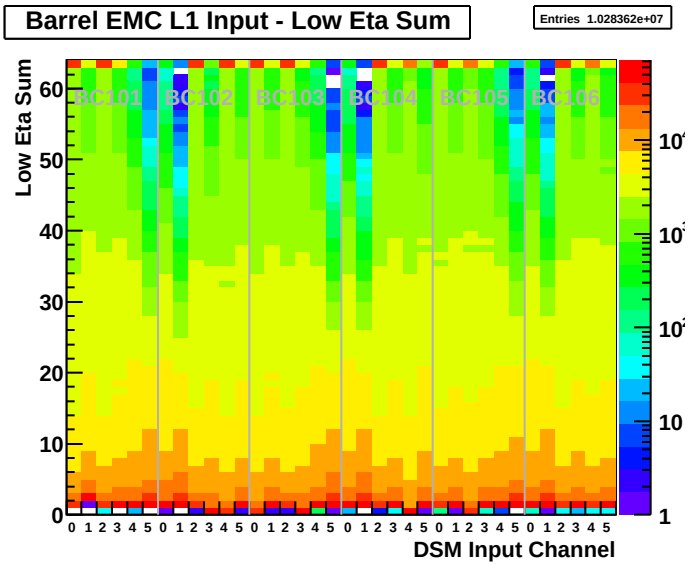
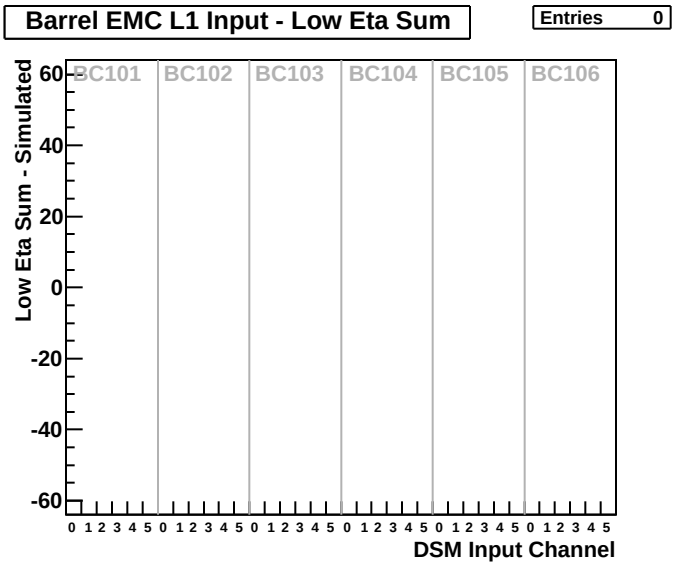
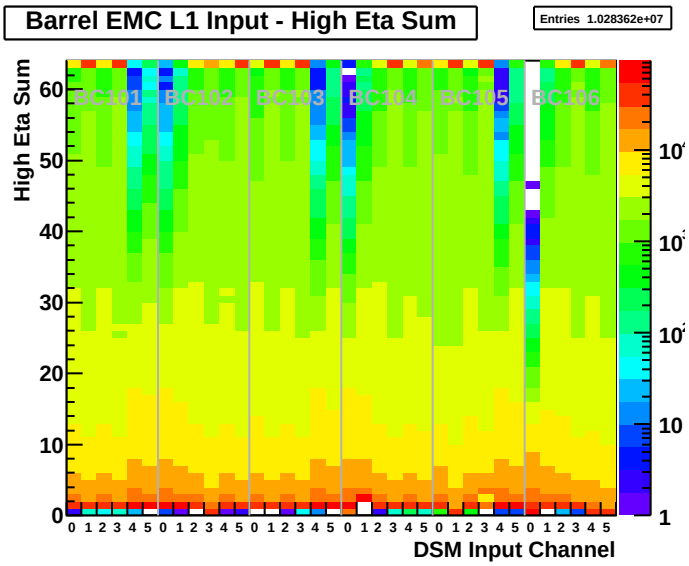
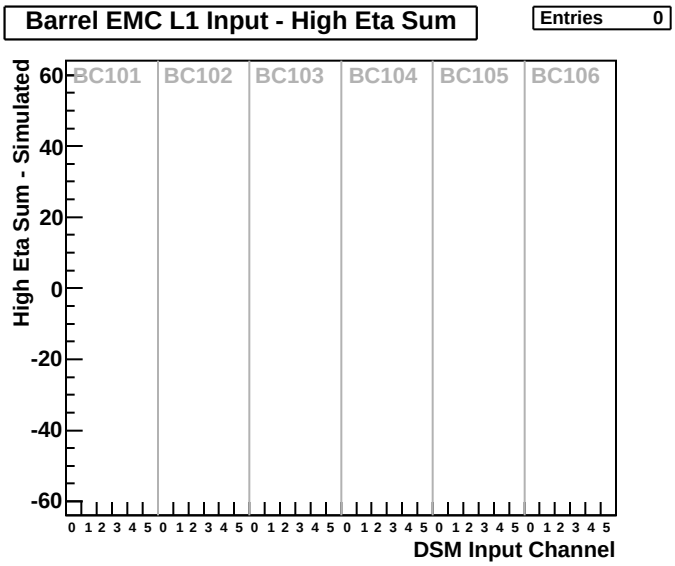
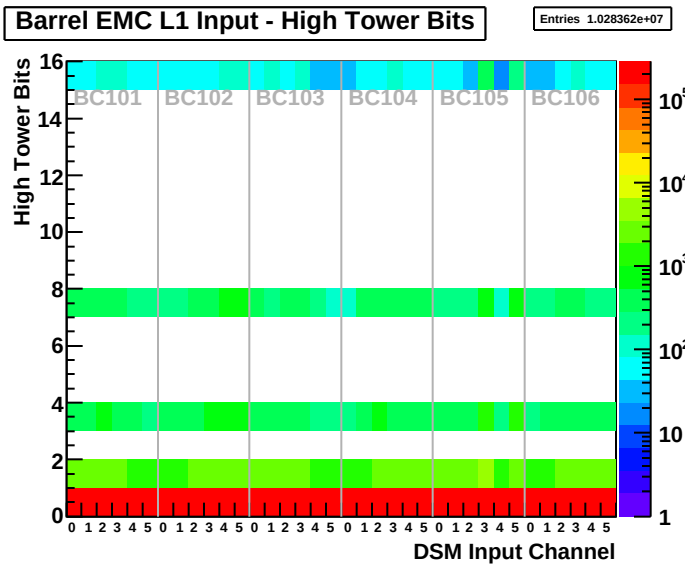
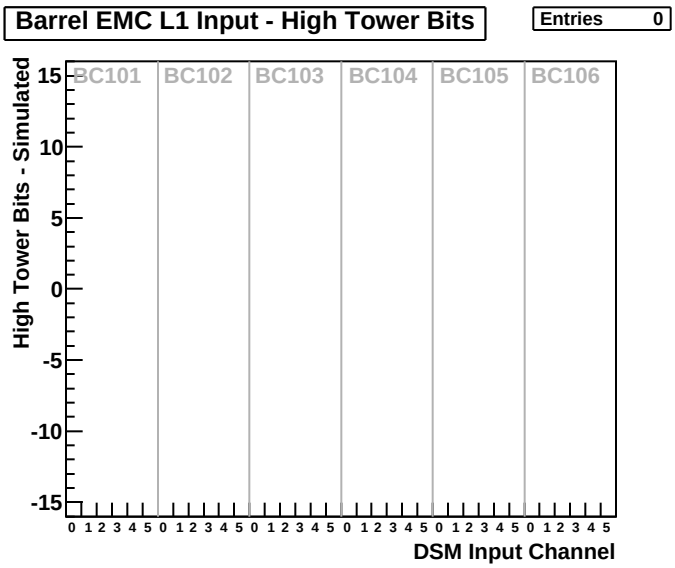

Barrel EMC L1 Input - Low Eta Sum
Entries 1.028362e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

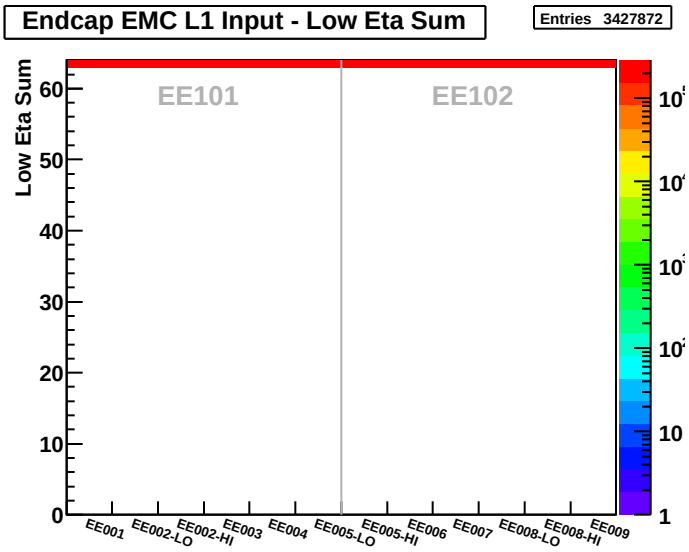

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

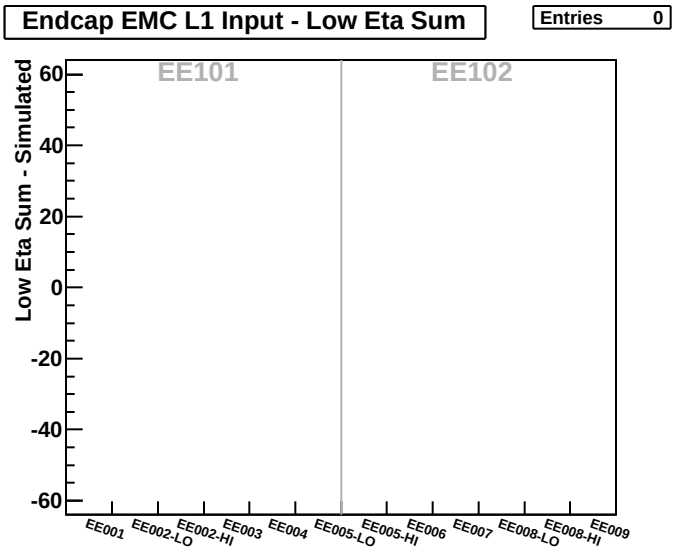

Barrel EMC L1 Input - High Eta Sum
Entries 1.028362e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

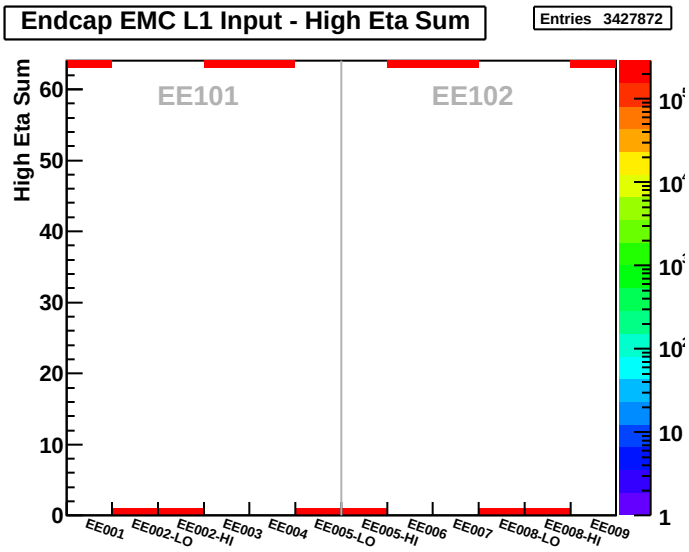

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

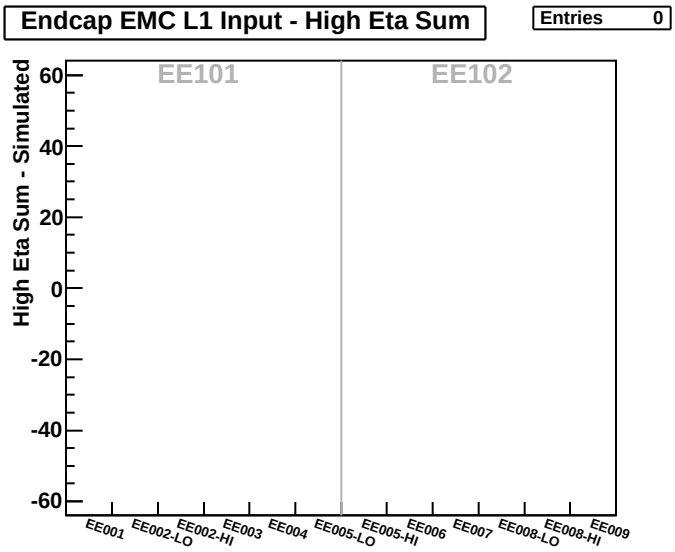

Barrel EMC L1 Input - High Tower Bits
Entries 1.028362e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

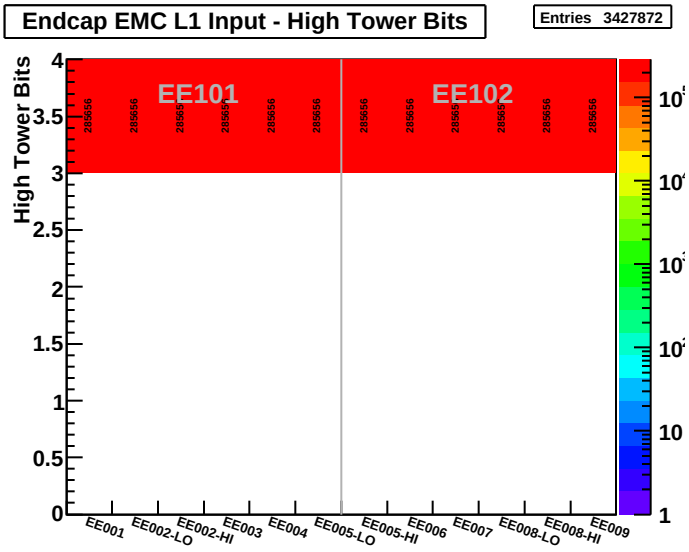

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

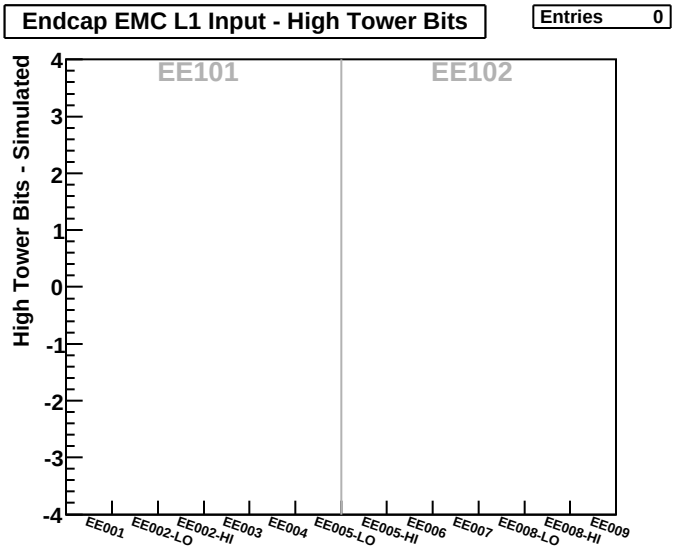

Endcap EMC L1 Input - Low Eta Sum
Entries 3427872
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

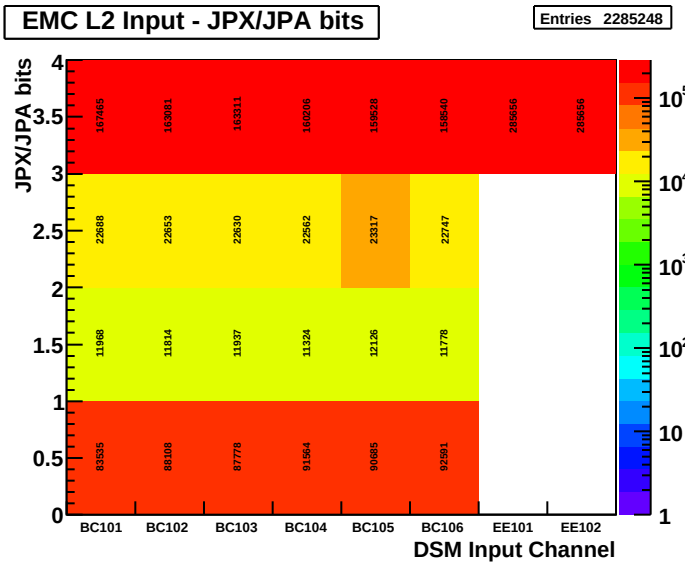

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

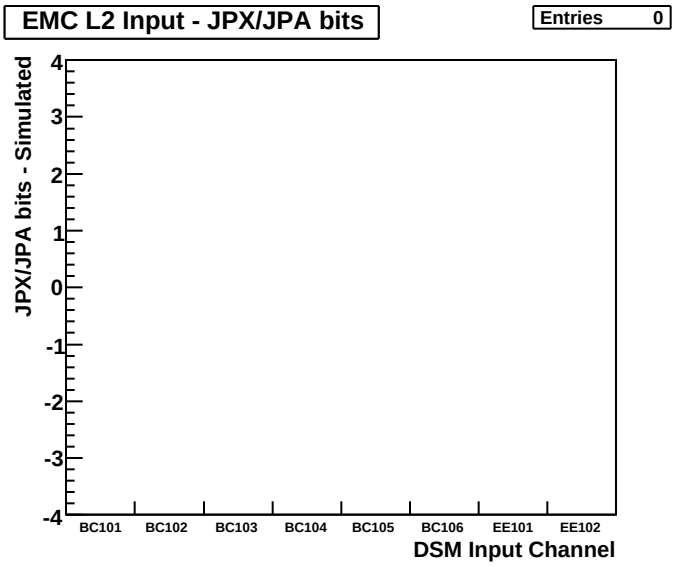

Endcap EMC L1 Input - High Eta Sum
Entries 3427872
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

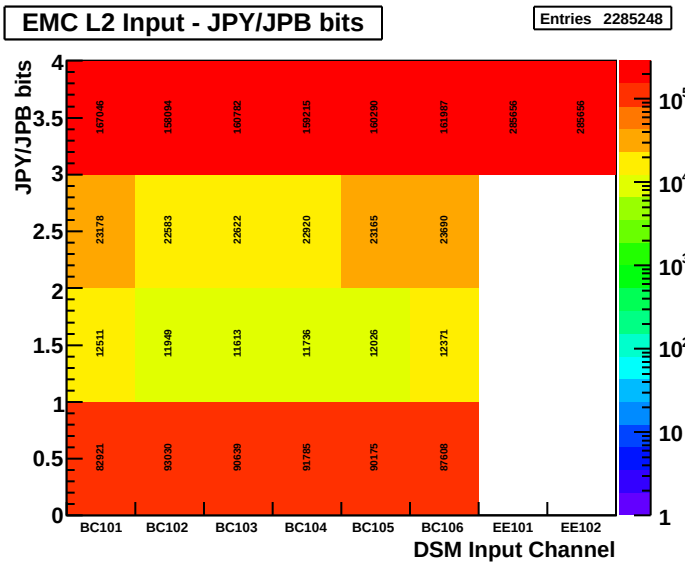

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

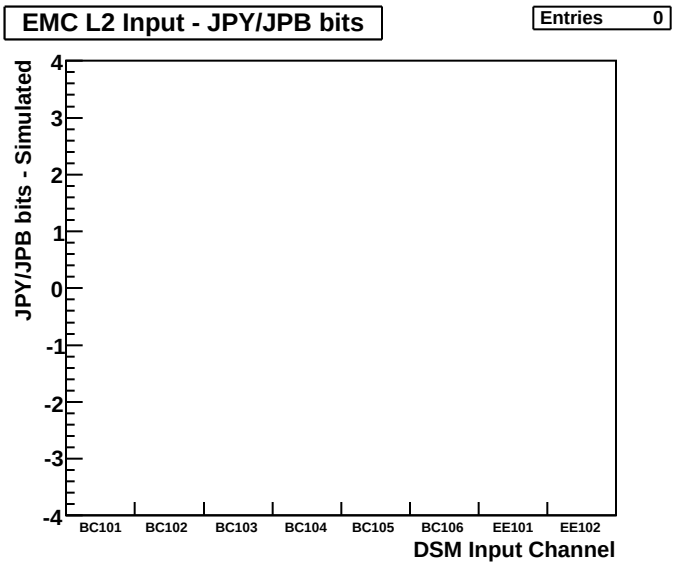

Endcap EMC L1 Input - High Tower Bits
Entries 3427872
High Tower Bits
EE101
EE102
285656
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

