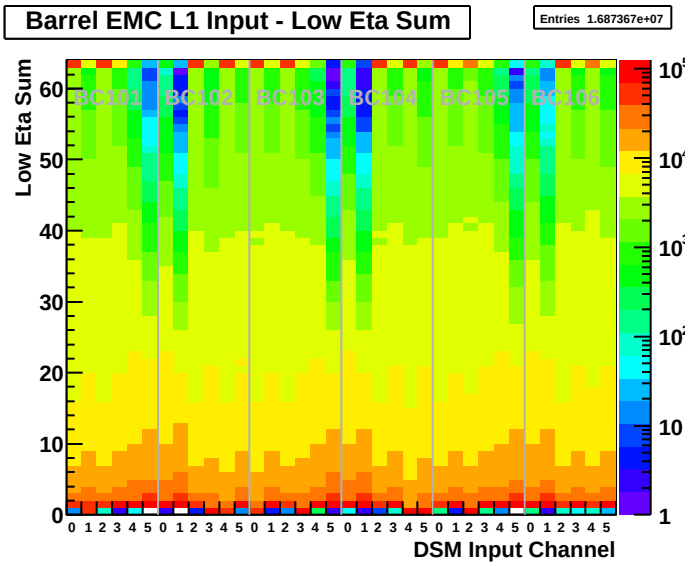
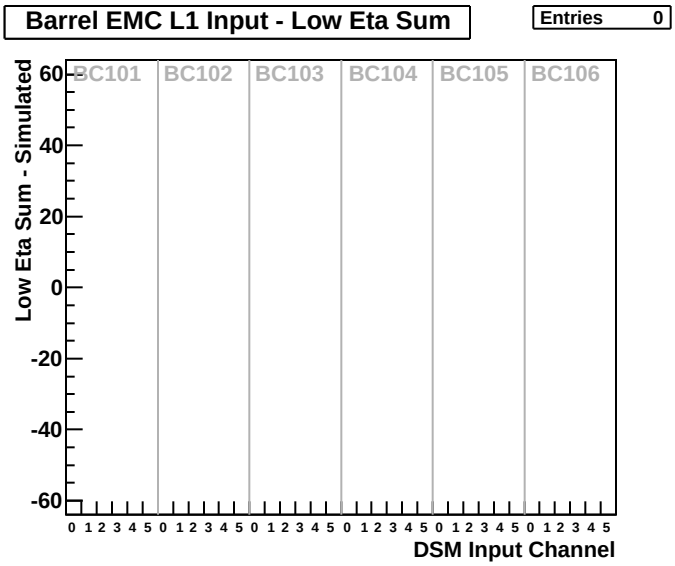
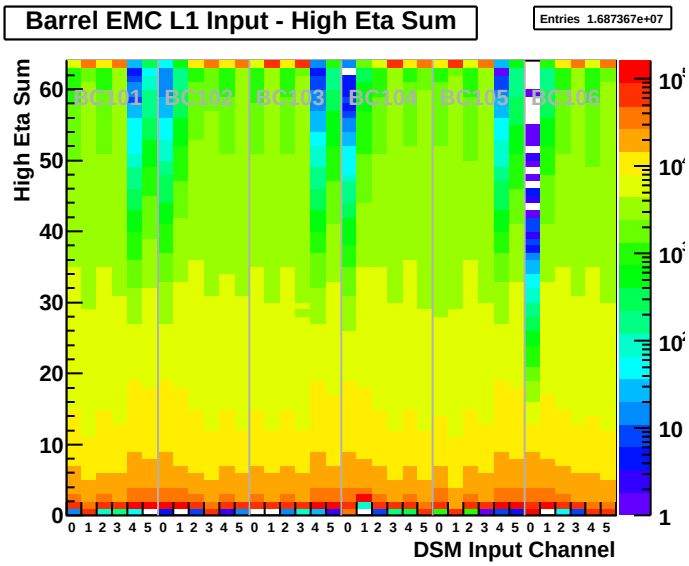
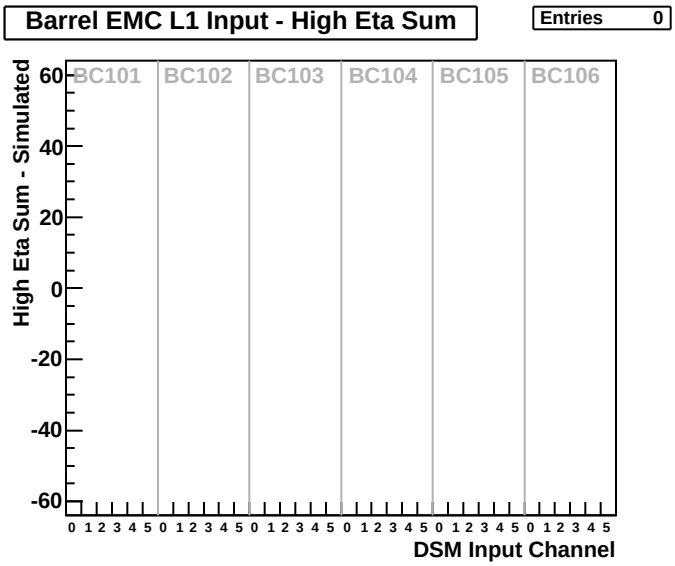
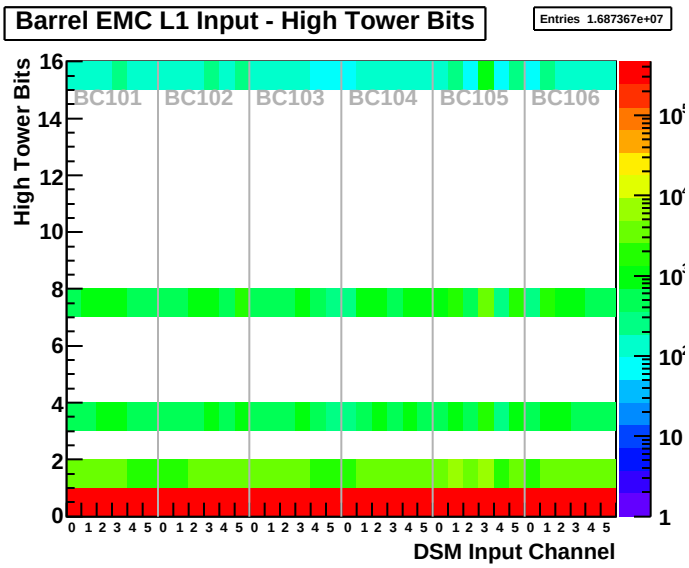
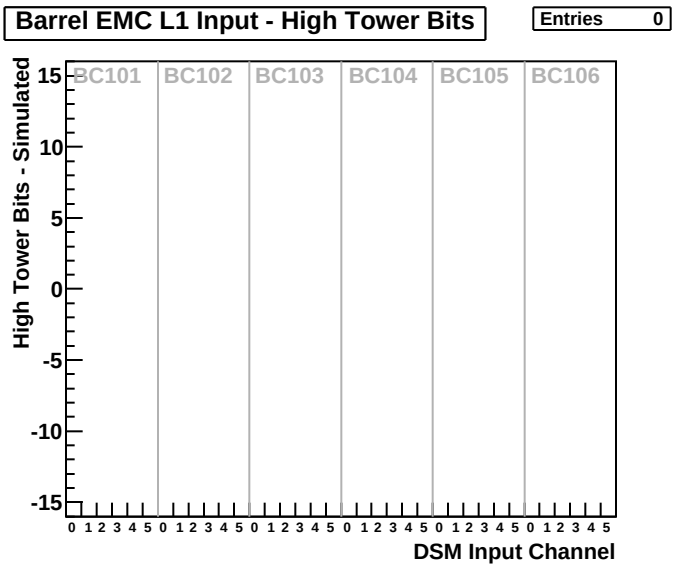

Barrel EMC L1 Input - Low Eta Sum
Entries 1.687367e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

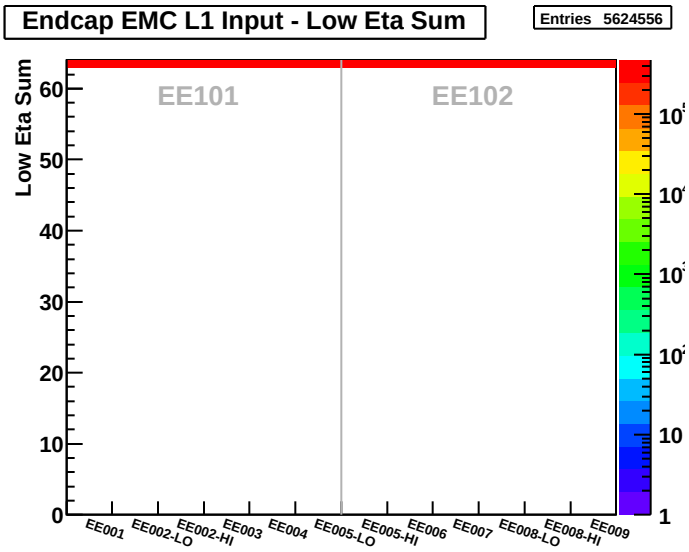

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

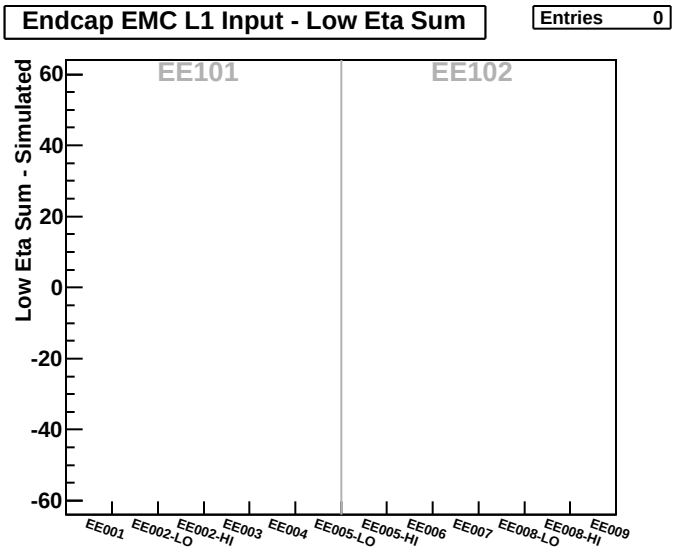

Barrel EMC L1 Input - High Eta Sum
Entries 1.687367e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

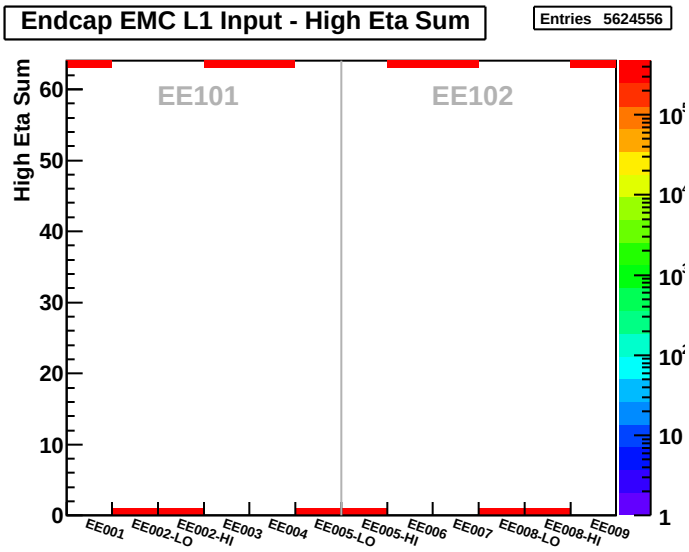

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

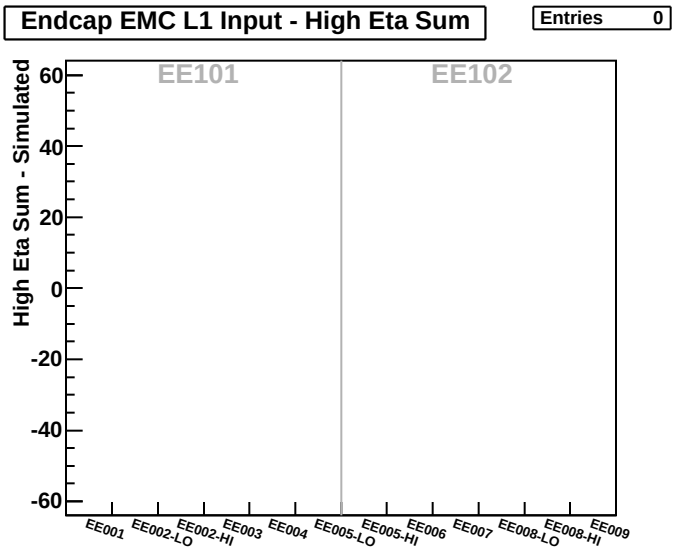

Barrel EMC L1 Input - High Tower Bits
Entries 1.687367e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

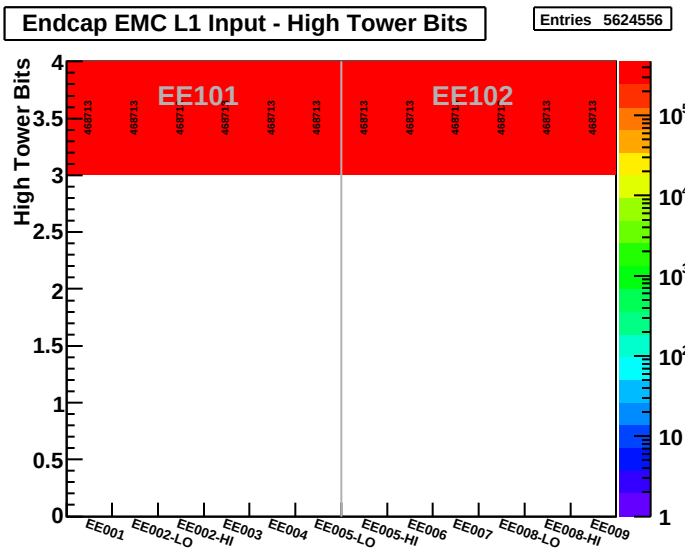

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

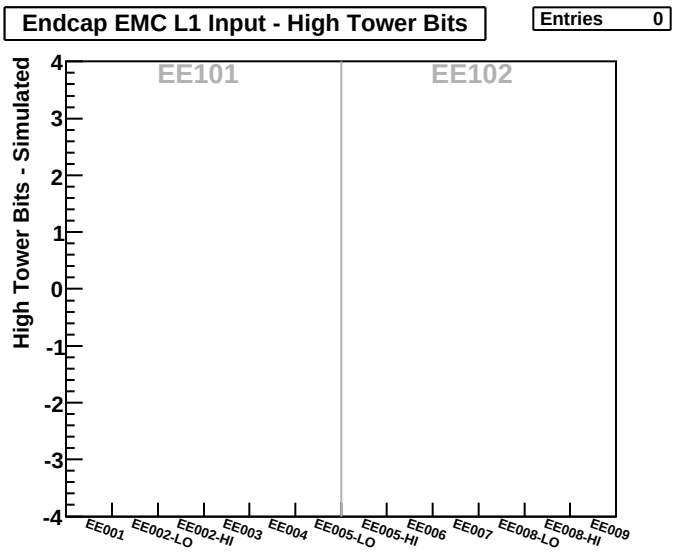

Endcap EMC L1 Input - Low Eta Sum
Entries 5624556
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

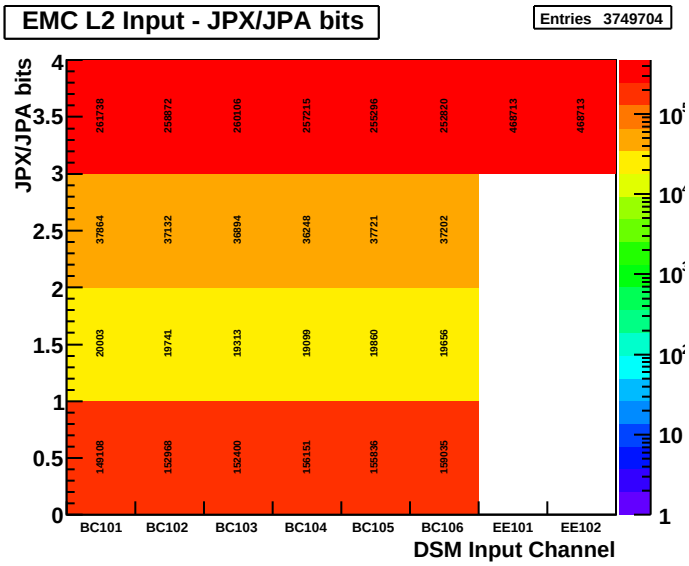

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

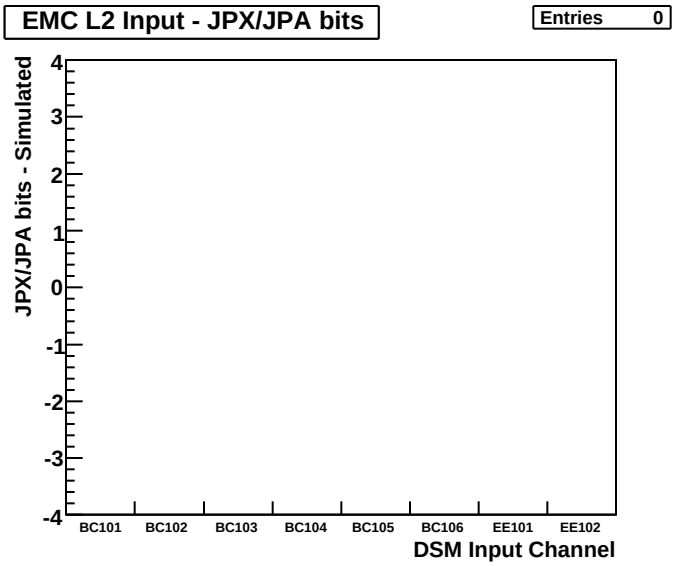

Endcap EMC L1 Input - High Eta Sum
Entries 5624556
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

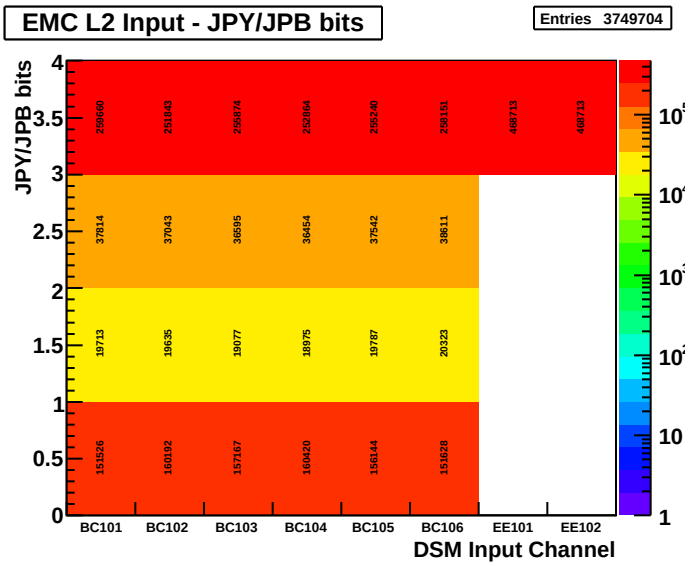

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

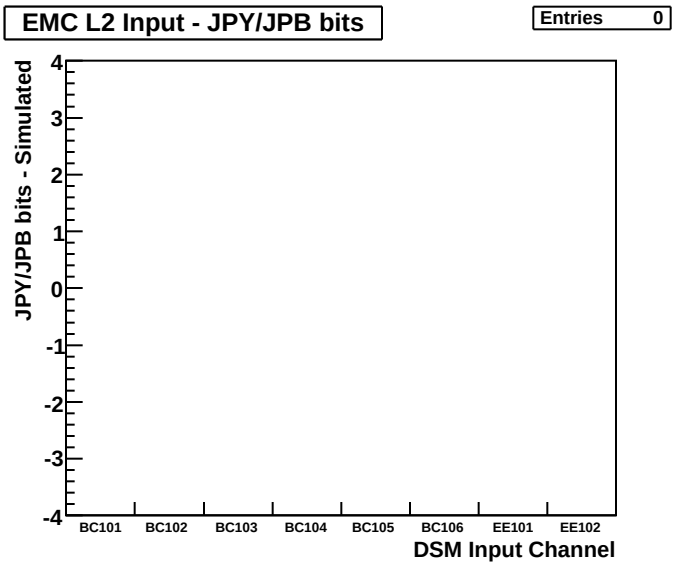

Endcap EMC L1 Input - High Tower Bits
Entries 5624556
High Tower Bits
EE101
EE102
468713
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

