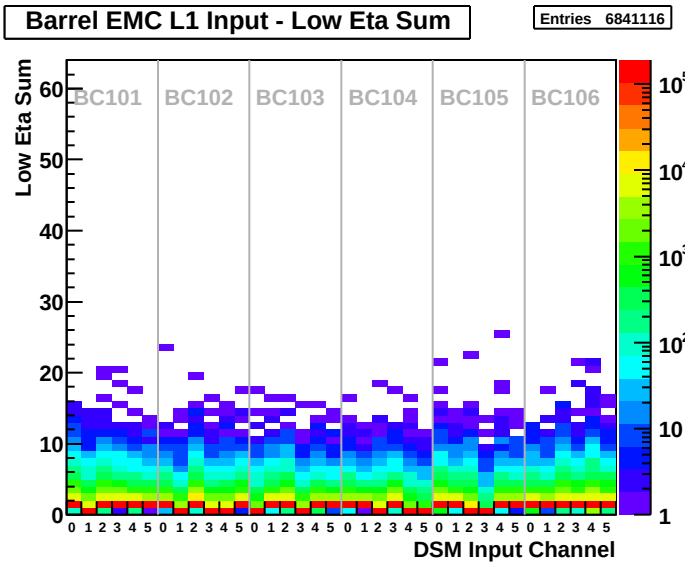
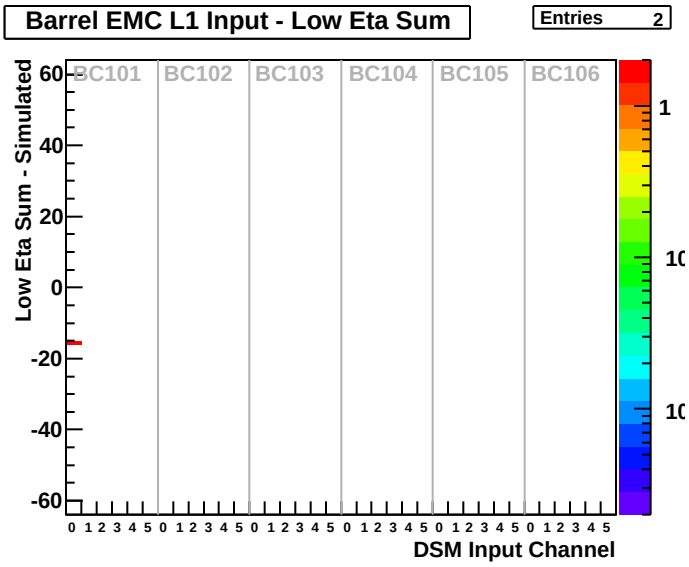
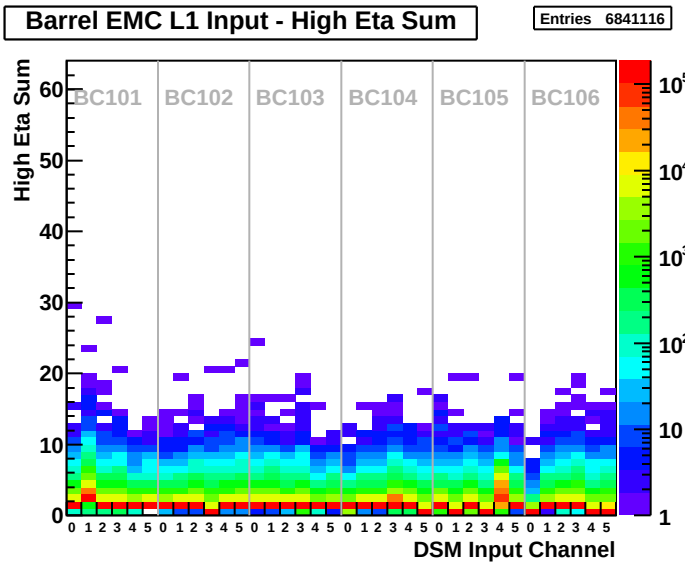
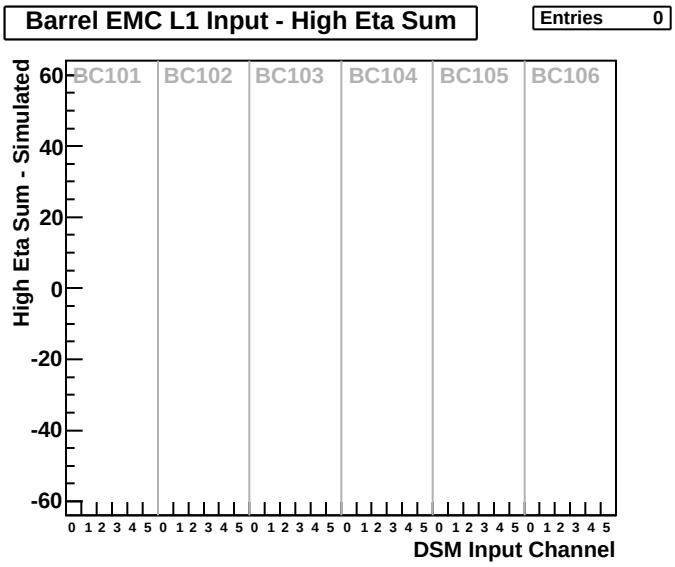
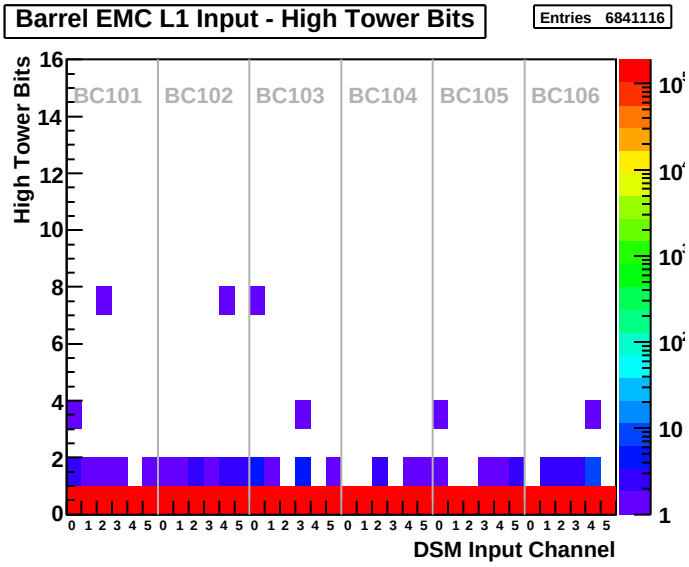
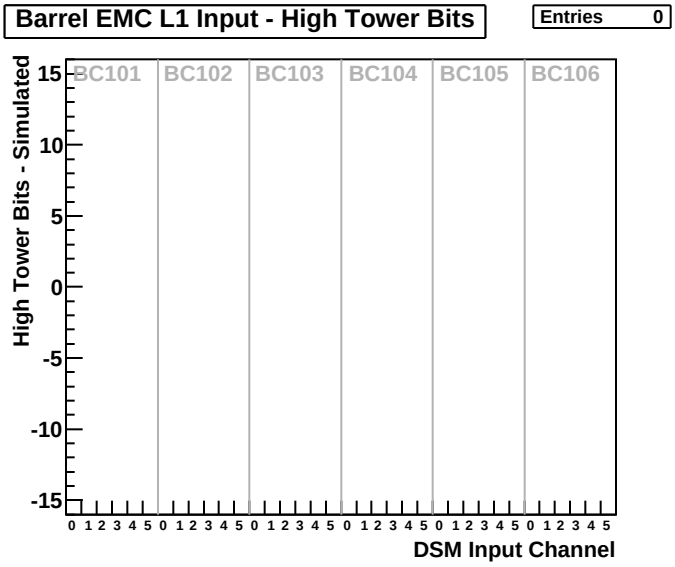

Barrel EMC L1 Input - Low Eta Sum
Entries 6841116
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

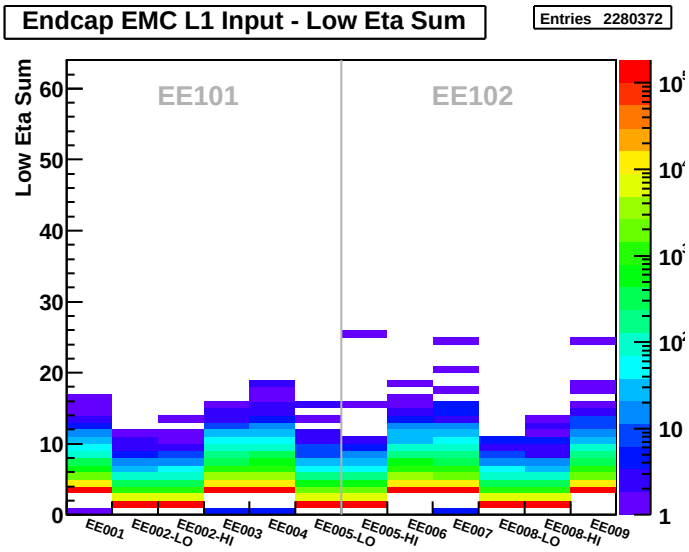

Barrel EMC L1 Input - Low Eta Sum
Entries 2
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

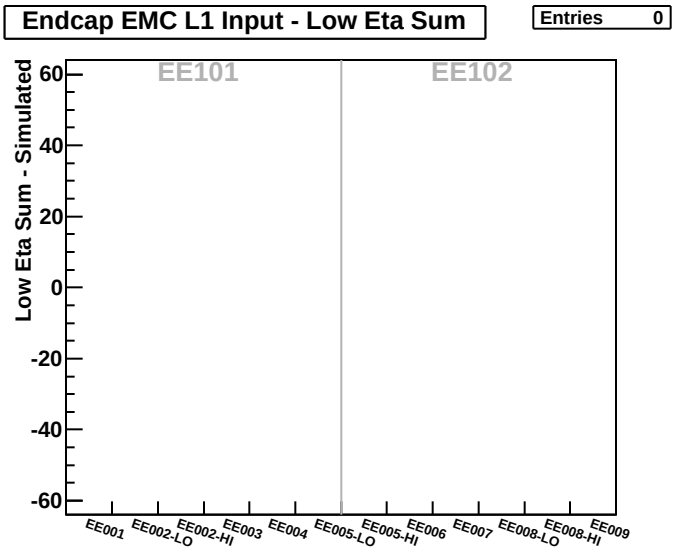

Barrel EMC L1 Input - High Eta Sum
Entries 6841116
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

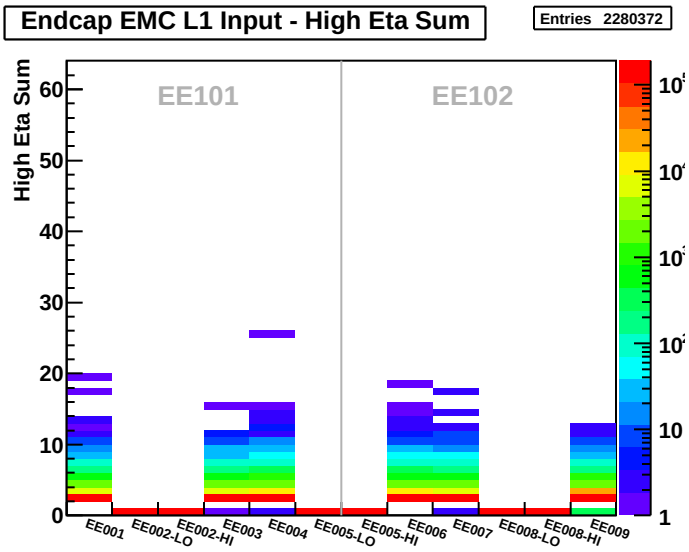

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

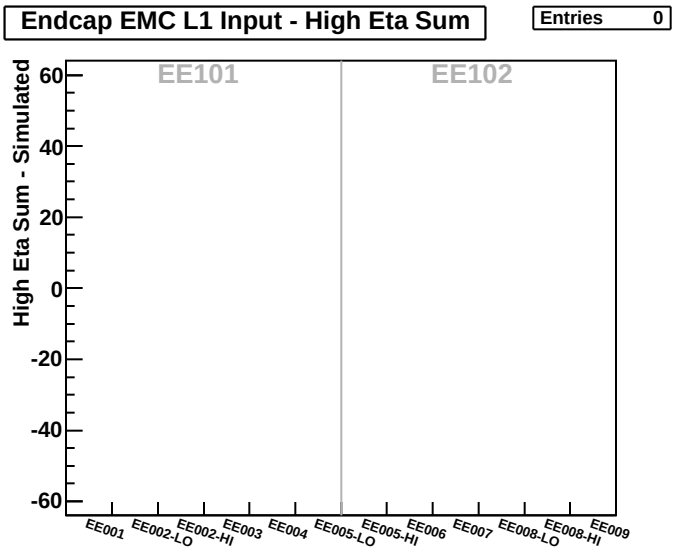

Barrel EMC L1 Input - High Tower Bits
Entries 6841116
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

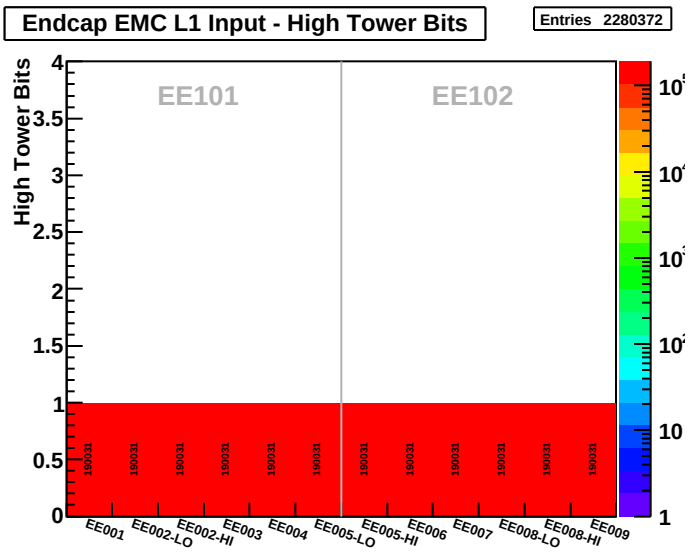

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

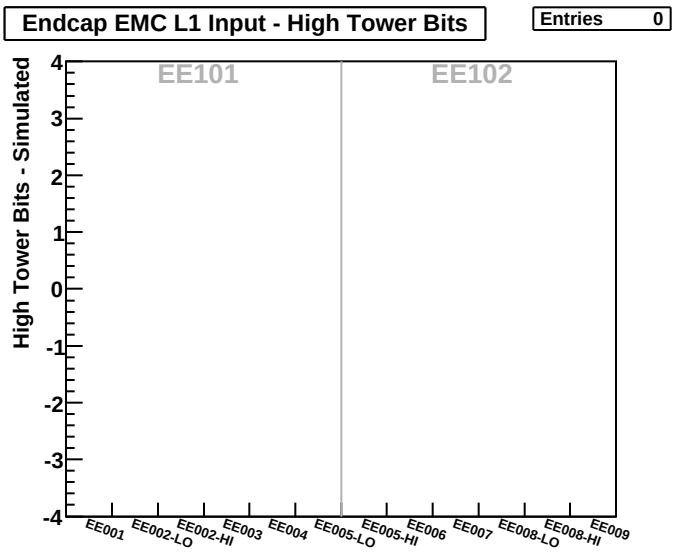

Endcap EMC L1 Input - Low Eta Sum
Entries 2280372
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

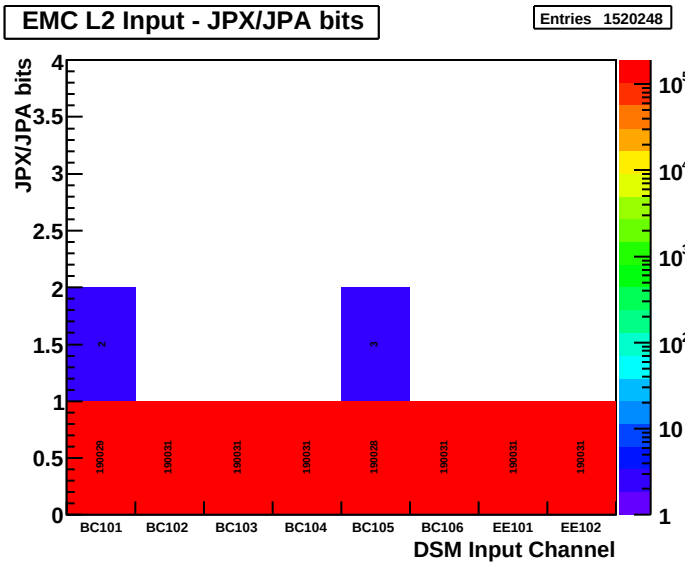

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

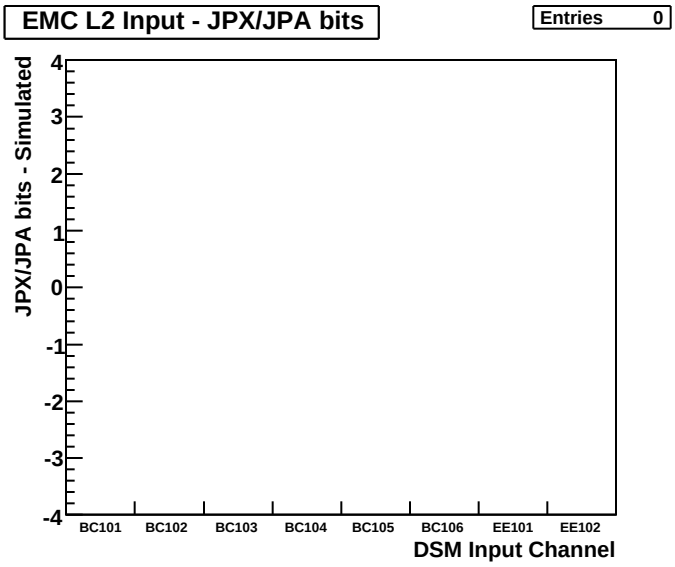

Endcap EMC L1 Input - High Eta Sum
Entries 2280372
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

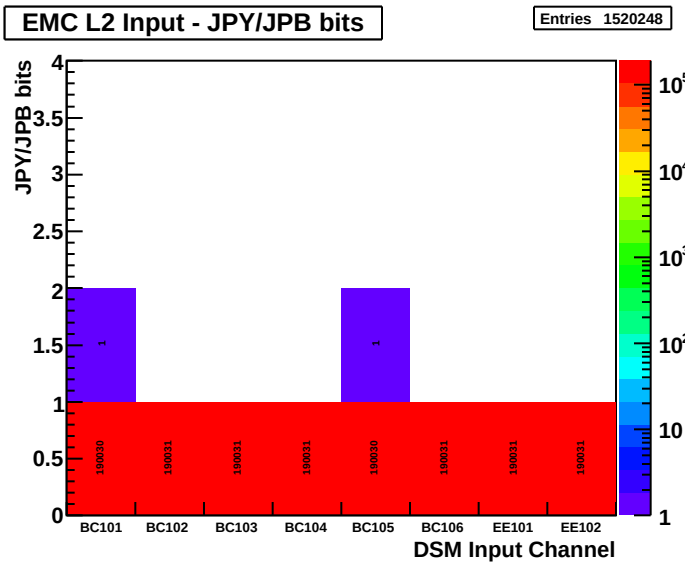

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

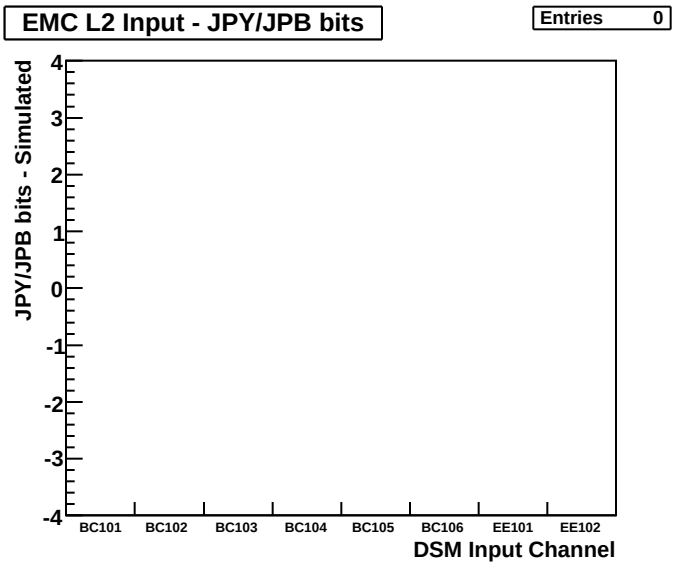

Endcap EMC L1 Input - High Tower Bits
Entries 2280372
High Tower Bits
EE101
EE102
190331
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

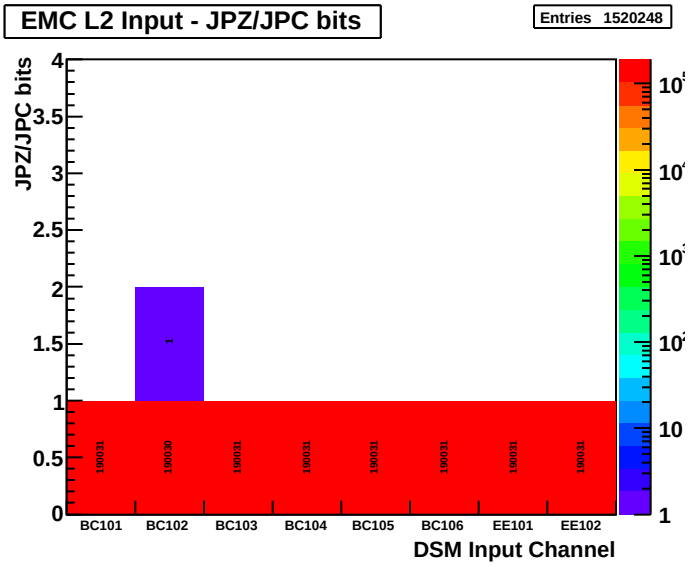

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

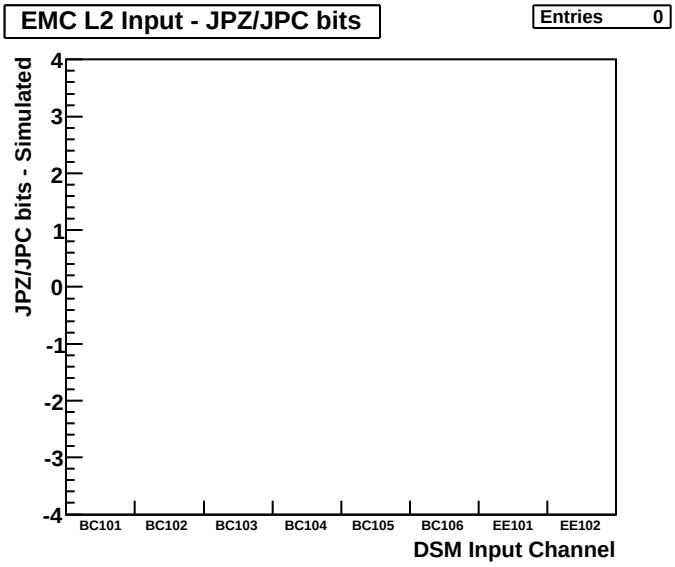

EMC L2 Input - JPX/JPA bits
Entries 1520248
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

