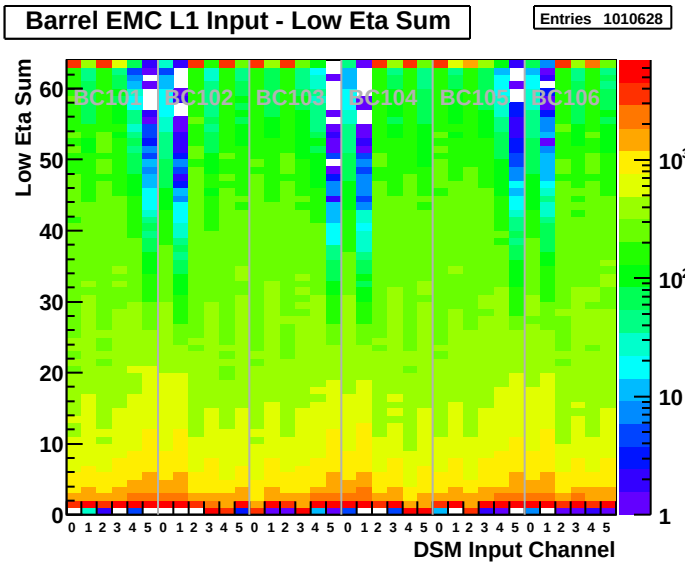
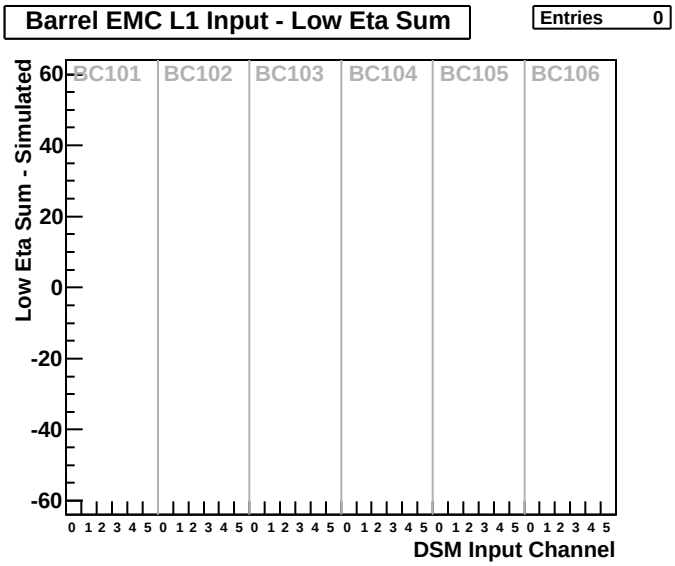
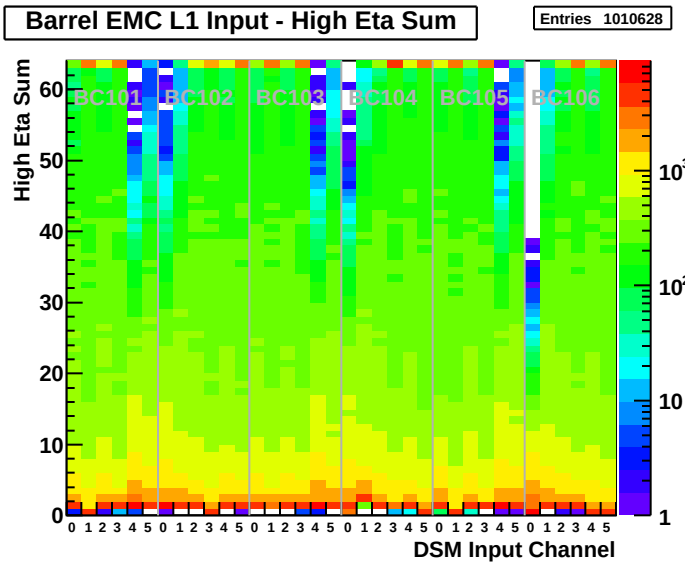
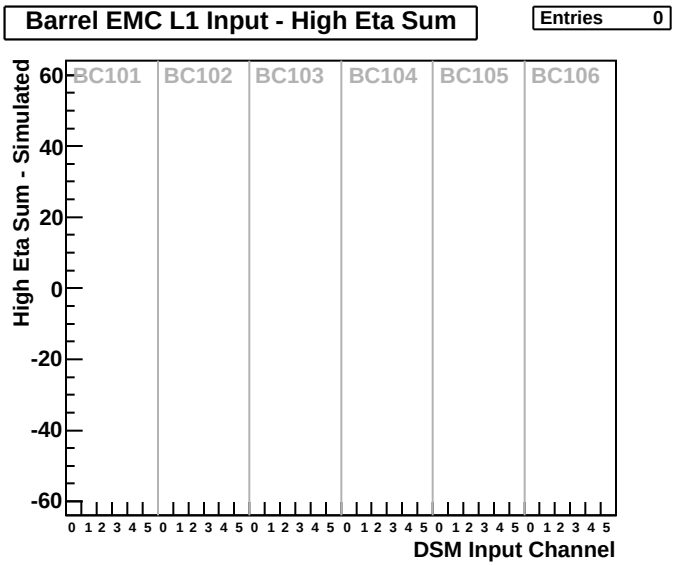
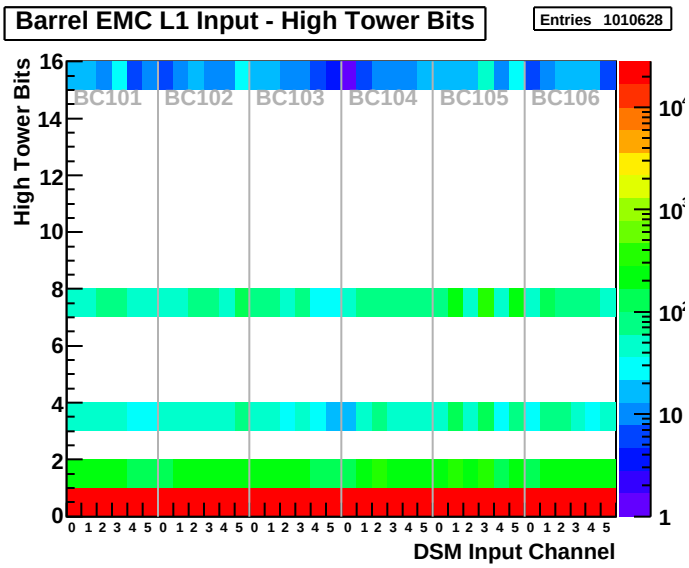
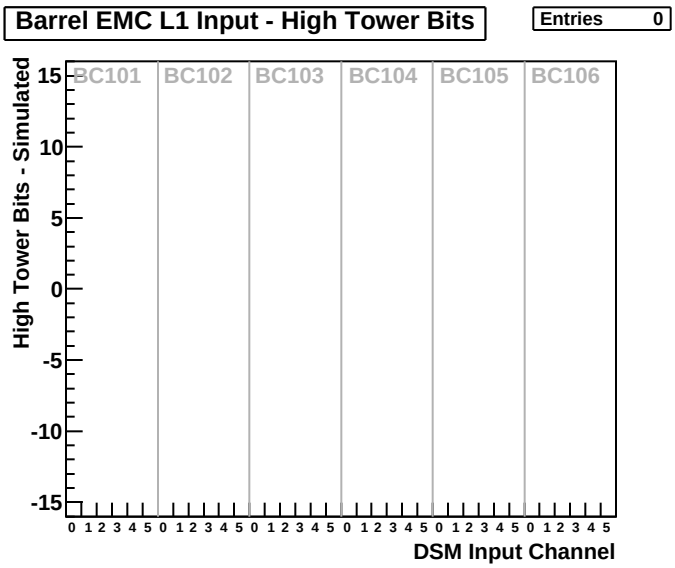

Barrel EMC L1 Input - Low Eta Sum
Entries 1010628
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

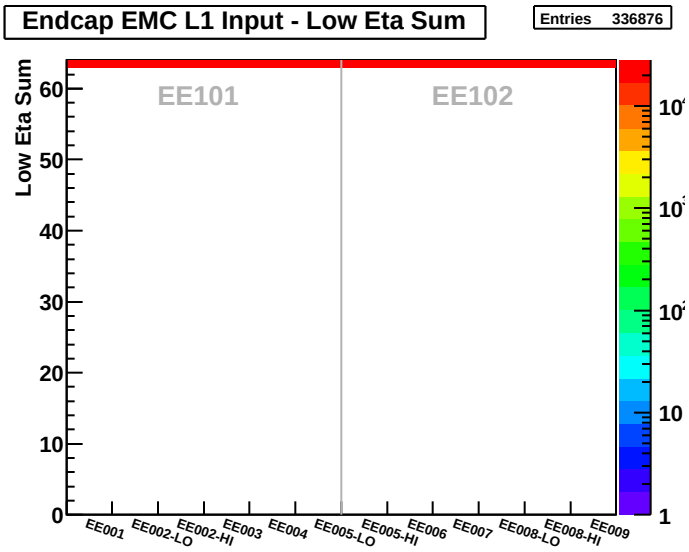

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

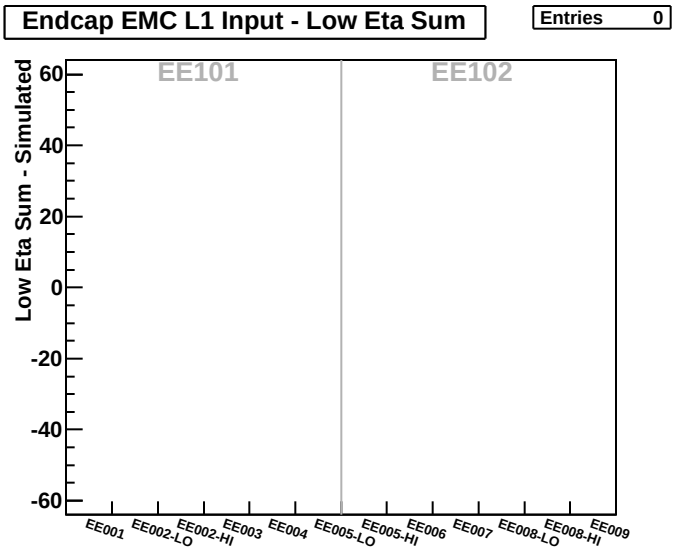

Barrel EMC L1 Input - High Eta Sum
Entries 1010628
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

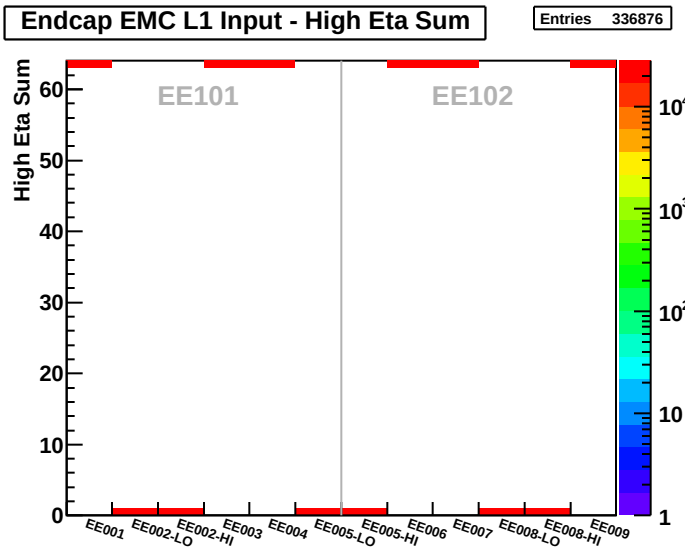

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

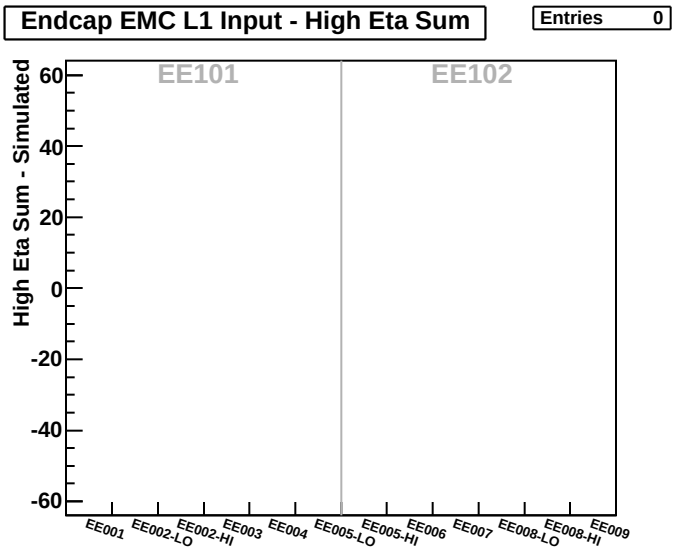

Barrel EMC L1 Input - High Tower Bits
Entries 1010628
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

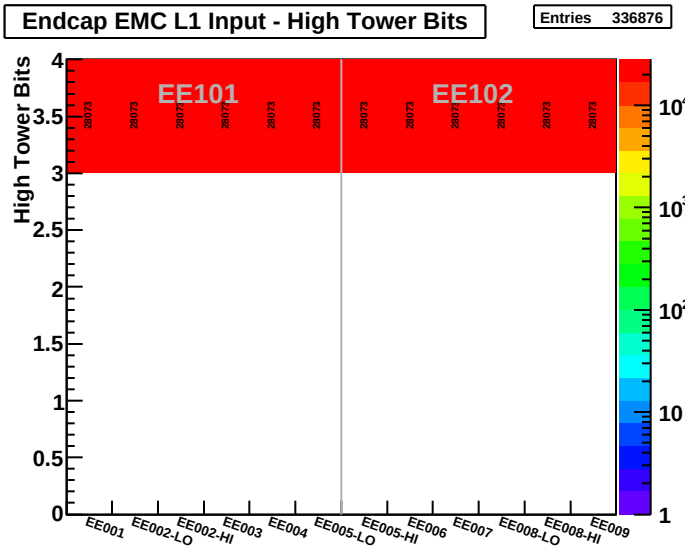

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

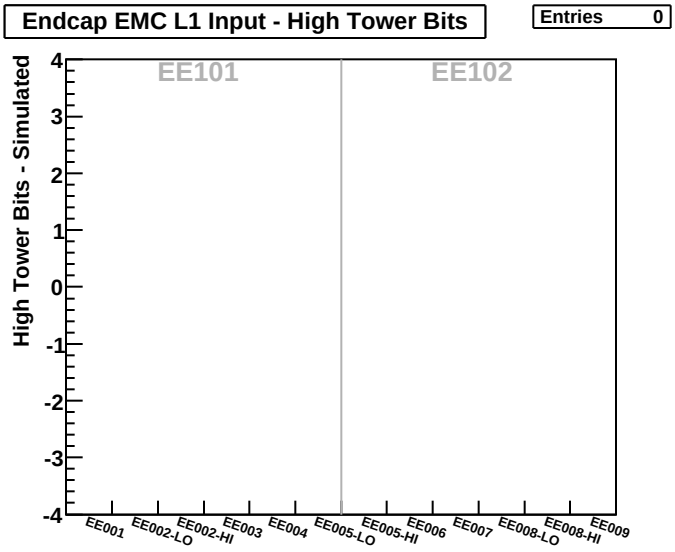

Endcap EMC L1 Input - Low Eta Sum
Entries 336876
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

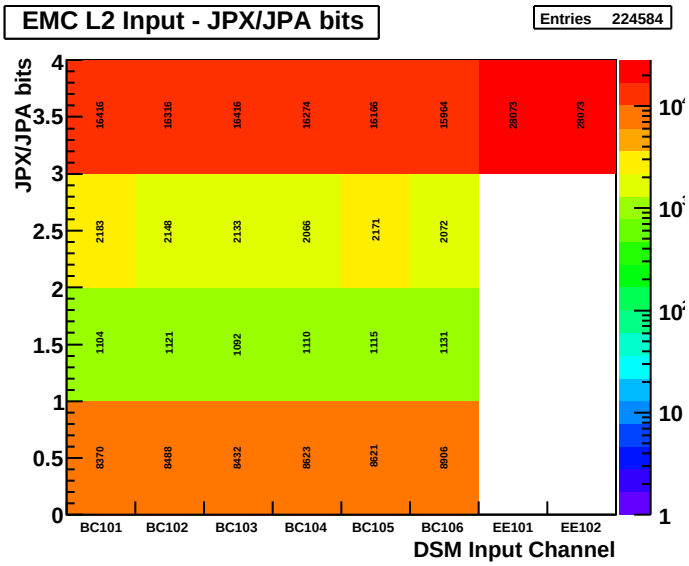

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

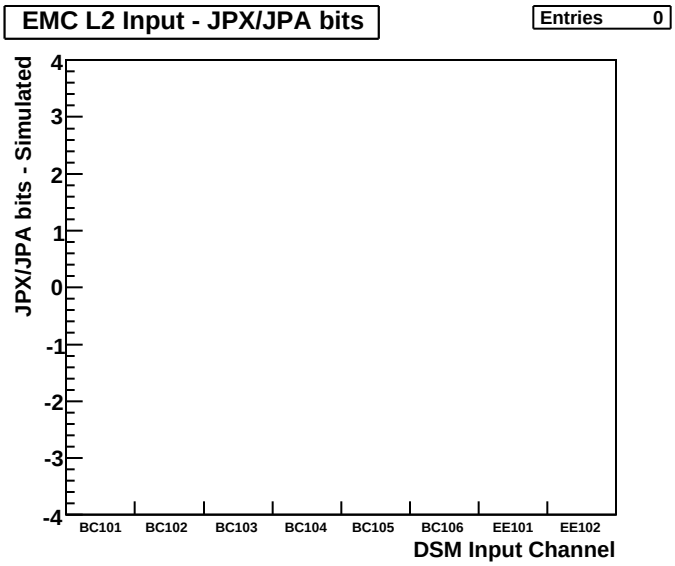

Endcap EMC L1 Input - High Eta Sum
Entries 336876
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

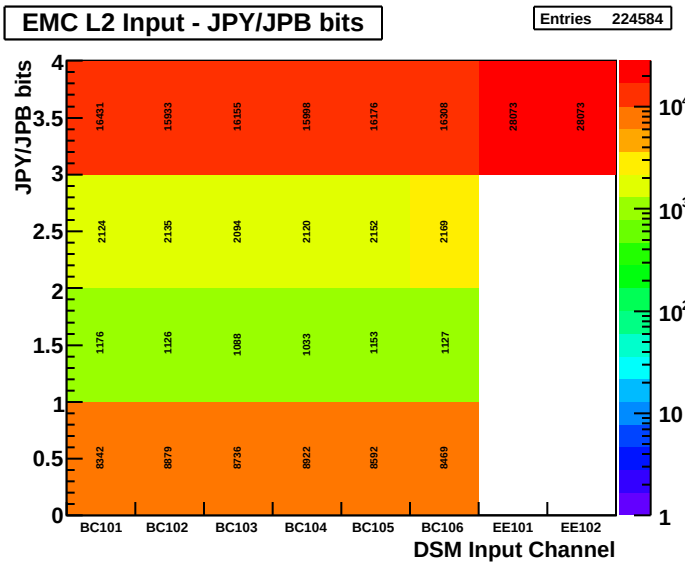

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

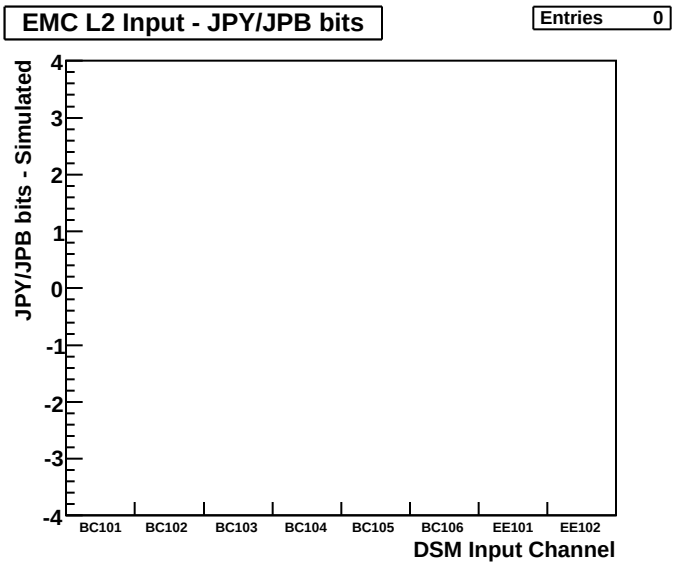

Endcap EMC L1 Input - High Tower Bits
Entries 336876
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

