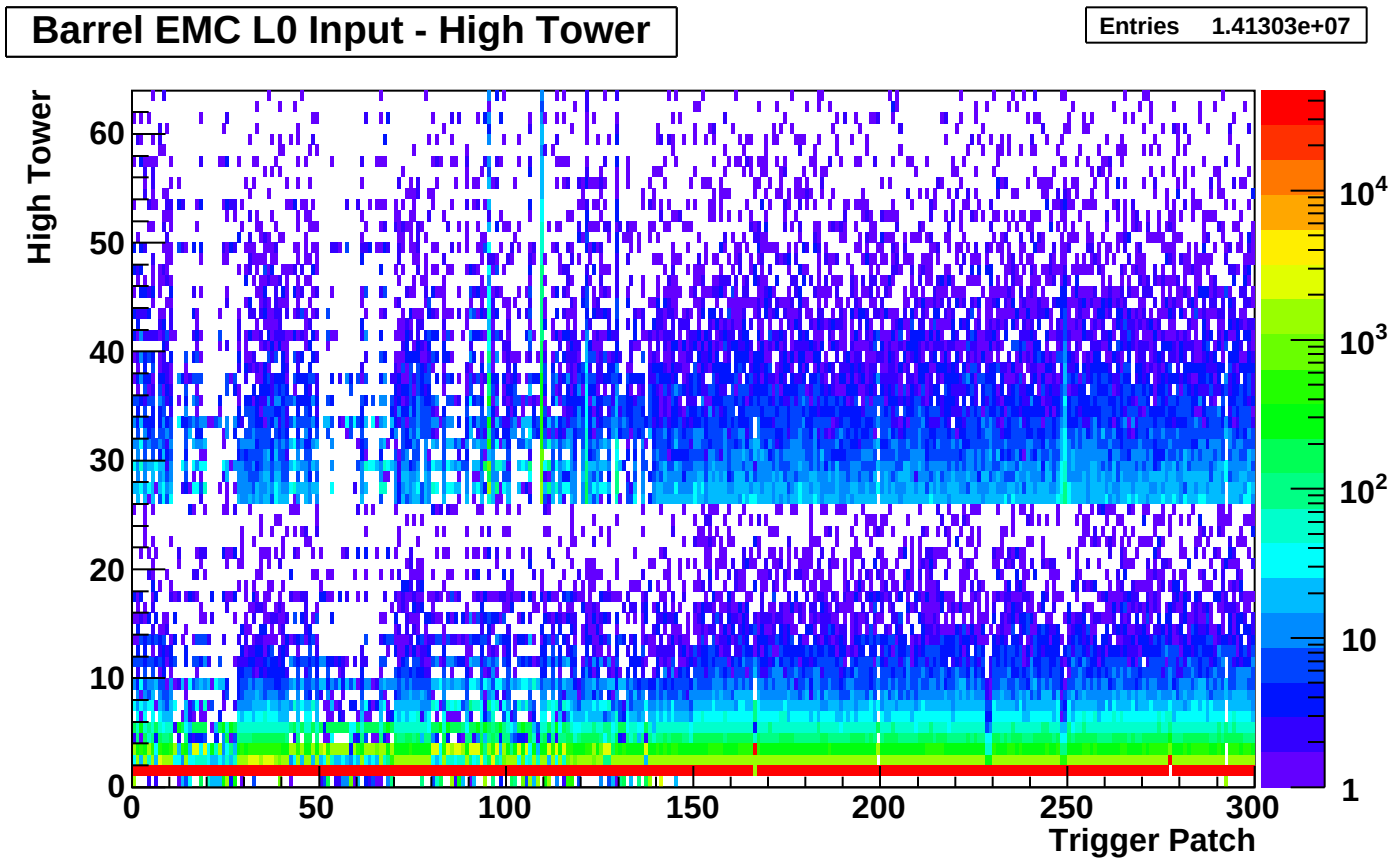
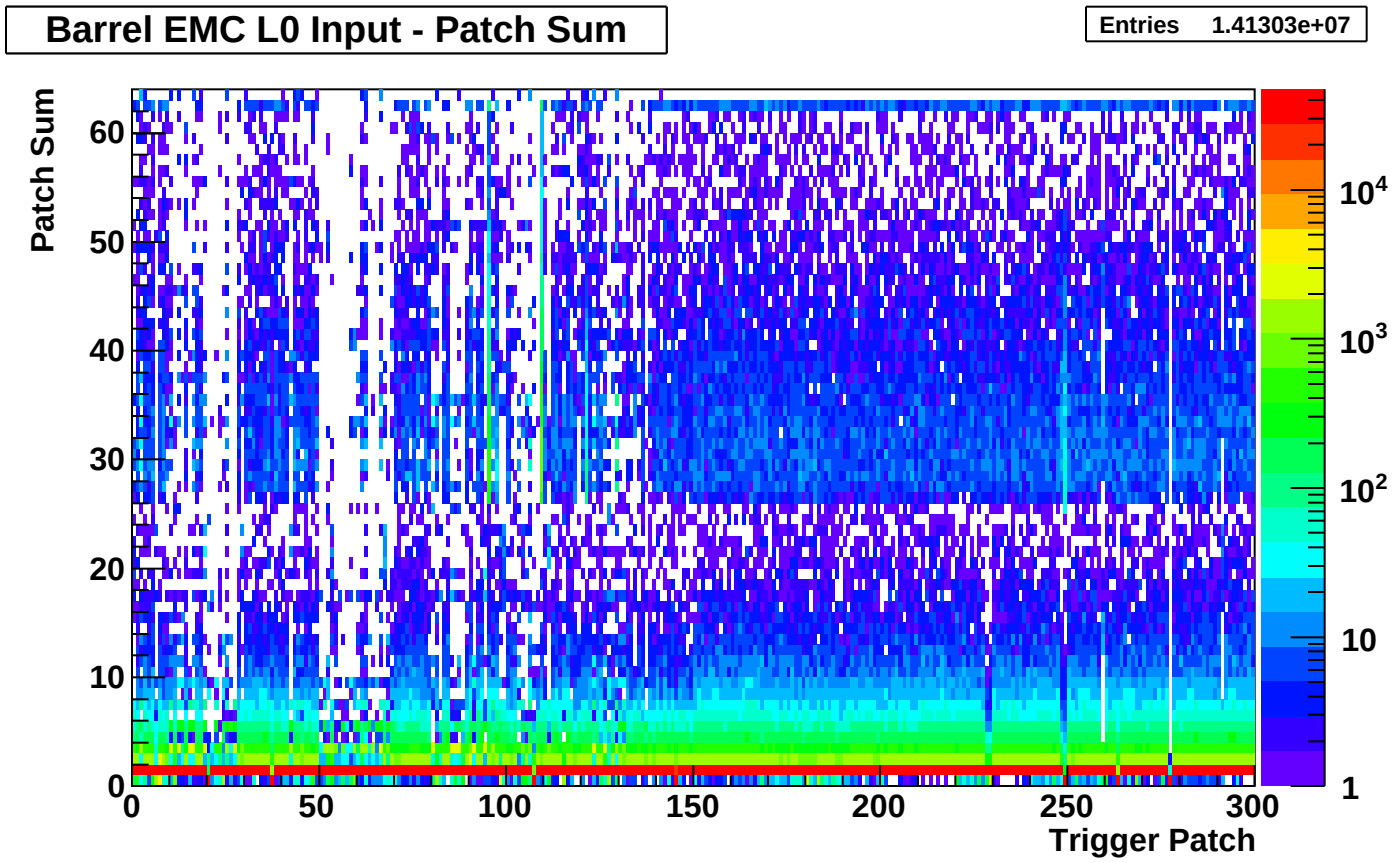
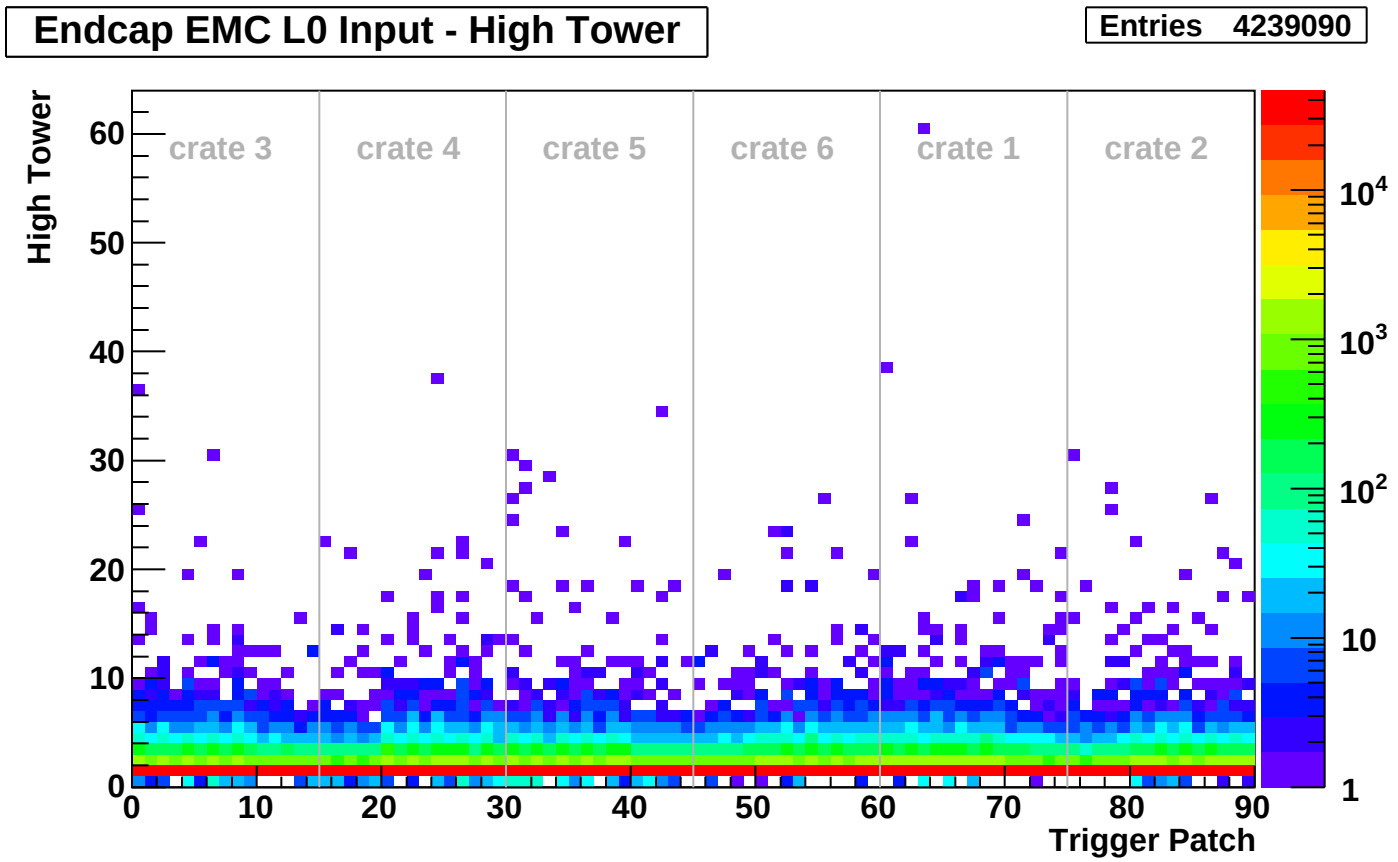
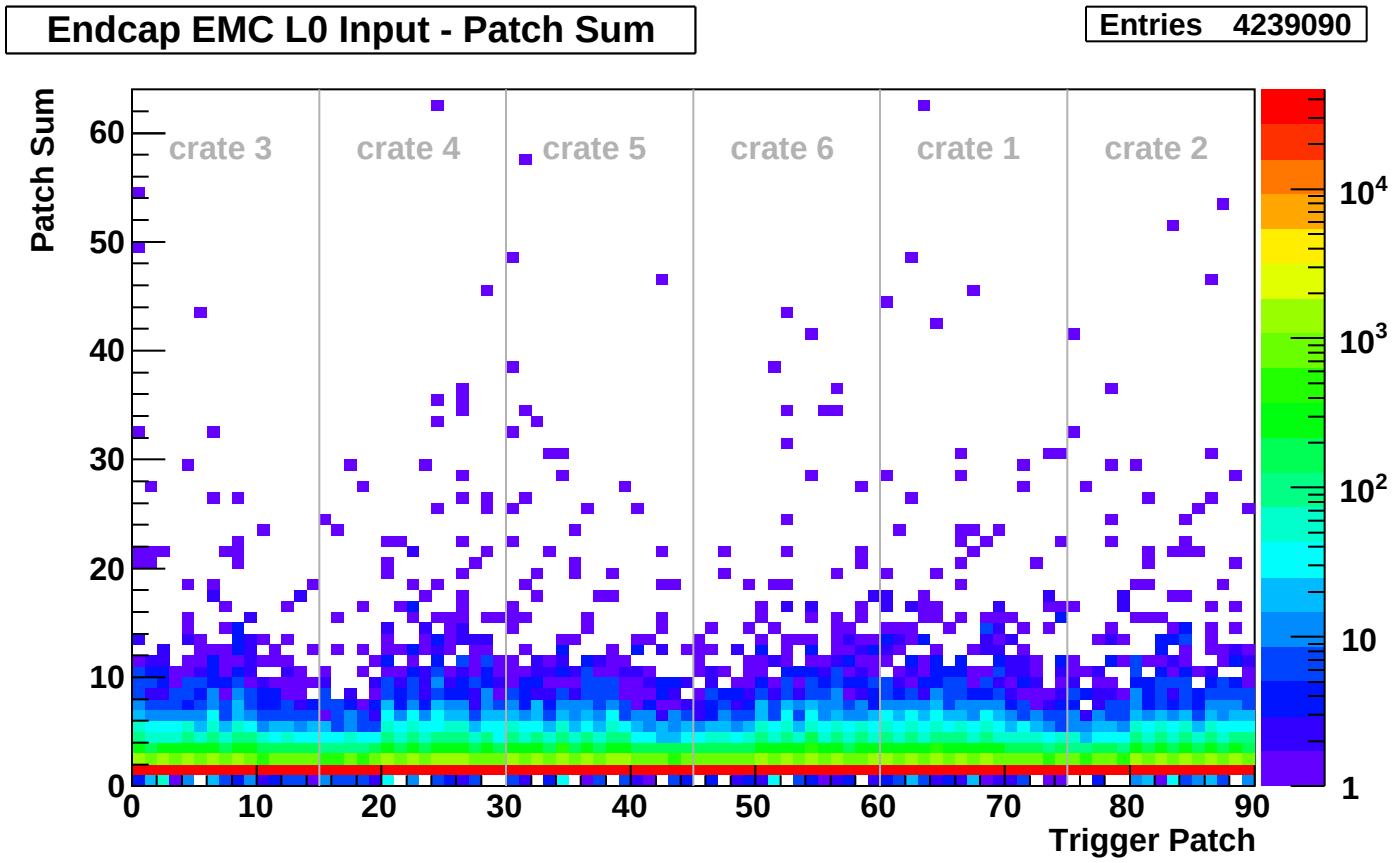
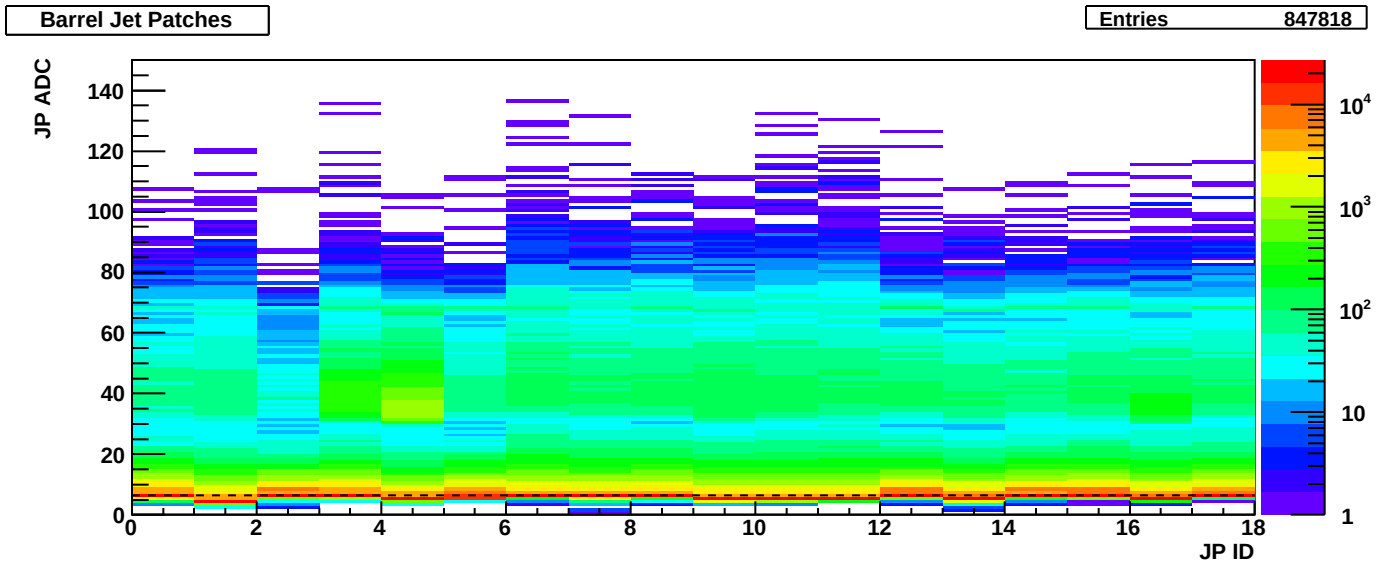
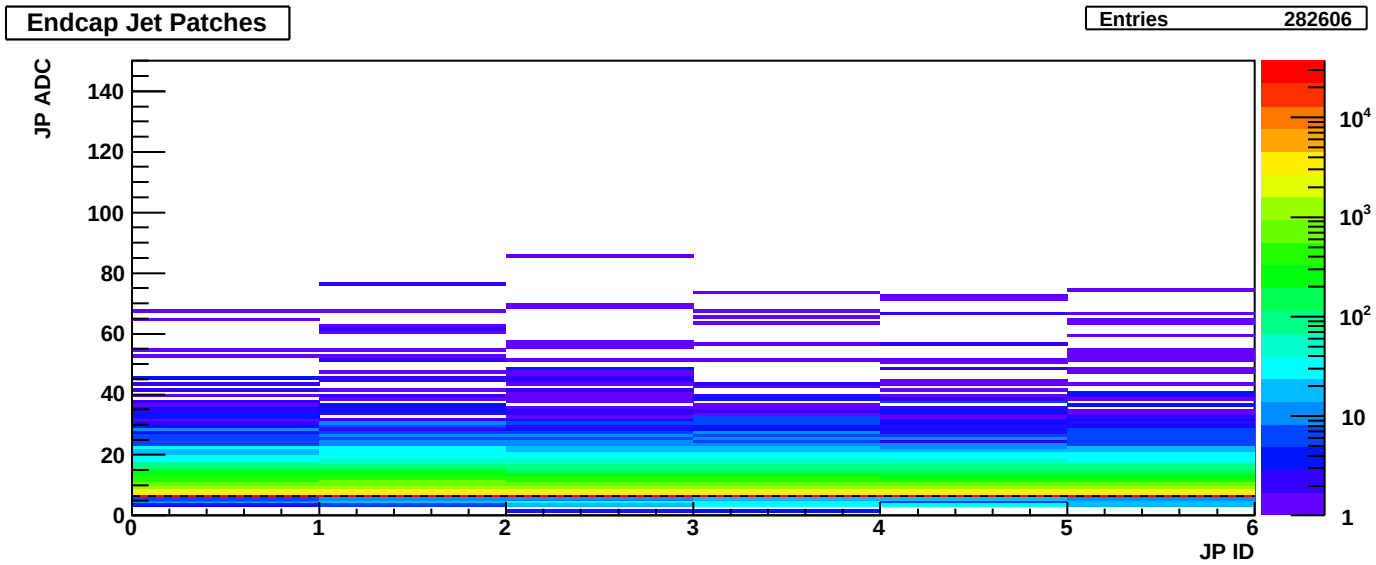

Barrel EMC L0 Input - High Tower
Entries 1.41303e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

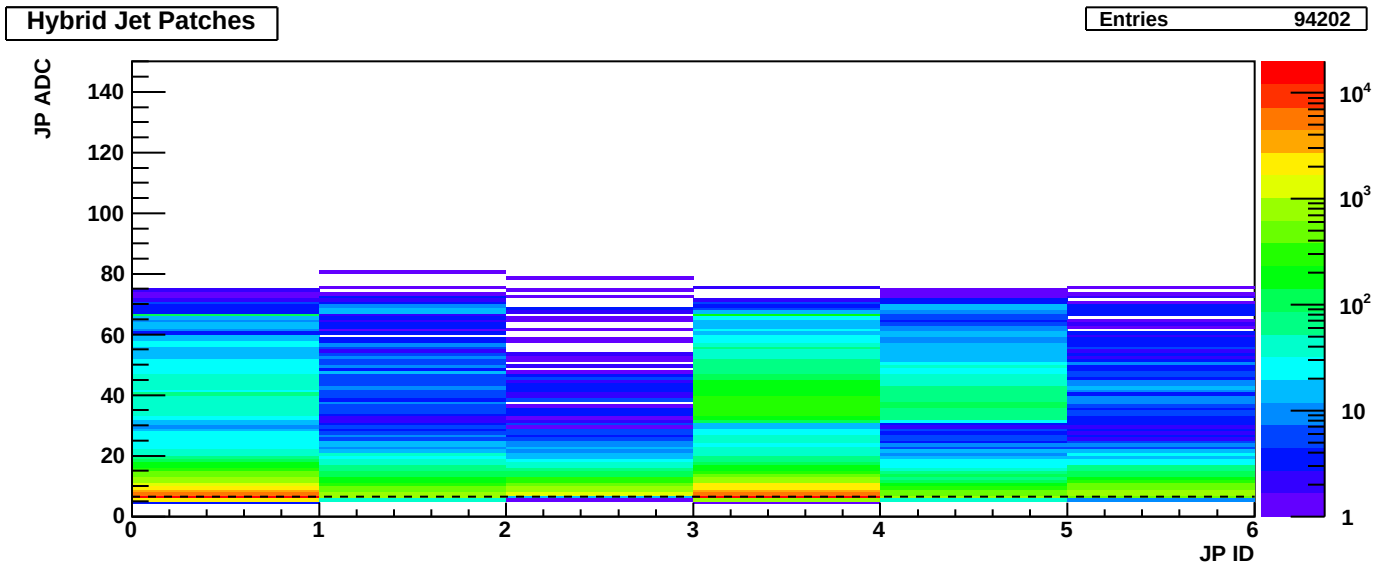

Barrel EMC L0 Input - Patch Sum
Entries 1.41303e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

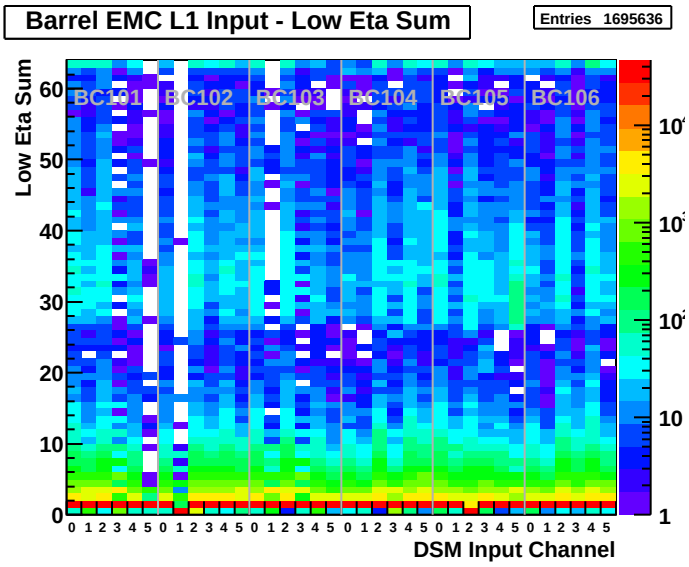

Endcap EMC L0 Input - High Tower
Entries 4239090
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

