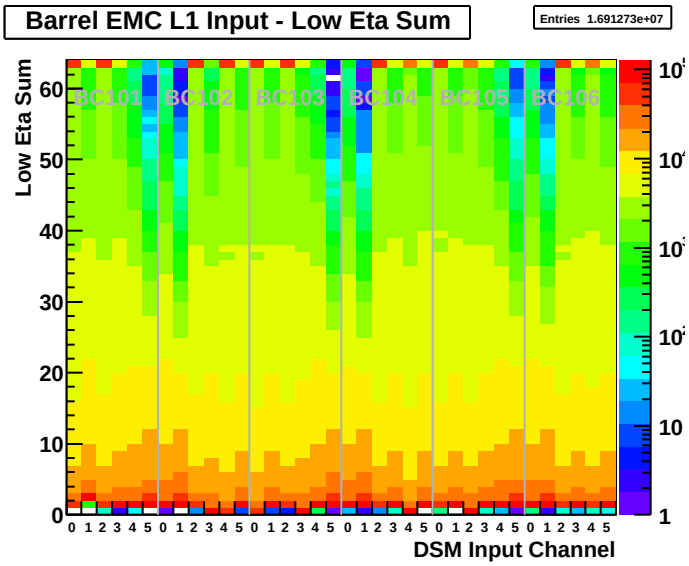
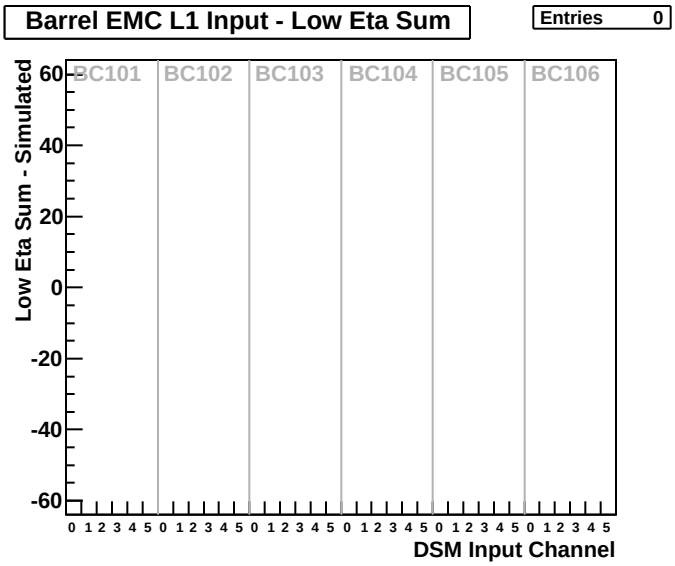
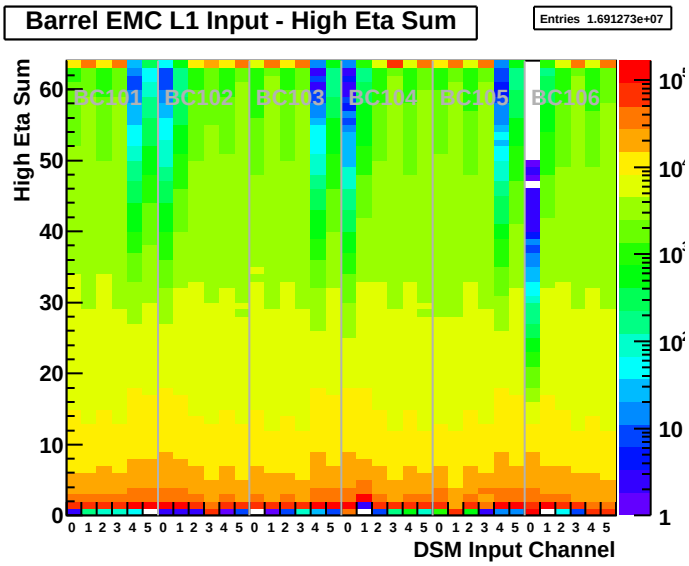
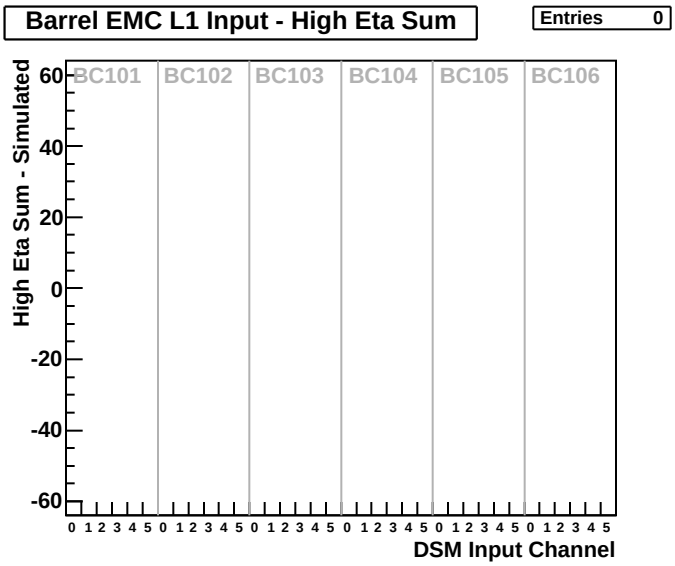
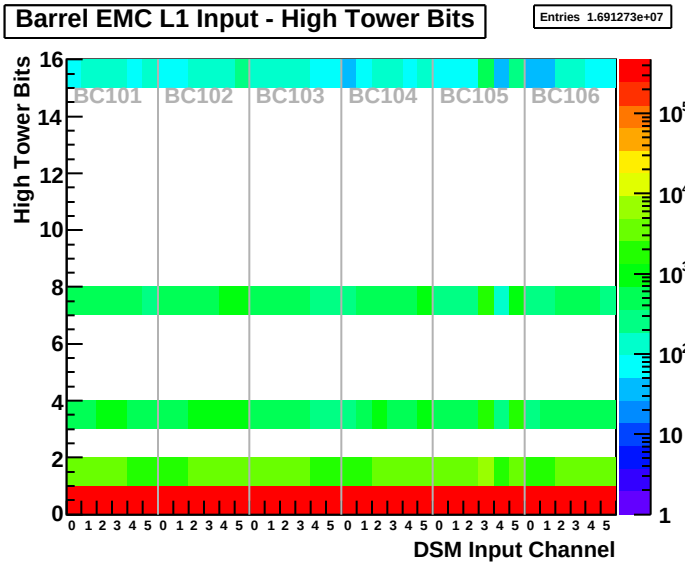
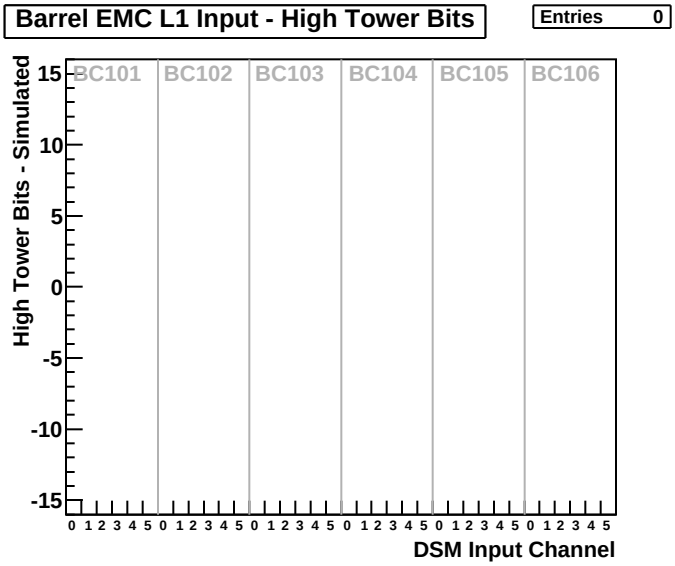

Barrel EMC L1 Input - Low Eta Sum
Entries 1.691273e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

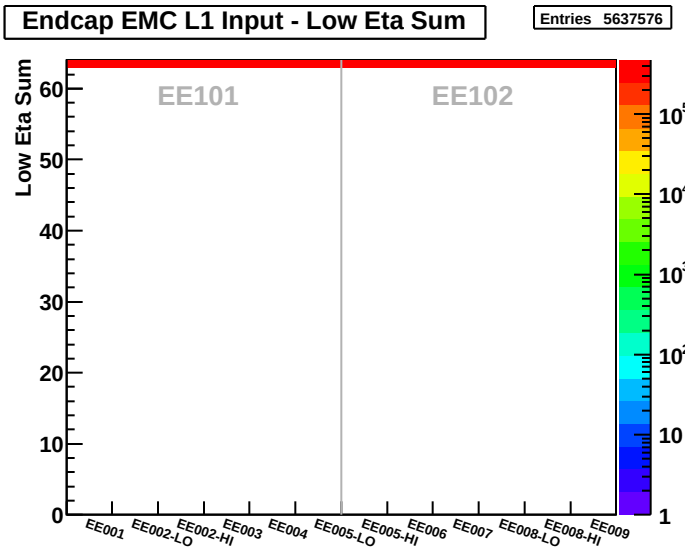

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

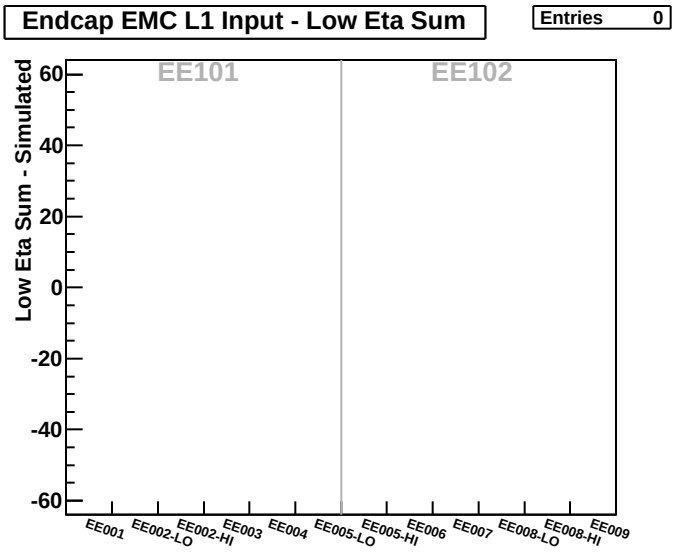

Barrel EMC L1 Input - High Eta Sum
Entries 1.691273e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

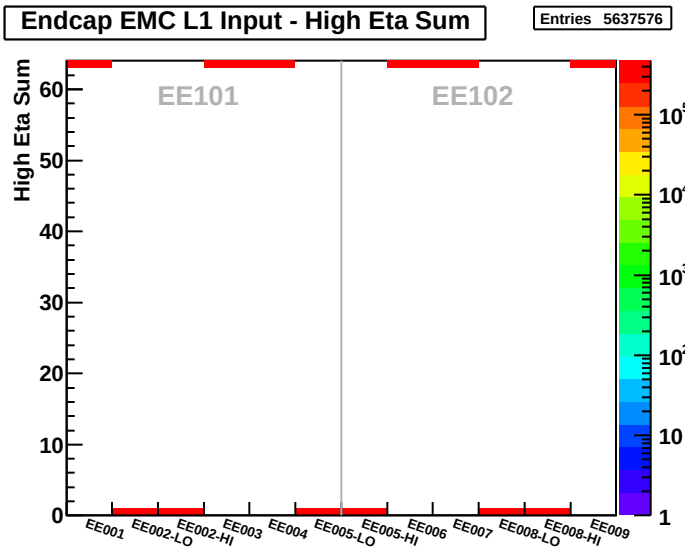

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

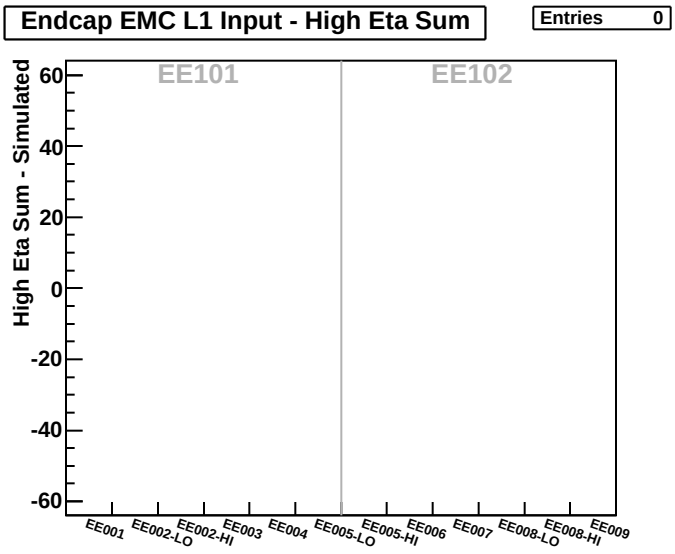

Barrel EMC L1 Input - High Tower Bits
Entries 1.691273e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

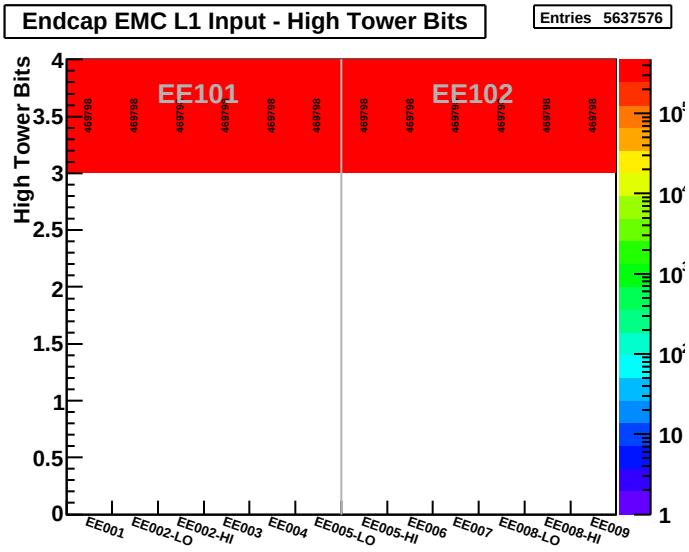

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

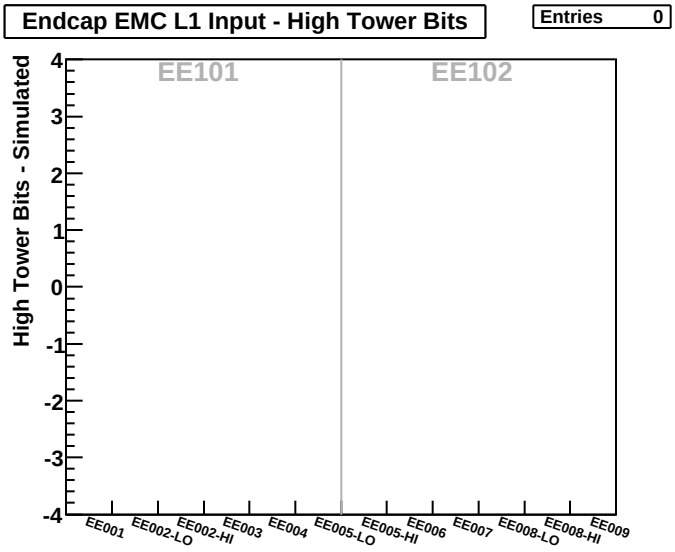

Endcap EMC L1 Input - Low Eta Sum
Entries 5637576
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

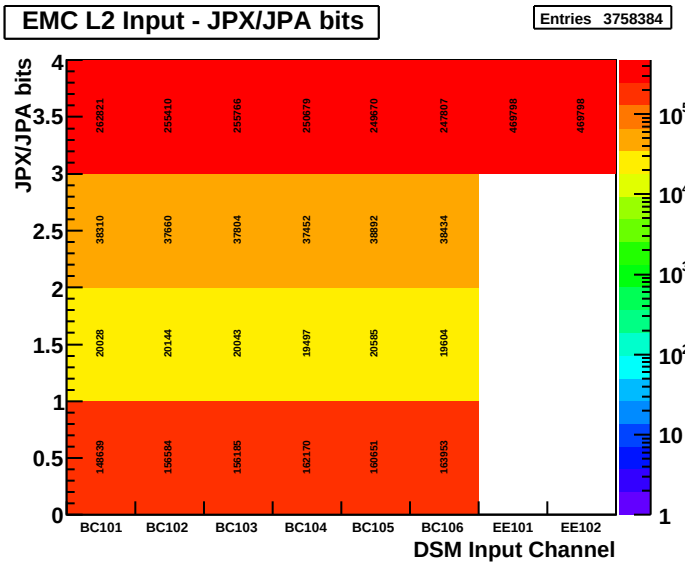

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

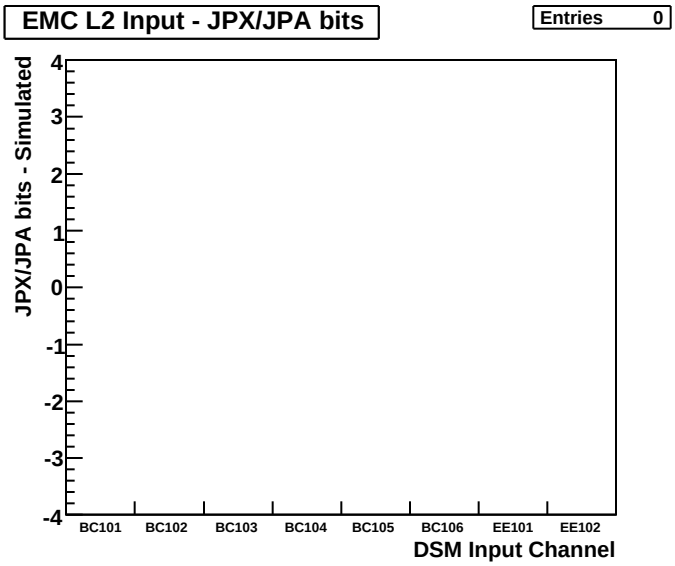

Endcap EMC L1 Input - High Eta Sum
Entries 5637576
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

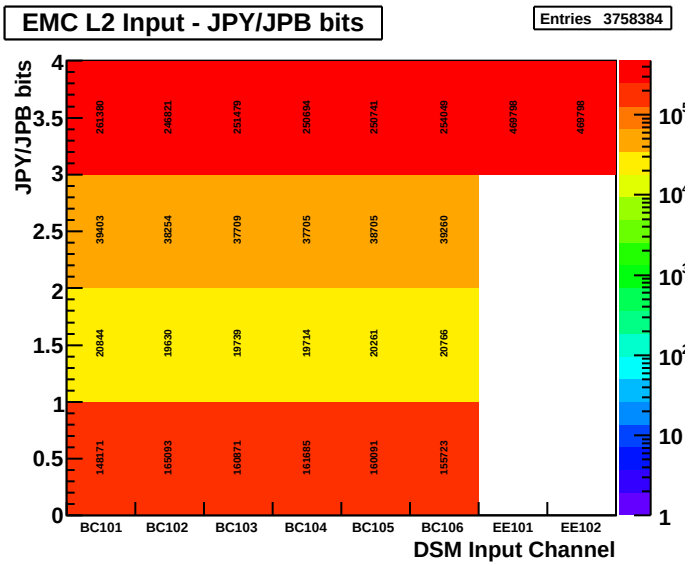

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

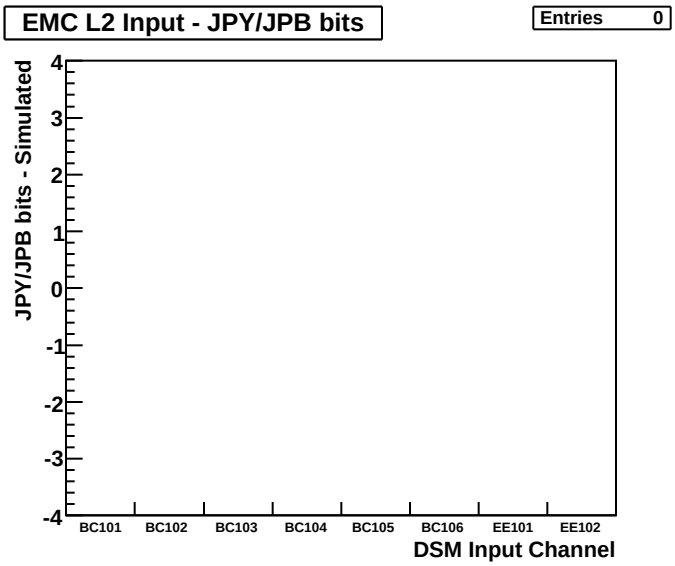

Endcap EMC L1 Input - High Tower Bits
Entries 5637576
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

