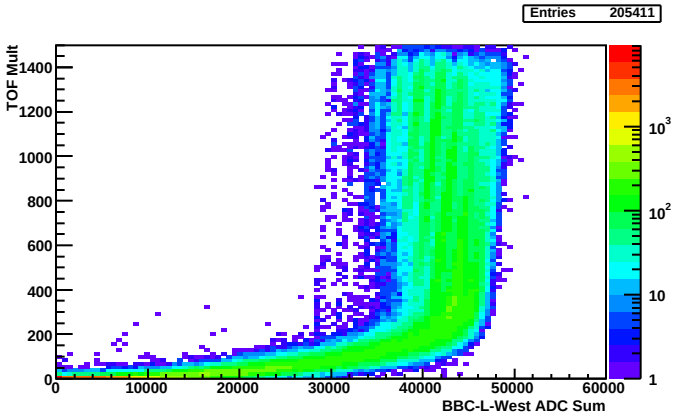

BBQ-VP003 (HI threshold)
Entries 3286576
ADC
QT Input Channel

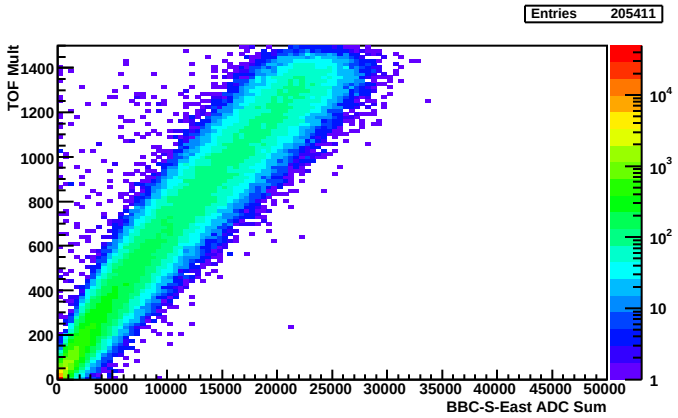

BBQ-VP003 (HI threshold)
Entries 3286576
TAC
QT Input Channel

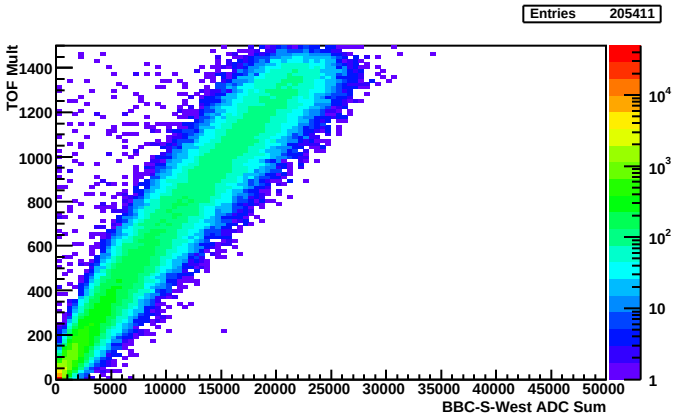

BBQ-VP004 (HI threshold)
Entries 3286576
ADC
QT Input Channel

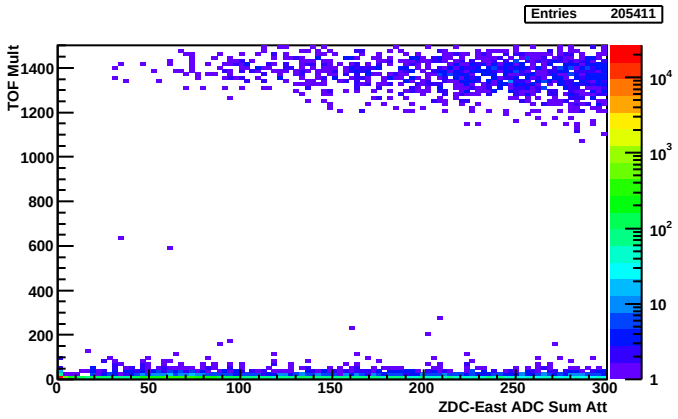

BBQ-VP004 (HI threshold)
Entries 3286576
TAC
QT Input Channel

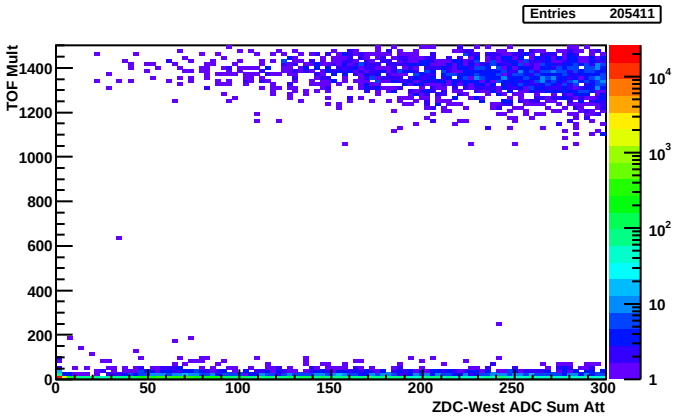

Entries 205411
TOF Mult
BBC-L-East ADC Sum

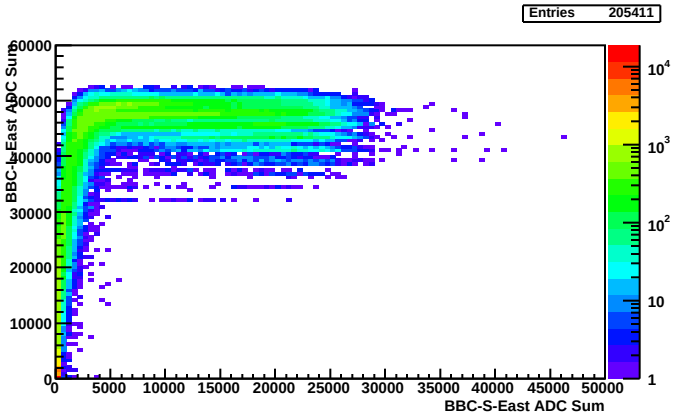

Entries 205411
TOF Mult
BBC-L-West ADC Sum

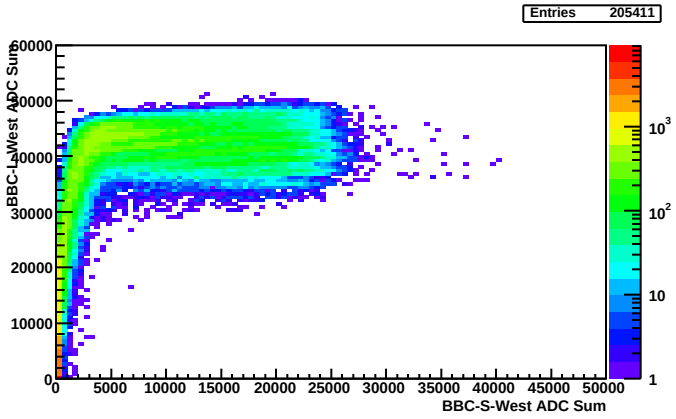

Entries 205411
TOF Mult
BBC-S-East ADC Sum

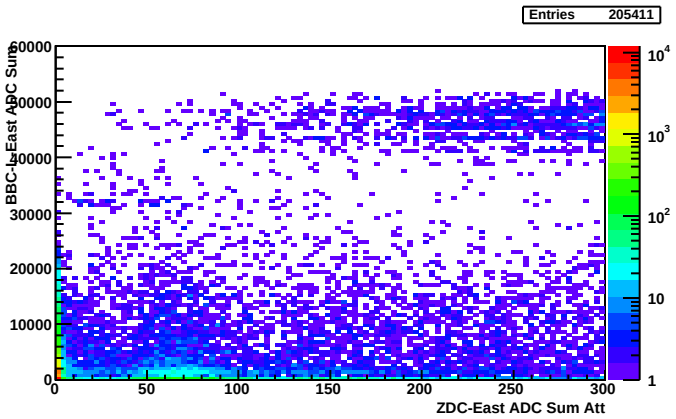

Entries 205411
TOF Mult
BBC-S-West ADC Sum


Entries 205411
TOF Mult
ZDC-East ADC Sum Att


Entries 205411
TOF Mult
ZDC-West ADC Sum Att


Entries 205411
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 205411
BBC-L-West ADC Sum