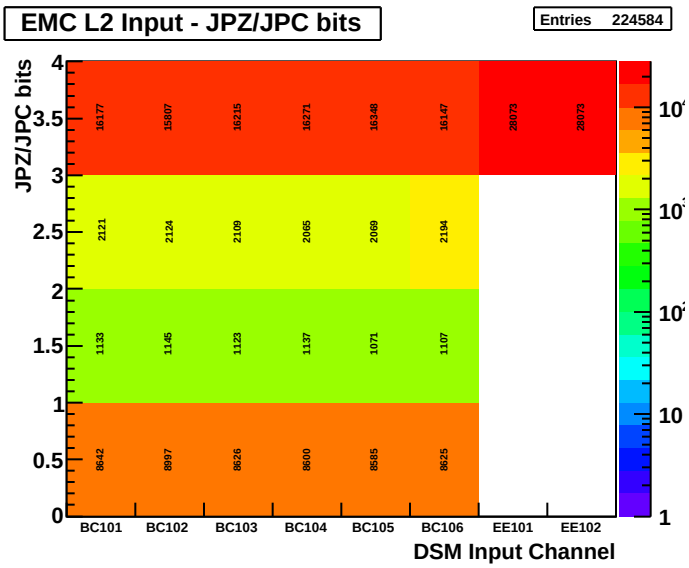

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

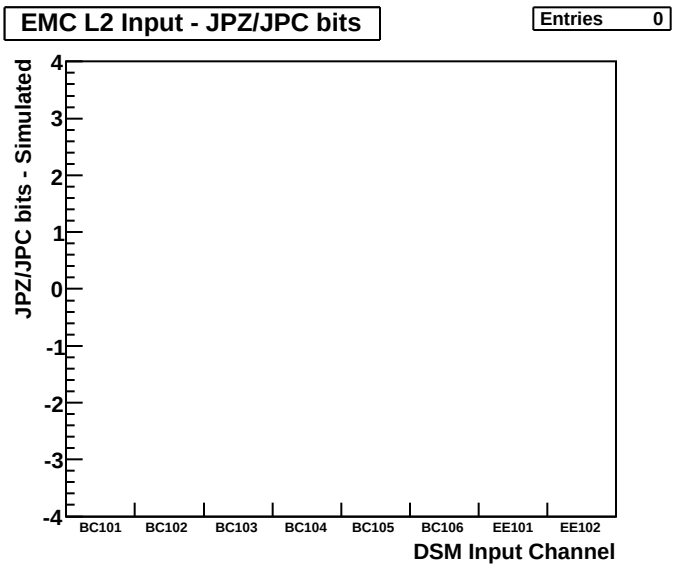

EMC L2 Input - JPX/JPA bits
Entries 224584
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
16416 16316 16416 16274 16166 15964 28073 28073
2183 2148 2133 2066 2171 2072
1104 1121 1092 1110 1115 1131
8370 8498 8432 8623 8621 8906

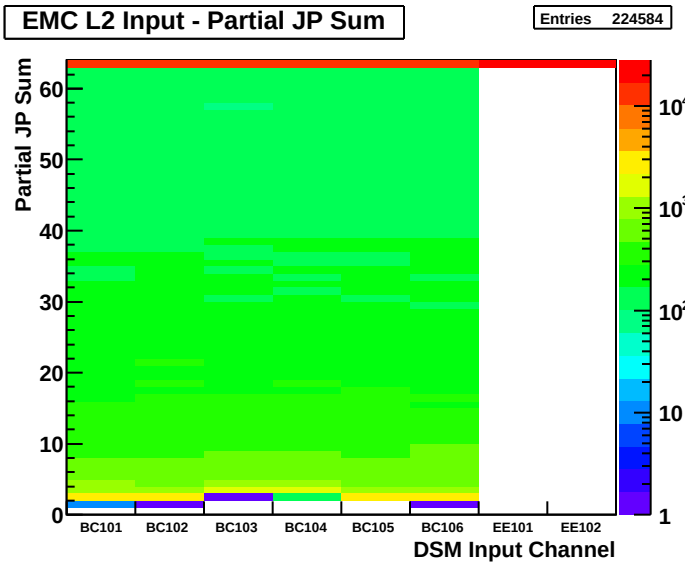

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

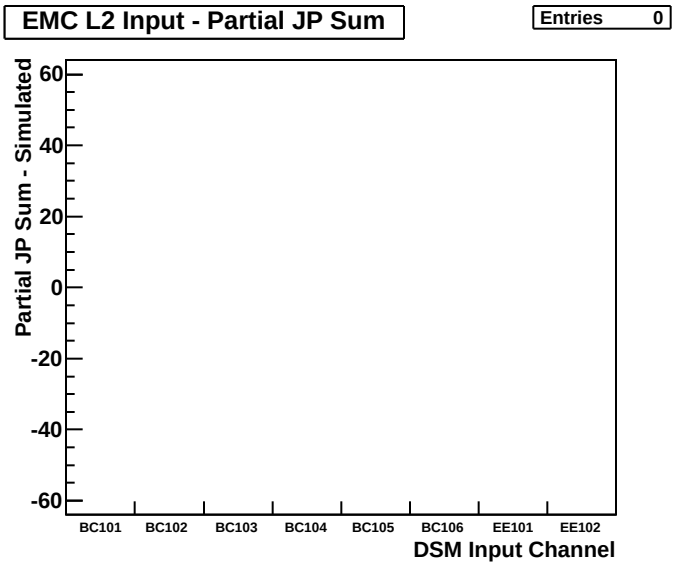

EMC L2 Input - JPY/JPB bits
Entries 224584
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
16451 15923 16155 15988 16176 16308 28073 28073
2124 2135 2094 2120 2152 2169
1176 1126 1088 1033 1153 1127
8342 8879 8736 8922 8592 8469

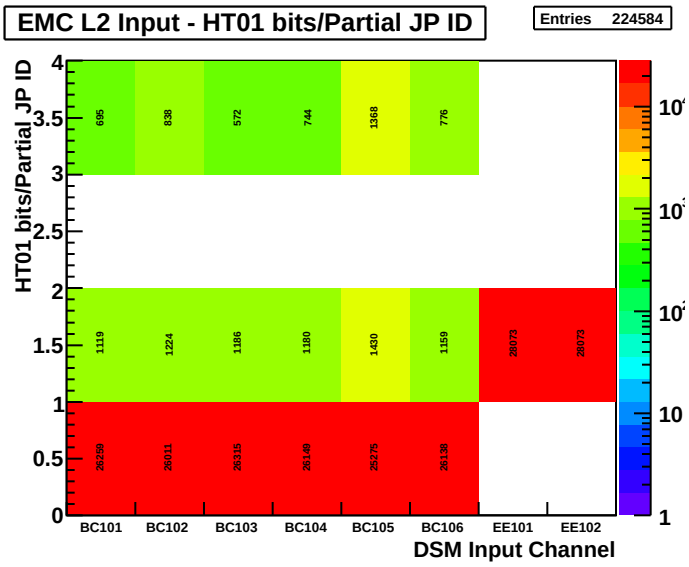

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

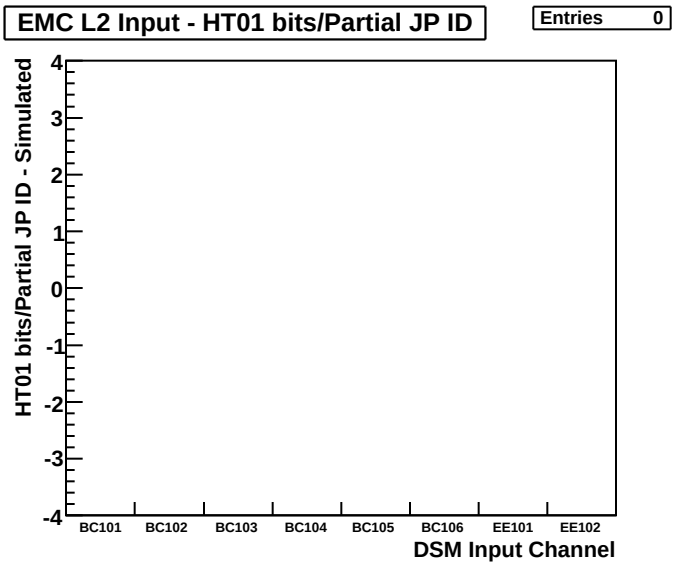

EMC L2 Input - JPZ/JPC bits
Entries 224584
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
16177 15807 16215 16271 16348 16147 28073 28073
2121 2124 2109 2065 2069 2194
1133 1145 1123 1137 1071 1107
8642 8997 8626 8600 8585 8625

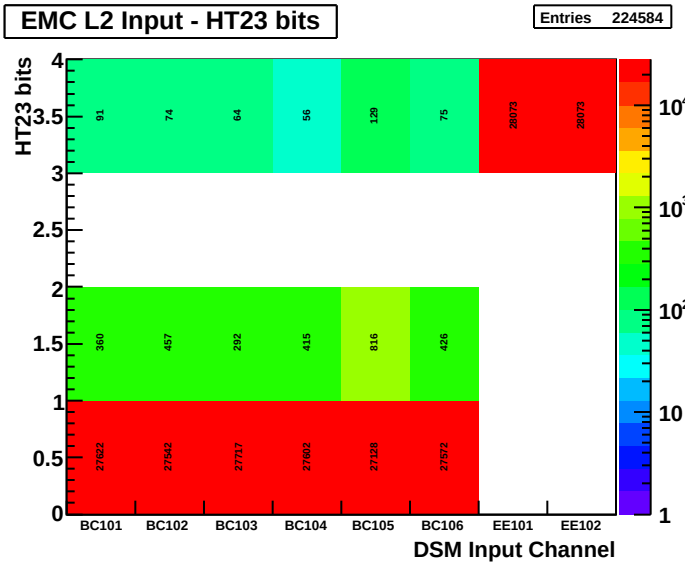

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

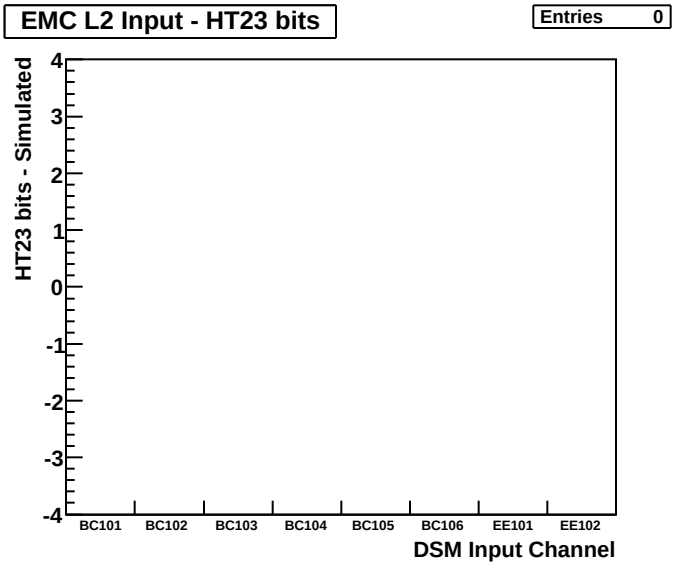

EMC L2 Input - Partial JP Sum
Entries 224584
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

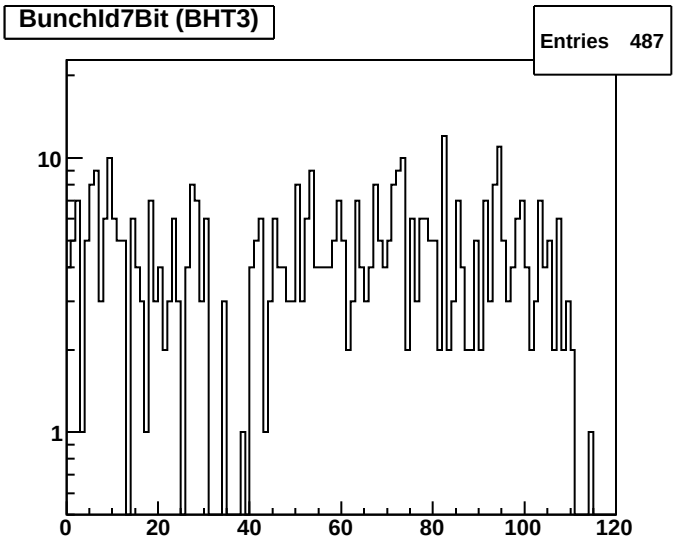

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

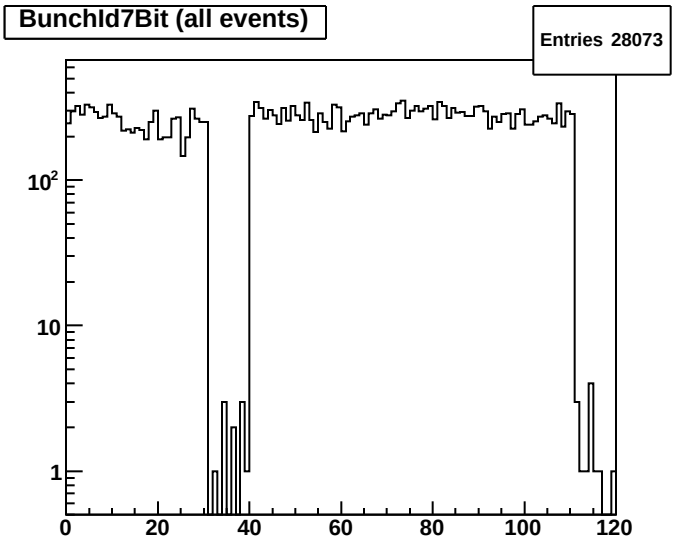

EMC L2 Input - HT01 bits/Partial JP ID
Entries 224584
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

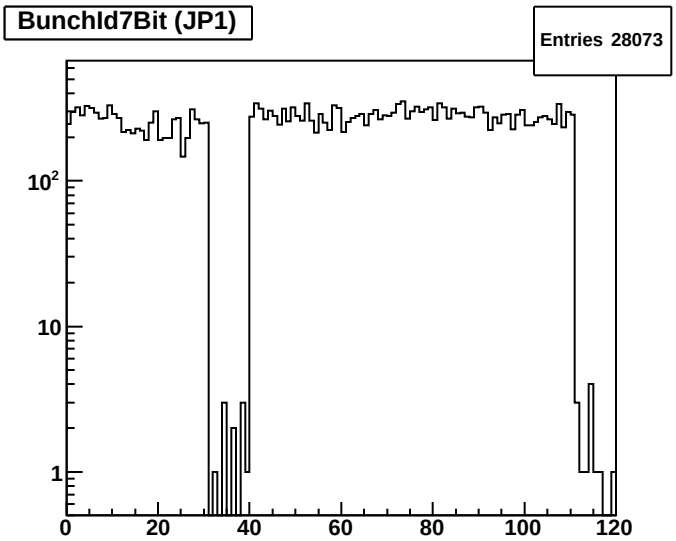

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

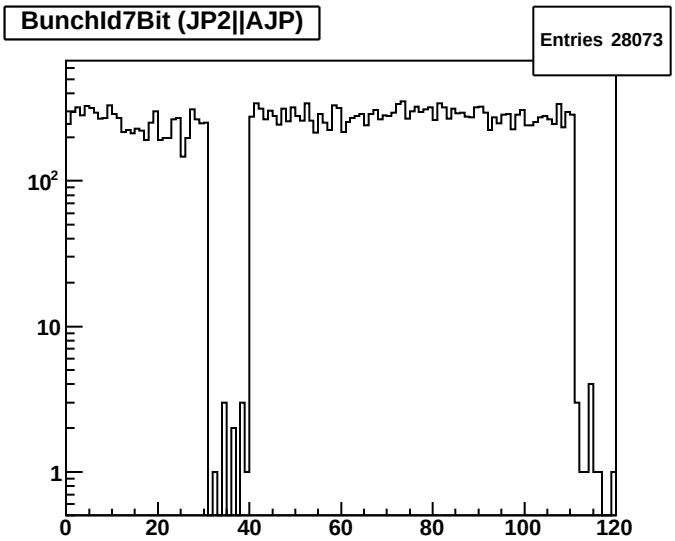

EMC L2 Input - HT23 bits
Entries 224584
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

