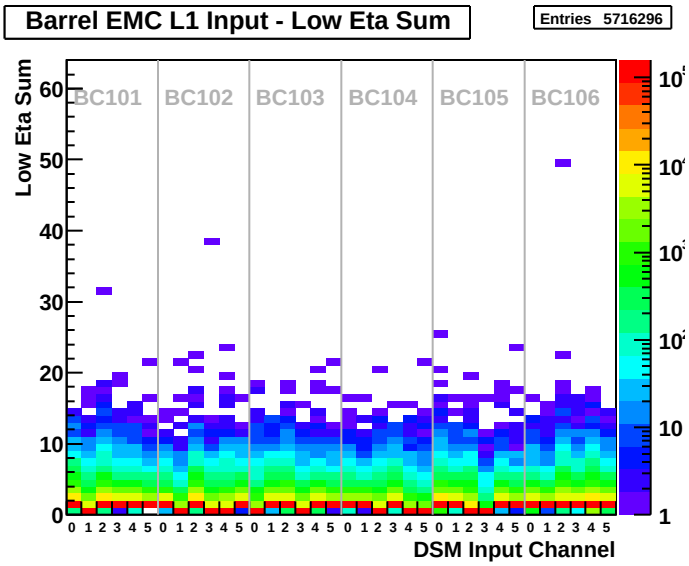
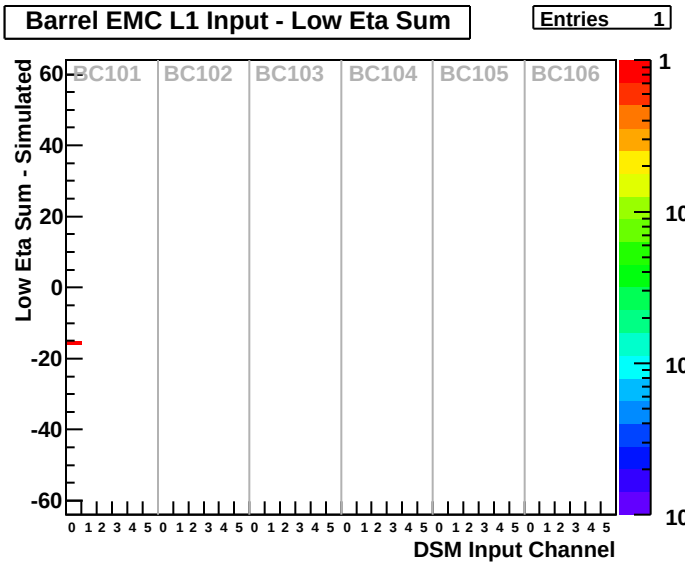
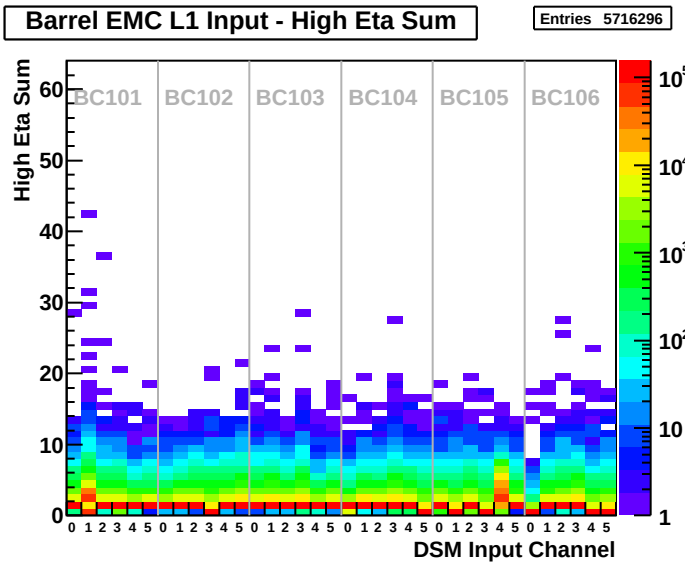
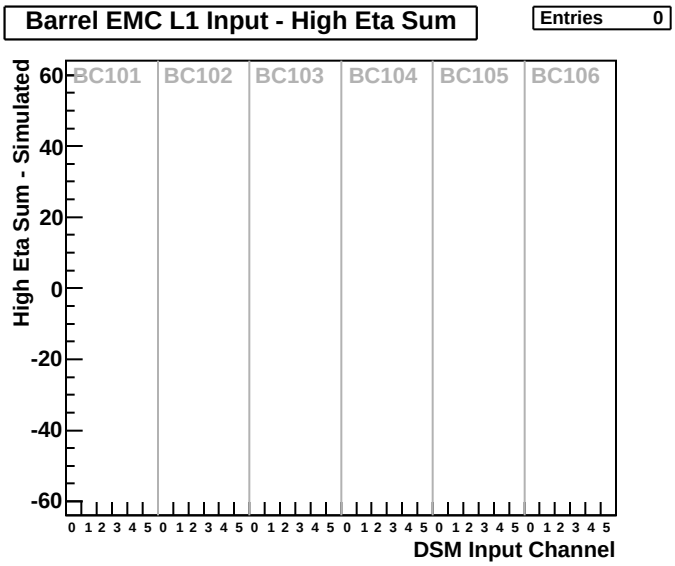
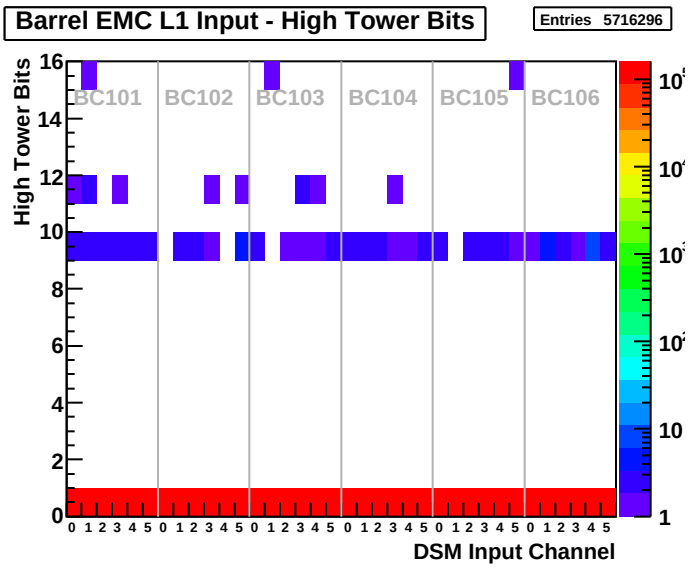
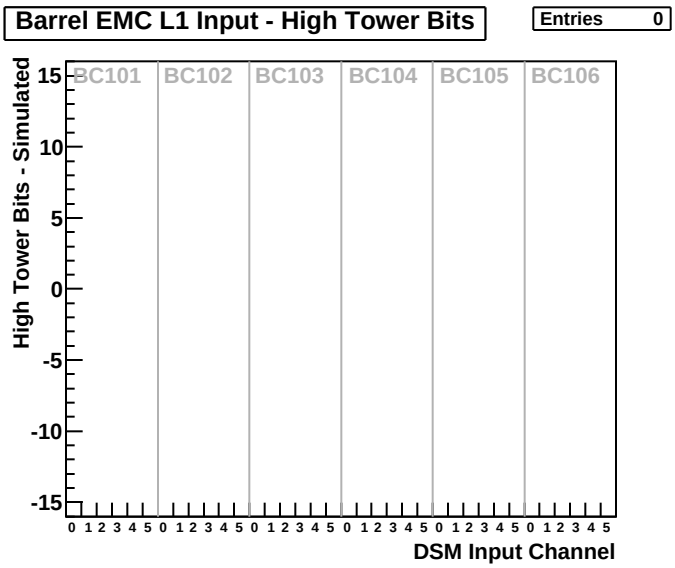

Barrel EMC L1 Input - Low Eta Sum
Entries 5716296
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

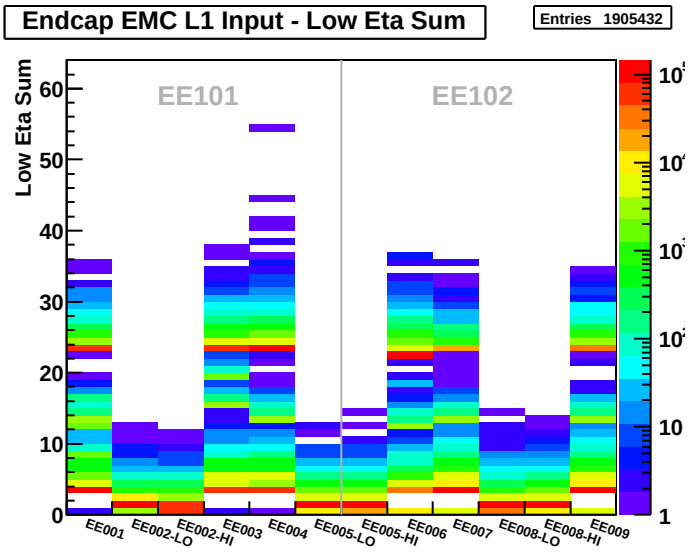

Barrel EMC L1 Input - Low Eta Sum
Entries 1
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

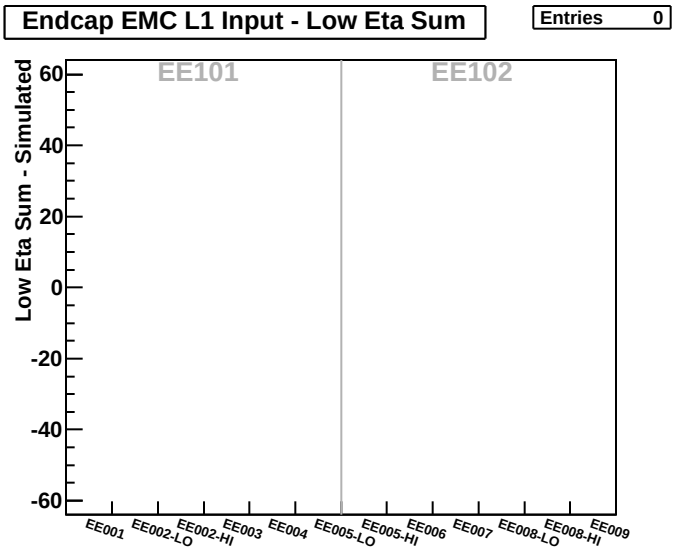

Barrel EMC L1 Input - High Eta Sum
Entries 5716296
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

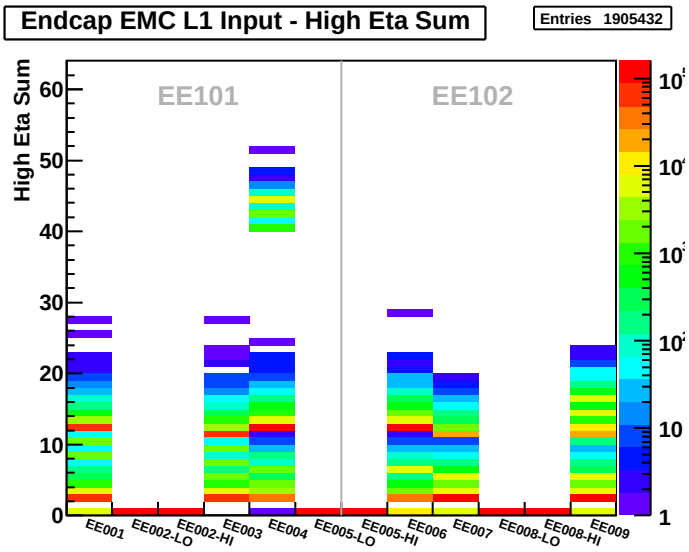

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

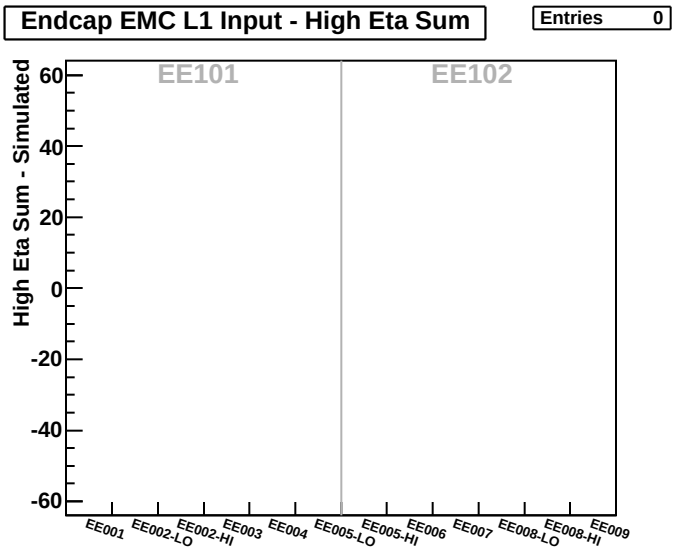

Barrel EMC L1 Input - High Tower Bits
Entries 5716296
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

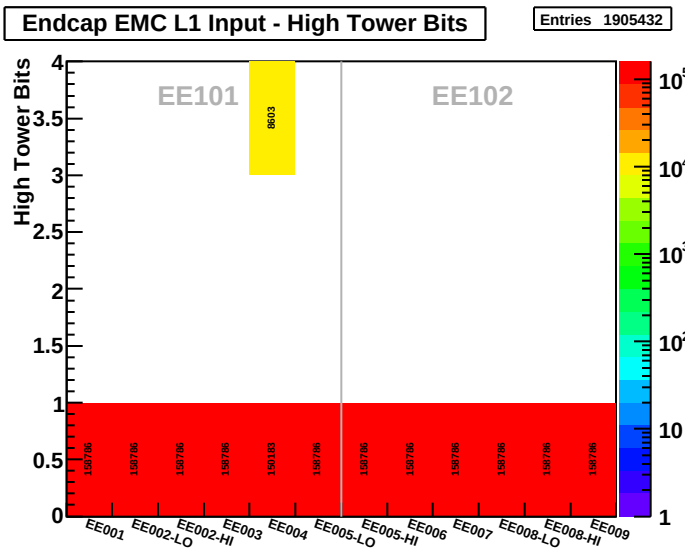

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

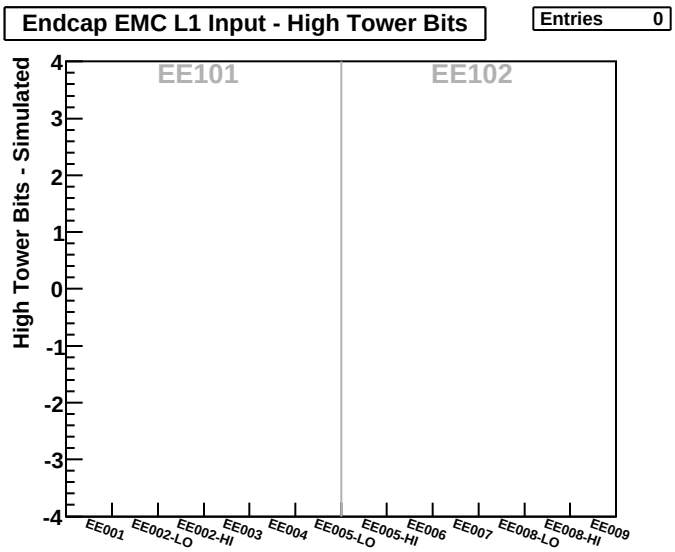

Endcap EMC L1 Input - Low Eta Sum
Entries 1905432
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

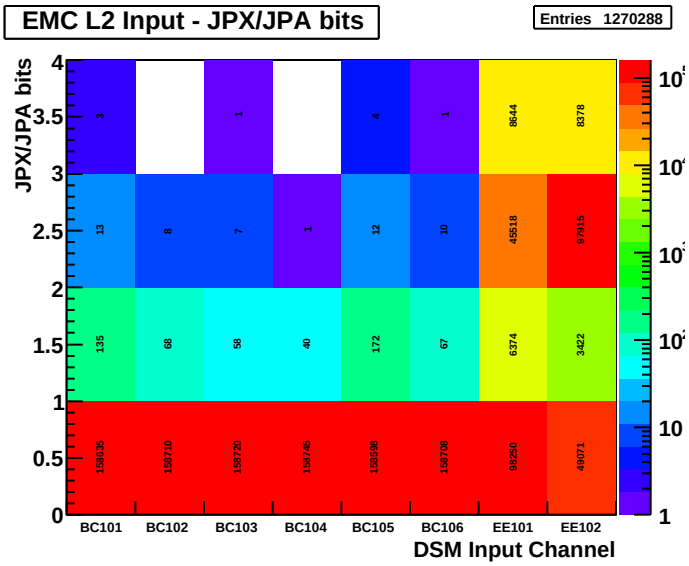

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

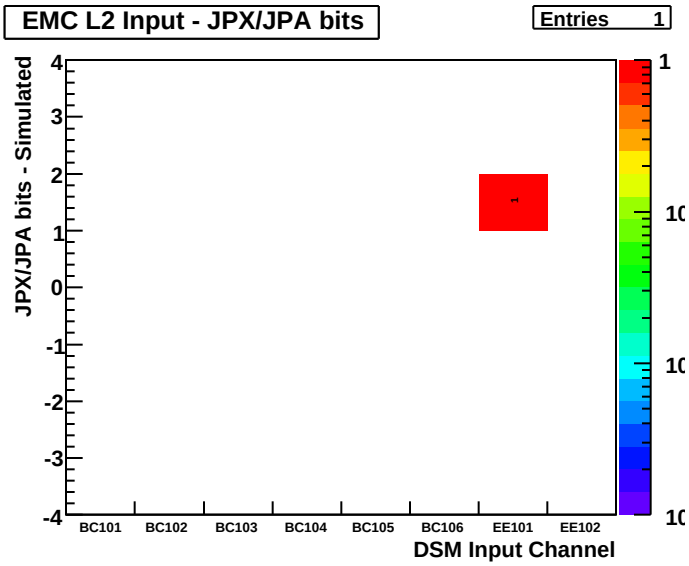

Endcap EMC L1 Input - High Eta Sum
Entries 1905432
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

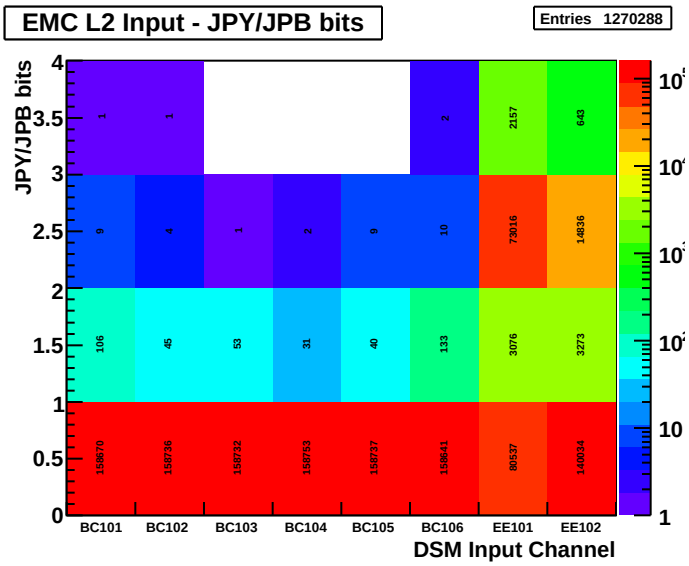

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

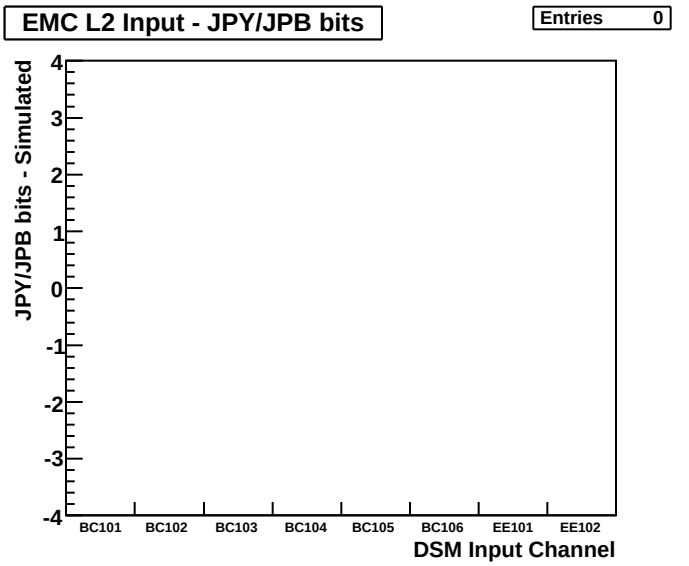

Endcap EMC L1 Input - High Tower Bits
Entries 1905432
High Tower Bits
EE101
EE102
8603
158786 158786 158786 158786 150183 158786 158786 158786 158786 158786 158786 158786
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

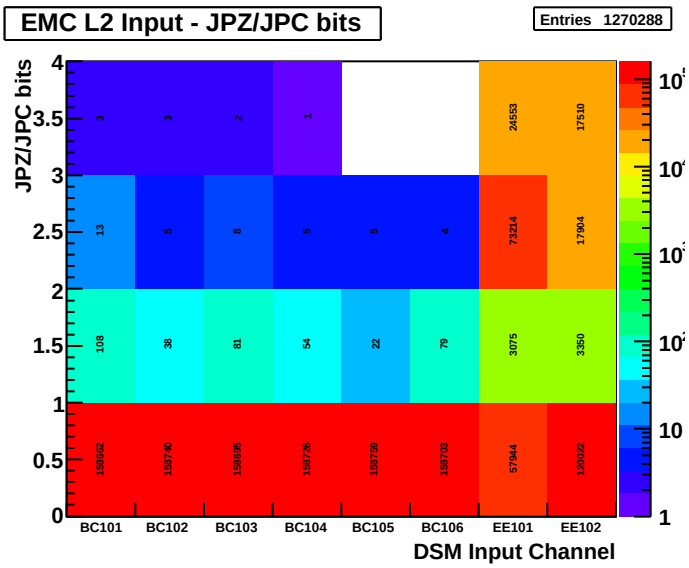

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

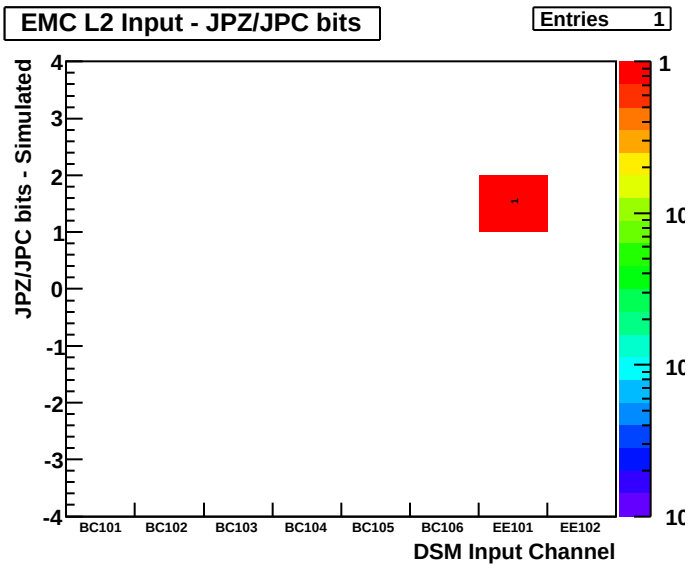

EMC L2 Input - JPX/JPA bits
Entries 1270288
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 1 4 1 8644 8378
13 8 7 1 12 10 45518 97915
135 68 58 40 172 67 6374 3422
158635 158710 158720 158745 158598 158708 98250 49071

