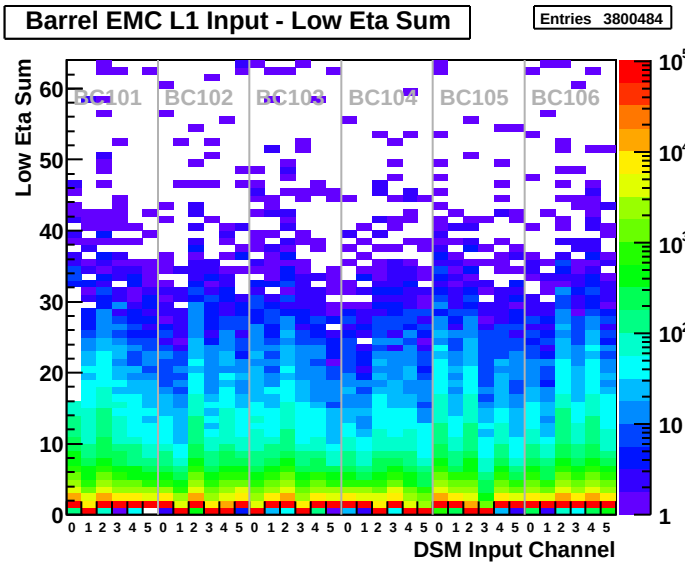
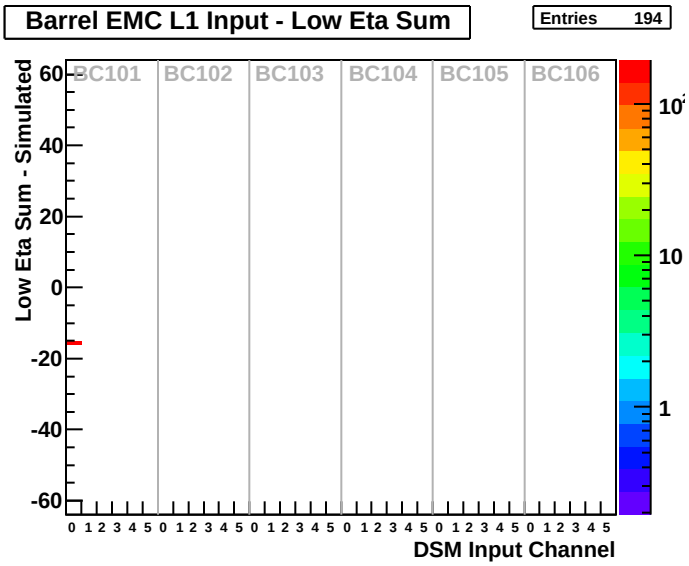
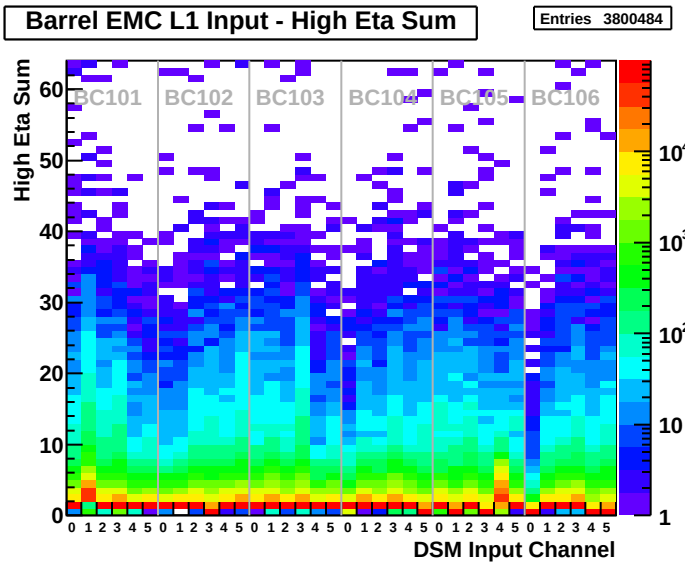
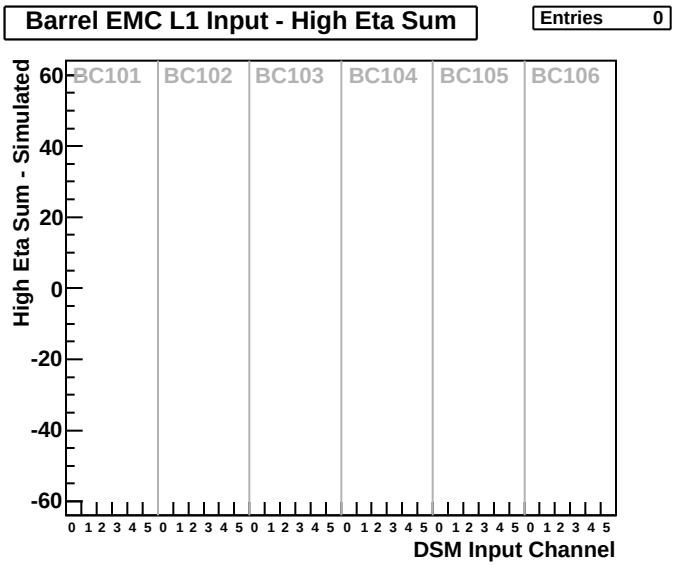
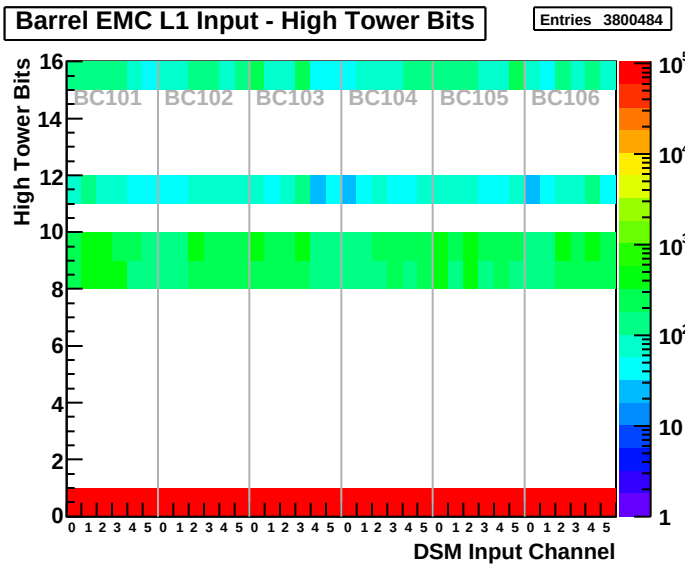
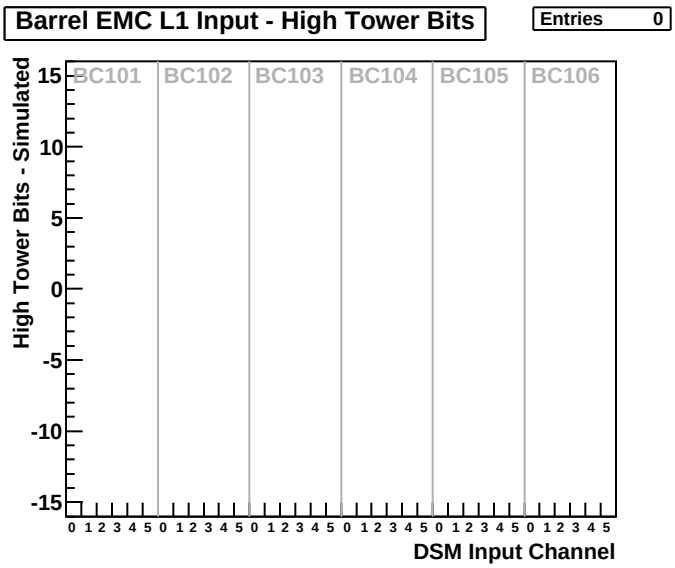

Barrel EMC L1 Input - Low Eta Sum
Entries 3800484
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

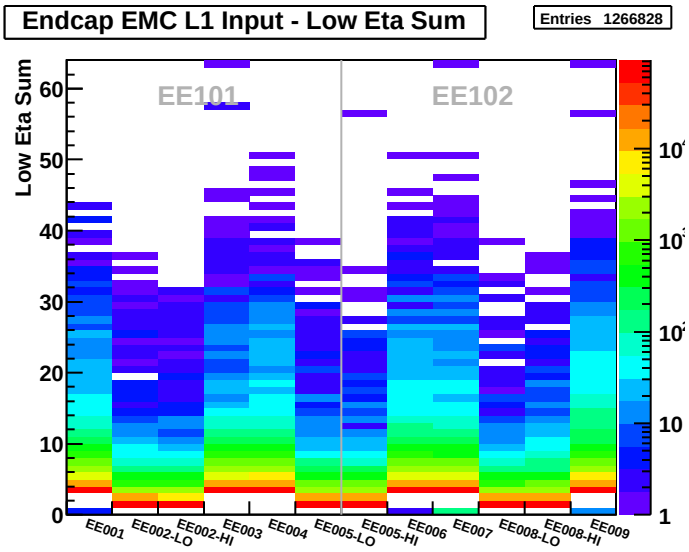

Barrel EMC L1 Input - Low Eta Sum
Entries 194
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

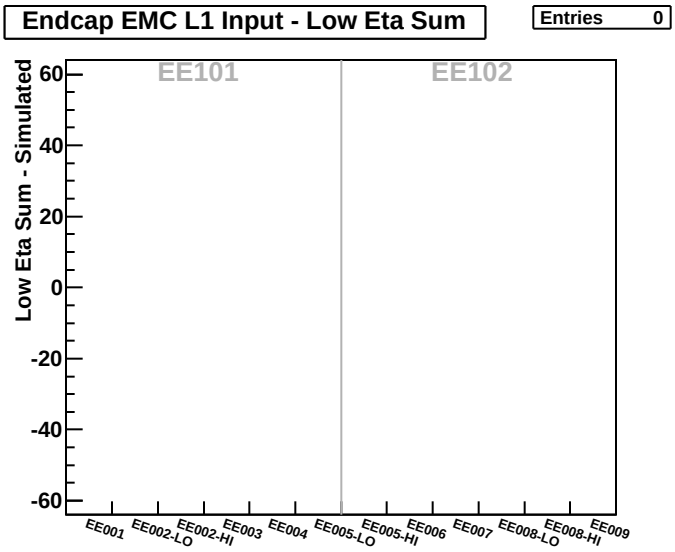

Barrel EMC L1 Input - High Eta Sum
Entries 3800484
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

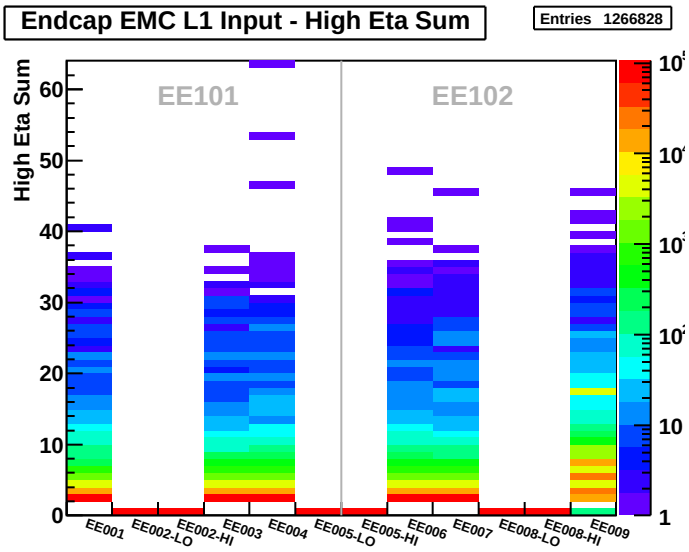

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

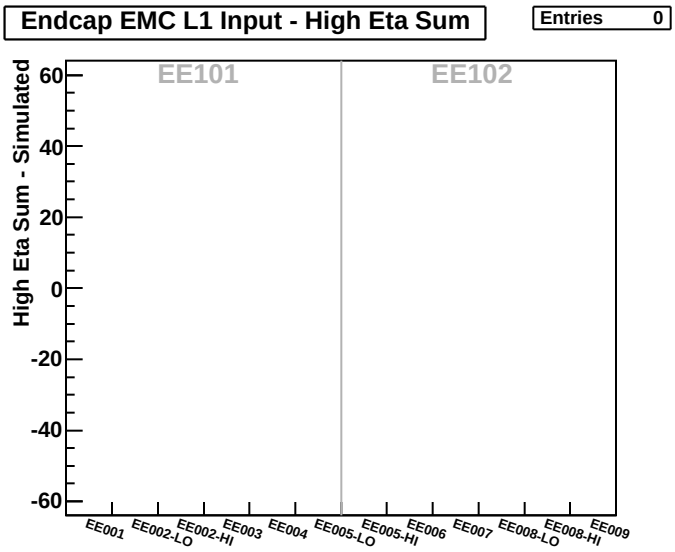

Barrel EMC L1 Input - High Tower Bits
Entries 3800484
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

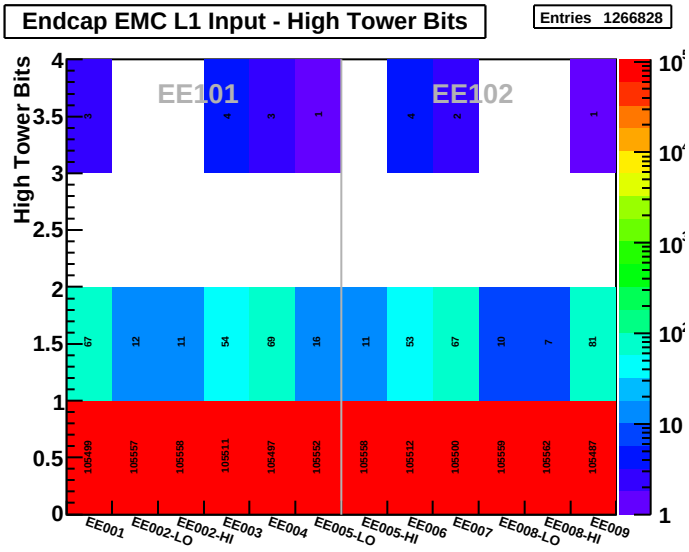

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

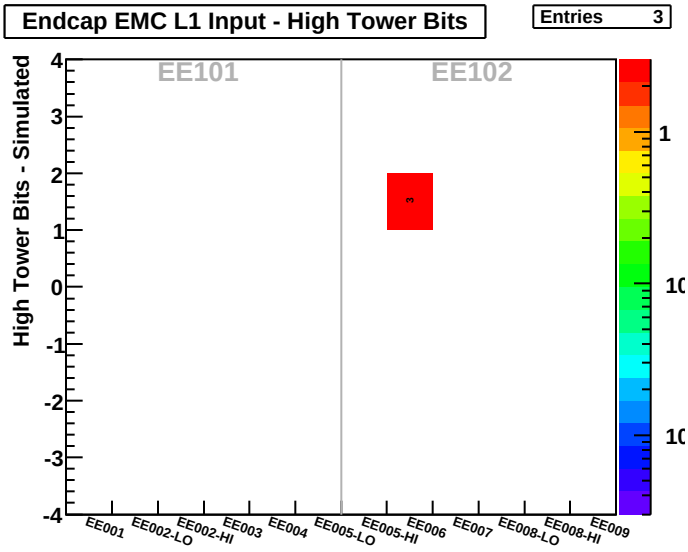

Endcap EMC L1 Input - Low Eta Sum
Entries 1266828
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

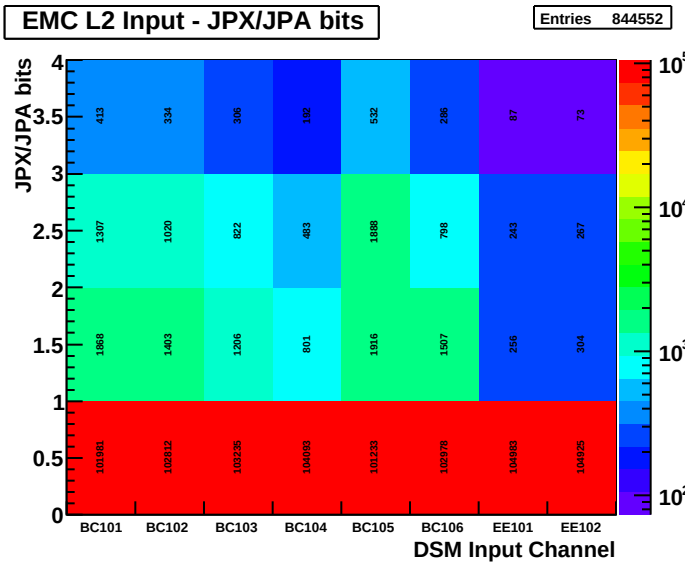

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

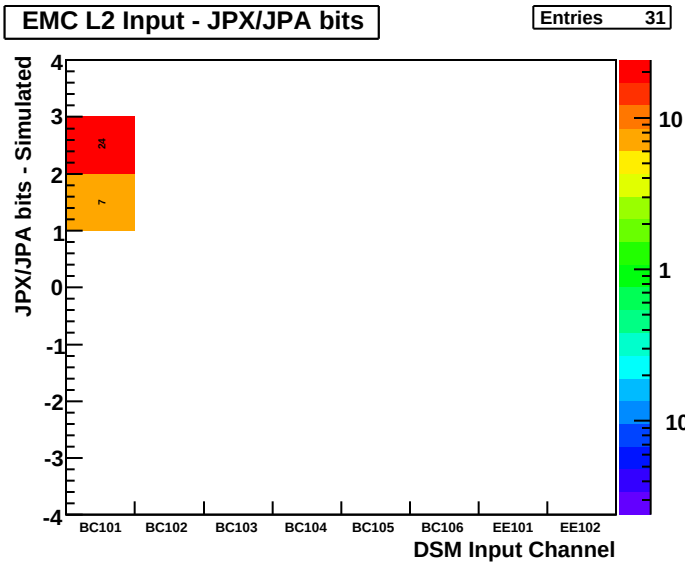

Endcap EMC L1 Input - High Eta Sum
Entries 1266828
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

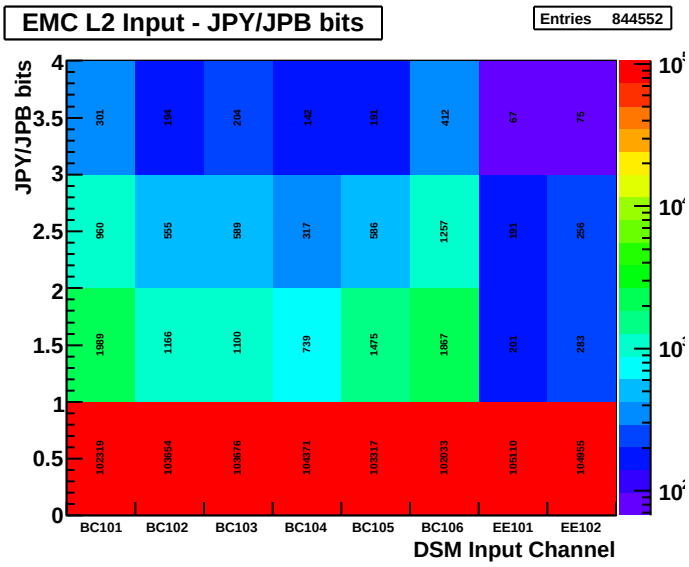

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

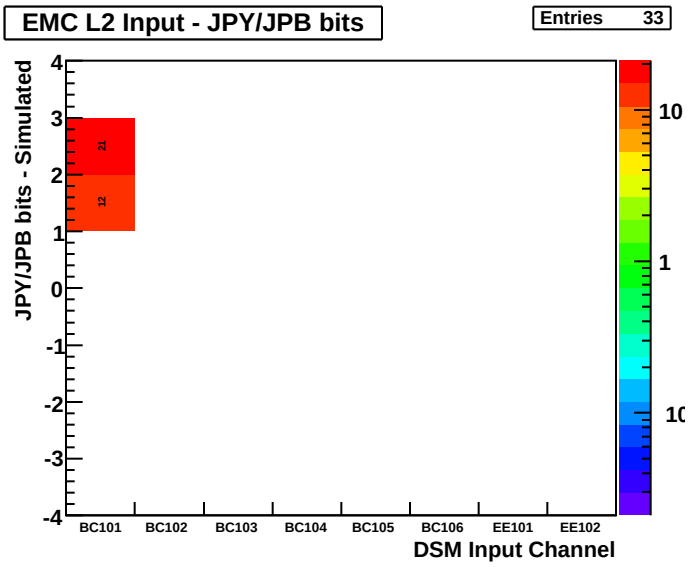

Endcap EMC L1 Input - High Tower Bits
Entries 1266828
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

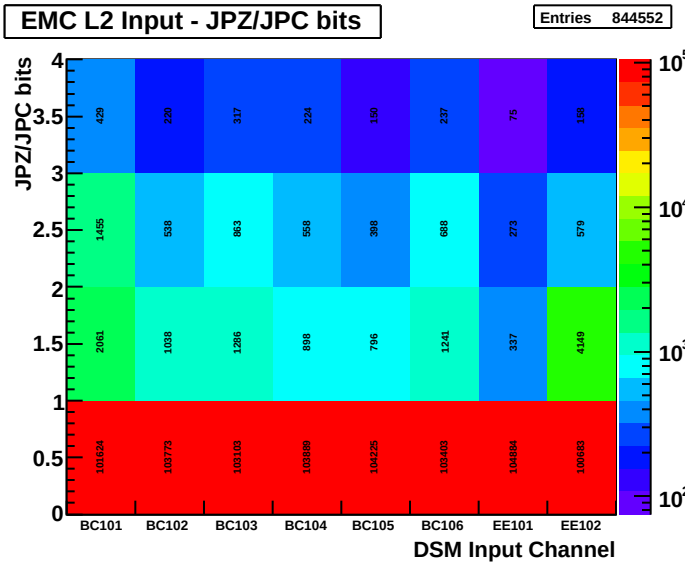

Endcap EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

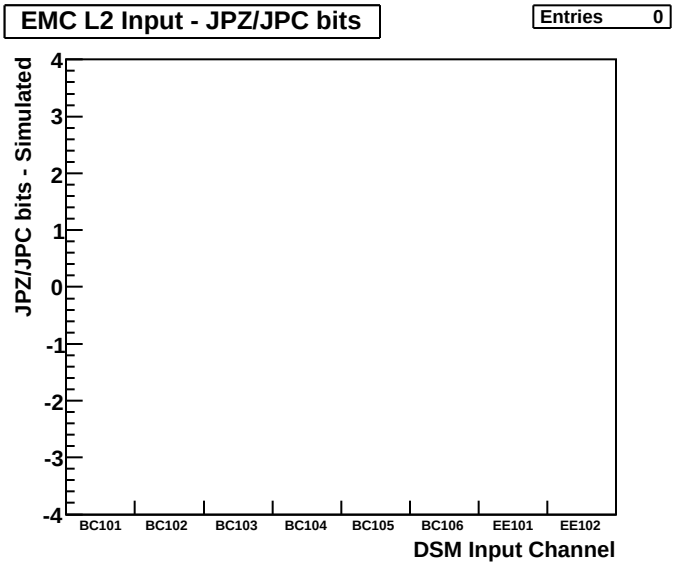

EMC L2 Input - JPX/JPA bits
Entries 844552
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
413 334 306 192 532 286 87 73
1307 1020 822 483 1888 798 243 267
1868 1403 1206 801 1916 1507 256 304
101961 102812 102235 104093 101233 102978 104983 104925

