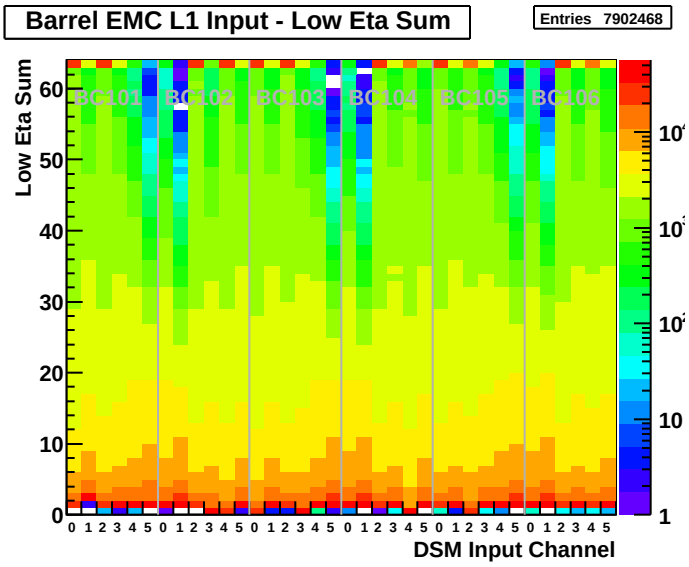
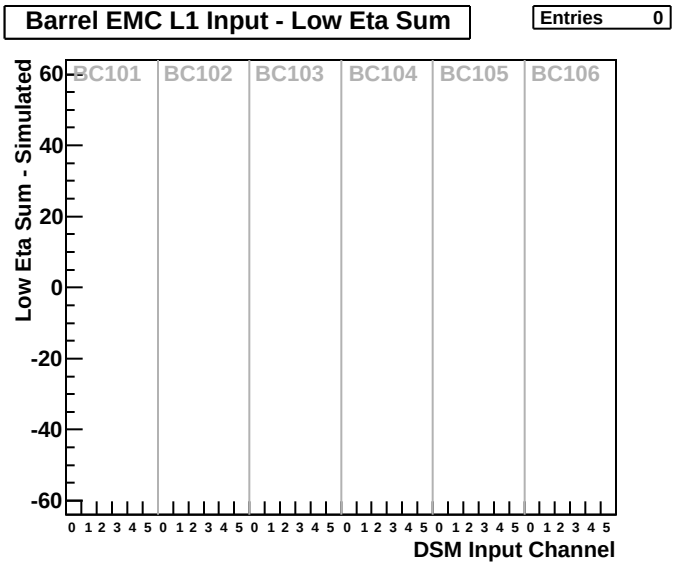
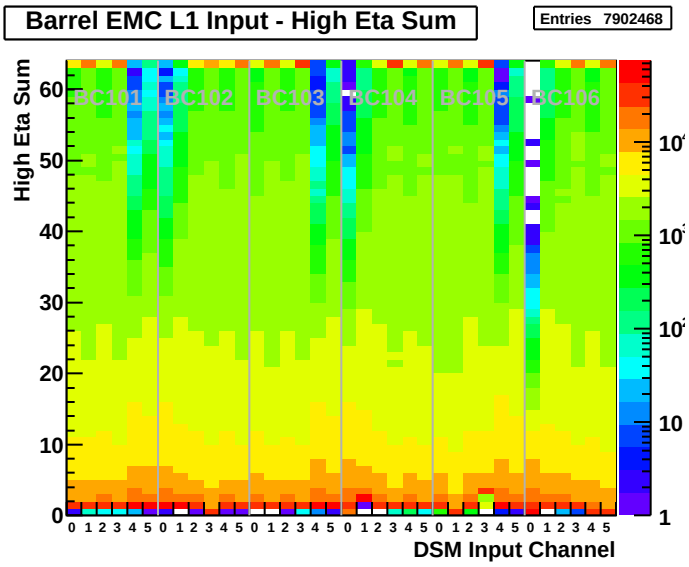
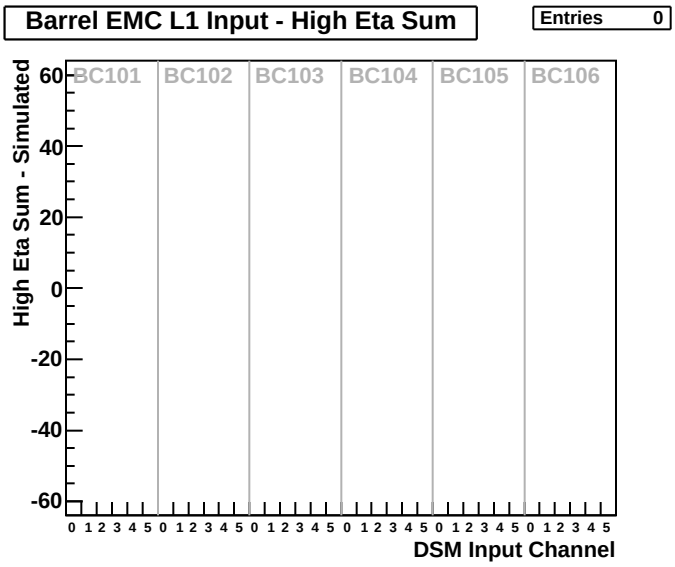
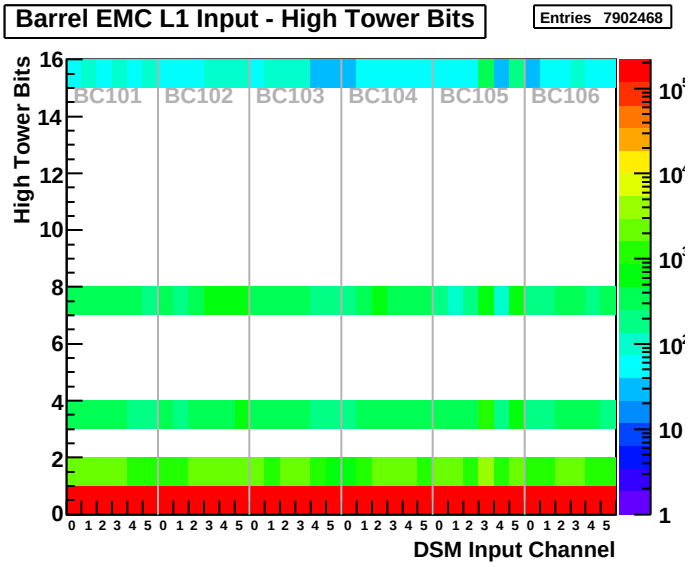
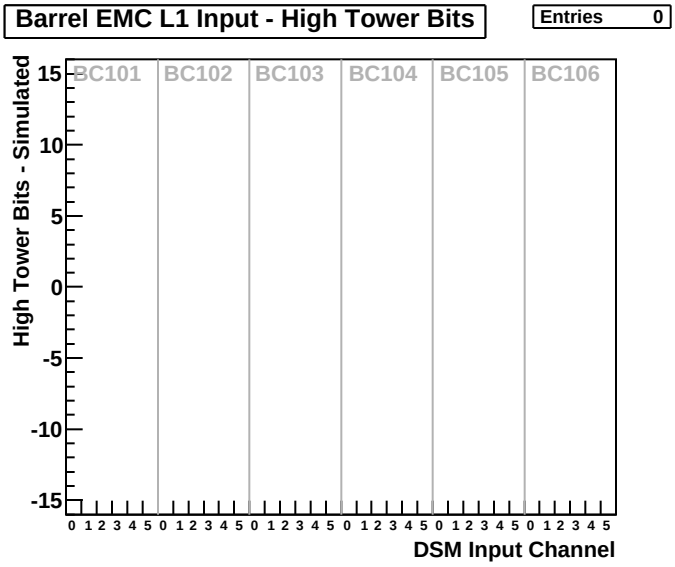

Barrel EMC L1 Input - Low Eta Sum
Entries 7902468
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

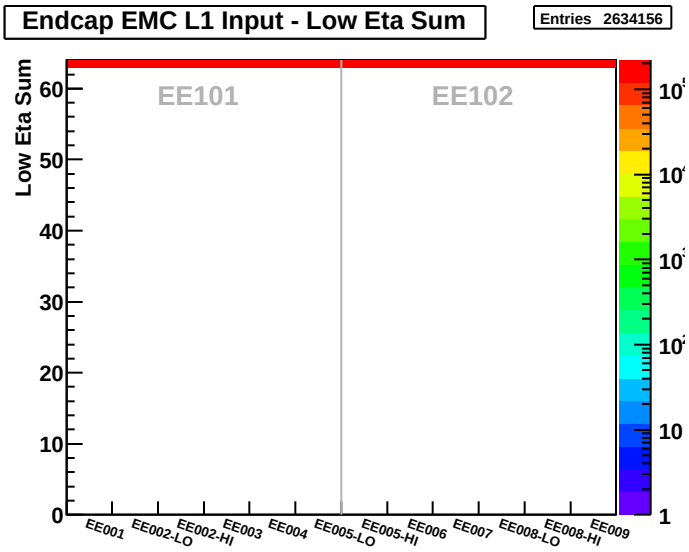

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

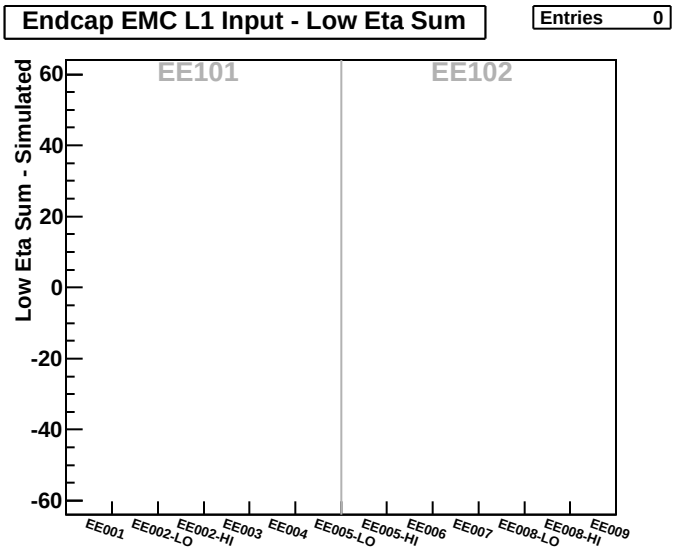

Barrel EMC L1 Input - High Eta Sum
Entries 7902468
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

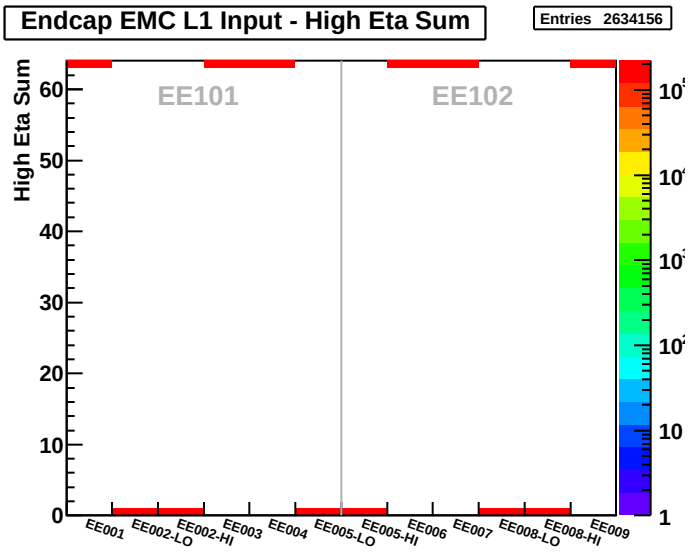

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

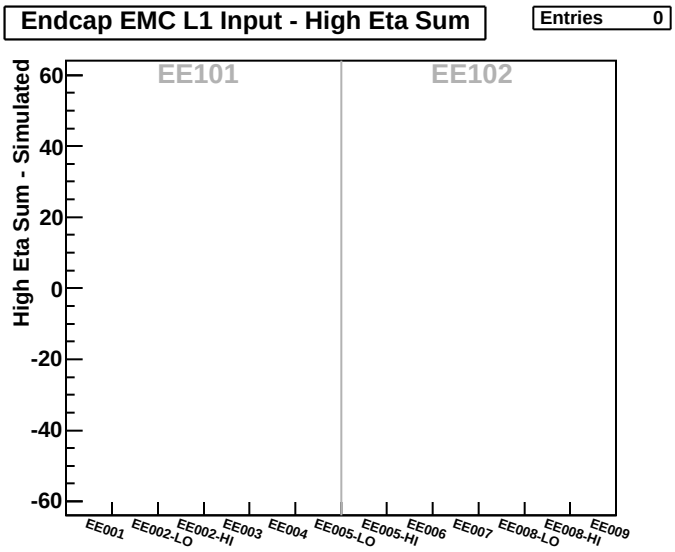

Barrel EMC L1 Input - High Tower Bits
Entries 7902468
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

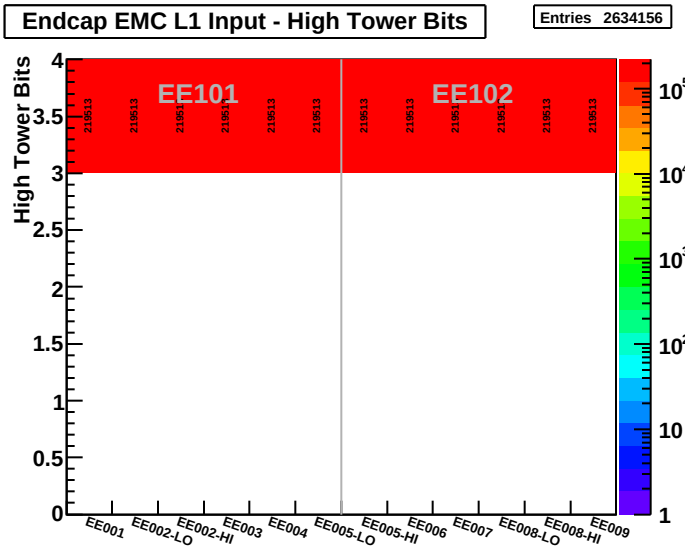

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

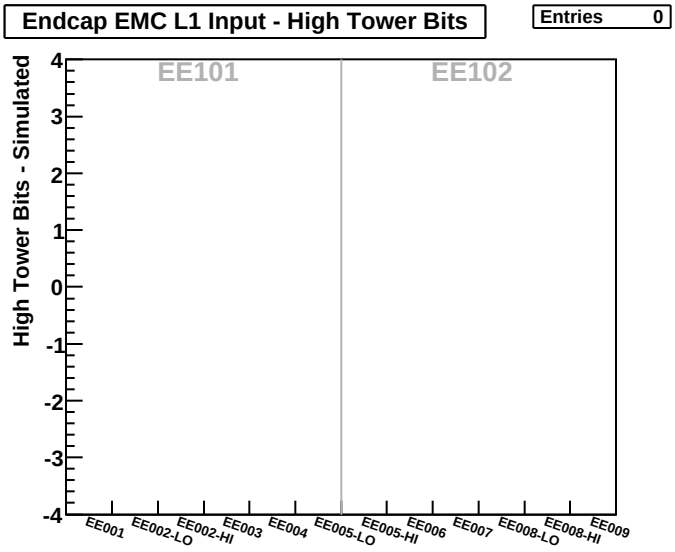

Endcap EMC L1 Input - Low Eta Sum
Entries 2634156
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

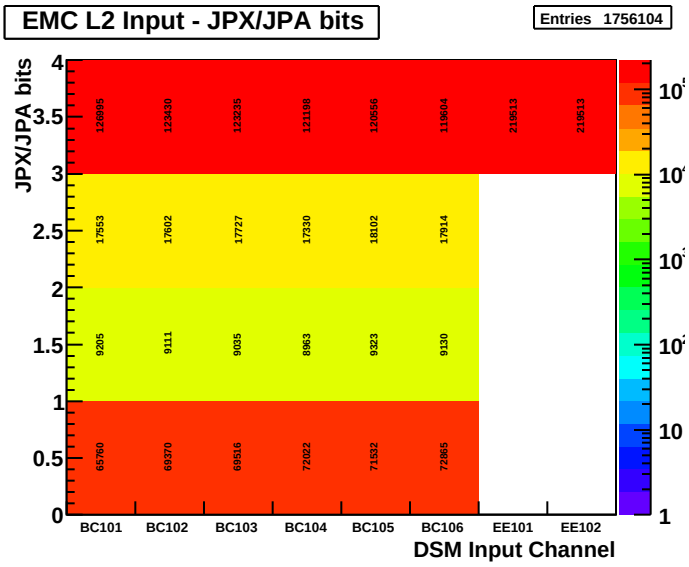

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

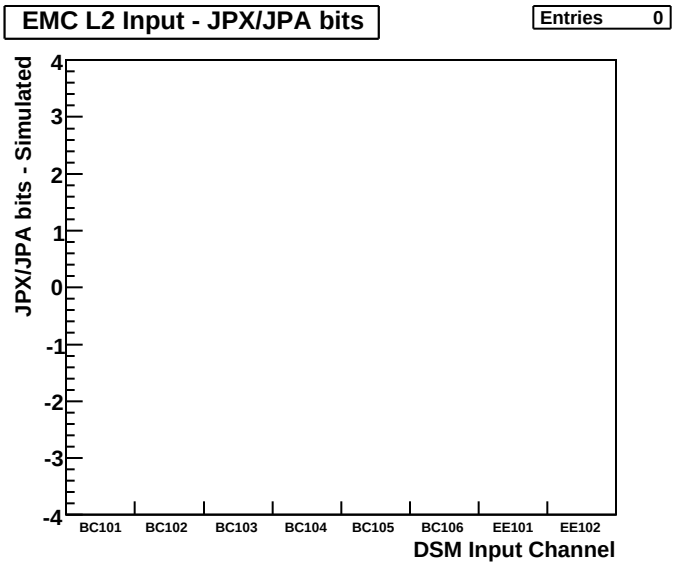

Endcap EMC L1 Input - High Eta Sum
Entries 2634156
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

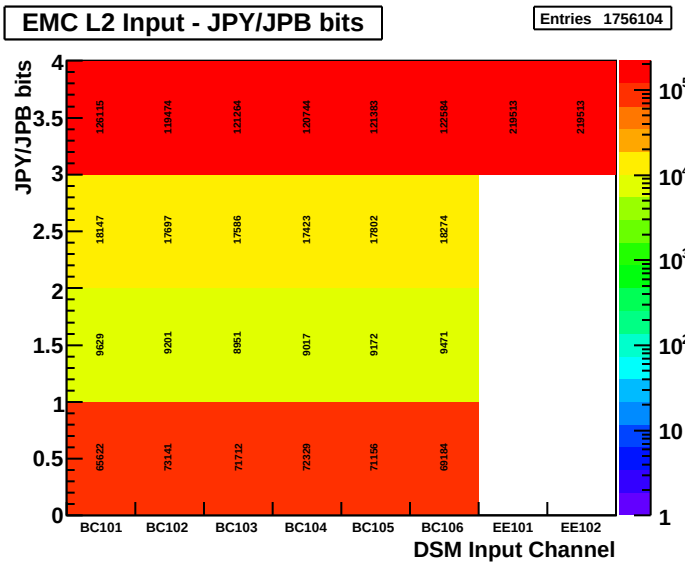

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

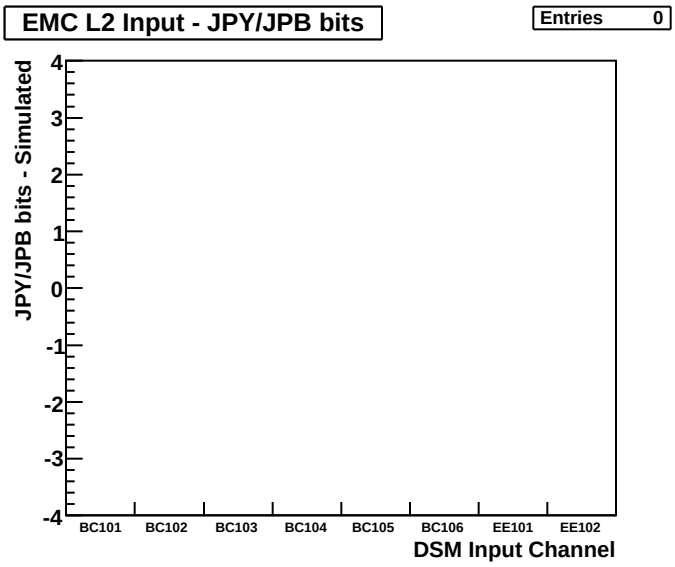

Endcap EMC L1 Input - High Tower Bits
Entries 2634156
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