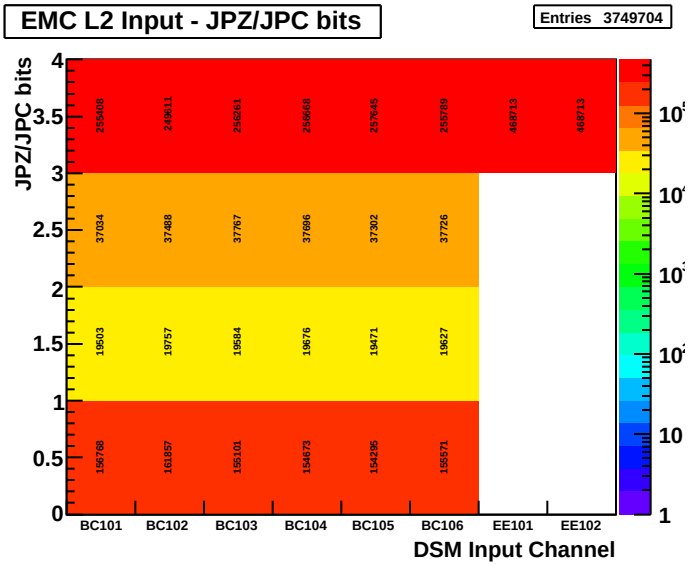

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

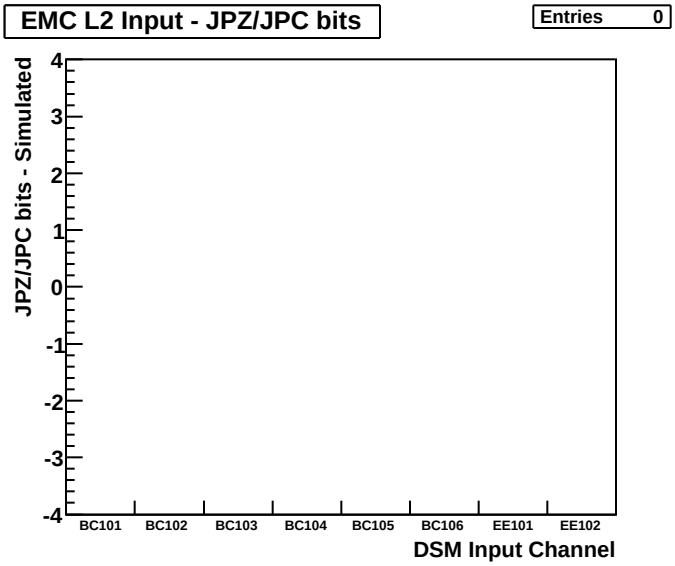

EMC L2 Input - JPX/JPA bits
Entries 3749704
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
261738 258872 260106 257215 255296 252820 468713 468713
37864 37132 36894 36248 37721 37202
20003 19741 19313 19099 19860 19656
149108 152968 152400 158151 155836 159035

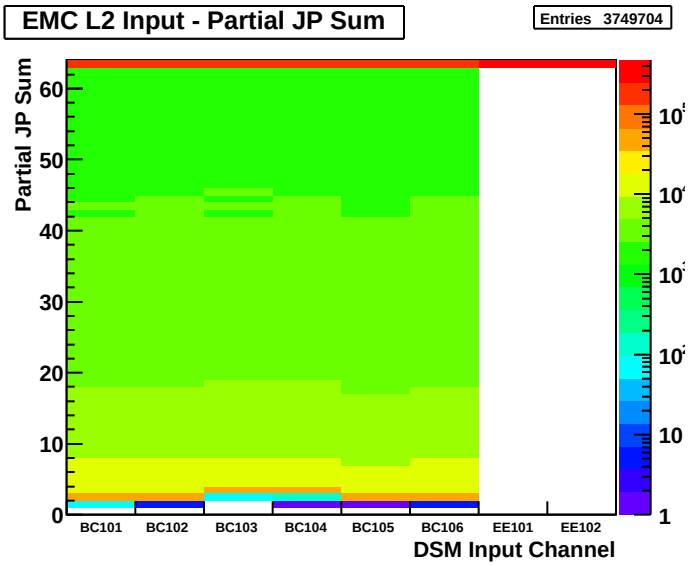

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

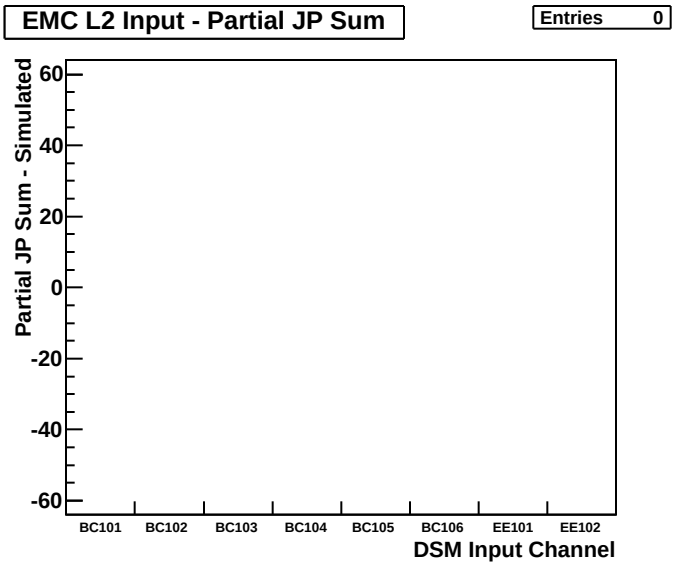

EMC L2 Input - JPY/JPB bits
Entries 3749704
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
259660 251843 255874 252864 255240 258151 468713 468713
37814 37043 36595 36454 37542 38611
19713 19635 19077 18975 19787 20323
151526 160192 157167 160420 156144 151628

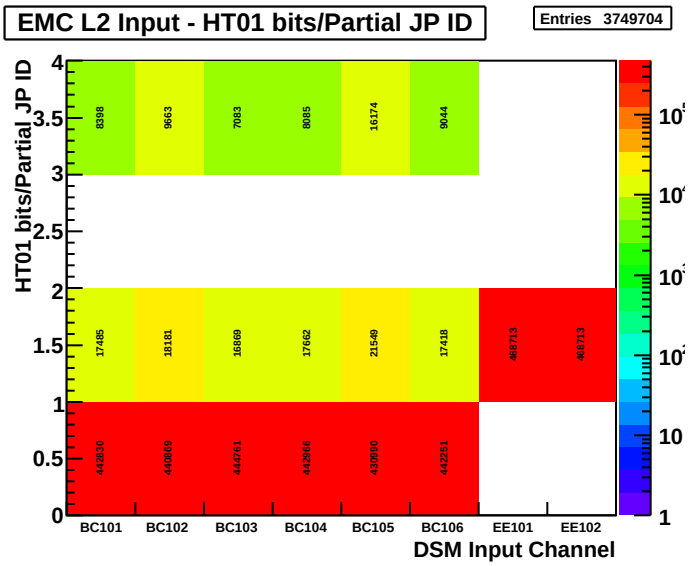

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

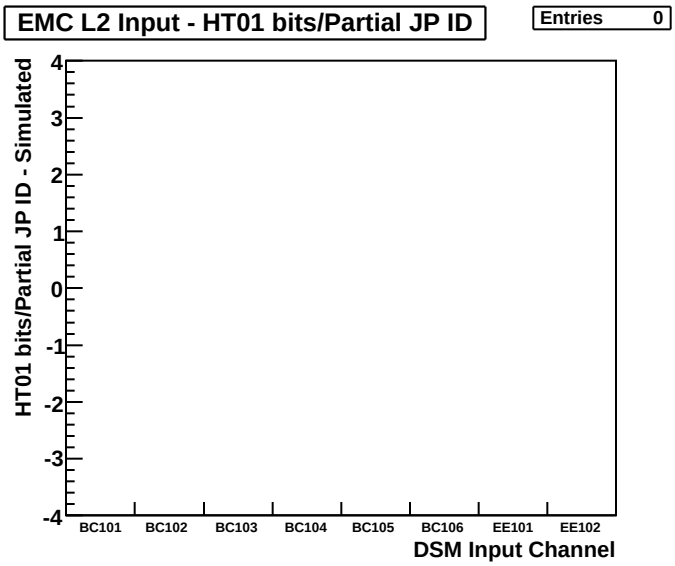

EMC L2 Input - JPZ/JPC bits
Entries 3749704
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
255408 249611 252261 256668 257645 257589 468713 468713
37034 37488 37767 37696 37302 37726
19503 19757 19584 19676 19471 19627
156768 161857 155101 154673 154295 155571

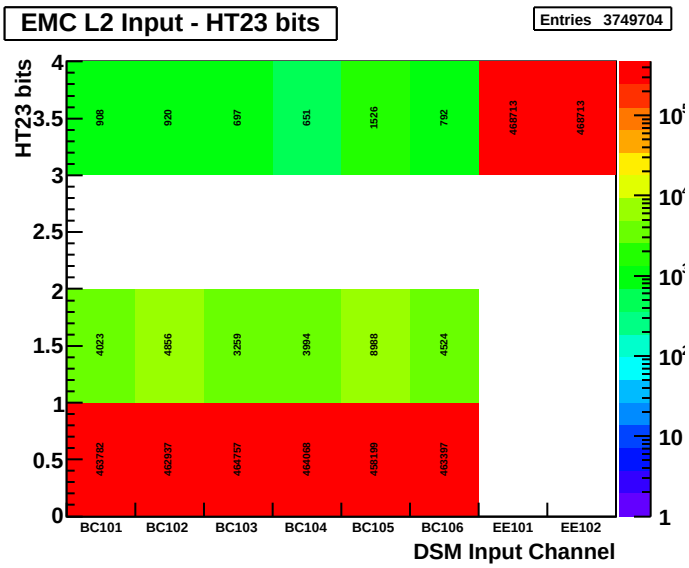

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

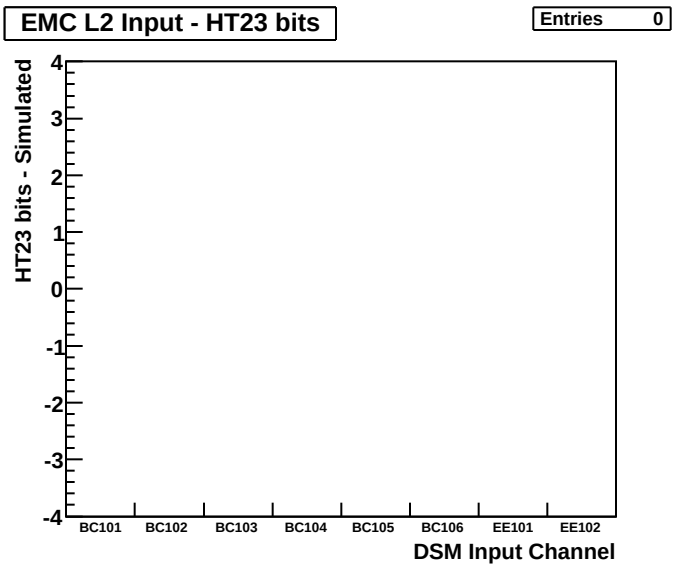

EMC L2 Input - Partial JP Sum
Entries 3749704
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

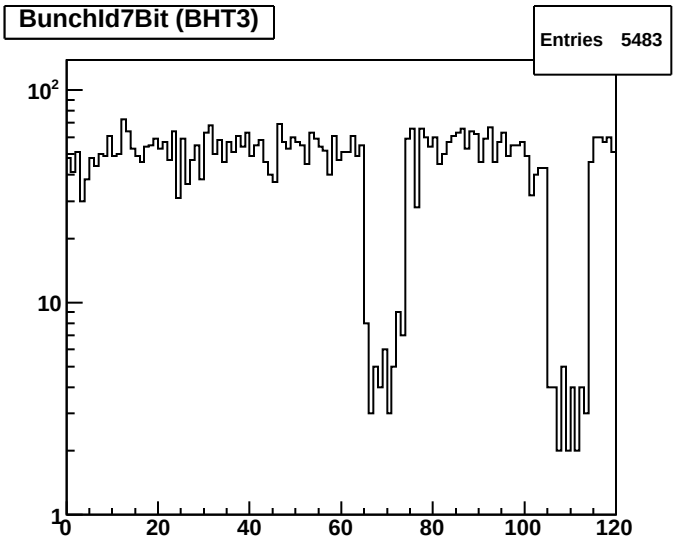

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

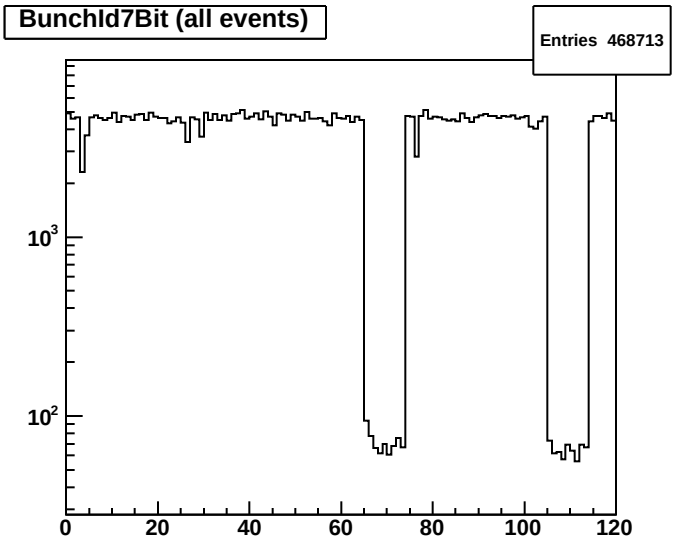

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3749704
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

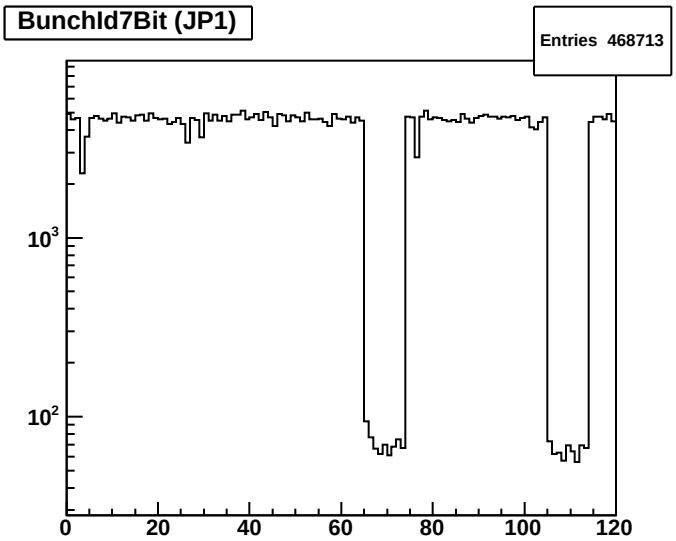

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

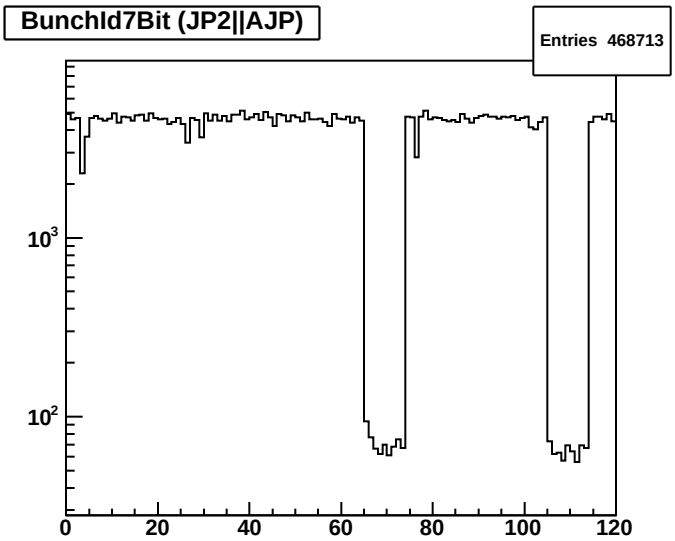

EMC L2 Input - HT23 bits
Entries 3749704
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

