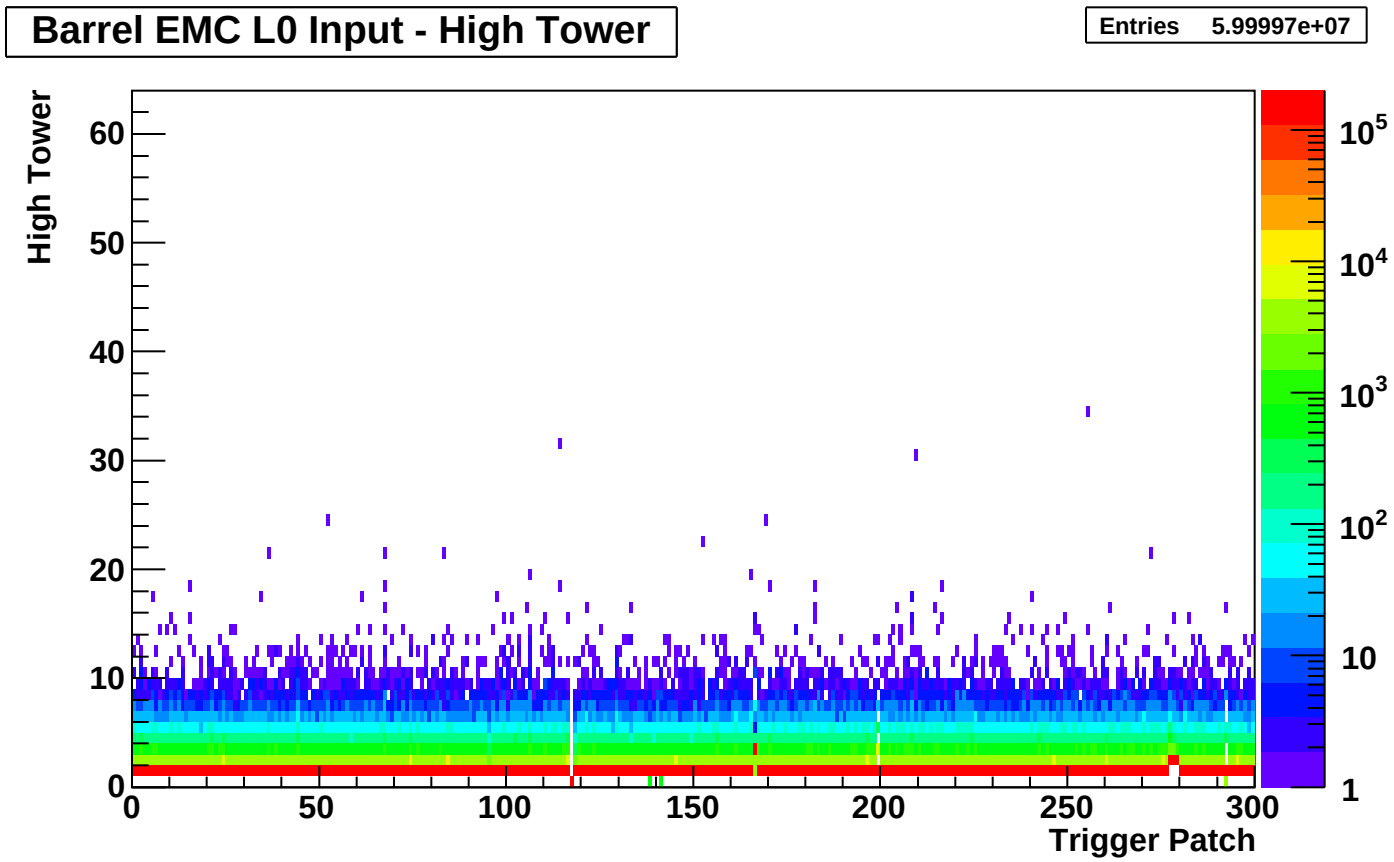
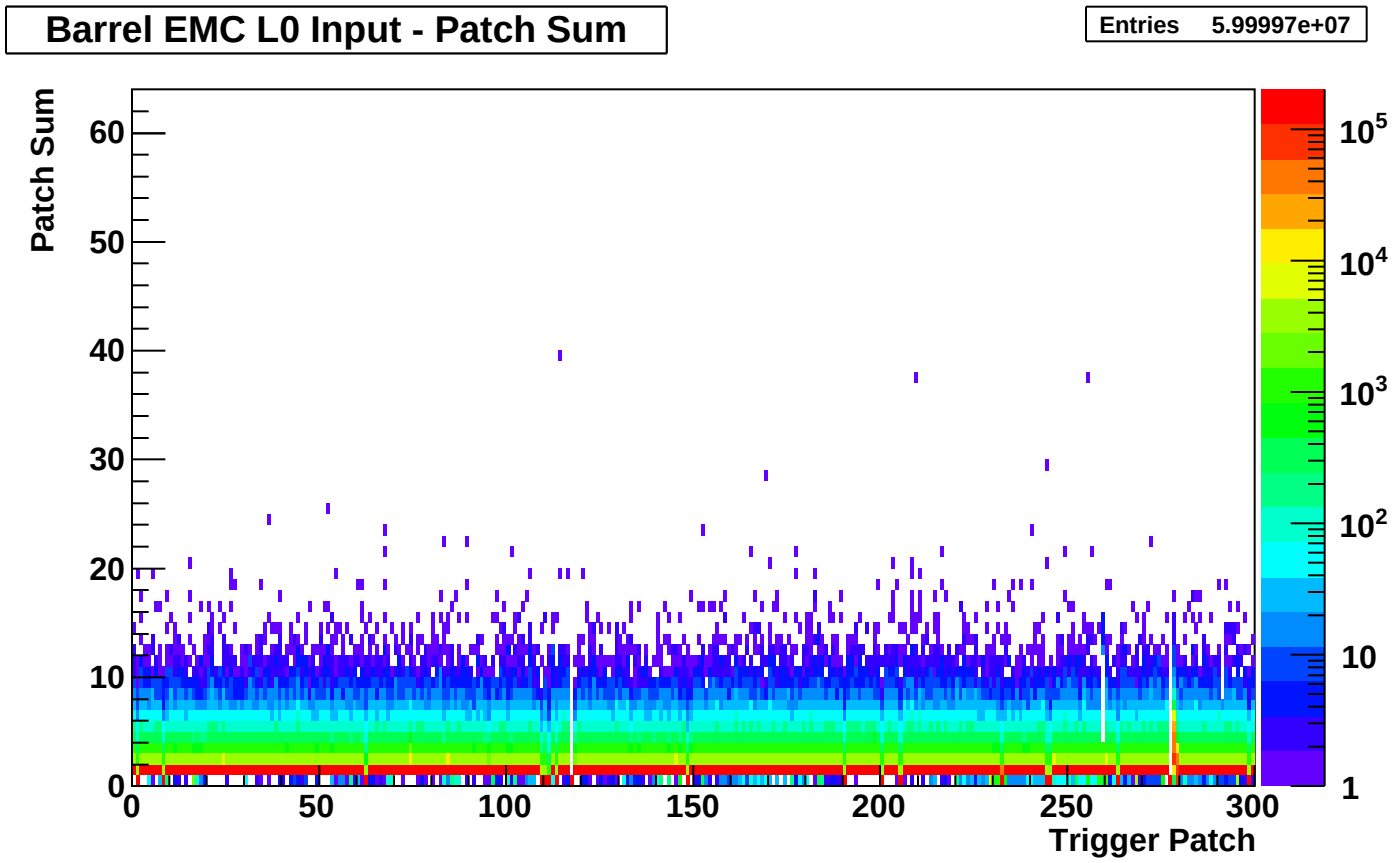
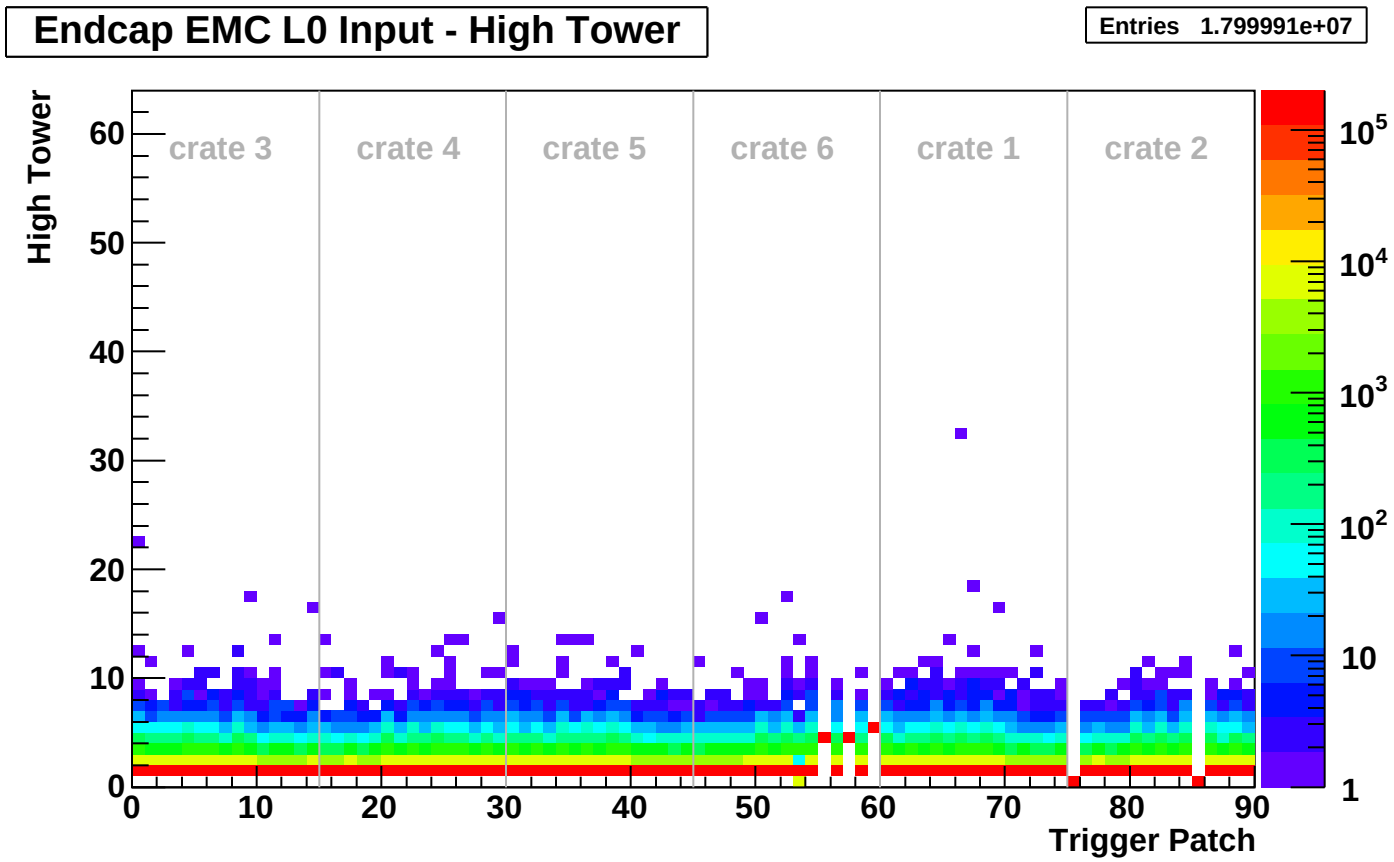
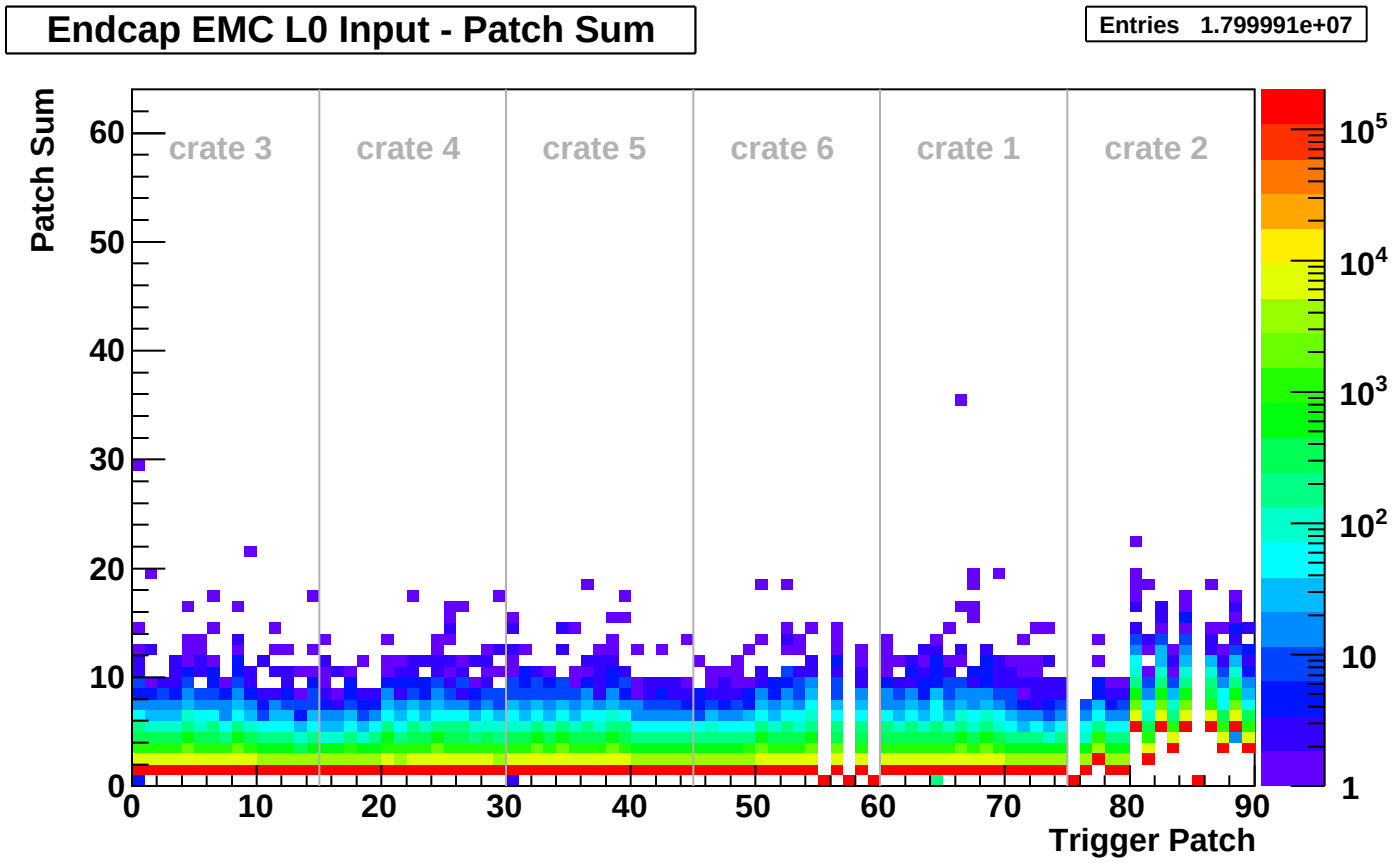
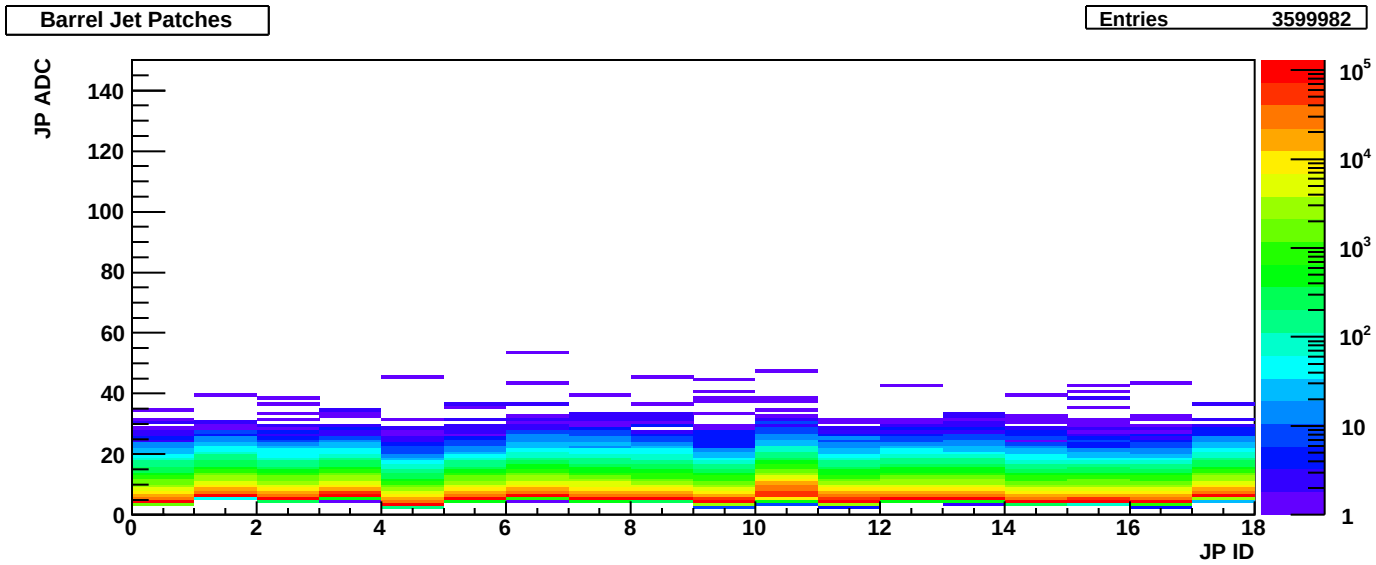
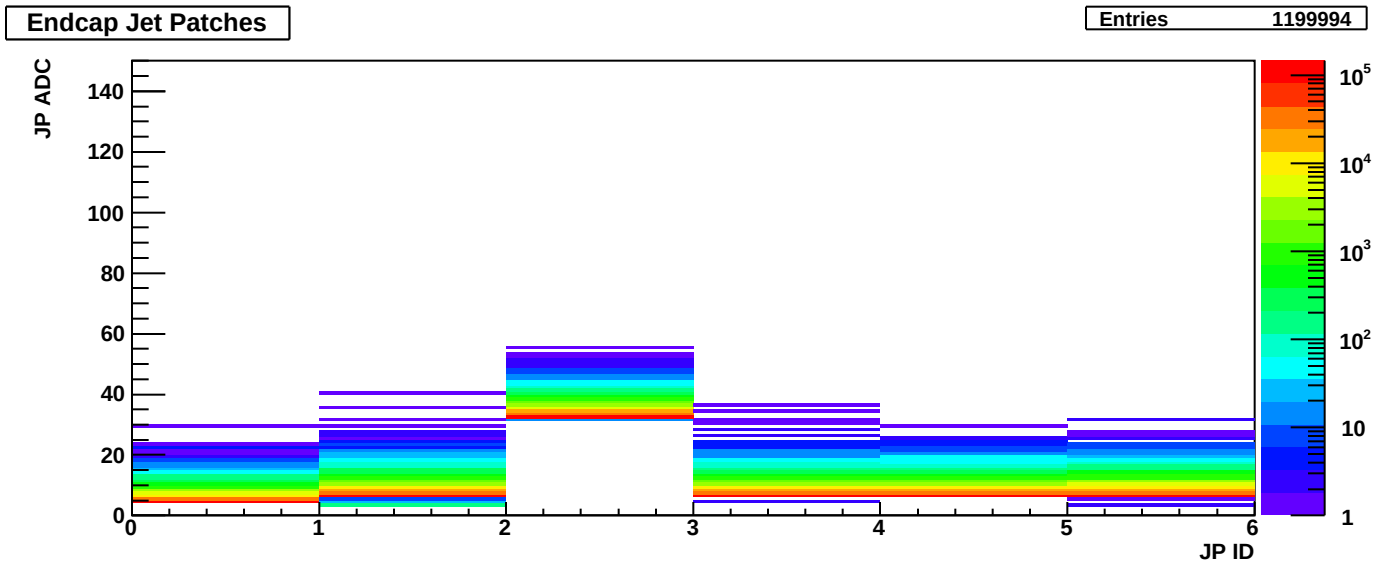

Barrel EMC L0 Input - High Tower
Entries 5.99997e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

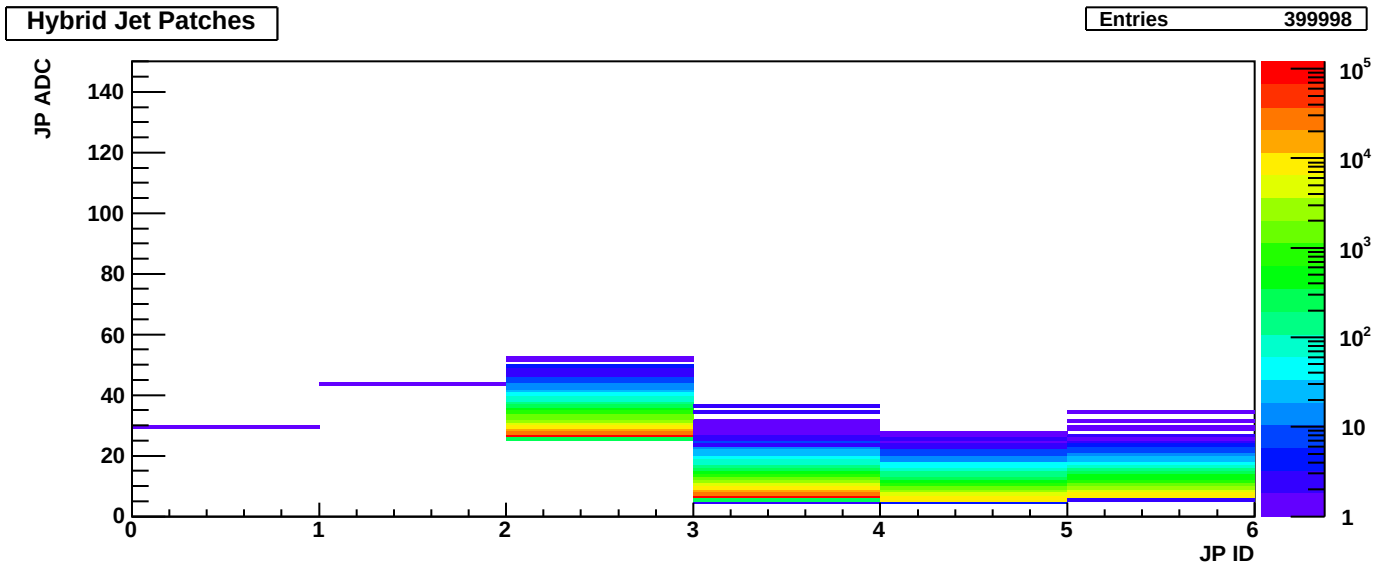

Barrel EMC L0 Input - Patch Sum
Entries 5.99997e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