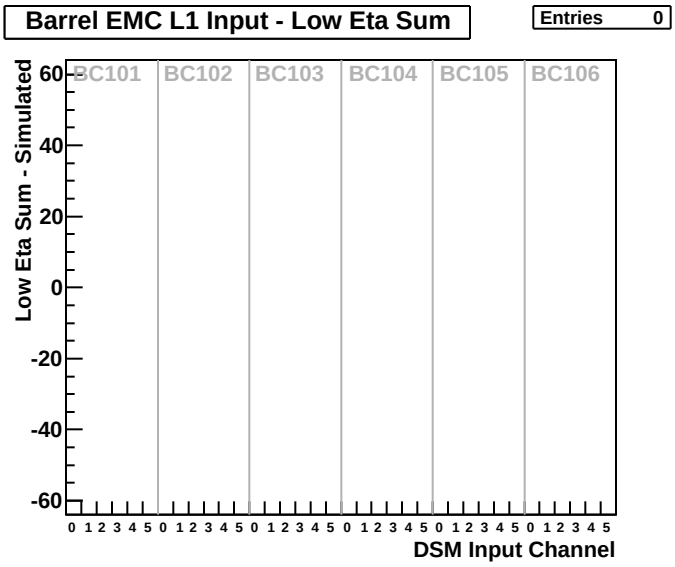

Endcap EMC L0 Input - Patch Sum
Entries 4239090
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

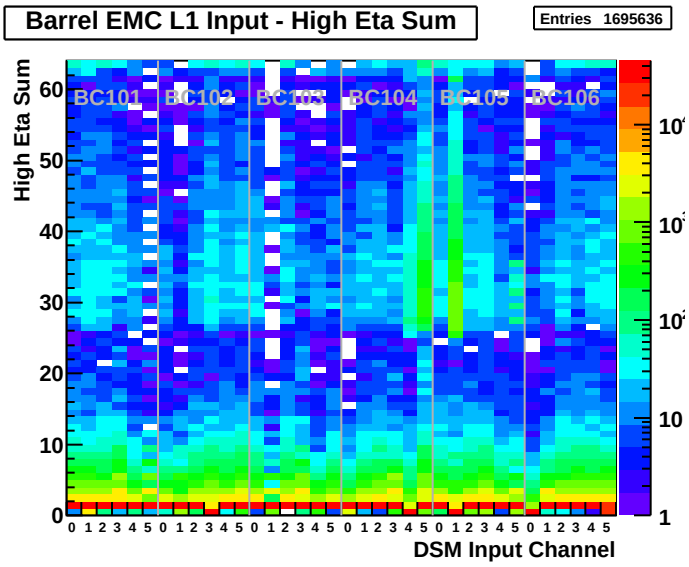

Barrel Jet Patches
Entries 847818
JP ADC
JP ID

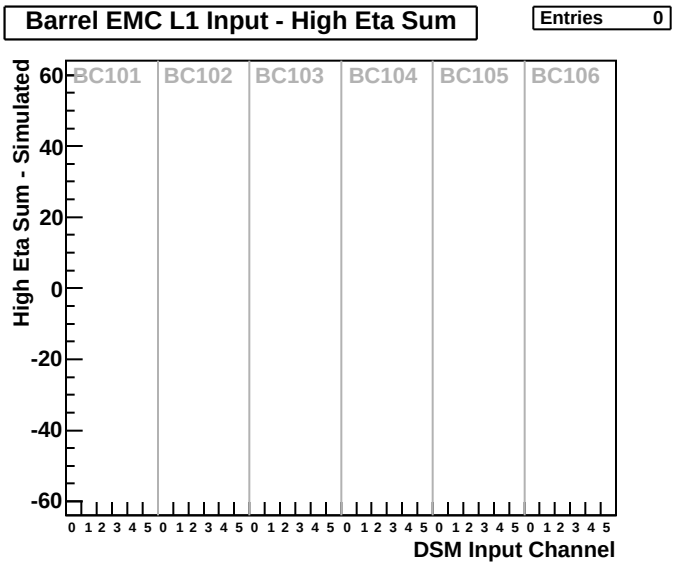

Endcap Jet Patches
Entries 282606
JP ADC
JP ID

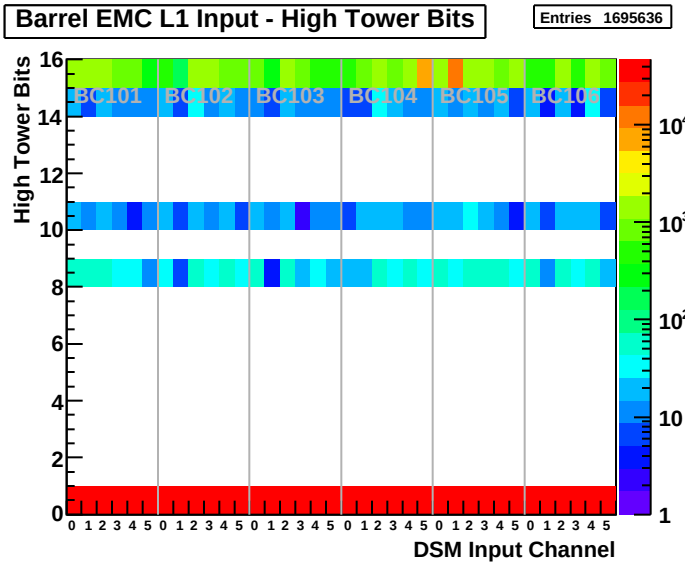

Hybrid Jet Patches
Entries 94202
JP ADC
JP ID

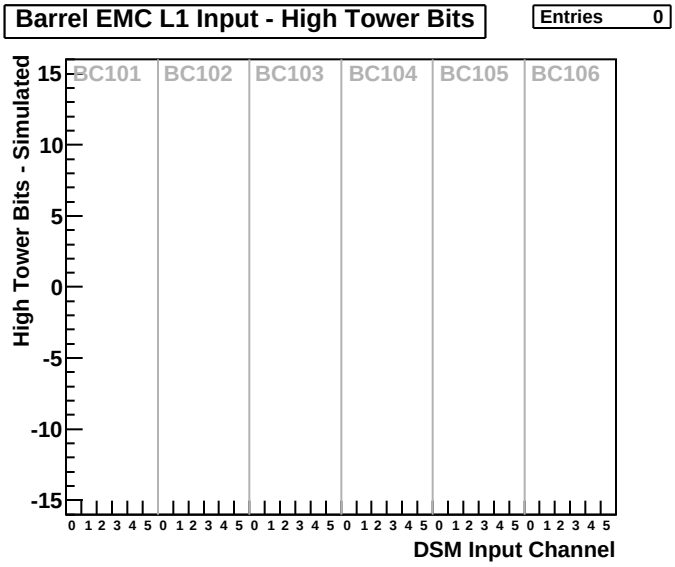

Barrel EMC L1 Input - Low Eta Sum
Entries 1695636
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

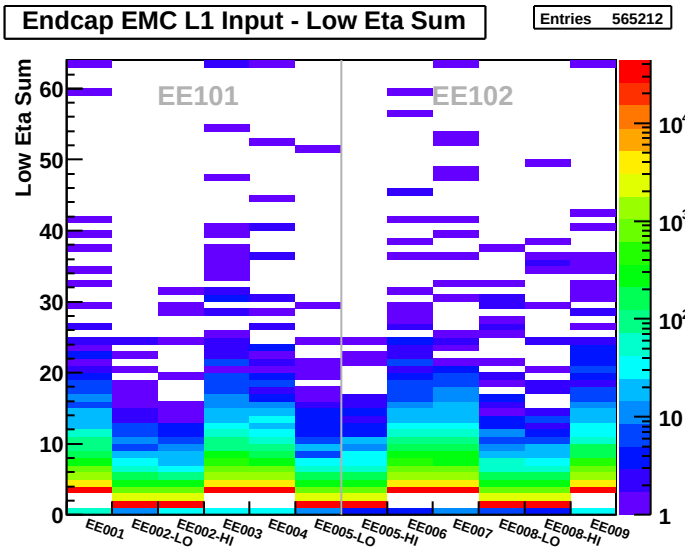

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

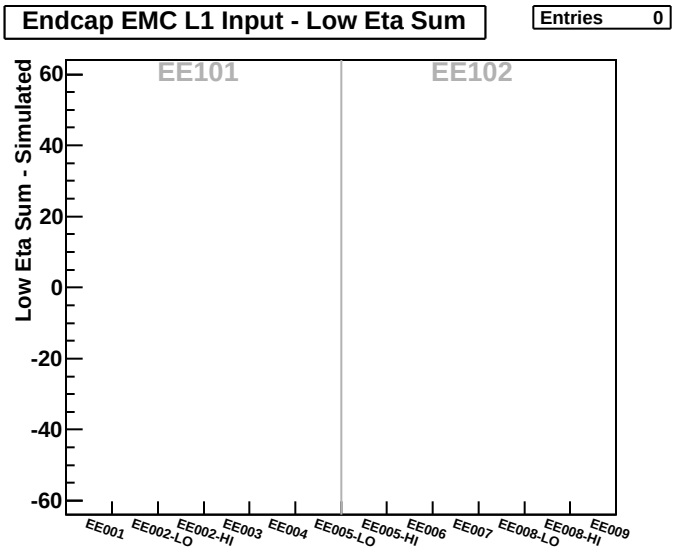

Barrel EMC L1 Input - High Eta Sum
Entries 1695636
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

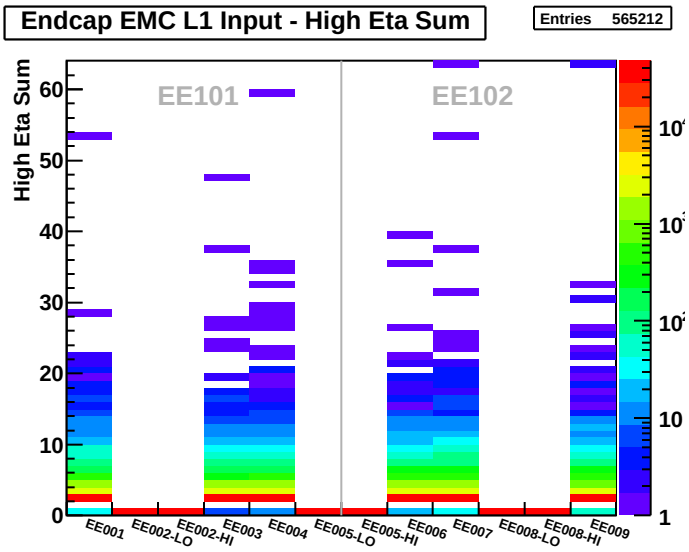

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

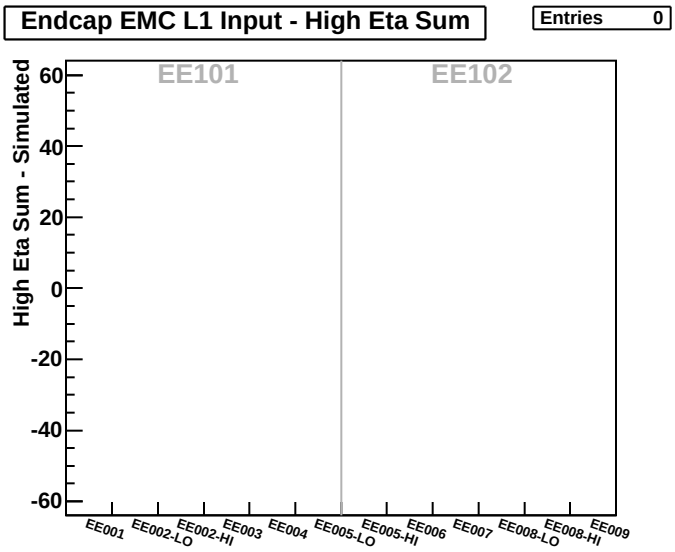

Barrel EMC L1 Input - High Tower Bits
Entries 1695636
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

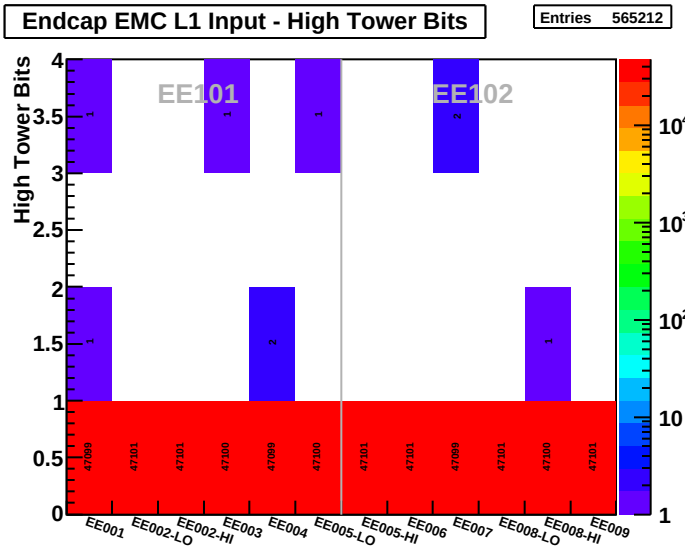

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

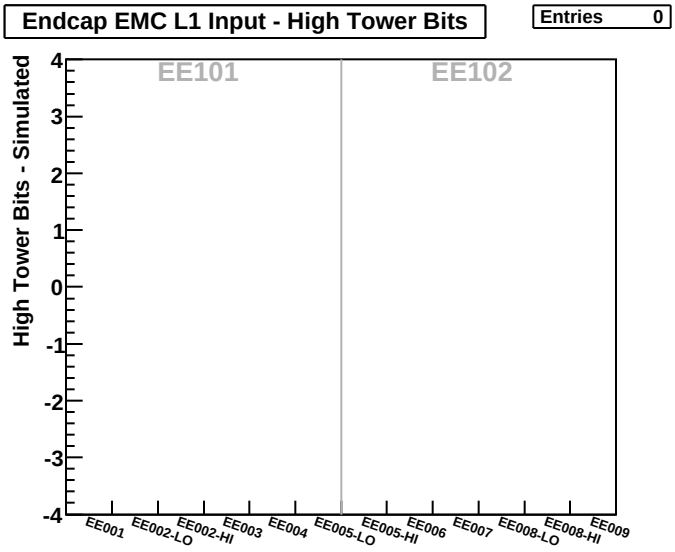

Endcap EMC L1 Input - Low Eta Sum
Entries 565212
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

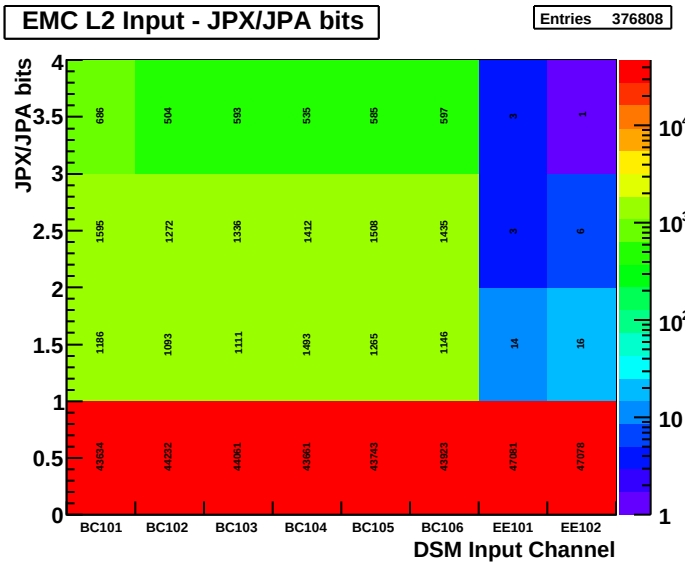

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

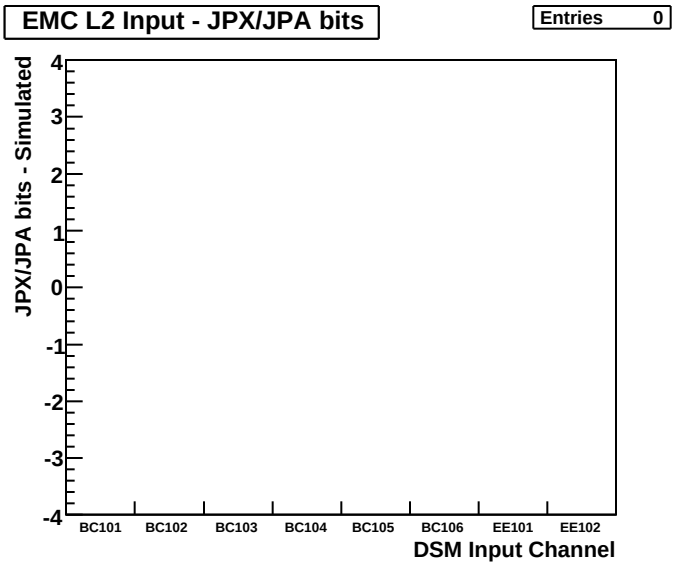

Endcap EMC L1 Input - High Eta Sum
Entries 565212
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

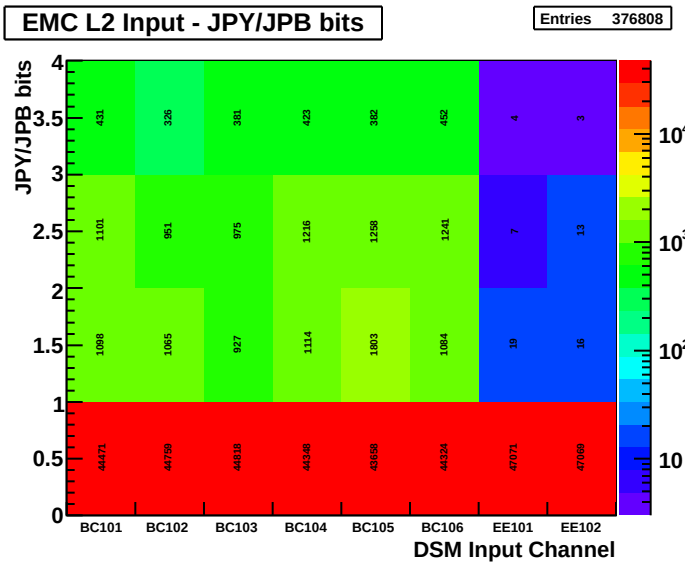

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

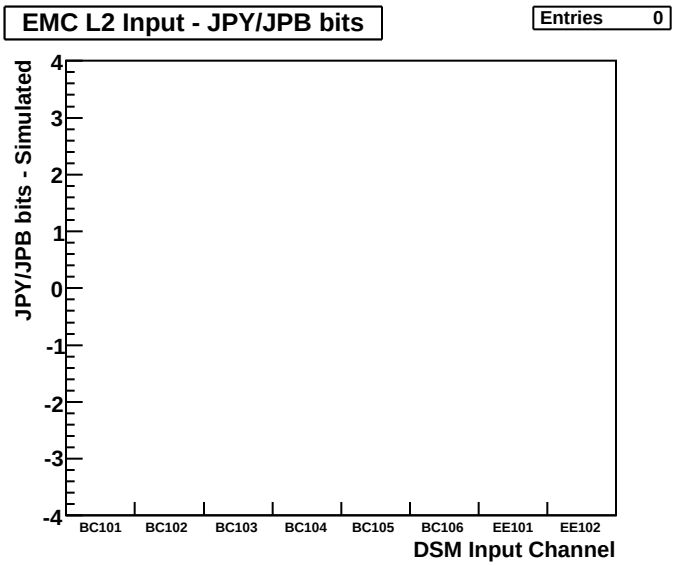

Endcap EMC L1 Input - High Tower Bits
Entries 565212
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

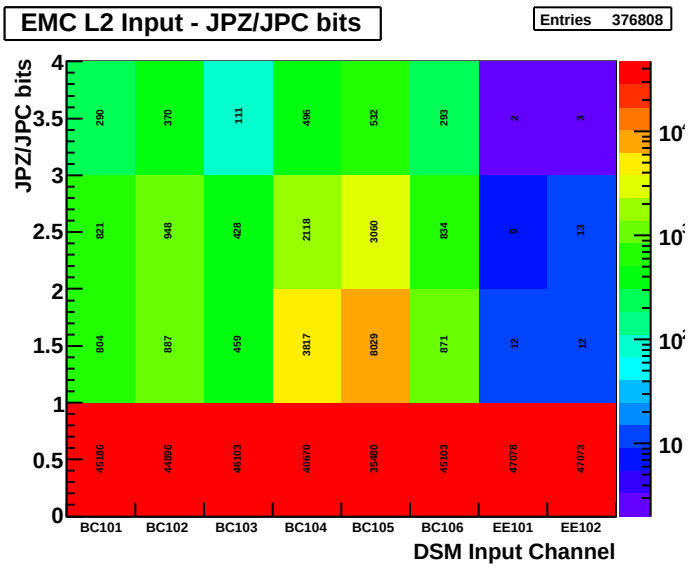

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

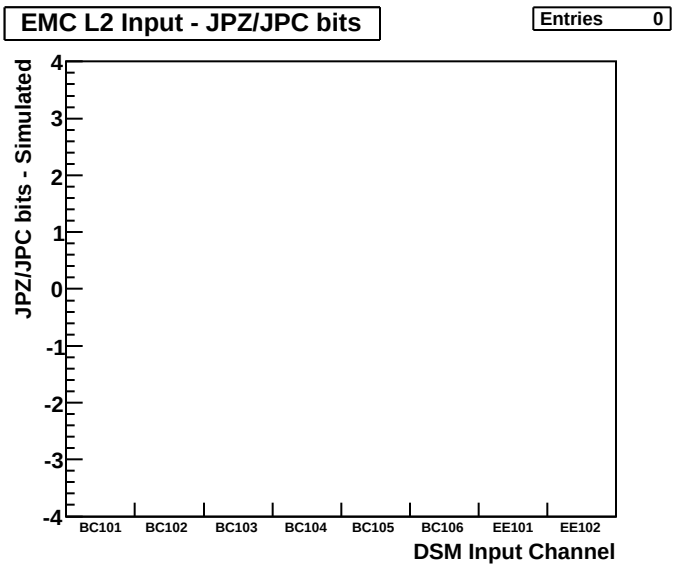

EMC L2 Input - JPX/JPA bits
Entries 376808
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
686 504 593 535 585 597 3 1
1595 1272 1336 1412 1508 1435 3 6
1186 1093 1111 1493 1265 1146 14 16
43634 44232 44061 43661 43743 43923 47081 47078