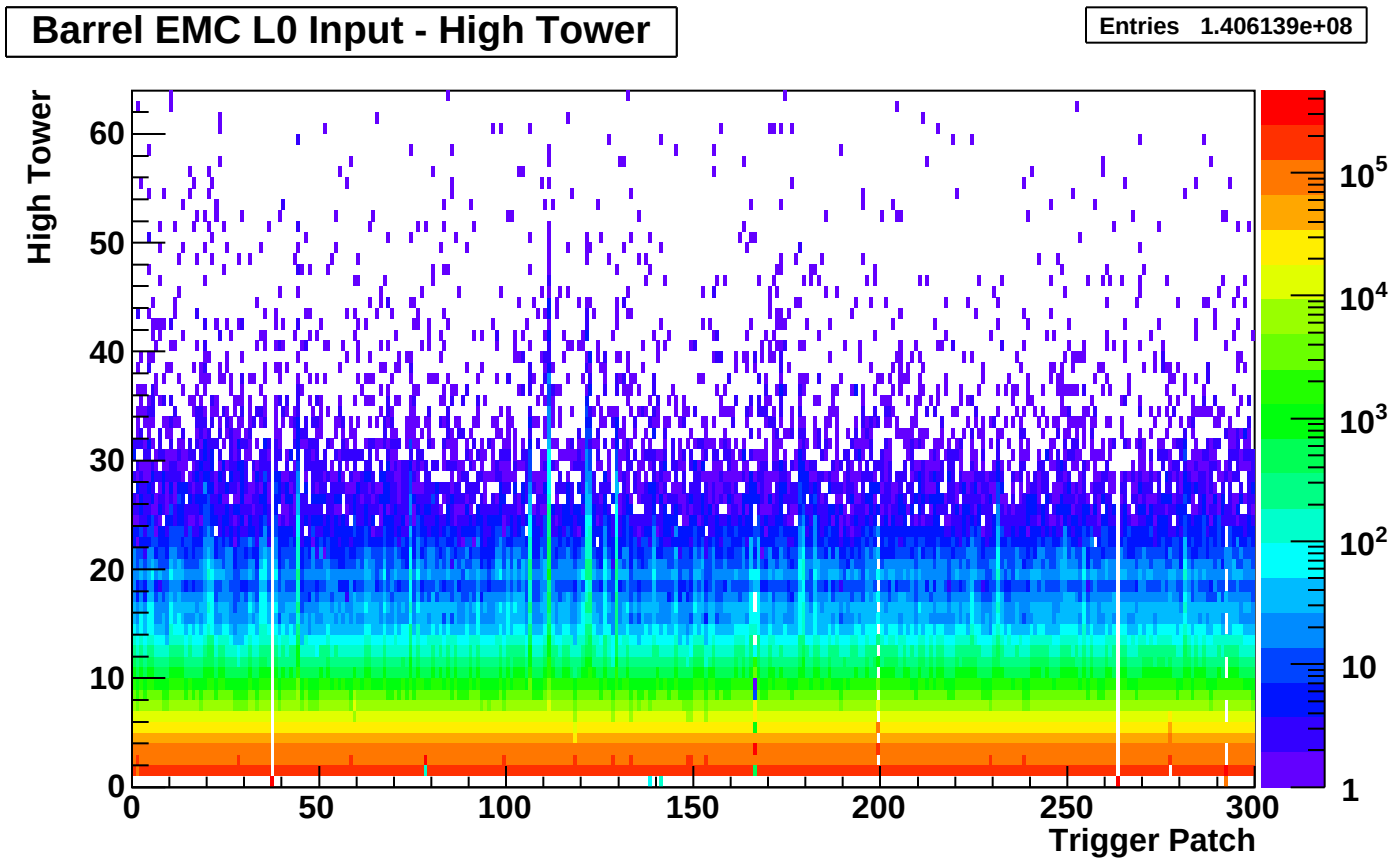

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

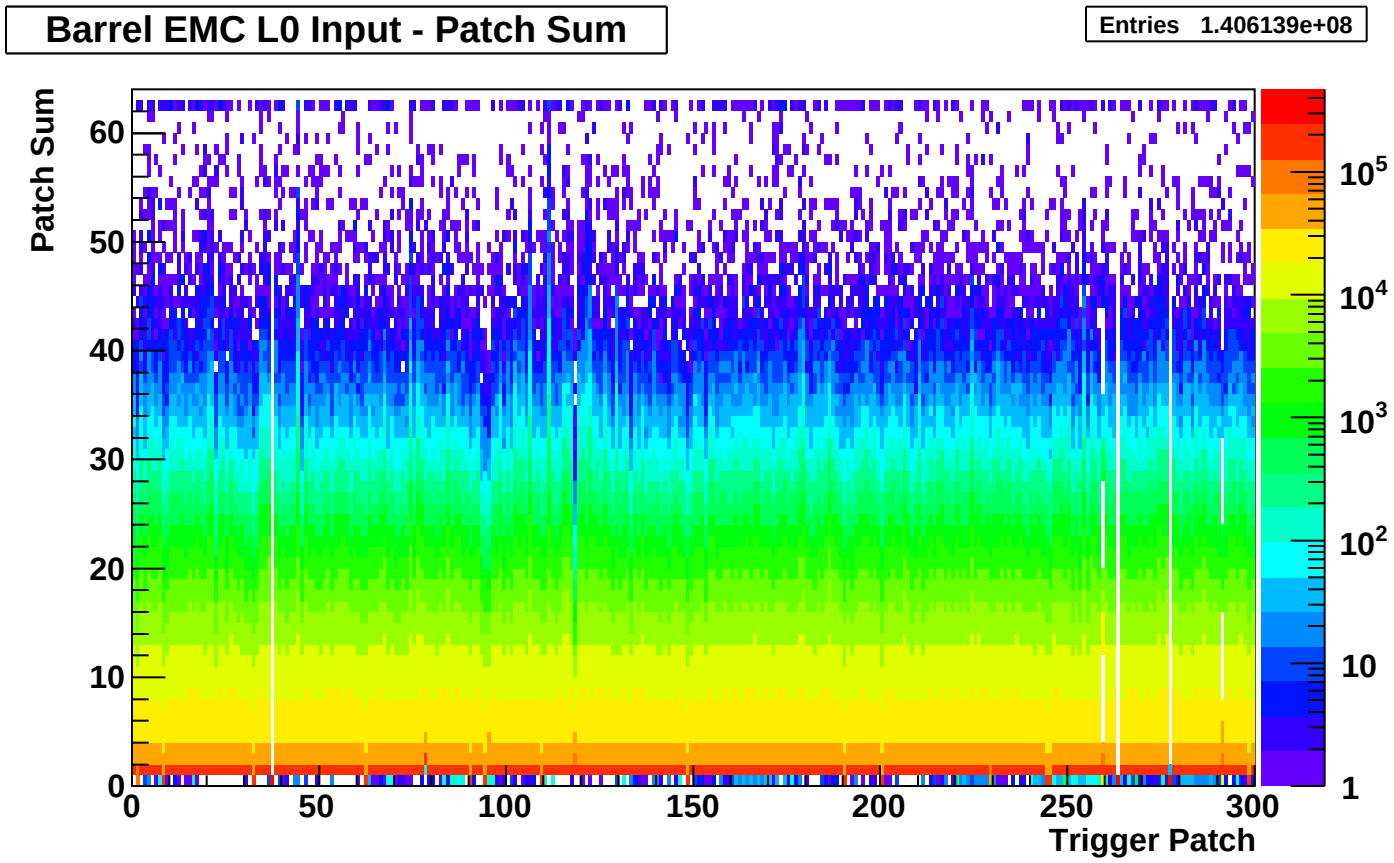

BunchId7Bit (BHT3)
Entries 5483
10^2
10
1
0
20
40
60
80
100
120

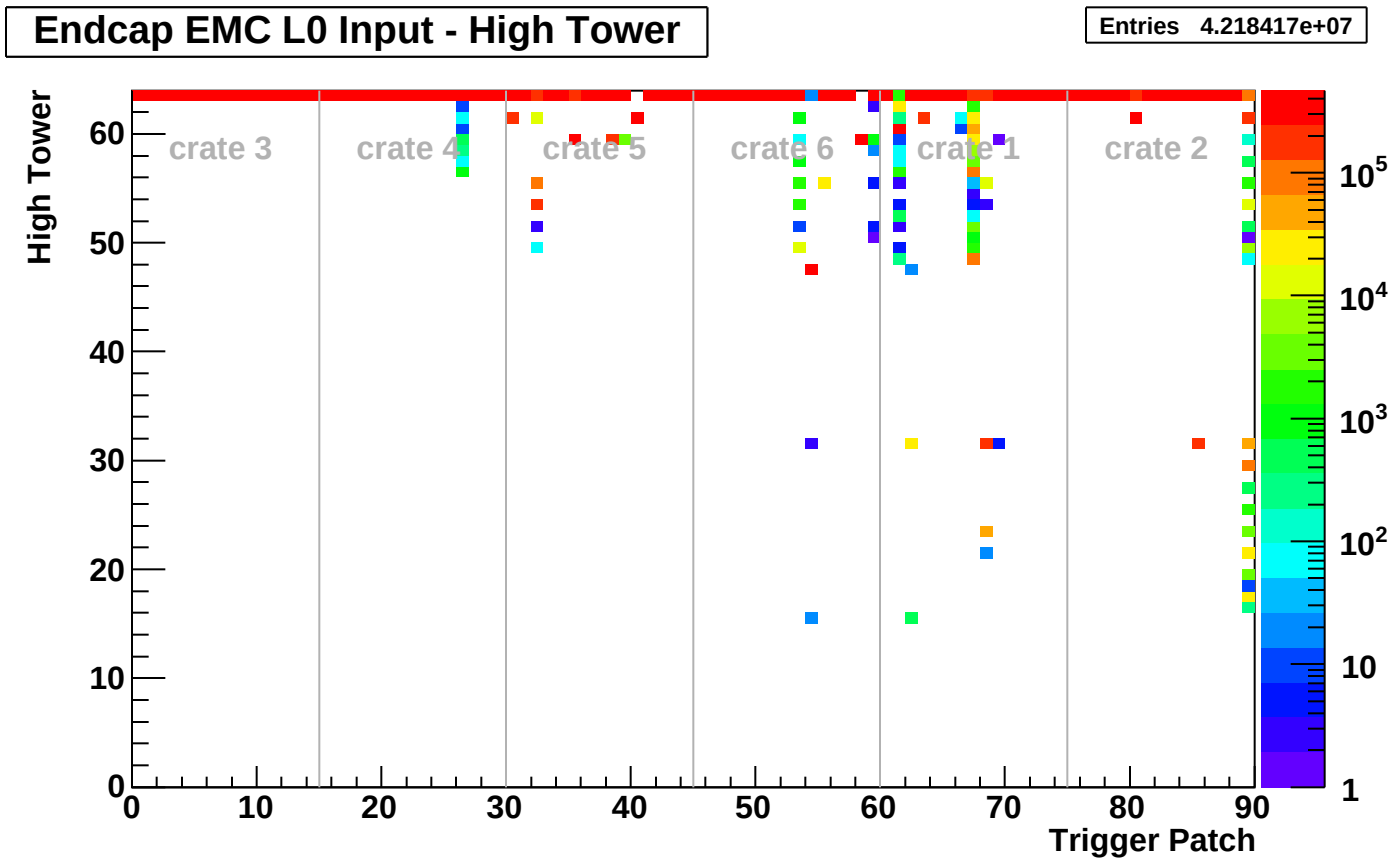

BunchId7Bit (all events)
Entries 468713
10^3
10^2
0
20
40
60
80
100
120

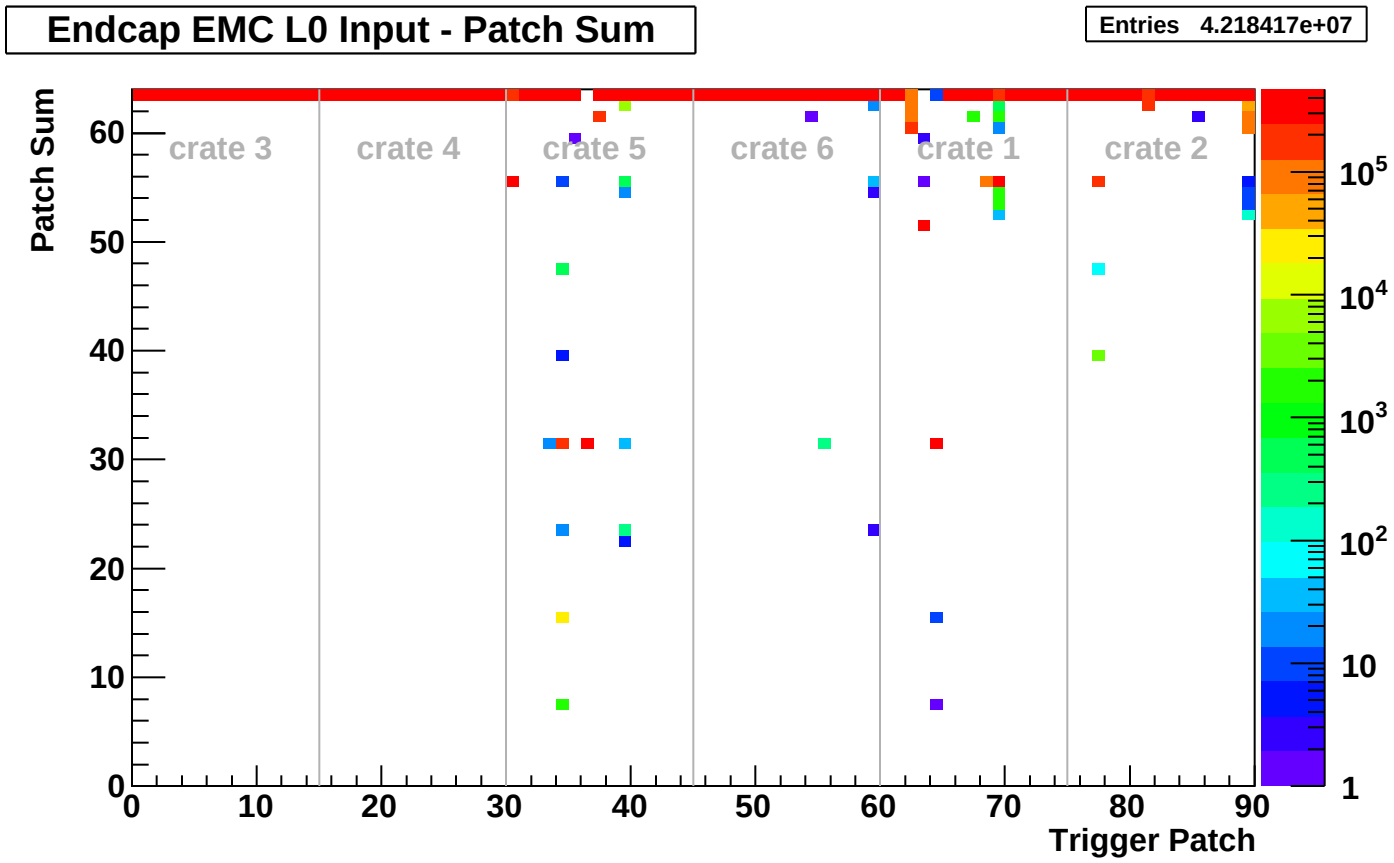

BunchId7Bit (JP1)
Entries 468713
10^3
10^2
0
20
40
60
80
100
120

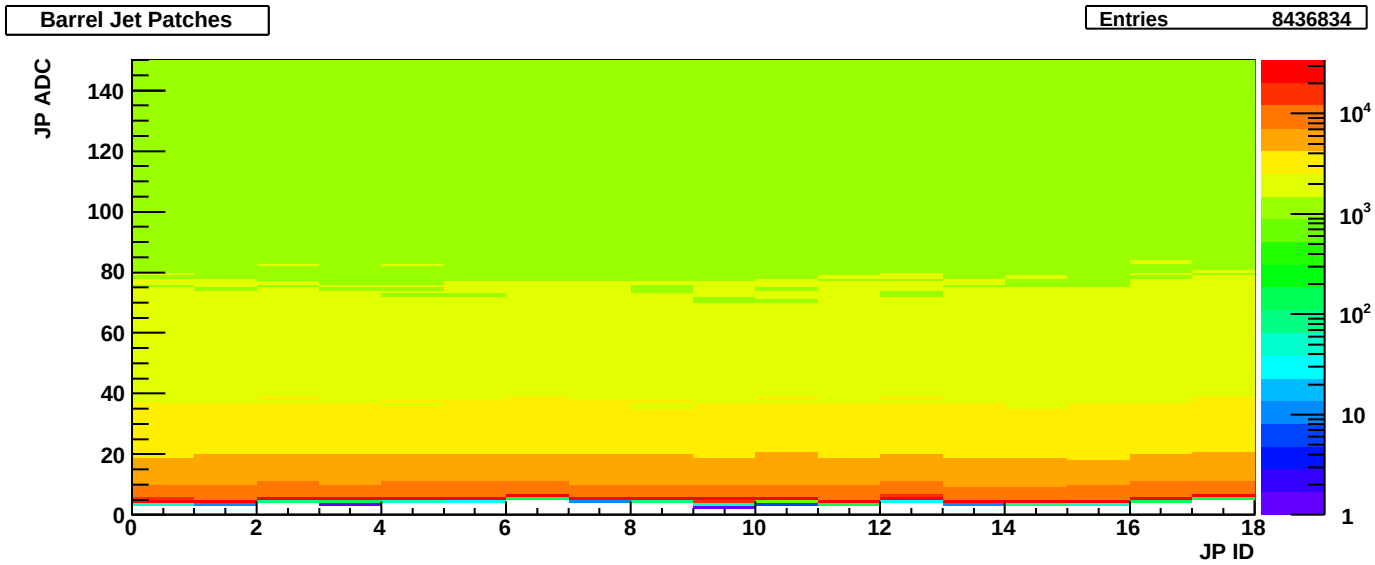

BunchId7Bit (JP2||AJP)
Entries 468713
10^3
10^2
0
20
40
60
80
100
120

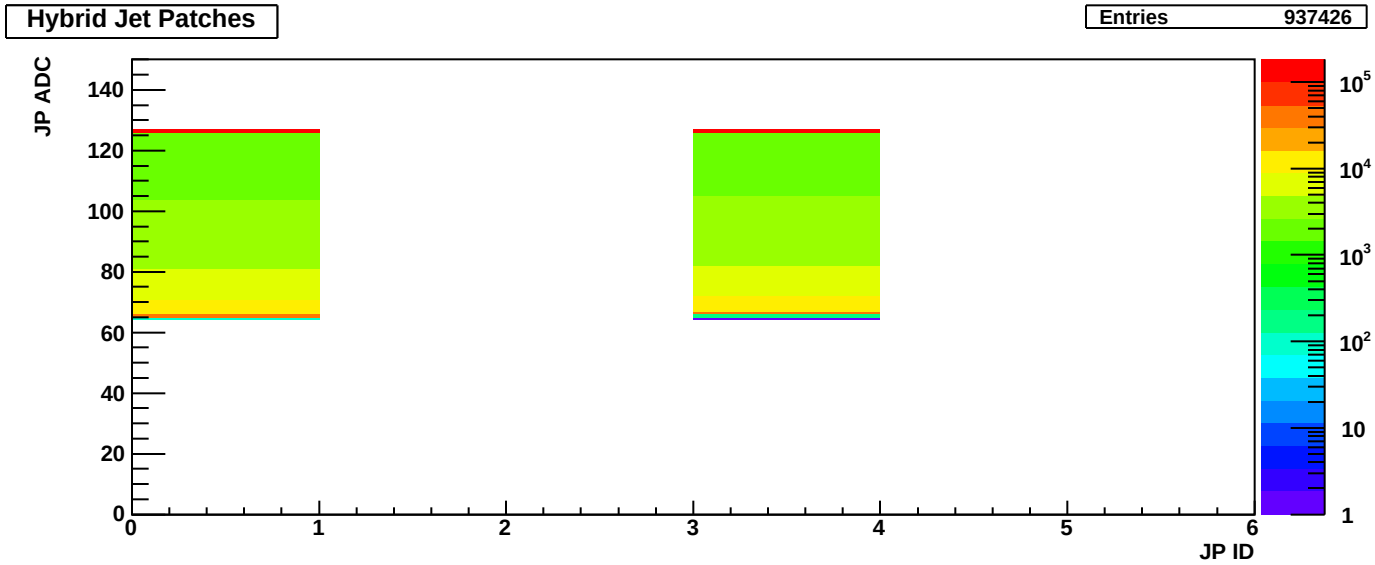

Barrel EMC L0 Input - High Tower
Entries 1.406139e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

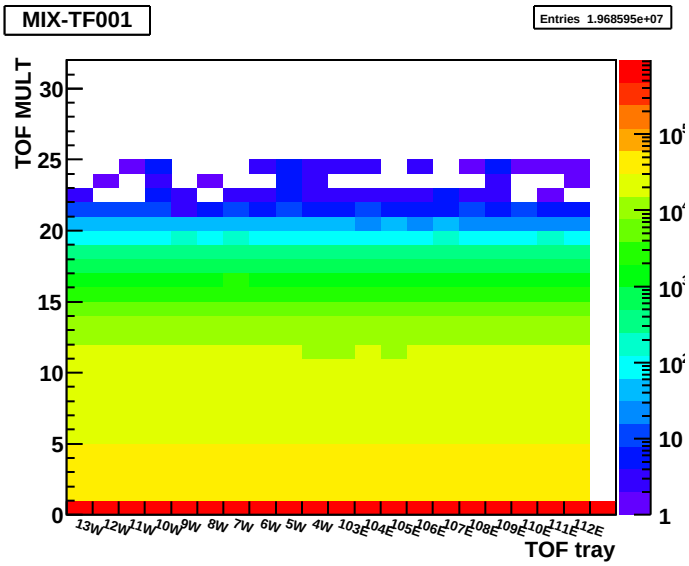

Barrel EMC L0 Input - Patch Sum
Entries 1.406139e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

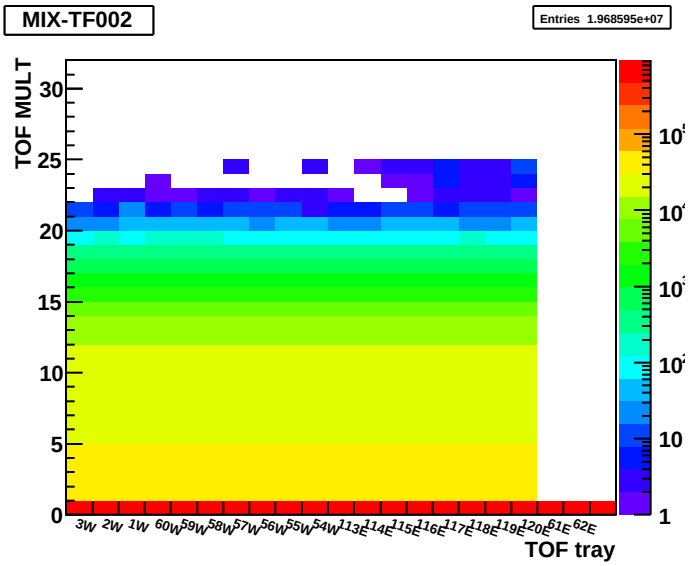

Endcap EMC L0 Input - High Tower
Entries 4.218417e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

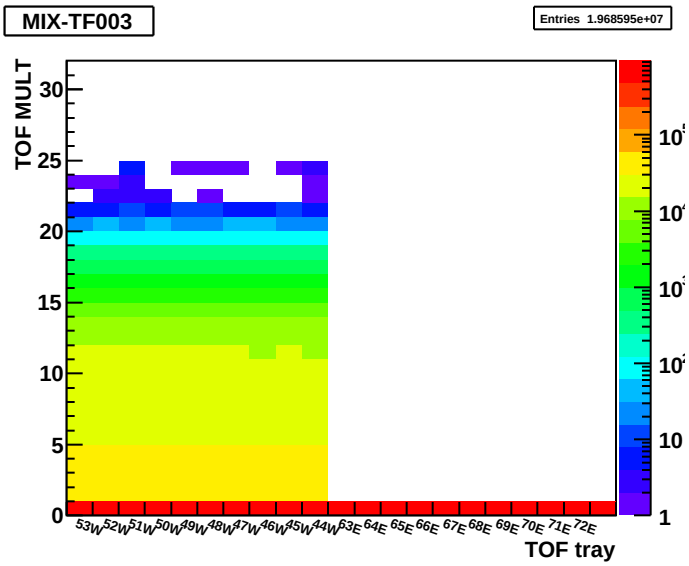

Endcap EMC L0 Input - Patch Sum
Entries 4.218417e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