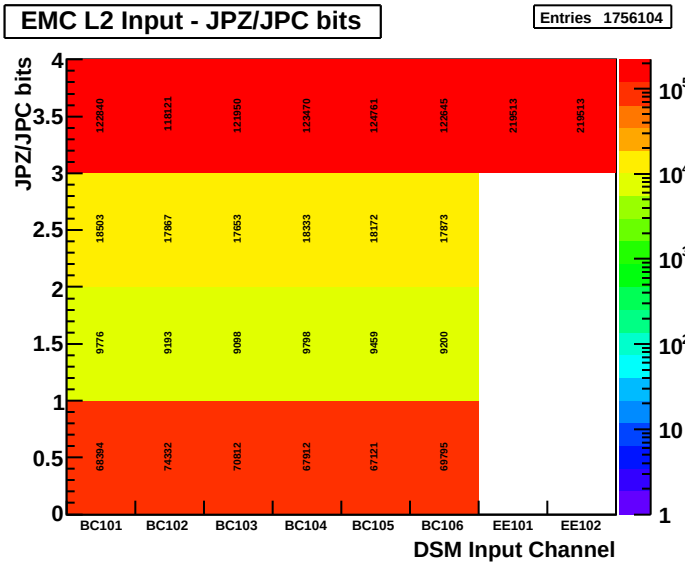

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

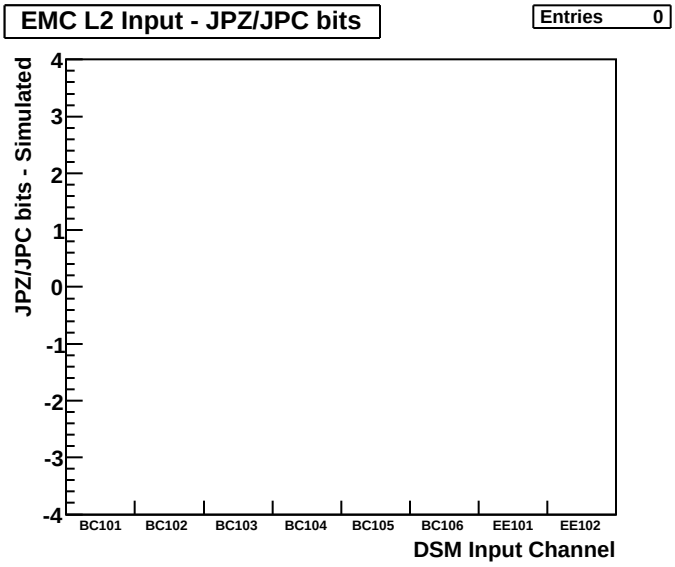

EMC L2 Input - JPX/JPA bits
Entries 1756104
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
126995 123430 123235 121198 120556 119604 219513 219513
17553 17602 17727 17330 18102 17914
9205 9111 9035 8963 9323 9130
65760 69370 69516 72202 71532 72865

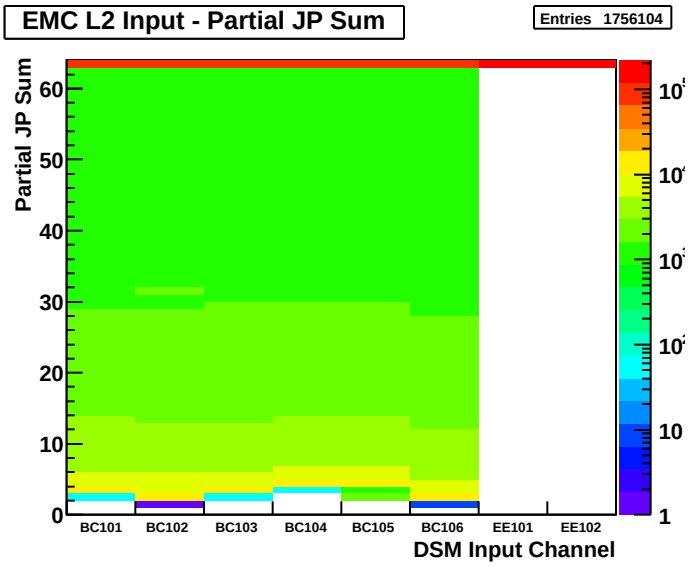

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

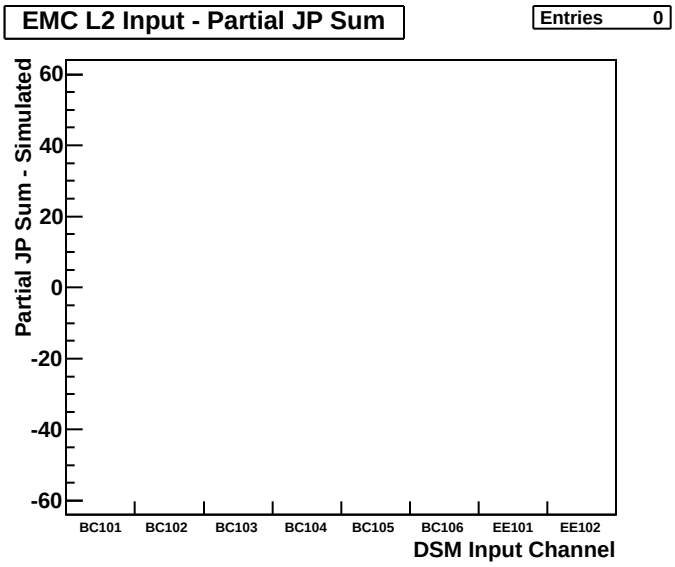

EMC L2 Input - JPY/JPB bits
Entries 1756104
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
126115 119474 121264 120744 121383 122584 219513 219513
18147 17697 17586 17423 17802 18274
9629 9201 8951 9017 9172 9471
65622 73141 71712 72329 71156 69184

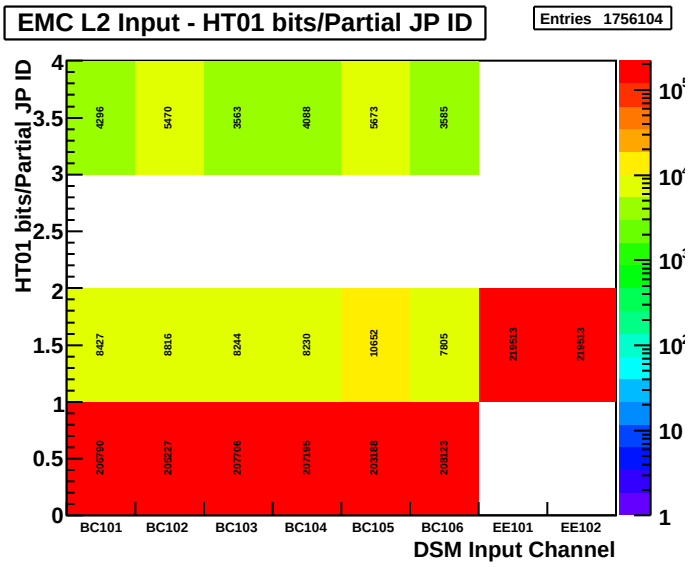

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

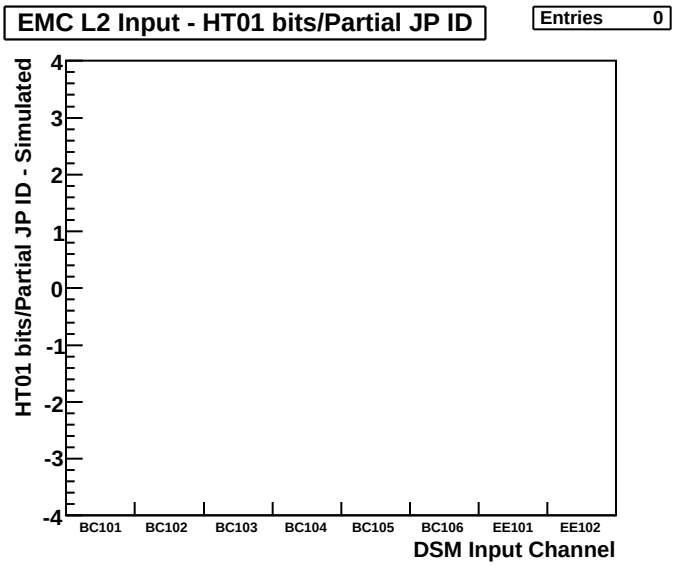

EMC L2 Input - JPZ/JPC bits
Entries 1756104
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
122840 118121 123950 123470 122761 122645 219513 219513
18503 17867 17653 18333 18172 17873
9776 9193 9098 9798 9469 9200
68394 74332 70812 67812 67121 69795

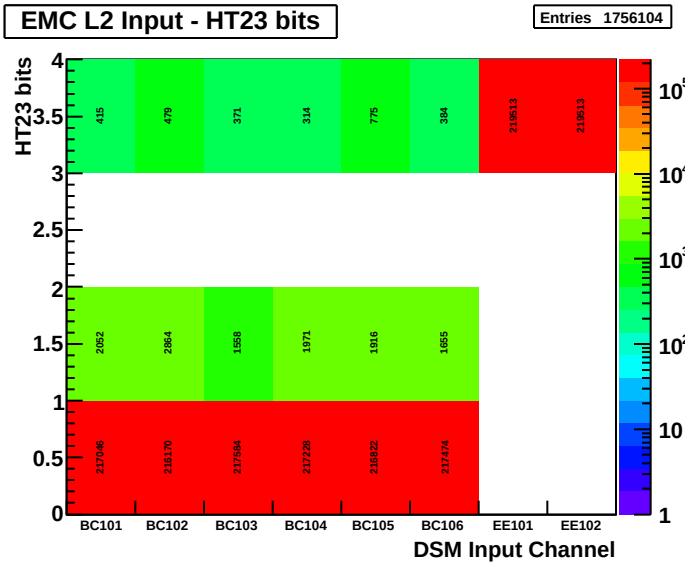

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

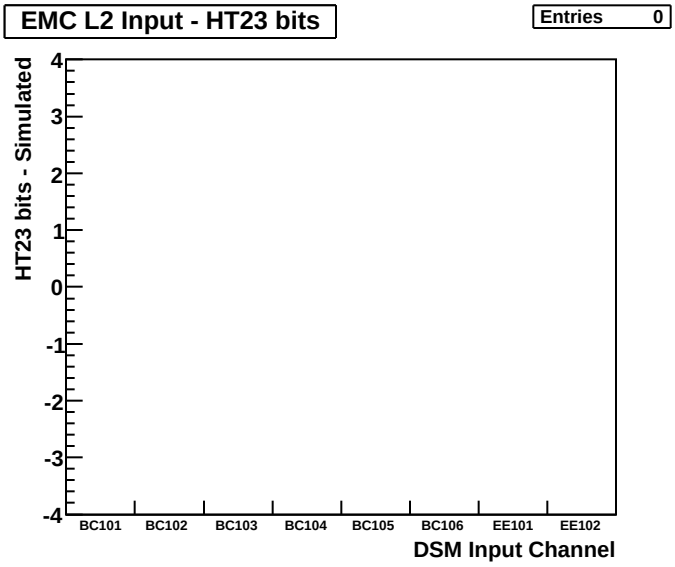

EMC L2 Input - Partial JP Sum
Entries 1756104
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

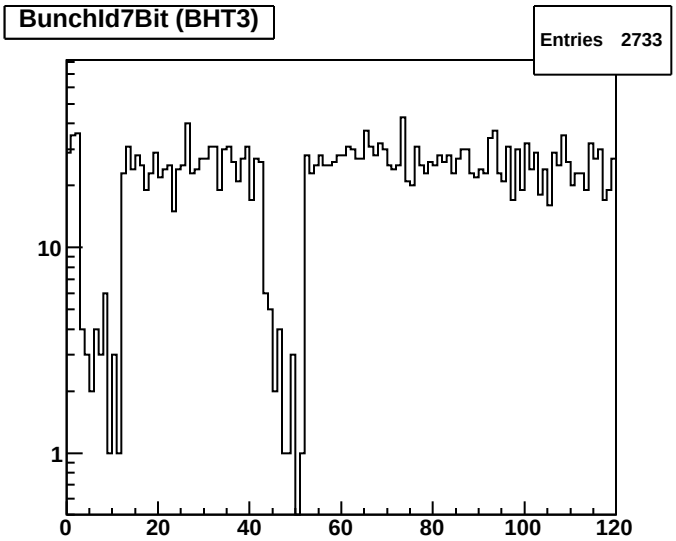

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

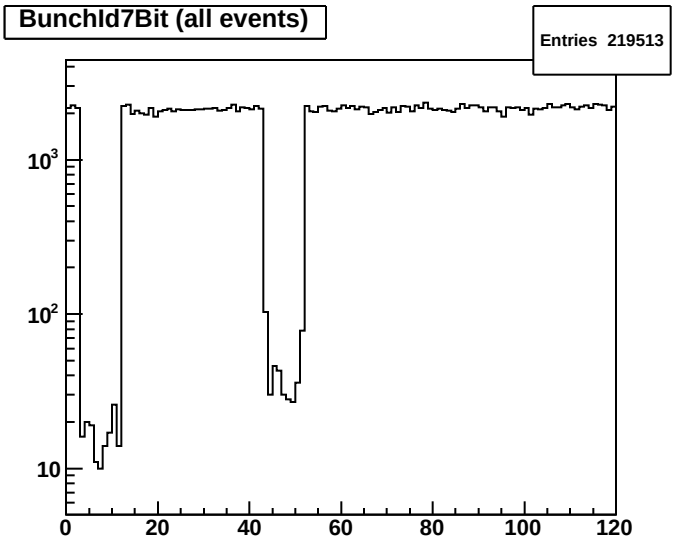

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1756104
HT01 bits/Partial JP ID
4296 5470 3563 4088 5673 3585
8427 8816 8244 8230 10652 7905 219513 219513
206790 208227 207706 207195 203188 208123
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

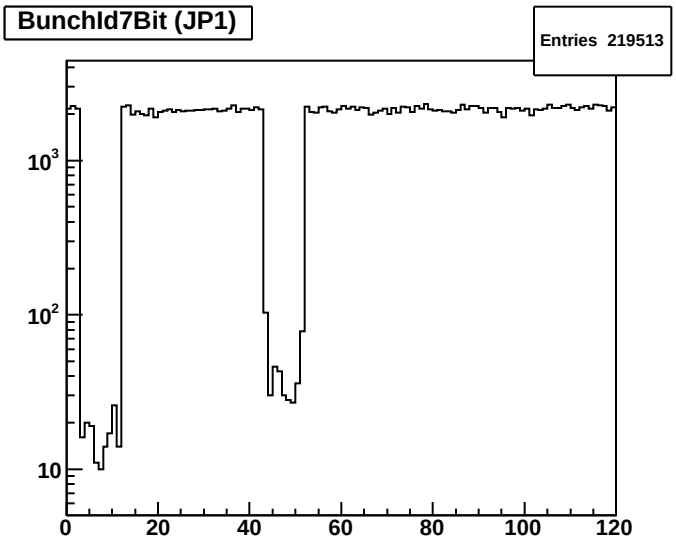

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

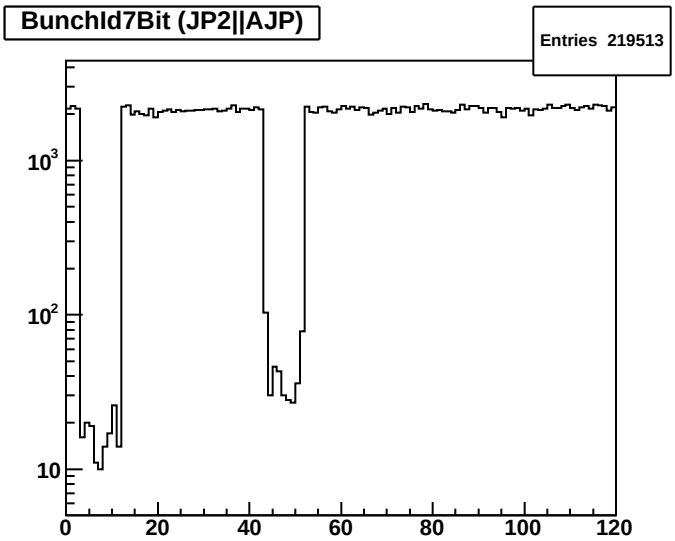

EMC L2 Input - HT23 bits
Entries 1756104
HT23 bits
415 479 371 314 775 384 219513 219513
2052 2864 1558 1971 1916 1655
217046 216170 217584 217228 216822 217474
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

