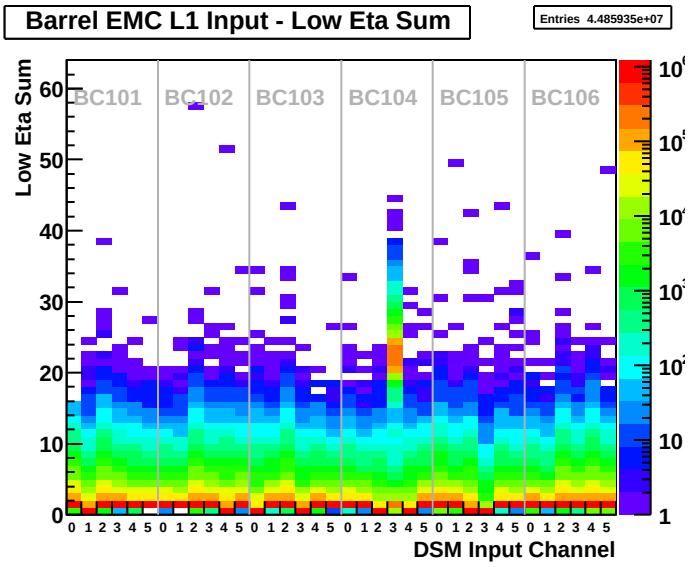
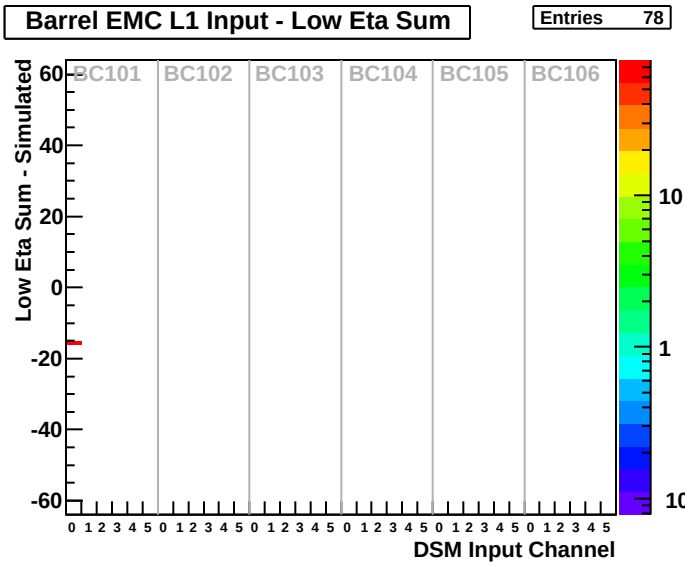
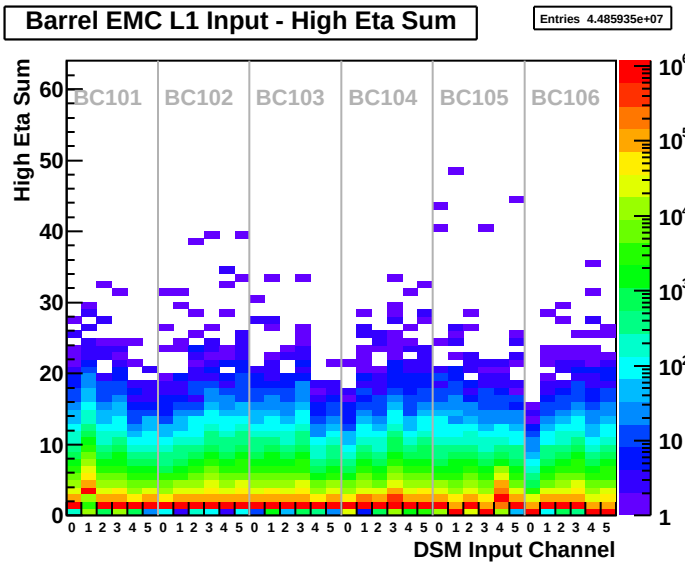
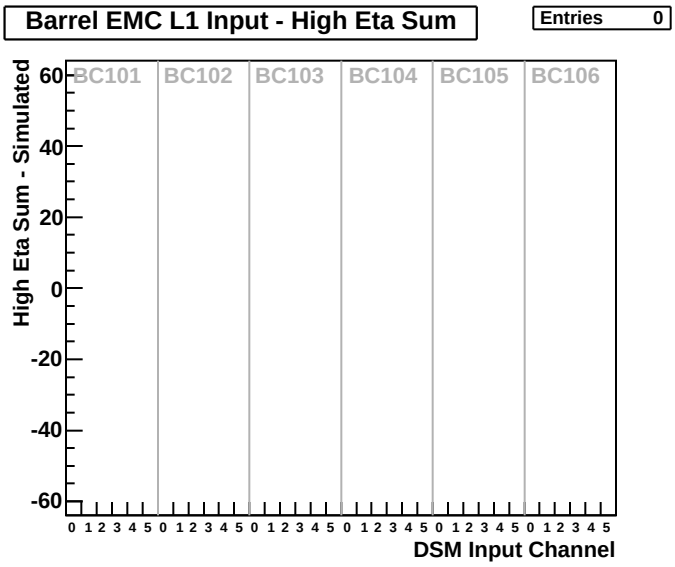
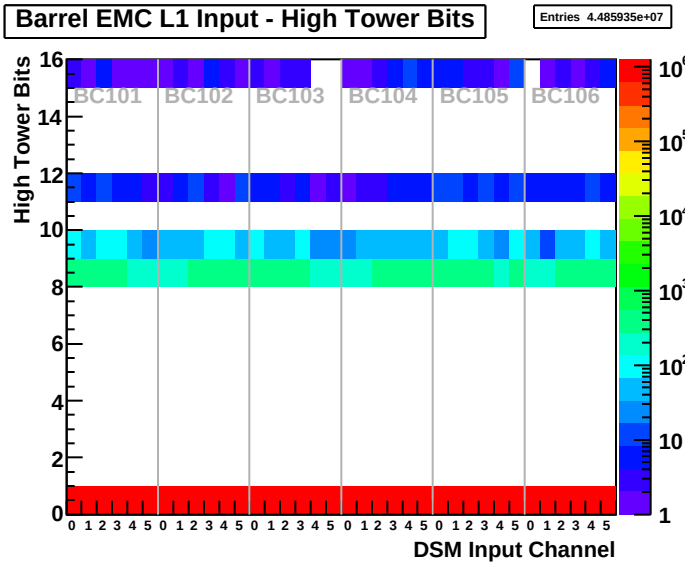
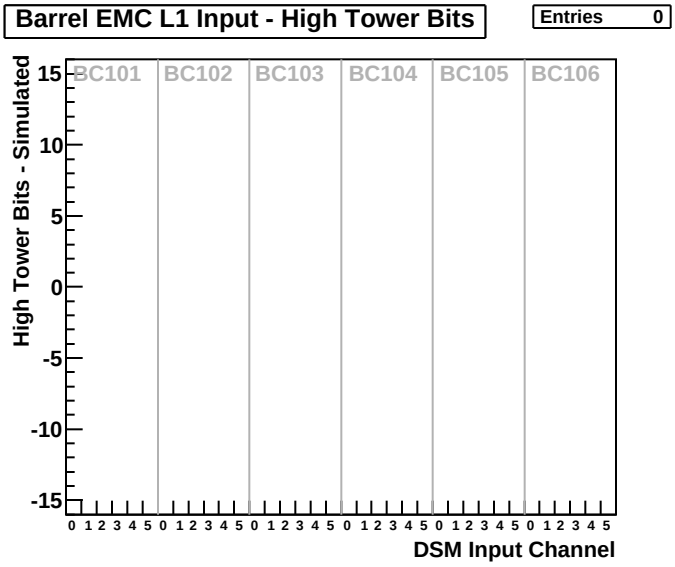

Barrel EMC L1 Input - Low Eta Sum
Entries 4.485935e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

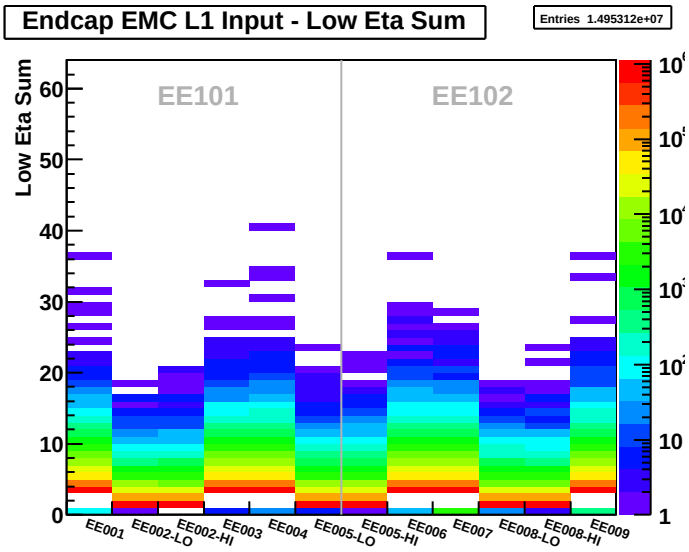

Barrel EMC L1 Input - Low Eta Sum
Entries 78
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

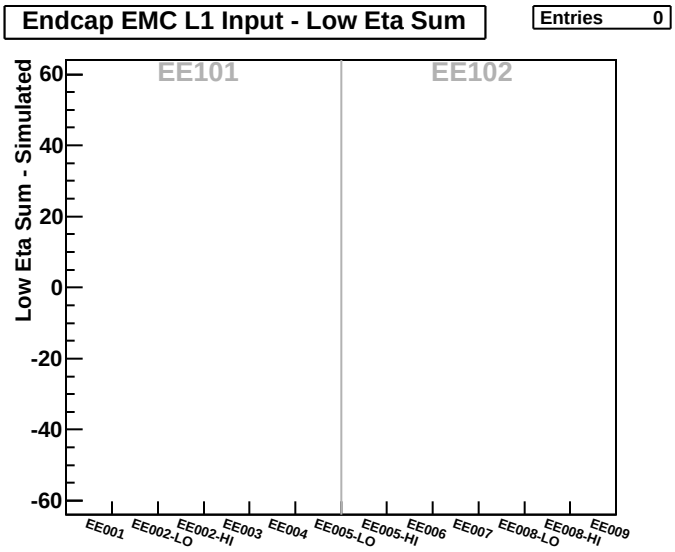

Barrel EMC L1 Input - High Eta Sum
Entries 4.485935e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

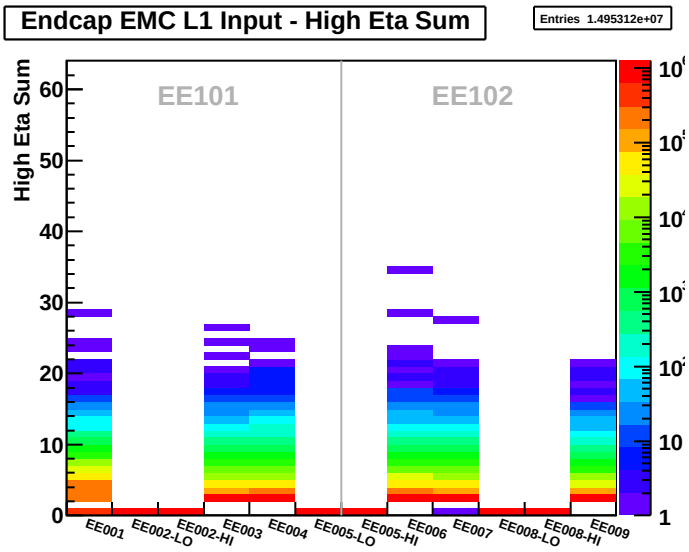

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

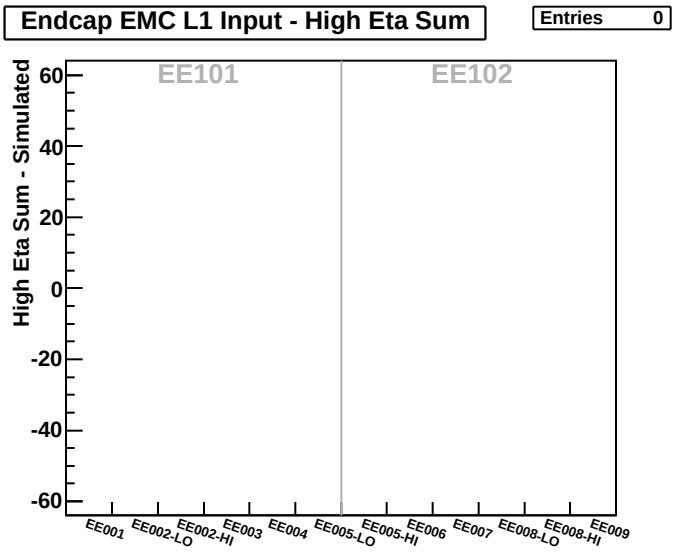

Barrel EMC L1 Input - High Tower Bits
Entries 4.485935e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

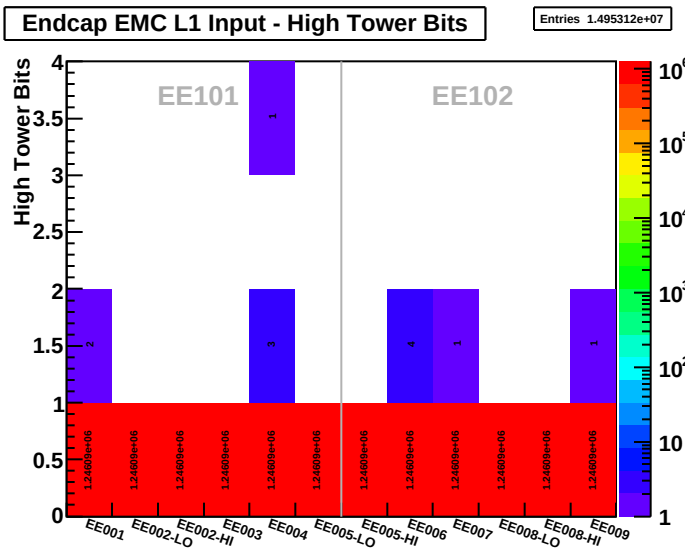

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

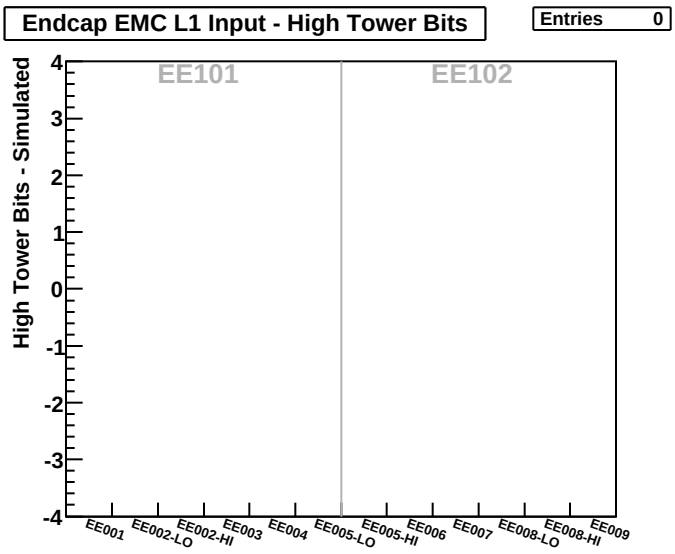

Endcap EMC L1 Input - Low Eta Sum
Entries 1.495312e+07
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

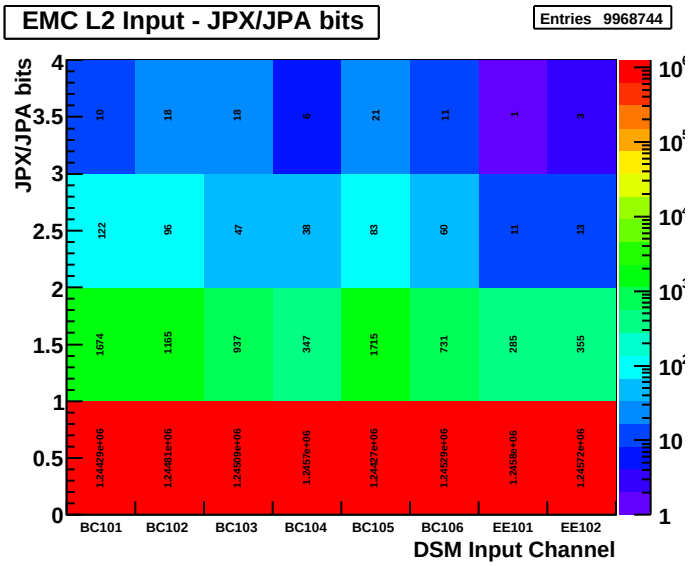

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

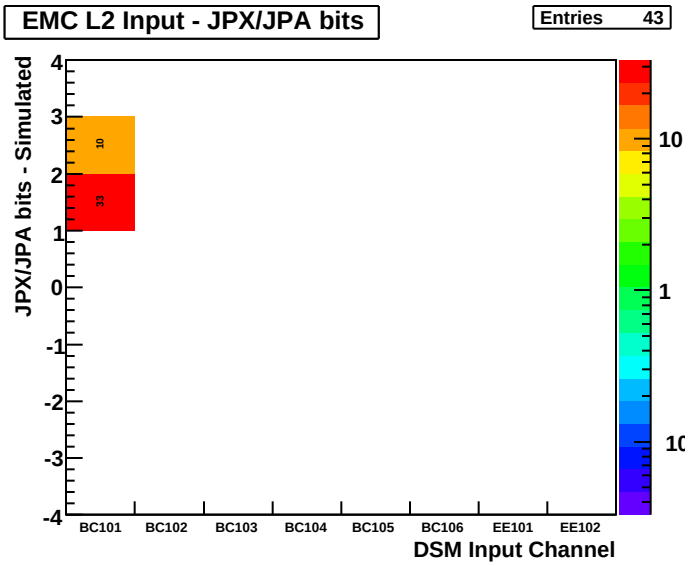

Endcap EMC L1 Input - High Eta Sum
Entries 1.495312e+07
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

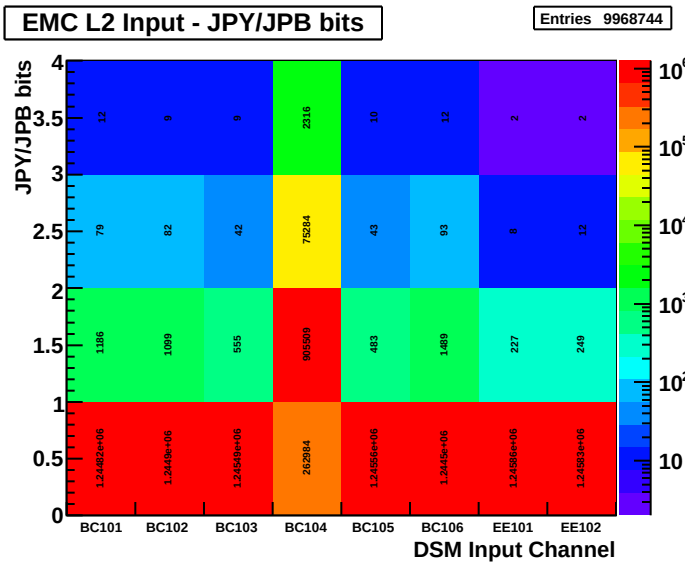

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

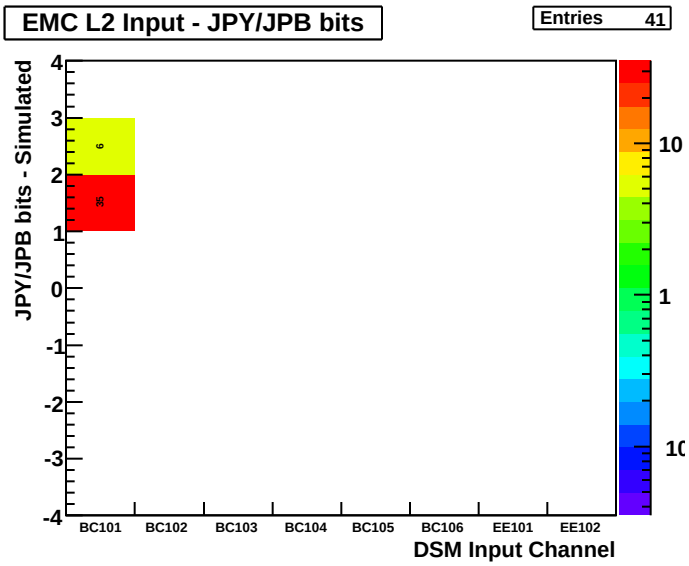

Endcap EMC L1 Input - High Tower Bits
Entries 1.495312e+07
High Tower Bits
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

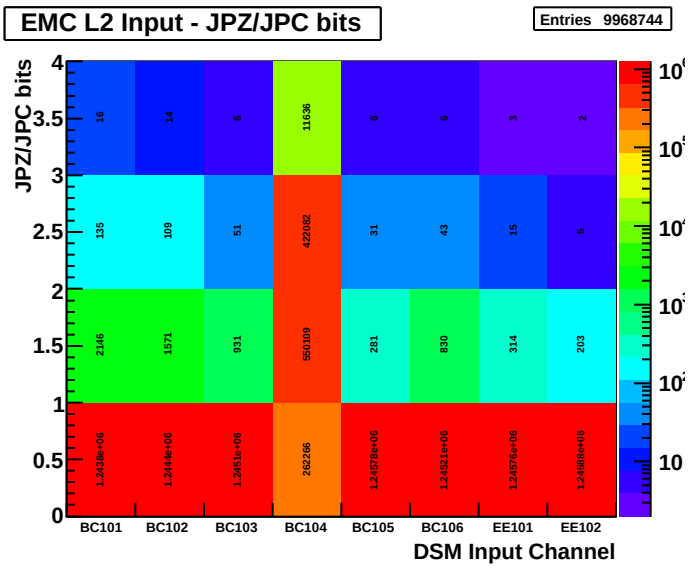

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

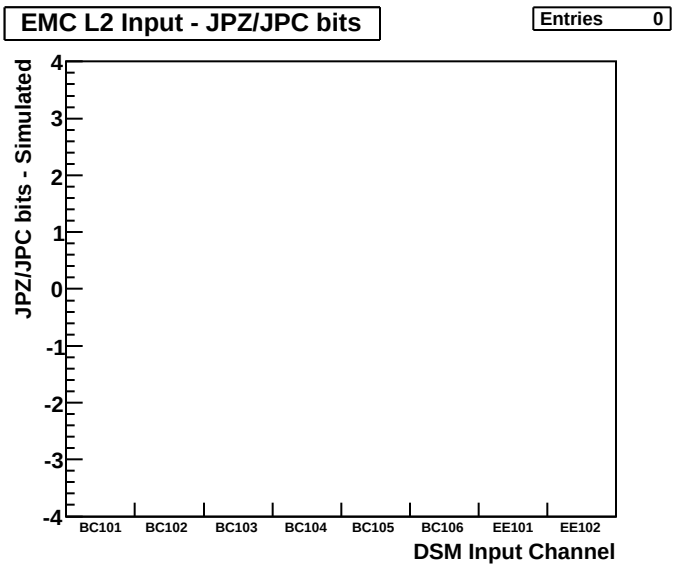

EMC L2 Input - JPX/JPA bits
Entries 9968744
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
10 18 18 6 21 11 1 3
122 96 47 38 83 60 11 13
1674 1165 937 347 1715 731 285 355
1.24429e+06 1.24481e+06 1.24509e+06 1.2457e+06 1.24427e+06 1.24529e+06 1.2458e+06 1.24572e+06

