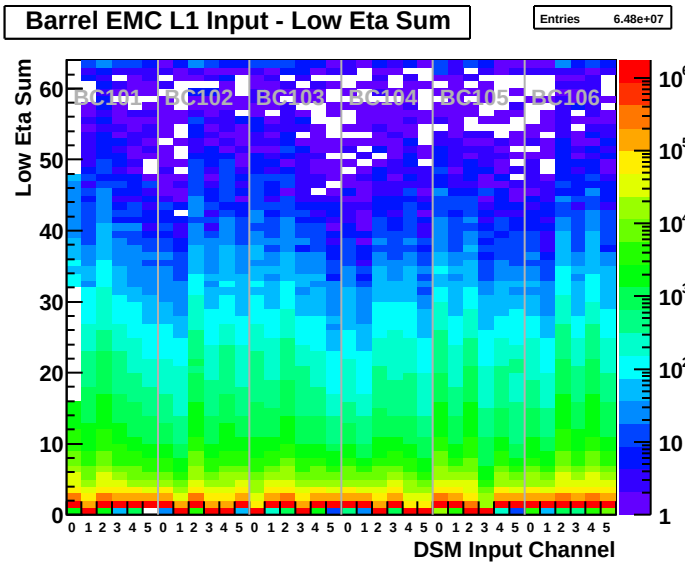
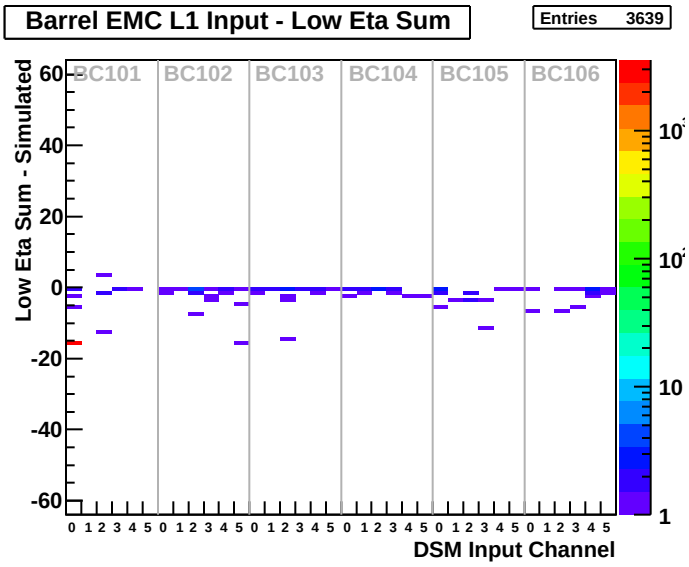
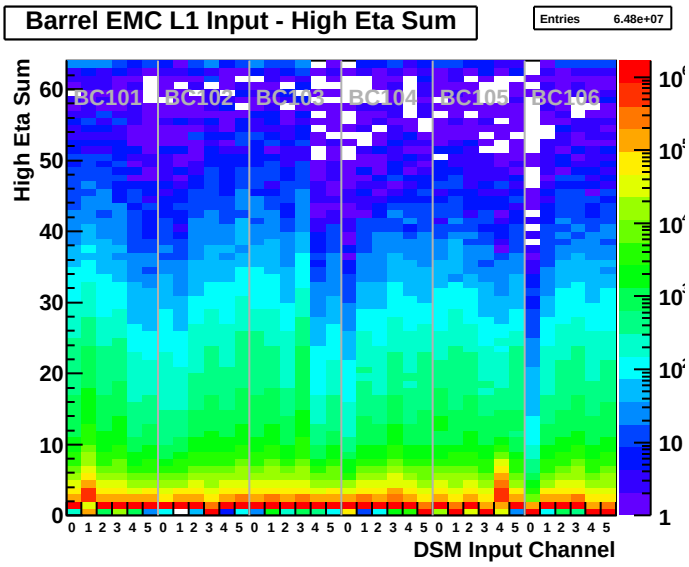
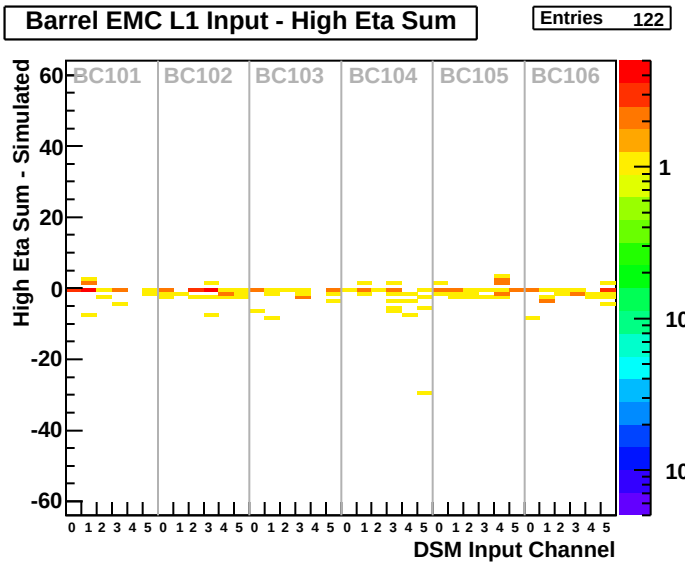
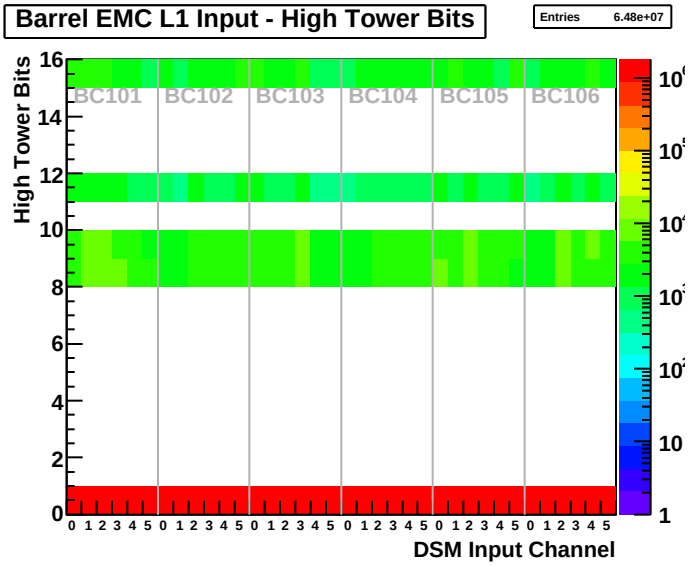
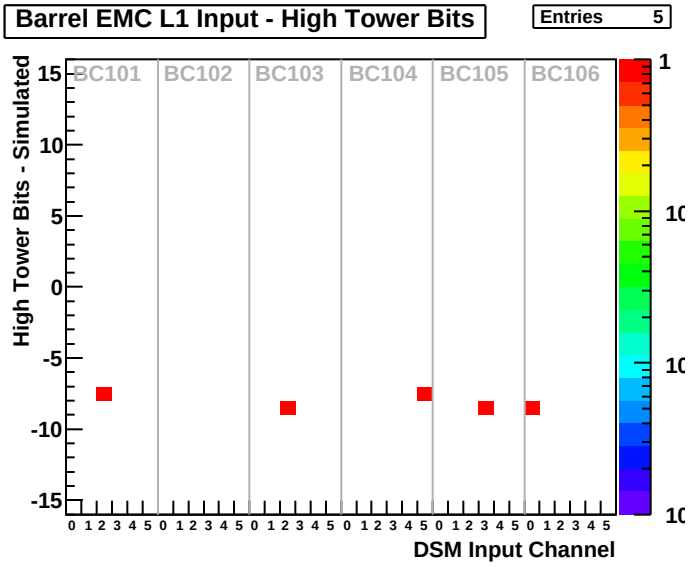

Barrel EMC L1 Input - Low Eta Sum
Entries 6.48e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

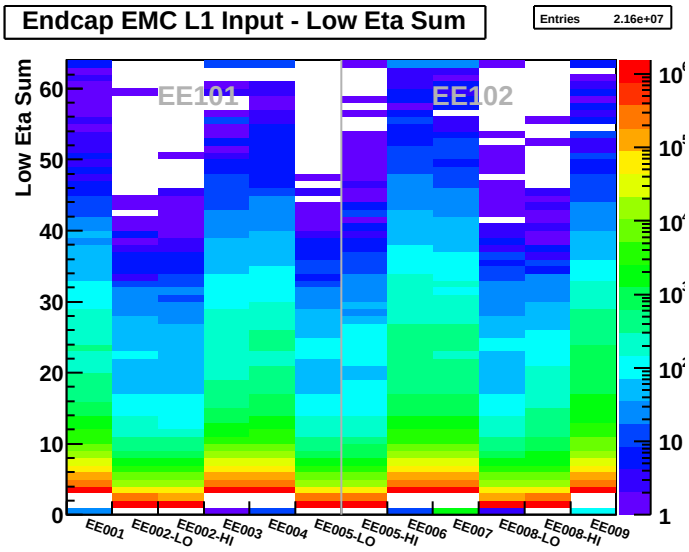

Barrel EMC L1 Input - Low Eta Sum
Entries 3639
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

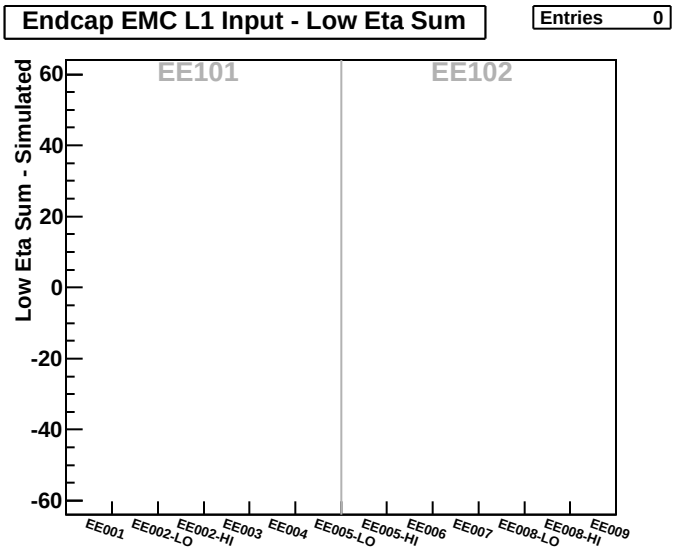

Barrel EMC L1 Input - High Eta Sum
Entries 6.48e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

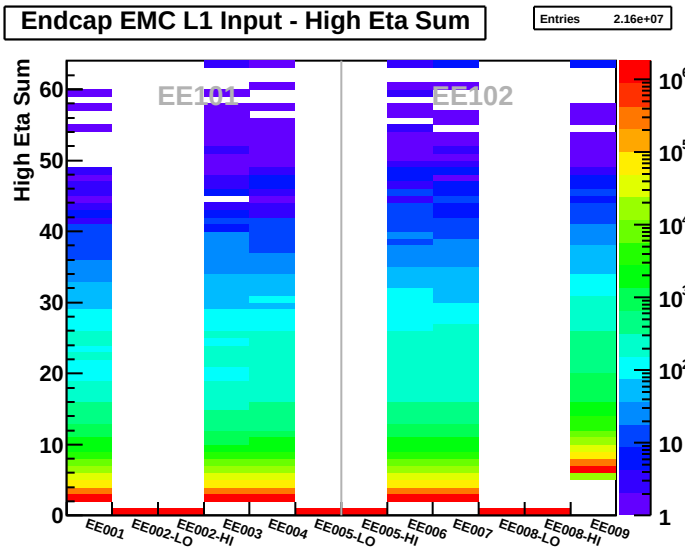

Barrel EMC L1 Input - High Eta Sum
Entries 122
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

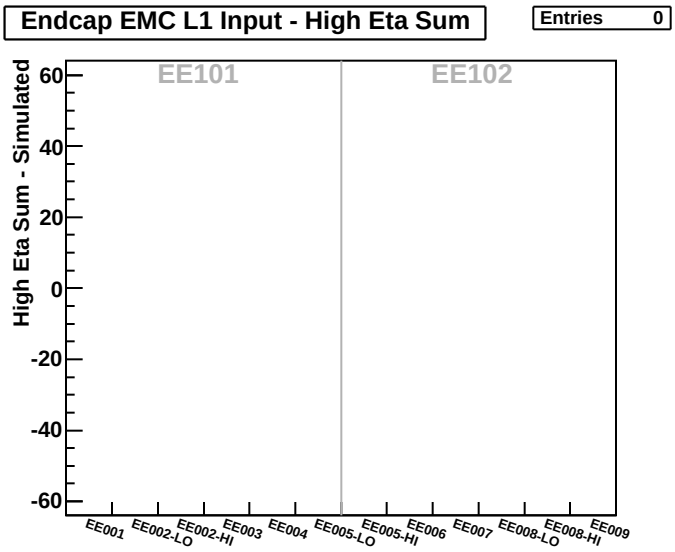

Barrel EMC L1 Input - High Tower Bits
Entries 6.48e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

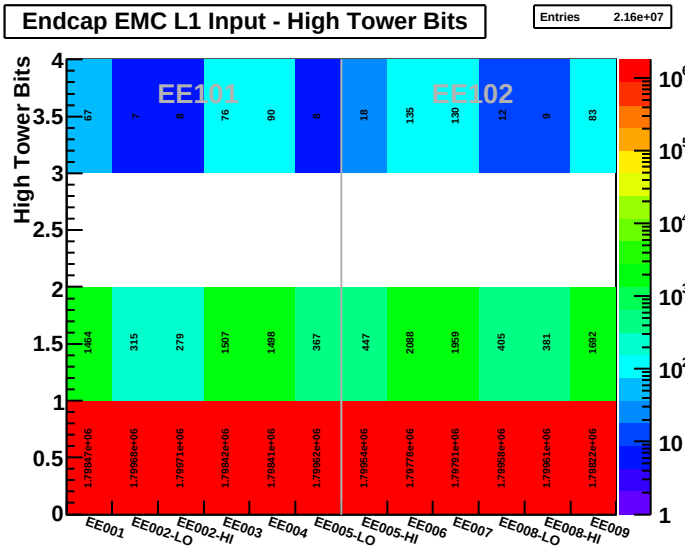

Barrel EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

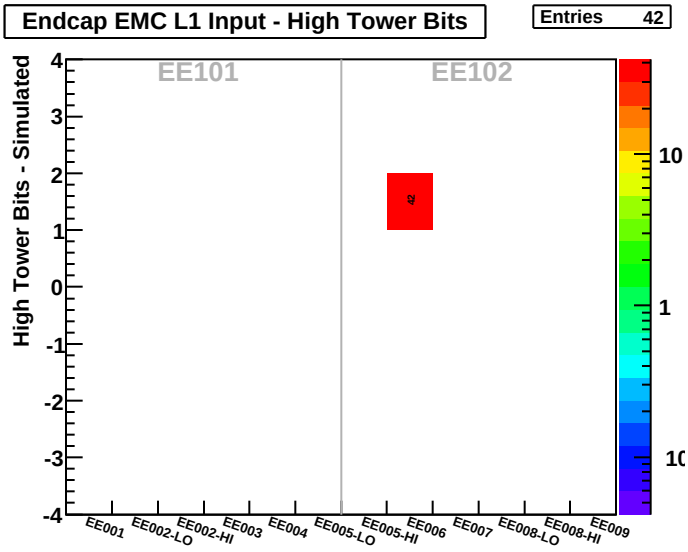

Endcap EMC L1 Input - Low Eta Sum
Entries 2.16e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

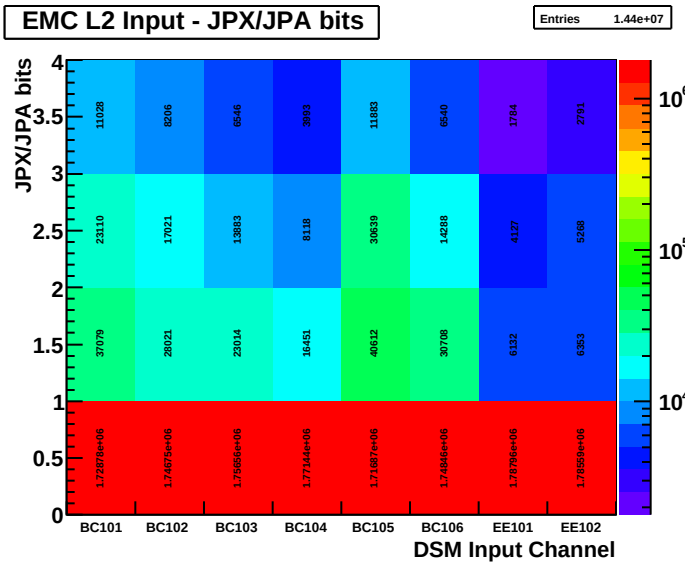

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

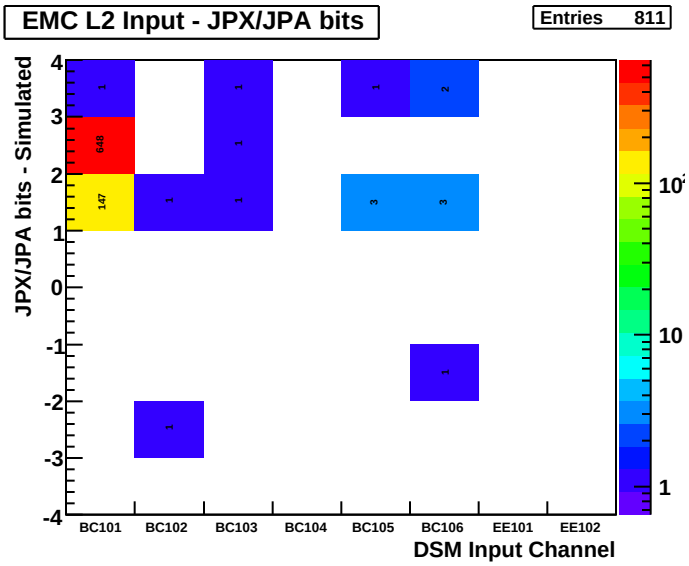

Endcap EMC L1 Input - High Eta Sum
Entries 2.16e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

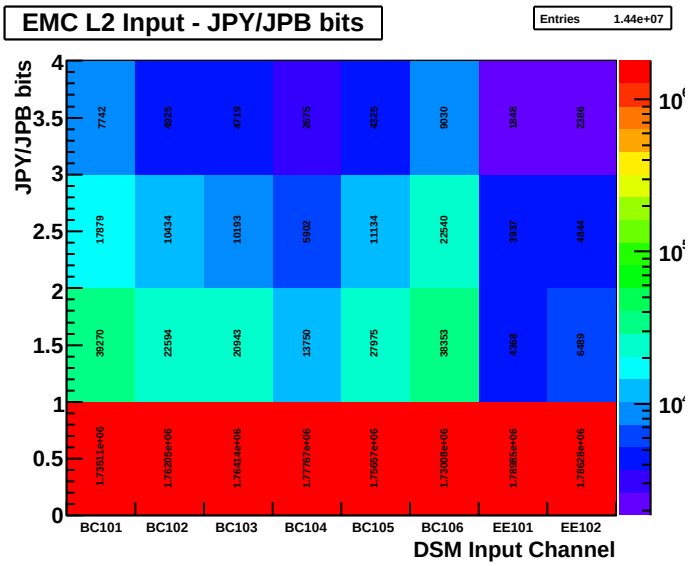

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

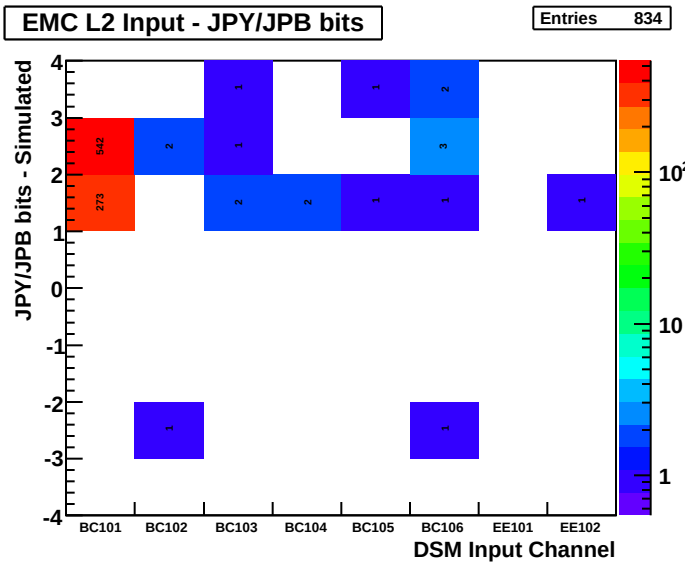

Endcap EMC L1 Input - High Tower Bits
Entries 2.16e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

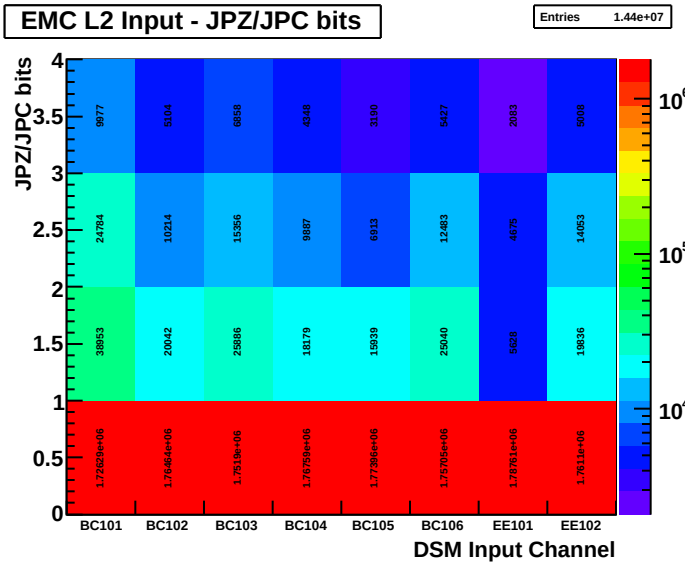

Endcap EMC L1 Input - High Tower Bits
Entries 42
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

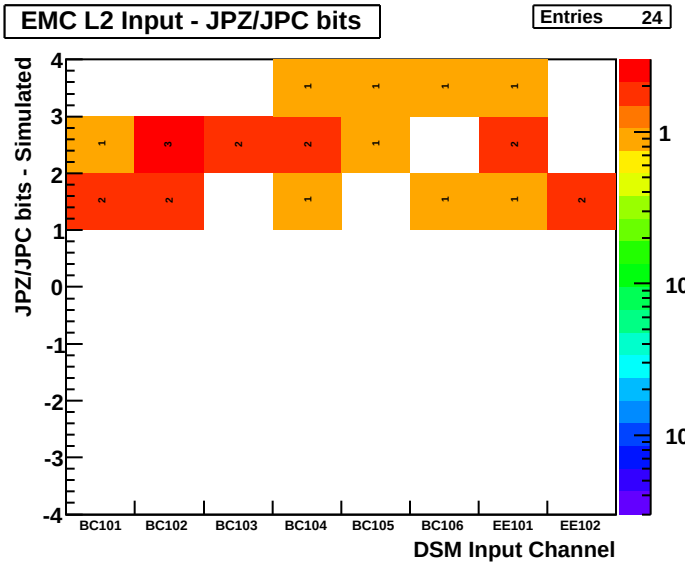

EMC L2 Input - JPX/JPA bits
Entries 1.44e+07
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