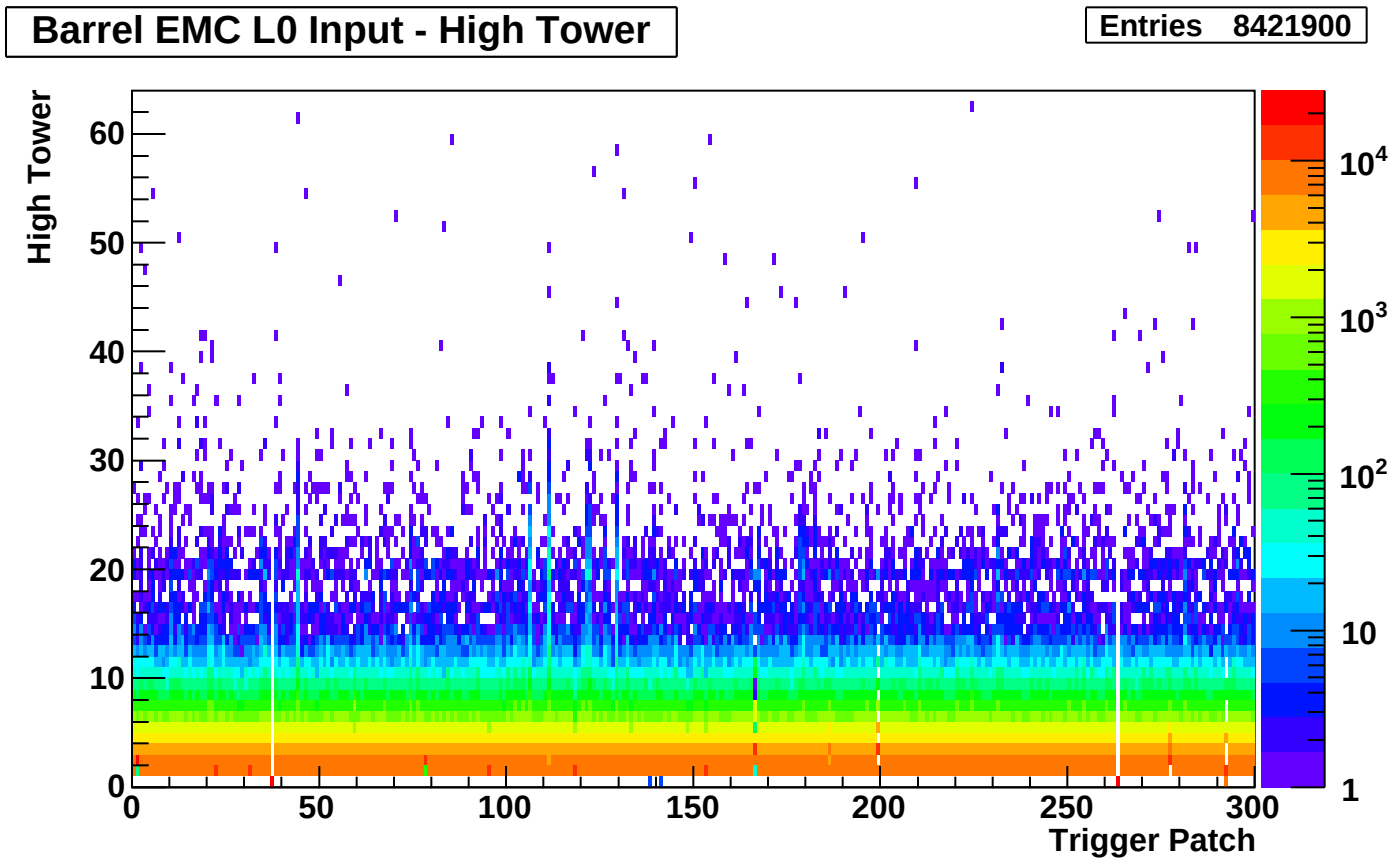

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

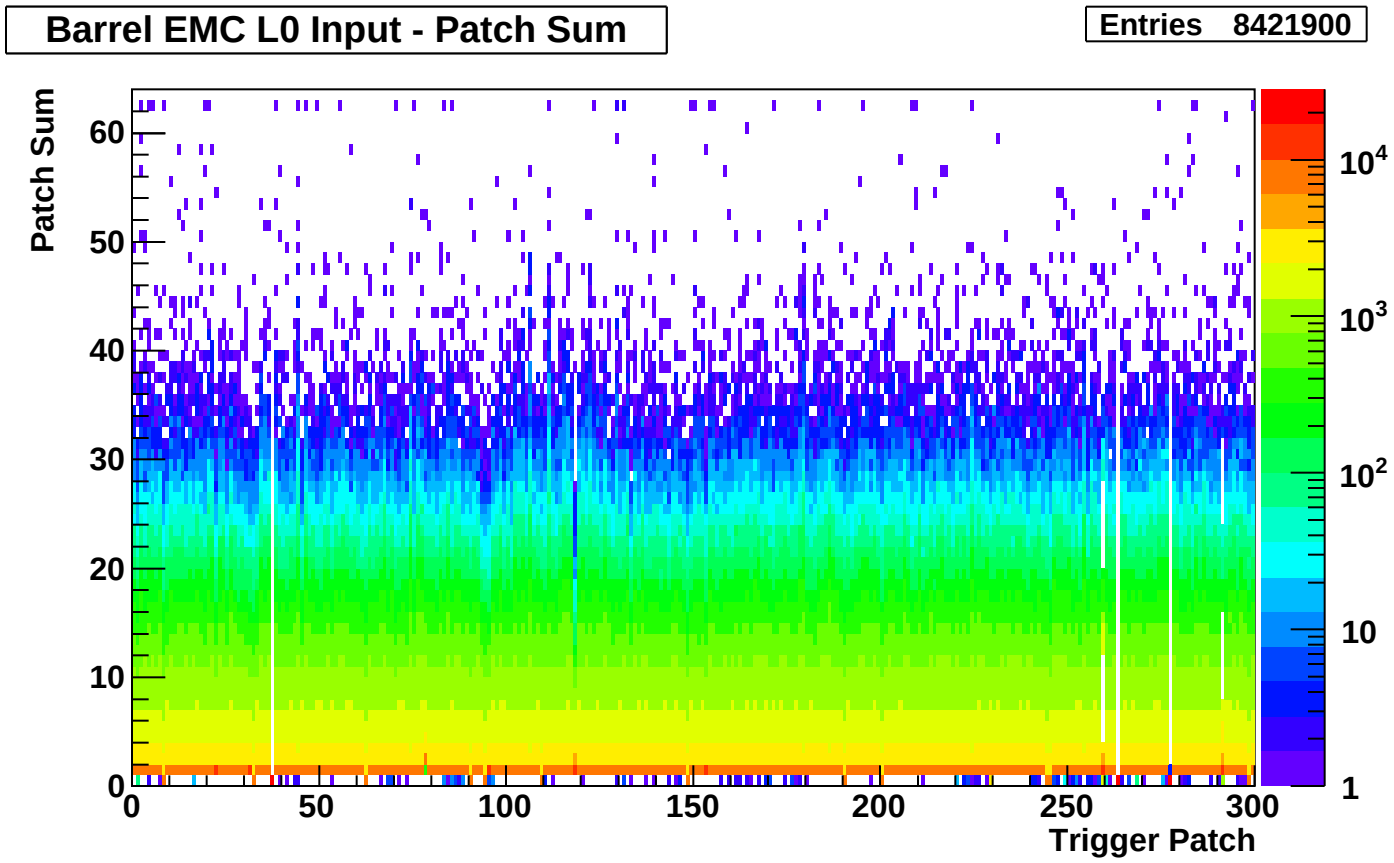

BunchId7Bit (BHT3)
Entries 487
10
1
0
20
40
60
80
100
120

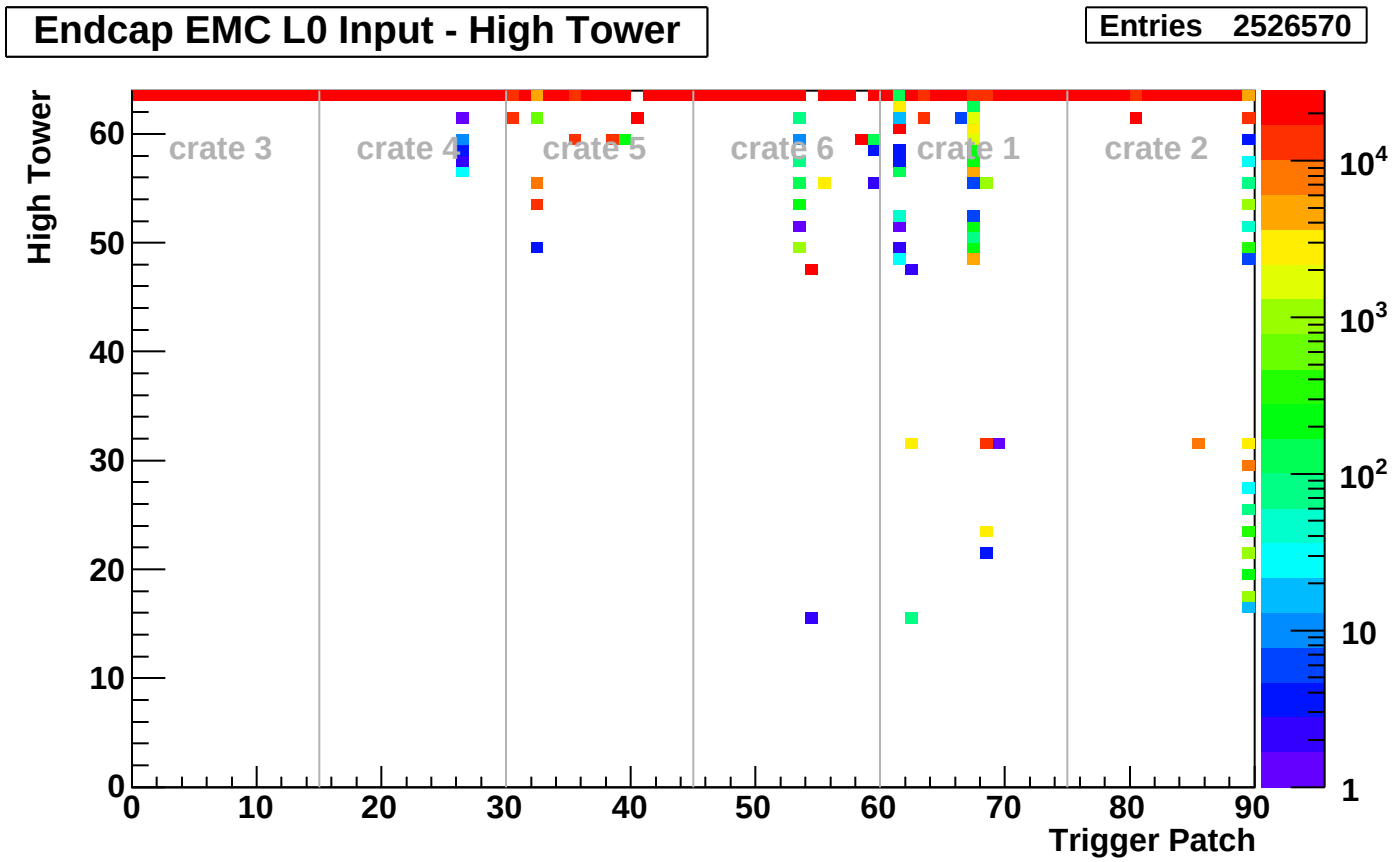

BunchId7Bit (all events)
Entries 28073
10^2
10
1
0
20
40
60
80
100
120

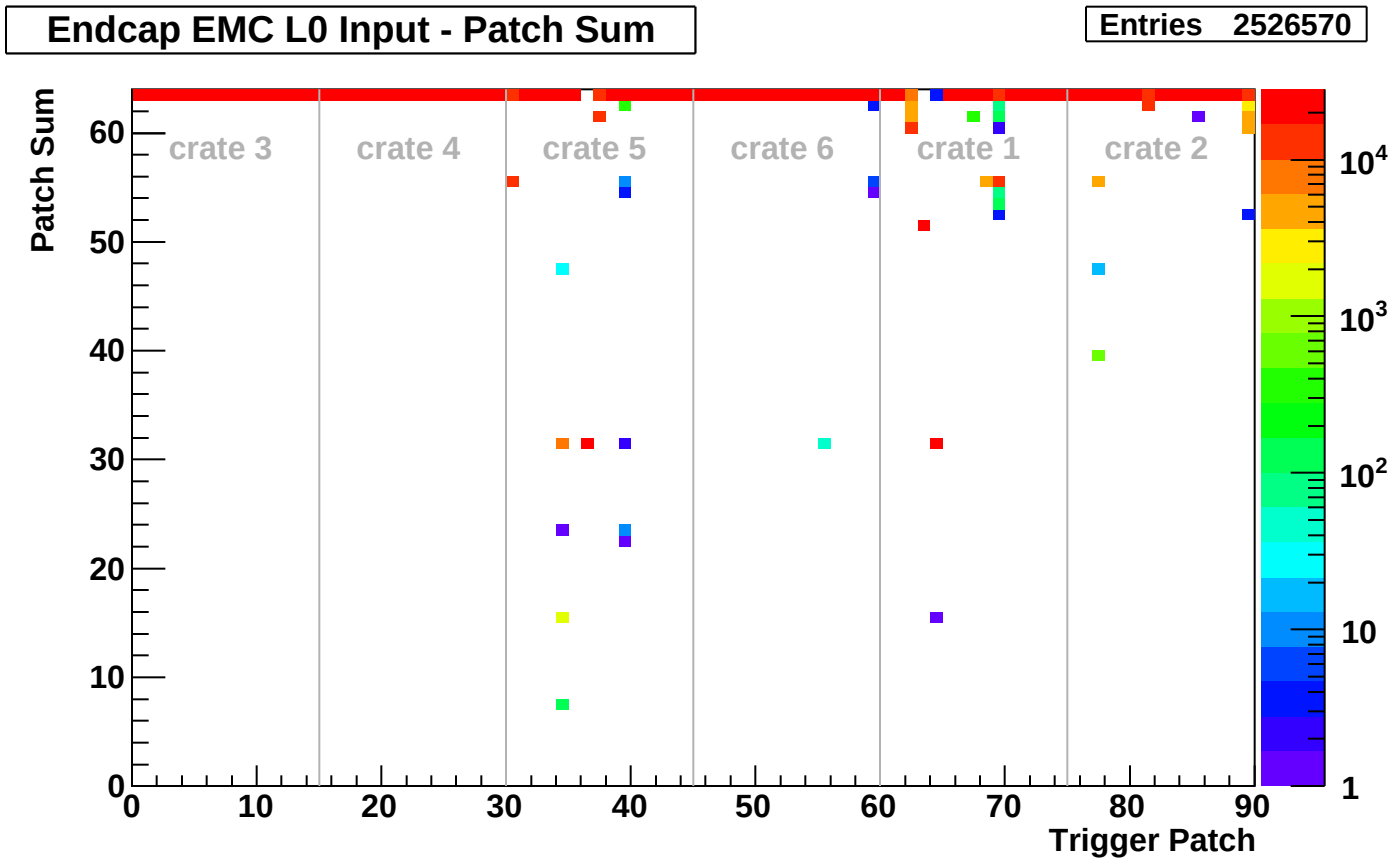

BunchId7Bit (JP1)
Entries 28073
10^2
10
1
0
20
40
60
80
100
120

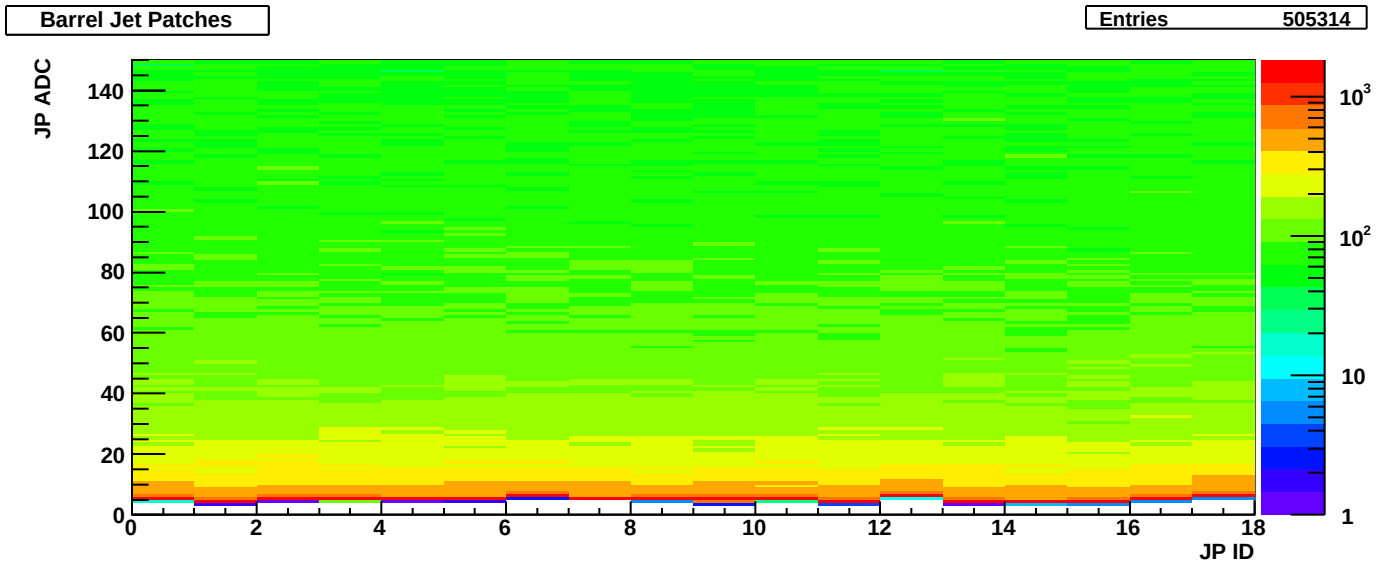

BunchId7Bit (JP2||AJP)
Entries 28073
10^2
10
1
0
20
40
60
80
100
120

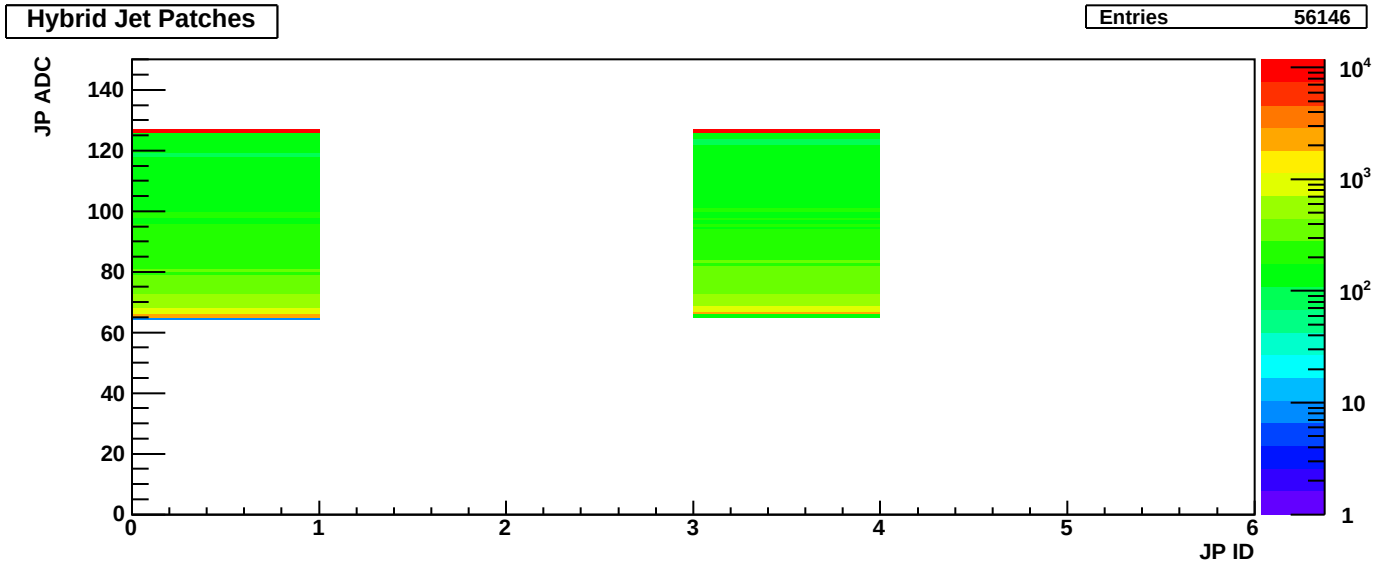

Barrel EMC L0 Input - High Tower
Entries 8421900
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

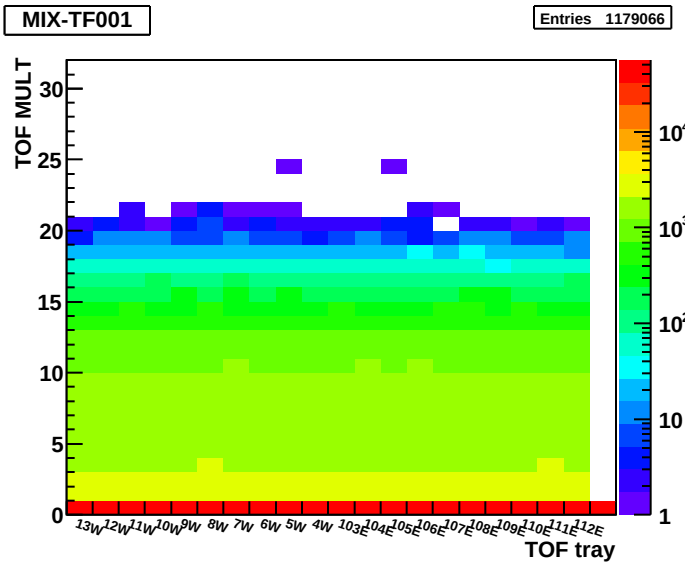

Barrel EMC L0 Input - Patch Sum
Entries 8421900
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

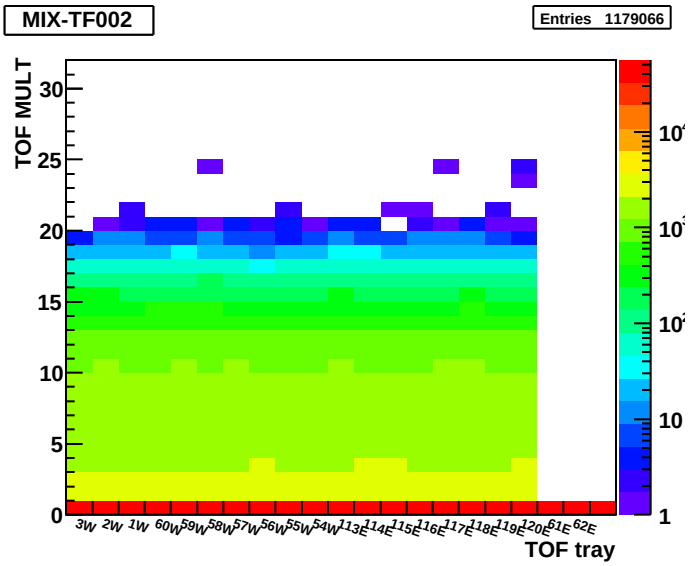

Endcap EMC L0 Input - High Tower
Entries 2526570
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

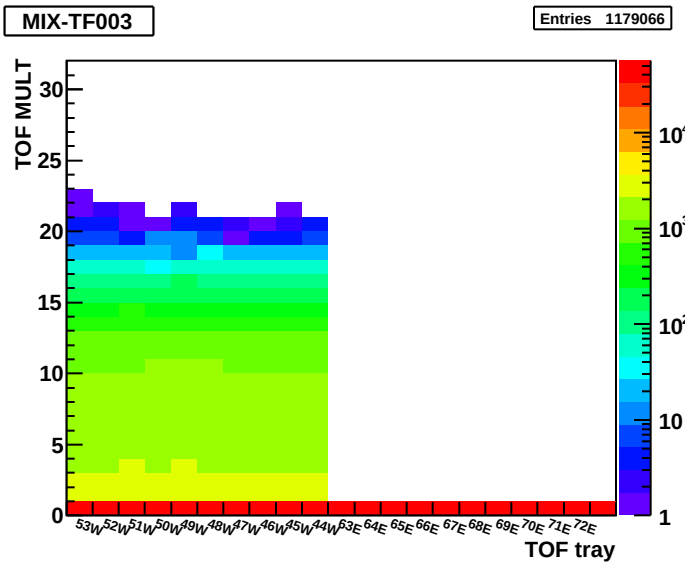

Endcap EMC L0 Input - Patch Sum
Entries 2526570
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