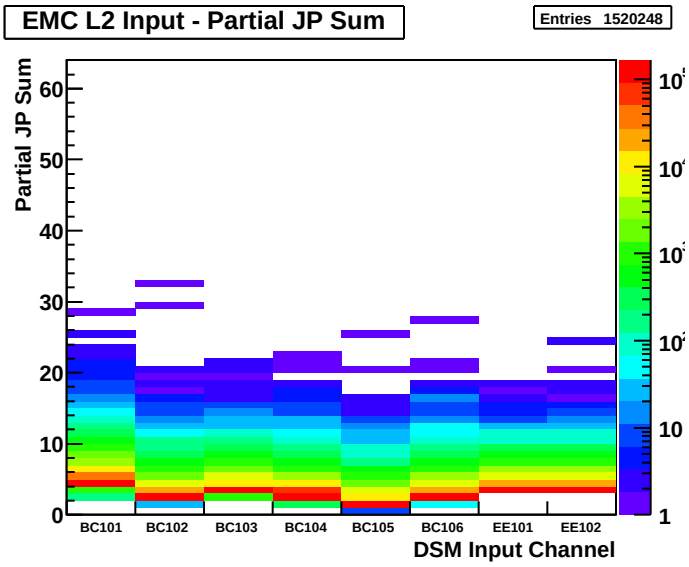

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

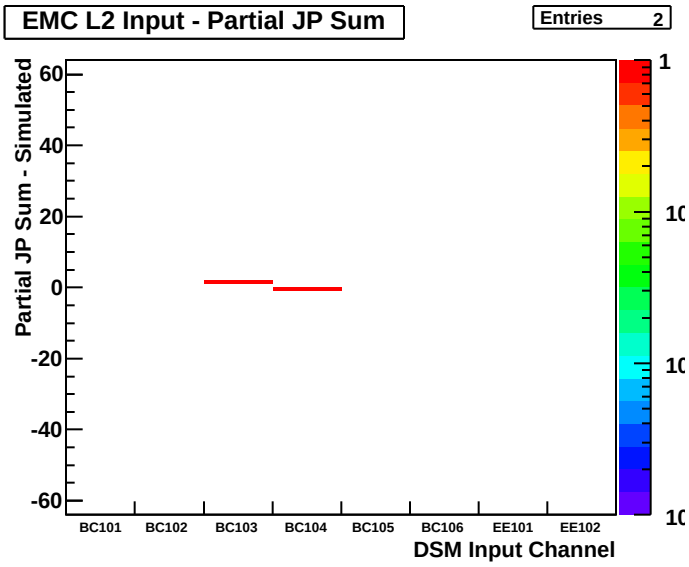

EMC L2 Input - JPY/JPB bits
Entries 1520248
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

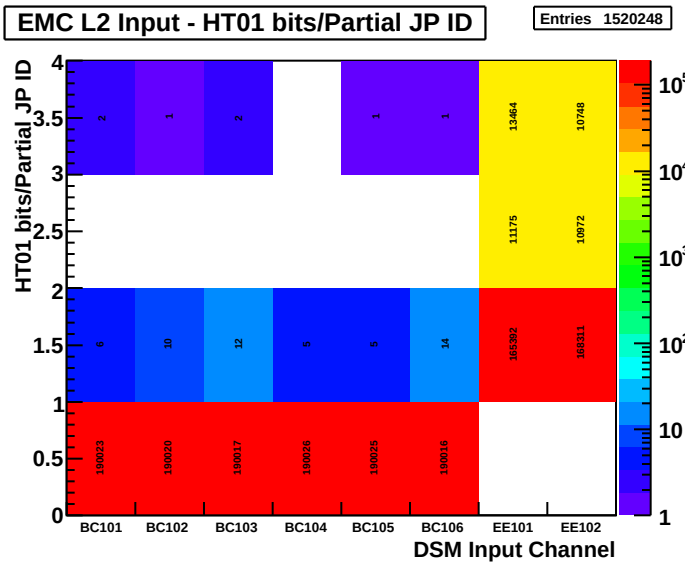

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

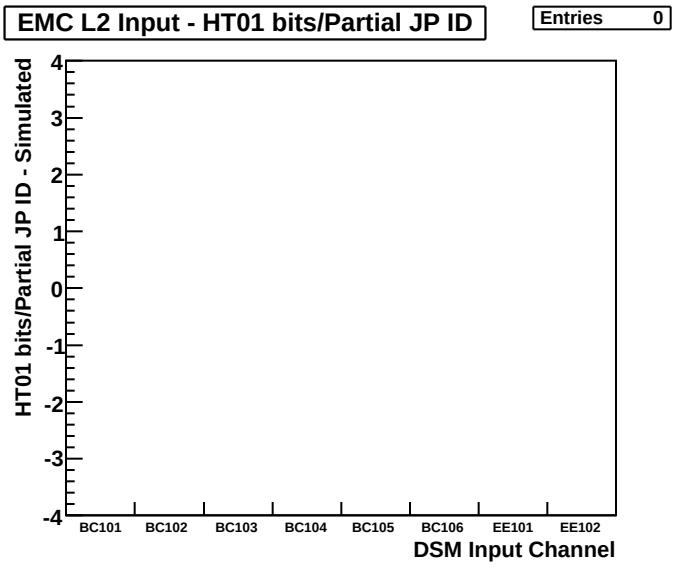

EMC L2 Input - JPZ/JPC bits
Entries 1520248
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

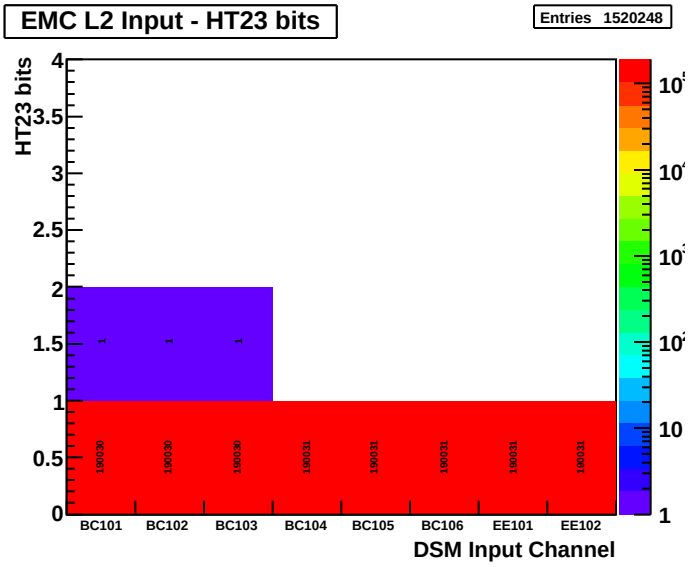

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

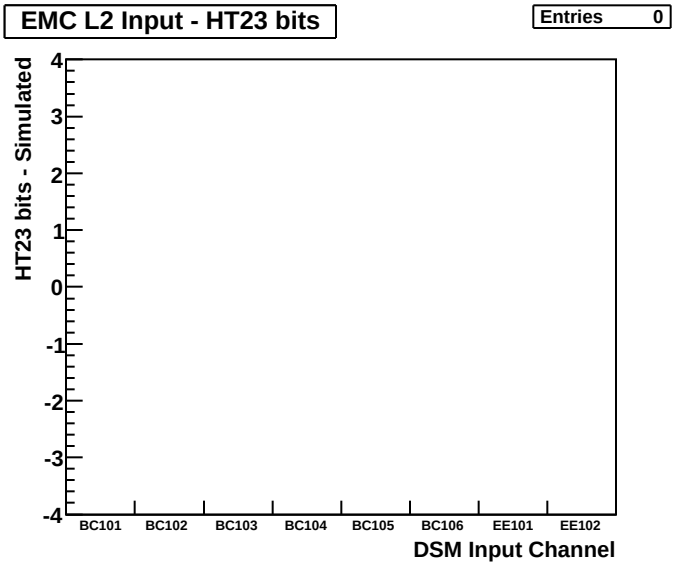

EMC L2 Input - Partial JP Sum
Entries 1520248
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

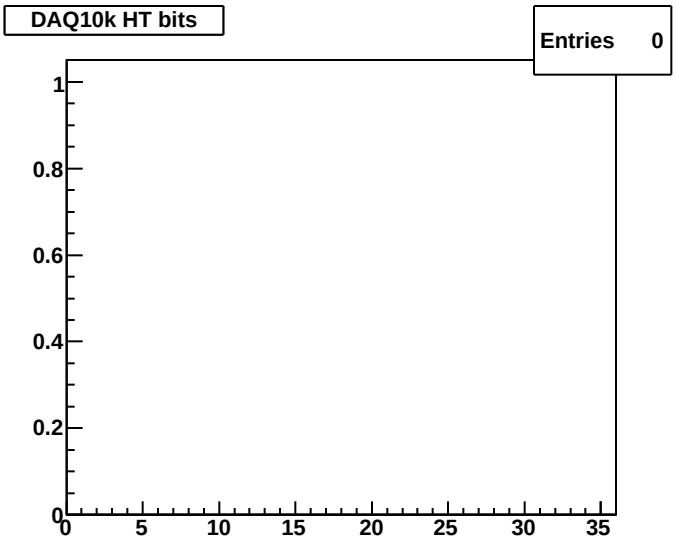

EMC L2 Input - Partial JP Sum
Entries 2
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

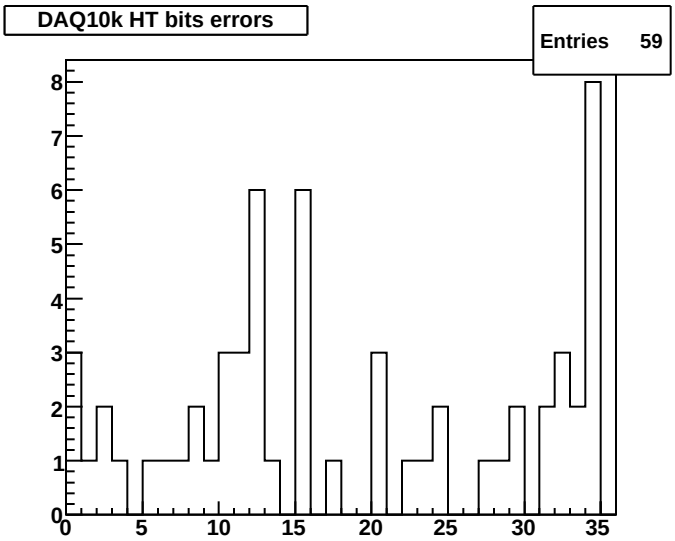

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1520248
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

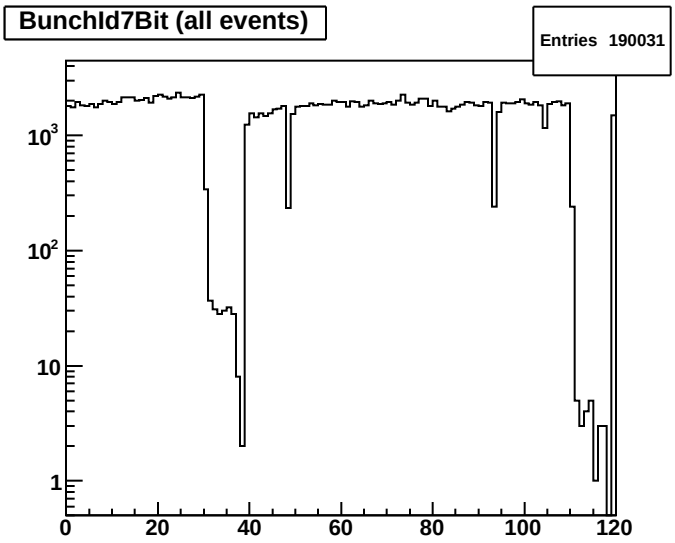

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

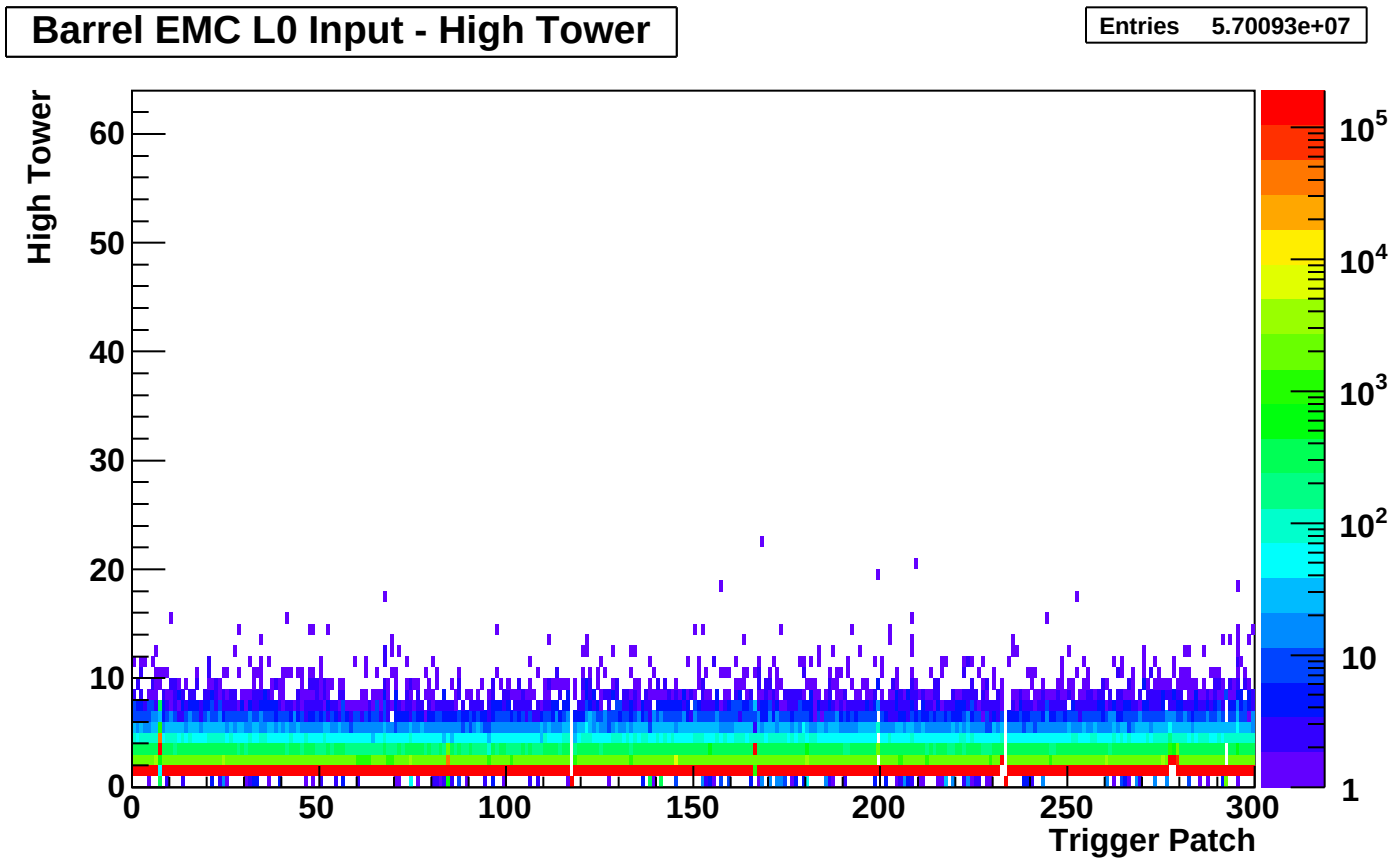

EMC L2 Input - HT23 bits
Entries 1520248
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

