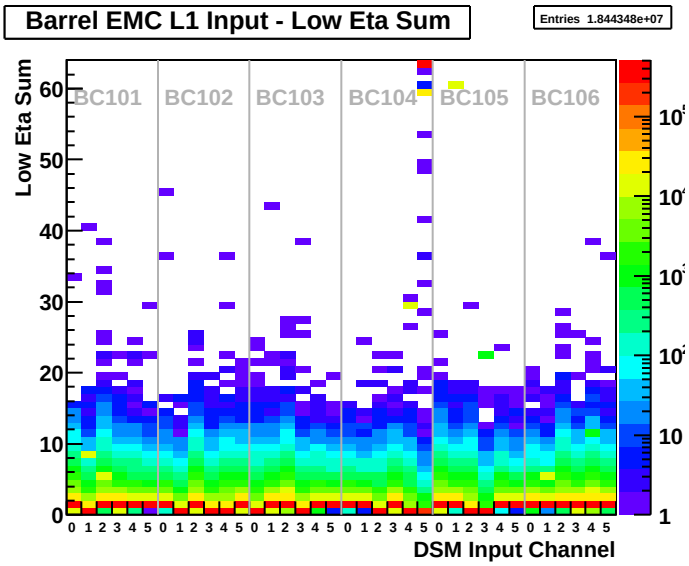
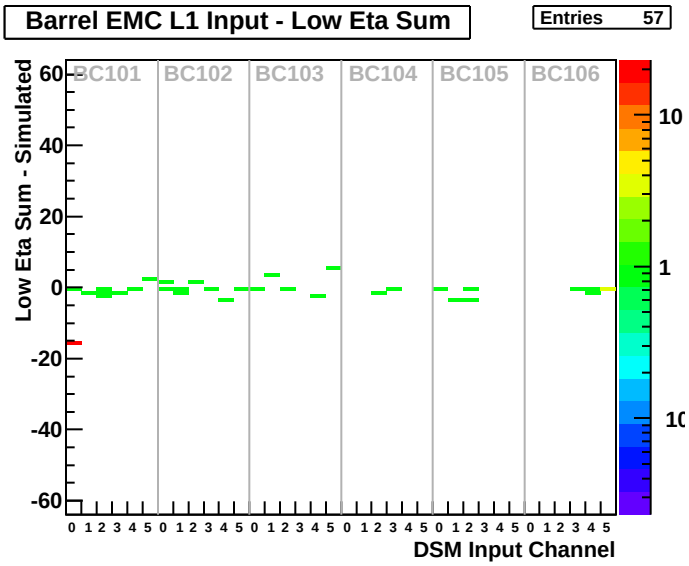
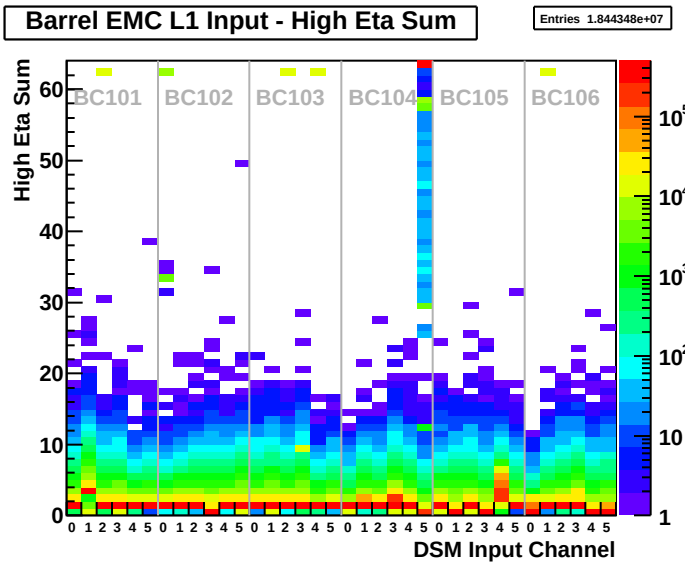
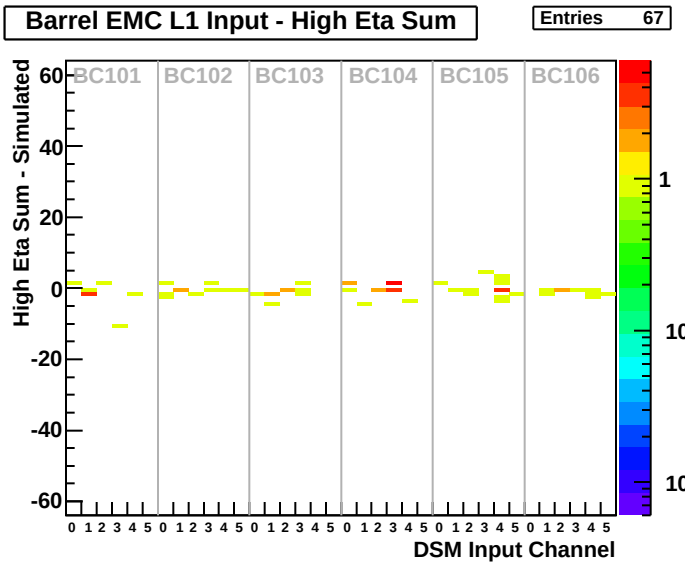
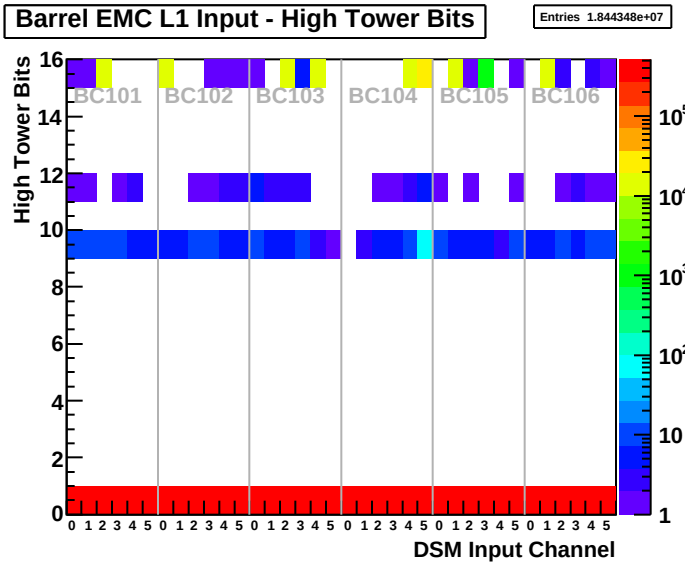
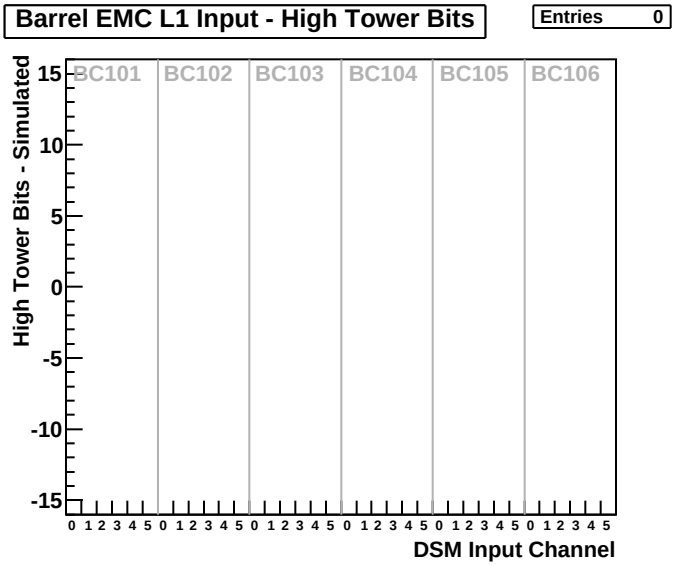

Barrel EMC L1 Input - Low Eta Sum
Entries 1.844348e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

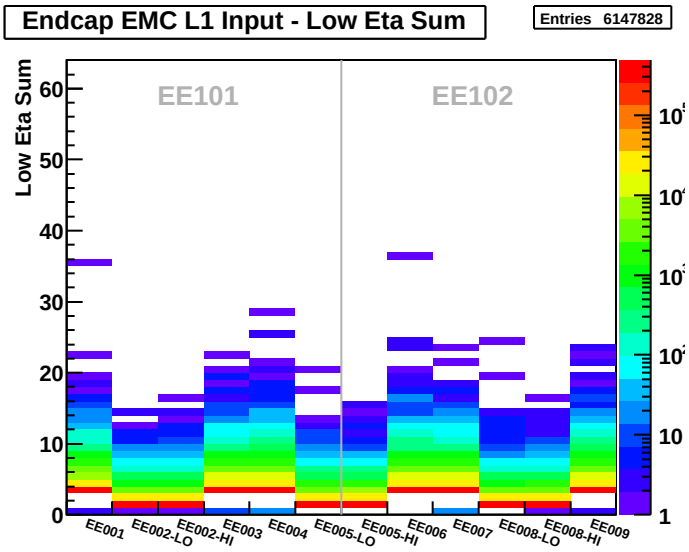

Barrel EMC L1 Input - Low Eta Sum
Entries 57
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

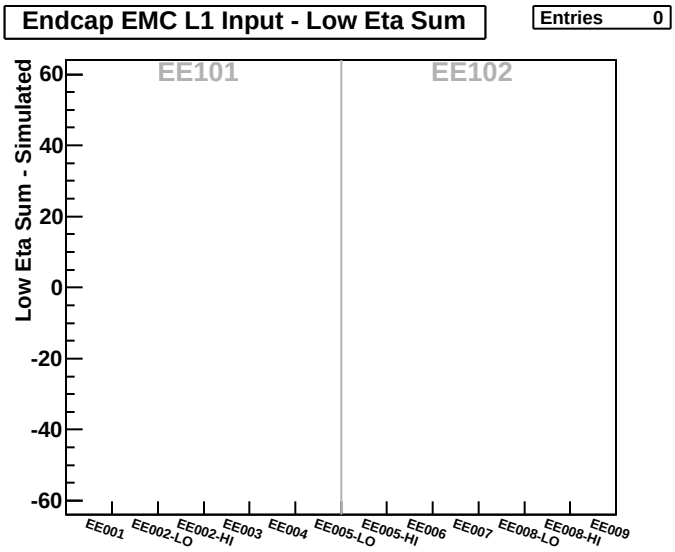

Barrel EMC L1 Input - High Eta Sum
Entries 1.844348e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

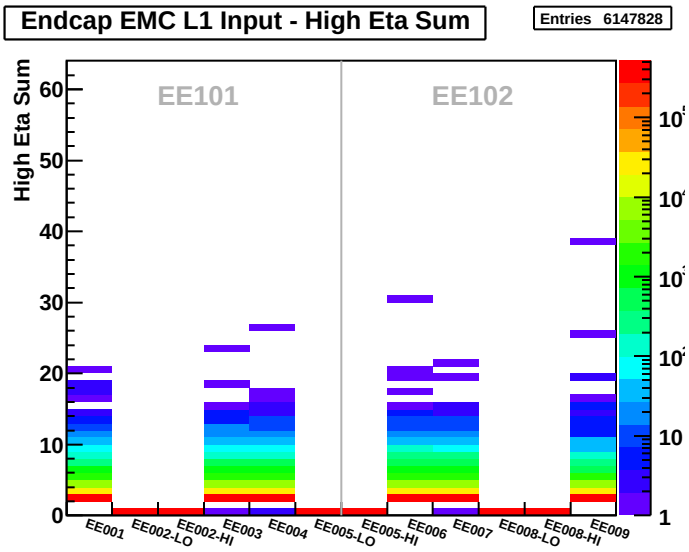

Barrel EMC L1 Input - High Eta Sum
Entries 67
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

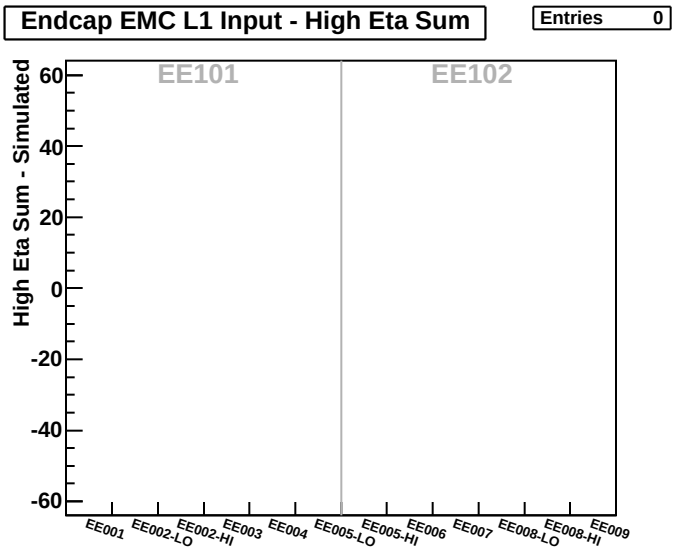

Barrel EMC L1 Input - High Tower Bits
Entries 1.844348e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

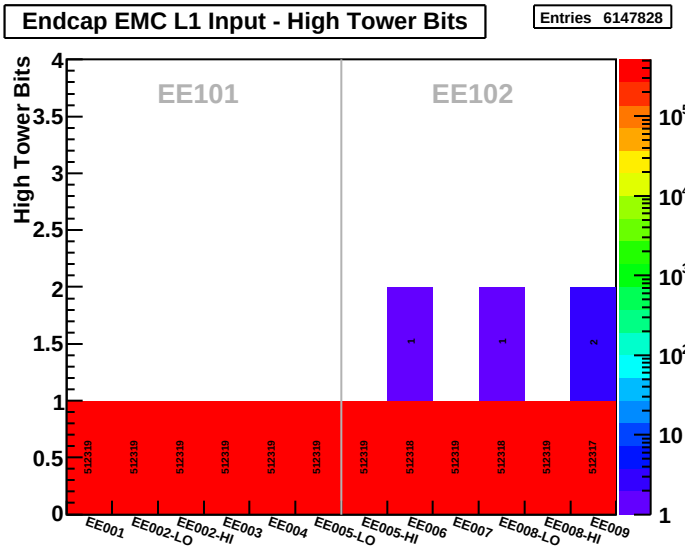

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

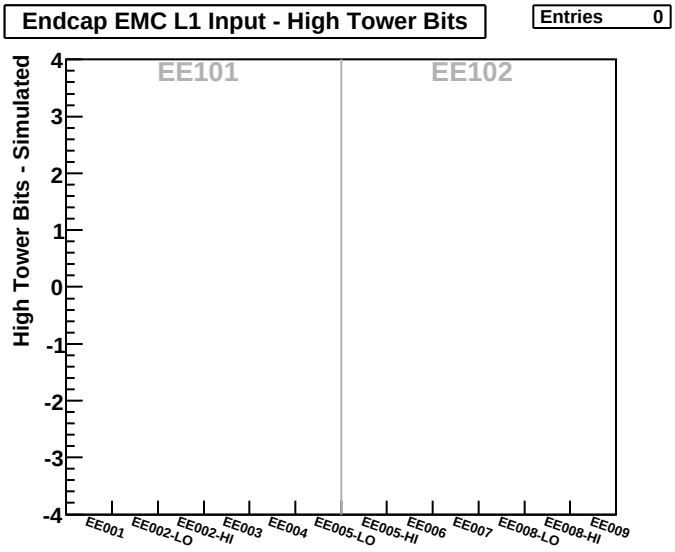

Endcap EMC L1 Input - Low Eta Sum
Entries 6147828
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

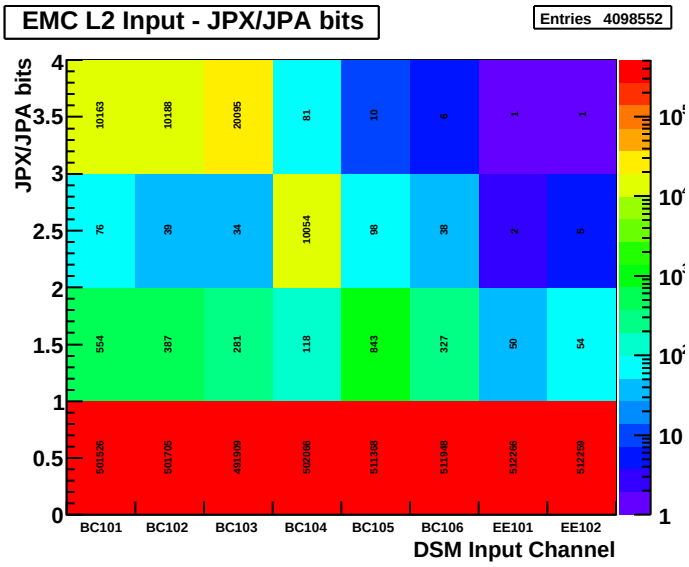

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

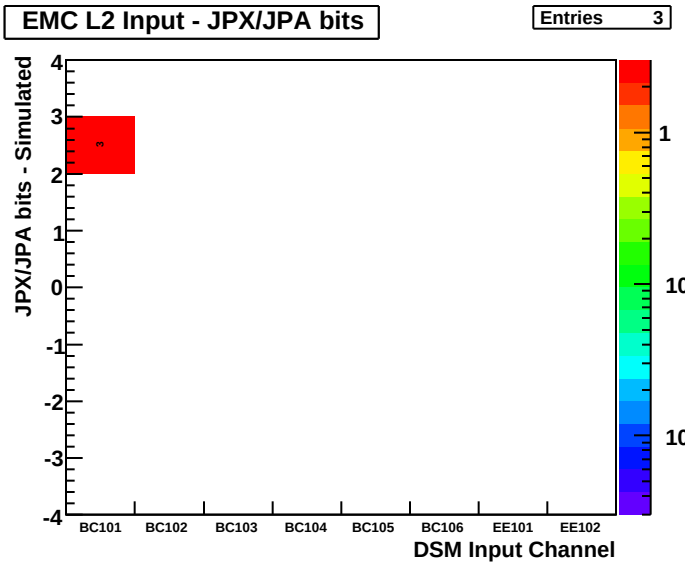

Endcap EMC L1 Input - High Eta Sum
Entries 6147828
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

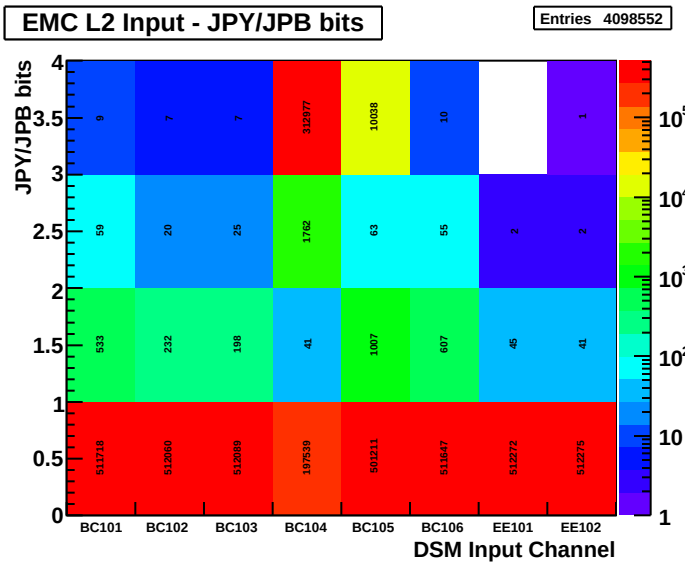

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

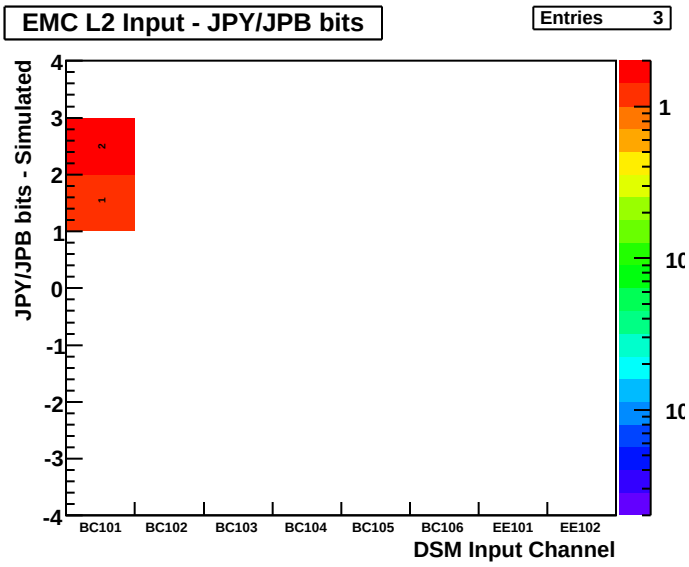

Endcap EMC L1 Input - High Tower Bits
Entries 6147828
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

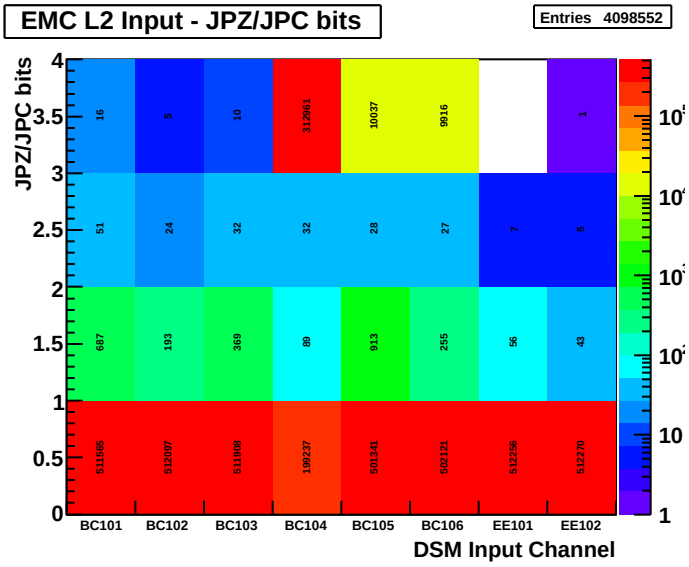

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

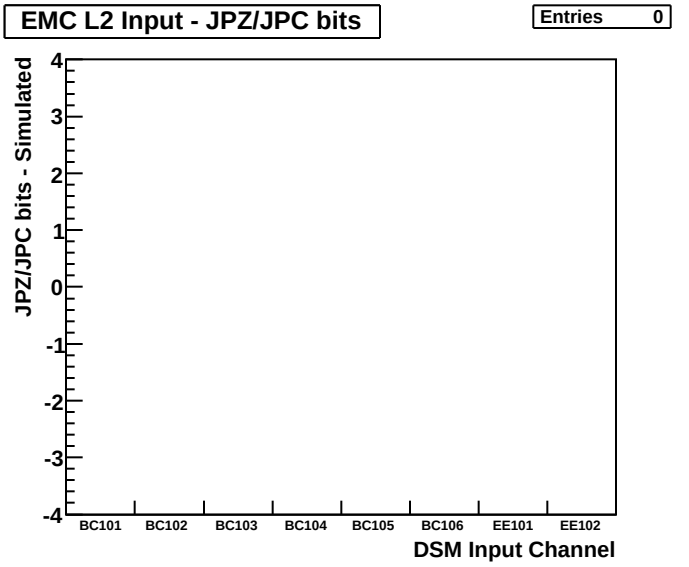

EMC L2 Input - JPX/JPA bits
Entries 4098552
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
10163 10188 20095 81 10 6 1 1
76 39 34 10054 98 38 2 5
554 387 281 118 843 327 50 54
501526 501705 491909 502066 511368 511948 512266 512259