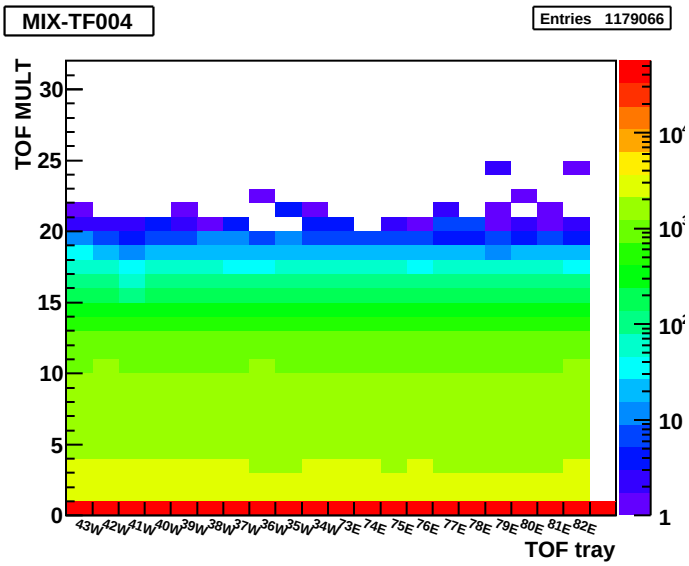

Barrel Jet Patches
Entries 505314
JP ADC
JP ID

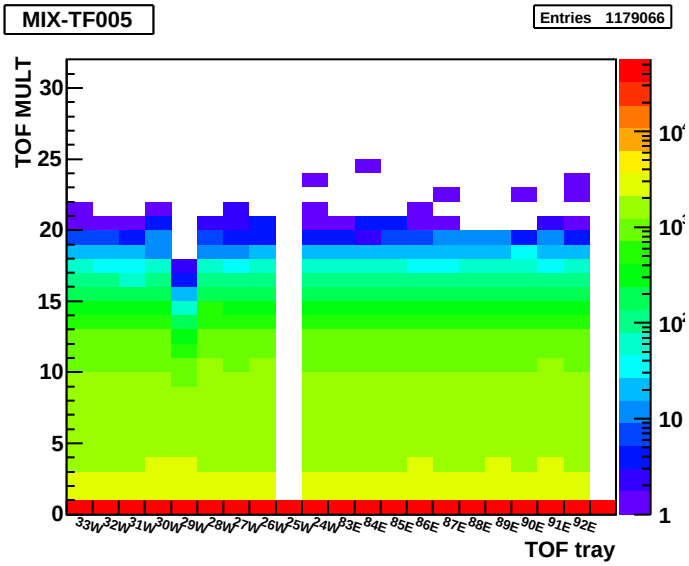

Hybrid Jet Patches
Entries 56146
JP ADC
JP ID

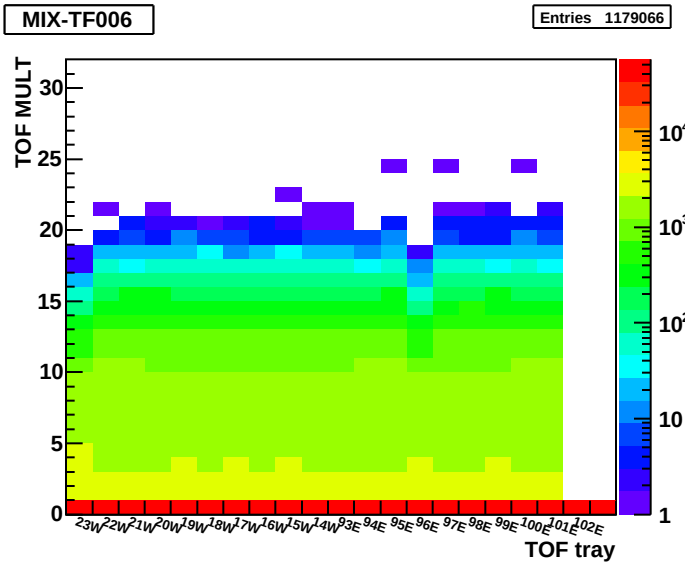

MIX-TF001
Entries 1179066
TOF MULT
TOF tray

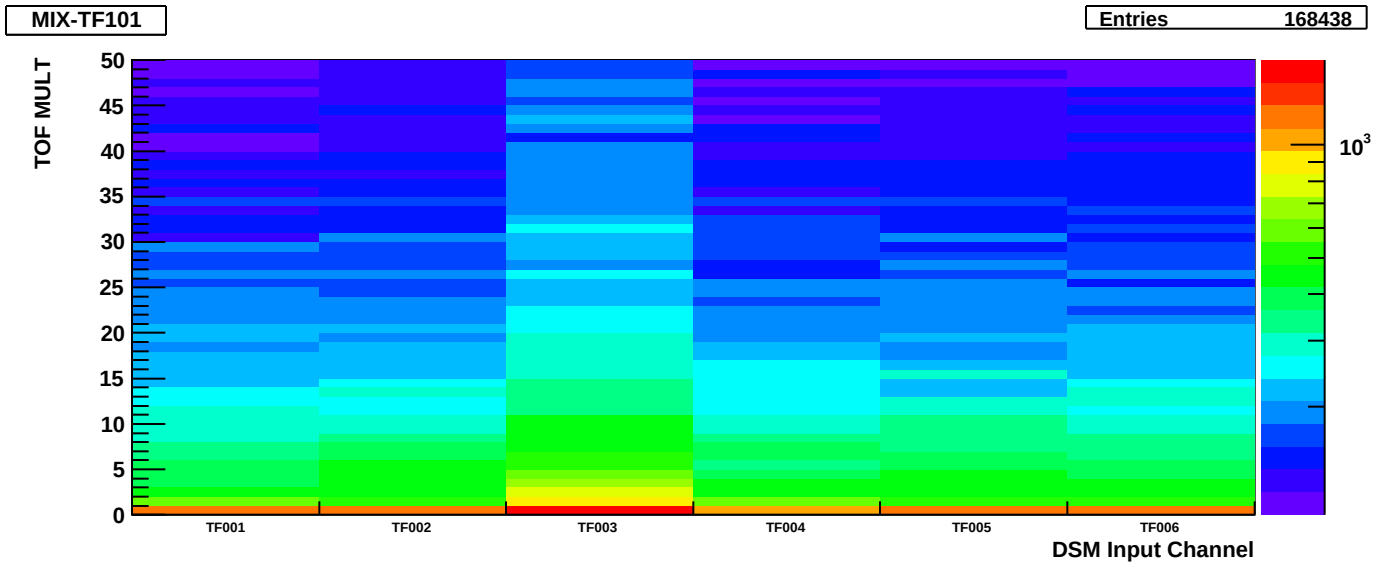

MIX-TF002
Entries 1179066
TOF MULT
TOF tray

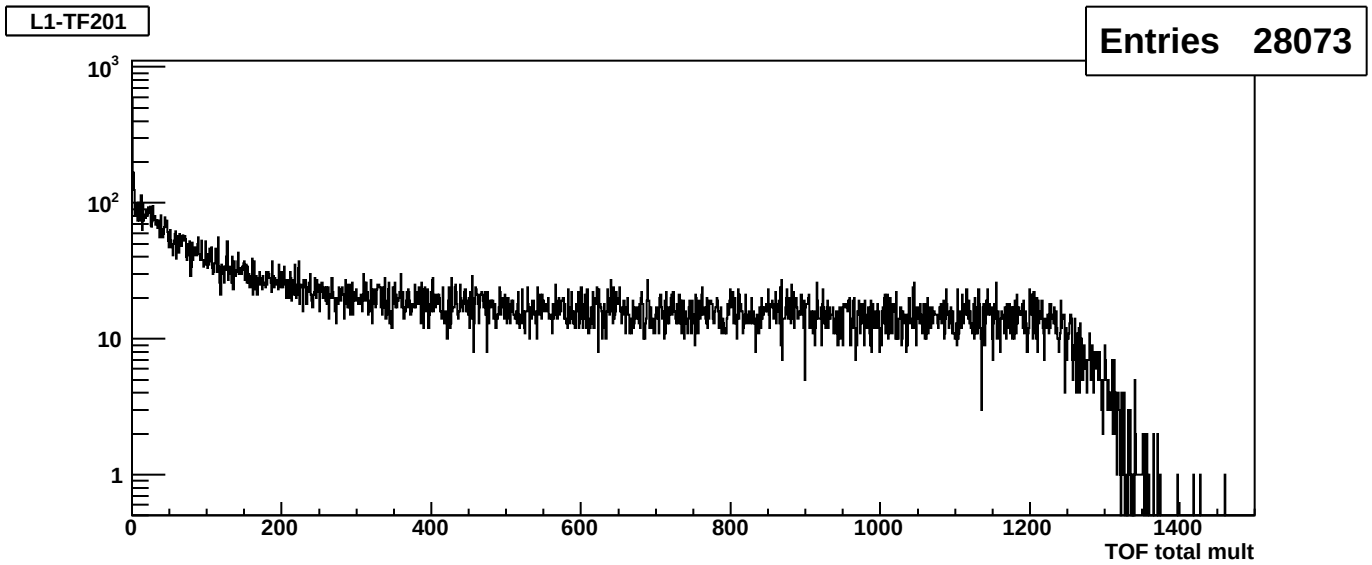

MIX-TF003
Entries 1179066
TOF MULT
TOF tray

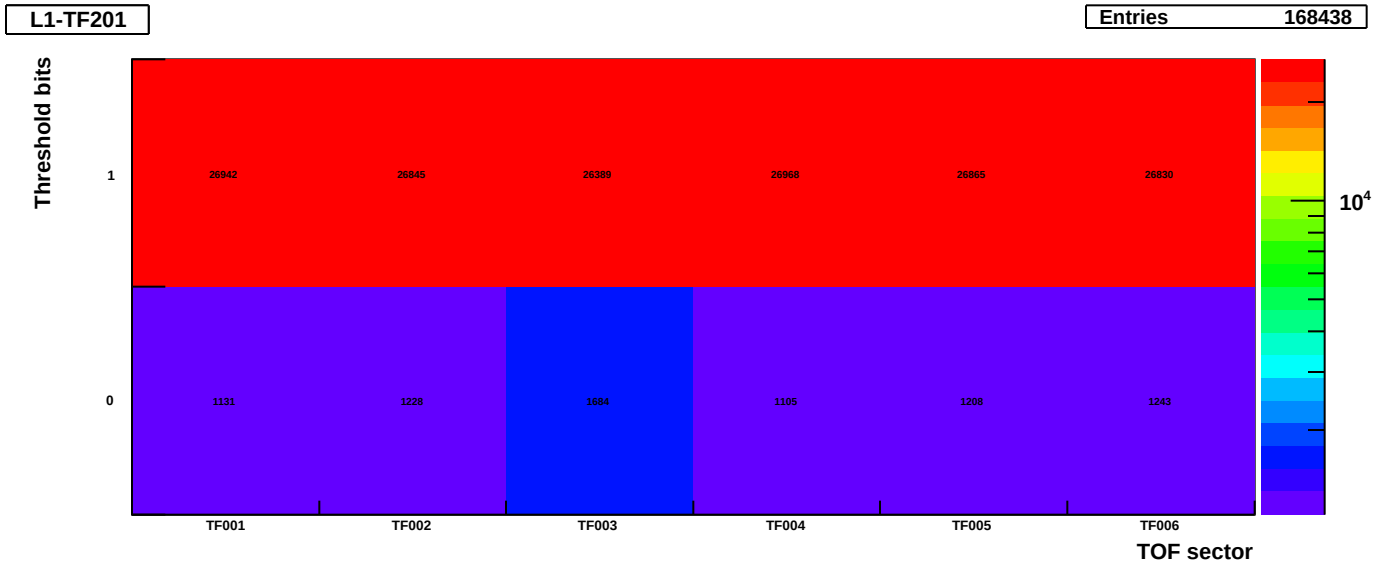

MIX-TF004
Entries 1179066
TOF MULT
TOF tray

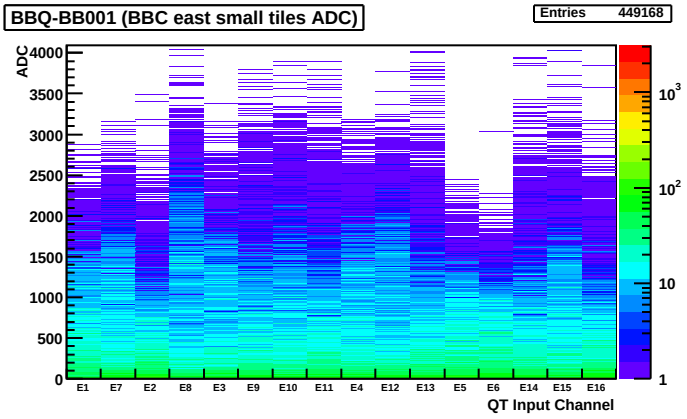

MIX-TF005
Entries 1179066
TOF MULT
TOF tray

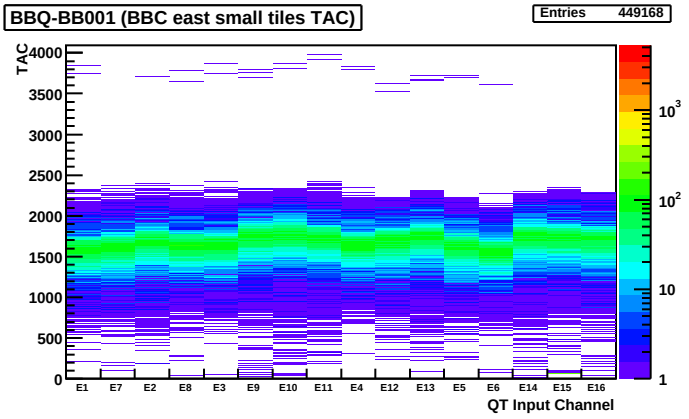

MIX-TF006
Entries 1179066
TOF MULT
TOF tray

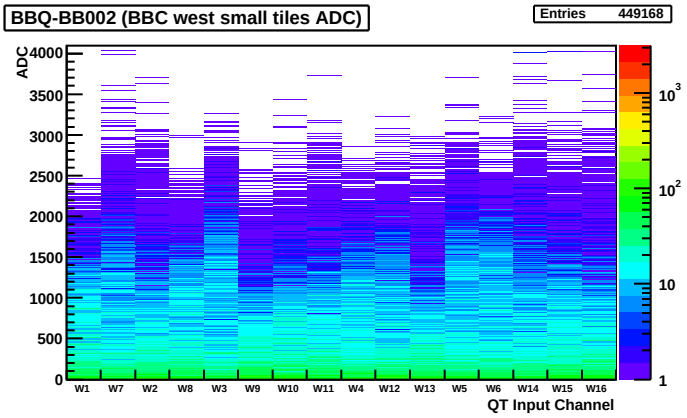

MIX-TF101
Entries 168438
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

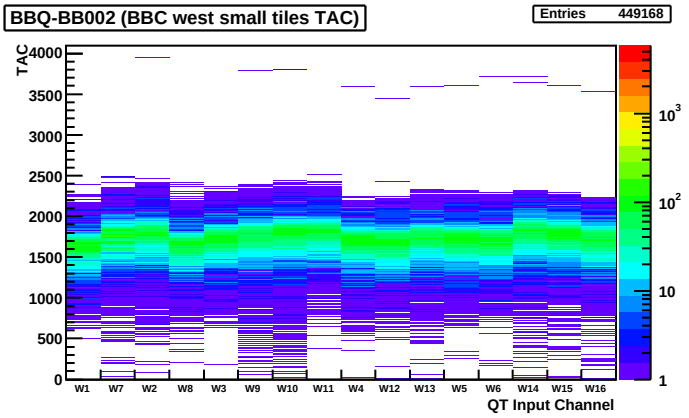

L1-TF201
Entries 28073
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

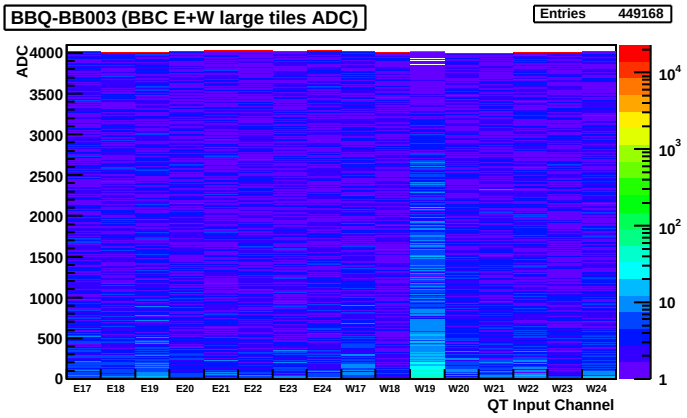

L1-TF201
Entries 168438
Threshold bits
1
0
26942
26845
26389
26968
26865
26830
1131
1228
1684
1105
1208
1243
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

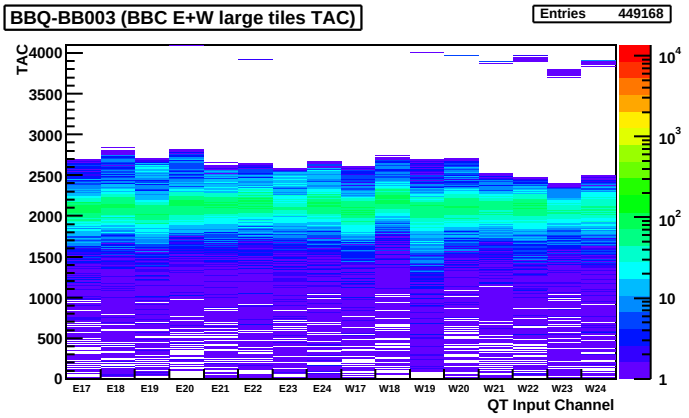

BBQ-BB001 (BBC east small tiles ADC)
Entries 449168
ADC
QT Input Channel

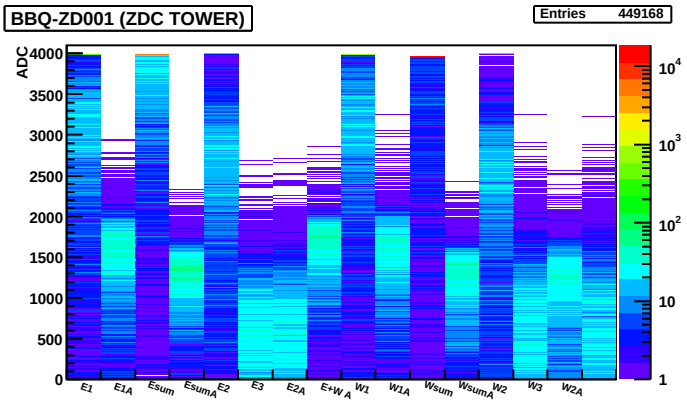

BBQ-BB001 (BBC east small tiles TAC)
Entries 449168
TAC
QT Input Channel

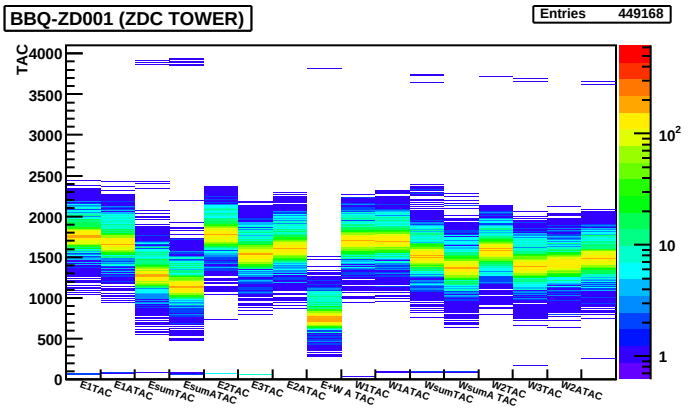

BBQ-BB002 (BBC west small tiles ADC)
Entries 449168
ADC
QT Input Channel

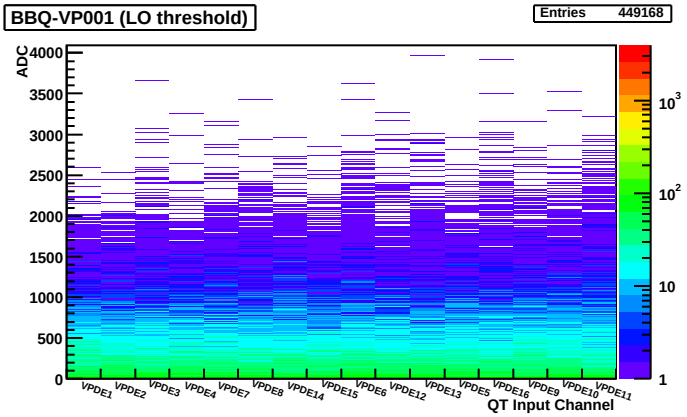

BBQ-BB002 (BBC west small tiles TAC)
Entries 449168
TAC
QT Input Channel

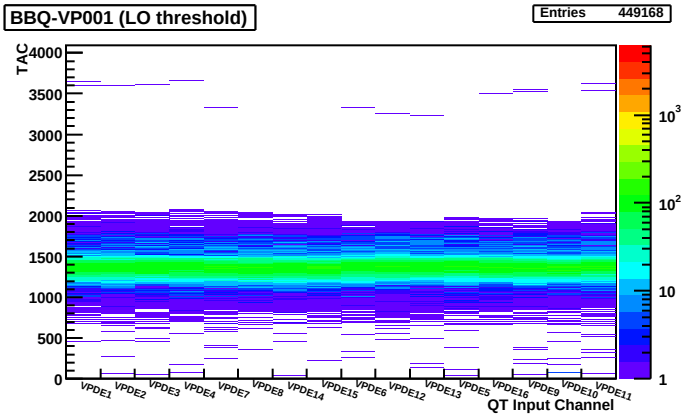

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 449168
ADC
QT Input Channel