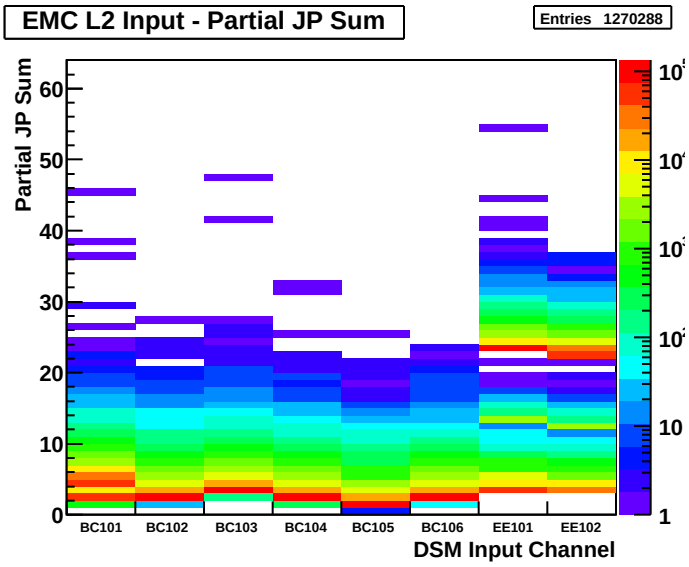

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

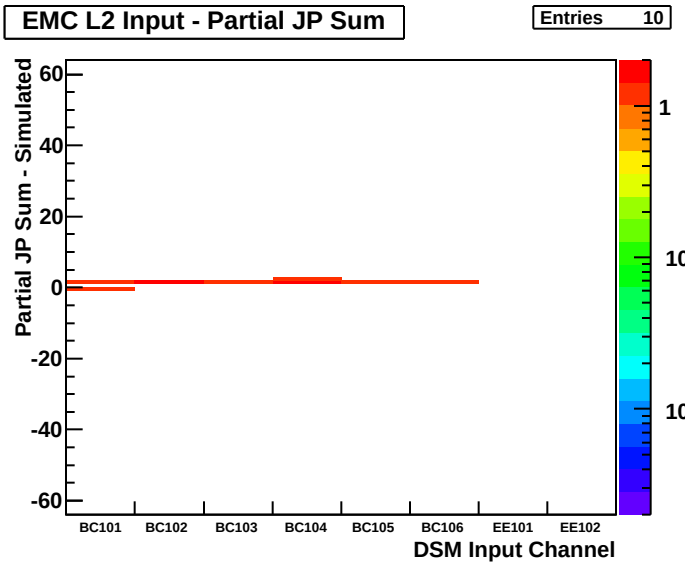

EMC L2 Input - JPY/JPB bits
Entries 1270288
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 2 2157 643
9 4 1 2 9 10 73016 14836
106 45 53 31 40 133 3076 3273
158670 158736 158732 158753 158737 158641 80537 140034

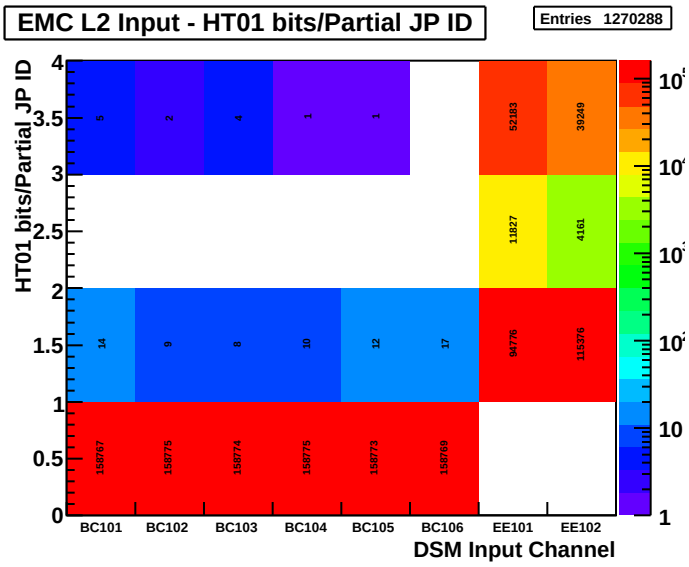

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

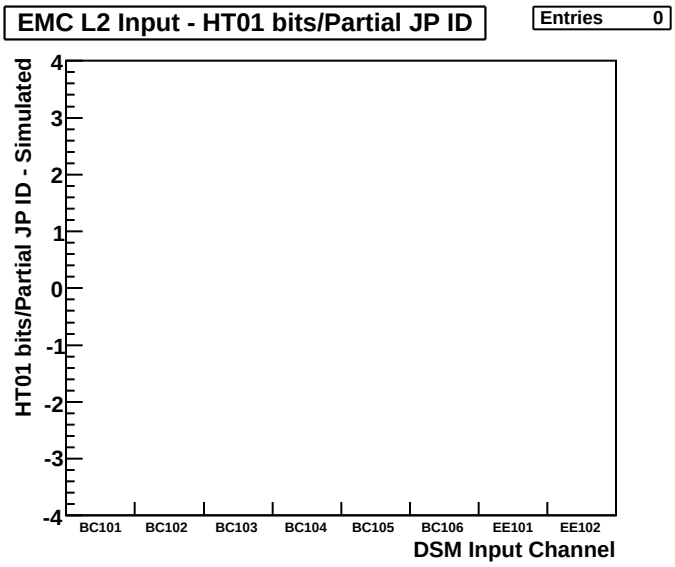

EMC L2 Input - JPZ/JPC bits
Entries 1270288
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 3 2 1 24553 17510
13 5 8 5 5 4 73214 17904
108 38 81 54 22 79 3075 3350
158662 158740 158695 158726 158759 158703 57944 120022

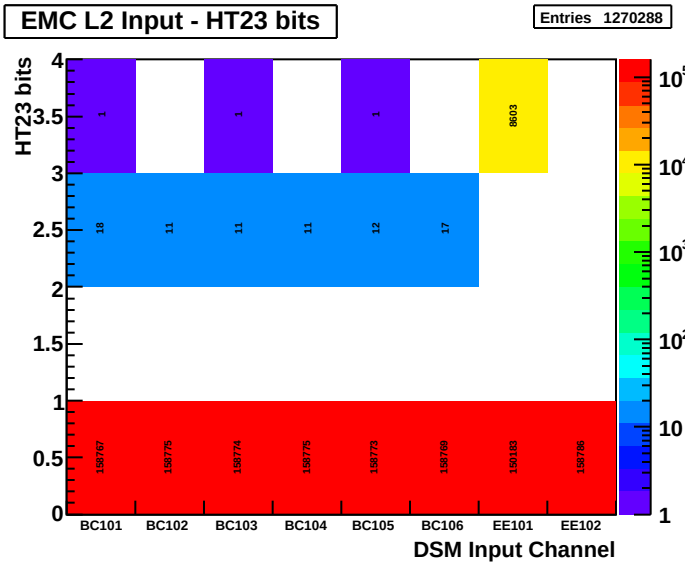

EMC L2 Input - JPZ/JPC bits
Entries 1
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

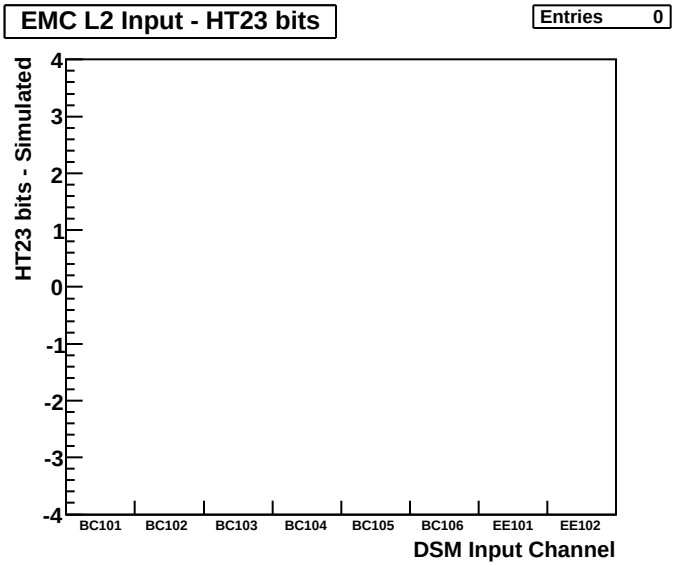

EMC L2 Input - Partial JP Sum
Entries 1270288
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

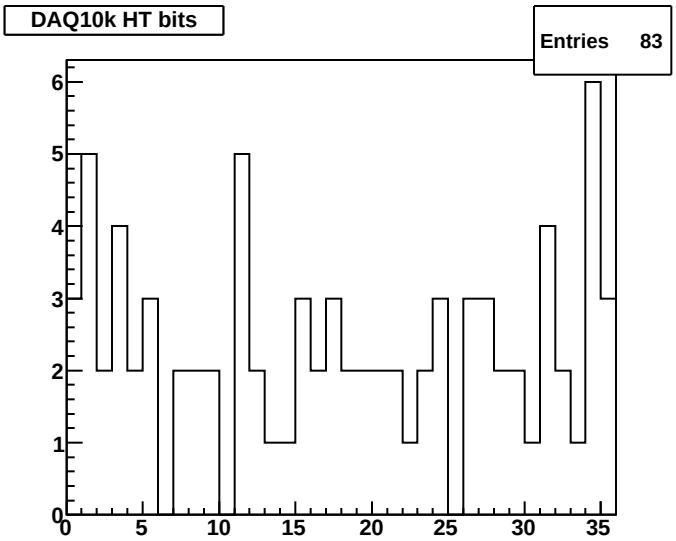

EMC L2 Input - Partial JP Sum
Entries 10
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

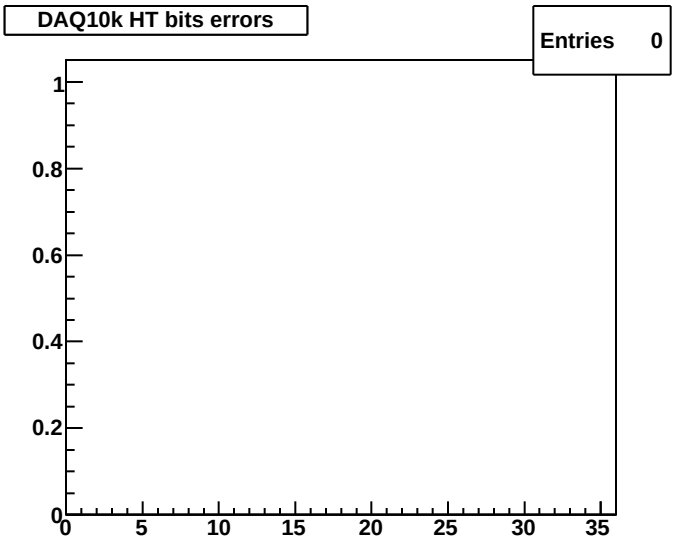

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1270288
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

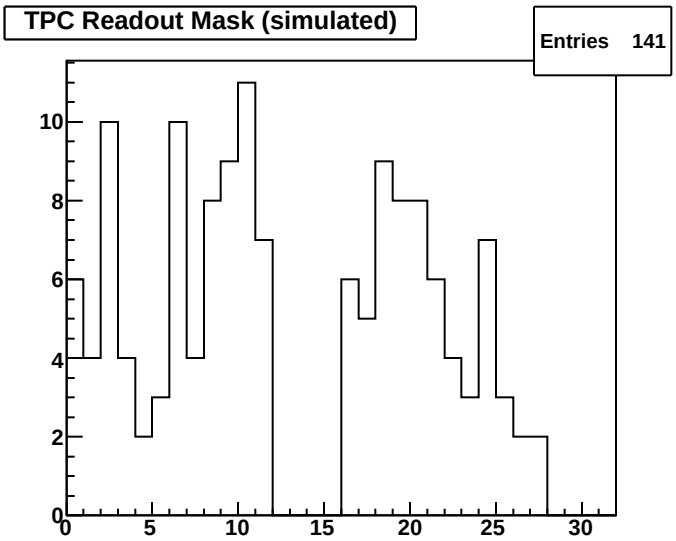

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

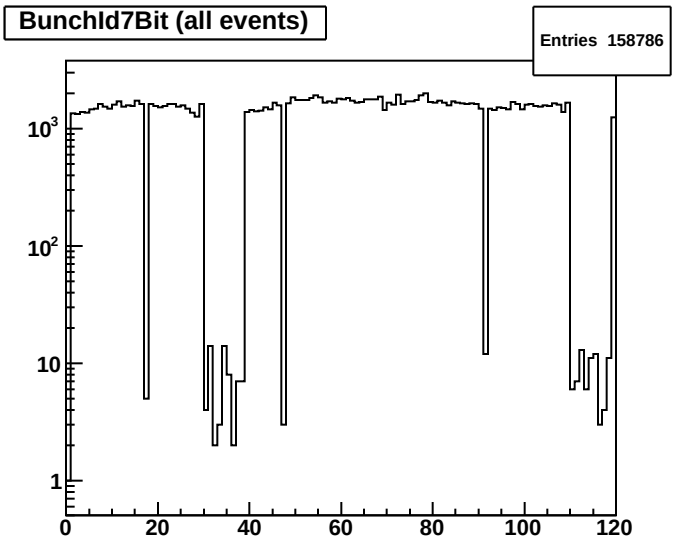

EMC L2 Input - HT23 bits
Entries 1270288
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