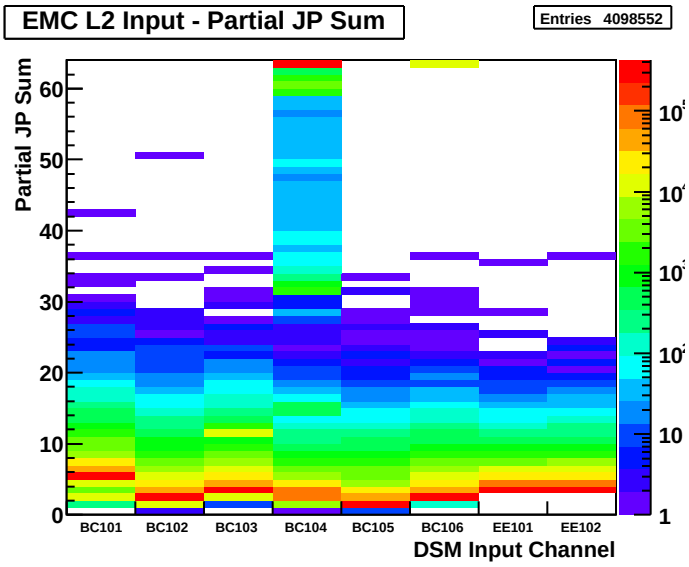

EMC L2 Input - JPX/JPA bits
Entries 3
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3

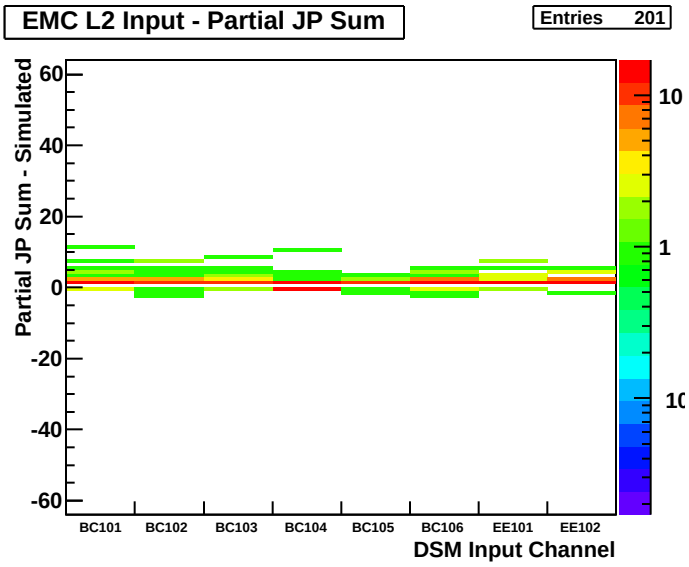

EMC L2 Input - JPY/JPB bits
Entries 4098552
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9 7 7 312977 10038 10 1
59 20 25 1762 63 55 2 2
533 232 198 41 1007 607 45 41
511718 512060 512089 197539 501211 511647 512272 512275

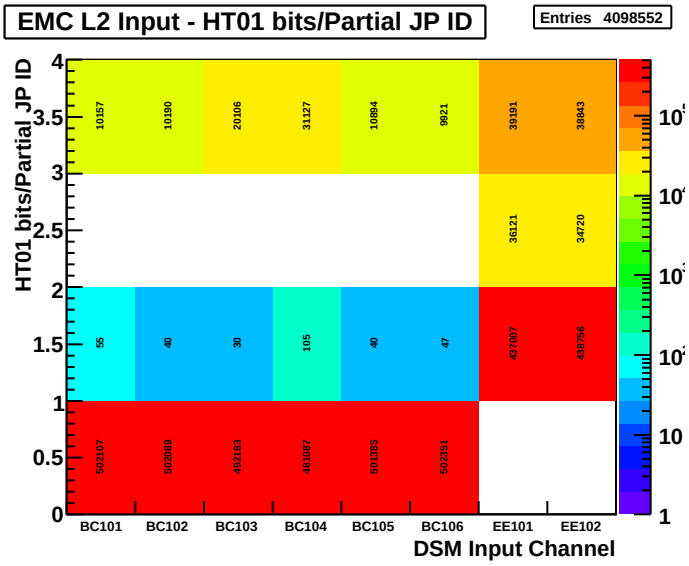

EMC L2 Input - JPY/JPB bits
Entries 3
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2
1

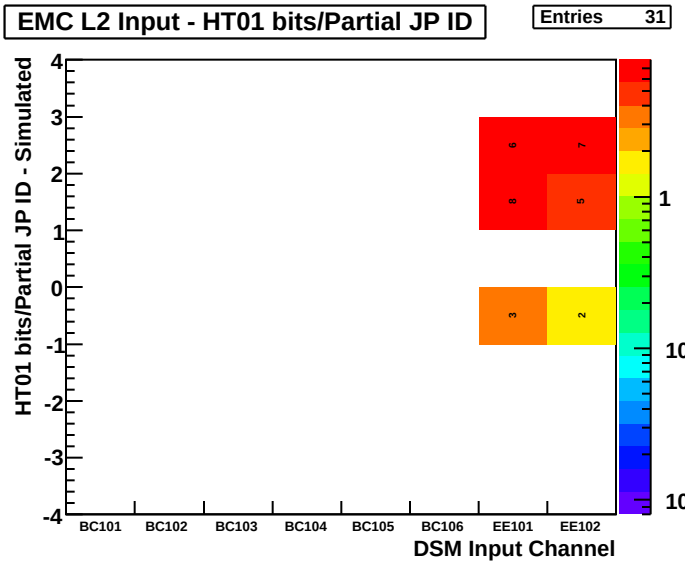

EMC L2 Input - JPZ/JPC bits
Entries 4098552
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
16 5 10 312961 10037 9916 1
51 24 32 32 28 27 7 5
687 193 369 89 913 255 56 43
511565 512097 511908 199237 501341 502121 512256 512270

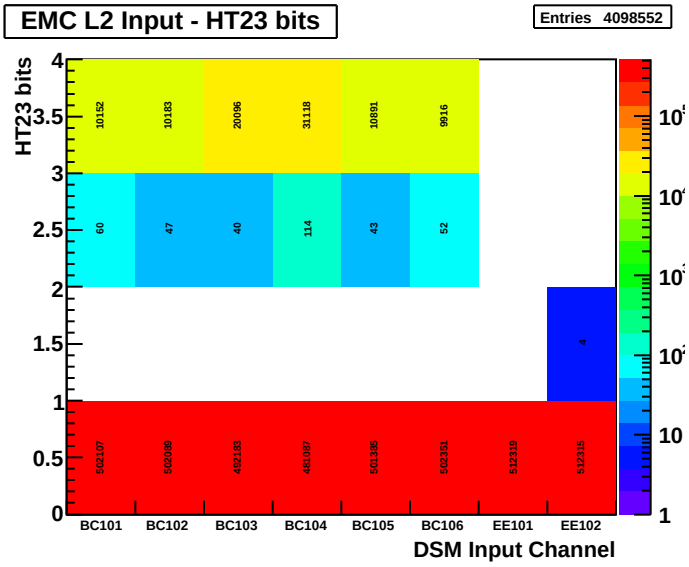

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

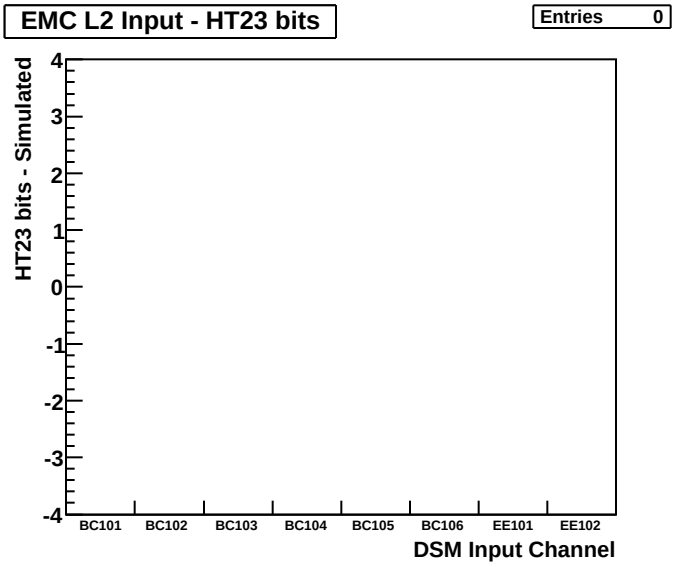

EMC L2 Input - Partial JP Sum
Entries 4098552
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

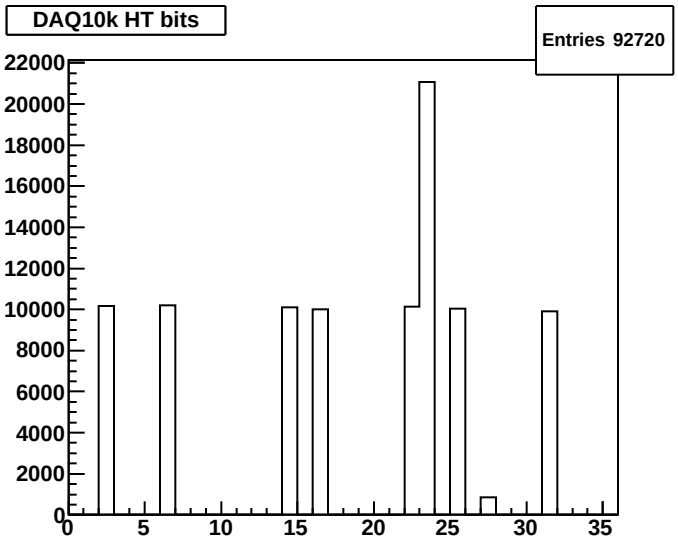

EMC L2 Input - Partial JP Sum
Entries 201
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

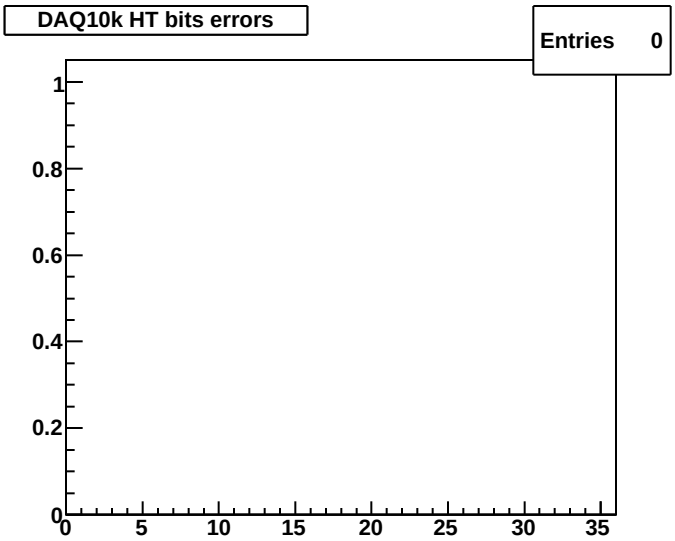

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4098552
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

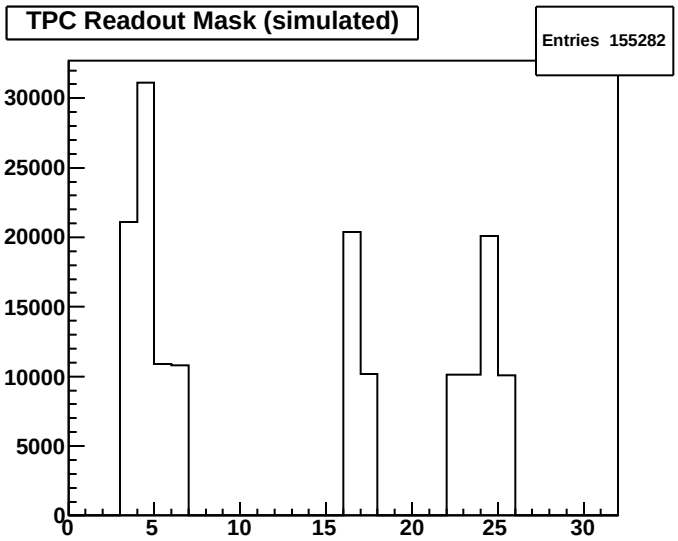

EMC L2 Input - HT01 bits/Partial JP ID
Entries 31
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

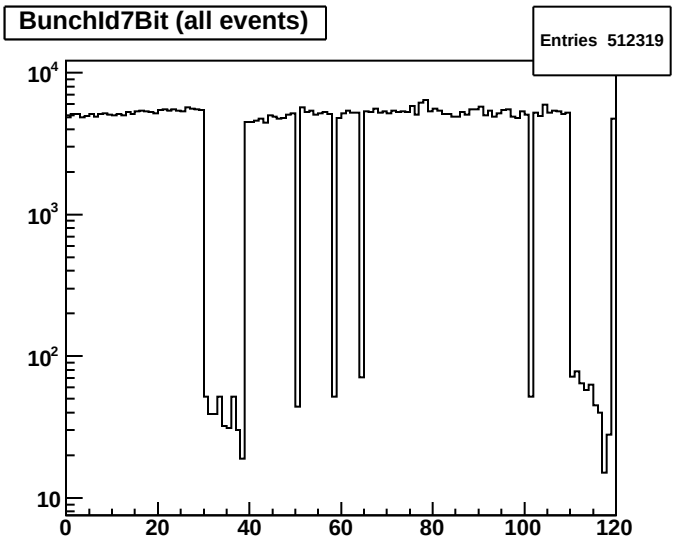

EMC L2 Input - HT23 bits
Entries 4098552
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