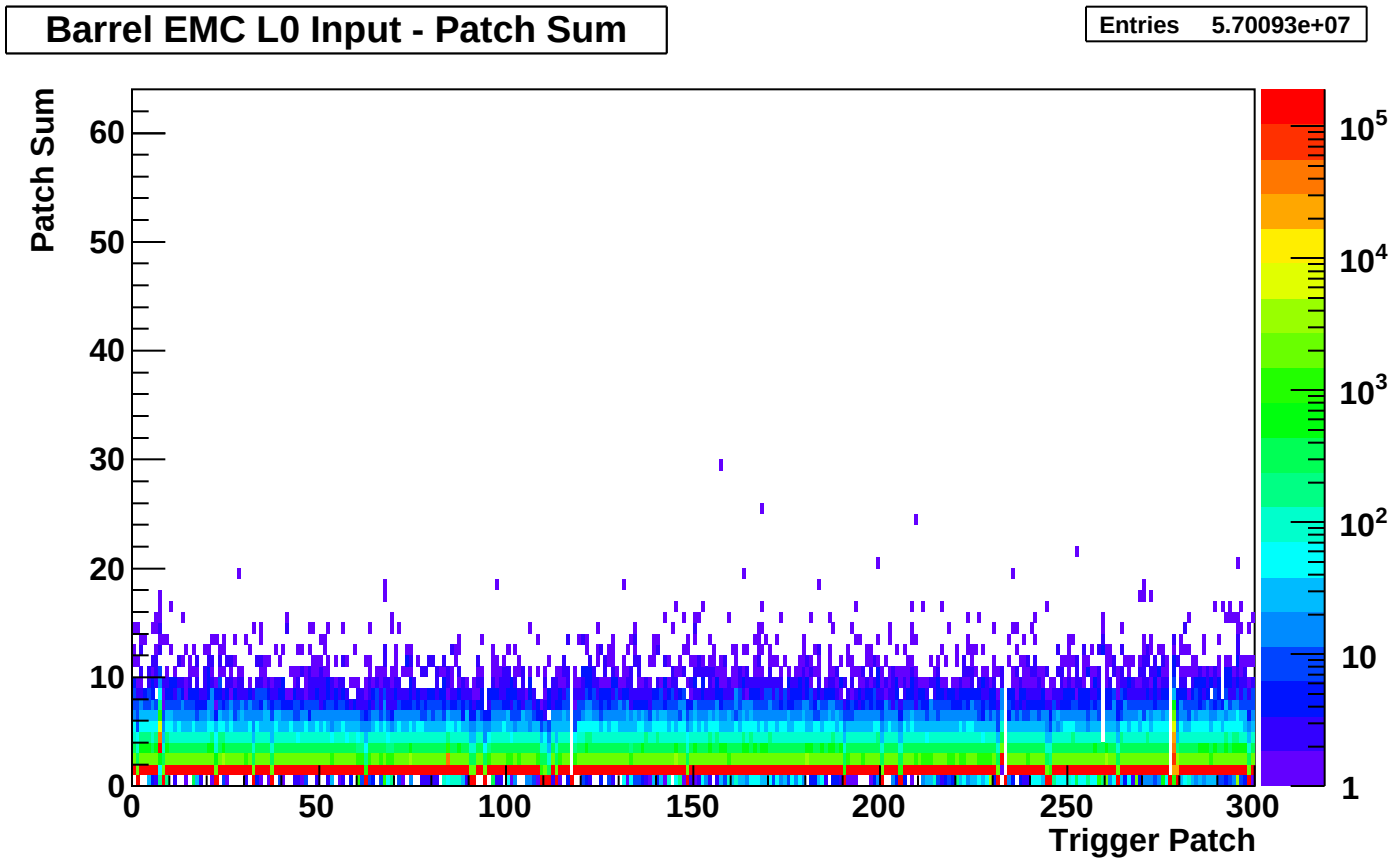

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

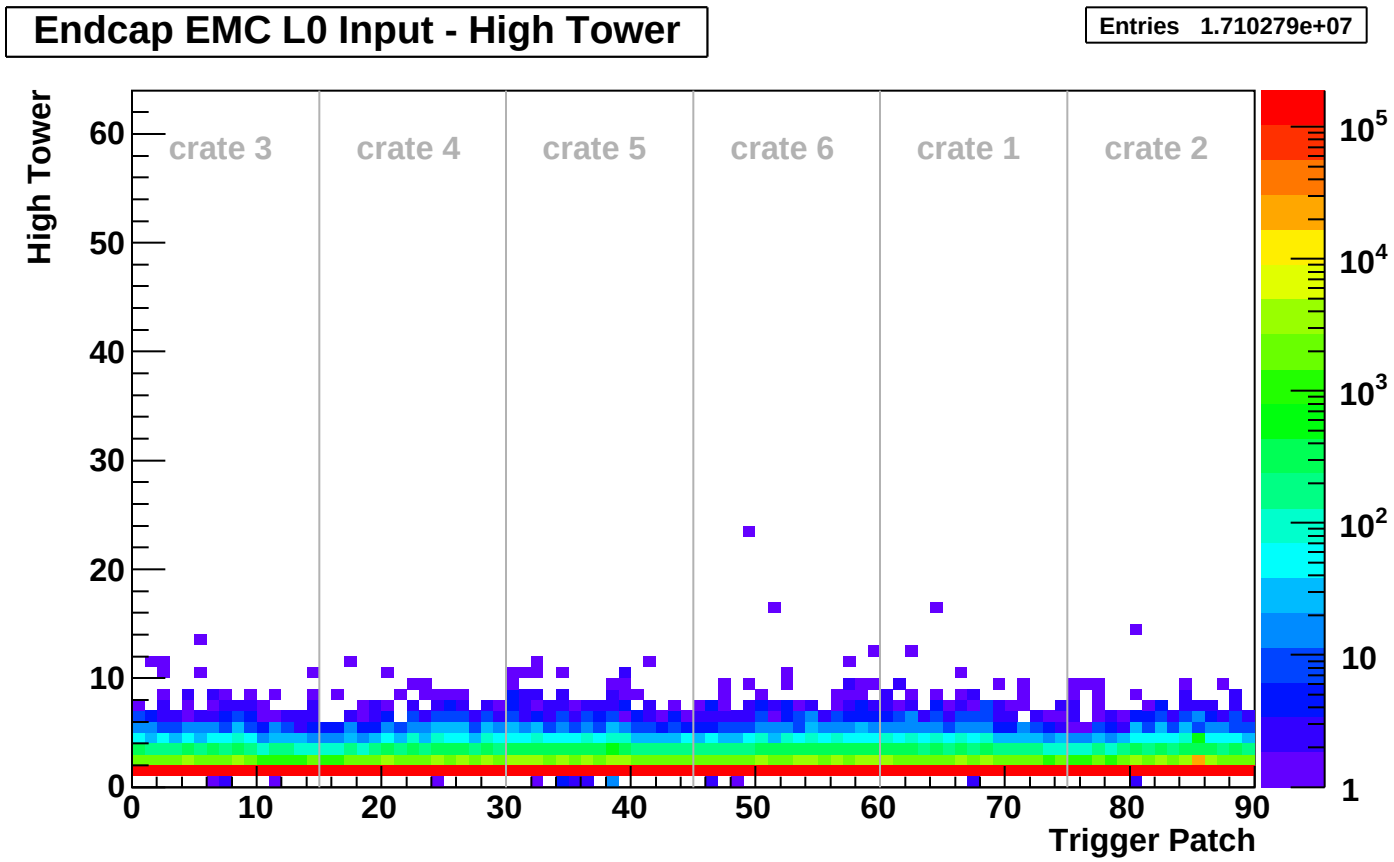

DAQ10k HT bits
Entries 0
1
0.8
0.6
0.4
0.2
0
0 5 10 15 20 25 30 35

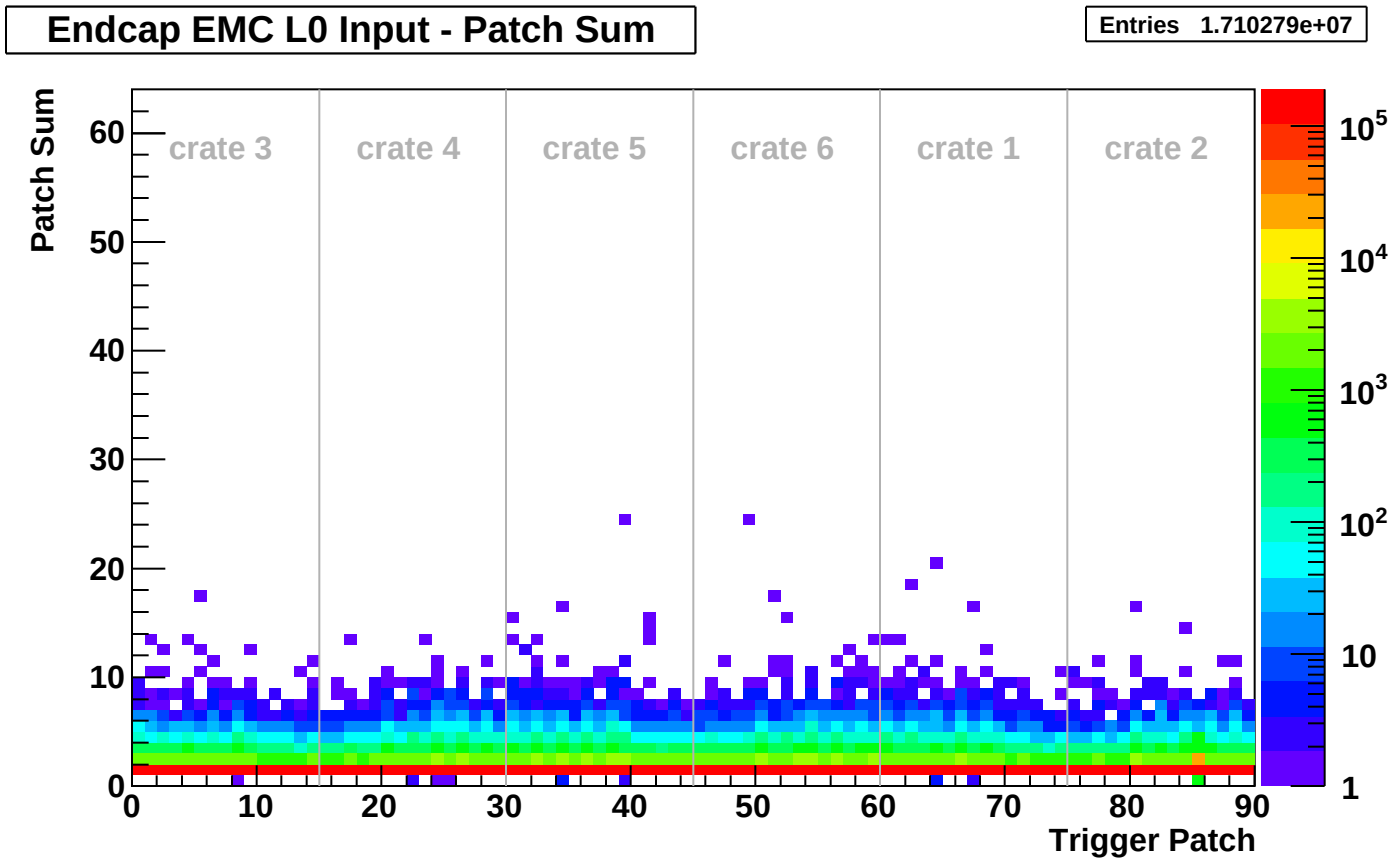

DAQ10k HT bits errors
Entries 59
8
7
6
5
4
3
2
1
0
0 5 10 15 20 25 30 35

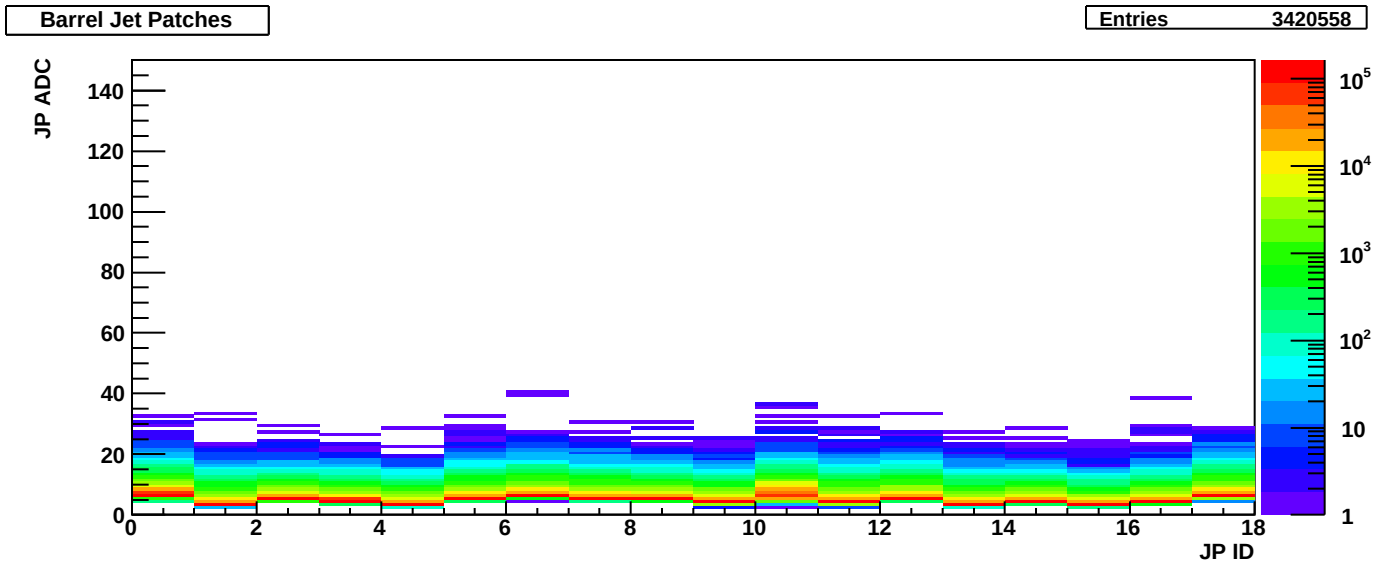

BunchId7Bit (all events)
Entries 190031
10^3
10^2
10
1
0 20 40 60 80 100 120

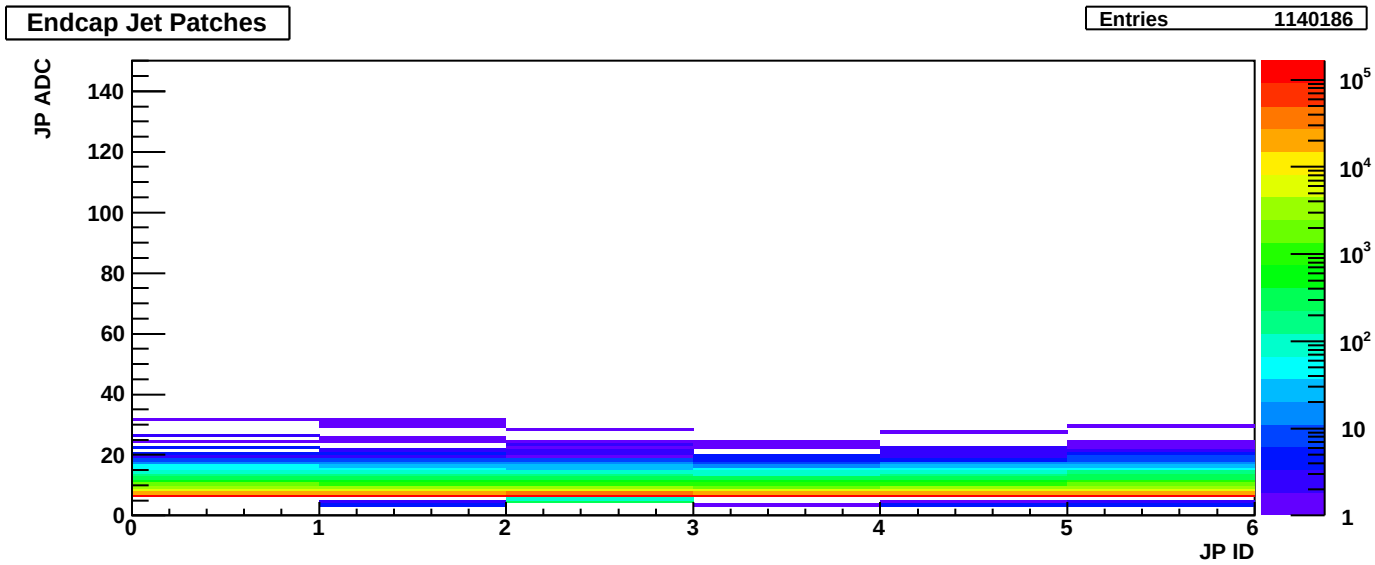

Barrel EMC L0 Input - High Tower
Entries 5.70093e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

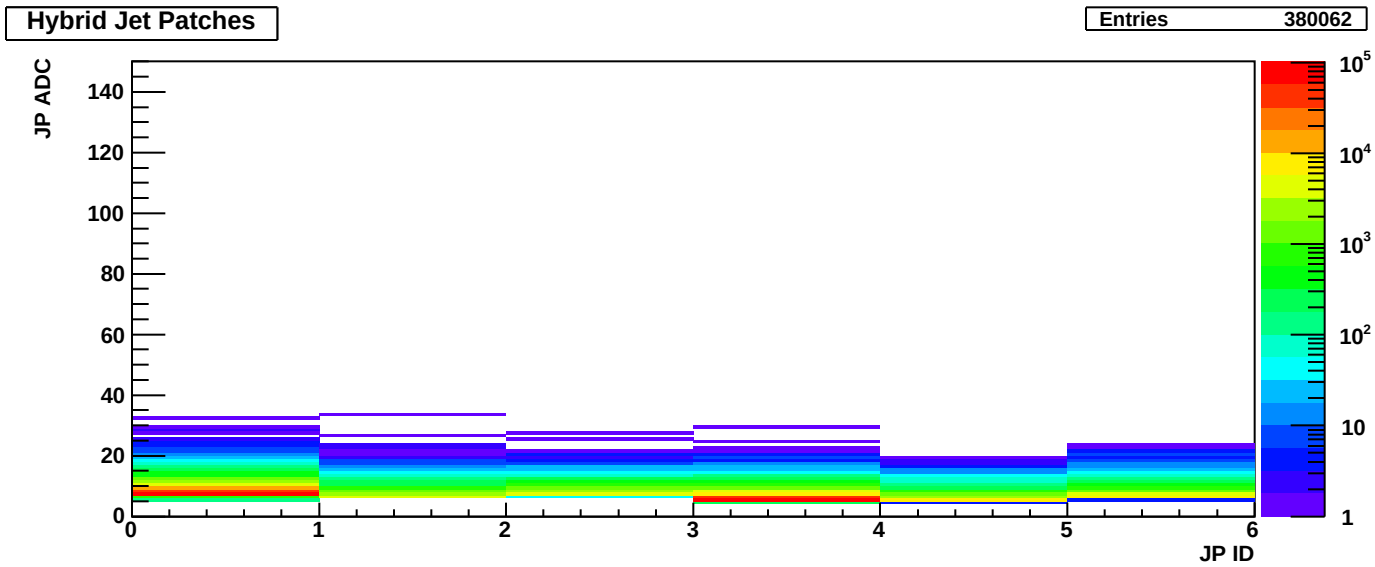

Barrel EMC L0 Input - Patch Sum
Entries 5.70093e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

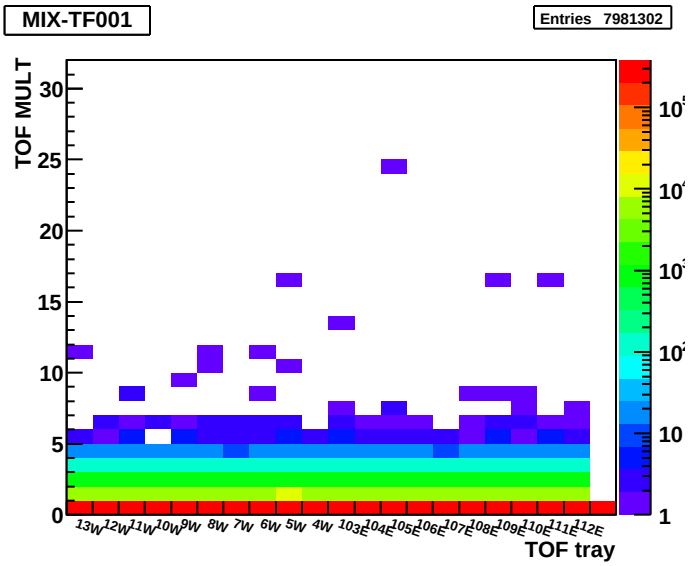

Endcap EMC L0 Input - High Tower
Entries 1.710279e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

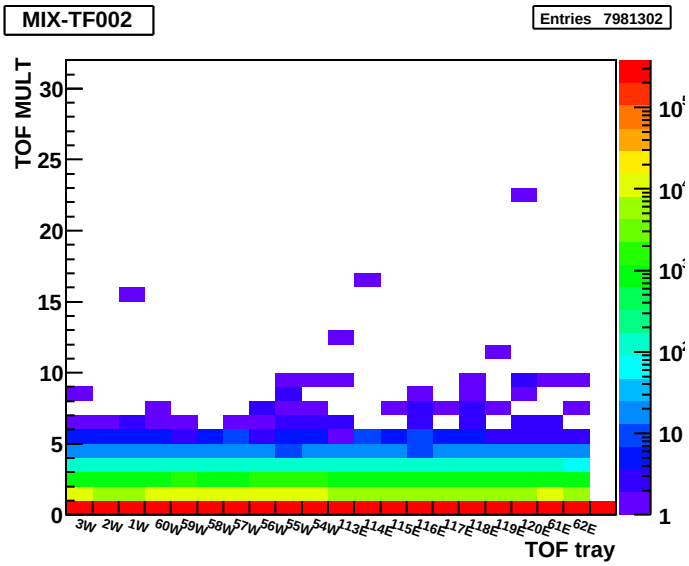

Endcap EMC L0 Input - Patch Sum
Entries 1.710279e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