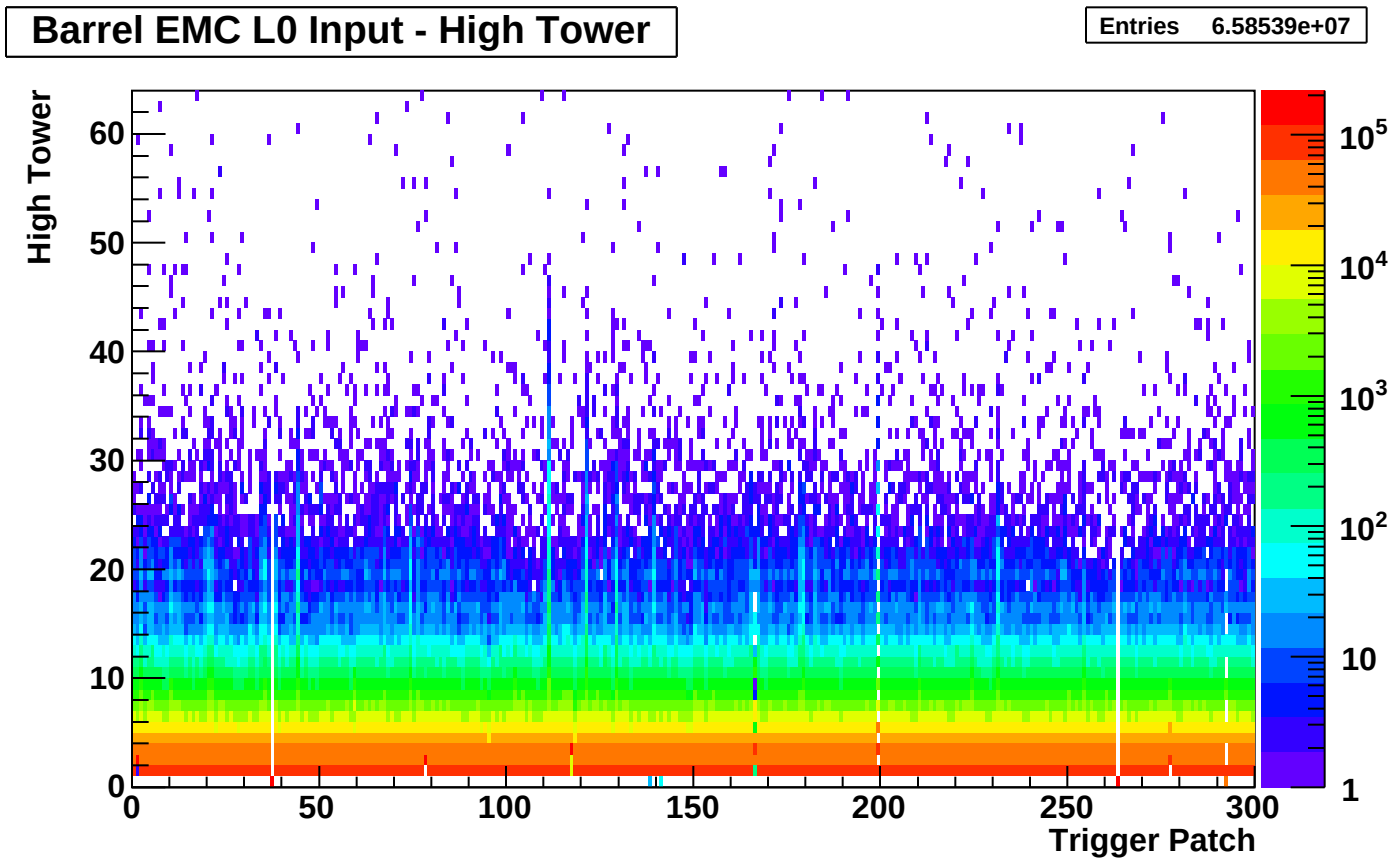

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

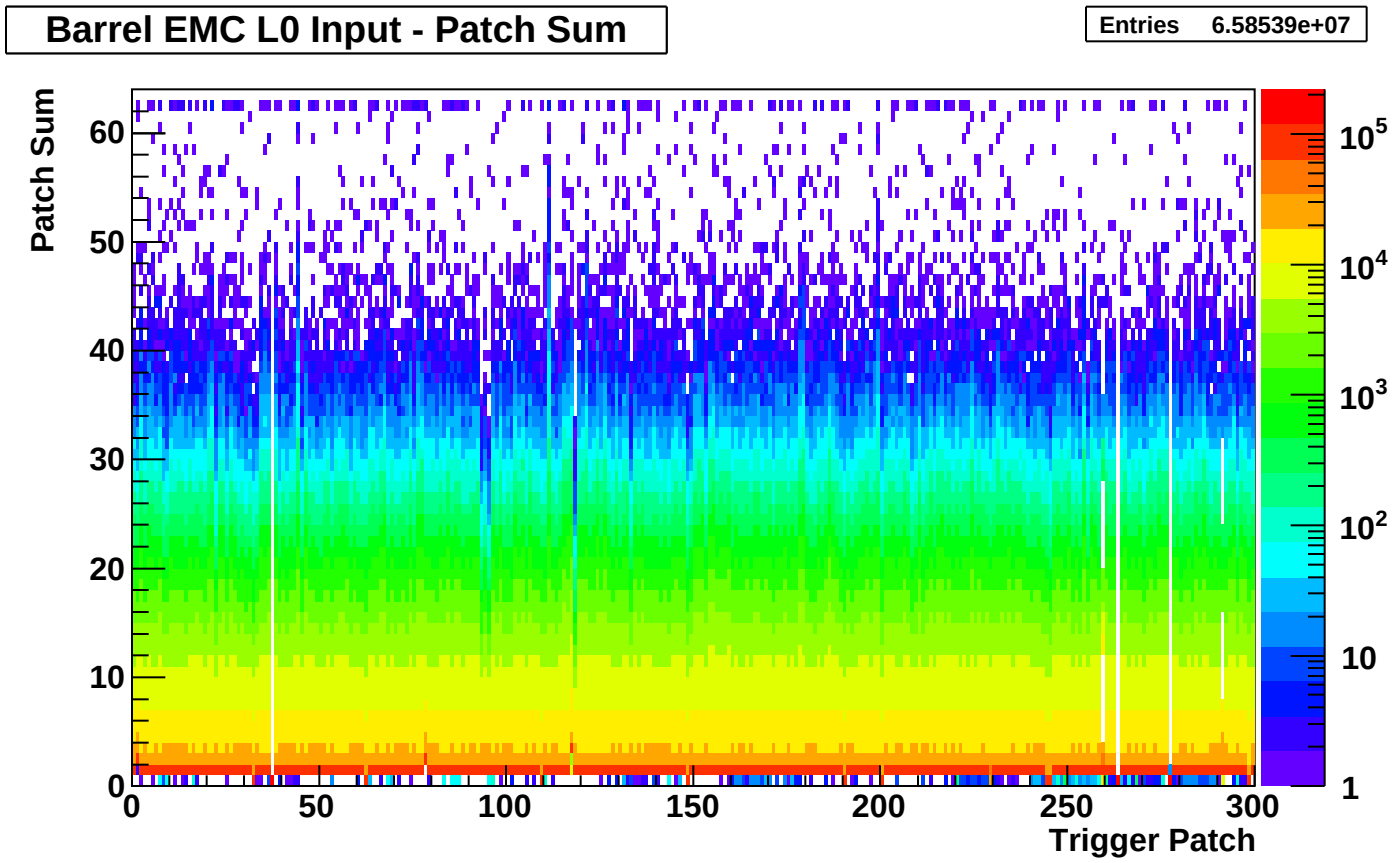

BunchId7Bit (BHT3)
Entries 2733
10
1
0
20
40
60
80
100
120

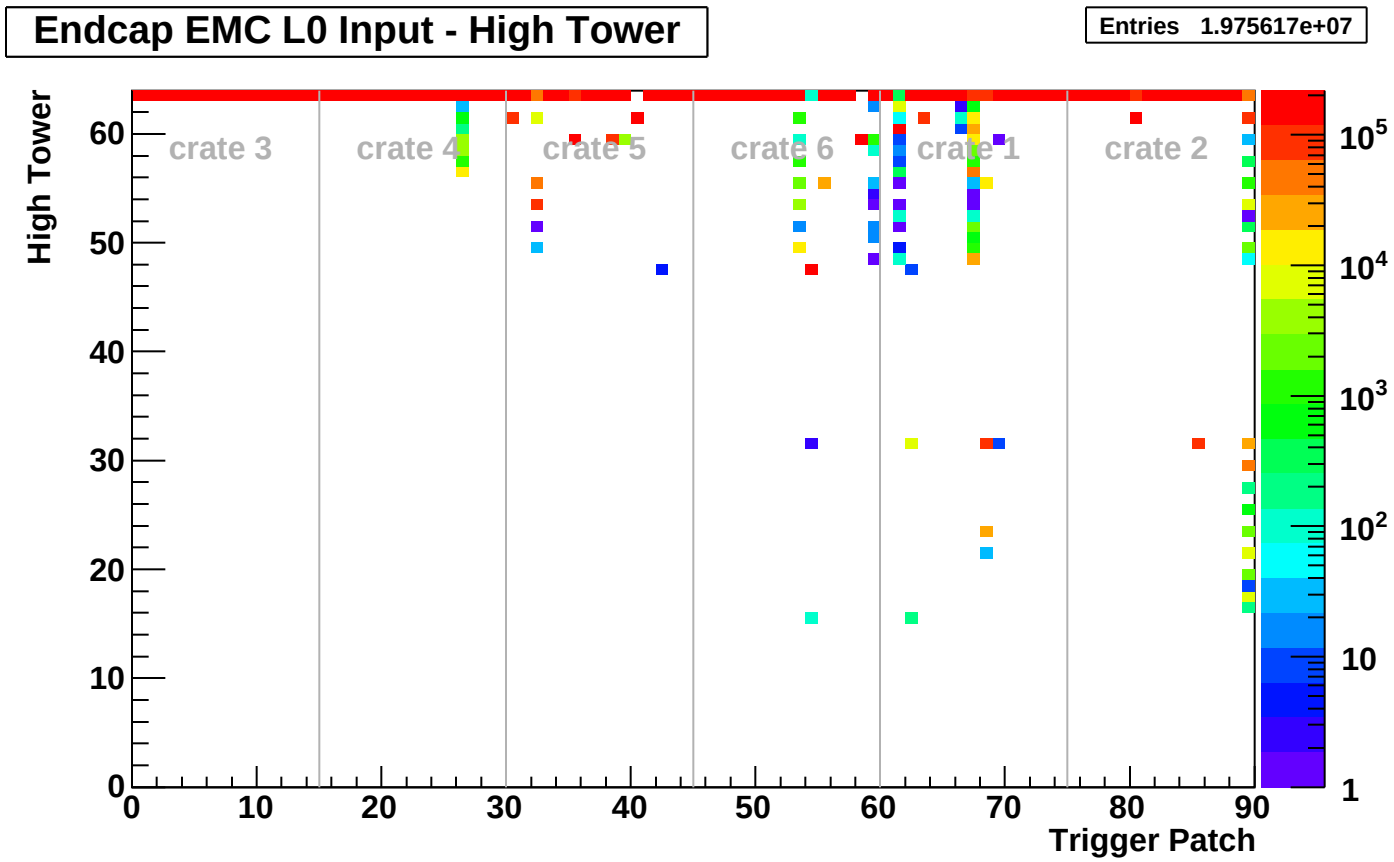

BunchId7Bit (all events)
Entries 219513
10^3
10^2
10
0
20
40
60
80
100
120

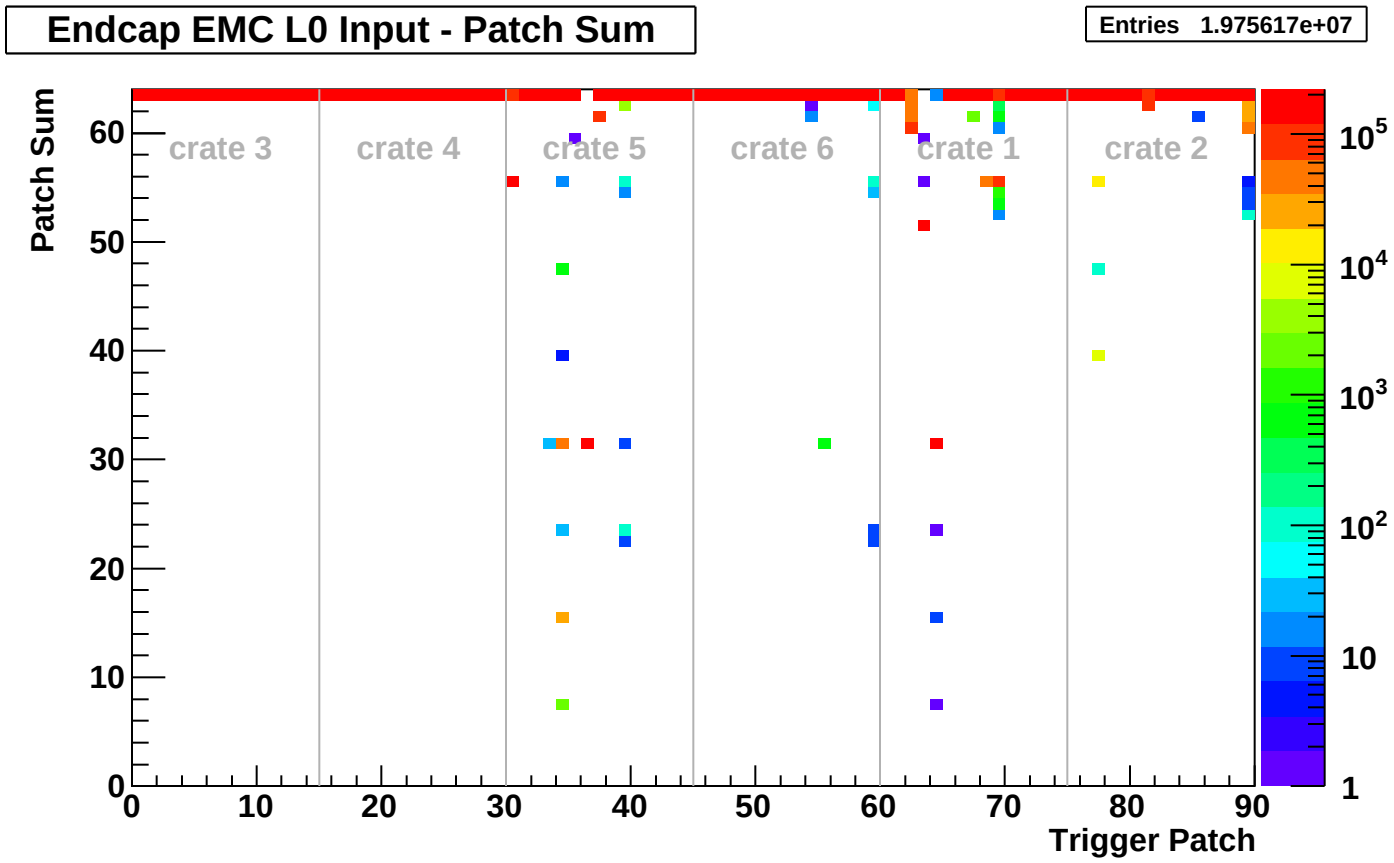

BunchId7Bit (JP1)
Entries 219513
10^3
10^2
10
0
20
40
60
80
100
120

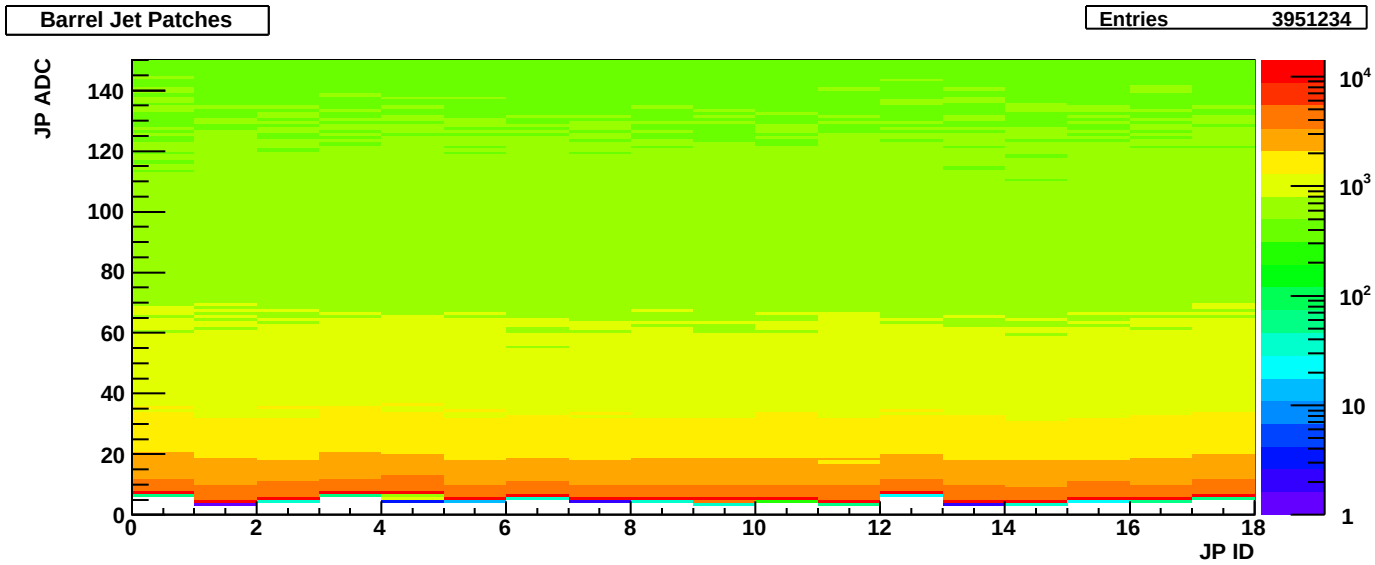

BunchId7Bit (JP2||AJP)
Entries 219513
10^3
10^2
10
0
20
40
60
80
100
120

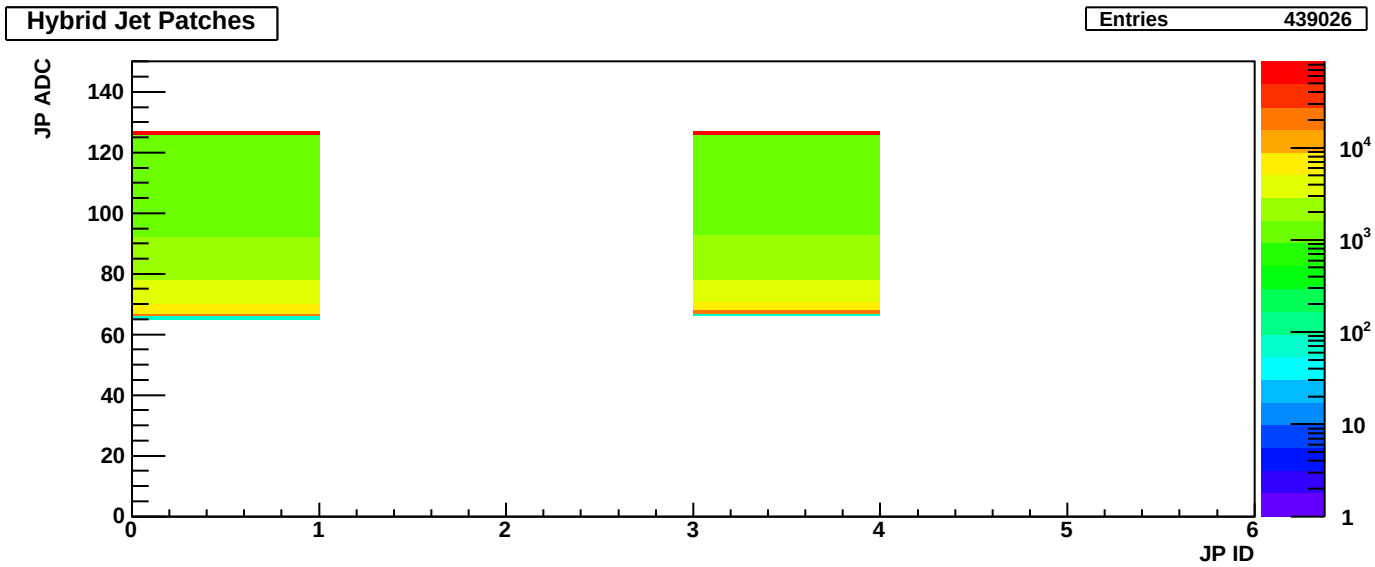

Barrel EMC L0 Input - High Tower
Entries 6.58539e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

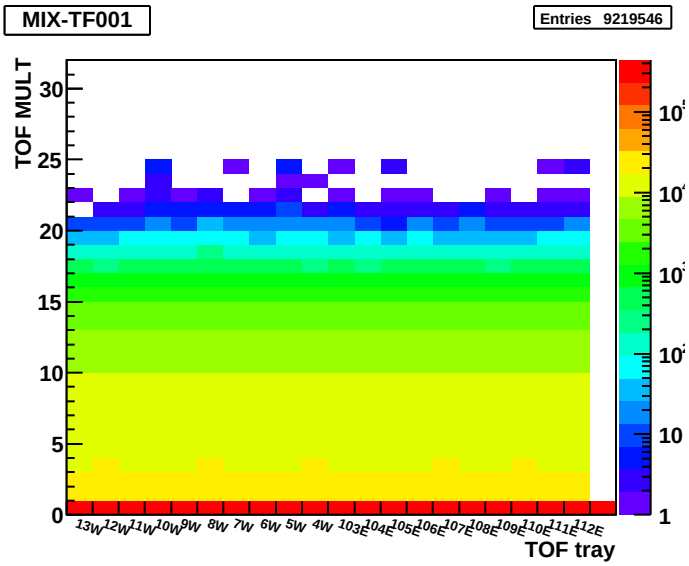

Barrel EMC L0 Input - Patch Sum
Entries 6.58539e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

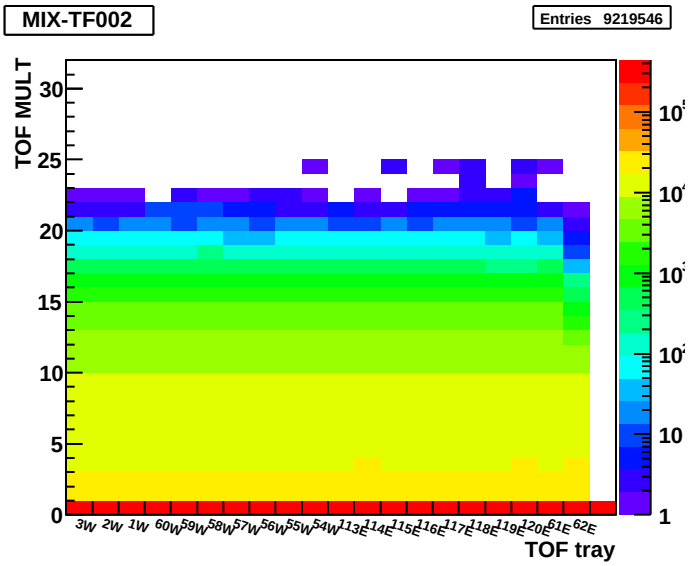

Endcap EMC L0 Input - High Tower
Entries 1.975617e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

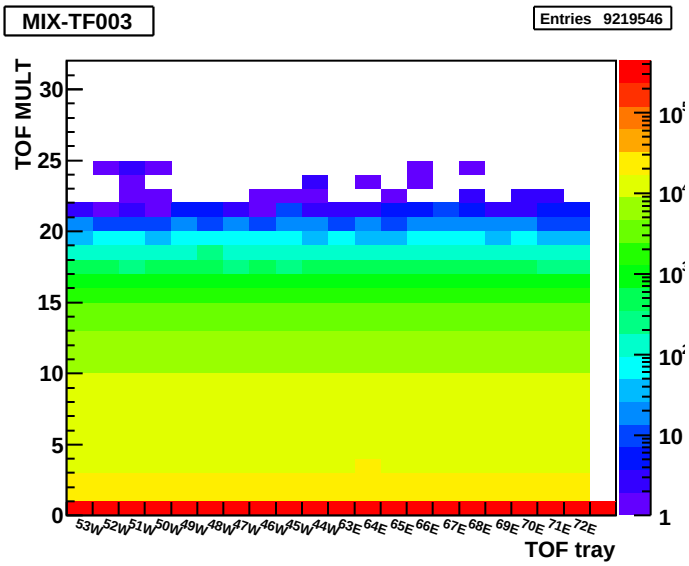

Endcap EMC L0 Input - Patch Sum
Entries 1.975617e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