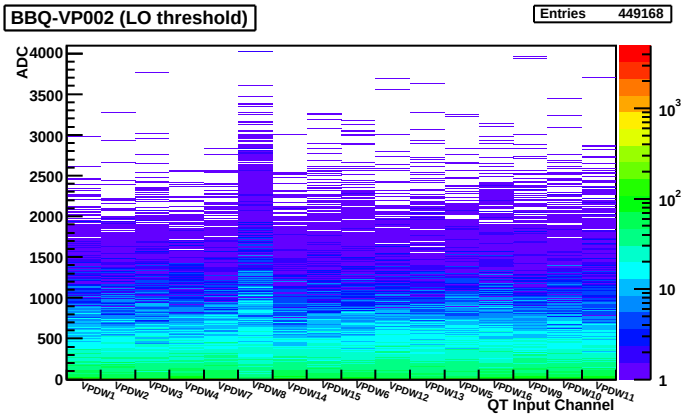

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 449168
TAC
QT Input Channel

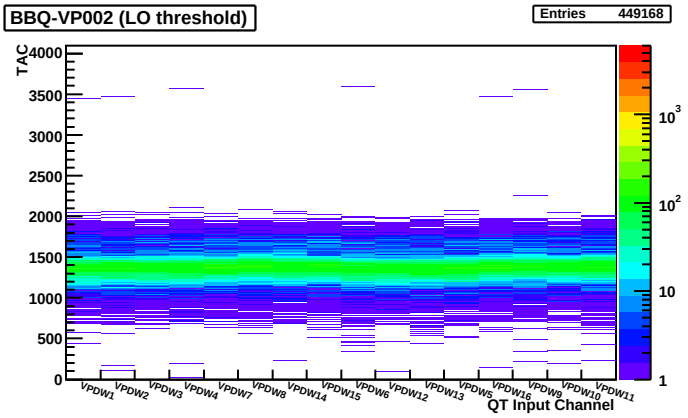

BBQ-ZD001 (ZDC TOWER)
Entries 449168
ADC

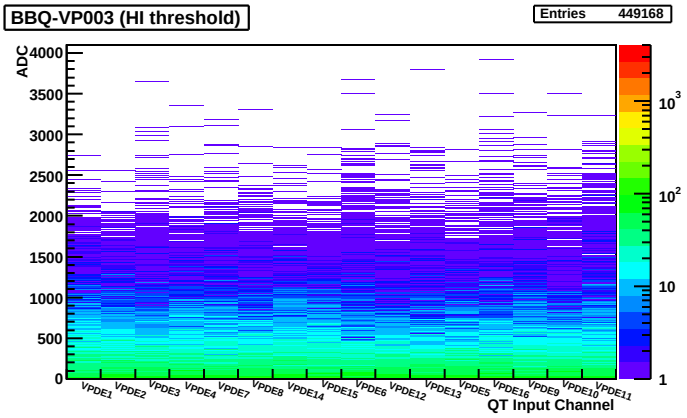

BBQ-ZD001 (ZDC TOWER)
Entries 449168
TAC

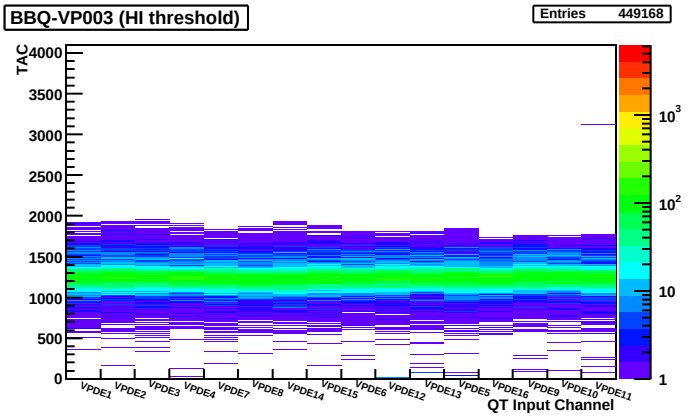

BBQ-VP001 (LO threshold)
Entries 449168
ADC
QT Input Channel

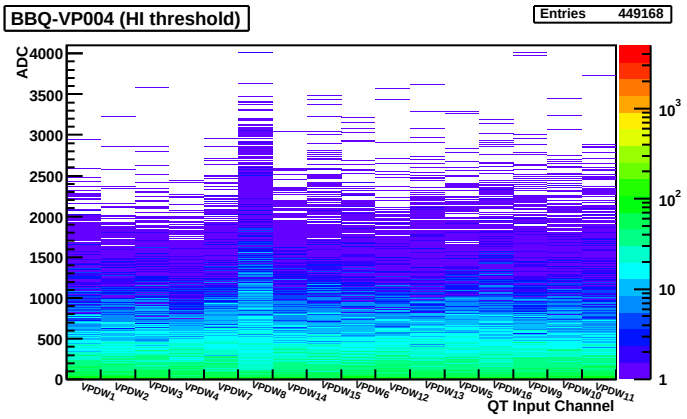

BBQ-VP001 (LO threshold)
Entries 449168
TAC
QT Input Channel

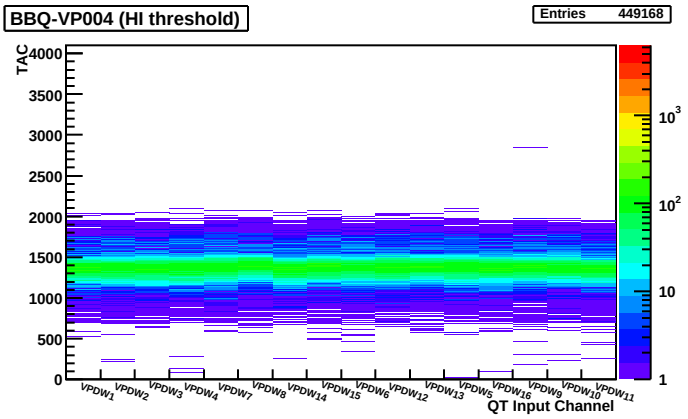

BBQ-VP002 (LO threshold)
Entries 449168
ADC
QT Input Channel

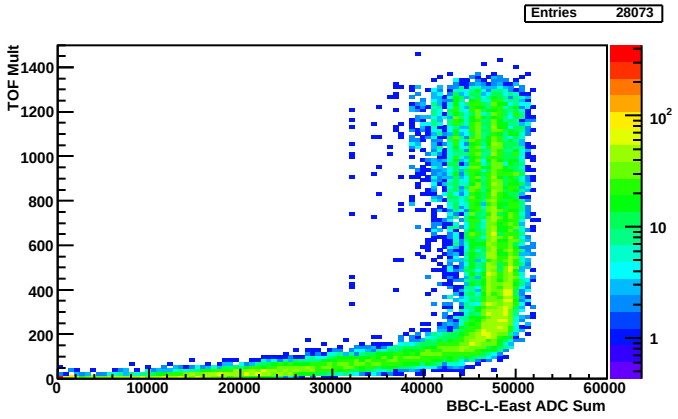

BBQ-VP002 (LO threshold)
Entries 449168
TAC
QT Input Channel

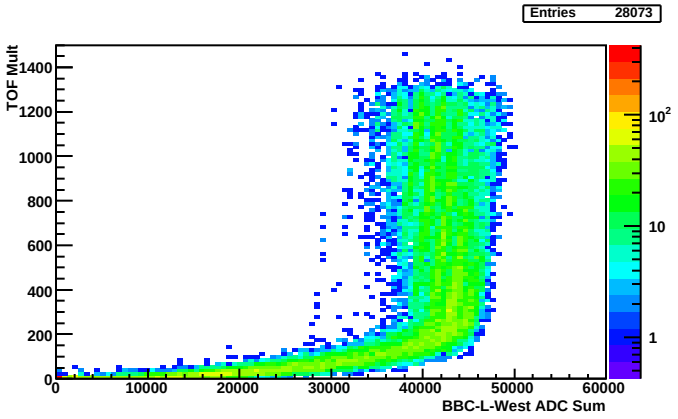

BBQ-VP003 (HI threshold)
Entries 449168
ADC
QT Input Channel

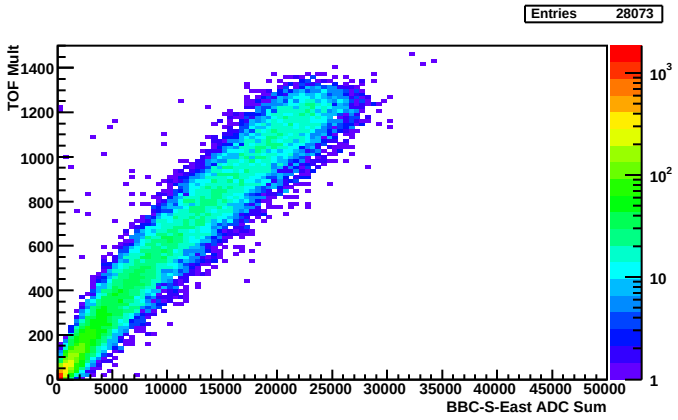

BBQ-VP003 (HI threshold)
Entries 449168
TAC
QT Input Channel

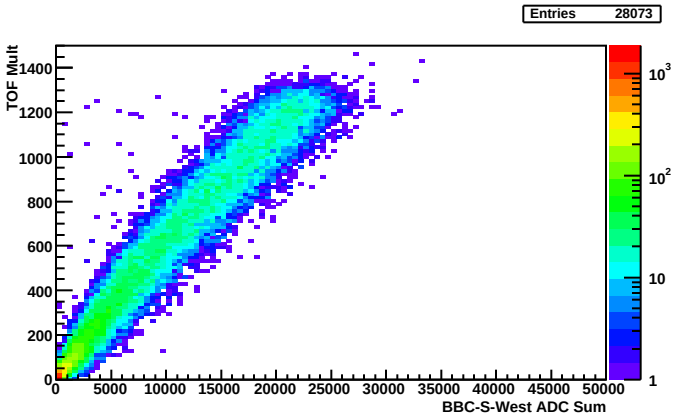

BBQ-VP004 (HI threshold)
Entries 449168
ADC
QT Input Channel

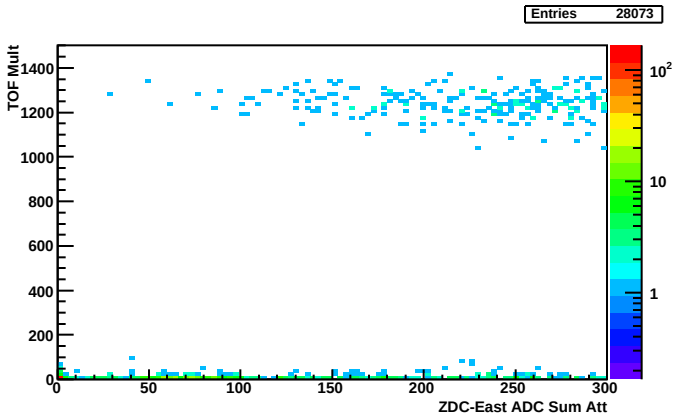

BBQ-VP004 (HI threshold)
Entries 449168
TAC
QT Input Channel

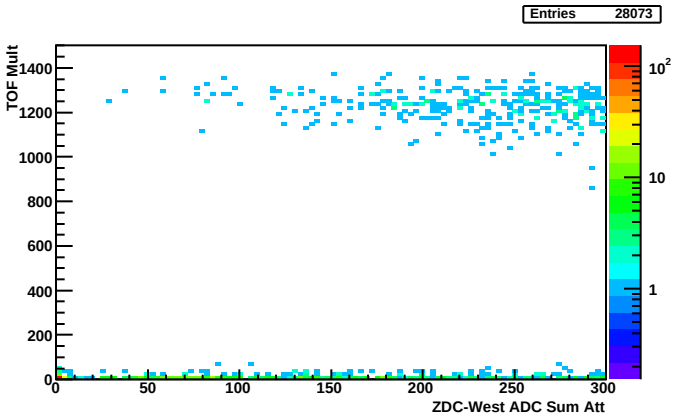

Entries 28073
TOF Mult
BBC-L-East ADC Sum

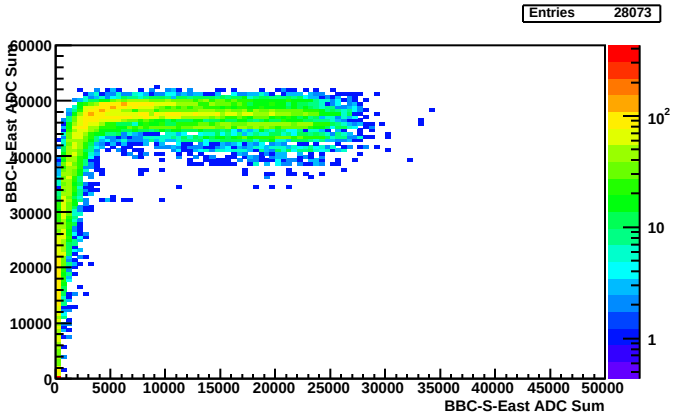

Entries 28073
TOF Mult
BBC-L-West ADC Sum

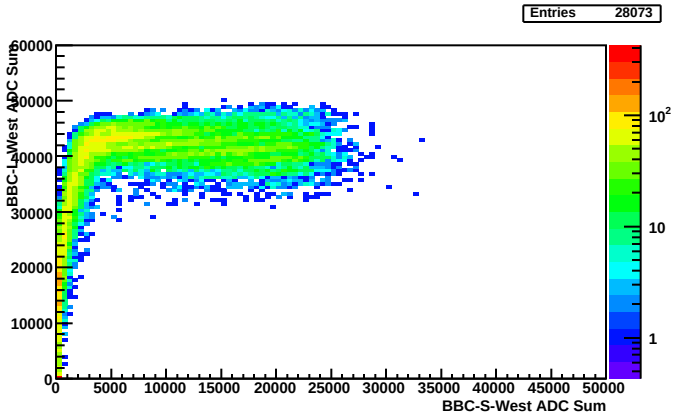

Entries 28073
TOF Mult
BBC-S-East ADC Sum

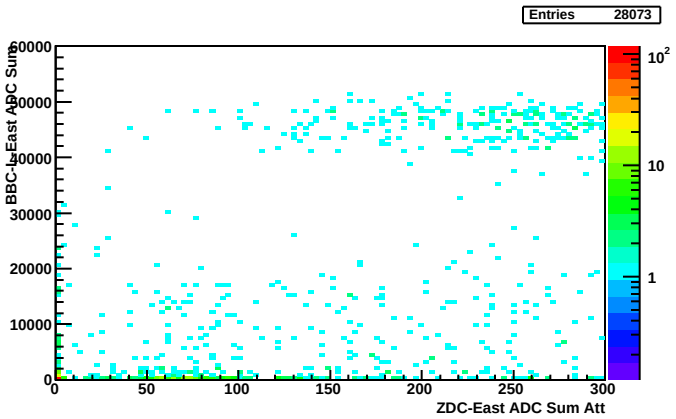

Entries 28073
TOF Mult
BBC-S-West ADC Sum


Entries 28073
TOF Mult
ZDC-East ADC Sum Att