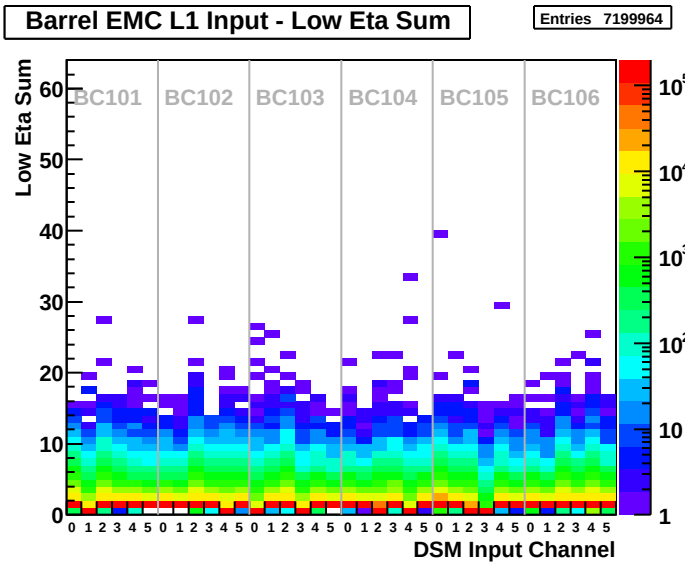

Endcap EMC L0 Input - High Tower
Entries 1.799991e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

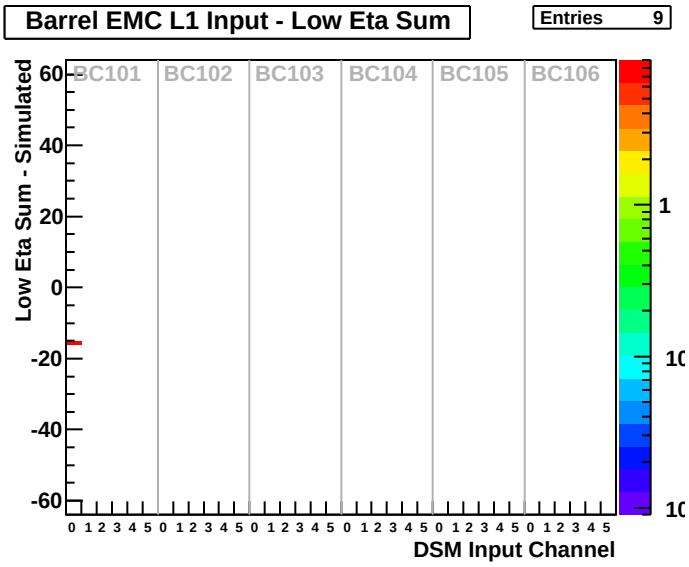

Endcap EMC L0 Input - Patch Sum
Entries 1.799991e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

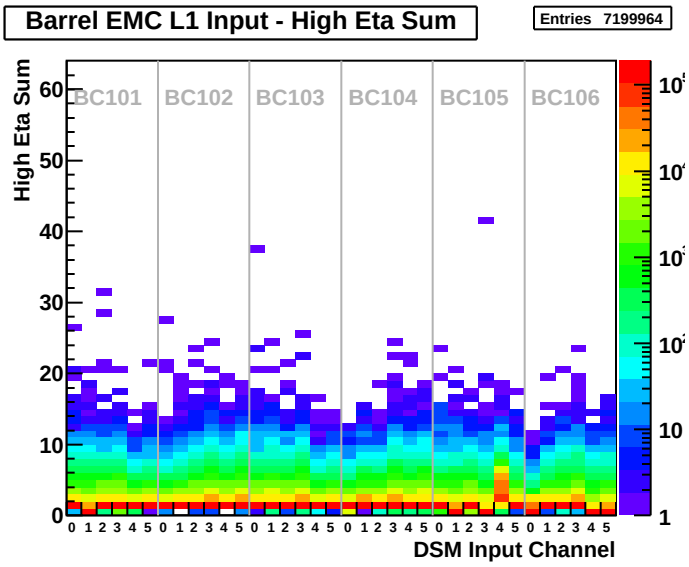

Barrel Jet Patches
Entries 3599982
JP ADC
JP ID

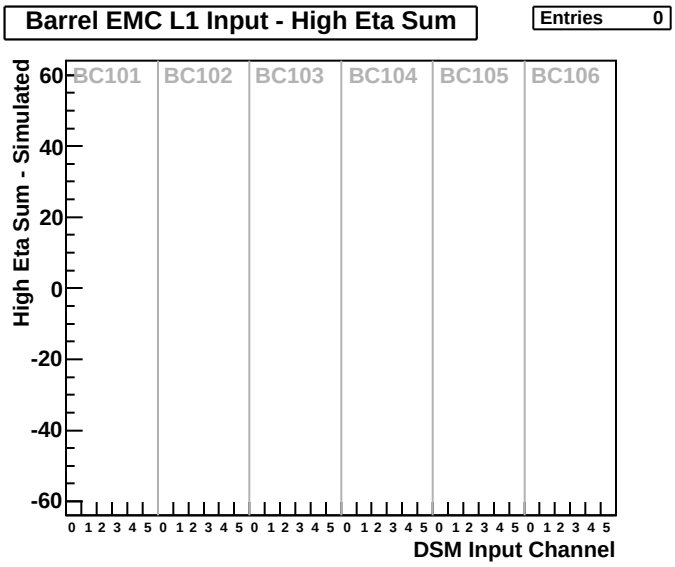

Endcap Jet Patches
Entries 1199994
JP ADC
JP ID

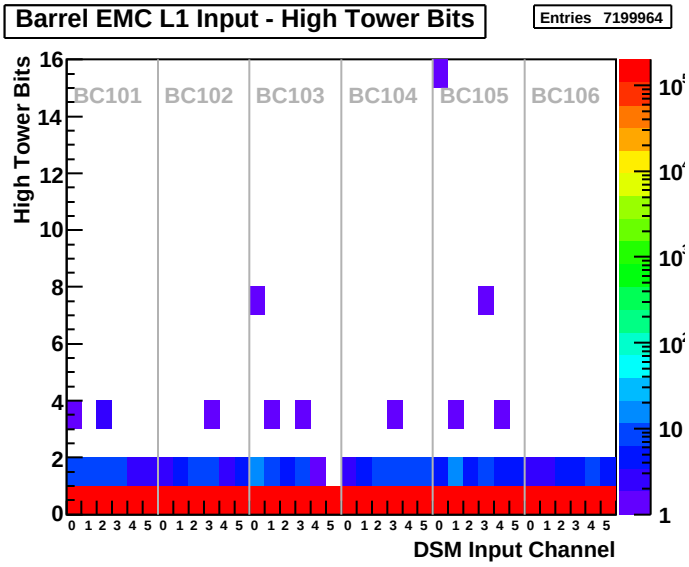

Hybrid Jet Patches
Entries 399998
JP ADC
JP ID

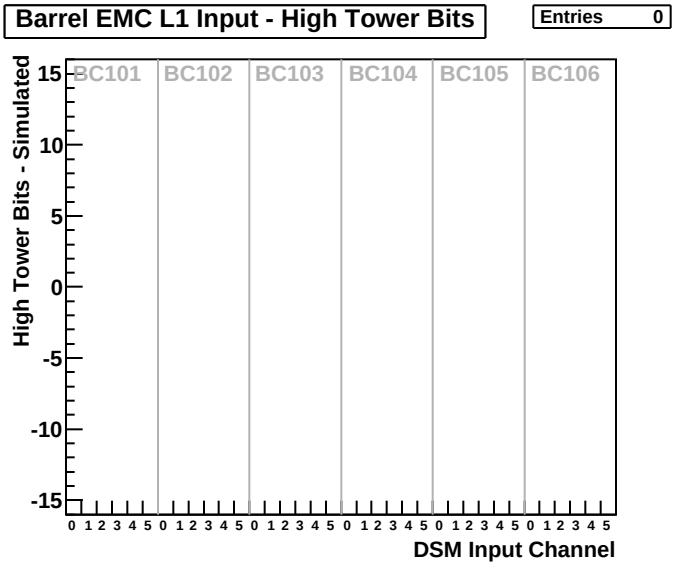

Barrel EMC L1 Input - Low Eta Sum
Entries 7199964
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

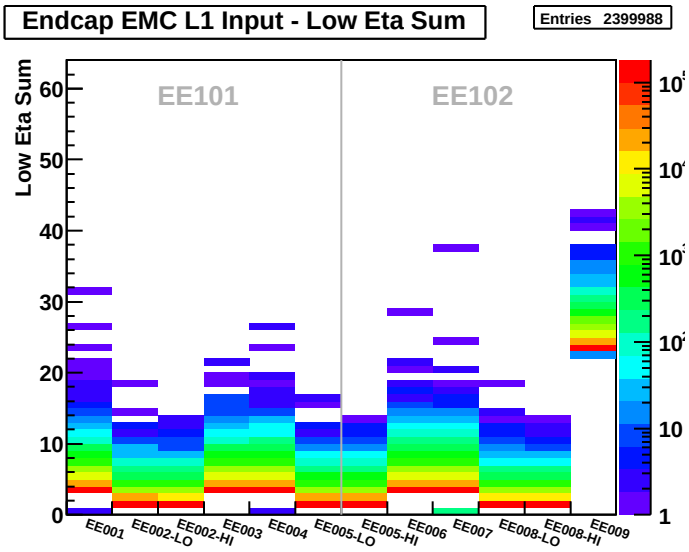

Barrel EMC L1 Input - Low Eta Sum
Entries 9
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

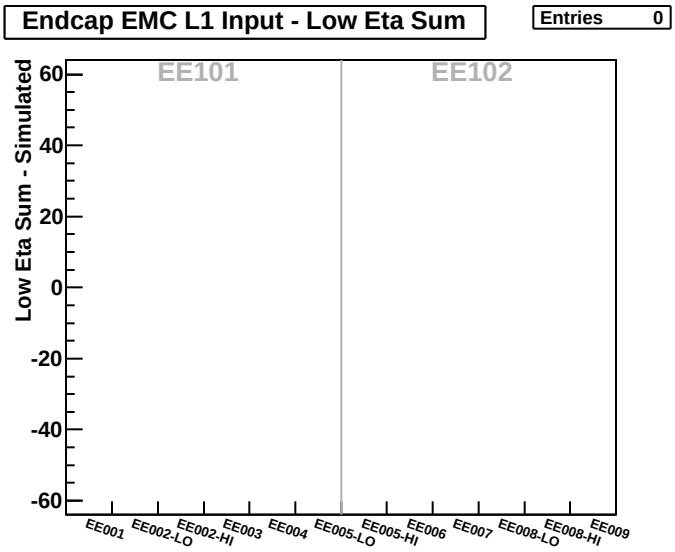

Barrel EMC L1 Input - High Eta Sum
Entries 7199964
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

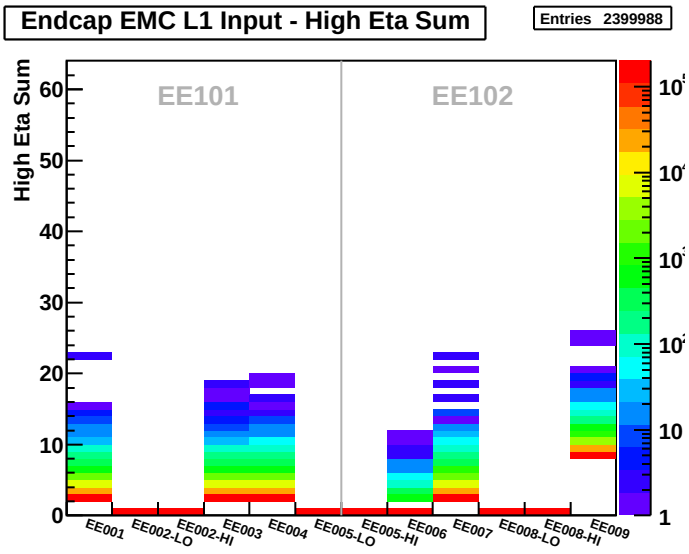

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

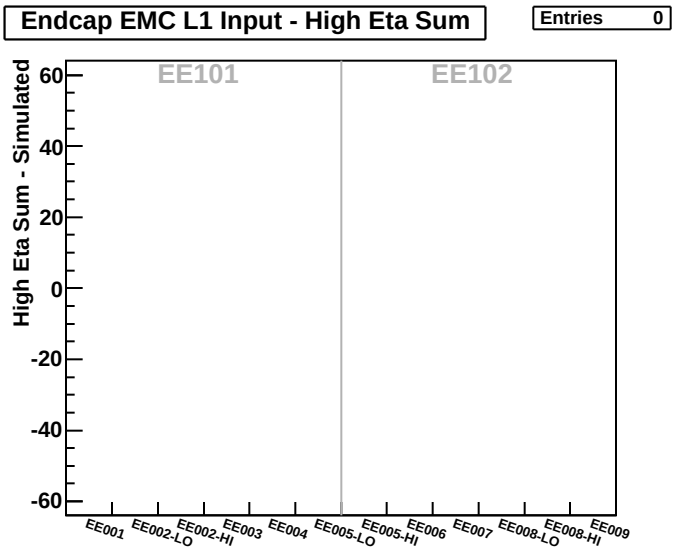

Barrel EMC L1 Input - High Tower Bits
Entries 7199964
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

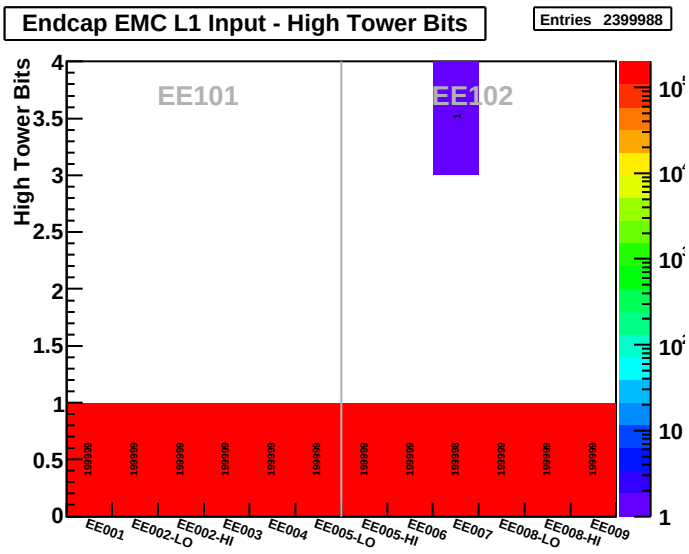

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

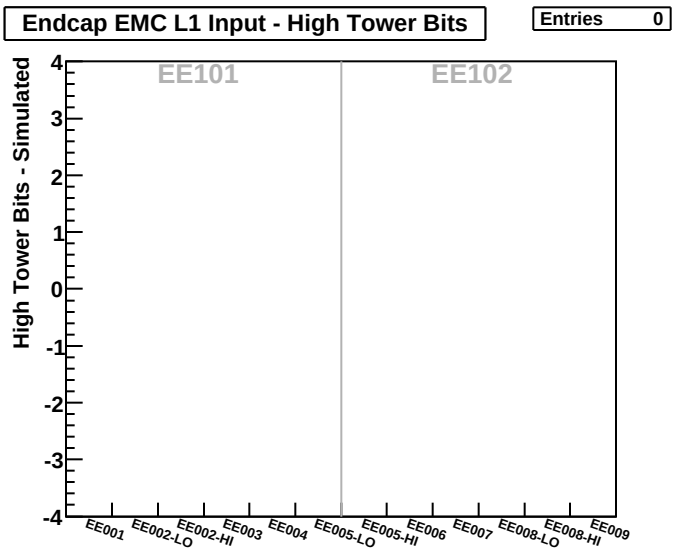

Endcap EMC L1 Input - Low Eta Sum
Entries 2399988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

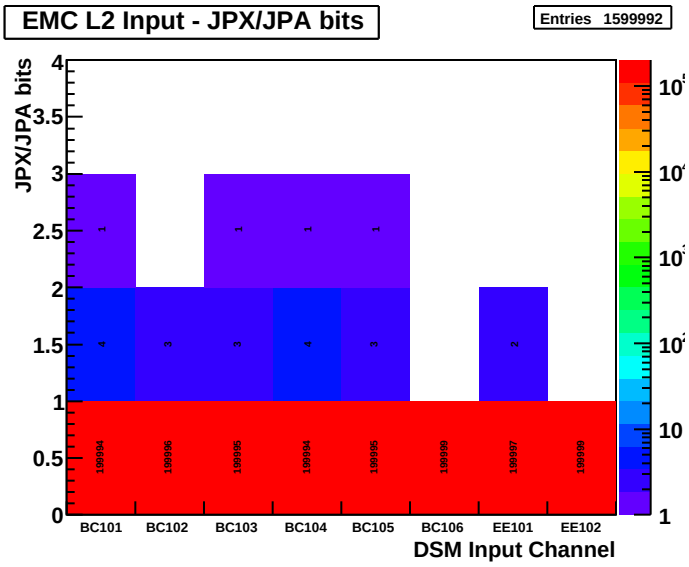

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

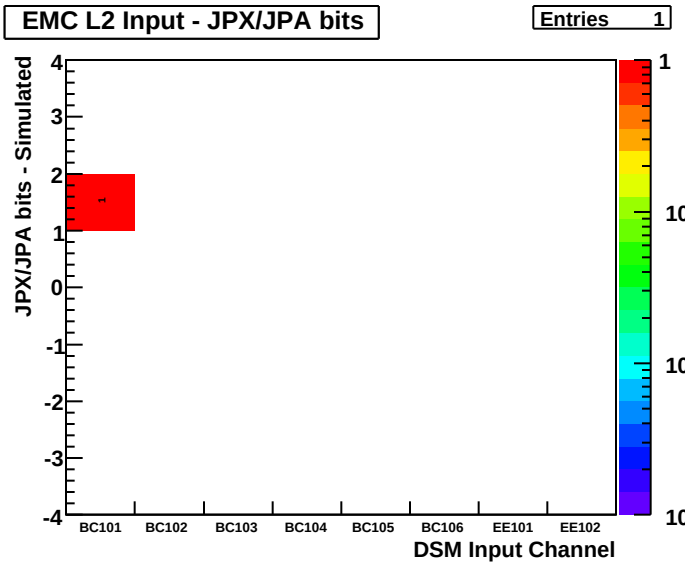

Endcap EMC L1 Input - High Eta Sum
Entries 2399988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

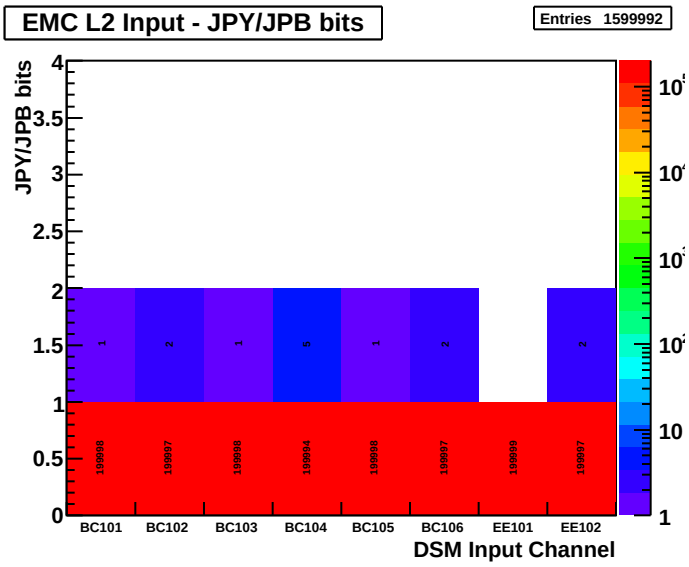

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

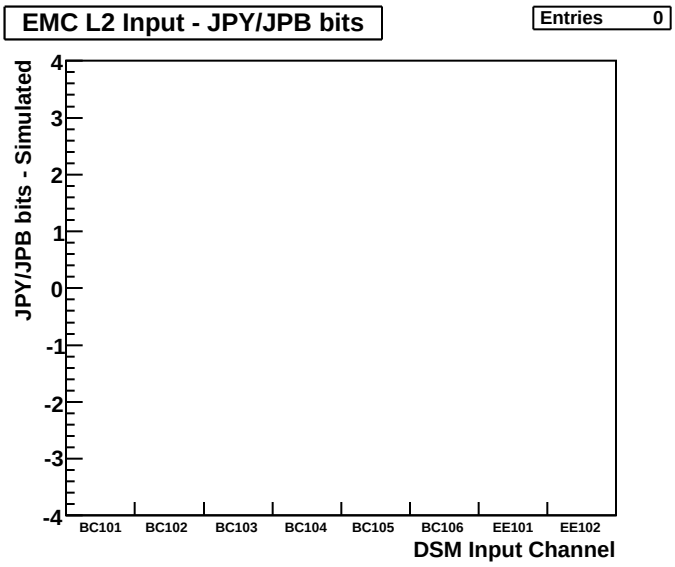

Endcap EMC L1 Input - High Tower Bits
Entries 2399988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

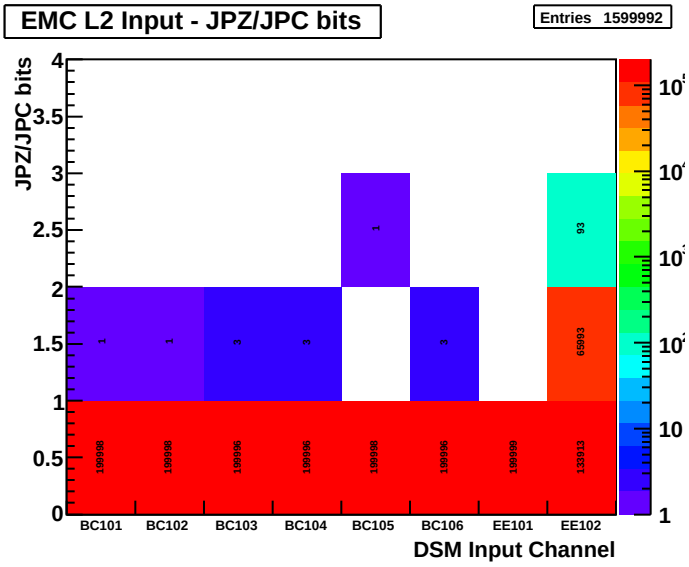

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

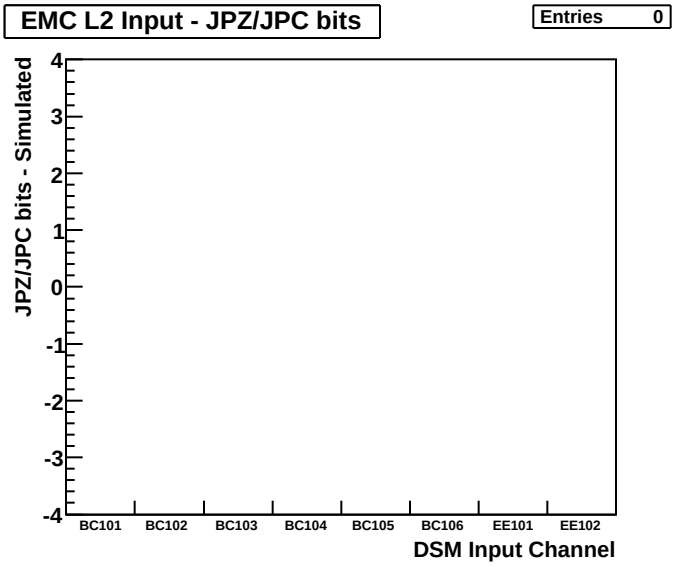

EMC L2 Input - JPX/JPA bits
Entries 1599992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