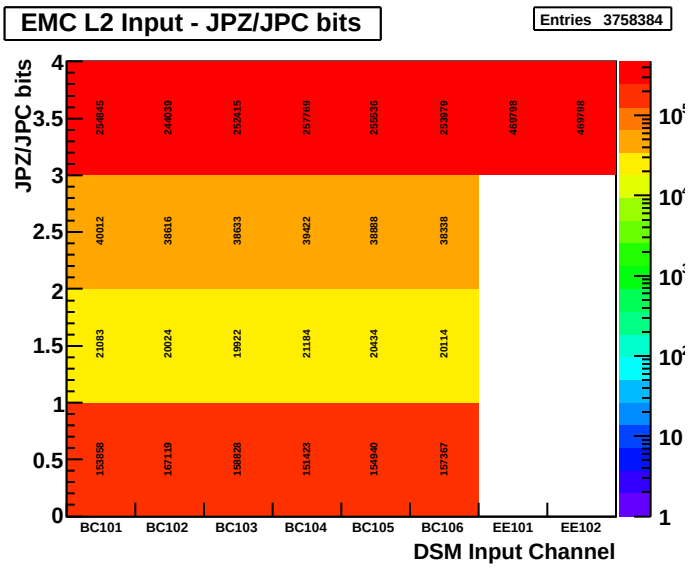

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

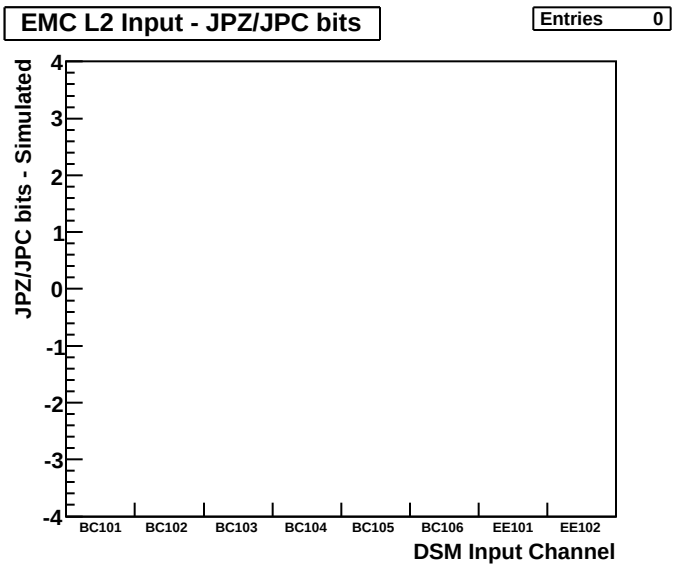

EMC L2 Input - JPX/JPA bits
Entries 3758384
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
262821 255410 255766 250679 249870 247807 469798 469798
38310 37660 37804 37452 38892 38434
20028 20144 20043 19497 20585 19604
148639 156584 156185 162170 160651 163953

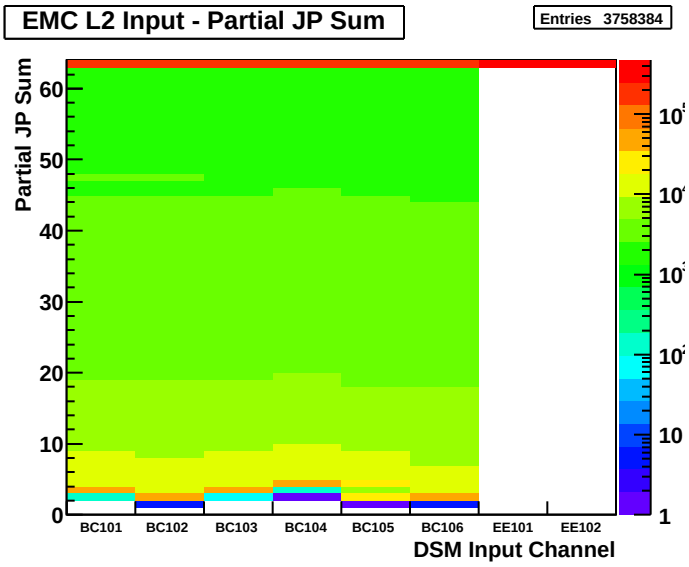

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

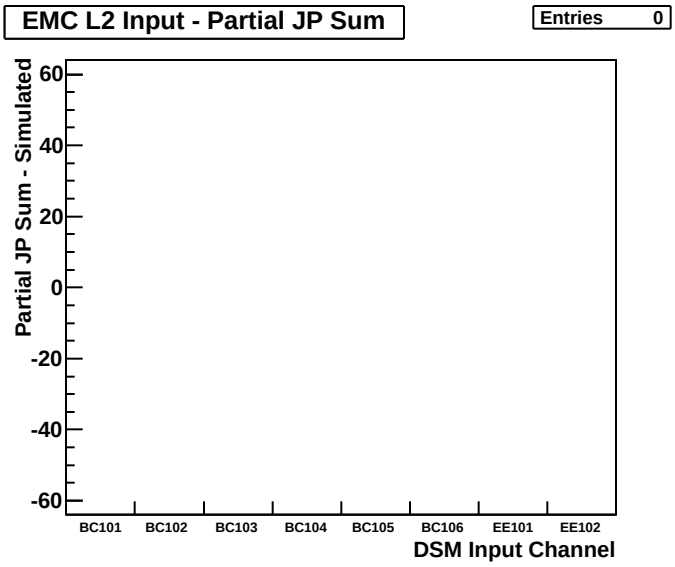

EMC L2 Input - JPY/JPB bits
Entries 3758384
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
261380 246821 251479 250694 250741 254049 469798 469798
39403 38254 37709 37705 38705 39260
20844 19630 19739 19714 20261 20766
148171 166093 160871 161685 160091 155723

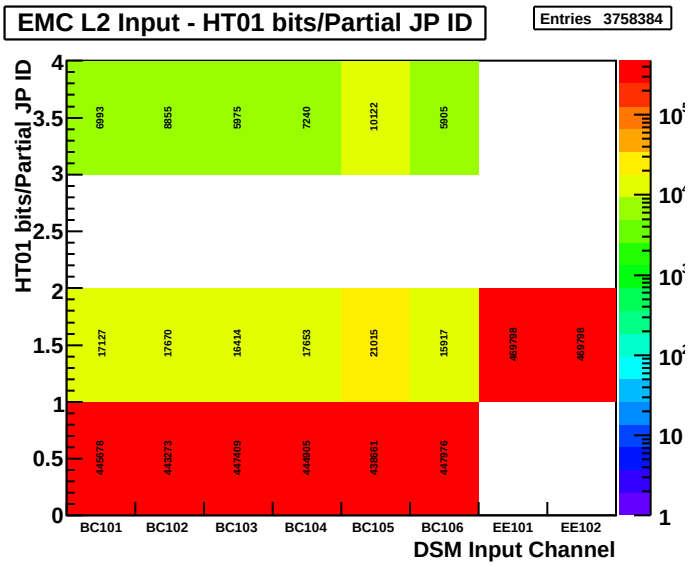

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

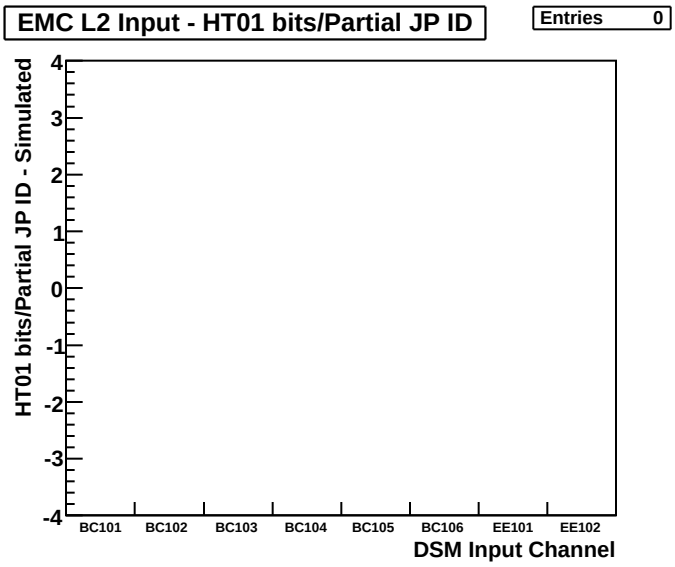

EMC L2 Input - JPZ/JPC bits
Entries 3758384
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
254845 244039 252415 257769 255536 253979 469798 469798
40012 38616 38633 39422 38888 38338
21083 20024 19922 21184 20434 20114
153958 167119 158828 151423 154940 157367

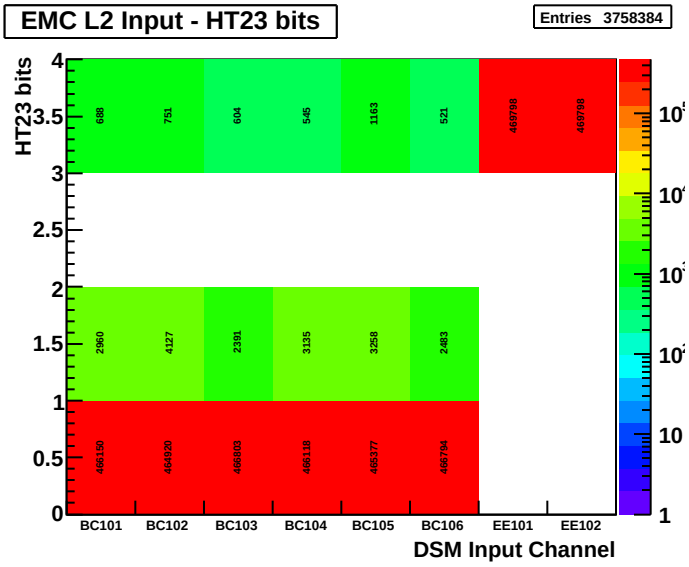

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

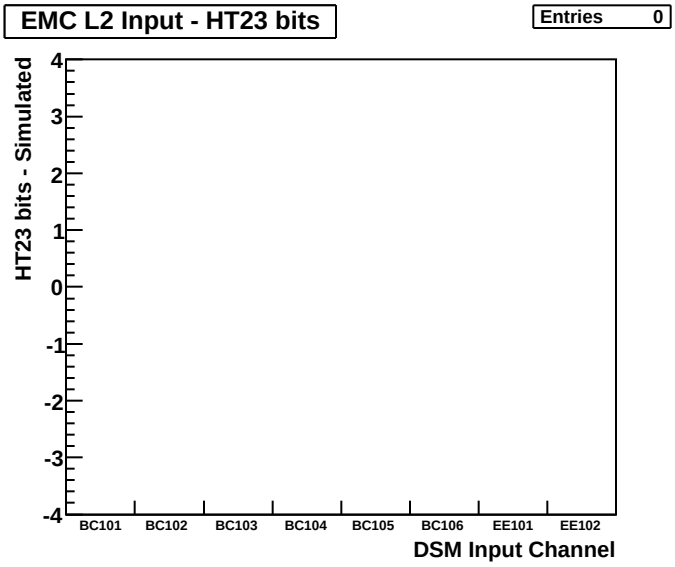

EMC L2 Input - Partial JP Sum
Entries 3758384
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

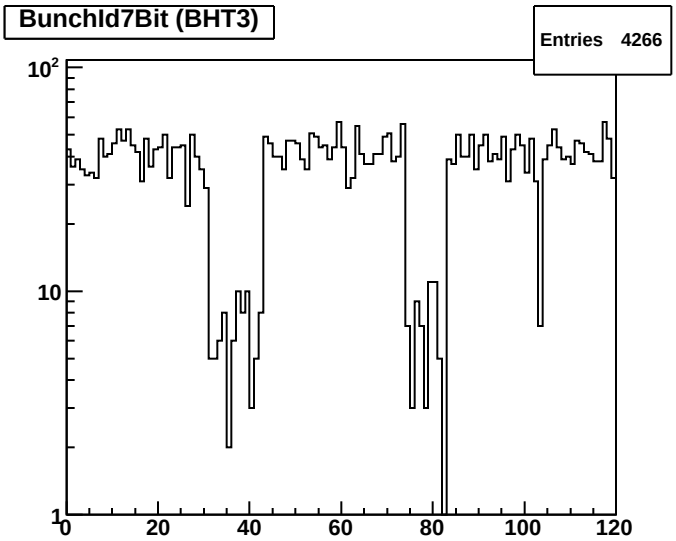

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

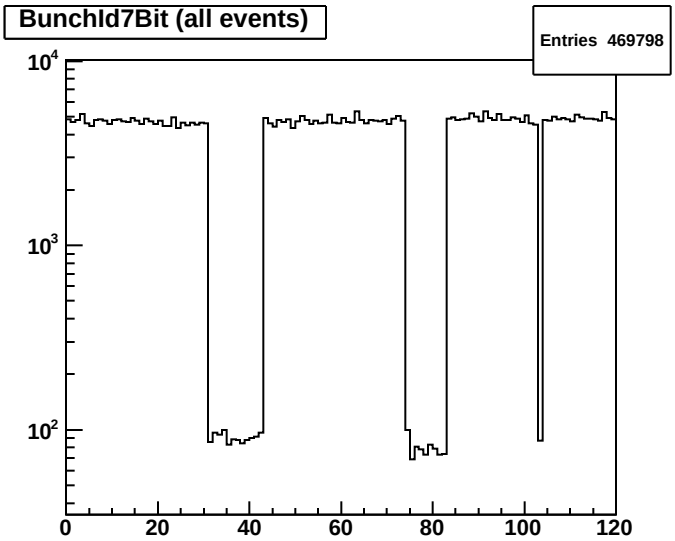

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3758384
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

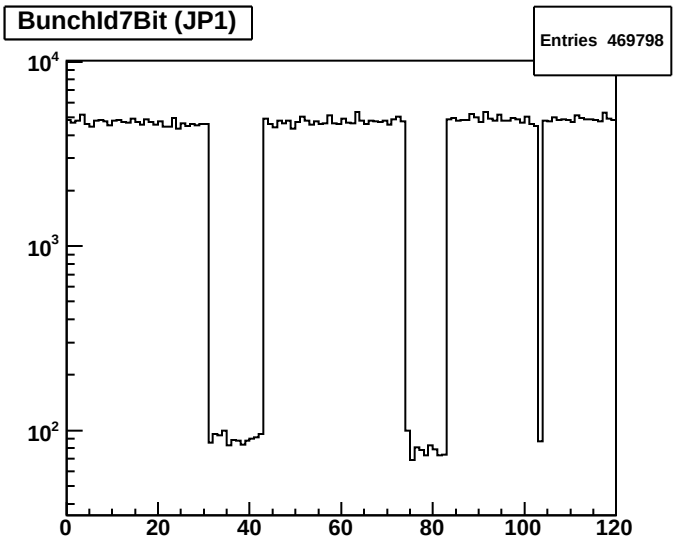

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

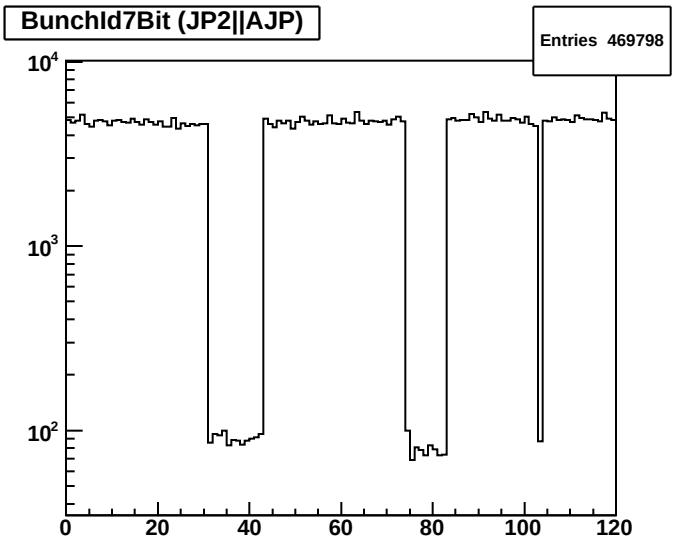

EMC L2 Input - HT23 bits
Entries 3758384
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

