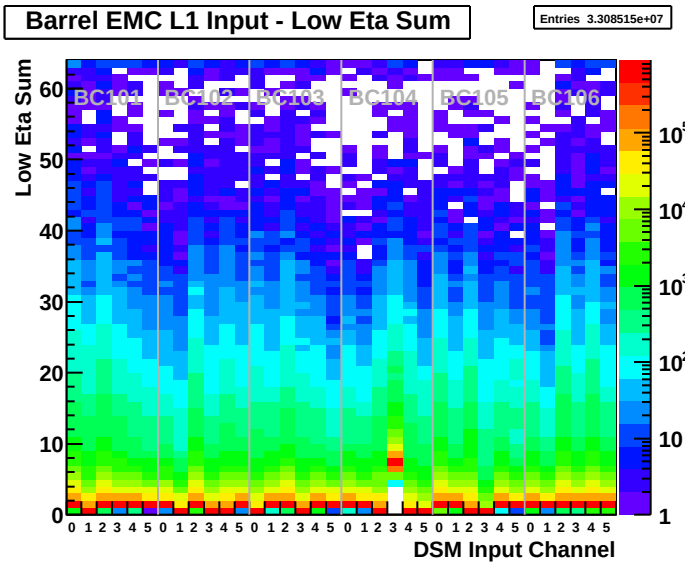
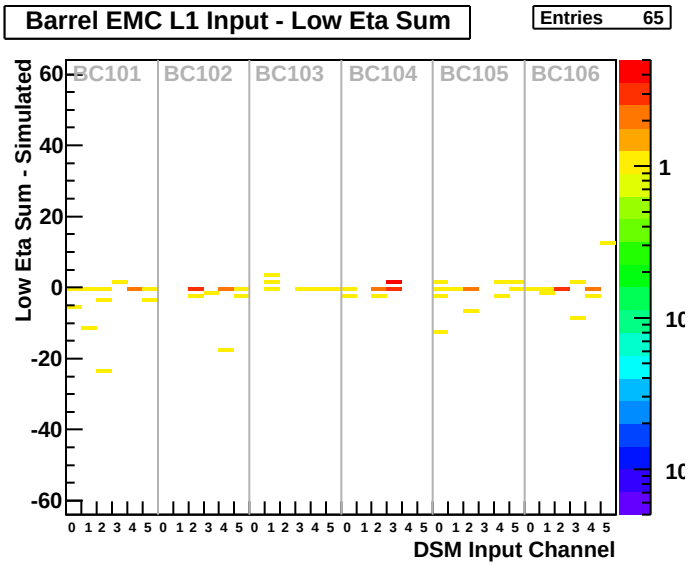
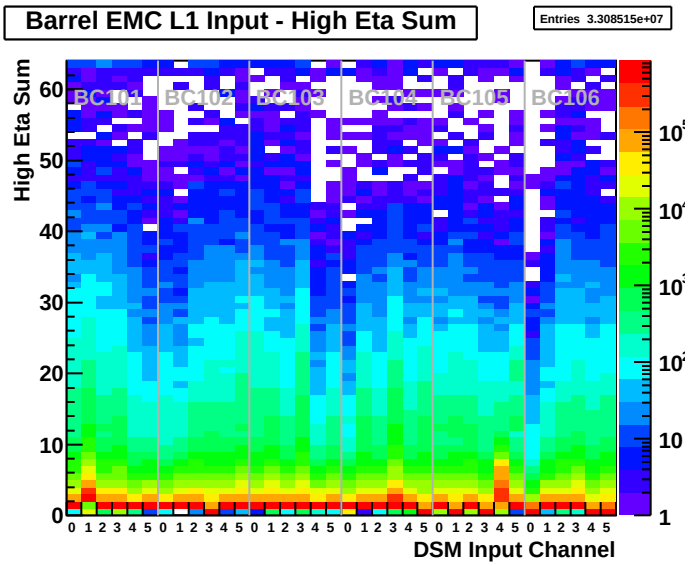
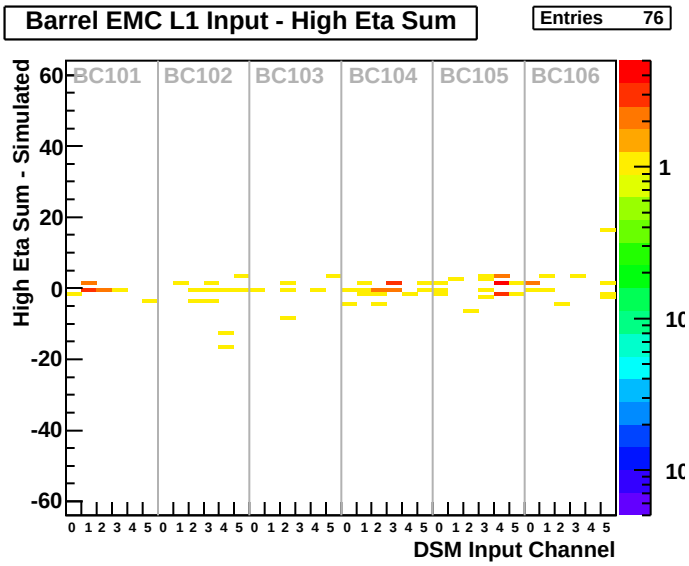
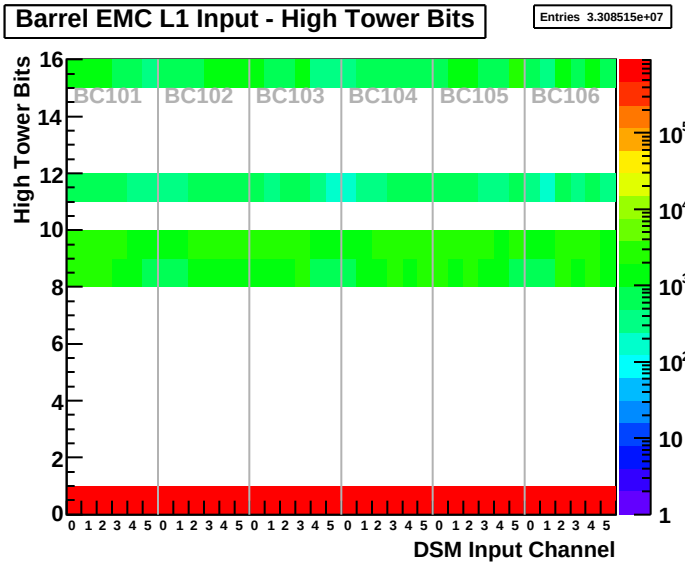
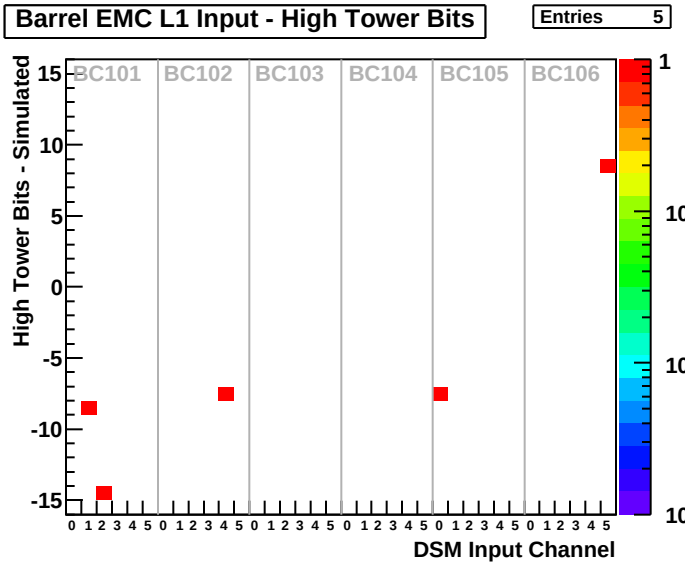

Barrel EMC L1 Input - Low Eta Sum
Entries 3.308515e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

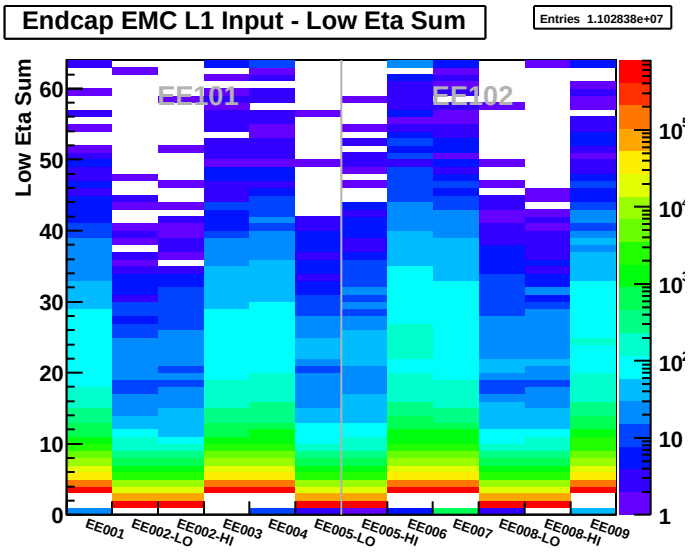

Barrel EMC L1 Input - Low Eta Sum
Entries 65
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

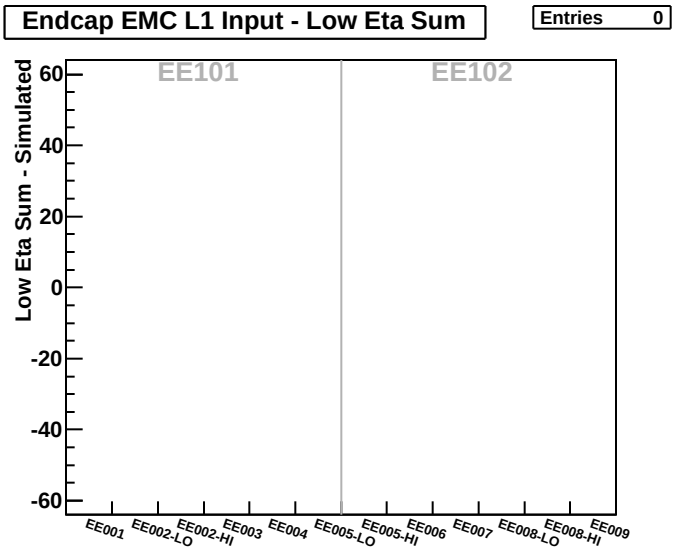

Barrel EMC L1 Input - High Eta Sum
Entries 3.308515e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

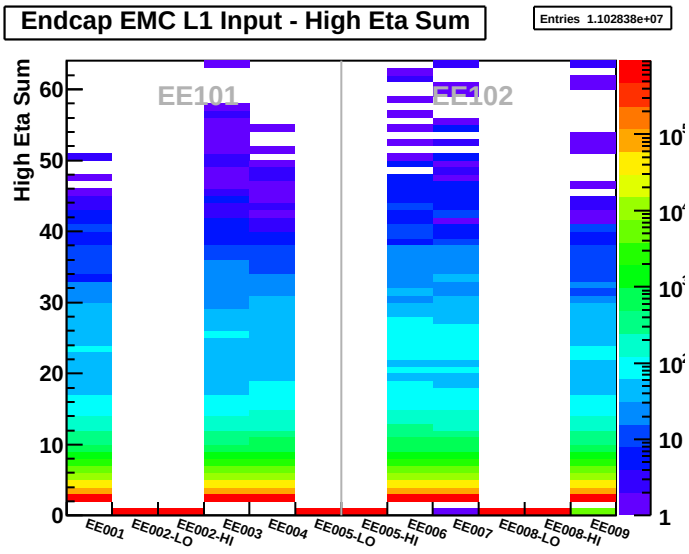

Barrel EMC L1 Input - High Eta Sum
Entries 76
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

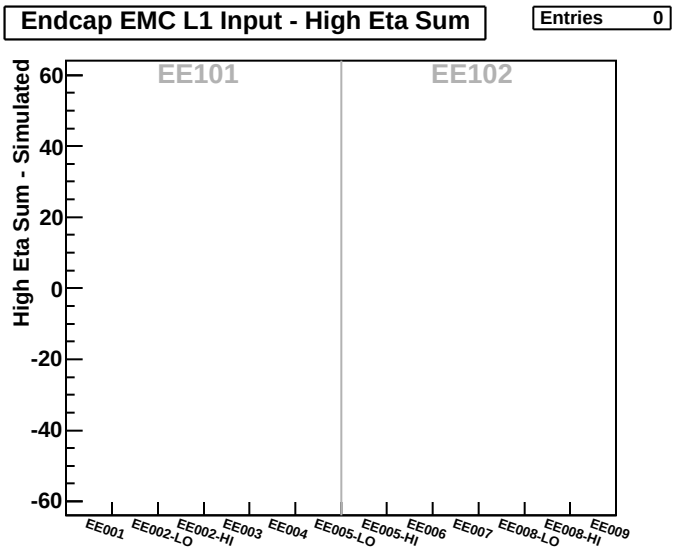

Barrel EMC L1 Input - High Tower Bits
Entries 3.308515e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

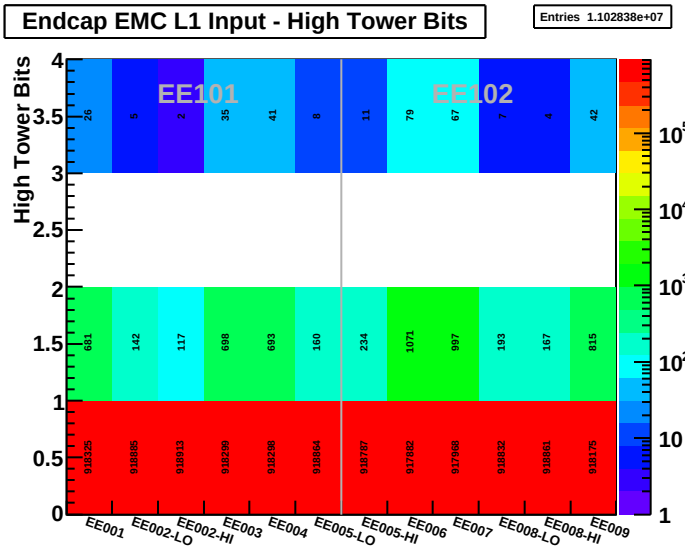

Barrel EMC L1 Input - High Tower Bits
Entries 5
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

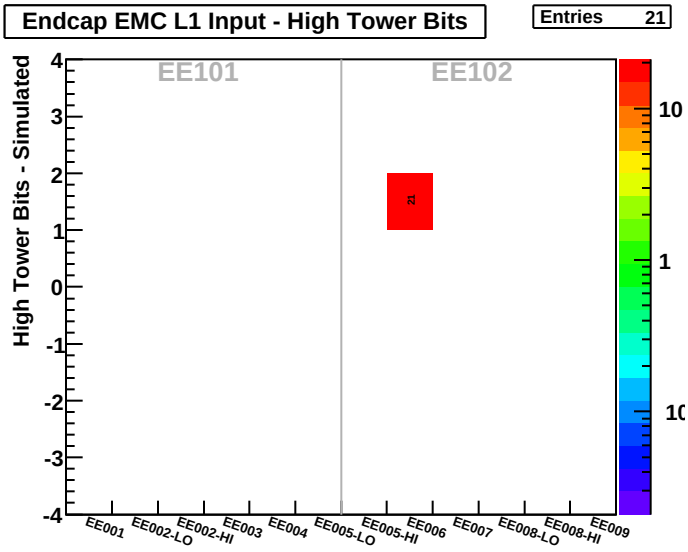

Endcap EMC L1 Input - Low Eta Sum
Entries 1.102838e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

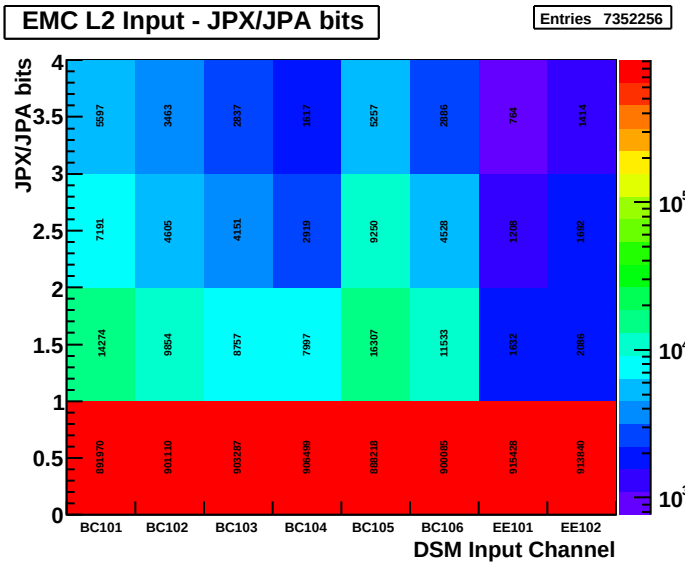

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

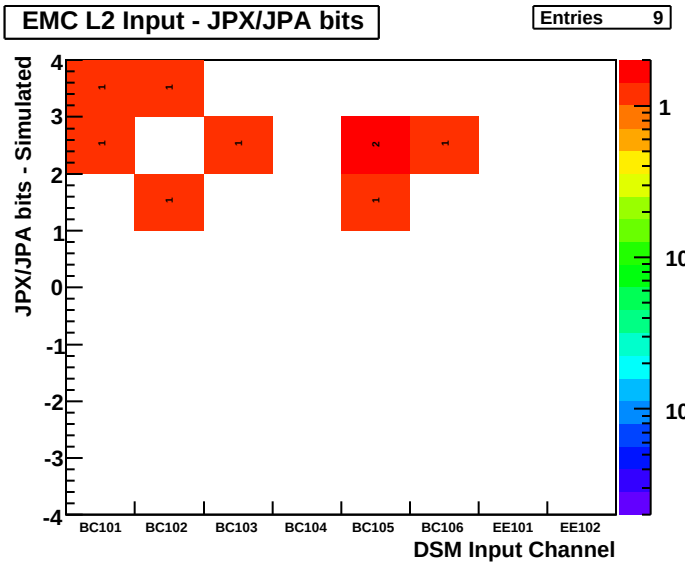

Endcap EMC L1 Input - High Eta Sum
Entries 1.102838e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

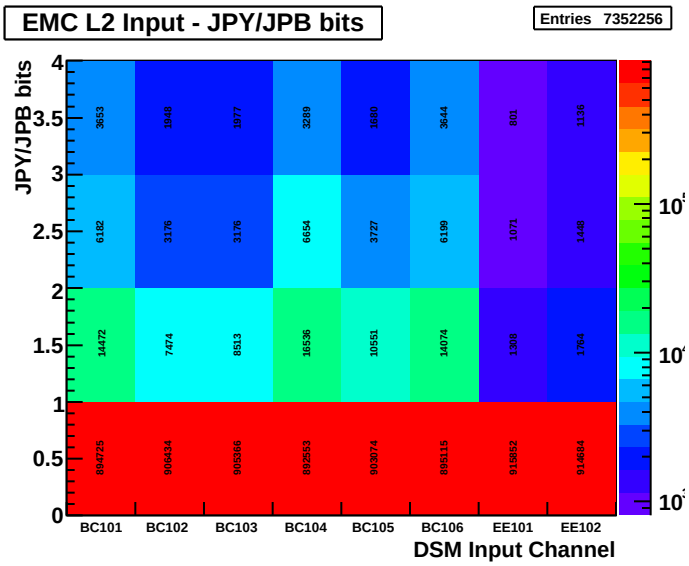

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

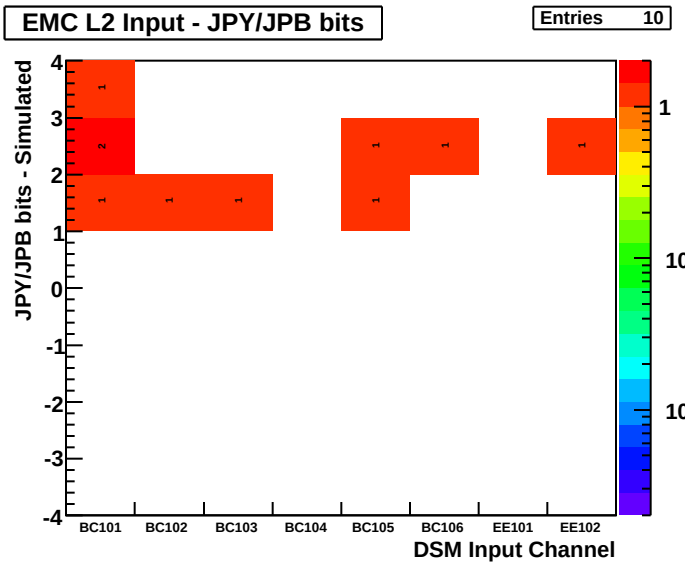

Endcap EMC L1 Input - High Tower Bits
Entries 1.102838e+07
High Tower Bits
EE101
EE102
26 5 2 35 41 8 11 79 67 7 4 42
681 142 117 698 693 160 234 1071 997 193 167 815
918325 918885 918913 918299 918298 918864 918787 917882 917968 918832 918861 918175
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

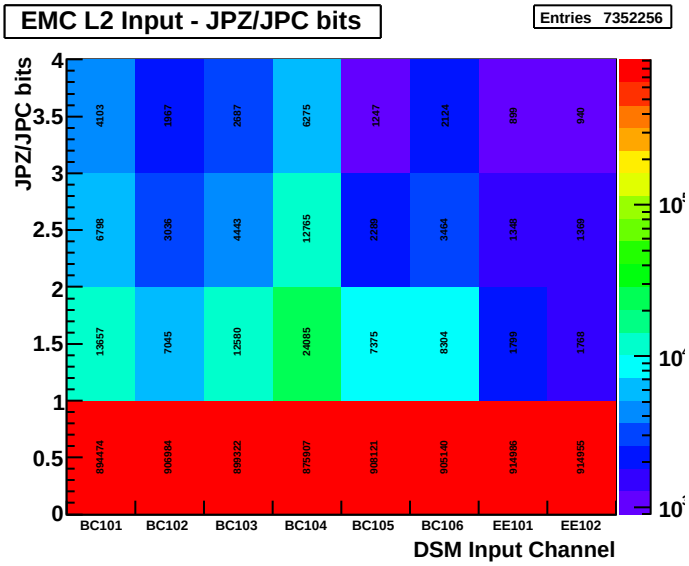

Endcap EMC L1 Input - High Tower Bits
Entries 21
High Tower Bits - Simulated
EE101
EE102
21
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

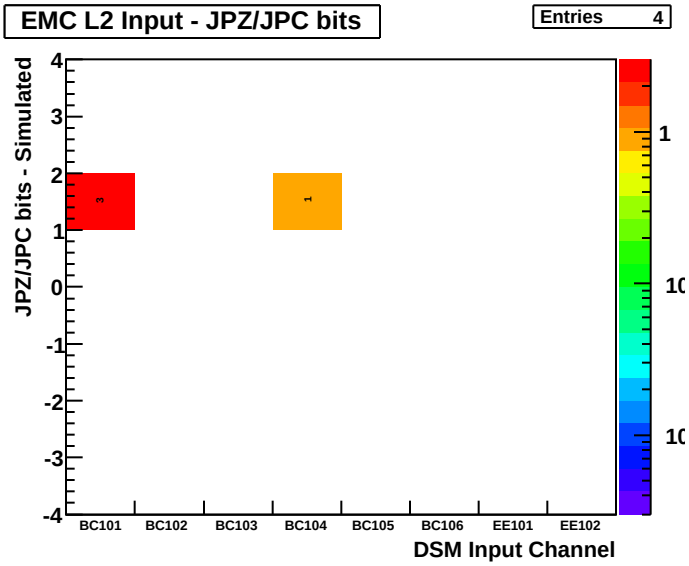

EMC L2 Input - JPX/JPA bits
Entries 7352256
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
5597 3463 2837 1617 5257 2886 764 1414
7191 4605 4151 2919 9250 4528 1208 1692
14274 9854 8757 7997 16307 11533 1832 2086
891970 901110 903287 906499 888218 900085 915428 913840

