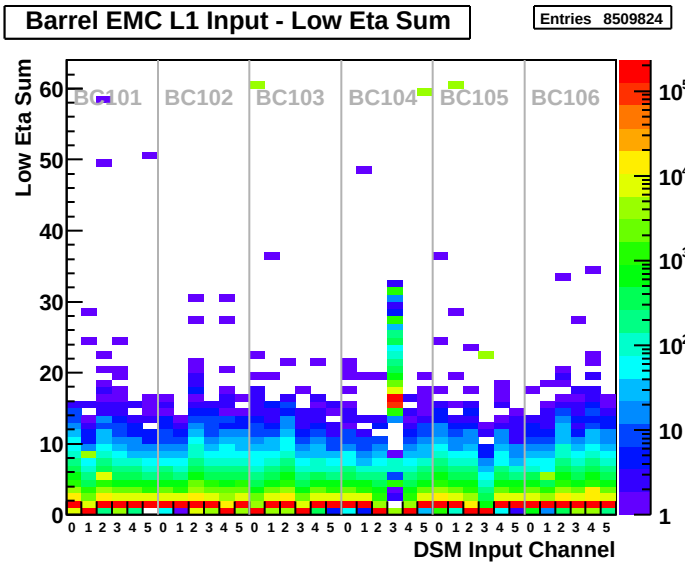
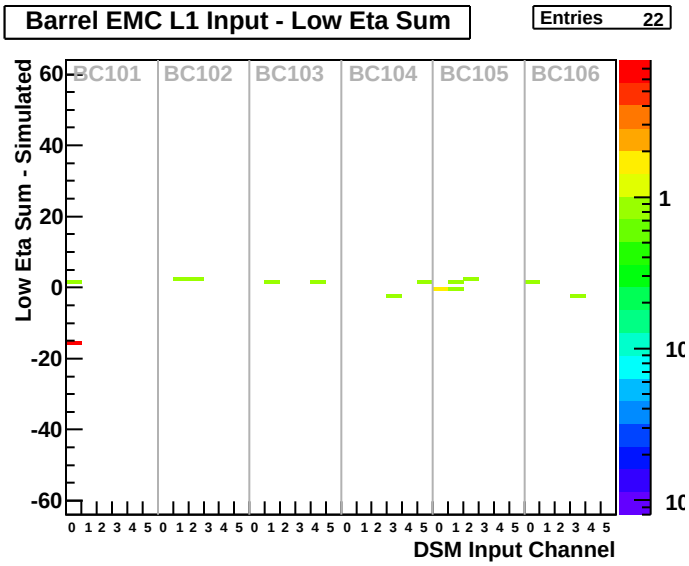
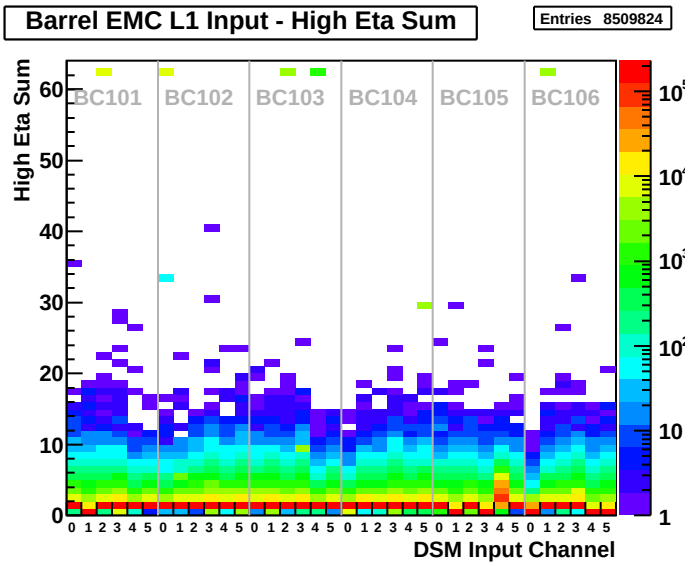
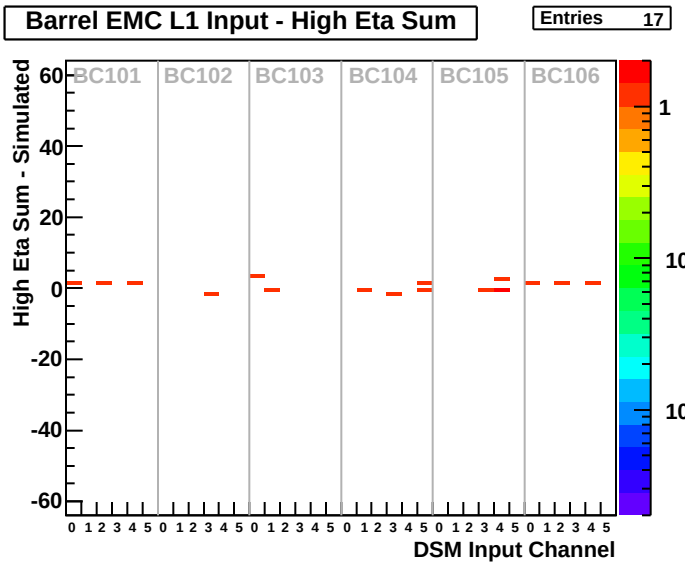
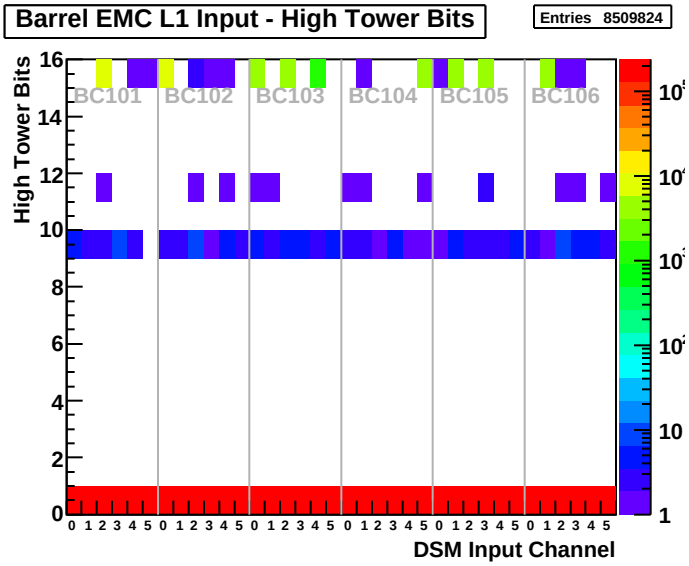
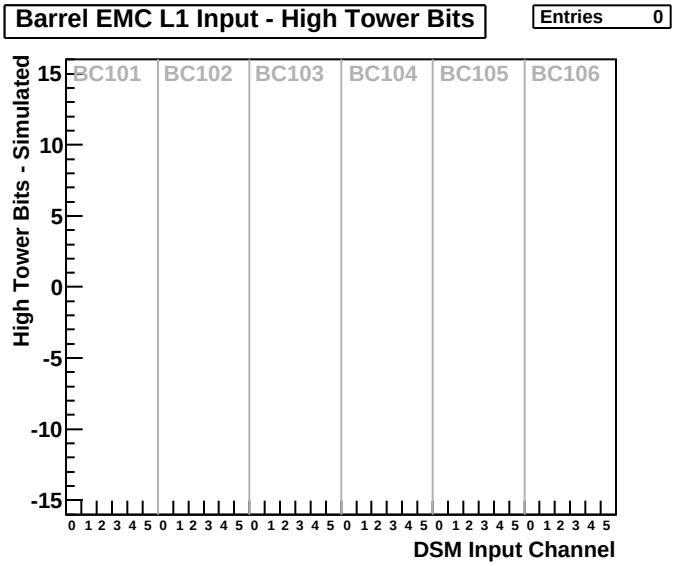

Barrel EMC L1 Input - Low Eta Sum
Entries 8509824
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

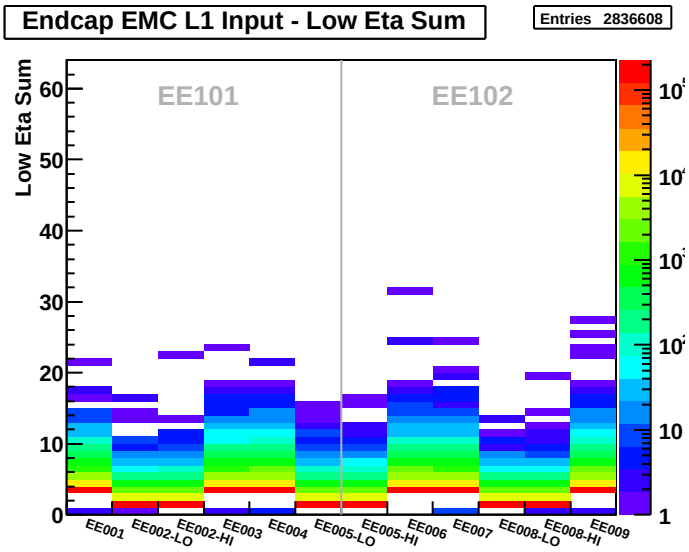

Barrel EMC L1 Input - Low Eta Sum
Entries 22
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

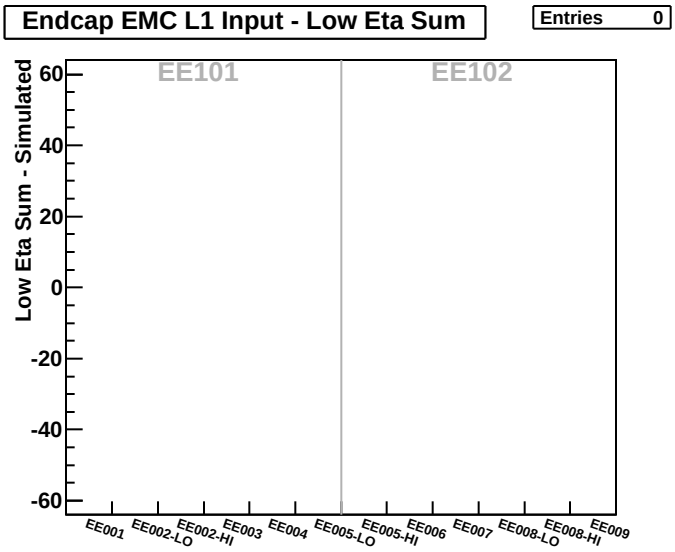

Barrel EMC L1 Input - High Eta Sum
Entries 8509824
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

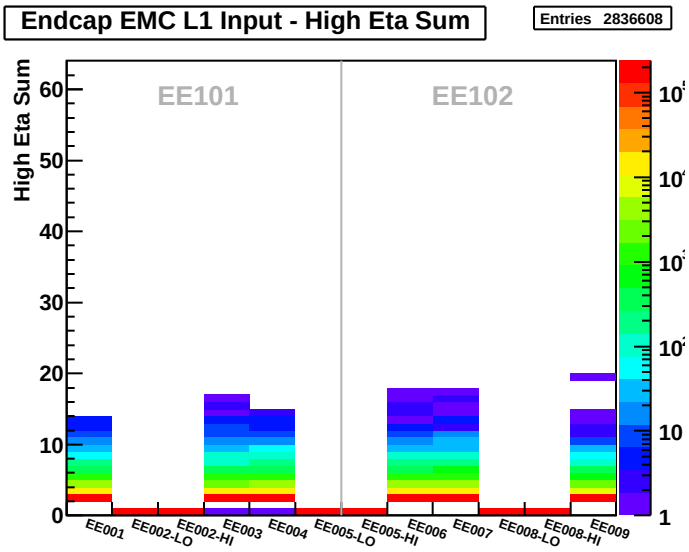

Barrel EMC L1 Input - High Eta Sum
Entries 17
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

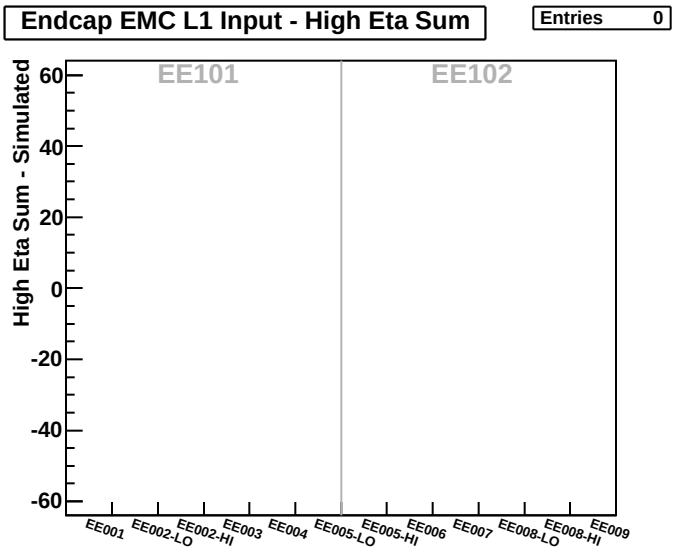

Barrel EMC L1 Input - High Tower Bits
Entries 8509824
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

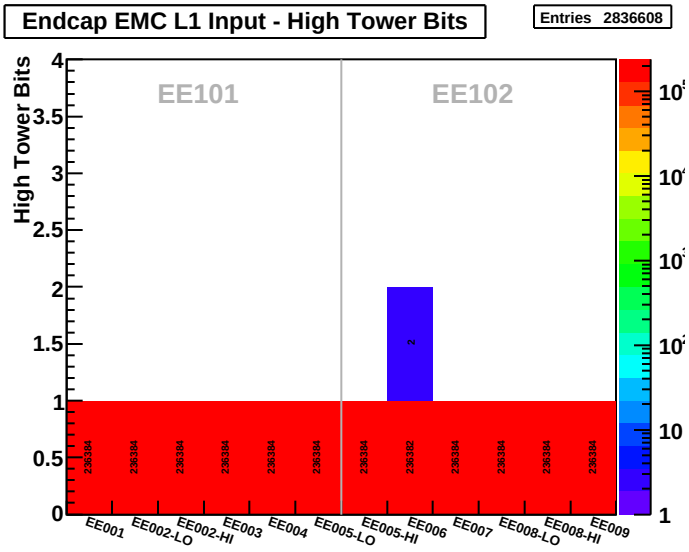

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

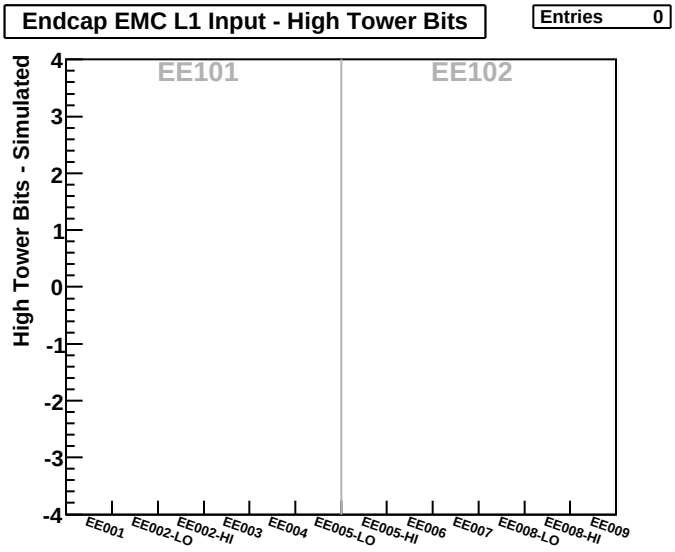

Endcap EMC L1 Input - Low Eta Sum
Entries 2836608
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

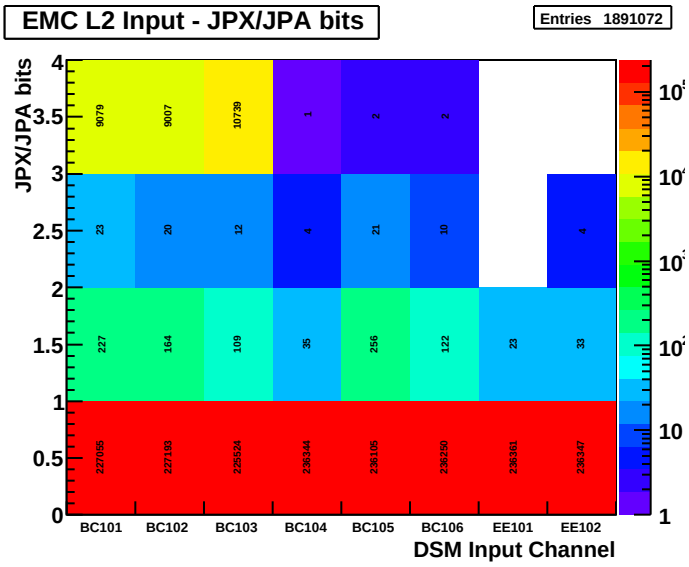

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

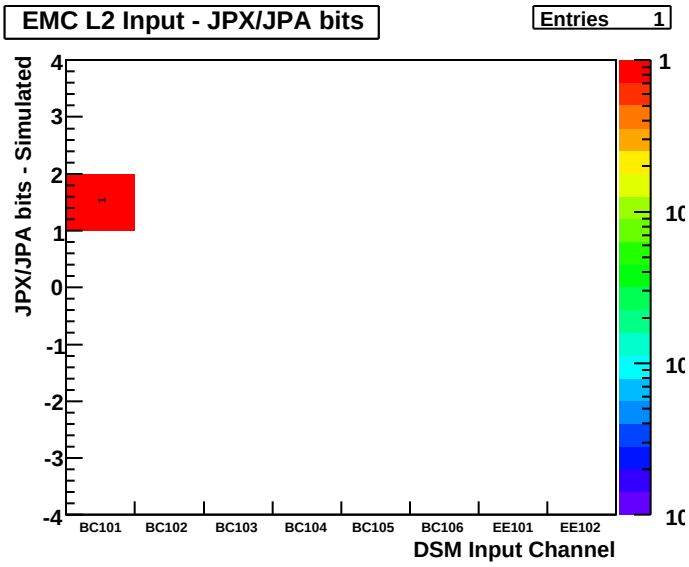

Endcap EMC L1 Input - High Eta Sum
Entries 2836608
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

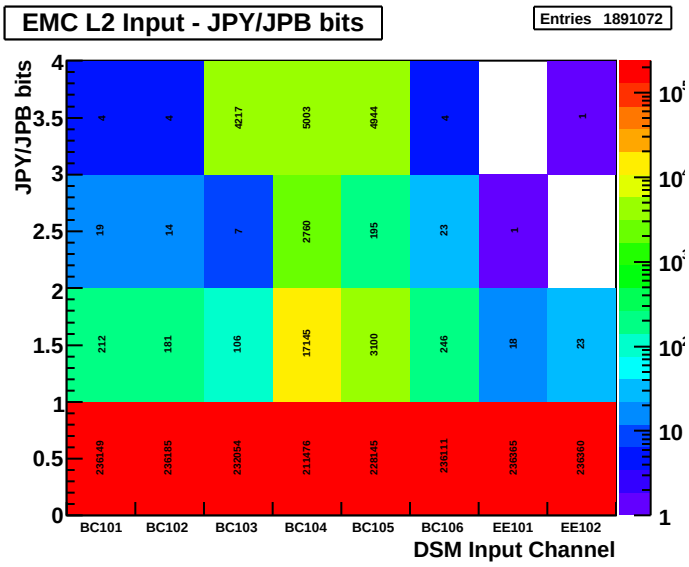

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

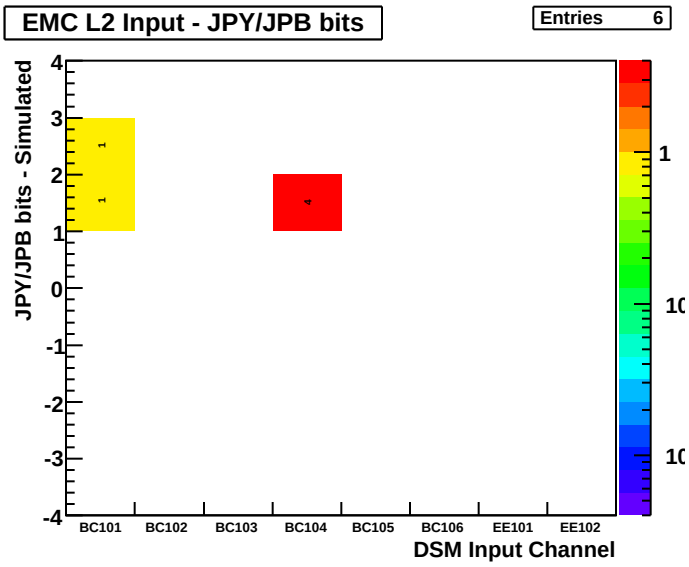

Endcap EMC L1 Input - High Tower Bits
Entries 2836608
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

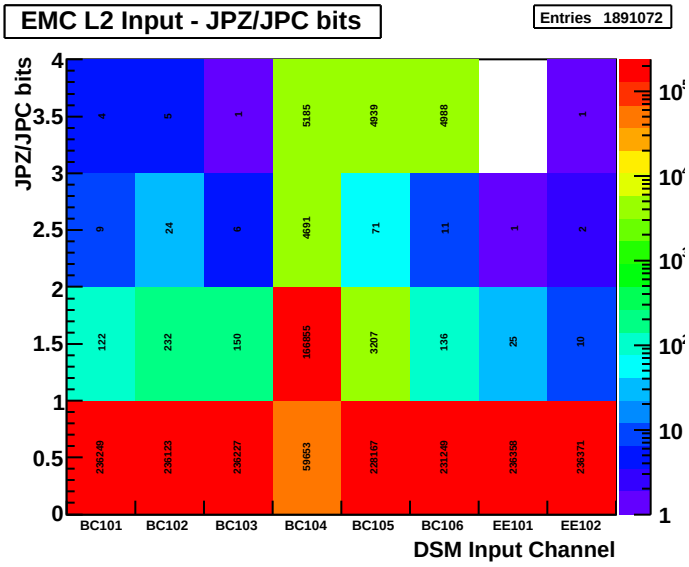

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

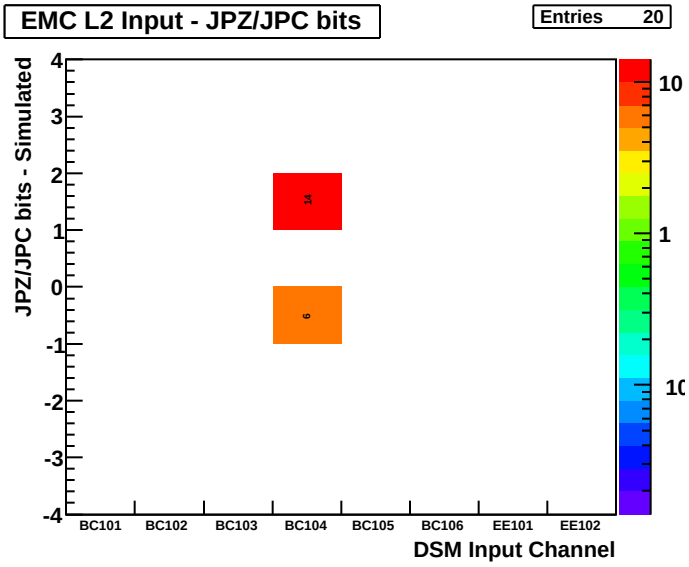

EMC L2 Input - JPX/JPA bits
Entries 1891072
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9079 9007 10739 1 2 2
23 20 12 4 21 10 4
227 164 109 35 256 122 23 33
227055 227193 225524 238344 235105 235250 235361 235347

