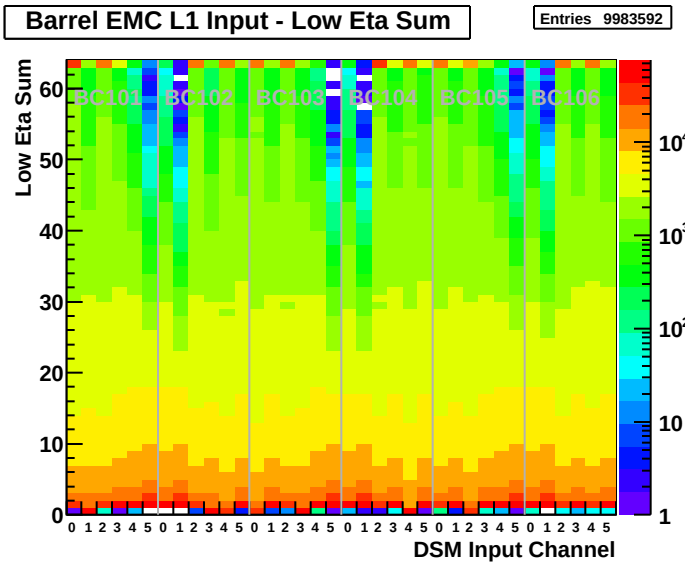
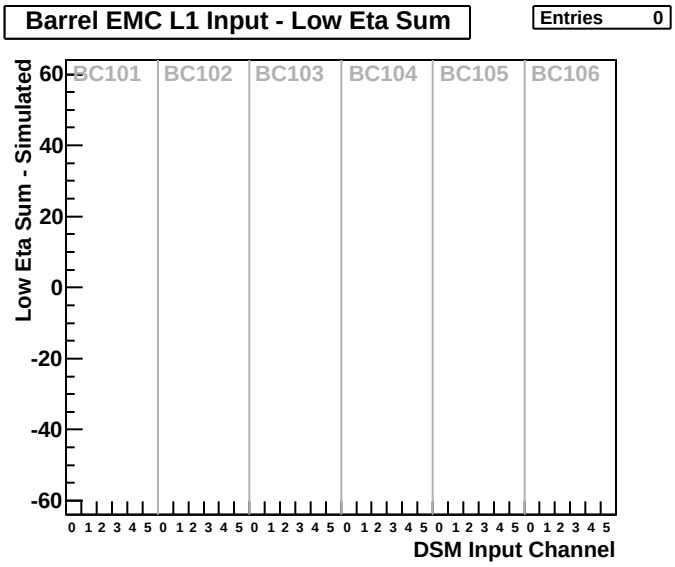
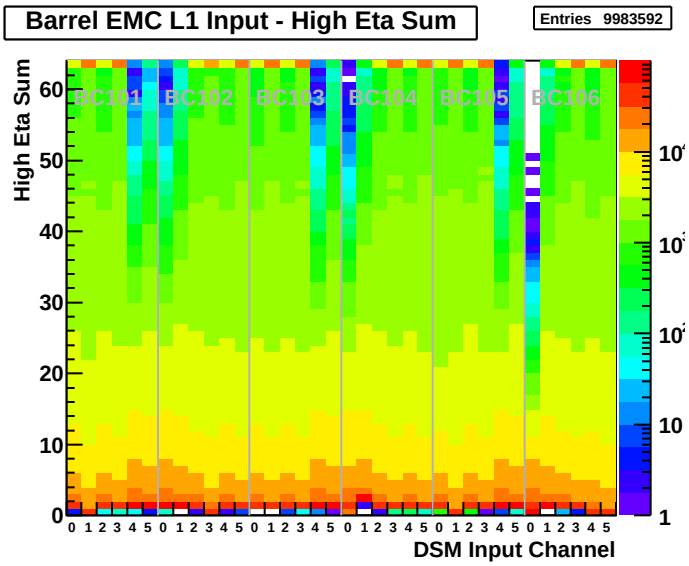
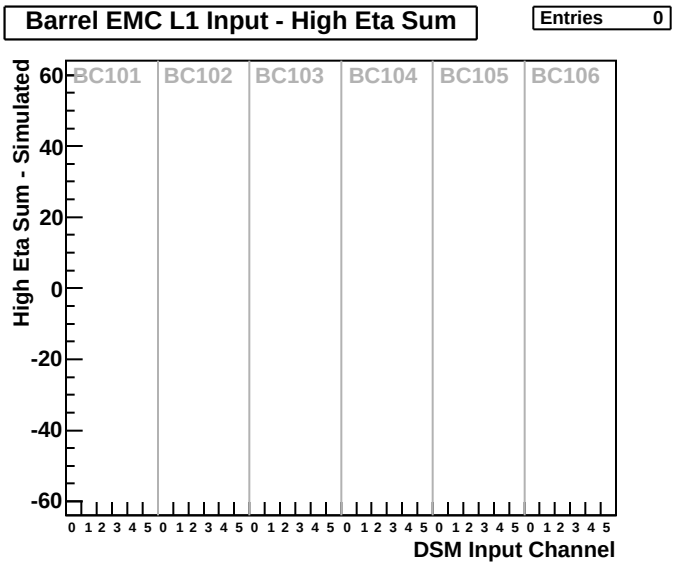
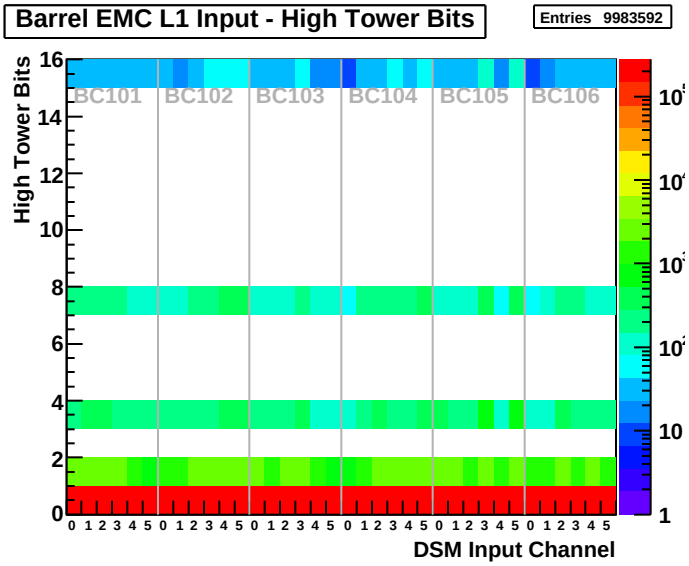
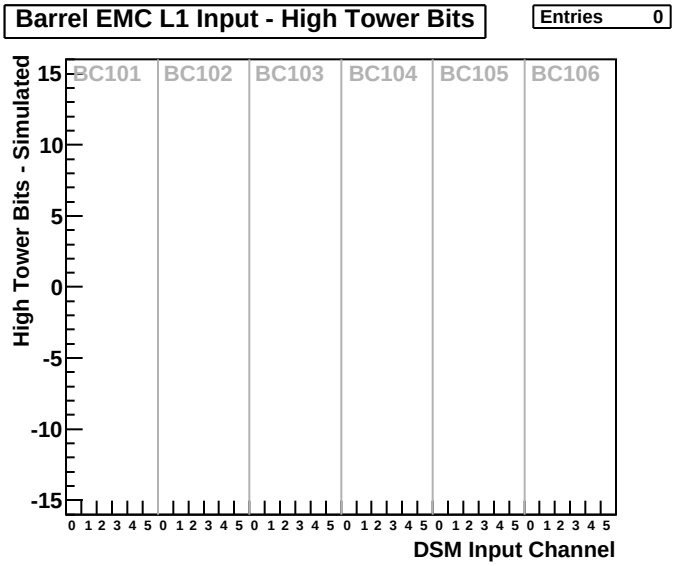

Barrel EMC L1 Input - Low Eta Sum
Entries 9983592
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

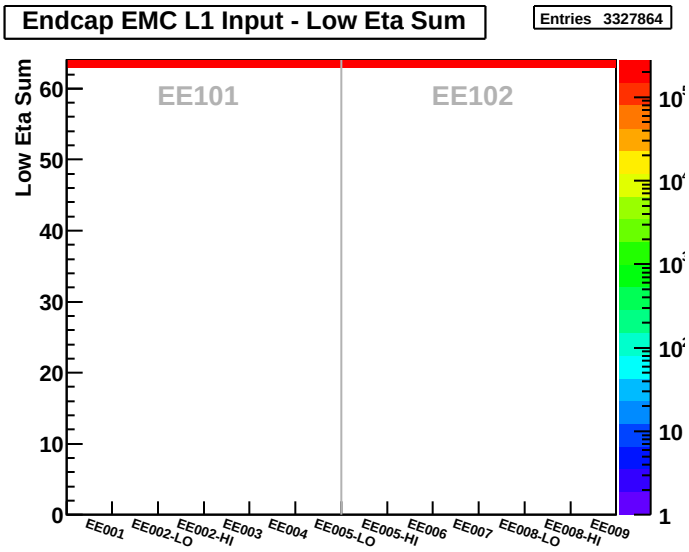

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

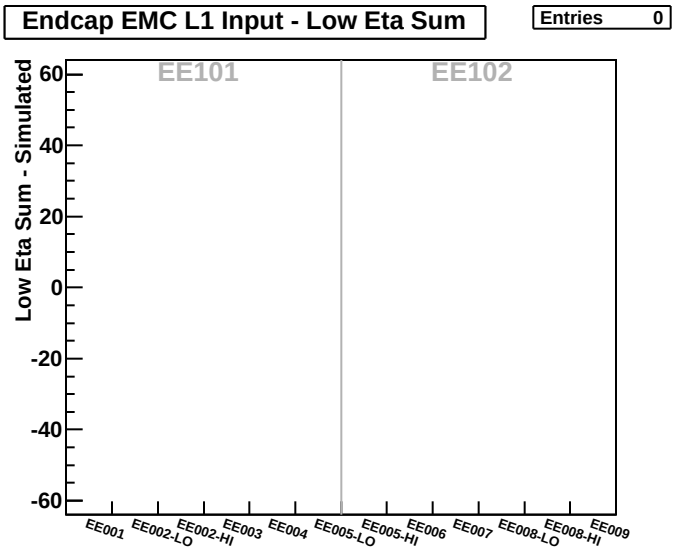

Barrel EMC L1 Input - High Eta Sum
Entries 9983592
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

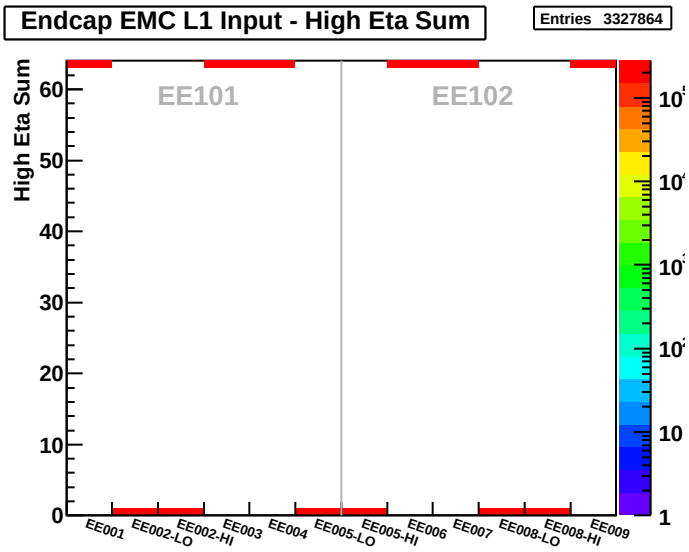

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

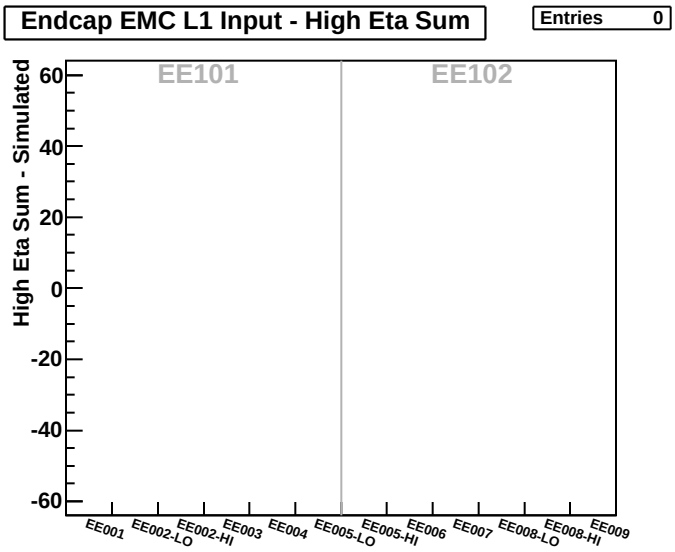

Barrel EMC L1 Input - High Tower Bits
Entries 9983592
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

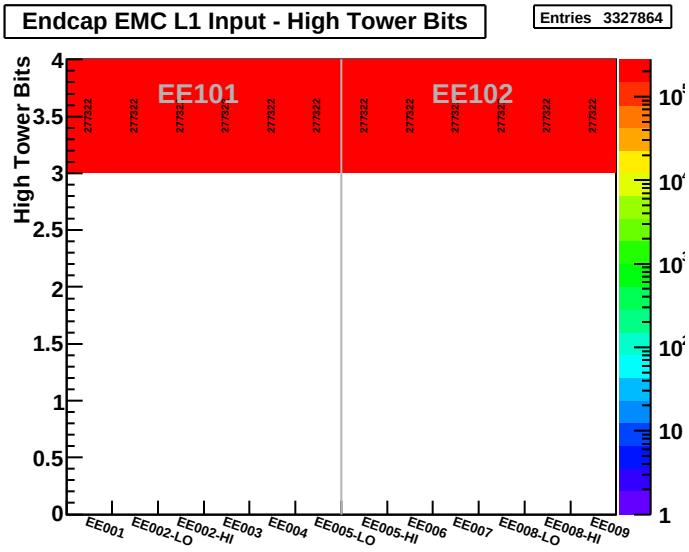

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

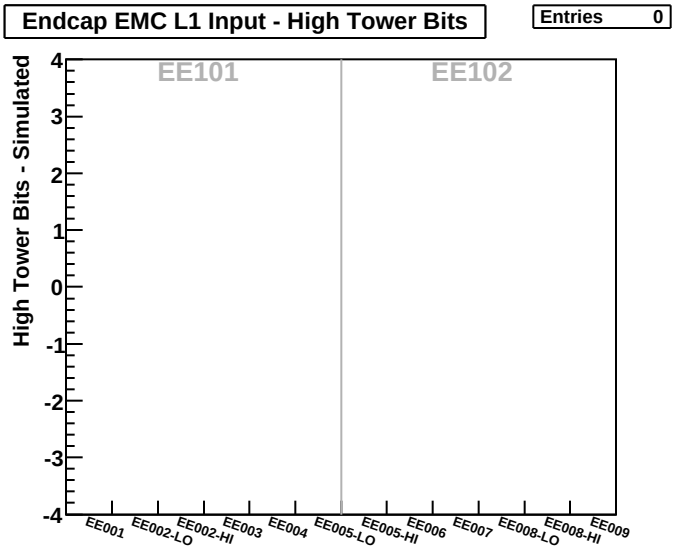

Endcap EMC L1 Input - Low Eta Sum
Entries 3327864
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

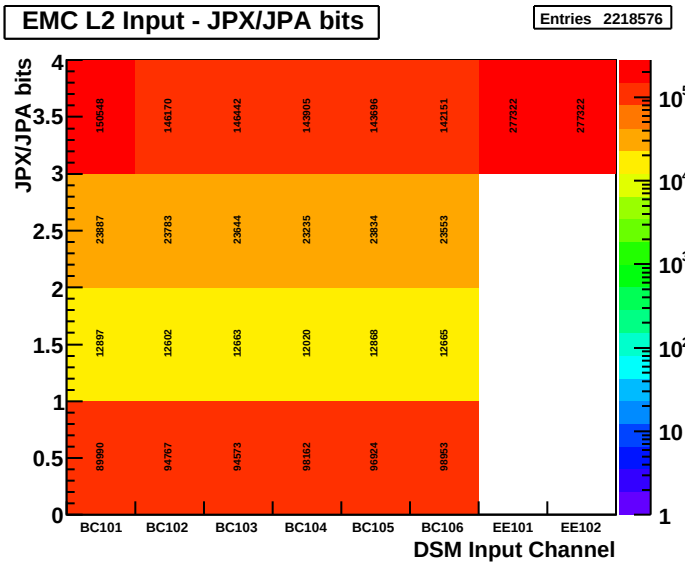

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

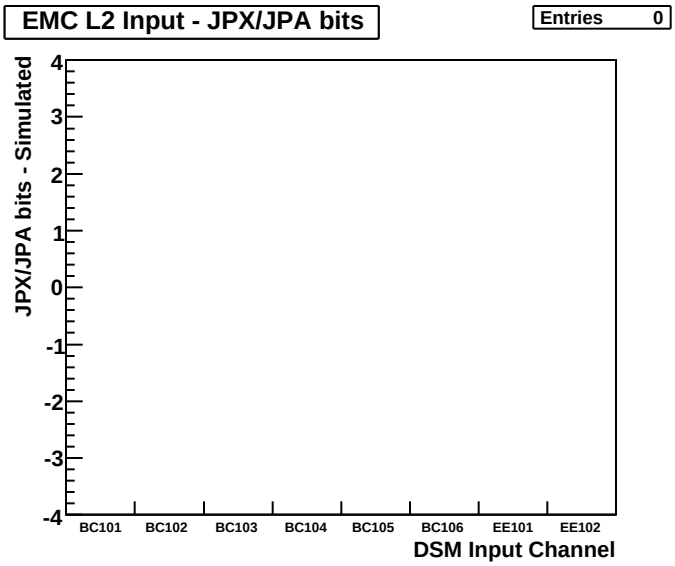

Endcap EMC L1 Input - High Eta Sum
Entries 3327864
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

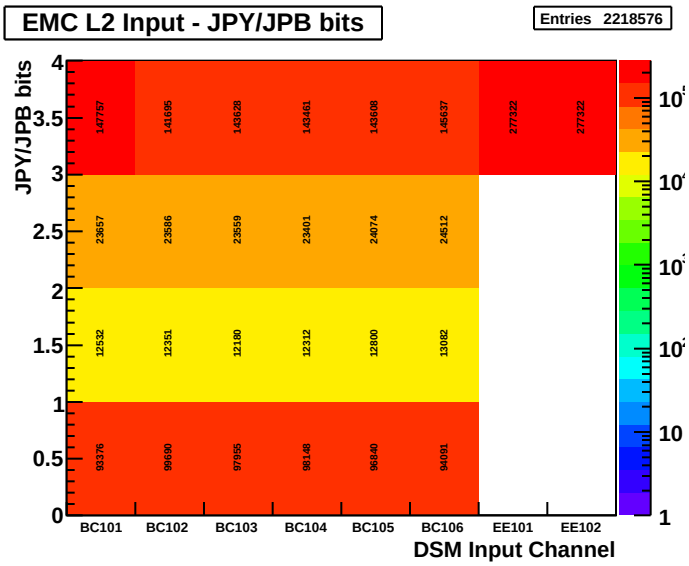

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

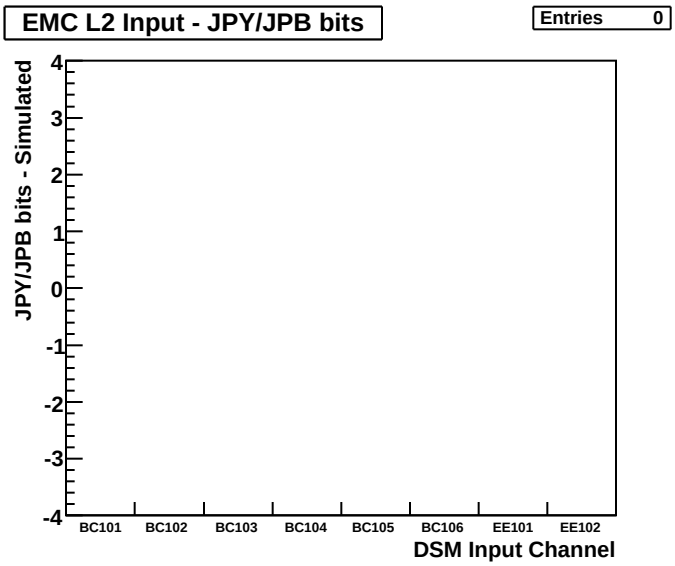

Endcap EMC L1 Input - High Tower Bits
Entries 3327864
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