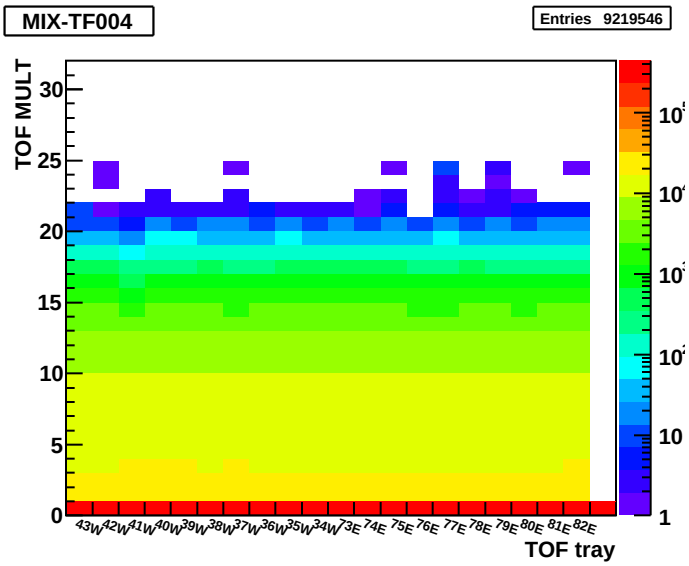

Barrel Jet Patches
Entries 3951234
JP ADC
JP ID

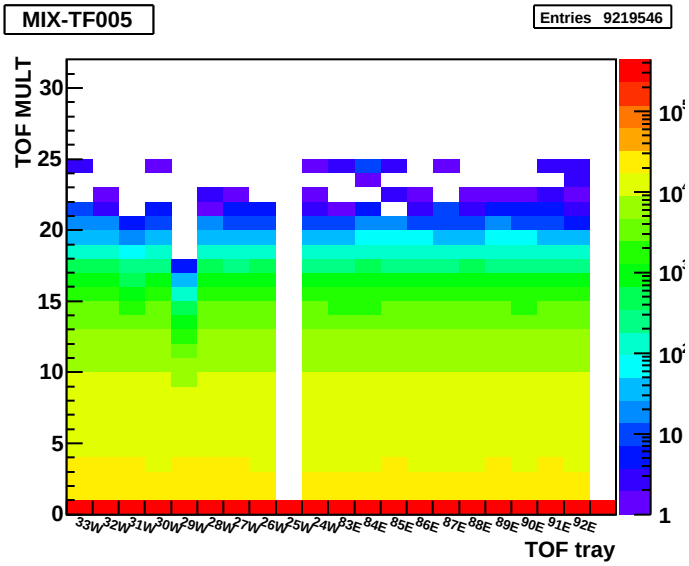

Hybrid Jet Patches
Entries 439026
JP ADC
JP ID

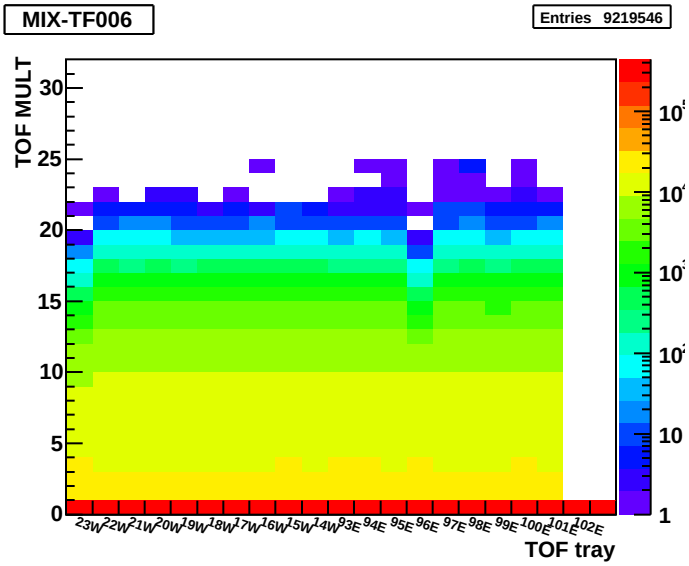

MIX-TF001
Entries 9219546
TOF MULT
TOF tray

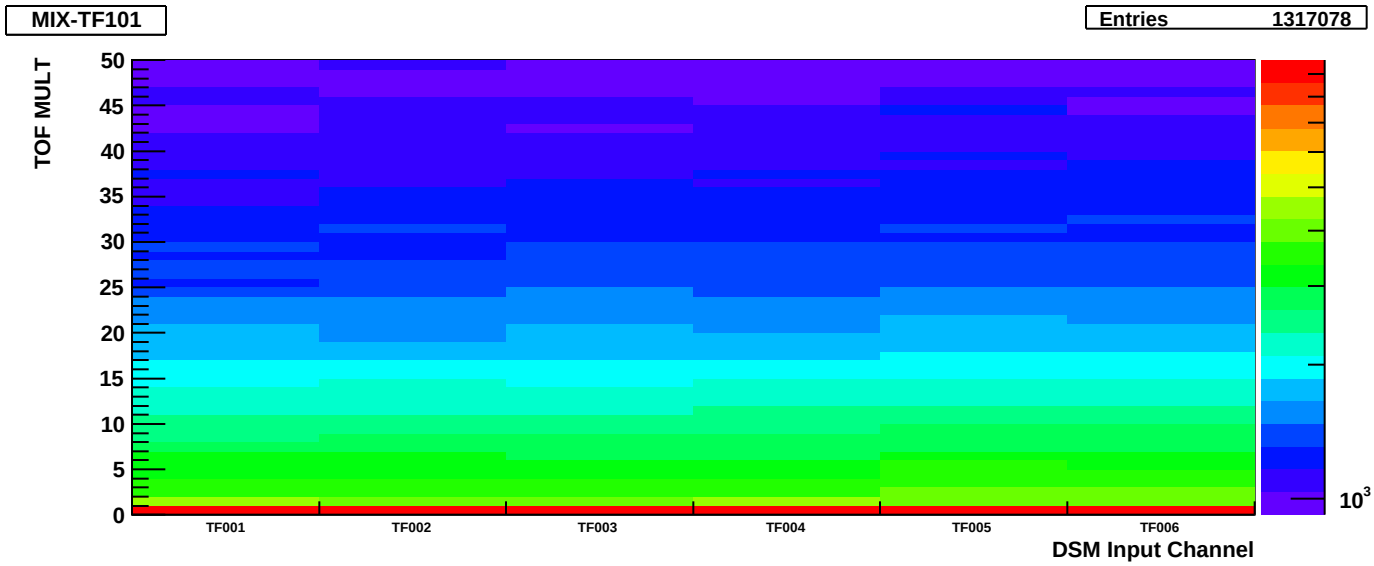

MIX-TF002
Entries 9219546
TOF MULT
TOF tray

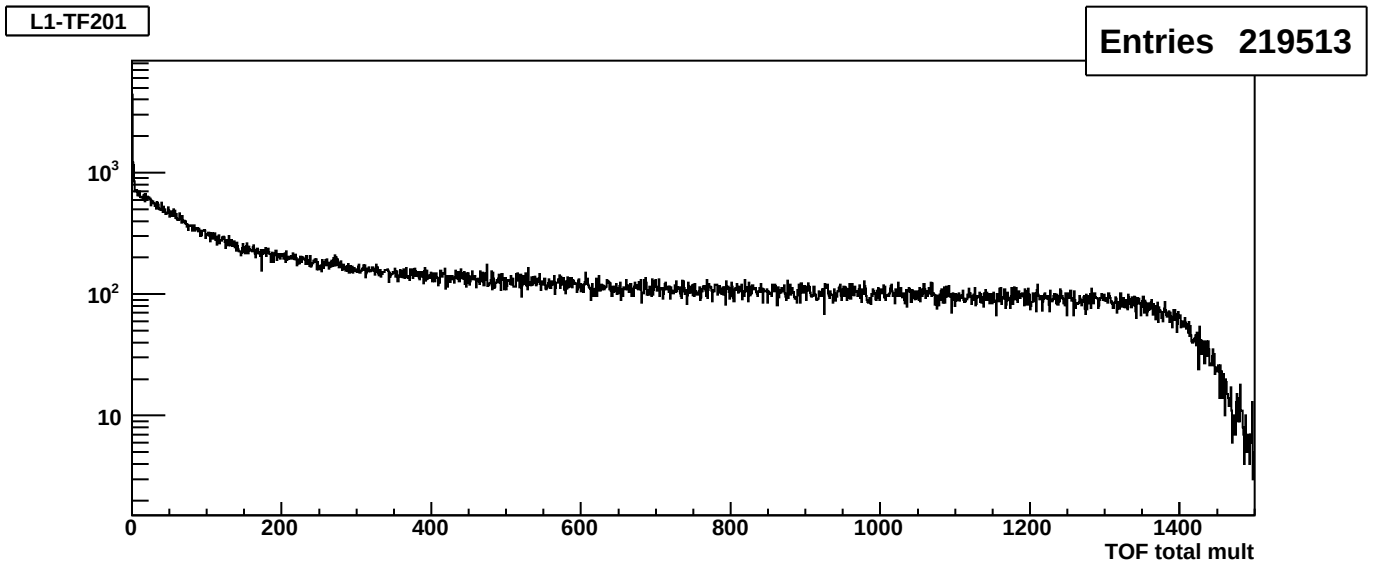

MIX-TF003
Entries 9219546
TOF MULT
TOF tray

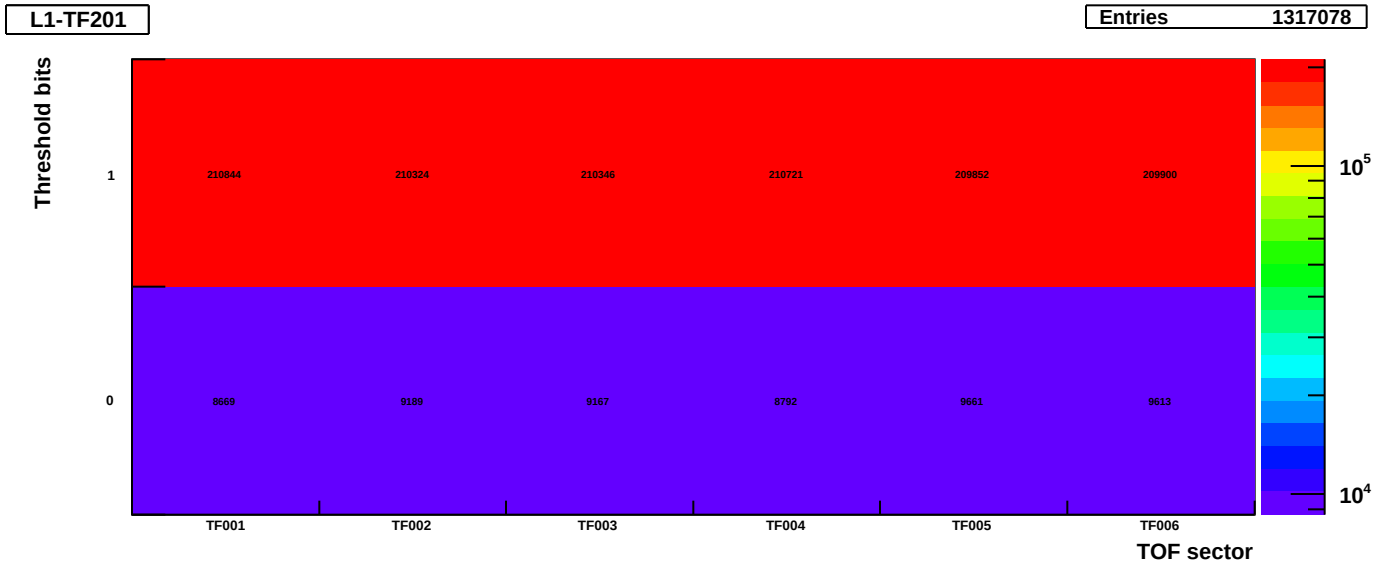

MIX-TF004
Entries 9219546
TOF MULT
TOF tray

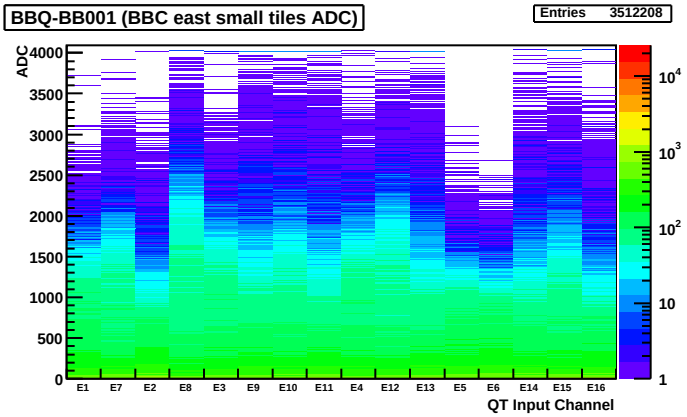

MIX-TF005
Entries 9219546
TOF MULT
TOF tray

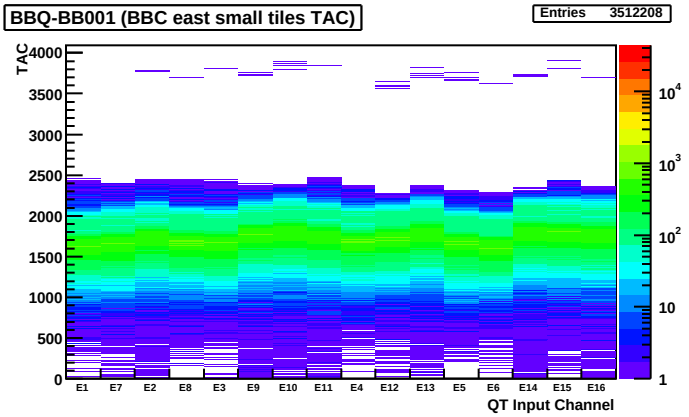

MIX-TF006
Entries 9219546
TOF MULT
TOF tray

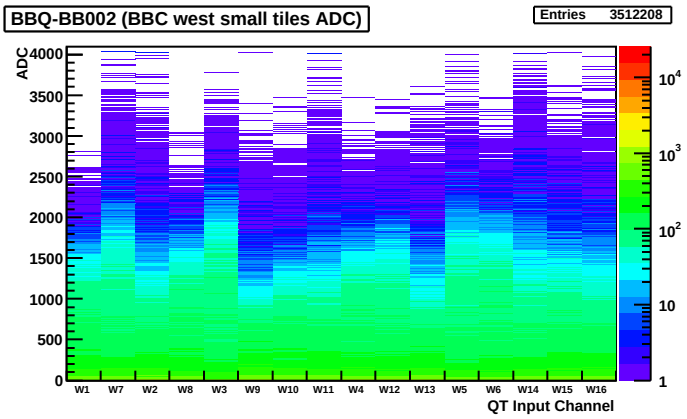

MIX-TF101
Entries 1317078
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

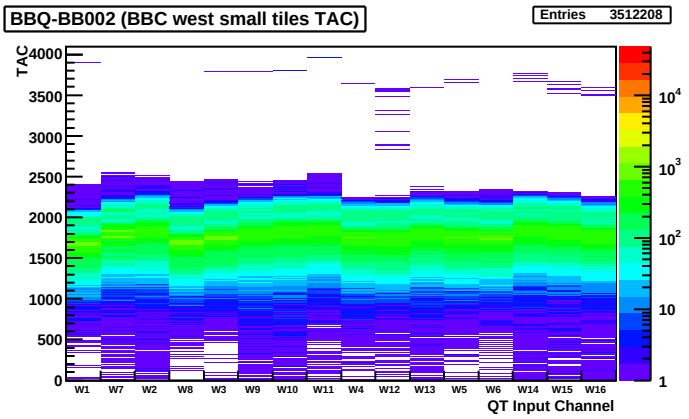

L1-TF201
Entries 219513
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

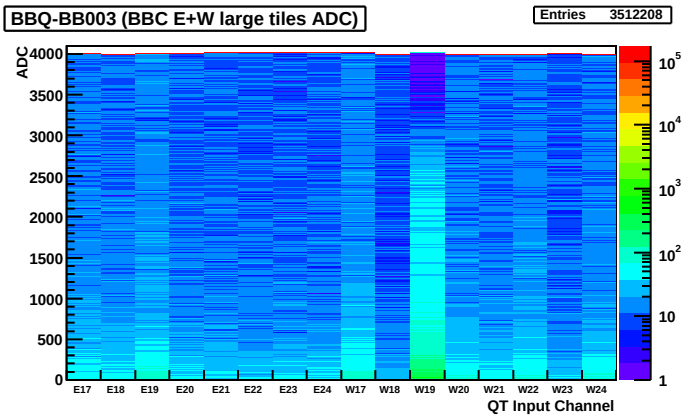

L1-TF201
Entries 1317078
Threshold bits
1
0
210844
210324
210346
210721
209852
209900
8669
9189
9167
8792
9661
9613
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

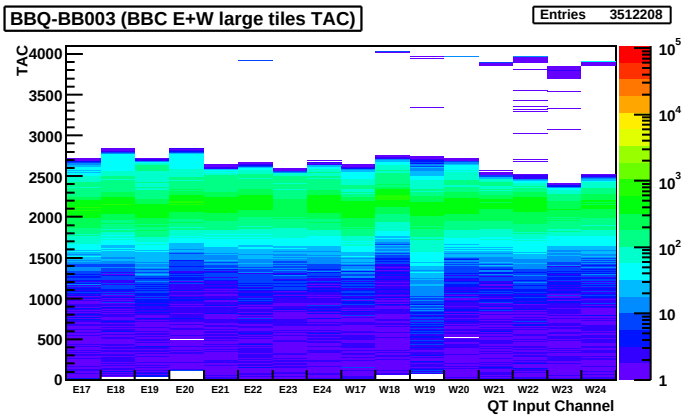

BBQ-BB001 (BBC east small tiles ADC)
Entries 3512208
ADC
QT Input Channel

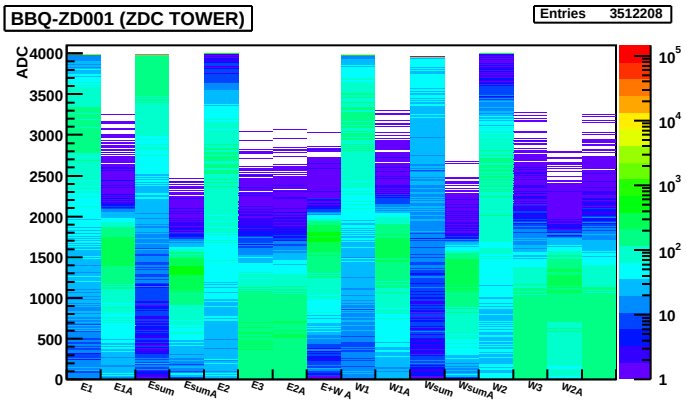

BBQ-BB001 (BBC east small tiles TAC)
Entries 3512208
TAC
QT Input Channel

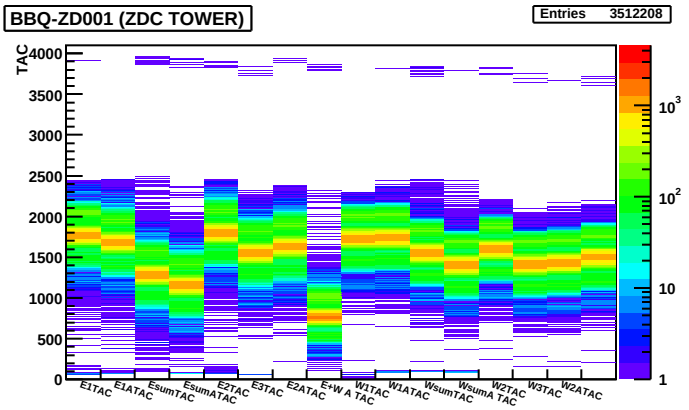

BBQ-BB002 (BBC west small tiles ADC)
Entries 3512208
ADC
QT Input Channel

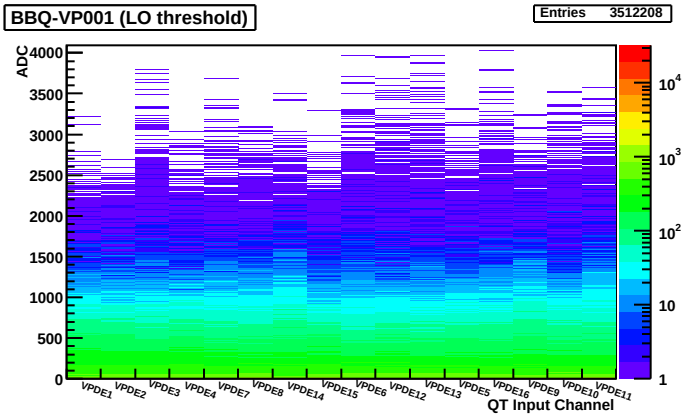

BBQ-BB002 (BBC west small tiles TAC)
Entries 3512208
TAC
QT Input Channel

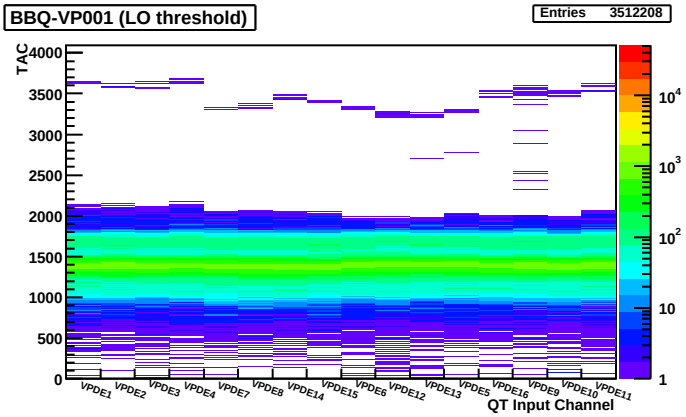

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3512208
ADC
QT Input Channel