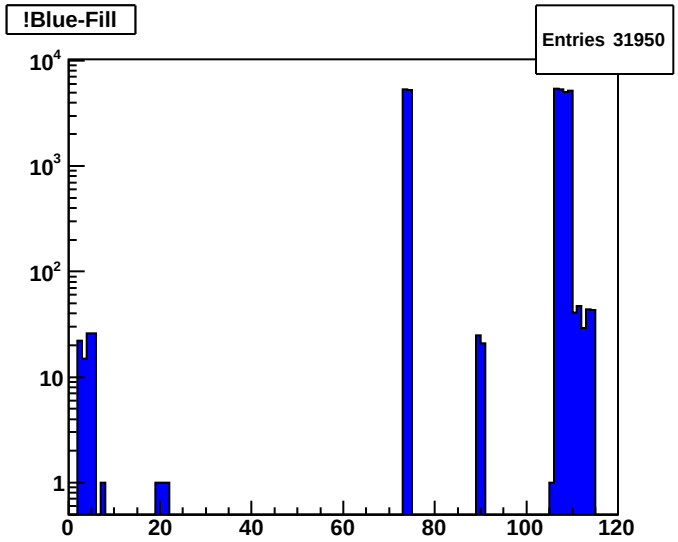

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

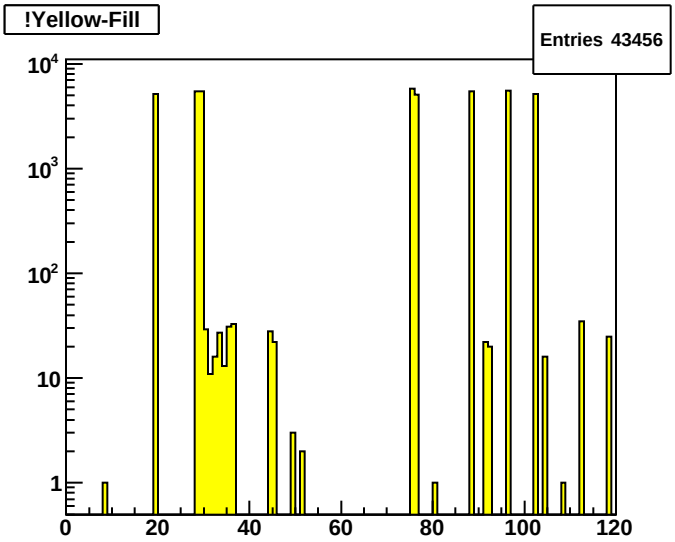

DAQ10k HT bits
Entries 92720

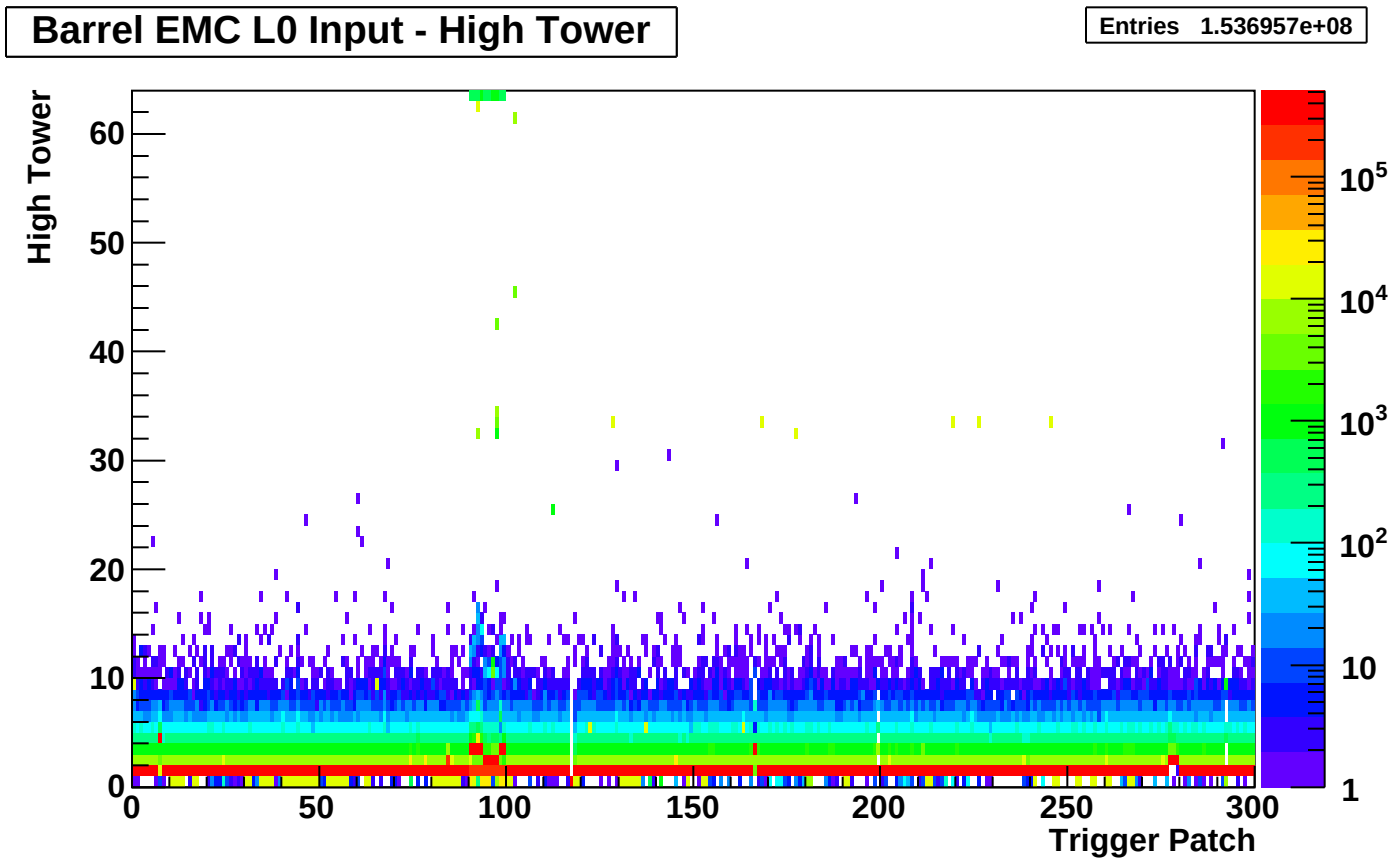

DAQ10k HT bits errors
Entries 0

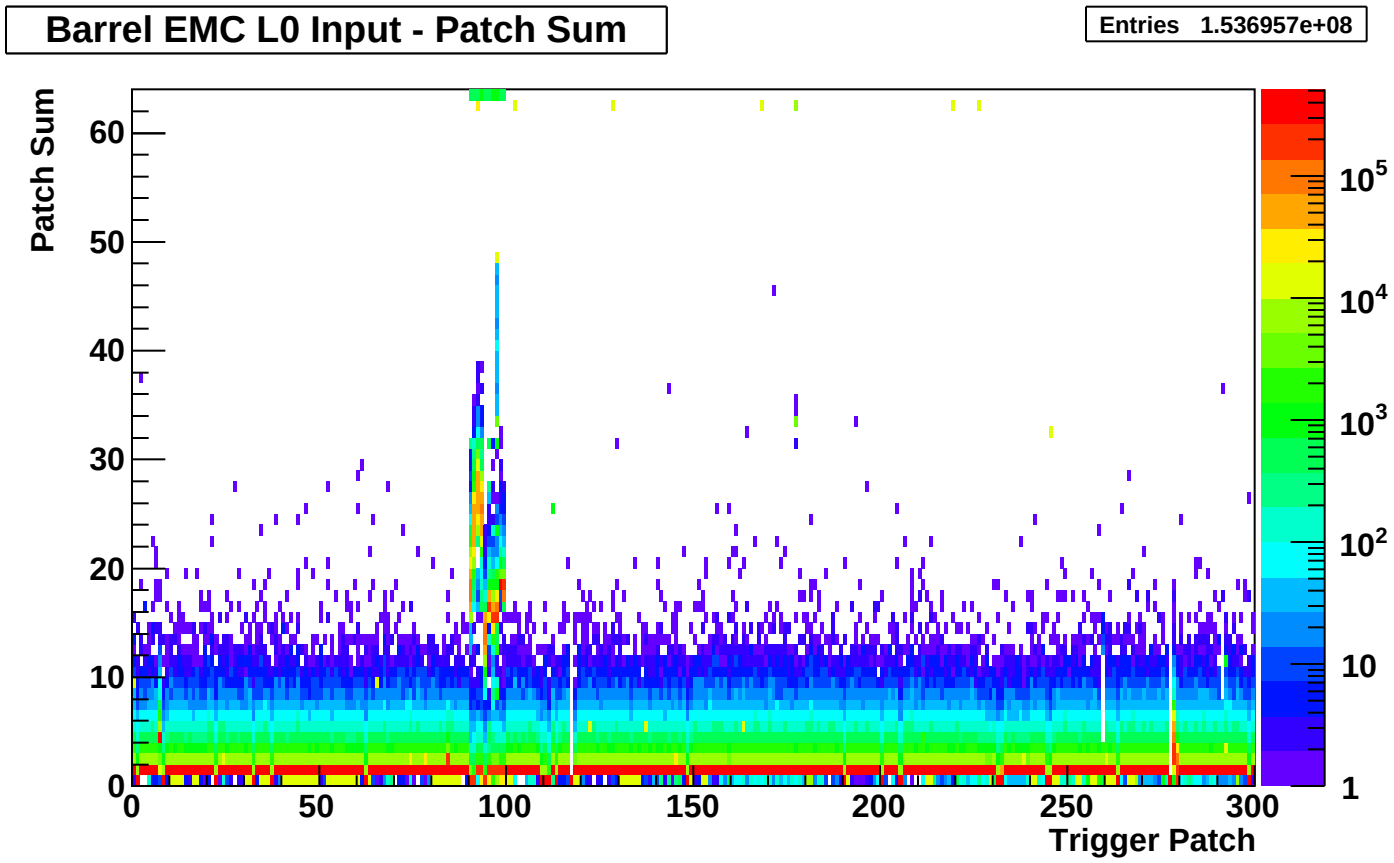

TPC Readout Mask (simulated)
Entries 155282

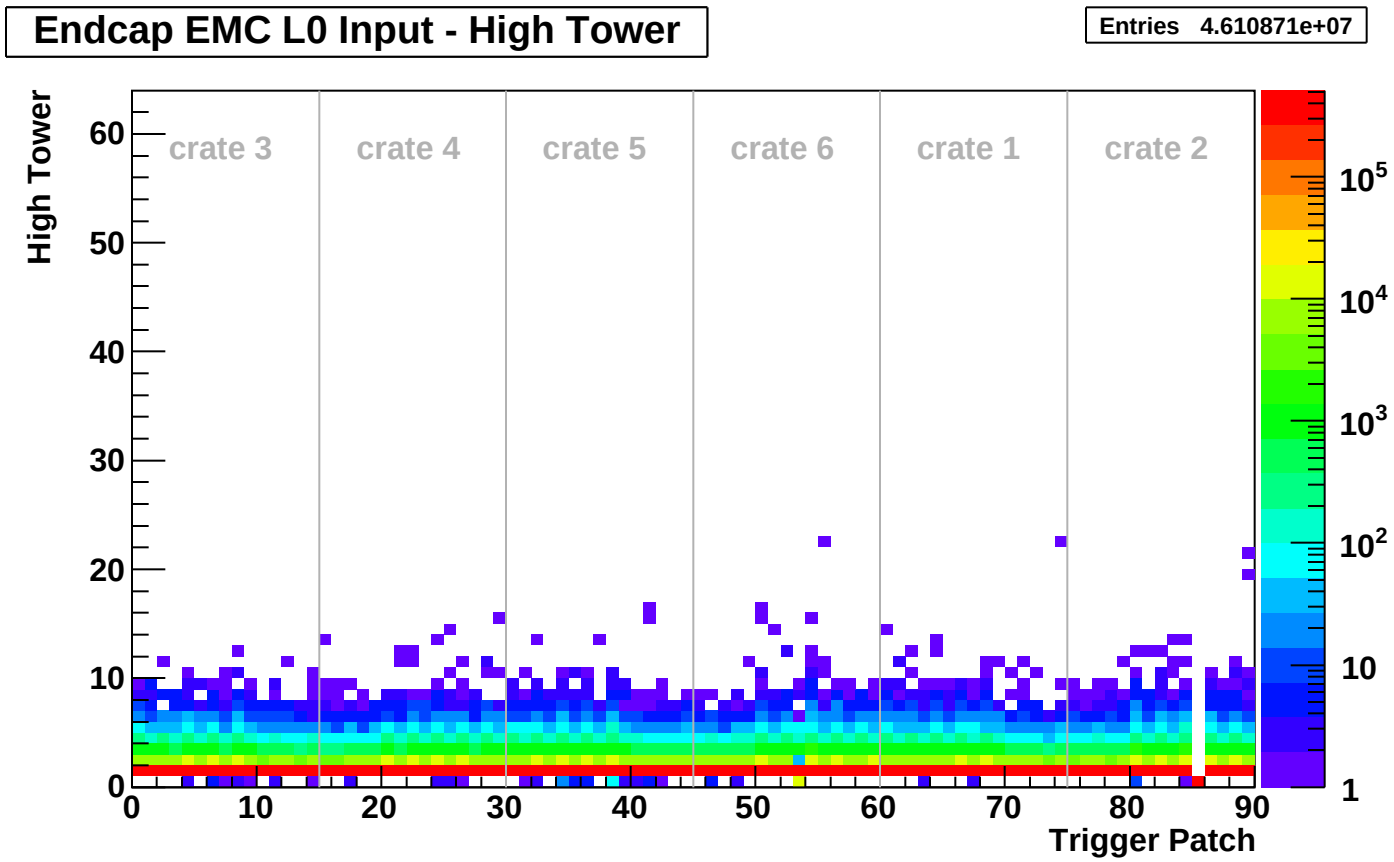

BunchId7Bit (all events)
Entries 512319

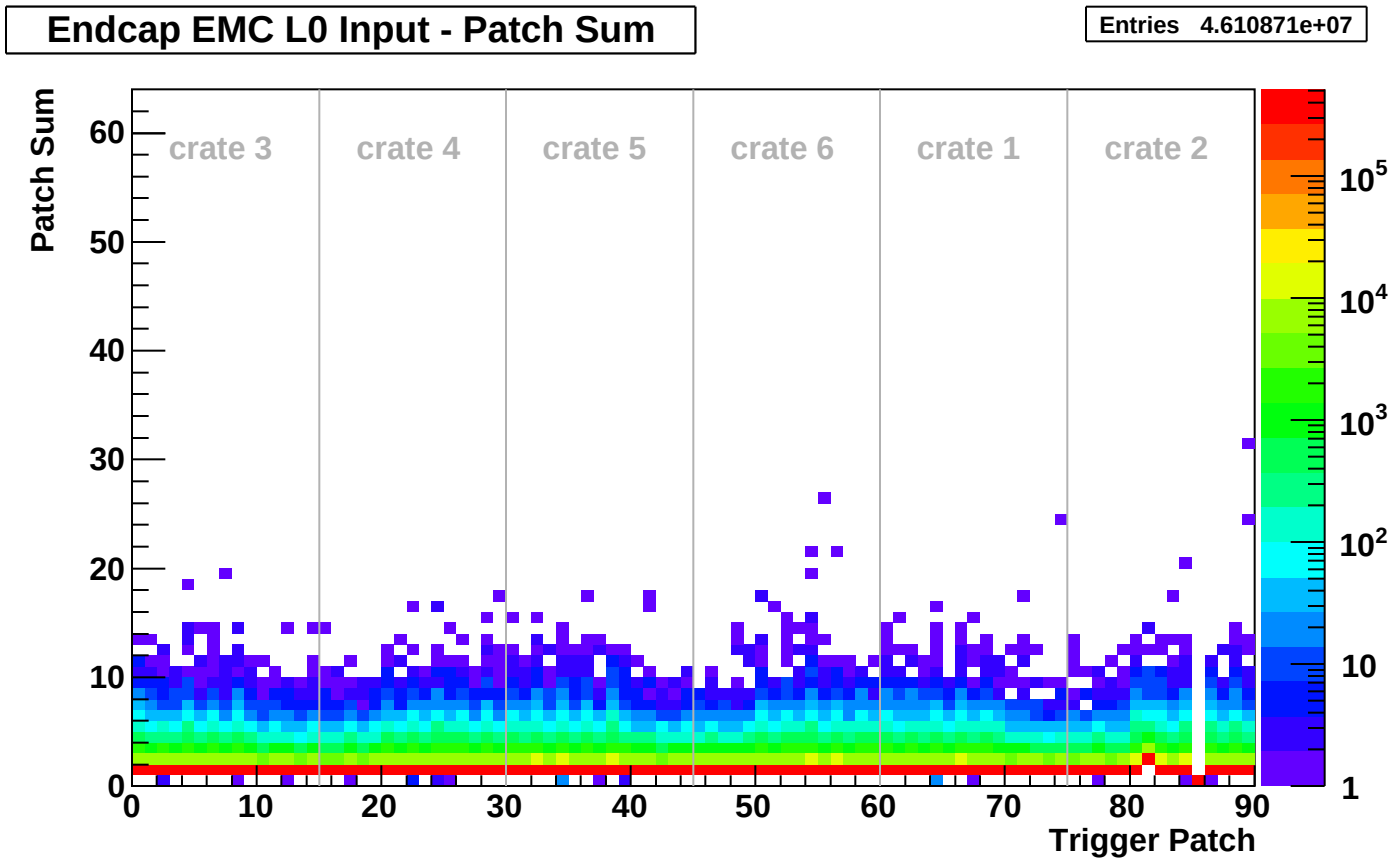

!Blue-Fill
Entries 31950

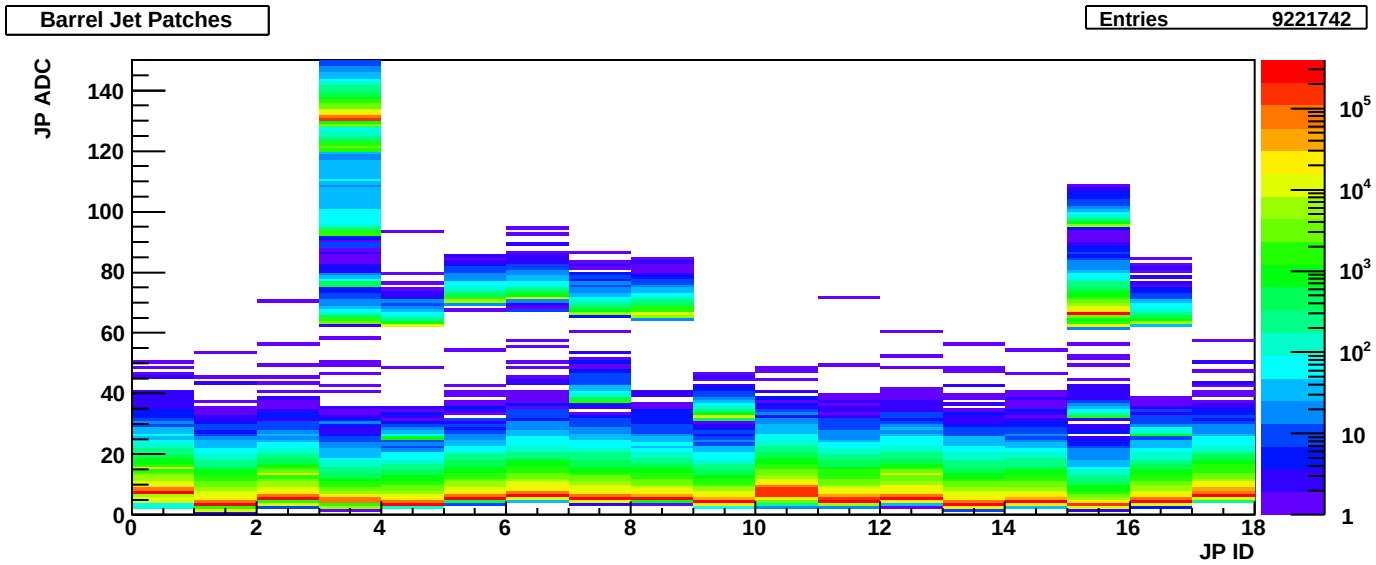

!Yellow-Fill
Entries 43456

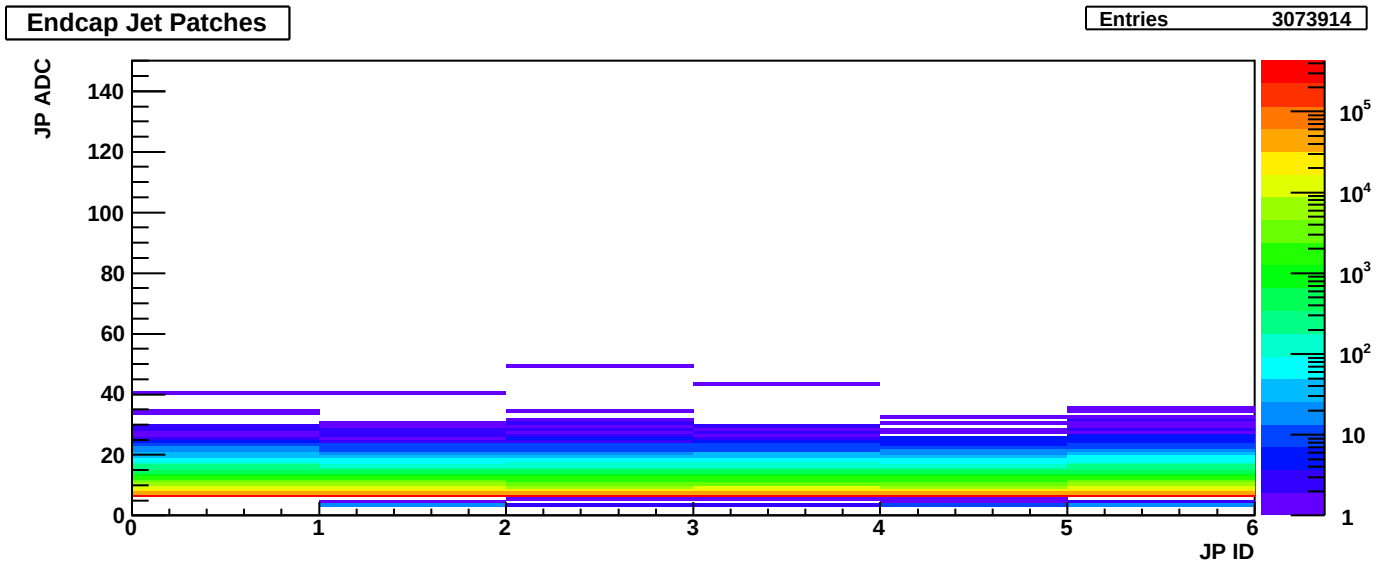

Barrel EMC L0 Input - High Tower
Entries 1.536957e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

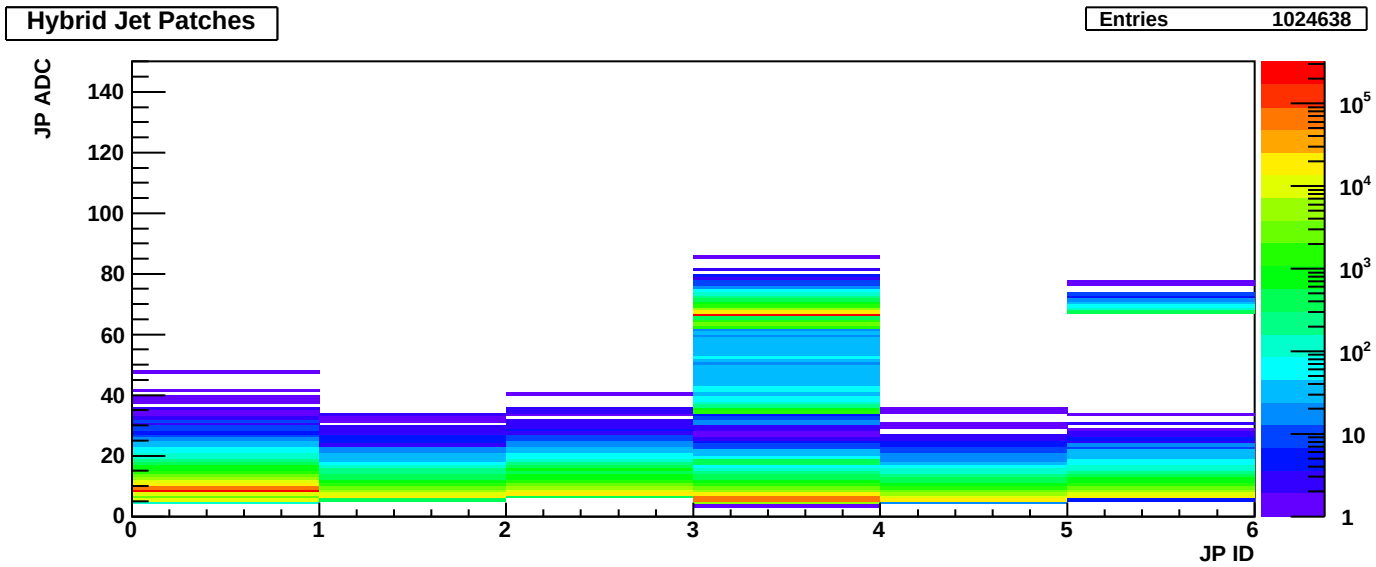

Barrel EMC L0 Input - Patch Sum
Entries 1.536957e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

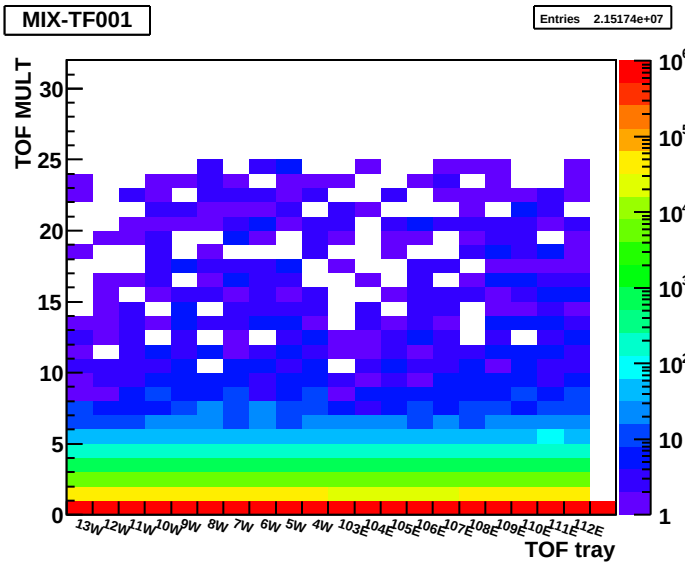

Endcap EMC L0 Input - High Tower
Entries 4.610871e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

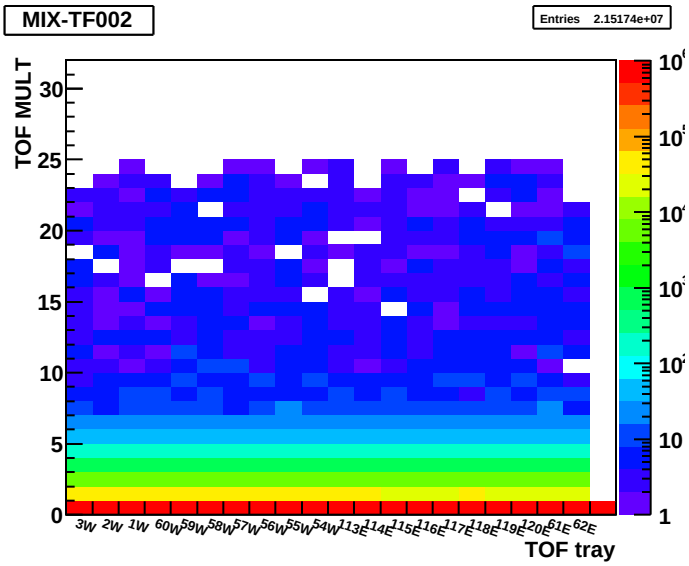

Endcap EMC L0 Input - Patch Sum
Entries 4.610871e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