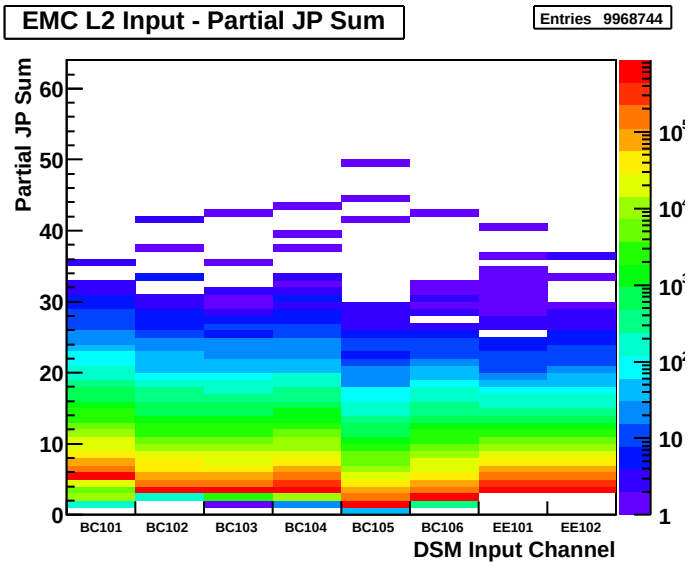

EMC L2 Input - JPX/JPA bits
Entries 43
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
10
33

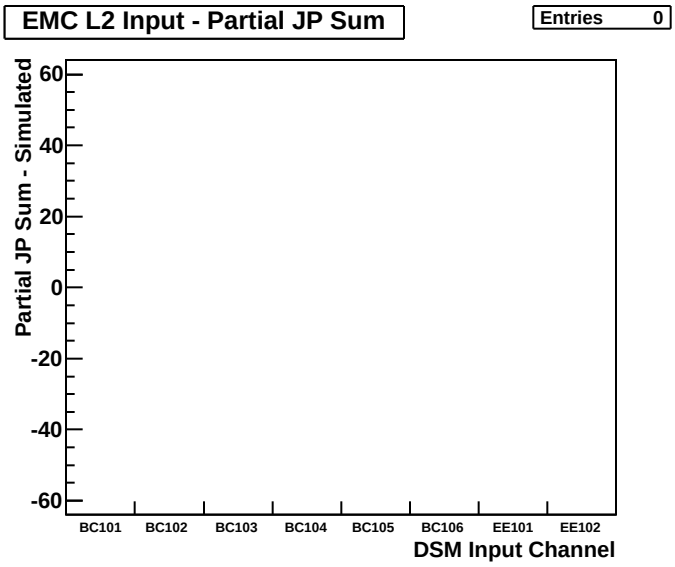

EMC L2 Input - JPY/JPB bits
Entries 9968744
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
12 9 9 2316 10 12 2 2
79 82 42 75284 43 93 8 12
1186 1099 555 905509 483 1489 227 249
1.24482e+06 1.2449e+06 1.24509e+06 262984 1.24556e+06 1.2445e+06 1.24586e+06 1.24583e+06

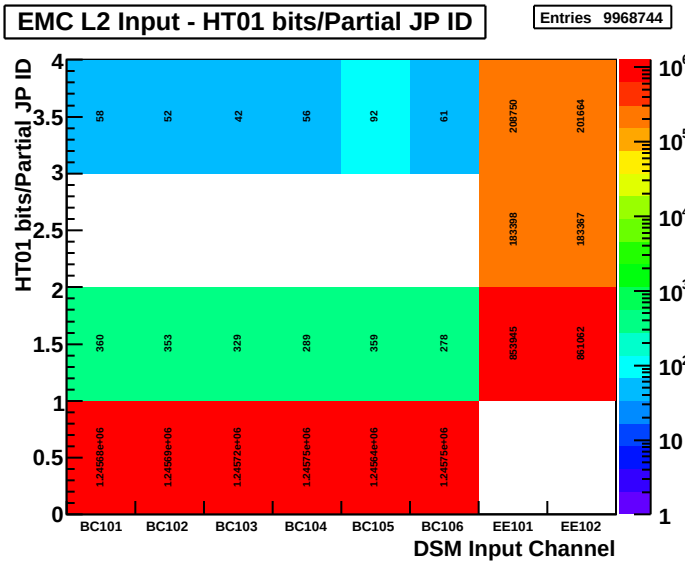

EMC L2 Input - JPY/JPB bits
Entries 41
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
6
35

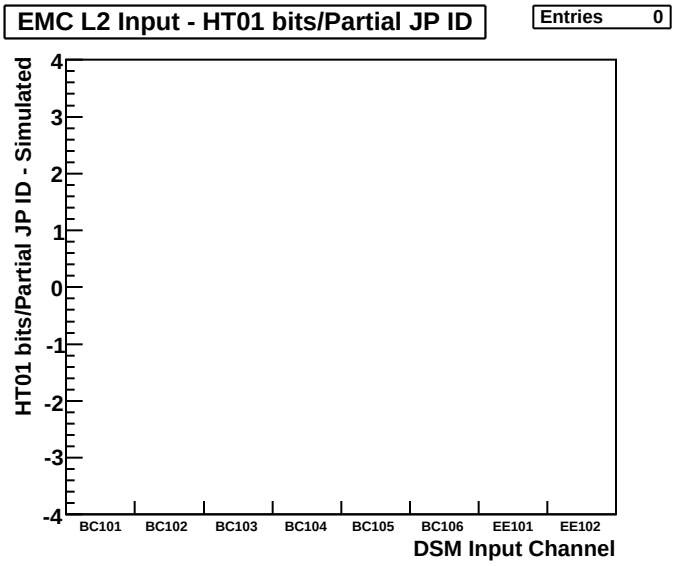

EMC L2 Input - JPZ/JPC bits
Entries 9968744
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
16 14 6 11636 6 6 3 2
135 109 51 422082 31 43 15 5
2146 1571 931 550109 281 830 314 203
1.2438e+06 1.2444e+06 1.2451e+06 262266 1.24578e+06 1.24521e+06 1.24576e+06 1.24588e+06

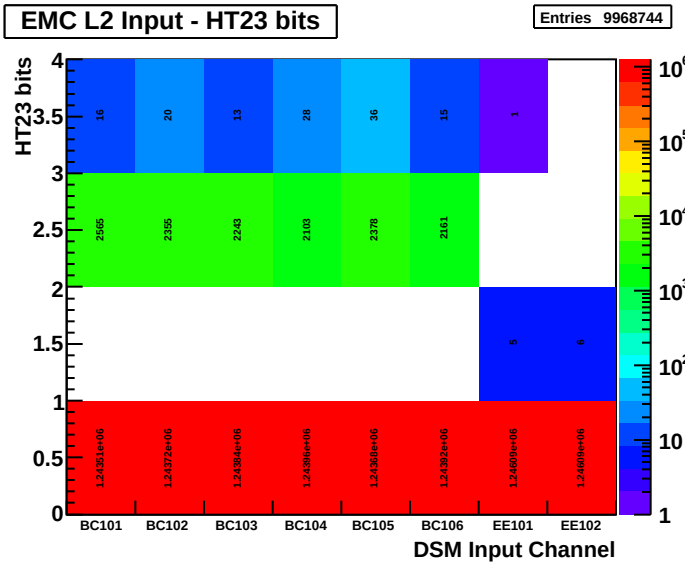

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

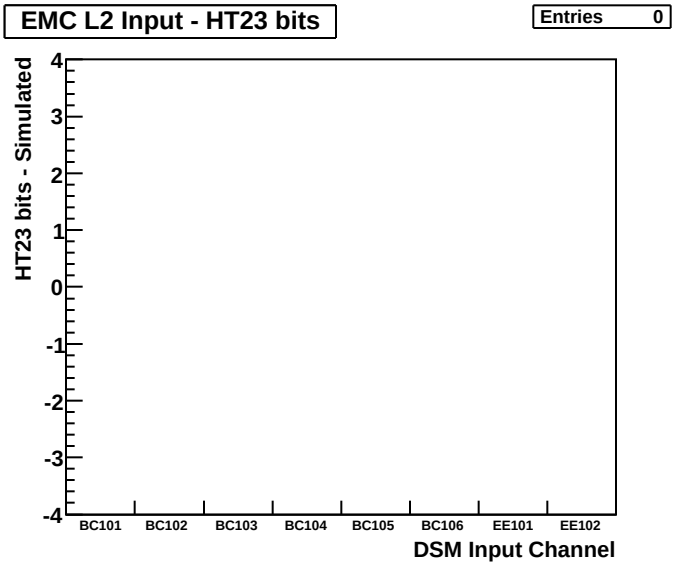

EMC L2 Input - Partial JP Sum
Entries 9968744
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

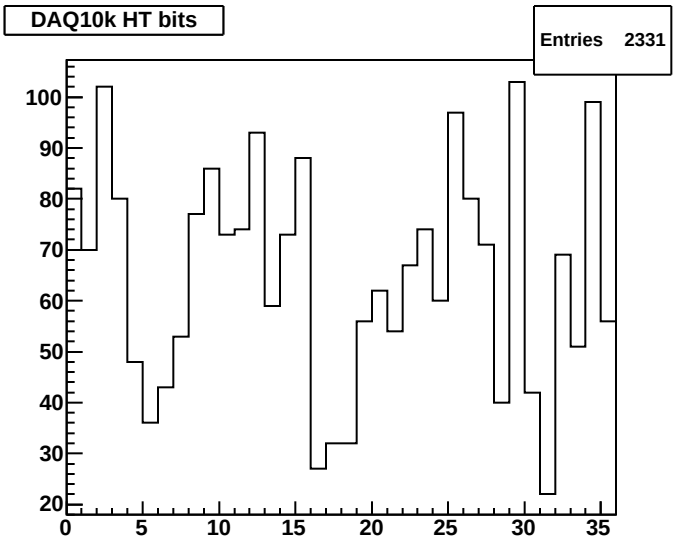

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

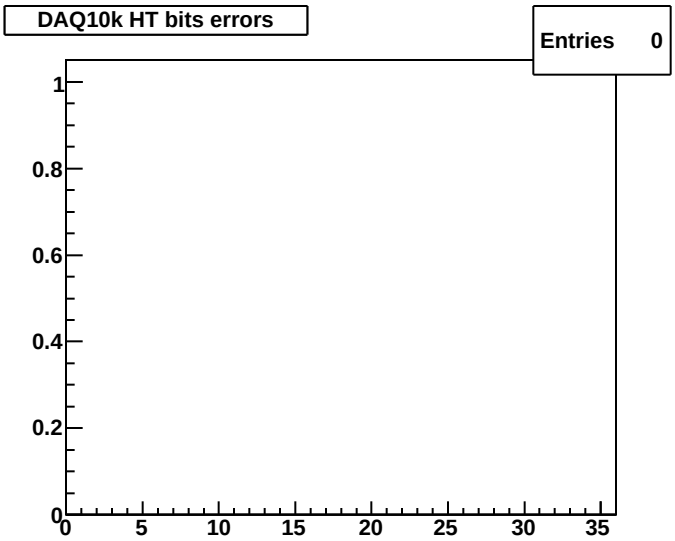

EMC L2 Input - HT01 bits/Partial JP ID
Entries 9968744
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

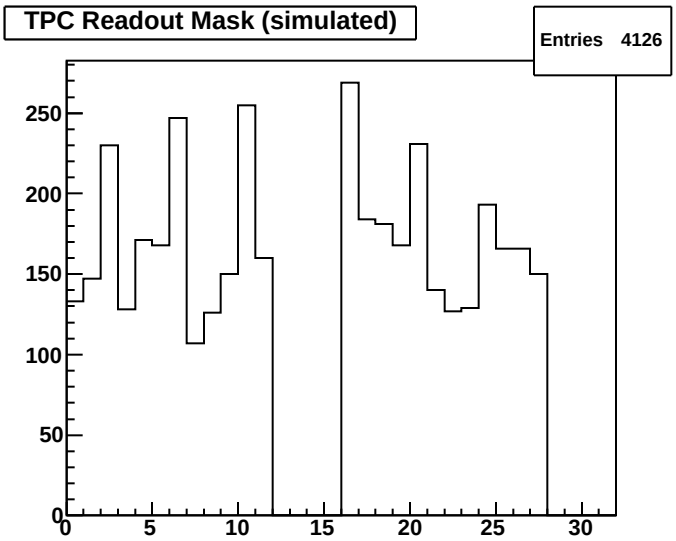

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

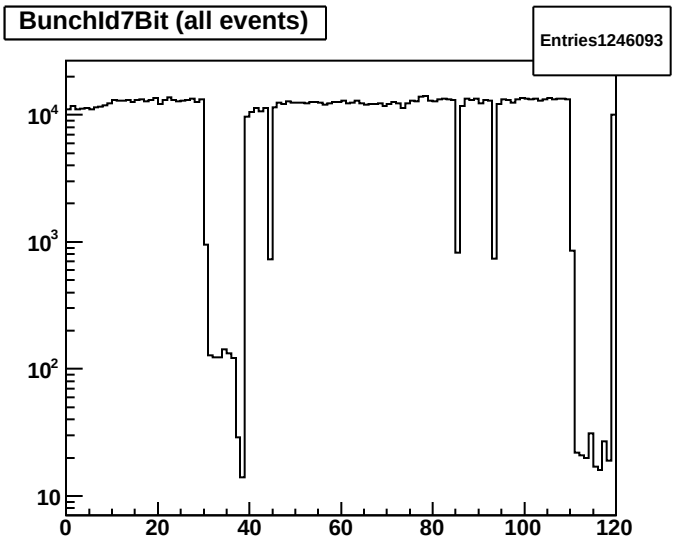

EMC L2 Input - HT23 bits
Entries 9968744
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