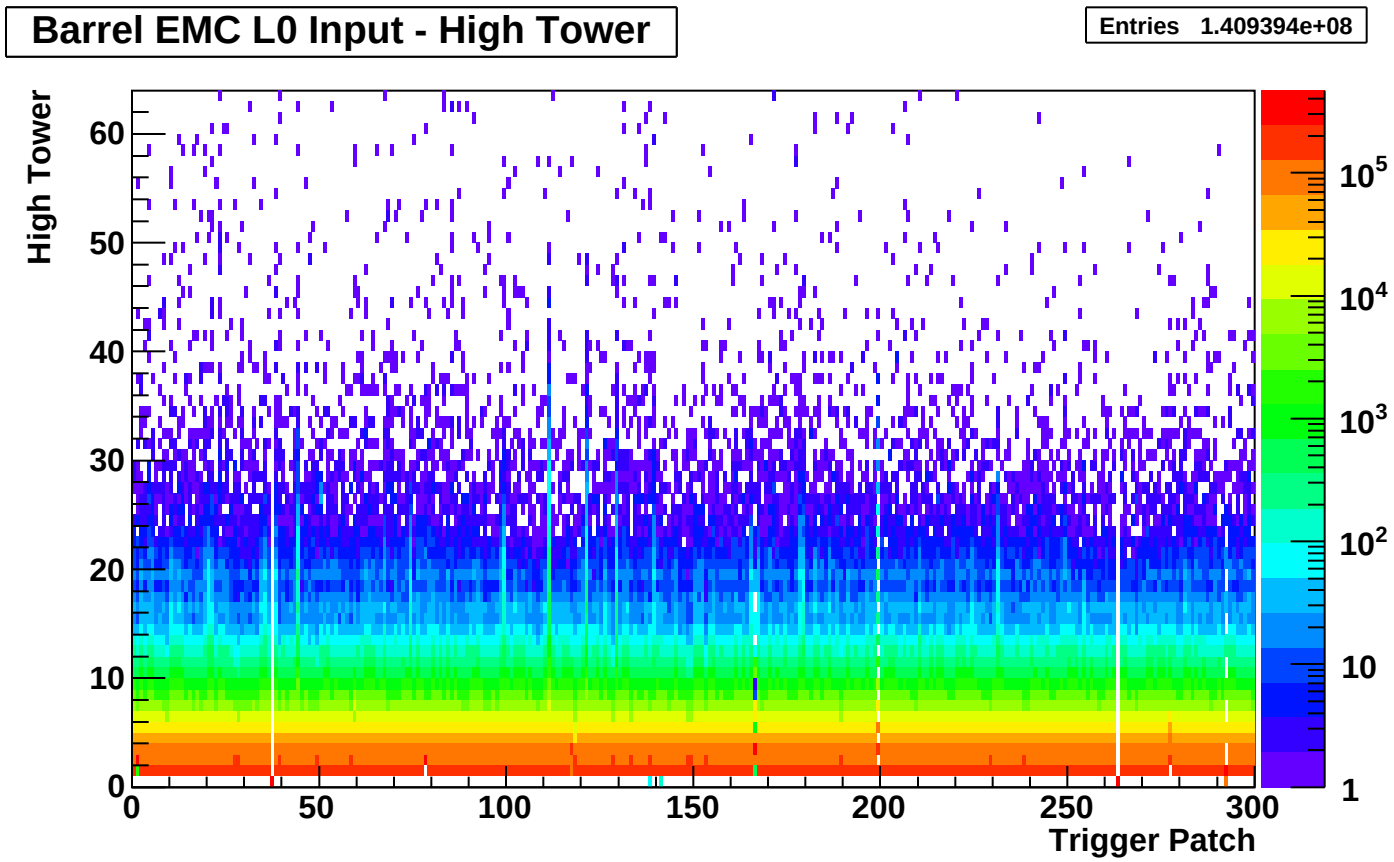

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

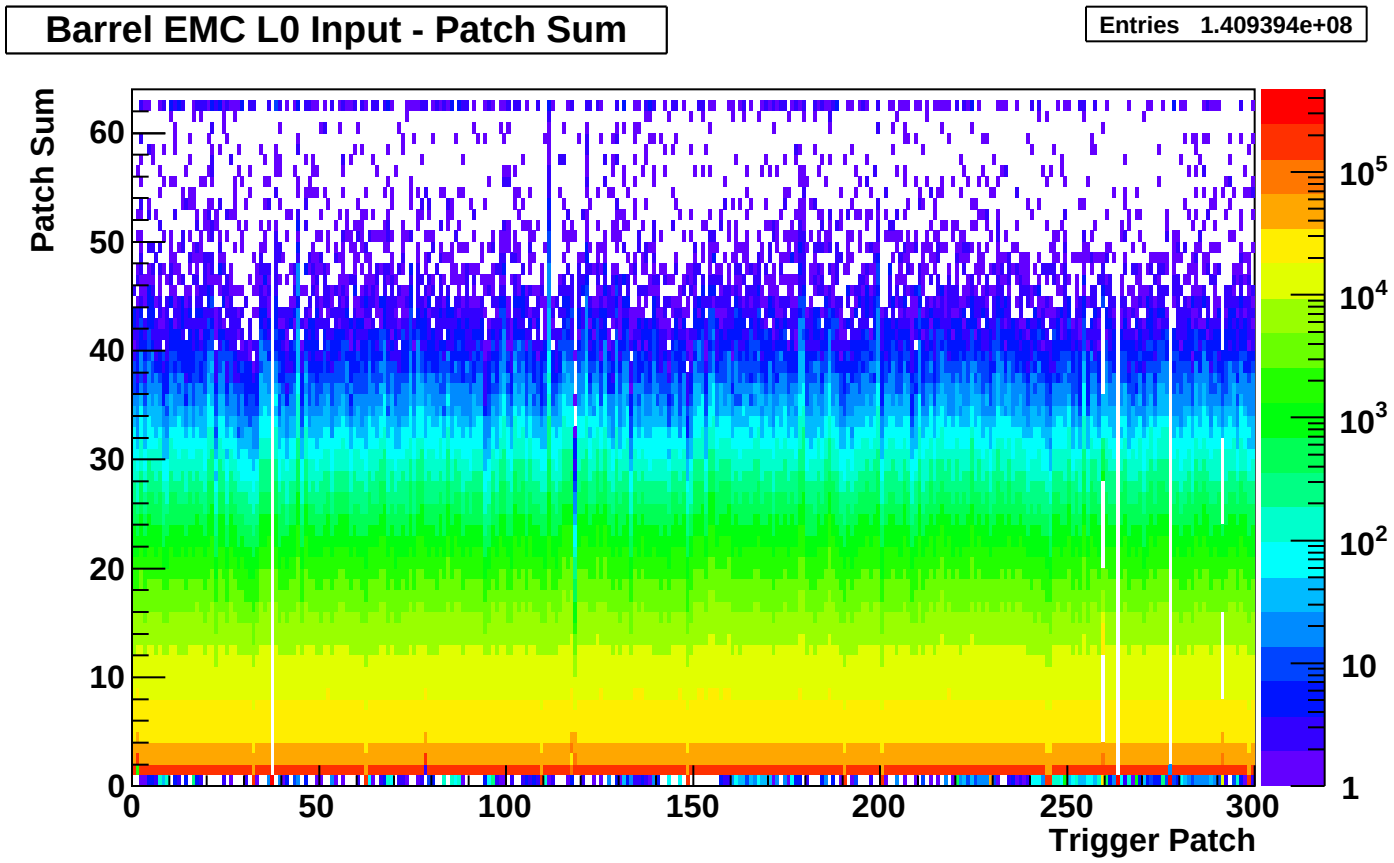

BunchId7Bit (BHT3)
Entries 4266
$10^2$
10
1
0
20
40
60
80
100
120

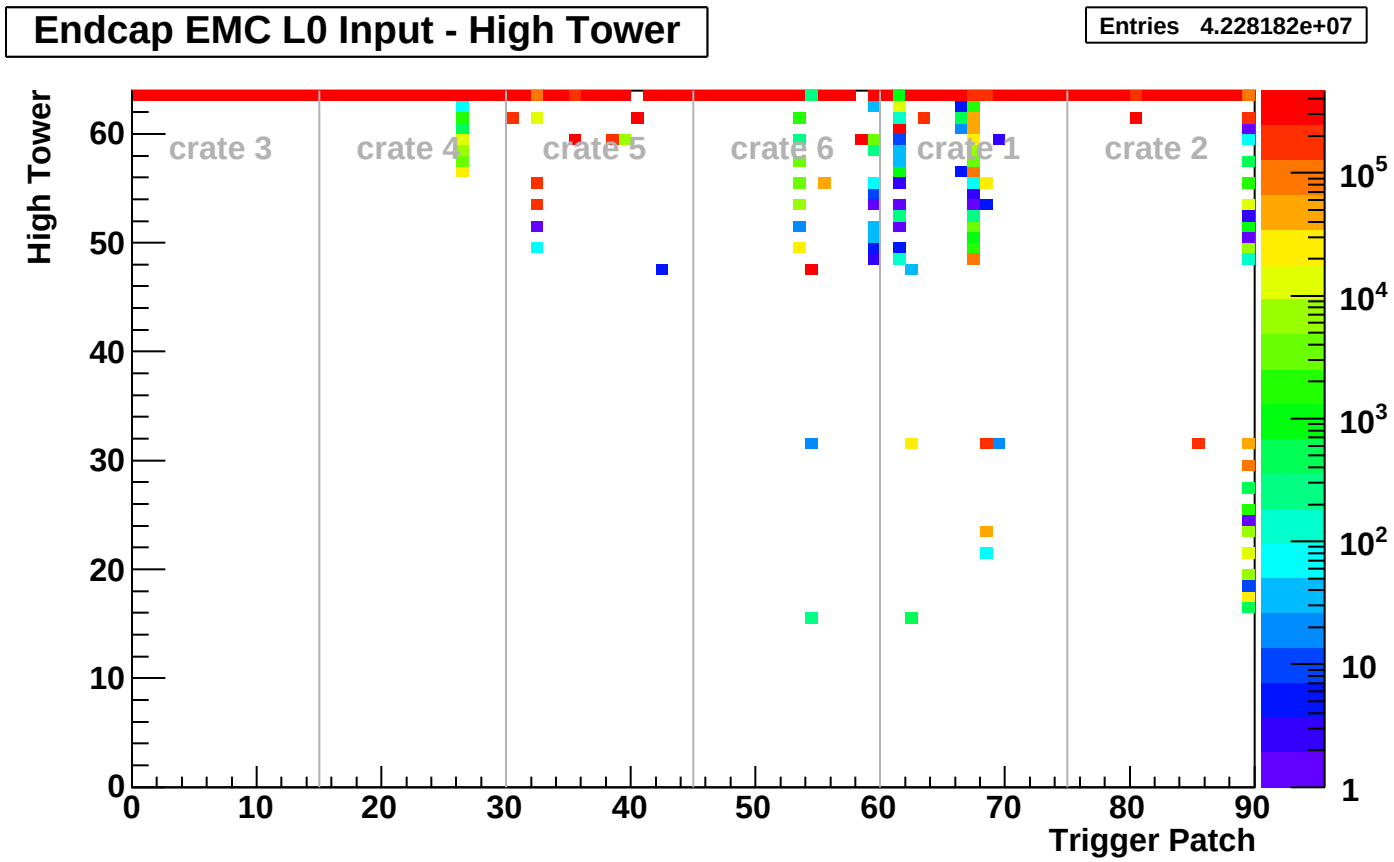

BunchId7Bit (all events)
Entries 469798
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

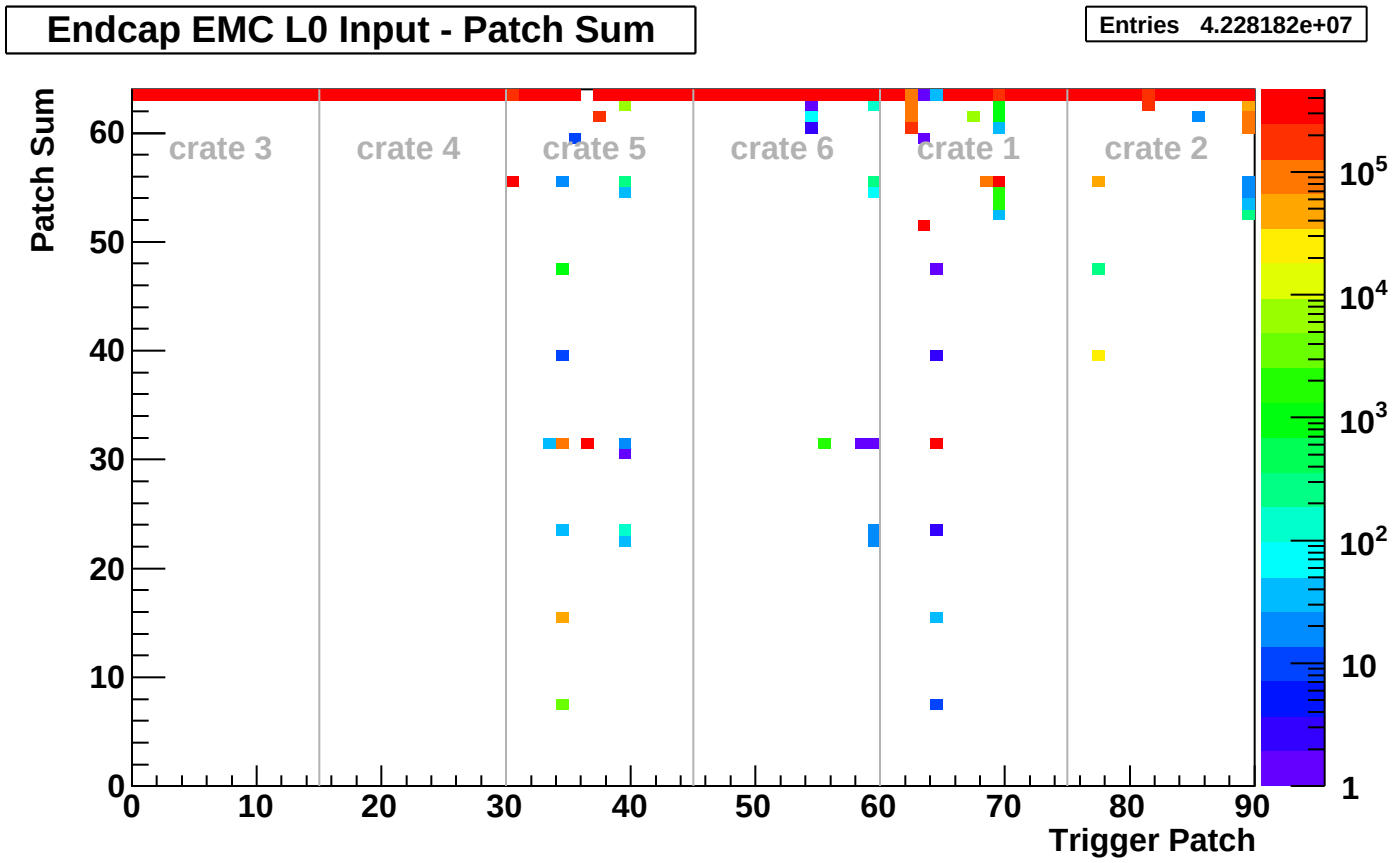

BunchId7Bit (JP1)
Entries 469798
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

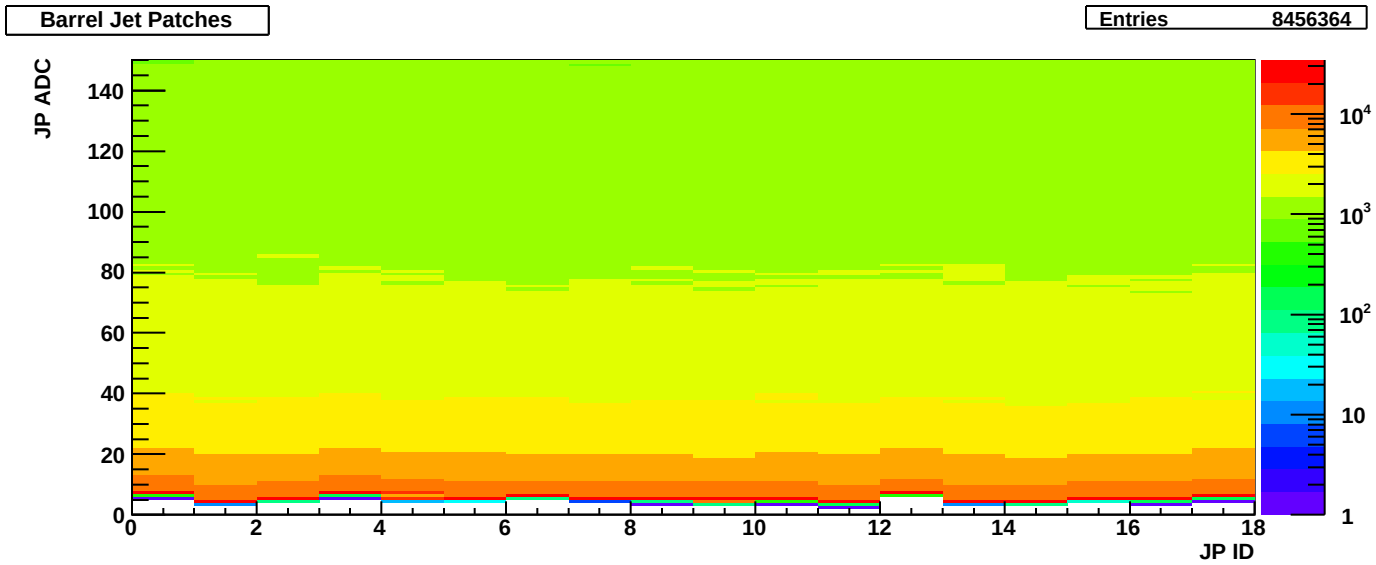

BunchId7Bit (JP2||AJP)
Entries 469798
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

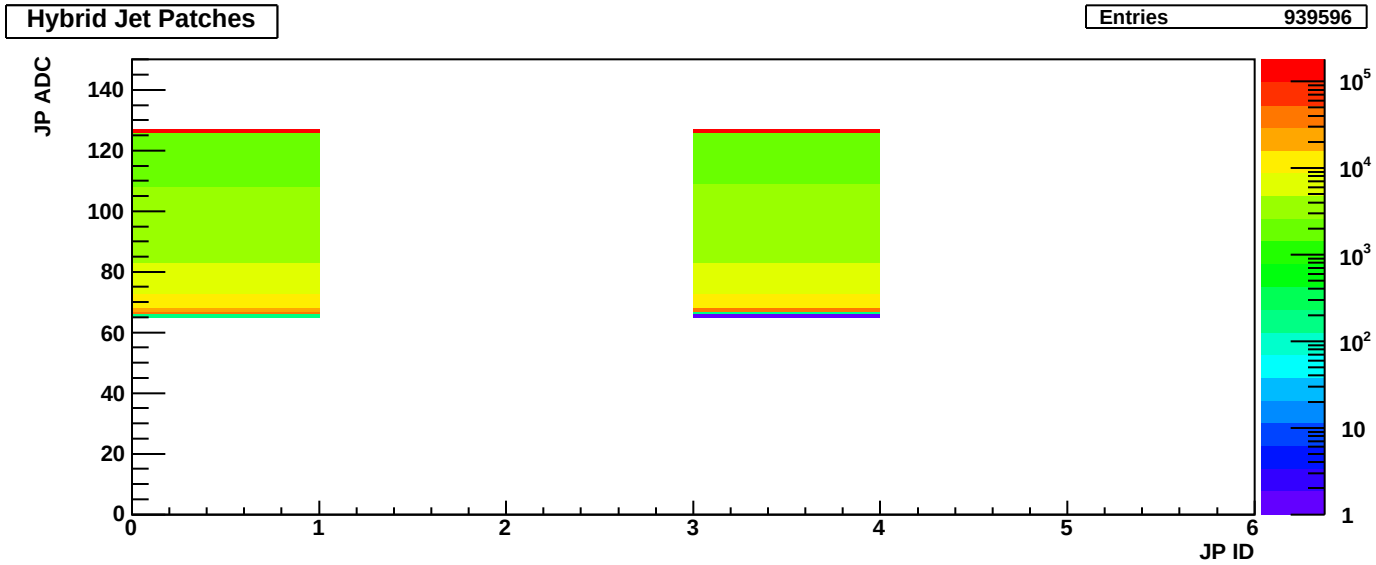

Barrel EMC L0 Input - High Tower
Entries 1.409394e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

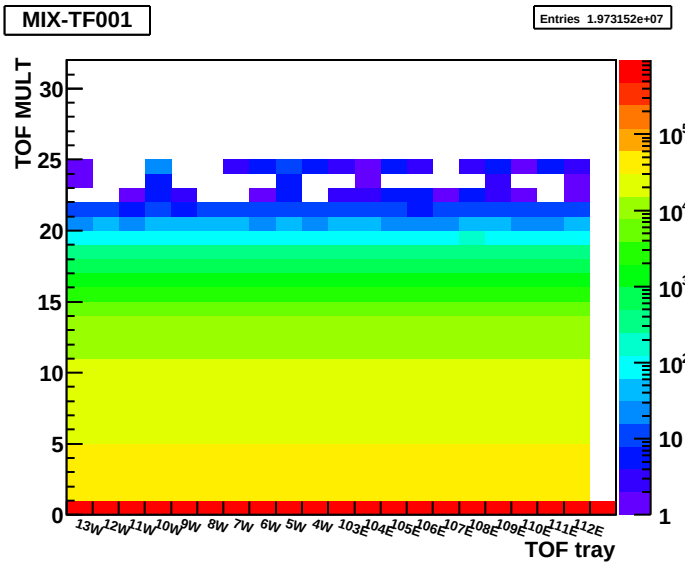

Barrel EMC L0 Input - Patch Sum
Entries 1.409394e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

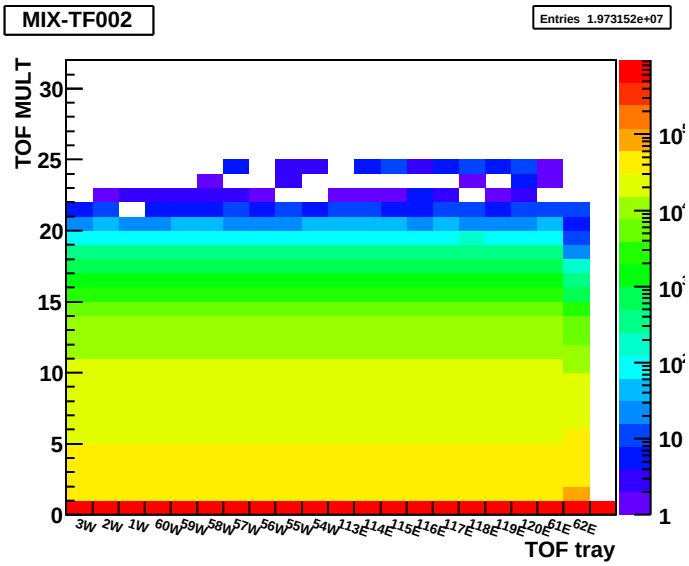

Endcap EMC L0 Input - High Tower
Entries 4.228182e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

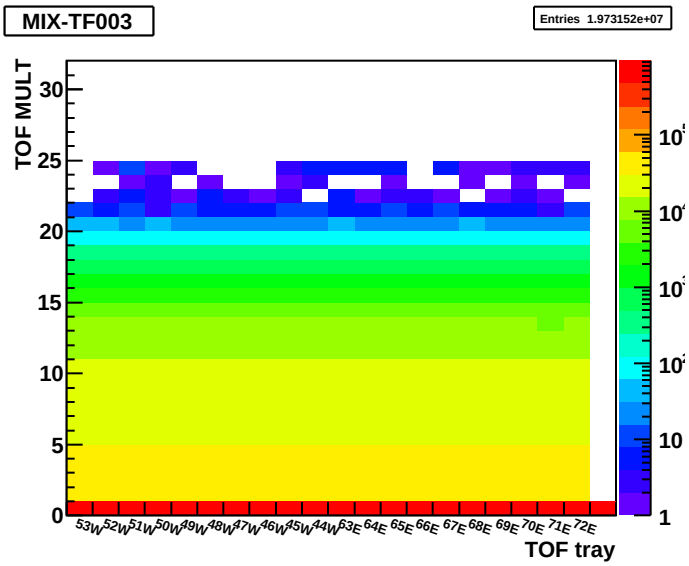

Endcap EMC L0 Input - Patch Sum
Entries 4.228182e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

