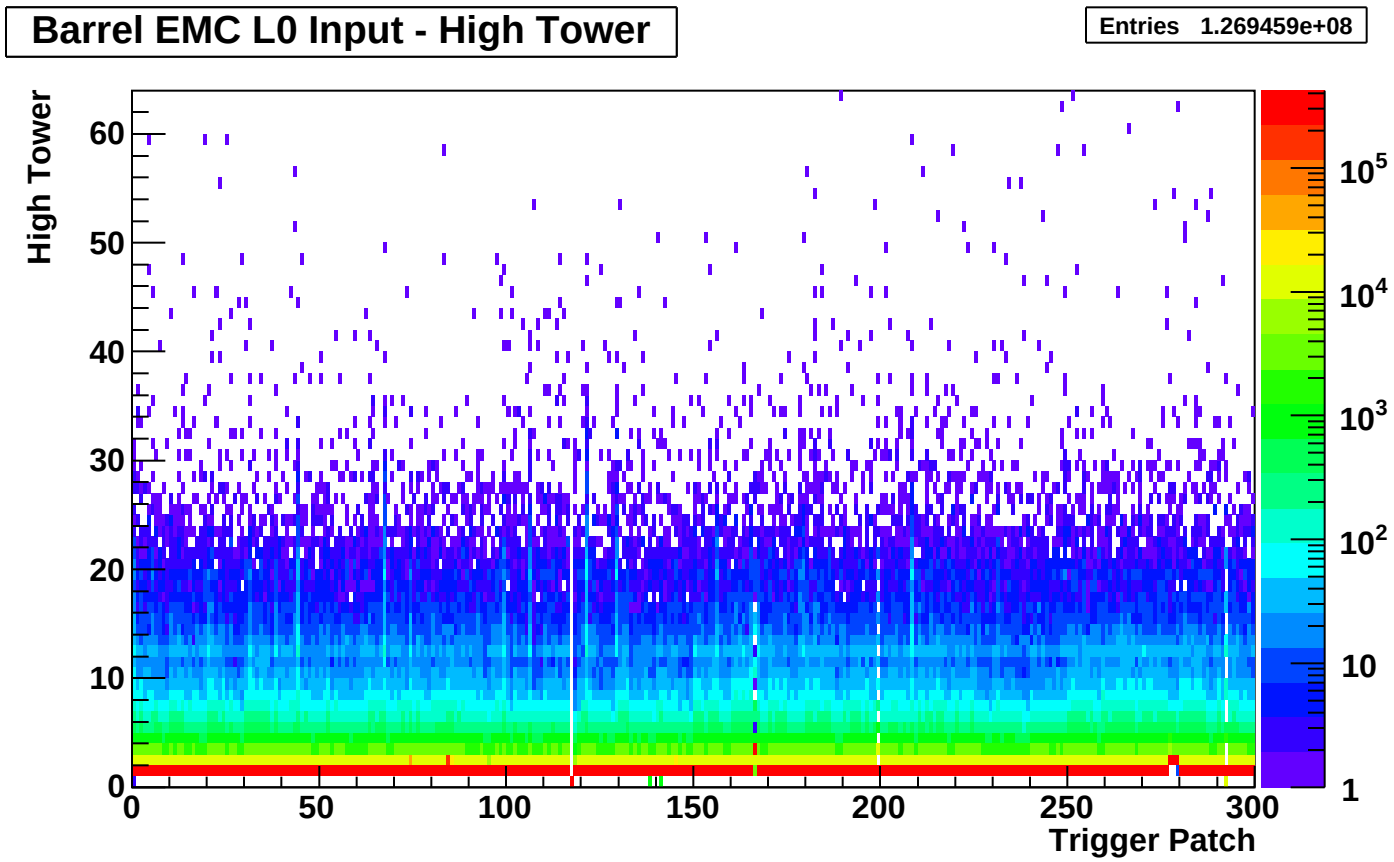
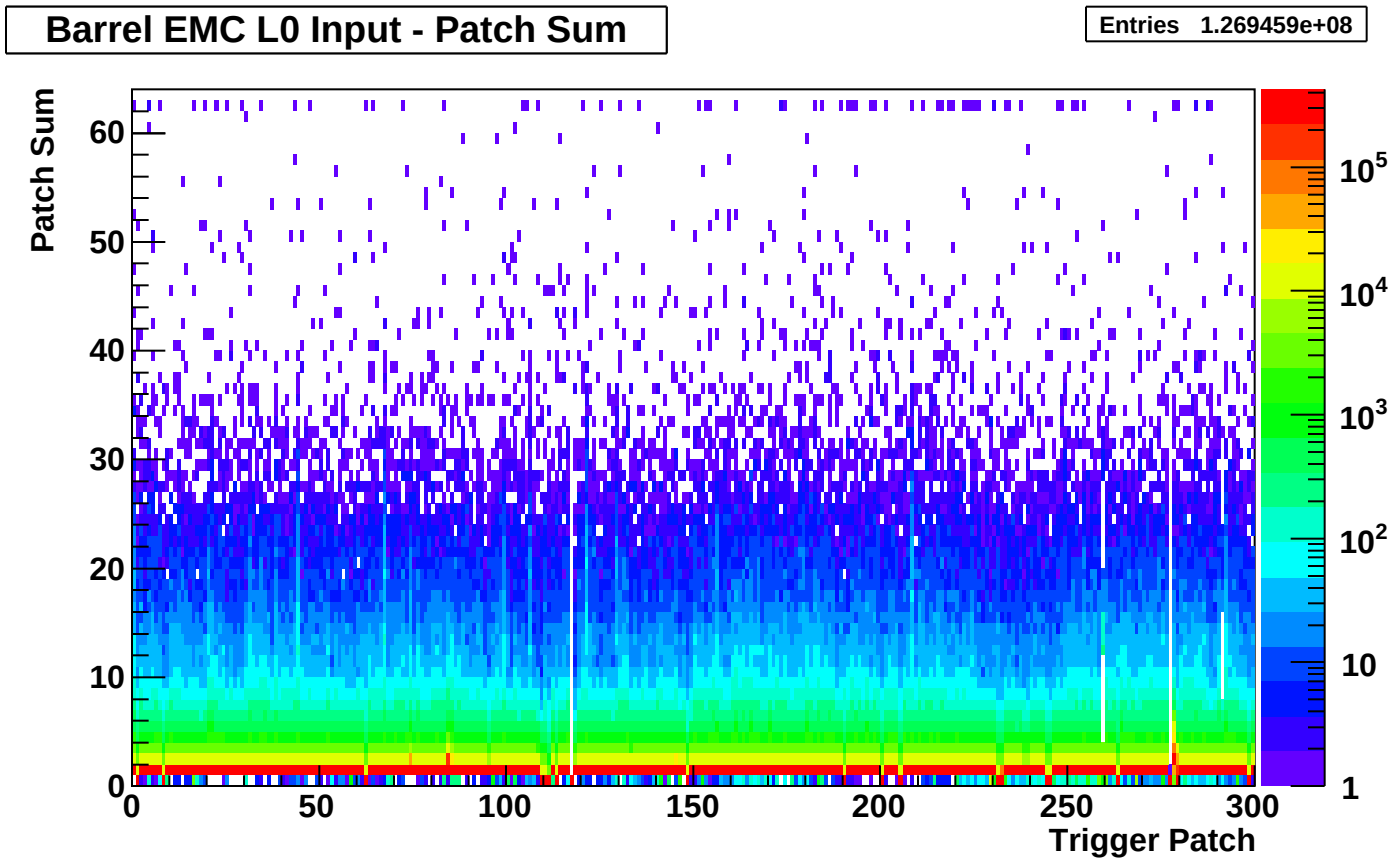
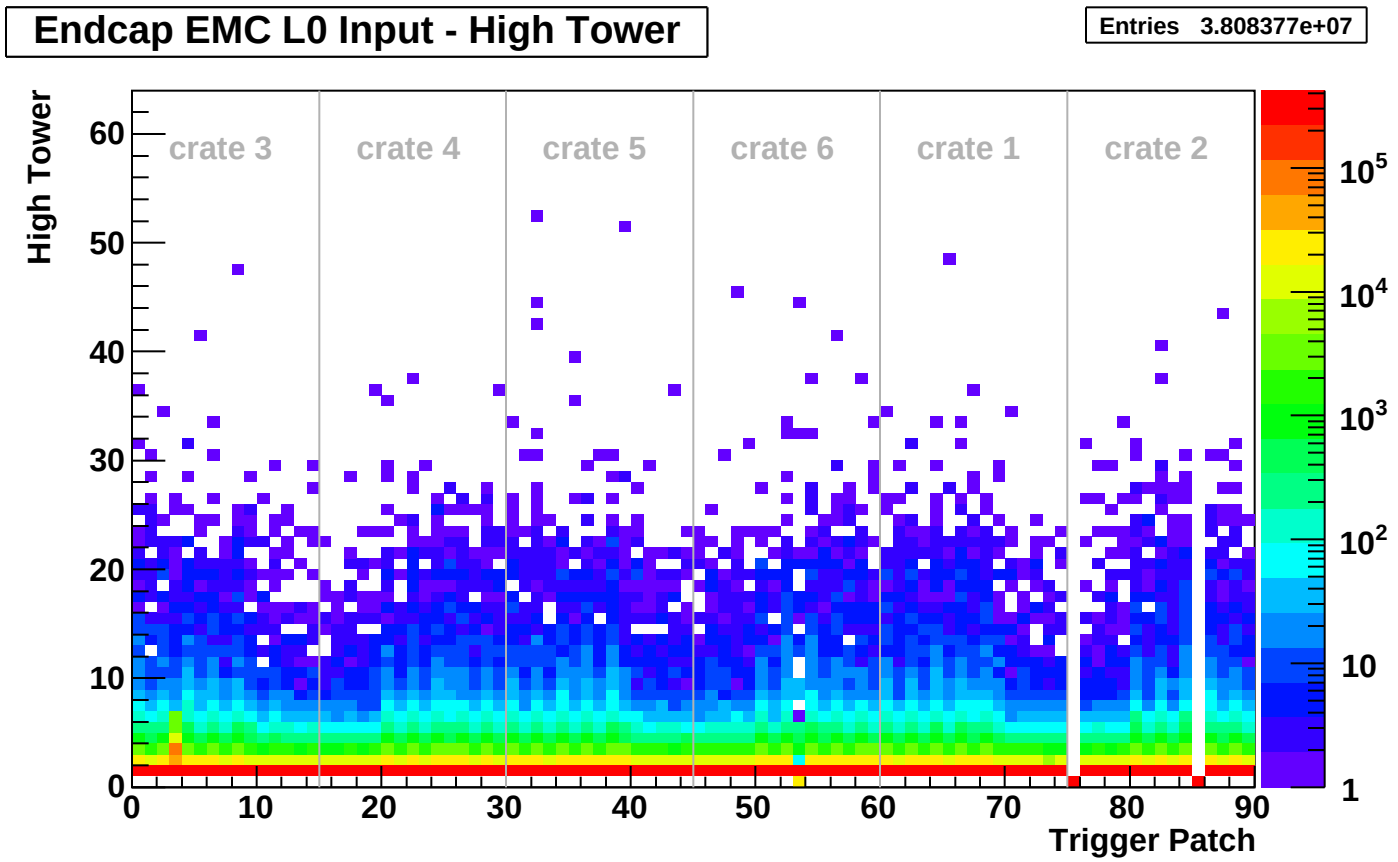
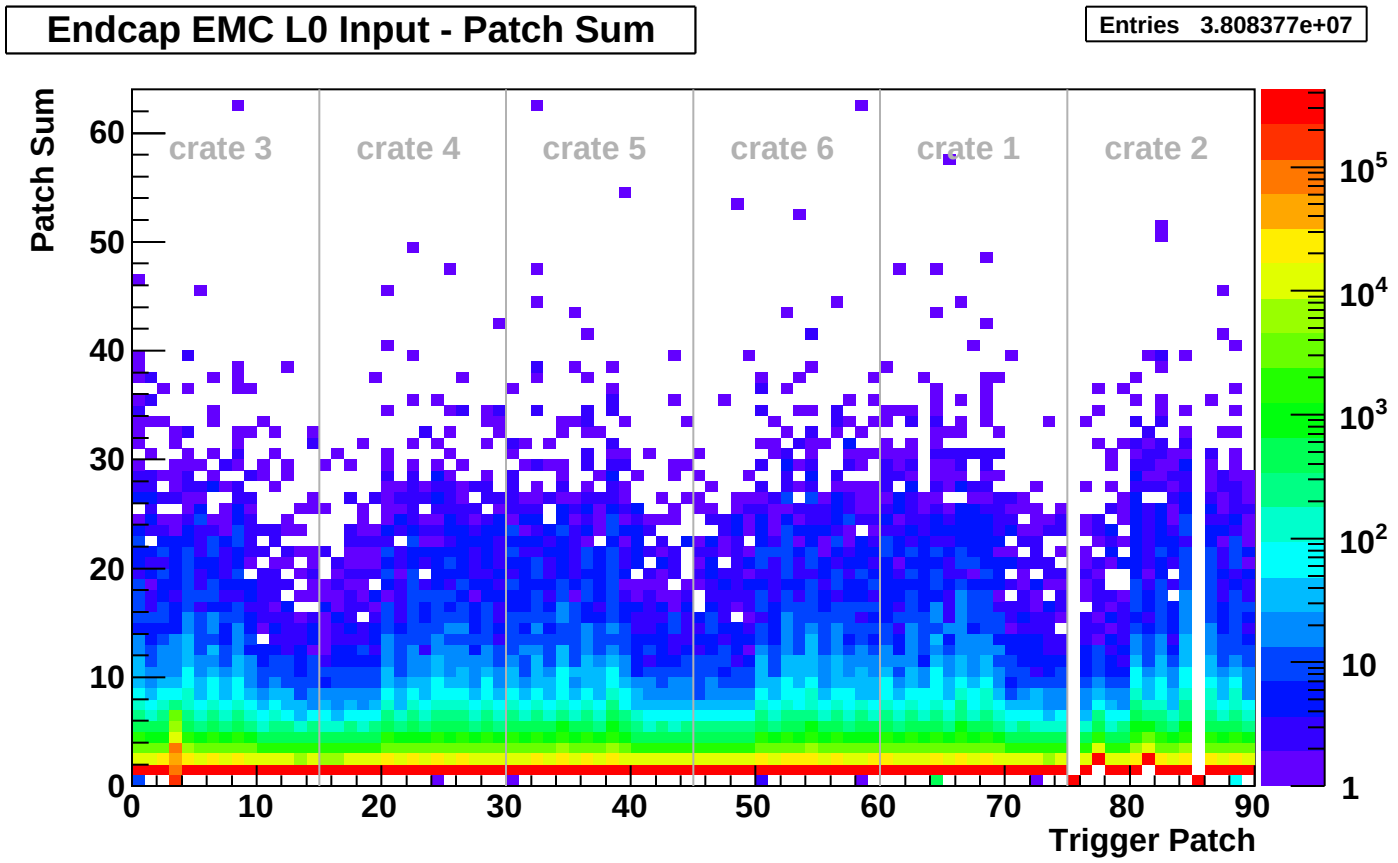
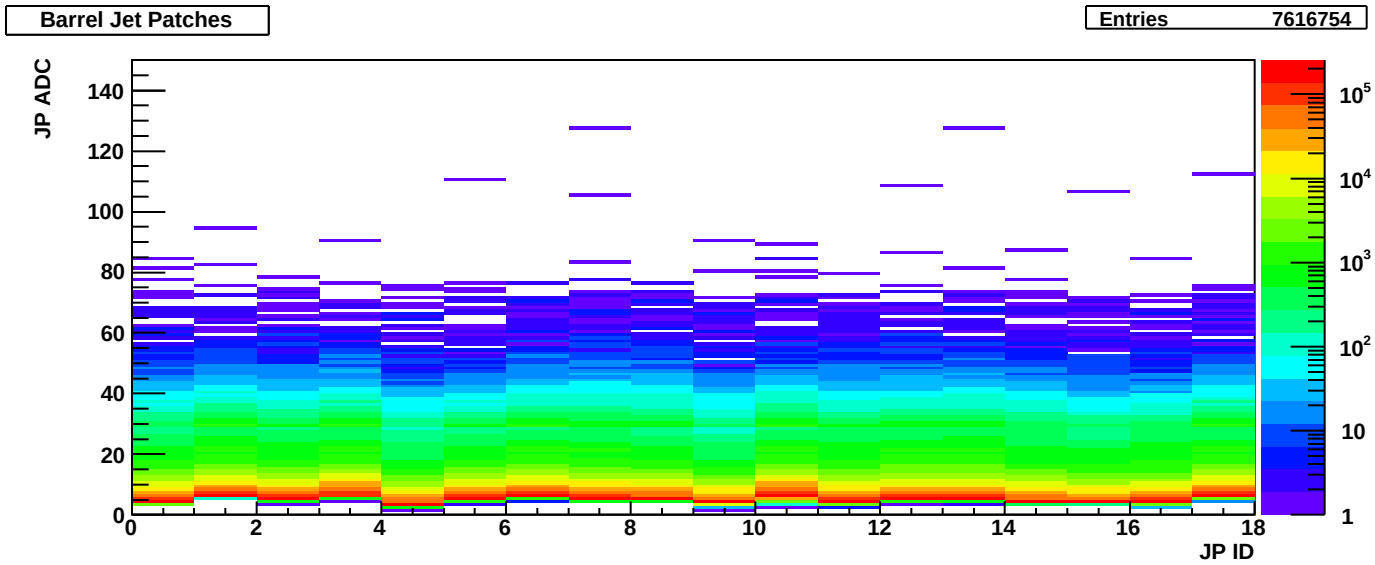
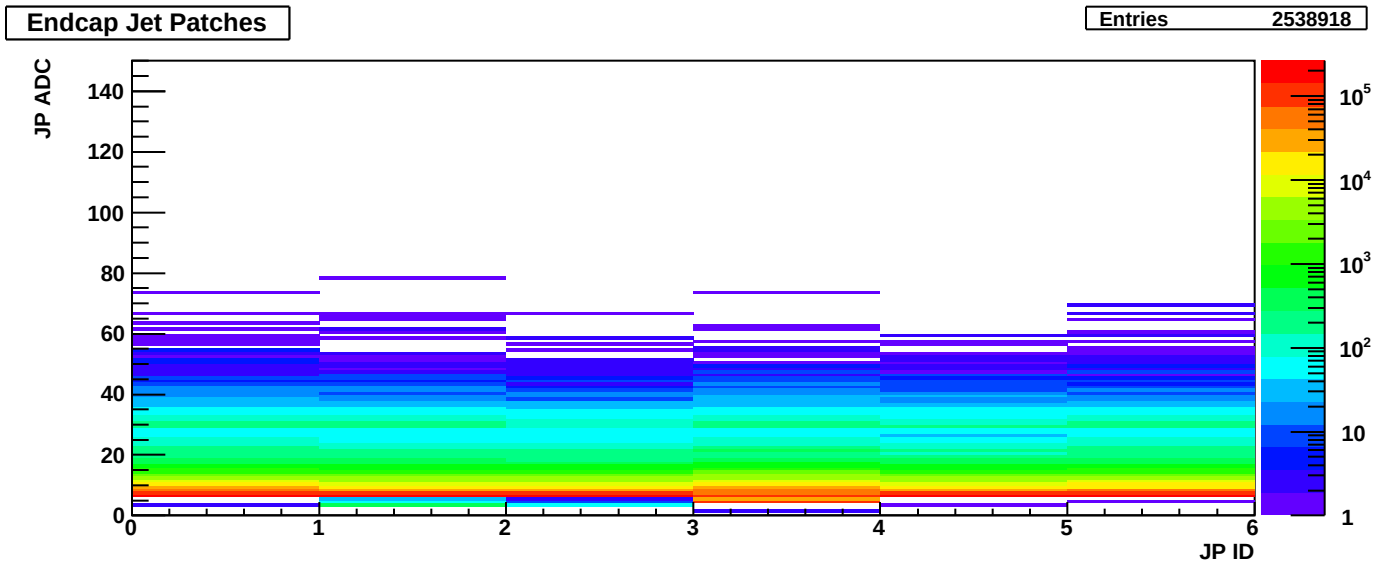

Barrel EMC L0 Input - High Tower
Entries 1.269459e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

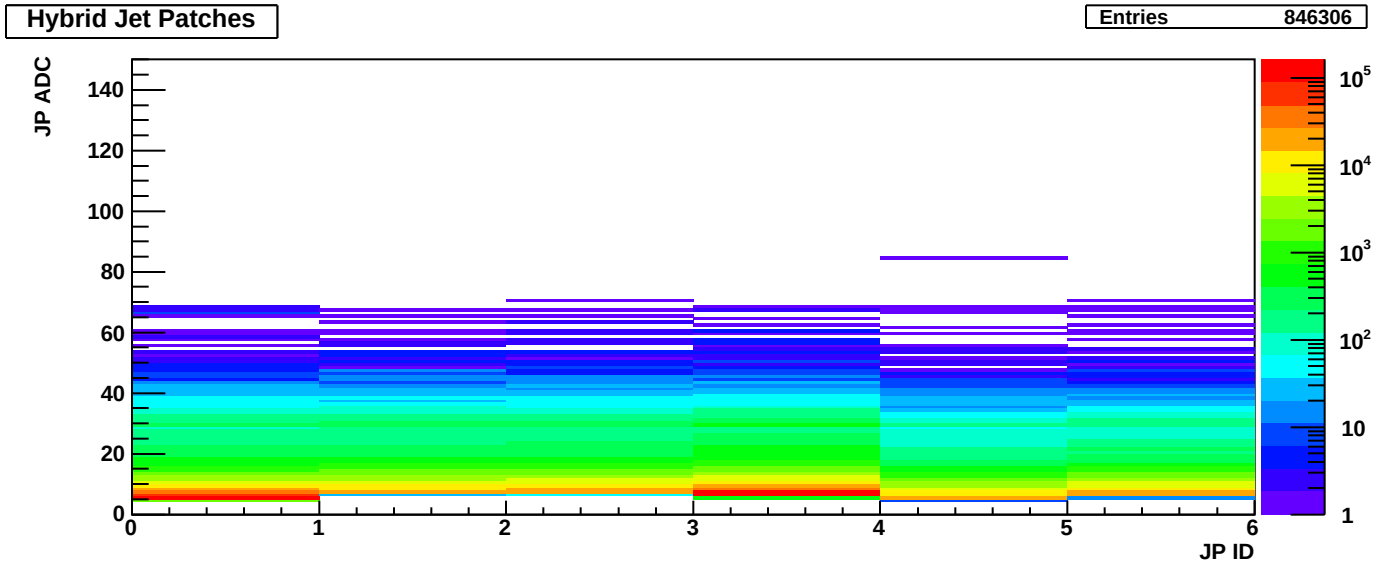

Barrel EMC L0 Input - Patch Sum
Entries 1.269459e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

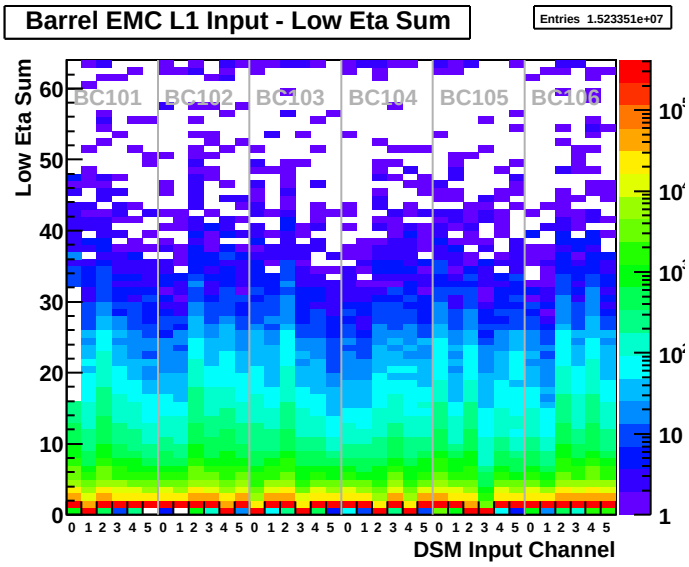

Endcap EMC L0 Input - High Tower
Entries 3.808377e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