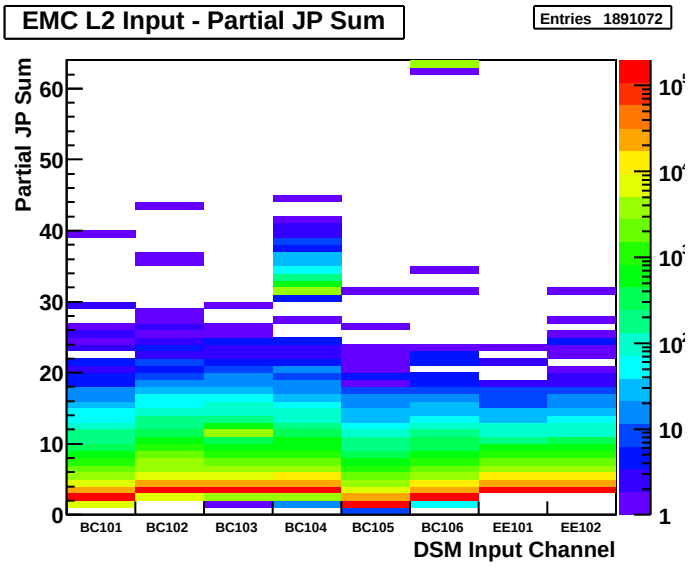

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1

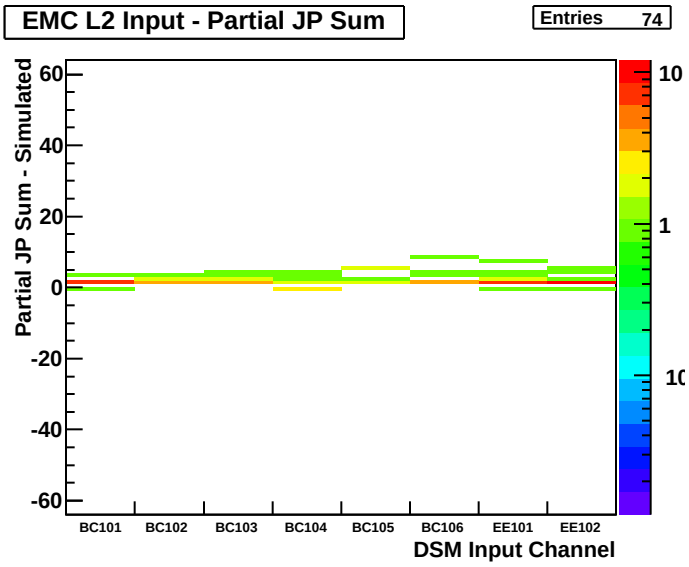

EMC L2 Input - JPY/JPB bits
Entries 1891072
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4 4 4217 5003 4944 4 1
19 14 7 2760 195 23 1
212 181 106 17145 3100 246 18 23
236149 236185 233054 211476 229145 235111 235365 235360

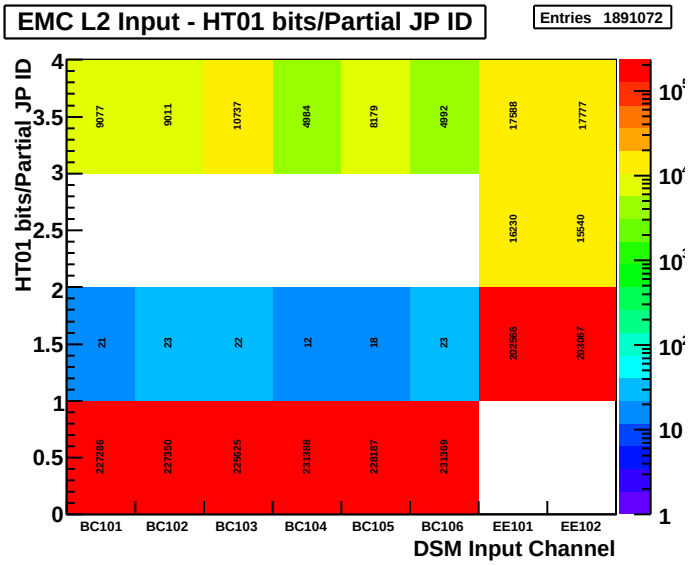

EMC L2 Input - JPY/JPB bits
Entries 6
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1
4

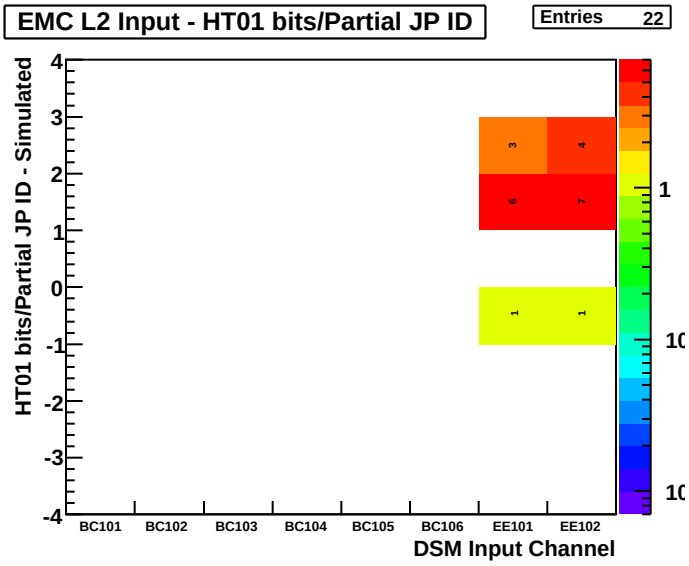

EMC L2 Input - JPZ/JPC bits
Entries 1891072
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4 5 1 5185 4939 4988 1
9 24 6 4691 71 11 1 2
122 232 150 166855 3207 136 25 10
236249 236123 236227 59653 228167 231249 236358 236371

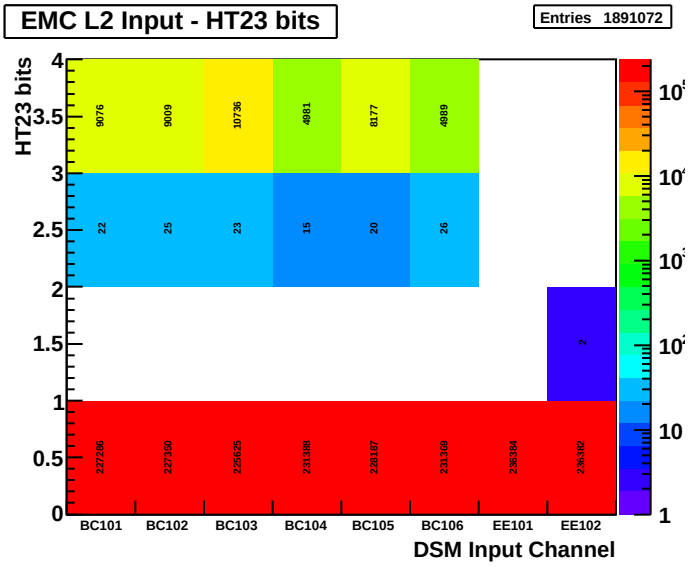

EMC L2 Input - JPZ/JPC bits
Entries 20
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
14
6

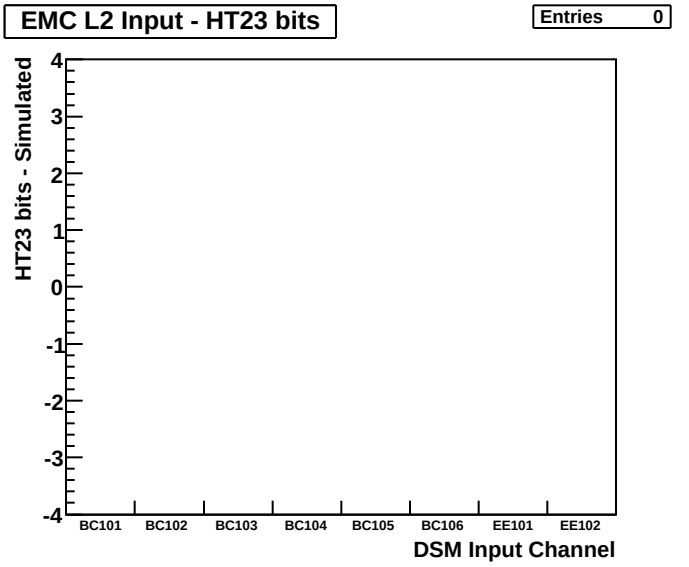

EMC L2 Input - Partial JP Sum
Entries 1891072
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

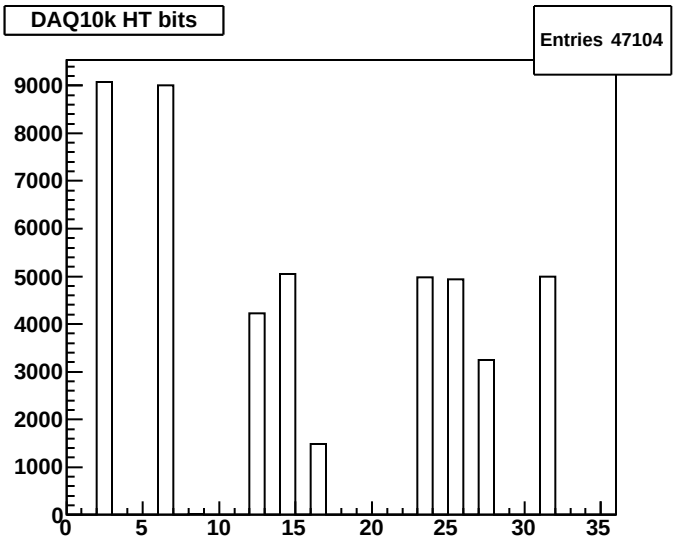

EMC L2 Input - Partial JP Sum
Entries 74
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

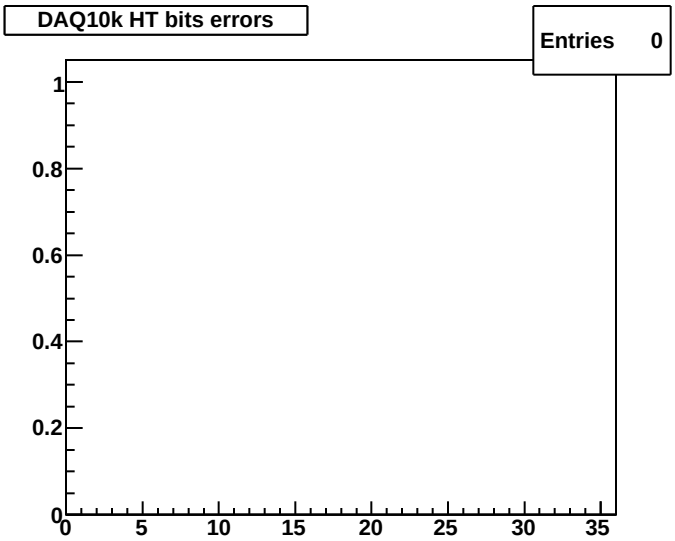

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1891072
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

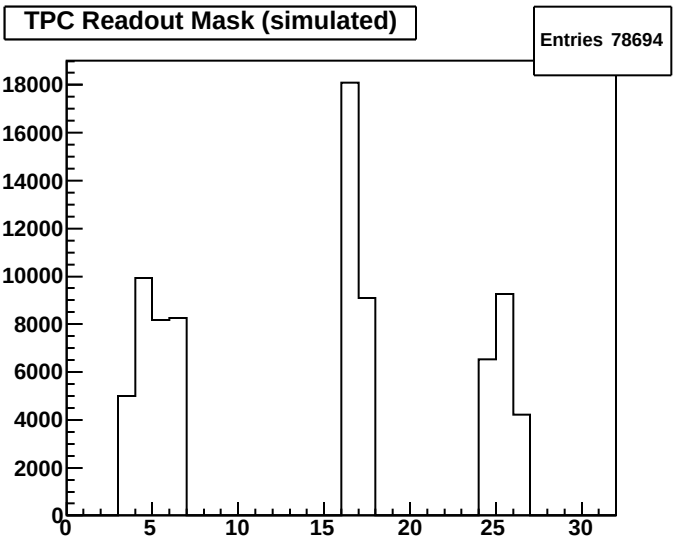

EMC L2 Input - HT01 bits/Partial JP ID
Entries 22
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

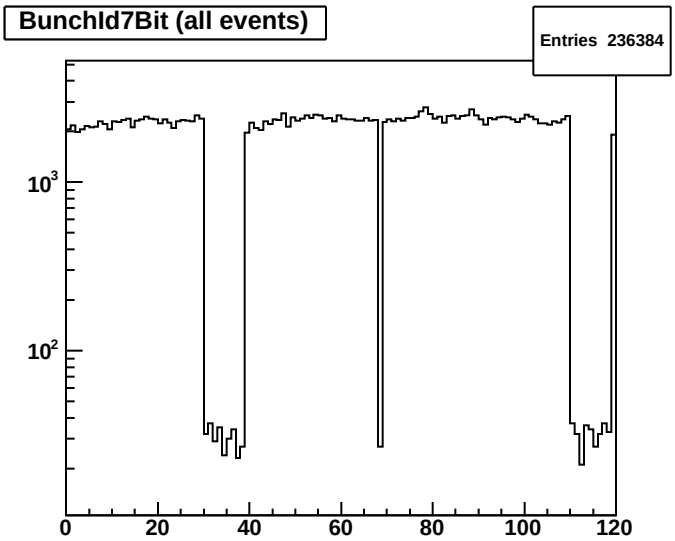

EMC L2 Input - HT23 bits
Entries 1891072
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