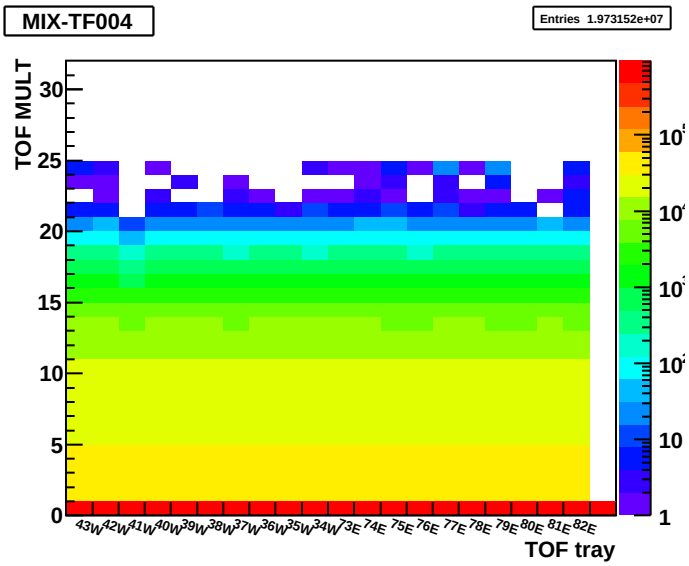

Barrel Jet Patches
Entries 8456364
JP ADC
JP ID

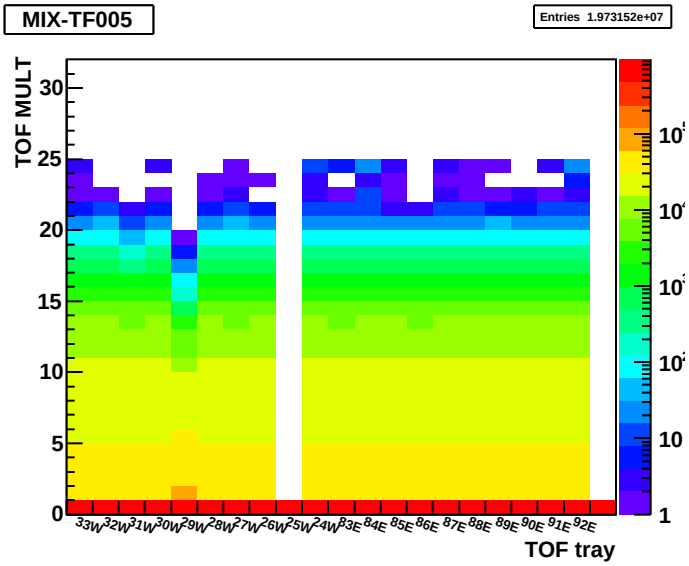

Hybrid Jet Patches
Entries 939596
JP ADC
JP ID

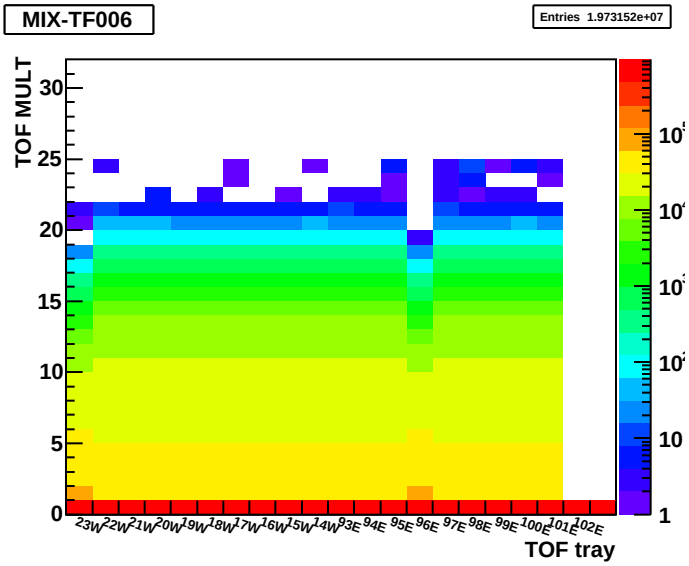

MIX-TF001
Entries 1.973152e+07
TOF MULT
TOF tray

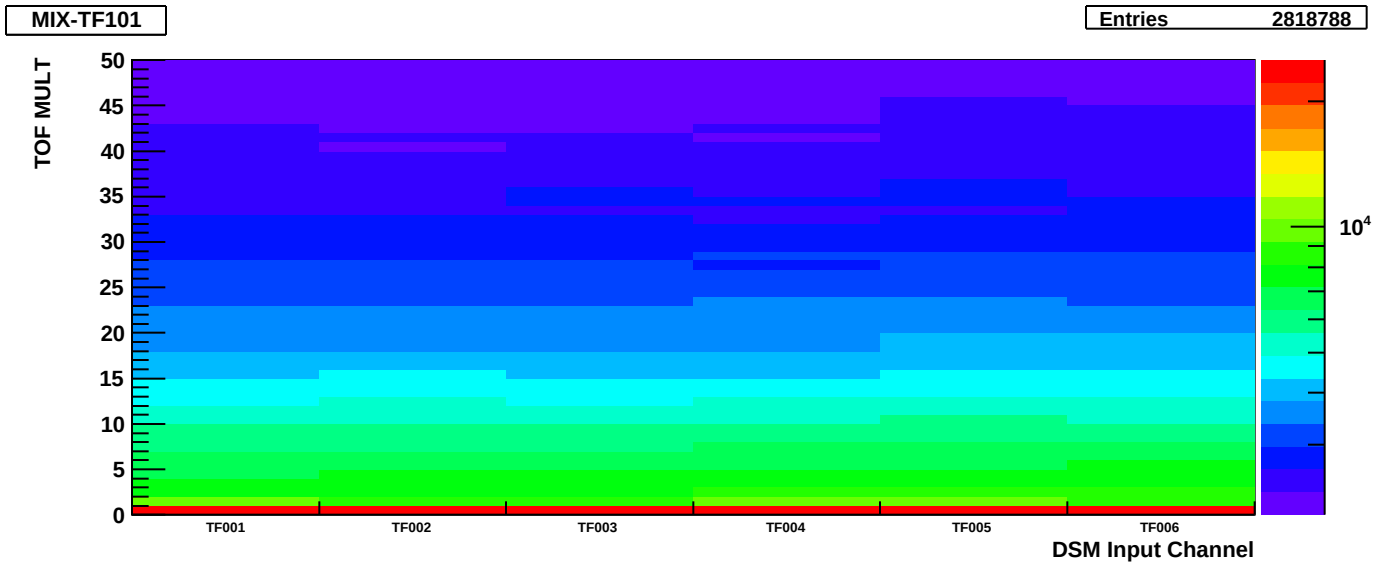

MIX-TF002
Entries 1.973152e+07
TOF MULT
TOF tray

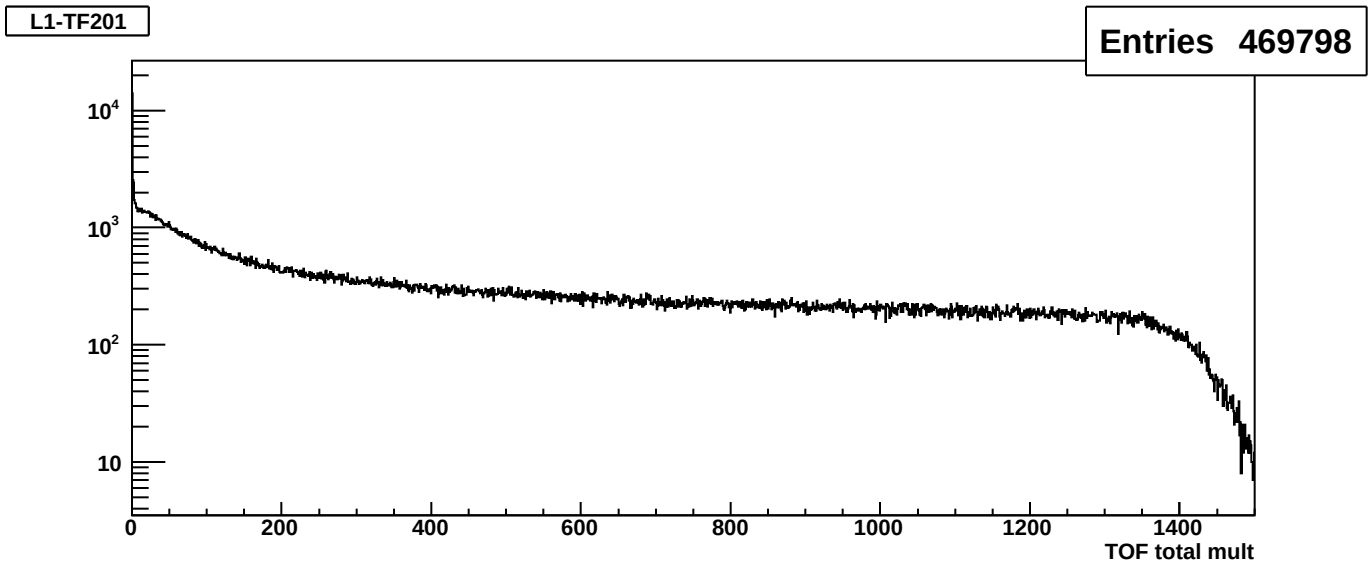

MIX-TF003
Entries 1.973152e+07
TOF MULT
TOF tray

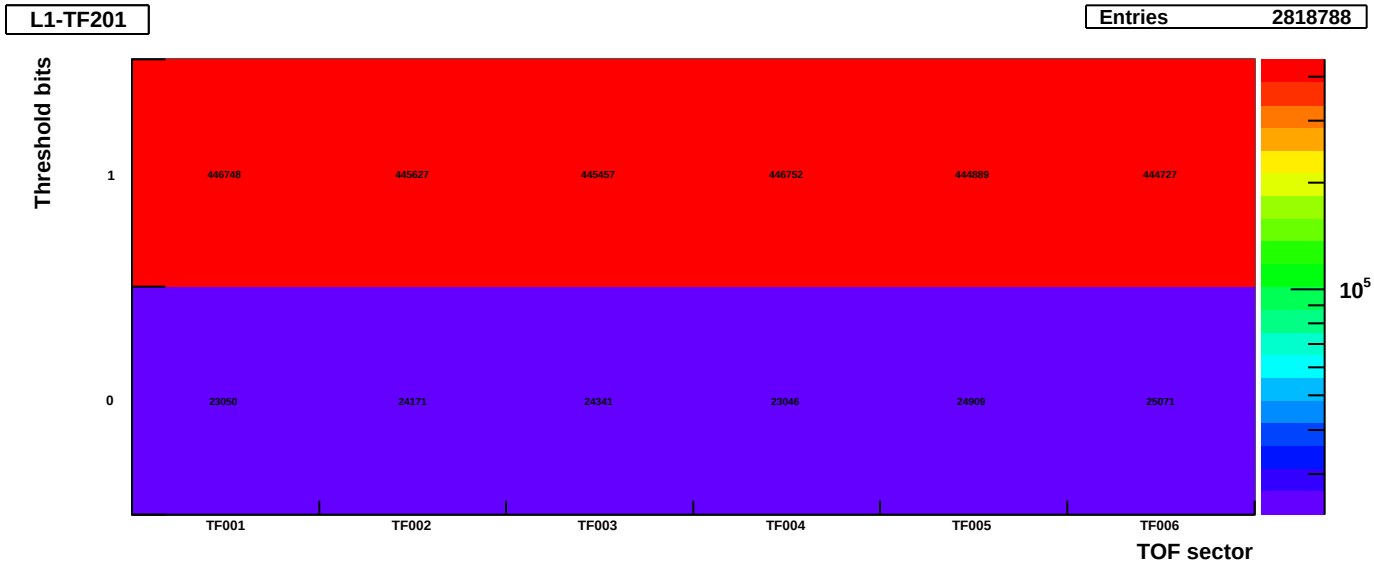

MIX-TF004
Entries 1.973152e+07
TOF MULT
TOF tray

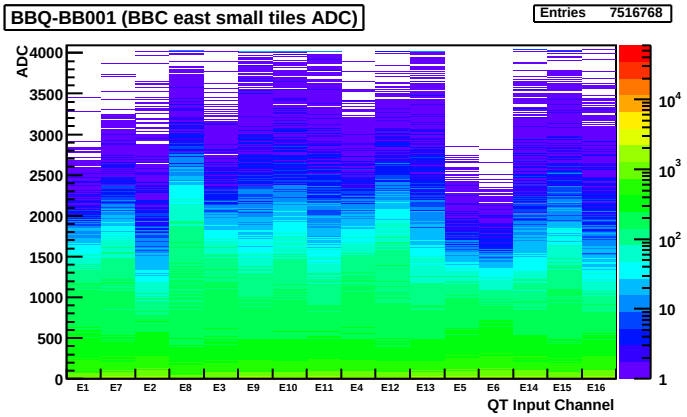

MIX-TF005
Entries 1.973152e+07
TOF MULT
TOF tray

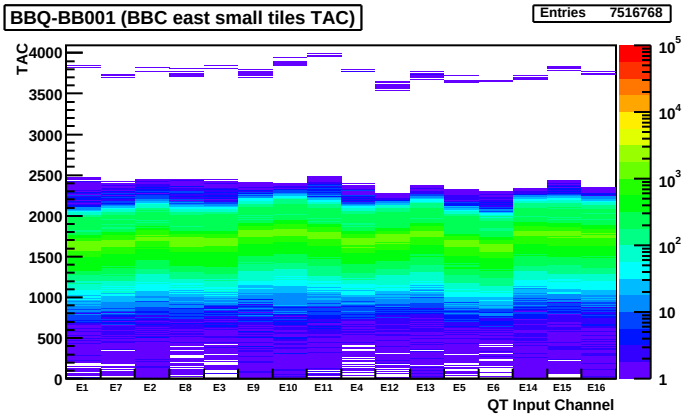

MIX-TF006
Entries 1.973152e+07
TOF MULT
TOF tray

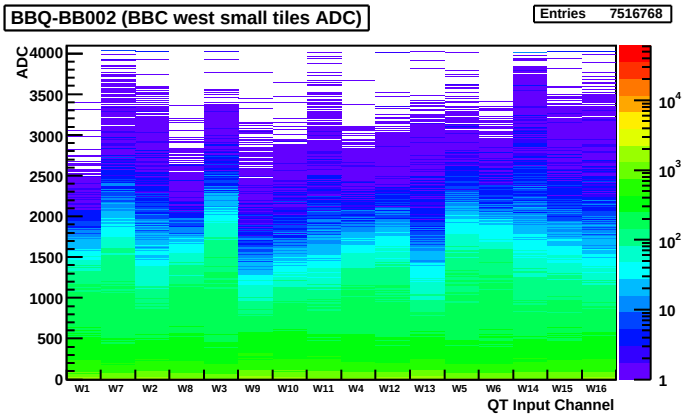

MIX-TF101
Entries 2818788
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
$10^4$

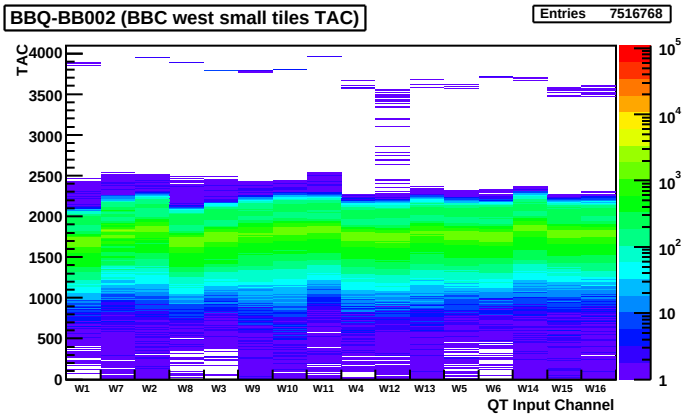

L1-TF201
Entries 469798
$10^4$
$10^3$
$10^2$
10
0
200
400
600
800
1000
1200
1400
TOF total mult

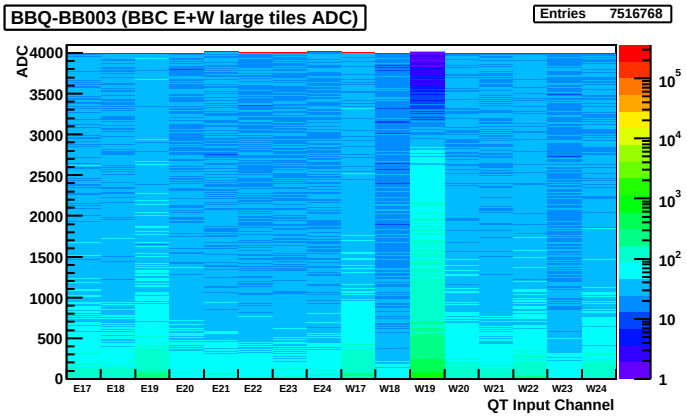

L1-TF201
Entries 2818788
Threshold bits
1
0
446748
445627
445457
446752
444889
444727
23050
24171
24341
23046
24909
25071
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
$10^5$

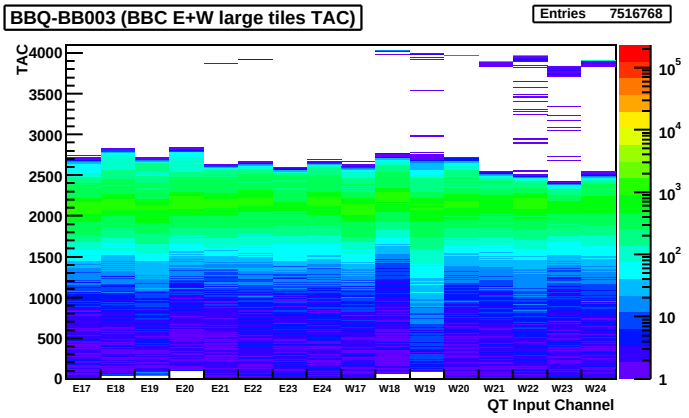

BBQ-BB001 (BBC east small tiles ADC)
Entries 7516768
ADC
QT Input Channel

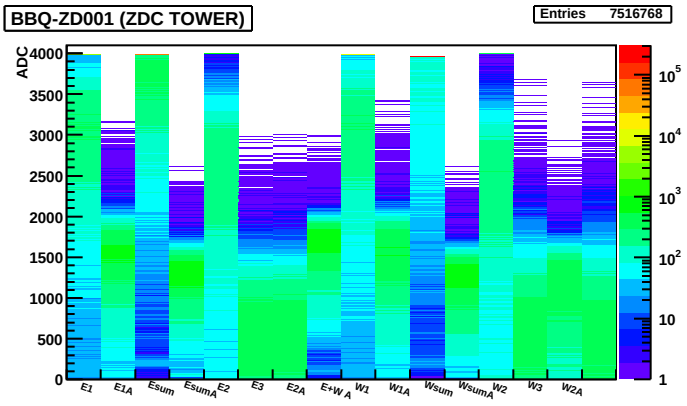

BBQ-BB001 (BBC east small tiles TAC)
Entries 7516768
TAC
QT Input Channel

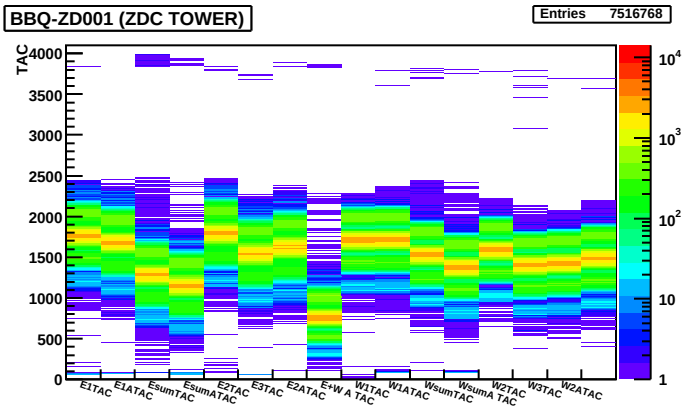

BBQ-BB002 (BBC west small tiles ADC)
Entries 7516768
ADC
QT Input Channel

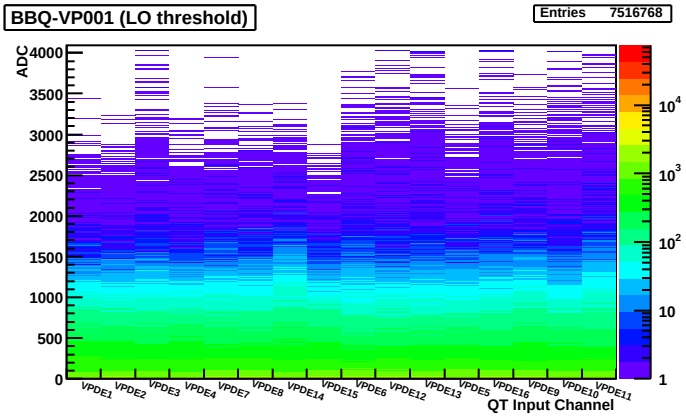

BBQ-BB002 (BBC west small tiles TAC)
Entries 7516768
TAC
QT Input Channel

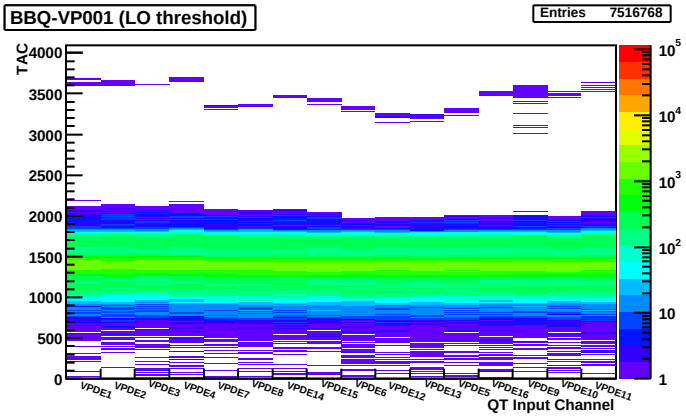

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7516768
ADC
QT Input Channel