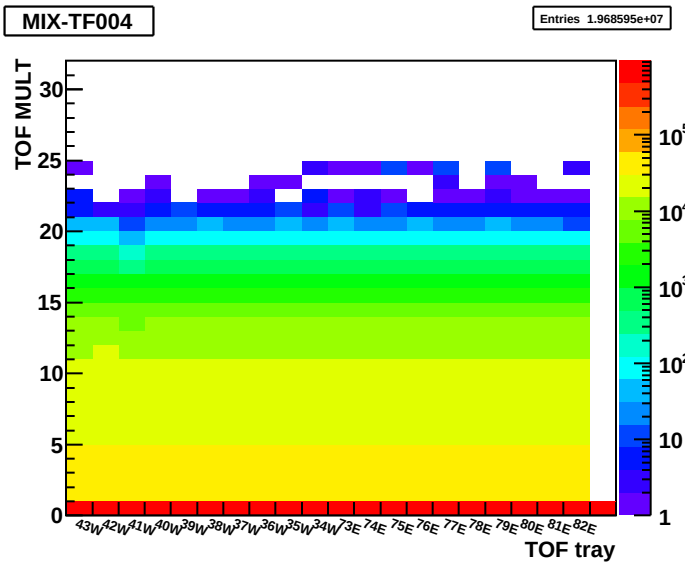

Barrel Jet Patches
Entries 8436834
JP ADC
JP ID

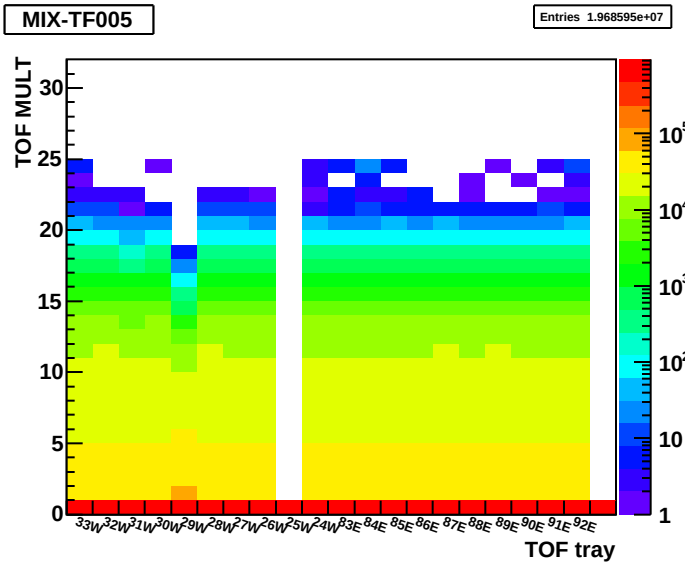

Hybrid Jet Patches
Entries 937426
JP ADC
JP ID

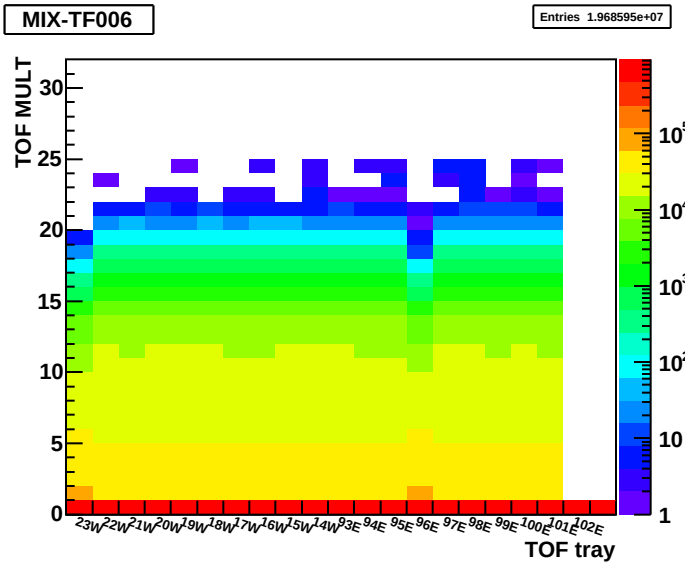

MIX-TF001
Entries 1.968595e+07
TOF MULT
TOF tray

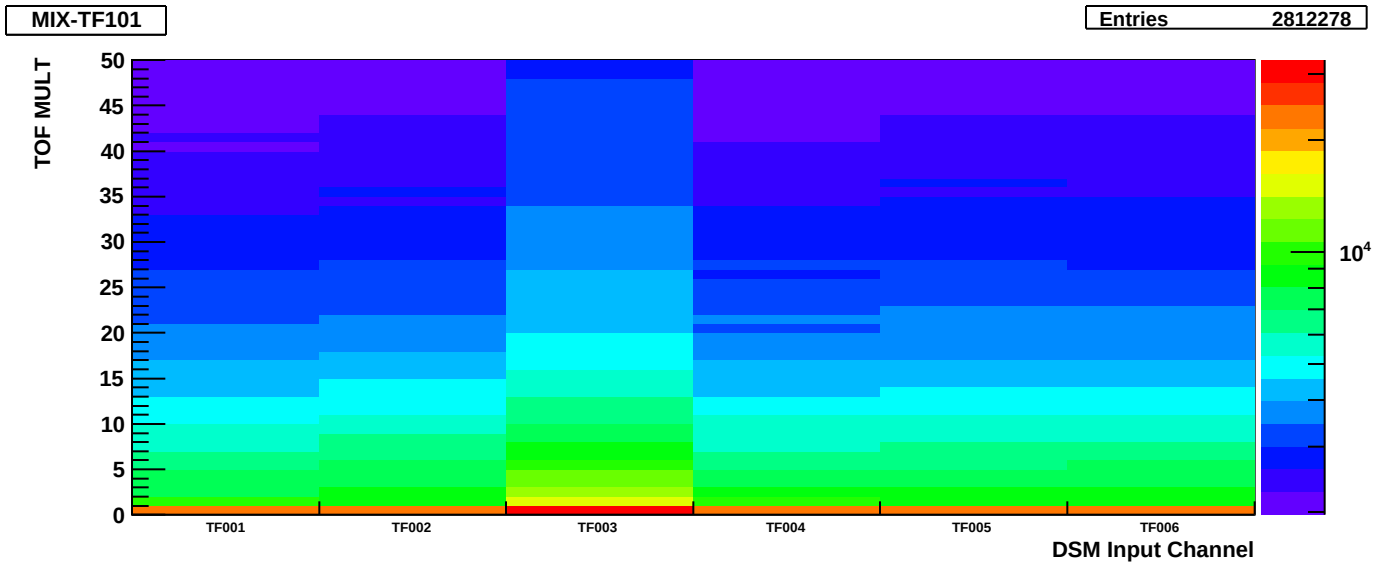

MIX-TF002
Entries 1.968595e+07
TOF MULT
TOF tray

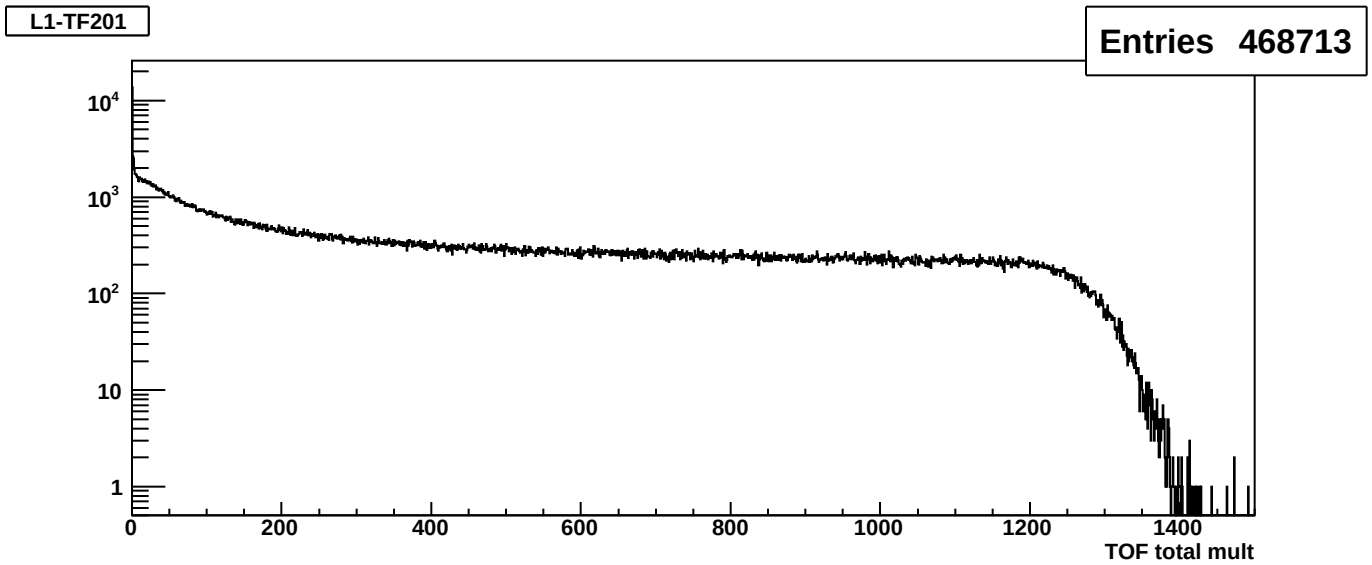

MIX-TF003
Entries 1.968595e+07
TOF MULT
TOF tray

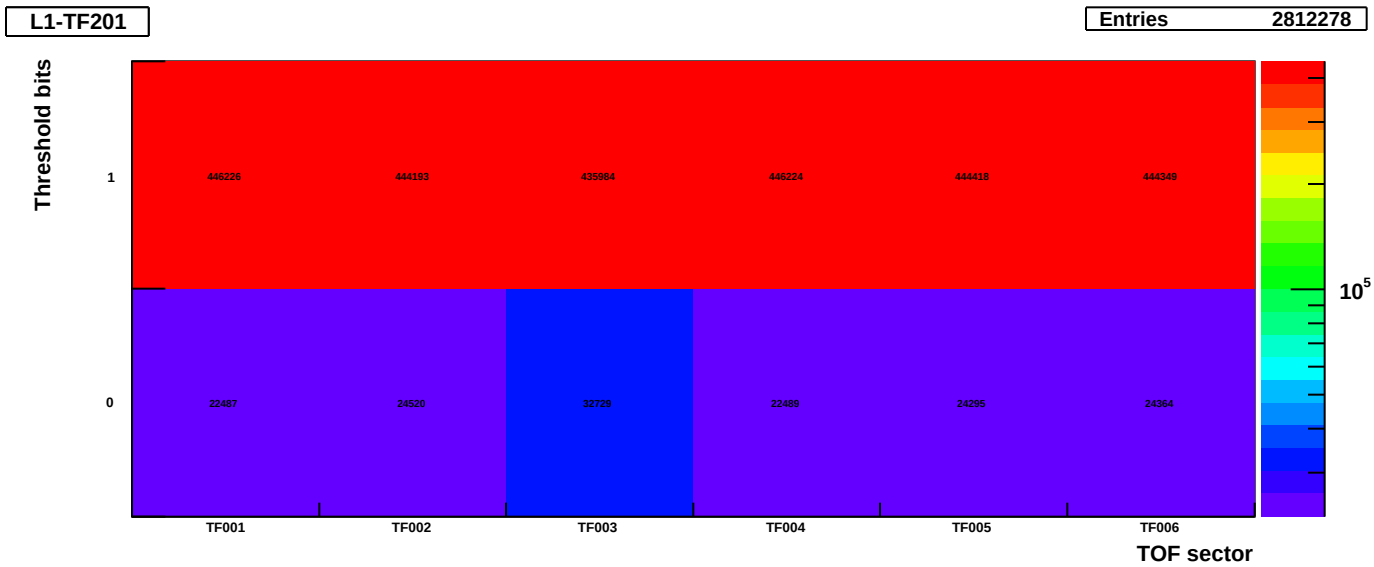

MIX-TF004
Entries 1.968595e+07
TOF MULT
TOF tray

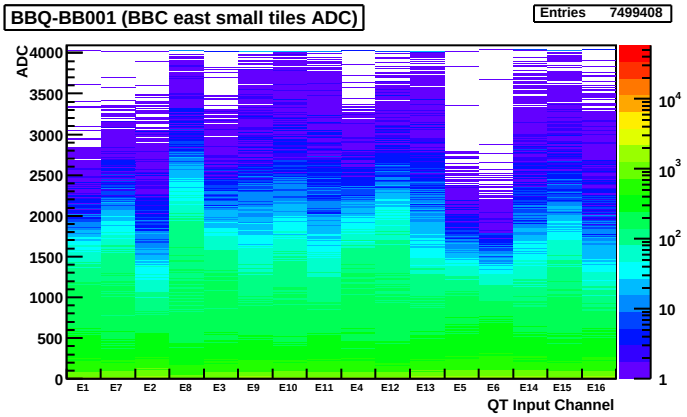

MIX-TF005
Entries 1.968595e+07
TOF MULT
TOF tray

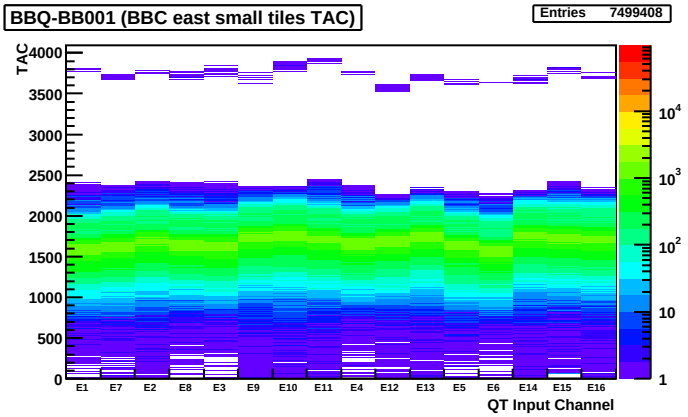

MIX-TF006
Entries 1.968595e+07
TOF MULT
TOF tray

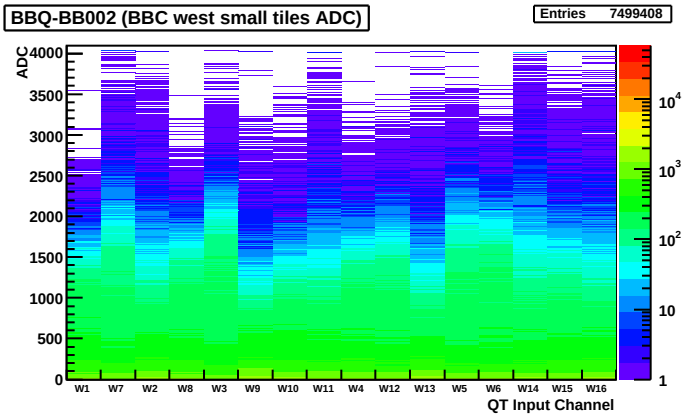

MIX-TF101
Entries 2812278
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

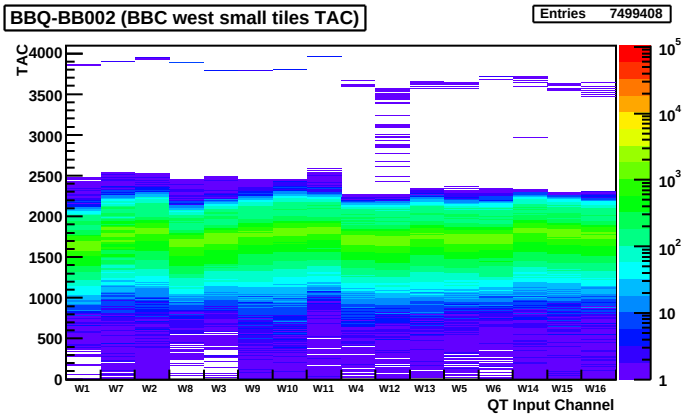

L1-TF201
Entries 468713
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

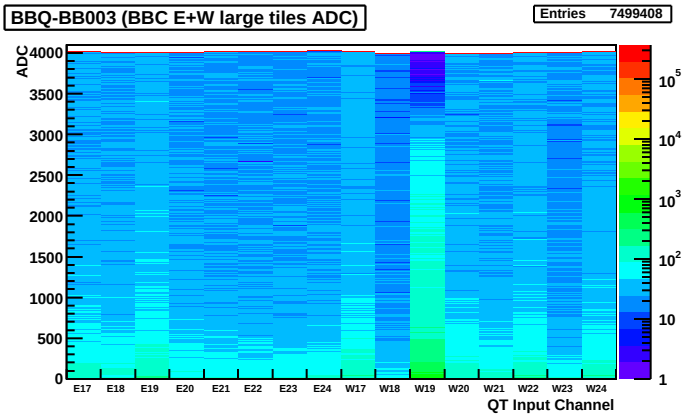

L1-TF201
Entries 2812278
Threshold bits
1
0
446226
444193
435984
446224
444418
444349
22487
24520
32729
22489
24295
24364
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

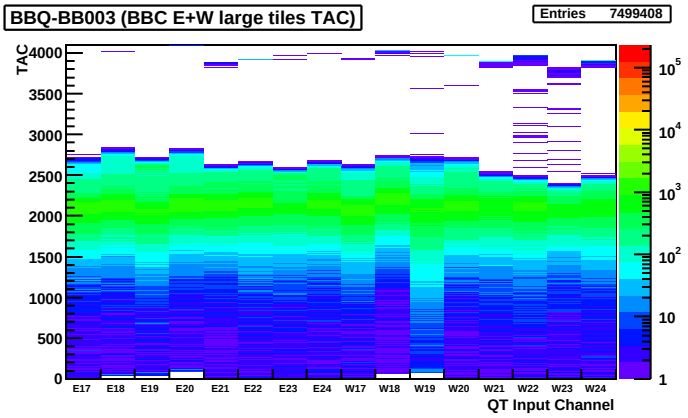

BBQ-BB001 (BBC east small tiles ADC)
Entries 7499408
ADC
QT Input Channel

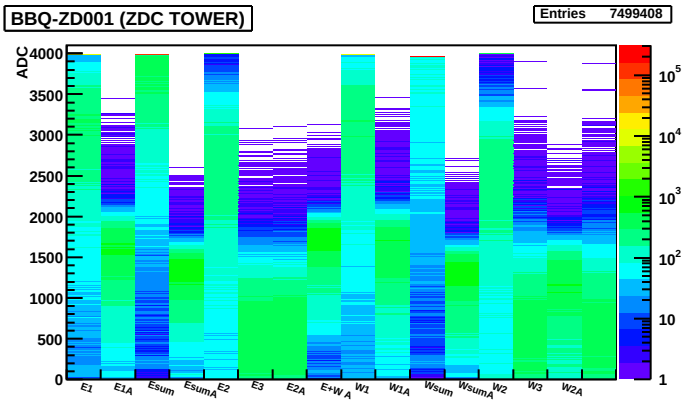

BBQ-BB001 (BBC east small tiles TAC)
Entries 7499408
TAC
QT Input Channel

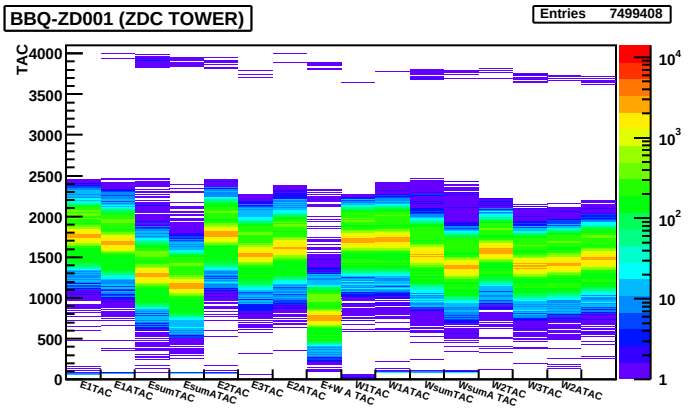

BBQ-BB002 (BBC west small tiles ADC)
Entries 7499408
ADC
QT Input Channel

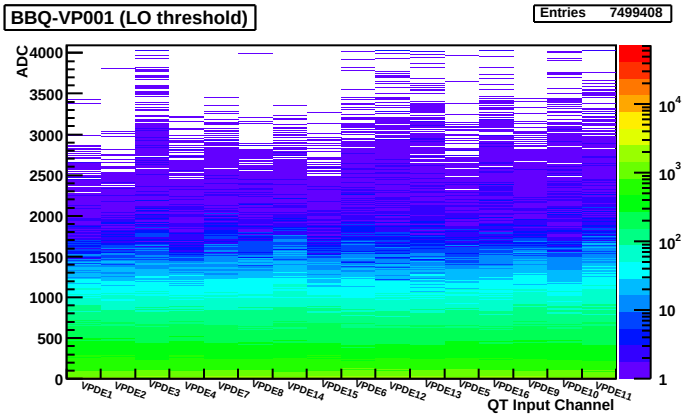

BBQ-BB002 (BBC west small tiles TAC)
Entries 7499408
TAC
QT Input Channel

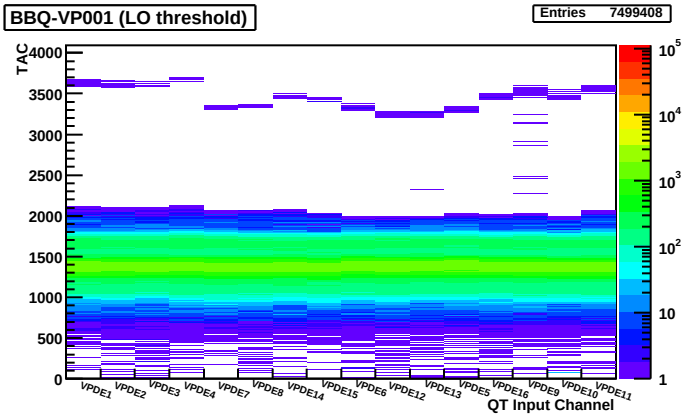

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7499408
ADC
QT Input Channel

