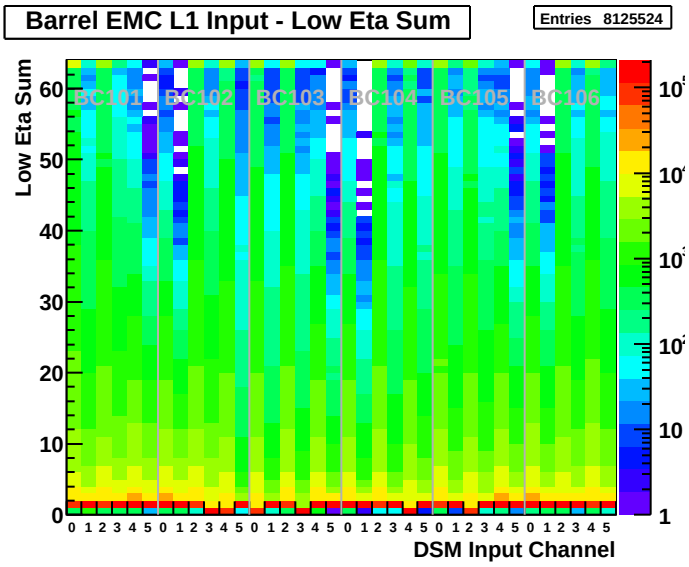
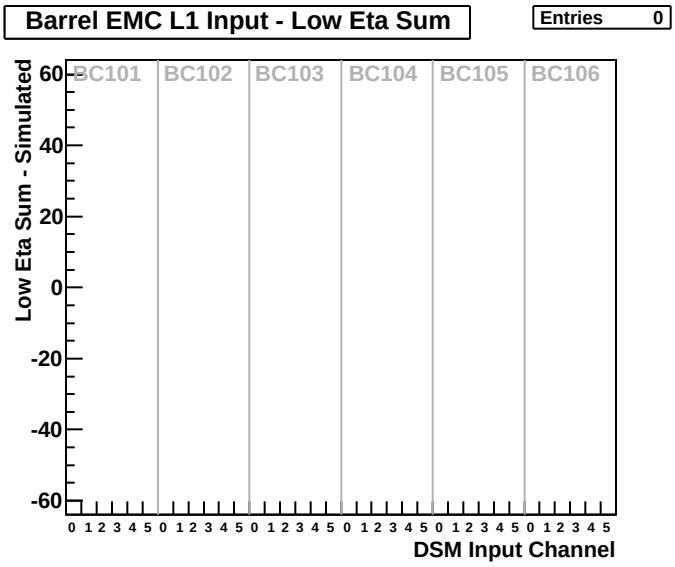
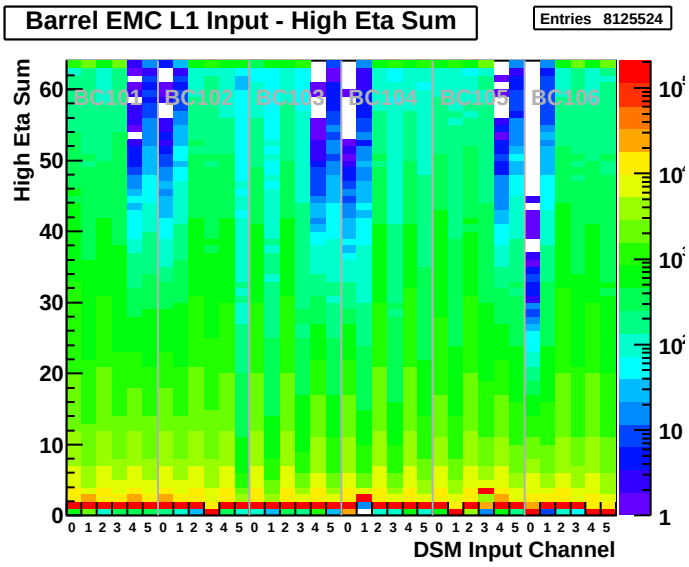
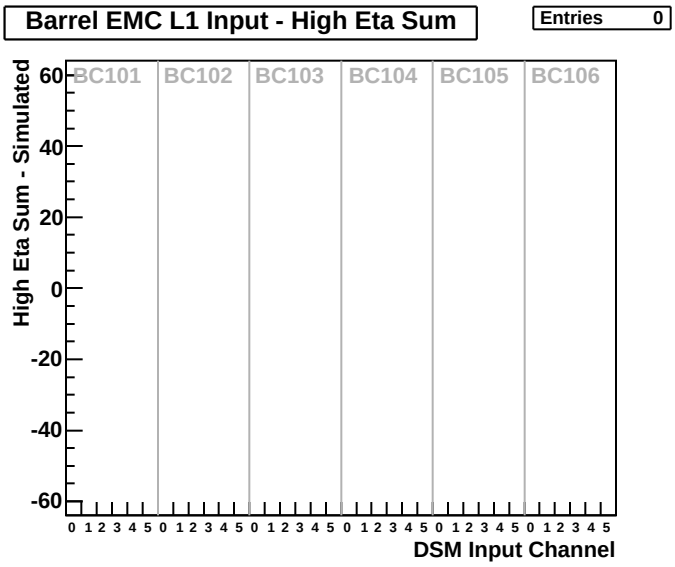
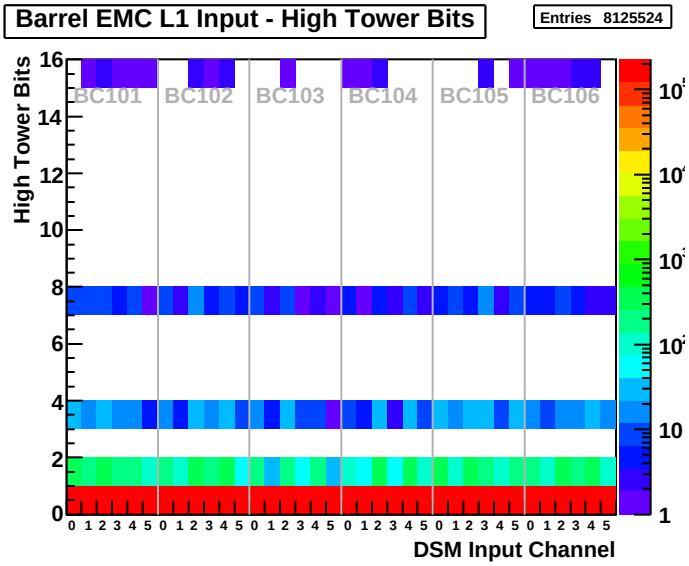
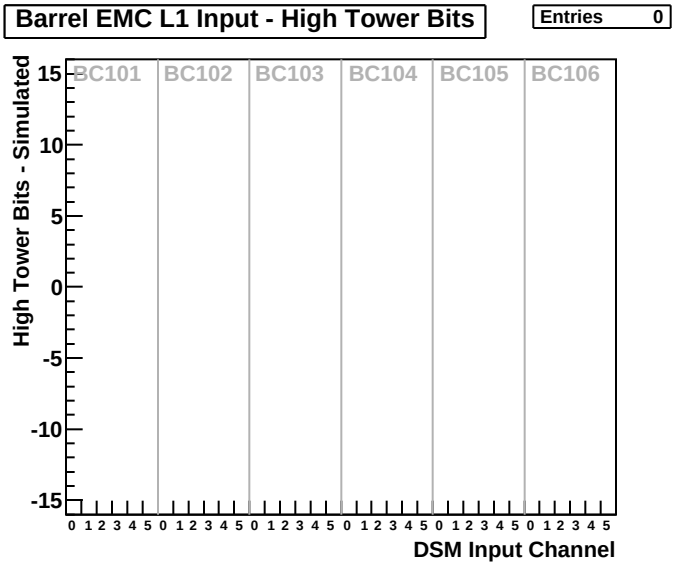

Barrel EMC L1 Input - Low Eta Sum
Entries 8125524
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

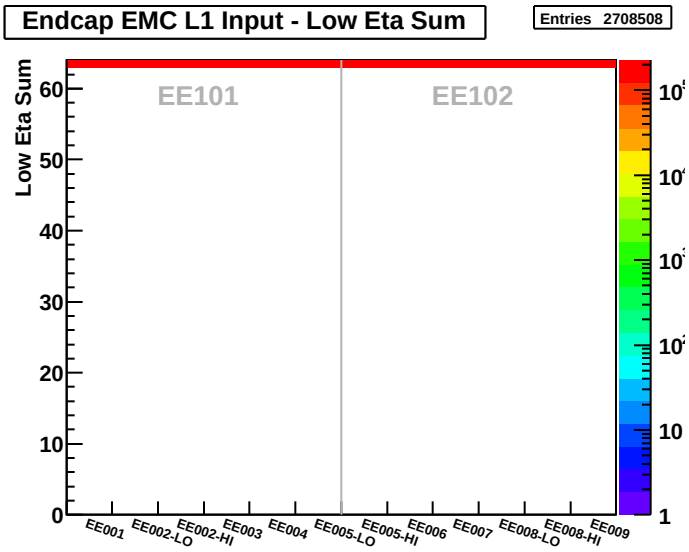

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

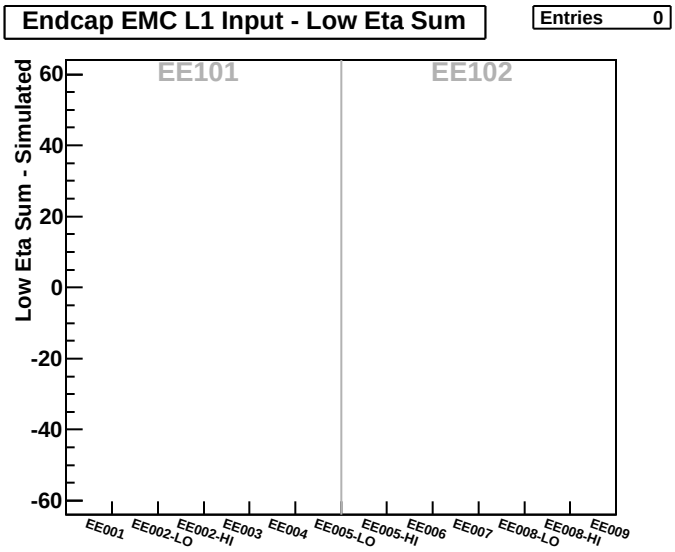

Barrel EMC L1 Input - High Eta Sum
Entries 8125524
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

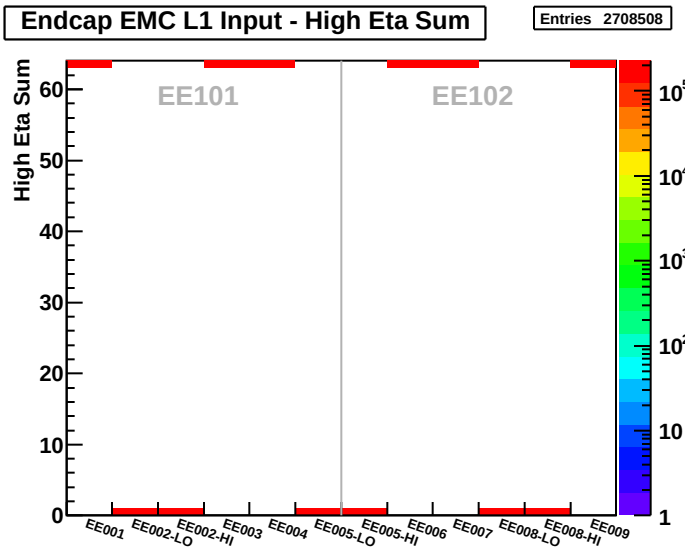

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

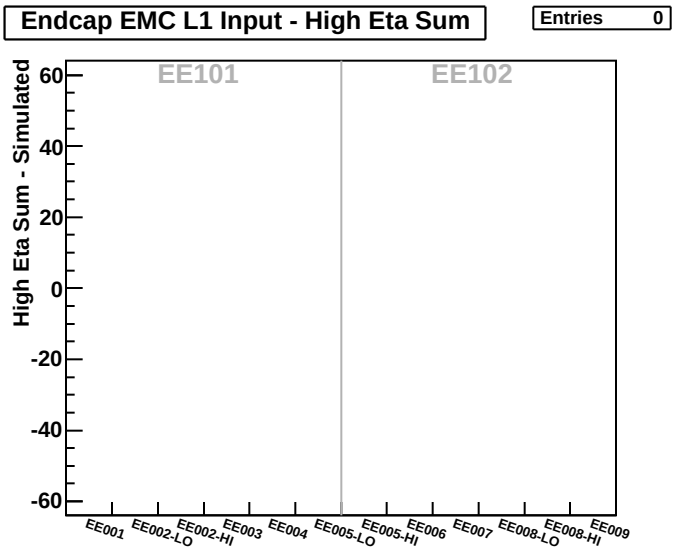

Barrel EMC L1 Input - High Tower Bits
Entries 8125524
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

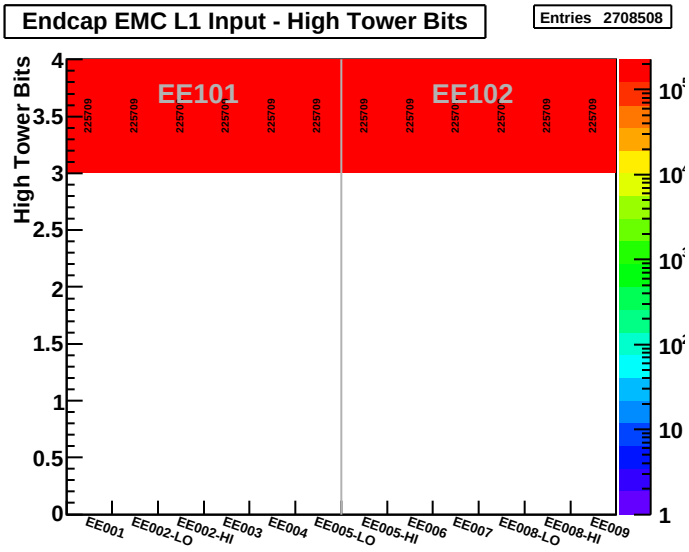

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

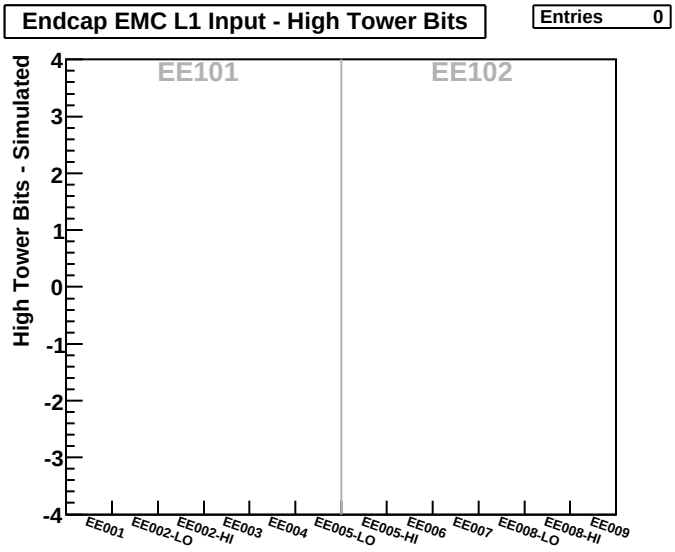

Endcap EMC L1 Input - Low Eta Sum
Entries 2708508
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

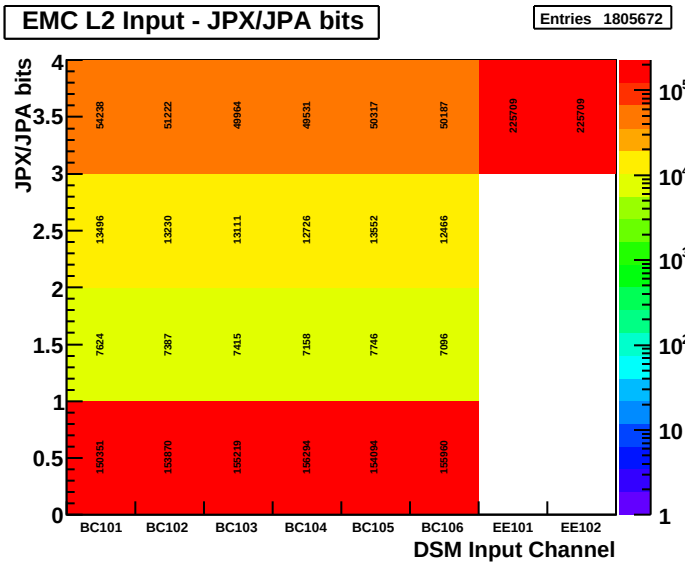

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

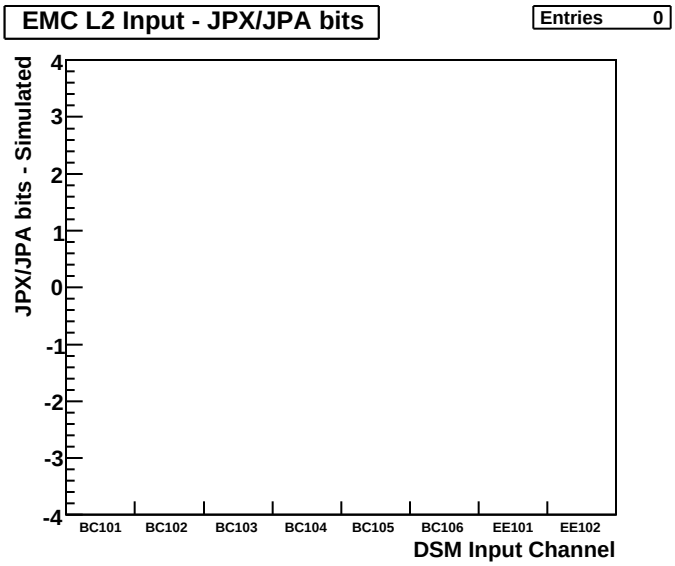

Endcap EMC L1 Input - High Eta Sum
Entries 2708508
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

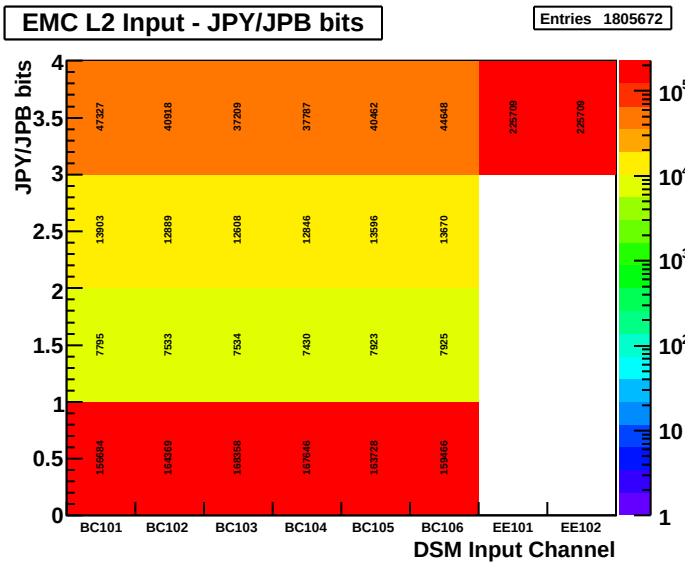

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

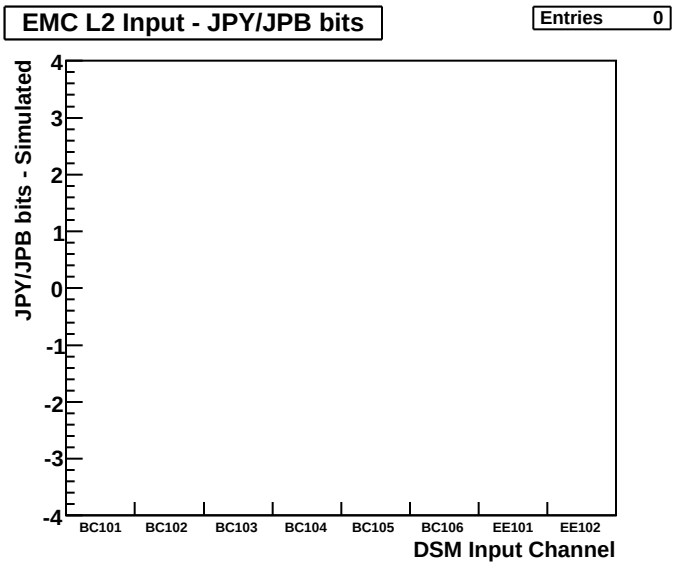

Endcap EMC L1 Input - High Tower Bits
Entries 2708508
High Tower Bits
EE101
EE102
225709
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