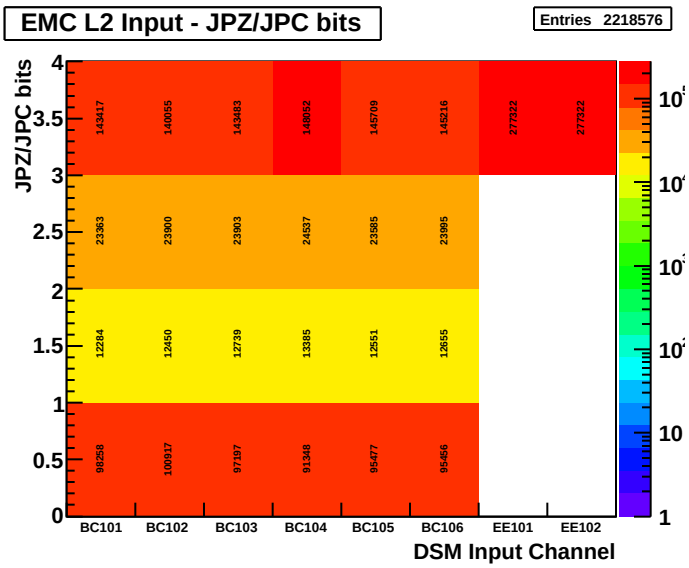

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

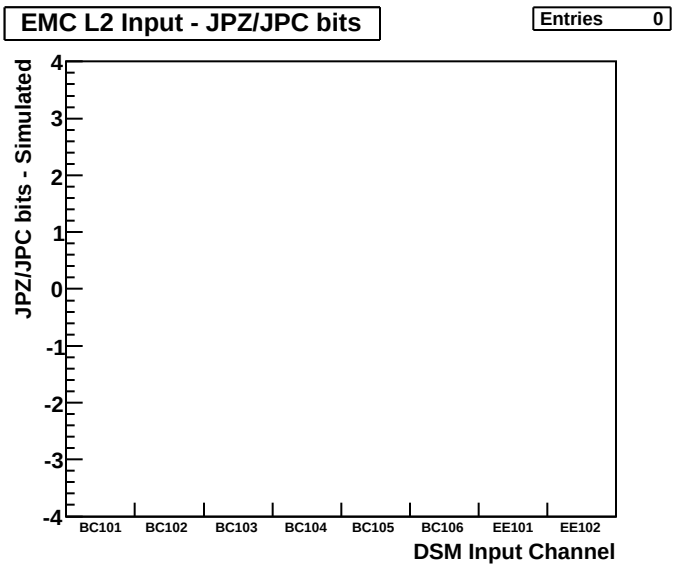

EMC L2 Input - JPX/JPA bits
Entries 2218576
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
150648 146170 146442 143805 143896 142151 27322 27322
23887 23783 23644 23235 23834 23553
12897 12602 12663 12020 12868 12665
89990 94767 94573 98162 96924 95953

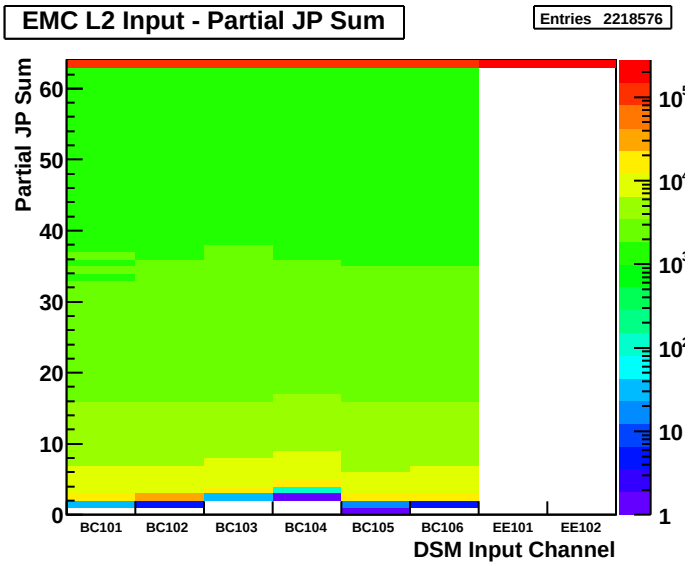

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

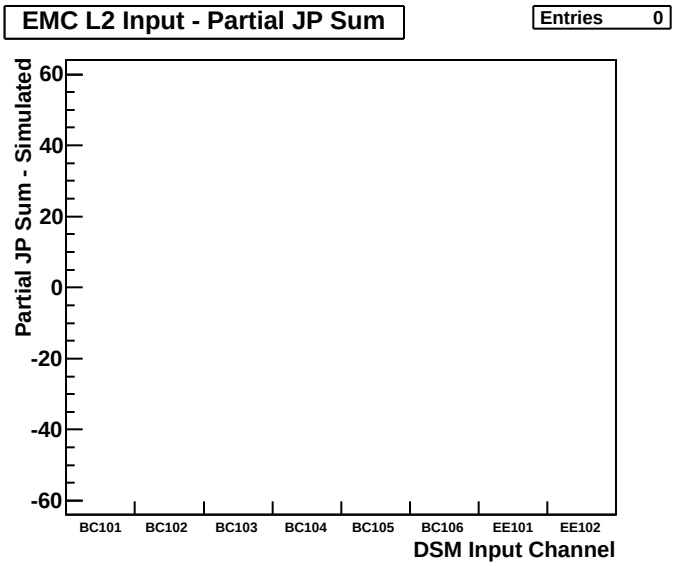

EMC L2 Input - JPY/JPB bits
Entries 2218576
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
147757 141695 143628 143461 143608 145637 27322 27322
23657 23566 23559 23401 24074 24512
12532 12351 12180 12312 12800 13082
93376 99690 97955 98148 96840 94091

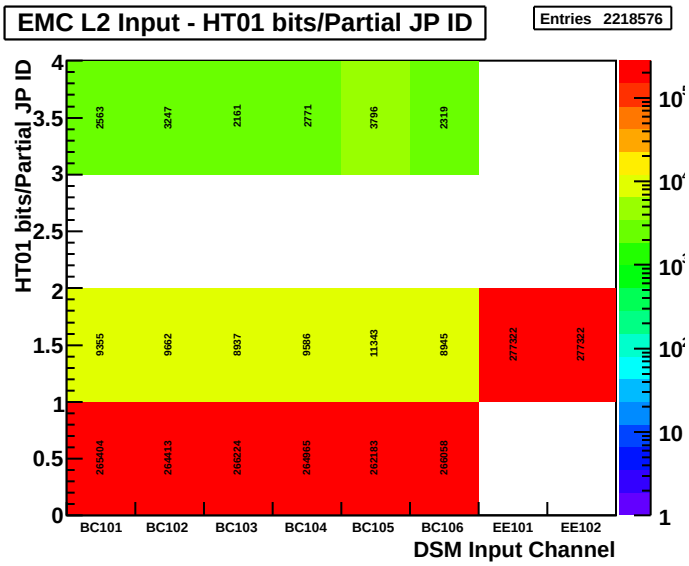

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

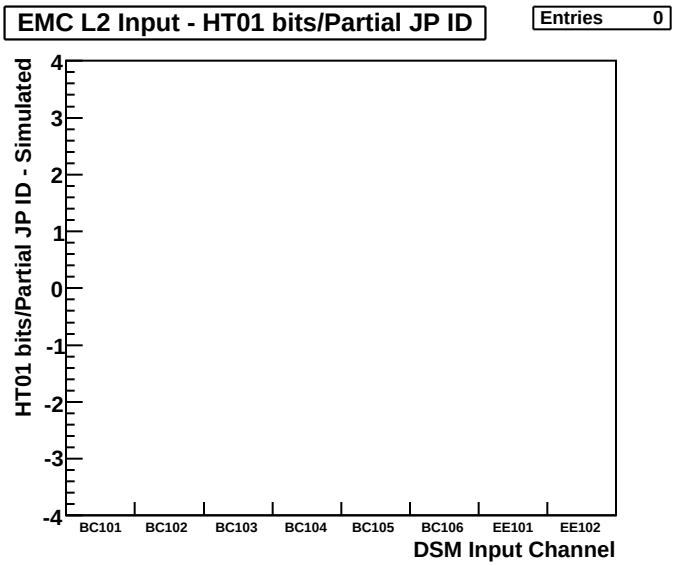

EMC L2 Input - JPZ/JPC bits
Entries 2218576
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
143417 140055 143483 140052 145709 145216 27322 27322
23363 23900 23903 24537 23585 23995
12284 12450 12739 13385 12551 12655
98258 100917 97197 91348 95477 95456

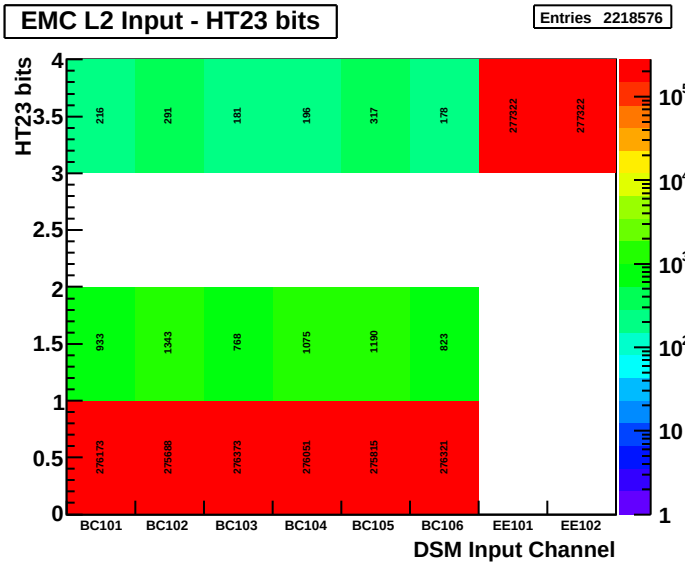

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

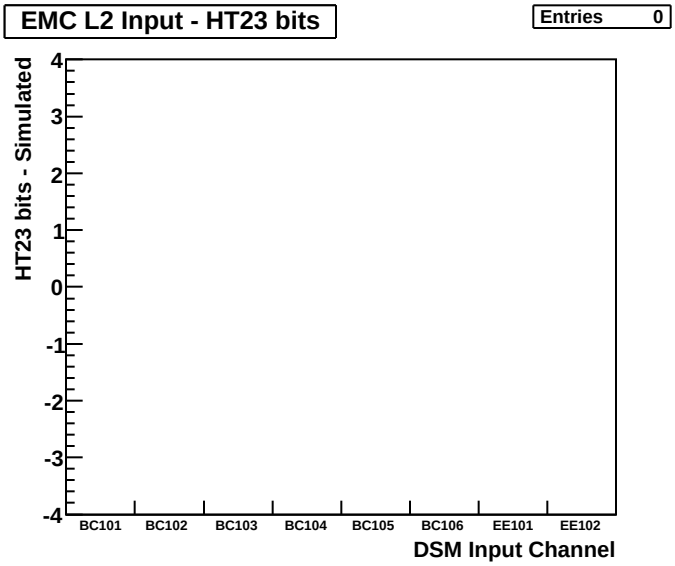

EMC L2 Input - Partial JP Sum
Entries 2218576
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

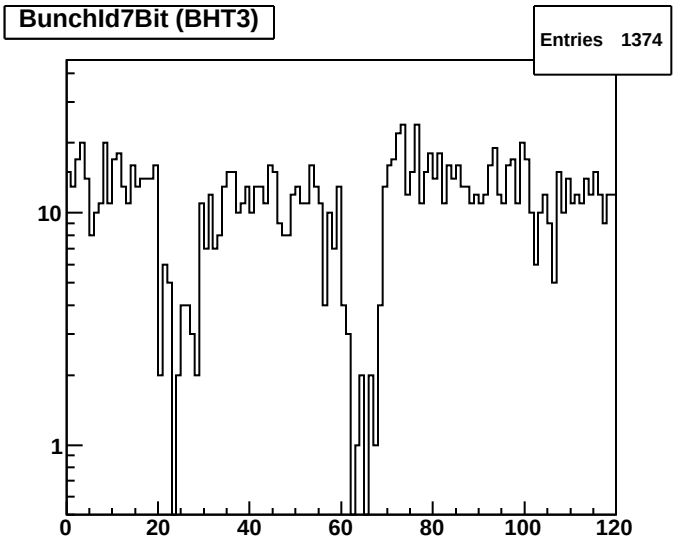

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

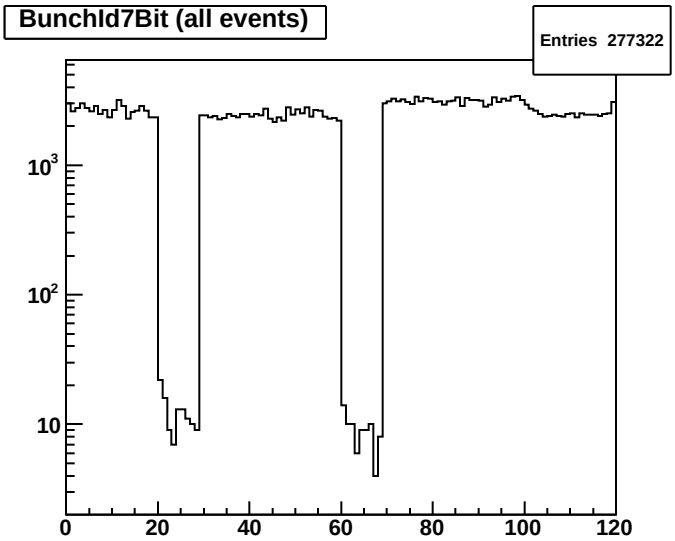

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2218576
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

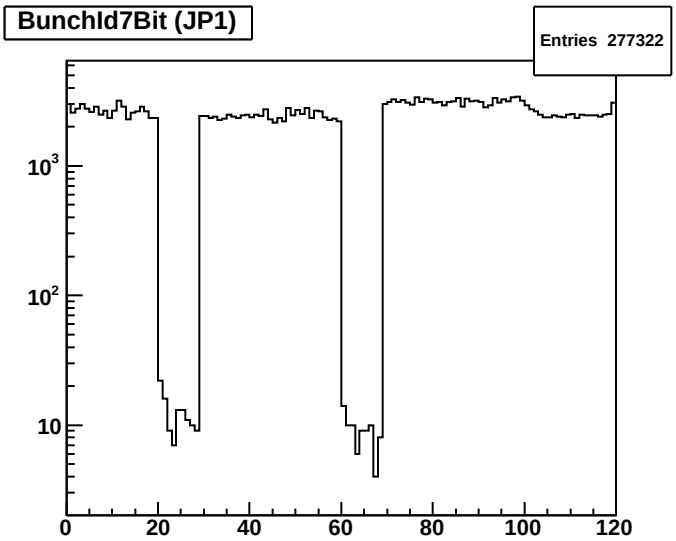

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

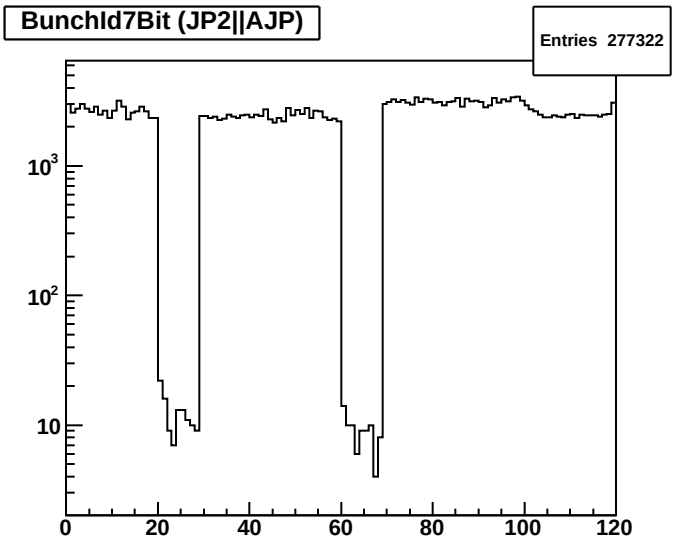

EMC L2 Input - HT23 bits
Entries 2218576
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