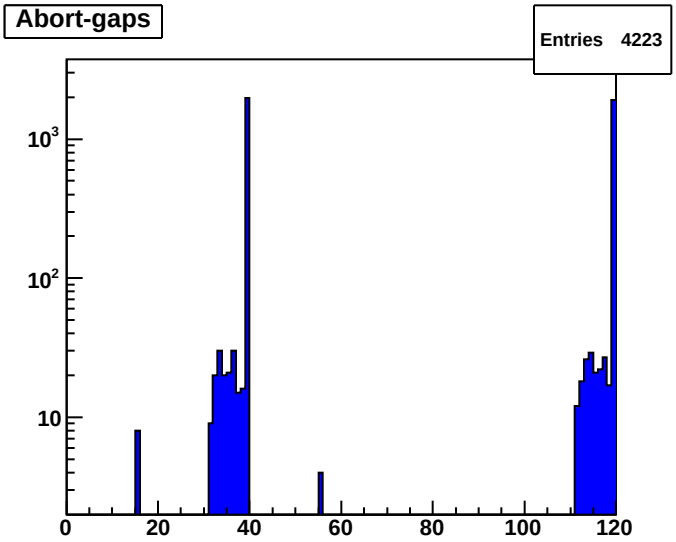

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

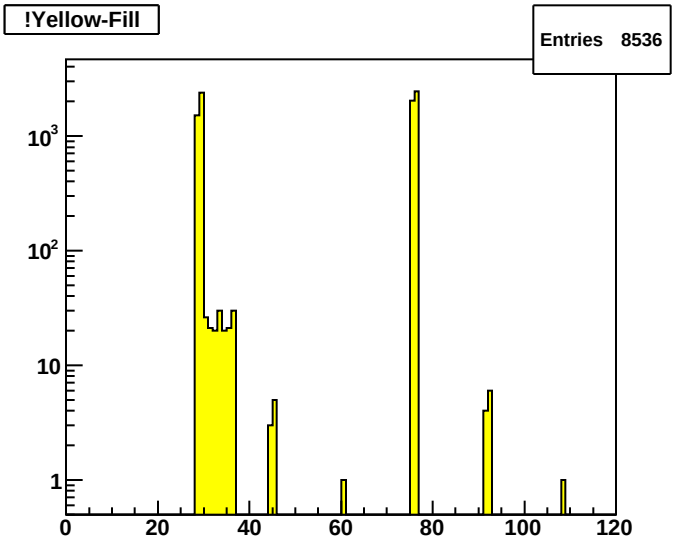

DAQ10k HT bits
Entries 47104

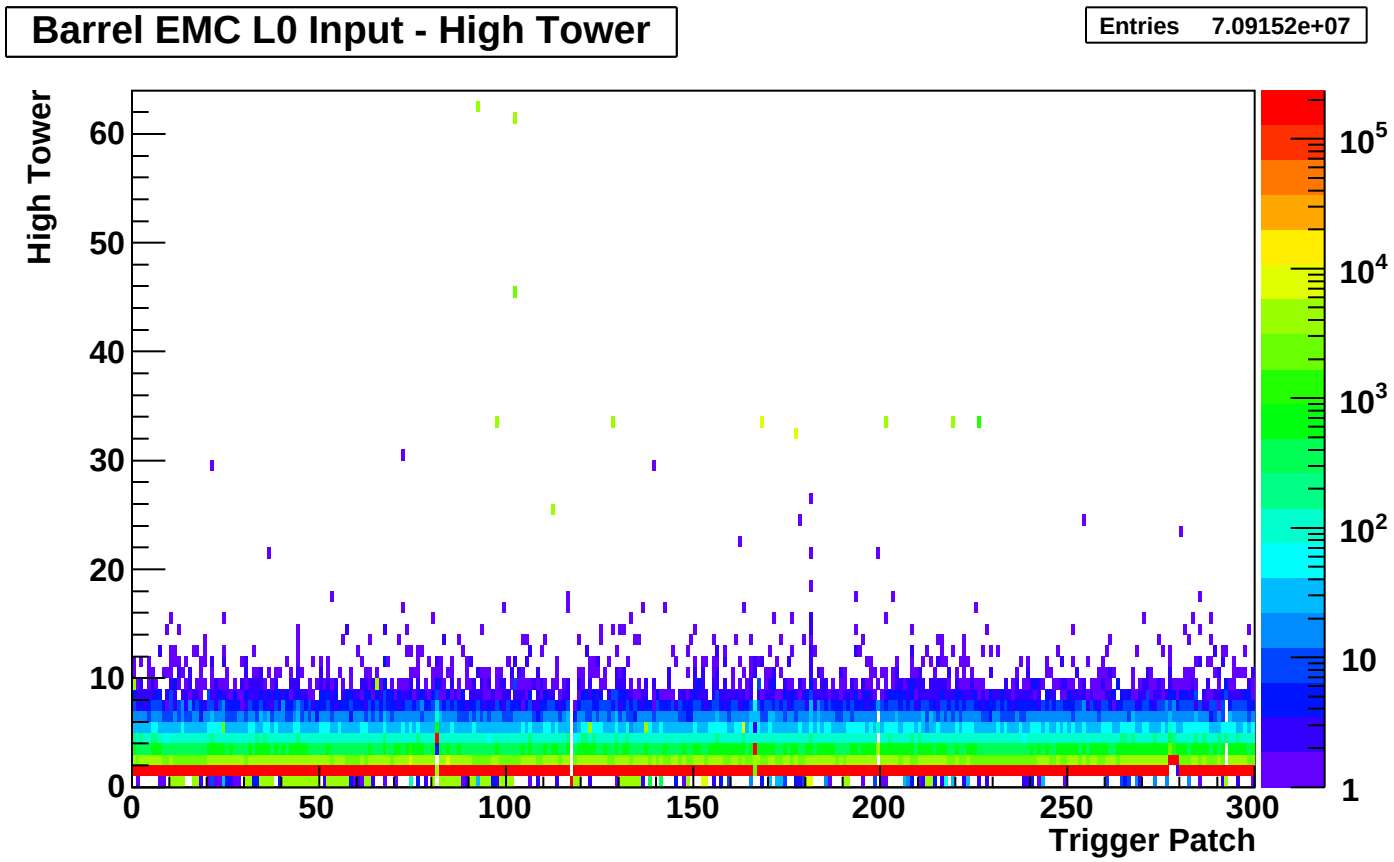

DAQ10k HT bits errors
Entries 0

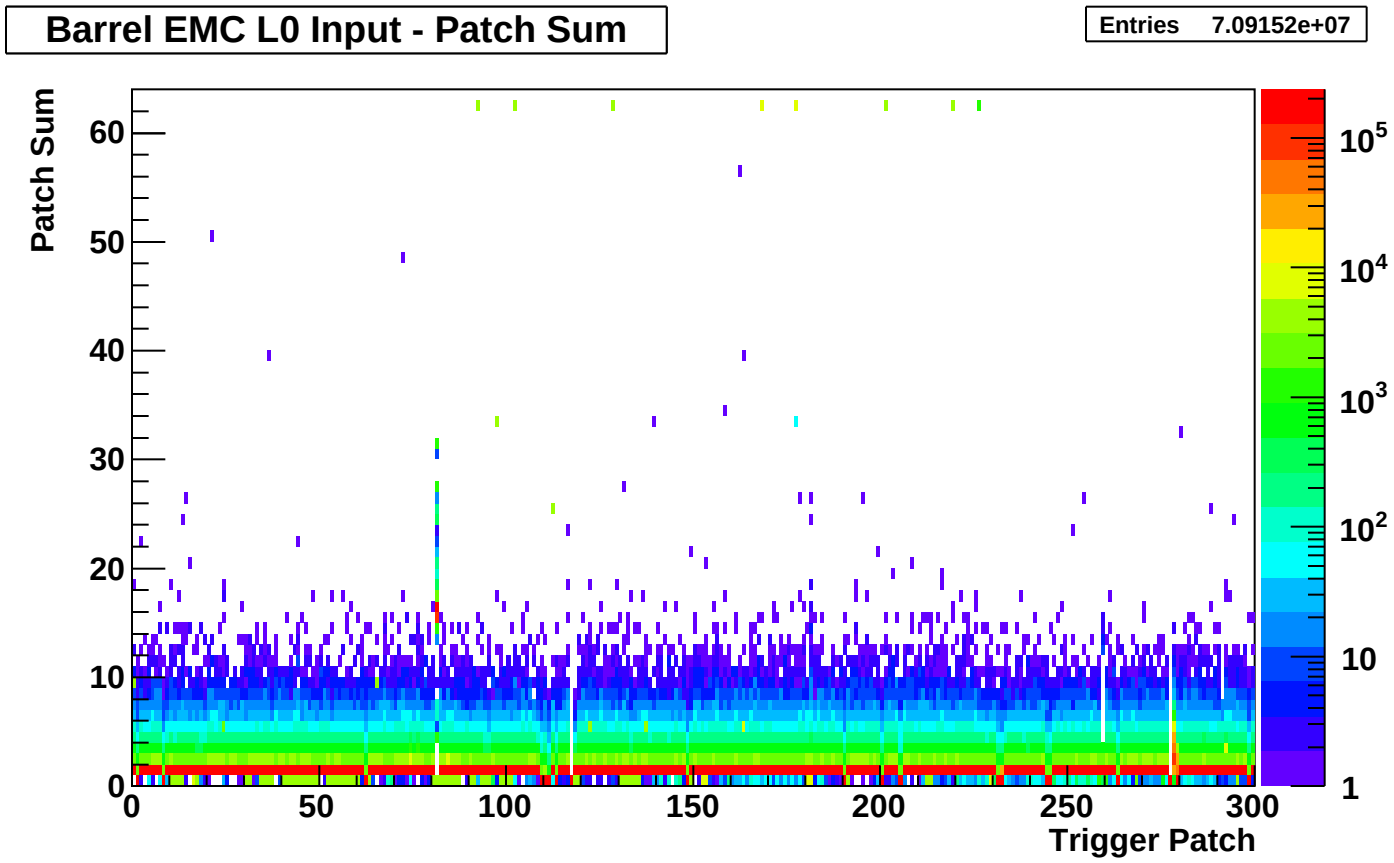

TPC Readout Mask (simulated)
Entries 78694

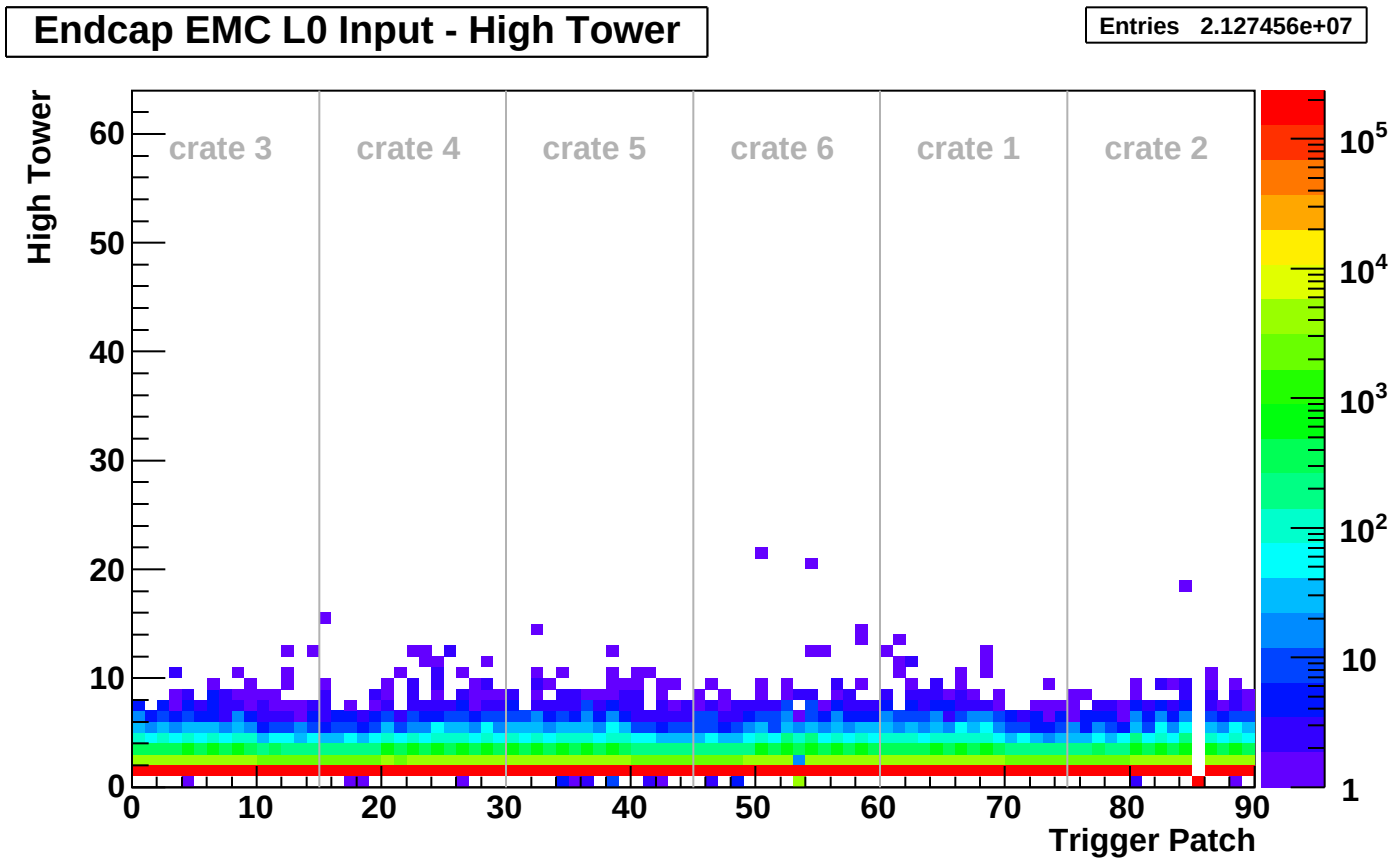

BunchId7Bit (all events)
Entries 236384

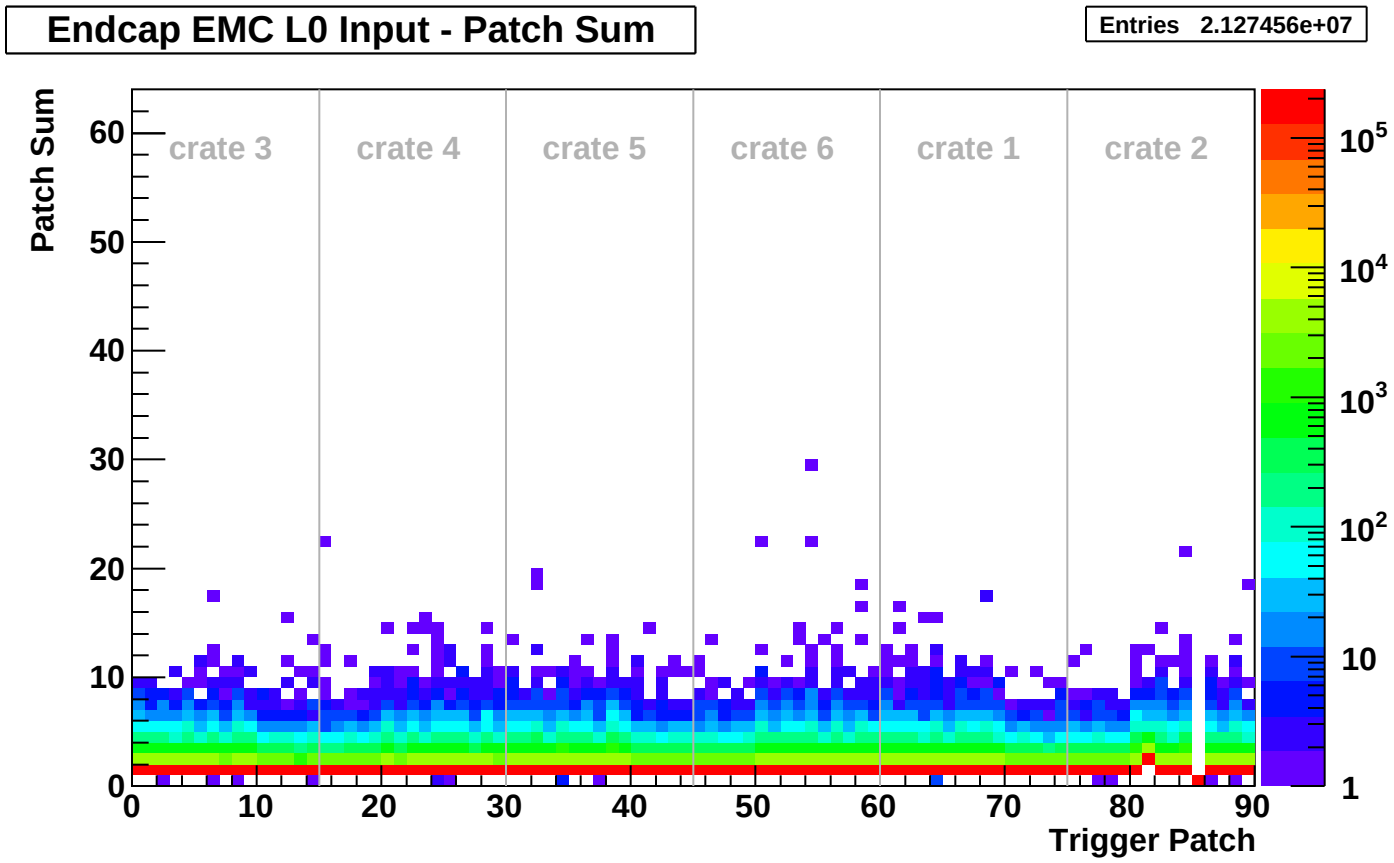

Abort-gaps
Entries 4223

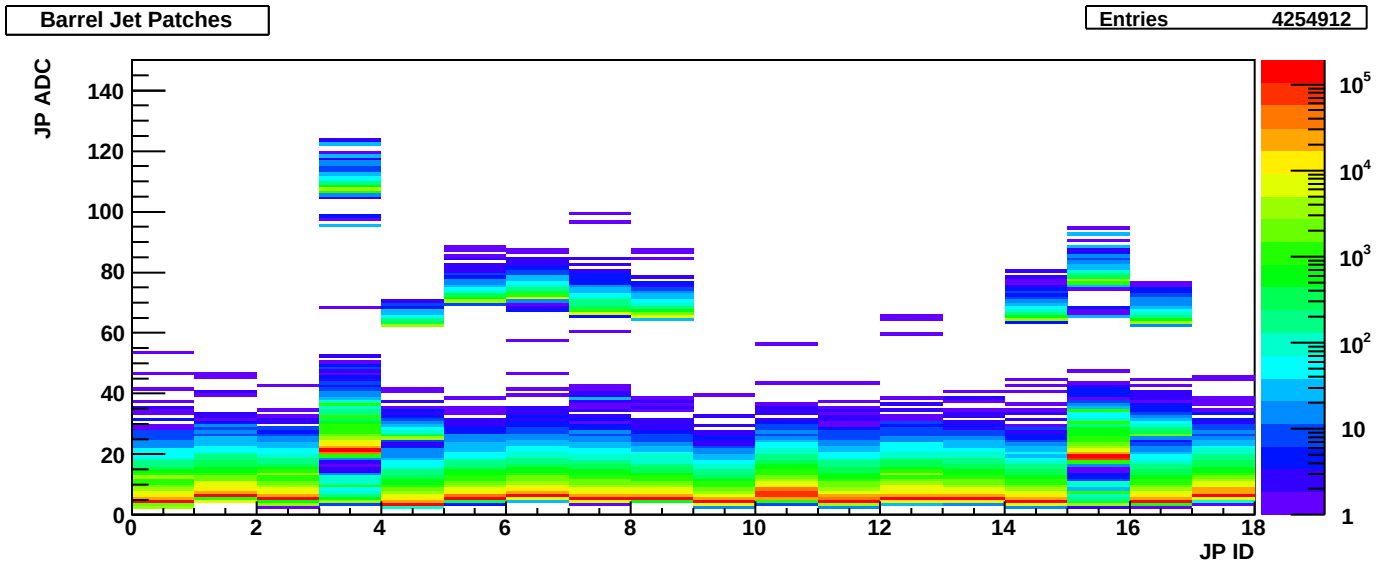

!Yellow-Fill
Entries 8536

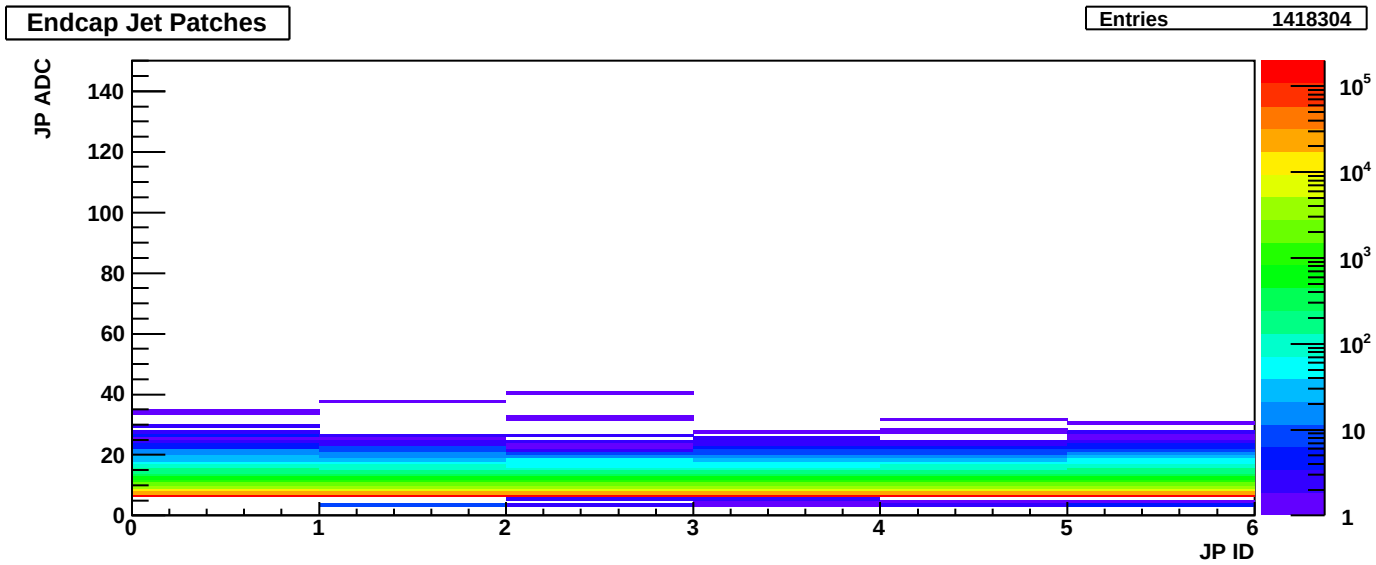

Barrel EMC L0 Input - High Tower
Entries 7.09152e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

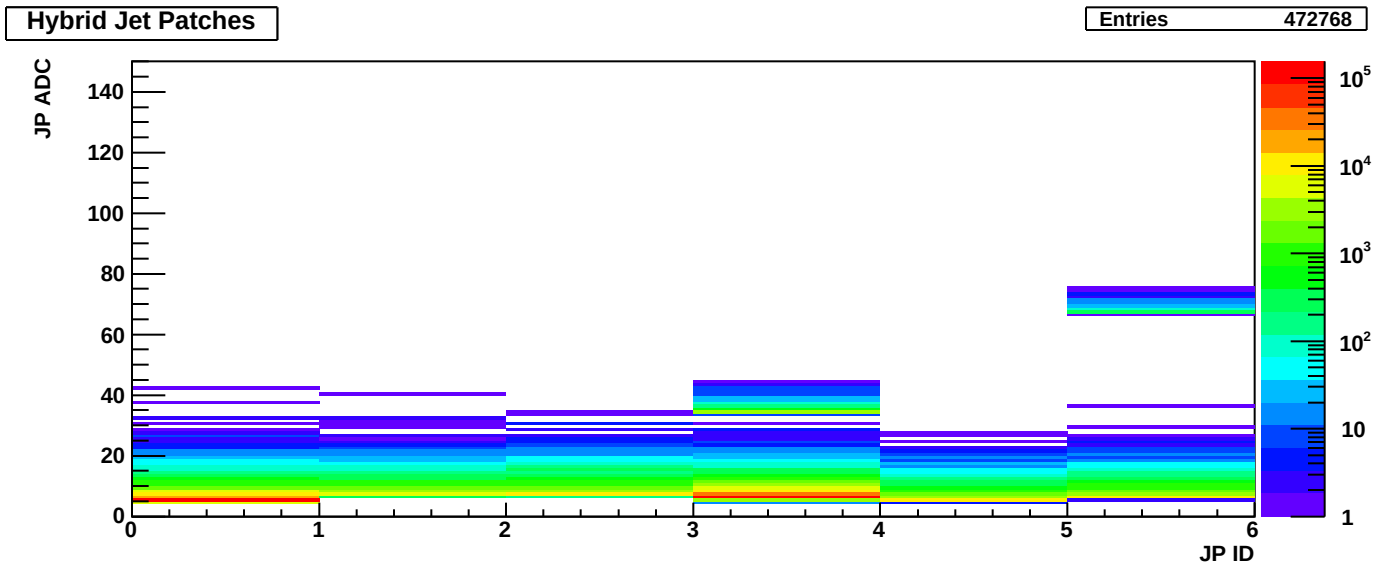

Barrel EMC L0 Input - Patch Sum
Entries 7.09152e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

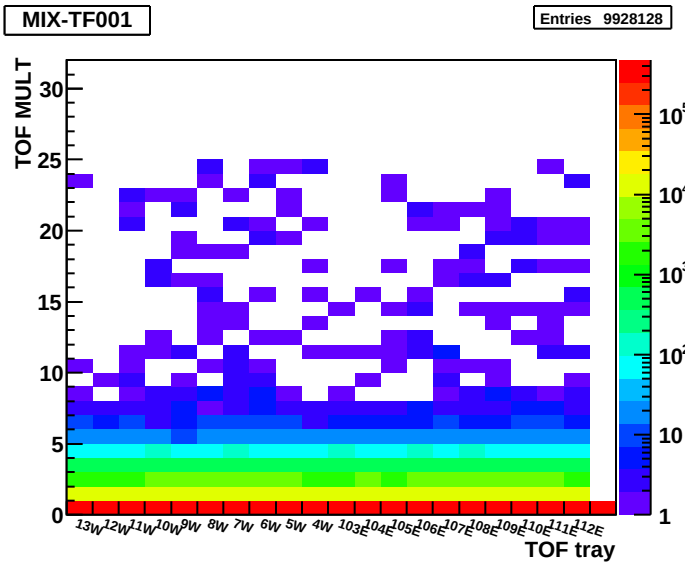

Endcap EMC L0 Input - High Tower
Entries 2.127456e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

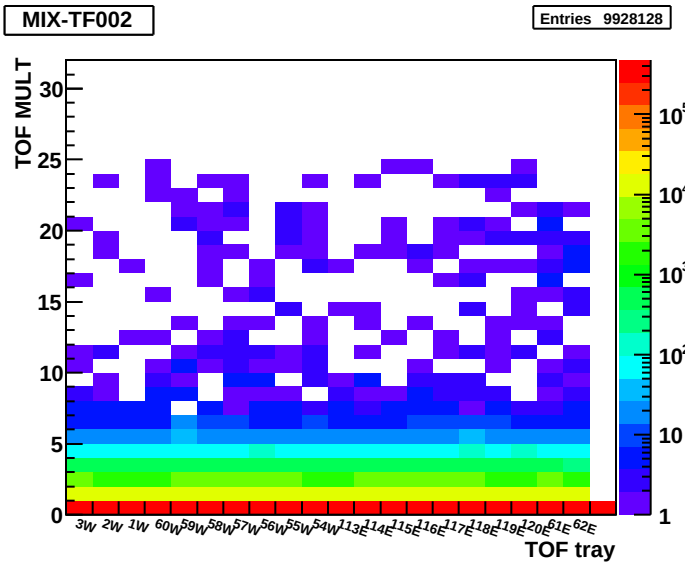

Endcap EMC L0 Input - Patch Sum
Entries 2.127456e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