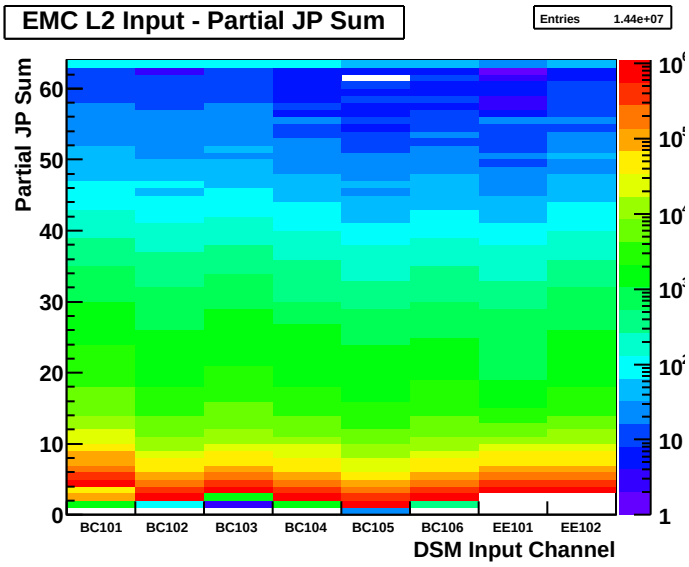

EMC L2 Input - JPX/JPA bits
Entries 811
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

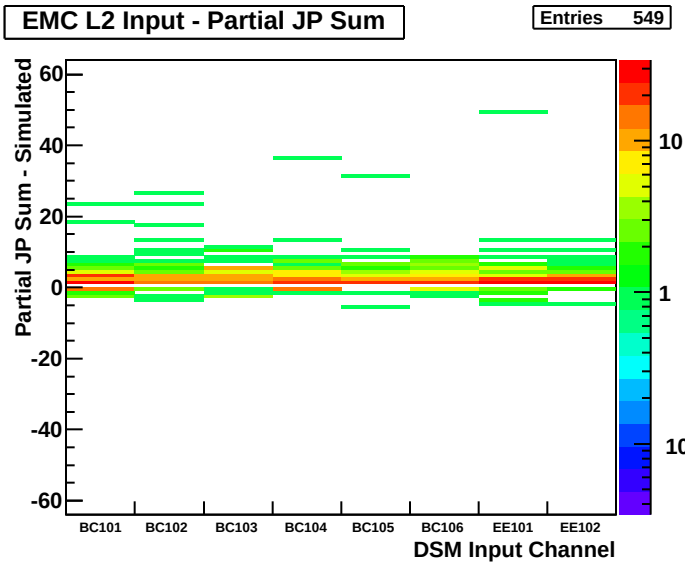

EMC L2 Input - JPY/JPB bits
Entries 1.44e+07
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

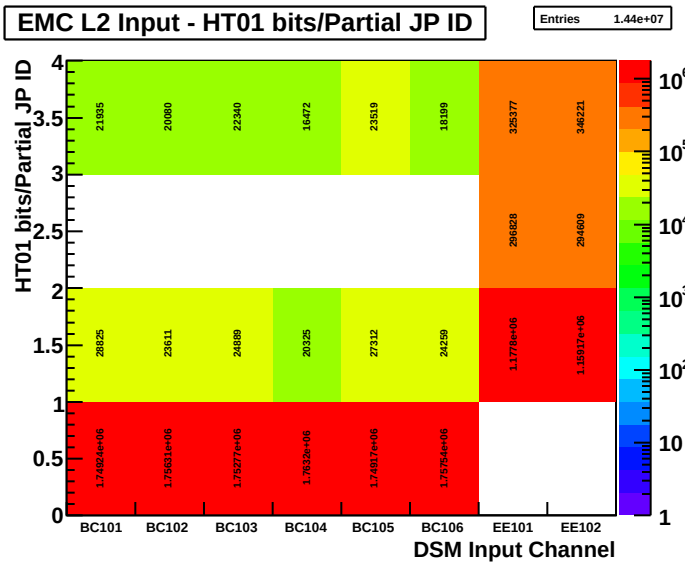

EMC L2 Input - JPY/JPB bits
Entries 834
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

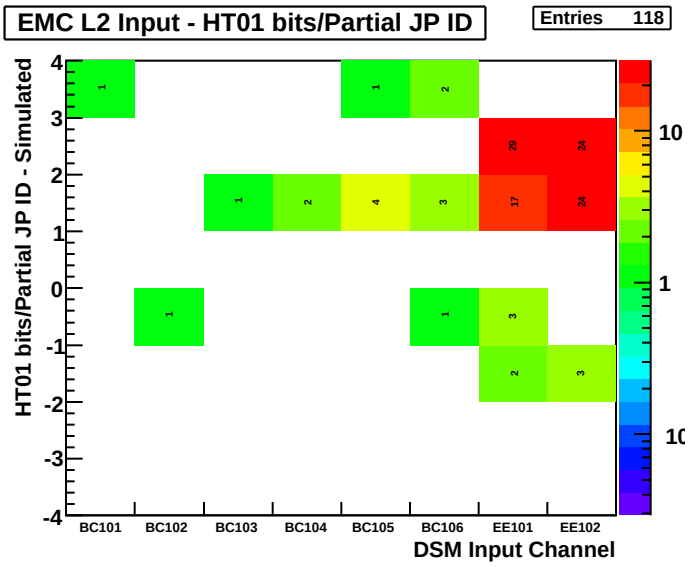

EMC L2 Input - JPZ/JPC bits
Entries 1.44e+07
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

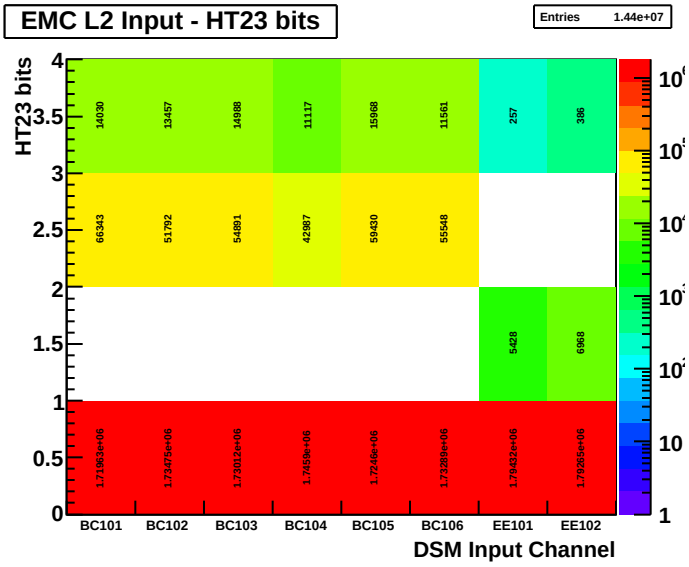

EMC L2 Input - JPZ/JPC bits
Entries 24
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

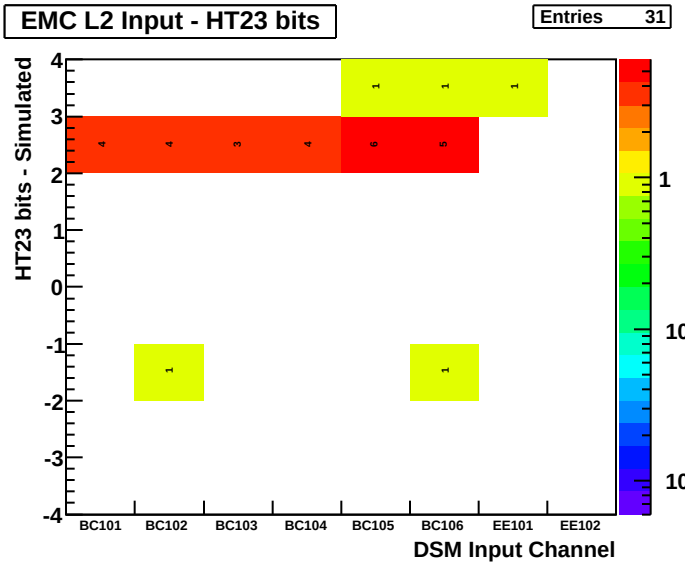

EMC L2 Input - Partial JP Sum
Entries 1.44e+07
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

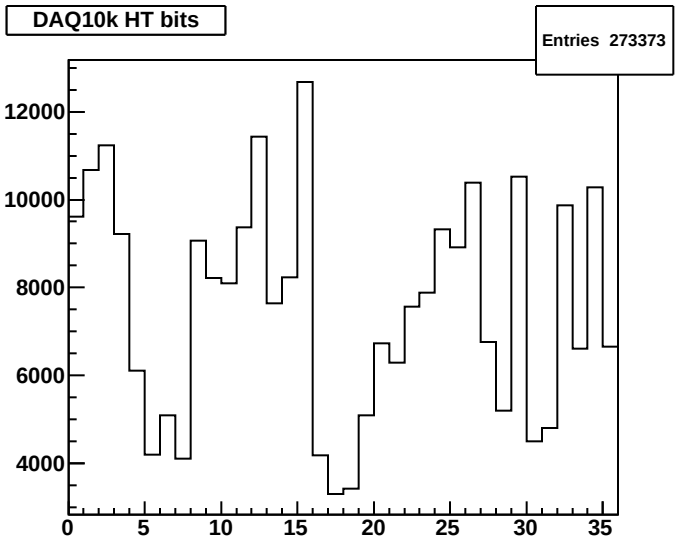

EMC L2 Input - Partial JP Sum
Entries 549
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

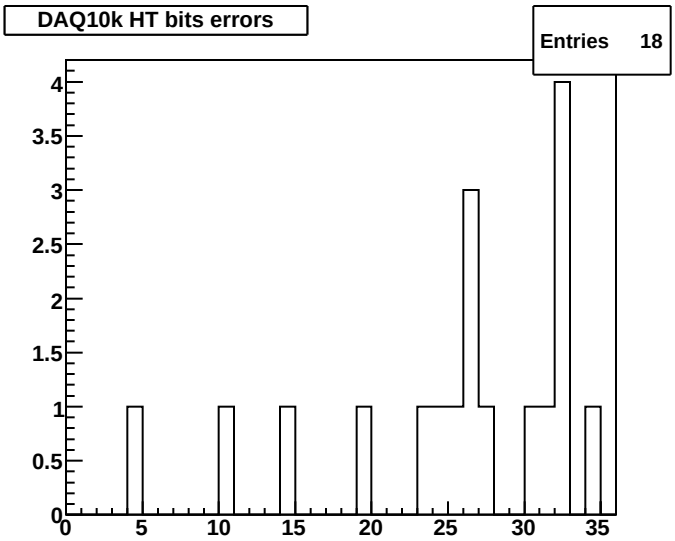

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1.44e+07
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

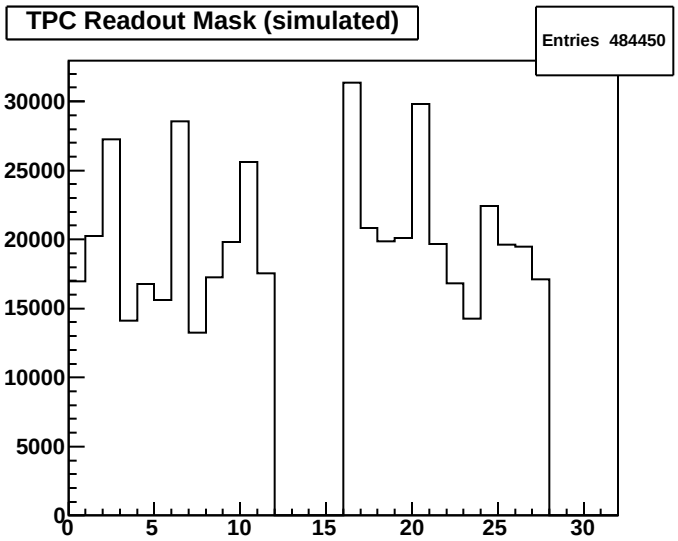

EMC L2 Input - HT01 bits/Partial JP ID
Entries 118
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

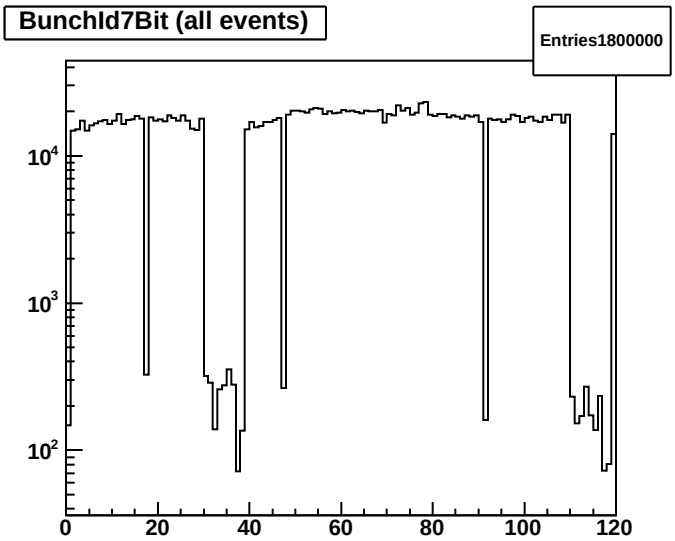

EMC L2 Input - HT23 bits
Entries 1.44e+07
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

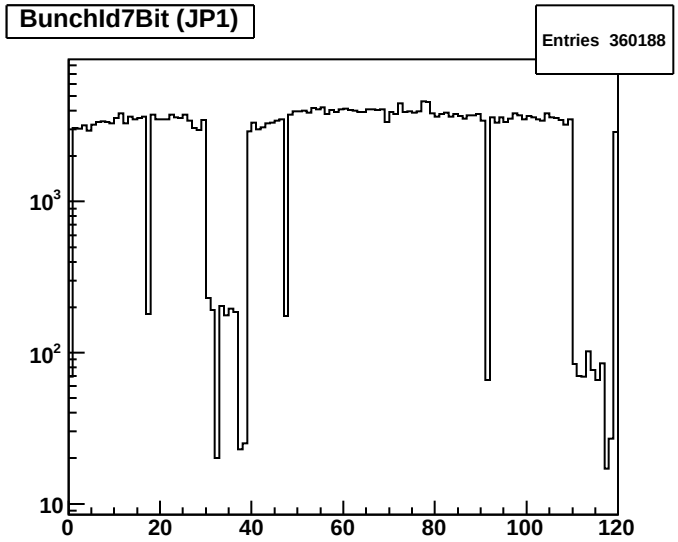

EMC L2 Input - HT23 bits
Entries 31
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