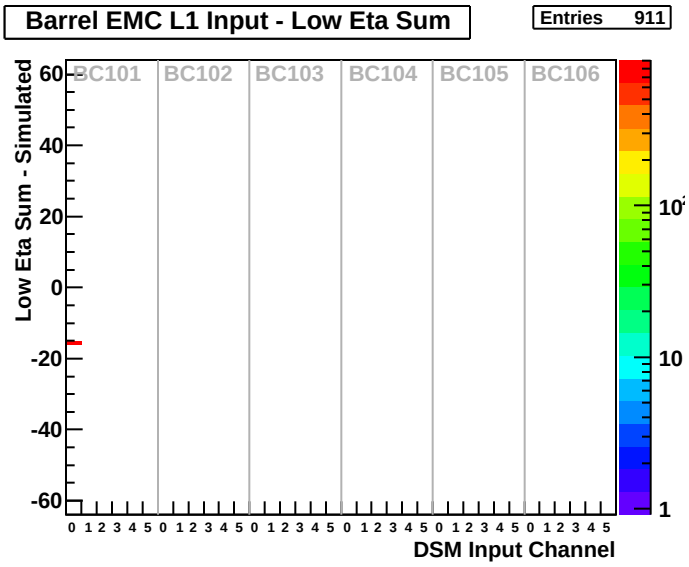

Endcap EMC L0 Input - Patch Sum
Entries 3.808377e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

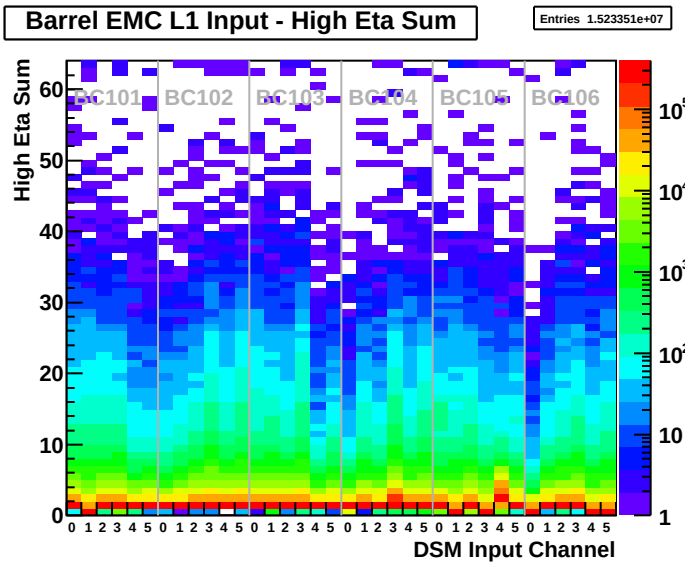

Barrel Jet Patches
Entries 7616754
JP ADC
JP ID

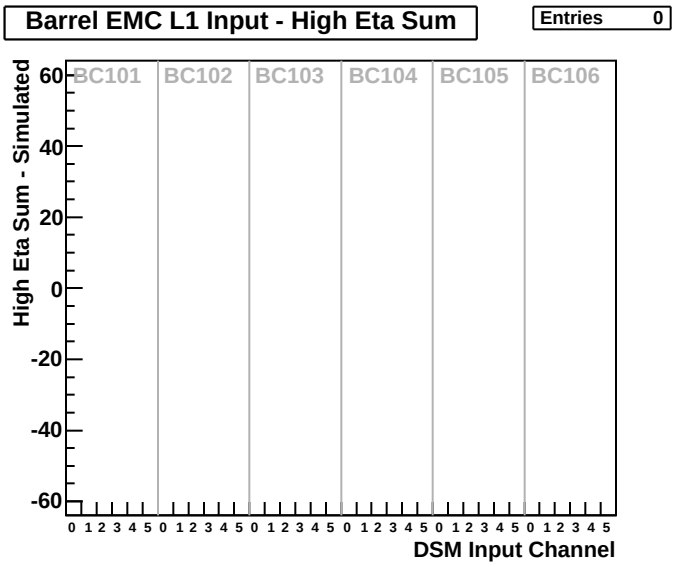

Endcap Jet Patches
Entries 2538918
JP ADC
JP ID

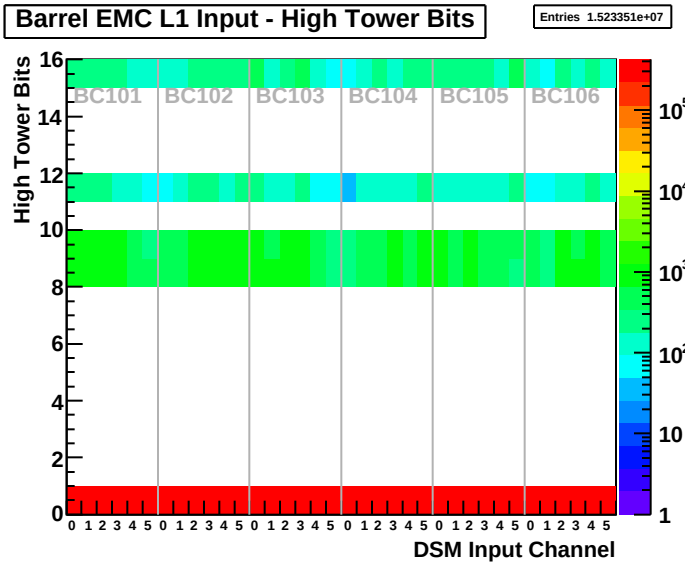

Hybrid Jet Patches
Entries 846306
JP ADC
JP ID

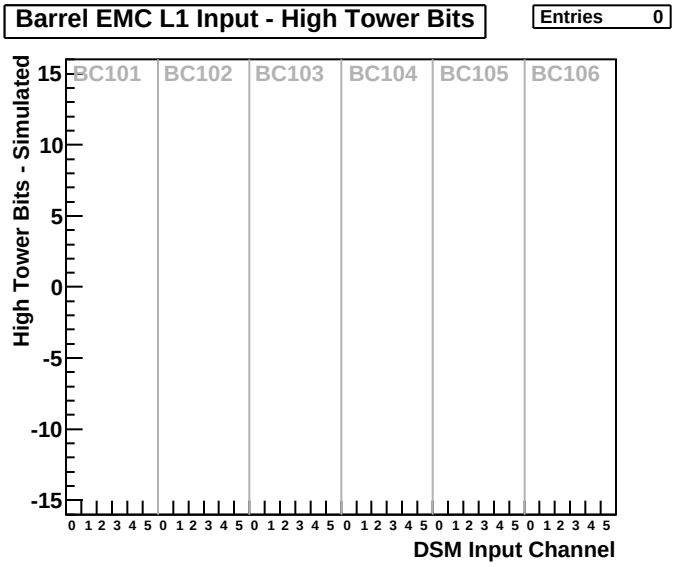

Barrel EMC L1 Input - Low Eta Sum
Entries 1.523351e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

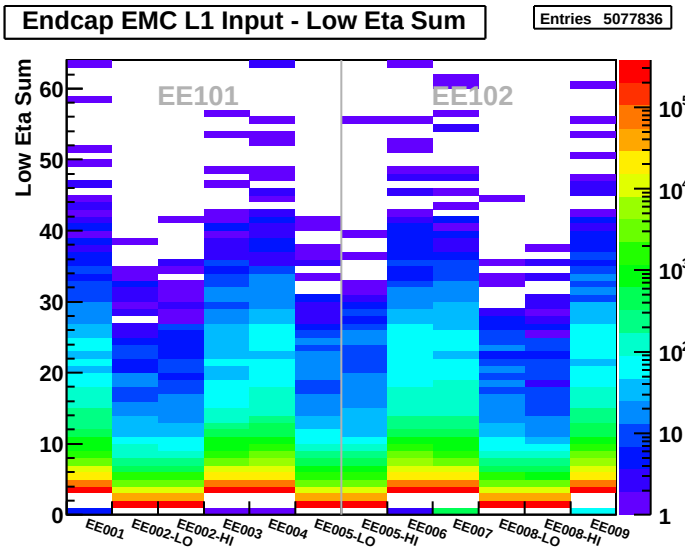

Barrel EMC L1 Input - Low Eta Sum
Entries 911
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

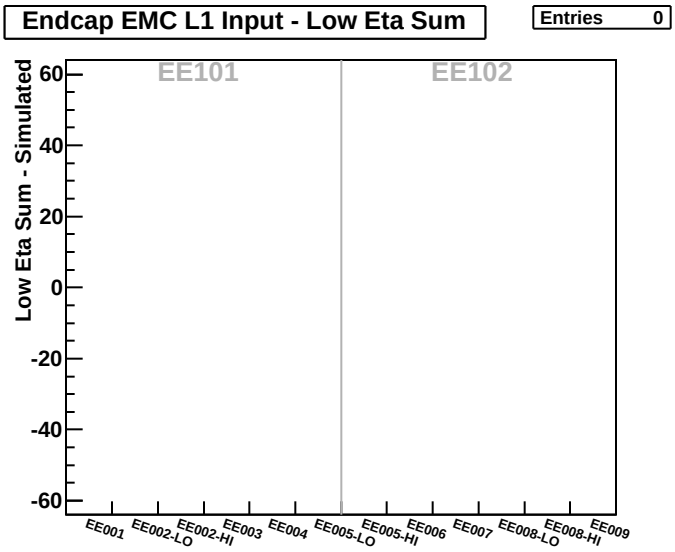

Barrel EMC L1 Input - High Eta Sum
Entries 1.523351e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

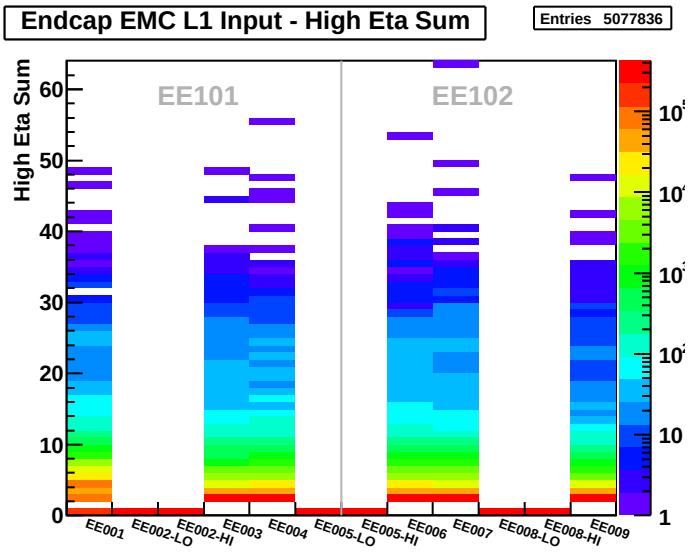

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

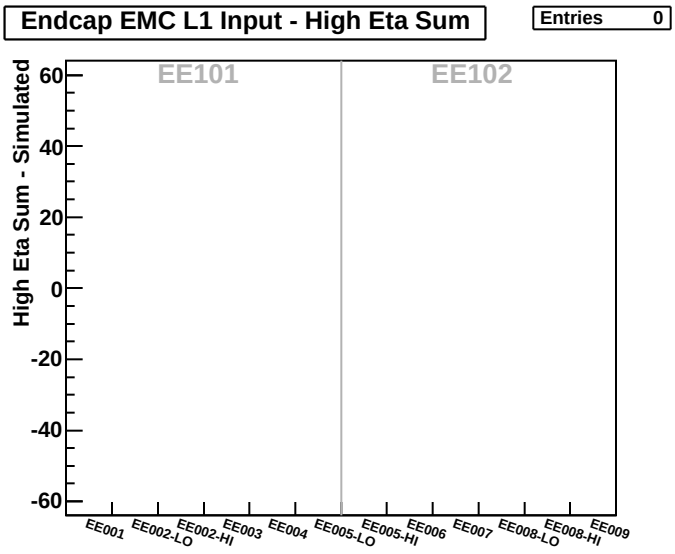

Barrel EMC L1 Input - High Tower Bits
Entries 1.523351e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

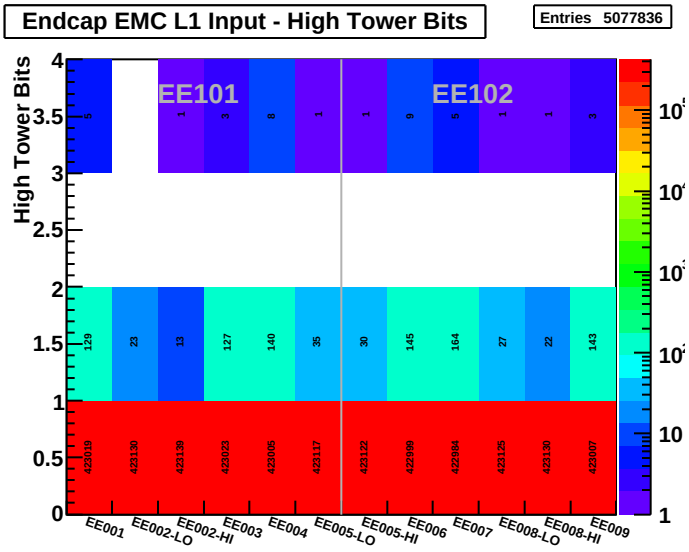

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

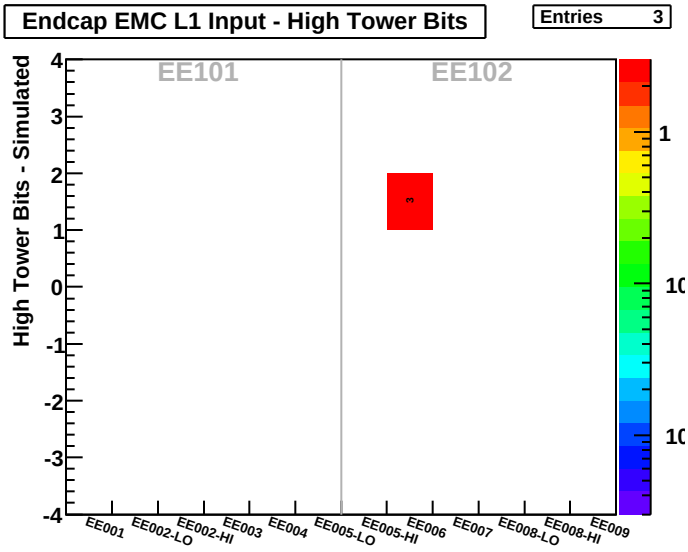

Endcap EMC L1 Input - Low Eta Sum
Entries 5077836
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

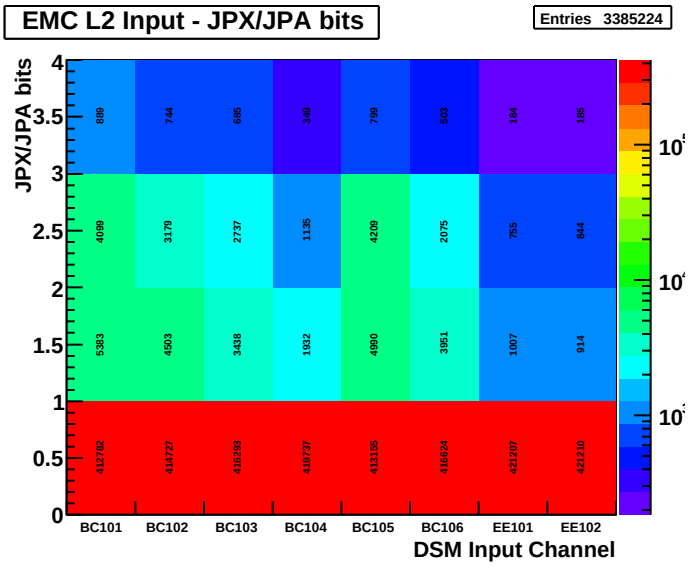

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

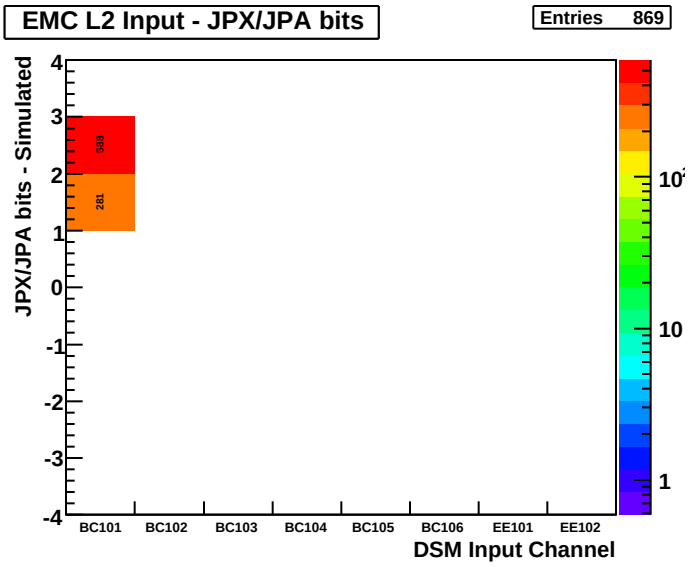

Endcap EMC L1 Input - High Eta Sum
Entries 5077836
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

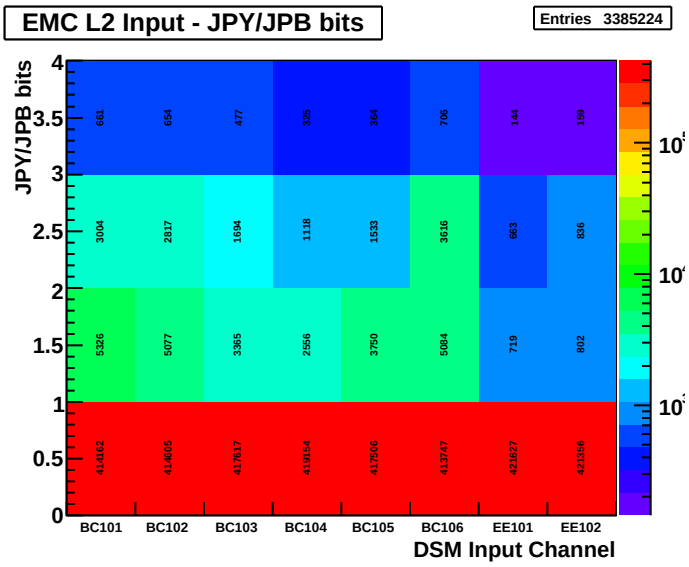

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

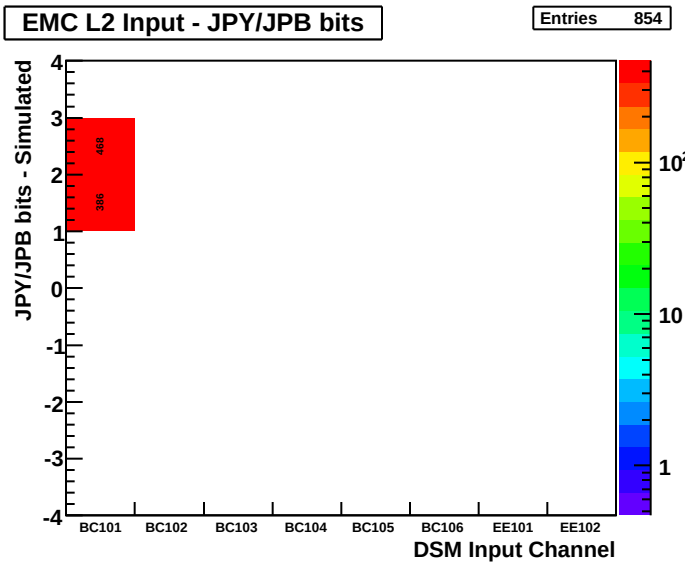

Endcap EMC L1 Input - High Tower Bits
Entries 5077836
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

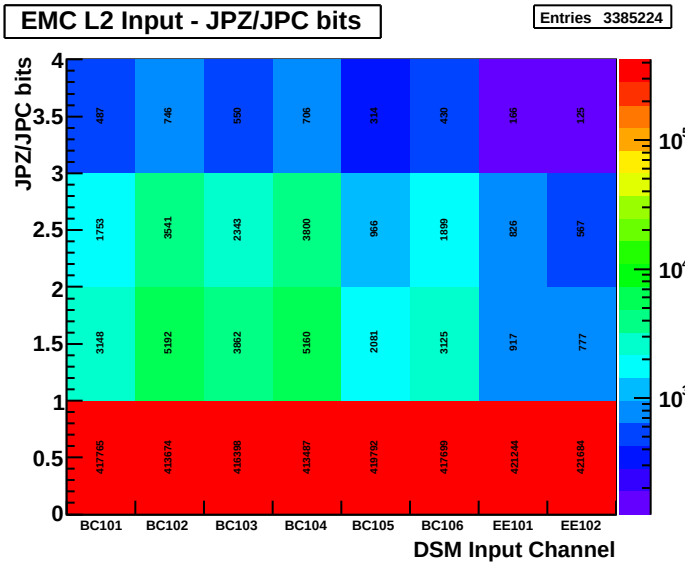

Endcap EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

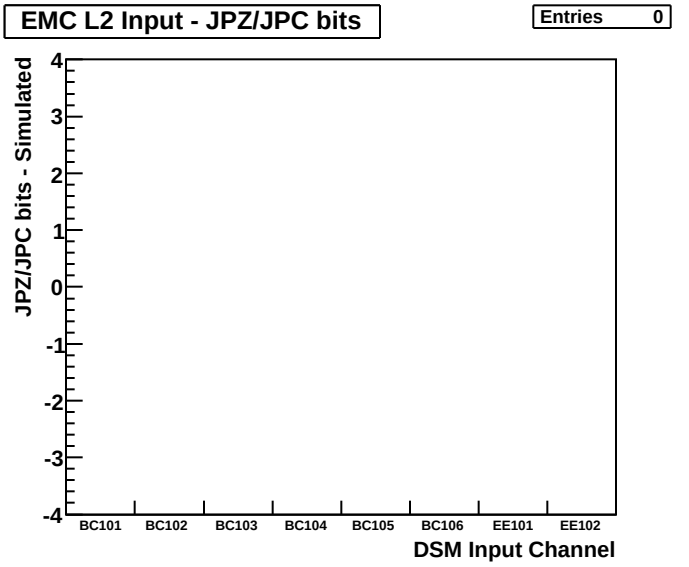

EMC L2 Input - JPX/JPA bits
Entries 3385224
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
889 744 685 349 799 503 184 185
4099 3179 2737 1135 4209 2075 755 844
5383 4503 3438 1932 4990 3951 1007 914
412762 414727 416283 419737 413155 416624 421207 421210