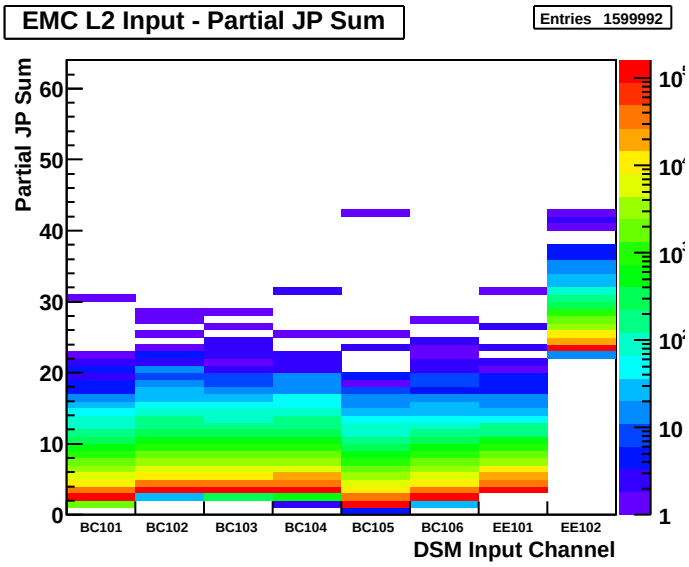

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

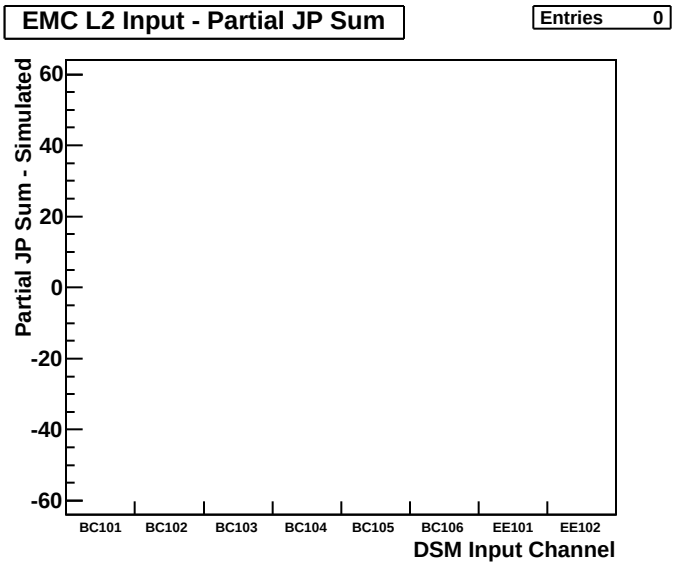

EMC L2 Input - JPY/JPB bits
Entries 1599992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

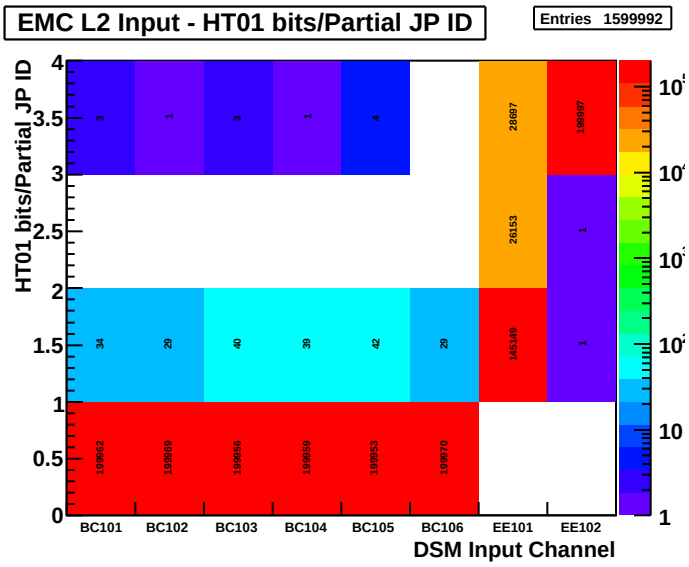

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

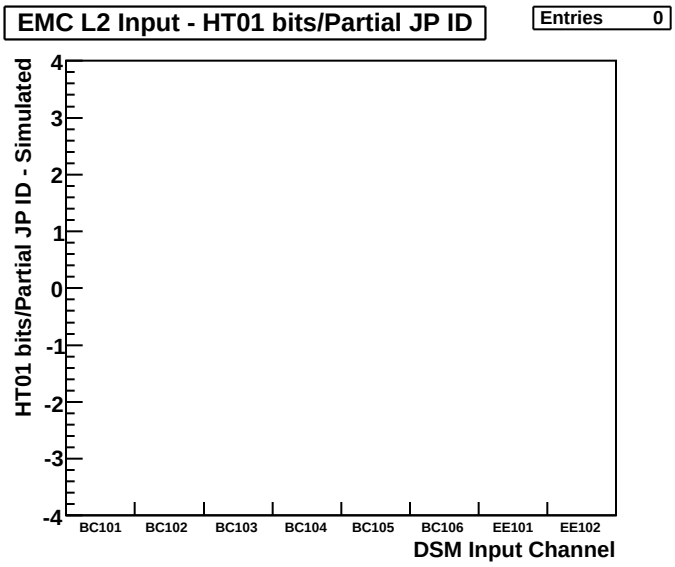

EMC L2 Input - JPZ/JPC bits
Entries 1599992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

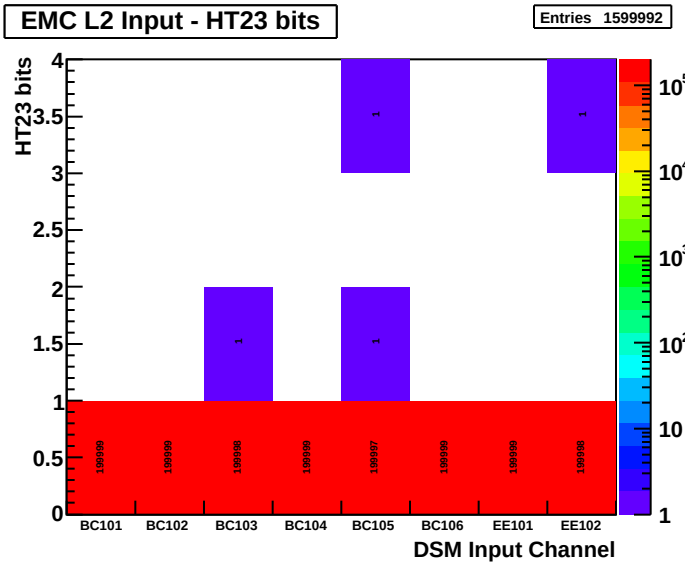

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

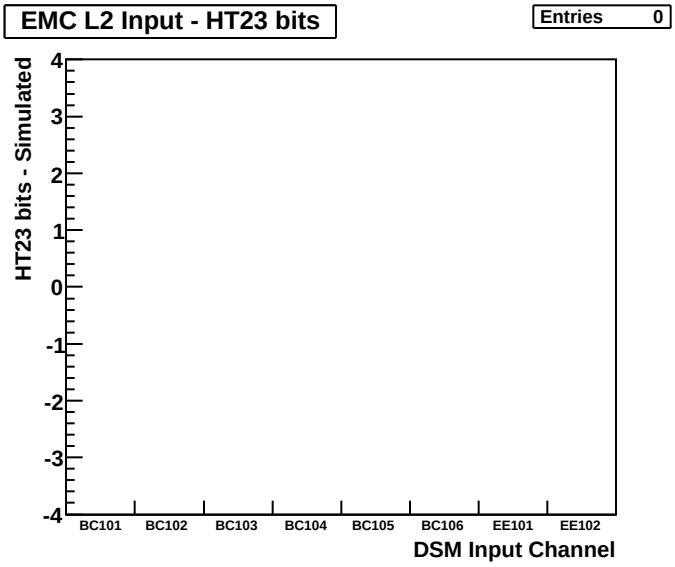

EMC L2 Input - Partial JP Sum
Entries 1599992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

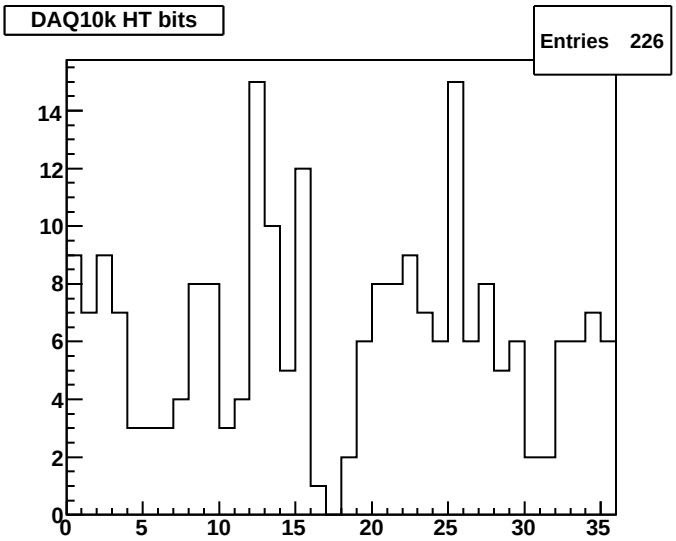

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

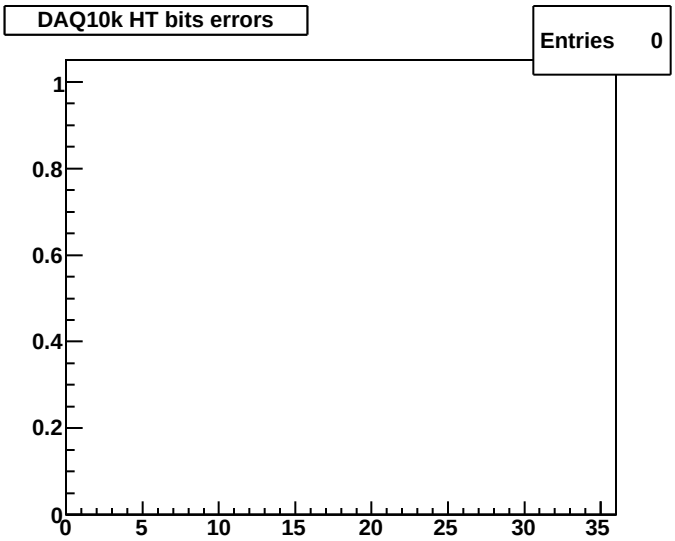

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1599992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

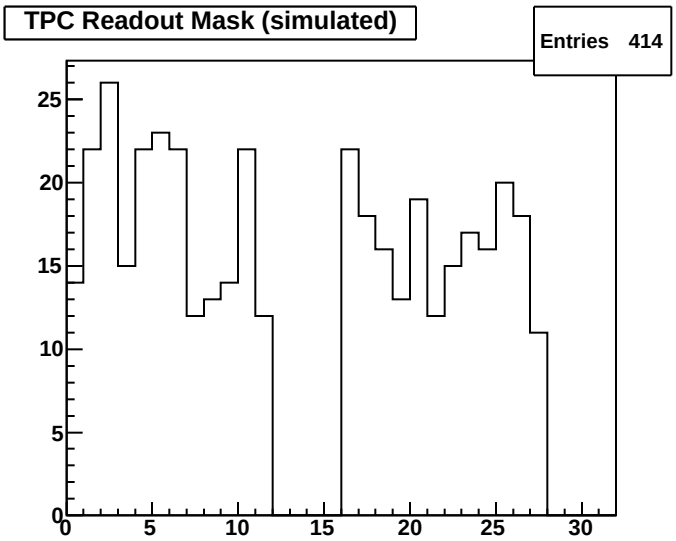

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

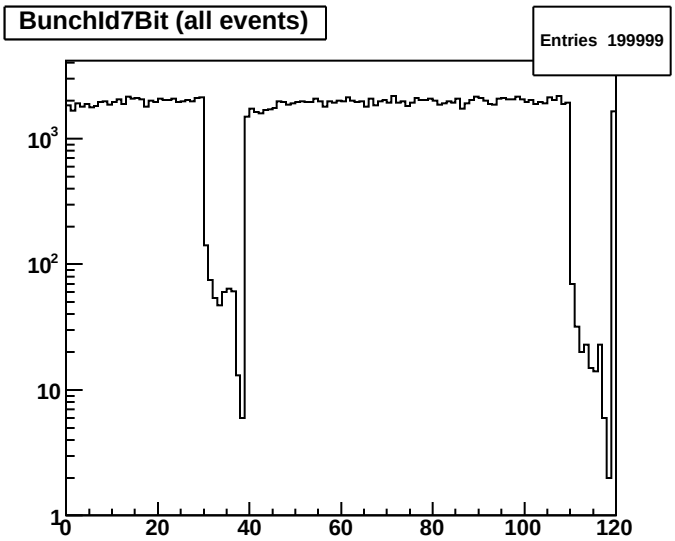

EMC L2 Input - HT23 bits
Entries 1599992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