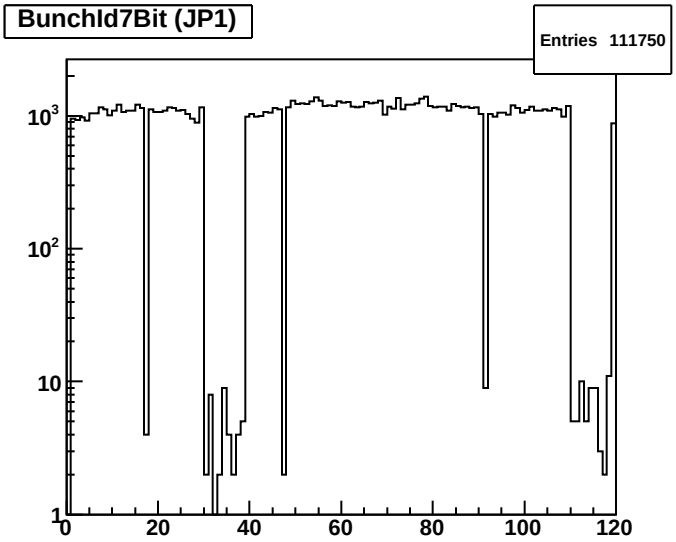

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

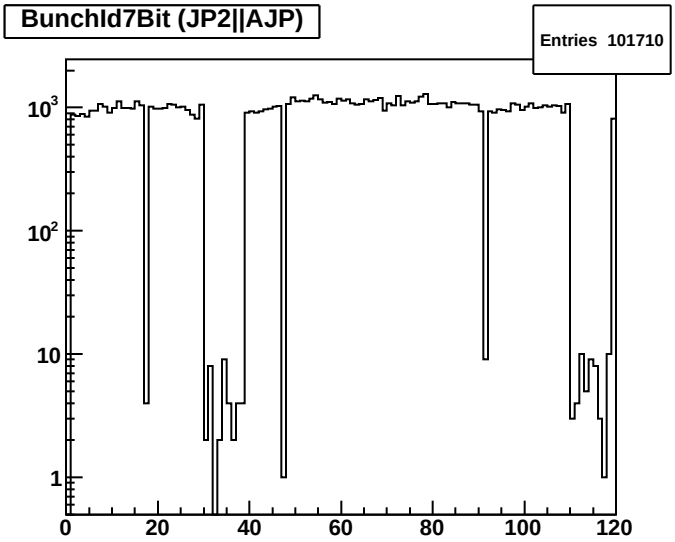

DAQ10k HT bits
Entries 83

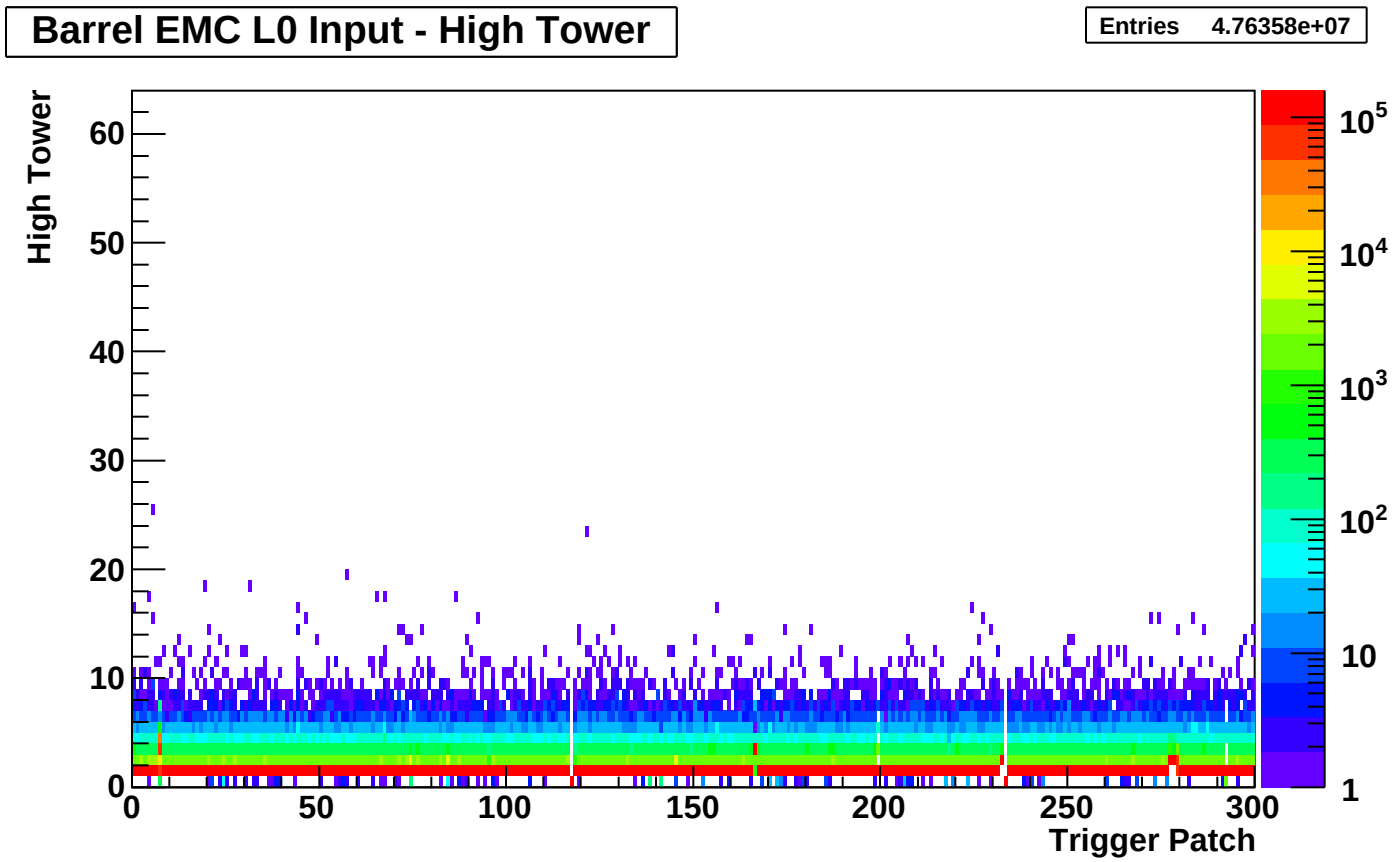

DAQ10k HT bits errors
Entries 0

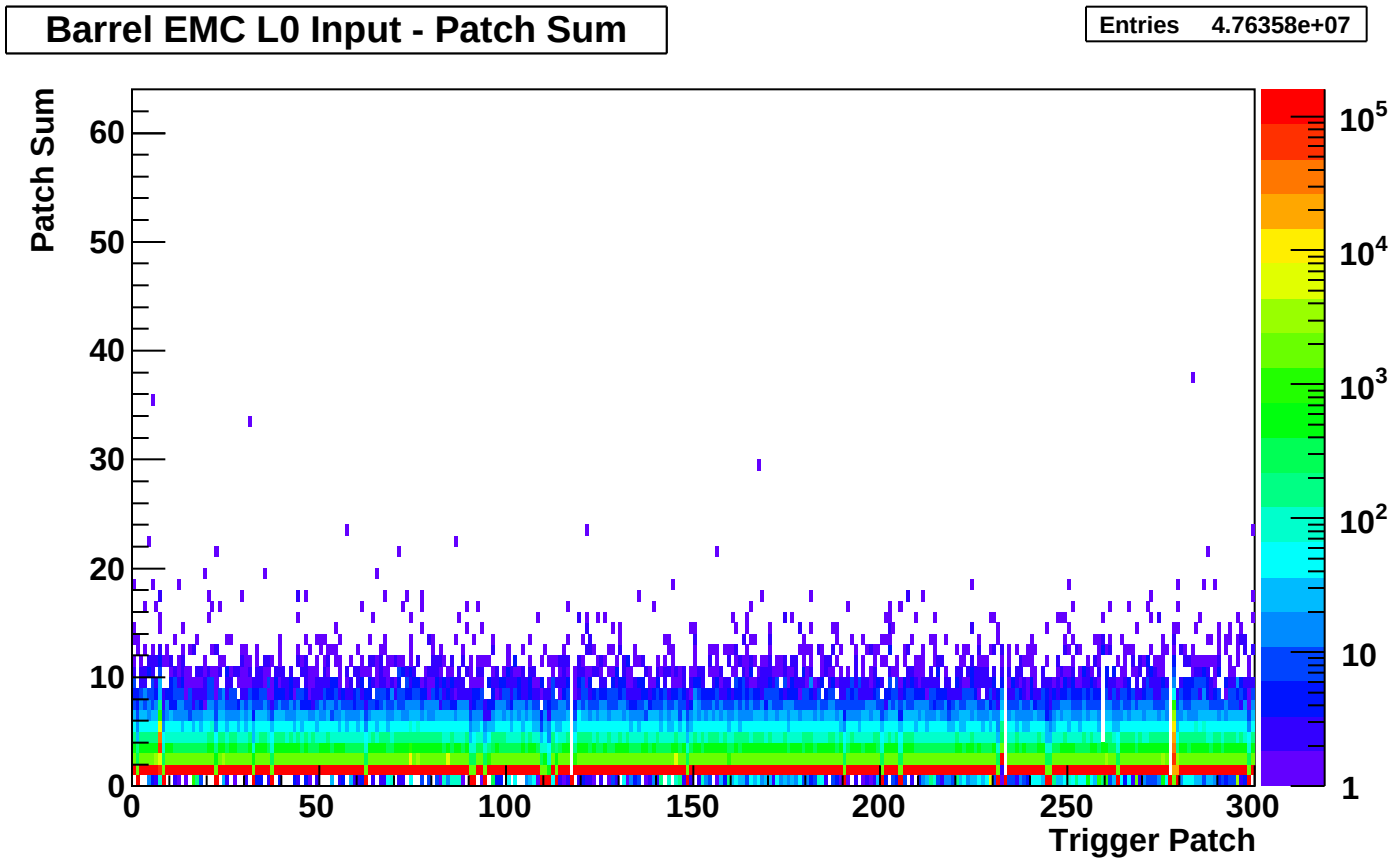

TPC Readout Mask (simulated)
Entries 141

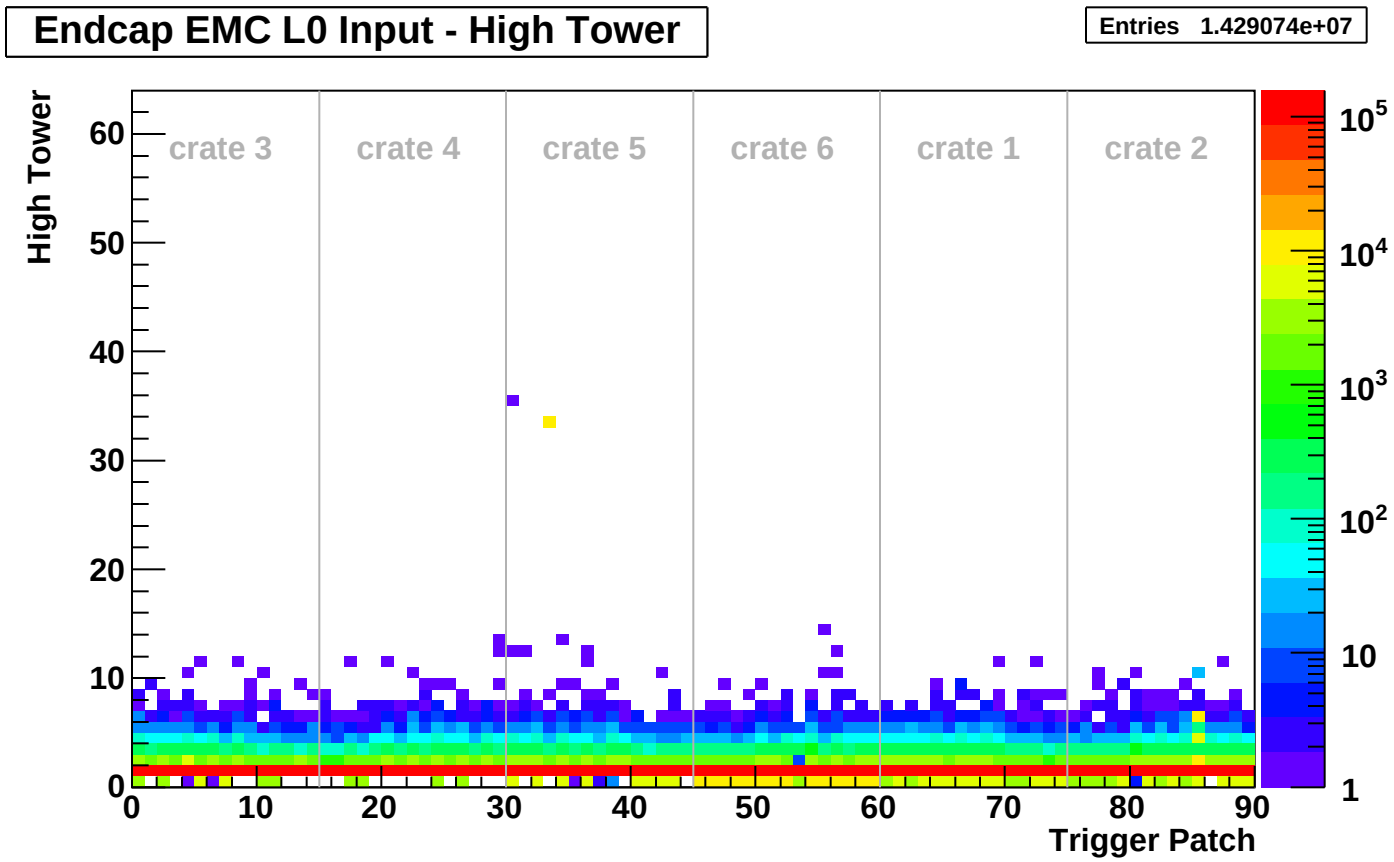

BunchId7Bit (all events)
Entries 158786

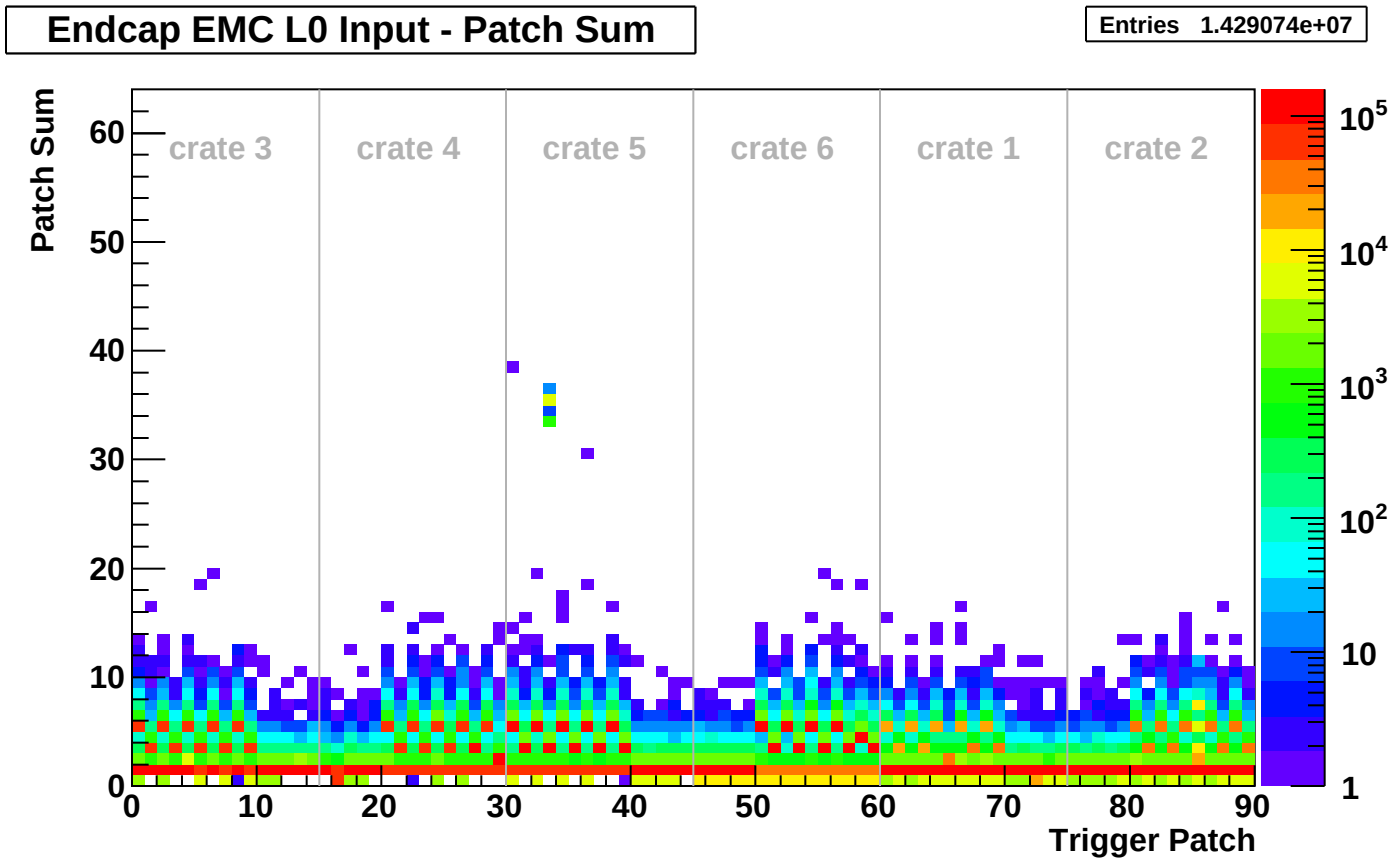

BunchId7Bit (JP1)
Entries 111750

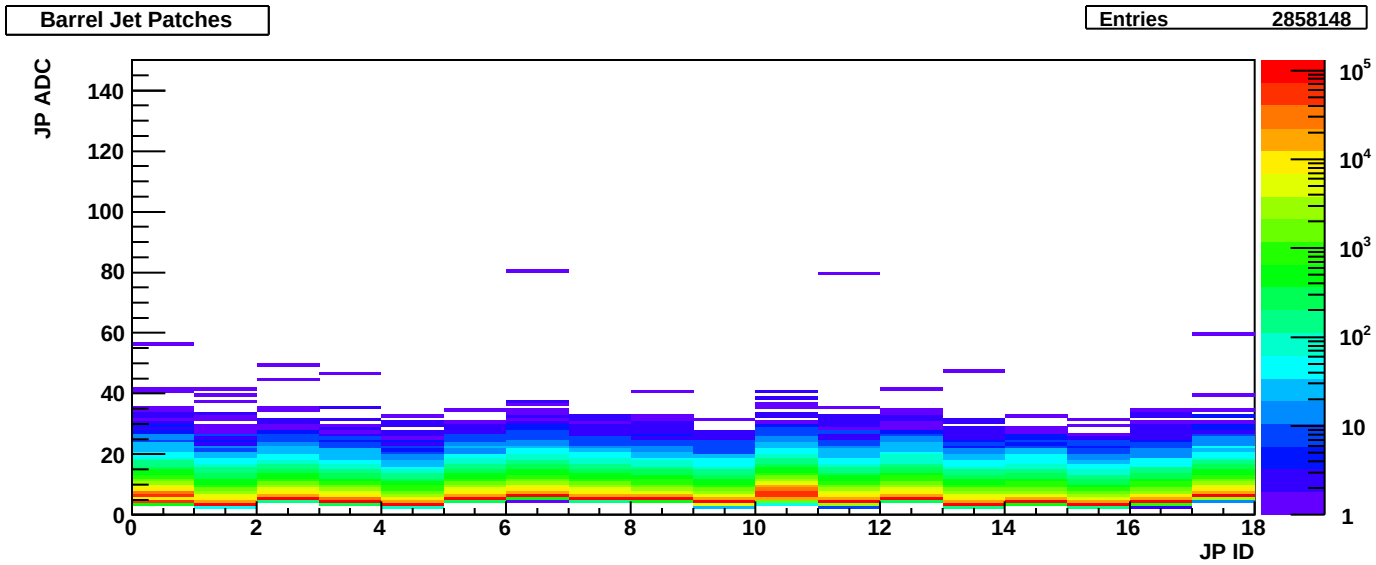

BunchId7Bit (JP2||AJP)
Entries 101710

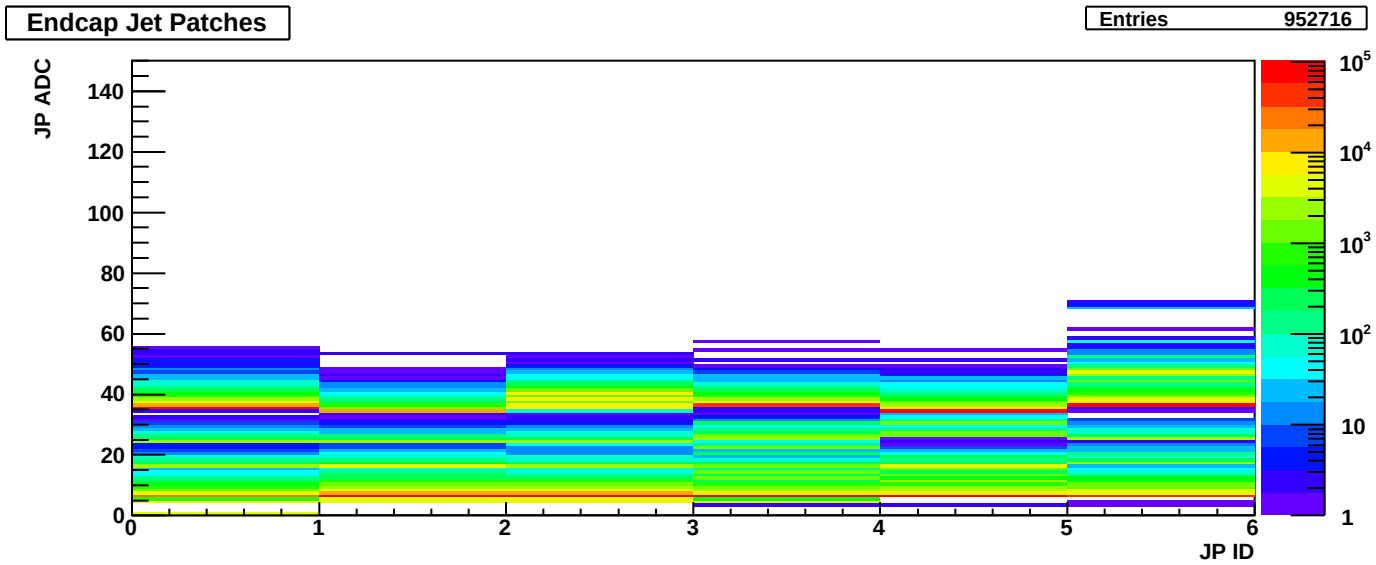

Barrel EMC L0 Input - High Tower
Entries 4.76358e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

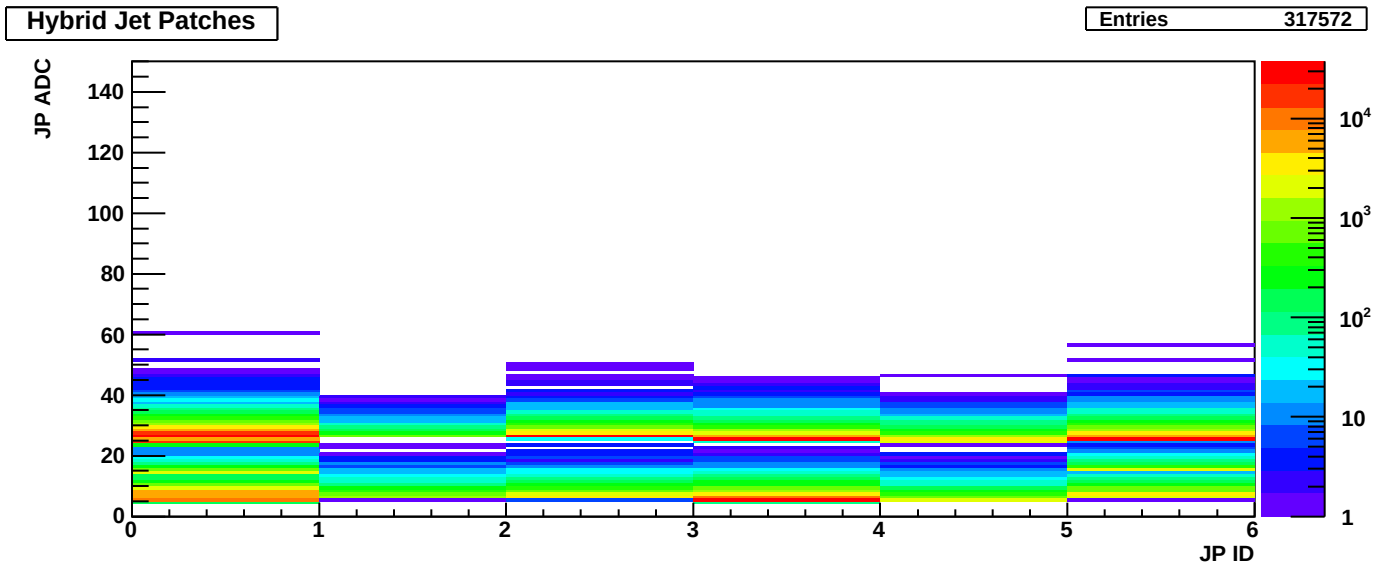

Barrel EMC L0 Input - Patch Sum
Entries 4.76358e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

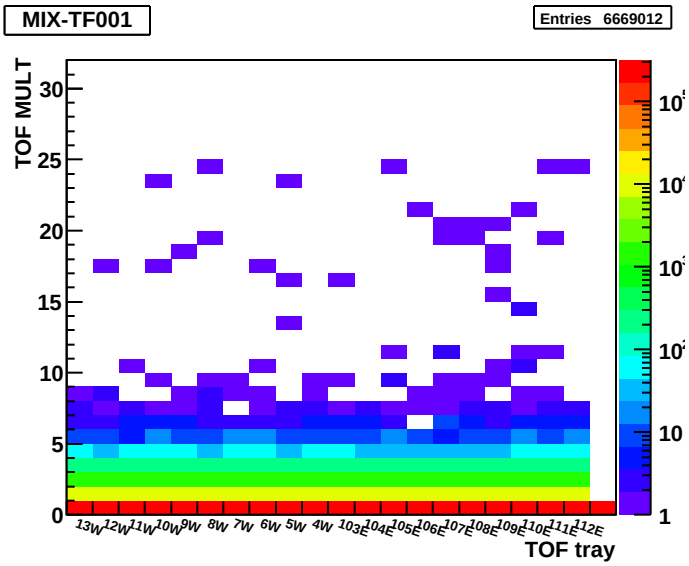

Endcap EMC L0 Input - High Tower
Entries 1.429074e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

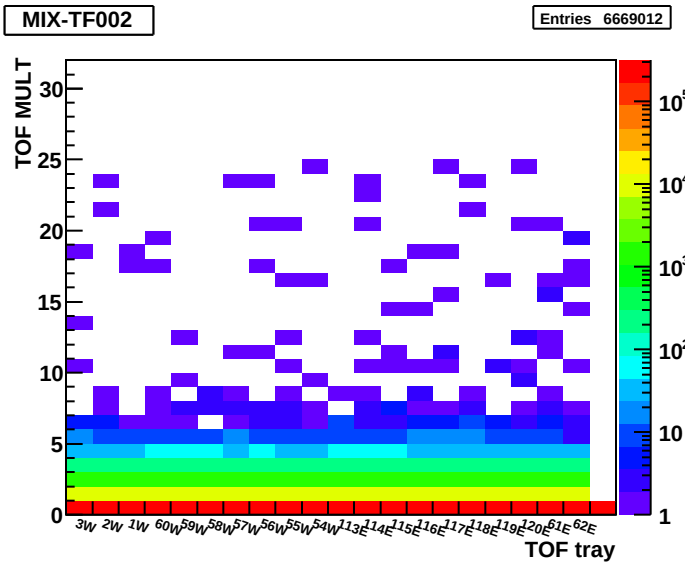

Endcap EMC L0 Input - Patch Sum
Entries 1.429074e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