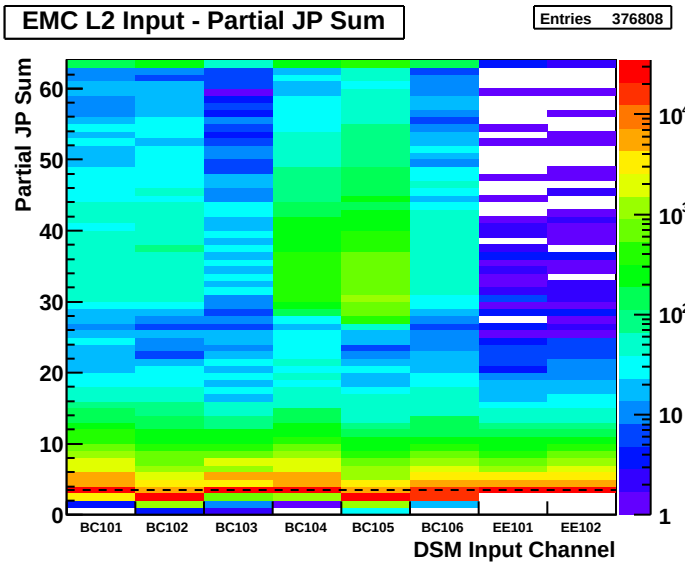

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

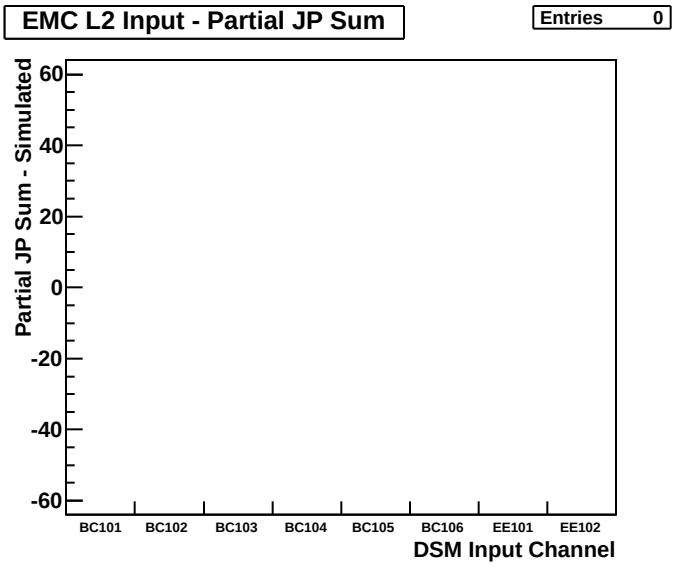

EMC L2 Input - JPY/JPB bits
Entries 376808
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
431 326 381 423 382 452 4 3
1101 951 975 1216 1258 1241 7 13
1098 1065 927 1114 1803 1084 19 16
44471 44759 44818 44348 43658 44324 47071 47069

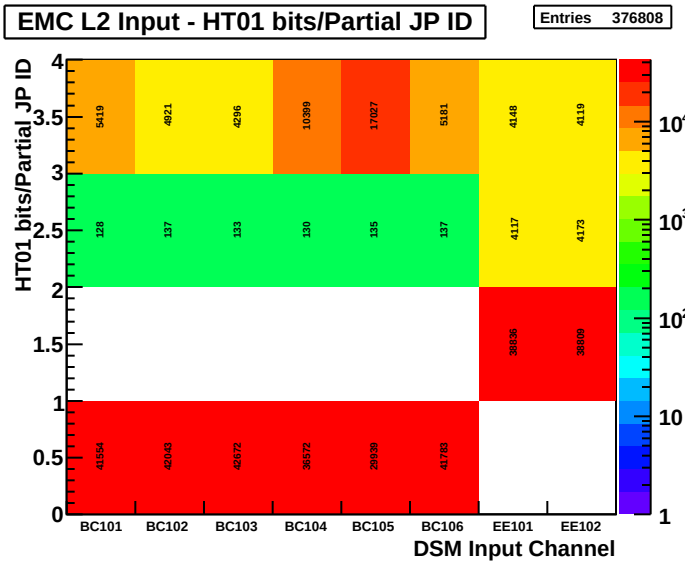

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

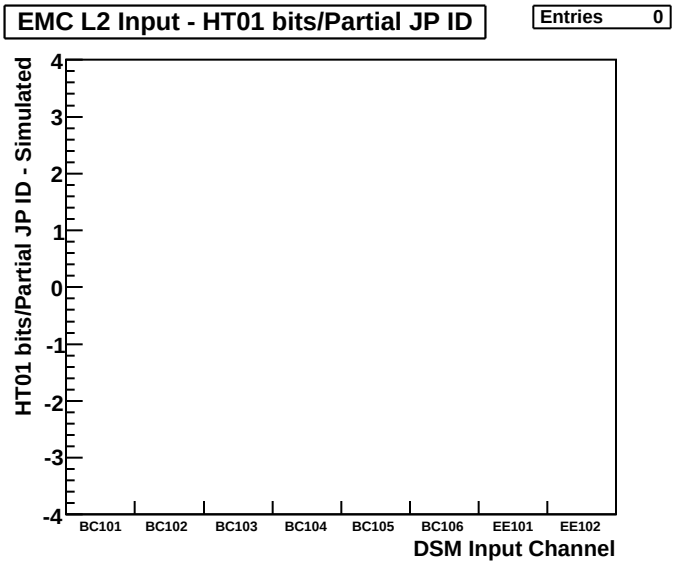

EMC L2 Input - JPZ/JPC bits
Entries 376808
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
290 370 111 496 532 293 2 3
821 948 428 2118 3060 834 9 13
804 887 459 3817 8029 871 12 12
45186 44886 46103 40670 35480 45103 47078 47073

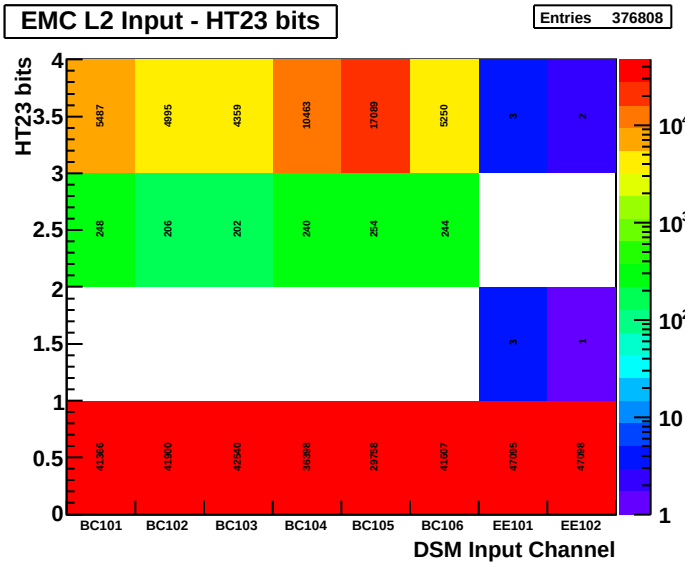

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

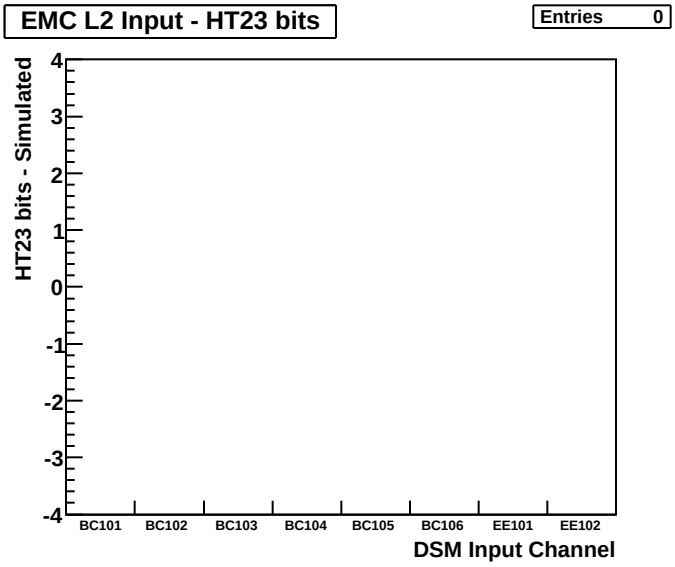

EMC L2 Input - Partial JP Sum
Entries 376808
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

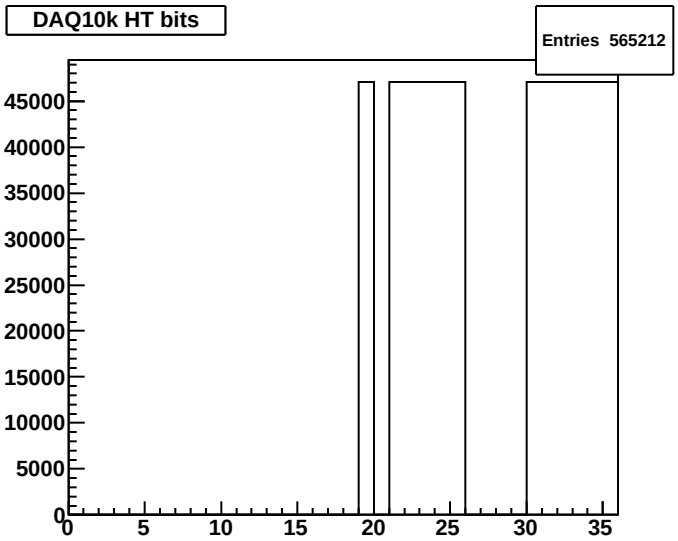

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

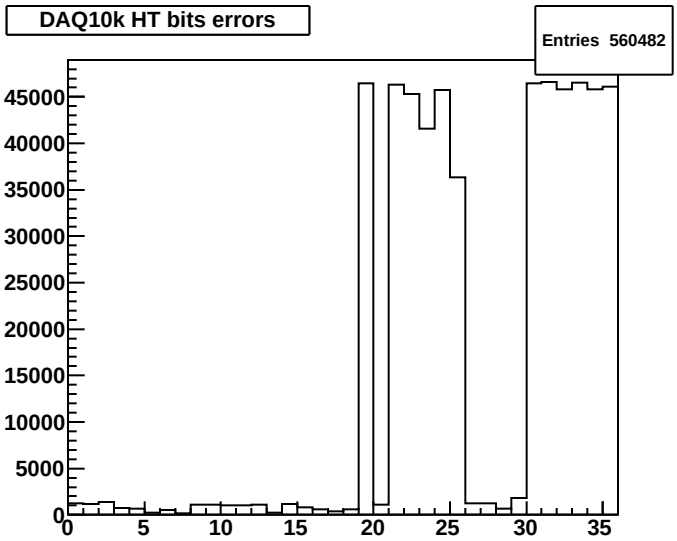

EMC L2 Input - HT01 bits/Partial JP ID
Entries 376808
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

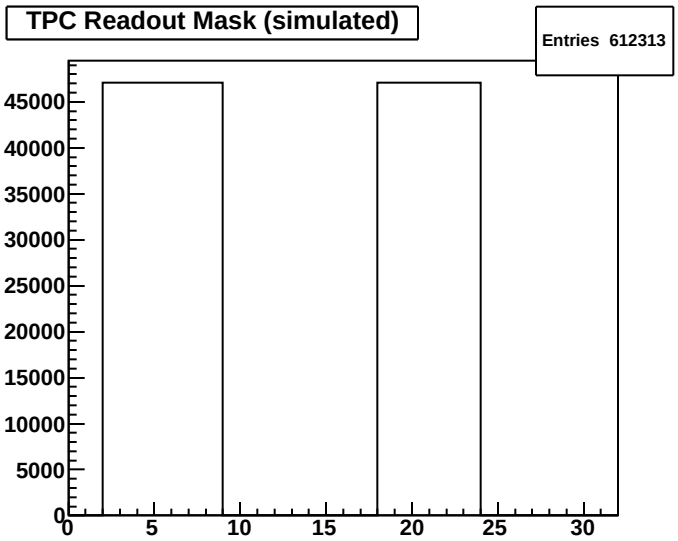

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

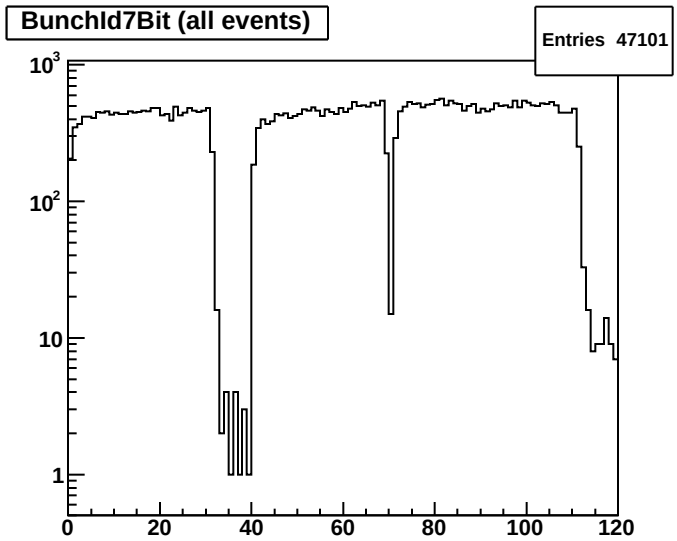

EMC L2 Input - HT23 bits
Entries 376808
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