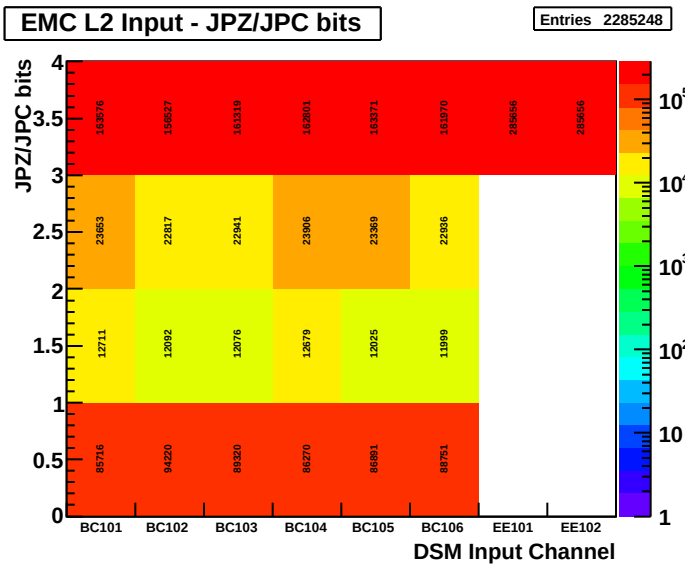

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

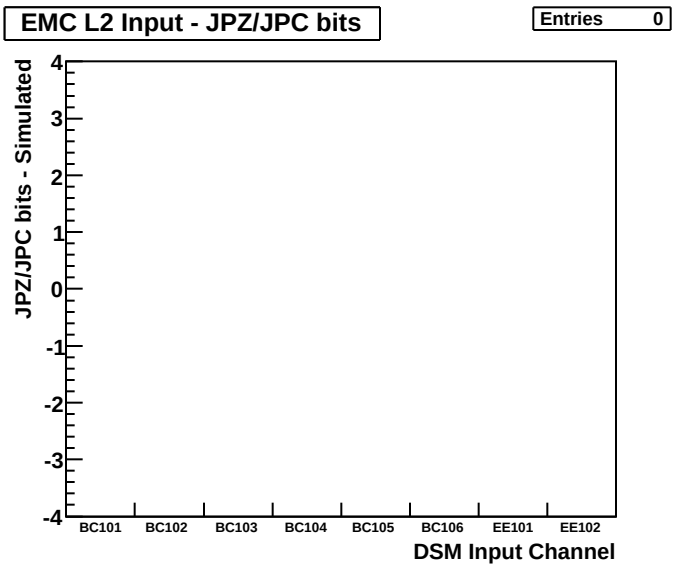

EMC L2 Input - JPX/JPA bits
Entries 2285248
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
167465 163081 163211 160206 159528 158540 285656 285656
22688 22653 22630 22562 23317 22747
11968 11814 11937 11324 12126 11778
83535 88108 87778 91564 90685 92591

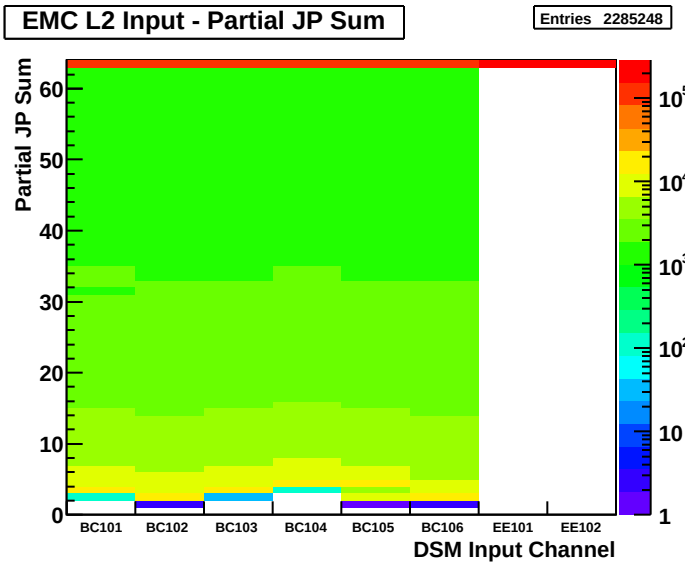

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

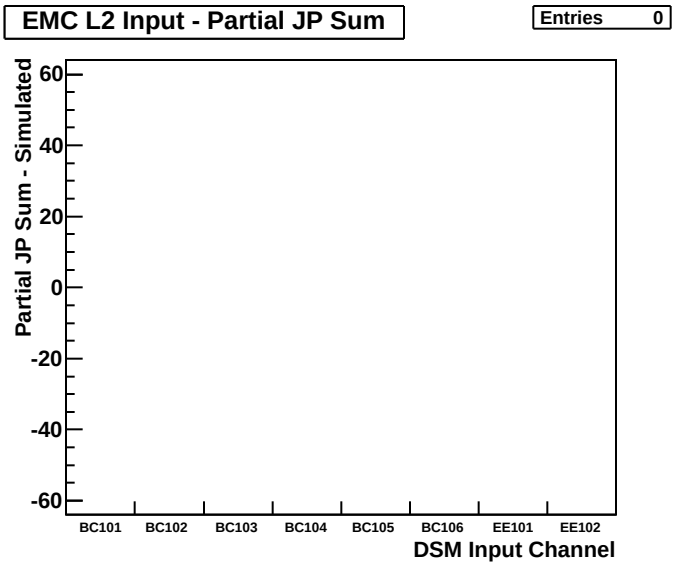

EMC L2 Input - JPY/JPB bits
Entries 2285248
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
167046 158094 160722 159215 160290 161987 285656 285656
23178 22563 22622 22920 23165 23690
12511 11949 11613 11736 12026 12371
82921 93030 90639 91785 90175 87608

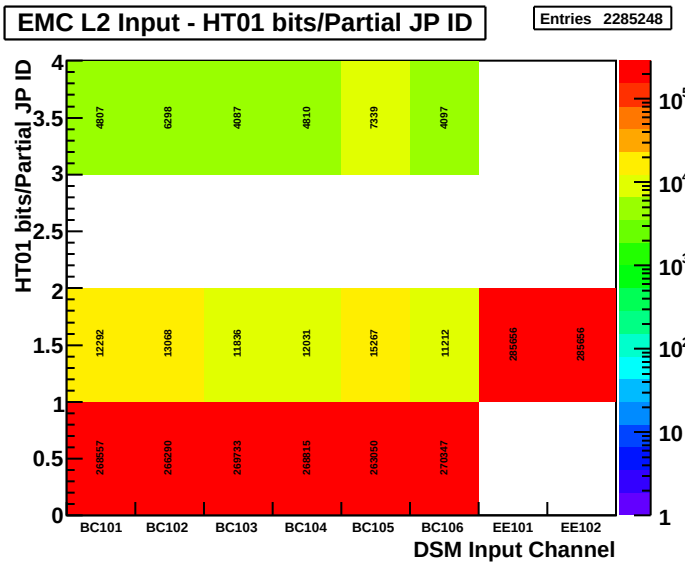

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

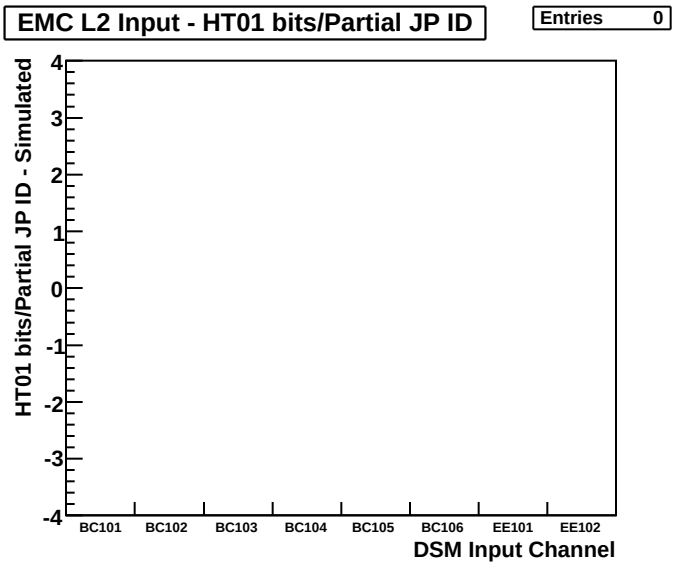

EMC L2 Input - JPZ/JPC bits
Entries 2285248
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
163576 156527 161319 162801 163371 161970 285656 285656
23653 22817 22941 23906 23369 22936
12711 12092 12076 12679 12025 11999
85716 94220 89320 86270 86891 88751

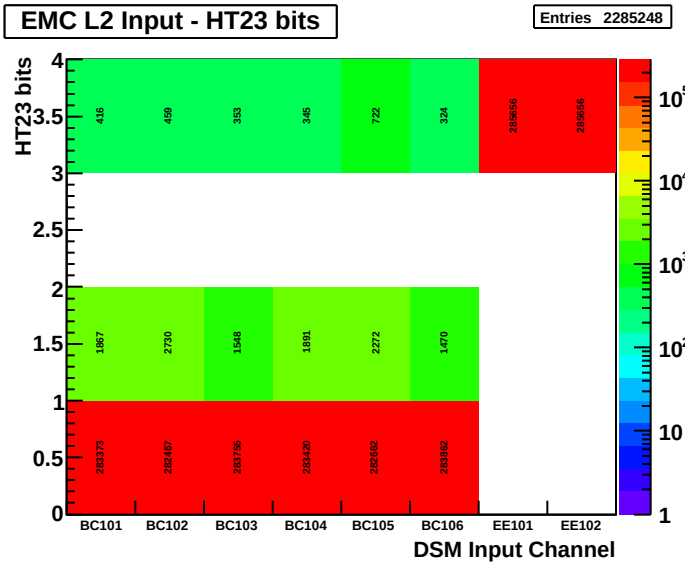

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

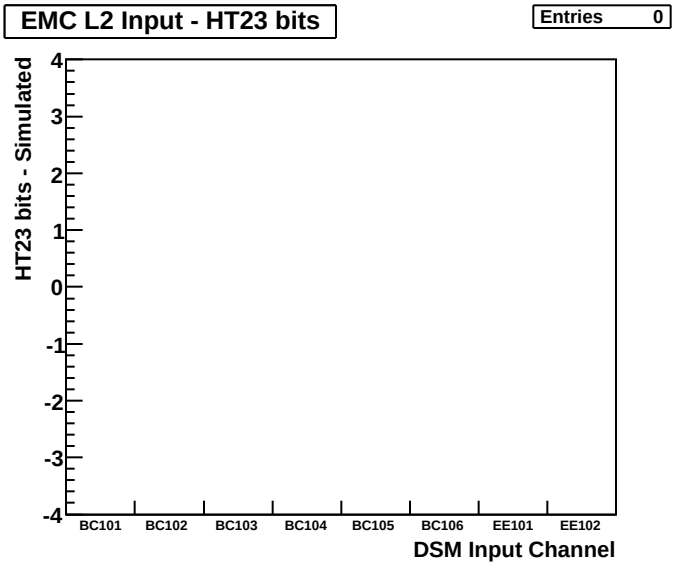

EMC L2 Input - Partial JP Sum
Entries 2285248
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

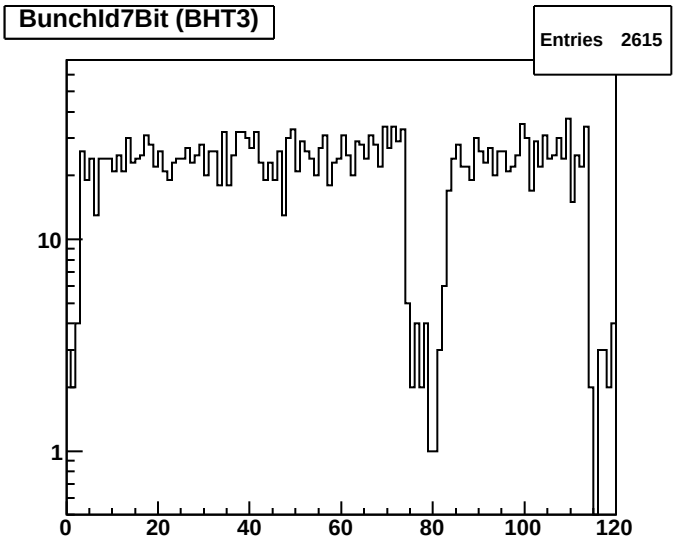

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

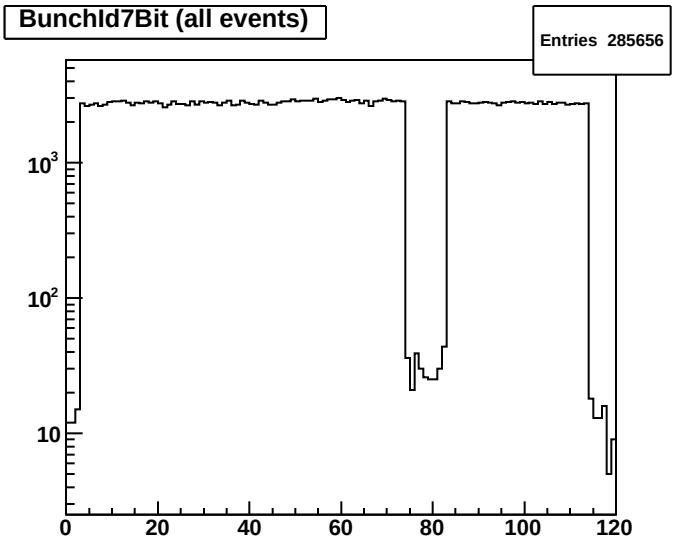

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2285248
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

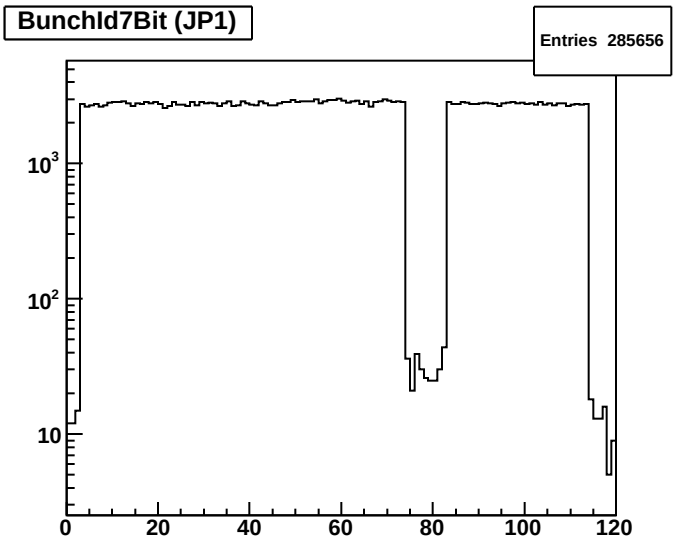

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

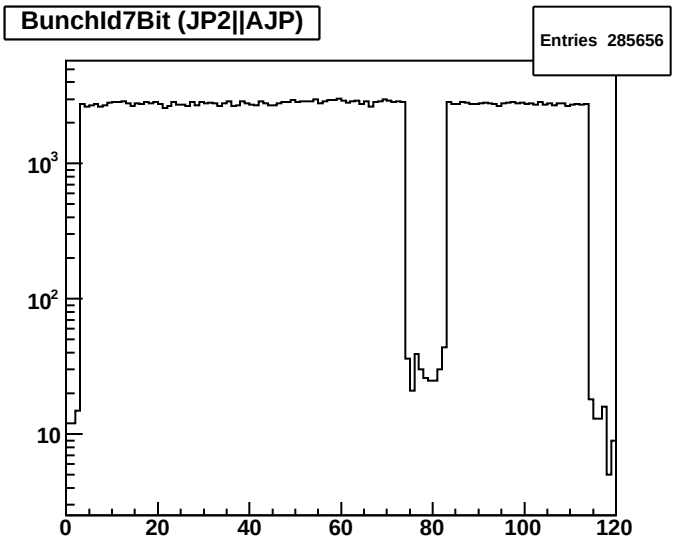

EMC L2 Input - HT23 bits
Entries 2285248
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

