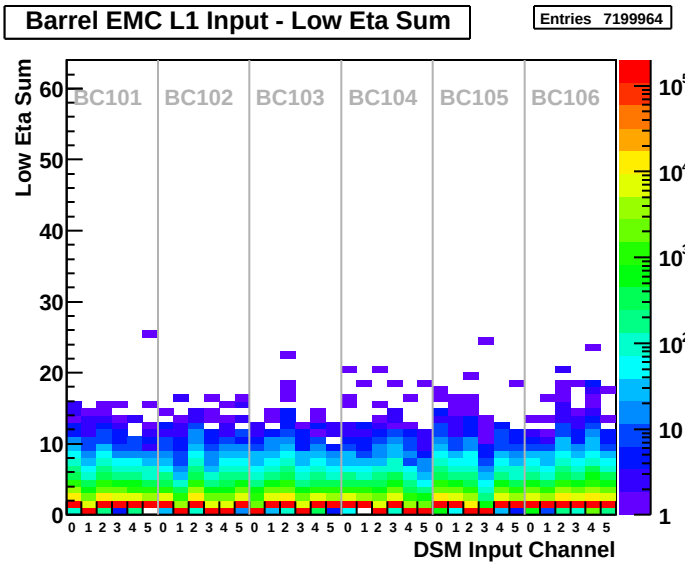
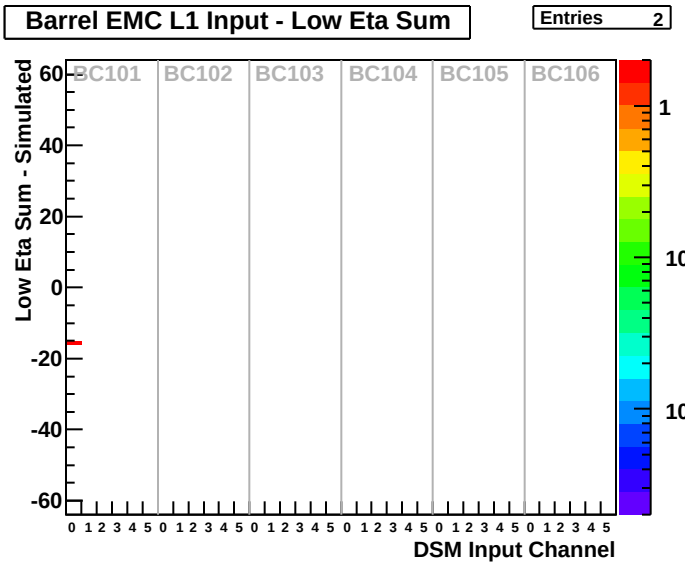
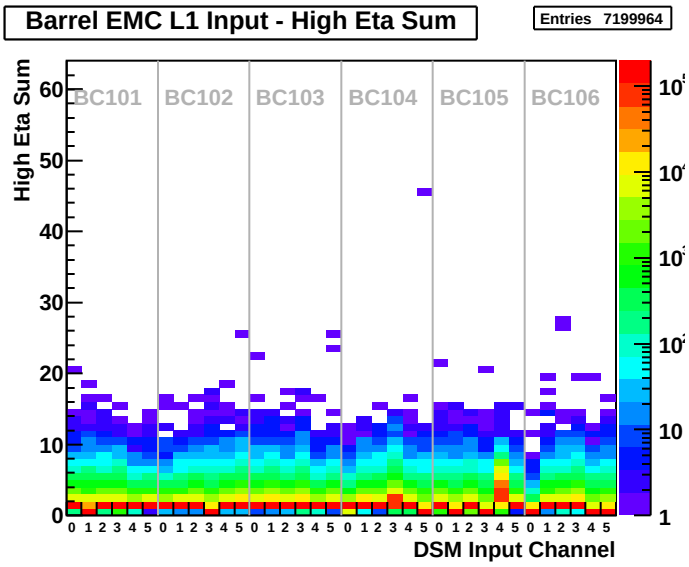
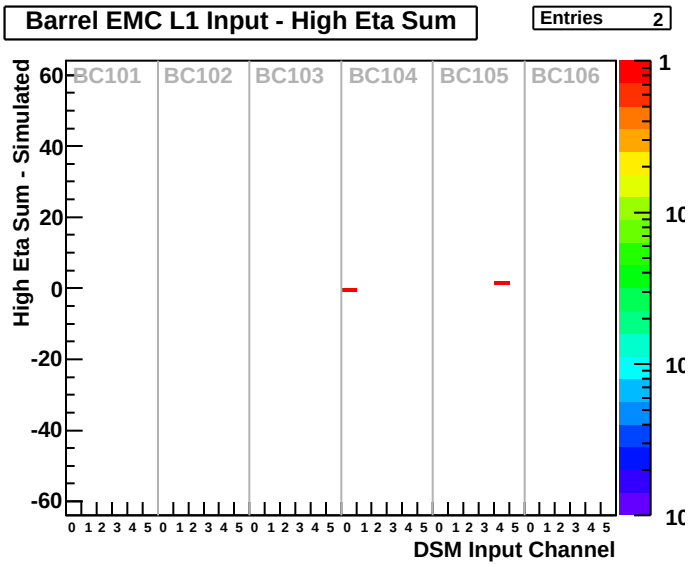
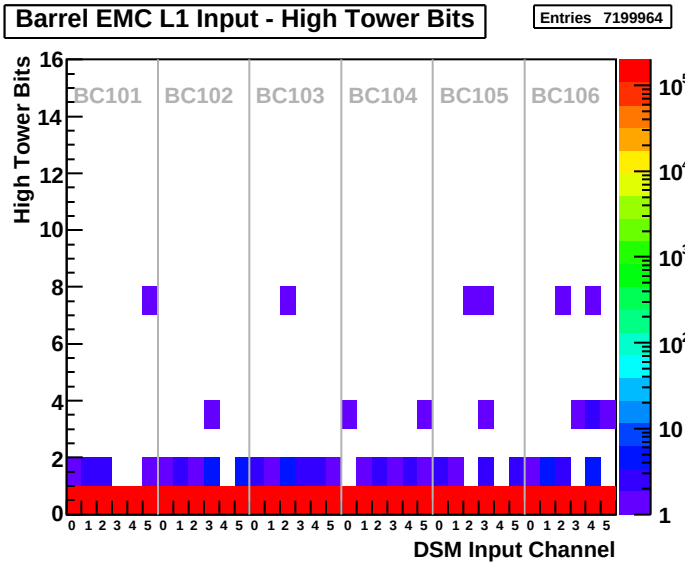
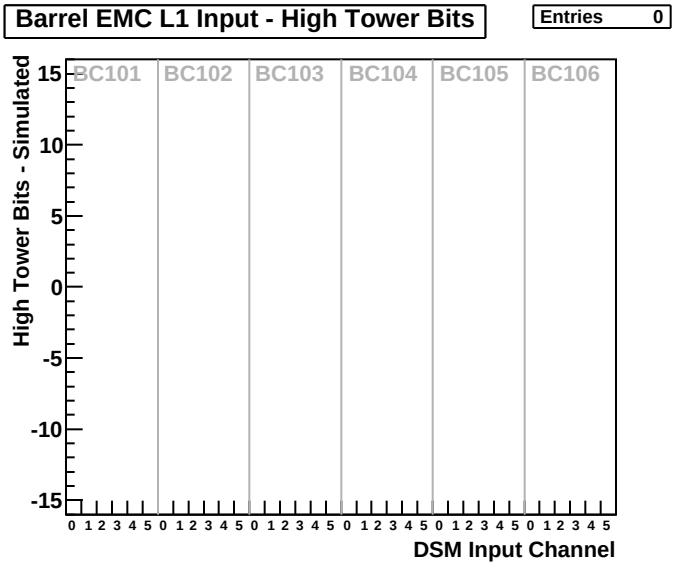

Barrel EMC L1 Input - Low Eta Sum
Entries 7199964
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

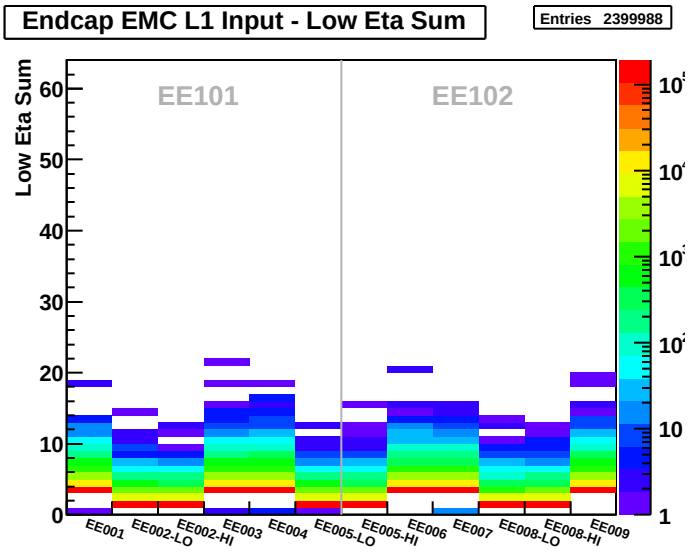

Barrel EMC L1 Input - Low Eta Sum
Entries 2
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

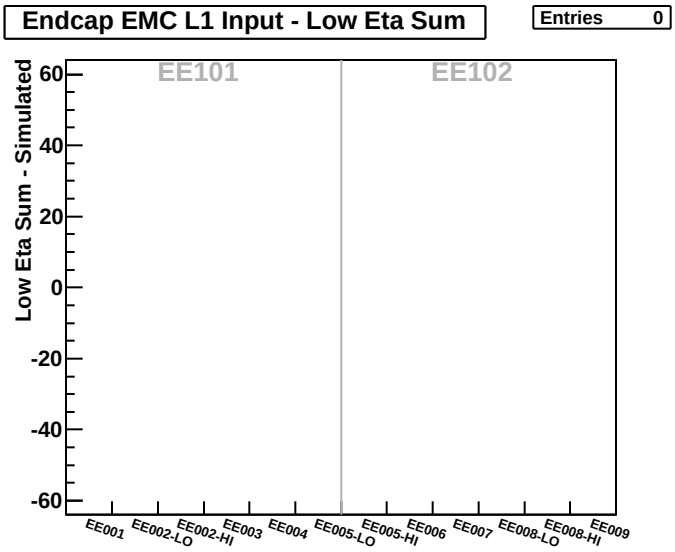

Barrel EMC L1 Input - High Eta Sum
Entries 7199964
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

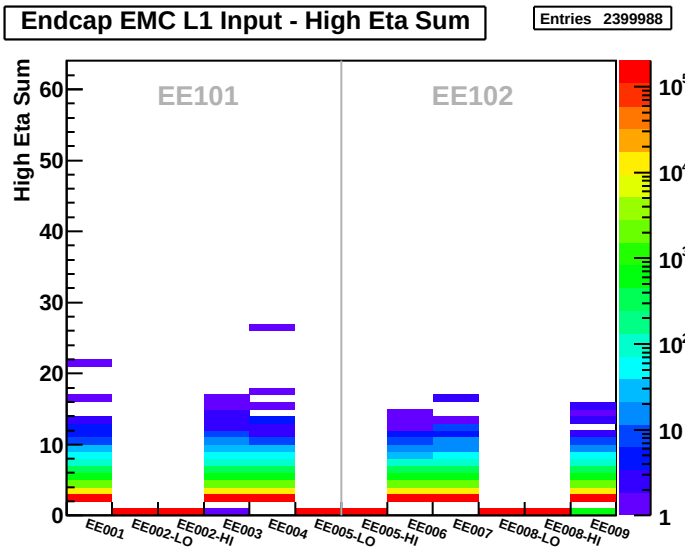

Barrel EMC L1 Input - High Eta Sum
Entries 2
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

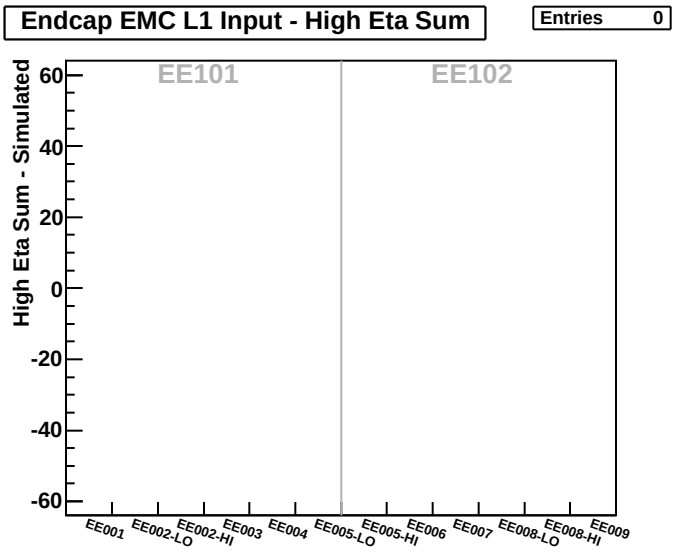

Barrel EMC L1 Input - High Tower Bits
Entries 7199964
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

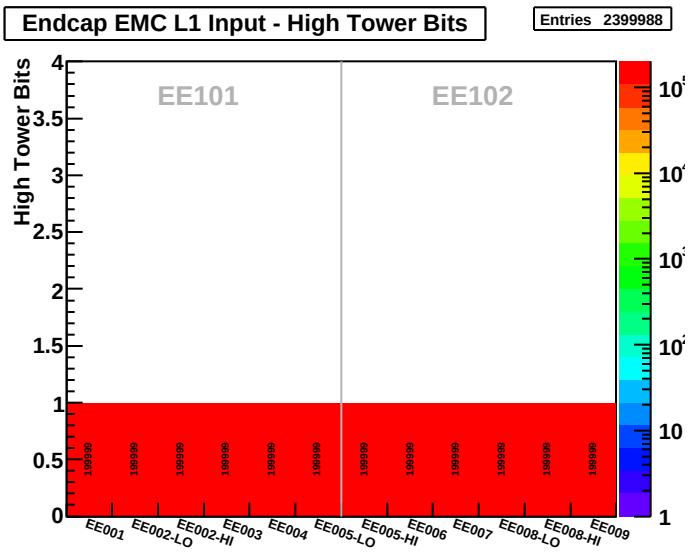

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

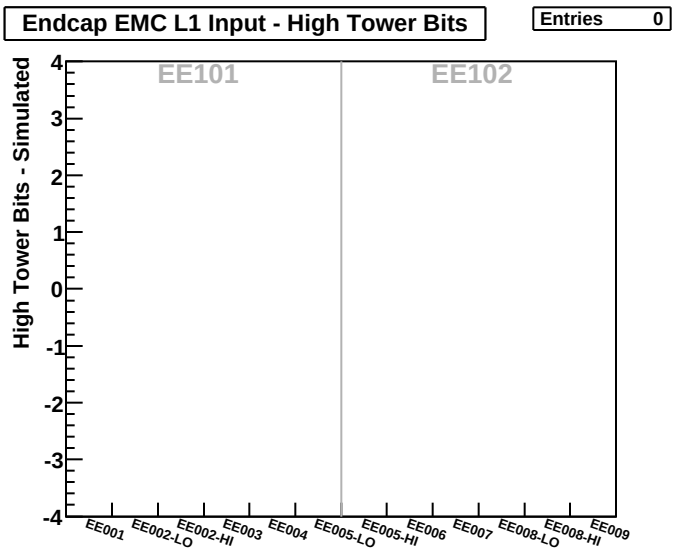

Endcap EMC L1 Input - Low Eta Sum
Entries 2399988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

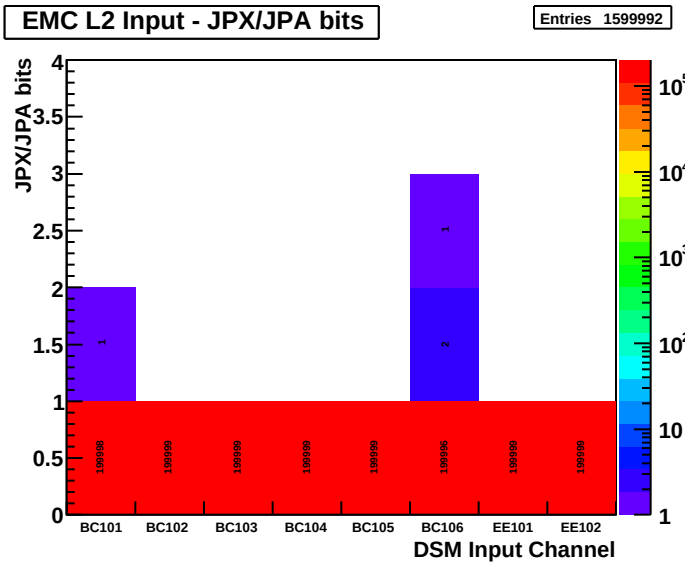

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

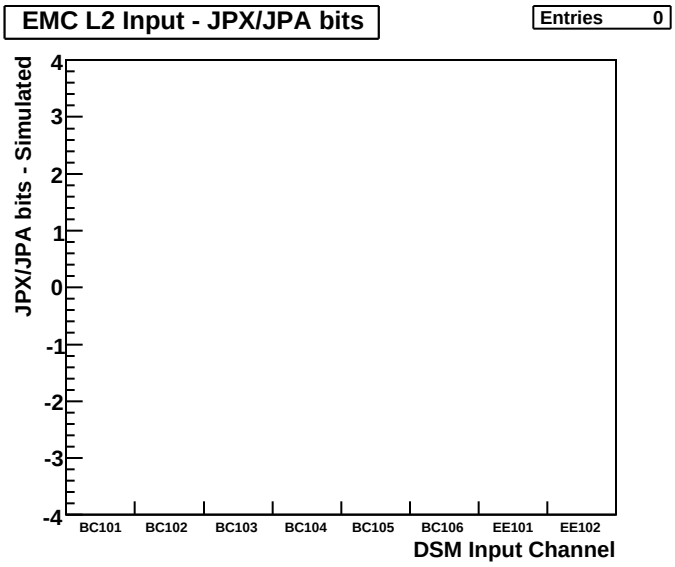

Endcap EMC L1 Input - High Eta Sum
Entries 2399988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

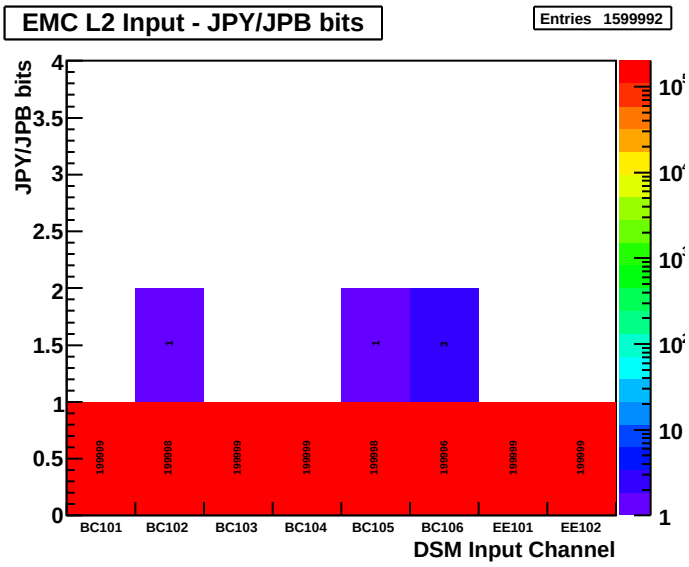

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

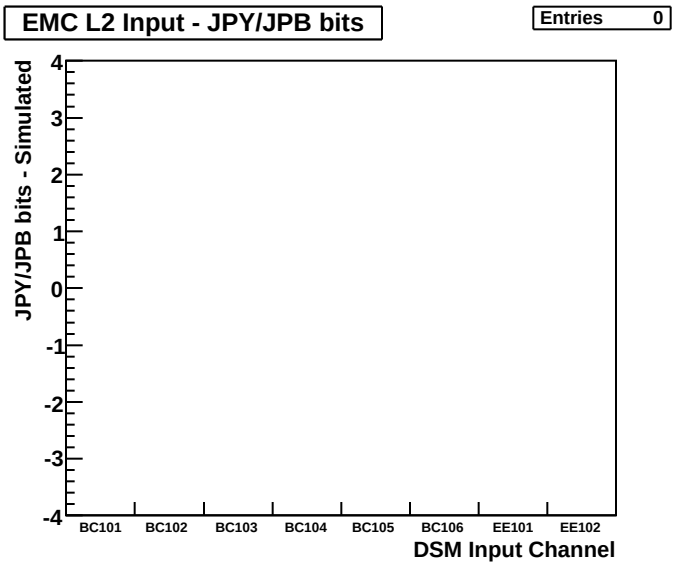

Endcap EMC L1 Input - High Tower Bits
Entries 2399988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

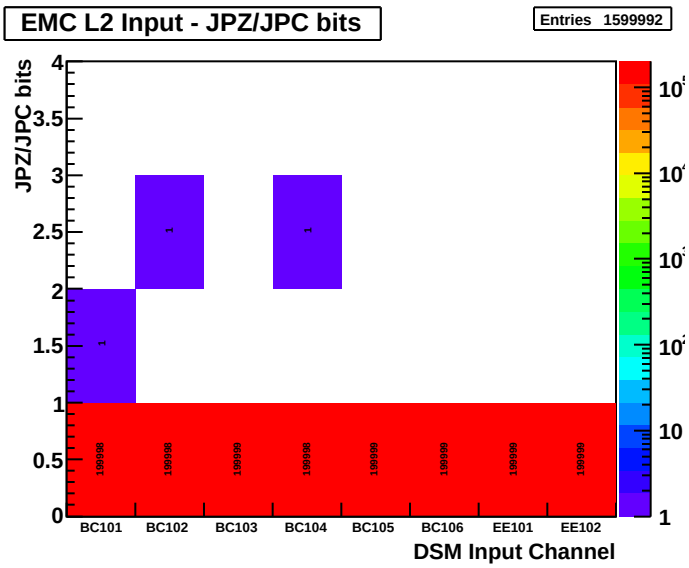

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

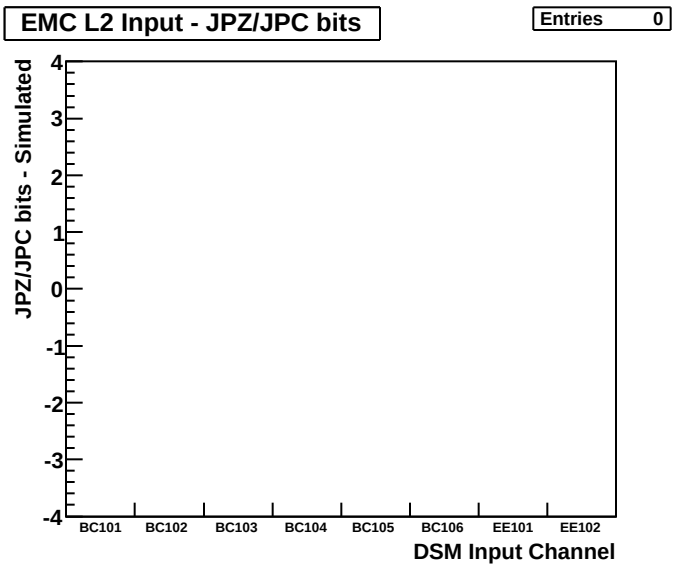

EMC L2 Input - JPX/JPA bits
Entries 1599992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