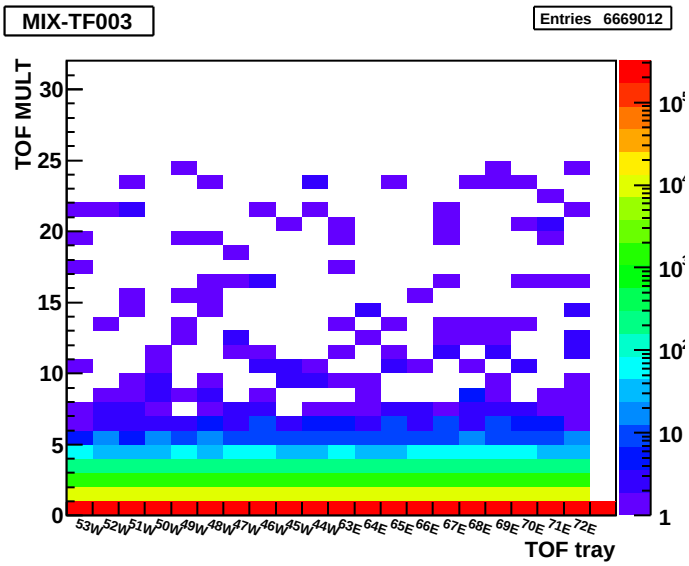

Barrel Jet Patches
Entries 2858148
JP ADC
JP ID

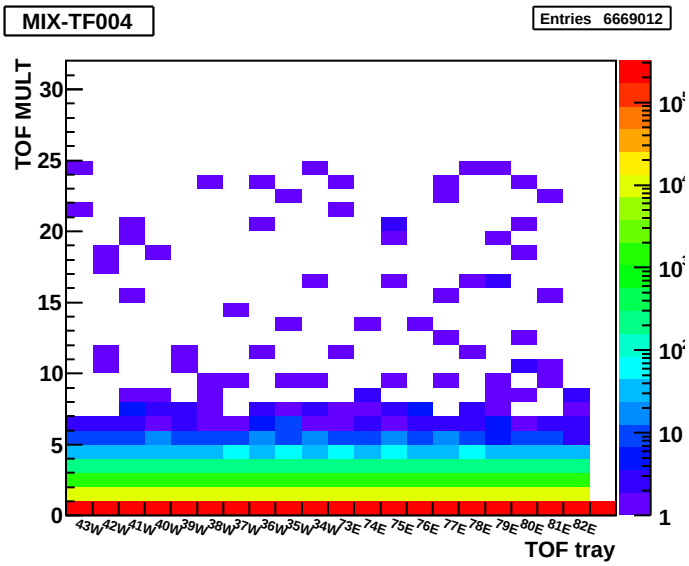

Endcap Jet Patches
Entries 952716
JP ADC
JP ID

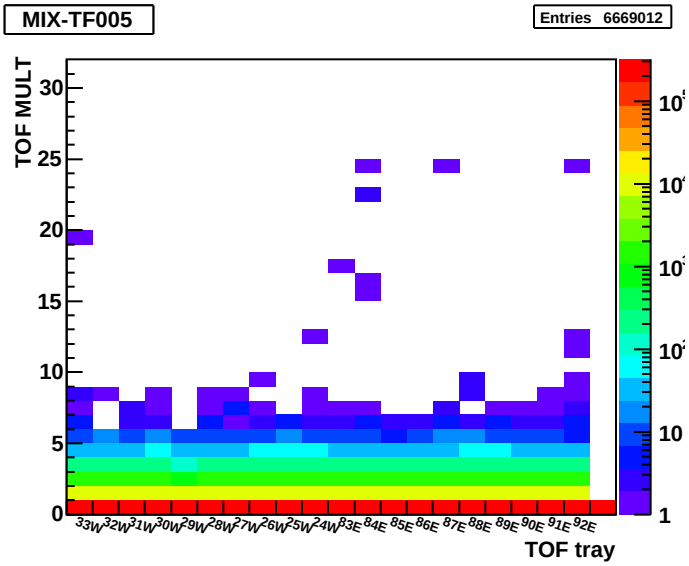

Hybrid Jet Patches
Entries 317572
JP ADC
JP ID

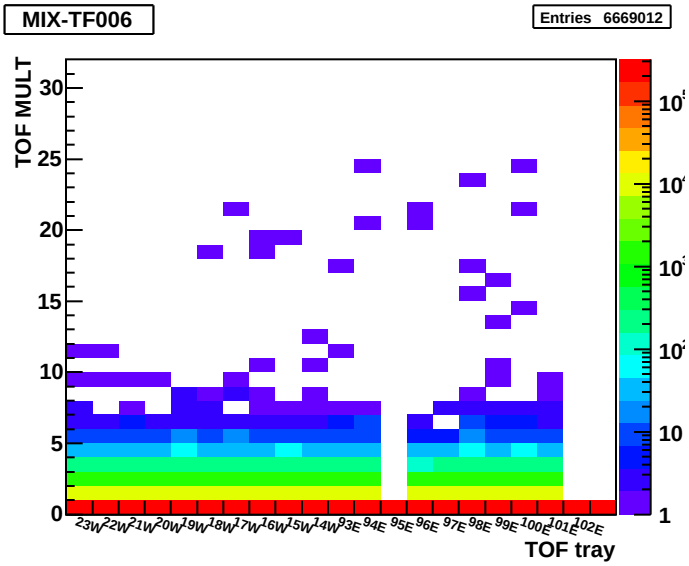

MIX-TF001
Entries 6669012
TOF MULT
TOF tray

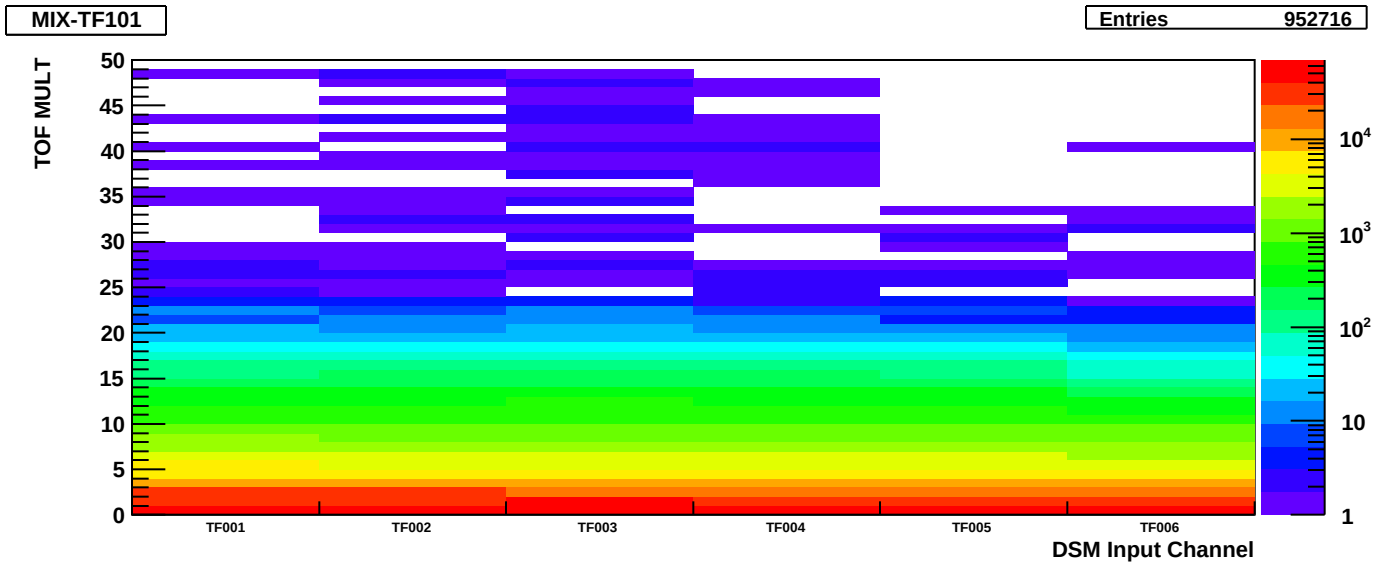

MIX-TF002
Entries 6669012
TOF MULT
TOF tray

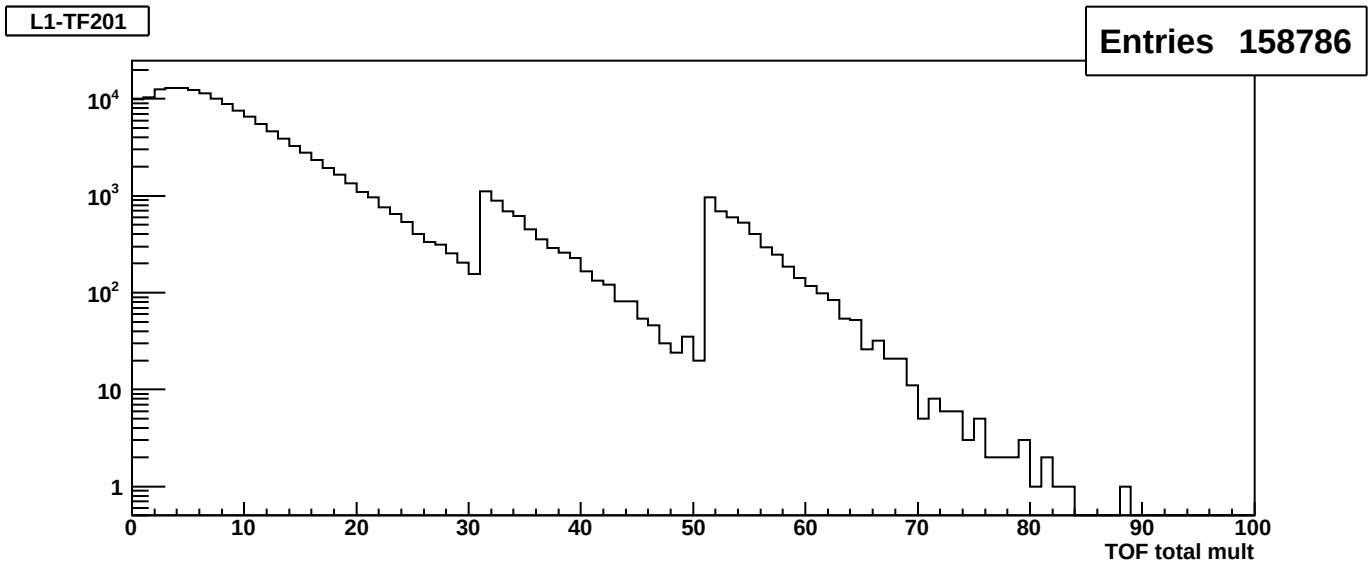

MIX-TF003
Entries 6669012
TOF MULT
TOF tray

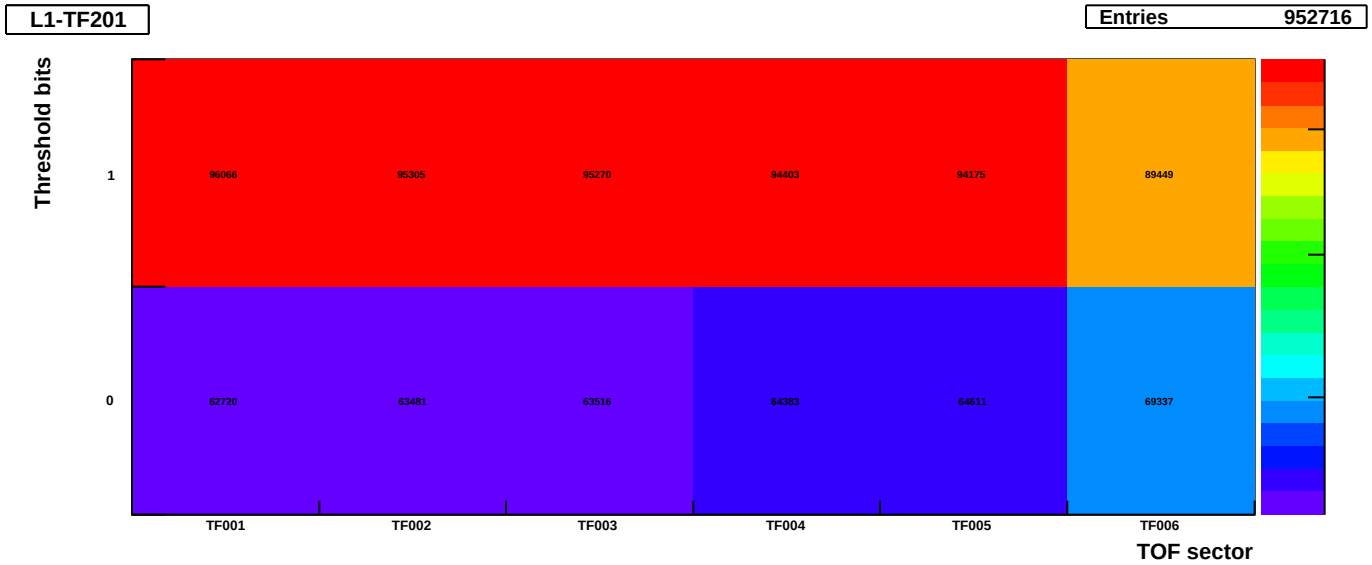

MIX-TF004
Entries 6669012
TOF MULT
TOF tray

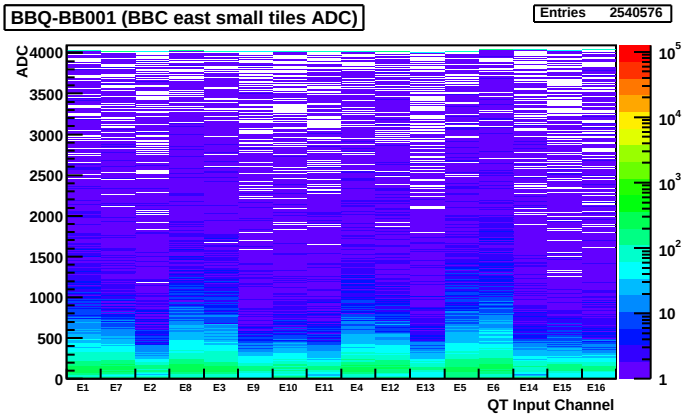

MIX-TF005
Entries 6669012
TOF MULT
TOF tray

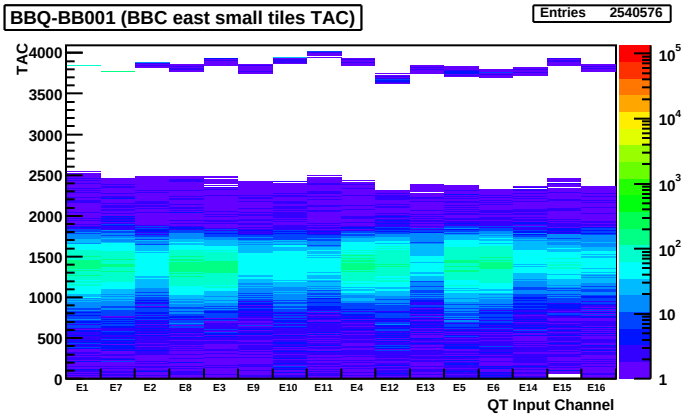

MIX-TF006
Entries 6669012
TOF MULT
TOF tray

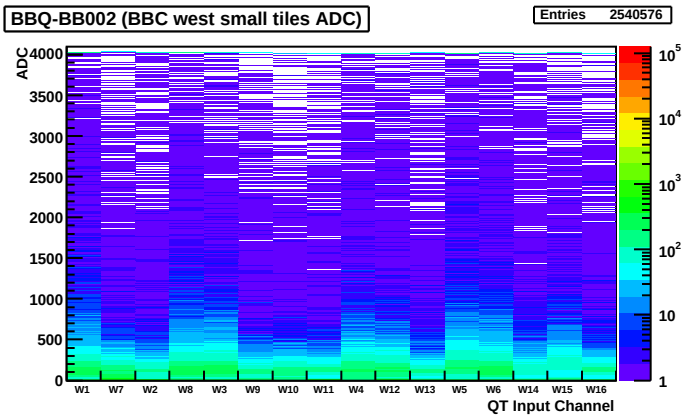

MIX-TF101
Entries 952716
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

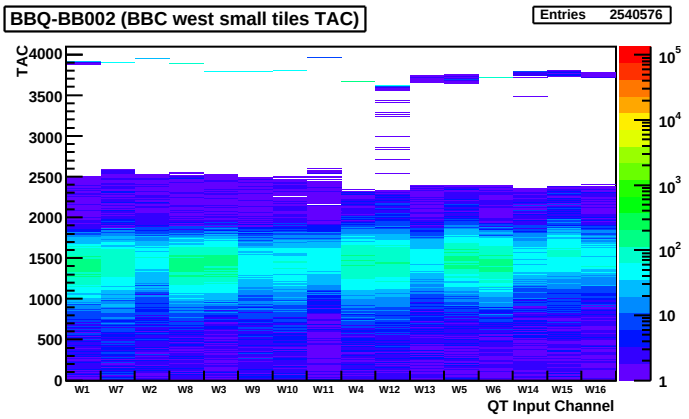

L1-TF201
Entries 158786
TOF total mult

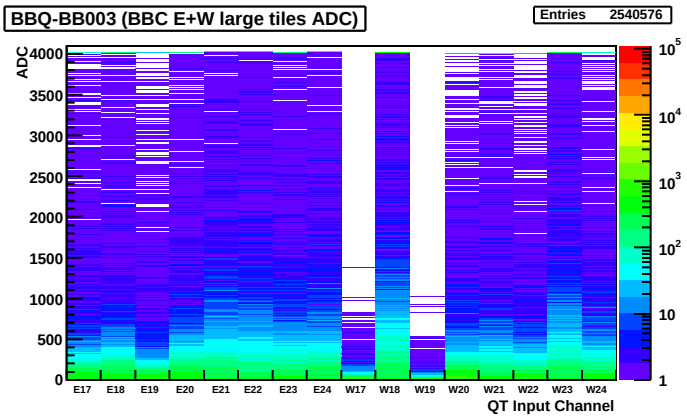

L1-TF201
Entries 952716
Threshold bits
96066
95305
95270
94403
94175
89449
62720
63481
63516
64383
64611
69337
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

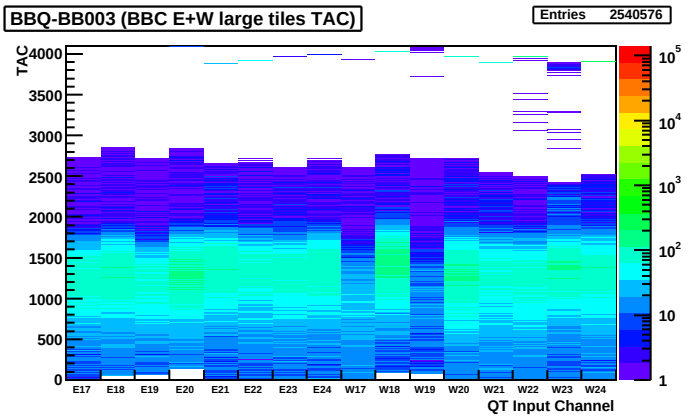

BBQ-BB001 (BBC east small tiles ADC)
Entries 2540576
ADC
QT Input Channel

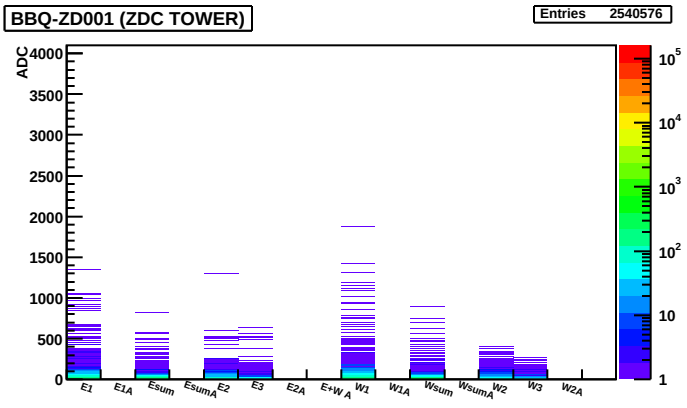

BBQ-BB001 (BBC east small tiles TAC)
Entries 2540576
TAC
QT Input Channel

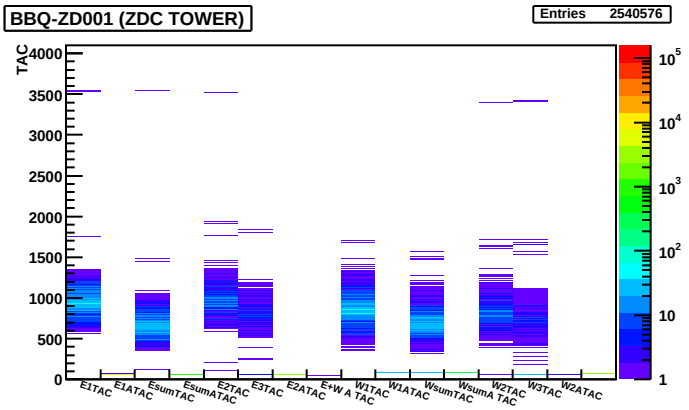

BBQ-BB002 (BBC west small tiles ADC)
Entries 2540576
ADC
QT Input Channel

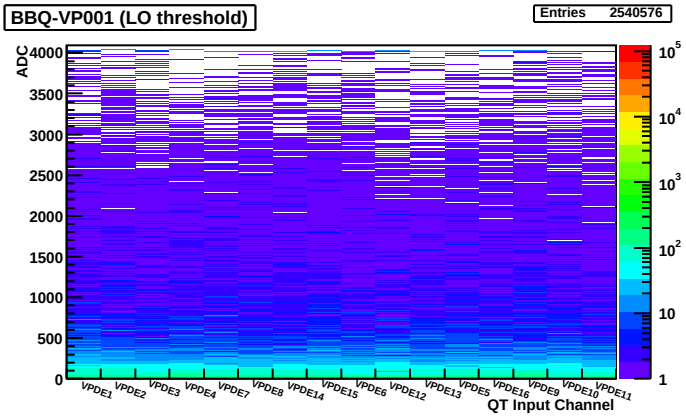

BBQ-BB002 (BBC west small tiles TAC)
Entries 2540576
TAC
QT Input Channel

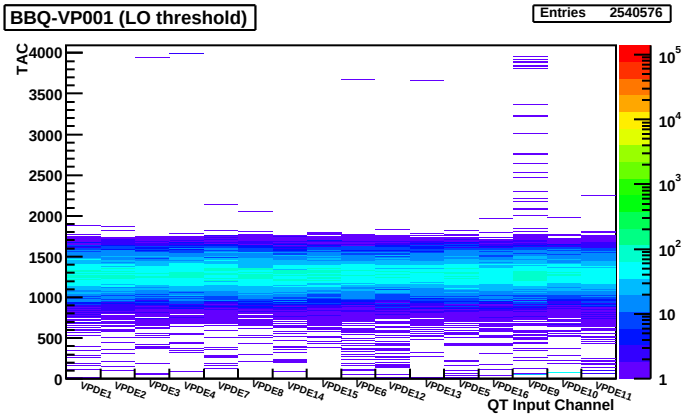

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2540576
ADC
QT Input Channel

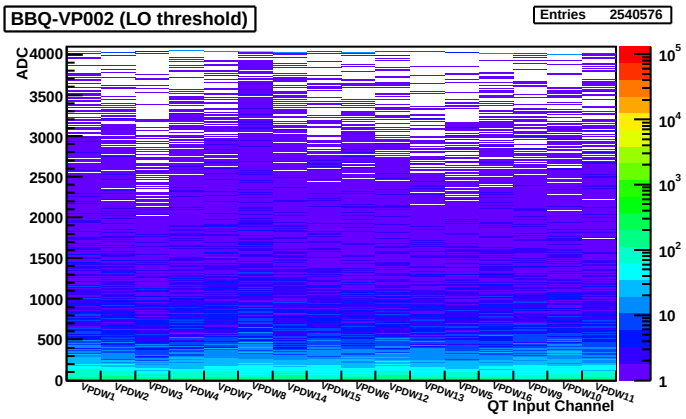

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2540576
TAC
QT Input Channel