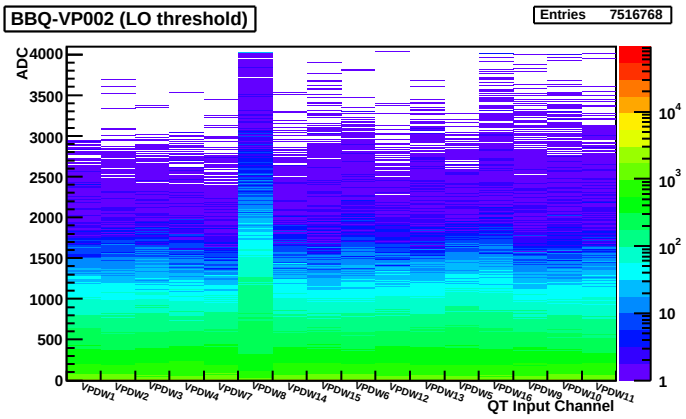

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7516768
TAC
QT Input Channel

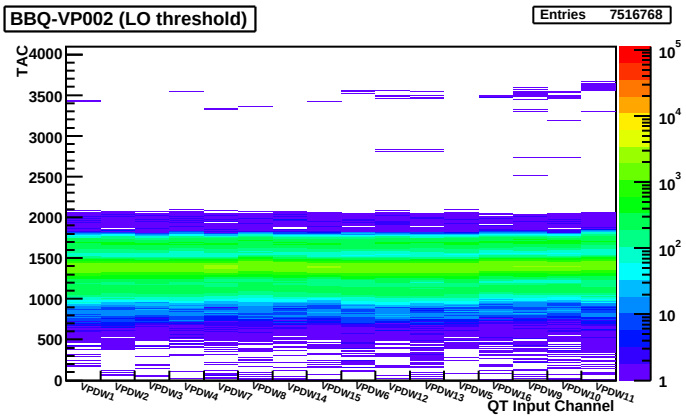

BBQ-ZD001 (ZDC TOWER)
Entries 7516768
ADC

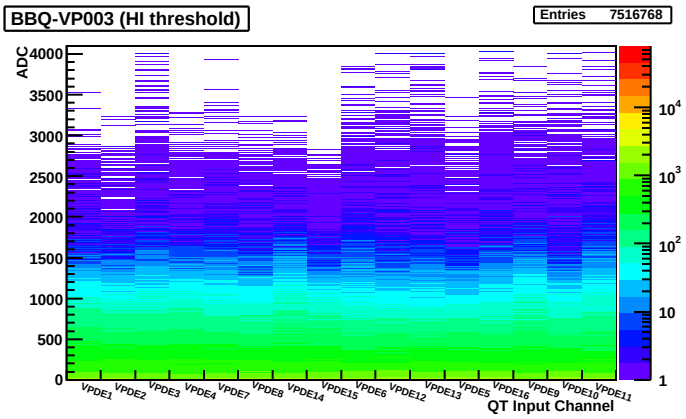

BBQ-ZD001 (ZDC TOWER)
Entries 7516768
TAC

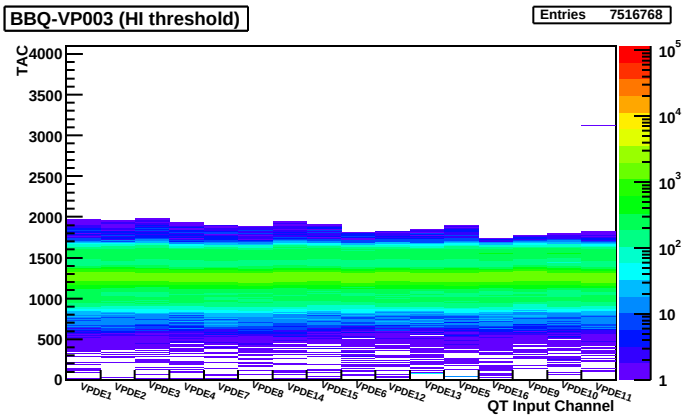

BBQ-VP001 (LO threshold)
Entries 7516768
ADC
QT Input Channel

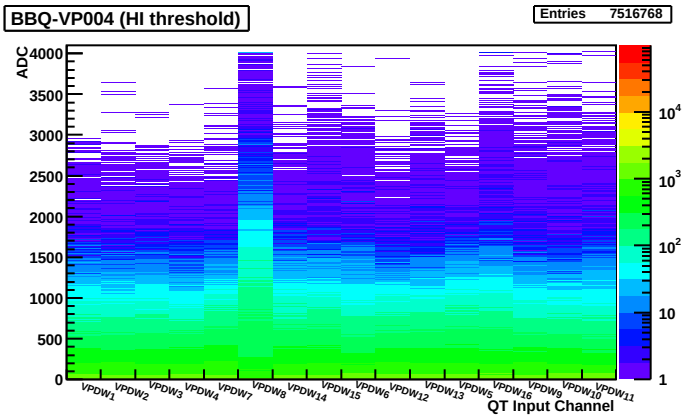

BBQ-VP001 (LO threshold)
Entries 7516768
TAC
QT Input Channel

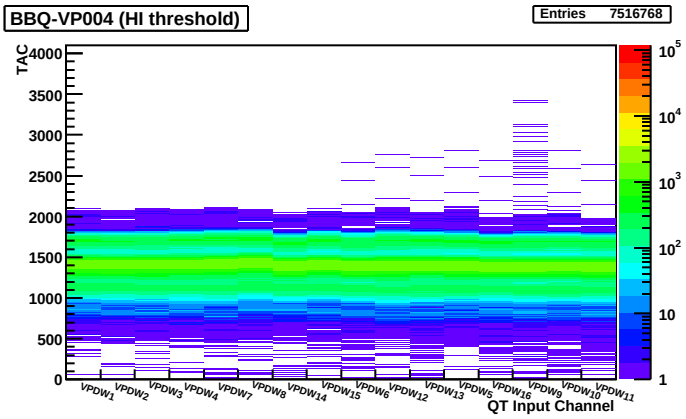

BBQ-VP002 (LO threshold)
Entries 7516768
ADC
QT Input Channel

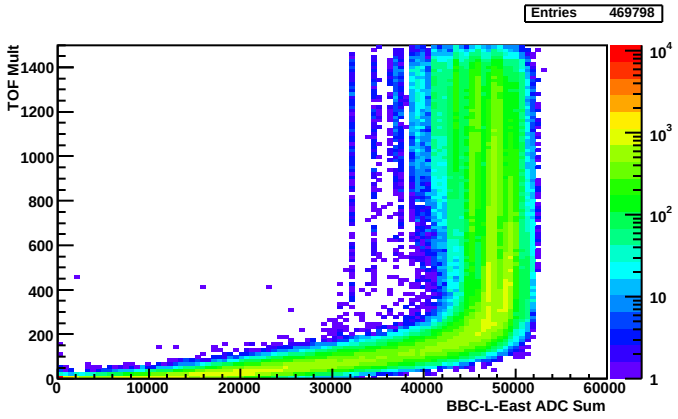

BBQ-VP002 (LO threshold)
Entries 7516768
TAC
QT Input Channel

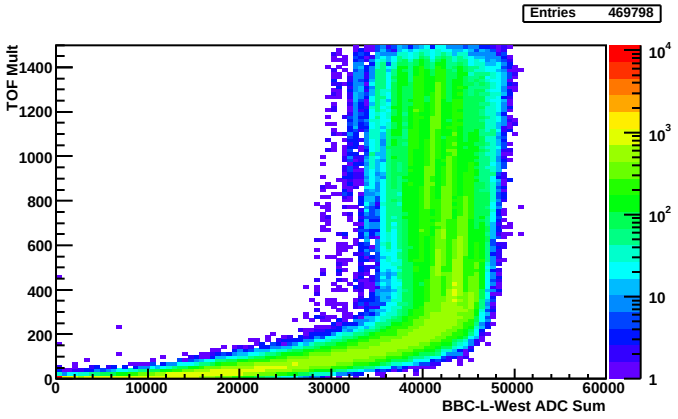

BBQ-VP003 (HI threshold)
Entries 7516768
ADC
QT Input Channel

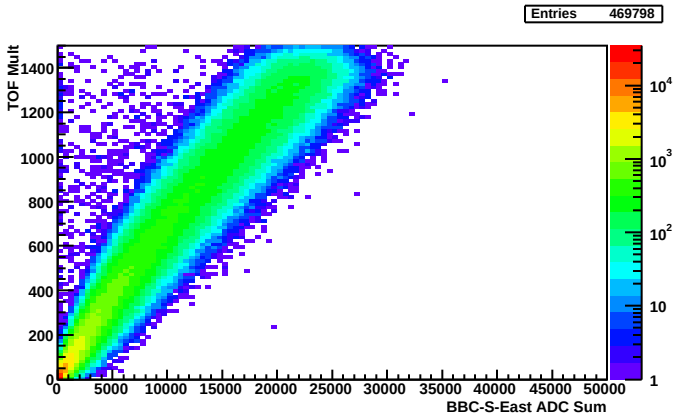

BBQ-VP003 (HI threshold)
Entries 7516768
TAC
QT Input Channel

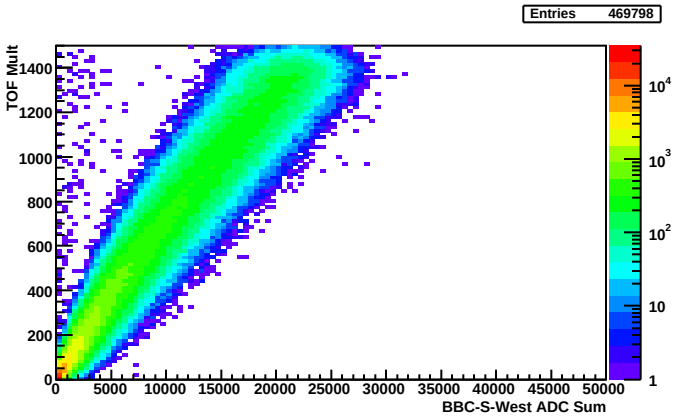

BBQ-VP004 (HI threshold)
Entries 7516768
ADC
QT Input Channel

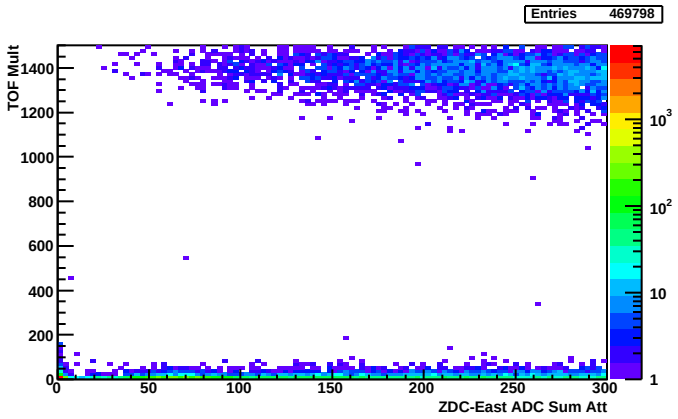

BBQ-VP004 (HI threshold)
Entries 7516768
TAC
QT Input Channel

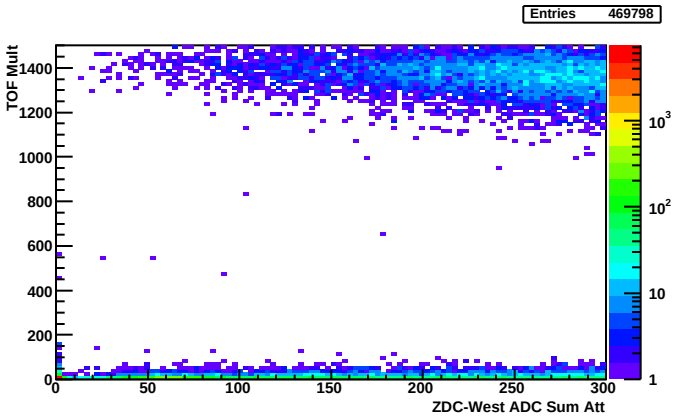

Entries 469798
TOF Mult
BBC-L-East ADC Sum

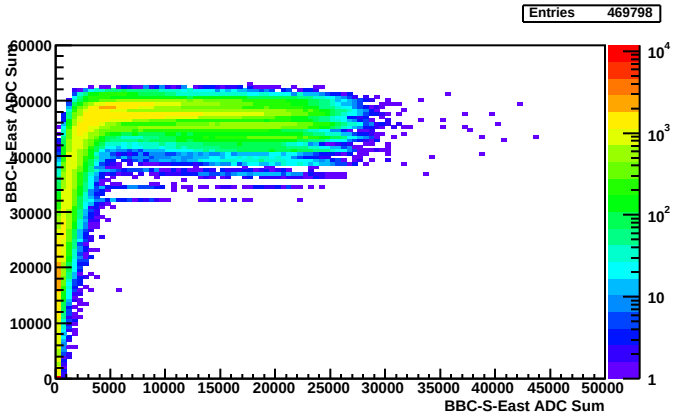

Entries 469798
TOF Mult
BBC-L-West ADC Sum

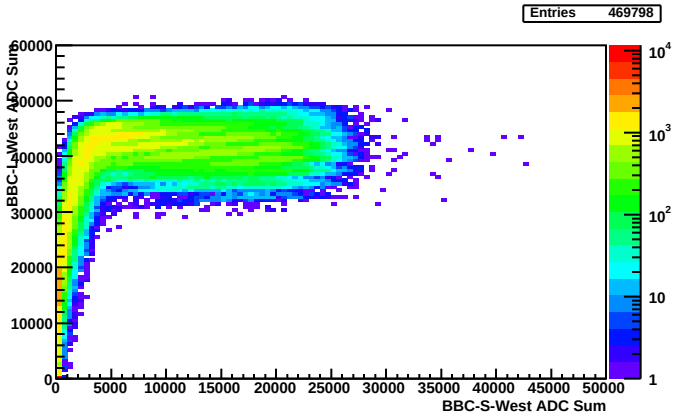

Entries 469798
TOF Mult
BBC-S-East ADC Sum

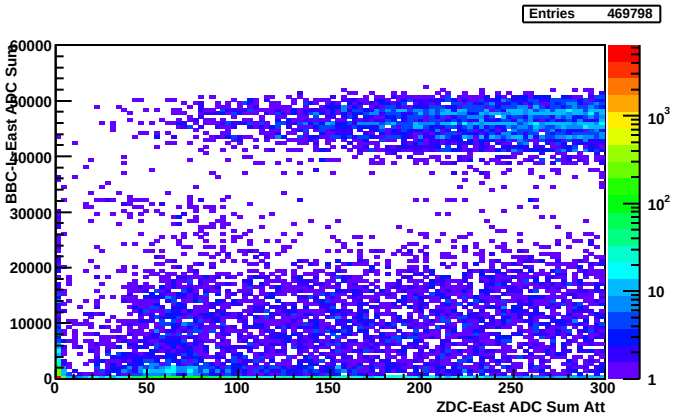

Entries 469798
TOF Mult
BBC-S-West ADC Sum

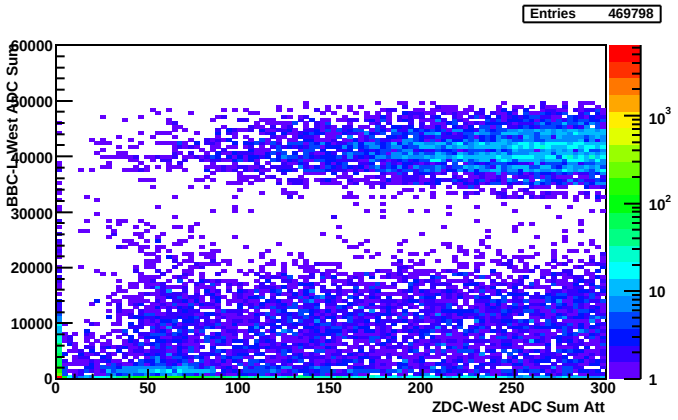