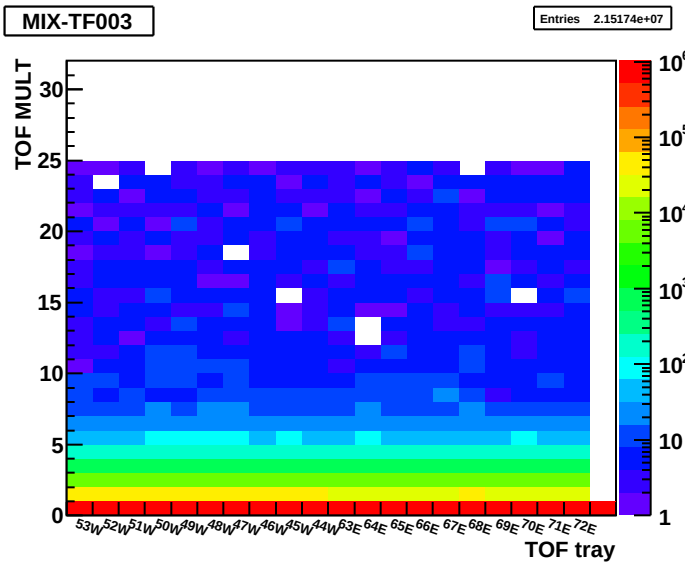

Barrel Jet Patches
Entries 9221742
JP ADC
JP ID

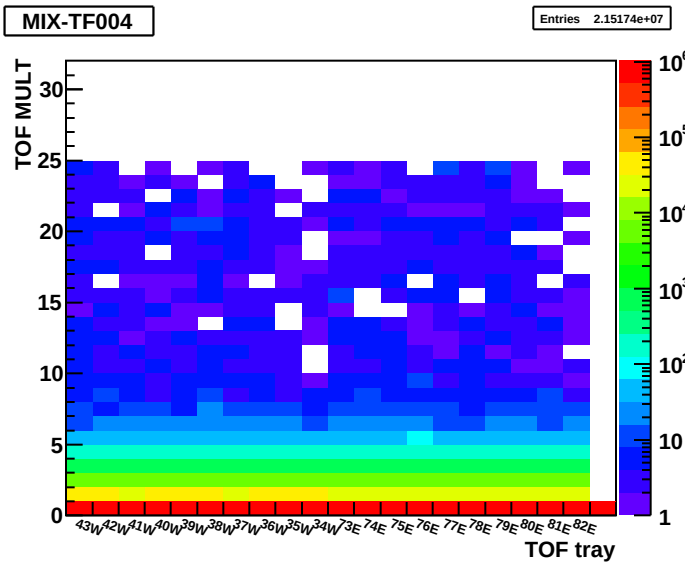

Endcap Jet Patches
Entries 3073914
JP ADC
JP ID

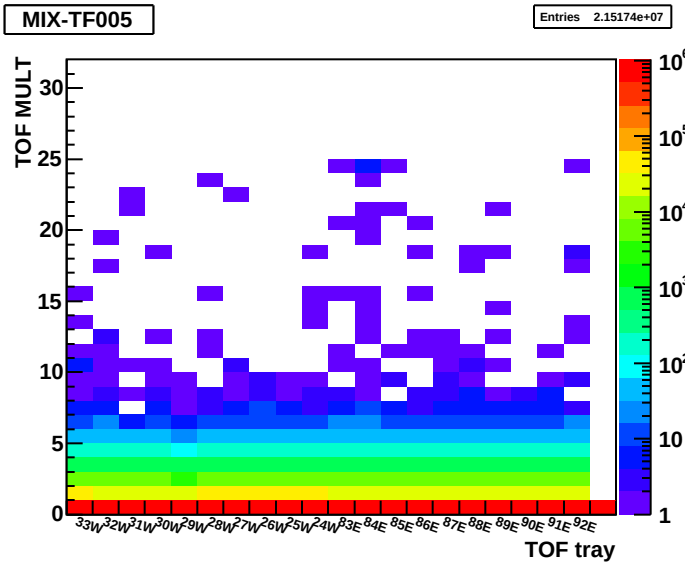

Hybrid Jet Patches
Entries 1024638
JP ADC
JP ID

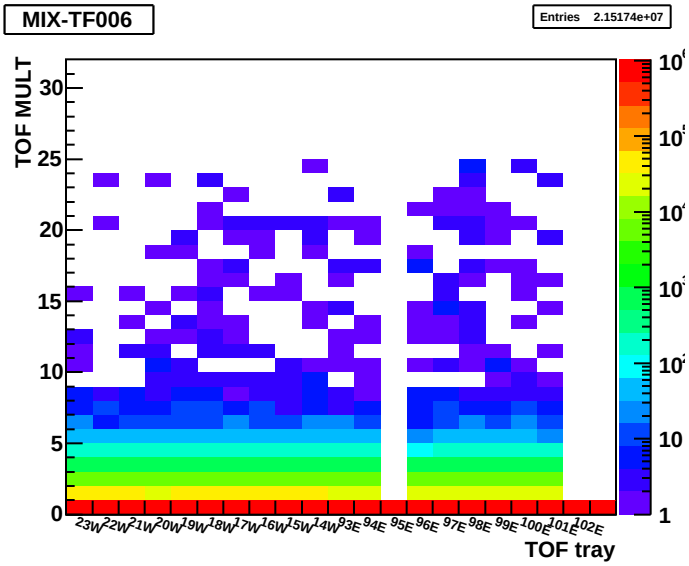

MIX-TF001
Entries 2.15174e+07
TOF MULT
TOF tray

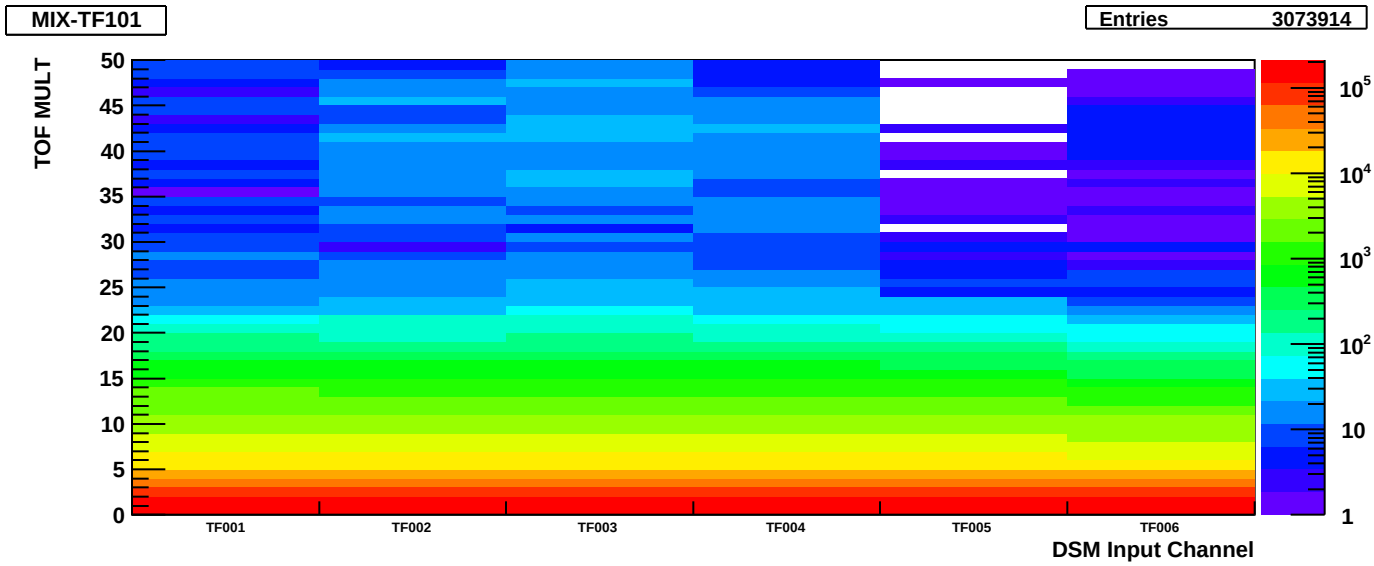

MIX-TF002
Entries 2.15174e+07
TOF MULT
TOF tray

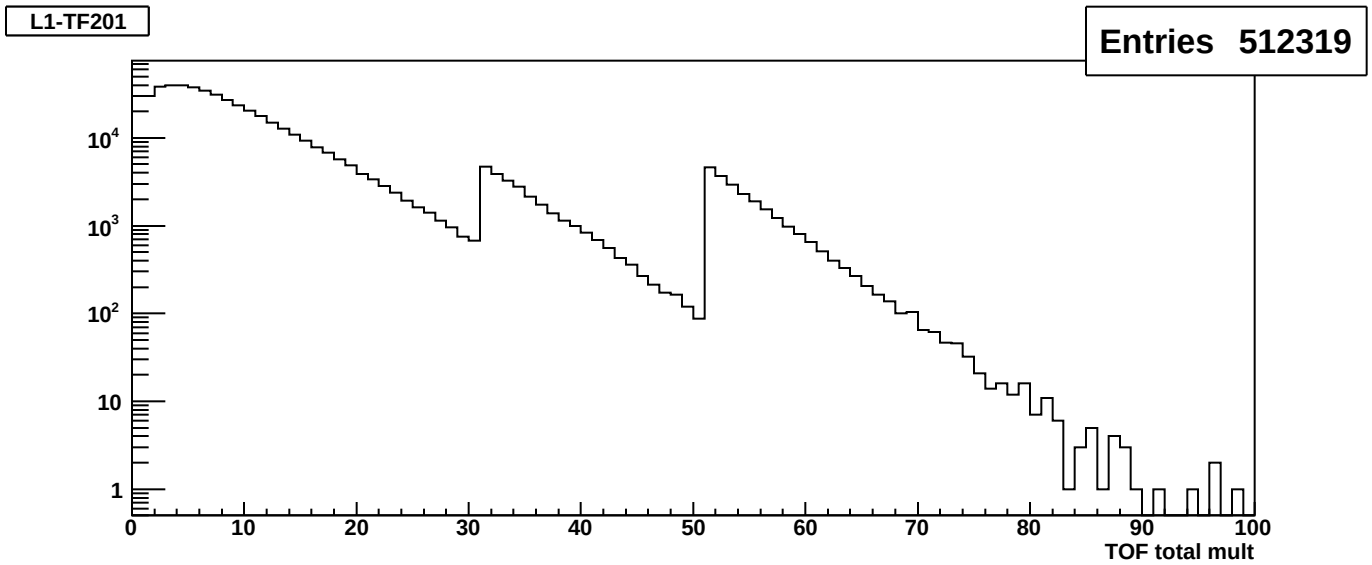

MIX-TF003
Entries 2.15174e+07
TOF MULT
TOF tray

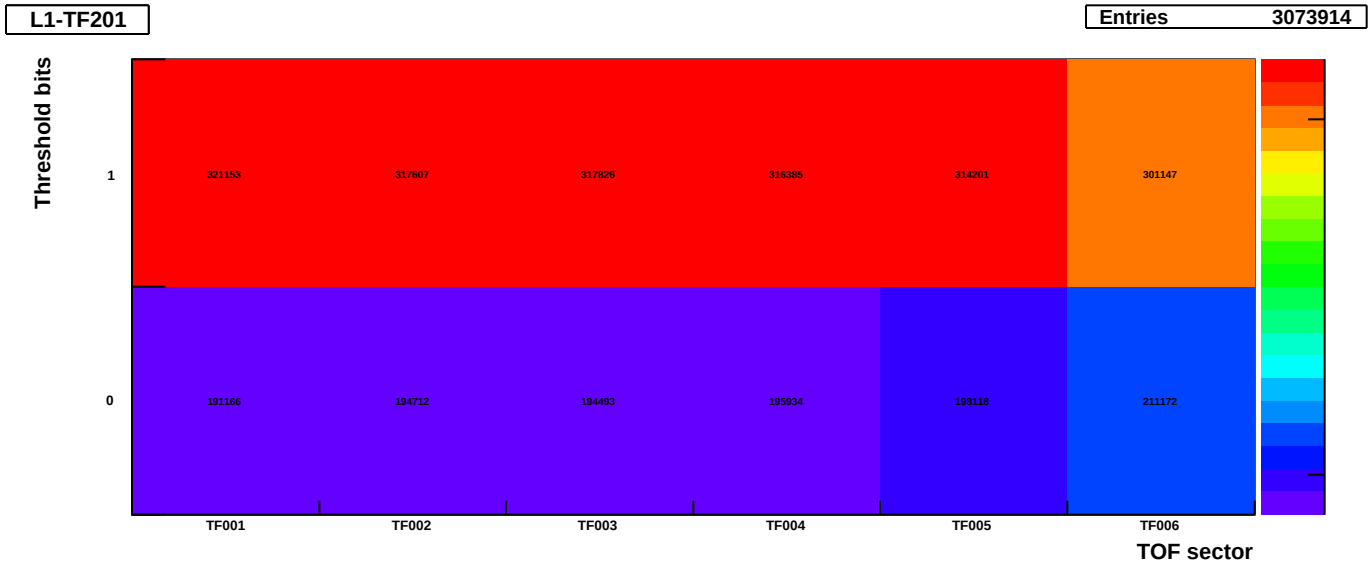

MIX-TF004
Entries 2.15174e+07
TOF MULT
TOF tray

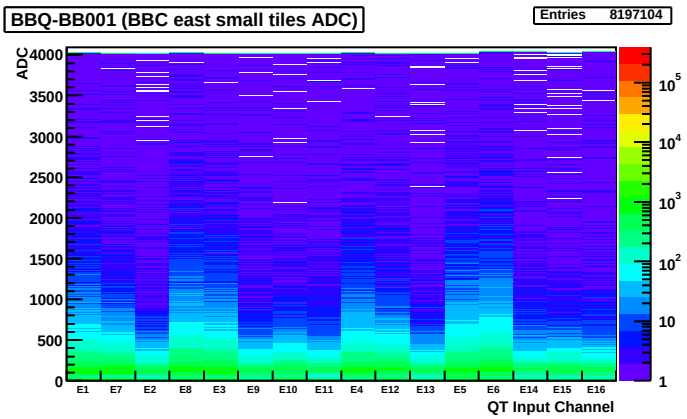

MIX-TF005
Entries 2.15174e+07
TOF MULT
TOF tray

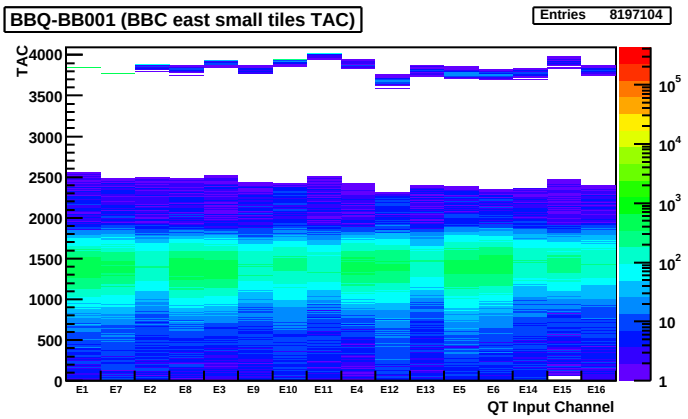

MIX-TF006
Entries 2.15174e+07
TOF MULT
TOF tray

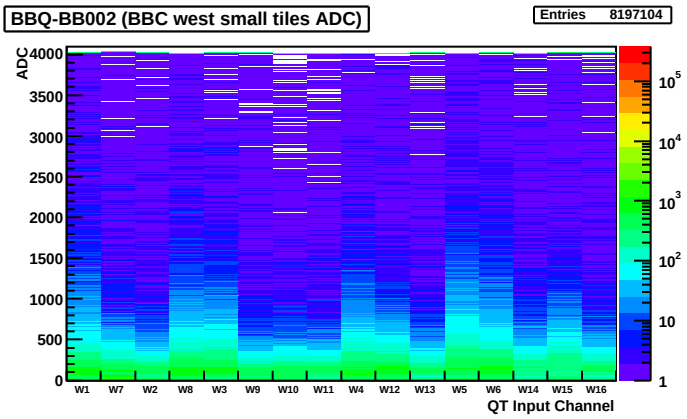

MIX-TF101
Entries 3073914
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

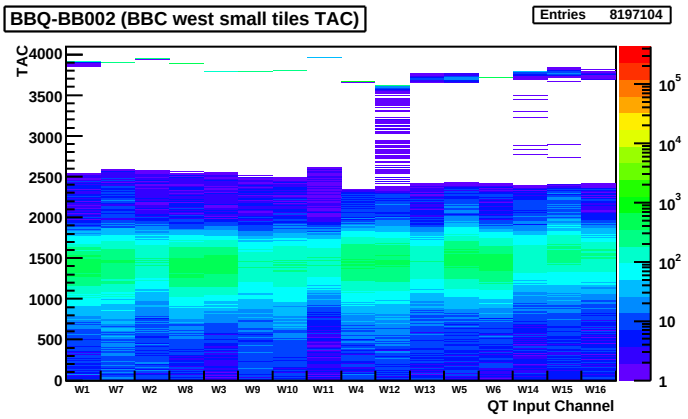

L1-TF201
Entries 512319
TOF total mult

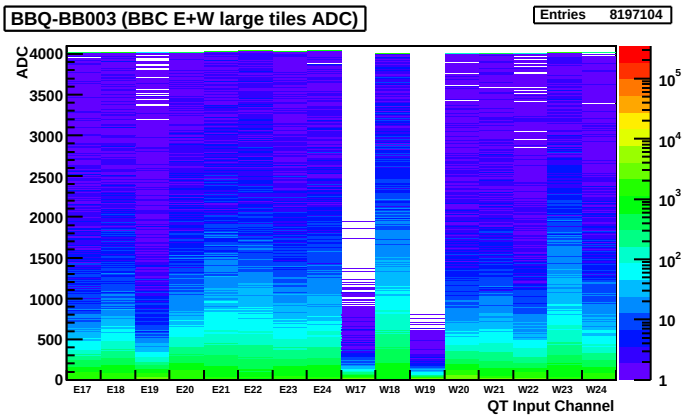

L1-TF201
Entries 3073914
Threshold bits
321153
317607
317826
316385
314201
301147
191166
194712
194493
195934
198118
211172
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

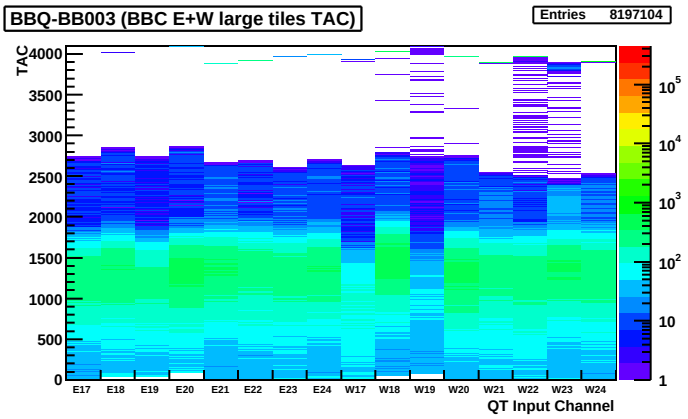

BBQ-BB001 (BBC east small tiles ADC)
Entries 8197104
ADC
QT Input Channel

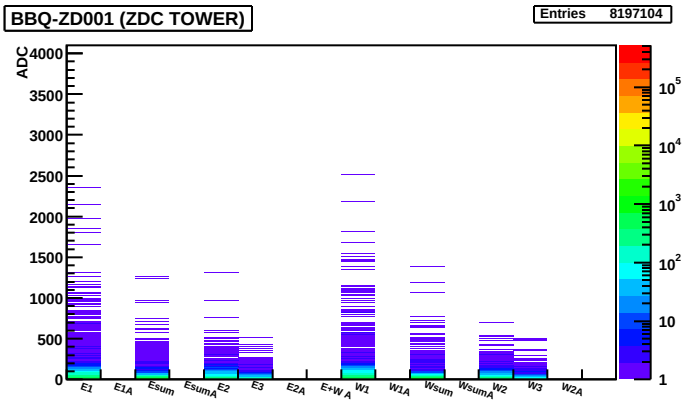

BBQ-BB001 (BBC east small tiles TAC)
Entries 8197104
TAC
QT Input Channel

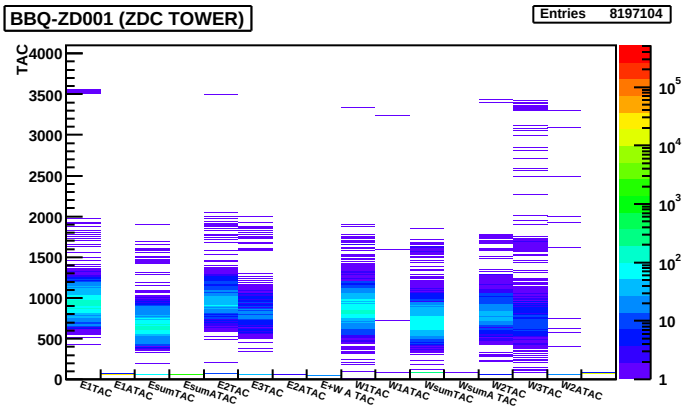

BBQ-BB002 (BBC west small tiles ADC)
Entries 8197104
ADC
QT Input Channel

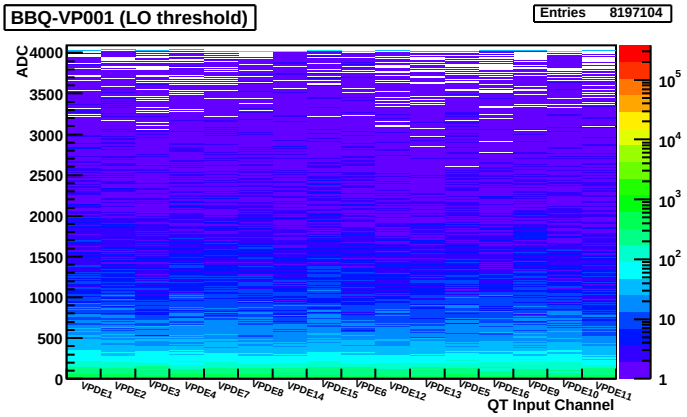

BBQ-BB002 (BBC west small tiles TAC)
Entries 8197104
TAC
QT Input Channel

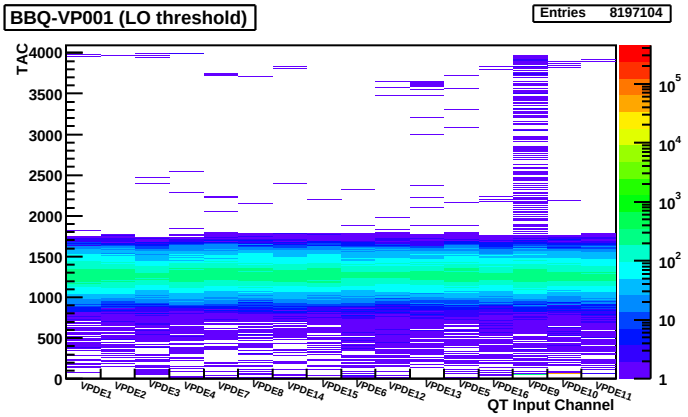

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8197104
ADC
QT Input Channel

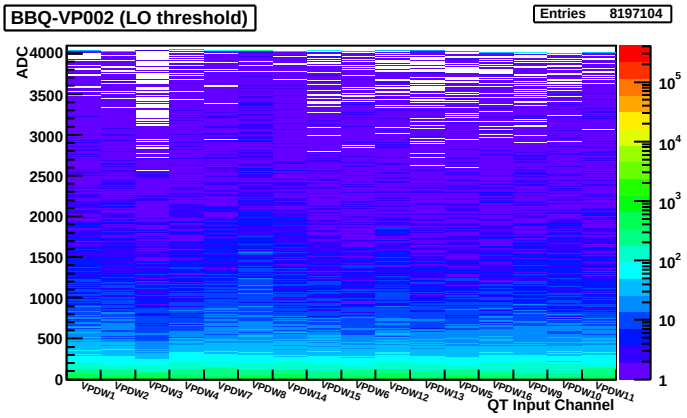

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8197104
TAC
QT Input Channel