BBC-S-West ADC Sum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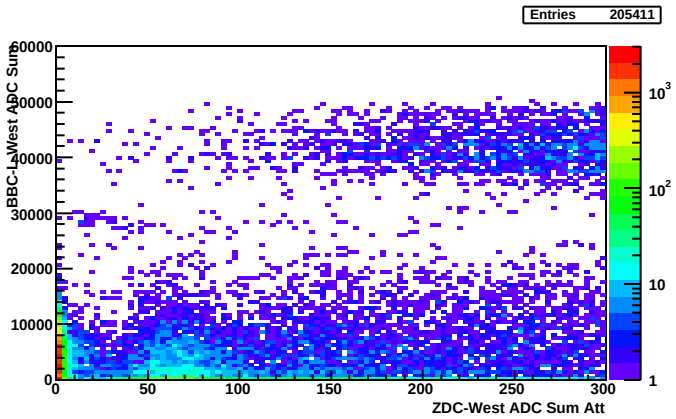
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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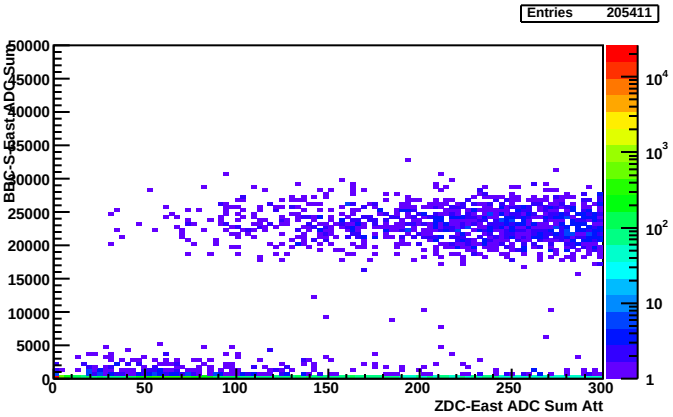
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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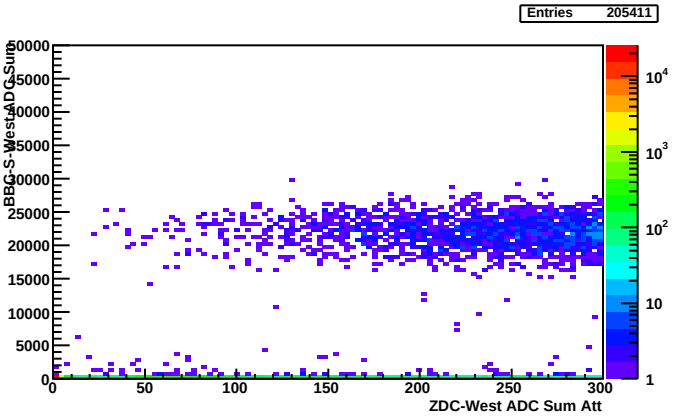
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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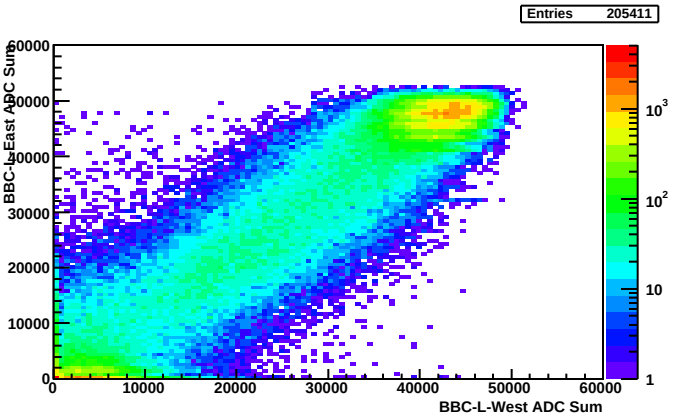
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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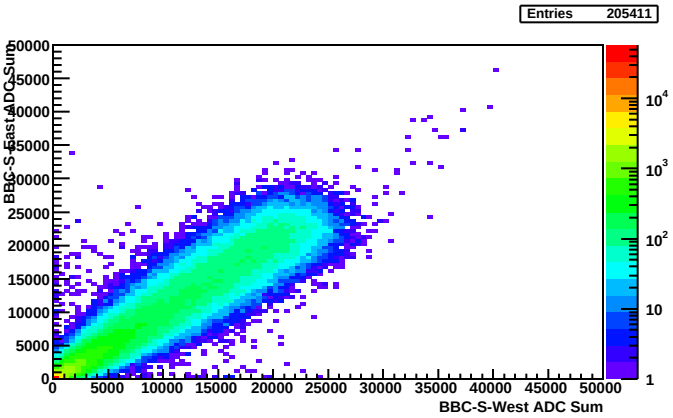
BBC-L-East ADC Sum
BBC-L-West ADC Sum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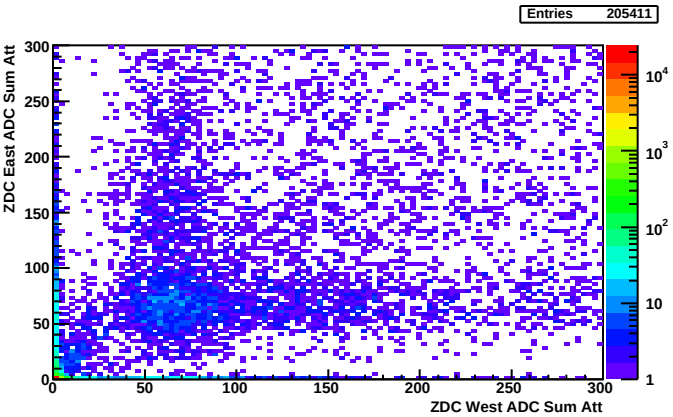
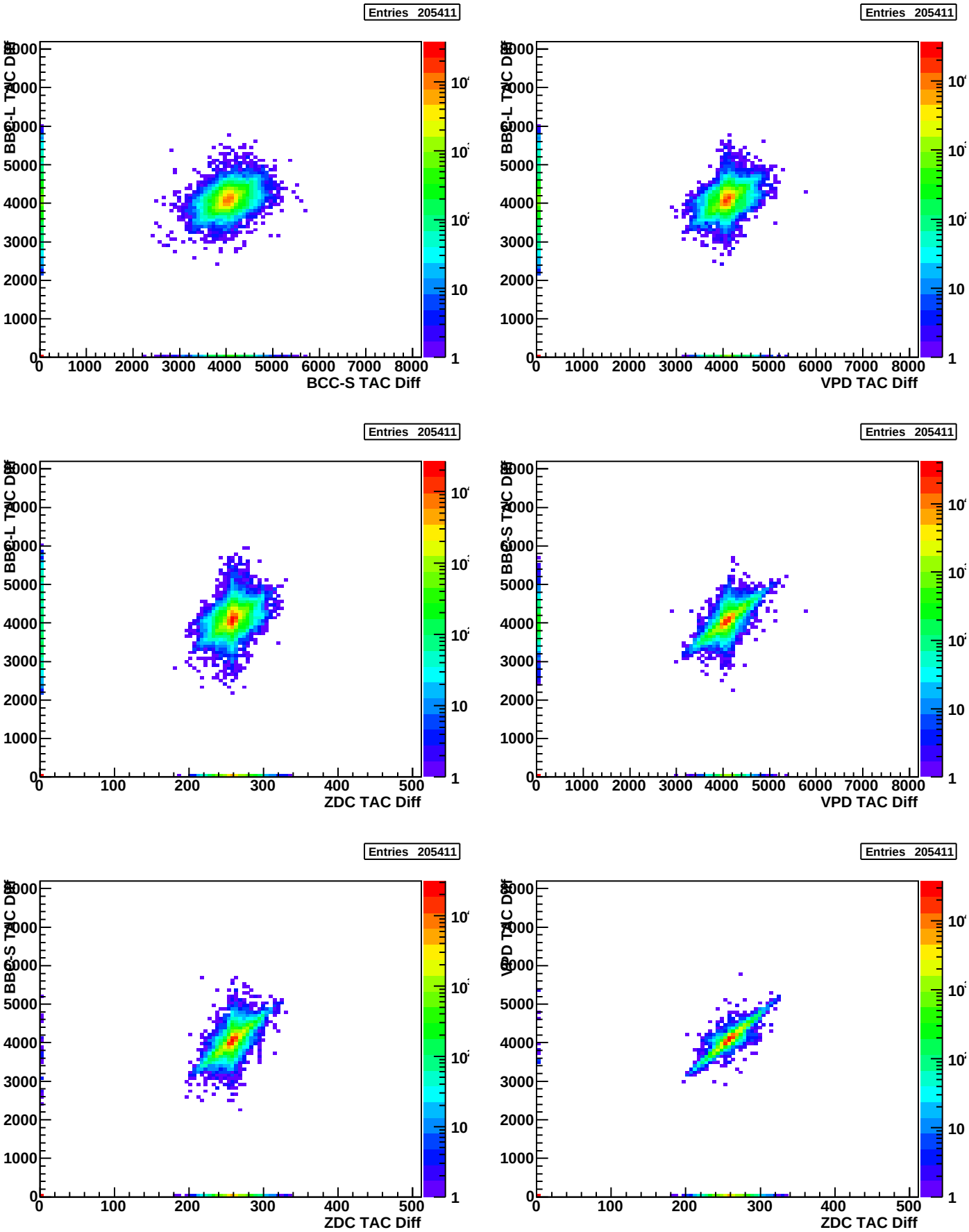
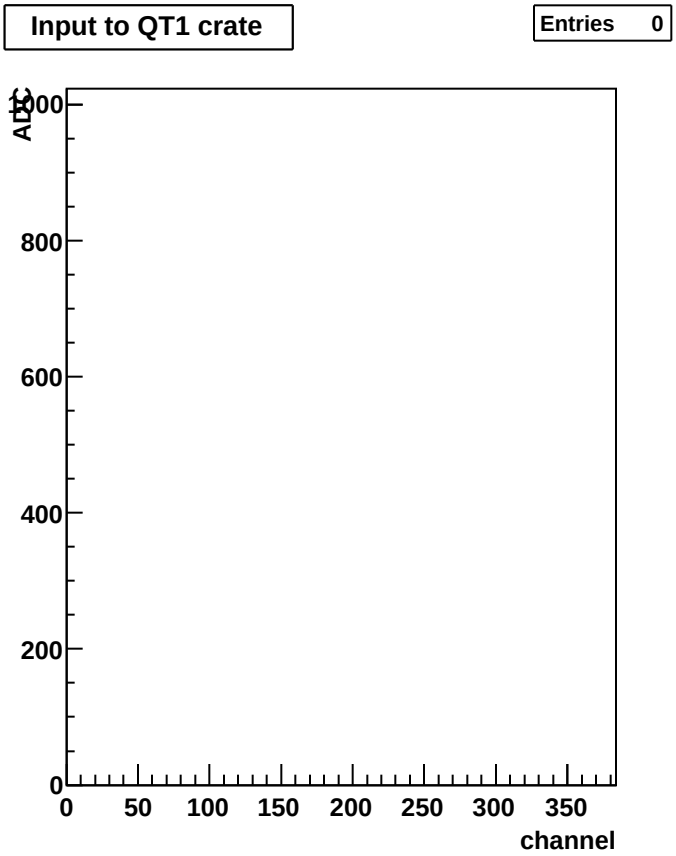
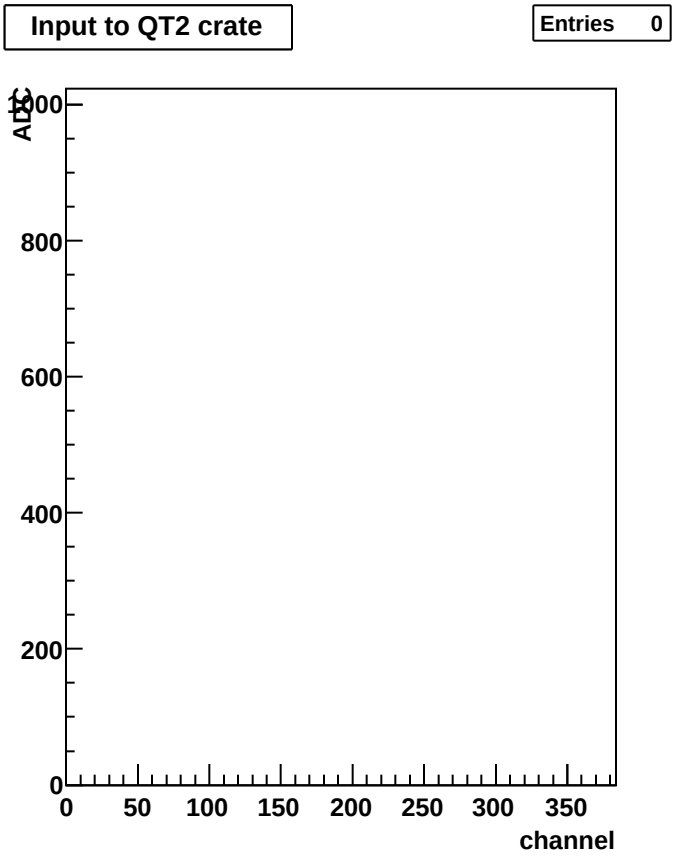
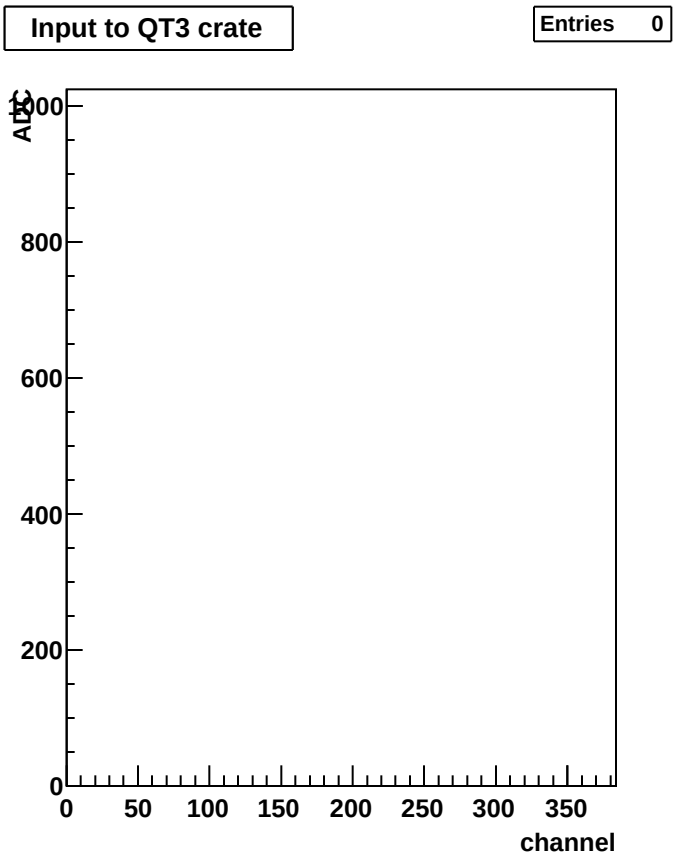
BBC-S-East ADC Sum
BBC-S-West ADC Sum