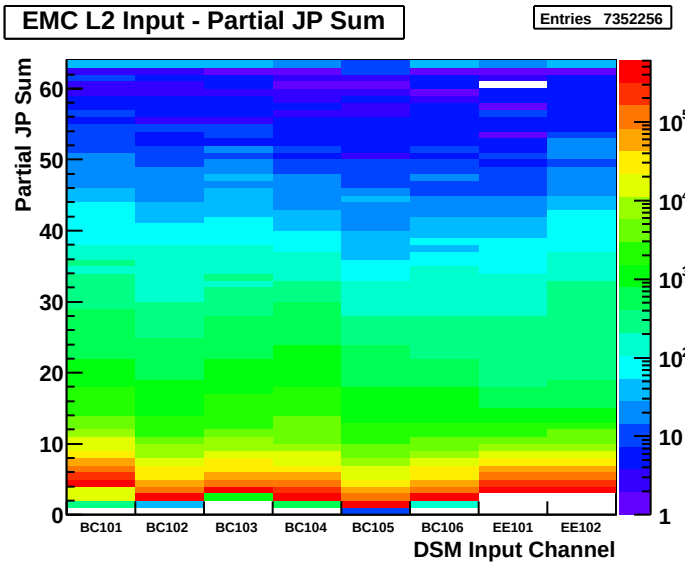

EMC L2 Input - JPX/JPA bits
Entries 9
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

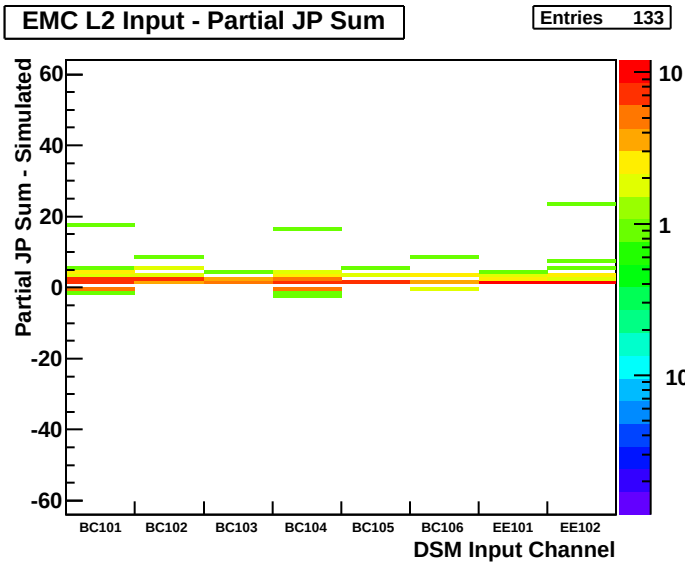

EMC L2 Input - JPY/JPB bits
Entries 7352256
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3653 1948 1977 3289 1680 3644 801 1136
6182 3176 3176 6654 3727 6199 1071 1448
14472 7474 8513 16536 10551 14074 1308 1764
894725 906434 905366 892553 903074 895115 915852 914684

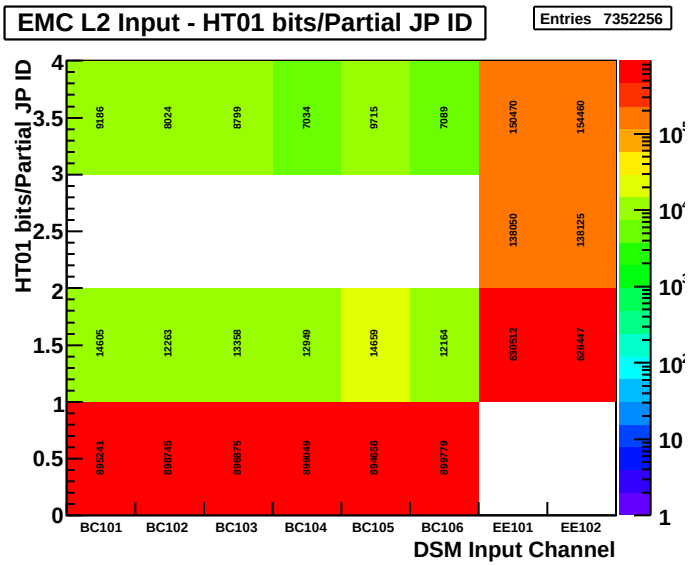

EMC L2 Input - JPY/JPB bits
Entries 10
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

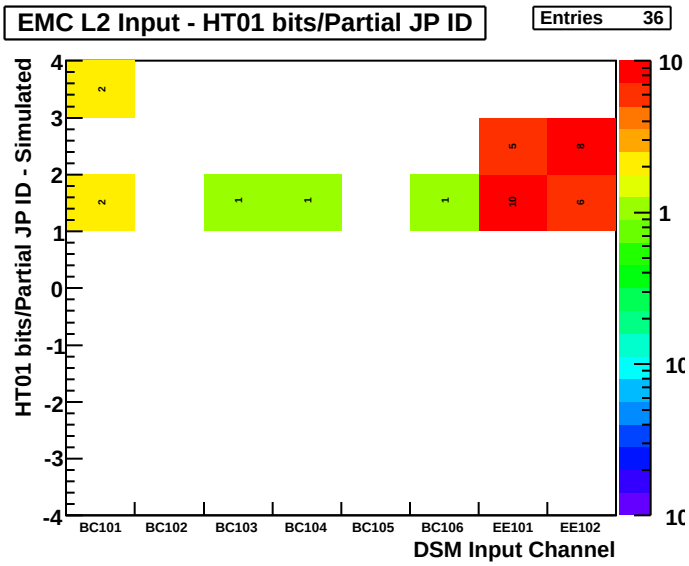

EMC L2 Input - JPZ/JPC bits
Entries 7352256
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4103 1967 2687 6275 1247 2124 899 940
6798 3036 4443 12765 2289 3464 1348 1369
13657 7045 12580 24085 7375 8304 1799 1768
894474 906394 899322 875907 908121 905140 914986 914955

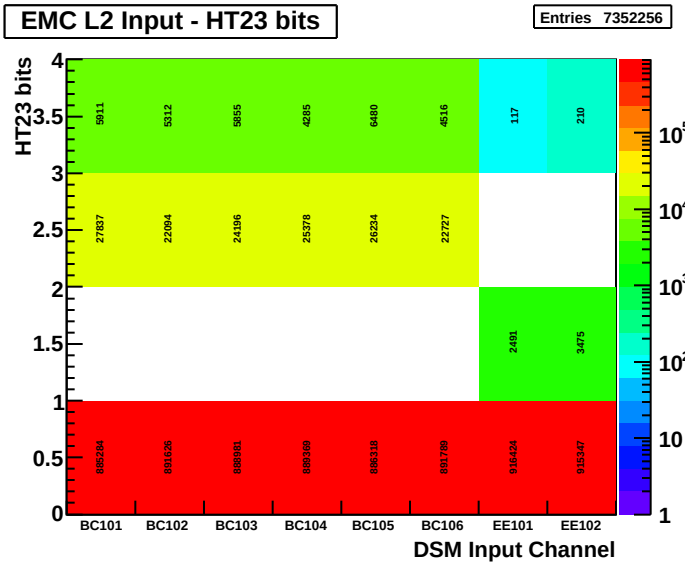

EMC L2 Input - JPZ/JPC bits
Entries 4
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

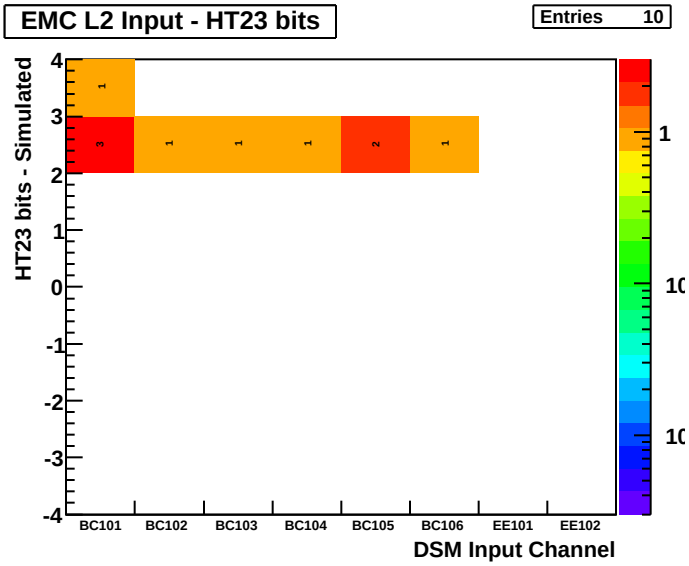

EMC L2 Input - Partial JP Sum
Entries 7352256
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

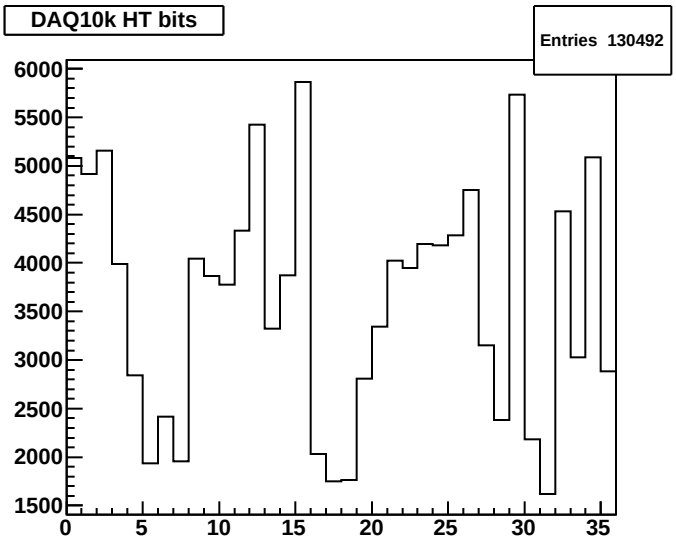

EMC L2 Input - Partial JP Sum
Entries 133
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

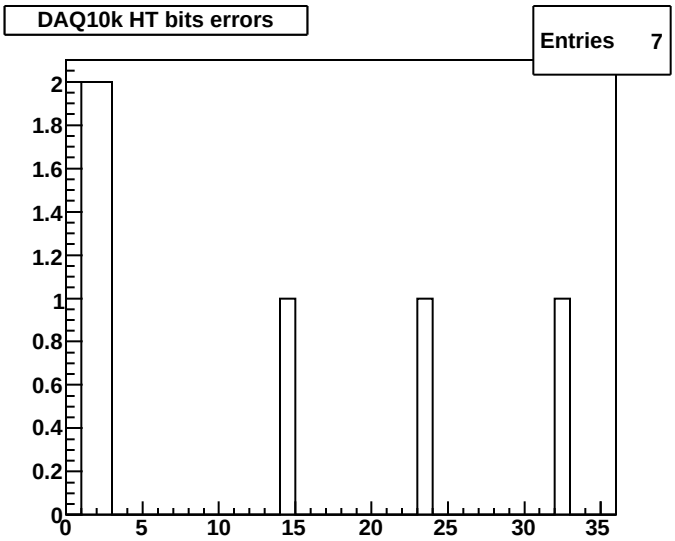

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7352256
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

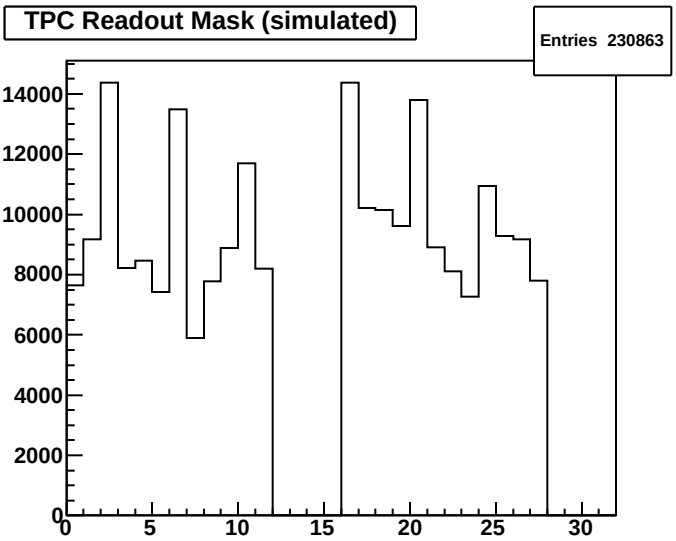

EMC L2 Input - HT01 bits/Partial JP ID
Entries 36
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

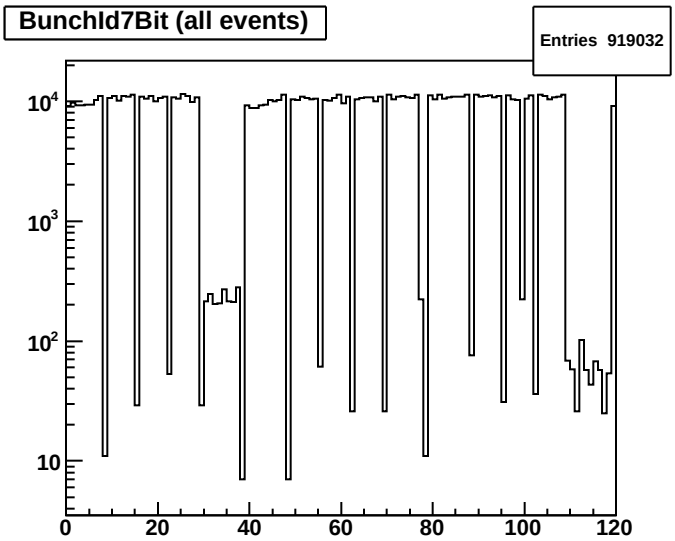

EMC L2 Input - HT23 bits
Entries 7352256
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

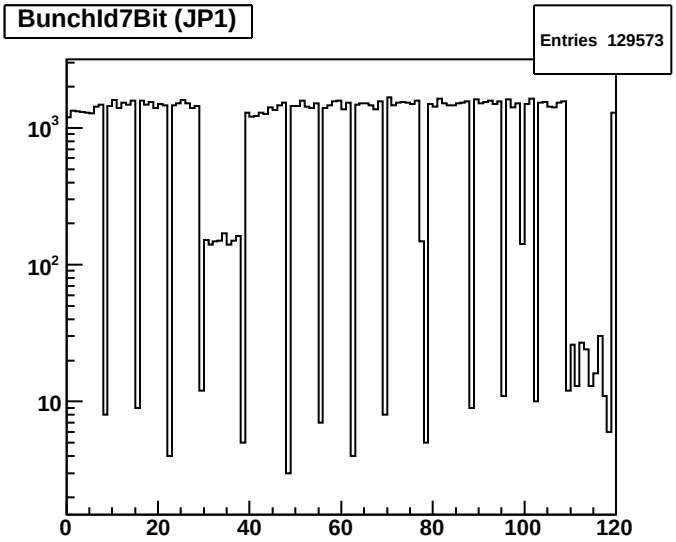

EMC L2 Input - HT23 bits
Entries 10
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