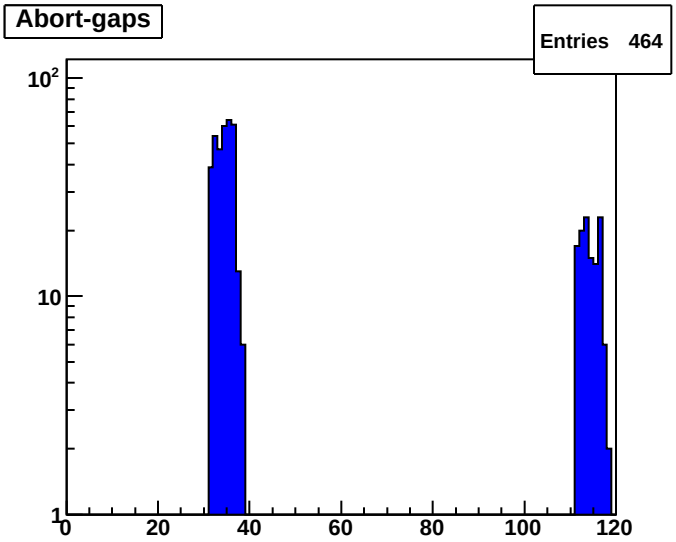

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

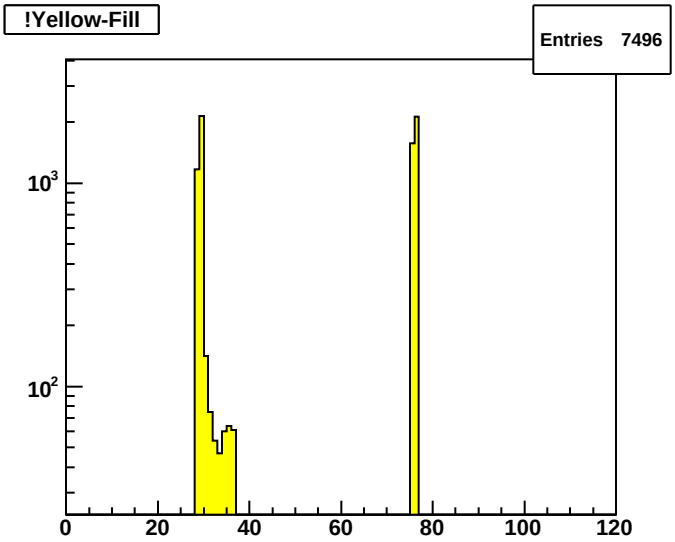

DAQ10k HT bits
Entries 226

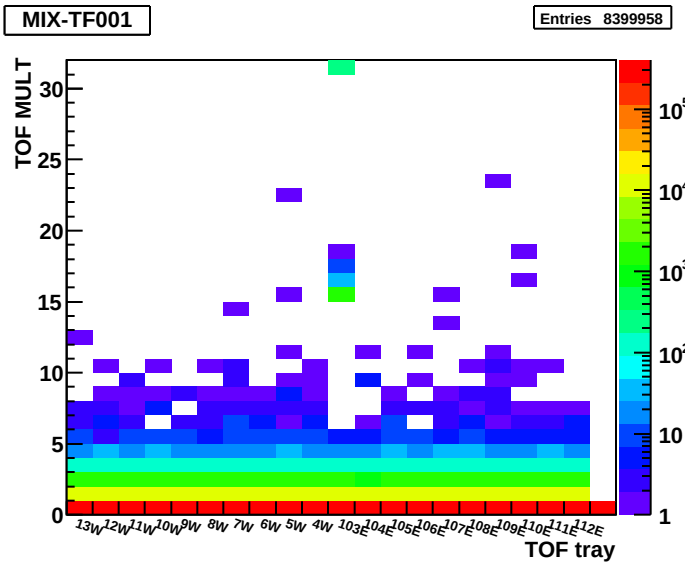

DAQ10k HT bits errors
Entries 0

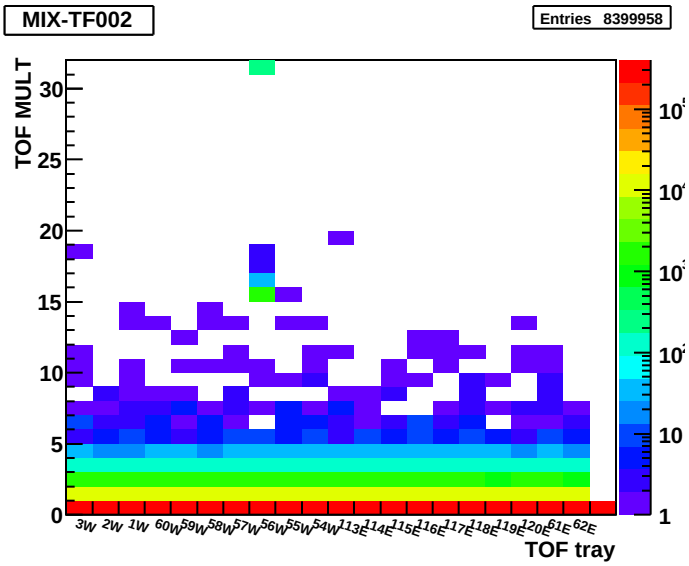

TPC Readout Mask (simulated)
Entries 414

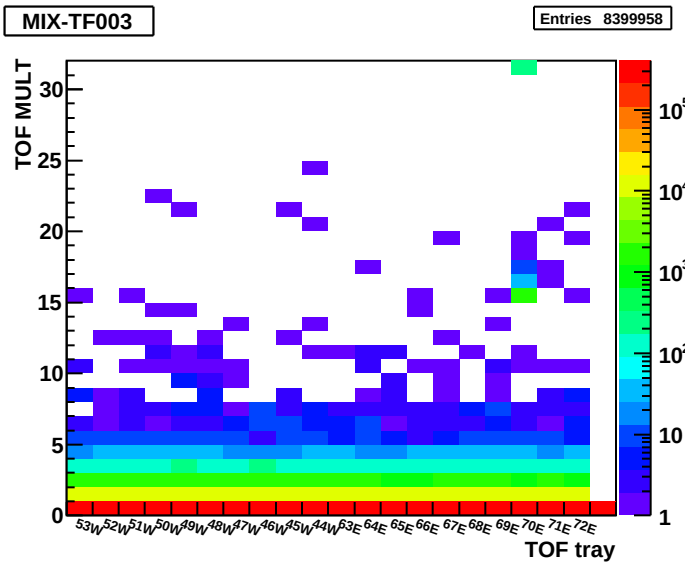

BunchId7Bit (all events)
Entries 199999

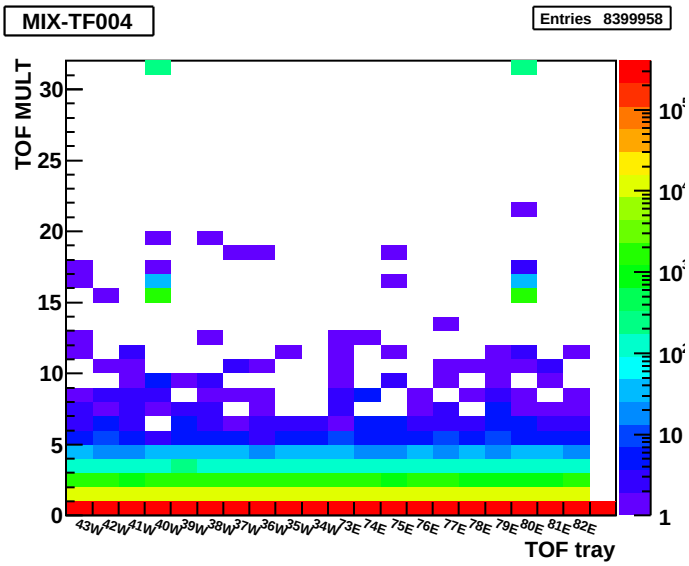

Abort-gaps
Entries 464

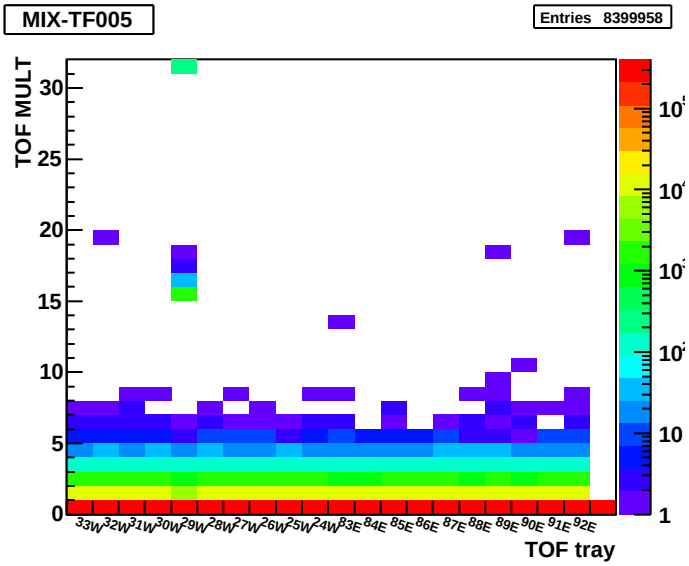

!Yellow-Fill
Entries 7496

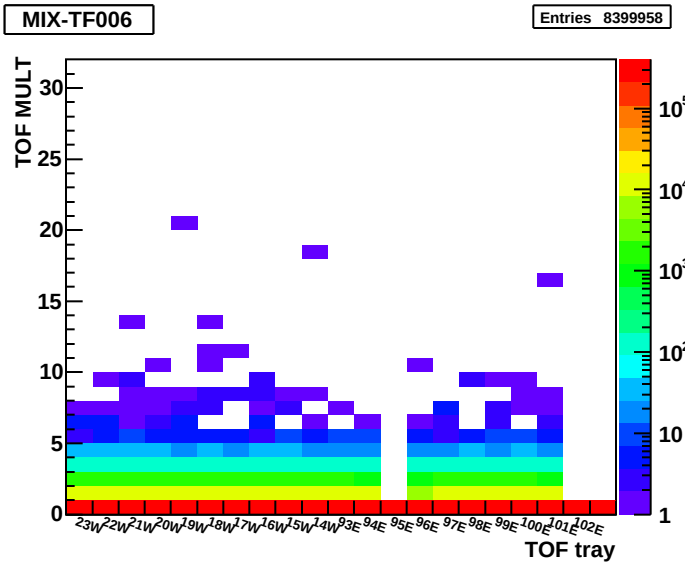

MIX-TF001
Entries 8399958
TOF MULT
TOF tray

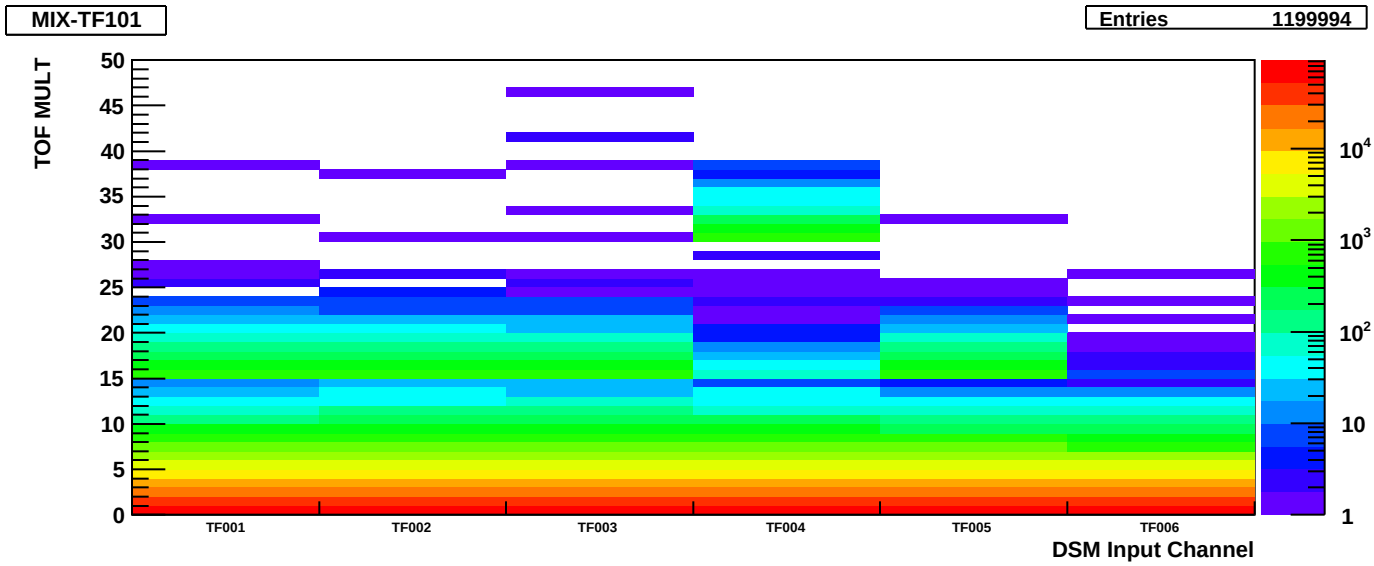

MIX-TF002
Entries 8399958
TOF MULT
TOF tray

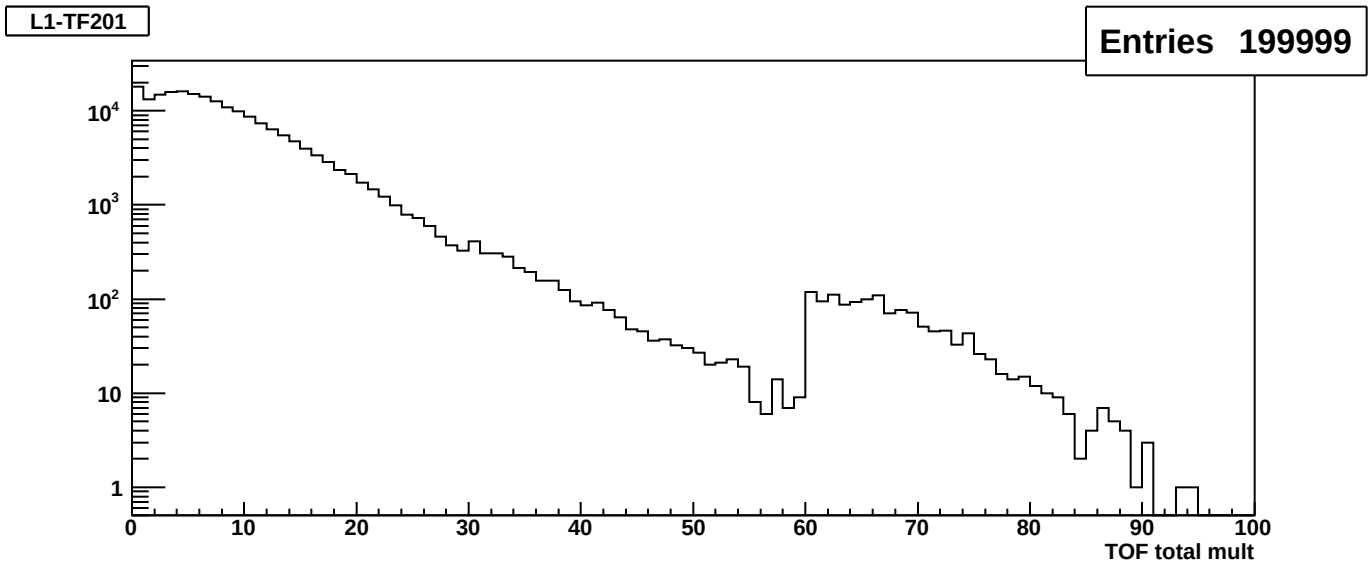

MIX-TF003
Entries 8399958
TOF MULT
TOF tray

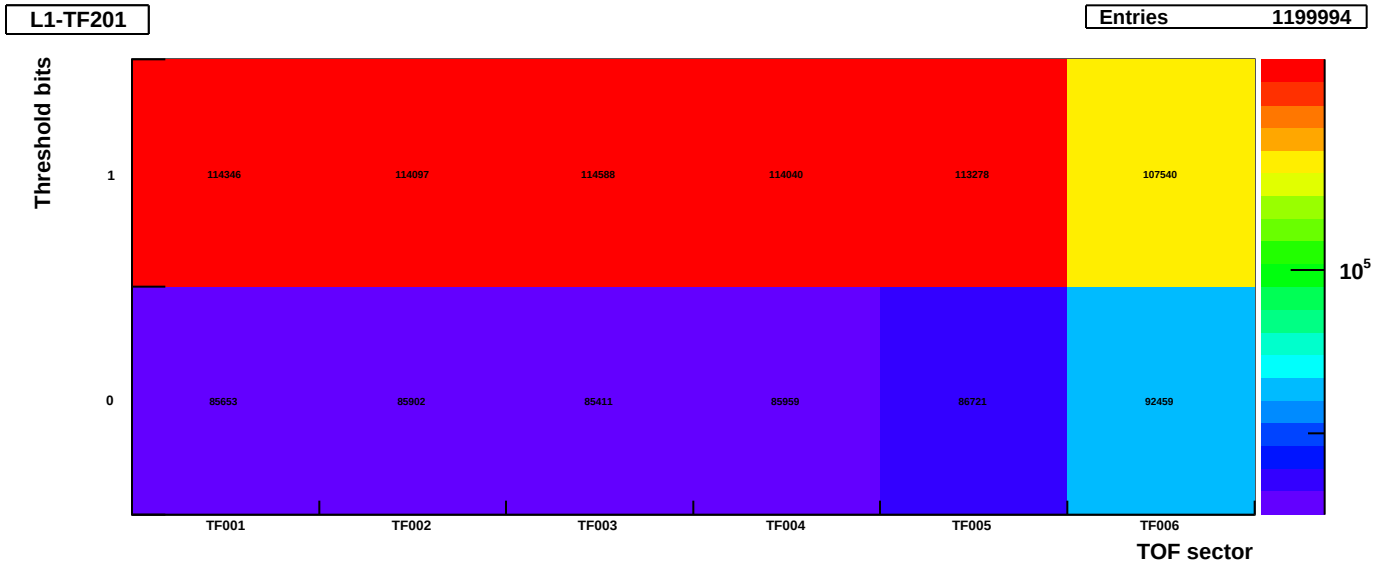

MIX-TF004
Entries 8399958
TOF MULT
TOF tray

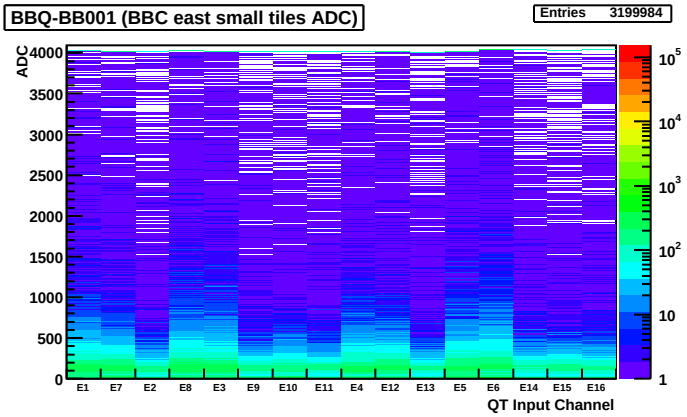

MIX-TF005
Entries 8399958
TOF MULT
TOF tray

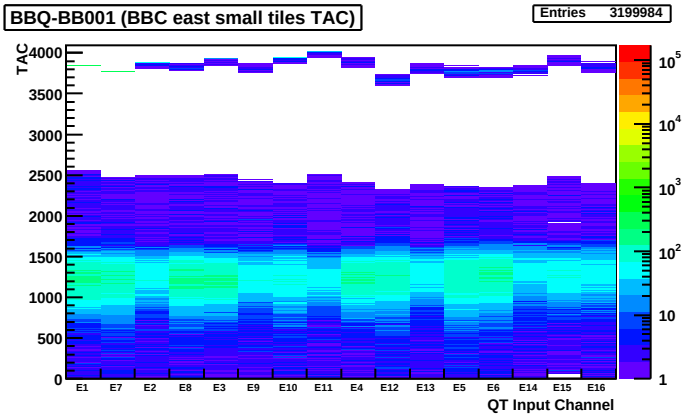

MIX-TF006
Entries 8399958
TOF MULT
TOF tray

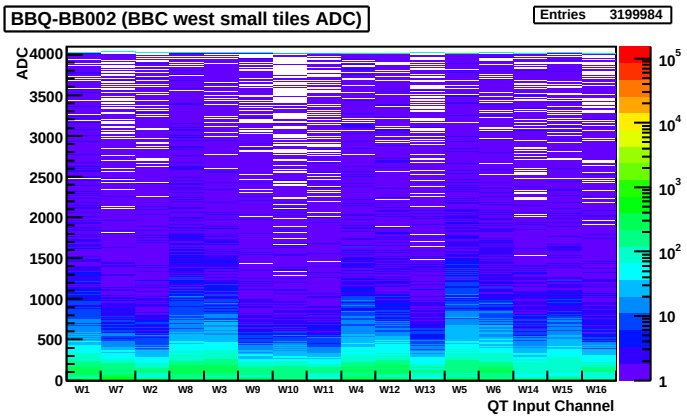

MIX-TF101
Entries 1199994
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

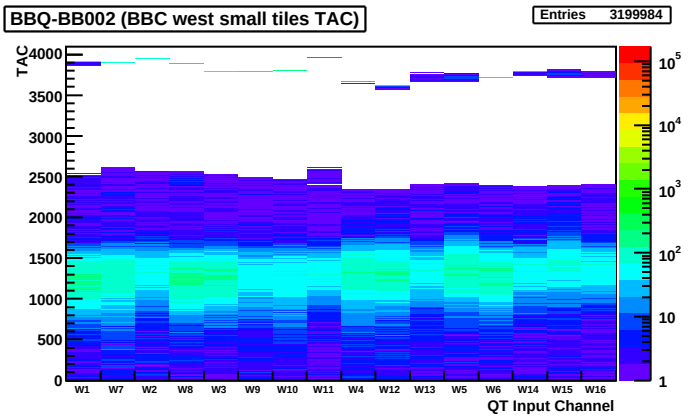

L1-TF201
Entries 199999
TOF total mult

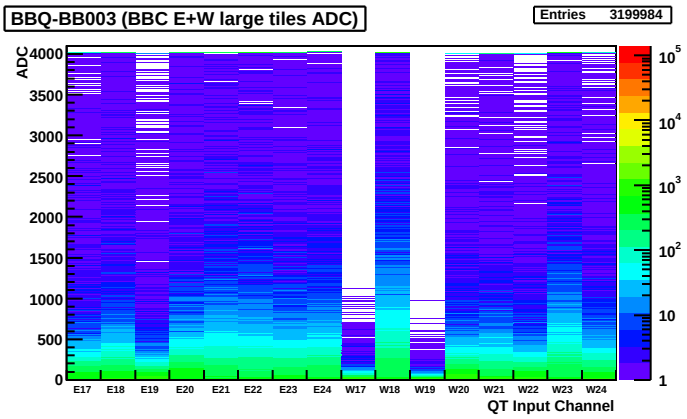

L1-TF201
Entries 1199994
Threshold bits
114346
114097
114588
114040
113278
107540
85653
85902
85411
85959
86721
92459
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

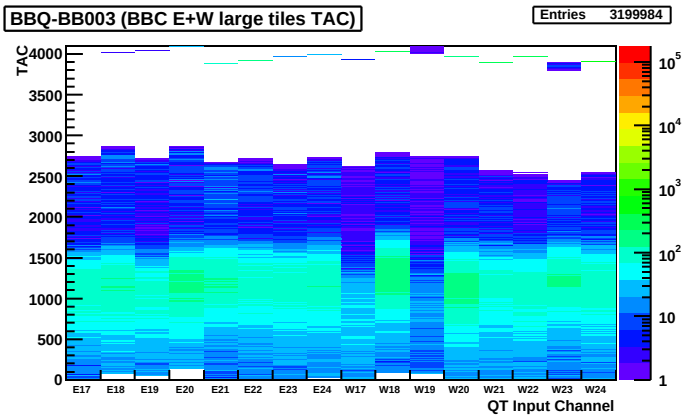

BBQ-BB001 (BBC east small tiles ADC)
Entries 3199984
ADC
QT Input Channel

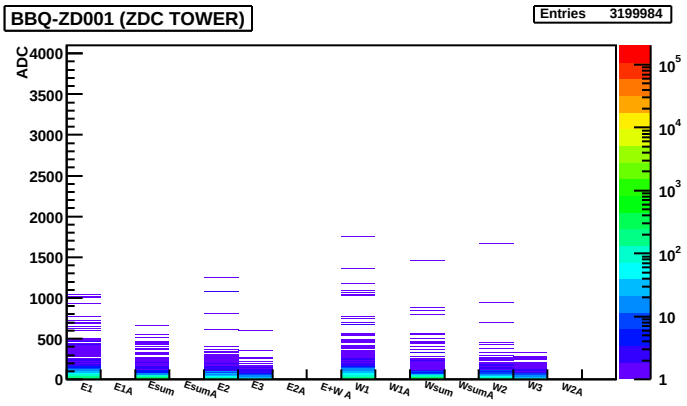

BBQ-BB001 (BBC east small tiles TAC)
Entries 3199984
TAC
QT Input Channel

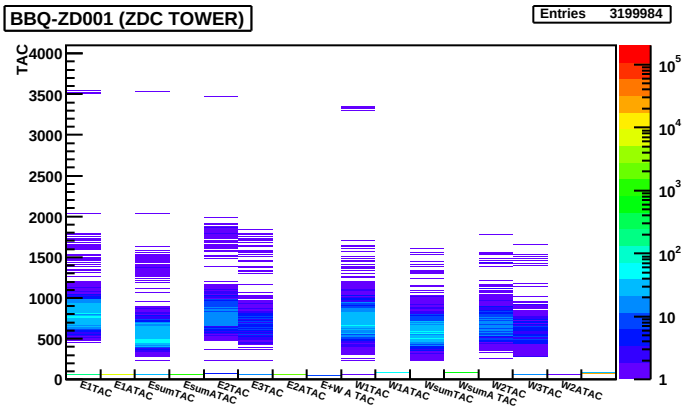

BBQ-BB002 (BBC west small tiles ADC)
Entries 3199984
ADC
QT Input Channel

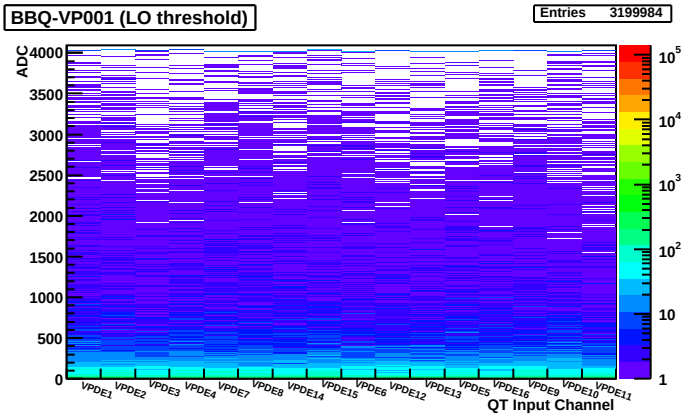

BBQ-BB002 (BBC west small tiles TAC)
Entries 3199984
TAC
QT Input Channel

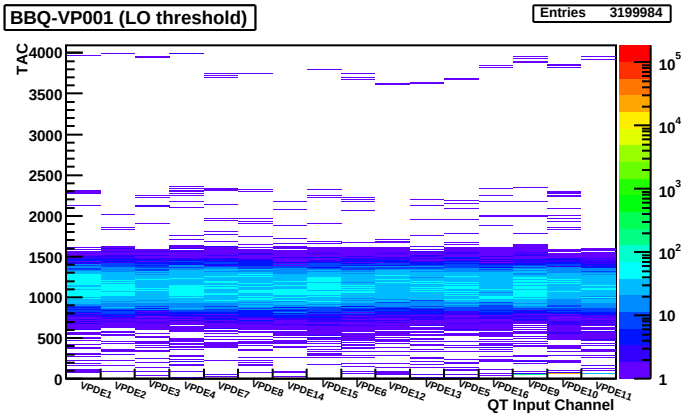

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3199984
ADC
QT Input Channel

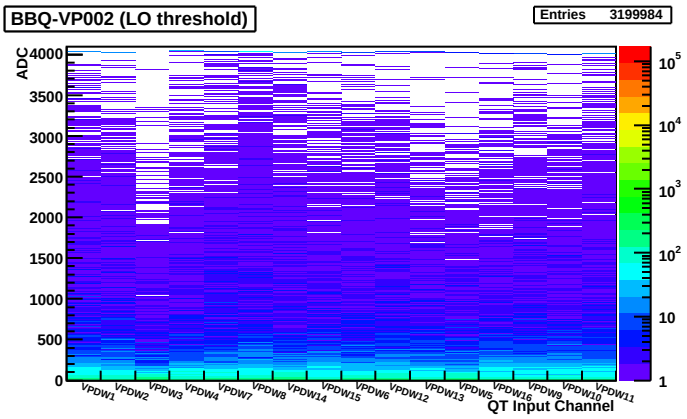

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3199984
TAC
QT Input Channel