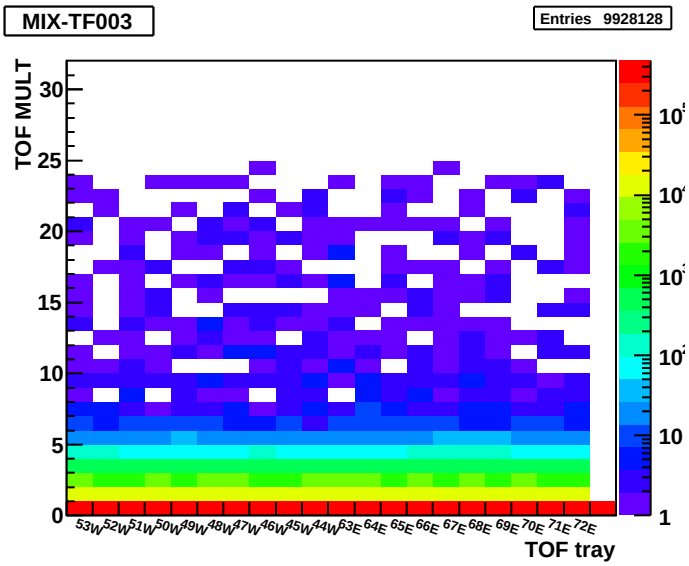

Barrel Jet Patches
Entries 4254912
JP ADC
JP ID

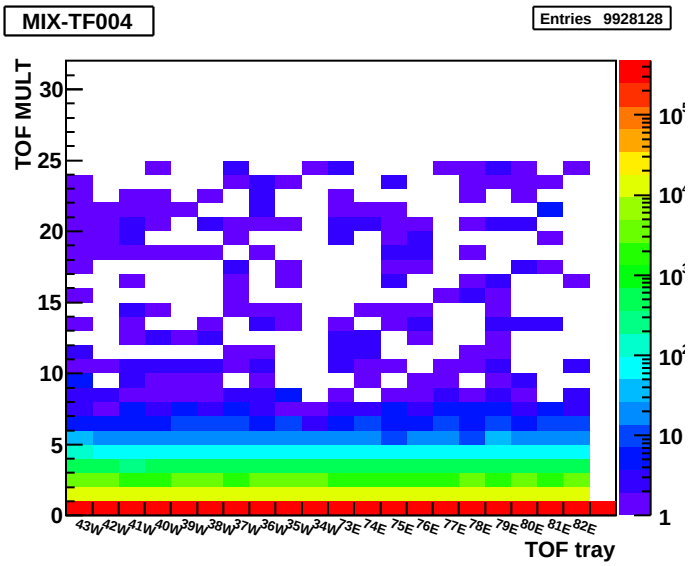

Endcap Jet Patches
Entries 1418304
JP ADC
JP ID

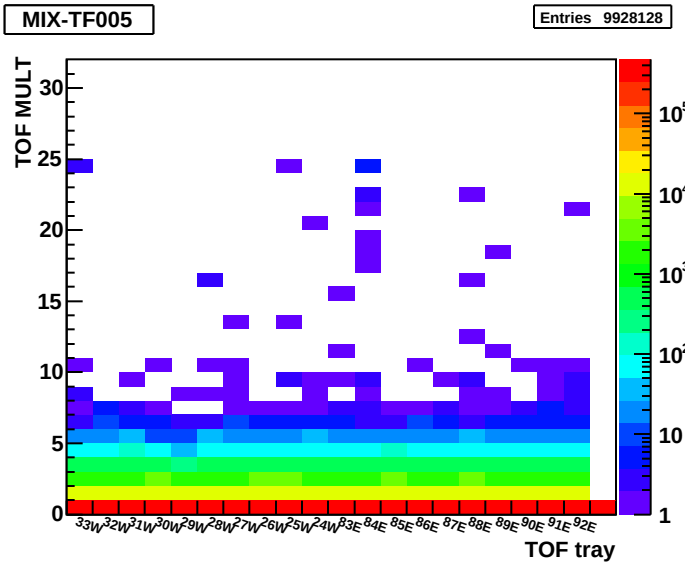

Hybrid Jet Patches
Entries 472768
JP ADC
JP ID

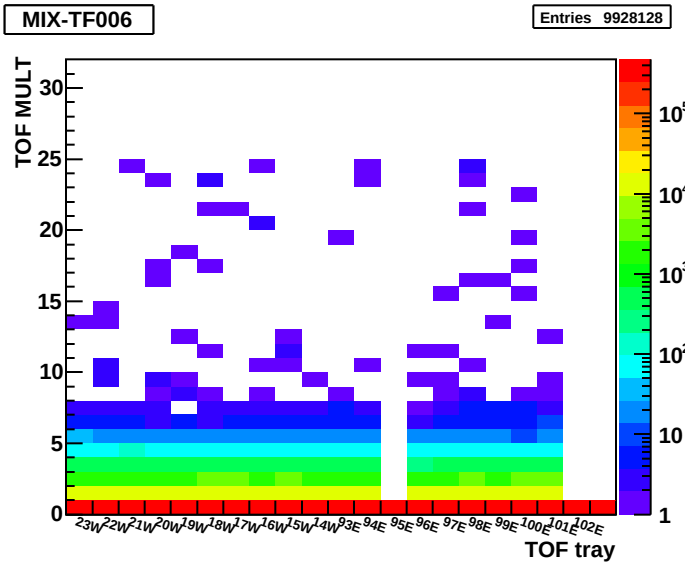

MIX-TF001
Entries 9928128
TOF MULT
TOF tray

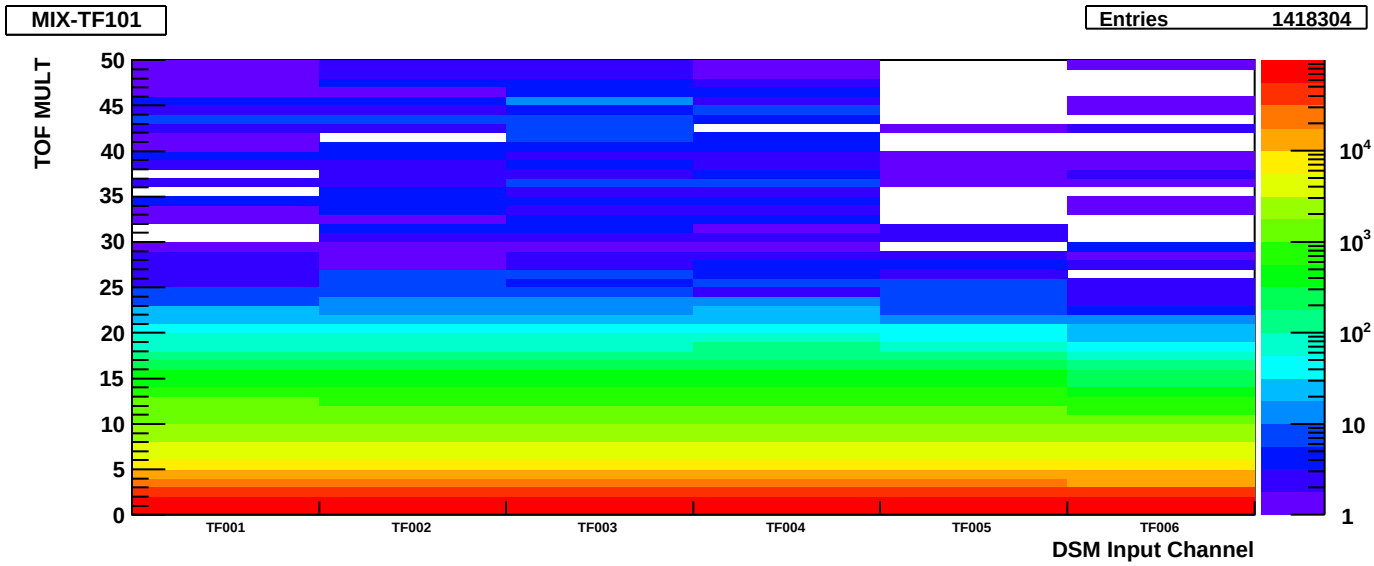

MIX-TF002
Entries 9928128
TOF MULT
TOF tray

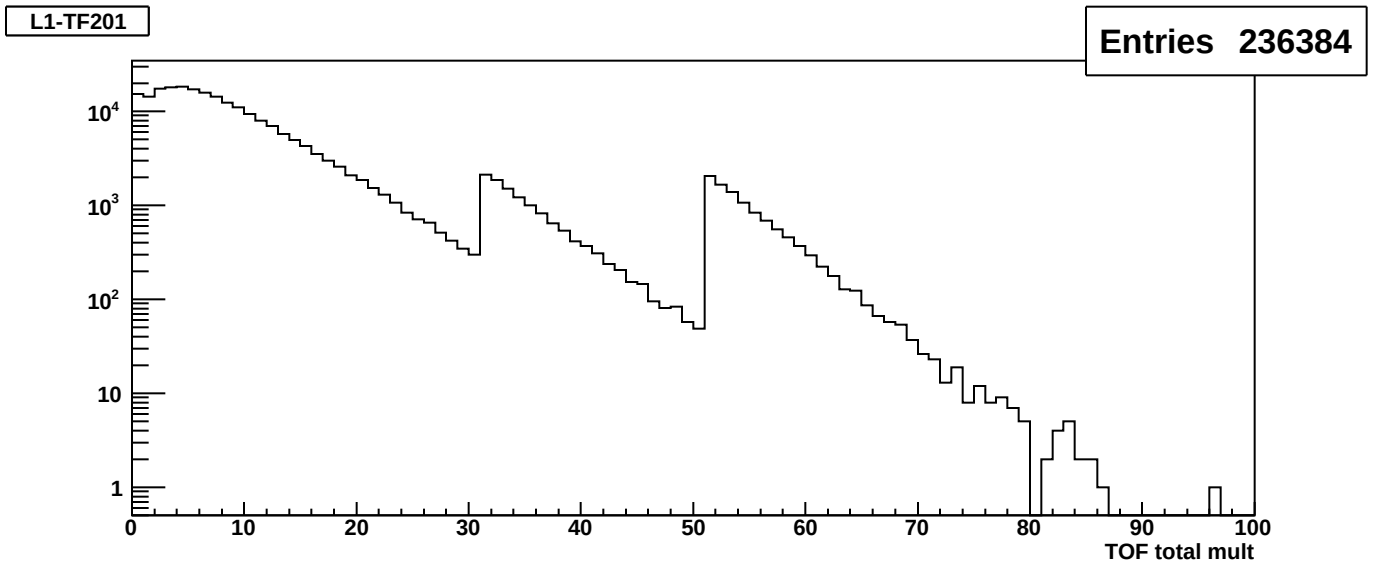

MIX-TF003
Entries 9928128
TOF MULT
TOF tray

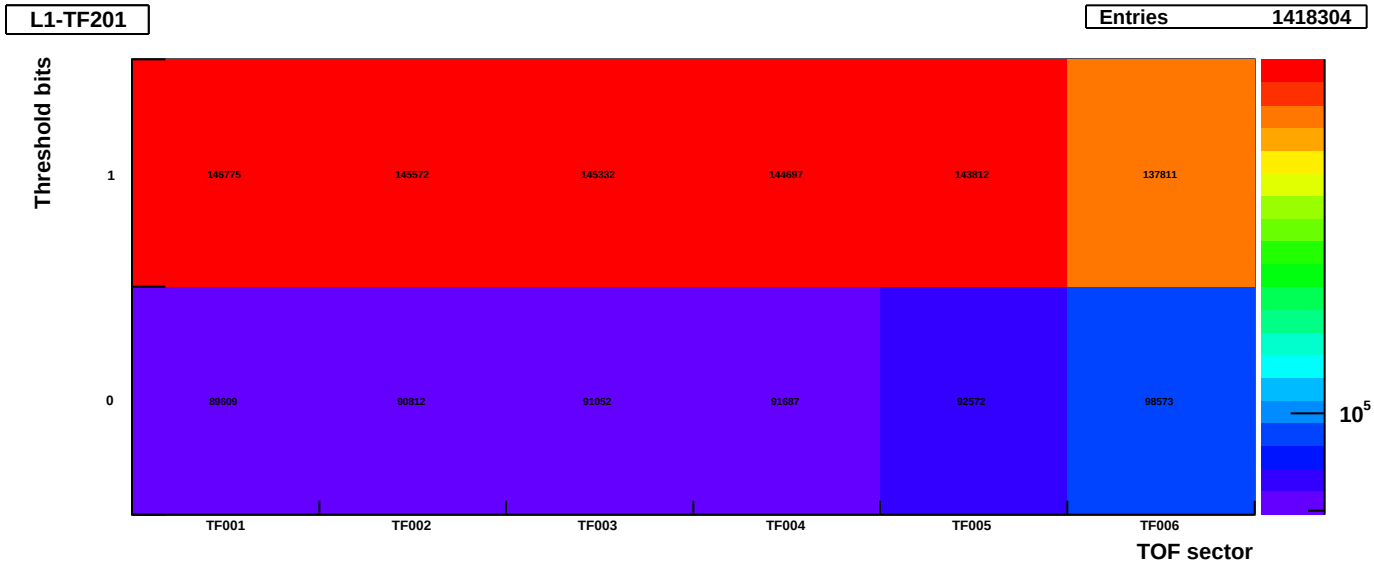

MIX-TF004
Entries 9928128
TOF MULT
TOF tray

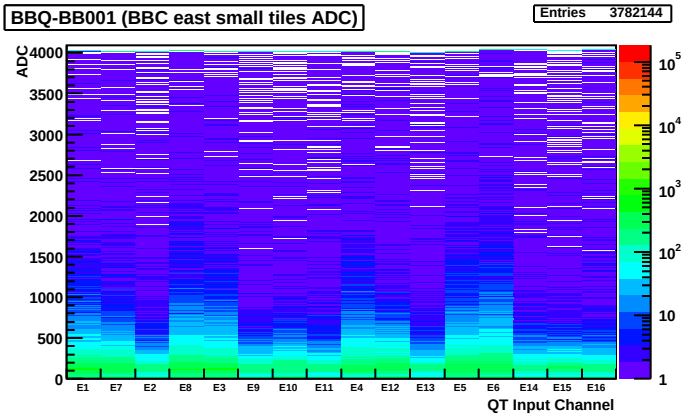

MIX-TF005
Entries 9928128
TOF MULT
TOF tray

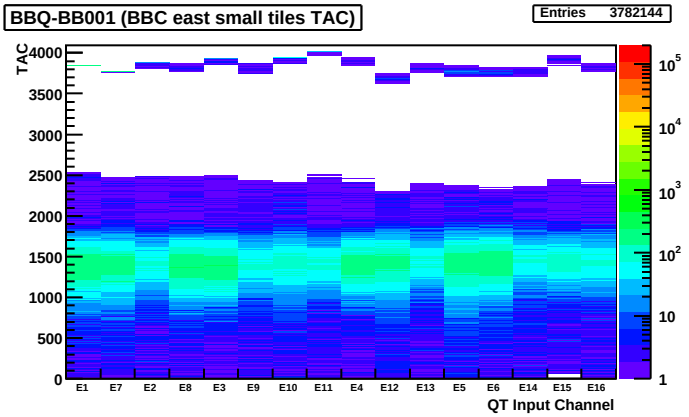

MIX-TF006
Entries 9928128
TOF MULT
TOF tray

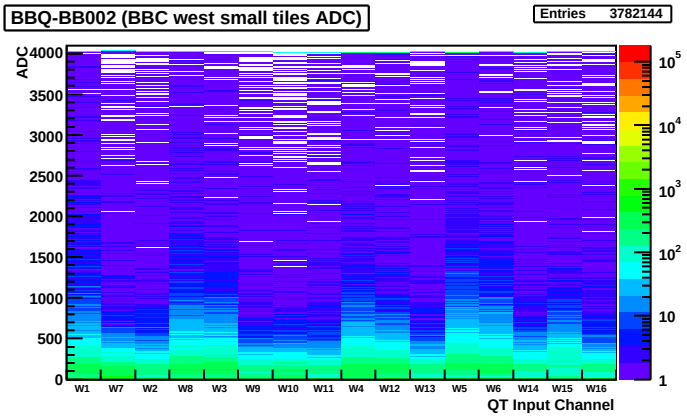

MIX-TF101
Entries 1418304
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

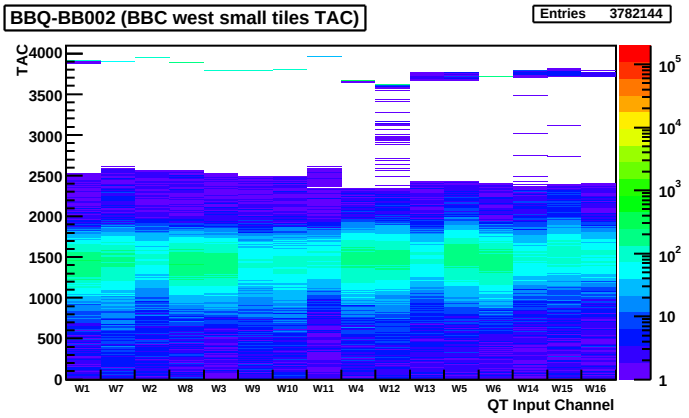

L1-TF201
Entries 236384
TOF total mult

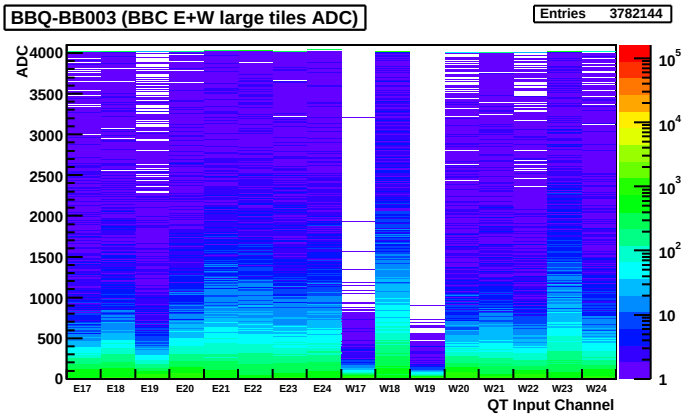

L1-TF201
Entries 1418304
Threshold bits
146775
145572
145332
144697
143812
137811
89609
90812
91052
91687
92572
98573
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

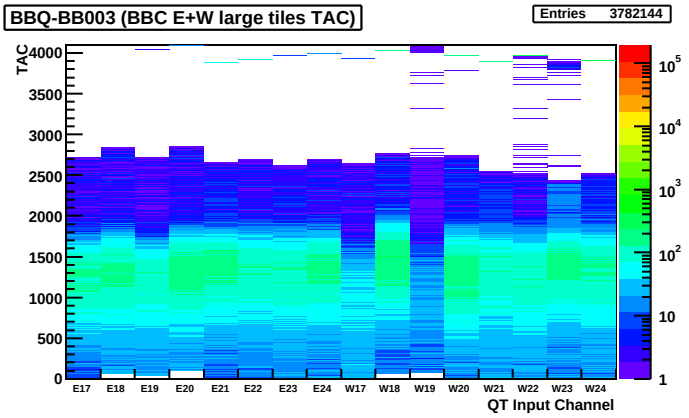

BBQ-BB001 (BBC east small tiles ADC)
Entries 3782144
ADC
QT Input Channel

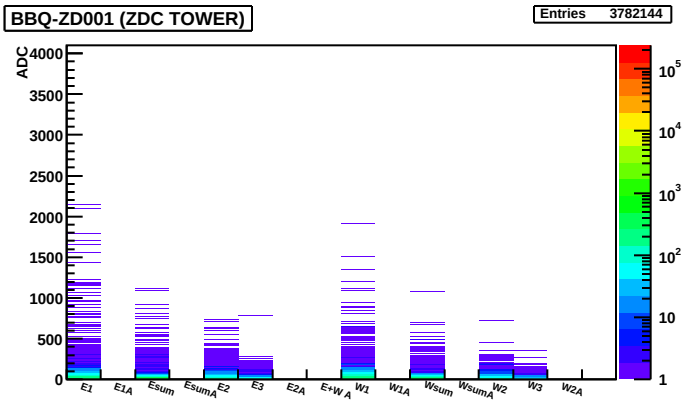

BBQ-BB001 (BBC east small tiles TAC)
Entries 3782144
TAC
QT Input Channel

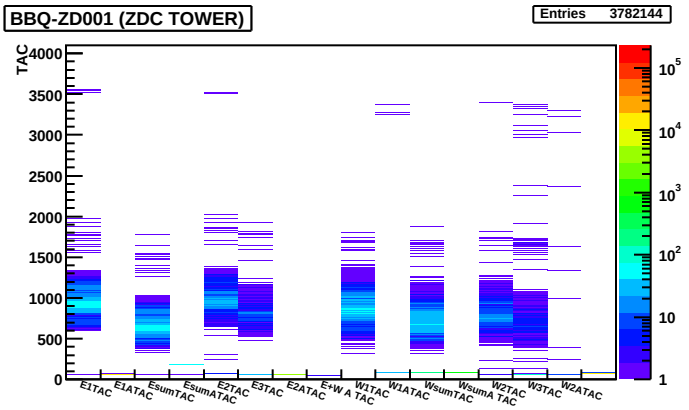

BBQ-BB002 (BBC west small tiles ADC)
Entries 3782144
ADC
QT Input Channel

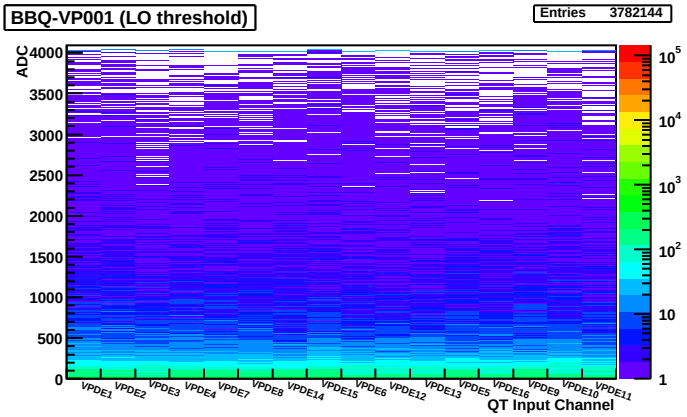

BBQ-BB002 (BBC west small tiles TAC)
Entries 3782144
TAC
QT Input Channel

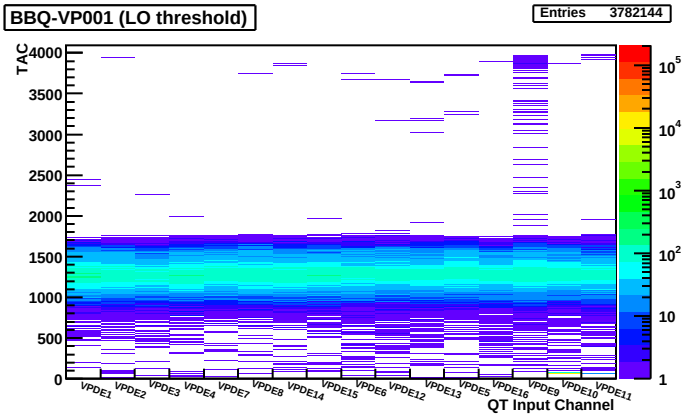

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3782144
ADC
QT Input Channel

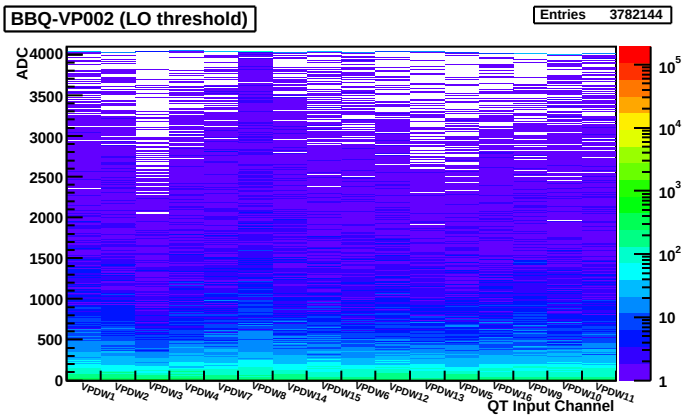

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3782144
TAC
QT Input Channel

