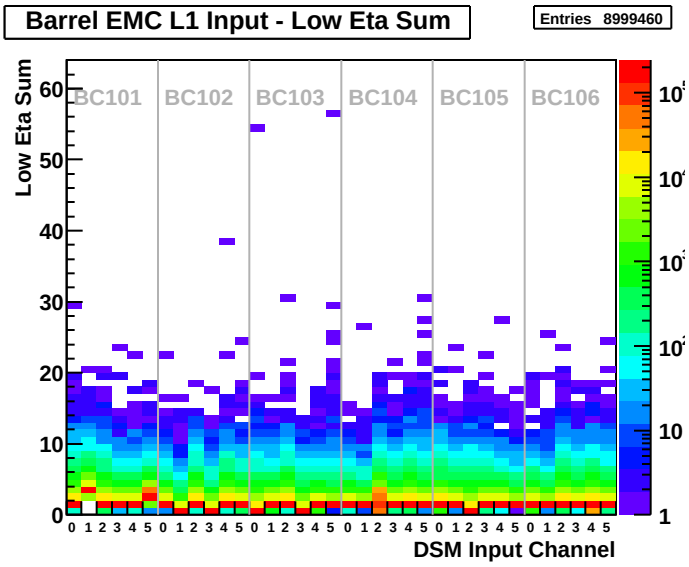
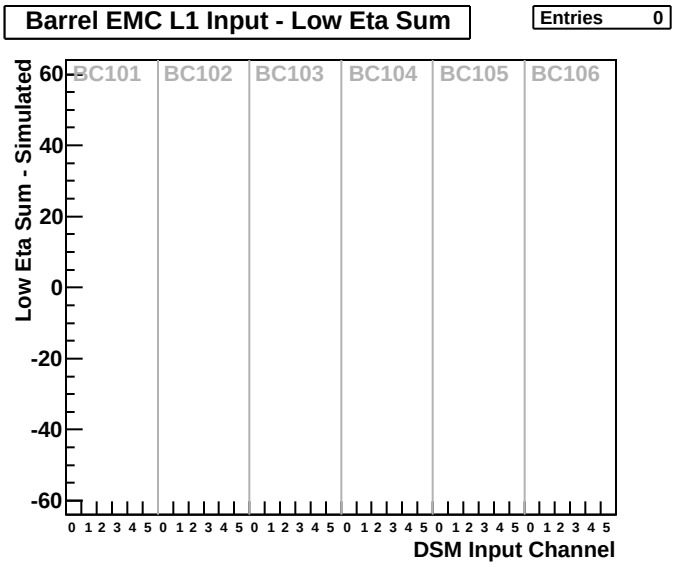
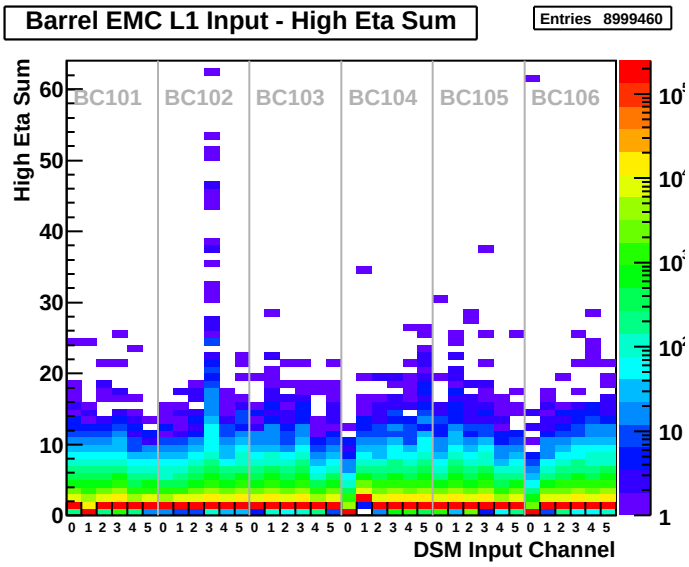
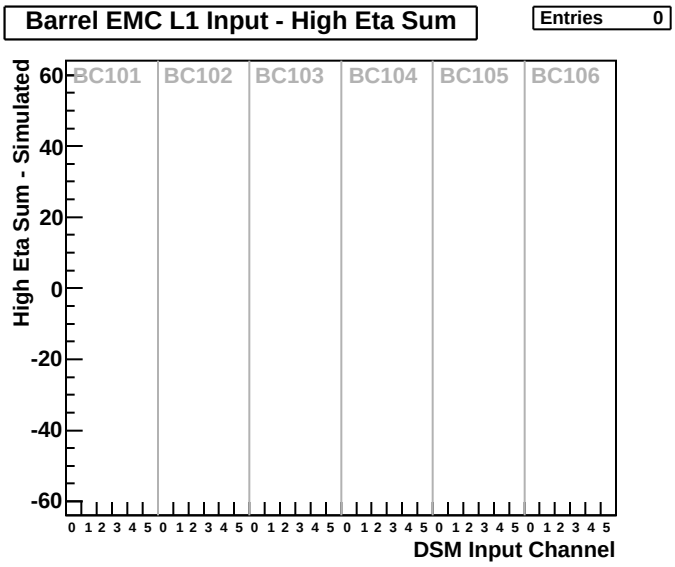
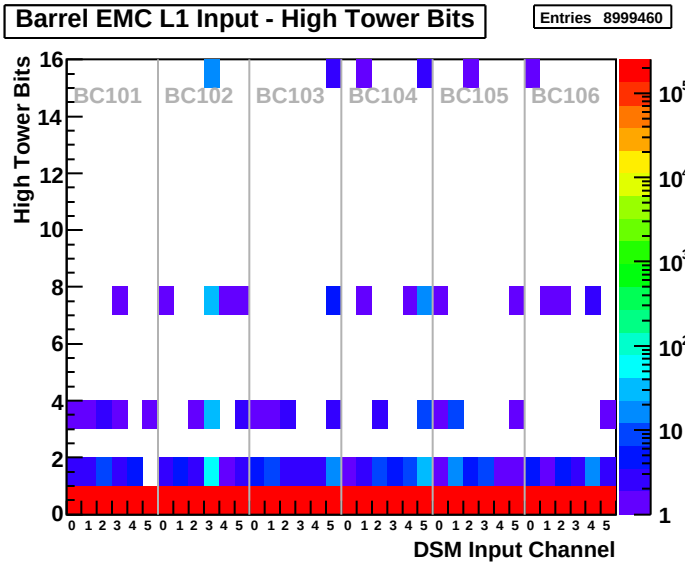
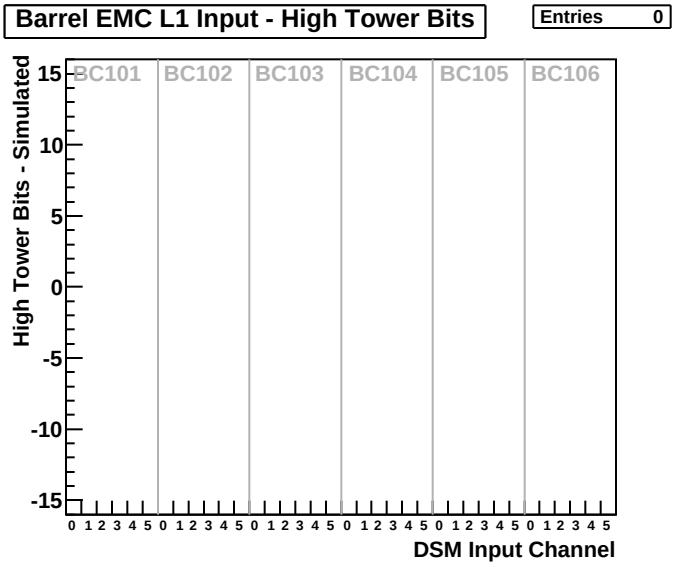

Barrel EMC L1 Input - Low Eta Sum
Entries 8999460
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

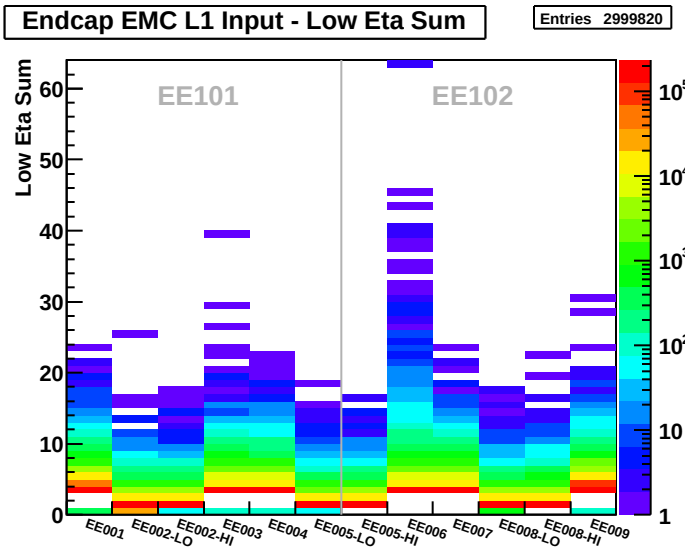

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

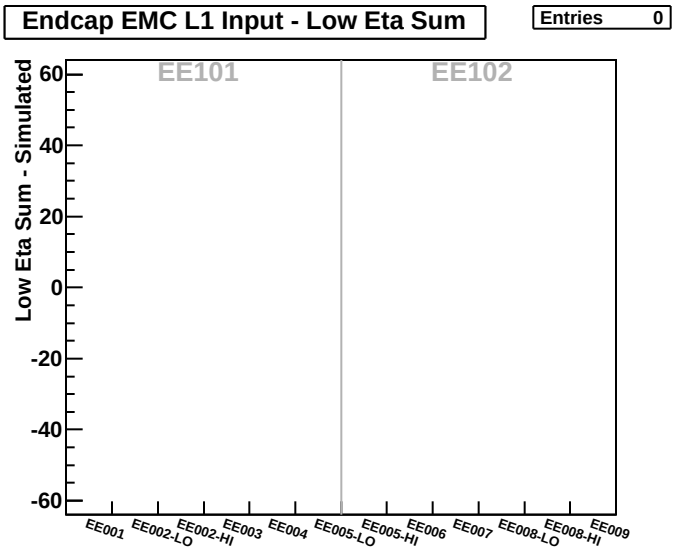

Barrel EMC L1 Input - High Eta Sum
Entries 8999460
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

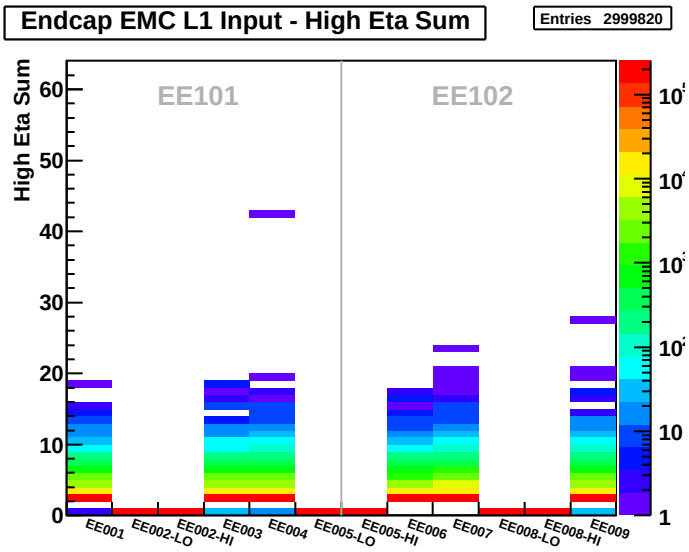

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

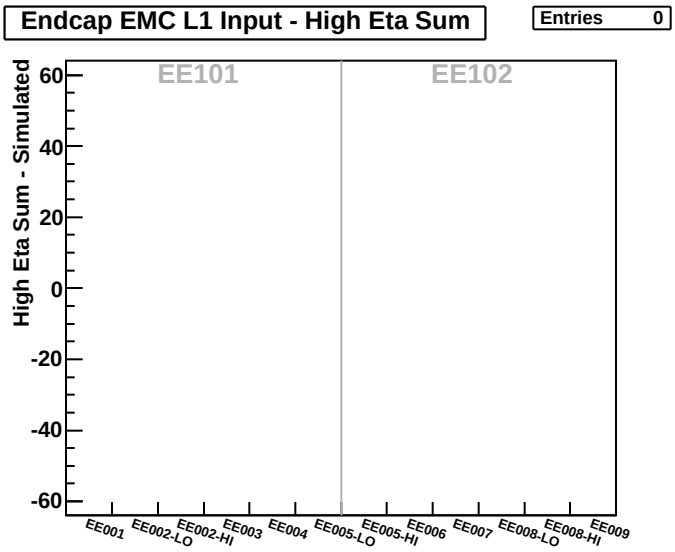

Barrel EMC L1 Input - High Tower Bits
Entries 8999460
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

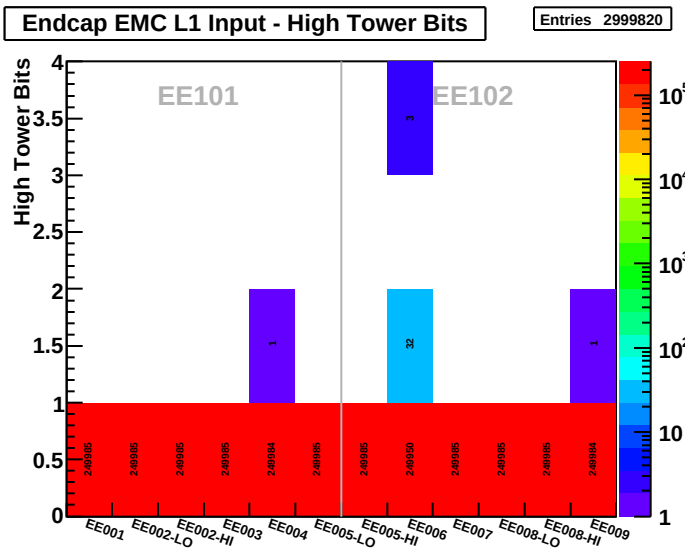

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

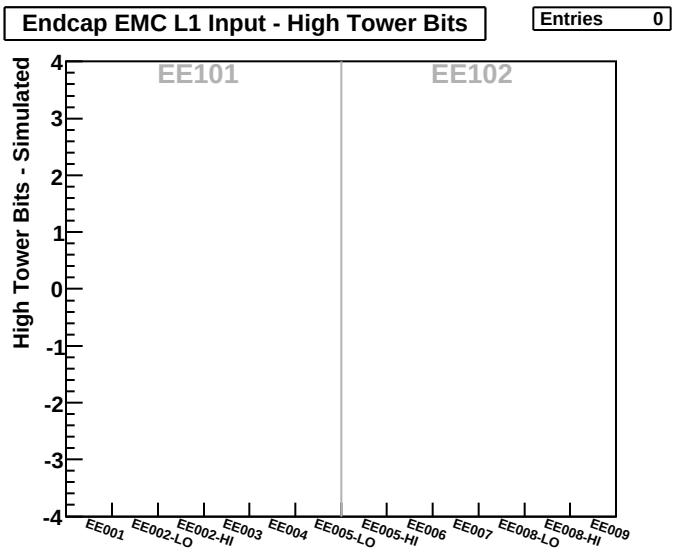

Endcap EMC L1 Input - Low Eta Sum
Entries 2999820
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

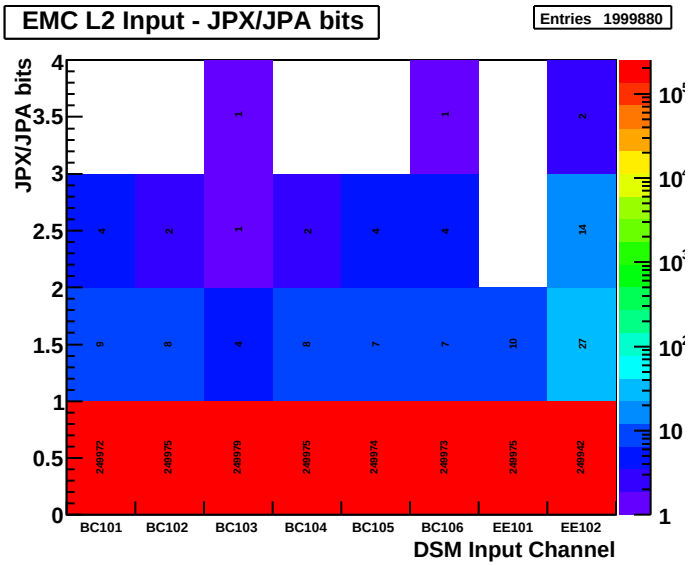

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

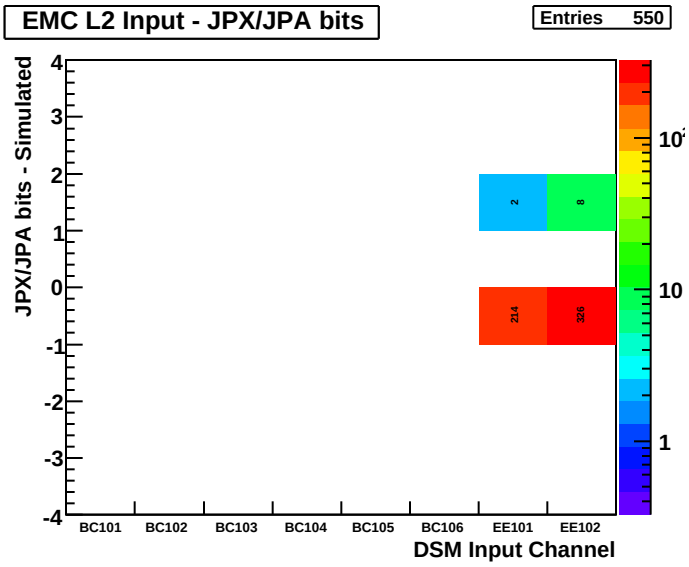

Endcap EMC L1 Input - High Eta Sum
Entries 2999820
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

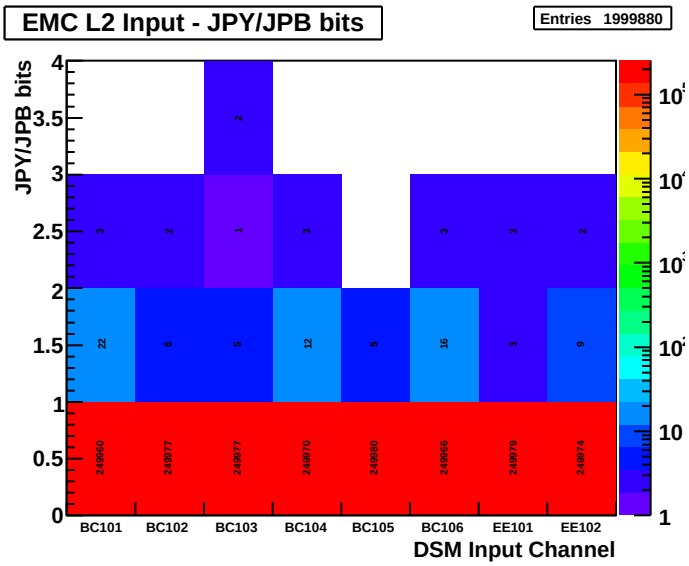

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

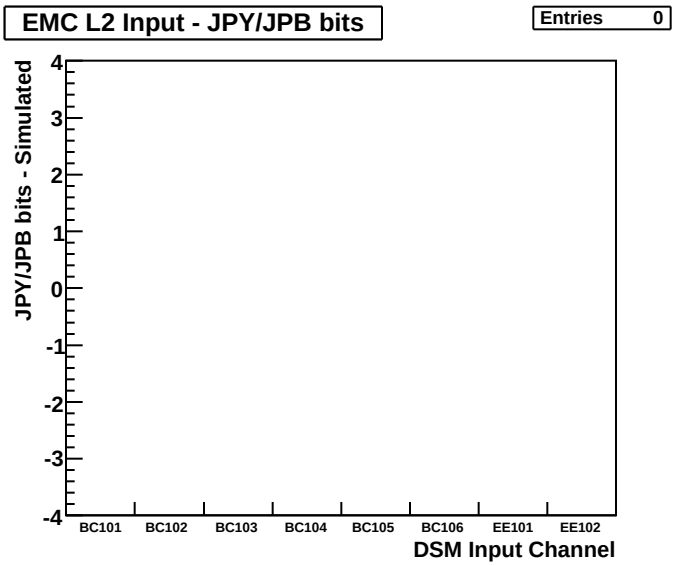

Endcap EMC L1 Input - High Tower Bits
Entries 2999820
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