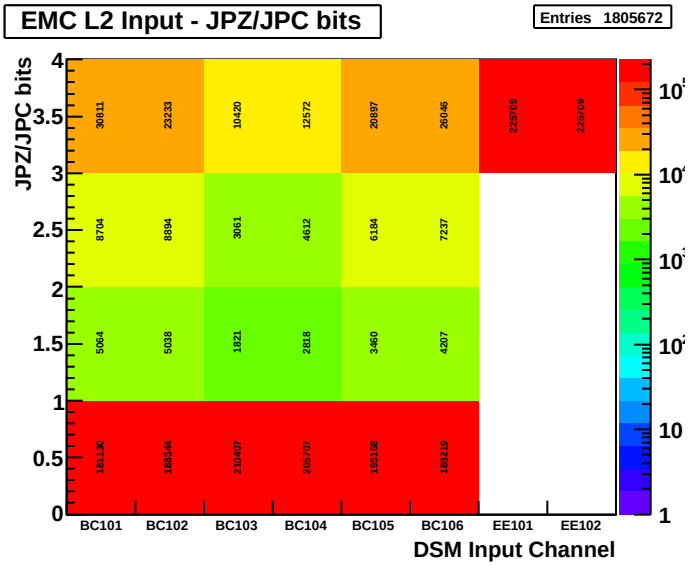

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

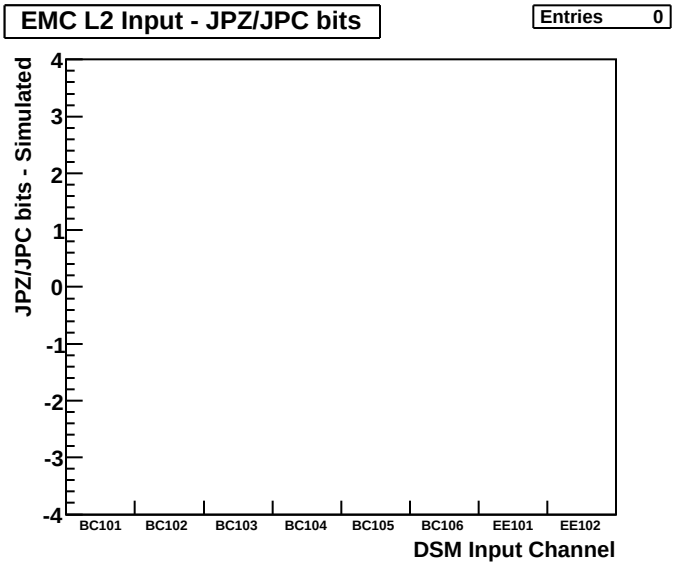

EMC L2 Input - JPX/JPA bits
Entries 1805672
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
54238 51222 49964 49531 50317 50187 225709 225709
13496 13230 13111 12726 13552 12466
7624 7387 7415 7158 7746 7096
150351 153870 155219 156294 154094 155960

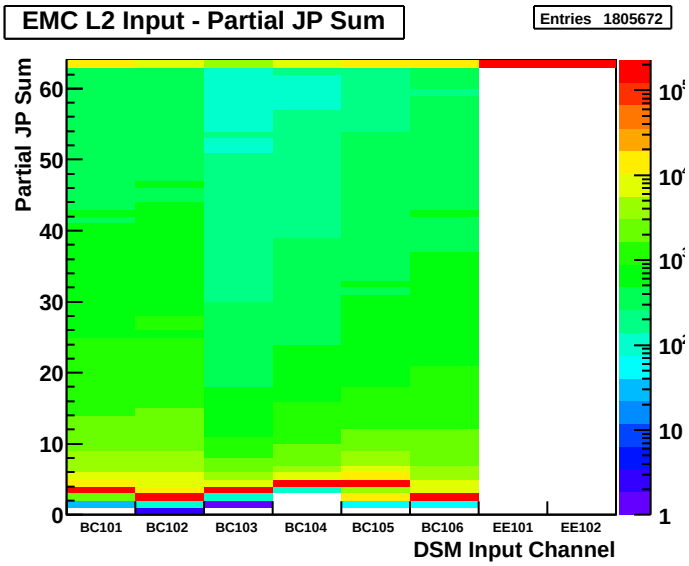

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

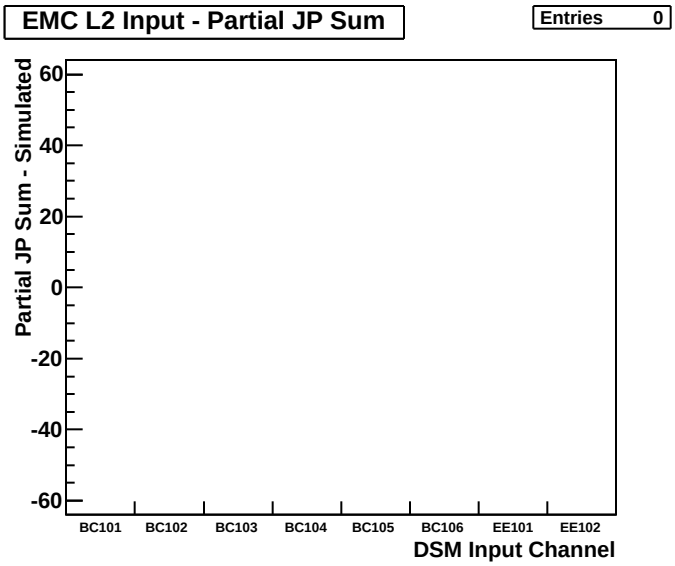

EMC L2 Input - JPY/JPB bits
Entries 1805672
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
47327 40918 37209 37787 40462 44648 225709 225709
13903 12889 12608 12846 13596 13670
7795 7533 7534 7430 7923 7925
156684 164369 168358 167646 163728 159466

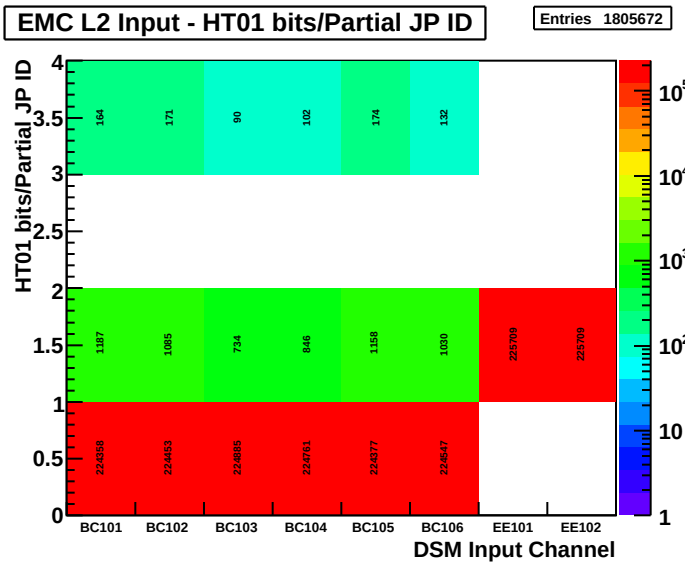

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

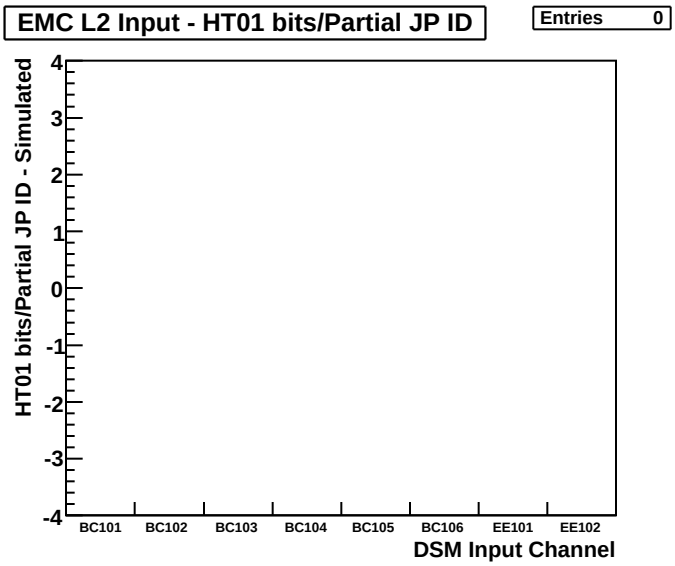

EMC L2 Input - JPZ/JPC bits
Entries 1805672
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
30811 23233 10420 12572 20897 26046 225709 225709
8704 8894 3061 4612 6184 7237
5064 5038 1821 2818 3460 4207
181130 188544 210407 205707 195168 188219

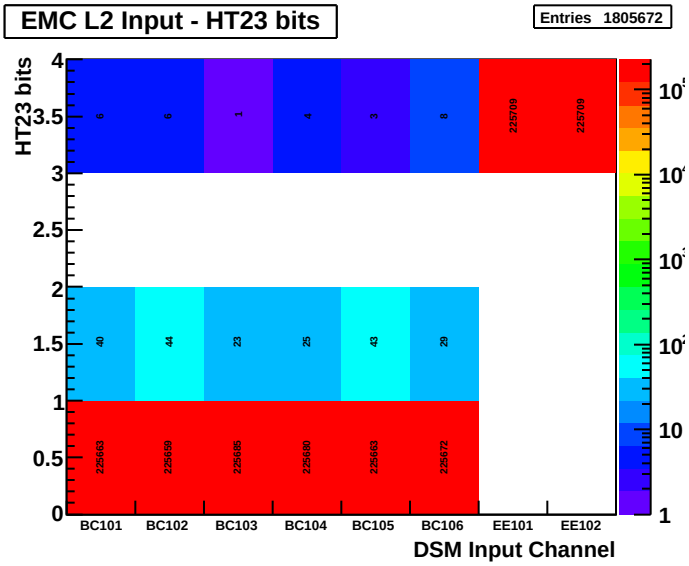

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

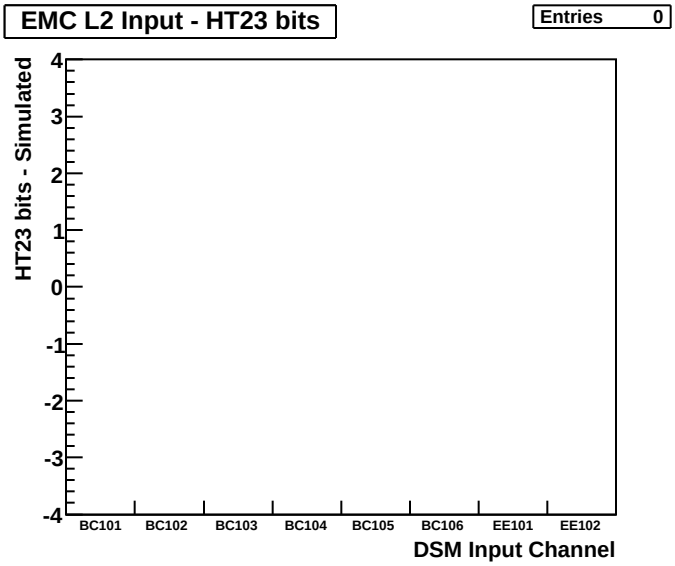

EMC L2 Input - Partial JP Sum
Entries 1805672
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

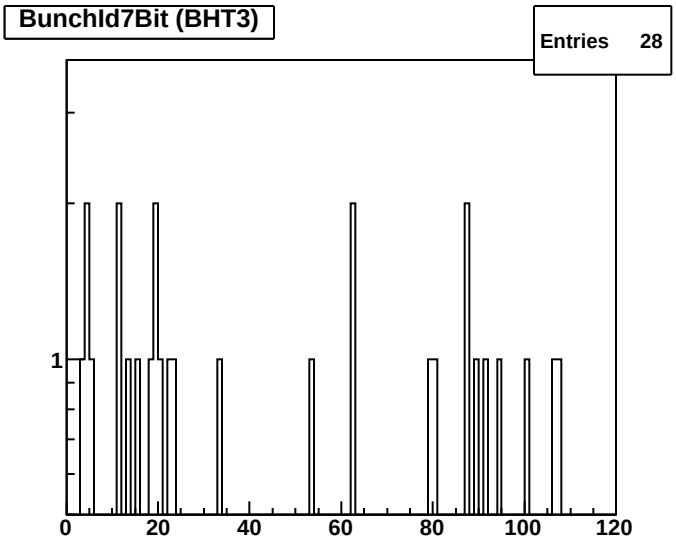

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

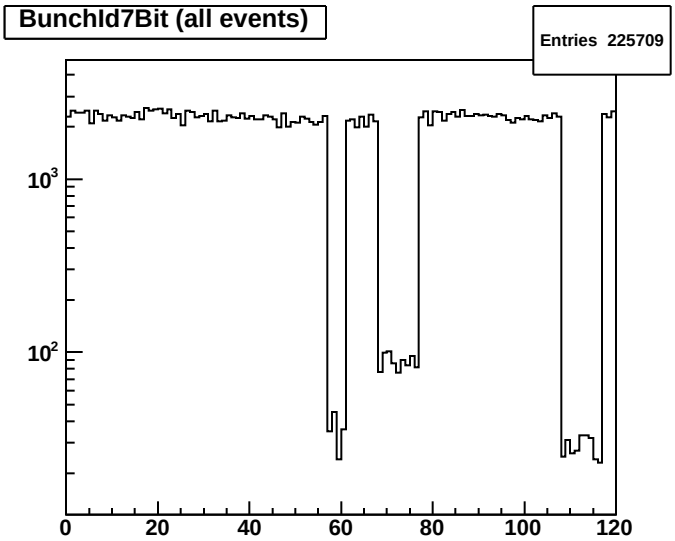

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1805672
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

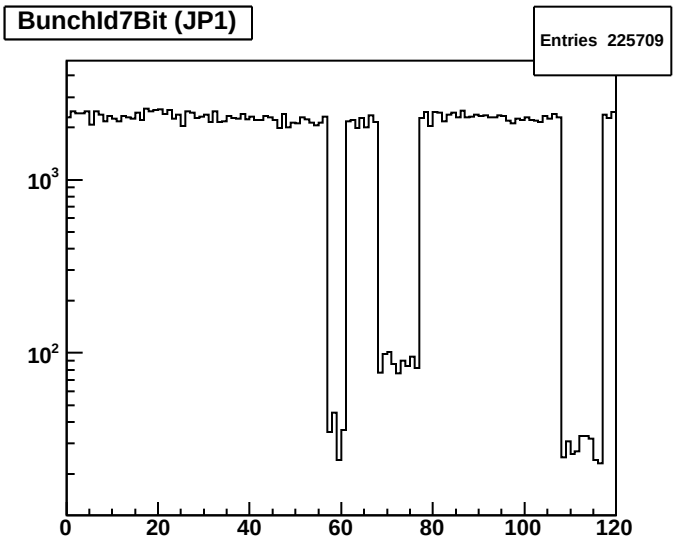

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

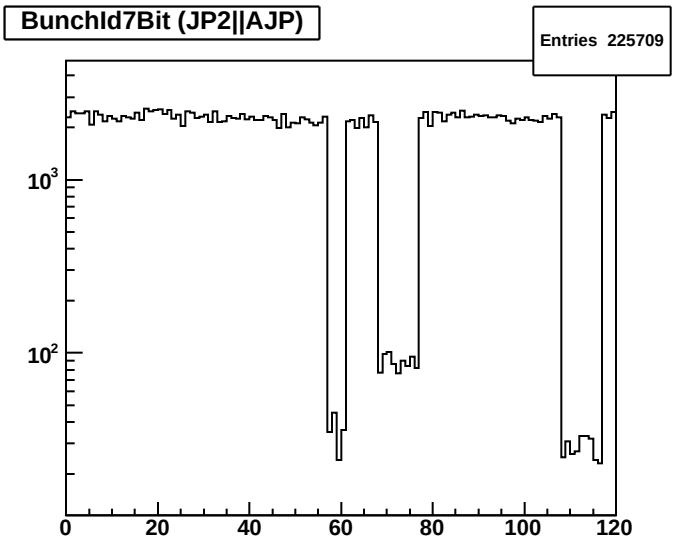

EMC L2 Input - HT23 bits
Entries 1805672
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