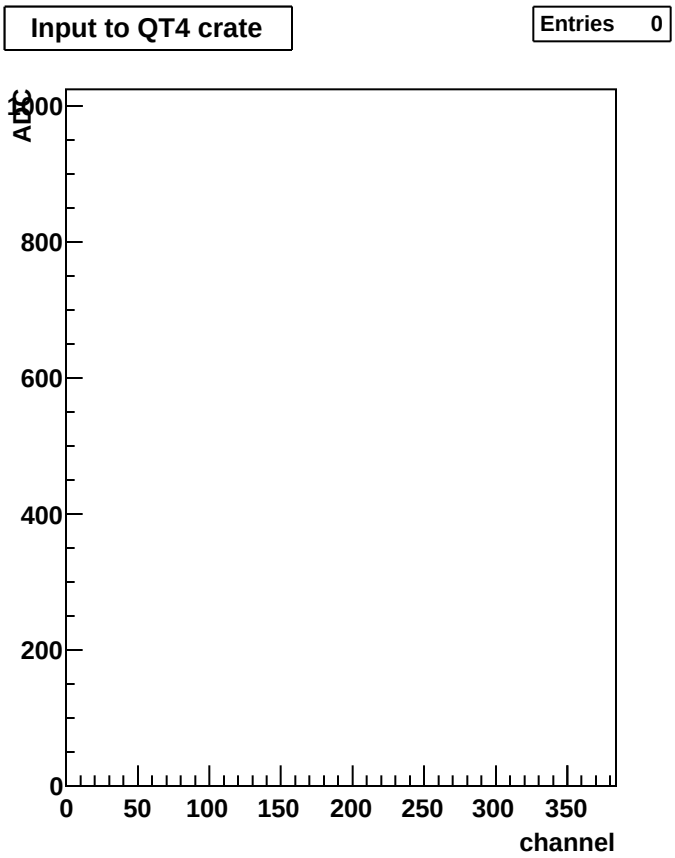

Entries 205411
ZDC East ADC Sum Att
ZDC West ADC Sum Att

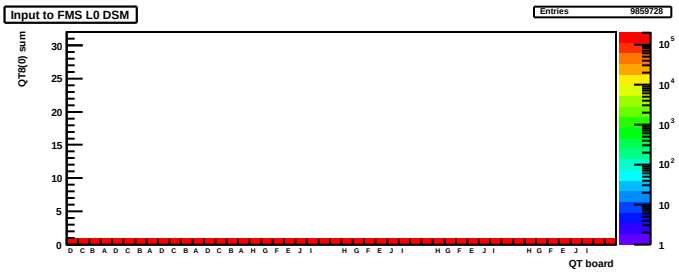

Entries 205411
BBC-L TAC Diff
BCC-S TAC Diff
Entries 205411
BBC-L TAC Diff
VPD TAC Diff
Entries 205411
BBC-L TAC Diff
ZDC TAC Diff
Entries 205411
BBC-S TAC Diff
VPD TAC Diff
Entries 205411
BBC-S TAC Diff
ZDC TAC Diff
Entries 205411
VPD TAC Diff
ZDC TAC Diff