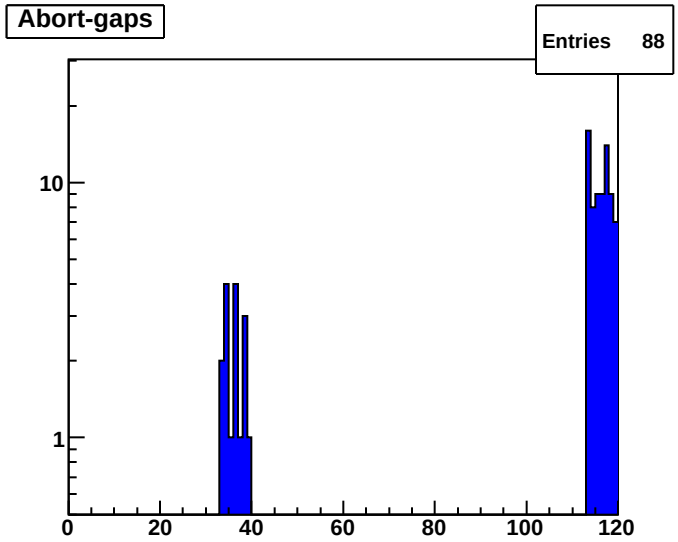

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

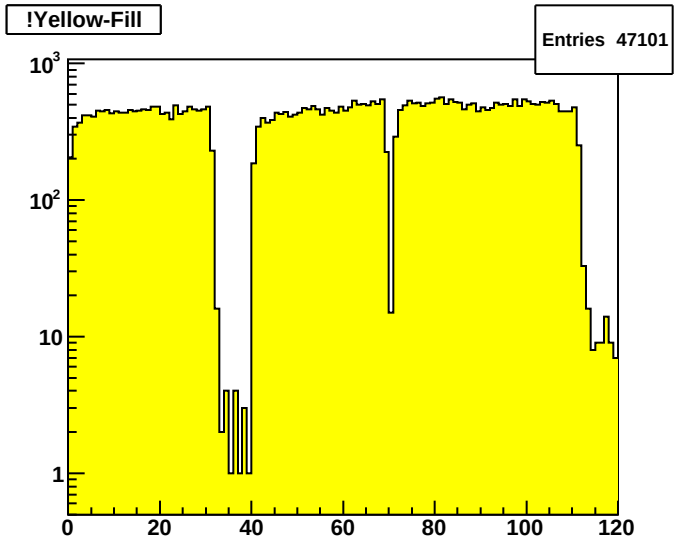

DAQ10k HT bits
Entries 565212

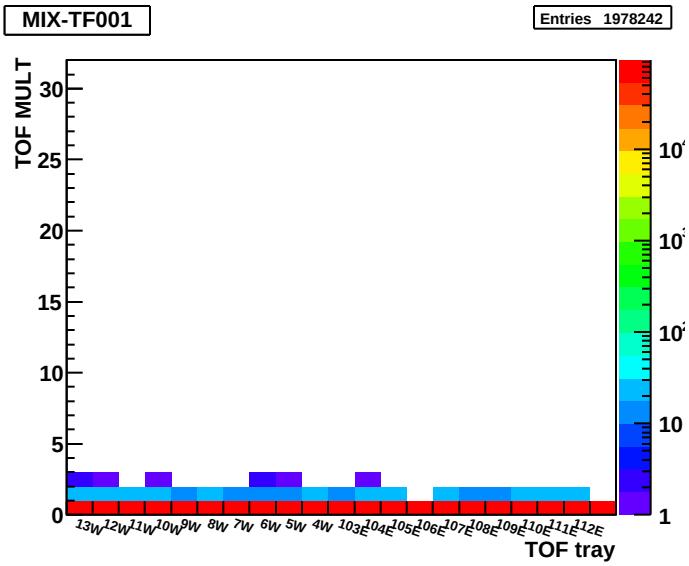

DAQ10k HT bits errors
Entries 560482

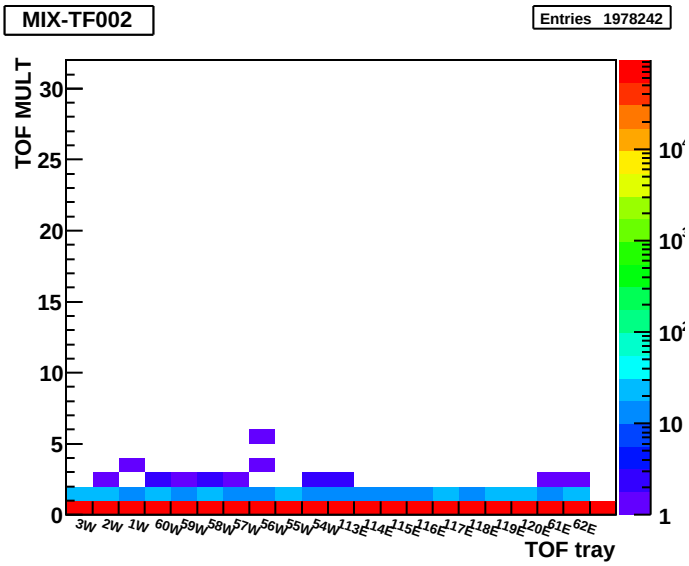

TPC Readout Mask (simulated)
Entries 612313

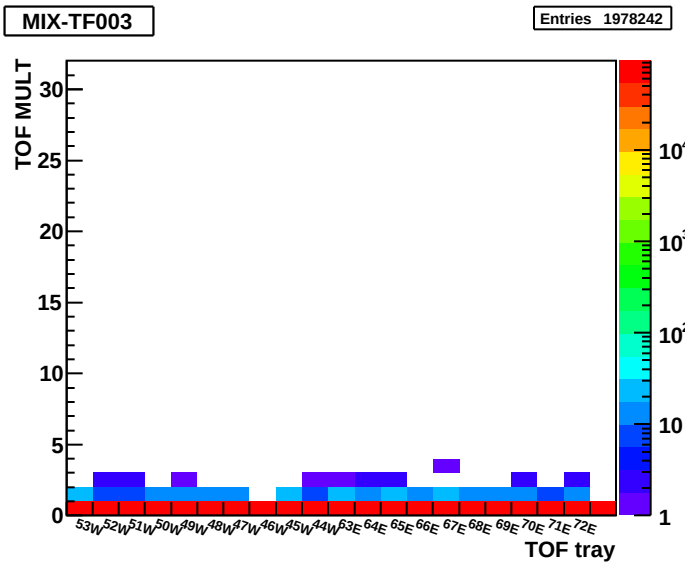

BunchId7Bit (all events)
Entries 47101

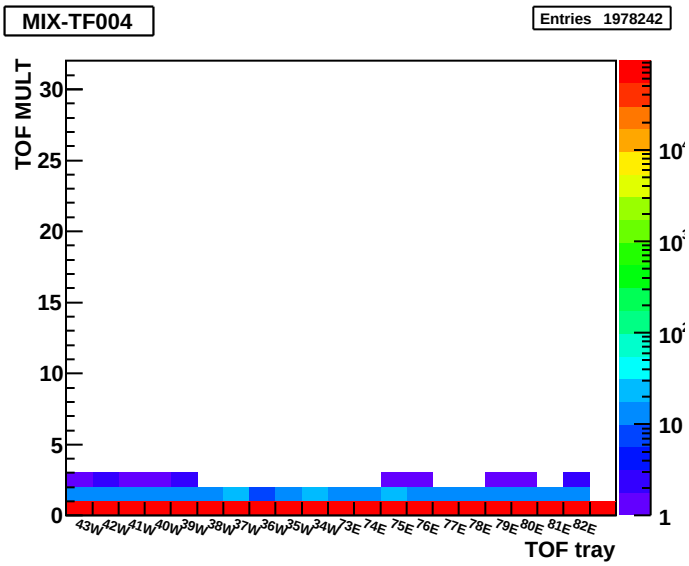

Abort-gaps
Entries 88

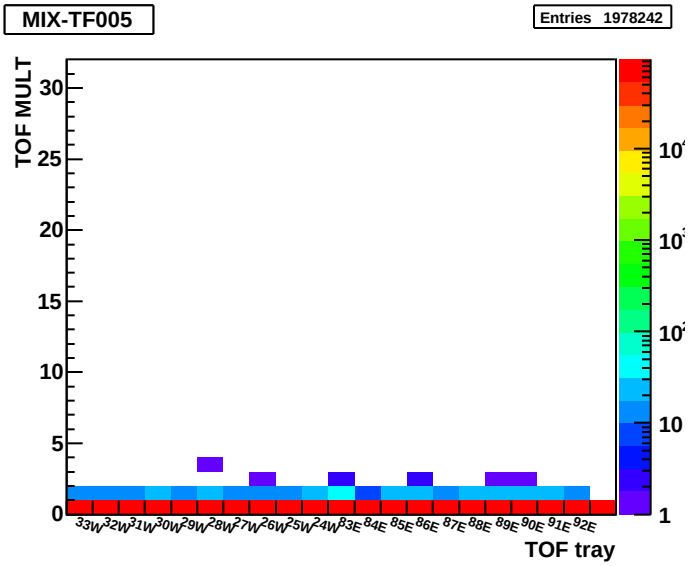

!Yellow-Fill
Entries 47101

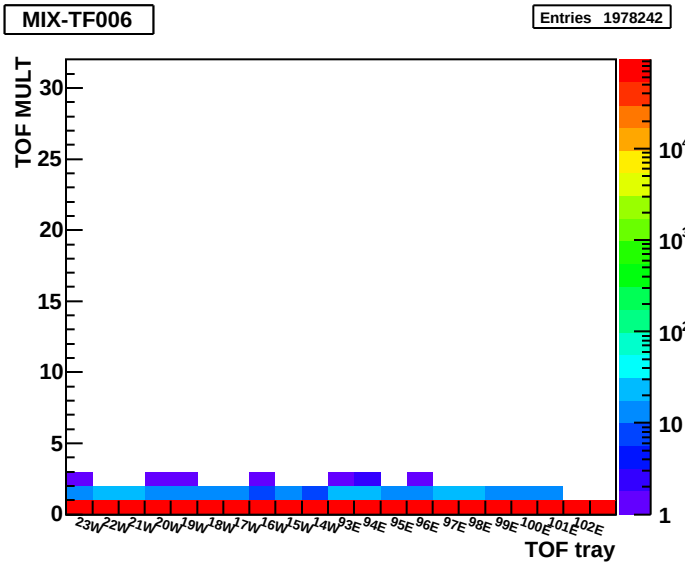

MIX-TF001
Entries 1978242
TOF MULT
TOF tray

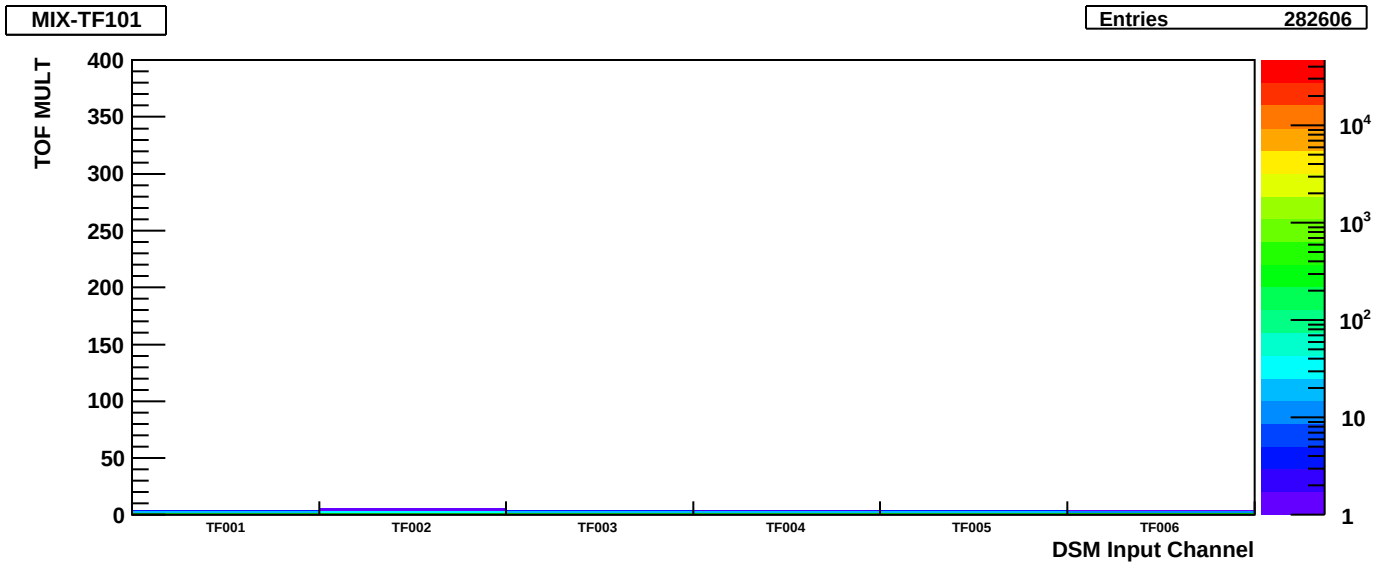

MIX-TF002
Entries 1978242
TOF MULT
TOF tray

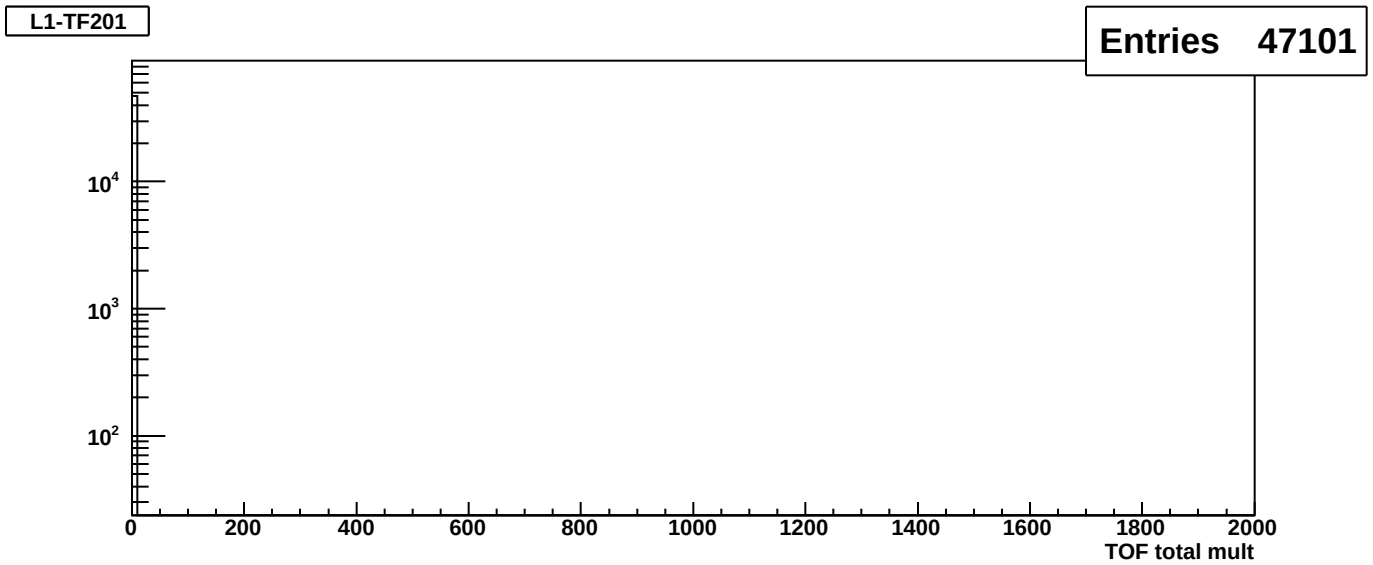

MIX-TF003
Entries 1978242
TOF MULT
TOF tray

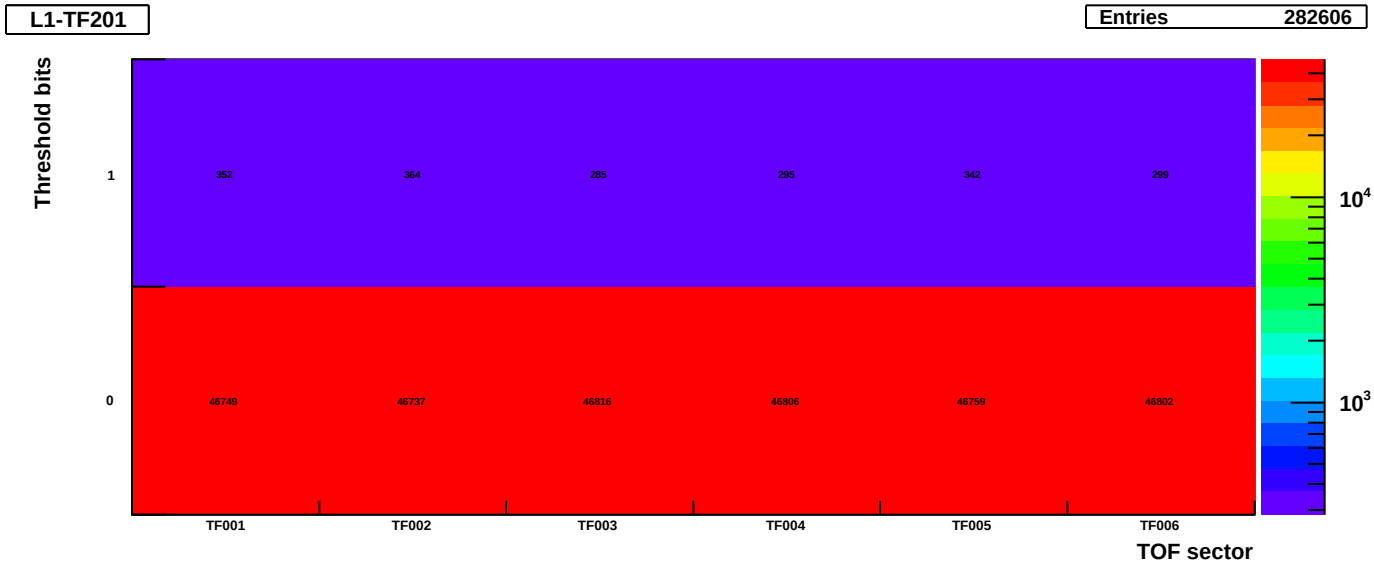

MIX-TF004
Entries 1978242
TOF MULT
TOF tray

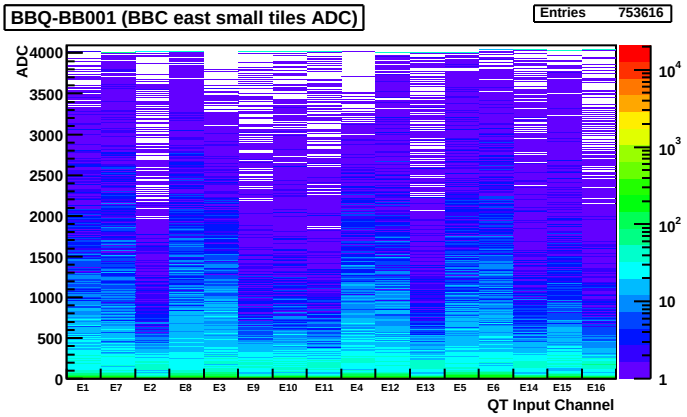

MIX-TF005
Entries 1978242
TOF MULT
TOF tray

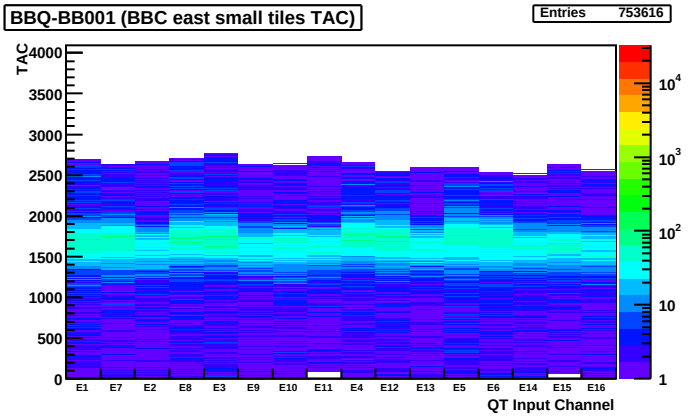

MIX-TF006
Entries 1978242
TOF MULT
TOF tray

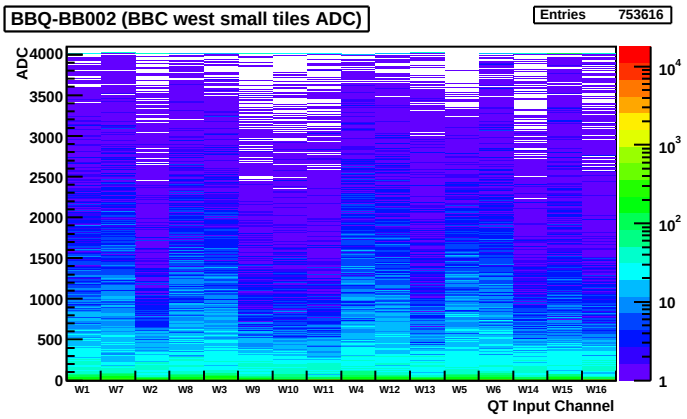

MIX-TF101
Entries 282606
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

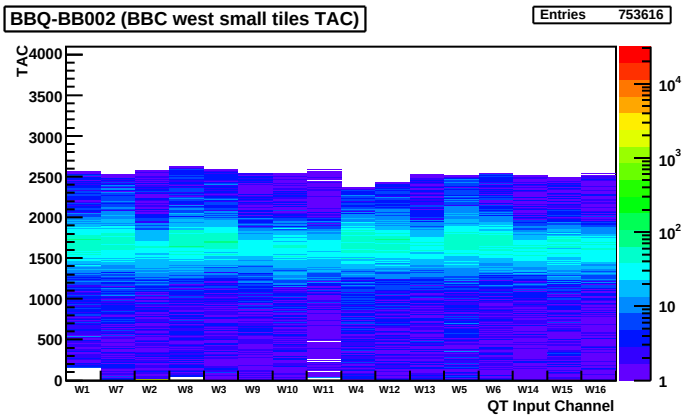

L1-TF201
Entries 47101
10^4
10^3
10^2
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

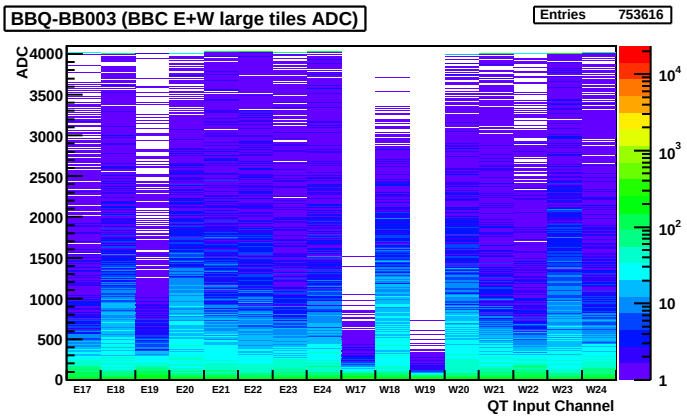

L1-TF201
Entries 282606
Threshold bits
1
0
352
364
285
295
342
299
46749
46737
46816
46806
46759
46802
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3

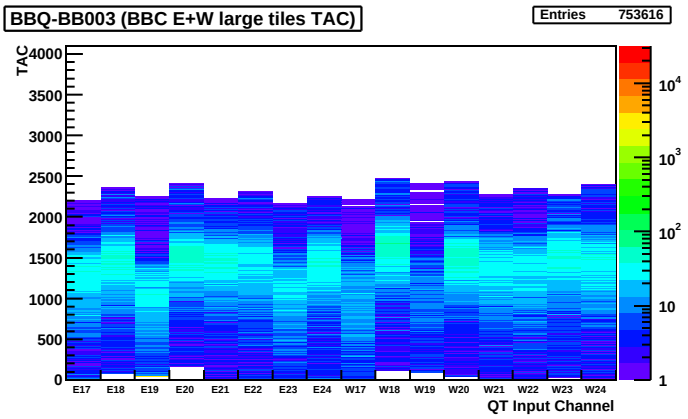

BBQ-BB001 (BBC east small tiles ADC)
Entries 753616
ADC
QT Input Channel

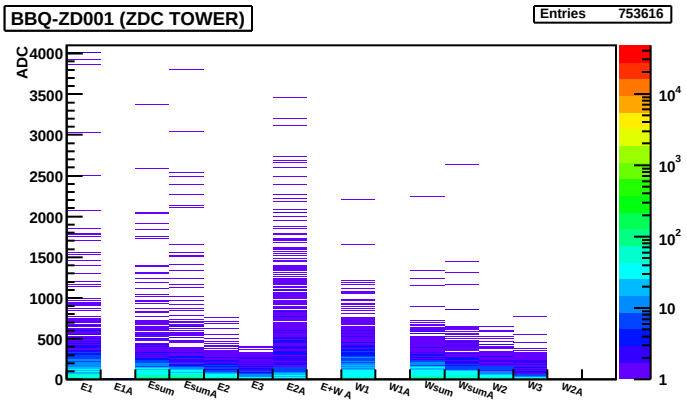

BBQ-BB001 (BBC east small tiles TAC)
Entries 753616
TAC
QT Input Channel

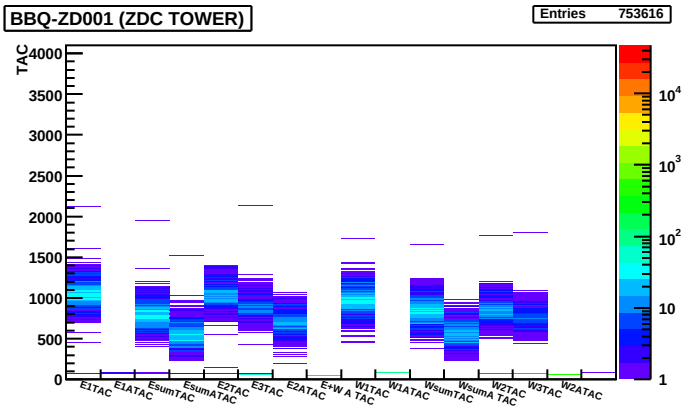

BBQ-BB002 (BBC west small tiles ADC)
Entries 753616
ADC
QT Input Channel

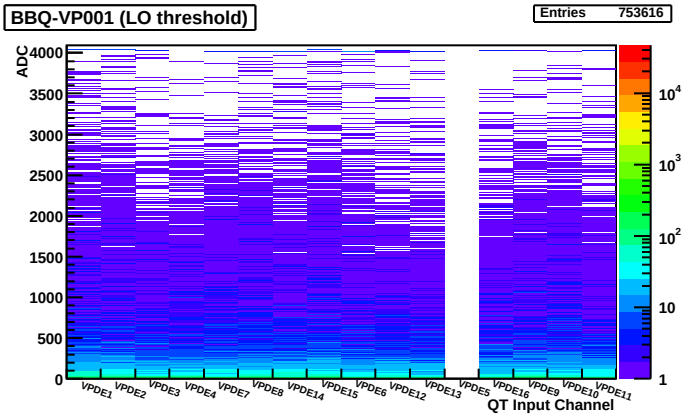

BBQ-BB002 (BBC west small tiles TAC)
Entries 753616
TAC
QT Input Channel

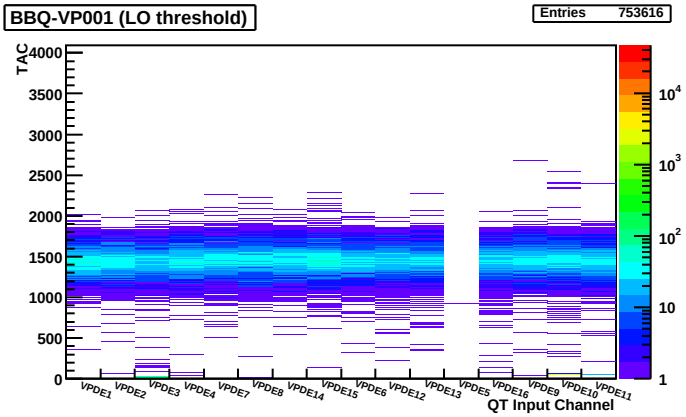

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 753616
ADC
QT Input Channel

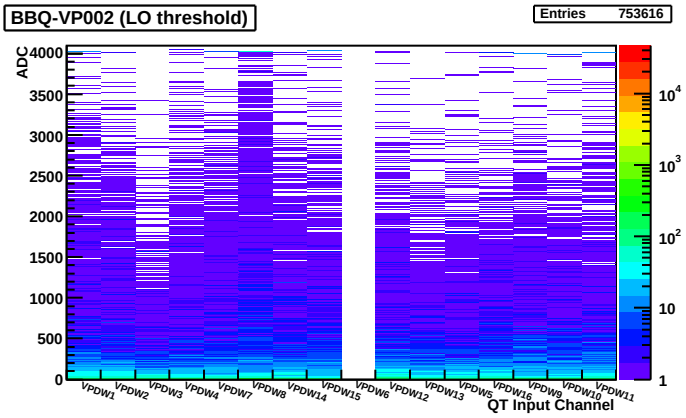

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 753616
TAC
QT Input Channel