Entries 28073
TOF Mult
ZDC-West ADC Sum Att


Entries 28073
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 28073
BBC-L-West ADC Sum
BBC-S-West ADC Sum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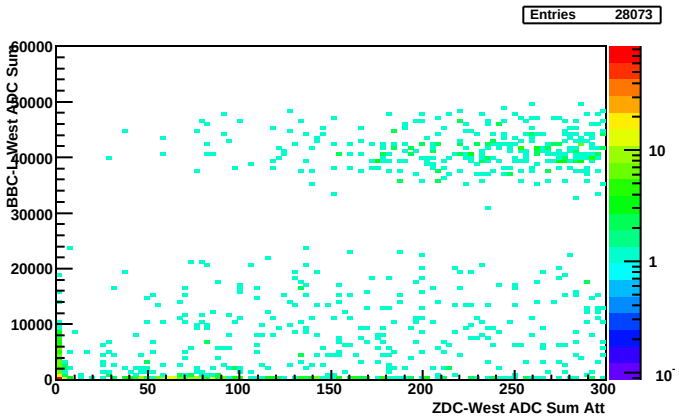
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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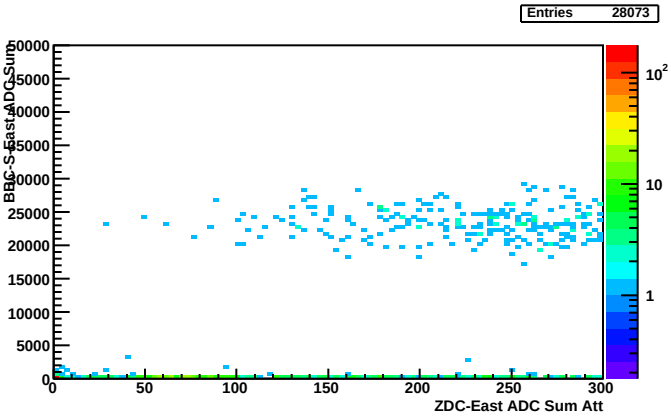
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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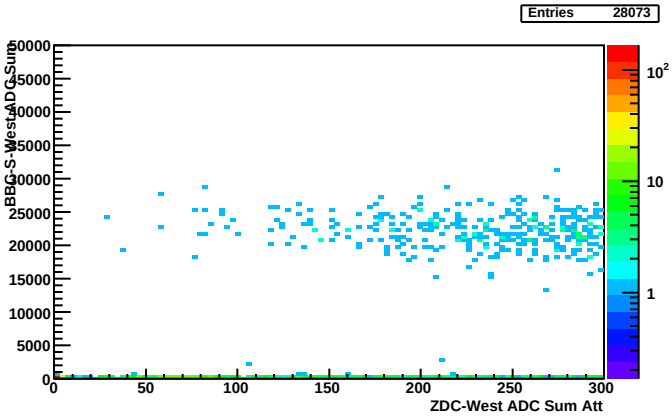
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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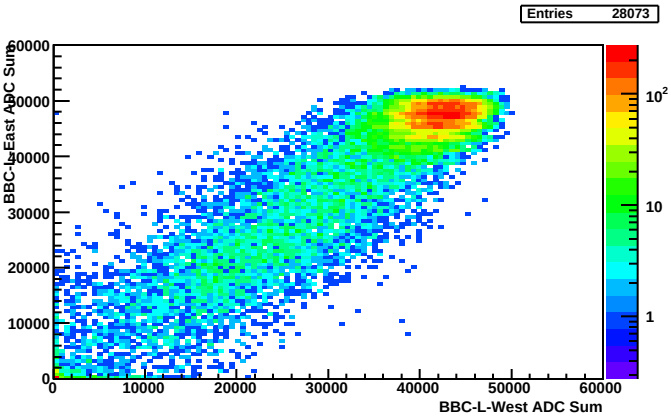
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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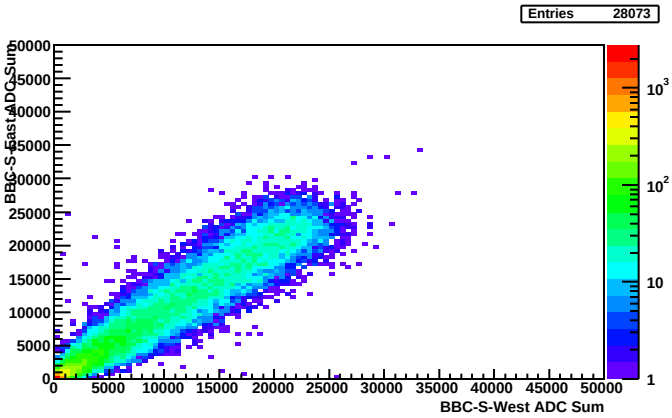
BBC-L-East ADC Sum
BBC-L-West ADC Sum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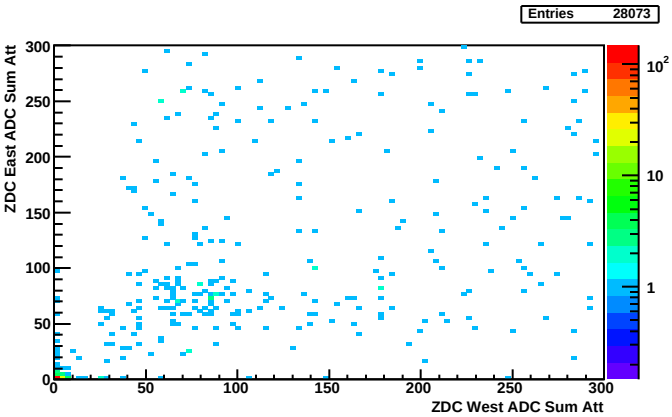
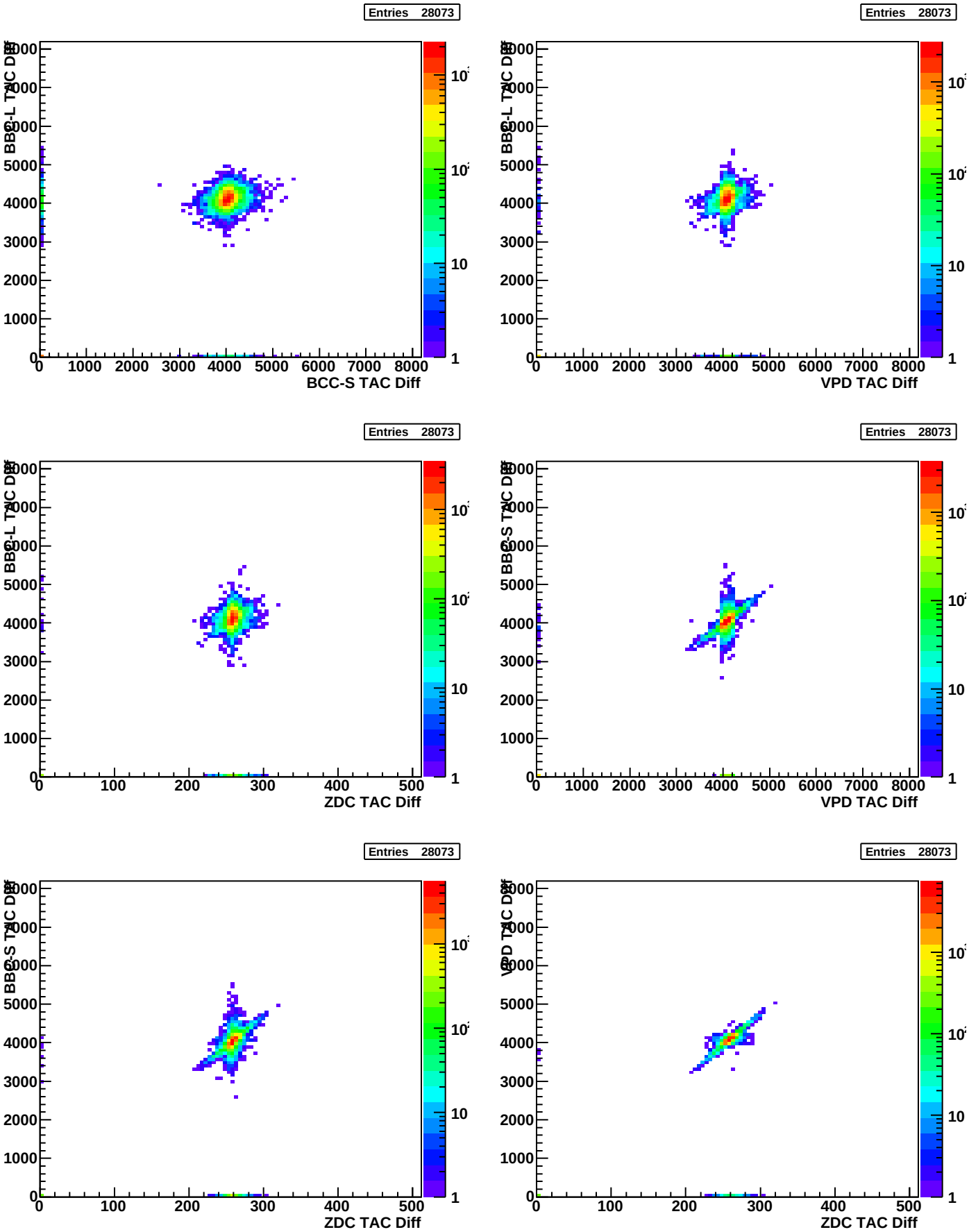
BBC-S-West ADC Sum


Entries 28073
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 28073
BBC-L TAC Diff
BCC-S TAC Diff
Entries 28073
BBC-L TAC Diff
VPD TAC Diff
Entries 28073
BBC-L TAC Diff
ZDC TAC Diff
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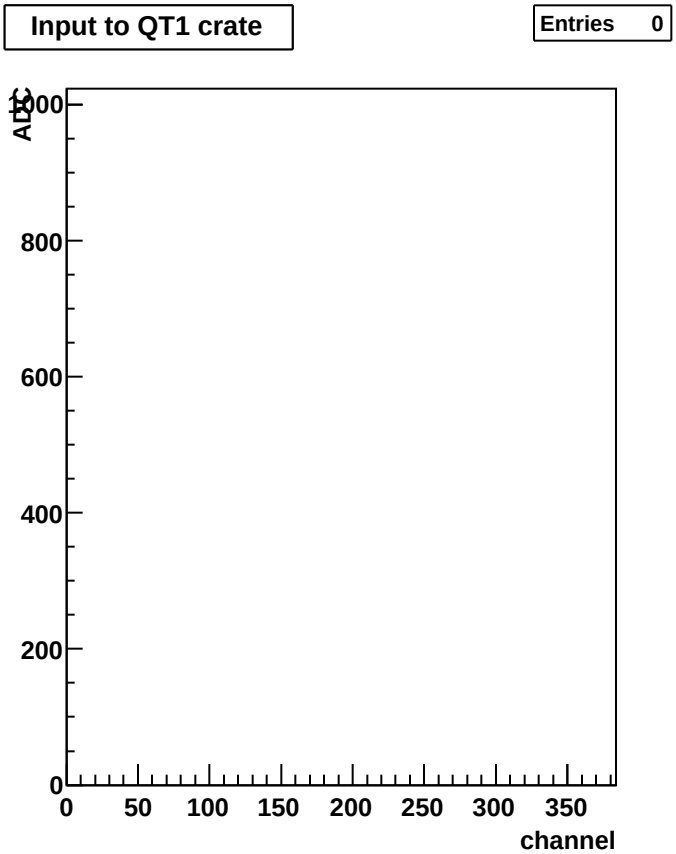
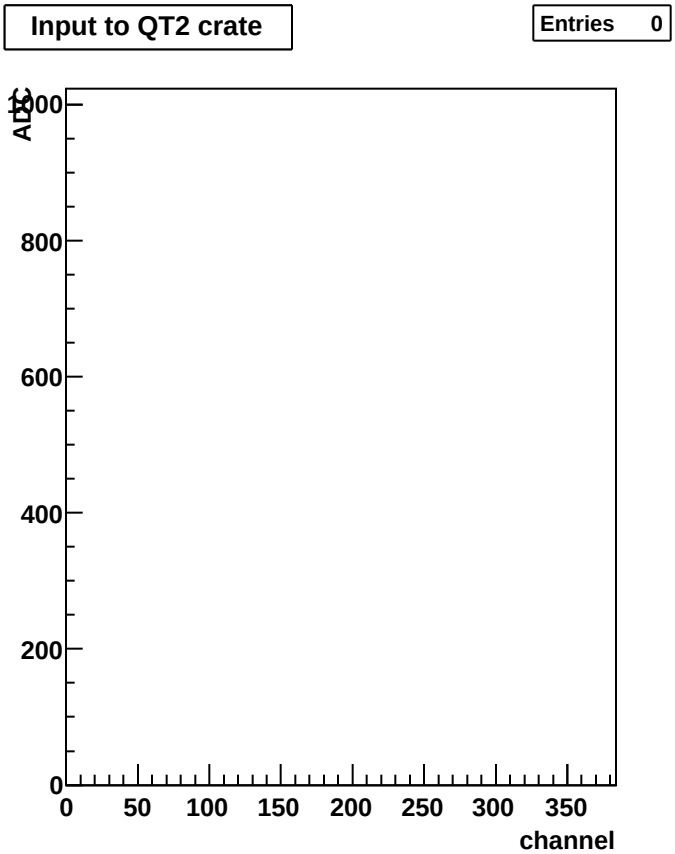
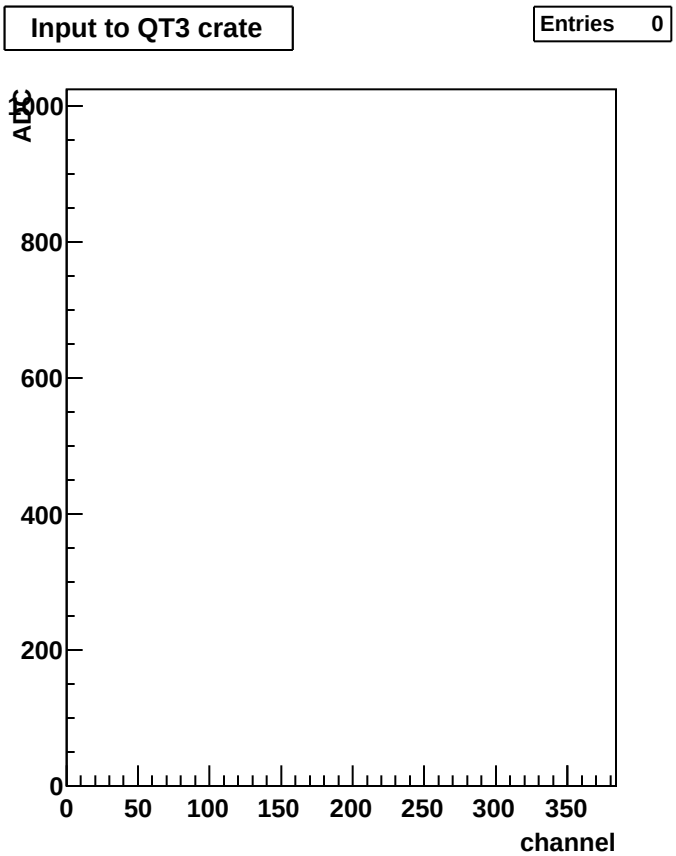
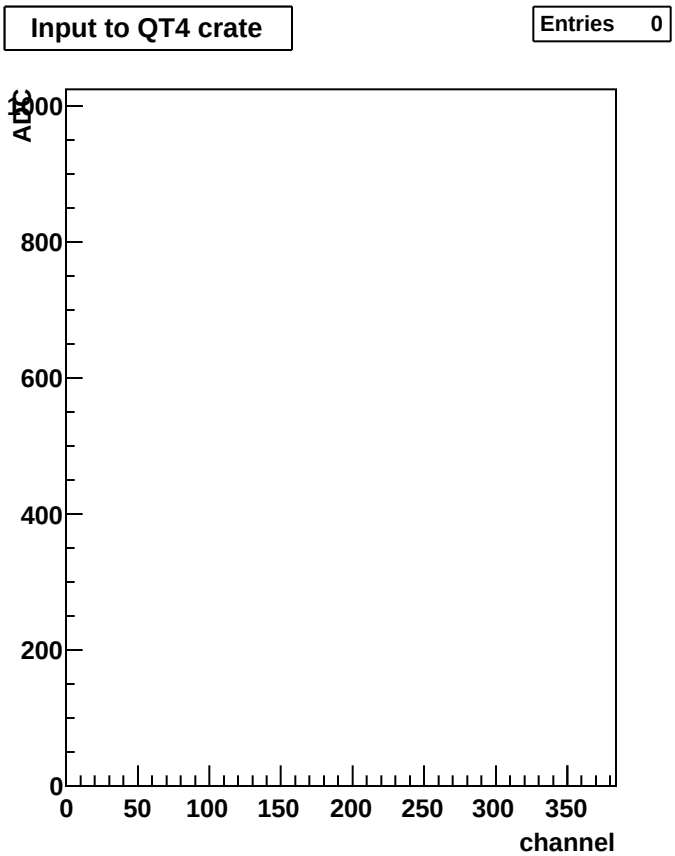
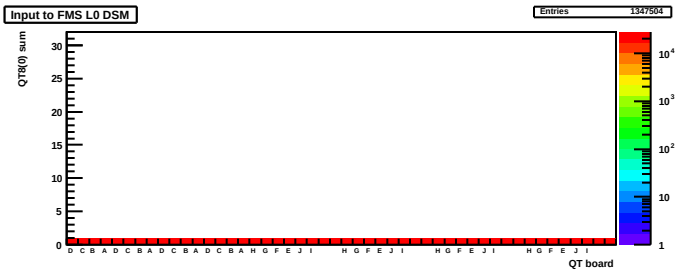
Entries 28073
VPD TAC Diff
ZDC TAC Diff