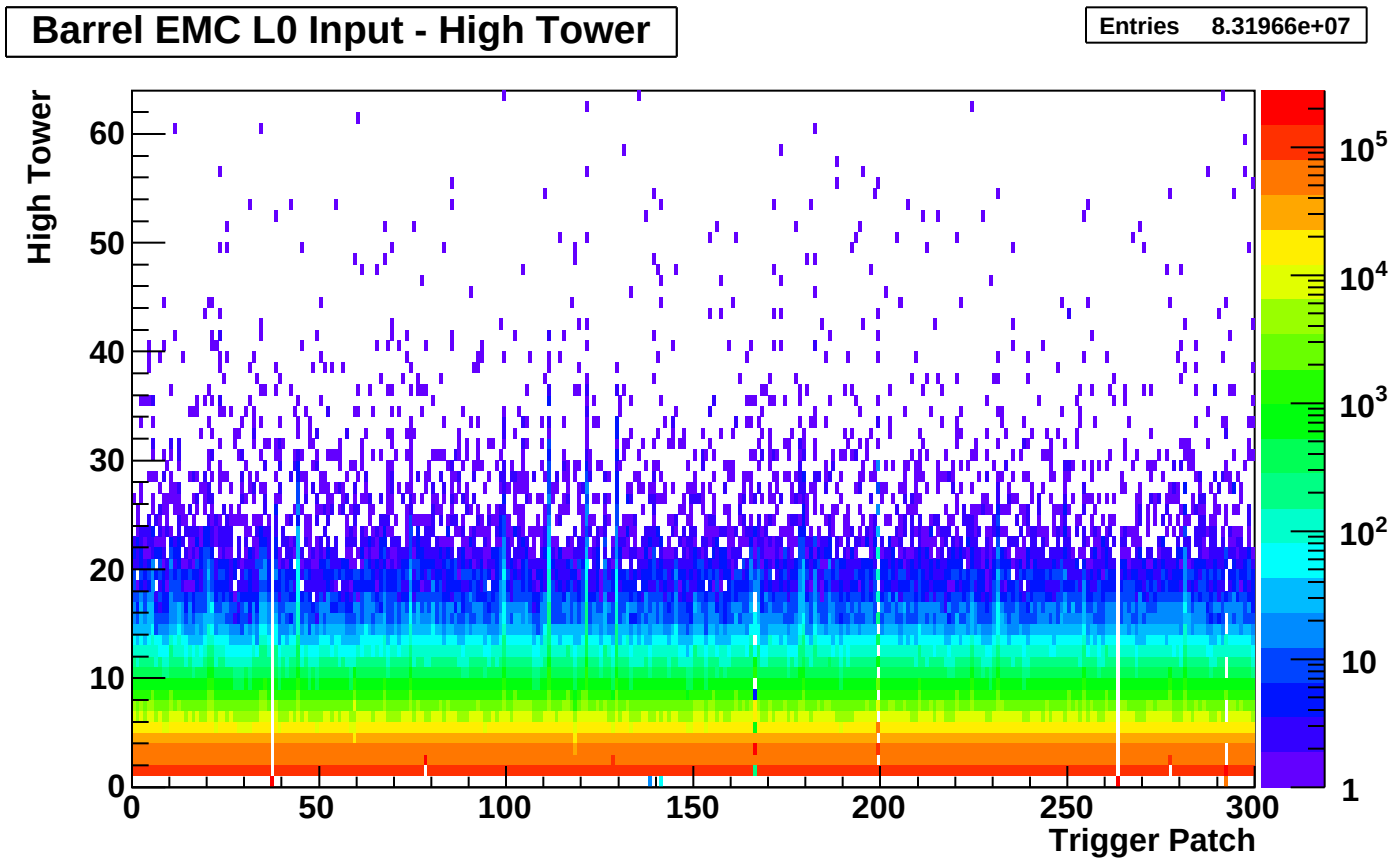

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

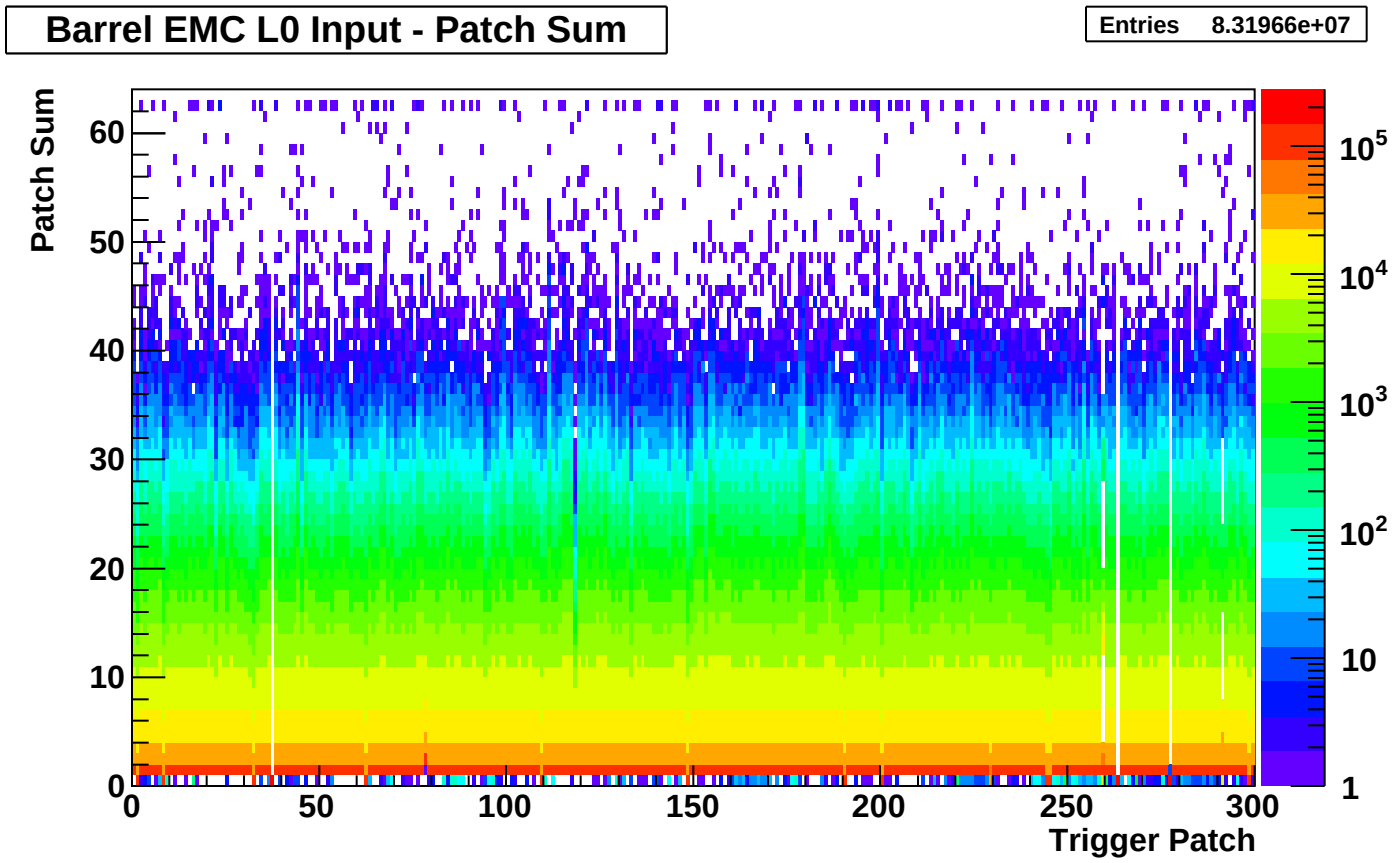

BunchId7Bit (BHT3)
Entries 1374
10
1
0
20
40
60
80
100
120

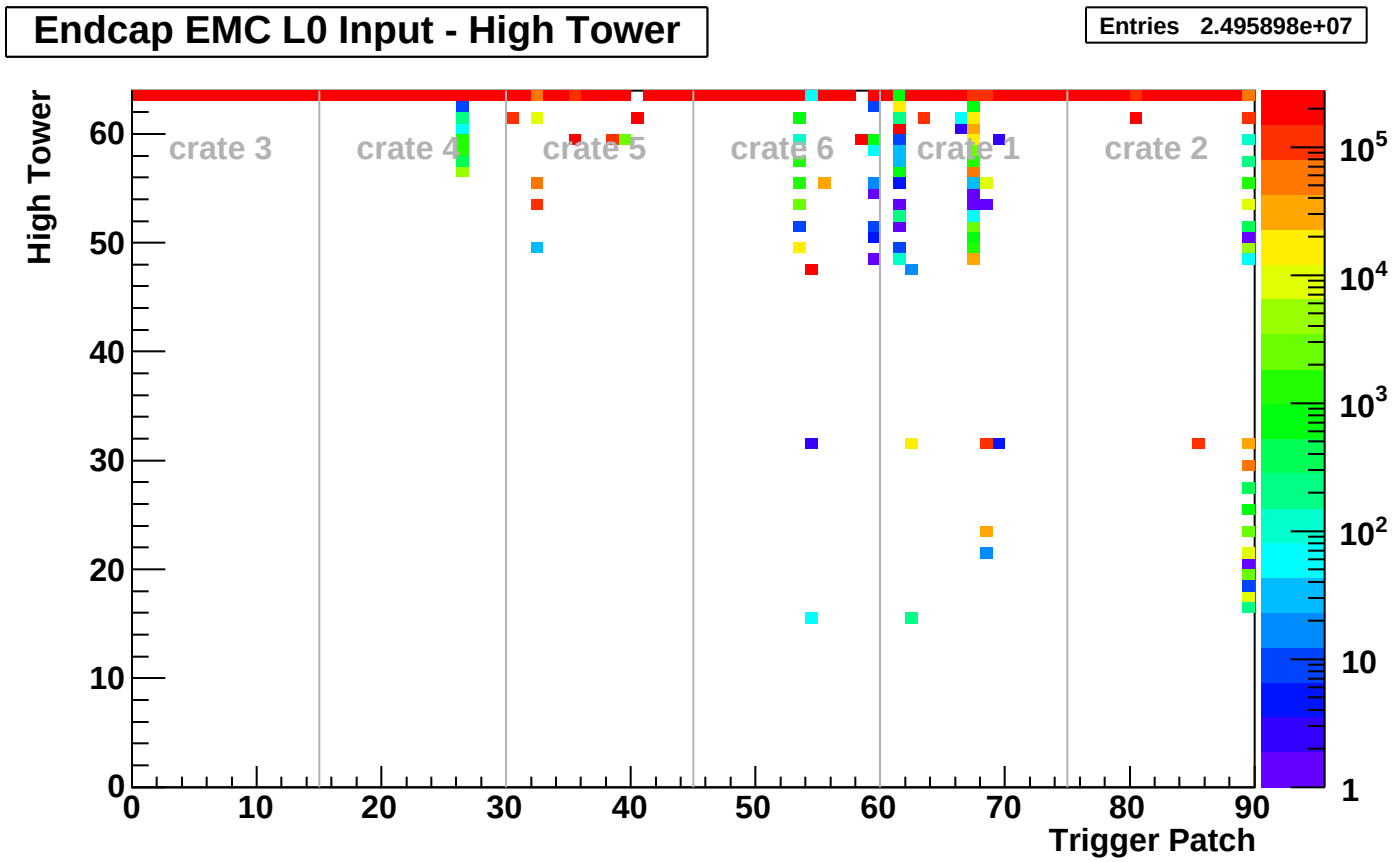

BunchId7Bit (all events)
Entries 277322
10^3
10^2
10
0
20
40
60
80
100
120

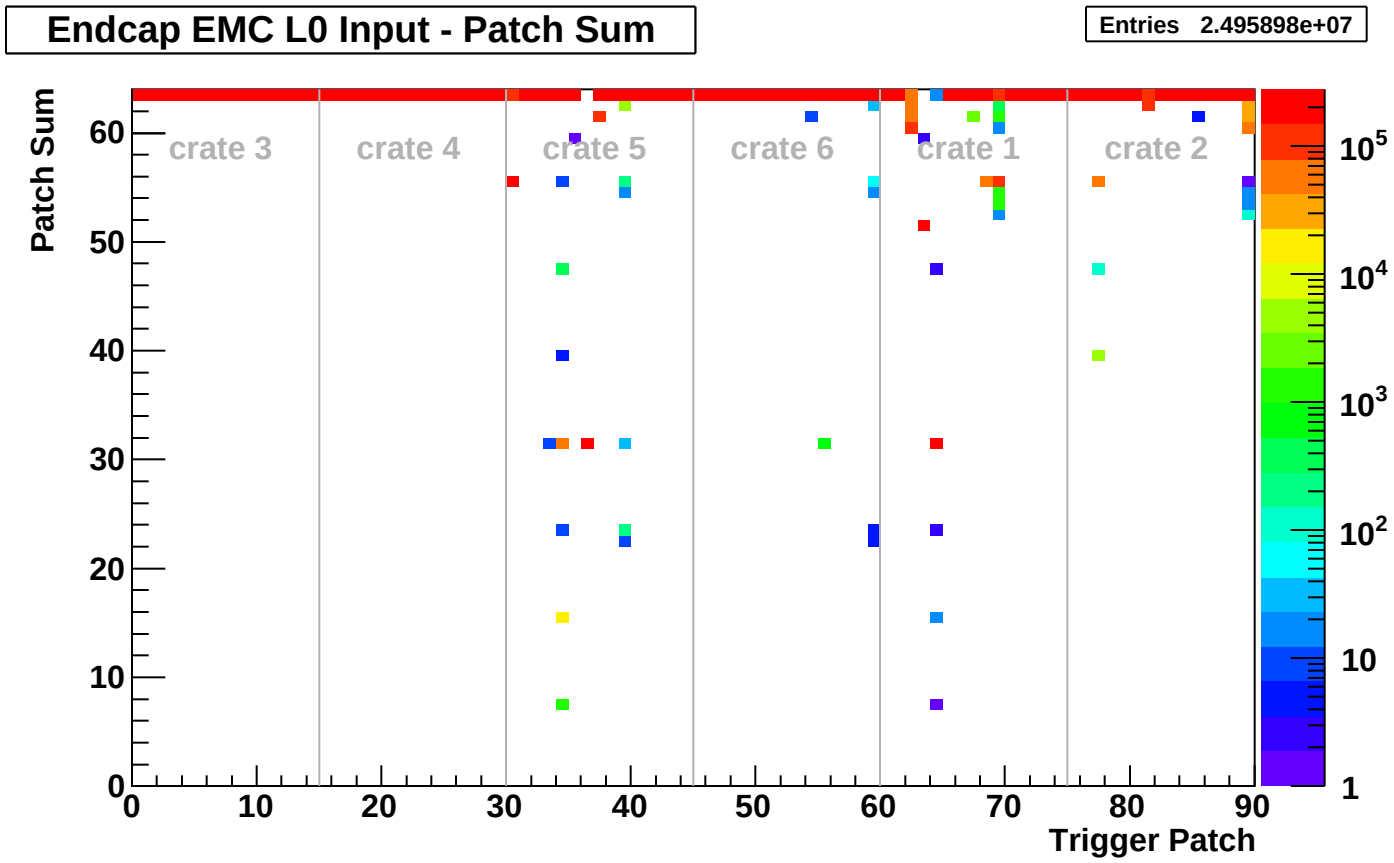

BunchId7Bit (JP1)
Entries 277322
10^3
10^2
10
0
20
40
60
80
100
120

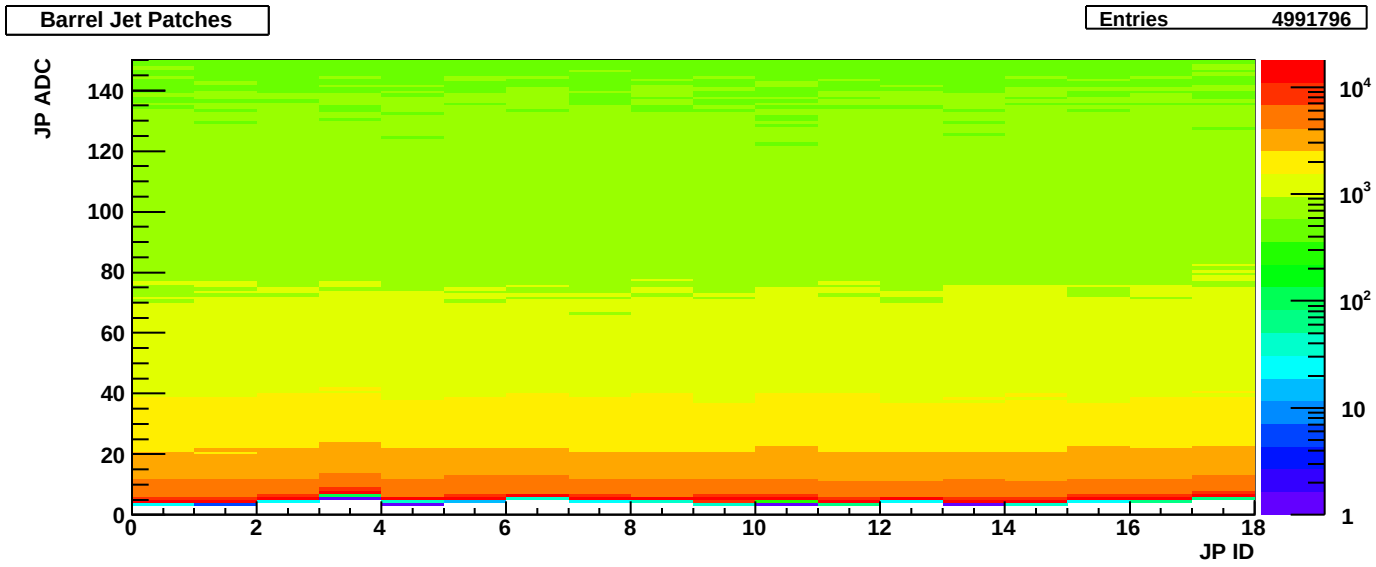

BunchId7Bit (JP2||AJP)
Entries 277322
10^3
10^2
10
0
20
40
60
80
100
120

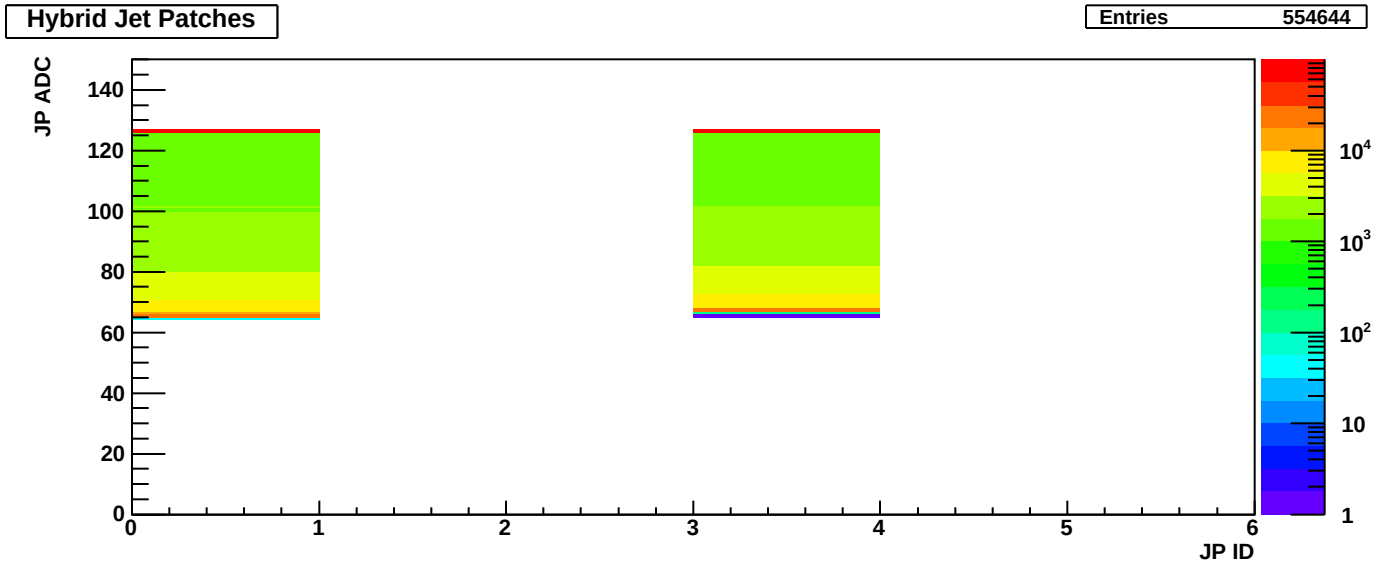

Barrel EMC L0 Input - High Tower
Entries 8.31966e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

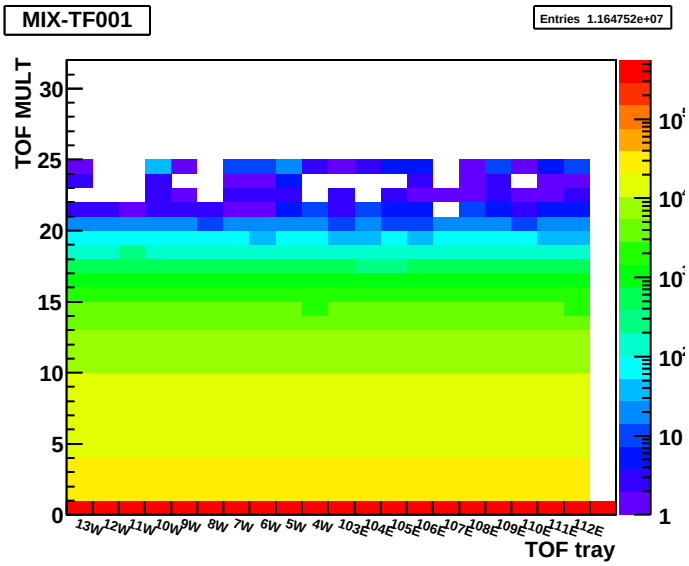

Barrel EMC L0 Input - Patch Sum
Entries 8.31966e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

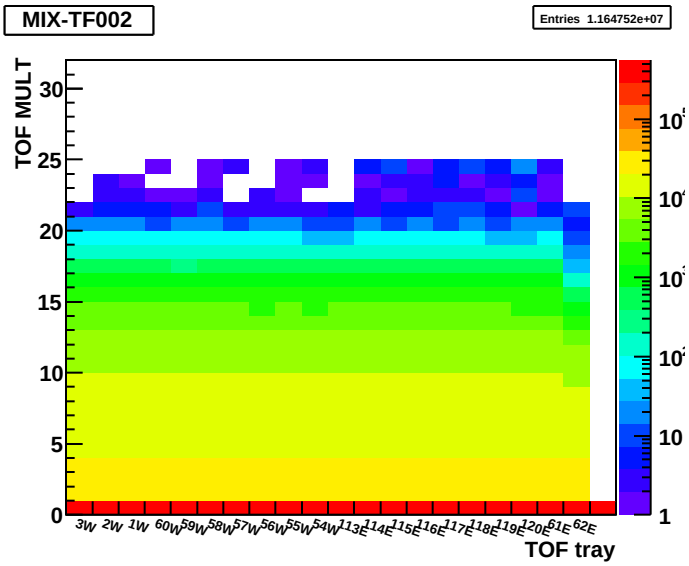

Endcap EMC L0 Input - High Tower
Entries 2.495898e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

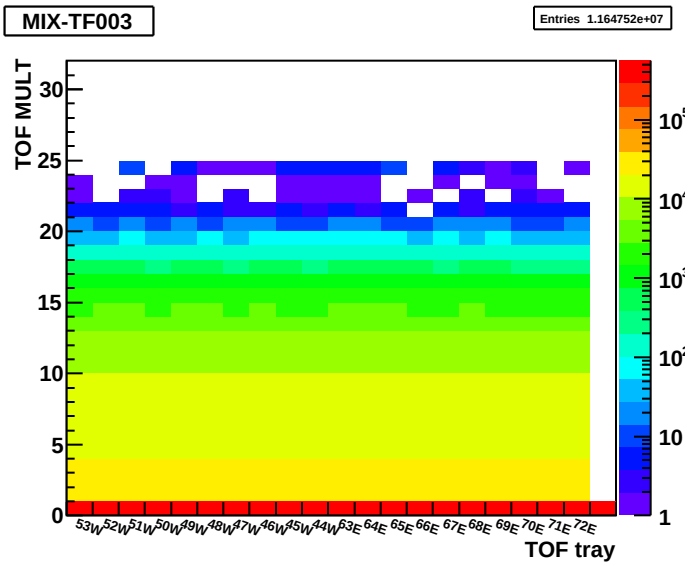

Endcap EMC L0 Input - Patch Sum
Entries 2.495898e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