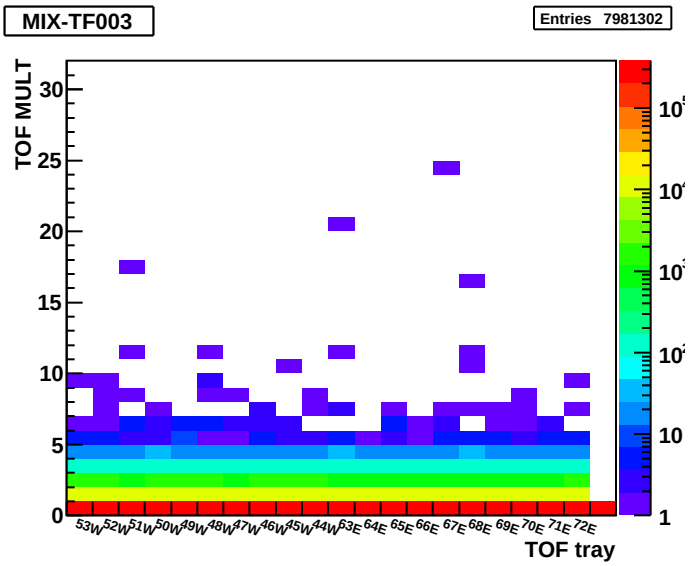

Barrel Jet Patches
Entries 3420558
JP ADC
JP ID

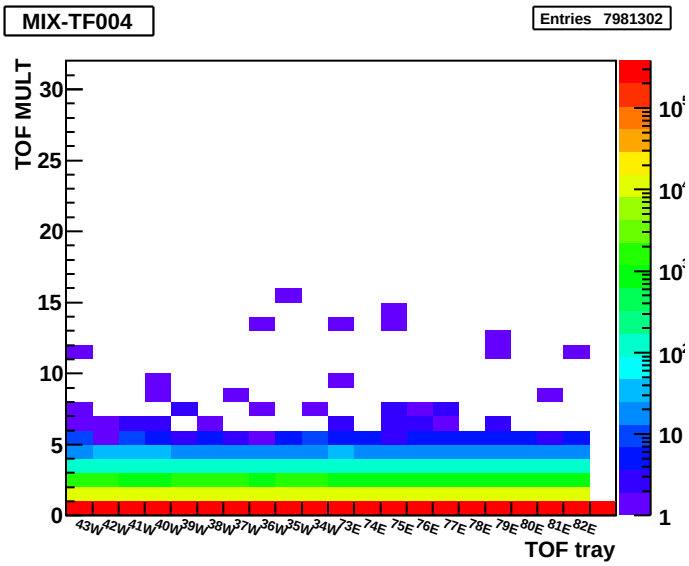

Endcap Jet Patches
Entries 1140186
JP ADC
JP ID

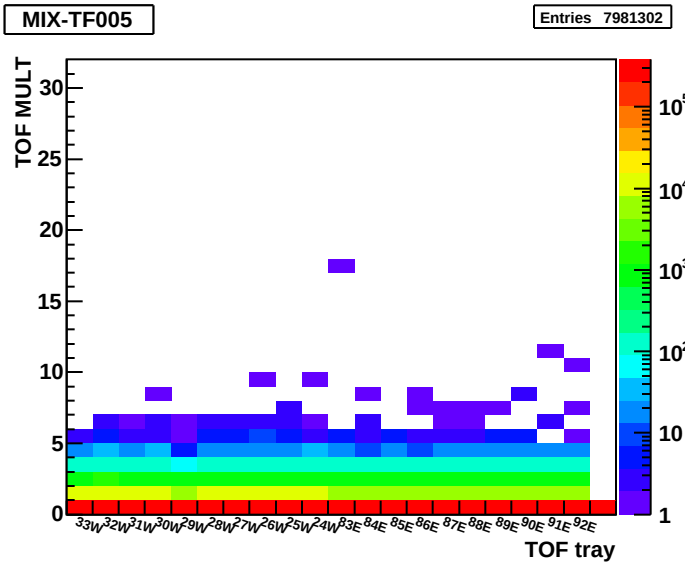

Hybrid Jet Patches
Entries 380062
JP ADC
JP ID

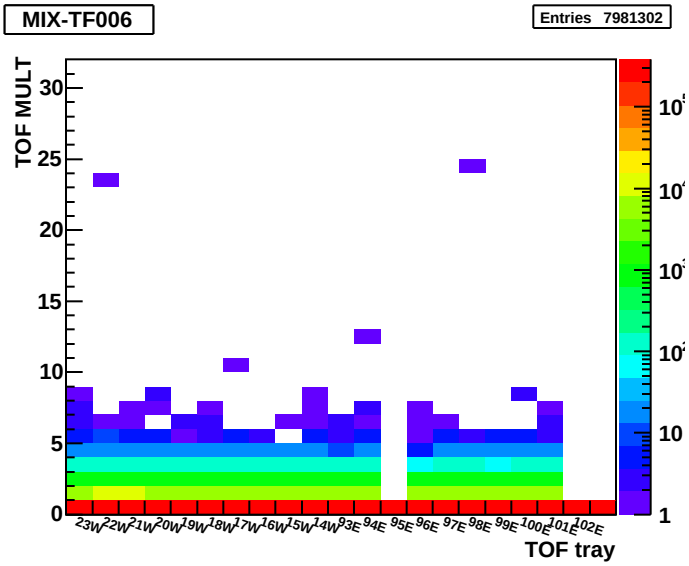

MIX-TF001
Entries 7981302
TOF MULT
TOF tray

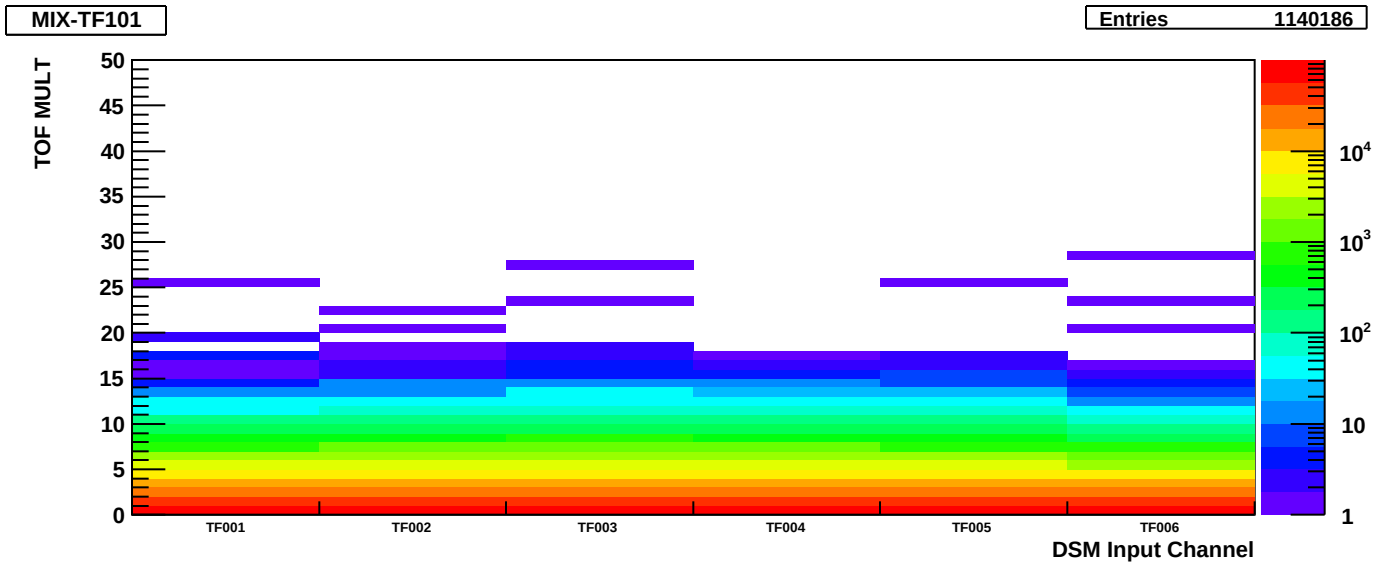

MIX-TF002
Entries 7981302
TOF MULT
TOF tray

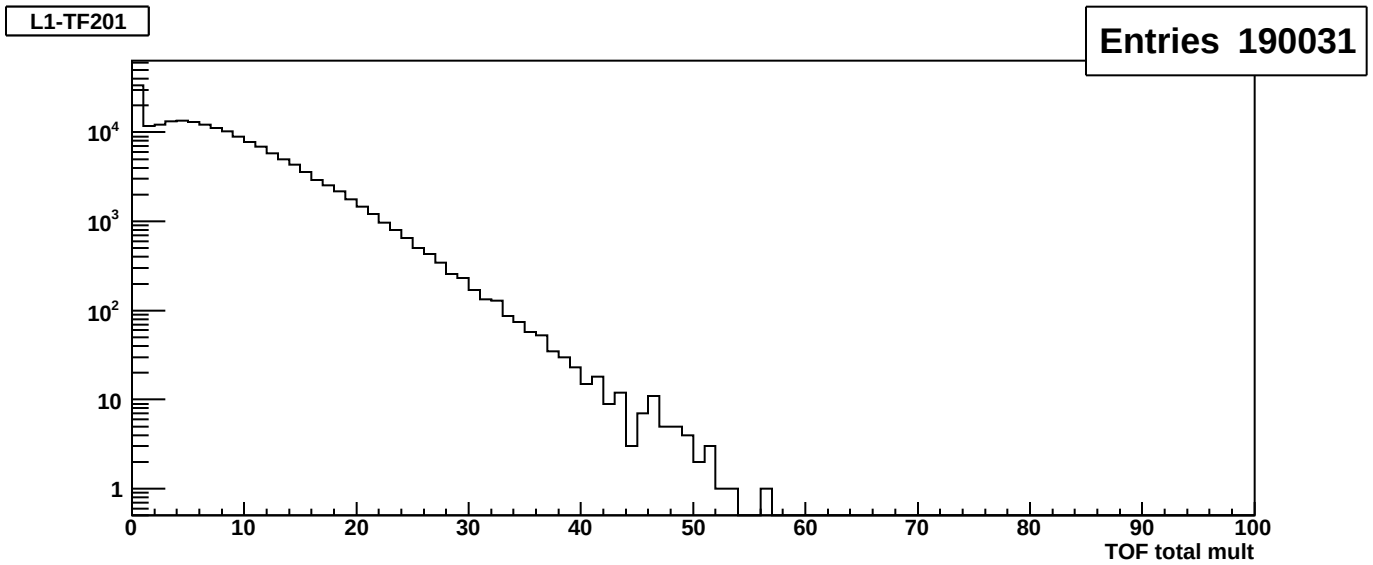

MIX-TF003
Entries 7981302
TOF MULT
TOF tray

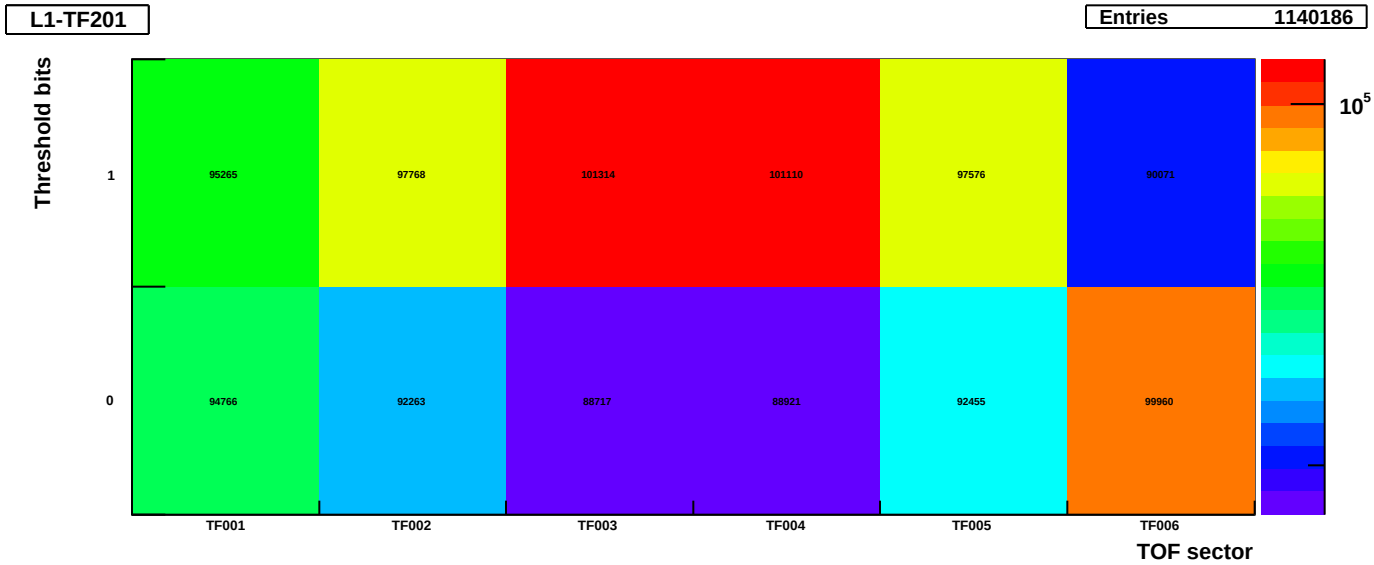

MIX-TF004
Entries 7981302
TOF MULT
TOF tray

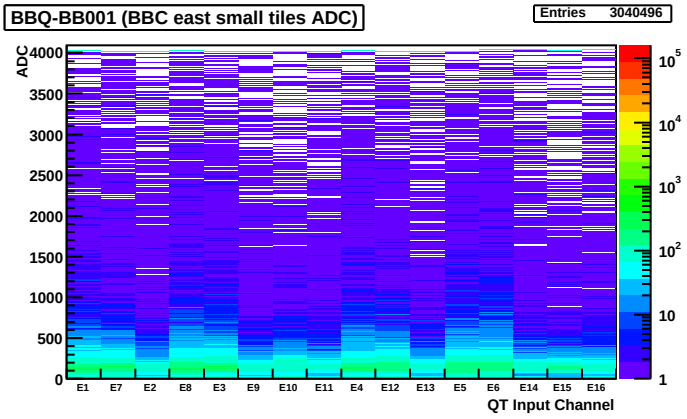

MIX-TF005
Entries 7981302
TOF MULT
TOF tray

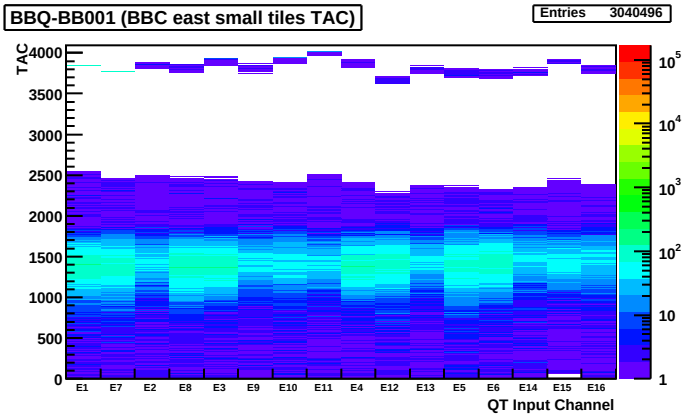

MIX-TF006
Entries 7981302
TOF MULT
TOF tray

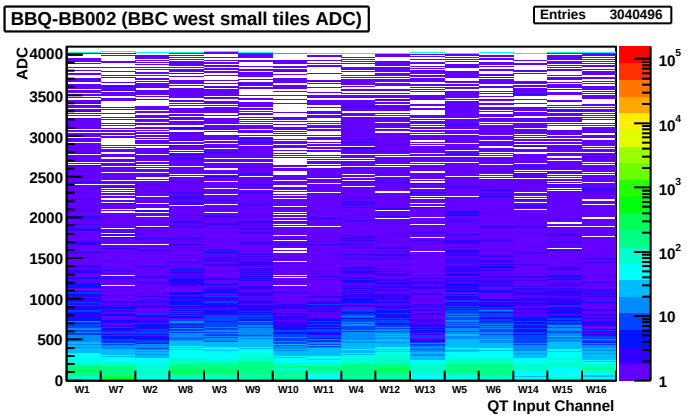

MIX-TF101
Entries 1140186
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

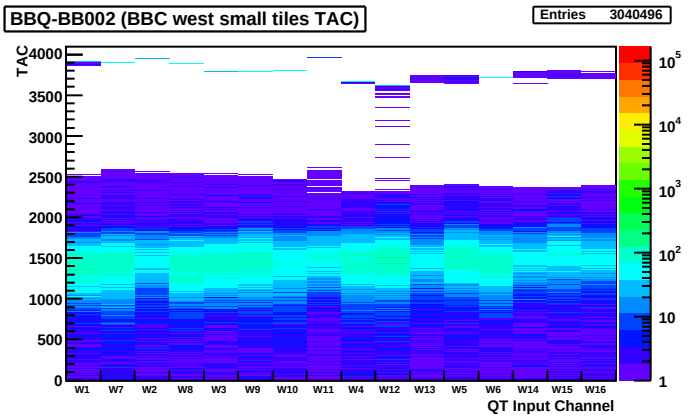

L1-TF201
Entries 190031
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

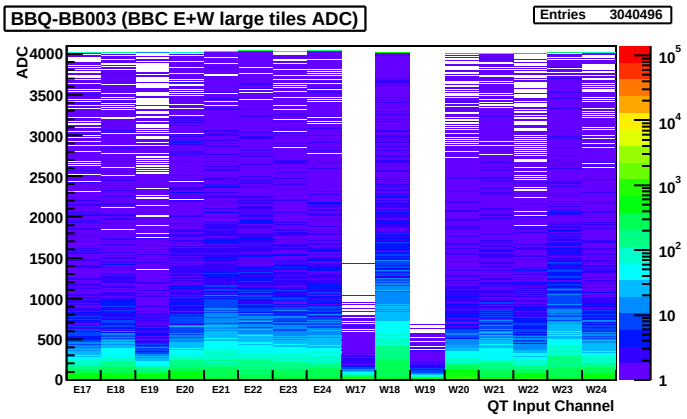

L1-TF201
Entries 1140186
Threshold bits
1
0
95265
97768
101314
101110
97576
90071
94766
92263
88717
88921
92455
99960
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

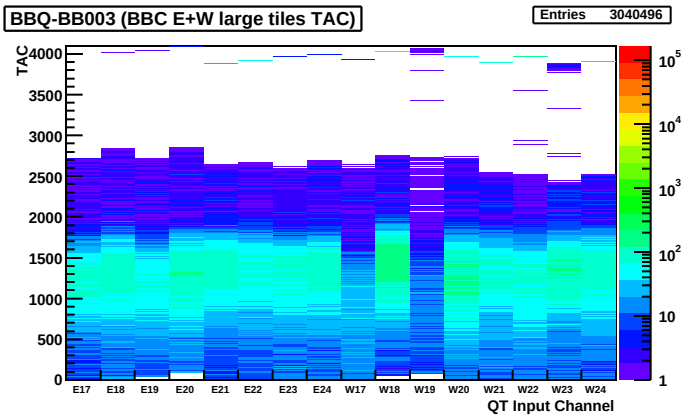

BBQ-BB001 (BBC east small tiles ADC)
Entries 3040496
ADC
QT Input Channel

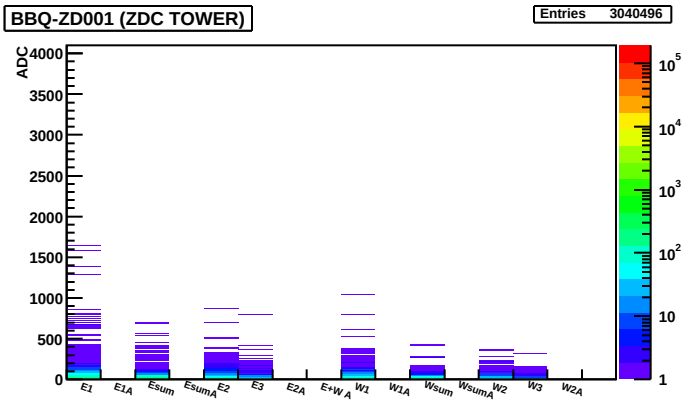

BBQ-BB001 (BBC east small tiles TAC)
Entries 3040496
TAC
QT Input Channel

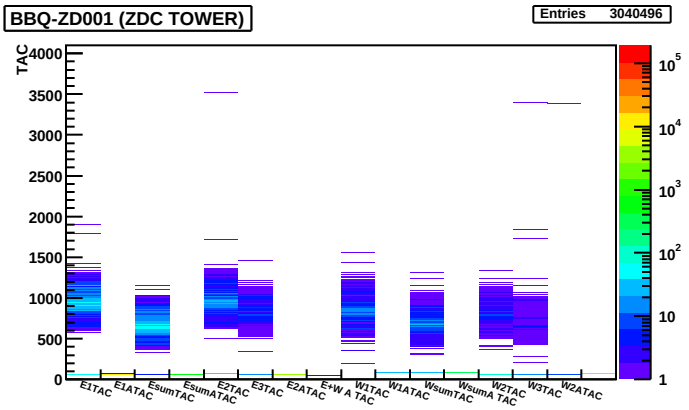

BBQ-BB002 (BBC west small tiles ADC)
Entries 3040496
ADC
QT Input Channel

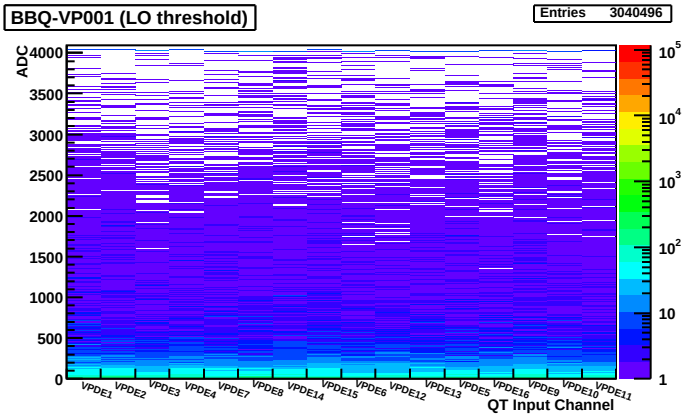

BBQ-BB002 (BBC west small tiles TAC)
Entries 3040496
TAC
QT Input Channel

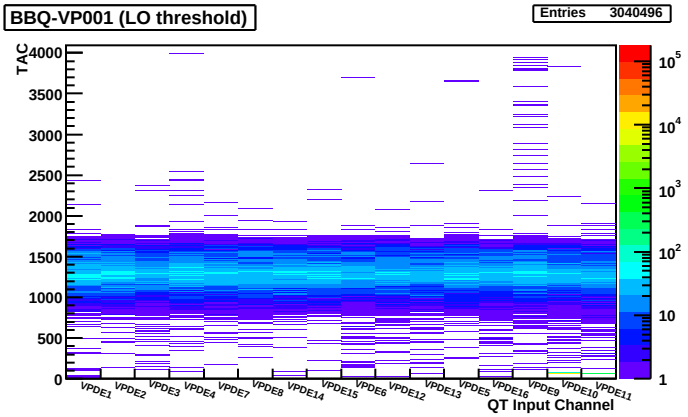

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3040496
ADC
QT Input Channel

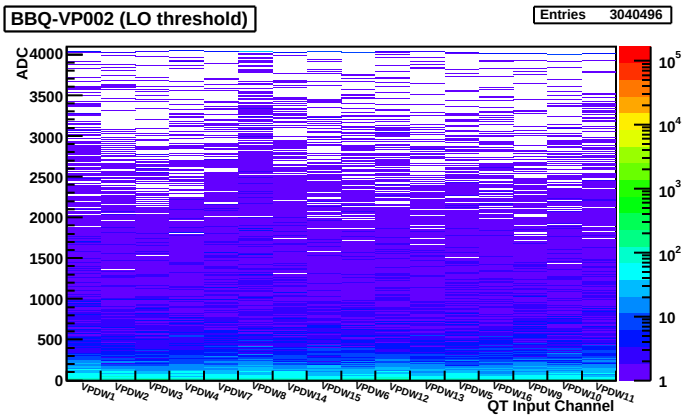

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3040496
TAC
QT Input Channel