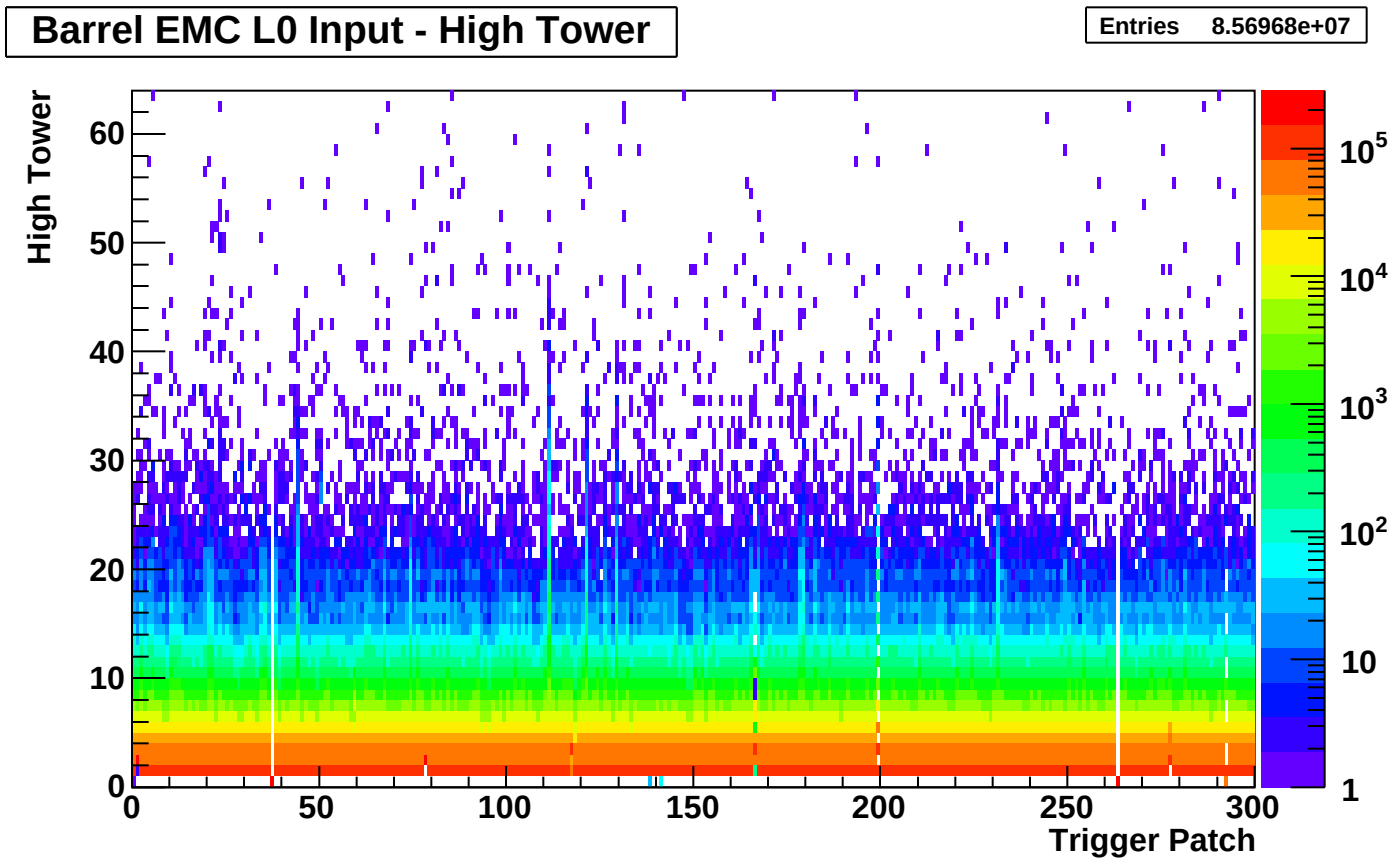

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

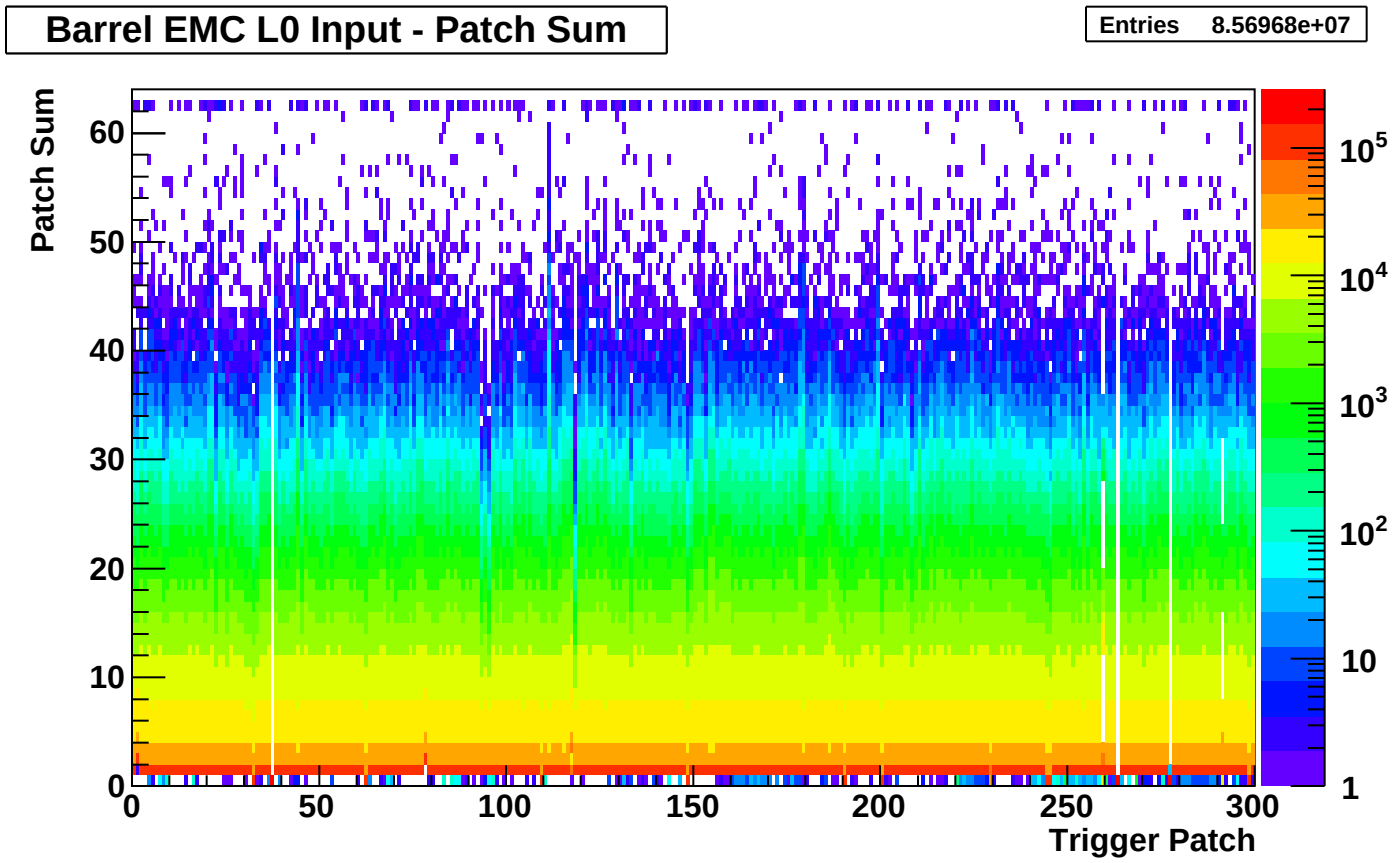

BunchId7Bit (BHT3)
Entries 2615
10
1
0
20
40
60
80
100
120

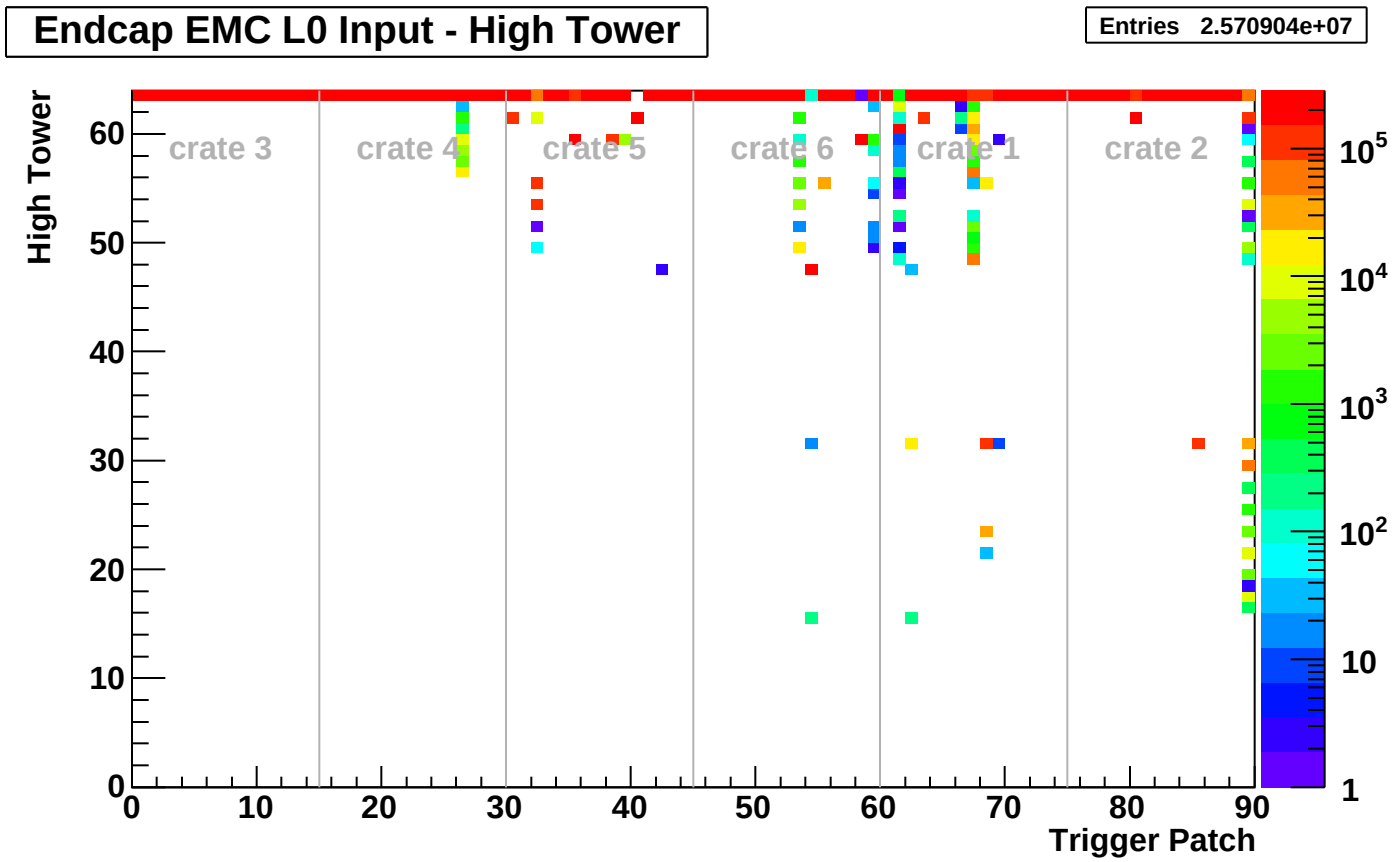

BunchId7Bit (all events)
Entries 285656
10^3
10^2
10
0
20
40
60
80
100
120

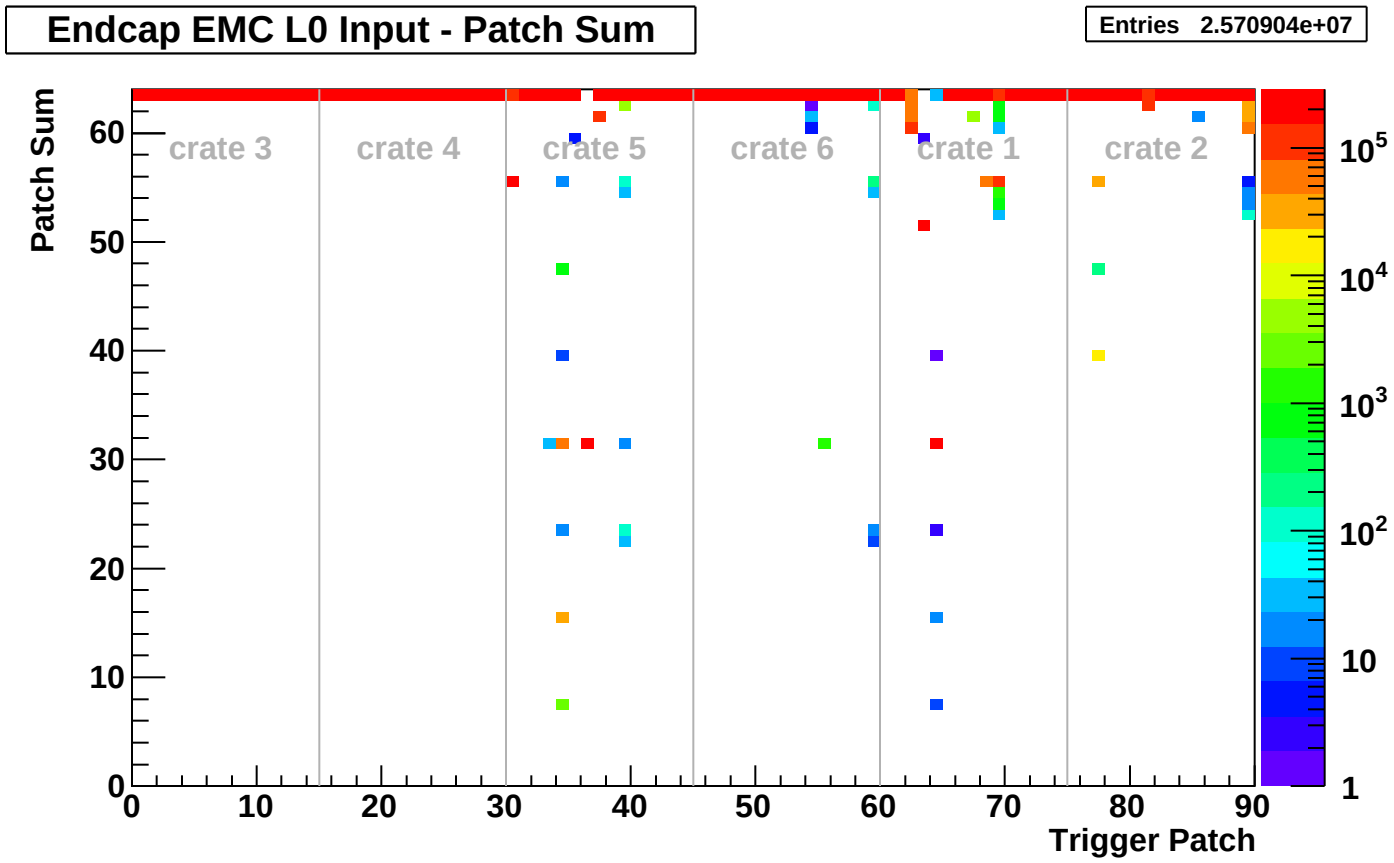

BunchId7Bit (JP1)
Entries 285656
10^3
10^2
10
0
20
40
60
80
100
120

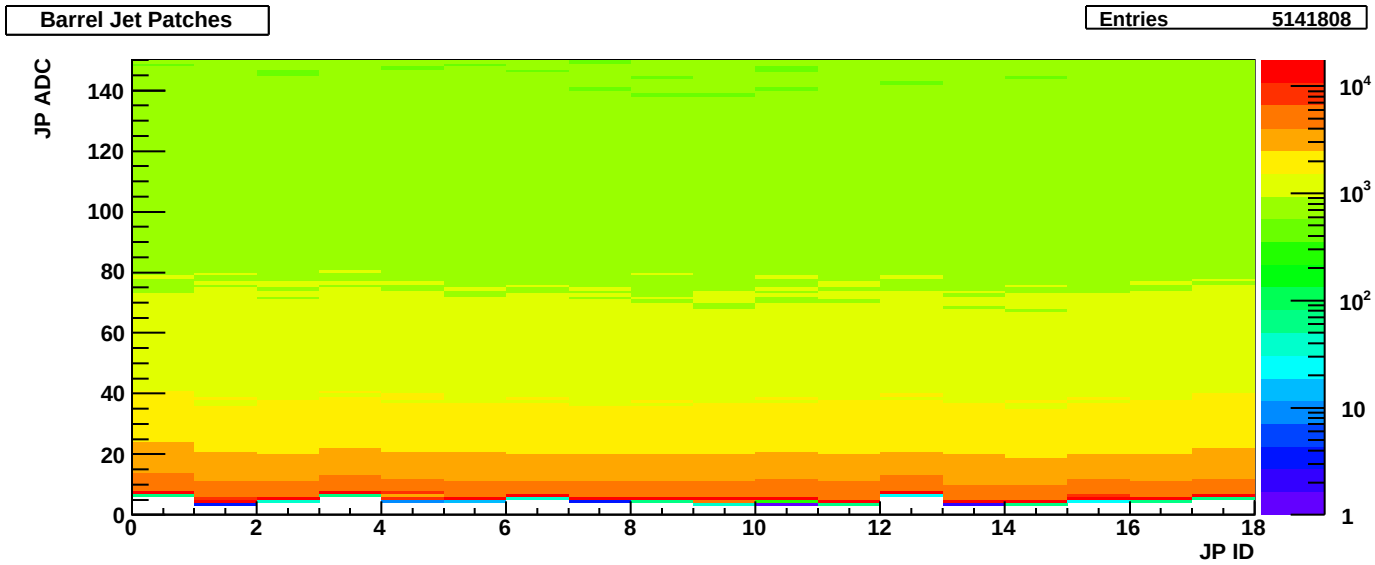

BunchId7Bit (JP2||AJP)
Entries 285656
10^3
10^2
10
0
20
40
60
80
100
120

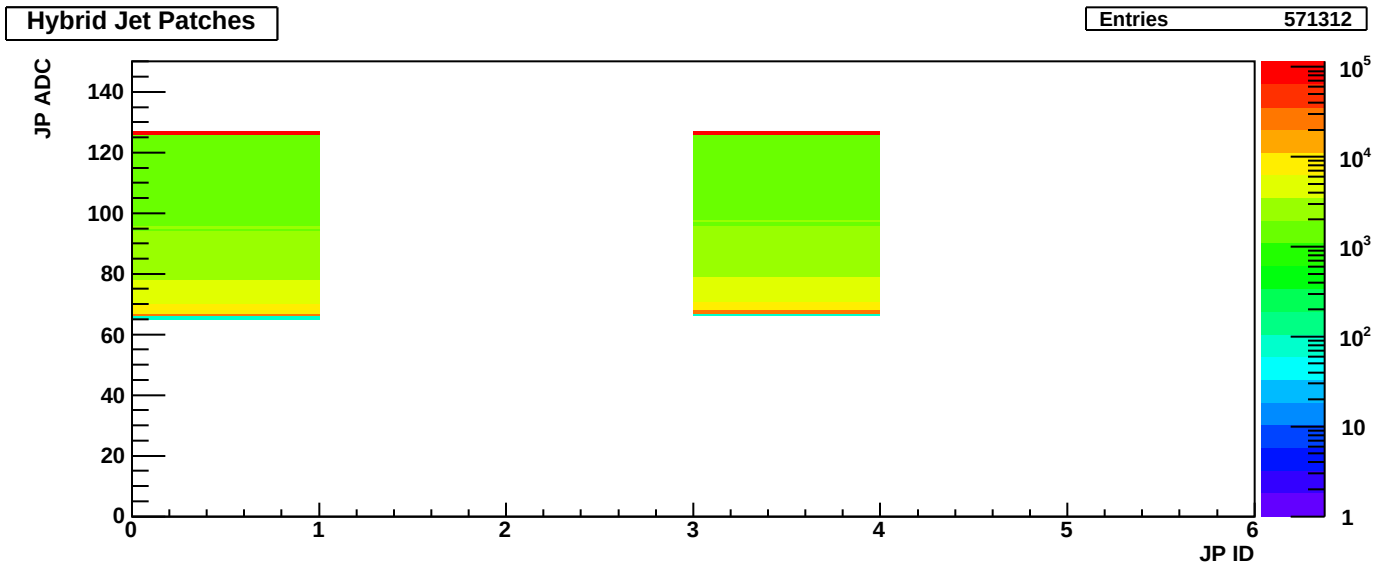

Barrel EMC L0 Input - High Tower
Entries 8.56968e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

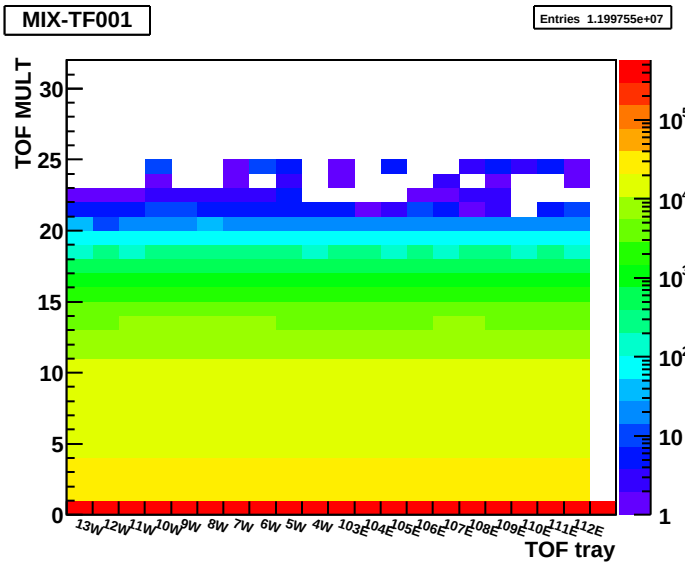

Barrel EMC L0 Input - Patch Sum
Entries 8.56968e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

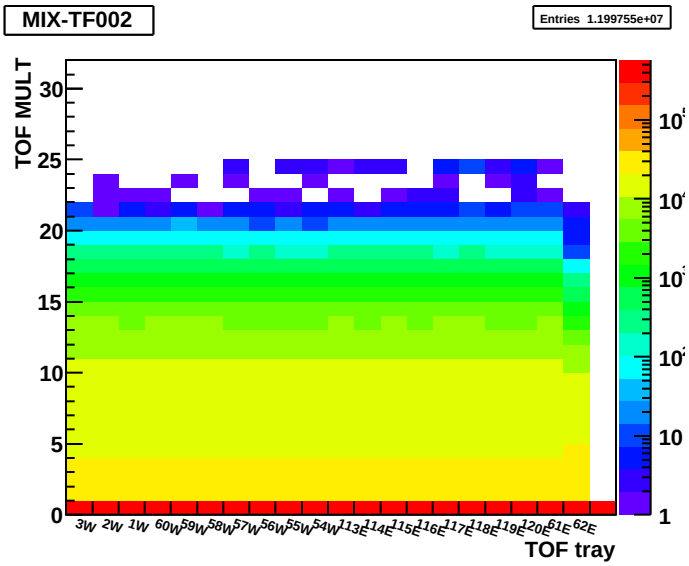

Endcap EMC L0 Input - High Tower
Entries 2.570904e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

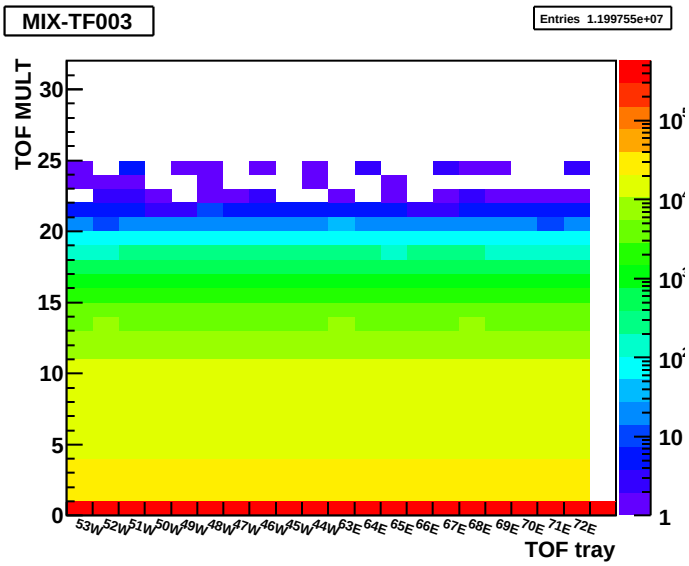

Endcap EMC L0 Input - Patch Sum
Entries 2.570904e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