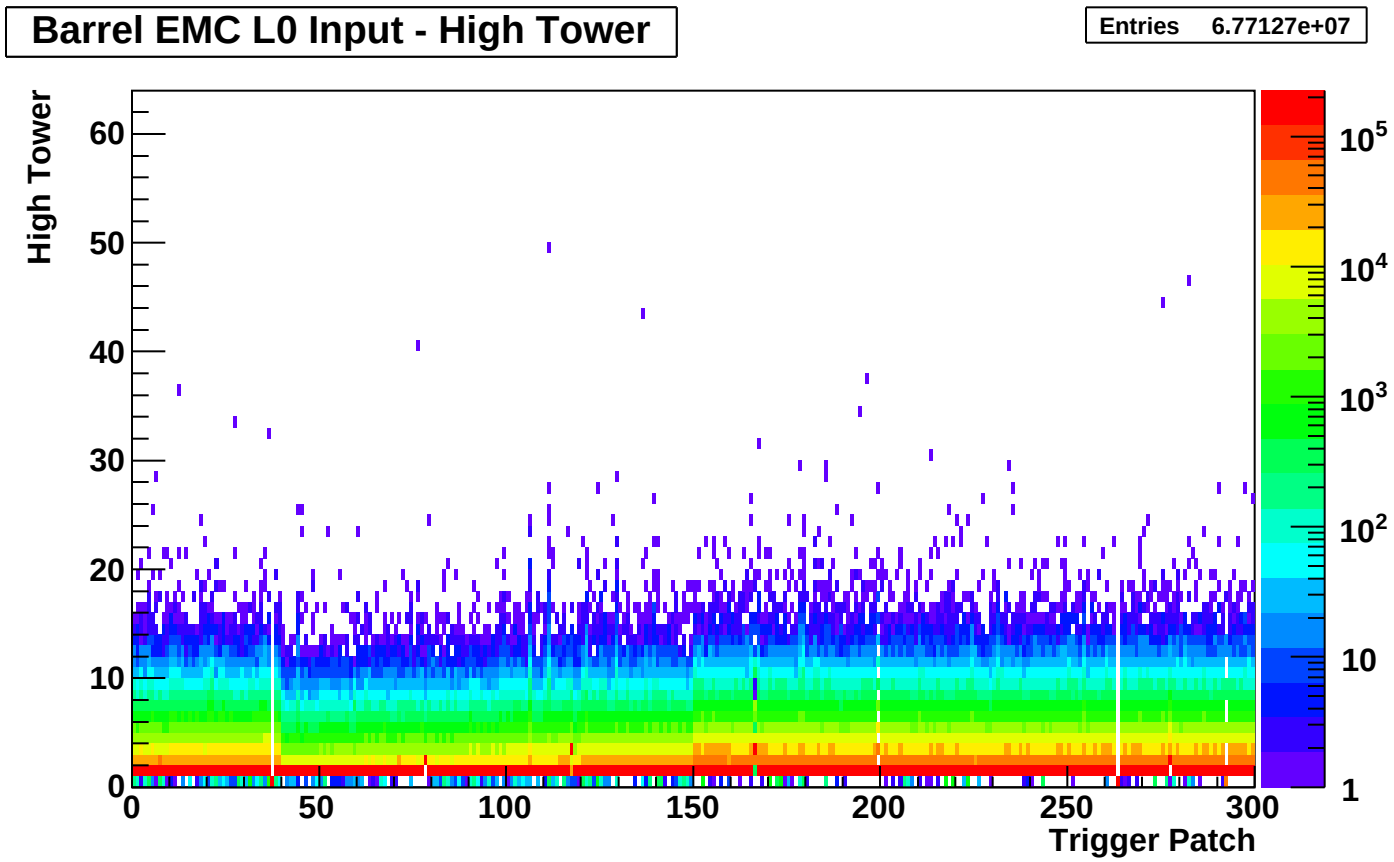

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

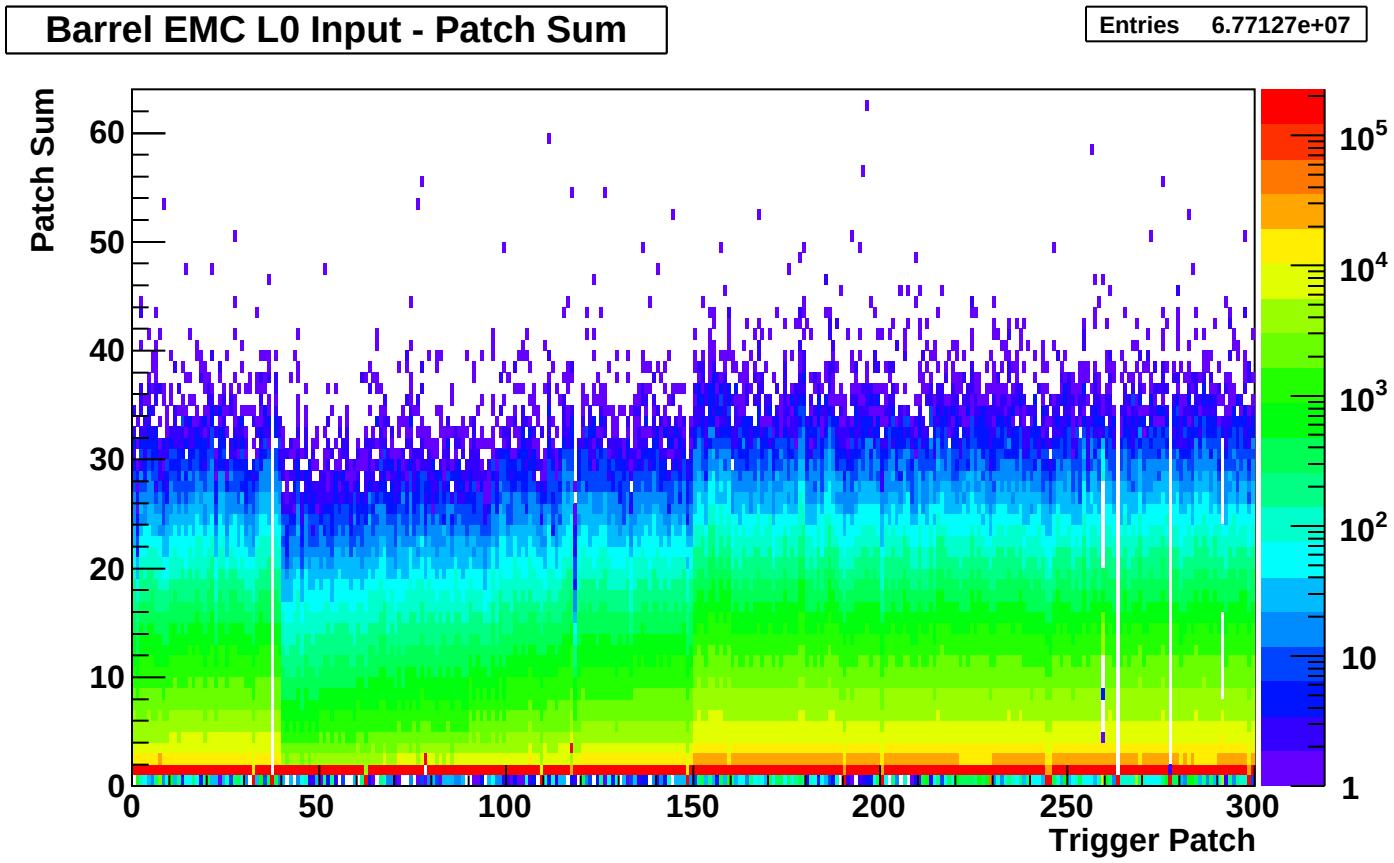

BunchId7Bit (BHT3)
Entries 28
1
0
20
40
60
80
100
120

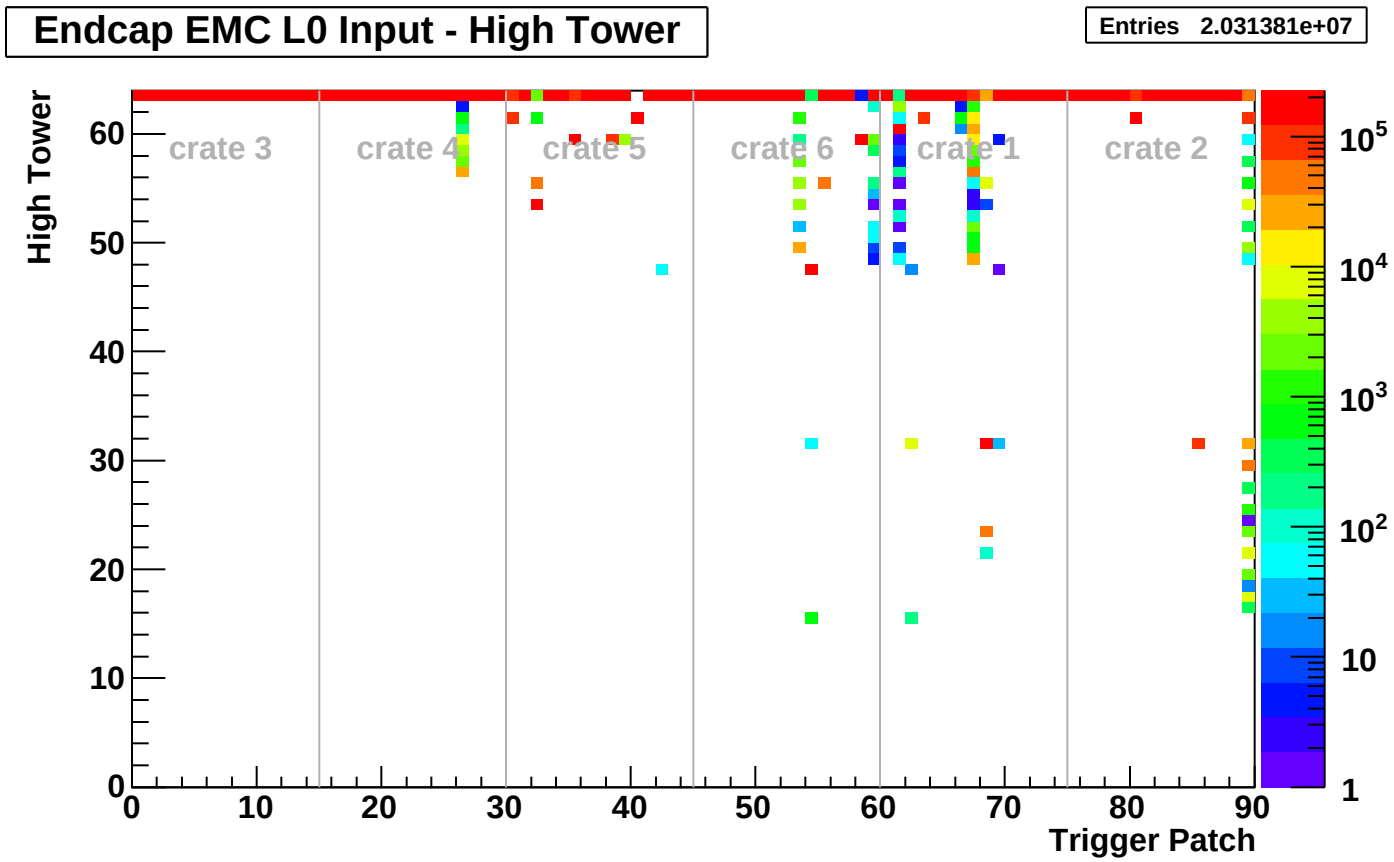

BunchId7Bit (all events)
Entries 225709
10^3
10^2
0
20
40
60
80
100
120

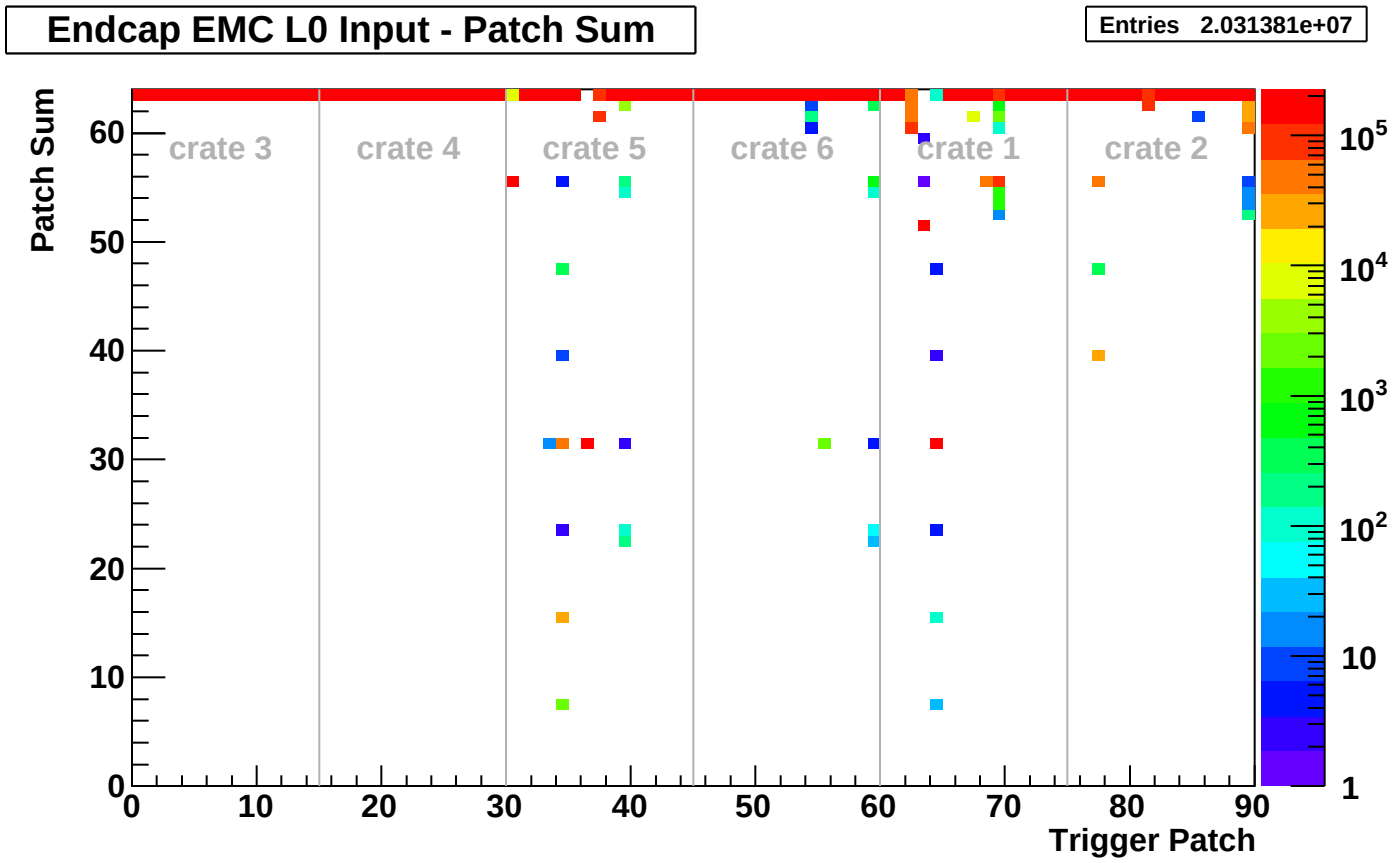

BunchId7Bit (JP1)
Entries 225709
10^3
10^2
0
20
40
60
80
100
120

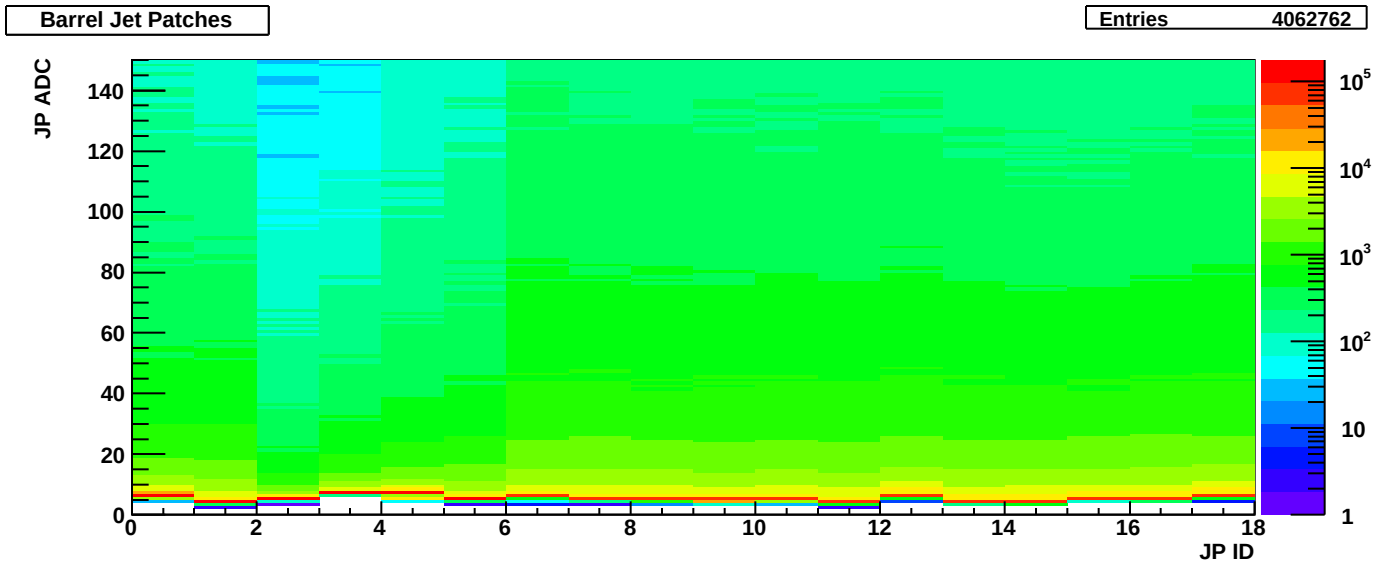

BunchId7Bit (JP2||AJP)
Entries 225709
10^3
10^2
0
20
40
60
80
100
120

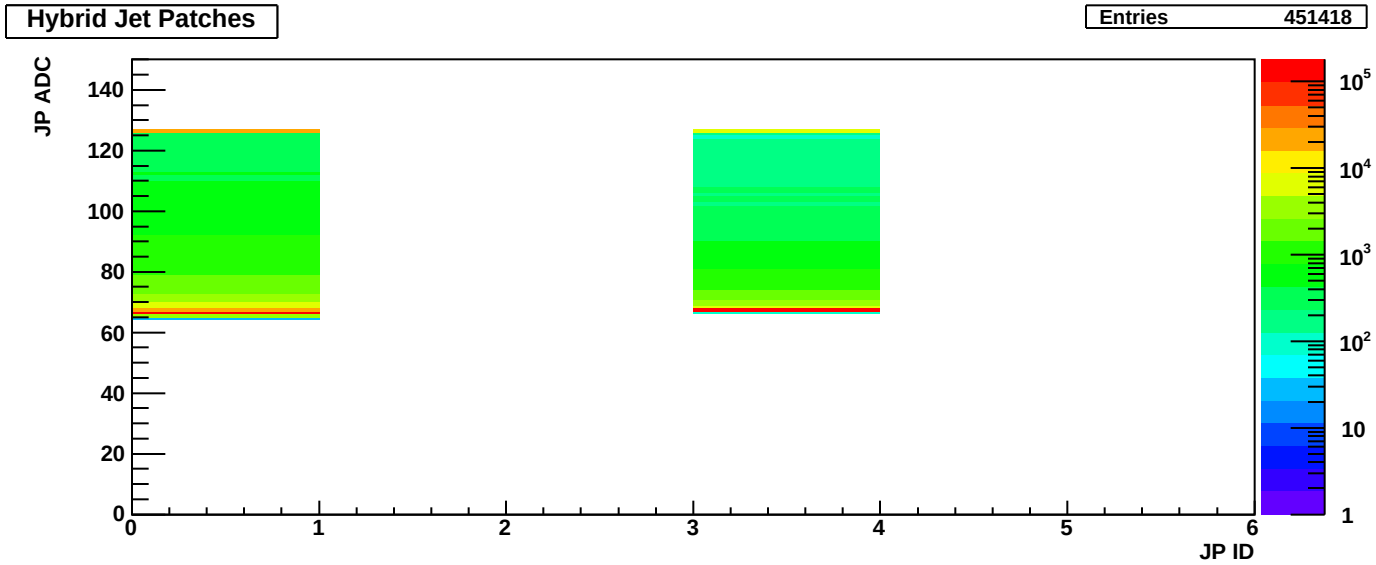

Barrel EMC L0 Input - High Tower
Entries 6.77127e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

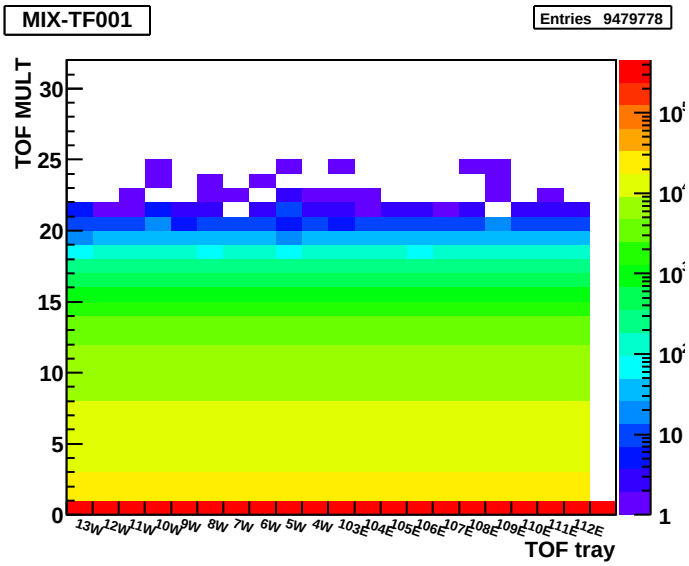

Barrel EMC L0 Input - Patch Sum
Entries 6.77127e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

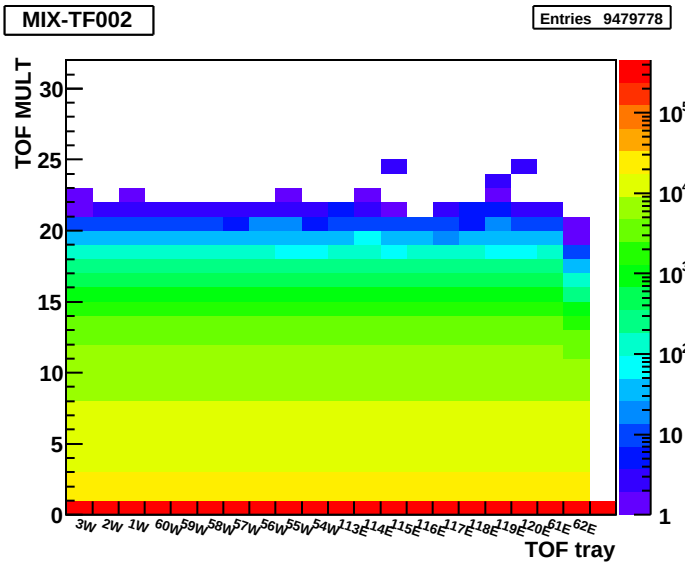

Endcap EMC L0 Input - High Tower
Entries 2.031381e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

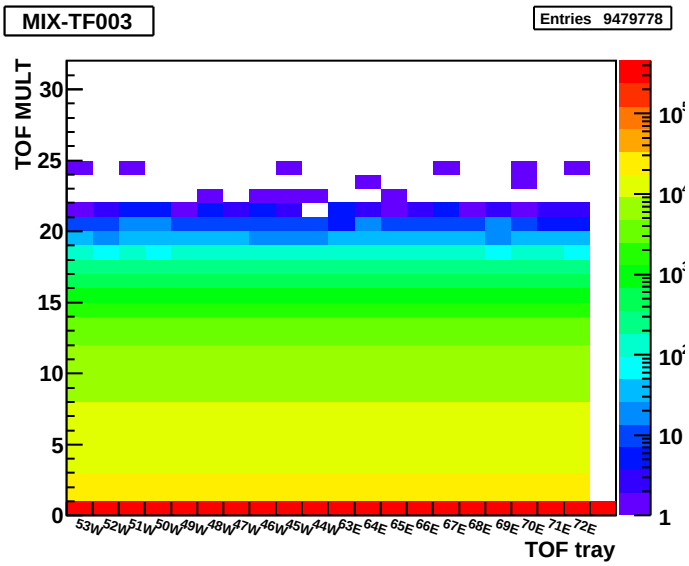

Endcap EMC L0 Input - Patch Sum
Entries 2.031381e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