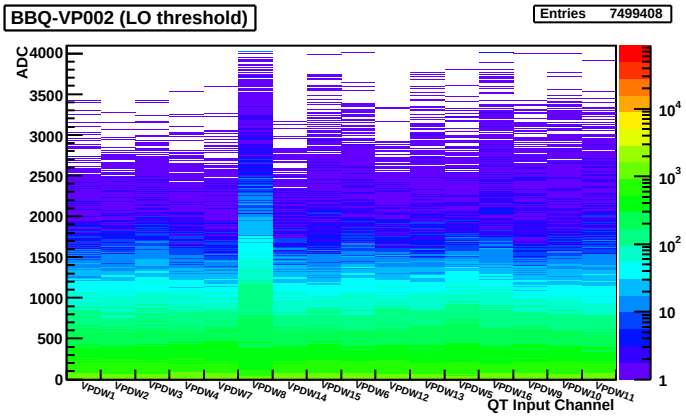

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7499408
TAC
QT Input Channel

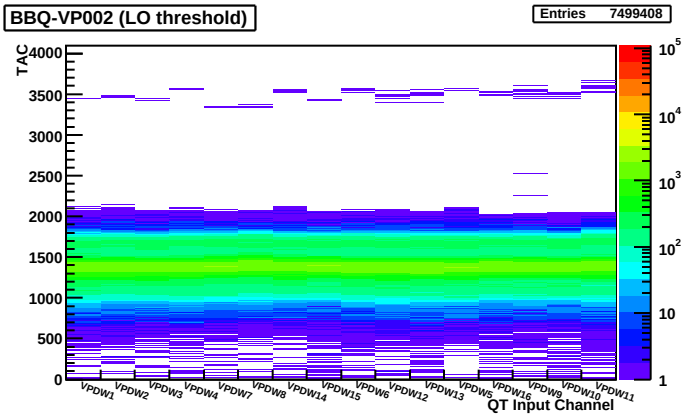

BBQ-ZD001 (ZDC TOWER)
Entries 7499408
ADC

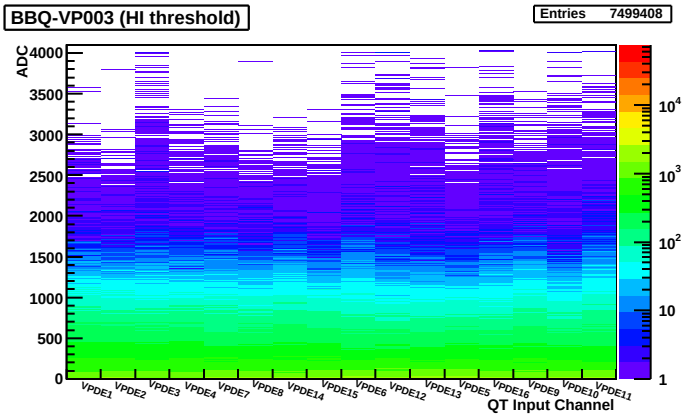

BBQ-ZD001 (ZDC TOWER)
Entries 7499408
TAC

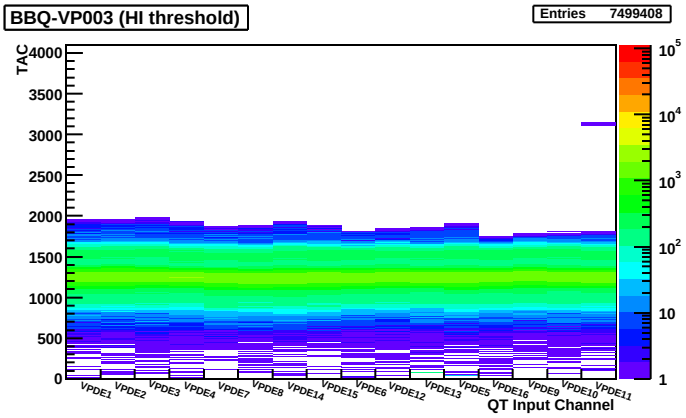

BBQ-VP001 (LO threshold)
Entries 7499408
ADC
QT Input Channel

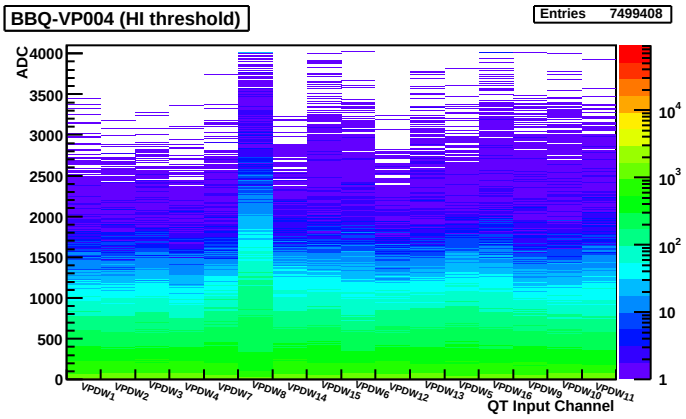

BBQ-VP001 (LO threshold)
Entries 7499408
TAC
QT Input Channel

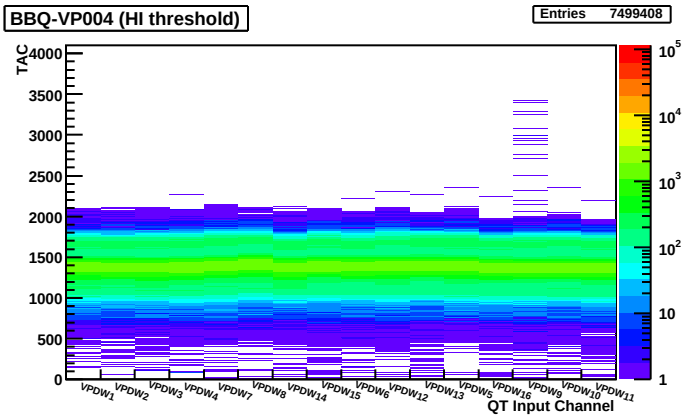

BBQ-VP002 (LO threshold)
Entries 7499408
ADC
QT Input Channel

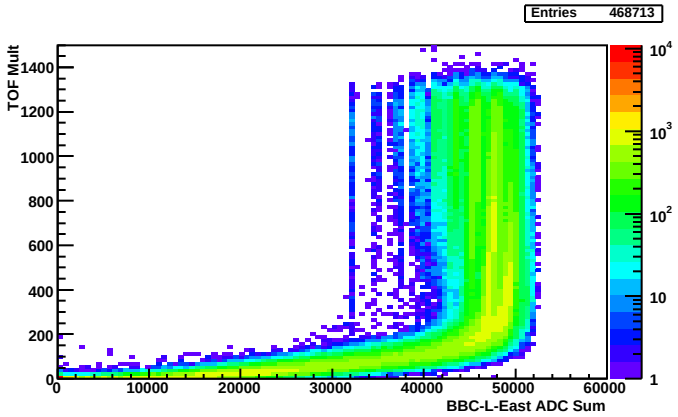

BBQ-VP002 (LO threshold)
Entries 7499408
TAC
QT Input Channel

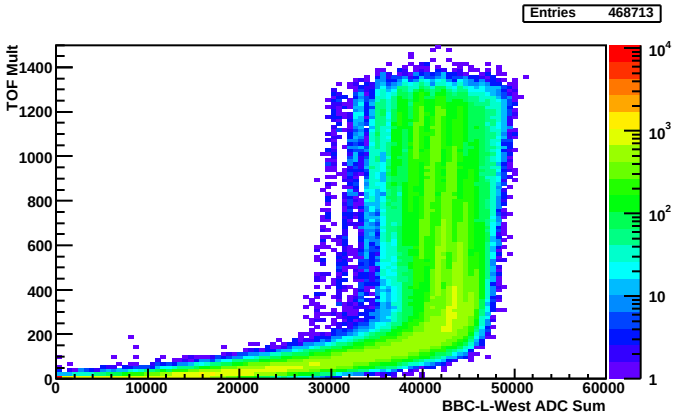

BBQ-VP003 (HI threshold)
Entries 7499408
ADC
QT Input Channel

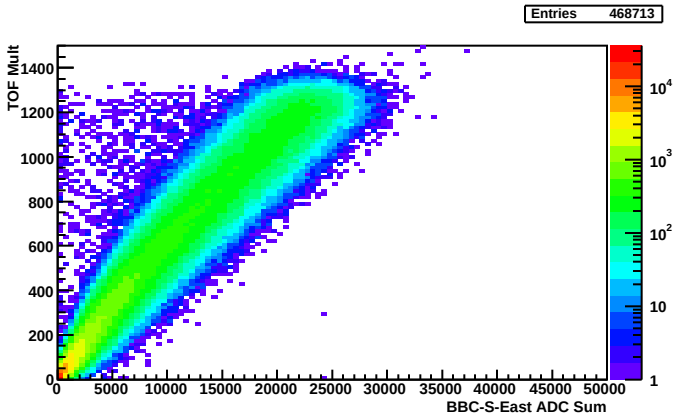

BBQ-VP003 (HI threshold)
Entries 7499408
TAC
QT Input Channel

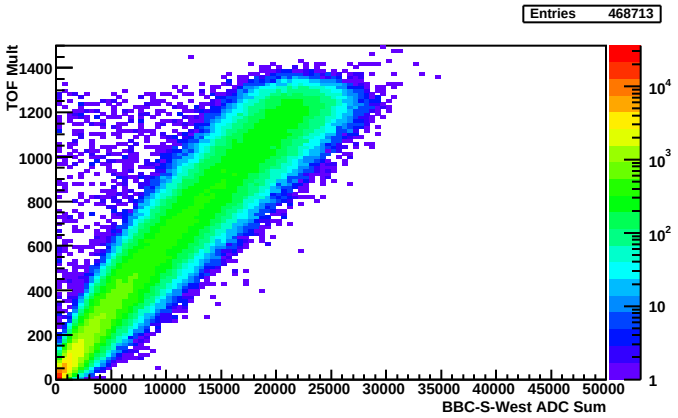

BBQ-VP004 (HI threshold)
Entries 7499408
ADC
QT Input Channel

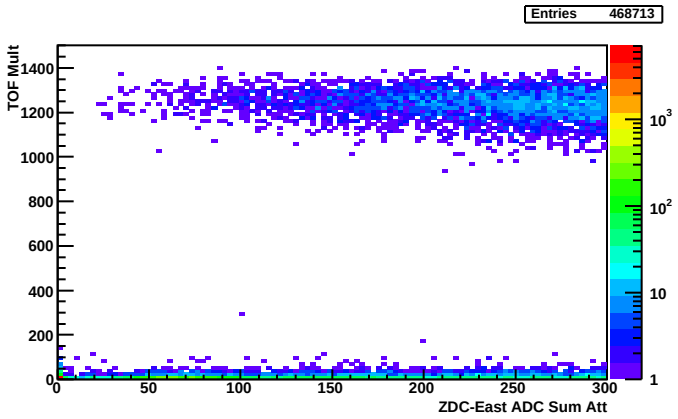

BBQ-VP004 (HI threshold)
Entries 7499408
TAC
QT Input Channel

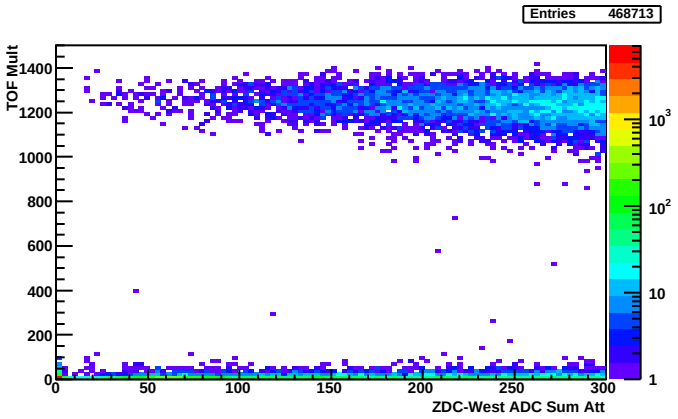

Entries 468713
TOF Mult
BBC-L-East ADC Sum

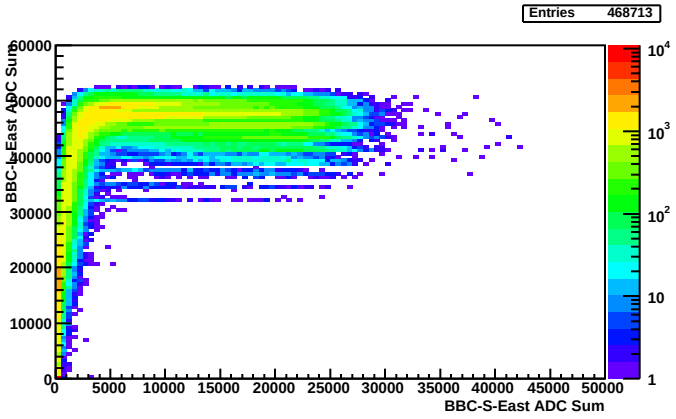

Entries 468713
TOF Mult
BBC-L-West ADC Sum

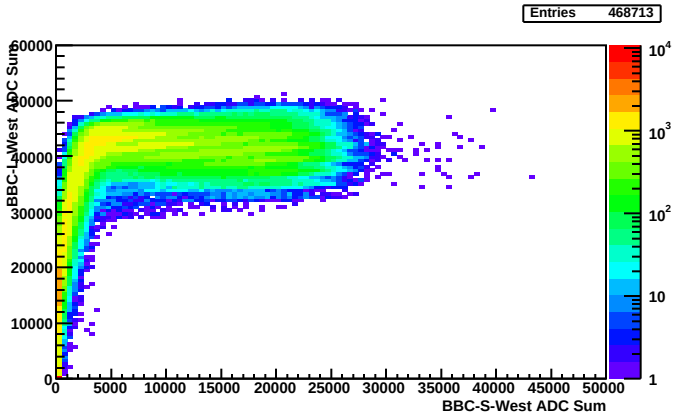

Entries 468713
TOF Mult
BBC-S-East ADC Sum

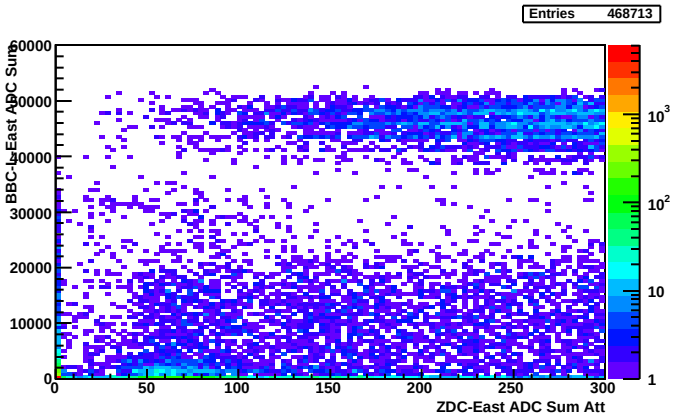

Entries 468713