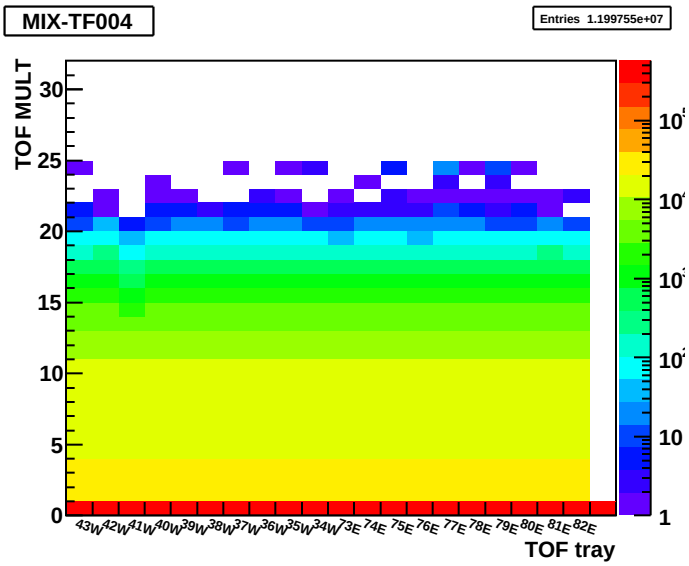

Barrel Jet Patches
Entries 5141808
JP ADC
JP ID

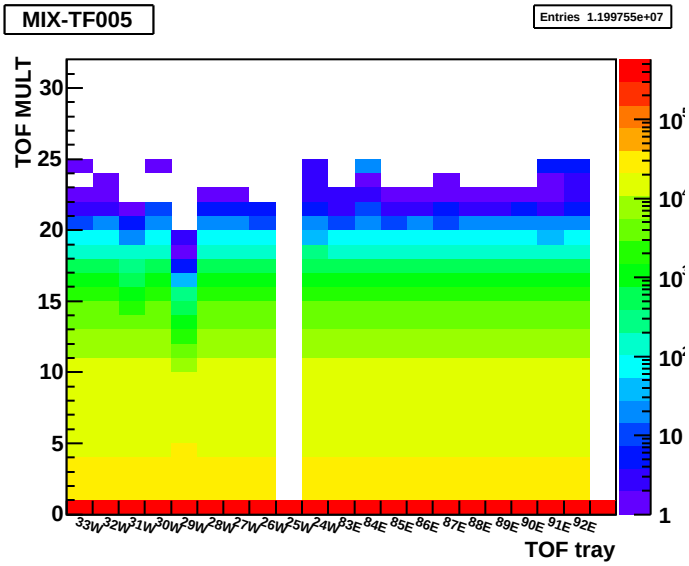

Hybrid Jet Patches
Entries 571312
JP ADC
JP ID

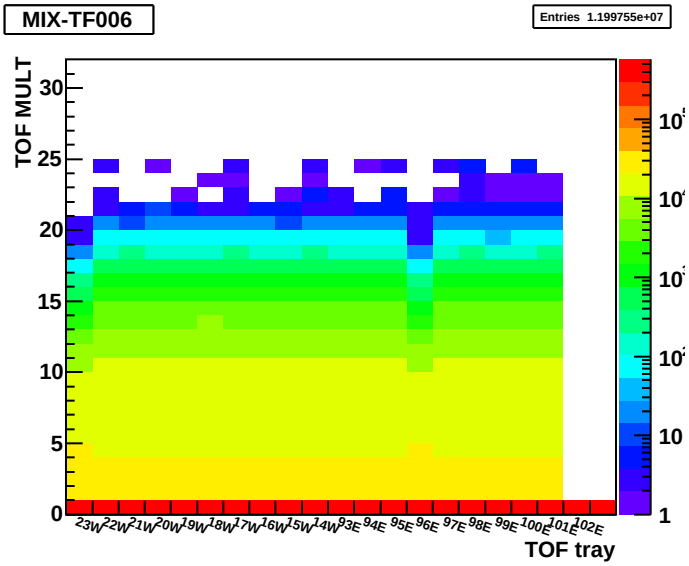

MIX-TF001
Entries 1.199755e+07
TOF MULT
TOF tray

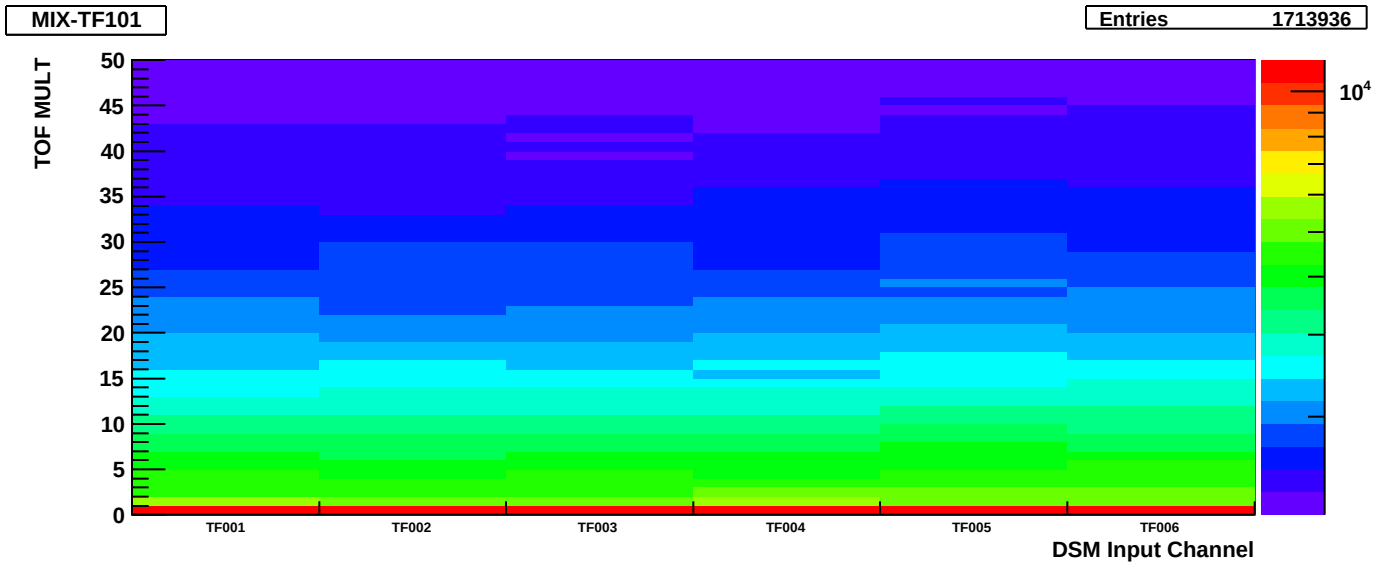

MIX-TF002
Entries 1.199755e+07
TOF MULT
TOF tray

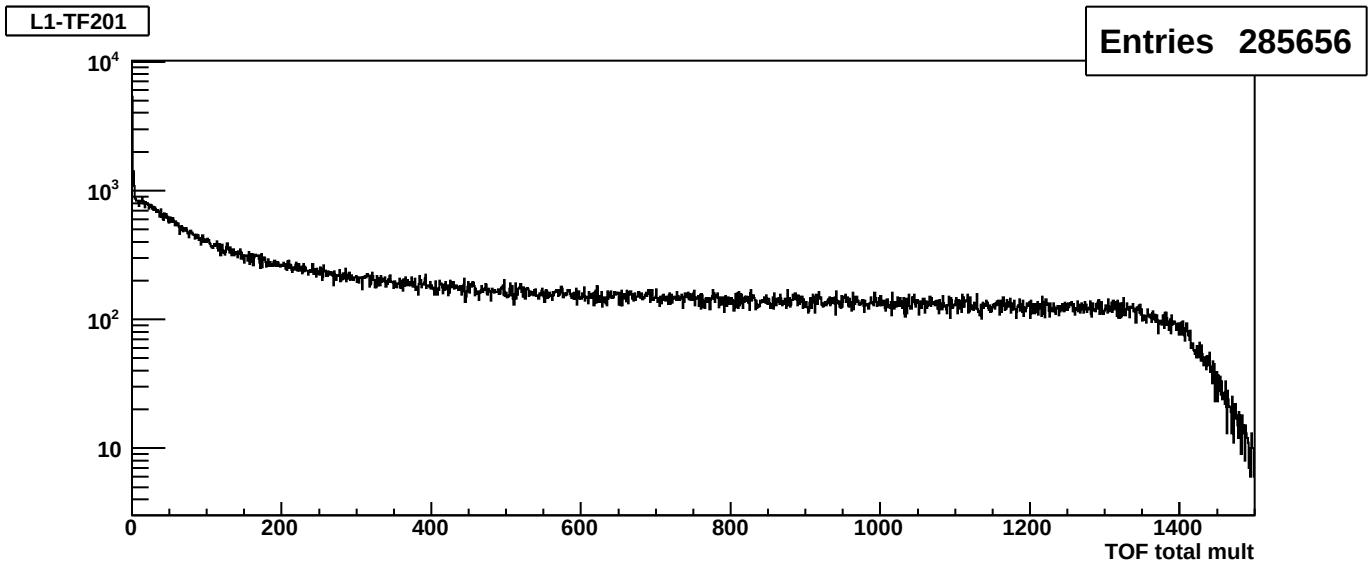

MIX-TF003
Entries 1.199755e+07
TOF MULT
TOF tray

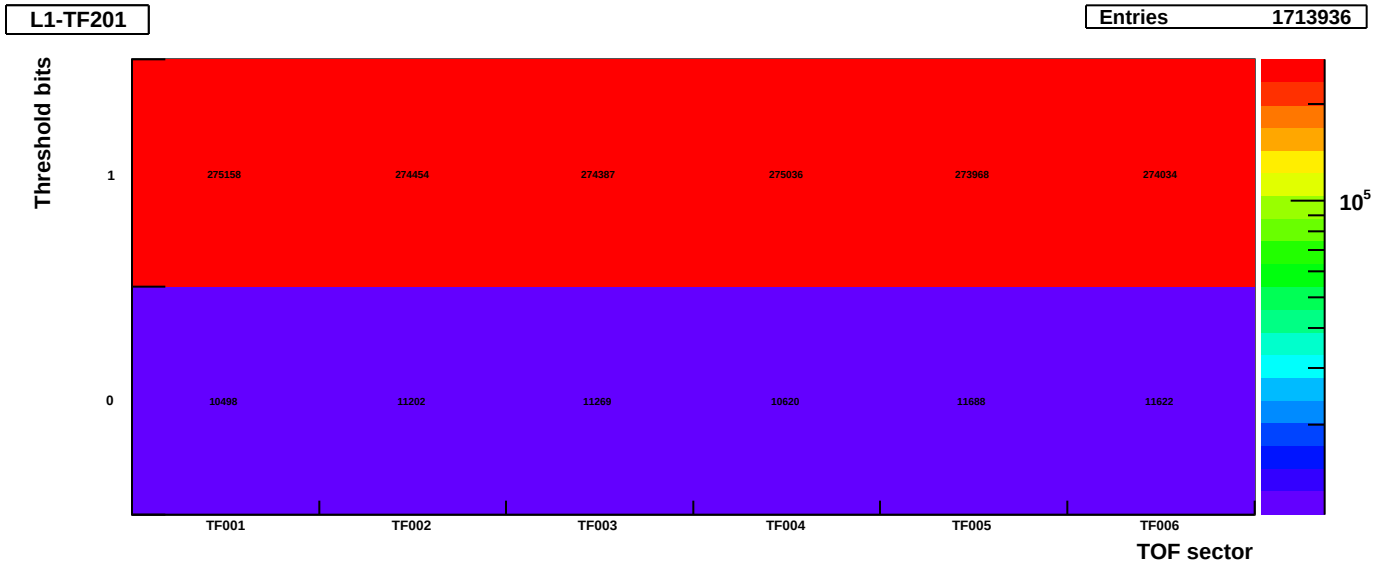

MIX-TF004
Entries 1.199755e+07
TOF MULT
TOF tray

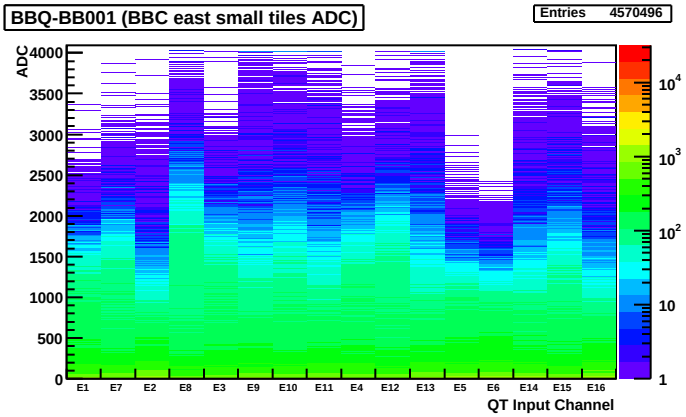

MIX-TF005
Entries 1.199755e+07
TOF MULT
TOF tray

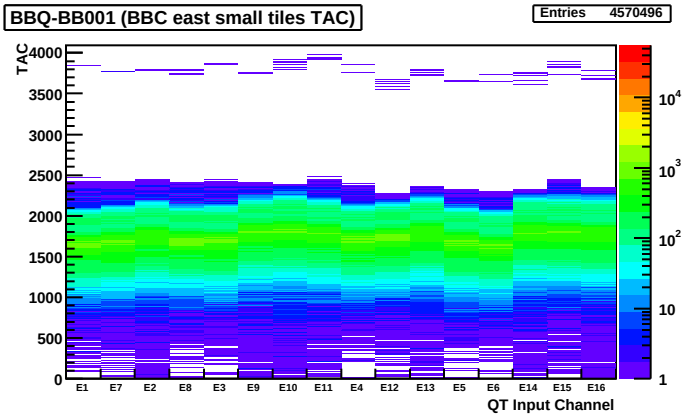

MIX-TF006
Entries 1.199755e+07
TOF MULT
TOF tray

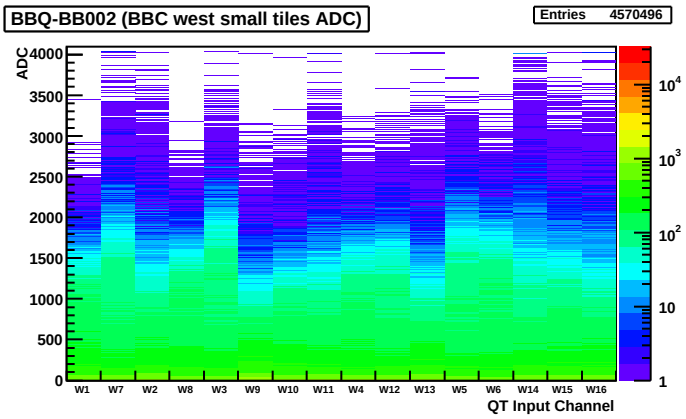

MIX-TF101
Entries 1713936
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

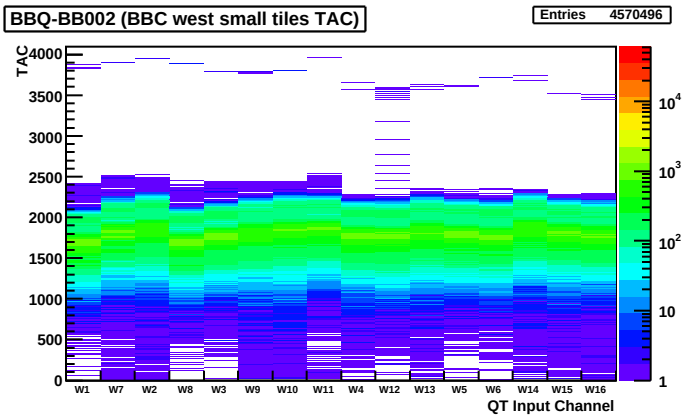

L1-TF201
Entries 285656
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

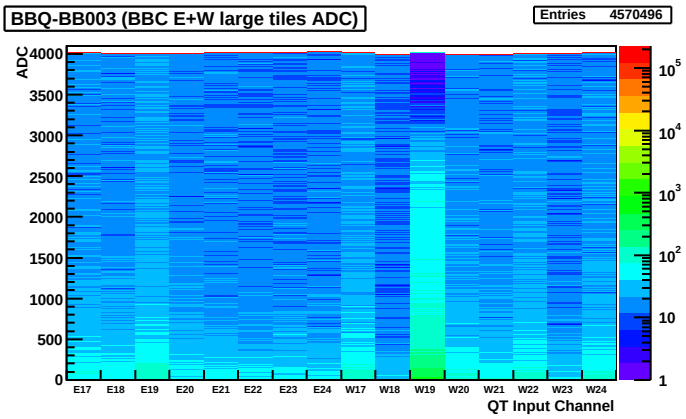

L1-TF201
Entries 1713936
Threshold bits
1
0
275158
274454
274387
275036
273968
274034
10498
11202
11269
10620
11688
11622
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

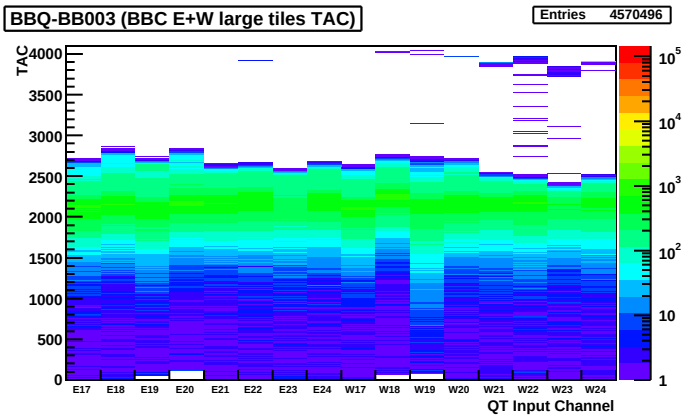

BBQ-BB001 (BBC east small tiles ADC)
Entries 4570496
ADC
QT Input Channel

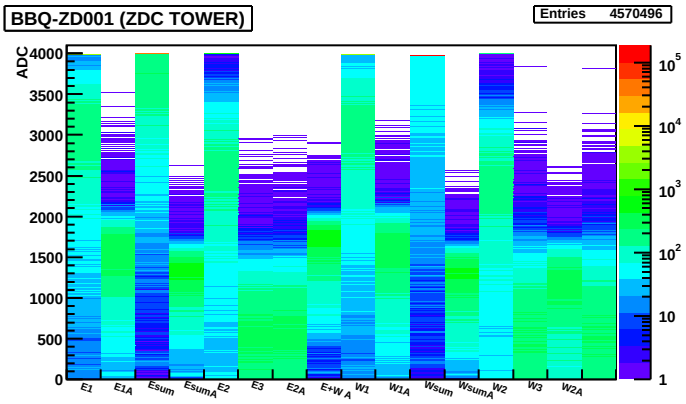

BBQ-BB001 (BBC east small tiles TAC)
Entries 4570496
TAC
QT Input Channel

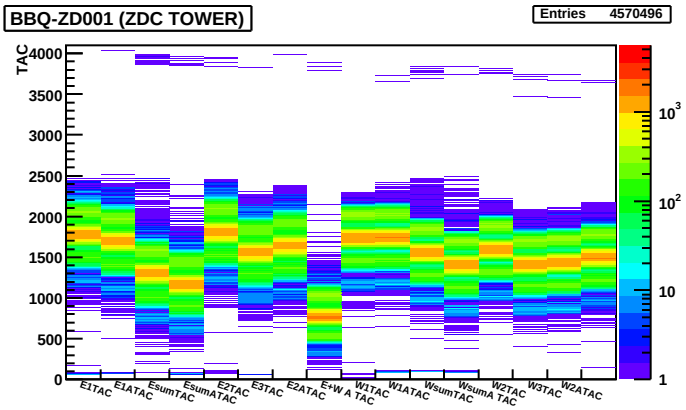

BBQ-BB002 (BBC west small tiles ADC)
Entries 4570496
ADC
QT Input Channel

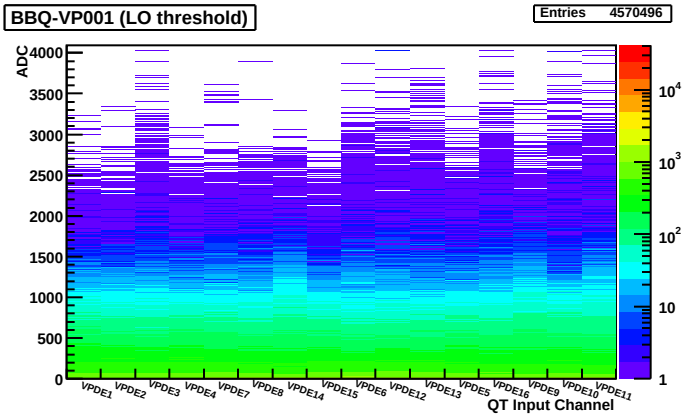

BBQ-BB002 (BBC west small tiles TAC)
Entries 4570496
TAC
QT Input Channel

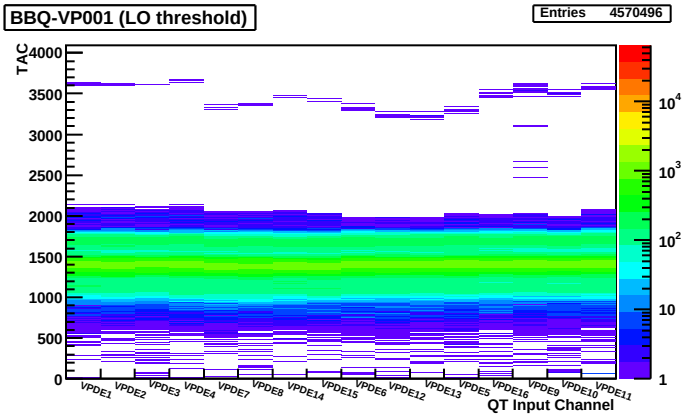

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4570496
ADC
QT Input Channel