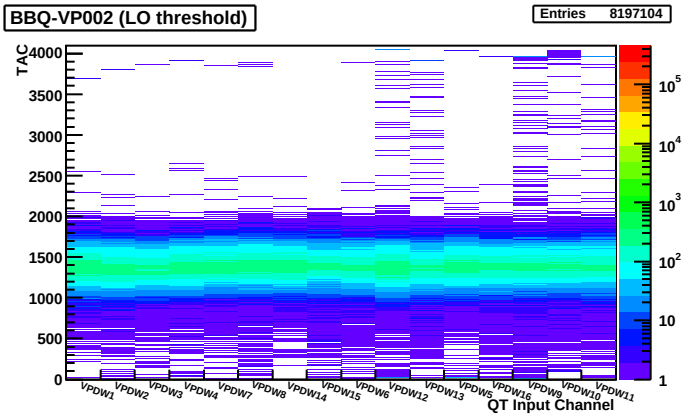

BBQ-ZD001 (ZDC TOWER)
Entries 8197104
ADC

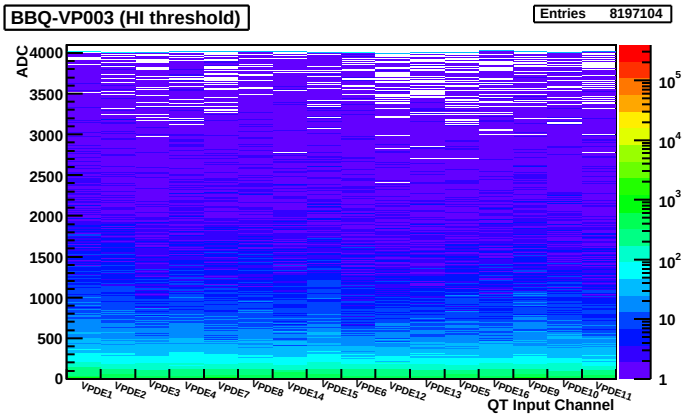

BBQ-ZD001 (ZDC TOWER)
Entries 8197104
TAC

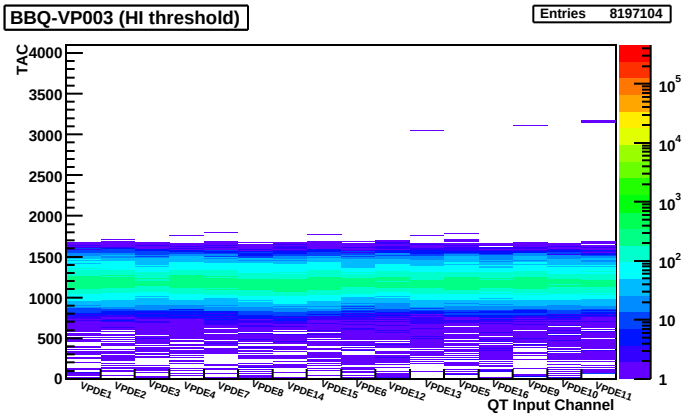

BBQ-VP001 (LO threshold)
Entries 8197104
ADC
QT Input Channel

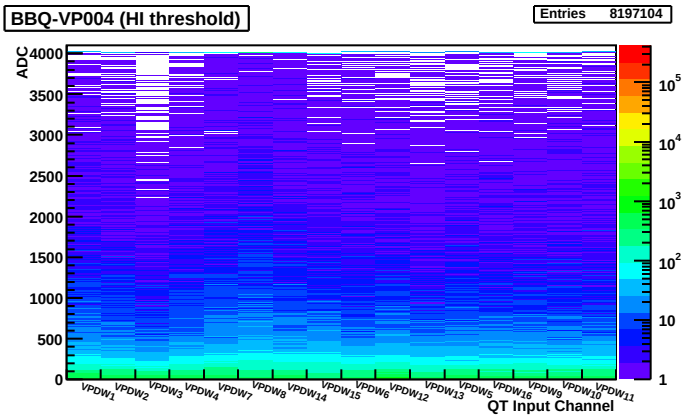

BBQ-VP001 (LO threshold)
Entries 8197104
TAC
QT Input Channel

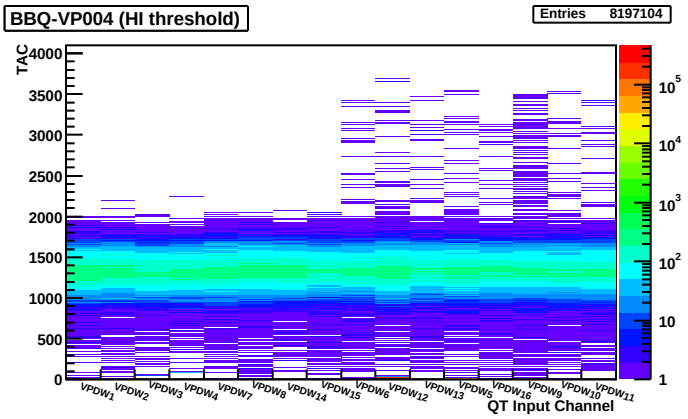

BBQ-VP002 (LO threshold)
Entries 8197104
ADC
QT Input Channel

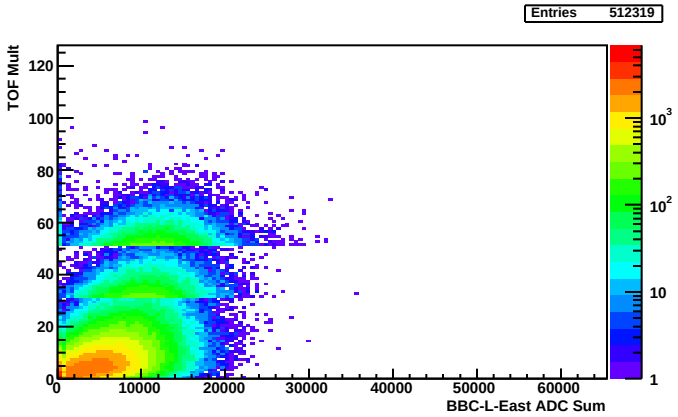

BBQ-VP002 (LO threshold)
Entries 8197104
TAC
QT Input Channel

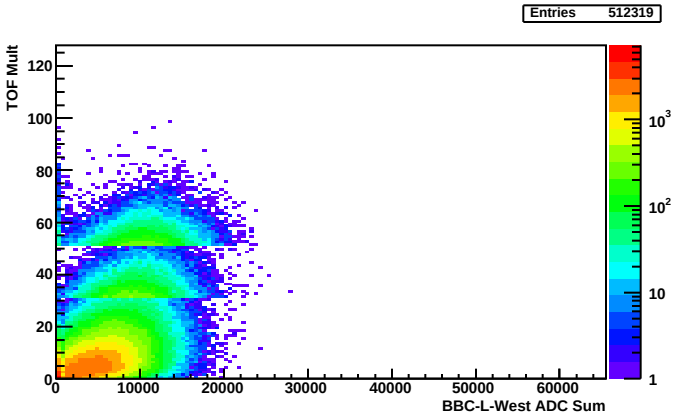

BBQ-VP003 (HI threshold)
Entries 8197104
ADC
QT Input Channel

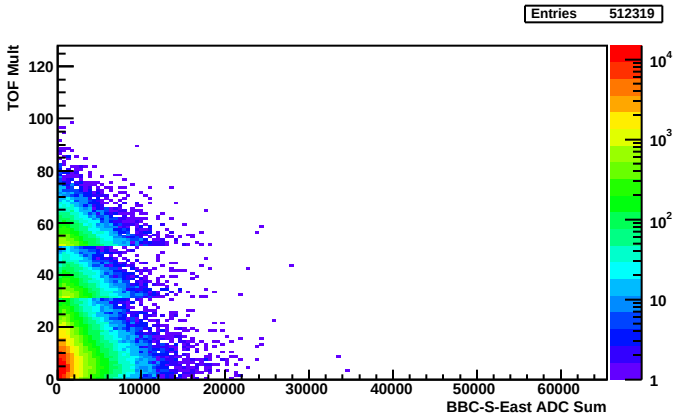

BBQ-VP003 (HI threshold)
Entries 8197104
TAC
QT Input Channel

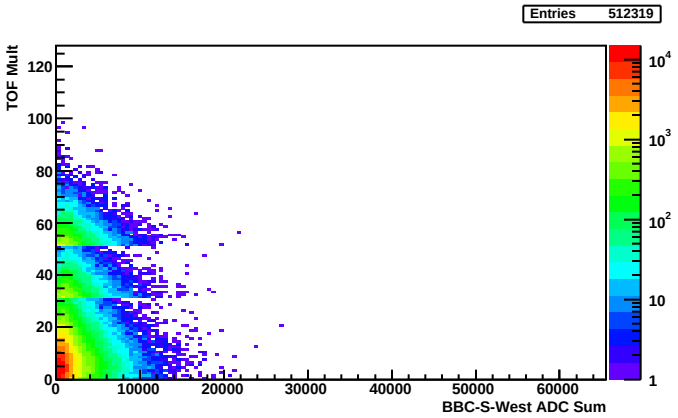

BBQ-VP004 (HI threshold)
Entries 8197104
ADC
QT Input Channel

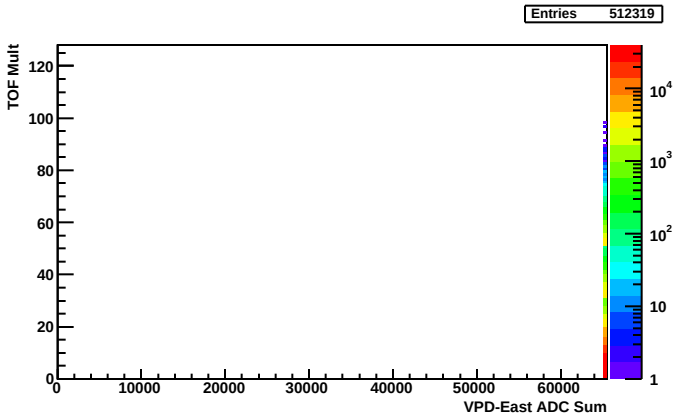

BBQ-VP004 (HI threshold)
Entries 8197104
TAC
QT Input Channel

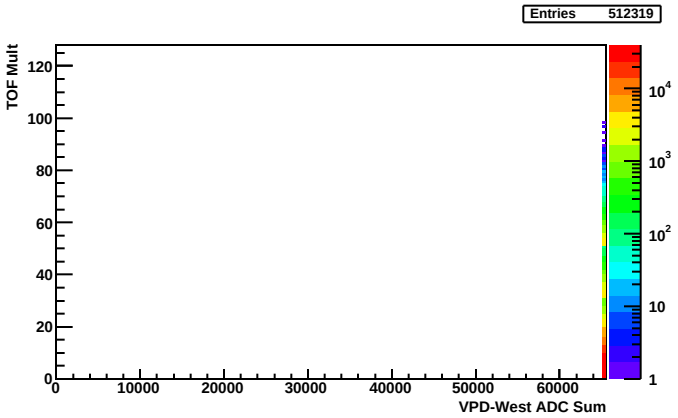

Entries 512319
TOF Mult
BBC-L-East ADC Sum

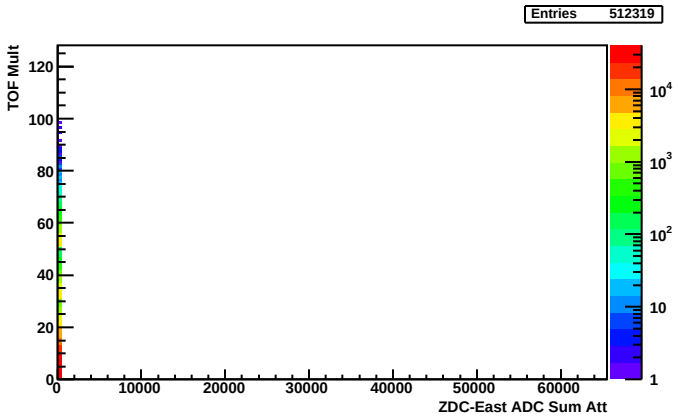

Entries 512319
TOF Mult
BBC-L-West ADC Sum

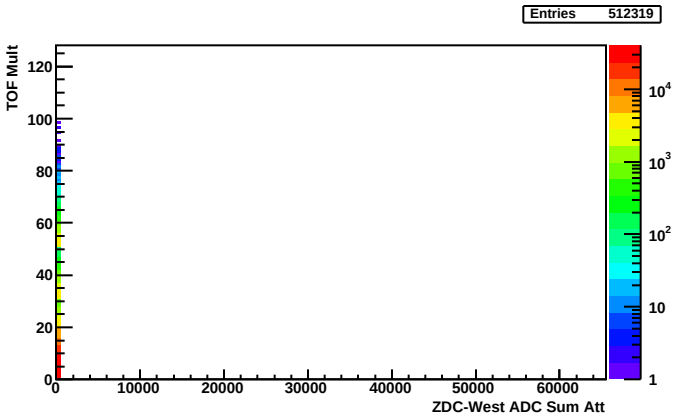

Entries 512319
TOF Mult
BBC-S-East ADC Sum

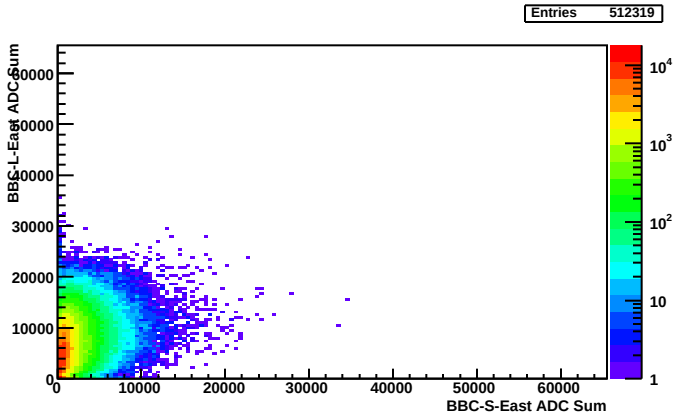

Entries 512319
TOF Mult
BBC-S-West ADC Sum

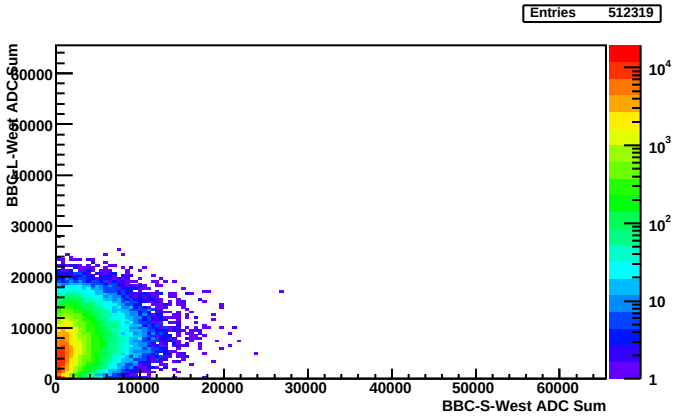

Entries 512319
TOF Mult
VPD-East ADC Sum

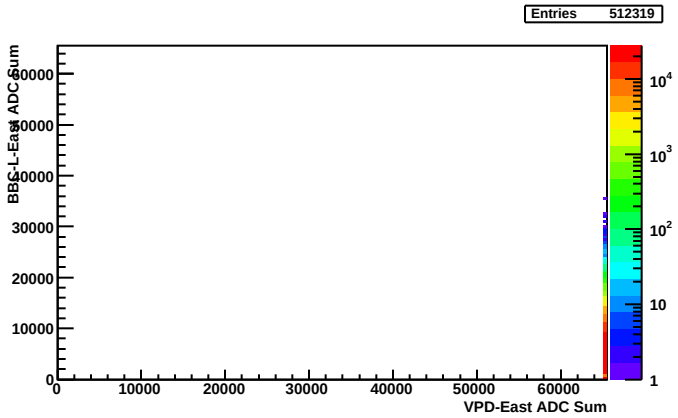

Entries 512319
TOF Mult
VPD-West ADC Sum

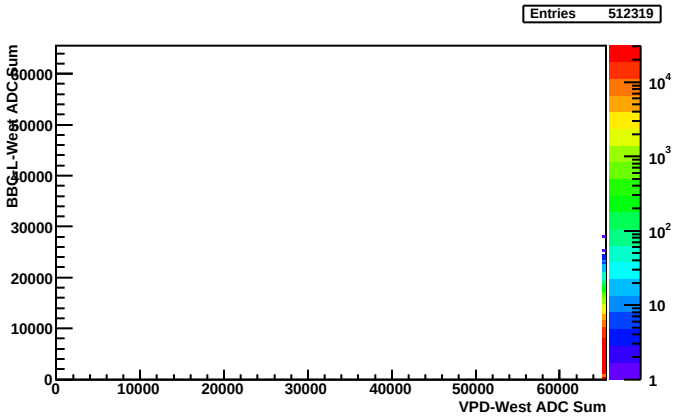

Entries 512319
TOF Mult
ZDC-East ADC Sum Att

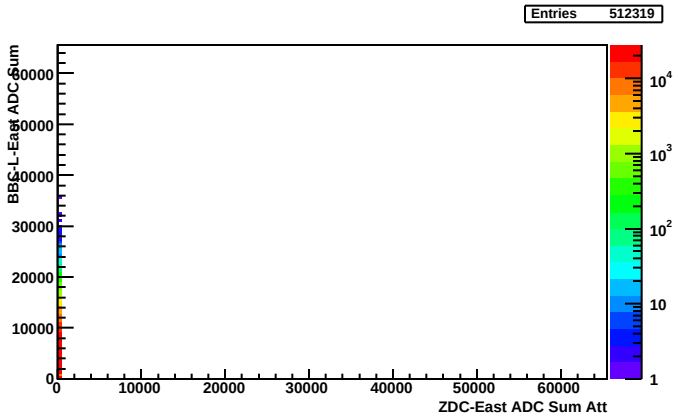

Entries 512319
TOF Mult
ZDC-West ADC Sum Att

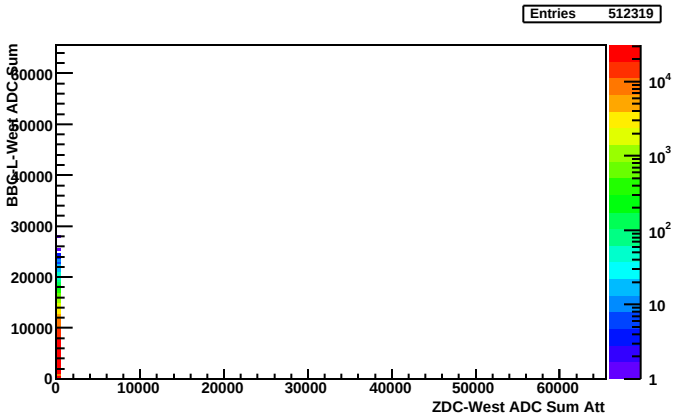

Entries 512319
BBC-L-East ADC Sum
BBC-S-East ADC Sum

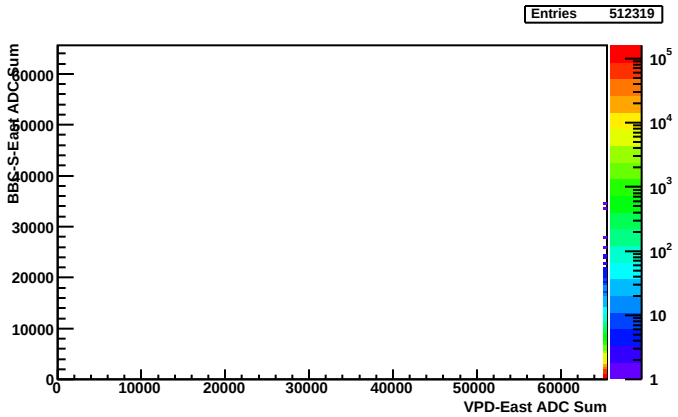

Entries 512319
BBC-L-West ADC Sum
BBC-S-West ADC Sum

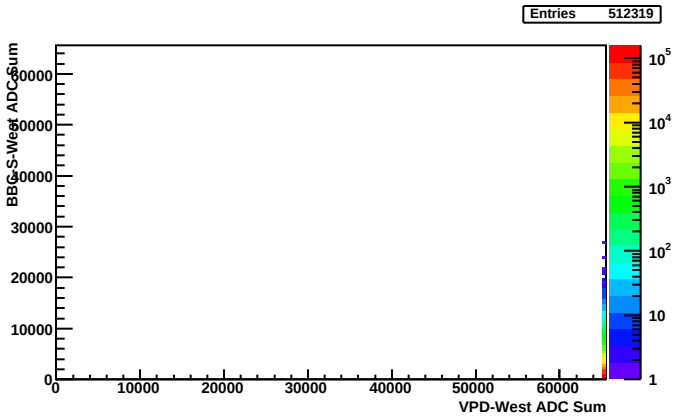

Entries 512319
BBC-L-East ADC Sum
VPD-East ADC Sum

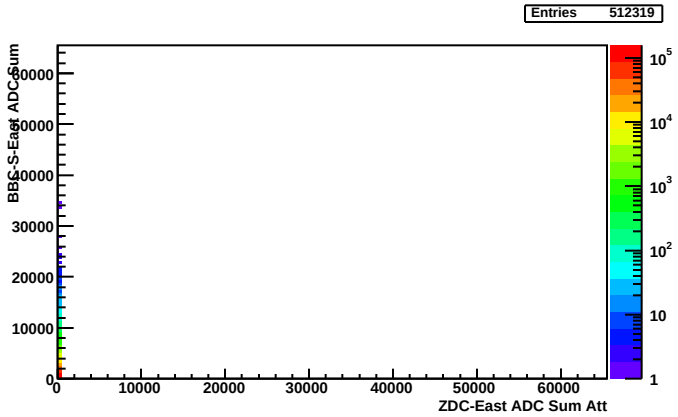

Entries 512319
BBC-L-West ADC Sum
VPD-West ADC Sum

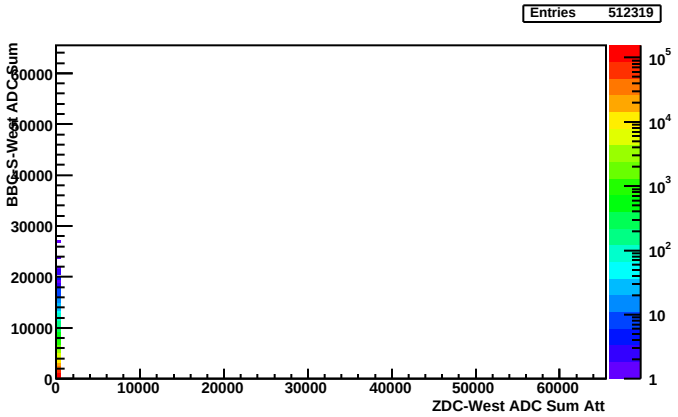

Entries 512319
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

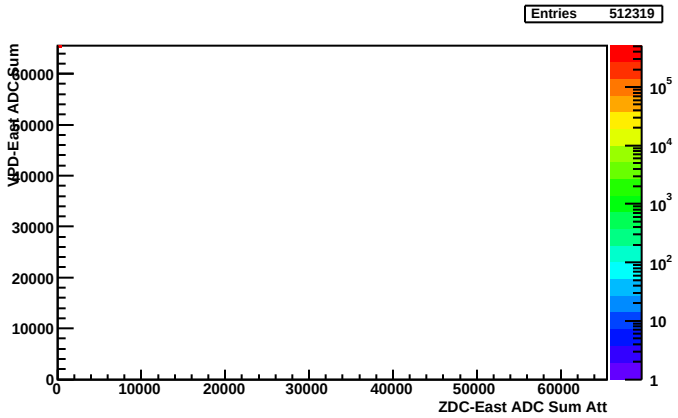

Entries 512319
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

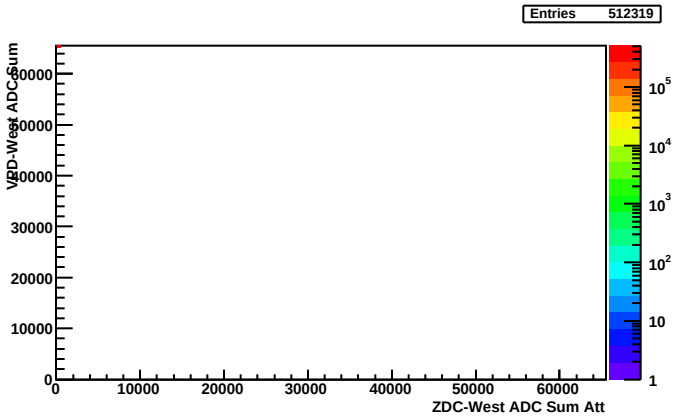

Entries 512319
BBC-S-East ADC Sum
VPD-East ADC Sum

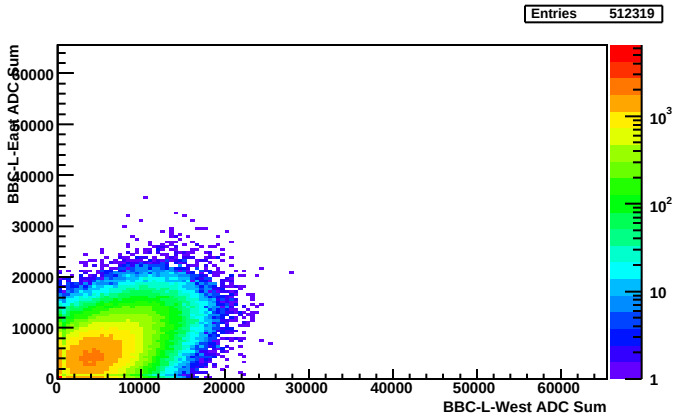

Entries 512319
BBC-S-West ADC Sum
VPD-West ADC Sum

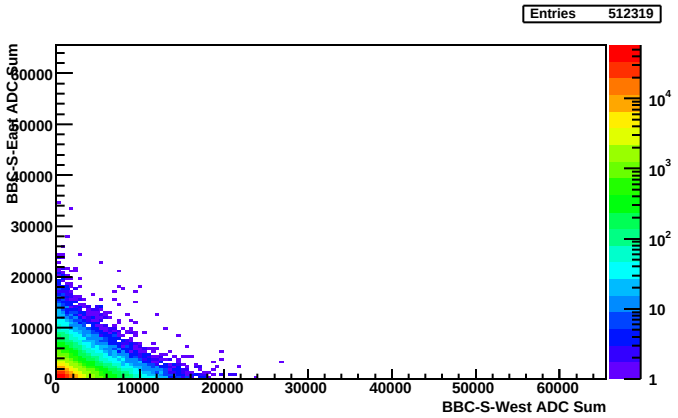

Entries 512319
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

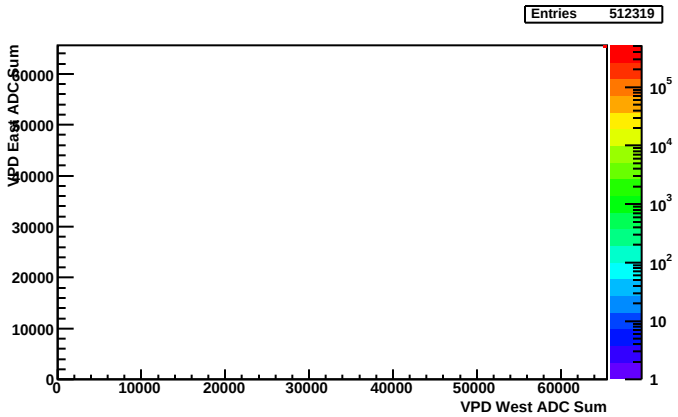

Entries 512319
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

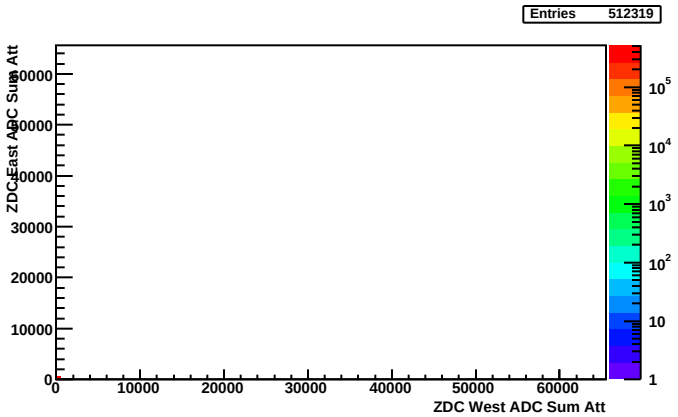

Entries 512319
VPD-East ADC Sum
ZDC-East ADC Sum Att

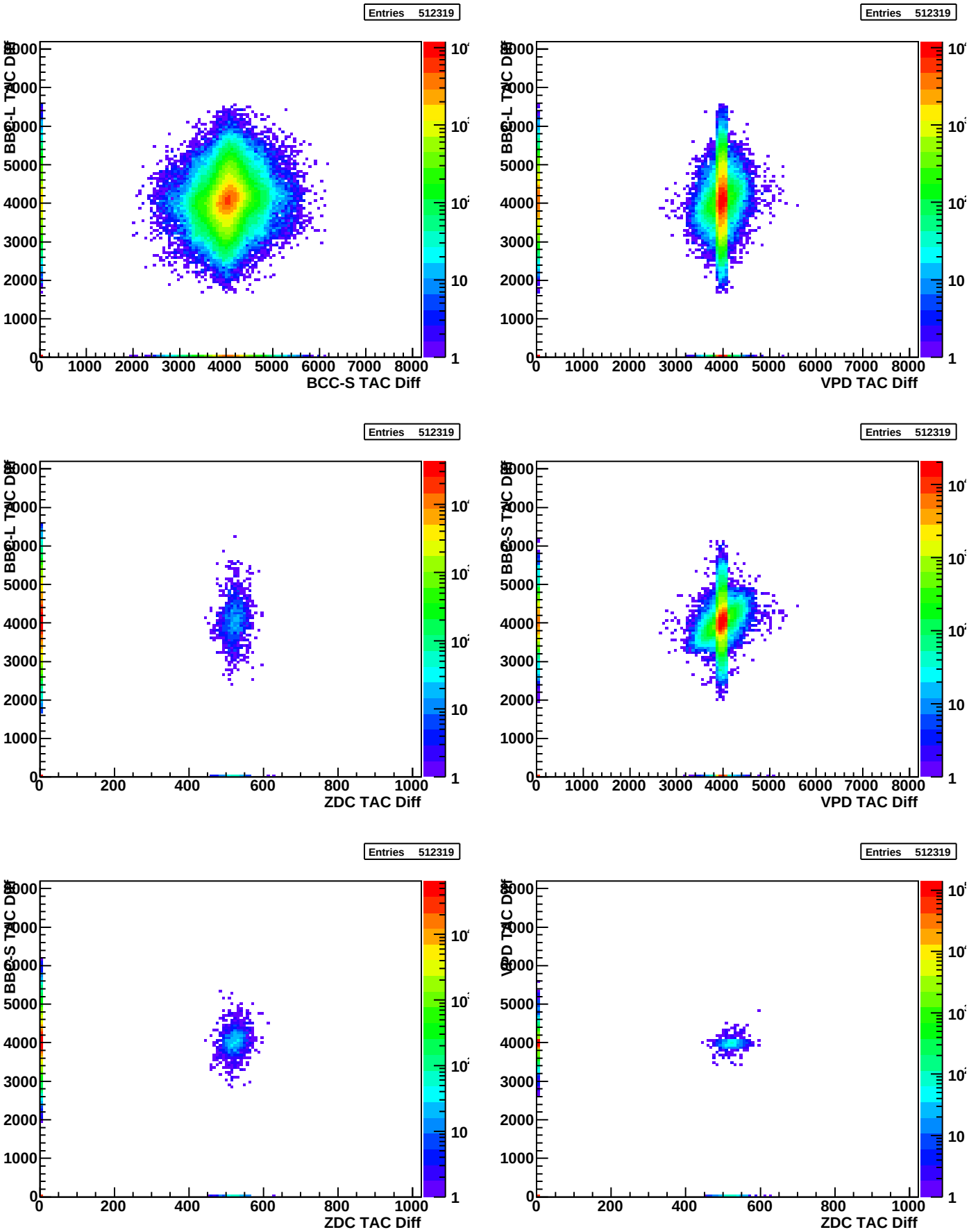

Entries 512319
VPD-West ADC Sum
ZDC-West ADC Sum Att

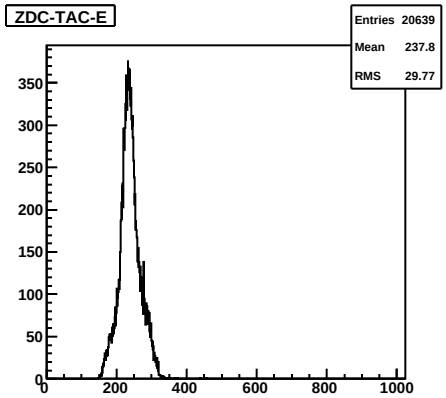

Entries 512319
BBC-L-East ADC Sum
BBC-L-West ADC Sum

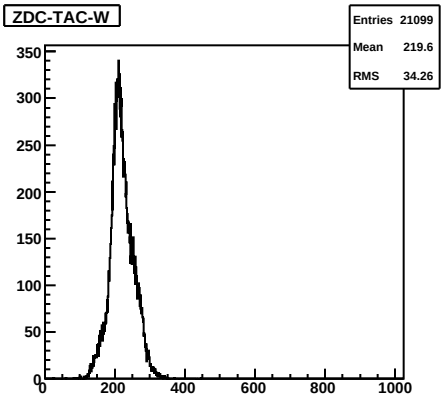

Entries 512319
BBC-S-East ADC Sum
BBC-S-West ADC Sum

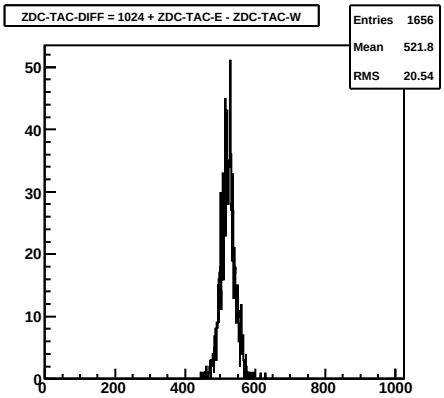

Entries 512319
VPD East ADC Sum
VPD West ADC Sum

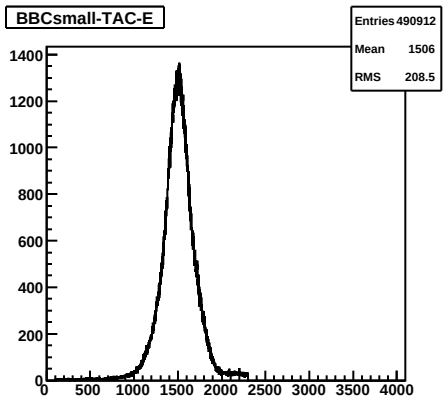

Entries 512319
ZDC East ADC Sum Att
ZDC West ADC Sum Att

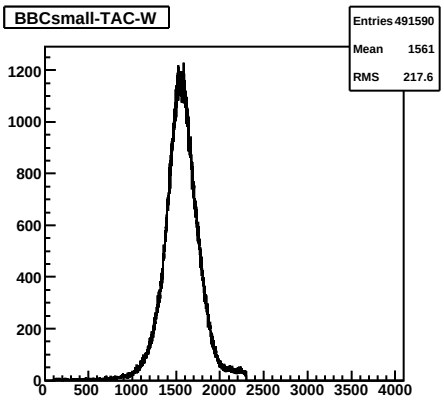

Entries 512319
BBC-L TAC Diff
BCC-S TAC Diff
Entries 512319
BBC-L TAC Diff
VPD TAC Diff
Entries 512319
BBC-L TAC Diff
ZDC TAC Diff
Entries 512319
BBC-S TAC Diff
VPD TAC Diff
Entries 512319
BBC-S TAC Diff
ZDC TAC Diff
Entries 512319
VPD TAC Diff
ZDC TAC Diff