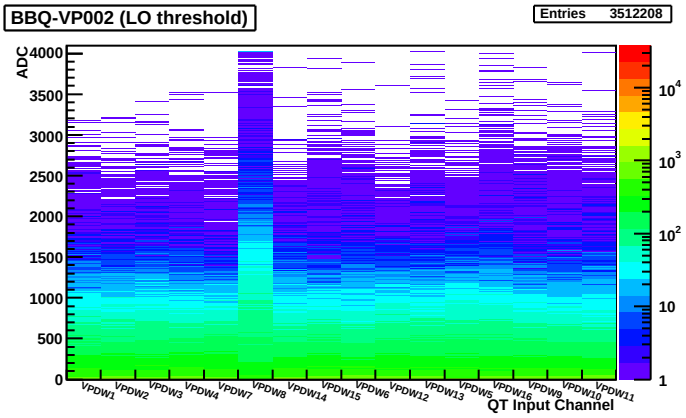

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3512208
TAC
QT Input Channel

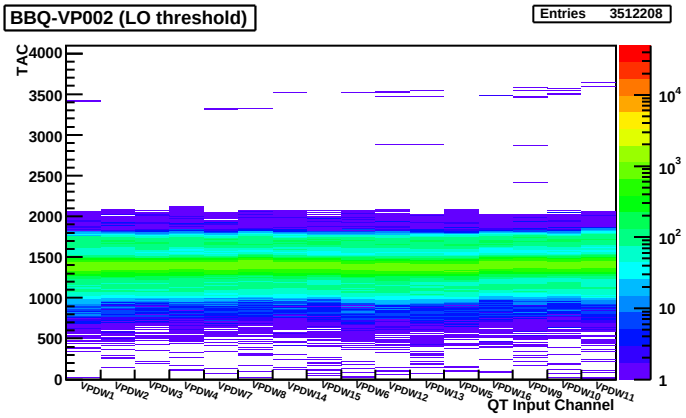

BBQ-ZD001 (ZDC TOWER)
Entries 3512208
ADC

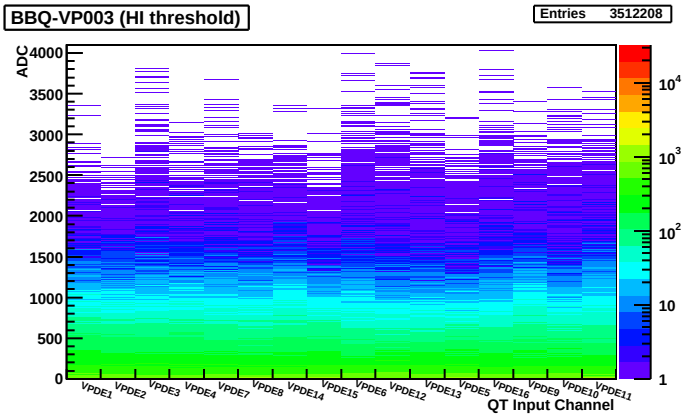

BBQ-ZD001 (ZDC TOWER)
Entries 3512208
TAC

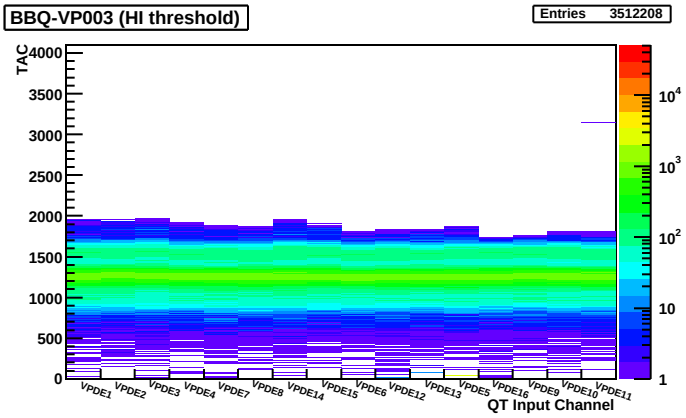

BBQ-VP001 (LO threshold)
Entries 3512208
ADC
QT Input Channel

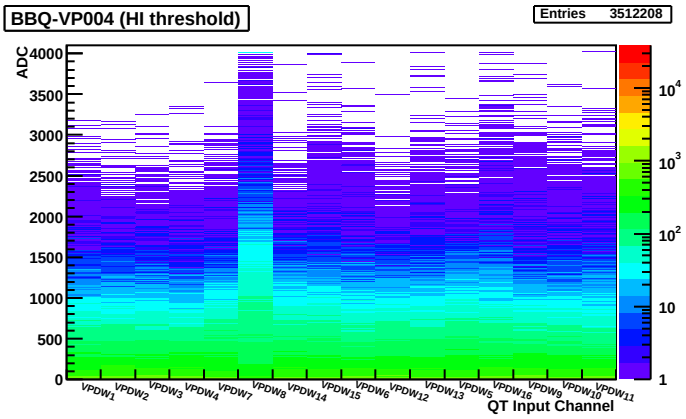

BBQ-VP001 (LO threshold)
Entries 3512208
TAC
QT Input Channel

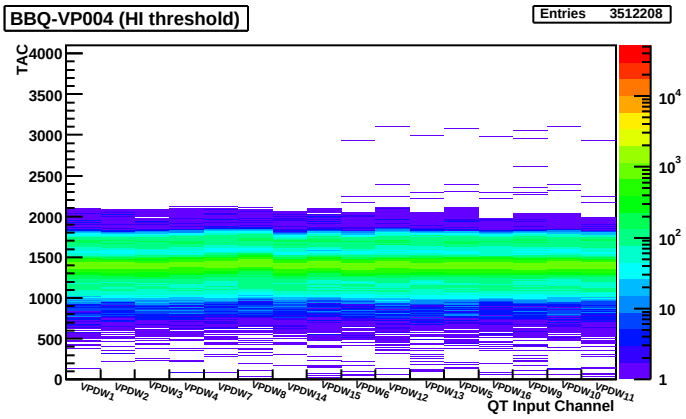

BBQ-VP002 (LO threshold)
Entries 3512208
ADC
QT Input Channel

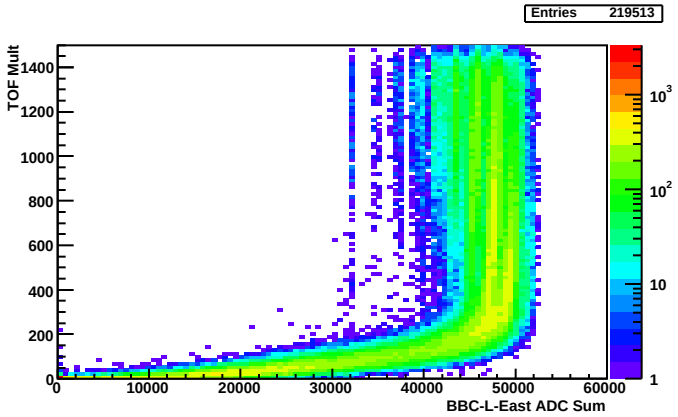

BBQ-VP002 (LO threshold)
Entries 3512208
TAC
QT Input Channel

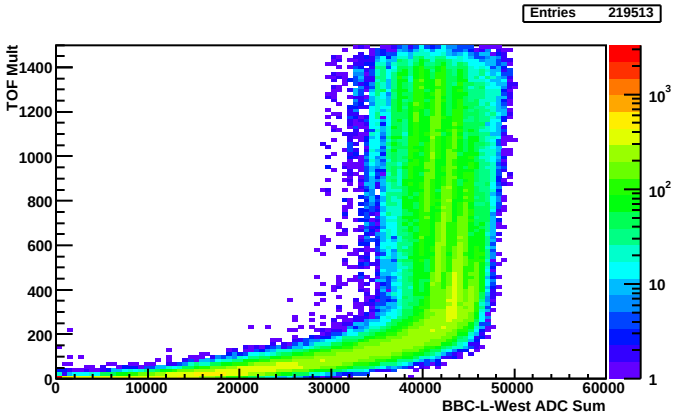

BBQ-VP003 (HI threshold)
Entries 3512208
ADC
QT Input Channel

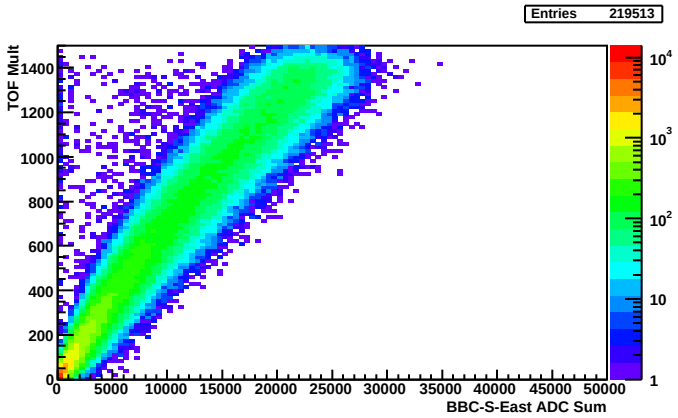

BBQ-VP003 (HI threshold)
Entries 3512208
TAC
QT Input Channel

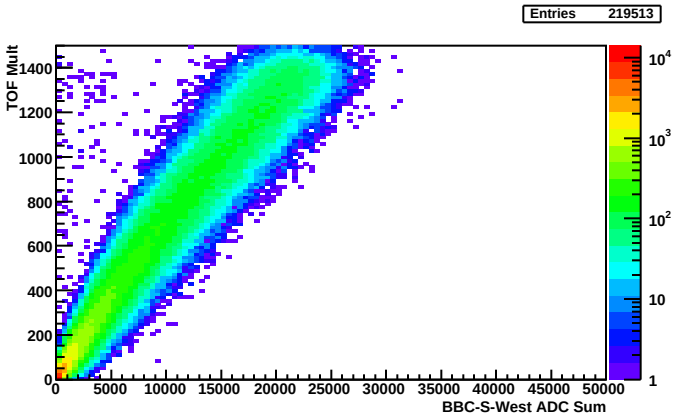

BBQ-VP004 (HI threshold)
Entries 3512208
ADC
QT Input Channel

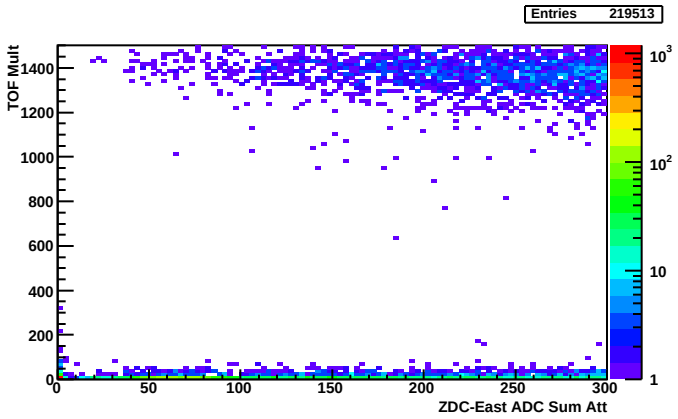

BBQ-VP004 (HI threshold)
Entries 3512208
TAC
QT Input Channel

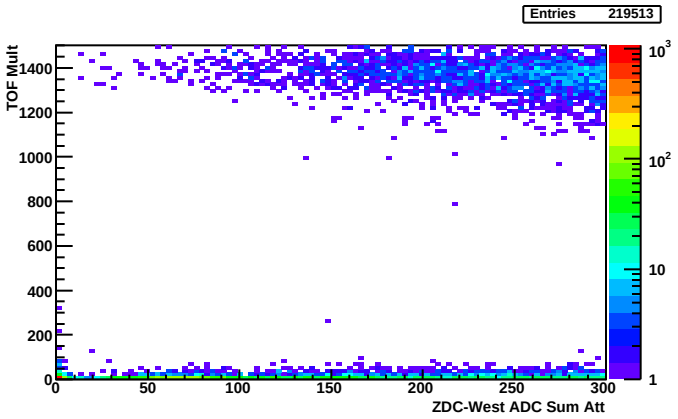

Entries 219513
TOF Mult
BBC-L-East ADC Sum

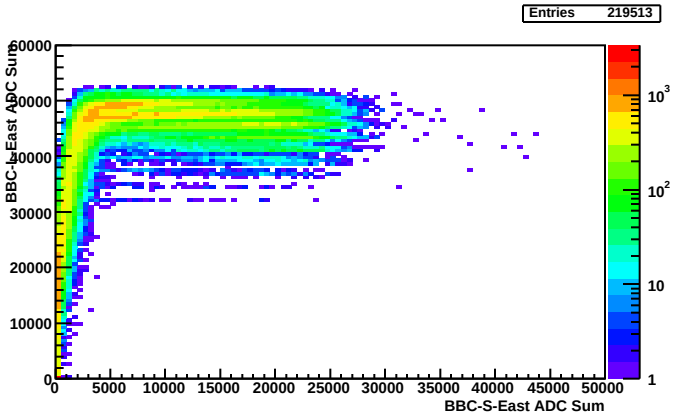

Entries 219513
TOF Mult
BBC-L-West ADC Sum

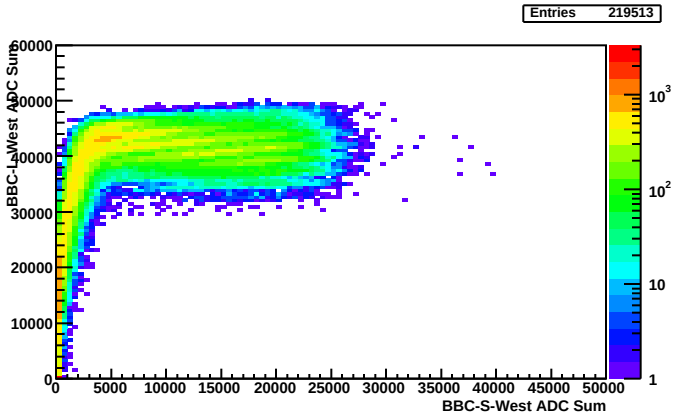

Entries 219513
TOF Mult
BBC-S-East ADC Sum

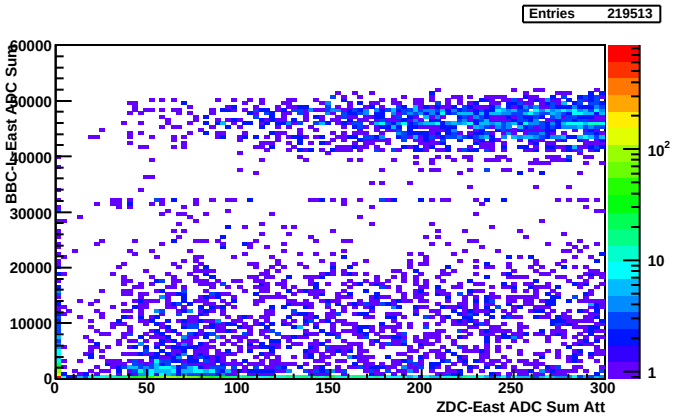

Entries 219513
TOF Mult
BBC-S-West ADC Sum

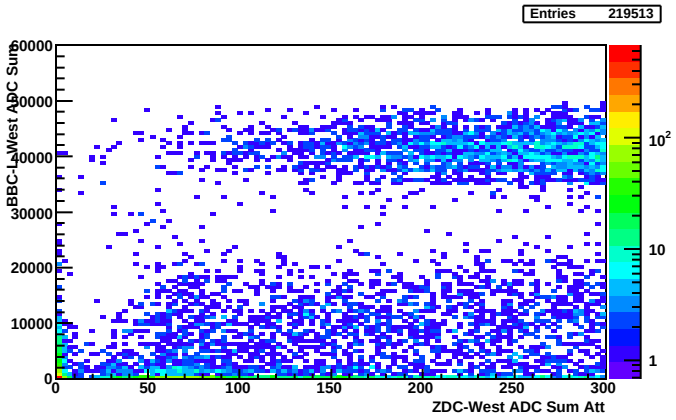

Entries 219513