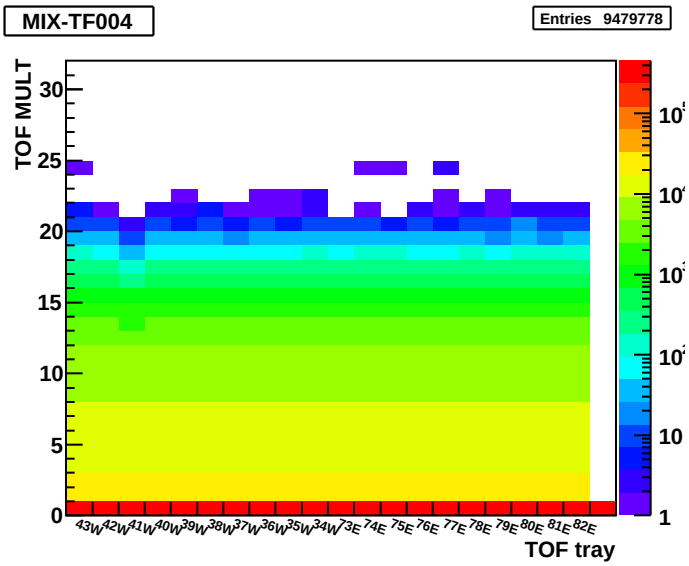

Barrel Jet Patches
Entries 4062762
JP ADC
JP ID

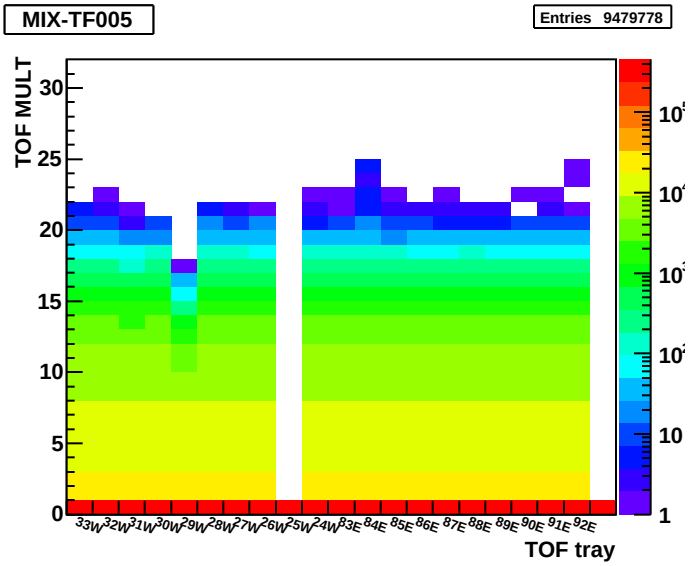

Hybrid Jet Patches
Entries 451418
JP ADC
JP ID

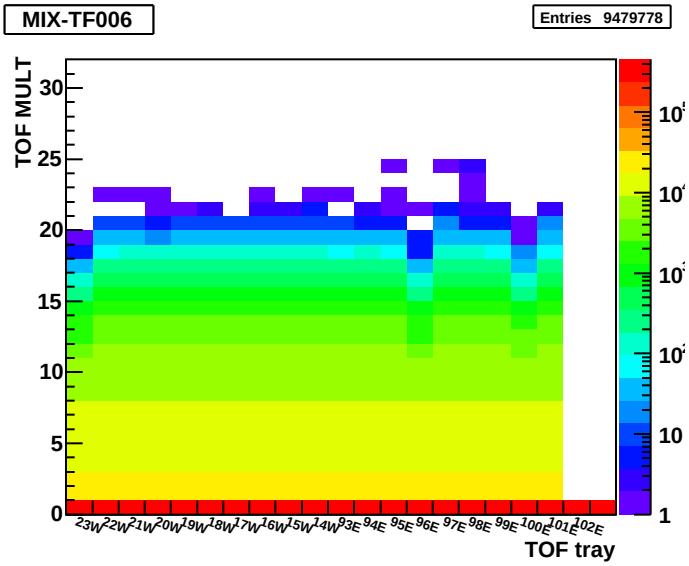

MIX-TF001
Entries 9479778
TOF MULT
TOF tray

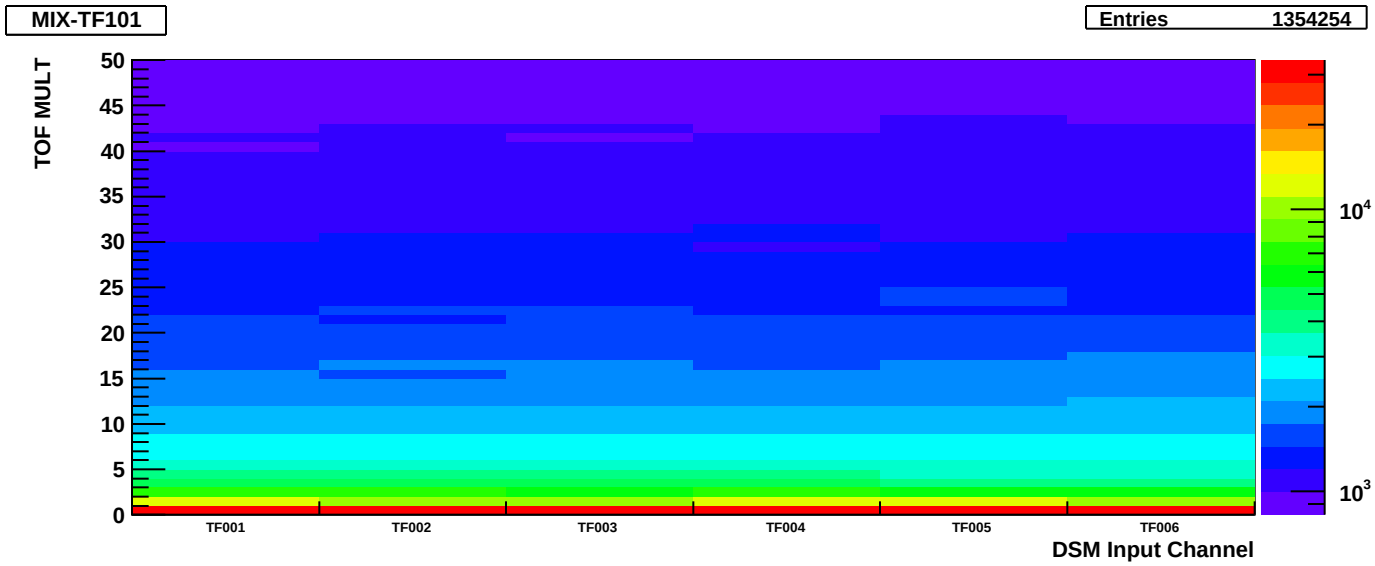

MIX-TF002
Entries 9479778
TOF MULT
TOF tray

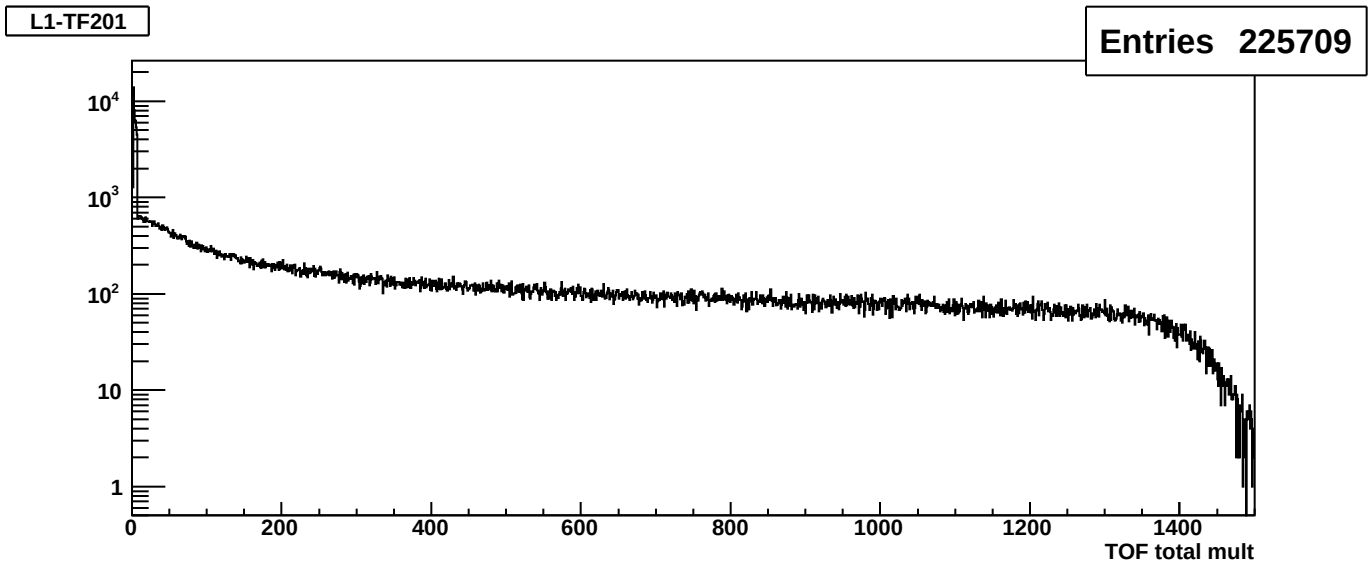

MIX-TF003
Entries 9479778
TOF MULT
TOF tray

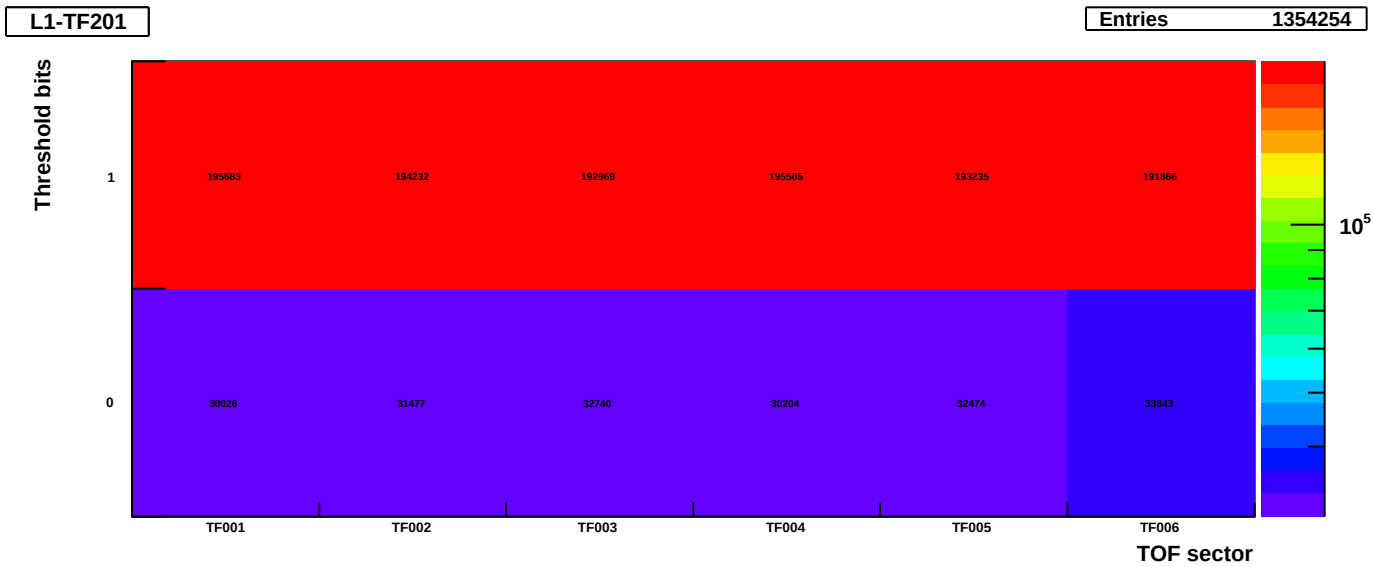

MIX-TF004
Entries 9479778
TOF MULT
TOF tray

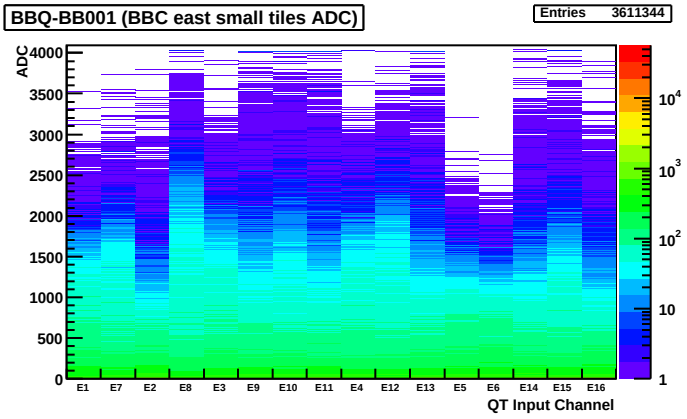

MIX-TF005
Entries 9479778
TOF MULT
TOF tray

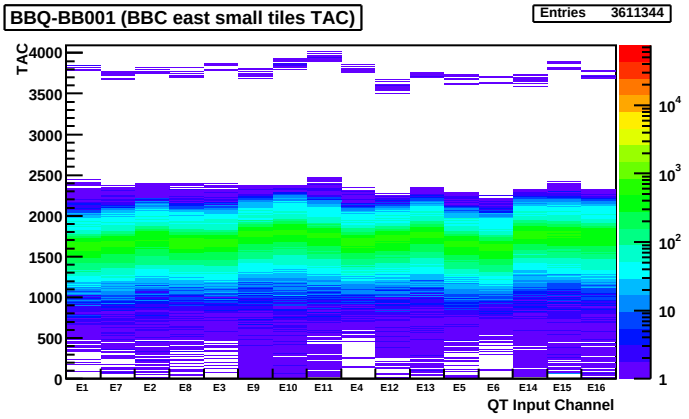

MIX-TF006
Entries 9479778
TOF MULT
TOF tray

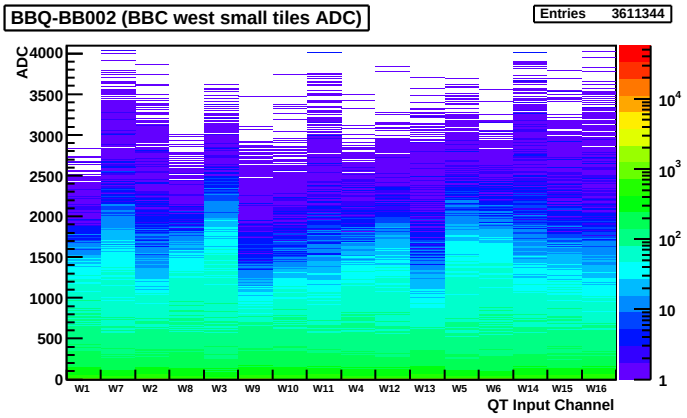

MIX-TF101
Entries 1354254
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

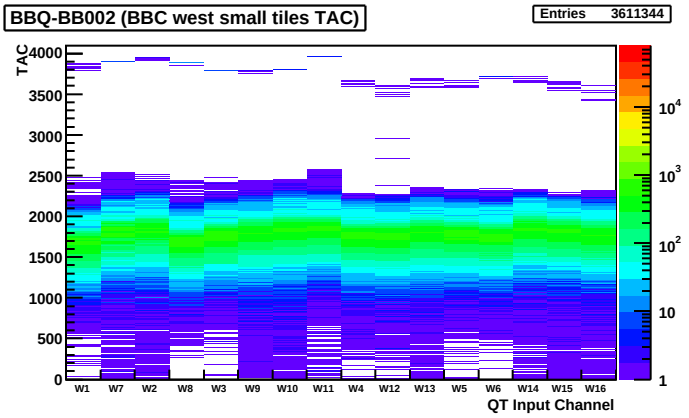

L1-TF201
Entries 225709
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

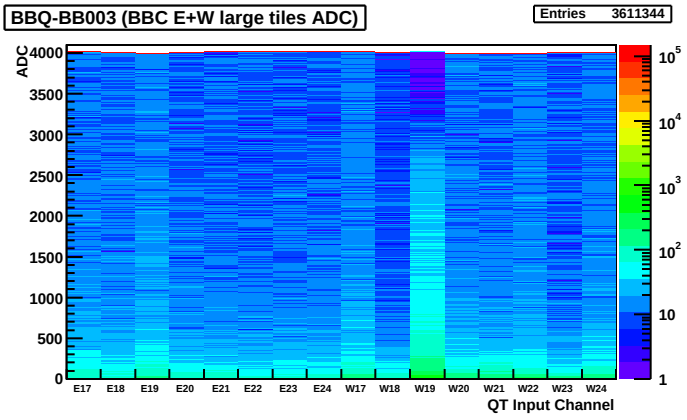

L1-TF201
Entries 1354254
Threshold bits
1
0
195683
194232
192969
195505
193235
191866
30026
31477
32740
30204
32474
33843
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

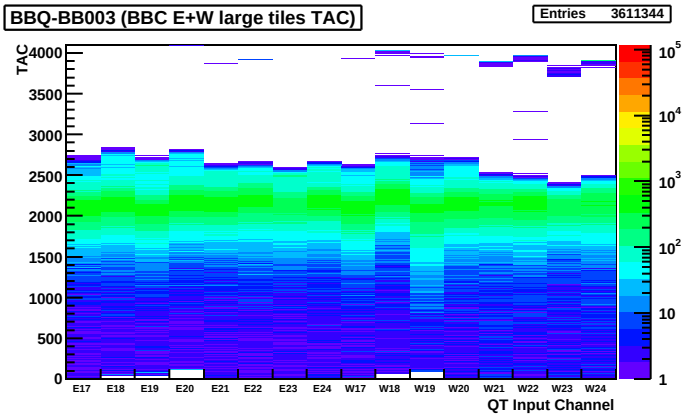

BBQ-BB001 (BBC east small tiles ADC)
Entries 3611344
ADC
QT Input Channel

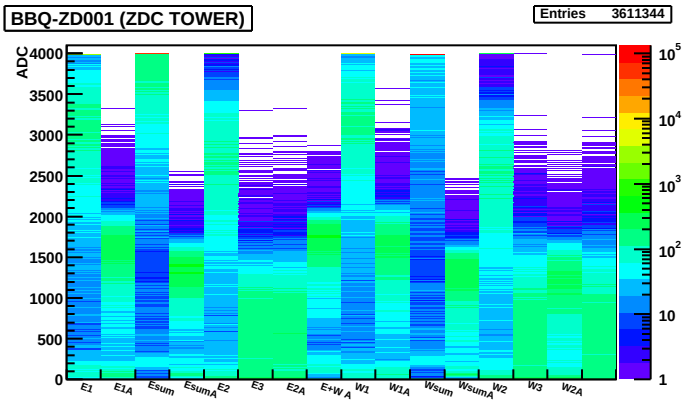

BBQ-BB001 (BBC east small tiles TAC)
Entries 3611344
TAC
QT Input Channel

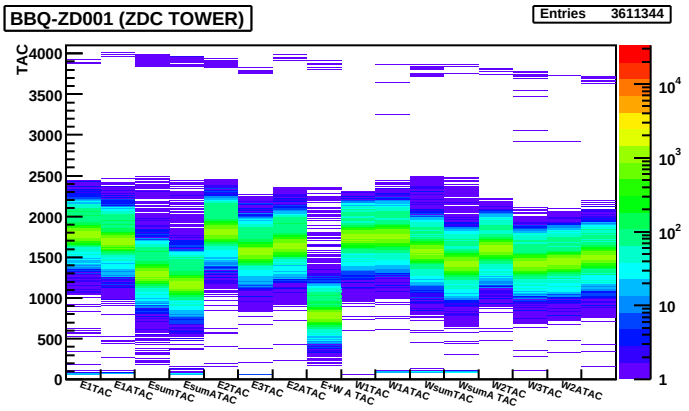

BBQ-BB002 (BBC west small tiles ADC)
Entries 3611344
ADC
QT Input Channel

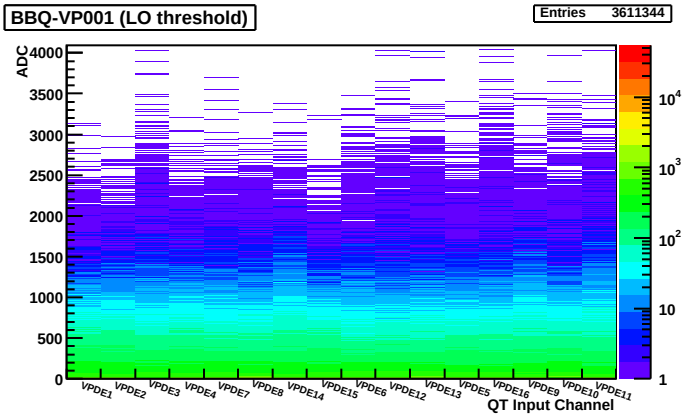

BBQ-BB002 (BBC west small tiles TAC)
Entries 3611344
TAC
QT Input Channel

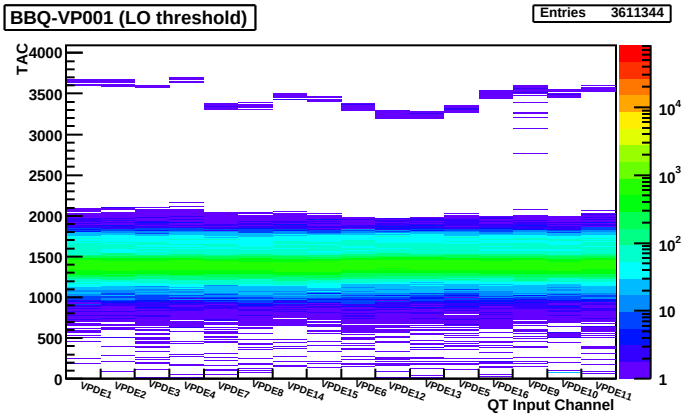

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3611344
ADC
QT Input Channel