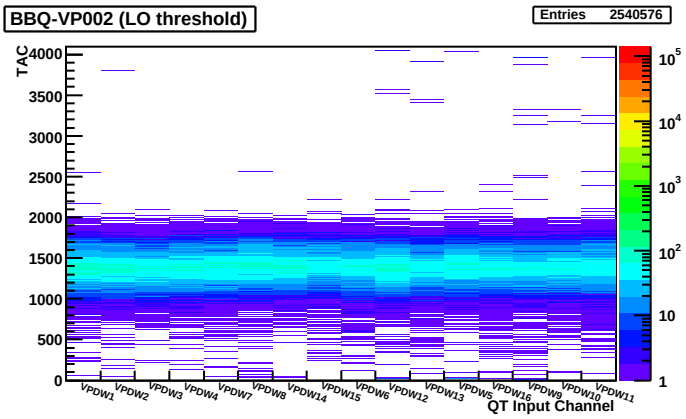

BBQ-ZD001 (ZDC TOWER)
Entries 2540576
ADC

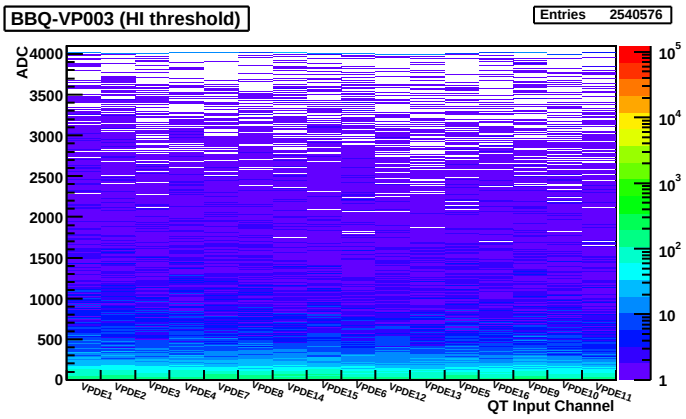

BBQ-ZD001 (ZDC TOWER)
Entries 2540576
TAC

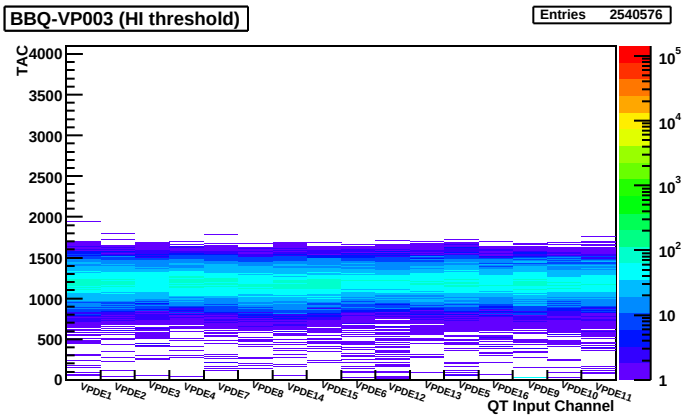

BBQ-VP001 (LO threshold)
Entries 2540576
ADC
QT Input Channel

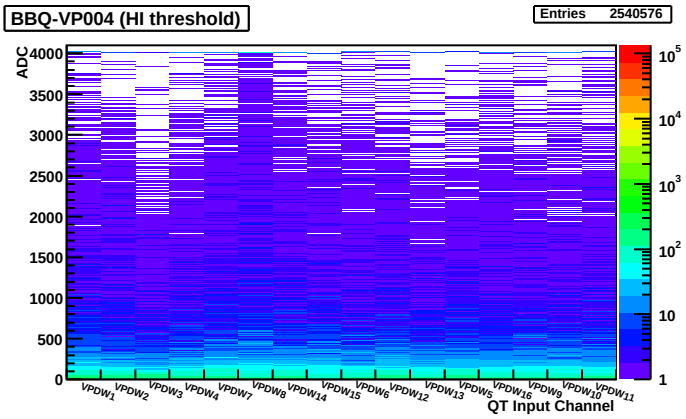

BBQ-VP001 (LO threshold)
Entries 2540576
TAC
QT Input Channel

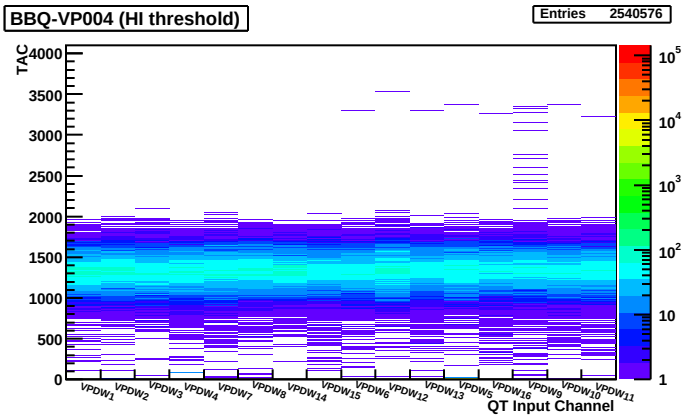

BBQ-VP002 (LO threshold)
Entries 2540576
ADC
QT Input Channel

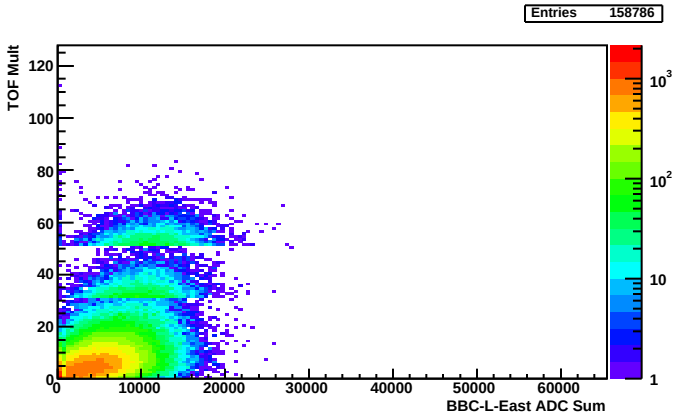

BBQ-VP002 (LO threshold)
Entries 2540576
TAC
QT Input Channel

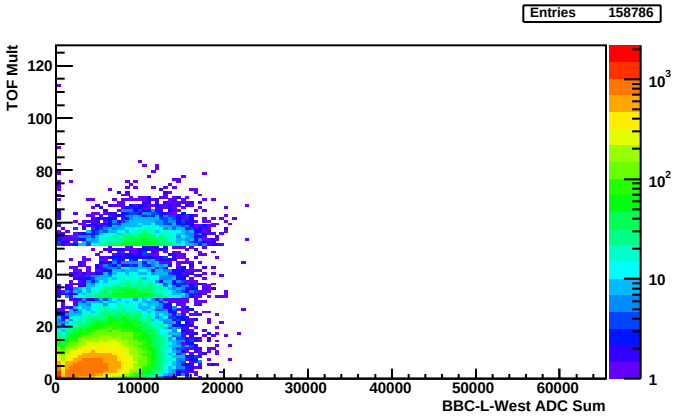

BBQ-VP003 (HI threshold)
Entries 2540576
ADC
QT Input Channel

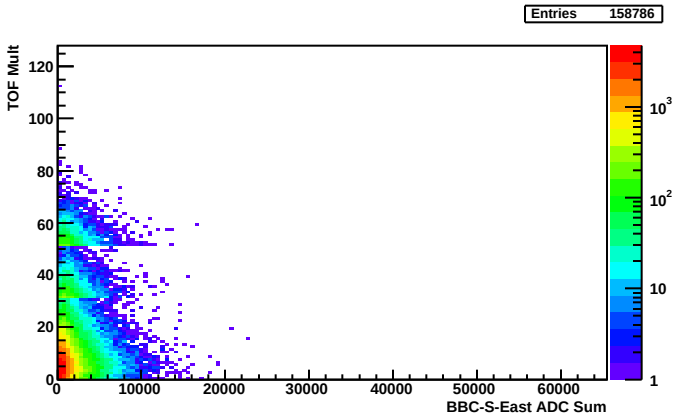

BBQ-VP003 (HI threshold)
Entries 2540576
TAC
QT Input Channel

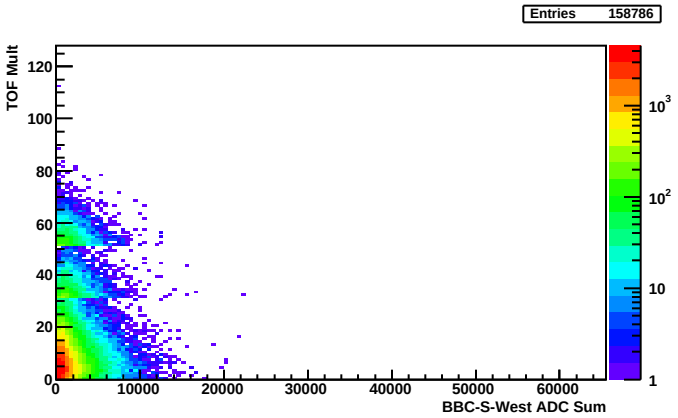

BBQ-VP004 (HI threshold)
Entries 2540576
ADC
QT Input Channel

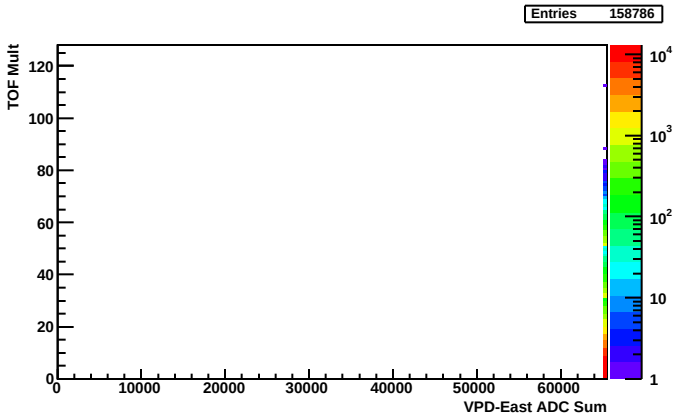

BBQ-VP004 (HI threshold)
Entries 2540576
TAC
QT Input Channel

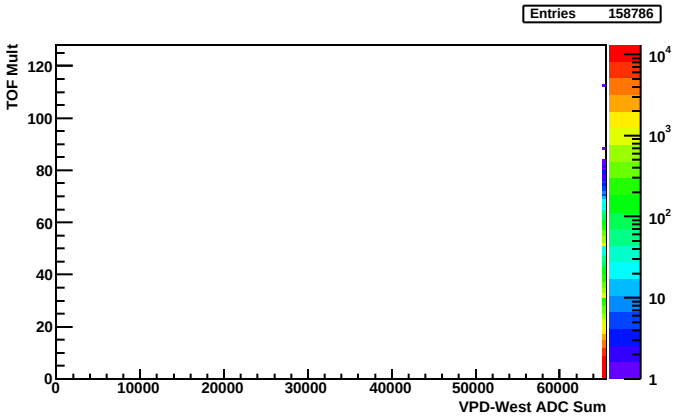

Entries 158786
TOF Mult
BBC-L-East ADC Sum

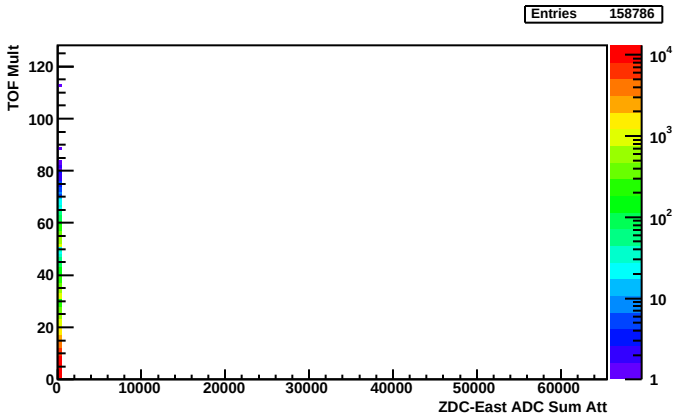

Entries 158786
TOF Mult
BBC-L-West ADC Sum

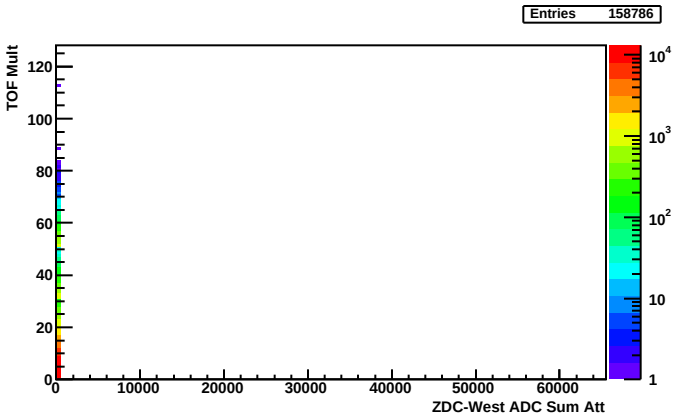

Entries 158786
TOF Mult
BBC-S-East ADC Sum

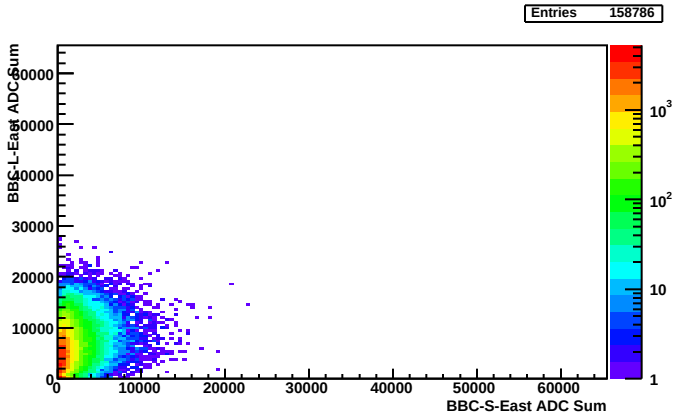

Entries 158786
TOF Mult
BBC-S-West ADC Sum

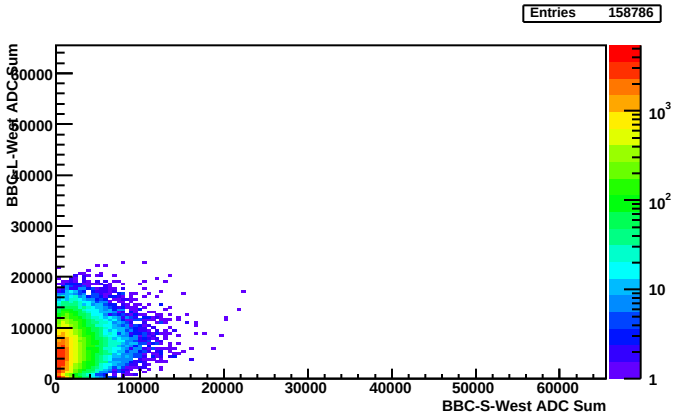

Entries 158786
TOF Mult
VPD-East ADC Sum

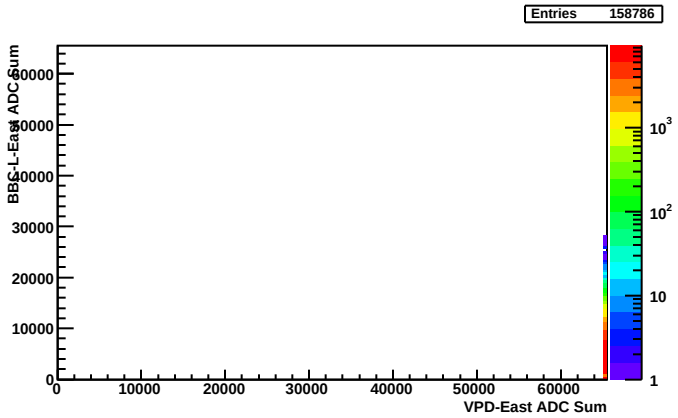

Entries 158786
TOF Mult
VPD-West ADC Sum

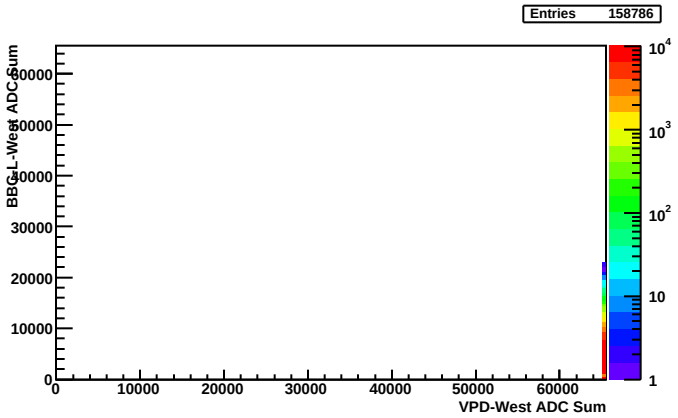

Entries 158786
TOF Mult
ZDC-East ADC Sum Att

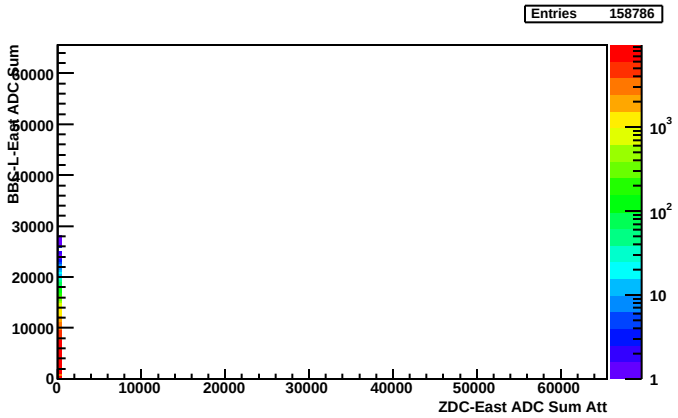

Entries 158786
TOF Mult
ZDC-West ADC Sum Att

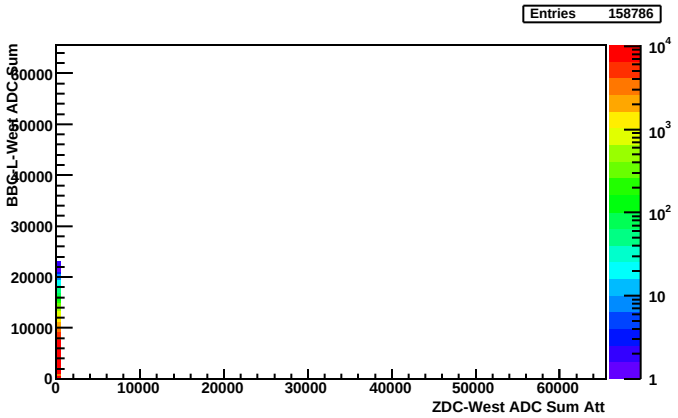

Entries 158786
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 158786
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 158786
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 158786
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 158786
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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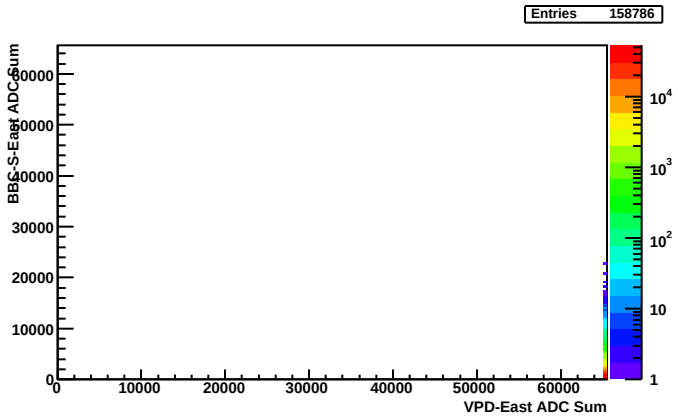
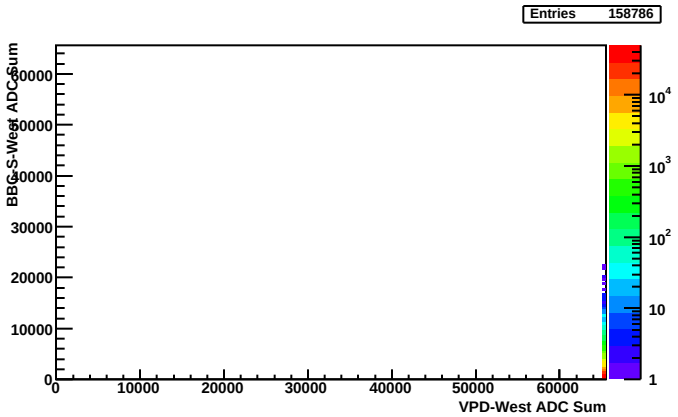
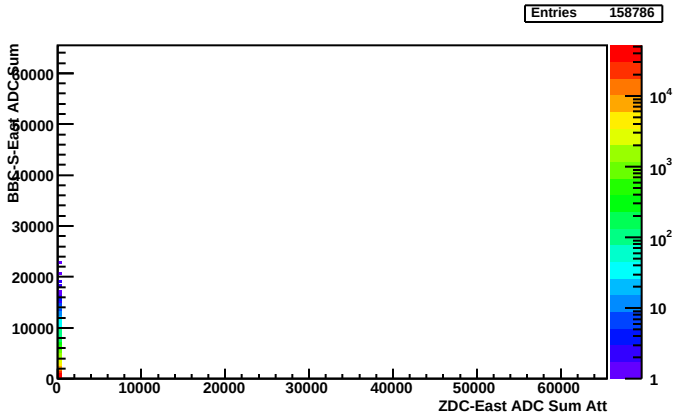
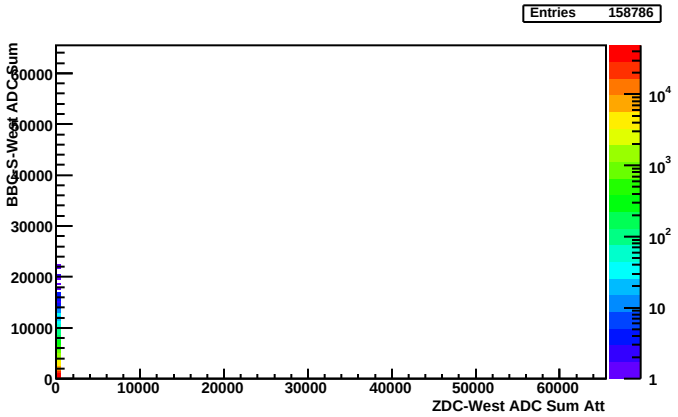
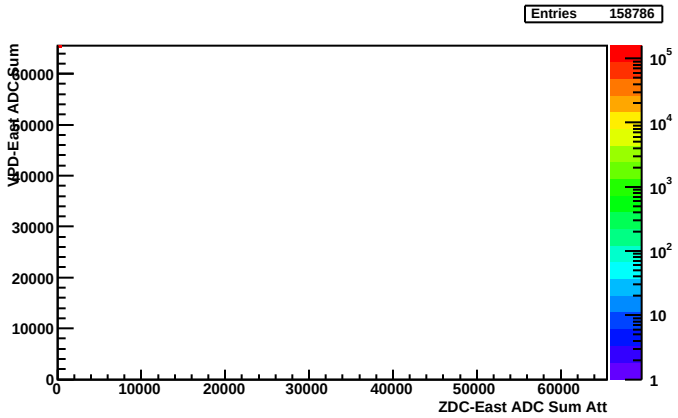
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