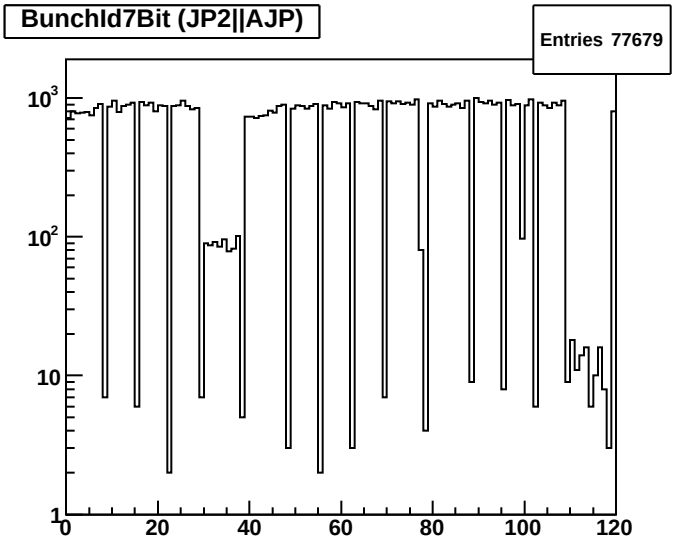

DAQ10k HT bits
Entries 130492

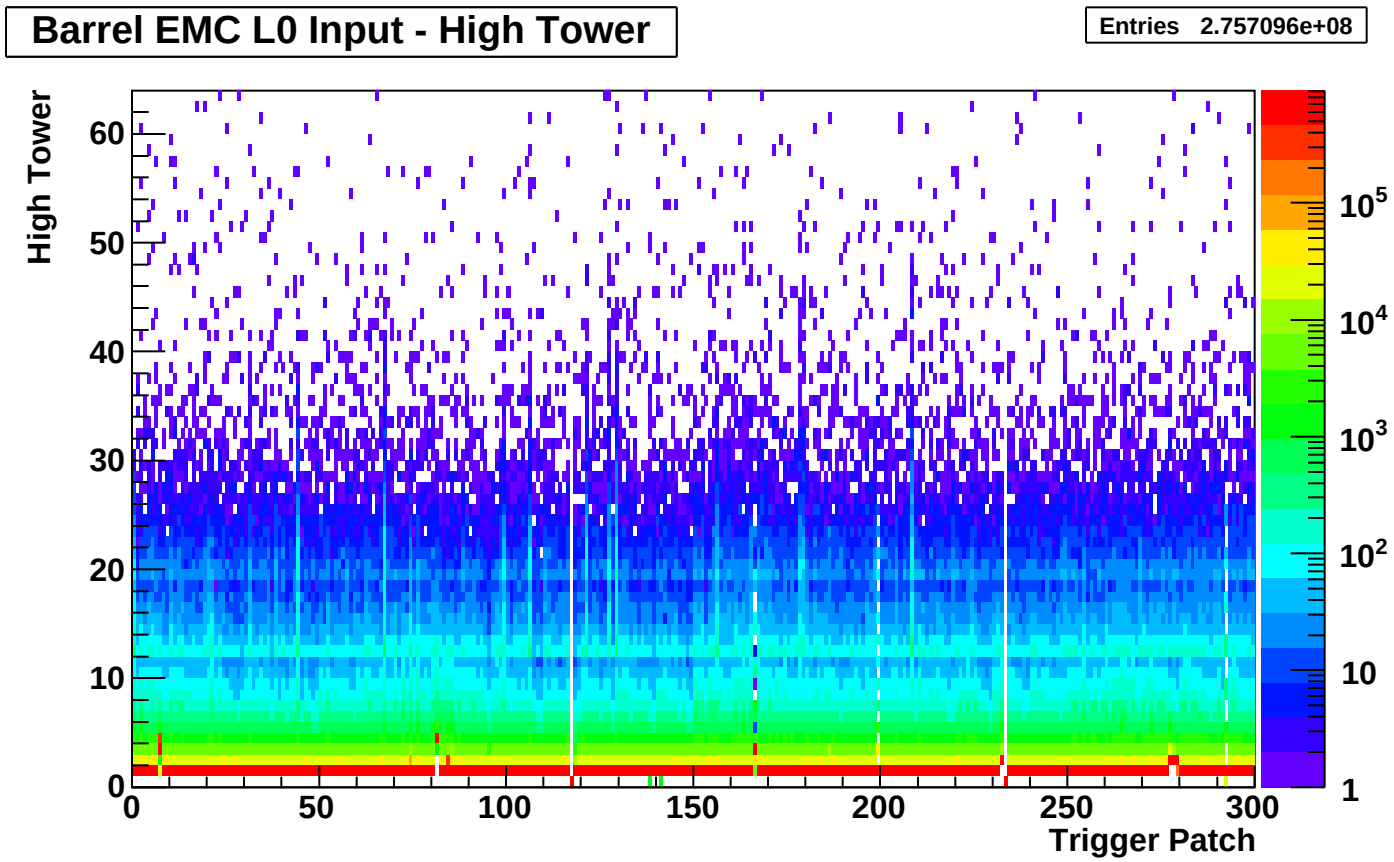

DAQ10k HT bits errors
Entries 7

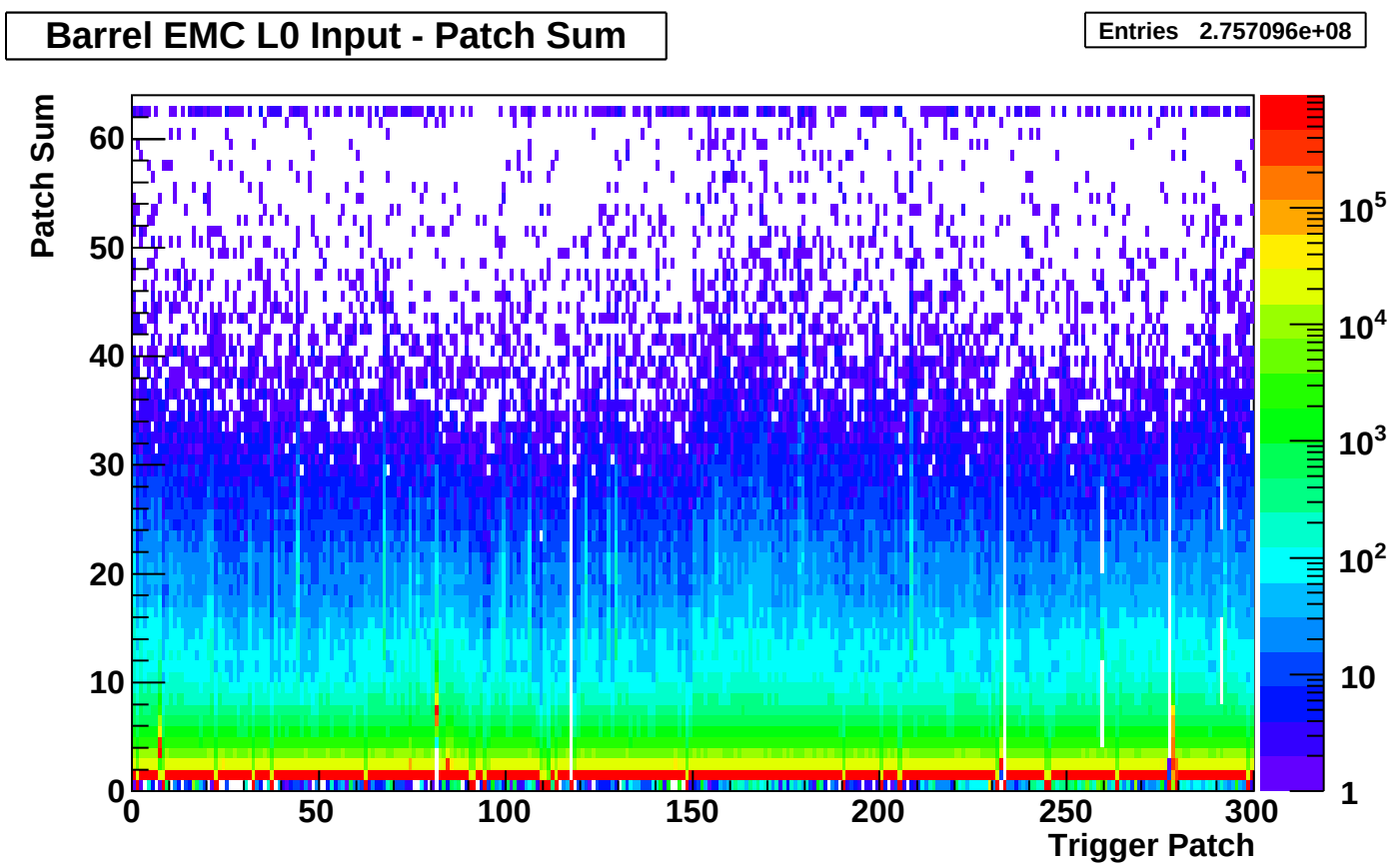

TPC Readout Mask (simulated)
Entries 230863

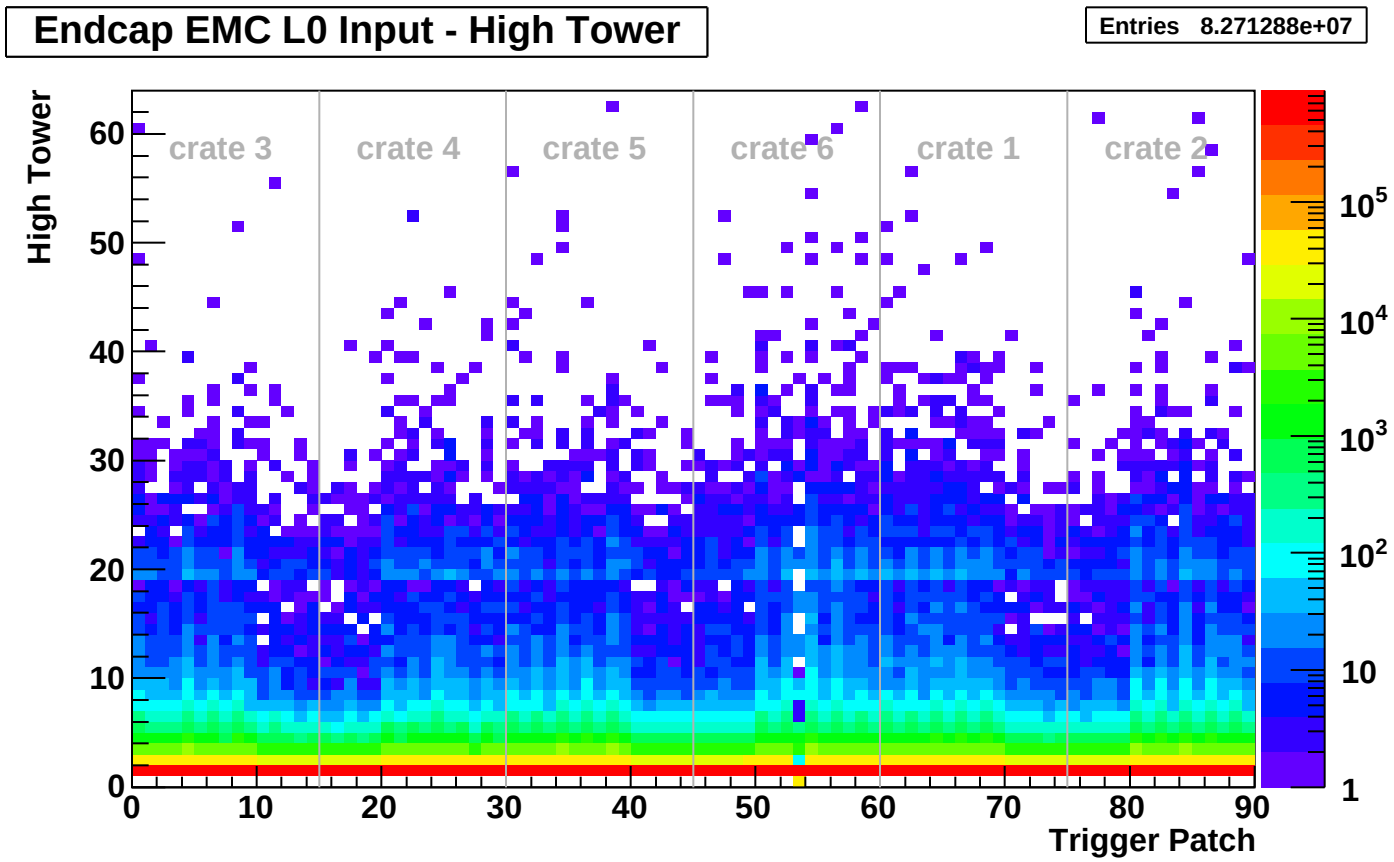

BunchId7Bit (all events)
Entries 919032

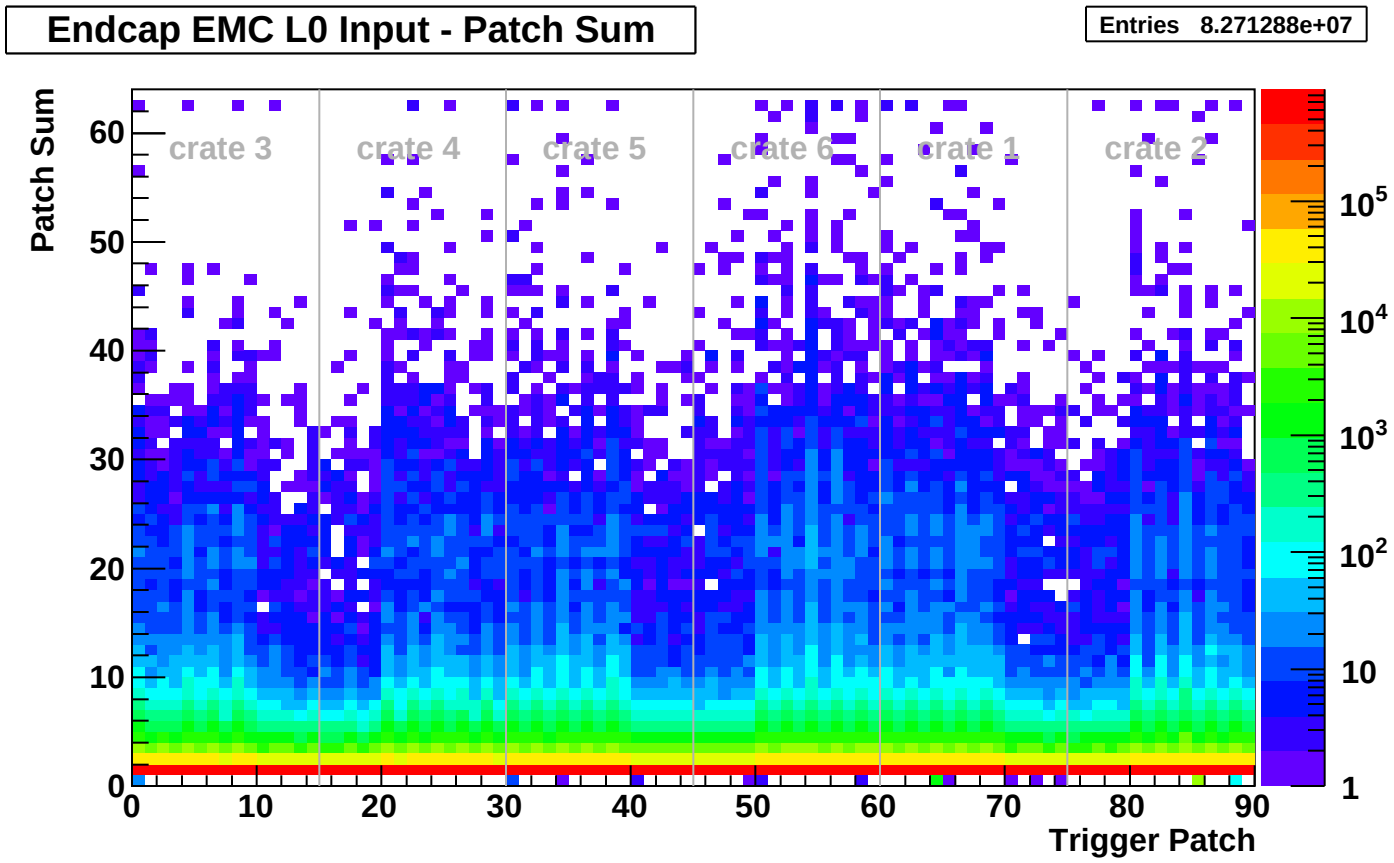

BunchId7Bit (JP1)
Entries 129573

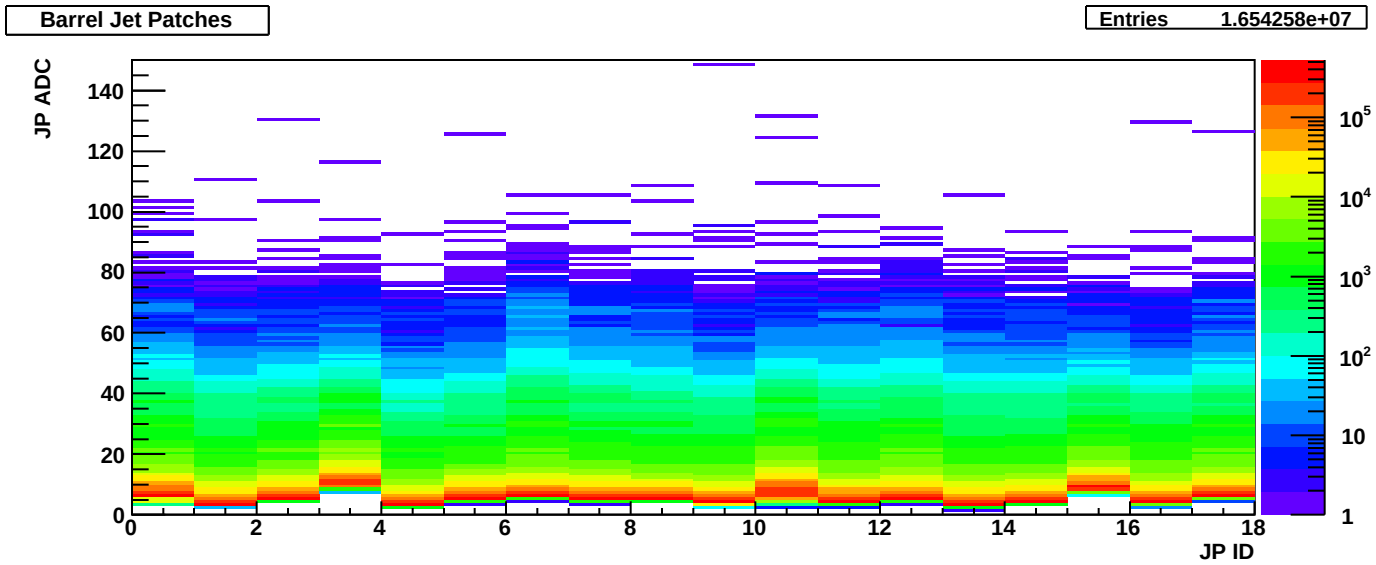

BunchId7Bit (JP2||AJP)
Entries 77679

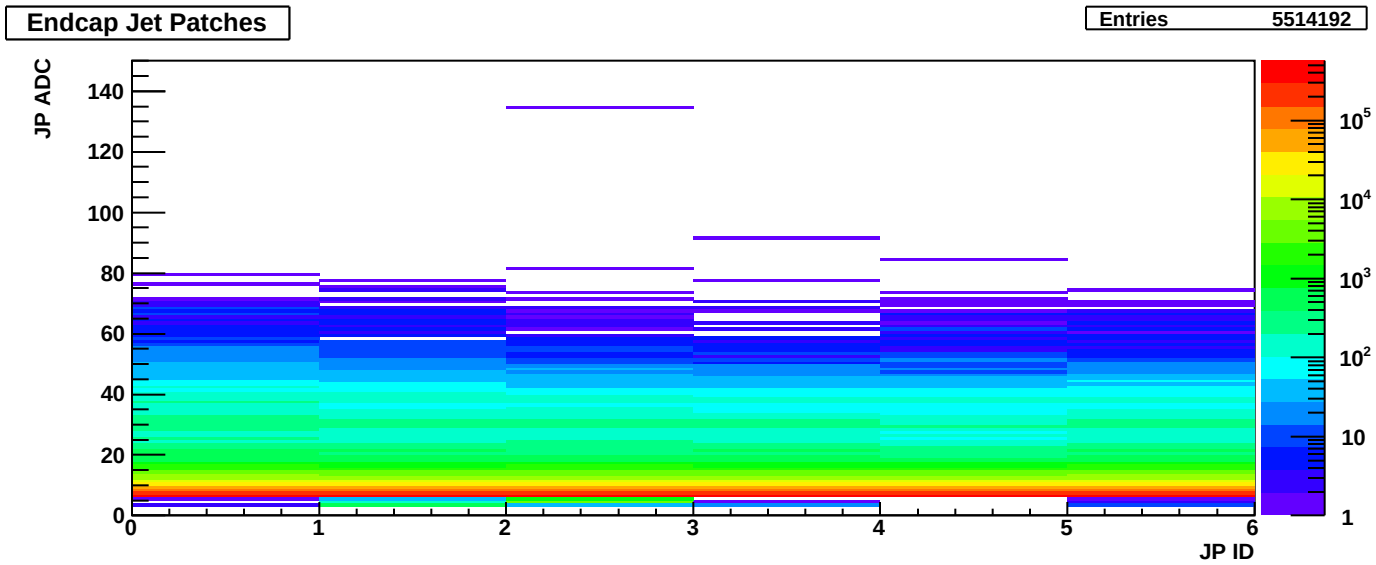

Barrel EMC L0 Input - High Tower
Entries 2.757096e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

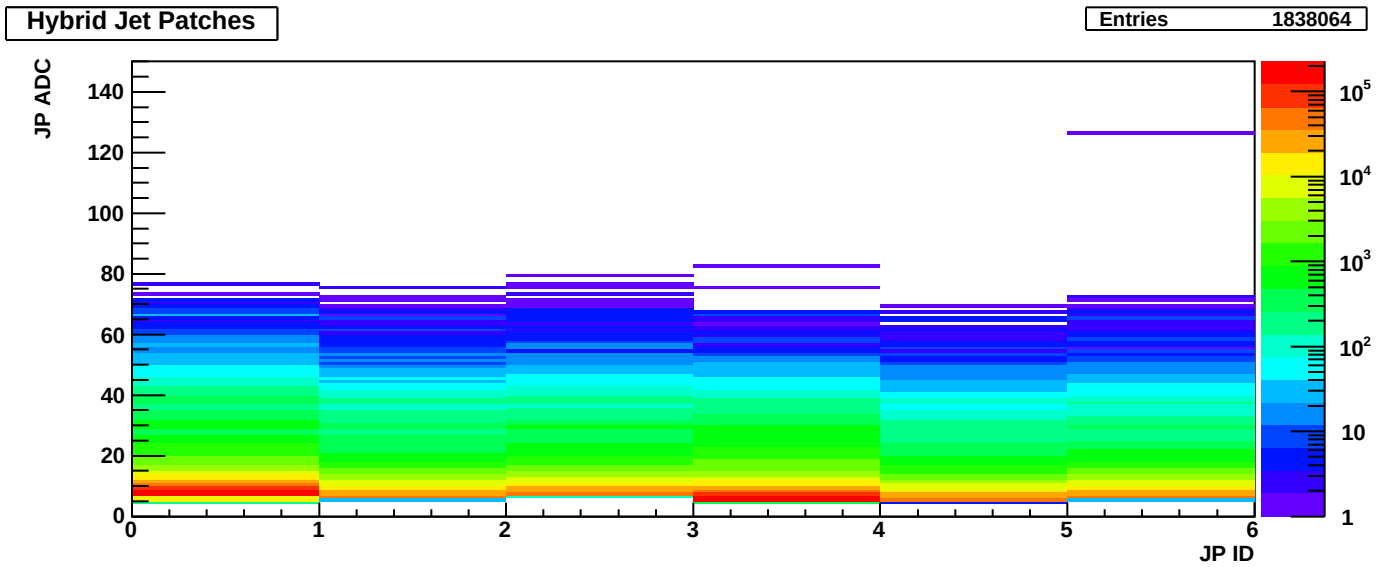

Barrel EMC L0 Input - Patch Sum
Entries 2.757096e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

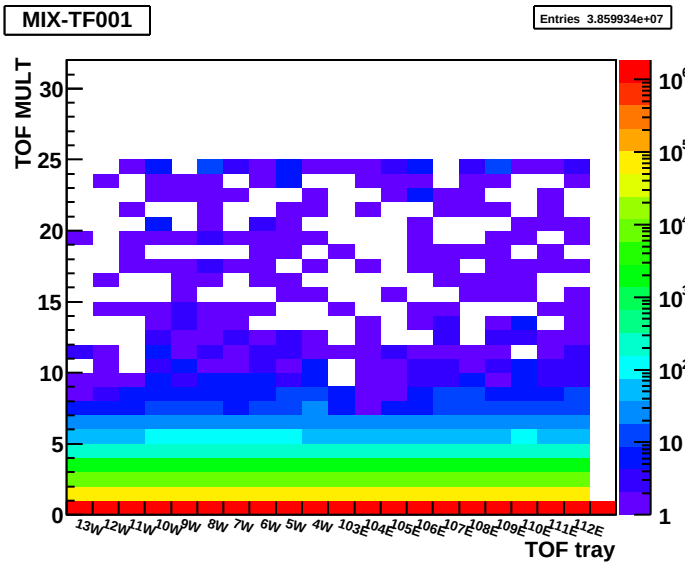

Endcap EMC L0 Input - High Tower
Entries 8.271288e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

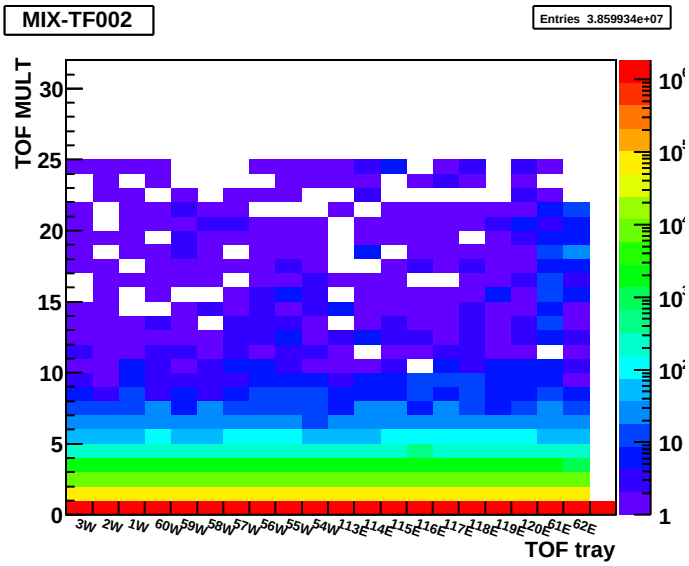

Endcap EMC L0 Input - Patch Sum
Entries 8.271288e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