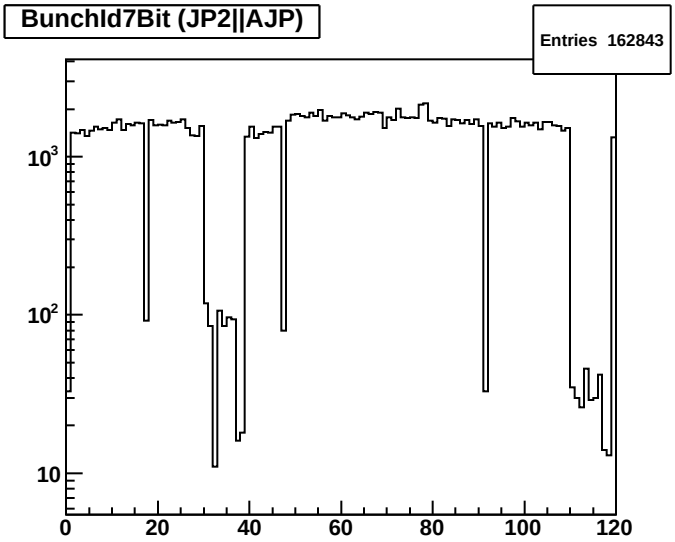

DAQ10k HT bits
Entries 273373

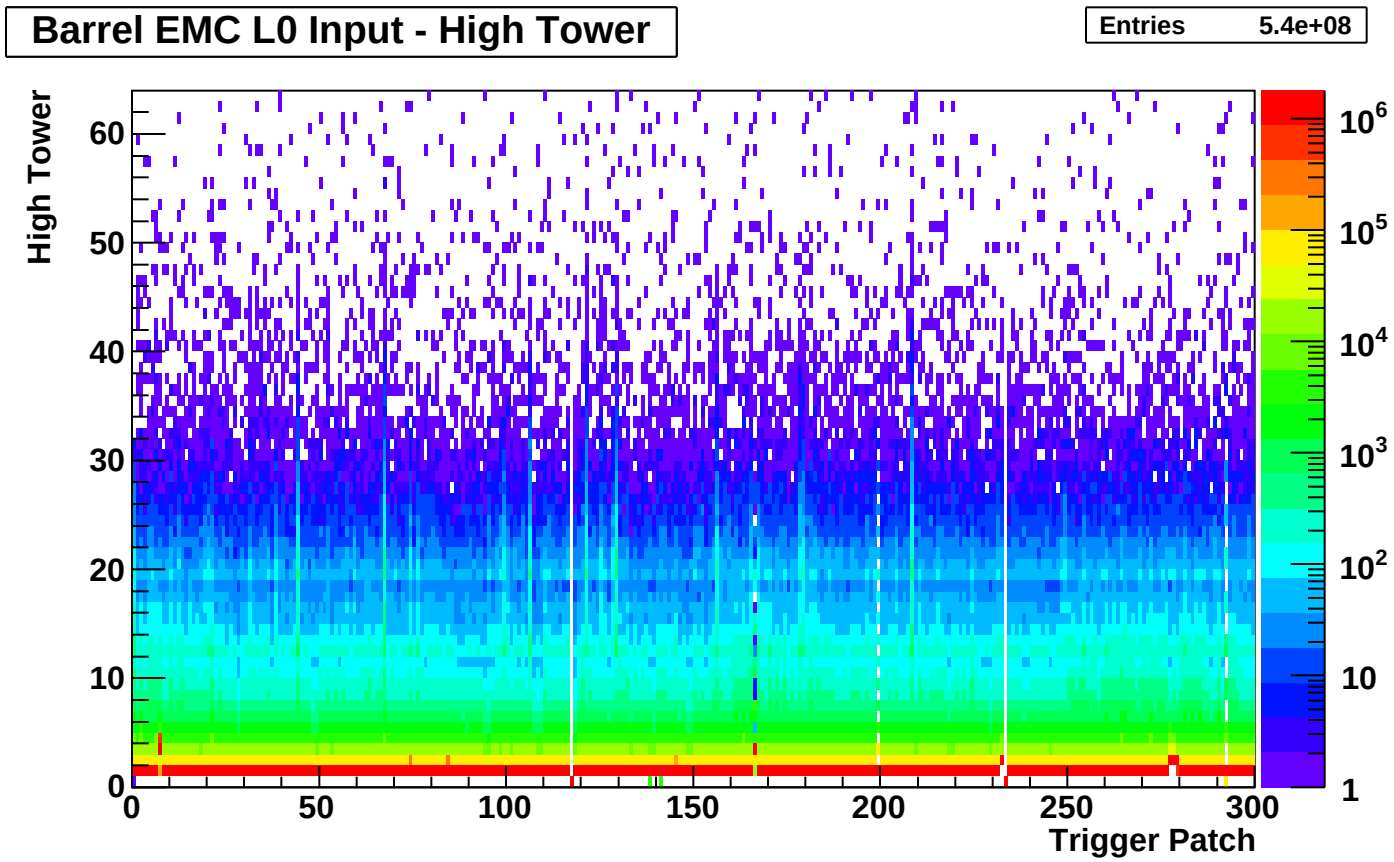

DAQ10k HT bits errors
Entries 18

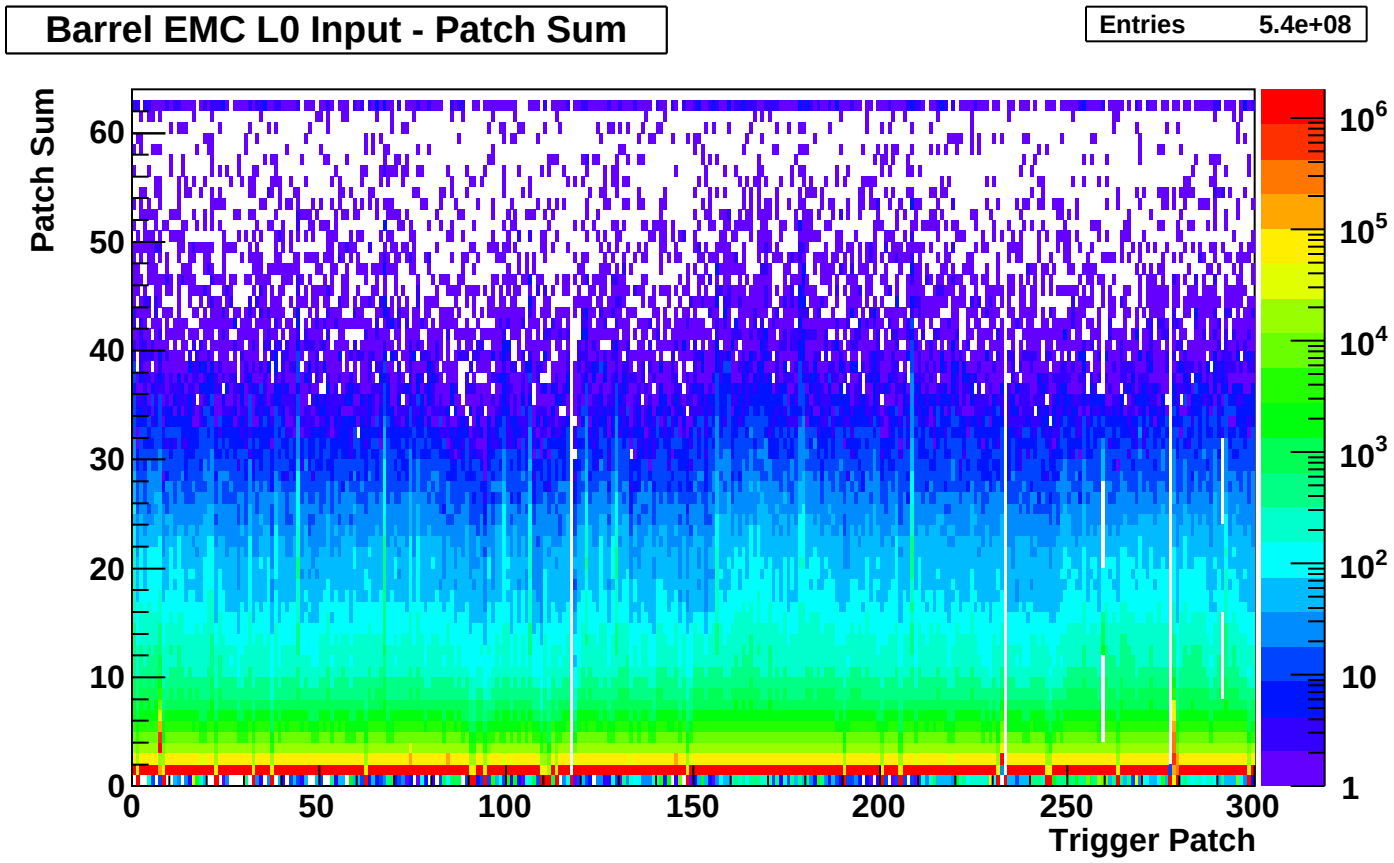

TPC Readout Mask (simulated)
Entries 484450

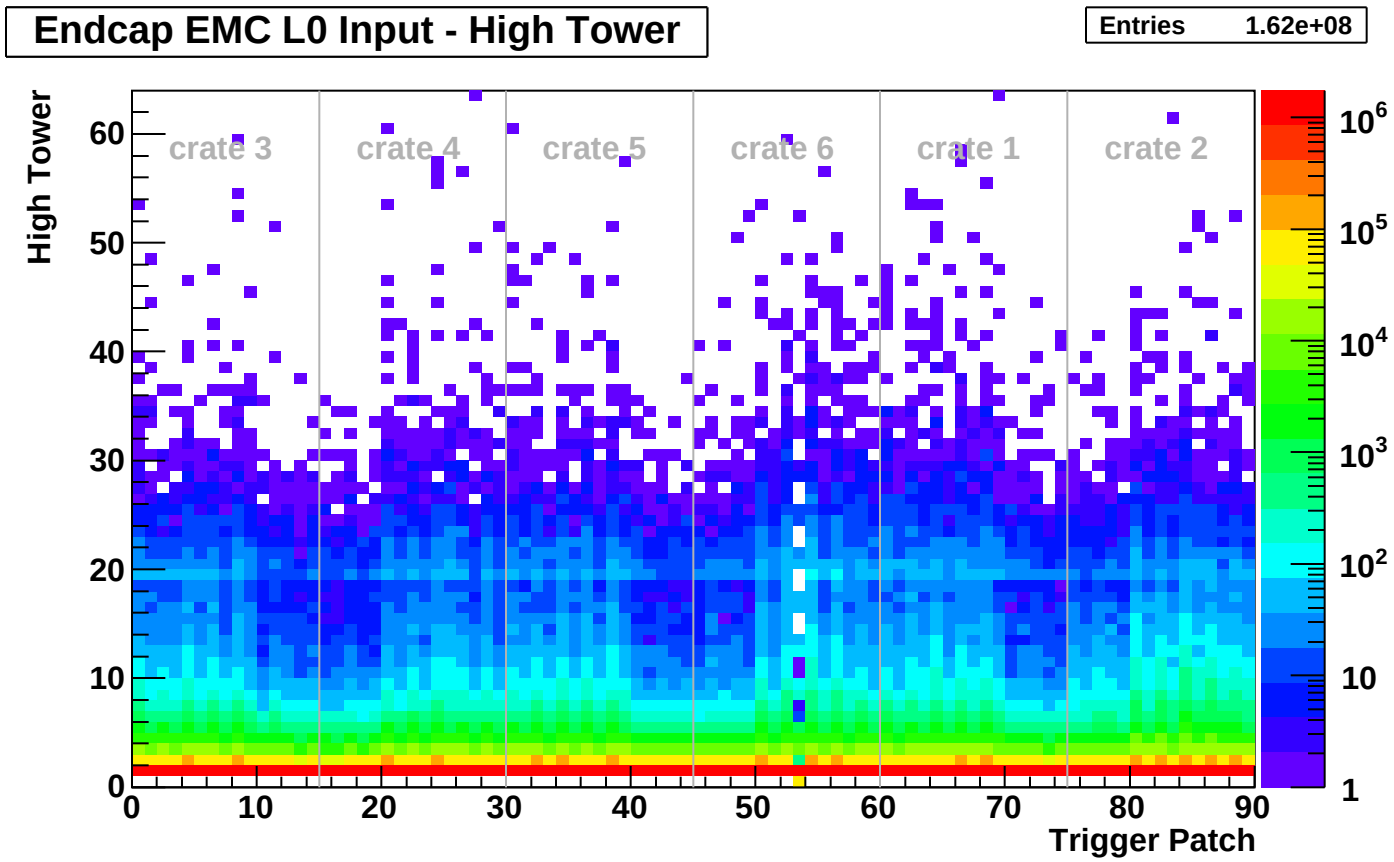

BunchId7Bit (all events)
Entries1800000

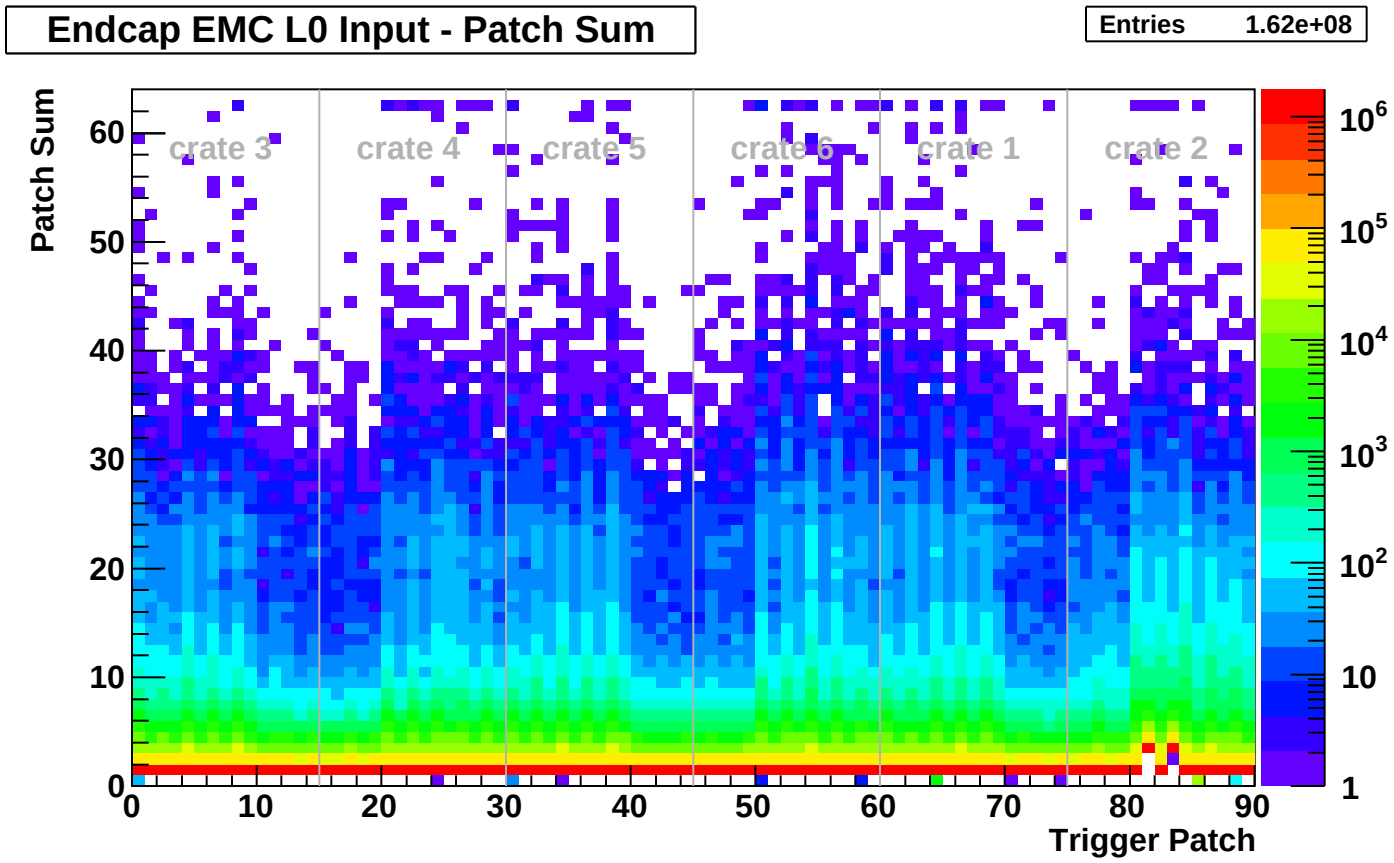

BunchId7Bit (JP1)
Entries 360188

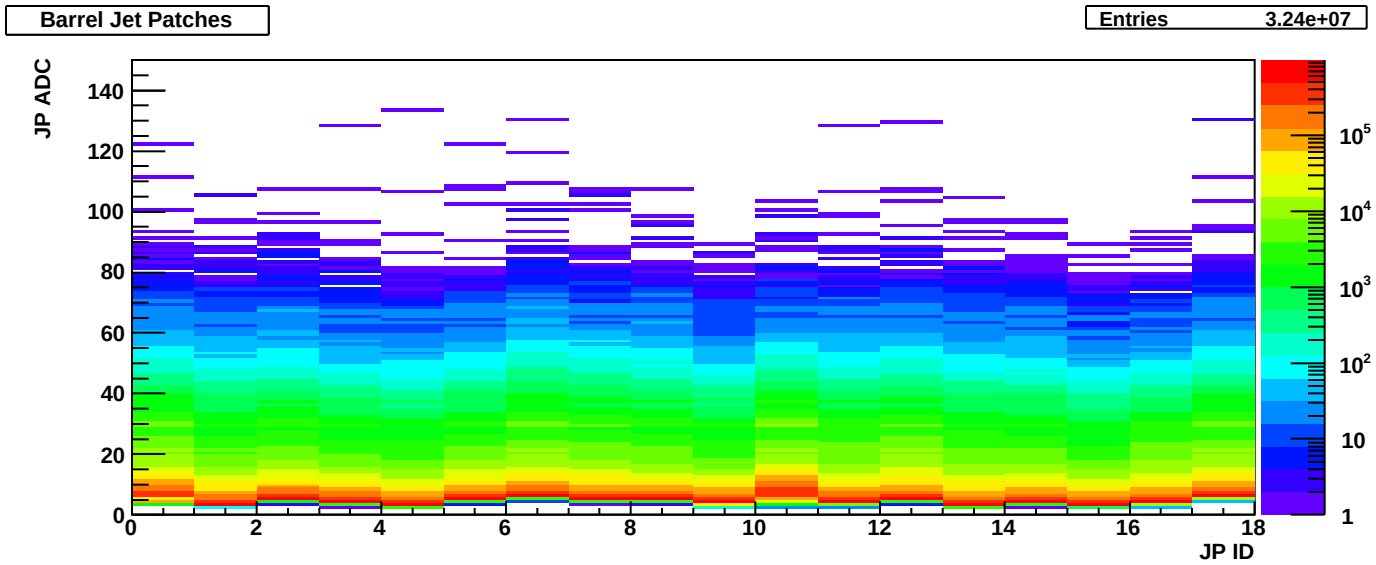

BunchId7Bit (JP2||AJP)
Entries 162843

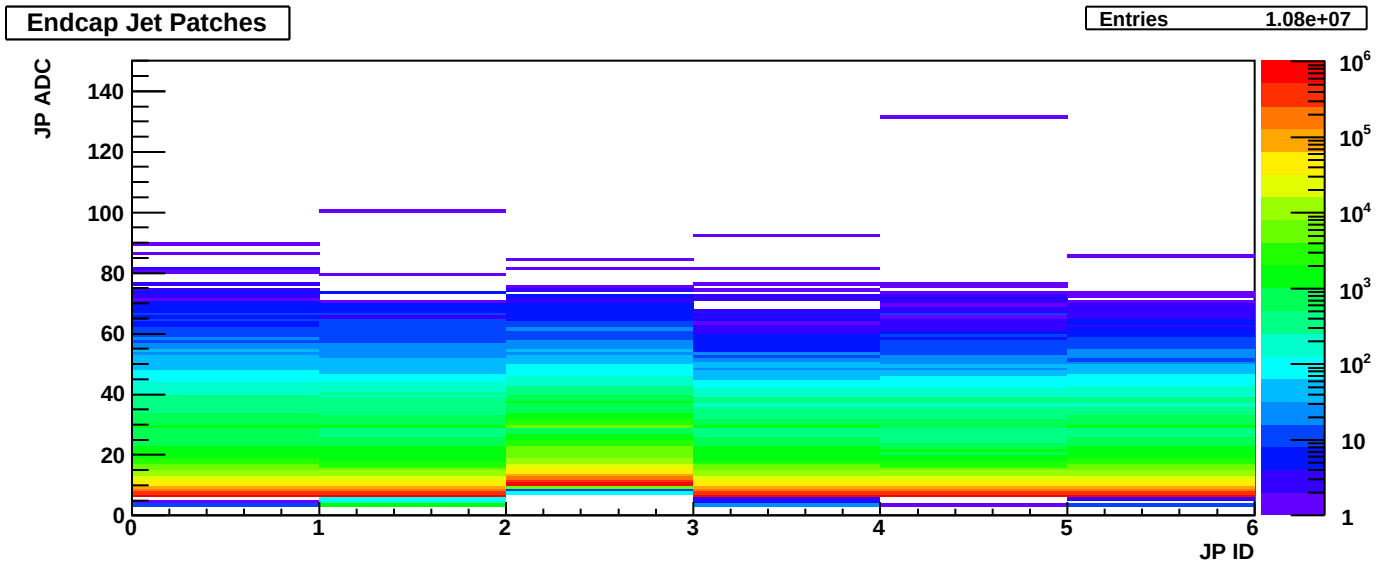

Barrel EMC L0 Input - High Tower
Entries 5.4e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

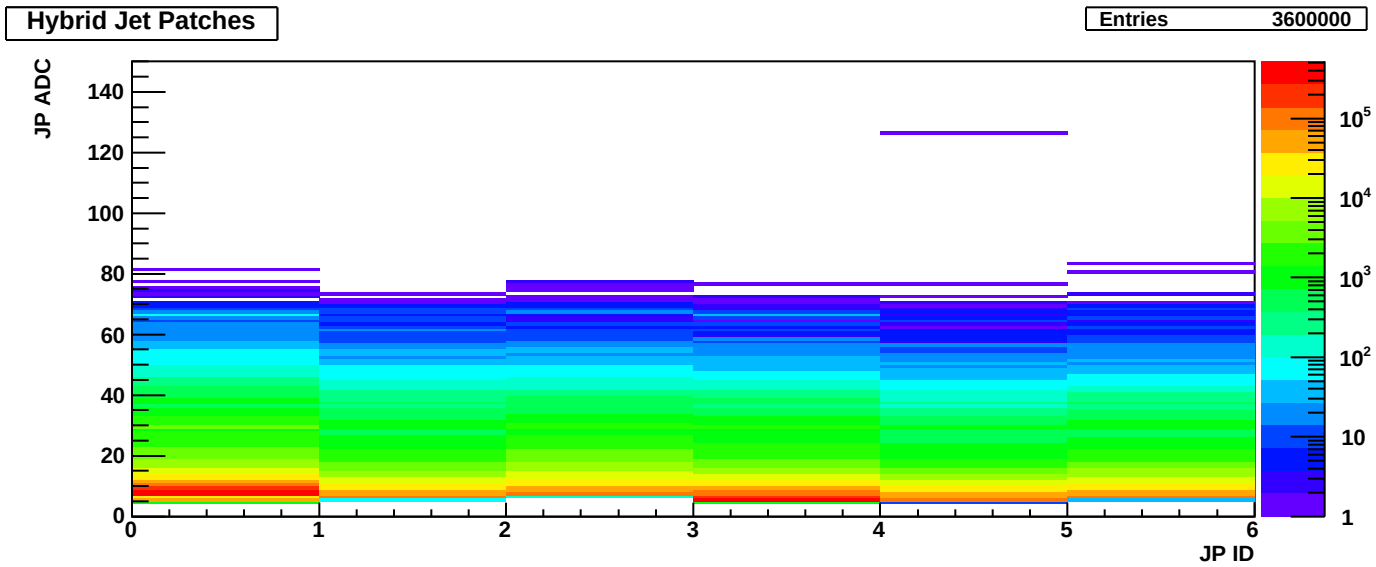

Barrel EMC L0 Input - Patch Sum
Entries 5.4e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

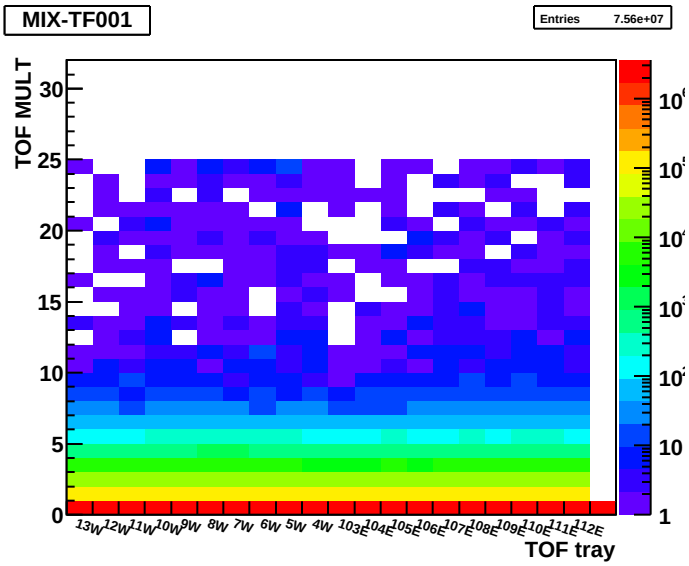

Endcap EMC L0 Input - High Tower
Entries 1.62e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

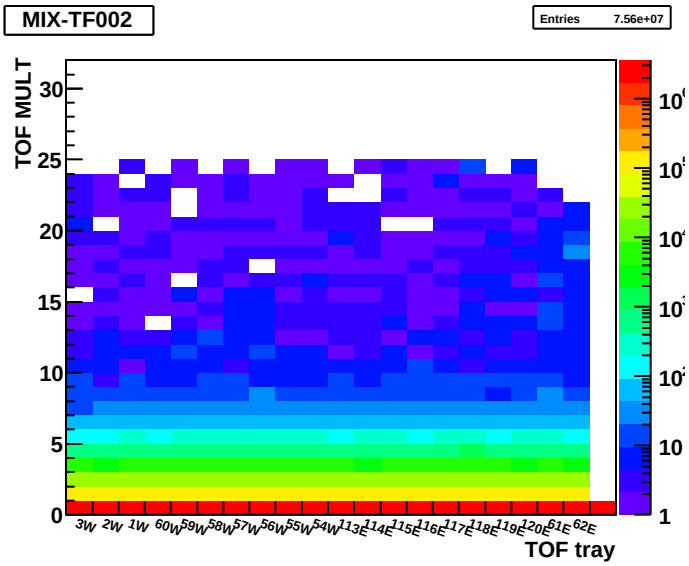

Endcap EMC L0 Input - Patch Sum
Entries 1.62e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