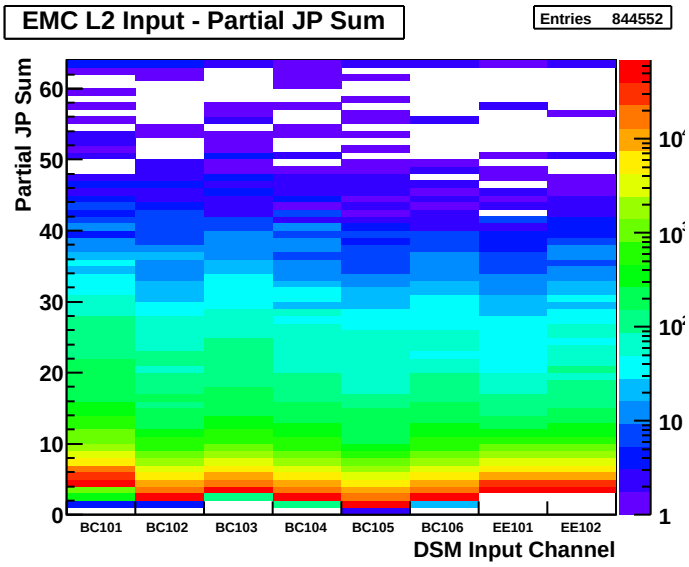

EMC L2 Input - JPX/JPA bits
Entries 31
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
24
7

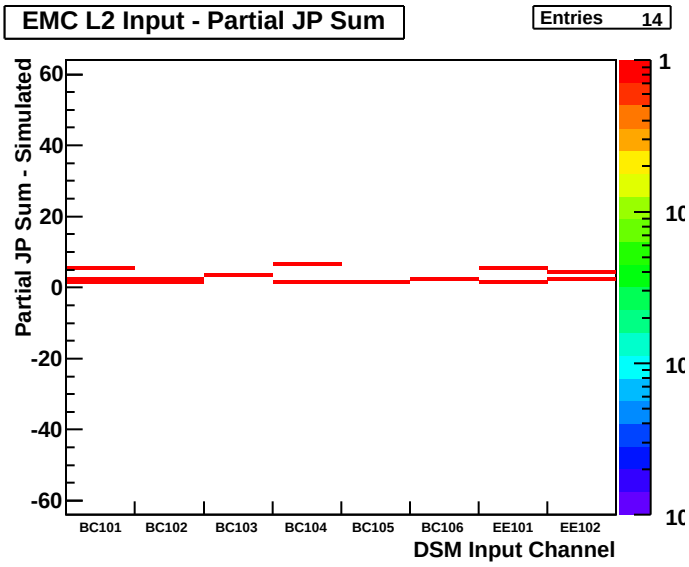

EMC L2 Input - JPY/JPB bits
Entries 844552
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
301 194 204 142 191 412 67 75
960 555 589 317 586 1257 191 256
1989 1166 1100 739 1475 1867 201 283
102319 103654 103676 104371 103317 102033 105110 104955

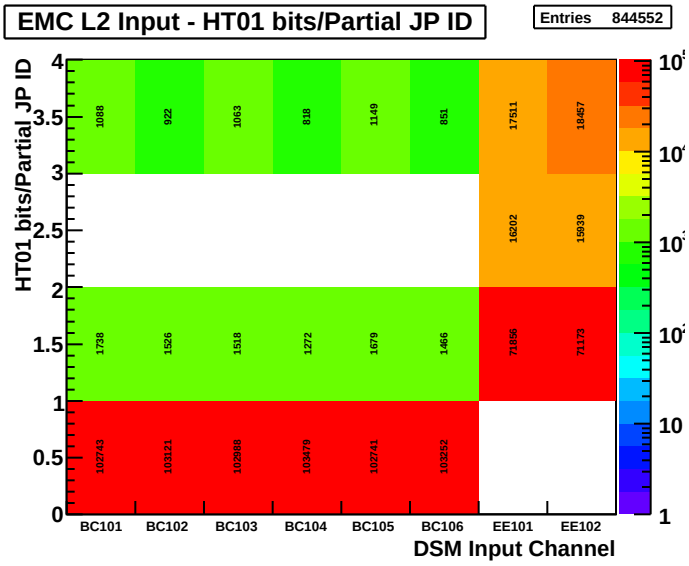

EMC L2 Input - JPY/JPB bits
Entries 33
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
21
12

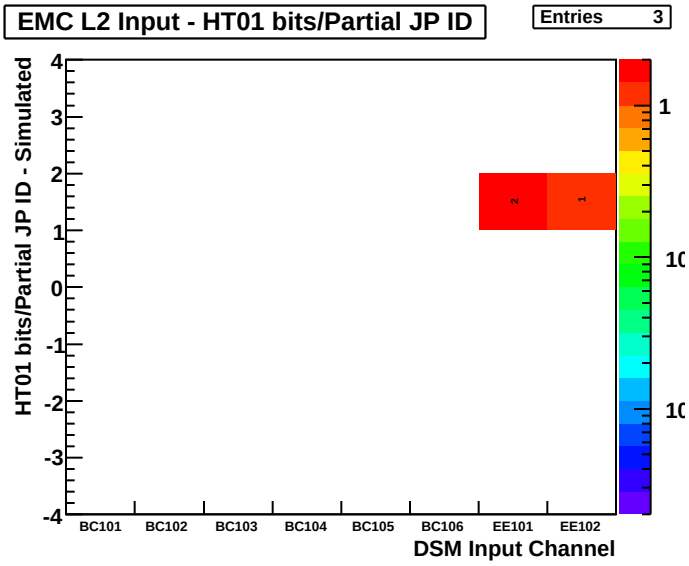

EMC L2 Input - JPZ/JPC bits
Entries 844552
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
429 220 317 224 150 237 75 158
1455 538 863 558 398 688 273 579
2061 1038 1286 898 796 1241 337 4149
101624 103773 103103 103880 104225 103403 104884 100633

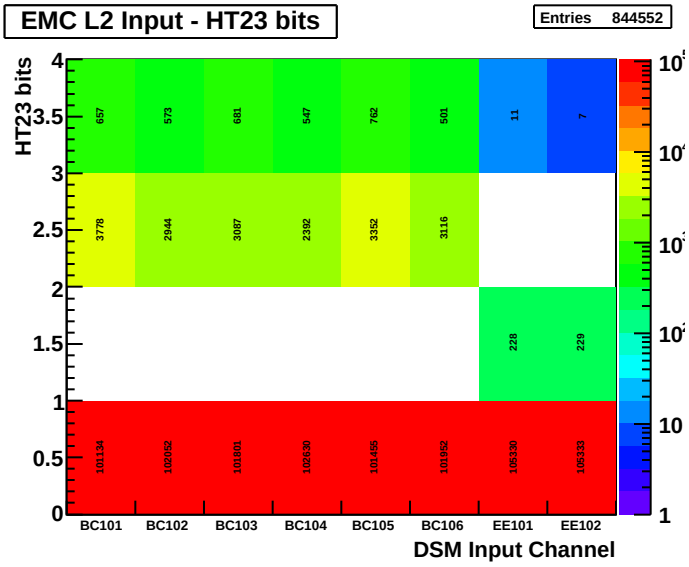

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

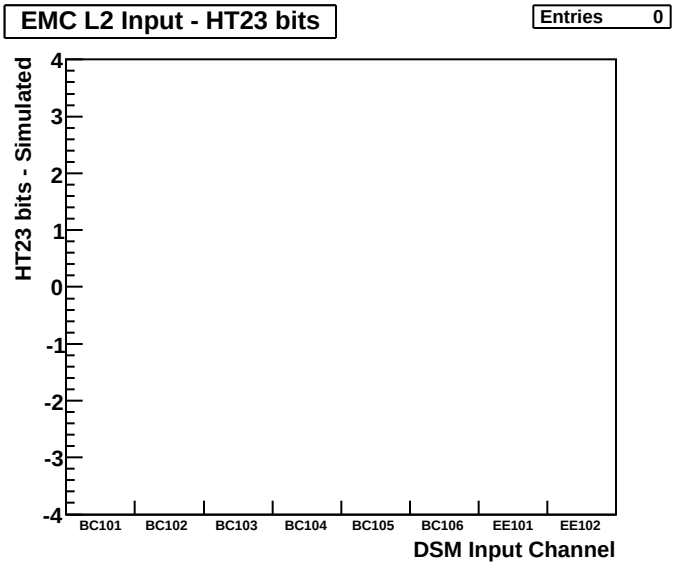

EMC L2 Input - Partial JP Sum
Entries 844552
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

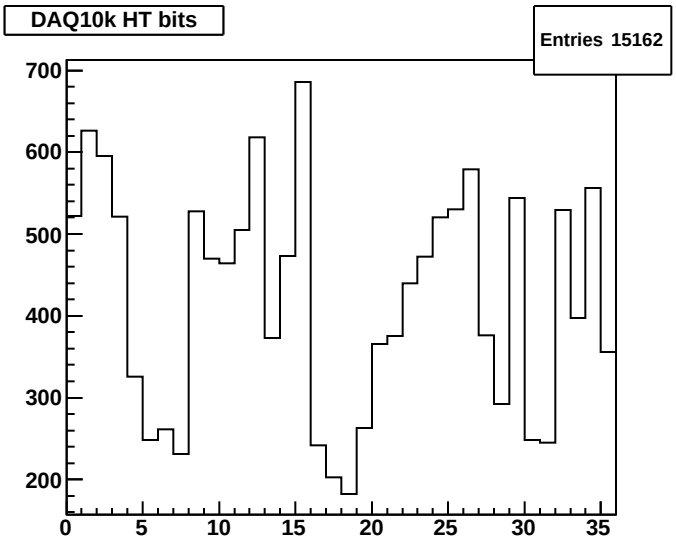

EMC L2 Input - Partial JP Sum
Entries 14
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

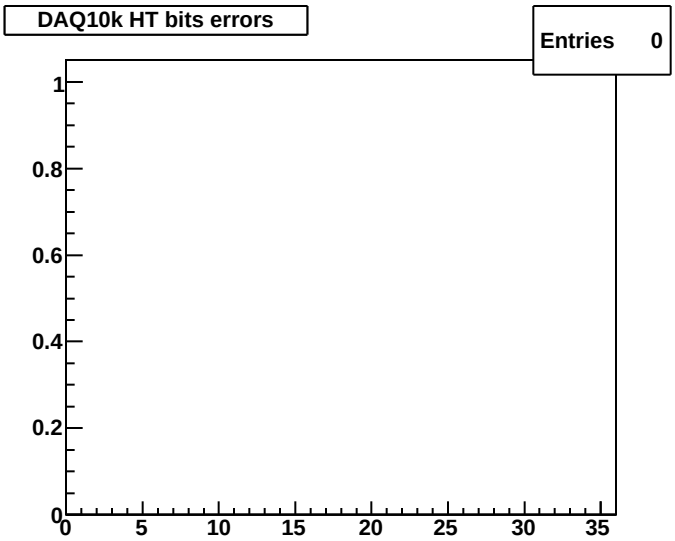

EMC L2 Input - HT01 bits/Partial JP ID
Entries 844552
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

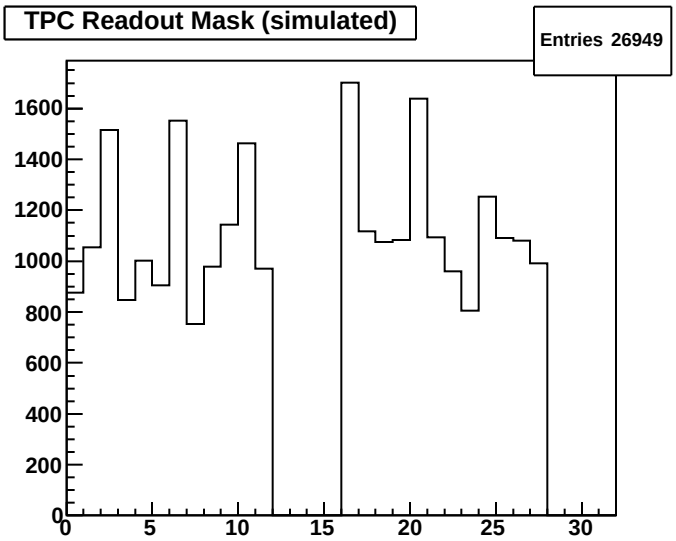

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

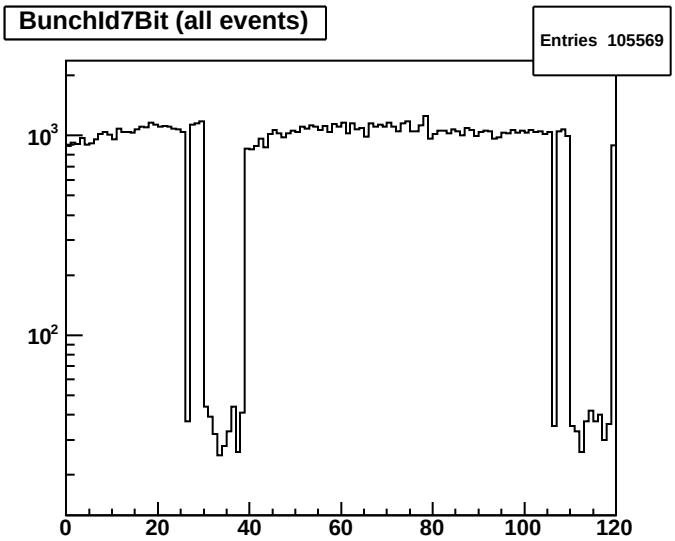

EMC L2 Input - HT23 bits
Entries 844552
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