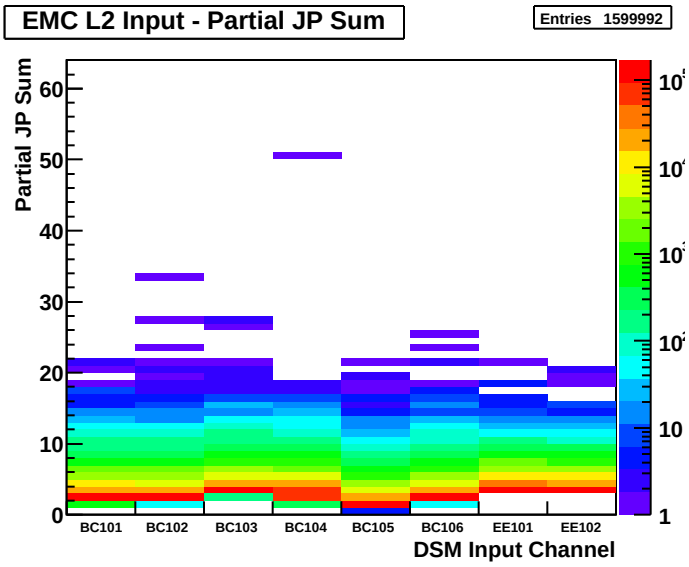

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

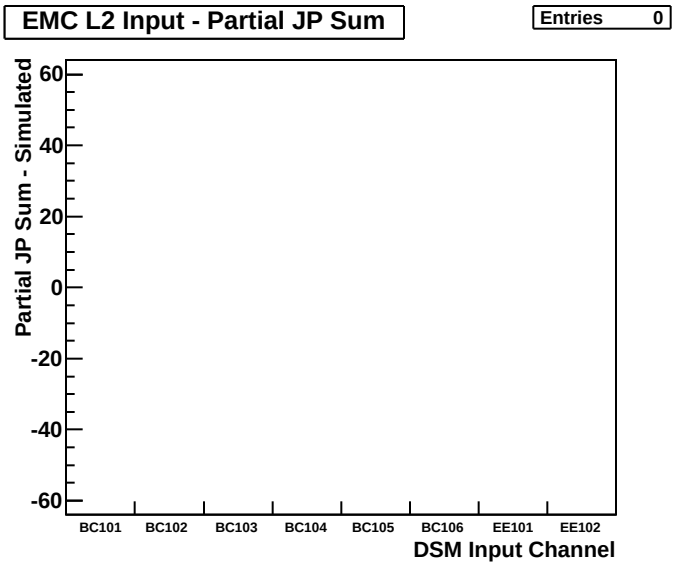

EMC L2 Input - JPY/JPB bits
Entries 1599992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

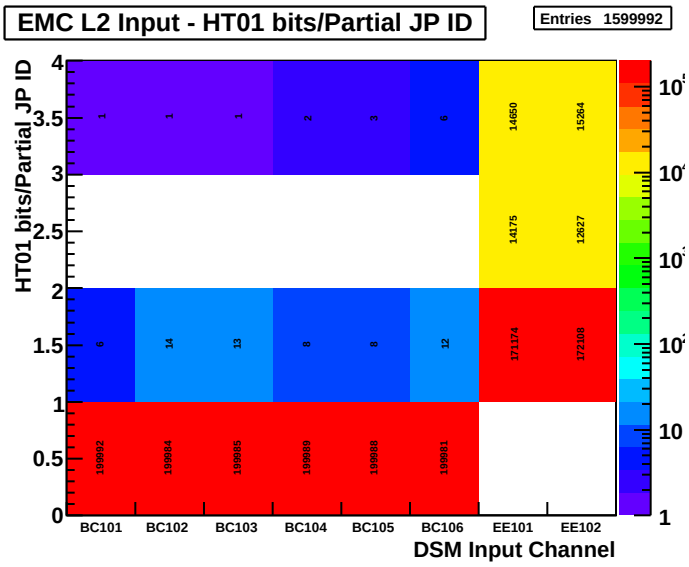

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

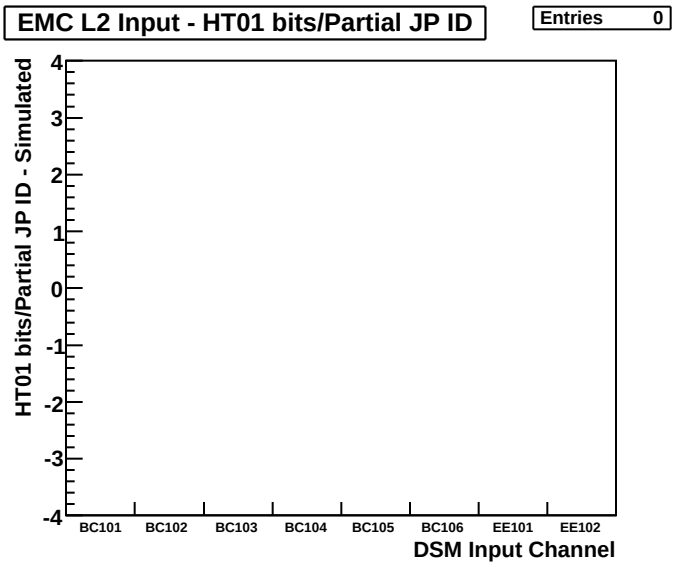

EMC L2 Input - JPZ/JPC bits
Entries 1599992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

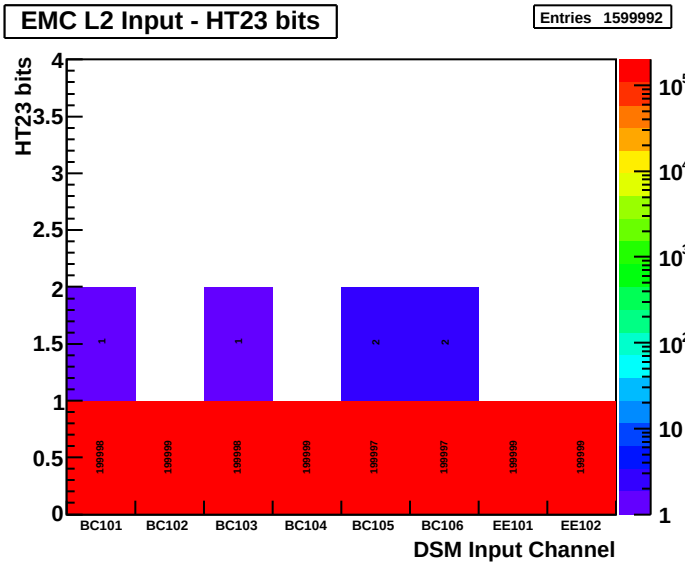

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

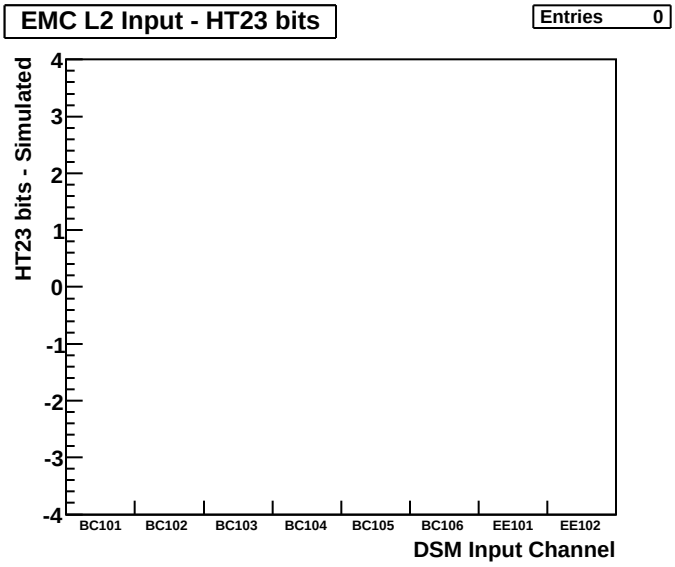

EMC L2 Input - Partial JP Sum
Entries 1599992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

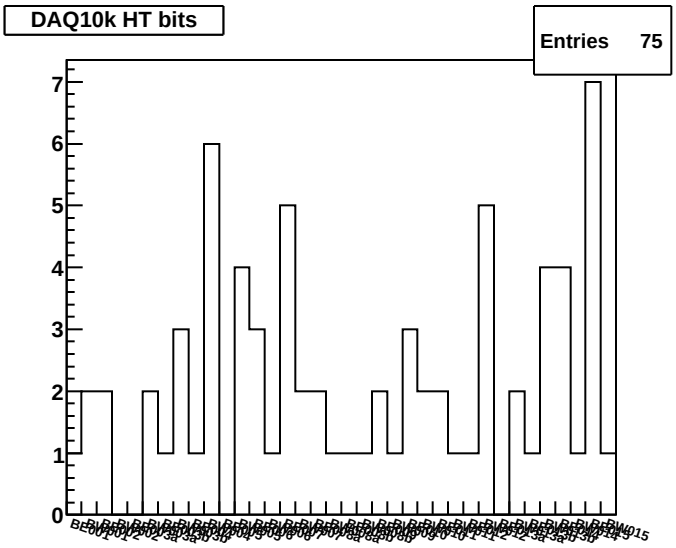

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

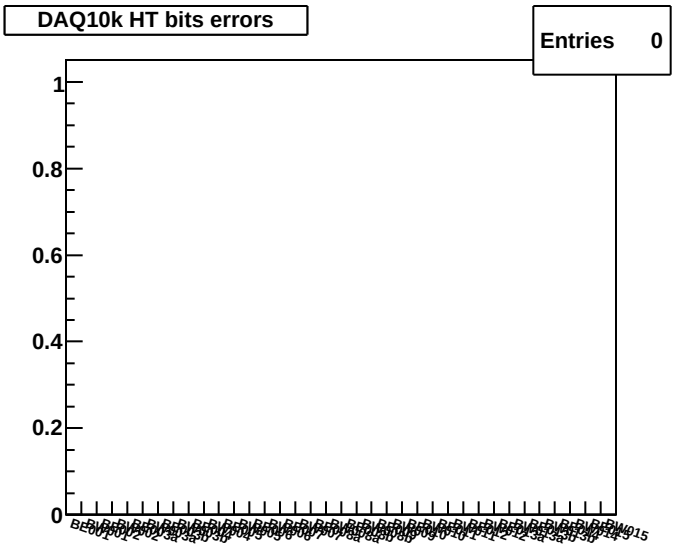

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1599992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

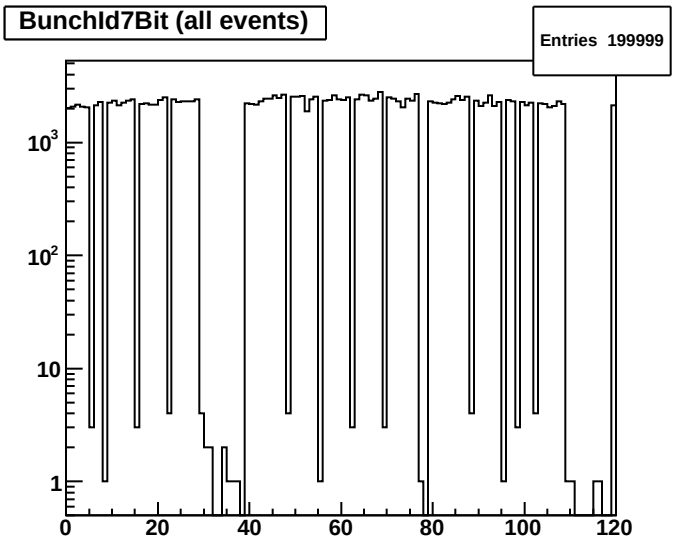

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

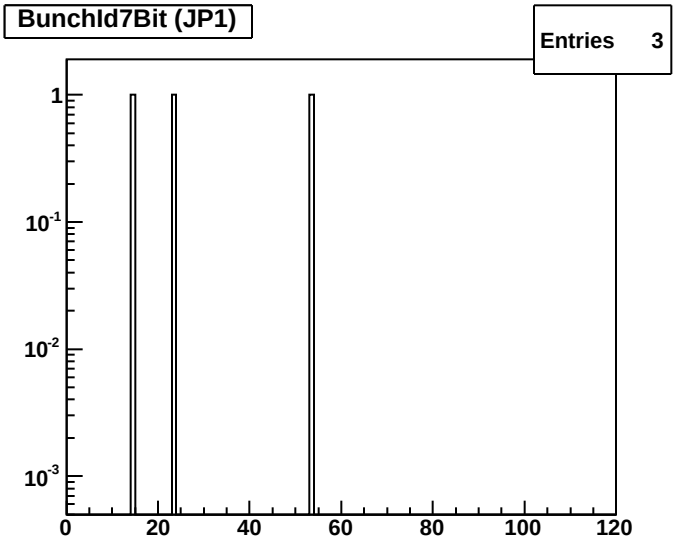

EMC L2 Input - HT23 bits
Entries 1599992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