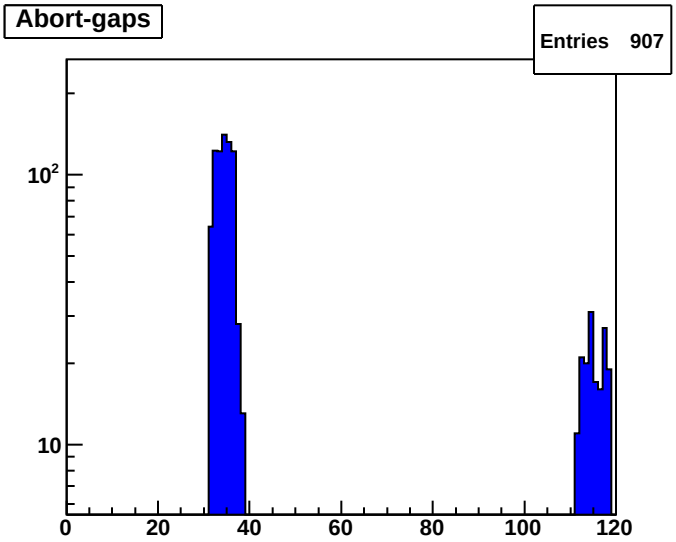

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

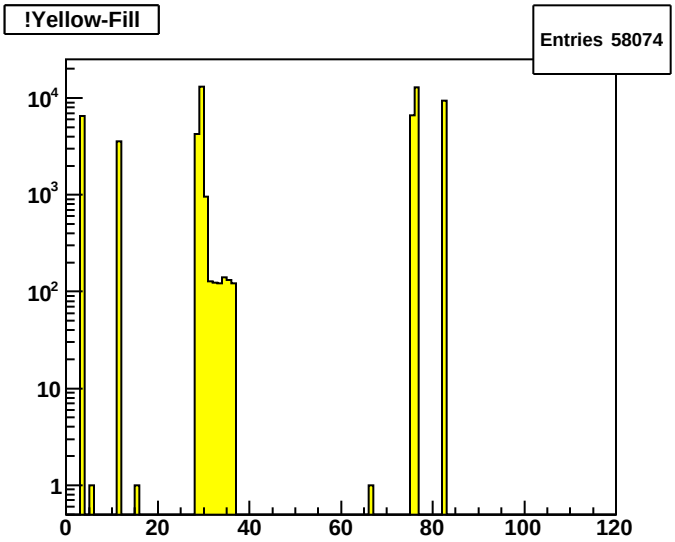

DAQ10k HT bits
Entries 2331

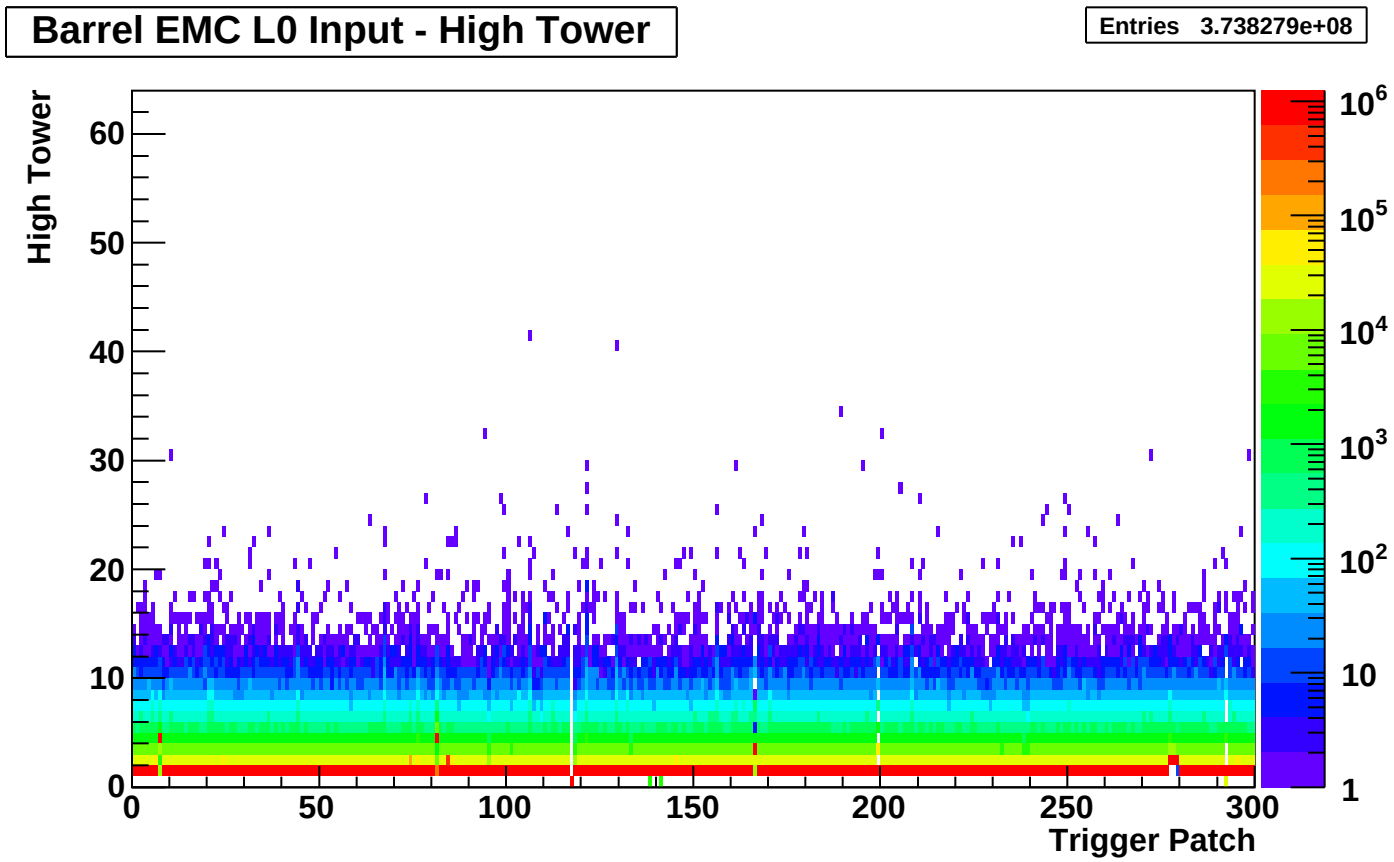

DAQ10k HT bits errors
Entries 0

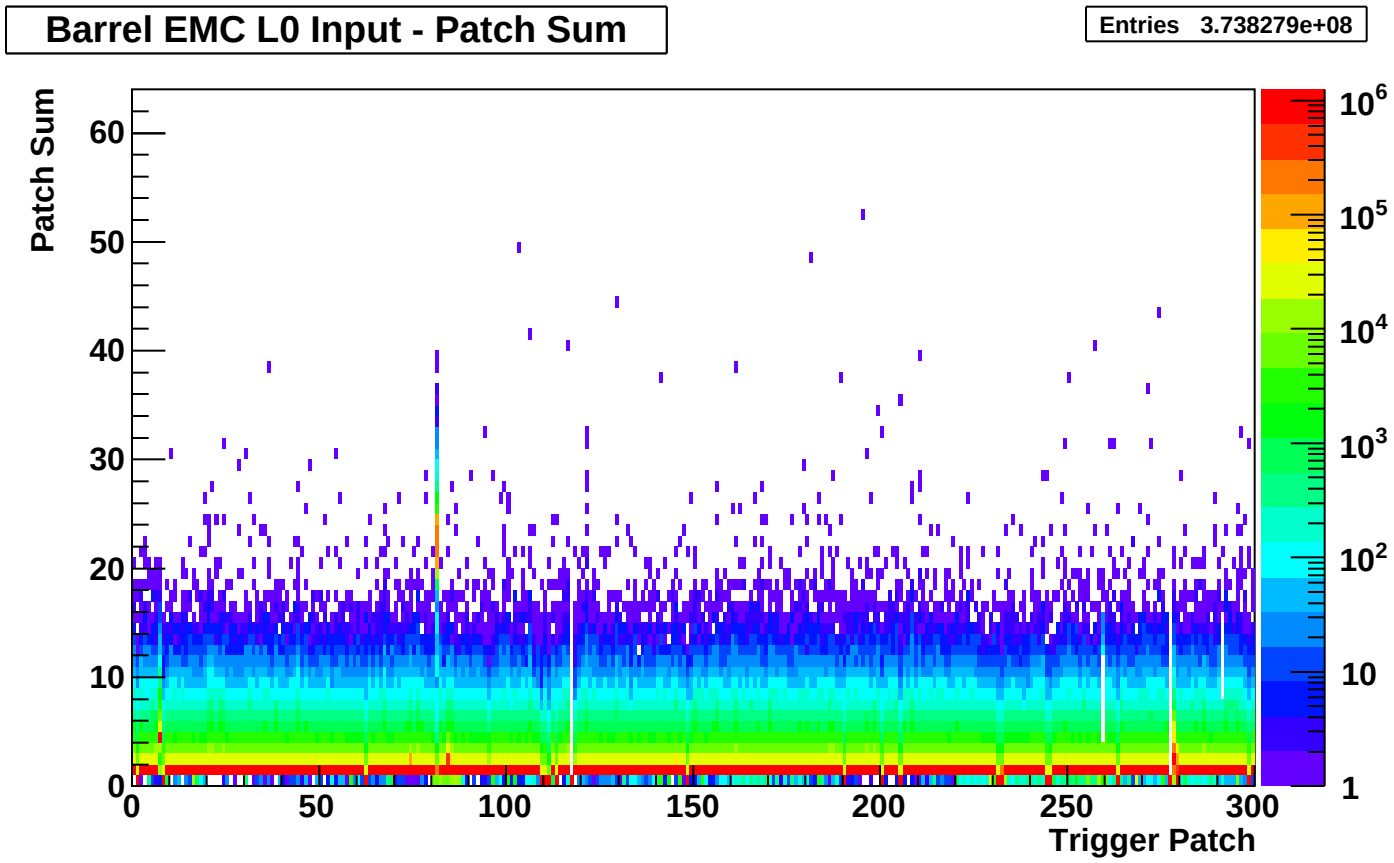

TPC Readout Mask (simulated)
Entries 4126

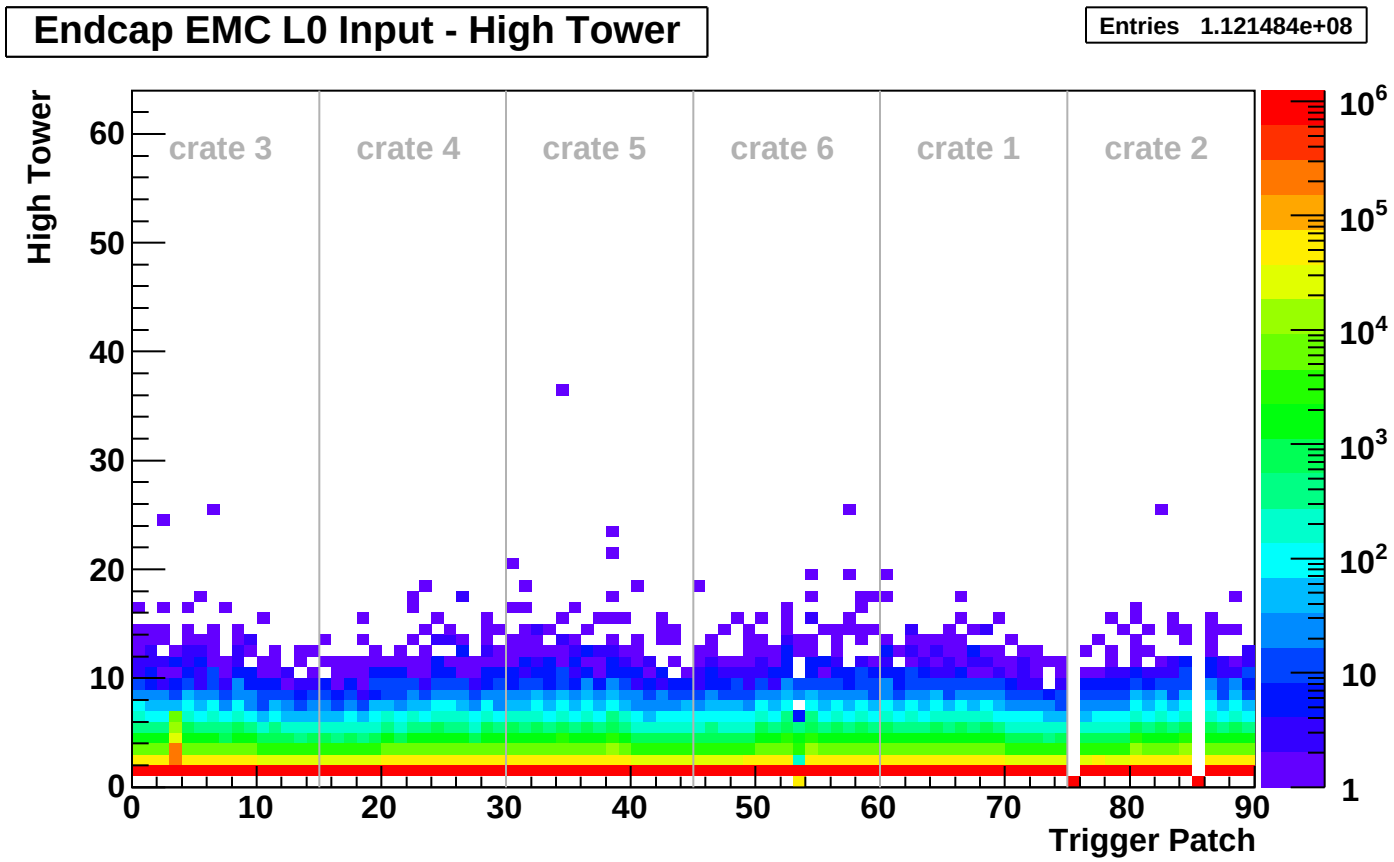

BunchId7Bit (all events)
Entries1246093

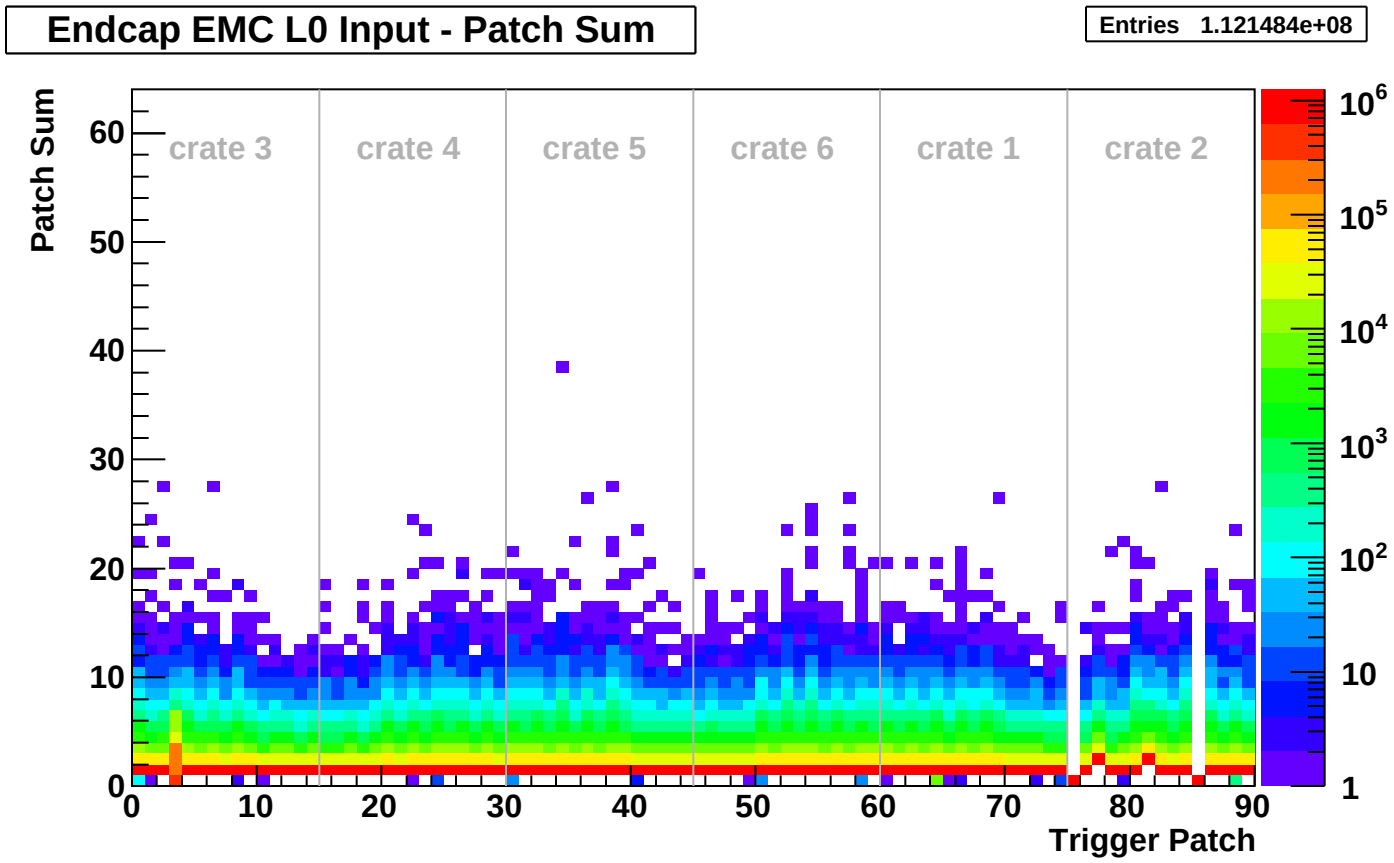

Abort-gaps
Entries 907

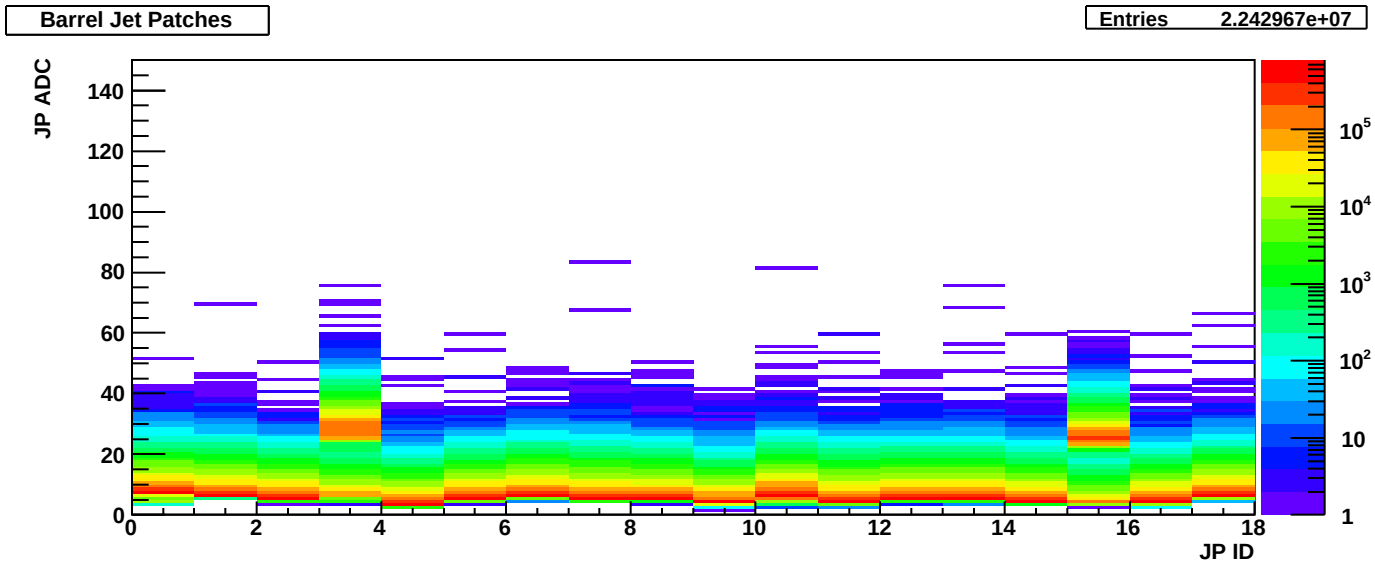

!Yellow-Fill
Entries 58074

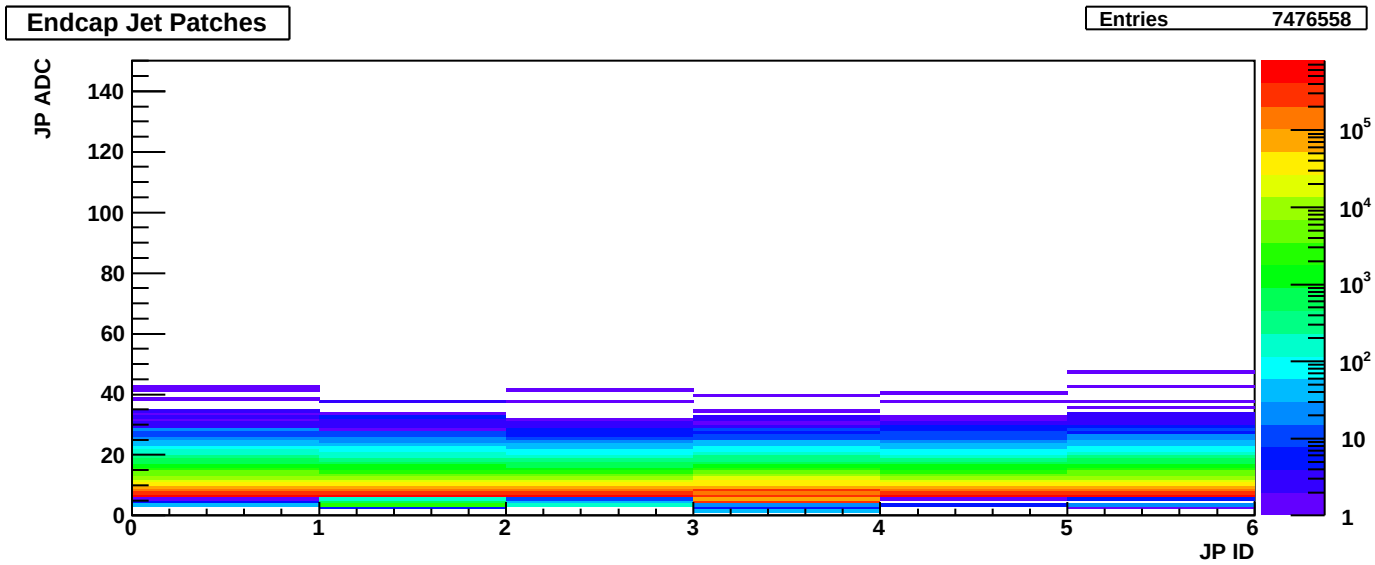

Barrel EMC L0 Input - High Tower
Entries 3.738279e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

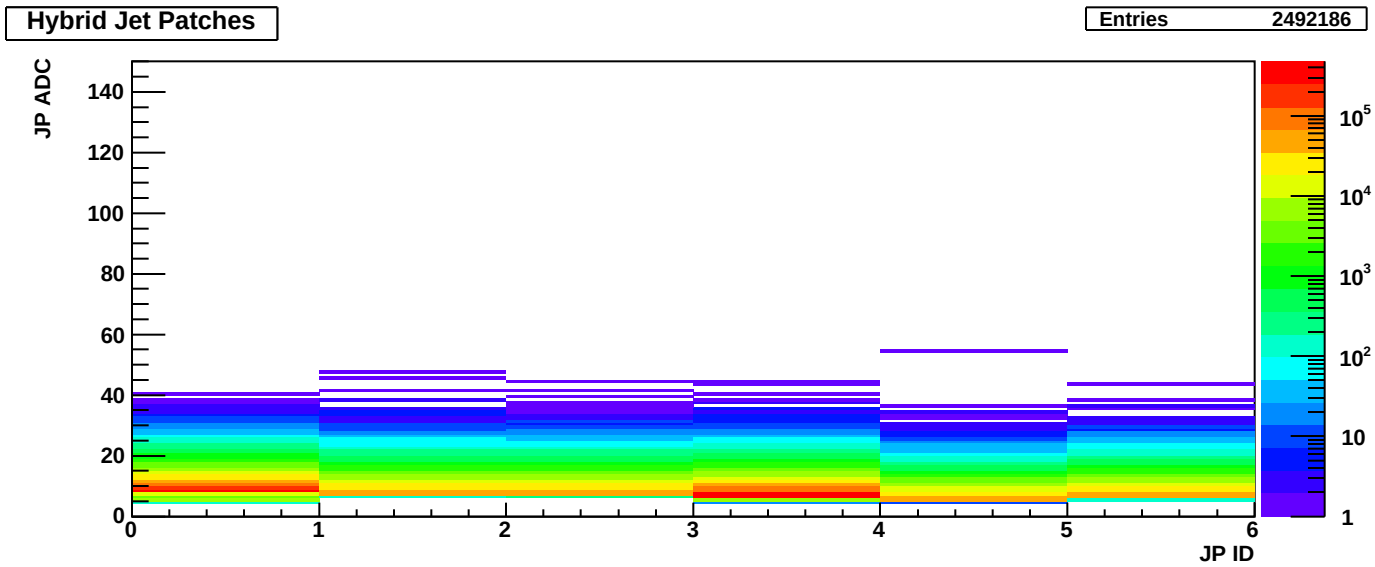

Barrel EMC L0 Input - Patch Sum
Entries 3.738279e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

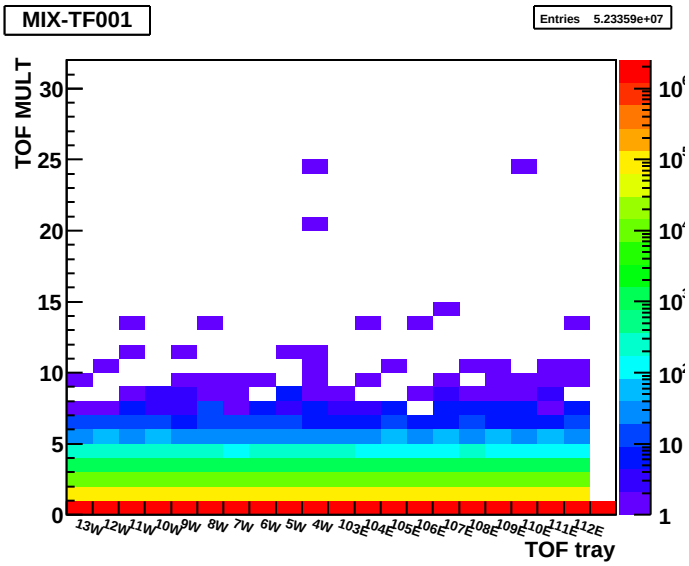

Endcap EMC L0 Input - High Tower
Entries 1.121484e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

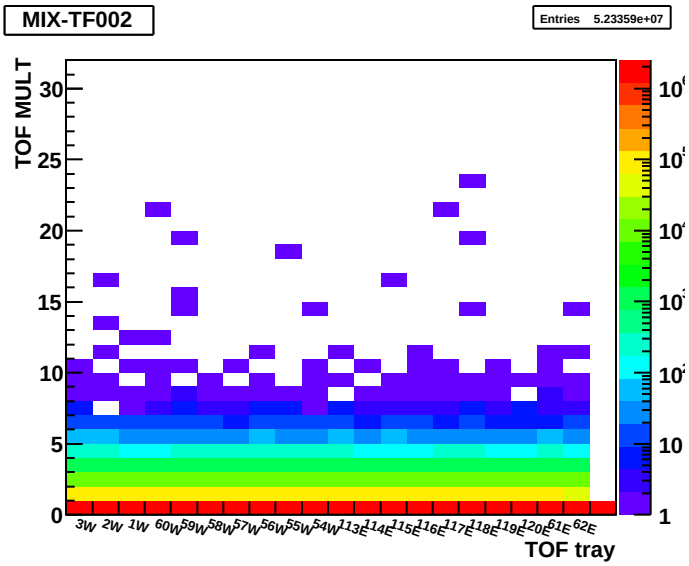

Endcap EMC L0 Input - Patch Sum
Entries 1.121484e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