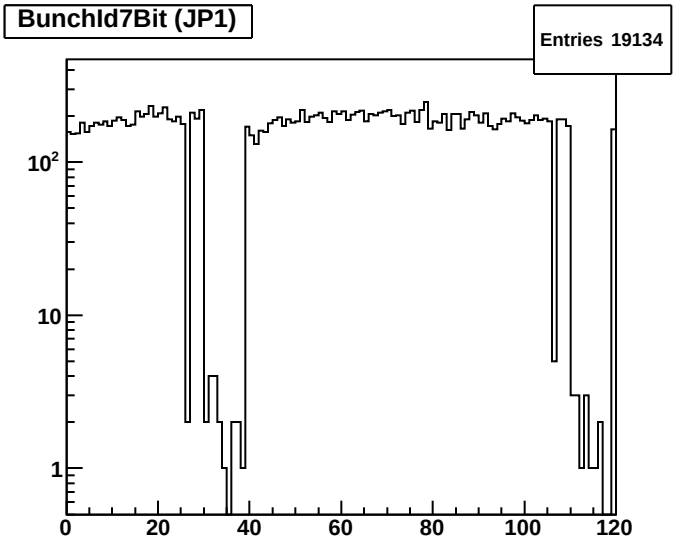

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

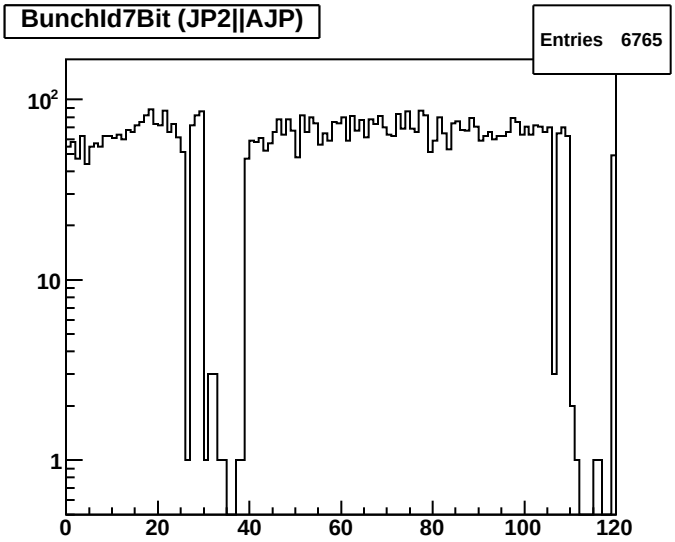

DAQ10k HT bits
Entries 15162

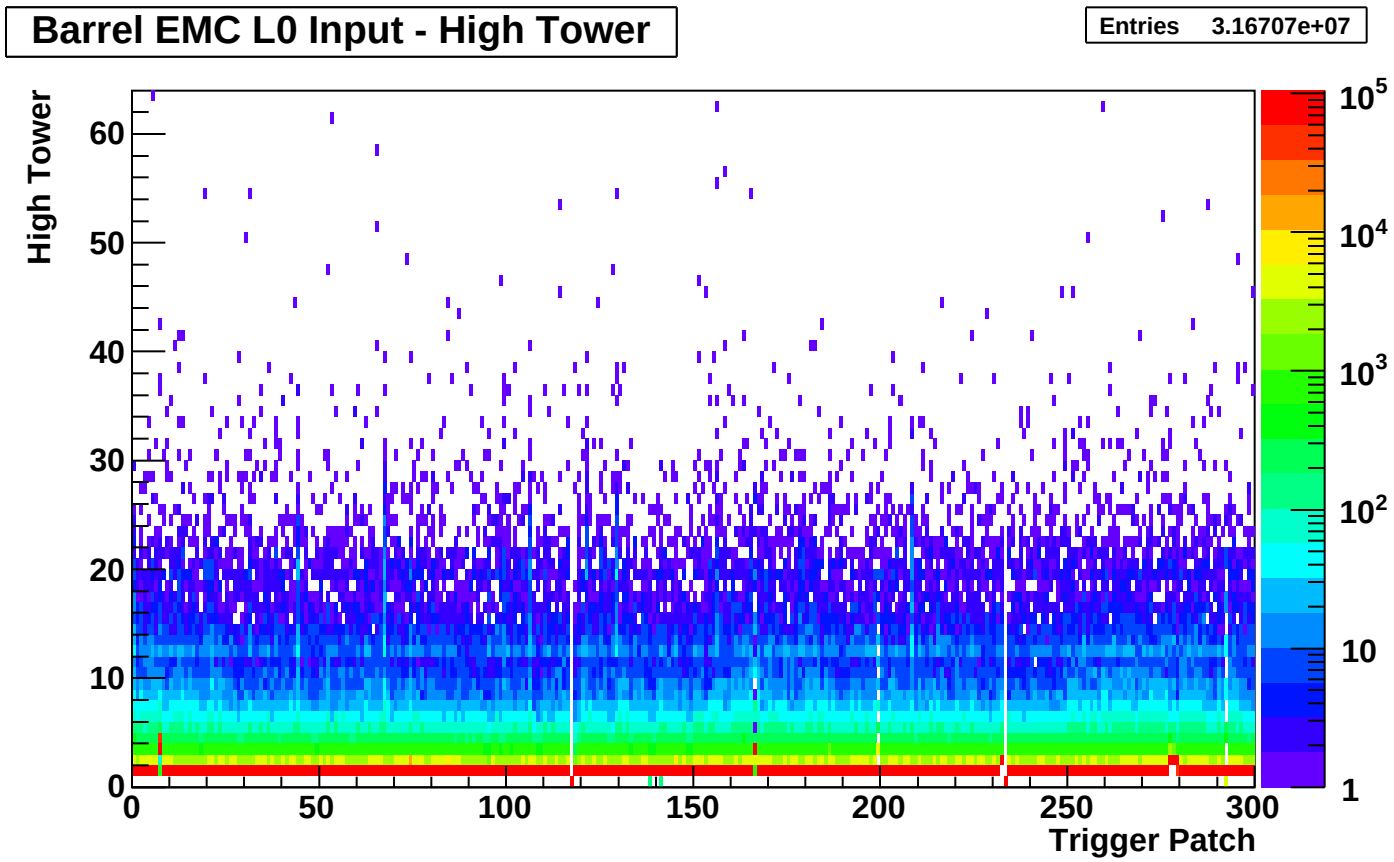

DAQ10k HT bits errors
Entries 0

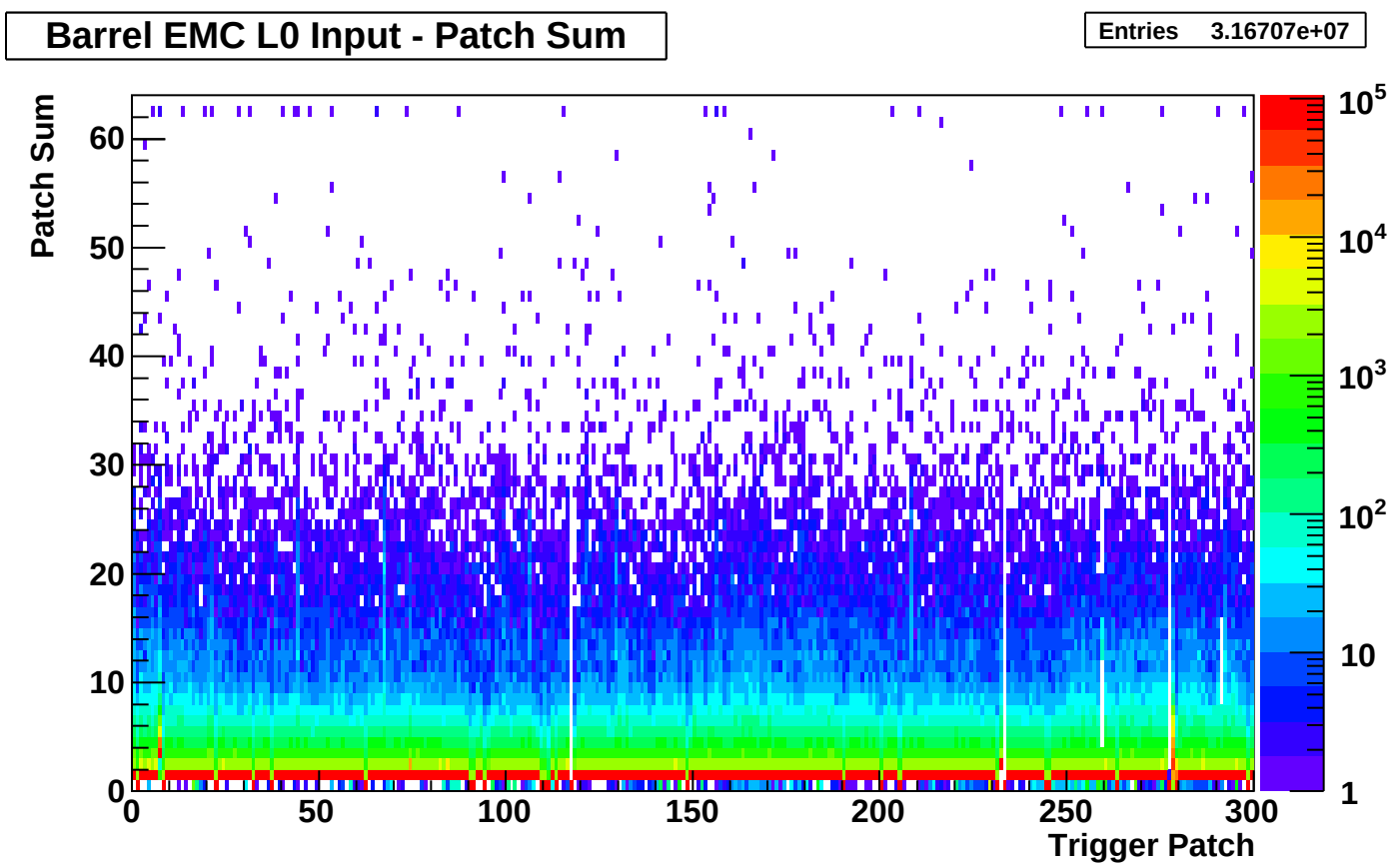

TPC Readout Mask (simulated)
Entries 26949

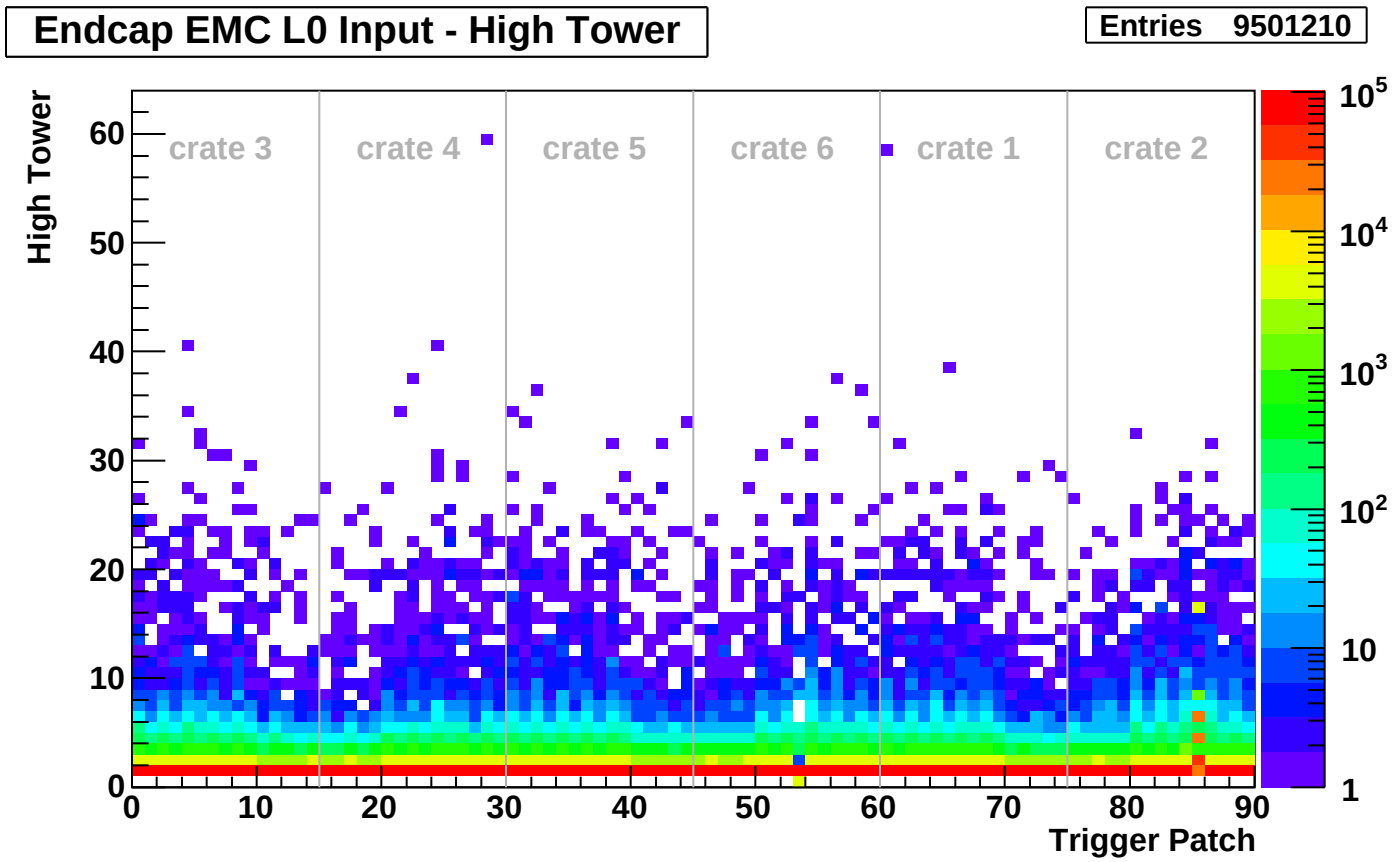

BunchId7Bit (all events)
Entries 105569

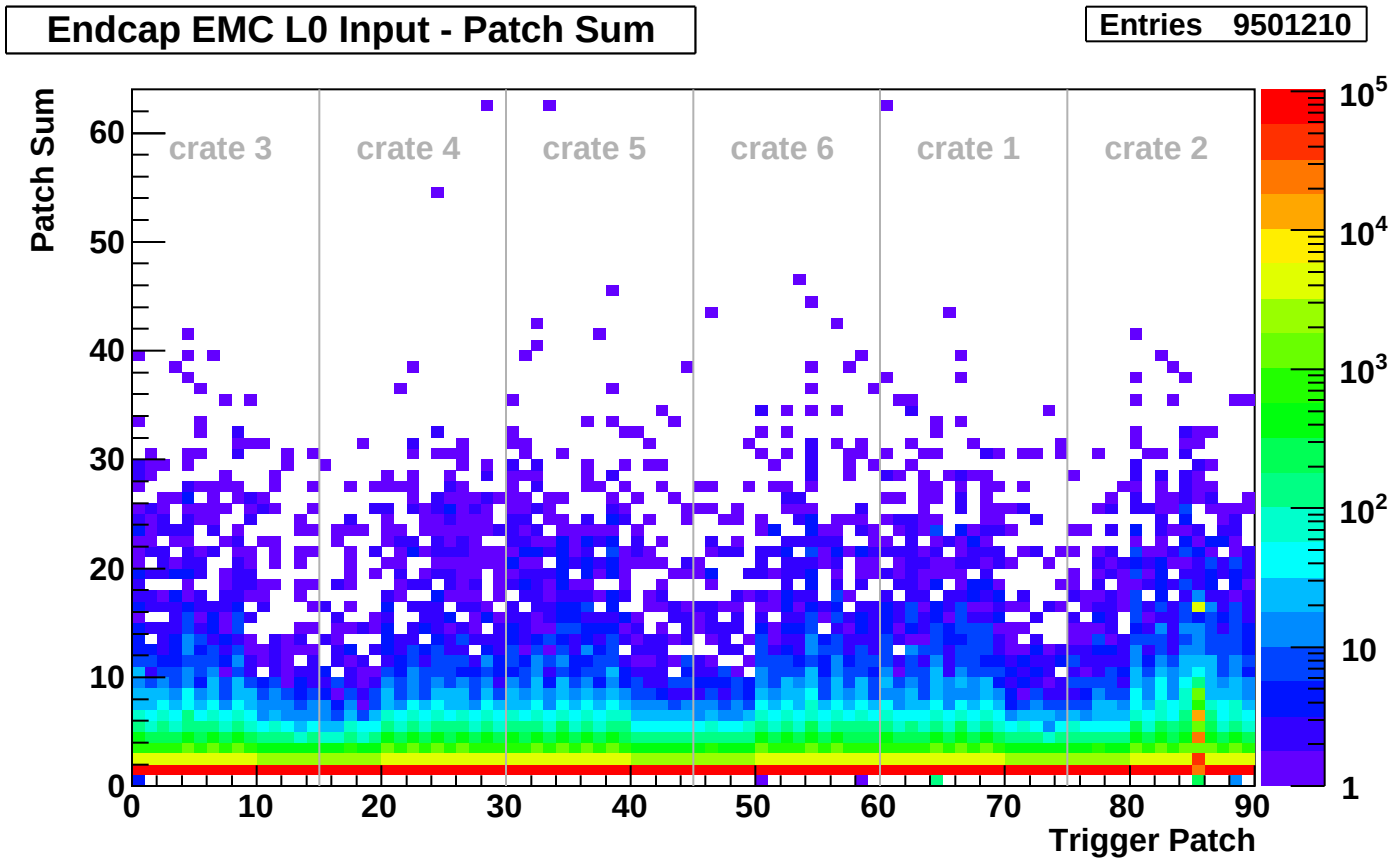

BunchId7Bit (JP1)
Entries 19134

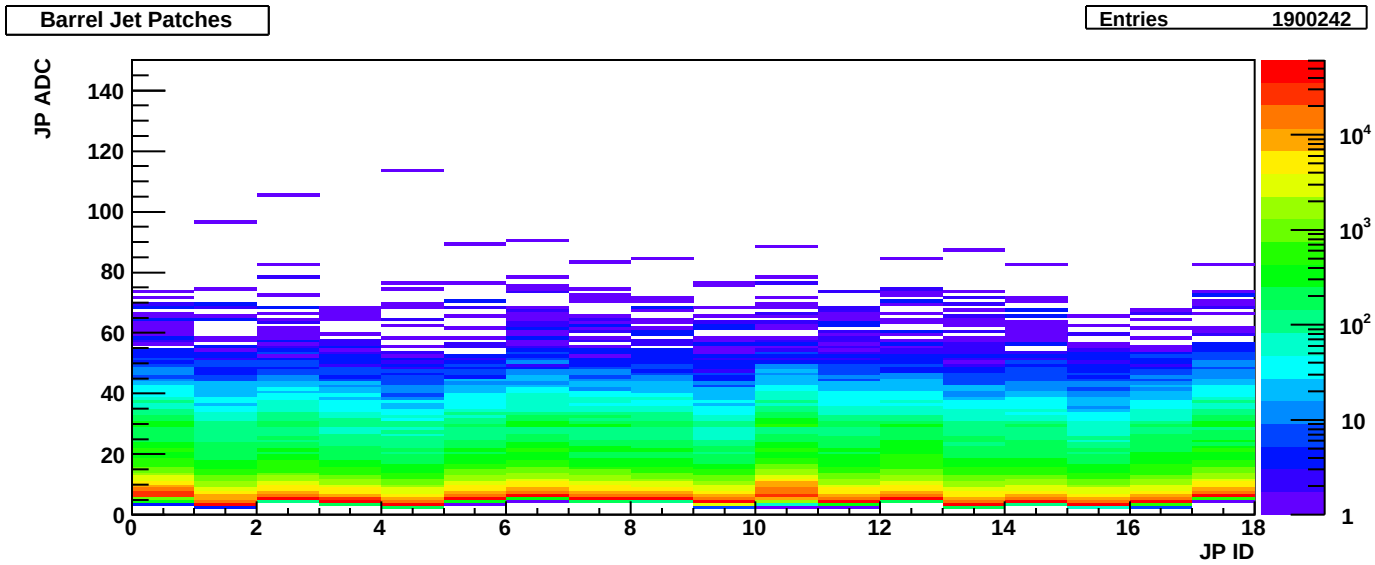

BunchId7Bit (JP2||AJP)
Entries 6765

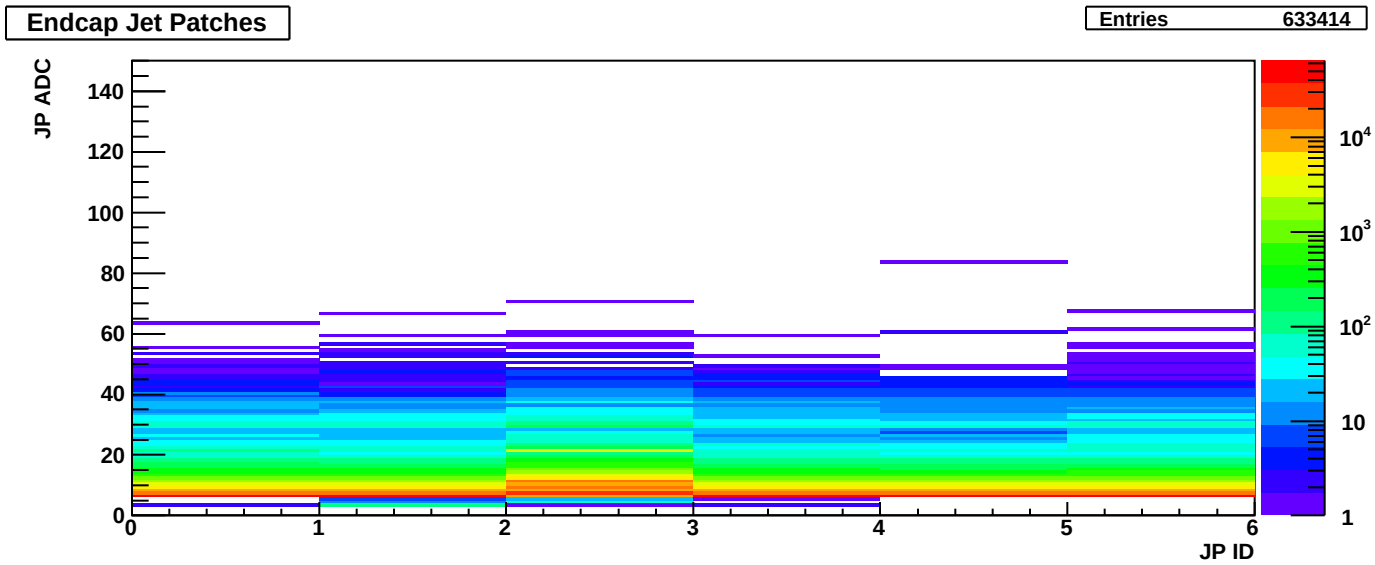

Barrel EMC L0 Input - High Tower
Entries 3.16707e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

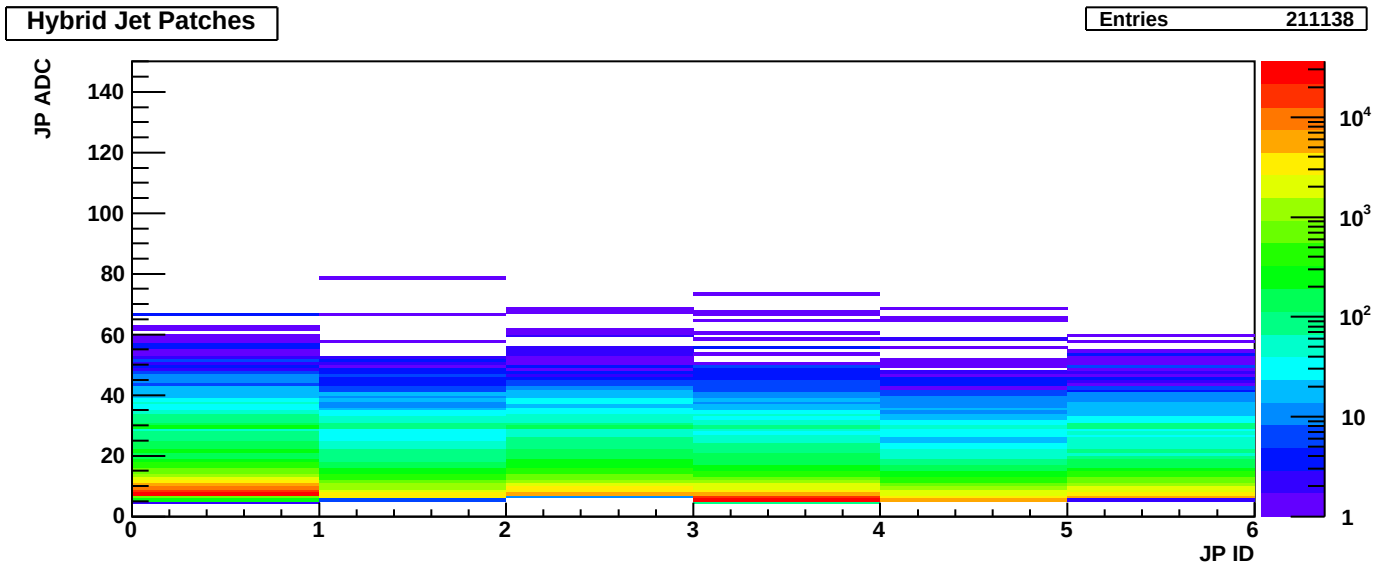

Barrel EMC L0 Input - Patch Sum
Entries 3.16707e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

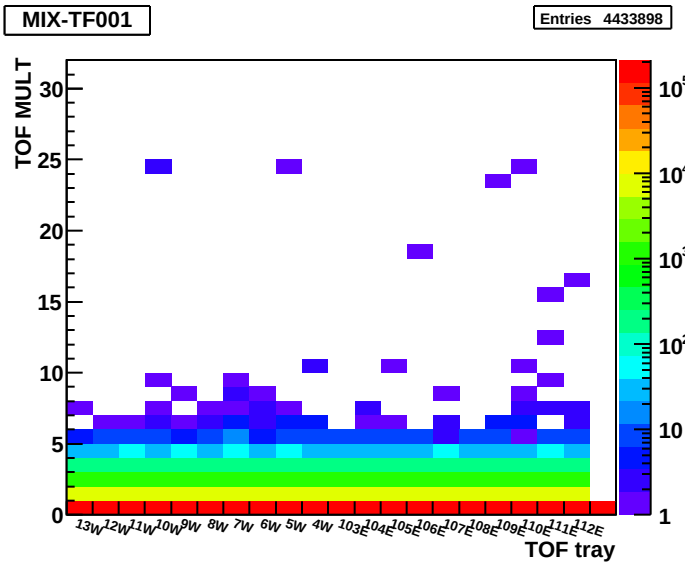

Endcap EMC L0 Input - High Tower
Entries 9501210
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

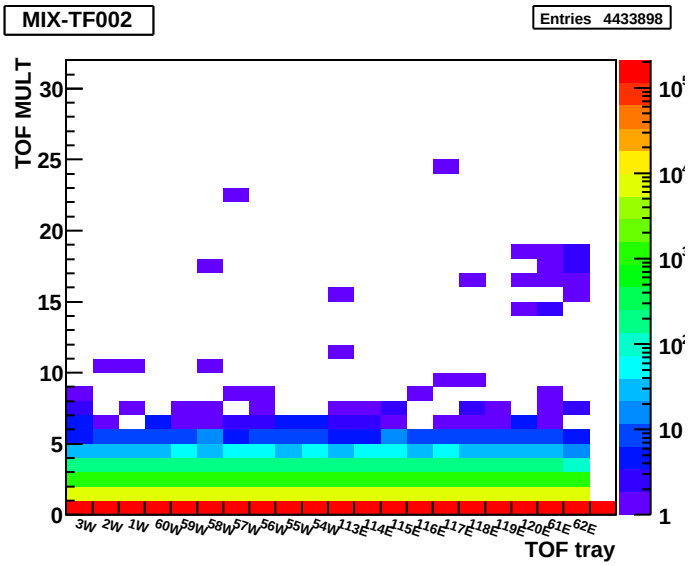

Endcap EMC L0 Input - Patch Sum
Entries 9501210
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