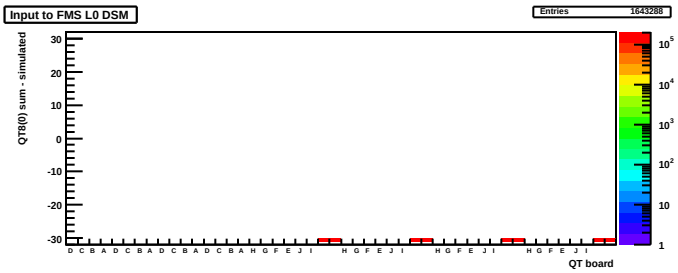

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

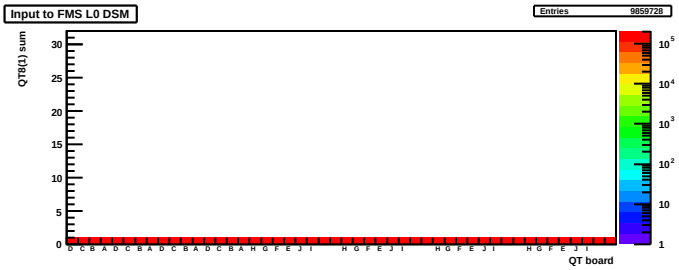

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

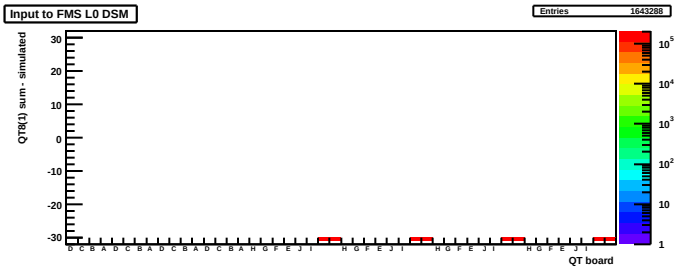

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

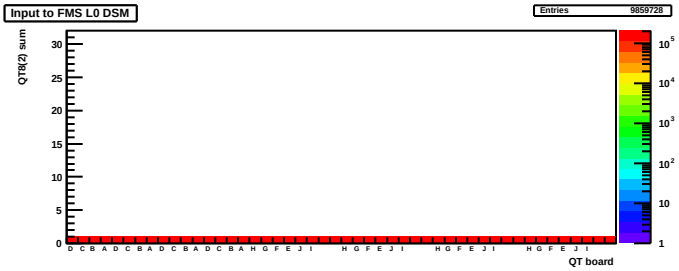

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

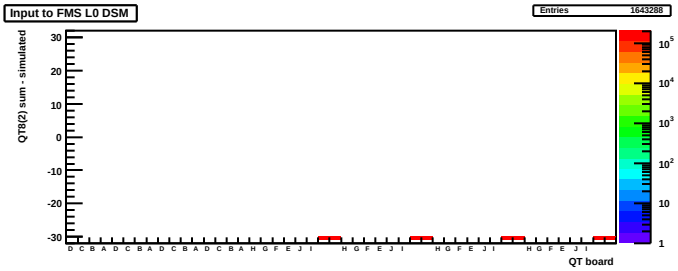

Input to FMS L0 DSM
Entries 9859728
QT8(0) sum
QT board

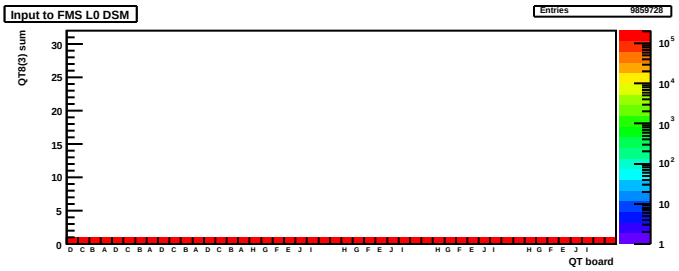

Input to FMS L0 DSM
Entries 1643288
QT8(0) sum - simulated
QT board

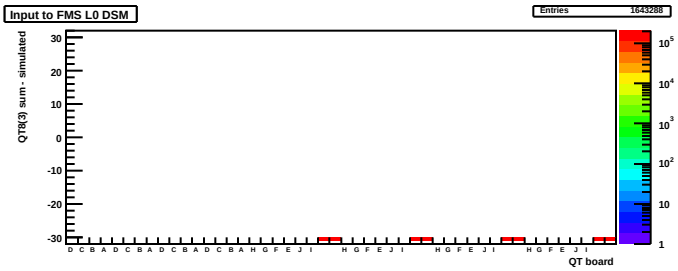

Input to FMS L0 DSM
Entries 9859728
QT8(1) sum
QT board

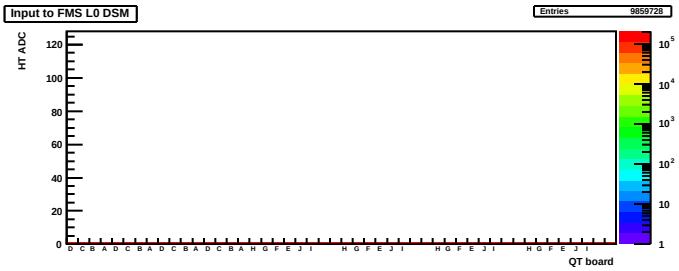

Input to FMS L0 DSM
Entries 1643288
QT8(1) sum - simulated
QT board

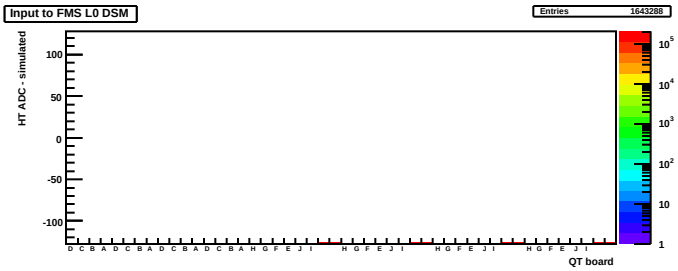

Input to FMS L0 DSM
Entries 9859728
QT8(2) sum
QT board

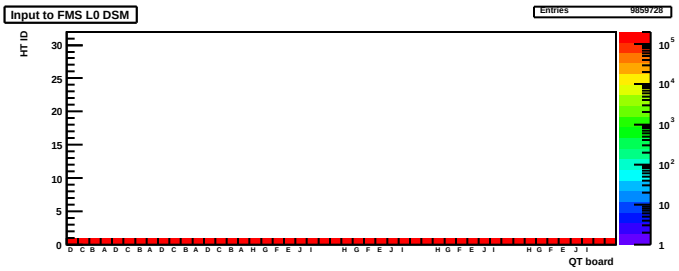

Input to FMS L0 DSM
Entries 1643288
QT8(2) sum - simulated
QT board

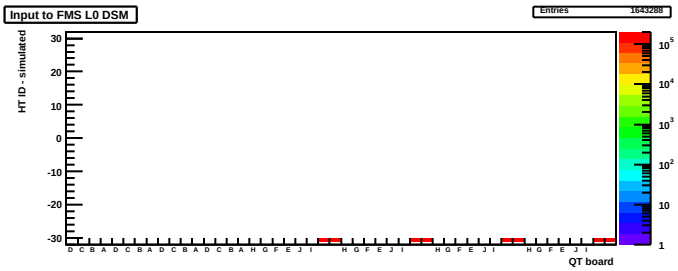

Input to FMS L0 DSM
Entries 9859728
QT8(3) sum
QT board

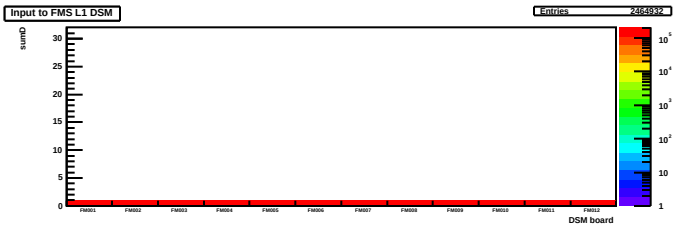

Input to FMS L0 DSM