TOF Mult
BBC-S-West ADC Sum

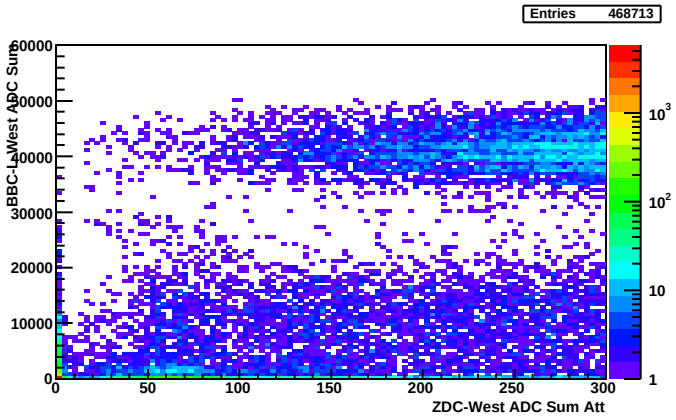

Entries 468713
TOF Mult
ZDC-East ADC Sum Att

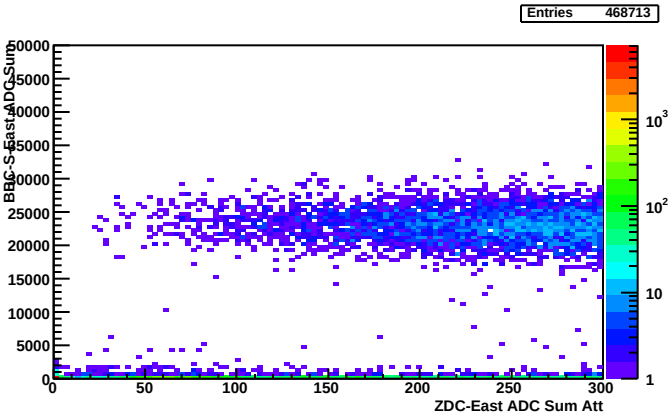

Entries 468713
TOF Mult
ZDC-West ADC Sum Att

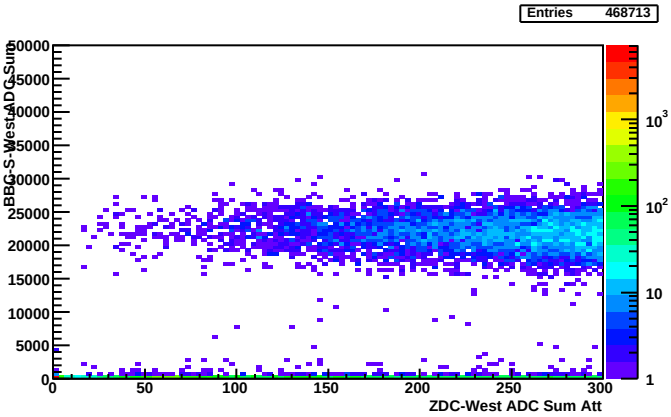

Entries 468713
BBC-L-East ADC Sum
BBC-S-East ADC Sum

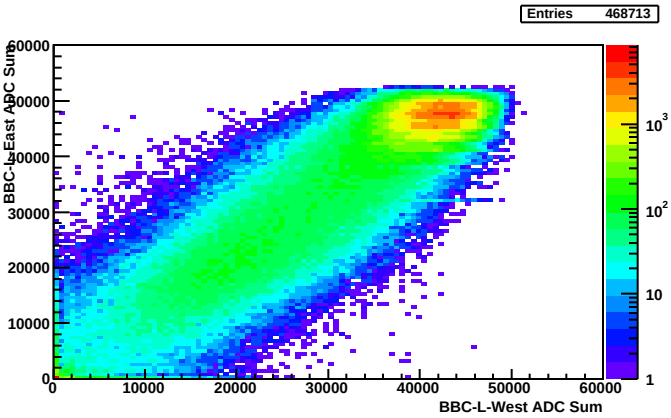

Entries 468713
BBC-L-West ADC Sum
BBC-S-West ADC Sum

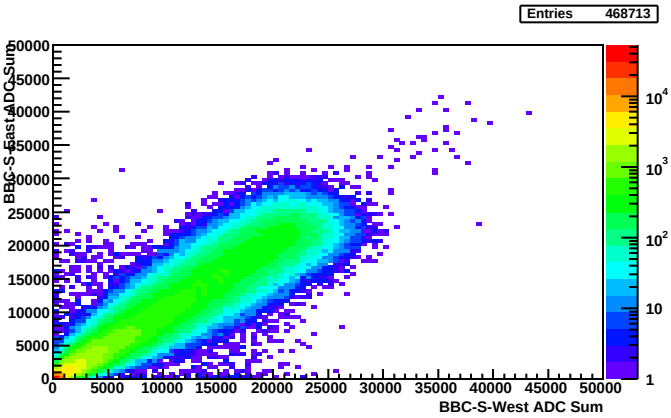

Entries 468713
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

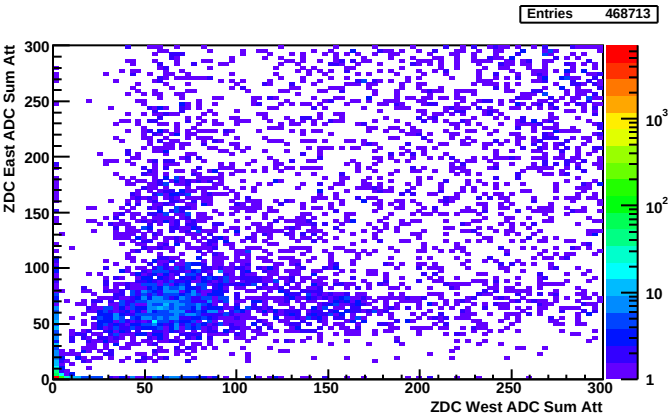

Entries 468713
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

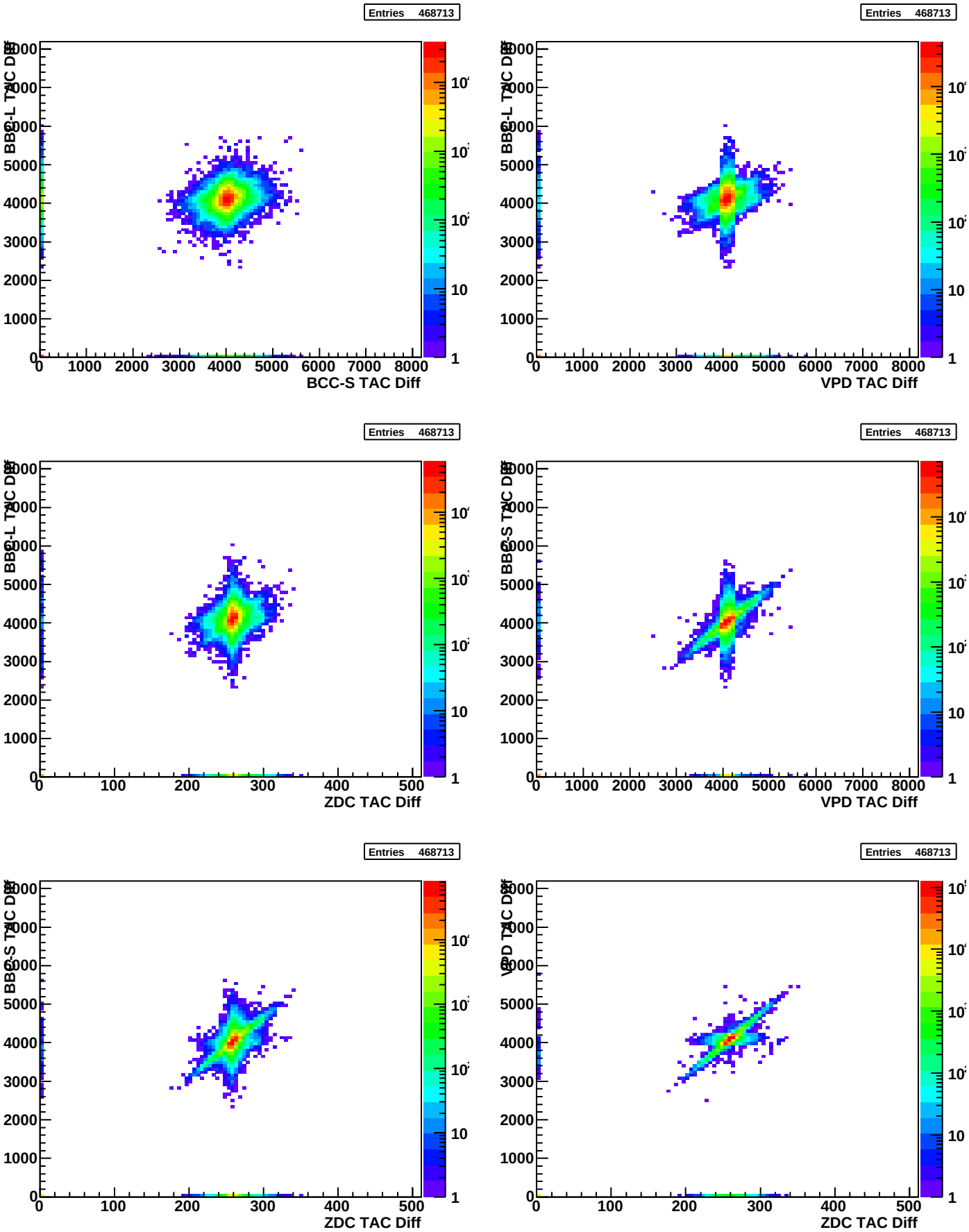

Entries 468713
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

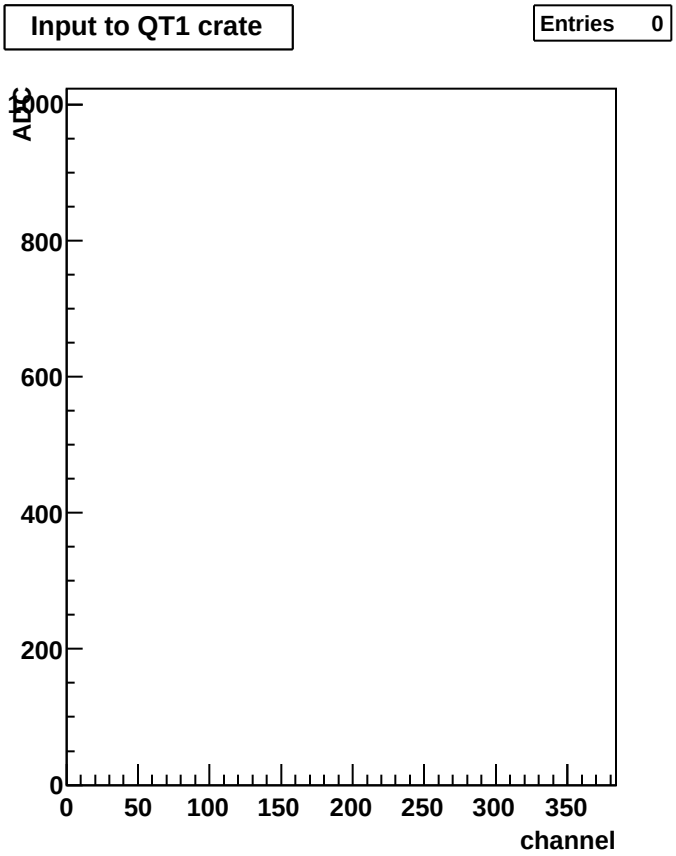

Entries 468713
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

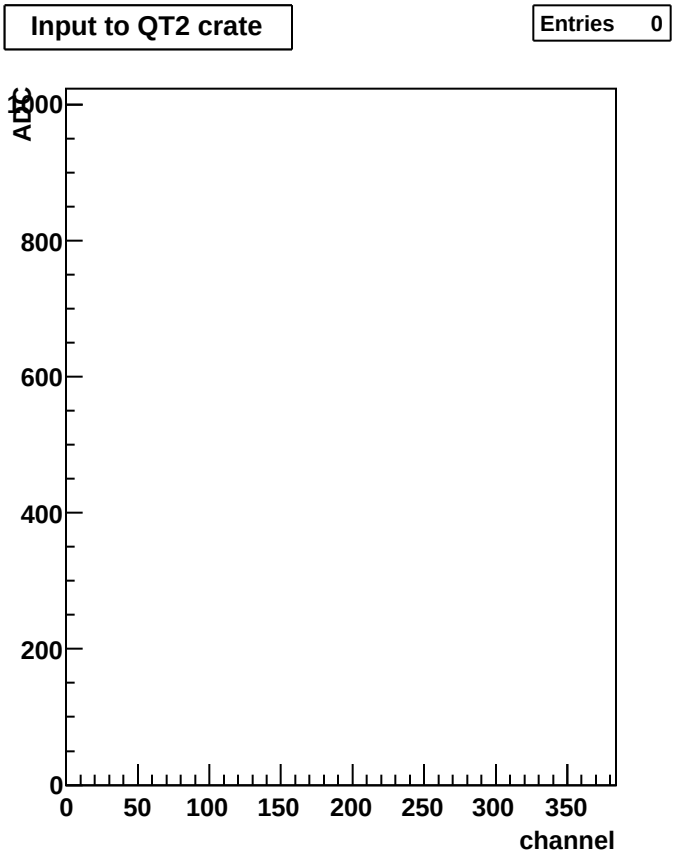

Entries 468713
BBC-L-East ADC Sum
BBC-L-West ADC Sum

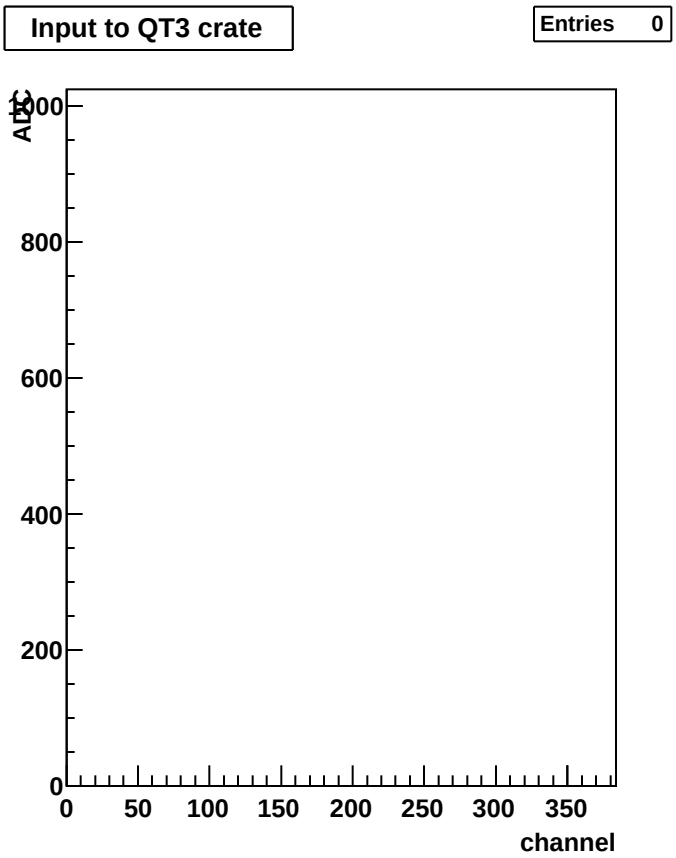

Entries 468713
BBC-S-East ADC Sum
BBC-S-West ADC Sum

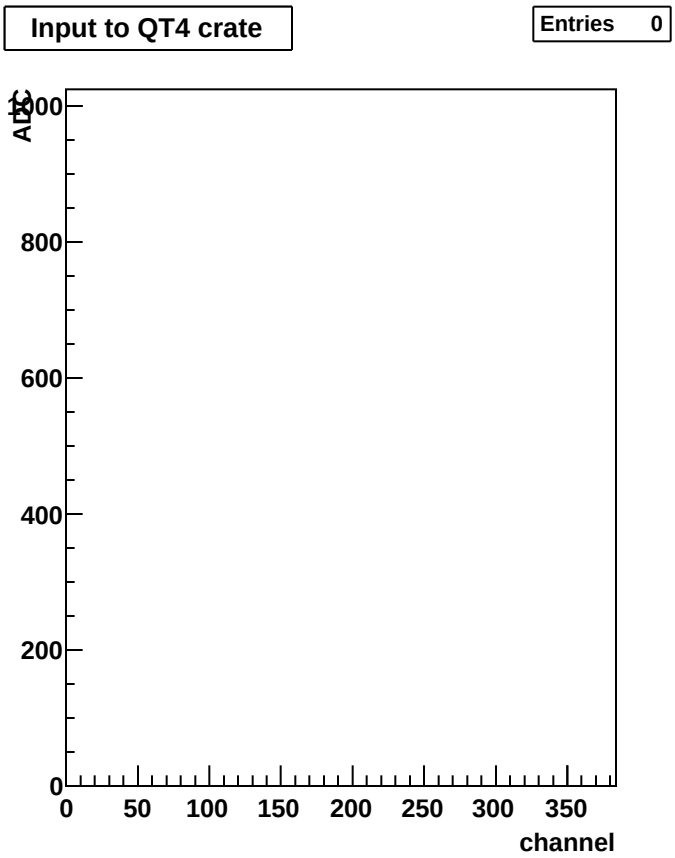

Entries 468713
ZDC East ADC Sum Att
ZDC West ADC Sum Att

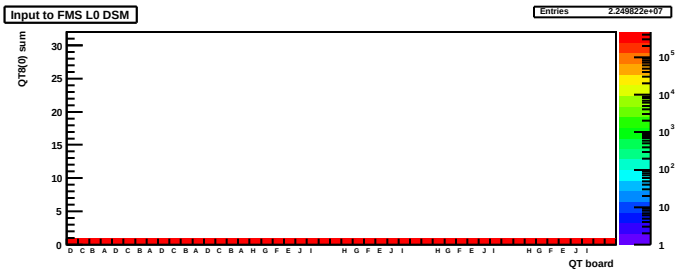

Entries 468713
BBC-L TAC Diff
BCC-S TAC Diff
Entries 468713
BBC-L TAC Diff
VPD TAC Diff
Entries 468713
BBC-L TAC Diff
ZDC TAC Diff
Entries 468713
BBC-S TAC Diff
VPD TAC Diff
Entries 468713
BBC-S TAC Diff
ZDC TAC Diff
Entries 468713
VPD TAC Diff
ZDC TAC Diff