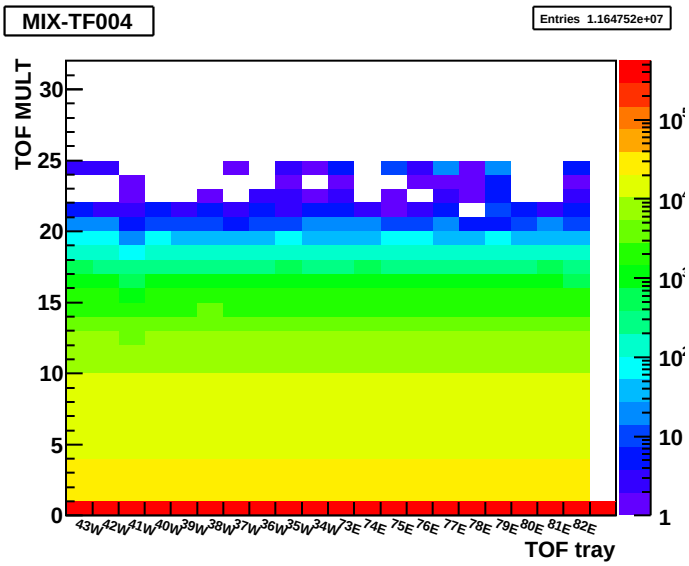

Barrel Jet Patches
Entries 4991796
JP ADC
JP ID

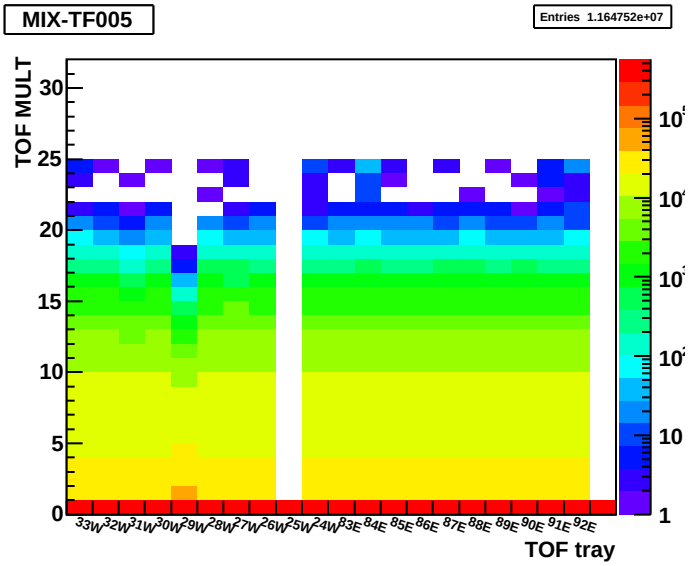

Hybrid Jet Patches
Entries 554644
JP ADC
JP ID

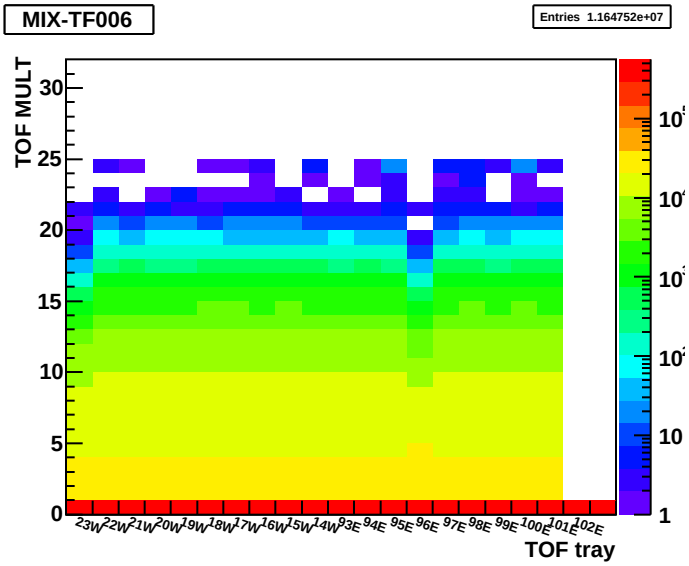

MIX-TF001
Entries 1.164752e+07
TOF MULT
TOF tray

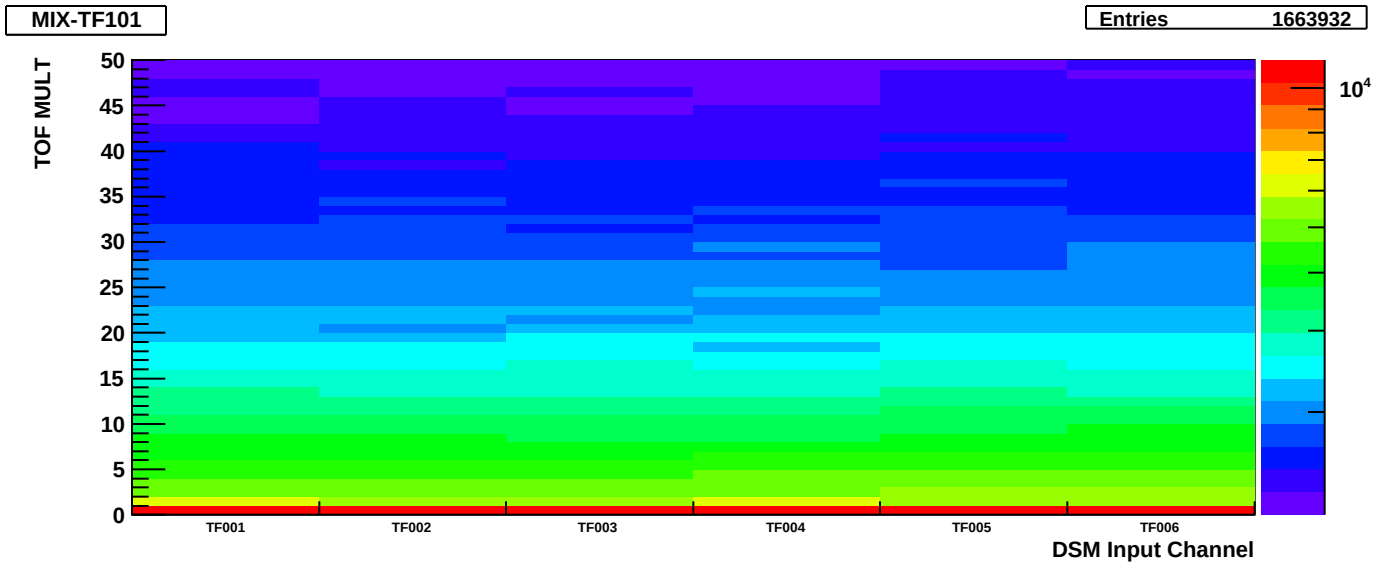

MIX-TF002
Entries 1.164752e+07
TOF MULT
TOF tray

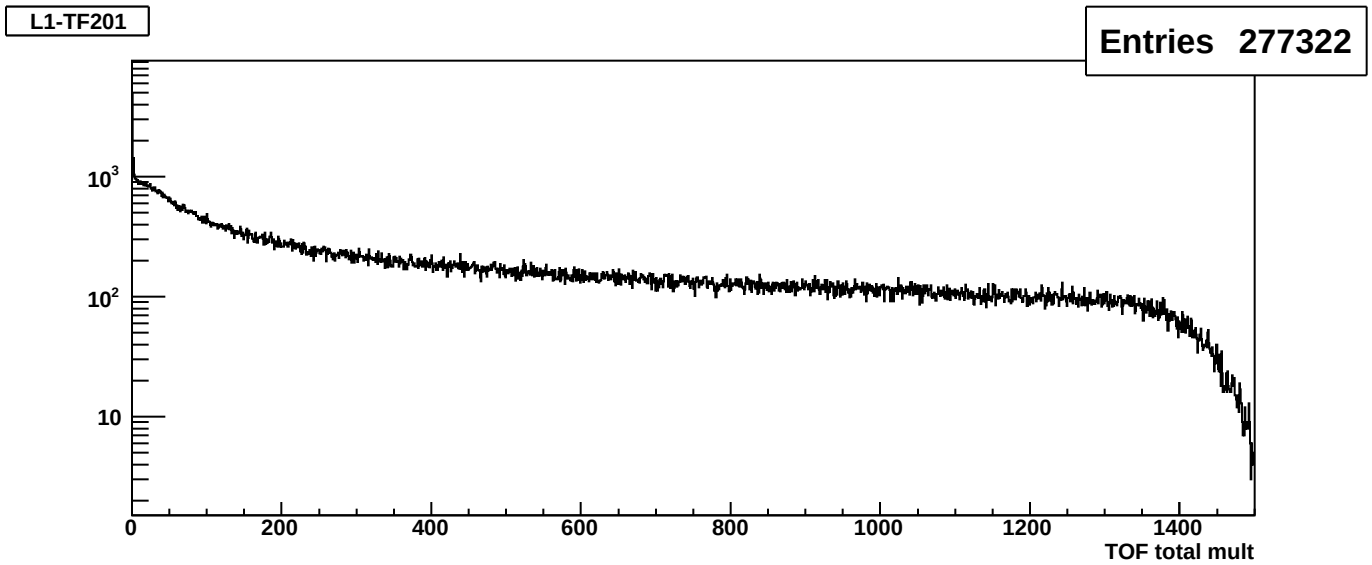

MIX-TF003
Entries 1.164752e+07
TOF MULT
TOF tray

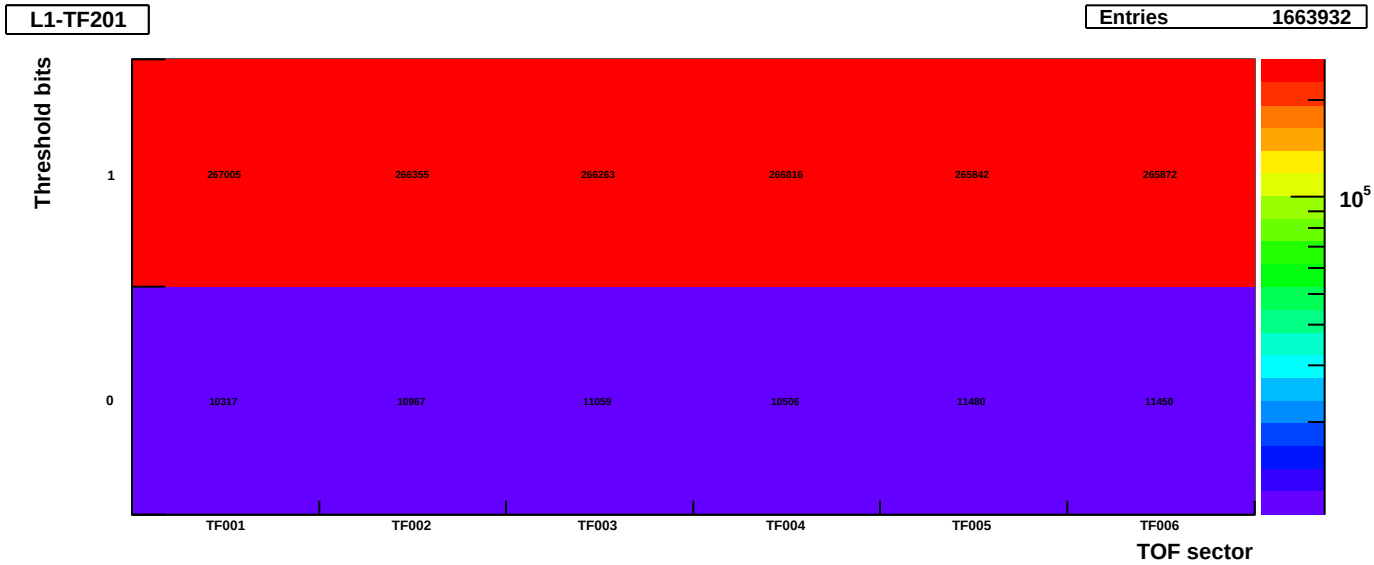

MIX-TF004
Entries 1.164752e+07
TOF MULT
TOF tray

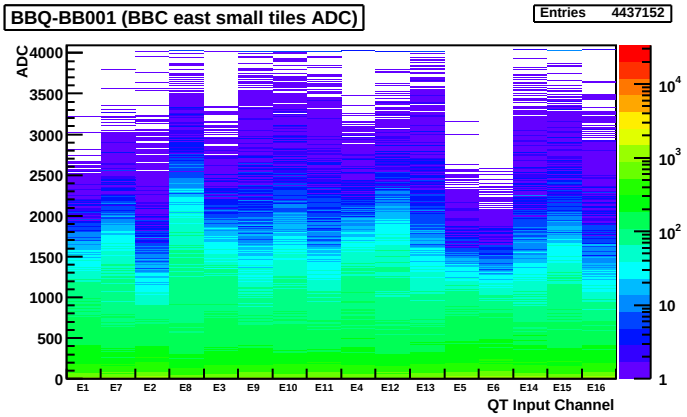

MIX-TF005
Entries 1.164752e+07
TOF MULT
TOF tray

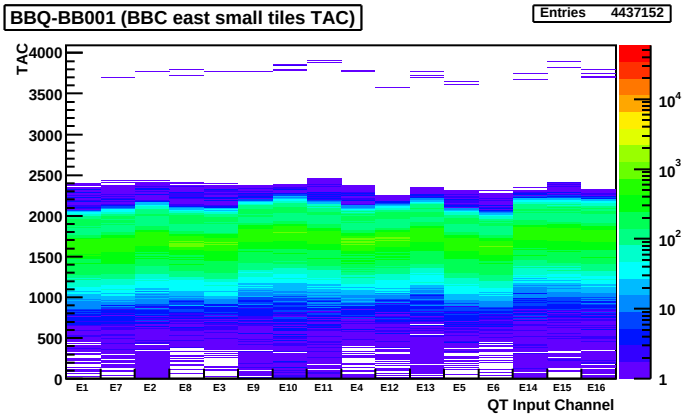

MIX-TF006
Entries 1.164752e+07
TOF MULT
TOF tray

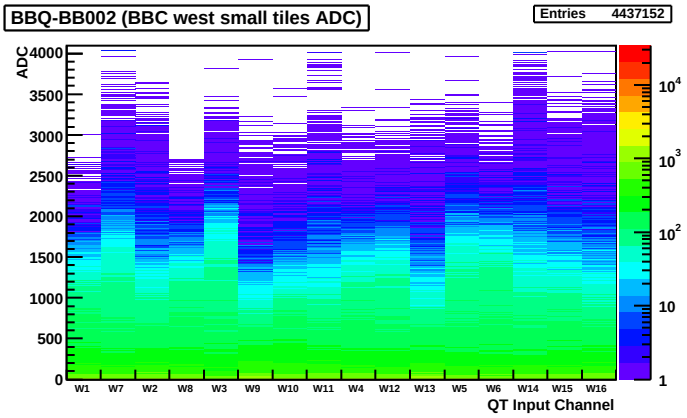

MIX-TF101
Entries 1663932
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

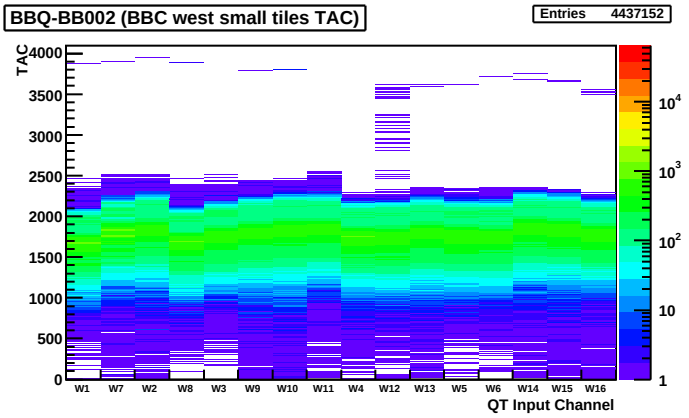

L1-TF201
Entries 277322
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

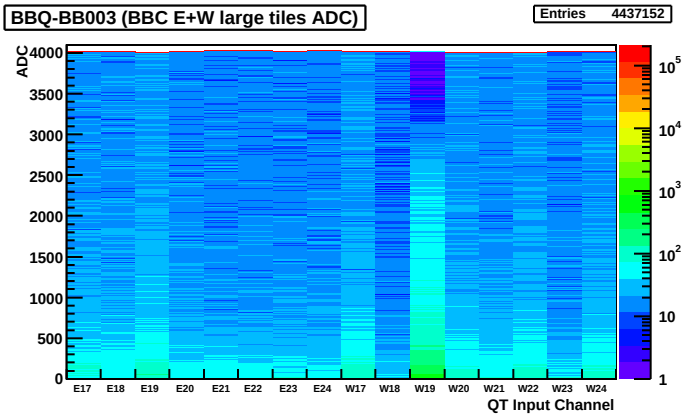

L1-TF201
Entries 1663932
Threshold bits
1
0
267005
266355
266263
266816
265842
265872
10317
10967
11059
10506
11480
11450
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

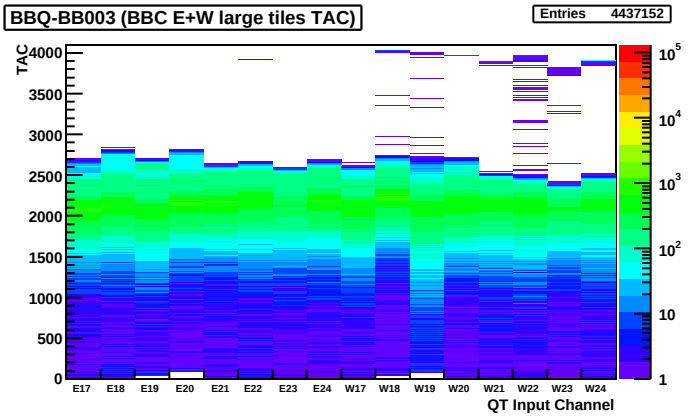

BBQ-BB001 (BBC east small tiles ADC)
Entries 4437152
ADC
QT Input Channel

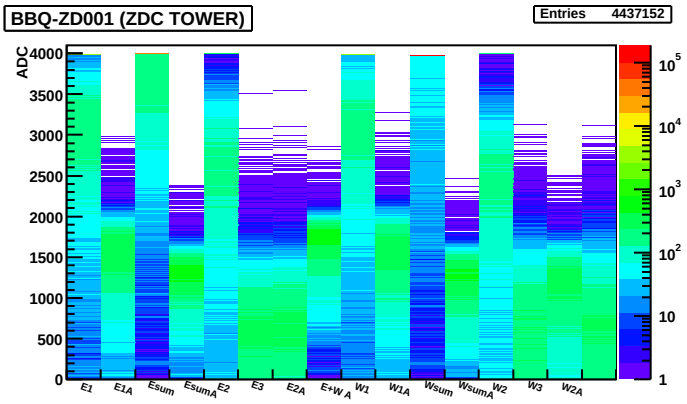

BBQ-BB001 (BBC east small tiles TAC)
Entries 4437152
TAC
QT Input Channel

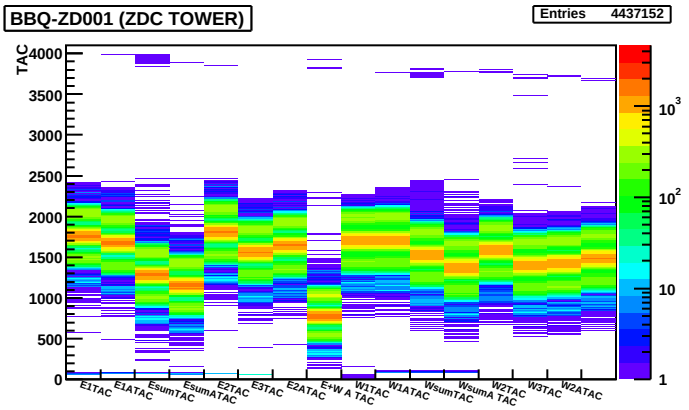

BBQ-BB002 (BBC west small tiles ADC)
Entries 4437152
ADC
QT Input Channel

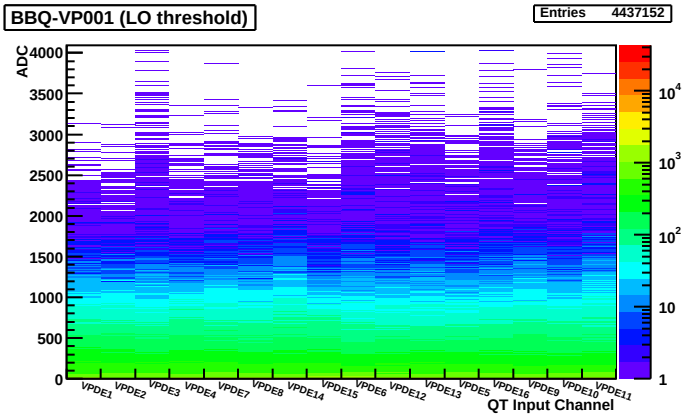

BBQ-BB002 (BBC west small tiles TAC)
Entries 4437152
TAC
QT Input Channel

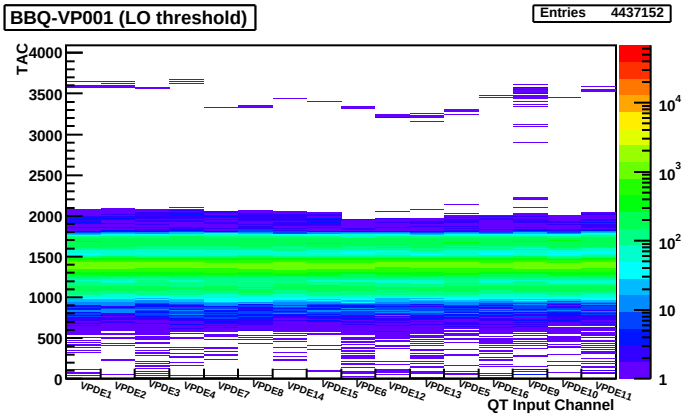

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4437152
ADC
QT Input Channel