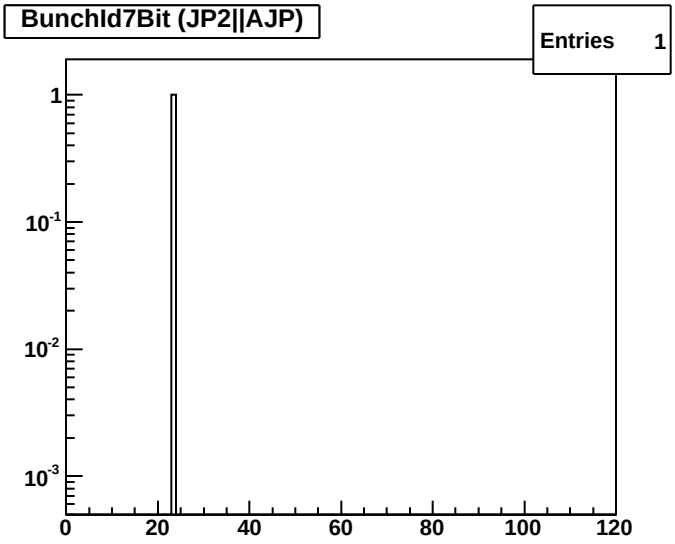

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

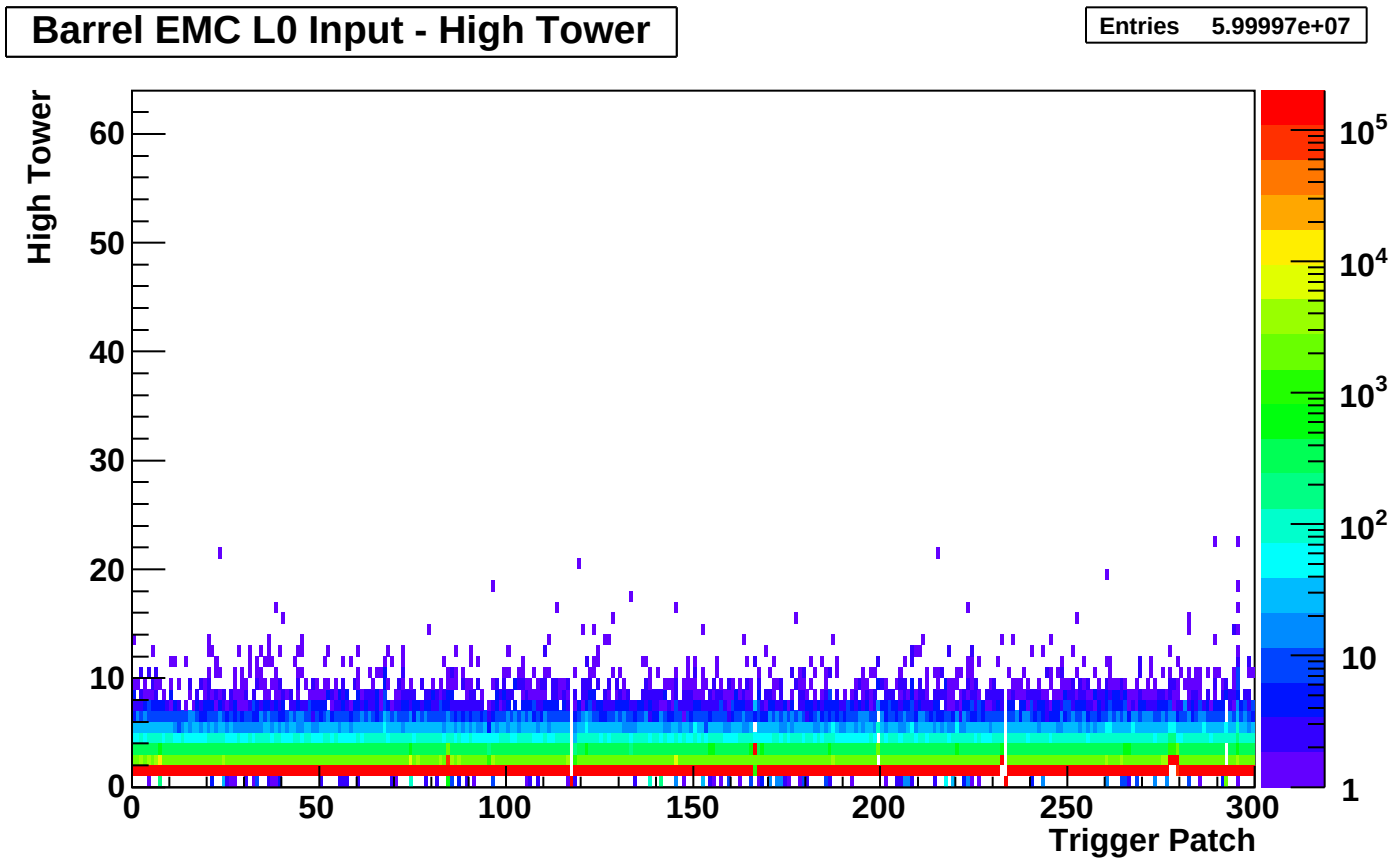

DAQ10k HT bits
Entries 75

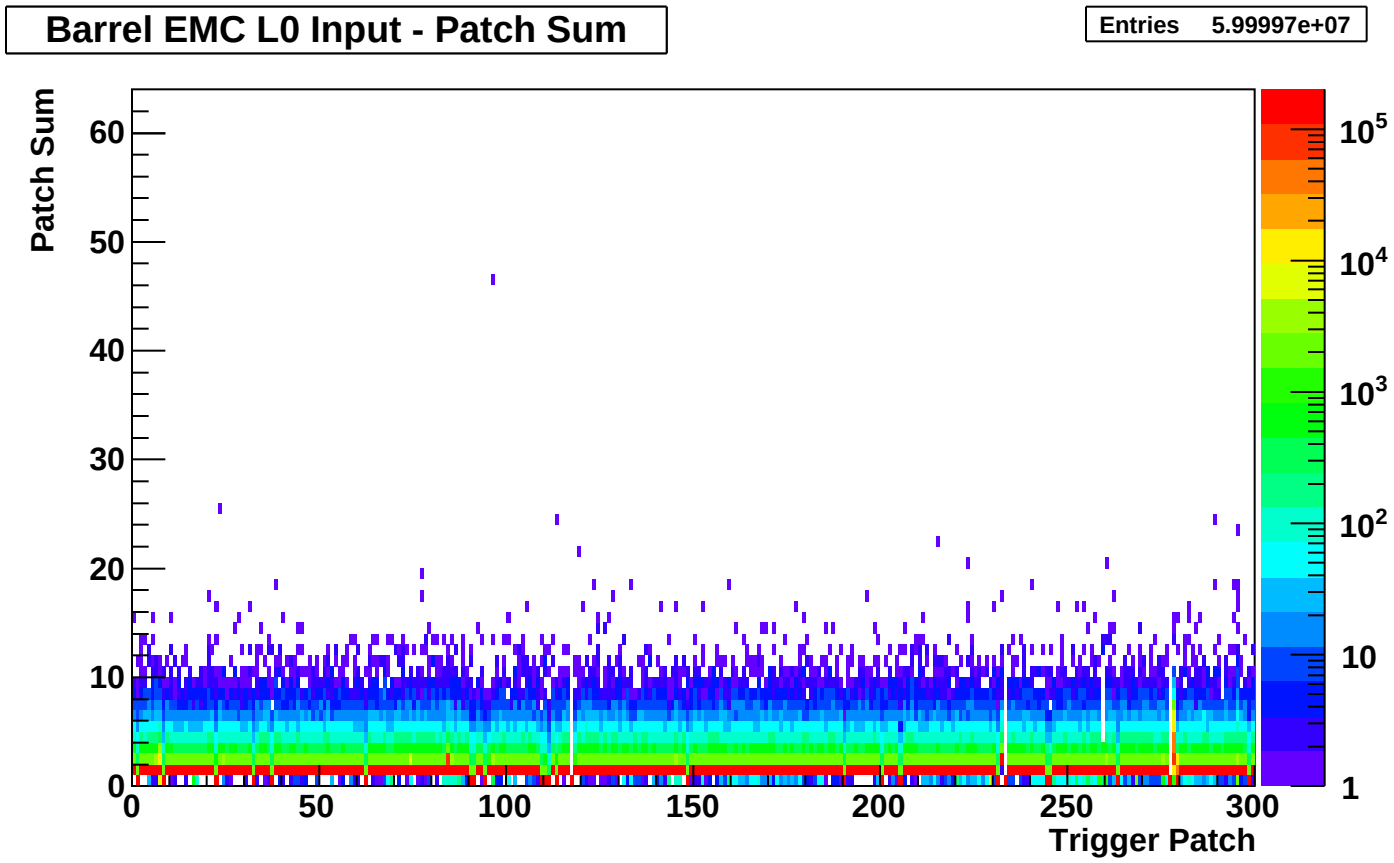

DAQ10k HT bits errors
Entries 0

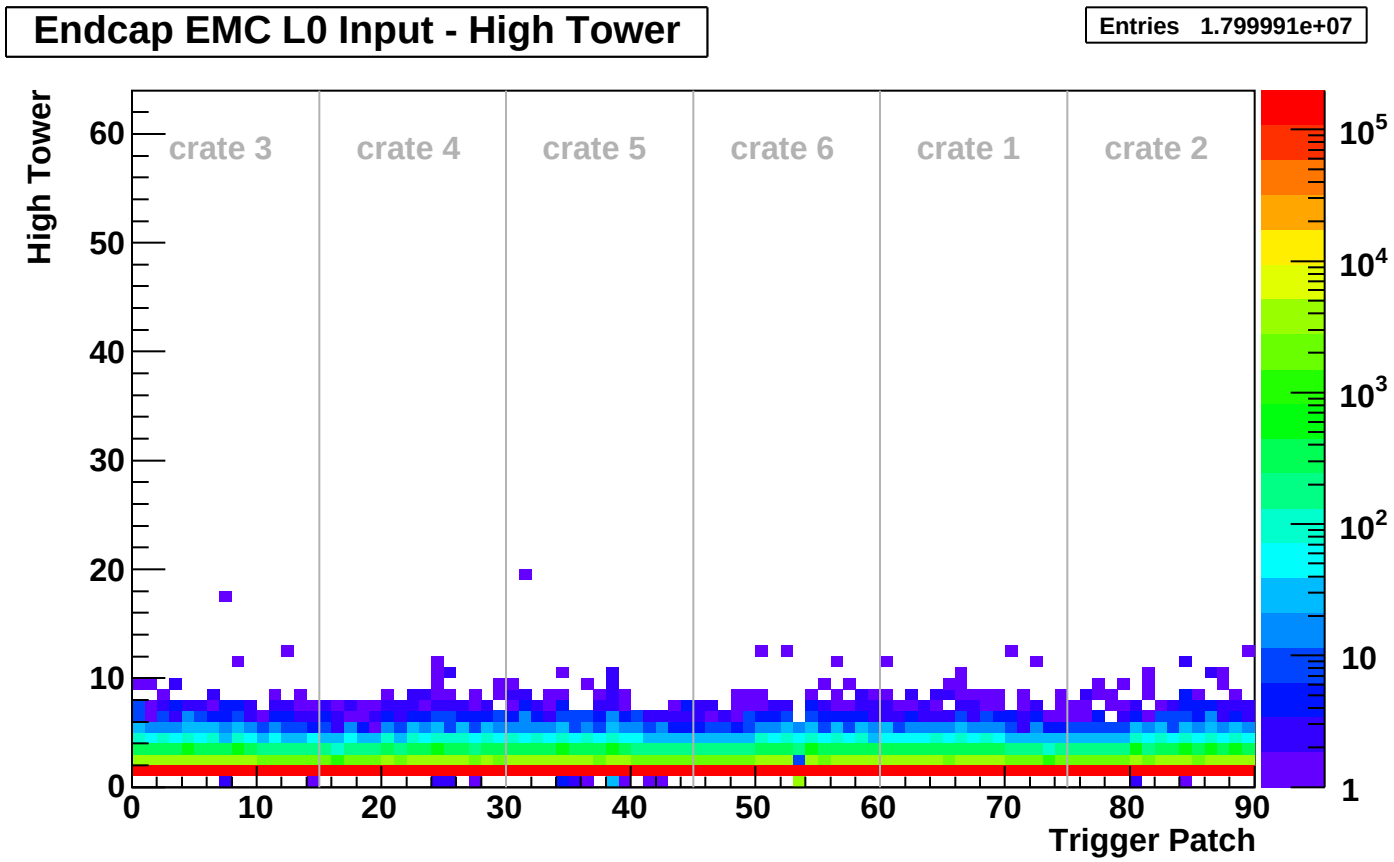

BunchId7Bit (all events)
Entries 199999

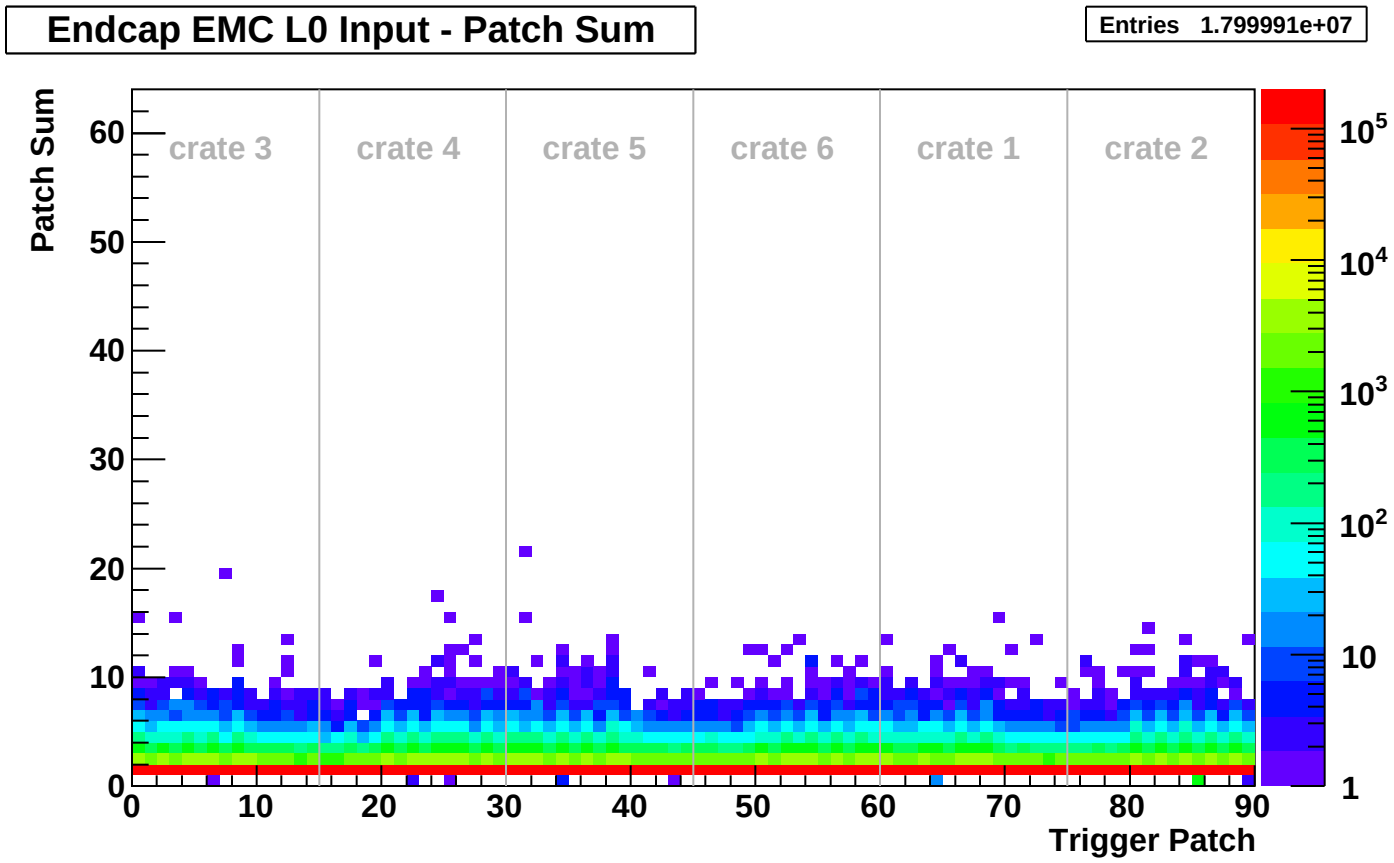

BunchId7Bit (JP1)
Entries 3

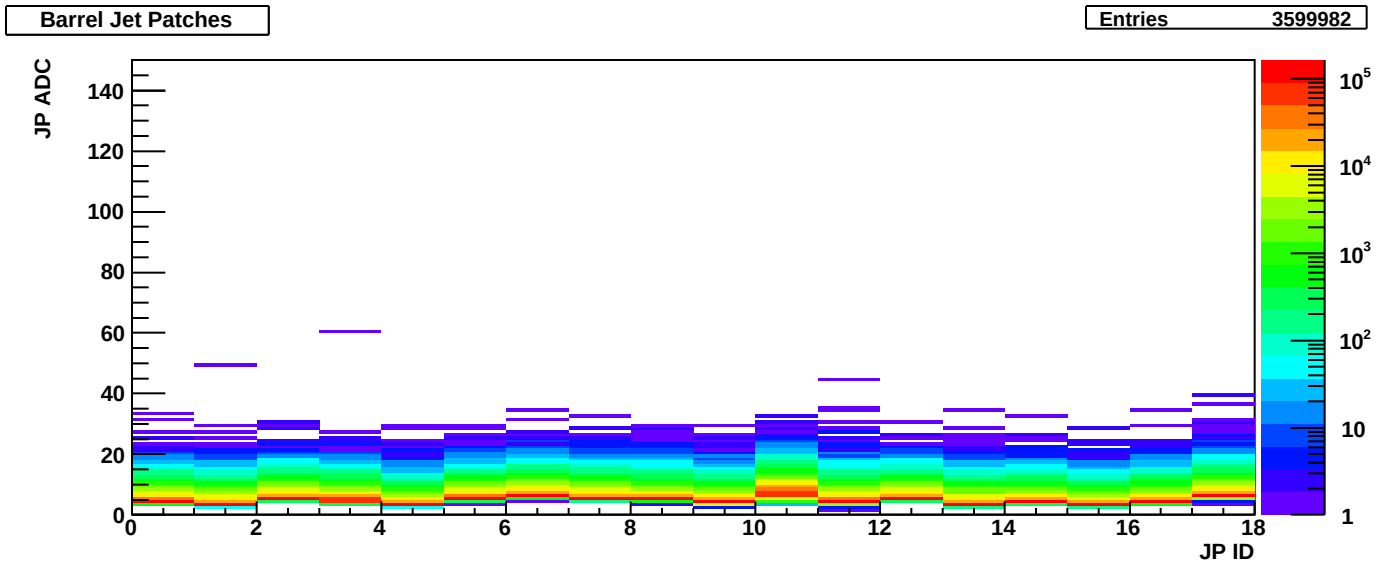

BunchId7Bit (JP2||AJP)
Entries 1

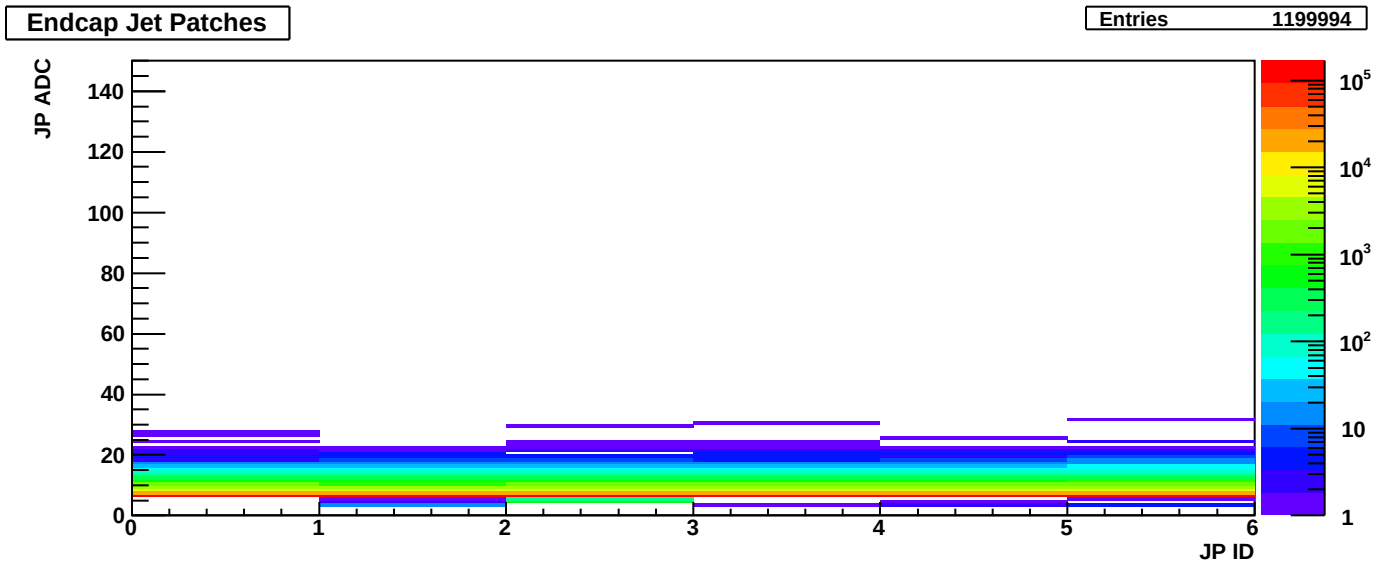

Barrel EMC L0 Input - High Tower
Entries 5.99997e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

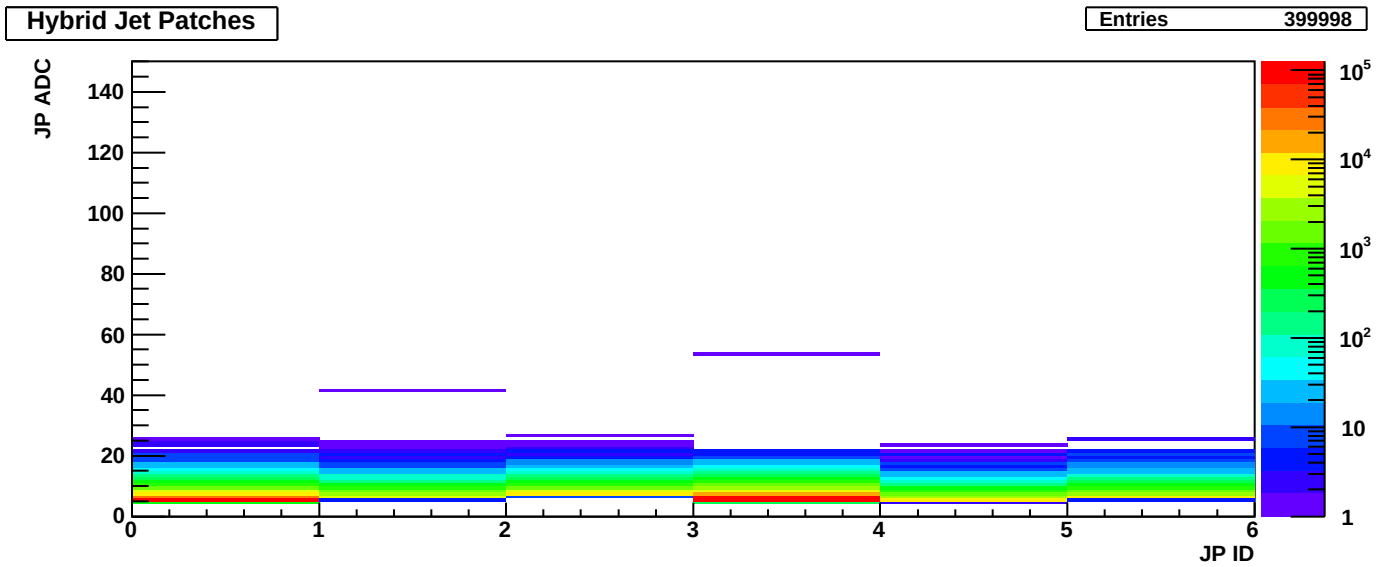

Barrel EMC L0 Input - Patch Sum
Entries 5.99997e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

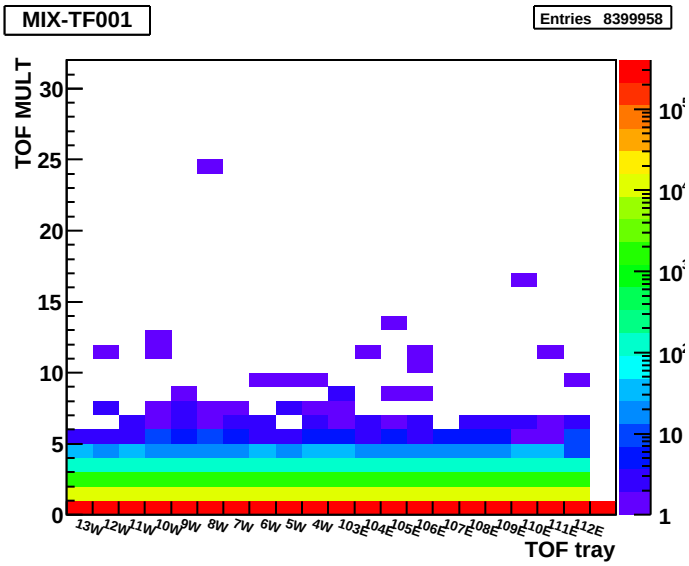

Endcap EMC L0 Input - High Tower
Entries 1.799991e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

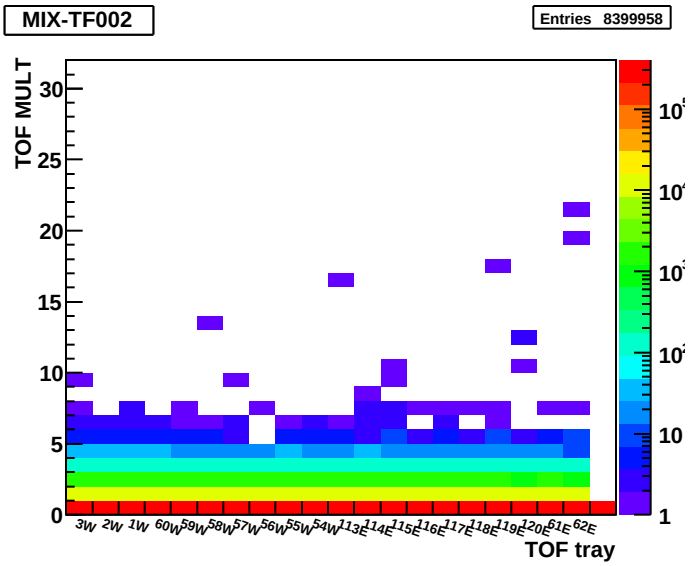

Endcap EMC L0 Input - Patch Sum
Entries 1.799991e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