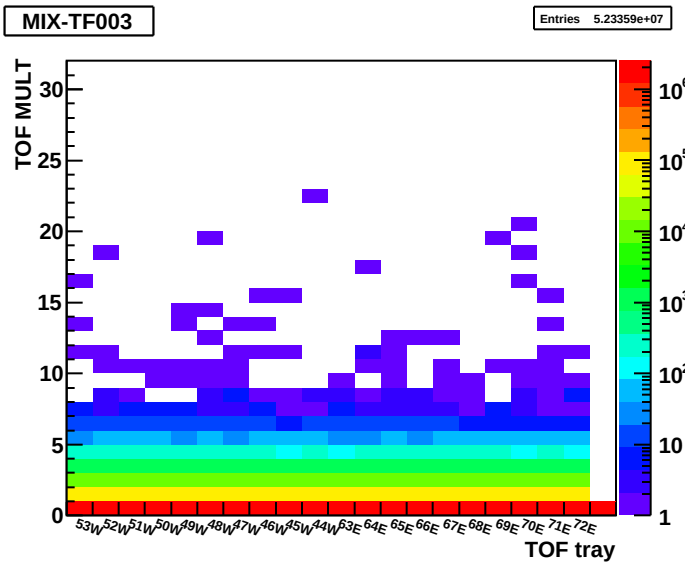

Barrel Jet Patches
Entries 2.242967e+07
JP ADC
JP ID

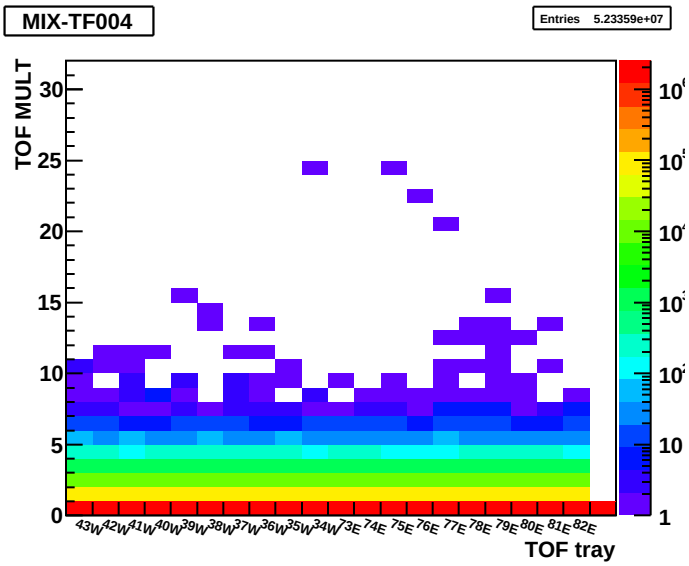

Endcap Jet Patches
Entries 7476558
JP ADC
JP ID

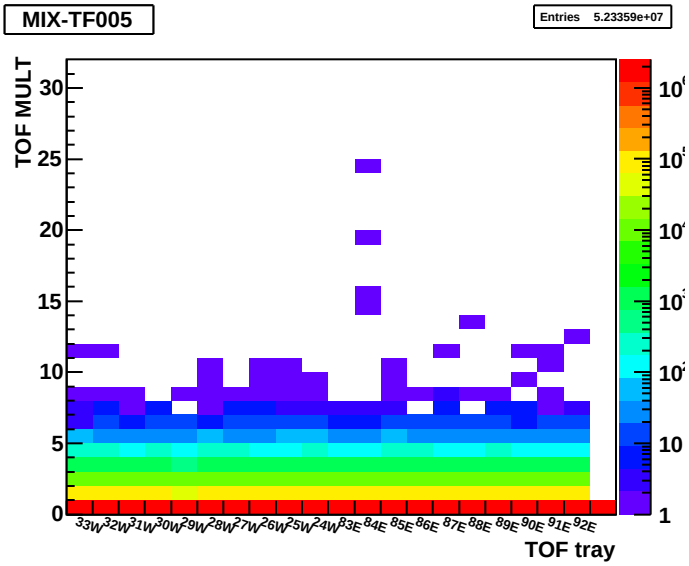

Hybrid Jet Patches
Entries 2492186
JP ADC
JP ID

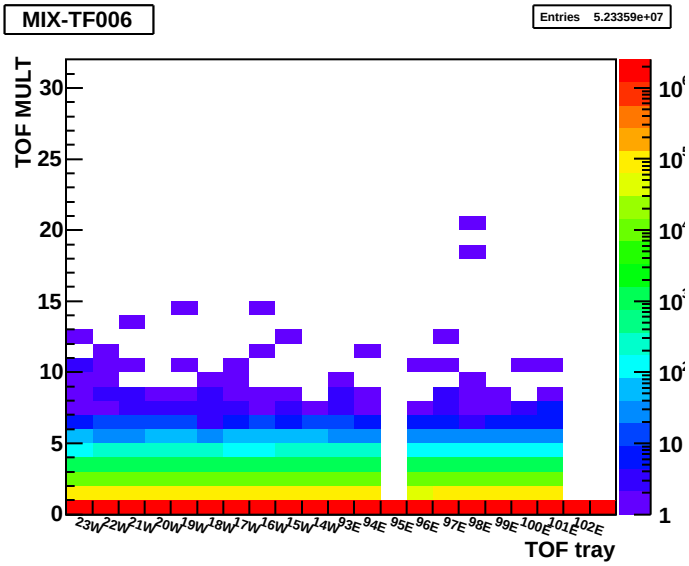

MIX-TF001
Entries 5.23359e+07
TOF MULT
TOF tray

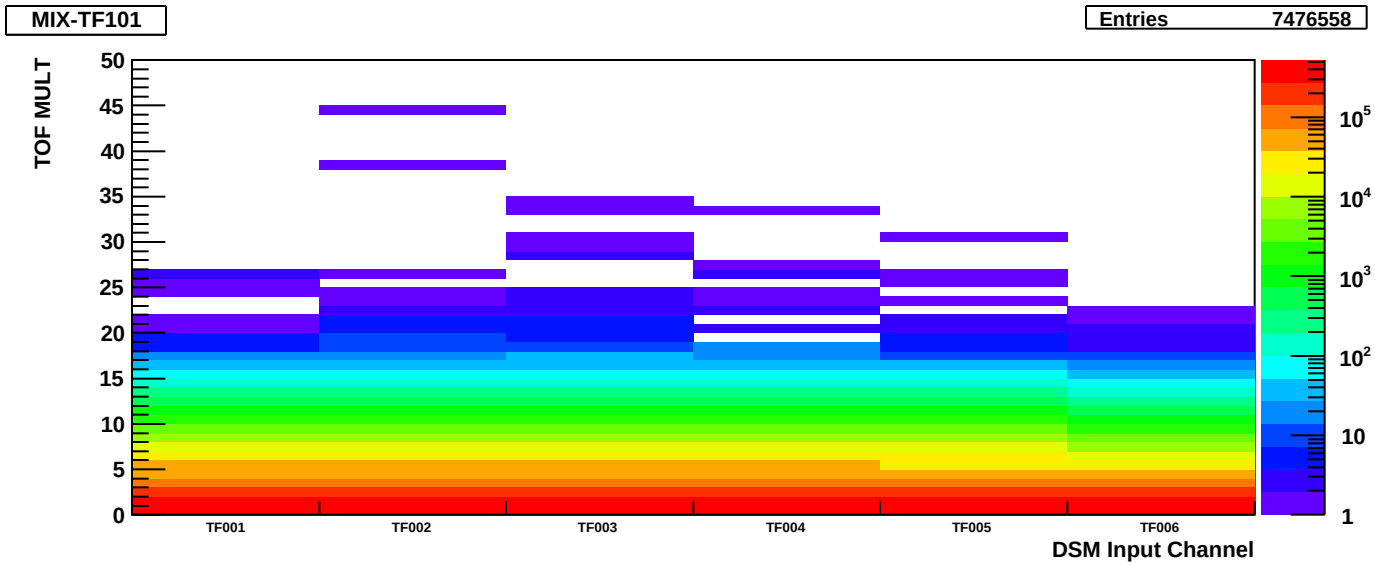

MIX-TF002
Entries 5.23359e+07
TOF MULT
TOF tray

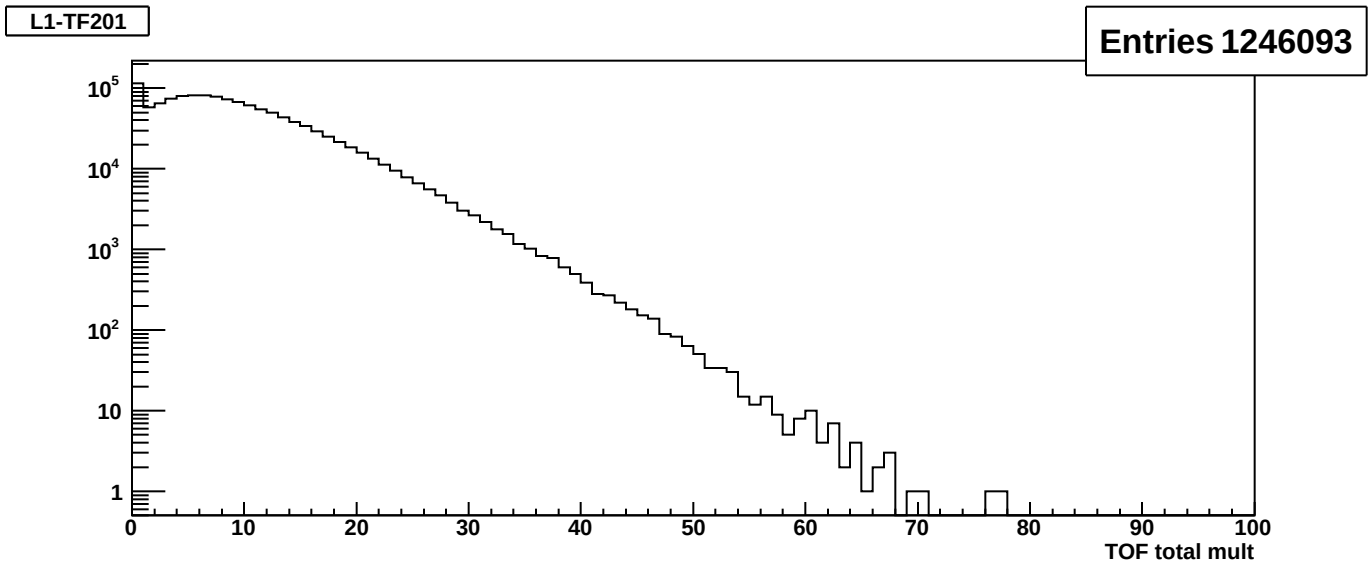

MIX-TF003
Entries 5.23359e+07
TOF MULT
TOF tray

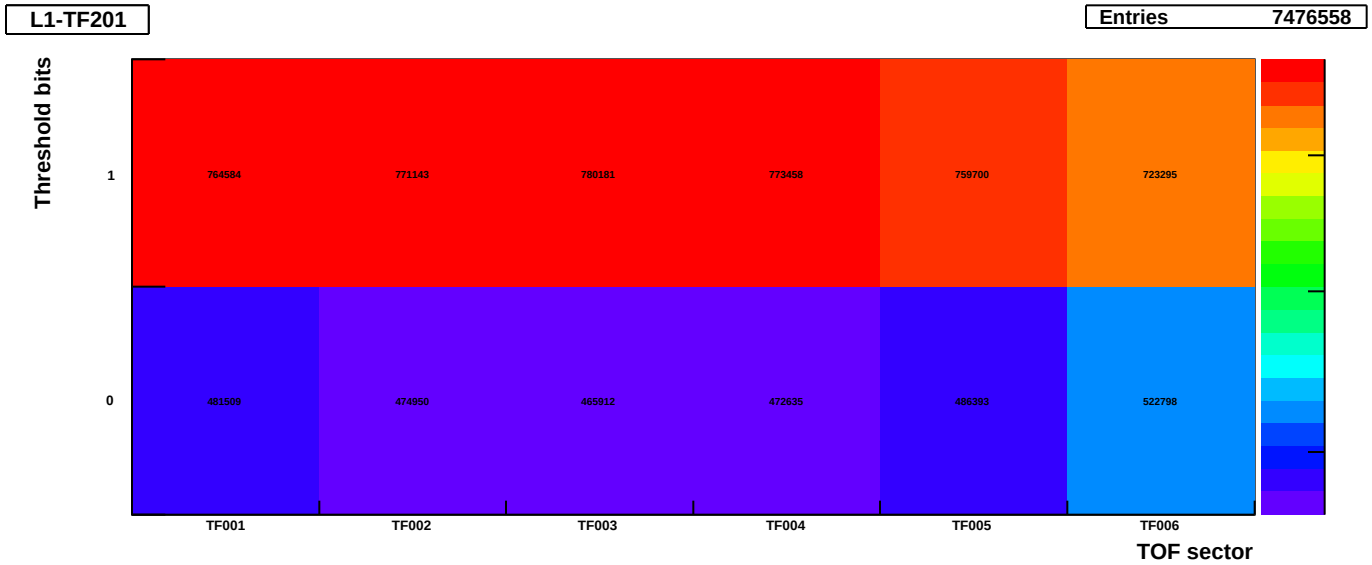

MIX-TF004
Entries 5.23359e+07
TOF MULT
TOF tray

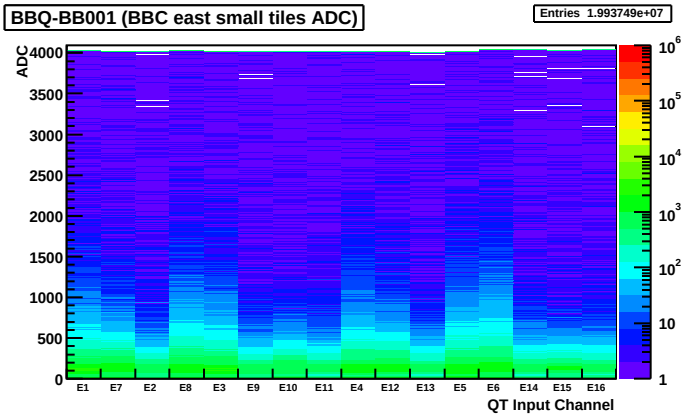

MIX-TF005
Entries 5.23359e+07
TOF MULT
TOF tray

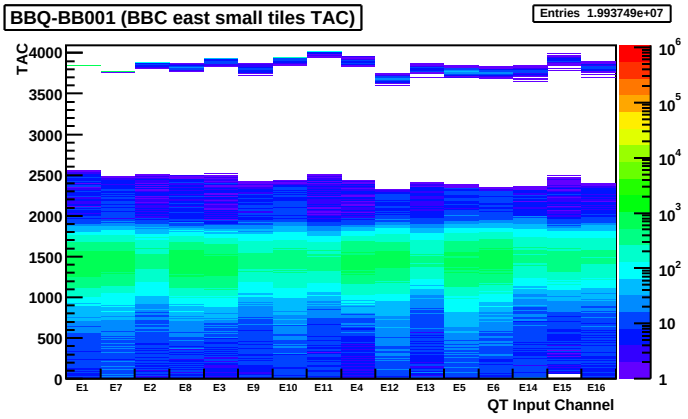

MIX-TF006
Entries 5.23359e+07
TOF MULT
TOF tray

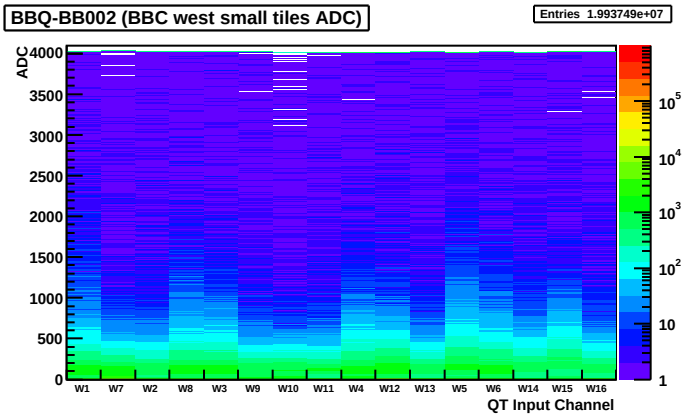

MIX-TF101
Entries 7476558
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

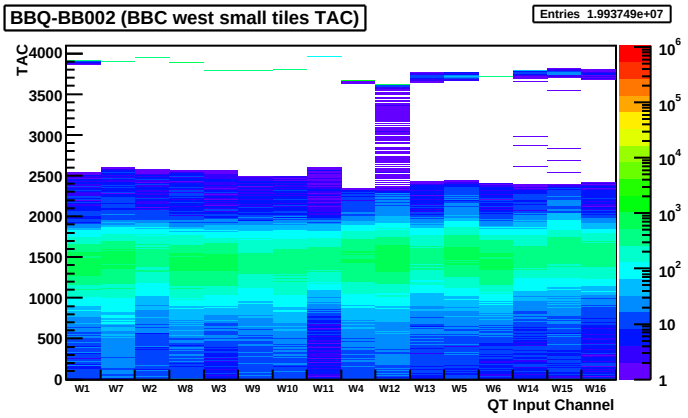

L1-TF201
Entries 1246093
TOF total mult

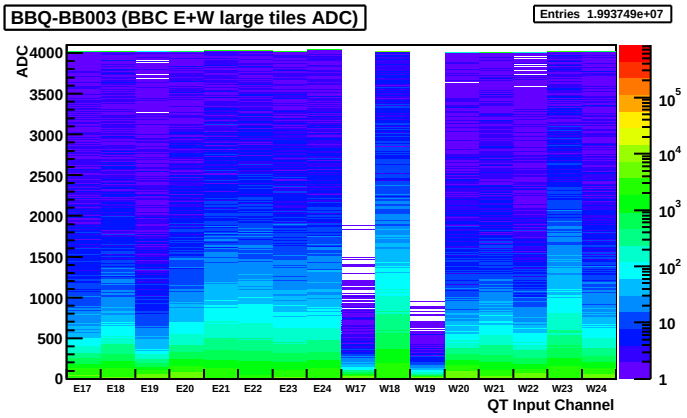

L1-TF201
Entries 7476558
Threshold bits
764584
771143
780181
773458
759700
723295
481509
474950
465912
472635
486393
522798
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

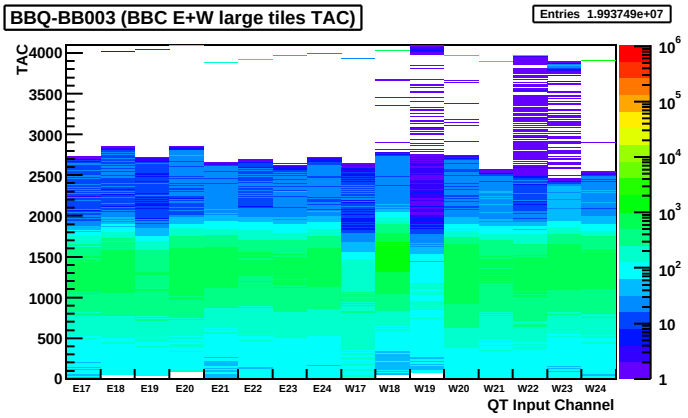

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.993749e+07
ADC
QT Input Channel

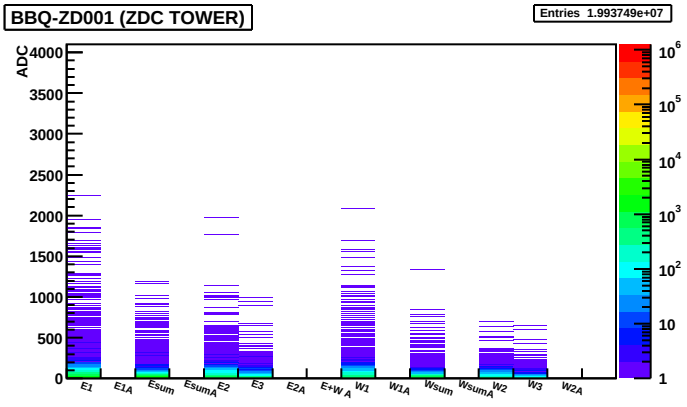

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.993749e+07
TAC
QT Input Channel

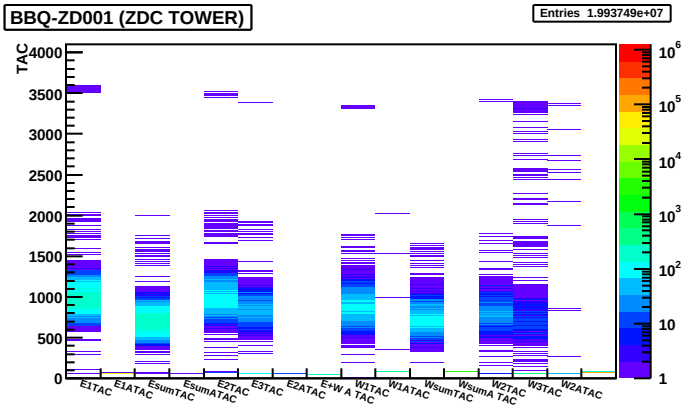

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.993749e+07
ADC
QT Input Channel

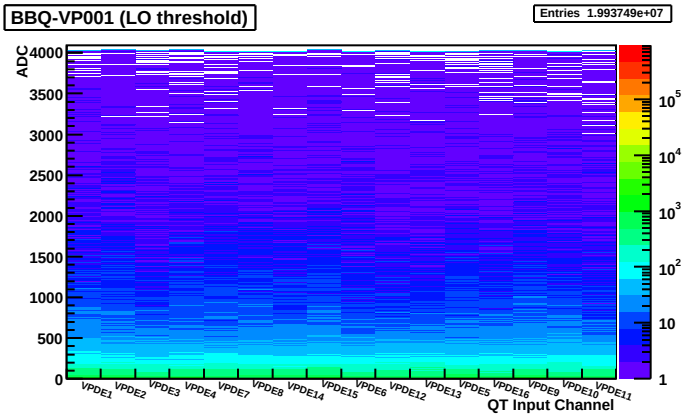

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.993749e+07
TAC
QT Input Channel

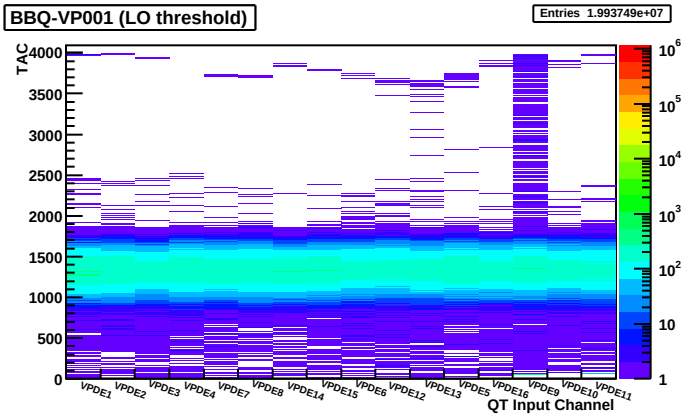

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.993749e+07
ADC
QT Input Channel

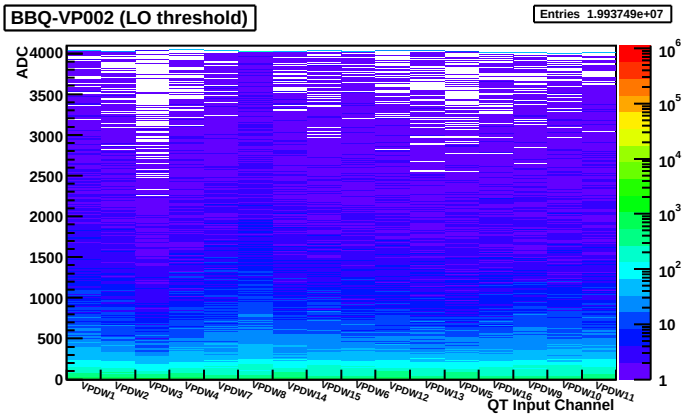

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.993749e+07
TAC
QT Input Channel