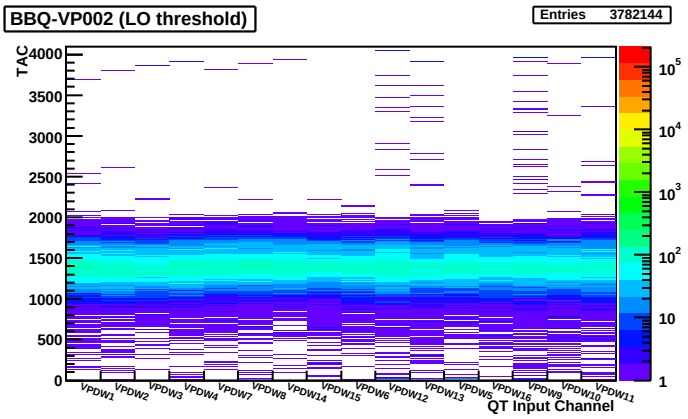

BBQ-ZD001 (ZDC TOWER)
Entries 3782144
ADC

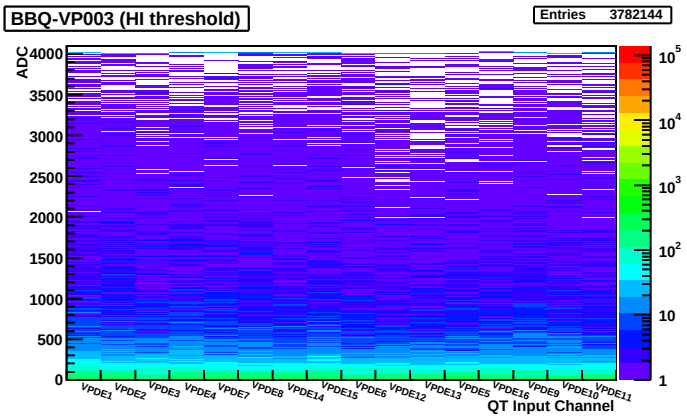

BBQ-ZD001 (ZDC TOWER)
Entries 3782144
TAC

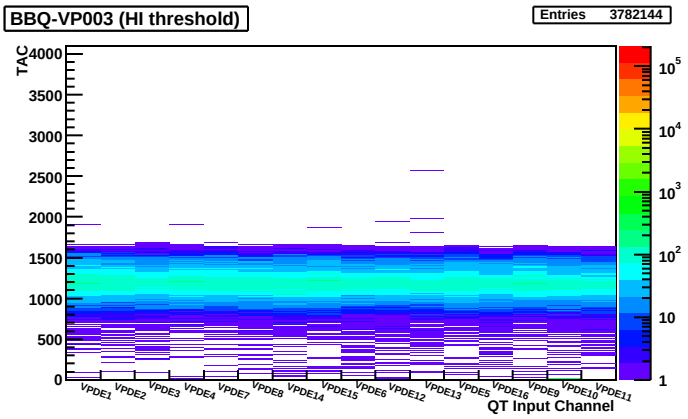

BBQ-VP001 (LO threshold)
Entries 3782144
ADC
QT Input Channel

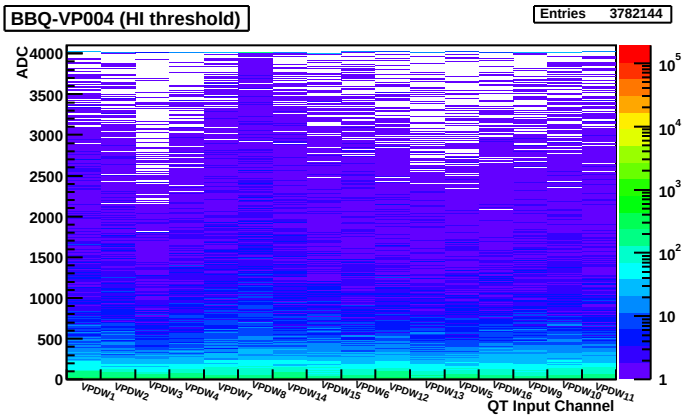

BBQ-VP001 (LO threshold)
Entries 3782144
TAC
QT Input Channel

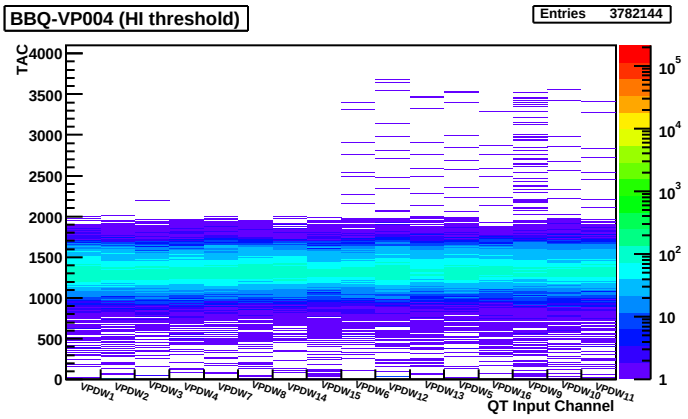

BBQ-VP002 (LO threshold)
Entries 3782144
ADC
QT Input Channel

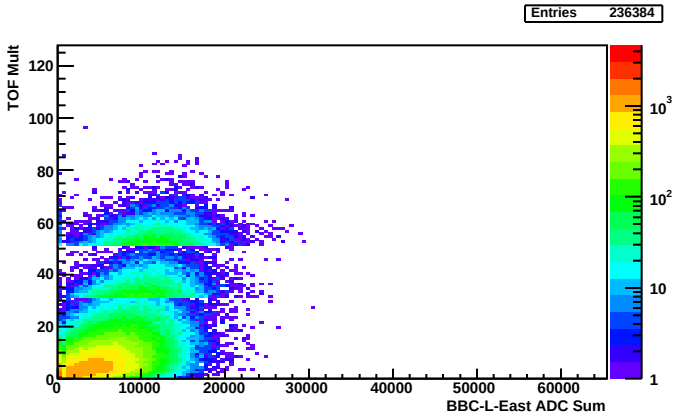

BBQ-VP002 (LO threshold)
Entries 3782144
TAC
QT Input Channel

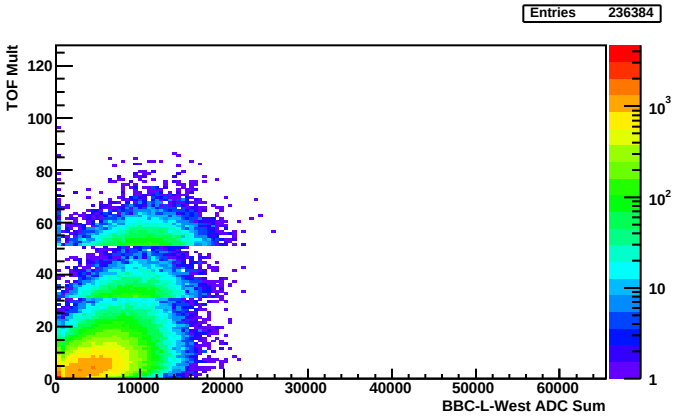

BBQ-VP003 (HI threshold)
Entries 3782144
ADC
QT Input Channel

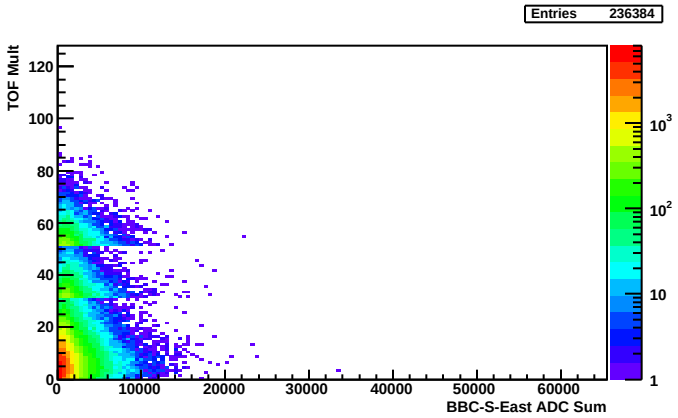

BBQ-VP003 (HI threshold)
Entries 3782144
TAC
QT Input Channel

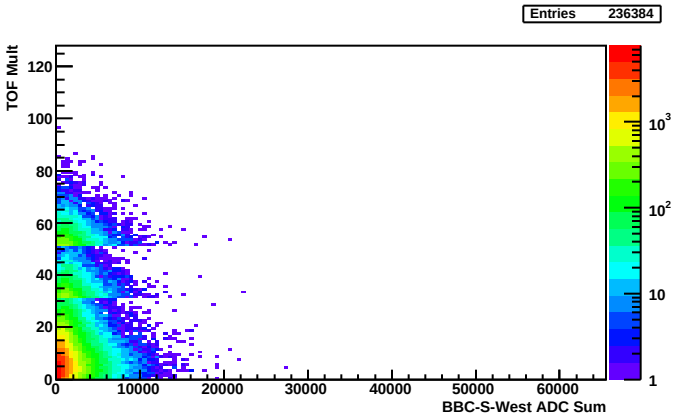

BBQ-VP004 (HI threshold)
Entries 3782144
ADC
QT Input Channel

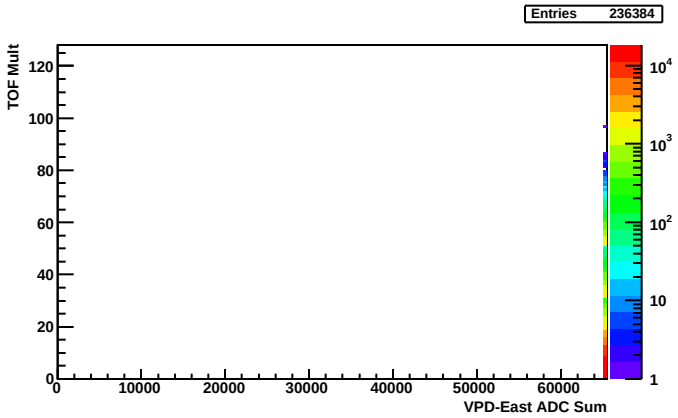

BBQ-VP004 (HI threshold)
Entries 3782144
TAC
QT Input Channel

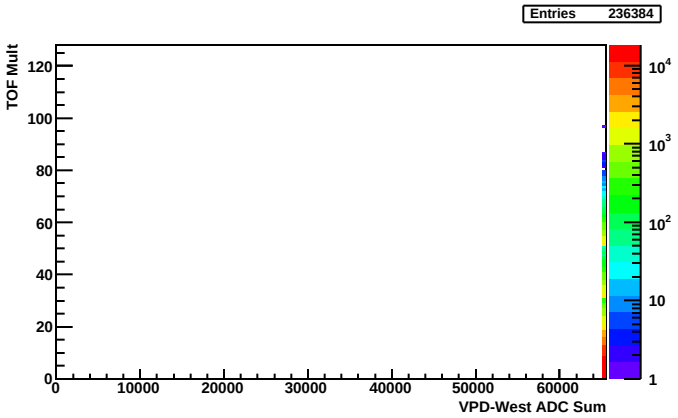

Entries 236384
TOF Mult
BBC-L-East ADC Sum

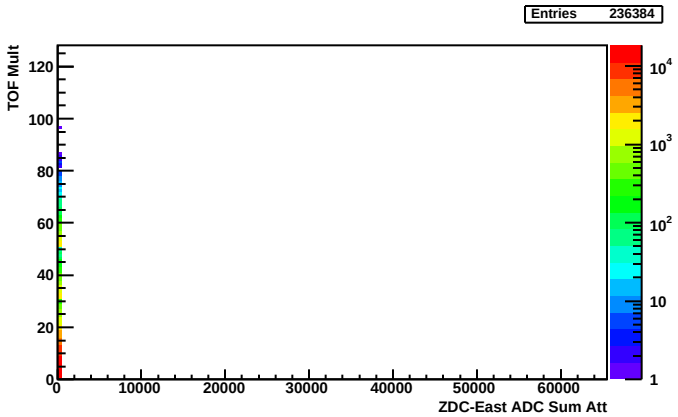

Entries 236384
TOF Mult
BBC-L-West ADC Sum

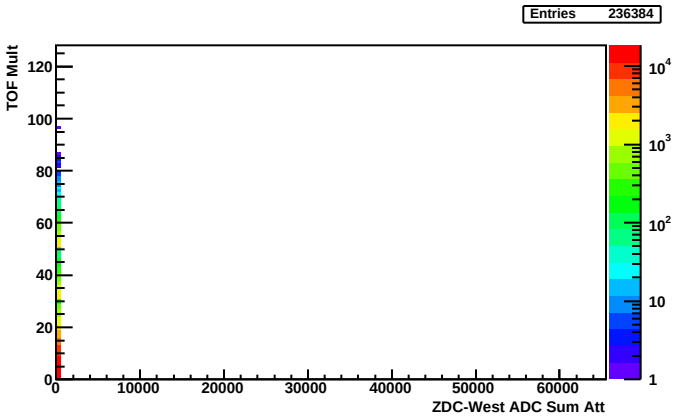

Entries 236384
TOF Mult
BBC-S-East ADC Sum

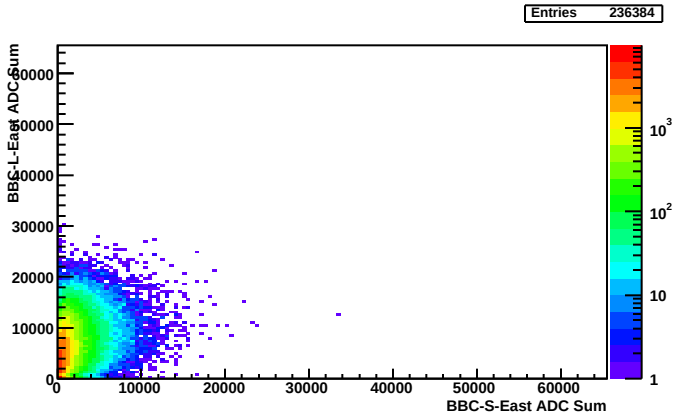

Entries 236384
TOF Mult
BBC-S-West ADC Sum

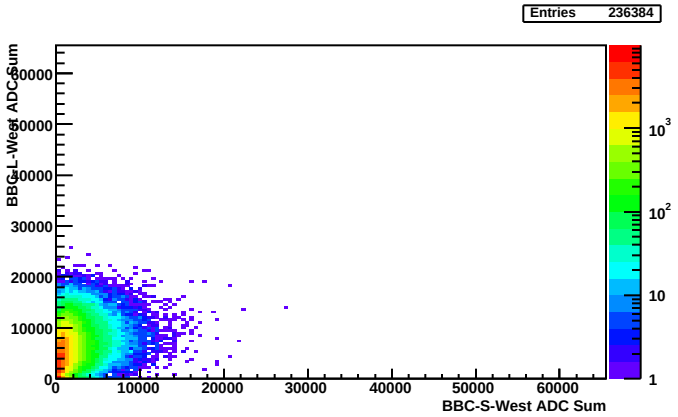

Entries 236384
TOF Mult
VPD-East ADC Sum

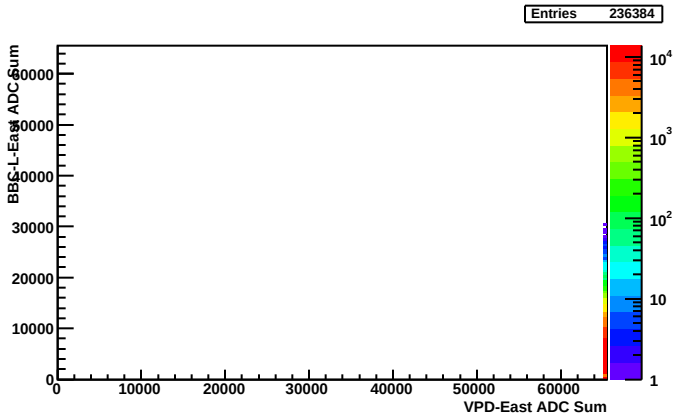

Entries 236384
TOF Mult
VPD-West ADC Sum

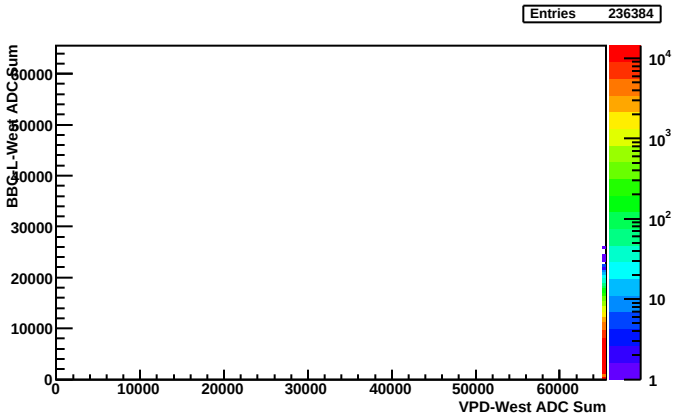

Entries 236384
TOF Mult
ZDC-East ADC Sum Att

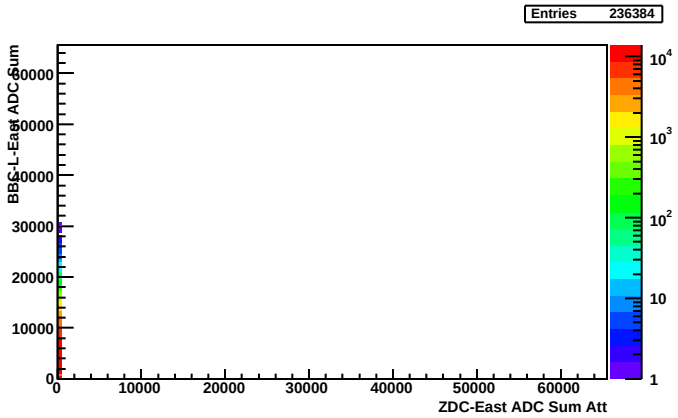

Entries 236384
TOF Mult
ZDC-West ADC Sum Att

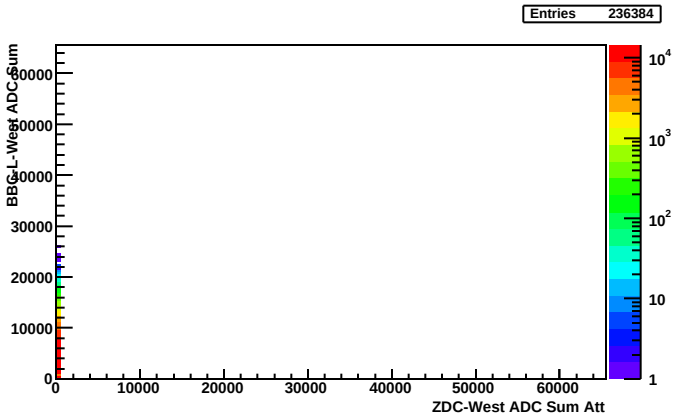

Entries 236384
BBC-L-East ADC Sum
BBC-S-East ADC Sum

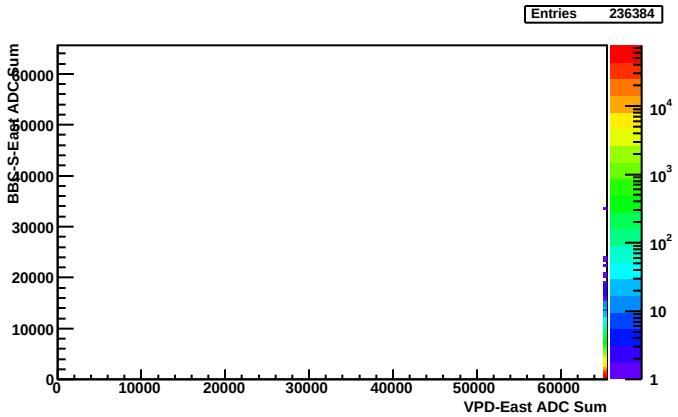

Entries 236384