Entries 1643288
QT8(3) sum - simulated
QT board

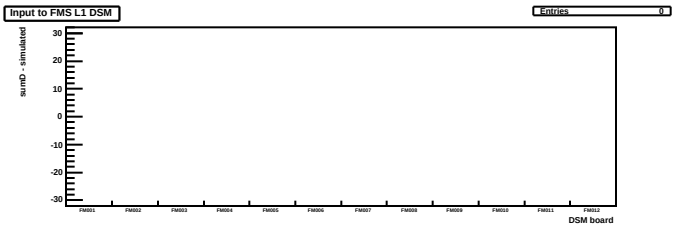

Input to FMS L0 DSM
Entries 9859728
HT ADC
QT board

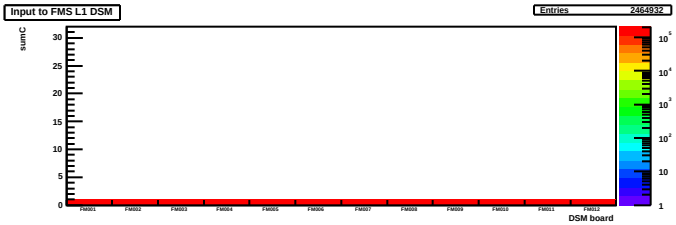

Input to FMS L0 DSM
Entries 1643288
HT ADC - simulated
QT board

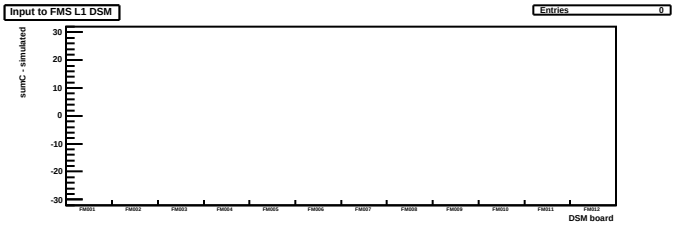

Input to FMS L0 DSM
Entries 9859728
HT ID
QT board

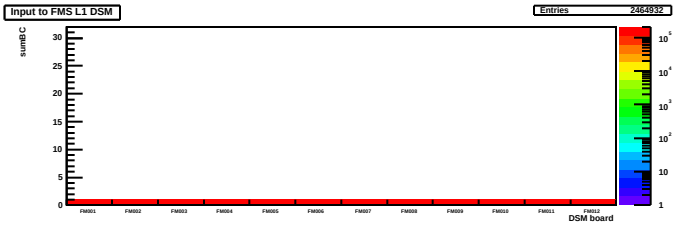

Input to FMS L0 DSM
Entries 1643288
HT ID - simulated
QT board

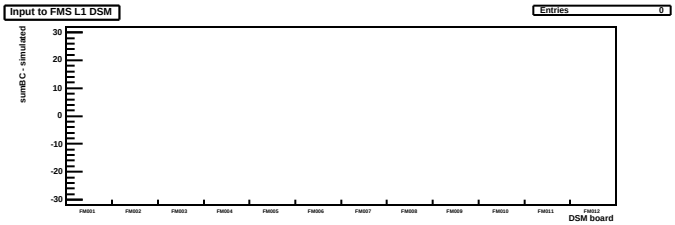

Input to FMS L1 DSM
Entries 2464932
sumD
DSM board

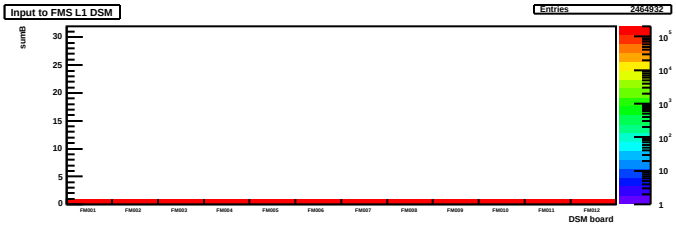

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

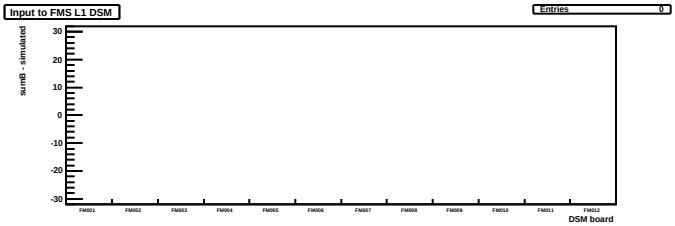

Input to FMS L1 DSM
Entries 2464932
sumC
DSM board

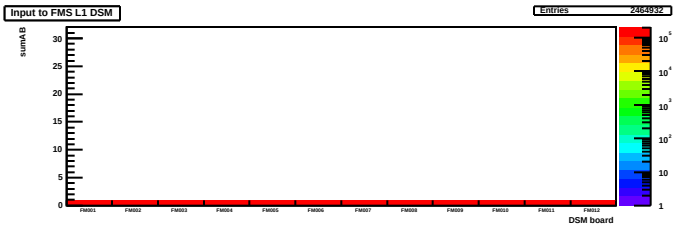

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

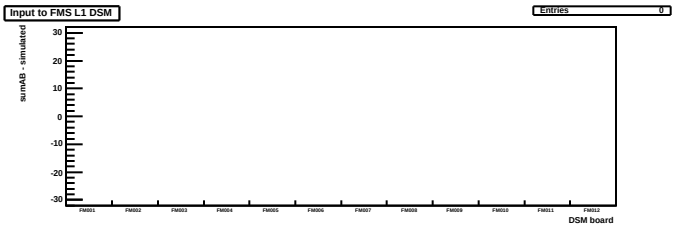

Input to FMS L1 DSM
Entries 2464932
sumBC
DSM board

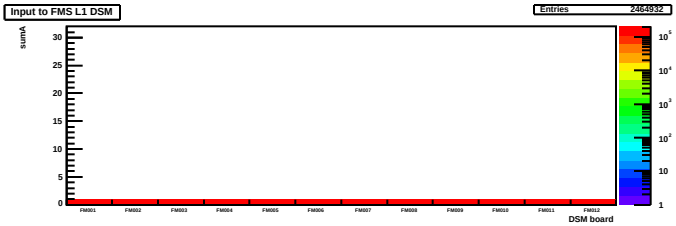

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

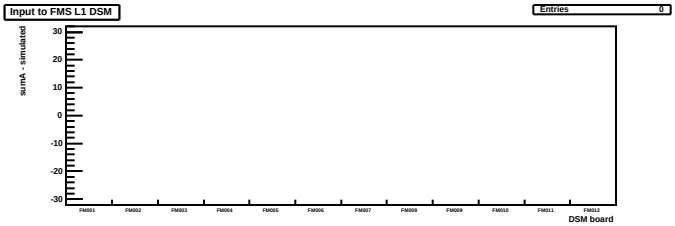

Input to FMS L1 DSM
Entries 2464932
sumB
DSM board

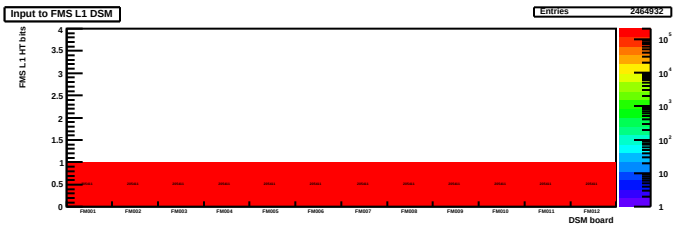