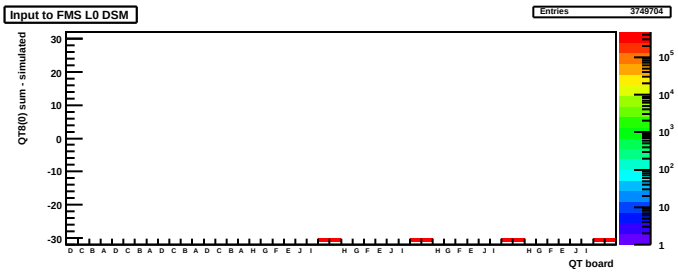

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

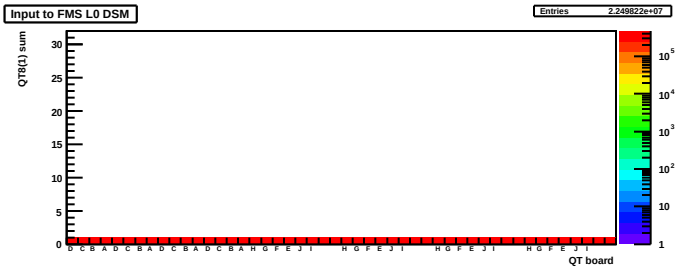

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

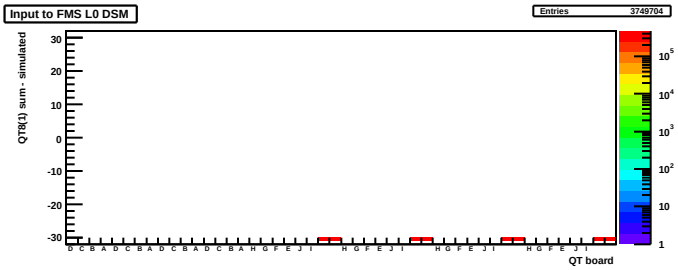

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

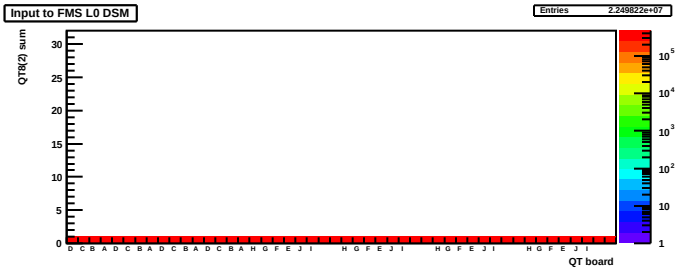

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

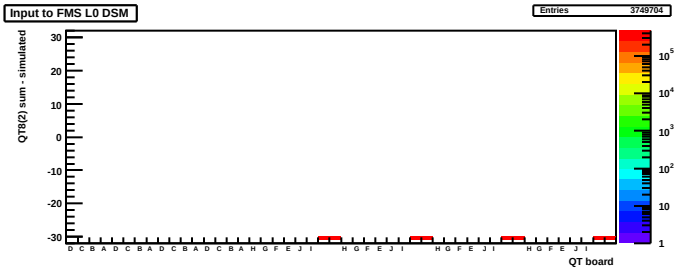

Input to FMS L0 DSM
Entries 2.249822e+07
QT8(0) sum
QT board

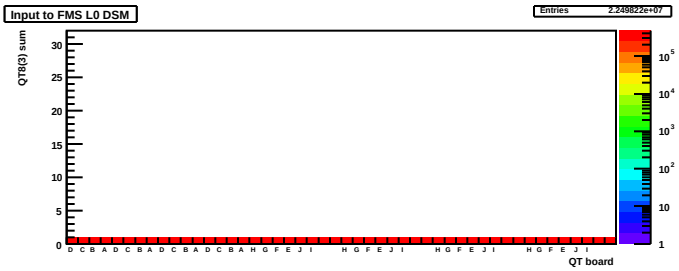

Input to FMS L0 DSM
Entries 3749704
QT8(0) sum - simulated
QT board

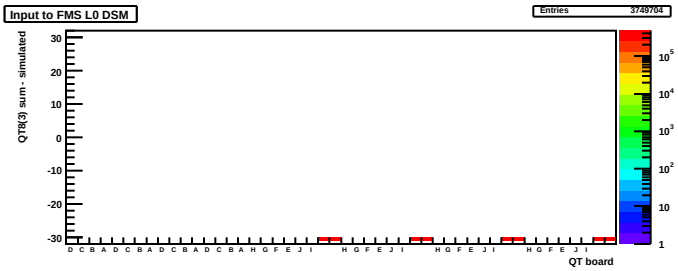

Input to FMS L0 DSM
Entries 2.249822e+07
QT8(1) sum
QT board

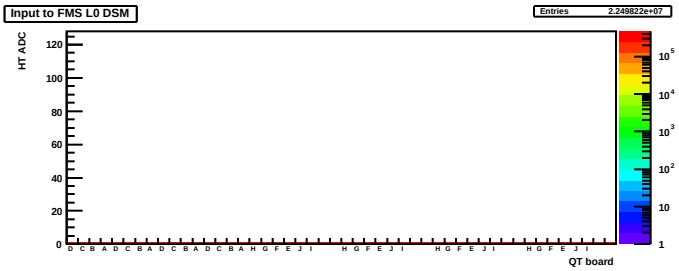

Input to FMS L0 DSM
Entries 3749704
QT8(1) sum - simulated
QT board

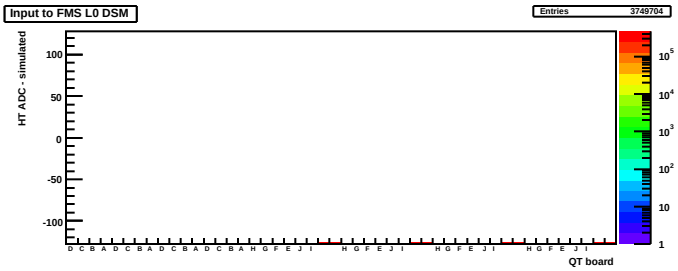

Input to FMS L0 DSM
Entries 2.249822e+07
QT8(2) sum
QT board

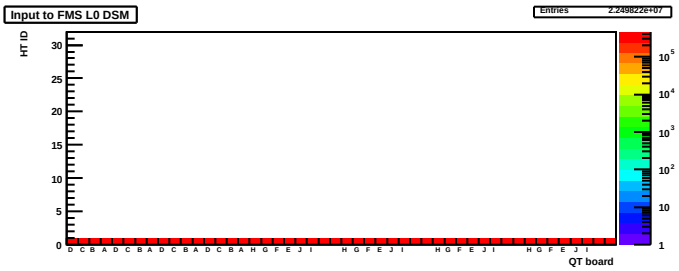

Input to FMS L0 DSM
Entries 3749704
QT8(2) sum - simulated
QT board

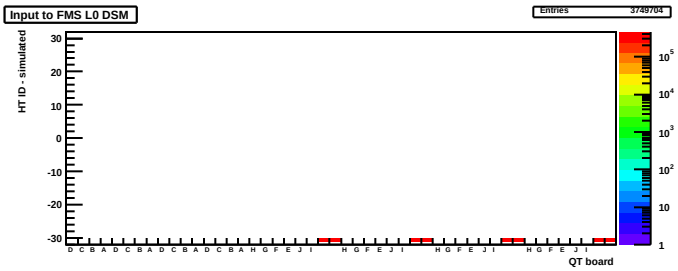

Input to FMS L0 DSM
Entries 2.249822e+07
QT8(3) sum
QT board

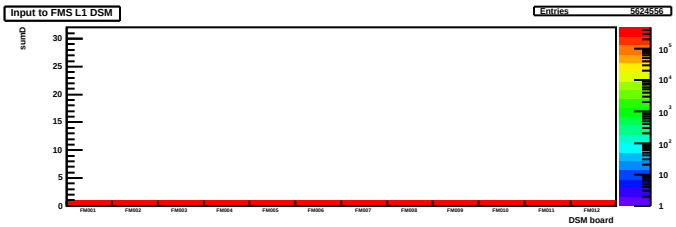

Input to FMS L0 DSM
Entries 3749704
QT8(3) sum - simulated
QT board

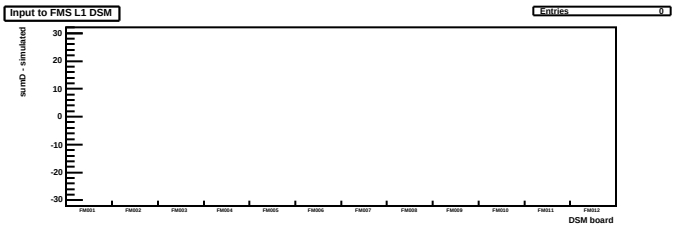

Input to FMS L0 DSM
Entries 2.249822e+07
HT ADC
QT board

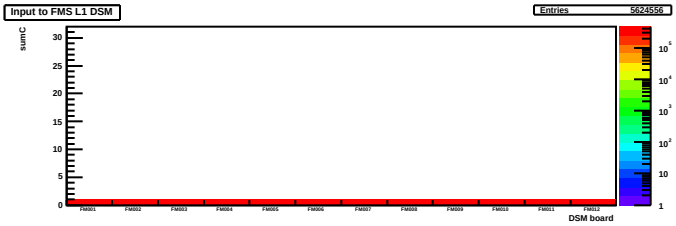

Input to FMS L0 DSM
Entries 3749704
HT ADC - simulated
QT board

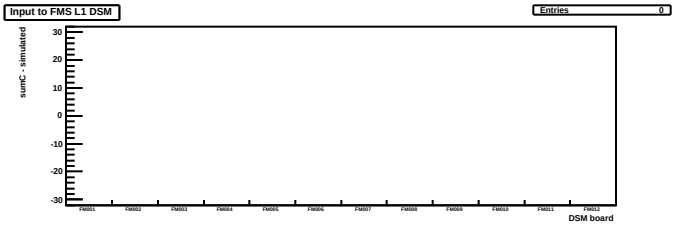

Input to FMS L0 DSM
Entries 2.249822e+07
HT ID
QT board

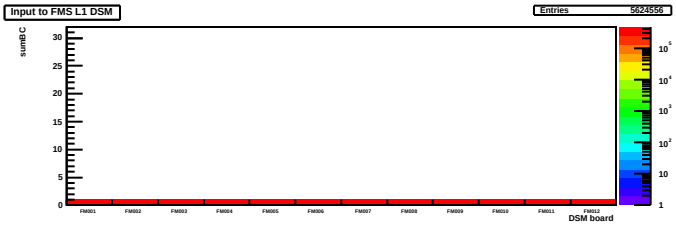

Input to FMS L0 DSM
Entries 3749704
HT ID - simulated
QT board

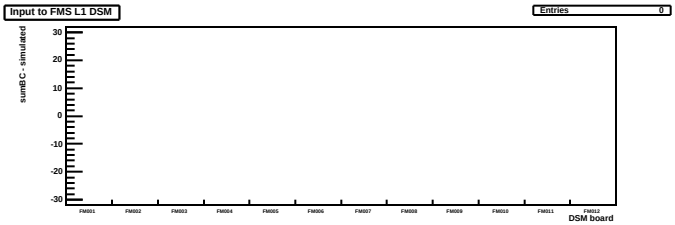

Input to FMS L1 DSM
Entries 5624556
sumD
DSM board

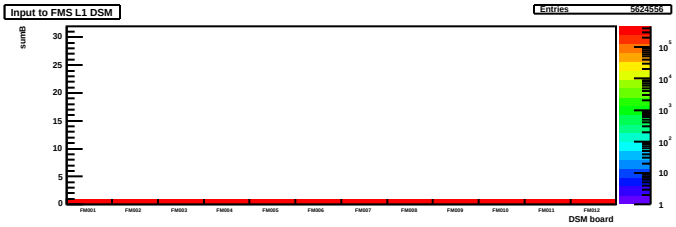

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

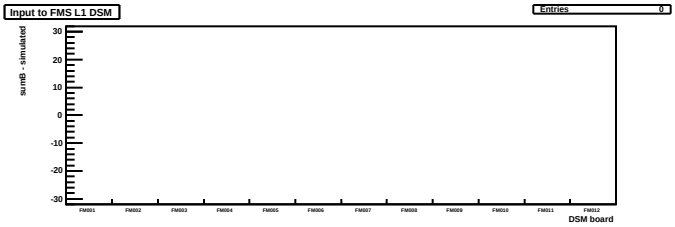

Input to FMS L1 DSM
Entries 5624556
sumC
DSM board

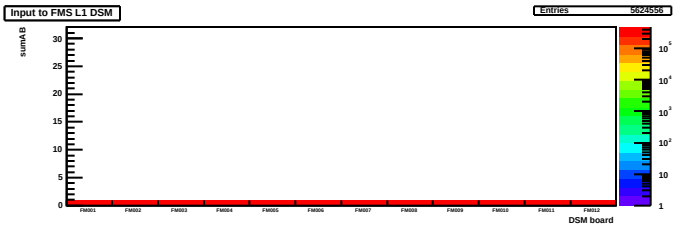

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

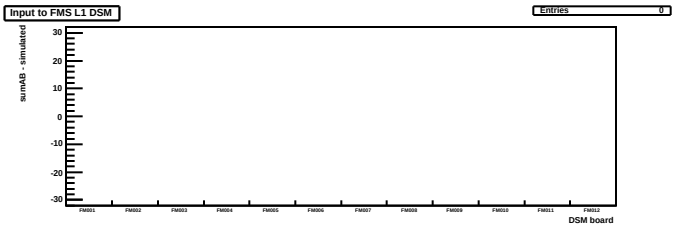

Input to FMS L1 DSM
Entries 5624556
sumBC
DSM board

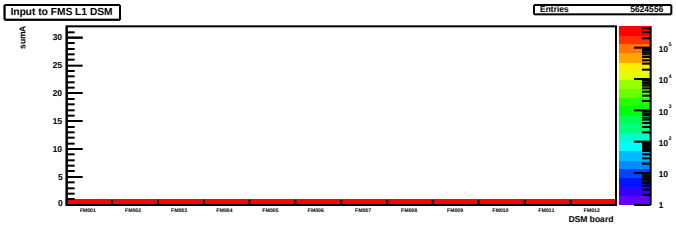

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

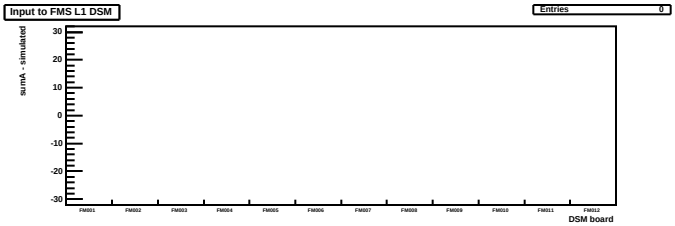

Input to FMS L1 DSM
Entries 5624556
sumB
DSM board

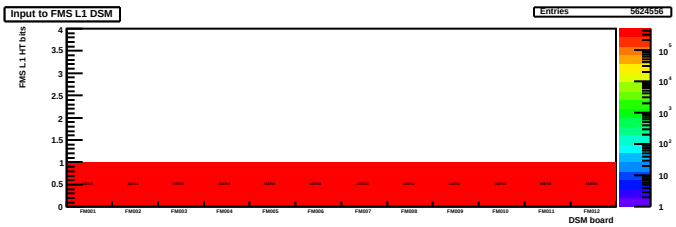

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

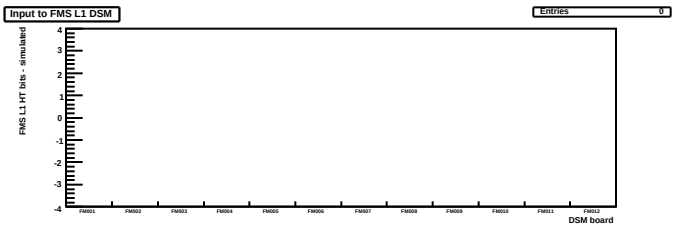

Input to FMS L1 DSM
Entries 5624556
sumAB
DSM board

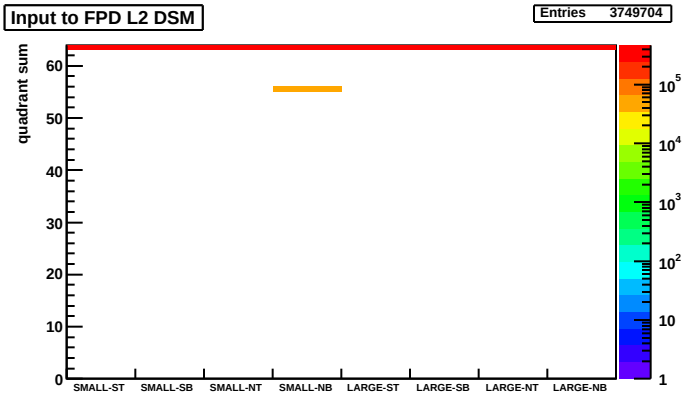

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

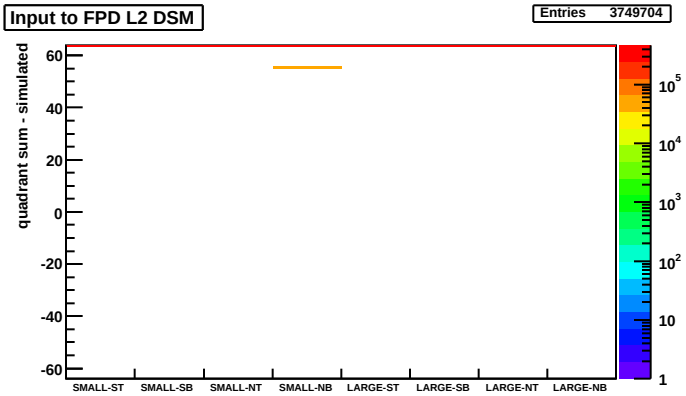

Input to FMS L1 DSM
Entries 5624556
sumA
DSM board

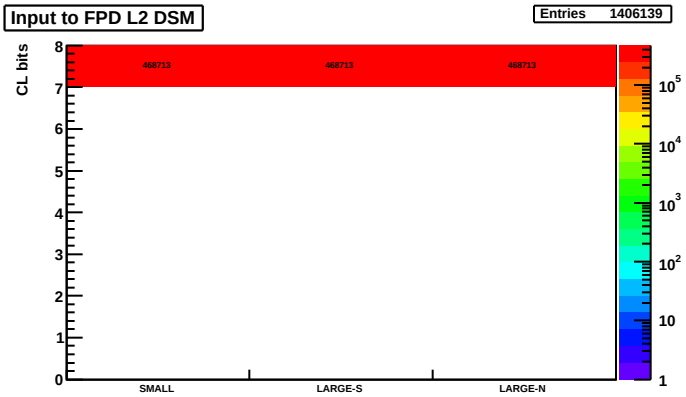

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

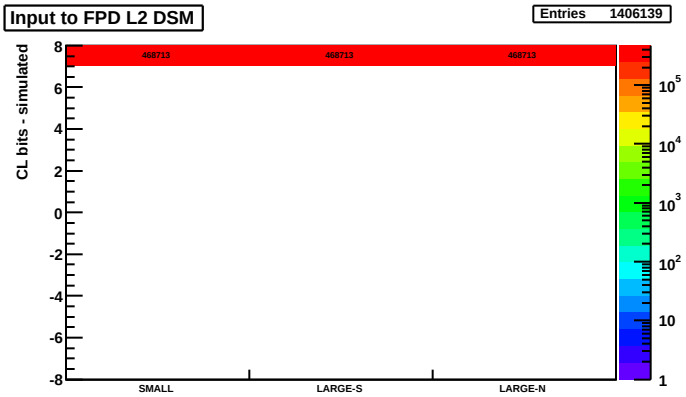

Input to FMS L1 DSM
Entries 5624556
FMS L1 HT bits
DSM board

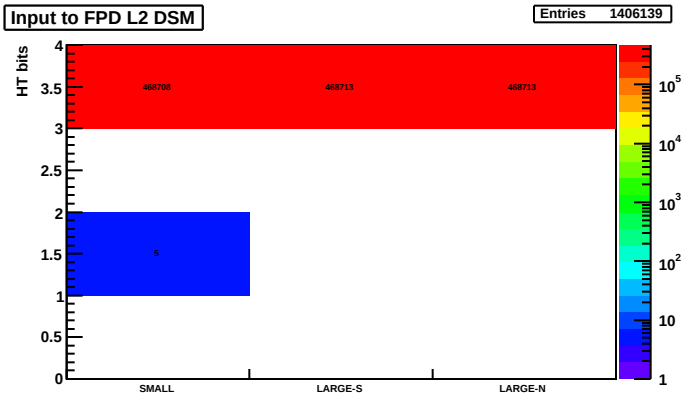

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

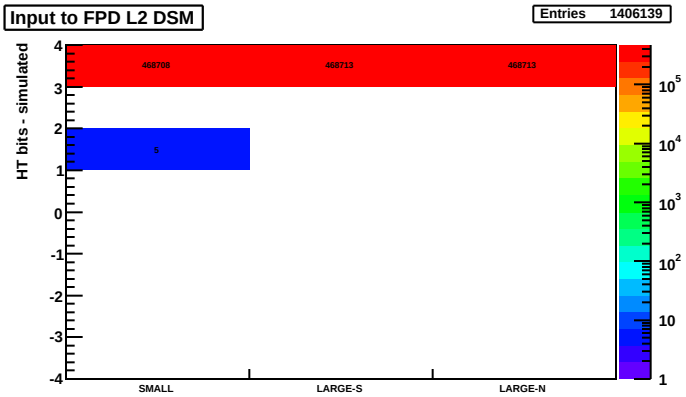

Input to FPD L2 DSM
Entries 3749704
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

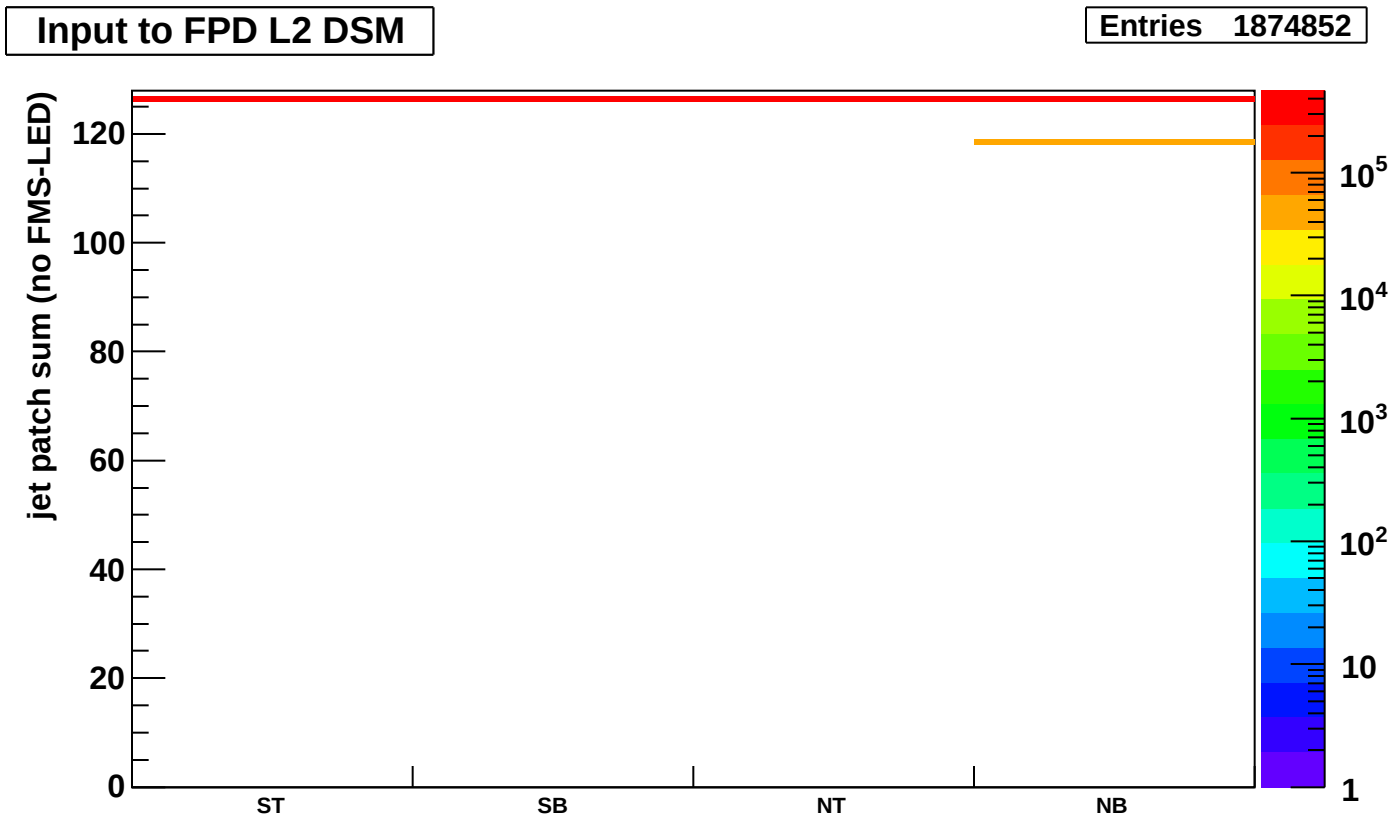

Input to FPD L2 DSM
Entries 3749704
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

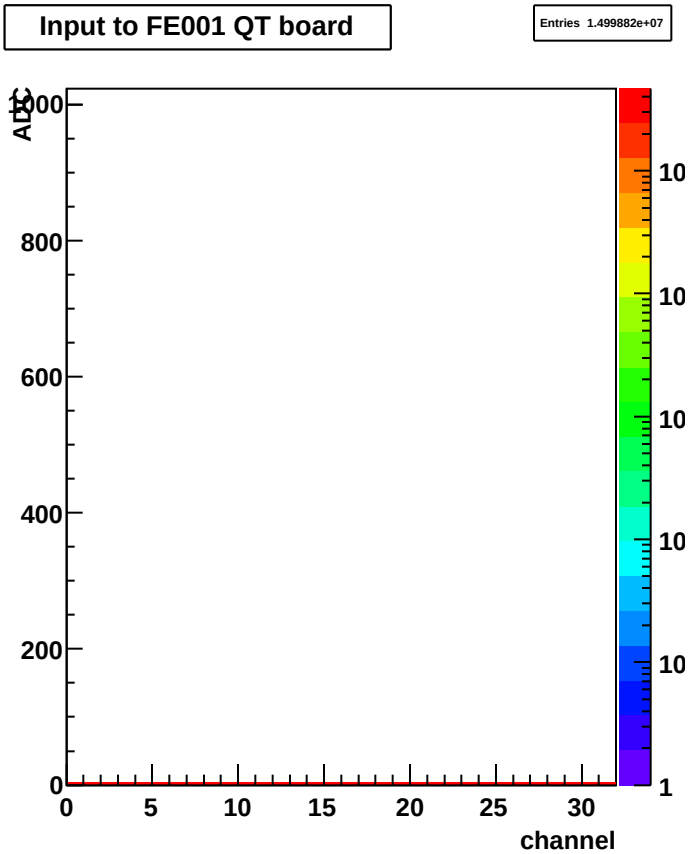

Input to FPD L2 DSM
Entries 1406139
CL bits
468713
468713
468713
SMALL
LARGE-S
LARGE-N

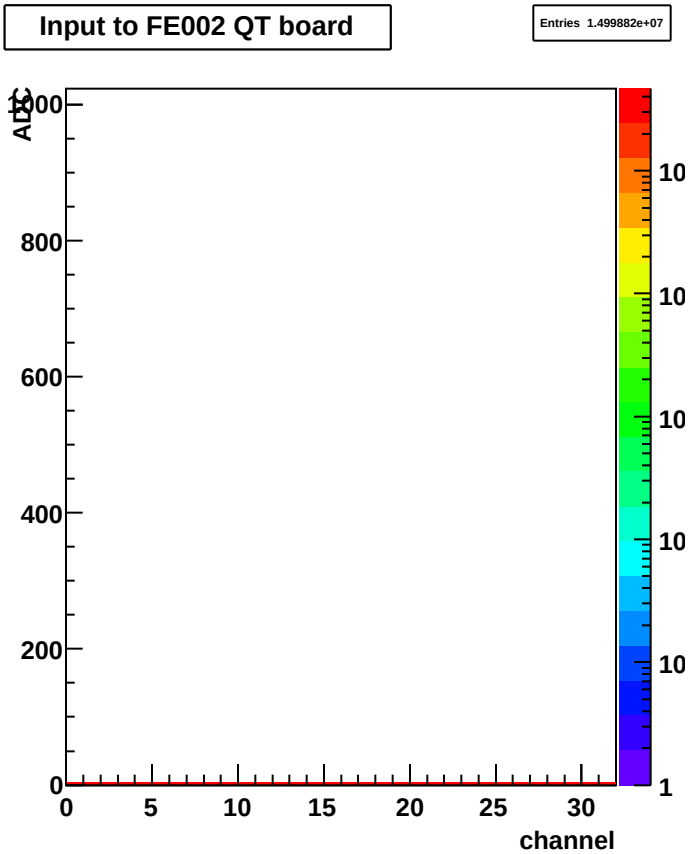

Input to FPD L2 DSM
Entries 1406139
CL bits - simulated
468713
468713
468713
SMALL
LARGE-S
LARGE-N