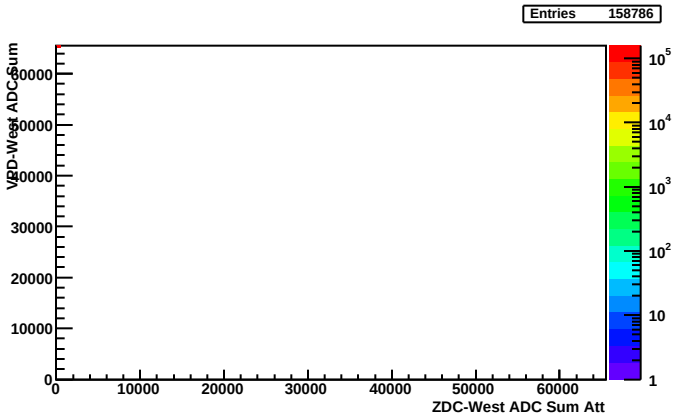

Entries 158786
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 158786
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 158786
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 158786
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 158786
VPD-East ADC Sum
ZDC-East ADC Sum Att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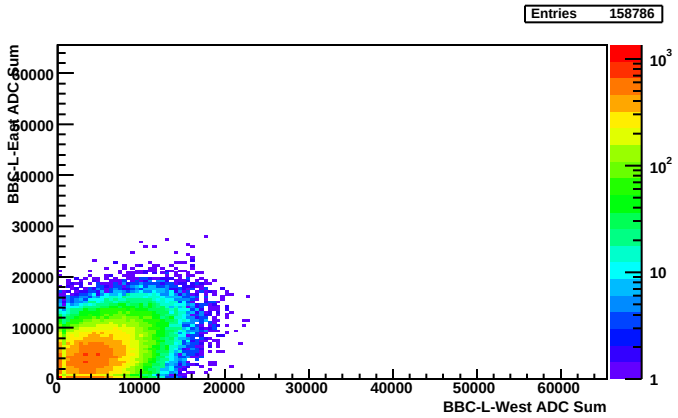
VPD-West ADC Sum
ZDC-West ADC Sum Att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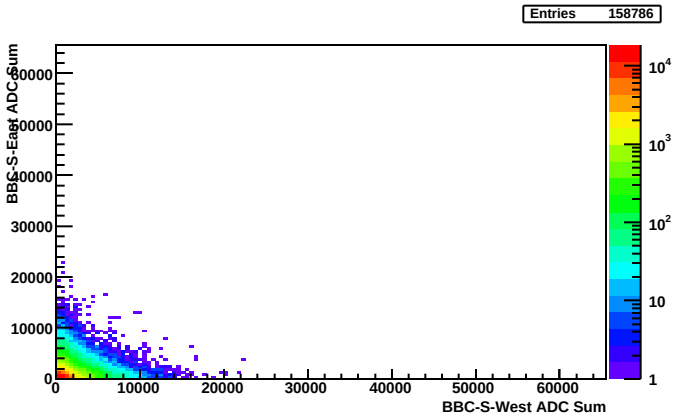
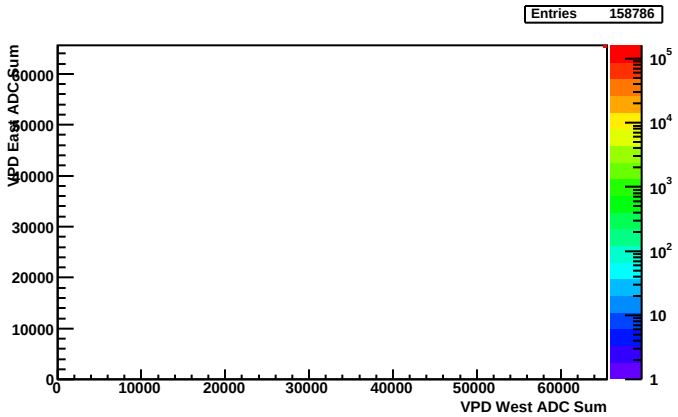
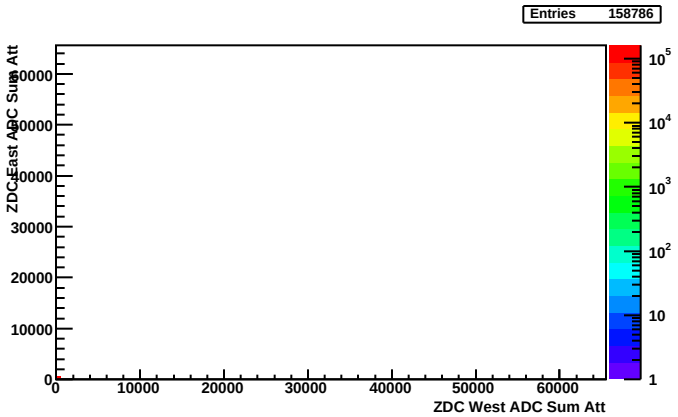
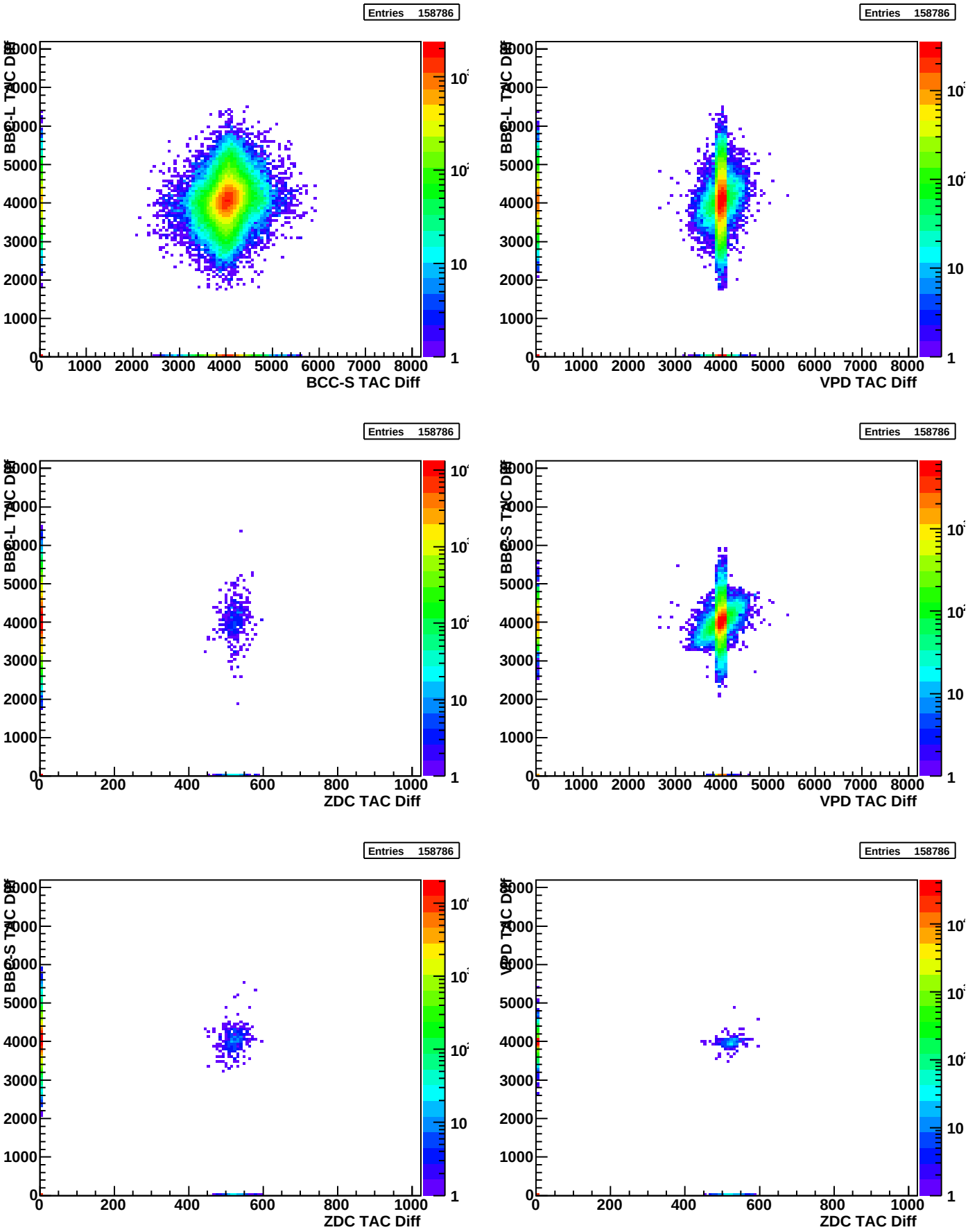
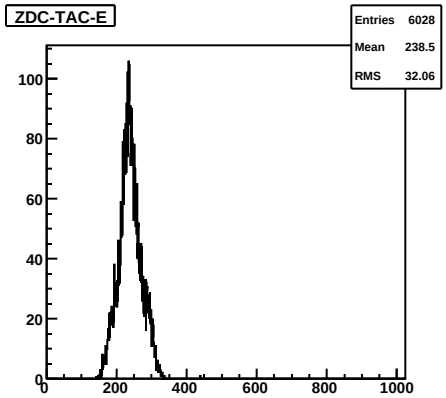
BBC-L-East ADC Sum
BBC-L-West ADC Sum

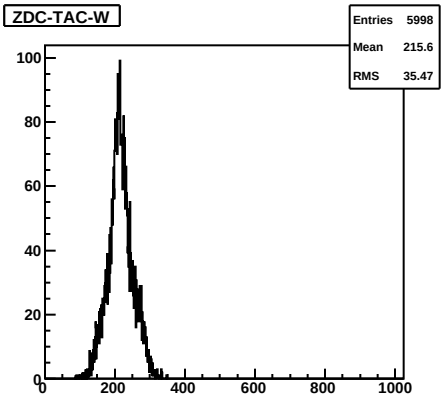

Entries 158786
BBC-S-East ADC Sum
BBC-S-West ADC Sum

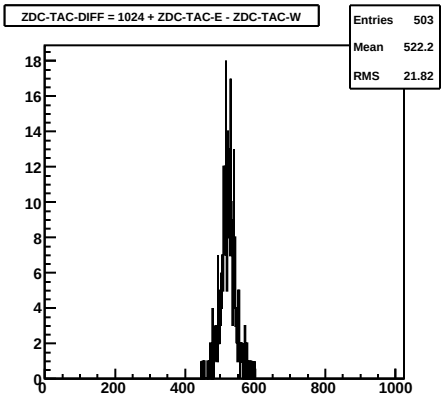

Entries 158786
VPD East ADC Sum
VPD West ADC Sum

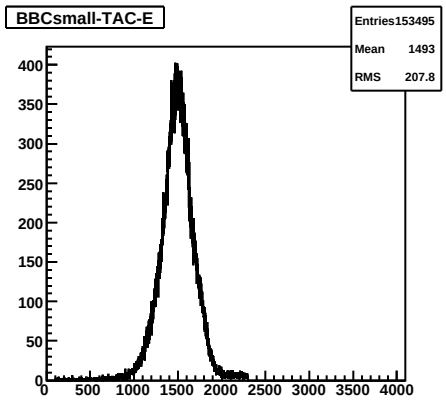

Entries 158786
ZDC East ADC Sum Att
ZDC West ADC Sum Att

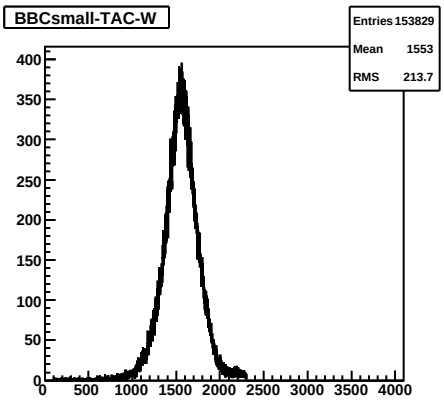

Entries 158786
BBC-L TAC Diff
BCC-S TAC Diff
Entries 158786
BBC-L TAC Diff
VPD TAC Diff
Entries 158786
BBC-L TAC Diff
ZDC TAC Diff
Entries 158786
BBC-S TAC Diff
VPD TAC Diff
Entries 158786
BBC-S TAC Diff
ZDC TAC Diff
Entries 158786
VPD TAC Diff
ZDC TAC Diff