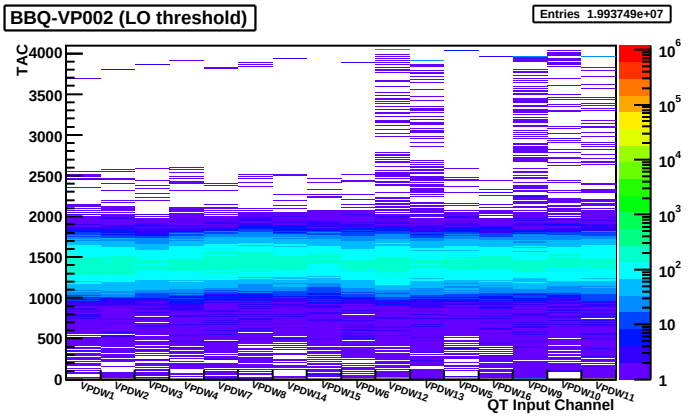

BBQ-ZD001 (ZDC TOWER)
Entries 1.993749e+07
ADC

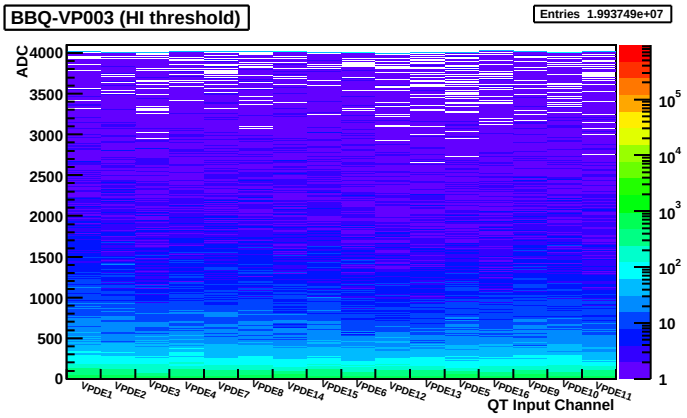

BBQ-ZD001 (ZDC TOWER)
Entries 1.993749e+07
TAC

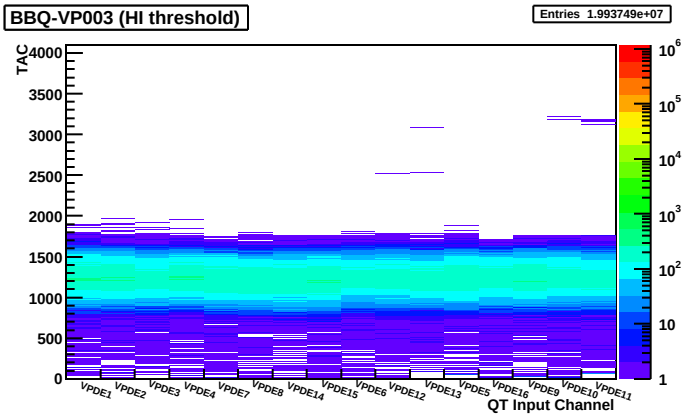

BBQ-VP001 (LO threshold)
Entries 1.993749e+07
ADC
QT Input Channel

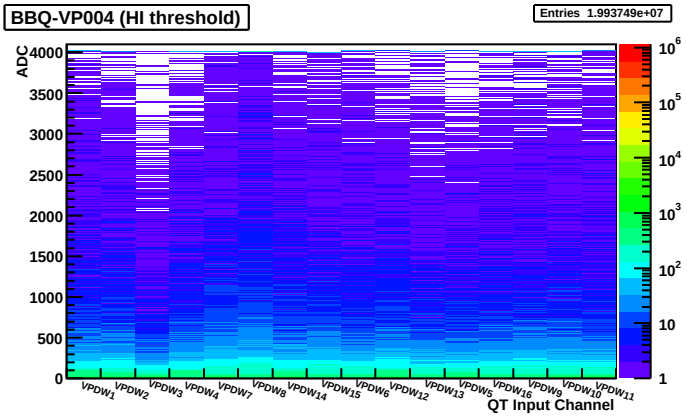

BBQ-VP001 (LO threshold)
Entries 1.993749e+07
TAC
QT Input Channel

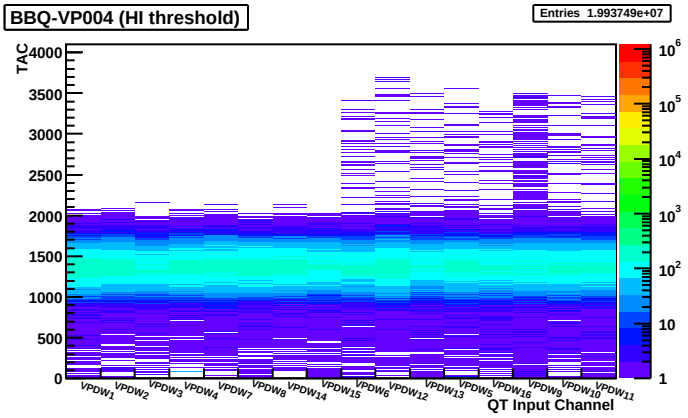

BBQ-VP002 (LO threshold)
Entries 1.993749e+07
ADC
QT Input Channel

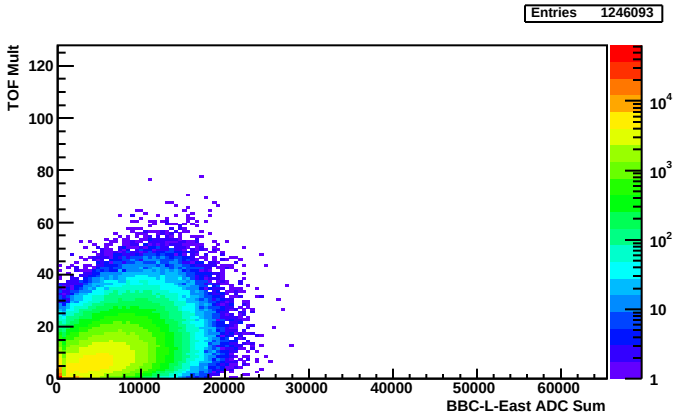

BBQ-VP002 (LO threshold)
Entries 1.993749e+07
TAC
QT Input Channel

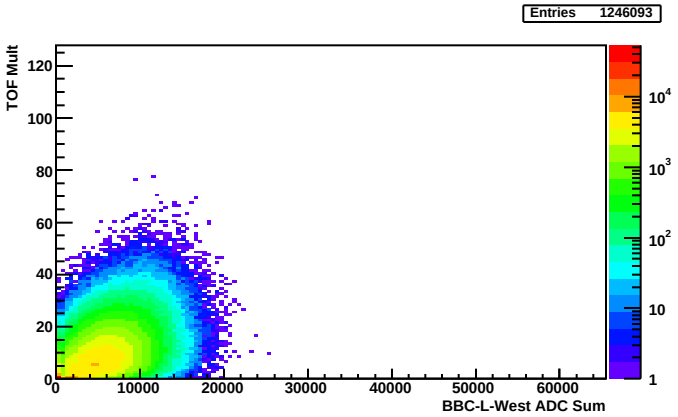

BBQ-VP003 (HI threshold)
Entries 1.993749e+07
ADC
QT Input Channel

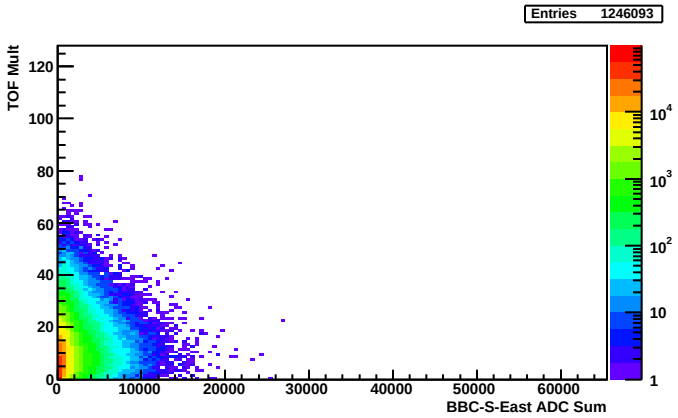

BBQ-VP003 (HI threshold)
Entries 1.993749e+07
TAC
QT Input Channel

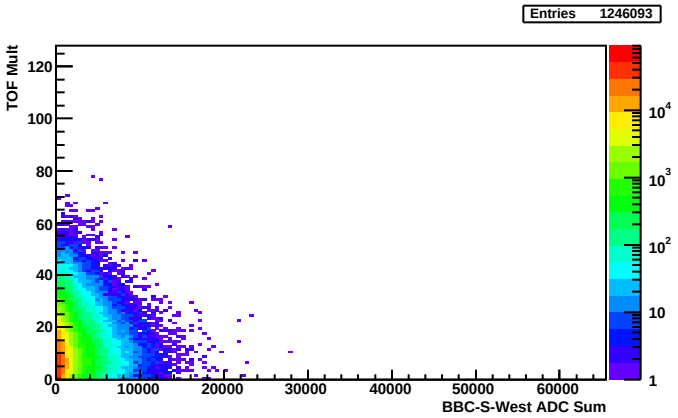

BBQ-VP004 (HI threshold)
Entries 1.993749e+07
ADC
QT Input Channel

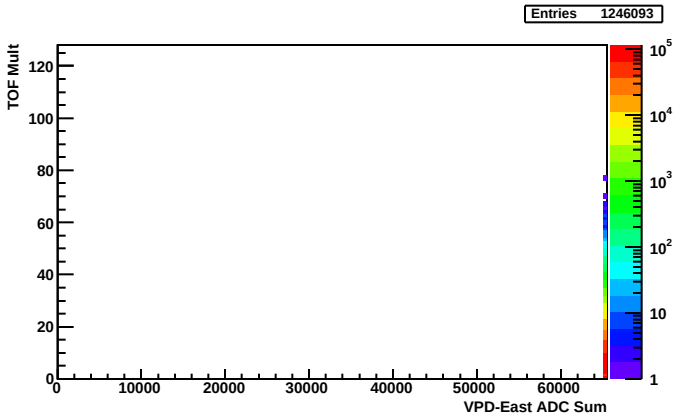

BBQ-VP004 (HI threshold)
Entries 1.993749e+07
TAC
QT Input Channel

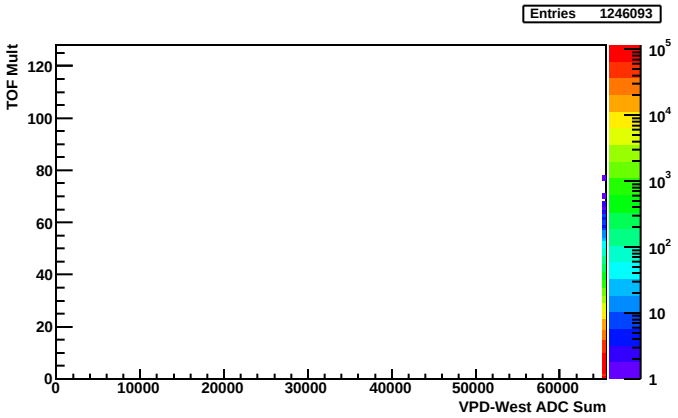

Entries 1246093
TOF Mult
BBC-L-East ADC Sum

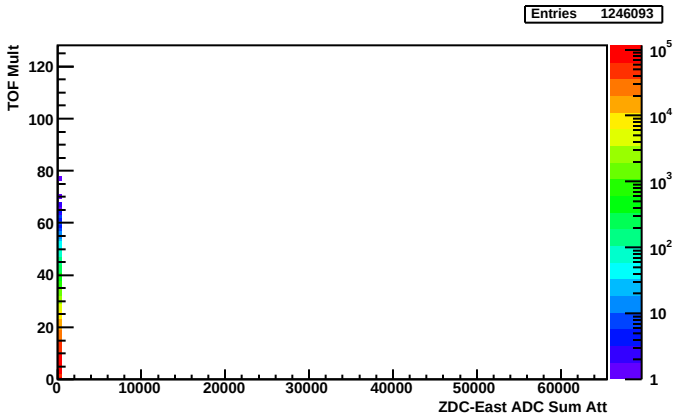

Entries 1246093
TOF Mult
BBC-L-West ADC Sum

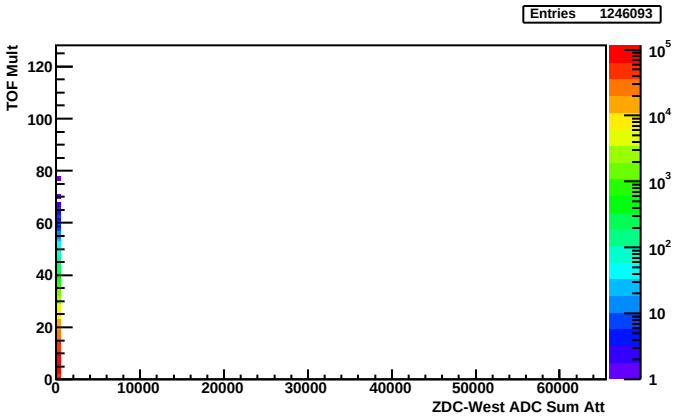

Entries 1246093
TOF Mult
BBC-S-East ADC Sum

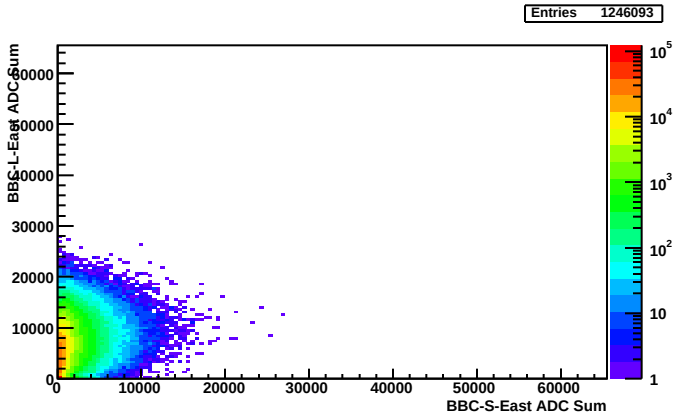

Entries 1246093
TOF Mult
BBC-S-West ADC Sum

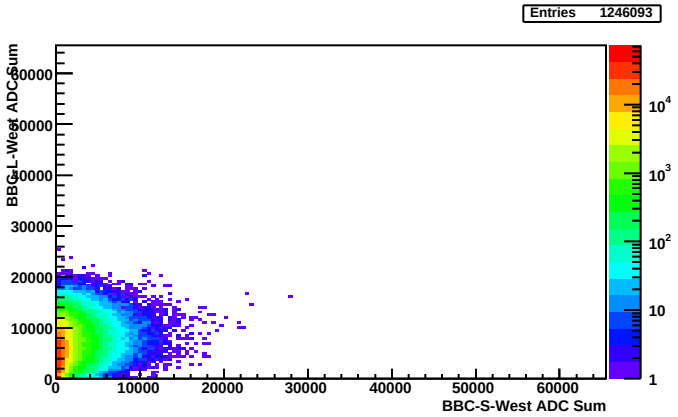

Entries 1246093
TOF Mult
VPD-East ADC Sum

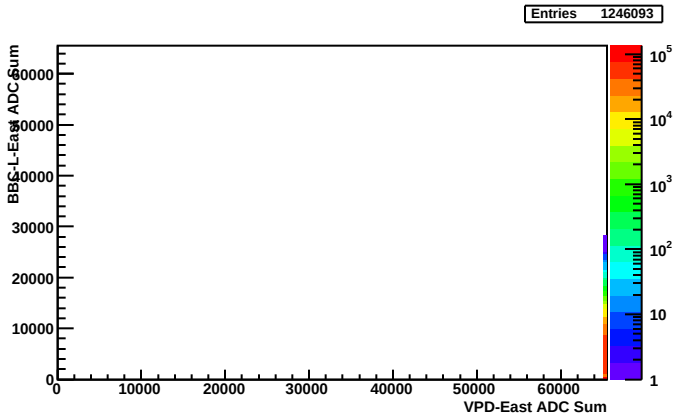

Entries 1246093
TOF Mult
VPD-West ADC Sum

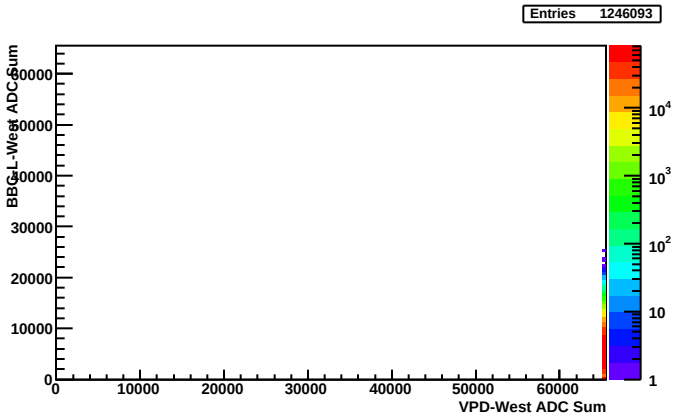

Entries 1246093
TOF Mult
ZDC-East ADC Sum Att

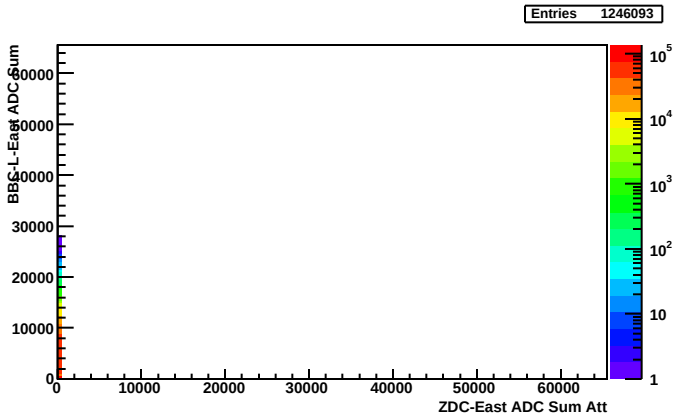

Entries 1246093
TOF Mult
ZDC-West ADC Sum Att

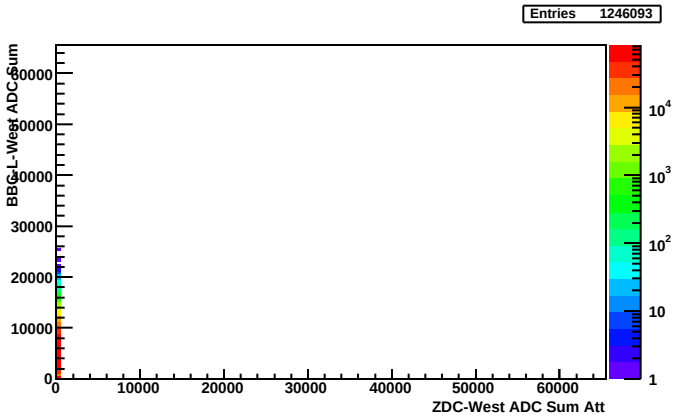

Entries 1246093
BBC-L-East ADC Sum
BBC-S-East ADC Sum

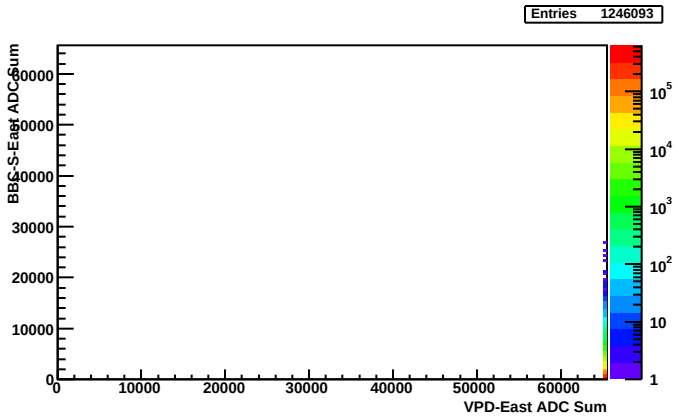

Entries 1246093
BBC-L-West ADC Sum
BBC-S-West ADC Sum

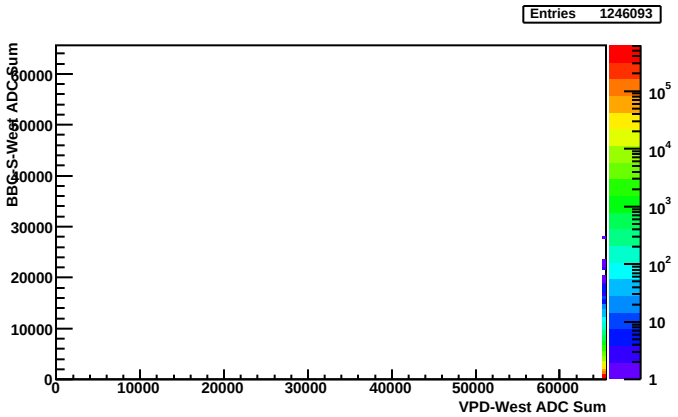

Entries 1246093
BBC-L-East ADC Sum
VPD-East ADC Sum

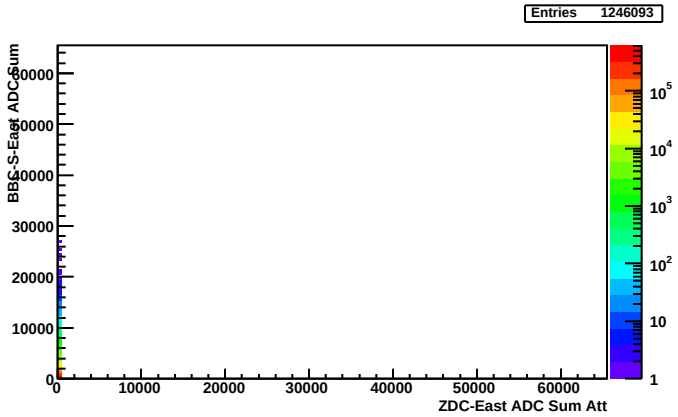

Entries 1246093
BBC-L-West ADC Sum
VPD-West ADC Sum

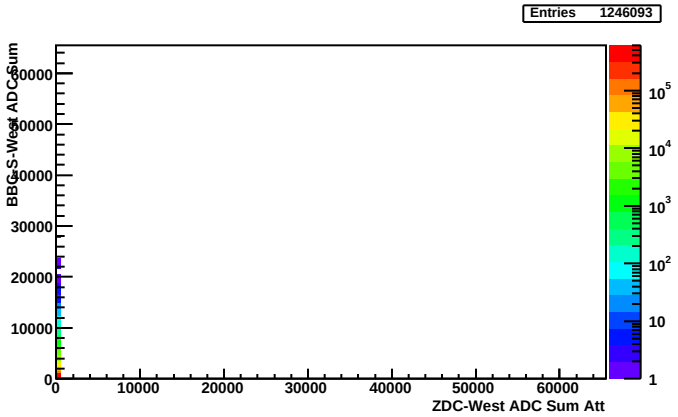

Entries 1246093
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 1246093
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 1246093
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 1246093
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 1246093
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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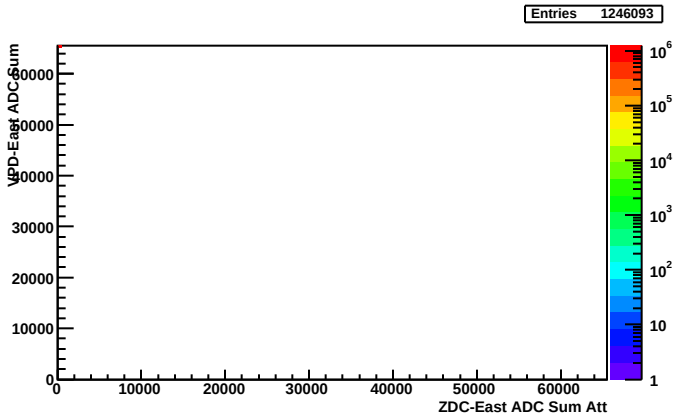
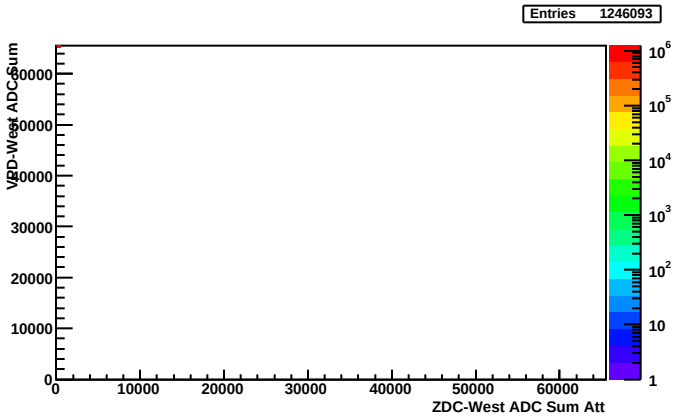
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 1246093
VPD-East ADC Sum
ZDC-East ADC Sum Att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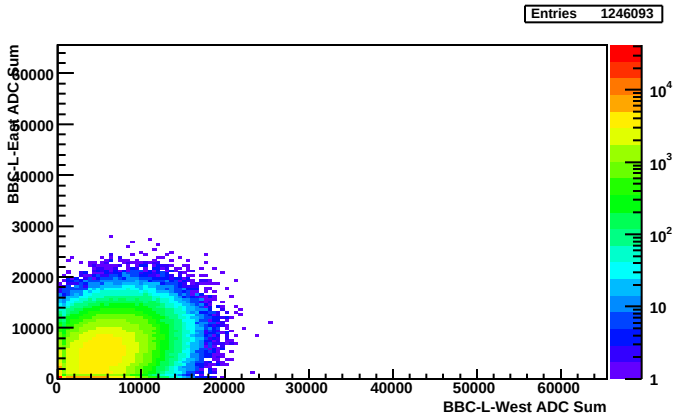
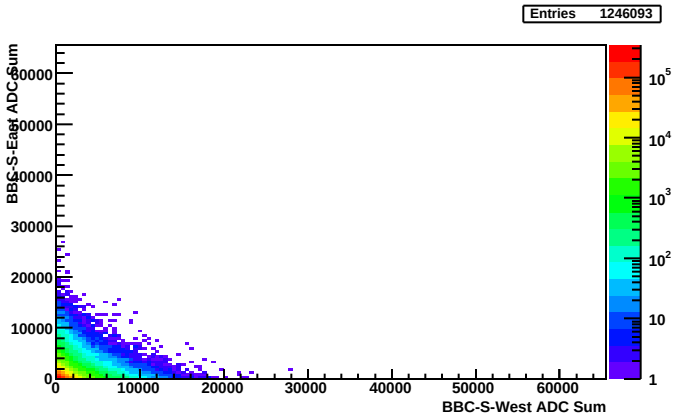
VPD-West ADC Sum
ZDC-West ADC Sum Att