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

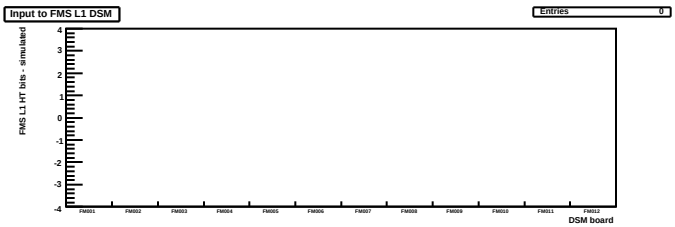

Input to FMS L1 DSM
Entries 2464932
sumAB
DSM board

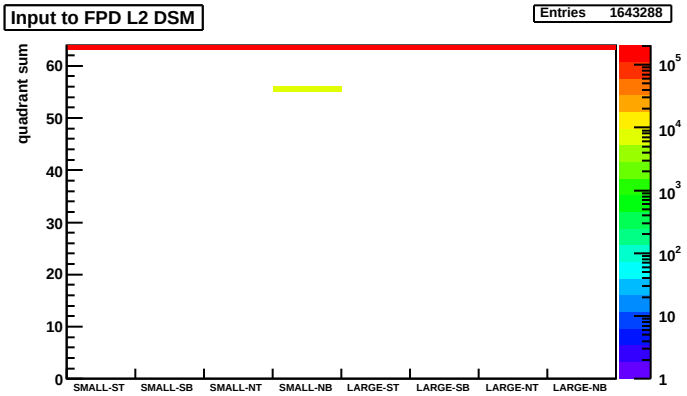

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

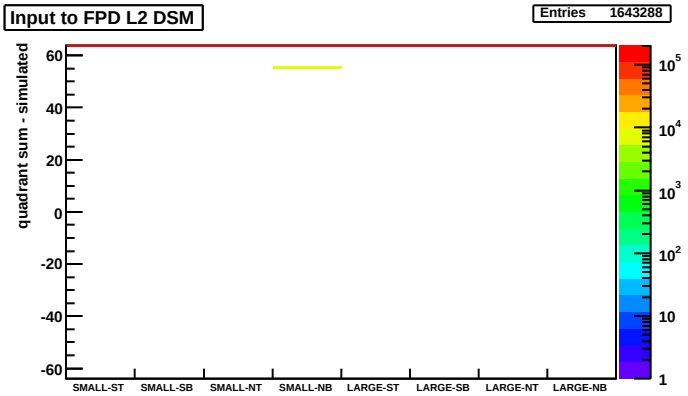

Input to FMS L1 DSM
Entries 2464932
sumA
DSM board

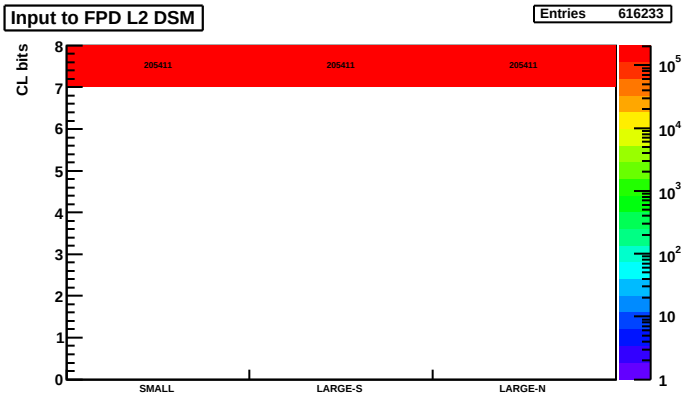

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

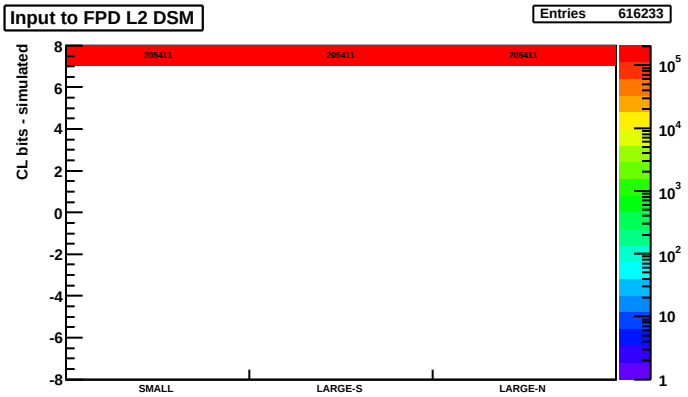

Input to FMS L1 DSM
Entries 2464932
FMS L1 HT bits
DSM board

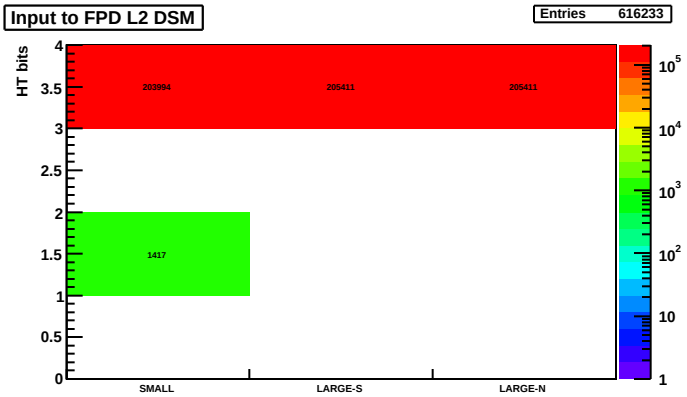

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

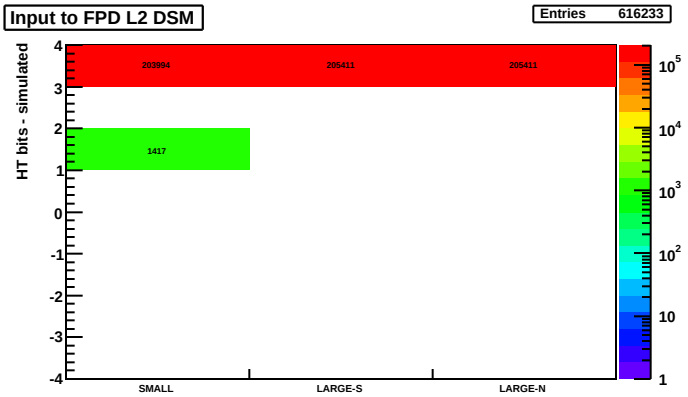

Input to FPD L2 DSM
Entries 1643288
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

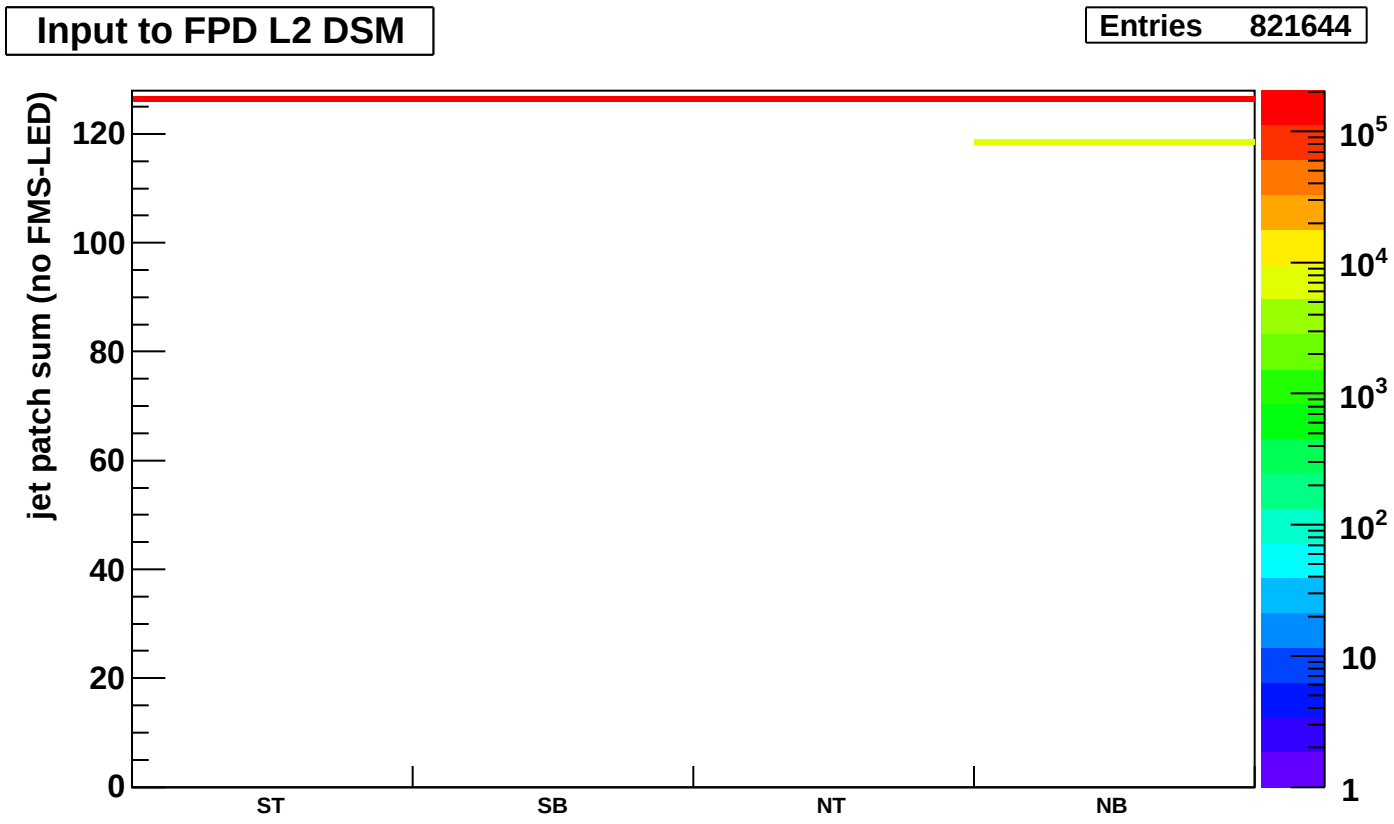

Input to FPD L2 DSM
Entries 1643288
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

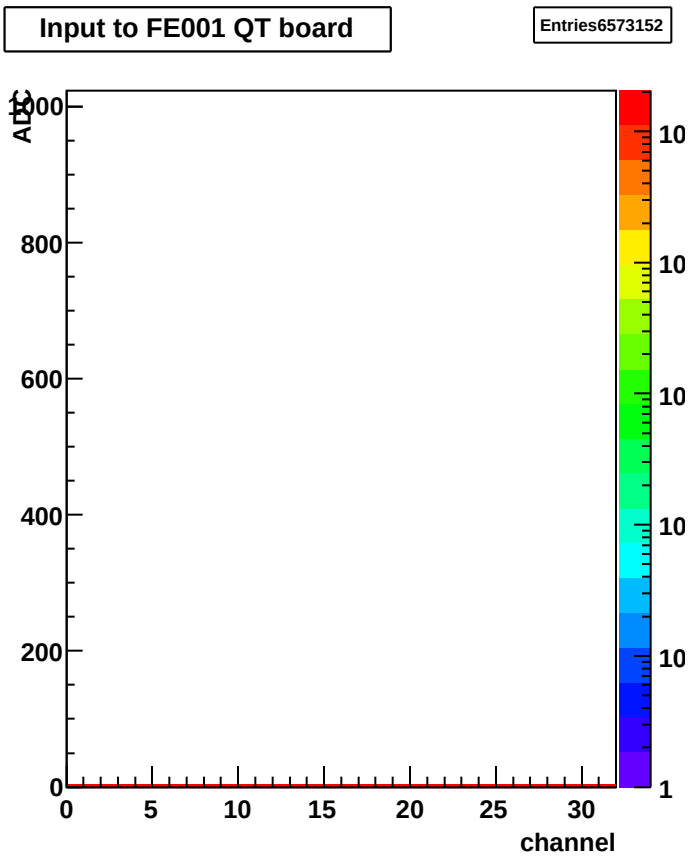

Input to FPD L2 DSM
Entries 616233
CL bits
205411
205411
205411
SMALL
LARGE-S
LARGE-N

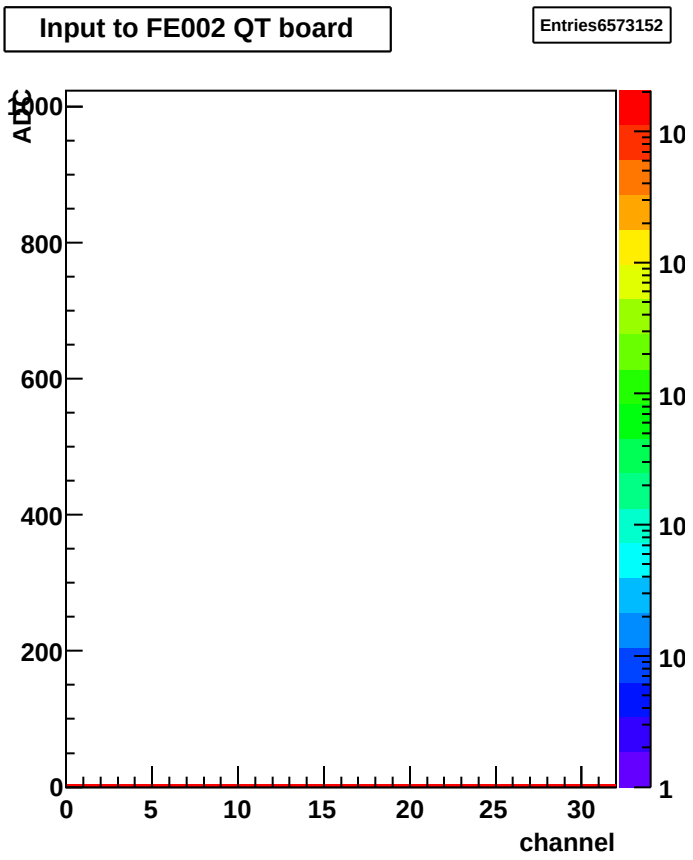

Input to FPD L2 DSM
Entries 616233
CL bits - simulated
205411
205411
205411
SMALL
LARGE-S
LARGE-N