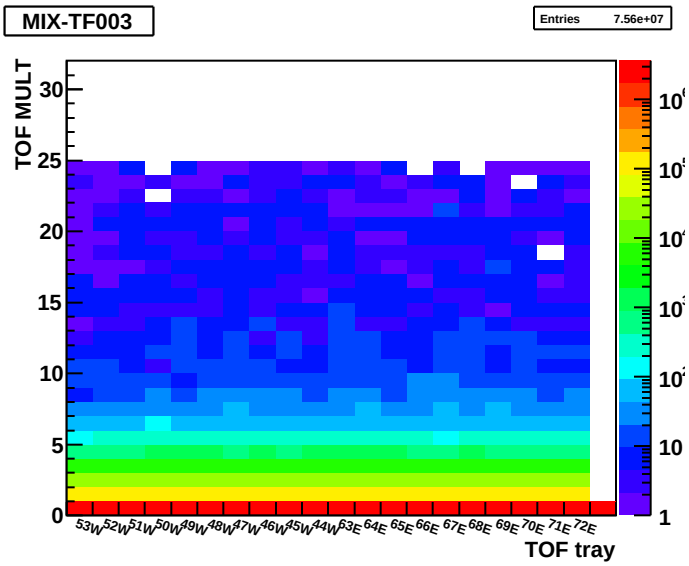

Barrel Jet Patches
Entries 3.24e+07
JP ADC
JP ID

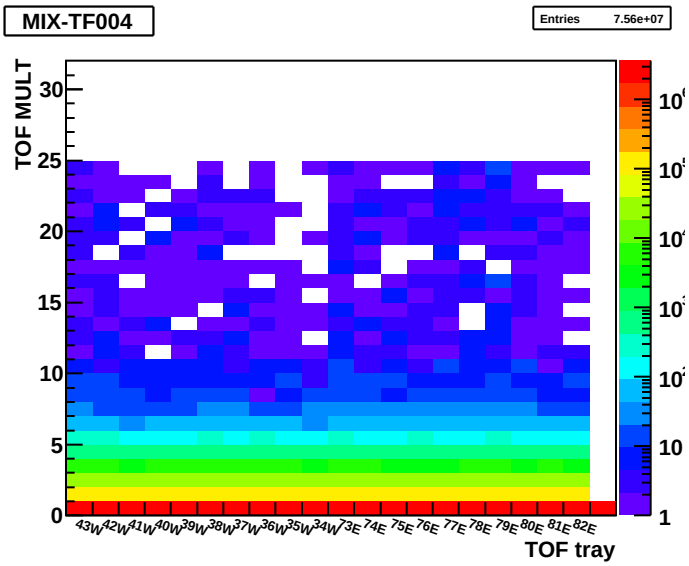

Endcap Jet Patches
Entries 1.08e+07
JP ADC
JP ID

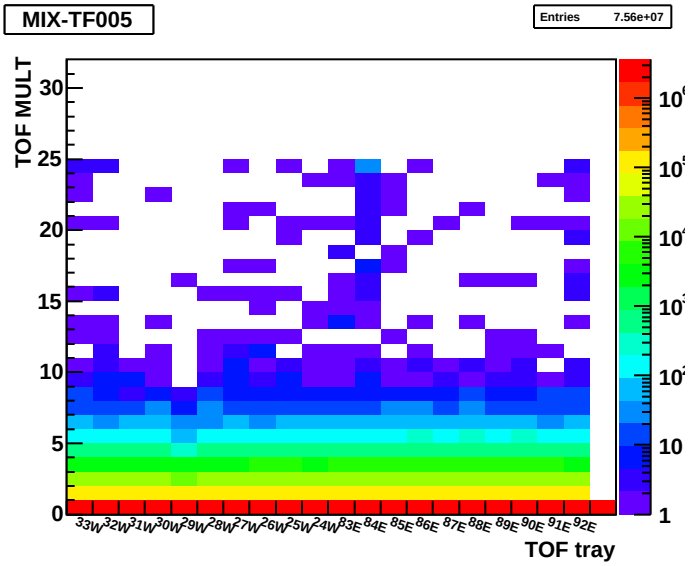

Hybrid Jet Patches
Entries 3600000
JP ADC
JP ID

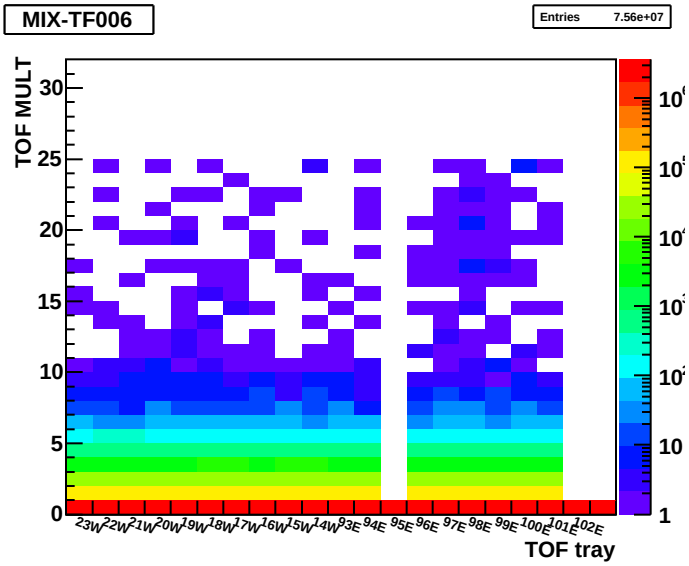

MIX-TF001
Entries 7.56e+07
TOF MULT
TOF tray

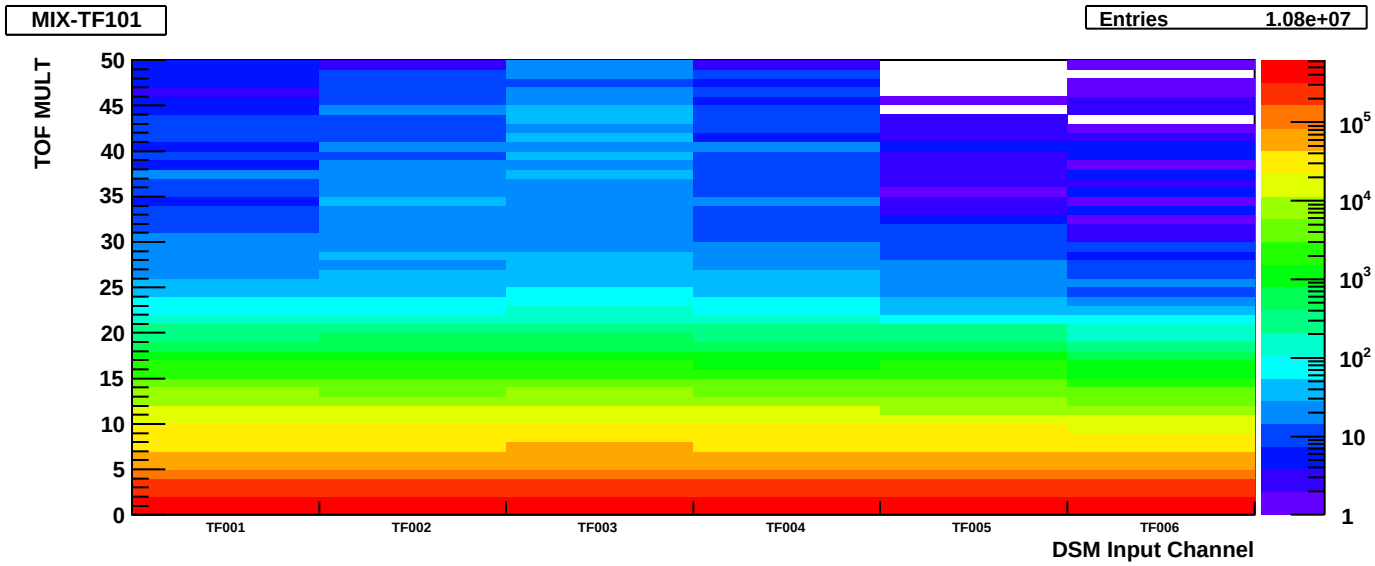

MIX-TF002
Entries 7.56e+07
TOF MULT
TOF tray

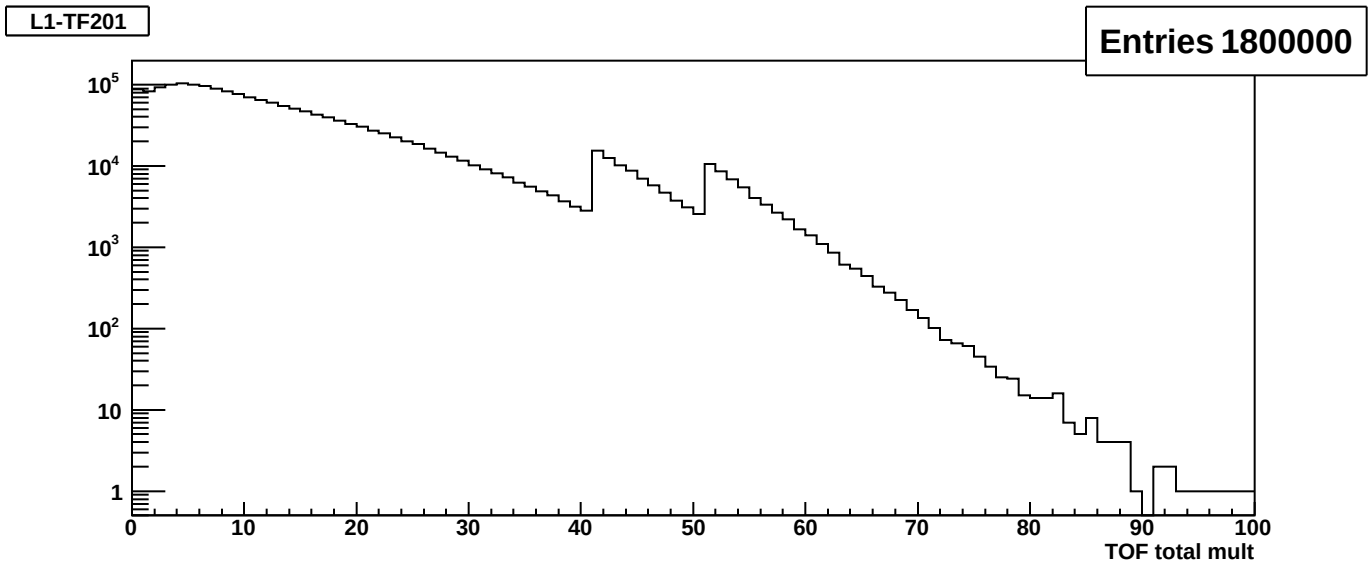

MIX-TF003
Entries 7.56e+07
TOF MULT
TOF tray

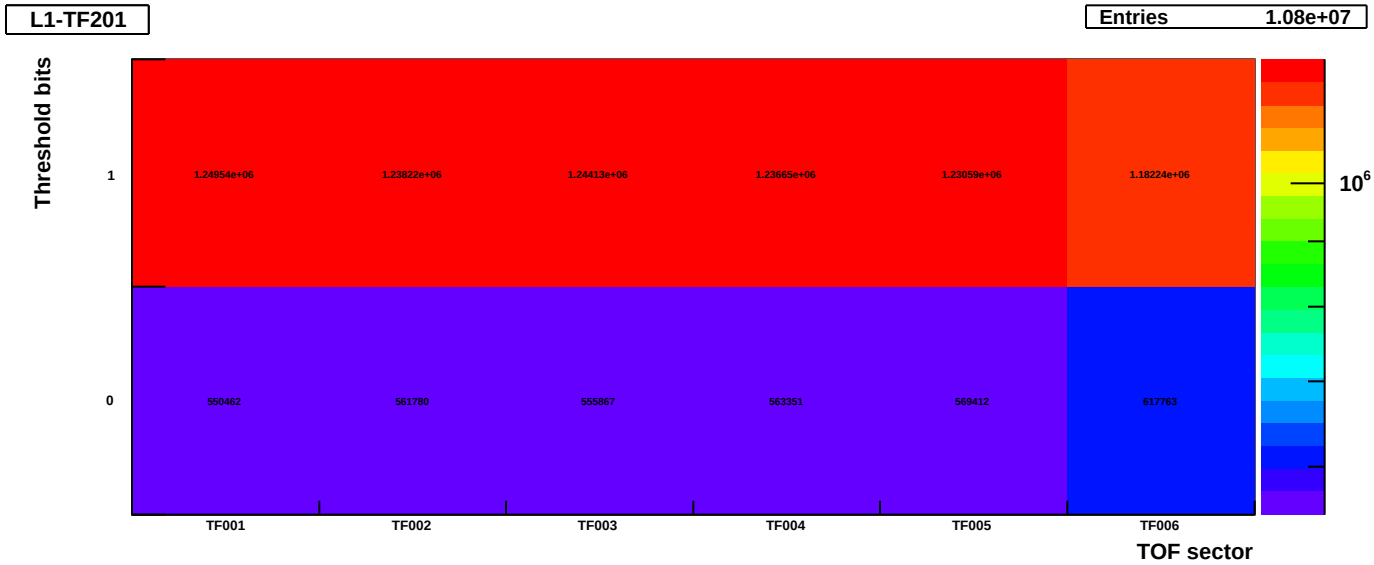

MIX-TF004
Entries 7.56e+07
TOF MULT
TOF tray

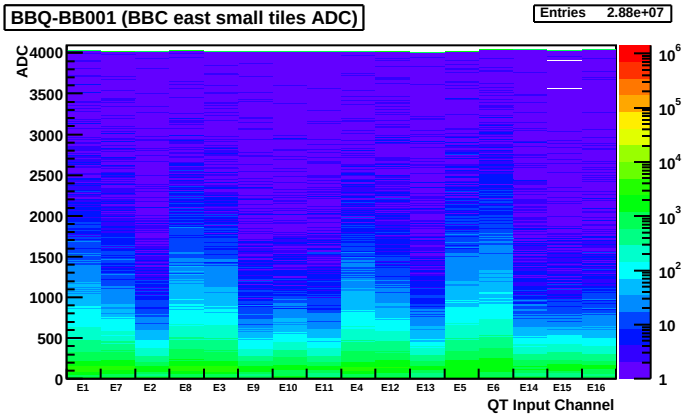

MIX-TF005
Entries 7.56e+07
TOF MULT
TOF tray

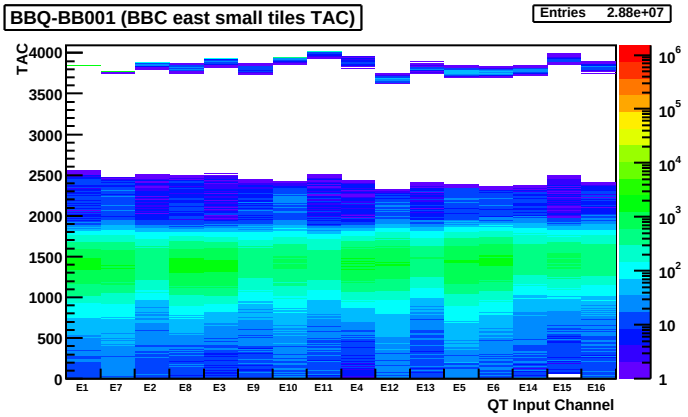

MIX-TF006
Entries 7.56e+07
TOF MULT
TOF tray

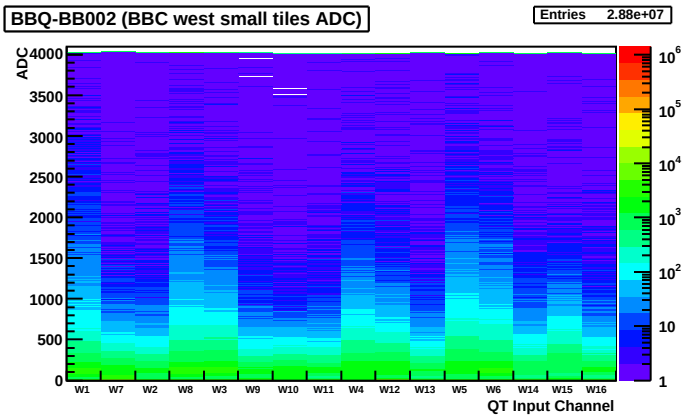

MIX-TF101
Entries 1.08e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

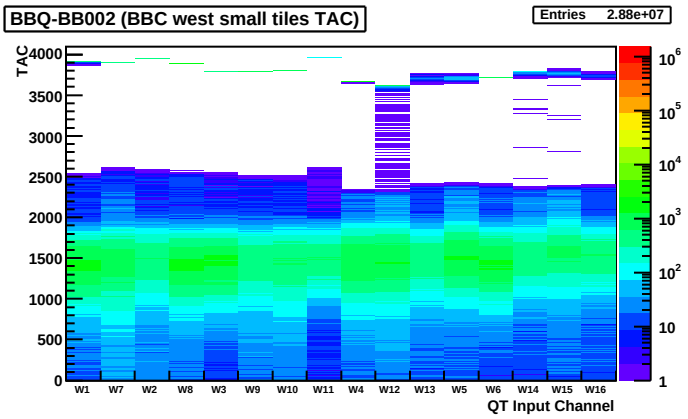

L1-TF201
Entries 1800000
TOF total mult

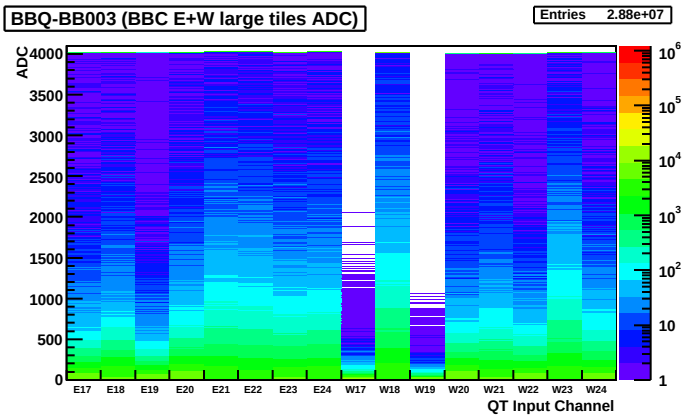

L1-TF201
Entries 1.08e+07
Threshold bits
1.24954e+06
1.23822e+06
1.24413e+06
1.23665e+06
1.23059e+06
1.18224e+06
550462
561780
555867
563351
569412
617763
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

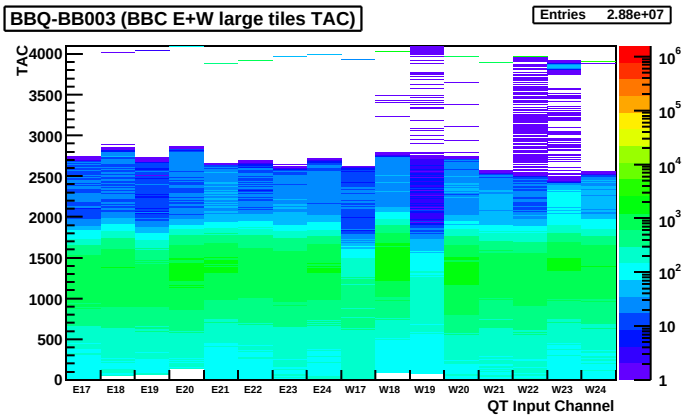

BBQ-BB001 (BBC east small tiles ADC)
Entries 2.88e+07
ADC
QT Input Channel

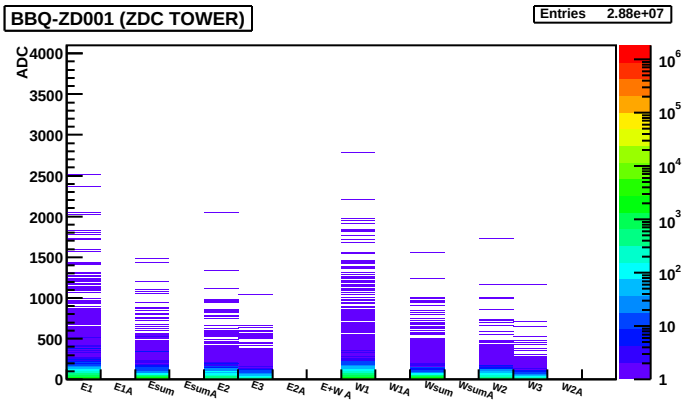

BBQ-BB001 (BBC east small tiles TAC)
Entries 2.88e+07
TAC
QT Input Channel

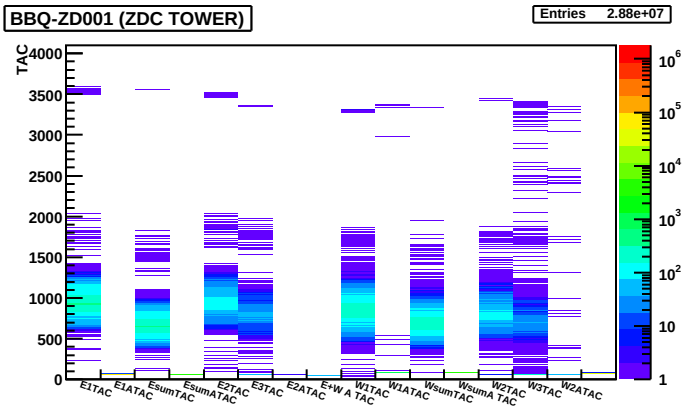

BBQ-BB002 (BBC west small tiles ADC)
Entries 2.88e+07
ADC
QT Input Channel

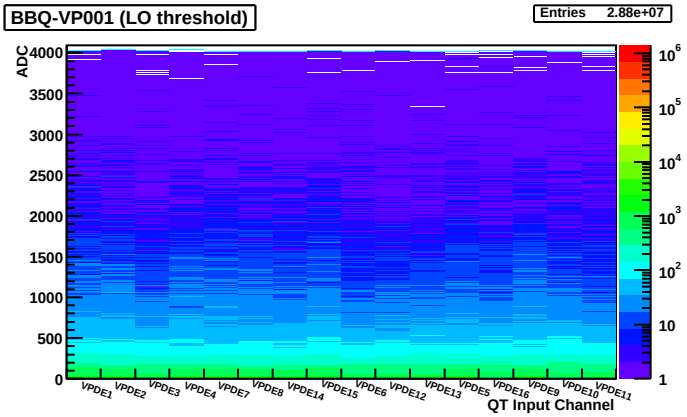

BBQ-BB002 (BBC west small tiles TAC)
Entries 2.88e+07
TAC
QT Input Channel

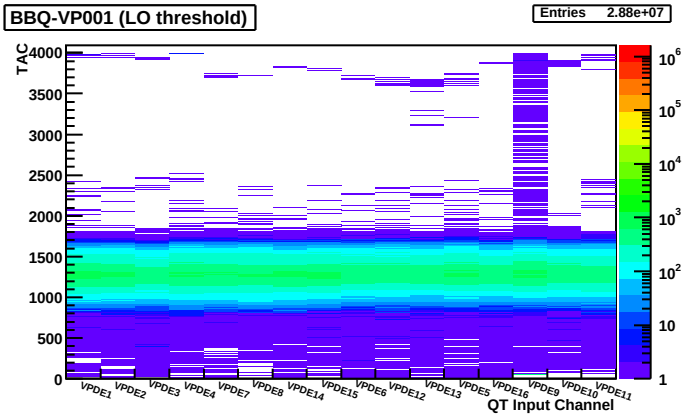

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2.88e+07
ADC
QT Input Channel

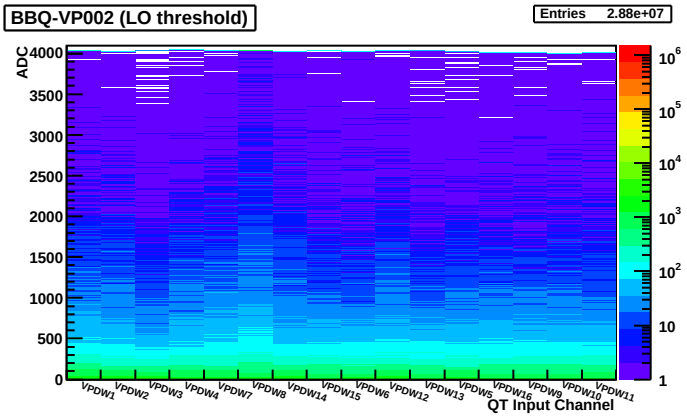

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2.88e+07
TAC
QT Input Channel