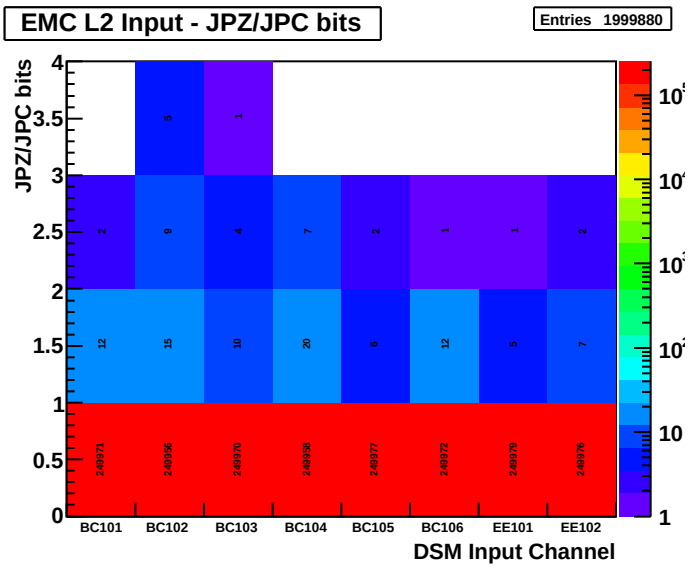

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

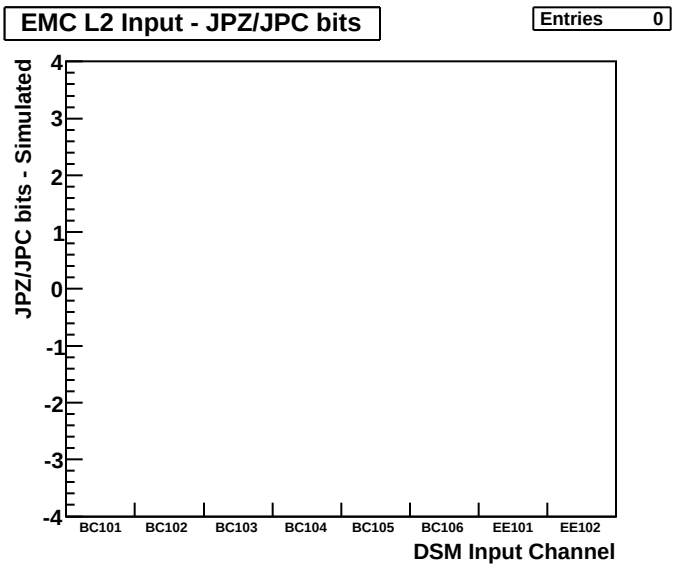

EMC L2 Input - JPX/JPA bits
Entries 1999880
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

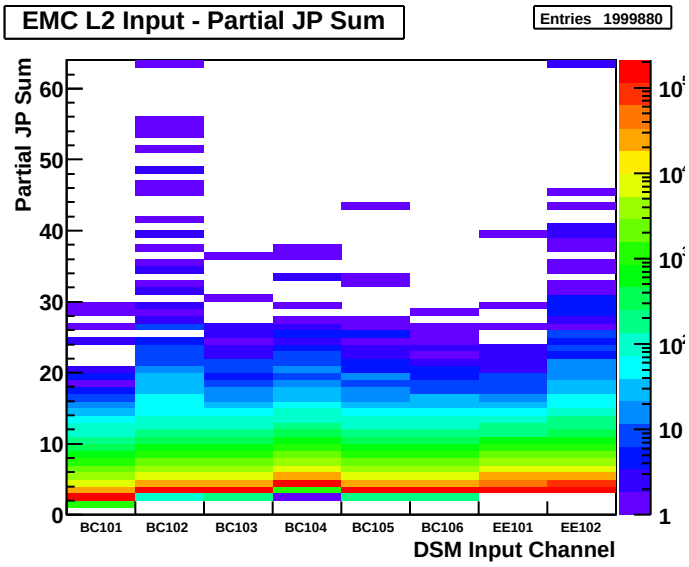

EMC L2 Input - JPX/JPA bits
Entries 550
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

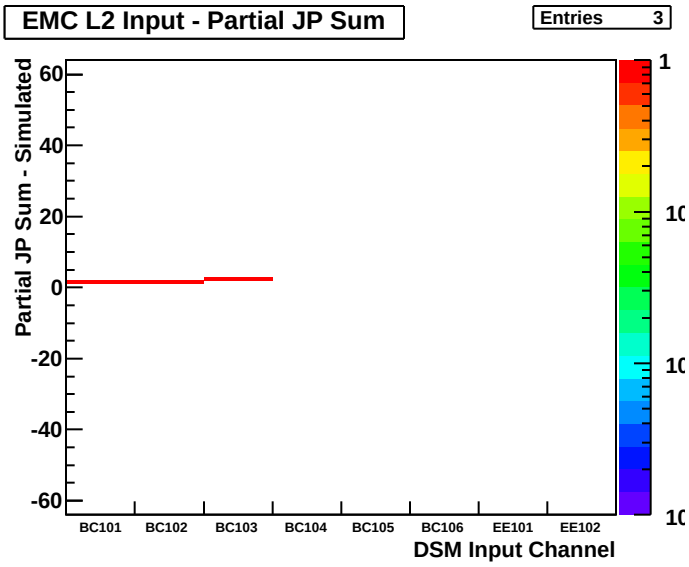

EMC L2 Input - JPY/JPB bits
Entries 1999880
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

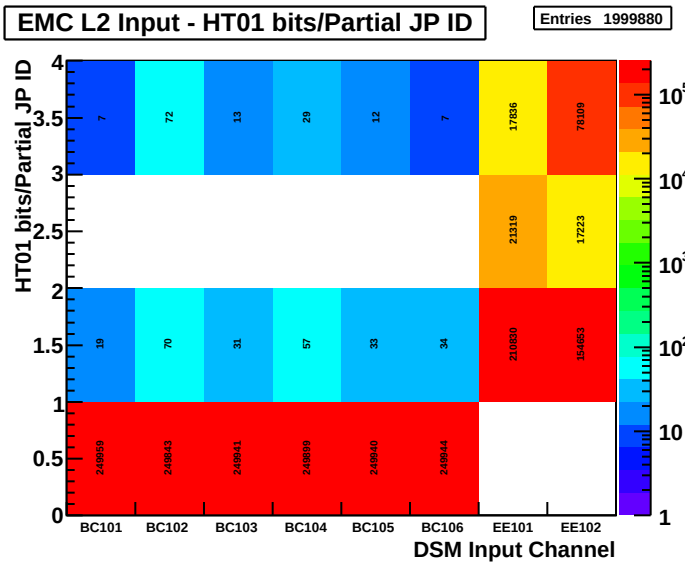

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

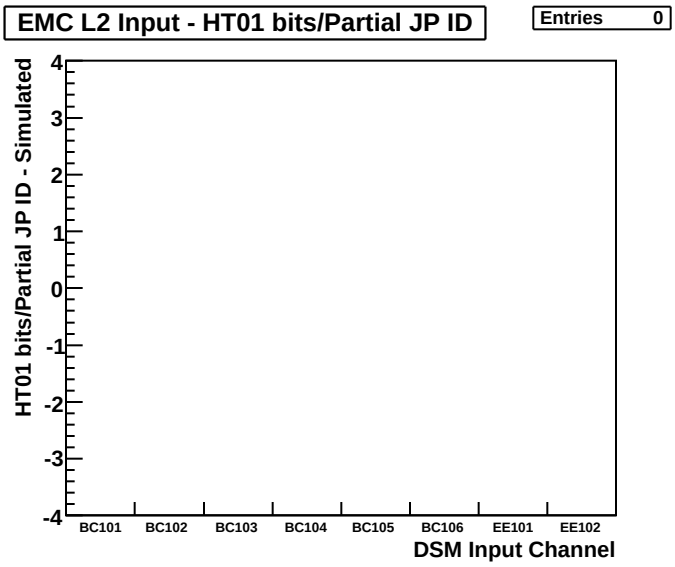

EMC L2 Input - JPZ/JPC bits
Entries 1999880
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

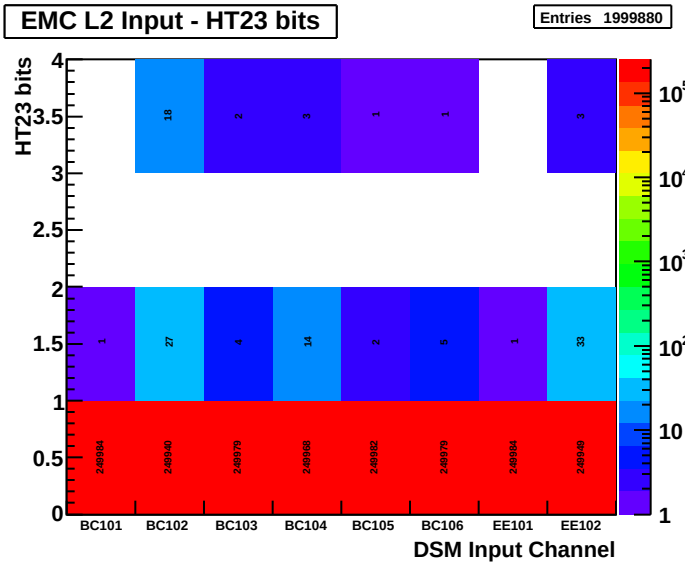

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

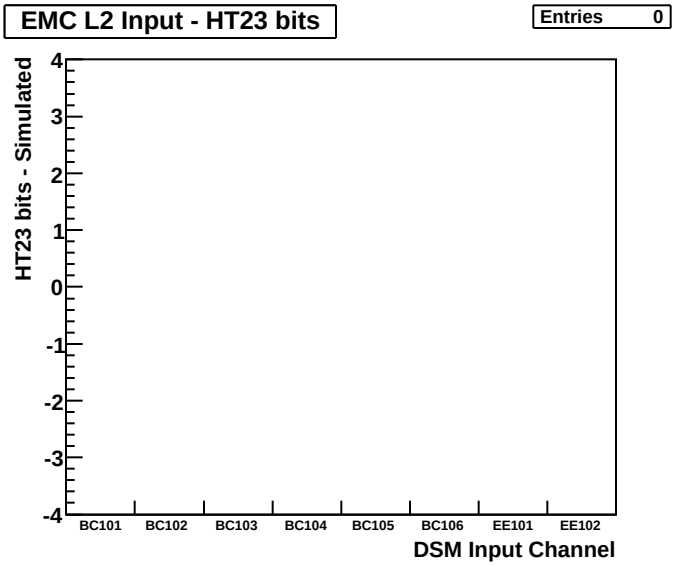

EMC L2 Input - Partial JP Sum
Entries 1999880
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

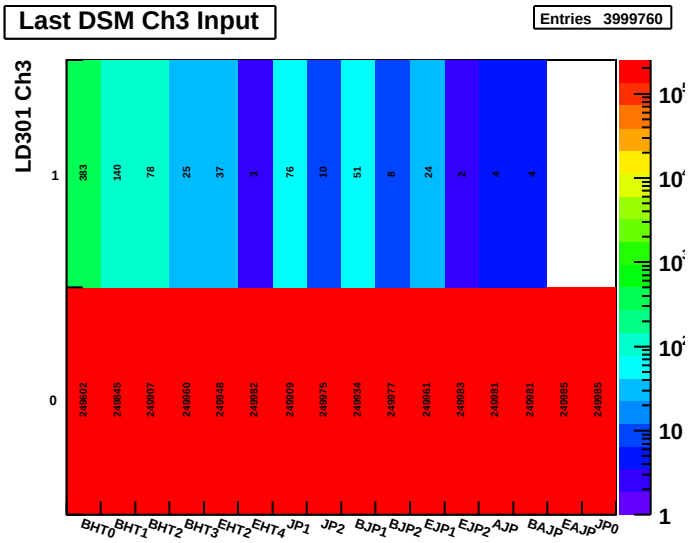

EMC L2 Input - Partial JP Sum
Entries 3
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

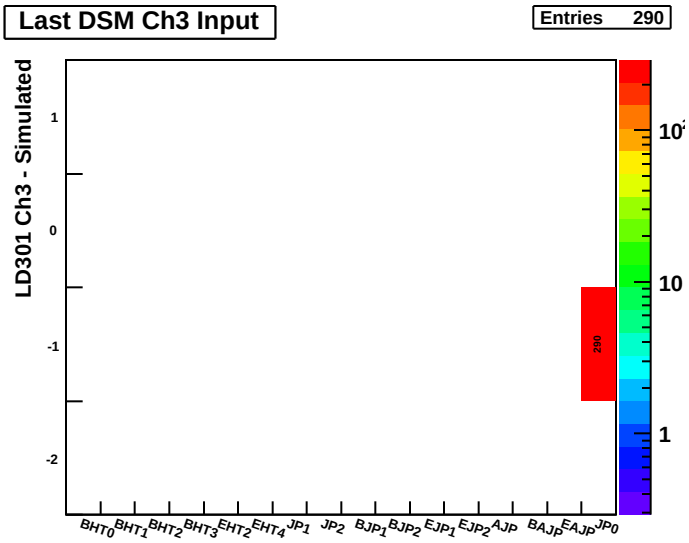

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1999880
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

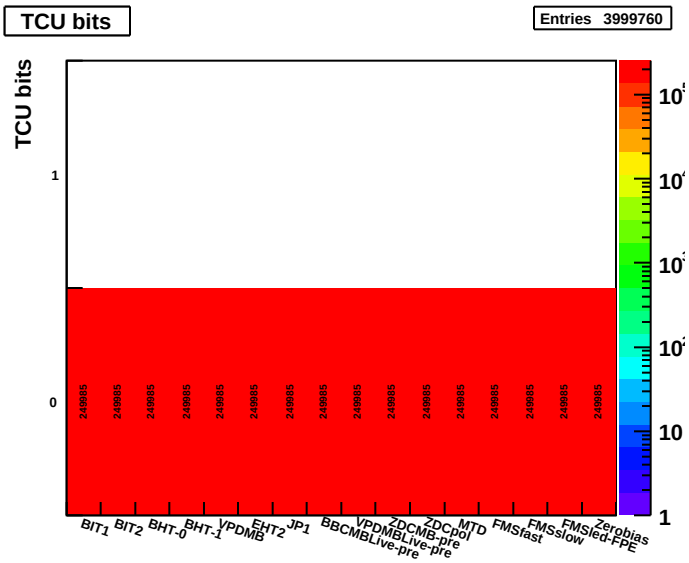

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

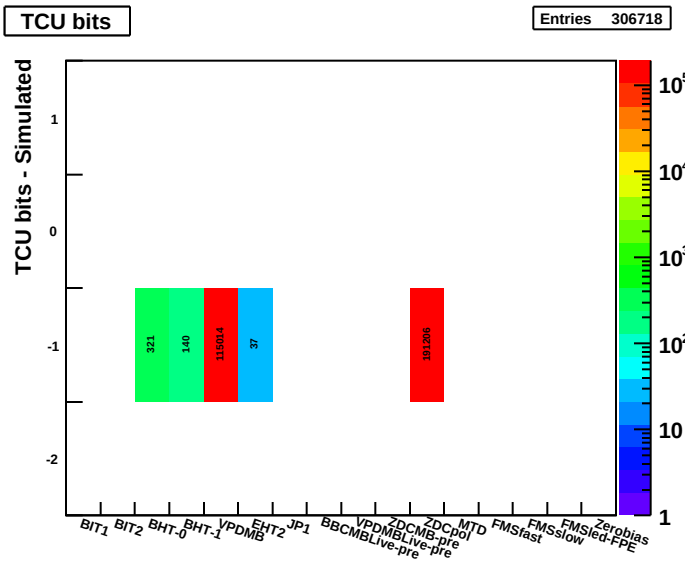

EMC L2 Input - HT23 bits
Entries 1999880
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

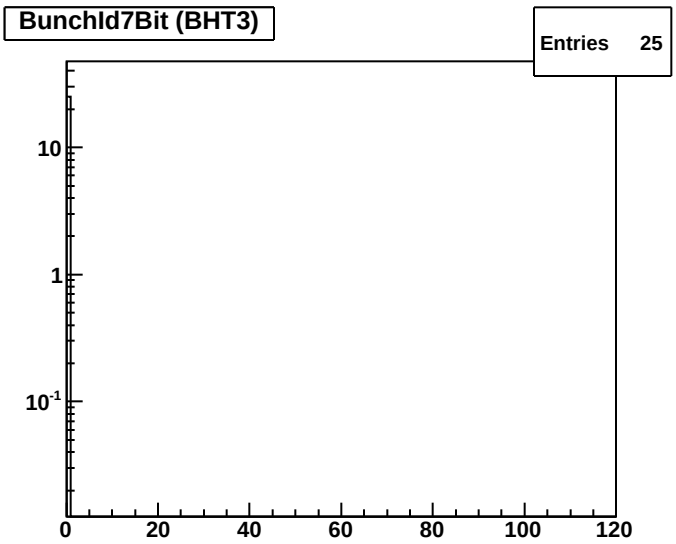

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

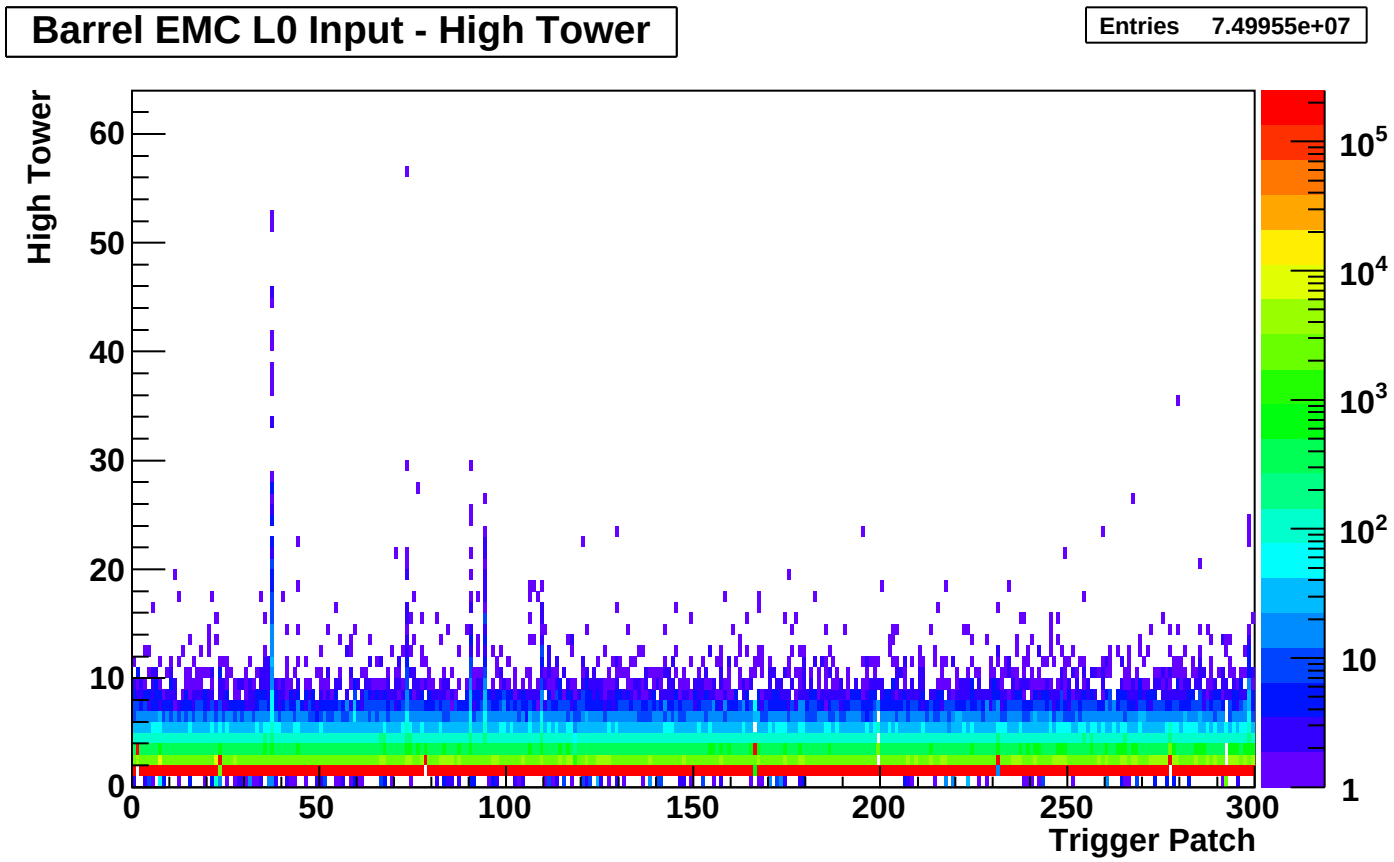

Last DSM Ch3 Input
Entries 3999760
LD301 Ch3
1
0
383 140 78 25 37 3 76 10 51 8 24 2 4 4
249602 249845 249907 249960 249948 249962 249909 249975 249934 249977 249961 249983 249981 249981 249955 249985
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0
1