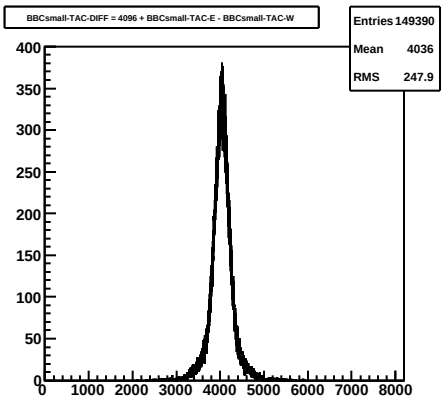

ZDC-TAC-E
Entries 6028
Mean 238.5
RMS 32.06

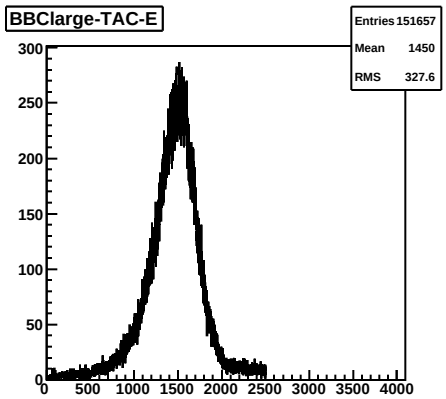

ZDC-TAC-W
Entries 5998
Mean 215.6
RMS 35.47

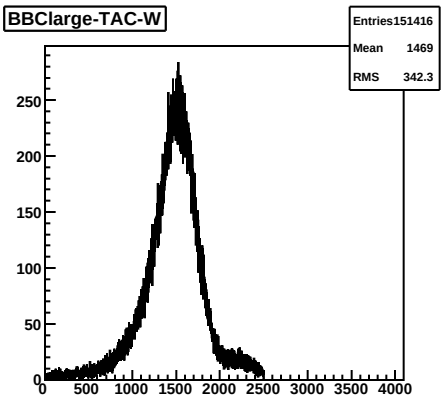

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 503
Mean 522.2
RMS 21.82

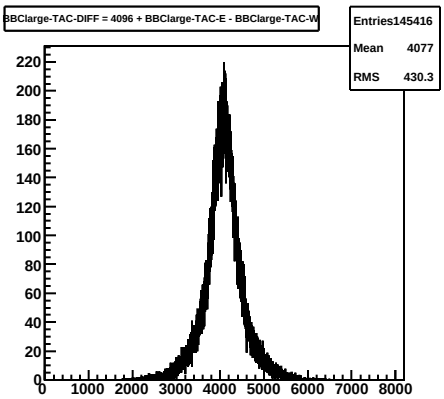

BBCsmall-TAC-E
Entries 153495
Mean 1493
RMS 207.8

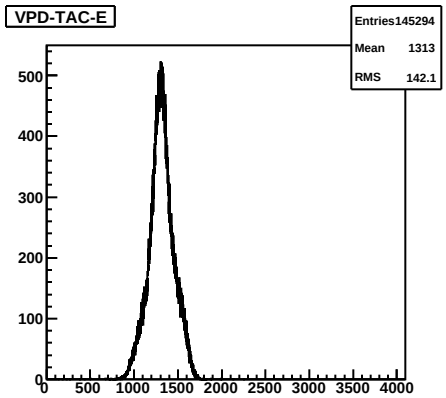

BBCsmall-TAC-W
Entries 153829
Mean 1553
RMS 213.7

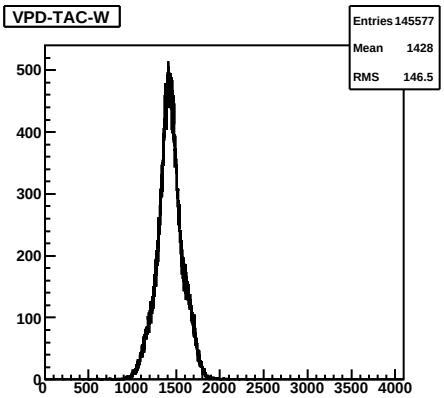

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 149390
Mean 4036
RMS 247.9

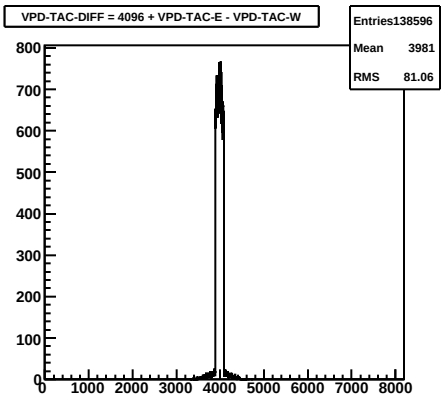

BBClarge-TAC-E
Entries 151657
Mean 1450
RMS 327.6

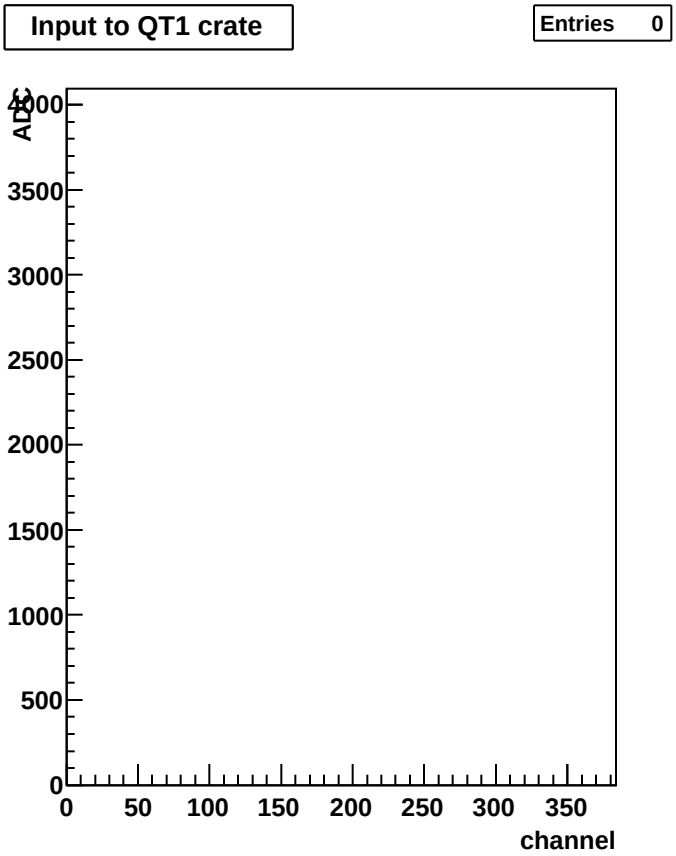

BBClarge-TAC-W
Entries 151416
Mean 1469
RMS 342.3

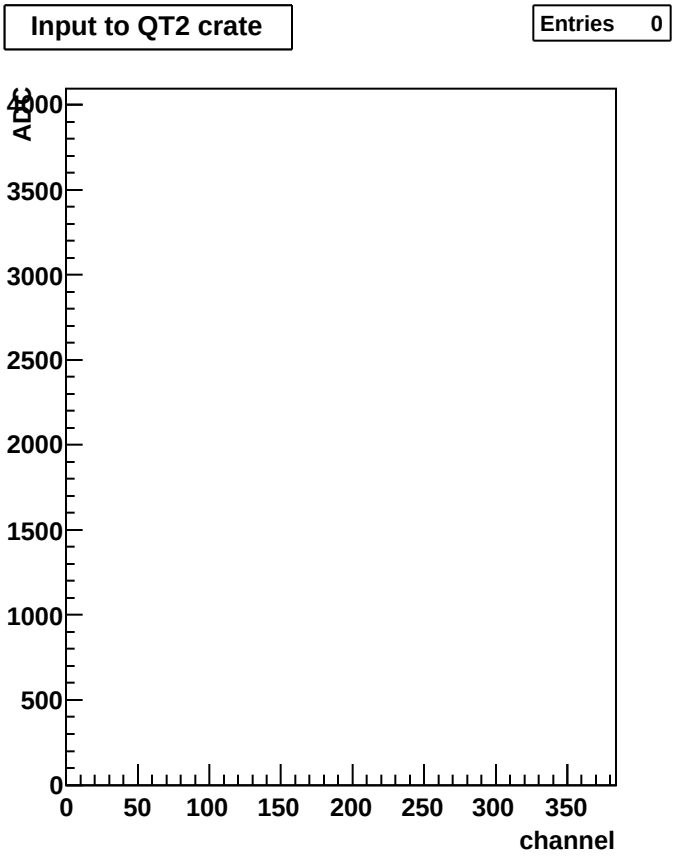

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 145416
Mean 4077
RMS 430.3

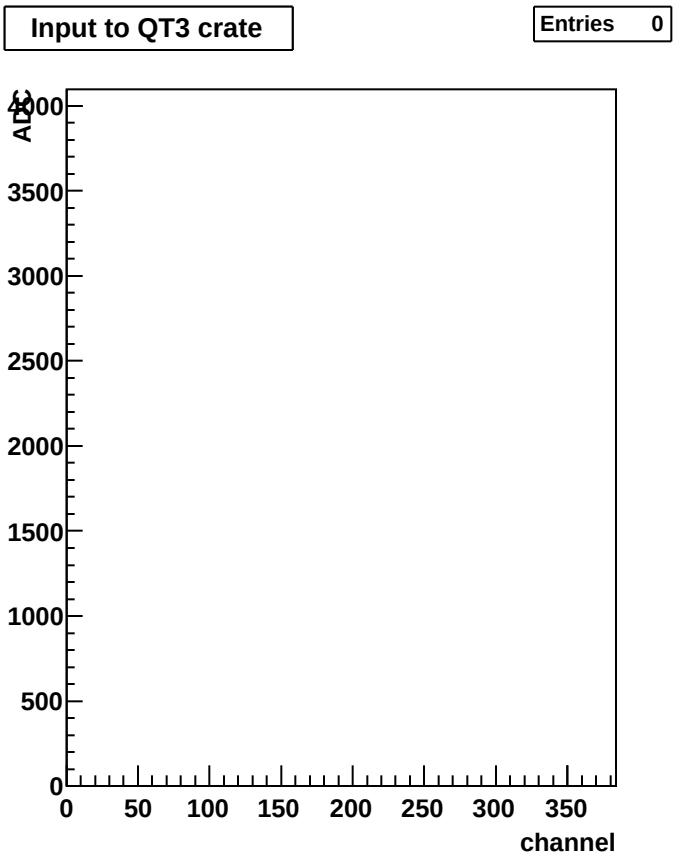

VPD-TAC-E
Entries 145294
Mean 1313
RMS 142.1

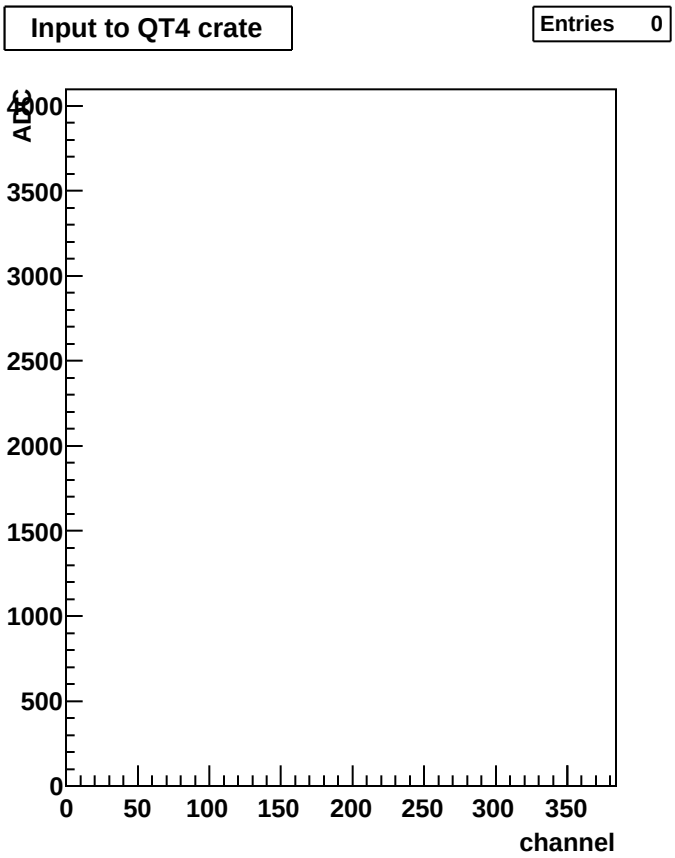

VPD-TAC-W
Entries 145577
Mean 1428
RMS 146.5

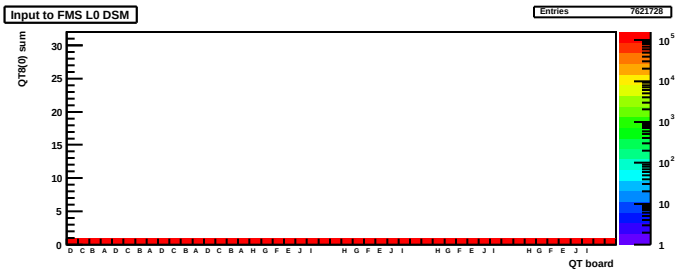

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 138596
Mean 3981
RMS 81.06

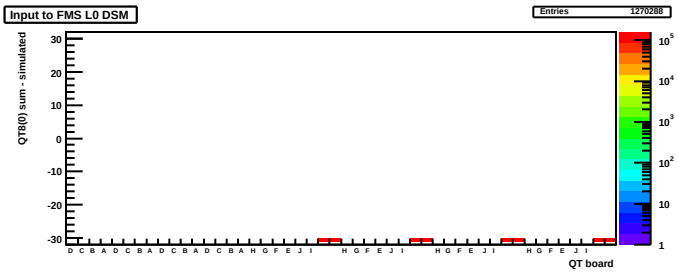

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

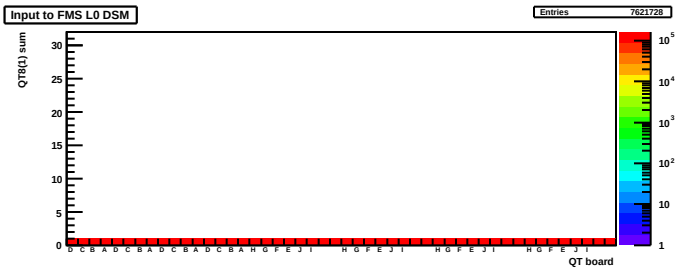

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

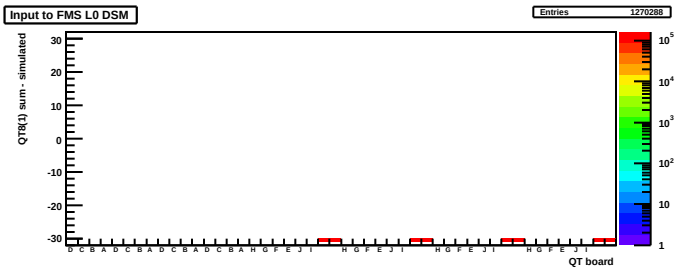

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

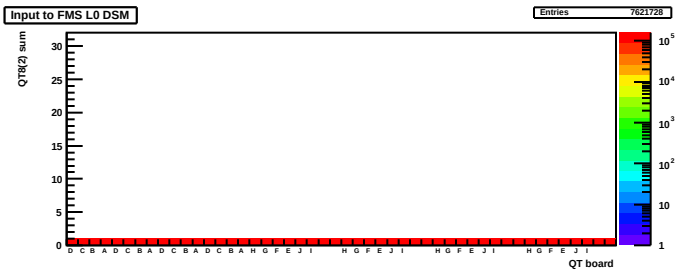

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

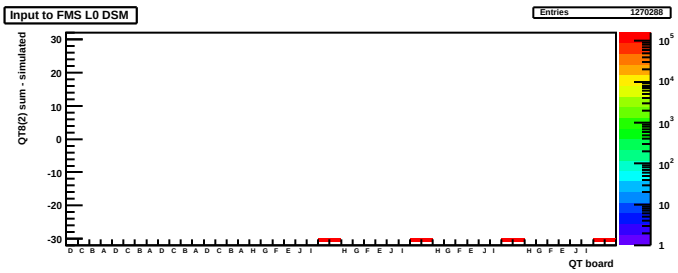

Input to FMS L0 DSM
Entries 7621728
QT8(0) sum
QT board

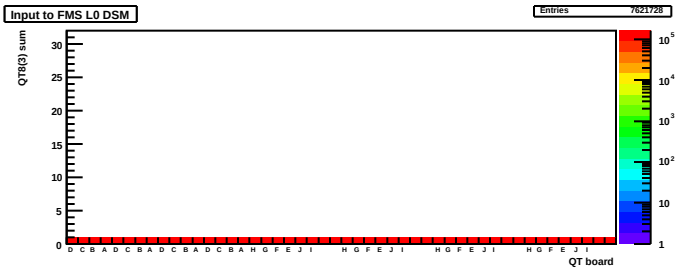

Input to FMS L0 DSM
Entries 1270288
QT8(0) sum - simulated
QT board

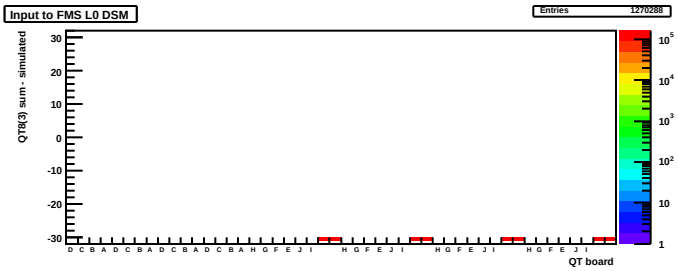

Input to FMS L0 DSM
Entries 7621728
QT8(1) sum
QT board

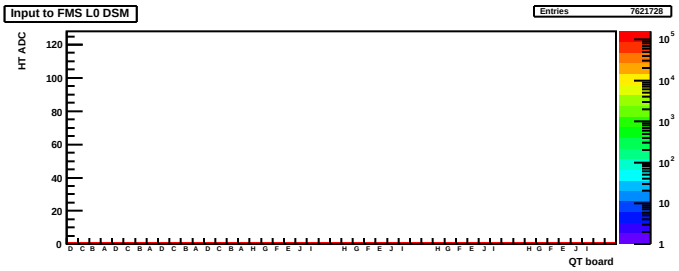

Input to FMS L0 DSM
Entries 1270288
QT8(1) sum - simulated
QT board

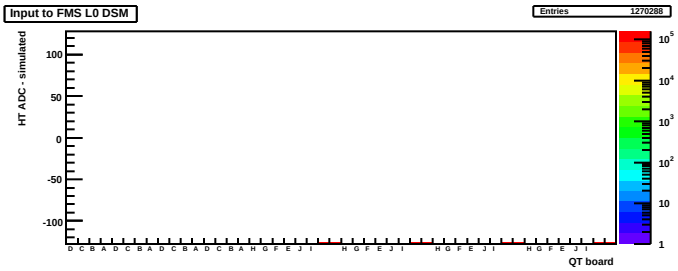

Input to FMS L0 DSM
Entries 7621728
QT8(2) sum
QT board

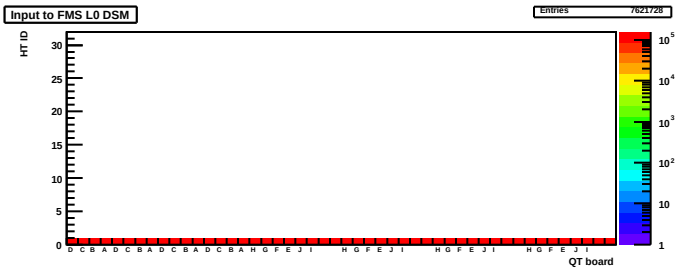

Input to FMS L0 DSM
Entries 1270288
QT8(2) sum - simulated
QT board

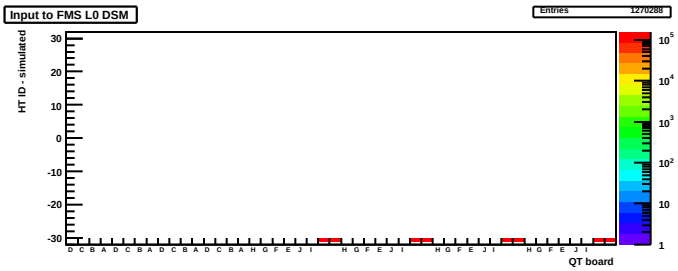

Input to FMS L0 DSM
Entries 7621728
QT8(3) sum
QT board

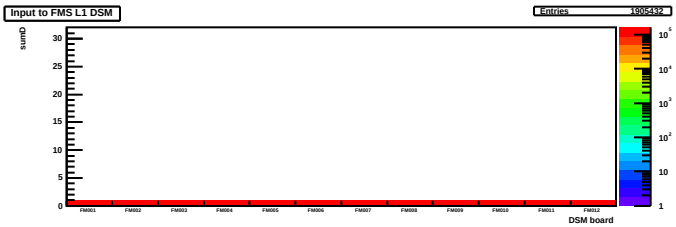

Input to FMS L0 DSM
Entries 1270288
QT8(3) sum - simulated
QT board

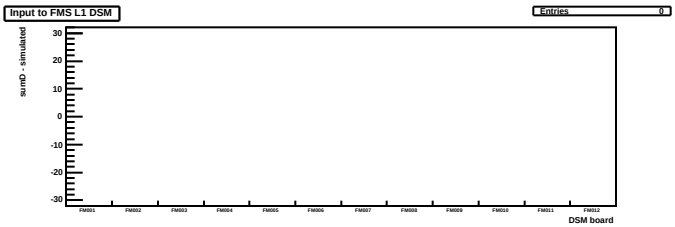

Input to FMS L0 DSM
Entries 7621728
HT ADC
QT board

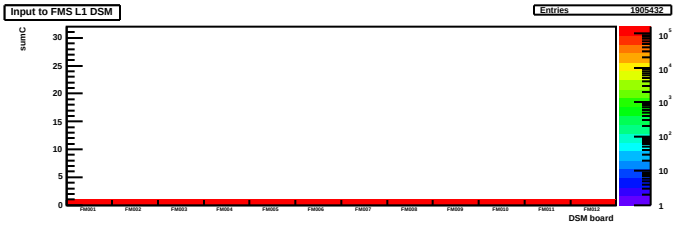

Input to FMS L0 DSM
Entries 1270288
HT ADC - simulated
QT board

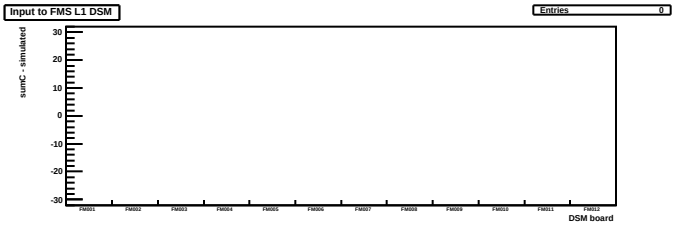

Input to FMS L0 DSM
Entries 7621728
HT ID
QT board

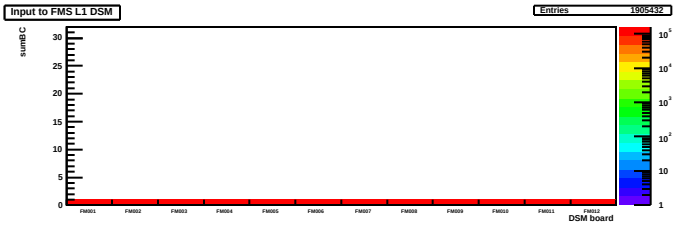

Input to FMS L0 DSM
Entries 1270288
HT ID - simulated
QT board

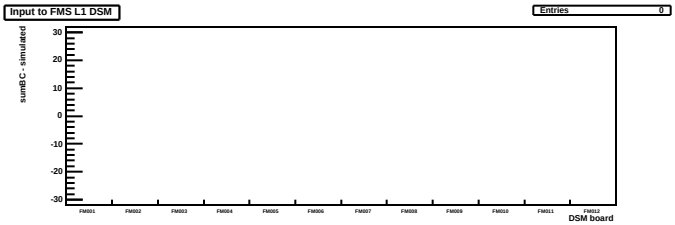

Input to FMS L1 DSM
Entries 1905432
sumD
DSM board

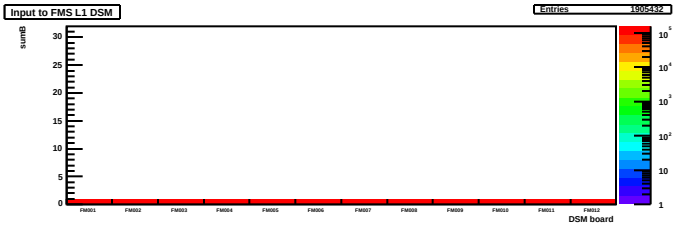

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

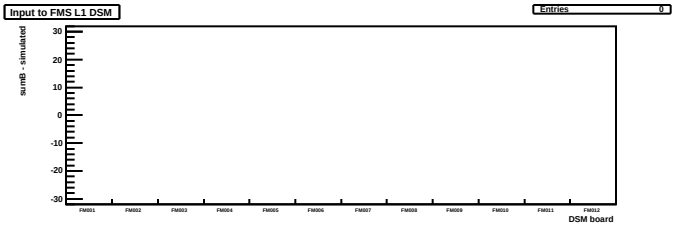

Input to FMS L1 DSM
Entries 1905432
sumC
DSM board

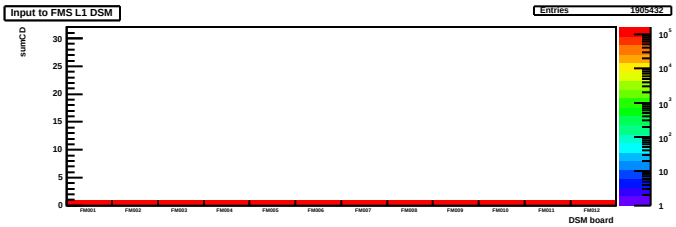

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

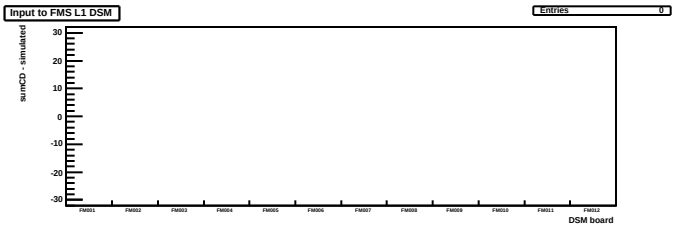

Input to FMS L1 DSM
Entries 1905432
sumBC
DSM board

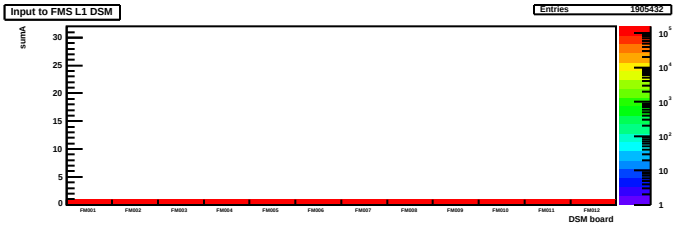

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

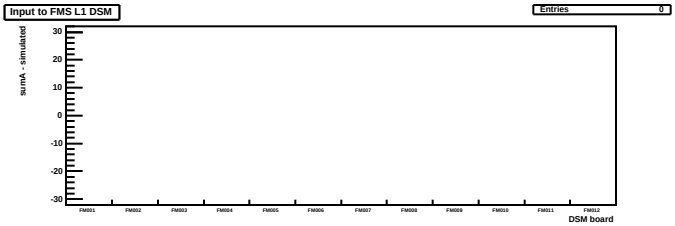

Input to FMS L1 DSM
Entries 1905432
sumB
DSM board

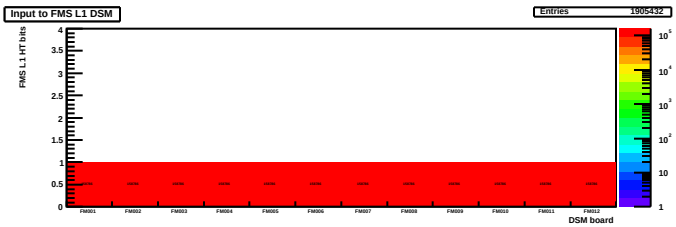

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

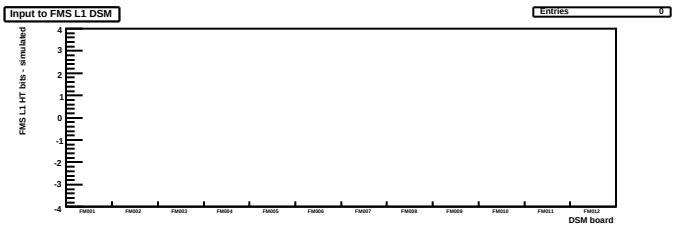

Input to FMS L1 DSM
Entries 1905432
sumCD
DSM board

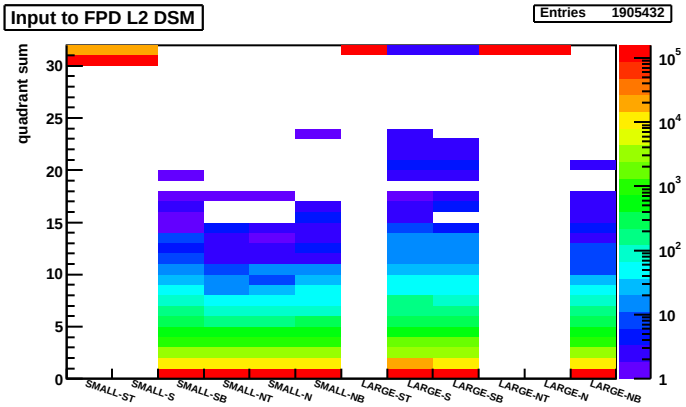

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

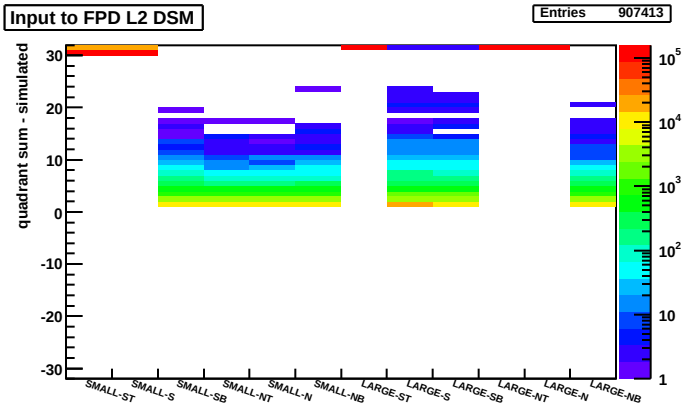

Input to FMS L1 DSM
Entries 1905432
sumA
DSM board

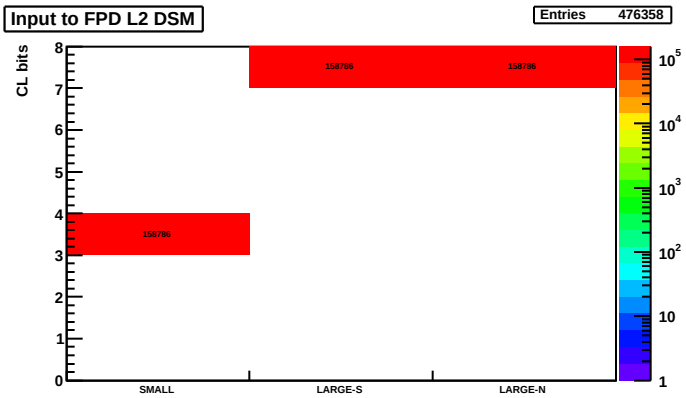

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

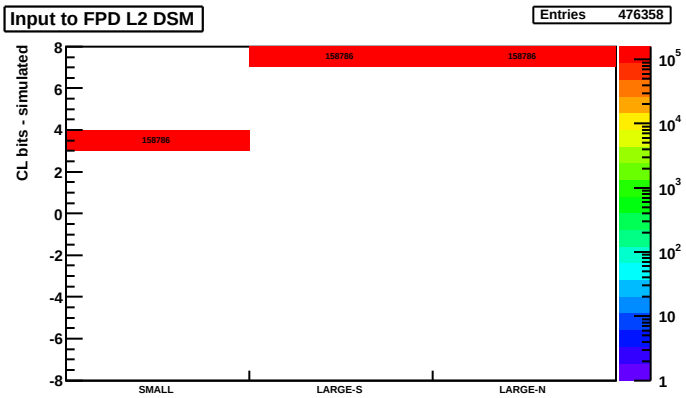

Input to FMS L1 DSM
Entries 1905432
FMS L1 HT bits
DSM board

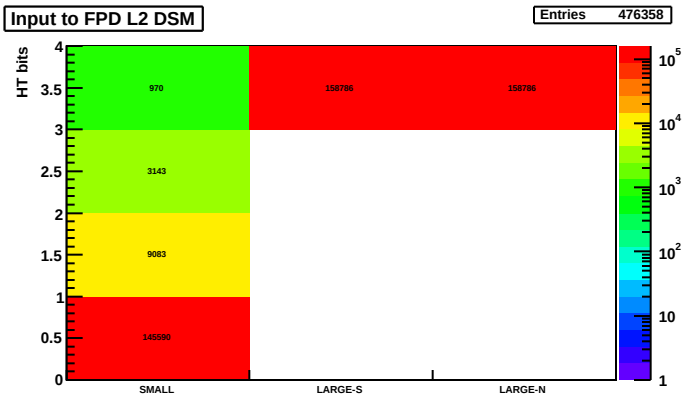

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

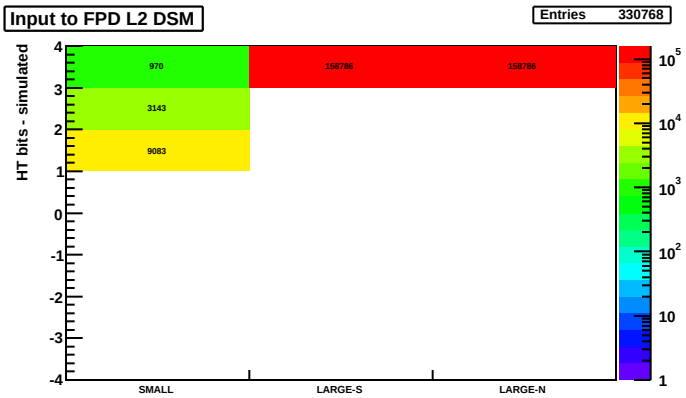

Input to FPD L2 DSM
Entries 1905432
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

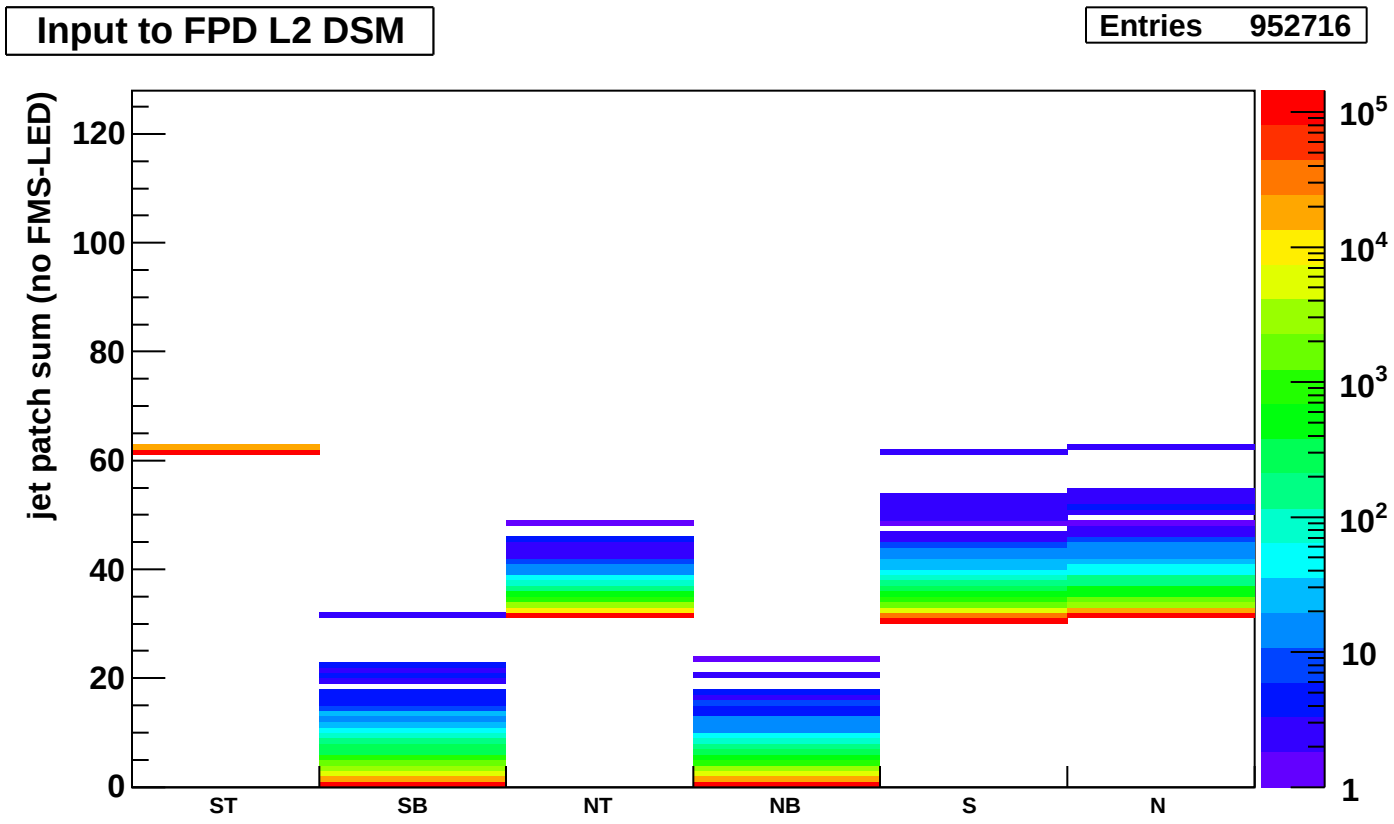

Input to FPD L2 DSM
Entries 907413
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