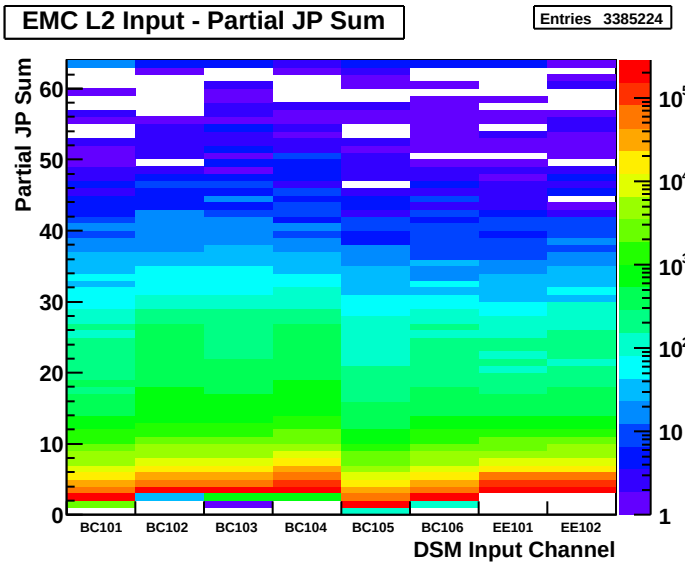

EMC L2 Input - JPX/JPA bits
Entries 869
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
588
281

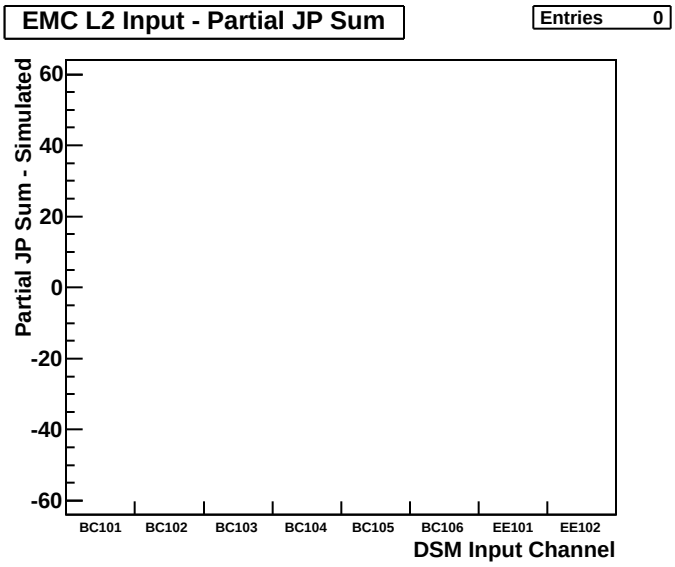

EMC L2 Input - JPY/JPB bits
Entries 3385224
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
661 654 477 325 384 706 144 159
3004 2817 1694 1118 1533 3616 663 836
5226 5077 3365 2556 3750 5084 719 802
414162 414605 417617 419154 417596 413747 421627 421356

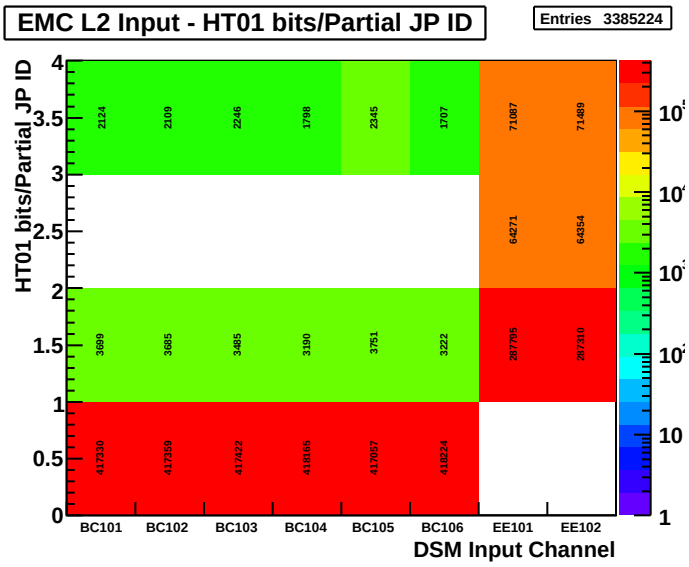

EMC L2 Input - JPY/JPB bits
Entries 854
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
468
386

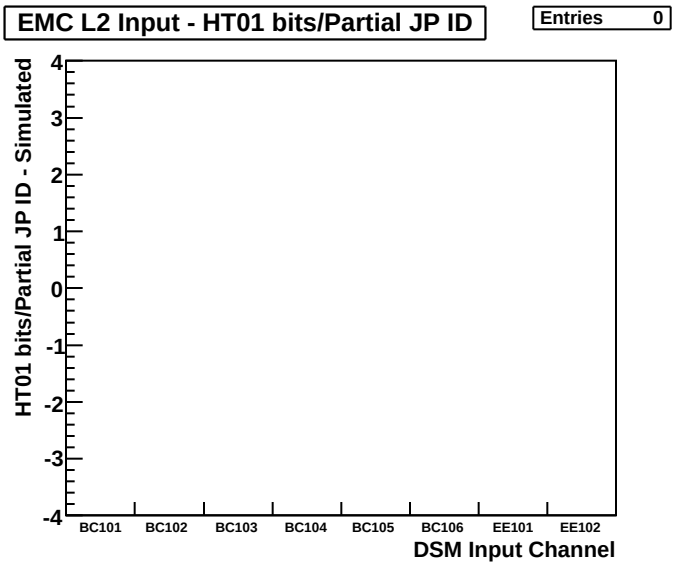

EMC L2 Input - JPZ/JPC bits
Entries 3385224
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
487 746 550 706 314 430 166 125
1753 3541 2343 3800 966 1899 826 567
3148 5192 3862 5160 2081 3125 917 777
417765 413374 416398 413487 419792 417699 421244 421684

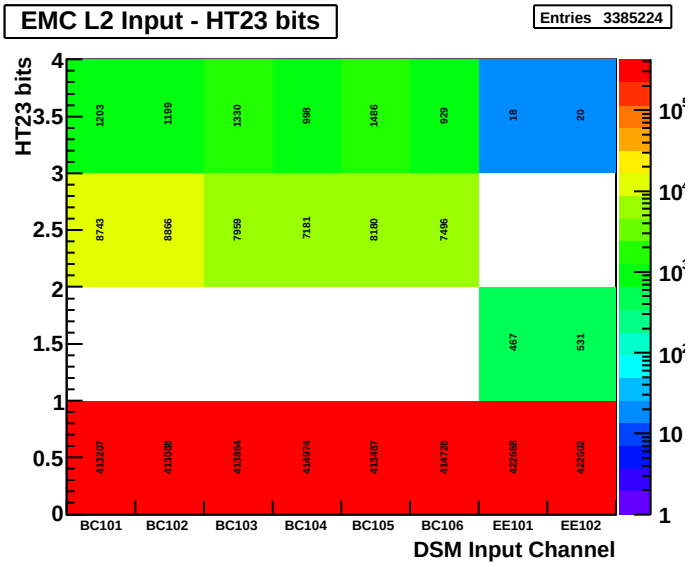

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

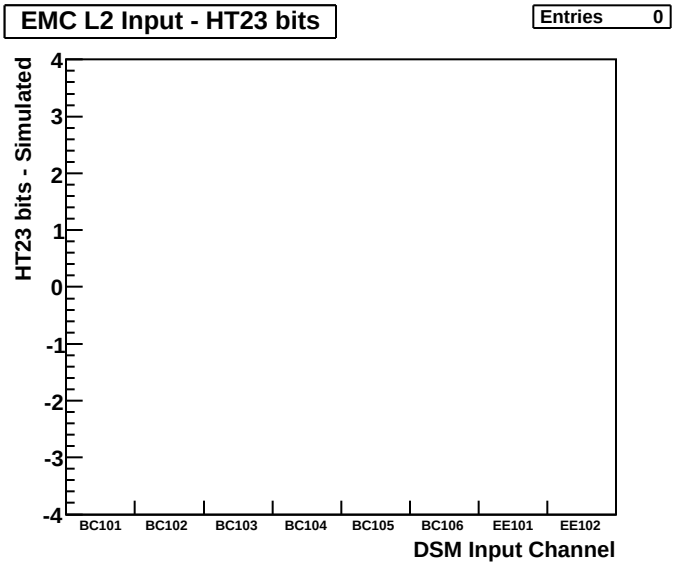

EMC L2 Input - Partial JP Sum
Entries 3385224
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

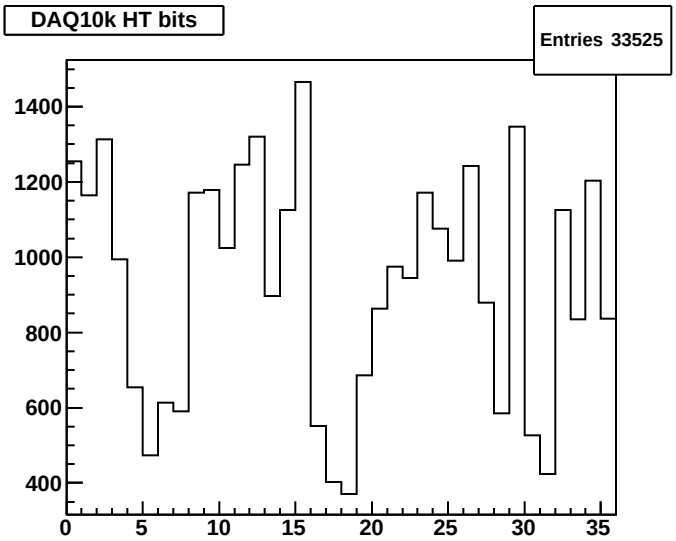

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

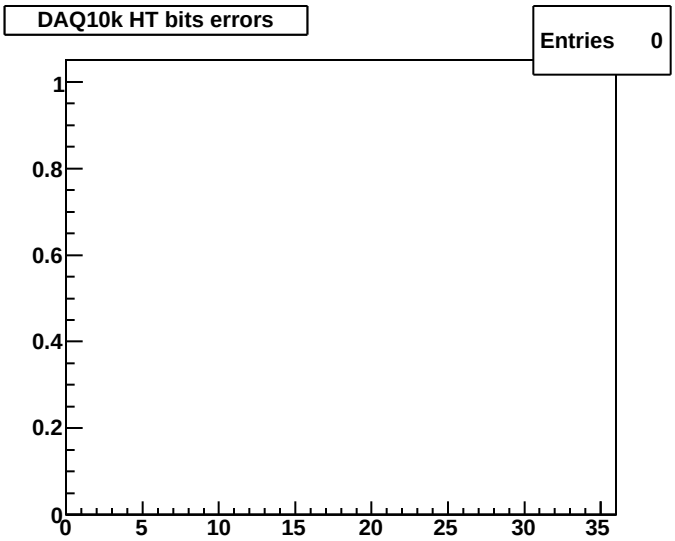

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3385224
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

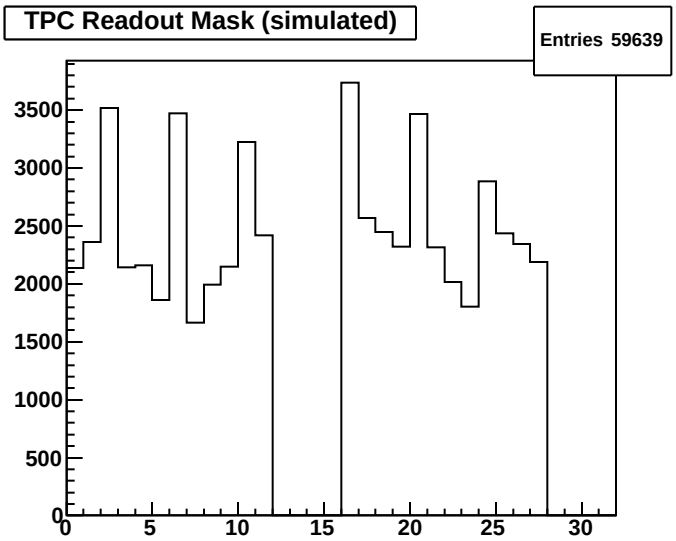

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

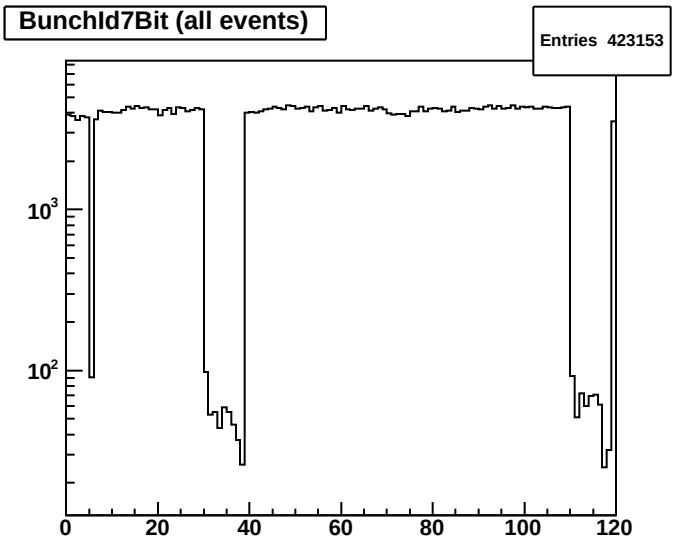

EMC L2 Input - HT23 bits
Entries 3385224
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