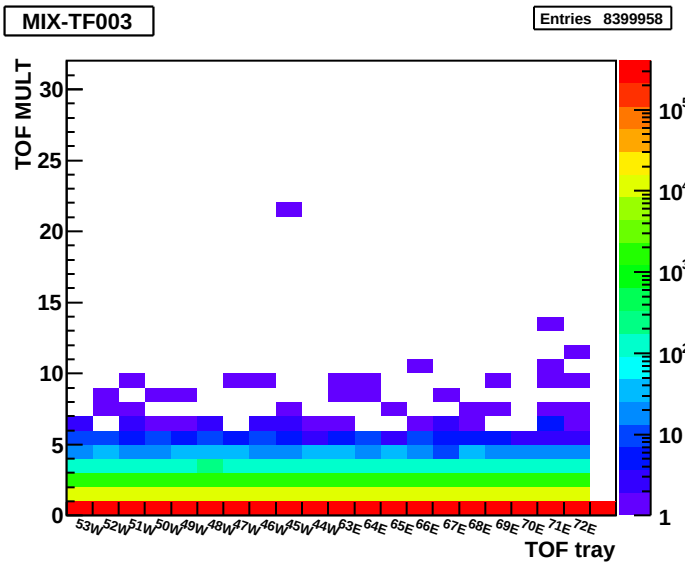

Barrel Jet Patches
Entries 3599982
JP ADC
JP ID

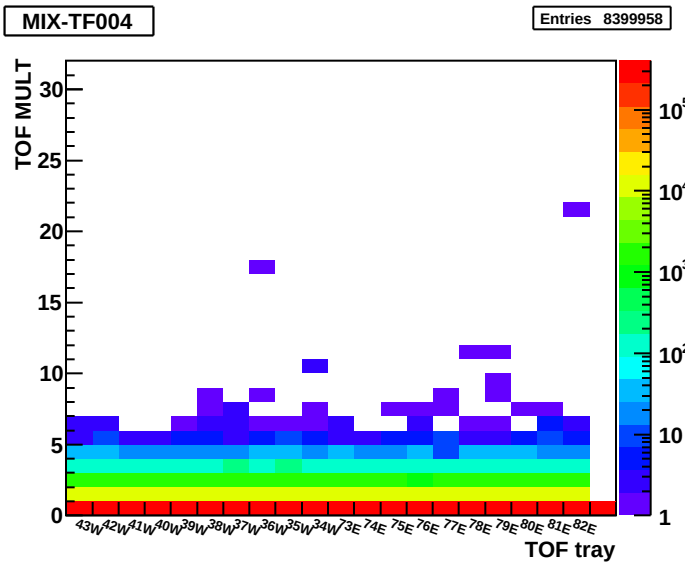

Endcap Jet Patches
Entries 1199994
JP ADC
JP ID

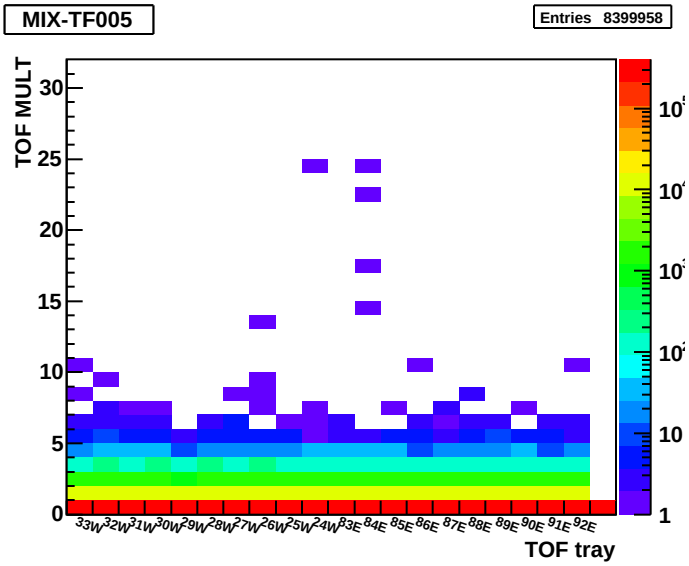

Hybrid Jet Patches
Entries 399998
JP ADC
JP ID

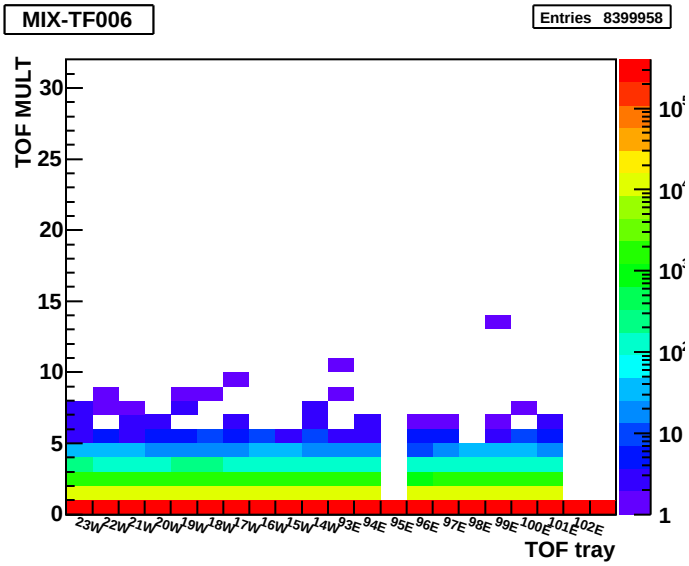

MIX-TF001
Entries 8399958
TOF MULT
TOF tray

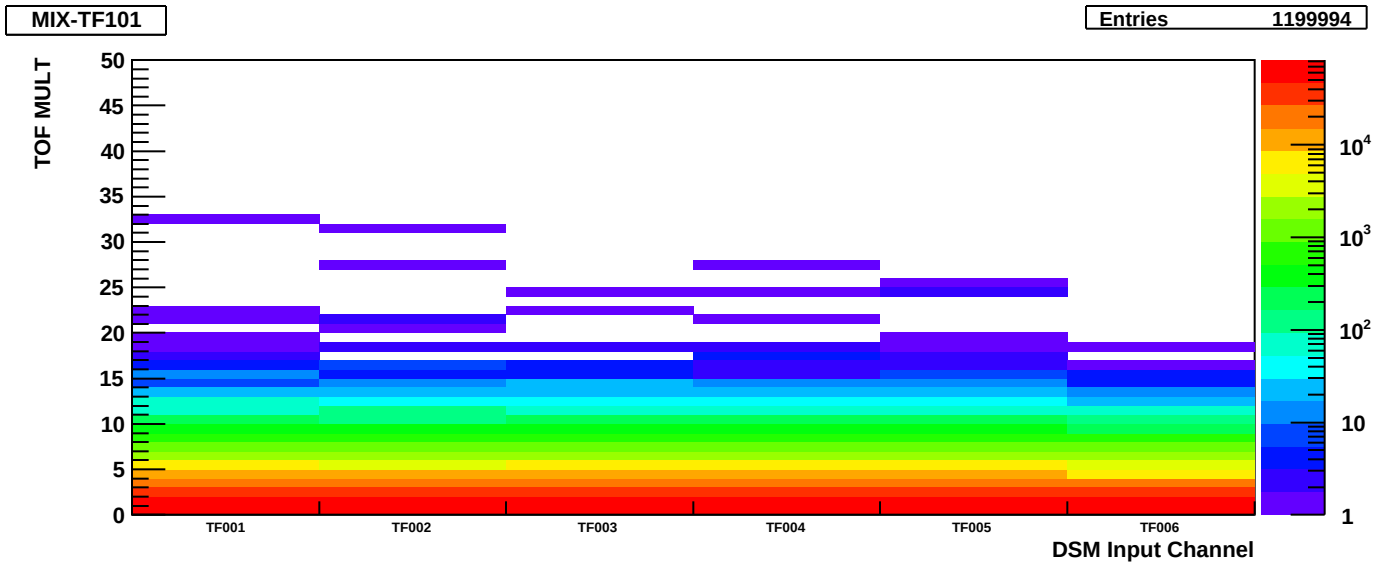

MIX-TF002
Entries 8399958
TOF MULT
TOF tray

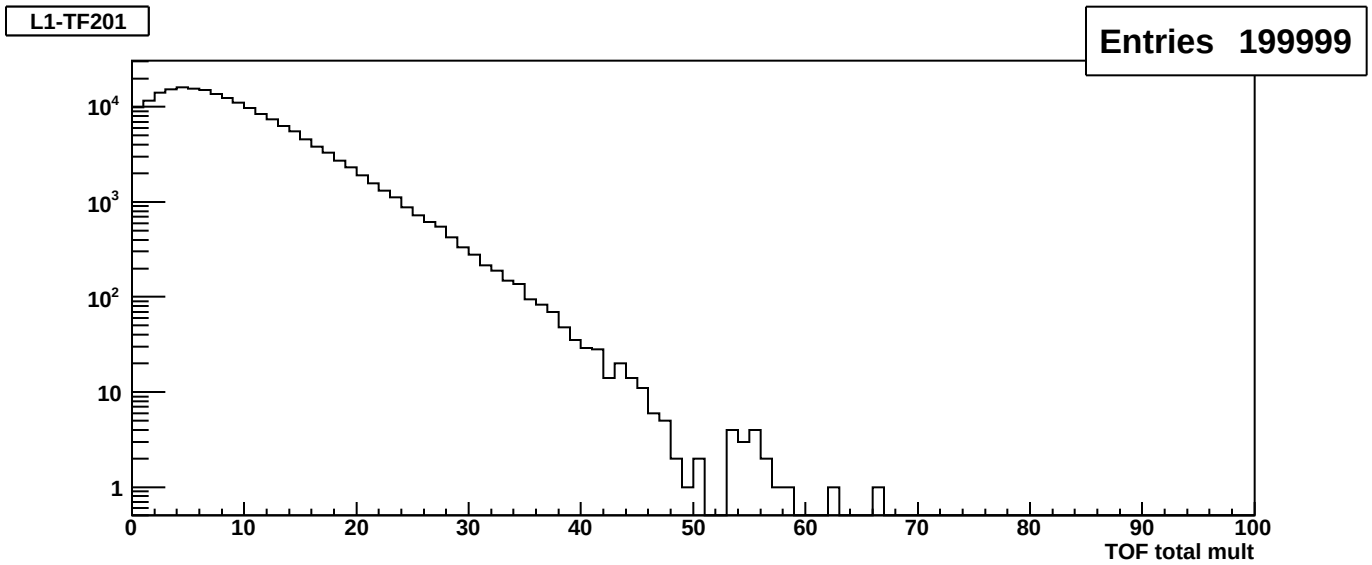

MIX-TF003
Entries 8399958
TOF MULT
TOF tray

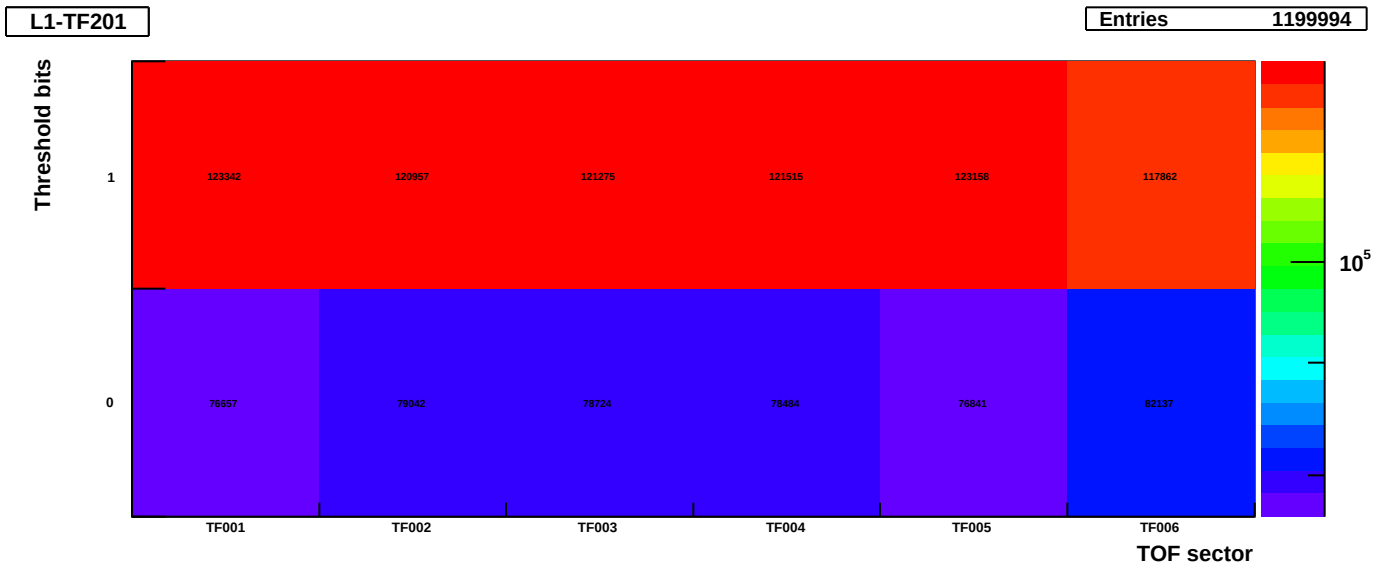

MIX-TF004
Entries 8399958
TOF MULT
TOF tray

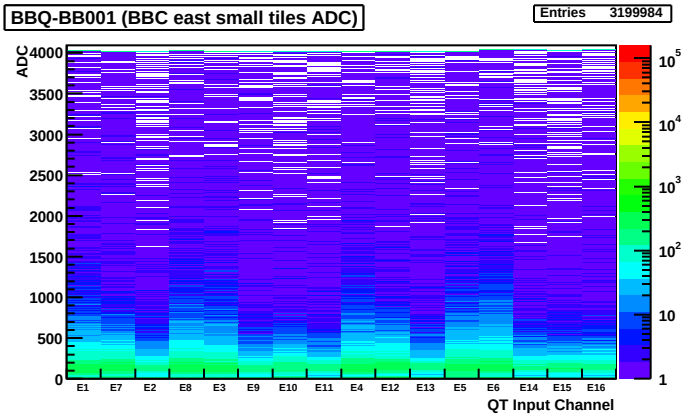

MIX-TF005
Entries 8399958
TOF MULT
TOF tray

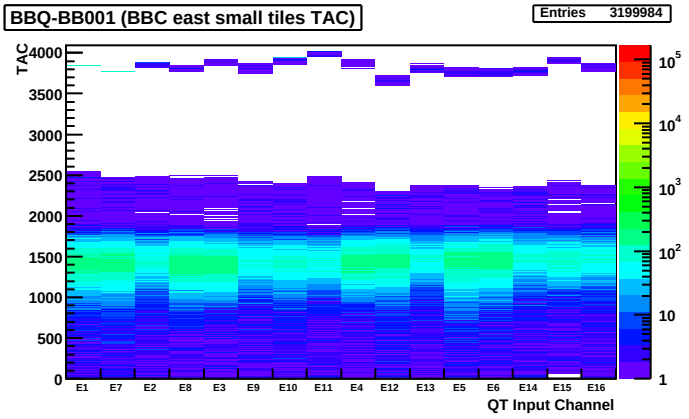

MIX-TF006
Entries 8399958
TOF MULT
TOF tray

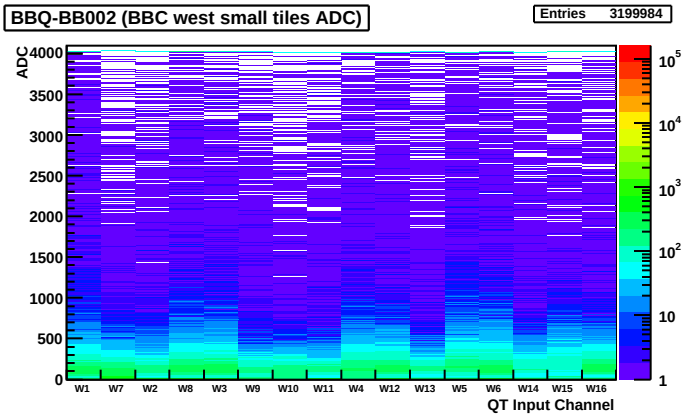

MIX-TF101
Entries 1199994
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

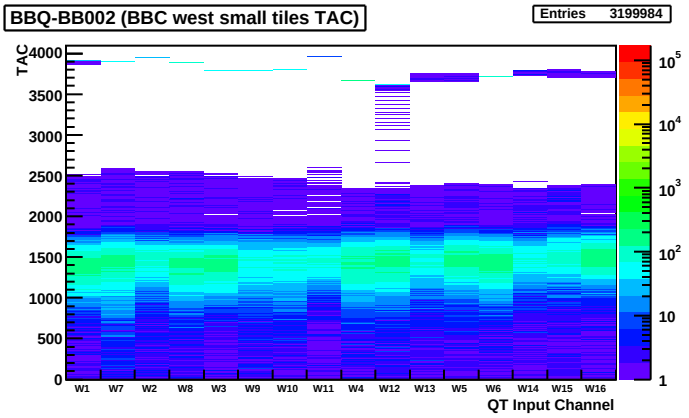

L1-TF201
Entries 199999
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

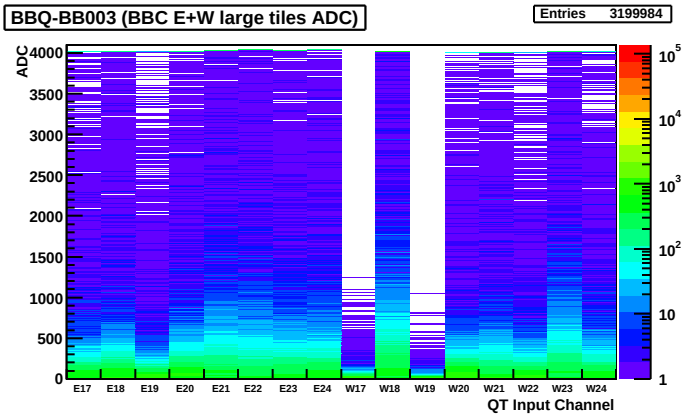

L1-TF201
Entries 1199994
Threshold bits
1
0
123342
120957
121275
121515
123158
117862
76657
79042
78724
78484
76841
82137
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

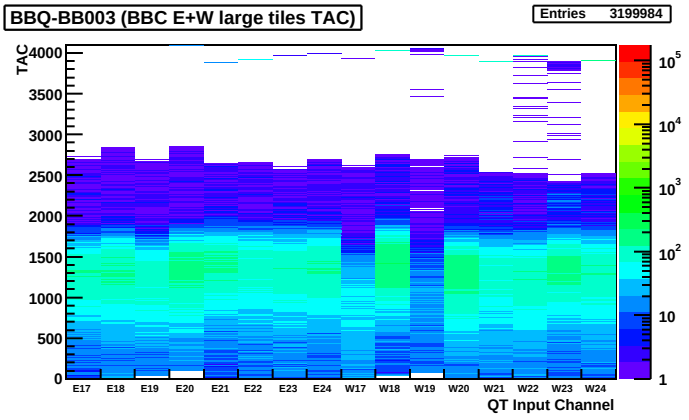

BBQ-BB001 (BBC east small tiles ADC)
Entries 3199984
ADC
QT Input Channel

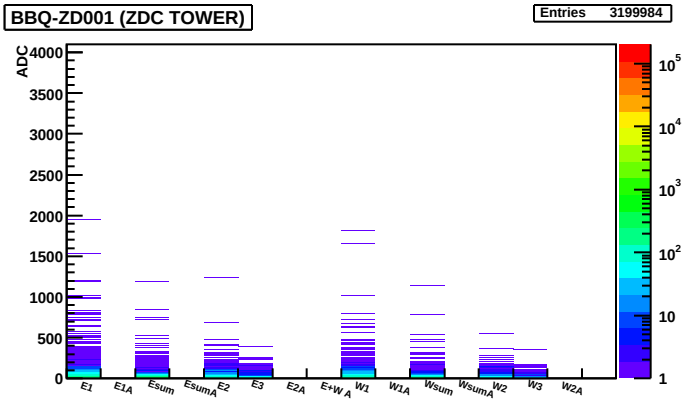

BBQ-BB001 (BBC east small tiles TAC)
Entries 3199984
TAC
QT Input Channel

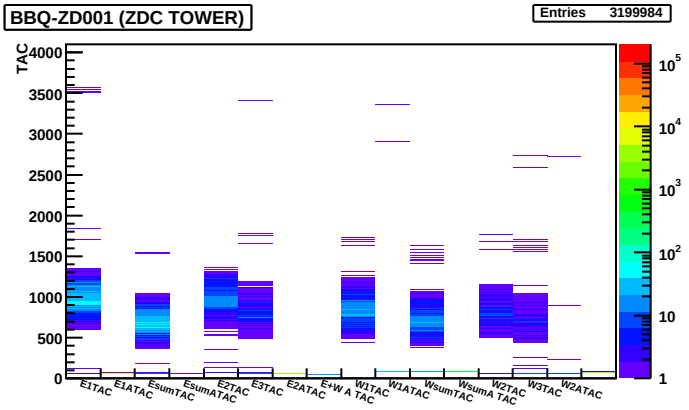

BBQ-BB002 (BBC west small tiles ADC)
Entries 3199984
ADC
QT Input Channel

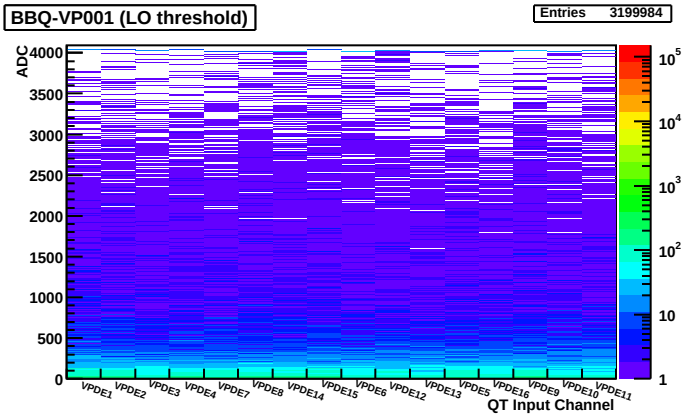

BBQ-BB002 (BBC west small tiles TAC)
Entries 3199984
TAC
QT Input Channel

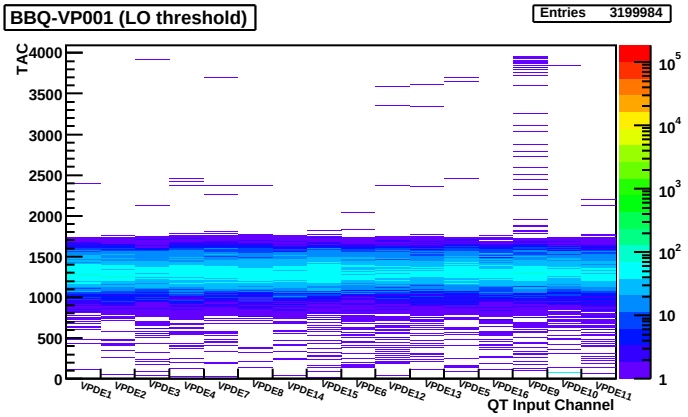

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3199984
ADC
QT Input Channel

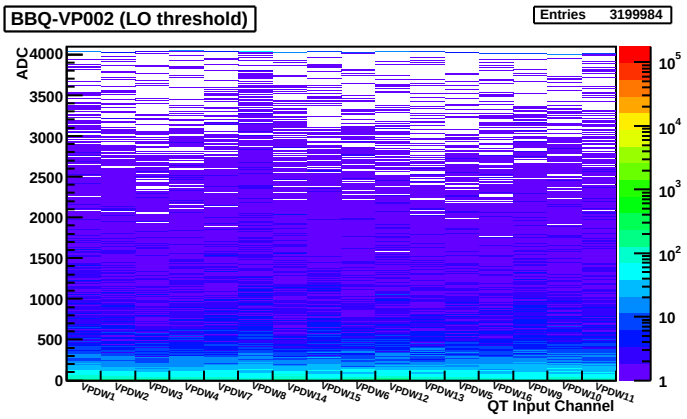

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3199984
TAC
QT Input Channel