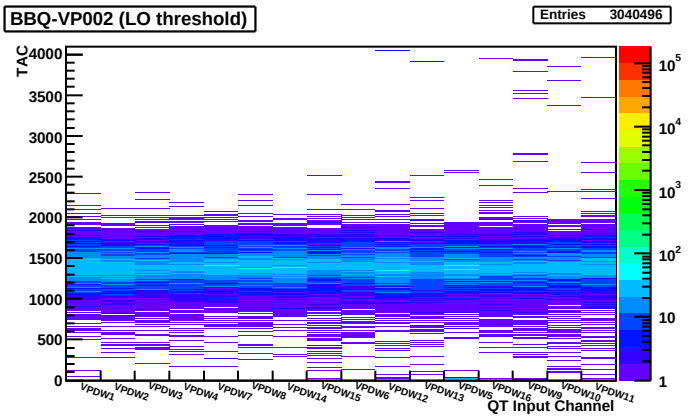

BBQ-ZD001 (ZDC TOWER)
Entries 3040496
ADC

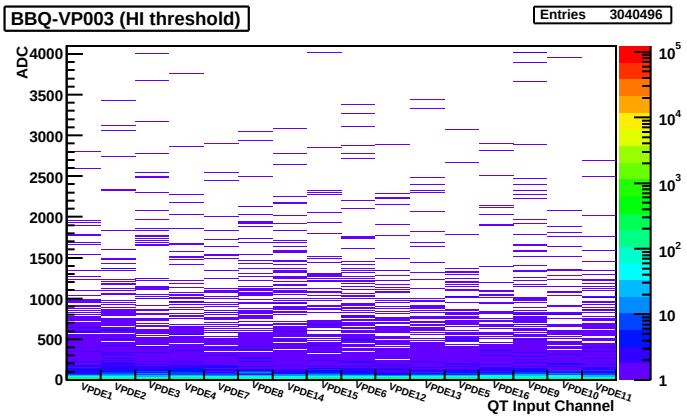

BBQ-ZD001 (ZDC TOWER)
Entries 3040496
TAC

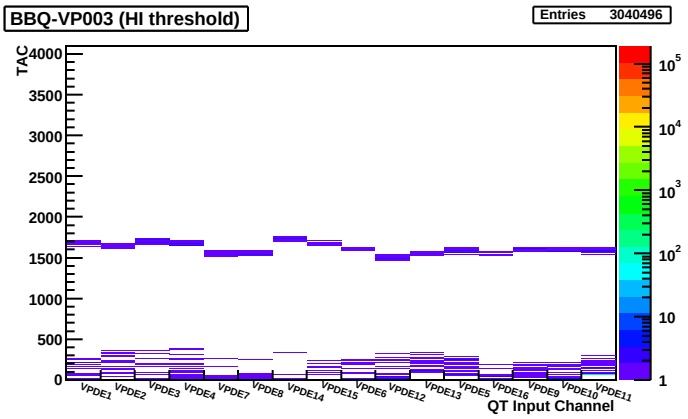

BBQ-VP001 (LO threshold)
Entries 3040496
ADC
QT Input Channel

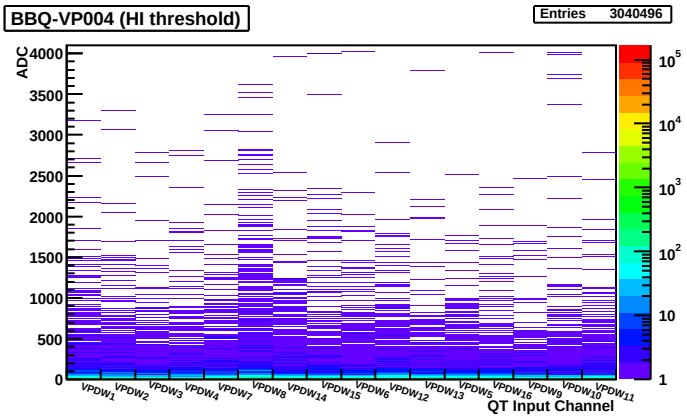

BBQ-VP001 (LO threshold)
Entries 3040496
TAC
QT Input Channel

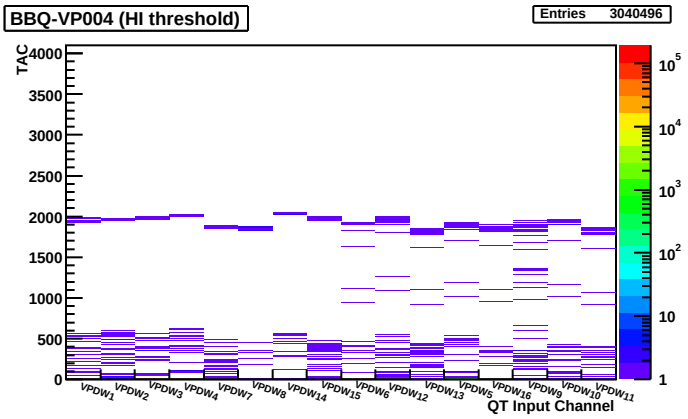

BBQ-VP002 (LO threshold)
Entries 3040496
ADC
QT Input Channel

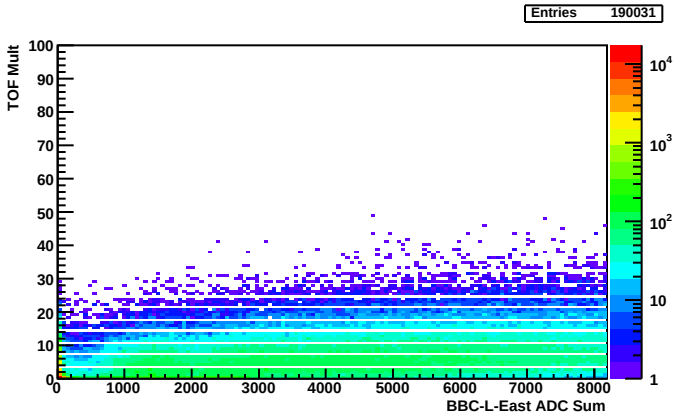

BBQ-VP002 (LO threshold)
Entries 3040496
TAC
QT Input Channel

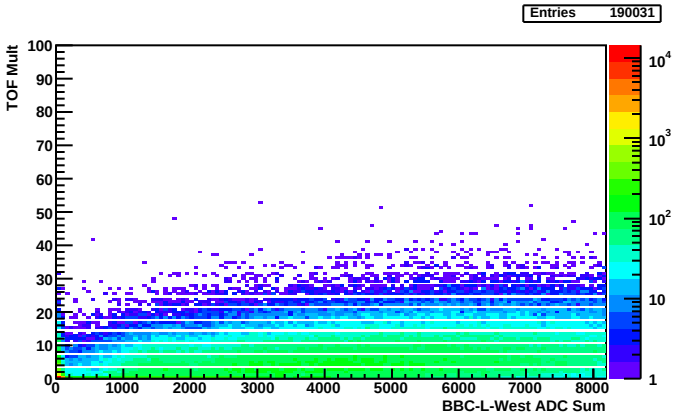

BBQ-VP003 (HI threshold)
Entries 3040496
ADC
QT Input Channel

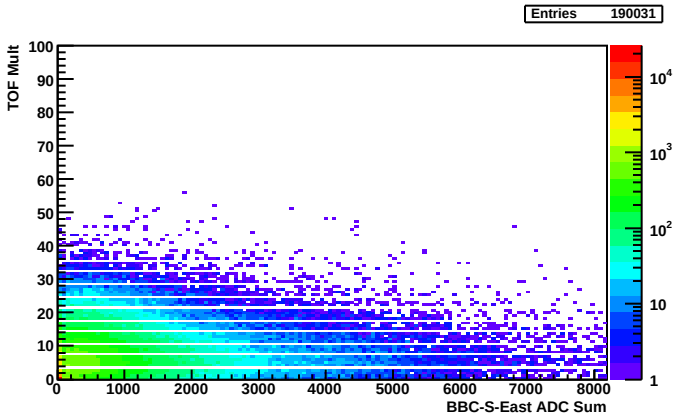

BBQ-VP003 (HI threshold)
Entries 3040496
TAC
QT Input Channel

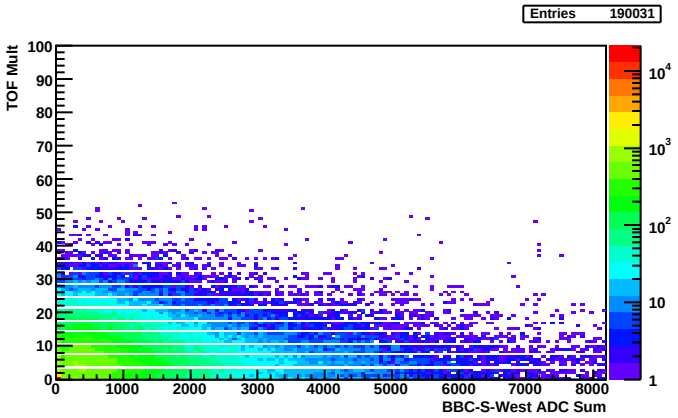

BBQ-VP004 (HI threshold)
Entries 3040496
ADC
QT Input Channel

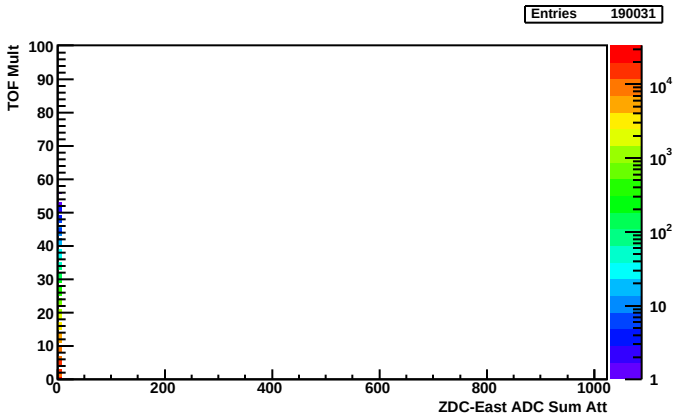

BBQ-VP004 (HI threshold)
Entries 3040496
TAC
QT Input Channel

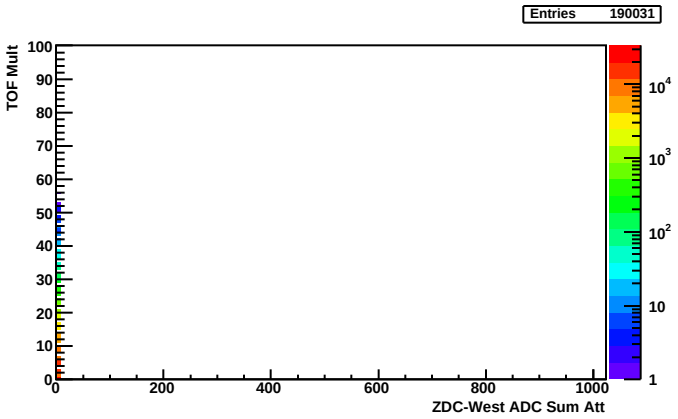

Entries 190031
TOF Mult
BBC-L-East ADC Sum

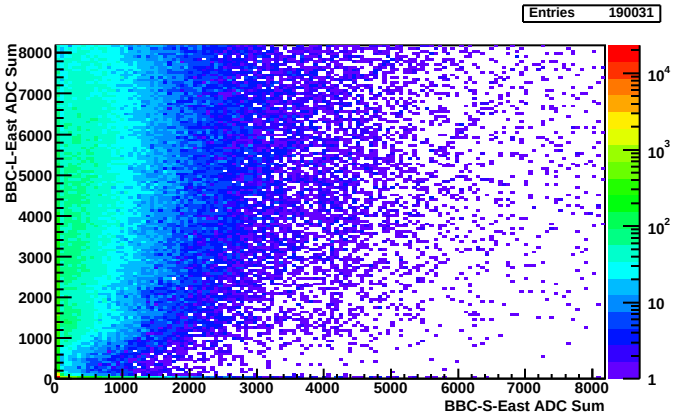

Entries 190031
TOF Mult
BBC-L-West ADC Sum

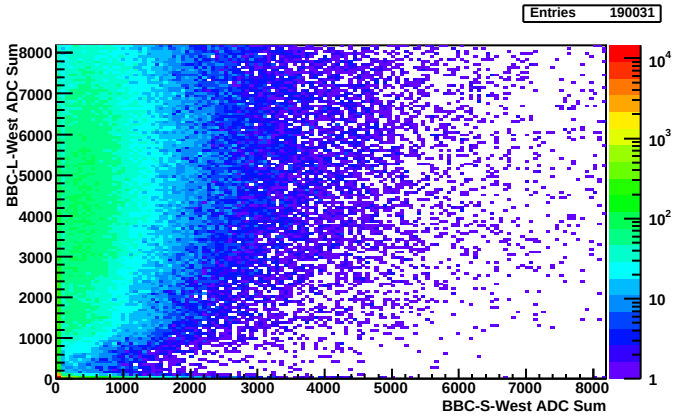

Entries 190031
TOF Mult
BBC-S-East ADC Sum

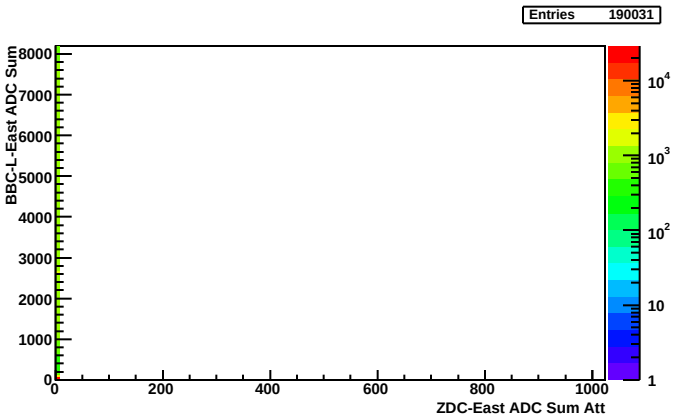

Entries 190031
TOF Mult
BBC-S-West ADC Sum

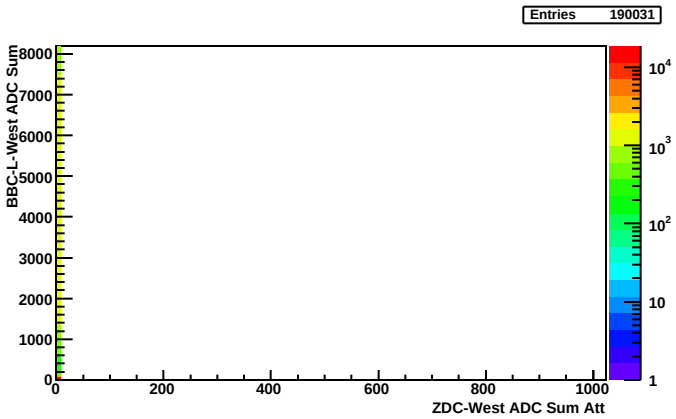

Entries 190031
TOF Mult
ZDC-East ADC Sum Att

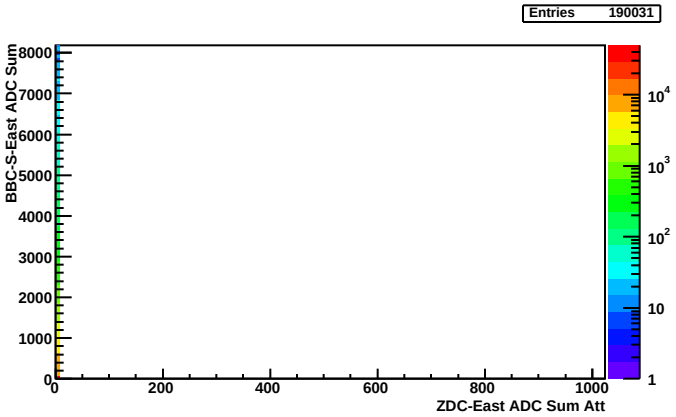

Entries 190031
TOF Mult
ZDC-West ADC Sum Att

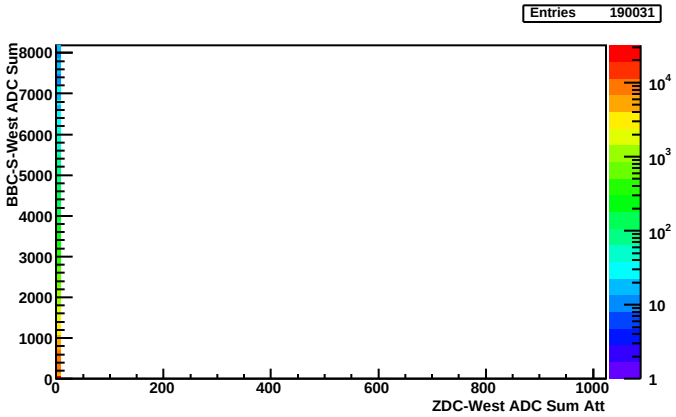

Entries 190031
BBC-L-East ADC Sum
BBC-S-East ADC Sum

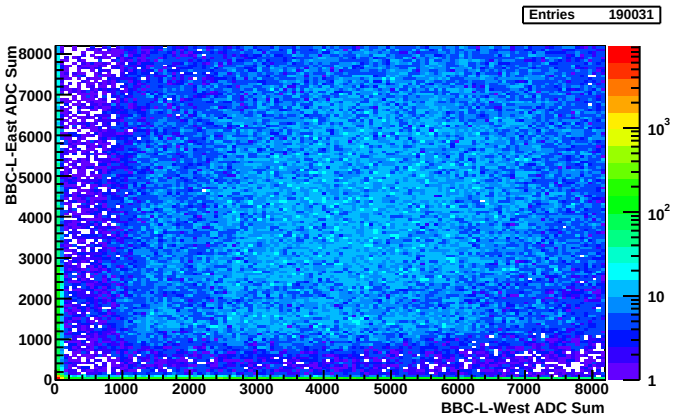

Entries 190031
BBC-L-West ADC Sum
BBC-S-West ADC Sum

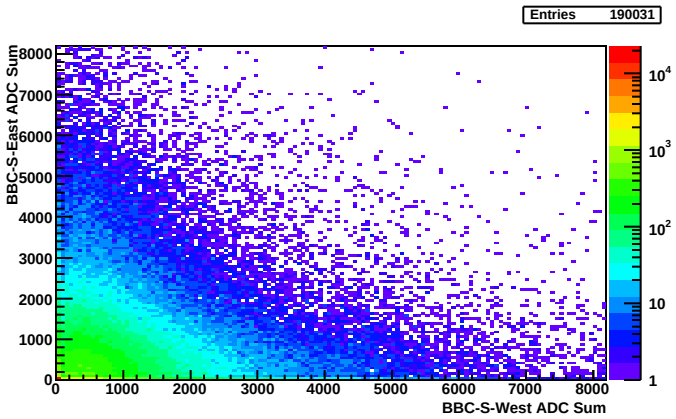

Entries 190031
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

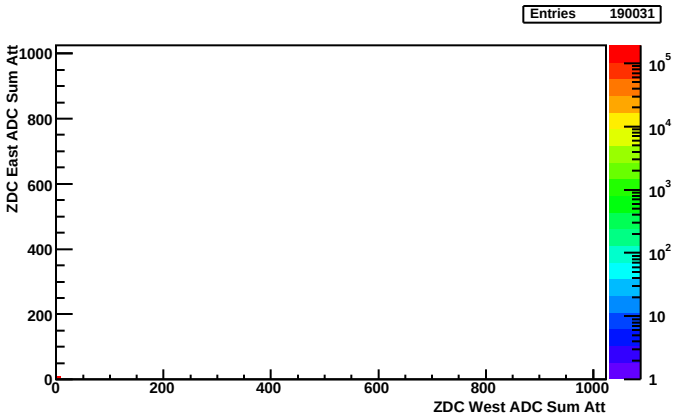

Entries 190031
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

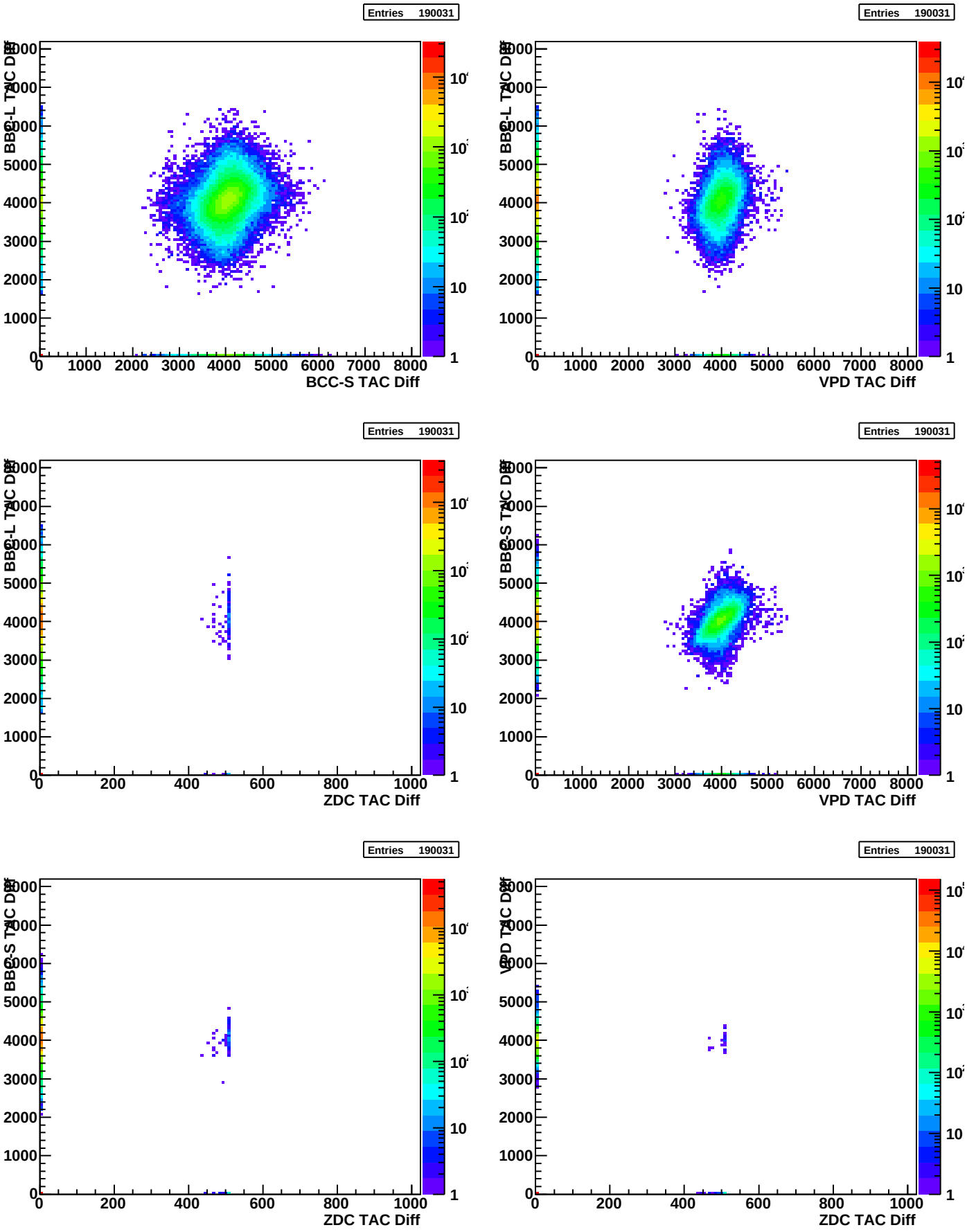

Entries 190031
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

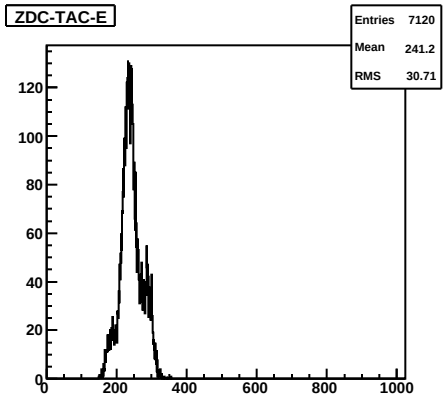

Entries 190031
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

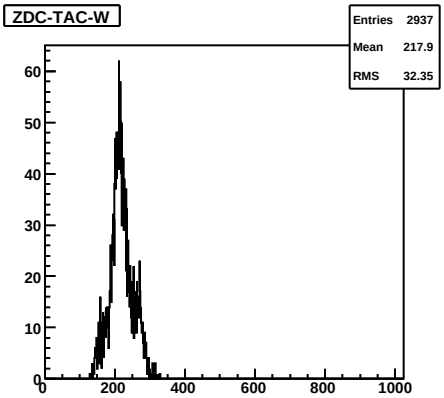

Entries 190031
BBC-L-East ADC Sum
BBC-L-West ADC Sum

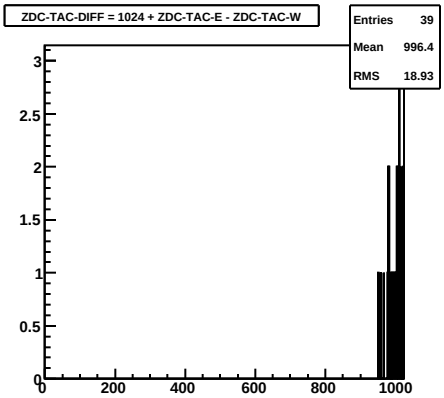

Entries 190031
BBC-S-East ADC Sum
BBC-S-West ADC Sum

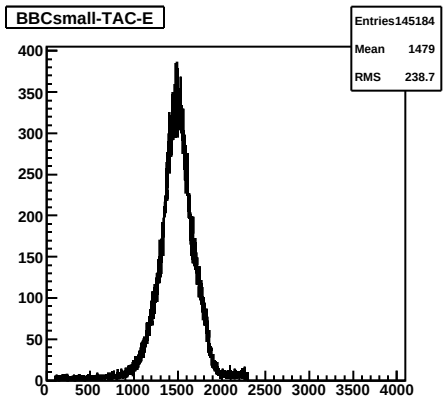

Entries 190031
ZDC East ADC Sum Att
ZDC West ADC Sum Att

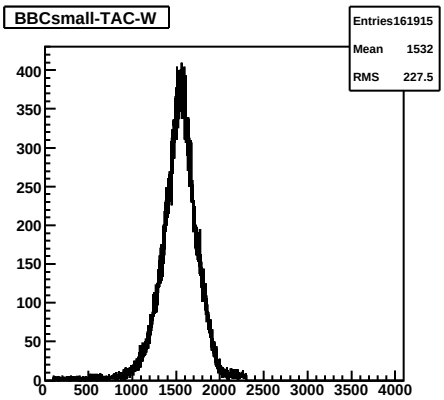

Entries 190031
BBC-L TAC Diff
BCC-S TAC Diff
Entries 190031
BBC-L TAC Diff
VPD TAC Diff
Entries 190031
BBC-L TAC Diff
ZDC TAC Diff
Entries 190031
BBC-S TAC Diff
VPD TAC Diff
Entries 190031
BBC-S TAC Diff
ZDC TAC Diff
Entries 190031
VPD TAC Diff
ZDC TAC Diff