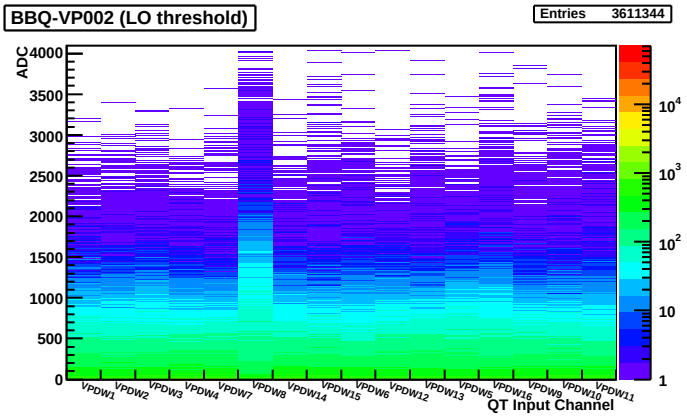

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3611344
TAC
QT Input Channel

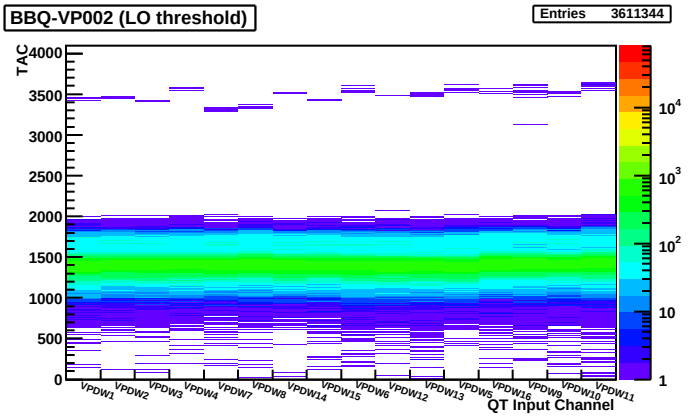

BBQ-ZD001 (ZDC TOWER)
Entries 3611344
ADC

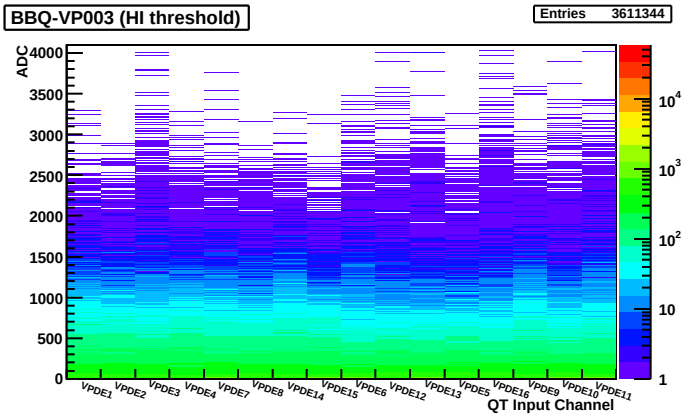

BBQ-ZD001 (ZDC TOWER)
Entries 3611344
TAC

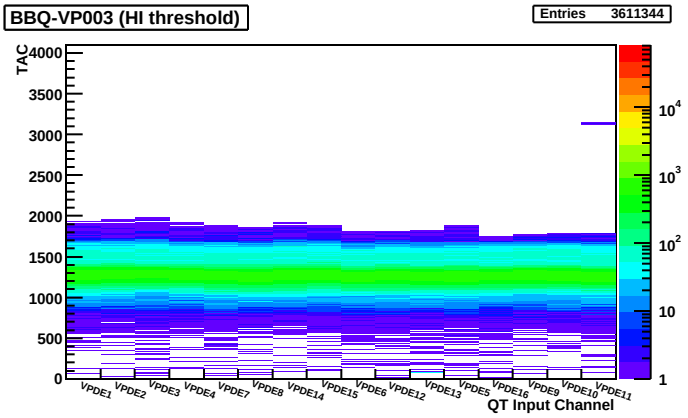

BBQ-VP001 (LO threshold)
Entries 3611344
ADC
QT Input Channel

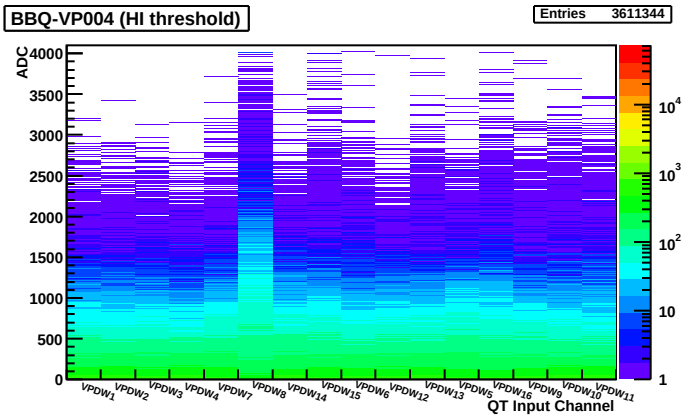

BBQ-VP001 (LO threshold)
Entries 3611344
TAC
QT Input Channel

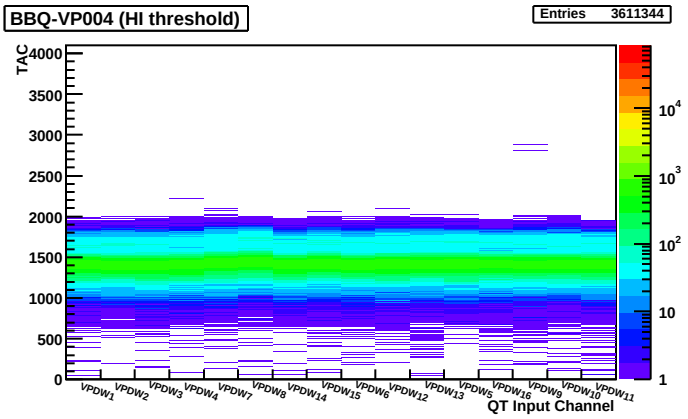

BBQ-VP002 (LO threshold)
Entries 3611344
ADC
QT Input Channel

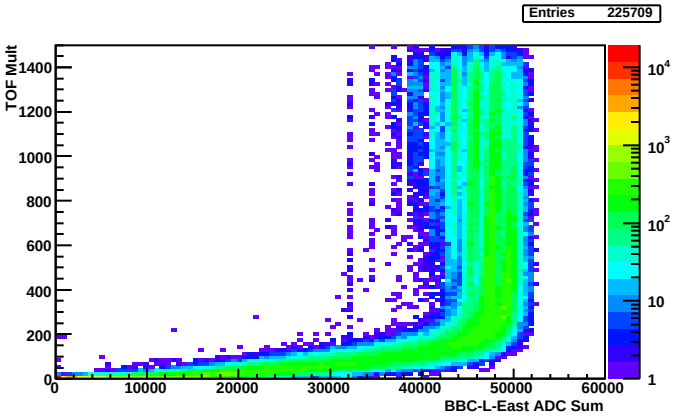

BBQ-VP002 (LO threshold)
Entries 3611344
TAC
QT Input Channel

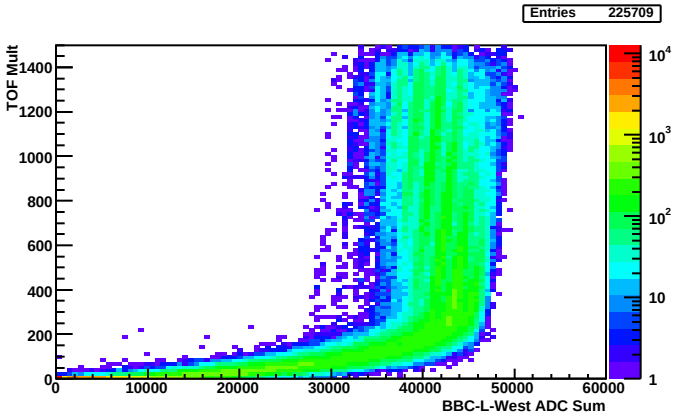

BBQ-VP003 (HI threshold)
Entries 3611344
ADC
QT Input Channel

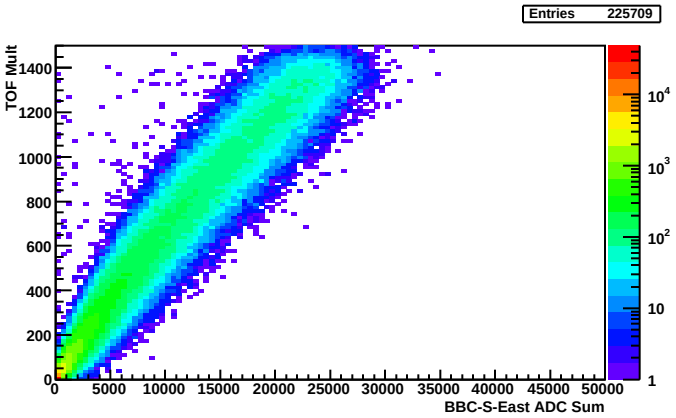

BBQ-VP003 (HI threshold)
Entries 3611344
TAC
QT Input Channel

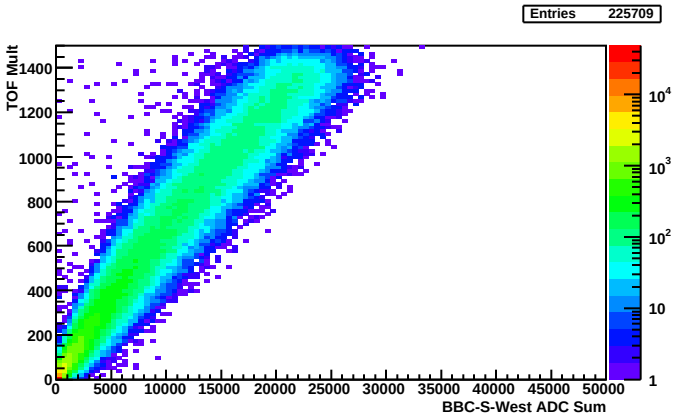

BBQ-VP004 (HI threshold)
Entries 3611344
ADC
QT Input Channel

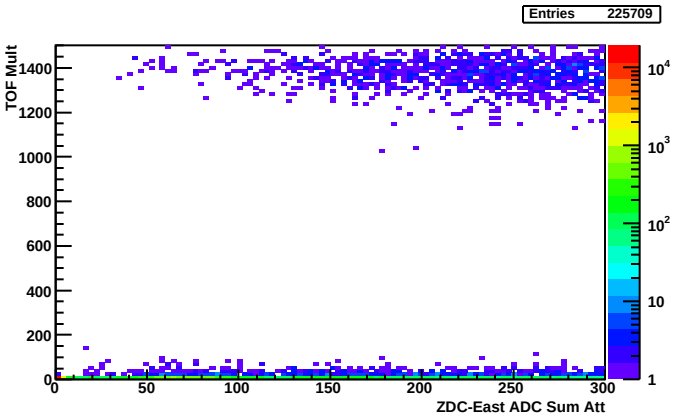

BBQ-VP004 (HI threshold)
Entries 3611344
TAC
QT Input Channel

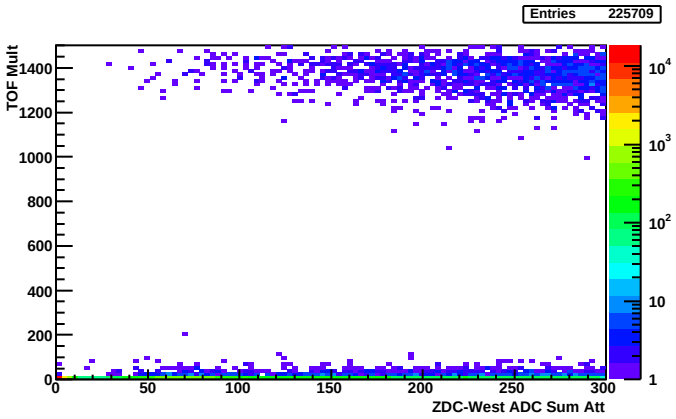

Entries 225709
TOF Mult
BBC-L-East ADC Sum

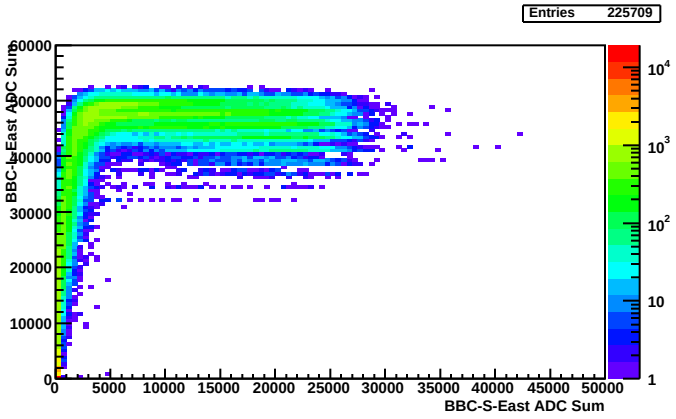

Entries 225709
TOF Mult
BBC-L-West ADC Sum

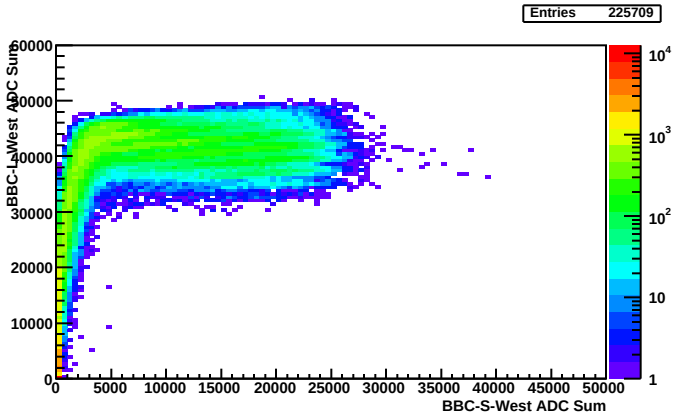

Entries 225709
TOF Mult
BBC-S-East ADC Sum

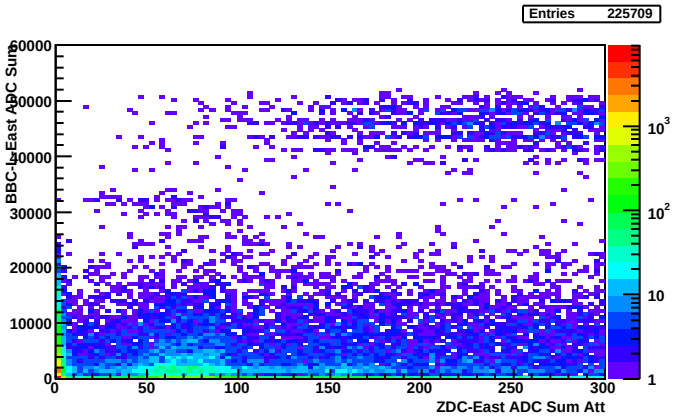

Entries 225709