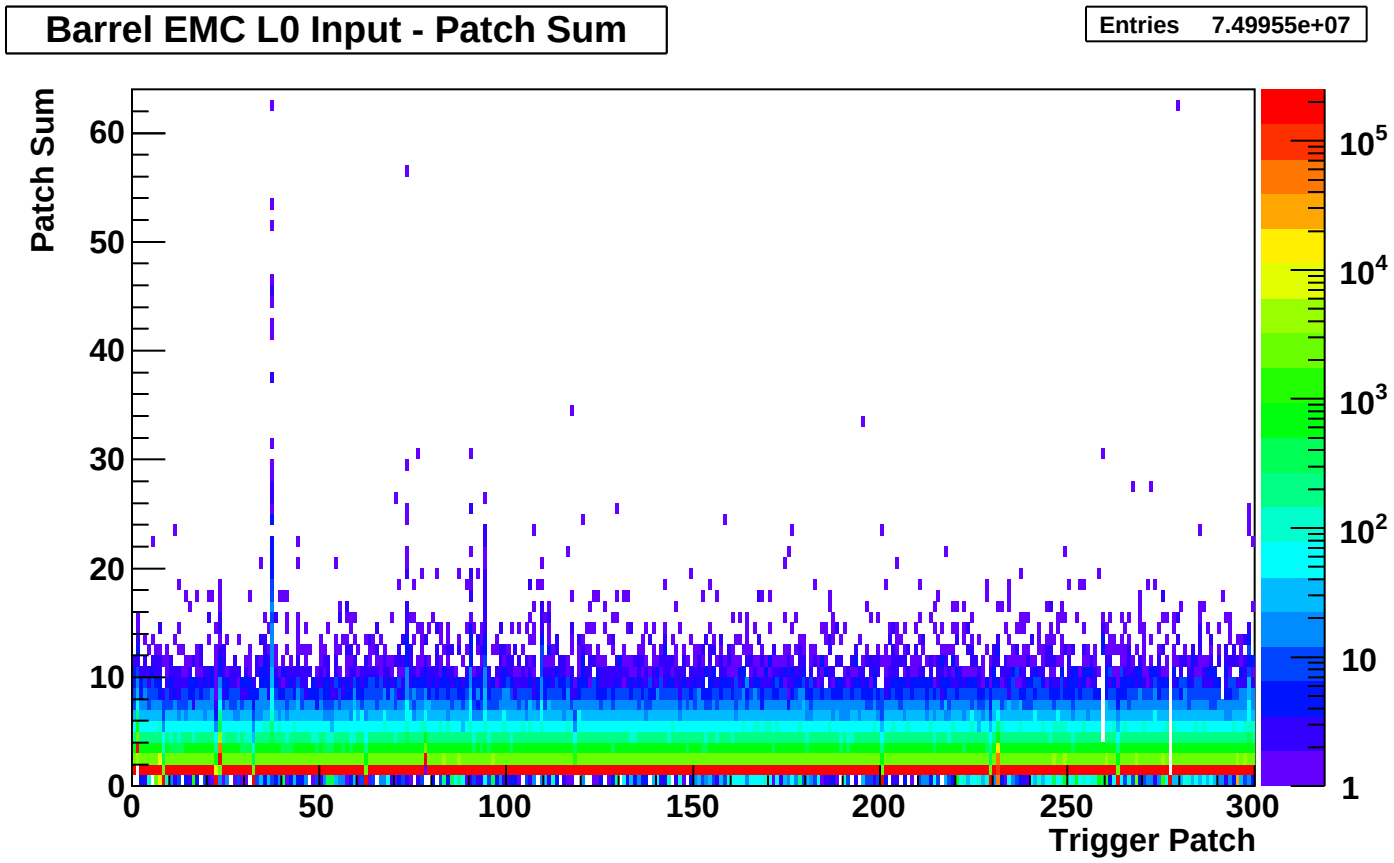

Last DSM Ch3 Input
Entries 290
LD301 Ch3 - Simulated
1
0
-1
-2
290
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0
10
1

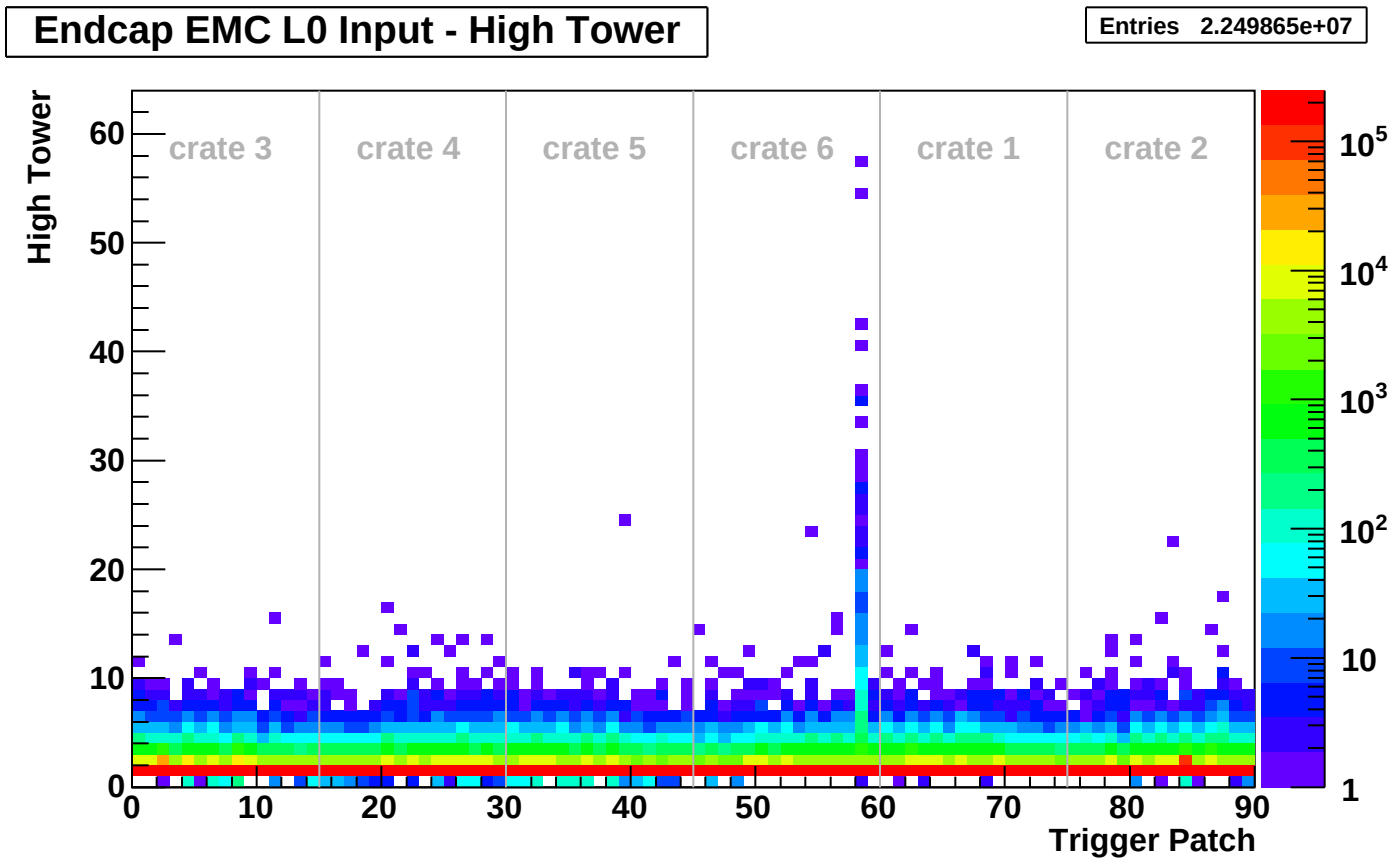

TCU bits
Entries 3999760
TCU bits
1
0
249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985 249985
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
1

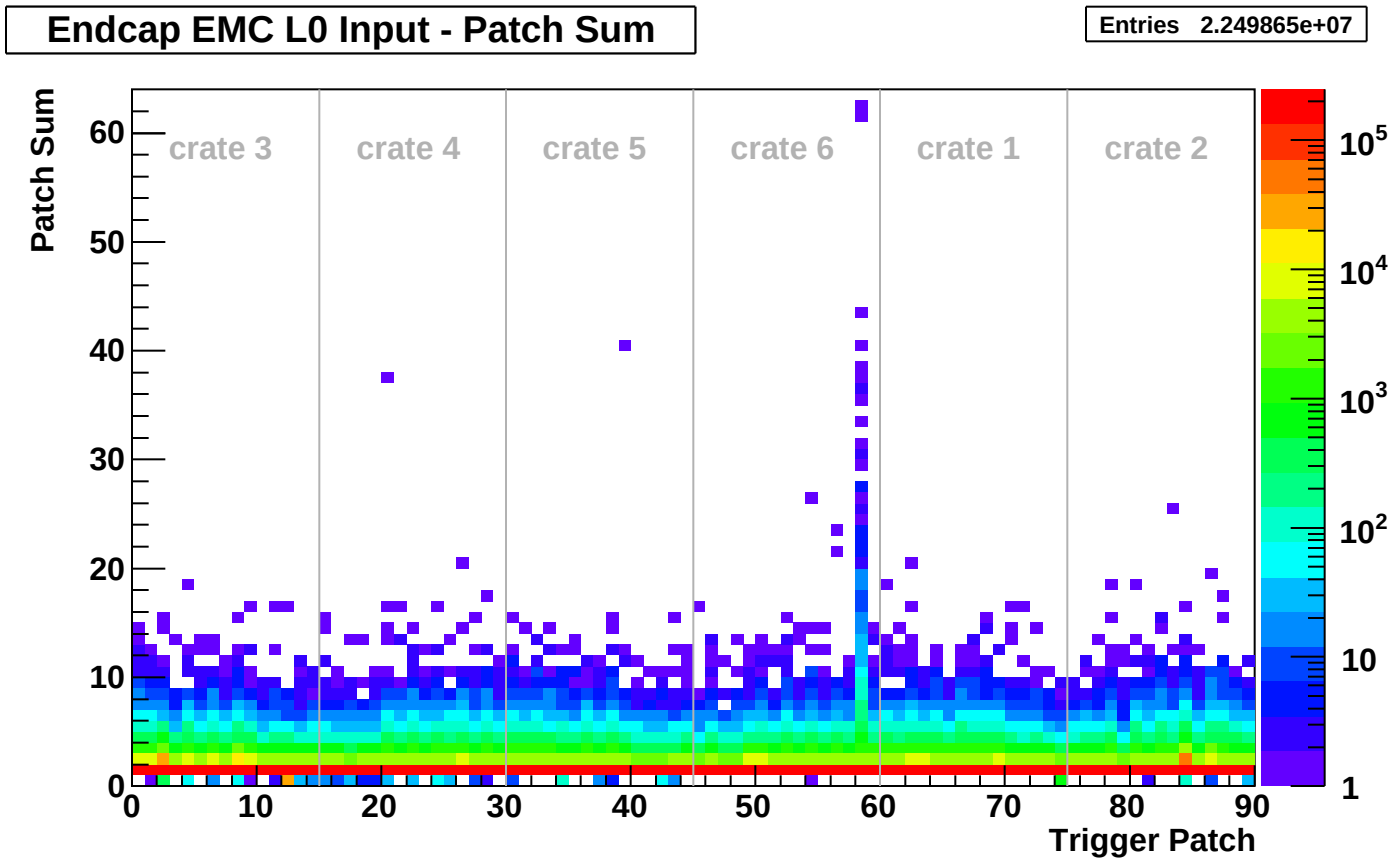

TCU bits
Entries 306718
TCU bits - Simulated
1
0
-1
-2
321 140 115014 37 191206
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

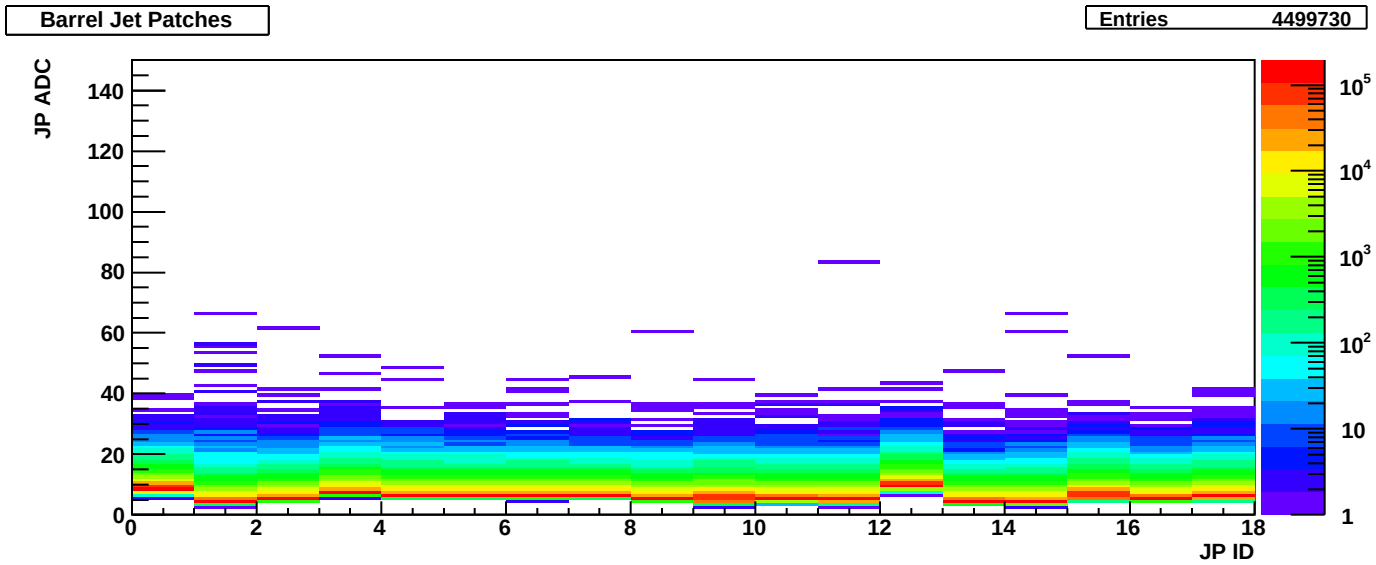

BunchId7Bit (BHT3)
Entries 25
10
1
10-1
0 20 40 60 80 100 120

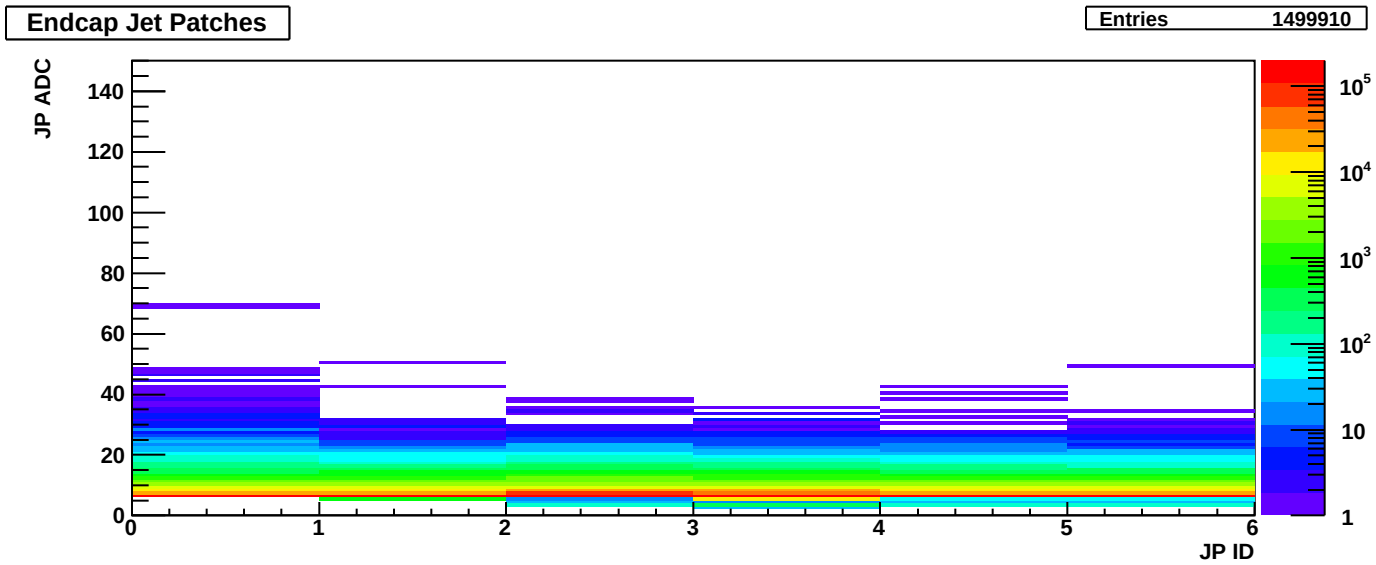

Barrel EMC L0 Input - High Tower
Entries 7.49955e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

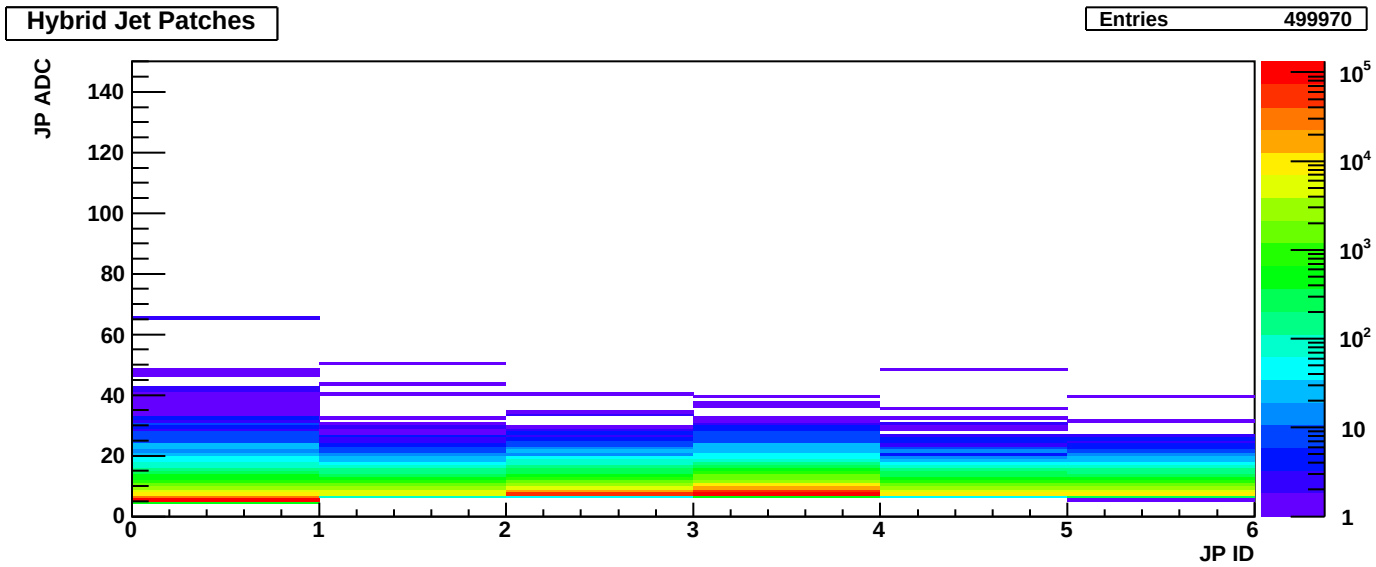

Barrel EMC L0 Input - Patch Sum
Entries 7.49955e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

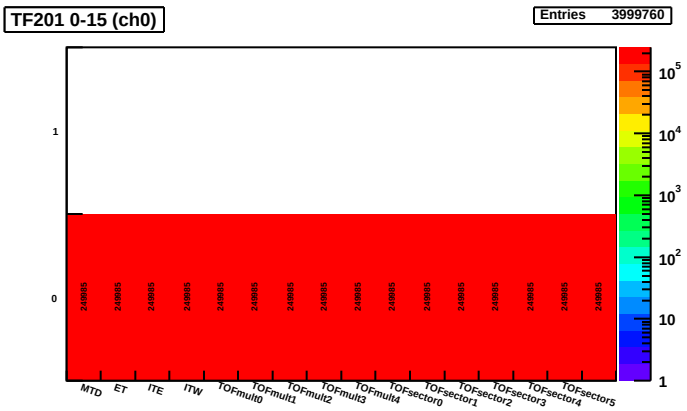

Endcap EMC L0 Input - High Tower
Entries 2.249865e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

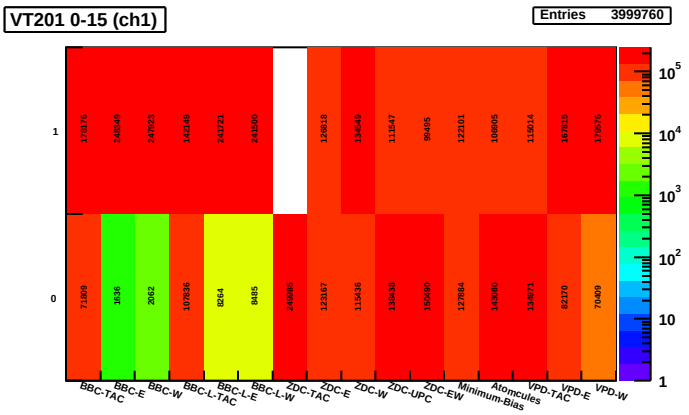

Endcap EMC L0 Input - Patch Sum
Entries 2.249865e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