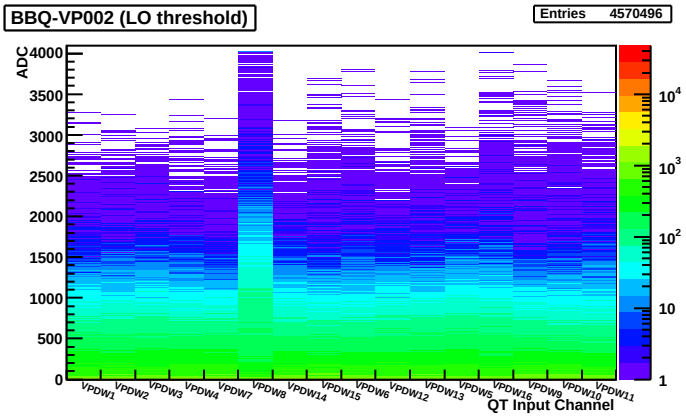

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4570496
TAC
QT Input Channel

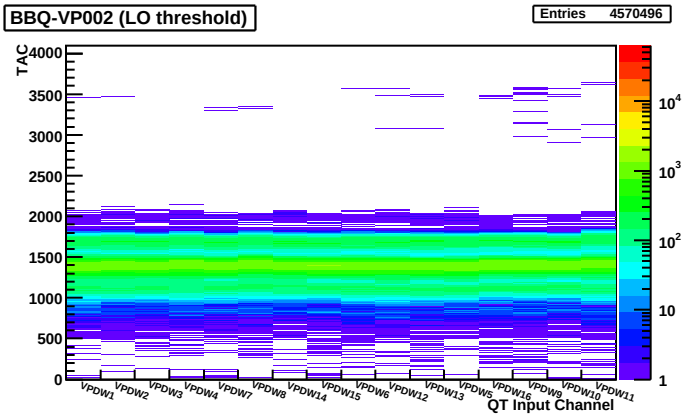

BBQ-ZD001 (ZDC TOWER)
Entries 4570496
ADC

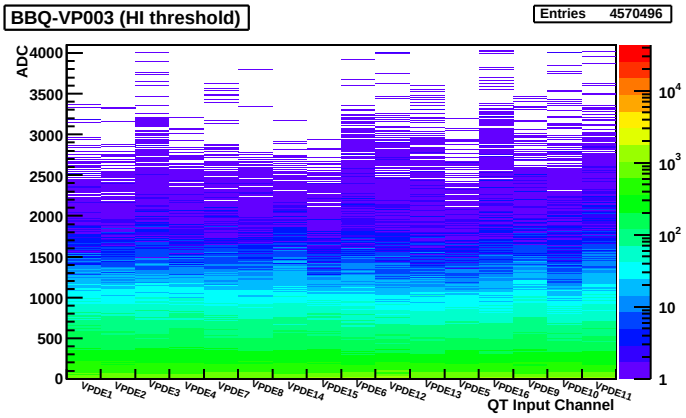

BBQ-ZD001 (ZDC TOWER)
Entries 4570496
TAC

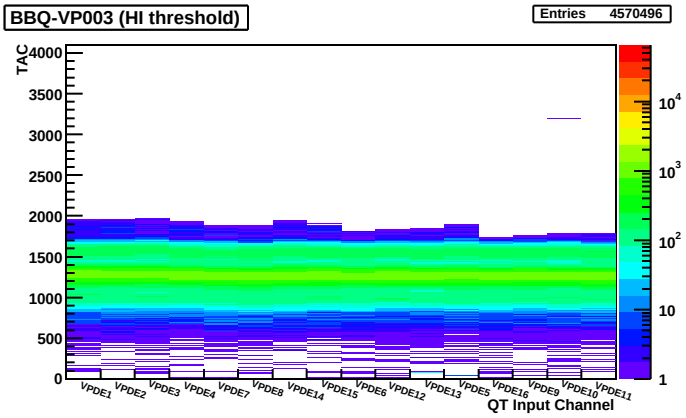

BBQ-VP001 (LO threshold)
Entries 4570496
ADC
QT Input Channel

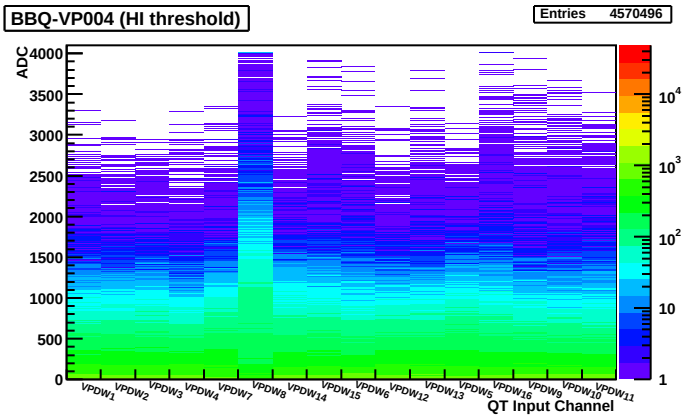

BBQ-VP001 (LO threshold)
Entries 4570496
TAC
QT Input Channel

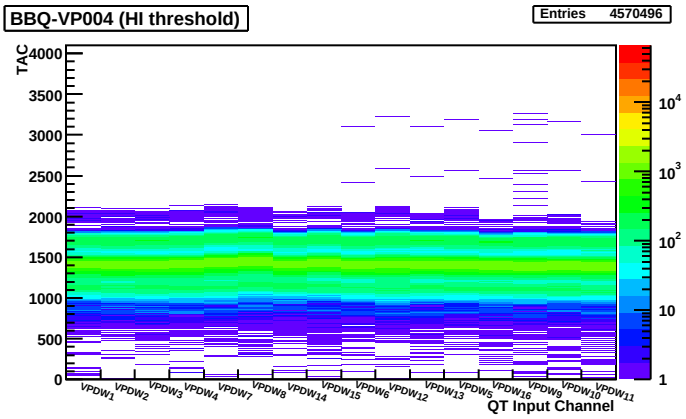

BBQ-VP002 (LO threshold)
Entries 4570496
ADC
QT Input Channel

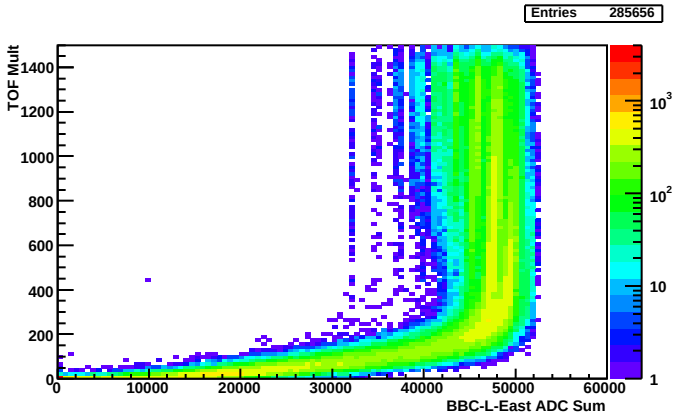

BBQ-VP002 (LO threshold)
Entries 4570496
TAC
QT Input Channel

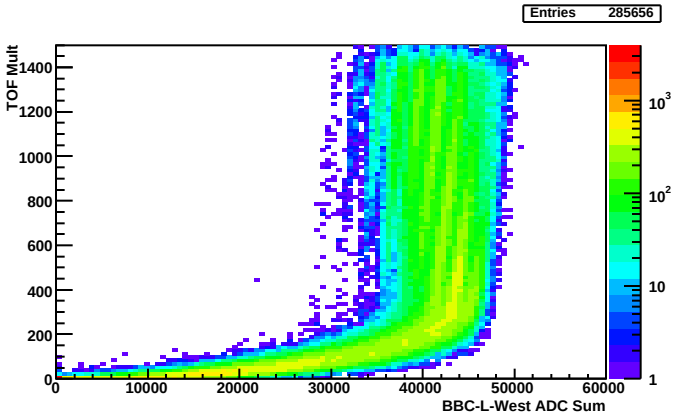

BBQ-VP003 (HI threshold)
Entries 4570496
ADC
QT Input Channel

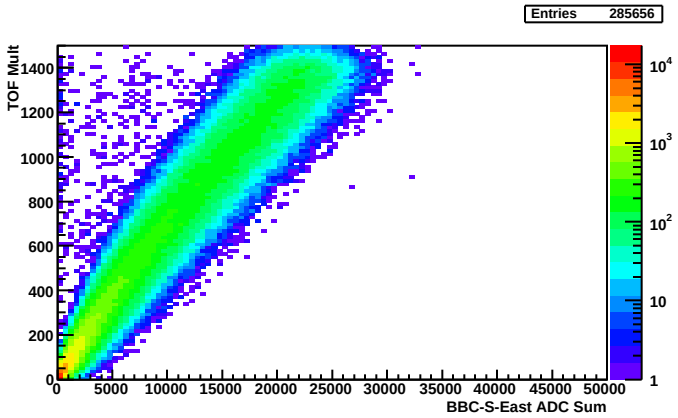

BBQ-VP003 (HI threshold)
Entries 4570496
TAC
QT Input Channel

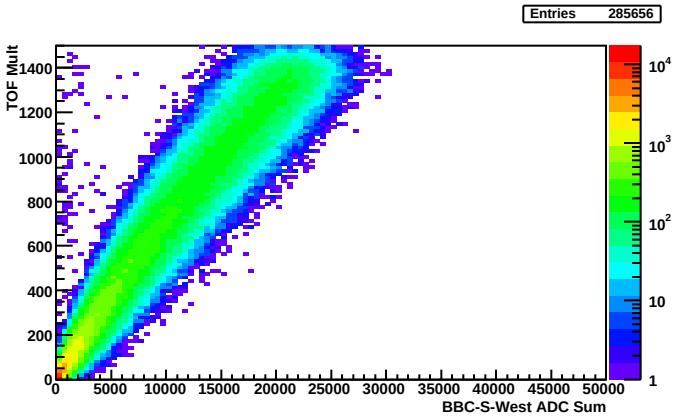

BBQ-VP004 (HI threshold)
Entries 4570496
ADC
QT Input Channel

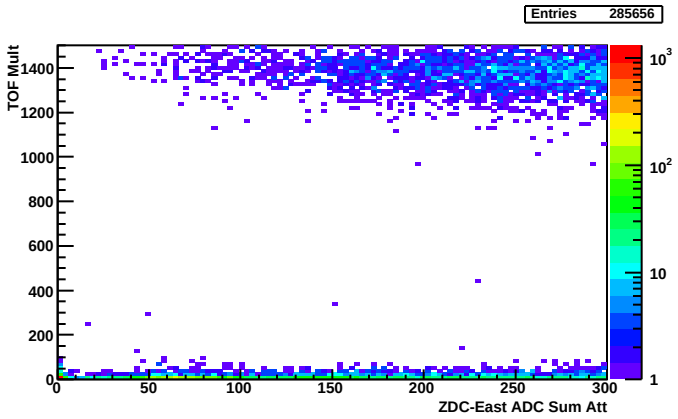

BBQ-VP004 (HI threshold)
Entries 4570496
TAC
QT Input Channel

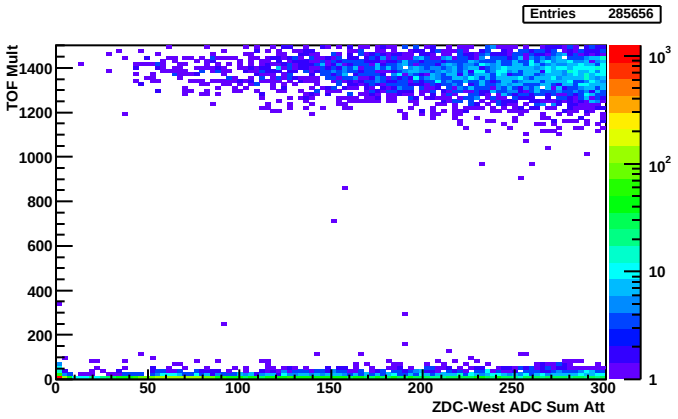

Entries 285656
TOF Mult
BBC-L-East ADC Sum

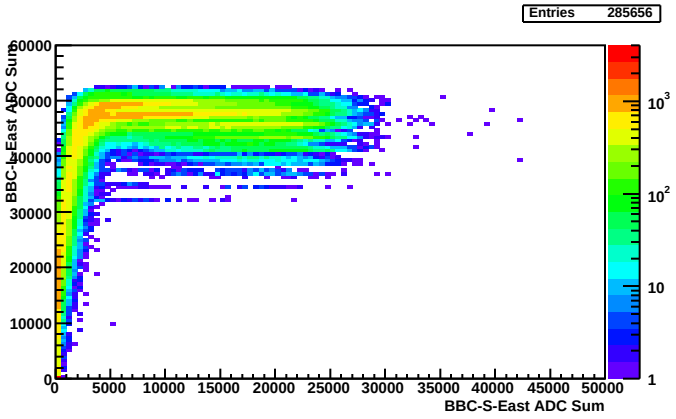

Entries 285656
TOF Mult
BBC-L-West ADC Sum

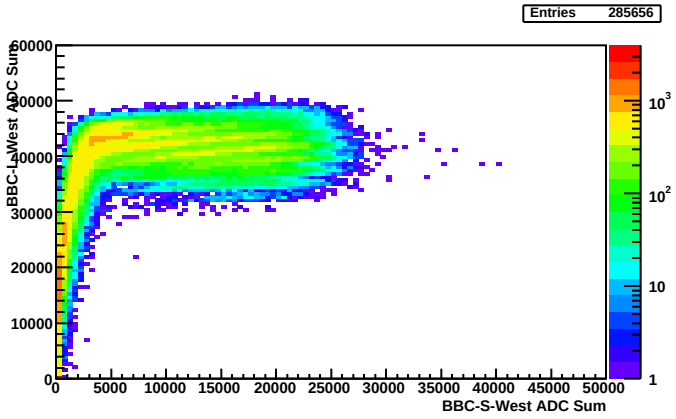

Entries 285656
TOF Mult
BBC-S-East ADC Sum

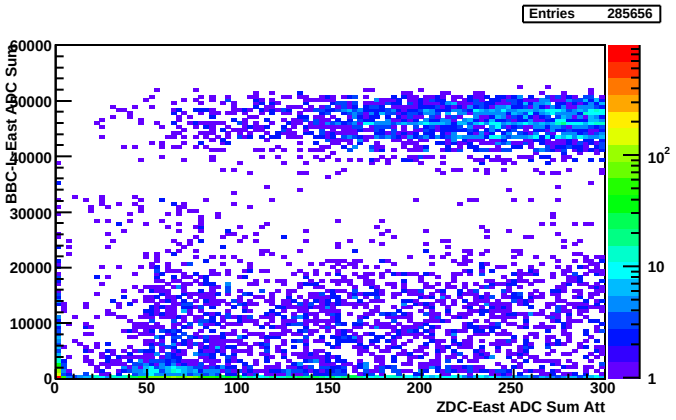

Entries 285656
TOF Mult
BBC-S-West ADC Sum


Entries 285656
TOF Mult
ZDC-East ADC Sum Att


Entries 285656