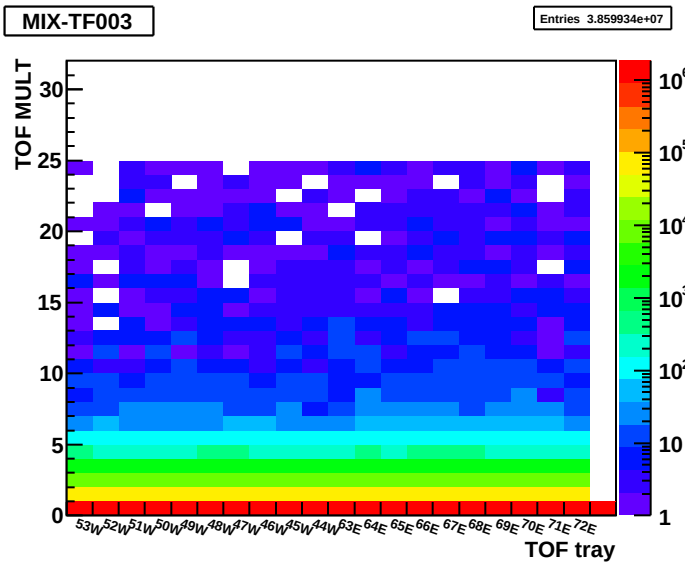

Barrel Jet Patches
Entries 1.654258e+07
JP ADC
JP ID

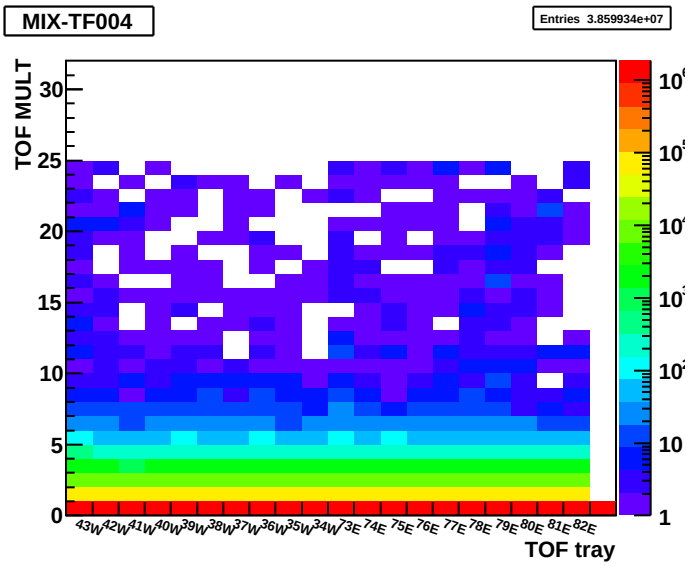

Endcap Jet Patches
Entries 5514192
JP ADC
JP ID

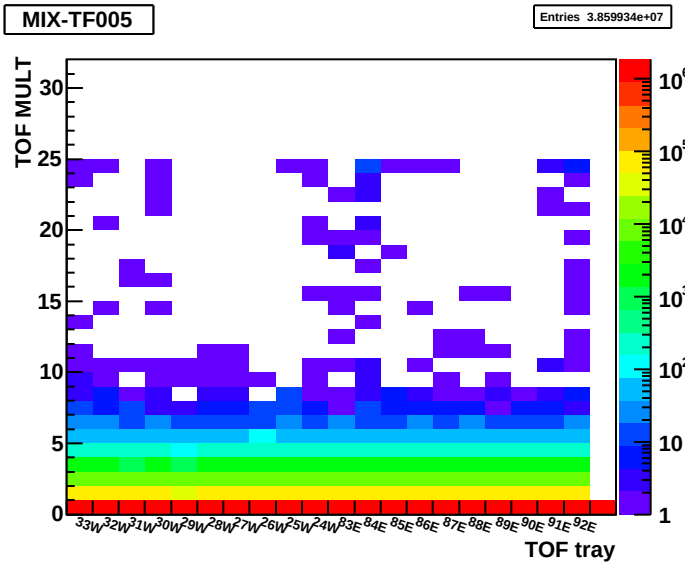

Hybrid Jet Patches
Entries 1838064
JP ADC
JP ID

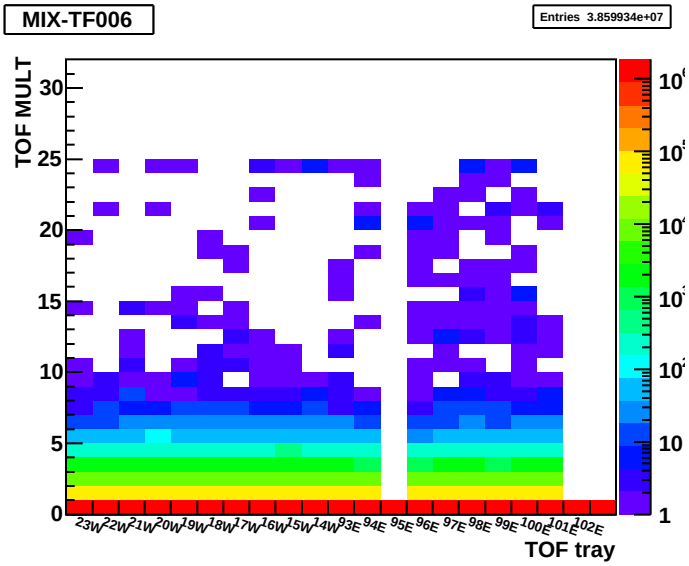

MIX-TF001
Entries 3.859934e+07
TOF MULT
TOF tray

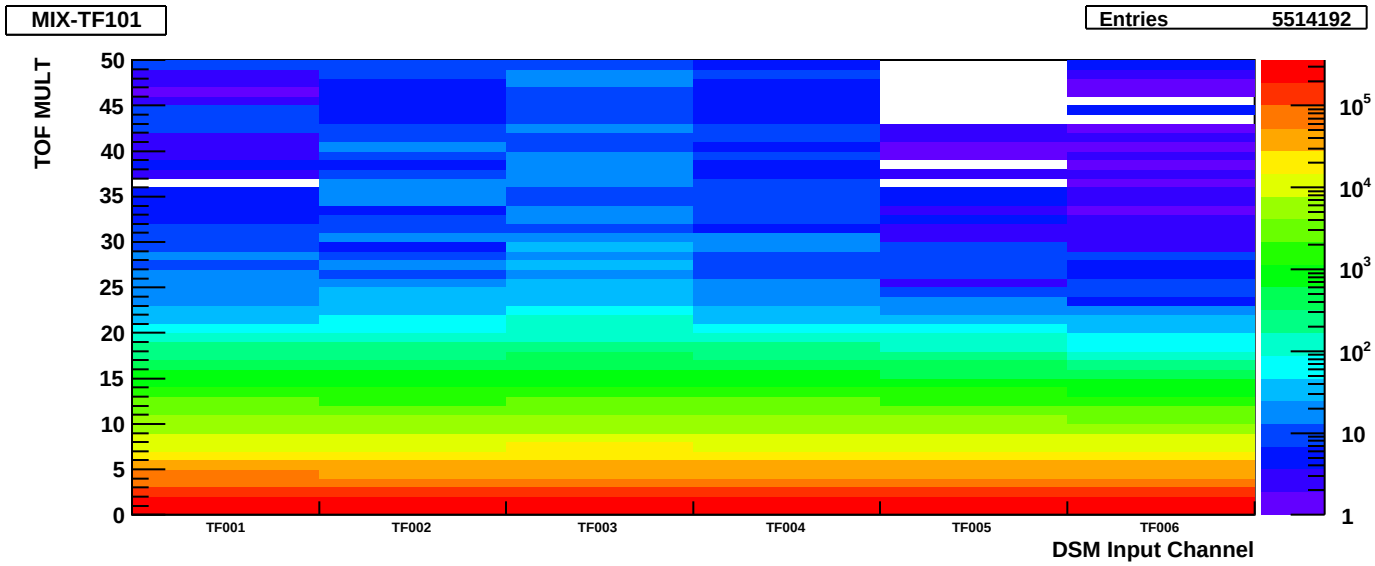

MIX-TF002
Entries 3.859934e+07
TOF MULT
TOF tray

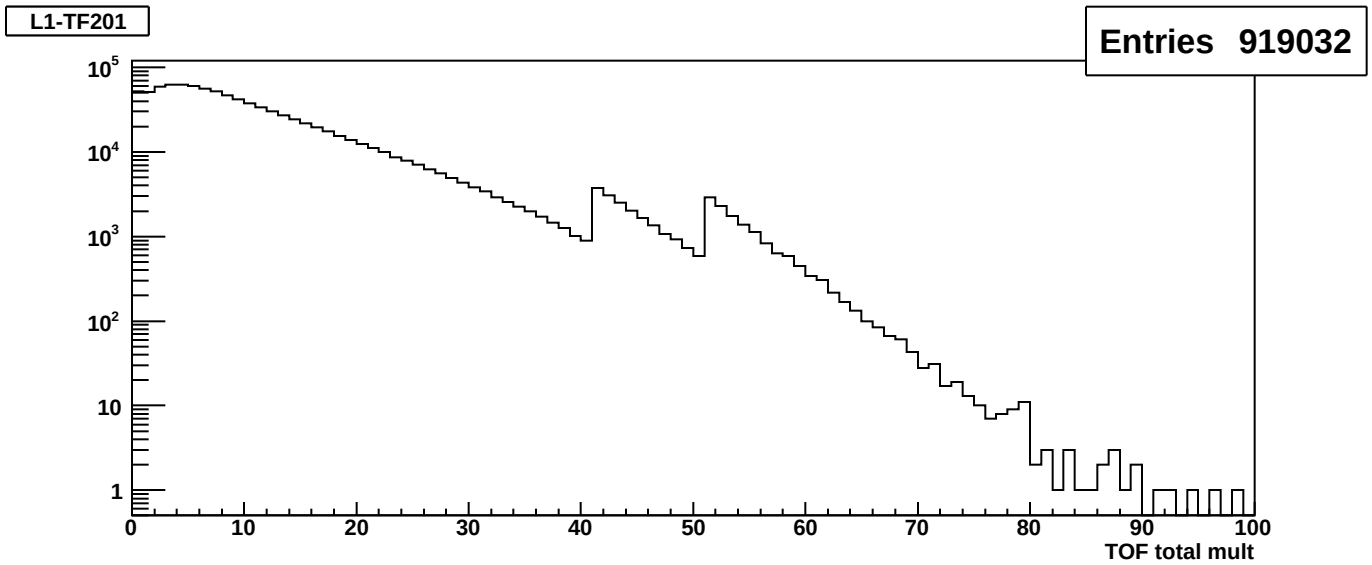

MIX-TF003
Entries 3.859934e+07
TOF MULT
TOF tray

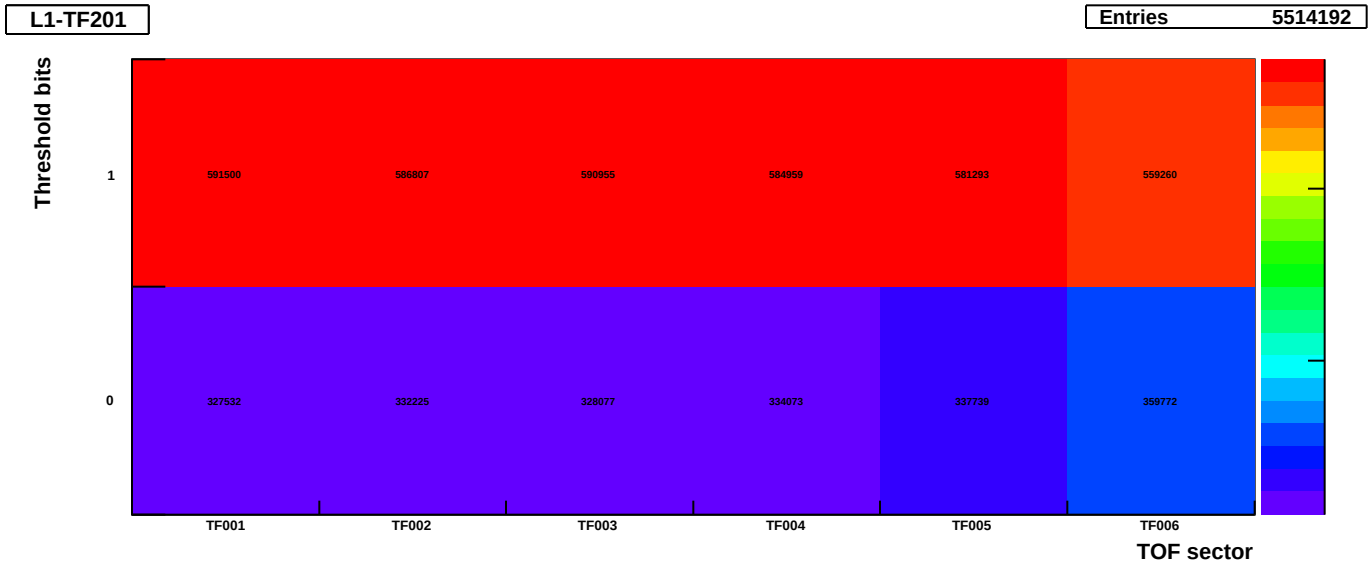

MIX-TF004
Entries 3.859934e+07
TOF MULT
TOF tray

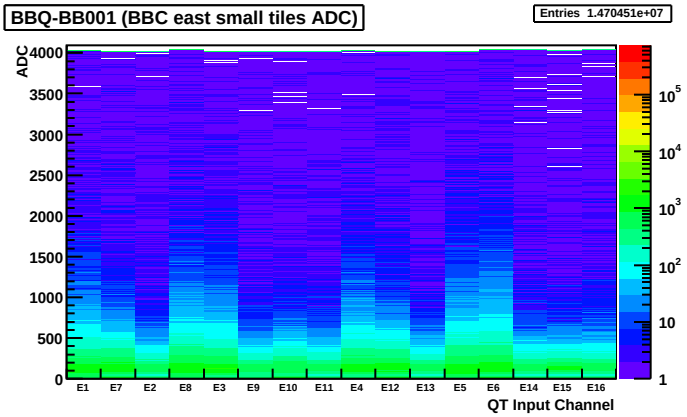

MIX-TF005
Entries 3.859934e+07
TOF MULT
TOF tray

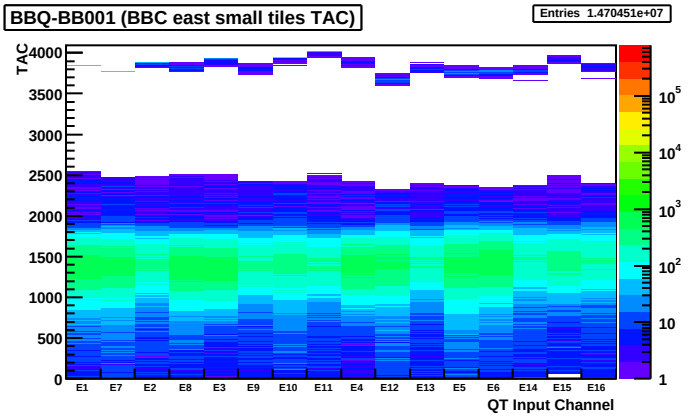

MIX-TF006
Entries 3.859934e+07
TOF MULT
TOF tray

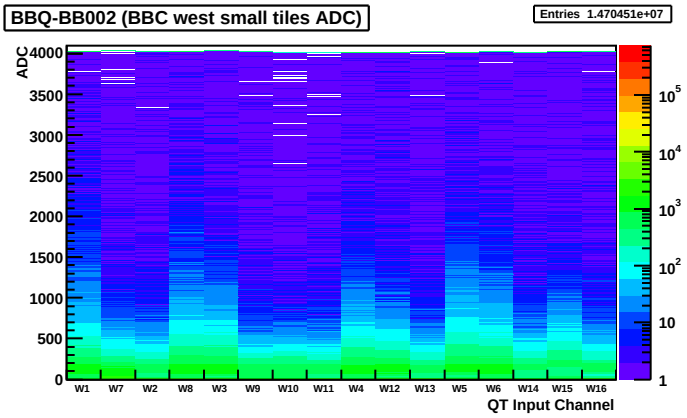

MIX-TF101
Entries 5514192
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

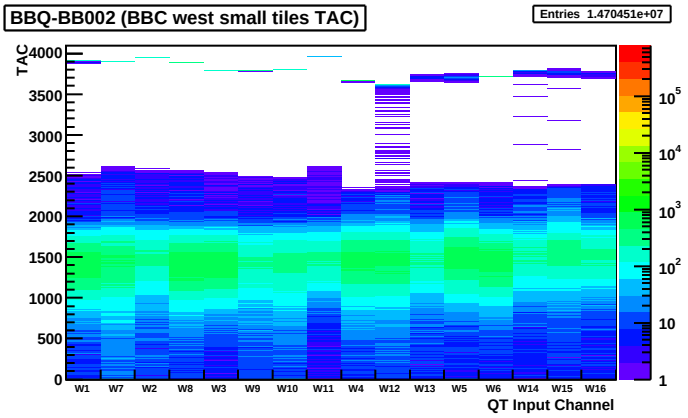

L1-TF201
Entries 919032
TOF total mult

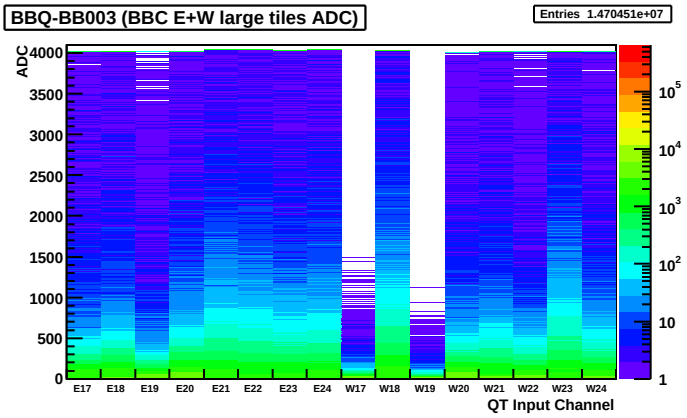

L1-TF201
Entries 5514192
Threshold bits
591500
586807
590955
584959
581293
559260
327532
332225
328077
334073
337739
359772
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

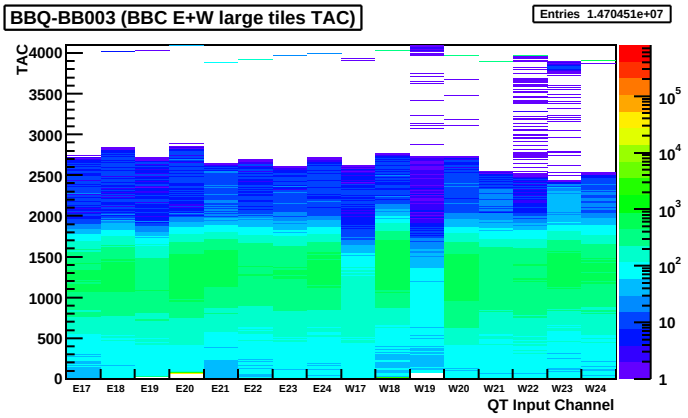

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.470451e+07
ADC
QT Input Channel

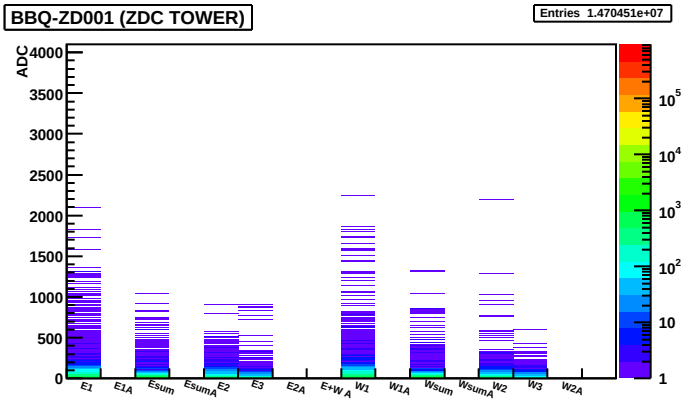

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.470451e+07
TAC
QT Input Channel

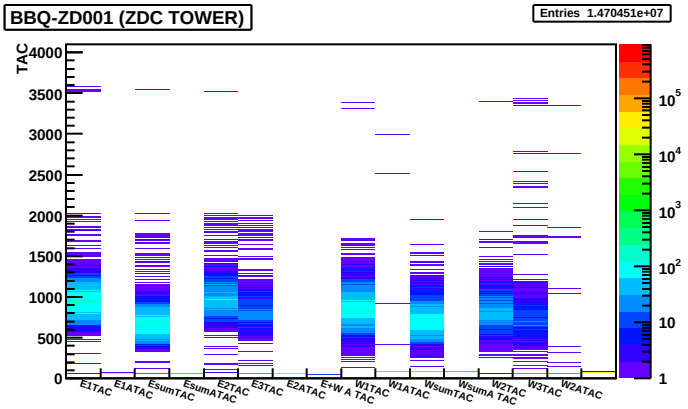

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.470451e+07
ADC
QT Input Channel

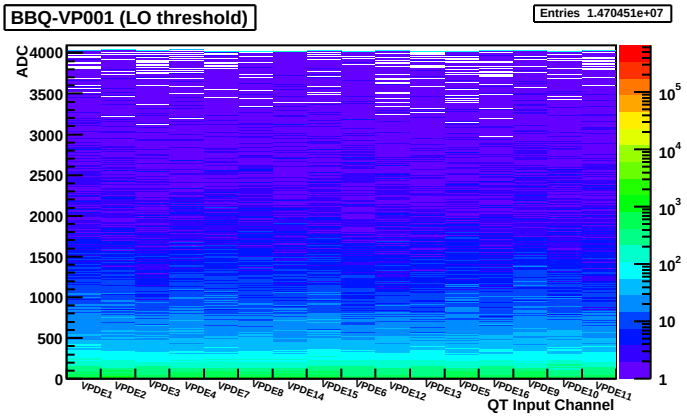

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.470451e+07
TAC
QT Input Channel

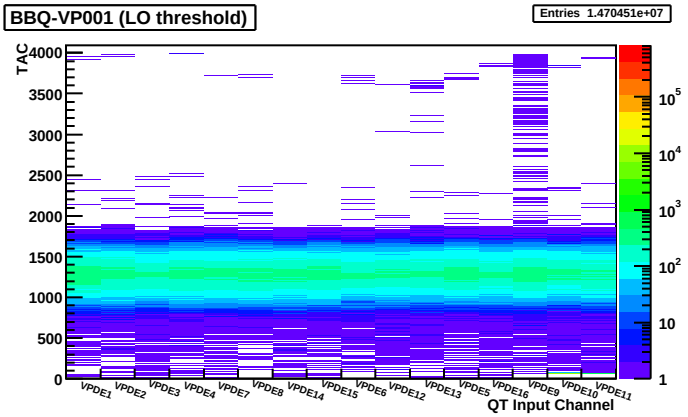

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.470451e+07
ADC
QT Input Channel

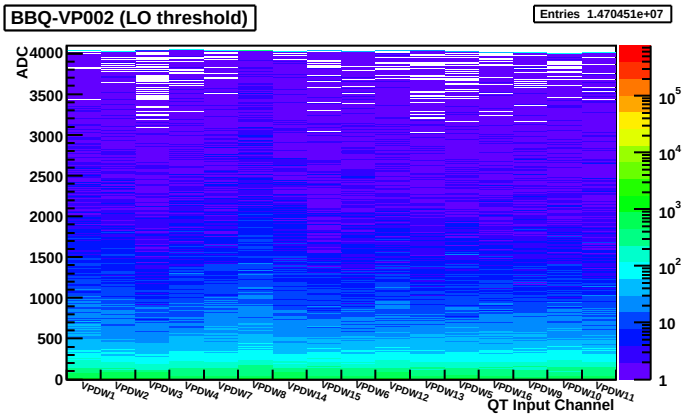

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.470451e+07
TAC
QT Input Channel