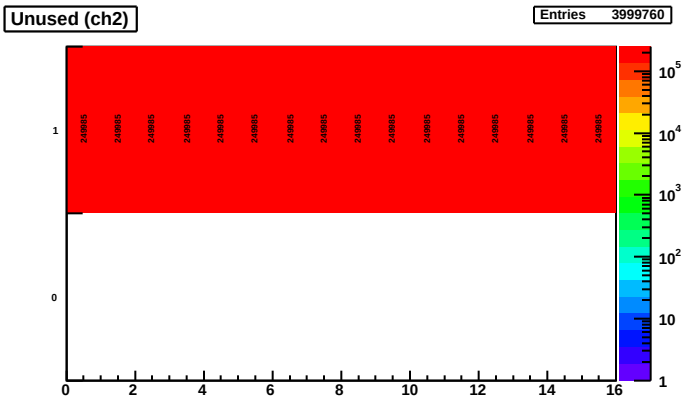

Barrel Jet Patches
Entries 4499730
JP ADC
JP ID

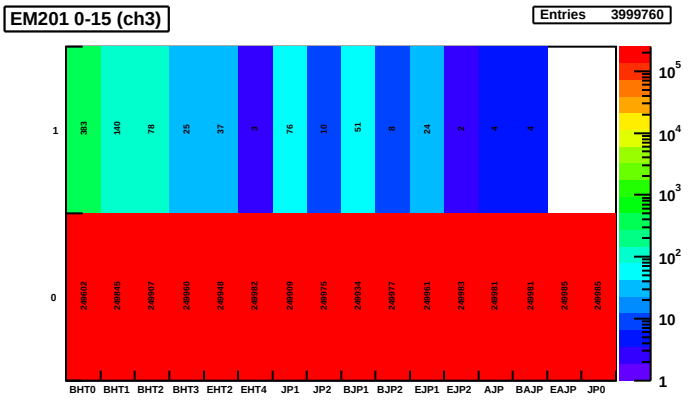

Endcap Jet Patches
Entries 1499910
JP ADC
JP ID

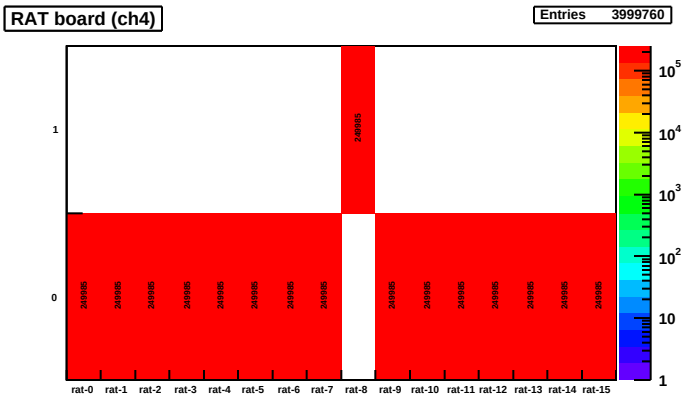

Hybrid Jet Patches
Entries 499970
JP ADC
JP ID

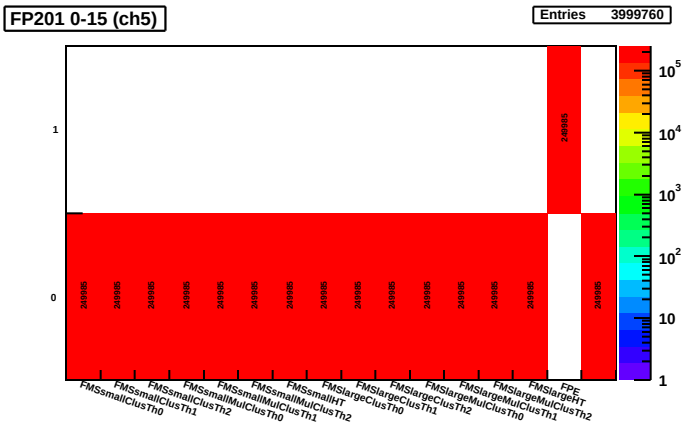

TF201 0-15 (ch0)
Entries 3999760
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

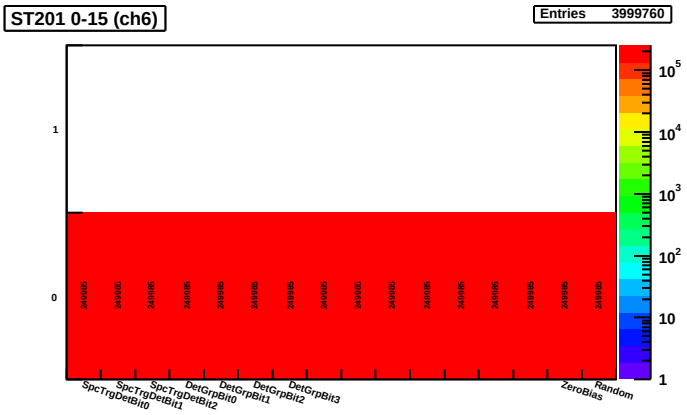

VT201 0-15 (ch1)
Entries 3999760
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

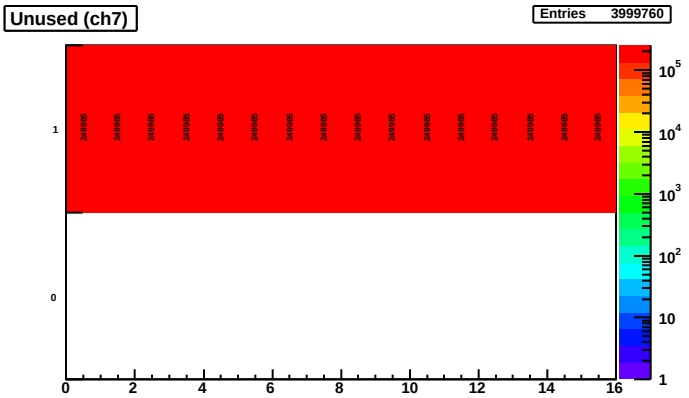

Unused (ch2)
Entries 3999760

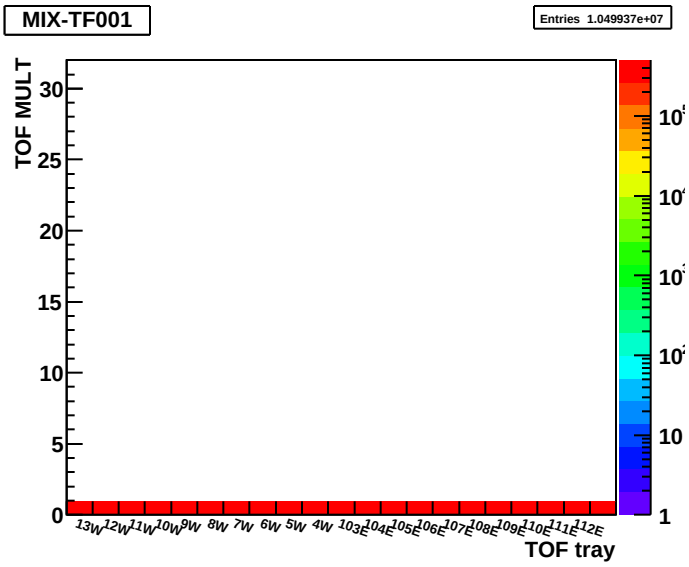

EM201 0-15 (ch3)
Entries 3999760
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

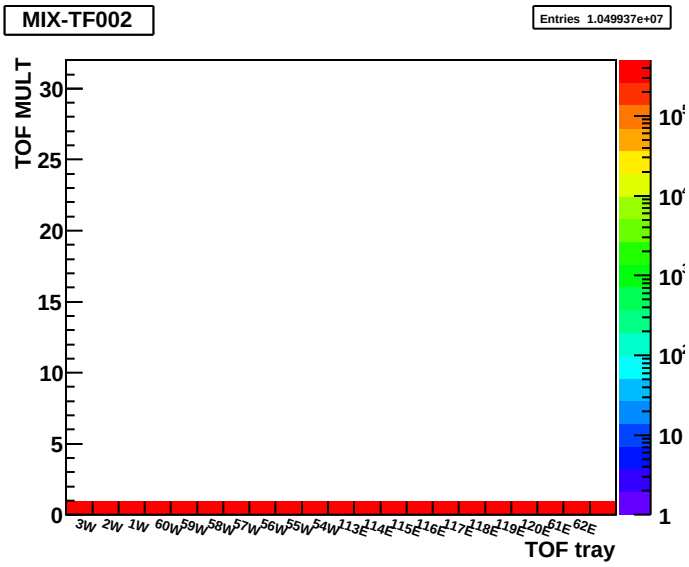

RAT board (ch4)
Entries 3999760
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

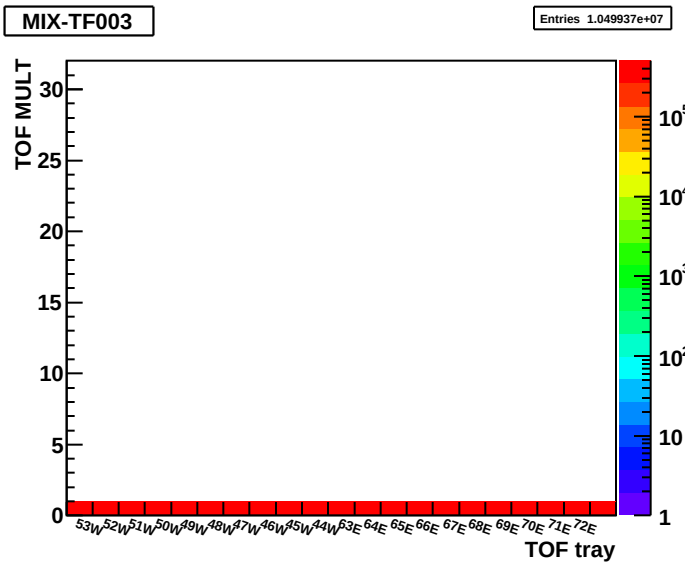

FP201 0-15 (ch5)
Entries 3999760
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

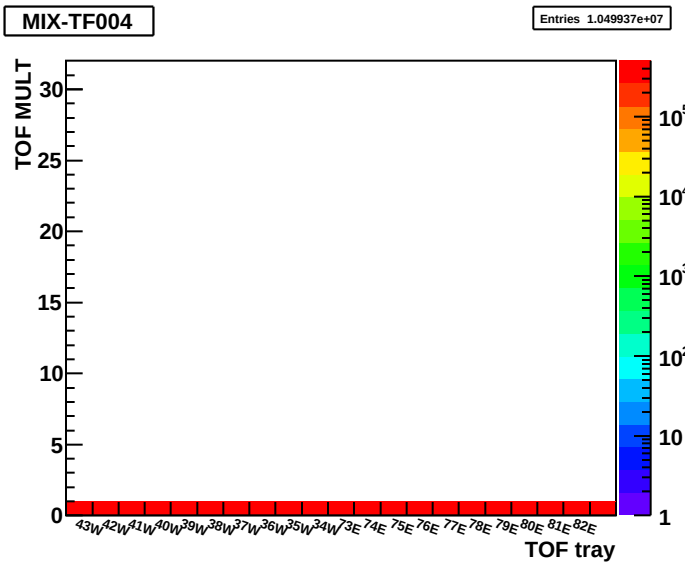

ST201 0-15 (ch6)
Entries 3999760
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