TOF Mult
ZDC-West ADC Sum Att


Entries 285656
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 285656
BBC-L-West ADC Sum
BBC-S-West ADC Sum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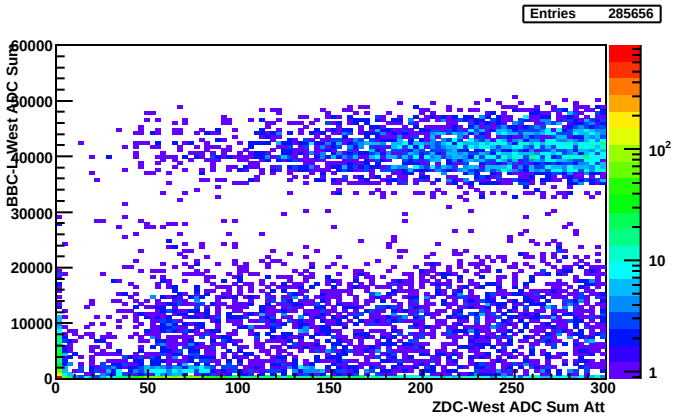
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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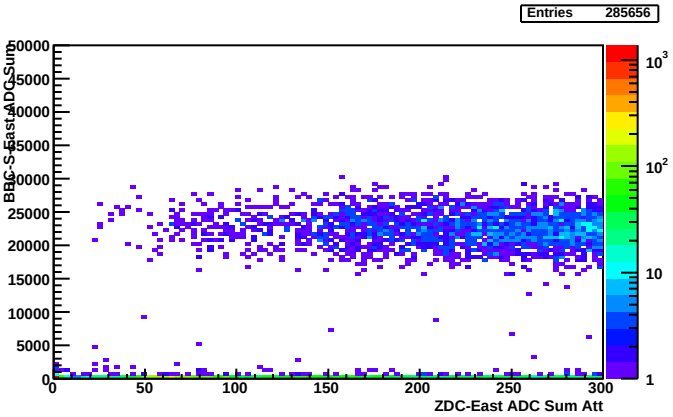
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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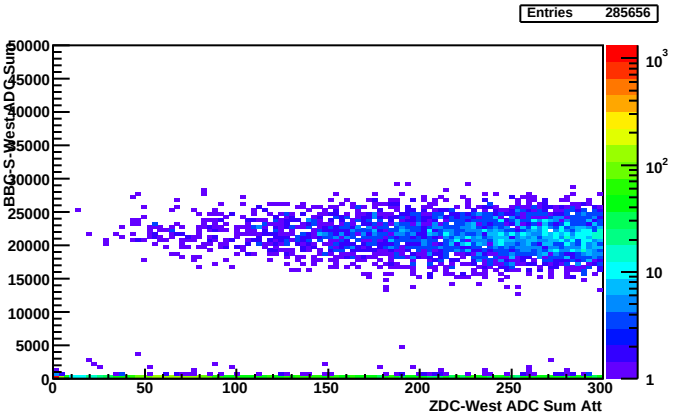
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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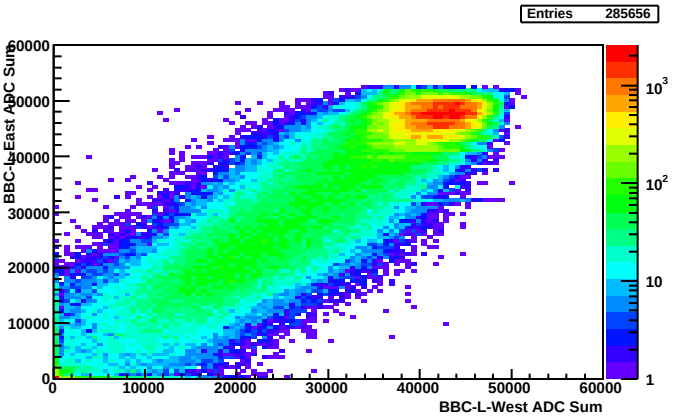
ZDC-West ADC Sum Att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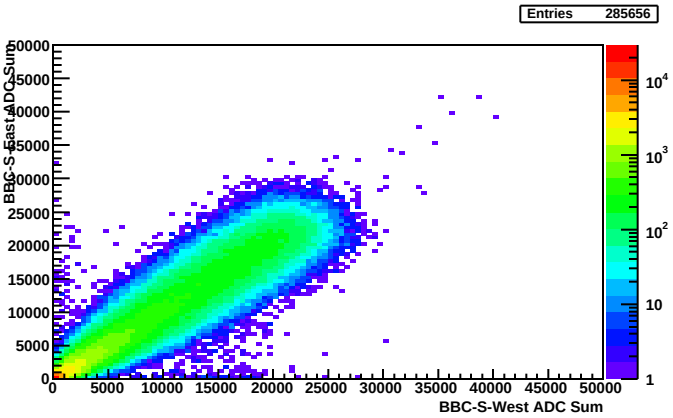
BBC-L-East ADC Sum
BBC-L-West ADC Sum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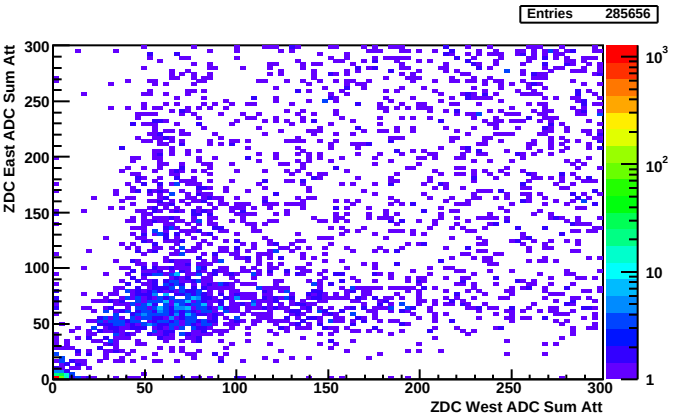
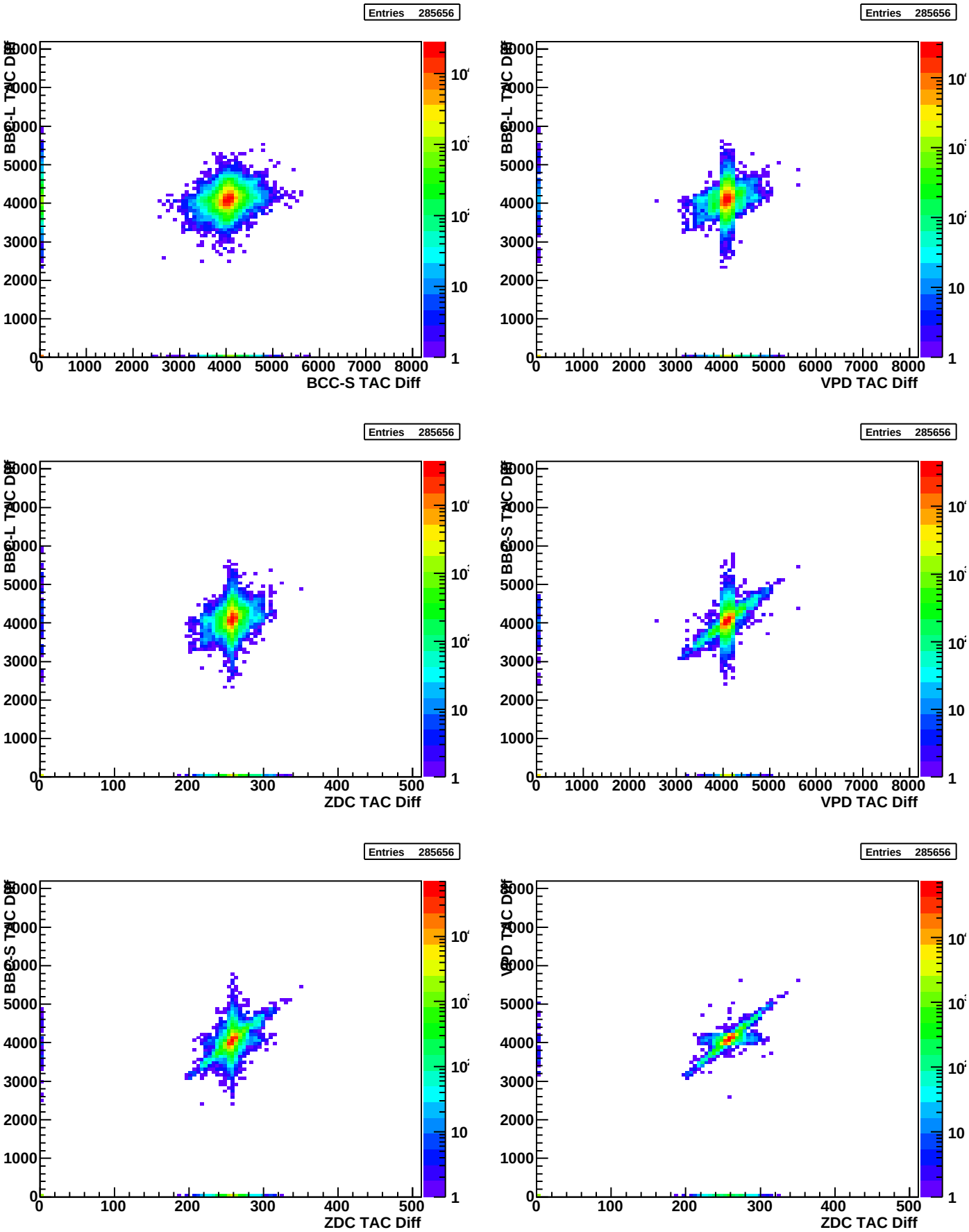
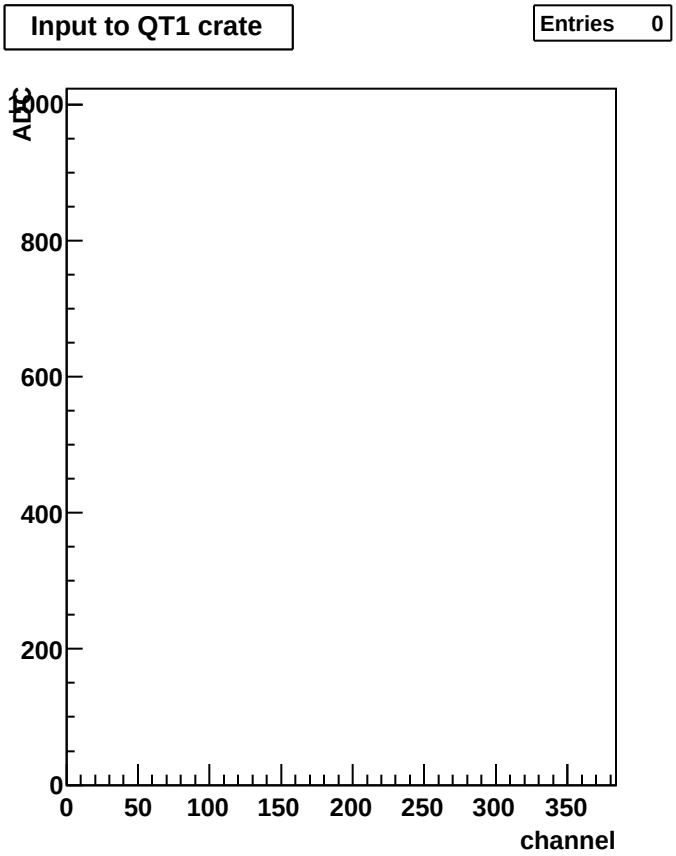
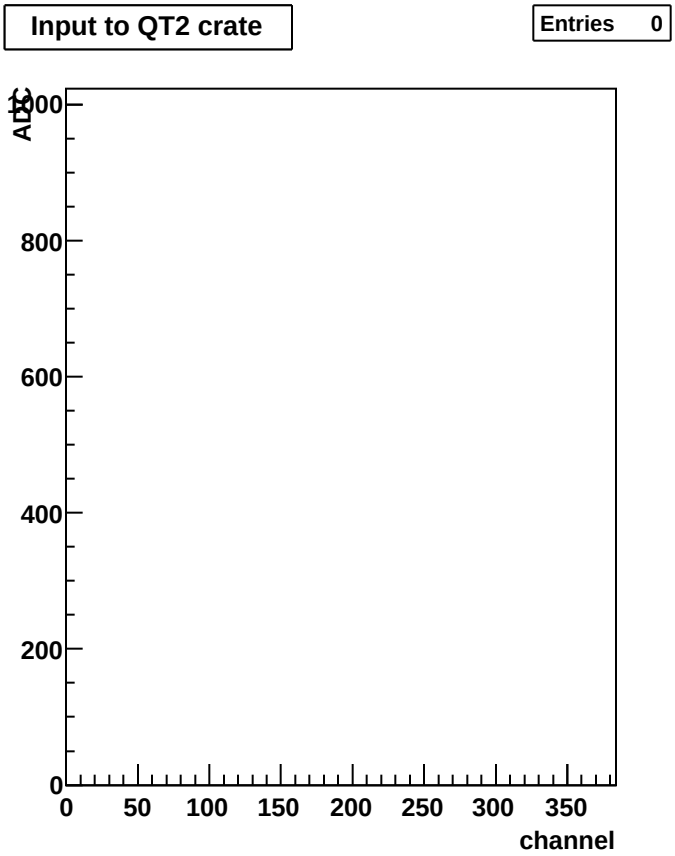
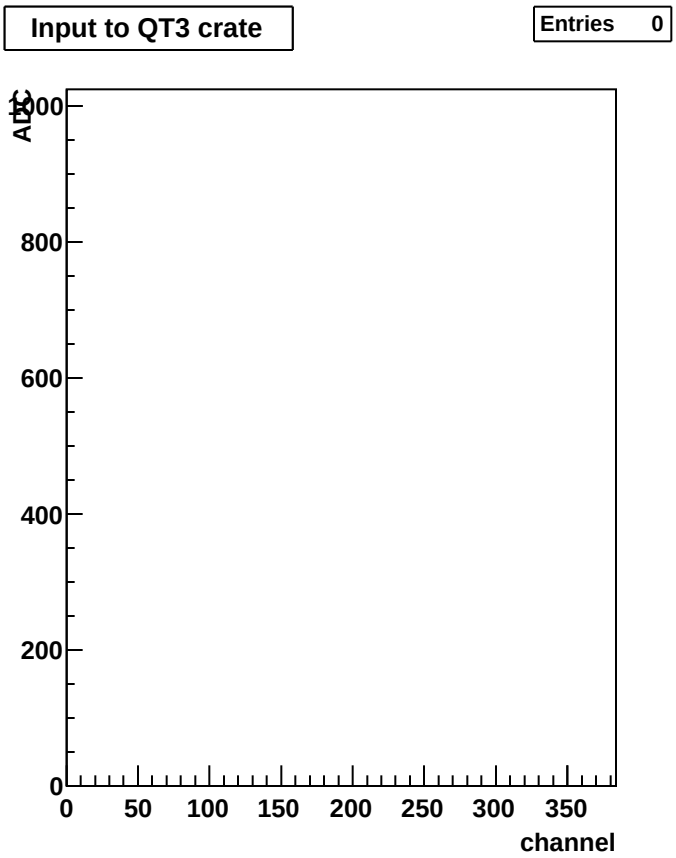
BBC-S-East ADC Sum
BBC-S-West ADC Sum

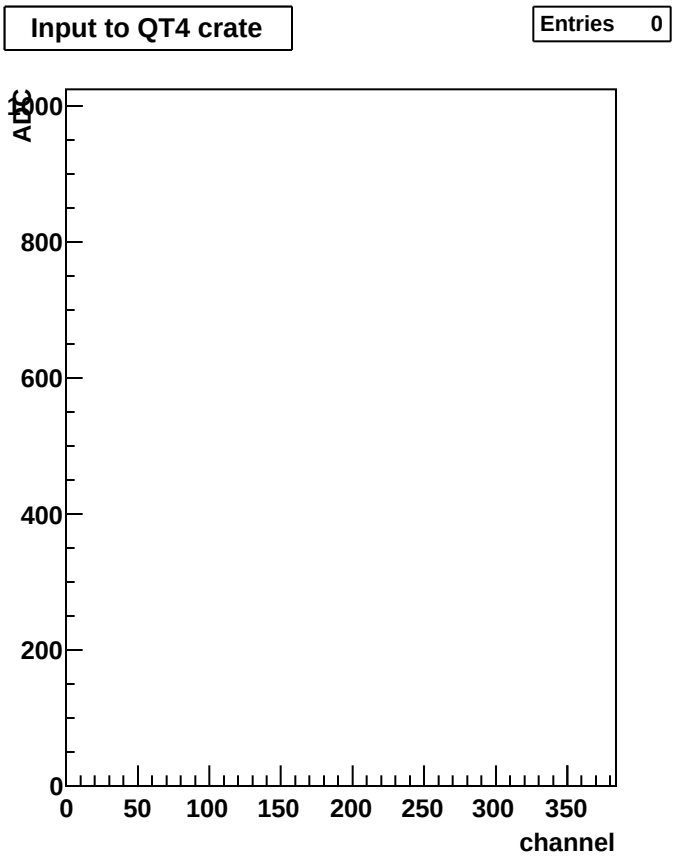

Entries 285656
ZDC East ADC Sum Att
ZDC West ADC Sum Att

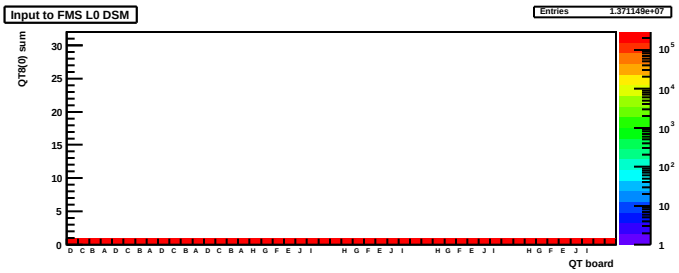

Entries 285656
BBC-L TAC Diff
BCC-S TAC Diff
Entries 285656
BBC-L TAC Diff
VPD TAC Diff
Entries 285656
BBC-L TAC Diff
ZDC TAC Diff
Entries 285656
BBC-S TAC Diff
VPD TAC Diff
Entries 285656
BBC-S TAC Diff
ZDC TAC Diff
Entries 285656
VPD TAC Diff
ZDC TAC Diff