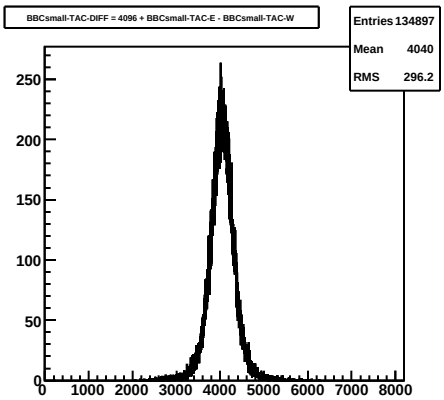

ZDC-TAC-E
Entries 7120
Mean 241.2
RMS 30.71

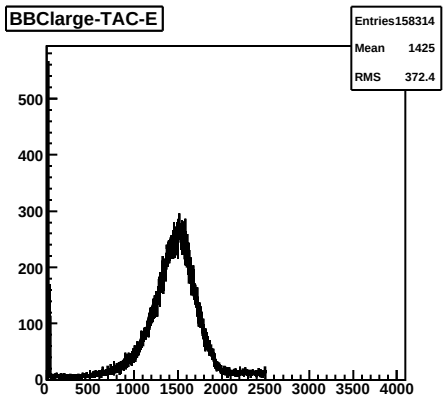

ZDC-TAC-W
Entries 2937
Mean 217.9
RMS 32.35

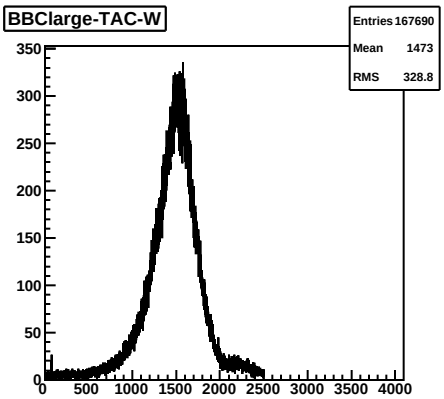

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 39
Mean 996.4
RMS 18.93

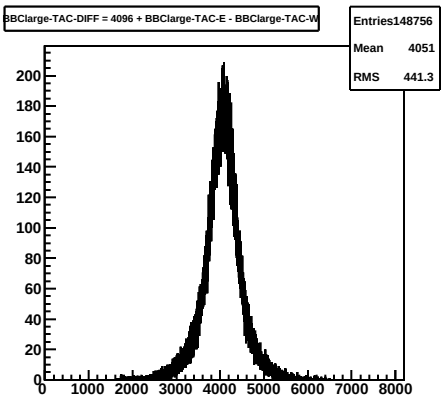

BBCsmall-TAC-E
Entries145184
Mean 1479
RMS 238.7

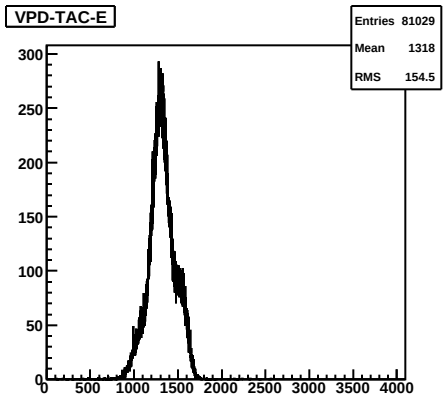

BBCsmall-TAC-W
Entries161915
Mean 1532
RMS 227.5

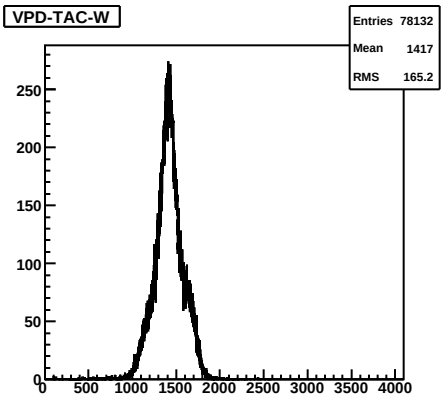

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 134897
Mean 4040
RMS 296.2

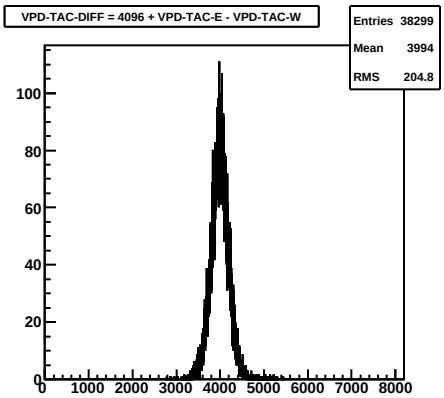

BBClarge-TAC-E
Entries158314
Mean 1425
RMS 372.4

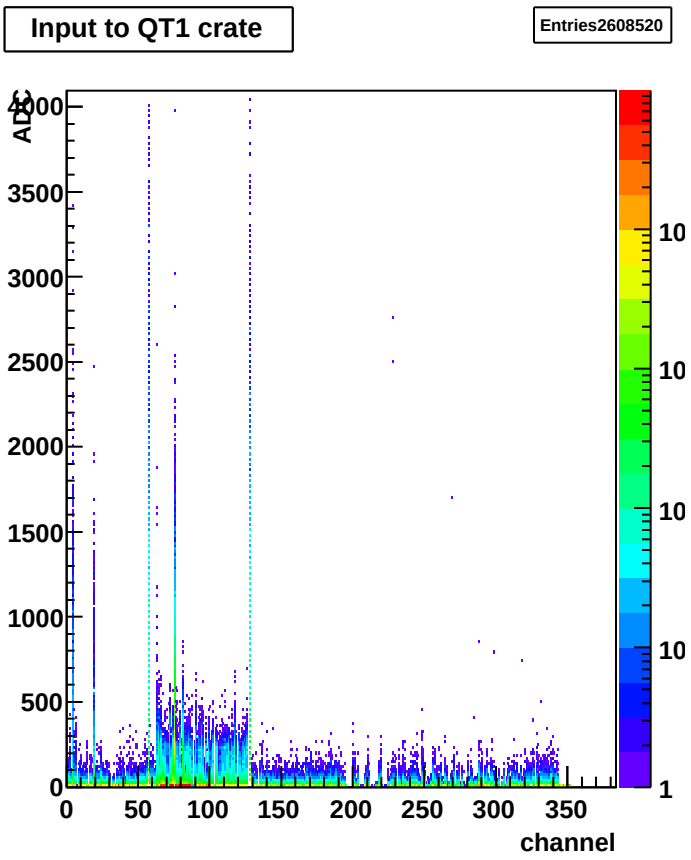

BBClarge-TAC-W
Entries167690
Mean 1473
RMS 328.8

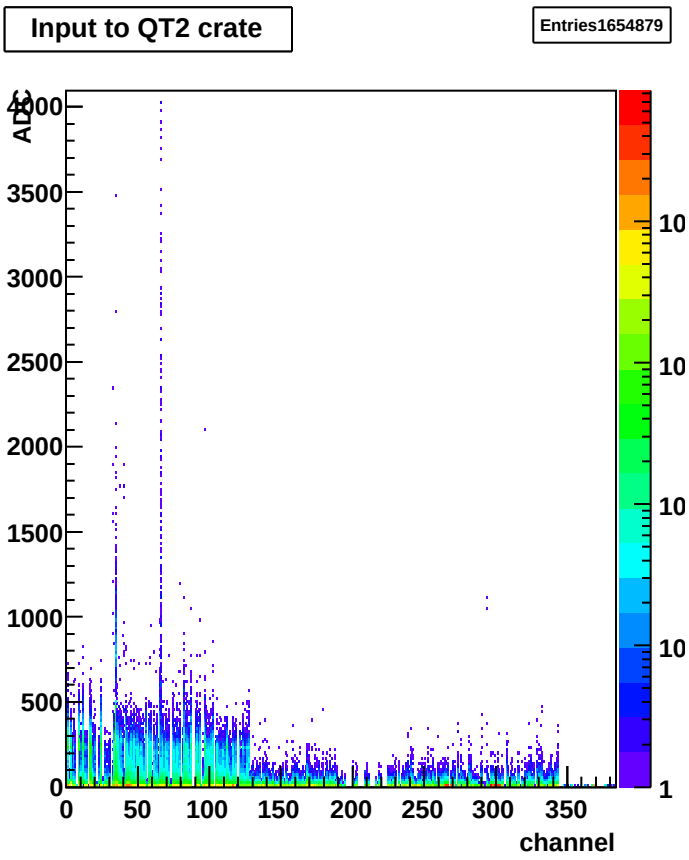

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries148756
Mean 4051
RMS 441.3