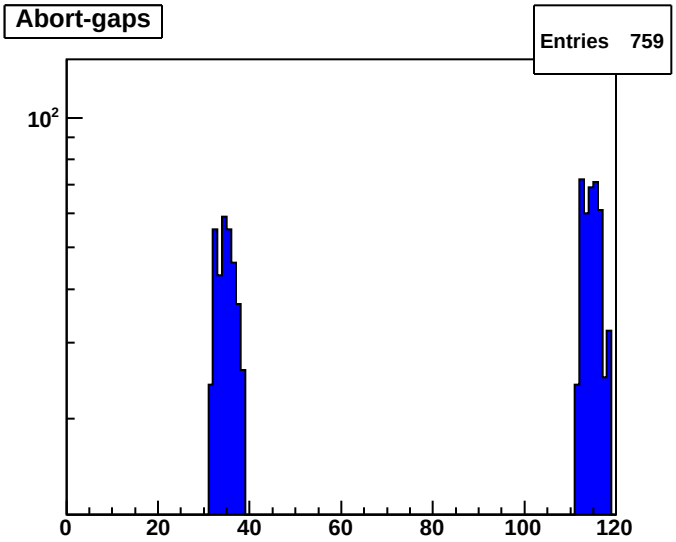

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

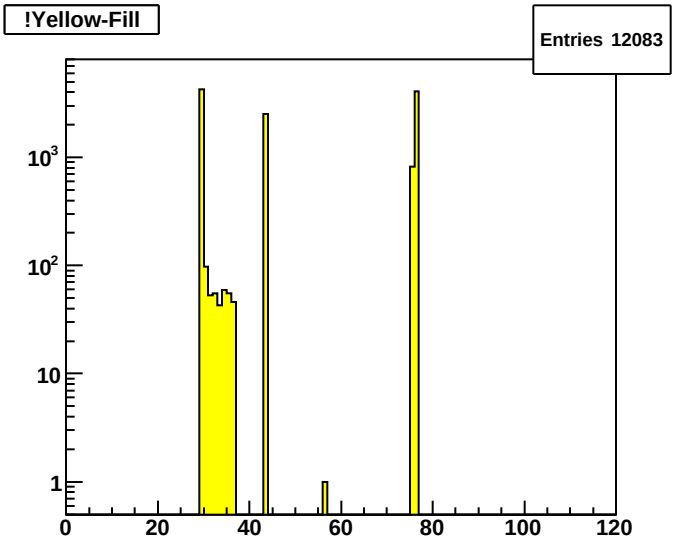

DAQ10k HT bits
Entries 33525

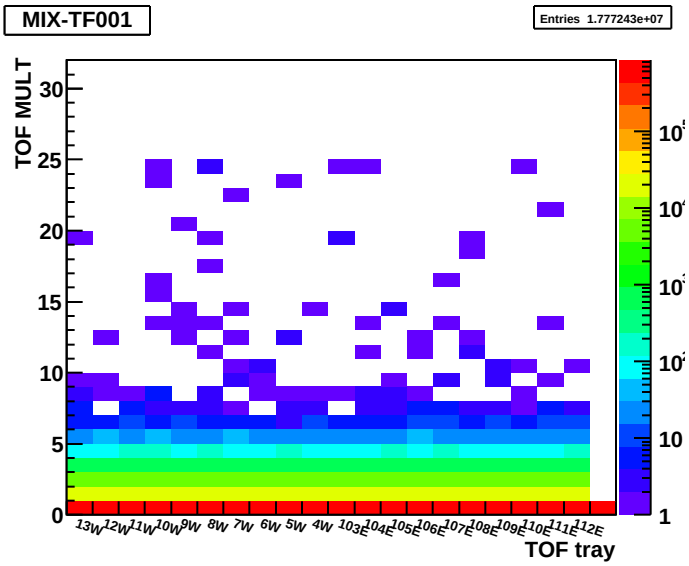

DAQ10k HT bits errors
Entries 0

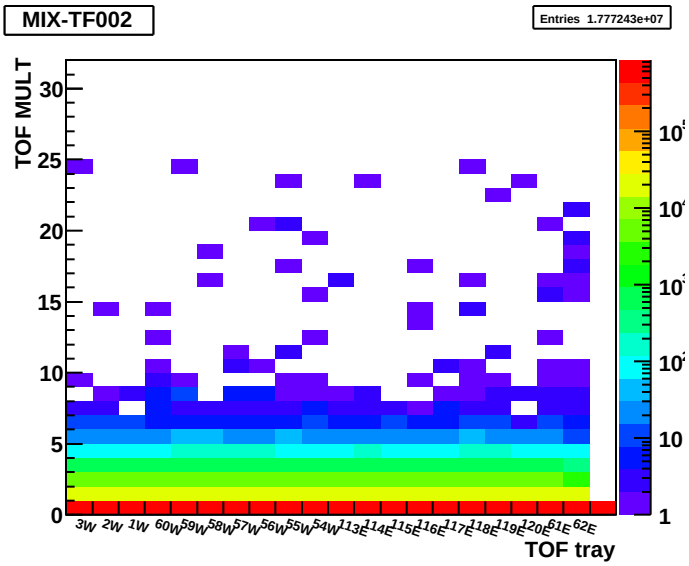

TPC Readout Mask (simulated)
Entries 59639

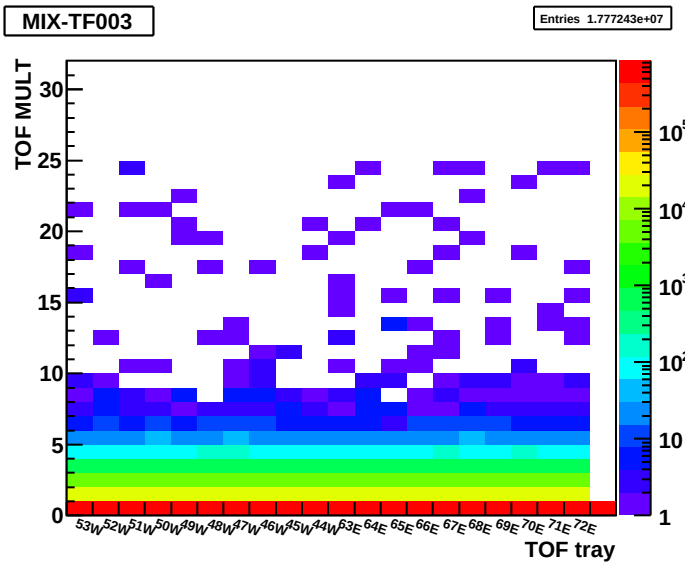

BunchId7Bit (all events)
Entries 423153

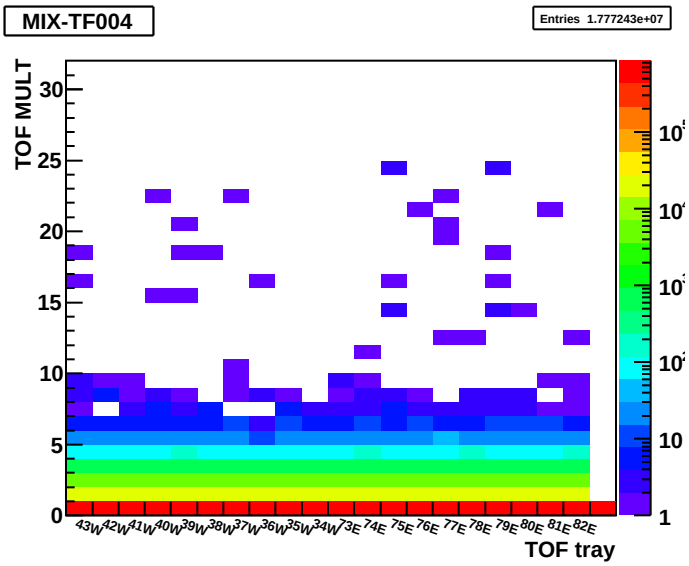

Abort-gaps
Entries 759

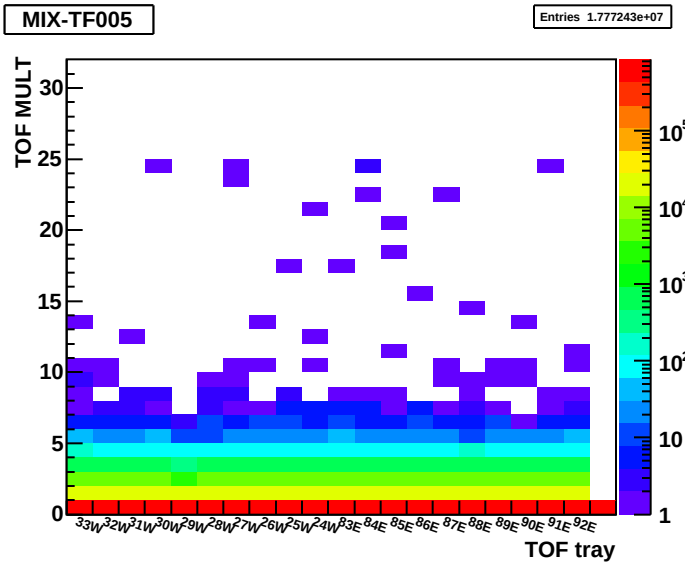

!Yellow-Fill
Entries 12083

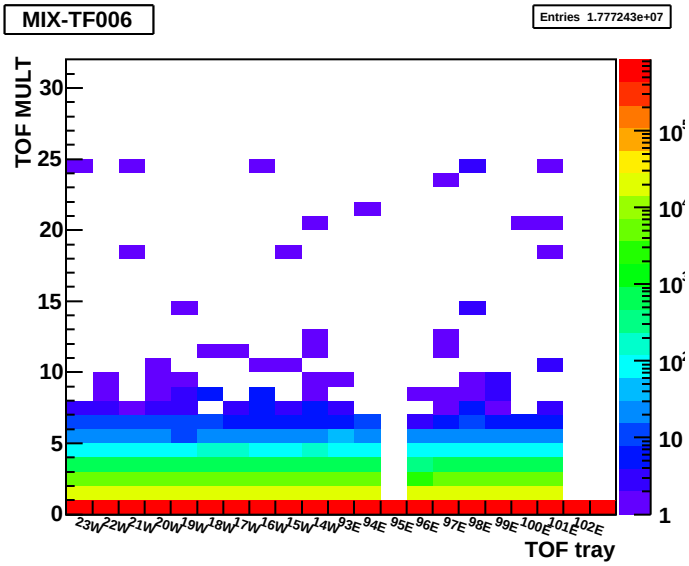

MIX-TF001
Entries 1.777243e+07
TOF MULT
TOF tray

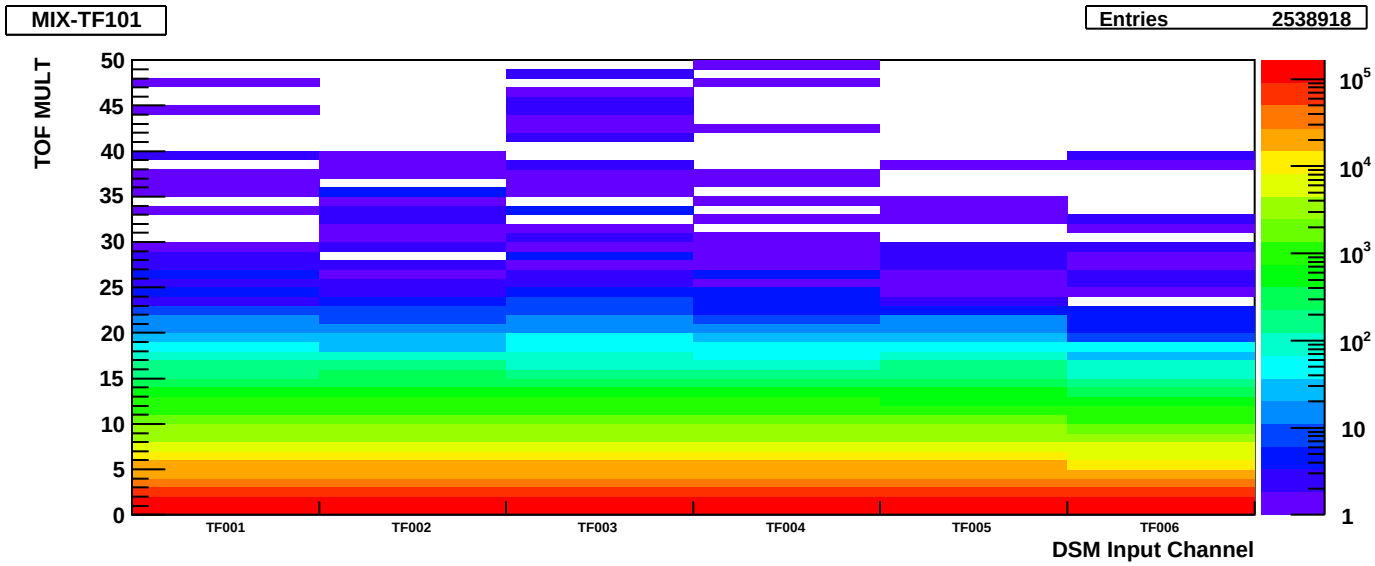

MIX-TF002
Entries 1.777243e+07
TOF MULT
TOF tray

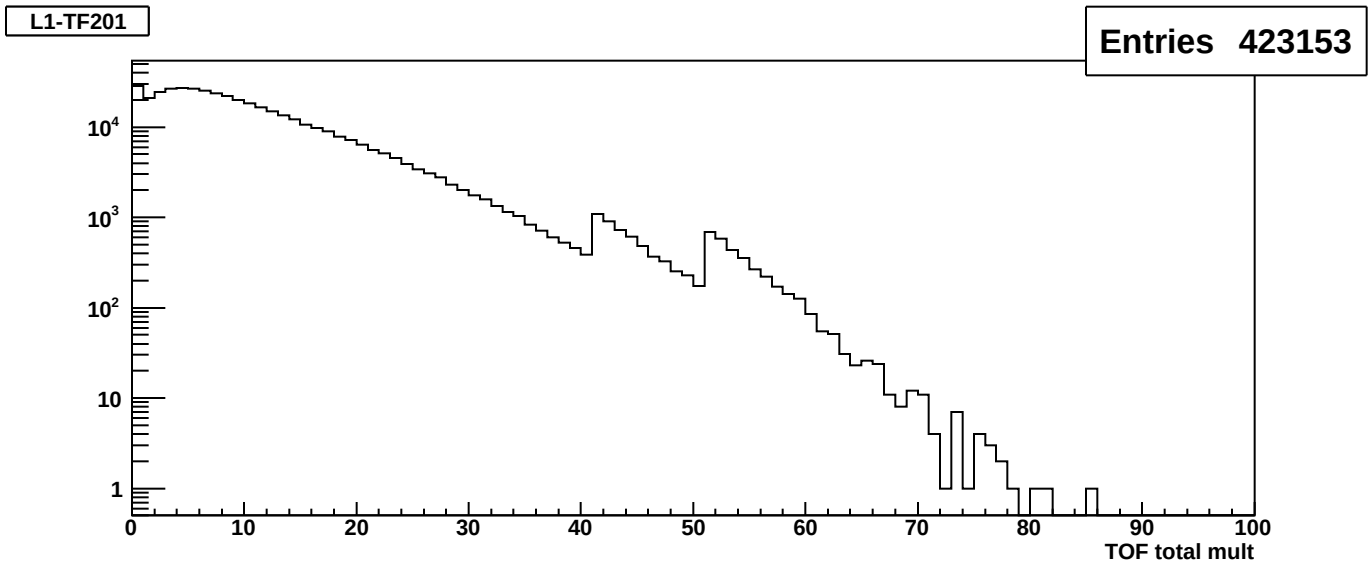

MIX-TF003
Entries 1.777243e+07
TOF MULT
TOF tray

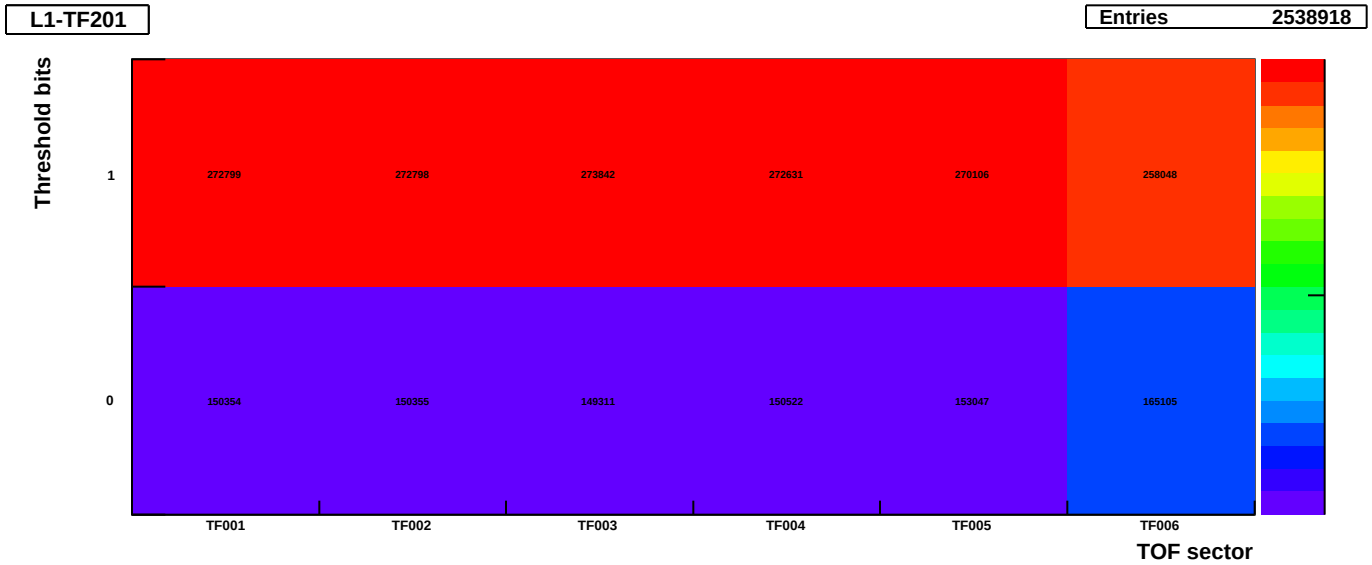

MIX-TF004
Entries 1.777243e+07
TOF MULT
TOF tray

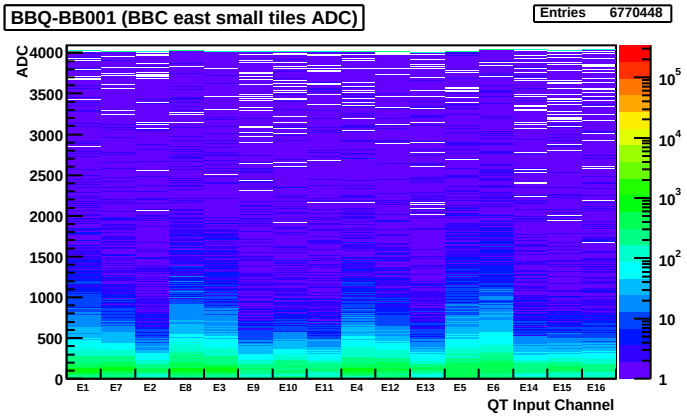

MIX-TF005
Entries 1.777243e+07
TOF MULT
TOF tray

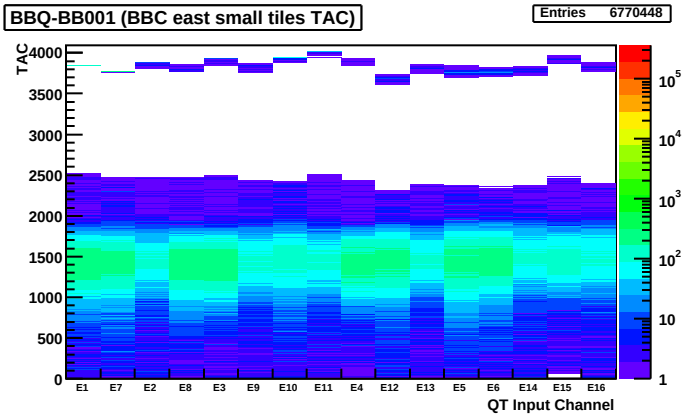

MIX-TF006
Entries 1.777243e+07
TOF MULT
TOF tray

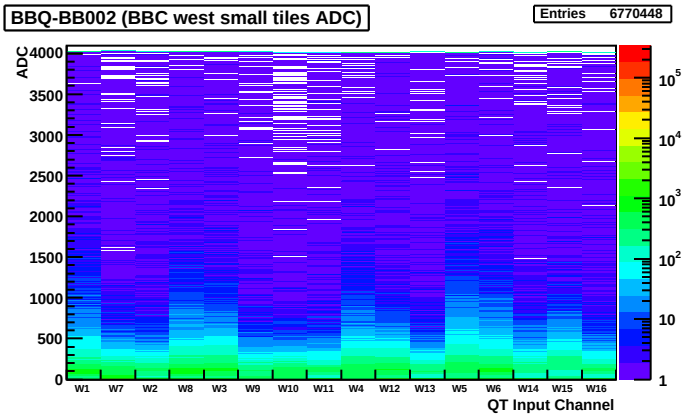

MIX-TF101
Entries 2538918
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

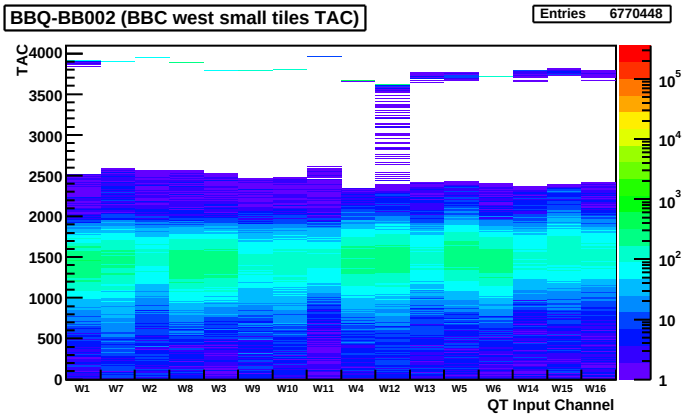

L1-TF201
Entries 423153
TOF total mult

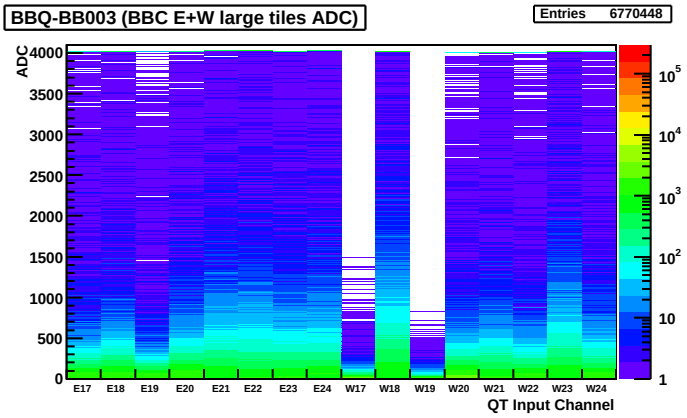

L1-TF201
Entries 2538918
Threshold bits
272799
272798
273842
272631
270106
258048
150354
150355
149311
150522
153047
165105
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

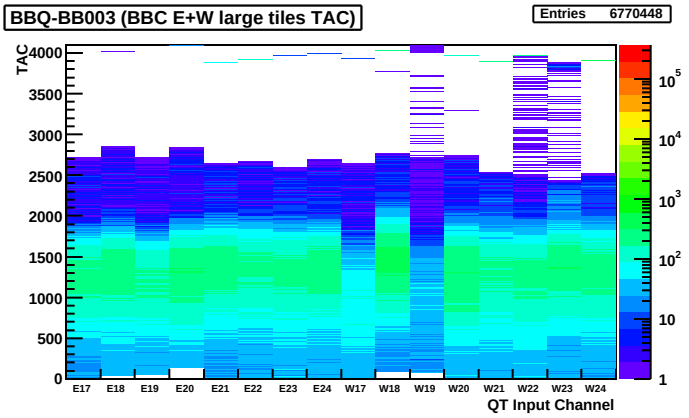

BBQ-BB001 (BBC east small tiles ADC)
Entries 6770448
ADC
QT Input Channel

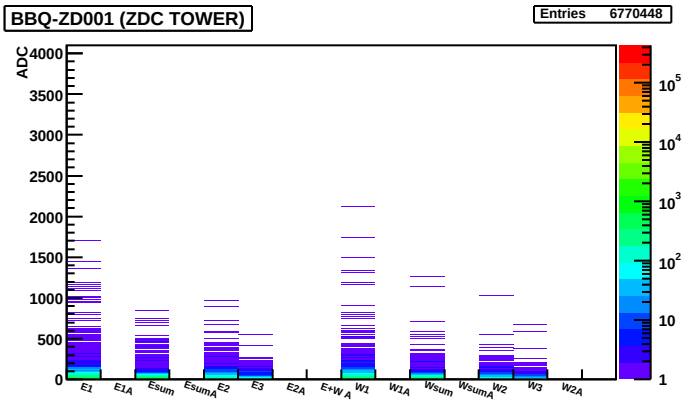

BBQ-BB001 (BBC east small tiles TAC)
Entries 6770448
TAC
QT Input Channel

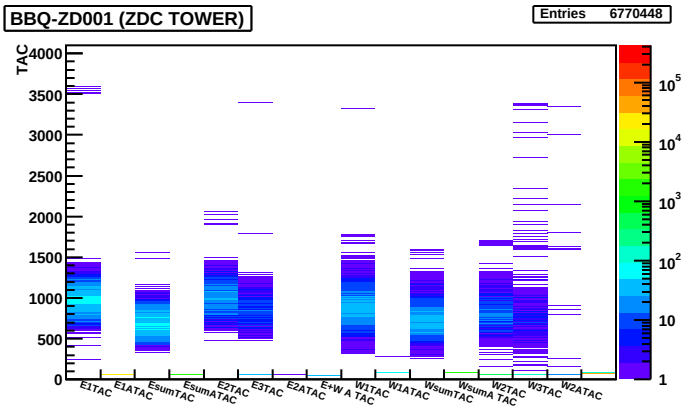

BBQ-BB002 (BBC west small tiles ADC)
Entries 6770448
ADC
QT Input Channel

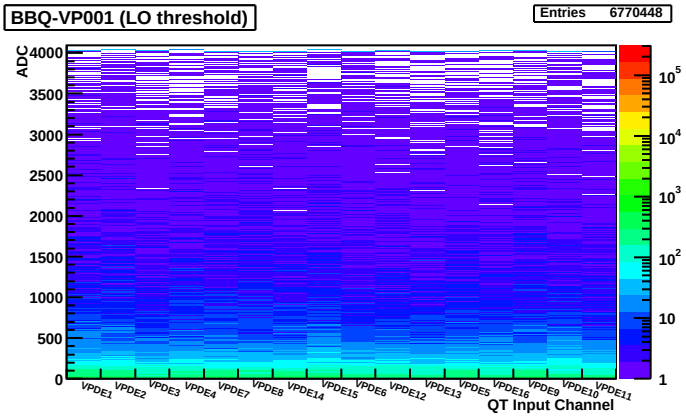

BBQ-BB002 (BBC west small tiles TAC)
Entries 6770448
TAC
QT Input Channel

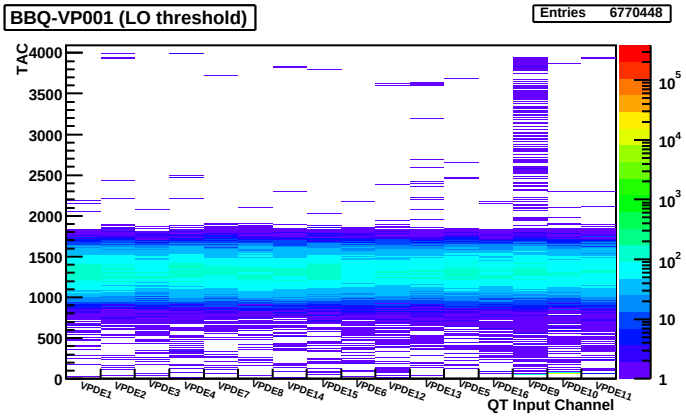

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6770448
ADC
QT Input Channel

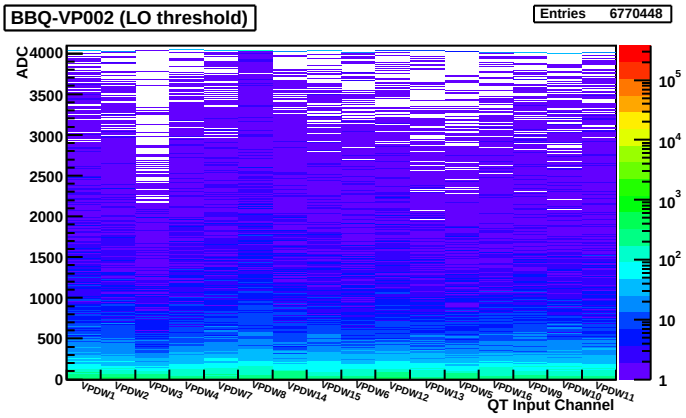

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6770448
TAC
QT Input Channel