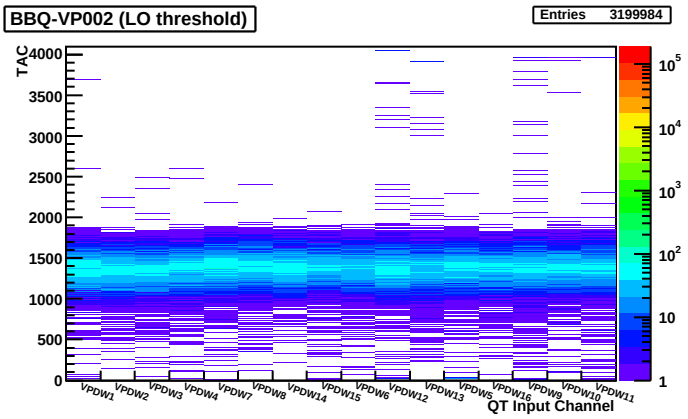

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
ADC

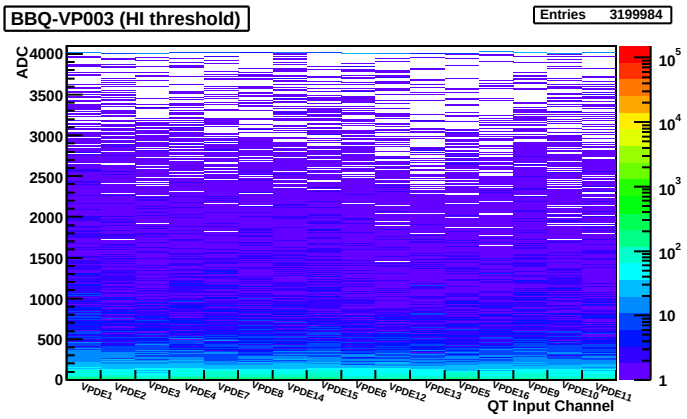

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
TAC

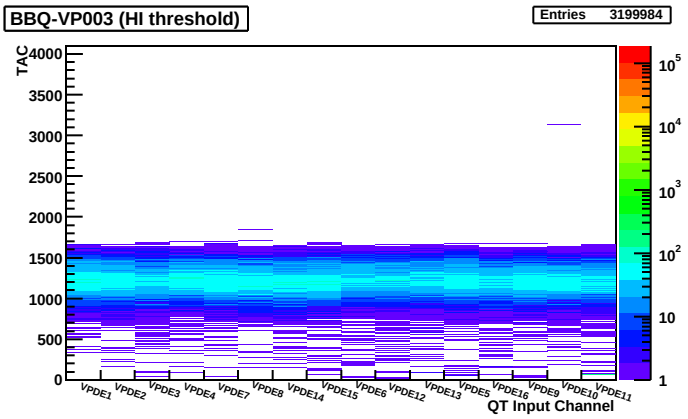

BBQ-VP001 (LO threshold)
Entries 3199984
ADC
QT Input Channel

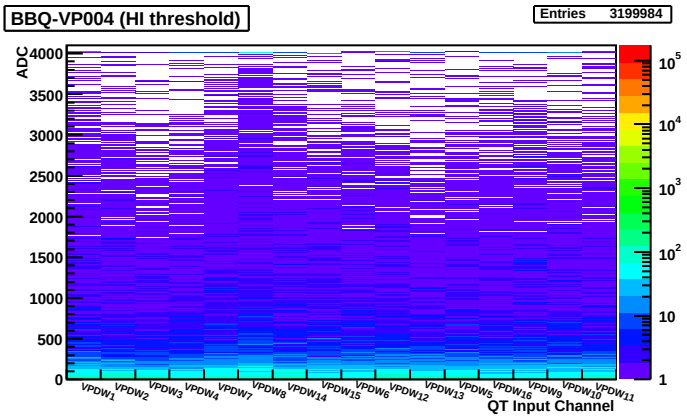

BBQ-VP001 (LO threshold)
Entries 3199984
TAC
QT Input Channel

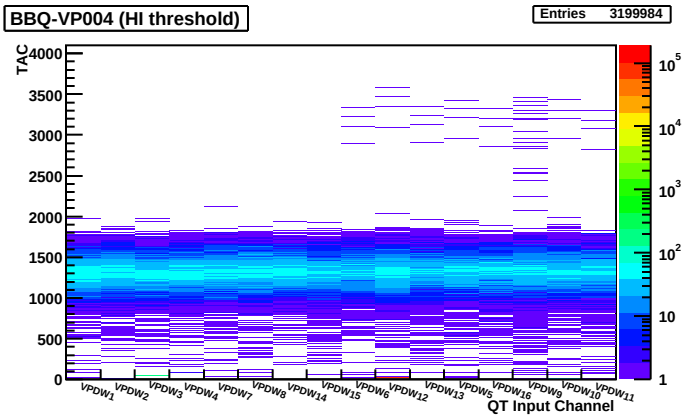

BBQ-VP002 (LO threshold)
Entries 3199984
ADC
QT Input Channel

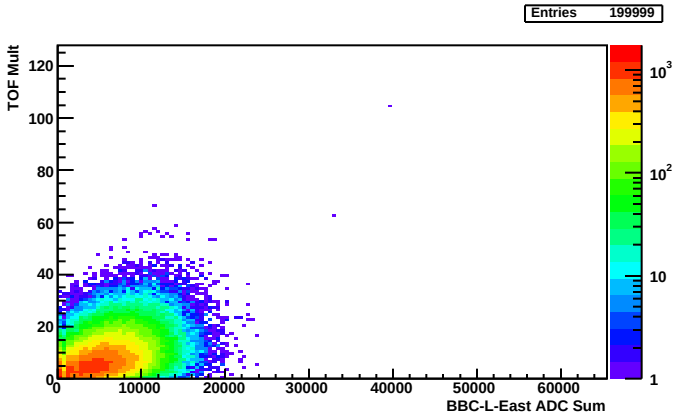

BBQ-VP002 (LO threshold)
Entries 3199984
TAC
QT Input Channel

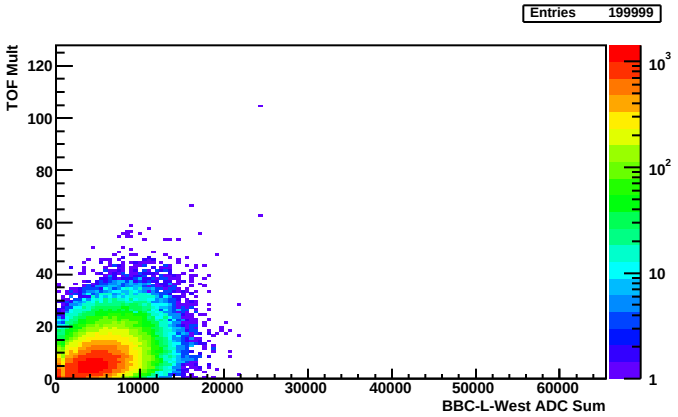

BBQ-VP003 (HI threshold)
Entries 3199984
ADC
QT Input Channel

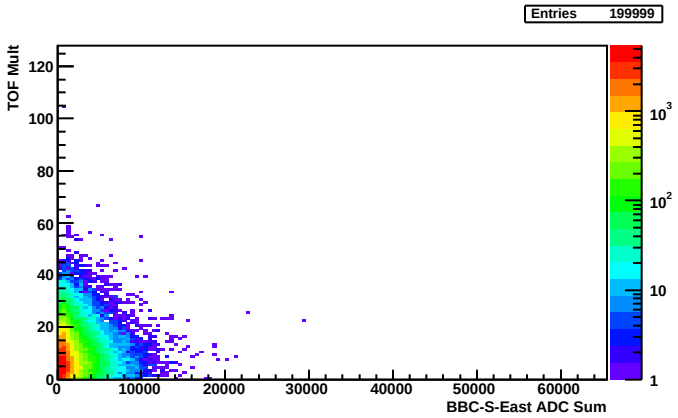

BBQ-VP003 (HI threshold)
Entries 3199984
TAC
QT Input Channel

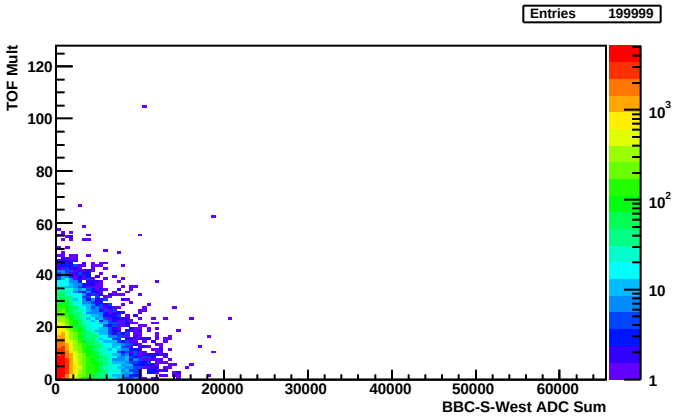

BBQ-VP004 (HI threshold)
Entries 3199984
ADC
QT Input Channel

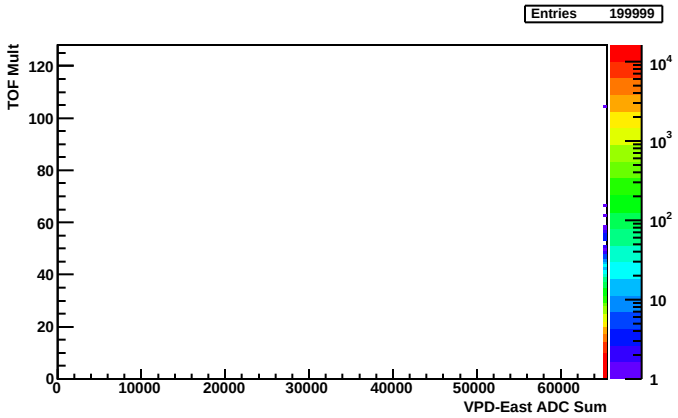

BBQ-VP004 (HI threshold)
Entries 3199984
TAC
QT Input Channel

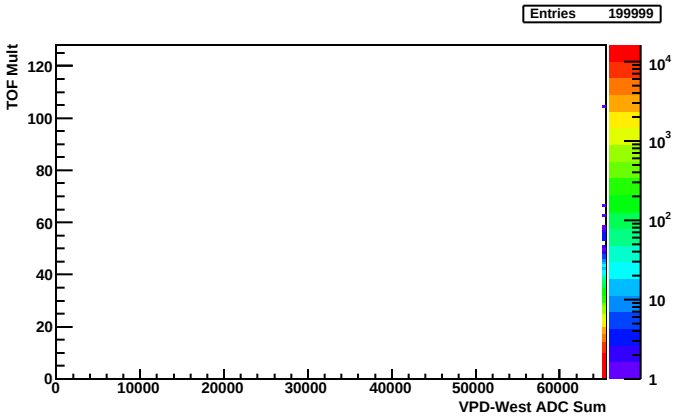

Entries 199999
TOF Mult
BBC-L-East ADC Sum

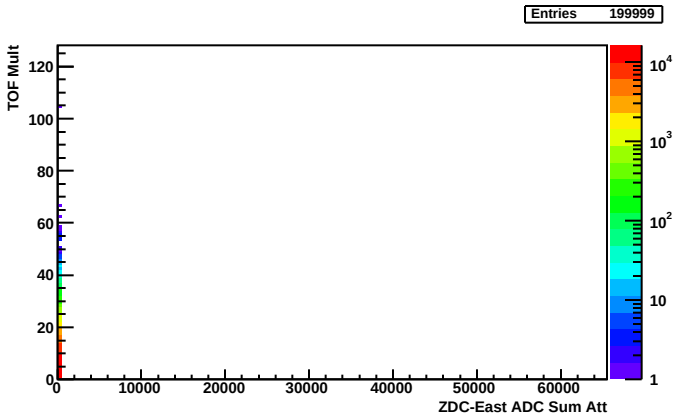

Entries 199999
TOF Mult
BBC-L-West ADC Sum

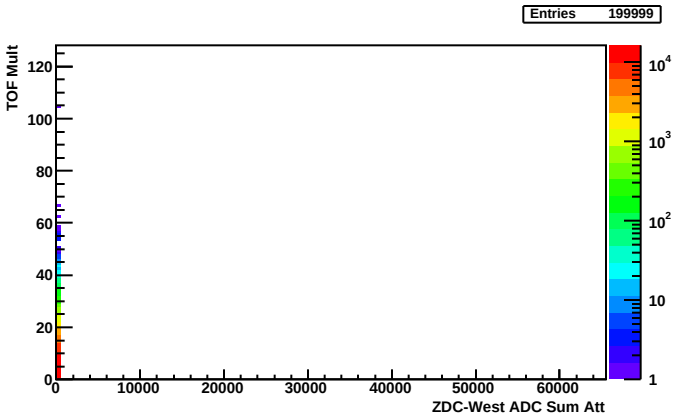

Entries 199999
TOF Mult
BBC-S-East ADC Sum

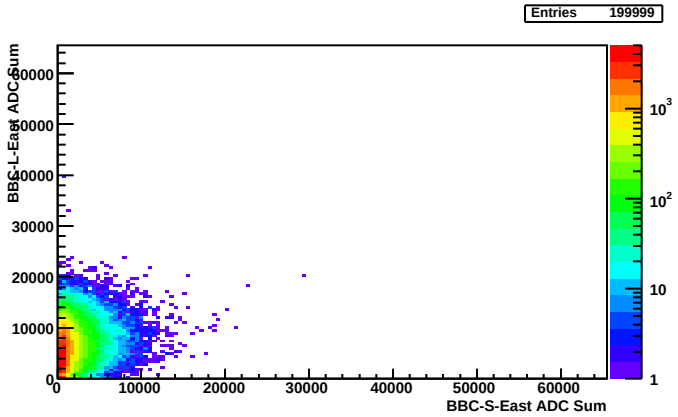

Entries 199999
TOF Mult
BBC-S-West ADC Sum

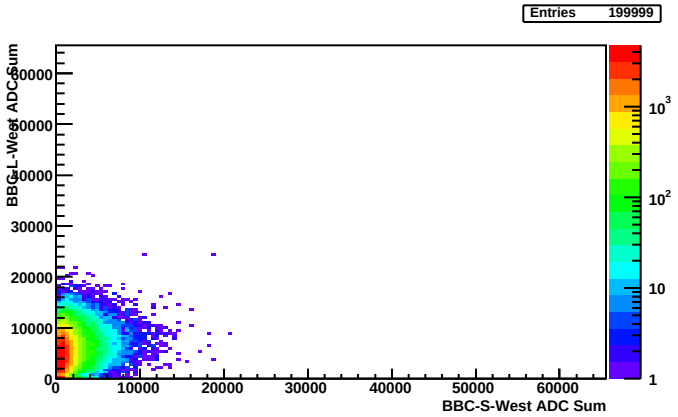

Entries 199999
TOF Mult
VPD-East ADC Sum

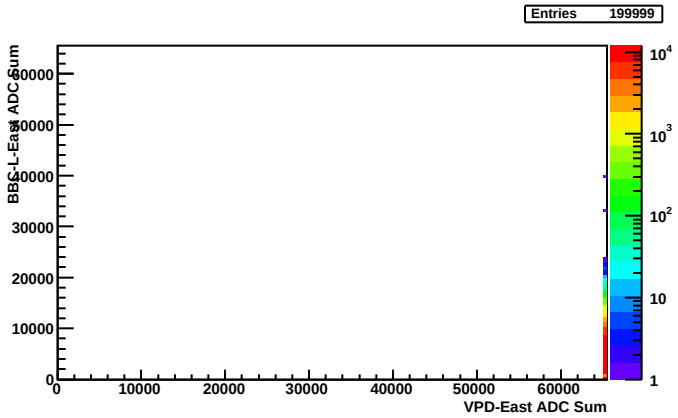

Entries 199999
TOF Mult
VPD-West ADC Sum

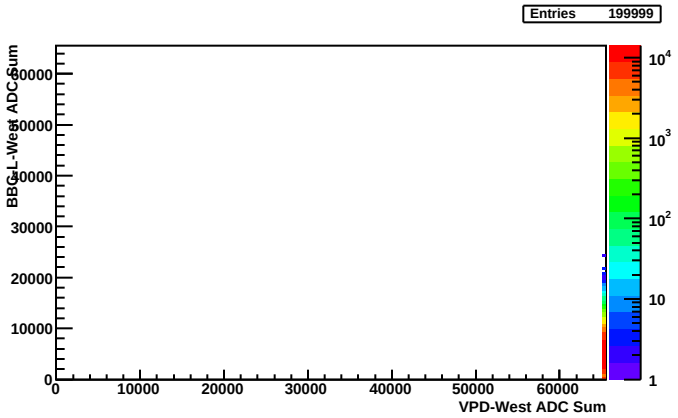

Entries 199999
TOF Mult
ZDC-East ADC Sum Att

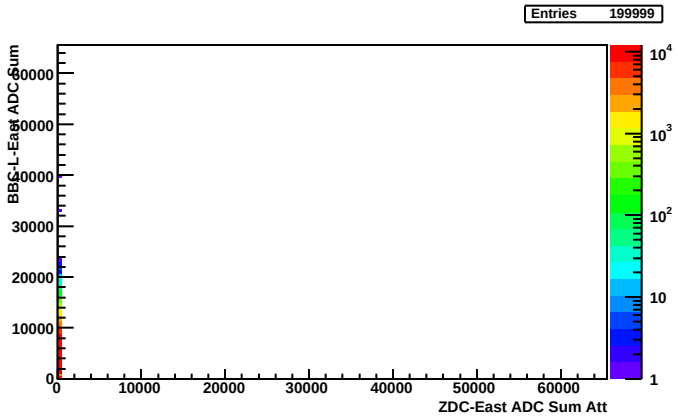

Entries 199999
TOF Mult
ZDC-West ADC Sum Att

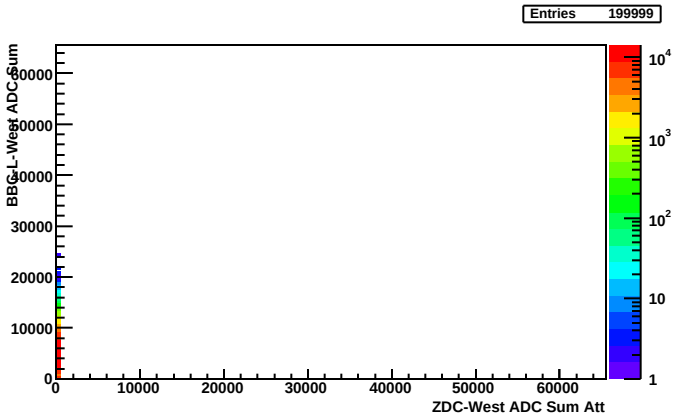

Entries 199999
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 199999
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 199999
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 199999
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 199999
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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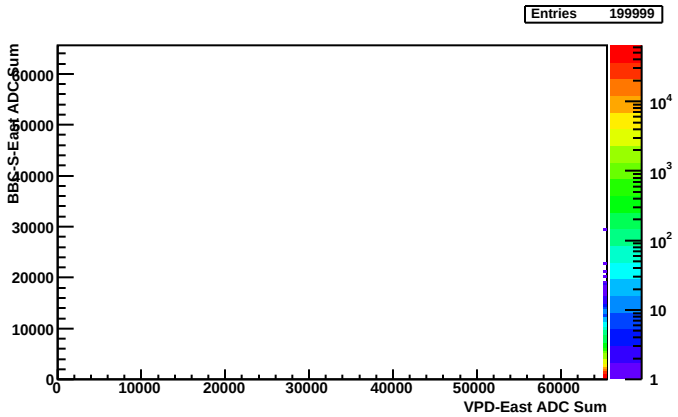
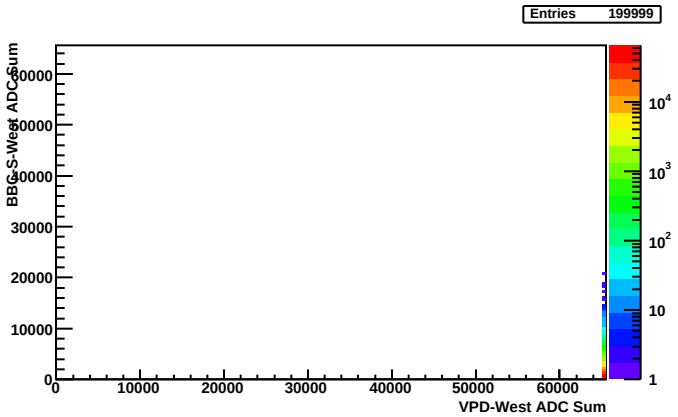
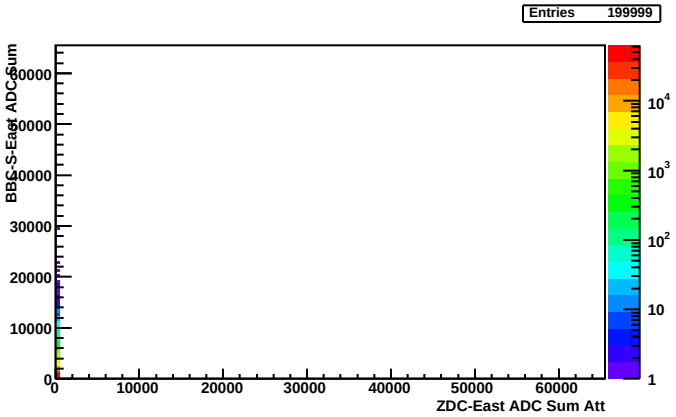
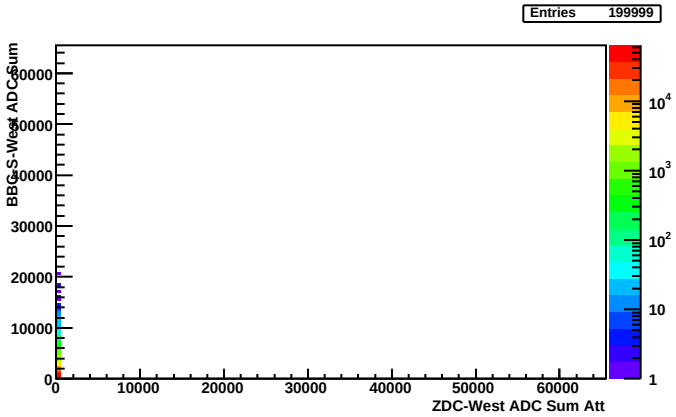
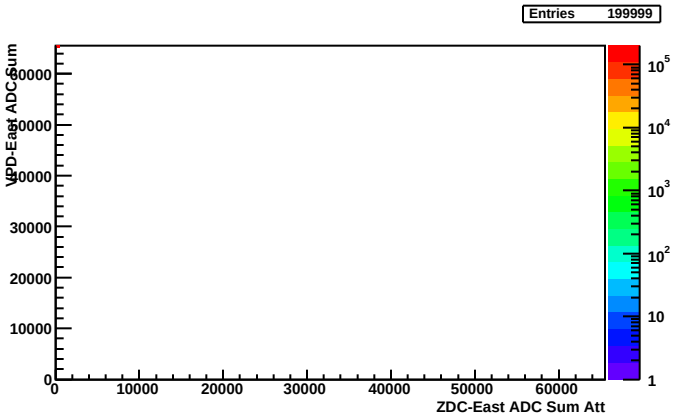
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

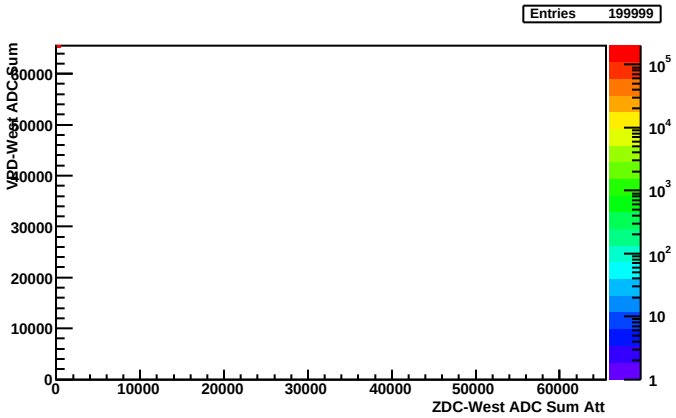

Entries 199999
BBC-S-East ADC Sum
VPD-East ADC Sum

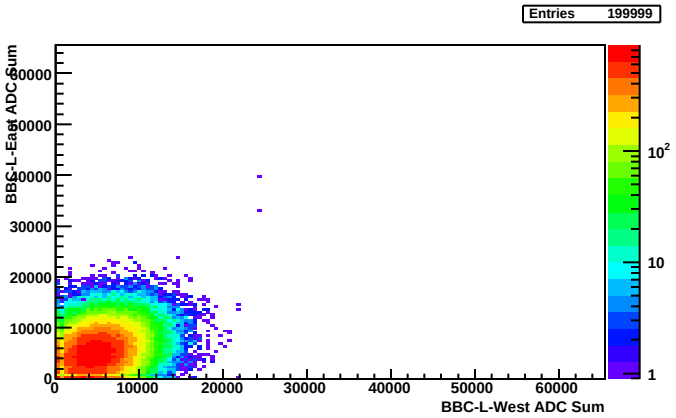

Entries 199999
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 199999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 199999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 199999
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 199999
VPD-West ADC Sum
ZDC-West ADC Sum Att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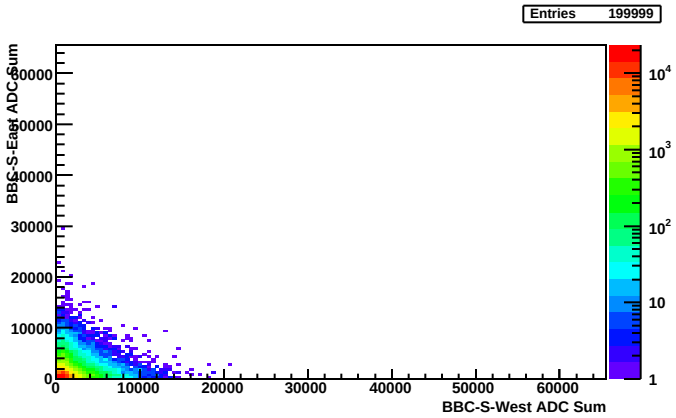
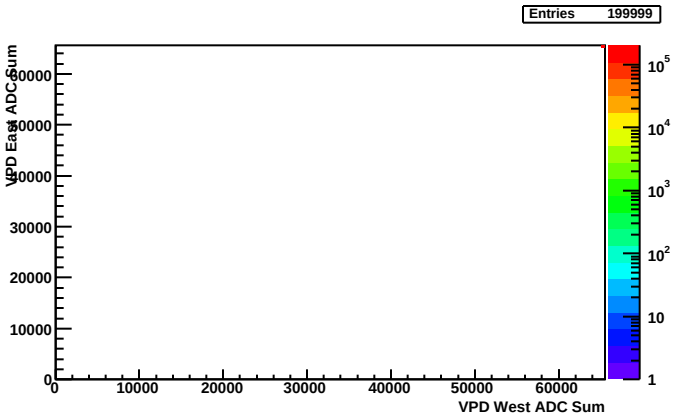
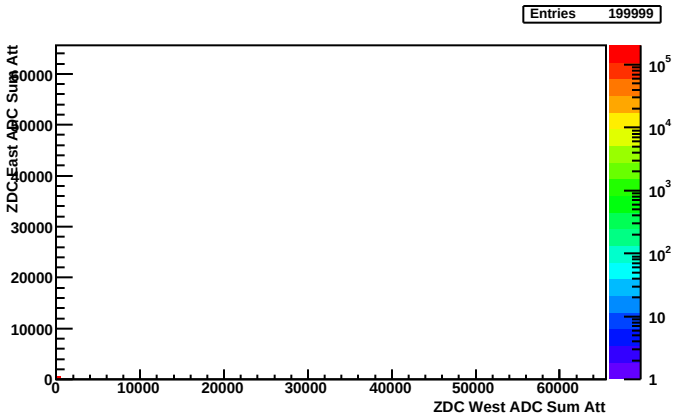
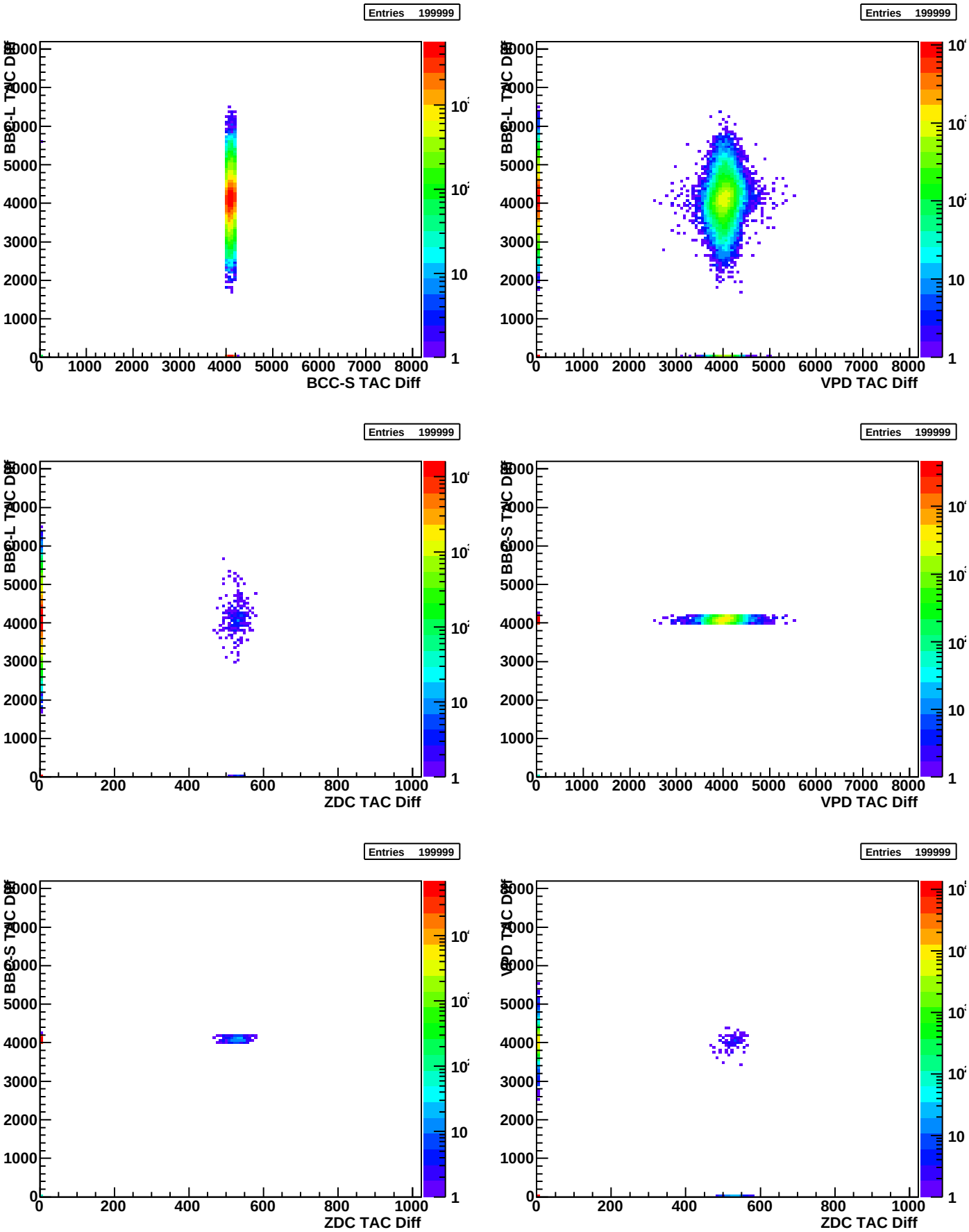
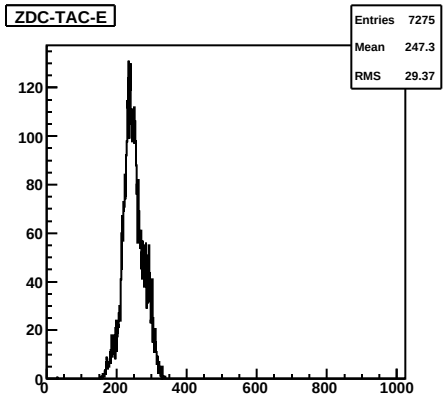
BBC-L-East ADC Sum
BBC-L-West ADC Sum