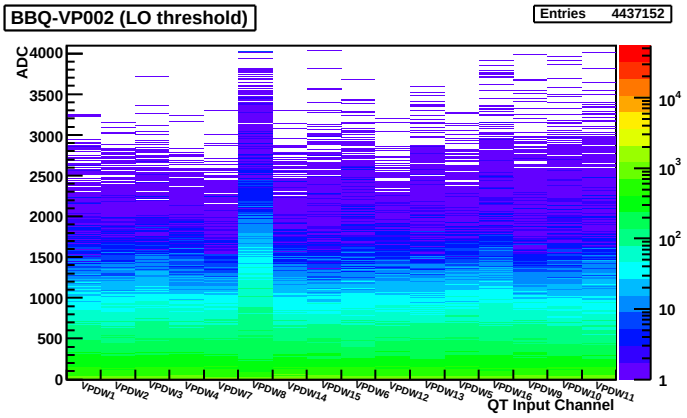

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4437152
TAC
QT Input Channel

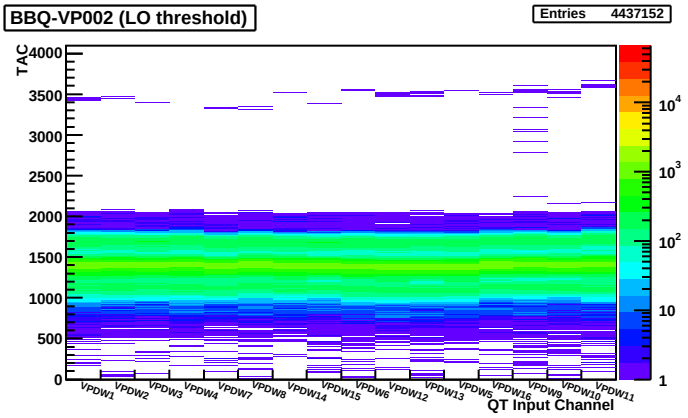

BBQ-ZD001 (ZDC TOWER)
Entries 4437152
ADC

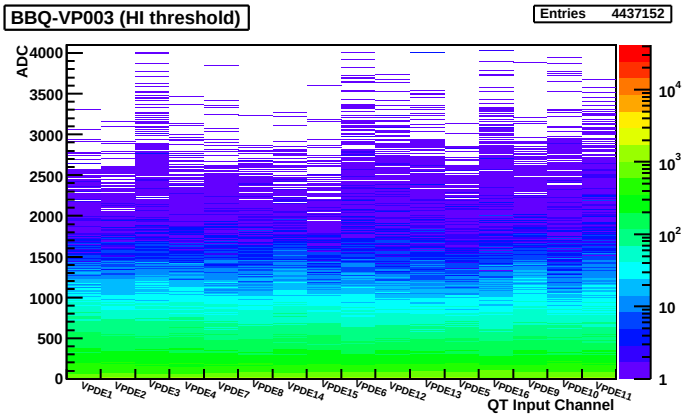

BBQ-ZD001 (ZDC TOWER)
Entries 4437152
TAC

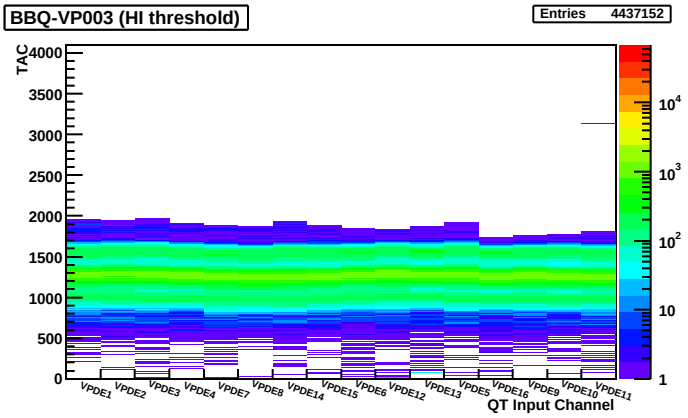

BBQ-VP001 (LO threshold)
Entries 4437152
ADC
QT Input Channel

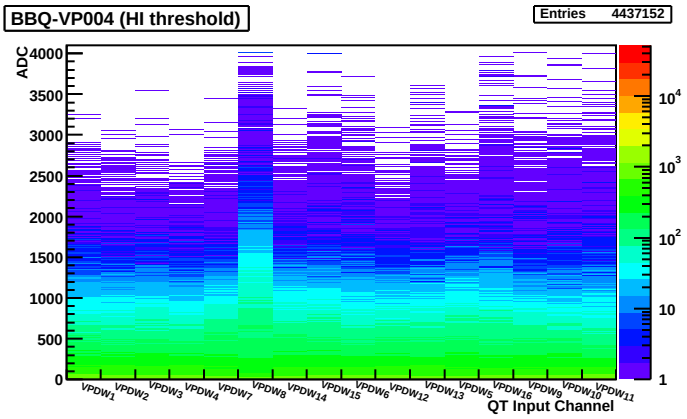

BBQ-VP001 (LO threshold)
Entries 4437152
TAC
QT Input Channel

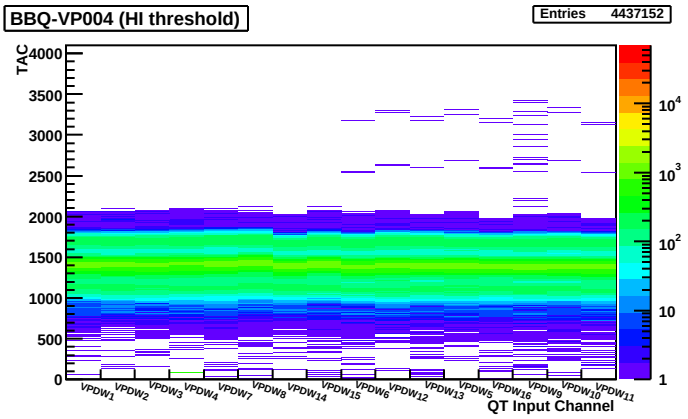

BBQ-VP002 (LO threshold)
Entries 4437152
ADC
QT Input Channel

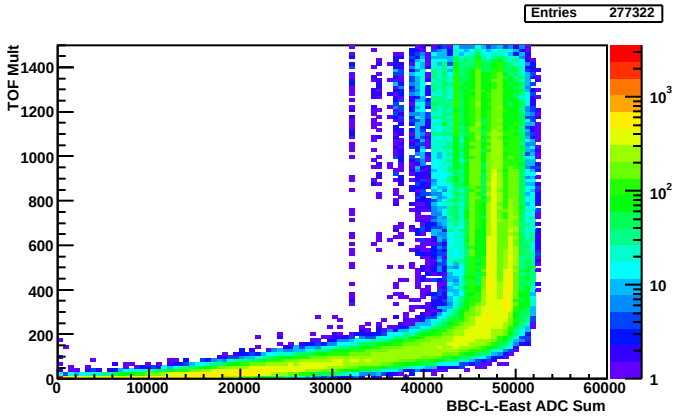

BBQ-VP002 (LO threshold)
Entries 4437152
TAC
QT Input Channel

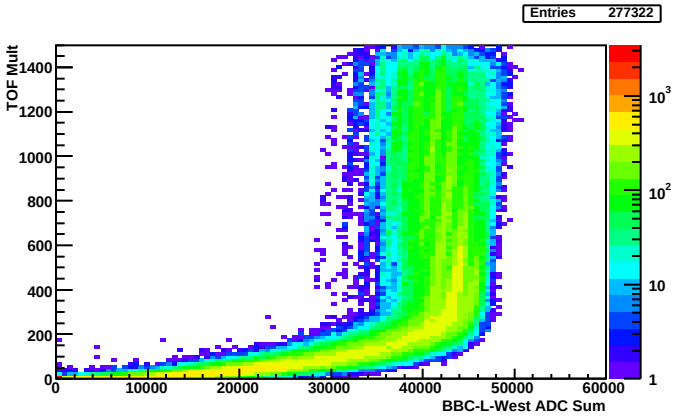

BBQ-VP003 (HI threshold)
Entries 4437152
ADC
QT Input Channel

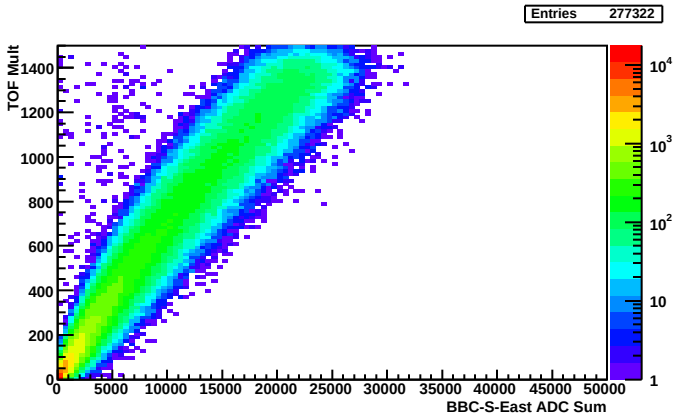

BBQ-VP003 (HI threshold)
Entries 4437152
TAC
QT Input Channel

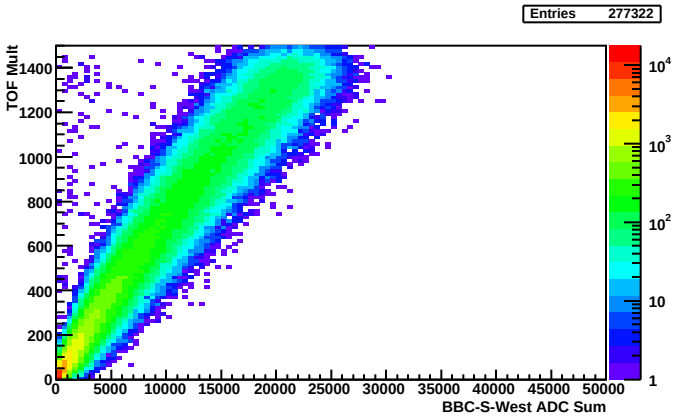

BBQ-VP004 (HI threshold)
Entries 4437152
ADC
QT Input Channel

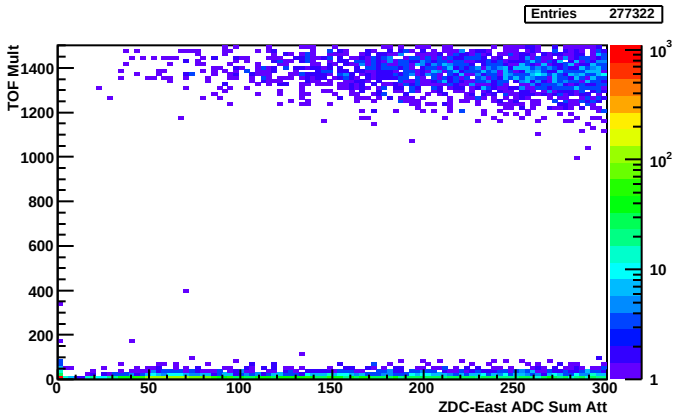

BBQ-VP004 (HI threshold)
Entries 4437152
TAC
QT Input Channel

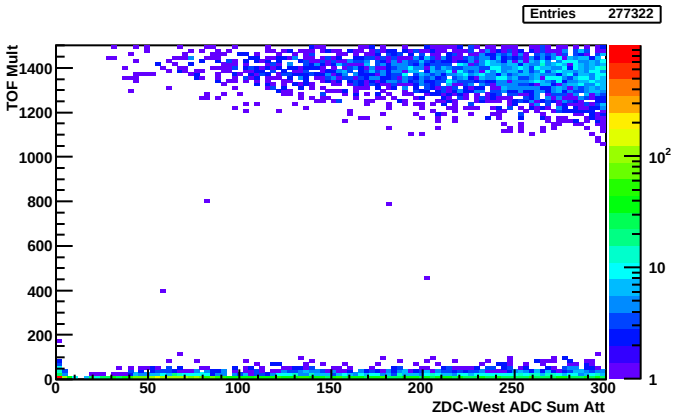

Entries 277322
TOF Mult
BBC-L-East ADC Sum

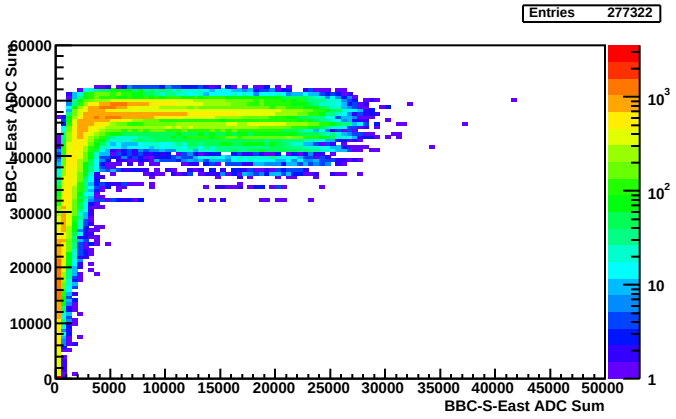

Entries 277322
TOF Mult
BBC-L-West ADC Sum

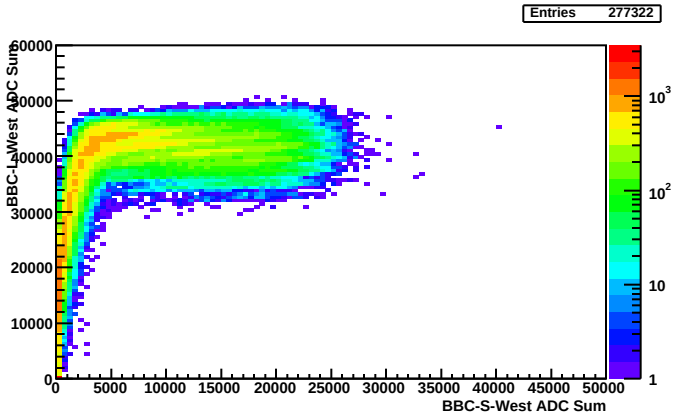

Entries 277322
TOF Mult
BBC-S-East ADC Sum

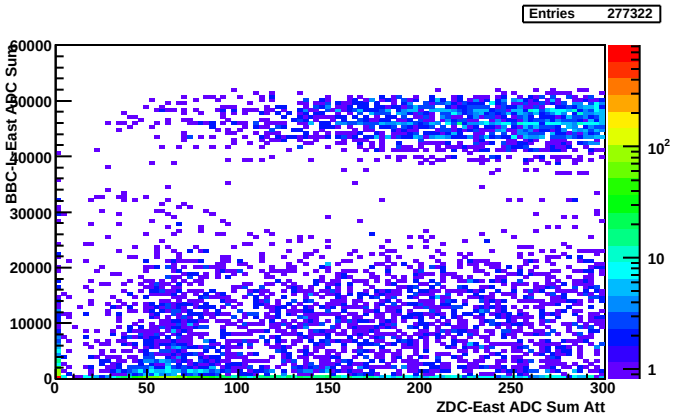

Entries 277322
TOF Mult
BBC-S-West ADC Sum

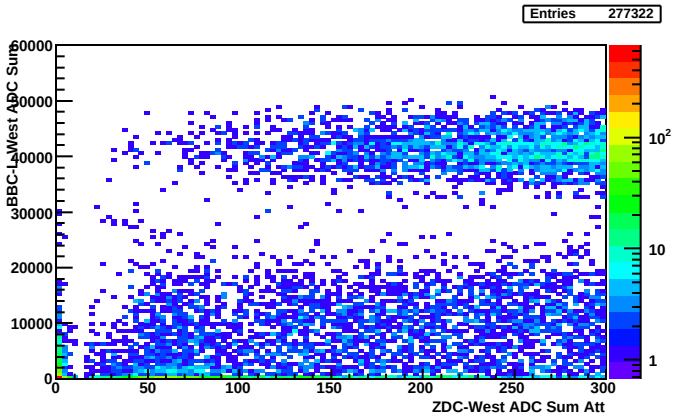

Entries 277322