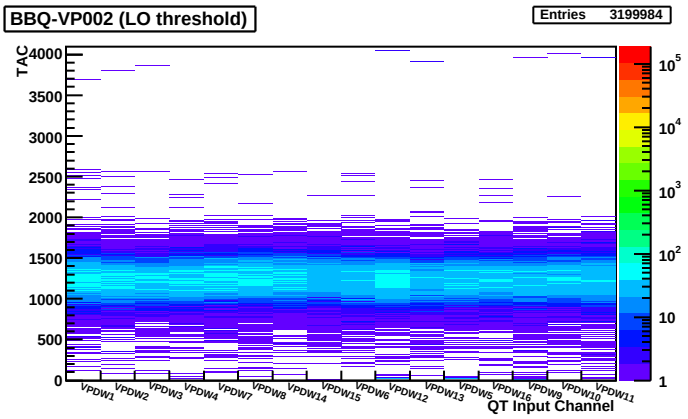

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
ADC

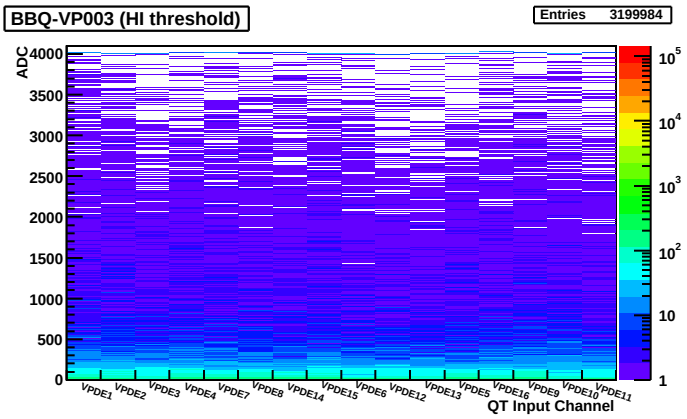

BBQ-ZD001 (ZDC TOWER)
Entries 3199984
TAC

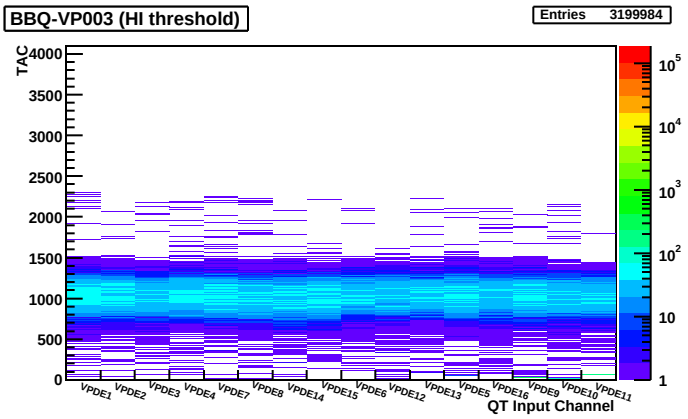

BBQ-VP001 (LO threshold)
Entries 3199984
ADC
QT Input Channel

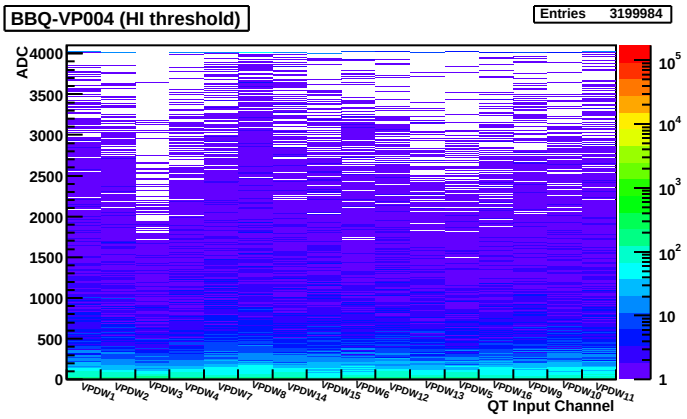

BBQ-VP001 (LO threshold)
Entries 3199984
TAC
QT Input Channel

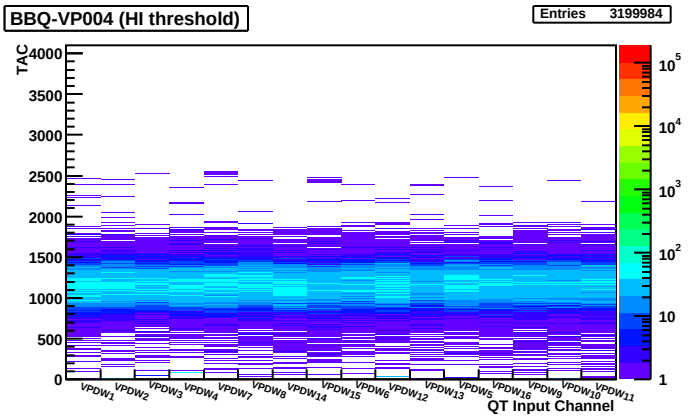

BBQ-VP002 (LO threshold)
Entries 3199984
ADC
QT Input Channel

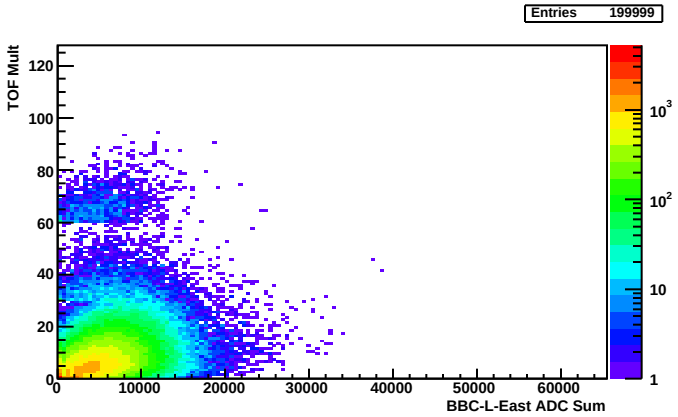

BBQ-VP002 (LO threshold)
Entries 3199984
TAC
QT Input Channel

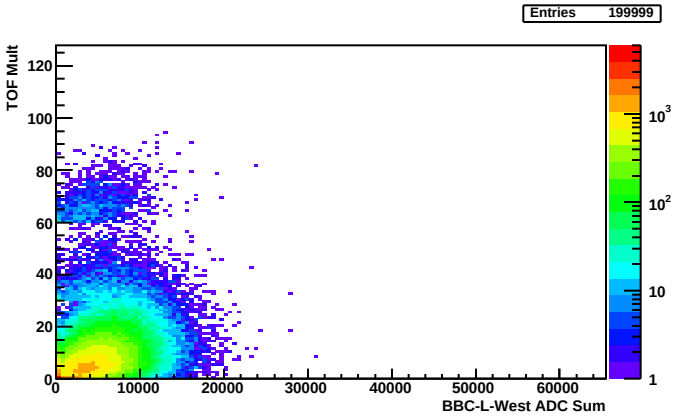

BBQ-VP003 (HI threshold)
Entries 3199984
ADC
QT Input Channel

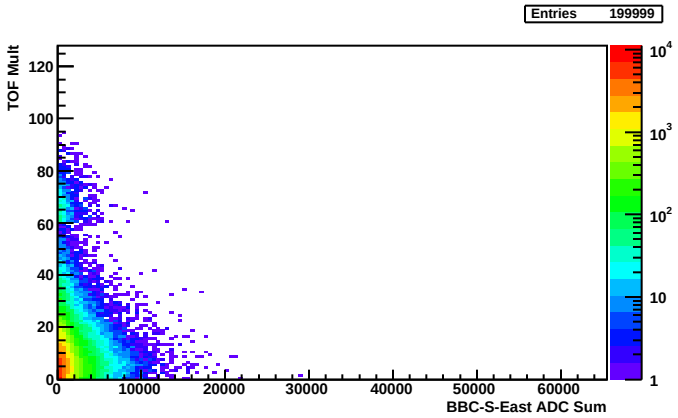

BBQ-VP003 (HI threshold)
Entries 3199984
TAC
QT Input Channel

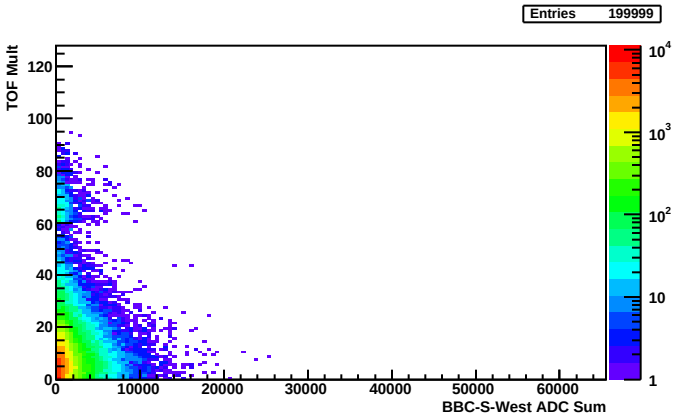

BBQ-VP004 (HI threshold)
Entries 3199984
ADC
QT Input Channel

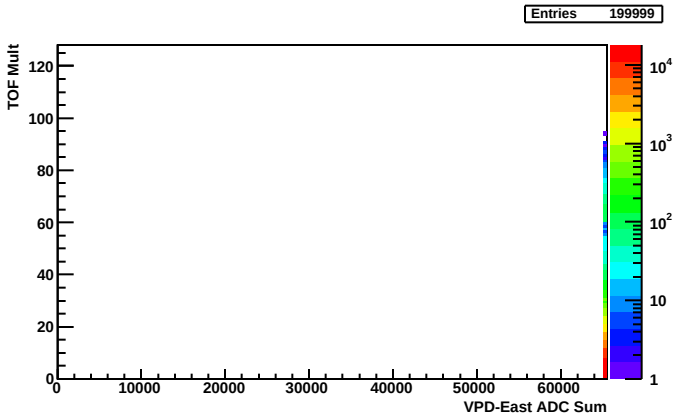

BBQ-VP004 (HI threshold)
Entries 3199984
TAC
QT Input Channel

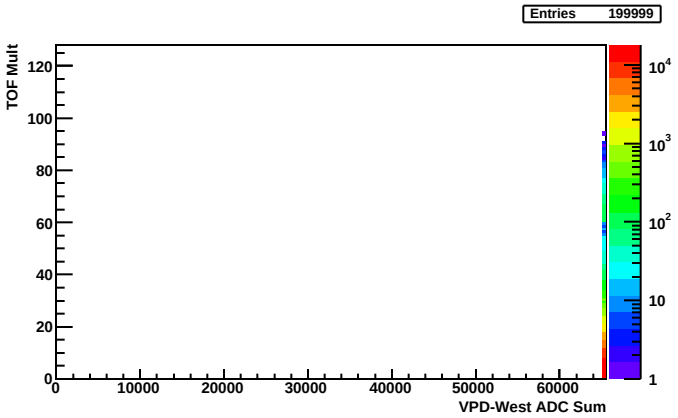

Entries 199999
TOF Mult
BBC-L-East ADC Sum

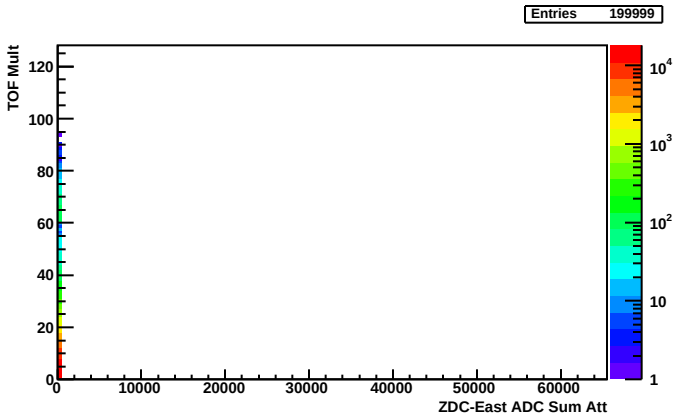

Entries 199999
TOF Mult
BBC-L-West ADC Sum

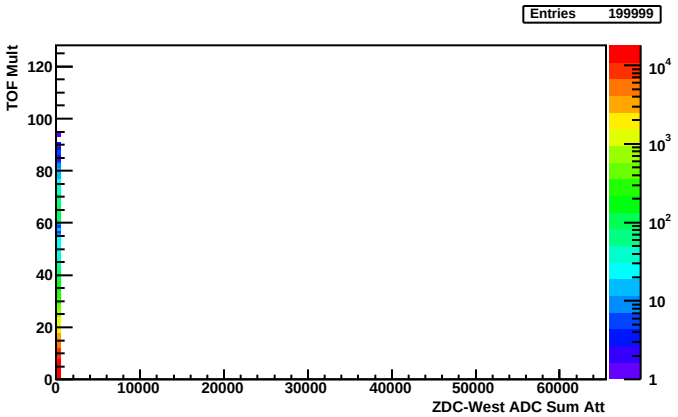

Entries 199999
TOF Mult
BBC-S-East ADC Sum

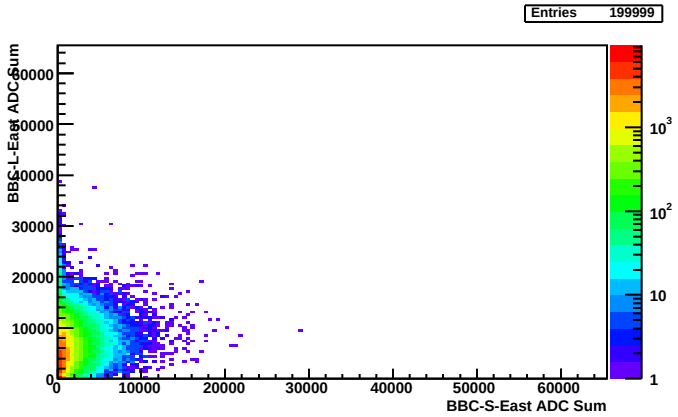

Entries 199999
TOF Mult
BBC-S-West ADC Sum

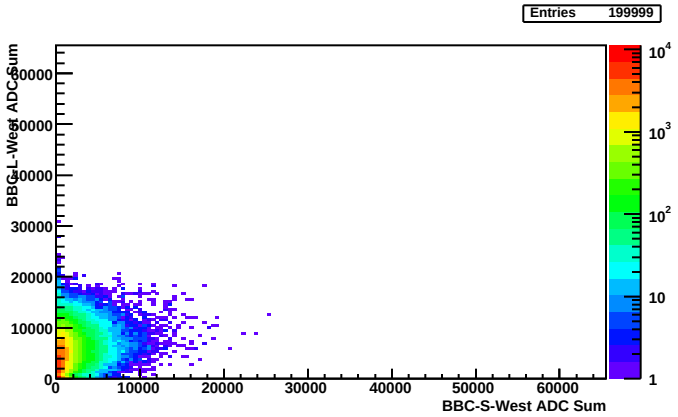

Entries 199999
TOF Mult
VPD-East ADC Sum

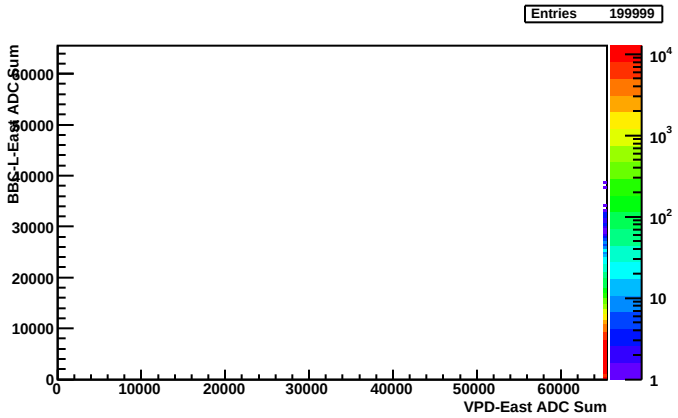

Entries 199999
TOF Mult
VPD-West ADC Sum


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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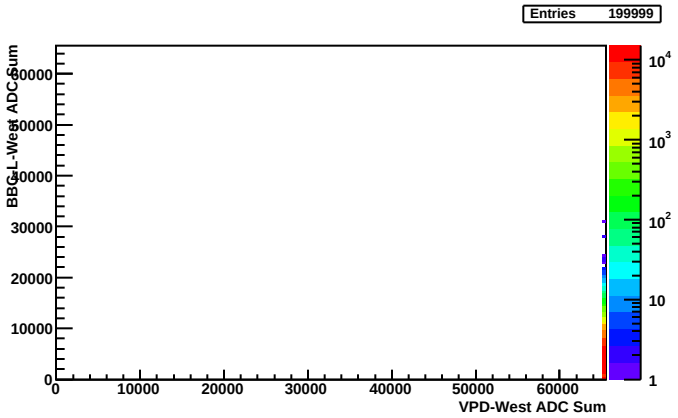
BBC-L-East ADC Sum
VPD-East ADC Sum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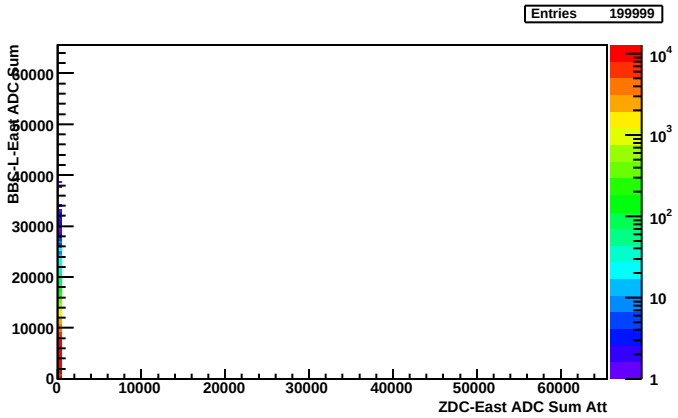
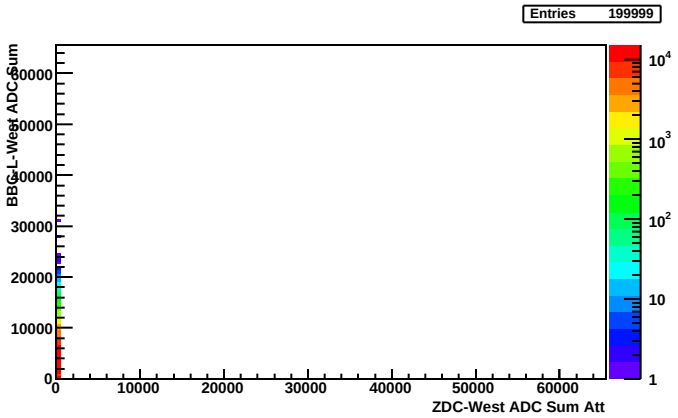
BBC-L-West ADC Sum
VPD-West ADC Sum


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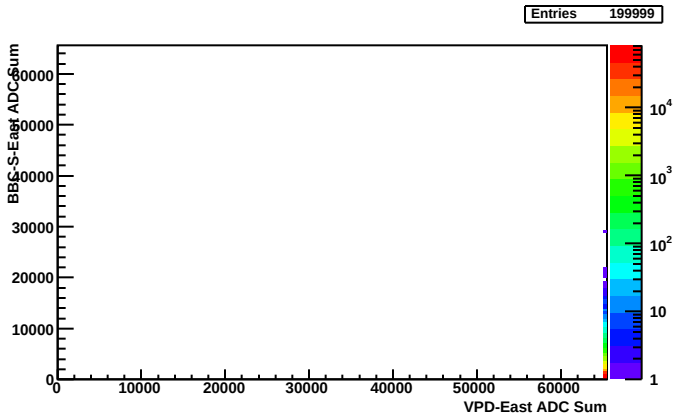
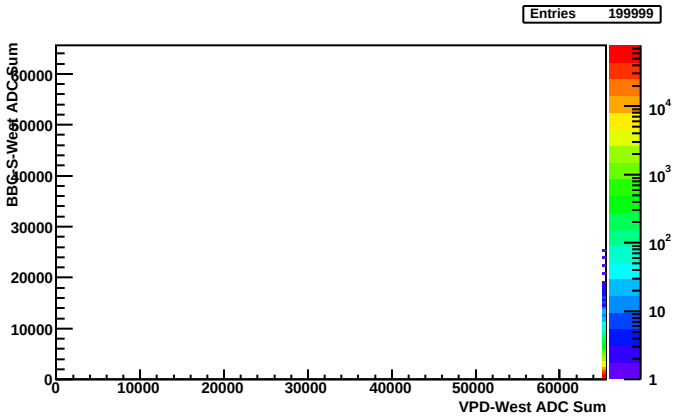
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


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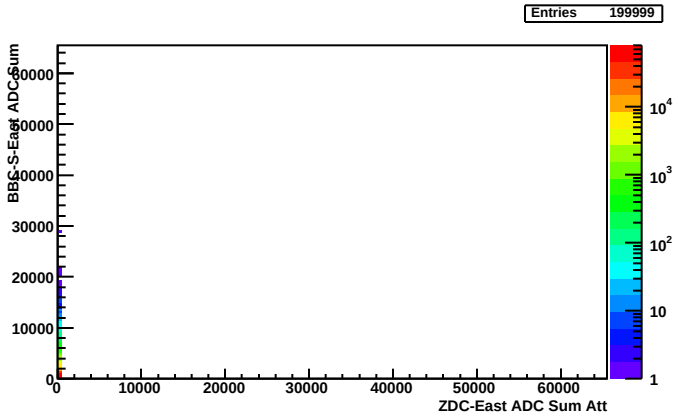
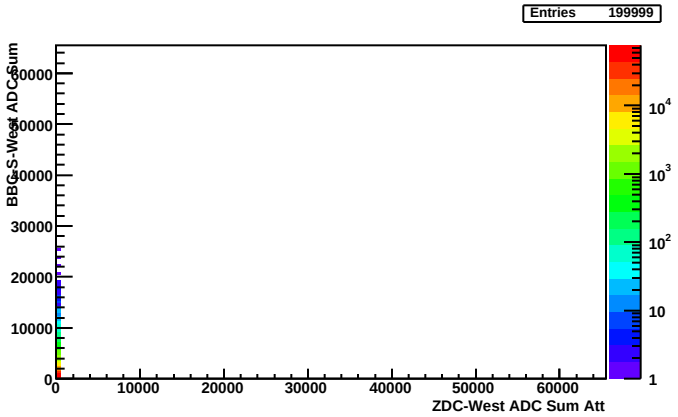
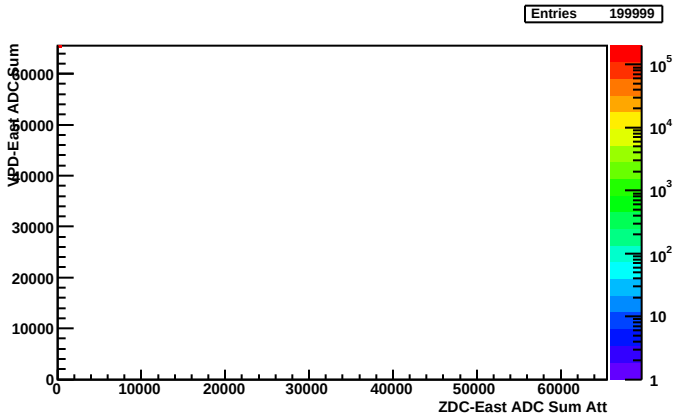
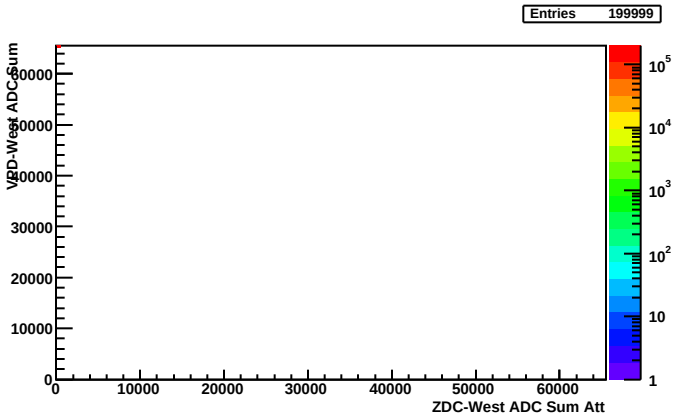
BBC-S-West ADC Sum
VPD-West ADC Sum


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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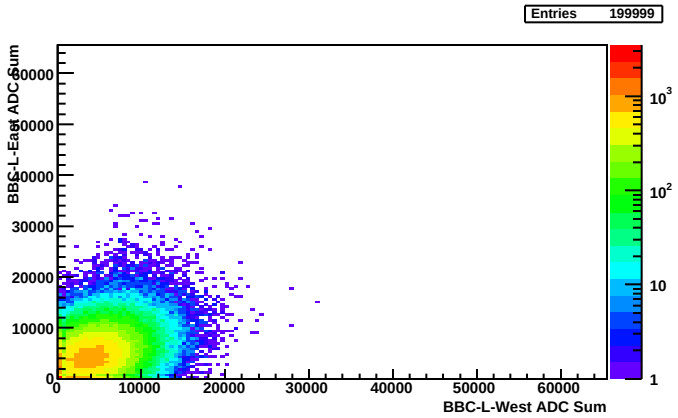
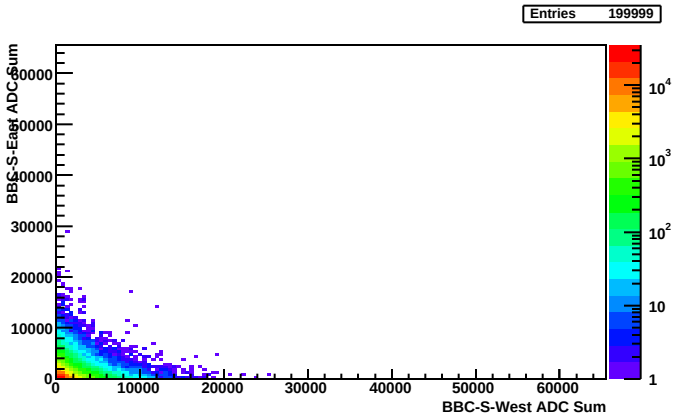
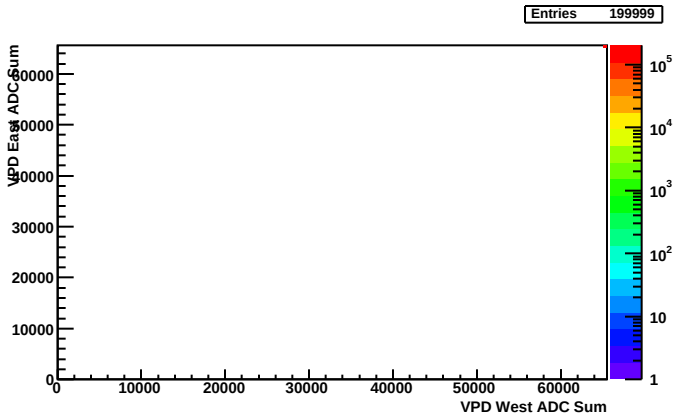
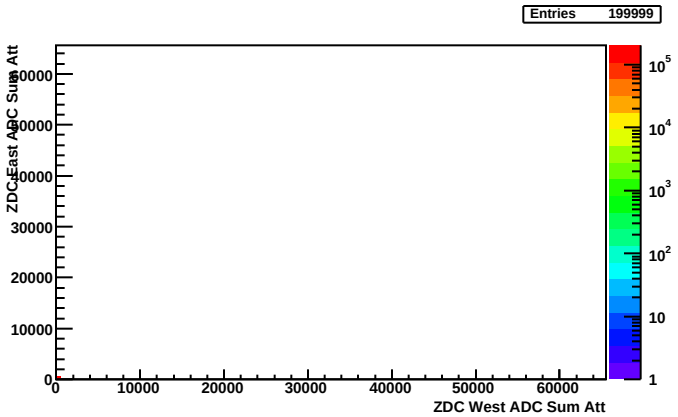
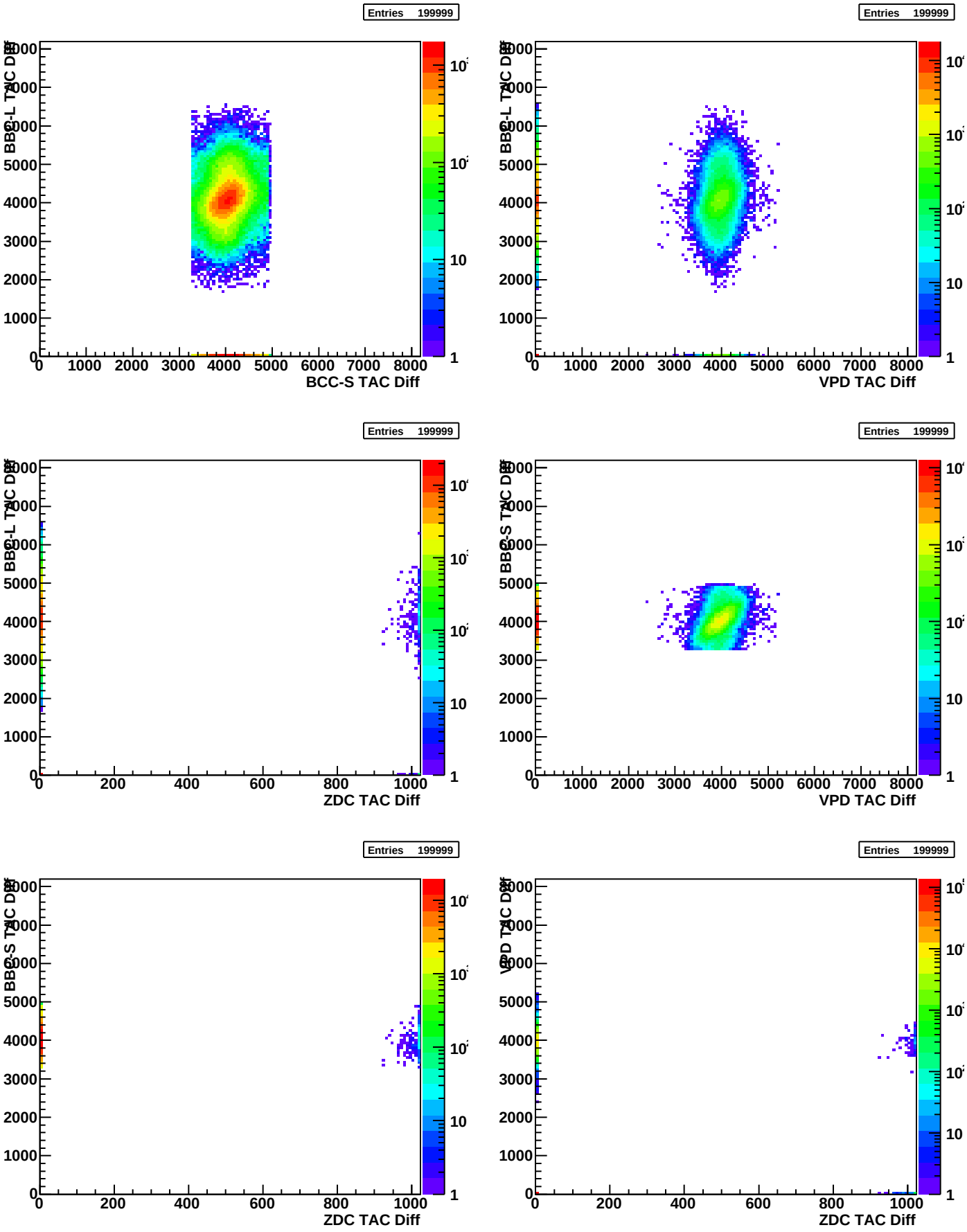
VPD-West ADC Sum
ZDC-West ADC Sum Att