Entries 1246093
BBC-L-East ADC Sum
BBC-L-West ADC Sum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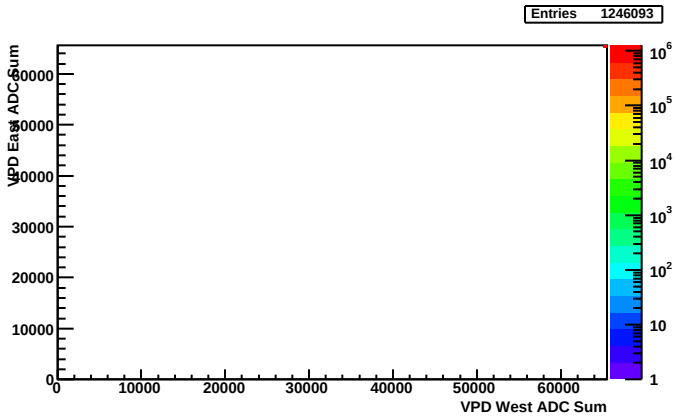
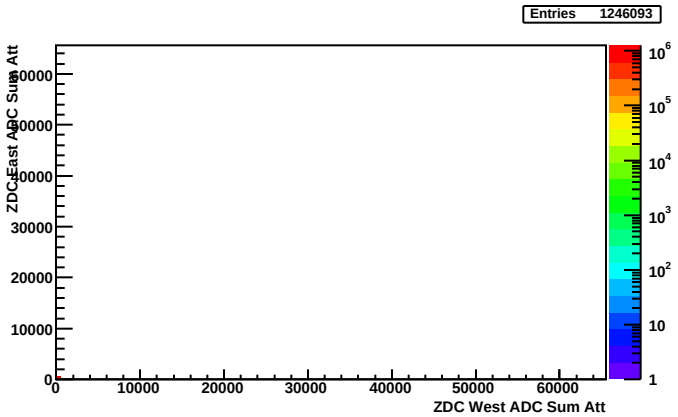
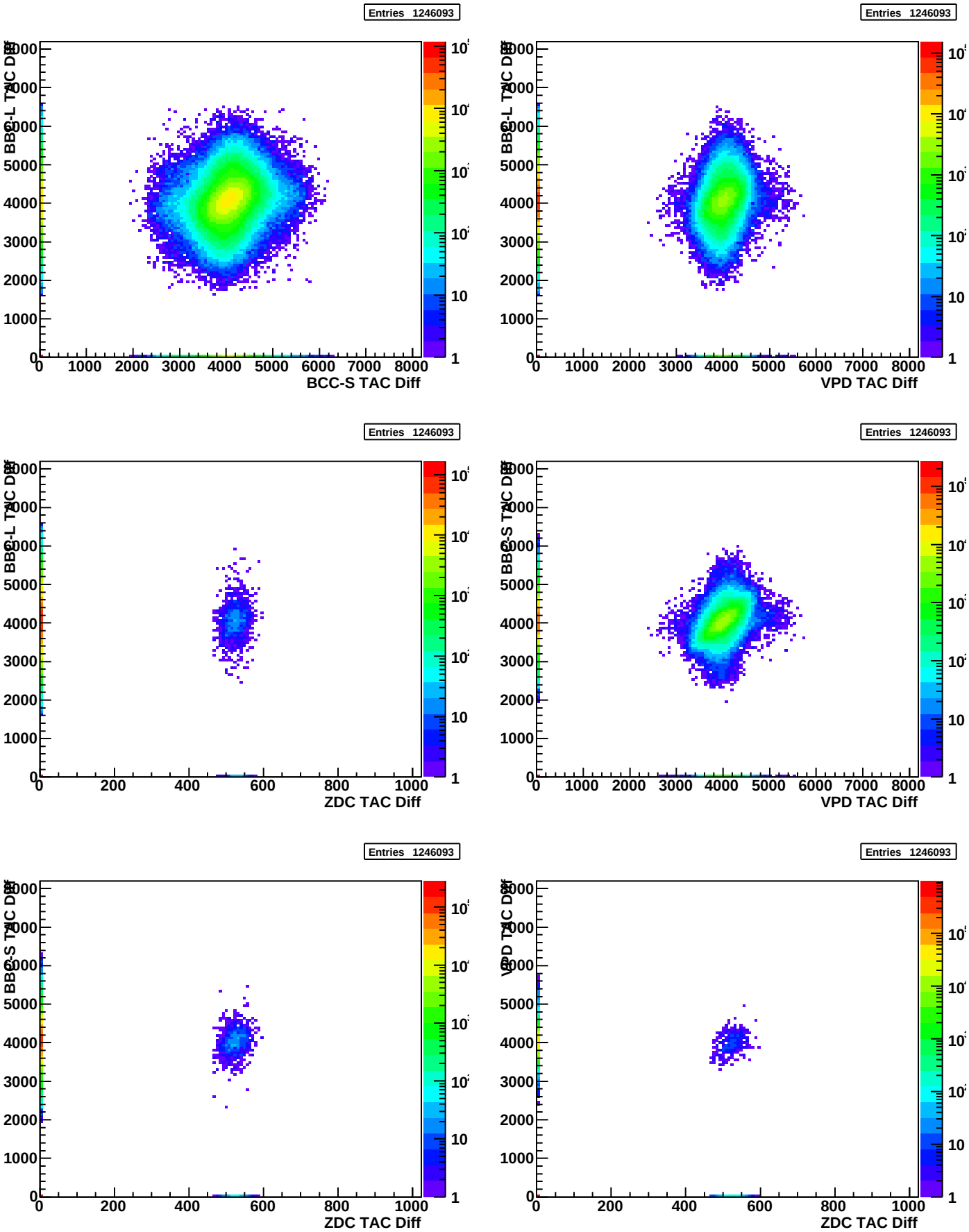
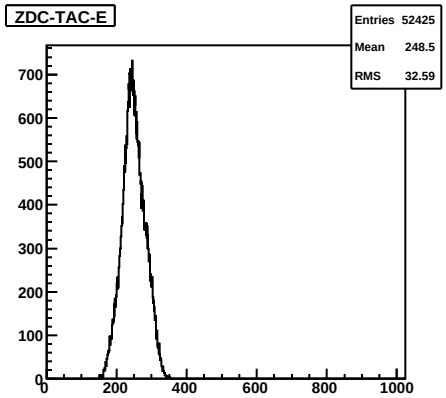
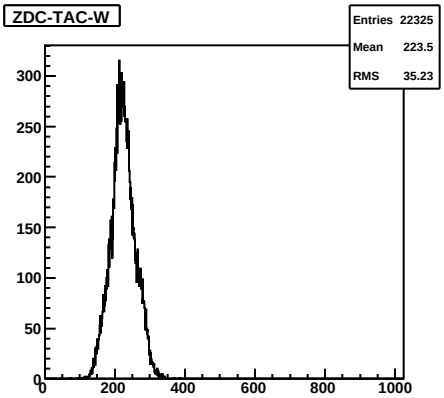
BBC-S-East ADC Sum
BBC-S-West ADC Sum

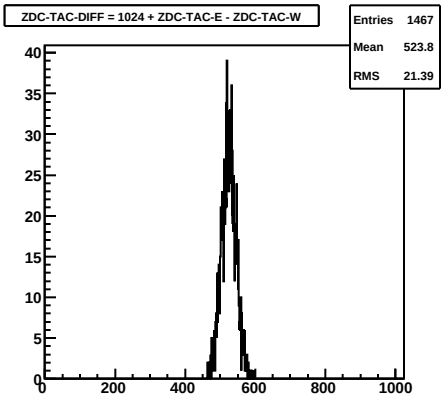

Entries 1246093
VPD East ADC Sum
VPD West ADC Sum

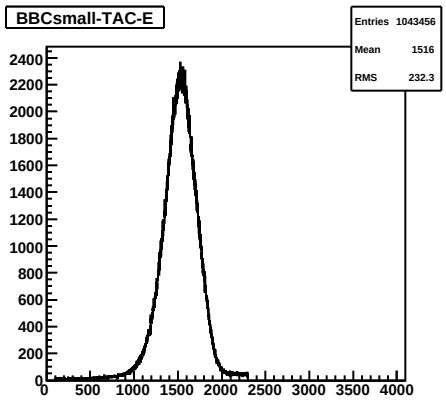

Entries 1246093
ZDC East ADC Sum Att
ZDC West ADC Sum Att

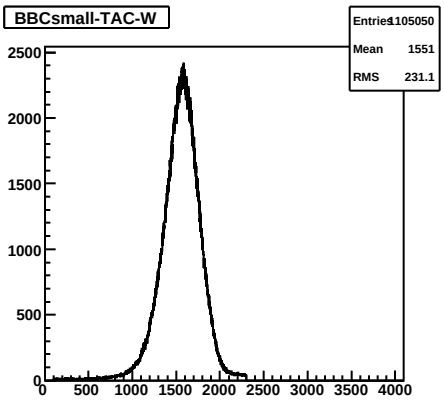

Entries 1246093
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1246093
BBC-L TAC Diff
VPD TAC Diff
Entries 1246093
BBC-L TAC Diff
ZDC TAC Diff
Entries 1246093
BBC-S TAC Diff
VPD TAC Diff
Entries 1246093
BBC-S TAC Diff
ZDC TAC Diff
Entries 1246093
VPD TAC Diff
ZDC TAC Diff

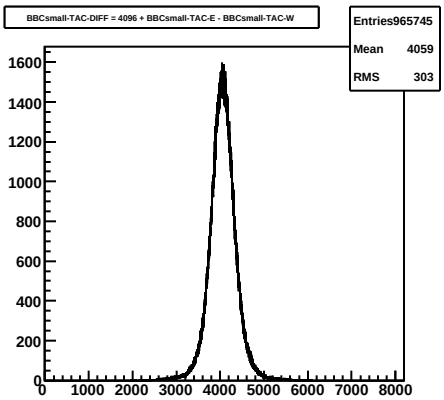

ZDC-TAC-E
Entries 52425
Mean 248.5
RMS 32.59

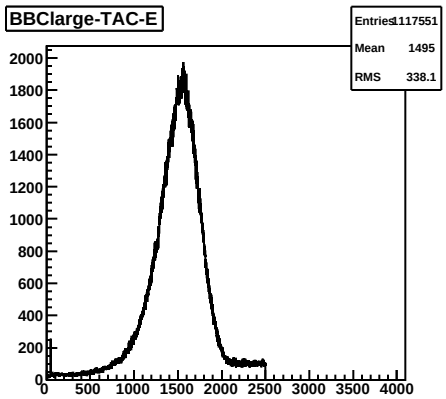

ZDC-TAC-W
Entries 22325
Mean 223.5
RMS 35.23

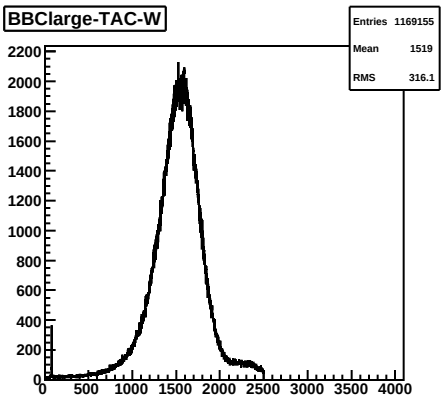

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1467
Mean 523.8
RMS 21.39

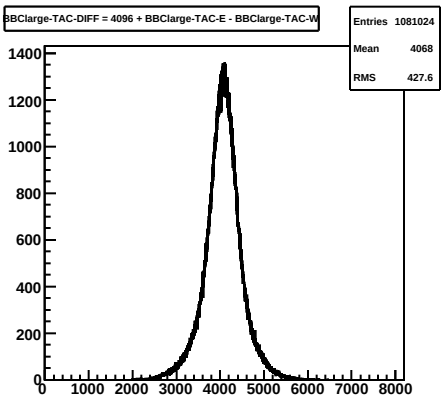

BBCsmall-TAC-E
Entries 1043456
Mean 1516
RMS 232.3

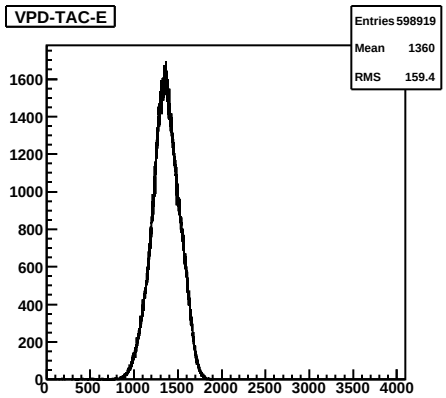

BBCsmall-TAC-W
Entries 1105050
Mean 1551
RMS 231.1

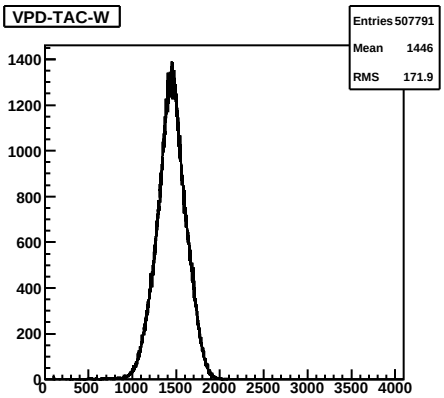

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 965745
Mean 4059
RMS 303

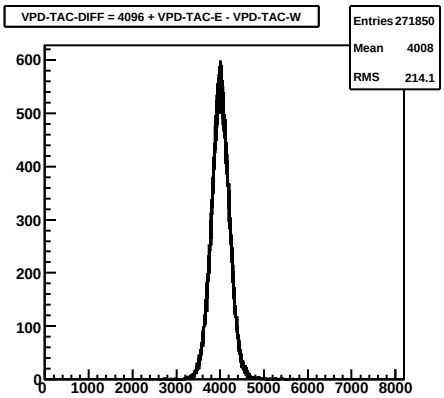

BBClarge-TAC-E
Entries 1117551
Mean 1495
RMS 338.1

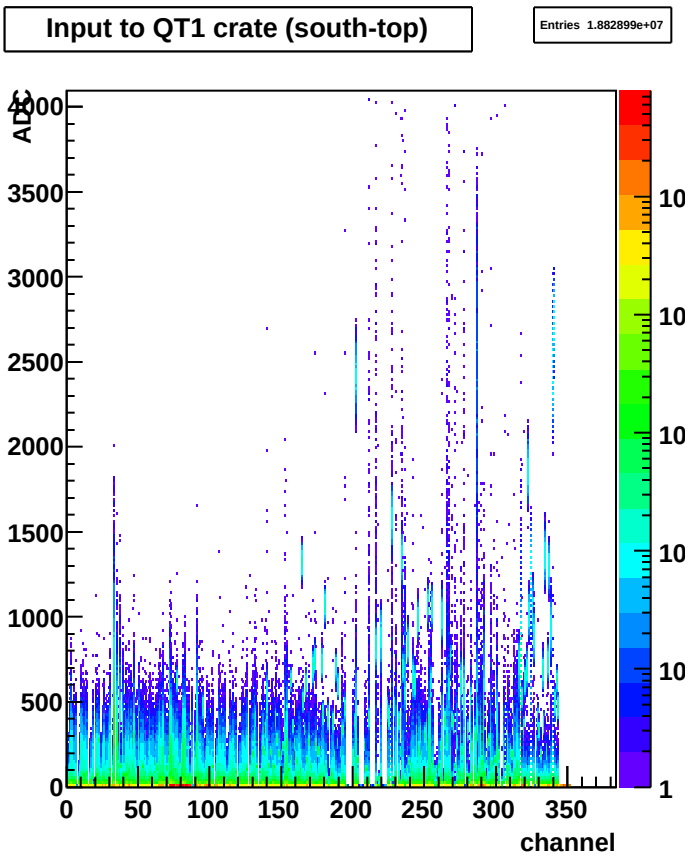

BBClarge-TAC-W
Entries 1169155
Mean 1519
RMS 316.1

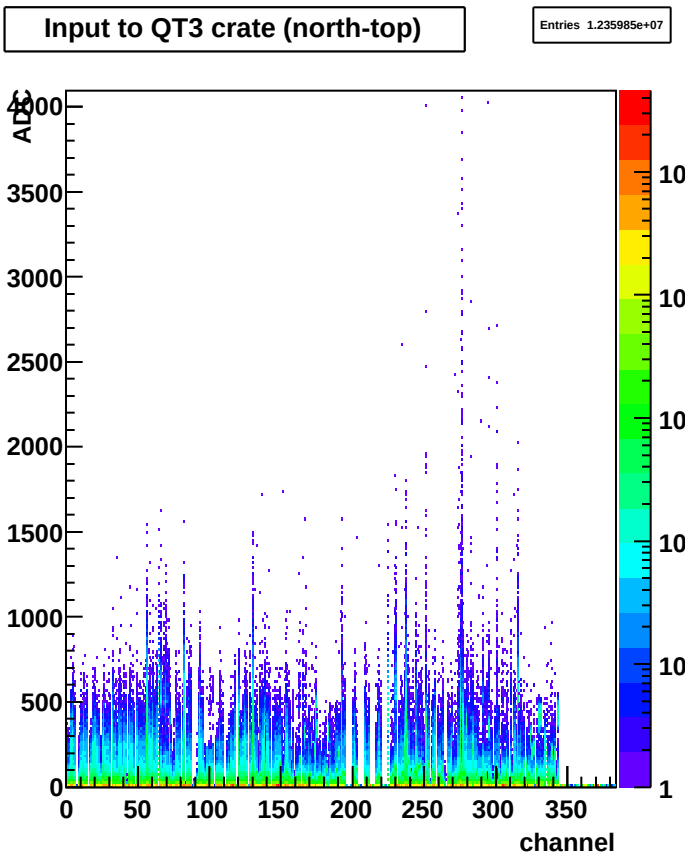

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 1081024
Mean 4068
RMS 427.6