BBC-L-West ADC Sum
BBC-S-West ADC Sum

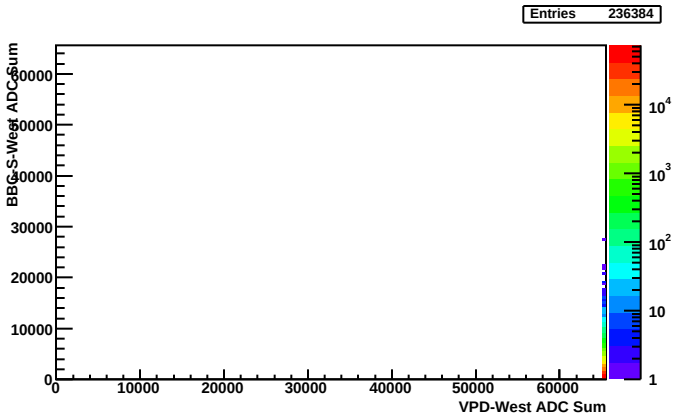

Entries 236384
BBC-L-East ADC Sum
VPD-East ADC Sum

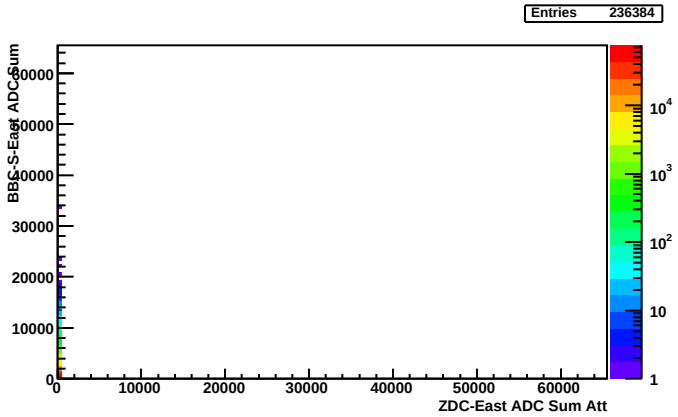

Entries 236384
BBC-L-West ADC Sum
VPD-West ADC Sum

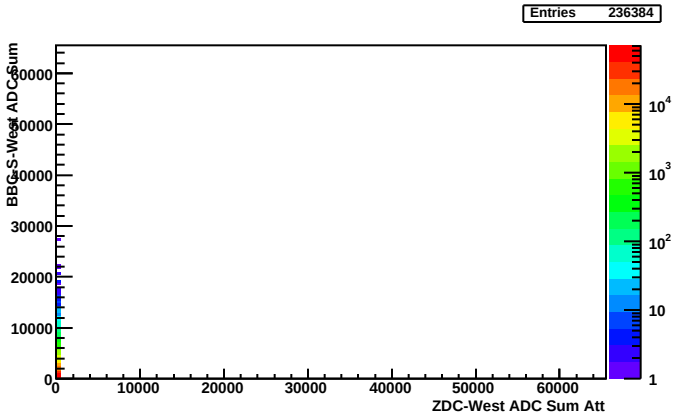

Entries 236384
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

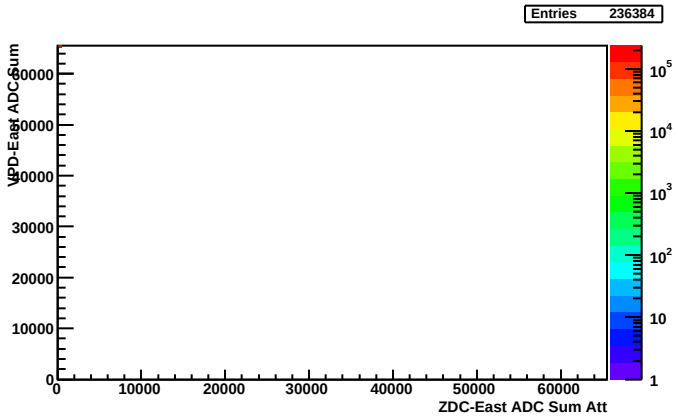

Entries 236384
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 236384
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 236384
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 236384
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 236384
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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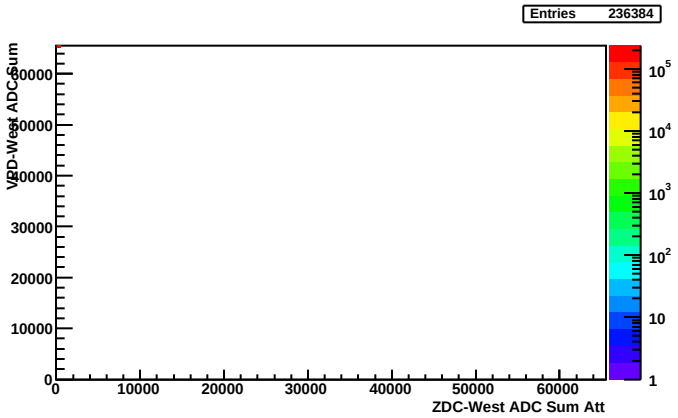
VPD-East ADC Sum
ZDC-East ADC Sum Att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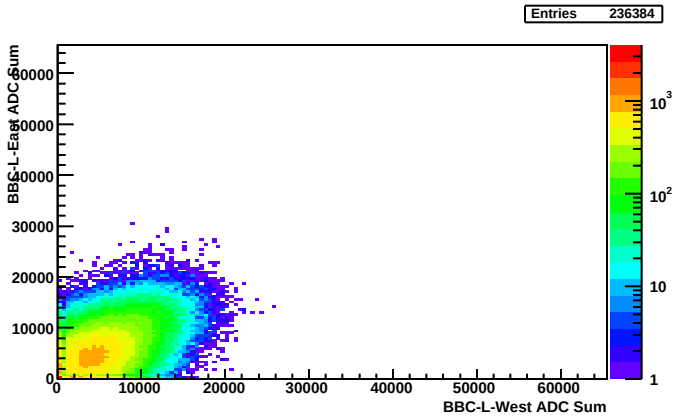
VPD-West ADC Sum
ZDC-West ADC Sum Att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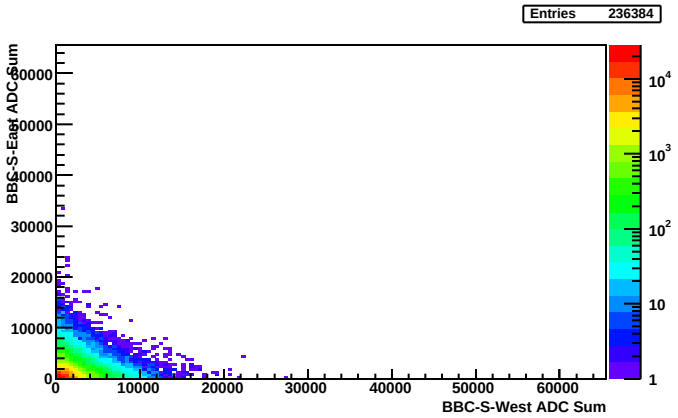
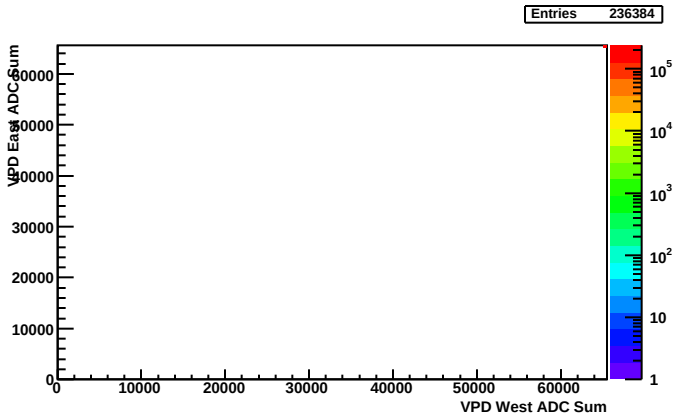
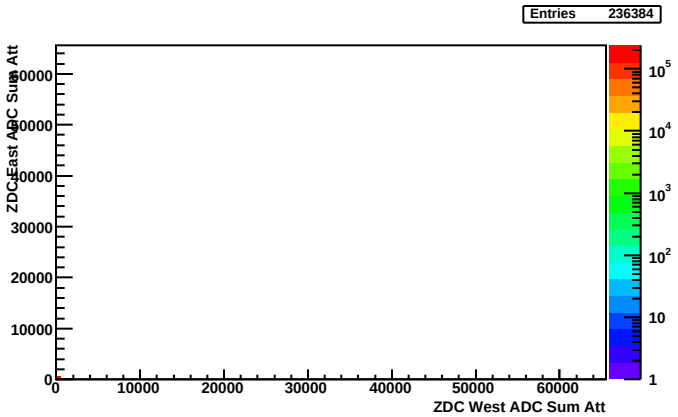
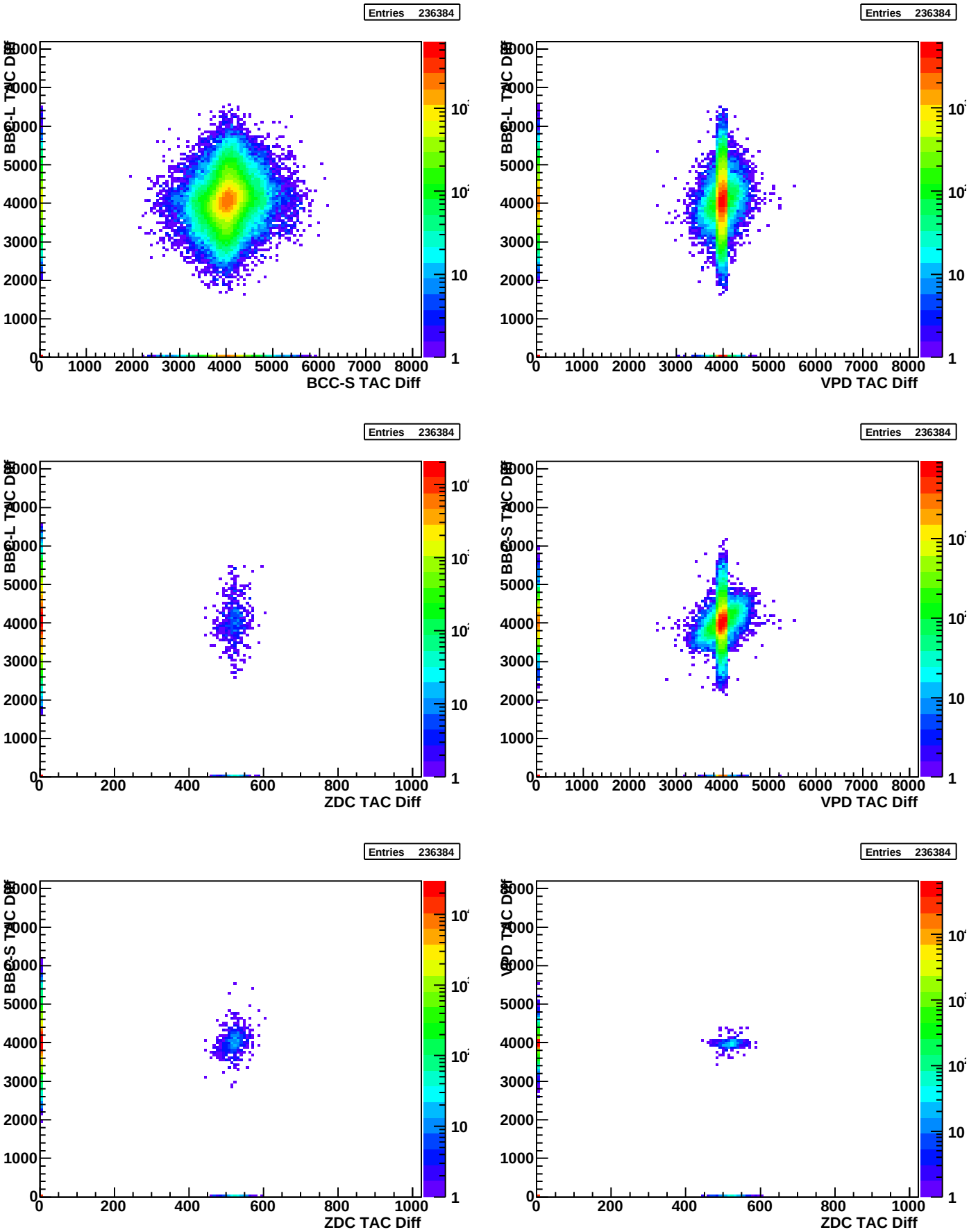
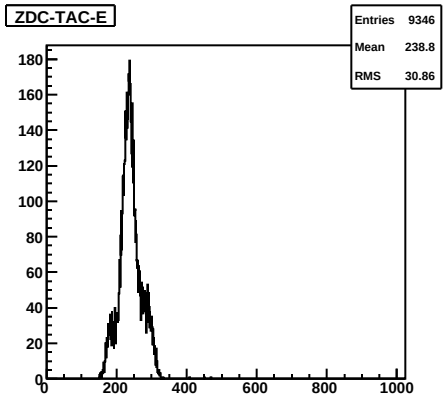
BBC-L-East ADC Sum
BBC-L-West ADC Sum

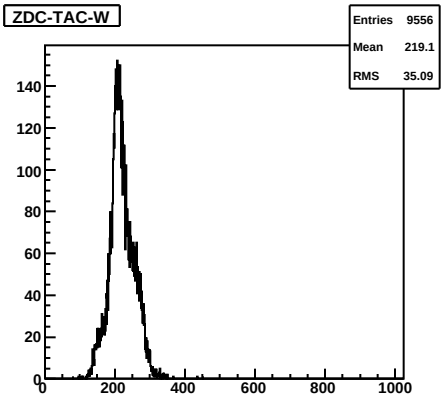

Entries 236384
BBC-S-East ADC Sum
BBC-S-West ADC Sum

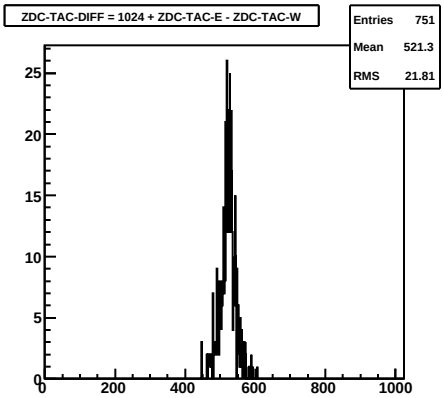

Entries 236384
VPD East ADC Sum
VPD West ADC Sum

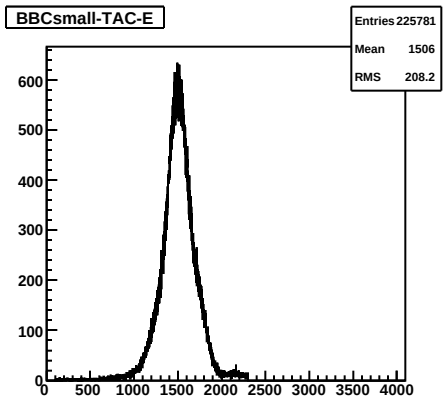

Entries 236384
ZDC East ADC Sum Att
ZDC West ADC Sum Att

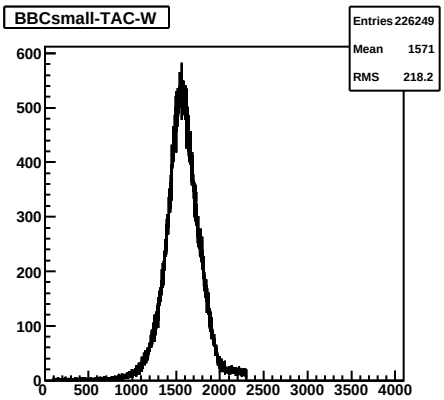

Entries 236384
BBC-L TAC Diff
BCC-S TAC Diff
Entries 236384
BBC-L TAC Diff
VPD TAC Diff
Entries 236384
BBC-L TAC Diff
ZDC TAC Diff
Entries 236384
BBC-S TAC Diff
VPD TAC Diff
Entries 236384
BBC-S TAC Diff
ZDC TAC Diff
Entries 236384
VPD TAC Diff
ZDC TAC Diff