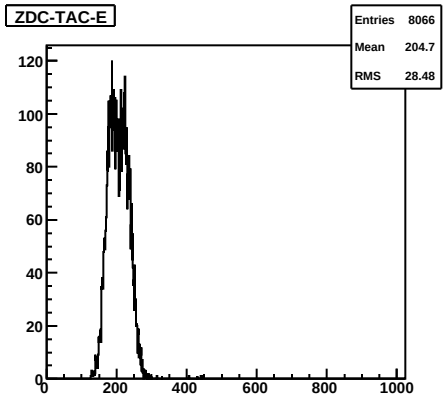

Entries 199999
BBC-L-East ADC Sum
BBC-L-West ADC Sum

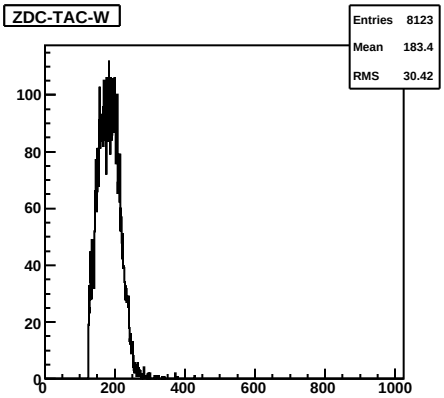

Entries 199999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

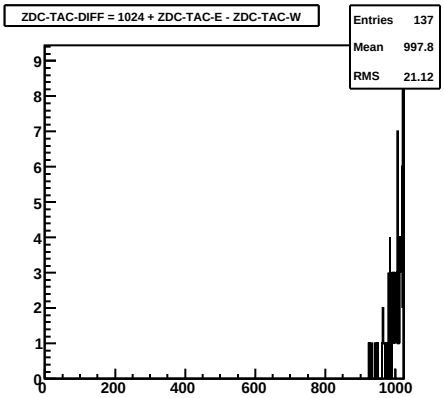

Entries 199999
VPD East ADC Sum
VPD West ADC Sum

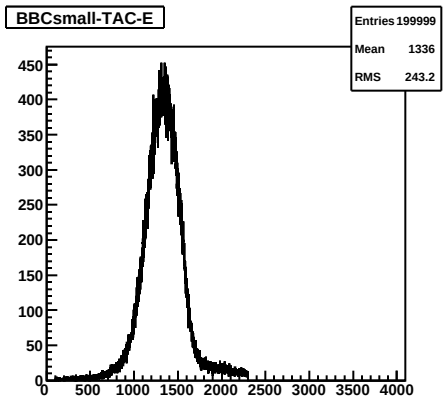

Entries 199999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

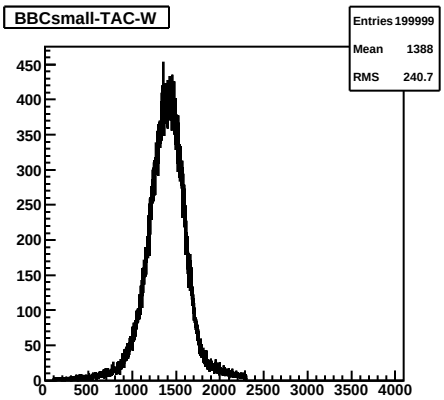

Entries 199999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 199999
BBC-L TAC Diff
VPD TAC Diff
Entries 199999
BBC-L TAC Diff
ZDC TAC Diff
Entries 199999
BBC-S TAC Diff
VPD TAC Diff
Entries 199999
BBC-S TAC Diff
ZDC TAC Diff
Entries 199999
VPD TAC Diff
ZDC TAC Diff