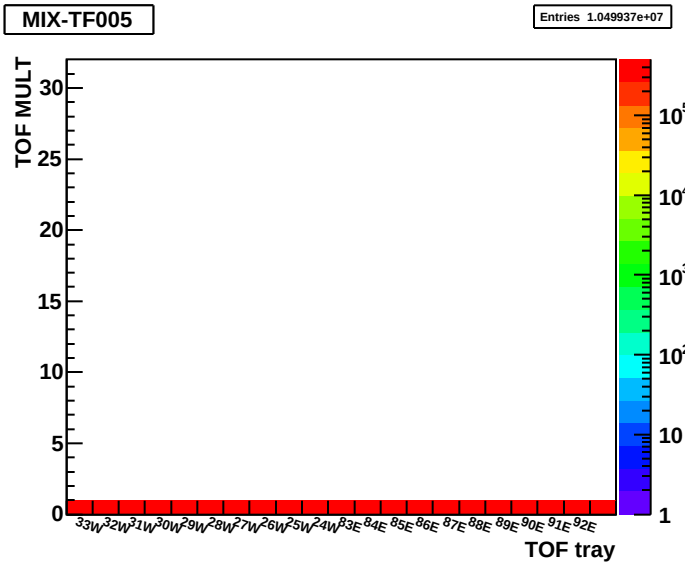

Unused (ch7)
Entries 3999760

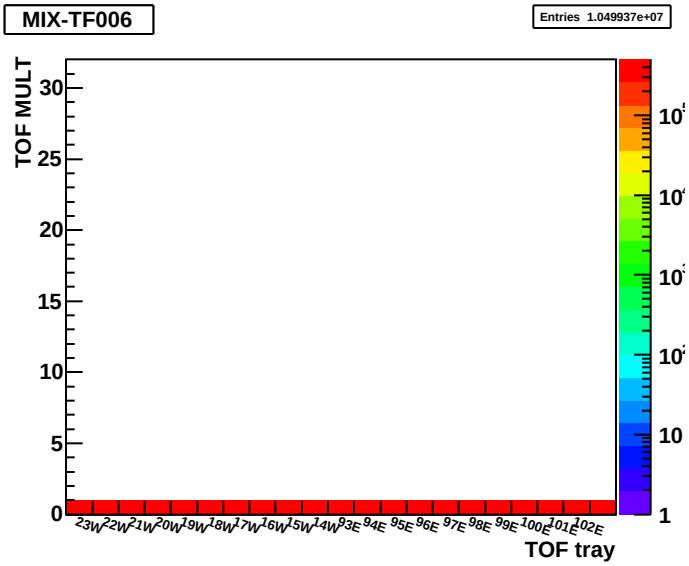

MIX-TF001
Entries 1.049937e+07
TOF MULT
TOF tray

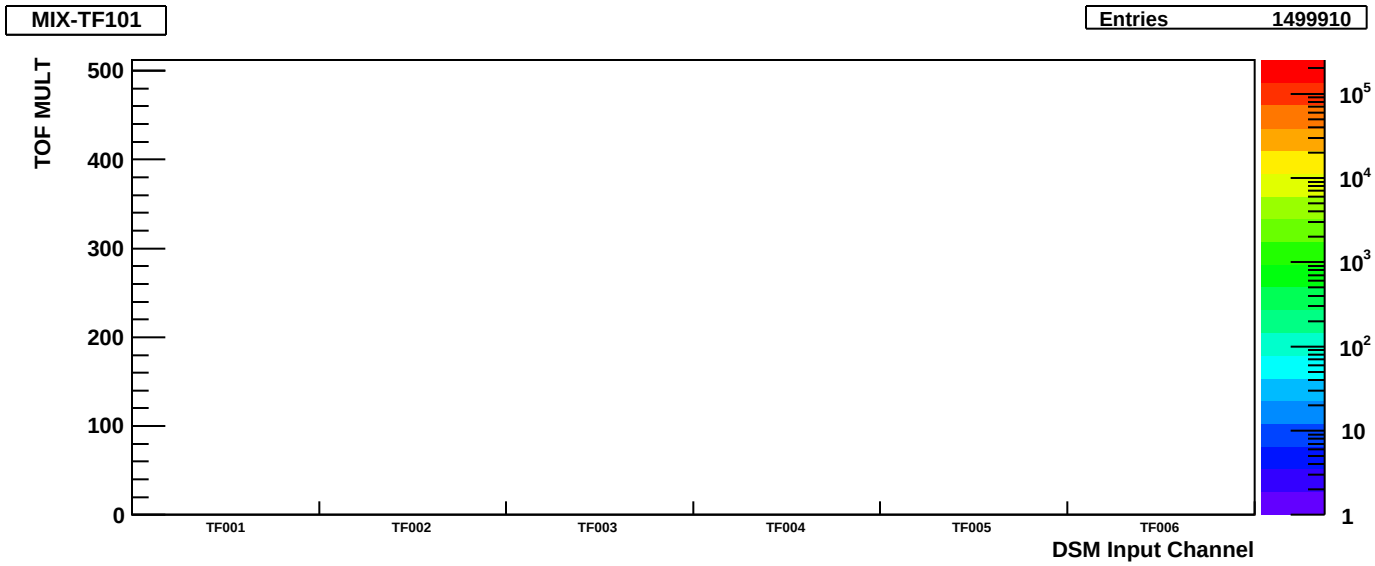

MIX-TF002
Entries 1.049937e+07
TOF MULT
TOF tray

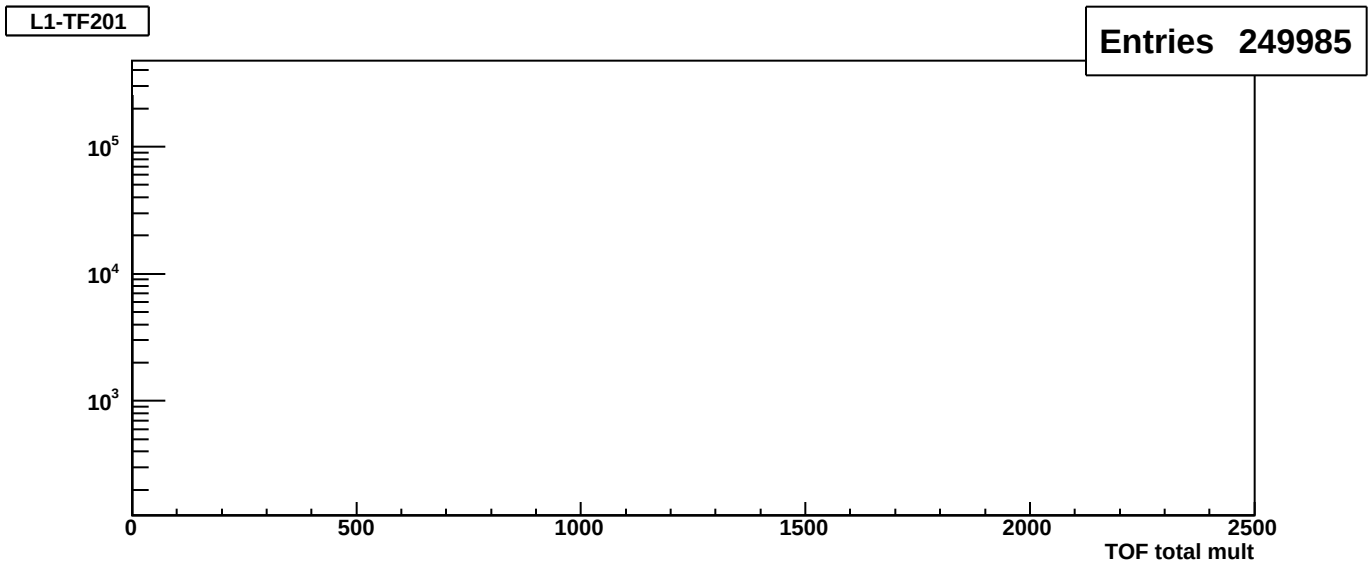

MIX-TF003
Entries 1.049937e+07
TOF MULT
TOF tray

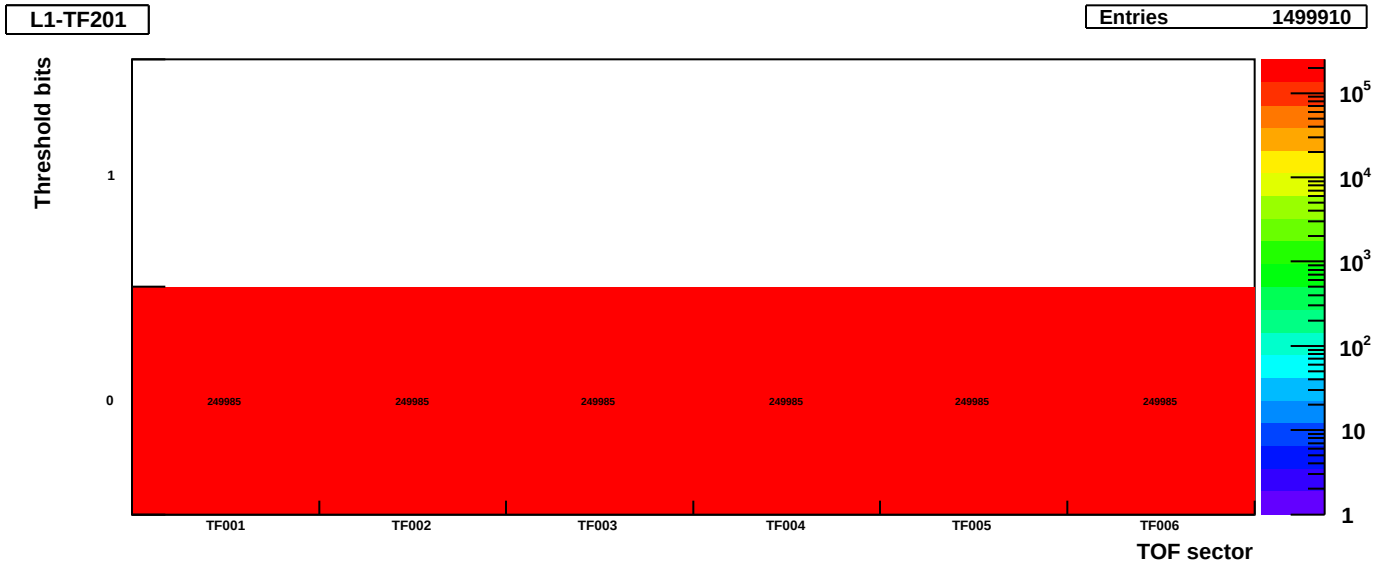

MIX-TF004
Entries 1.049937e+07
TOF MULT
TOF tray

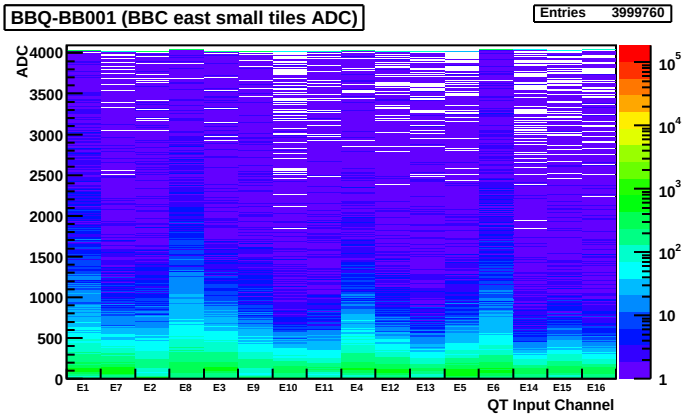

MIX-TF005
Entries 1.049937e+07
TOF MULT
TOF tray

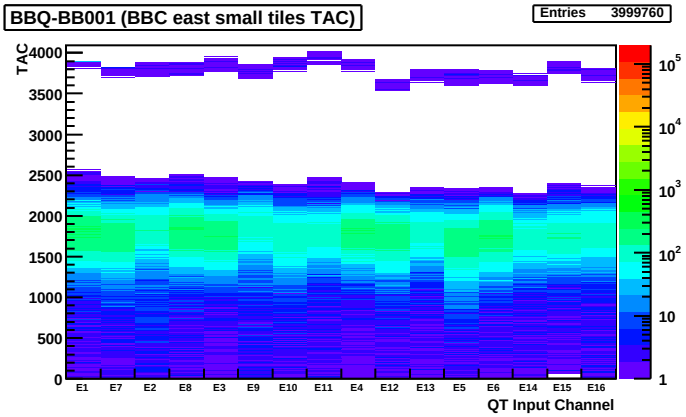

MIX-TF006
Entries 1.049937e+07
TOF MULT
TOF tray

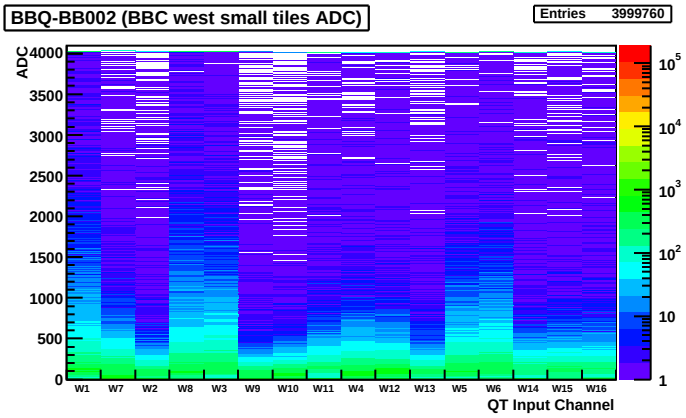

MIX-TF101
Entries 1499910
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

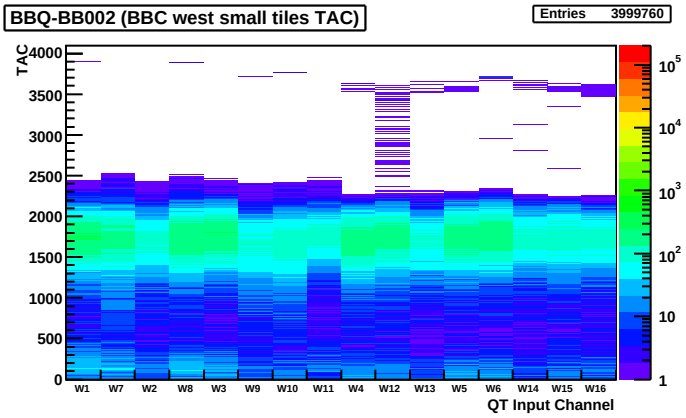

L1-TF201
Entries 249985
10^5
10^4
10^3
0
500
1000
1500
2000
2500
TOF total mult

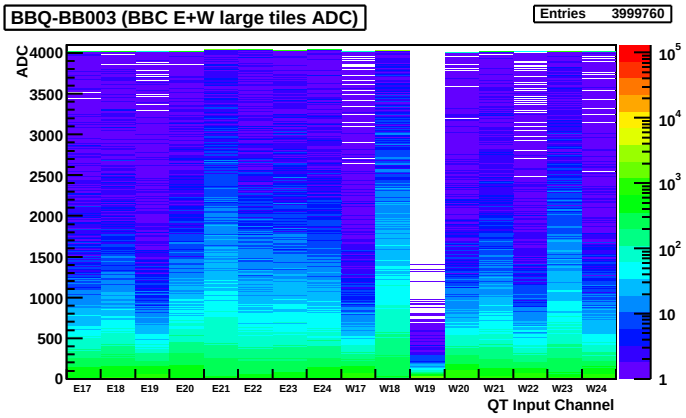

L1-TF201
Entries 1499910
Threshold bits
1
0
249985
249985
249985
249985
249985
249985
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4
10^3
10^2
10
1

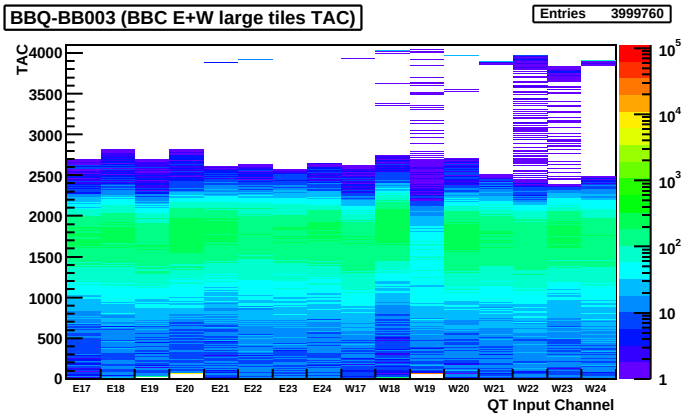

BBQ-BB001 (BBC east small tiles ADC)
Entries 3999760
ADC
QT Input Channel

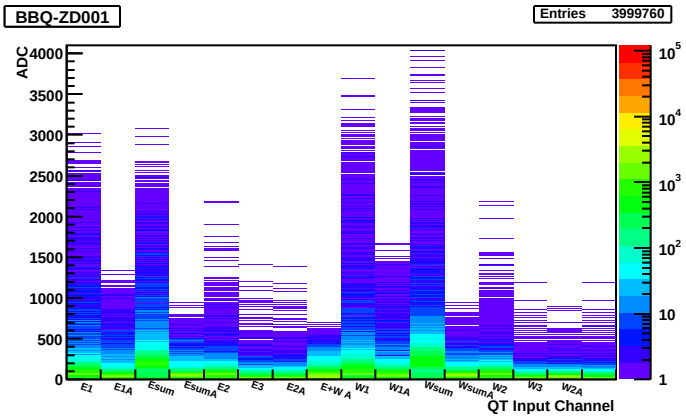

BBQ-BB001 (BBC east small tiles TAC)
Entries 3999760
TAC
QT Input Channel

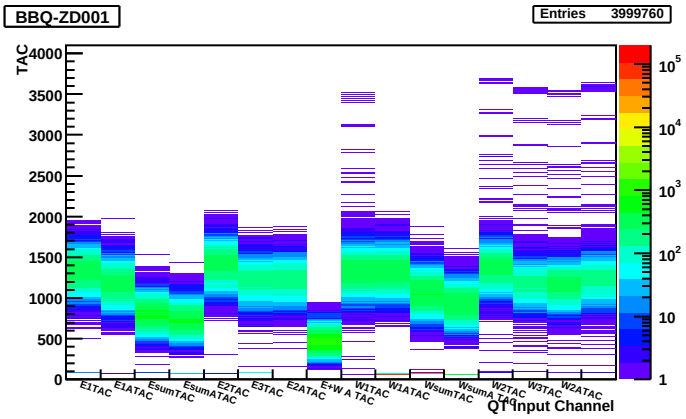

BBQ-BB002 (BBC west small tiles ADC)
Entries 3999760
ADC
QT Input Channel

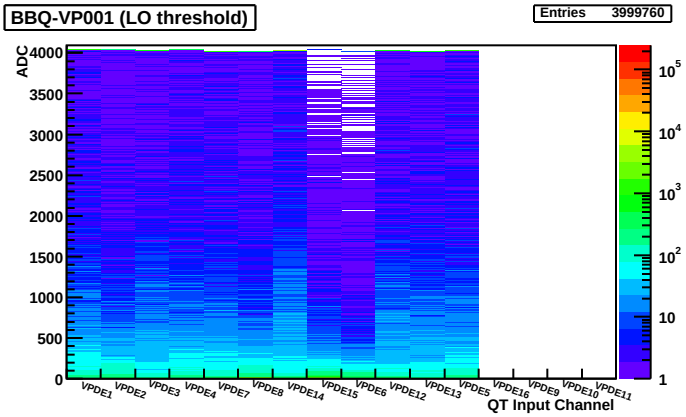

BBQ-BB002 (BBC west small tiles TAC)
Entries 3999760
TAC
QT Input Channel

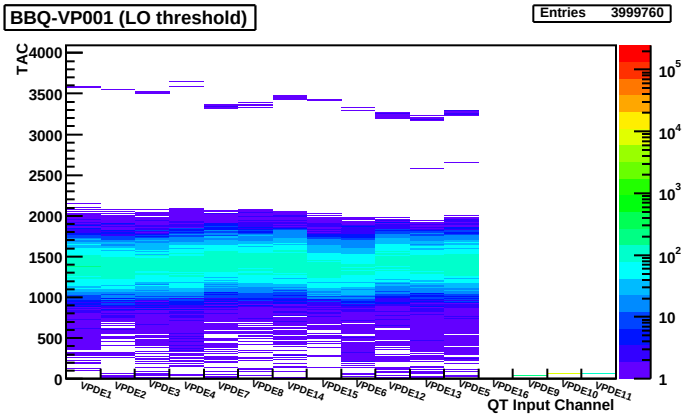

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3999760
ADC
QT Input Channel

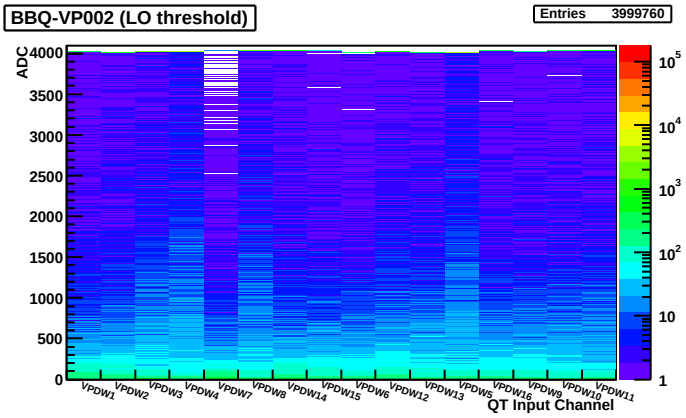

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3999760
TAC
QT Input Channel