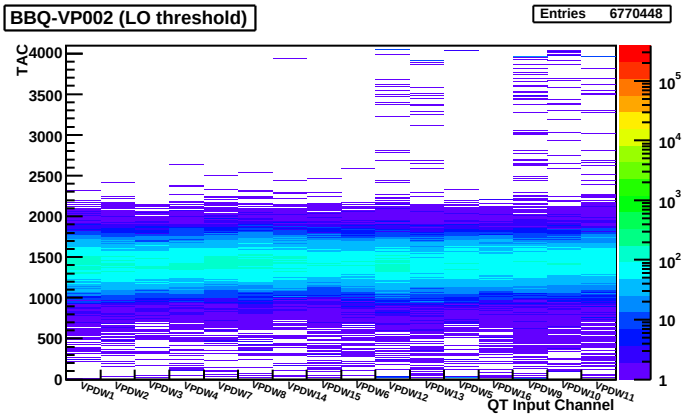

BBQ-ZD001 (ZDC TOWER)
Entries 6770448
ADC

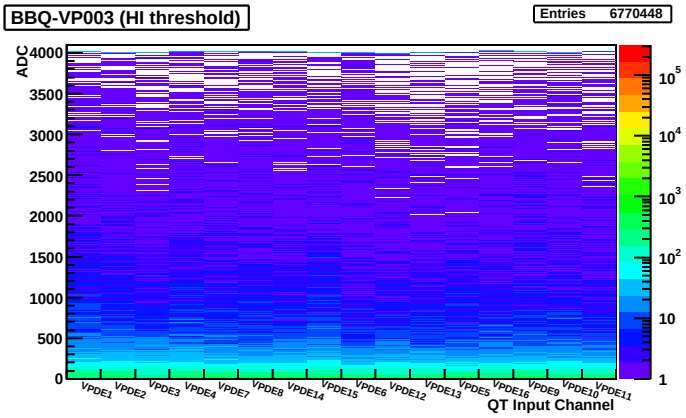

BBQ-ZD001 (ZDC TOWER)
Entries 6770448
TAC

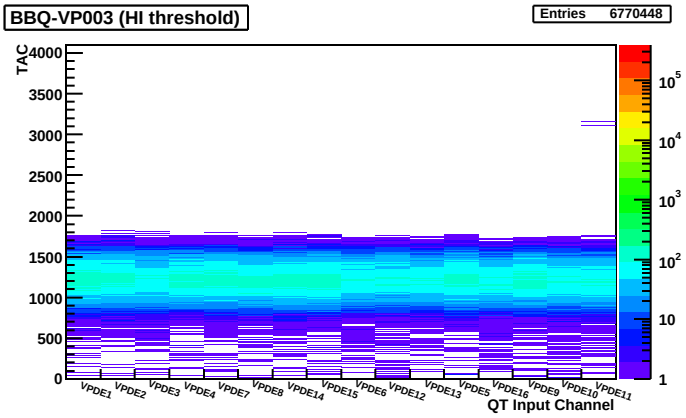

BBQ-VP001 (LO threshold)
Entries 6770448
ADC
QT Input Channel

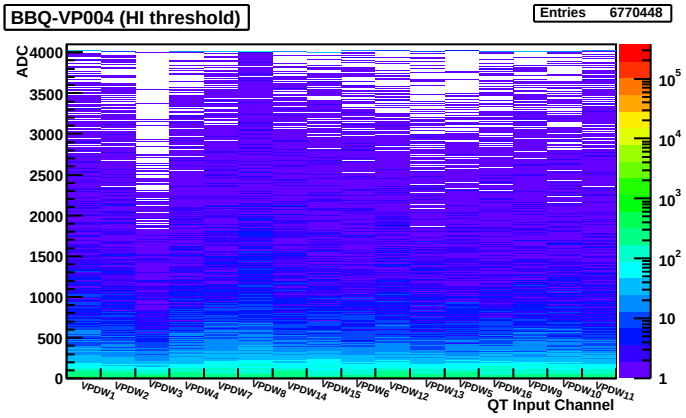

BBQ-VP001 (LO threshold)
Entries 6770448
TAC
QT Input Channel

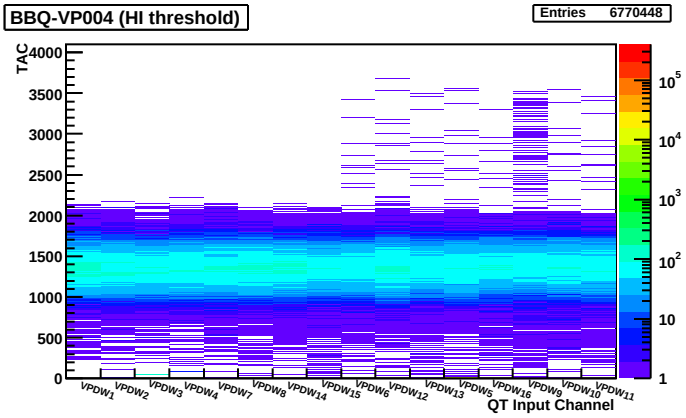

BBQ-VP002 (LO threshold)
Entries 6770448
ADC
QT Input Channel

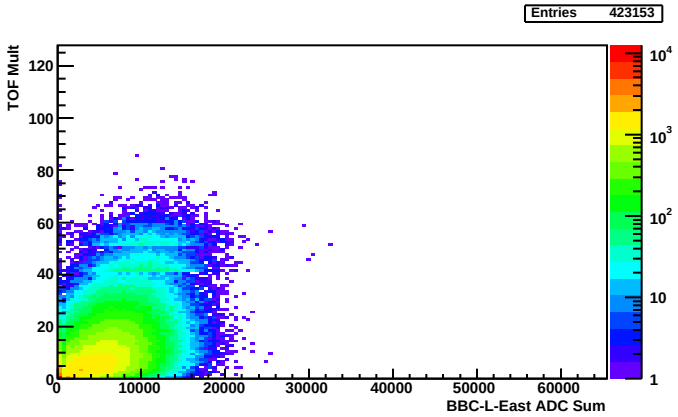

BBQ-VP002 (LO threshold)
Entries 6770448
TAC
QT Input Channel

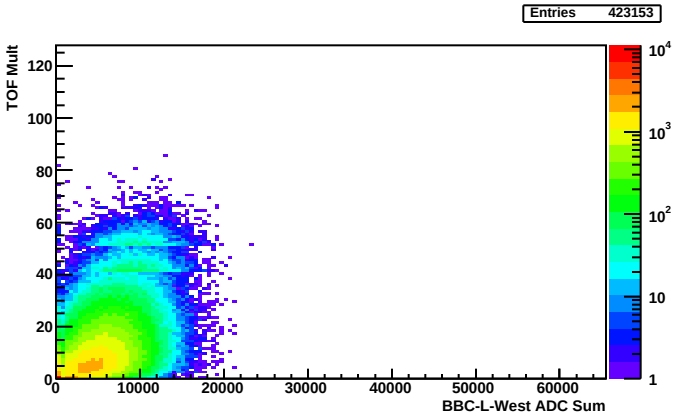

BBQ-VP003 (HI threshold)
Entries 6770448
ADC
QT Input Channel

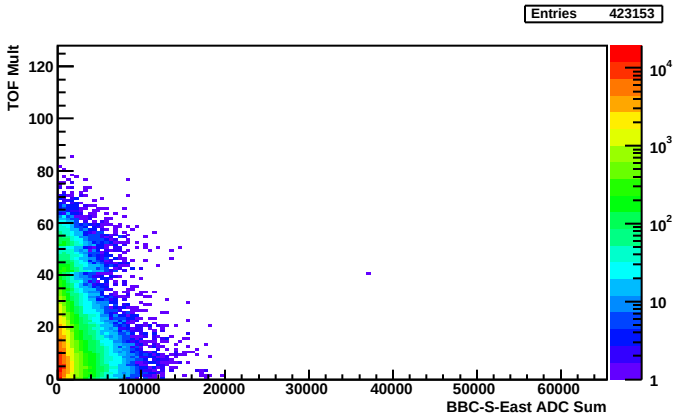

BBQ-VP003 (HI threshold)
Entries 6770448
TAC
QT Input Channel

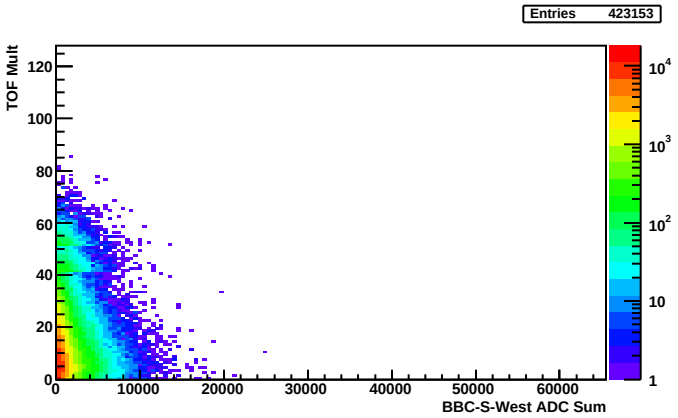

BBQ-VP004 (HI threshold)
Entries 6770448
ADC
QT Input Channel

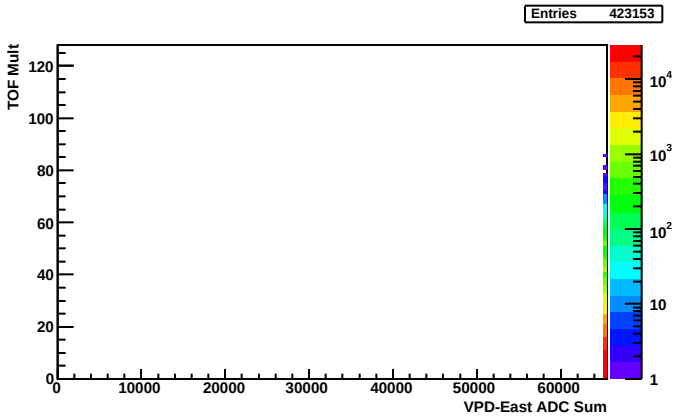

BBQ-VP004 (HI threshold)
Entries 6770448
TAC
QT Input Channel

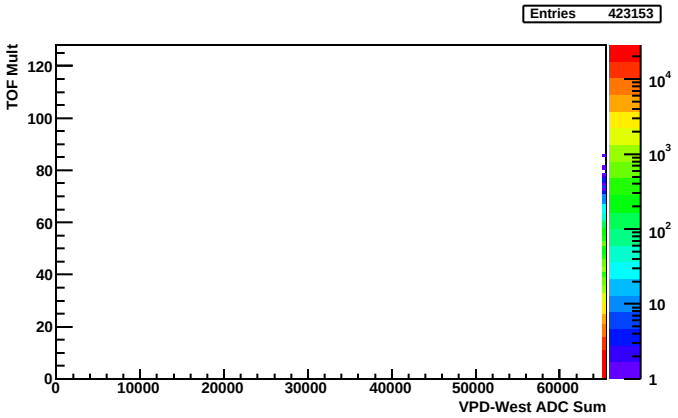

Entries 423153
TOF Mult
BBC-L-East ADC Sum

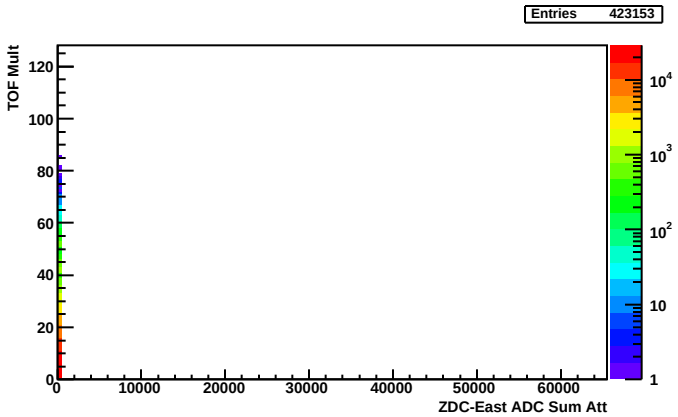

Entries 423153
TOF Mult
BBC-L-West ADC Sum

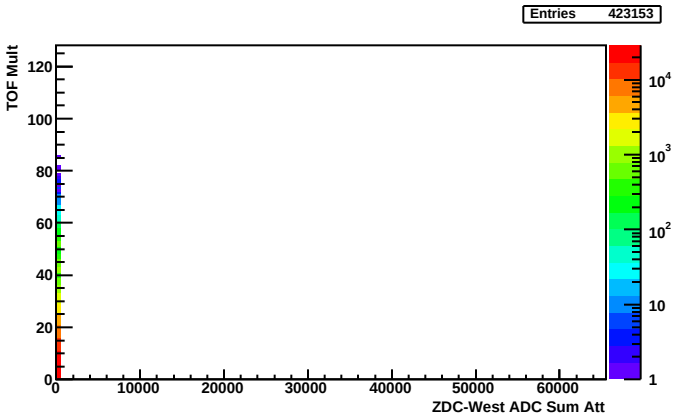

Entries 423153
TOF Mult
BBC-S-East ADC Sum

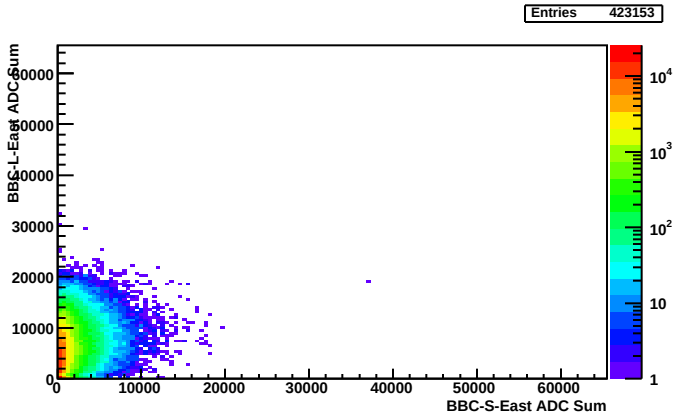

Entries 423153
TOF Mult
BBC-S-West ADC Sum

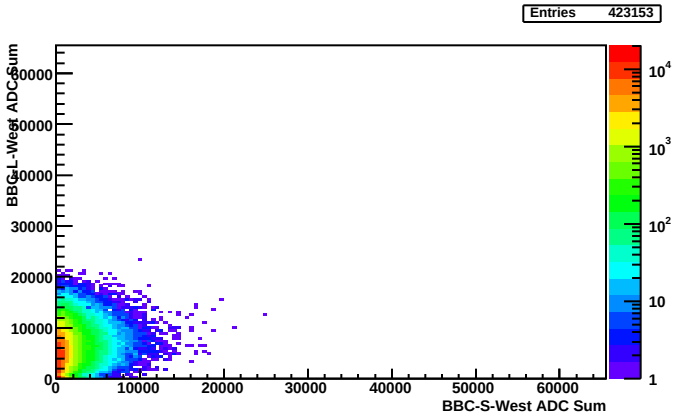

Entries 423153
TOF Mult
VPD-East ADC Sum

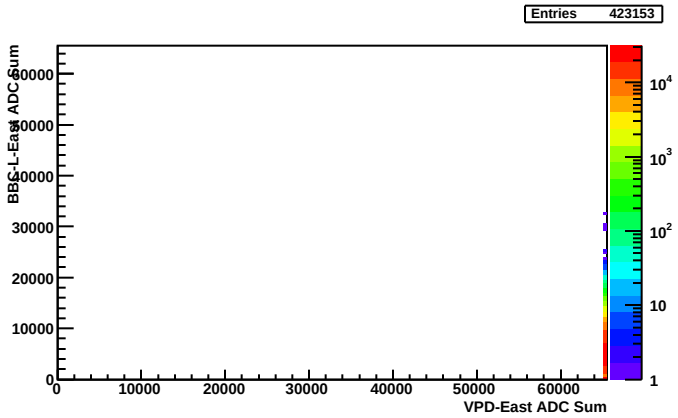

Entries 423153
TOF Mult
VPD-West ADC Sum

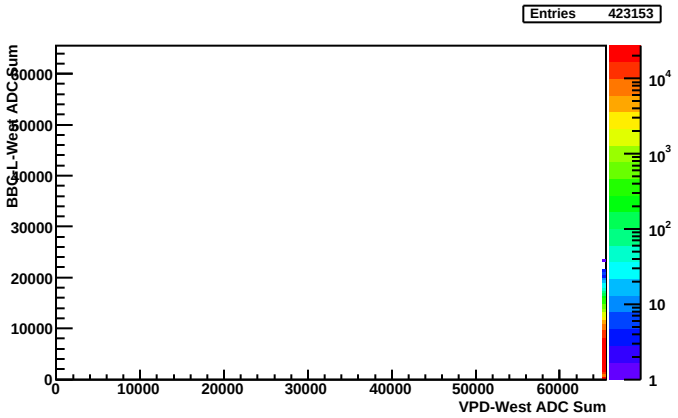

Entries 423153
TOF Mult
ZDC-East ADC Sum Att

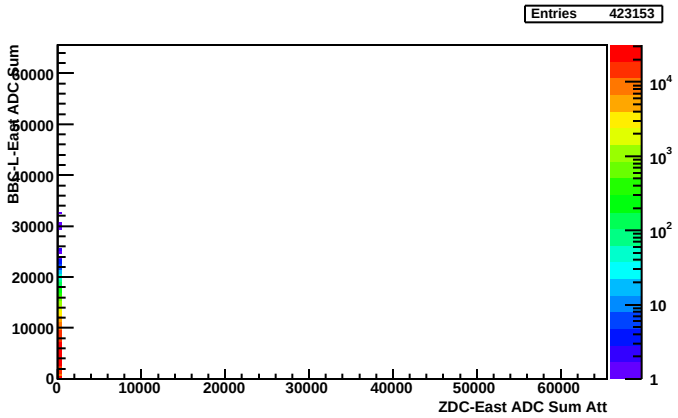

Entries 423153
TOF Mult
ZDC-West ADC Sum Att


Entries 423153
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 423153
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 423153
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 423153
BBC-L-West ADC Sum
VPD-West ADC Sum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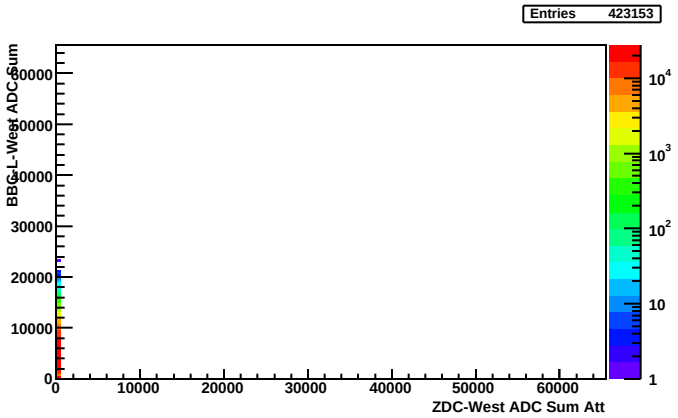
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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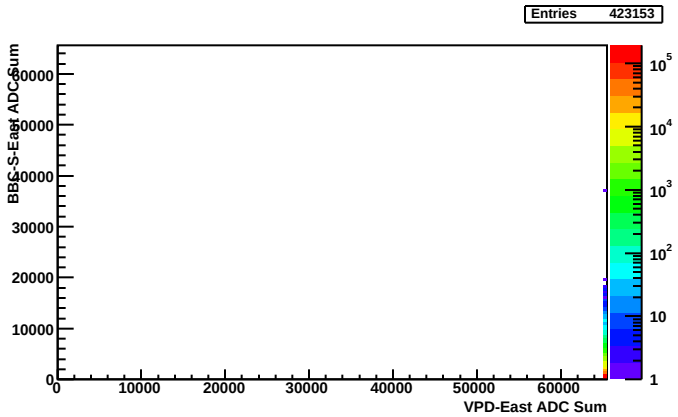
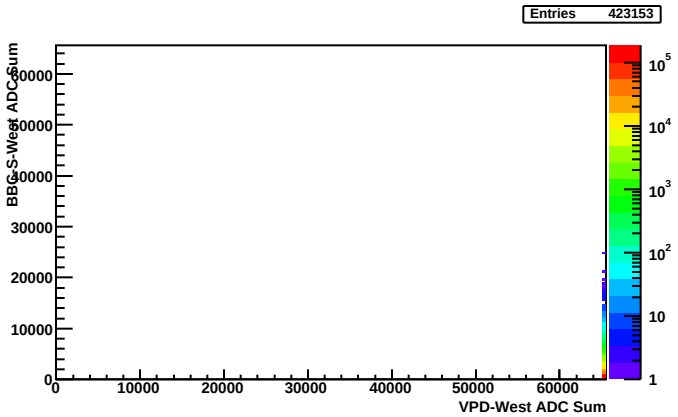
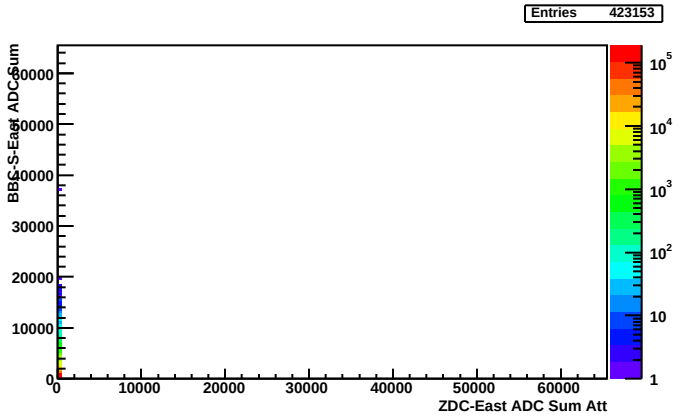
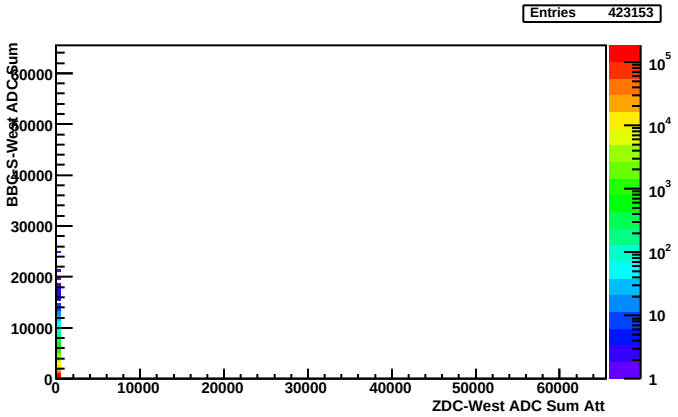
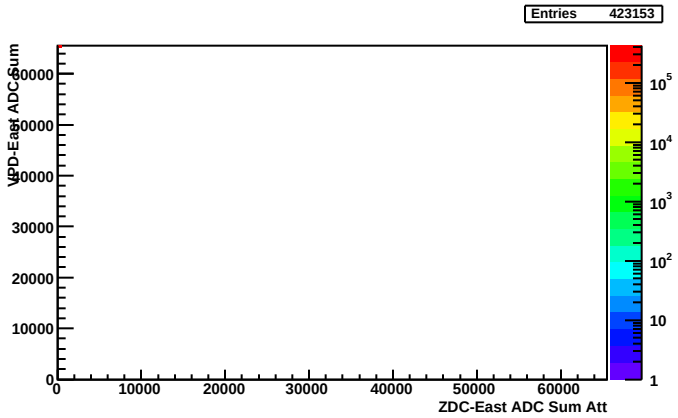
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

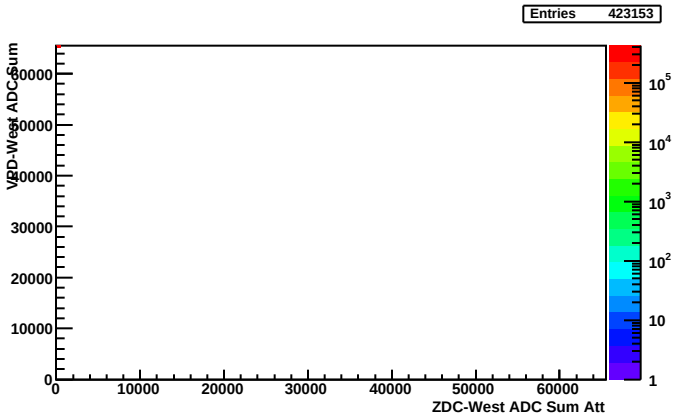

Entries 423153
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 423153
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 423153
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 423153
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 423153
VPD-East ADC Sum
ZDC-East ADC Sum Att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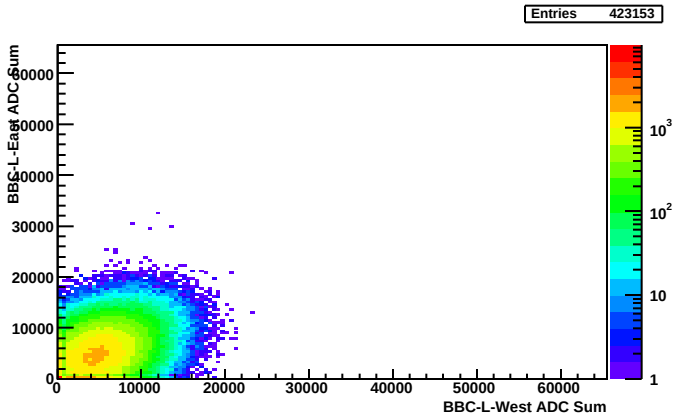
VPD-West ADC Sum
ZDC-West ADC Sum Att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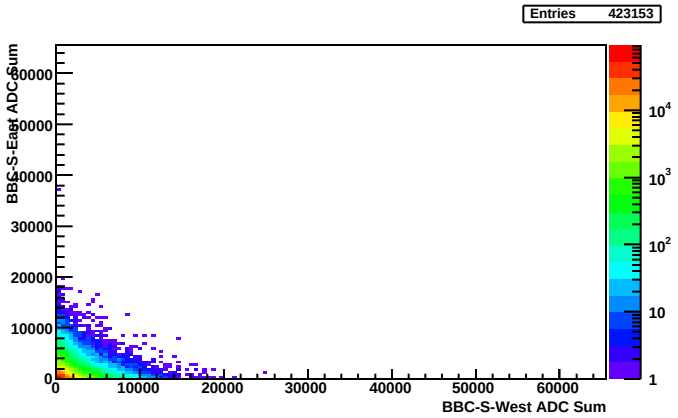
BBC-L-East ADC Sum
BBC-L-West ADC Sum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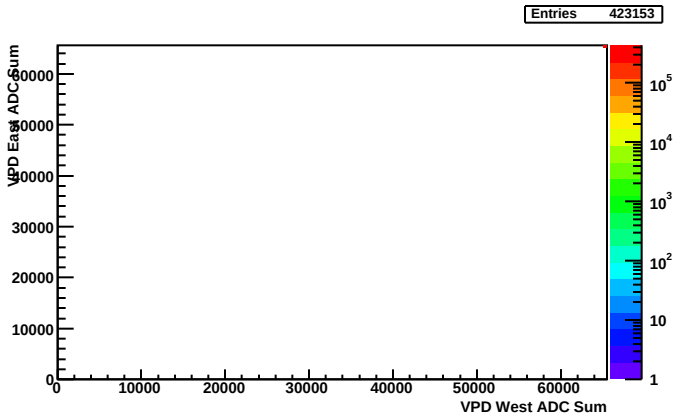
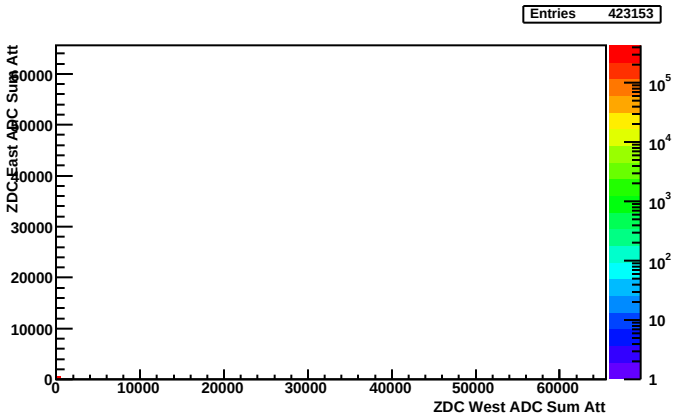
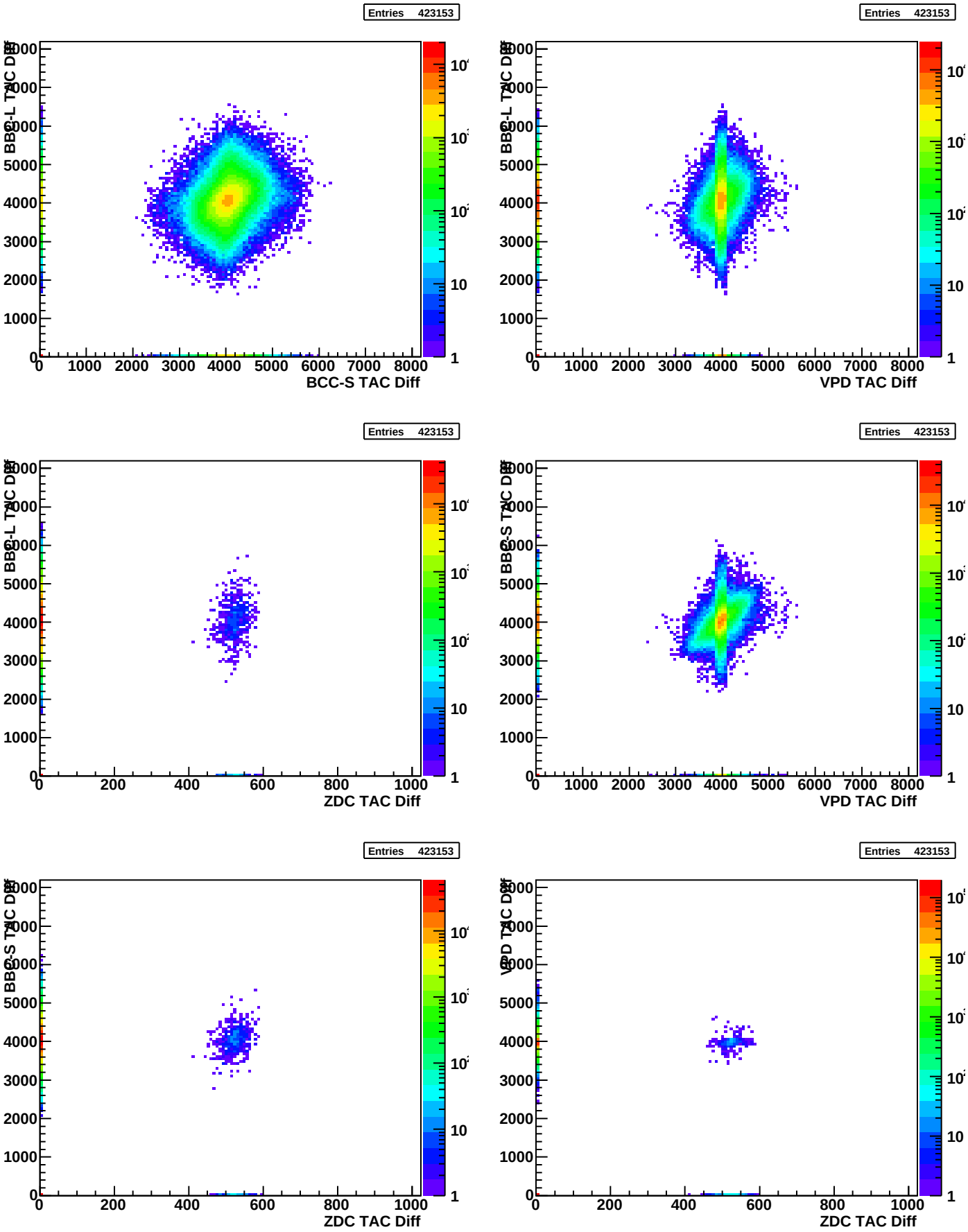
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 423153
VPD East ADC Sum
VPD West ADC Sum