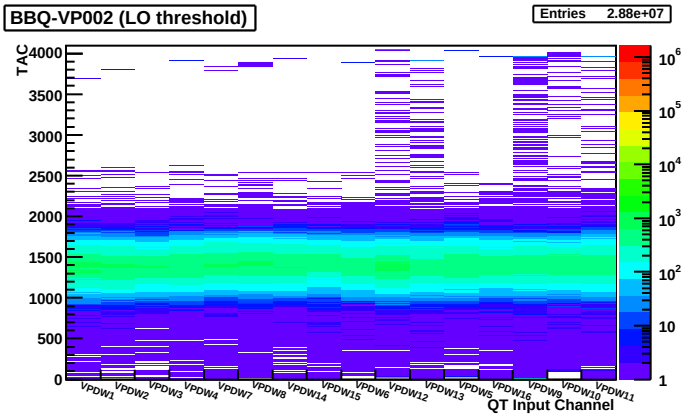

BBQ-ZD001 (ZDC TOWER)
Entries 2.88e+07
ADC

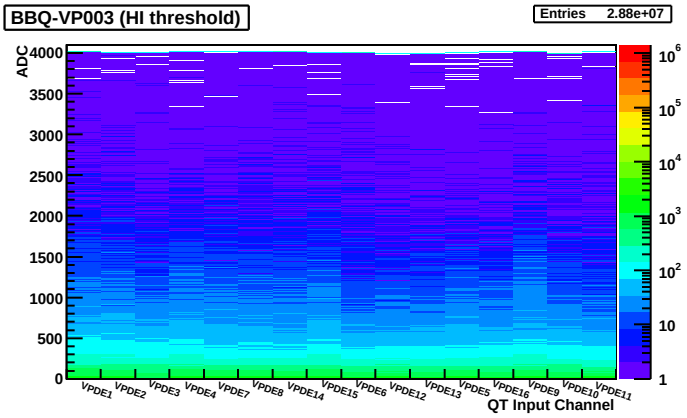

BBQ-ZD001 (ZDC TOWER)
Entries 2.88e+07
TAC

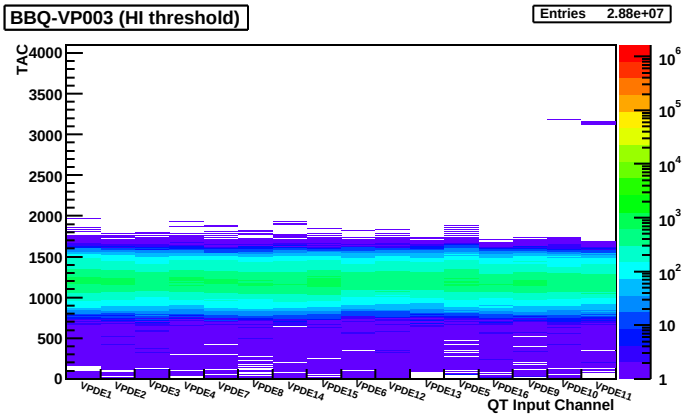

BBQ-VP001 (LO threshold)
Entries 2.88e+07
ADC
QT Input Channel

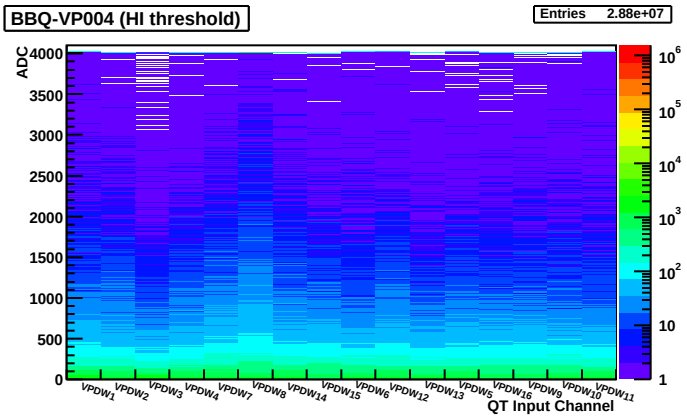

BBQ-VP001 (LO threshold)
Entries 2.88e+07
TAC
QT Input Channel

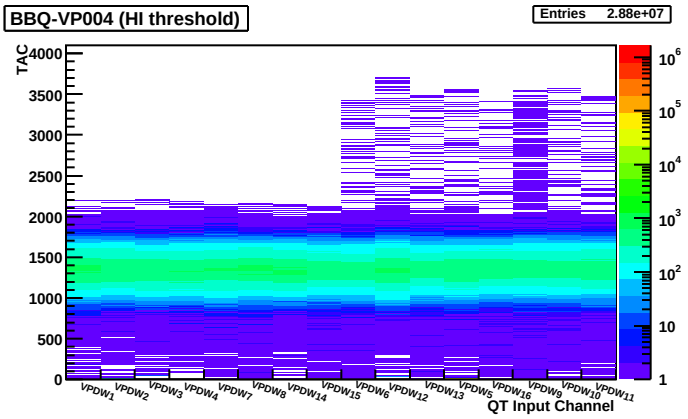

BBQ-VP002 (LO threshold)
Entries 2.88e+07
ADC
QT Input Channel

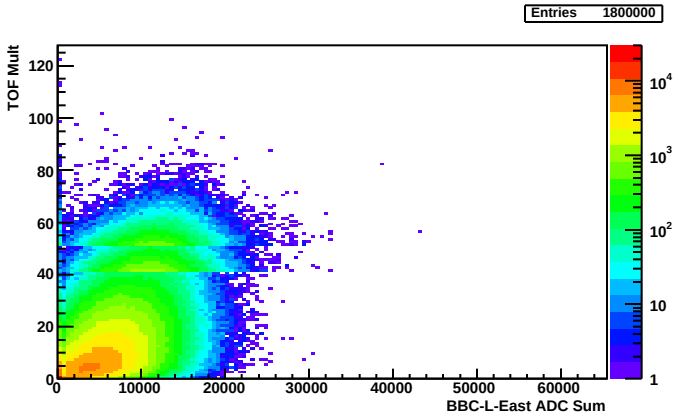

BBQ-VP002 (LO threshold)
Entries 2.88e+07
TAC
QT Input Channel

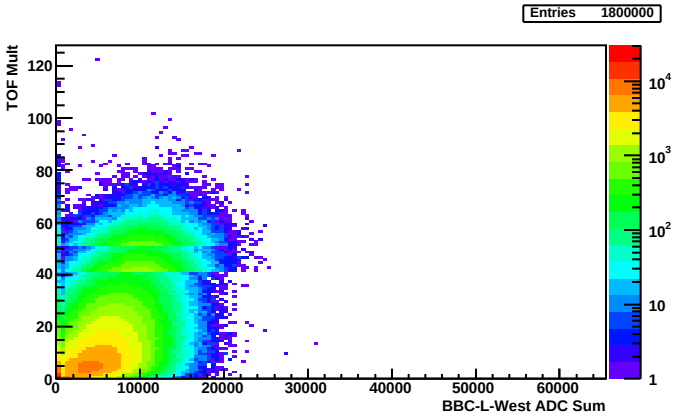

BBQ-VP003 (HI threshold)
Entries 2.88e+07
ADC
QT Input Channel

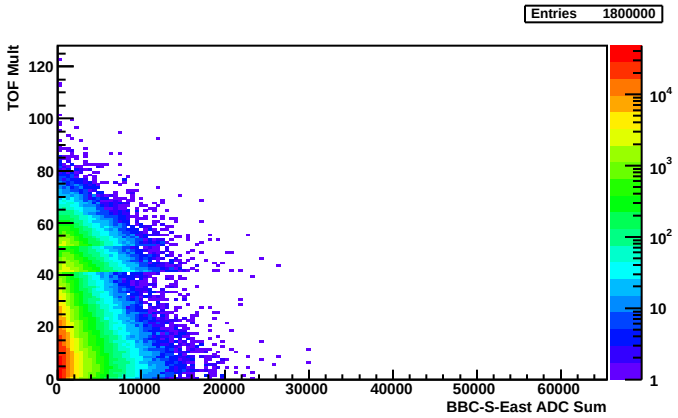

BBQ-VP003 (HI threshold)
Entries 2.88e+07
TAC
QT Input Channel

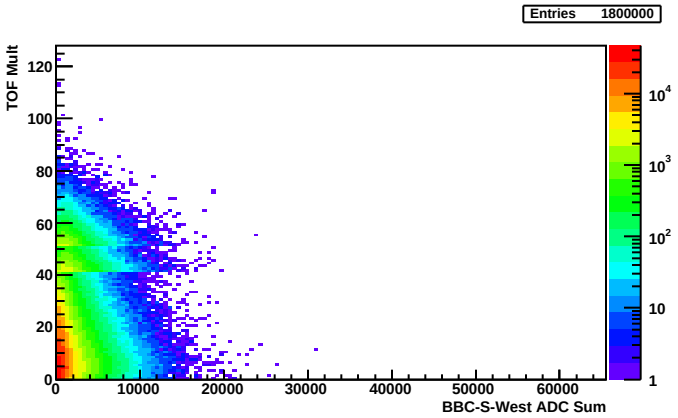

BBQ-VP004 (HI threshold)
Entries 2.88e+07
ADC
QT Input Channel

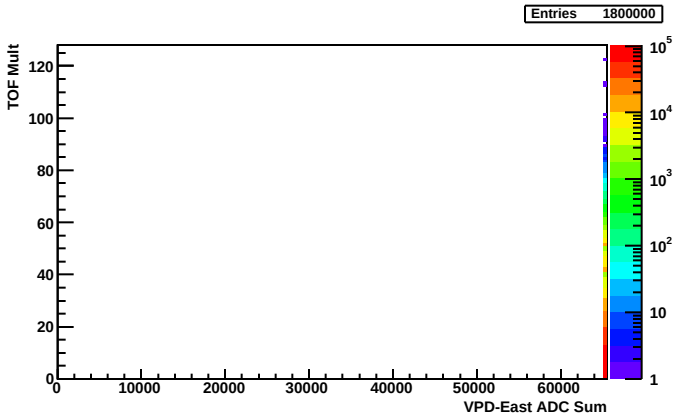

BBQ-VP004 (HI threshold)
Entries 2.88e+07
TAC
QT Input Channel

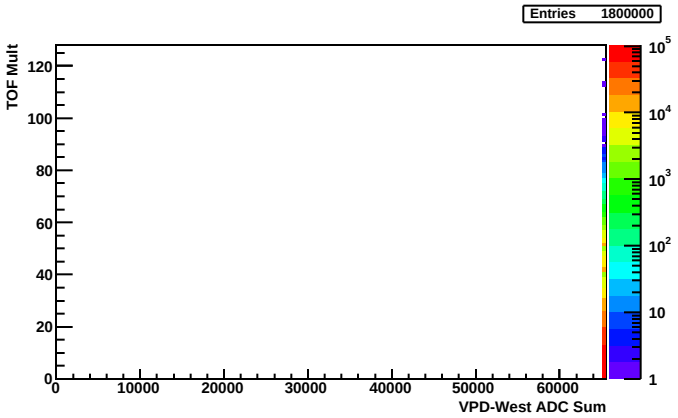

Entries 1800000
TOF Mult
BBC-L-East ADC Sum

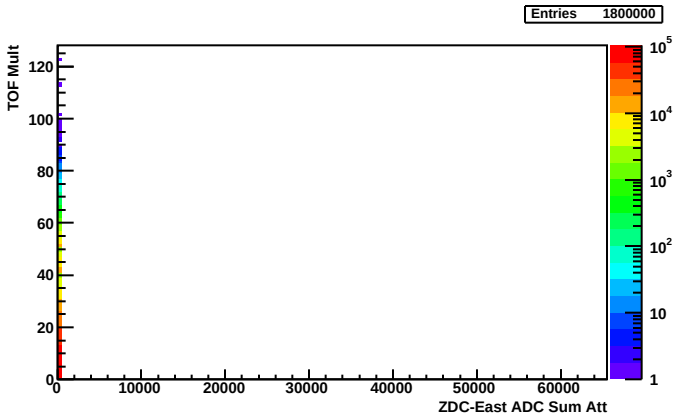

Entries 1800000
TOF Mult
BBC-L-West ADC Sum

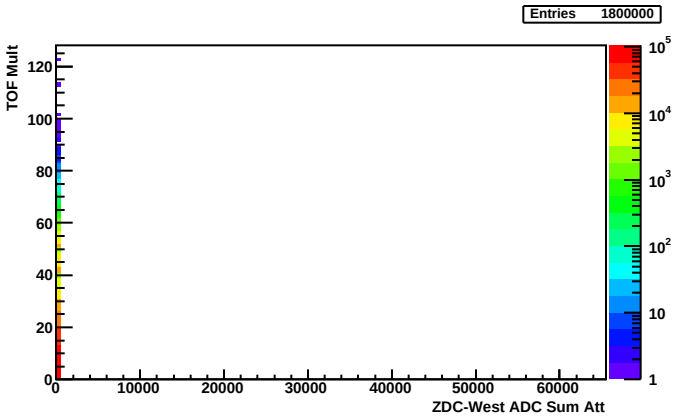

Entries 1800000
TOF Mult
BBC-S-East ADC Sum

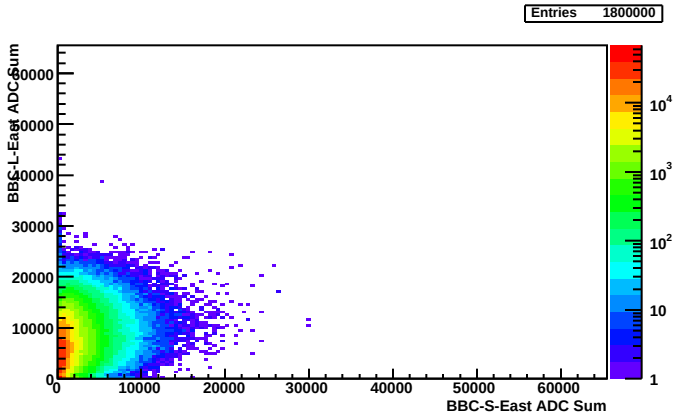

Entries 1800000
TOF Mult
BBC-S-West ADC Sum

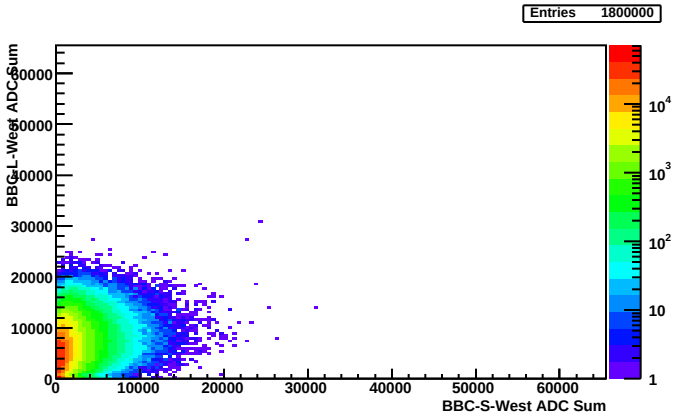

Entries 1800000
TOF Mult
VPD-East ADC Sum

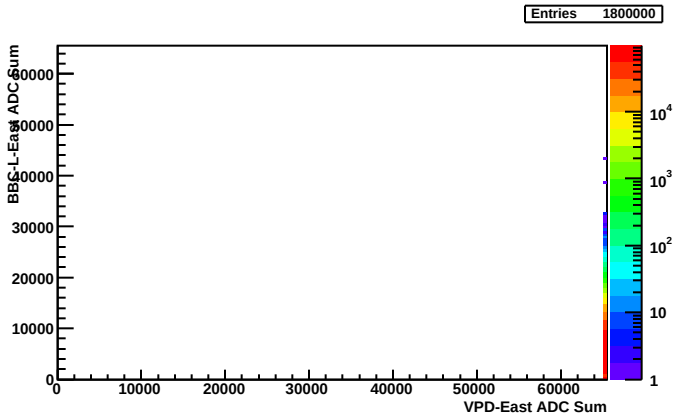

Entries 1800000
TOF Mult
VPD-West ADC Sum

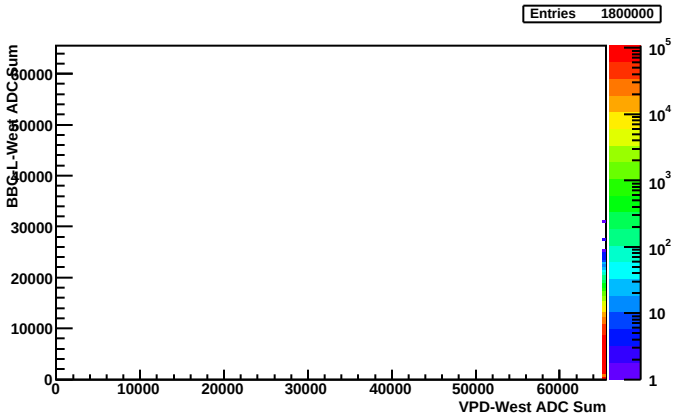

Entries 1800000
TOF Mult
ZDC-East ADC Sum Att

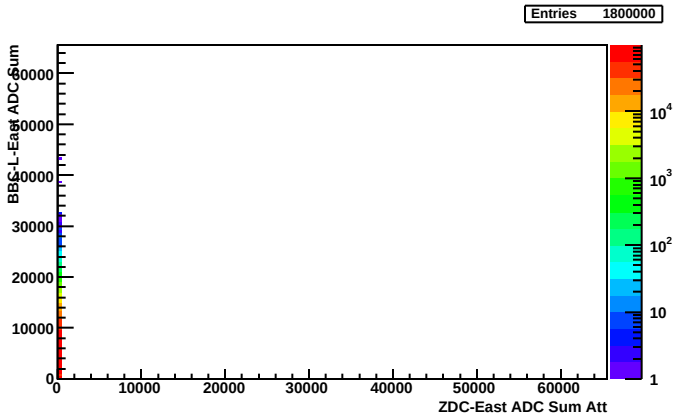

Entries 1800000
TOF Mult
ZDC-West ADC Sum Att

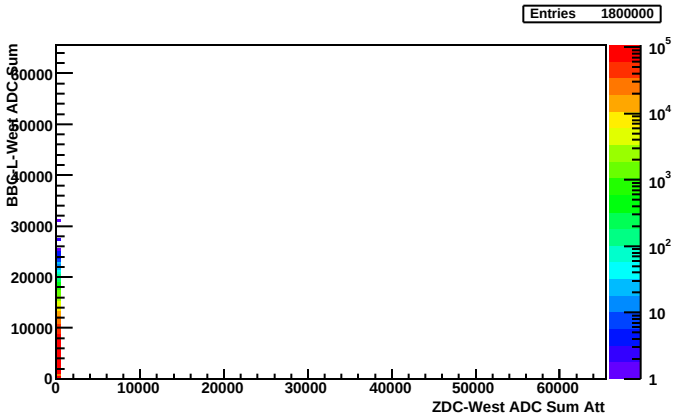

Entries 1800000
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 1800000
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 1800000
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 1800000
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 1800000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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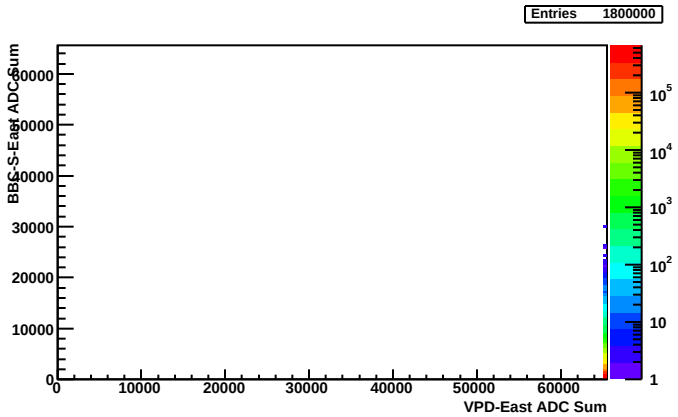
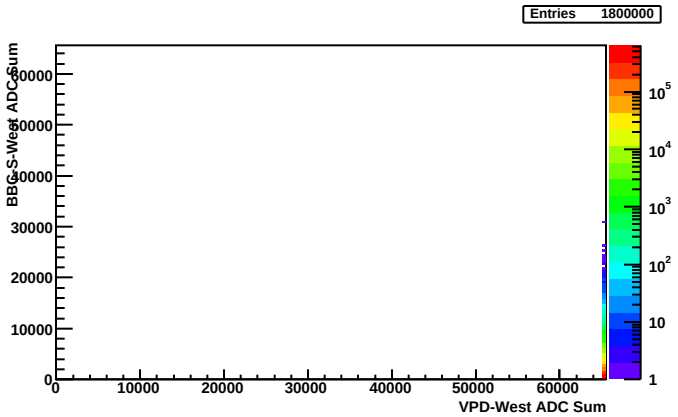
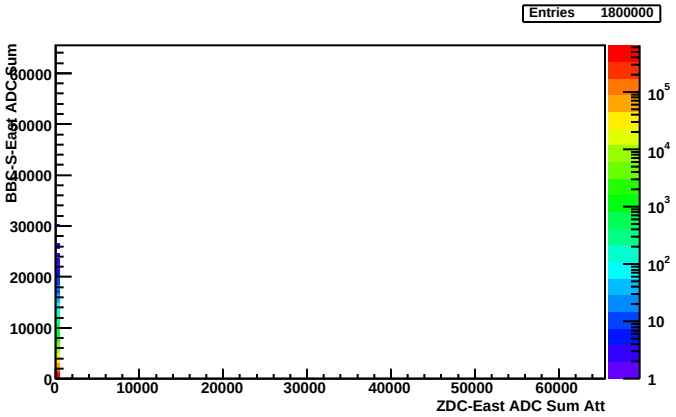
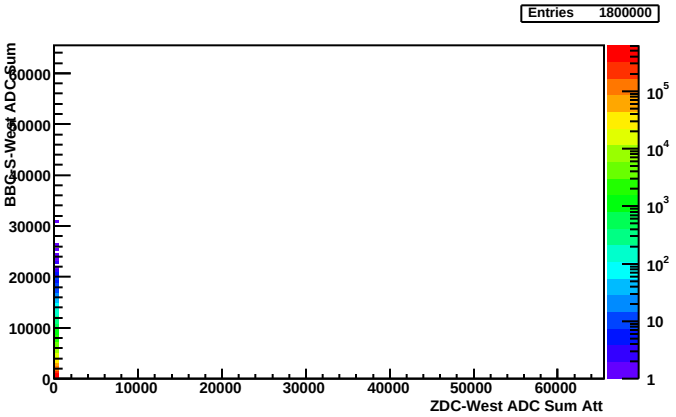
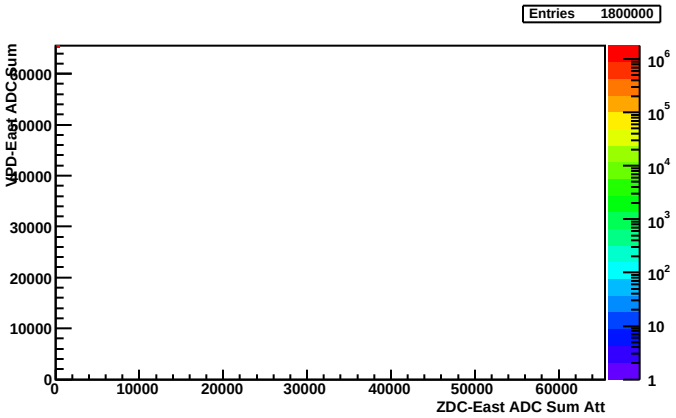
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

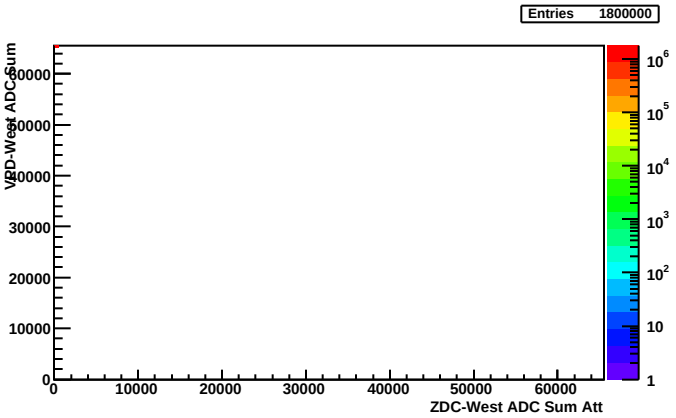

Entries 1800000
BBC-S-East ADC Sum
VPD-East ADC Sum

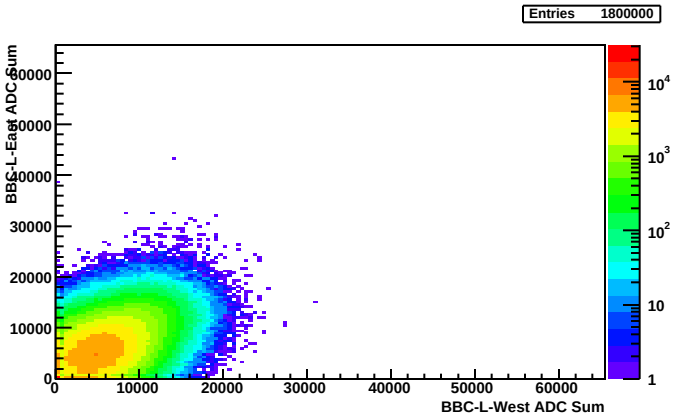

Entries 1800000
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 1800000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 1800000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 1800000
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 1800000
VPD-West ADC Sum
ZDC-West ADC Sum Att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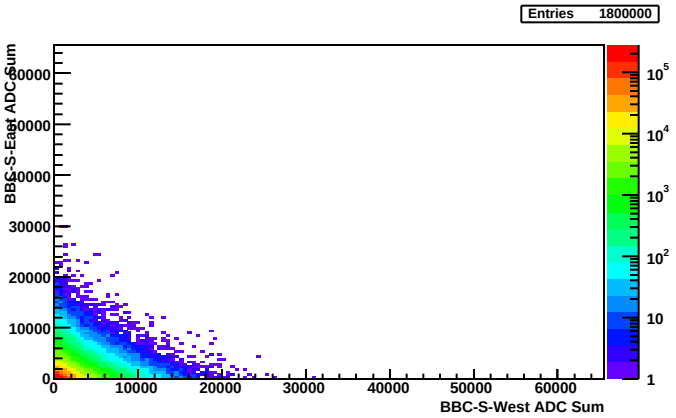
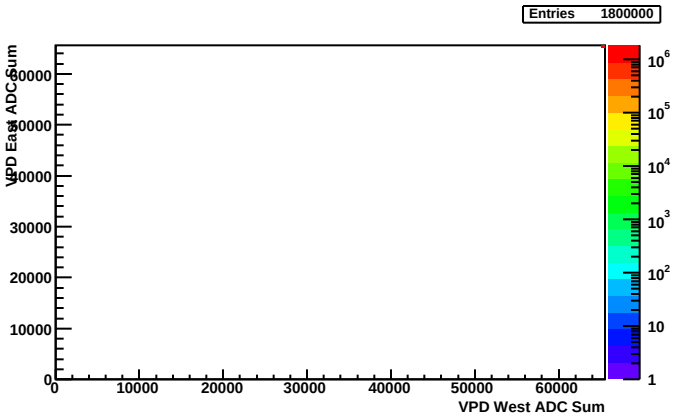
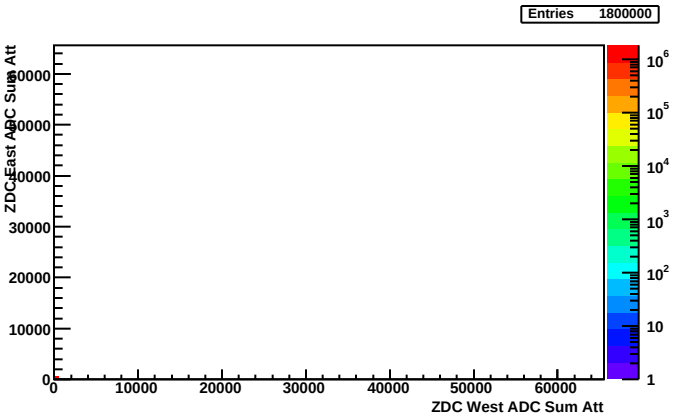
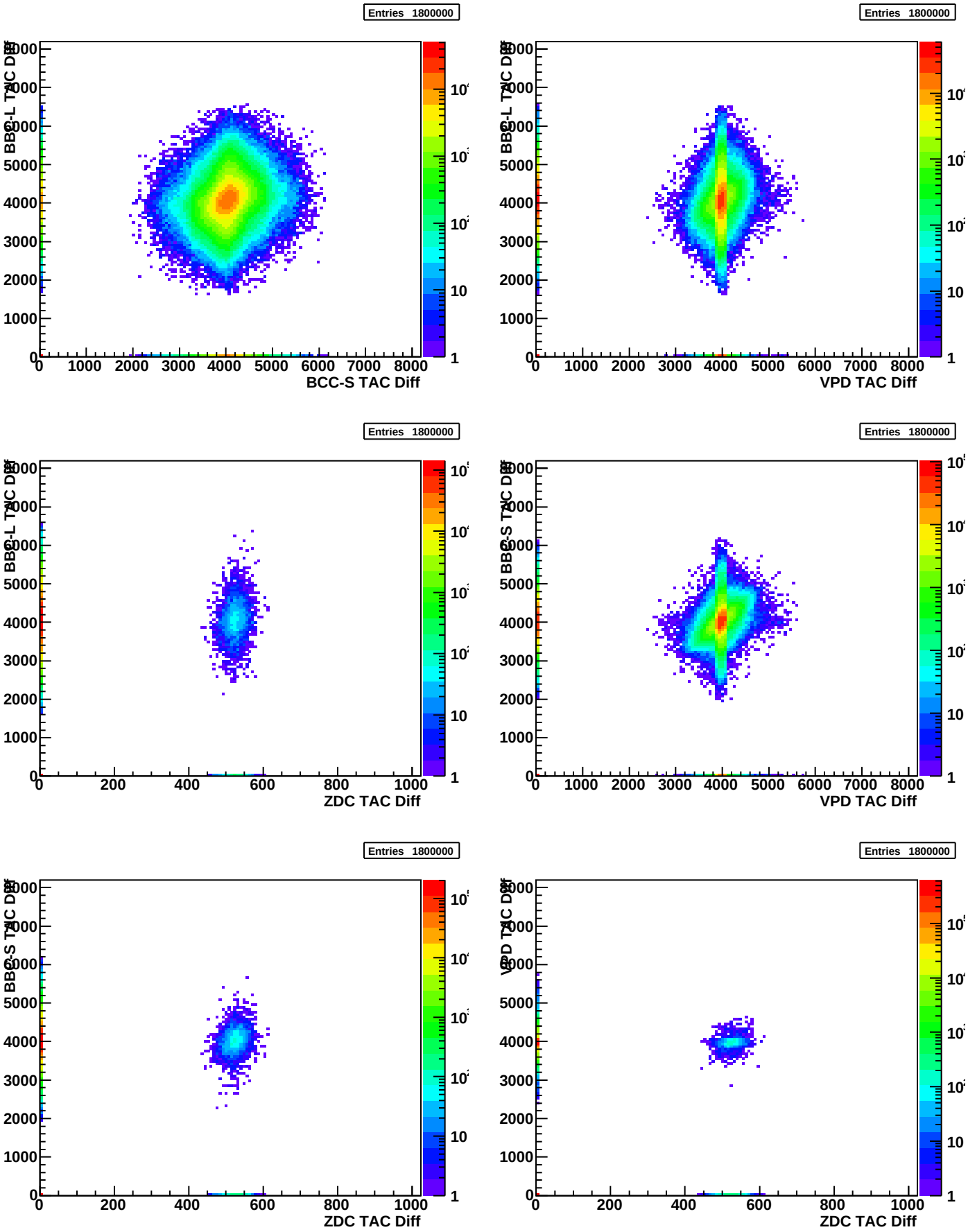
BBC-L-East ADC Sum
BBC-L-West ADC Sum