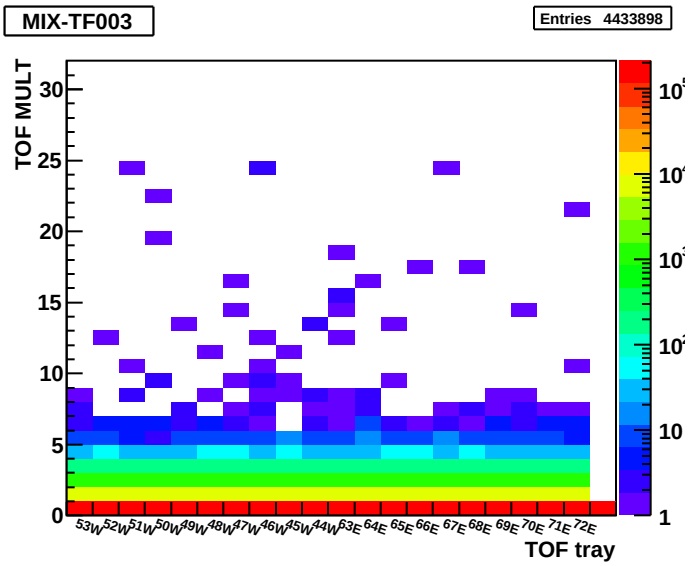

Barrel Jet Patches
Entries 1900242
JP ADC
JP ID

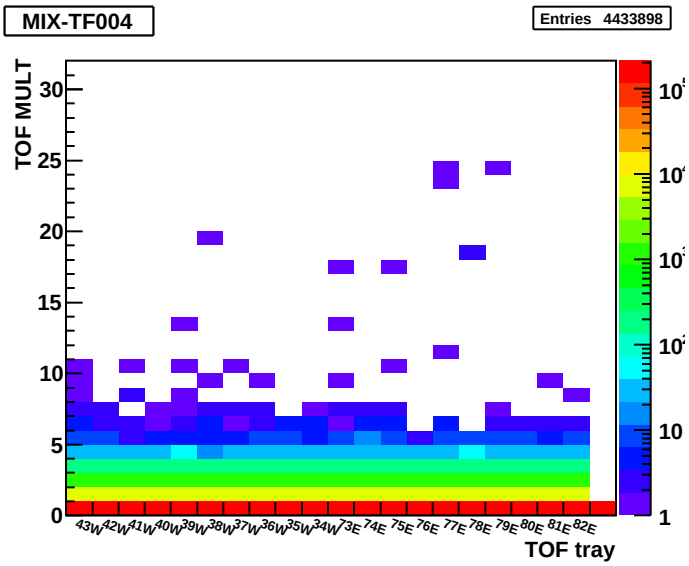

Endcap Jet Patches
Entries 633414
JP ADC
JP ID

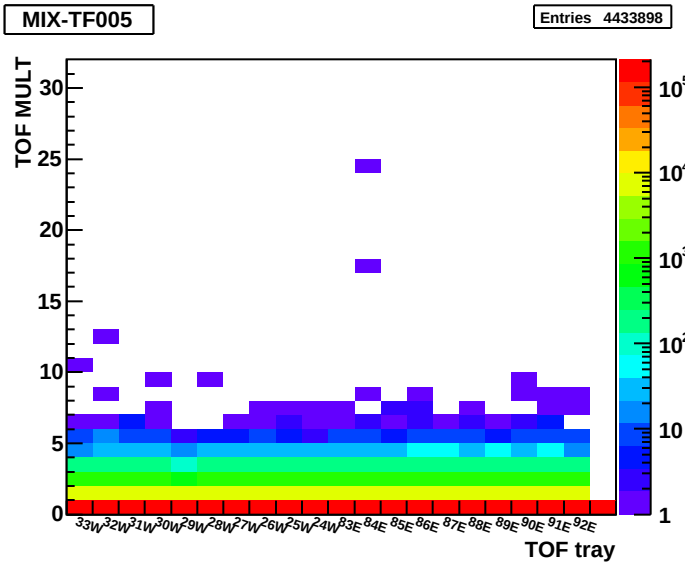

Hybrid Jet Patches
Entries 211138
JP ADC
JP ID

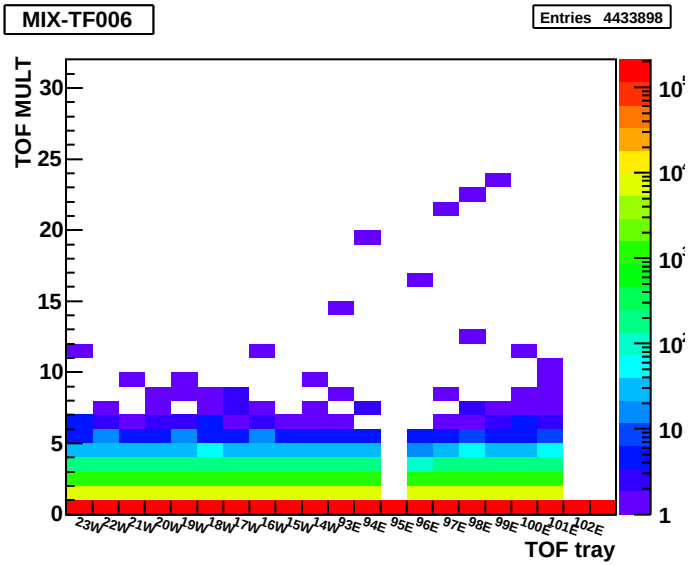

MIX-TF001
Entries 4433898
TOF MULT
TOF tray

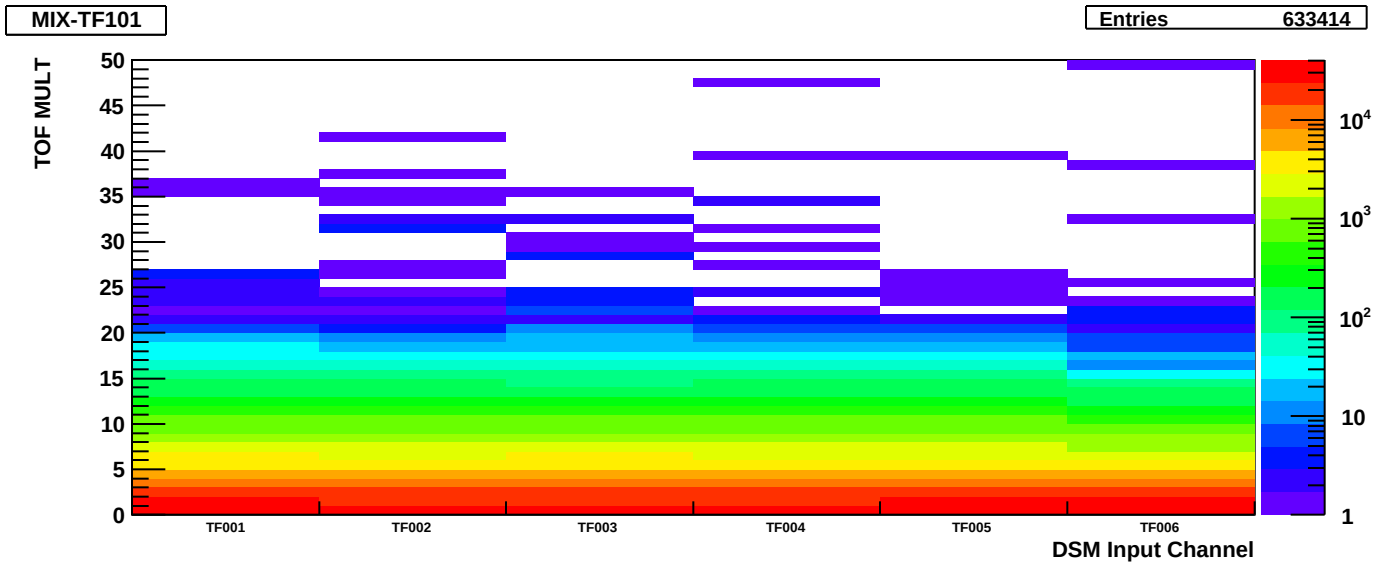

MIX-TF002
Entries 4433898
TOF MULT
TOF tray

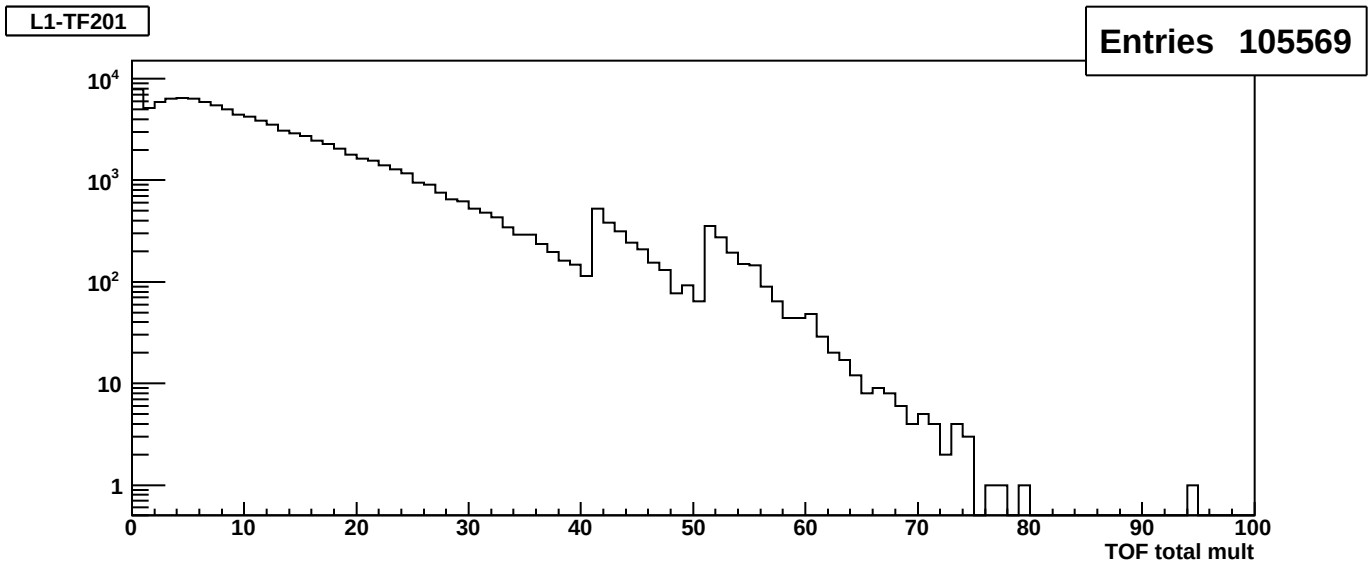

MIX-TF003
Entries 4433898
TOF MULT
TOF tray

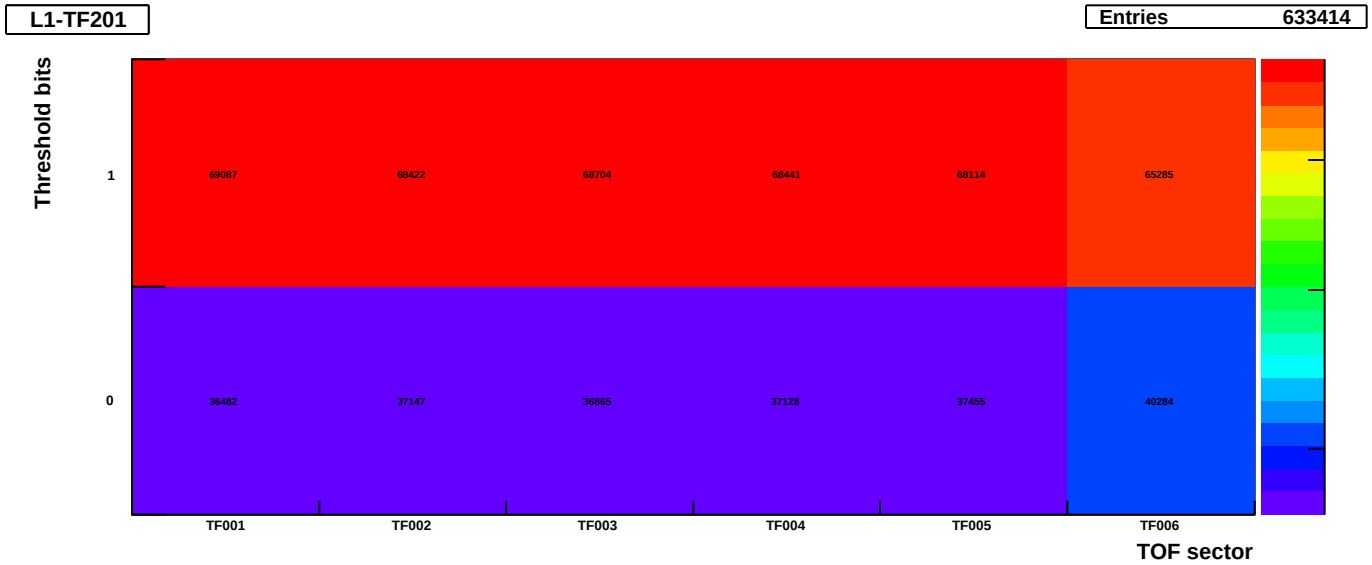

MIX-TF004
Entries 4433898
TOF MULT
TOF tray

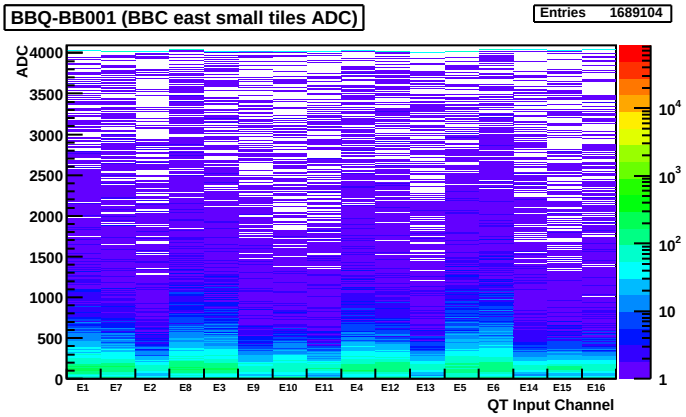

MIX-TF005
Entries 4433898
TOF MULT
TOF tray

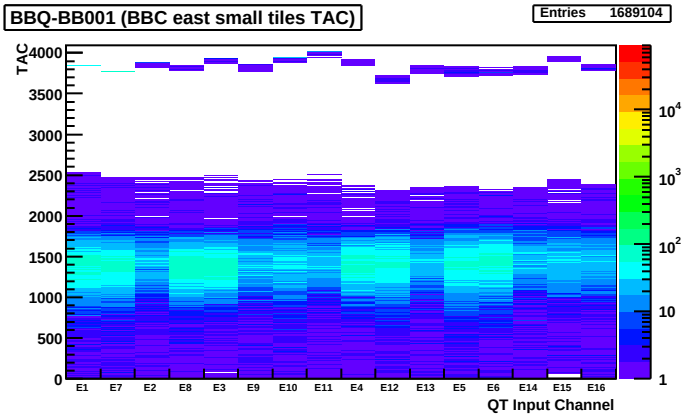

MIX-TF006
Entries 4433898
TOF MULT
TOF tray

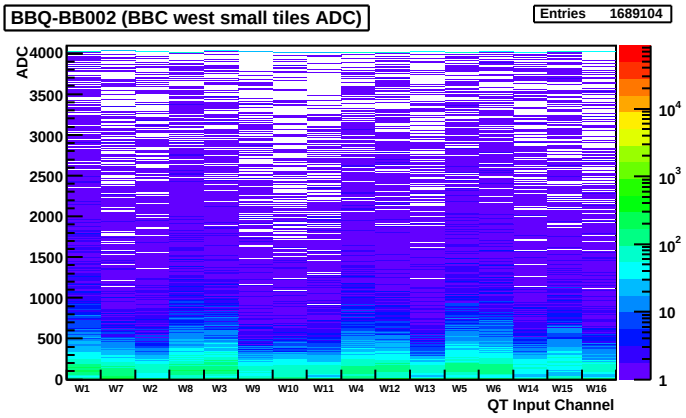

MIX-TF101
Entries 633414
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

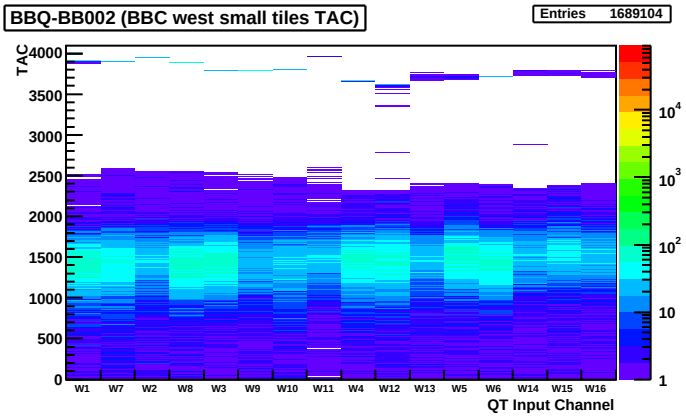

L1-TF201
Entries 105569
TOF total mult

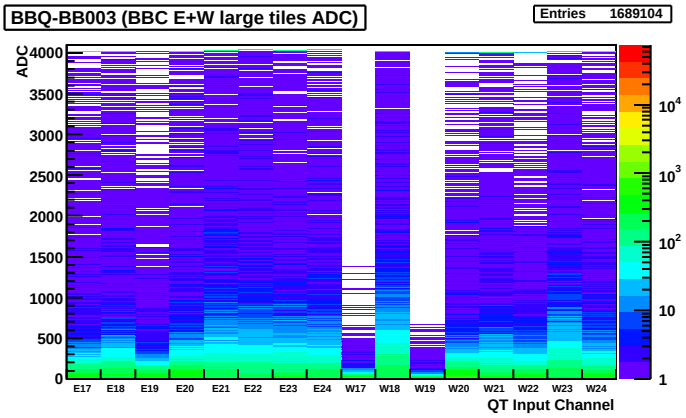

L1-TF201
Entries 633414
Threshold bits
69087
68422
68704
68441
68114
65285
36482
37147
36865
37128
37455
40284
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

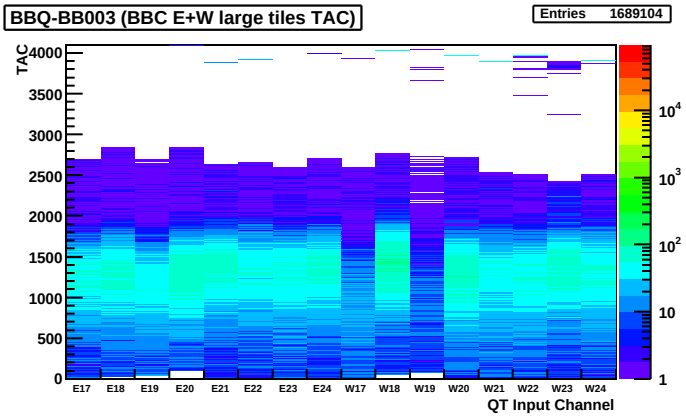

BBQ-BB001 (BBC east small tiles ADC)
Entries 1689104
ADC
QT Input Channel

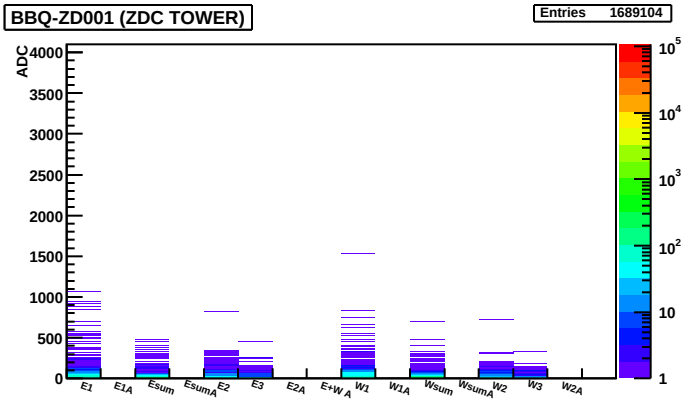

BBQ-BB001 (BBC east small tiles TAC)
Entries 1689104
TAC
QT Input Channel

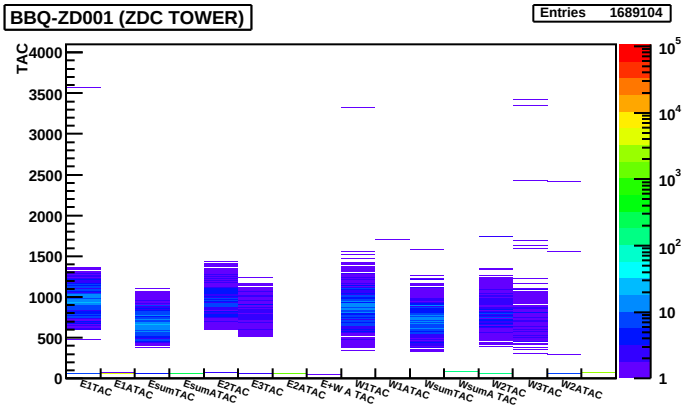

BBQ-BB002 (BBC west small tiles ADC)
Entries 1689104
ADC
QT Input Channel

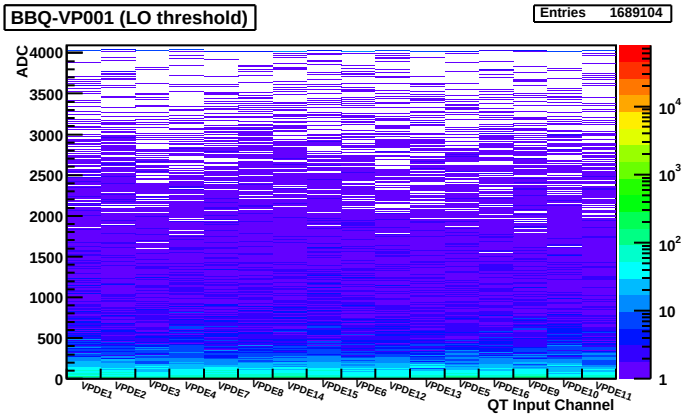

BBQ-BB002 (BBC west small tiles TAC)
Entries 1689104
TAC
QT Input Channel

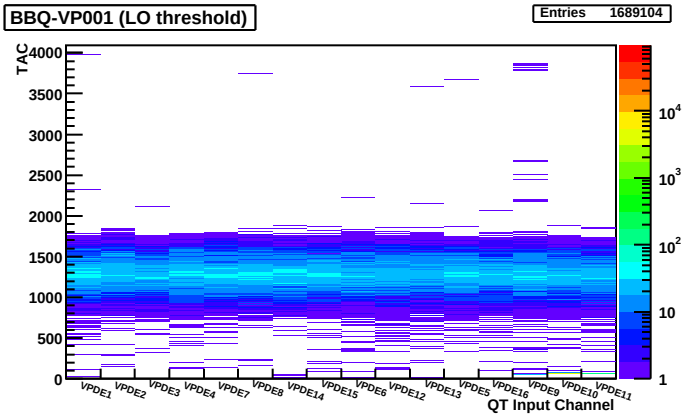

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1689104
ADC
QT Input Channel

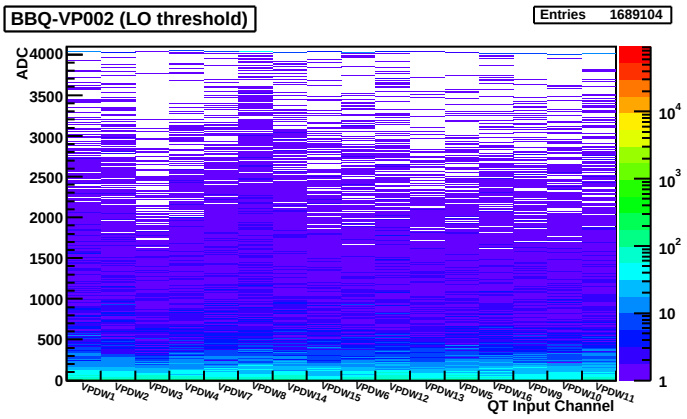

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1689104
TAC
QT Input Channel