TOF Mult
ZDC-East ADC Sum Att


Entries 219513
TOF Mult
ZDC-West ADC Sum Att


Entries 219513
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 219513
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 219513
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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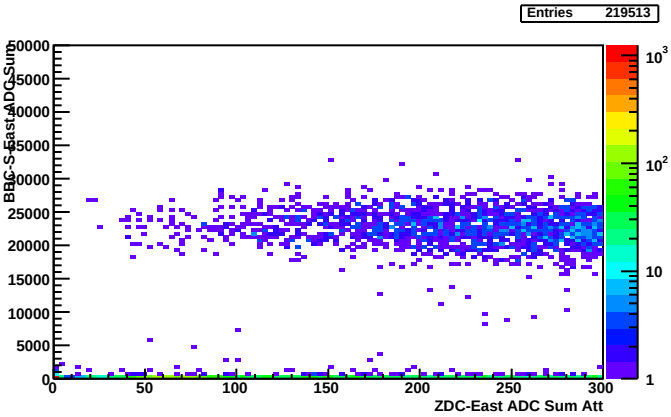
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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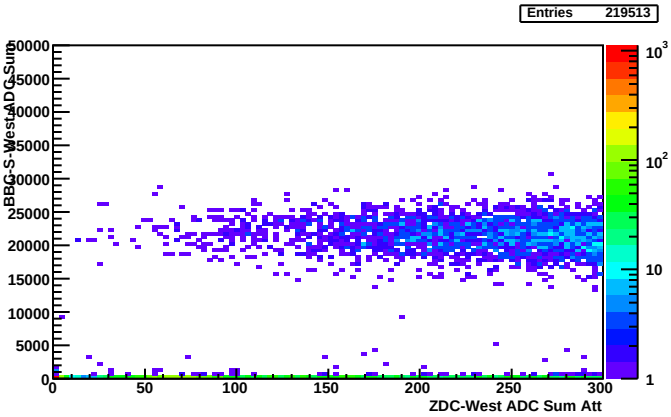
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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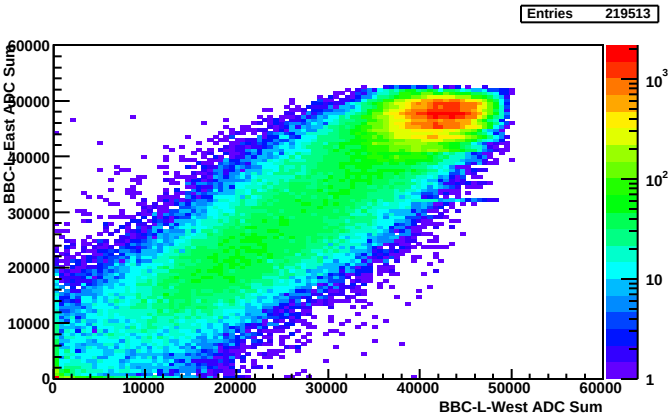
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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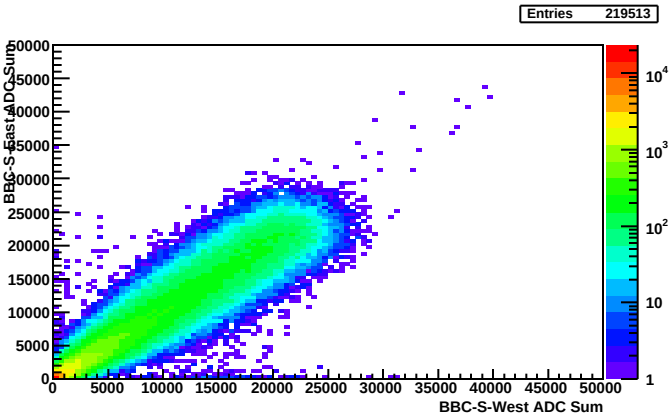
BBC-L-East ADC Sum
BBC-L-West ADC Sum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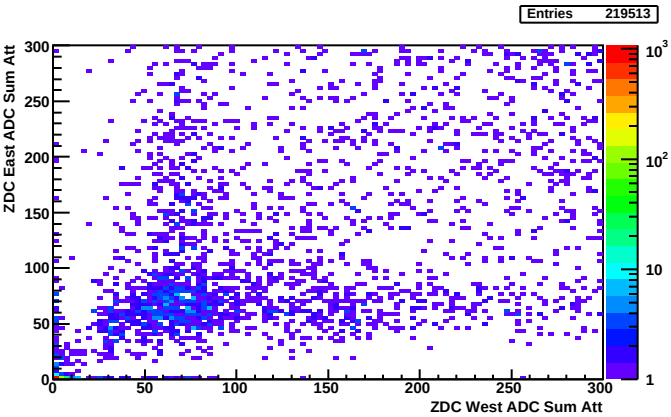
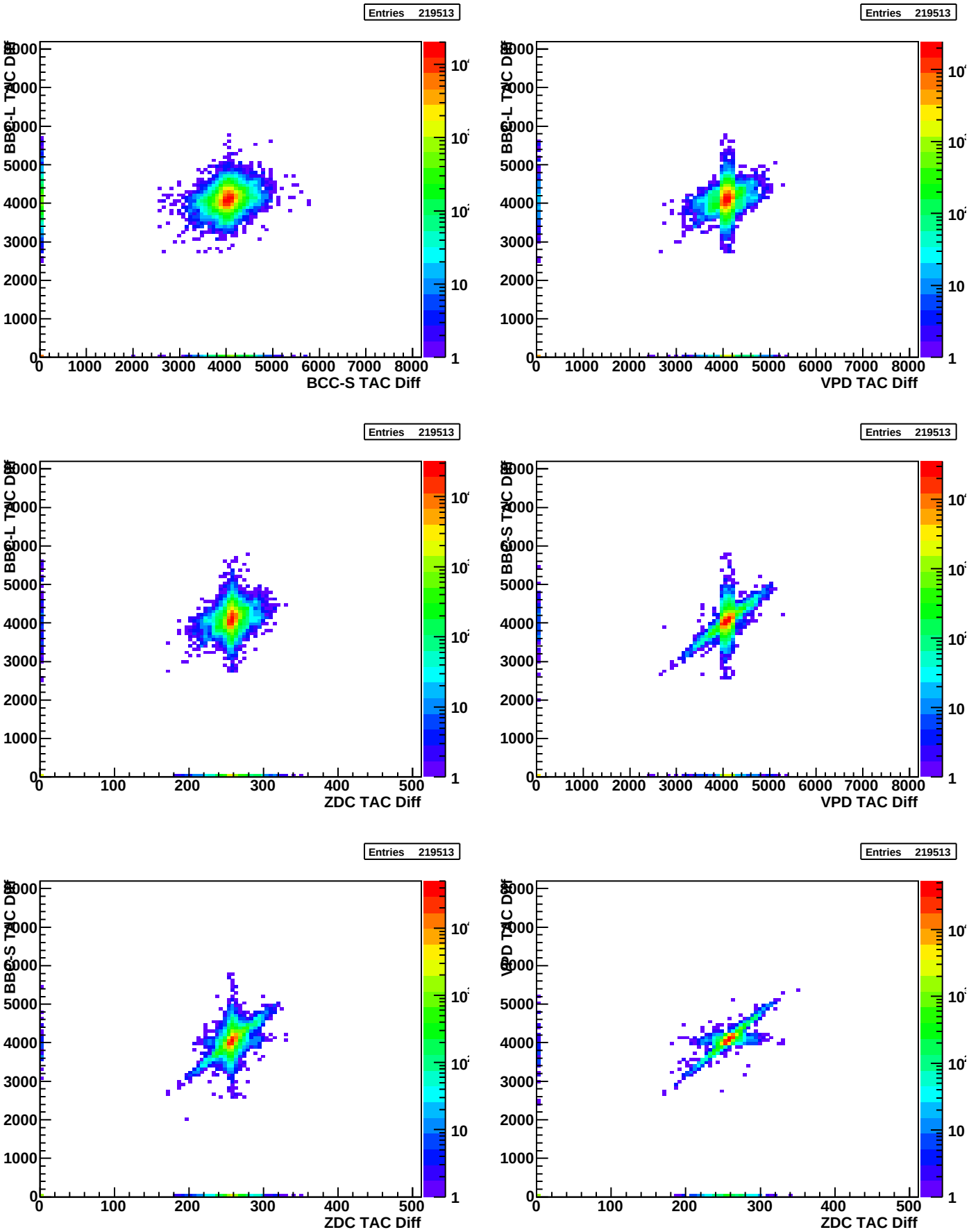
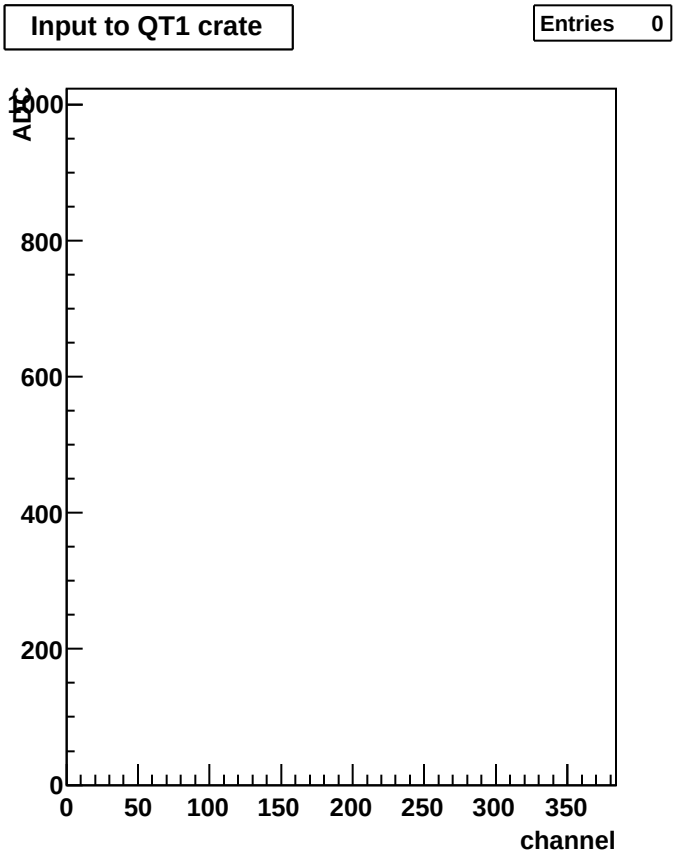
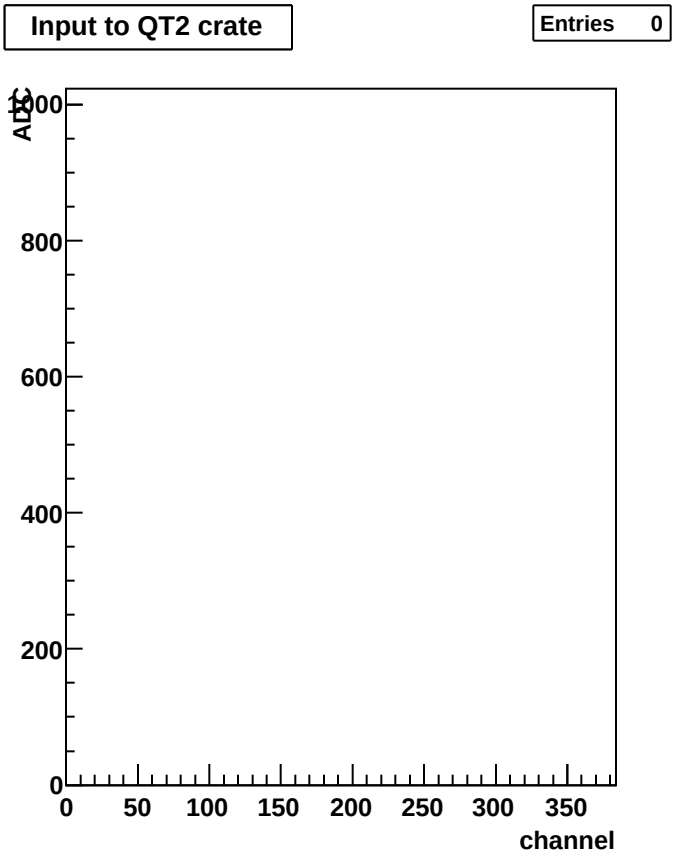
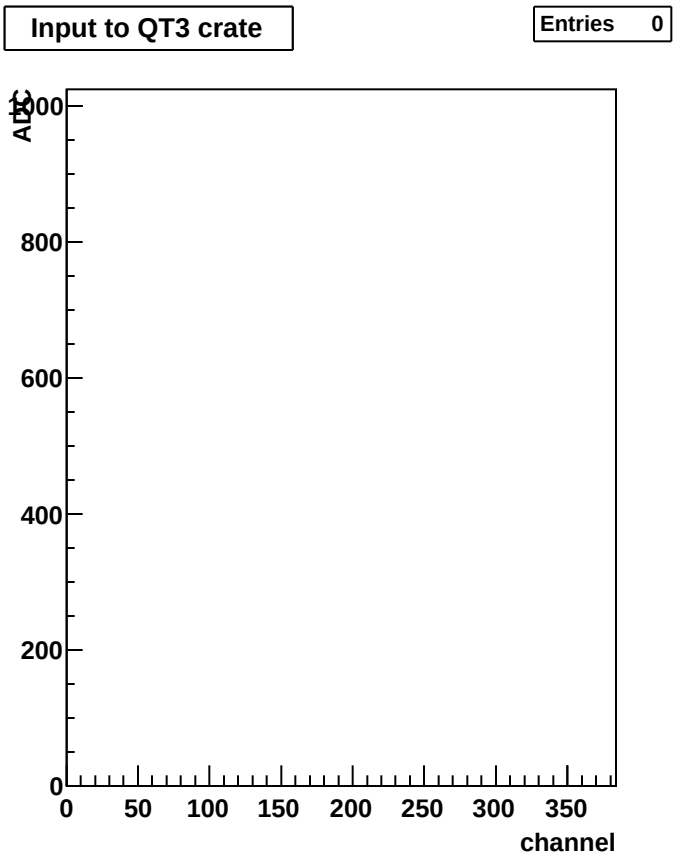
BBC-S-East ADC Sum
BBC-S-West ADC Sum

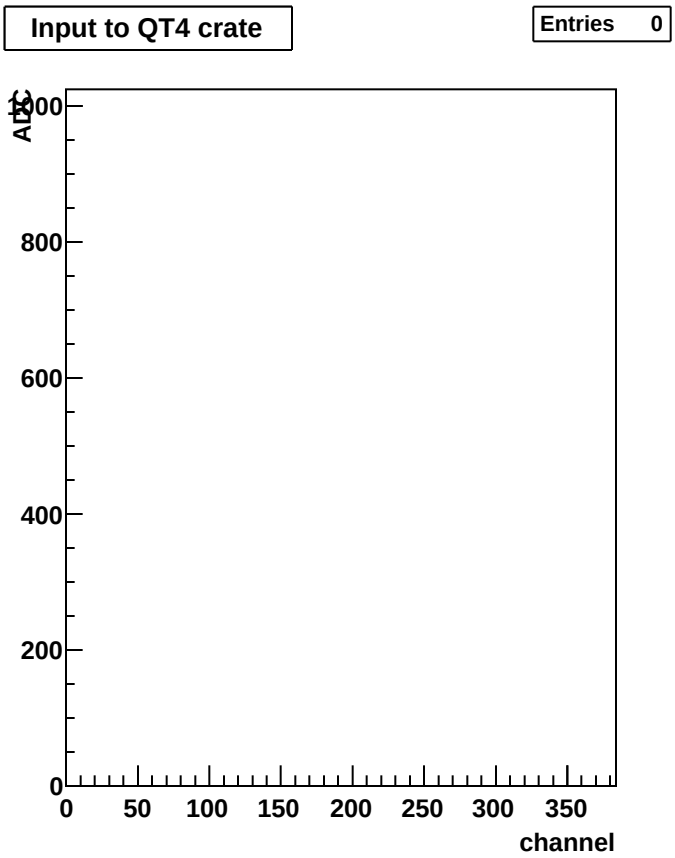

Entries 219513
ZDC East ADC Sum Att
ZDC West ADC Sum Att

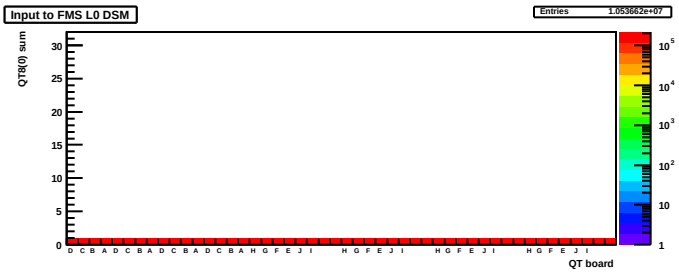

Entries 219513
BBC-L TAC Diff
BCC-S TAC Diff
Entries 219513
BBC-L TAC Diff
VPD TAC Diff
Entries 219513
BBC-L TAC Diff
ZDC TAC Diff
Entries 219513
BBC-S TAC Diff
VPD TAC Diff
Entries 219513
BBC-S TAC Diff
ZDC TAC Diff
Entries 219513
VPD TAC Diff
ZDC TAC Diff