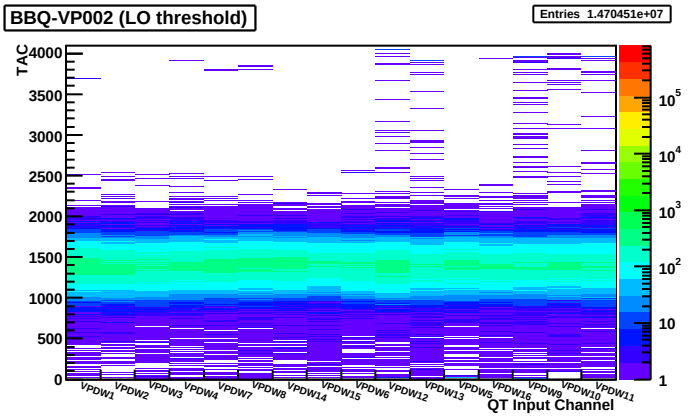

BBQ-ZD001 (ZDC TOWER)
Entries 1.470451e+07
ADC

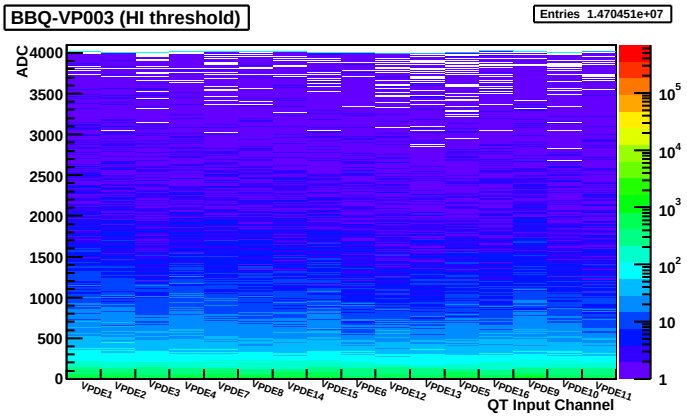

BBQ-ZD001 (ZDC TOWER)
Entries 1.470451e+07
TAC

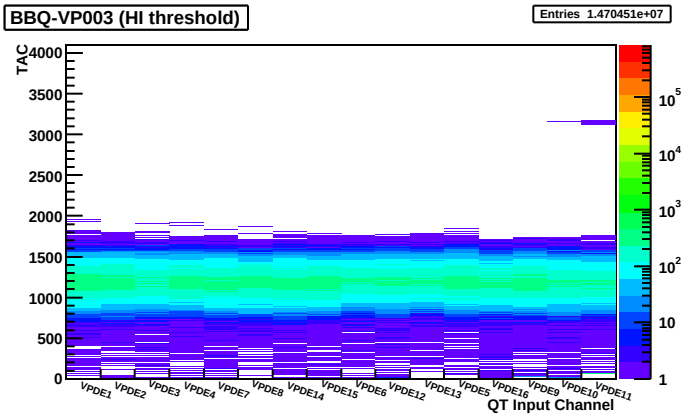

BBQ-VP001 (LO threshold)
Entries 1.470451e+07
ADC
QT Input Channel

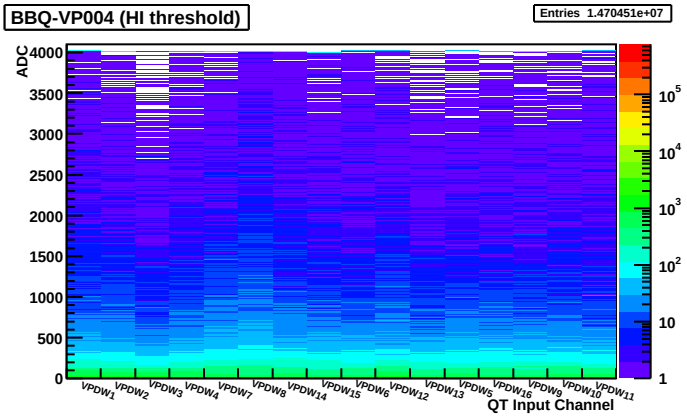

BBQ-VP001 (LO threshold)
Entries 1.470451e+07
TAC
QT Input Channel

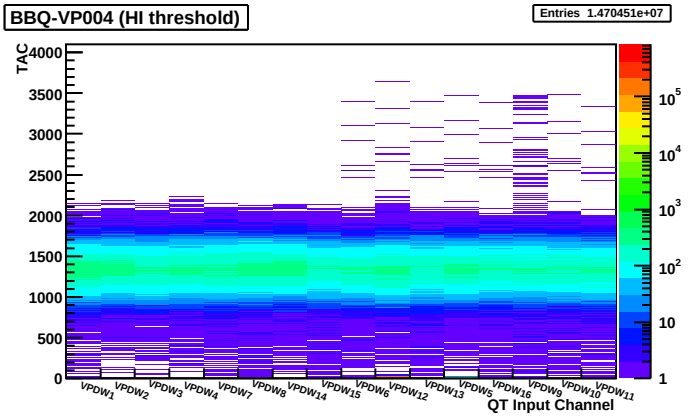

BBQ-VP002 (LO threshold)
Entries 1.470451e+07
ADC
QT Input Channel

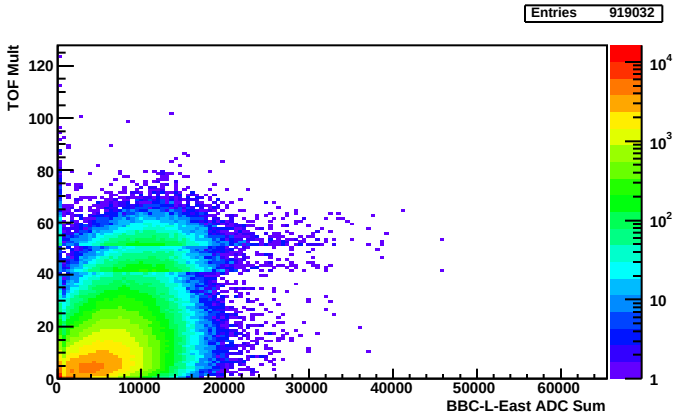

BBQ-VP002 (LO threshold)
Entries 1.470451e+07
TAC
QT Input Channel

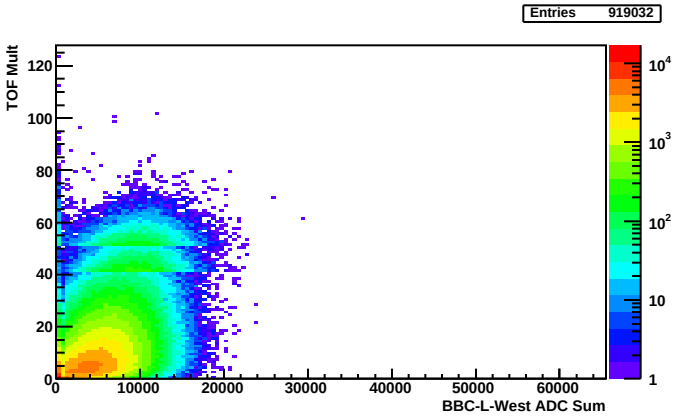

BBQ-VP003 (HI threshold)
Entries 1.470451e+07
ADC
QT Input Channel

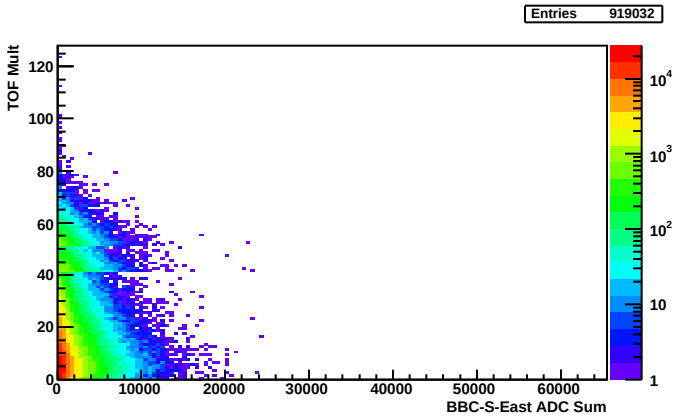

BBQ-VP003 (HI threshold)
Entries 1.470451e+07
TAC
QT Input Channel

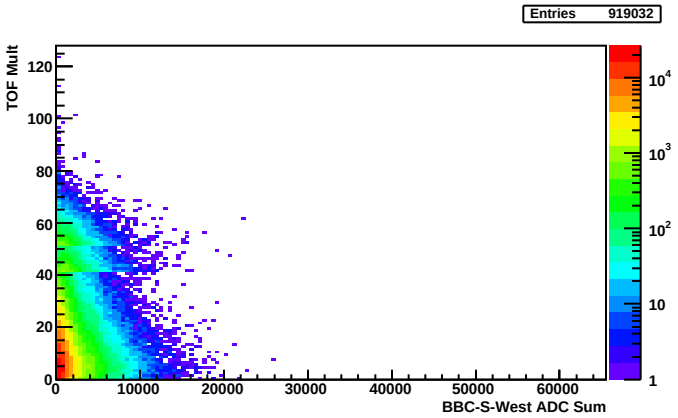

BBQ-VP004 (HI threshold)
Entries 1.470451e+07
ADC
QT Input Channel

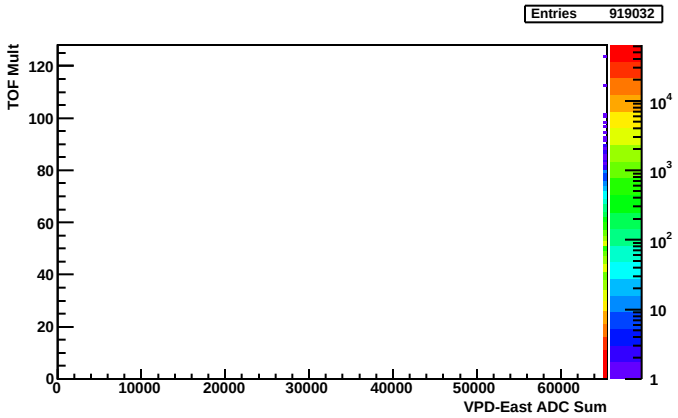

BBQ-VP004 (HI threshold)
Entries 1.470451e+07
TAC
QT Input Channel

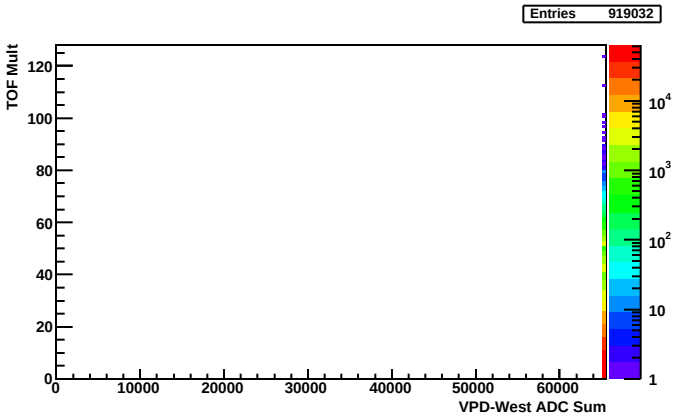

Entries 919032
TOF Mult
BBC-L-East ADC Sum

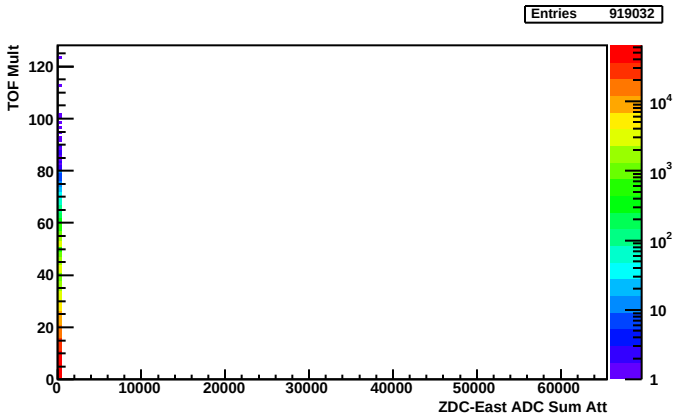

Entries 919032
TOF Mult
BBC-L-West ADC Sum

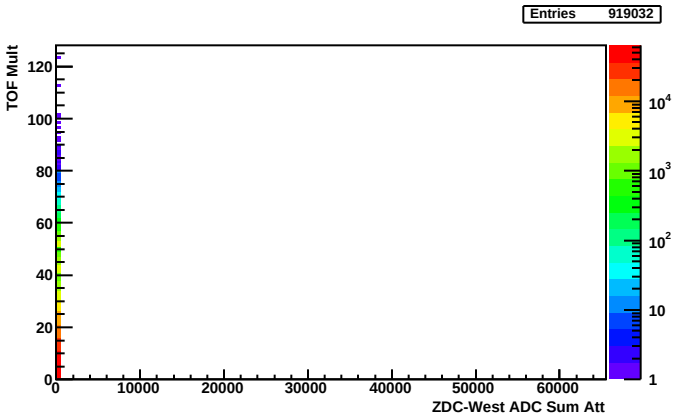

Entries 919032
TOF Mult
BBC-S-East ADC Sum

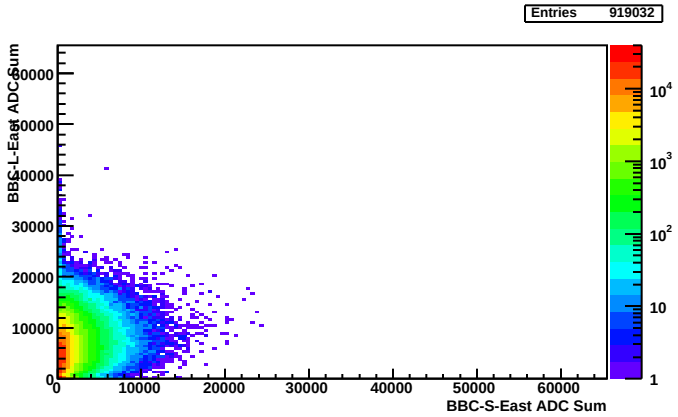

Entries 919032
TOF Mult
BBC-S-West ADC Sum

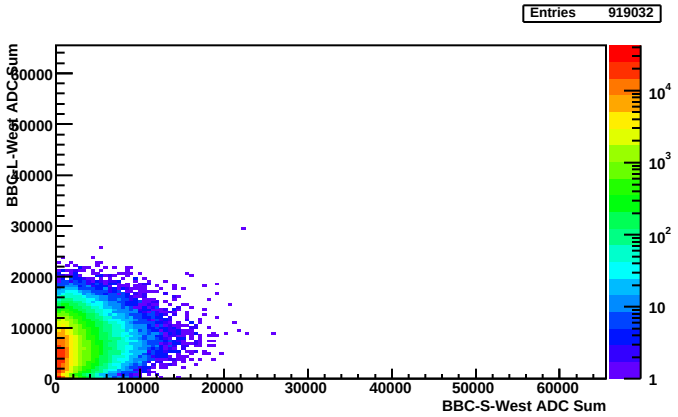

Entries 919032
TOF Mult
VPD-East ADC Sum

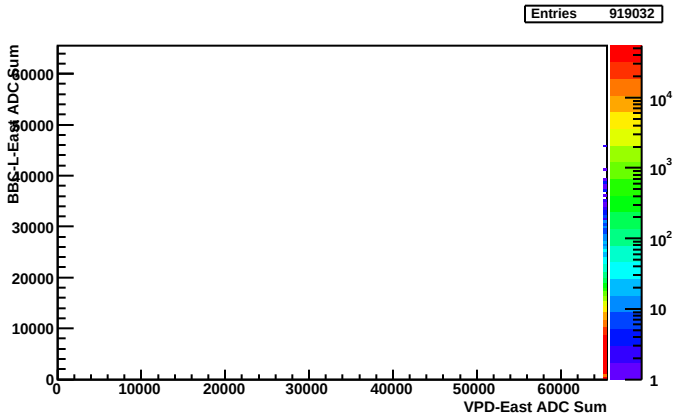

Entries 919032
TOF Mult
VPD-West ADC Sum

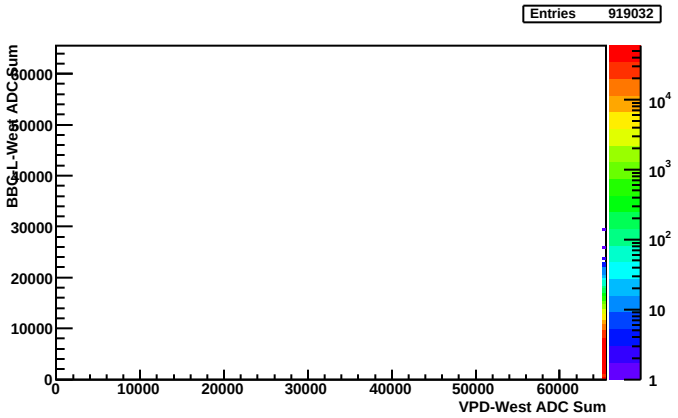

Entries 919032
TOF Mult
ZDC-East ADC Sum Att

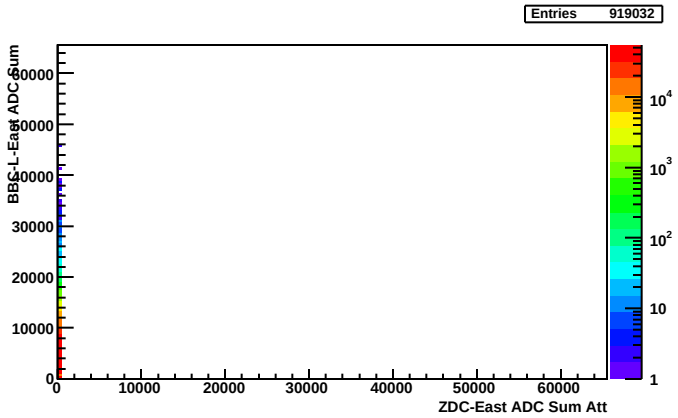

Entries 919032
TOF Mult
ZDC-West ADC Sum Att

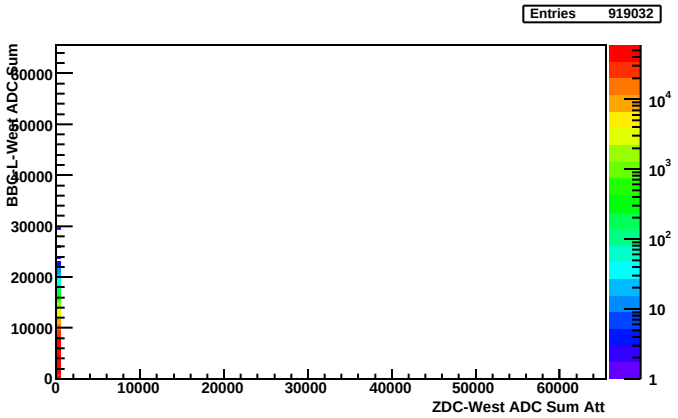

Entries 919032
BBC-L-East ADC Sum
BBC-S-East ADC Sum

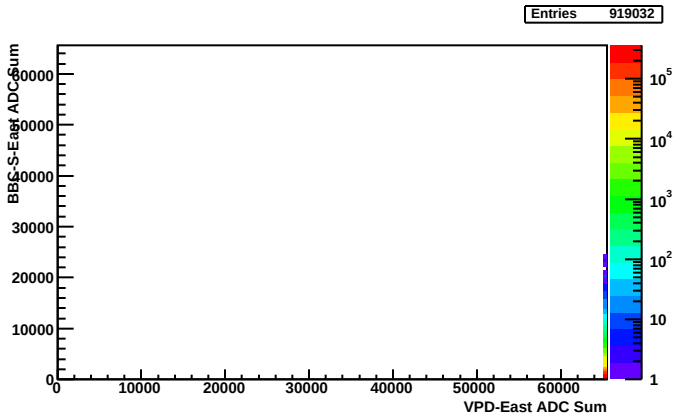

Entries 919032
BBC-L-West ADC Sum
BBC-S-West ADC Sum

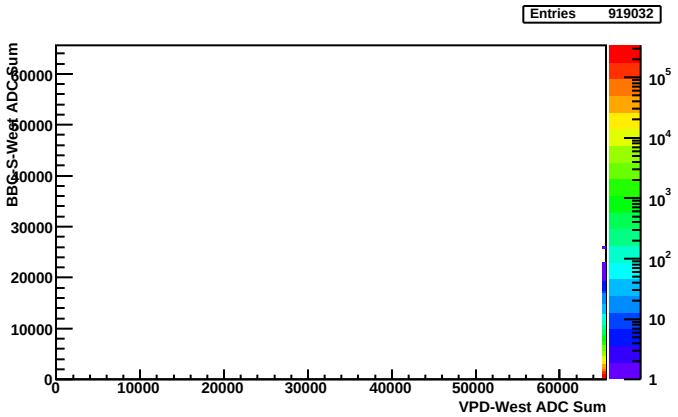

Entries 919032
BBC-L-East ADC Sum
VPD-East ADC Sum

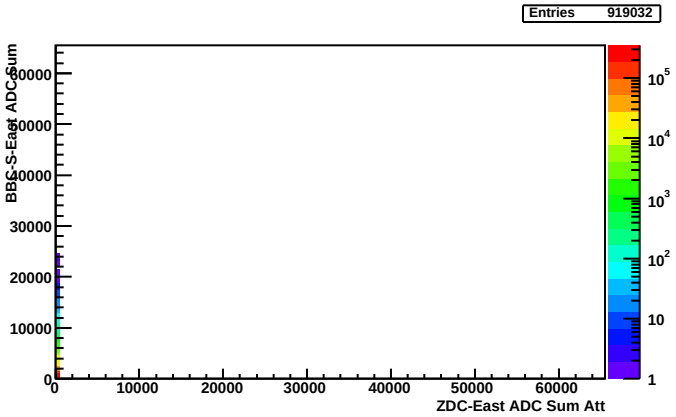

Entries 919032
BBC-L-West ADC Sum
VPD-West ADC Sum

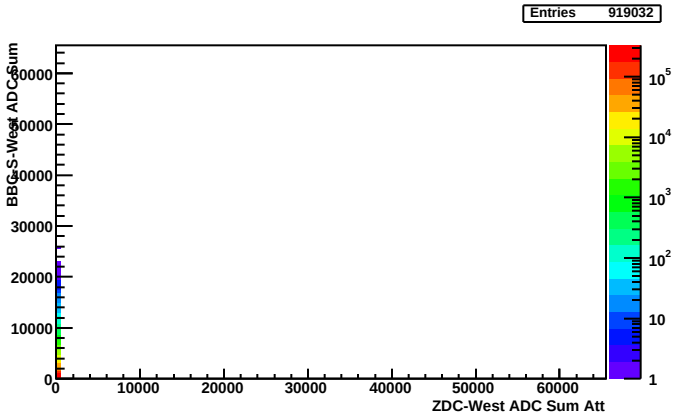

Entries 919032
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

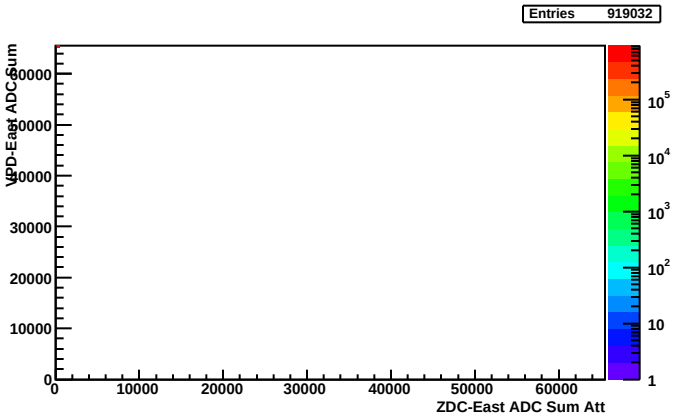

Entries 919032
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

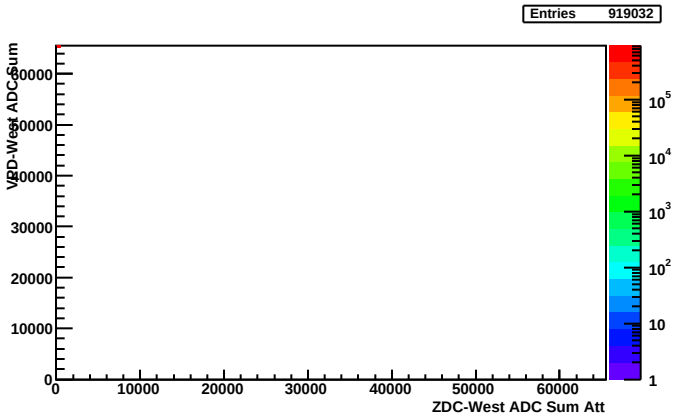

Entries 919032
BBC-S-East ADC Sum
VPD-East ADC Sum

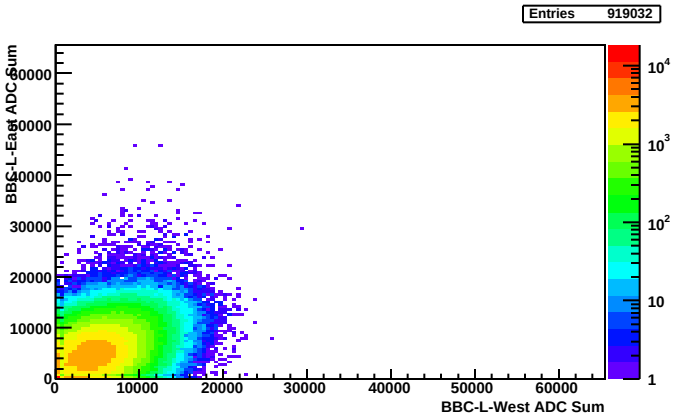

Entries 919032
BBC-S-West ADC Sum
VPD-West ADC Sum

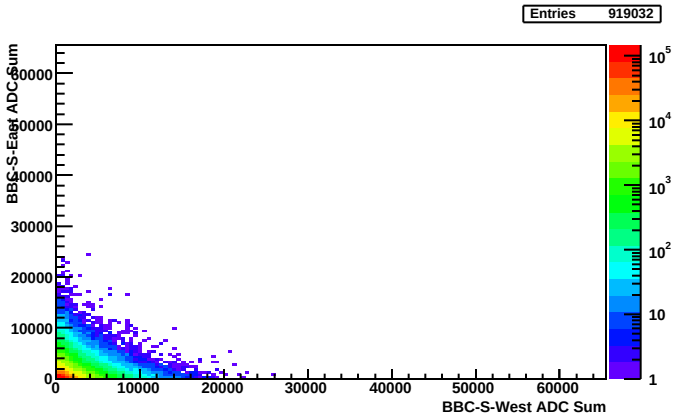

Entries 919032
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

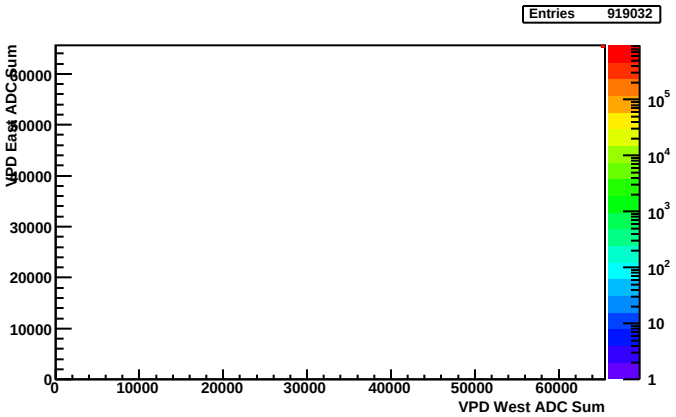

Entries 919032
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

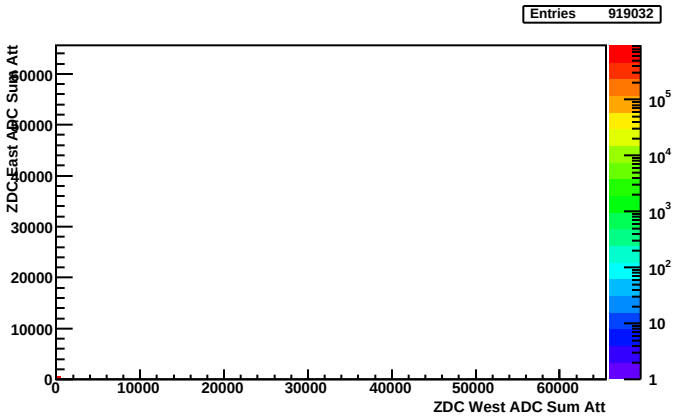

Entries 919032
VPD-East ADC Sum
ZDC-East ADC Sum Att

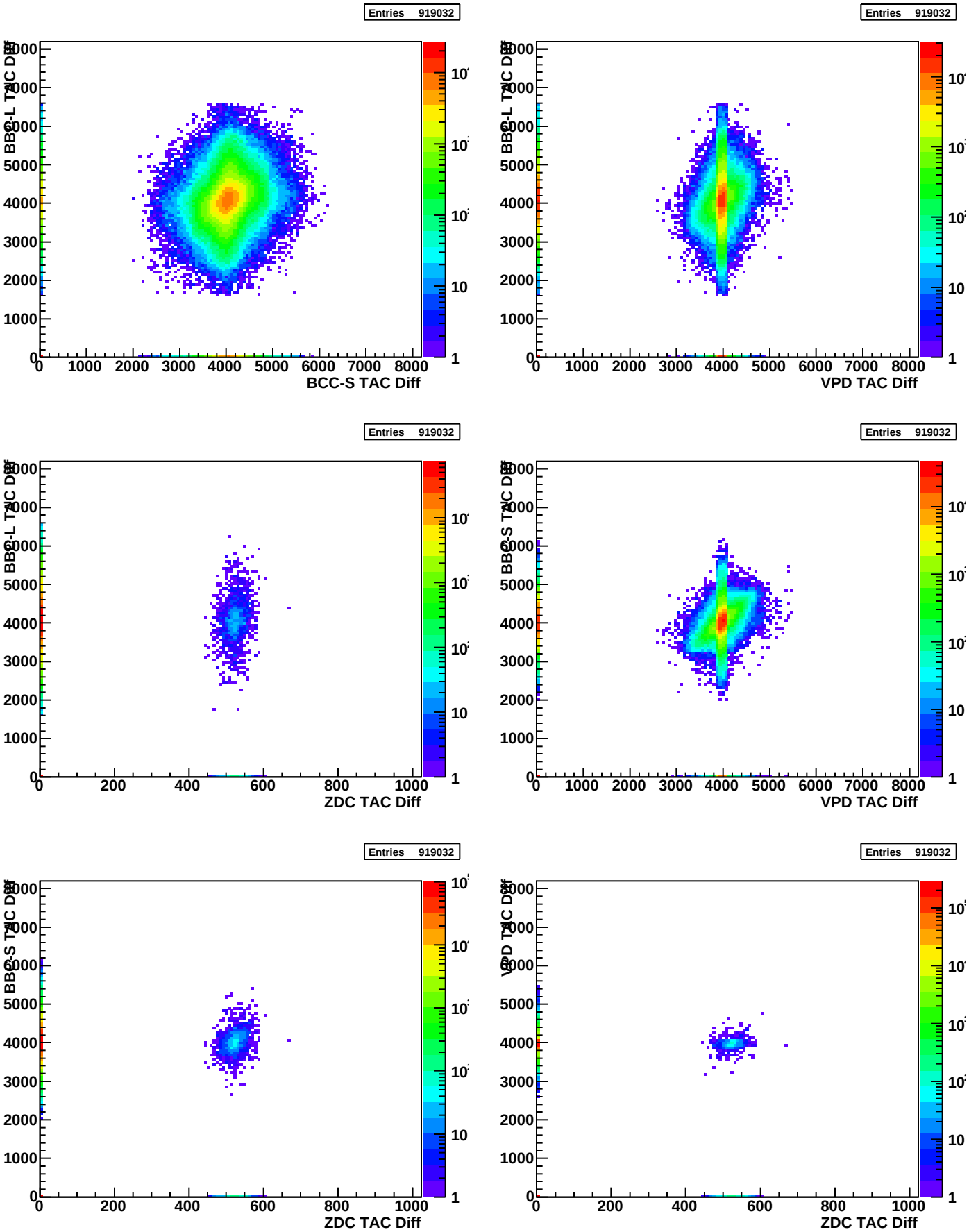

Entries 919032
VPD-West ADC Sum
ZDC-West ADC Sum Att

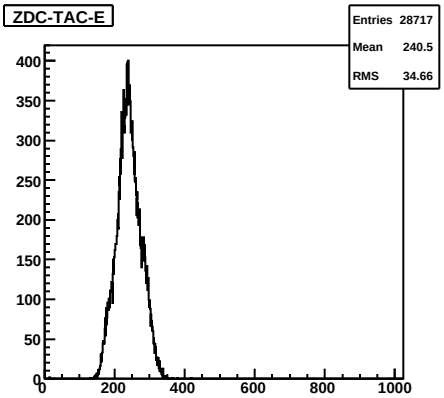

Entries 919032
BBC-L-East ADC Sum
BBC-L-West ADC Sum

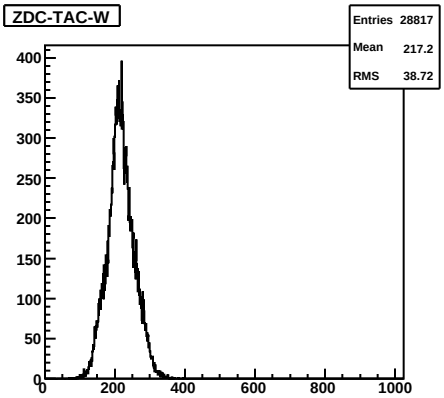

Entries 919032
BBC-S-East ADC Sum
BBC-S-West ADC Sum

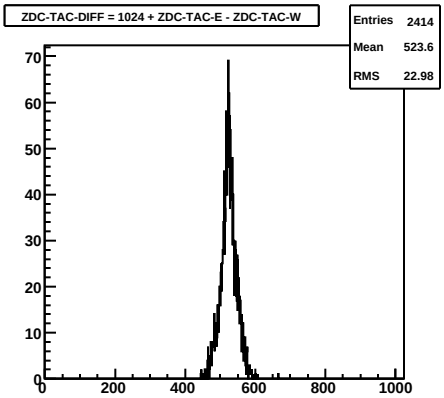

Entries 919032
VPD East ADC Sum
VPD West ADC Sum

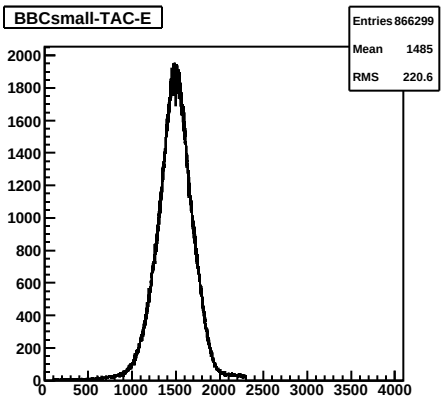

Entries 919032
ZDC East ADC Sum Att
ZDC West ADC Sum Att

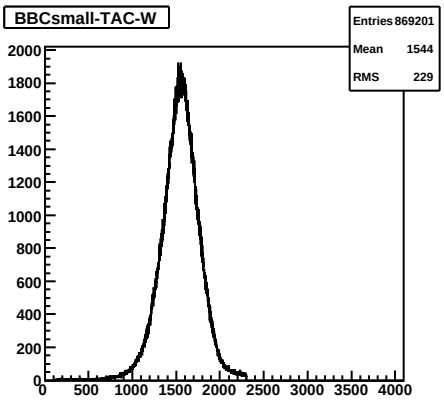

Entries 919032
BBC-L TAC Diff
BCC-S TAC Diff
Entries 919032
BBC-L TAC Diff
VPD TAC Diff
Entries 919032
BBC-L TAC Diff
ZDC TAC Diff
Entries 919032
BBC-S TAC Diff
VPD TAC Diff
Entries 919032
BBC-S TAC Diff
ZDC TAC Diff
Entries 919032
VPD TAC Diff
ZDC TAC Diff