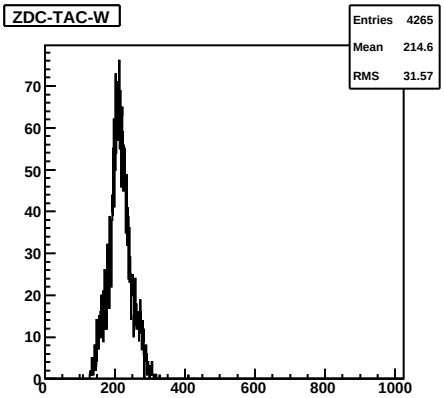

Entries 199999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

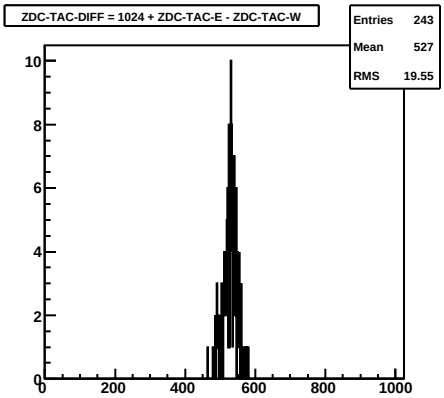

Entries 199999
VPD East ADC Sum
VPD West ADC Sum

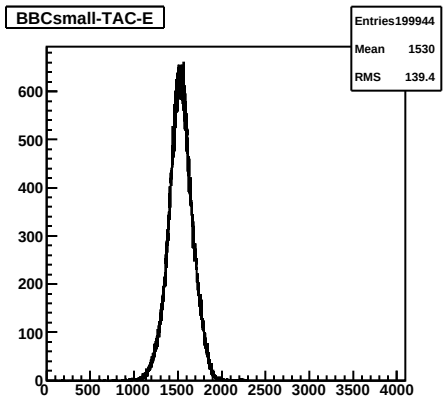

Entries 199999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

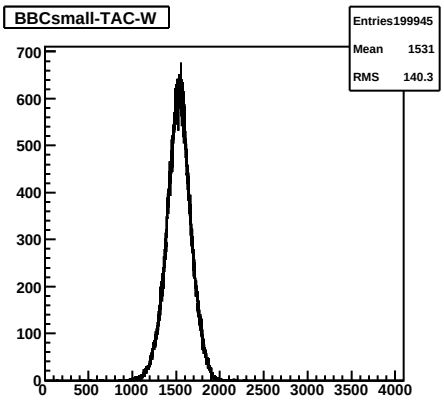

Entries 199999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 199999
BBC-L TAC Diff
VPD TAC Diff
Entries 199999
BBC-L TAC Diff
ZDC TAC Diff
Entries 199999
BBC-S TAC Diff
VPD TAC Diff
Entries 199999
BBC-S TAC Diff
ZDC TAC Diff
Entries 199999
VPD TAC Diff
ZDC TAC Diff