TOF Mult
ZDC-East ADC Sum Att


Entries 277322
TOF Mult
ZDC-West ADC Sum Att


Entries 277322
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 277322
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 277322
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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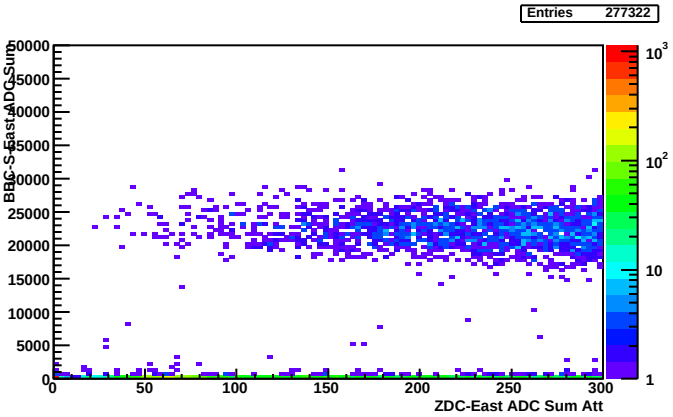
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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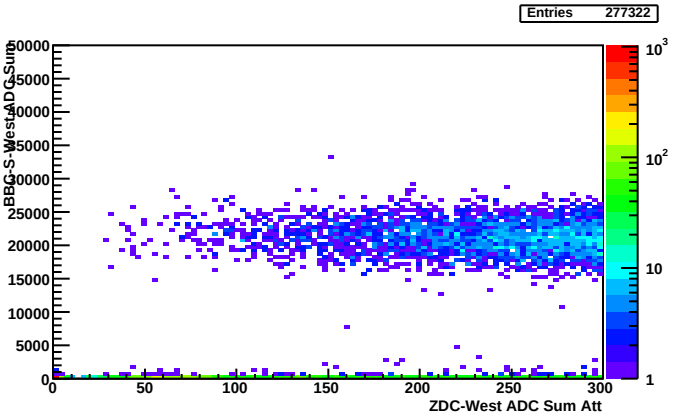
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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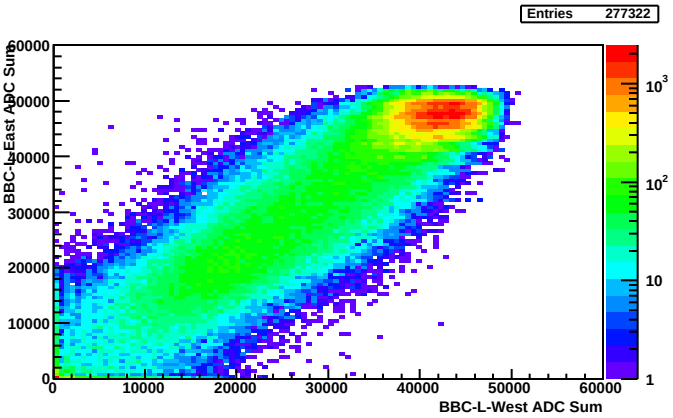
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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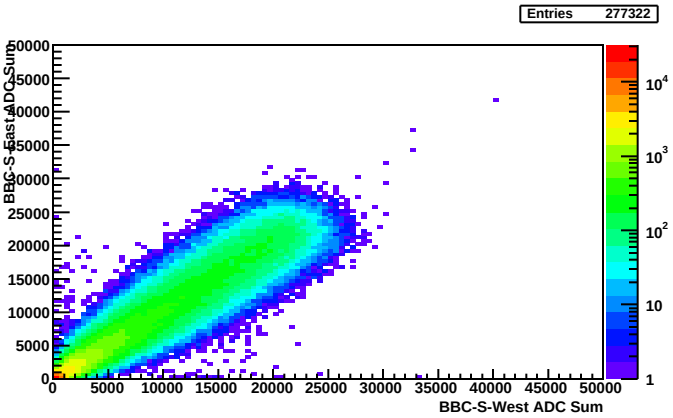
BBC-L-East ADC Sum
BBC-L-West ADC Sum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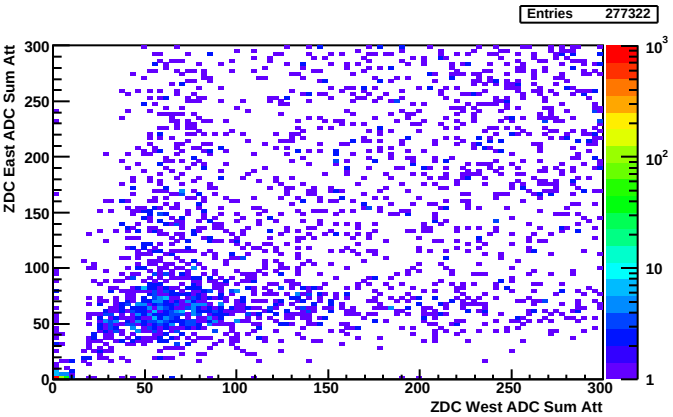
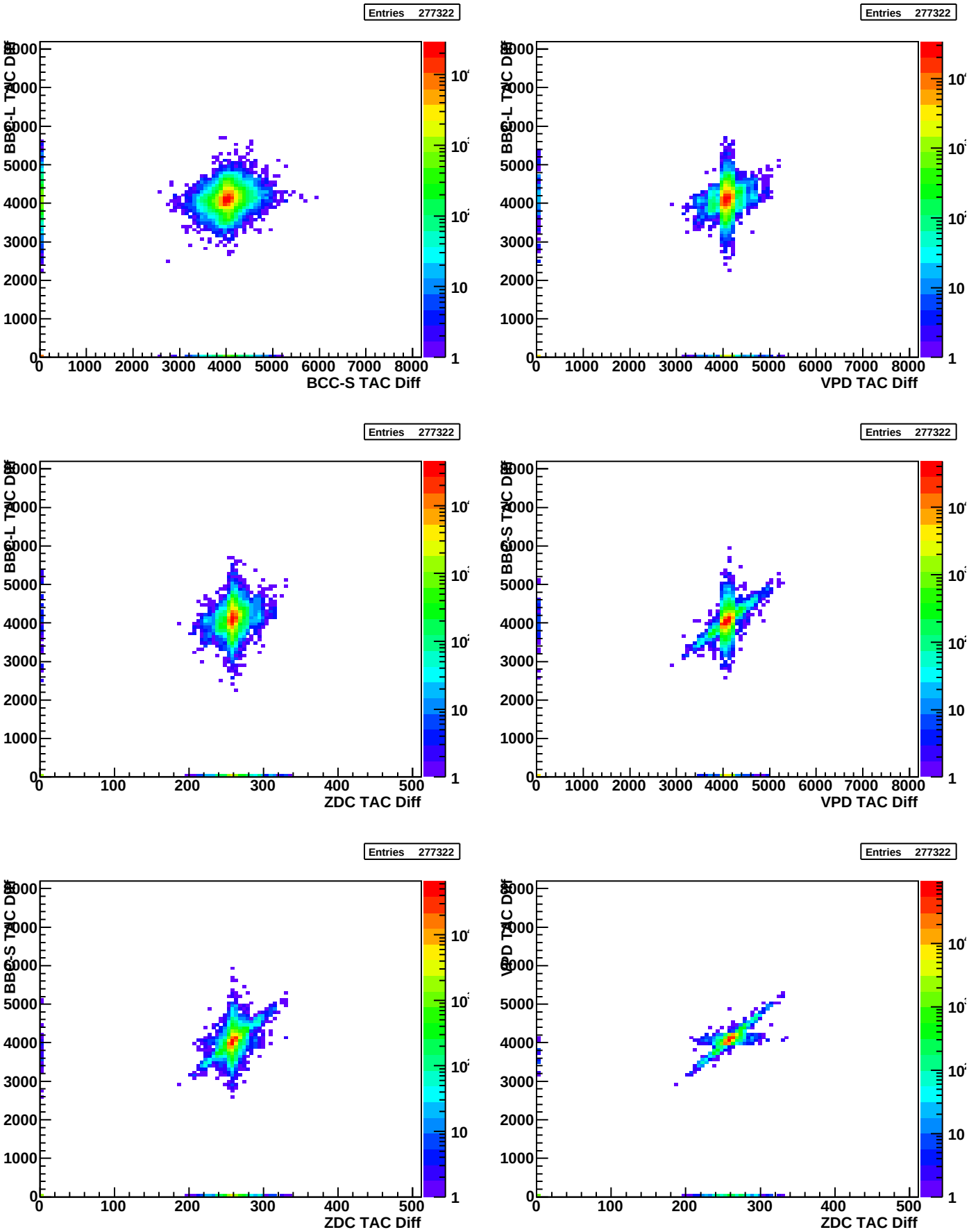
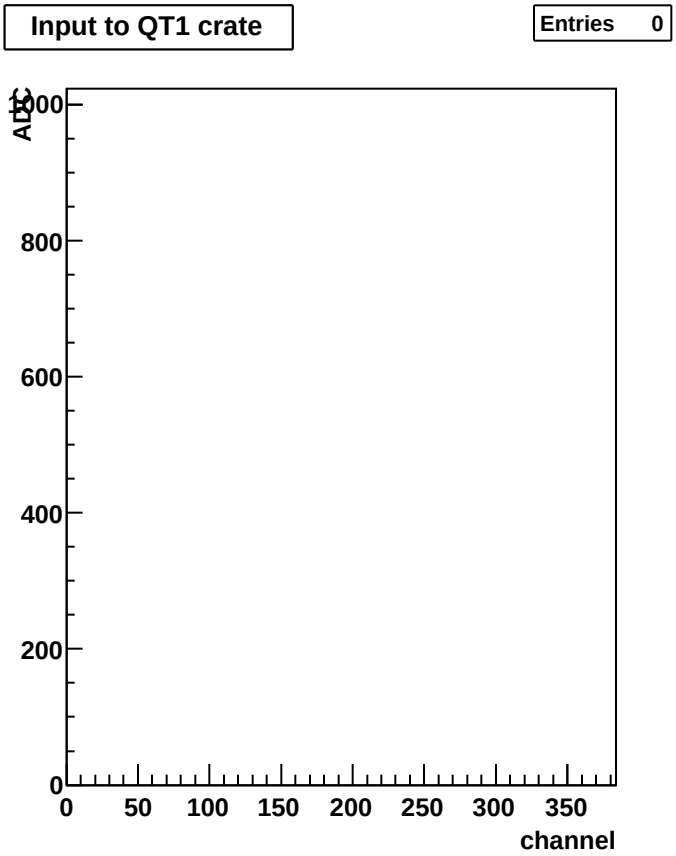
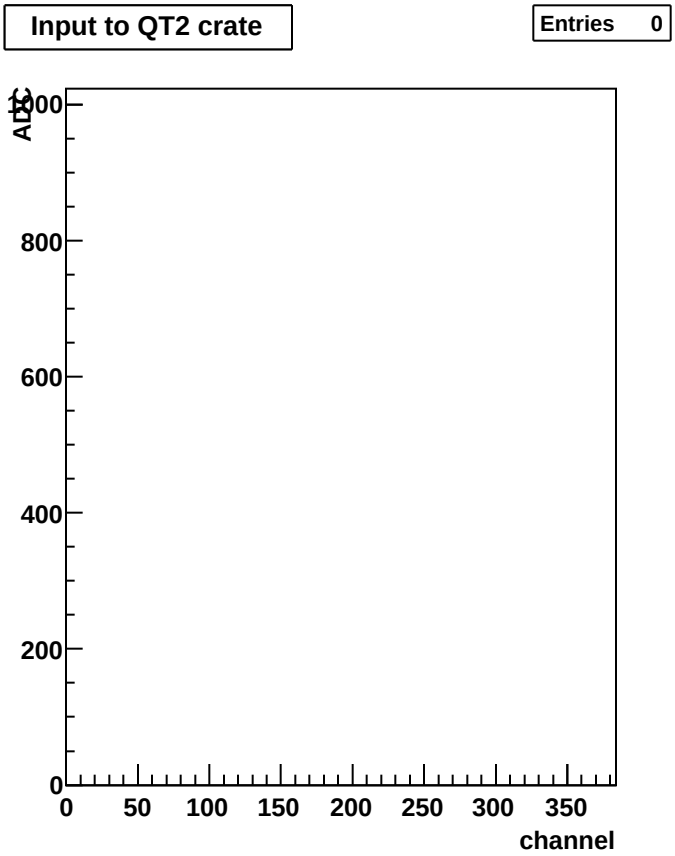
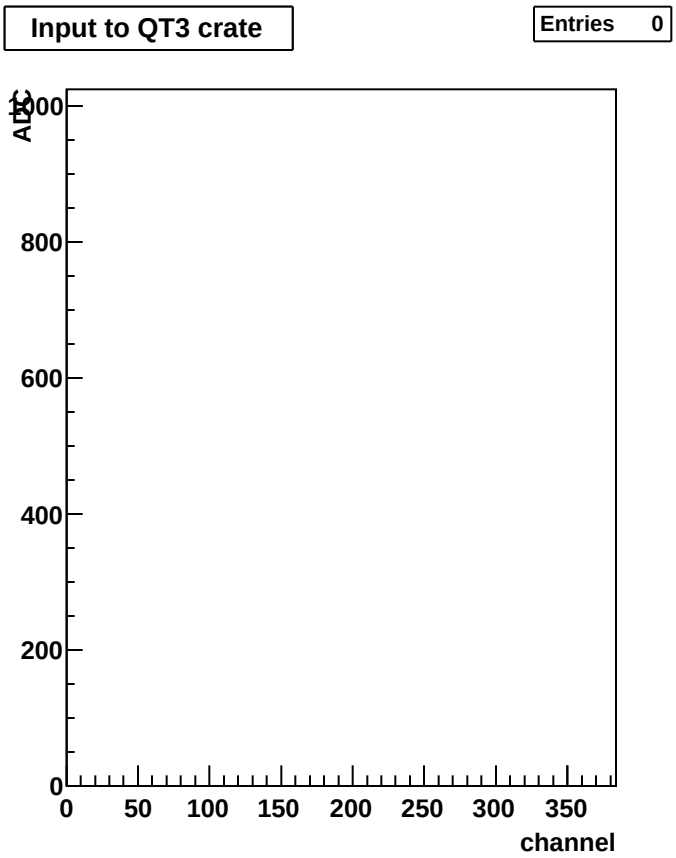
BBC-S-East ADC Sum
BBC-S-West ADC Sum

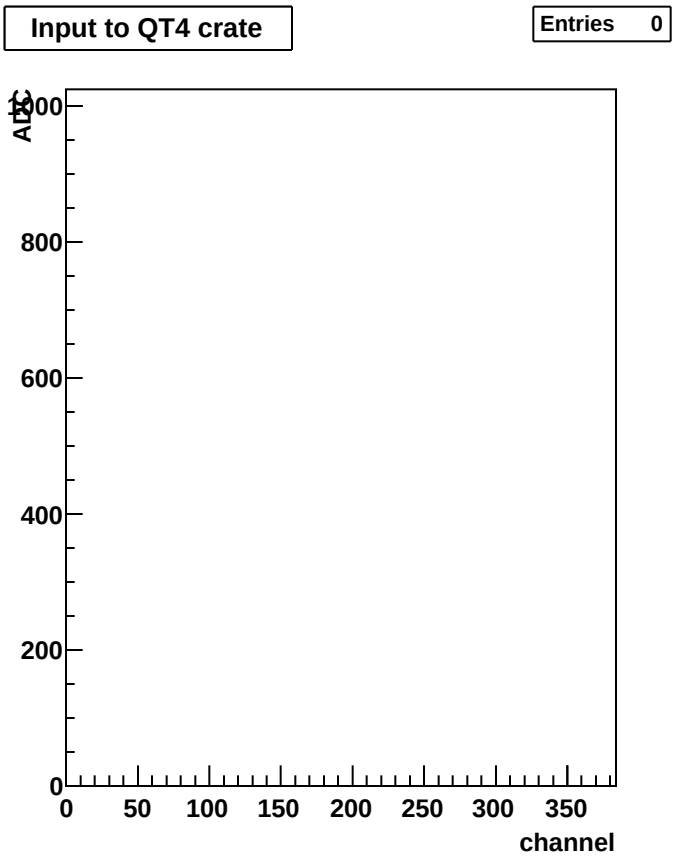

Entries 277322
ZDC East ADC Sum Att
ZDC West ADC Sum Att

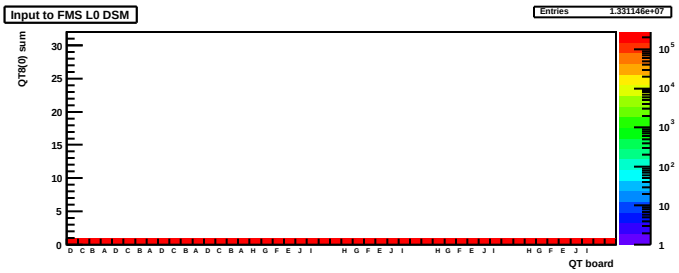

Entries 277322
BBC-L TAC Diff
BCC-S TAC Diff
Entries 277322
BBC-L TAC Diff
VPD TAC Diff
Entries 277322
BBC-L TAC Diff
ZDC TAC Diff
Entries 277322
BBC-S TAC Diff
VPD TAC Diff
Entries 277322
BBC-S TAC Diff
ZDC TAC Diff
Entries 277322
VPD TAC Diff
ZDC TAC Diff