Entries 1800000
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 1800000
VPD East ADC Sum
VPD West ADC Sum


Entries 1800000
ZDC-East ADC Sum Att
ZDC West ADC Sum Att


Entries 1800000
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1800000
BBC-L TAC Diff
VPD TAC Diff
Entries 1800000
BBC-L TAC Diff
ZDC TAC Diff
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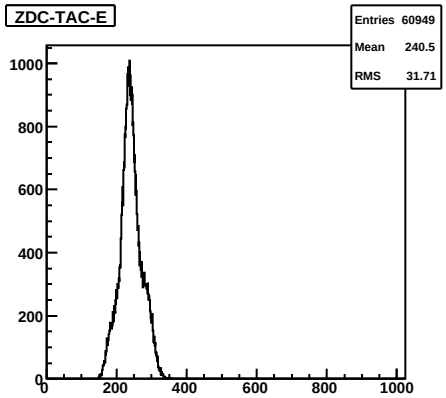
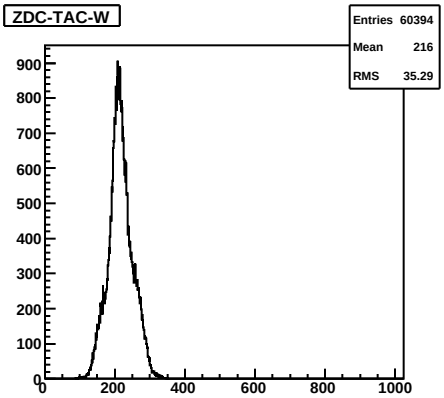
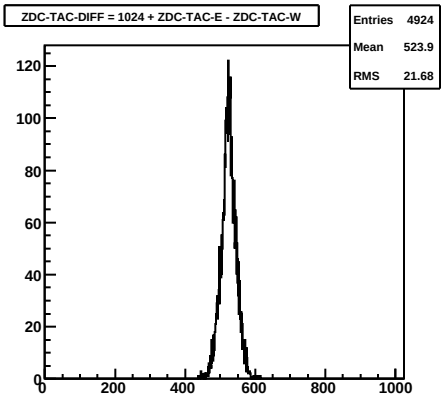
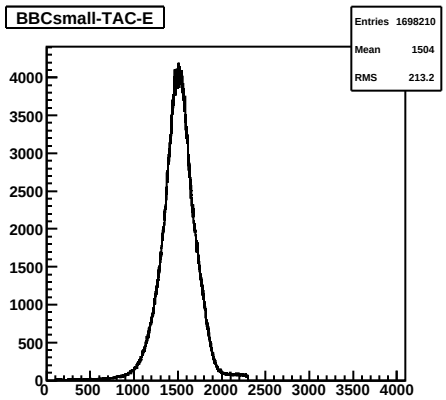
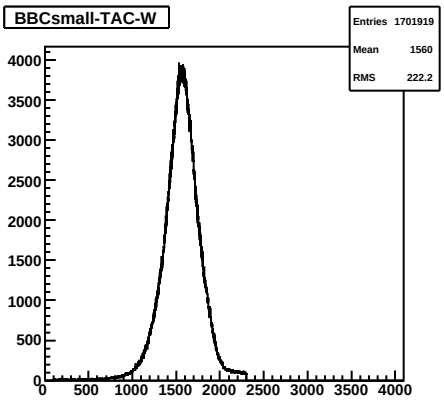
BBC-S TAC Diff
VPD TAC Diff
Entries 1800000
BBC-S TAC Diff
ZDC TAC Diff
Entries 1800000
VPD TAC Diff
ZDC TAC Diff

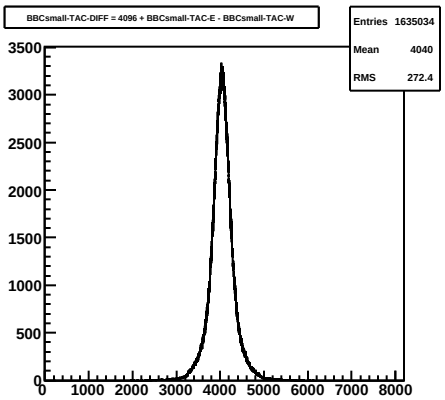

ZDC-TAC-E
Entries 60949
Mean 240.5
RMS 31.71

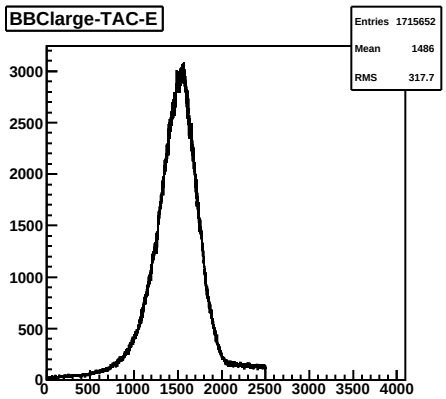

ZDC-TAC-W
Entries 60394
Mean 216
RMS 35.29

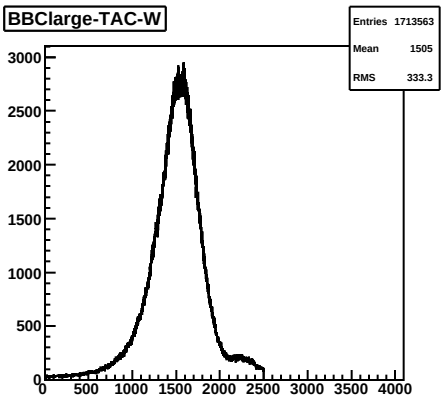

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 4924
Mean 523.9
RMS 21.68

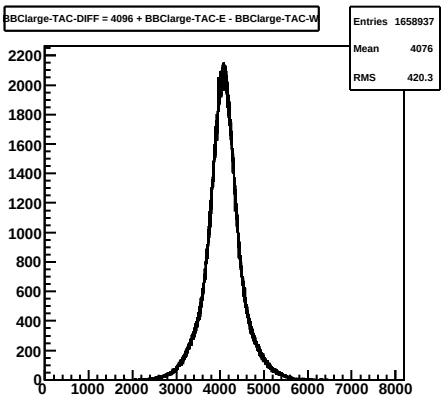

BBCsmall-TAC-E
Entries 1698210
Mean 1504
RMS 213.2

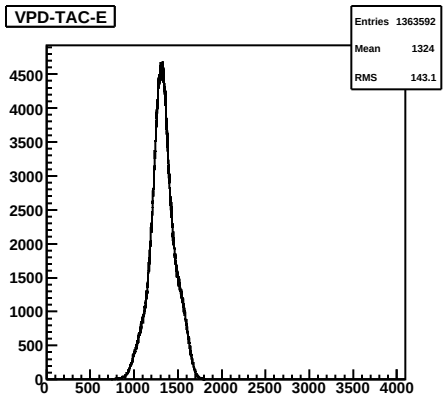

BBCsmall-TAC-W
Entries 1701919
Mean 1560
RMS 222.2

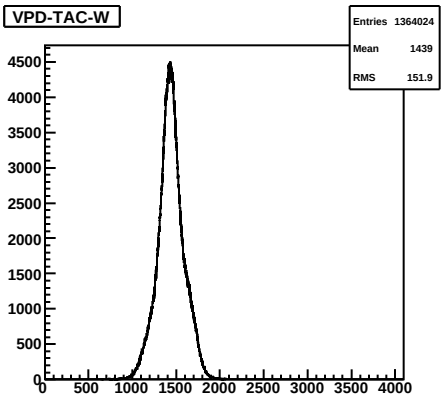

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 1635034
Mean 4040
RMS 272.4

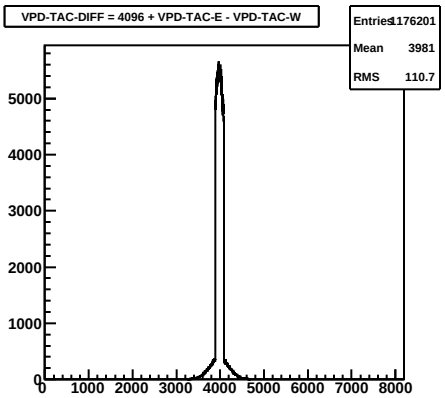

BBClarge-TAC-E
Entries 1715652
Mean 1486
RMS 317.7

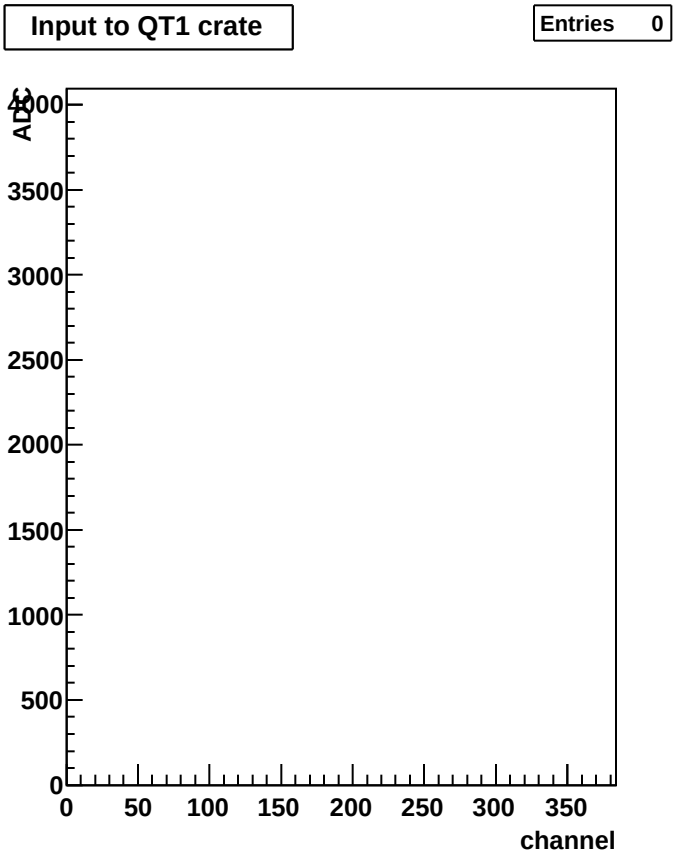

BBClarge-TAC-W
Entries 1713563
Mean 1505
RMS 333.3

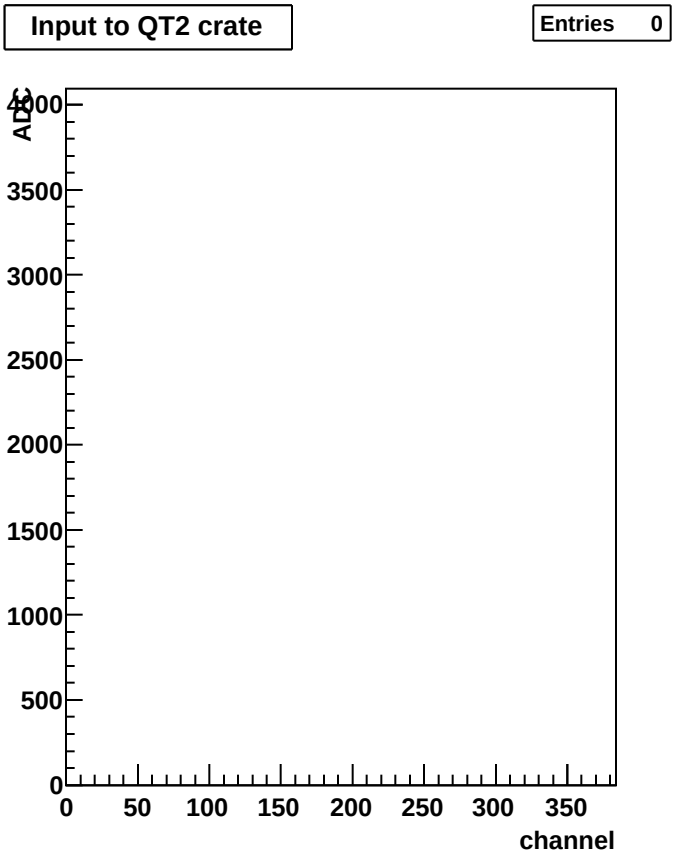

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 1658937
Mean 4076
RMS 420.3