Entries 469798
TOF Mult
ZDC-East ADC Sum Att


Entries 469798
TOF Mult
ZDC-West ADC Sum Att


Entries 469798
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 469798
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 469798
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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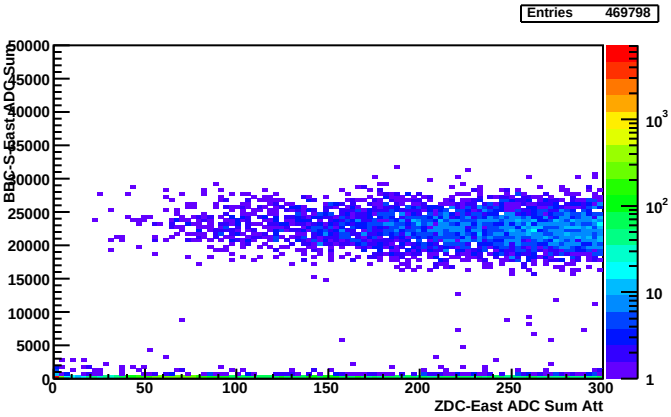
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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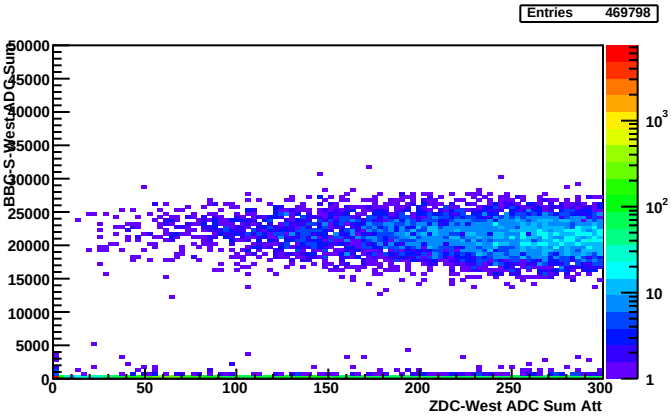
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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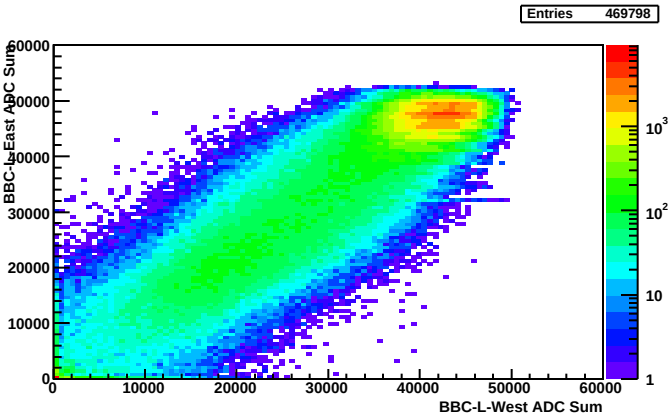
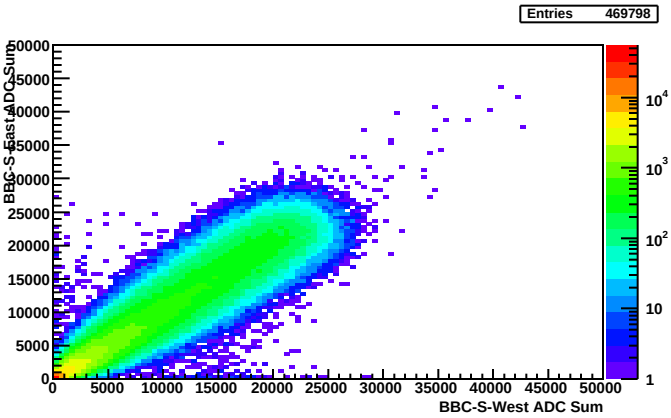
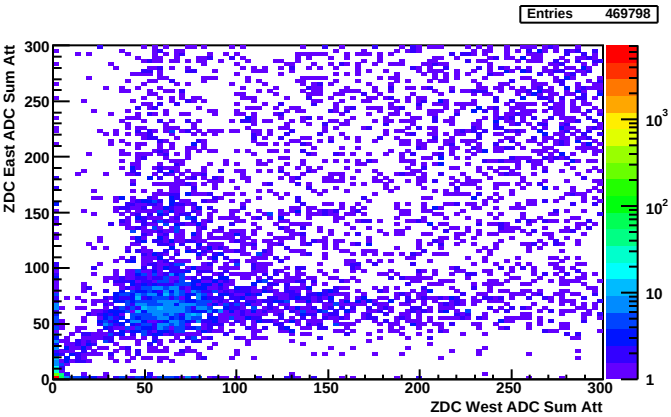
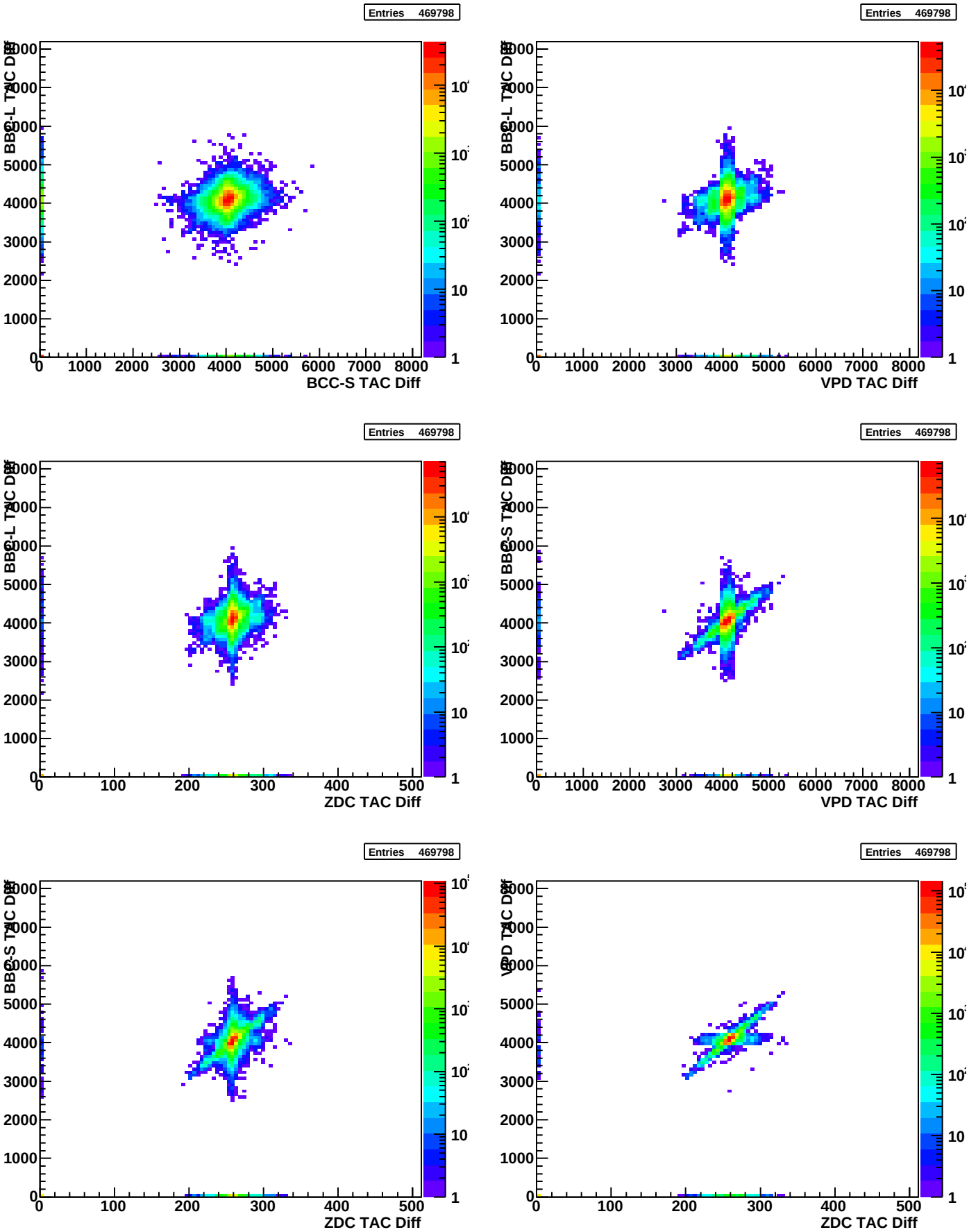
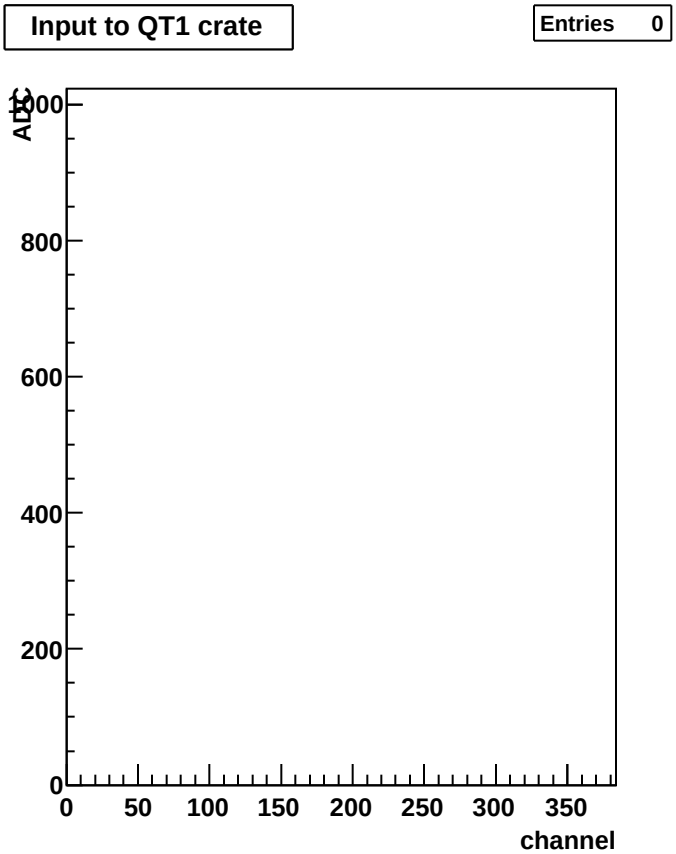
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

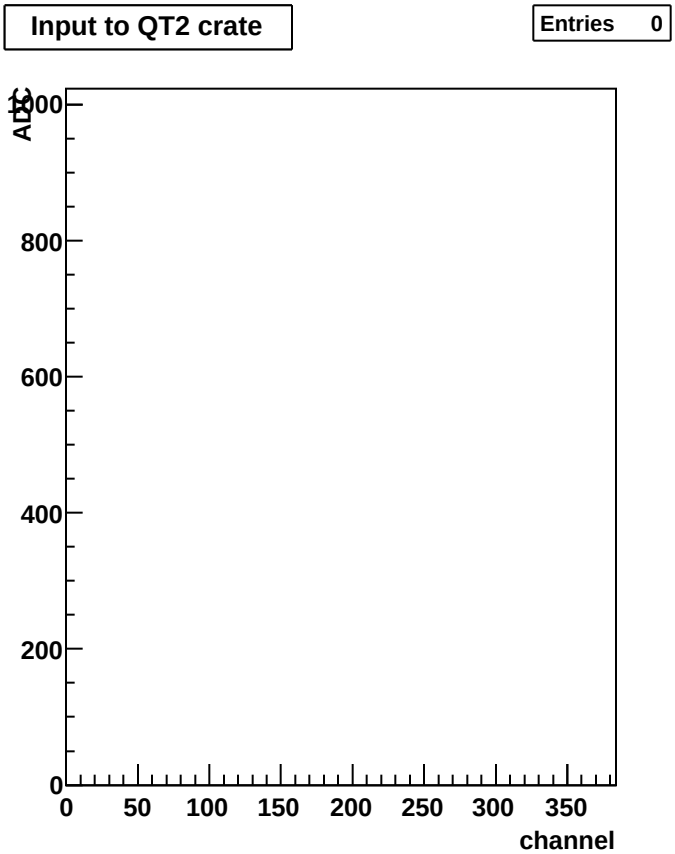

Entries 469798
BBC-L-East ADC Sum
BBC-L-West ADC Sum

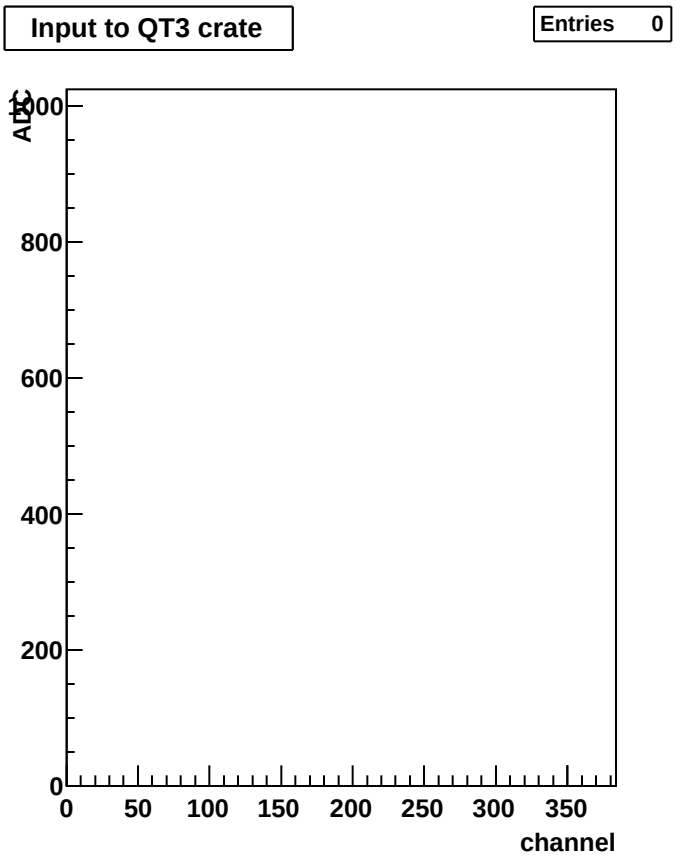

Entries 469798
BBC-S-East ADC Sum
BBC-S-West ADC Sum

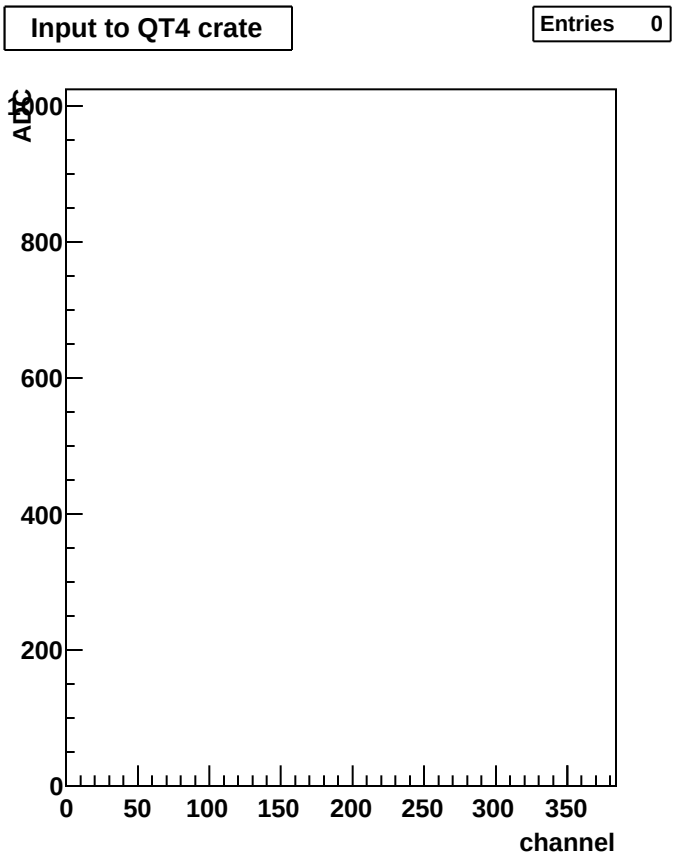

Entries 469798
ZDC East ADC Sum Att
ZDC West ADC Sum Att

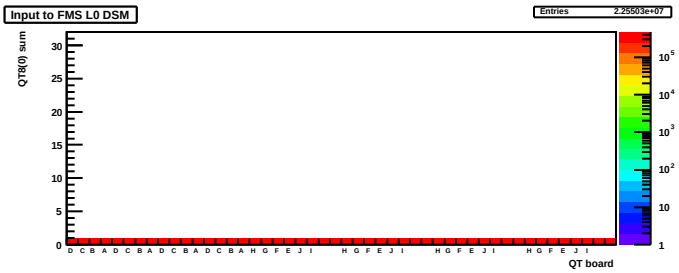

Entries 469798
BBC-L TAC Diff
BCC-S TAC Diff
Entries 469798
BBC-L TAC Diff
VPD TAC Diff
Entries 469798
BBC-L TAC Diff
ZDC TAC Diff
Entries 469798
BBC-S TAC Diff
VPD TAC Diff
Entries 469798
BBC-S TAC Diff
ZDC TAC Diff
Entries 469798
VPD TAC Diff
ZDC TAC Diff