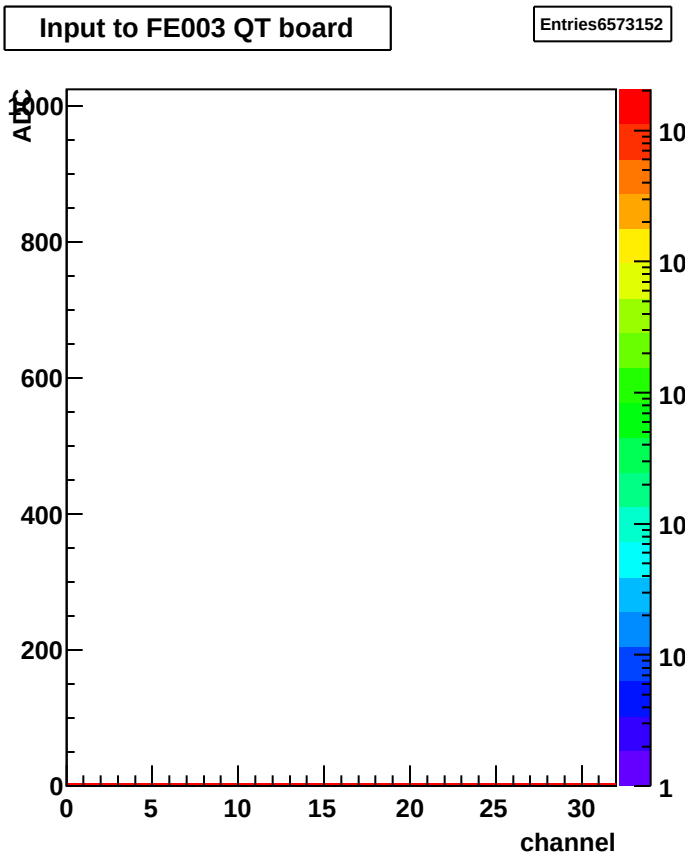

Input to FPD L2 DSM
Entries 616233
HT bits
203994
205411
205411
1417
SMALL
LARGE-S
LARGE-N

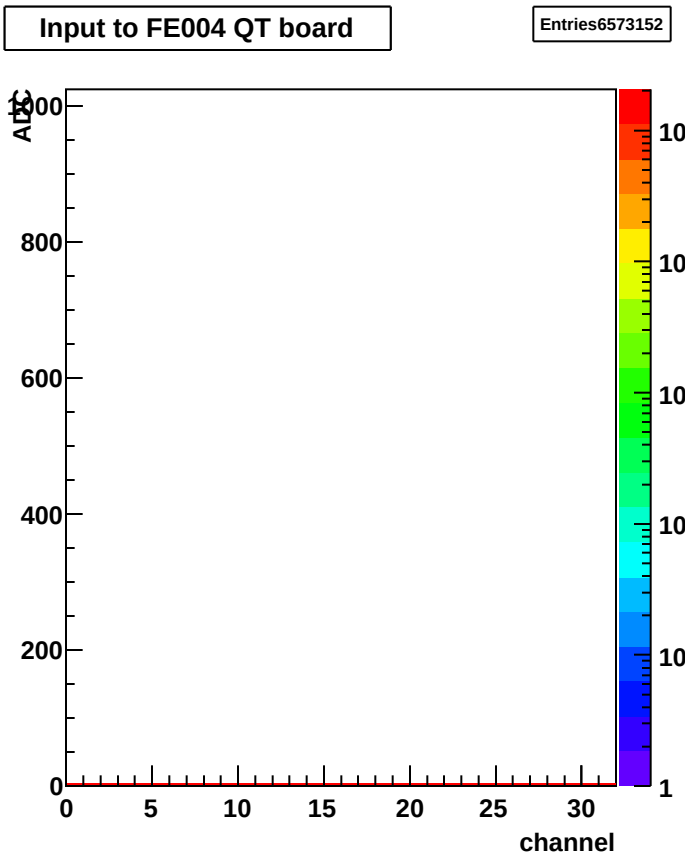

Input to FPD L2 DSM
Entries 616233
HT bits - simulated
203994
205411
205411
1417
SMALL
LARGE-S
LARGE-N

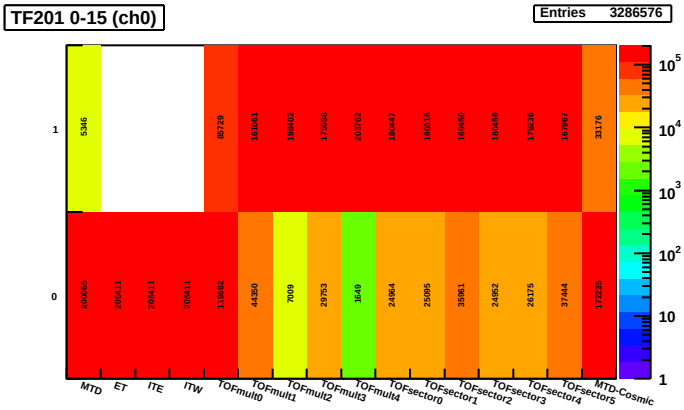

Input to FPD L2 DSM
Entries 821644
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

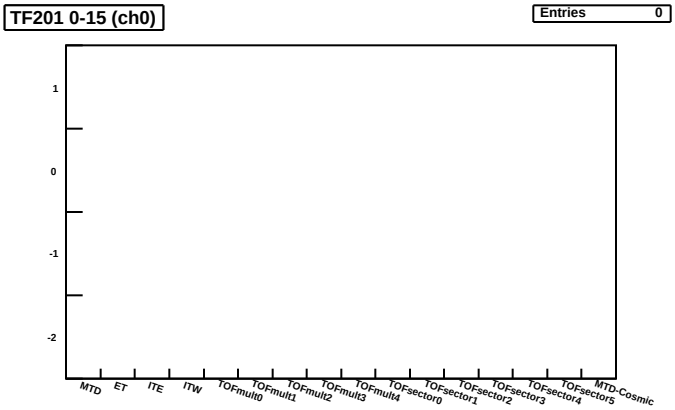

Input to FE001 QT board
Entries6573152
ADC
channel

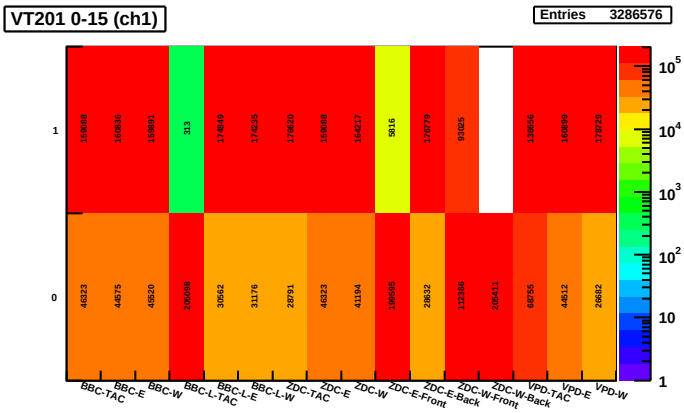

Input to FE002 QT board
Entries6573152
ADC
channel

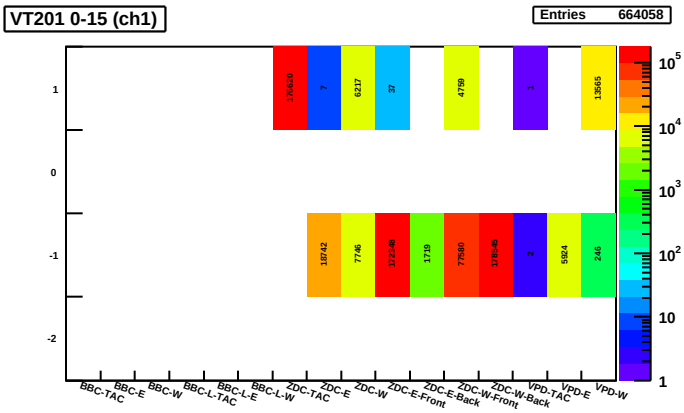

Input to FE003 QT board
Entries6573152
ADC
channel

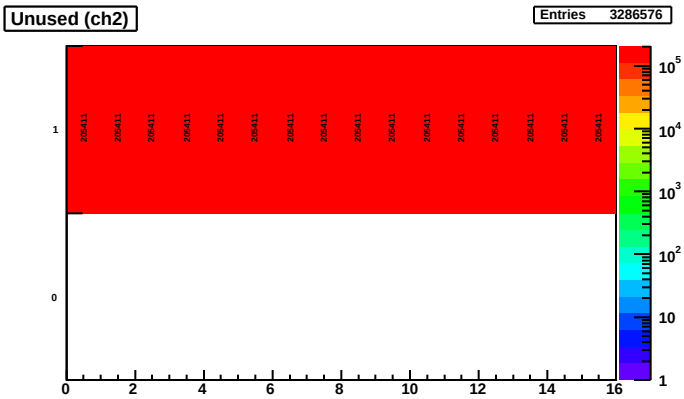

Input to FE004 QT board
Entries6573152
ADC
channel

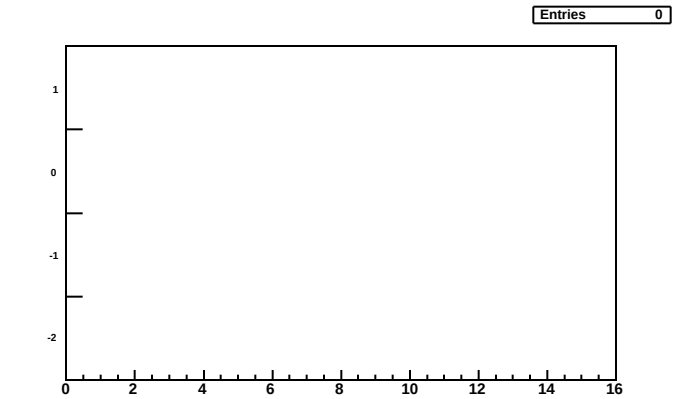

TF201 0-15 (ch0)
Entries 3286576
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