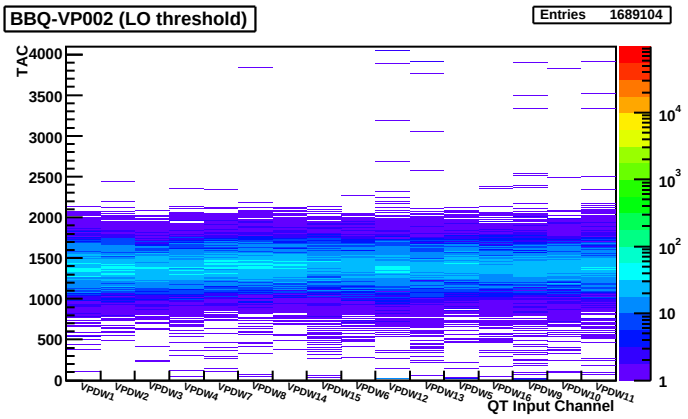

BBQ-ZD001 (ZDC TOWER)
Entries 1689104
ADC

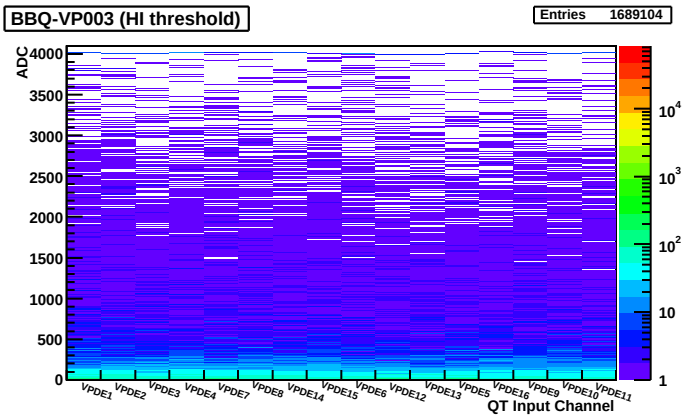

BBQ-ZD001 (ZDC TOWER)
Entries 1689104
TAC

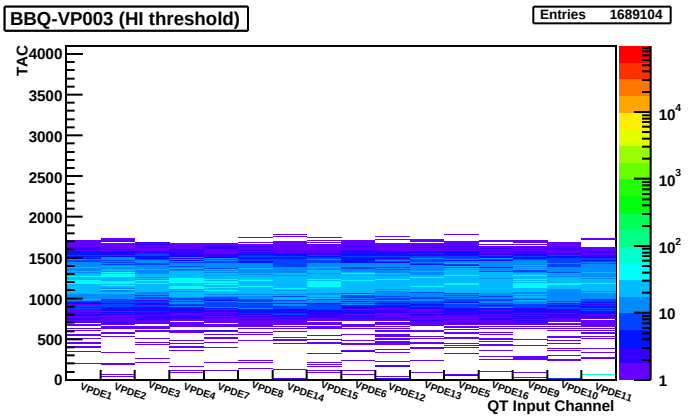

BBQ-VP001 (LO threshold)
Entries 1689104
ADC
QT Input Channel

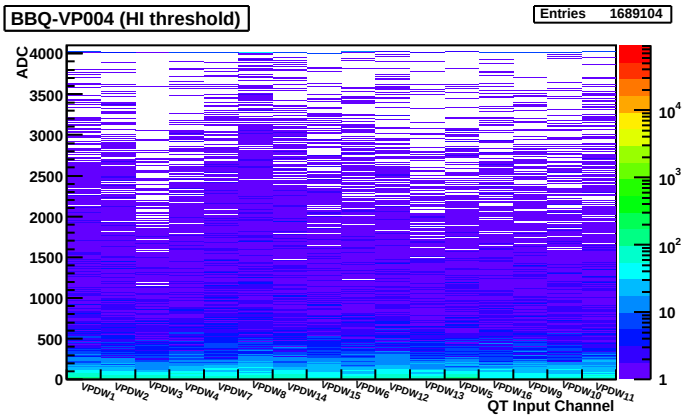

BBQ-VP001 (LO threshold)
Entries 1689104
TAC
QT Input Channel

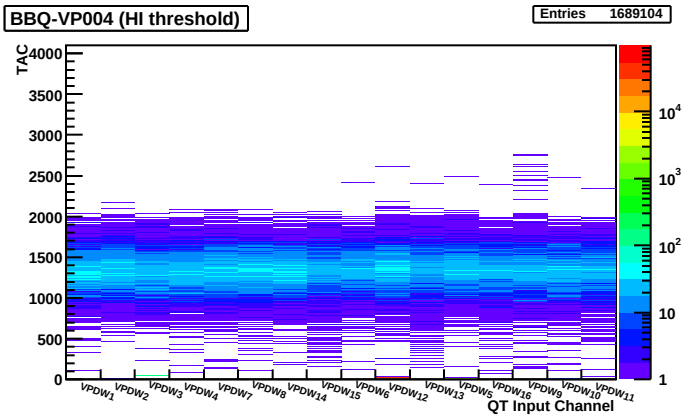

BBQ-VP002 (LO threshold)
Entries 1689104
ADC
QT Input Channel

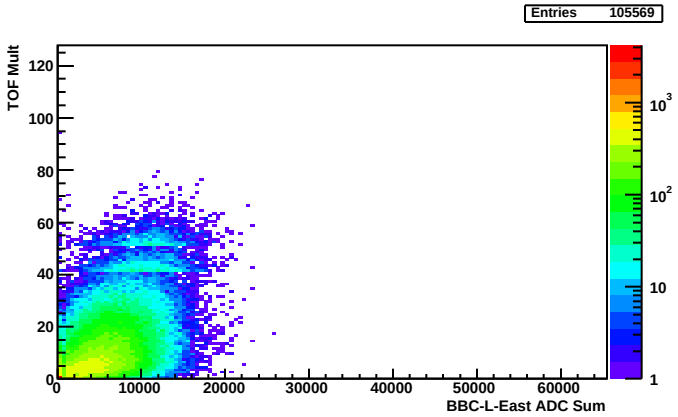

BBQ-VP002 (LO threshold)
Entries 1689104
TAC
QT Input Channel

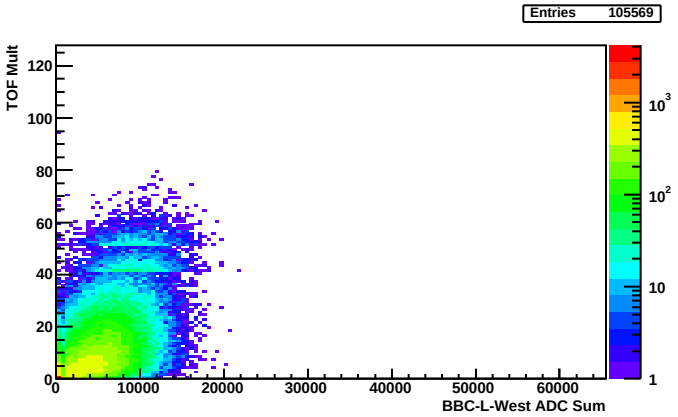

BBQ-VP003 (HI threshold)
Entries 1689104
ADC
QT Input Channel

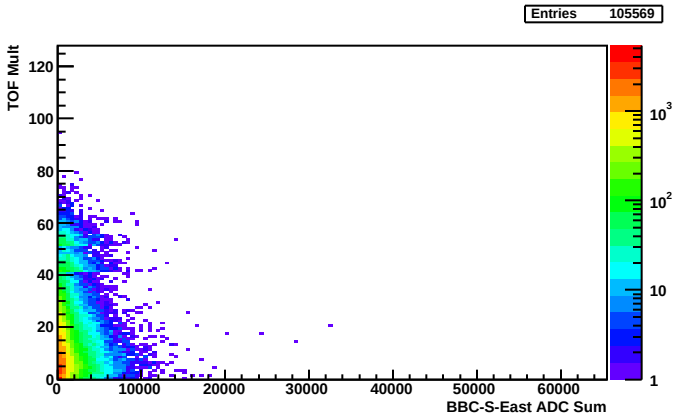

BBQ-VP003 (HI threshold)
Entries 1689104
TAC
QT Input Channel

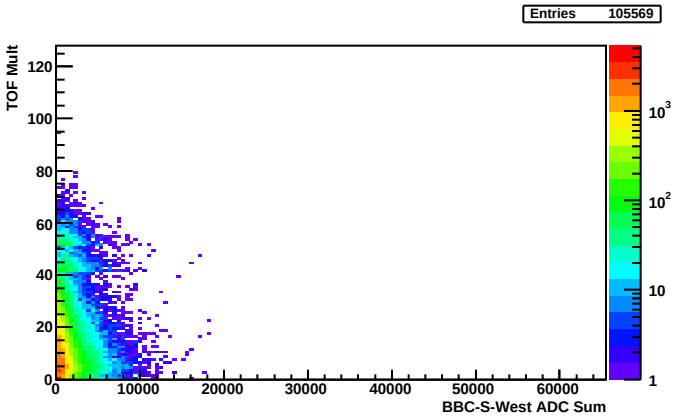

BBQ-VP004 (HI threshold)
Entries 1689104
ADC
QT Input Channel

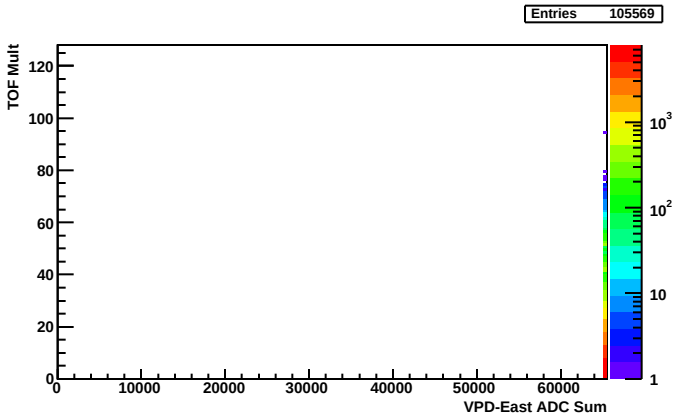

BBQ-VP004 (HI threshold)
Entries 1689104
TAC
QT Input Channel

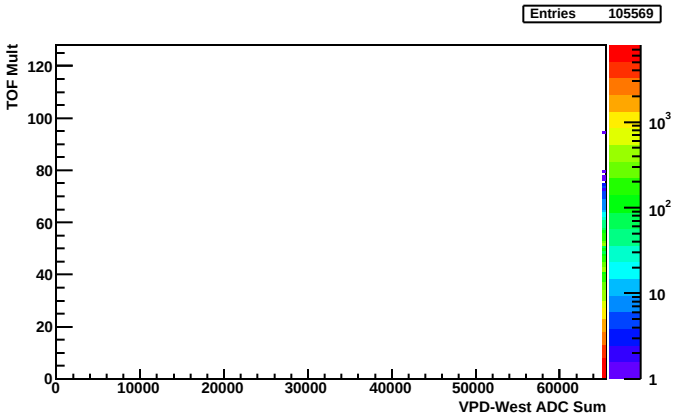

Entries 105569
TOF Mult
BBC-L-East ADC Sum

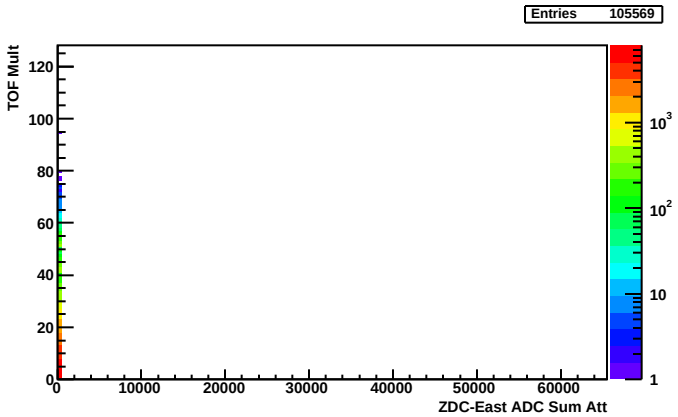

Entries 105569
TOF Mult
BBC-L-West ADC Sum

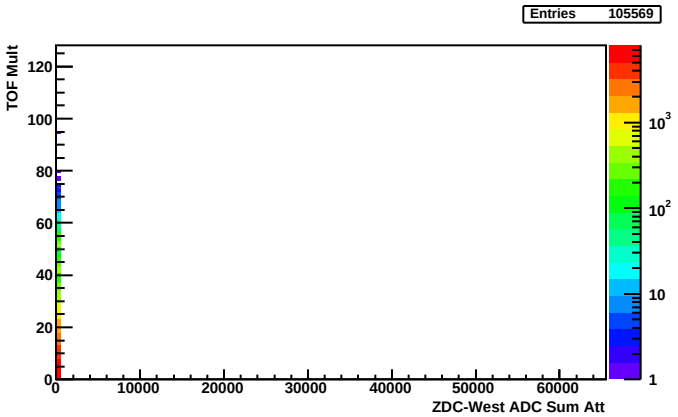

Entries 105569
TOF Mult
BBC-S-East ADC Sum

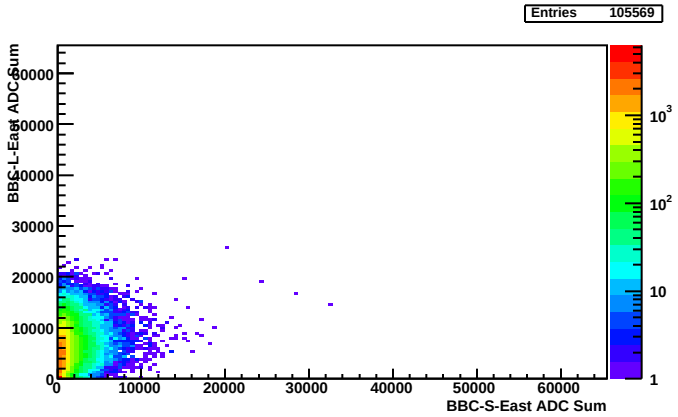

Entries 105569
TOF Mult
BBC-S-West ADC Sum

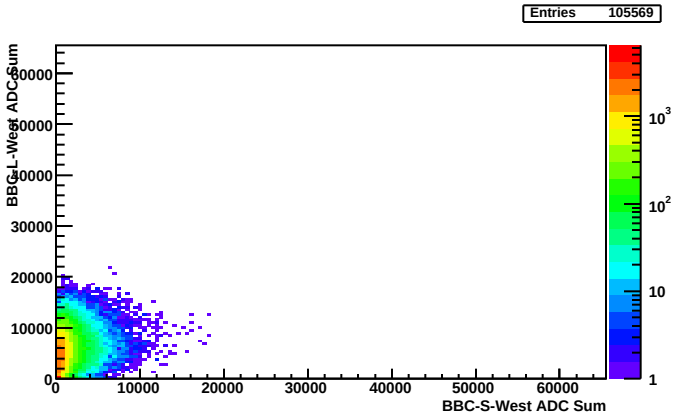

Entries 105569
TOF Mult
VPD-East ADC Sum

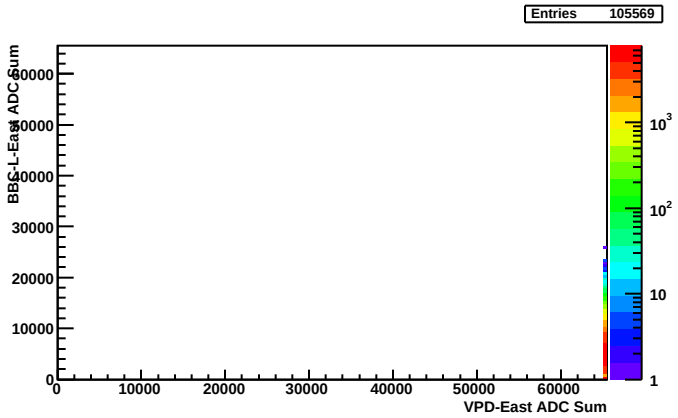

Entries 105569
TOF Mult
VPD-West ADC Sum

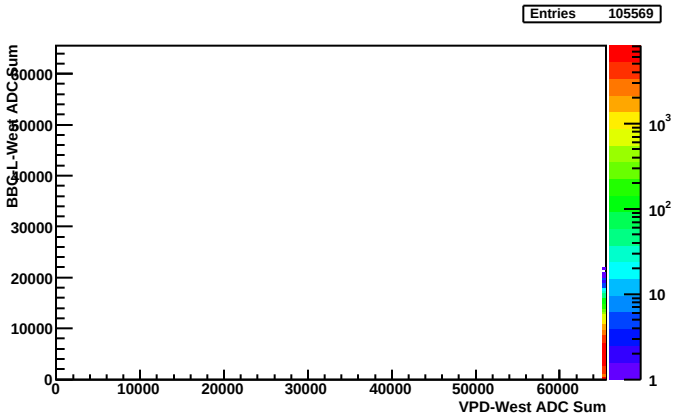

Entries 105569
TOF Mult
ZDC-East ADC Sum Att

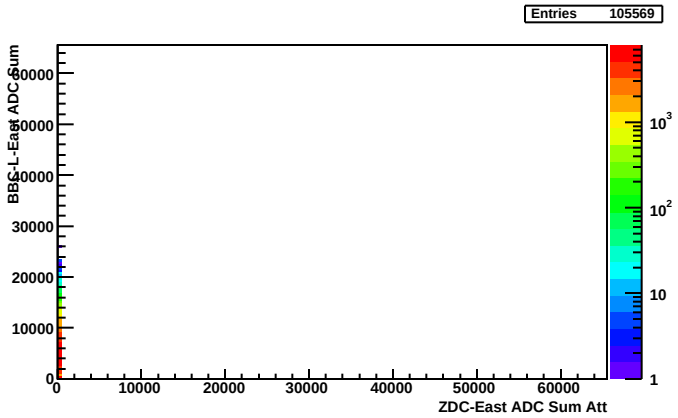

Entries 105569
TOF Mult
ZDC-West ADC Sum Att

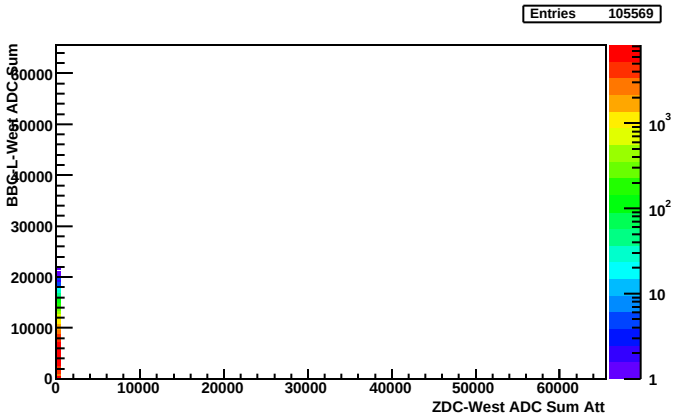

Entries 105569
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 105569
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 105569
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 105569
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 105569
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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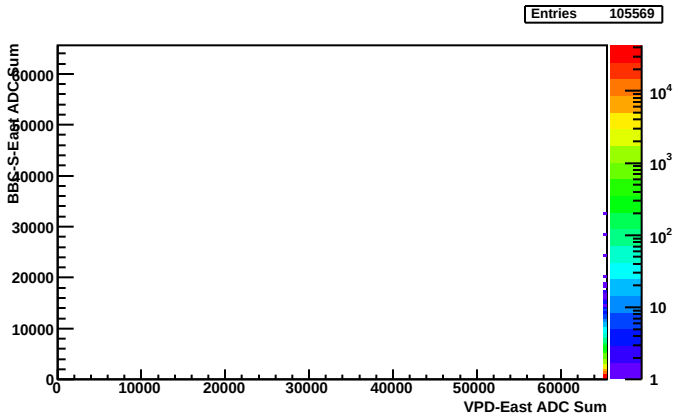
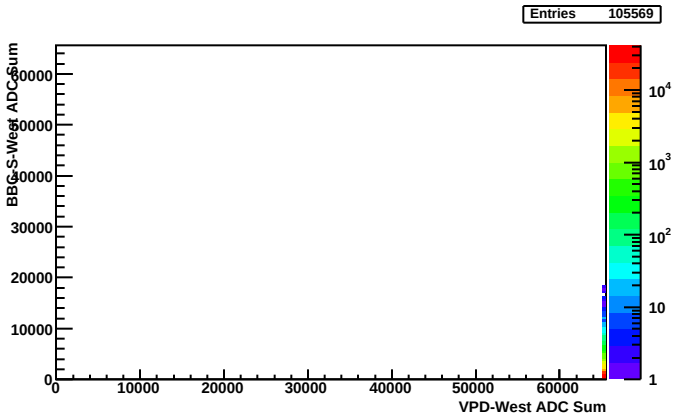
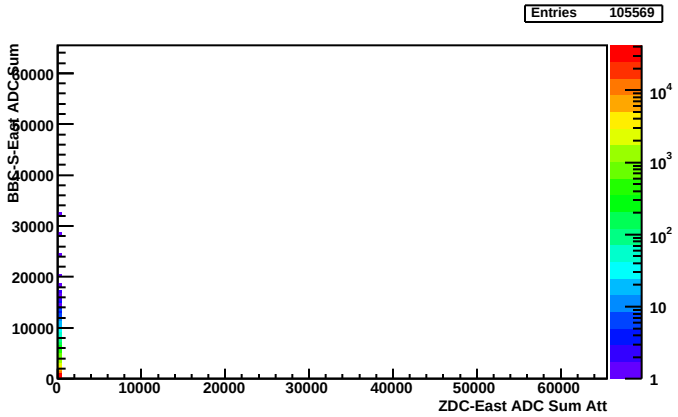
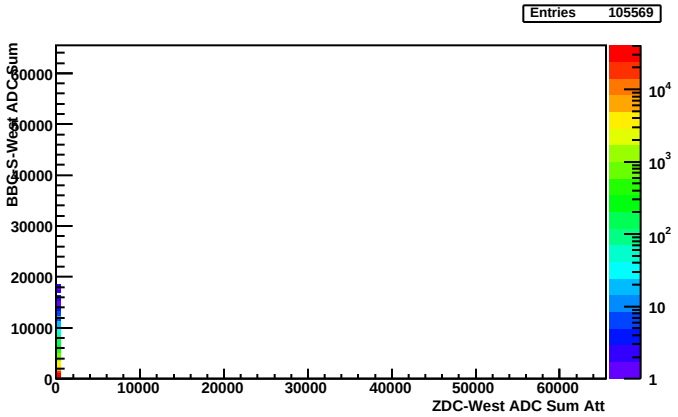
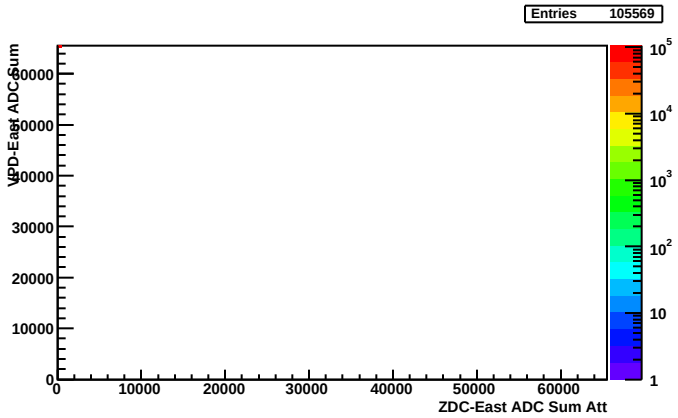
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