Entries 423153
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 423153
BBC-L TAC Diff
BCC-S TAC Diff
Entries 423153
BBC-L TAC Diff
VPD TAC Diff
Entries 423153
BBC-L TAC Diff
ZDC TAC Diff
Entries 423153
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VPD TAC Diff
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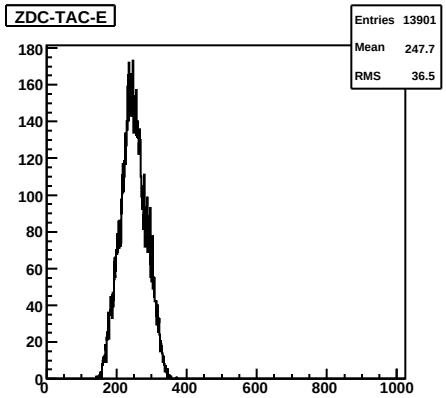
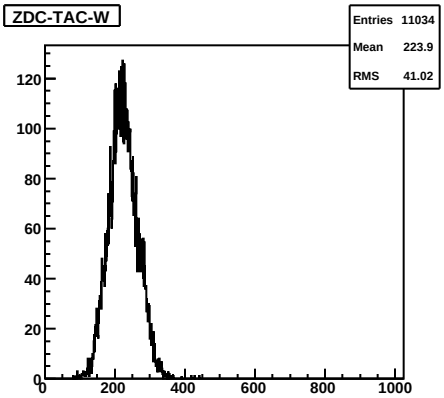
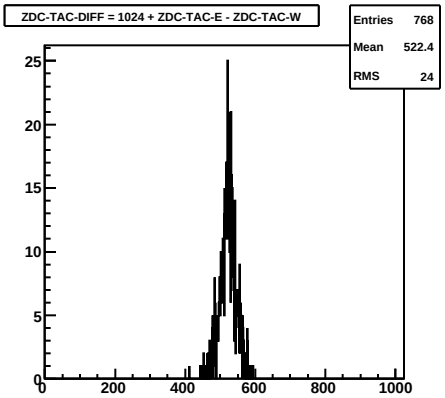
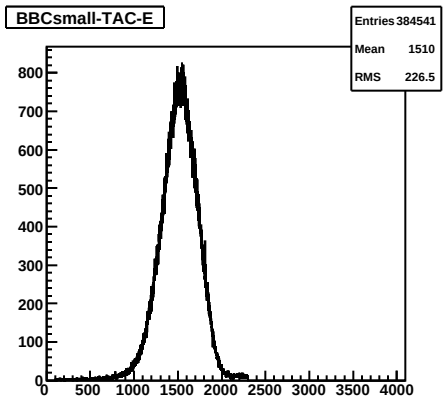
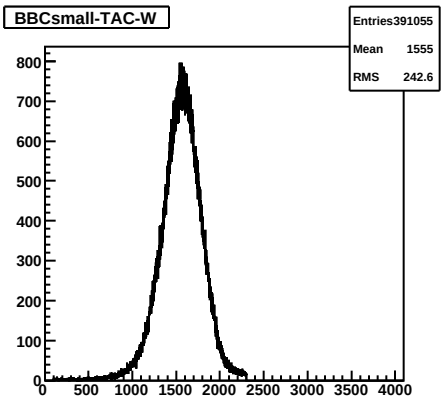
BBC-S TAC Diff
ZDC TAC Diff
Entries 423153
VPD TAC Diff
ZDC TAC Diff