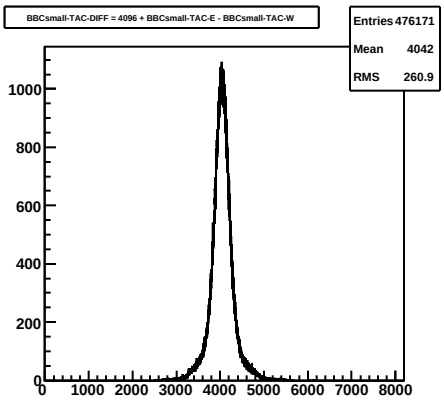

ZDC-TAC-E
Entries 20639
Mean 237.8
RMS 29.77

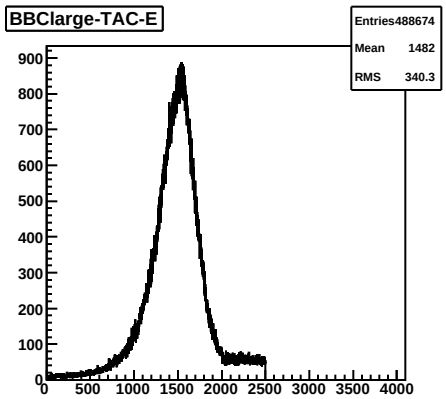

ZDC-TAC-W
Entries 21099
Mean 219.6
RMS 34.26

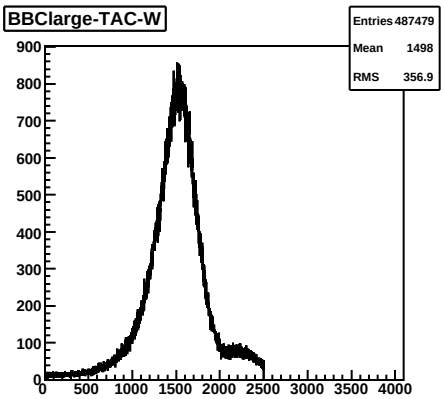

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1656
Mean 521.8
RMS 20.54

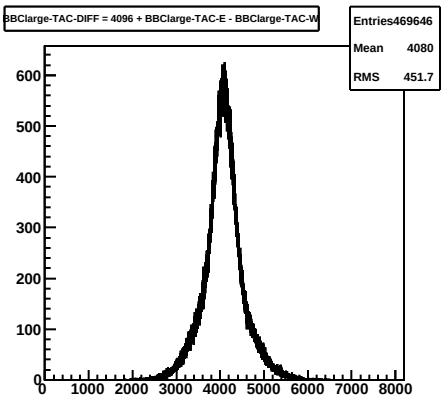

BBCsmall-TAC-E
Entries 490912
Mean 1506
RMS 208.5

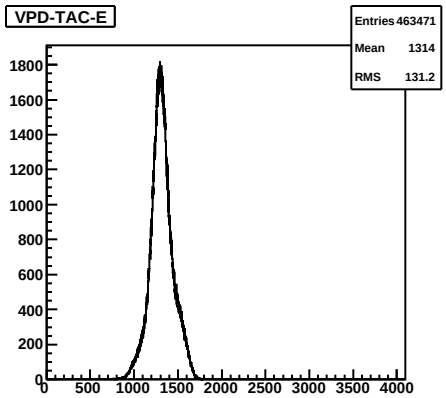

BBCsmall-TAC-W
Entries 491590
Mean 1561
RMS 217.6

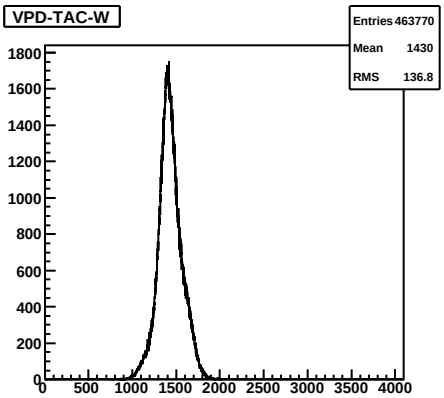

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 476171
Mean 4042
RMS 260.9

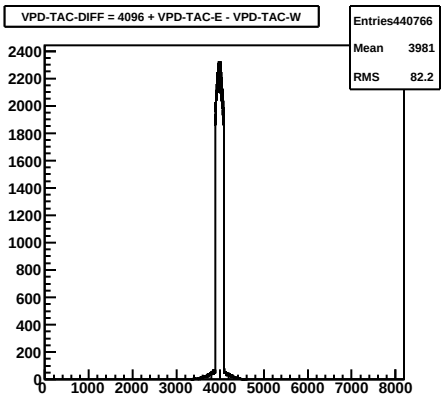

BBClarge-TAC-E
Entries 488674
Mean 1482
RMS 340.3

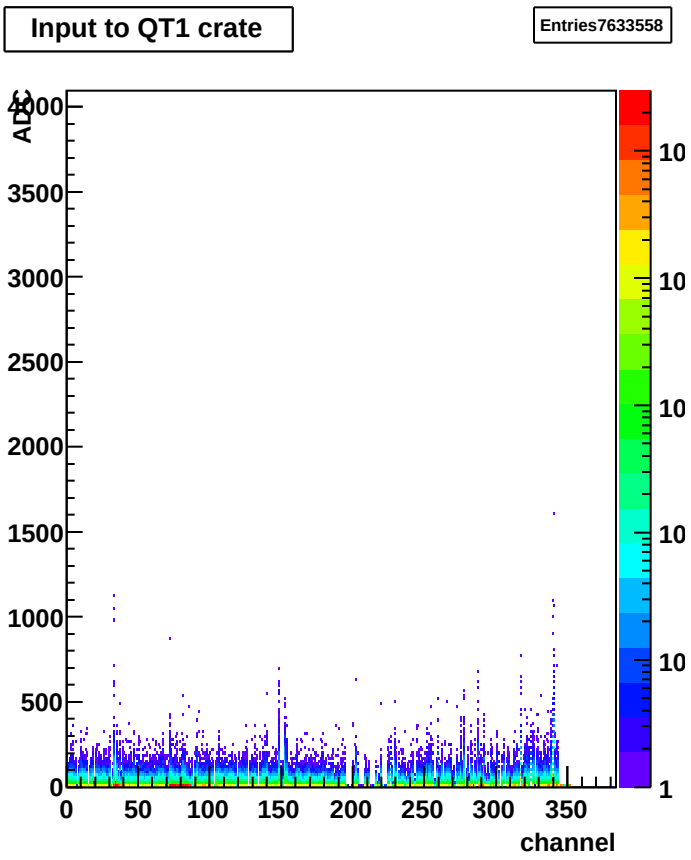

BBClarge-TAC-W
Entries 487479
Mean 1498
RMS 356.9

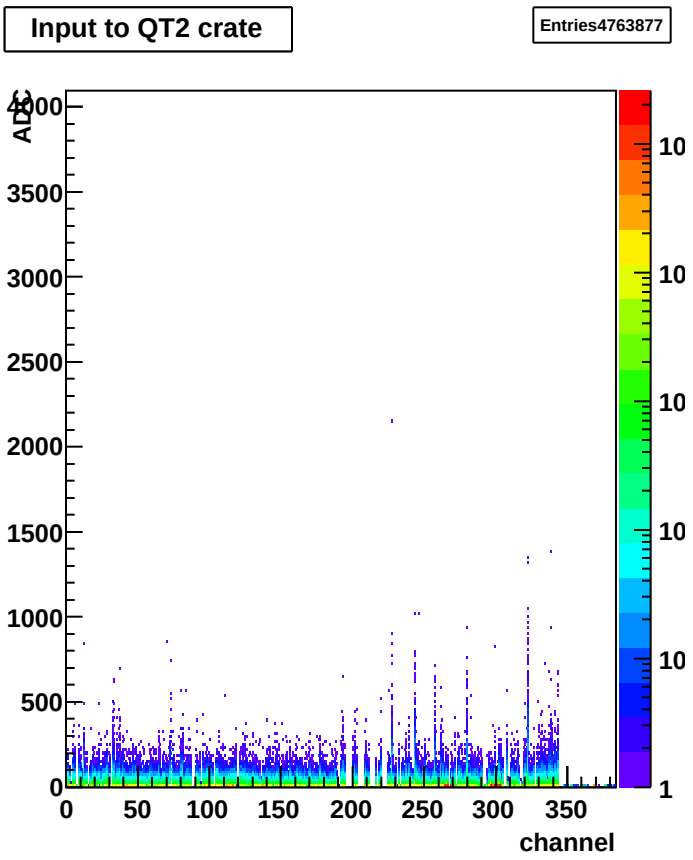

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 469646
Mean 4080
RMS 451.7

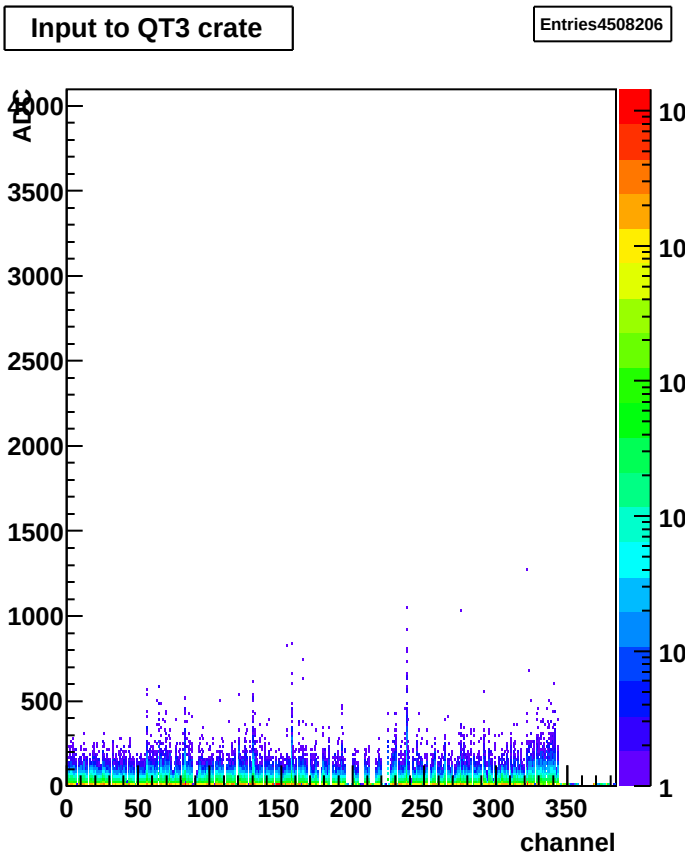

VPD-TAC-E
Entries 463471
Mean 1314
RMS 131.2

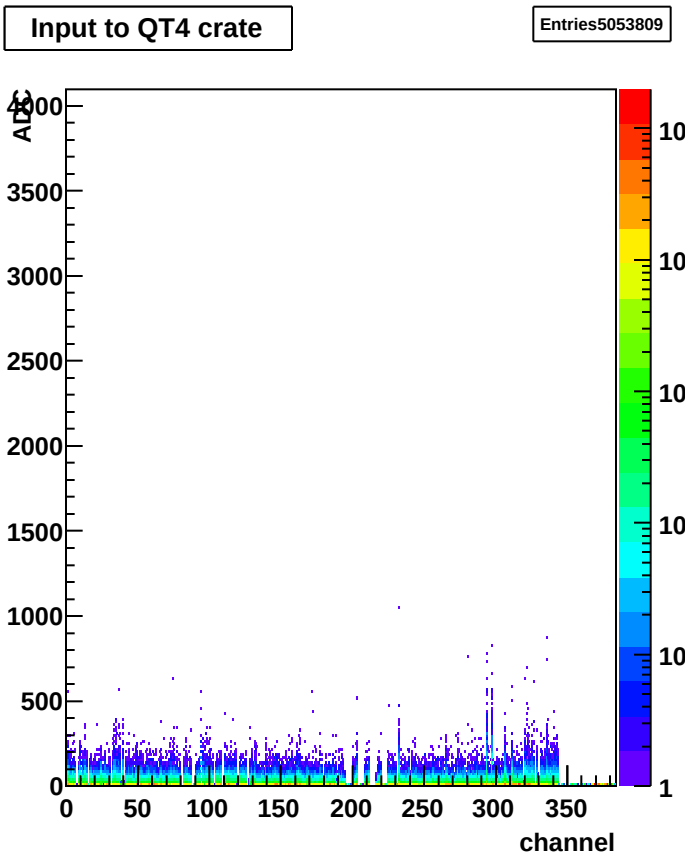

VPD-TAC-W
Entries 463770
Mean 1430
RMS 136.8

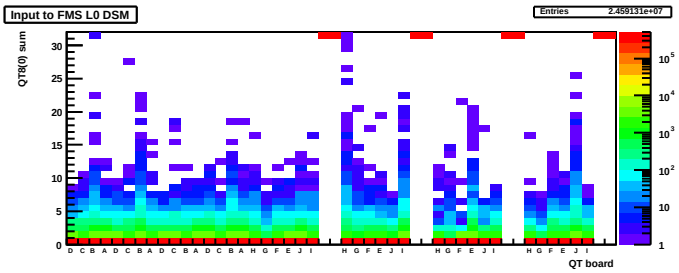

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 440766
Mean 3981
RMS 82.2

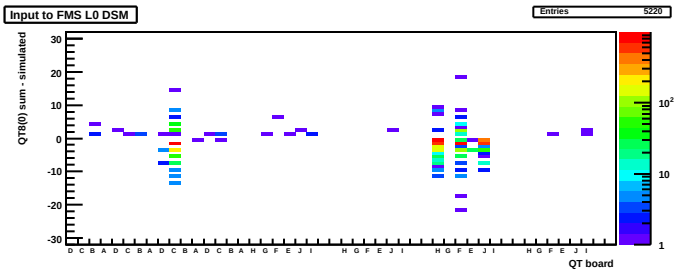

Input to QT1 crate
Entries7633558
ADC
channel

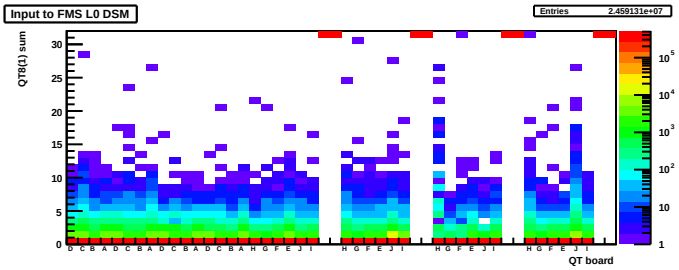

Input to QT2 crate
Entries4763877
ADC
channel

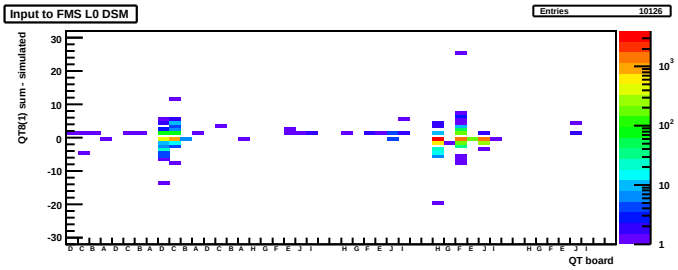

Input to QT3 crate
Entries4508206
ADC
channel

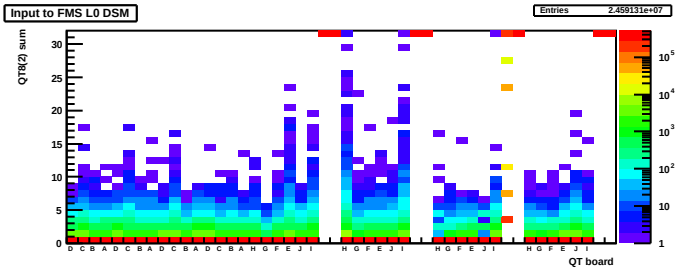

Input to QT4 crate
Entries5053809
ADC
channel

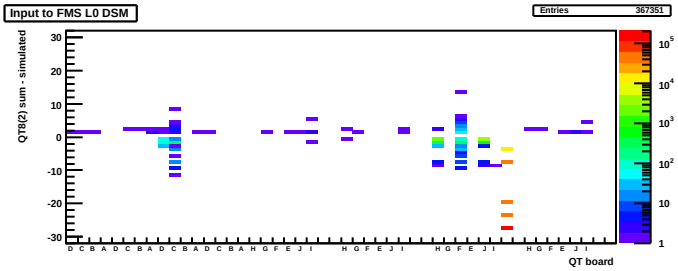

Input to FMS L0 DSM
Entries 2.459131e+07
QT8(0) sum
QT board

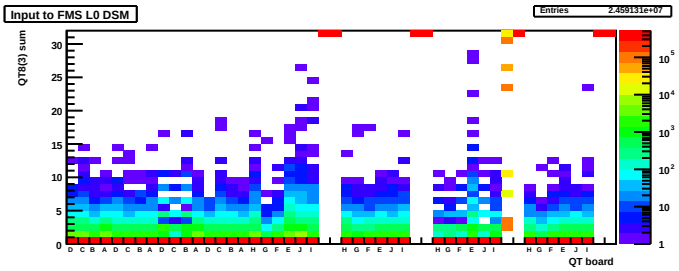

Input to FMS L0 DSM
Entries 5220
QT8(0) sum - simulated
QT board

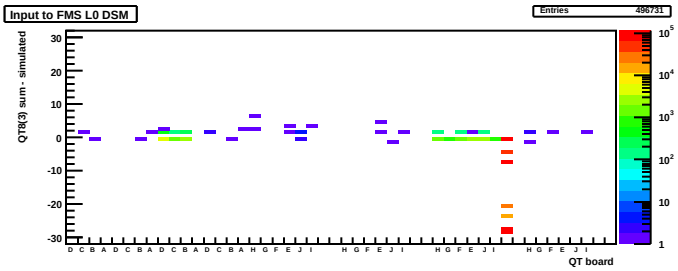

Input to FMS L0 DSM
Entries 2.459131e+07
QT8(1) sum
QT board

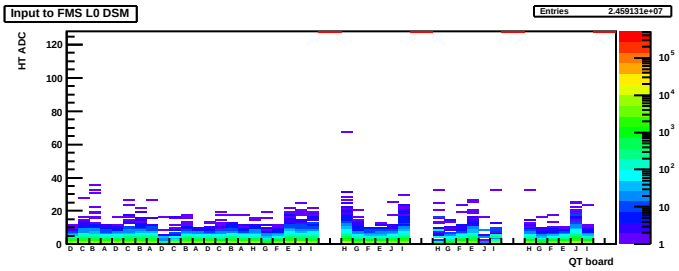

Input to FMS L0 DSM
Entries 10126
QT8(1) sum - simulated
QT board

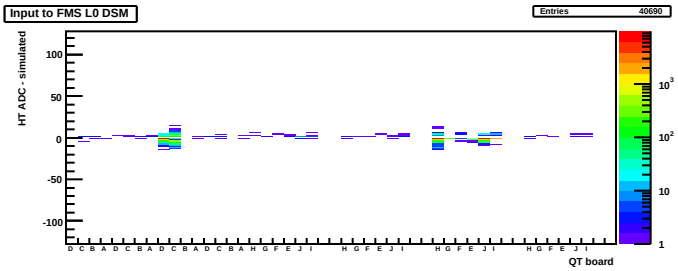

Input to FMS L0 DSM
Entries 2.459131e+07
QT8(2) sum
QT board

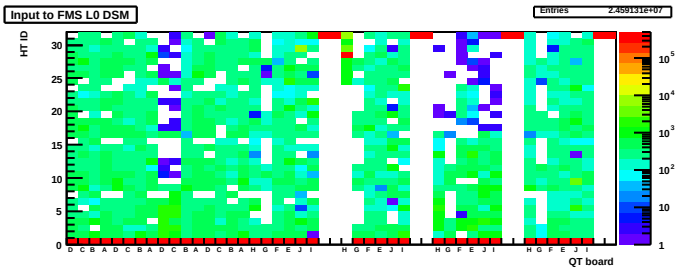

Input to FMS L0 DSM
Entries 367351
QT8(2) sum - simulated
QT board

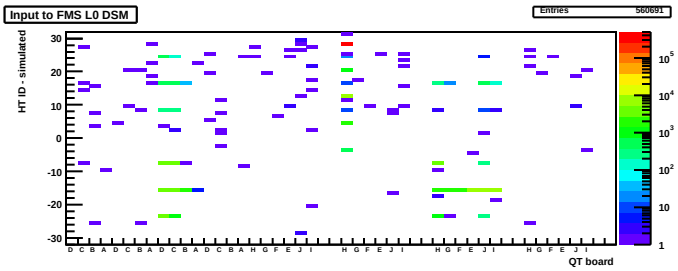

Input to FMS L0 DSM
Entries 2.459131e+07
QT8(3) sum
QT board