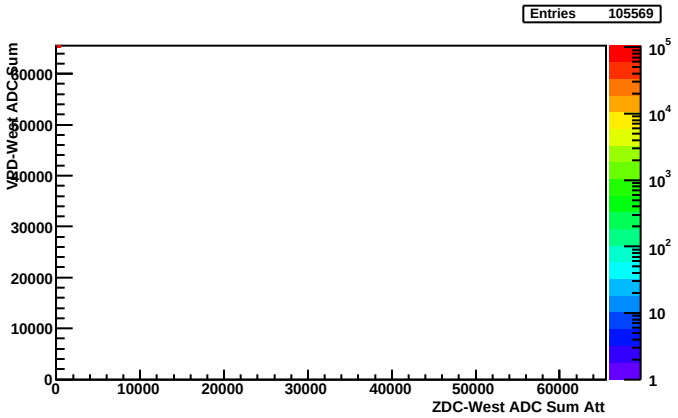

Entries 105569
BBC-S-East ADC Sum
VPD-East ADC Sum

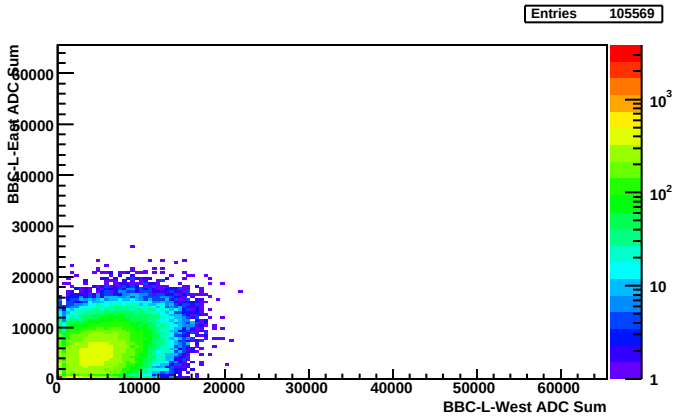

Entries 105569
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 105569
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 105569
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 105569
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 105569
VPD-West ADC Sum
ZDC-West ADC Sum Att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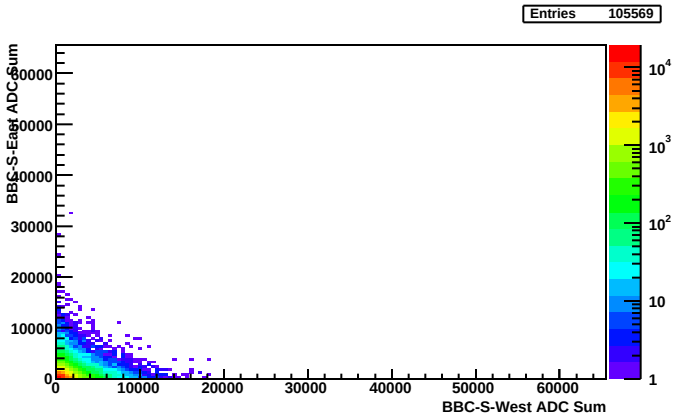
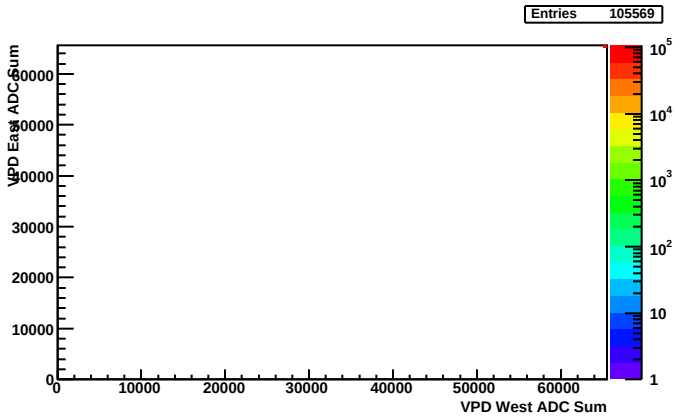
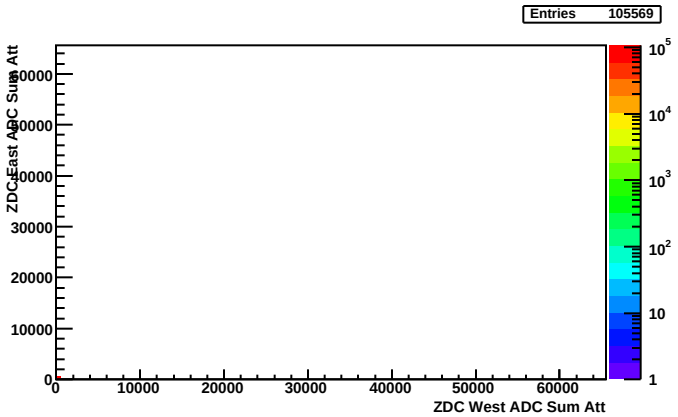
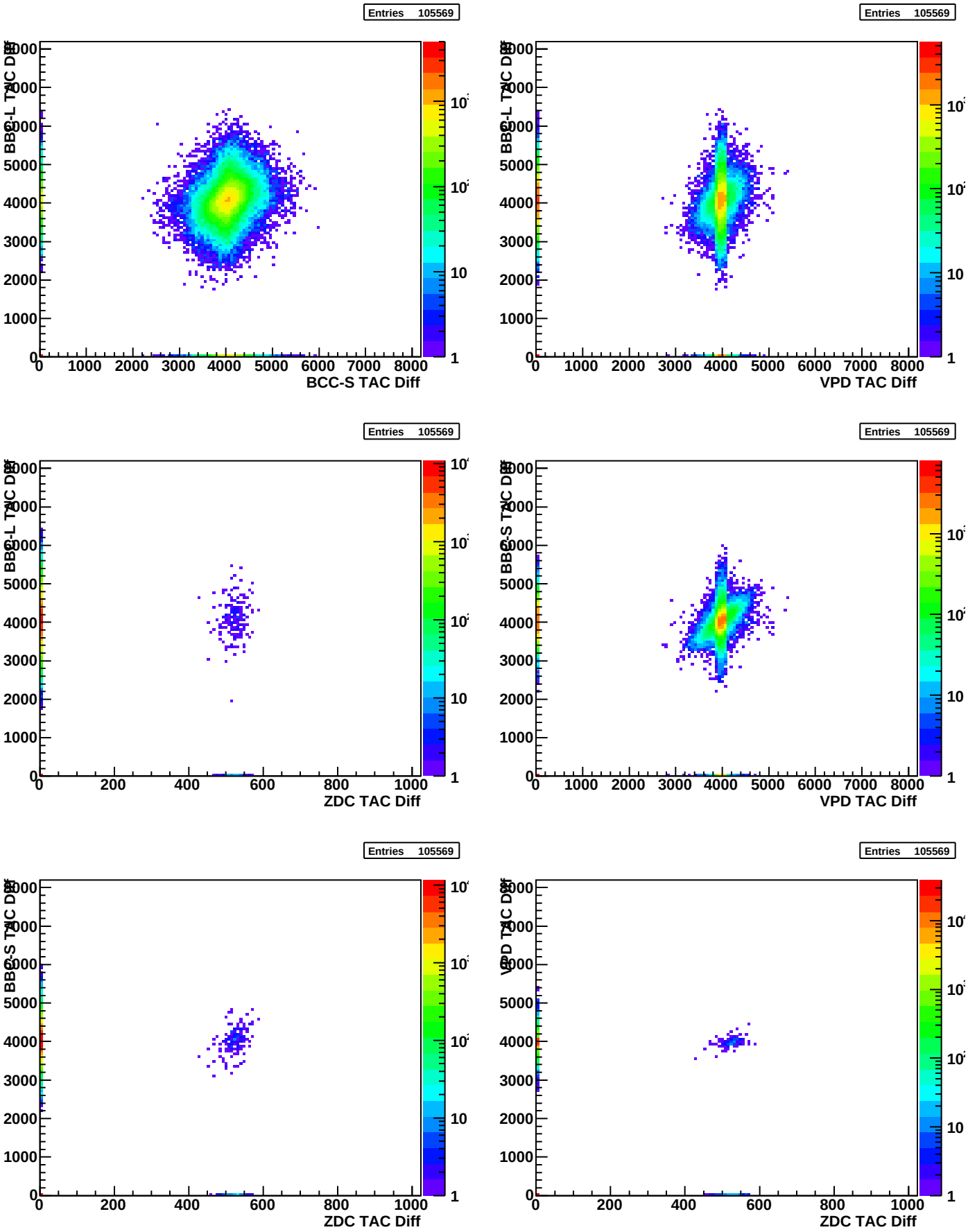
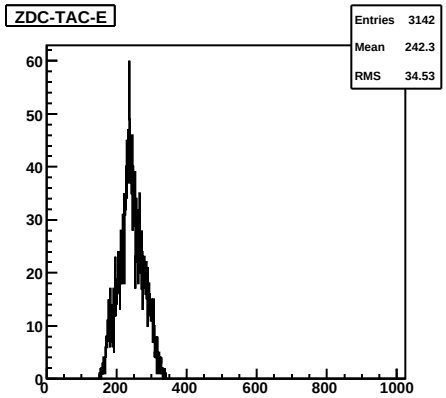
BBC-L-East ADC Sum
BBC-L-West ADC Sum

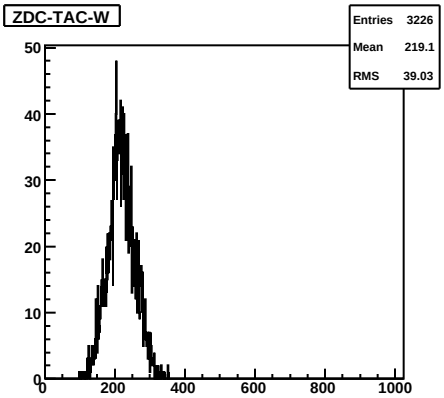

Entries 105569
BBC-S-East ADC Sum
BBC-S-West ADC Sum

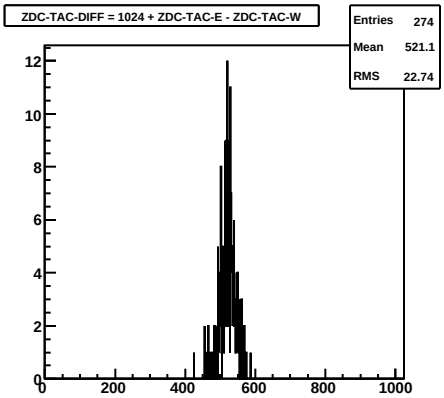

Entries 105569
VPD East ADC Sum
VPD West ADC Sum

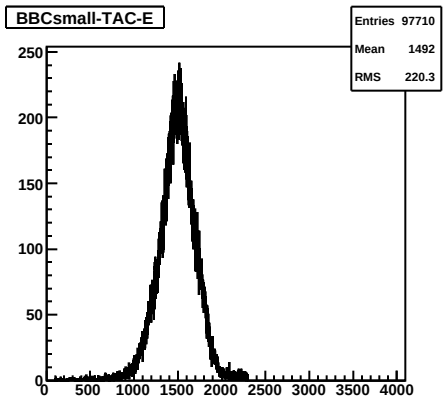

Entries 105569
ZDC East ADC Sum Att
ZDC West ADC Sum Att

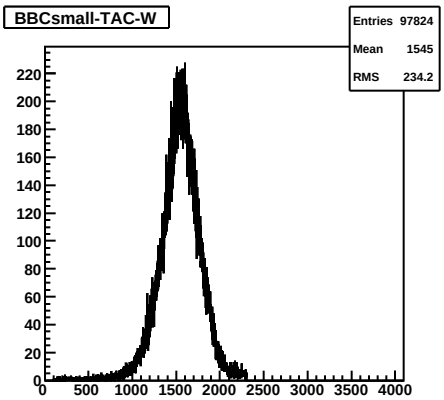

Entries 105569
BBC-L TAC Diff
BCC-S TAC Diff
Entries 105569
BBC-L TAC Diff
VPD TAC Diff
Entries 105569
BBC-L TAC Diff
ZDC TAC Diff
Entries 105569
BBC-S TAC Diff
VPD TAC Diff
Entries 105569
BBC-S TAC Diff
ZDC TAC Diff
Entries 105569
VPD TAC Diff
ZDC TAC Diff