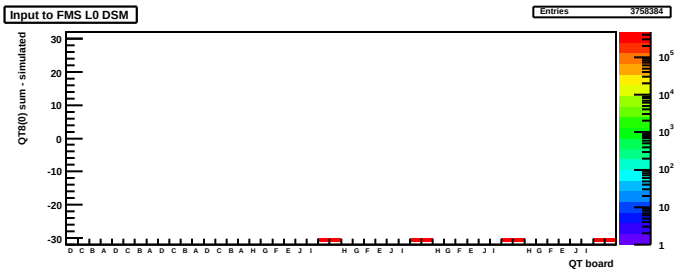

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

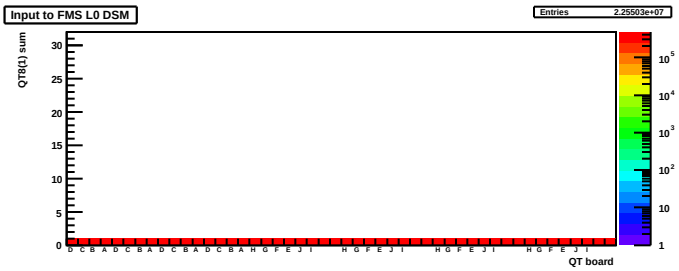

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

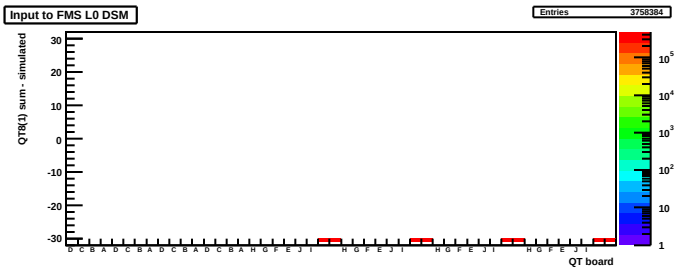

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

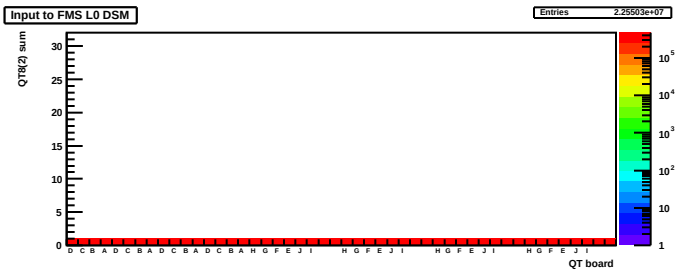

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

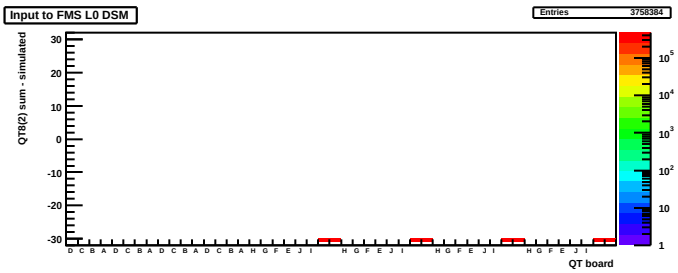

Input to FMS L0 DSM
Entries 2.25503e+07
QT8(0) sum
QT board

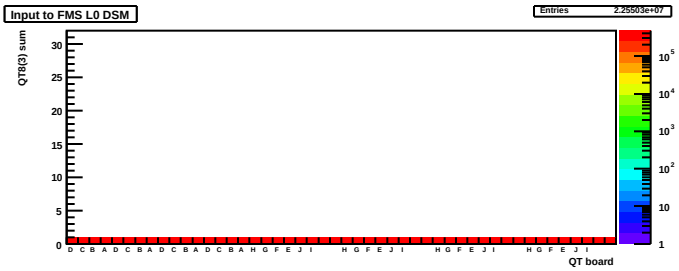

Input to FMS L0 DSM
Entries 3758384
QT8(0) sum - simulated
QT board

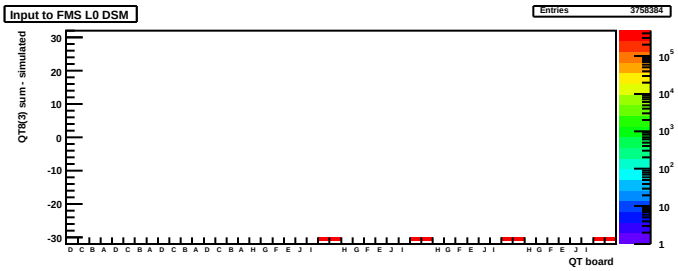

Input to FMS L0 DSM
Entries 2.25503e+07
QT8(1) sum
QT board

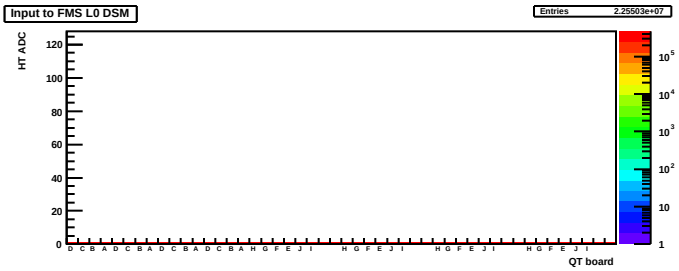

Input to FMS L0 DSM
Entries 3758384
QT8(1) sum - simulated
QT board

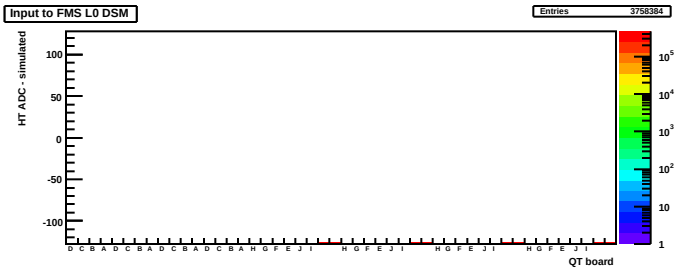

Input to FMS L0 DSM
Entries 2.25503e+07
QT8(2) sum
QT board

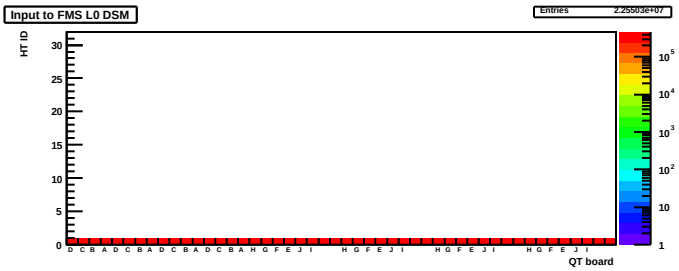

Input to FMS L0 DSM
Entries 3758384
QT8(2) sum - simulated
QT board

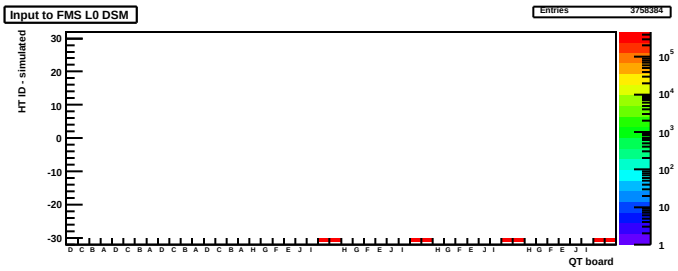

Input to FMS L0 DSM
Entries 2.25503e+07
QT8(3) sum
QT board

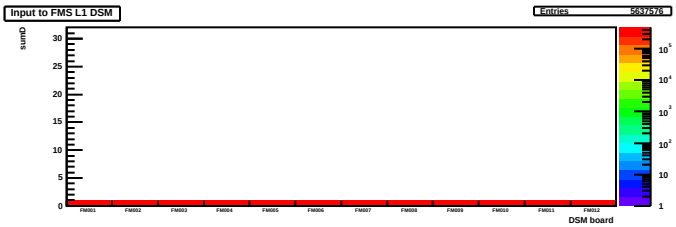

Input to FMS L0 DSM
Entries 3758384
QT8(3) sum - simulated
QT board

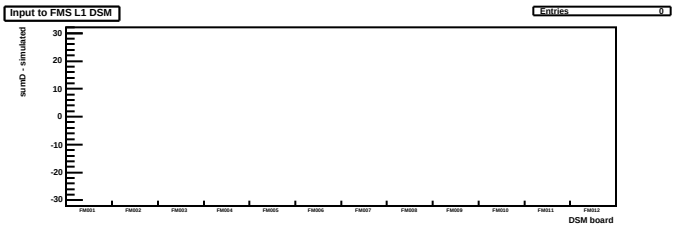

Input to FMS L0 DSM
Entries 2.25503e+07
HT ADC
QT board

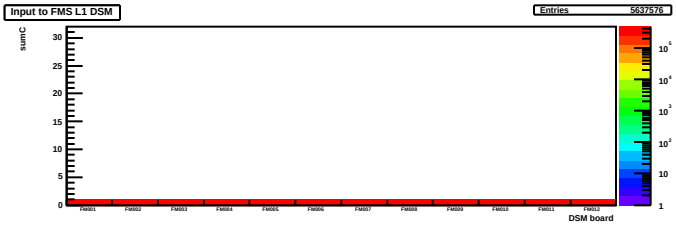

Input to FMS L0 DSM
Entries 3758384
HT ADC - simulated
QT board

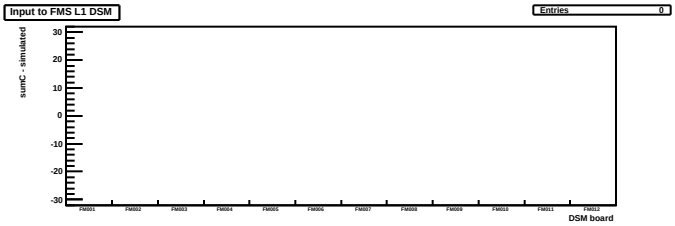

Input to FMS L0 DSM
Entries 2.25503e+07
HT ID
QT board

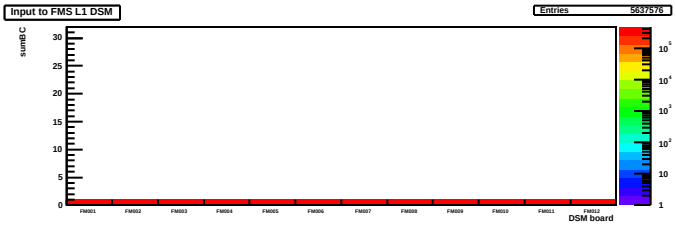

Input to FMS L0 DSM
Entries 3758384
HT ID - simulated
QT board

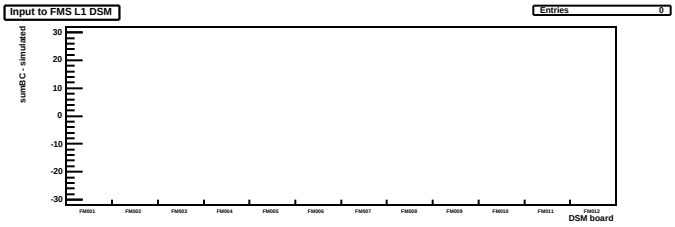

Input to FMS L1 DSM
Entries 5637576
sumD
DSM board

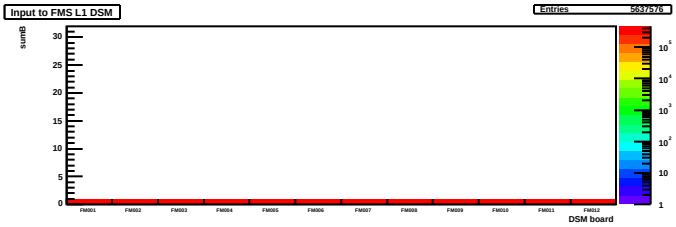

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

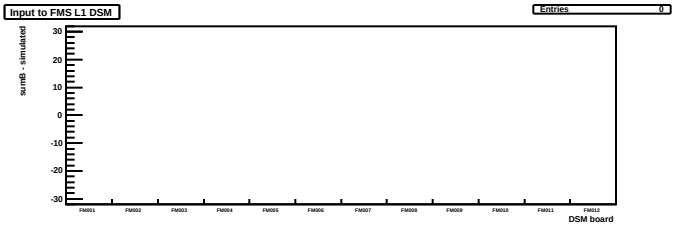

Input to FMS L1 DSM
Entries 5637576
sumC
DSM board

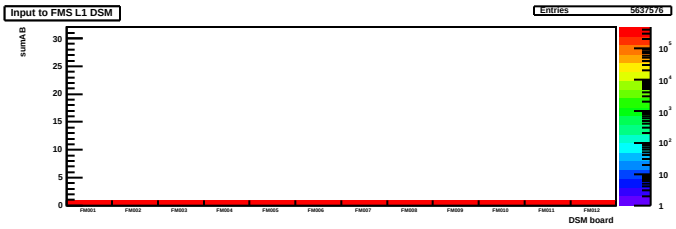

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

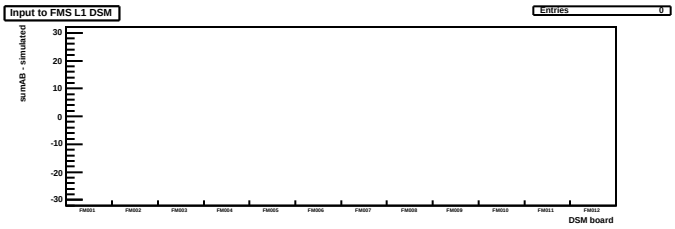

Input to FMS L1 DSM
Entries 5637576
sumBC
DSM board

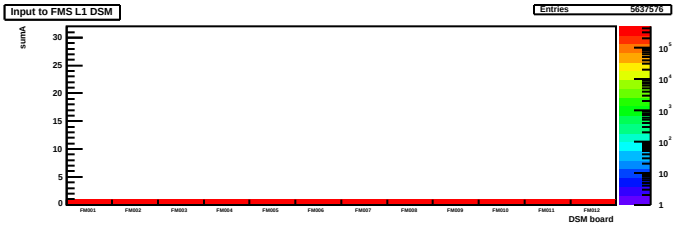

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

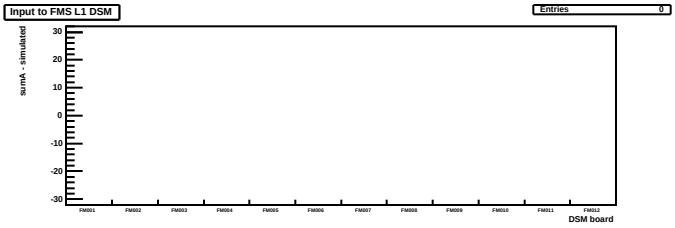

Input to FMS L1 DSM
Entries 5637576
sumB
DSM board

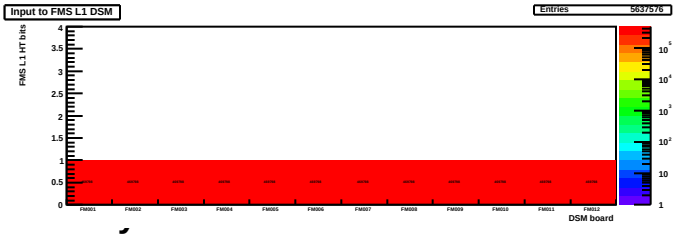

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

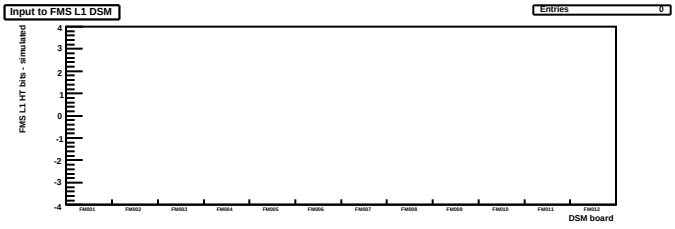

Input to FMS L1 DSM
Entries 5637576
sumAB
DSM board

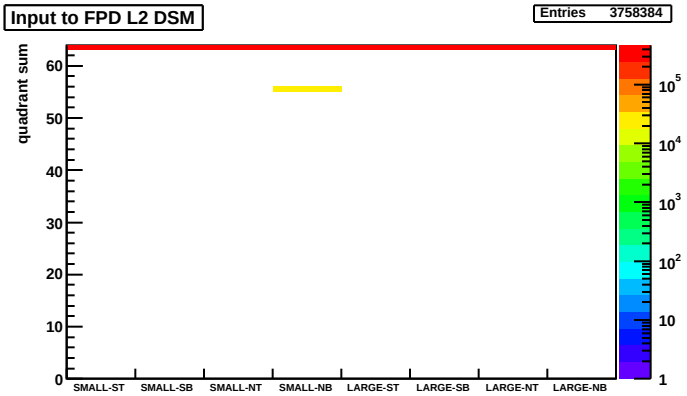

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

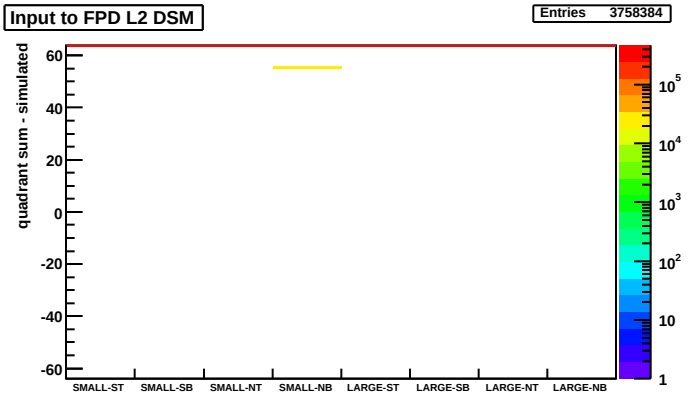

Input to FMS L1 DSM
Entries 5637576
sumA
DSM board

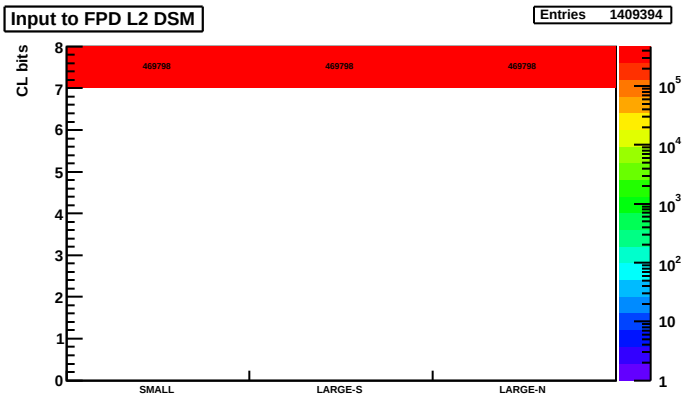

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

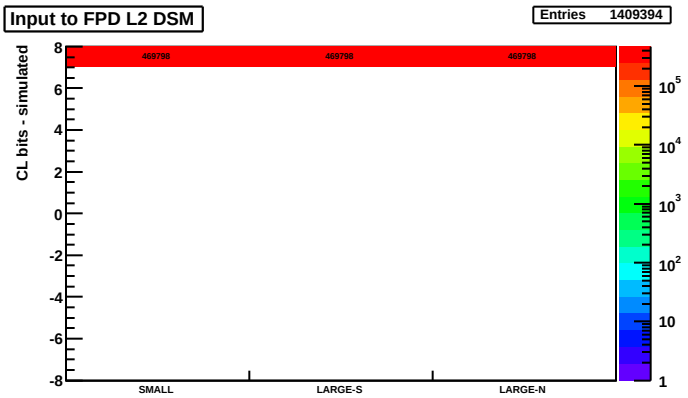

Input to FMS L1 DSM
Entries 5637576
FMS L1 HT bits
DSM board

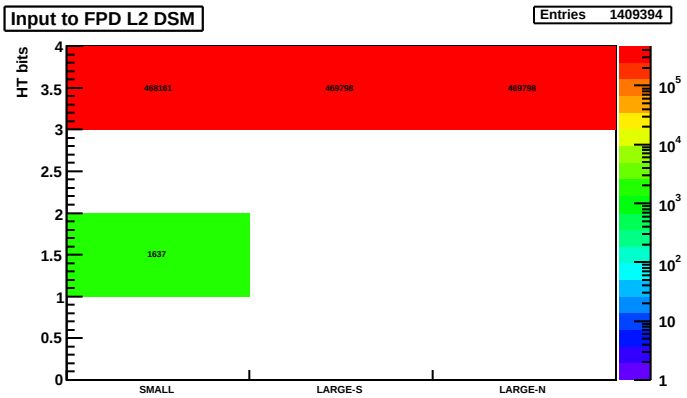

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

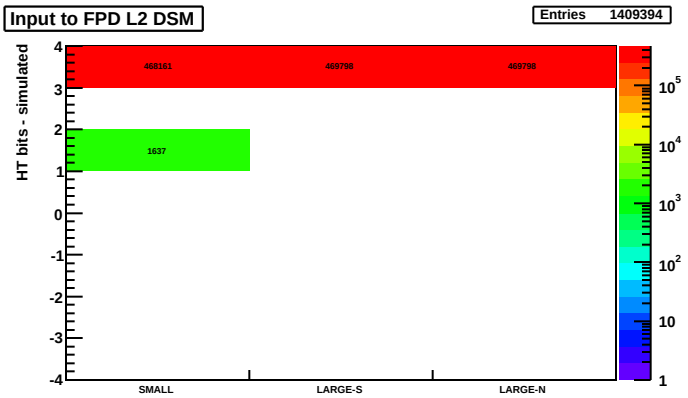

Input to FPD L2 DSM
Entries 3758384
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

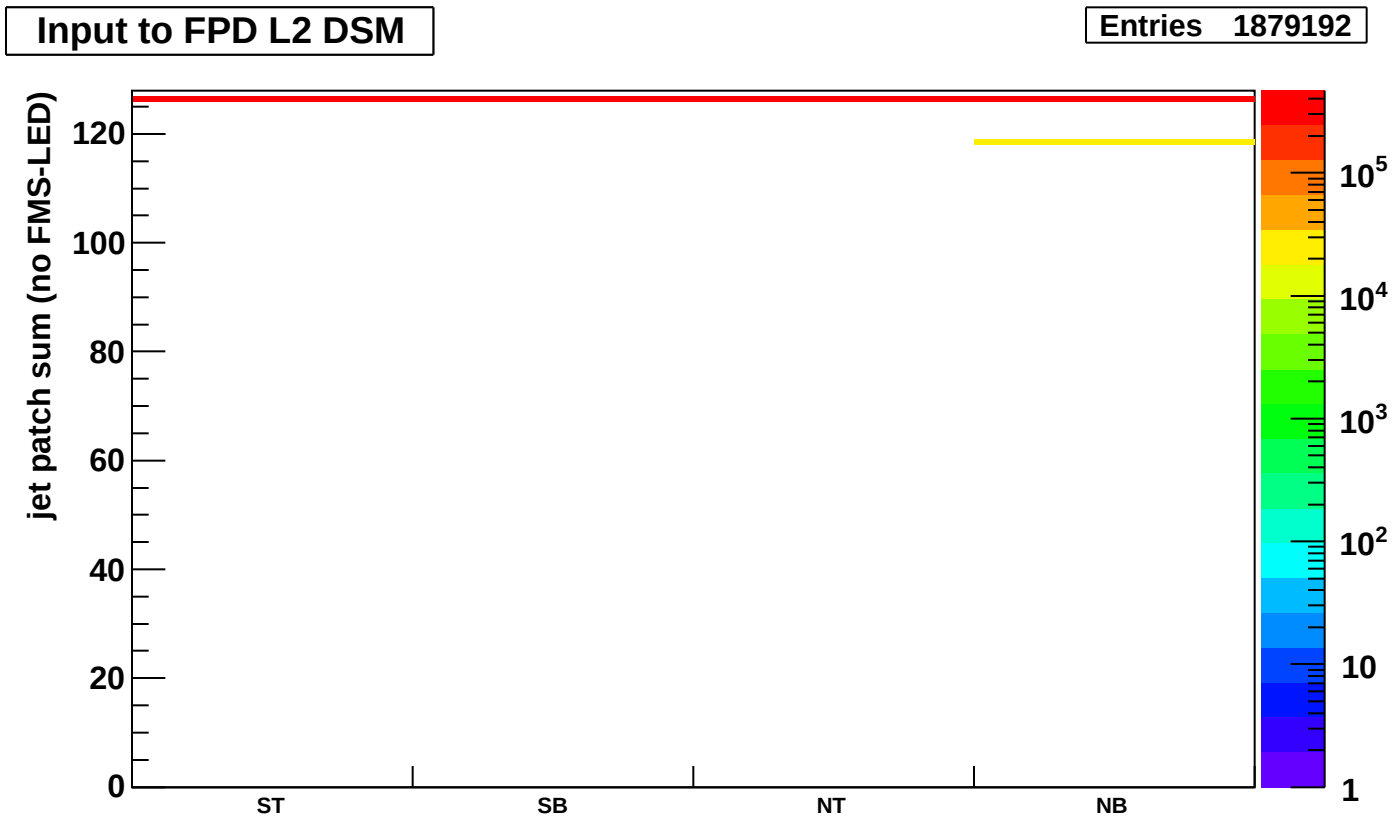

Input to FPD L2 DSM
Entries 3758384
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

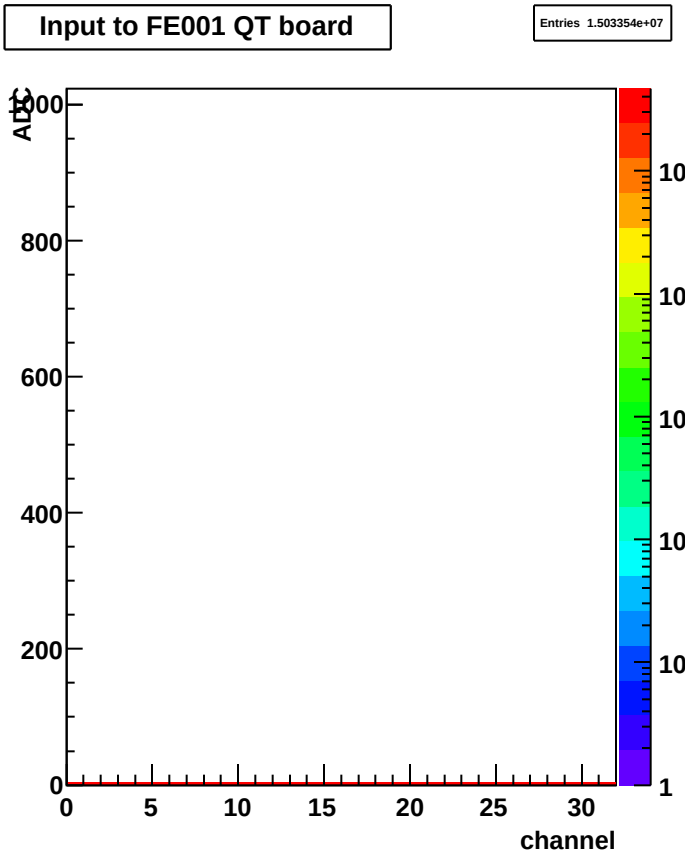

Input to FPD L2 DSM
Entries 1409394
CL bits
469798
469798
469798
SMALL
LARGE-S
LARGE-N

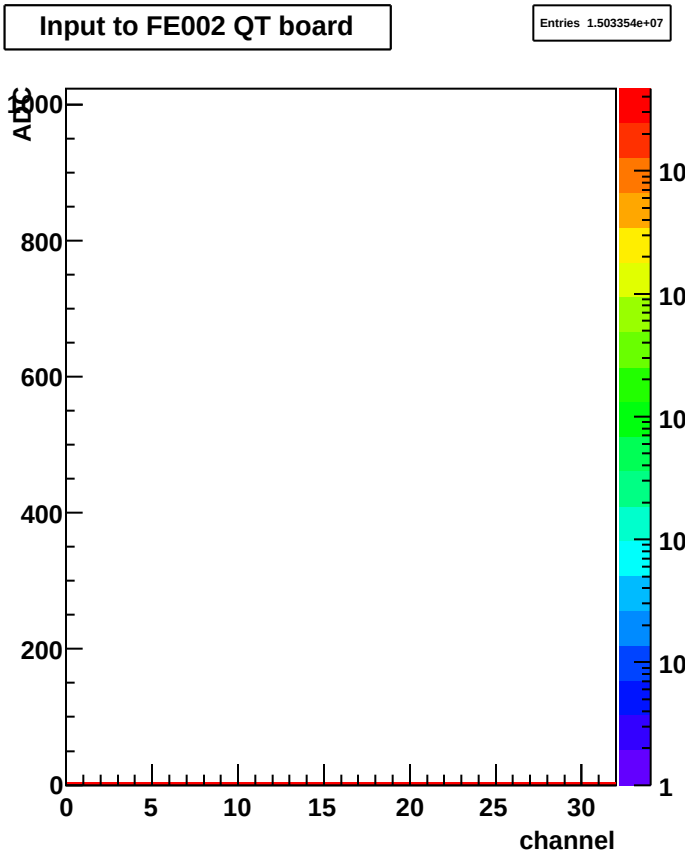

Input to FPD L2 DSM
Entries 1409394
CL bits - simulated
469798
469798
469798
SMALL
LARGE-S
LARGE-N