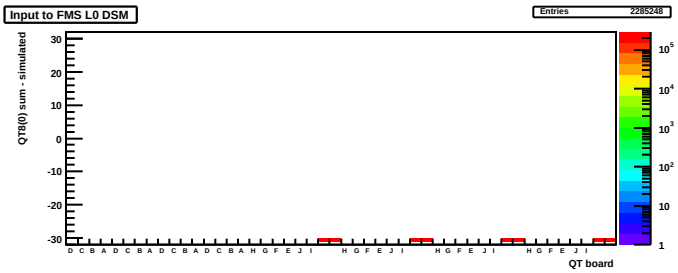

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

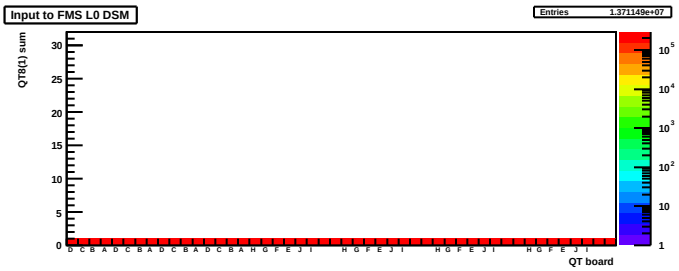

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

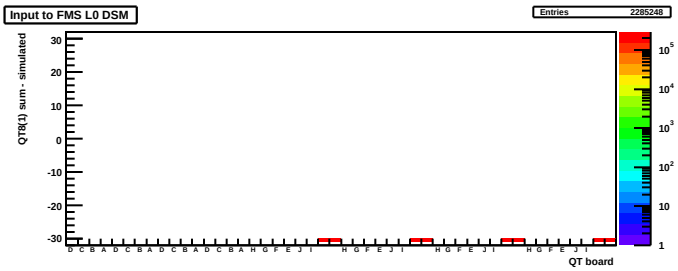

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

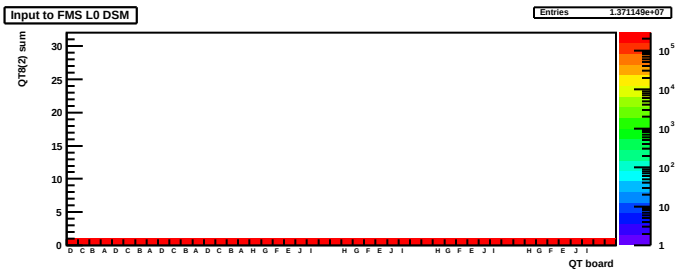

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

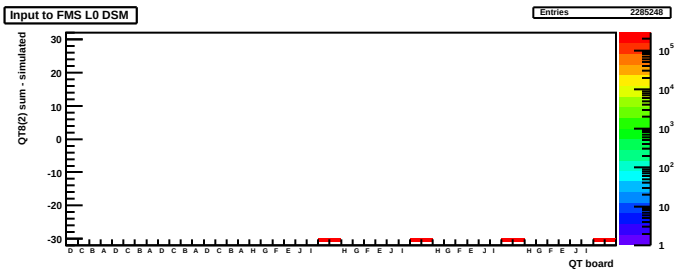

Input to FMS L0 DSM
Entries 1.371149e+07
QT8(0) sum
QT board

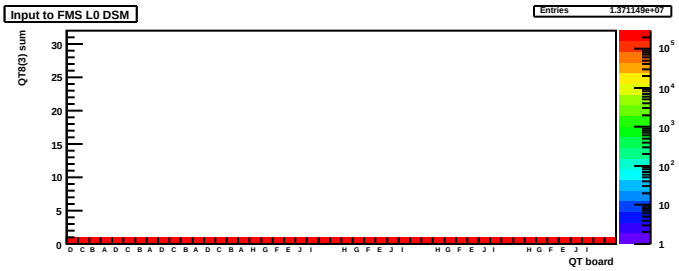

Input to FMS L0 DSM
Entries 2285248
QT8(0) sum - simulated
QT board

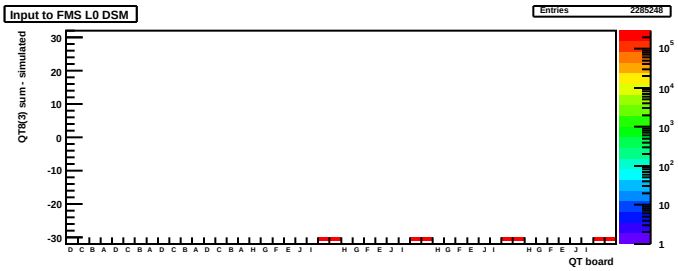

Input to FMS L0 DSM
Entries 1.371149e+07
QT8(1) sum
QT board

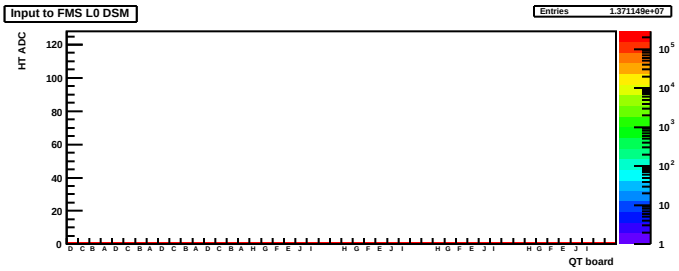

Input to FMS L0 DSM
Entries 2285248
QT8(1) sum - simulated
QT board

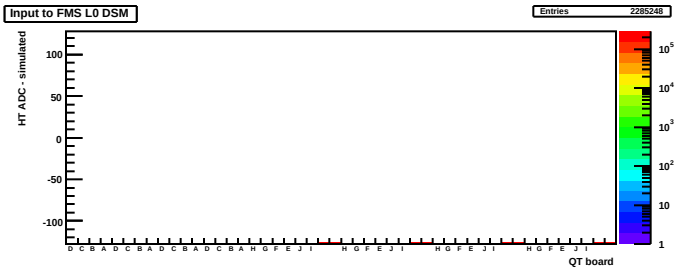

Input to FMS L0 DSM
Entries 1.371149e+07
QT8(2) sum
QT board

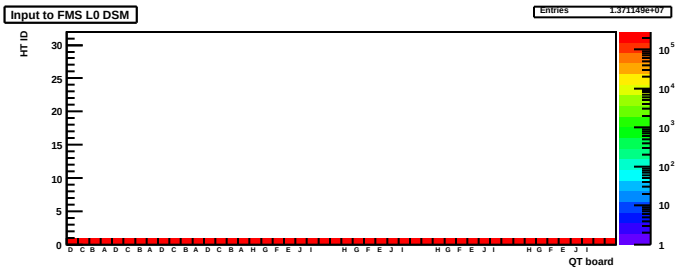

Input to FMS L0 DSM
Entries 2285248
QT8(2) sum - simulated
QT board

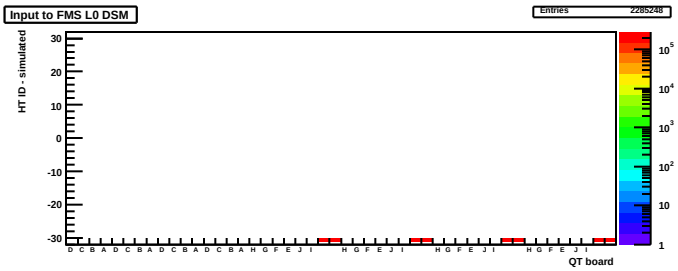

Input to FMS L0 DSM
Entries 1.371149e+07
QT8(3) sum
QT board

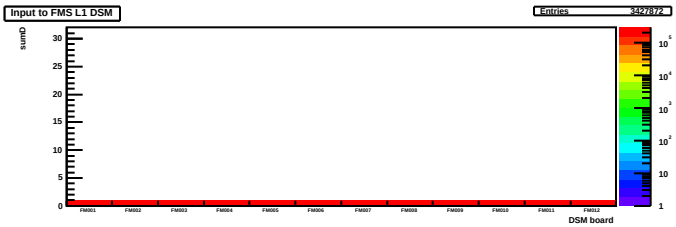

Input to FMS L0 DSM
Entries 2285248
QT8(3) sum - simulated
QT board

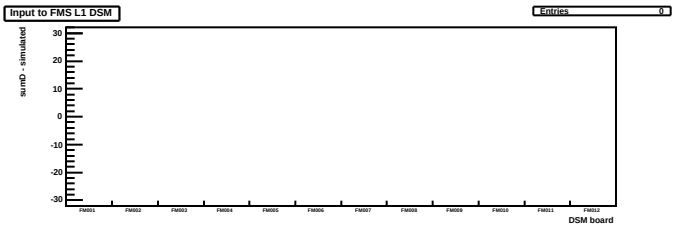

Input to FMS L0 DSM
Entries 1.371149e+07
HT ADC
QT board

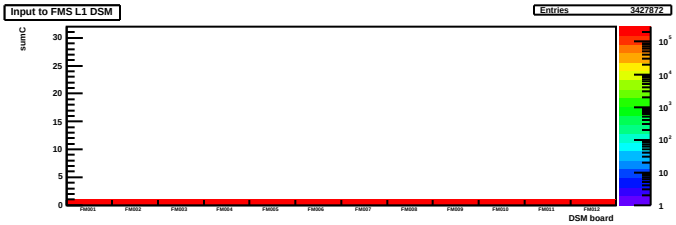

Input to FMS L0 DSM
Entries 2285248
HT ADC - simulated
QT board

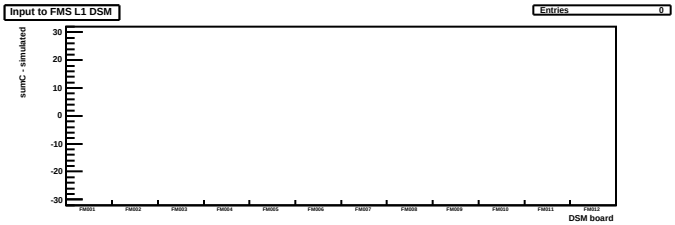

Input to FMS L0 DSM
Entries 1.371149e+07
HT ID
QT board

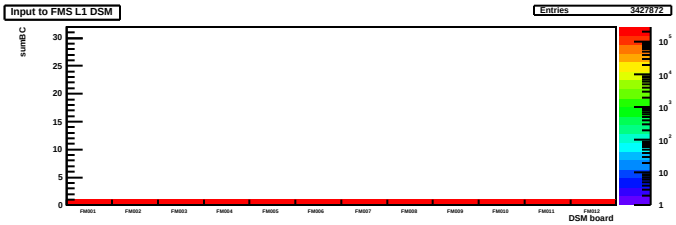

Input to FMS L0 DSM
Entries 2285248
HT ID - simulated
QT board

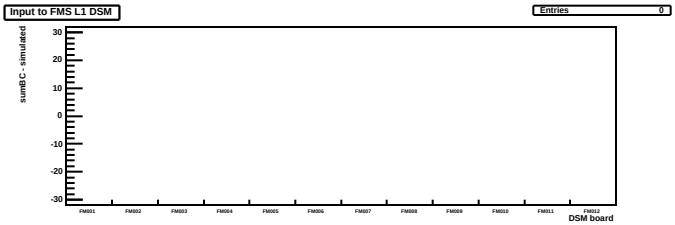

Input to FMS L1 DSM
Entries 3427872
sumD
DSM board

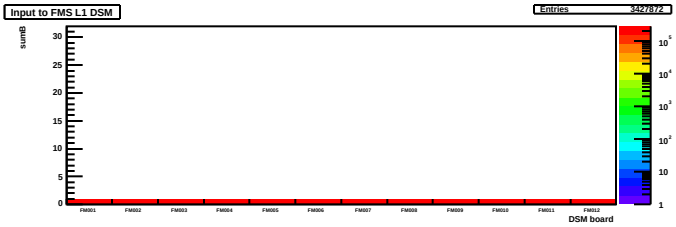

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

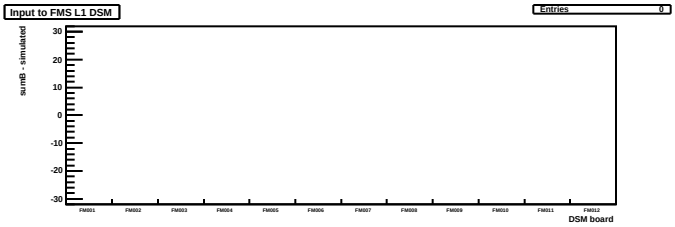

Input to FMS L1 DSM
Entries 3427872
sumC
DSM board

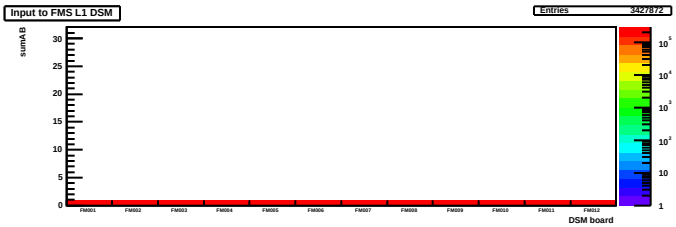

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

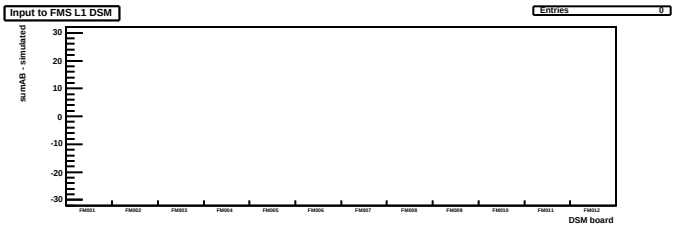

Input to FMS L1 DSM
Entries 3427872
sumBC
DSM board

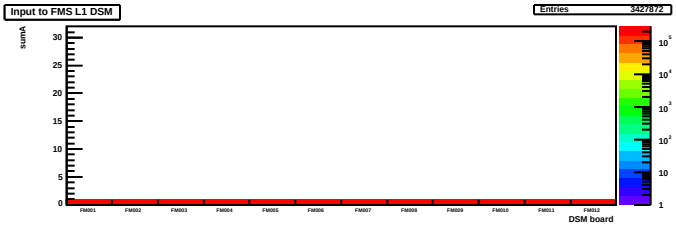

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

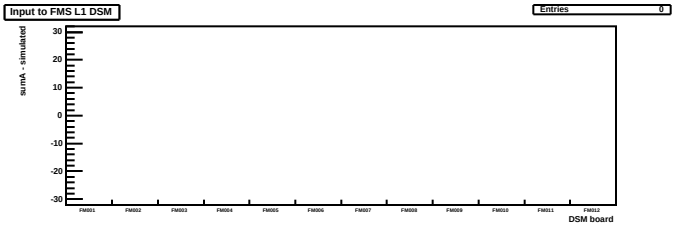

Input to FMS L1 DSM
Entries 3427872
sumB
DSM board

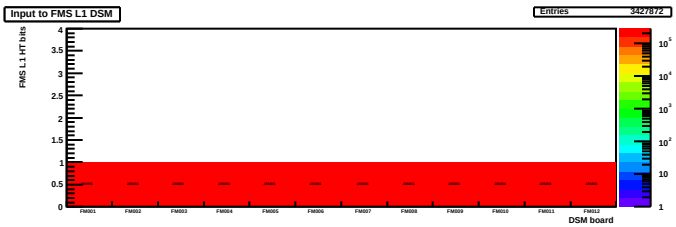

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

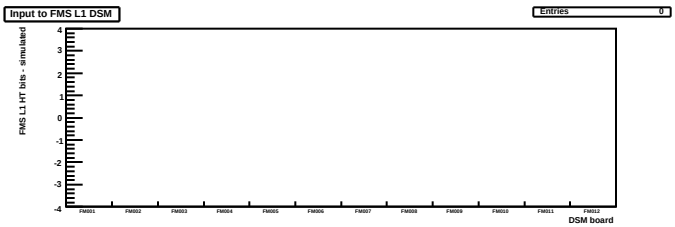

Input to FMS L1 DSM
Entries 3427872
sumAB
DSM board

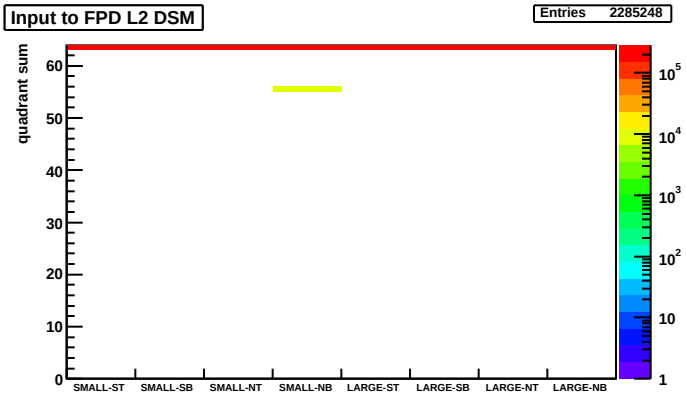

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

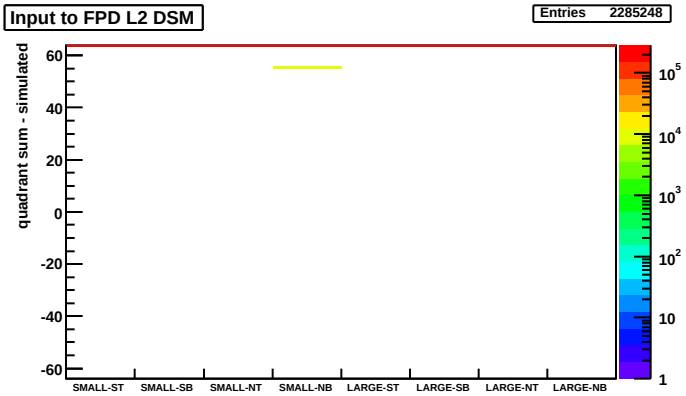

Input to FMS L1 DSM
Entries 3427872
sumA
DSM board

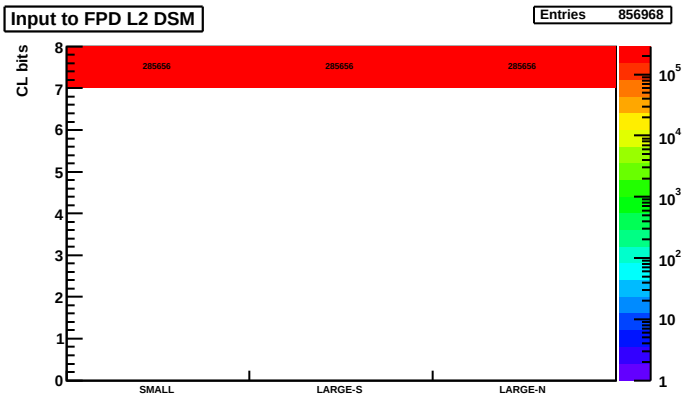

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

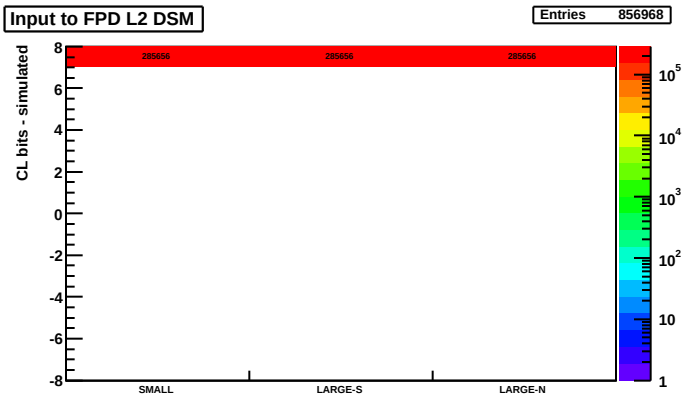

Input to FMS L1 DSM
Entries 3427872
FMS L1 HT bits
DSM board

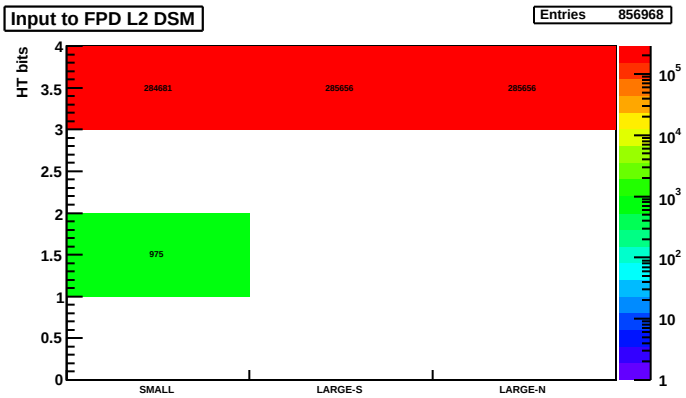

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

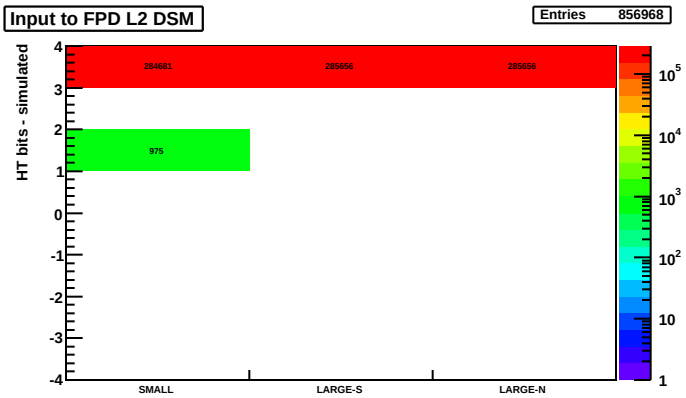

Input to FPD L2 DSM
Entries 2285248
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

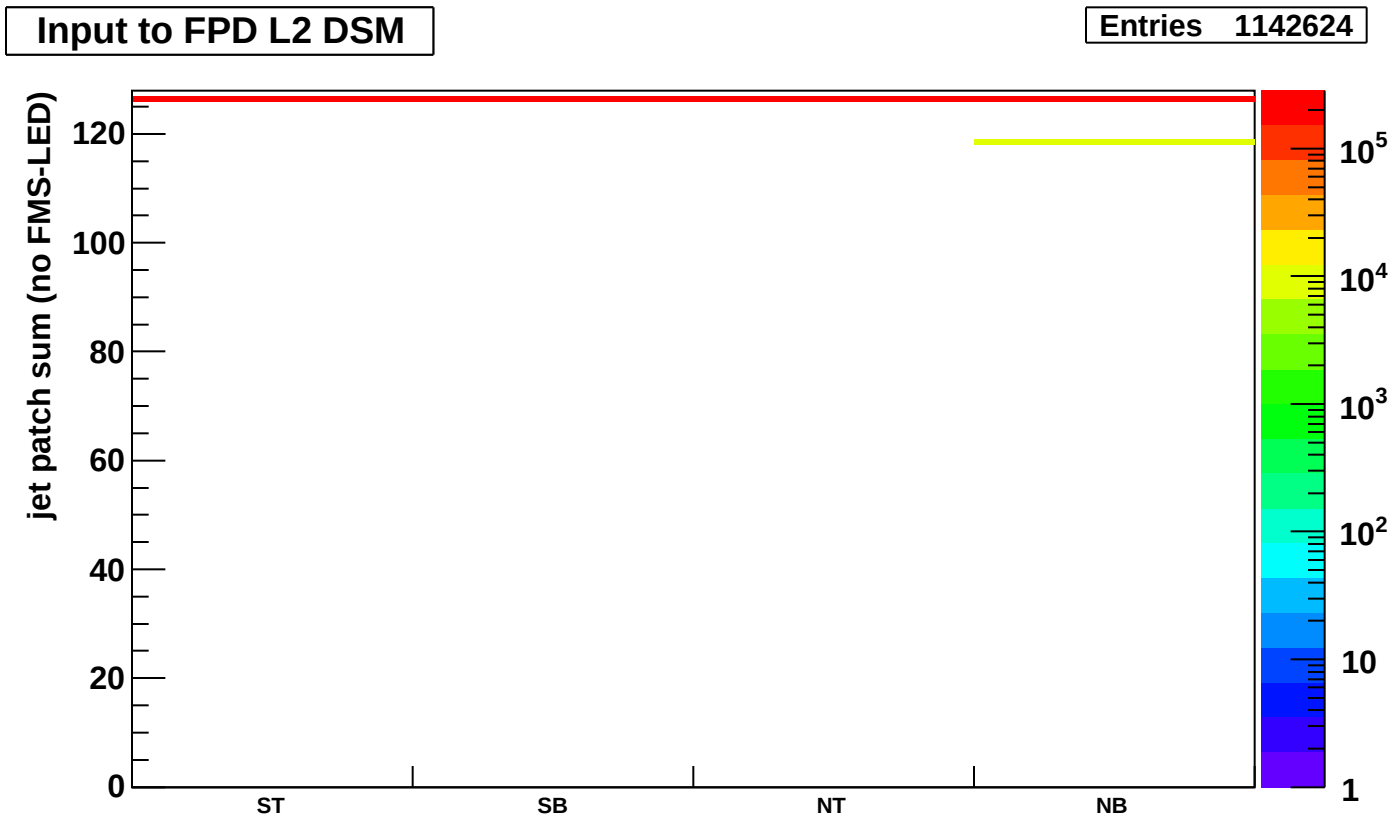

Input to FPD L2 DSM
Entries 2285248
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

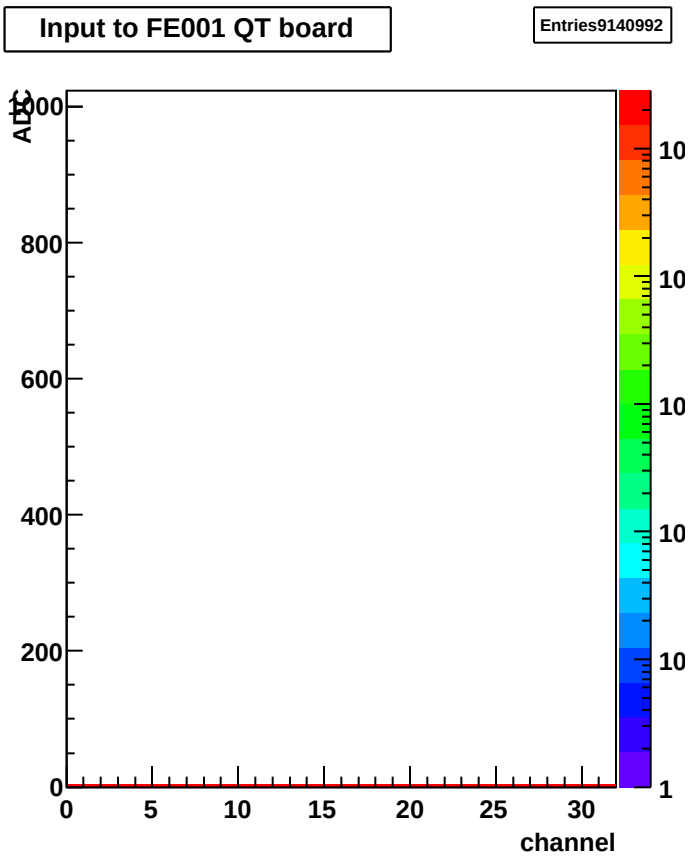

Input to FPD L2 DSM
Entries 856968
CL bits
285656
285656
285656
SMALL
LARGE-S
LARGE-N