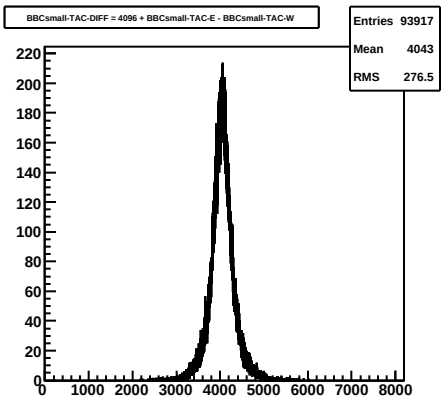

ZDC-TAC-E
Entries 3142
Mean 242.3
RMS 34.53

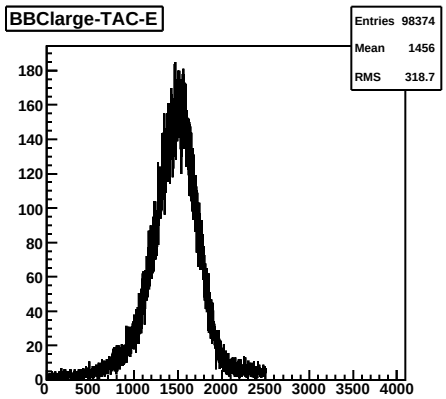

ZDC-TAC-W
Entries 3226
Mean 219.1
RMS 39.03

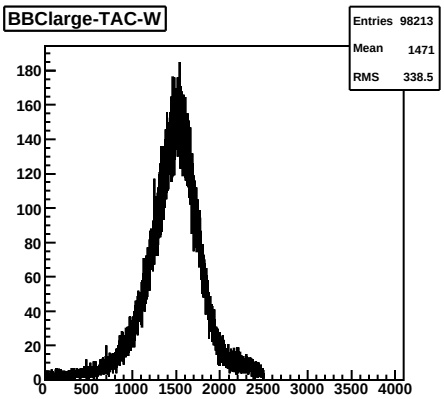

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 274
Mean 521.1
RMS 22.74

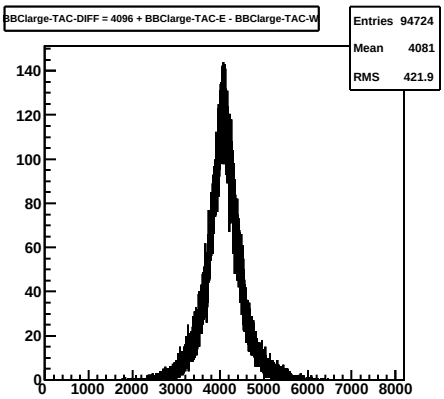

BBCsmall-TAC-E
Entries 97710
Mean 1492
RMS 220.3

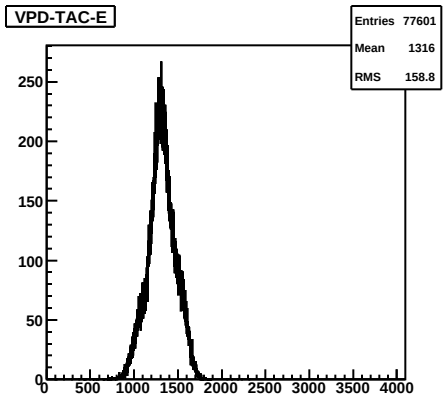

BBCsmall-TAC-W
Entries 97824
Mean 1545
RMS 234.2

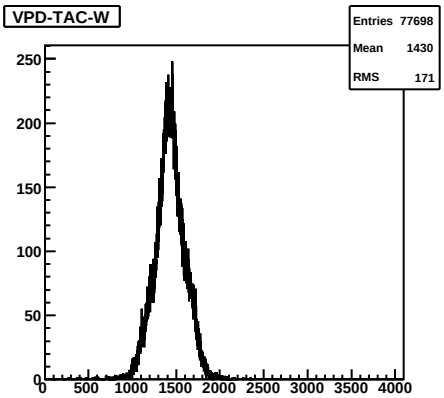

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 93917
Mean 4043
RMS 276.5

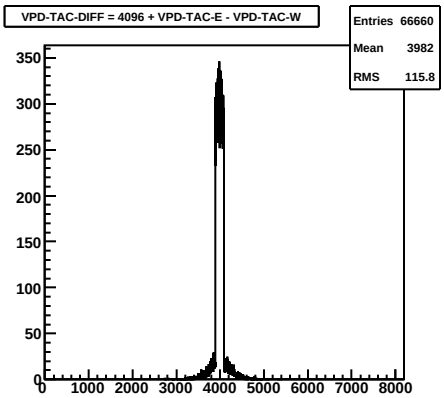

BBClarge-TAC-E
Entries 98374
Mean 1456
RMS 318.7

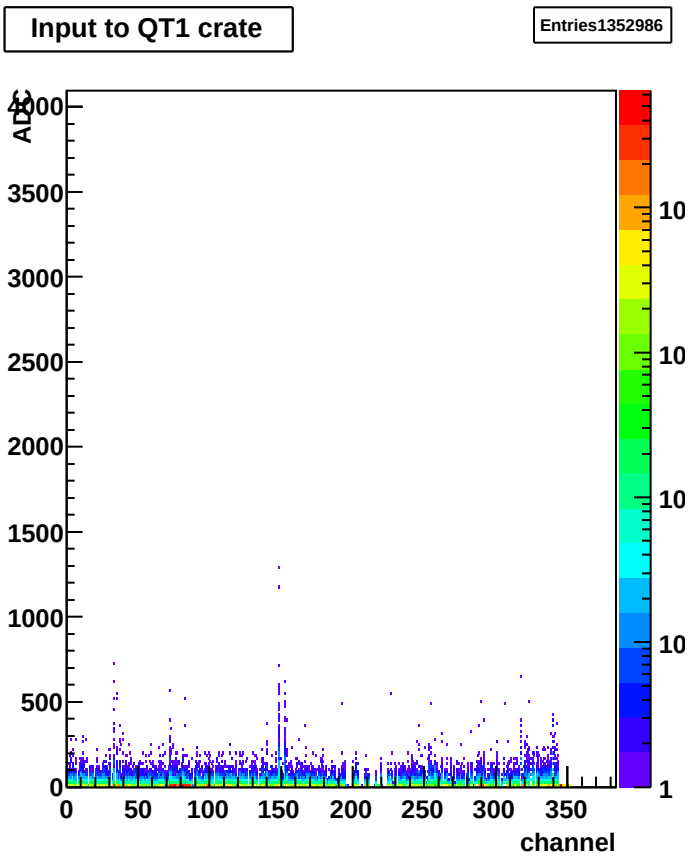

BBClarge-TAC-W
Entries 98213
Mean 1471
RMS 338.5

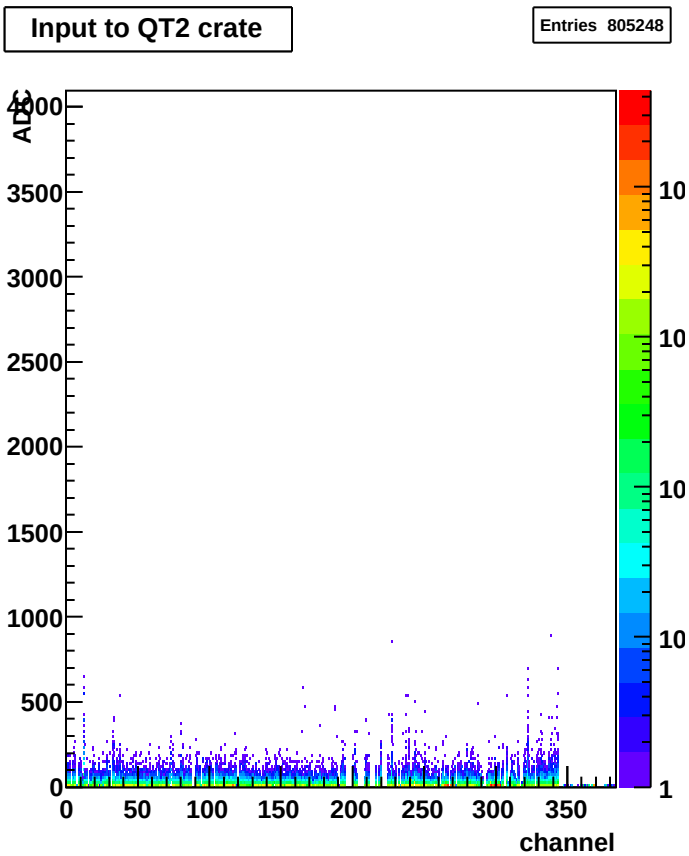

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 94724
Mean 4081
RMS 421.9

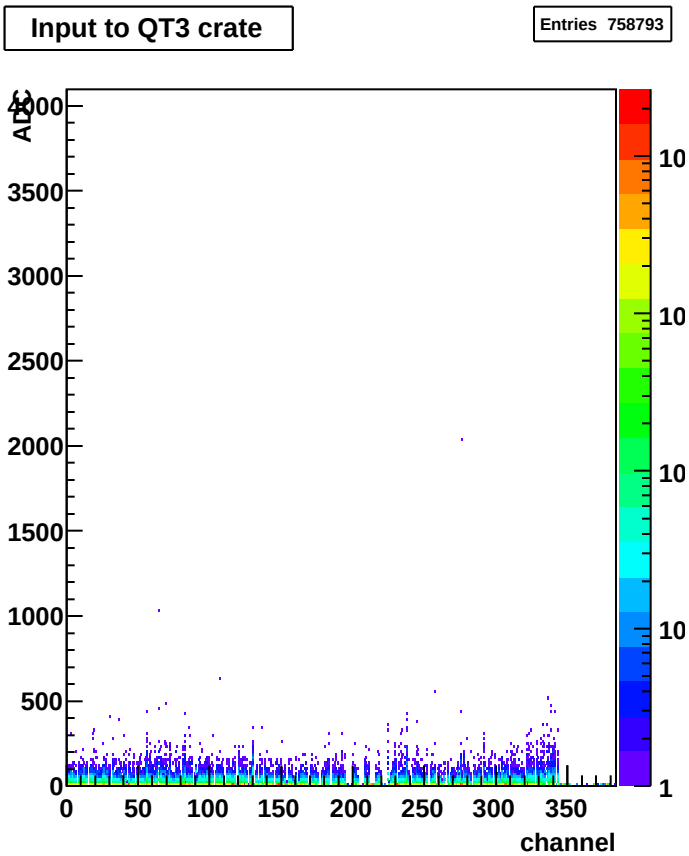

VPD-TAC-E
Entries 77601
Mean 1316
RMS 158.8

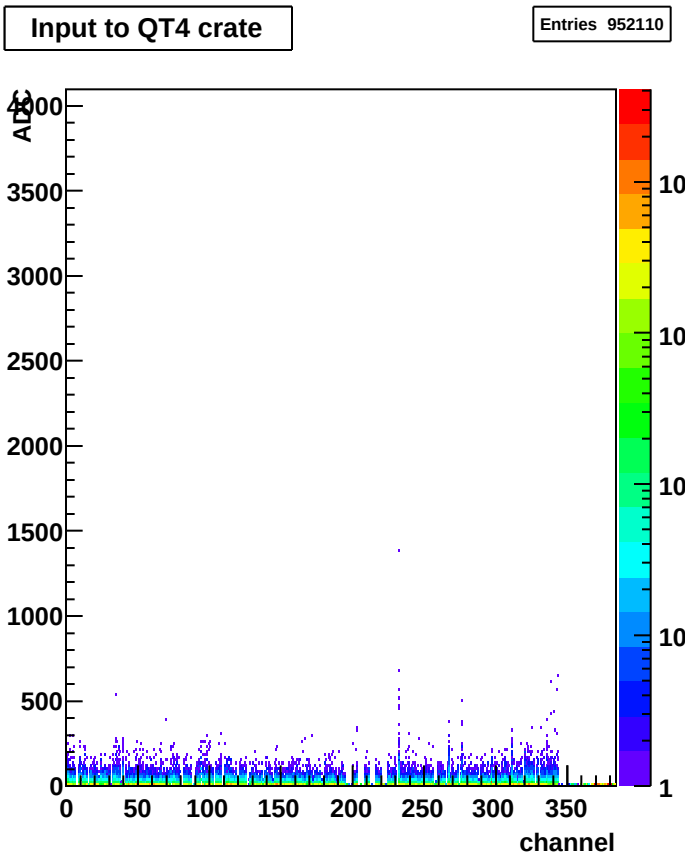

VPD-TAC-W
Entries 77698
Mean 1430
RMS 171

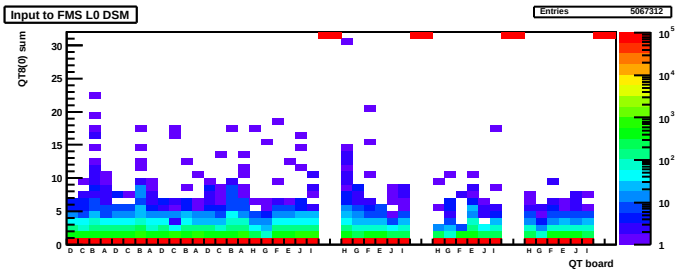

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 66660
Mean 3982
RMS 115.8

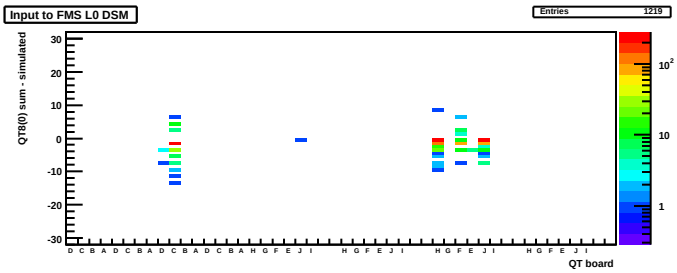

Input to QT1 crate
Entries1352986
ADC
channel

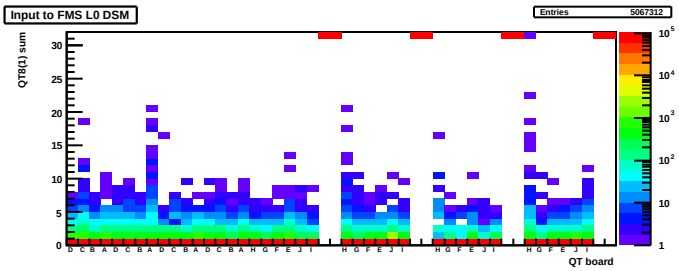

Input to QT2 crate
Entries 805248
ADC
channel

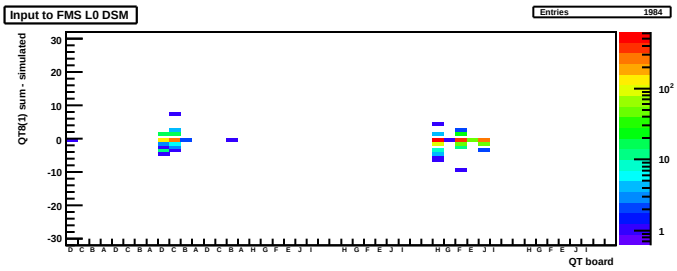

Input to QT3 crate
Entries 758793
ADC
channel

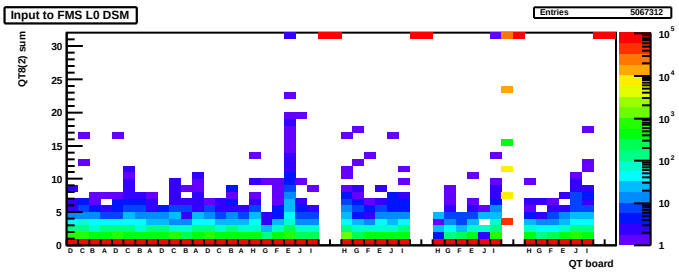

Input to QT4 crate
Entries 952110
ADC
channel

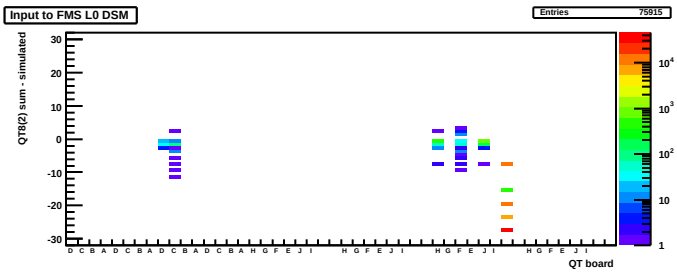

Input to FMS L0 DSM
Entries 5067312
QT8(0) sum
QT board

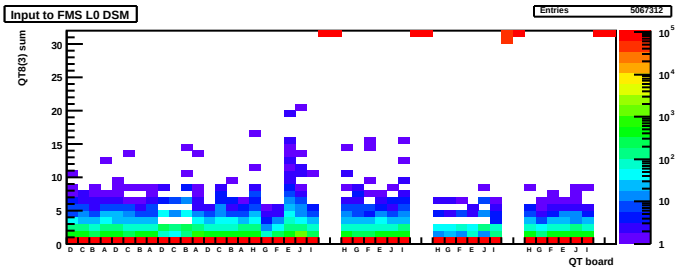

Input to FMS L0 DSM
Entries 1219
QT8(0) sum - simulated
QT board

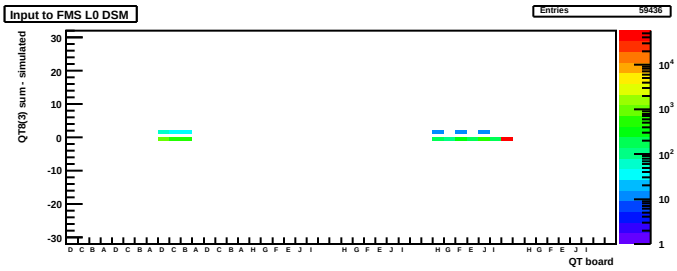

Input to FMS L0 DSM
Entries 5067312
QT8(1) sum
QT board

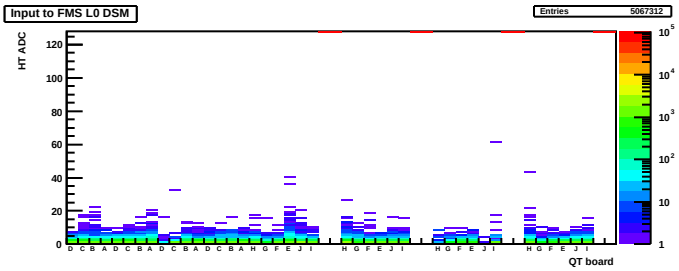

Input to FMS L0 DSM
Entries 1984
QT8(1) sum - simulated
QT board

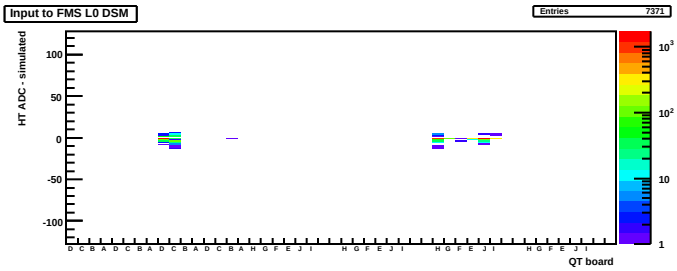

Input to FMS L0 DSM
Entries 5067312
QT8(2) sum
QT board

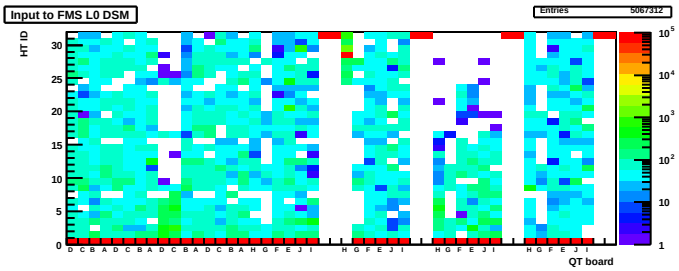

Input to FMS L0 DSM
Entries 75915
QT8(2) sum - simulated
QT board

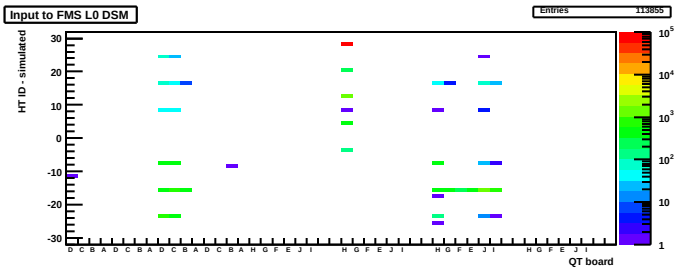

Input to FMS L0 DSM
Entries 5067312
QT8(3) sum
QT board

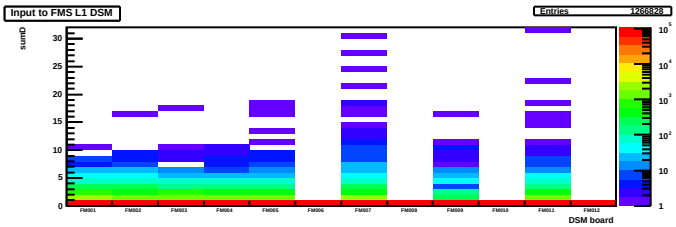

Input to FMS L0 DSM
Entries 59436
QT8(3) sum - simulated
QT board

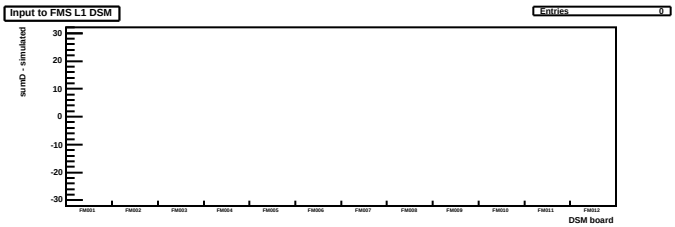

Input to FMS L0 DSM
Entries 5067312
HT ADC
QT board

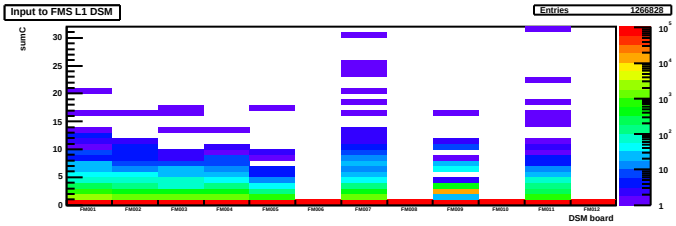

Input to FMS L0 DSM
Entries 7371
HT ADC - simulated
QT board

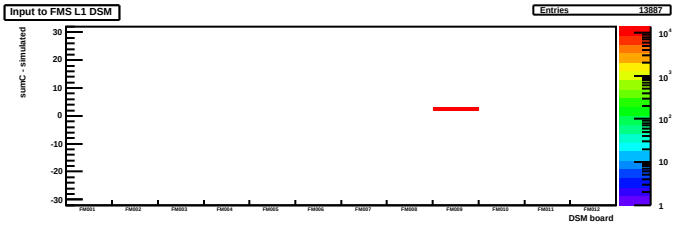

Input to FMS L0 DSM
Entries 5067312
HT ID
QT board

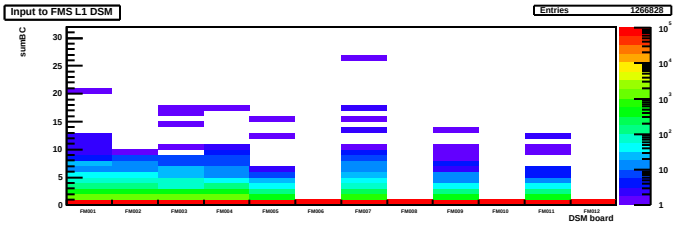

Input to FMS L0 DSM
Entries 113855
HT ID - simulated
QT board

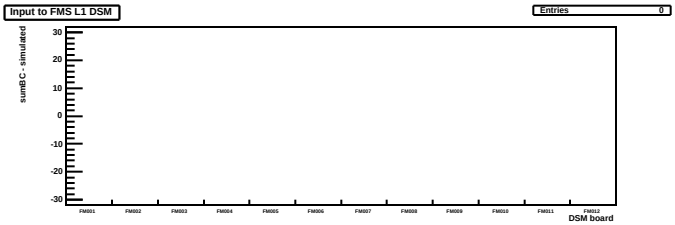

Input to FMS L1 DSM
Entries 1268828
sumD
DSM board

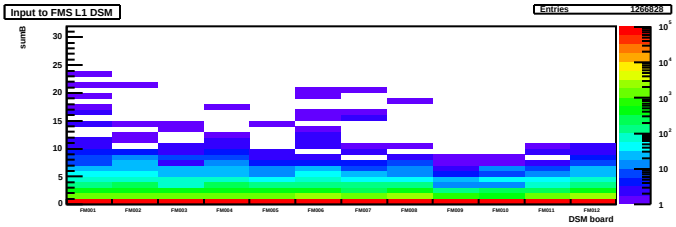

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

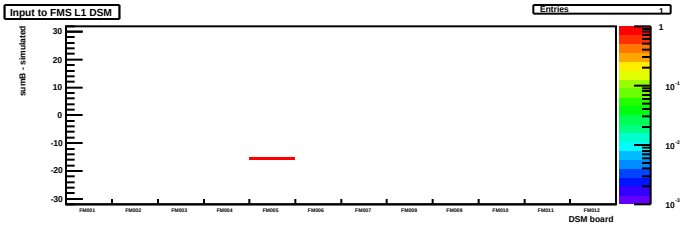

Input to FMS L1 DSM
Entries 1268828
sumC
DSM board

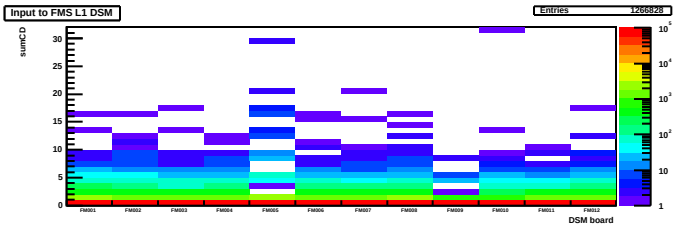

Input to FMS L1 DSM
Entries 13887
sumC - simulated
DSM board

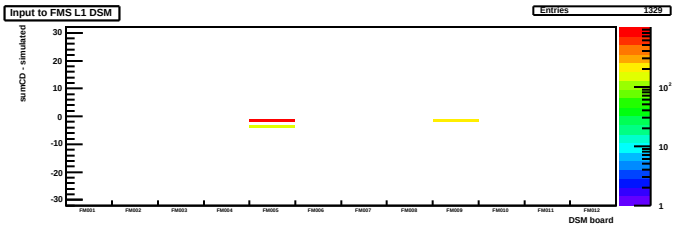

Input to FMS L1 DSM
Entries 1268828
sumBC
DSM board

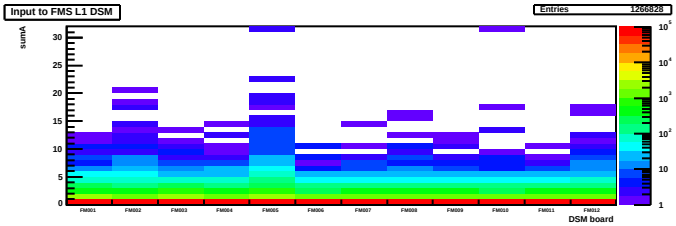

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

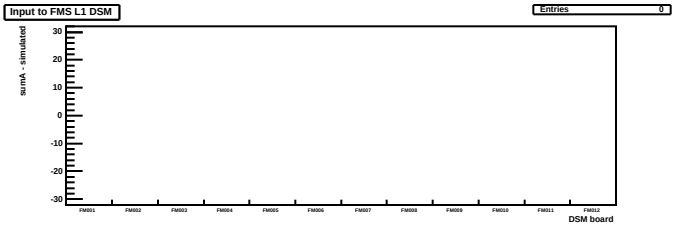

Input to FMS L1 DSM
Entries 1268828
sumB
DSM board

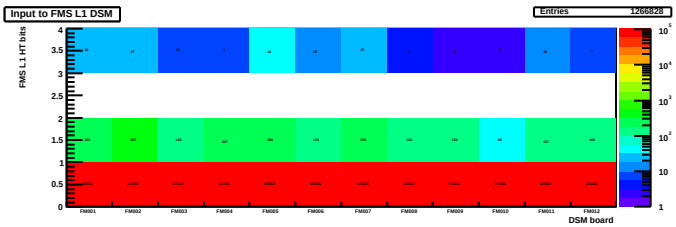

Input to FMS L1 DSM
Entries 1
sumB - simulated
DSM board

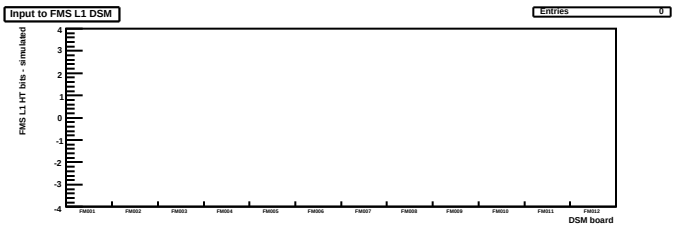

Input to FMS L1 DSM
Entries 1268828
sumCD
DSM board

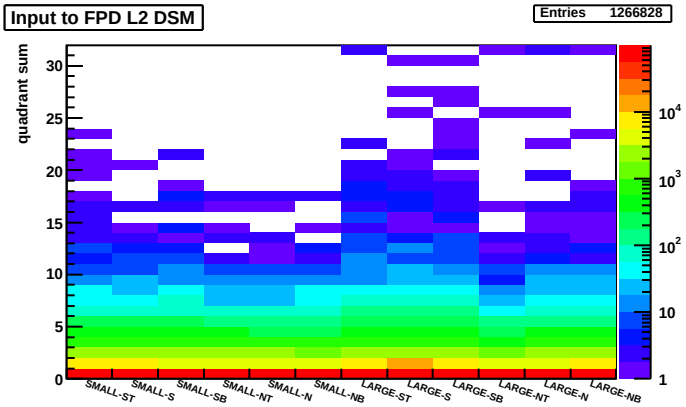

Input to FMS L1 DSM
Entries 1329
sumCD - simulated
DSM board

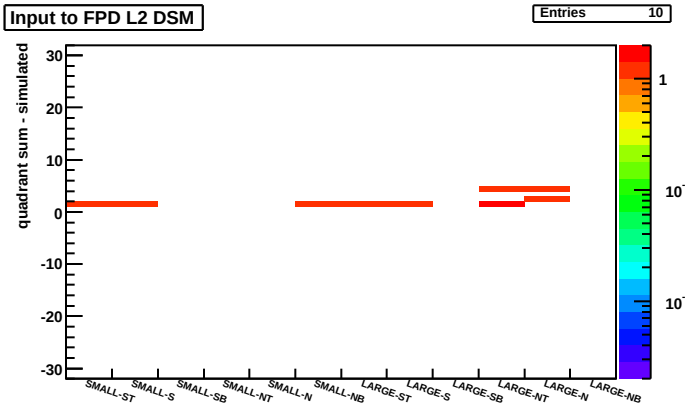

Input to FMS L1 DSM
Entries 1268828
sumA
DSM board

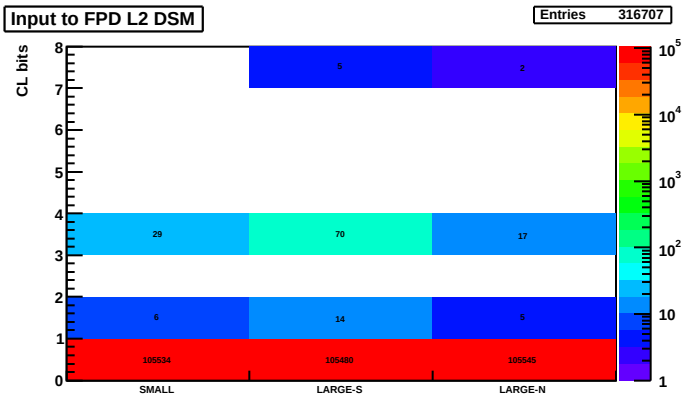

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

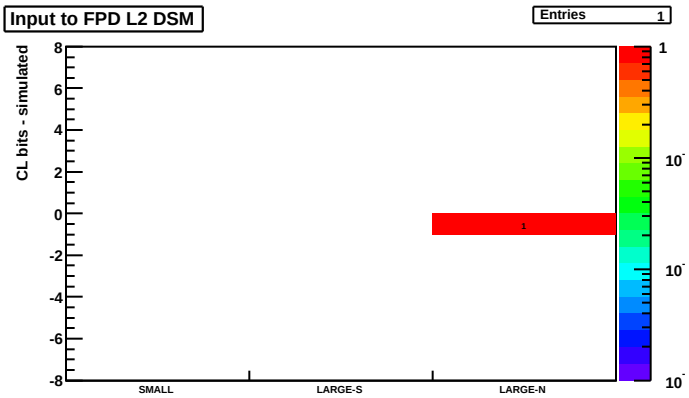

Input to FMS L1 DSM
Entries 1268828
FMS L1 HT bits
DSM board

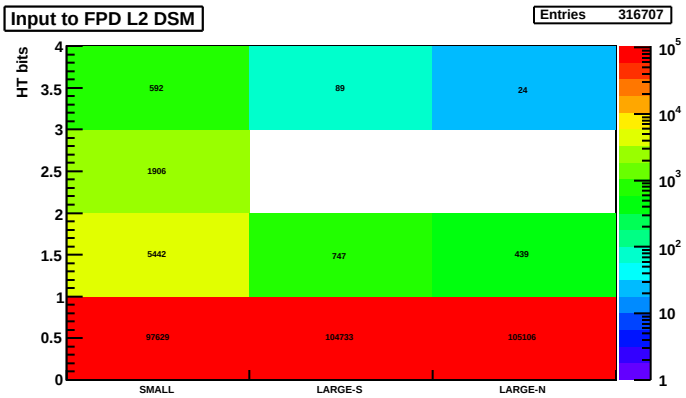

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

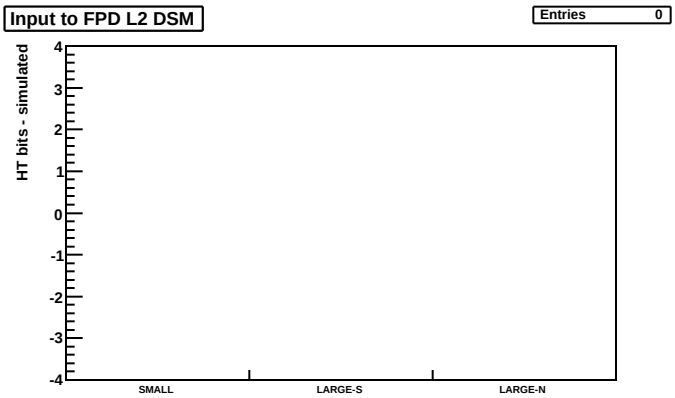

Input to FPD L2 DSM
Entries 1266828
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

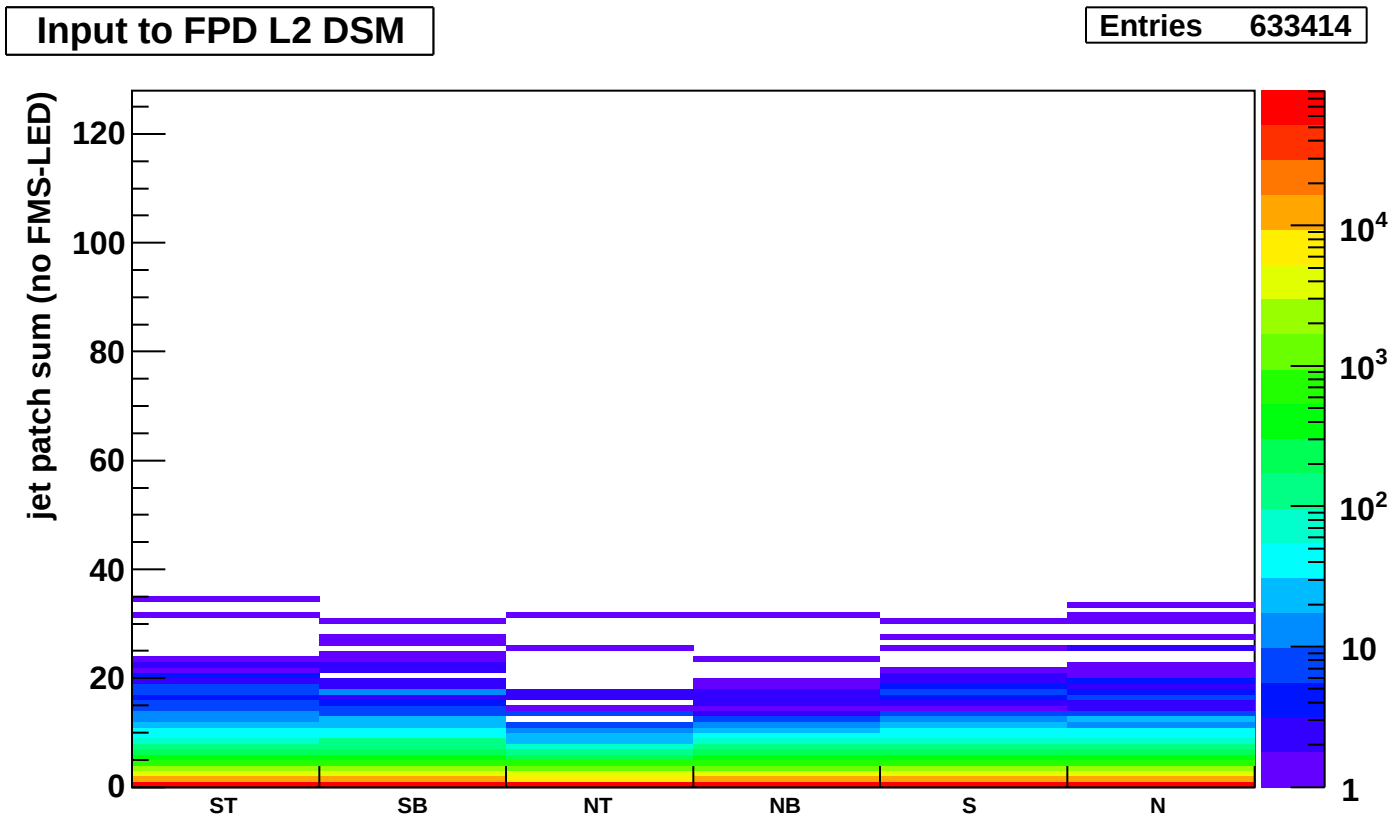

Input to FPD L2 DSM
Entries 10
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

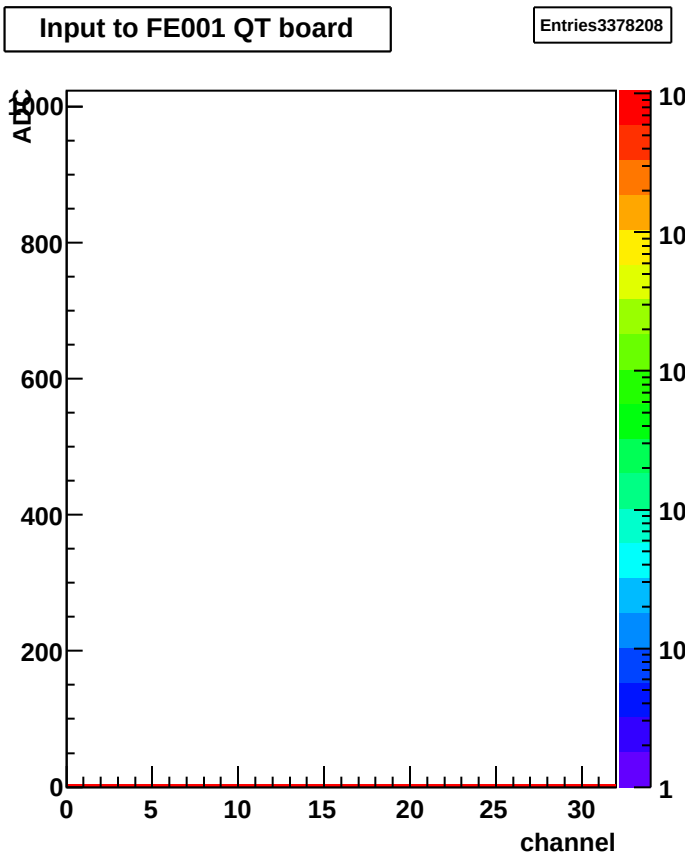

Input to FPD L2 DSM
Entries 316707
CL bits
5
2
29
70
17
6
14
5
105534
105480
105545
SMALL
LARGE-S
LARGE-N