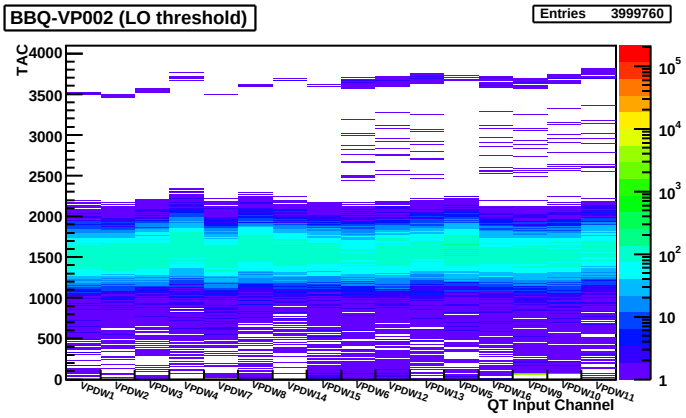

BBQ-ZD001
Entries 3999760
ADC
QT Input Channel

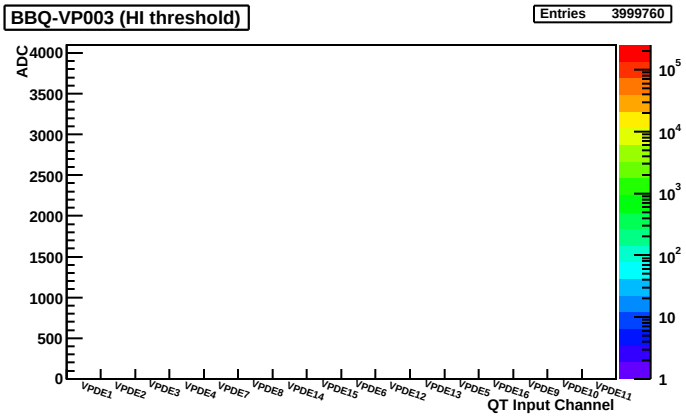

BBQ-ZD001
Entries 3999760
TAC
QT Input Channel

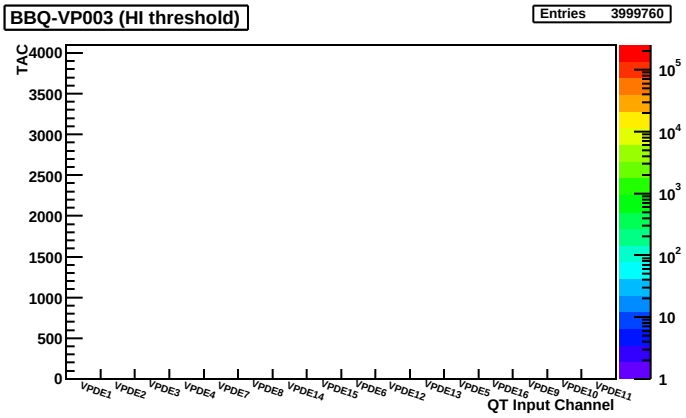

BBQ-VP001 (LO threshold)
Entries 3999760
ADC
QT Input Channel

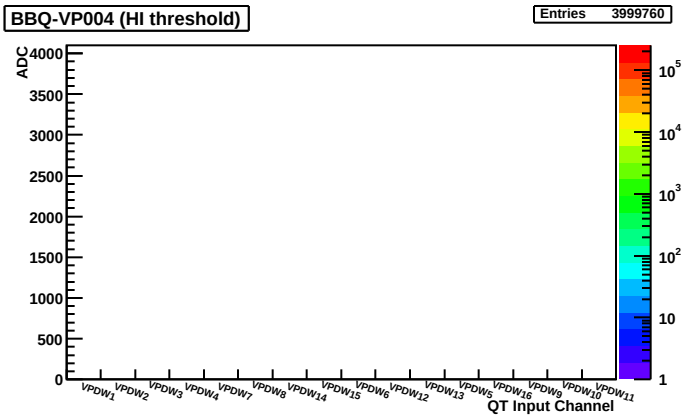

BBQ-VP001 (LO threshold)
Entries 3999760
TAC
QT Input Channel

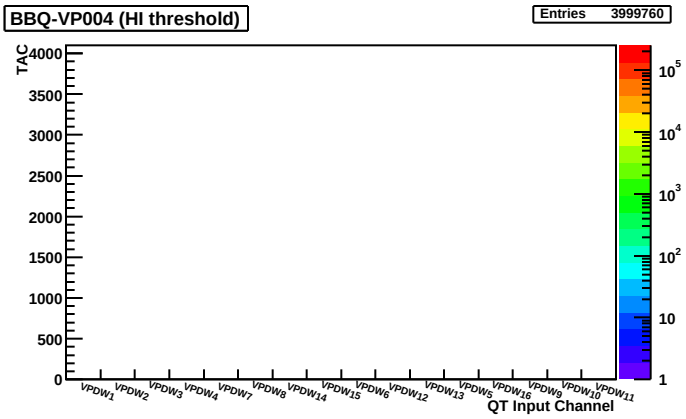

BBQ-VP002 (LO threshold)
Entries 3999760
ADC
QT Input Channel

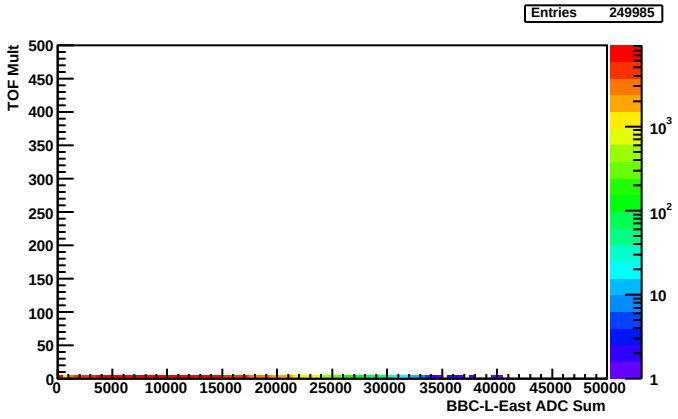

BBQ-VP002 (LO threshold)
Entries 3999760
TAC
QT Input Channel

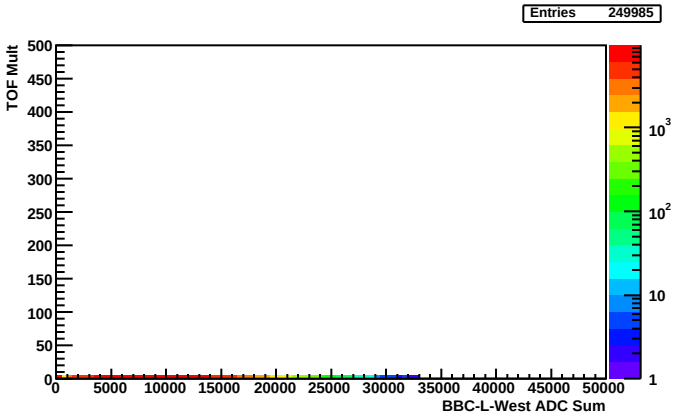

BBQ-VP003 (HI threshold)
Entries 3999760
ADC
QT Input Channel

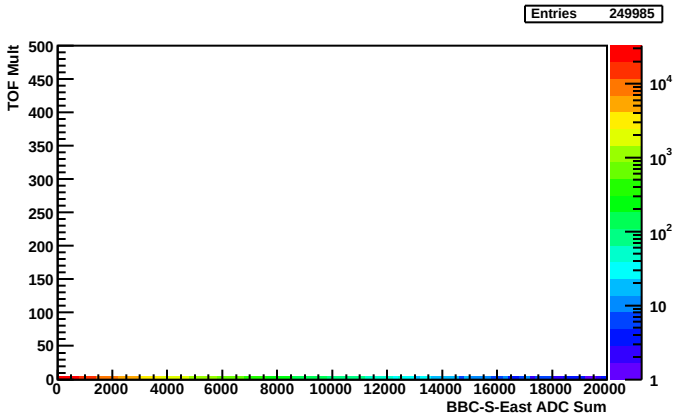

BBQ-VP003 (HI threshold)
Entries 3999760
TAC
QT Input Channel

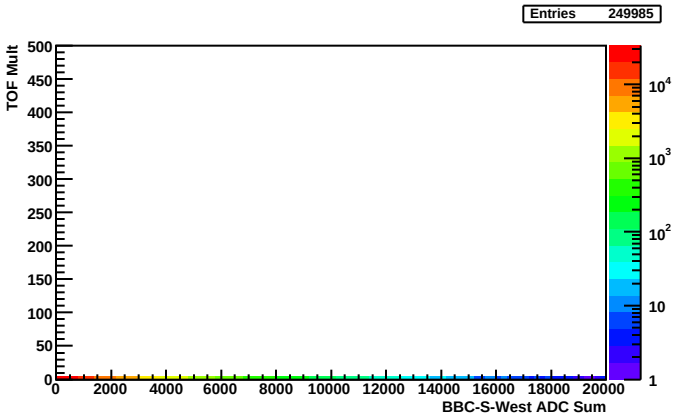

BBQ-VP004 (HI threshold)
Entries 3999760
ADC
QT Input Channel

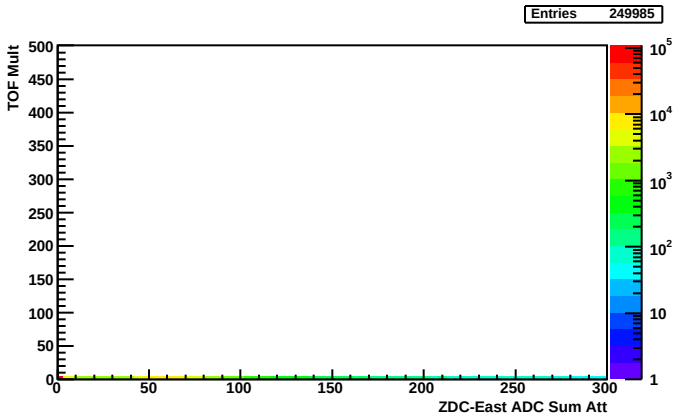

BBQ-VP004 (HI threshold)
Entries 3999760
TAC
QT Input Channel

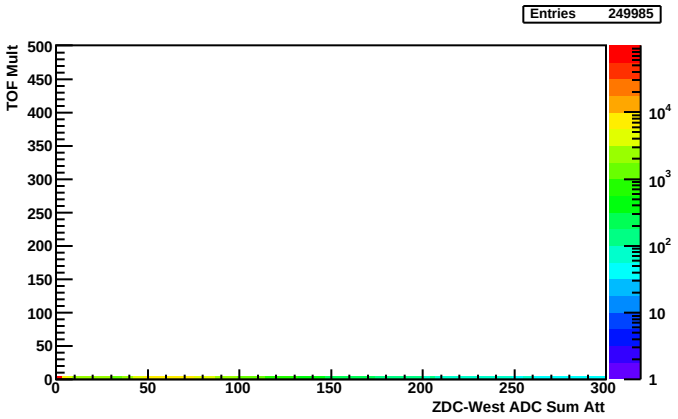

Entries 249985
TOF Mult
BBC-L-East ADC Sum

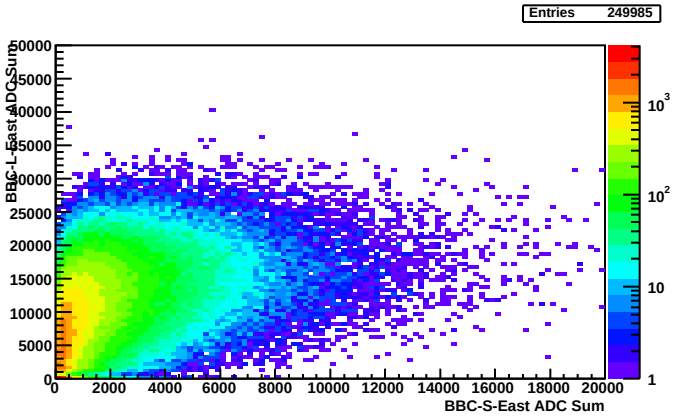

Entries 249985
TOF Mult
BBC-L-West ADC Sum

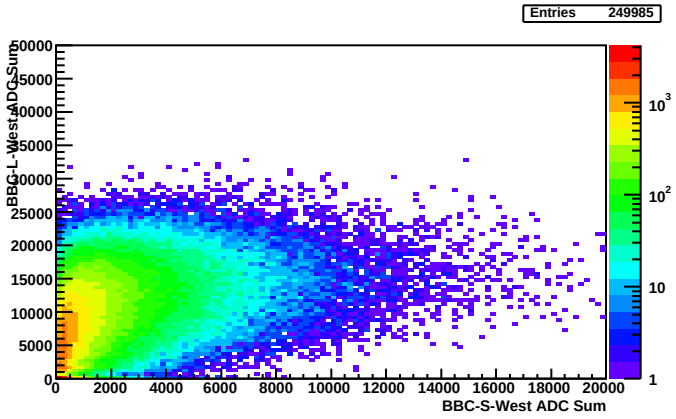

Entries 249985
TOF Mult
BBC-S-East ADC Sum

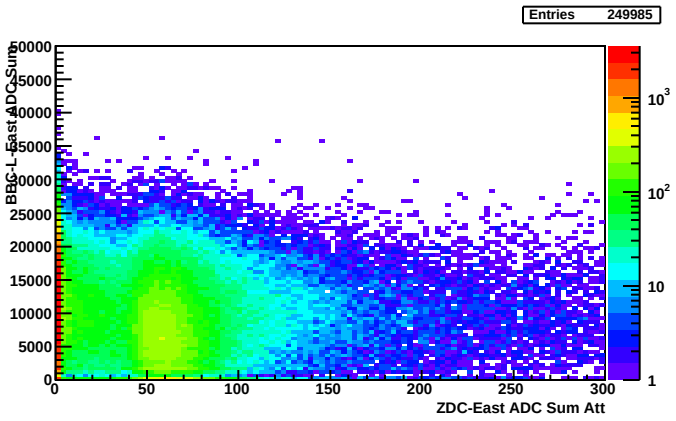

Entries 249985
TOF Mult
BBC-S-West ADC Sum

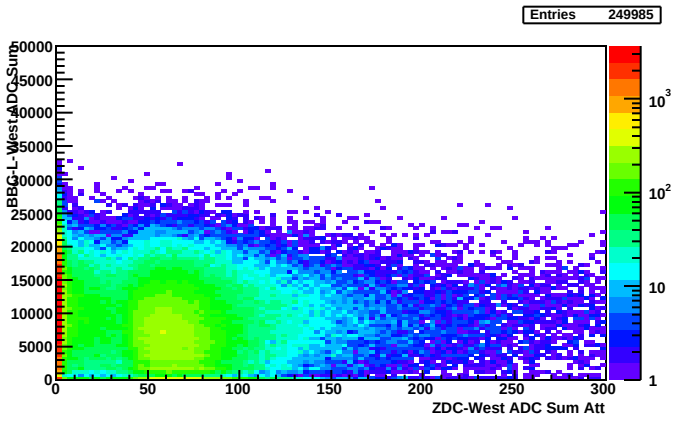

Entries 249985
TOF Mult
ZDC-East ADC Sum Att

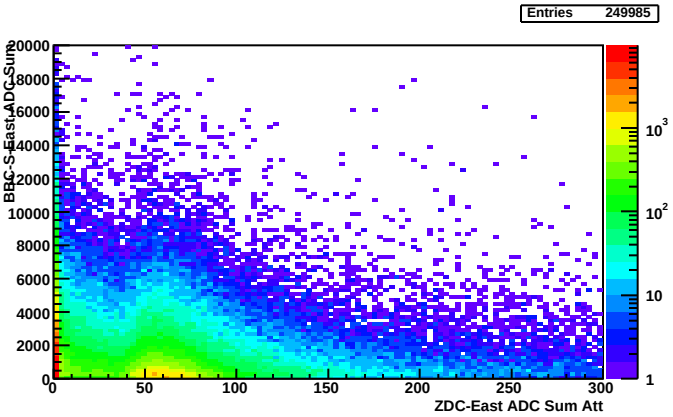

Entries 249985
TOF Mult
ZDC-West ADC Sum Att

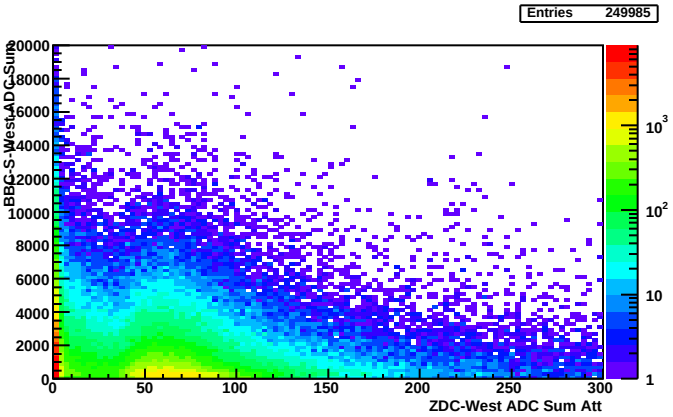

Entries 249985
BBC-L-East ADC Sum
BBC-S-East ADC Sum

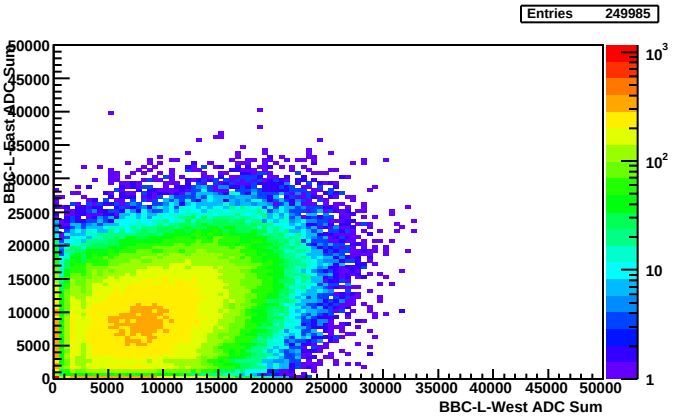

Entries 249985
BBC-L-West ADC Sum
BBC-S-West ADC Sum

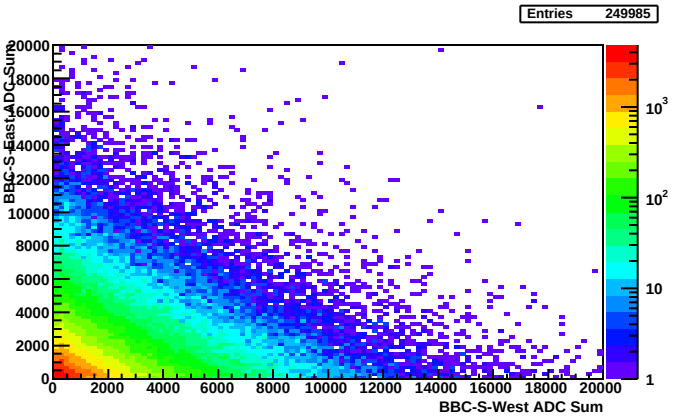

Entries 249985
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

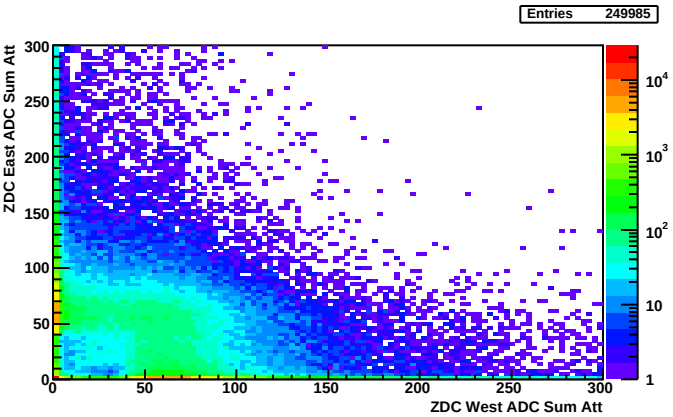

Entries 249985
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

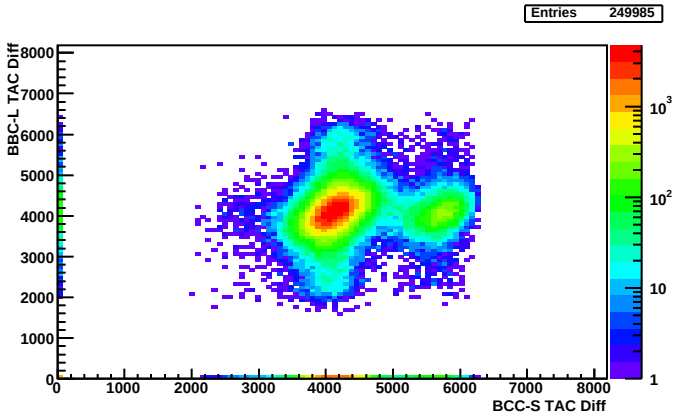

Entries 249985
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

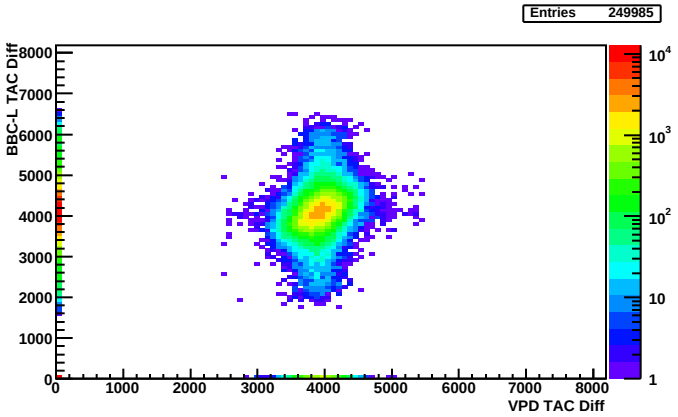

Entries 249985
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

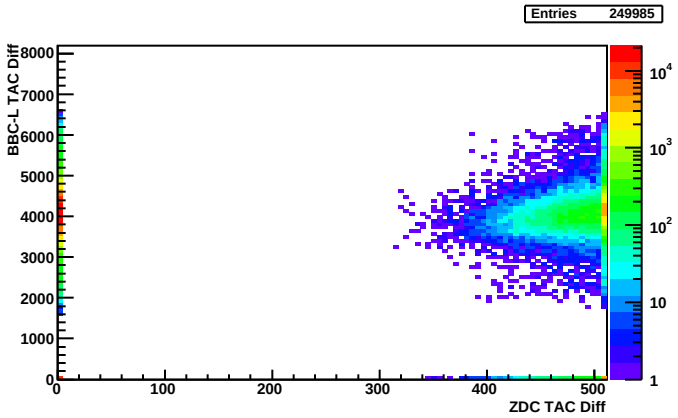

Entries 249985
BBC-L-East ADC Sum
BBC-L-West ADC Sum

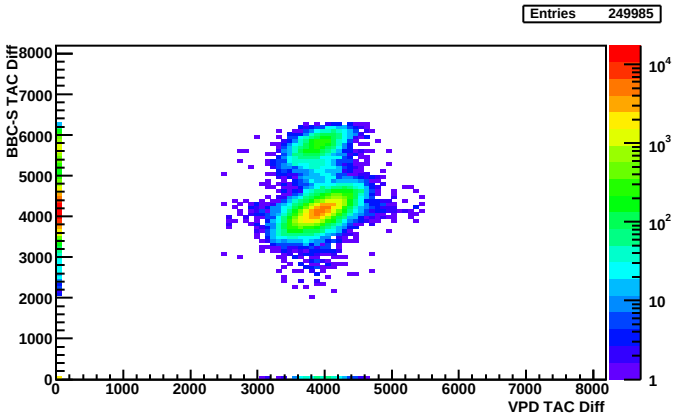

Entries 249985
BBC-S-East ADC Sum
BBC-S-West ADC Sum

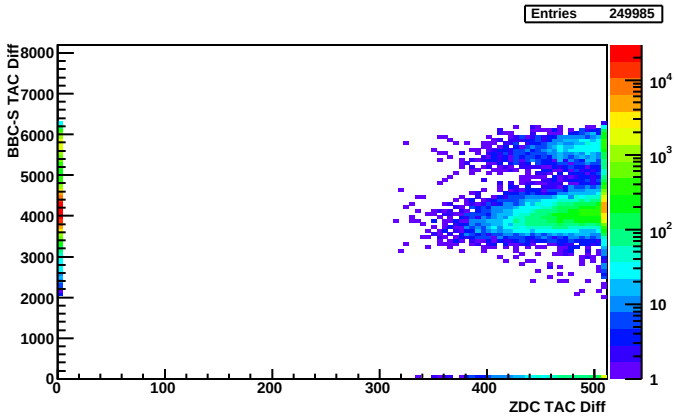

Entries 249985
ZDC East ADC Sum Att
ZDC West ADC Sum Att

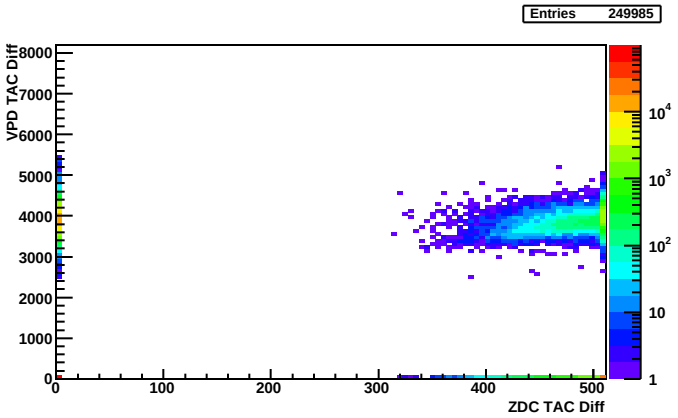

Entries 249985
BBC-L TAC Diff
BCC-S TAC Diff

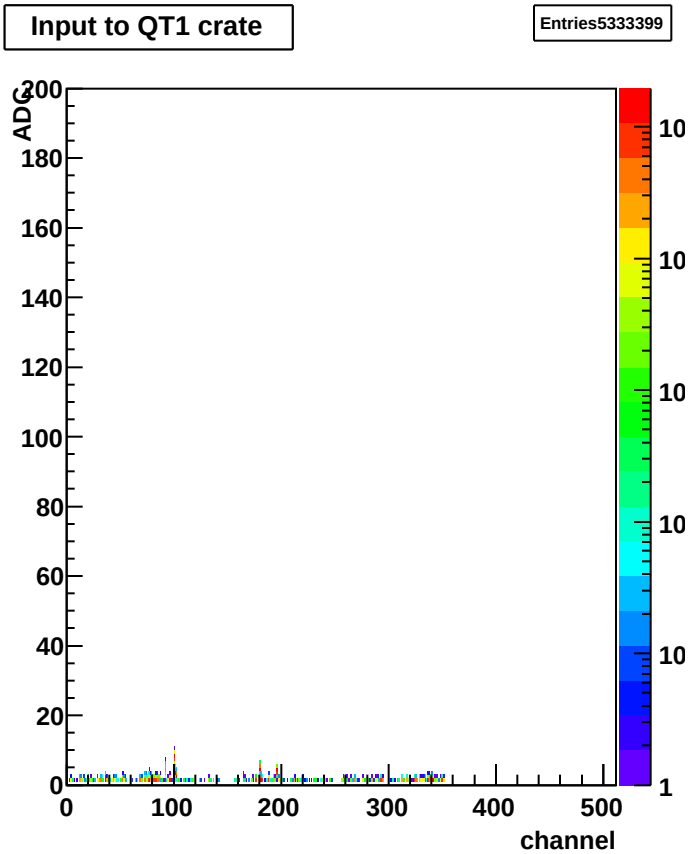

Entries 249985
BBC-L TAC Diff
VPD TAC Diff

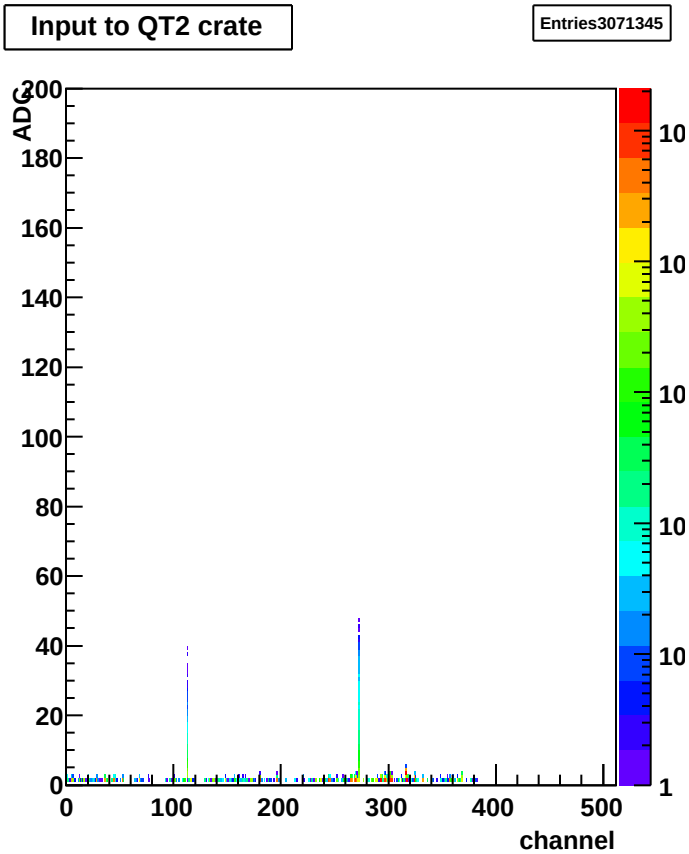

Entries 249985
BBC-L TAC Diff
ZDC TAC Diff

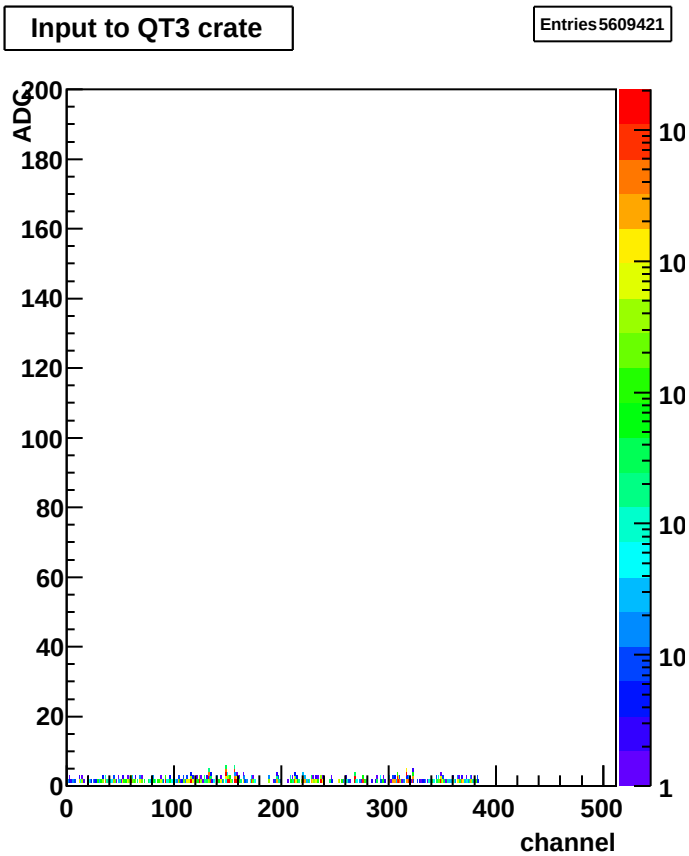

Entries 249985
BBC-S TAC Diff
VPD TAC Diff

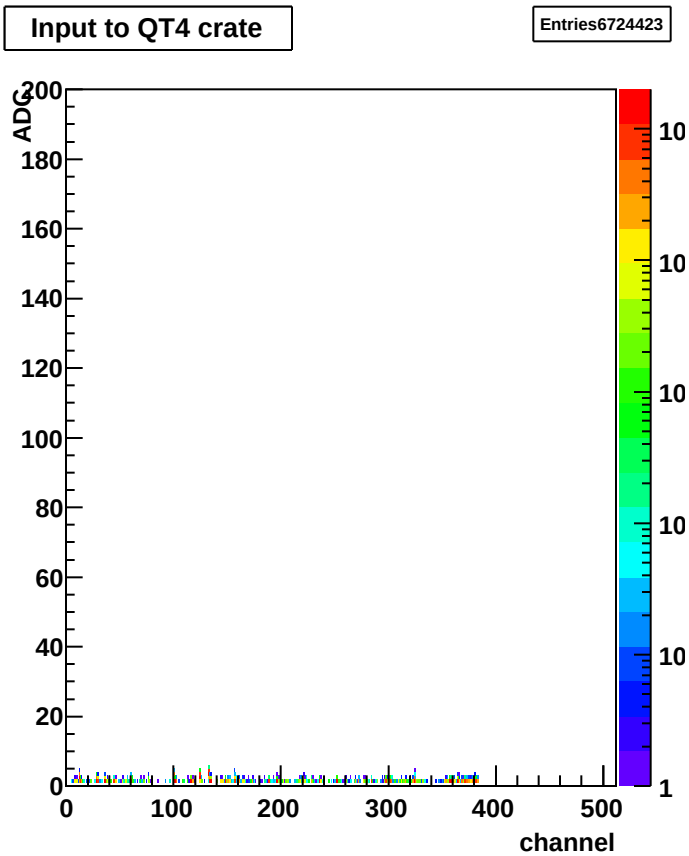

Entries 249985
BBC-S TAC Diff
ZDC TAC Diff

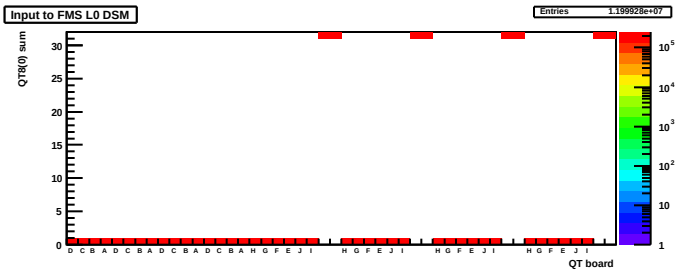

Entries 249985
VPD TAC Diff
ZDC TAC Diff

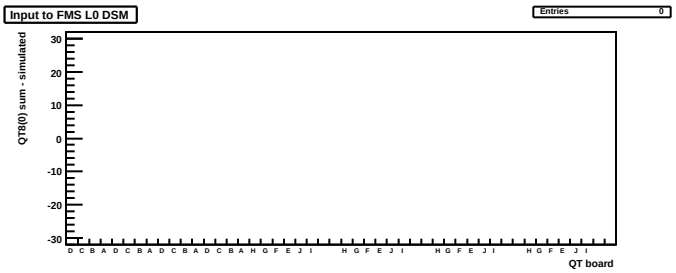