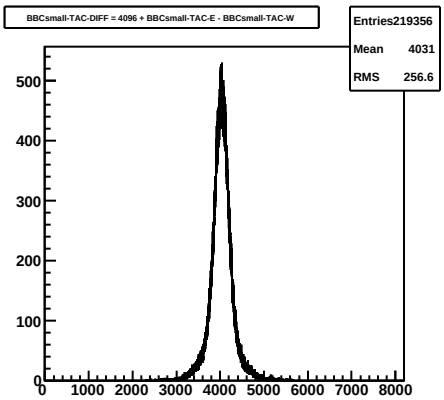

ZDC-TAC-E
Entries 9346
Mean 238.8
RMS 30.86

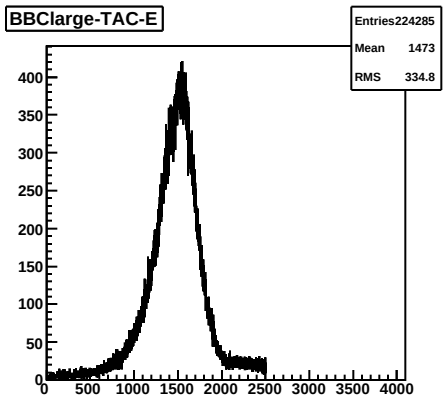

ZDC-TAC-W
Entries 9556
Mean 219.1
RMS 35.09

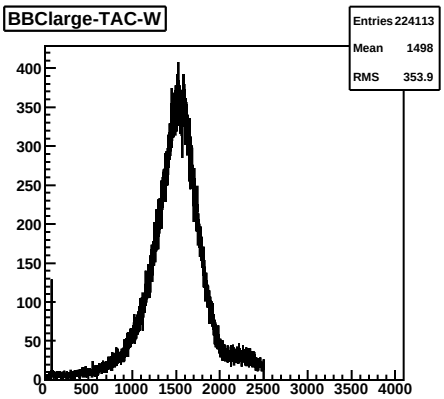

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 751
Mean 521.3
RMS 21.81

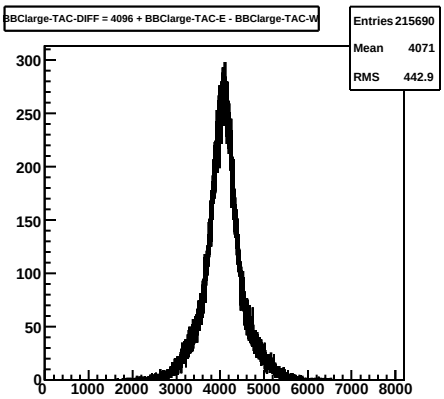

BBCsmall-TAC-E
Entries 225781
Mean 1506
RMS 208.2

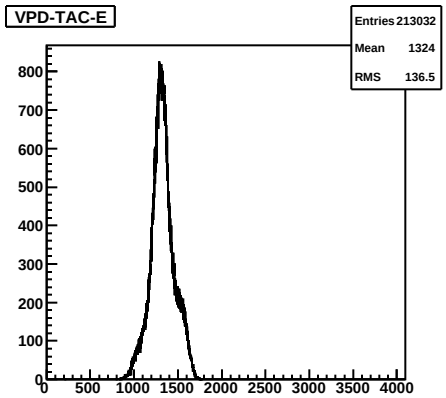

BBCsmall-TAC-W
Entries 226249
Mean 1571
RMS 218.2

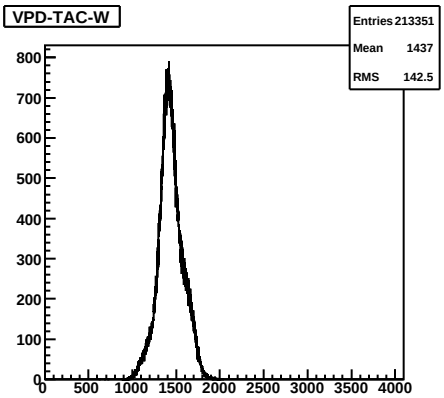

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 219356
Mean 4031
RMS 256.6

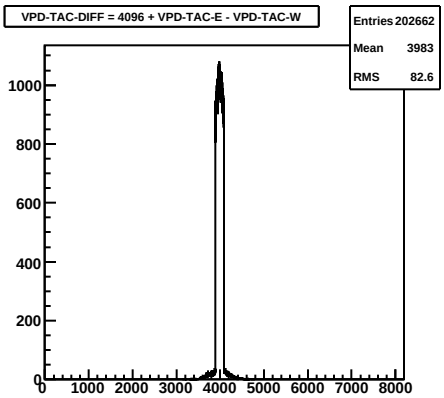

BBClarge-TAC-E
Entries 224285
Mean 1473
RMS 334.8

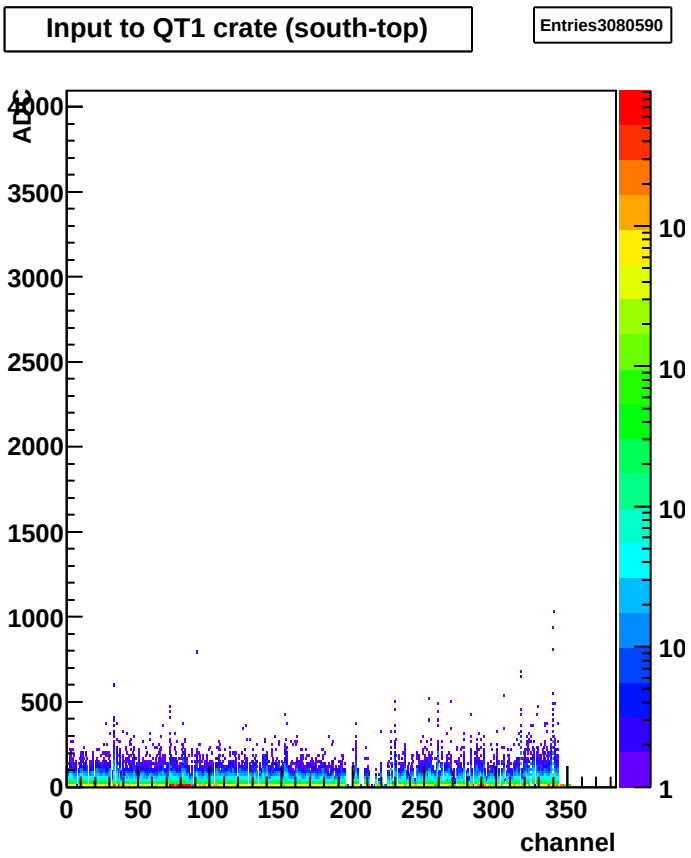

BBClarge-TAC-W
Entries 224113
Mean 1498
RMS 353.9

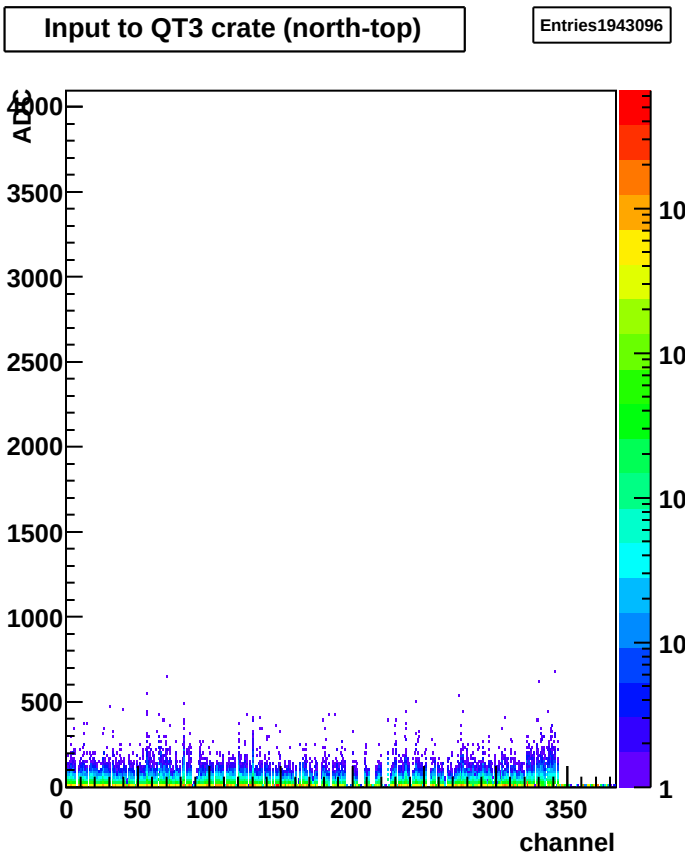

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 215690
Mean 4071
RMS 442.9

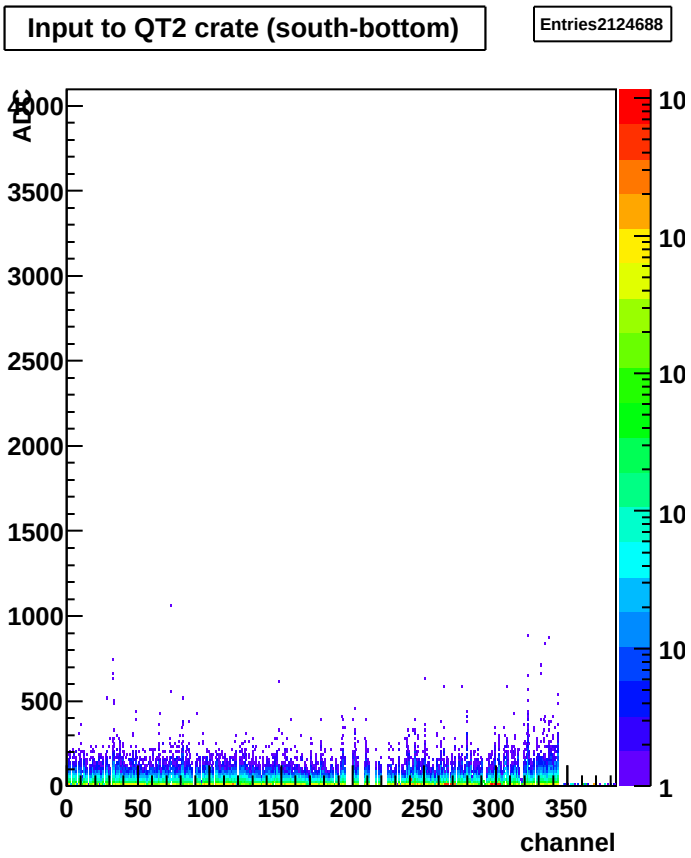

VPD-TAC-E
Entries 213032
Mean 1324
RMS 136.5

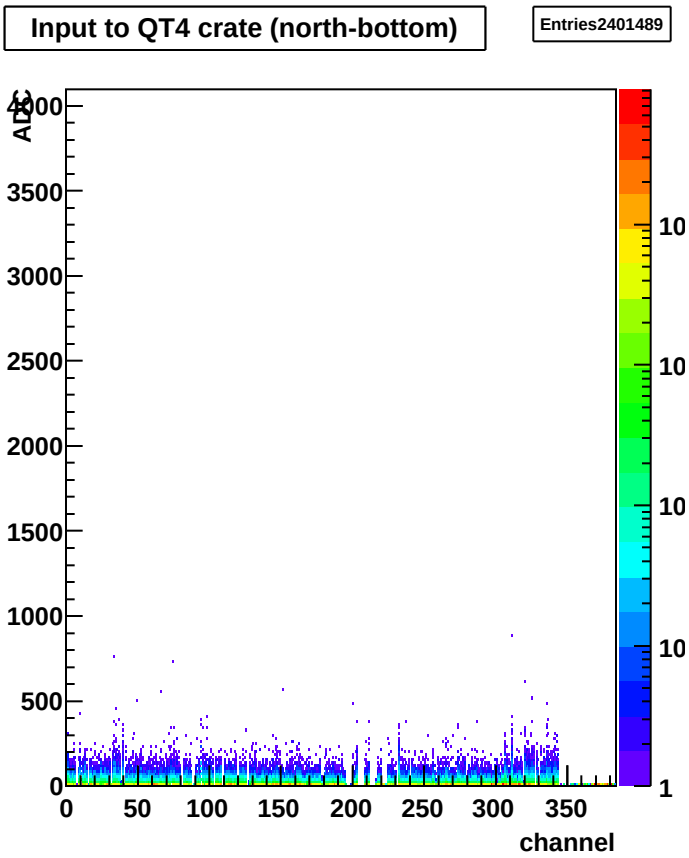

VPD-TAC-W
Entries 213351
Mean 1437
RMS 142.5

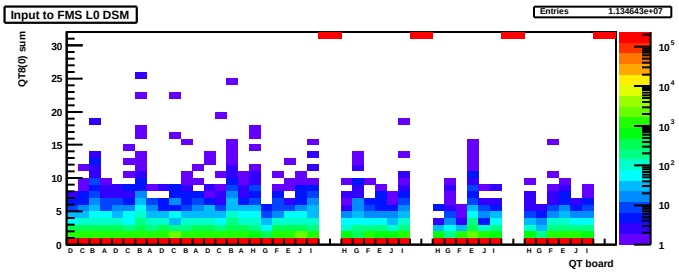

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 202662
Mean 3983
RMS 82.6

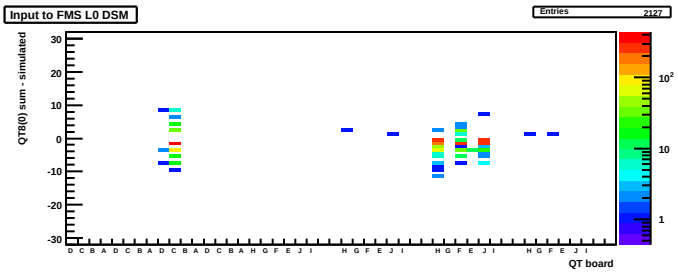

Input to QT1 crate (south-top)
Entries3080590
ADC
channel

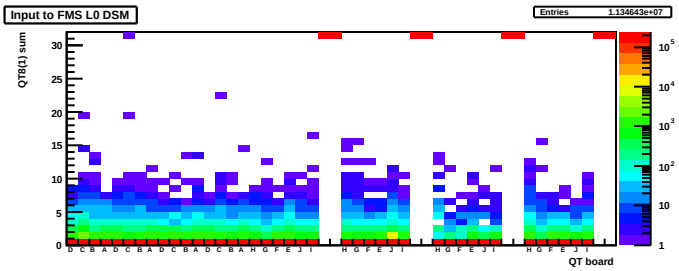

Input to QT3 crate (north-top)
Entries1943096
ADC
channel

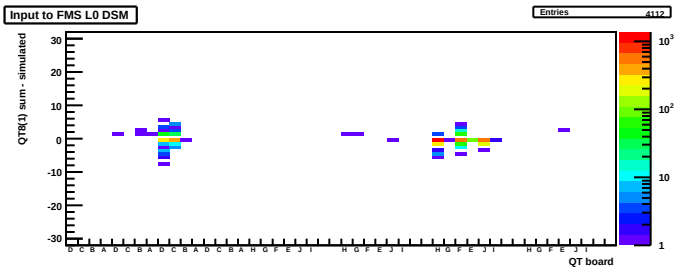

Input to QT2 crate (south-bottom)
Entries2124688
ADC
channel

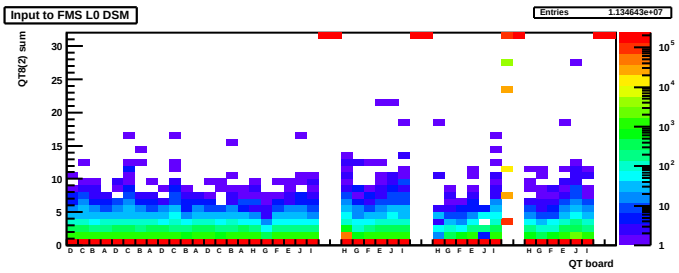

Input to QT4 crate (north-bottom)
Entries2401489
ADC
channel

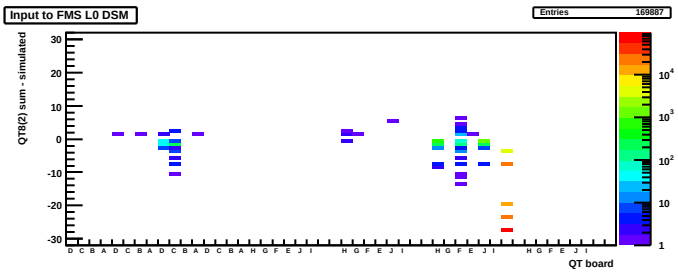

Input to FMS L0 DSM
Entries 1.134643e+07
QT8(0) sum
QT board

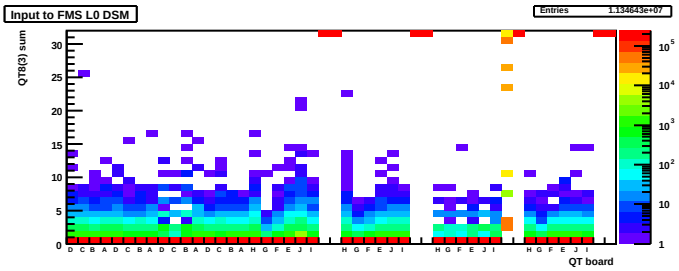

Input to FMS L0 DSM
Entries 2127
QT8(0) sum - simulated
QT board

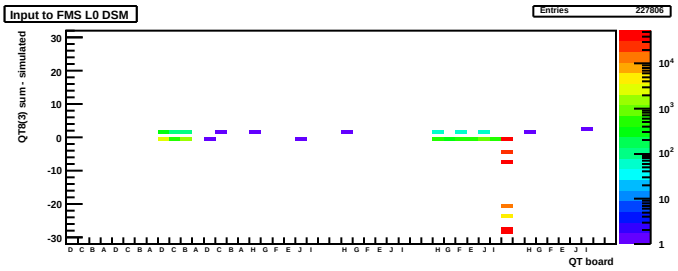

Input to FMS L0 DSM
Entries 1.134643e+07
QT8(1) sum
QT board

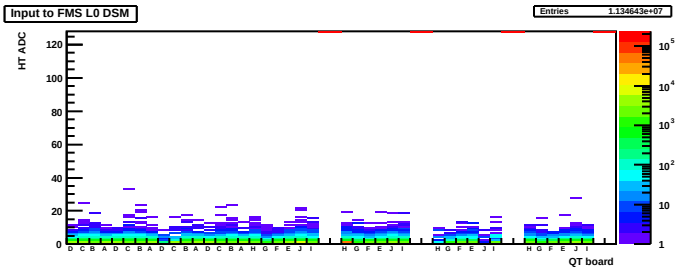

Input to FMS L0 DSM
Entries 4112
QT8(1) sum - simulated
QT board

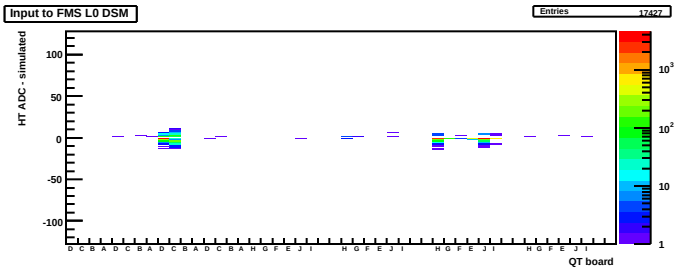

Input to FMS L0 DSM
Entries 1.134643e+07
QT8(2) sum
QT board

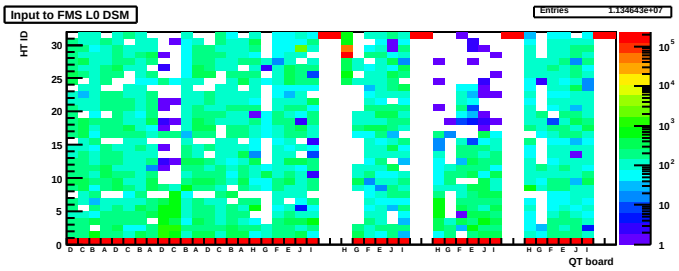

Input to FMS L0 DSM
Entries 169887
QT8(2) sum - simulated
QT board

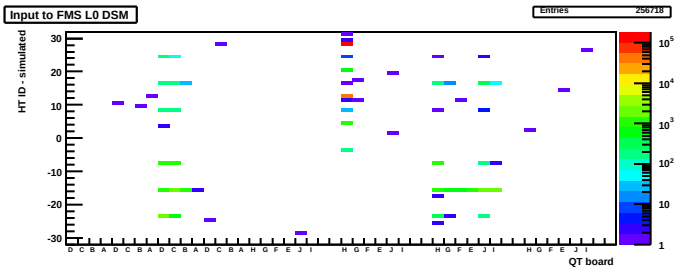

Input to FMS L0 DSM
Entries 1.134643e+07
QT8(3) sum
QT board

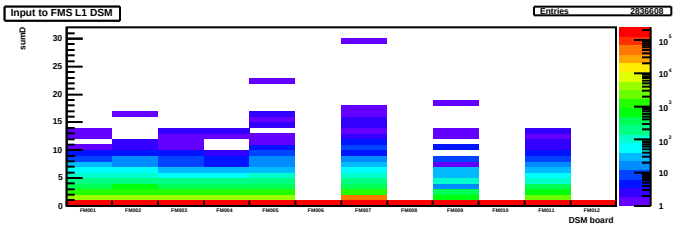

Input to FMS L0 DSM
Entries 227806
QT8(3) sum - simulated
QT board

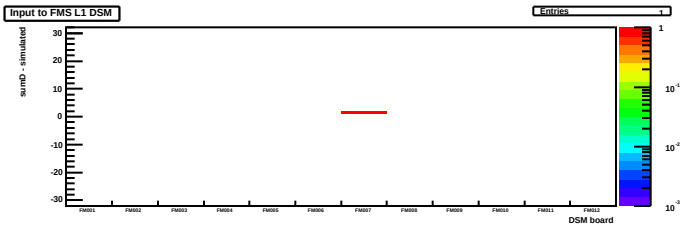

Input to FMS L0 DSM
Entries 1.134643e+07
HT ADC
QT board

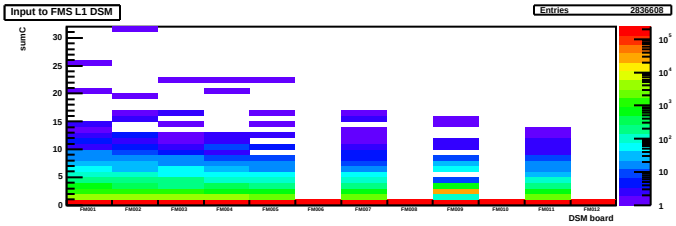

Input to FMS L0 DSM
Entries 17427
HT ADC - simulated
QT board

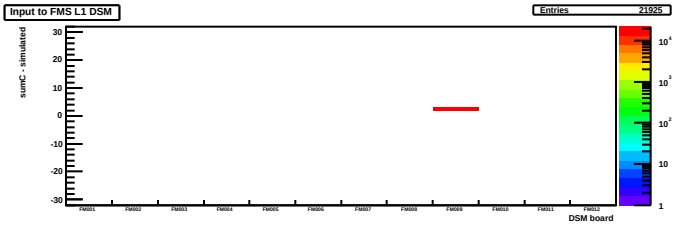

Input to FMS L0 DSM
Entries 1.134643e+07
HT ID
QT board

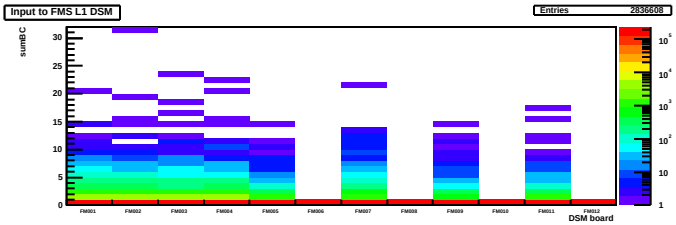

Input to FMS L0 DSM
Entries 256718
HT ID - simulated
QT board

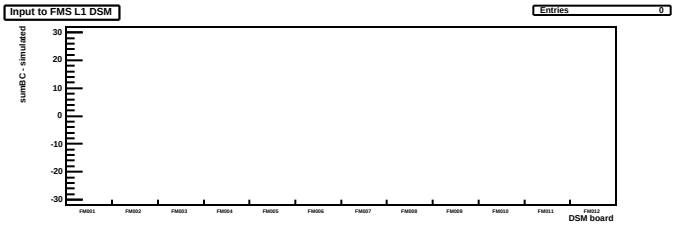

Input to FMS L1 DSM
Entries 2836608
sumD
DSM board

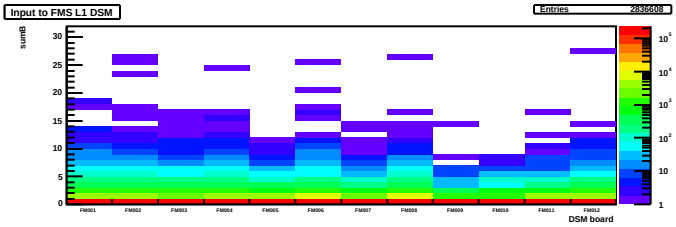

Input to FMS L1 DSM
Entries 1
sumD - simulated
DSM board

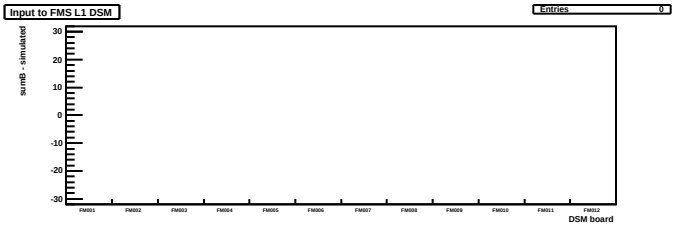

Input to FMS L1 DSM
Entries 2836608
sumC
DSM board

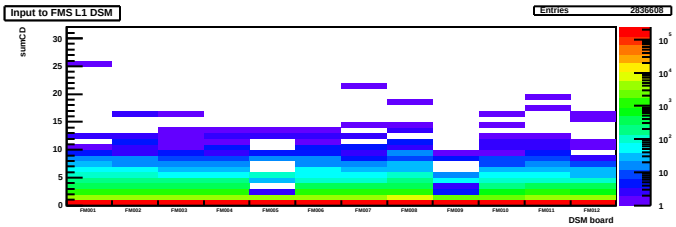

Input to FMS L1 DSM
Entries 21925
sumC - simulated
DSM board

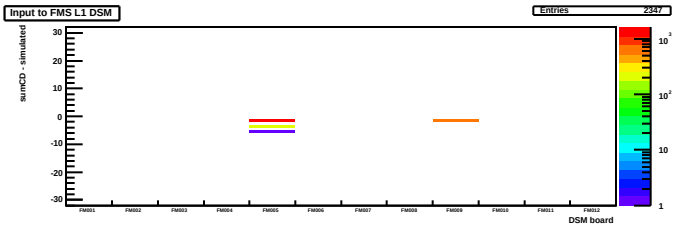

Input to FMS L1 DSM
Entries 2836608
sumBC
DSM board

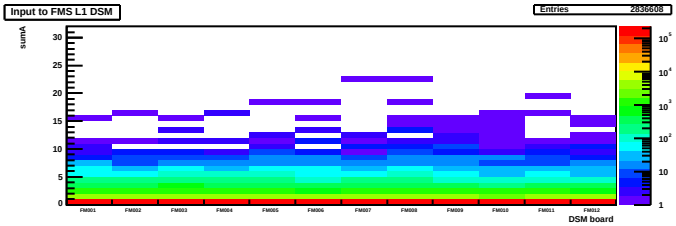

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

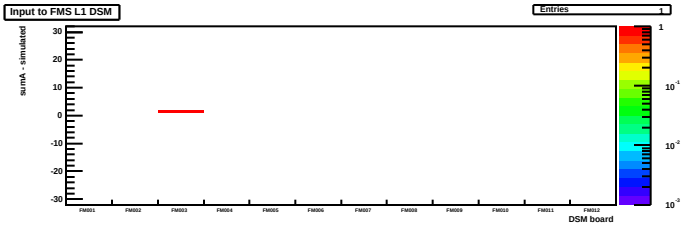

Input to FMS L1 DSM
Entries 2836608
sumB
DSM board

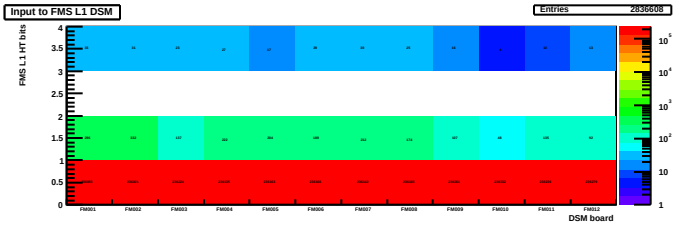

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

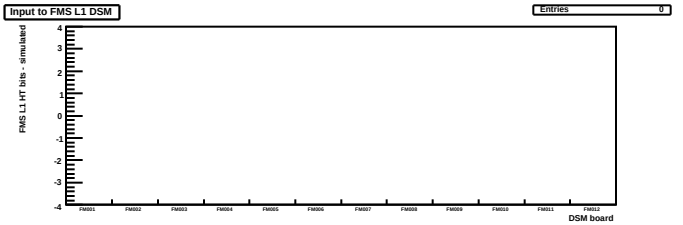

Input to FMS L1 DSM
Entries 2836608
sumCD
DSM board

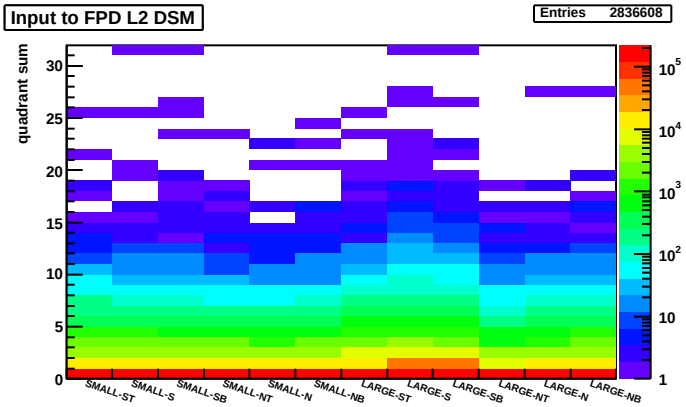

Input to FMS L1 DSM
Entries 2347
sumCD - simulated
DSM board

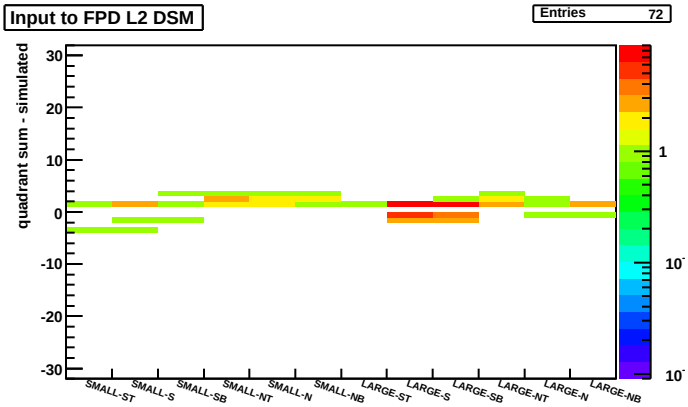

Input to FMS L1 DSM
Entries 2836608
sumA
DSM board

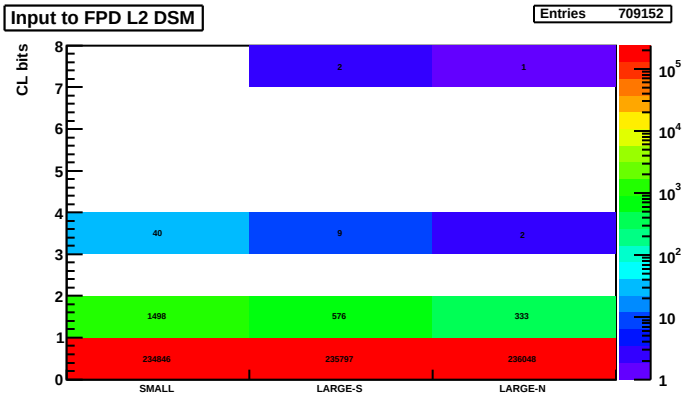

Input to FMS L1 DSM
Entries 1
sumA - simulated
DSM board

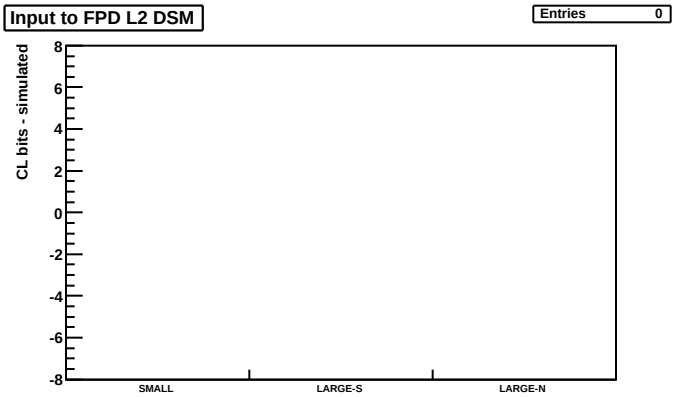

Input to FMS L1 DSM
Entries 2836608
FMS L1 HT bits
DSM board

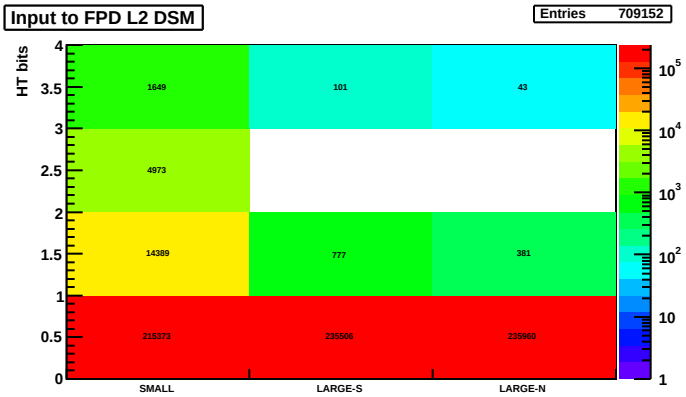

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

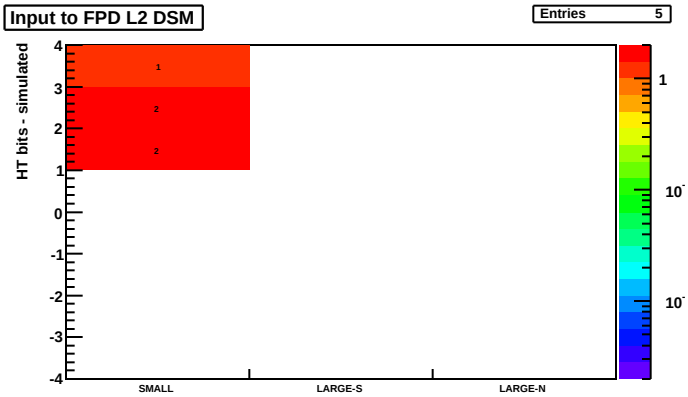

Input to FPD L2 DSM
Entries 2836608
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