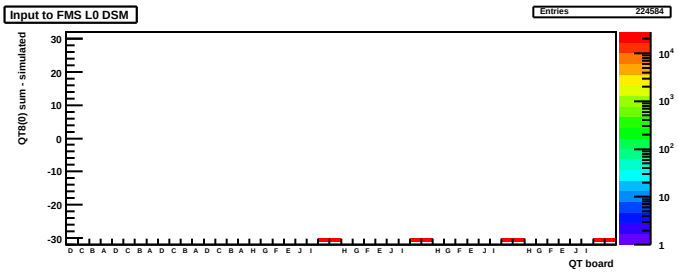

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

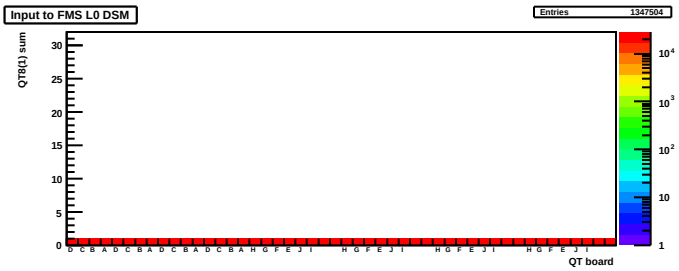

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

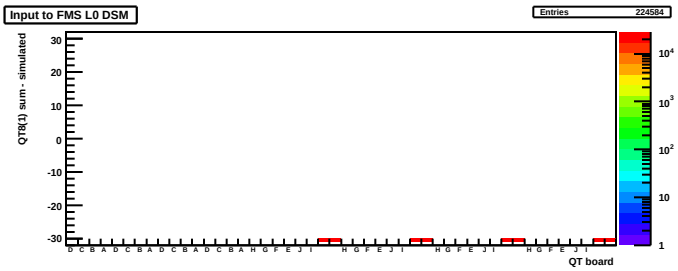

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

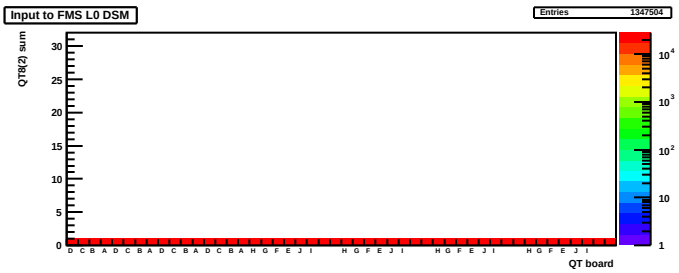

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

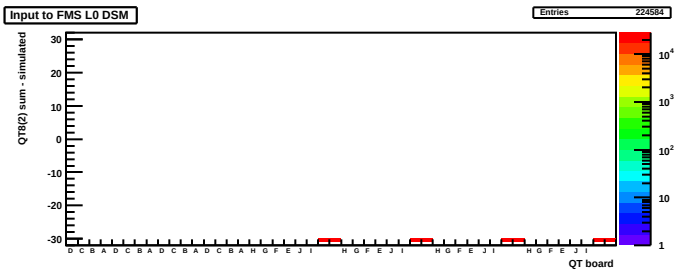

Input to FMS L0 DSM
Entries 1347504
QT8(0) sum
QT board

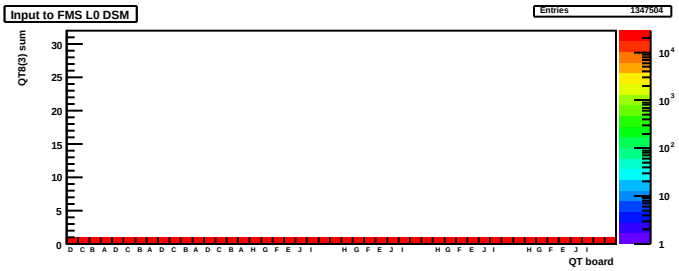

Input to FMS L0 DSM
Entries 224584
QT8(0) sum - simulated
QT board

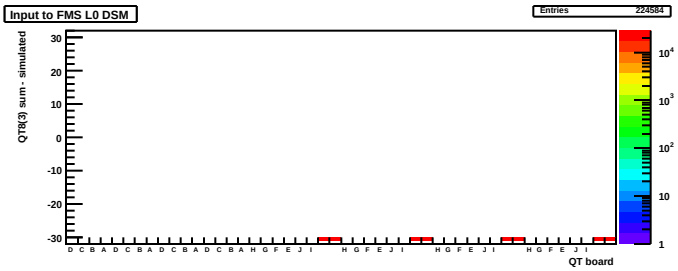

Input to FMS L0 DSM
Entries 1347504
QT8(1) sum
QT board

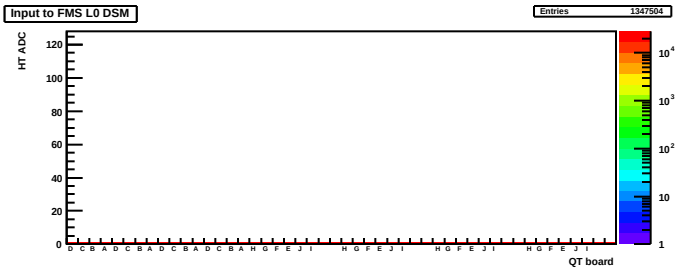

Input to FMS L0 DSM
Entries 224584
QT8(1) sum - simulated
QT board

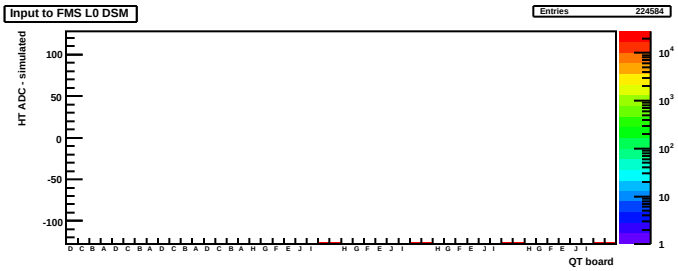

Input to FMS L0 DSM
Entries 1347504
QT8(2) sum
QT board

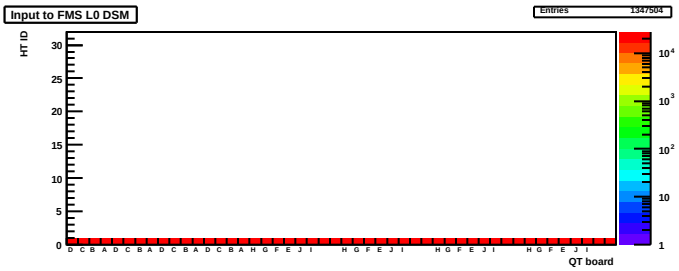

Input to FMS L0 DSM
Entries 224584
QT8(2) sum - simulated
QT board

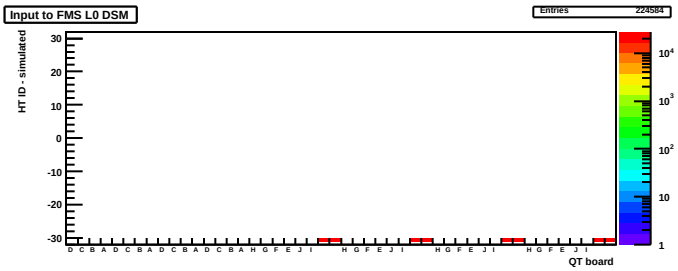

Input to FMS L0 DSM
Entries 1347504
QT8(3) sum
QT board

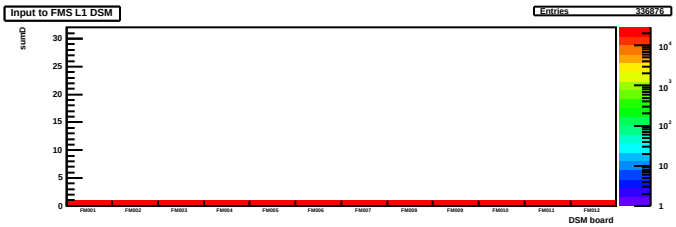

Input to FMS L0 DSM
Entries 224584
QT8(3) sum - simulated
QT board

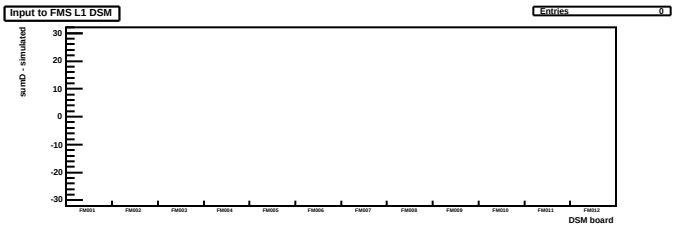

Input to FMS L0 DSM
Entries 1347504
HT ADC
QT board

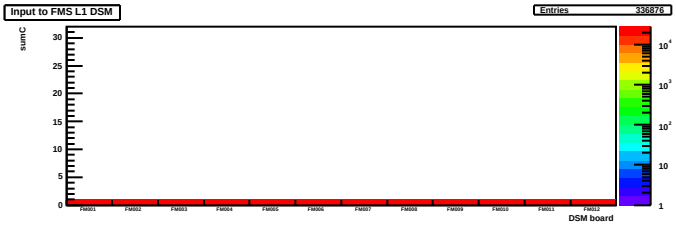

Input to FMS L0 DSM
Entries 224584
HT ADC - simulated
QT board

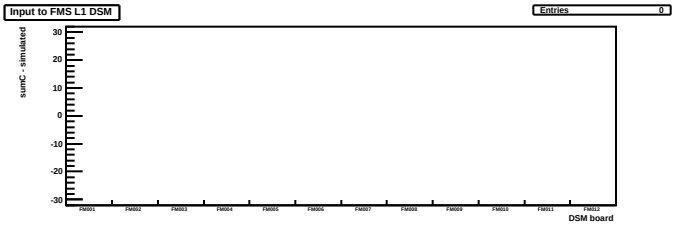

Input to FMS L0 DSM
Entries 1347504
HT ID
QT board

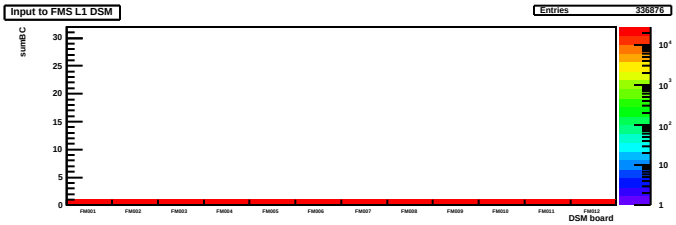

Input to FMS L0 DSM
Entries 224584
HT ID - simulated
QT board

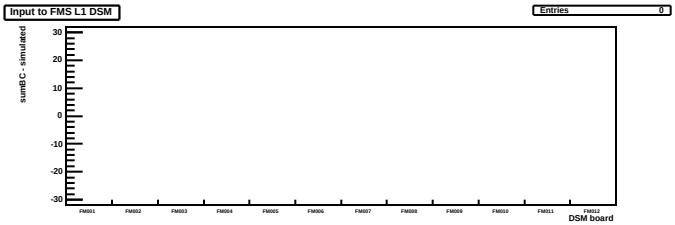

Input to FMS L1 DSM
Entries 336876
sumD
DSM board

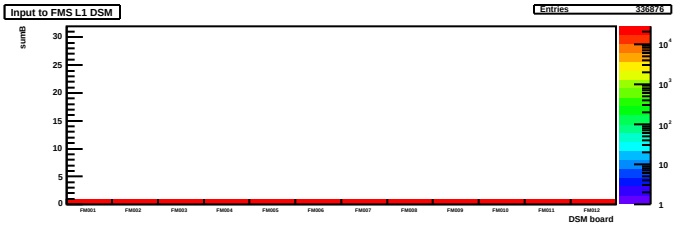

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

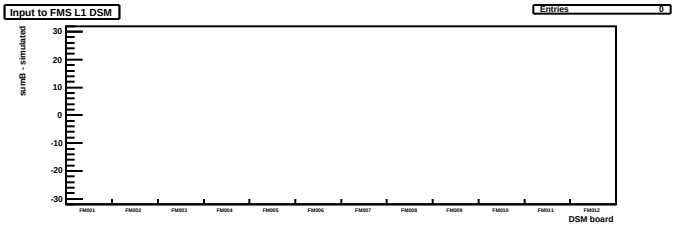

Input to FMS L1 DSM
Entries 336876
sumC
DSM board

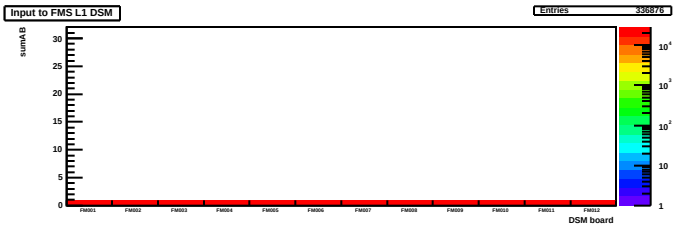

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

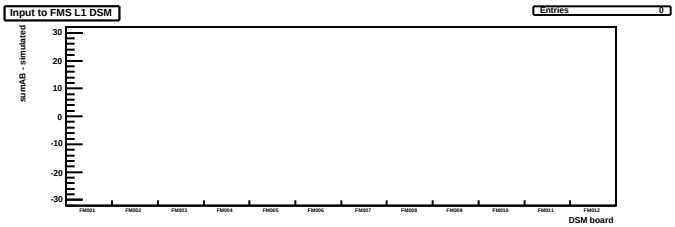

Input to FMS L1 DSM
Entries 336876
sumBC
DSM board

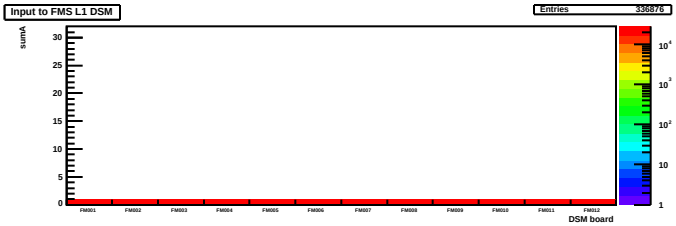

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

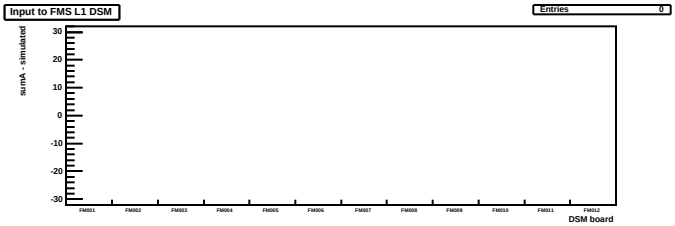

Input to FMS L1 DSM
Entries 336876
sumB
DSM board

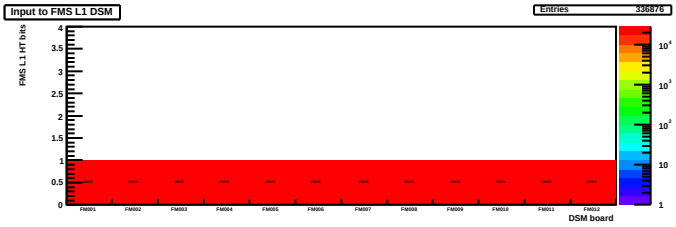

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

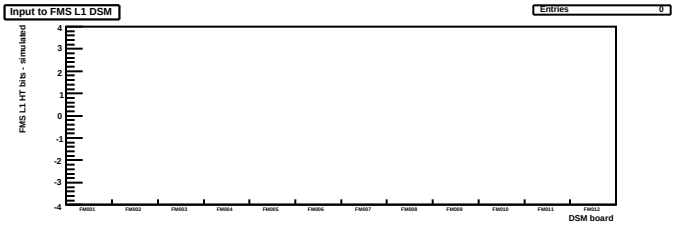

Input to FMS L1 DSM
Entries 336876
sumAB
DSM board

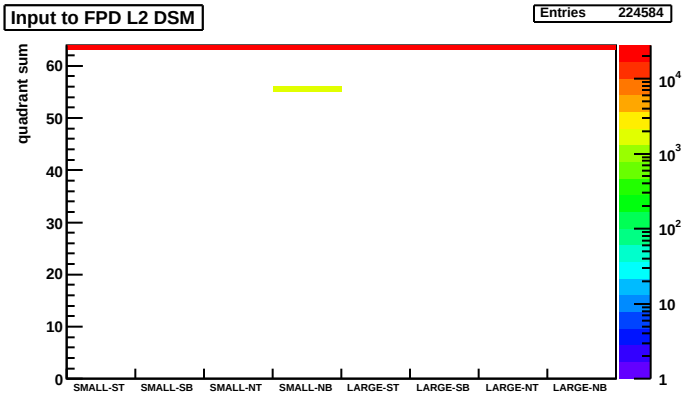

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

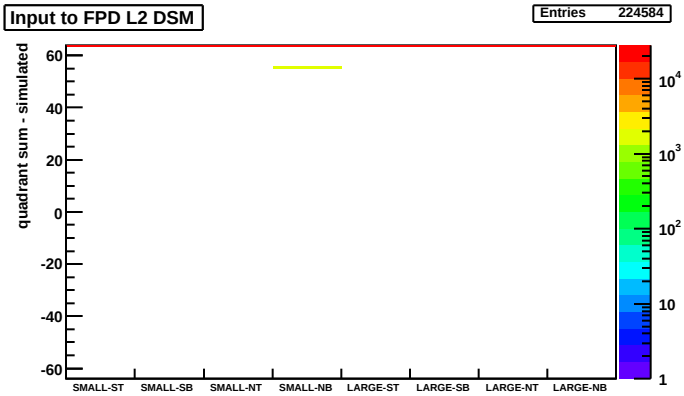

Input to FMS L1 DSM
Entries 336876
sumA
DSM board

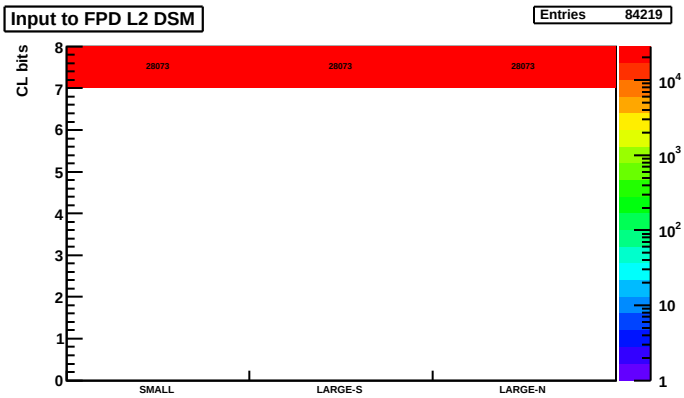

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

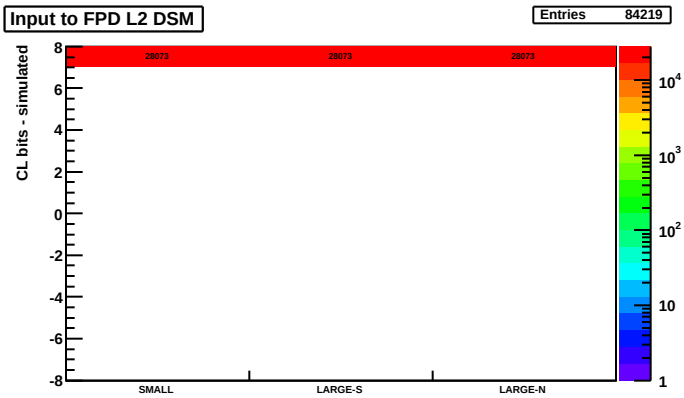

Input to FMS L1 DSM
Entries 336876
FMS L1 HT bits
DSM board

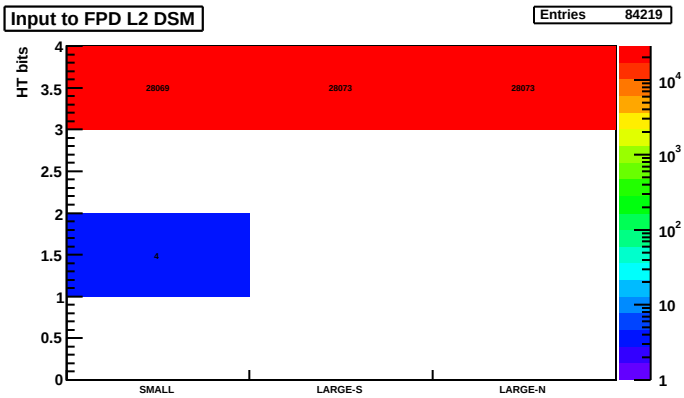

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

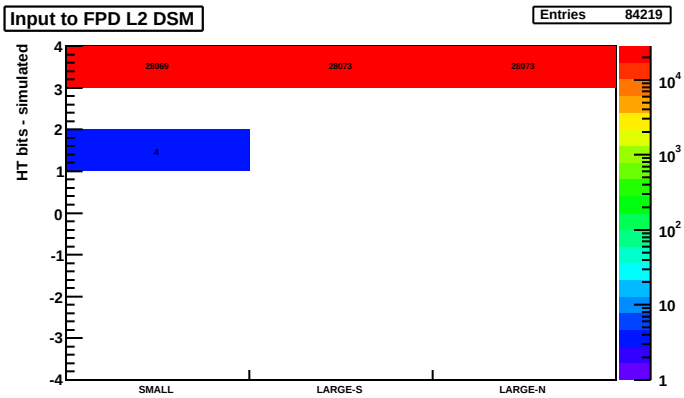

Input to FPD L2 DSM
Entries 224584
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

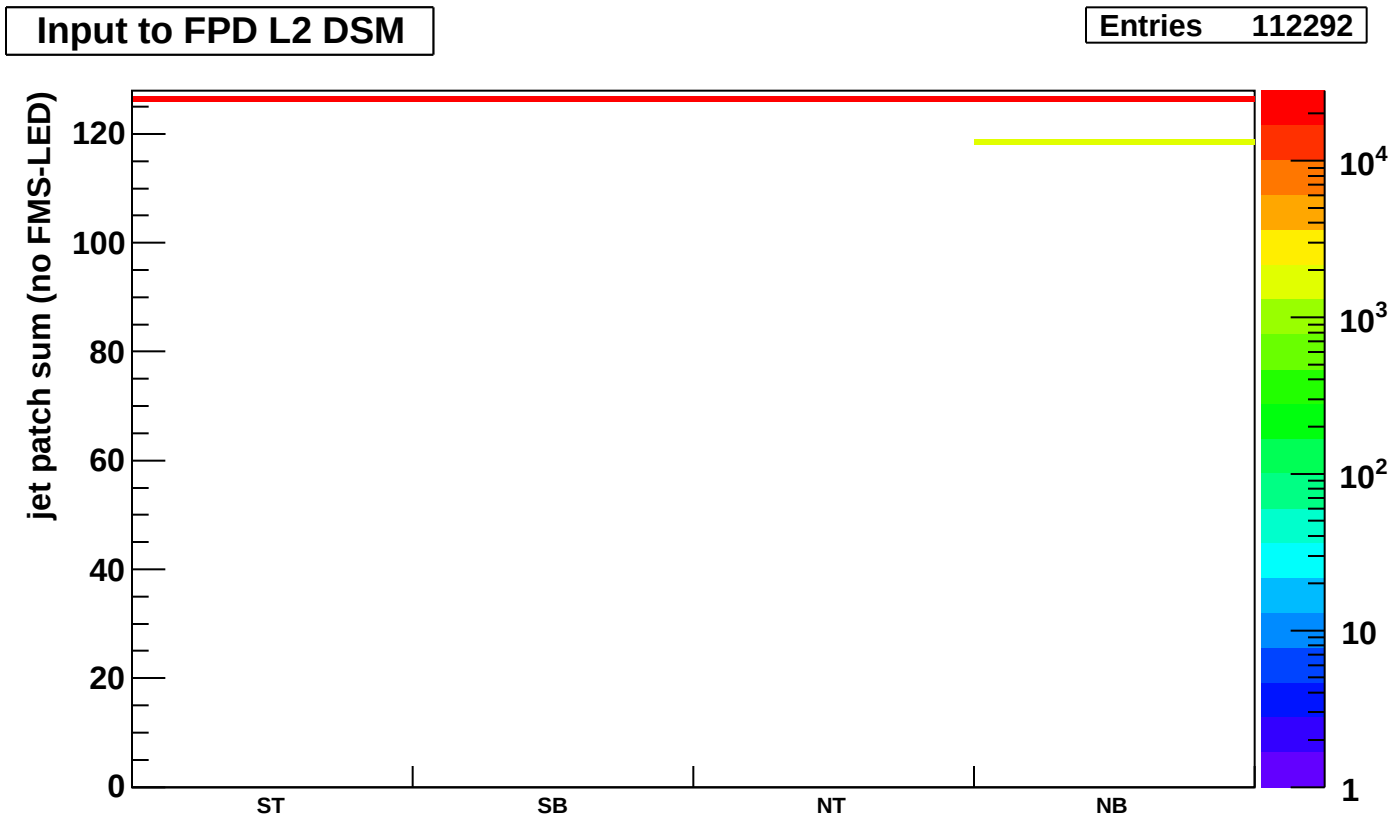

Input to FPD L2 DSM
Entries 224584
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

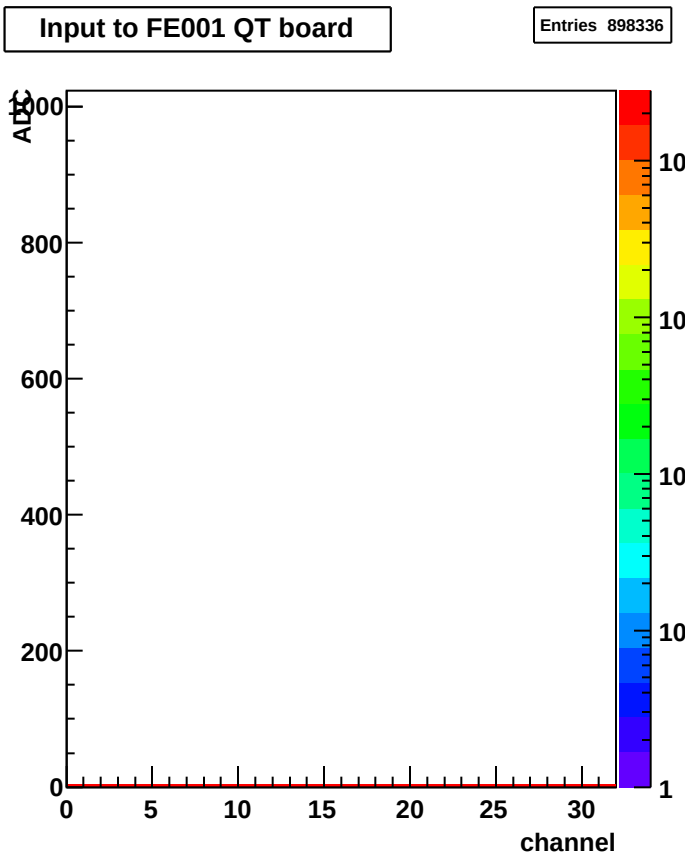

Input to FPD L2 DSM
Entries 84219
CL bits
28073 28073 28073
SMALL LARGE-S LARGE-N