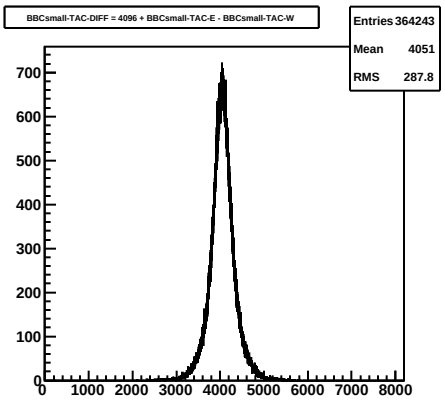

ZDC-TAC-E
Entries 13901
Mean 247.7
RMS 36.5

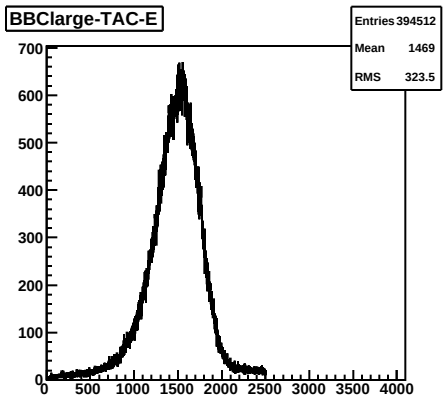

ZDC-TAC-W
Entries 11034
Mean 223.9
RMS 41.02

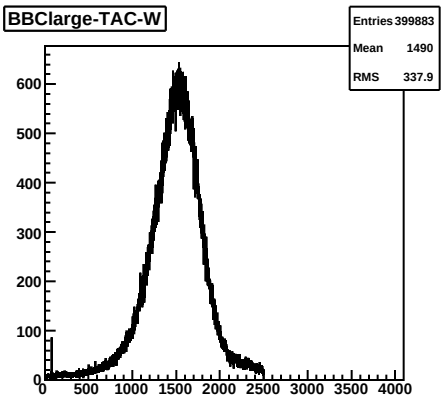

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 768
Mean 522.4
RMS 24

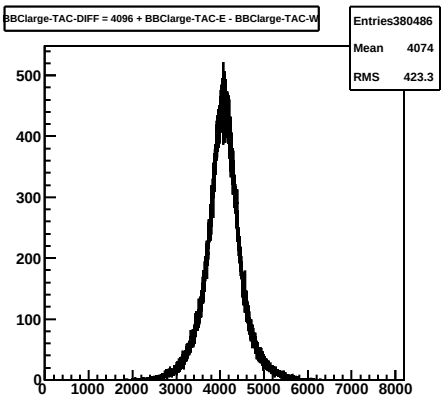

BBCsmall-TAC-E
Entries 384541
Mean 1510
RMS 226.5

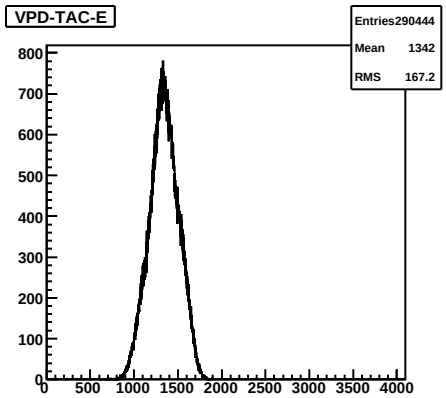

BBCsmall-TAC-W
Entries 391055
Mean 1555
RMS 242.6

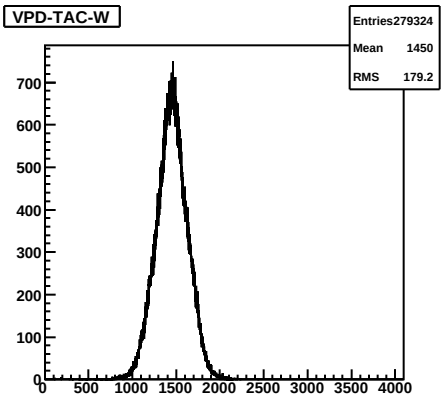

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 364243
Mean 4051
RMS 287.8

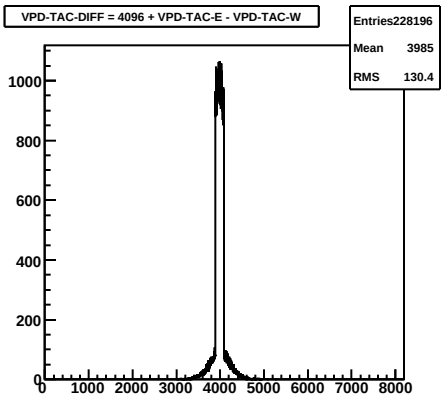

BBClarge-TAC-E
Entries 394512
Mean 1469
RMS 323.5

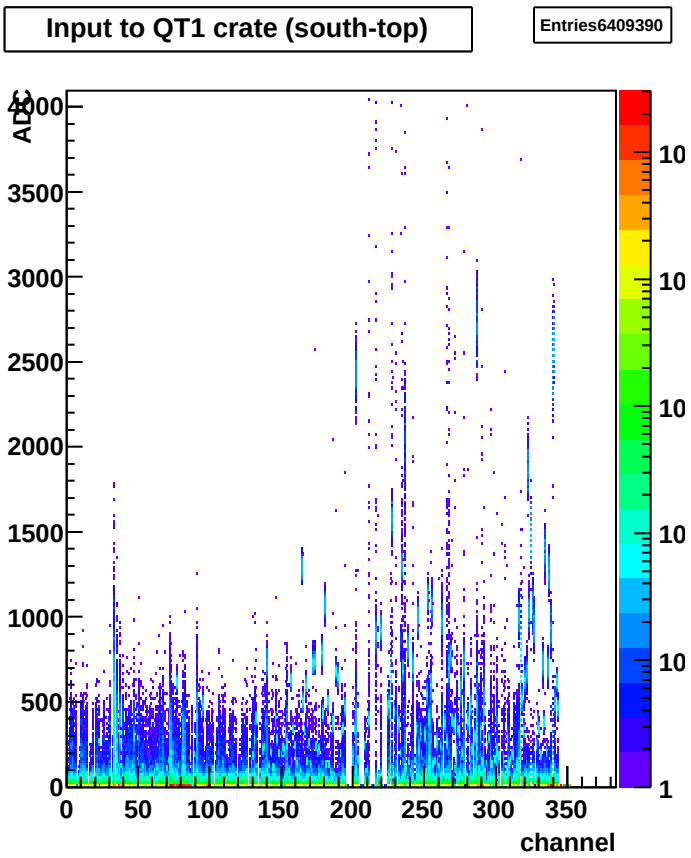

BBClarge-TAC-W
Entries 399883
Mean 1490
RMS 337.9

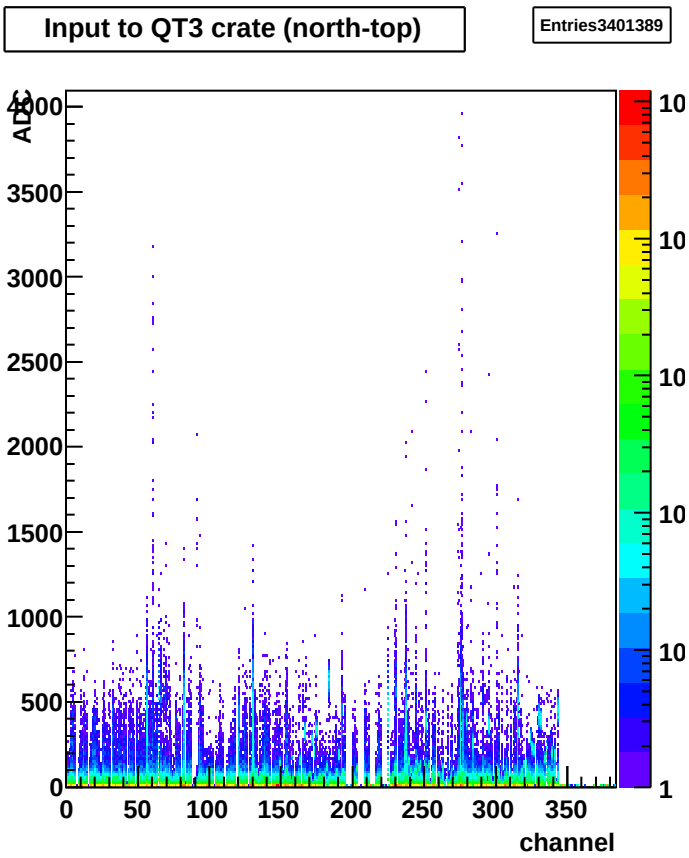

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 380486
Mean 4074
RMS 423.3

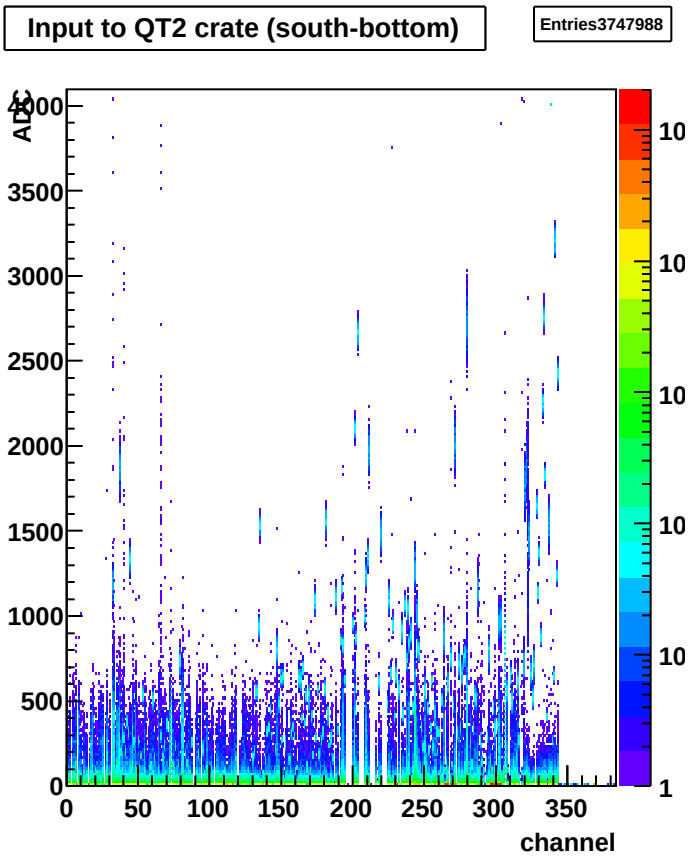

VPD-TAC-E
Entries 290444
Mean 1342
RMS 167.2

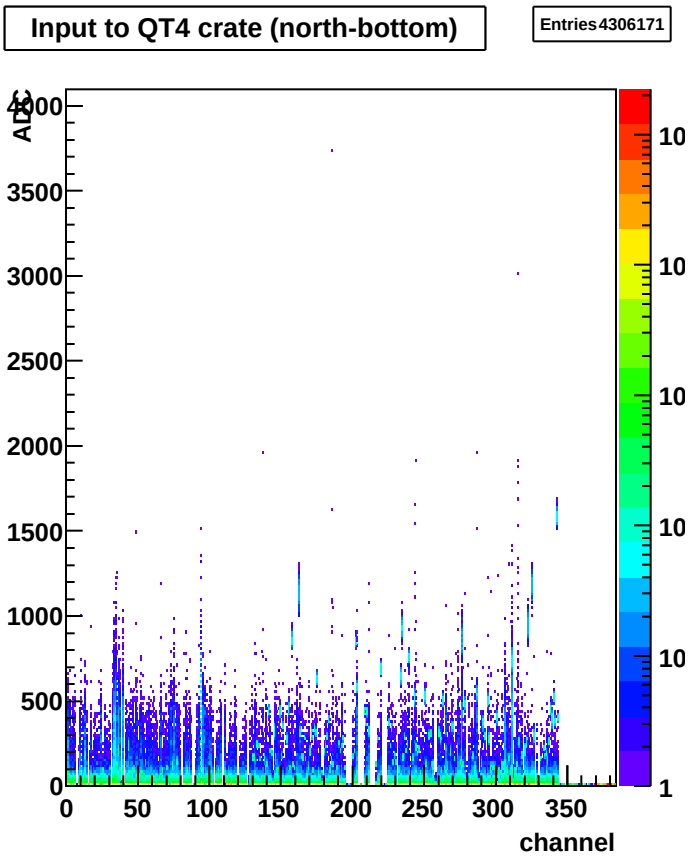

VPD-TAC-W
Entries 279324
Mean 1450
RMS 179.2

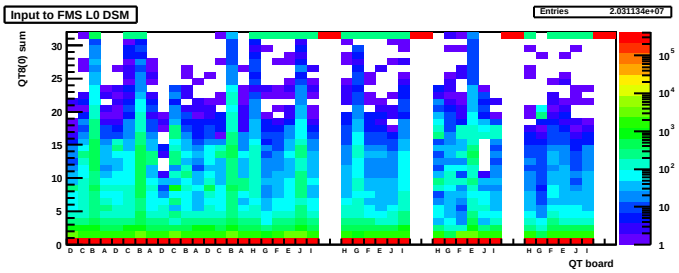

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 228196
Mean 3985
RMS 130.4

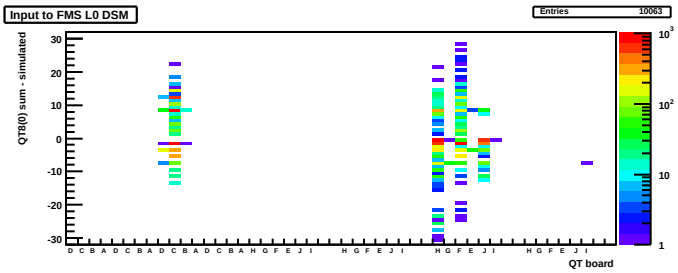

Input to QT1 crate (south-top)
Entries6409390
ADC
channel

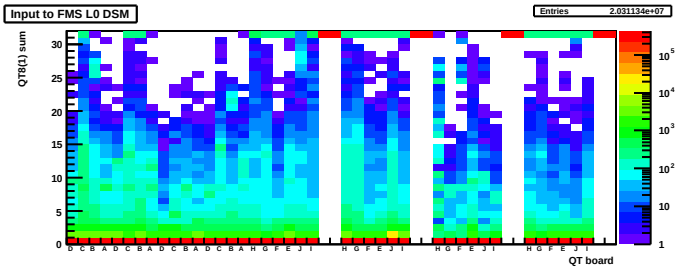

Input to QT3 crate (north-top)
Entries3401389
ADC
channel

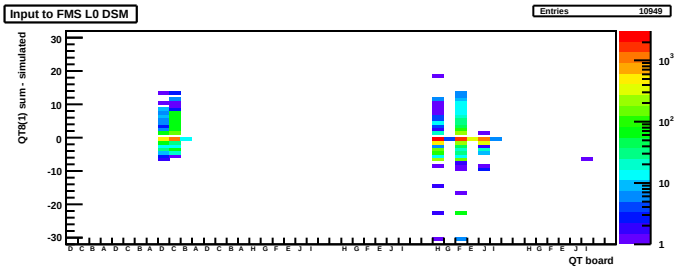

Input to QT2 crate (south-bottom)
Entries3747988
ADC
channel

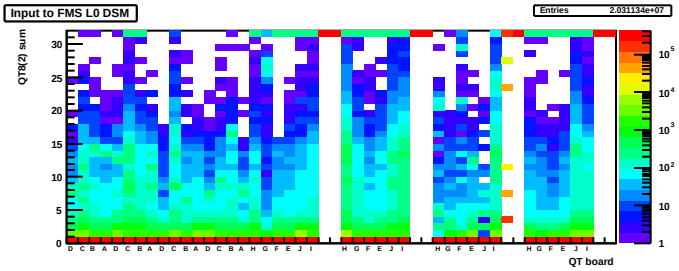

Input to QT4 crate (north-bottom)
Entries4306171
ADC
channel

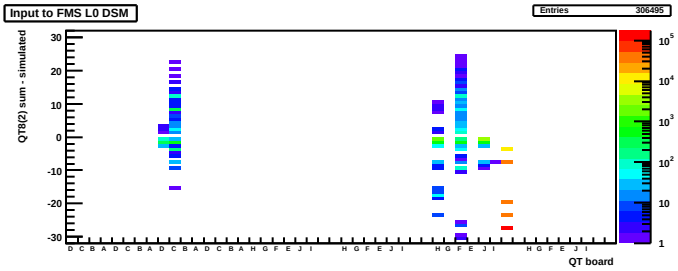

Input to FMS L0 DSM
Entries 2.031134e+07
QT8(0) sum
QT board

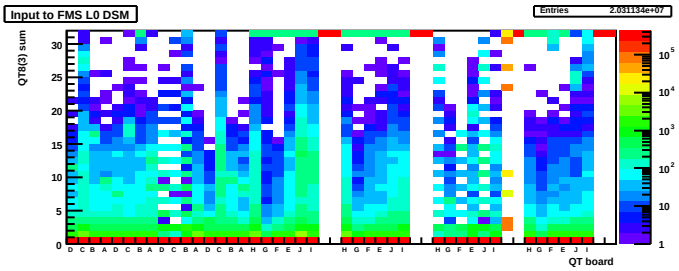

Input to FMS L0 DSM
Entries 10063
QT8(0) sum - simulated
QT board

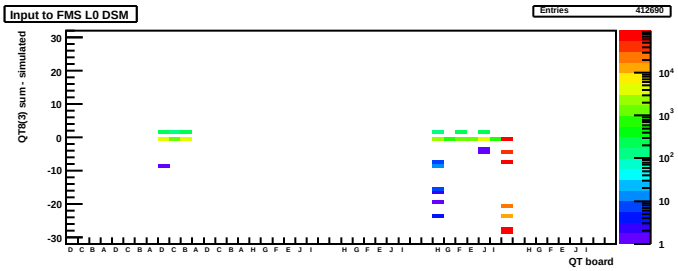

Input to FMS L0 DSM
Entries 2.031134e+07
QT8(1) sum
QT board

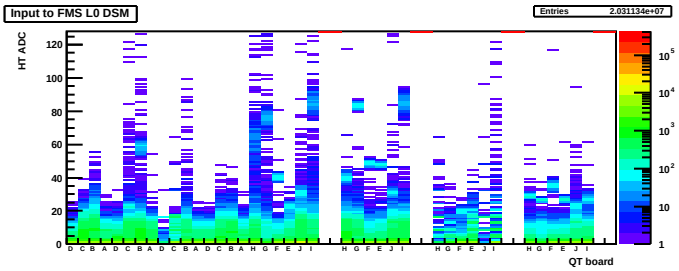

Input to FMS L0 DSM
Entries 10949
QT8(1) sum - simulated
QT board

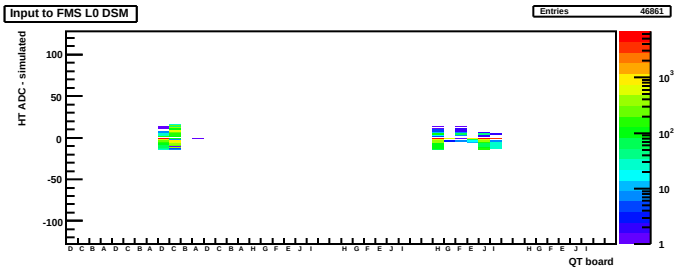

Input to FMS L0 DSM
Entries 2.031134e+07
QT8(2) sum
QT board

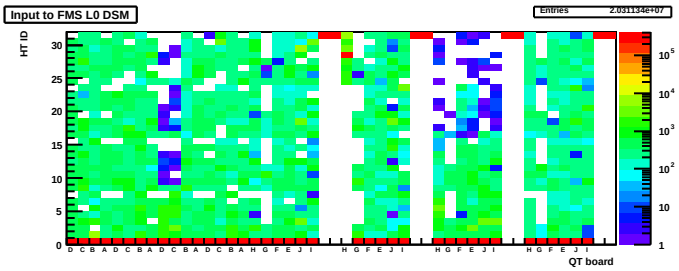

Input to FMS L0 DSM
Entries 306495
QT8(2) sum - simulated
QT board

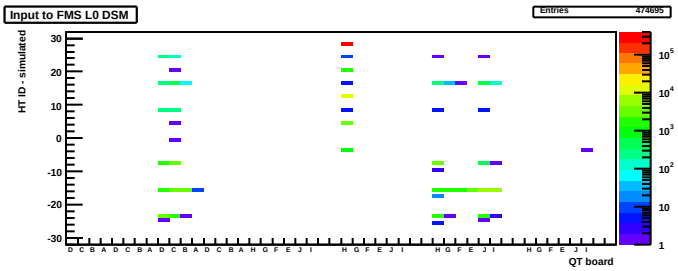

Input to FMS L0 DSM
Entries 2.031134e+07
QT8(3) sum
QT board

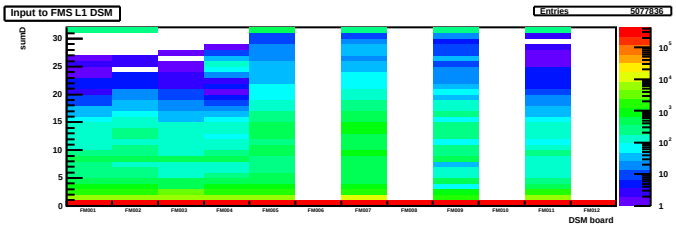

Input to FMS L0 DSM
Entries 412690
QT8(3) sum - simulated
QT board

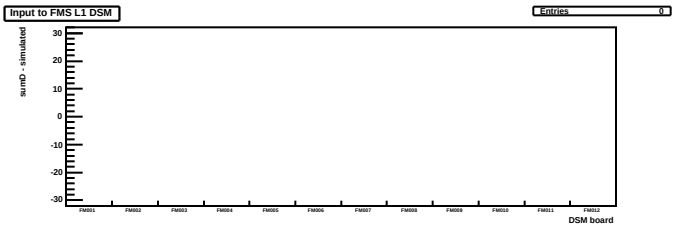

Input to FMS L0 DSM
Entries 2.031134e+07
HT ADC
QT board

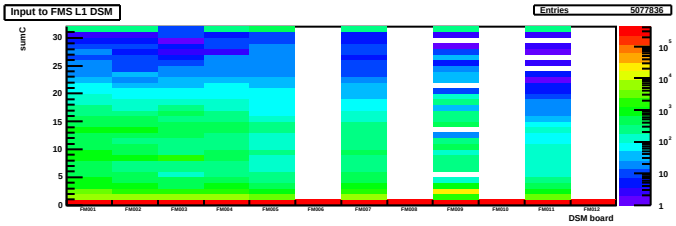

Input to FMS L0 DSM
Entries 46861
HT ADC - simulated
QT board

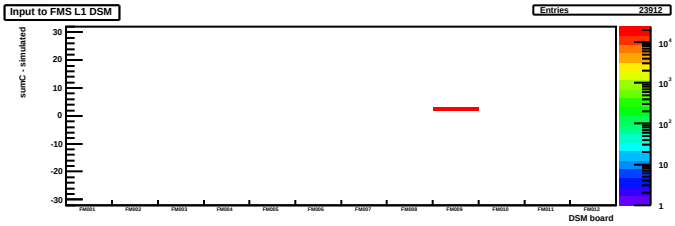

Input to FMS L0 DSM
Entries 2.031134e+07
HT ID
QT board

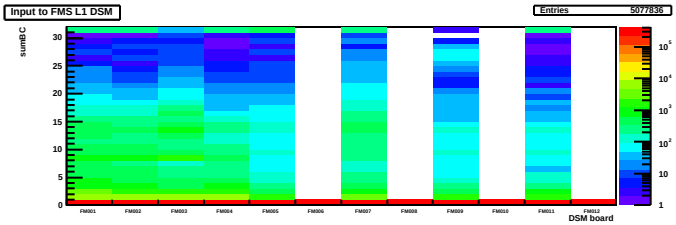

Input to FMS L0 DSM
Entries 474695
HT ID - simulated
QT board

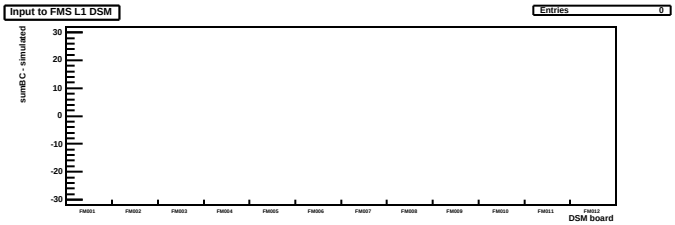

Input to FMS L1 DSM
Entries 5077836
sumD
DSM board

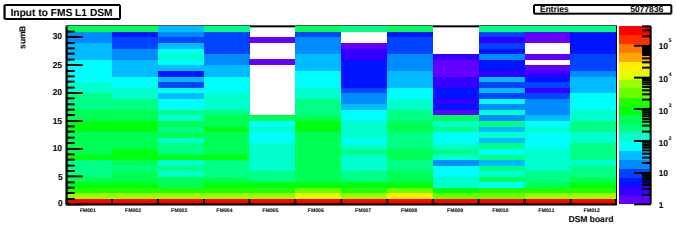

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

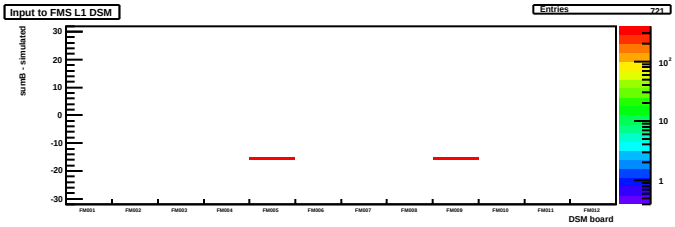

Input to FMS L1 DSM
Entries 5077836
sumC
DSM board

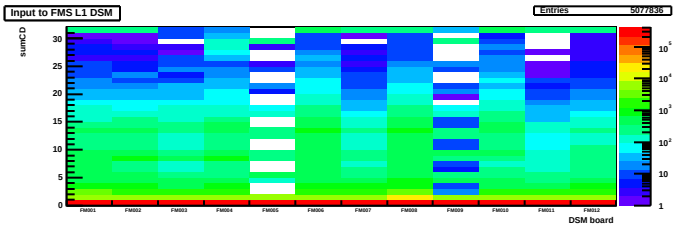

Input to FMS L1 DSM
Entries 23912
sumC - simulated
DSM board

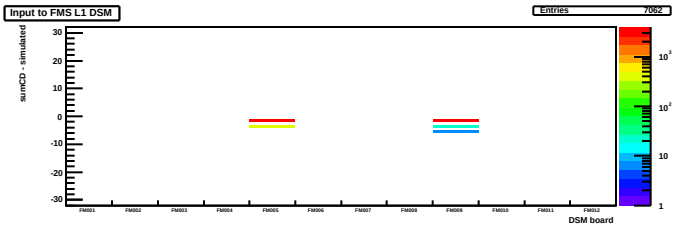

Input to FMS L1 DSM
Entries 5077836
sumBC
DSM board

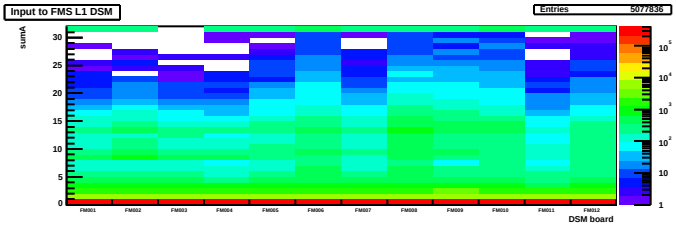

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

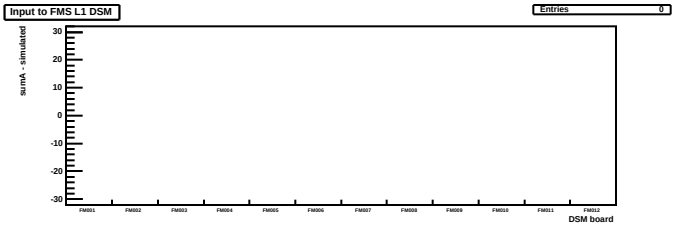

Input to FMS L1 DSM
Entries 5077836
sumB
DSM board

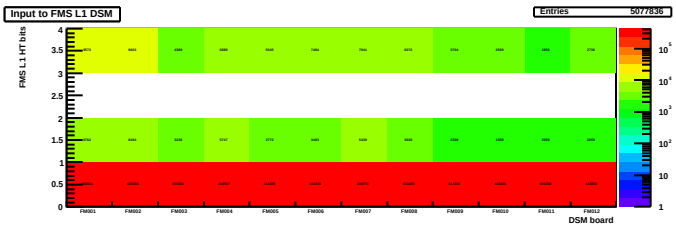

Input to FMS L1 DSM
Entries 721
sumB - simulated
DSM board

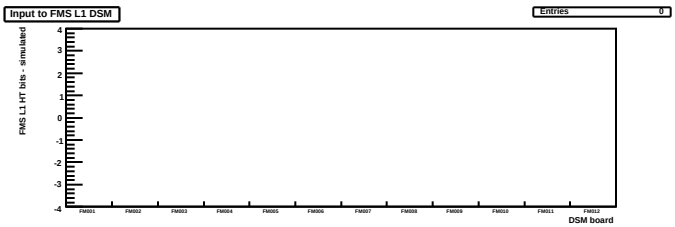

Input to FMS L1 DSM
Entries 5077836
sumCD
DSM board

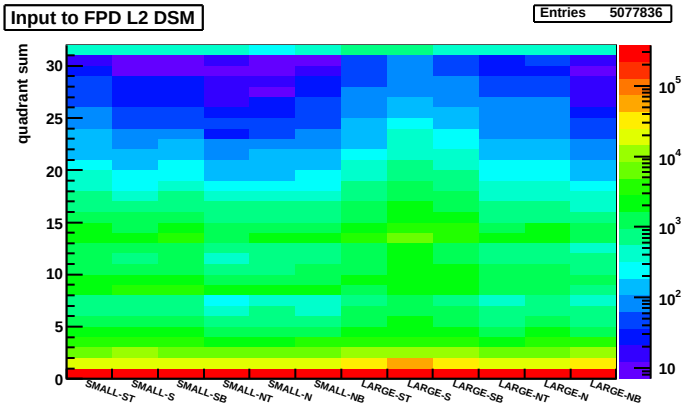

Input to FMS L1 DSM
Entries 7062
sumCD - simulated
DSM board

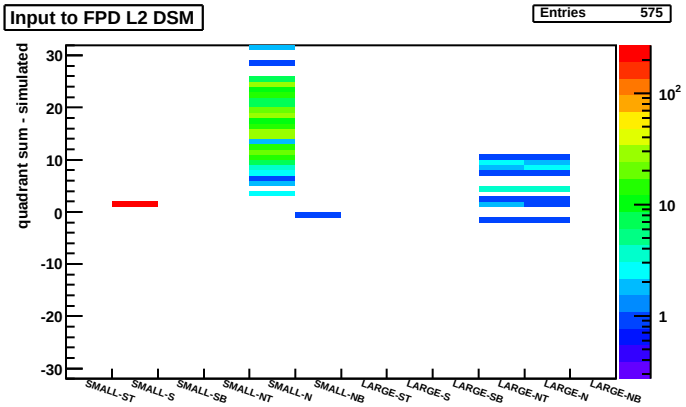

Input to FMS L1 DSM
Entries 5077836
sumA
DSM board

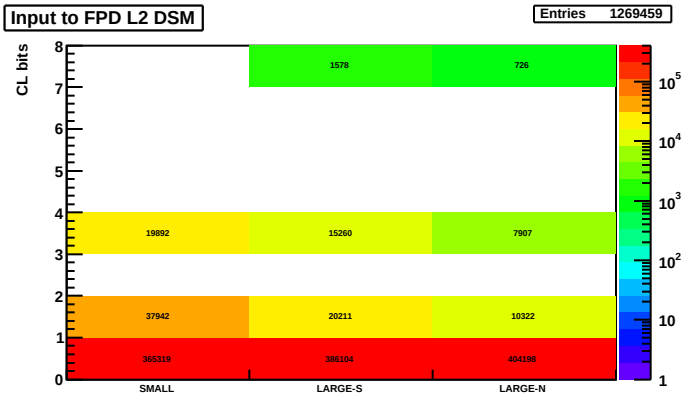

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

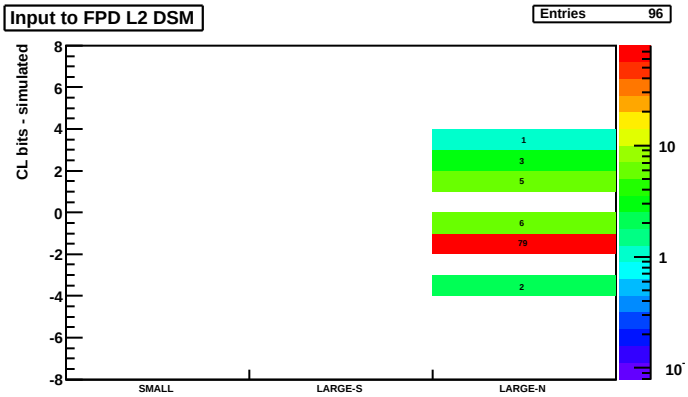

Input to FMS L1 DSM
Entries 5077836
FMS L1 HT bits
DSM board

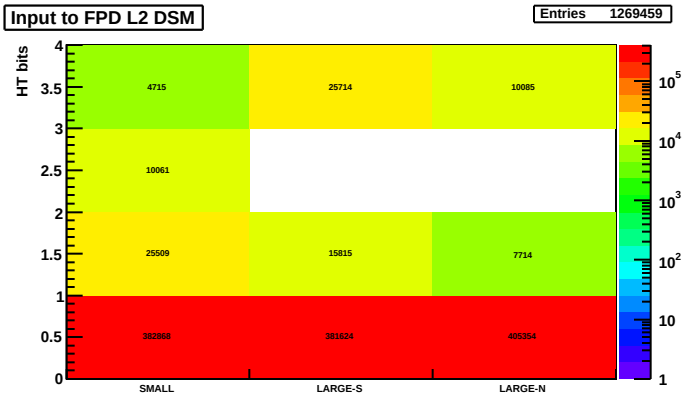

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

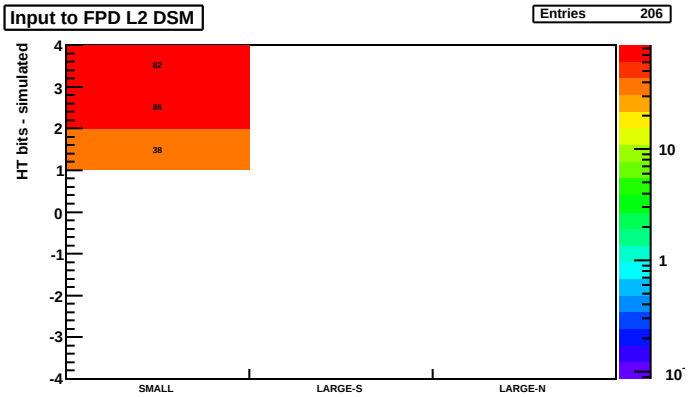

Input to FPD L2 DSM
Entries 5077836
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

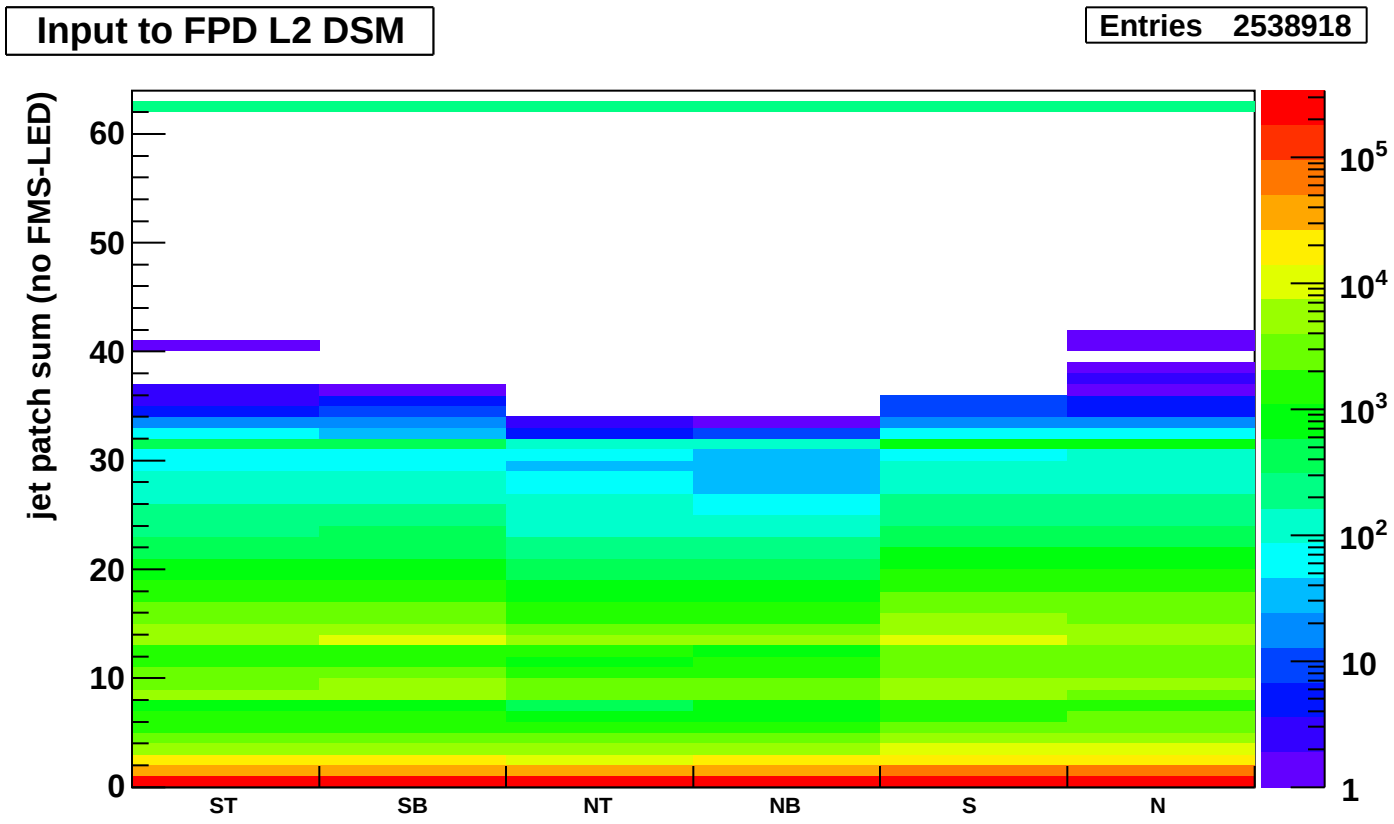

Input to FPD L2 DSM
Entries 575
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