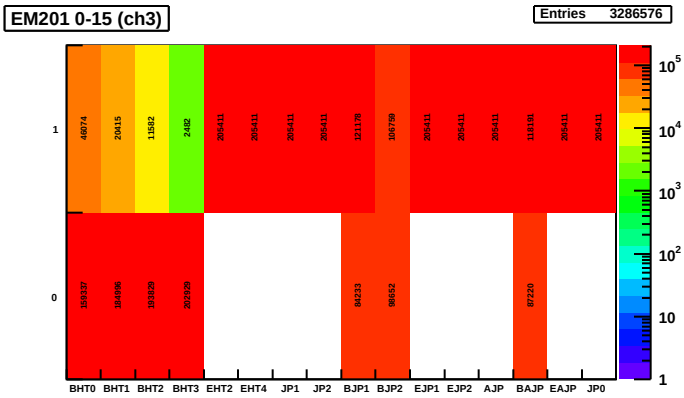

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

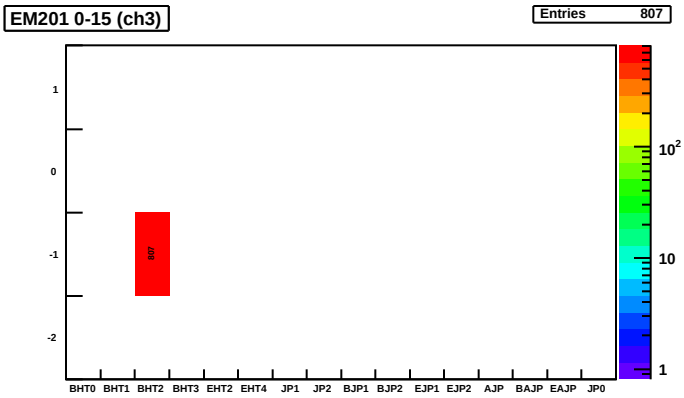

VT201 0-15 (ch1)
Entries 3286576
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 664058
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

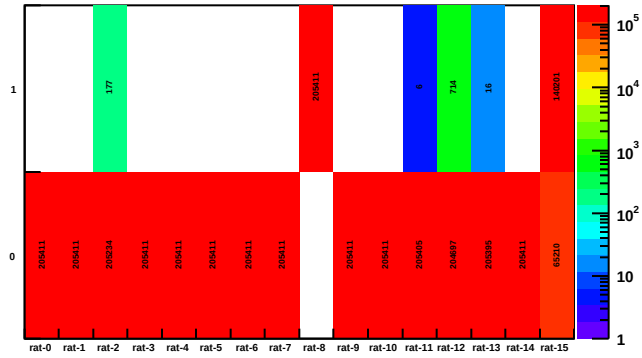

Unused (ch2)
Entries 3286576

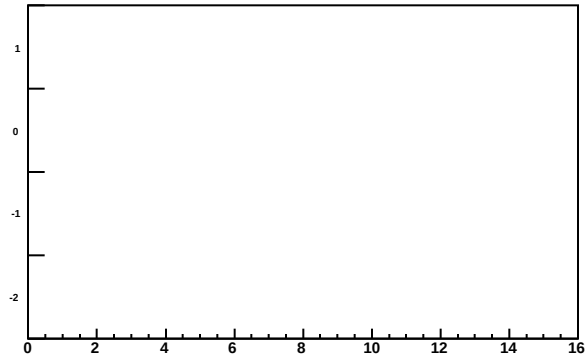

Entries 0


EM201 0-15 (ch3)
Entries 3286576
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

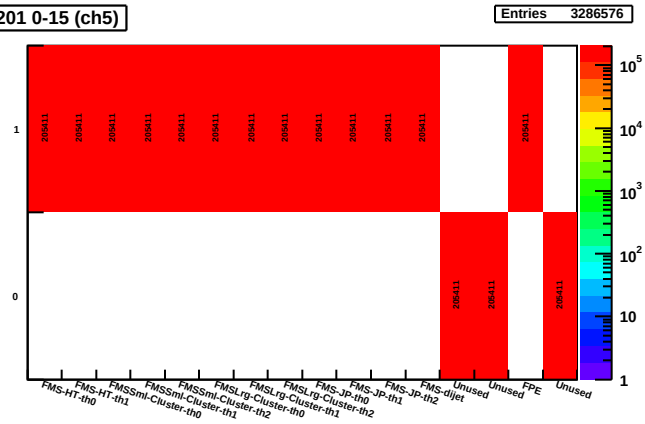

EM201 0-15 (ch3)
Entries 807
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

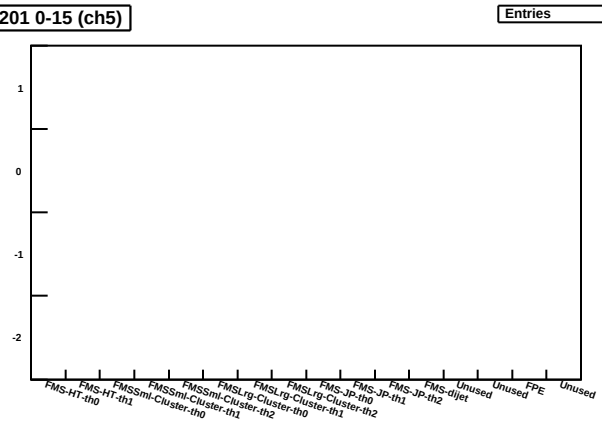




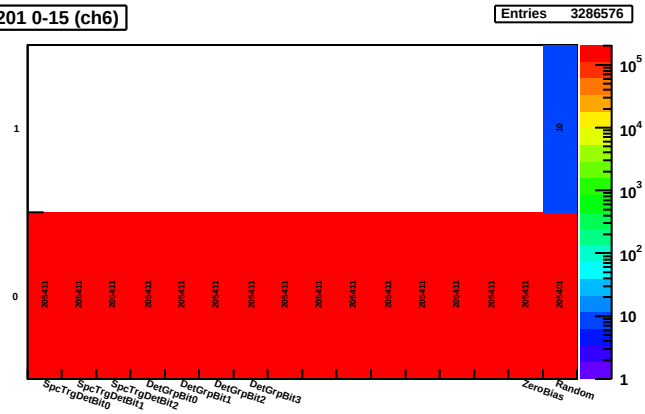
FP201 0-15 (ch5)

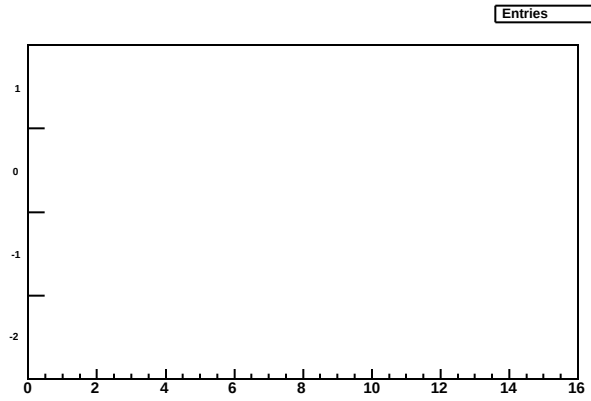
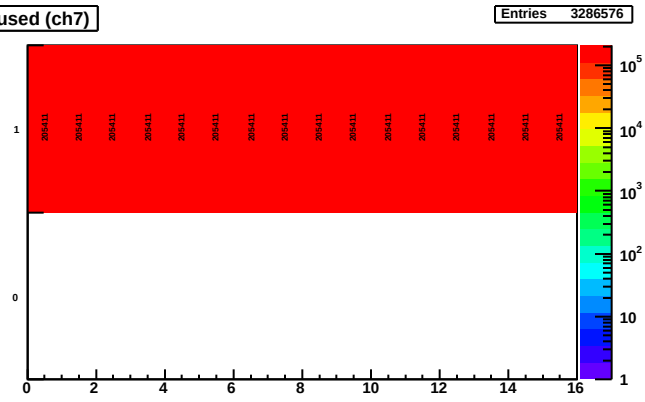
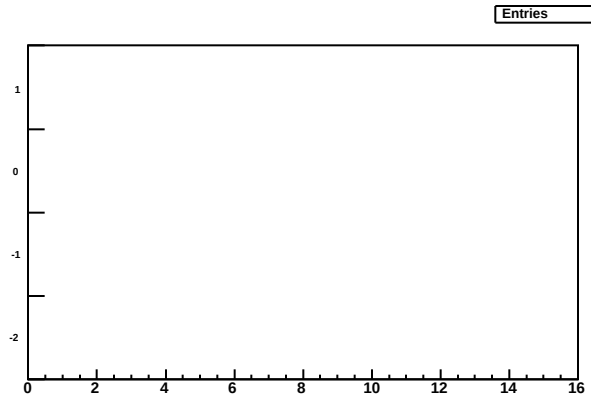


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)