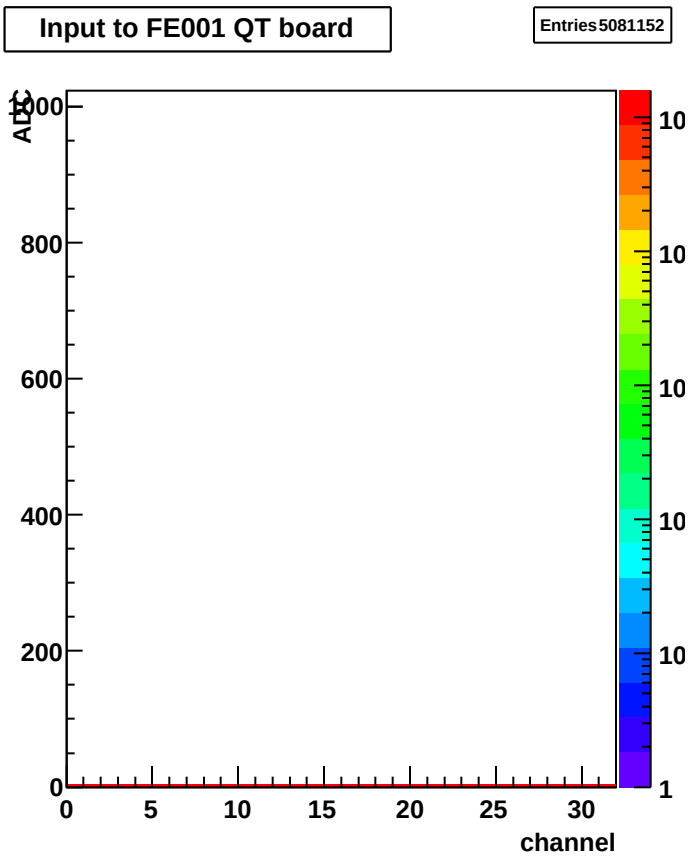

Input to FPD L2 DSM
Entries 476358
CL bits
158786
158786
158786
SMALL
LARGE-S
LARGE-N

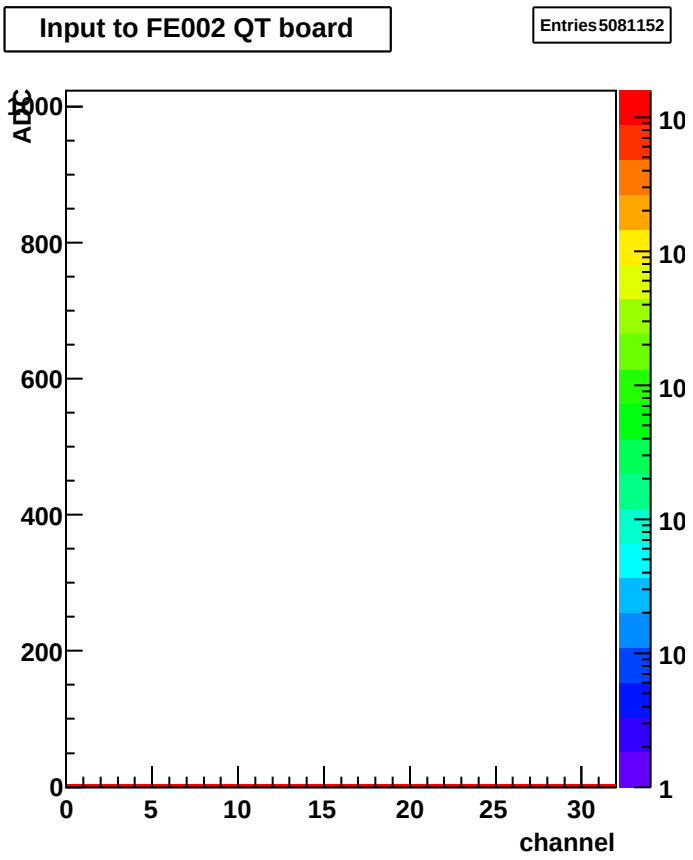

Input to FPD L2 DSM
Entries 476358
CL bits - simulated
158786
158786
158786
SMALL
LARGE-S
LARGE-N

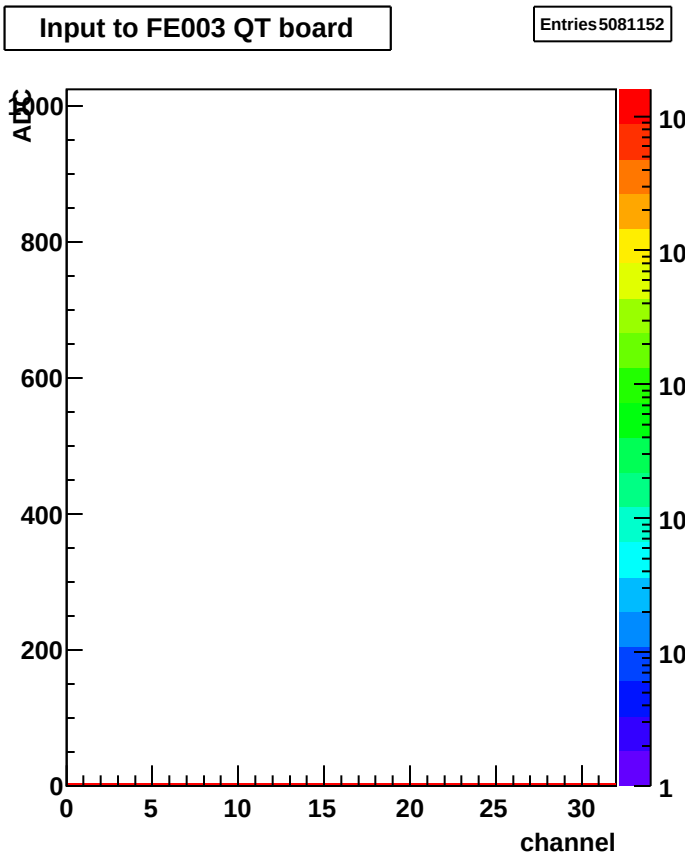

Input to FPD L2 DSM
Entries 476358
HT bits
970
3143
9083
145590
158786
158786
SMALL
LARGE-S
LARGE-N

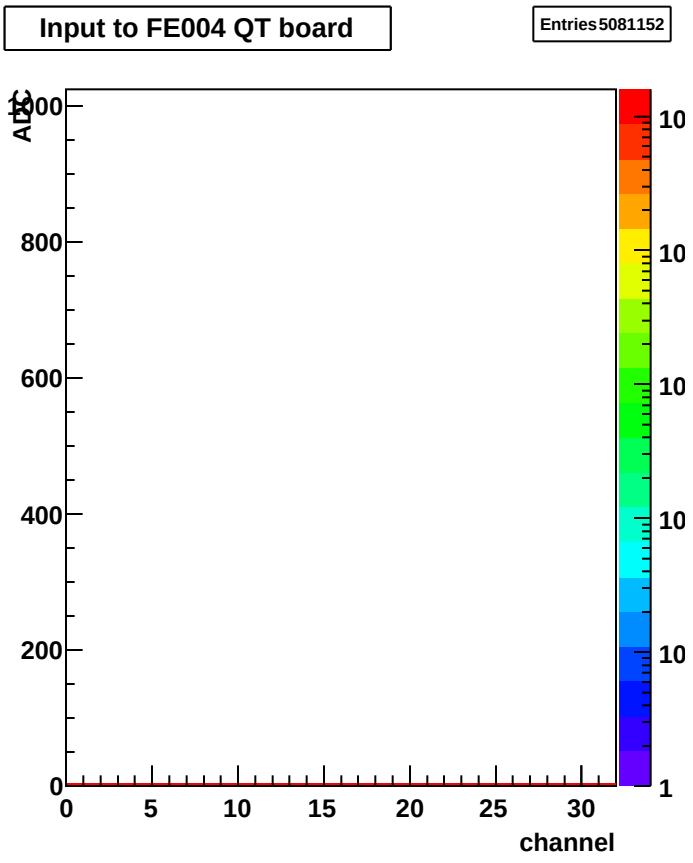

Input to FPD L2 DSM
Entries 330768
HT bits - simulated
970
3143
9083
158786
158786
SMALL
LARGE-S
LARGE-N

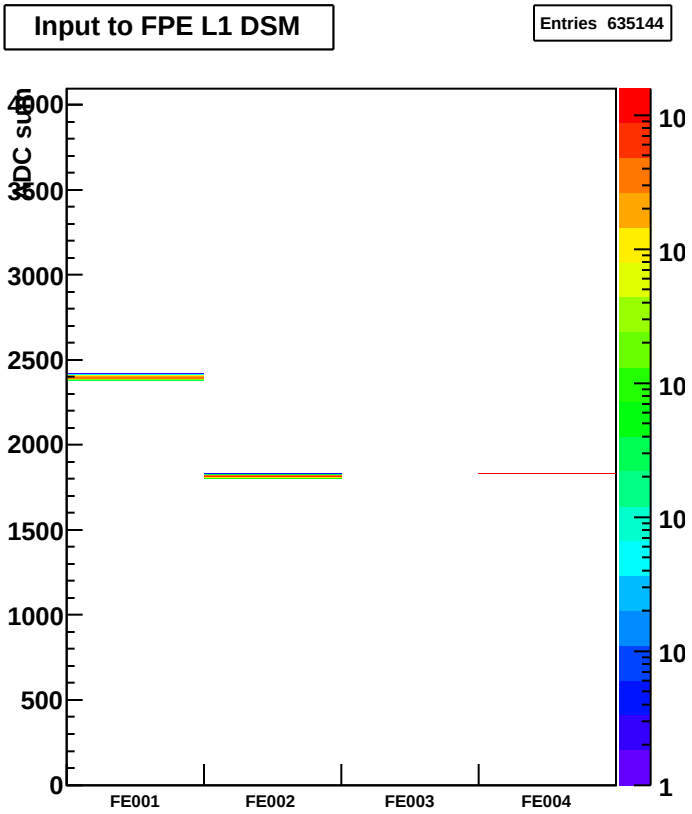

Input to FPD L2 DSM
Entries 952716
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

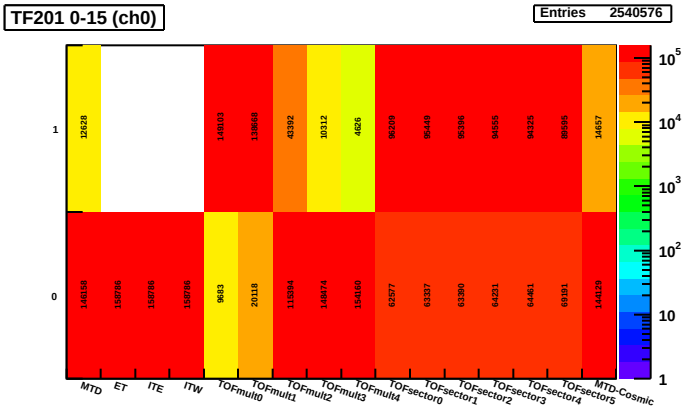

Input to FE001 QT board
Entries 5081152
ADC
channel

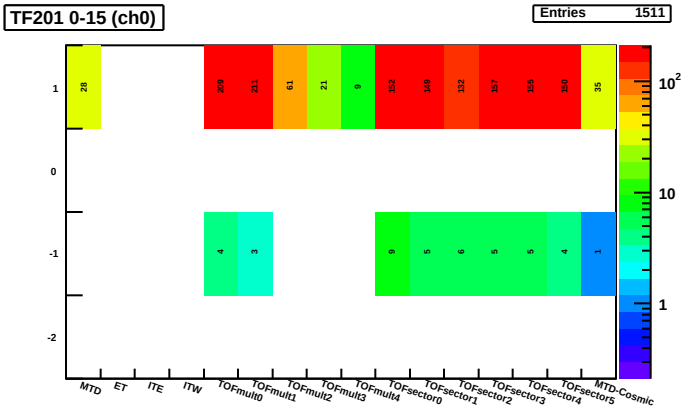

Input to FE002 QT board
Entries 5081152
ADC
channel

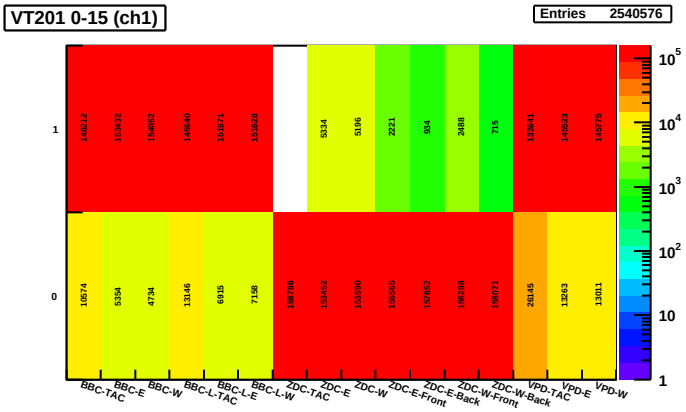

Input to FE003 QT board
Entries 5081152
ADC
channel

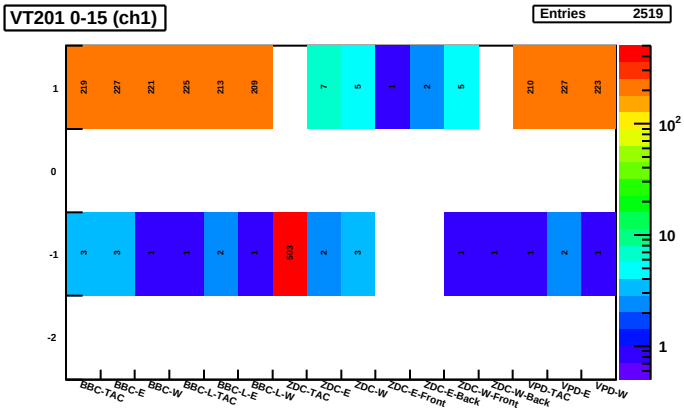

Input to FE004 QT board
Entries 5081152
ADC
channel

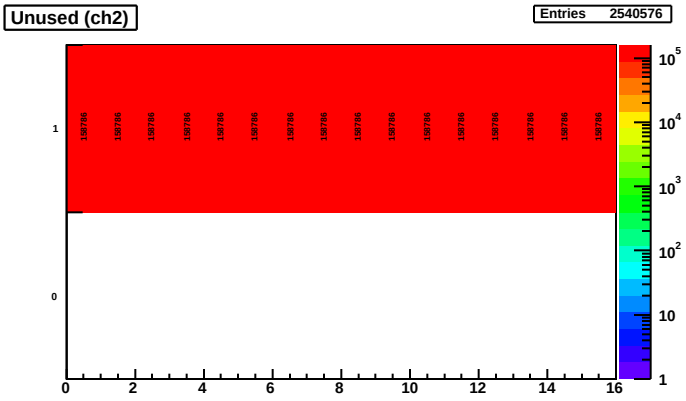

Input to FPE L1 DSM
Entries 635144
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

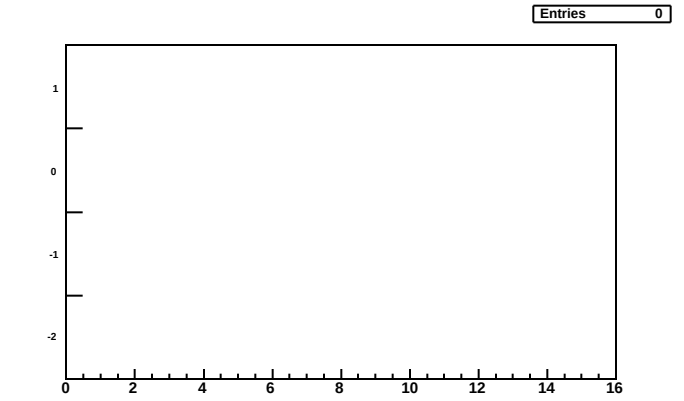

TF201 0-15 (ch0)
Entries 2540576
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 1511
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2540576
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2519
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 2540576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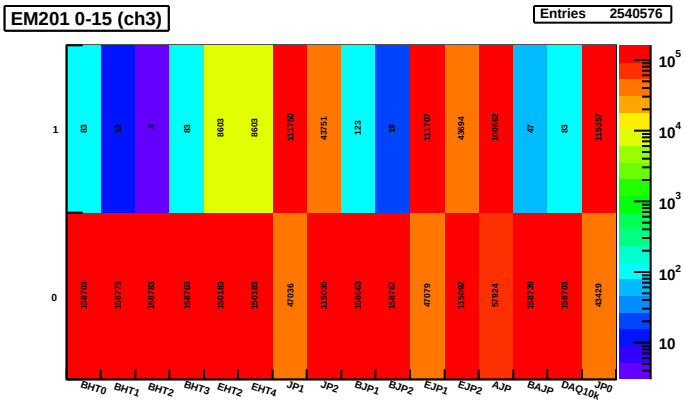
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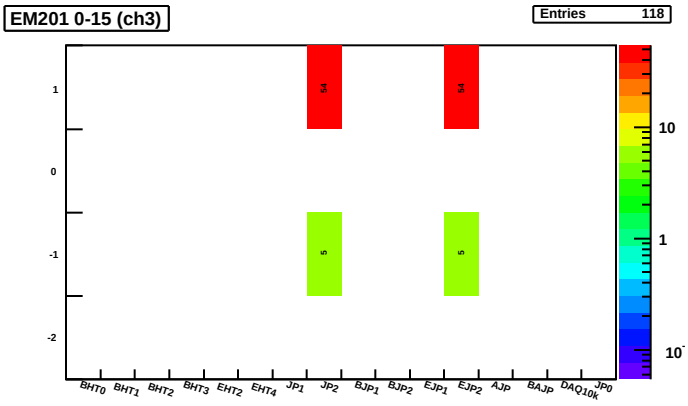
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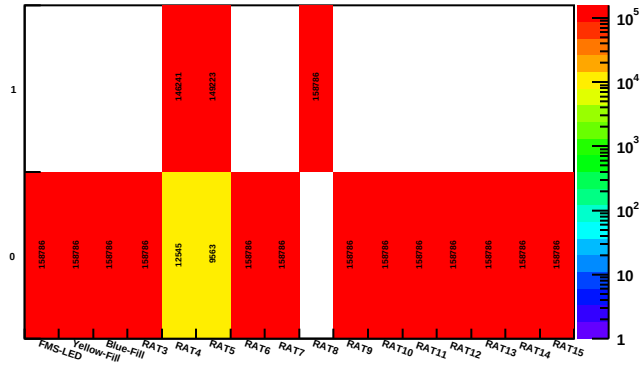
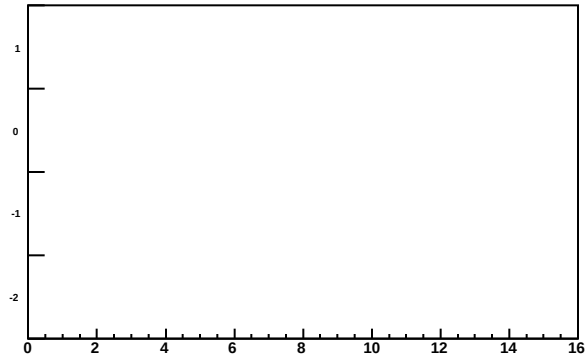
RAT board (ch4)





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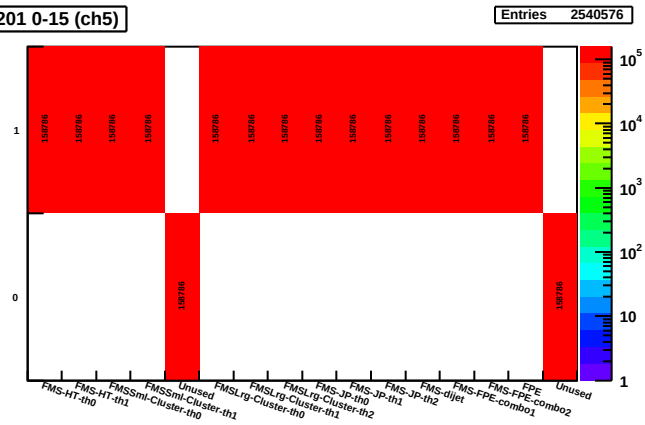

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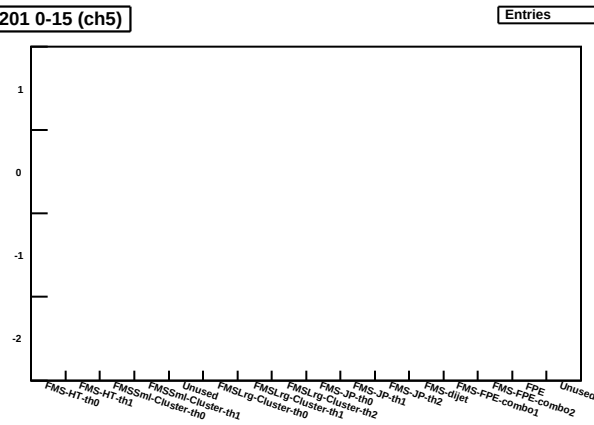

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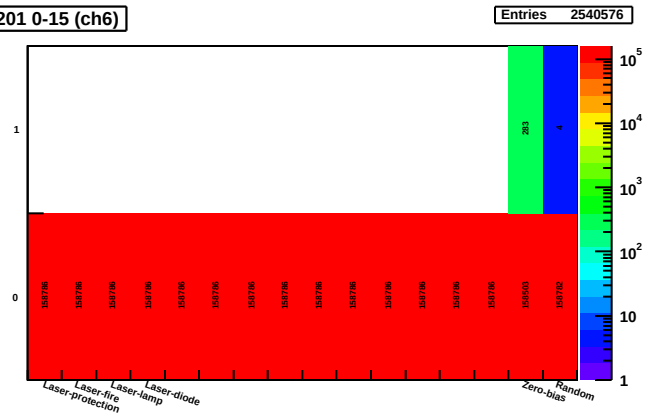

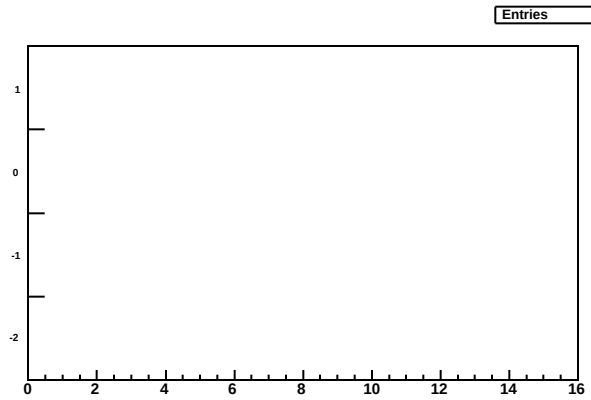
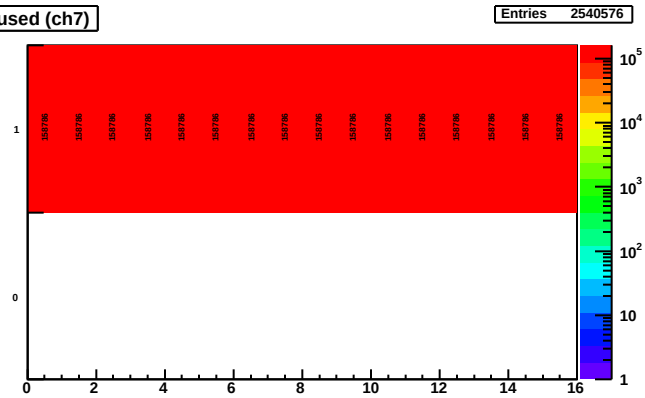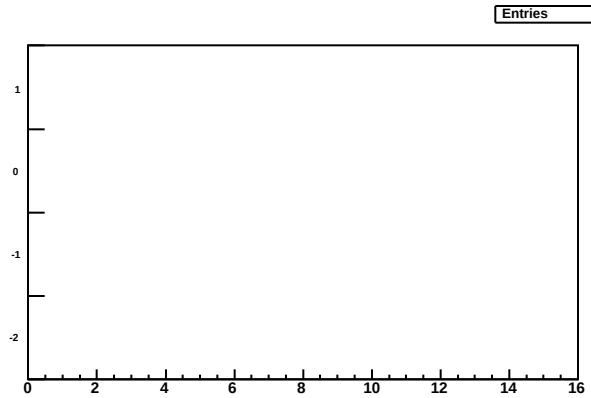
Unused (ch7)