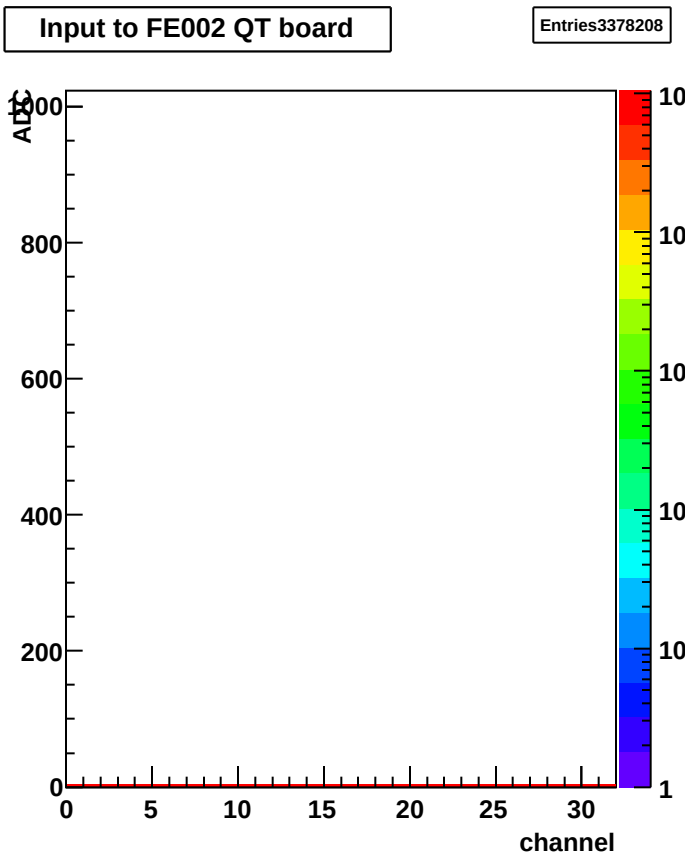

Input to FPD L2 DSM
Entries 1
CL bits - simulated
1
SMALL
LARGE-S
LARGE-N

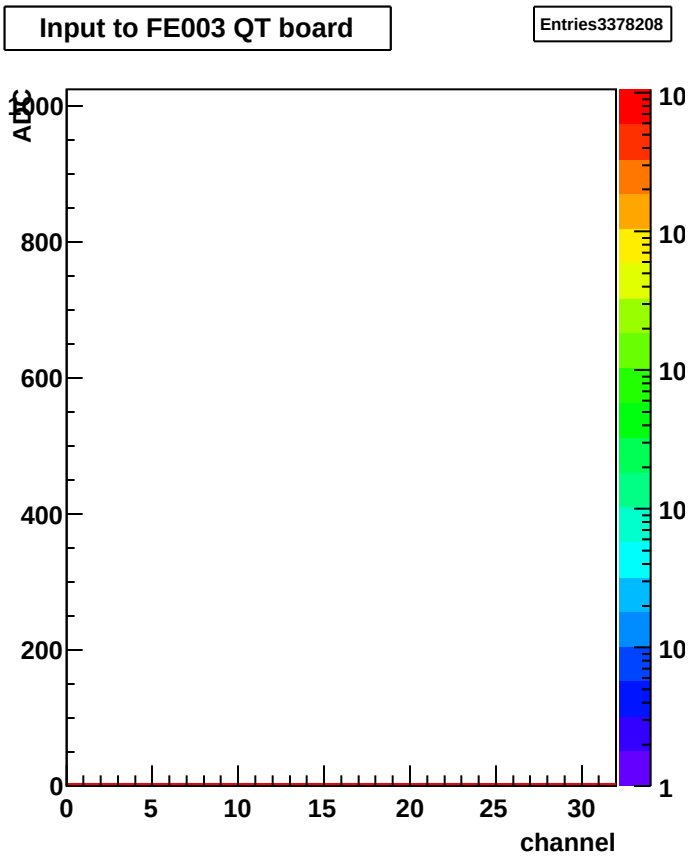

Input to FPD L2 DSM
Entries 316707
HT bits
592
89
24
1906
5442
747
439
97629
104733
105106
SMALL
LARGE-S
LARGE-N

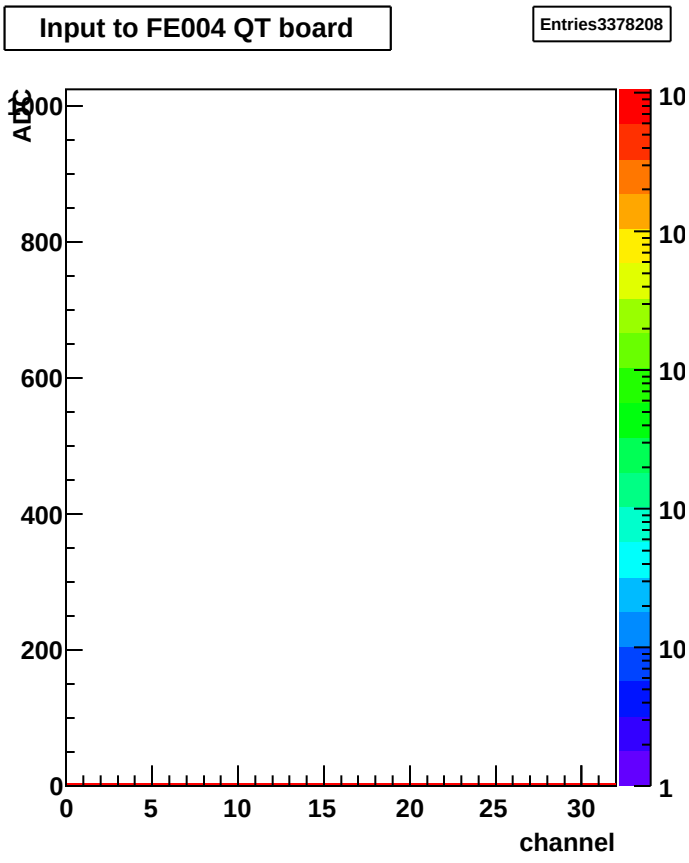

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

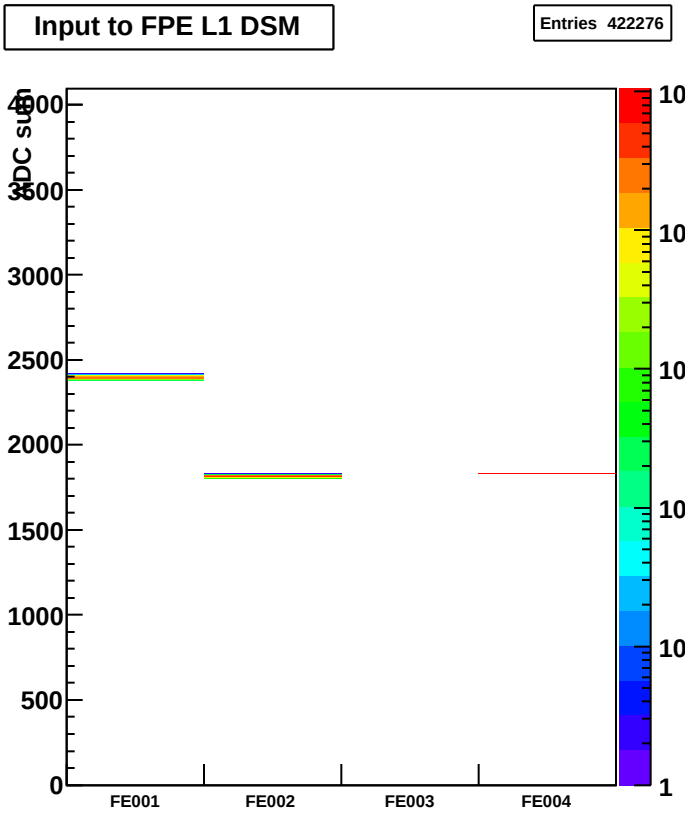

Input to FPD L2 DSM
Entries 633414
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

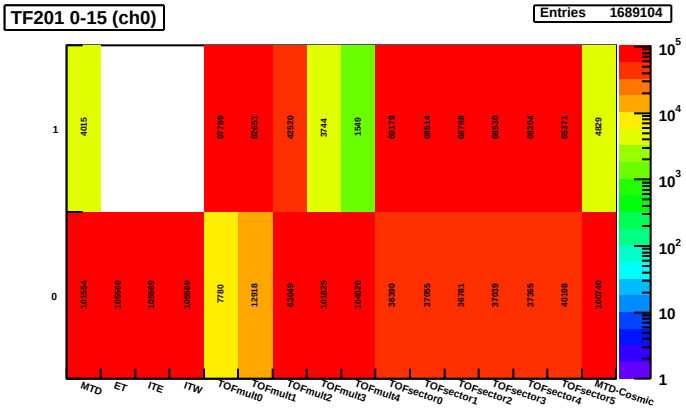

Input to FE001 QT board
Entries3378208
ADC
channel

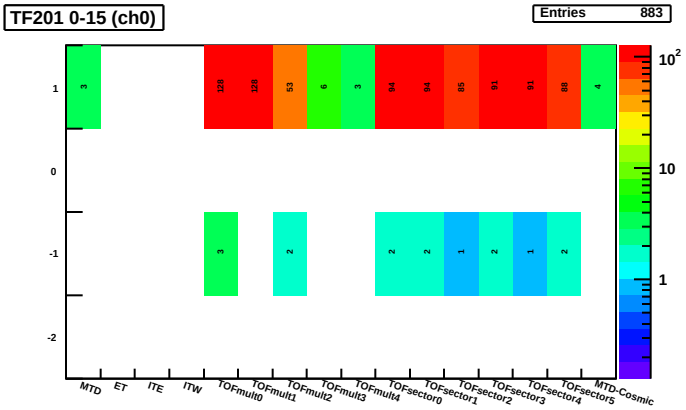

Input to FE002 QT board
Entries3378208
ADC
channel

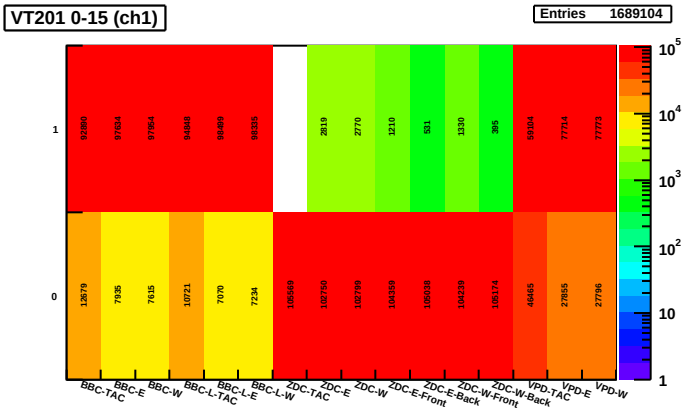

Input to FE003 QT board
Entries3378208
ADC
channel

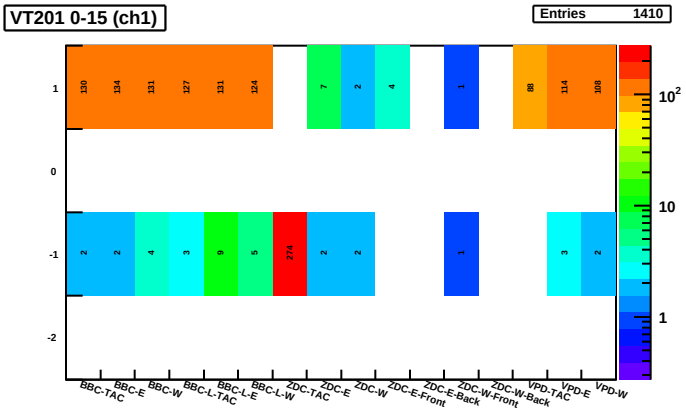

Input to FE004 QT board
Entries3378208
ADC
channel

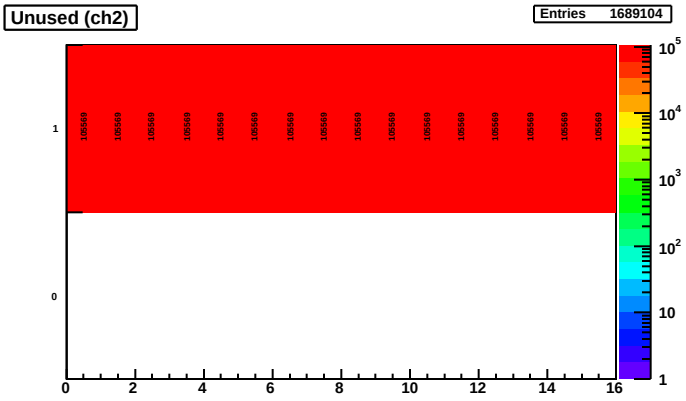

Input to FPE L1 DSM
Entries 422276
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

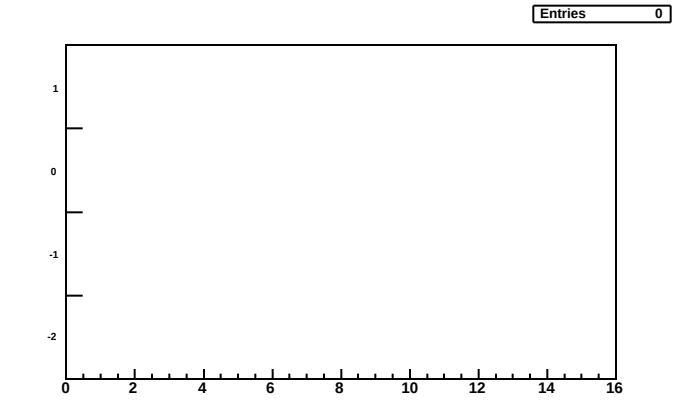

TF201 0-15 (ch0)
Entries 1689104
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 883
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 1689104
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 1410
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 1689104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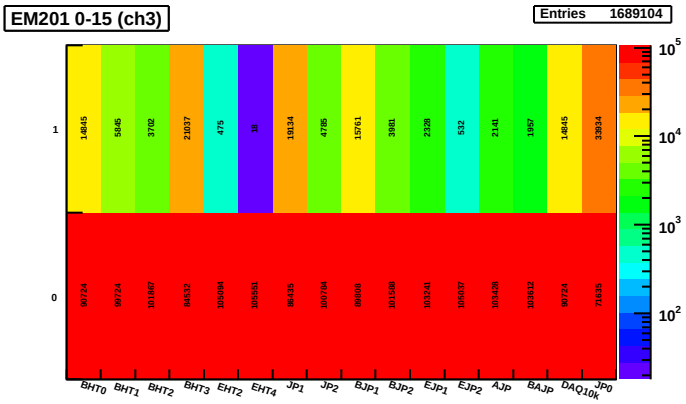
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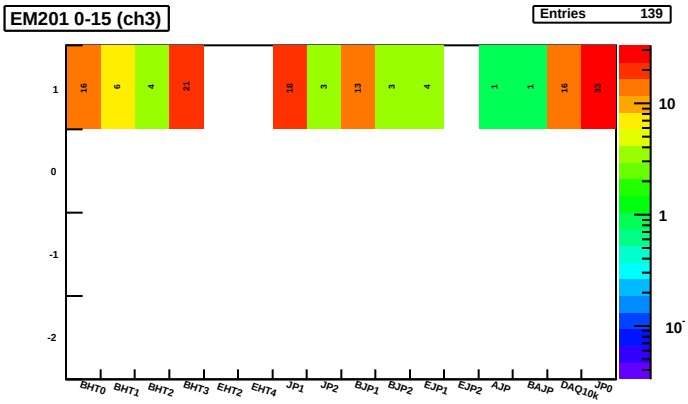
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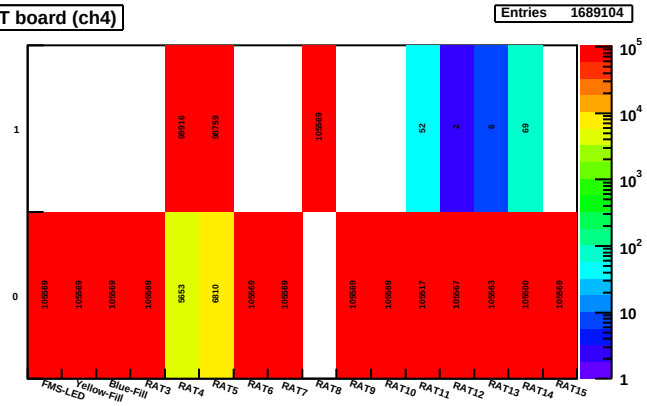
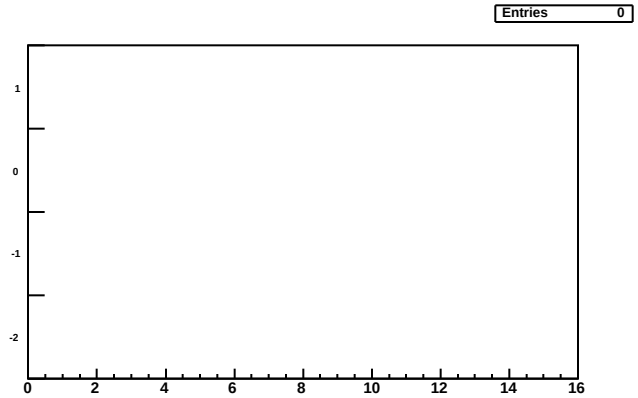
RAT board (ch4)





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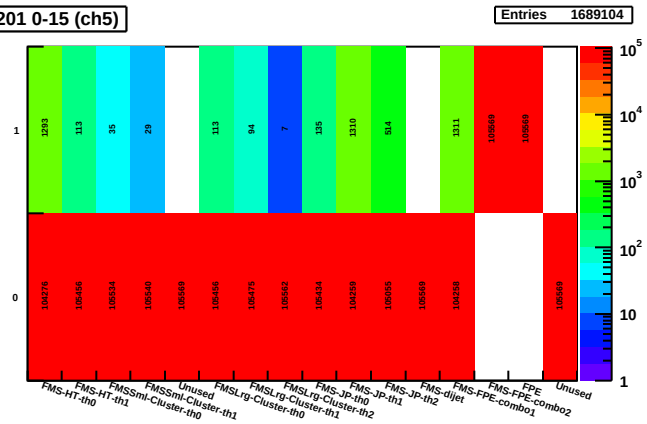

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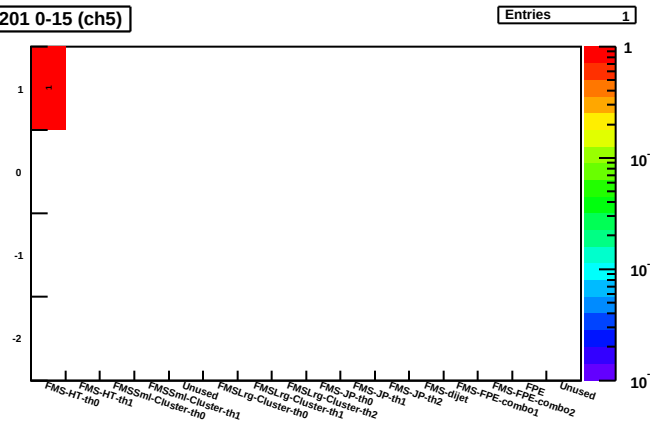

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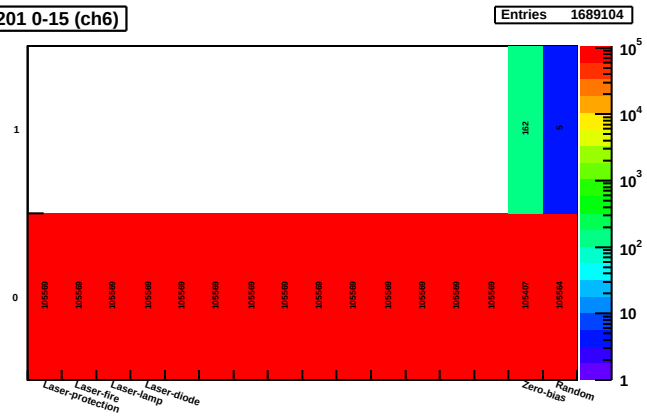

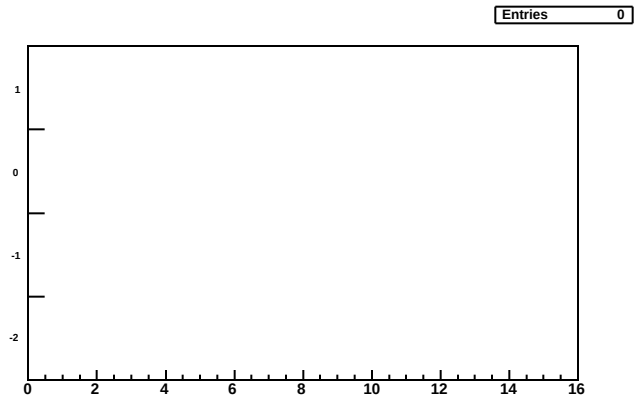
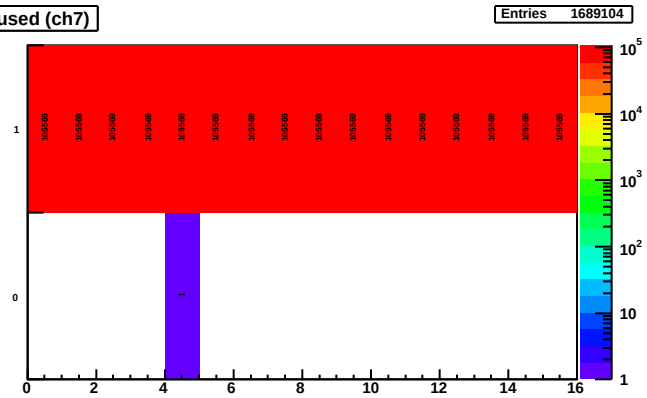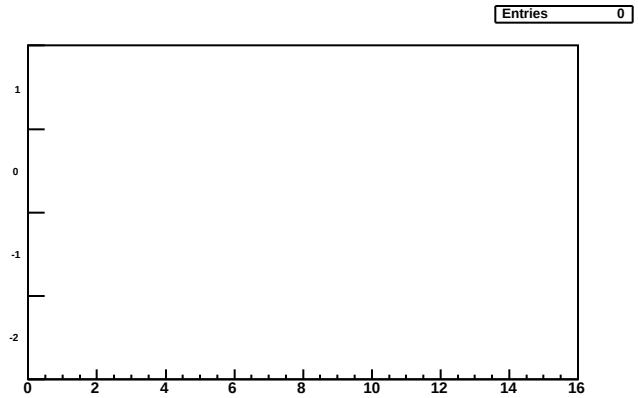
Unused (ch7)