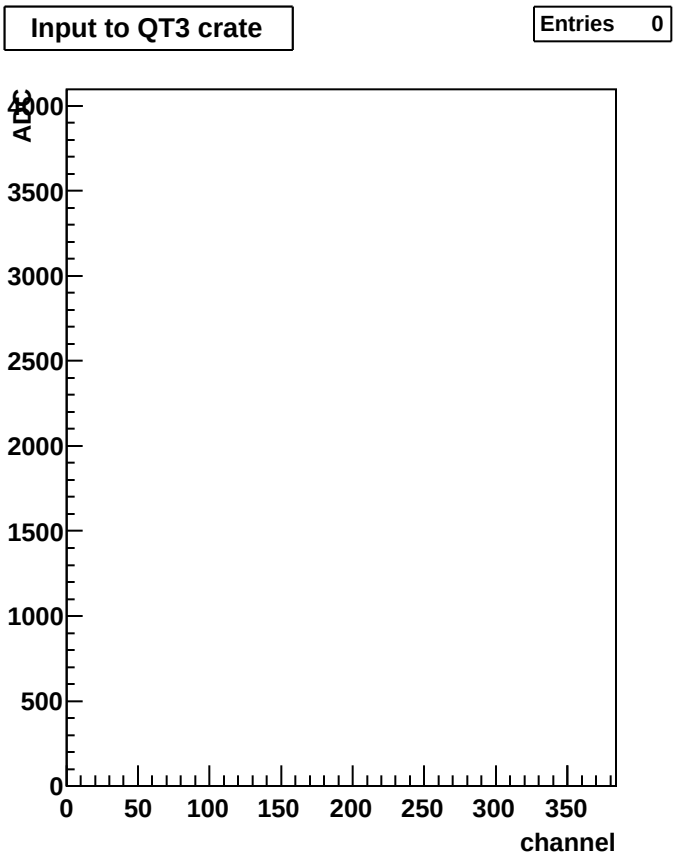

VPD-TAC-E
Entries 1363592
Mean 1324
RMS 143.1

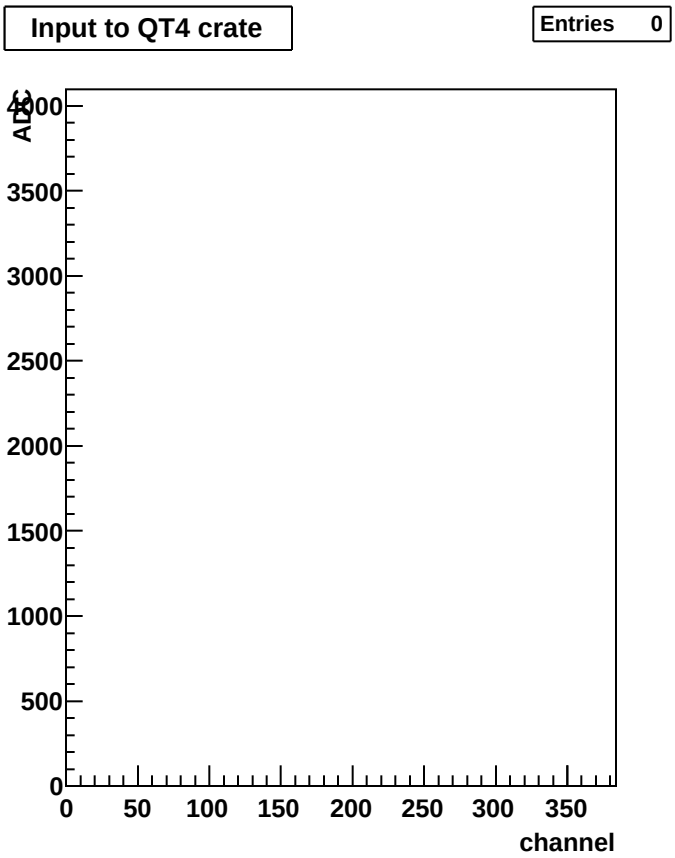

VPD-TAC-W
Entries 1364024
Mean 1439
RMS 151.9

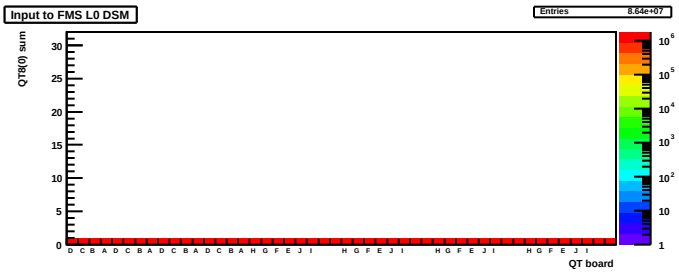

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1176201
Mean 3981
RMS 110.7

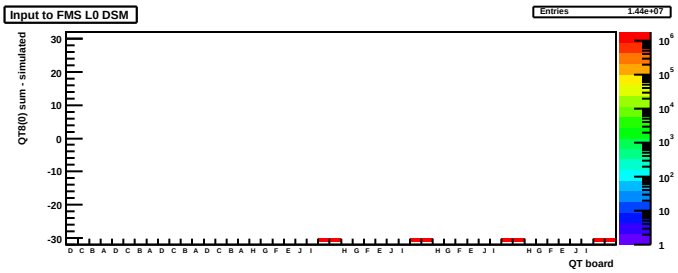

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

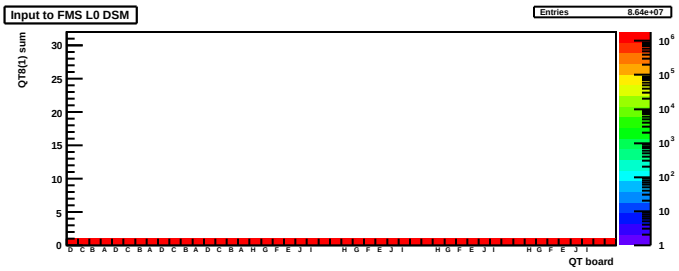

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

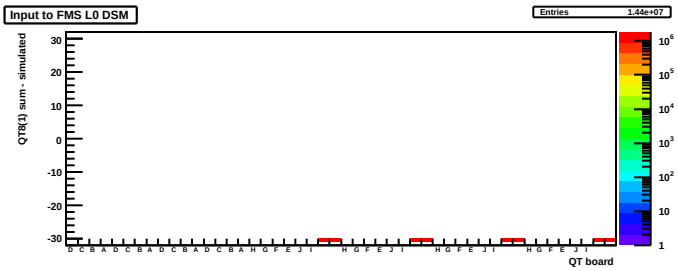

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

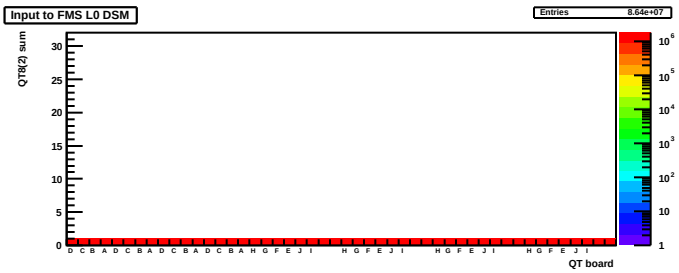

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

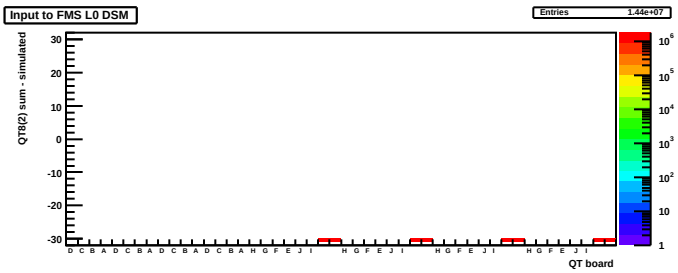

Input to FMS L0 DSM
Entries 8.64e+07
QT8(0) sum
QT board

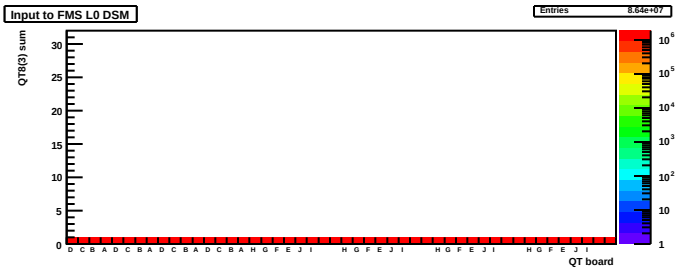

Input to FMS L0 DSM
Entries 1.44e+07
QT8(0) sum - simulated
QT board

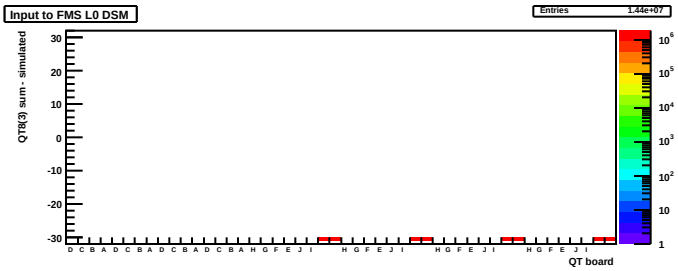

Input to FMS L0 DSM
Entries 8.64e+07
QT8(1) sum
QT board

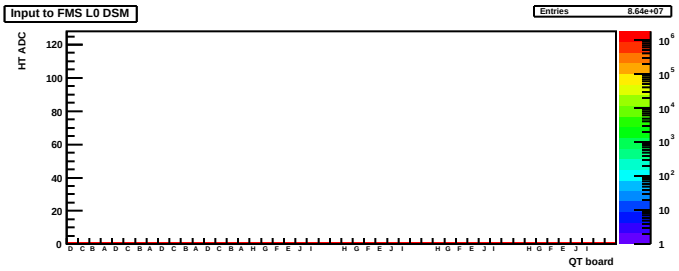

Input to FMS L0 DSM
Entries 1.44e+07
QT8(1) sum - simulated
QT board

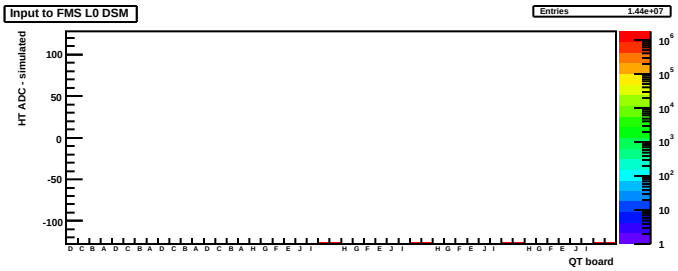

Input to FMS L0 DSM
Entries 8.64e+07
QT8(2) sum
QT board

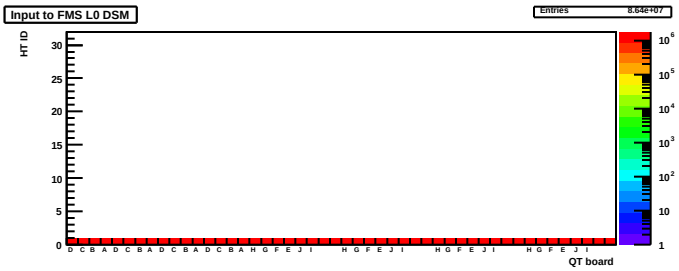

Input to FMS L0 DSM
Entries 1.44e+07
QT8(2) sum - simulated
QT board

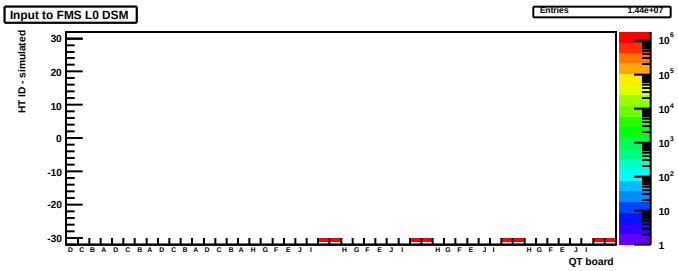

Input to FMS L0 DSM
Entries 8.64e+07
QT8(3) sum
QT board

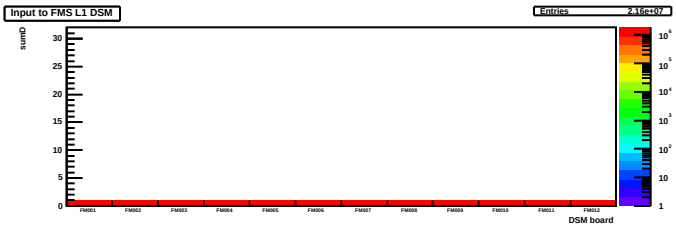

Input to FMS L0 DSM
Entries 1.44e+07
QT8(3) sum - simulated
QT board

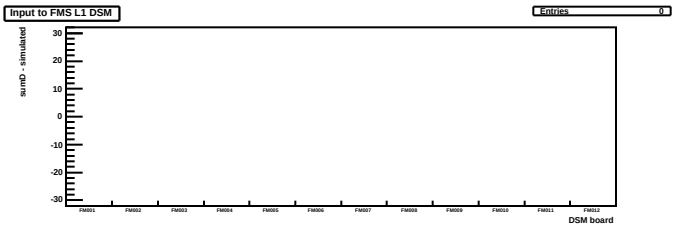

Input to FMS L0 DSM
Entries 8.64e+07
HT ADC
QT board

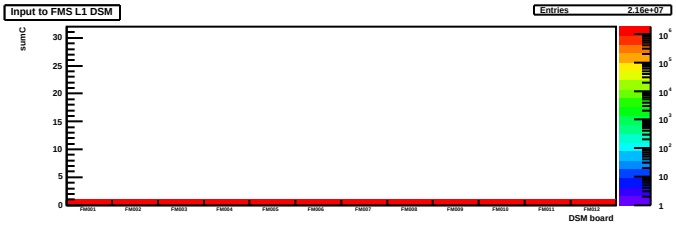

Input to FMS L0 DSM
Entries 1.44e+07
HT ADC - simulated
QT board

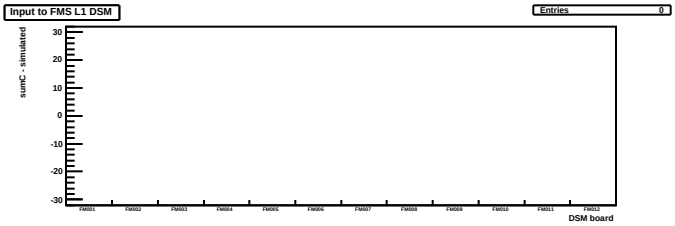

Input to FMS L0 DSM
Entries 8.64e+07
HT ID
QT board

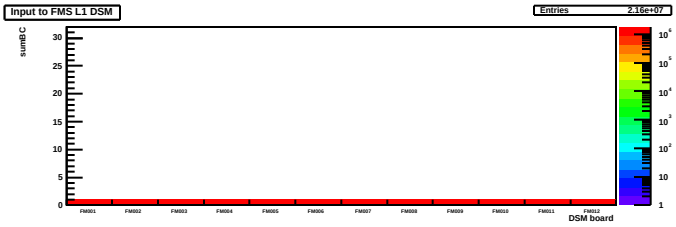

Input to FMS L0 DSM
Entries 1.44e+07
HT ID - simulated
QT board

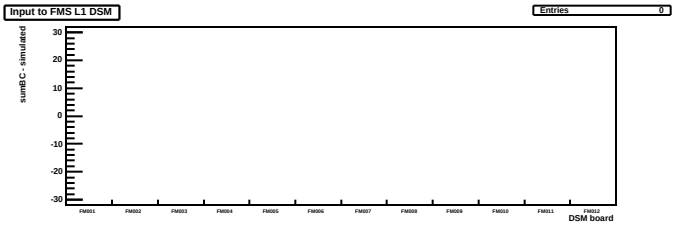

Input to FMS L1 DSM
Entries 2.16e+07
sumD
DSM board

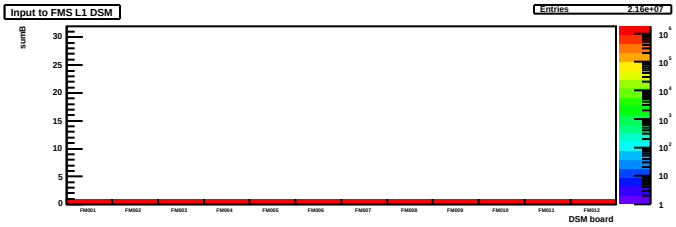

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

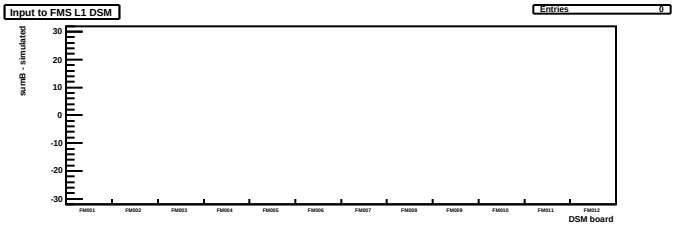

Input to FMS L1 DSM
Entries 2.16e+07
sumC
DSM board

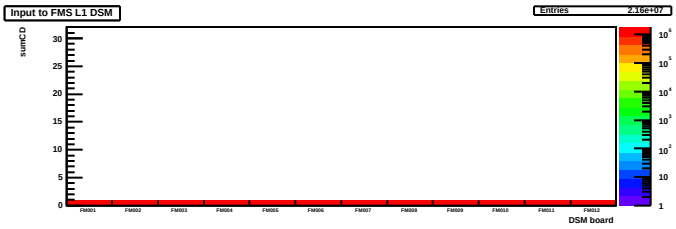

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

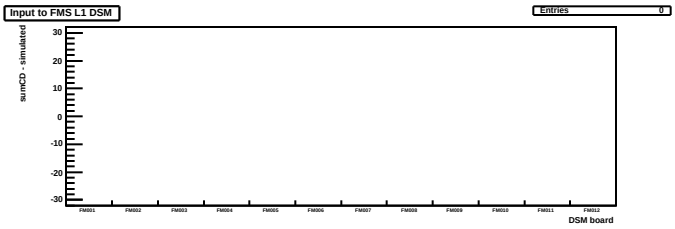

Input to FMS L1 DSM
Entries 2.16e+07
sumBC
DSM board

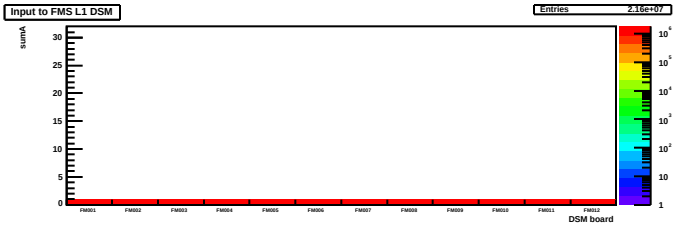

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

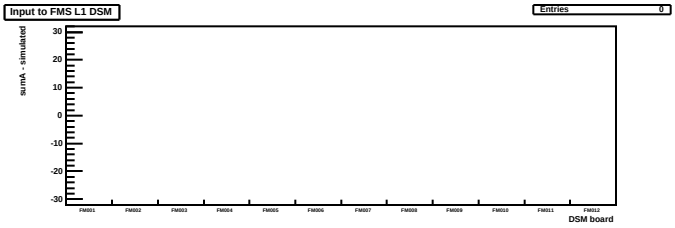

Input to FMS L1 DSM
Entries 2.16e+07
sumB
DSM board

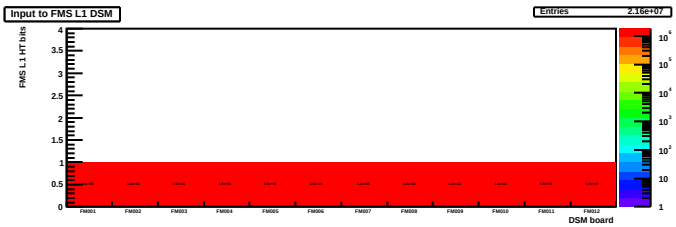

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

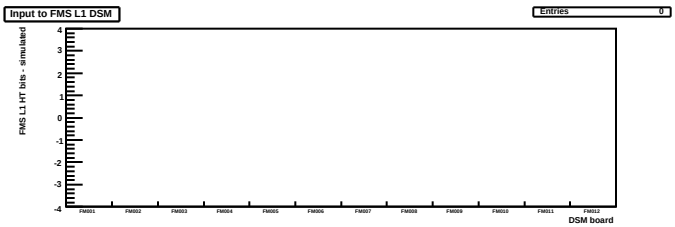

Input to FMS L1 DSM
Entries 2.16e+07
sumCD
DSM board

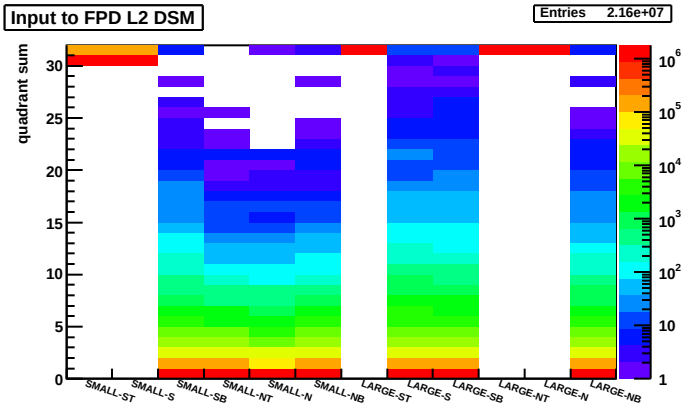

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

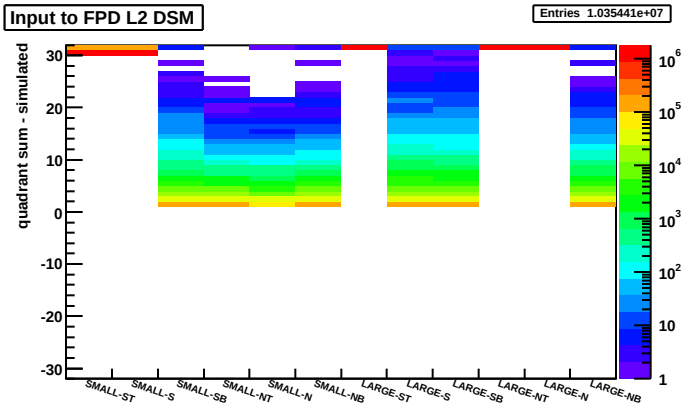

Input to FMS L1 DSM
Entries 2.16e+07
sumA
DSM board

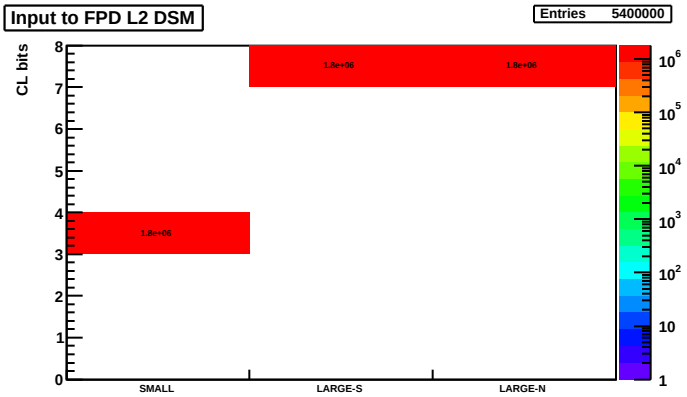

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

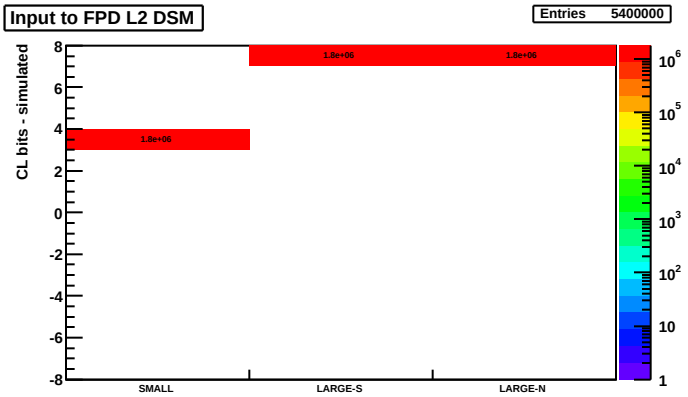

Input to FMS L1 DSM
Entries 2.16e+07
FMS L1 HT bits
DSM board

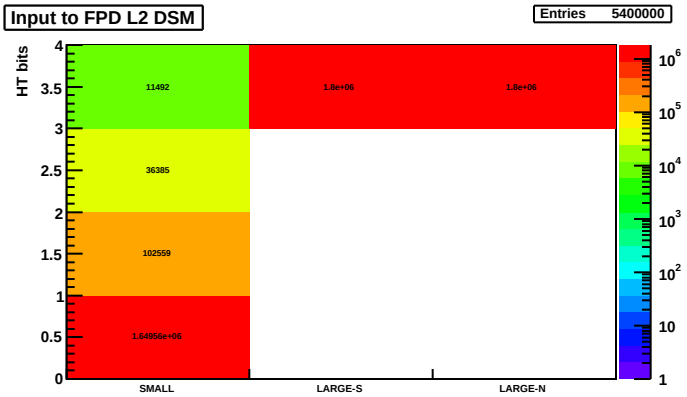

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

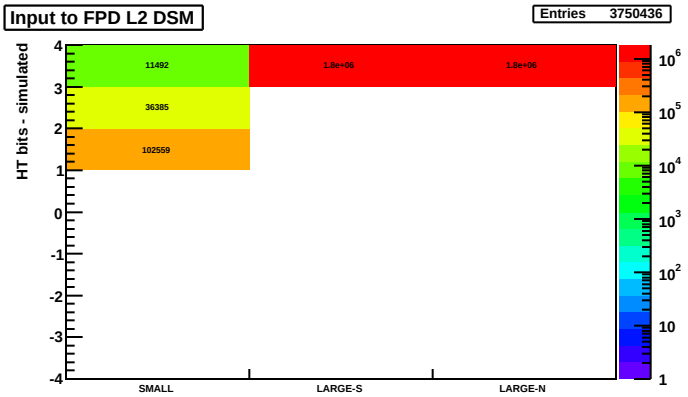

Input to FPD L2 DSM
Entries 2.16e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

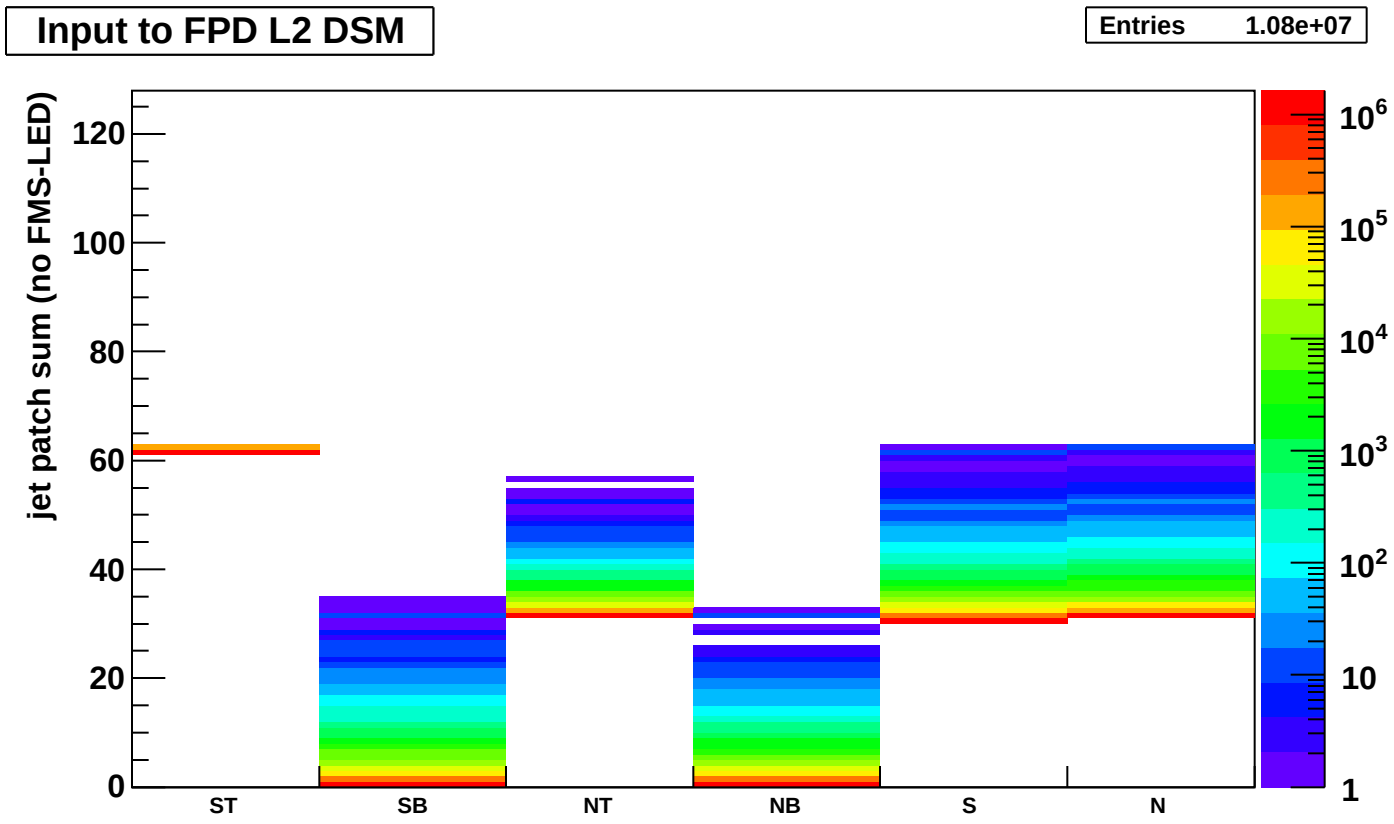

Input to FPD L2 DSM
Entries 1.035441e+07
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

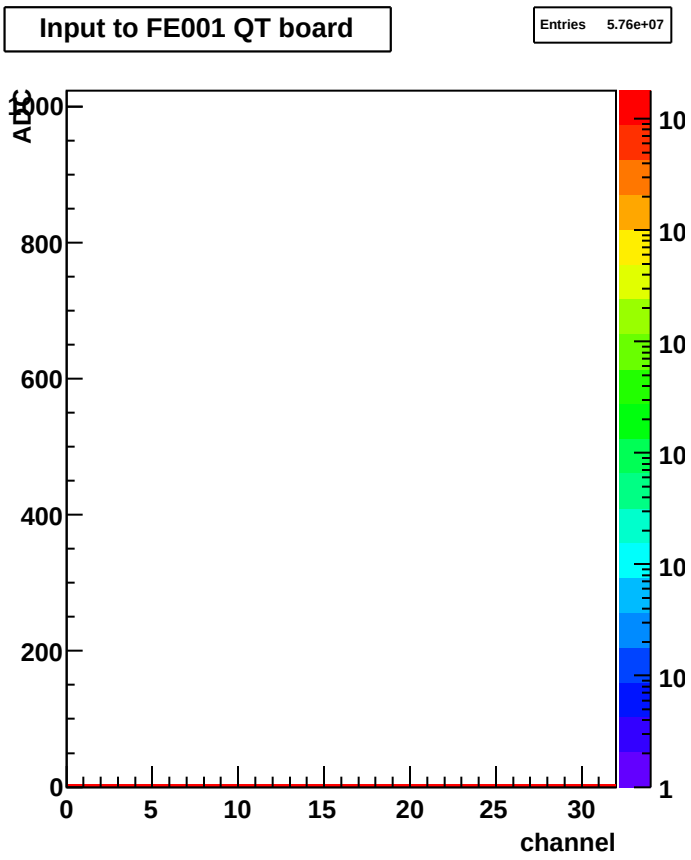

Input to FPD L2 DSM
Entries 5400000
CL bits
1.8e+06
1.8e+06
1.8e+06
SMALL
LARGE-S
LARGE-N