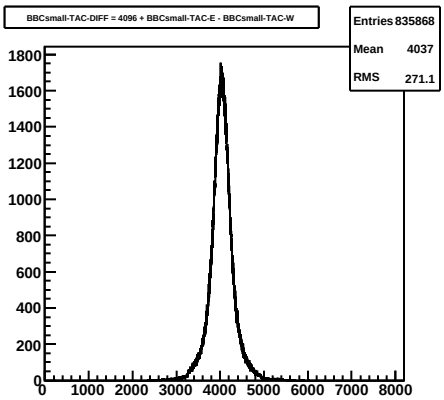

ZDC-TAC-E
Entries 28717
Mean 240.5
RMS 34.66

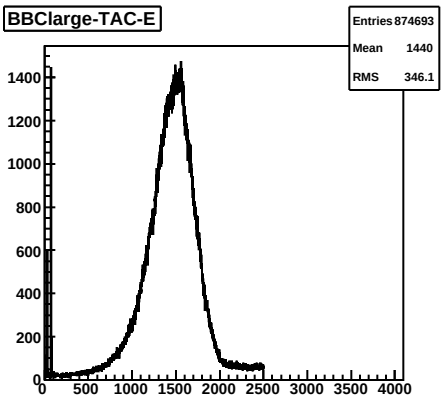

ZDC-TAC-W
Entries 28817
Mean 217.2
RMS 38.72

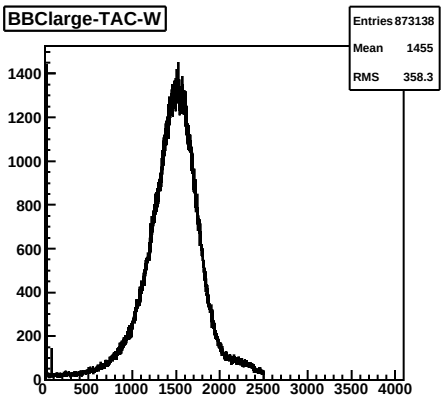

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 2414
Mean 523.6
RMS 22.98

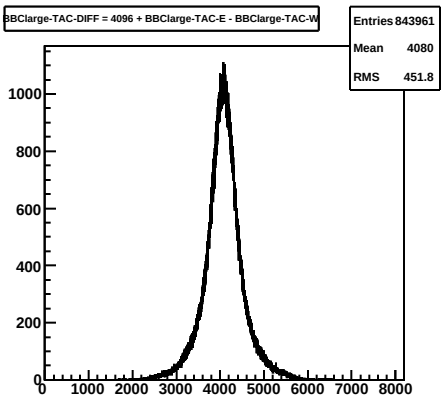

BBCsmall-TAC-E
Entries 866299
Mean 1485
RMS 220.6

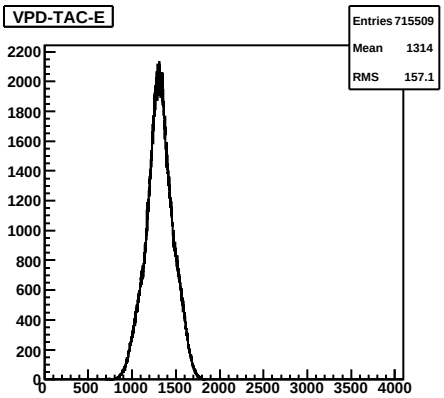

BBCsmall-TAC-W
Entries 869201
Mean 1544
RMS 229

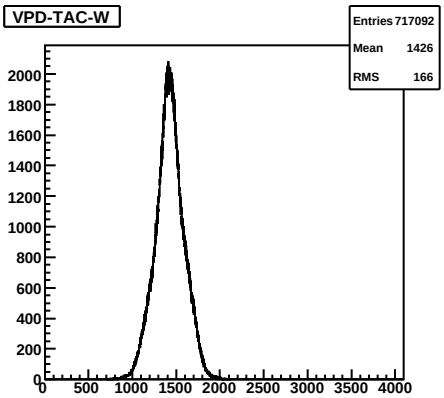

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 835868
Mean 4037
RMS 271.1

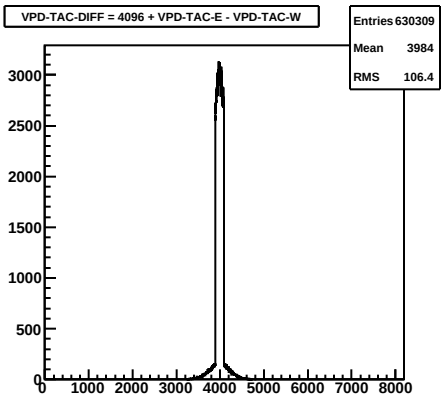

BBClarge-TAC-E
Entries 874693
Mean 1440
RMS 346.1

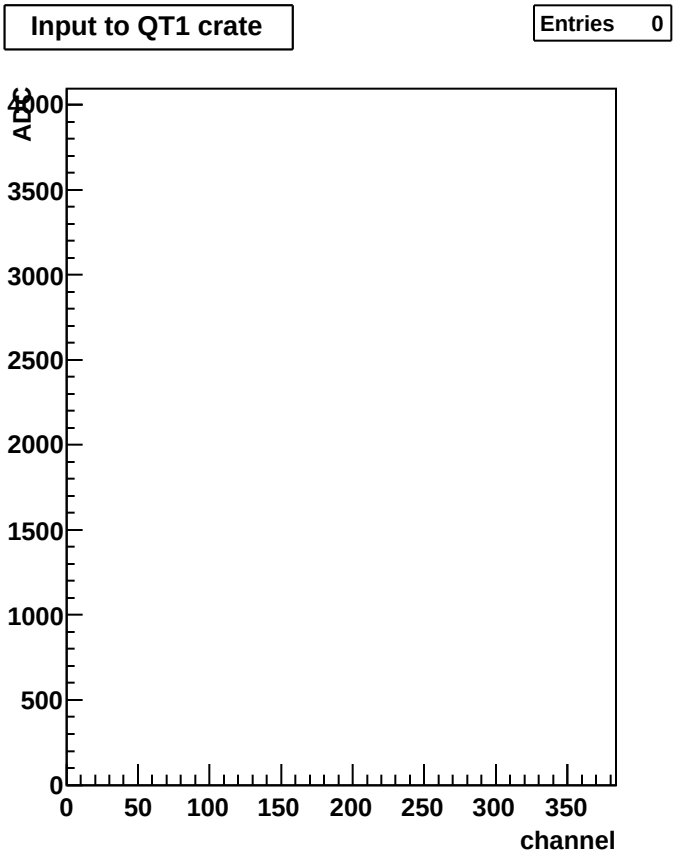

BBClarge-TAC-W
Entries 873138
Mean 1455
RMS 358.3

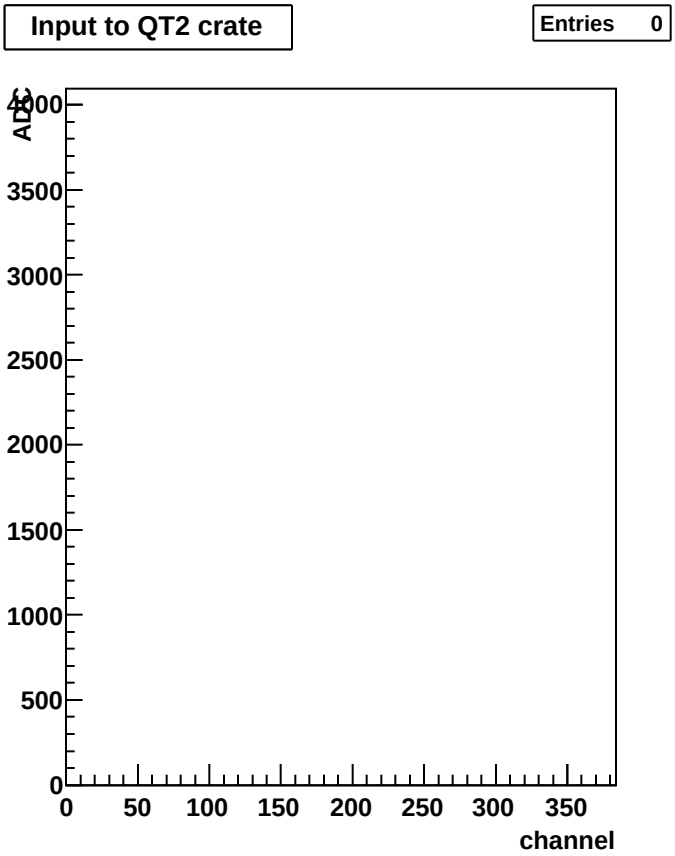

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 843961
Mean 4080
RMS 451.8

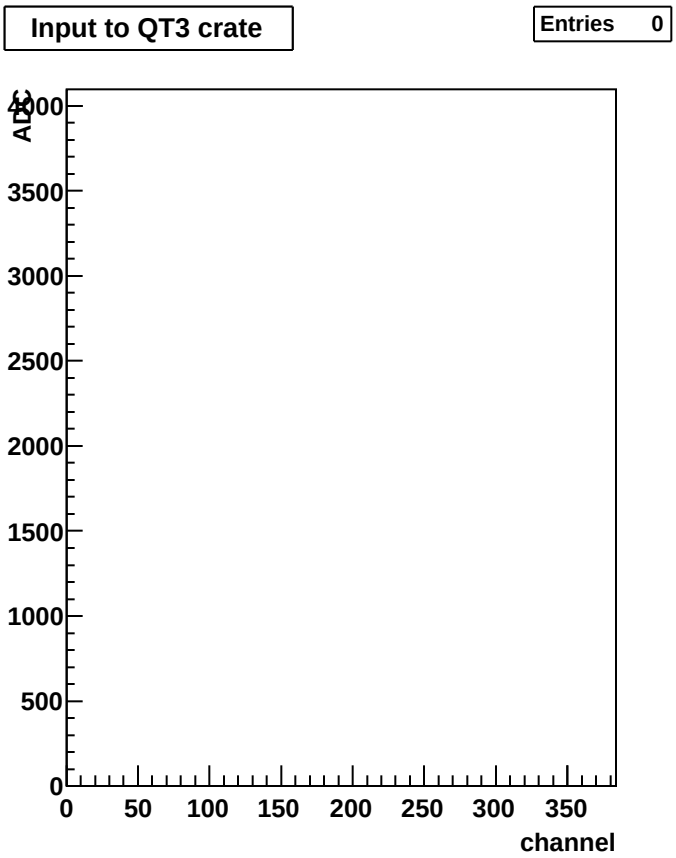

VPD-TAC-E
Entries 715509
Mean 1314
RMS 157.1

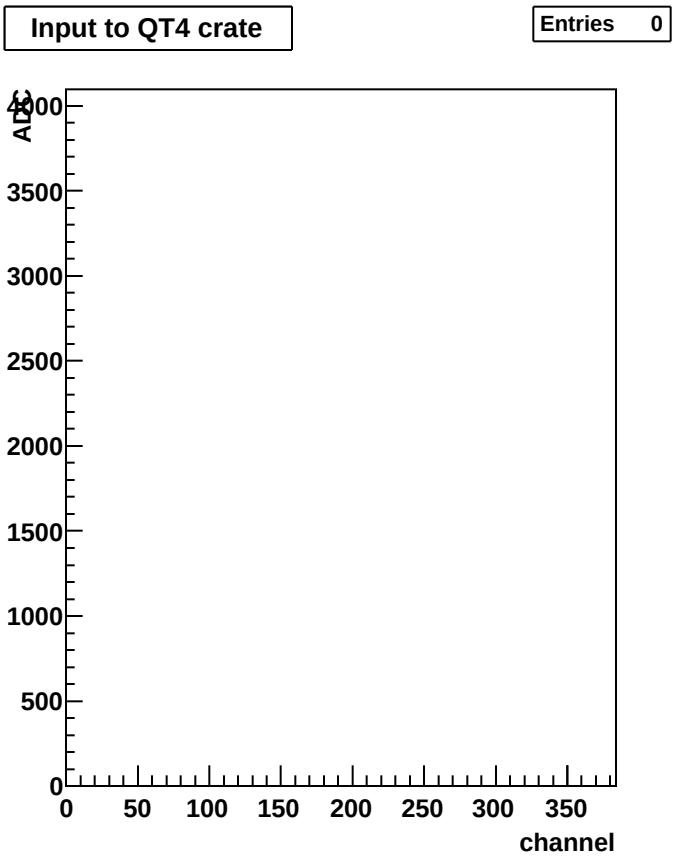

VPD-TAC-W
Entries 717092
Mean 1426
RMS 166

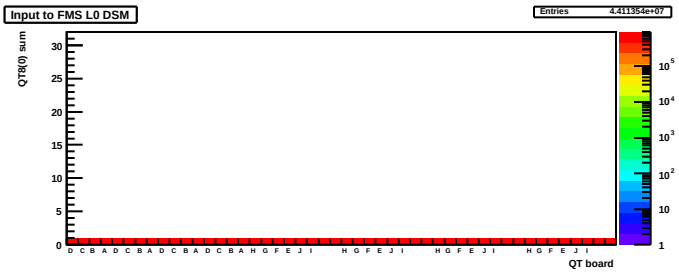

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 630309
Mean 3984
RMS 106.4

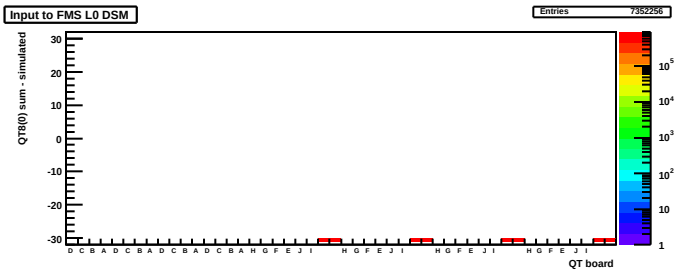

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

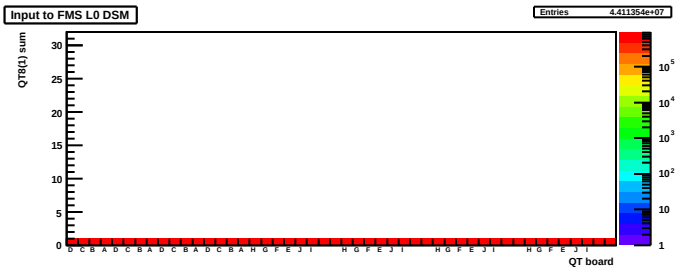

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

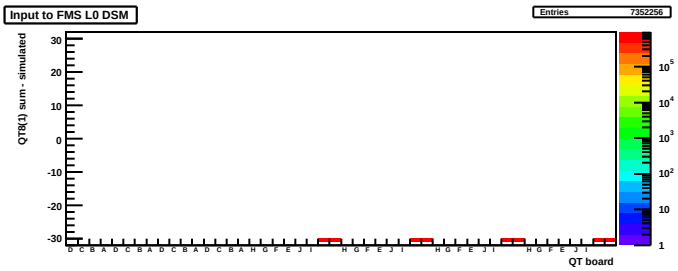

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

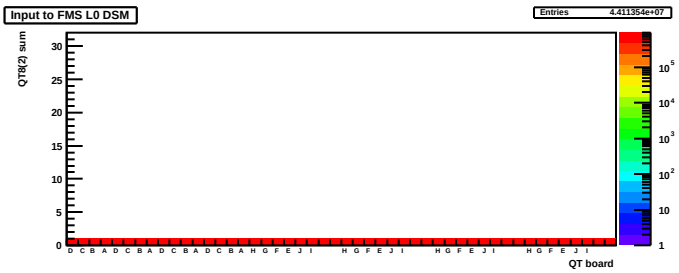

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

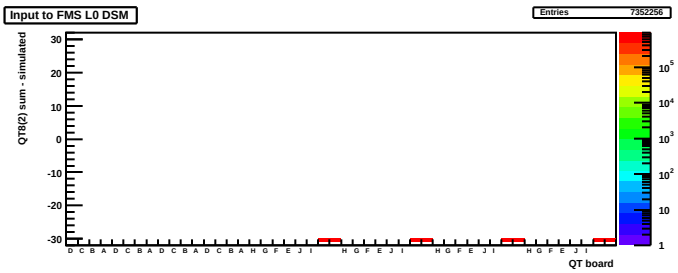

Input to FMS L0 DSM
Entries 4.411354e+07
QT8(0) sum
QT board

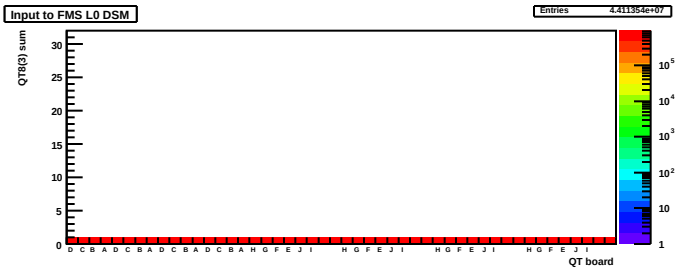

Input to FMS L0 DSM
Entries 7352256
QT8(0) sum - simulated
QT board

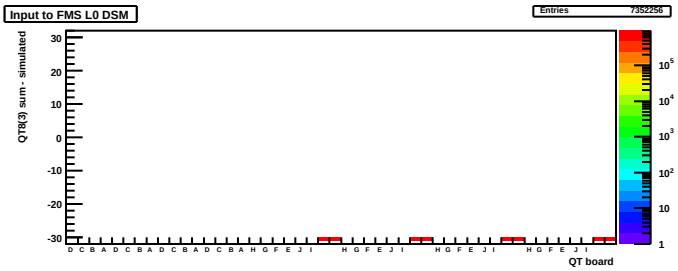

Input to FMS L0 DSM
Entries 4.411354e+07
QT8(1) sum
QT board

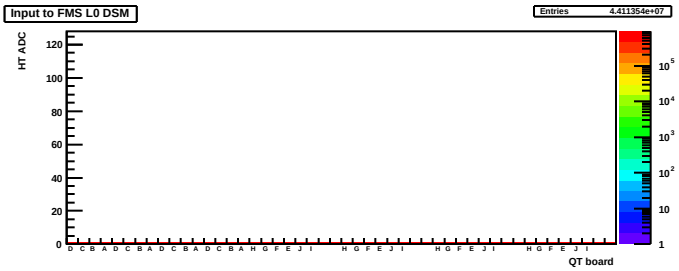

Input to FMS L0 DSM
Entries 7352256
QT8(1) sum - simulated
QT board

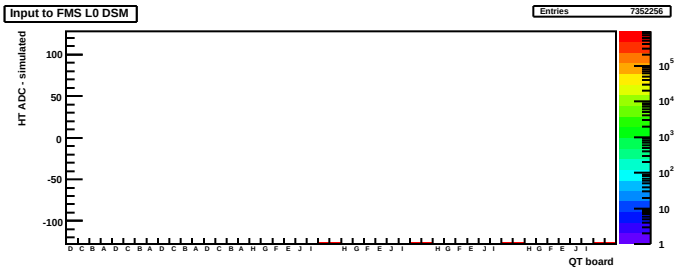

Input to FMS L0 DSM
Entries 4.411354e+07
QT8(2) sum
QT board

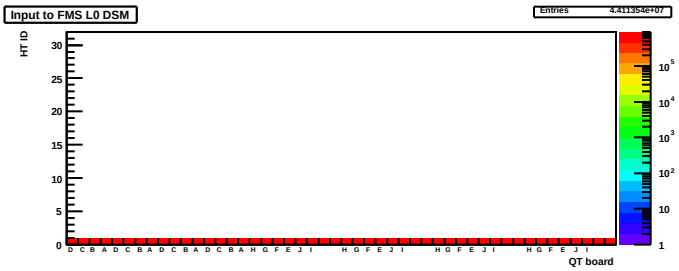

Input to FMS L0 DSM
Entries 7352256
QT8(2) sum - simulated
QT board