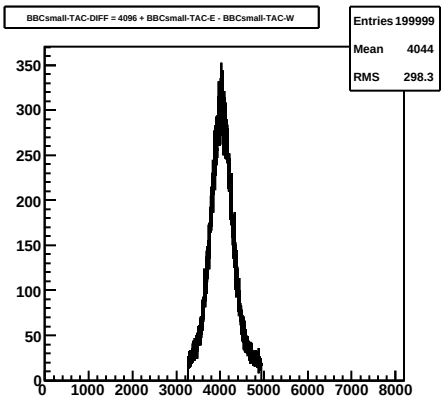

ZDC-TAC-E
Entries 8066
Mean 204.7
RMS 28.48

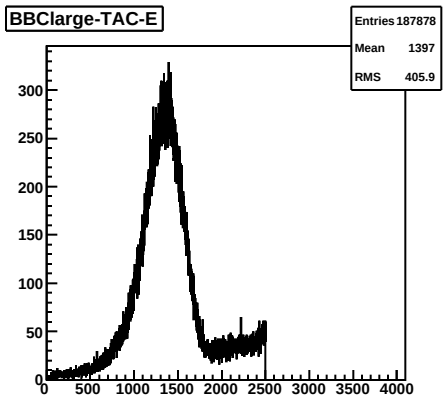

ZDC-TAC-W
Entries 8123
Mean 183.4
RMS 30.42

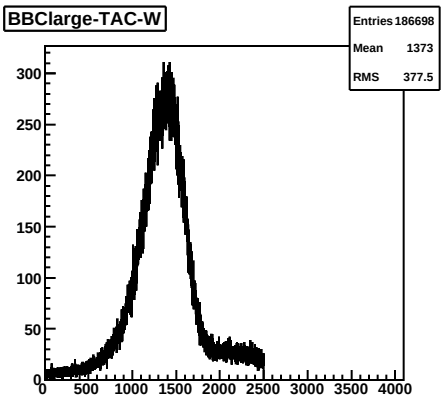

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 137
Mean 997.8
RMS 21.12

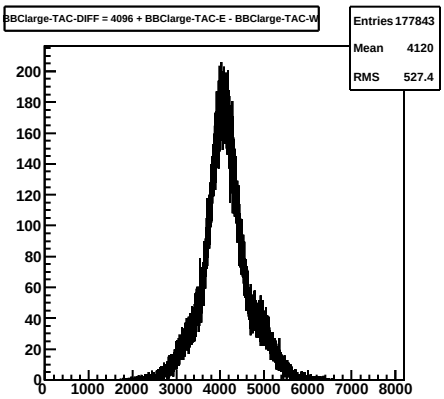

BBCsmall-TAC-E
Entries 199999
Mean 1336
RMS 243.2

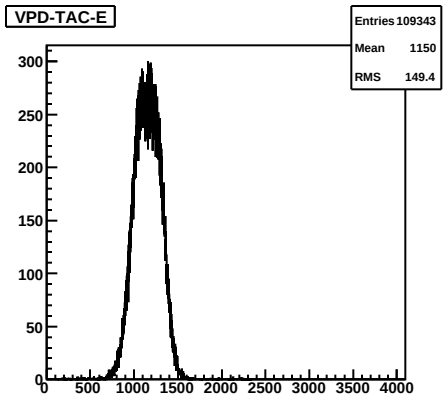

BBCsmall-TAC-W
Entries 199999
Mean 1388
RMS 240.7

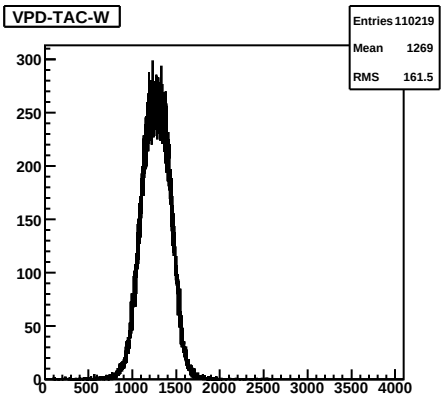

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 199999
Mean 4044
RMS 298.3

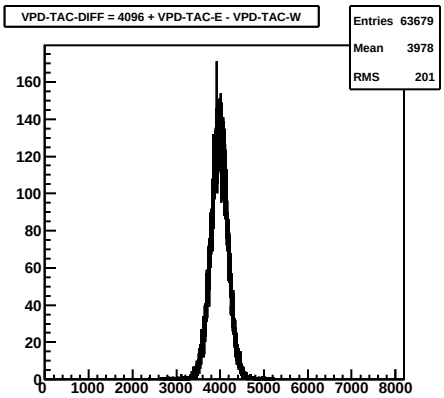

BBClarge-TAC-E
Entries 187878
Mean 1397
RMS 405.9

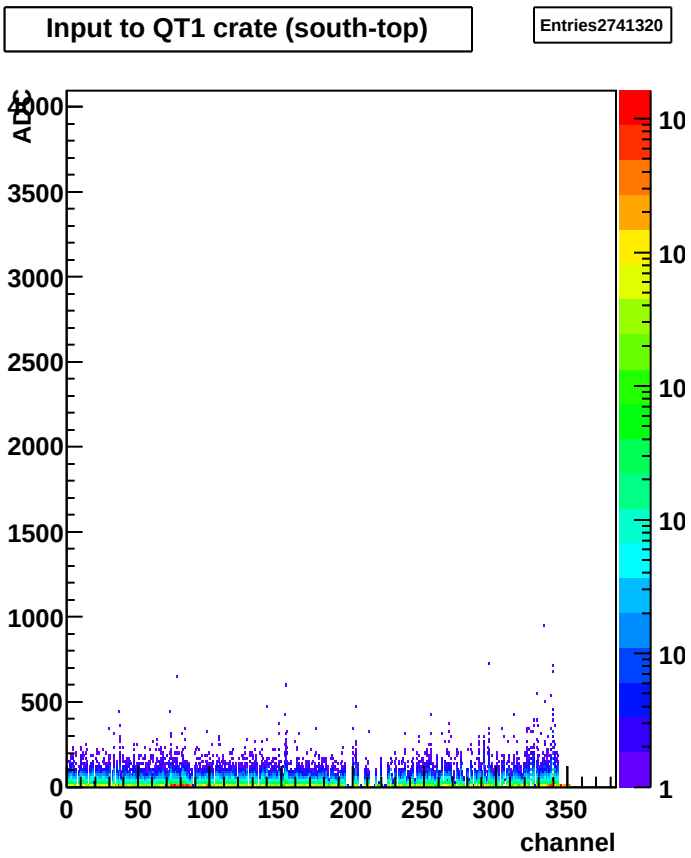

BBClarge-TAC-W
Entries 186698
Mean 1373
RMS 377.5

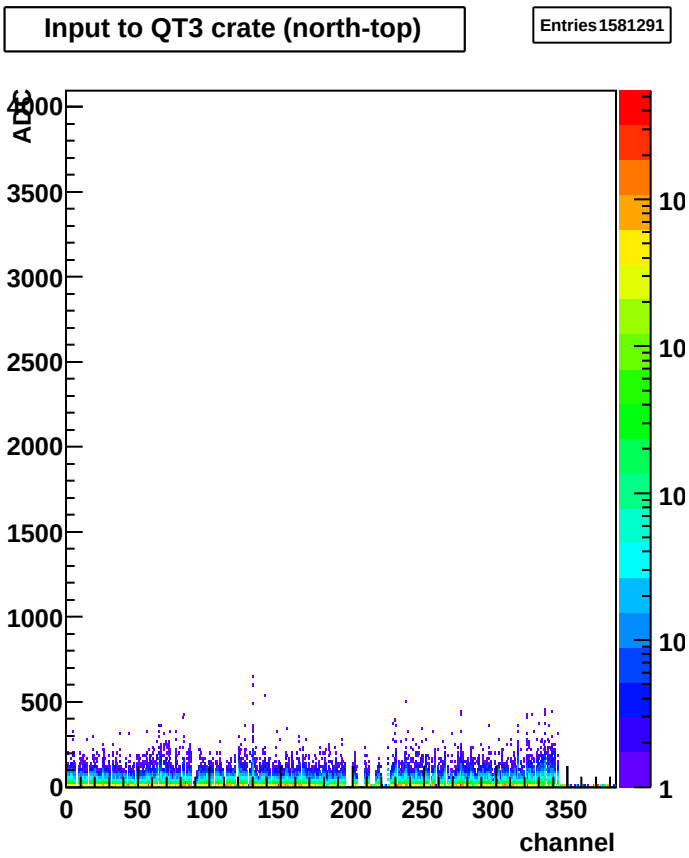

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 177843
Mean 4120
RMS 527.4

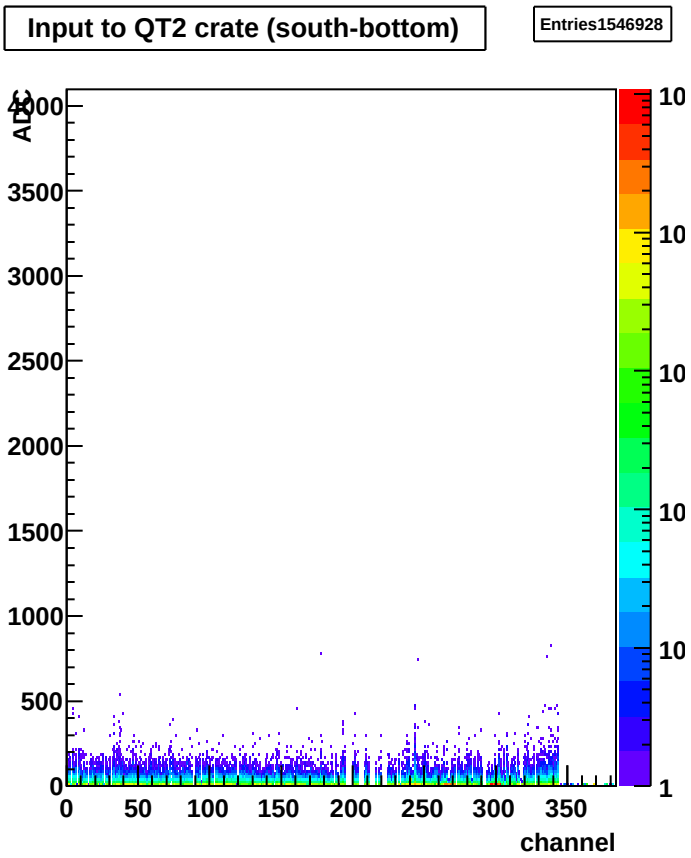

VPD-TAC-E
Entries 109343
Mean 1150
RMS 149.4

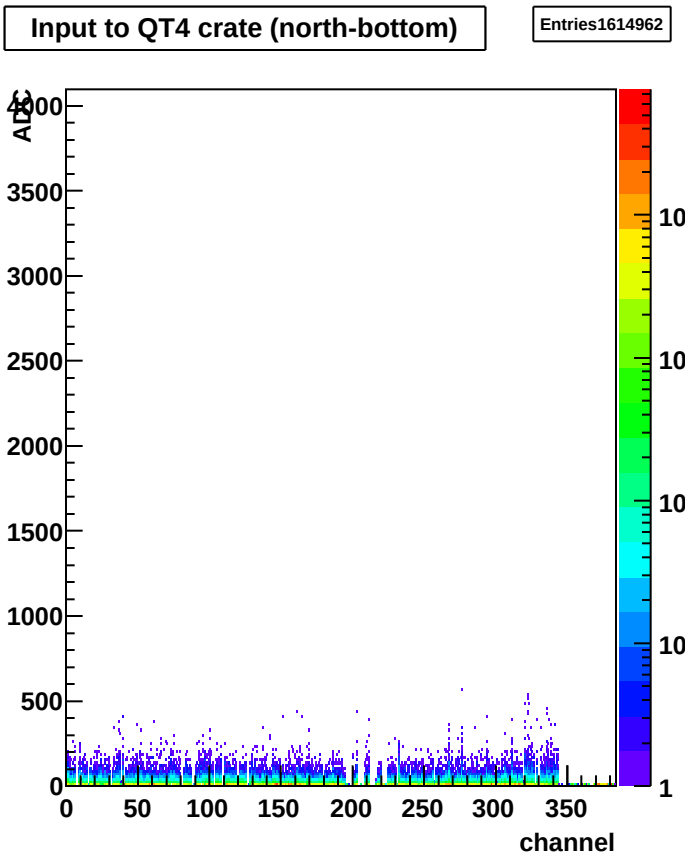

VPD-TAC-W
Entries 110219
Mean 1269
RMS 161.5

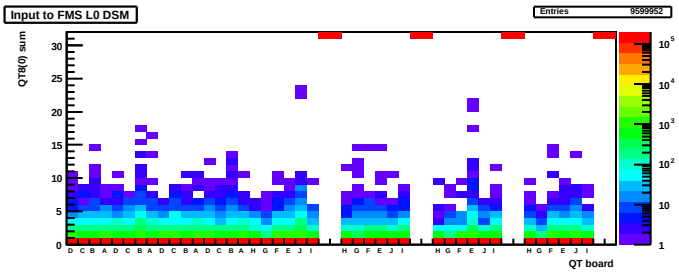

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 63679
Mean 3978
RMS 201

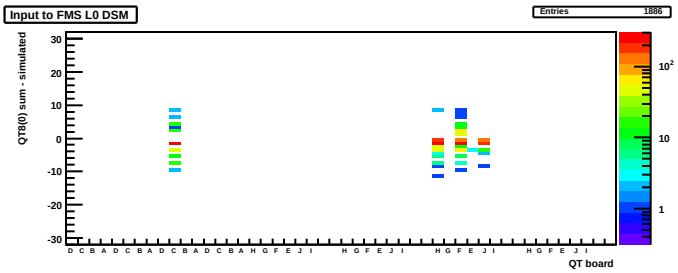

Input to QT1 crate (south-top)
Entries2741320
ADC
channel

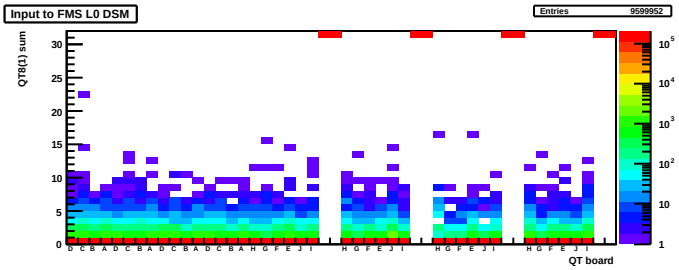

Input to QT3 crate (north-top)
Entries1581291
ADC
channel

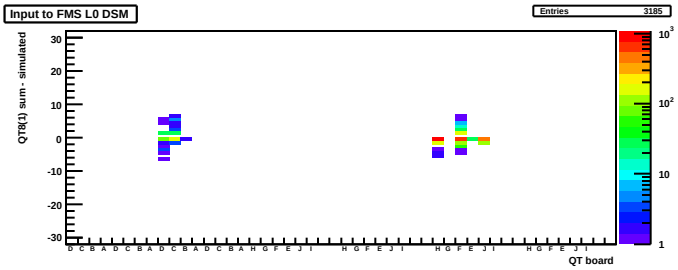

Input to QT2 crate (south-bottom)
Entries1546928
ADC
channel

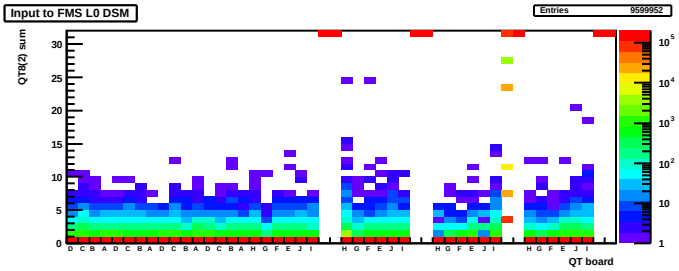

Input to QT4 crate (north-bottom)
Entries1614962
ADC
channel

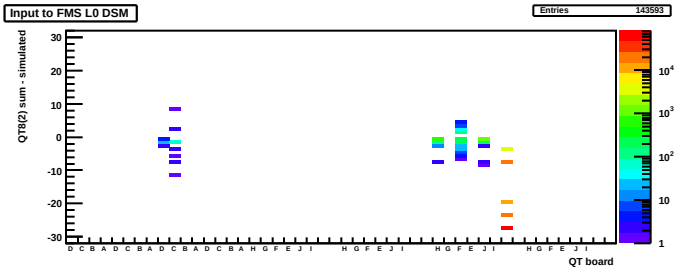

Input to FMS L0 DSM
Entries 9599952
QT8(0) sum
QT board

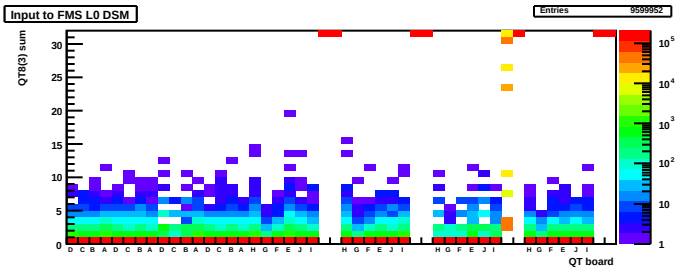

Input to FMS L0 DSM
Entries 1886
QT8(0) sum - simulated
QT board

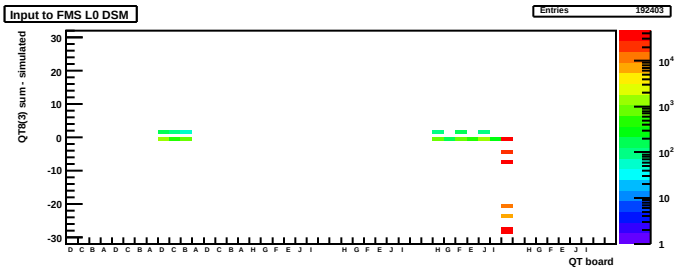

Input to FMS L0 DSM
Entries 9599952
QT8(1) sum
QT board

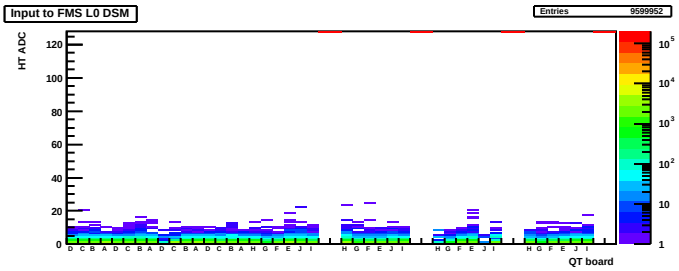

Input to FMS L0 DSM
Entries 3185
QT8(1) sum - simulated
QT board

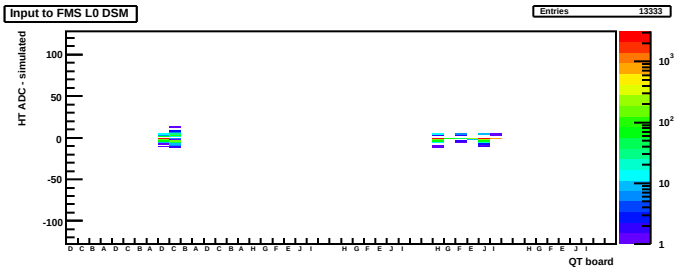

Input to FMS L0 DSM
Entries 9599952
QT8(2) sum
QT board

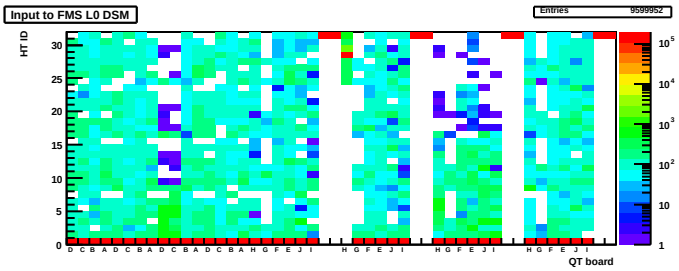

Input to FMS L0 DSM
Entries 143593
QT8(2) sum - simulated
QT board

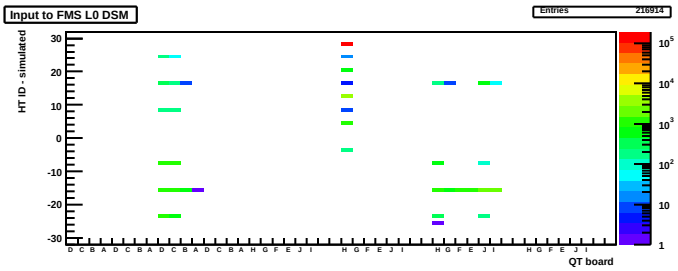

Input to FMS L0 DSM
Entries 9599952
QT8(3) sum
QT board

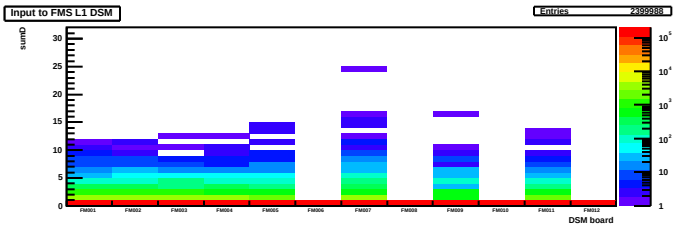

Input to FMS L0 DSM
Entries 192403
QT8(3) sum - simulated
QT board

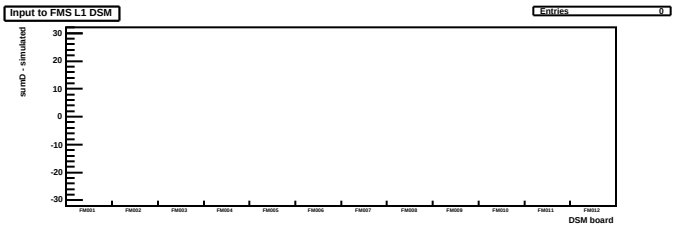

Input to FMS L0 DSM
Entries 9599952
HT ADC
QT board

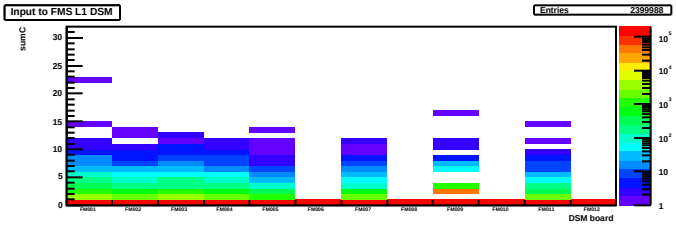

Input to FMS L0 DSM
Entries 13333
HT ADC - simulated
QT board

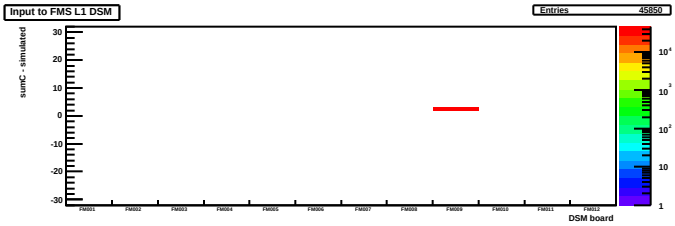

Input to FMS L0 DSM
Entries 9599952
HT ID
QT board

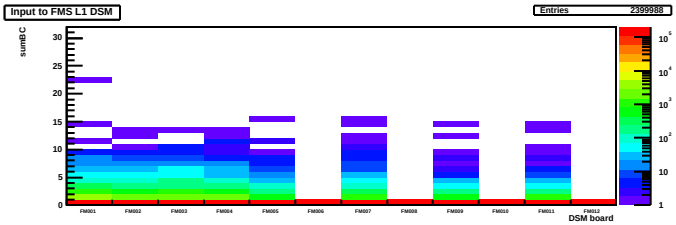

Input to FMS L0 DSM
Entries 216914
HT ID - simulated
QT board

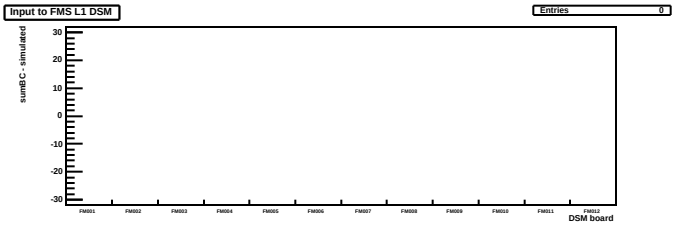

Input to FMS L1 DSM
Entries 2399988
sumD
DSM board

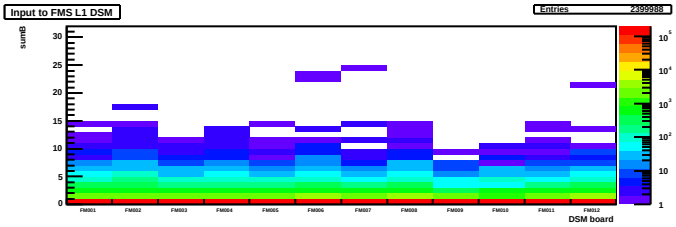

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

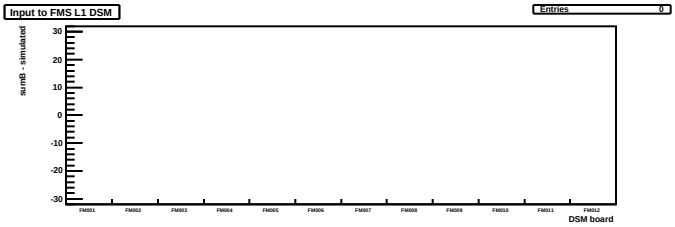

Input to FMS L1 DSM
Entries 2399988
sumC
DSM board

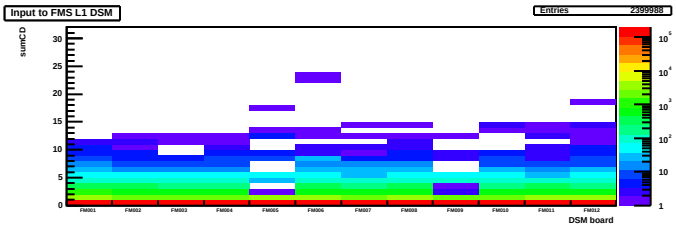

Input to FMS L1 DSM
Entries 45850
sumC - simulated
DSM board

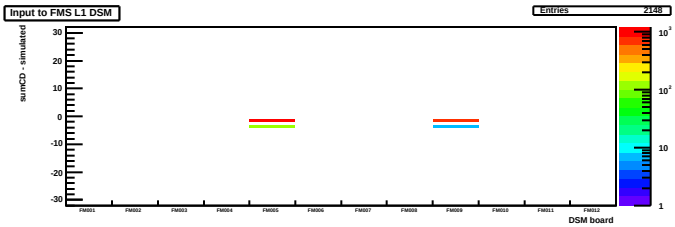

Input to FMS L1 DSM
Entries 2399988
sumBC
DSM board

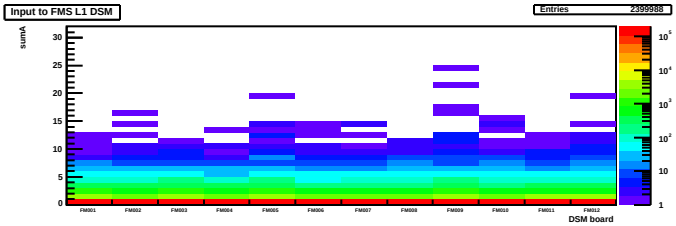

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

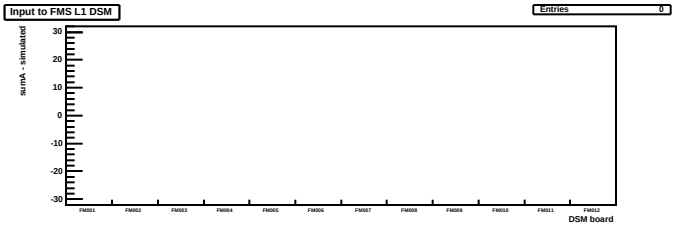

Input to FMS L1 DSM
Entries 2399988
sumB
DSM board

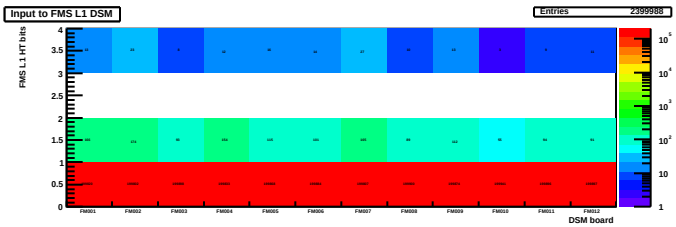

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

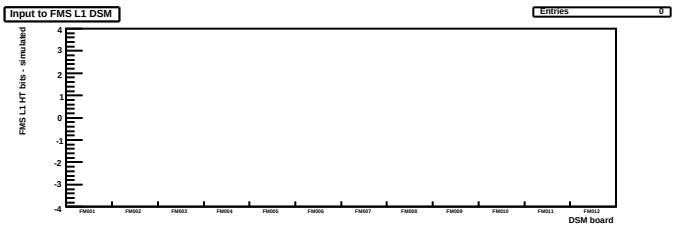

Input to FMS L1 DSM
Entries 2399988
sumCD
DSM board

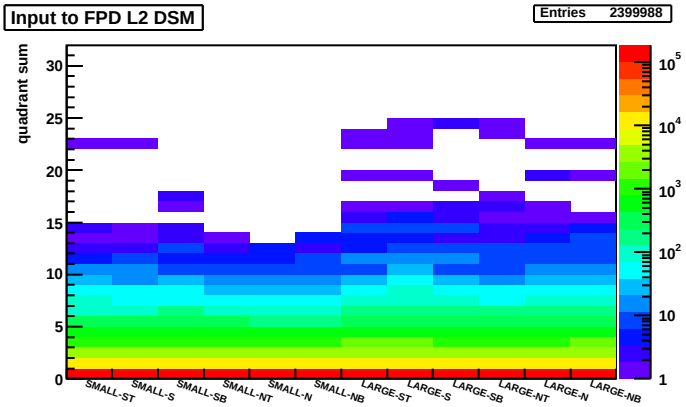

Input to FMS L1 DSM
Entries 2148
sumCD - simulated
DSM board

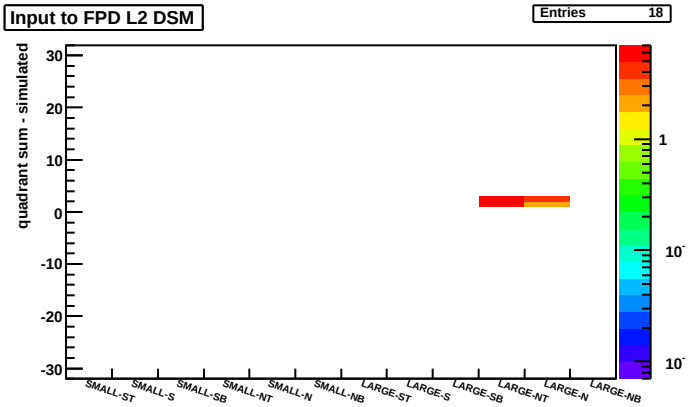

Input to FMS L1 DSM
Entries 2399988
sumA
DSM board

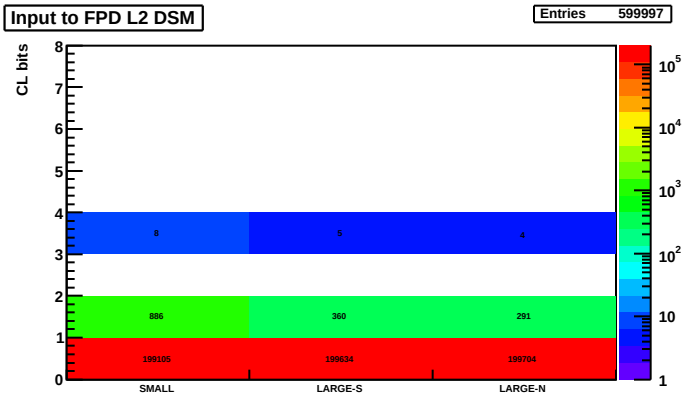

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

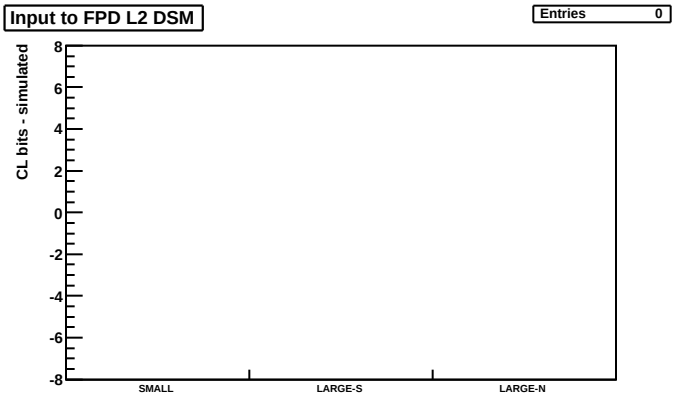

Input to FMS L1 DSM
Entries 2399988
FMS L1 HT bits
DSM board

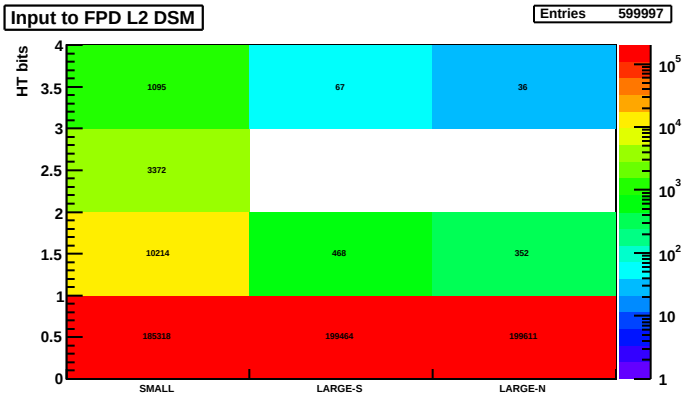

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

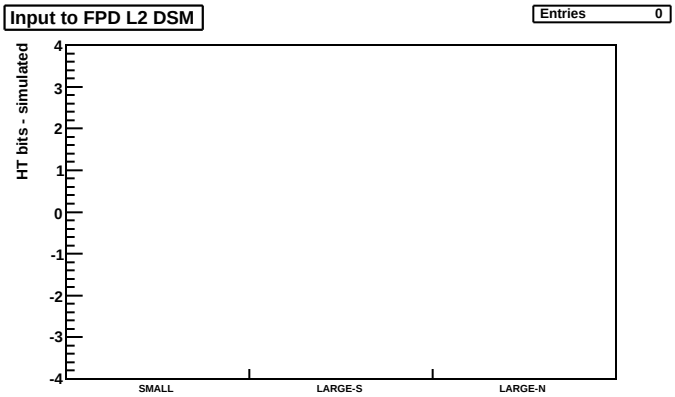

Input to FPD L2 DSM
Entries 2399988
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

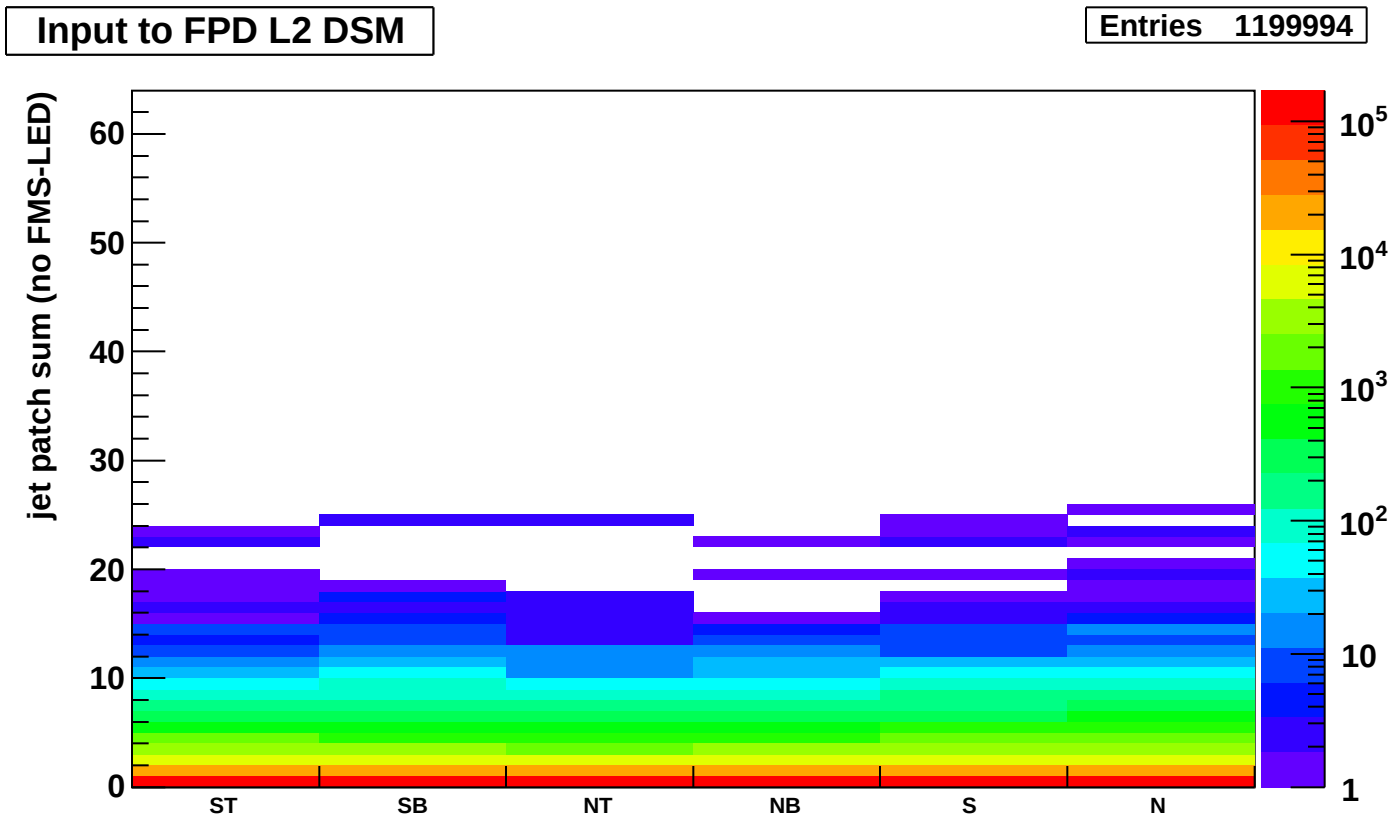

Input to FPD L2 DSM
Entries 18
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

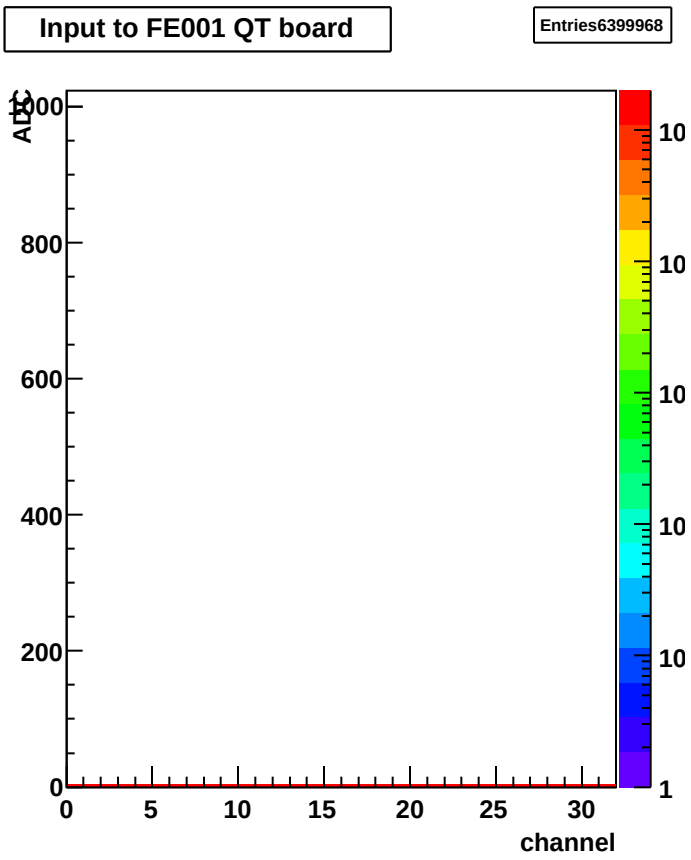

Input to FPD L2 DSM
Entries 599997
CL bits
8
5
4
886
360
291
199105
199634
199704
SMALL
LARGE-S
LARGE-N