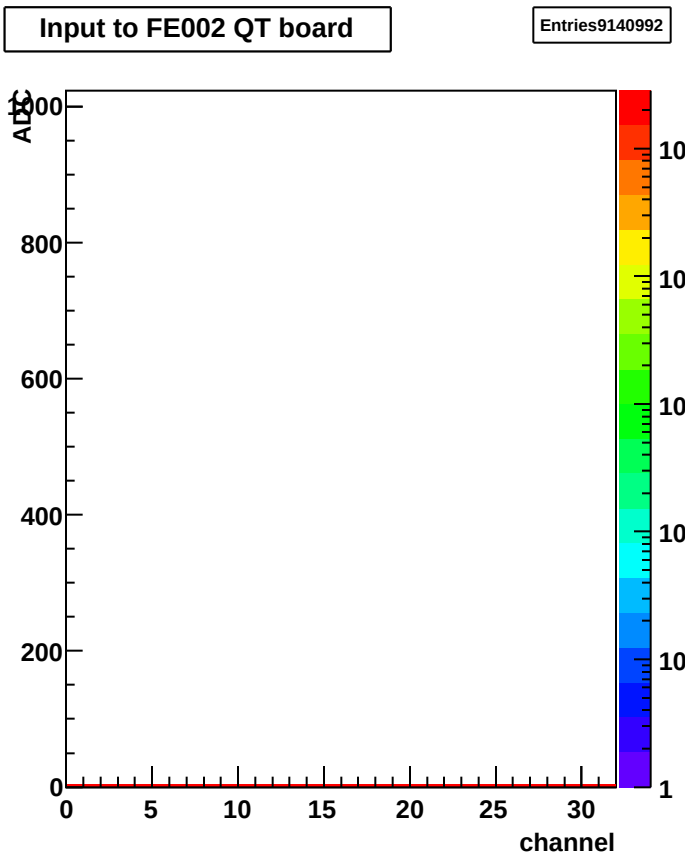

Input to FPD L2 DSM
Entries 856968
CL bits - simulated
285656
285656
285656
SMALL
LARGE-S
LARGE-N

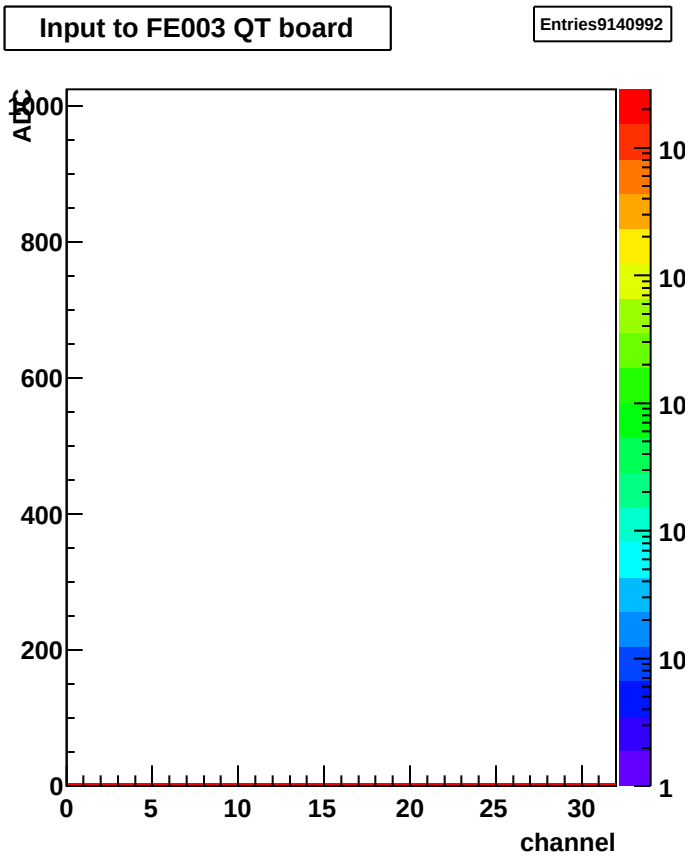

Input to FPD L2 DSM
Entries 856968
HT bits
284681
285656
285656
975
SMALL
LARGE-S
LARGE-N

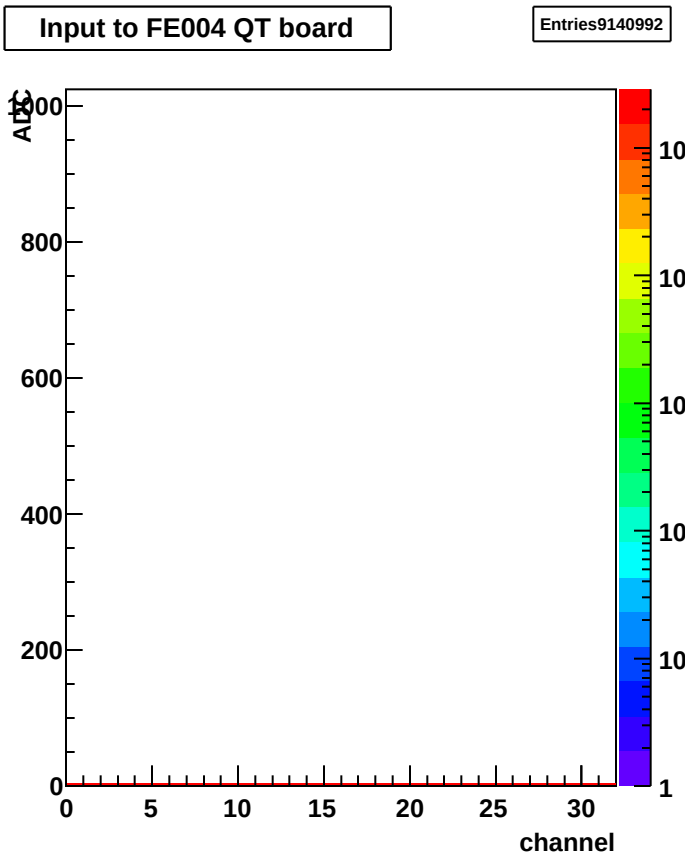

Input to FPD L2 DSM
Entries 856968
HT bits - simulated
284681
285656
285656
975
SMALL
LARGE-S
LARGE-N

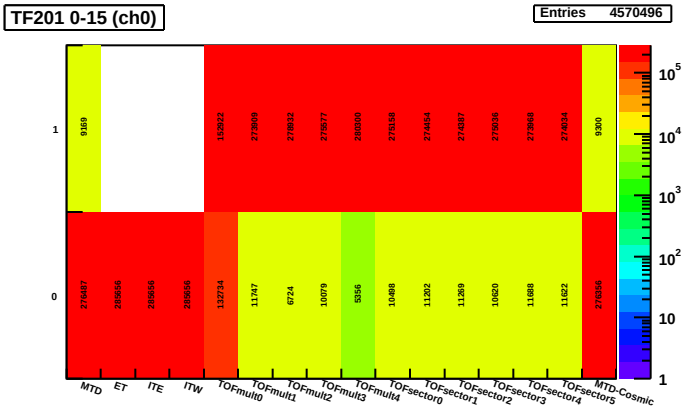

Input to FPD L2 DSM
Entries 1142624
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

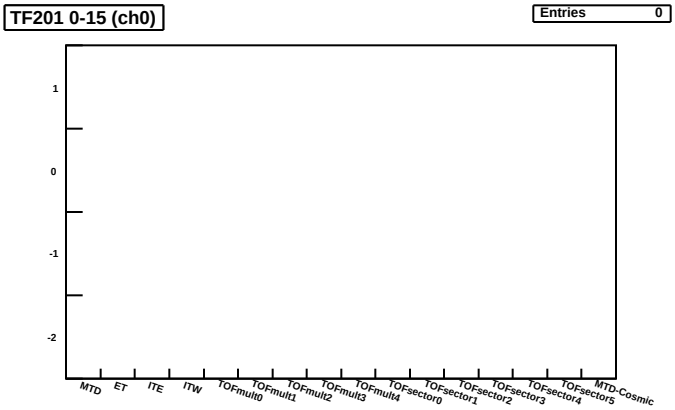

Input to FE001 QT board
Entries9140992
ADC
channel

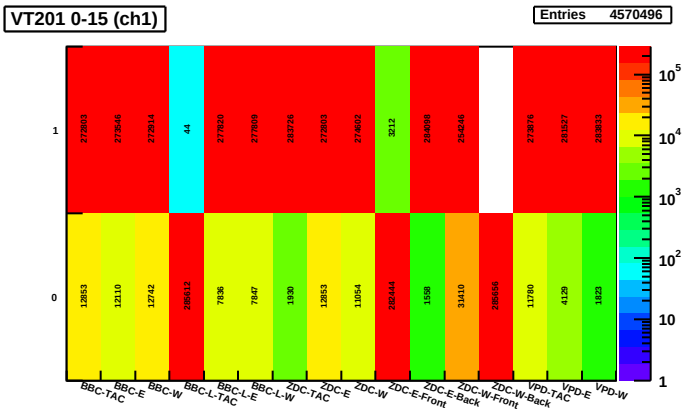

Input to FE002 QT board
Entries9140992
ADC
channel

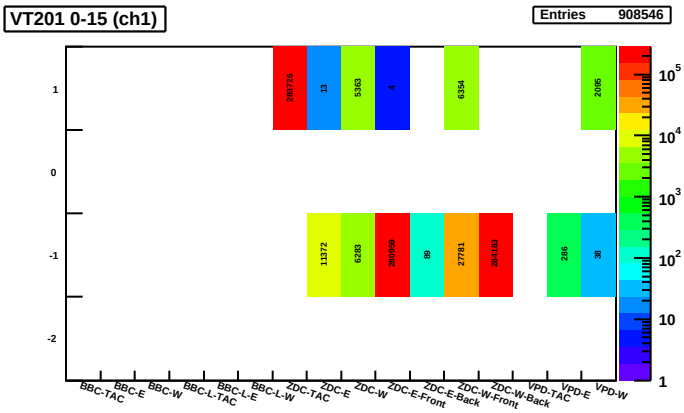

Input to FE003 QT board
Entries9140992
ADC
channel

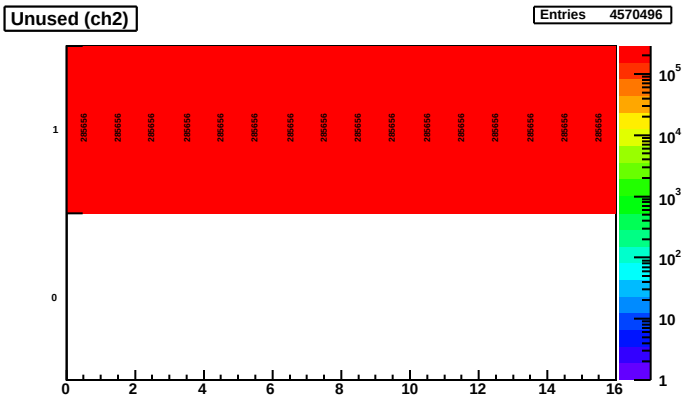

Input to FE004 QT board
Entries9140992
ADC
channel

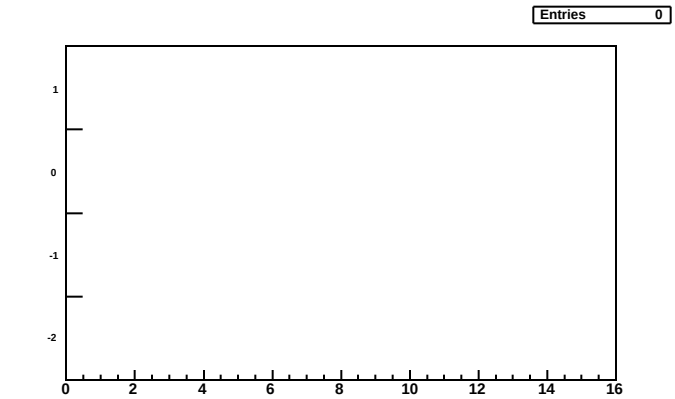

TF201 0-15 (ch0)
Entries 4570496
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

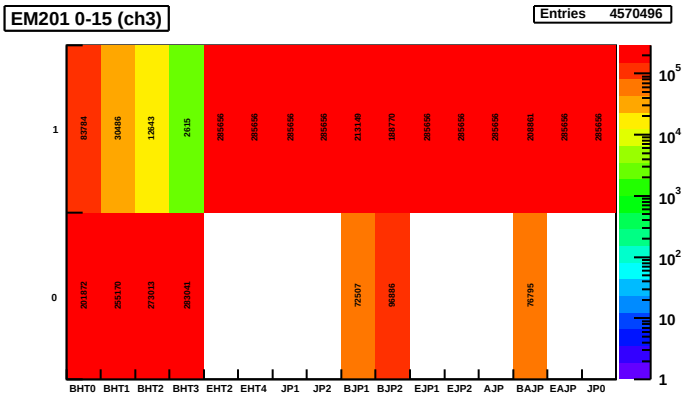

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

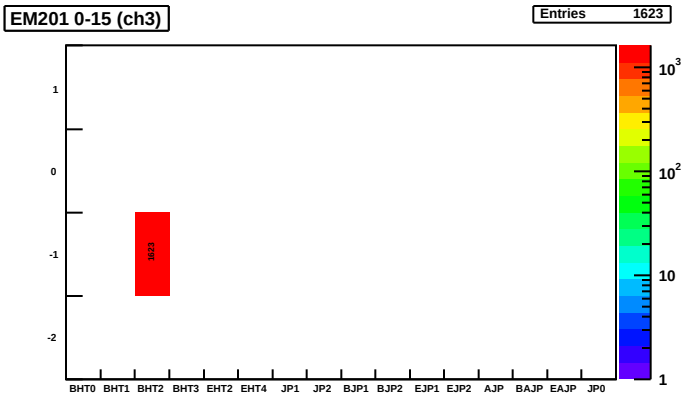

VT201 0-15 (ch1)
Entries 4570496
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 908546
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

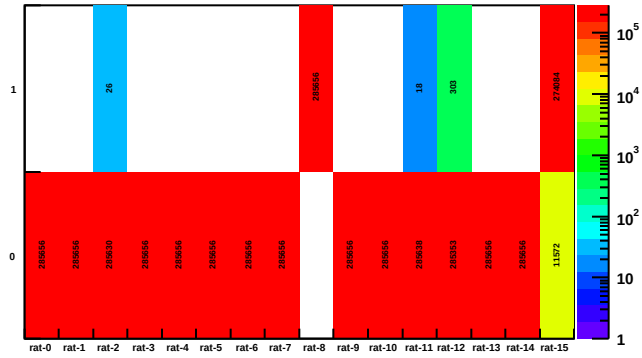

Unused (ch2)
Entries 4570496

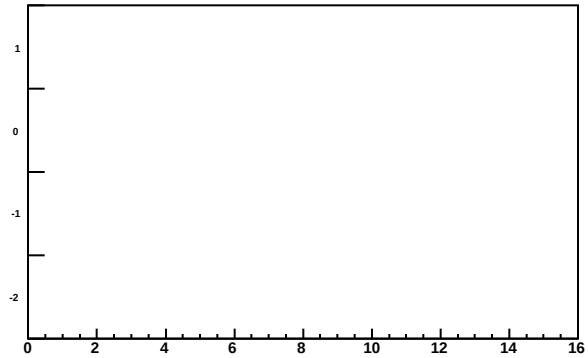

Entries 0


EM201 0-15 (ch3)
Entries 4570496
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

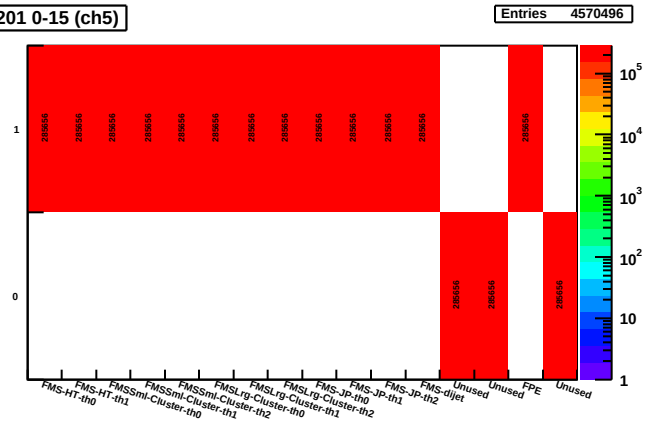

EM201 0-15 (ch3)
Entries 1623
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

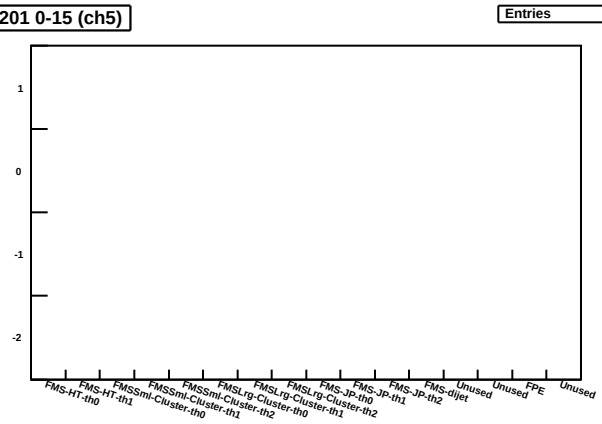




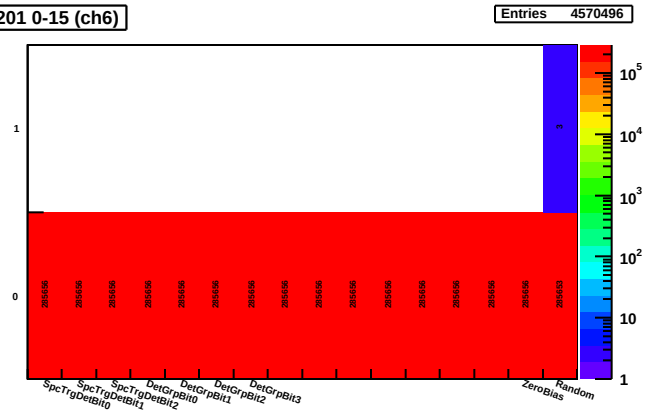
FP201 0-15 (ch5)

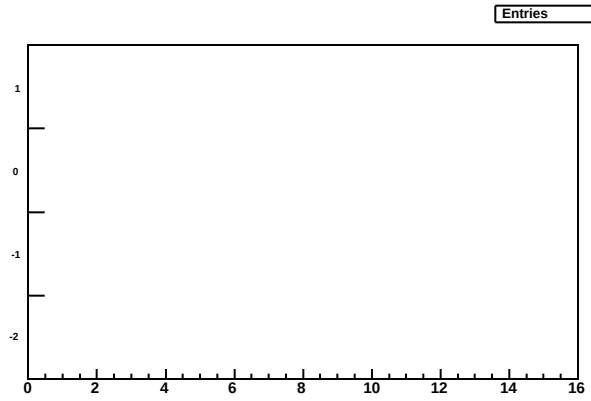
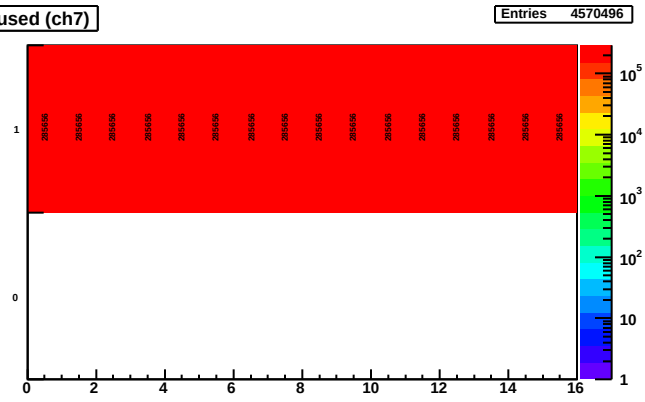
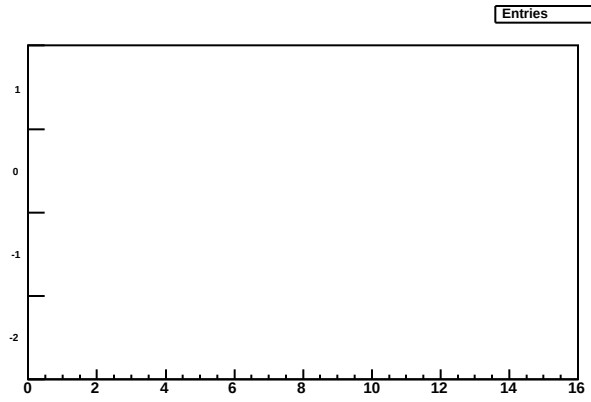


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)