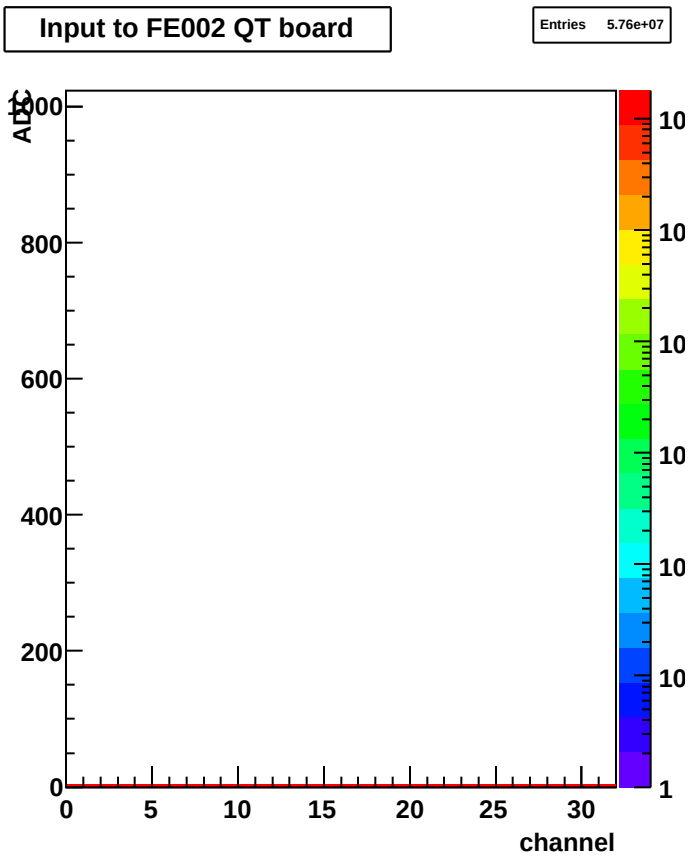

Input to FPD L2 DSM
Entries 5400000
CL bits - simulated
1.8e+06
1.8e+06
1.8e+06
SMALL
LARGE-S
LARGE-N

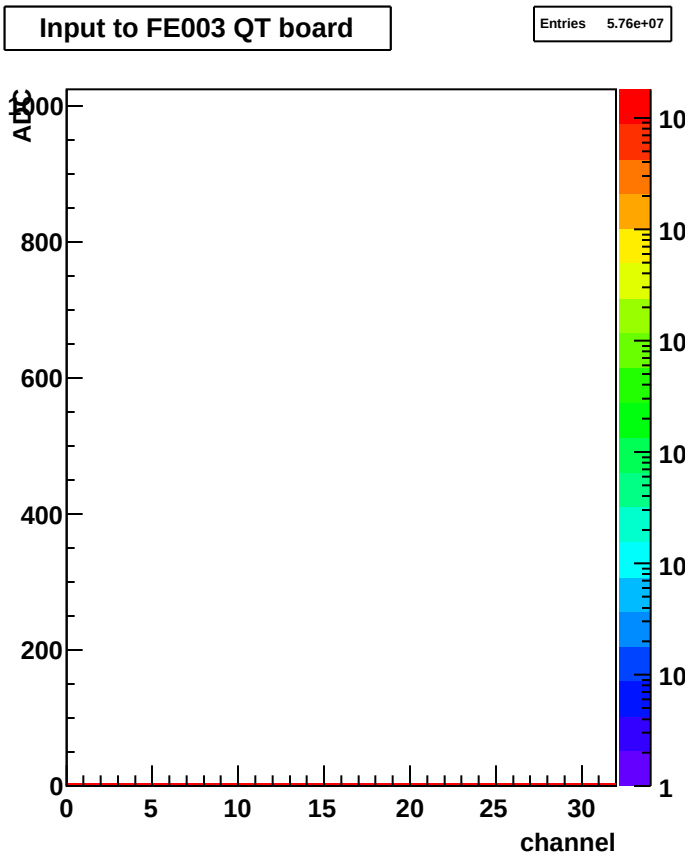

Input to FPD L2 DSM
Entries 5400000
HT bits
11492
36385
102559
1.64956e+06
1.8e+06
1.8e+06
SMALL
LARGE-S
LARGE-N

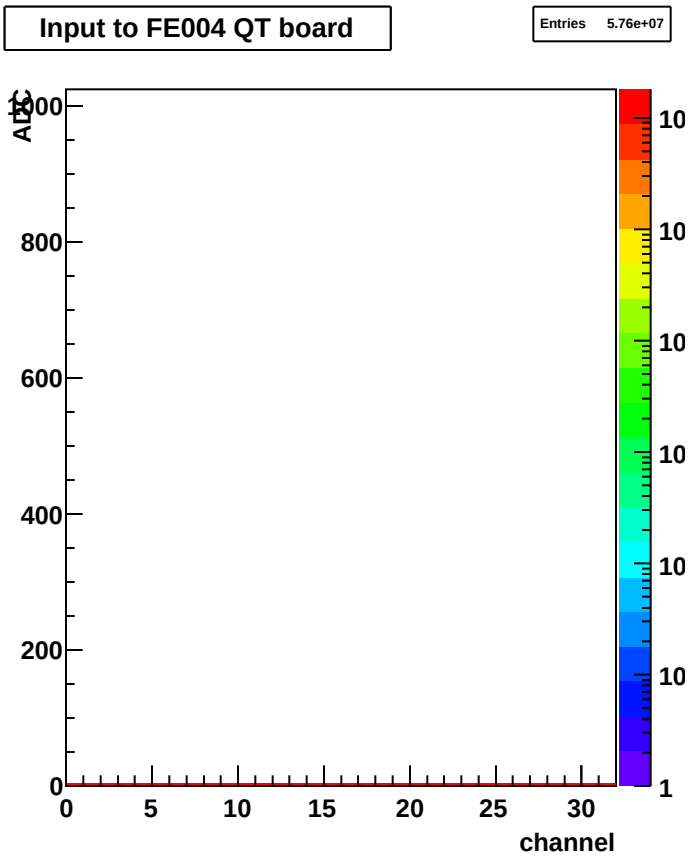

Input to FPD L2 DSM
Entries 3750436
HT bits - simulated
11492
36385
102559
1.8e+06
1.8e+06
SMALL
LARGE-S
LARGE-N

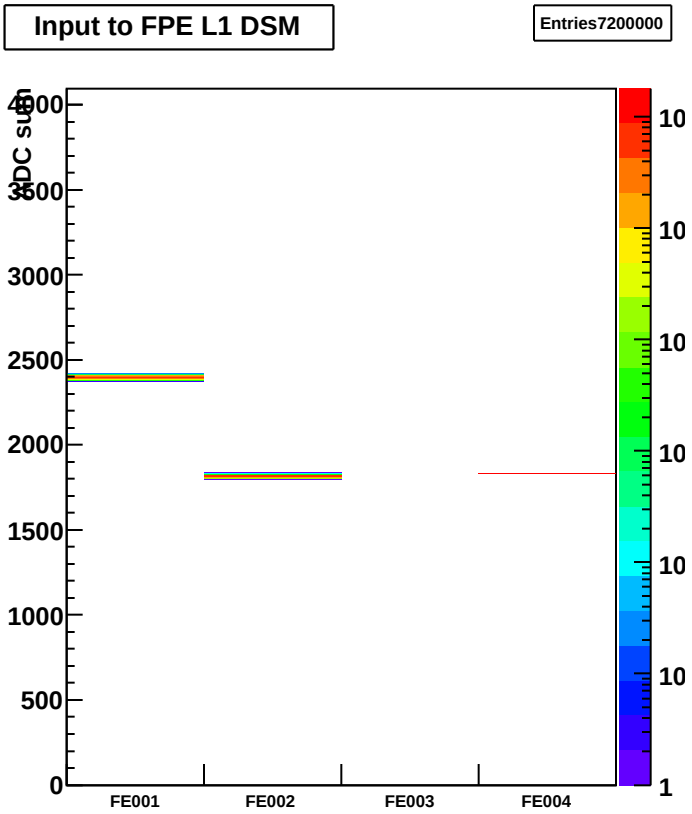

Input to FPD L2 DSM
Entries 1.08e+07
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6


Input to FE001 QT board
Entries 5.76e+07
ADC
channel

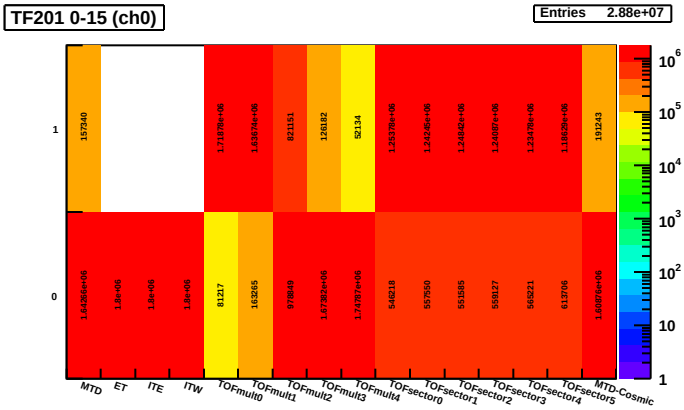

Input to FE002 QT board
Entries 5.76e+07
ADC
channel


Input to FE003 QT board
Entries 5.76e+07
ADC
channel

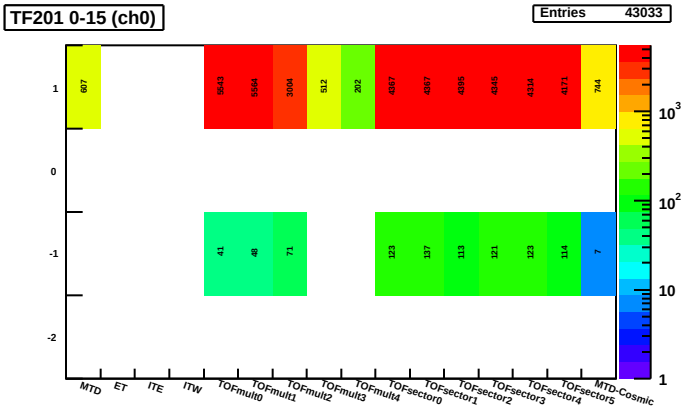

Input to FE004 QT board
Entries 5.76e+07
ADC
channel


Input to FPE L1 DSM
Entries7200000
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
10
1

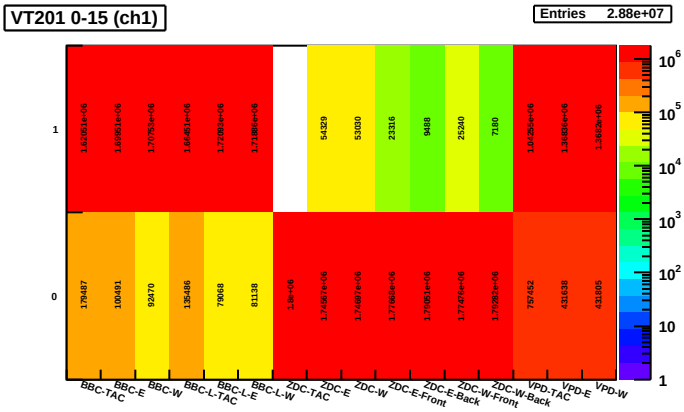
TF201 0-15 (ch0)



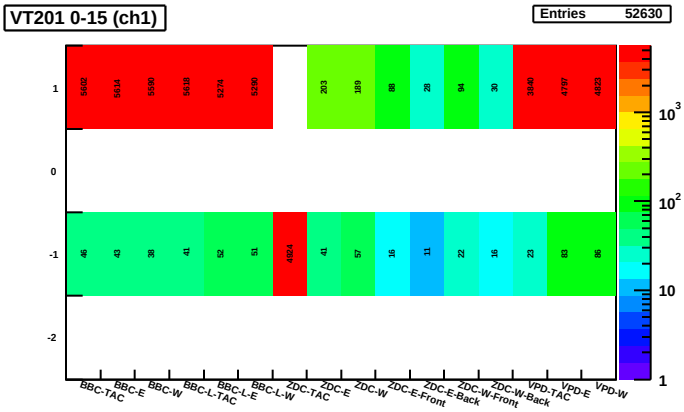
TF201 0-15 (ch0)



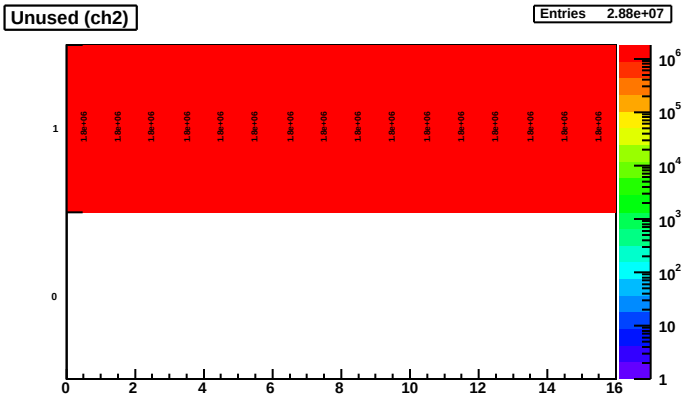
VT201 0-15 (ch1)

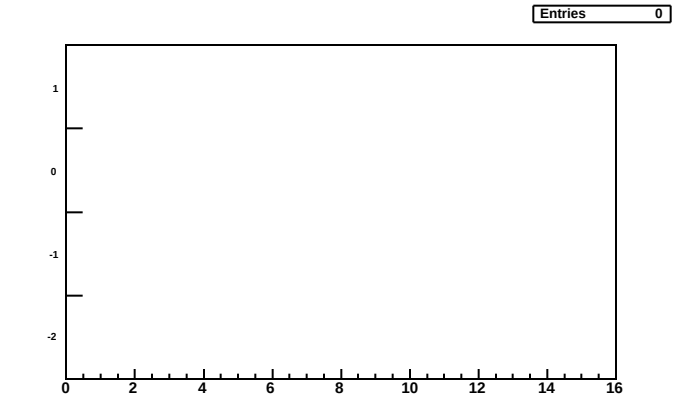


VT201 0-15 (ch1)

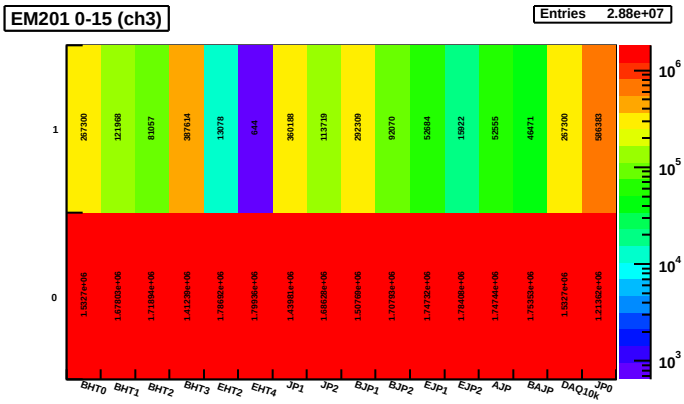


Unused (ch2)





EM201 0-15 (ch3)



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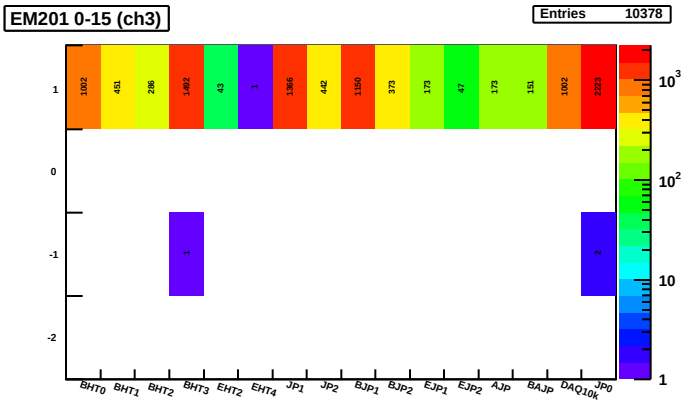
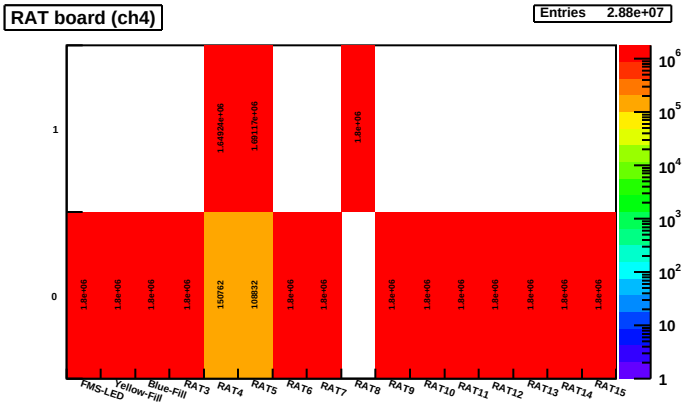
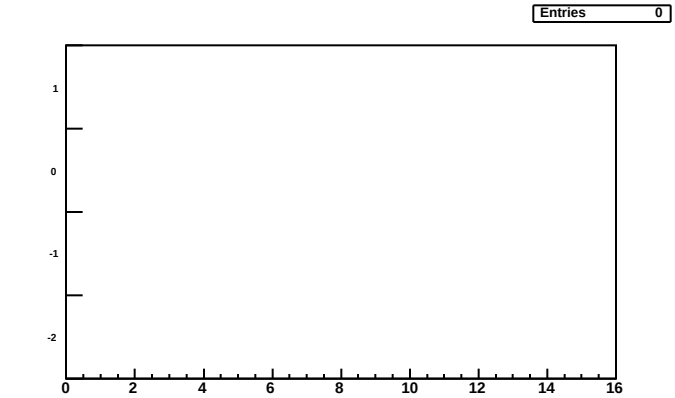


RAT board (ch4)





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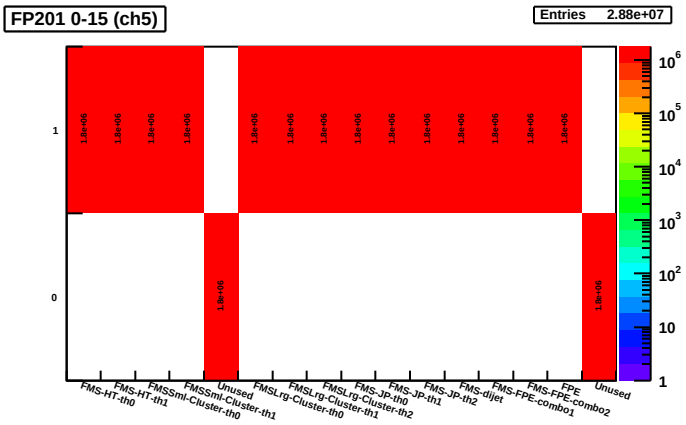

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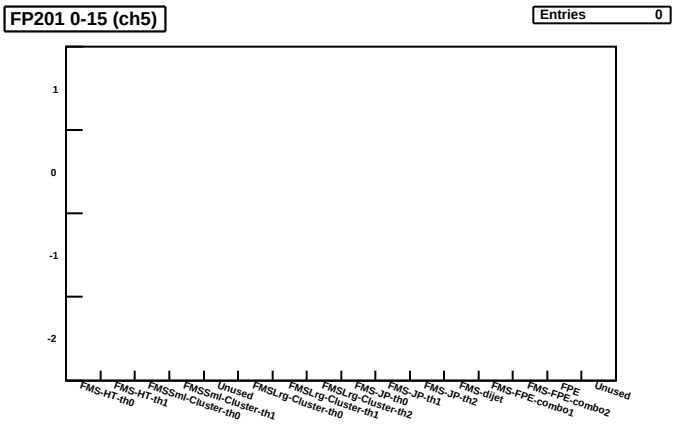

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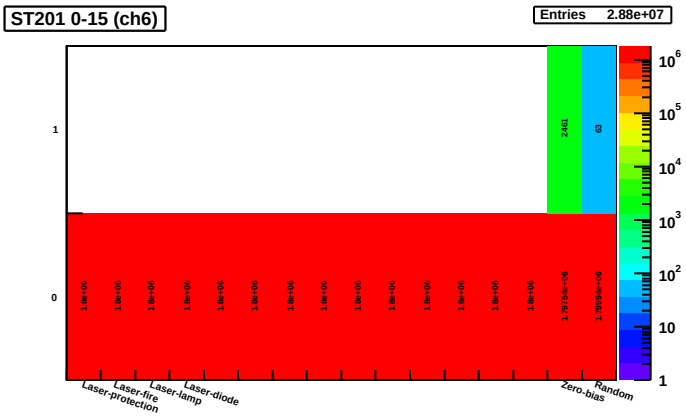

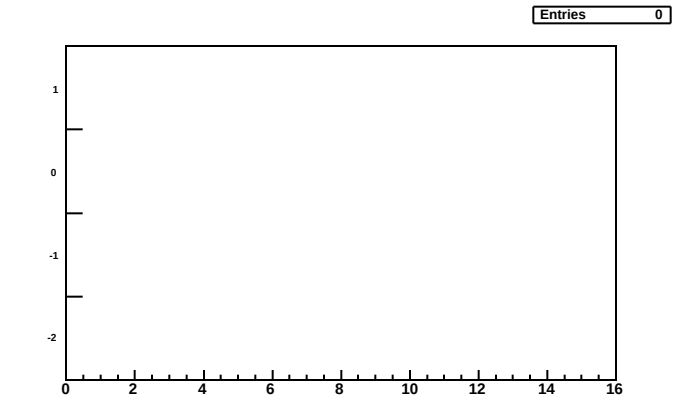
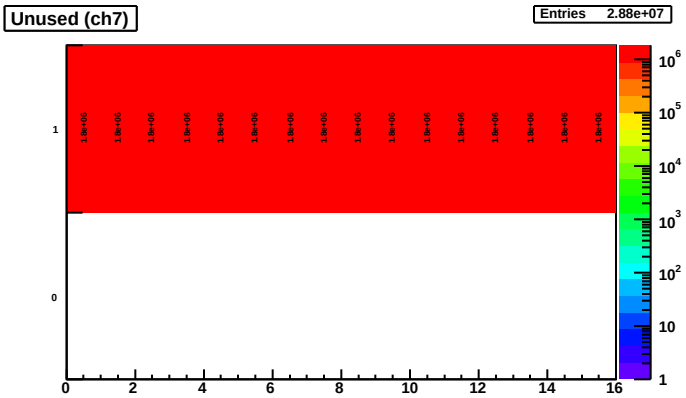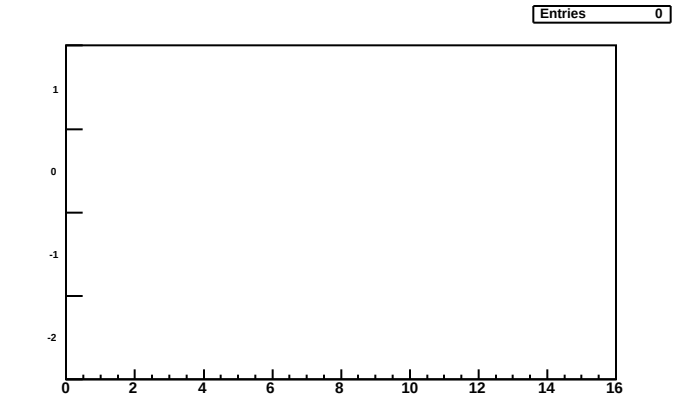
Unused (ch7)