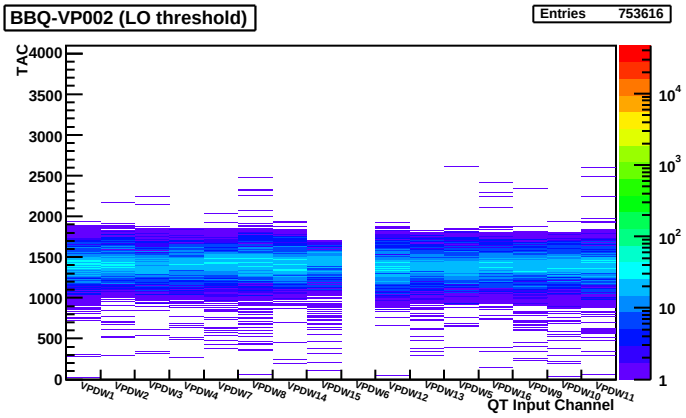

BBQ-ZD001 (ZDC TOWER)
Entries 753616
ADC

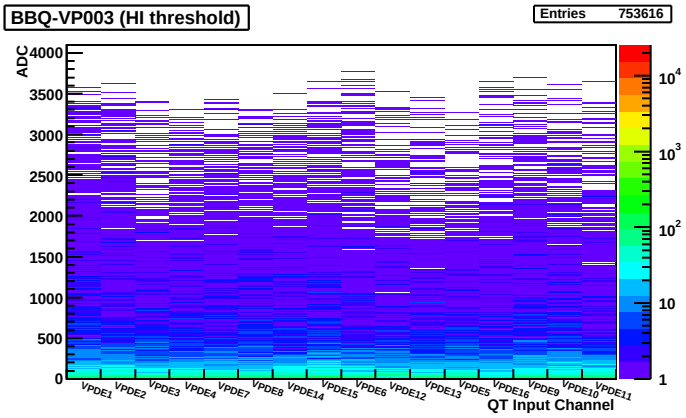

BBQ-ZD001 (ZDC TOWER)
Entries 753616
TAC

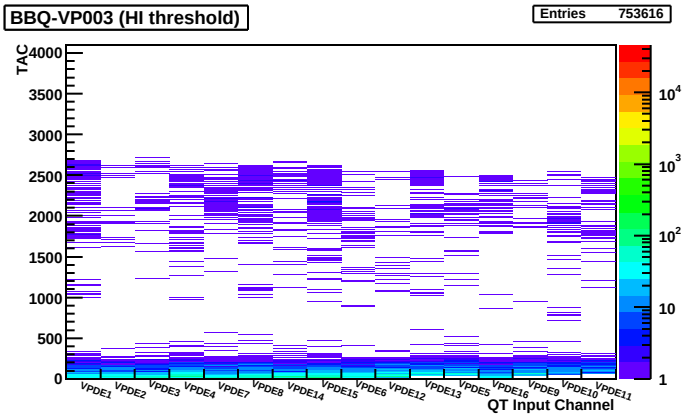

BBQ-VP001 (LO threshold)
Entries 753616
ADC
QT Input Channel

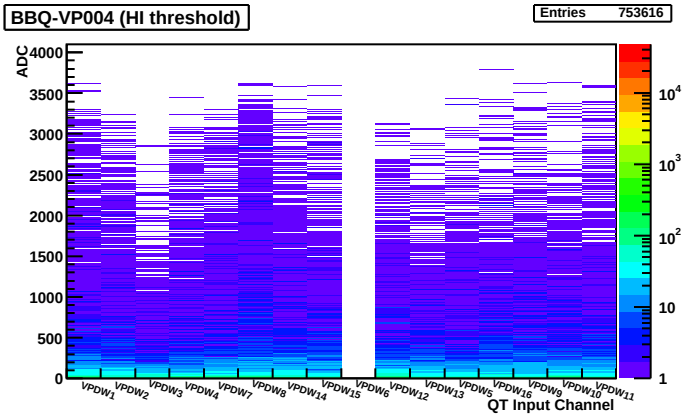

BBQ-VP001 (LO threshold)
Entries 753616
TAC
QT Input Channel

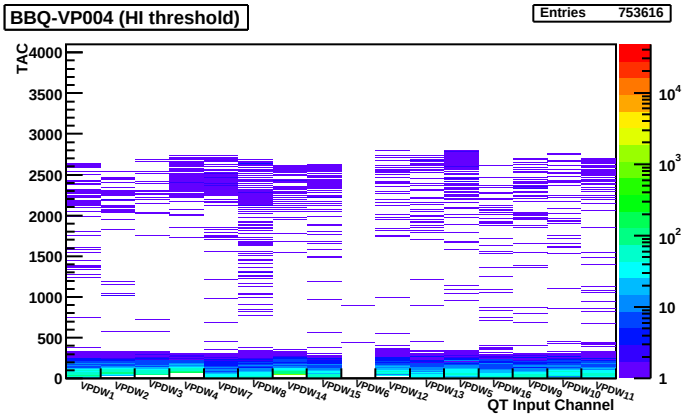

BBQ-VP002 (LO threshold)
Entries 753616
ADC
QT Input Channel

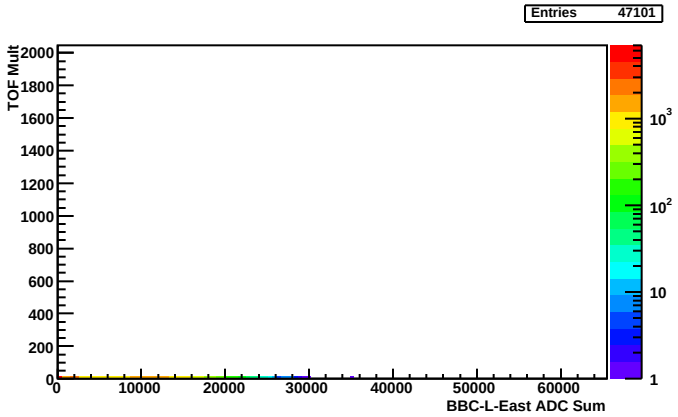

BBQ-VP002 (LO threshold)
Entries 753616
TAC
QT Input Channel

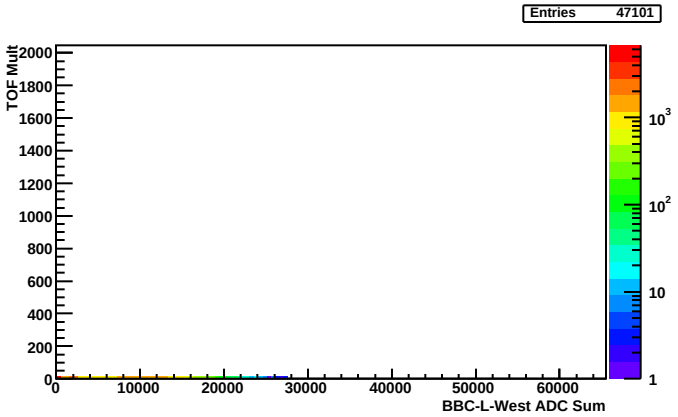

BBQ-VP003 (HI threshold)
Entries 753616
ADC
QT Input Channel

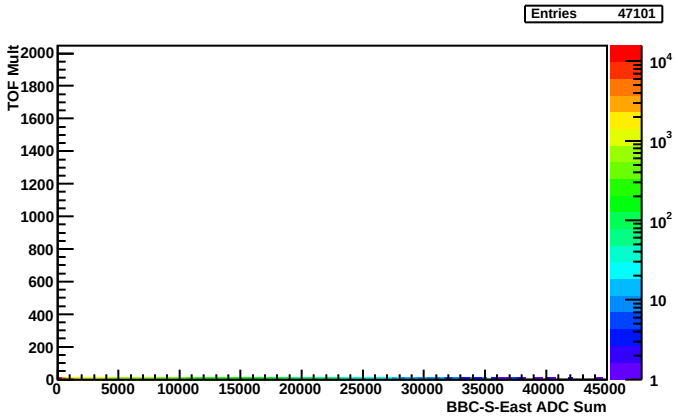

BBQ-VP003 (HI threshold)
Entries 753616
TAC
QT Input Channel

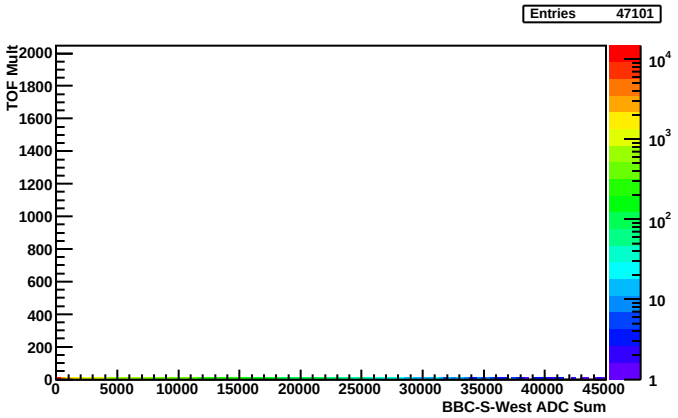

BBQ-VP004 (HI threshold)
Entries 753616
ADC
QT Input Channel

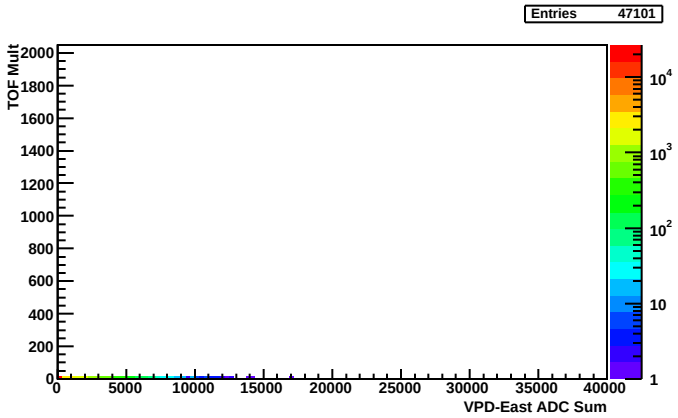

BBQ-VP004 (HI threshold)
Entries 753616
TAC
QT Input Channel

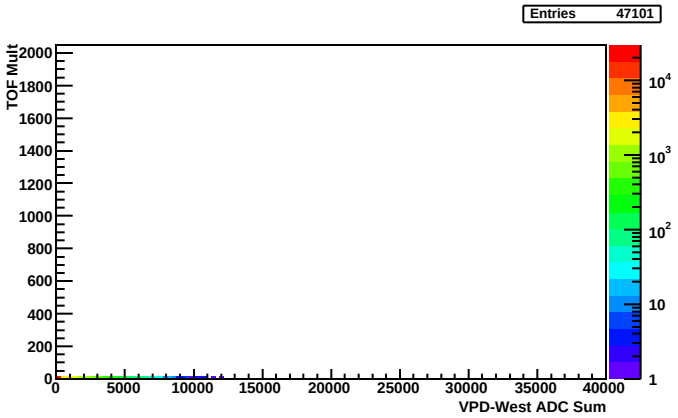

Entries 47101
TOF Mult
BBC-L-East ADC Sum

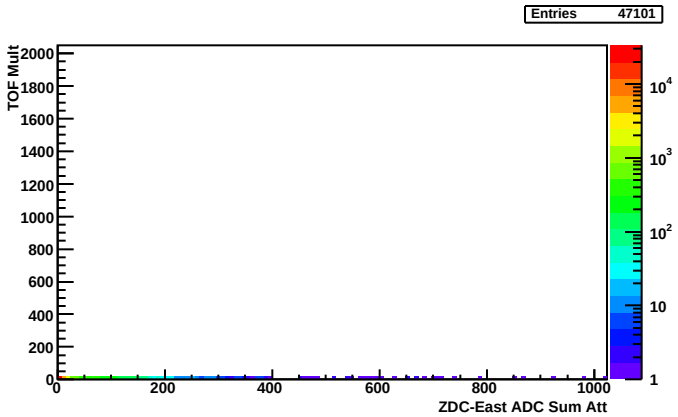

Entries 47101
TOF Mult
BBC-L-West ADC Sum

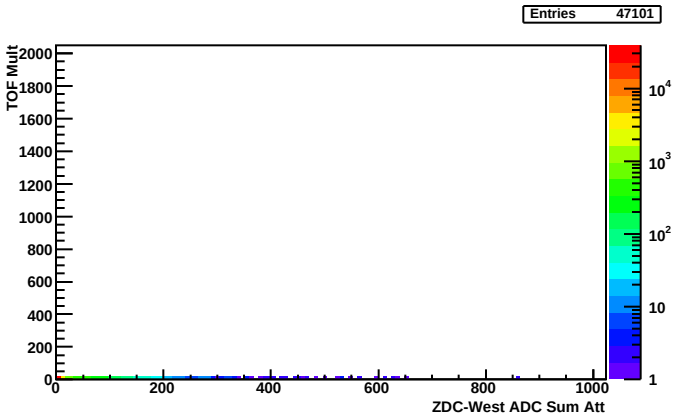

Entries 47101
TOF Mult
BBC-S-East ADC Sum

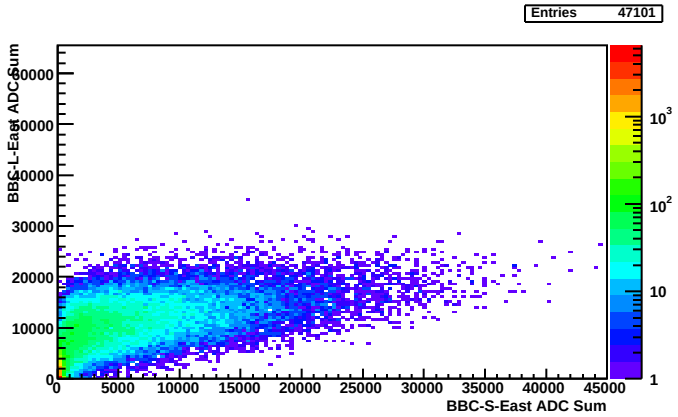

Entries 47101
TOF Mult
BBC-S-West ADC Sum

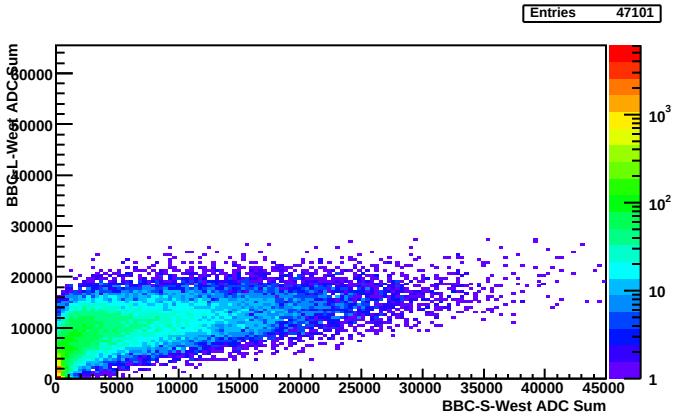

Entries 47101
TOF Mult
VPD-East ADC Sum

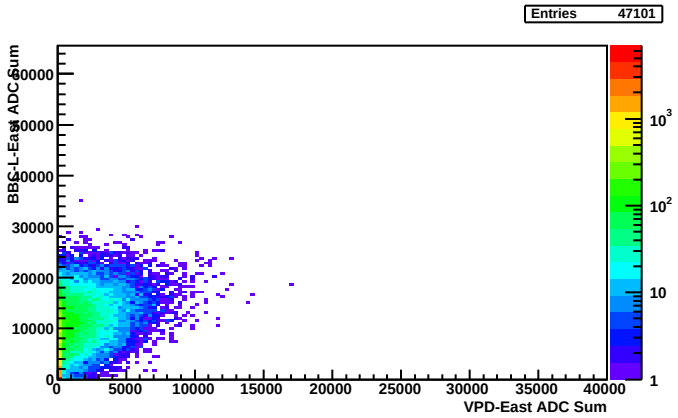

Entries 47101
TOF Mult
VPD-West ADC Sum

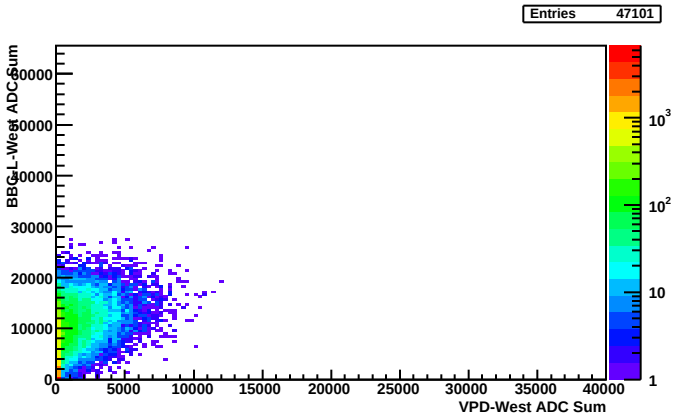

Entries 47101
TOF Mult
ZDC-East ADC Sum Att

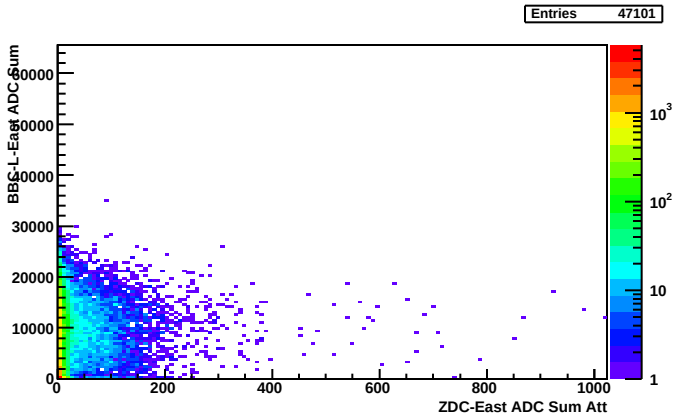

Entries 47101
TOF Mult
ZDC-West ADC Sum Att

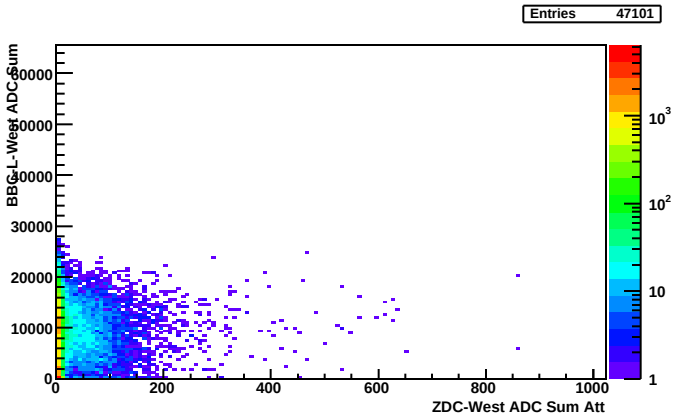

Entries 47101
BBC-L-East ADC Sum
BBC-S-East ADC Sum

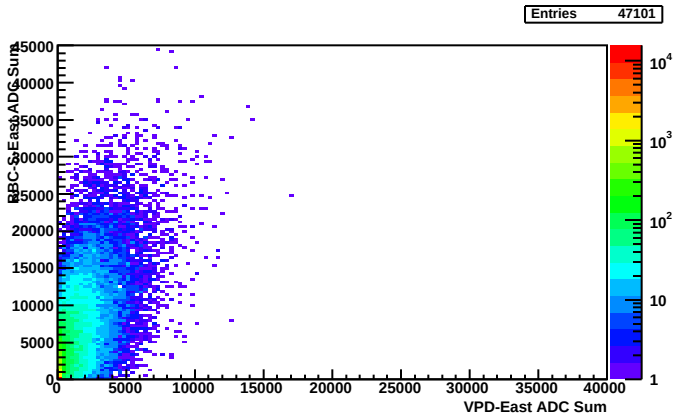

Entries 47101
BBC-L-West ADC Sum
BBC-S-West ADC Sum

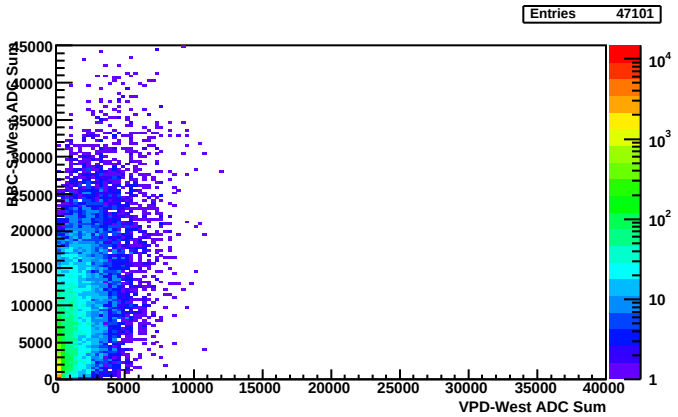

Entries 47101
BBC-L-East ADC Sum
VPD-East ADC Sum

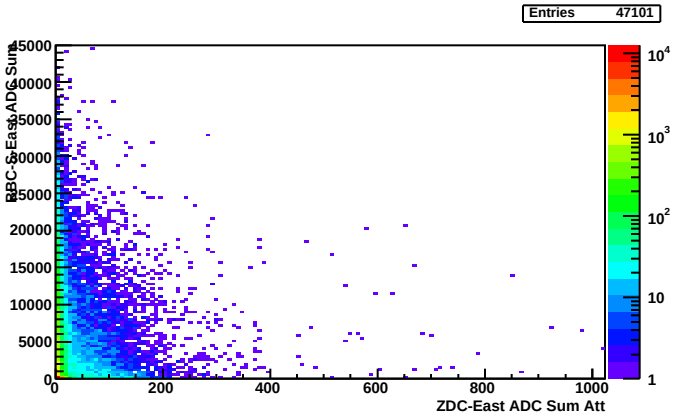

Entries 47101
BBC-L-West ADC Sum
VPD-West ADC Sum

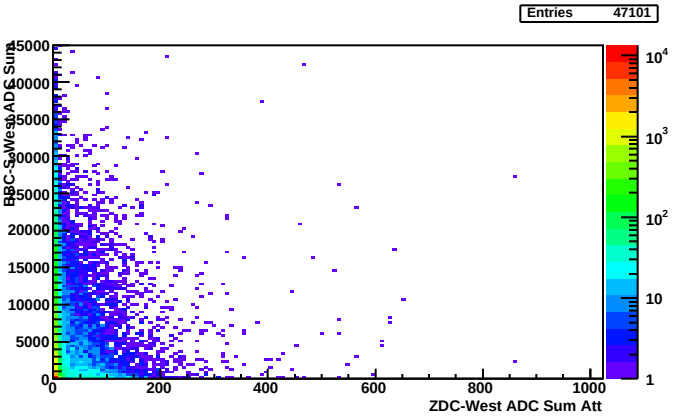

Entries 47101
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

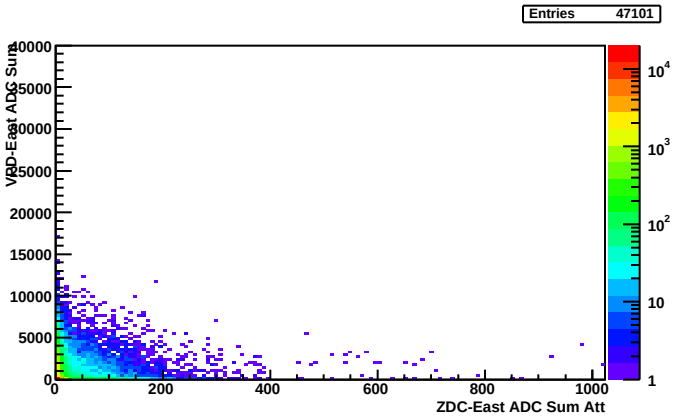

Entries 47101
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

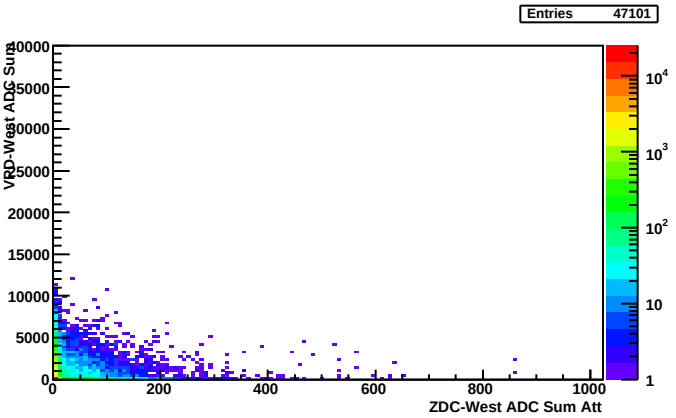

Entries 47101
BBC-S-East ADC Sum
VPD-East ADC Sum

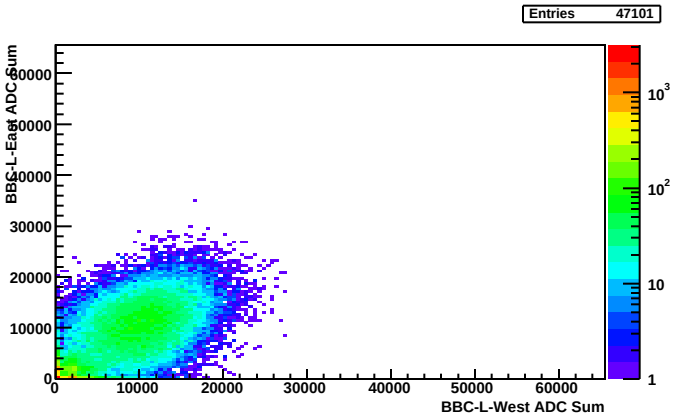

Entries 47101
BBC-S-West ADC Sum
VPD-West ADC Sum

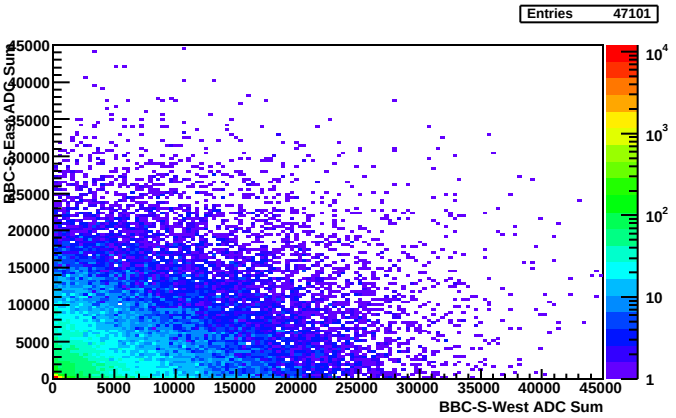

Entries 47101
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

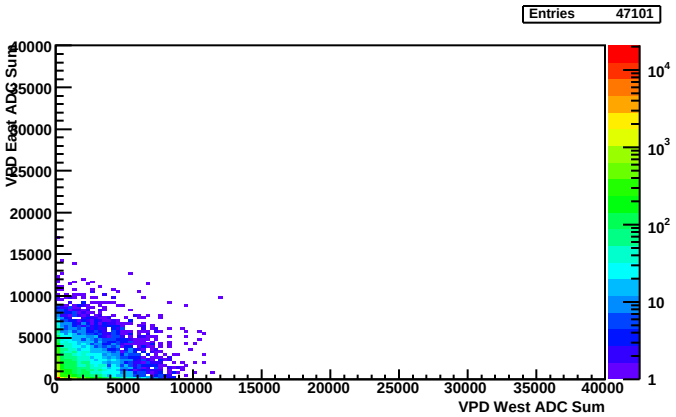

Entries 47101
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

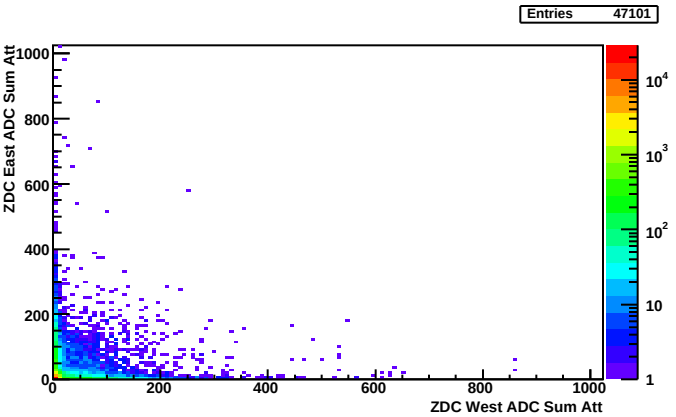

Entries 47101
VPD-East ADC Sum
ZDC-East ADC Sum Att

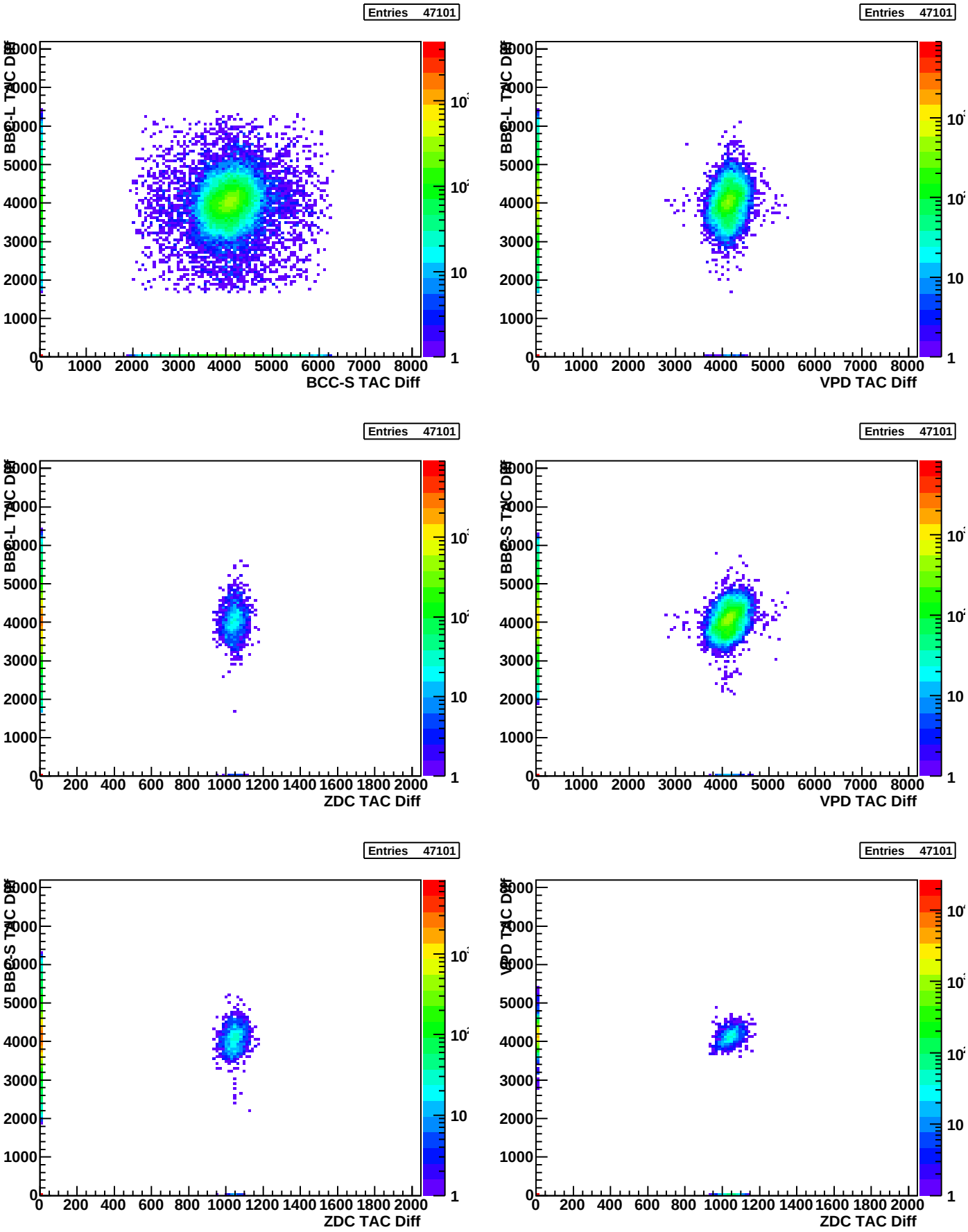

Entries 47101
VPD-West ADC Sum
ZDC-West ADC Sum Att

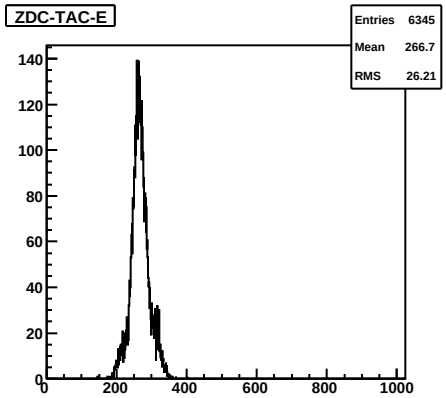

Entries 47101
BBC-L-East ADC Sum
BBC-L-West ADC Sum

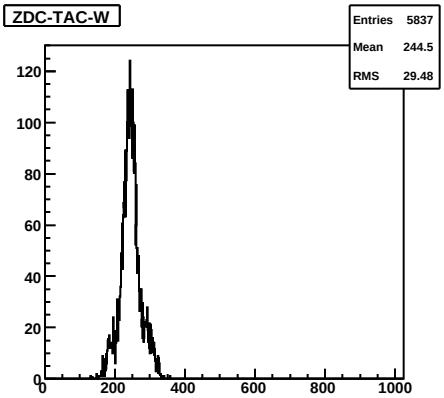

Entries 47101
BBC-S-East ADC Sum
BBC-S-West ADC Sum

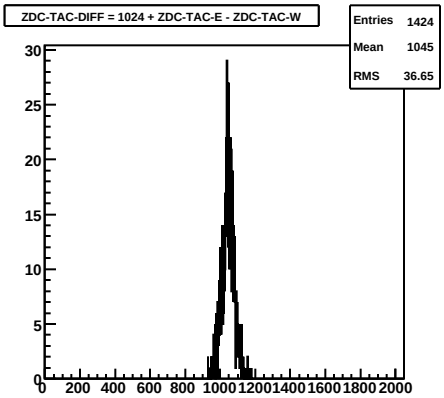

Entries 47101
VPD East ADC Sum
VPD West ADC Sum

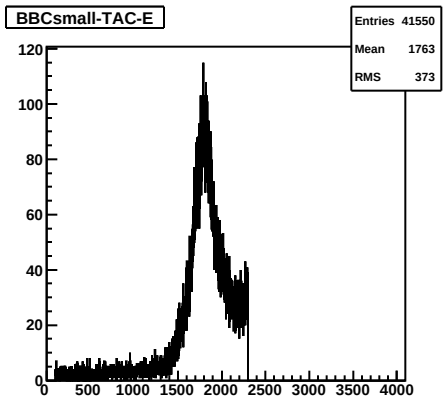

Entries 47101
ZDC East ADC Sum Att
ZDC West ADC Sum Att

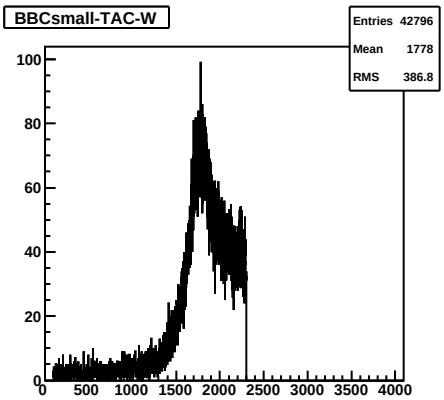

Entries 47101
BBC-L TAC Diff
BCC-S TAC Diff
Entries 47101
BBC-L TAC Diff
VPD TAC Diff
Entries 47101
BBC-L TAC Diff
ZDC TAC Diff
Entries 47101
BBC-S TAC Diff
VPD TAC Diff
Entries 47101
BBC-S TAC Diff
ZDC TAC Diff
Entries 47101
VPD TAC Diff
ZDC TAC Diff