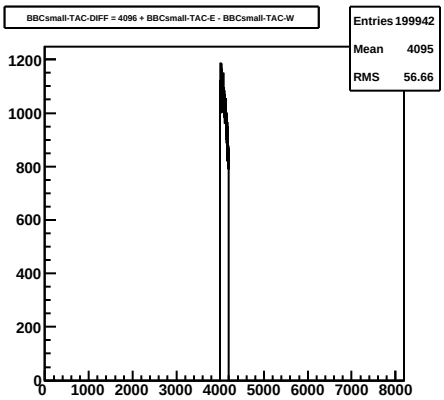

ZDC-TAC-E
Entries 7275
Mean 247.3
RMS 29.37

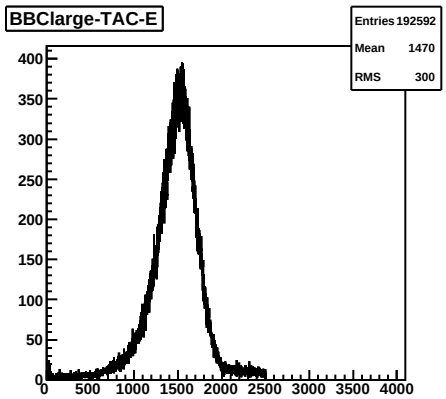

ZDC-TAC-W
Entries 4265
Mean 214.6
RMS 31.57

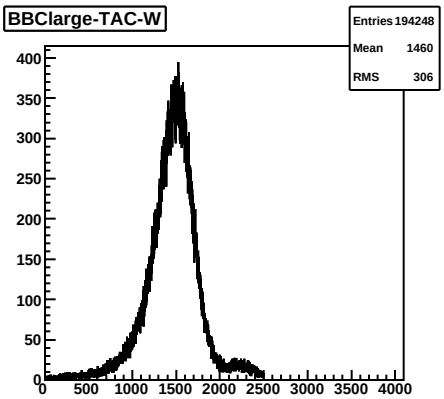

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 243
Mean 527
RMS 19.55

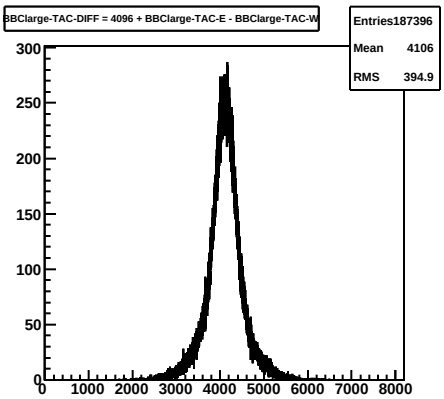

BBCsmall-TAC-E
Entries 199944
Mean 1530
RMS 139.4

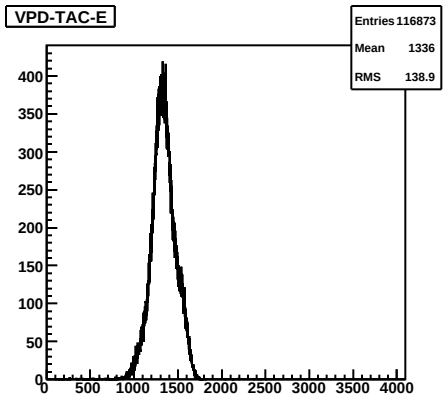

BBCsmall-TAC-W
Entries 199945
Mean 1531
RMS 140.3

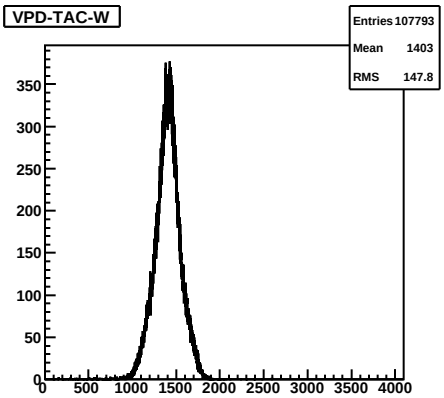

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 199942
Mean 4095
RMS 56.66

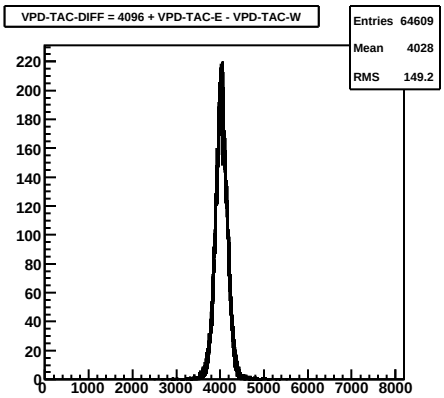

BBClarge-TAC-E
Entries 192592
Mean 1470
RMS 300

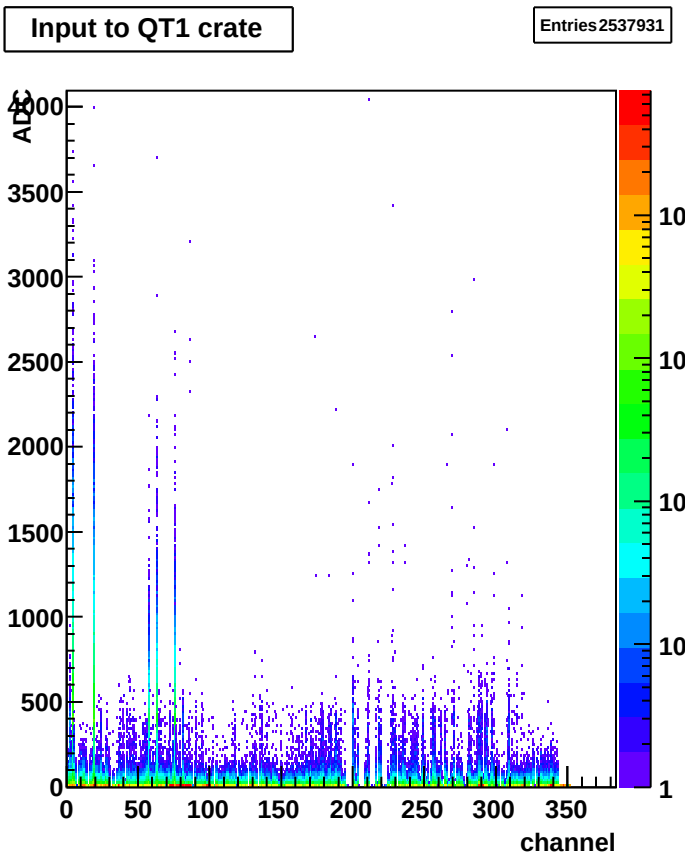

BBClarge-TAC-W
Entries 194248
Mean 1460
RMS 306

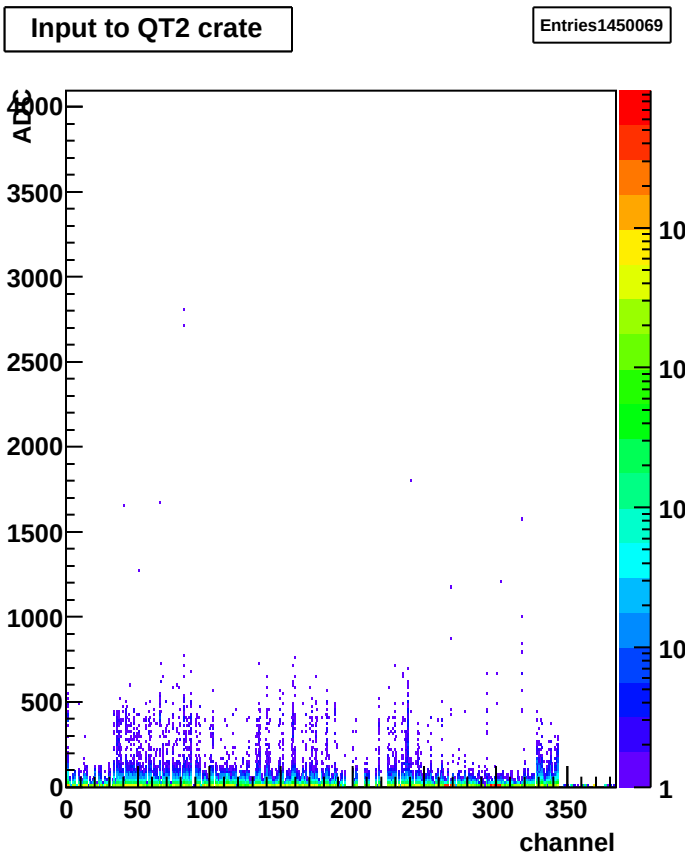

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 187396
Mean 4106
RMS 394.9

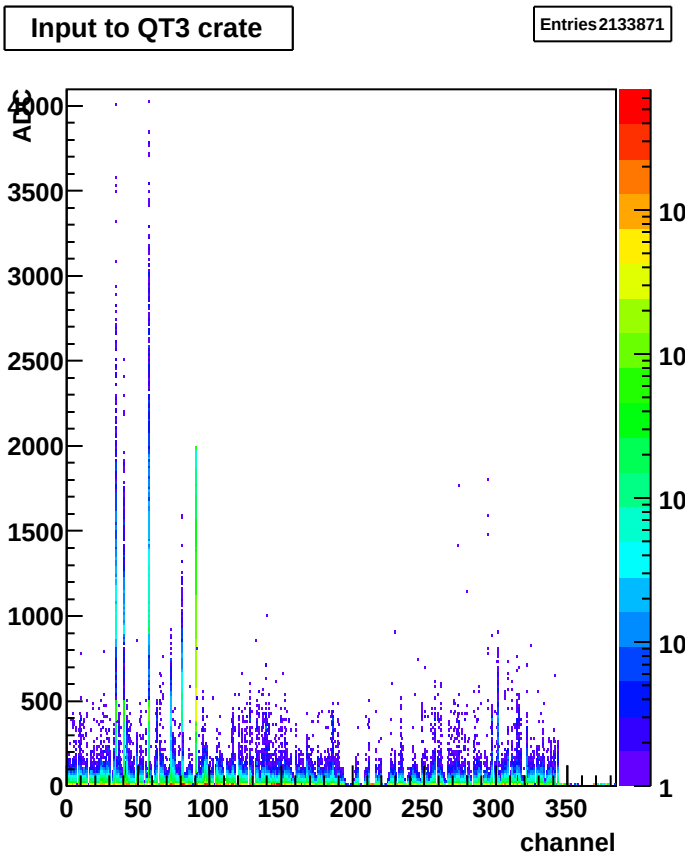

VPD-TAC-E
Entries 116873
Mean 1336
RMS 138.9

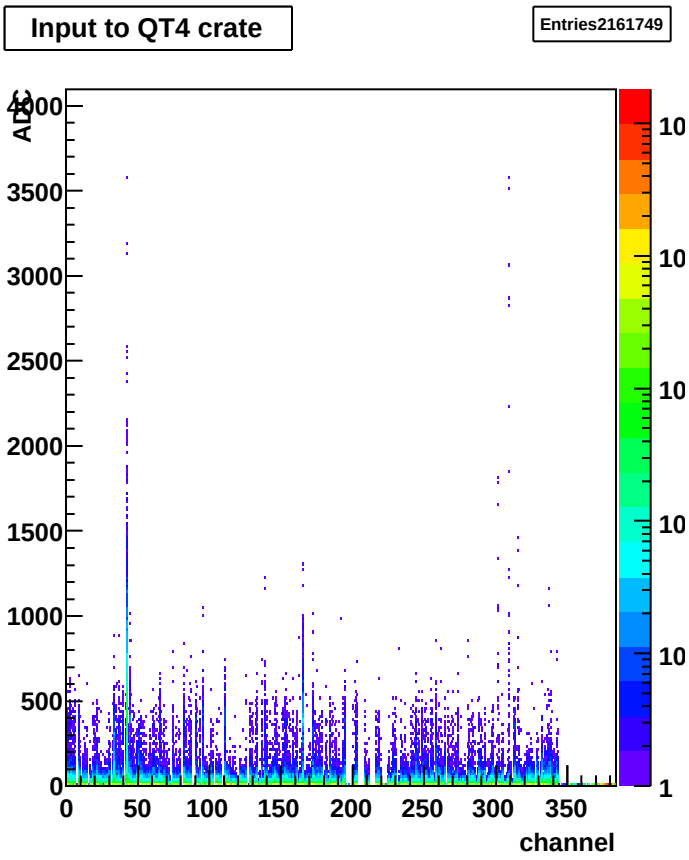

VPD-TAC-W
Entries 107793
Mean 1403
RMS 147.8

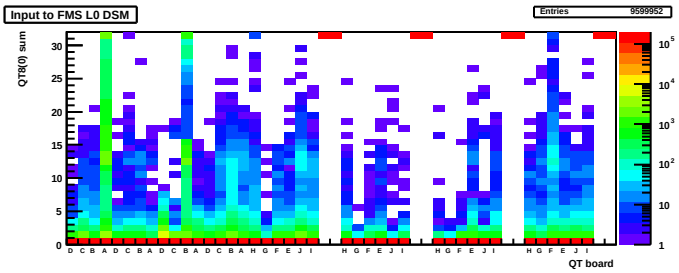

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 64609
Mean 4028
RMS 149.2

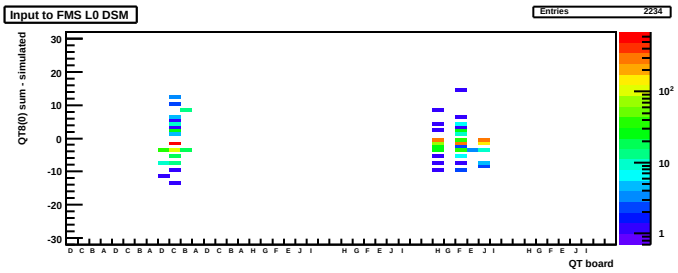

Input to QT1 crate
Entries2537931
ADC
channel

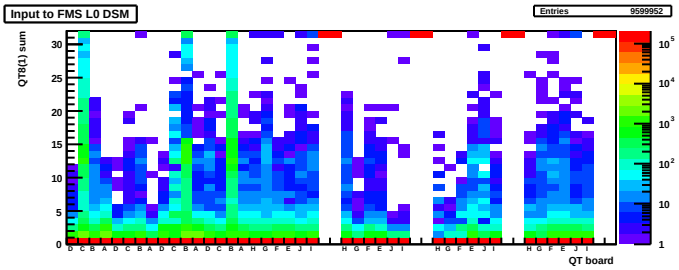

Input to QT2 crate
Entries1450069
ADC
channel

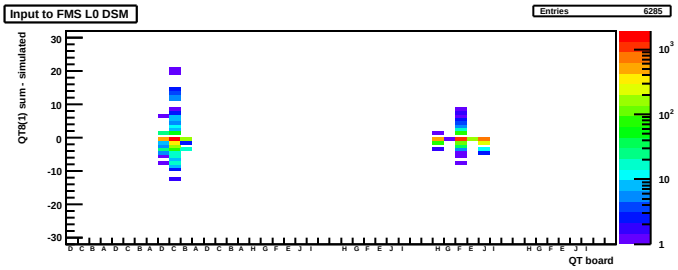

Input to QT3 crate
Entries2133871
ADC
channel

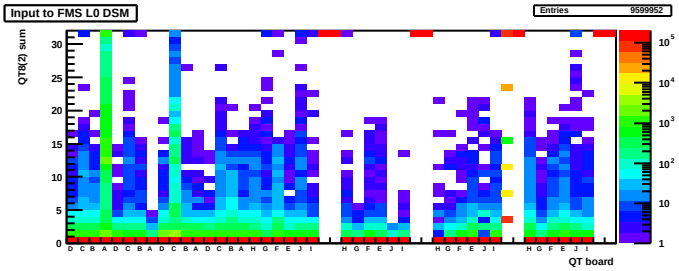

Input to QT4 crate
Entries2161749
ADC
channel

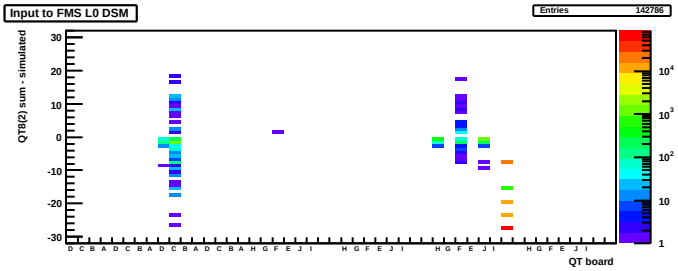

Input to FMS L0 DSM
Entries 9599952
QT8(0) sum
QT board

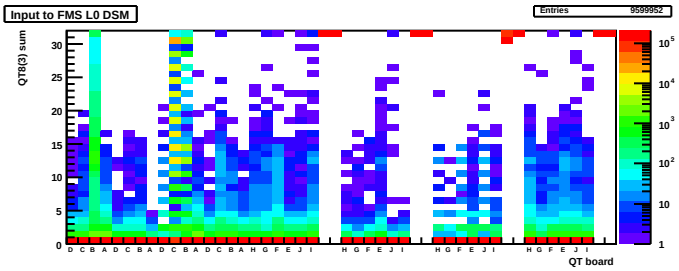

Input to FMS L0 DSM
Entries 2234
QT8(0) sum - simulated
QT board

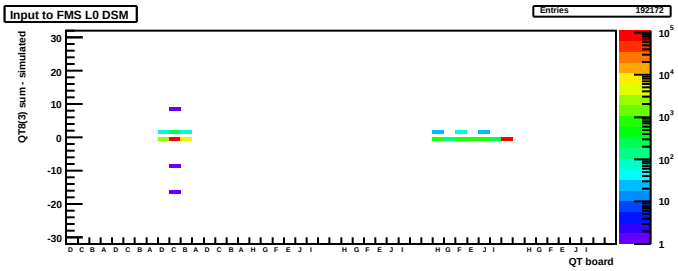

Input to FMS L0 DSM
Entries 9599952
QT8(1) sum
QT board

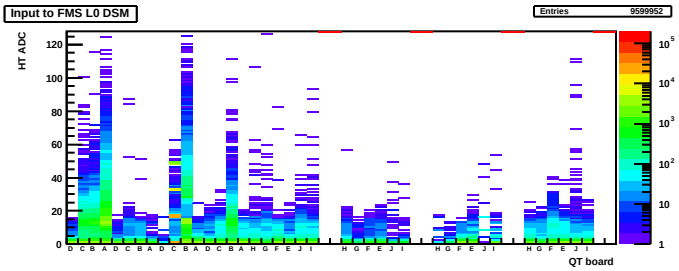

Input to FMS L0 DSM
Entries 6285
QT8(1) sum - simulated
QT board

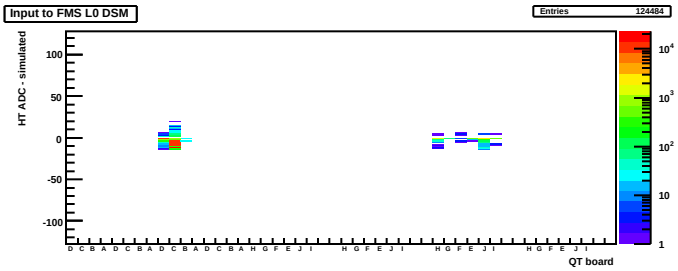

Input to FMS L0 DSM
Entries 9599952
QT8(2) sum
QT board

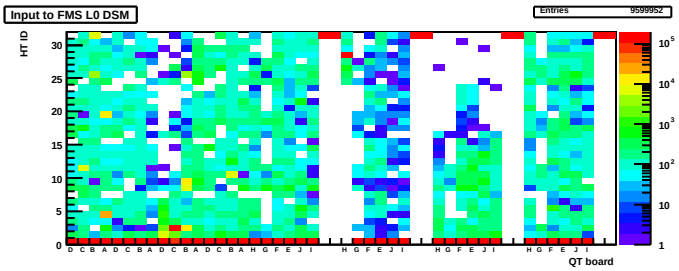

Input to FMS L0 DSM
Entries 142786
QT8(2) sum - simulated
QT board

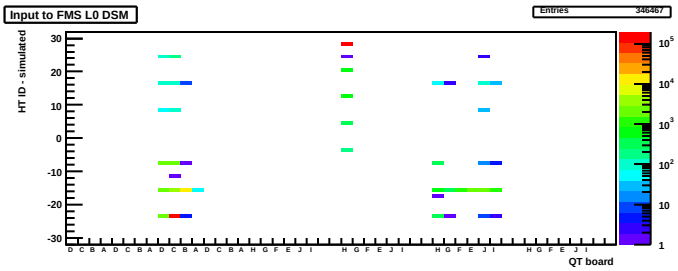

Input to FMS L0 DSM
Entries 9599952
QT8(3) sum
QT board

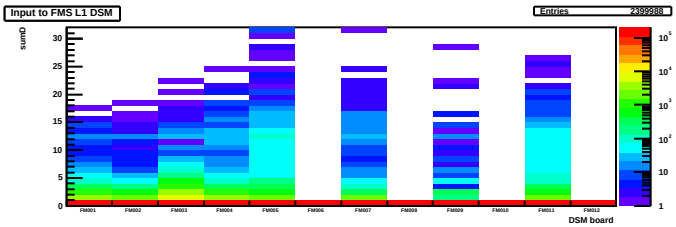

Input to FMS L0 DSM
Entries 192172
QT8(3) sum - simulated
QT board

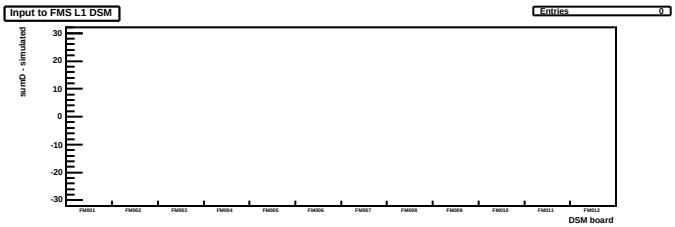

Input to FMS L0 DSM
Entries 9599952
HT ADC
QT board

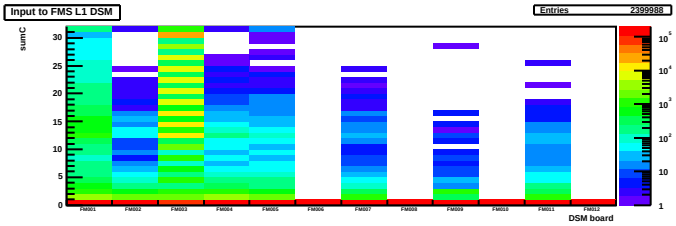

Input to FMS L0 DSM
Entries 124484
HT ADC - simulated
QT board

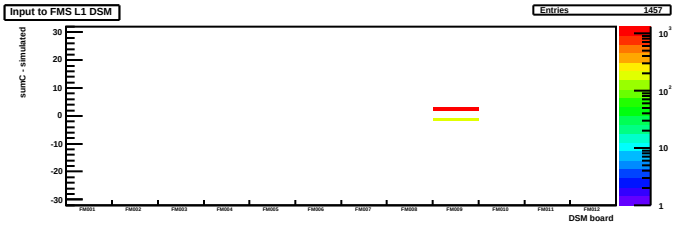

Input to FMS L0 DSM
Entries 9599952
HT ID
QT board

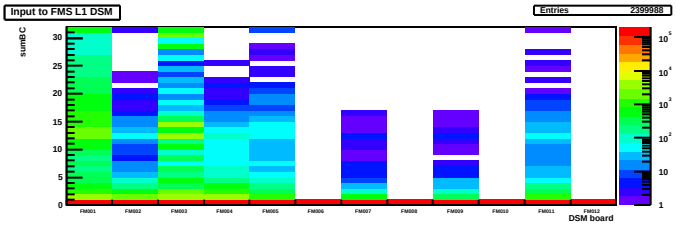

Input to FMS L0 DSM
Entries 346467
HT ID - simulated
QT board

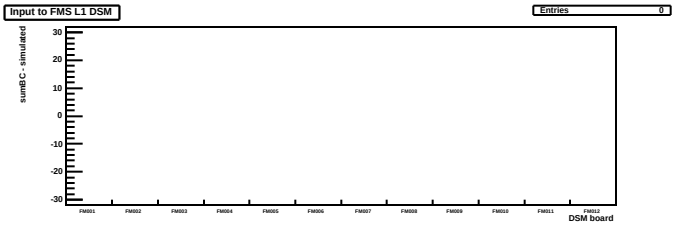

Input to FMS L1 DSM
Entries 2399988
sumD
DSM board

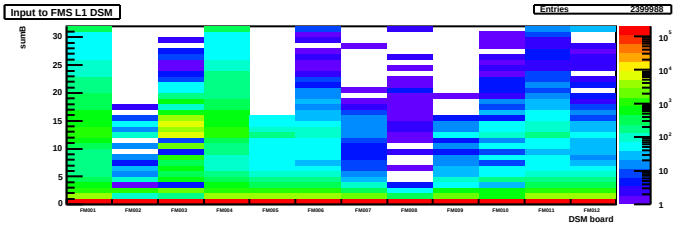

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

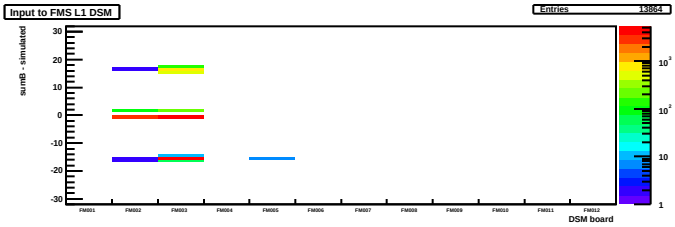

Input to FMS L1 DSM
Entries 2399988
sumC
DSM board

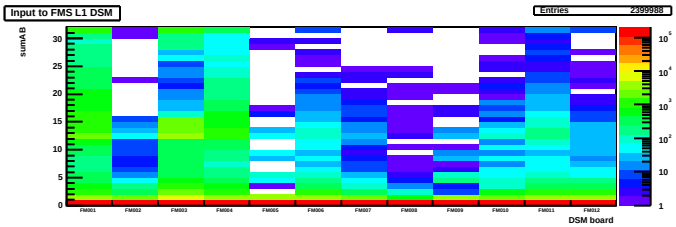

Input to FMS L1 DSM
Entries 1457
sumC - simulated
DSM board

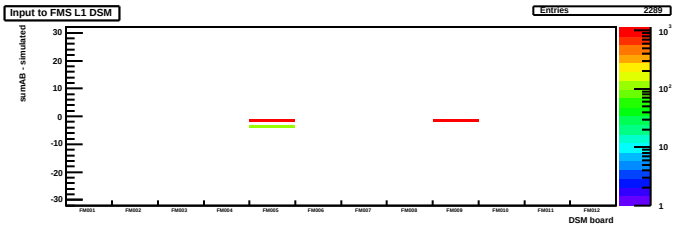

Input to FMS L1 DSM
Entries 2399988
sumBC
DSM board

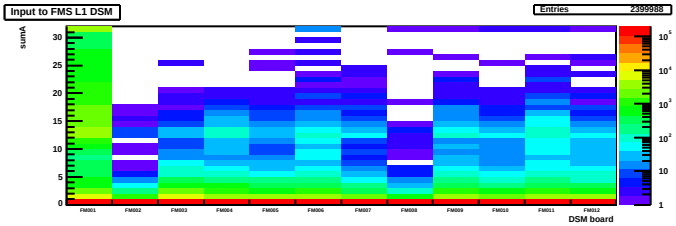

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

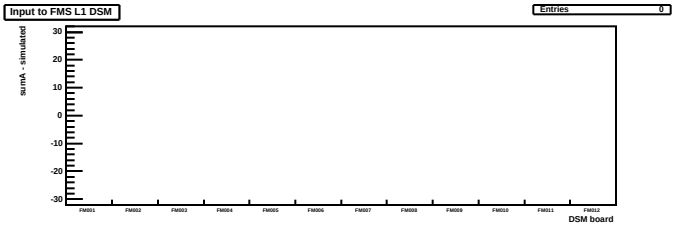

Input to FMS L1 DSM
Entries 2399988
sumB
DSM board

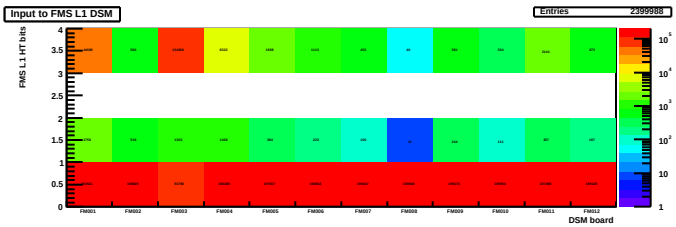

Input to FMS L1 DSM
Entries 13864
sumB - simulated
DSM board

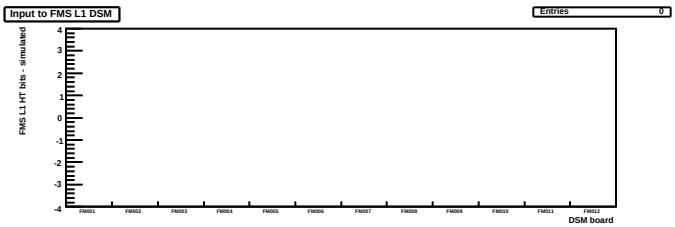

Input to FMS L1 DSM
Entries 2399988
sumAB
DSM board

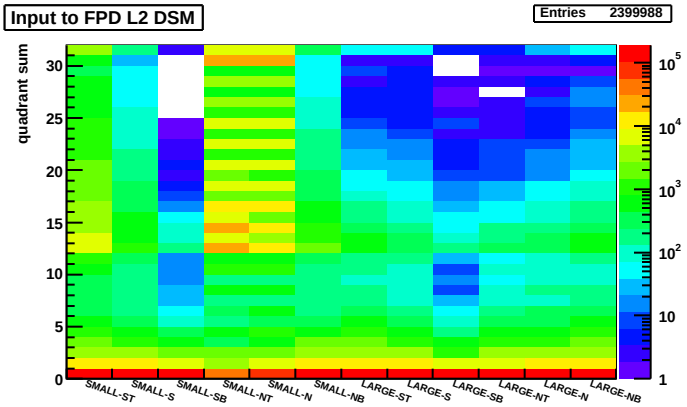

Input to FMS L1 DSM
Entries 2289
sumAB - simulated
DSM board

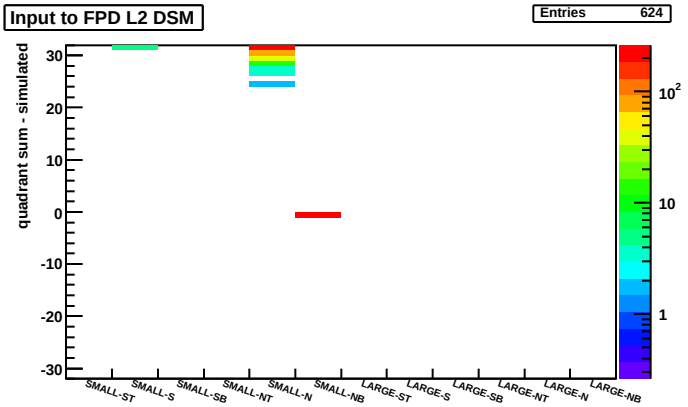

Input to FMS L1 DSM
Entries 2399988
sumA
DSM board

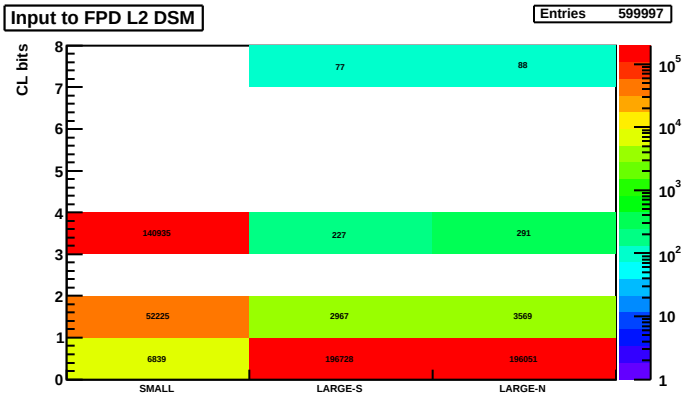

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

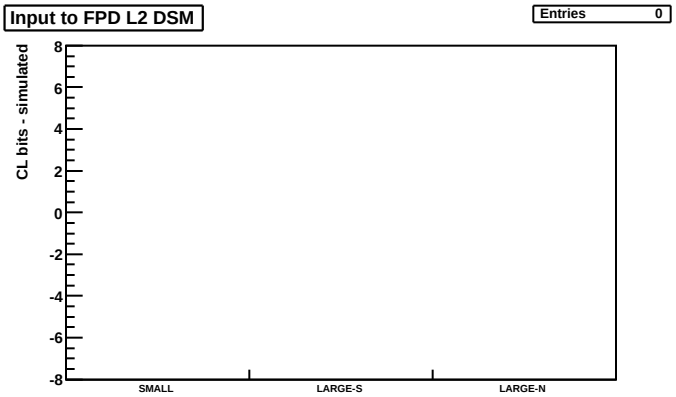

Input to FMS L1 DSM
Entries 2399988
FMS L1 HT bits
DSM board

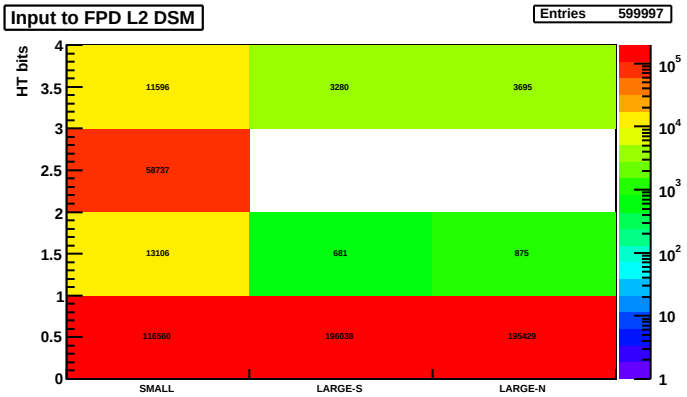

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

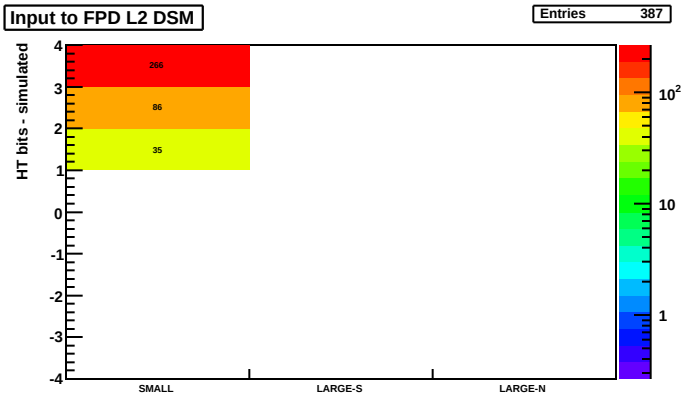

Input to FPD L2 DSM
Entries 2399988
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

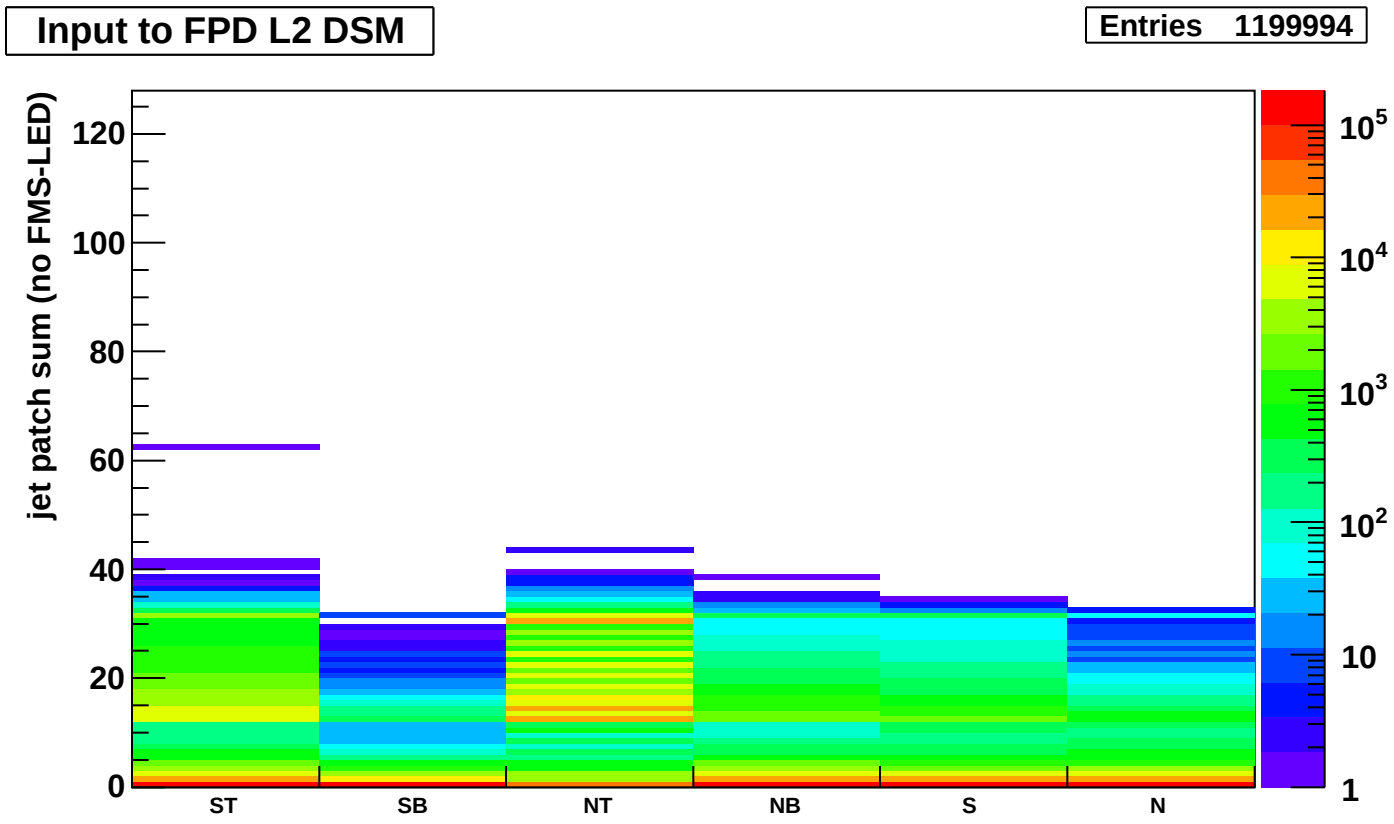

Input to FPD L2 DSM
Entries 624
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

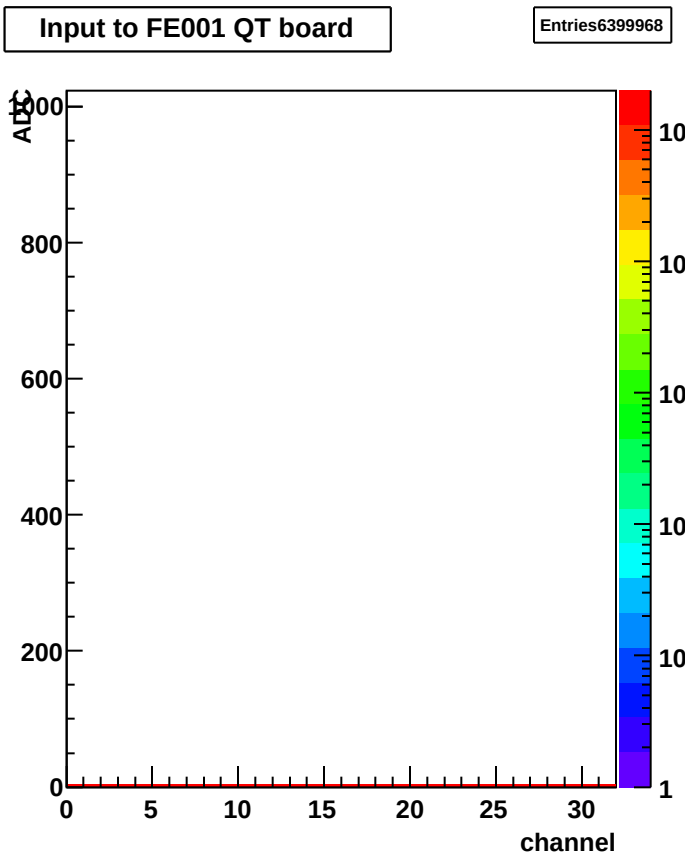

Input to FPD L2 DSM
Entries 599997
CL bits
77
88
140935
227
291
52225
2967
3569
6839
196728
196051
SMALL
LARGE-S
LARGE-N