TOF Mult
BBC-S-West ADC Sum

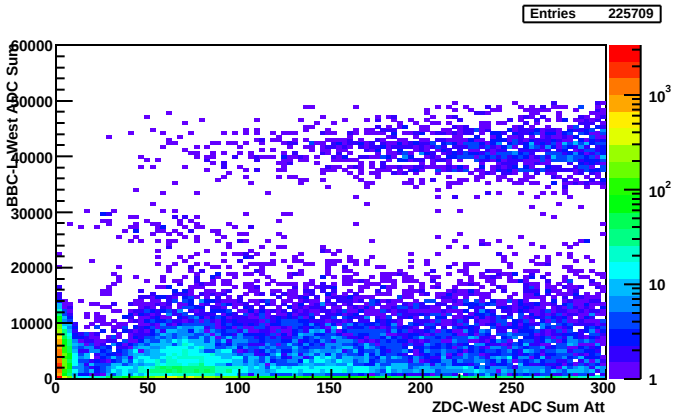

Entries 225709
TOF Mult
ZDC-East ADC Sum Att

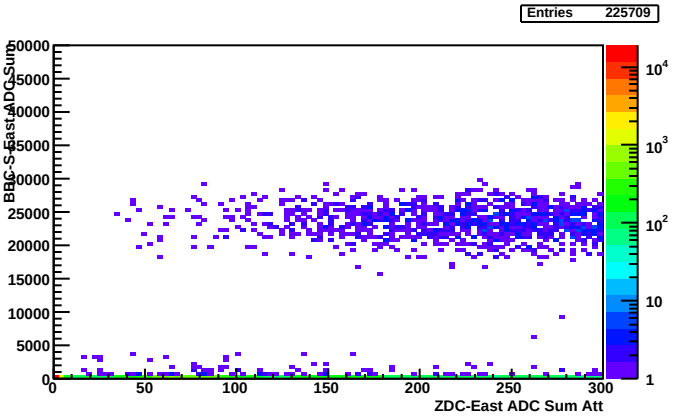

Entries 225709
TOF Mult
ZDC-West ADC Sum Att

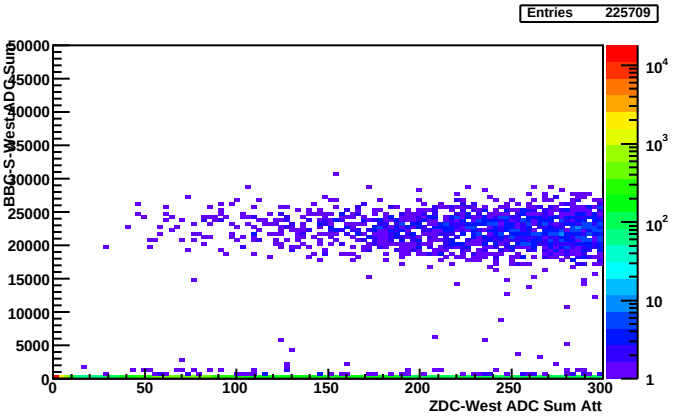

Entries 225709
BBC-L-East ADC Sum
BBC-S-East ADC Sum

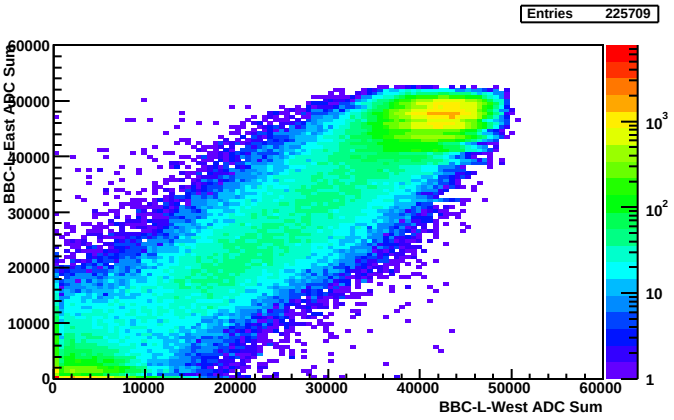

Entries 225709
BBC-L-West ADC Sum
BBC-S-West ADC Sum

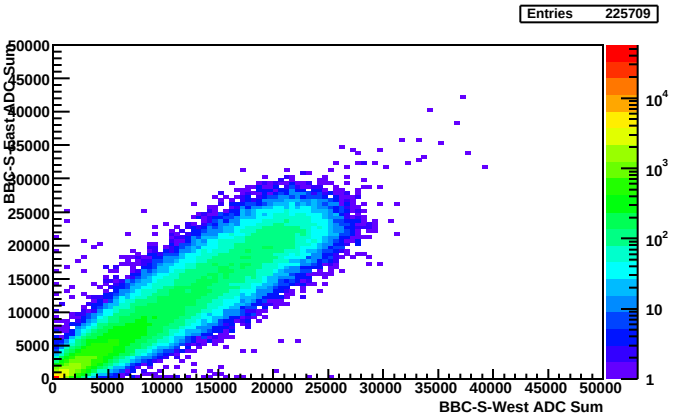

Entries 225709
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

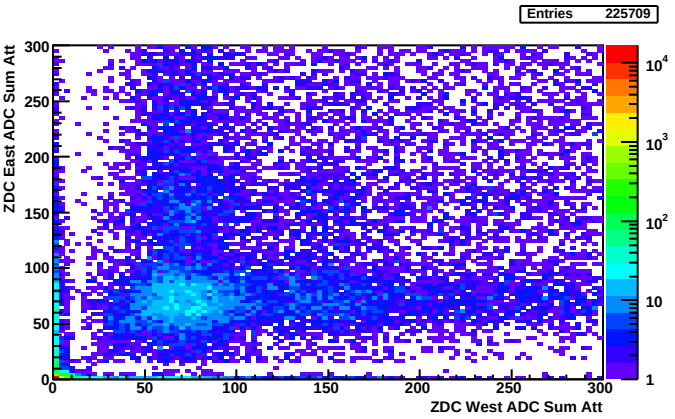

Entries 225709
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

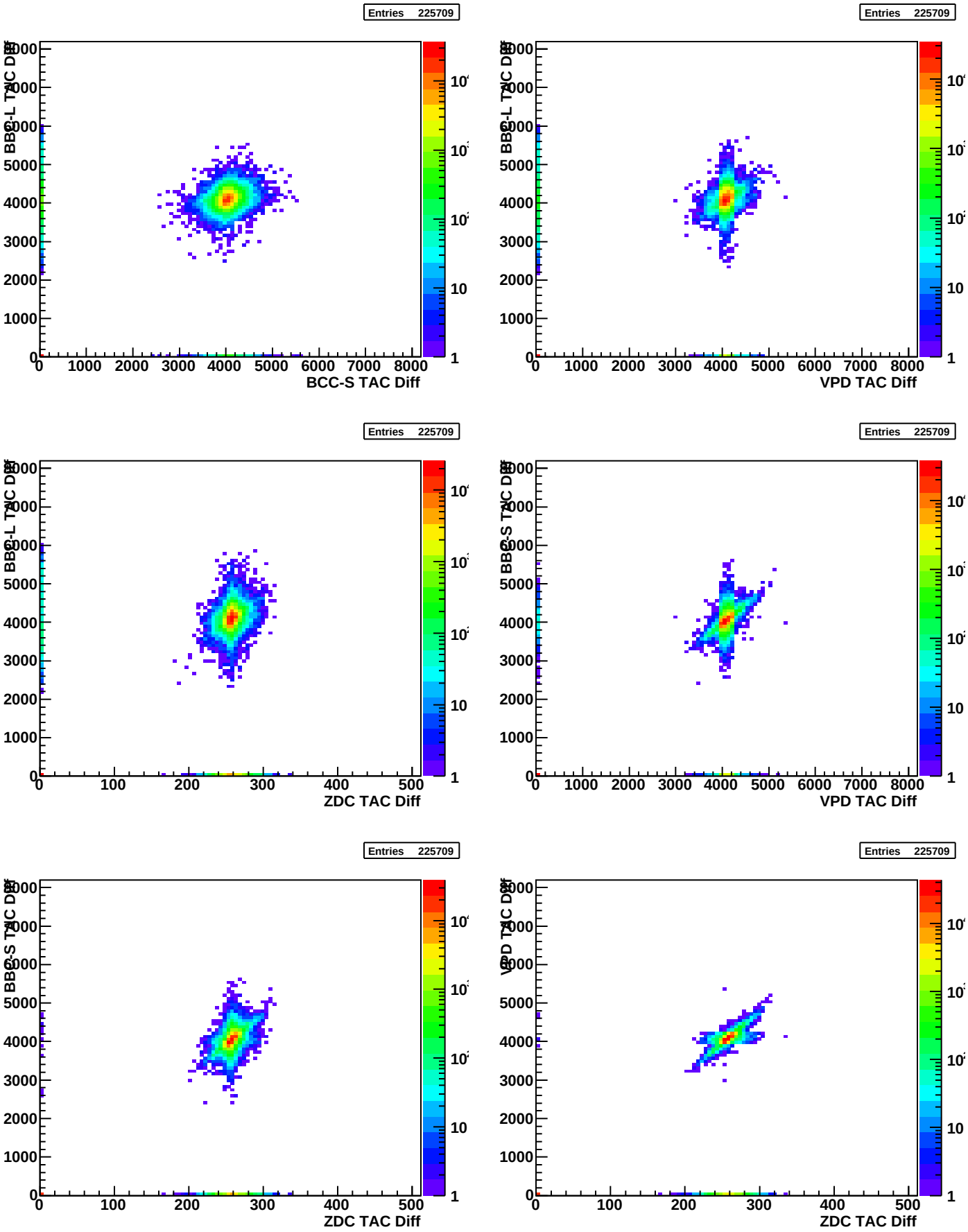

Entries 225709
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

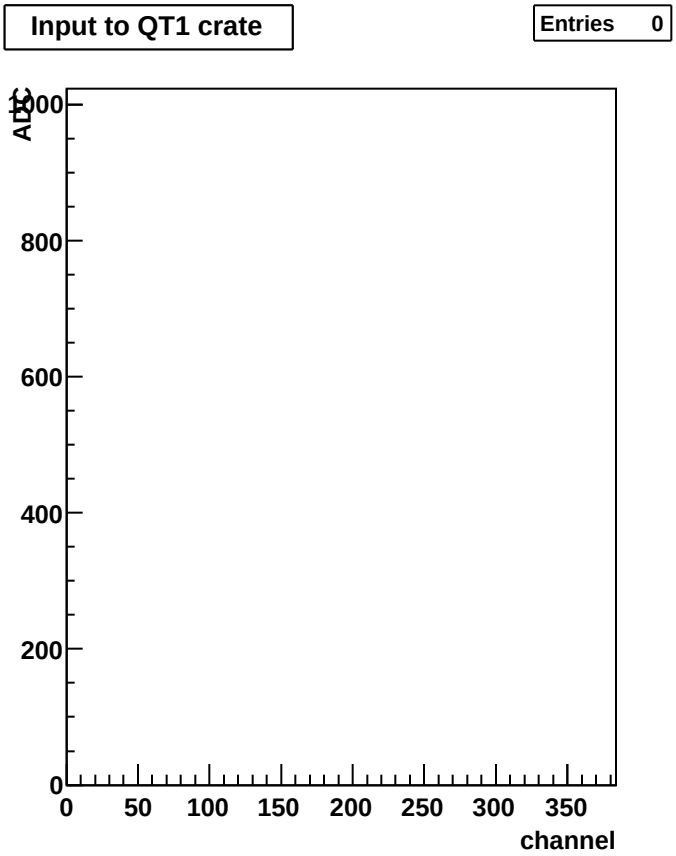

Entries 225709
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

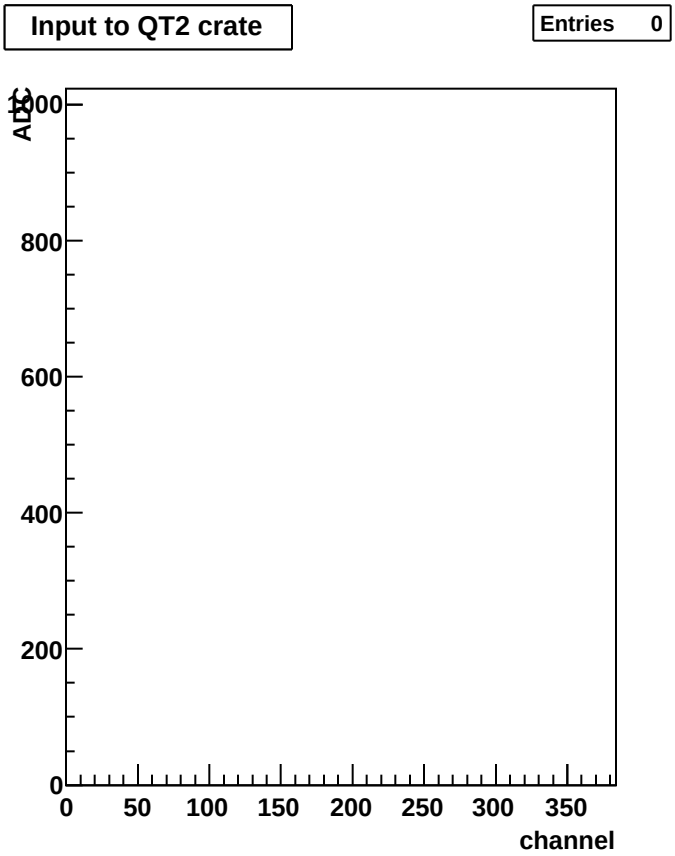

Entries 225709
BBC-L-East ADC Sum
BBC-L-West ADC Sum

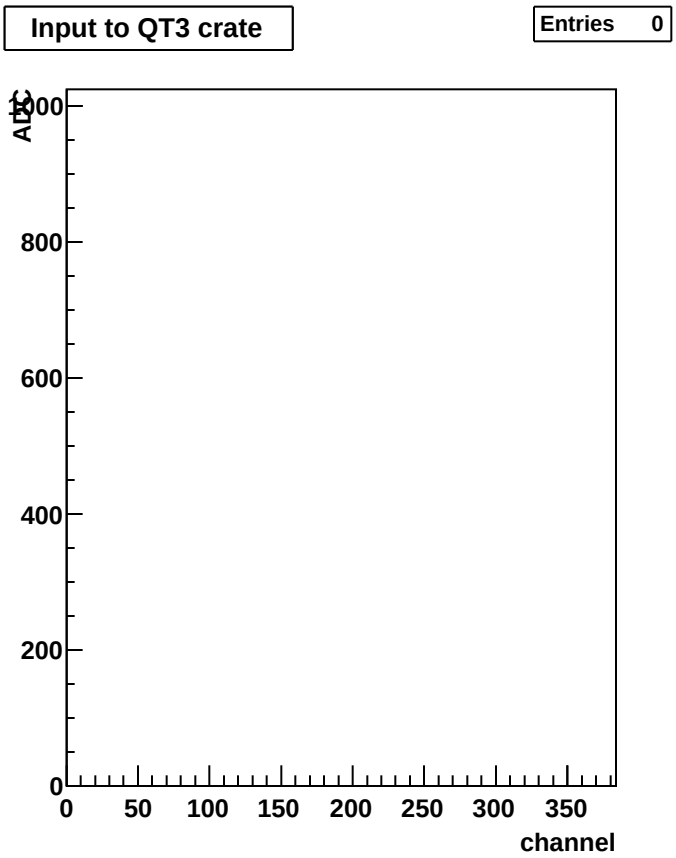

Entries 225709
BBC-S-East ADC Sum
BBC-S-West ADC Sum

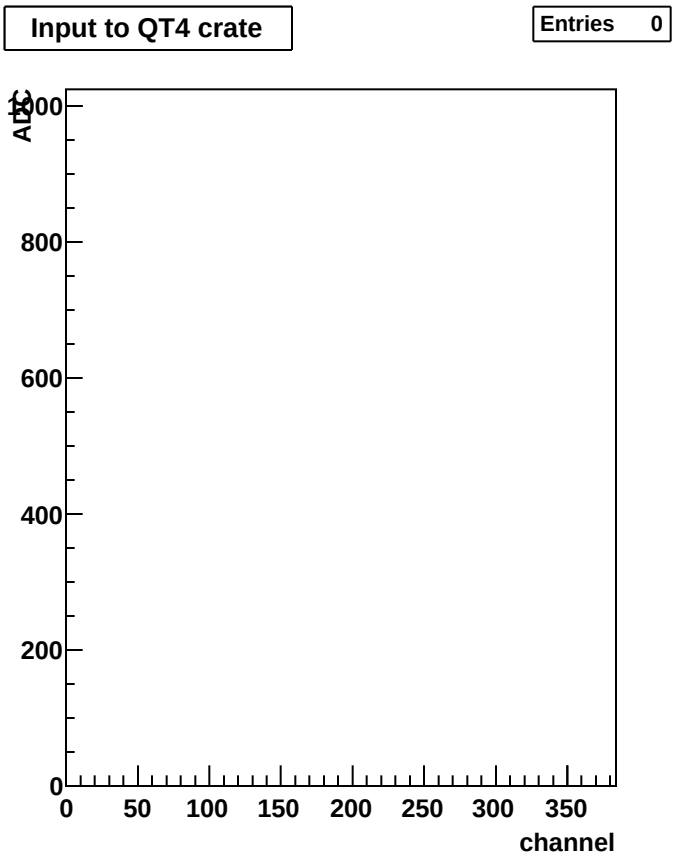

Entries 225709
ZDC East ADC Sum Att
ZDC West ADC Sum Att

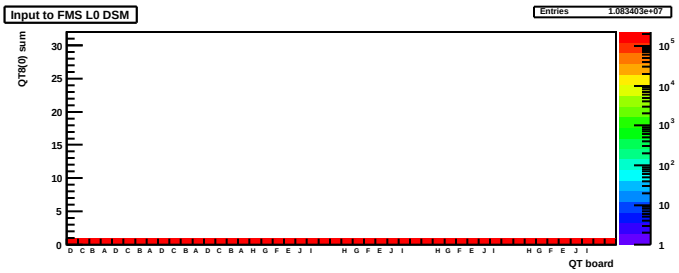

Entries 225709
BBC-L TAC Diff
BCC-S TAC Diff
Entries 225709
BBC-L TAC Diff
VPD TAC Diff
Entries 225709
BBC-L TAC Diff
ZDC TAC Diff
Entries 225709
BBC-S TAC Diff
VPD TAC Diff
Entries 225709
BBC-S TAC Diff
ZDC TAC Diff
Entries 225709
VPD TAC Diff
ZDC TAC Diff