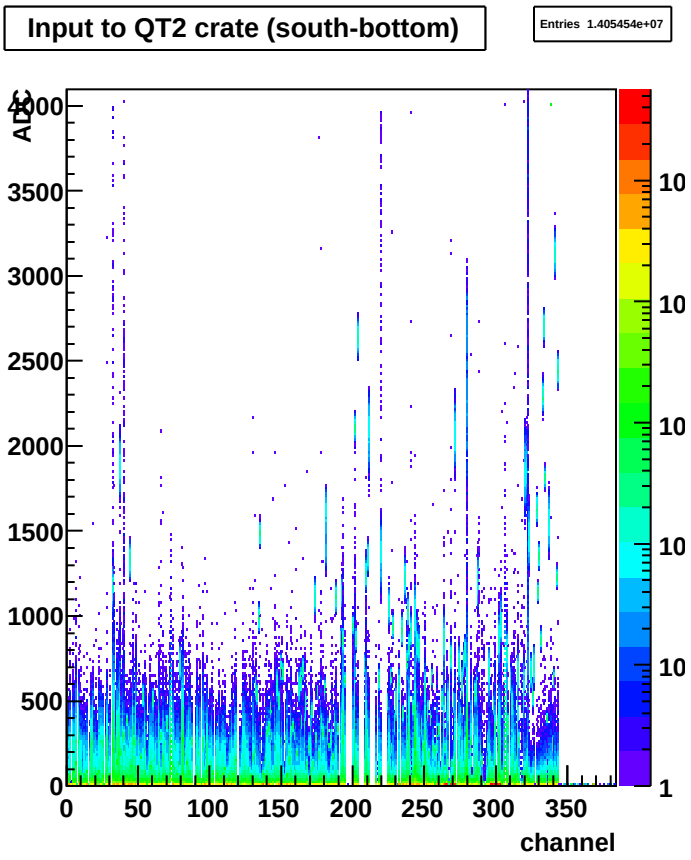

VPD-TAC-E
Entries 598919
Mean 1360
RMS 159.4

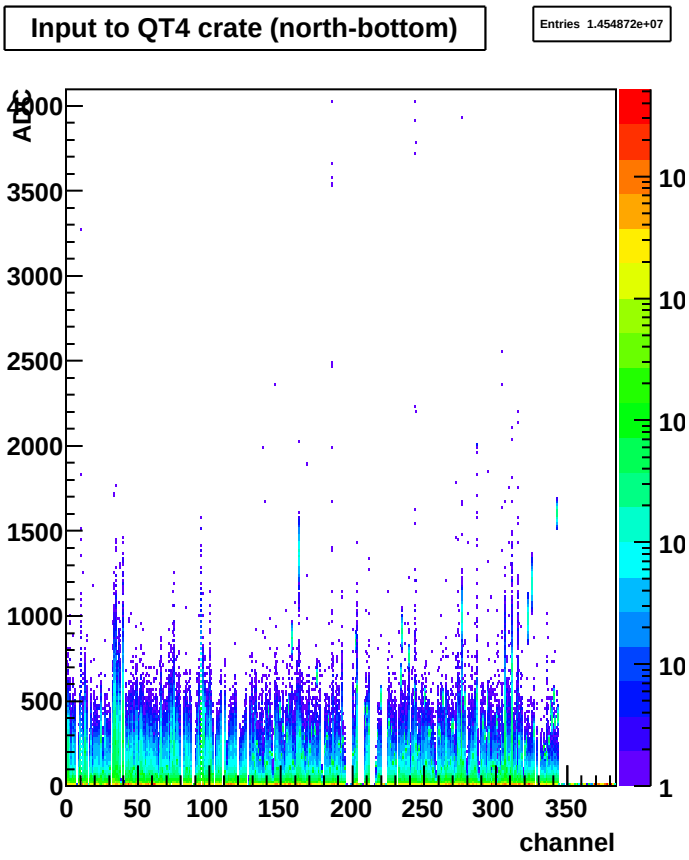

VPD-TAC-W
Entries 507791
Mean 1446
RMS 171.9

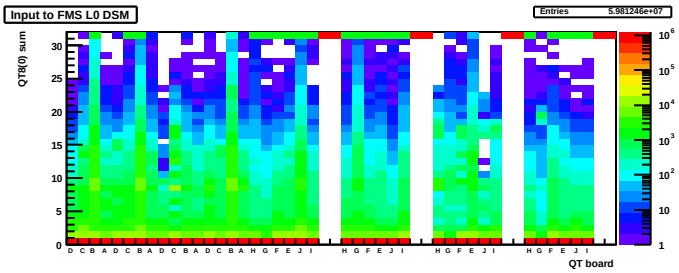

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 271850
Mean 4008
RMS 214.1

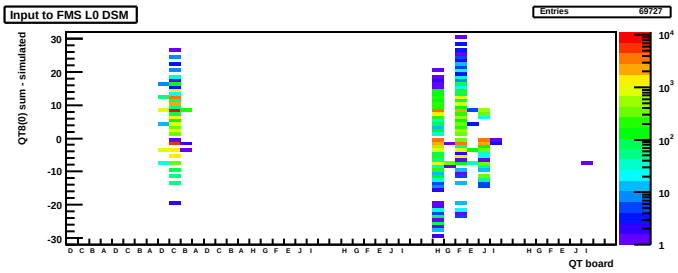

Input to QT1 crate (south-top)
Entries 1.882899e+07
ADC
channel

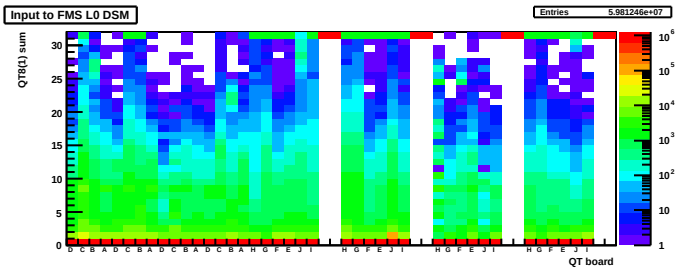

Input to QT3 crate (north-top)
Entries 1.235985e+07
ADC
channel

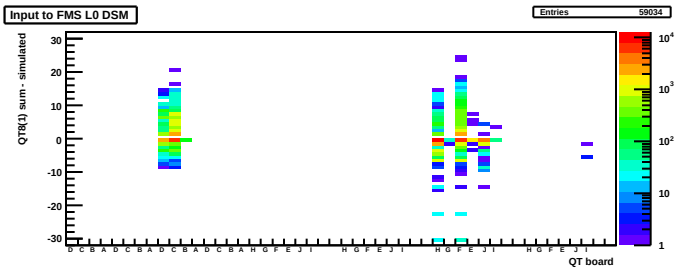

Input to QT2 crate (south-bottom)
Entries 1.405454e+07
ADC
channel

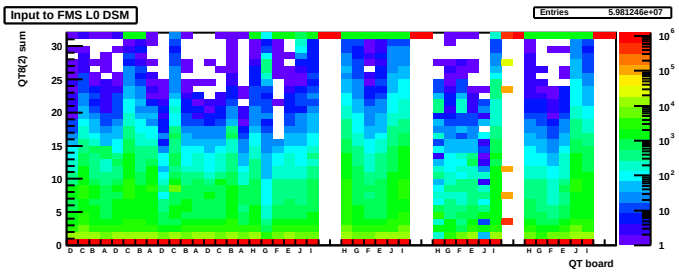

Input to QT4 crate (north-bottom)
Entries 1.454872e+07
ADC
channel

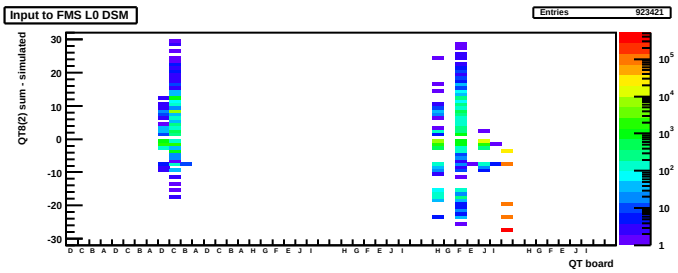

Input to FMS L0 DSM
Entries 5.981246e+07
QT8(0) sum
QT board

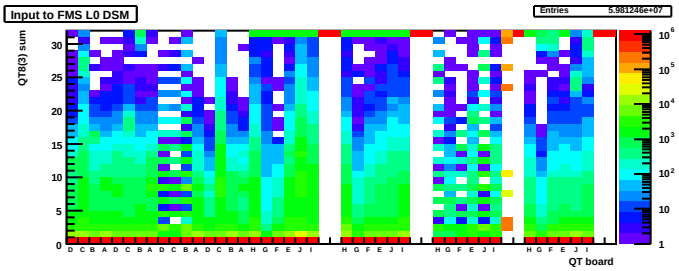

Input to FMS L0 DSM
Entries 69727
QT8(0) sum - simulated
QT board

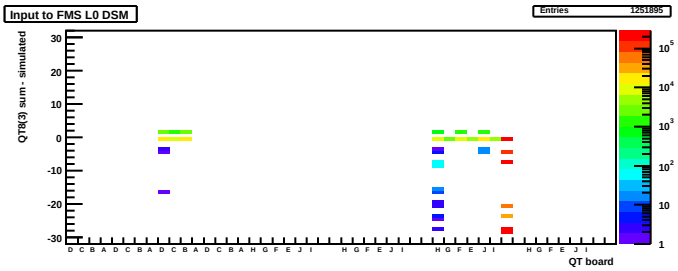

Input to FMS L0 DSM
Entries 5.981246e+07
QT8(1) sum
QT board

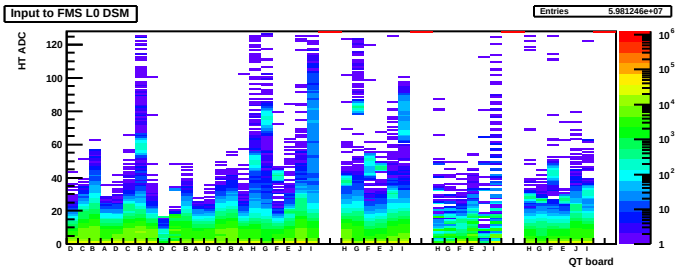

Input to FMS L0 DSM
Entries 59034
QT8(1) sum - simulated
QT board

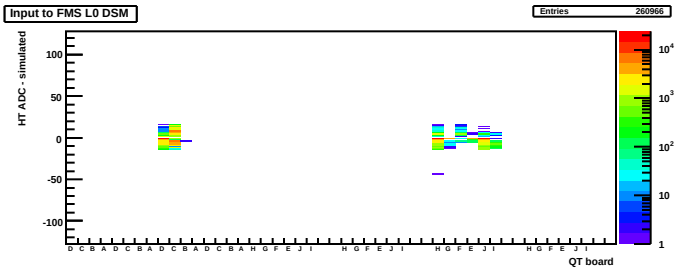

Input to FMS L0 DSM
Entries 5.981246e+07
QT8(2) sum
QT board

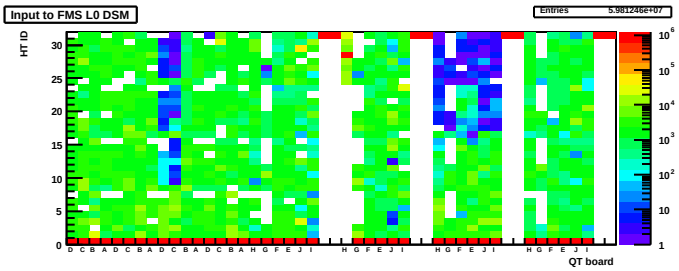

Input to FMS L0 DSM
Entries 923421
QT8(2) sum - simulated
QT board

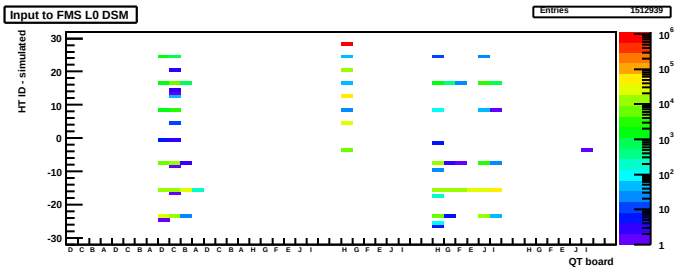

Input to FMS L0 DSM
Entries 5.981246e+07
QT8(3) sum
QT board

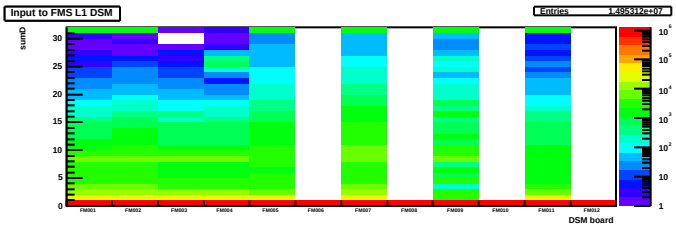

Input to FMS L0 DSM
Entries 1251895
QT8(3) sum - simulated
QT board

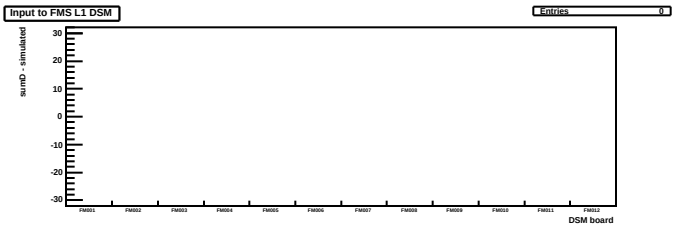

Input to FMS L0 DSM
Entries 5.981246e+07
HT ADC
QT board

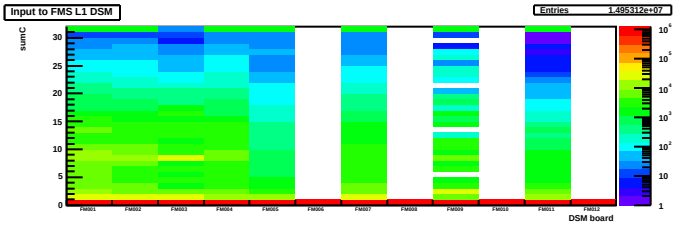

Input to FMS L0 DSM
Entries 260966
HT ADC - simulated
QT board

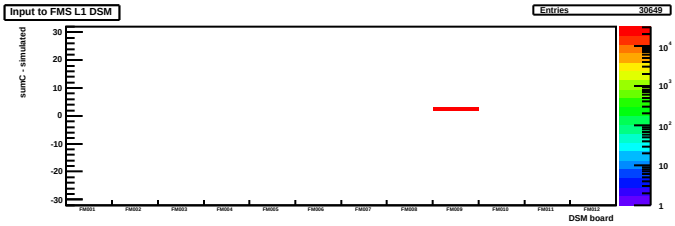

Input to FMS L0 DSM
Entries 5.981246e+07
HT ID
QT board

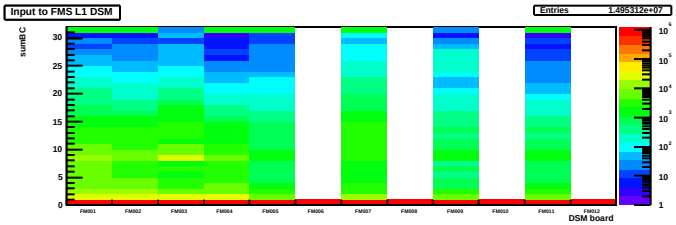

Input to FMS L0 DSM
Entries 1512939
HT ID - simulated
QT board

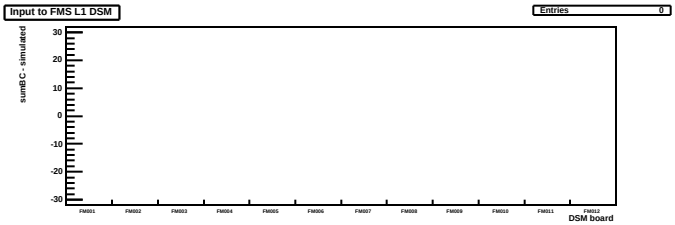

Input to FMS L1 DSM
Entries 1.495312e+07
sumD
DSM board

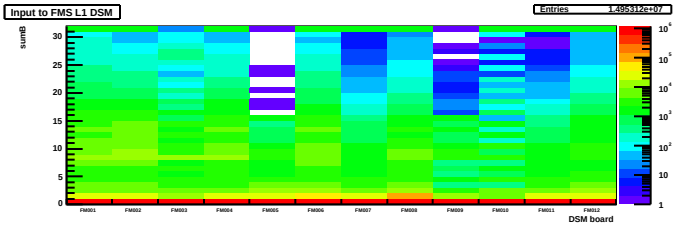

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

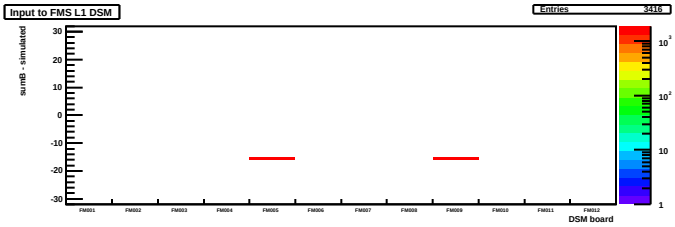

Input to FMS L1 DSM
Entries 1.495312e+07
sumC
DSM board

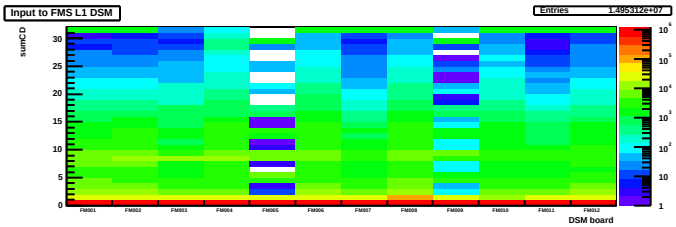

Input to FMS L1 DSM
Entries 30649
sumC - simulated
DSM board

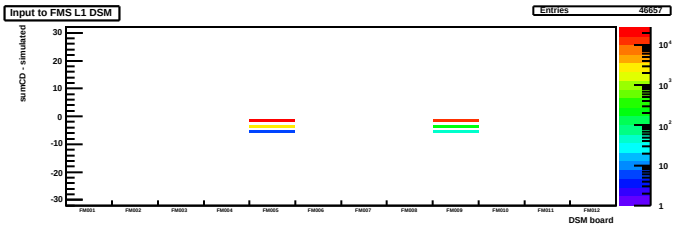

Input to FMS L1 DSM
Entries 1.495312e+07
sumBC
DSM board

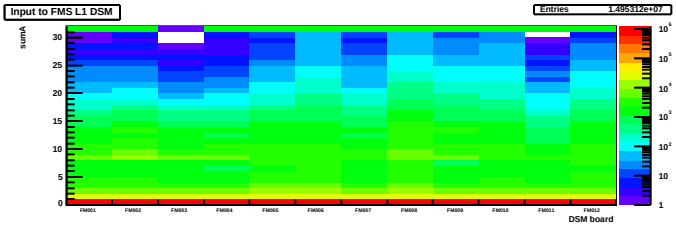

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

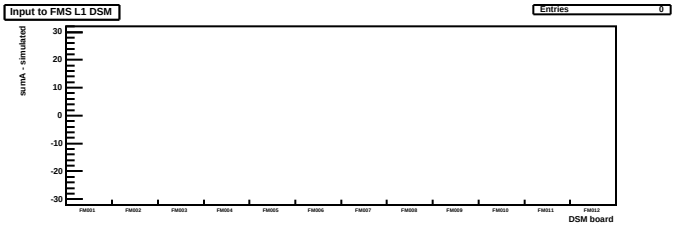

Input to FMS L1 DSM
Entries 1.495312e+07
sumB
DSM board

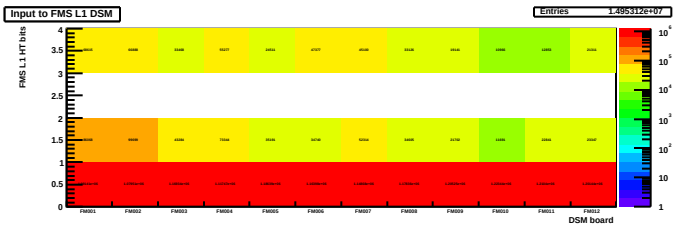

Input to FMS L1 DSM
Entries 3416
sumB - simulated
DSM board

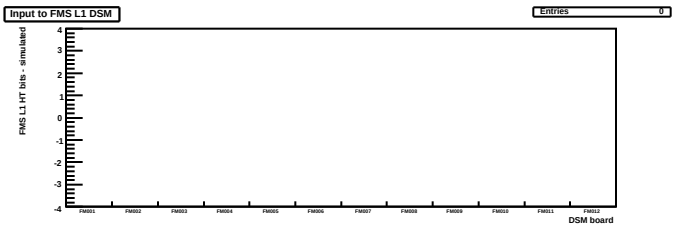

Input to FMS L1 DSM
Entries 1.495312e+07
sumCD
DSM board

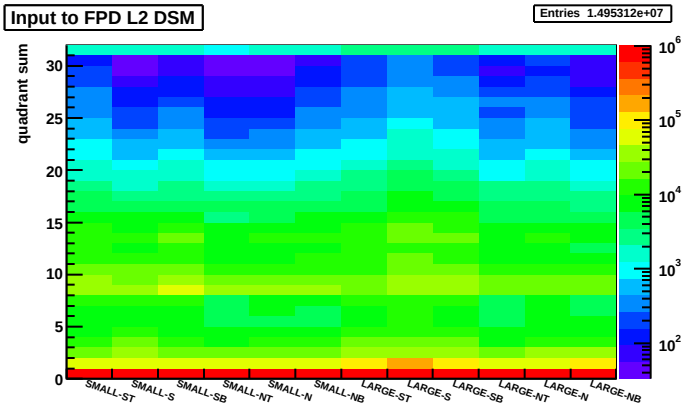

Input to FMS L1 DSM
Entries 46657
sumCD - simulated
DSM board

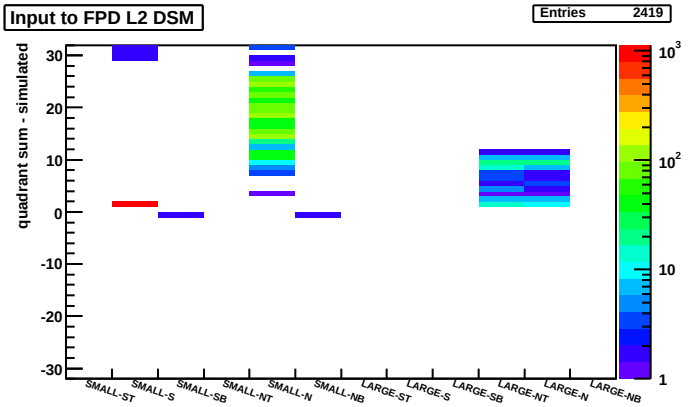

Input to FMS L1 DSM
Entries 1.495312e+07
sumA
DSM board

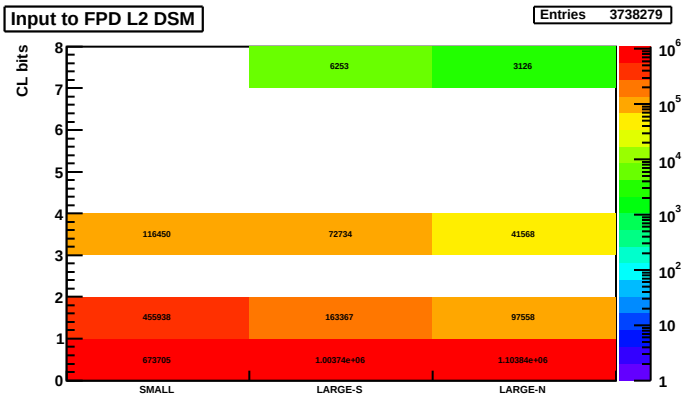

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

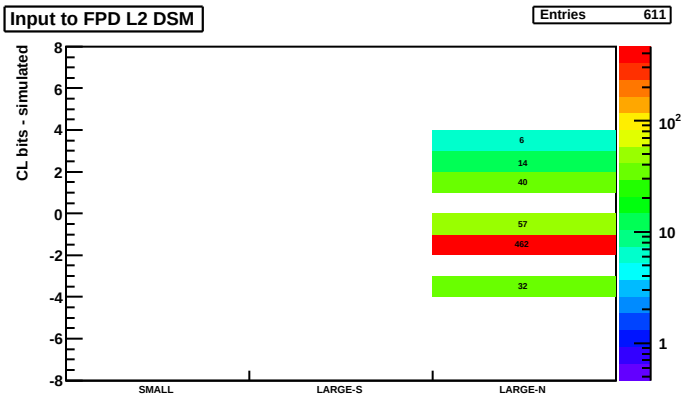

Input to FMS L1 DSM
Entries 1.495312e+07
FMS L1 HT bits
DSM board

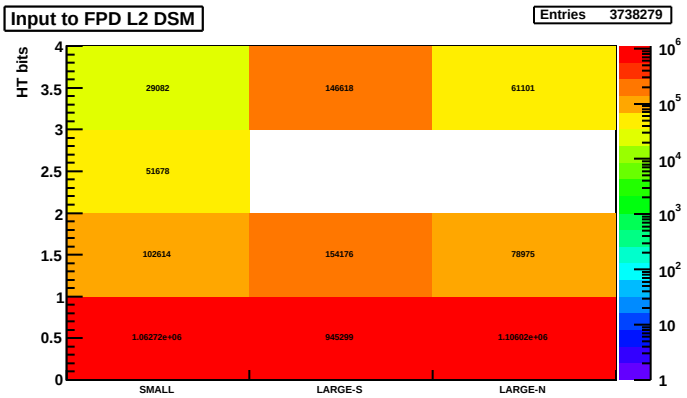

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

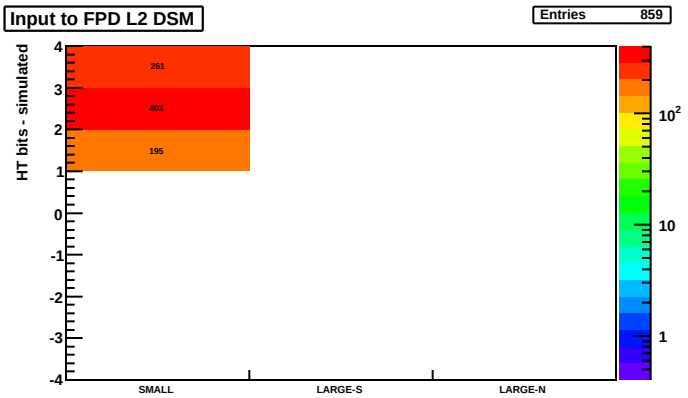

Input to FPD L2 DSM
Entries 1.495312e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

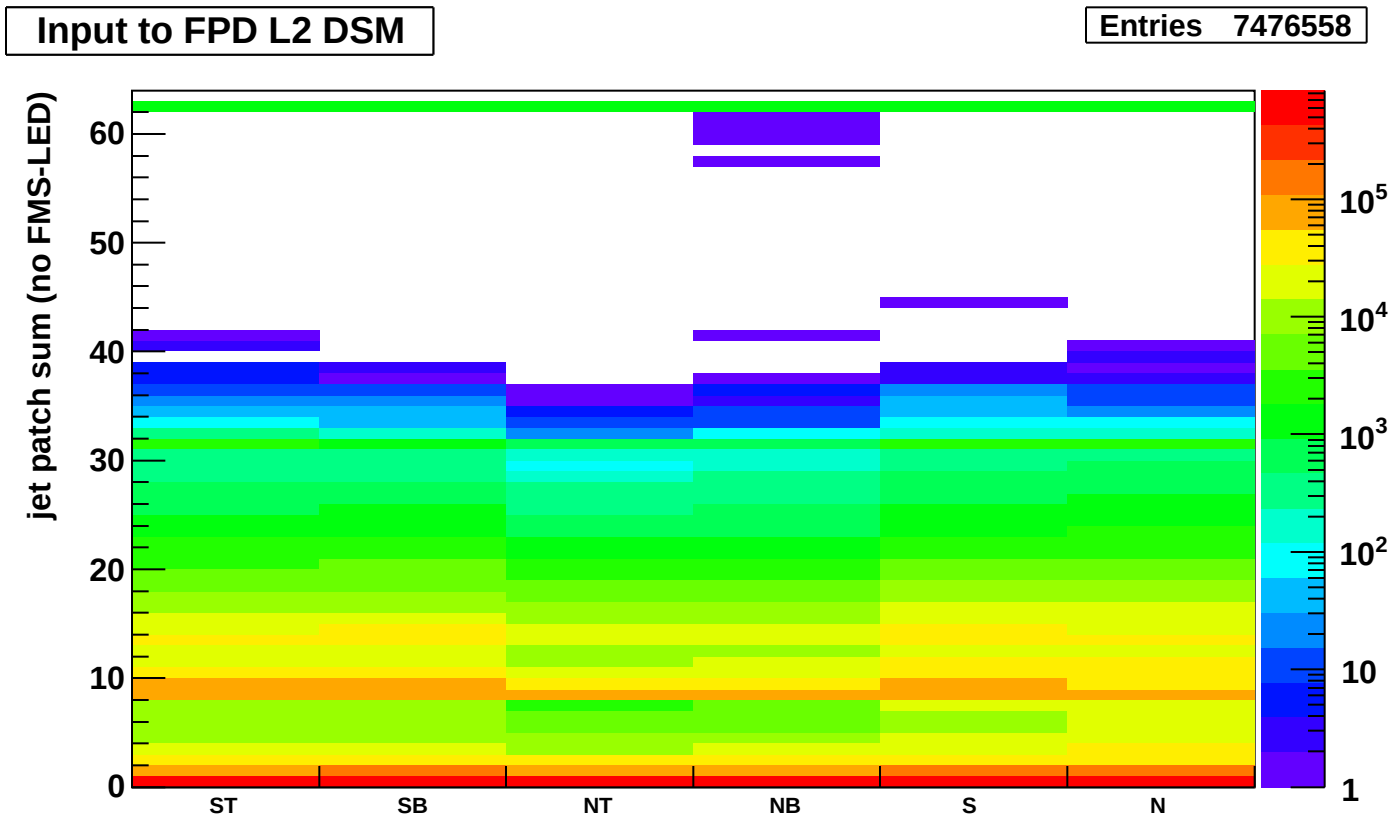

Input to FPD L2 DSM
Entries 2419
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

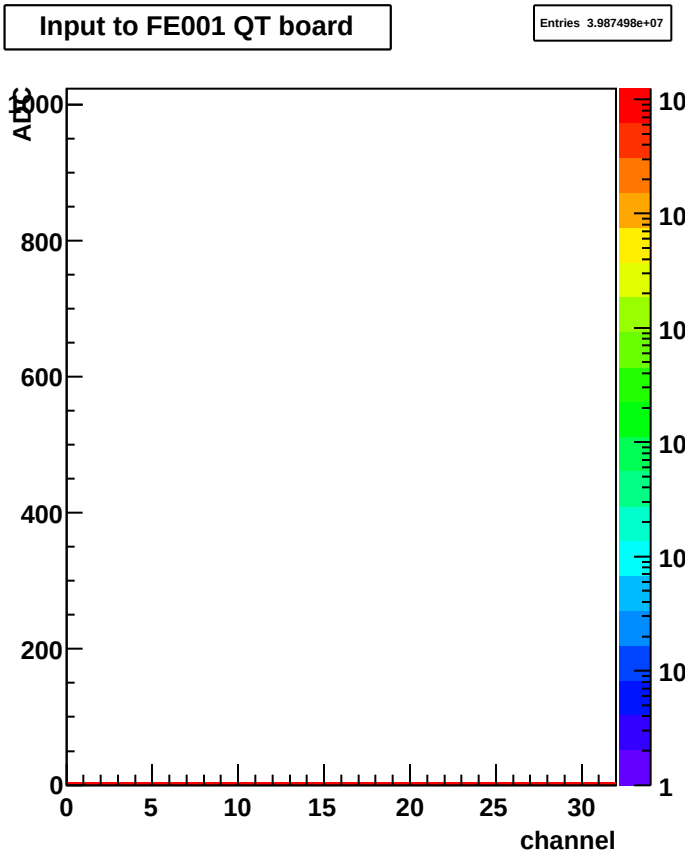

Input to FPD L2 DSM
Entries 3738279
CL bits
6253
3126
116450
72734
41568
455938
163367
97558
673705
1.00374e+06
1.10384e+06
SMALL
LARGE-S
LARGE-N