Input to QT1 crate
Entries5333399
ADC
channel

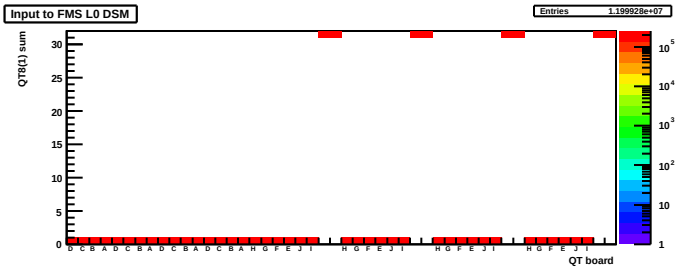

Input to QT2 crate
Entries3071345
ADC
channel

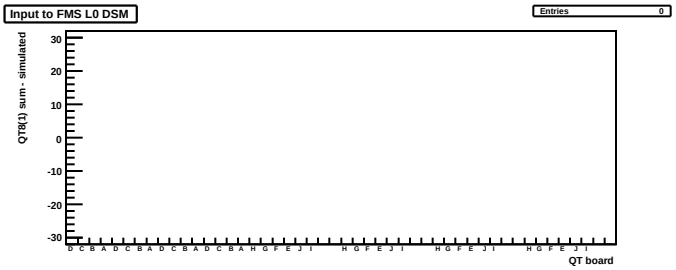

Input to QT3 crate
Entries5609421
ADC
channel

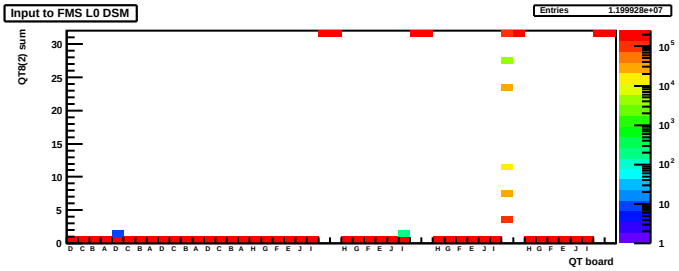

Input to QT4 crate
Entries6724423
ADC
channel

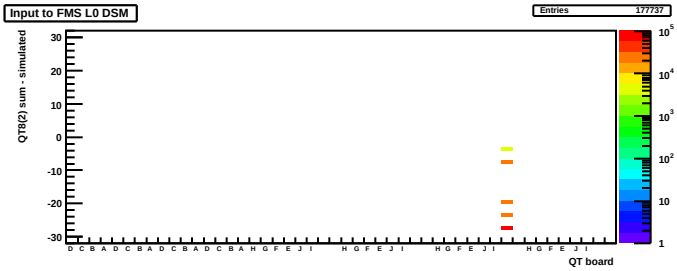

Input to FMS L0 DSM
Entries 1.199928e+07
QT8(0) sum
QT board

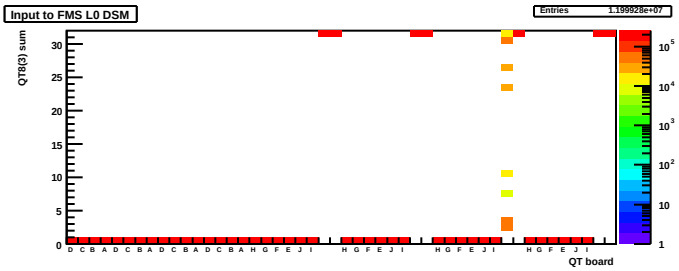

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

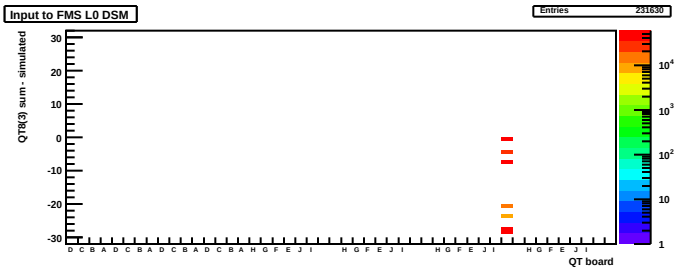

Input to FMS L0 DSM
Entries 1.199928e+07
QT8(1) sum
QT board

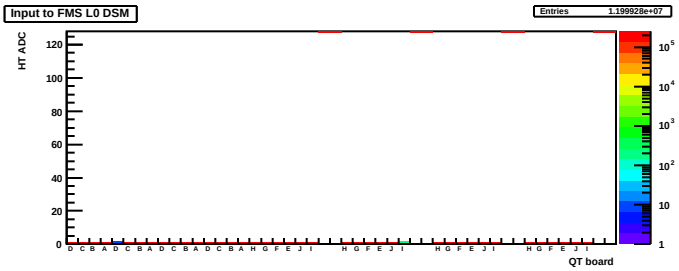

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

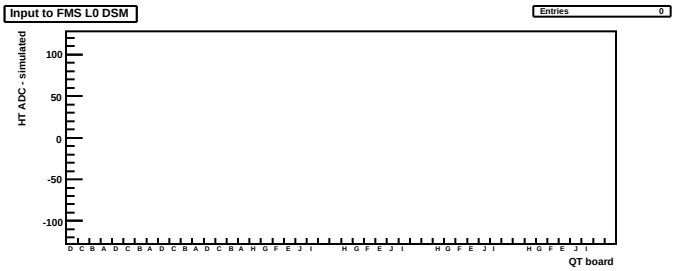

Input to FMS L0 DSM
Entries 1.199928e+07
QT8(2) sum
QT board

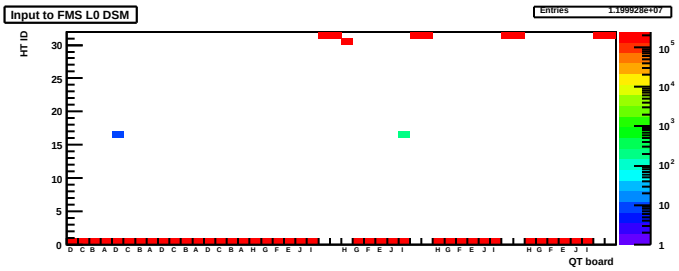

Input to FMS L0 DSM
Entries 177737
QT8(2) sum - simulated
QT board

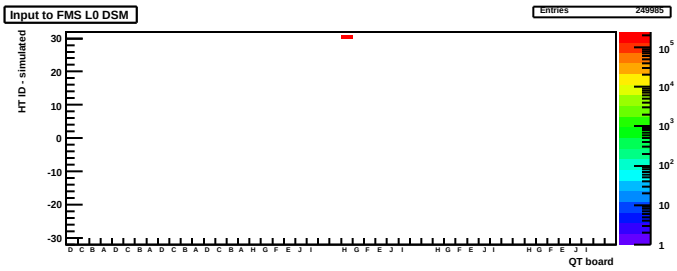

Input to FMS L0 DSM
Entries 1.199928e+07
QT8(3) sum
QT board

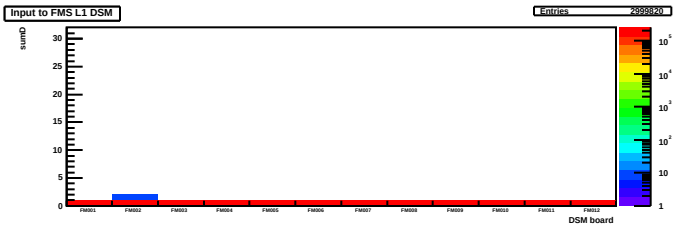

Input to FMS L0 DSM
Entries 231630
QT8(3) sum - simulated
QT board

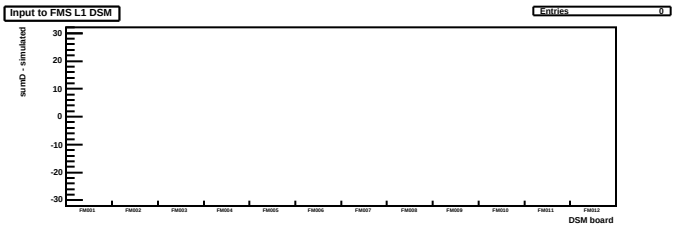

Input to FMS L0 DSM
Entries 1.199928e+07
HT ADC
QT board

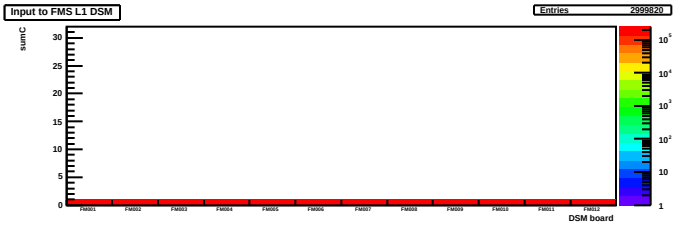

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

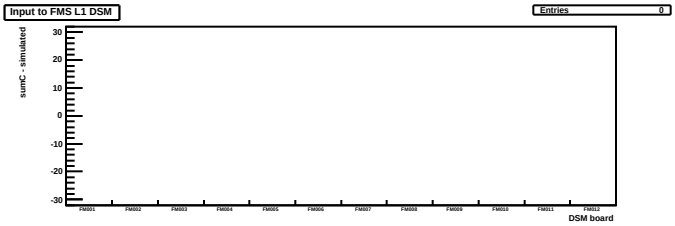

Input to FMS L0 DSM
Entries 1.199928e+07
HT ID
QT board

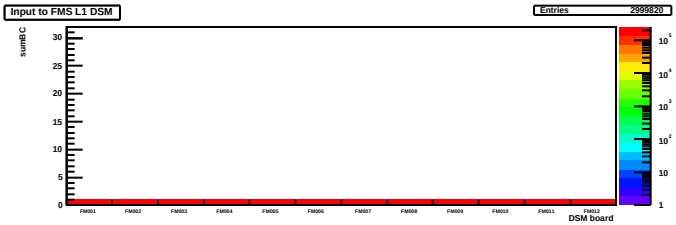

Input to FMS L0 DSM
Entries 249985
HT ID - simulated
QT board

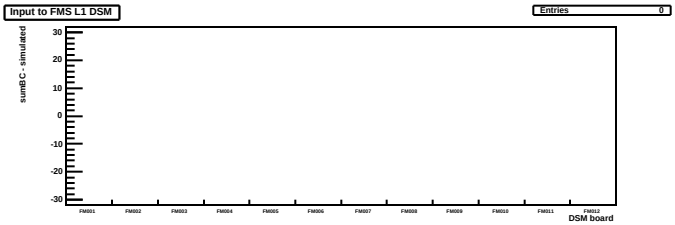

Input to FMS L1 DSM
Entries 2999820
sumD
DSM board

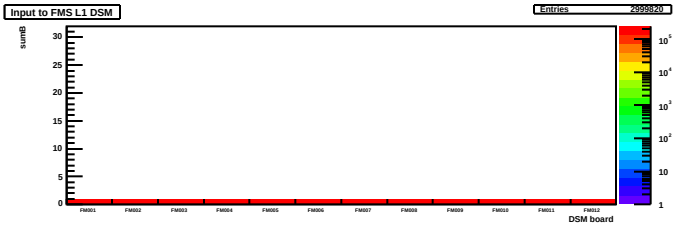

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

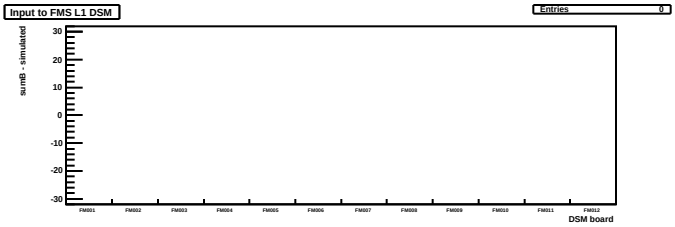

Input to FMS L1 DSM
Entries 2999820
sumC
DSM board

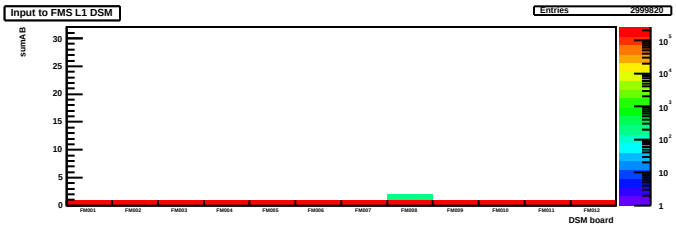

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

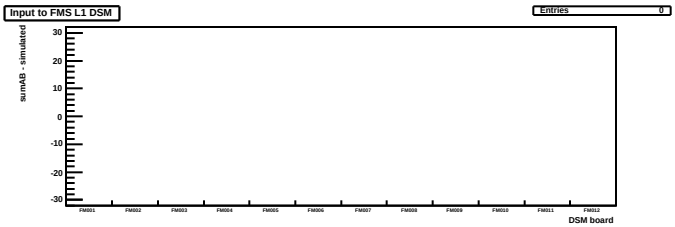

Input to FMS L1 DSM
Entries 2999820
sumBC
DSM board

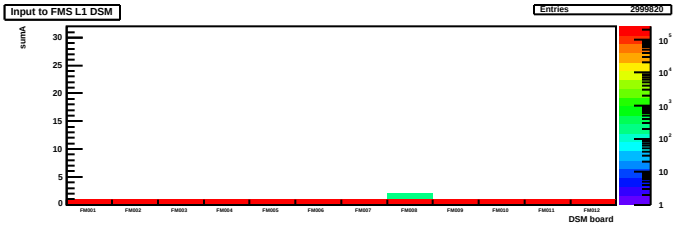

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

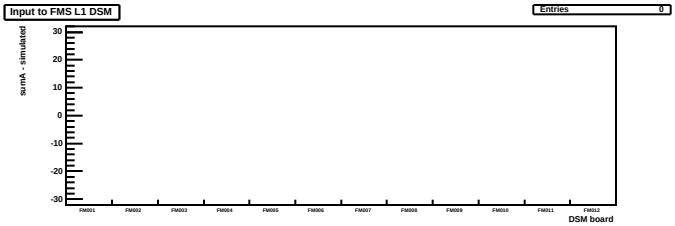

Input to FMS L1 DSM
Entries 2999820
sumB
DSM board

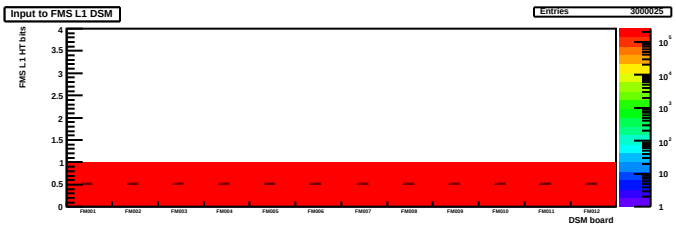

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

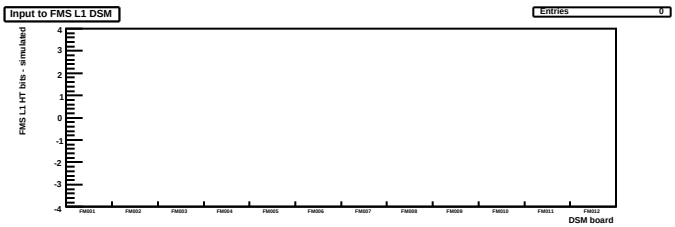

Input to FMS L1 DSM
Entries 2999820
sumAB
DSM board

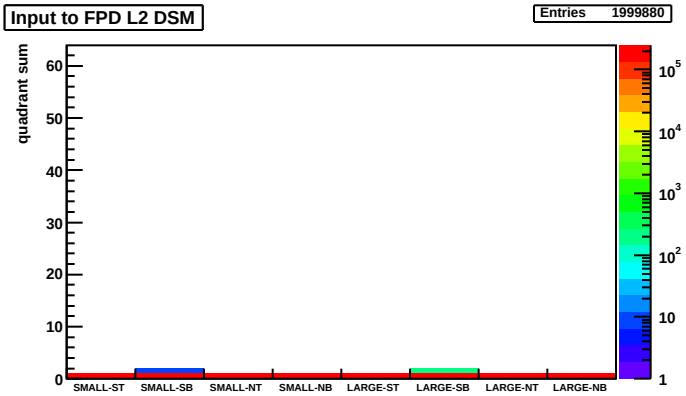

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

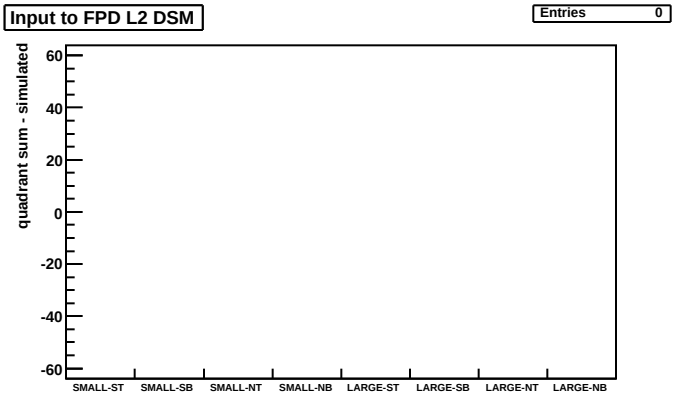

Input to FMS L1 DSM
Entries 2999820
sumA
DSM board

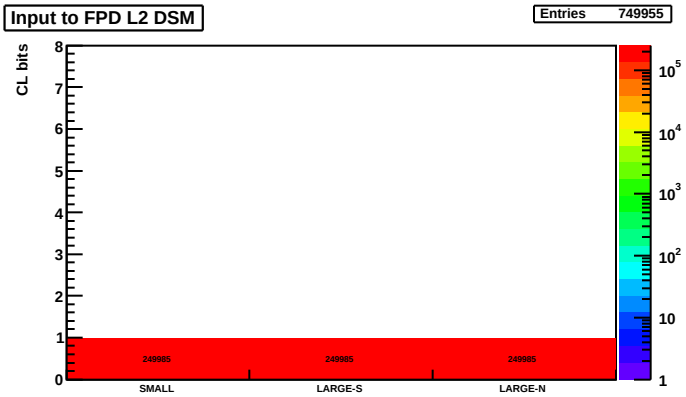

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

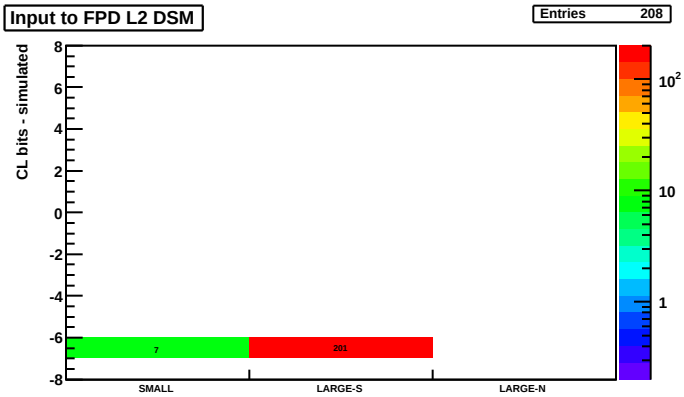

Input to FMS L1 DSM
Entries 3000025
FMS L1 HT bits
DSM board

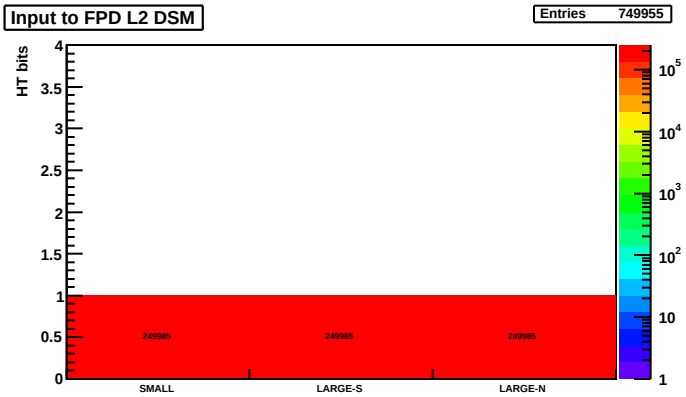

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

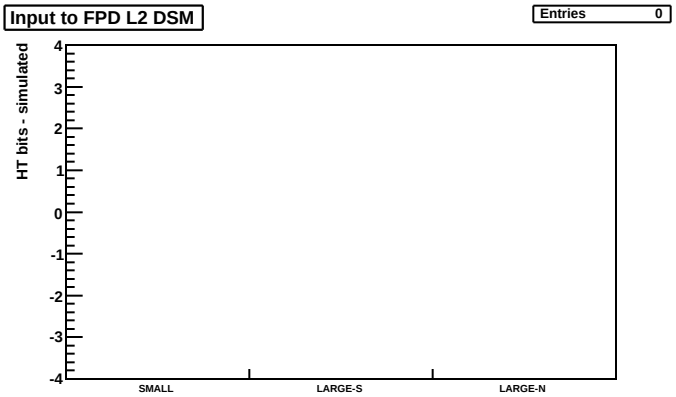

Input to FPD L2 DSM
Entries 1999880
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