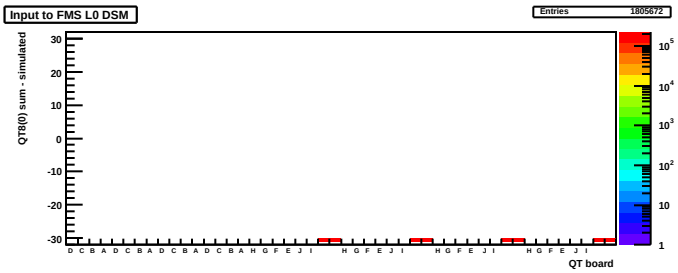

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

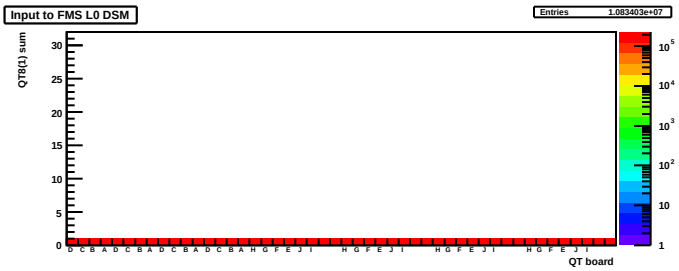

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

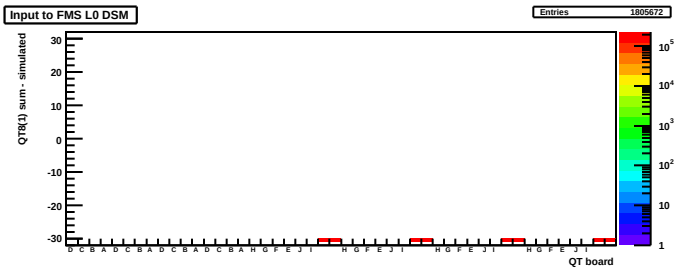

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

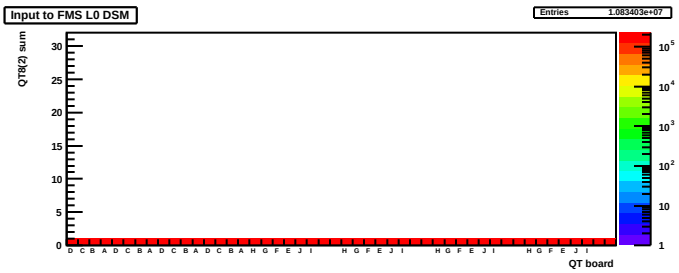

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

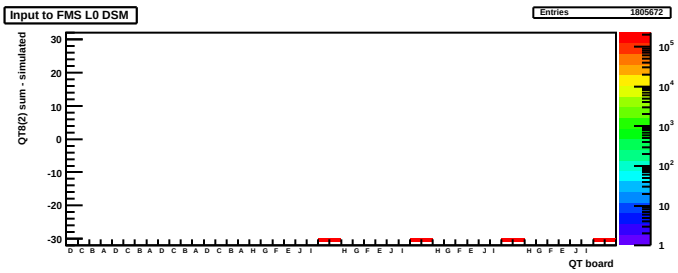

Input to FMS L0 DSM
Entries 1.083403e+07
QT8(0) sum
QT board

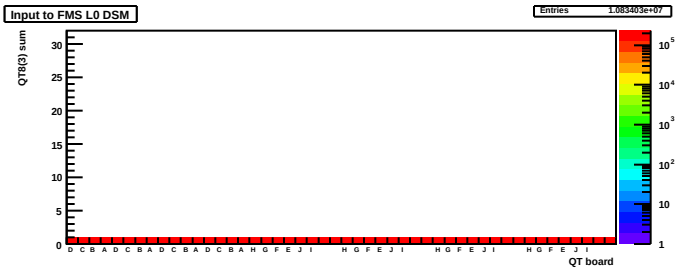

Input to FMS L0 DSM
Entries 1805672
QT8(0) sum - simulated
QT board

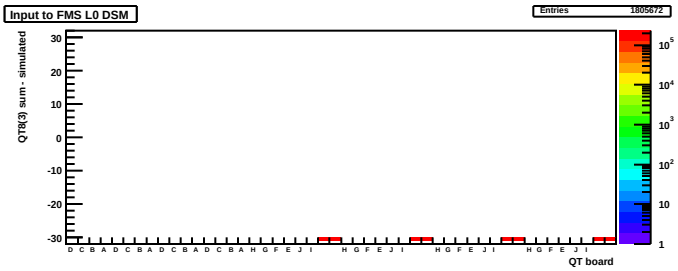

Input to FMS L0 DSM
Entries 1.083403e+07
QT8(1) sum
QT board

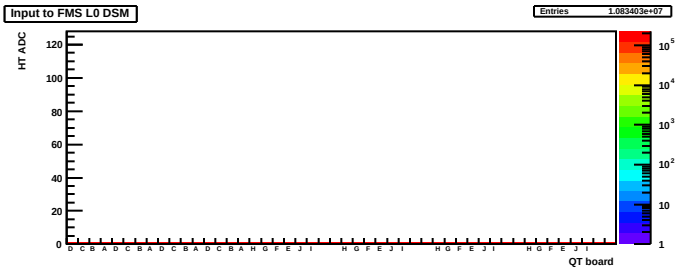

Input to FMS L0 DSM
Entries 1805672
QT8(1) sum - simulated
QT board

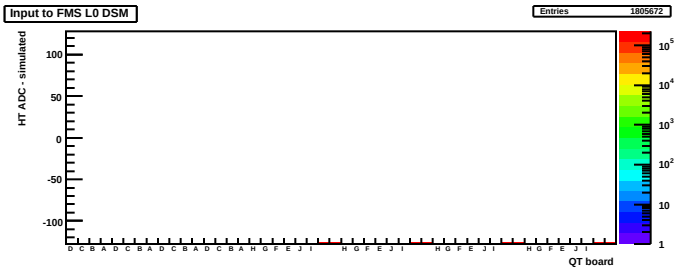

Input to FMS L0 DSM
Entries 1.083403e+07
QT8(2) sum
QT board

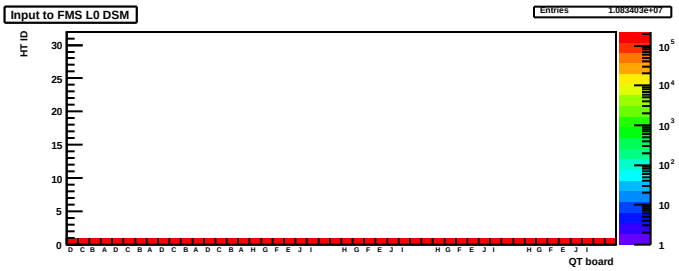

Input to FMS L0 DSM
Entries 1805672
QT8(2) sum - simulated
QT board

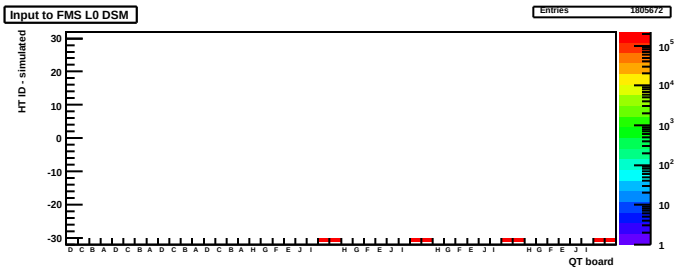

Input to FMS L0 DSM
Entries 1.083403e+07
QT8(3) sum
QT board

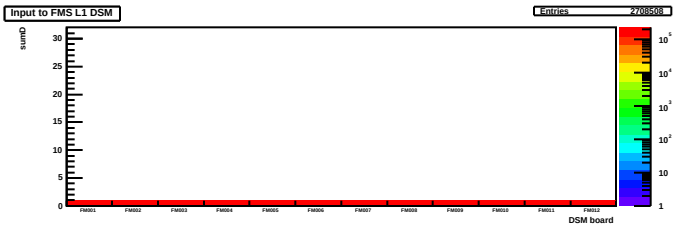

Input to FMS L0 DSM
Entries 1805672
QT8(3) sum - simulated
QT board

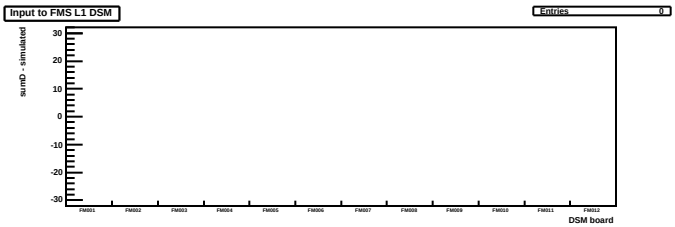

Input to FMS L0 DSM
Entries 1.083403e+07
HT ADC
QT board

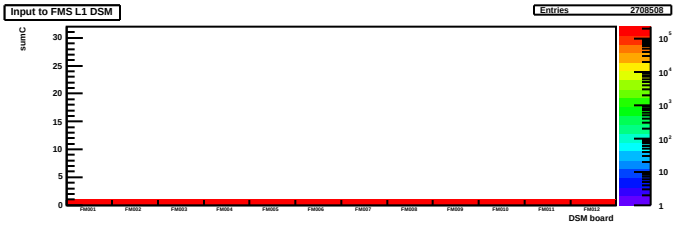

Input to FMS L0 DSM
Entries 1805672
HT ADC - simulated
QT board

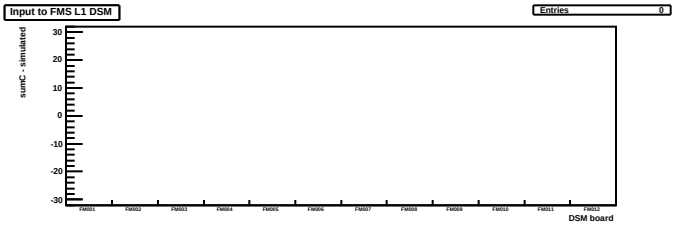

Input to FMS L0 DSM
Entries 1.083403e+07
HT ID
QT board

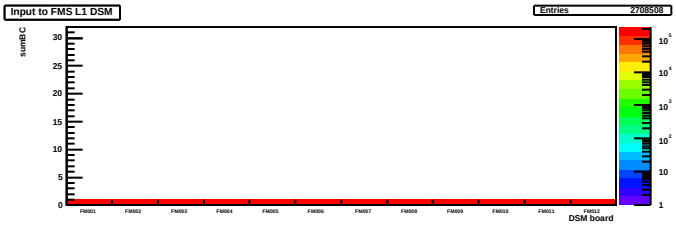

Input to FMS L0 DSM
Entries 1805672
HT ID - simulated
QT board

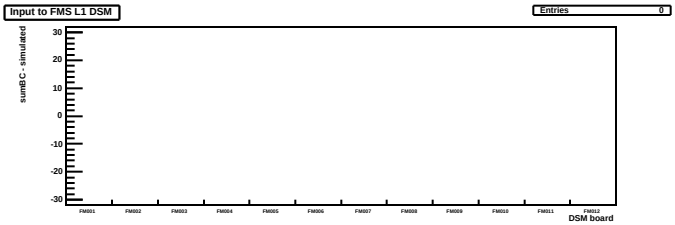

Input to FMS L1 DSM
Entries 2708508
sumD
DSM board

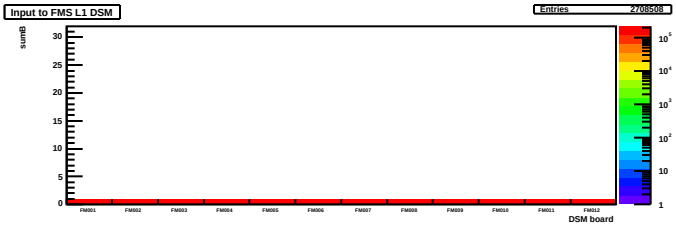

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

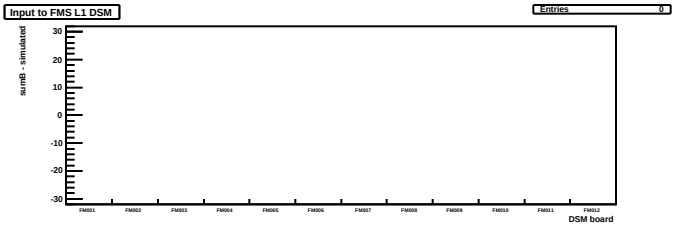

Input to FMS L1 DSM
Entries 2708508
sumC
DSM board

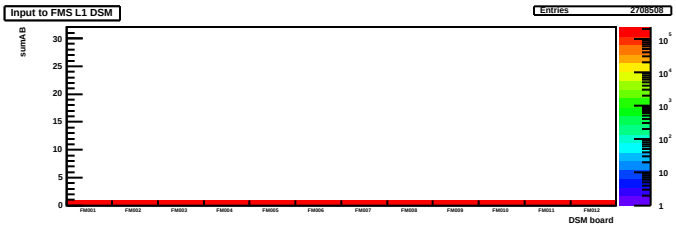

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

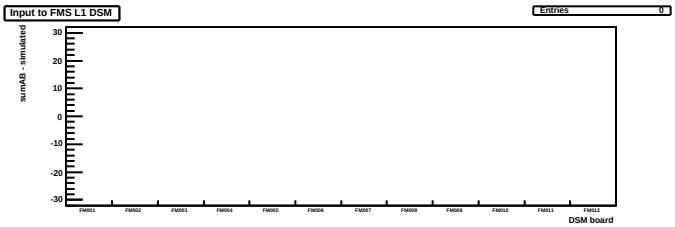

Input to FMS L1 DSM
Entries 2708508
sumBC
DSM board

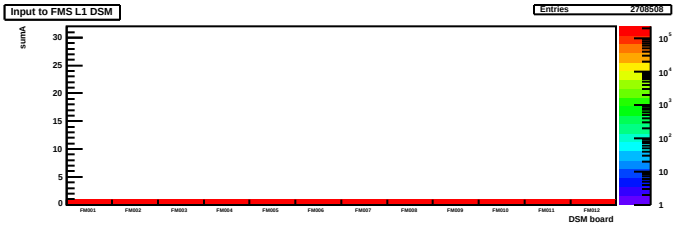

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

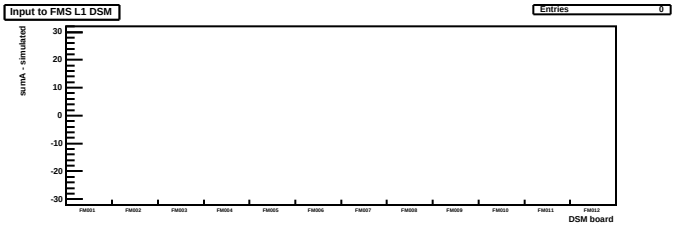

Input to FMS L1 DSM
Entries 2708508
sumB
DSM board

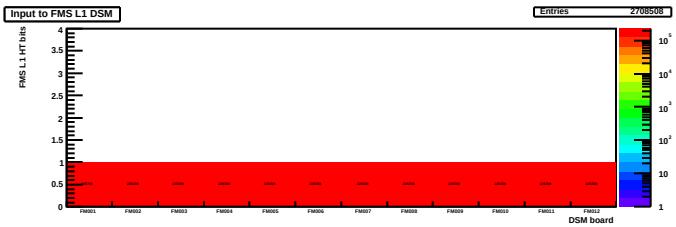

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

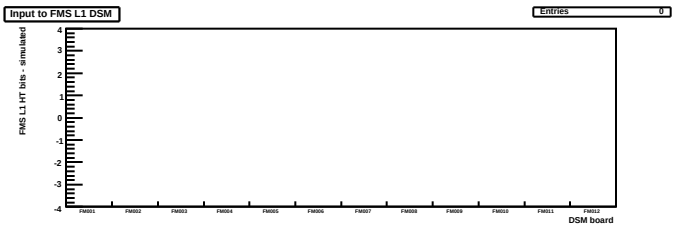

Input to FMS L1 DSM
Entries 2708508
sumAB
DSM board

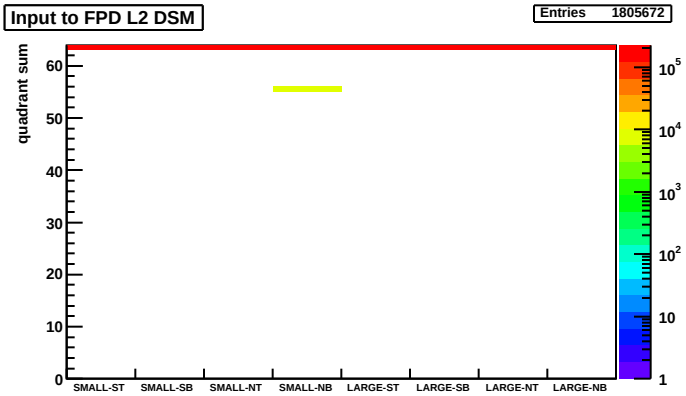

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

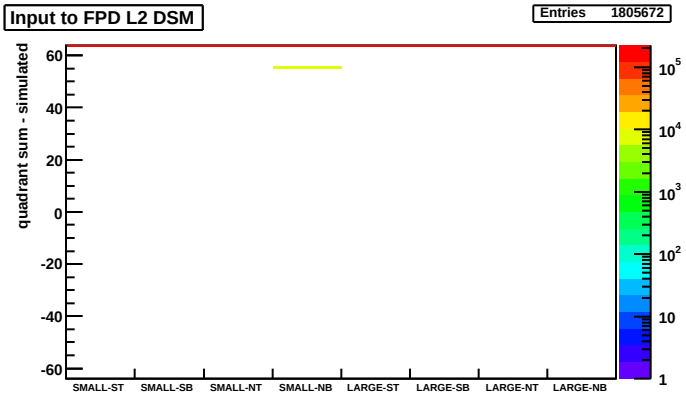

Input to FMS L1 DSM
Entries 2708508
sumA
DSM board

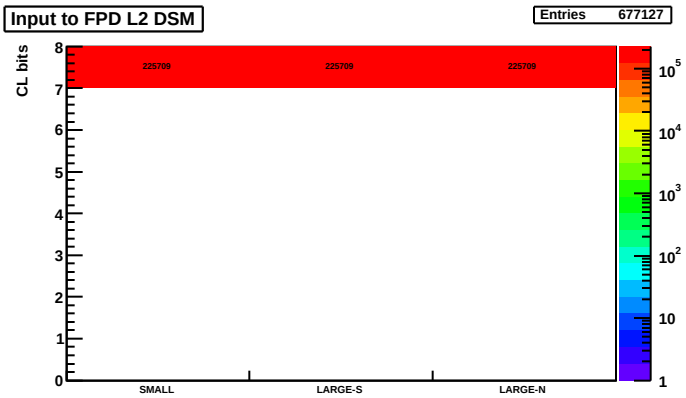

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

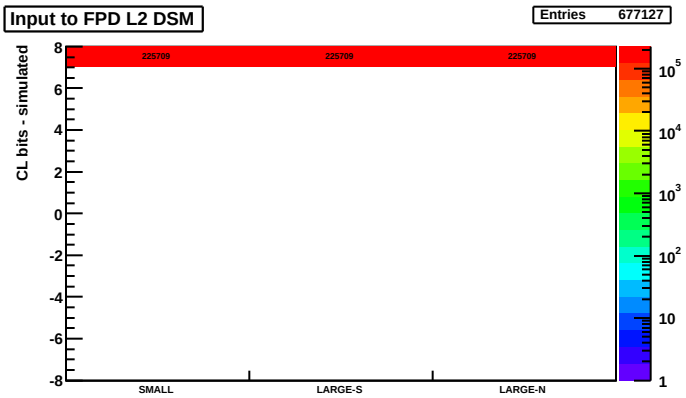

Input to FMS L1 DSM
Entries 2708508
FMS L1 HT bits
DSM board

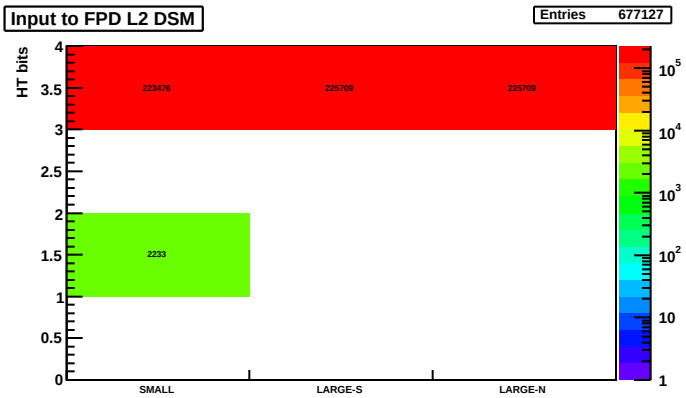

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

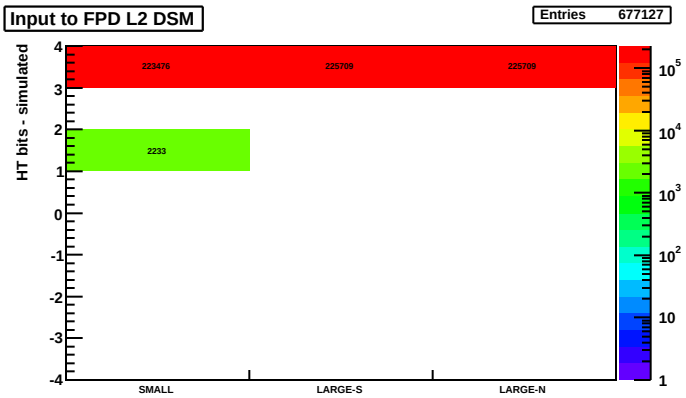

Input to FPD L2 DSM
Entries 1805672
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

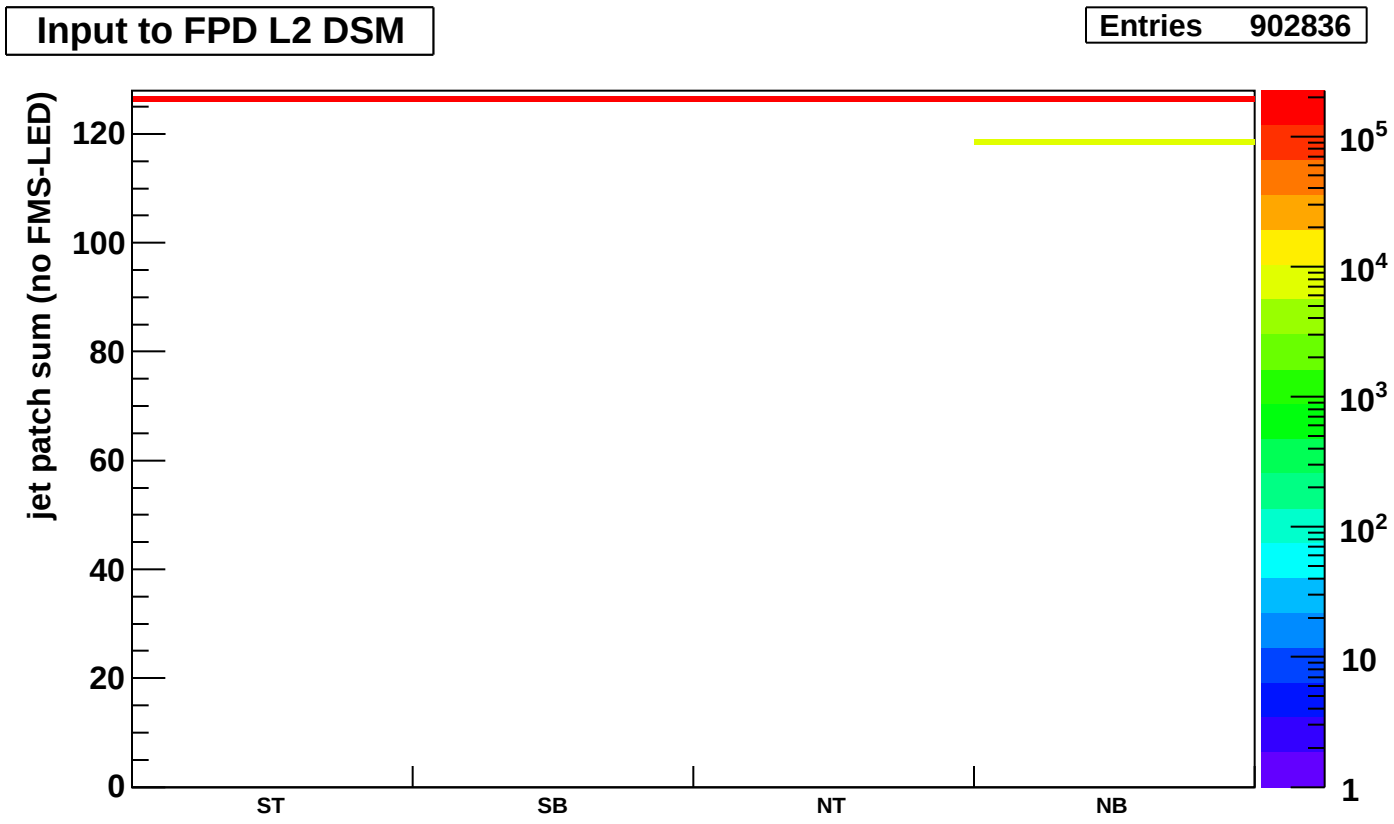

Input to FPD L2 DSM
Entries 1805672
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

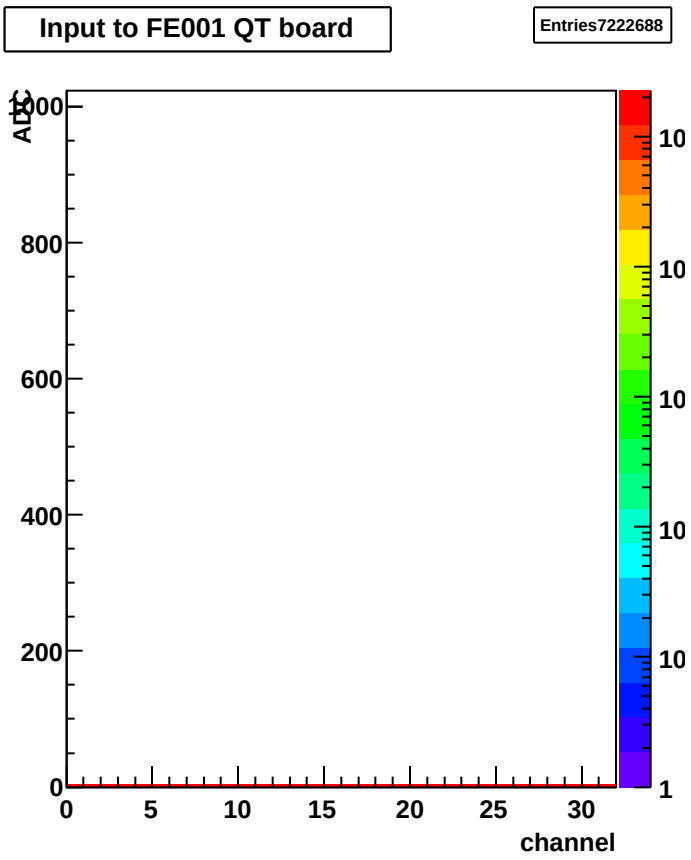

Input to FPD L2 DSM
Entries 677127
CL bits
225709
225709
225709
SMALL
LARGE-S
LARGE-N