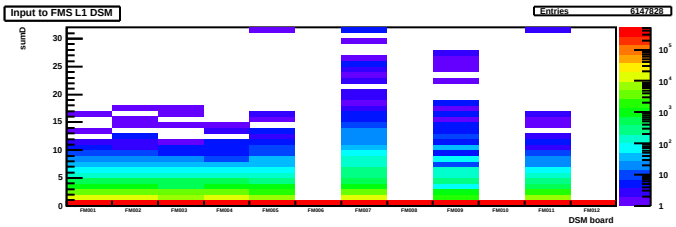

Input to FMS L0 DSM
Entries 496731
QT8(3) sum - simulated
QT board

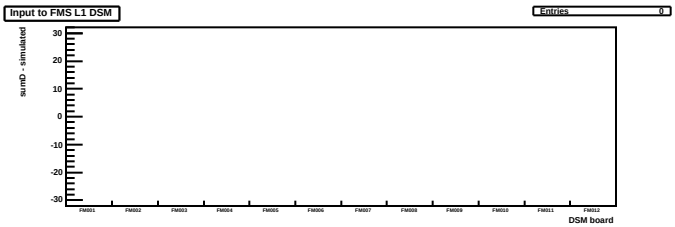

Input to FMS L0 DSM
Entries 2.459131e+07
HT ADC
QT board

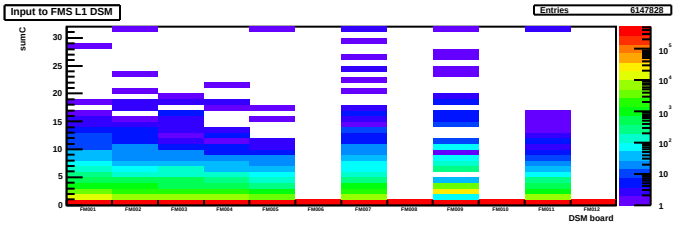

Input to FMS L0 DSM
Entries 40690
HT ADC - simulated
QT board

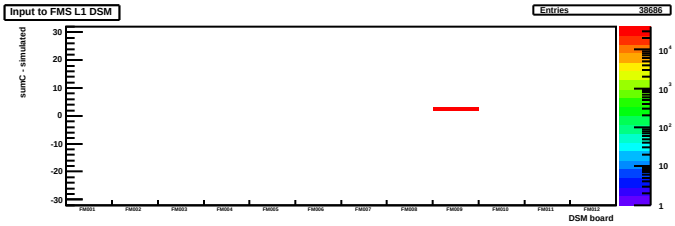

Input to FMS L0 DSM
Entries 2.459131e+07
HT ID
QT board

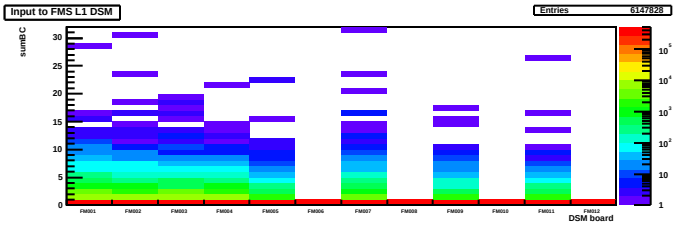

Input to FMS L0 DSM
Entries 560691
HT ID - simulated
QT board

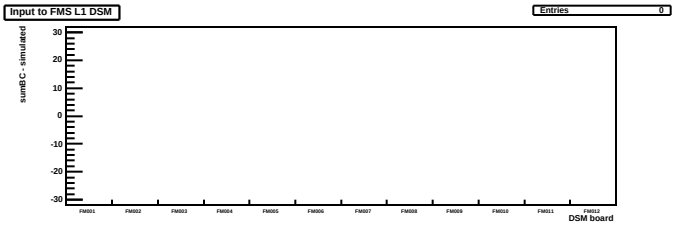

Input to FMS L1 DSM
Entries 6147828
sumD
DSM board

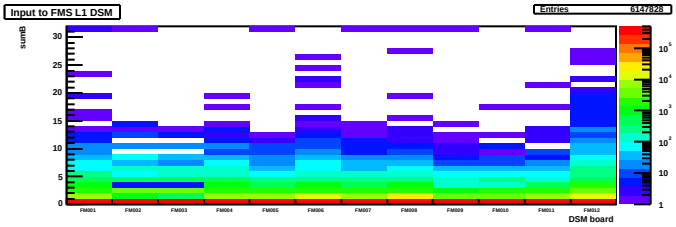

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

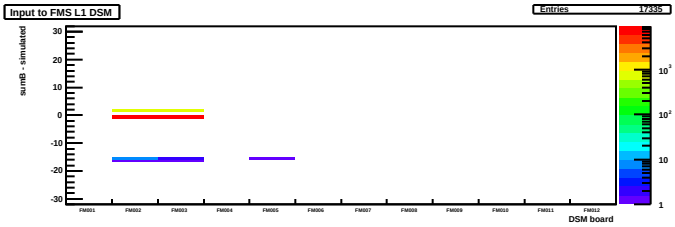

Input to FMS L1 DSM
Entries 6147828
sumC
DSM board

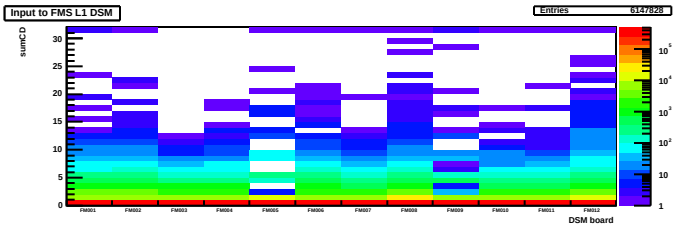

Input to FMS L1 DSM
Entries 38686
sumC - simulated
DSM board

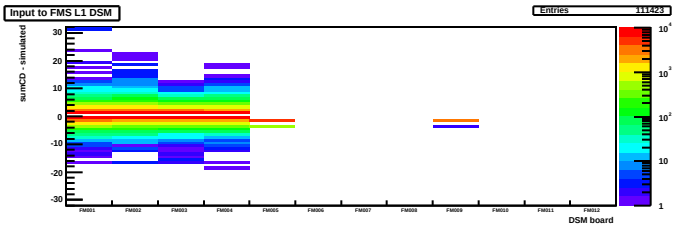

Input to FMS L1 DSM
Entries 6147828
sumBC
DSM board

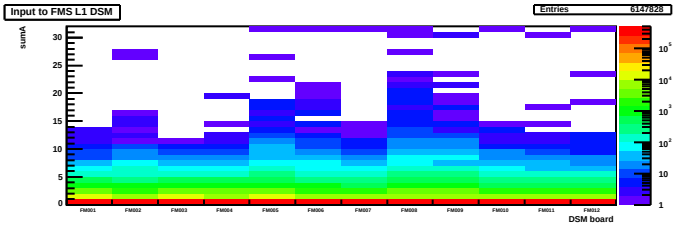

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

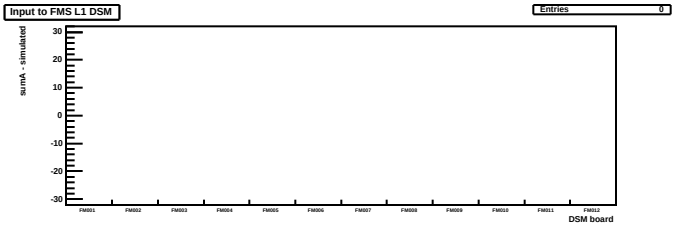

Input to FMS L1 DSM
Entries 6147828
sumB
DSM board

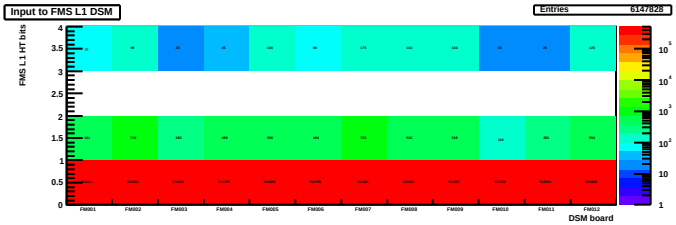

Input to FMS L1 DSM
Entries 17335
sumB - simulated
DSM board

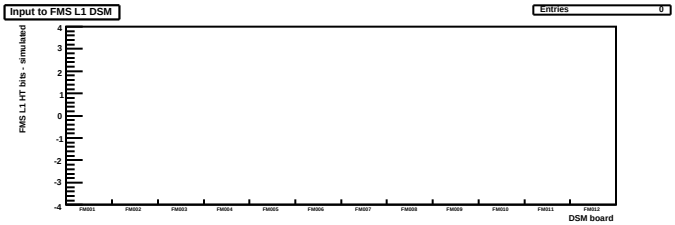

Input to FMS L1 DSM
Entries 6147828
sumCD
DSM board

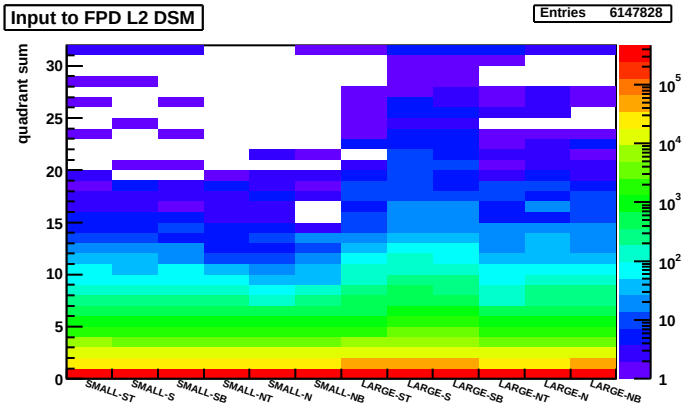

Input to FMS L1 DSM
Entries 111423
sumCD - simulated
DSM board

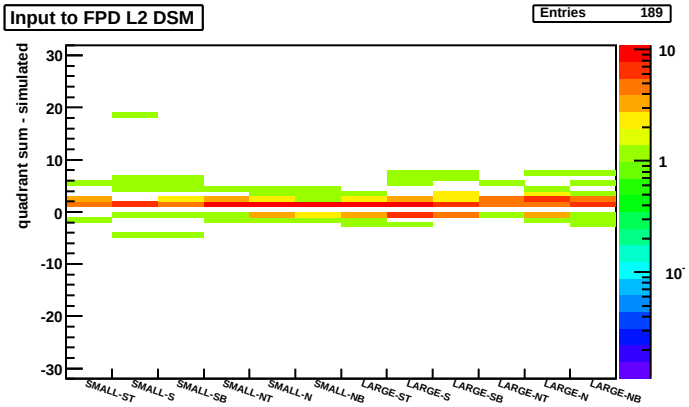

Input to FMS L1 DSM
Entries 6147828
sumA
DSM board

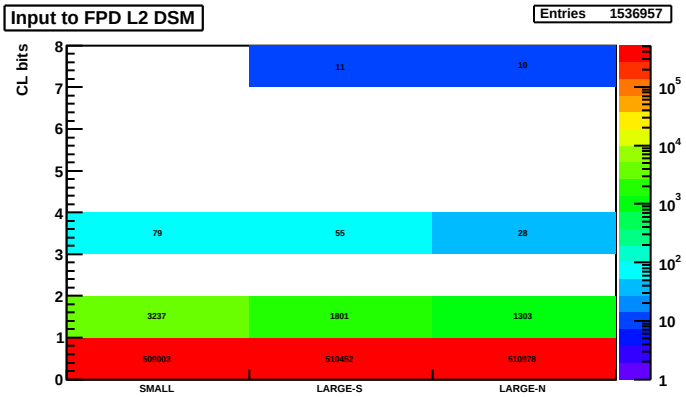

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

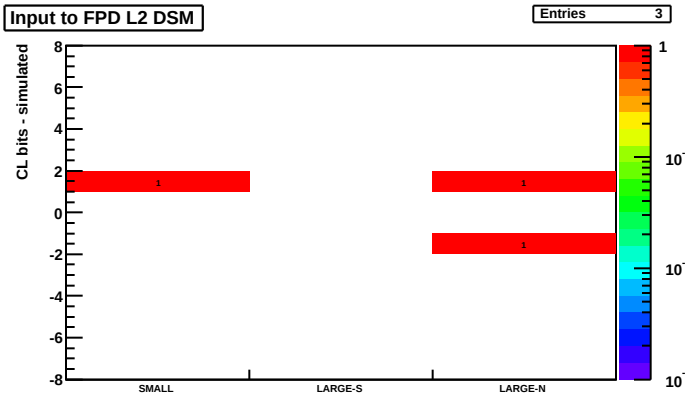

Input to FMS L1 DSM
Entries 6147828
FMS L1 HT bits
DSM board

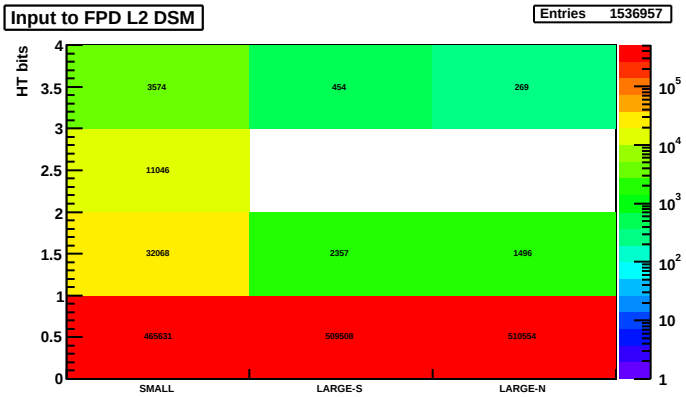

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

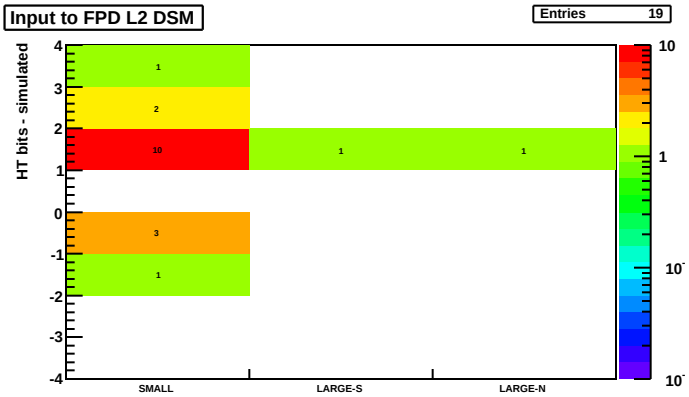

Input to FPD L2 DSM
Entries 6147828
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

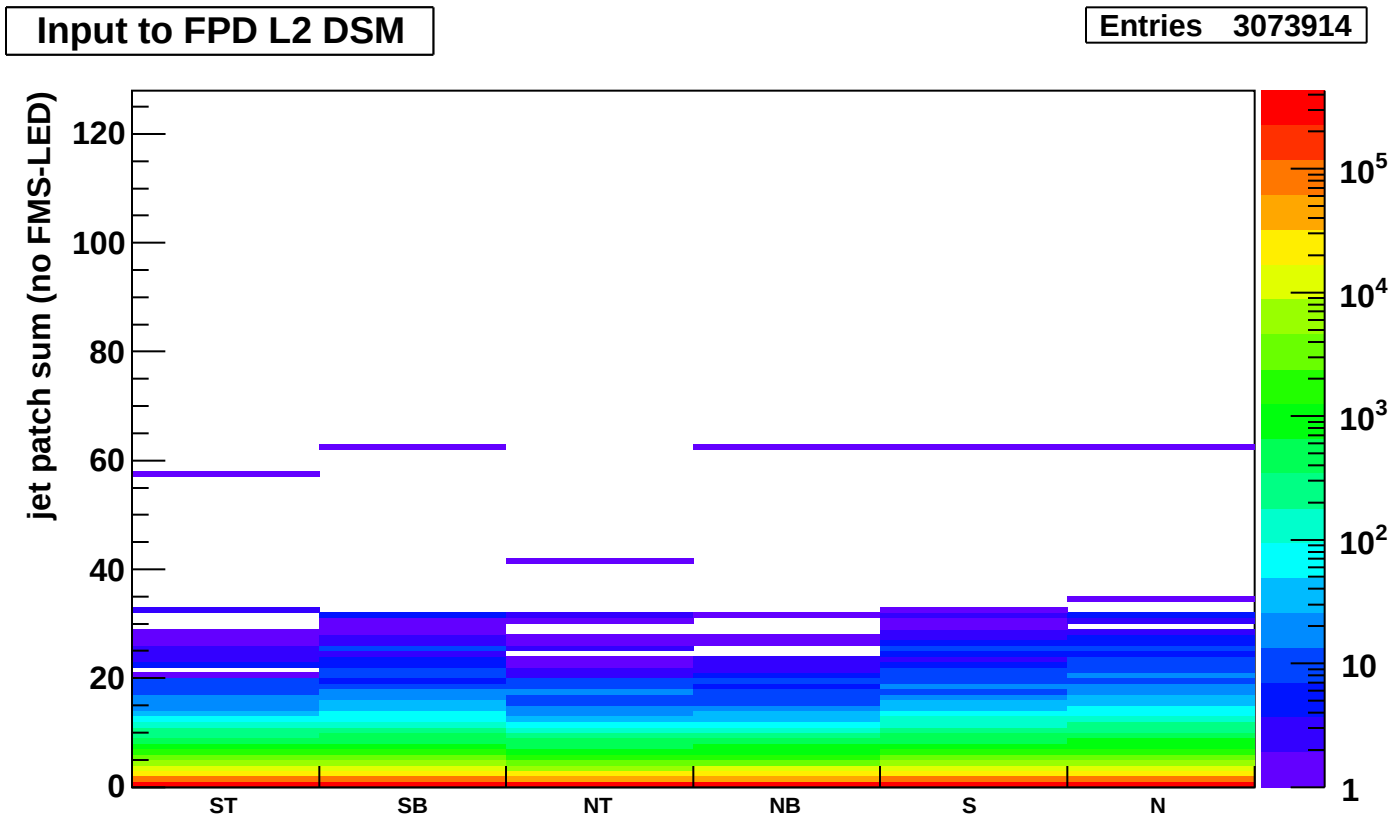

Input to FPD L2 DSM
Entries 189
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

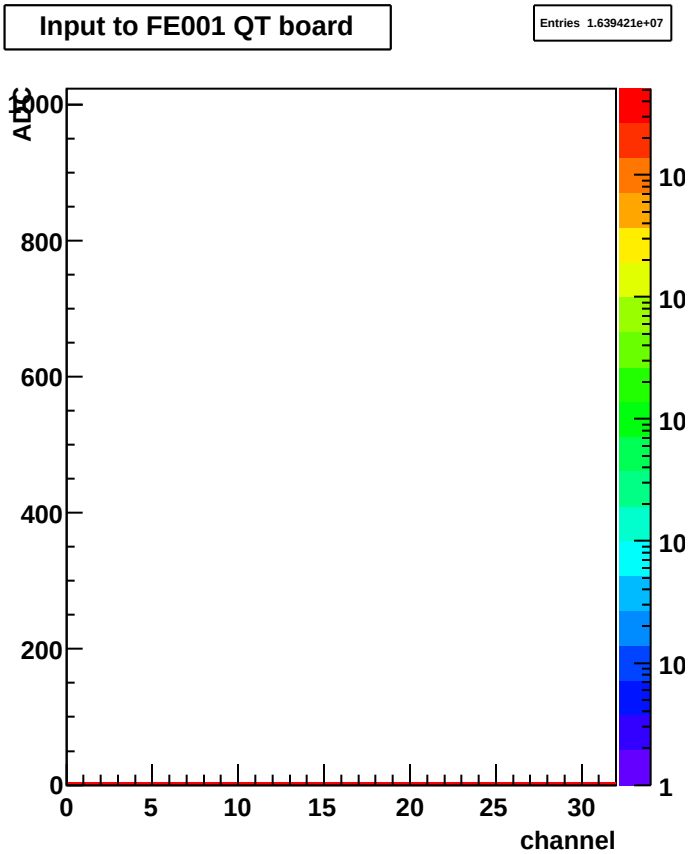

Input to FPD L2 DSM
Entries 1536957
CL bits
11
10
79
55
28
3237
1801
1303
509003
510452
510978
SMALL
LARGE-S
LARGE-N