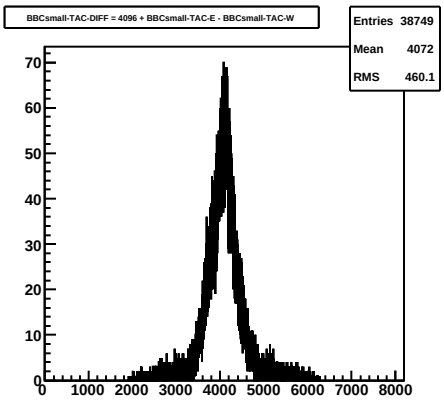

ZDC-TAC-E
Entries 6345
Mean 266.7
RMS 26.21

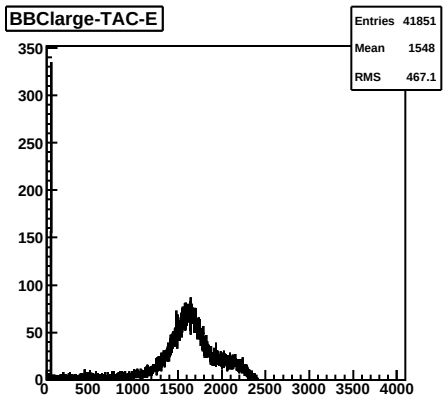

ZDC-TAC-W
Entries 5837
Mean 244.5
RMS 29.48

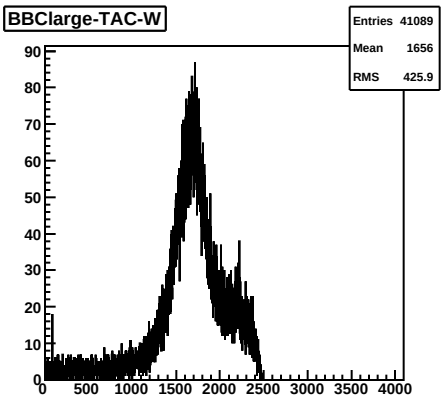

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1424
Mean 1045
RMS 36.65

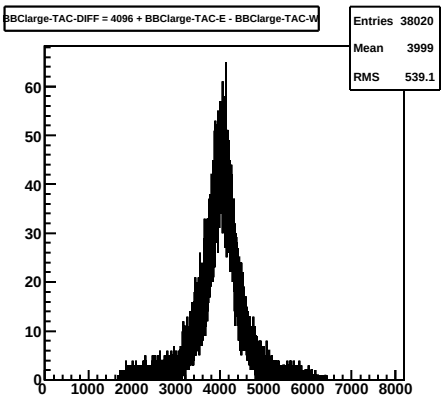

BBCsmall-TAC-E
Entries 41550
Mean 1763
RMS 373

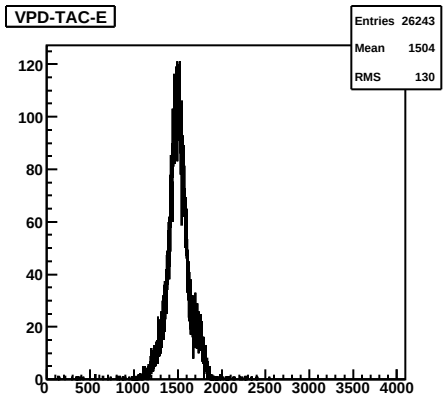

BBCsmall-TAC-W
Entries 42796
Mean 1778
RMS 386.8

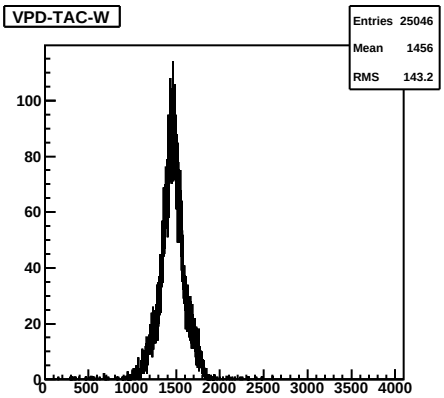

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 38749
Mean 4072
RMS 460.1

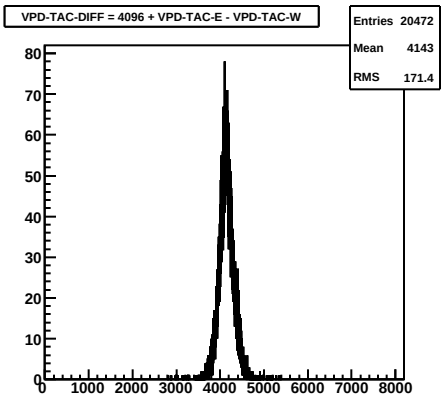

BBClarge-TAC-E
Entries 41851
Mean 1548
RMS 467.1

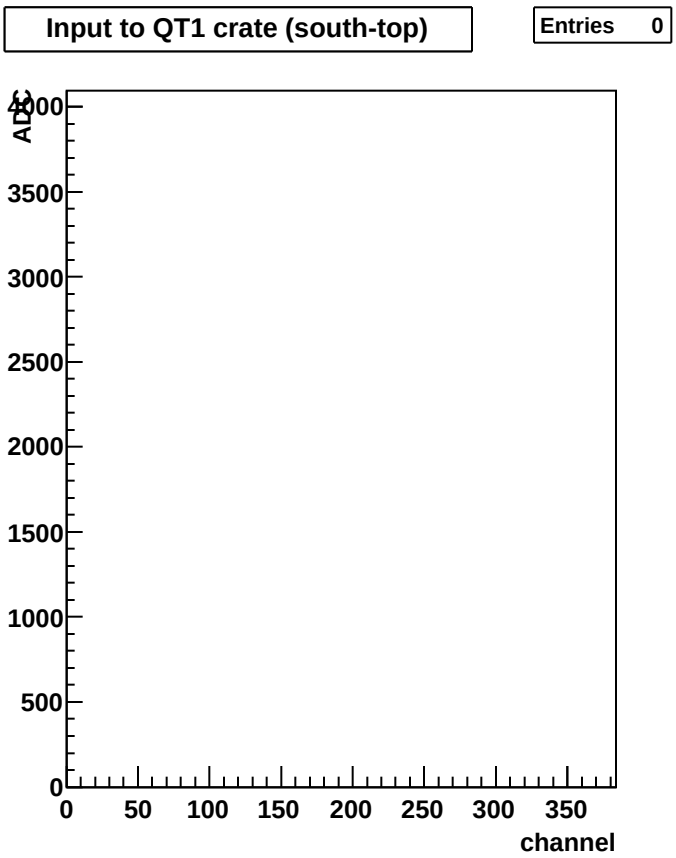

BBClarge-TAC-W
Entries 41089
Mean 1656
RMS 425.9

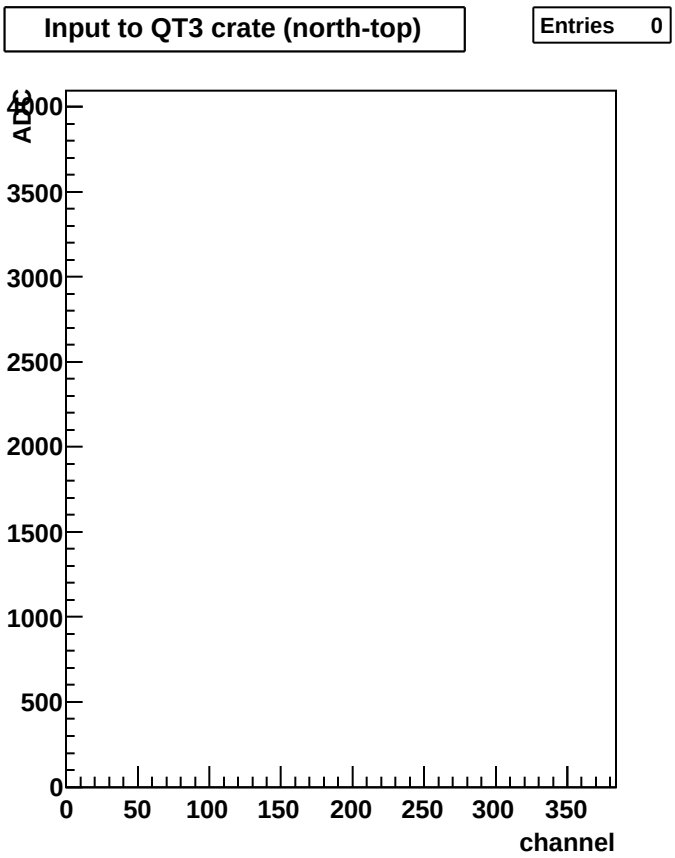

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 38020
Mean 3999
RMS 539.1

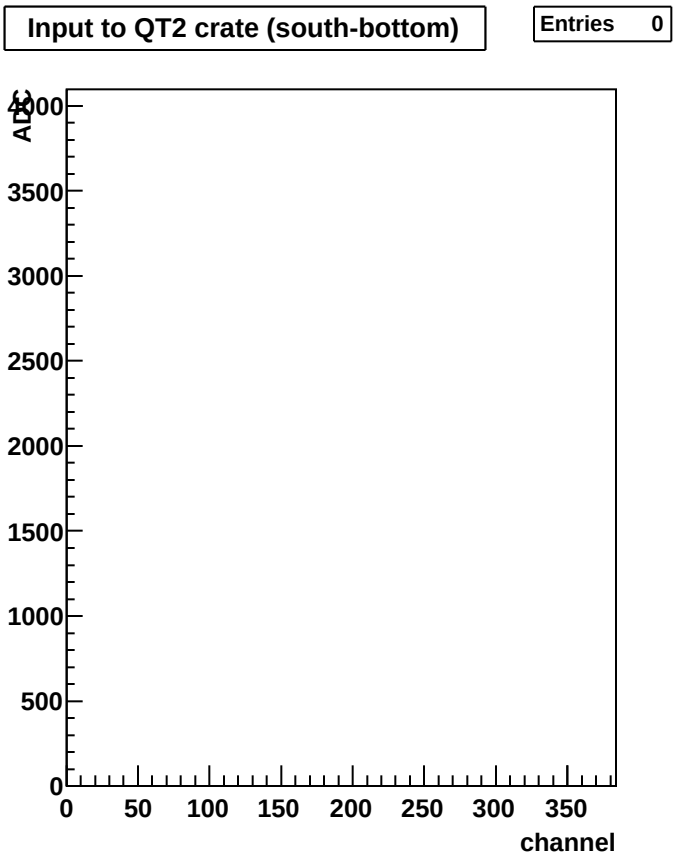

VPD-TAC-E
Entries 26243
Mean 1504
RMS 130

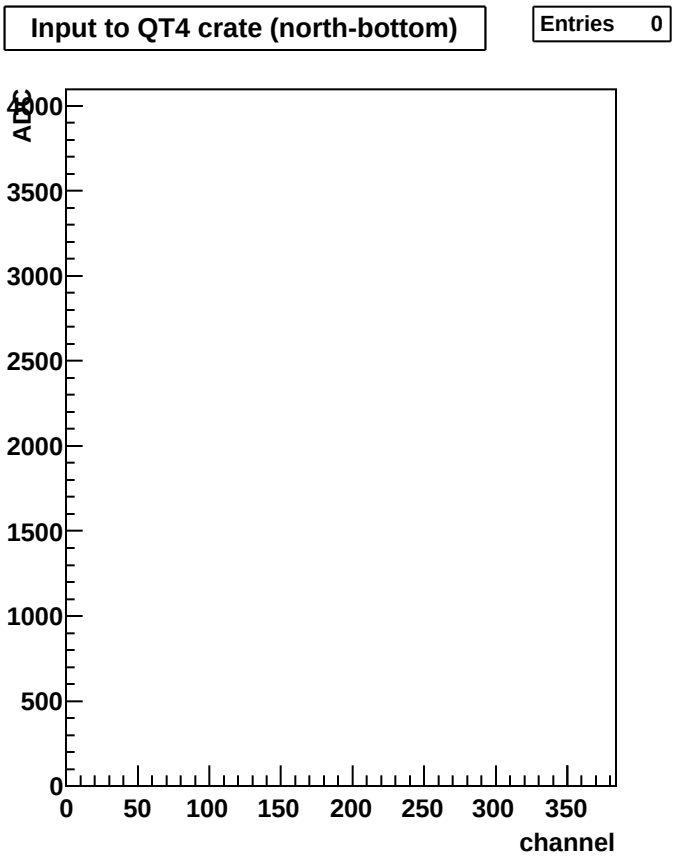

VPD-TAC-W
Entries 25046
Mean 1456
RMS 143.2

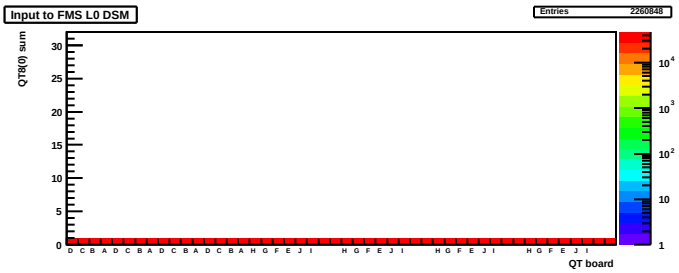

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 20472
Mean 4143
RMS 171.4

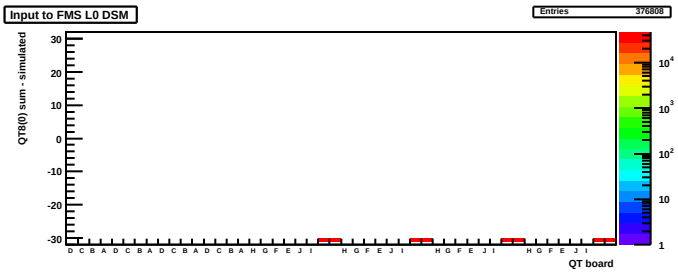

Input to QT1 crate (south-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

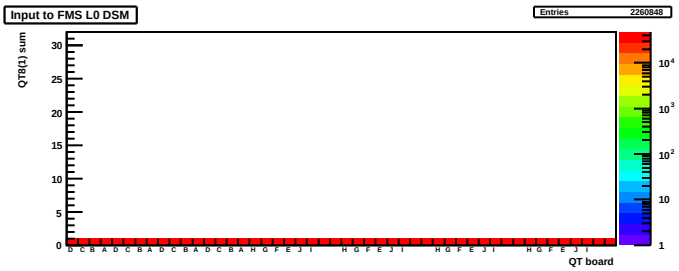

Input to QT3 crate (north-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

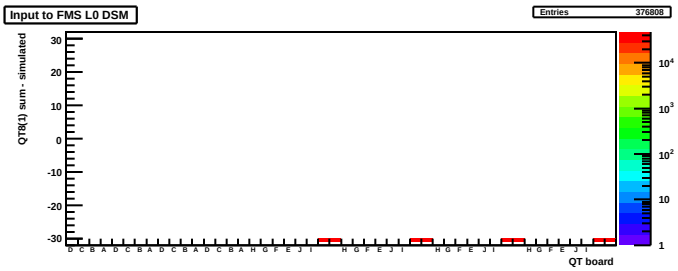

Input to QT2 crate (south-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

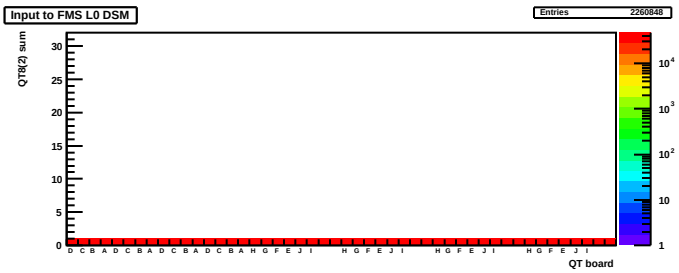

Input to QT4 crate (north-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

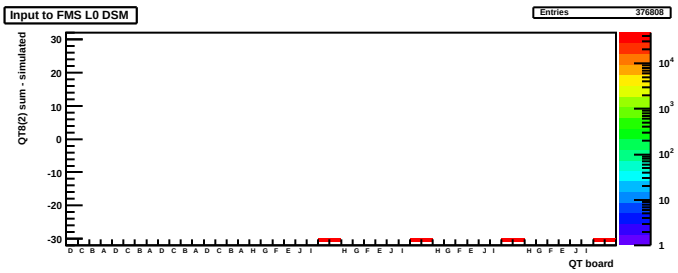

Input to FMS L0 DSM
Entries 2260848
QT8(0) sum
QT board

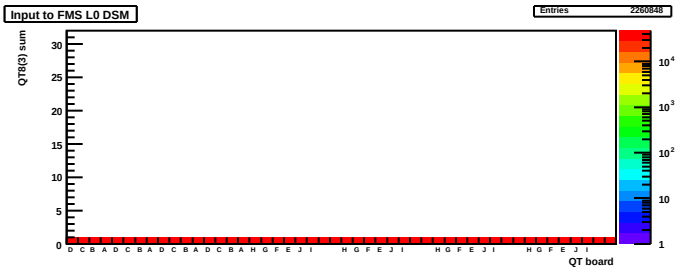

Input to FMS L0 DSM
Entries 376808
QT8(0) sum - simulated
QT board

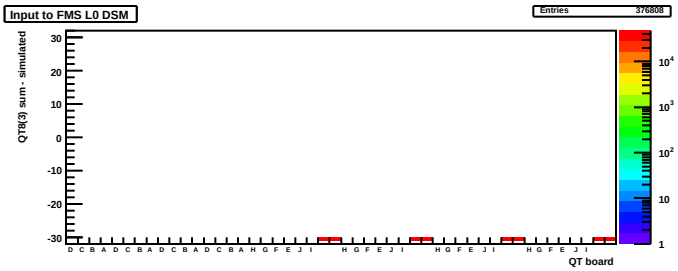

Input to FMS L0 DSM
Entries 2260848
QT8(1) sum
QT board

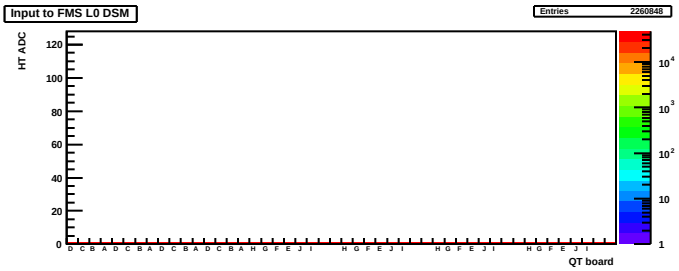

Input to FMS L0 DSM
Entries 376808
QT8(1) sum - simulated
QT board

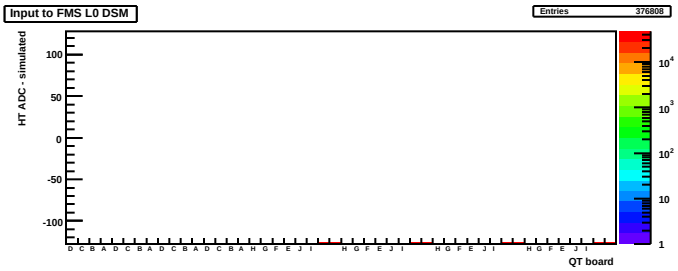

Input to FMS L0 DSM
Entries 2260848
QT8(2) sum
QT board

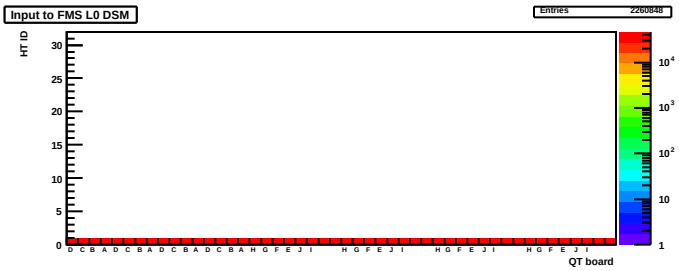

Input to FMS L0 DSM