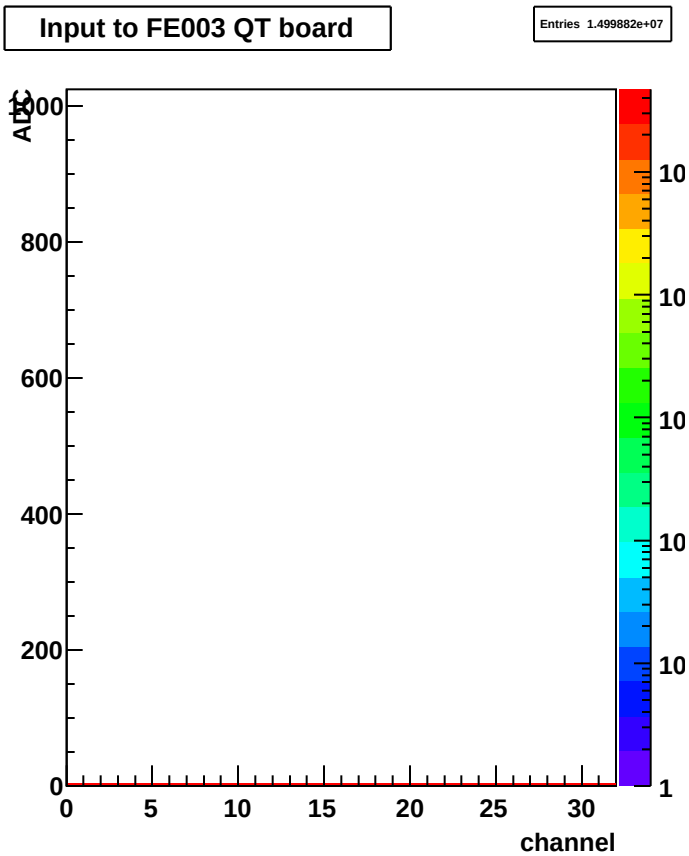

Input to FPD L2 DSM
Entries 1406139
HT bits
468708
468713
468713
5
SMALL
LARGE-S
LARGE-N

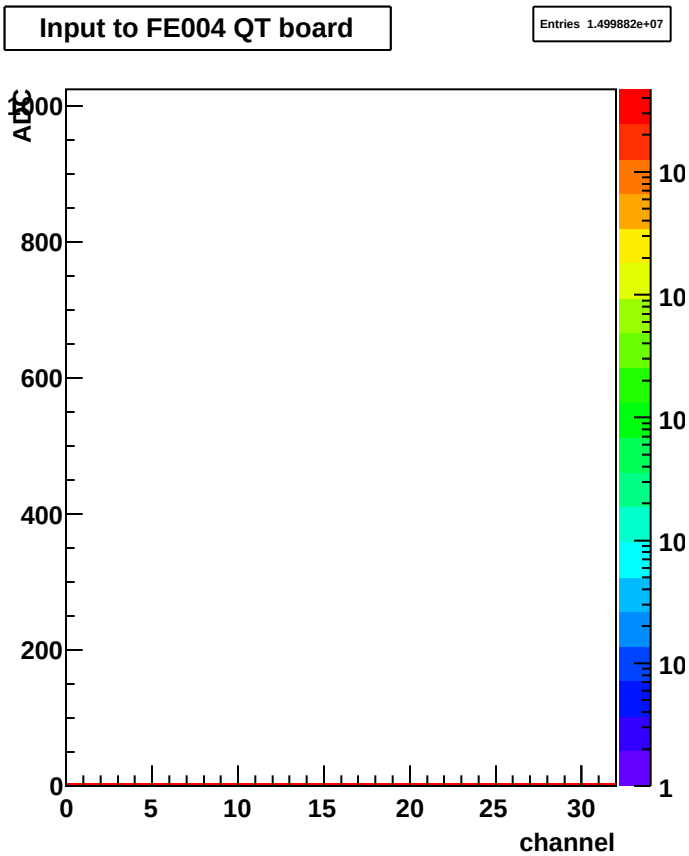

Input to FPD L2 DSM
Entries 1406139
HT bits - simulated
468708
468713
468713
5
SMALL
LARGE-S
LARGE-N

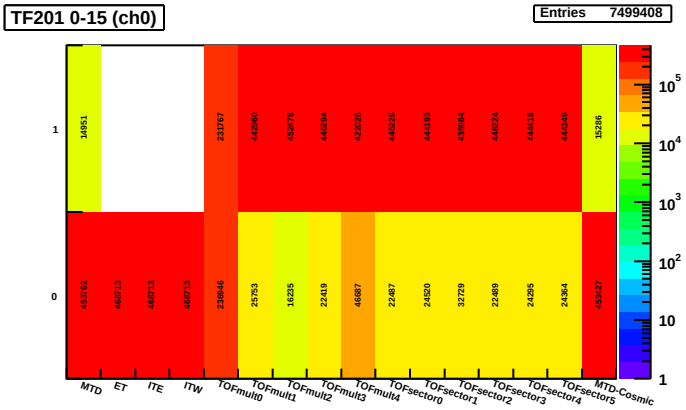

Input to FPD L2 DSM
Entries 1874852
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

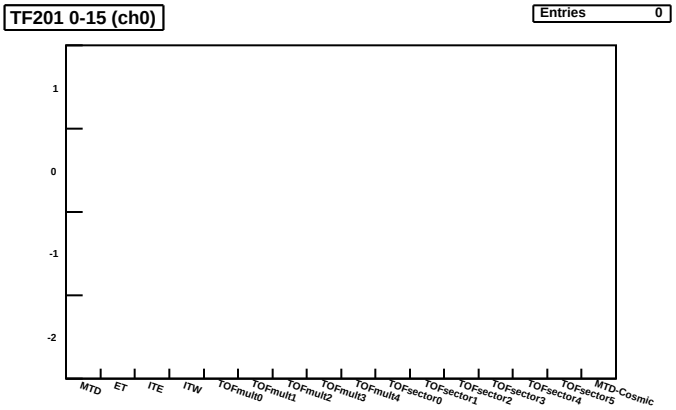

Input to FE001 QT board
Entries 1.499882e+07
ADC
channel

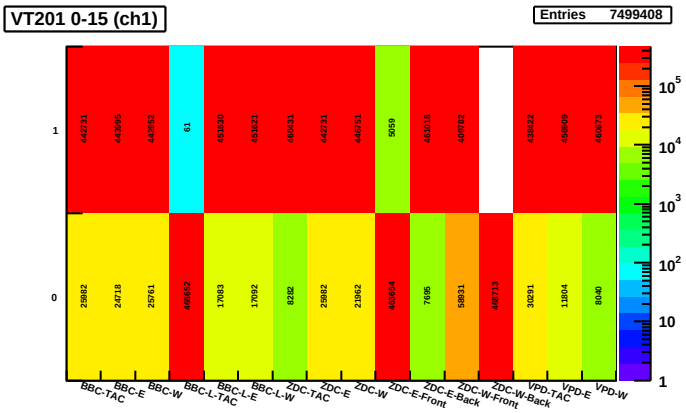

Input to FE002 QT board
Entries 1.499882e+07
ADC
channel

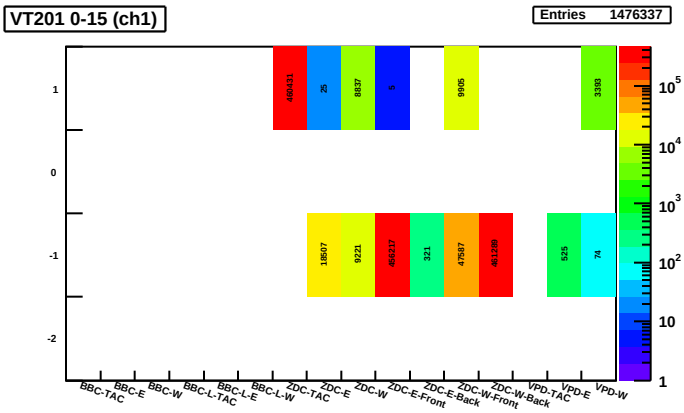

Input to FE003 QT board
Entries 1.499882e+07
ADC
channel

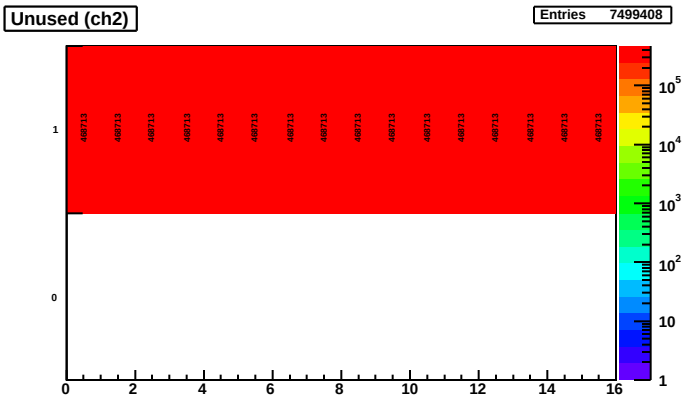

Input to FE004 QT board
Entries 1.499882e+07
ADC
channel

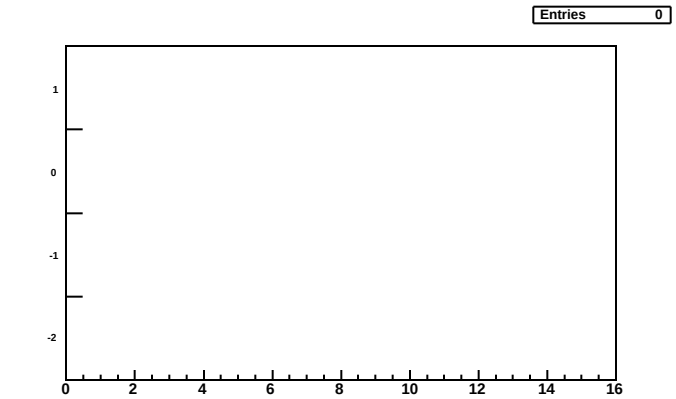

TF201 0-15 (ch0)
Entries 7499408
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

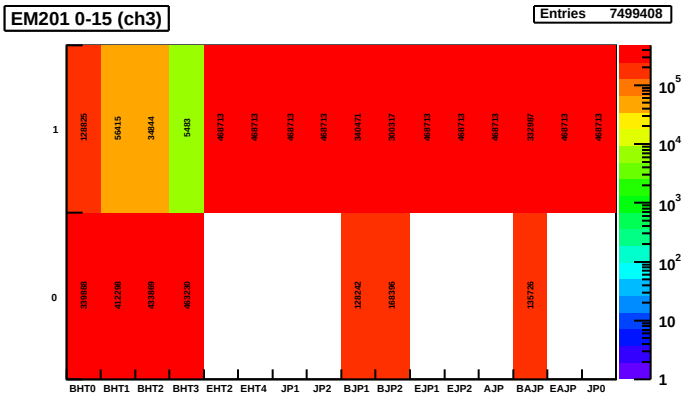

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

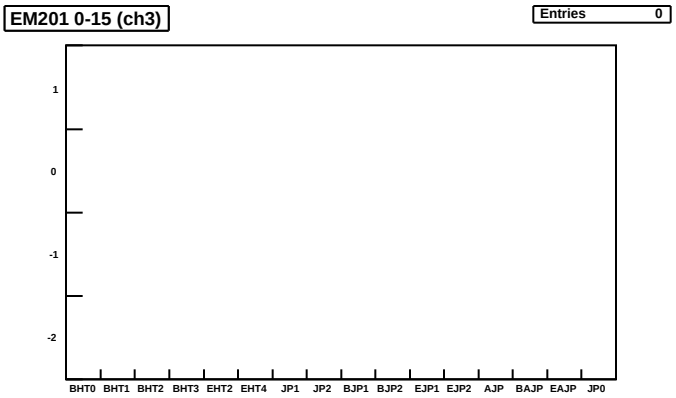

VT201 0-15 (ch1)
Entries 7499408
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

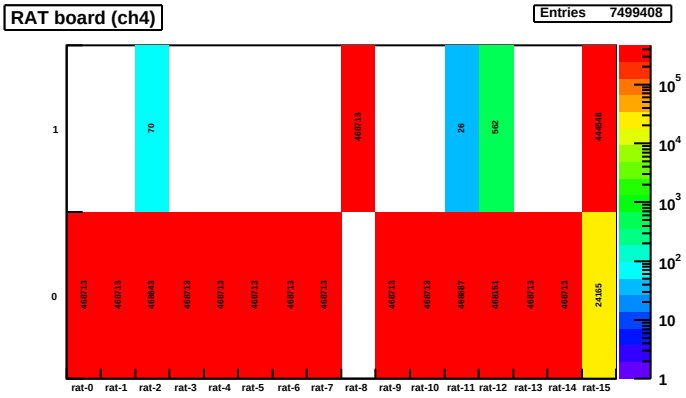

VT201 0-15 (ch1)
Entries 1476337
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

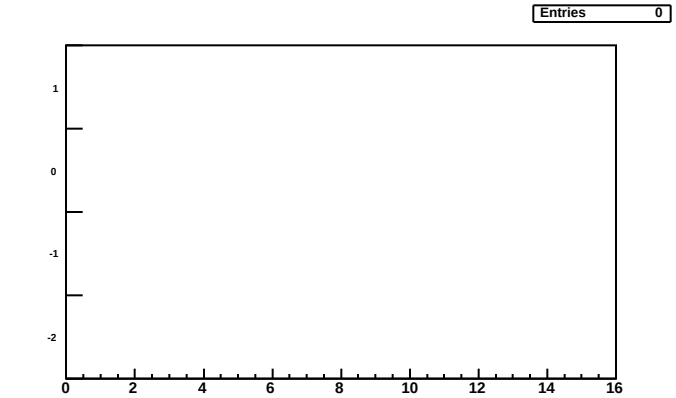

Unused (ch2)
Entries 7499408

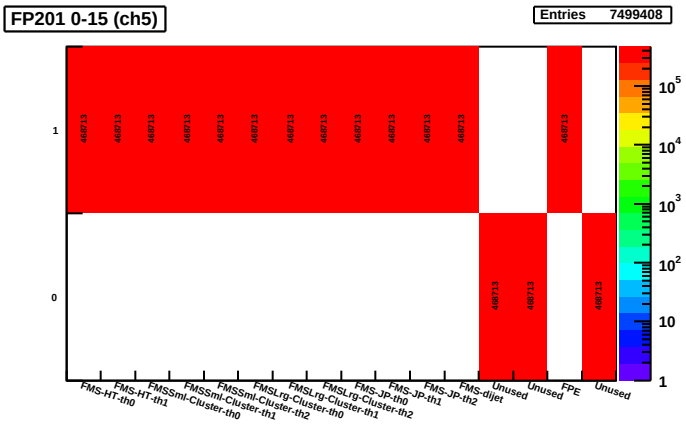

Entries 0

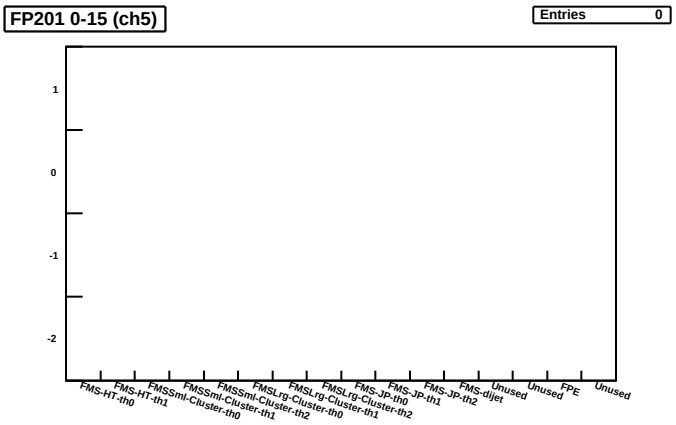

EM201 0-15 (ch3)
Entries 7499408
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

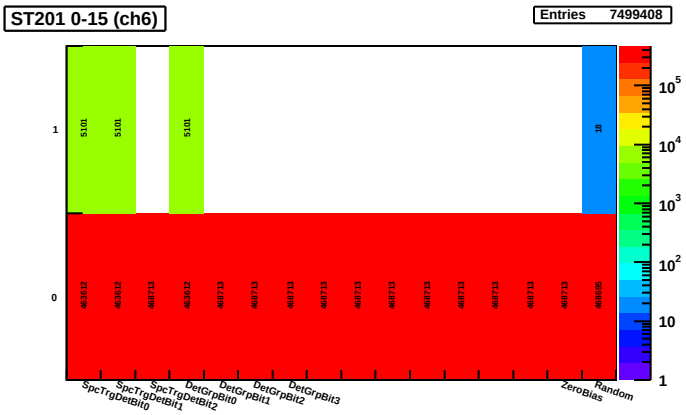

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

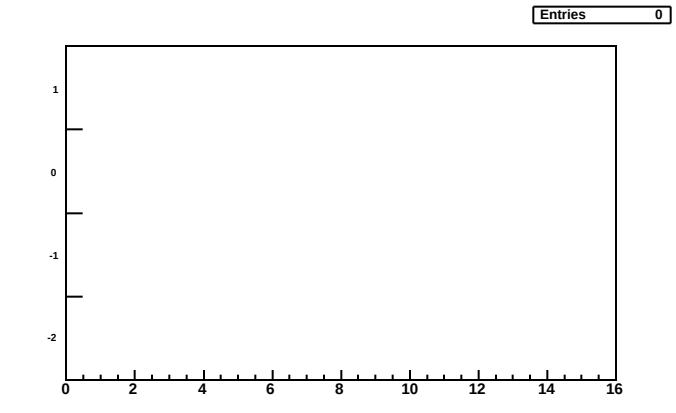

RAT board (ch4)
Entries 7499408
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

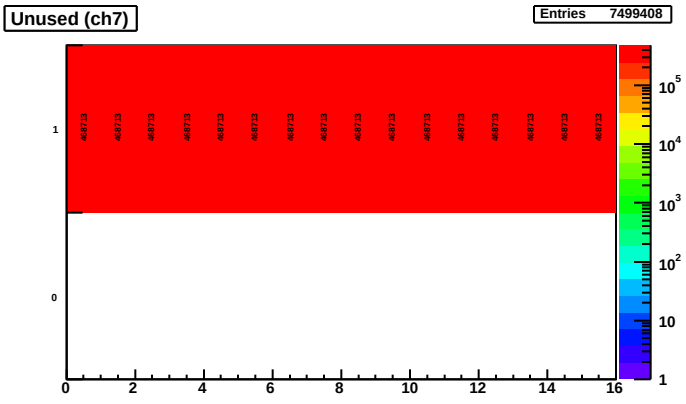

Entries 0

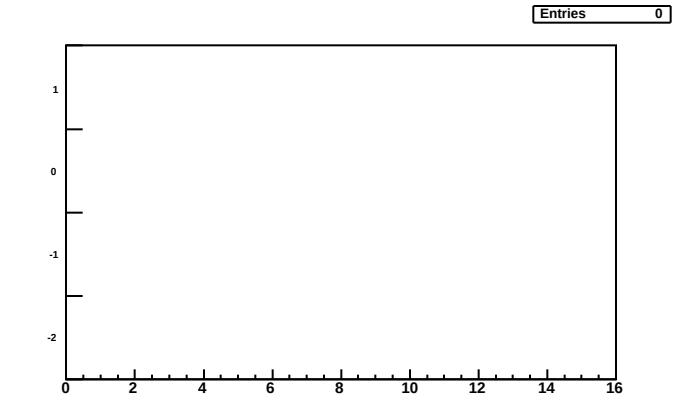

FP201 0-15 (ch5)
Entries 7499408
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 FMSSml-Cluster-th2 FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-diJet Unused Unused FPE Unused


FP201 0-15 (ch5)
Entries 0
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 FMSSml-Cluster-th2 FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-diJet Unused Unused FPE Unused


ST201 0-15 (ch6)
Entries 7499408
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random


Entries 0


Unused (ch7)
Entries 7499408


Entries 0