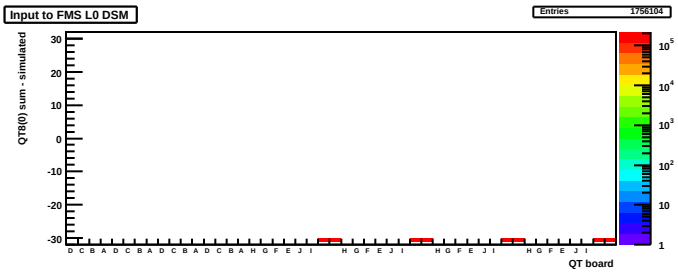

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

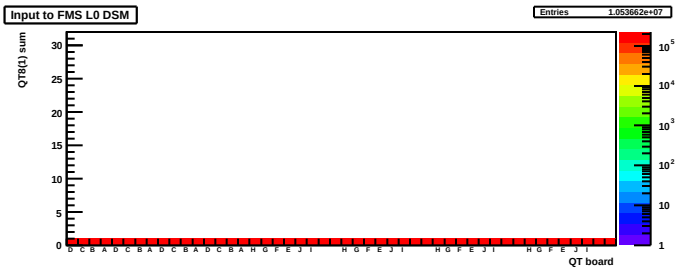

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

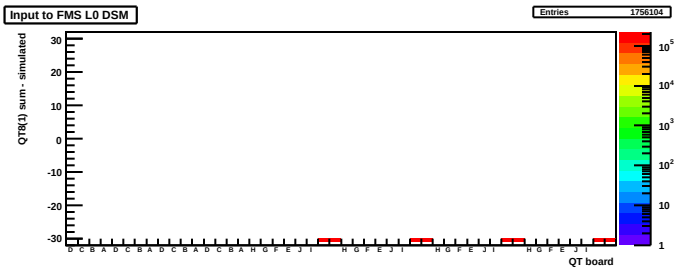

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

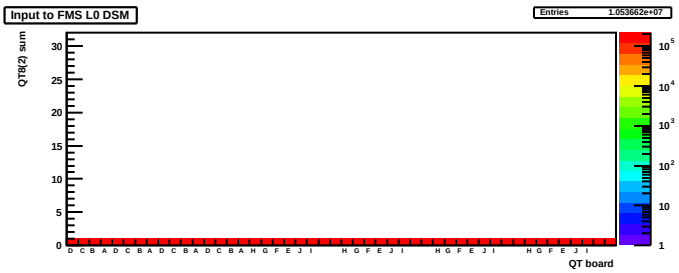

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

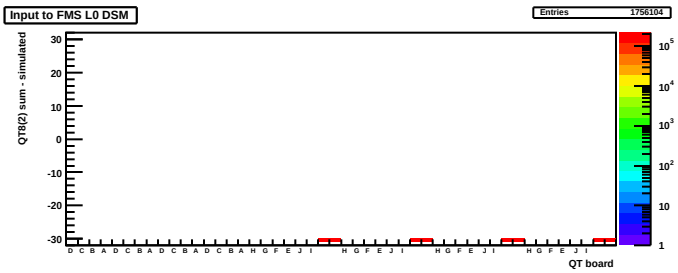

Input to FMS L0 DSM
Entries 1.053662e+07
QT8(0) sum
QT board

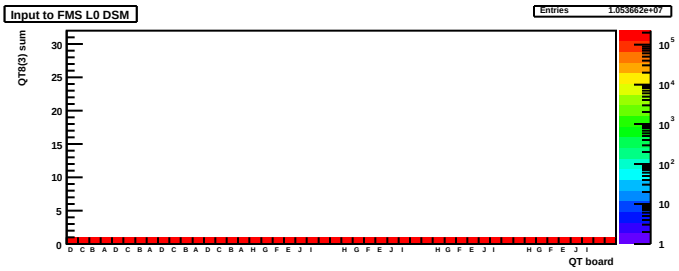

Input to FMS L0 DSM
Entries 1756104
QT8(0) sum - simulated
QT board

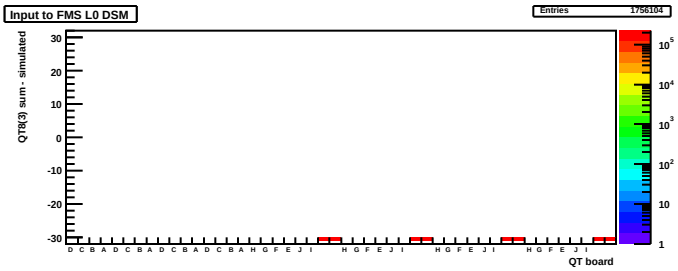

Input to FMS L0 DSM
Entries 1.053662e+07
QT8(1) sum
QT board

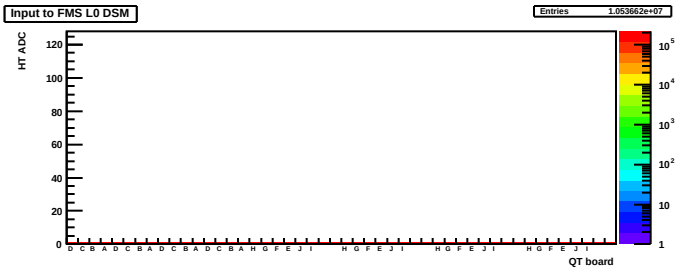

Input to FMS L0 DSM
Entries 1756104
QT8(1) sum - simulated
QT board

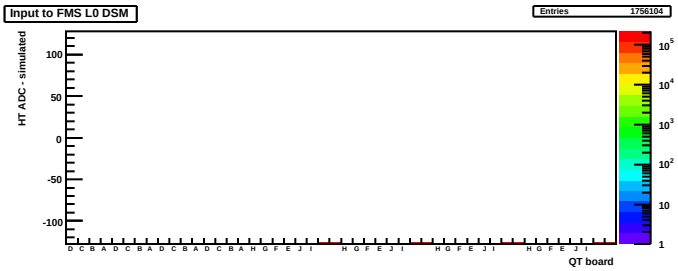

Input to FMS L0 DSM
Entries 1.053662e+07
QT8(2) sum
QT board

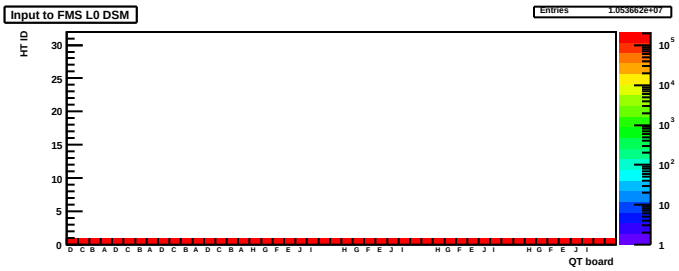

Input to FMS L0 DSM
Entries 1756104
QT8(2) sum - simulated
QT board

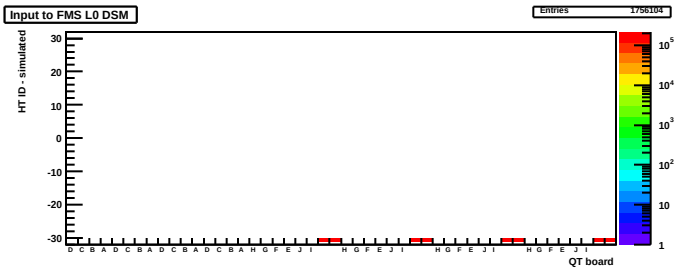

Input to FMS L0 DSM
Entries 1.053662e+07
QT8(3) sum
QT board

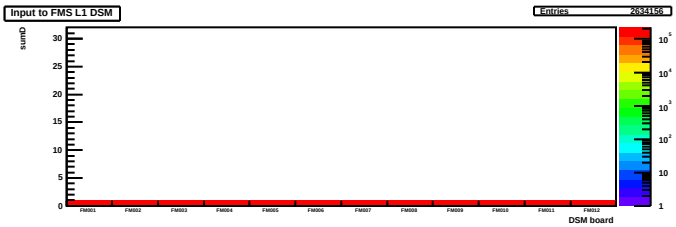

Input to FMS L0 DSM
Entries 1756104
QT8(3) sum - simulated
QT board

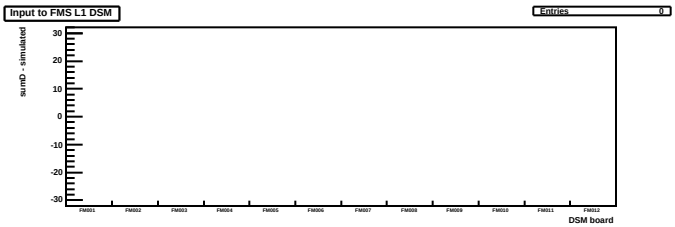

Input to FMS L0 DSM
Entries 1.053662e+07
HT ADC
QT board

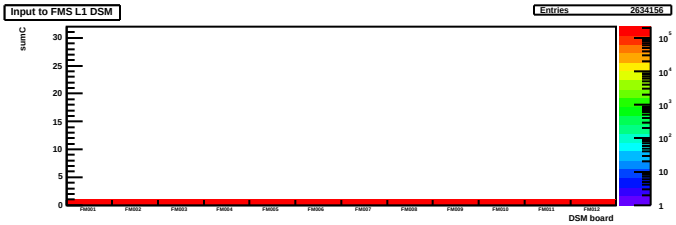

Input to FMS L0 DSM
Entries 1756104
HT ADC - simulated
QT board

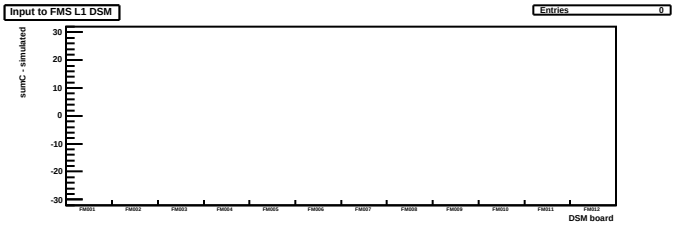

Input to FMS L0 DSM
Entries 1.053662e+07
HT ID
QT board

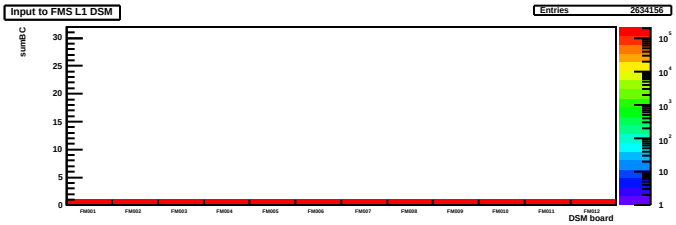

Input to FMS L0 DSM
Entries 1756104
HT ID - simulated
QT board

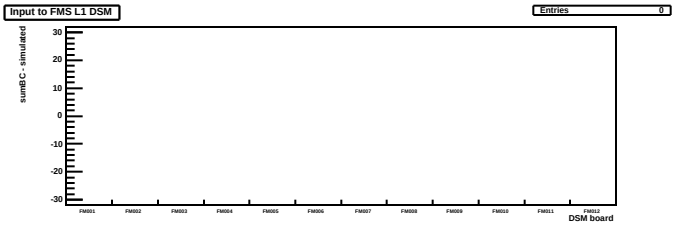

Input to FMS L1 DSM
Entries 2634156
sumD
DSM board

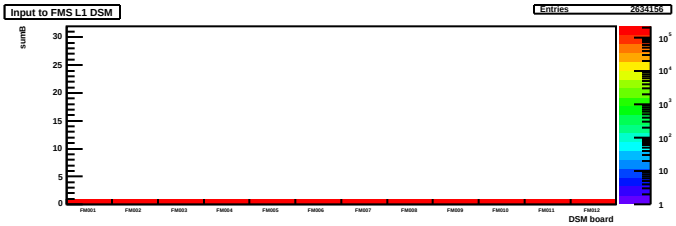

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

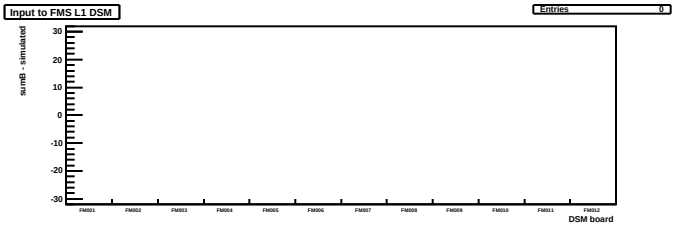

Input to FMS L1 DSM
Entries 2634156
sumC
DSM board

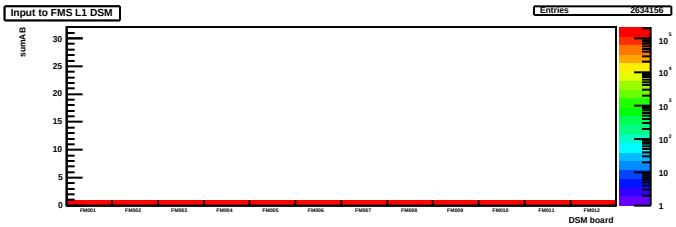

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

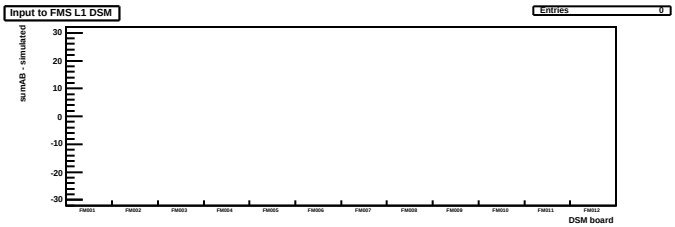

Input to FMS L1 DSM
Entries 2634156
sumBC
DSM board

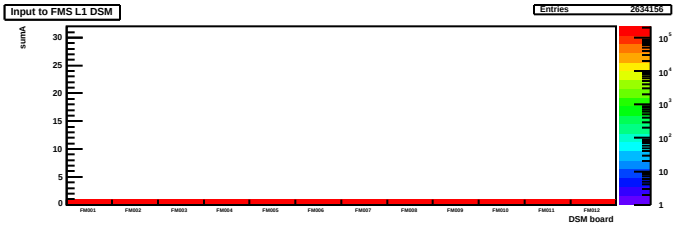

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

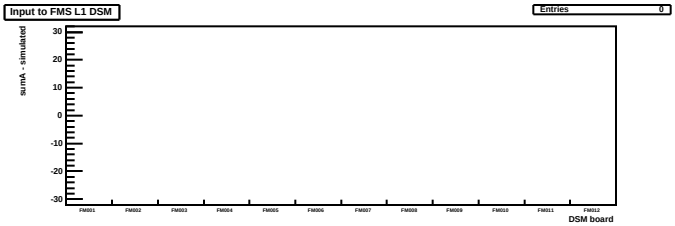

Input to FMS L1 DSM
Entries 2634156
sumB
DSM board

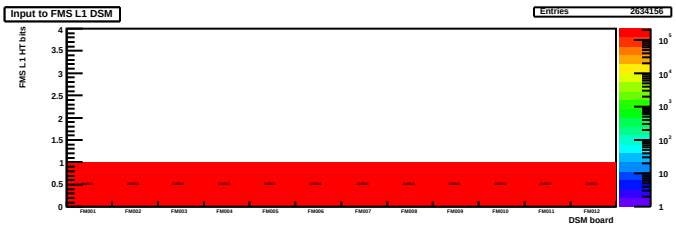

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

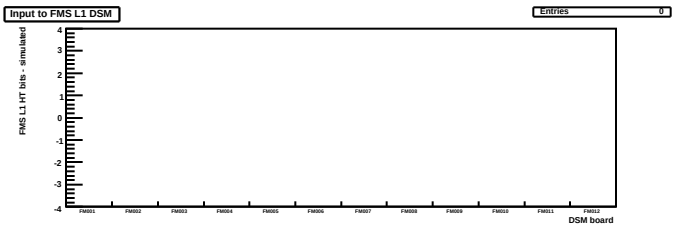

Input to FMS L1 DSM
Entries 2634156
sumAB
DSM board

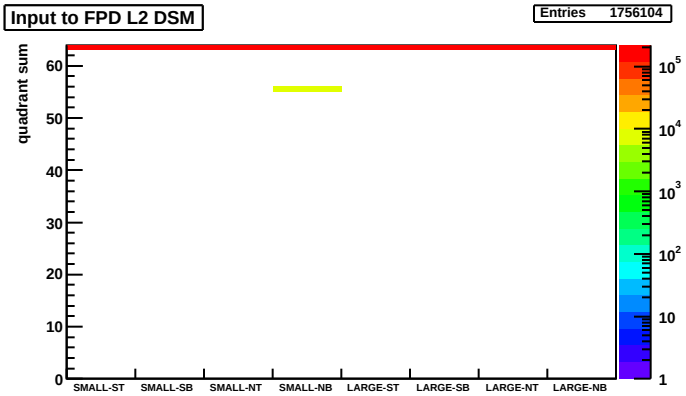

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

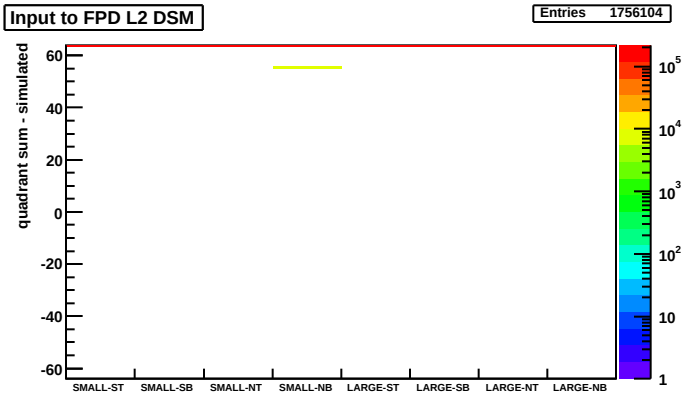

Input to FMS L1 DSM
Entries 2634156
sumA
DSM board

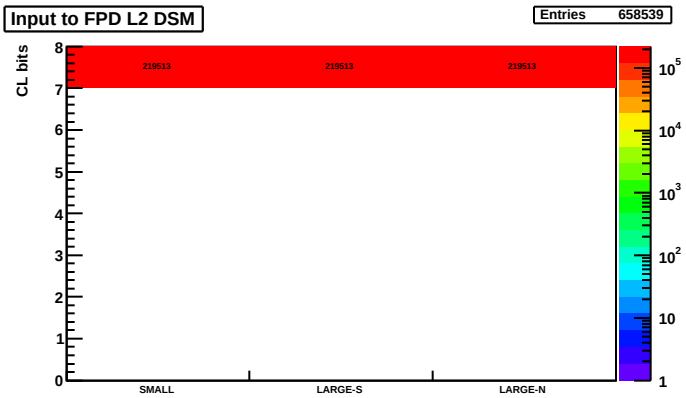

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

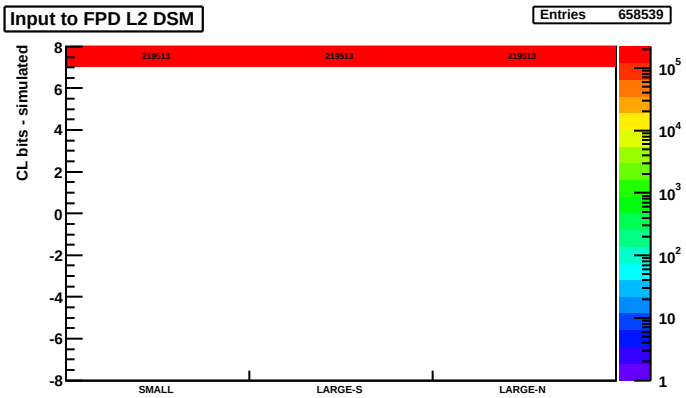

Input to FMS L1 DSM
Entries 2634156
FMS L1 HT bits
DSM board

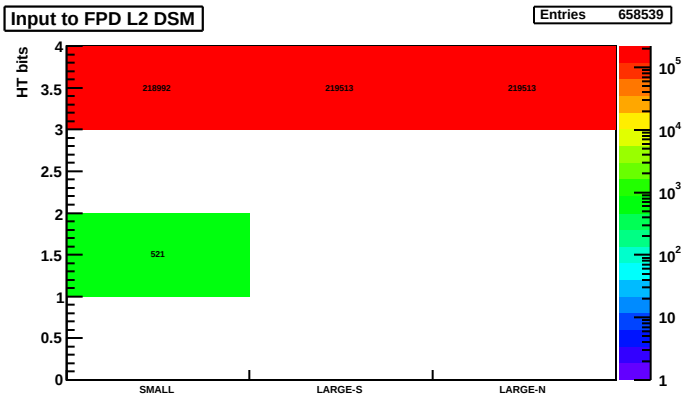

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

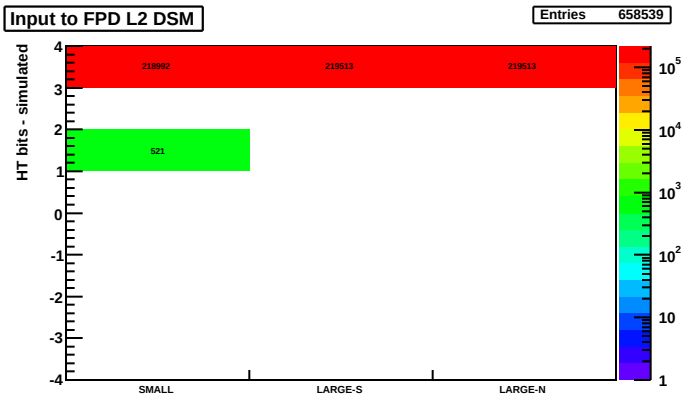

Input to FPD L2 DSM
Entries 1756104
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

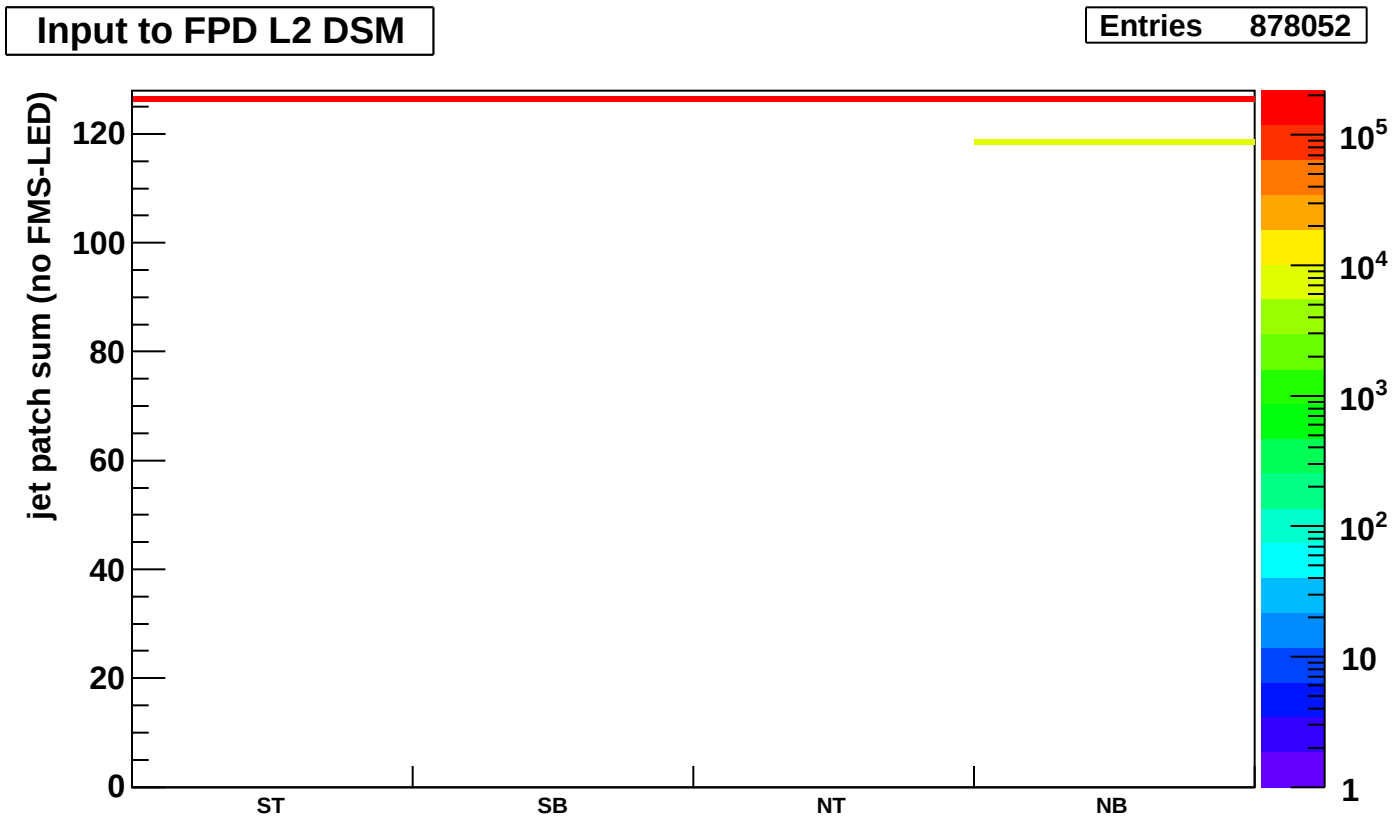

Input to FPD L2 DSM
Entries 1756104
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

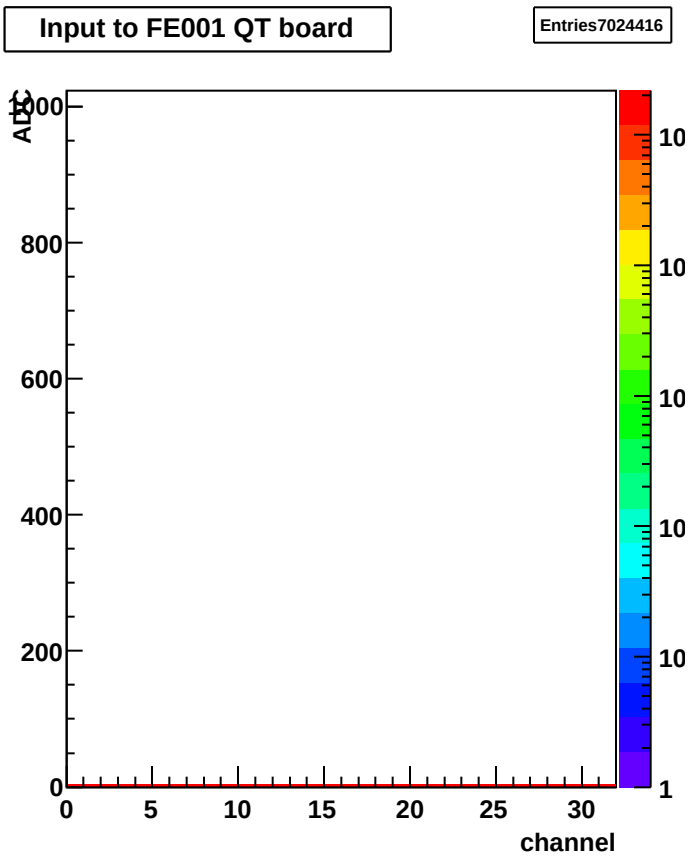

Input to FPD L2 DSM
Entries 658539
CL bits
219513
219513
219513
SMALL
LARGE-S
LARGE-N