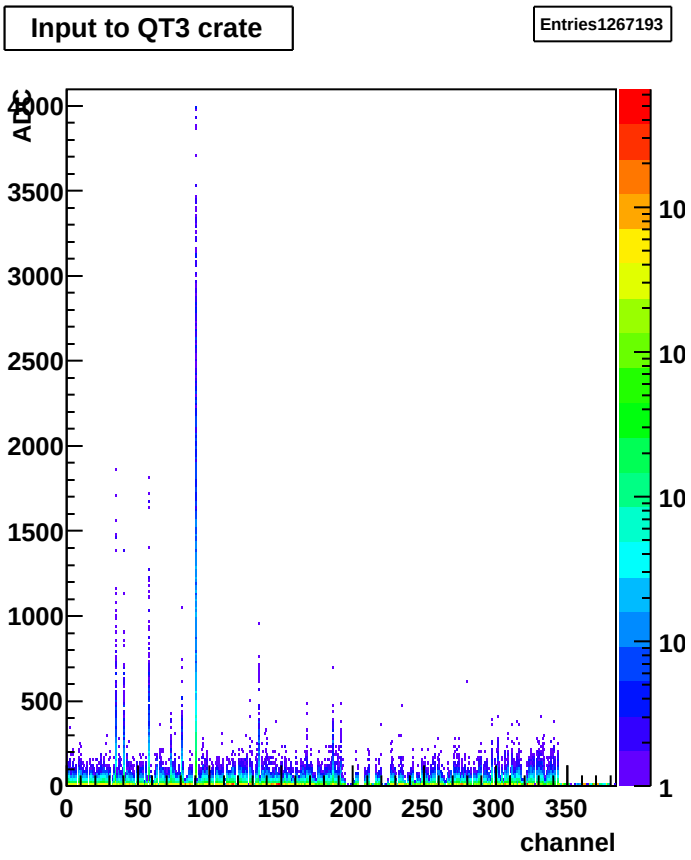

VPD-TAC-E
Entries 81029
Mean 1318
RMS 154.5

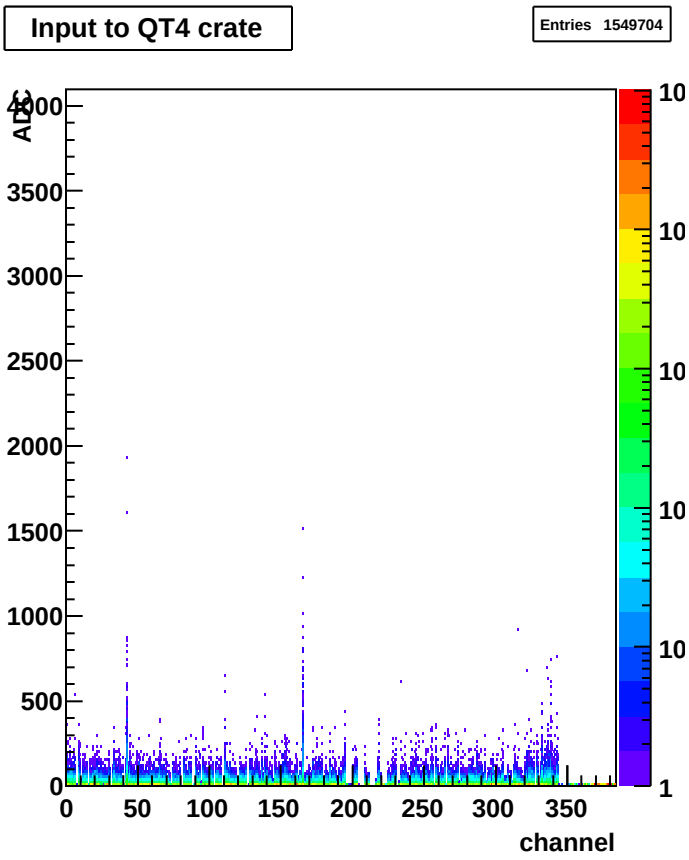

VPD-TAC-W
Entries 78132
Mean 1417
RMS 165.2

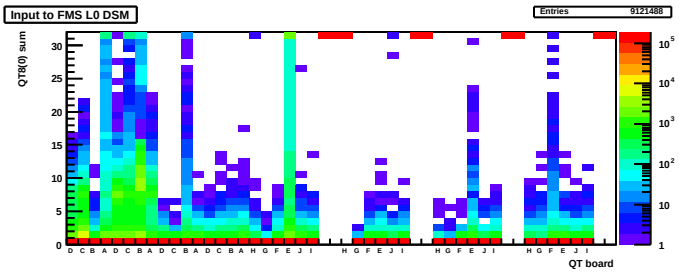

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 38299
Mean 3994
RMS 204.8

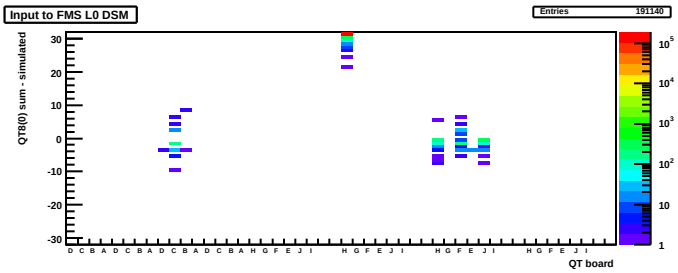

Input to QT1 crate
Entries2608520
ADC
channel

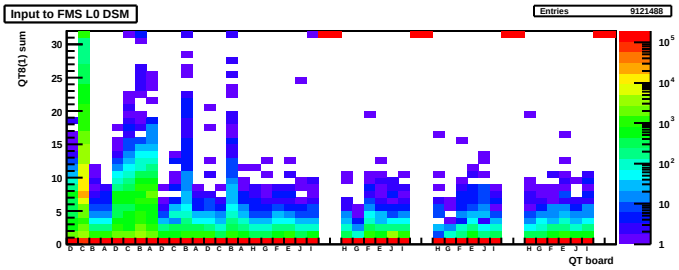

Input to QT2 crate
Entries1654879
ADC
channel

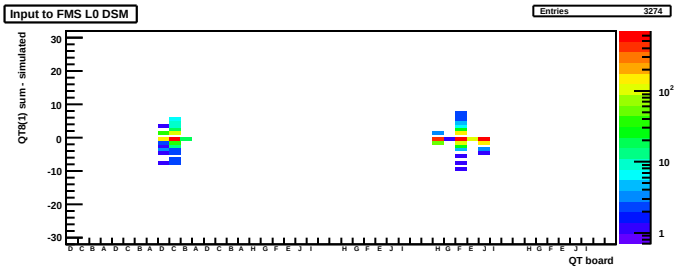

Input to QT3 crate
Entries1267193
ADC
channel

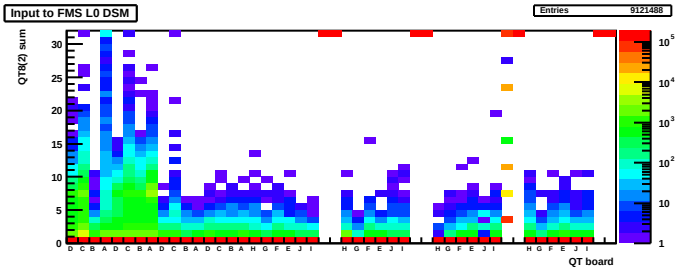

Input to QT4 crate
Entries 1549704
ADC
channel

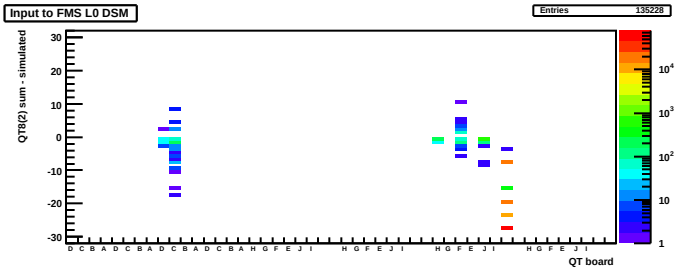

Input to FMS L0 DSM
Entries 9121488
QT8(0) sum
QT board

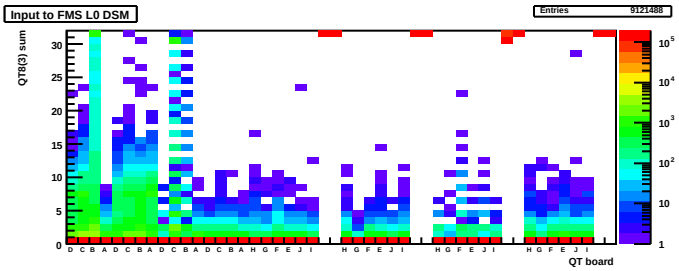

Input to FMS L0 DSM
Entries 191140
QT8(0) sum - simulated
QT board

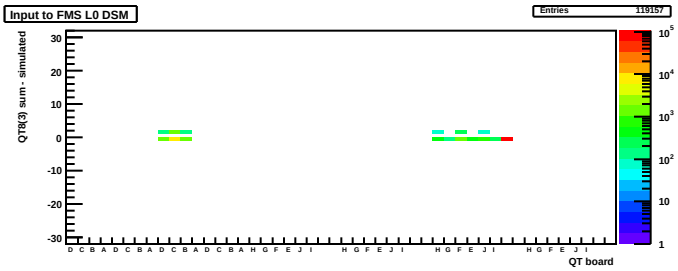

Input to FMS L0 DSM
Entries 9121488
QT8(1) sum
QT board

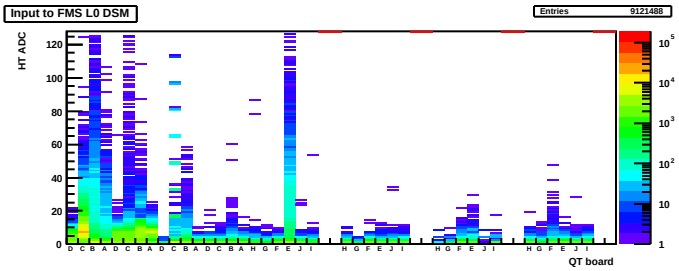

Input to FMS L0 DSM
Entries 3274
QT8(1) sum - simulated
QT board

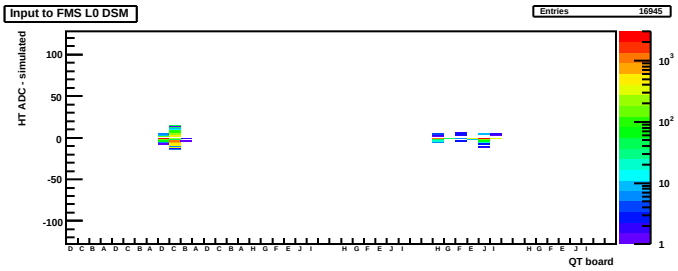

Input to FMS L0 DSM
Entries 9121488
QT8(2) sum
QT board

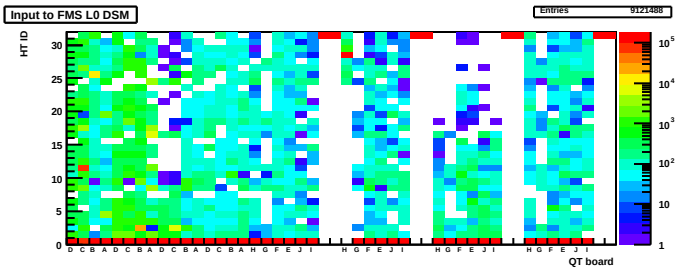

Input to FMS L0 DSM
Entries 135228
QT8(2) sum - simulated
QT board

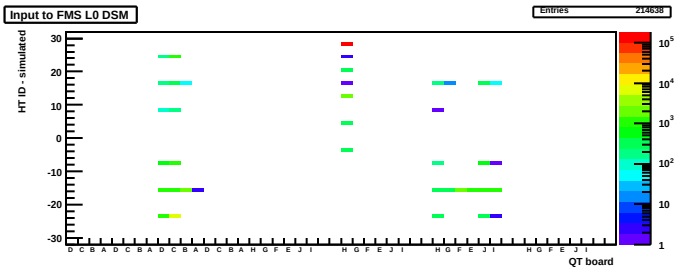

Input to FMS L0 DSM
Entries 9121488
QT8(3) sum
QT board

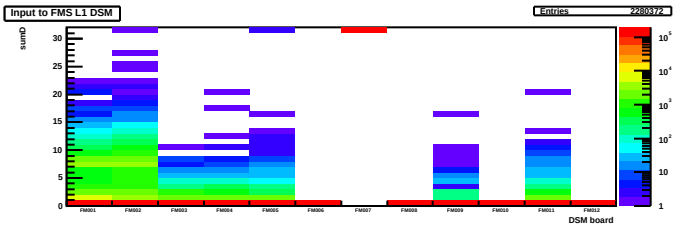

Input to FMS L0 DSM
Entries 119157
QT8(3) sum - simulated
QT board

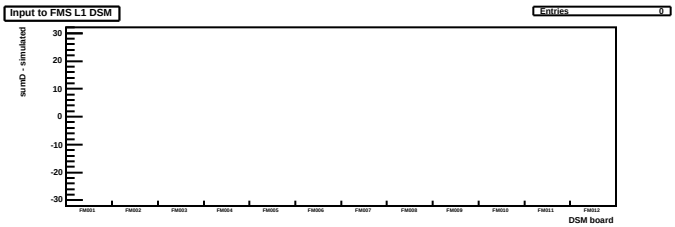

Input to FMS L0 DSM
Entries 9121488
HT ADC
QT board

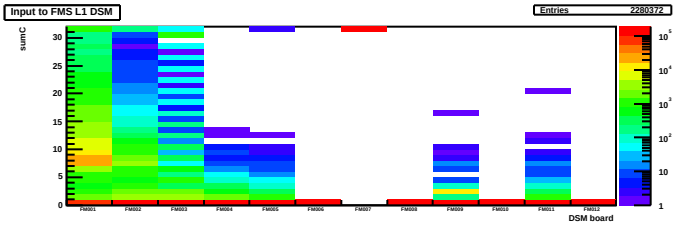

Input to FMS L0 DSM
Entries 16945
HT ADC - simulated
QT board

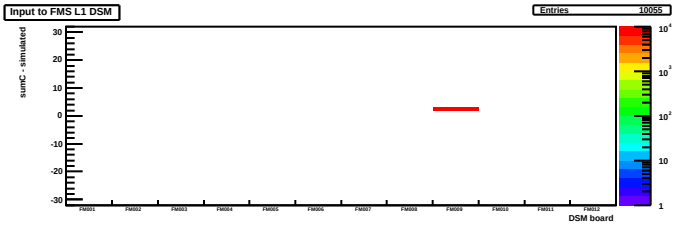

Input to FMS L0 DSM
Entries 9121488
HT ID
QT board

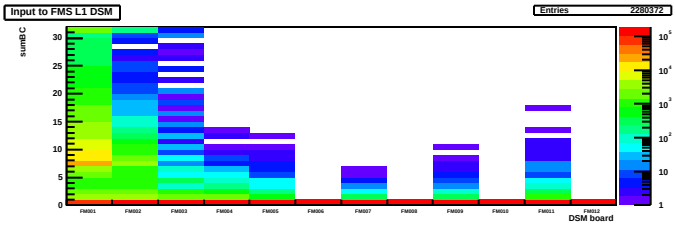

Input to FMS L0 DSM
Entries 214638
HT ID - simulated
QT board

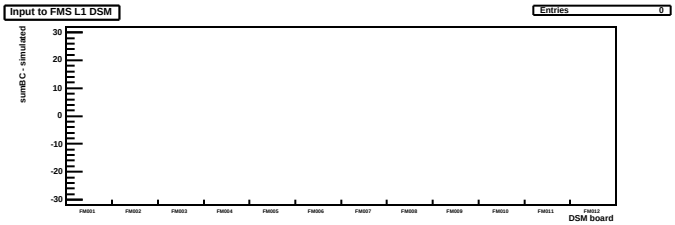

Input to FMS L1 DSM
Entries 2280372
sumD
DSM board

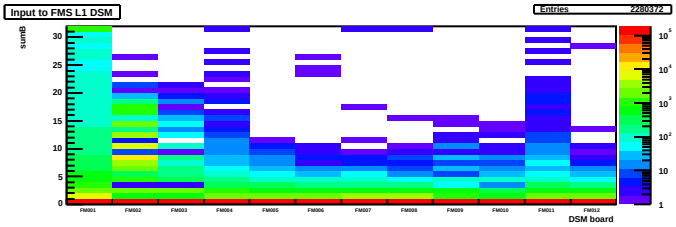

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

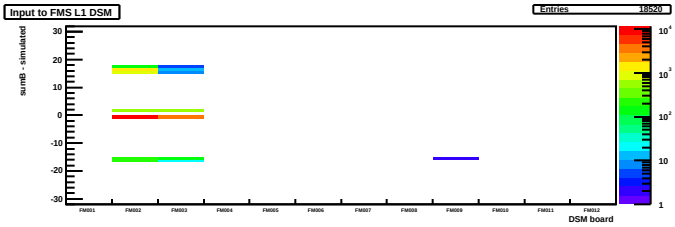

Input to FMS L1 DSM
Entries 2280372
sumC
DSM board

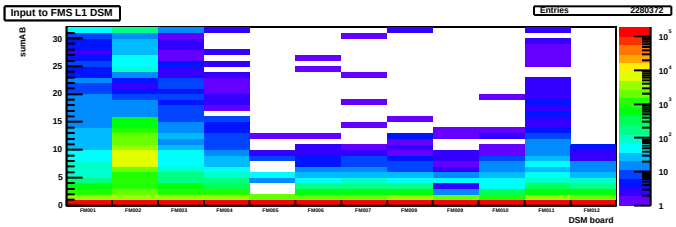

Input to FMS L1 DSM
Entries 10055
sumC - simulated
DSM board

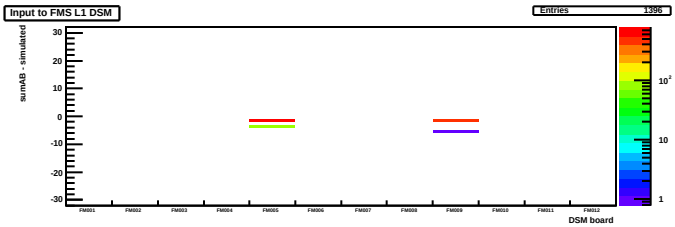

Input to FMS L1 DSM
Entries 2280372
sumBC
DSM board

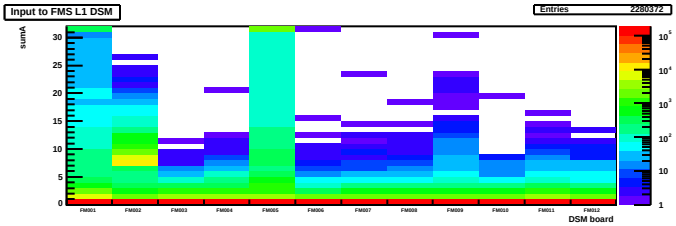

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

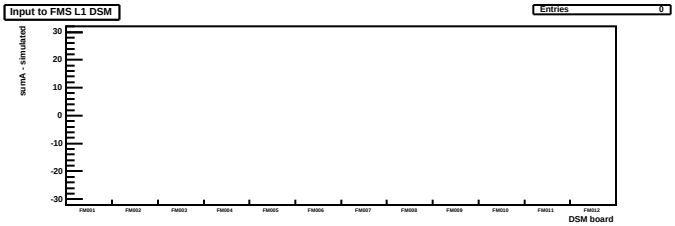

Input to FMS L1 DSM
Entries 2280372
sumB
DSM board

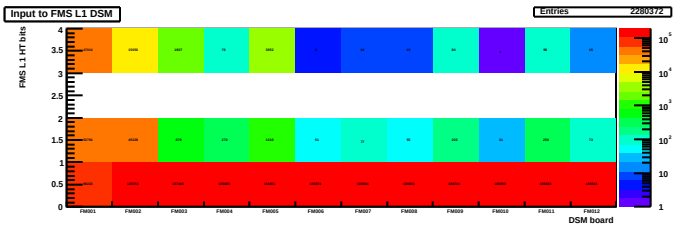

Input to FMS L1 DSM
Entries 18520
sumB - simulated
DSM board

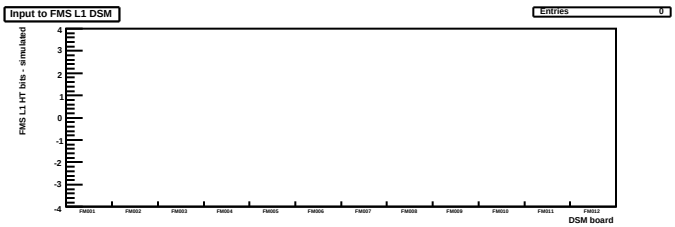

Input to FMS L1 DSM
Entries 2280372
sumAB
DSM board

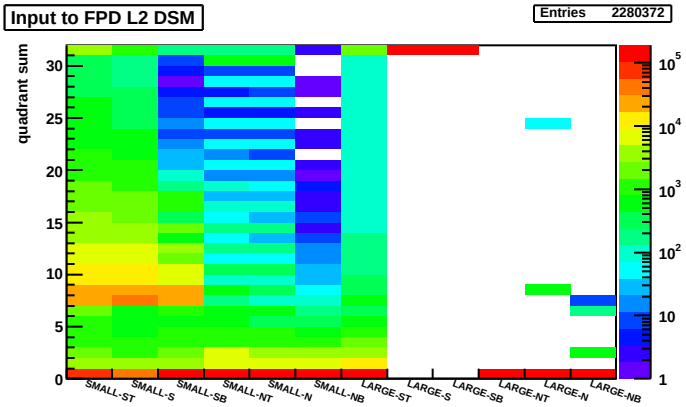

Input to FMS L1 DSM
Entries 1396
sumAB - simulated
DSM board

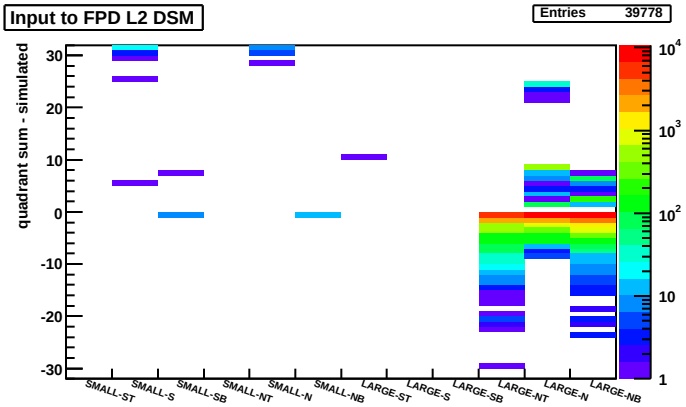

Input to FMS L1 DSM
Entries 2280372
sumA
DSM board

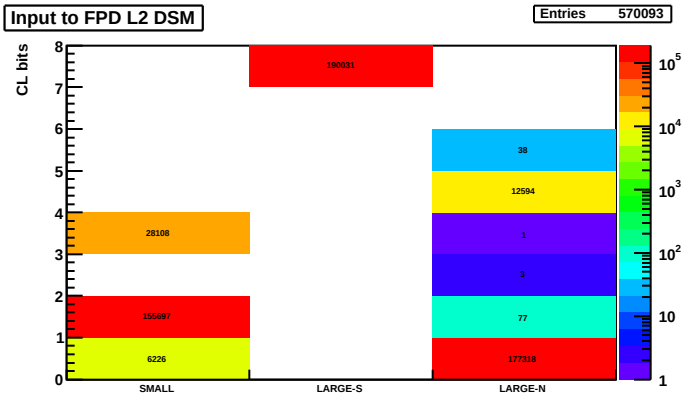

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

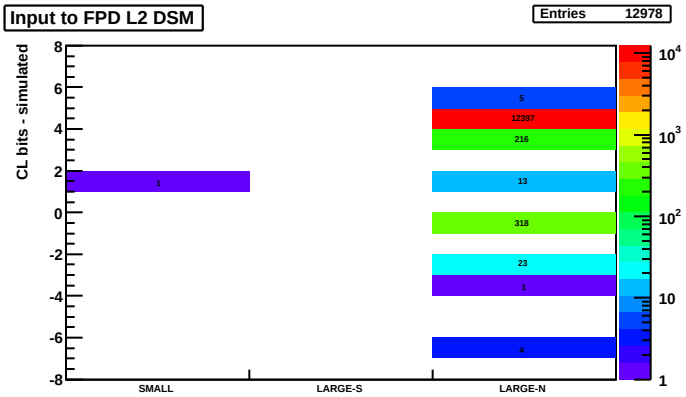

Input to FMS L1 DSM
Entries 2280372
FMS L1 HT bits
DSM board

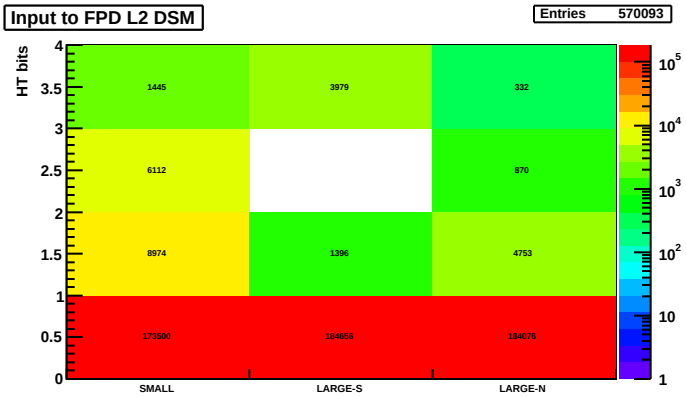

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

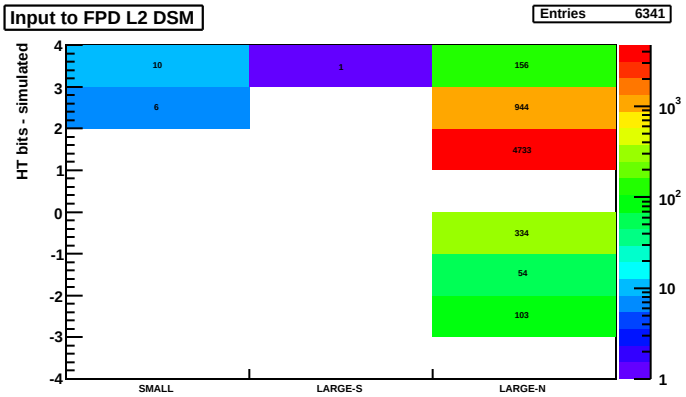

Input to FPD L2 DSM
Entries 2280372
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

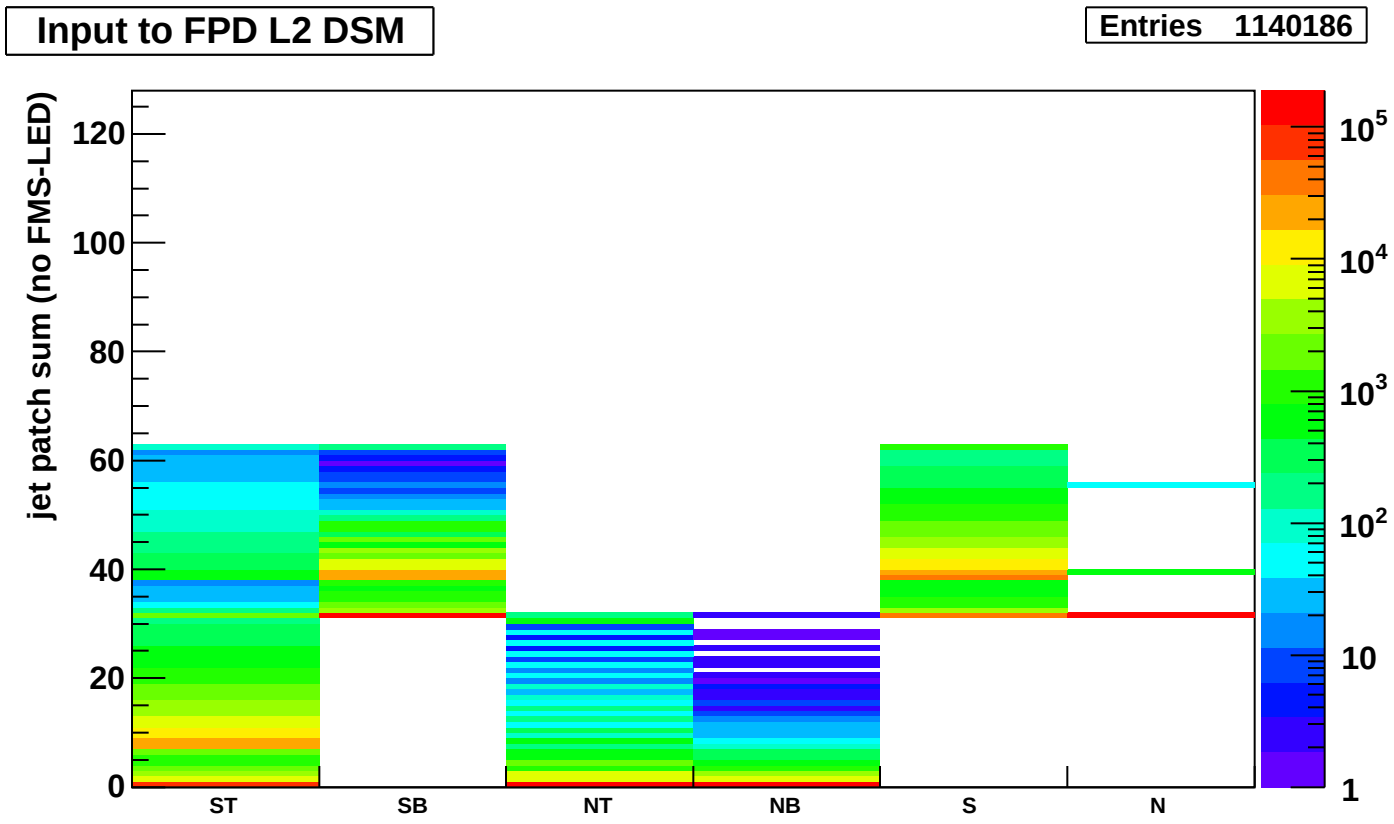

Input to FPD L2 DSM
Entries 39778
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

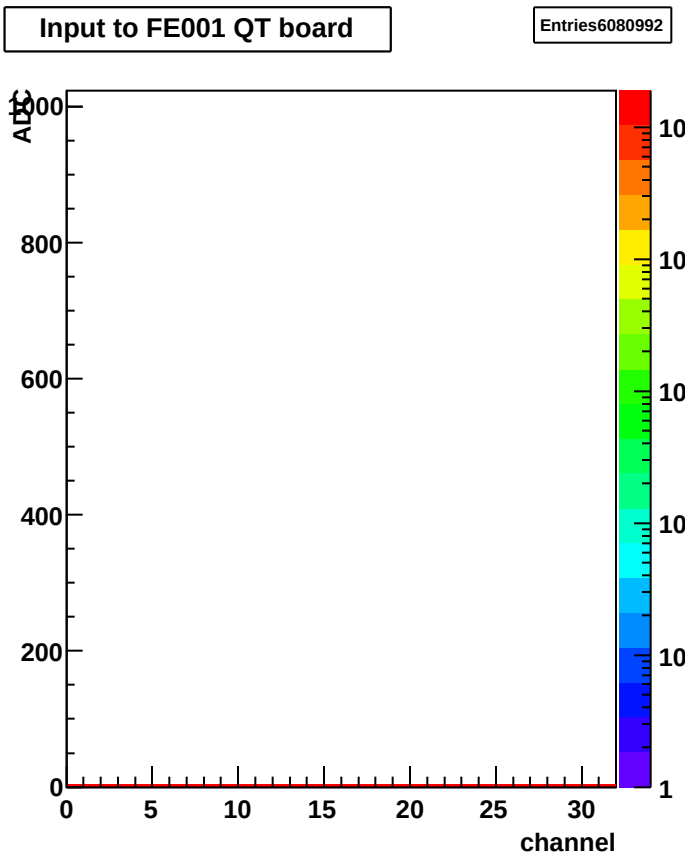

Input to FPD L2 DSM
Entries 570093
CL bits
190031
28108
155697
6226
38
12594
1
3
77
177318
SMALL
LARGE-S
LARGE-N

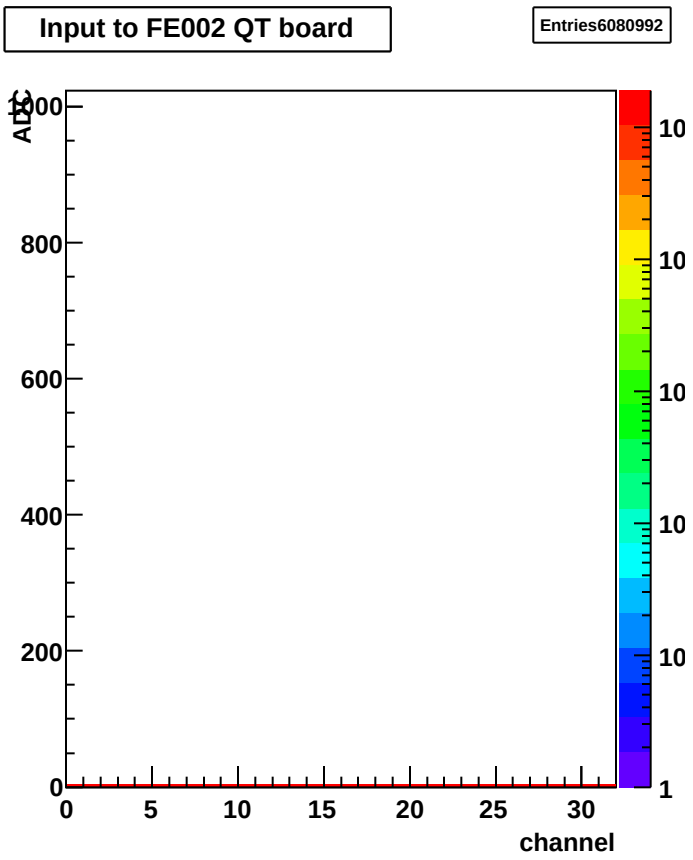

Input to FPD L2 DSM
Entries 12978
CL bits - simulated
1
5
12397
216
13
318
23
1
4
SMALL
LARGE-S
LARGE-N