Entries 376808
QT8(2) sum - simulated
QT board

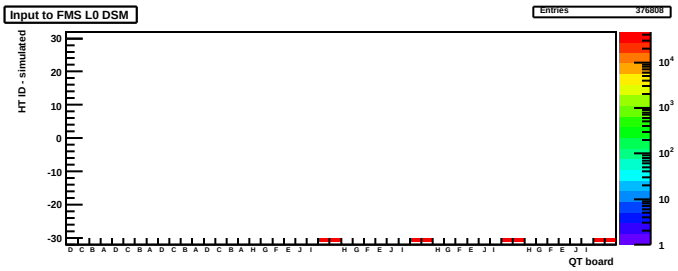

Input to FMS L0 DSM
Entries 2260848
QT8(3) sum
QT board

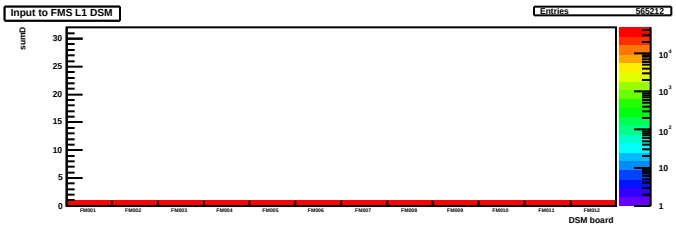

Input to FMS L0 DSM
Entries 376808
QT8(3) sum - simulated
QT board

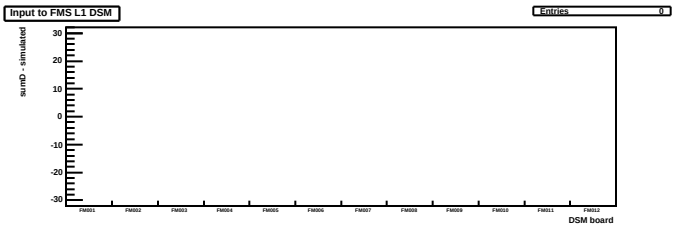

Input to FMS L0 DSM
Entries 2260848
HT ADC
QT board

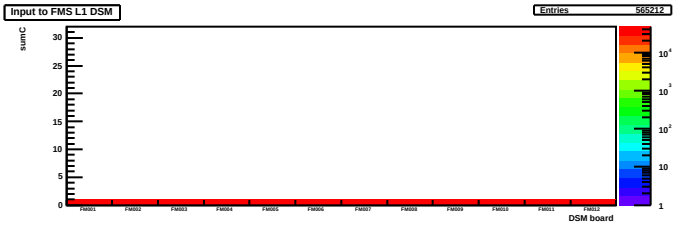

Input to FMS L0 DSM
Entries 376808
HT ADC - simulated
QT board

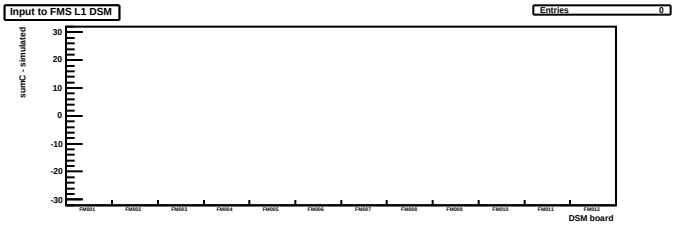

Input to FMS L0 DSM
Entries 2260848
HT ID
QT board

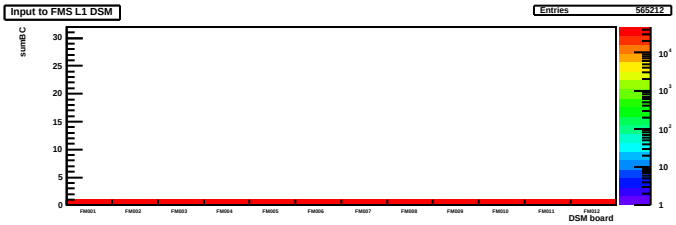

Input to FMS L0 DSM
Entries 376808
HT ID - simulated
QT board

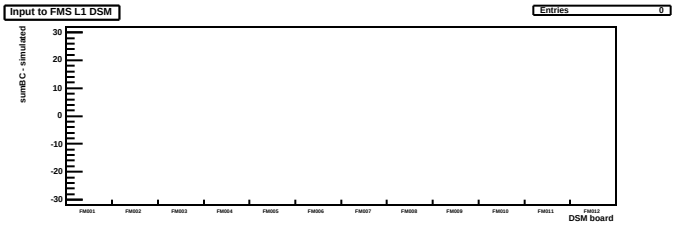

Input to FMS L1 DSM
Entries 565212
sumD
DSM board

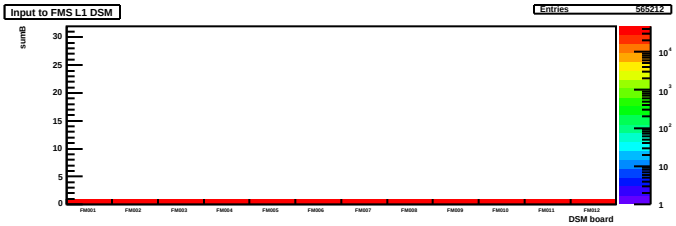

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

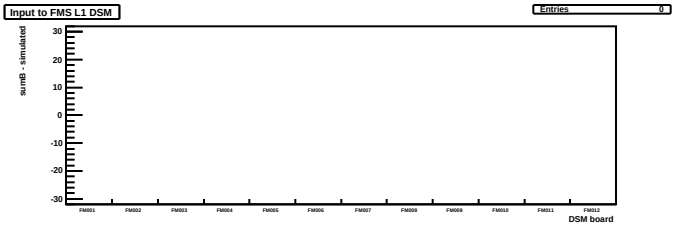

Input to FMS L1 DSM
Entries 565212
sumC
DSM board

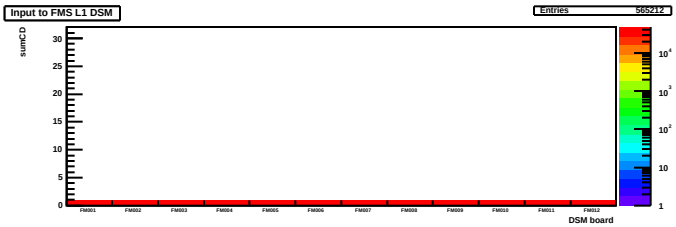

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

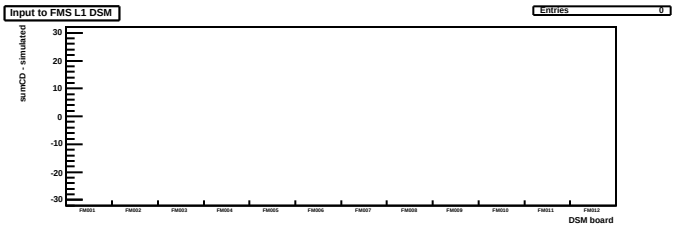

Input to FMS L1 DSM
Entries 565212
sumBC
DSM board

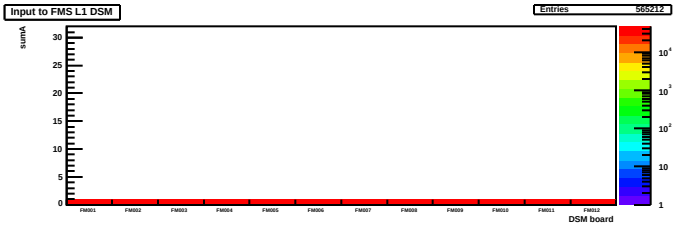

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

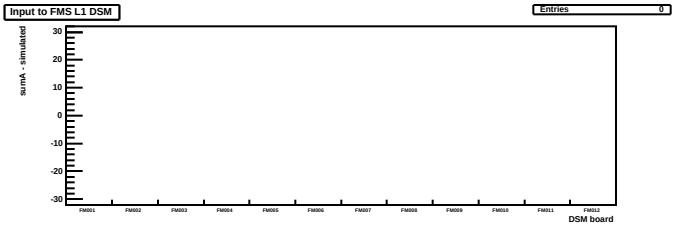

Input to FMS L1 DSM
Entries 565212
sumB
DSM board

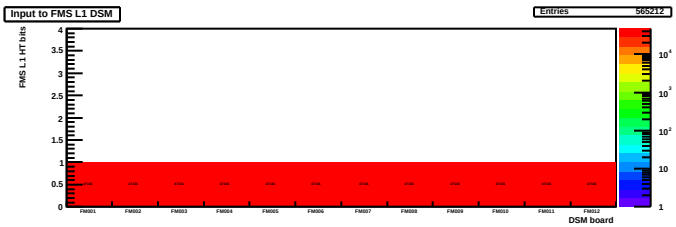

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

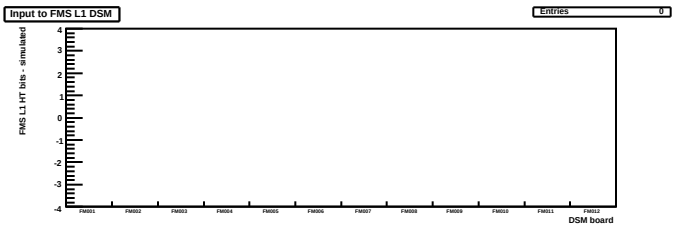

Input to FMS L1 DSM
Entries 565212
sumCD
DSM board

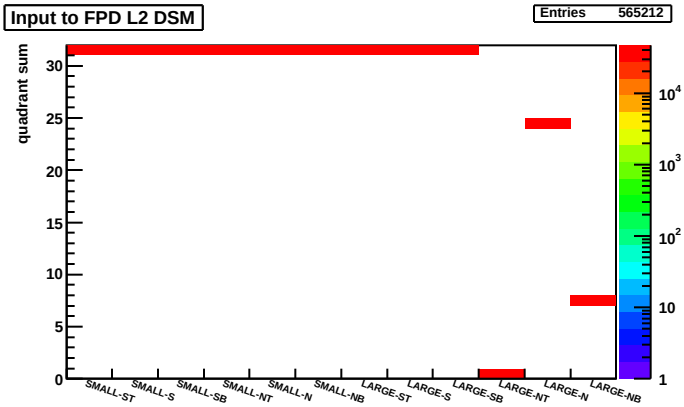

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

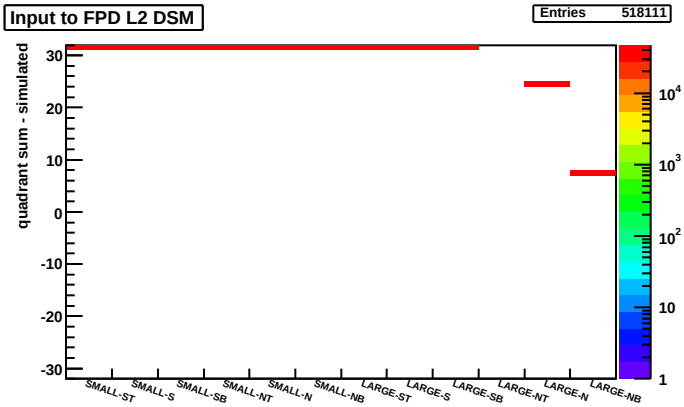

Input to FMS L1 DSM
Entries 565212
sumA
DSM board

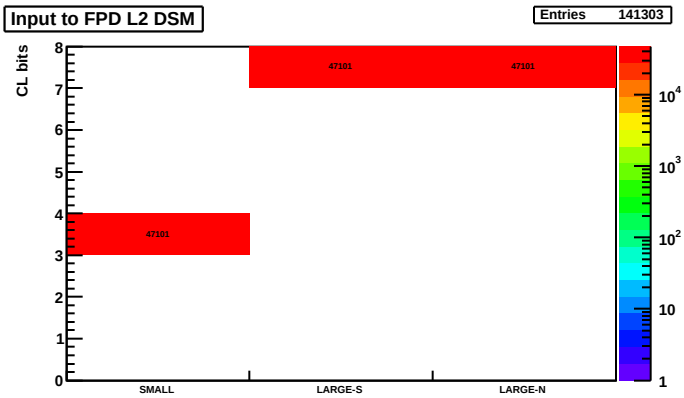

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

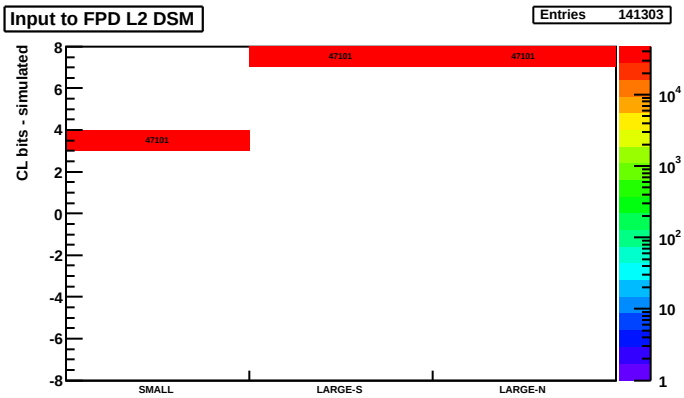

Input to FMS L1 DSM
Entries 565212
FMS L1 HT bits
DSM board

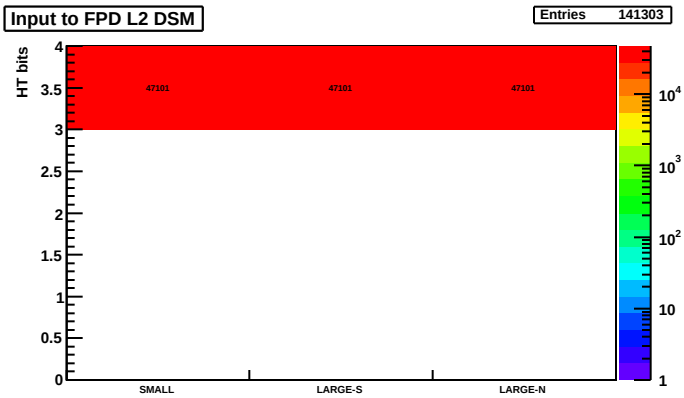

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

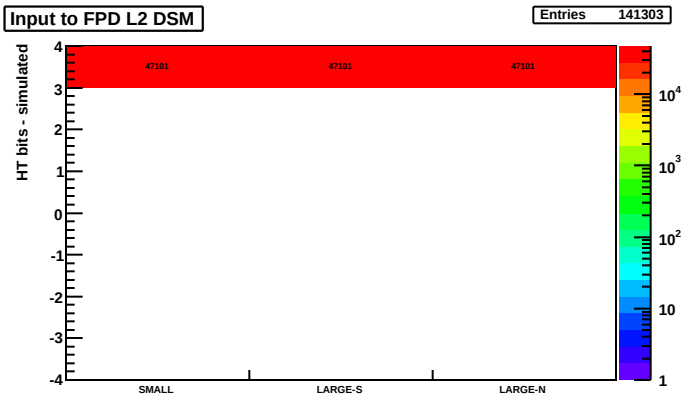

Input to FPD L2 DSM
Entries 565212
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

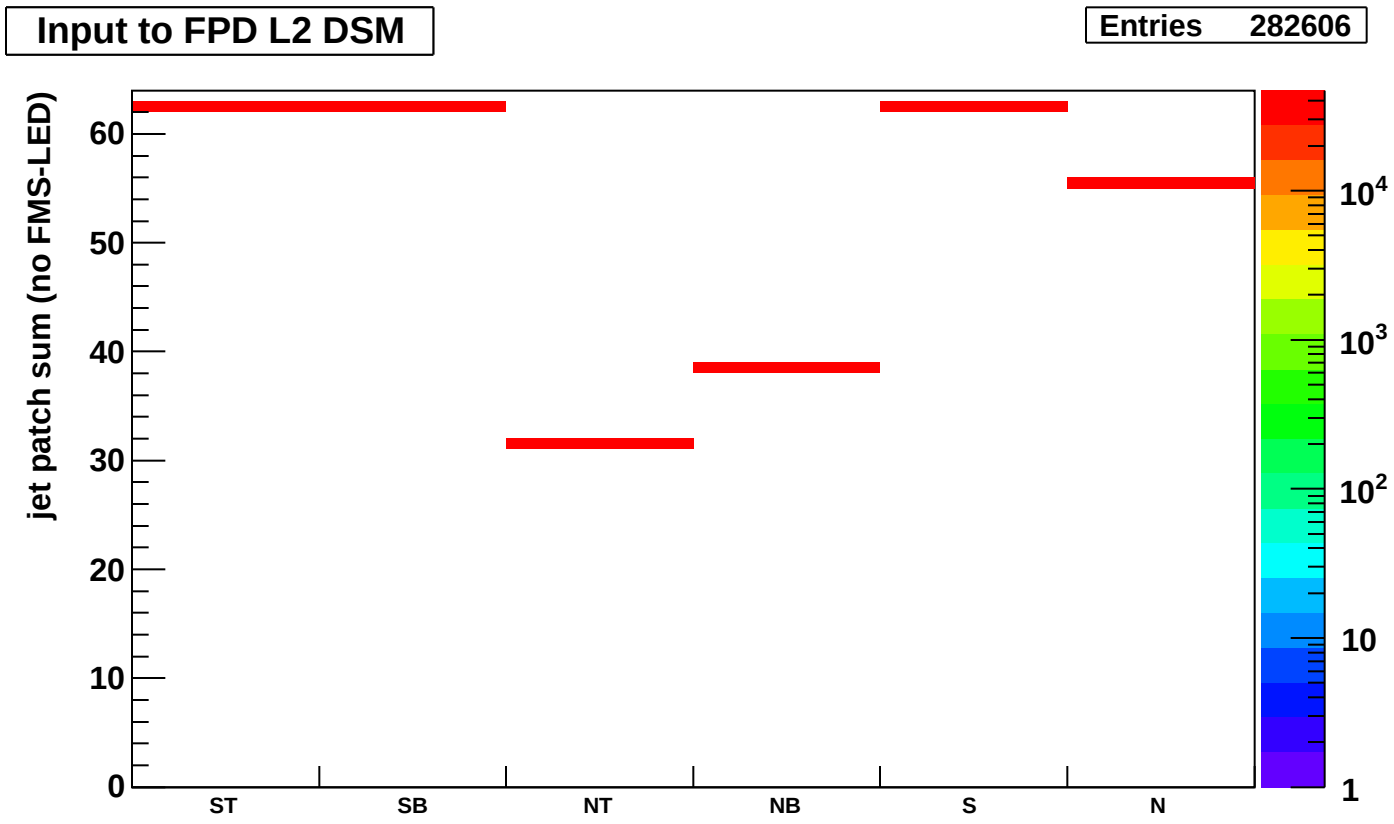

Input to FPD L2 DSM
Entries 518111
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