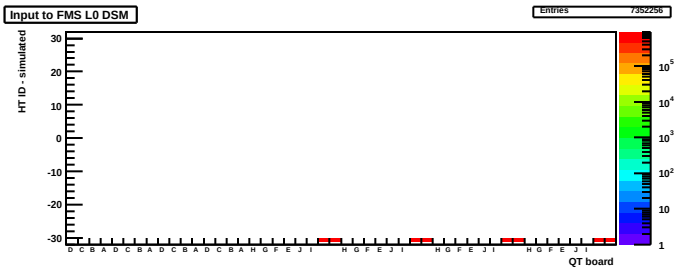

Input to FMS L0 DSM
Entries 4.411354e+07
QT8(3) sum
QT board

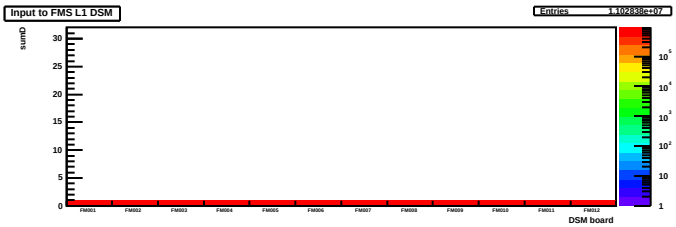

Input to FMS L0 DSM
Entries 7352256
QT8(3) sum - simulated
QT board

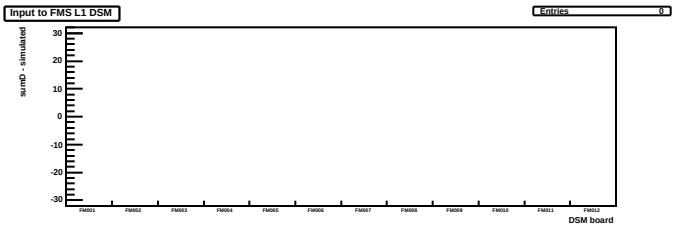

Input to FMS L0 DSM
Entries 4.411354e+07
HT ADC
QT board

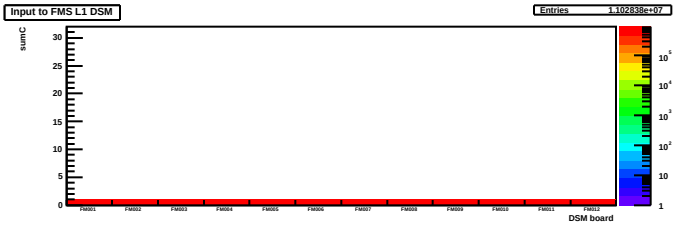

Input to FMS L0 DSM
Entries 7352256
HT ADC - simulated
QT board

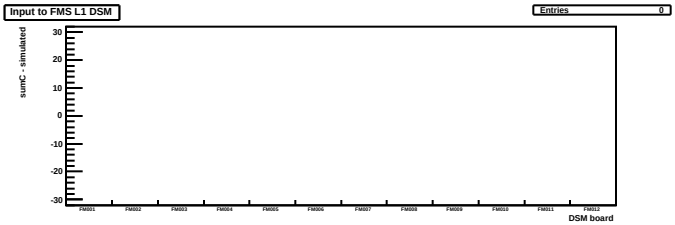

Input to FMS L0 DSM
Entries 4.411354e+07
HT ID
QT board

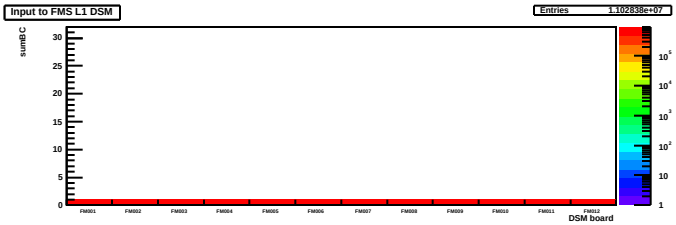

Input to FMS L0 DSM
Entries 7352256
HT ID - simulated
QT board

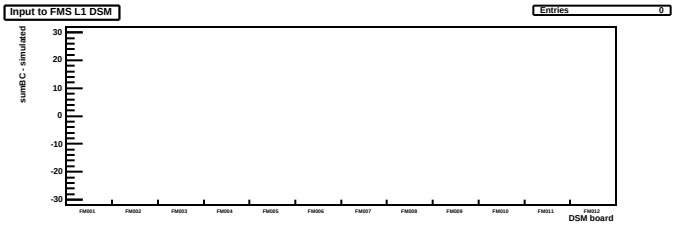

Input to FMS L1 DSM
Entries 1.102838e+07
sumD
DSM board

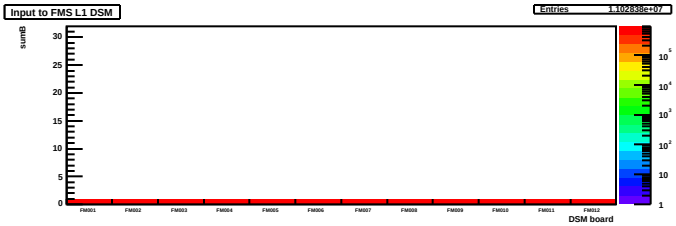

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

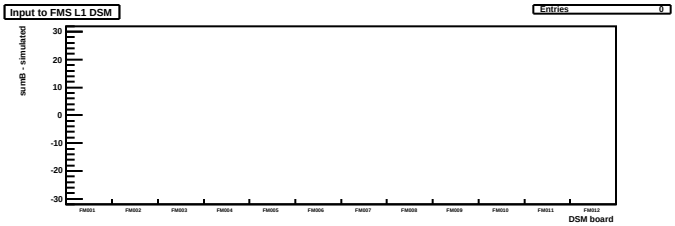

Input to FMS L1 DSM
Entries 1.102838e+07
sumC
DSM board

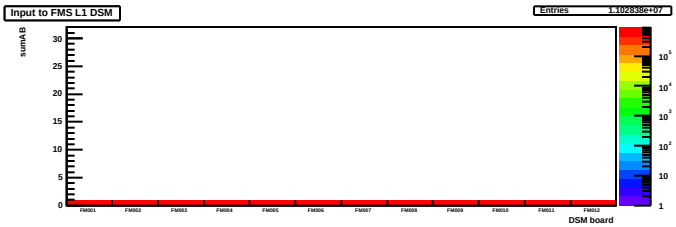

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

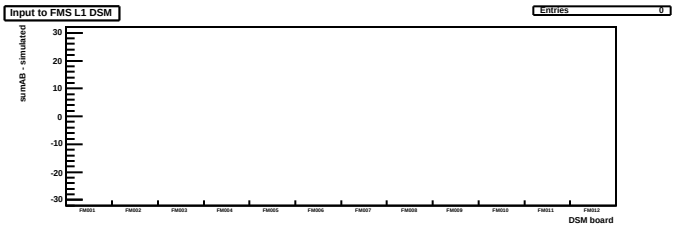

Input to FMS L1 DSM
Entries 1.102838e+07
sumBC
DSM board

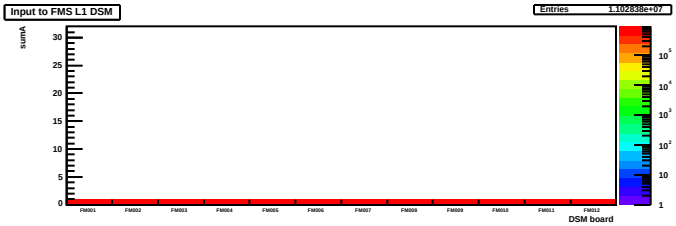

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

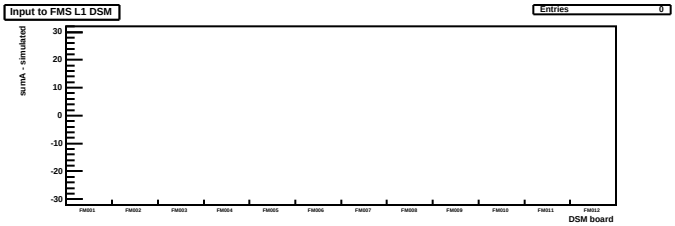

Input to FMS L1 DSM
Entries 1.102838e+07
sumB
DSM board

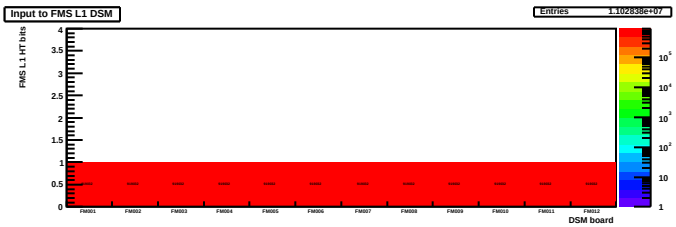

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

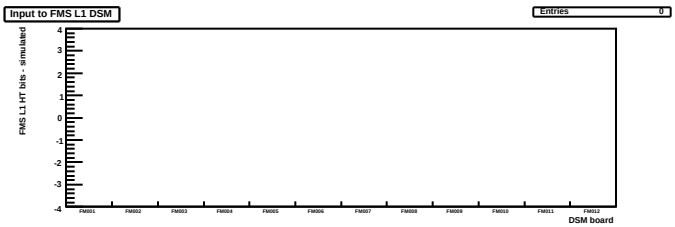

Input to FMS L1 DSM
Entries 1.102838e+07
sumAB
DSM board

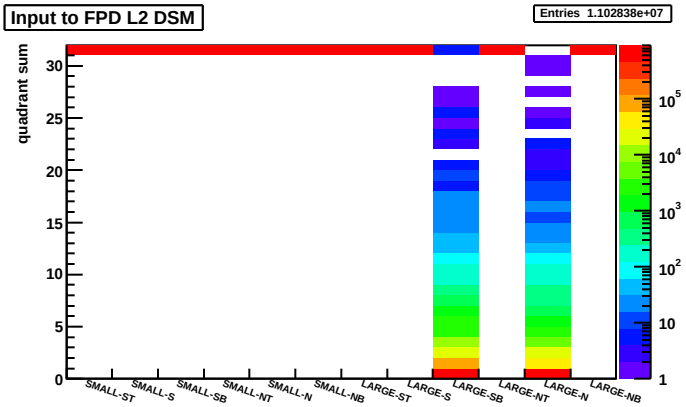

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

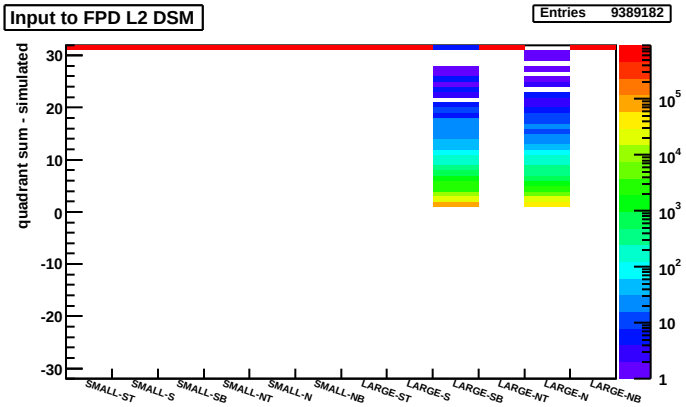

Input to FMS L1 DSM
Entries 1.102838e+07
sumA
DSM board

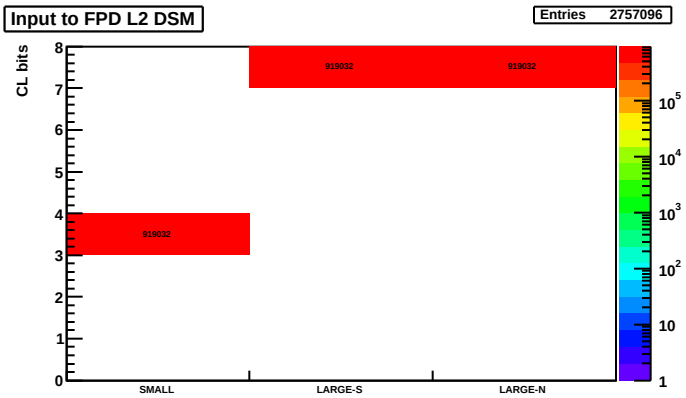

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

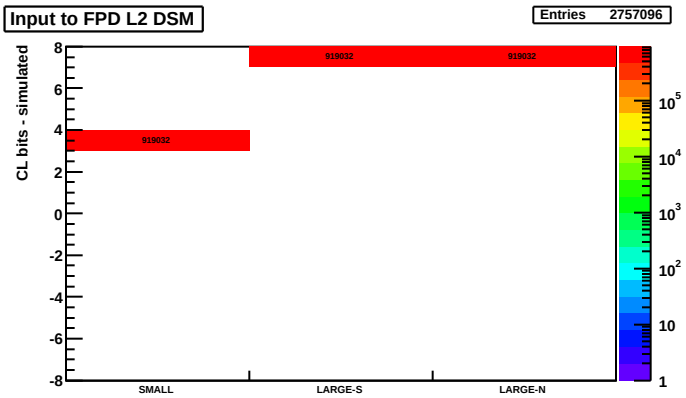

Input to FMS L1 DSM
Entries 1.102838e+07
FMS L1 HT bits
DSM board

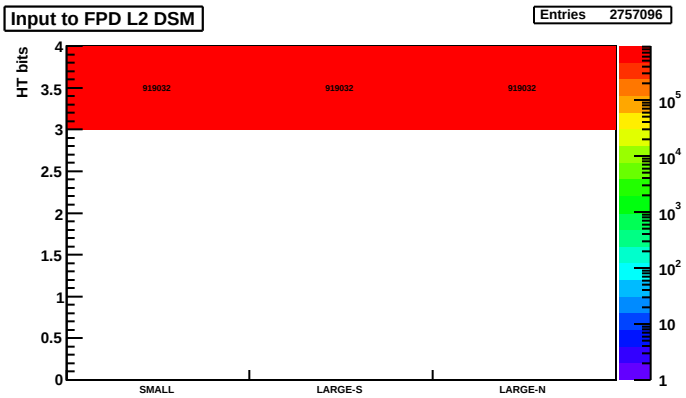

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

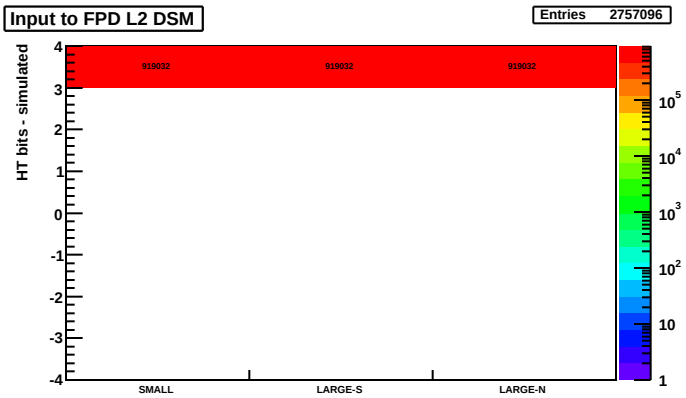

Input to FPD L2 DSM
Entries 1.102838e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

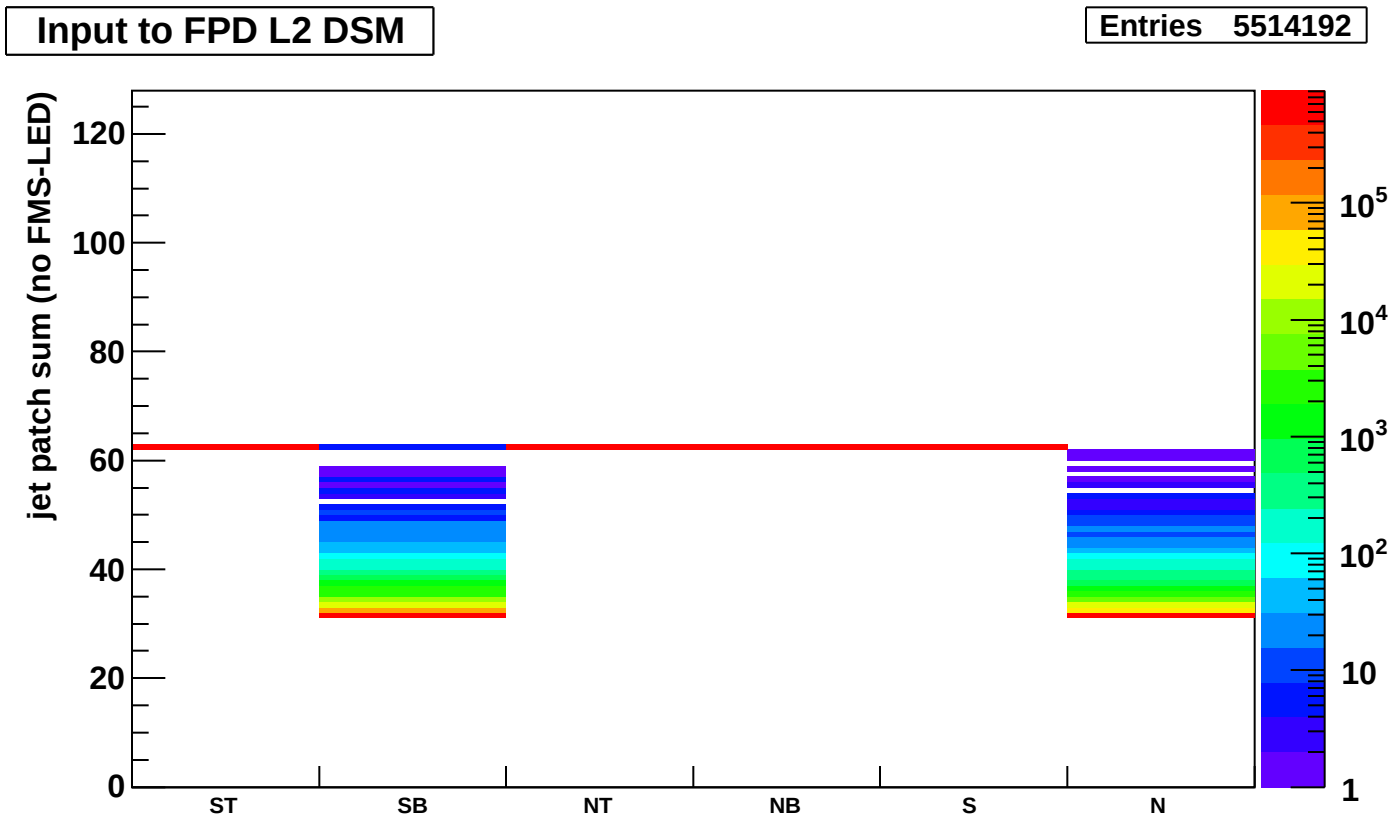

Input to FPD L2 DSM
Entries 9389182
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