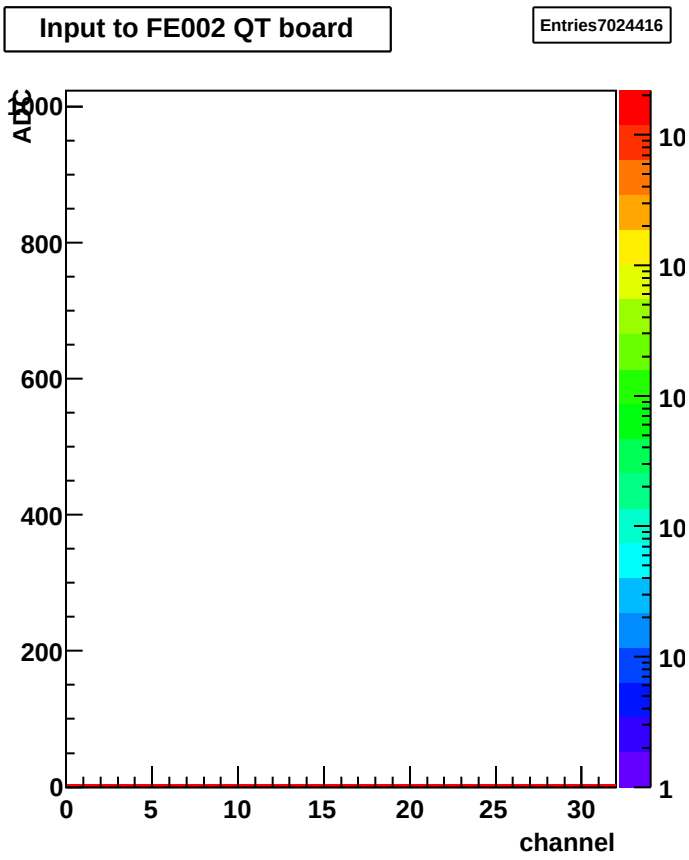

Input to FPD L2 DSM
Entries 658539
CL bits - simulated
219513
219513
219513
SMALL
LARGE-S
LARGE-N

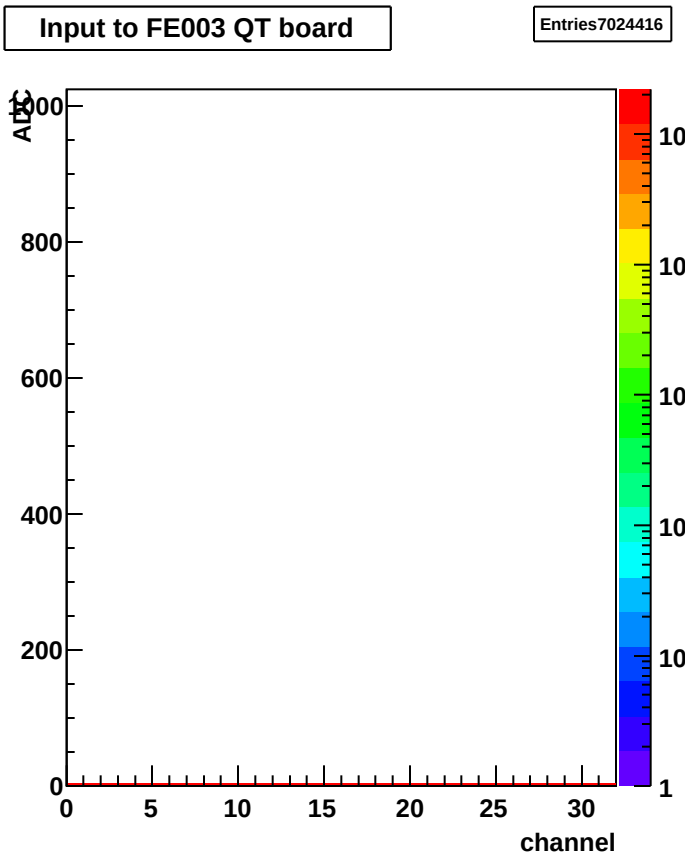

Input to FPD L2 DSM
Entries 658539
HT bits
218992
219513
219513
521
SMALL
LARGE-S
LARGE-N

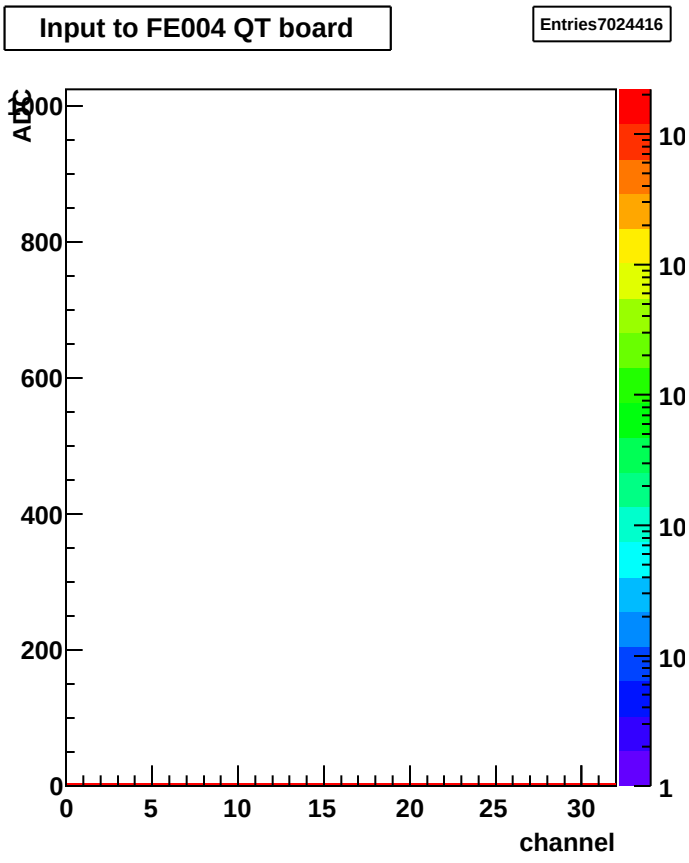

Input to FPD L2 DSM
Entries 658539
HT bits - simulated
218992
219513
219513
521
SMALL
LARGE-S
LARGE-N

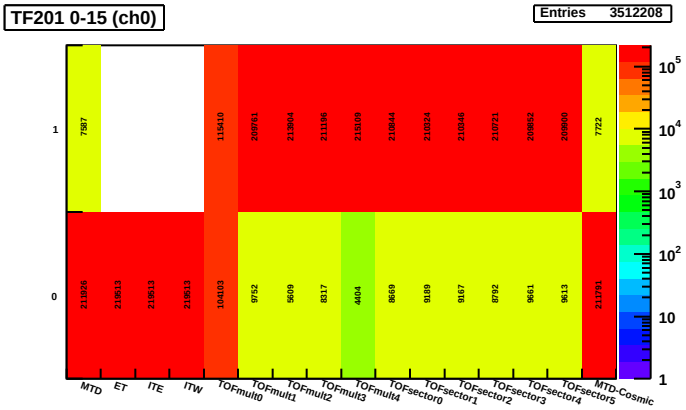

Input to FPD L2 DSM
Entries 878052
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

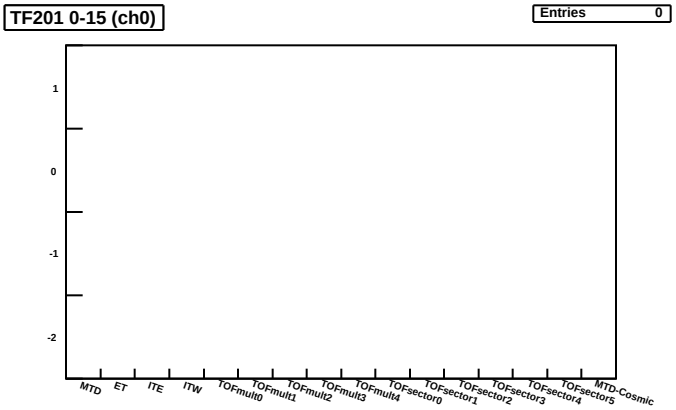

Input to FE001 QT board
Entries7024416
ADC
channel

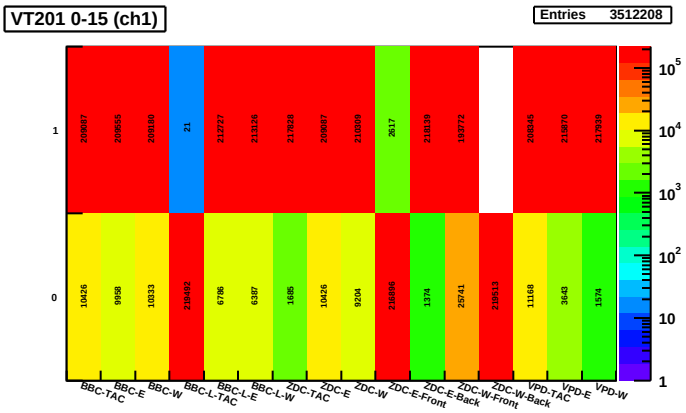

Input to FE002 QT board
Entries7024416
ADC
channel

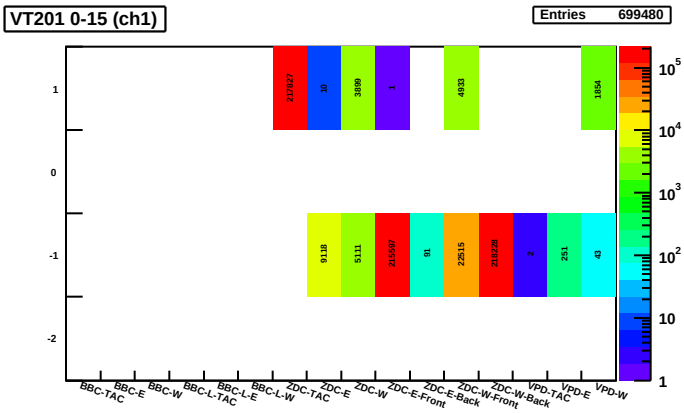

Input to FE003 QT board
Entries7024416
ADC
channel

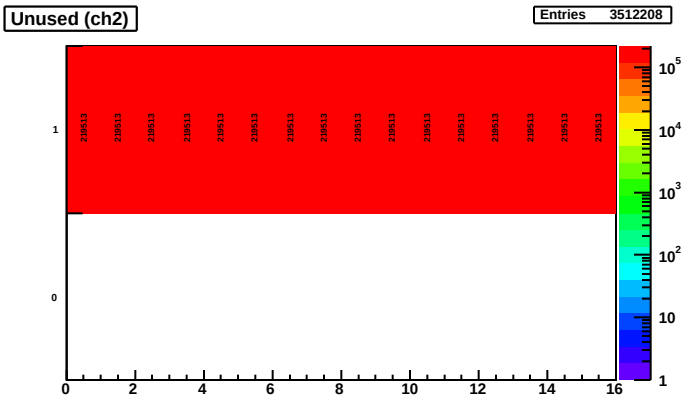

Input to FE004 QT board
Entries7024416
ADC
channel

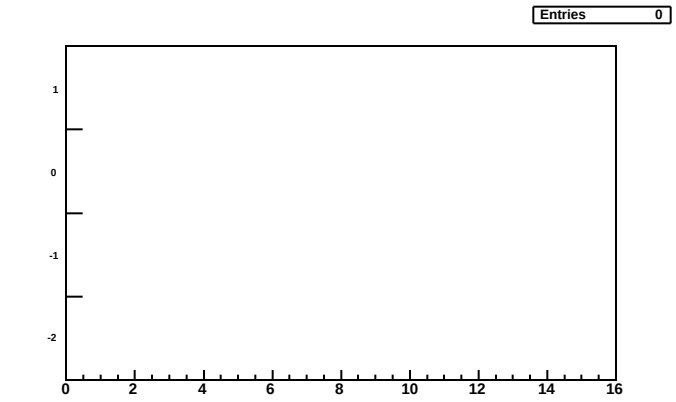

TF201 0-15 (ch0)
Entries 3512208
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

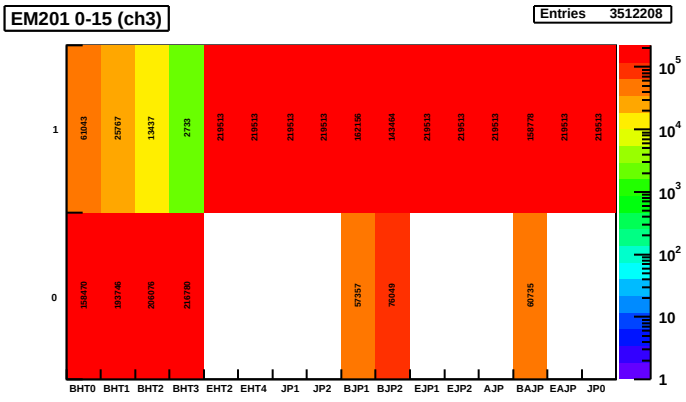

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

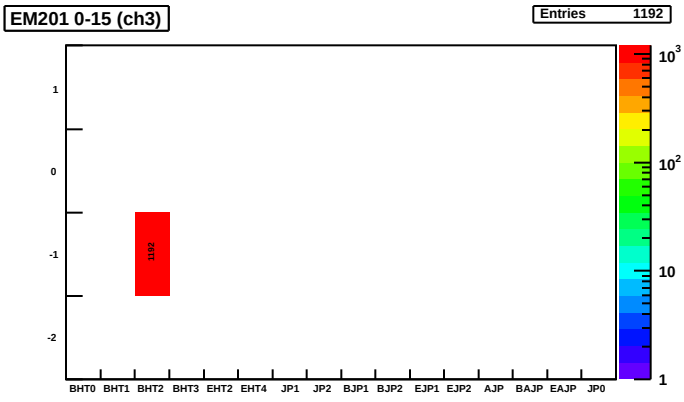

VT201 0-15 (ch1)
Entries 3512208
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 699480
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

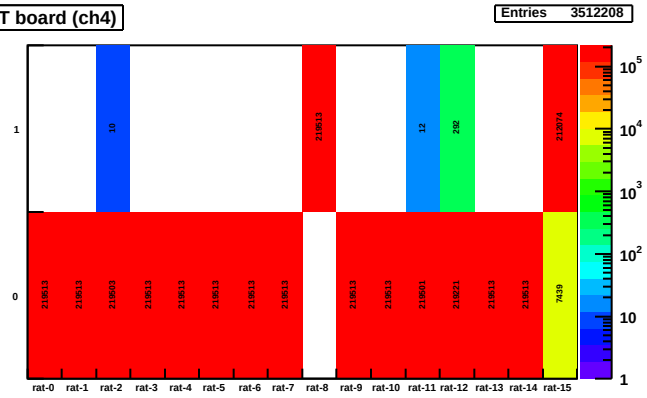

Unused (ch2)
Entries 3512208

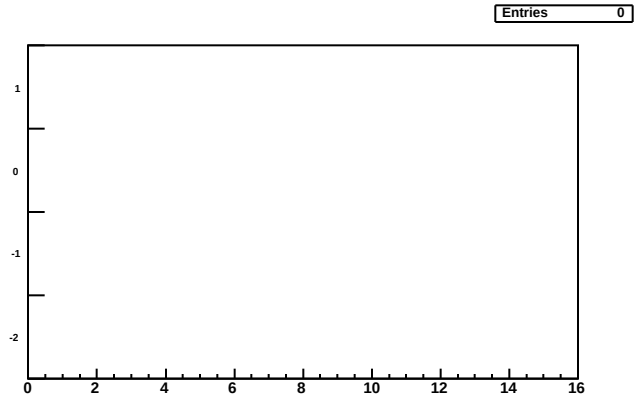

Entries 0


EM201 0-15 (ch3)
Entries 3512208
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

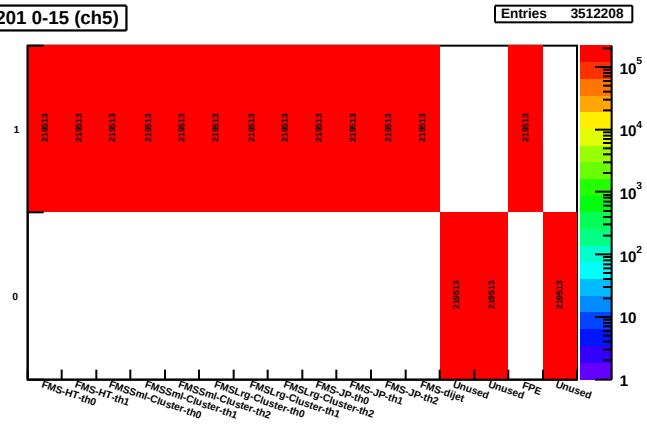

EM201 0-15 (ch3)
Entries 1192
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

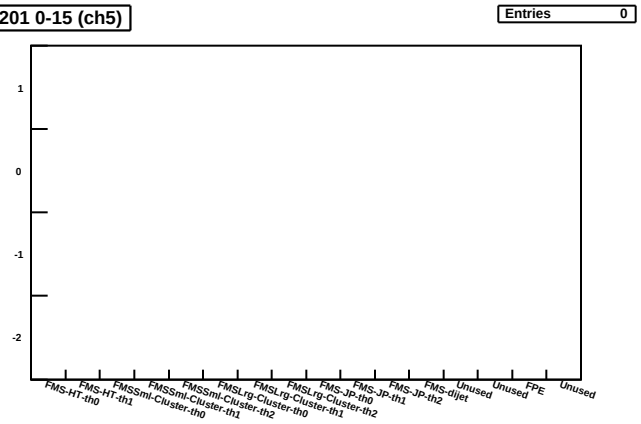




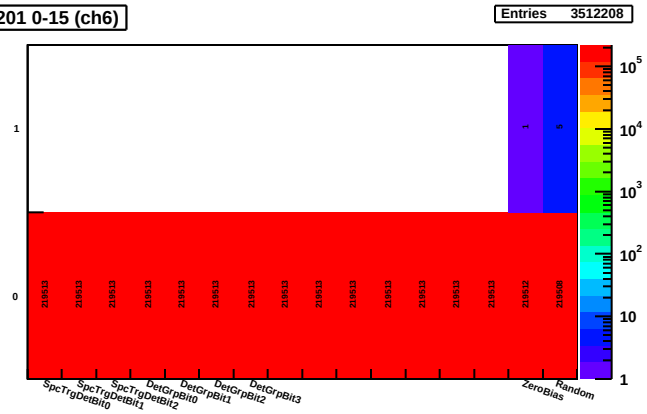
FP201 0-15 (ch5)

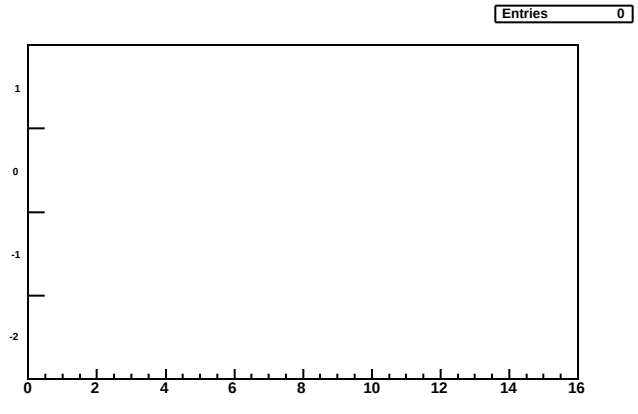
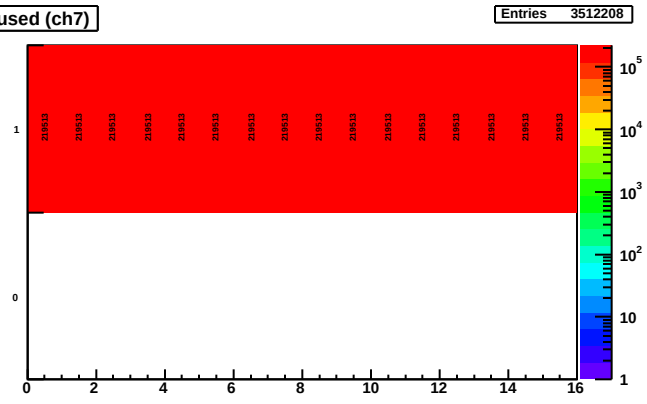
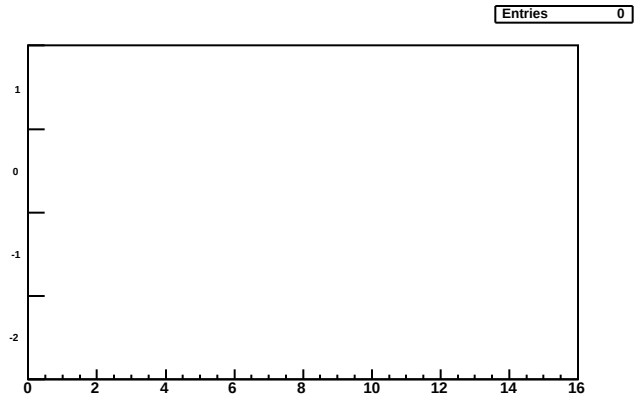


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)