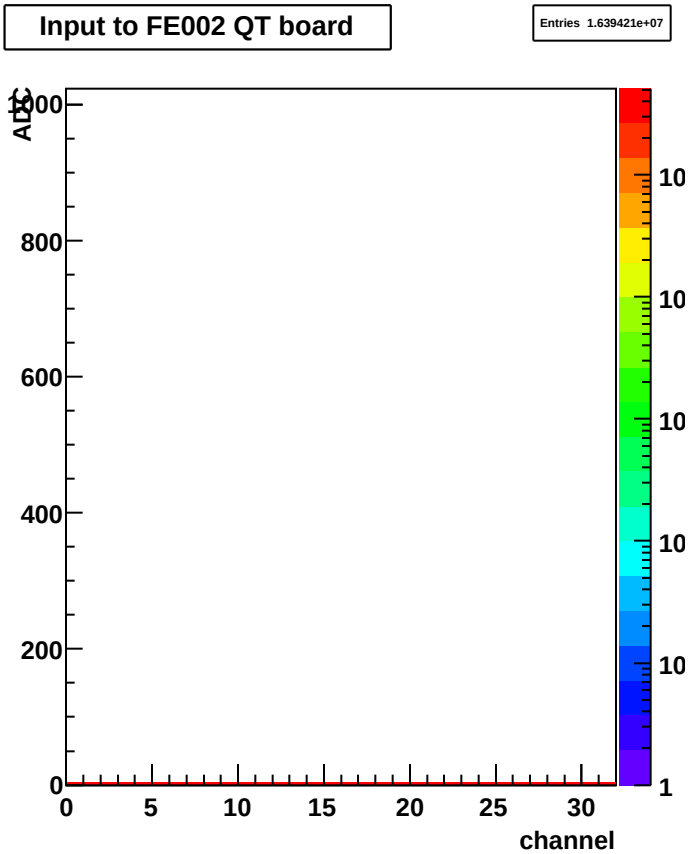

Input to FPD L2 DSM
Entries 3
CL bits - simulated
1
1
1
SMALL
LARGE-S
LARGE-N

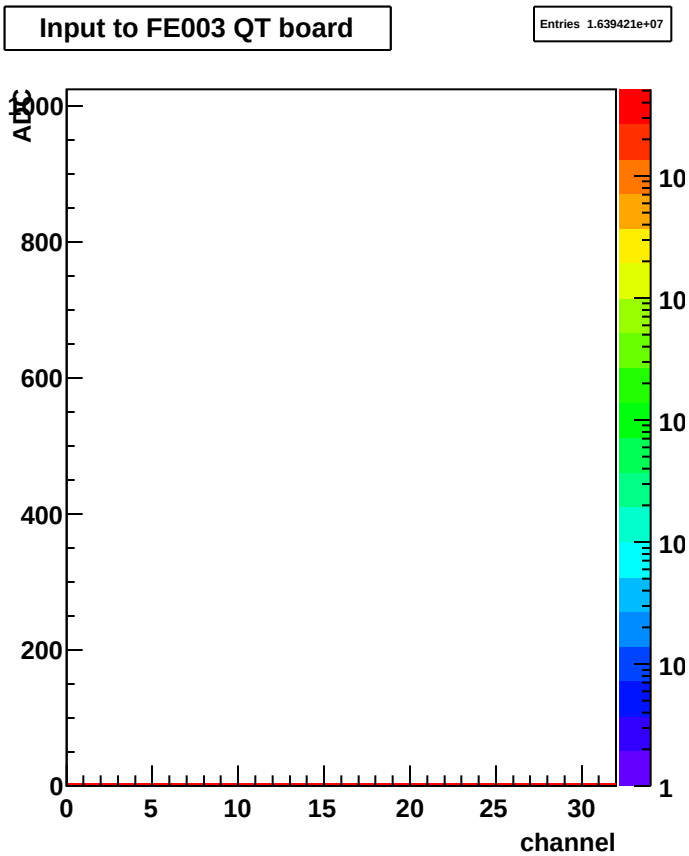

Input to FPD L2 DSM
Entries 1536957
HT bits
3574
454
269
11046
32068
2357
1496
465631
509508
510554
SMALL
LARGE-S
LARGE-N

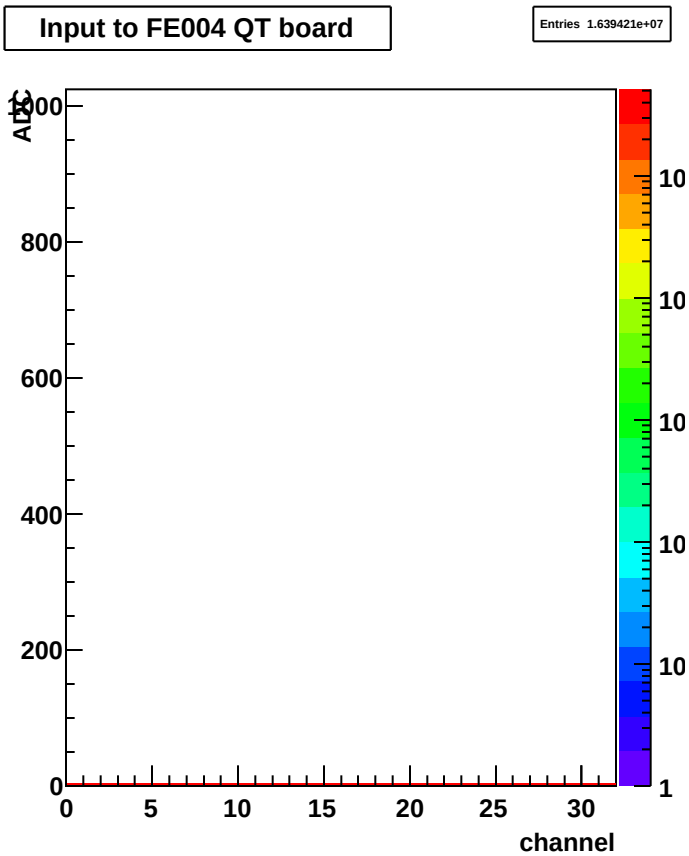

Input to FPD L2 DSM
Entries 19
HT bits - simulated
1
2
10
1
1
3
1
SMALL
LARGE-S
LARGE-N

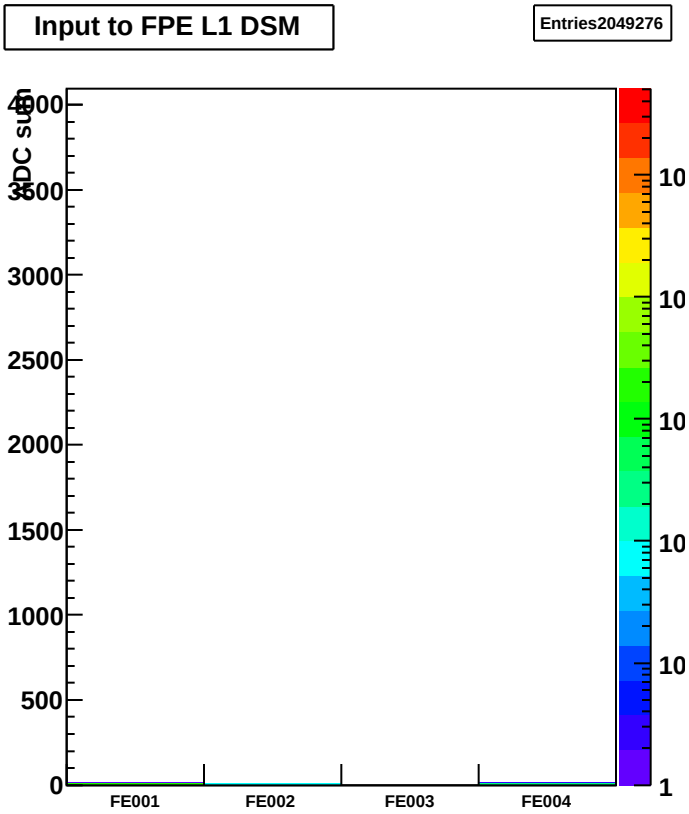

Input to FPD L2 DSM
Entries 3073914
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

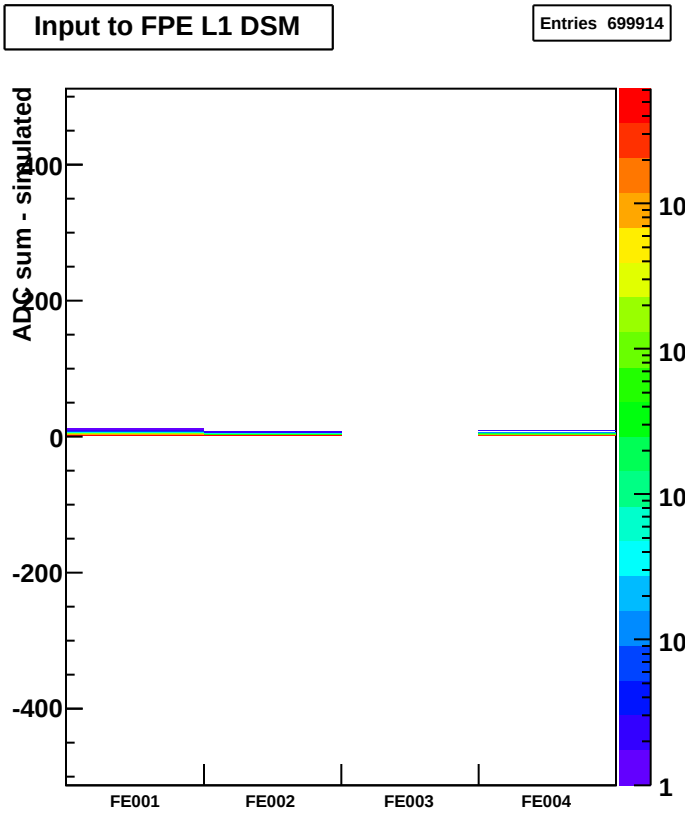

Input to FE001 QT board
Entries 1.639421e+07
ADC
channel

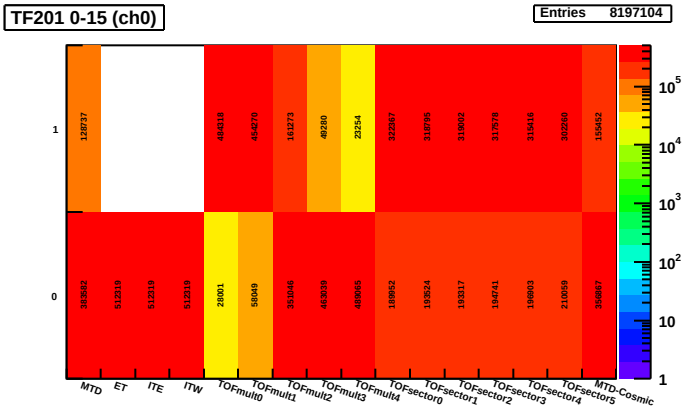

Input to FE002 QT board
Entries 1.639421e+07
ADC
channel

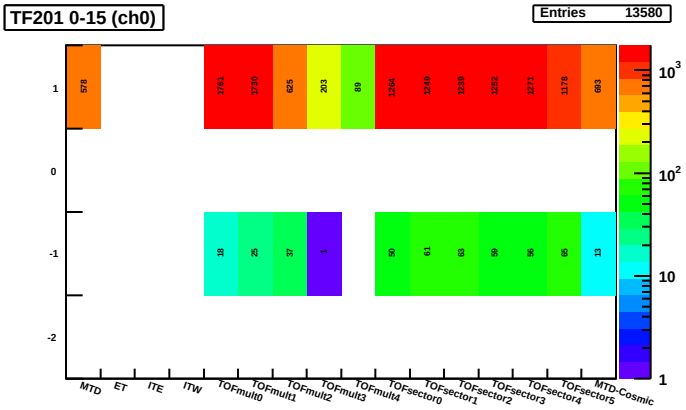

Input to FE003 QT board
Entries 1.639421e+07
ADC
channel

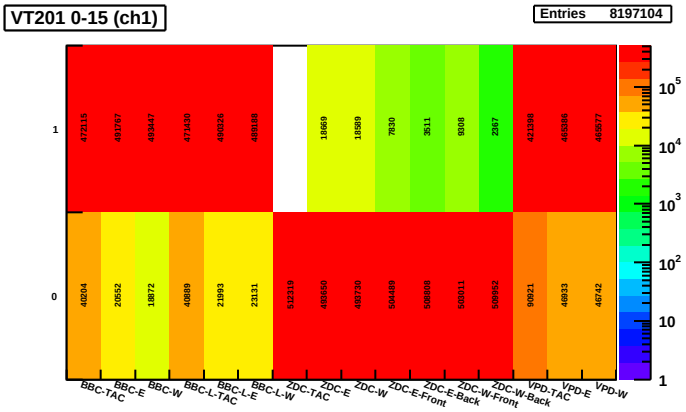

Input to FE004 QT board
Entries 1.639421e+07
ADC
channel

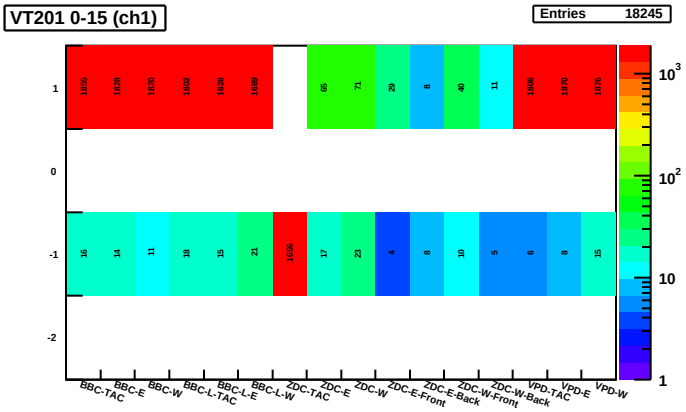

Input to FPE L1 DSM
Entries2049276
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries 699914
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1


TF201 0-15 (ch0)
Entries 8197104
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 13580
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 8197104
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 18245
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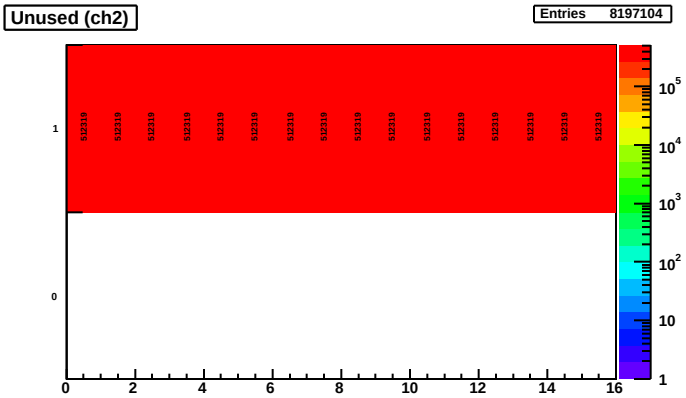
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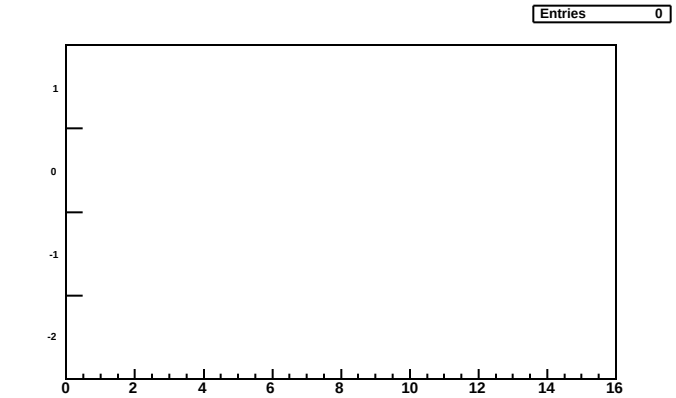
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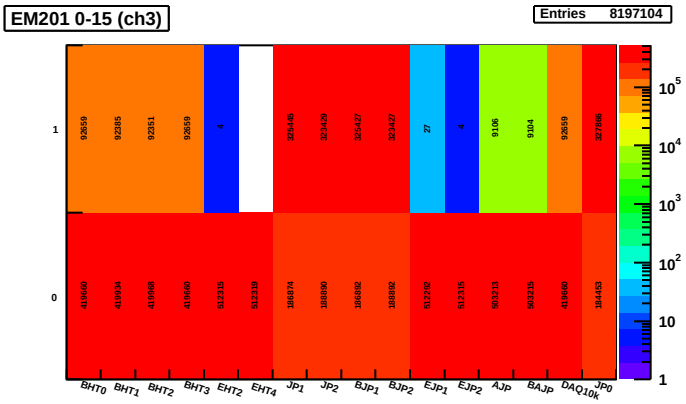
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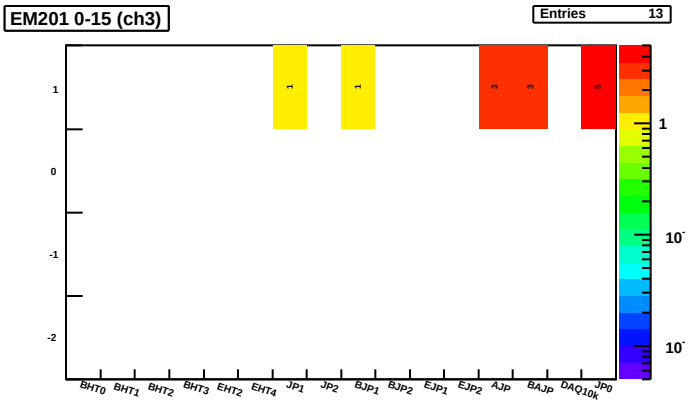
EM201 0-15 (ch3)
Entries 13
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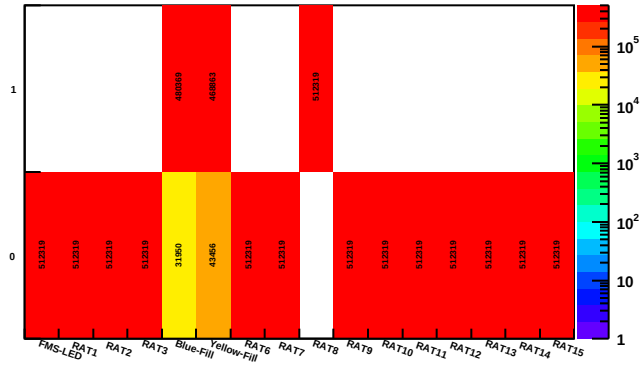
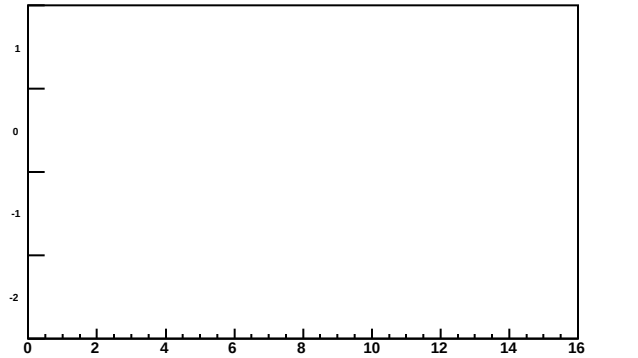
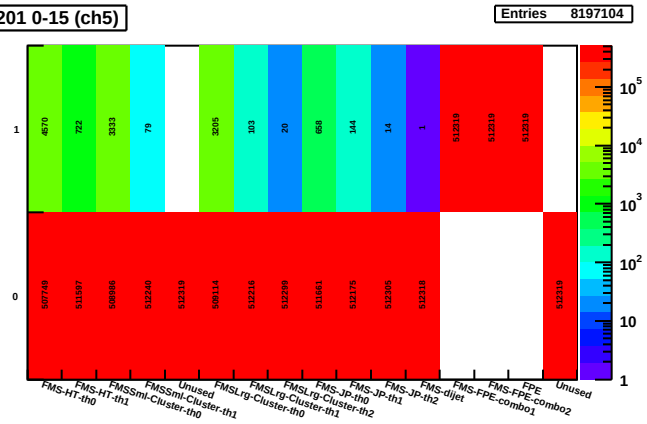
RAT board (ch4)

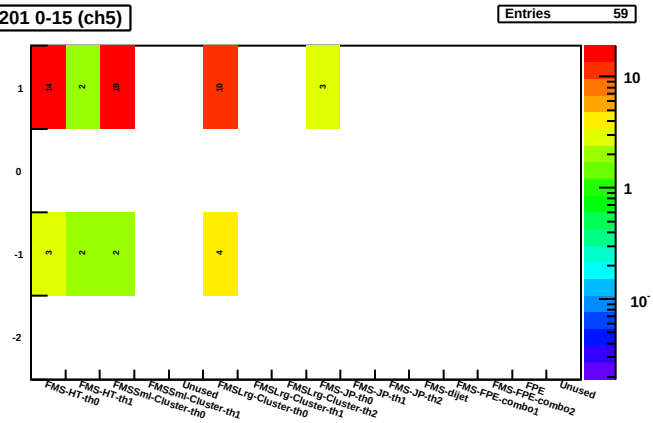




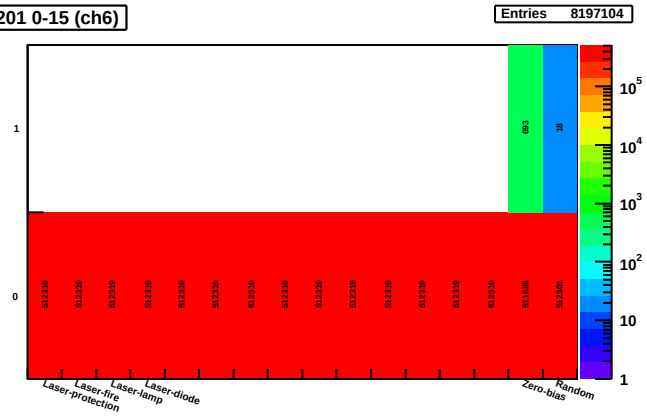
FP201 0-15 (ch5)

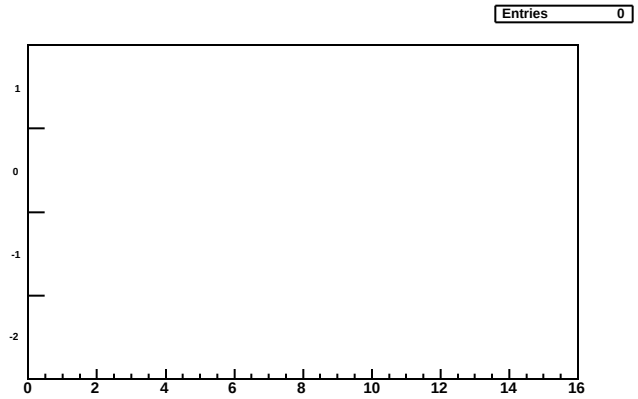
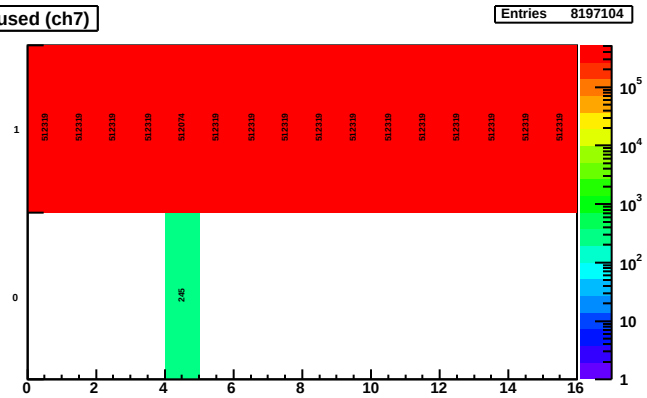
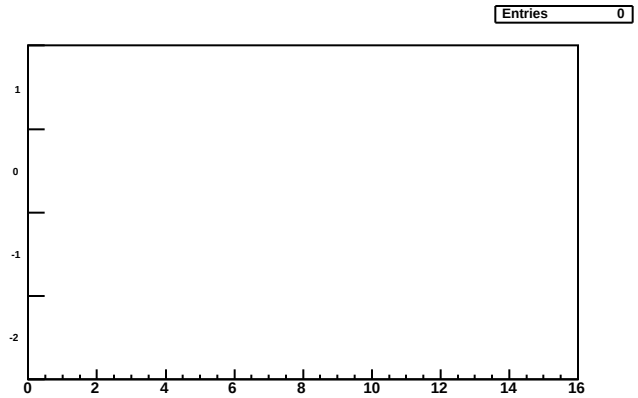


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)