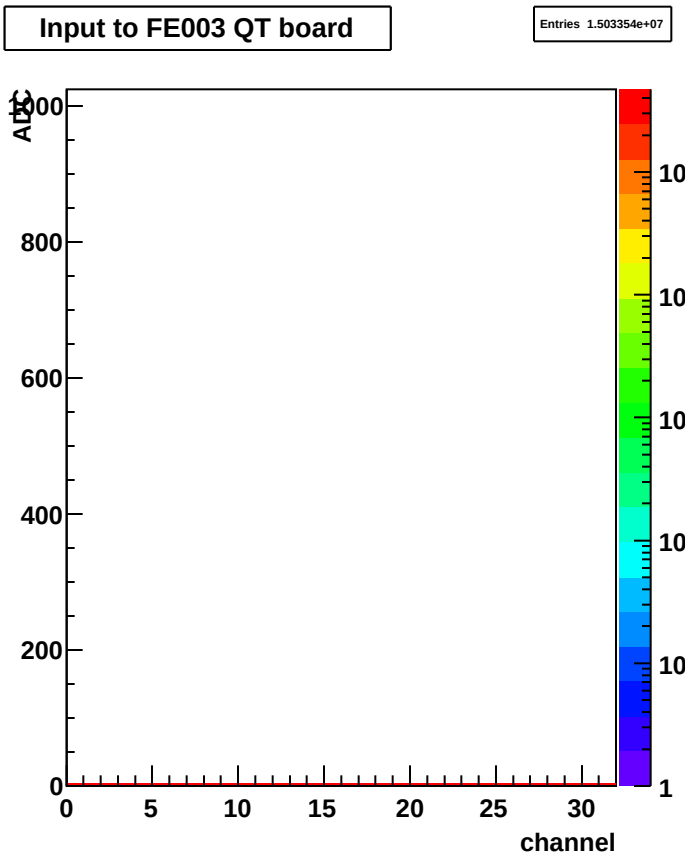

Input to FPD L2 DSM
Entries 1409394
HT bits
468161
469798
469798
1637
SMALL
LARGE-S
LARGE-N

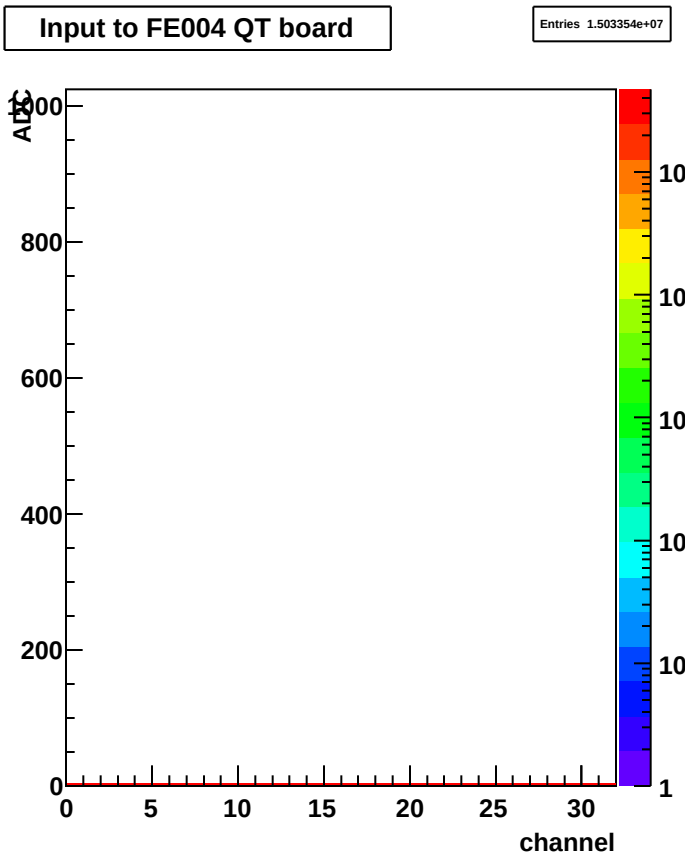

Input to FPD L2 DSM
Entries 1409394
HT bits - simulated
468161
469798
469798
1637
SMALL
LARGE-S
LARGE-N

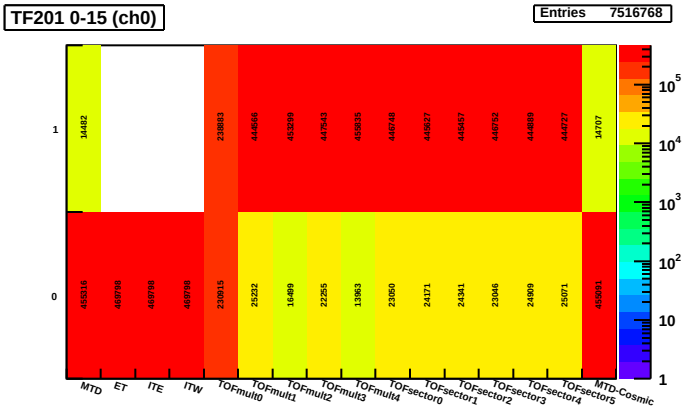

Input to FPD L2 DSM
Entries 1879192
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
$10^2$
$10^3$
$10^4$
$10^5$

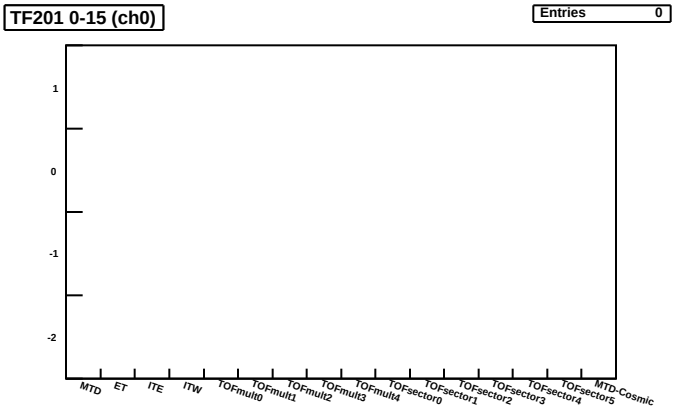

Input to FE001 QT board
Entries 1.503354e+07
ADC
channel

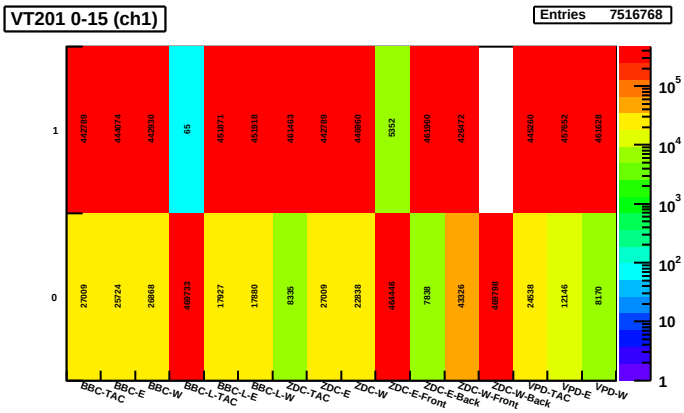

Input to FE002 QT board
Entries 1.503354e+07
ADC
channel

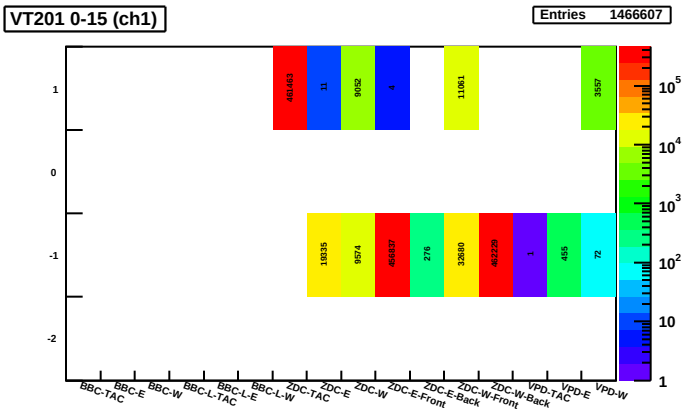

Input to FE003 QT board
Entries 1.503354e+07
ADC
channel

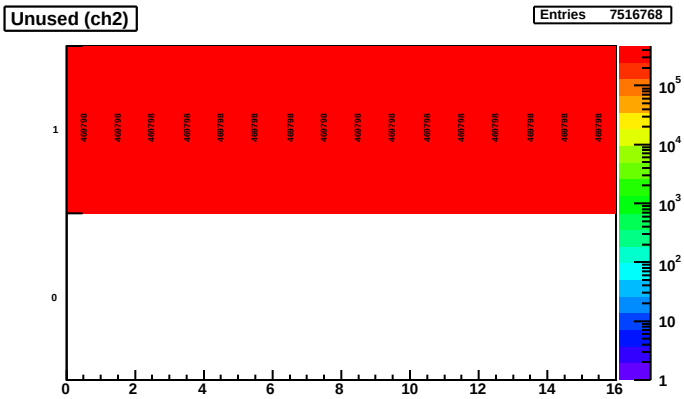

Input to FE004 QT board
Entries 1.503354e+07
ADC
channel

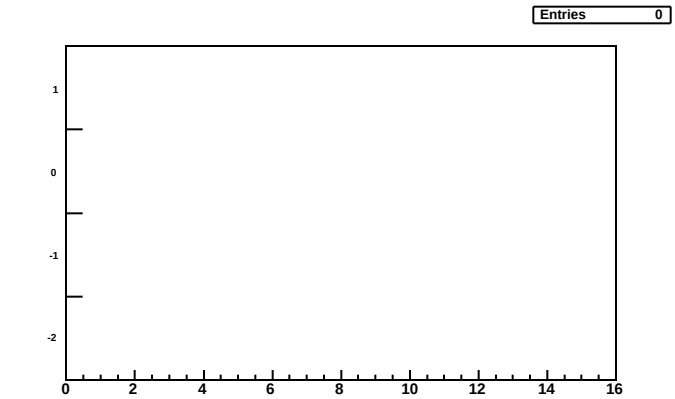

TF201 0-15 (ch0)
Entries 7516768
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

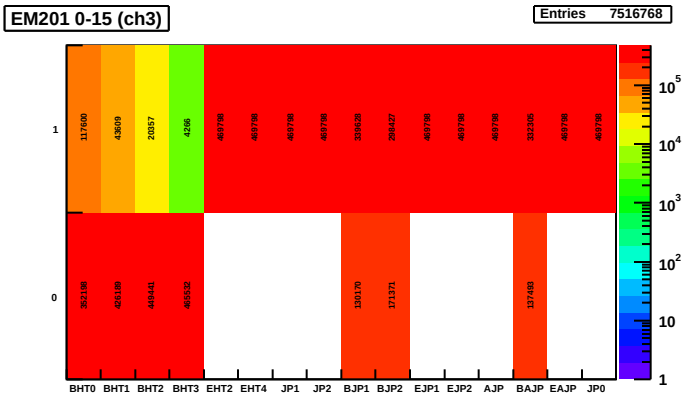

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

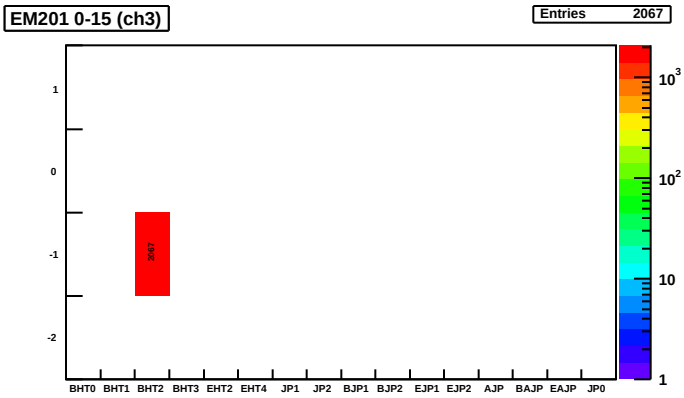

VT201 0-15 (ch1)
Entries 7516768
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

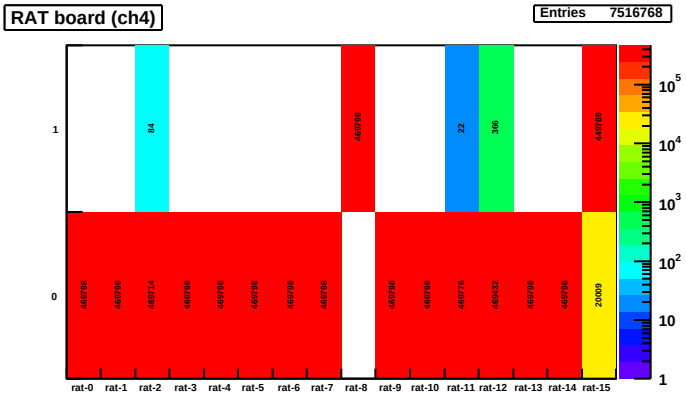

VT201 0-15 (ch1)
Entries 1466607
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

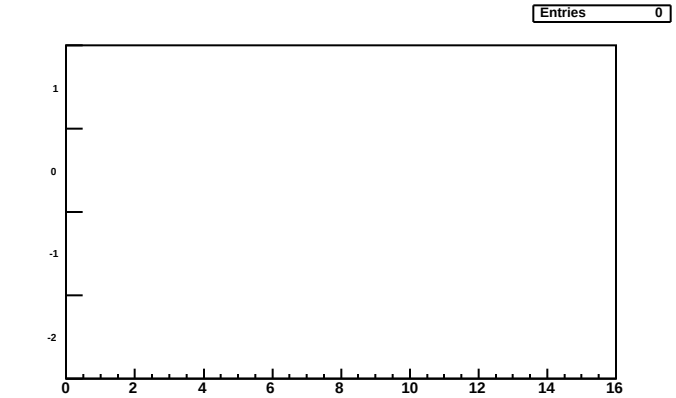

Unused (ch2)
Entries 7516768

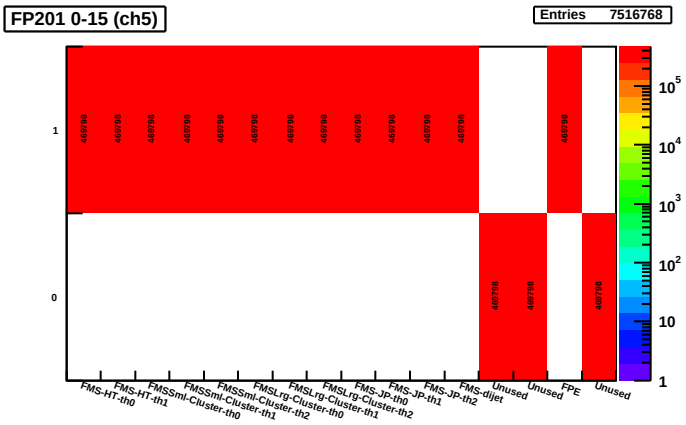

Entries 0

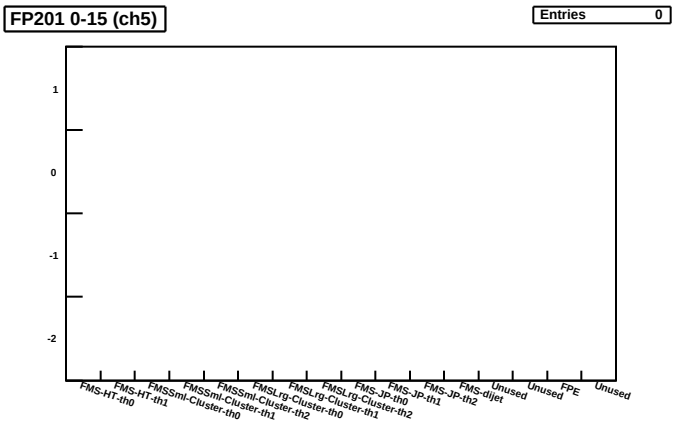

EM201 0-15 (ch3)
Entries 7516768
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

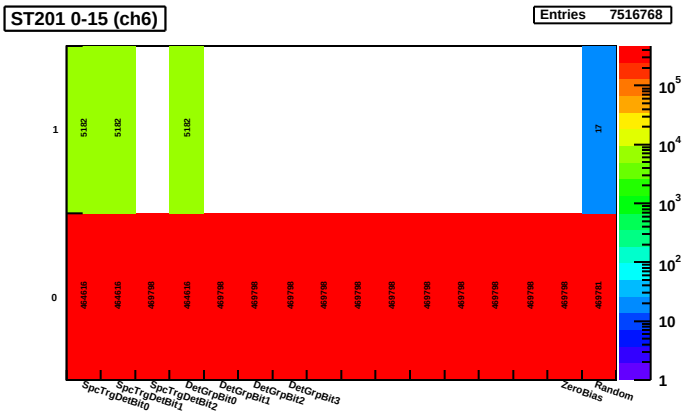

EM201 0-15 (ch3)
Entries 2067
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

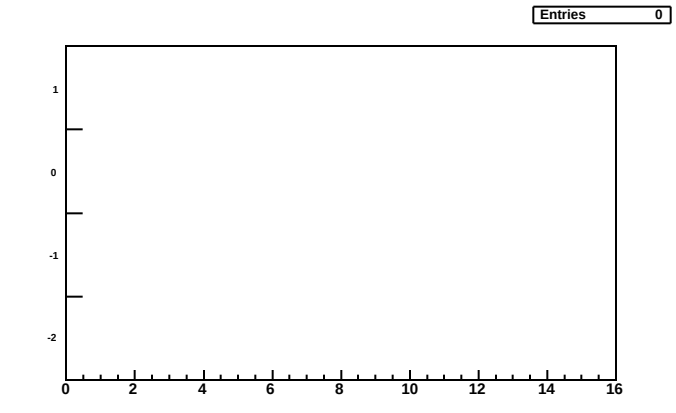

RAT board (ch4)
Entries 7516768
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

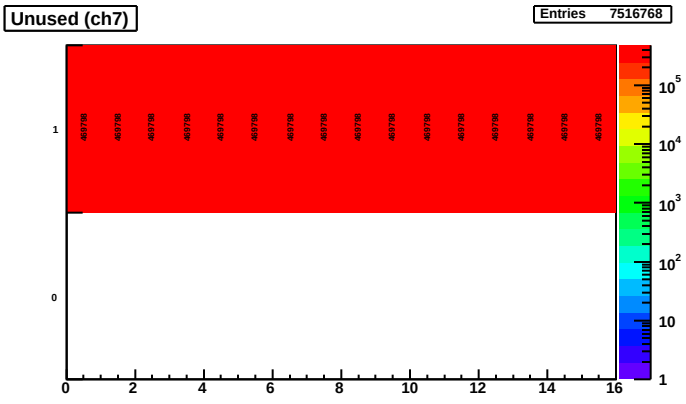

Entries 0

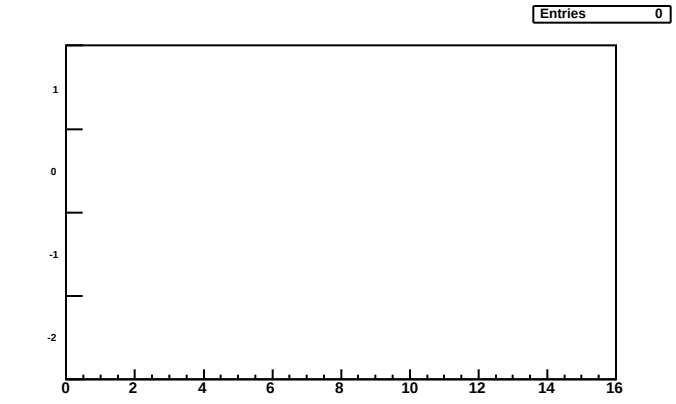

FP201 0-15 (ch5)
Entries 7516768
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
FMSSml-Cluster-th2
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMSLrg-Cluster-th2
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-dijet
Unused
Unused
FPE
Unused


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 7516768
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random


Entries 0


Unused (ch7)
Entries 7516768


Entries 0