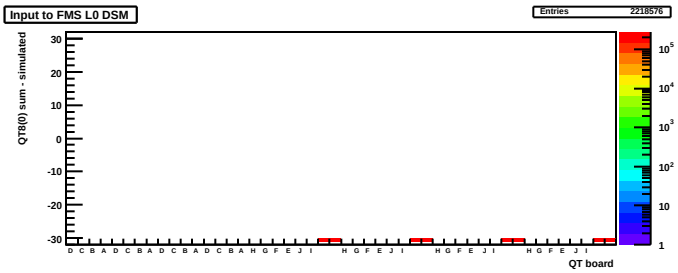

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

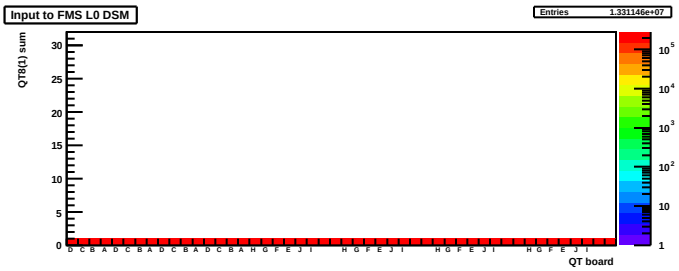

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

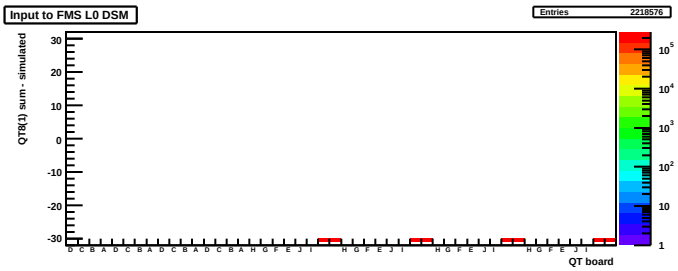

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

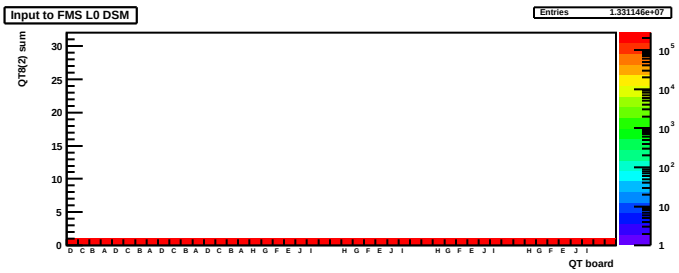

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

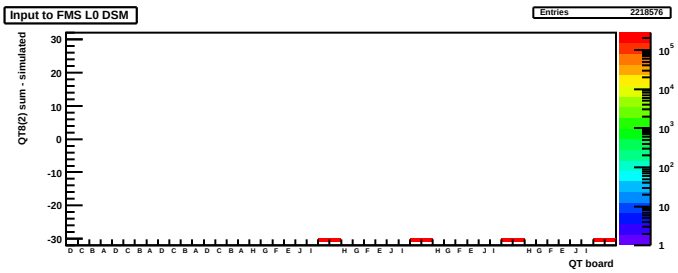

Input to FMS L0 DSM
Entries 1.331146e+07
QT8(0) sum
QT board

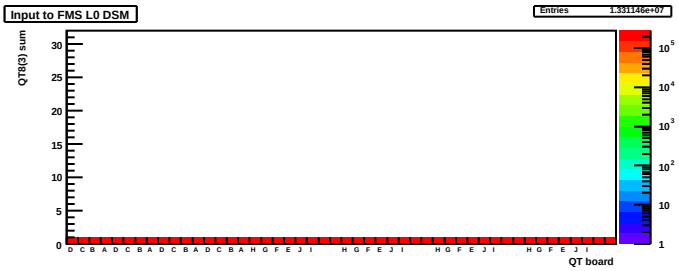

Input to FMS L0 DSM
Entries 2218576
QT8(0) sum - simulated
QT board

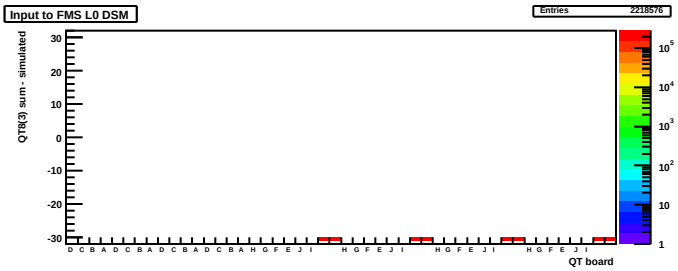

Input to FMS L0 DSM
Entries 1.331146e+07
QT8(1) sum
QT board

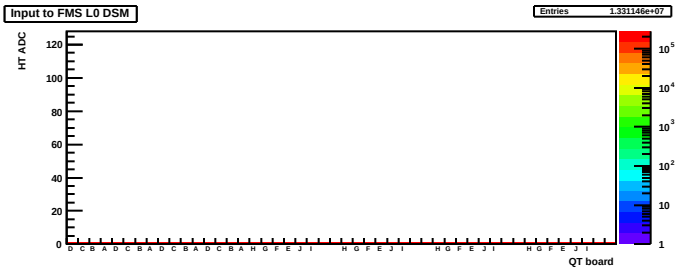

Input to FMS L0 DSM
Entries 2218576
QT8(1) sum - simulated
QT board

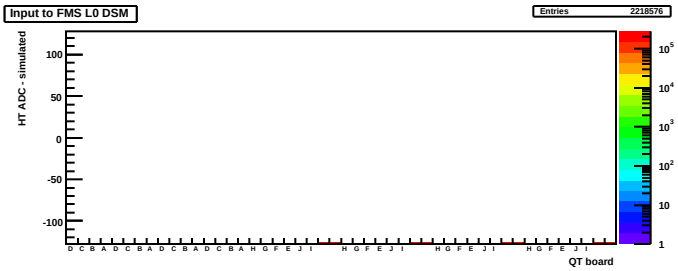

Input to FMS L0 DSM
Entries 1.331146e+07
QT8(2) sum
QT board

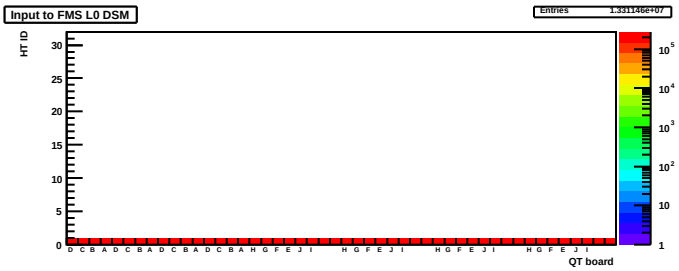

Input to FMS L0 DSM
Entries 2218576
QT8(2) sum - simulated
QT board

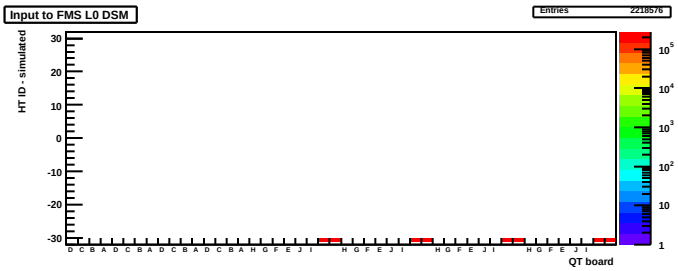

Input to FMS L0 DSM
Entries 1.331146e+07
QT8(3) sum
QT board

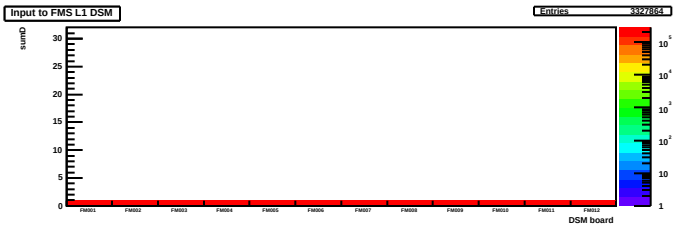

Input to FMS L0 DSM
Entries 2218576
QT8(3) sum - simulated
QT board

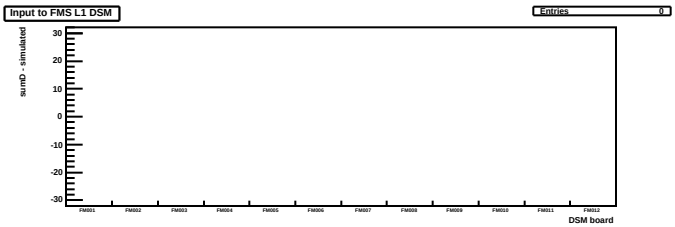

Input to FMS L0 DSM
Entries 1.331146e+07
HT ADC
QT board

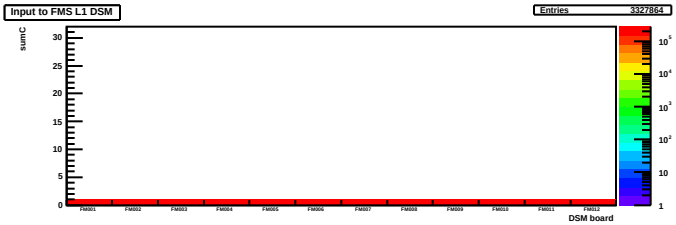

Input to FMS L0 DSM
Entries 2218576
HT ADC - simulated
QT board

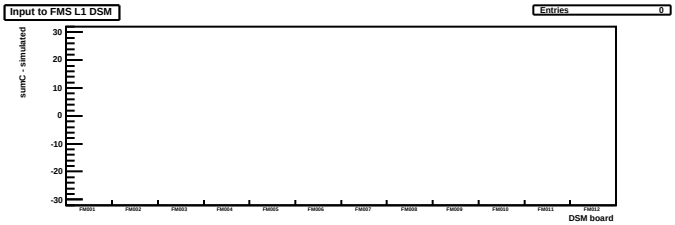

Input to FMS L0 DSM
Entries 1.331146e+07
HT ID
QT board

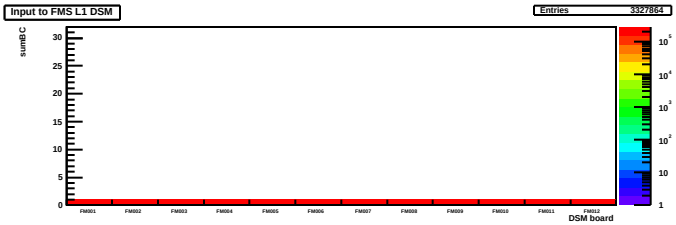

Input to FMS L0 DSM
Entries 2218576
HT ID - simulated
QT board

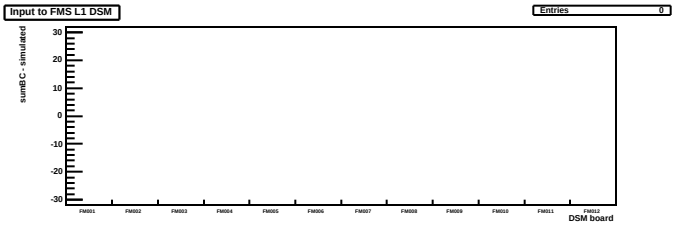

Input to FMS L1 DSM
Entries 3327864
sumD
DSM board

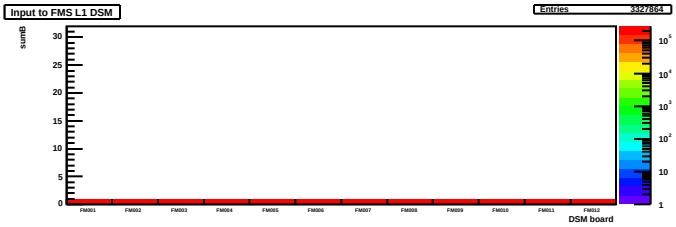

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

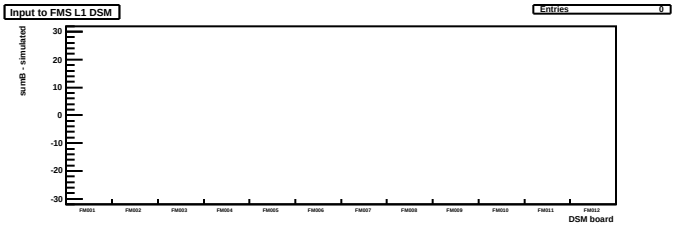

Input to FMS L1 DSM
Entries 3327864
sumC
DSM board

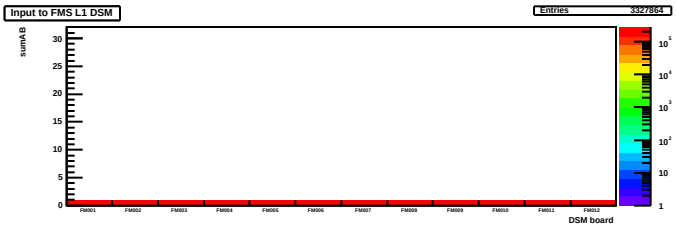

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

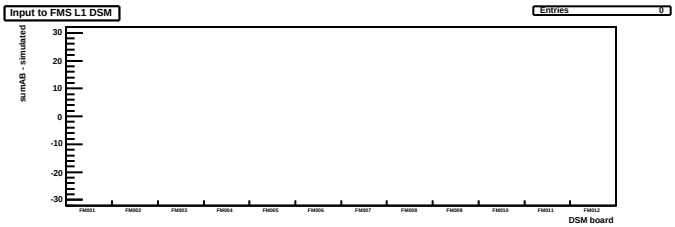

Input to FMS L1 DSM
Entries 3327864
sumBC
DSM board

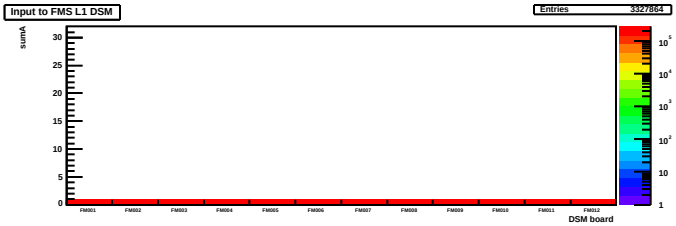

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

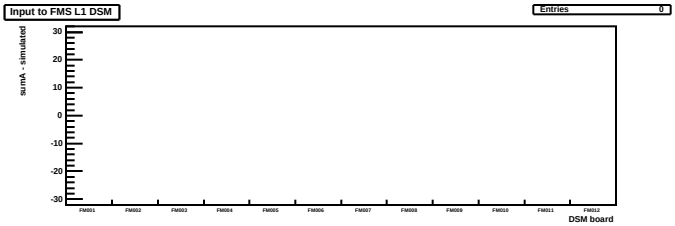

Input to FMS L1 DSM
Entries 3327864
sumB
DSM board

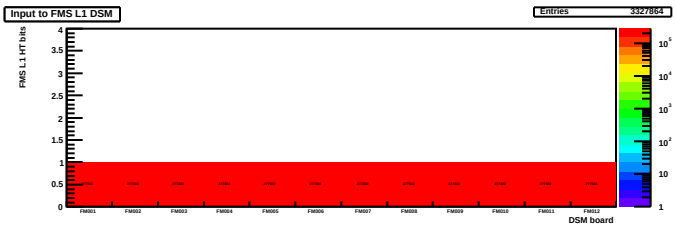

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

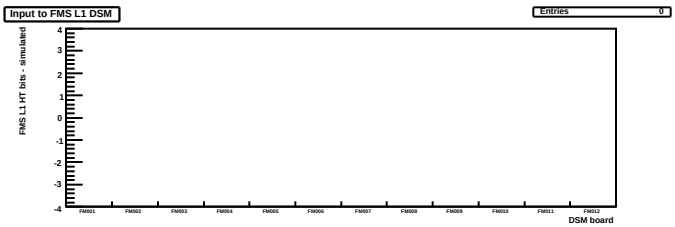

Input to FMS L1 DSM
Entries 3327864
sumAB
DSM board

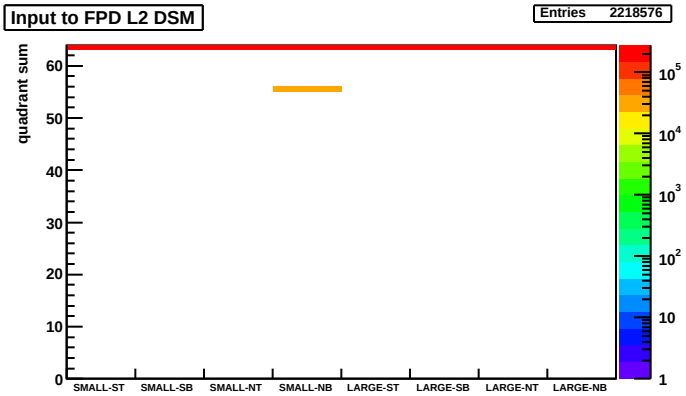

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

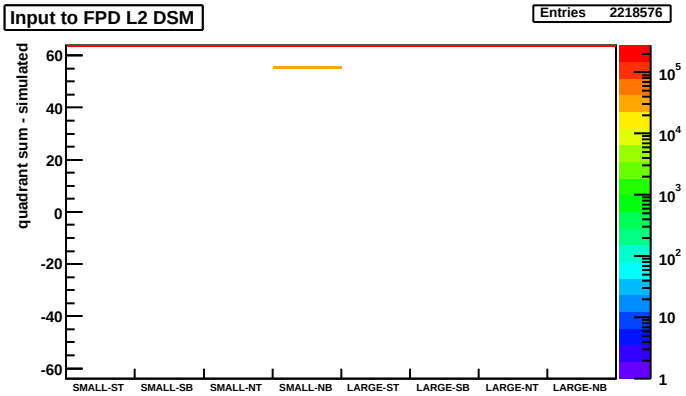

Input to FMS L1 DSM
Entries 3327864
sumA
DSM board

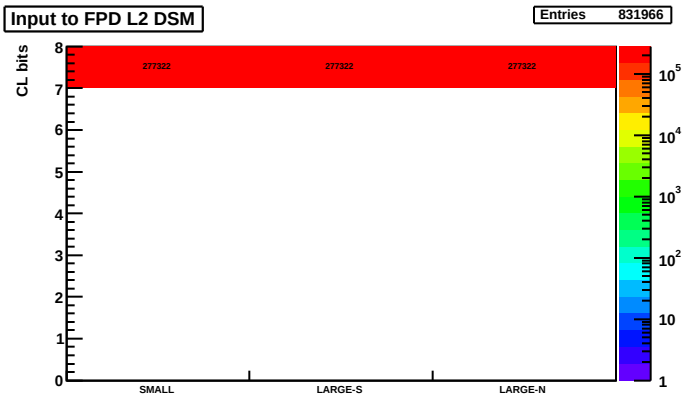

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

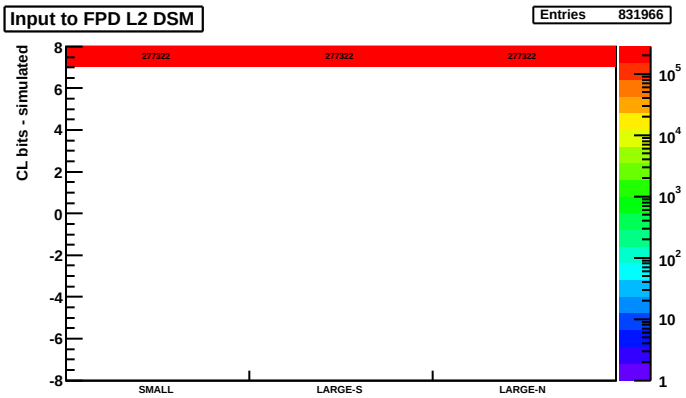

Input to FMS L1 DSM
Entries 3327864
FMS L1 HT bits
DSM board

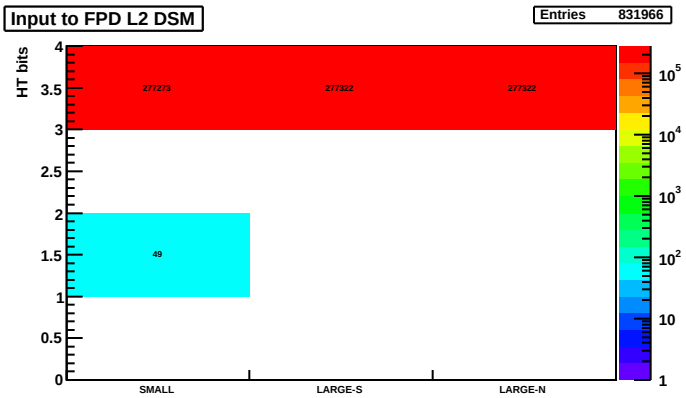

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

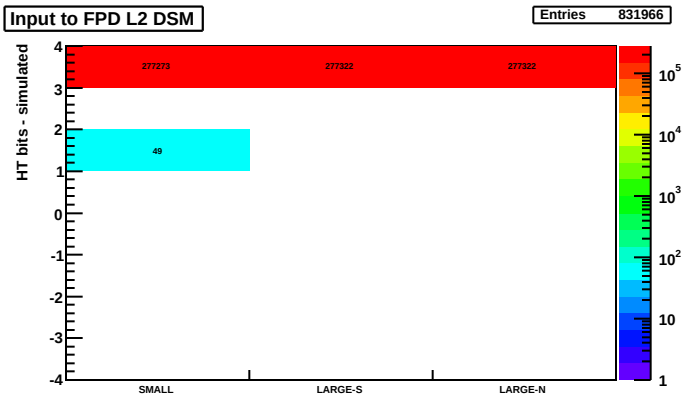

Input to FPD L2 DSM
Entries 2218576
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

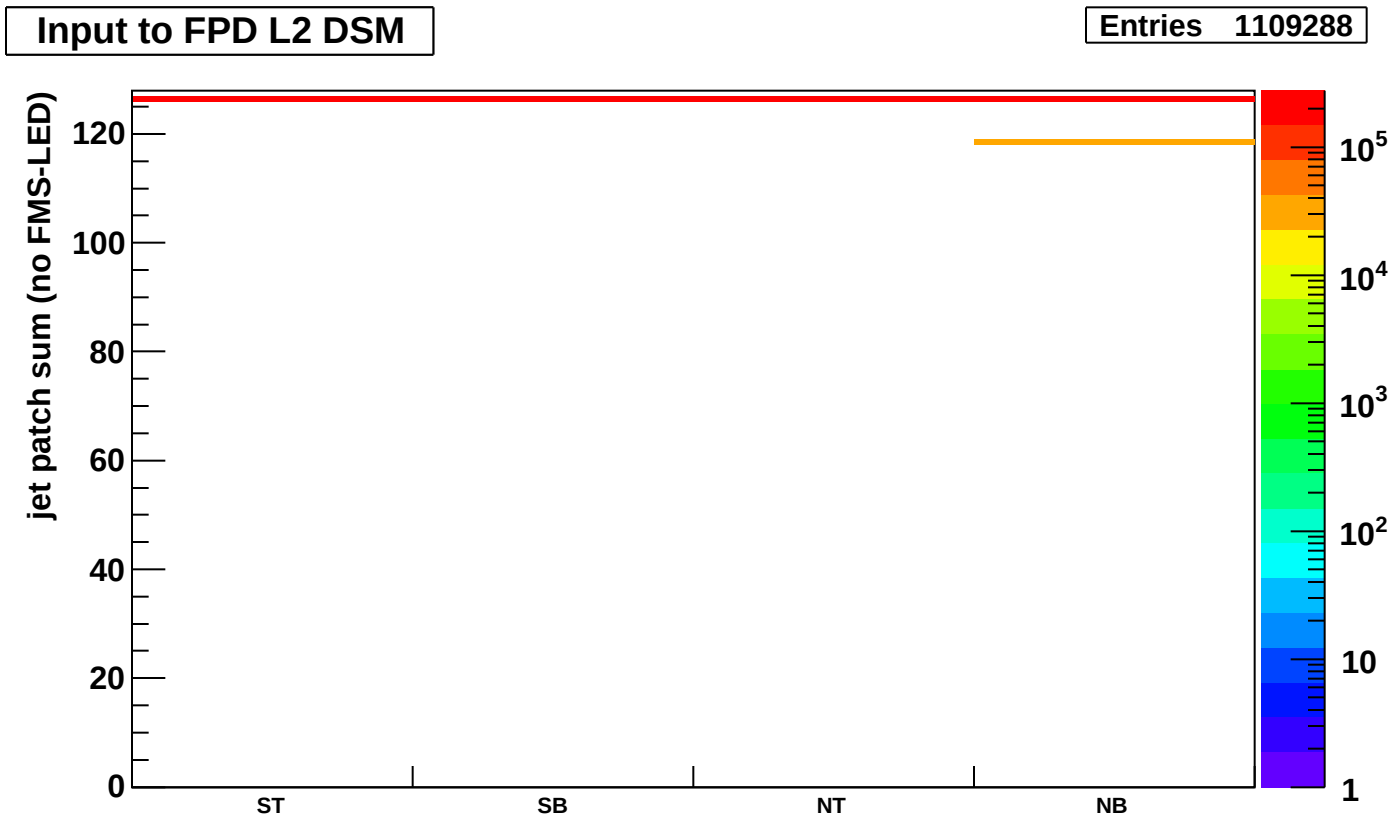

Input to FPD L2 DSM
Entries 2218576
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

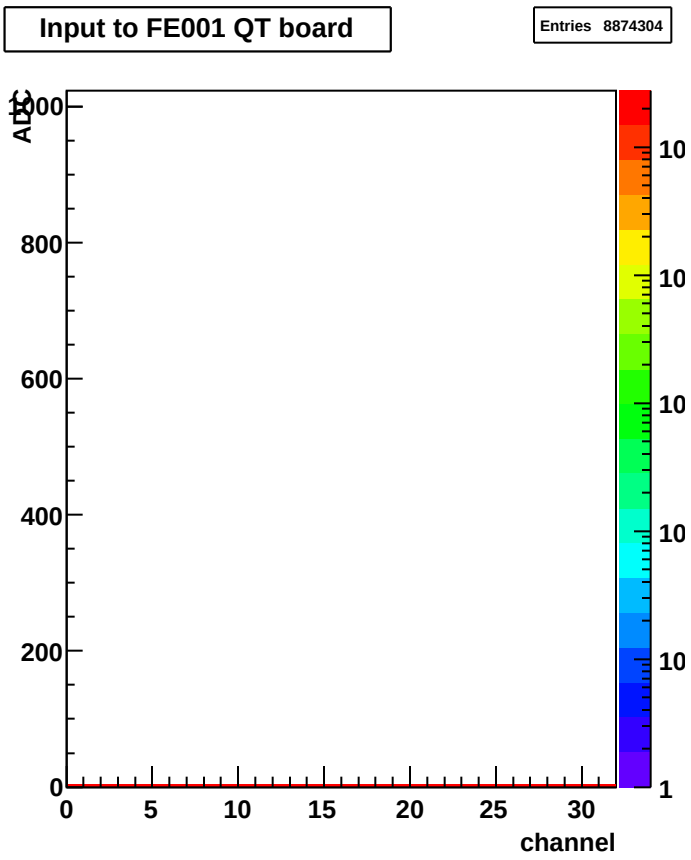

Input to FPD L2 DSM
Entries 831966
CL bits
277322
277322
277322
SMALL
LARGE-S
LARGE-N