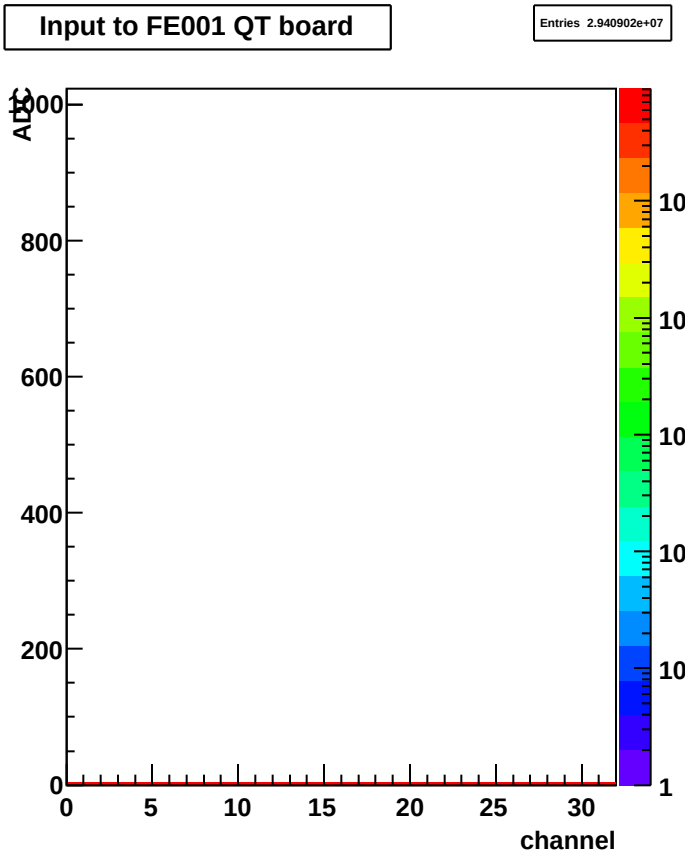

Input to FPD L2 DSM
Entries 2757096
CL bits
919032
919032
919032
SMALL
LARGE-S
LARGE-N

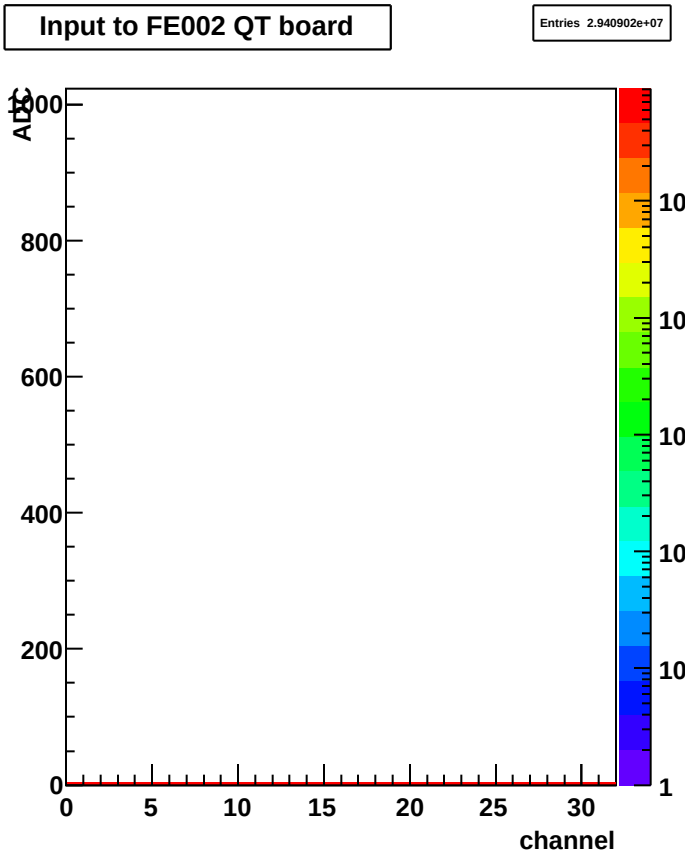

Input to FPD L2 DSM
Entries 2757096
CL bits - simulated
919032
919032
919032
SMALL
LARGE-S
LARGE-N

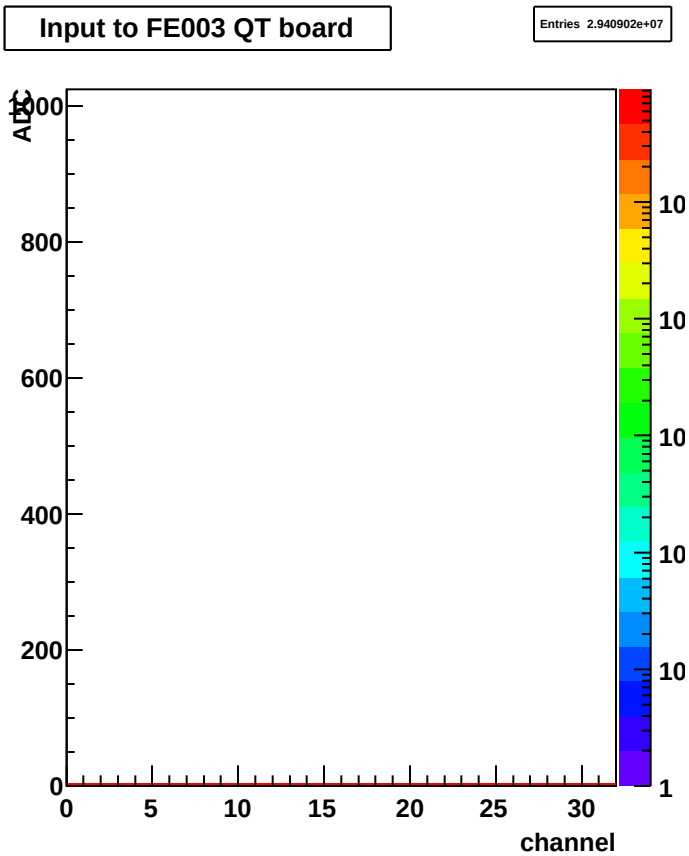

Input to FPD L2 DSM
Entries 2757096
HT bits
919032
919032
919032
SMALL
LARGE-S
LARGE-N

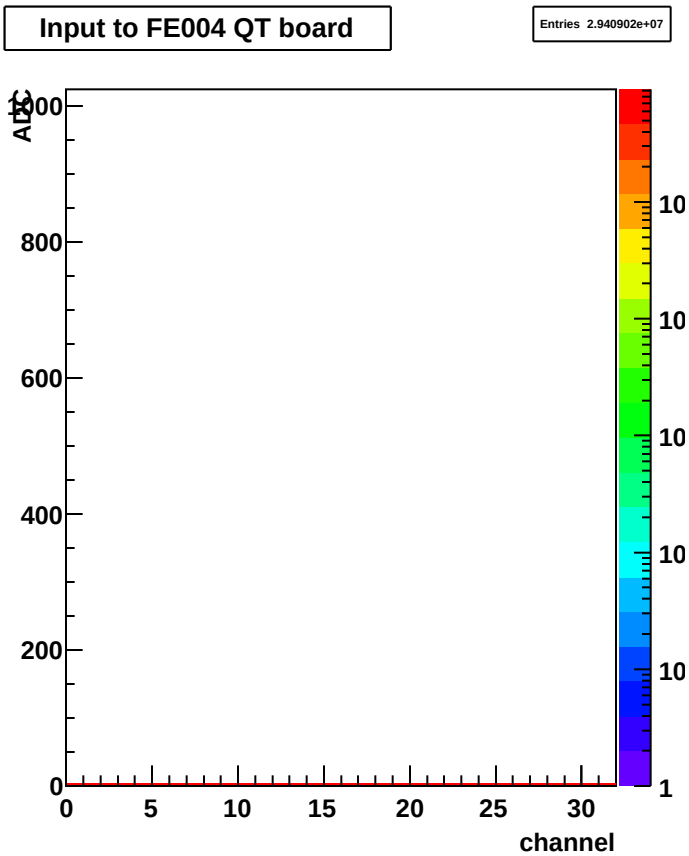

Input to FPD L2 DSM
Entries 2757096
HT bits - simulated
919032
919032
919032
SMALL
LARGE-S
LARGE-N

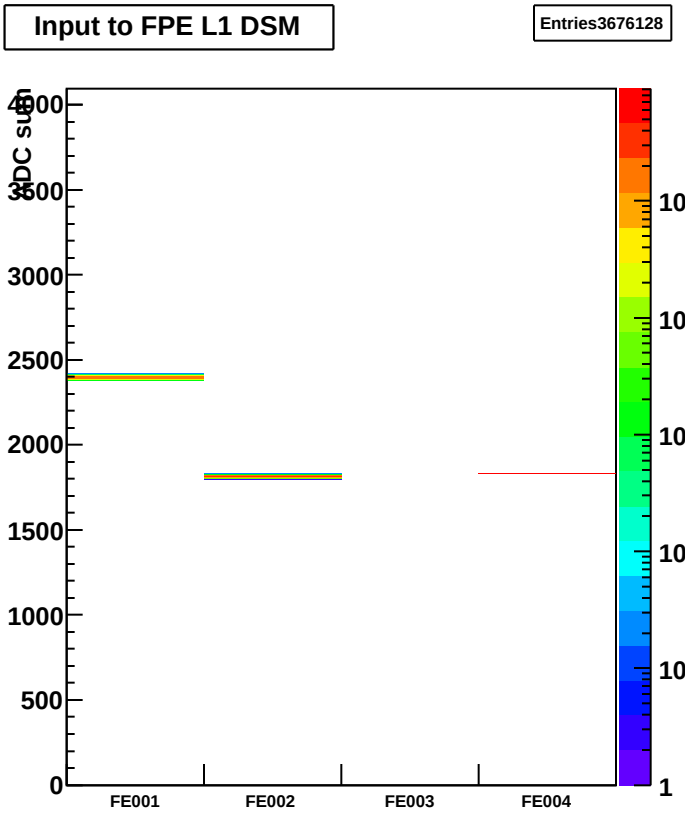

Input to FPD L2 DSM
Entries 5514192
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

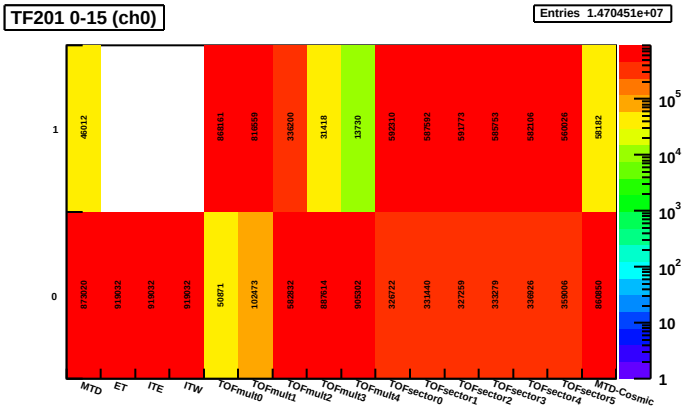

Input to FE001 QT board
Entries 2.940902e+07
ADC
channel

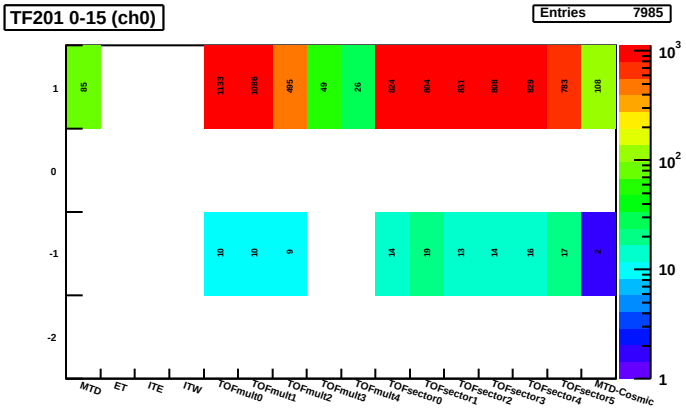

Input to FE002 QT board
Entries 2.940902e+07
ADC
channel

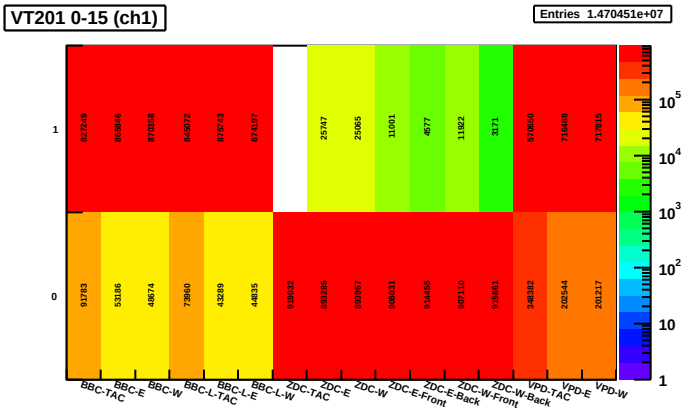

Input to FE003 QT board
Entries 2.940902e+07
ADC
channel

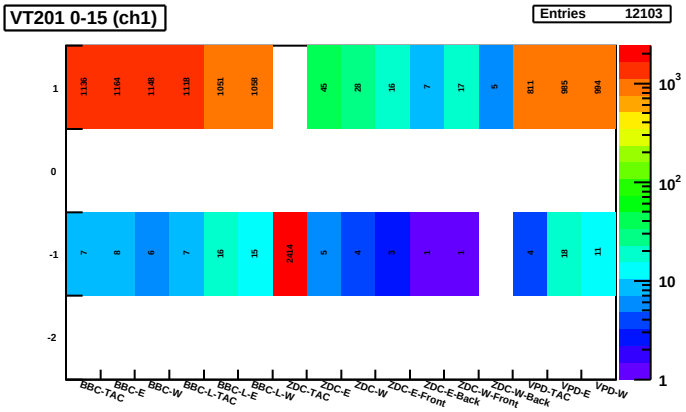

Input to FE004 QT board
Entries 2.940902e+07
ADC
channel


Input to FPE L1 DSM
Entries3676128
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 1.470451e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 7985
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1.470451e+07
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 12103
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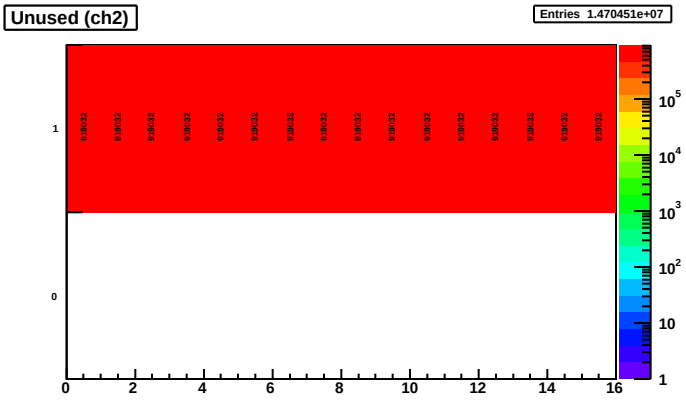
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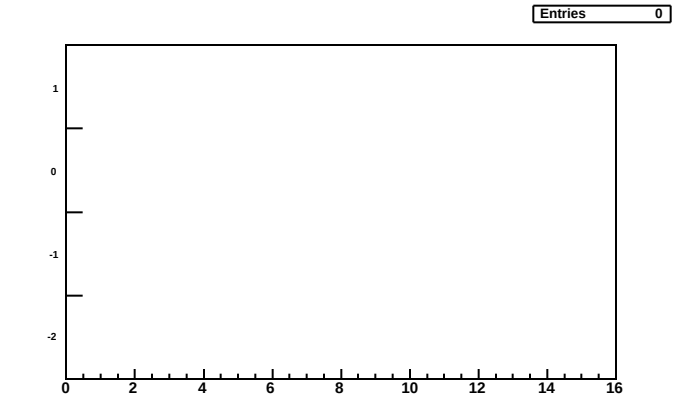
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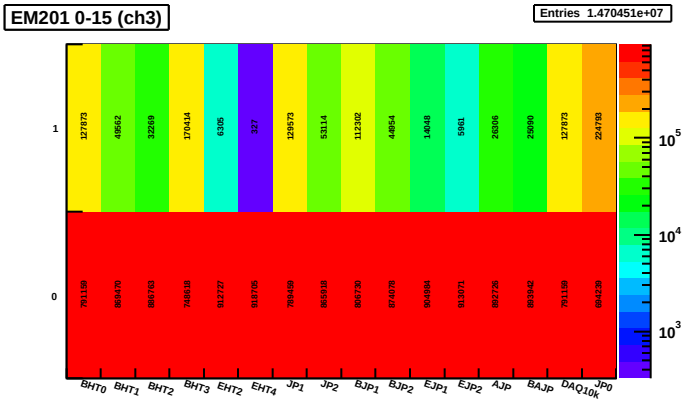
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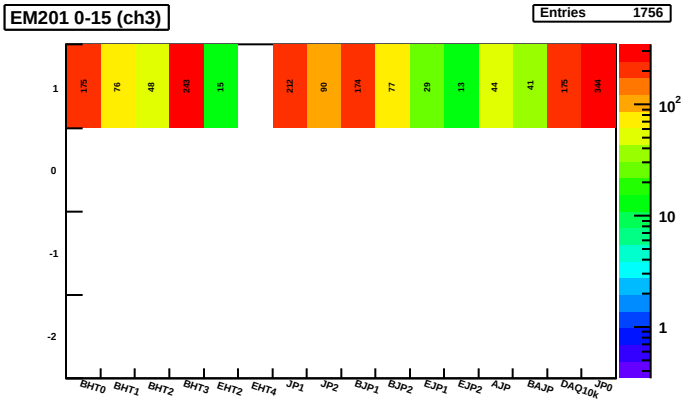
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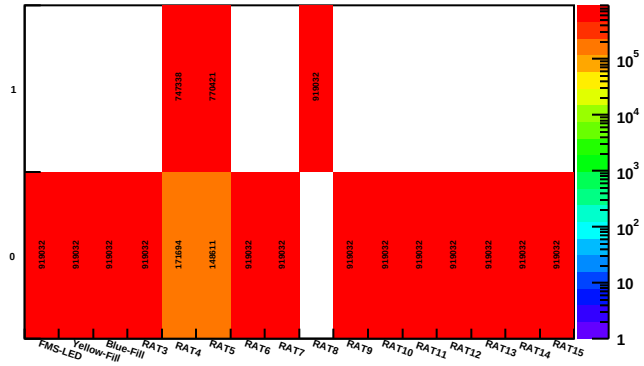
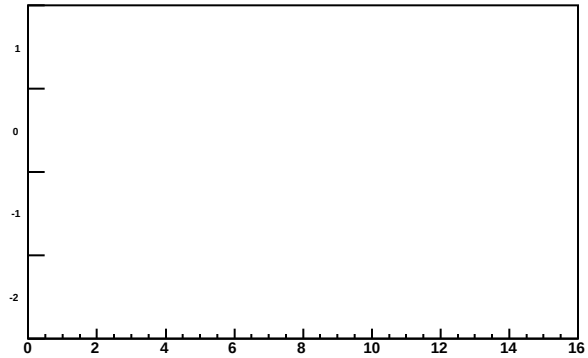
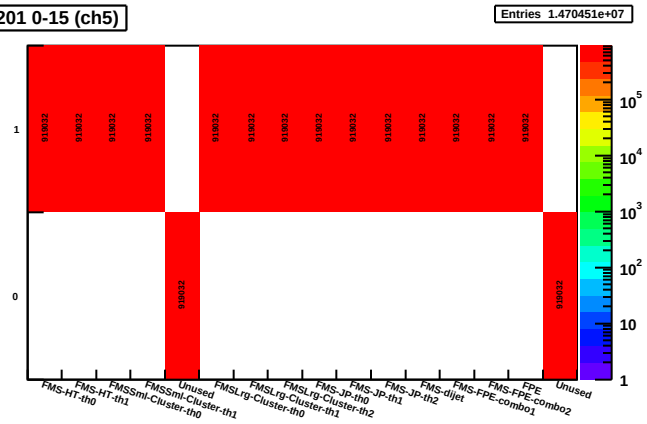
RAT board (ch4)





FP201 0-15 (ch5)



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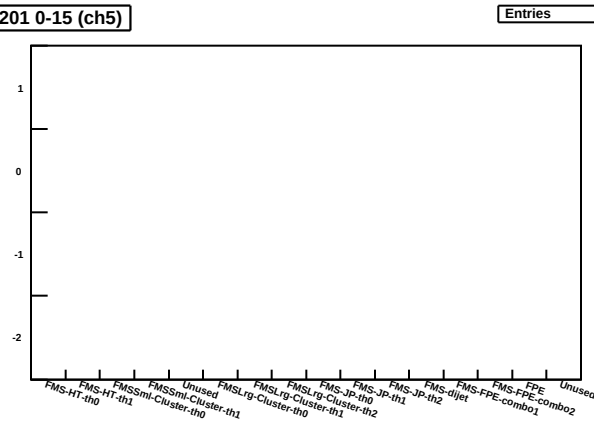
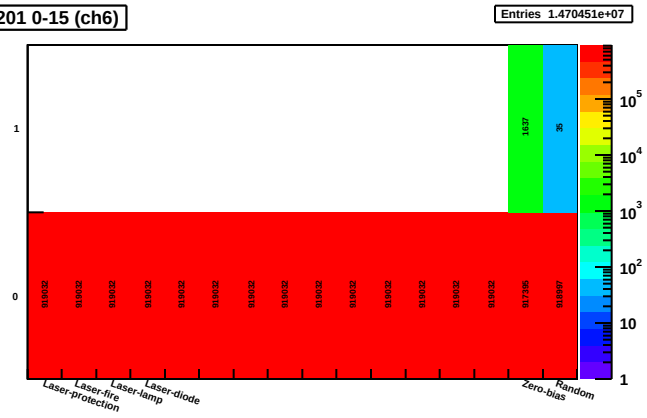
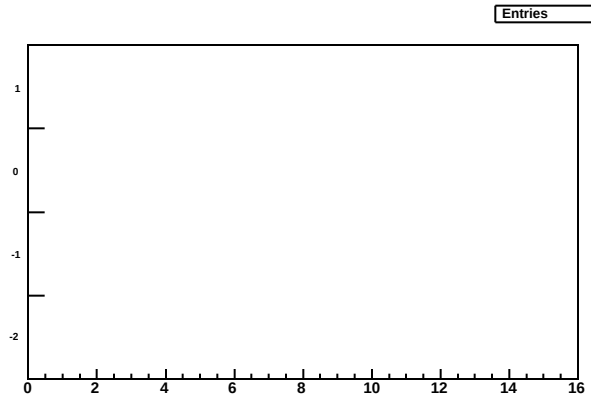
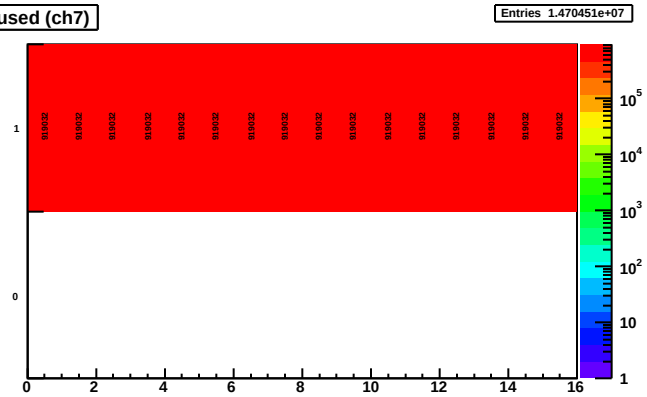
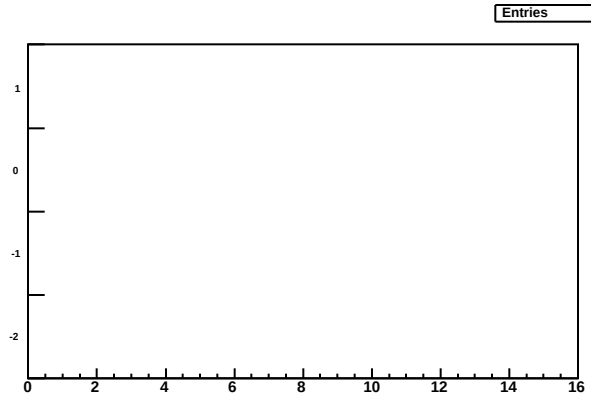


ST201 0-15 (ch6)





Unused (ch7)