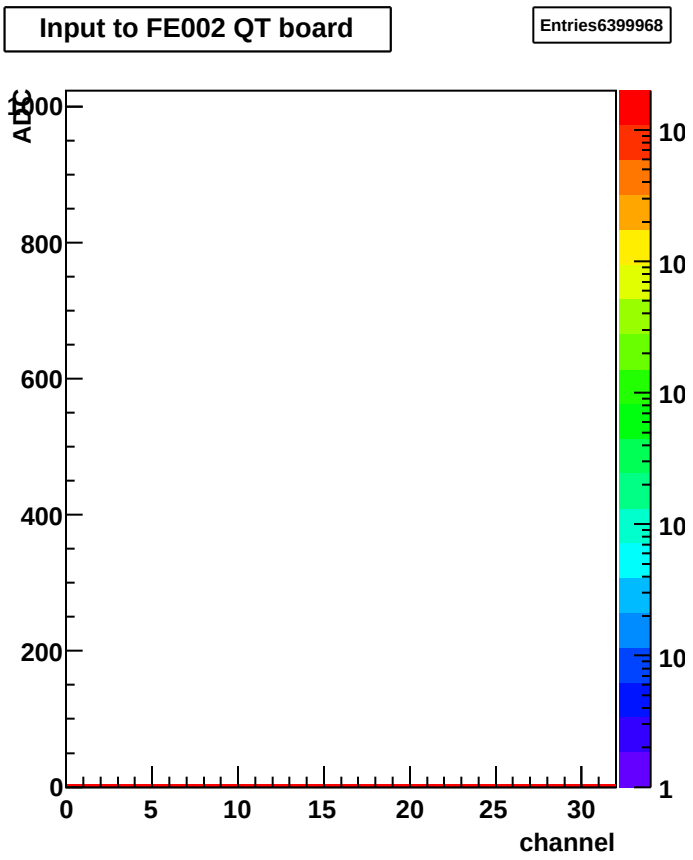

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

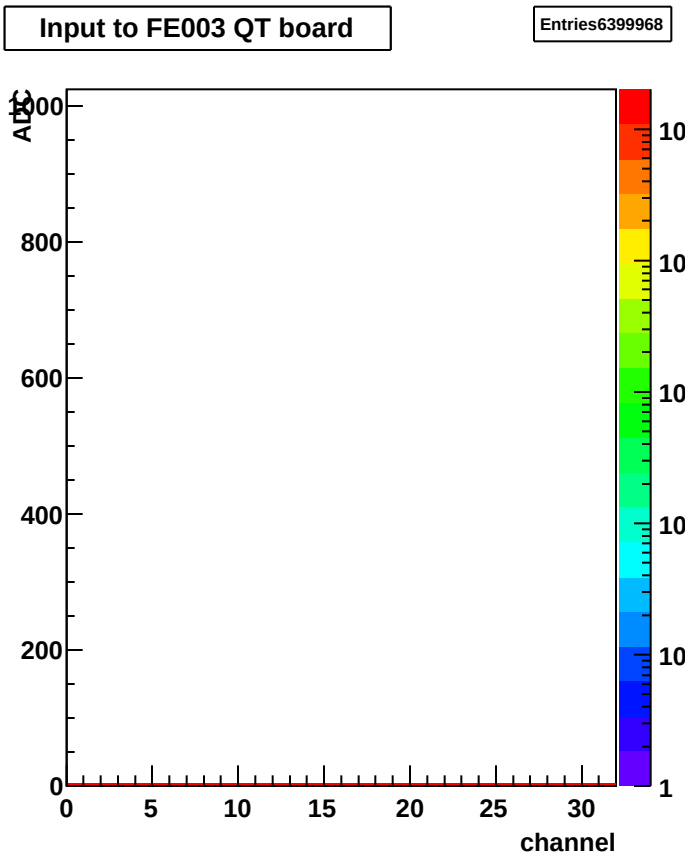

Input to FPD L2 DSM
Entries 599997
HT bits
1095
67
36
3372
10214
468
352
185318
199464
199611
SMALL
LARGE-S
LARGE-N

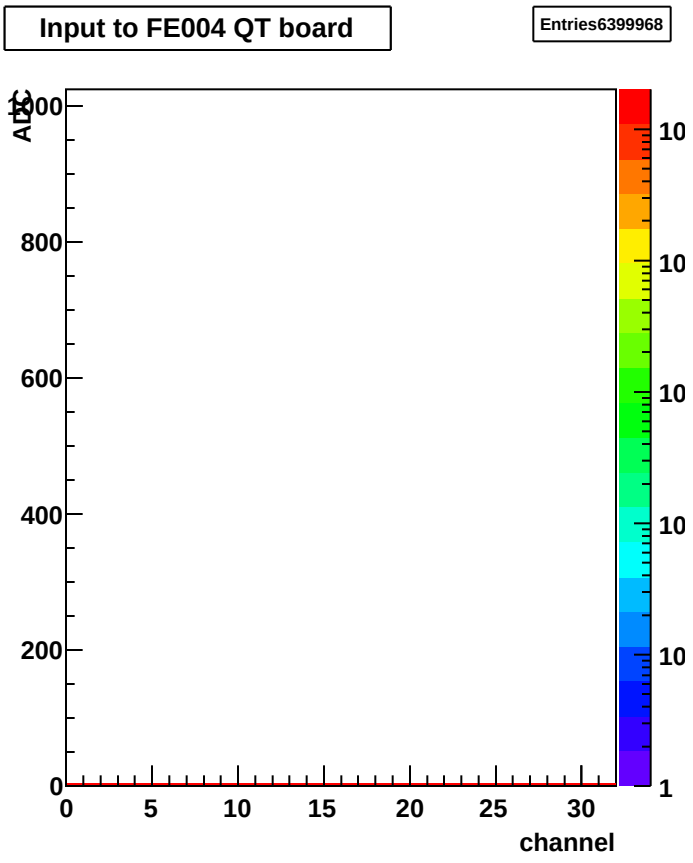

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

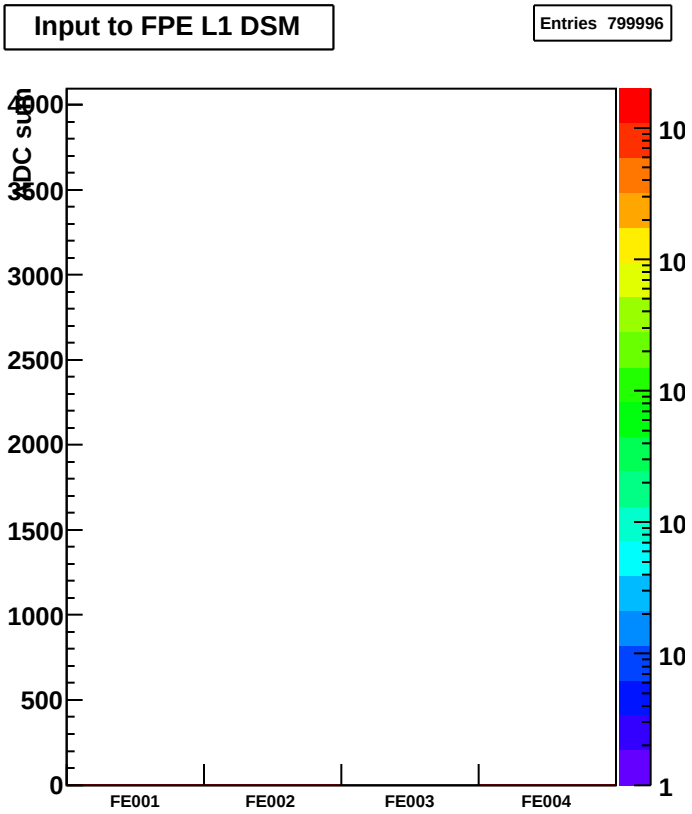

Input to FPD L2 DSM
Entries 1199994
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
$10^2$
$10^3$
$10^4$
$10^5$

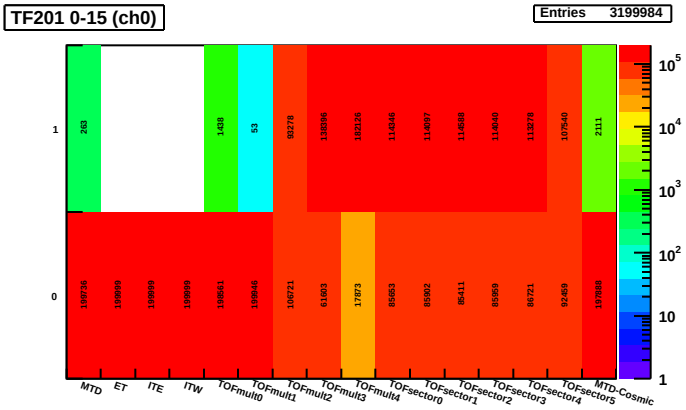

Input to FE001 QT board
Entries6399968
ADC
channel

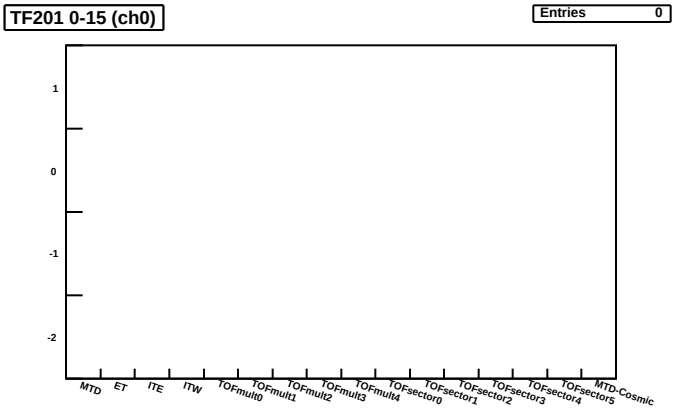

Input to FE002 QT board
Entries6399968
ADC
channel

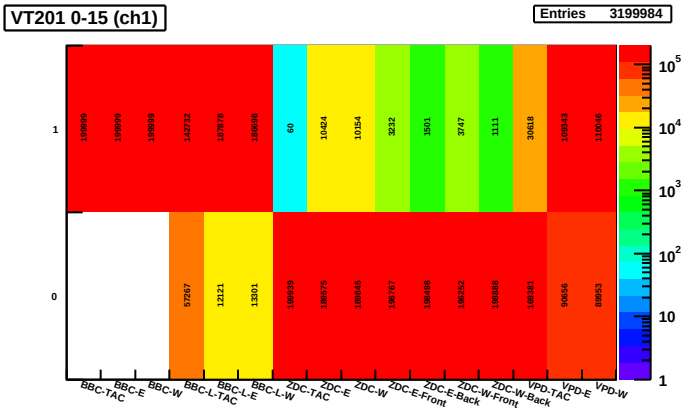

Input to FE003 QT board
Entries6399968
ADC
channel

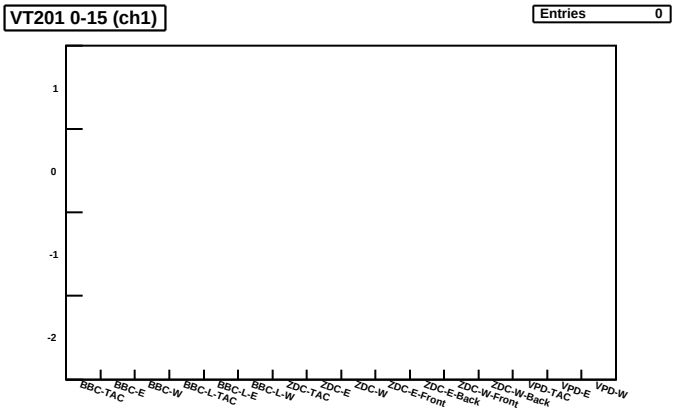

Input to FE004 QT board
Entries6399968
ADC
channel

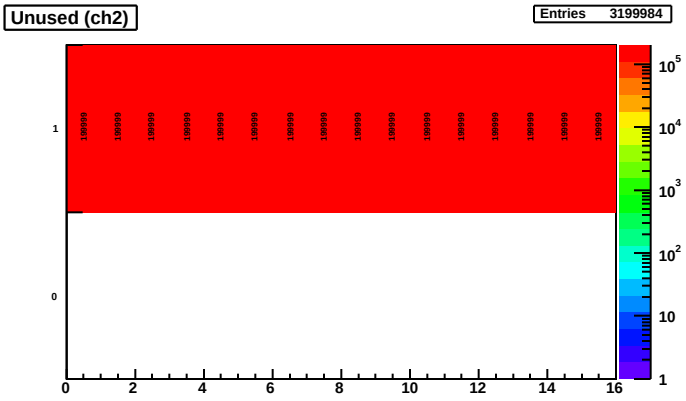

Input to FPE L1 DSM
Entries 799996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

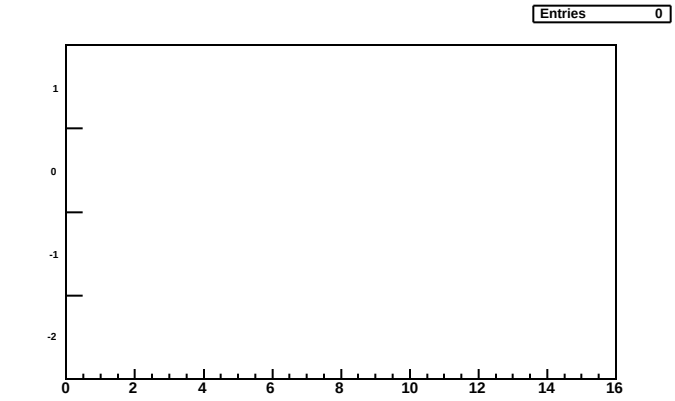

TF201 0-15 (ch0)
Entries 3199984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

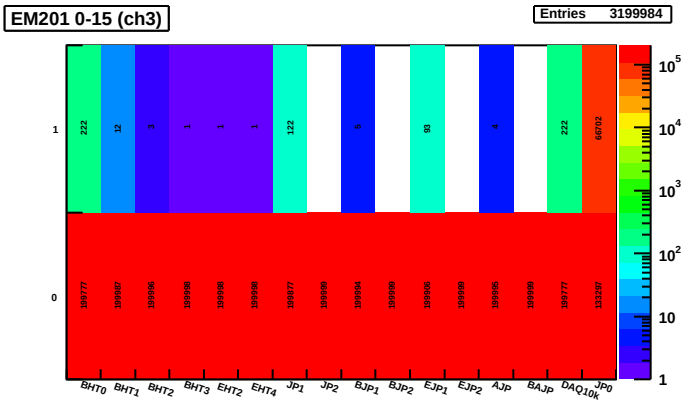

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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 0
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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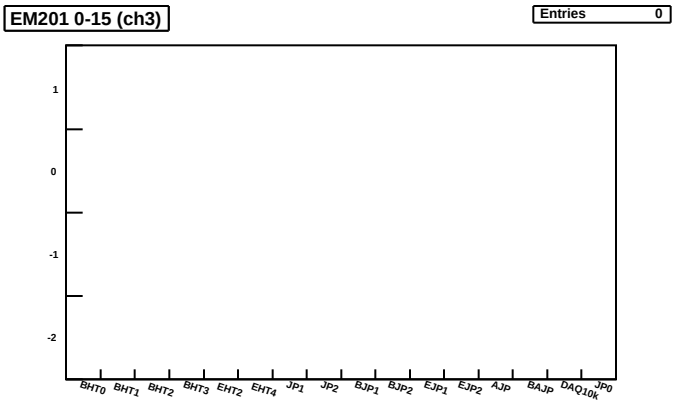
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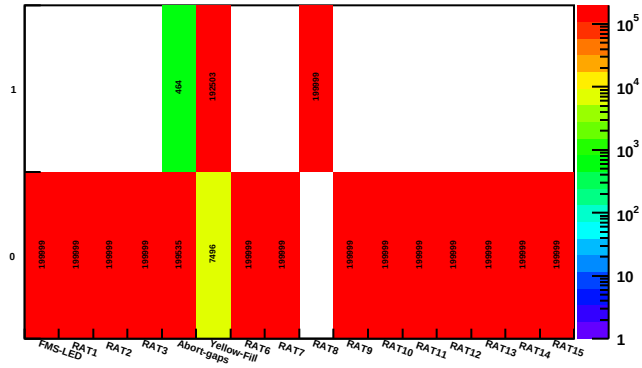
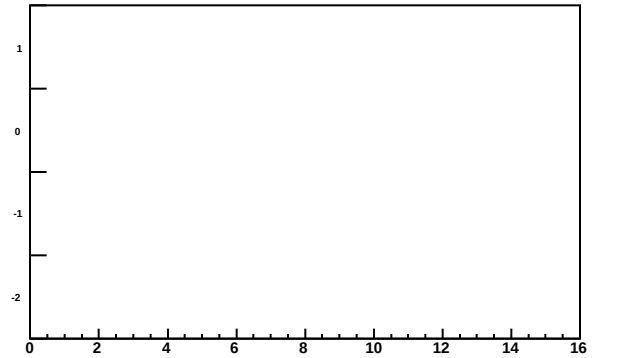
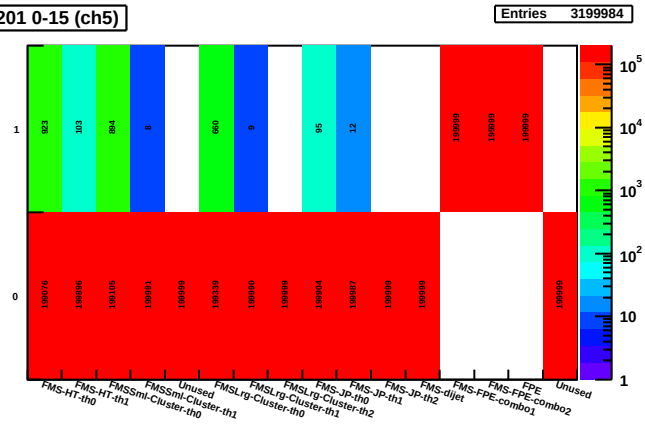
**RAT board (ch4)**

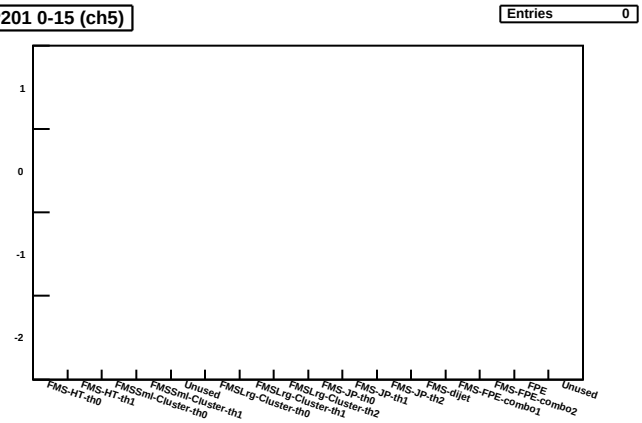


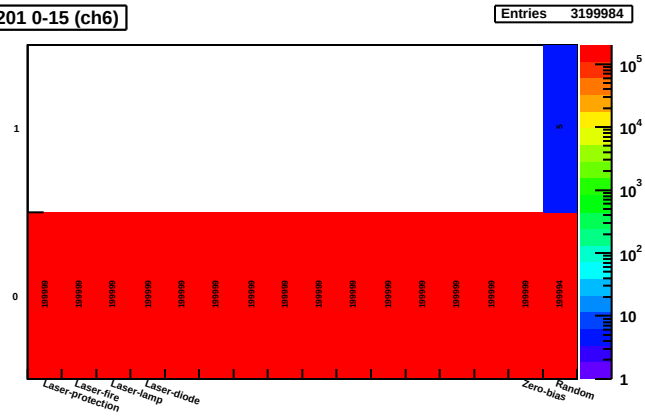

**FP201 0-15 (ch5)**

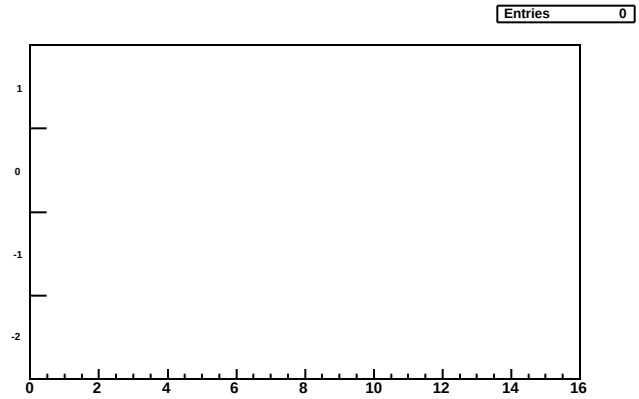


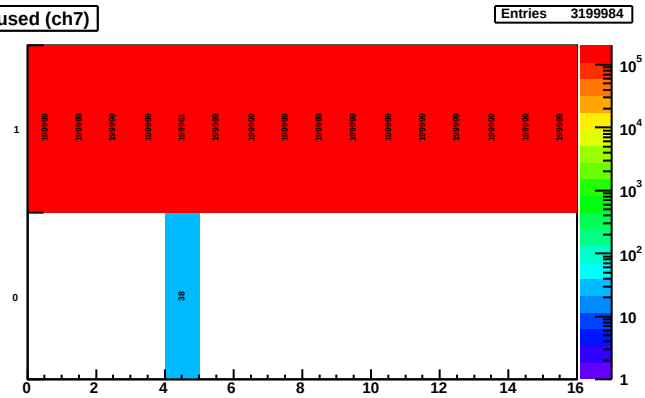
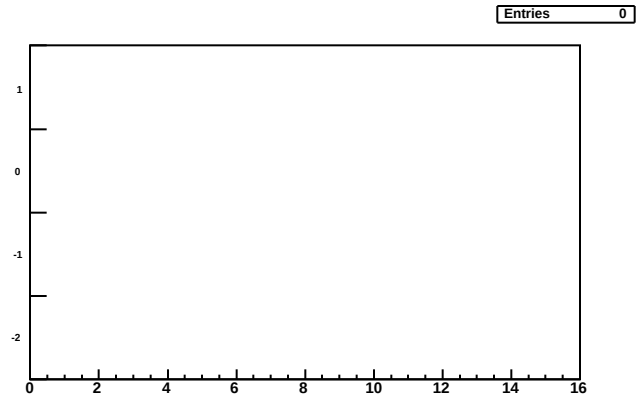

**FP201 0-15 (ch5)**




**ST201 0-15 (ch6)**




**Unused (ch7)**