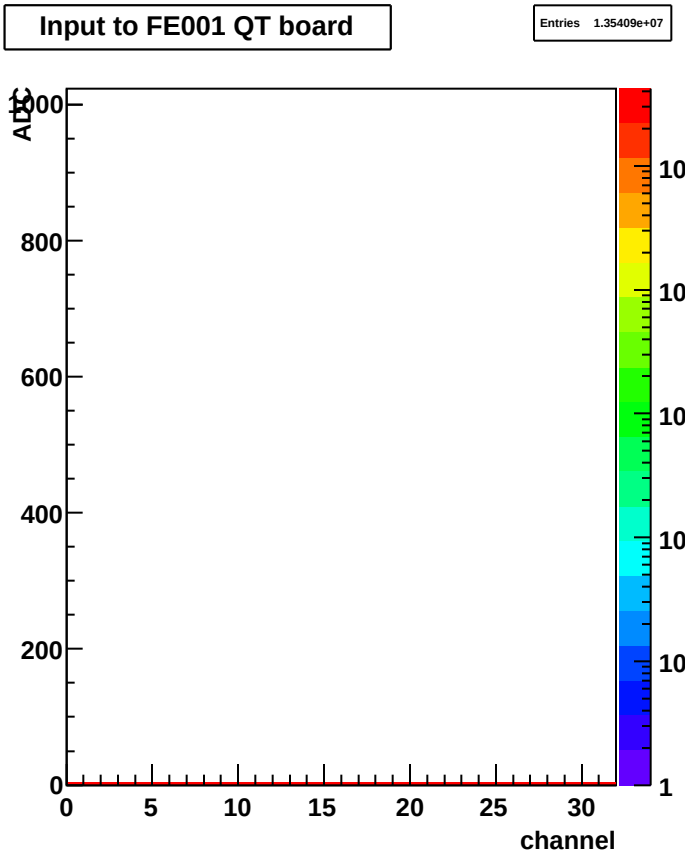

Input to FPD L2 DSM
Entries 1269459
CL bits
1578
726
19892
15260
7907
37942
20211
10322
365319
386104
404198
SMALL
LARGE-S
LARGE-N

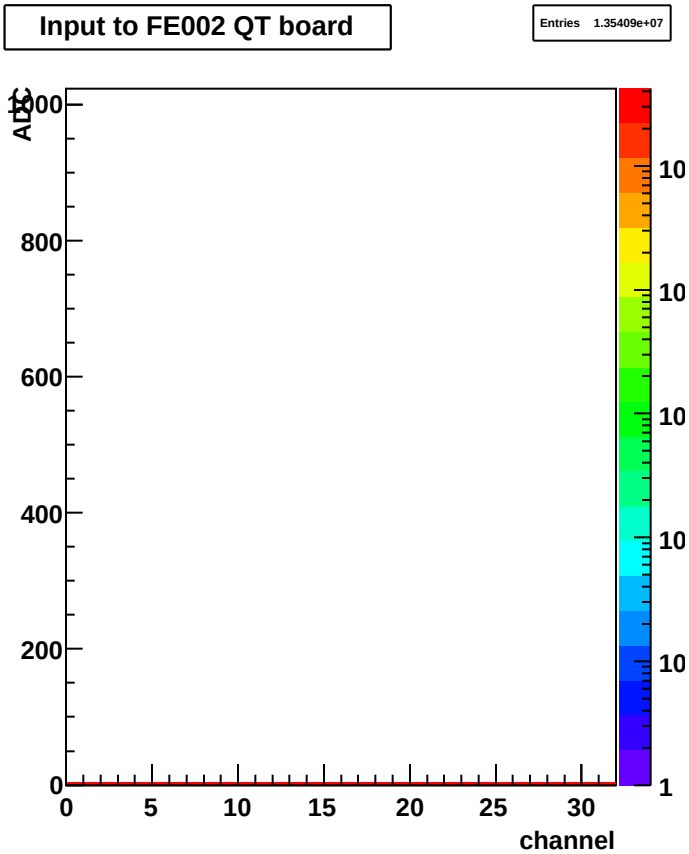

Input to FPD L2 DSM
Entries 96
CL bits - simulated
1
3
5
6
79
2
SMALL
LARGE-S
LARGE-N

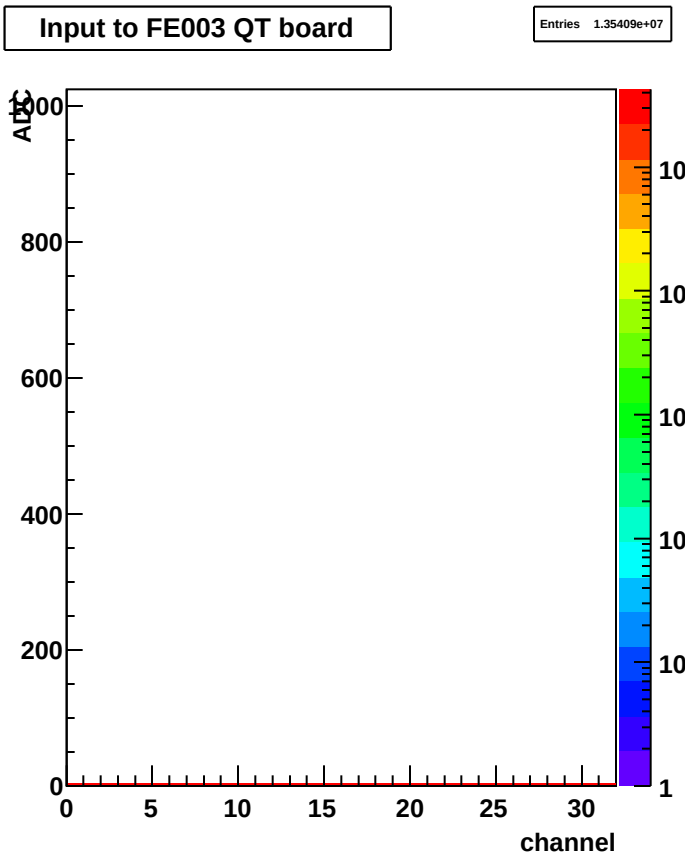

Input to FPD L2 DSM
Entries 1269459
HT bits
4715
25714
10085
10061
25509
15815
7714
382868
381624
405354
SMALL
LARGE-S
LARGE-N

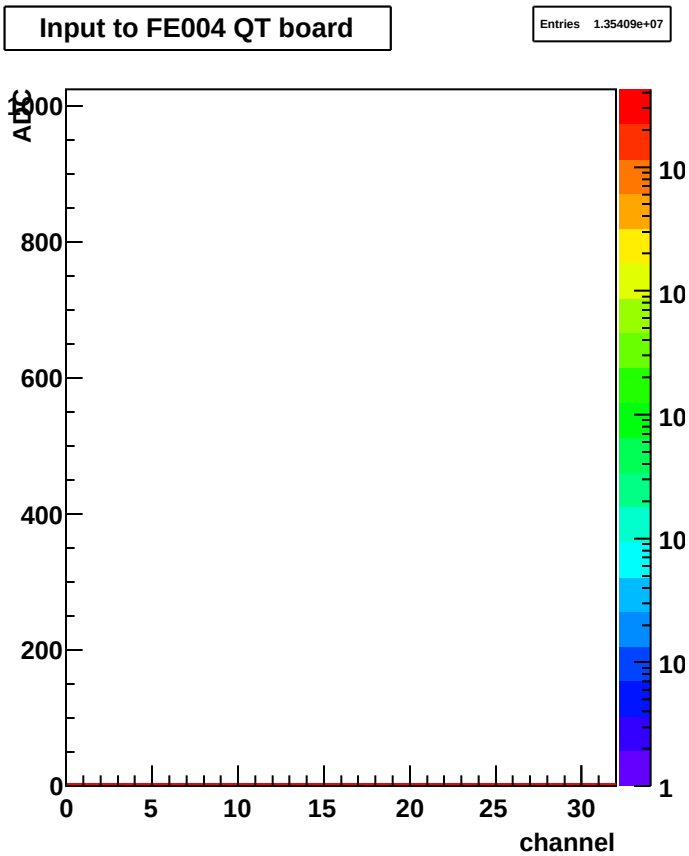

Input to FPD L2 DSM
Entries 206
HT bits - simulated
82
86
38
SMALL
LARGE-S
LARGE-N

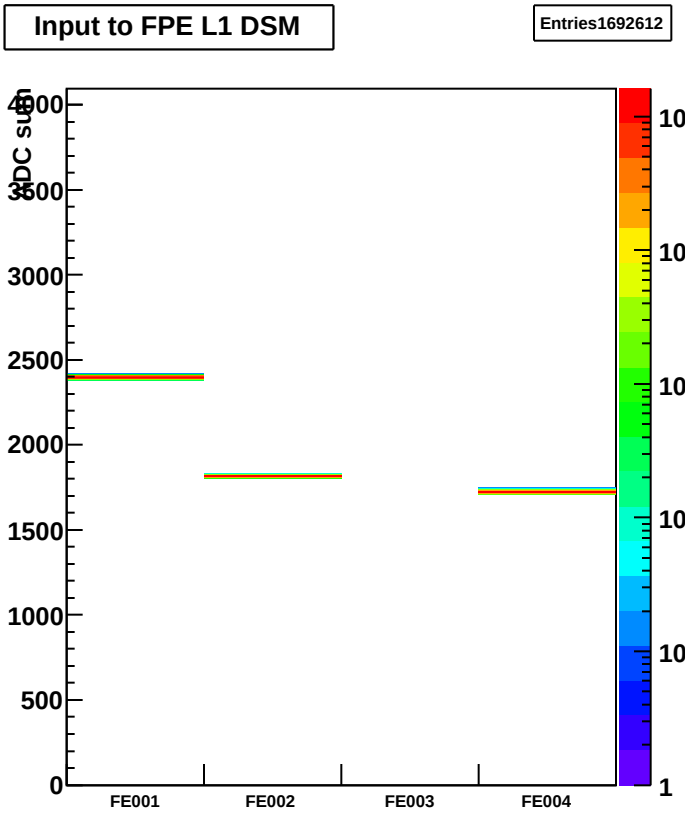

Input to FPD L2 DSM
Entries 2538918
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

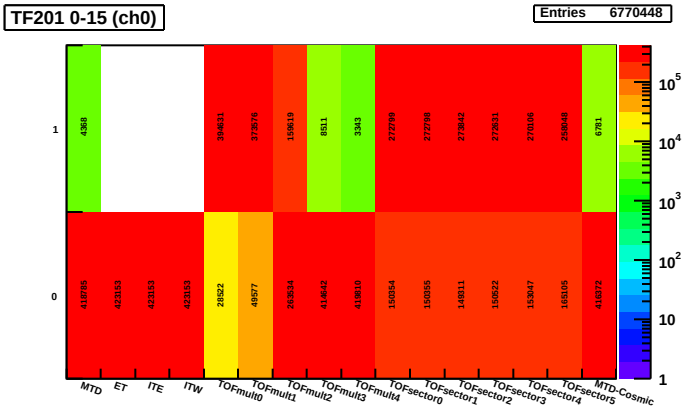

Input to FE001 QT board
Entries 1.35409e+07
ADC
channel

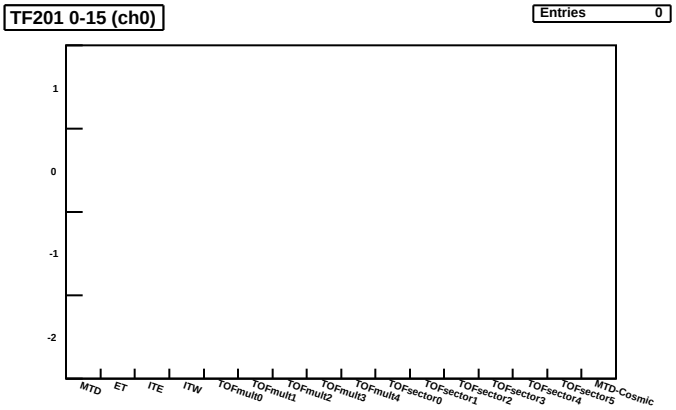

Input to FE002 QT board
Entries 1.35409e+07
ADC
channel

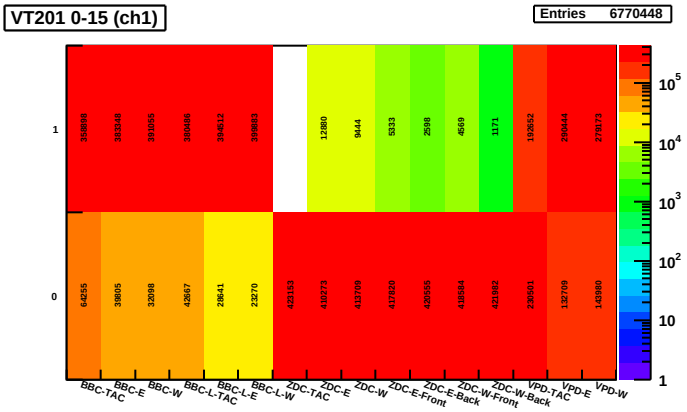

Input to FE003 QT board
Entries 1.35409e+07
ADC
channel

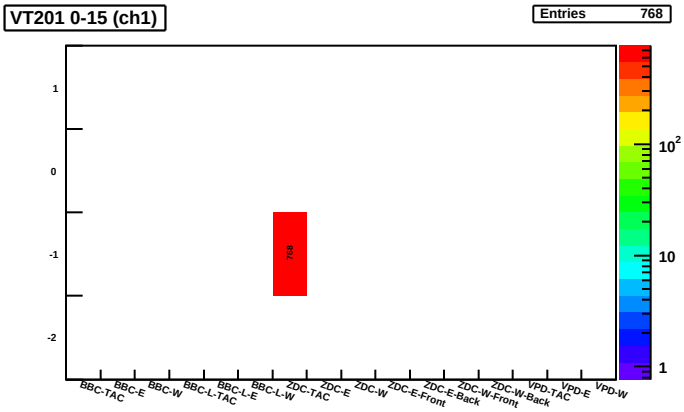

Input to FE004 QT board
Entries 1.35409e+07
ADC
channel

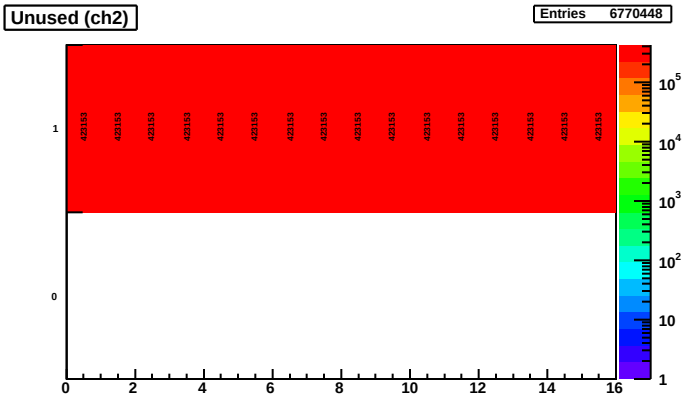

Input to FPE L1 DSM
Entries1692612
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

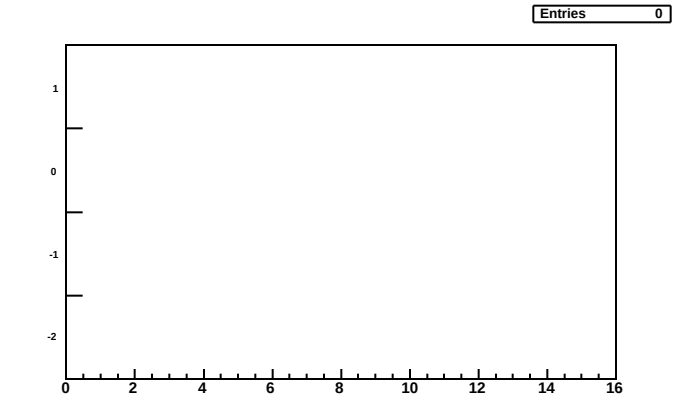

TF201 0-15 (ch0)
Entries 6770448
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 6770448
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 768
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 6770448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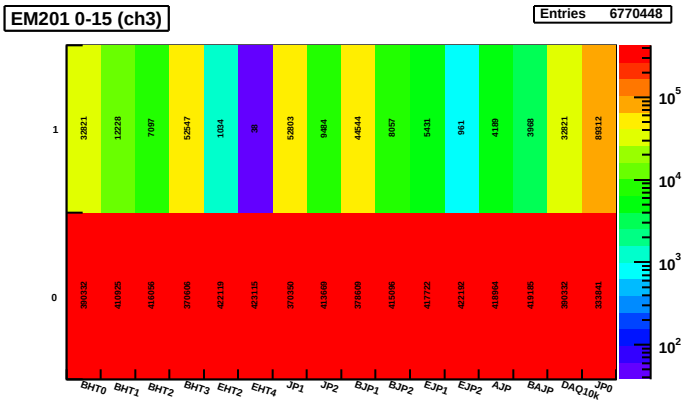
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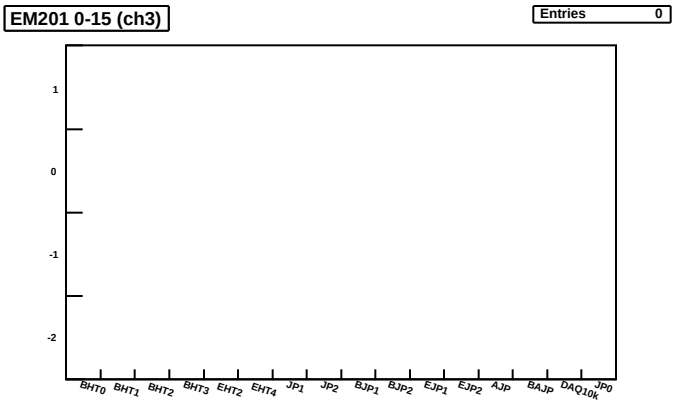
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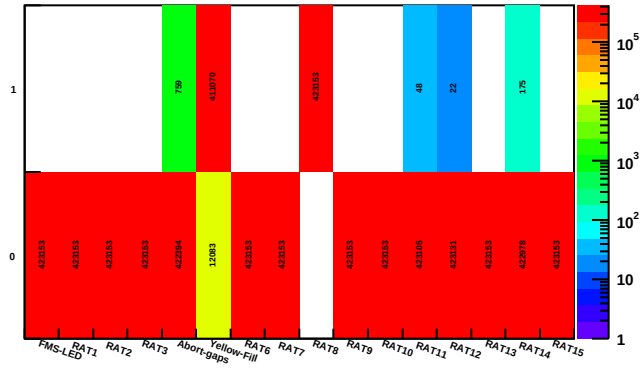
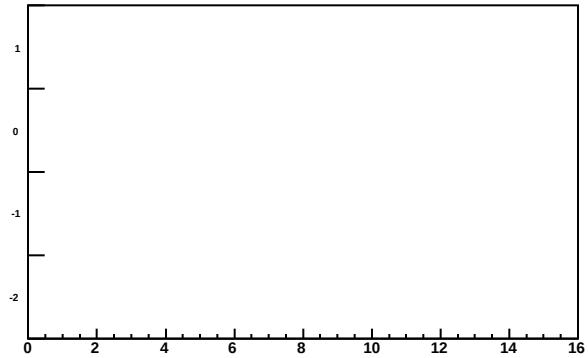
RAT board (ch4)





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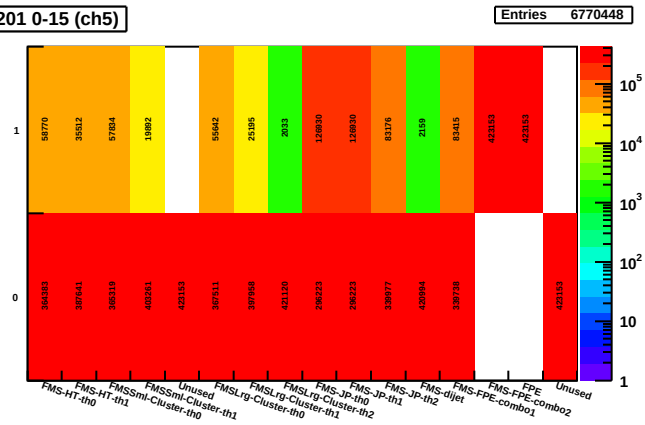

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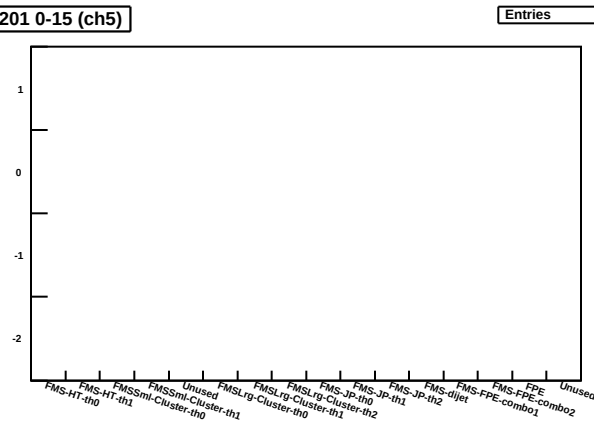

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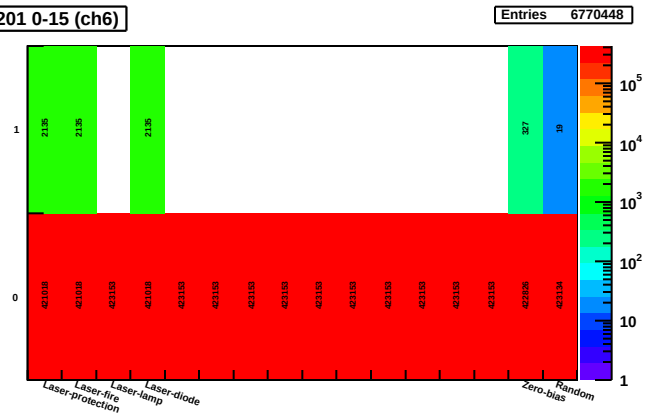

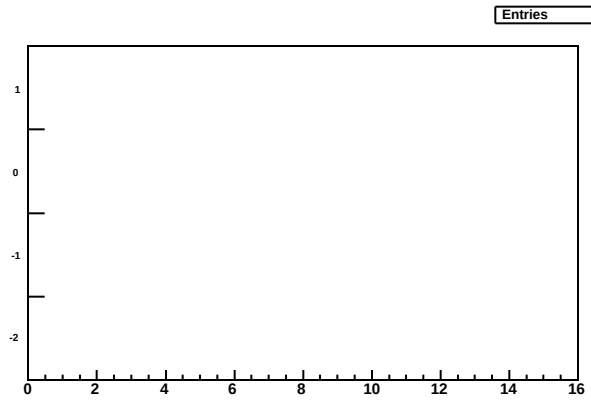
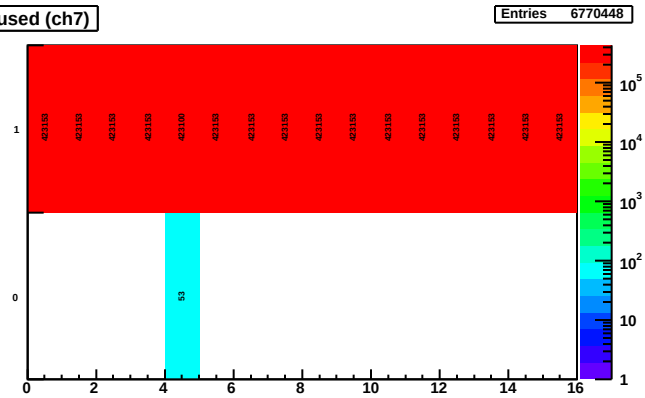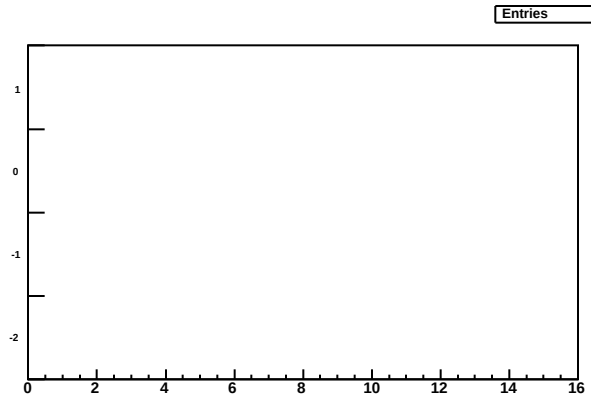
Unused (ch7)