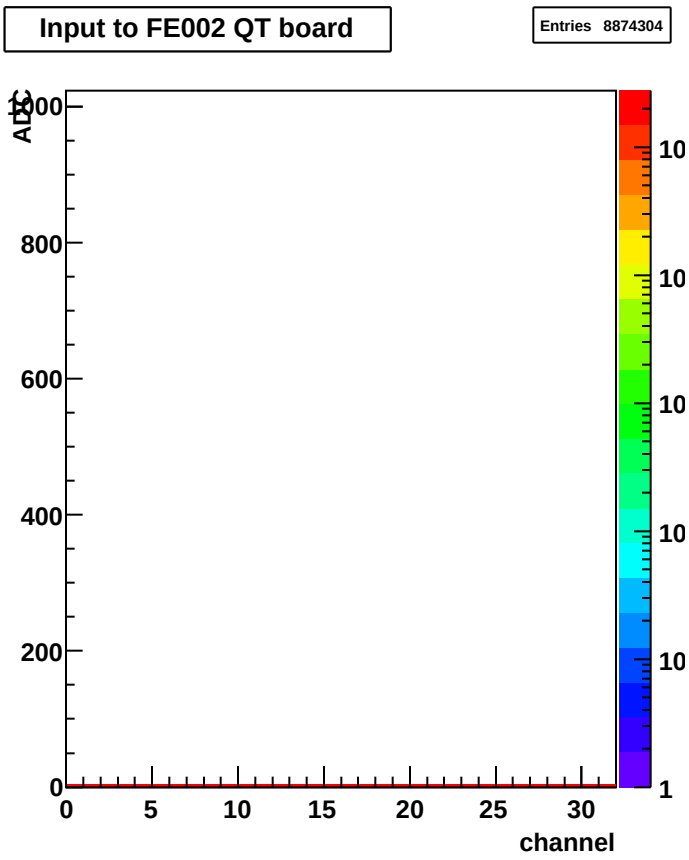

Input to FPD L2 DSM
Entries 831966
CL bits - simulated
277322
277322
277322
SMALL
LARGE-S
LARGE-N

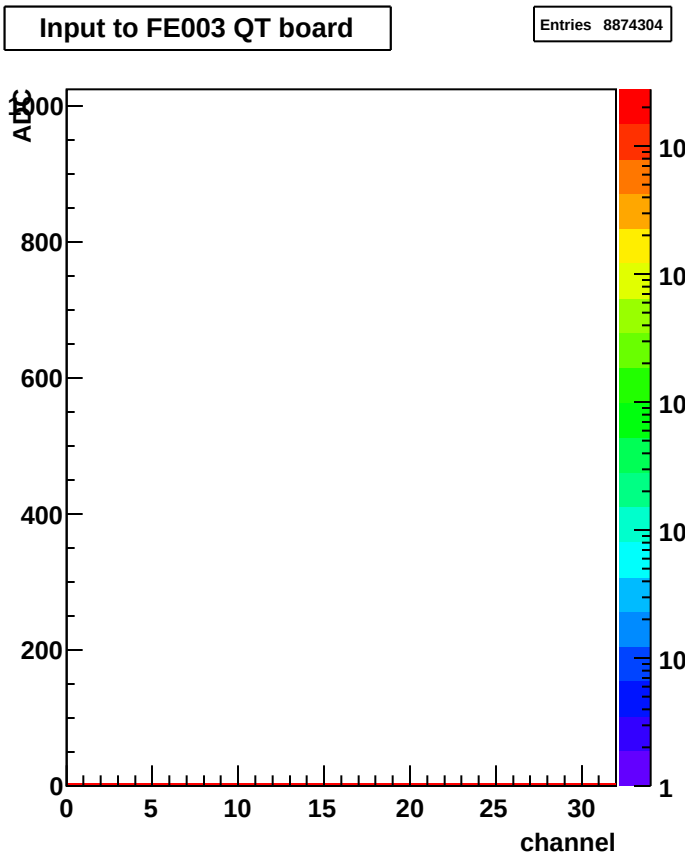

Input to FPD L2 DSM
Entries 831966
HT bits
277273
277322
277322
49
SMALL
LARGE-S
LARGE-N

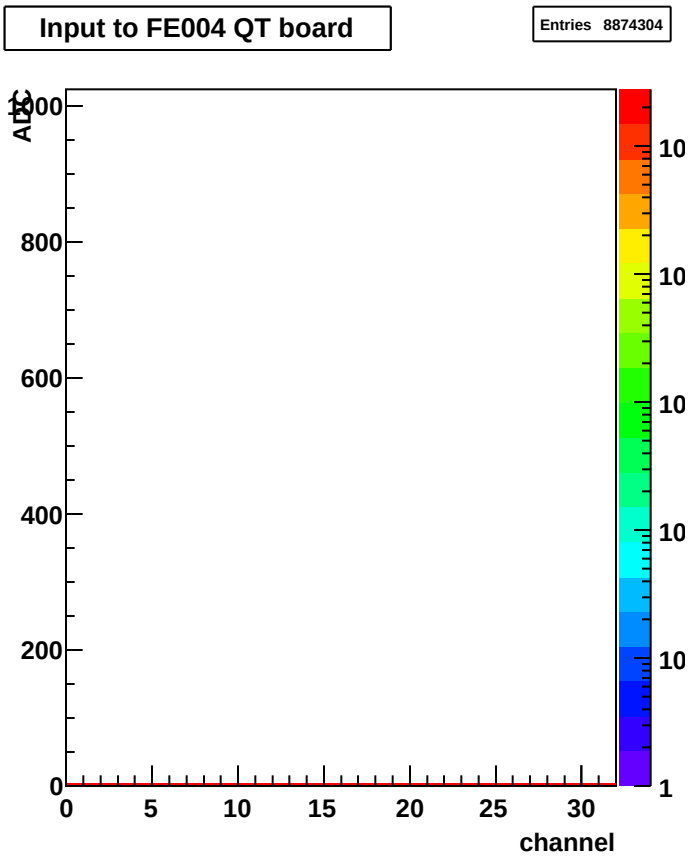

Input to FPD L2 DSM
Entries 831966
HT bits - simulated
277273
277322
277322
49
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 1109288
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

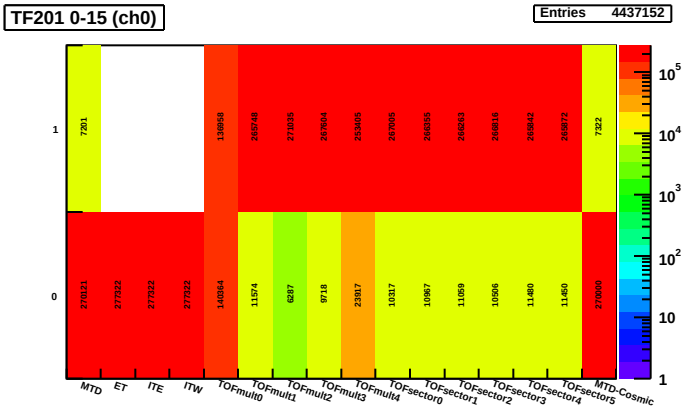

Input to FE001 QT board
Entries 8874304
ADC
channel


Input to FE002 QT board
Entries 8874304
ADC
channel

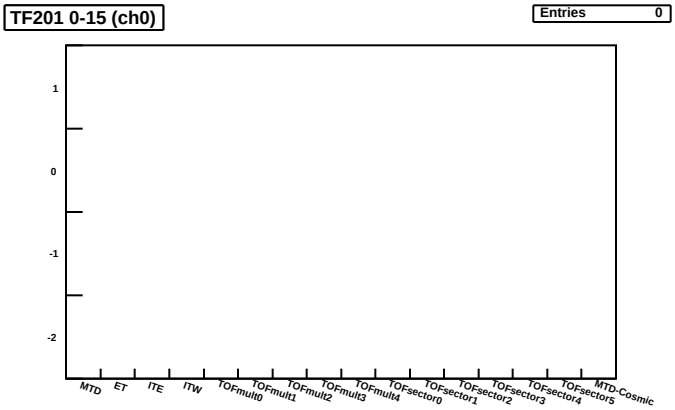

Input to FE003 QT board
Entries 8874304
ADC
channel


Input to FE004 QT board
Entries 8874304
ADC
channel

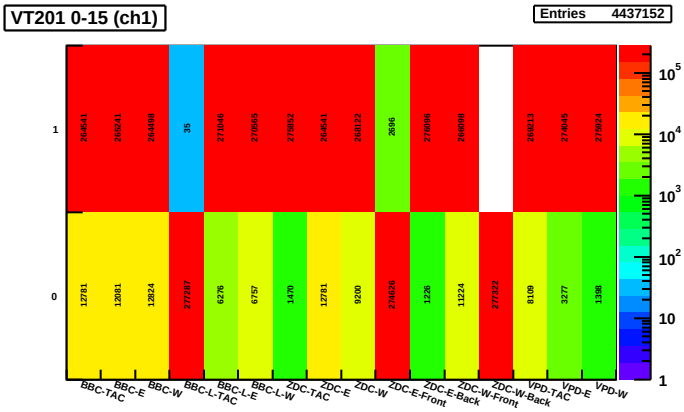
TF201 0-15 (ch0)



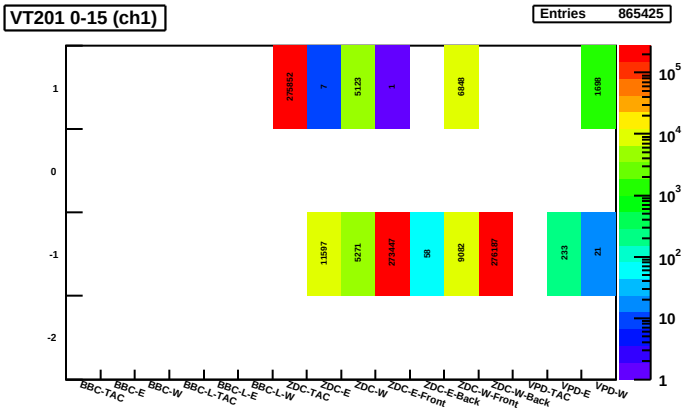
TF201 0-15 (ch0)



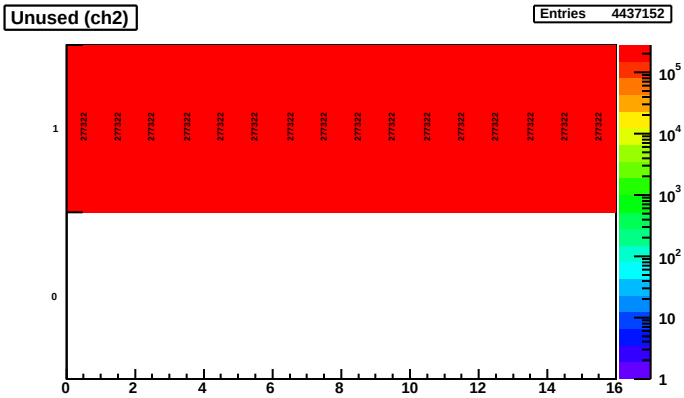
VT201 0-15 (ch1)

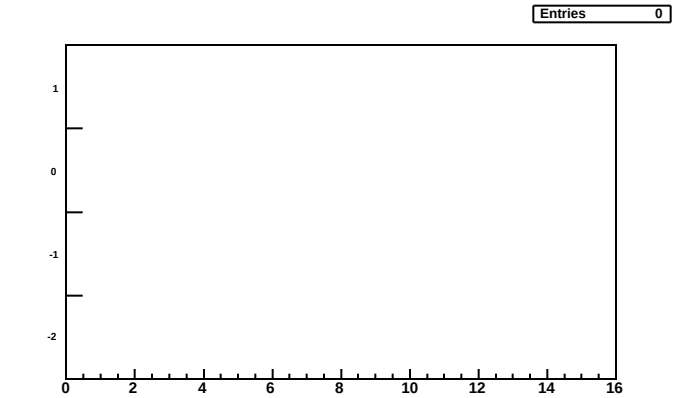


VT201 0-15 (ch1)

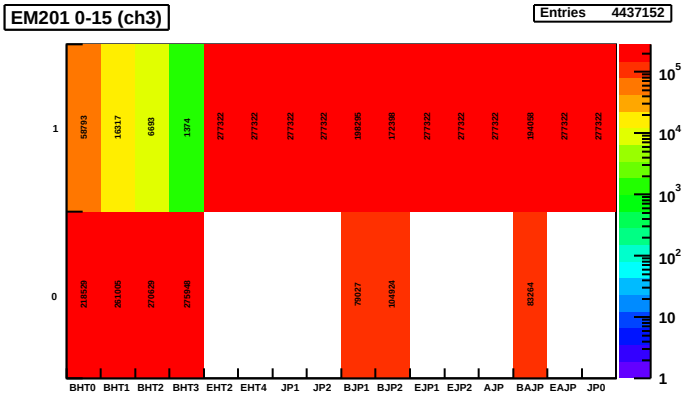


Unused (ch2)

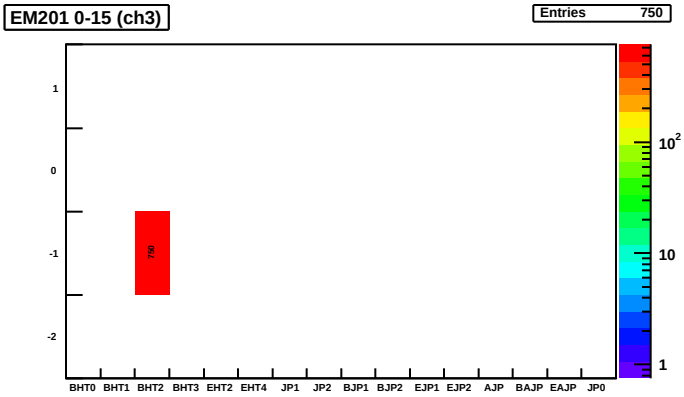




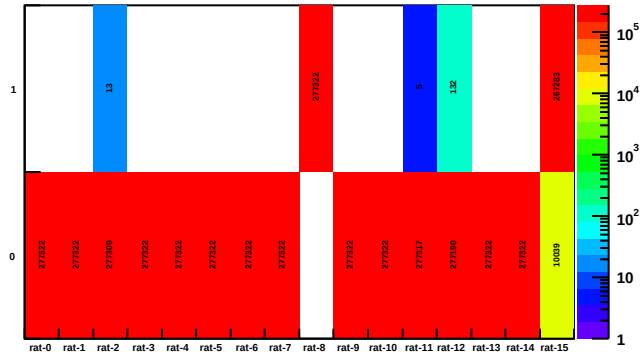
EM201 0-15 (ch3)

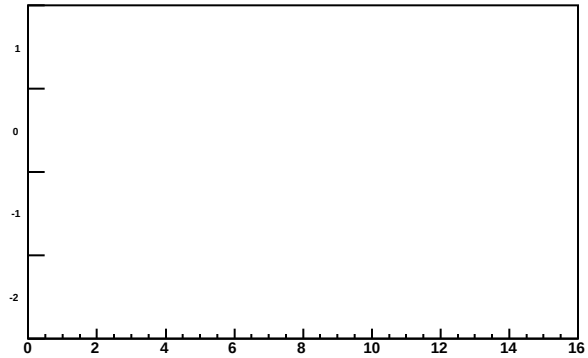


EM201 0-15 (ch3)

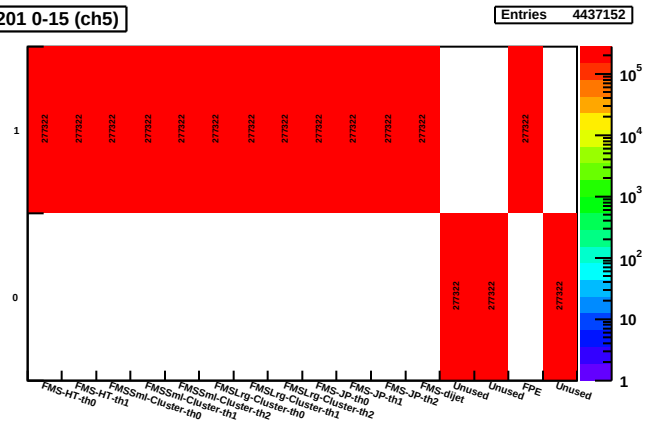


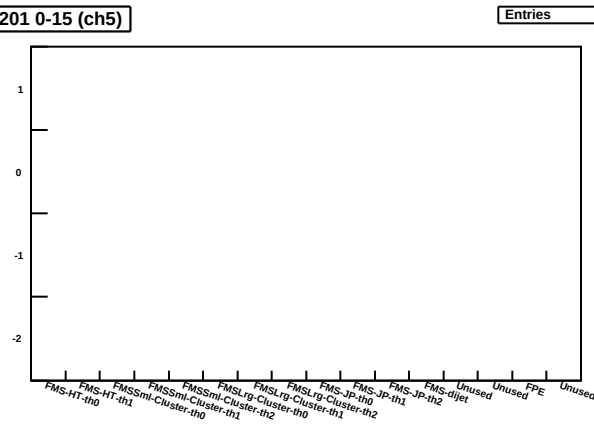
RAT board (ch4)



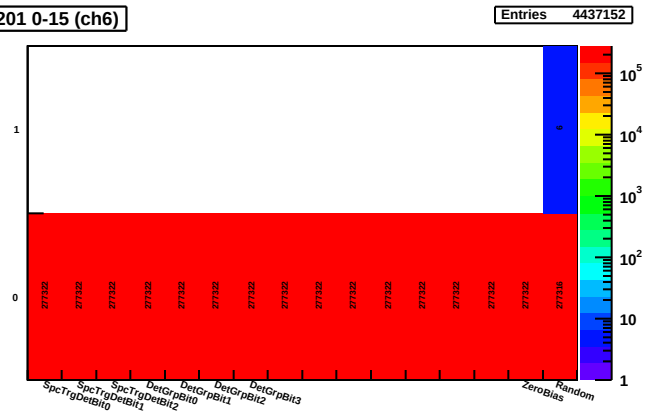


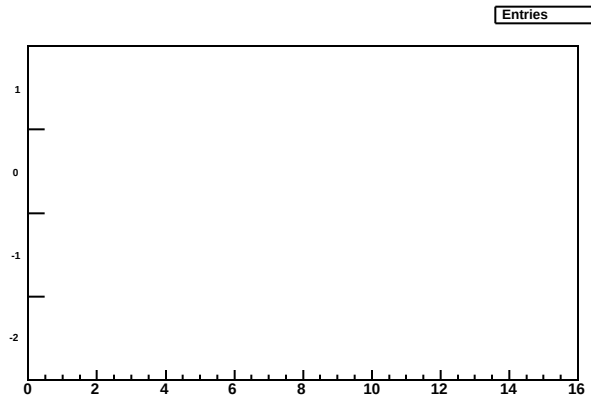
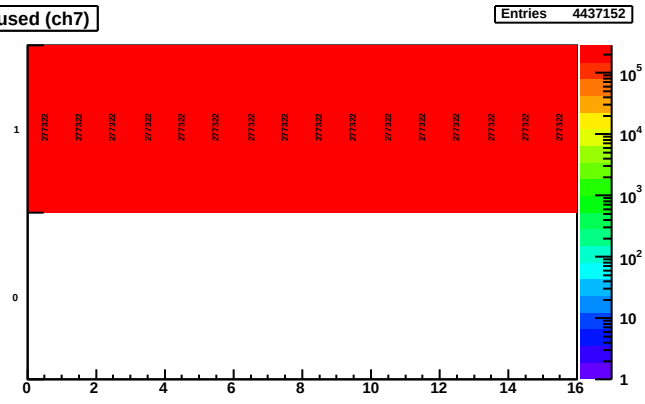
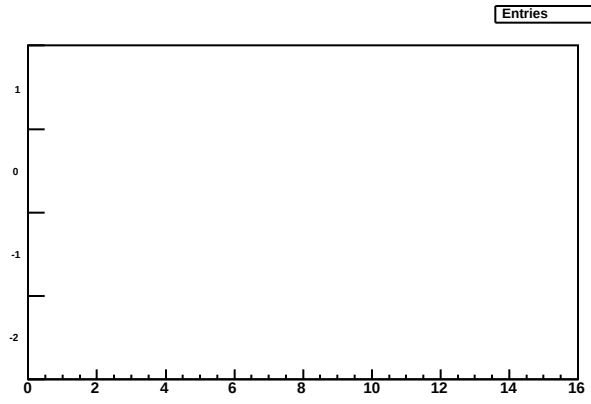
FP201 0-15 (ch5)





ST201 0-15 (ch6)





Unused (ch7)