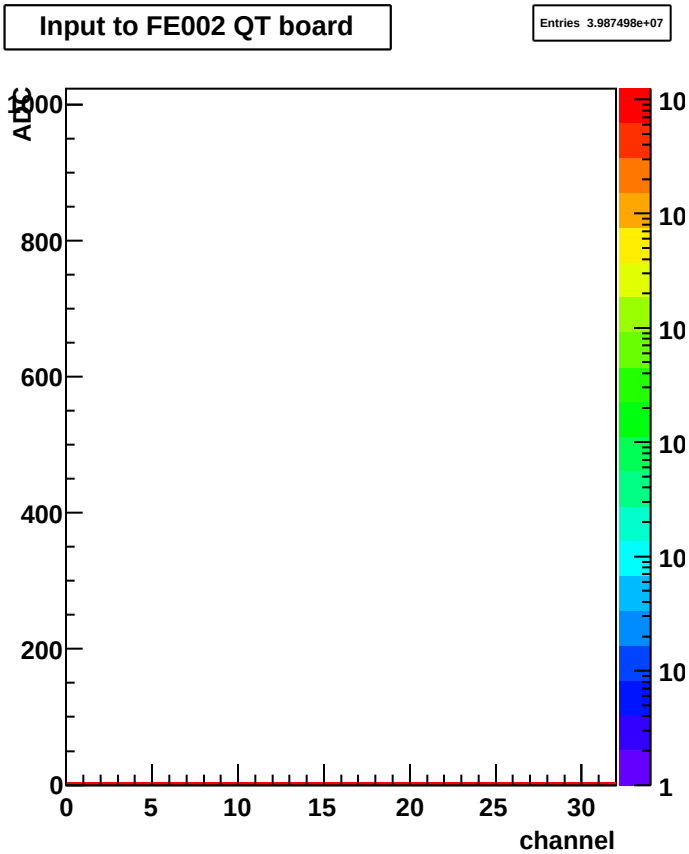

Input to FPD L2 DSM
Entries 611
CL bits - simulated
6
14
40
57
462
32
SMALL
LARGE-S
LARGE-N

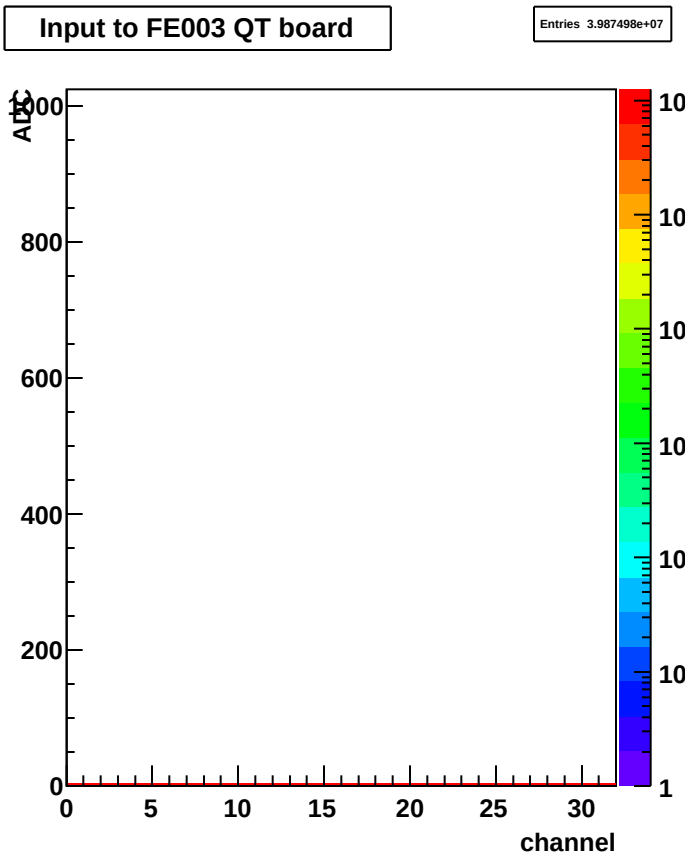

Input to FPD L2 DSM
Entries 3738279
HT bits
29082
146618
61101
51678
102614
154176
78975
1.06272e+06
945299
1.10602e+06
SMALL
LARGE-S
LARGE-N

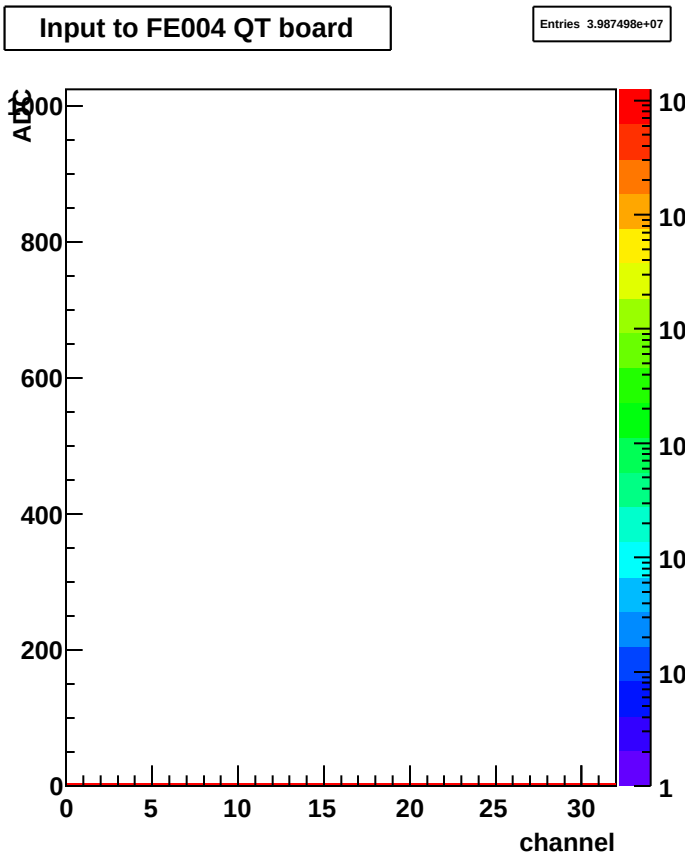

Input to FPD L2 DSM
Entries 859
HT bits - simulated
261
403
195
SMALL
LARGE-S
LARGE-N

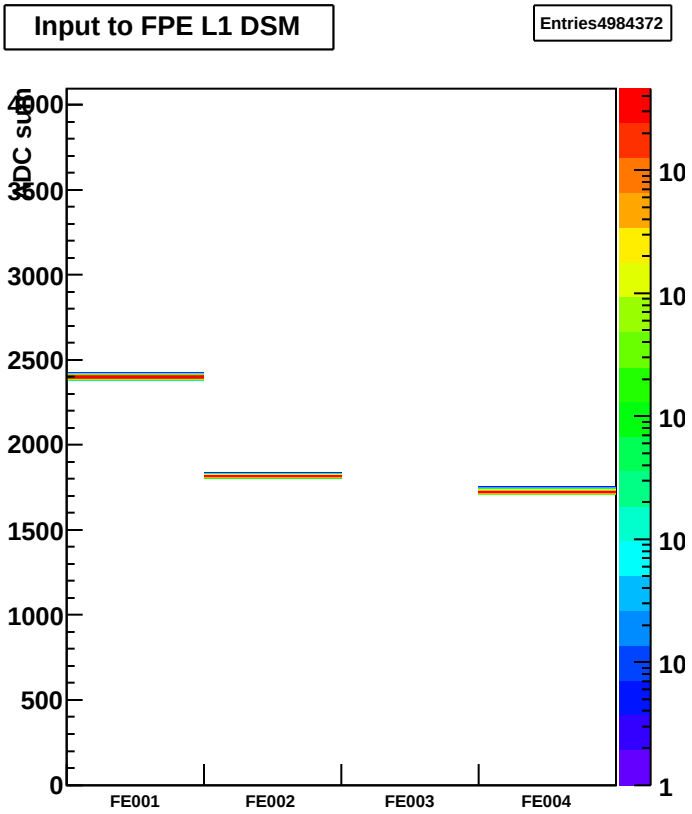

Input to FPD L2 DSM
Entries 7476558
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

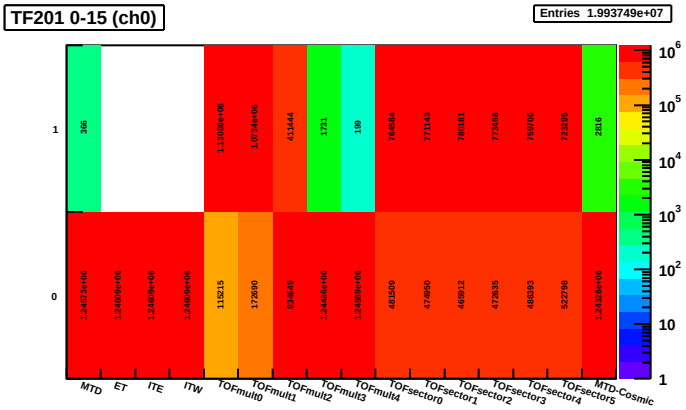

Input to FE001 QT board
Entries 3.987498e+07
ADC
channel

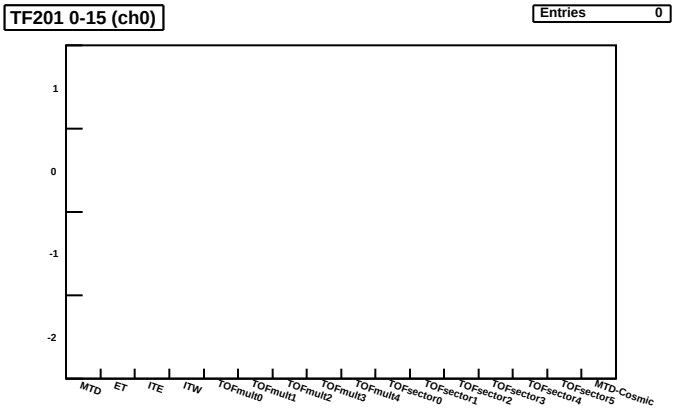

Input to FE002 QT board
Entries 3.987498e+07
ADC
channel

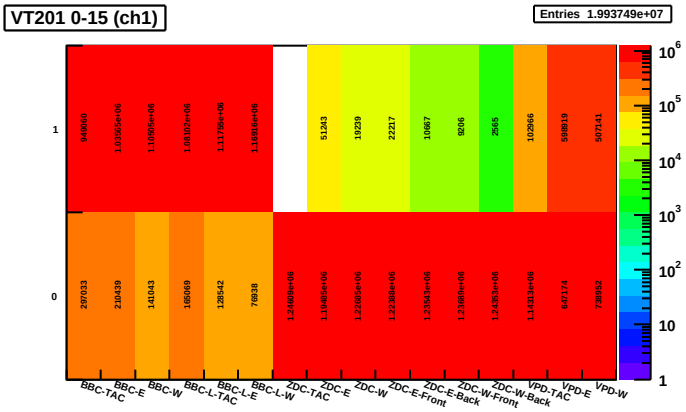

Input to FE003 QT board
Entries 3.987498e+07
ADC
channel


Input to FE004 QT board
Entries 3.987498e+07
ADC
channel


Input to FPE L1 DSM
Entries4984372
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 1.993749e+07
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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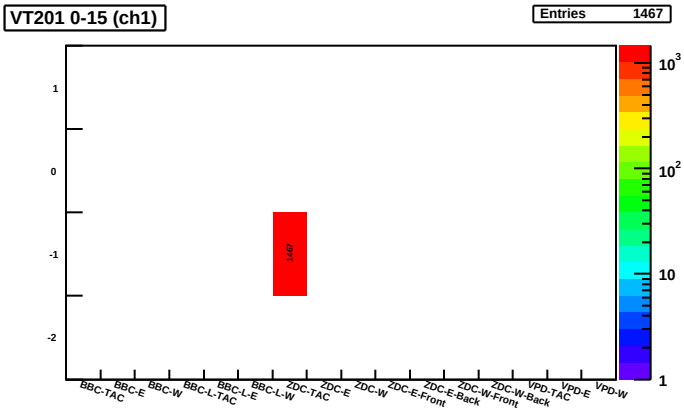
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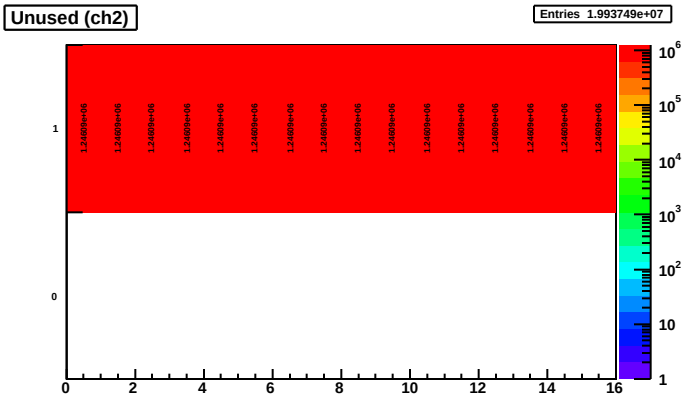
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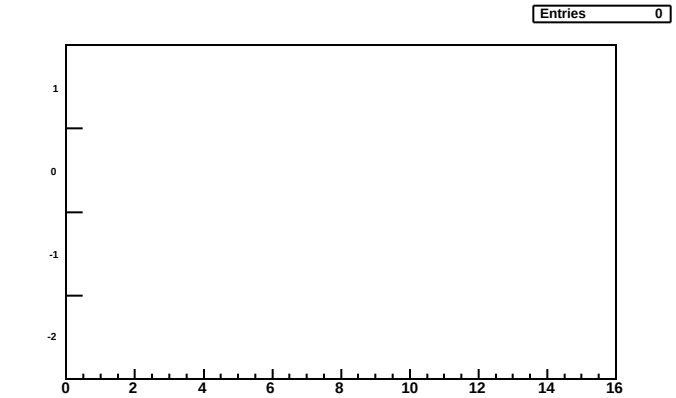
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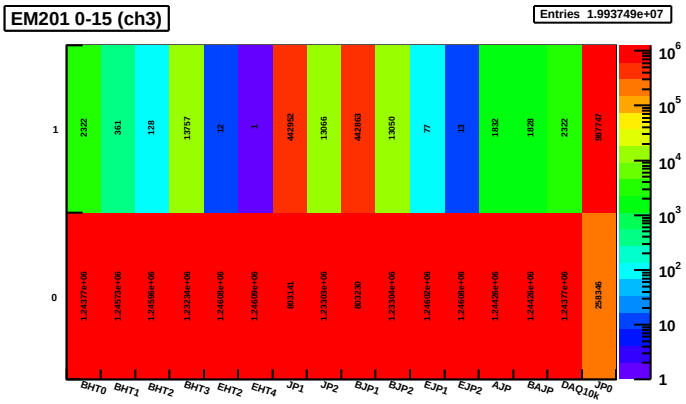
EM201 0-15 (ch3)
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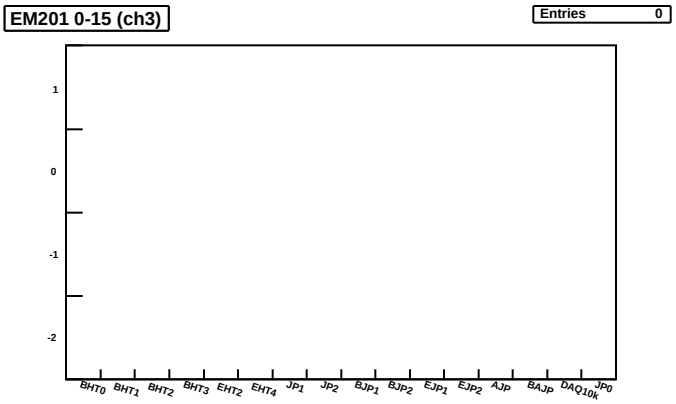
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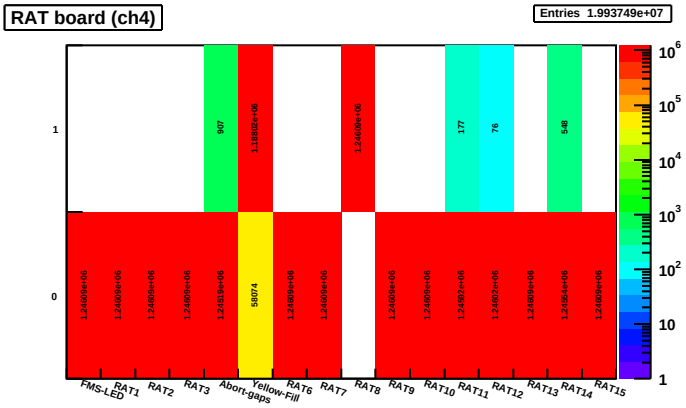
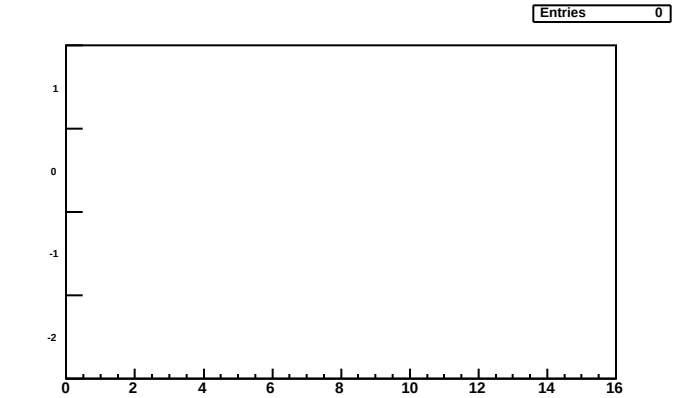
RAT board (ch4)





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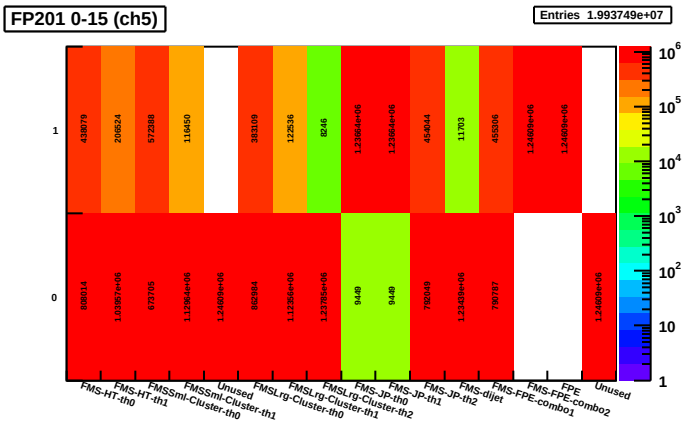

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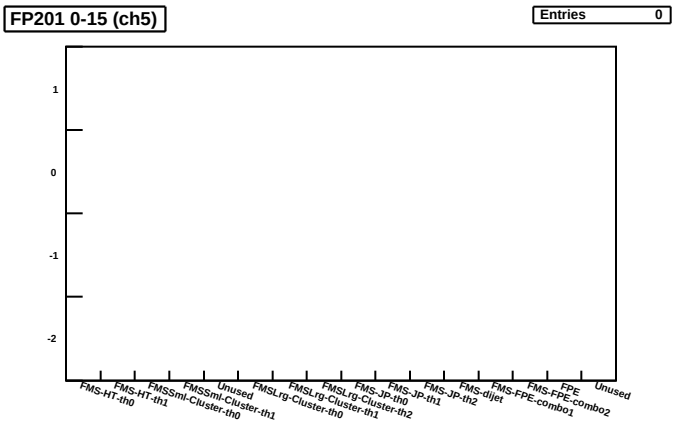
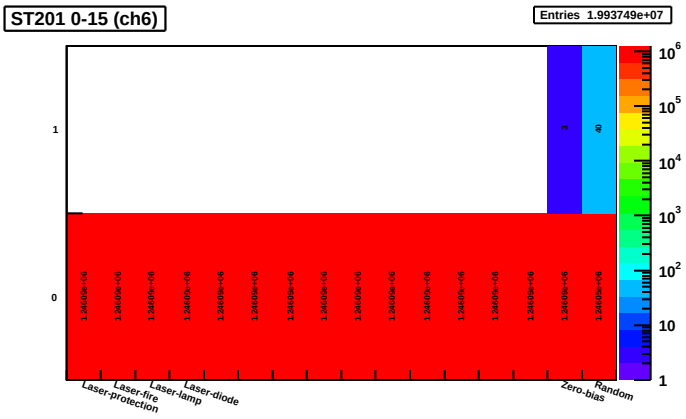
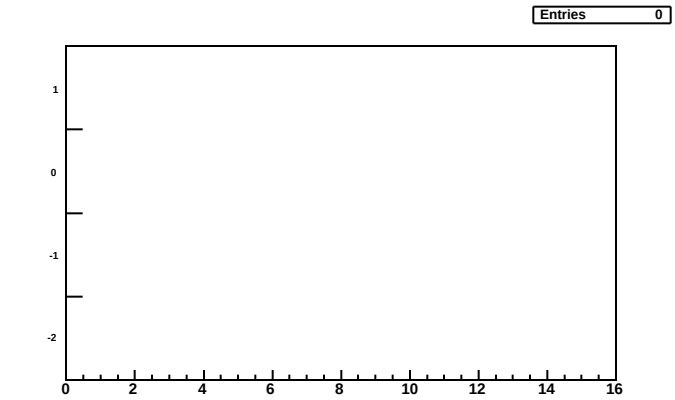
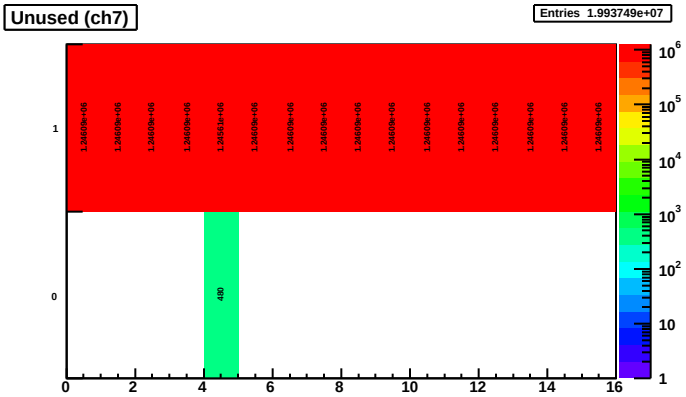
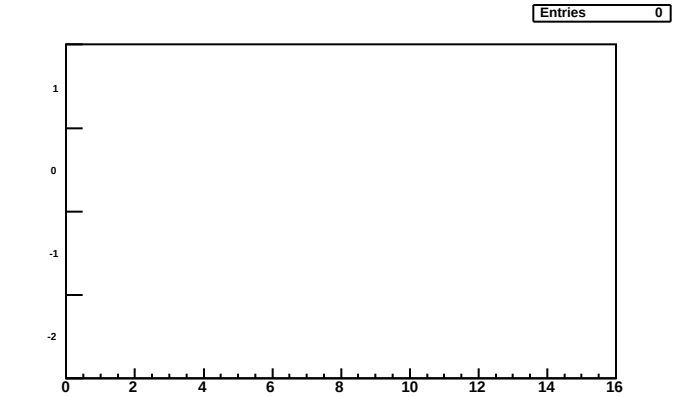


ST201 0-15 (ch6)





Unused (ch7)