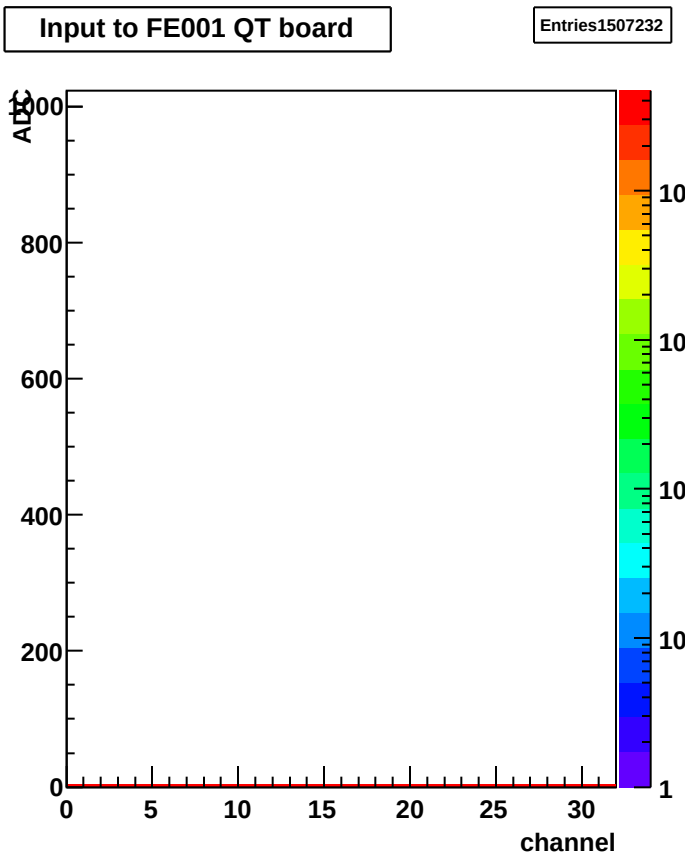

Input to FPD L2 DSM
Entries 141303
CL bits
47101
47101
47101
SMALL
LARGE-S
LARGE-N

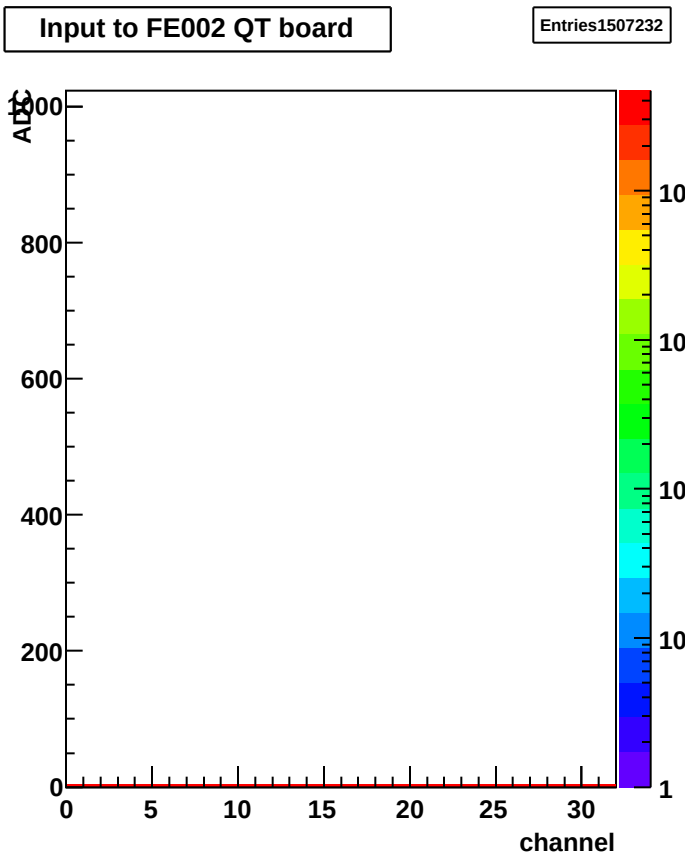

Input to FPD L2 DSM
Entries 141303
CL bits - simulated
47101
47101
47101
SMALL
LARGE-S
LARGE-N

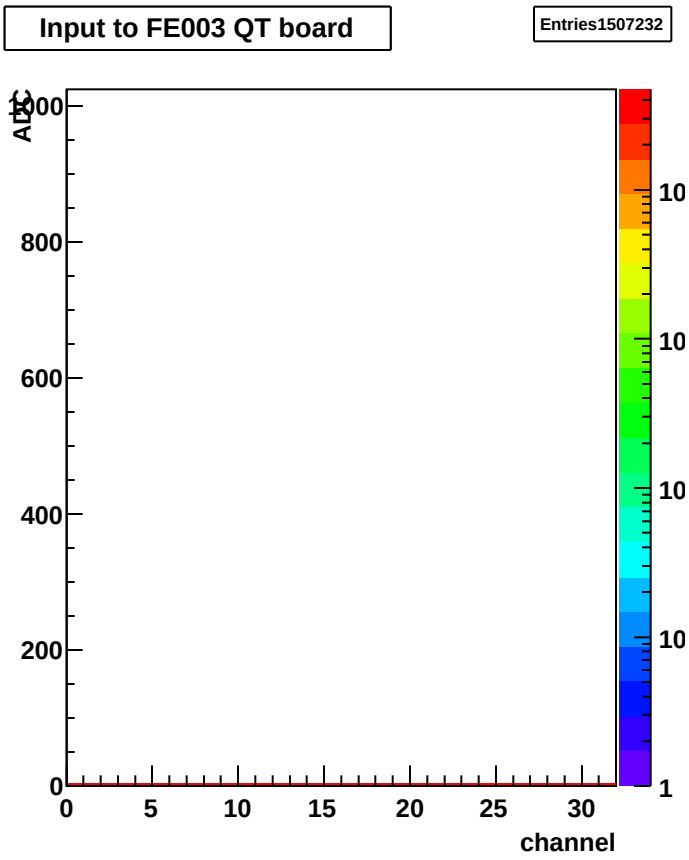

Input to FPD L2 DSM
Entries 141303
HT bits
47101
47101
47101
SMALL
LARGE-S
LARGE-N

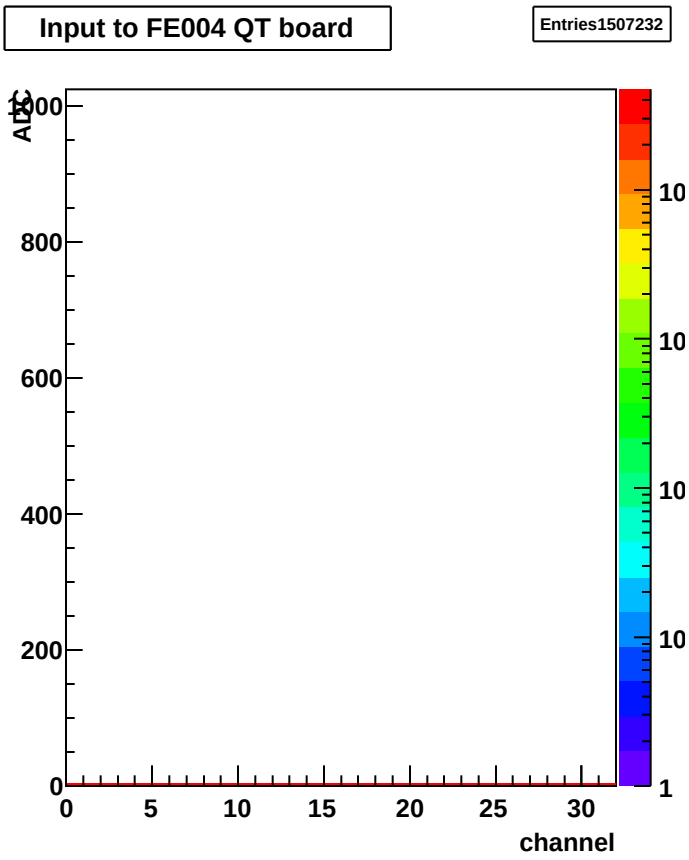

Input to FPD L2 DSM
Entries 141303
HT bits - simulated
47101
47101
47101
SMALL
LARGE-S
LARGE-N

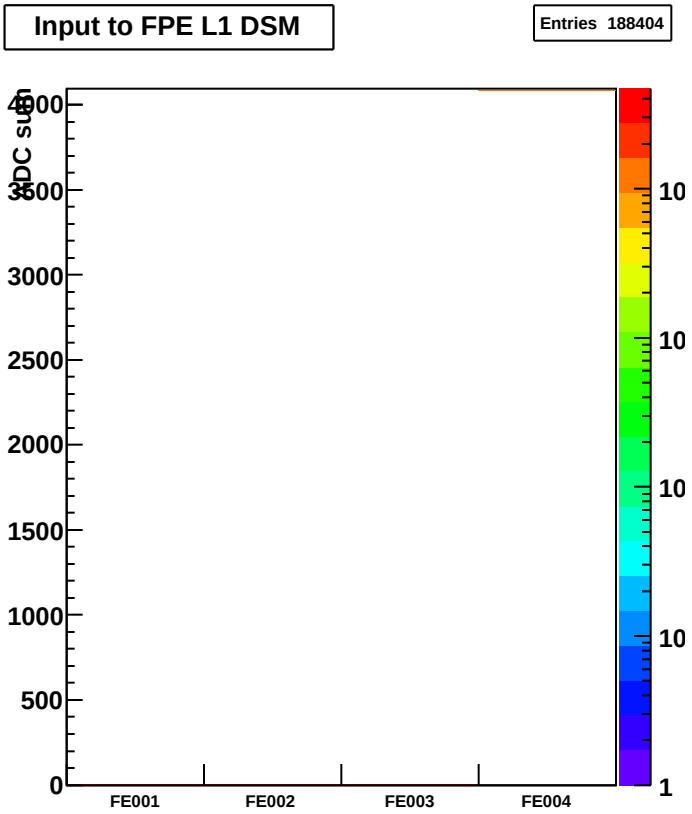

Input to FPD L2 DSM
Entries 282606
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

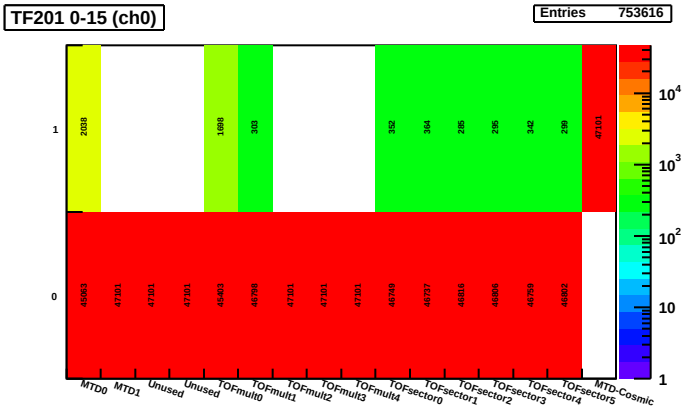

Input to FE001 QT board
Entries1507232
ADC
channel

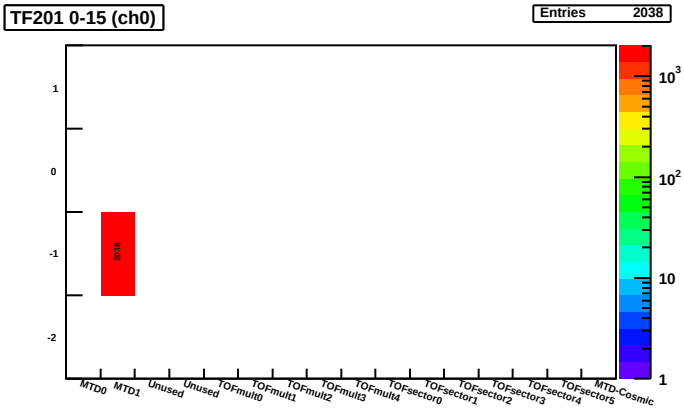

Input to FE002 QT board
Entries1507232
ADC
channel

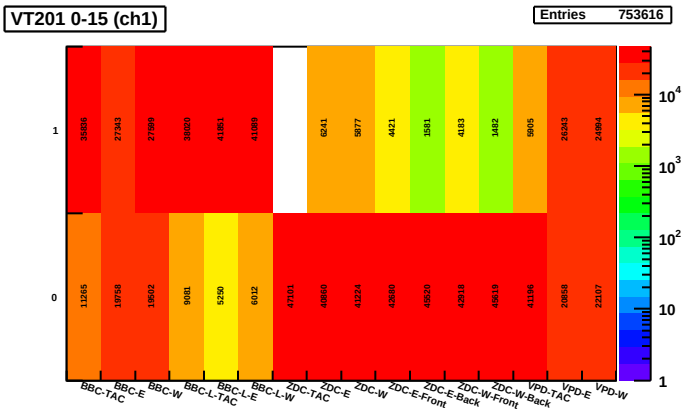

Input to FE003 QT board
Entries1507232
ADC
channel

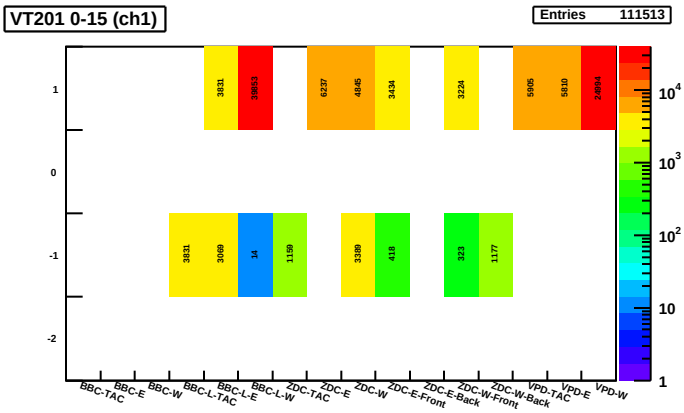

Input to FE004 QT board
Entries1507232
ADC
channel

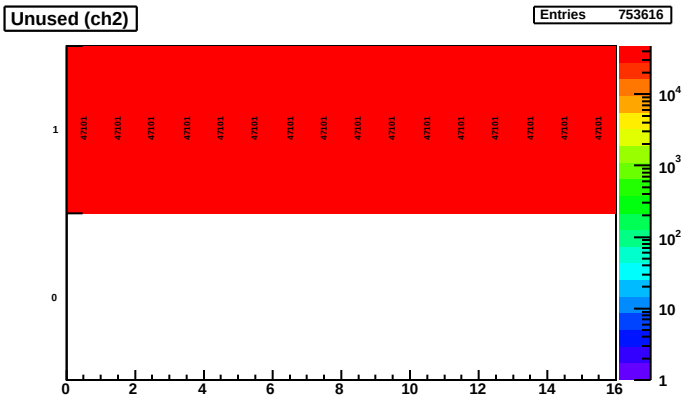

Input to FPE L1 DSM
Entries 188404
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

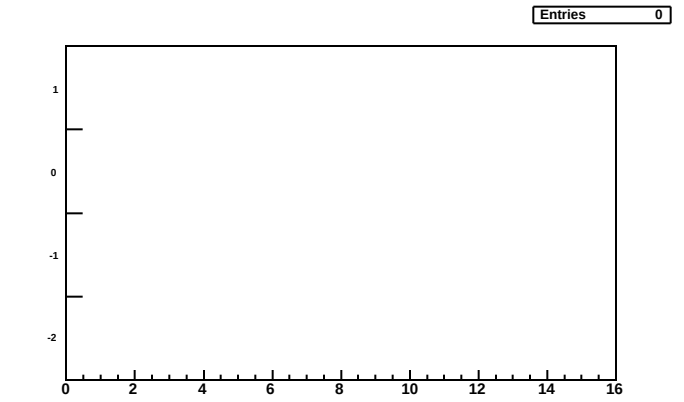

TF201 0-15 (ch0)
Entries 753616
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 2038
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 753616
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 111513
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 753616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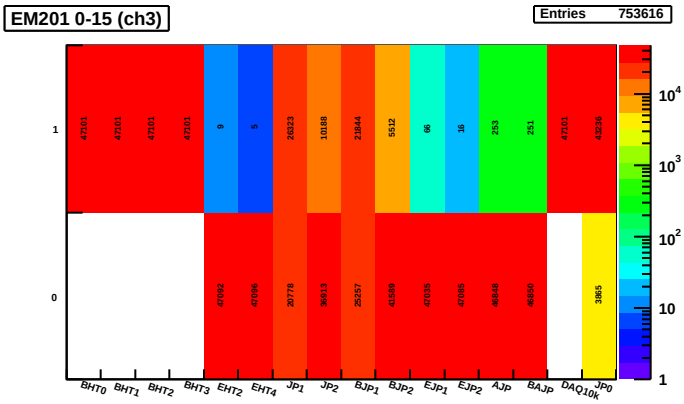
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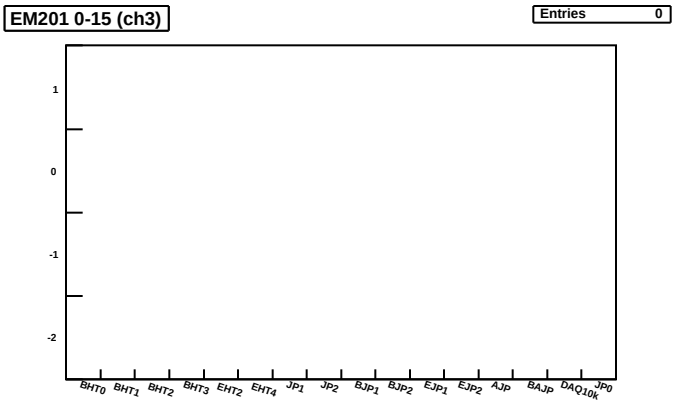
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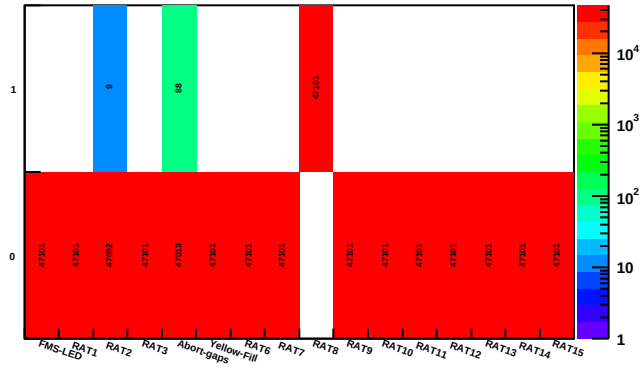
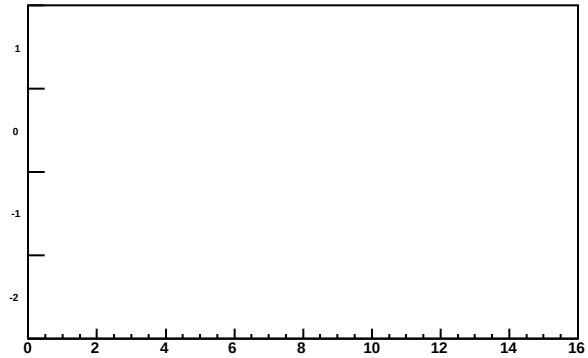
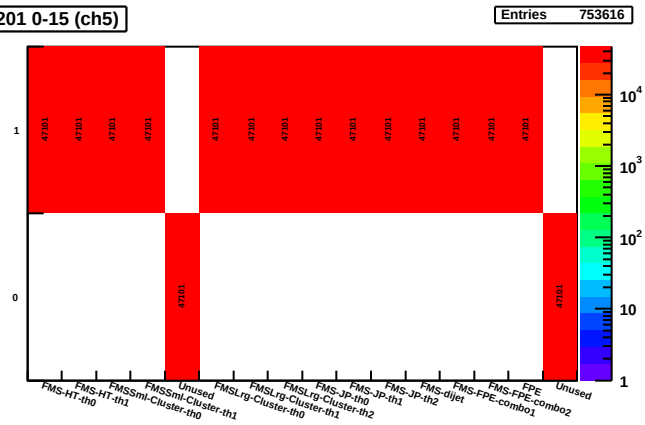
RAT board (ch4)





FP201 0-15 (ch5)



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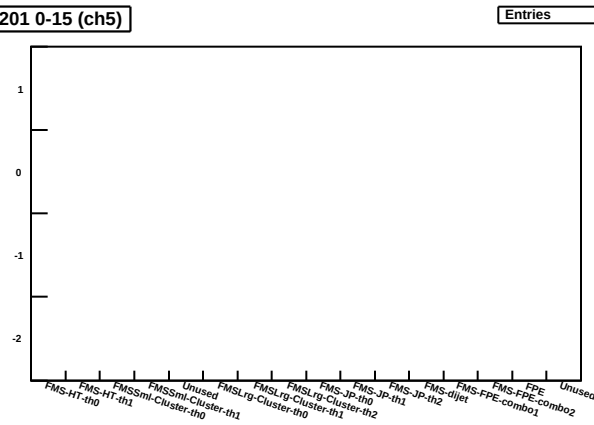

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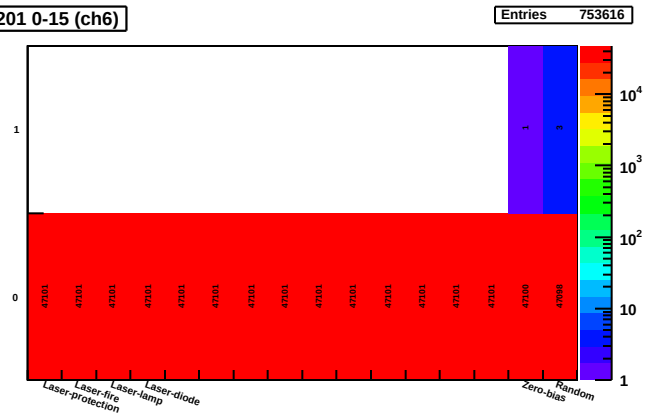

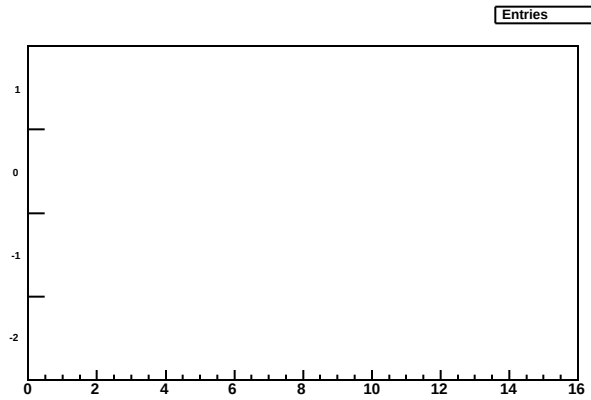
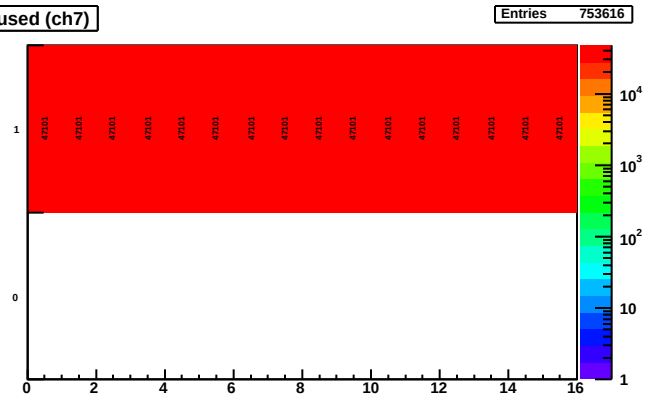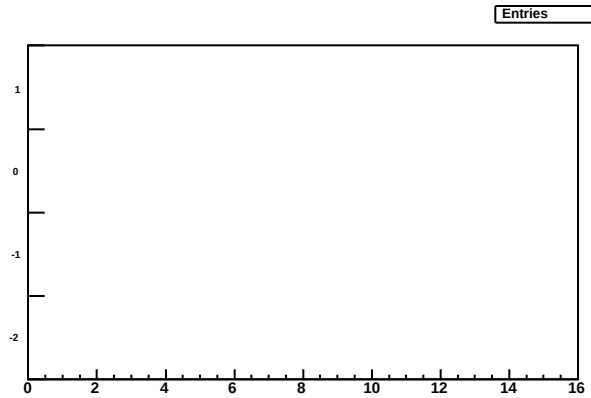
Unused (ch7)