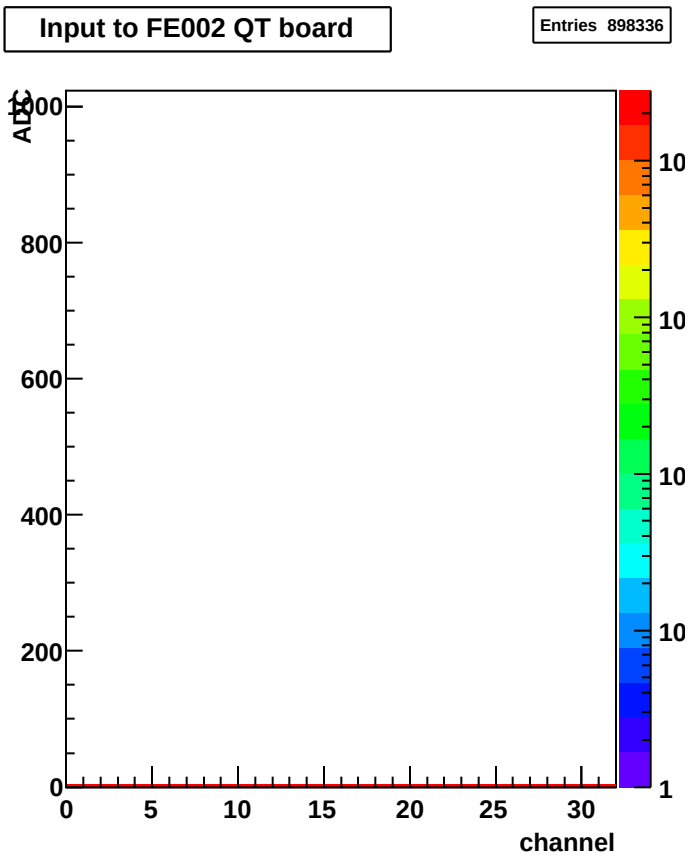

Input to FPD L2 DSM
Entries 84219
CL bits - simulated
28073 28073 28073
SMALL LARGE-S LARGE-N

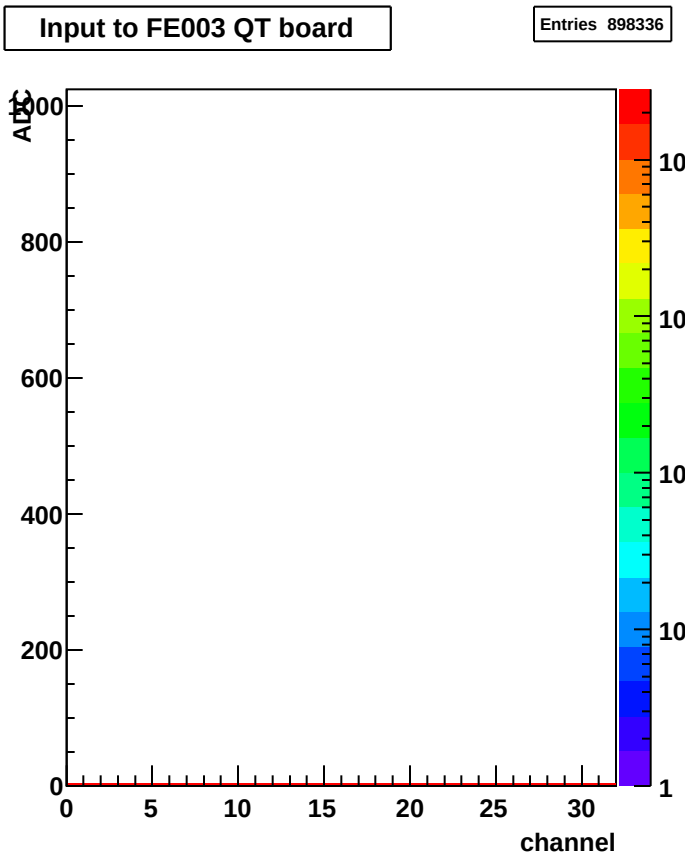

Input to FPD L2 DSM
Entries 84219
HT bits
28069 28073 28073
4
SMALL LARGE-S LARGE-N

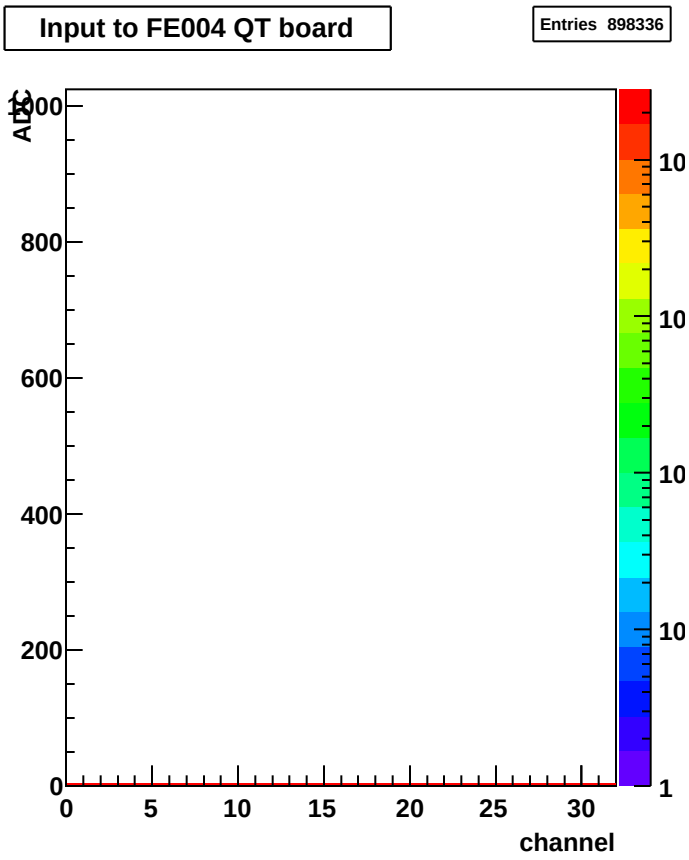

Input to FPD L2 DSM
Entries 84219
HT bits - simulated
28069 28073 28073
4
SMALL LARGE-S LARGE-N

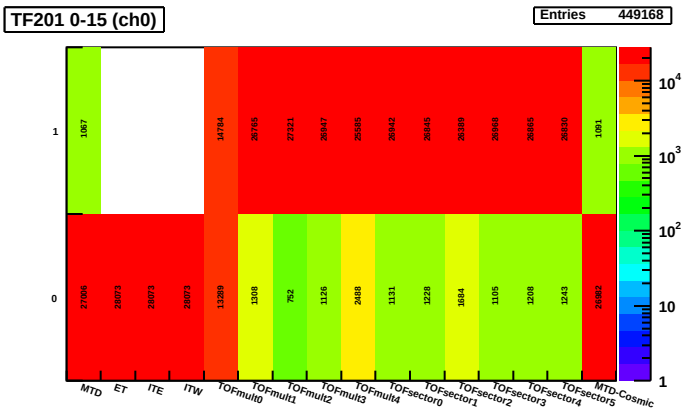

Input to FPD L2 DSM
Entries 112292
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

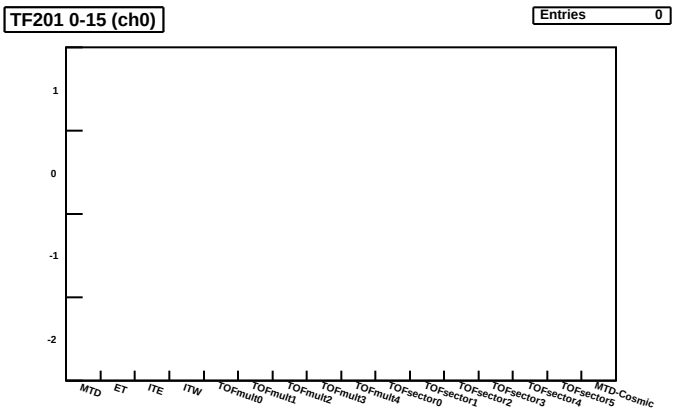

Input to FE001 QT board
Entries 898336
ADC
channel

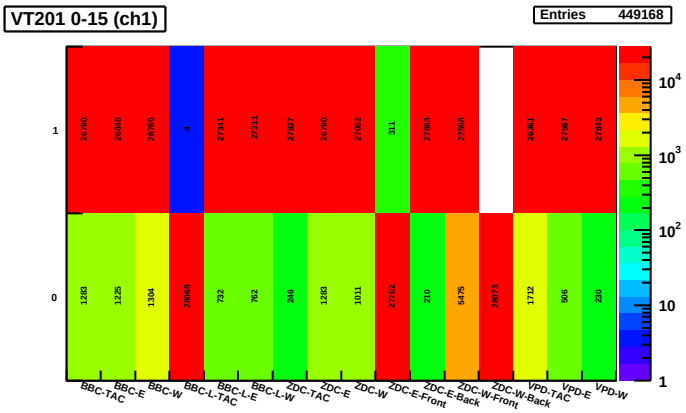

Input to FE002 QT board
Entries 898336
ADC
channel

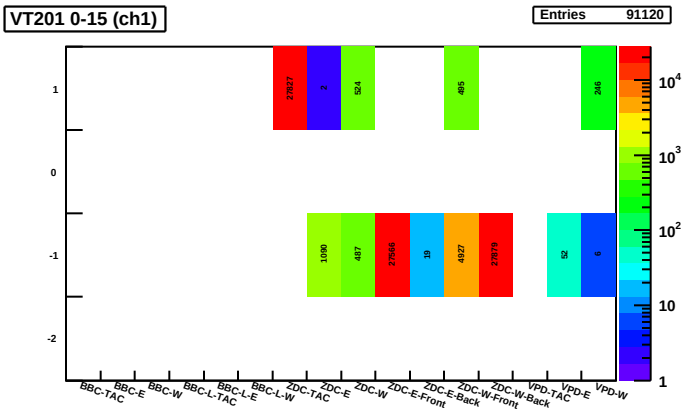

Input to FE003 QT board
Entries 898336
ADC
channel

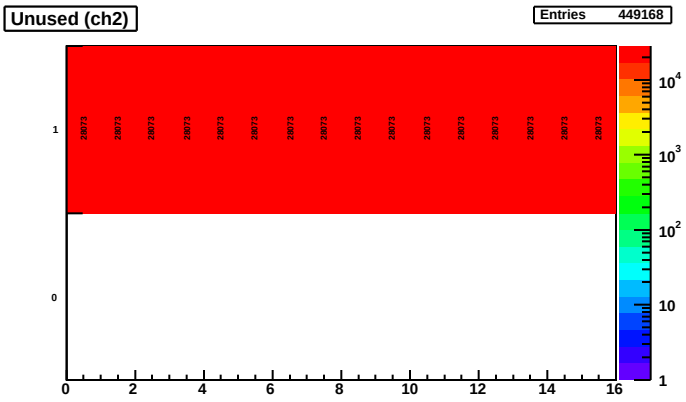

Input to FE004 QT board
Entries 898336
ADC
channel

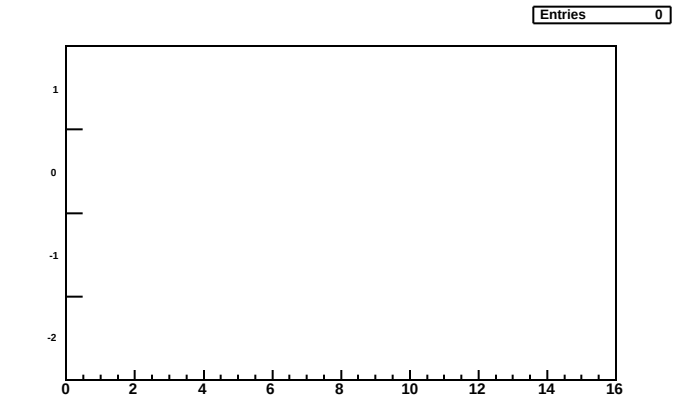

TF201 0-15 (ch0)
Entries 449168
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

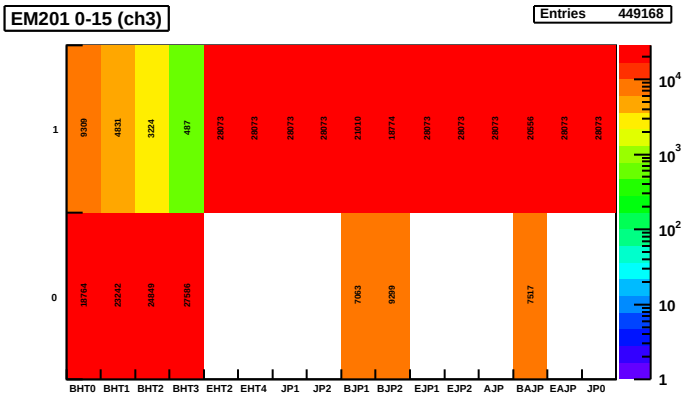

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

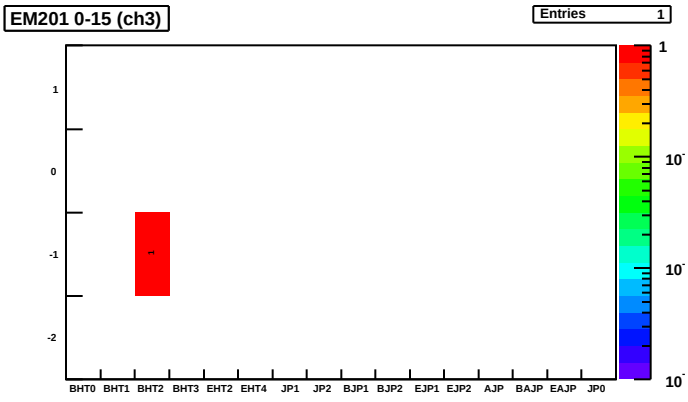

VT201 0-15 (ch1)
Entries 449168
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 91120
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

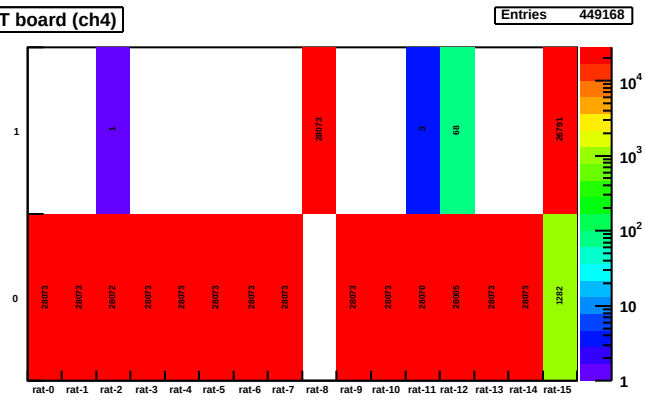

Unused (ch2)
Entries 449168

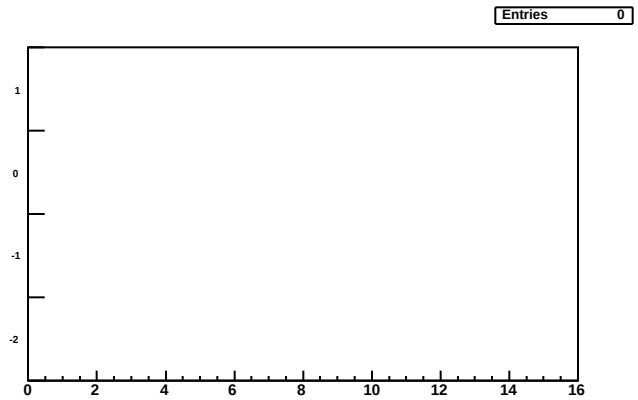

Entries 0


EM201 0-15 (ch3)
Entries 449168
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

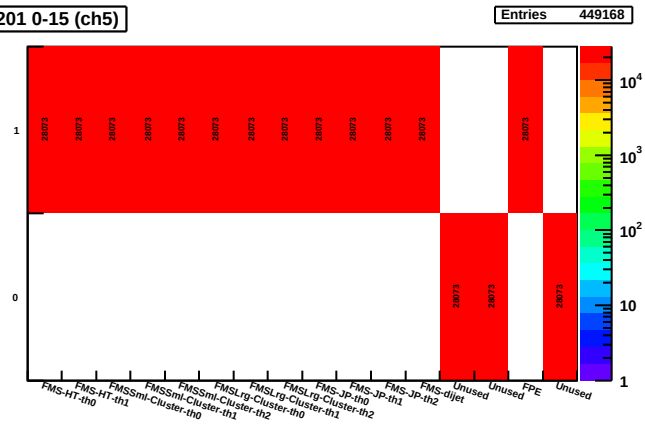

EM201 0-15 (ch3)
Entries 1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

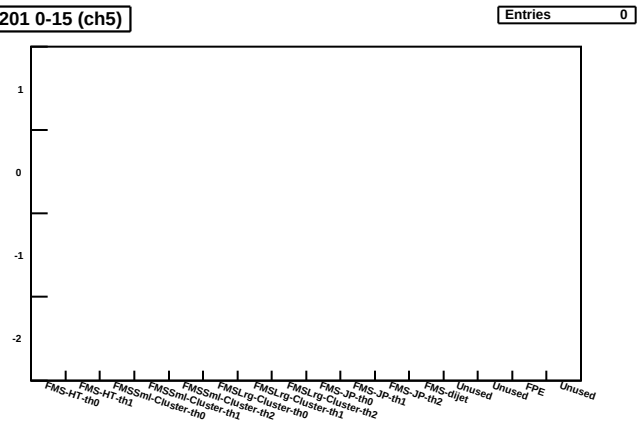




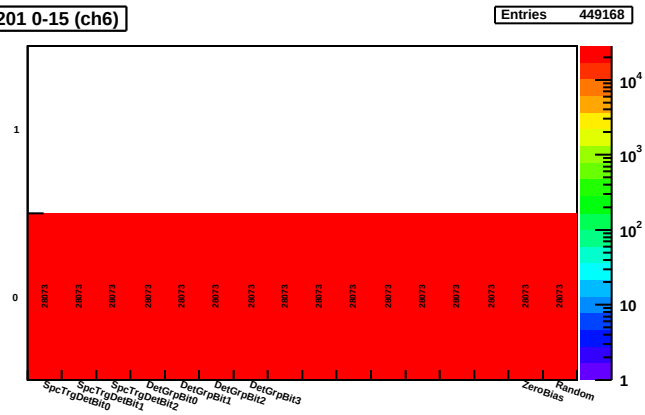
FP201 0-15 (ch5)

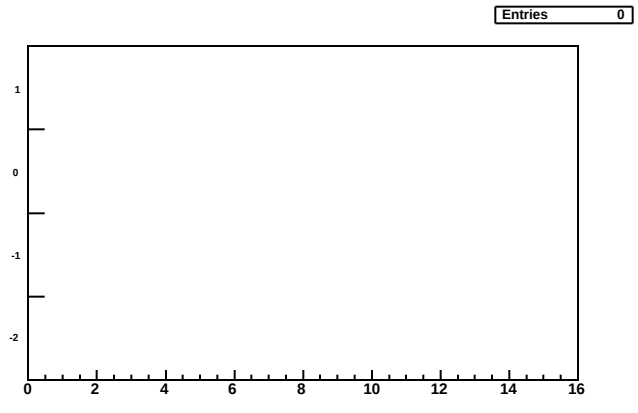
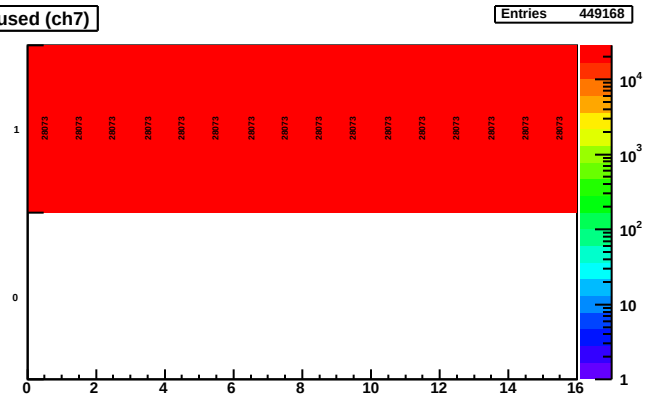
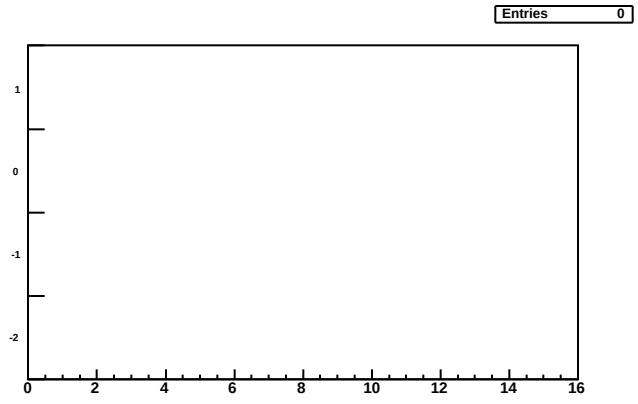


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)