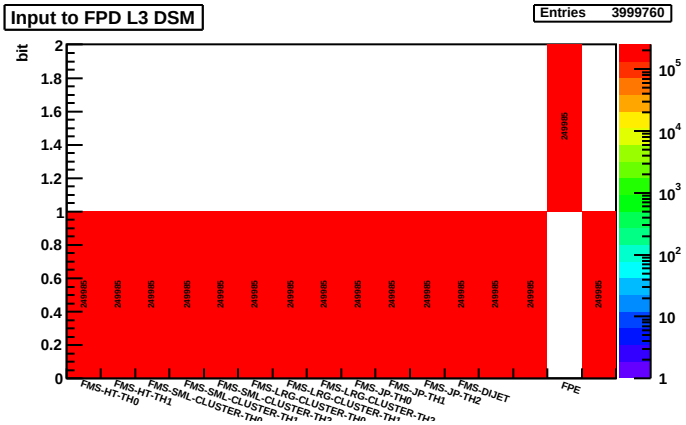

Input to FPD L2 DSM
Entries 0
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

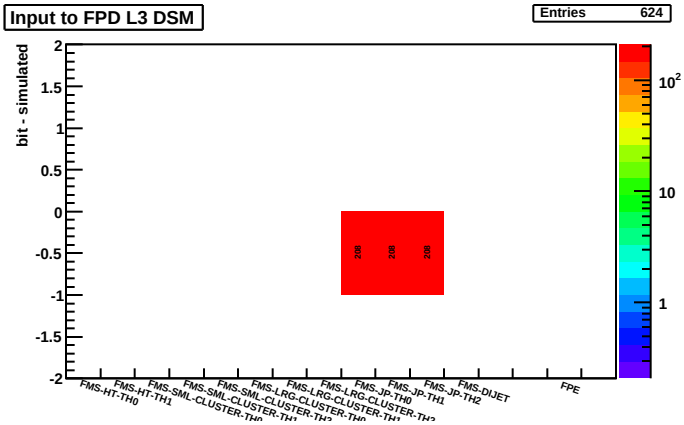

Input to FPD L2 DSM
Entries 749955
CL bits
249985
249985
249985
SMALL
LARGE-S
LARGE-N

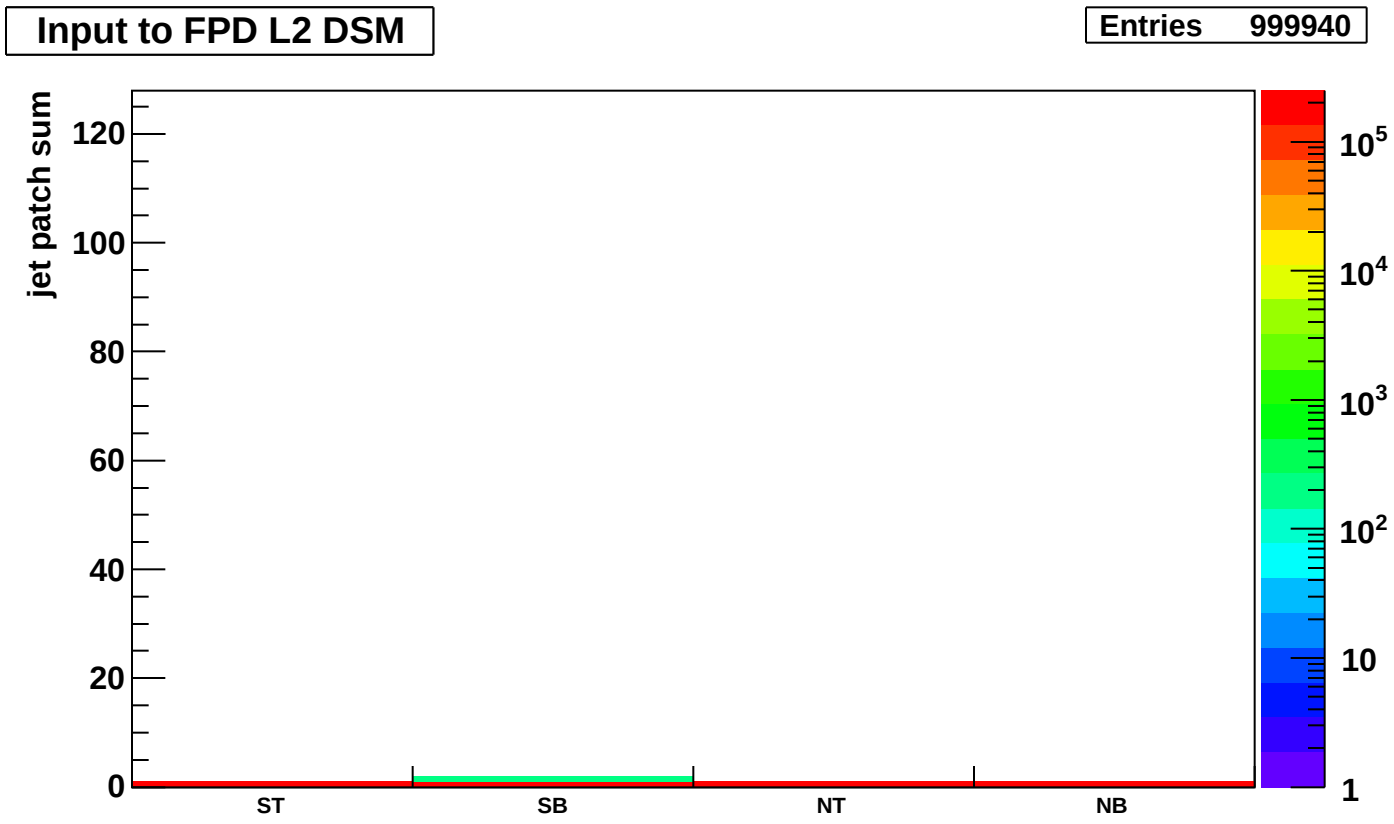

Input to FPD L2 DSM
Entries 208
CL bits - simulated
7
201
SMALL
LARGE-S
LARGE-N

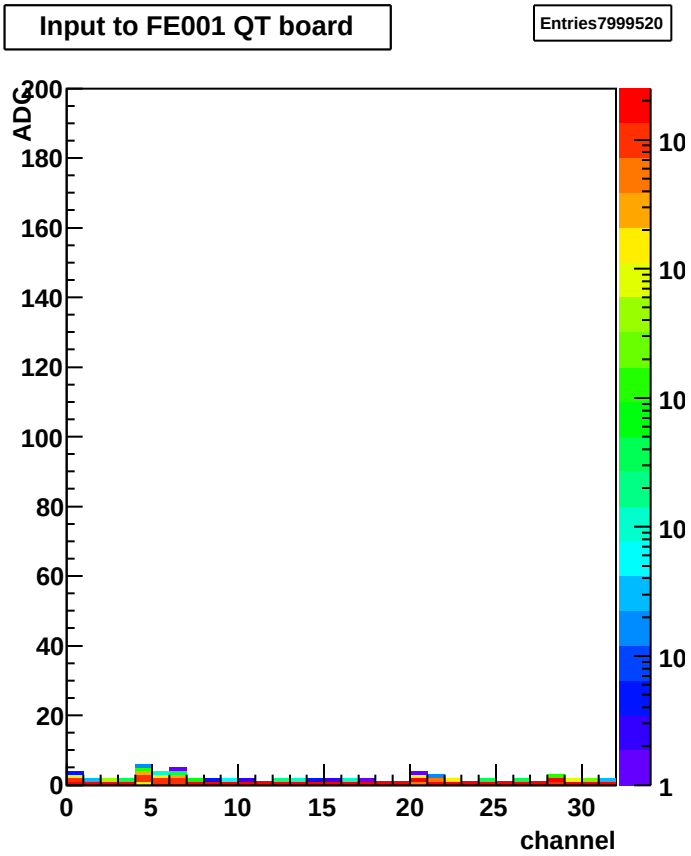

Input to FPD L2 DSM
Entries 749955
HT bits
249985
249985
249985
SMALL
LARGE-S
LARGE-N

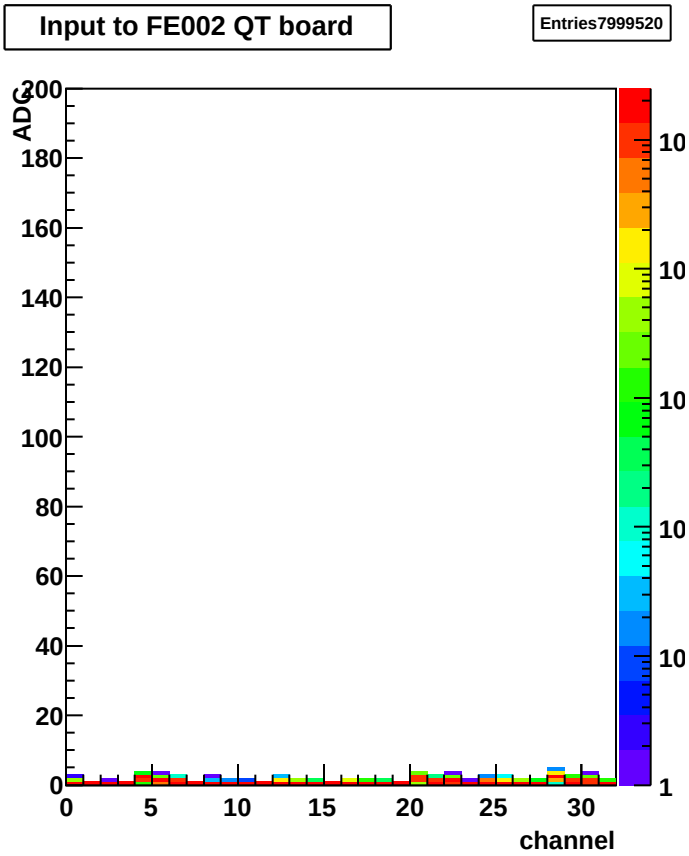

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

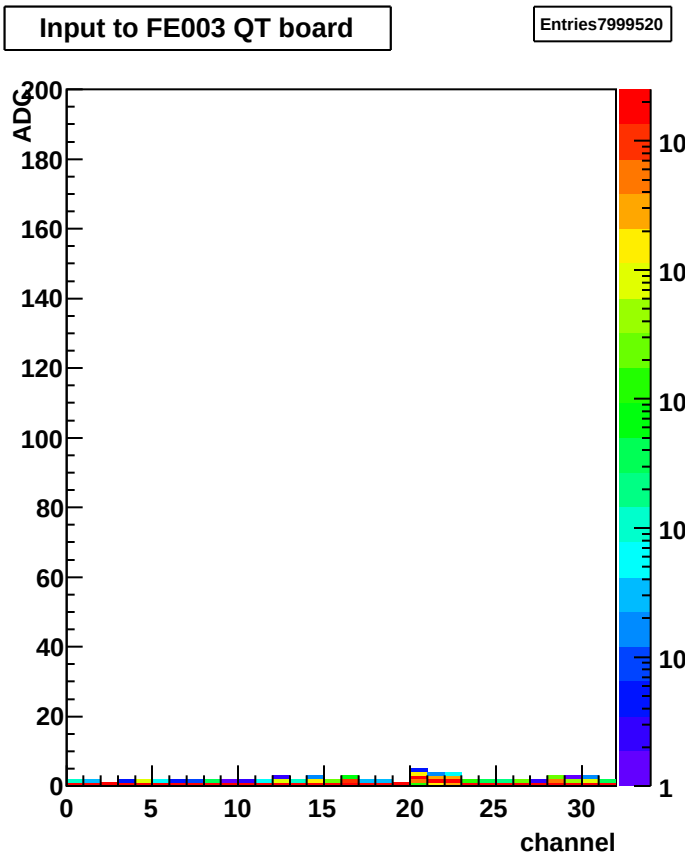

Input to FPD L3 DSM
Entries 3999760
bit
249985
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

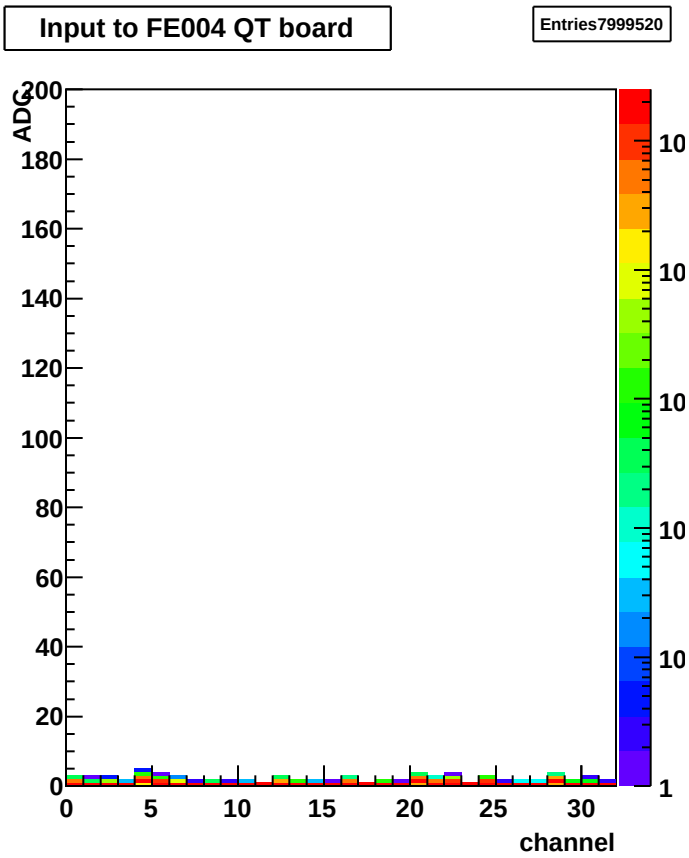

Input to FPD L3 DSM
Entries 624
bit - simulated
208
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

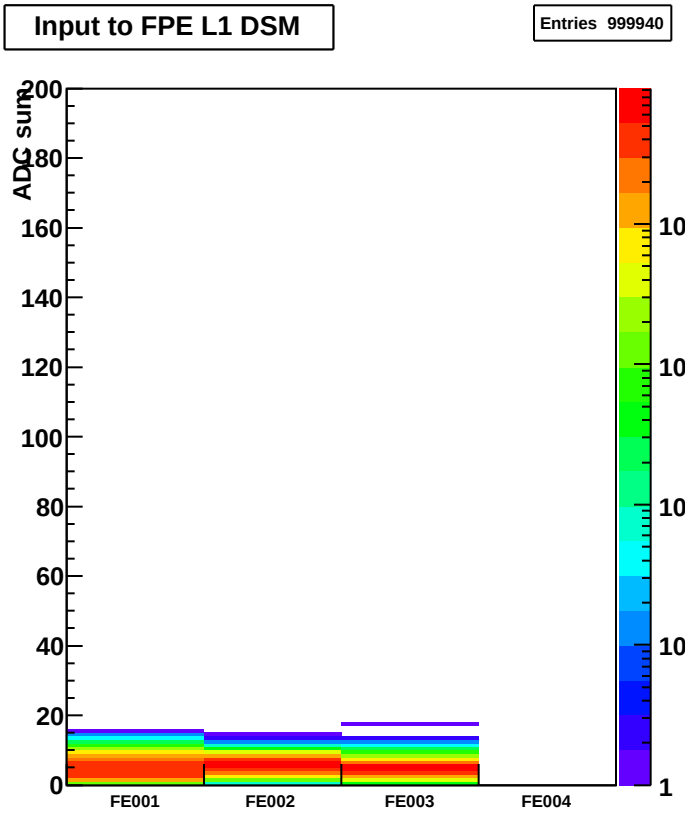

Input to FPD L2 DSM
Entries 999940
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

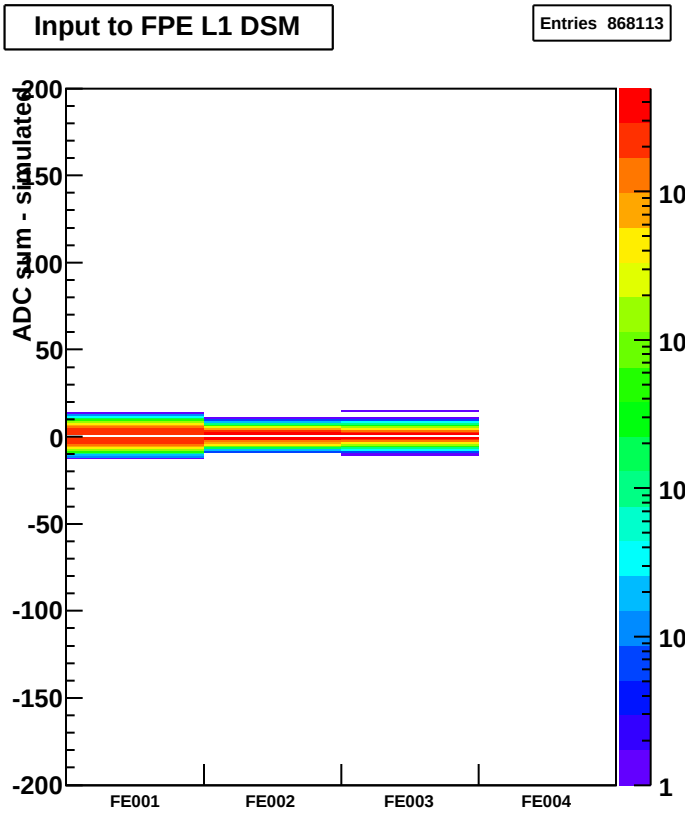

Input to FE001 QT board
Entries7999520
ADC
channel

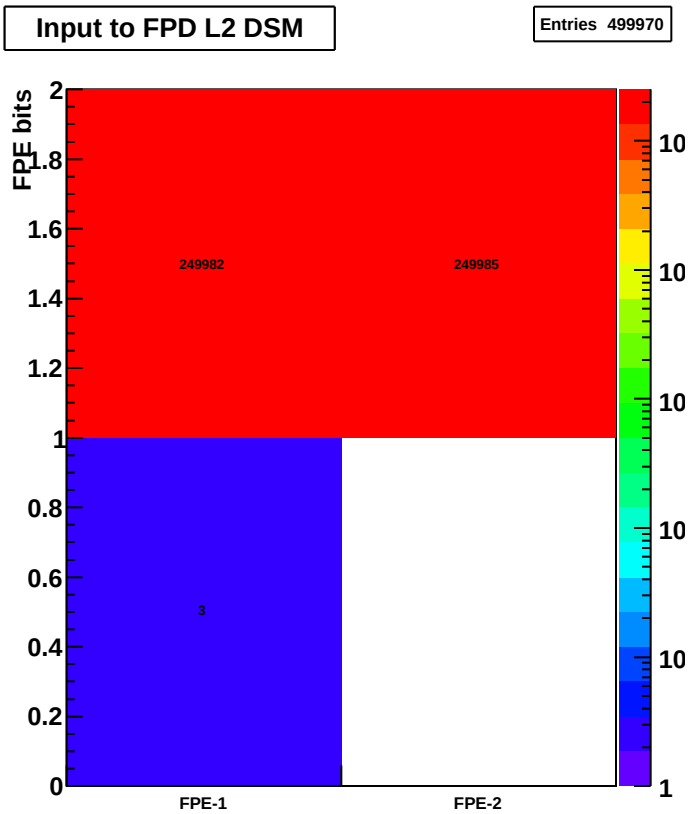

Input to FE002 QT board
Entries7999520
ADC
channel

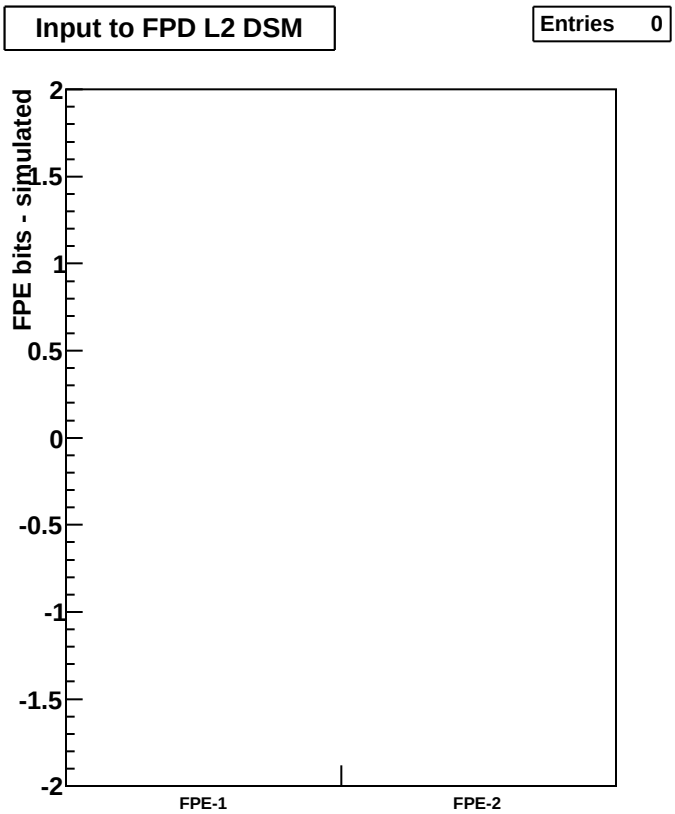

Input to FE003 QT board
Entries7999520
ADC
channel


Input to FE004 QT board
Entries7999520
ADC
channel


Input to FPE L1 DSM
Entries 999940
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 868113
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 499970
FPE bits
249982
249985
3
FPE-1
FPE-2


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
FPE-1
FPE-2