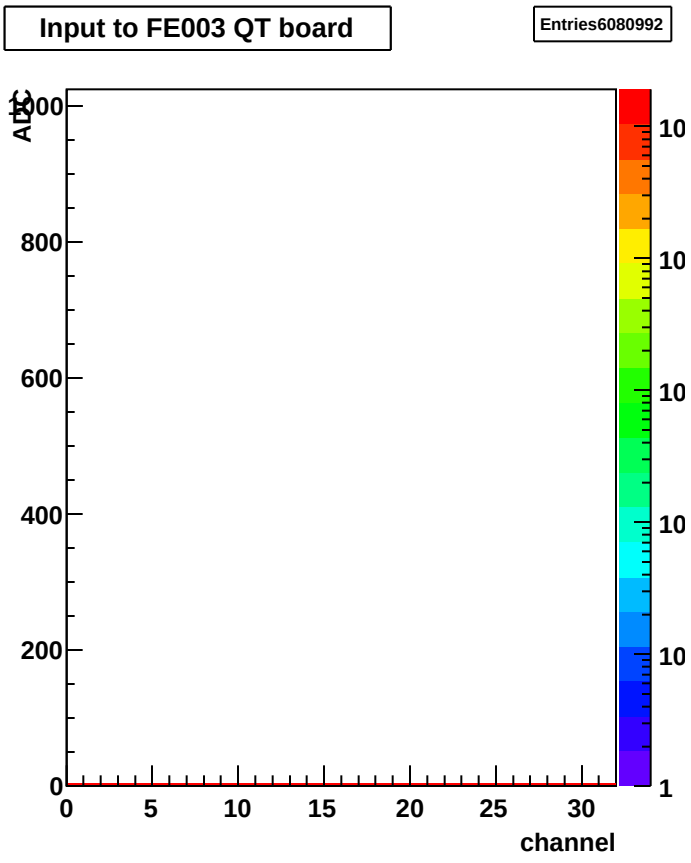

Input to FPD L2 DSM
Entries 570093
HT bits
1445
3979
332
6112
870
8974
1396
4753
173500
184656
184076
SMALL
LARGE-S
LARGE-N

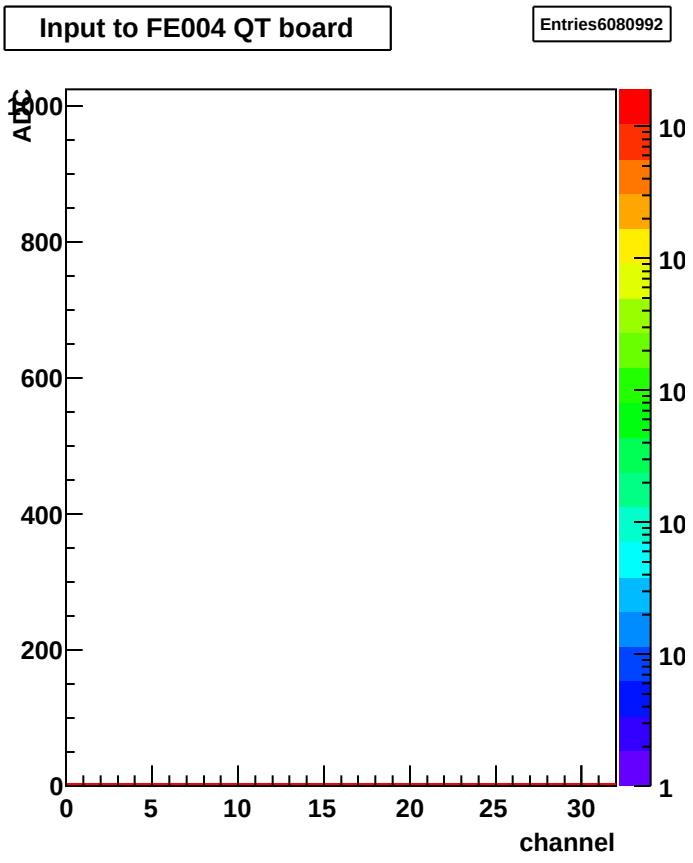

Input to FPD L2 DSM
Entries 6341
HT bits - simulated
10
1
156
6
944
4733
334
54
103
SMALL
LARGE-S
LARGE-N

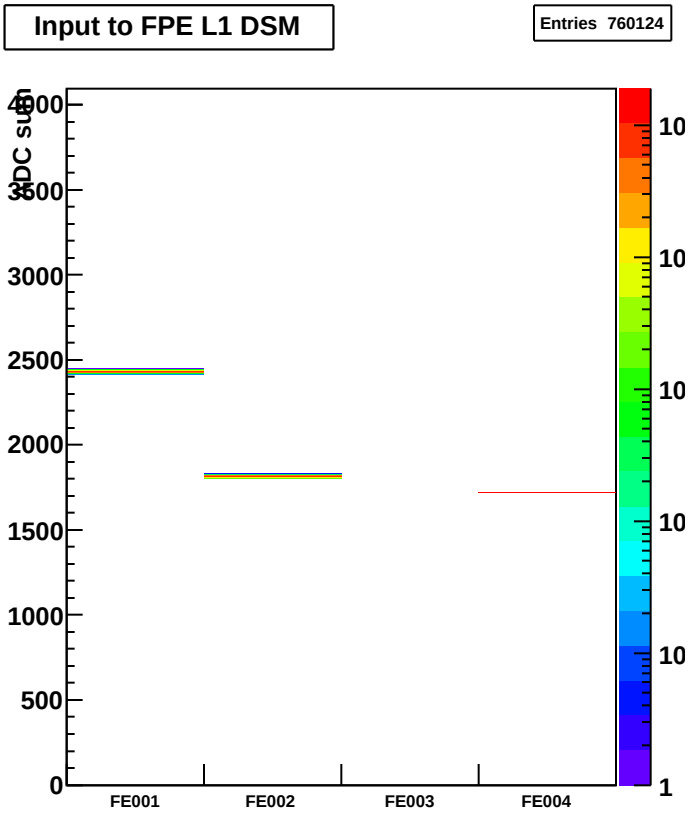

Input to FPD L2 DSM
Entries 1140186
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

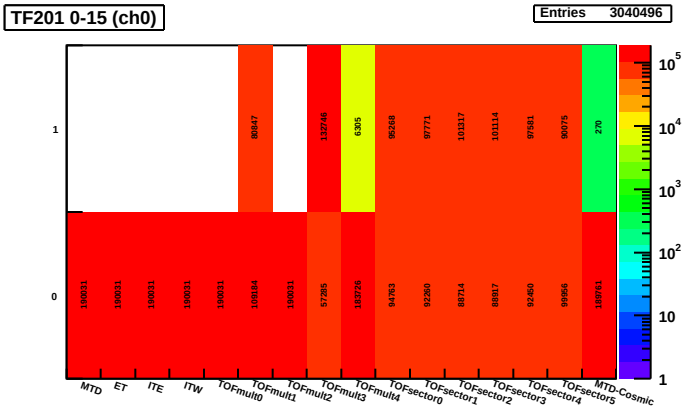

Input to FE001 QT board
Entries6080992
ADC
channel

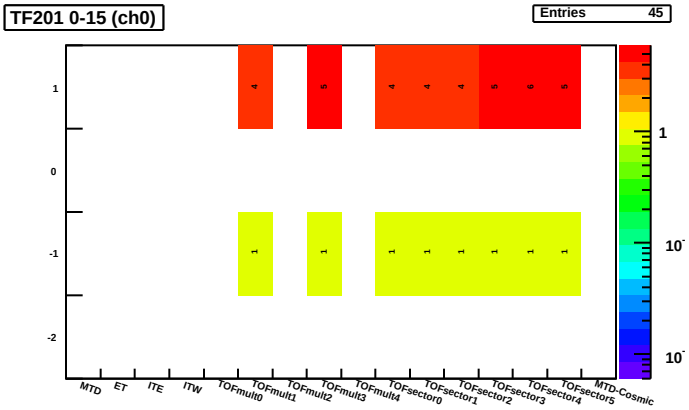

Input to FE002 QT board
Entries6080992
ADC
channel

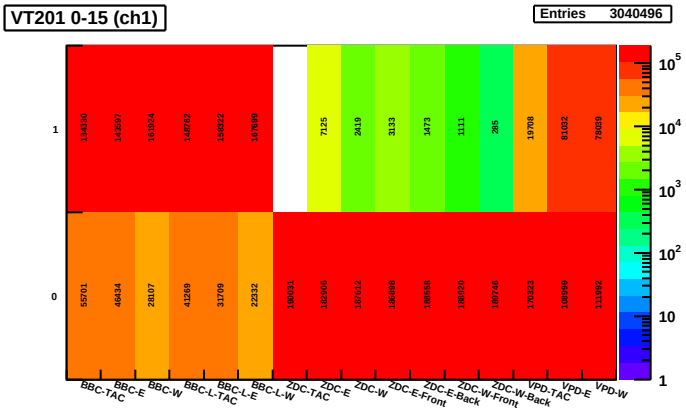

Input to FE003 QT board
Entries6080992
ADC
channel

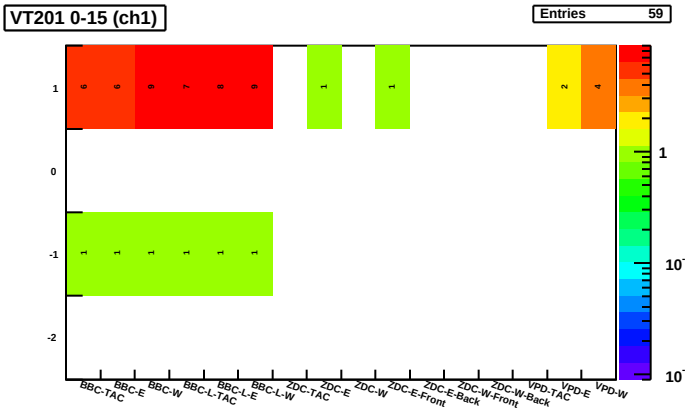

Input to FE004 QT board
Entries6080992
ADC
channel

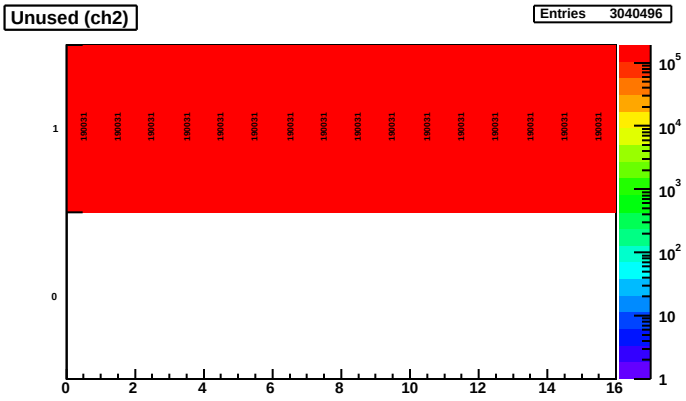

Input to FPE L1 DSM
Entries 760124
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

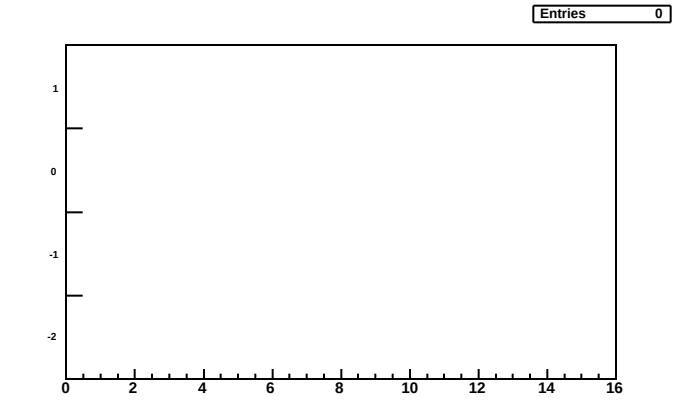

TF201 0-15 (ch0)
Entries 3040496
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

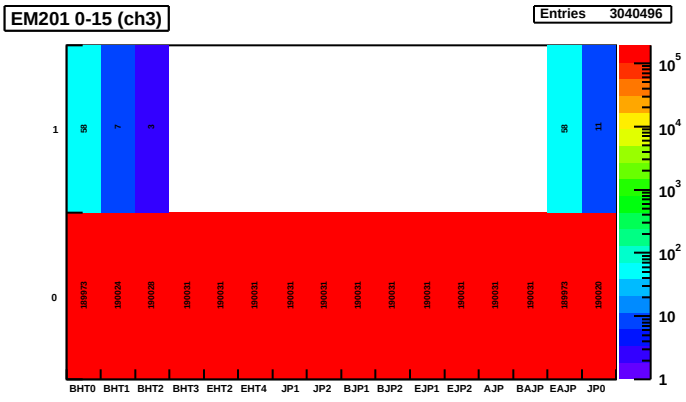

TF201 0-15 (ch0)
Entries 45
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

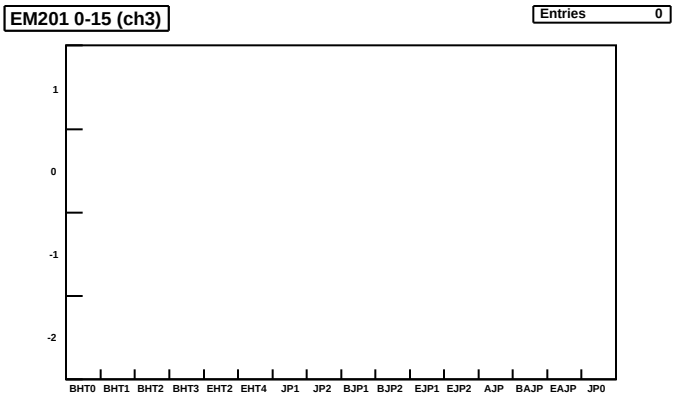

VT201 0-15 (ch1)
Entries 3040496
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

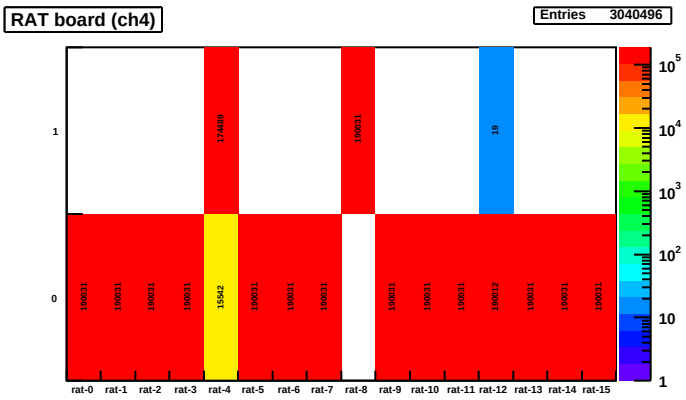

VT201 0-15 (ch1)
Entries 59
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

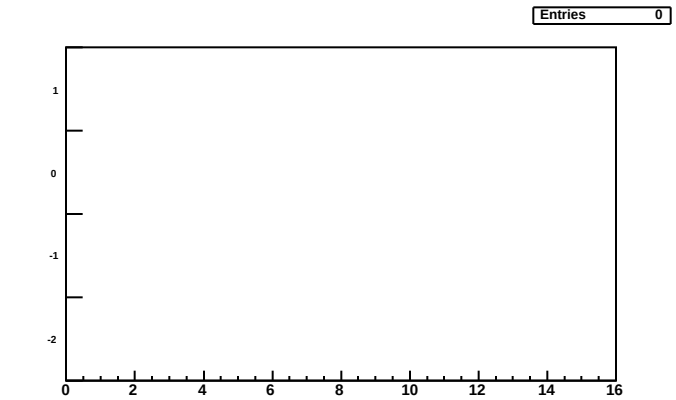

Unused (ch2)
Entries 3040496

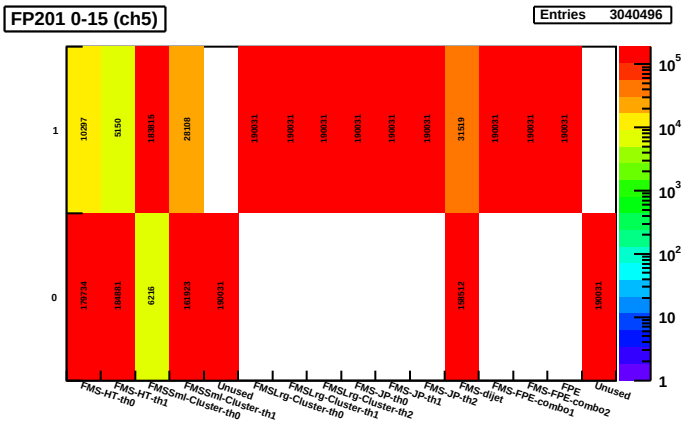

Entries 0

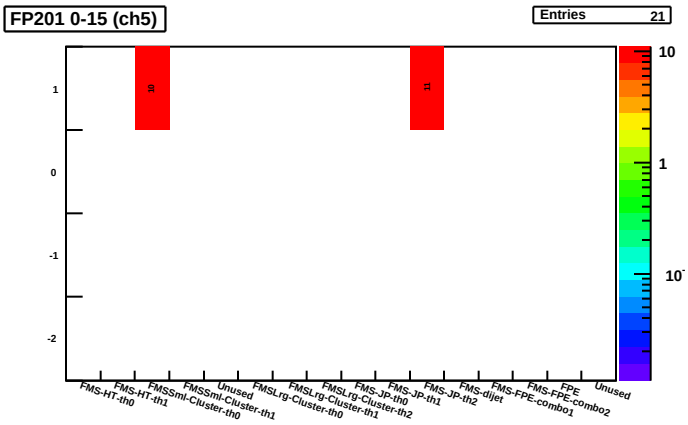

EM201 0-15 (ch3)
Entries 3040496
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

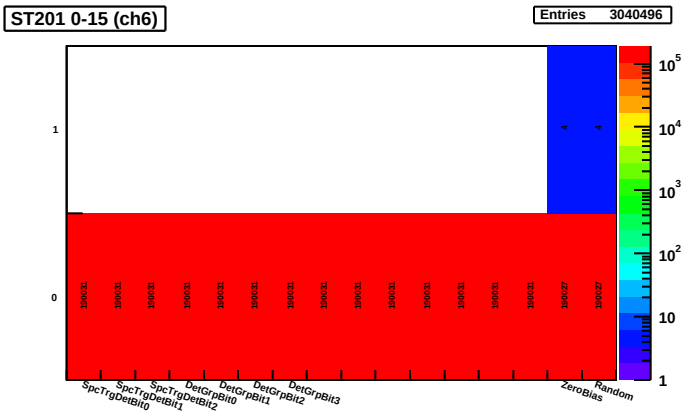

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

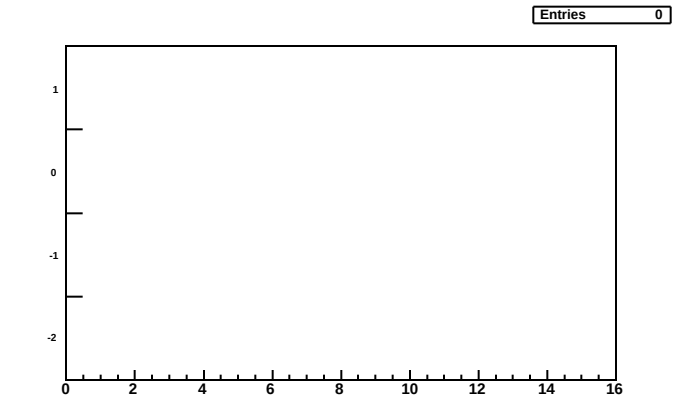

RAT board (ch4)
Entries 3040496
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

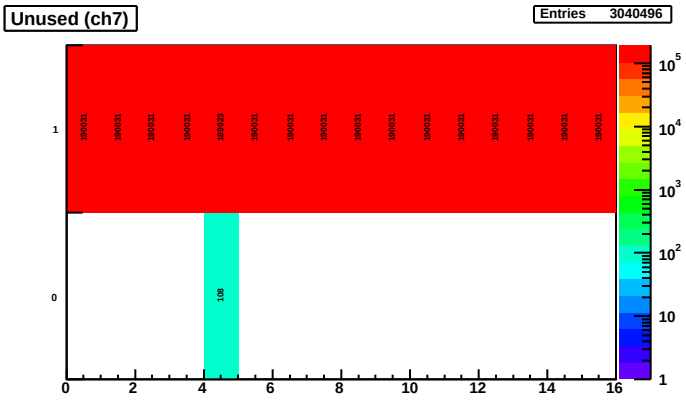

Entries 0

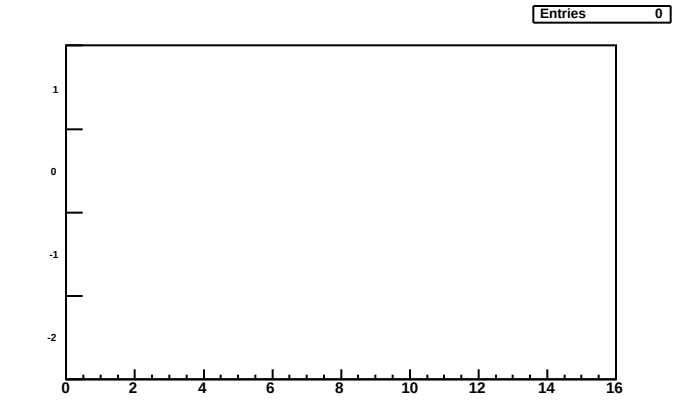

FP201 0-15 (ch5)
Entries 3040496
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 Unused FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-dijet FMS-FPE-combo1 FMS-FPE-combo2 FPE Unused


FP201 0-15 (ch5)
Entries 21
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 Unused FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-dijet FMS-FPE-combo1 FMS-FPE-combo2 FPE Unused


ST201 0-15 (ch6)
Entries 3040496
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random


Entries 0


Unused (ch7)
Entries 3040496


Entries 0