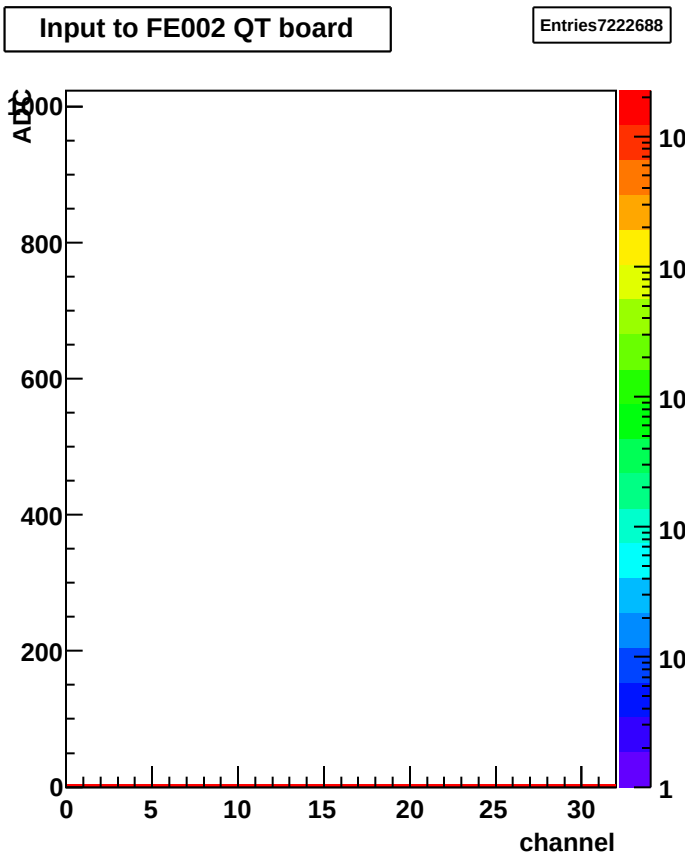

Input to FPD L2 DSM
Entries 677127
CL bits - simulated
225709
225709
225709
SMALL
LARGE-S
LARGE-N

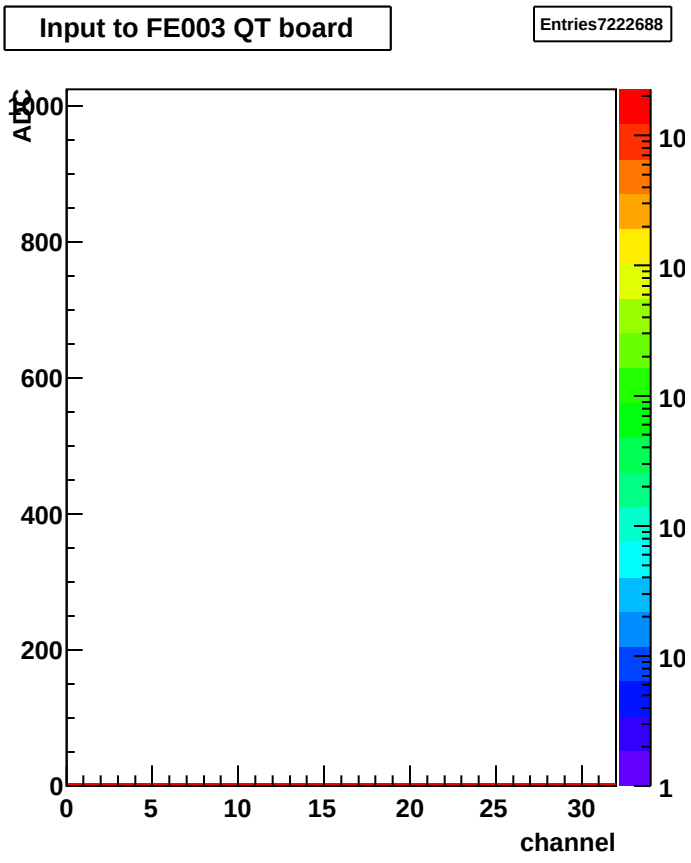

Input to FPD L2 DSM
Entries 677127
HT bits
223476
225709
225709
2233
SMALL
LARGE-S
LARGE-N

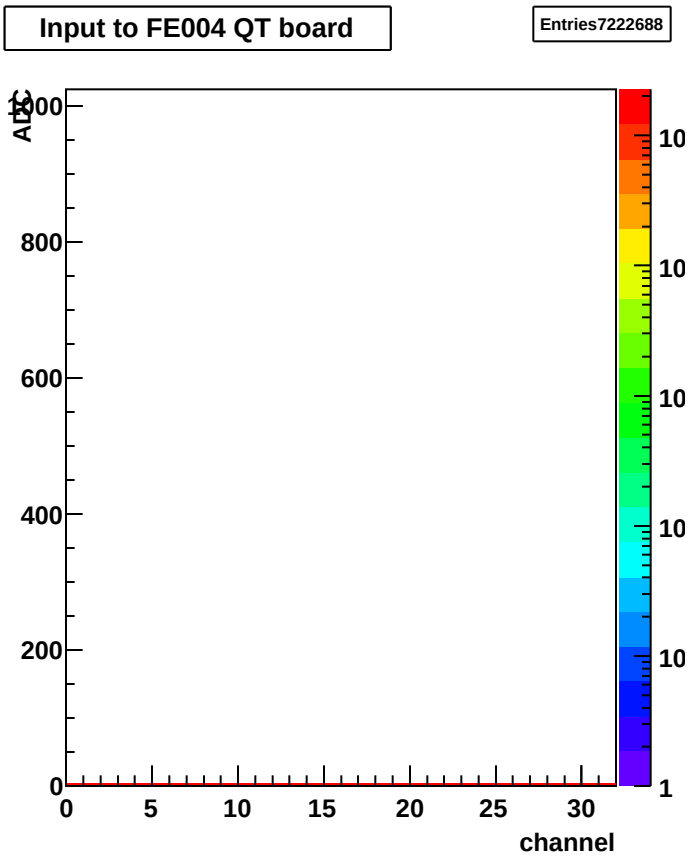

Input to FPD L2 DSM
Entries 677127
HT bits - simulated
223476
225709
225709
2233
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 902836
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

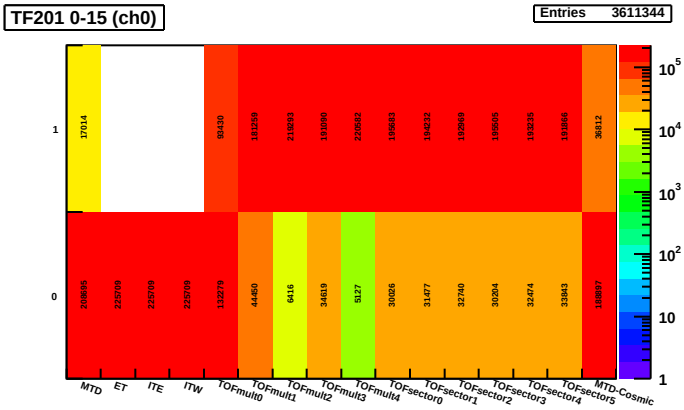

Input to FE001 QT board
Entries7222688
ADC
channel


Input to FE002 QT board
Entries7222688
ADC
channel

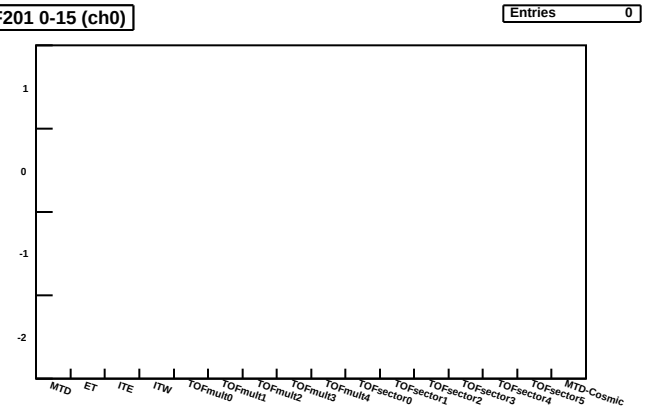

Input to FE003 QT board
Entries7222688
ADC
channel


Input to FE004 QT board
Entries7222688
ADC
channel

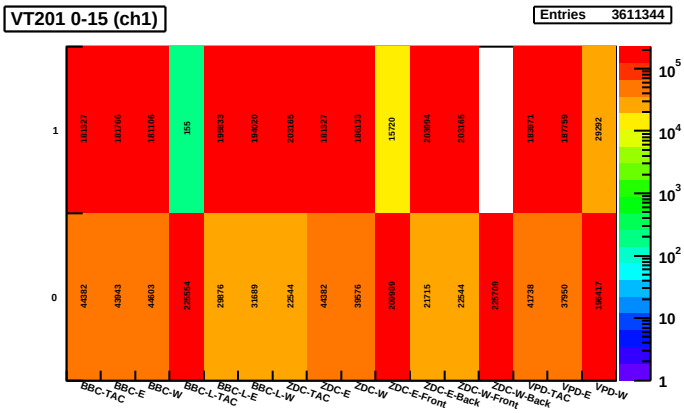
TF201 0-15 (ch0)



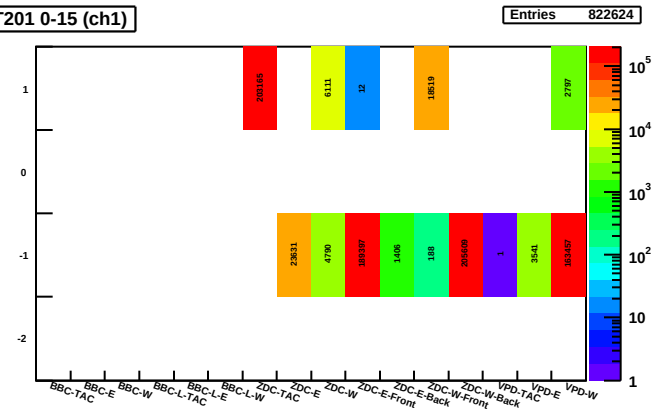
TF201 0-15 (ch0)



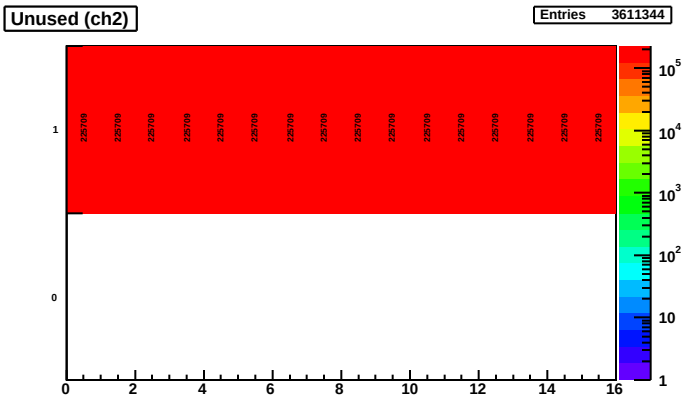
VT201 0-15 (ch1)

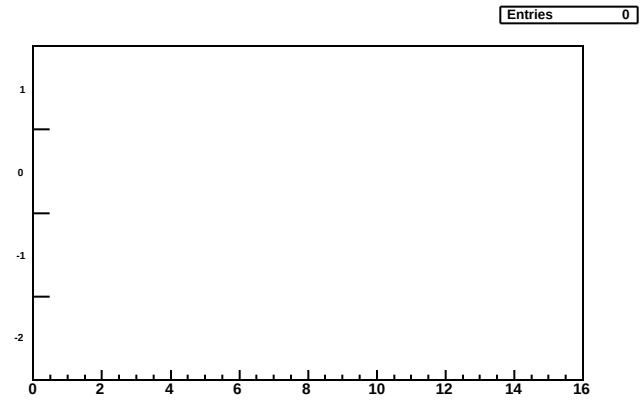


VT201 0-15 (ch1)

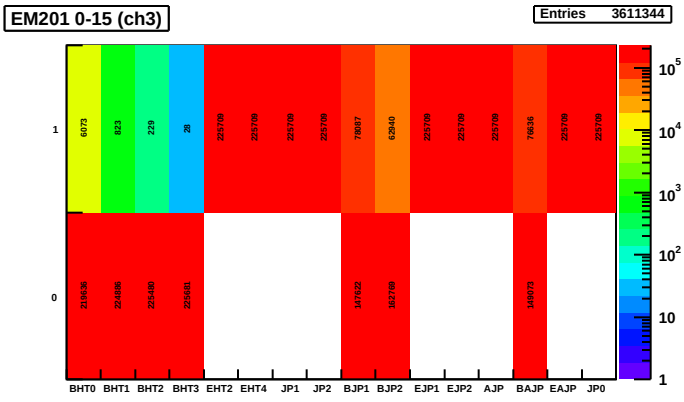


Unused (ch2)

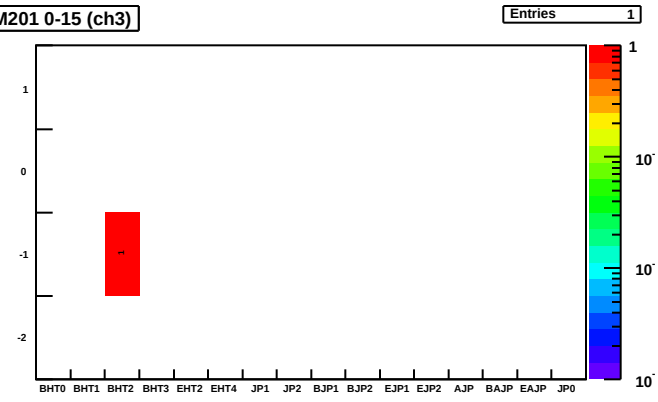




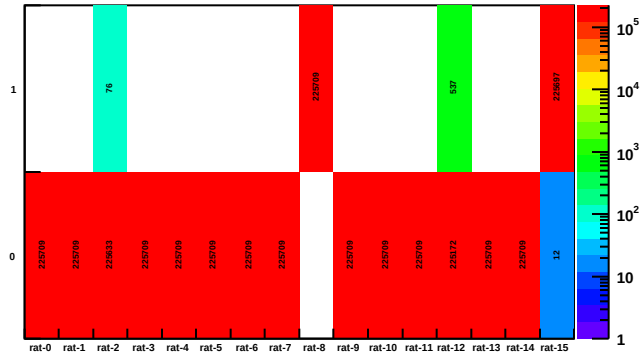
EM201 0-15 (ch3)

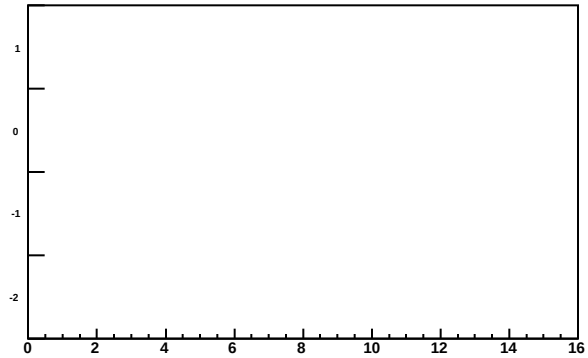


EM201 0-15 (ch3)

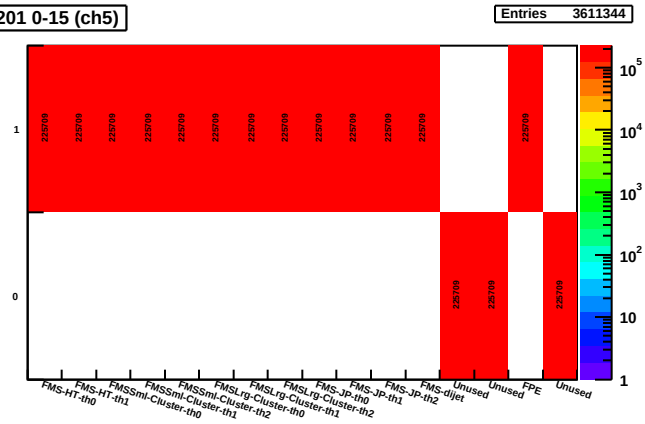


RAT board (ch4)

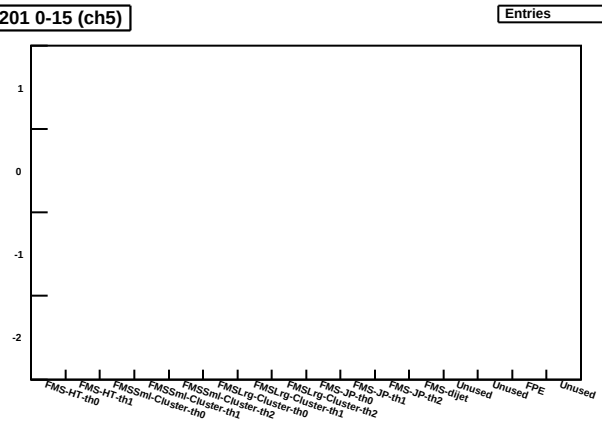




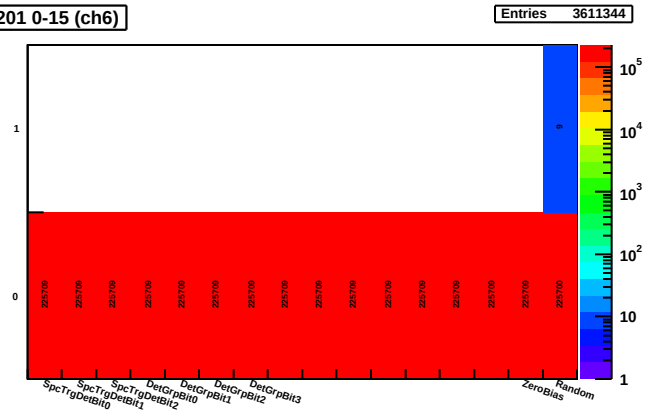
FP201 0-15 (ch5)

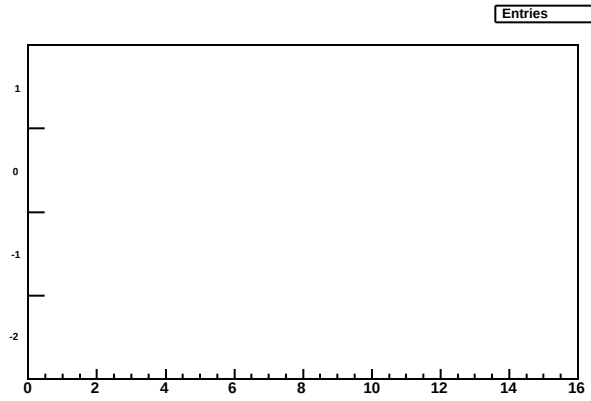
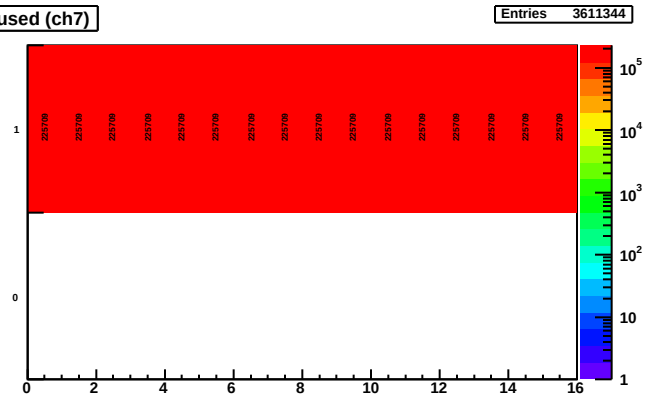
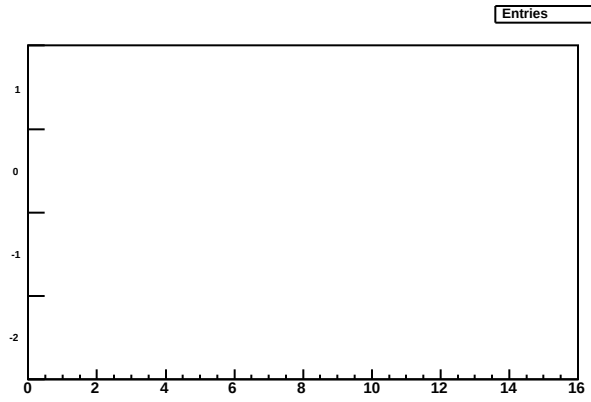


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)