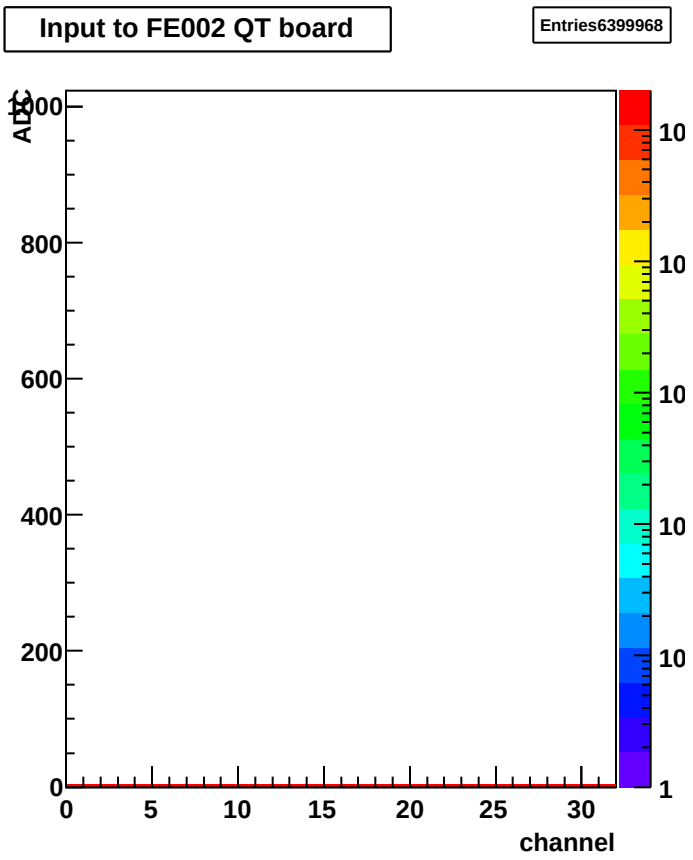

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

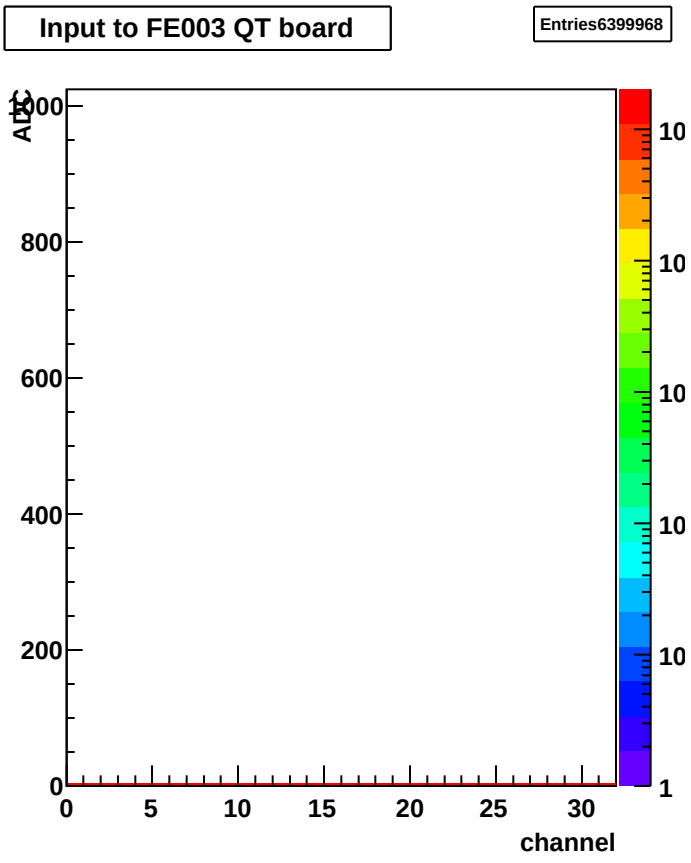

Input to FPD L2 DSM
Entries 599997
HT bits
11596
3280
3695
58737
13106
681
875
116560
196038
195429
SMALL
LARGE-S
LARGE-N

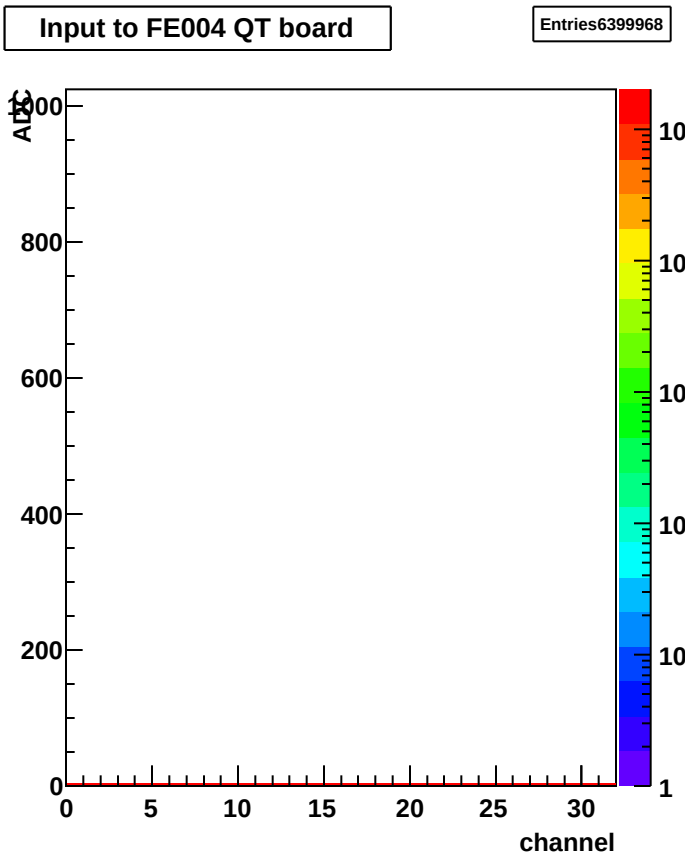

Input to FPD L2 DSM
Entries 387
HT bits - simulated
266
86
35
SMALL
LARGE-S
LARGE-N

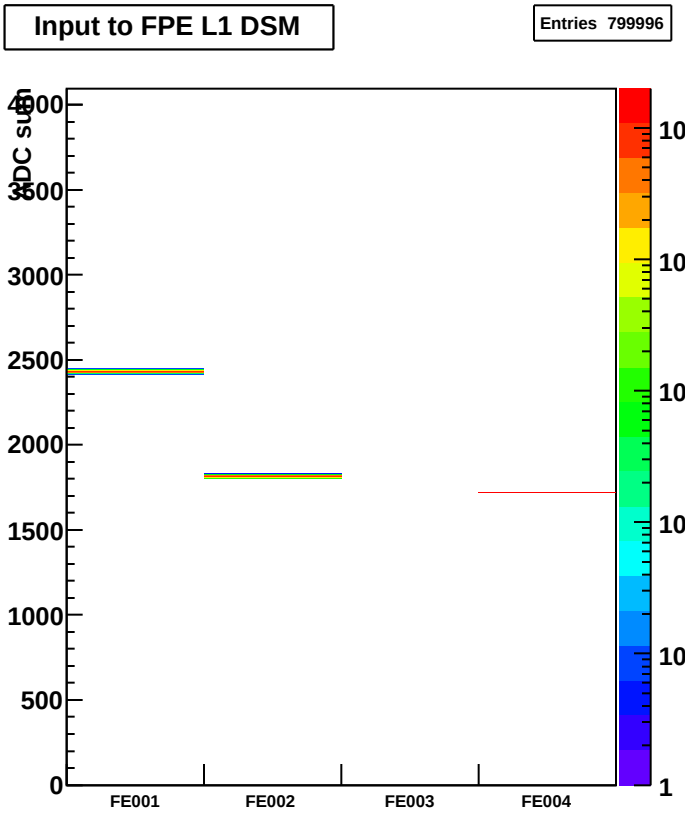

Input to FPD L2 DSM
Entries 1199994
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

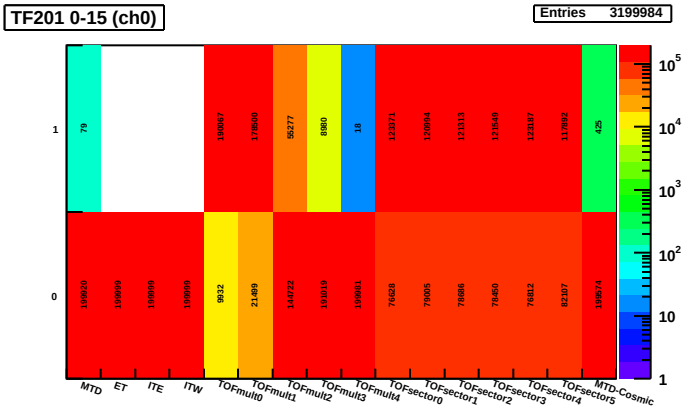

Input to FE001 QT board
Entries6399968
ADC
channel

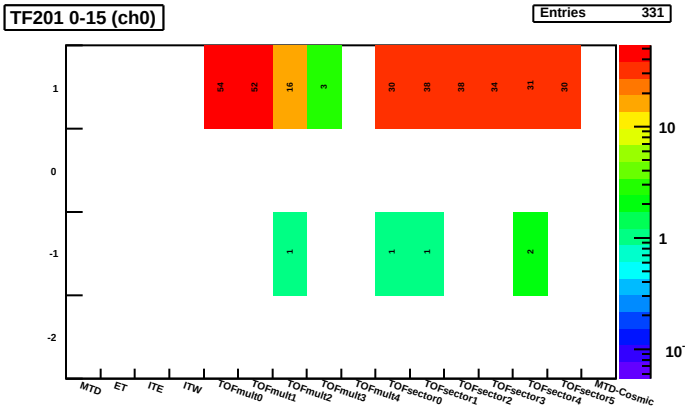

Input to FE002 QT board
Entries6399968
ADC
channel

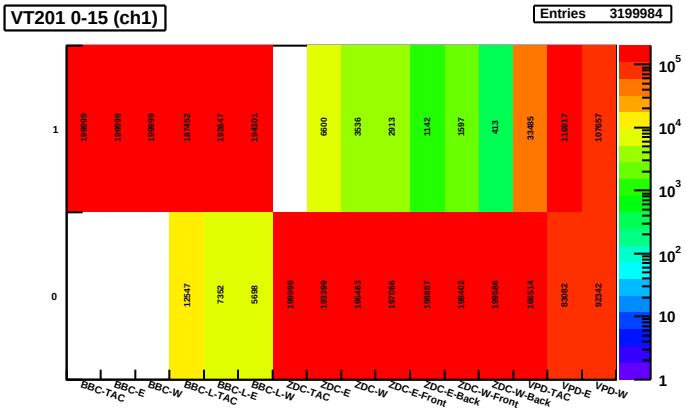

Input to FE003 QT board
Entries6399968
ADC
channel

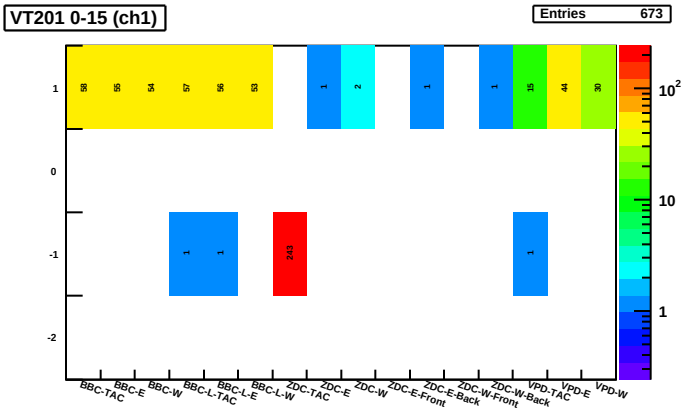

Input to FE004 QT board
Entries6399968
ADC
channel

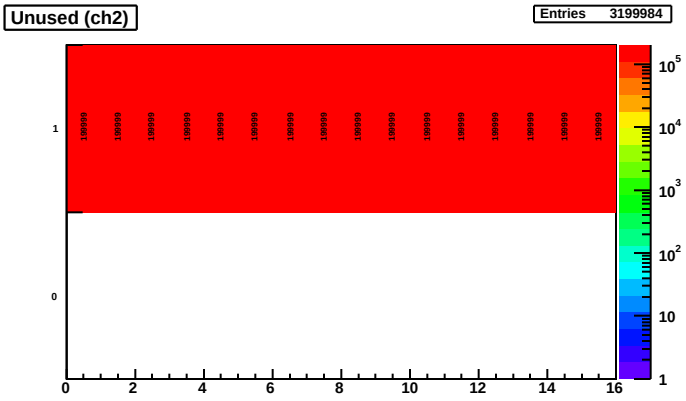

Input to FPE L1 DSM
Entries 799996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

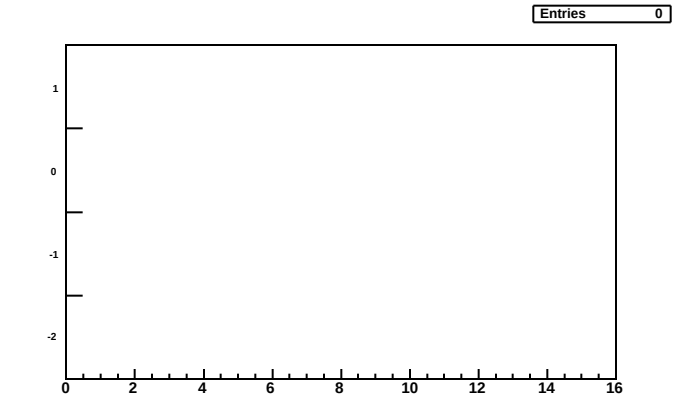

TF201 0-15 (ch0)
Entries 3199984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

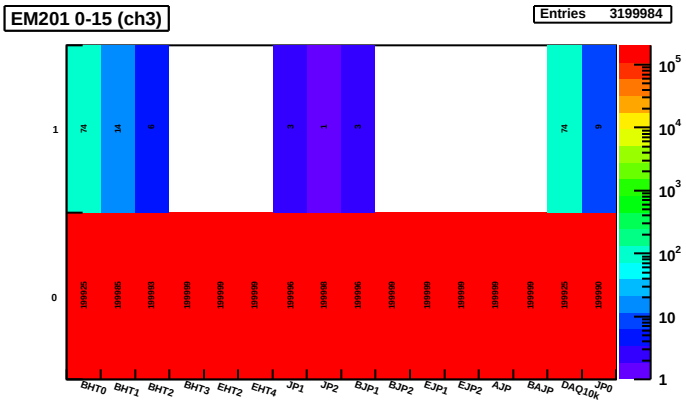

TF201 0-15 (ch0)
Entries 331
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

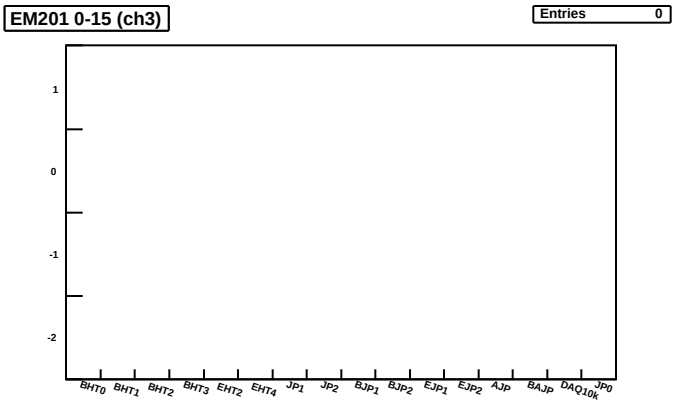

VT201 0-15 (ch1)
Entries 3199984
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 673
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 3199984


Entries 0


EM201 0-15 (ch3)
Entries 3199984
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0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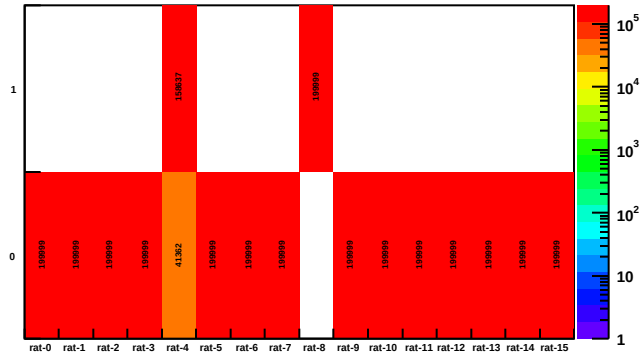

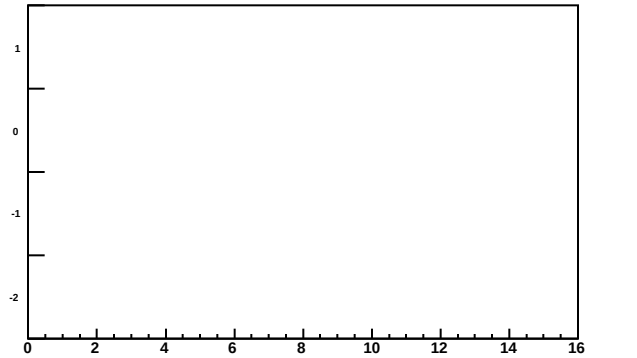

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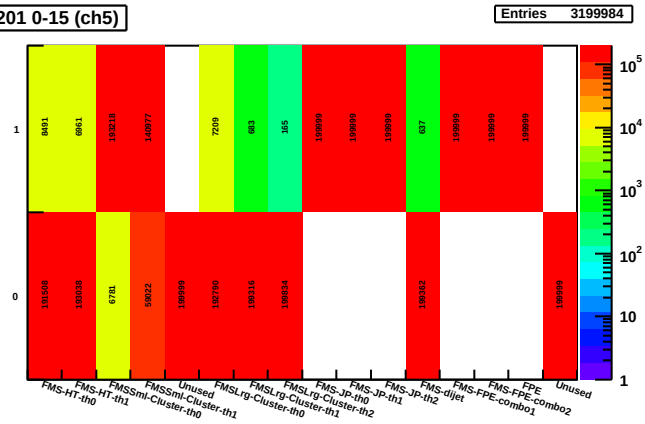

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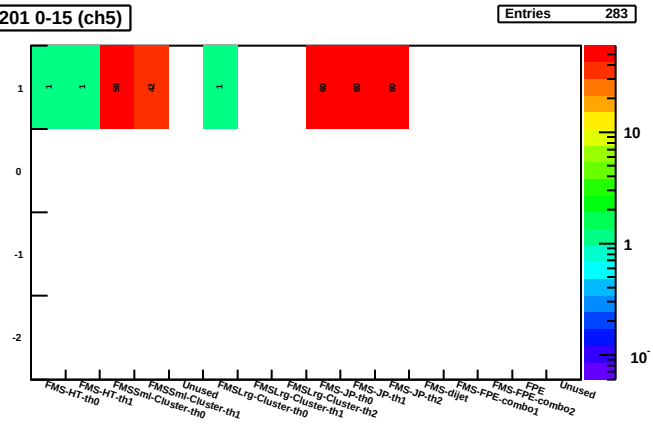

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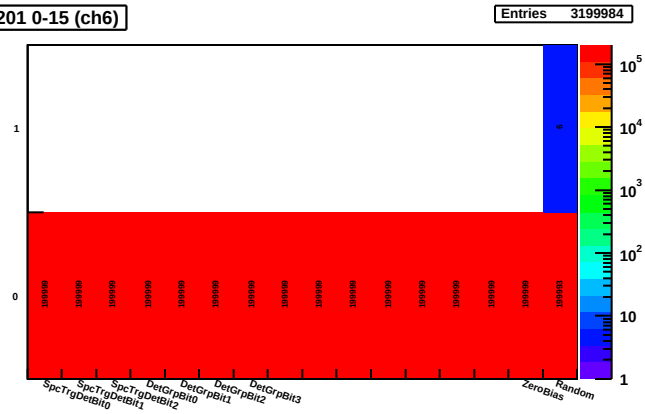

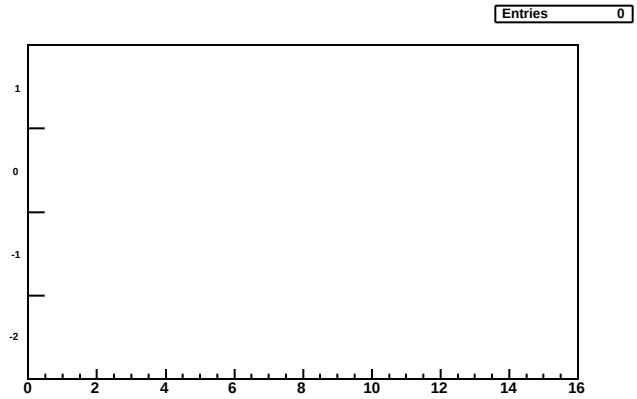
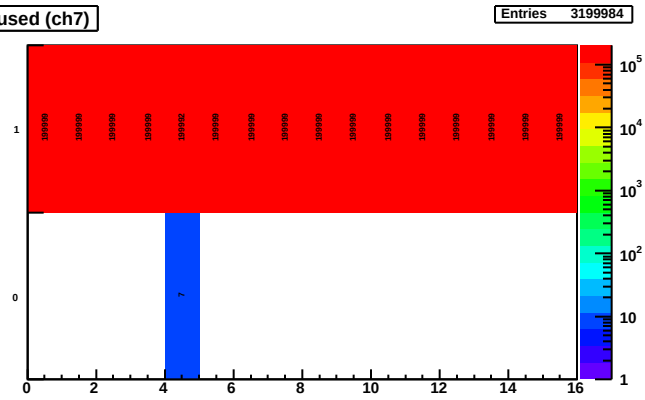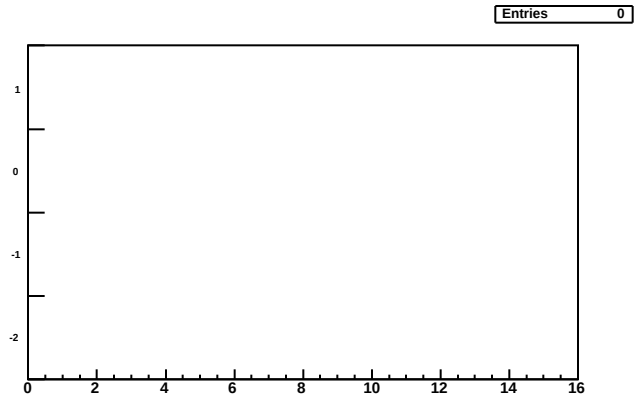
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