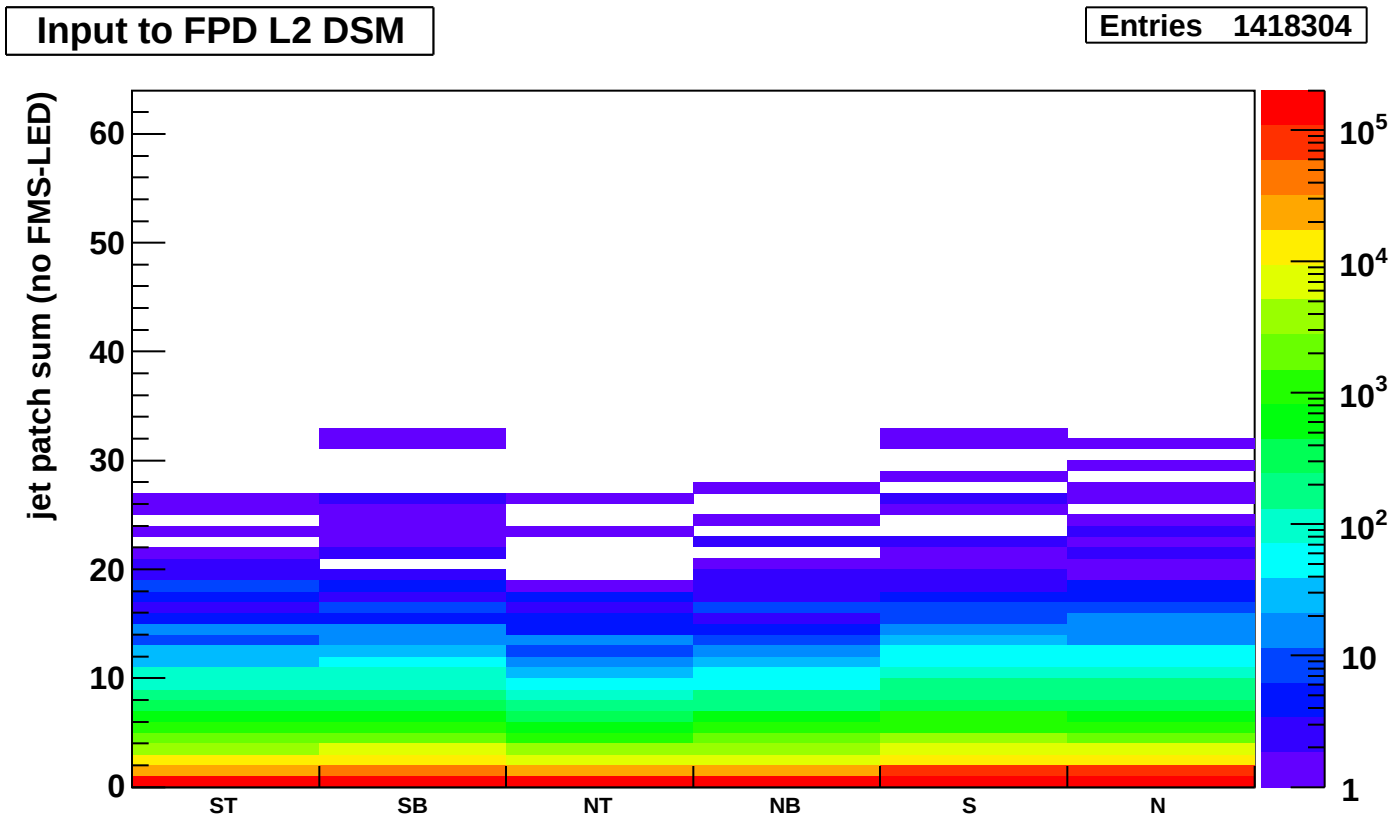

Input to FPD L2 DSM
Entries 72
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

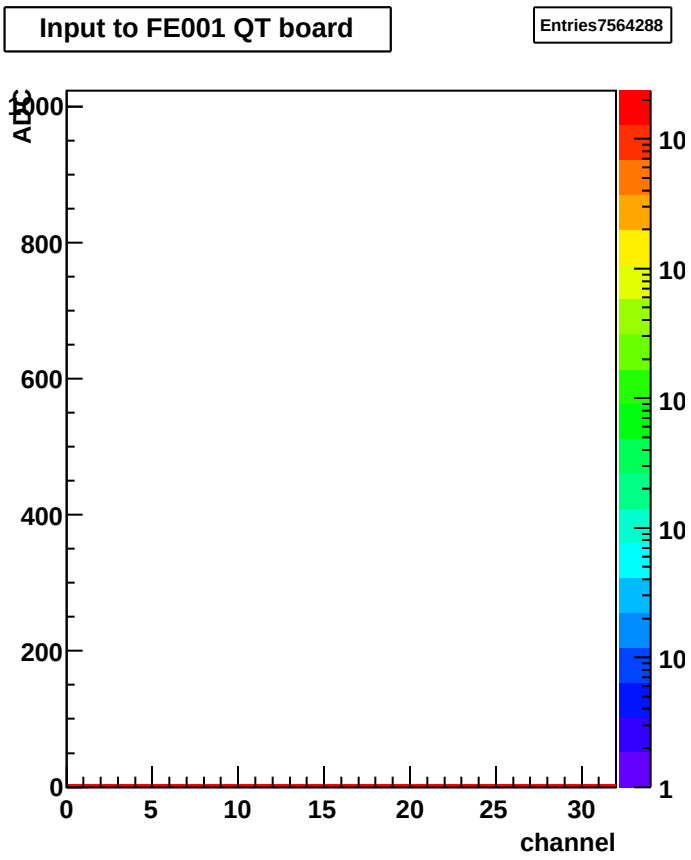

Input to FPD L2 DSM
Entries 709152
CL bits
2
1
40
9
2
1498
576
333
234846
235797
236048
SMALL
LARGE-S
LARGE-N

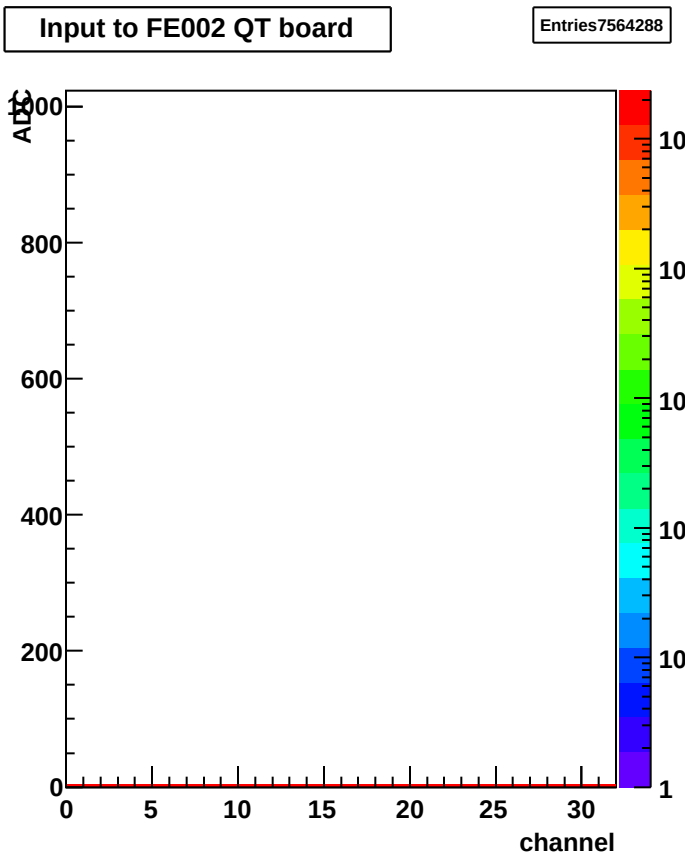

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

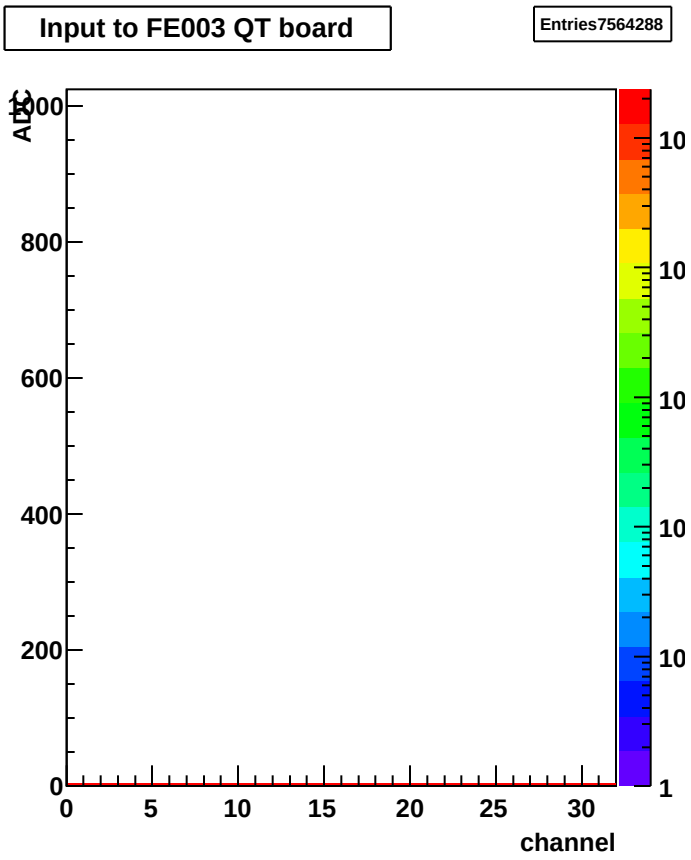

Input to FPD L2 DSM
Entries 709152
HT bits
1649
101
43
4973
14389
777
381
215373
235506
235960
SMALL
LARGE-S
LARGE-N

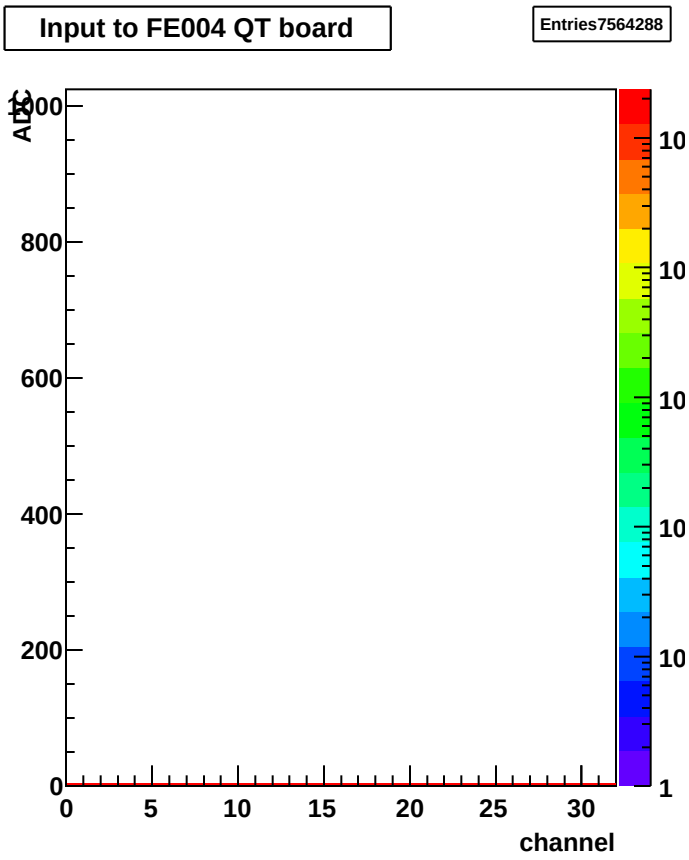

Input to FPD L2 DSM
Entries 5
HT bits - simulated
1
2
2
SMALL
LARGE-S
LARGE-N

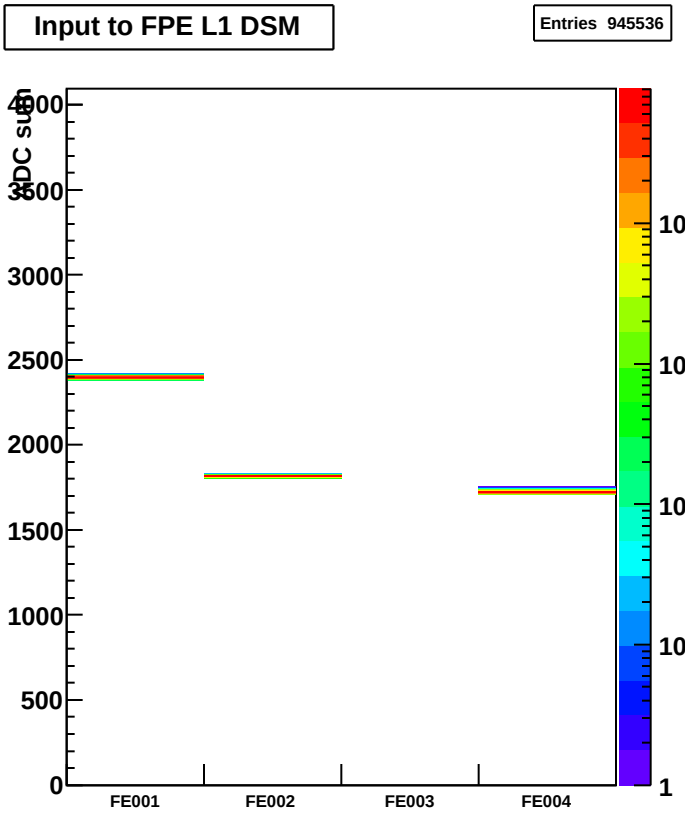

Input to FPD L2 DSM
Entries 1418304
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

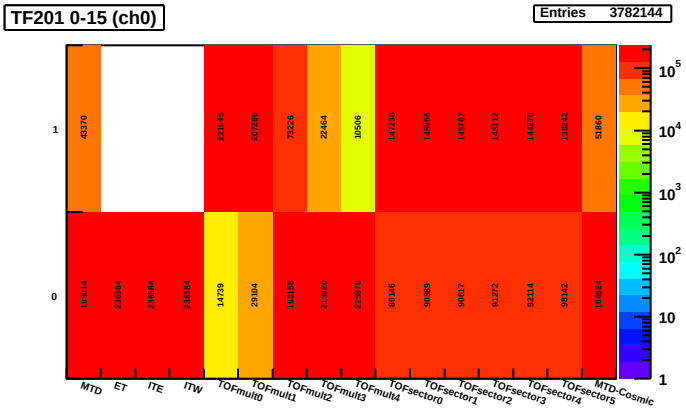

Input to FE001 QT board
Entries7564288
ADC
channel

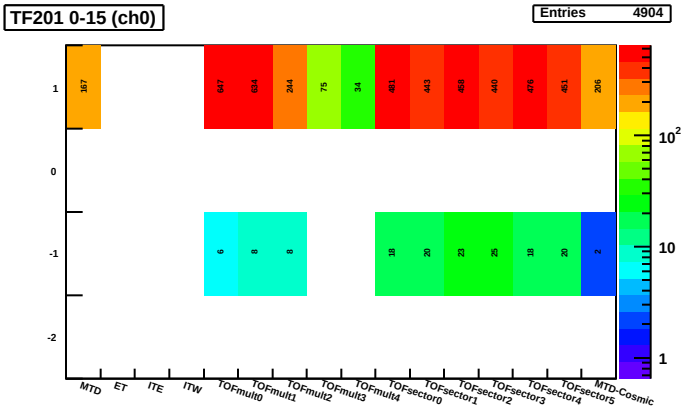

Input to FE002 QT board
Entries7564288
ADC
channel

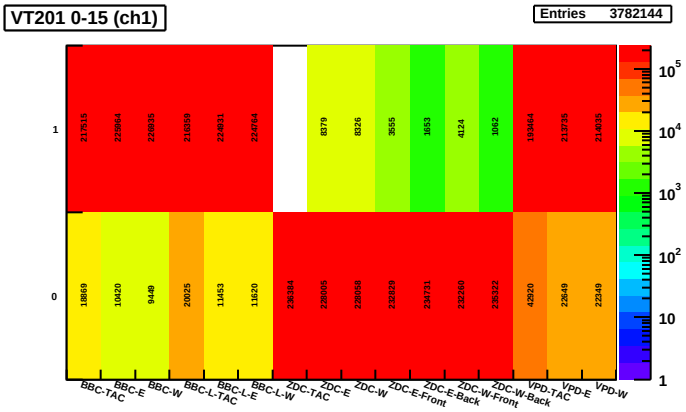

Input to FE003 QT board
Entries7564288
ADC
channel

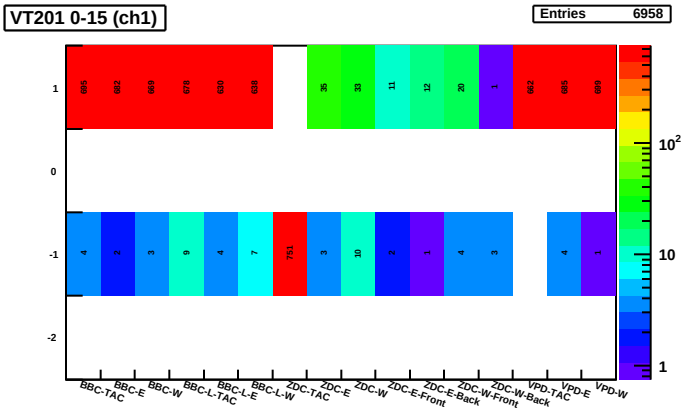

Input to FE004 QT board
Entries7564288
ADC
channel

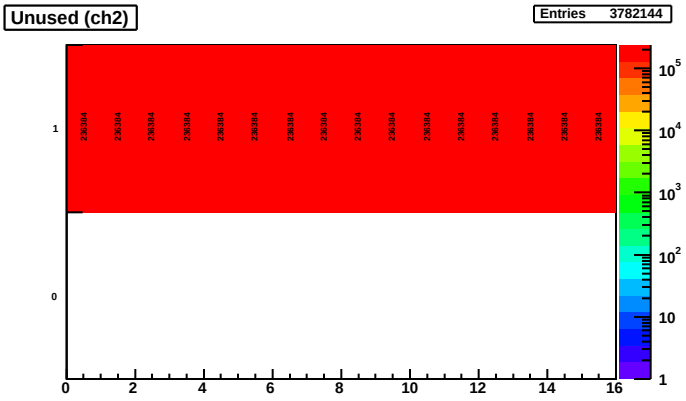

Input to FPE L1 DSM
Entries 945536
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

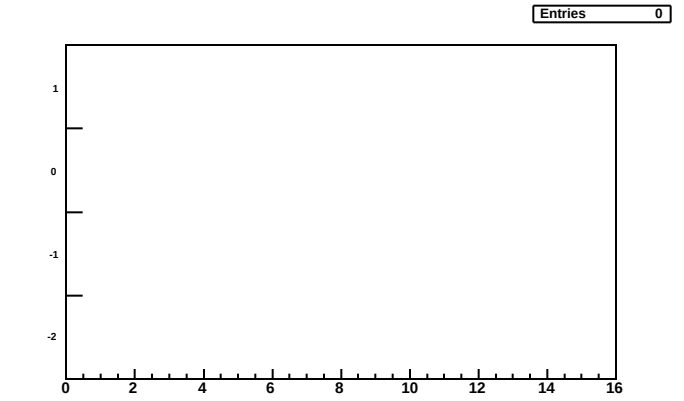

TF201 0-15 (ch0)
Entries 3782144
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 4904
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 3782144
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 6958
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 3782144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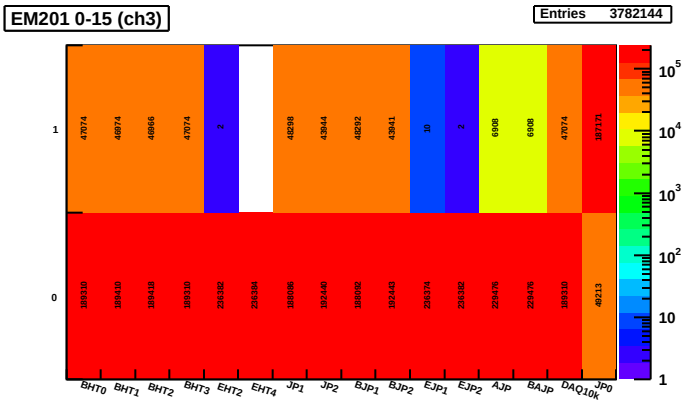
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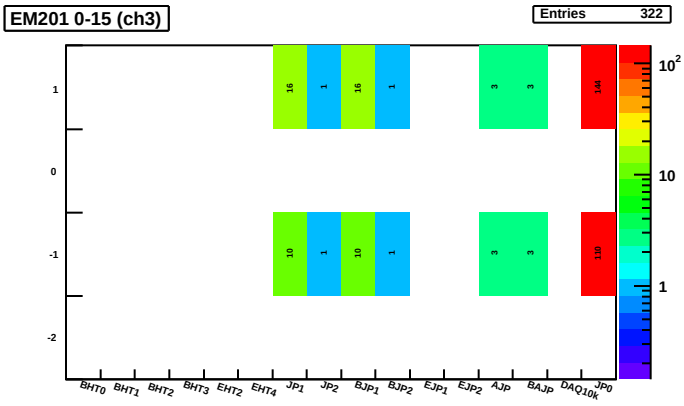
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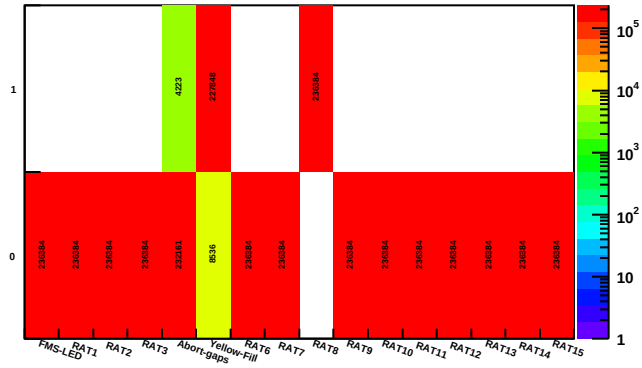
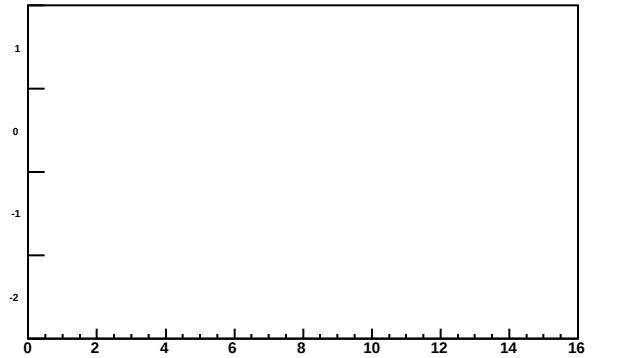
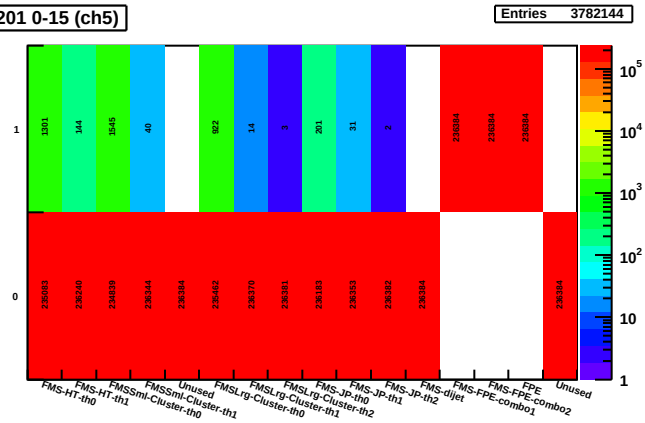
RAT board (ch4)





FP201 0-15 (ch5)



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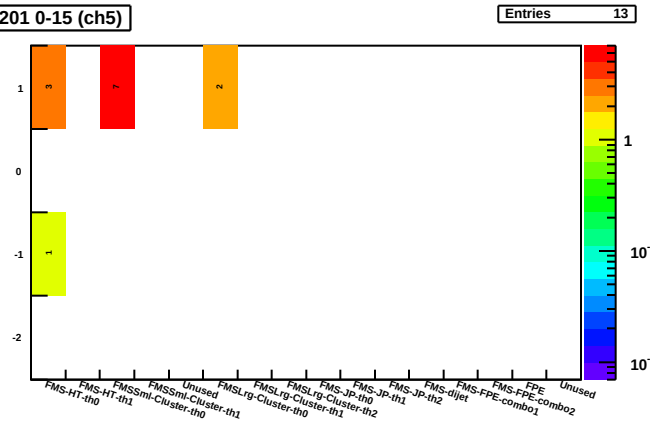

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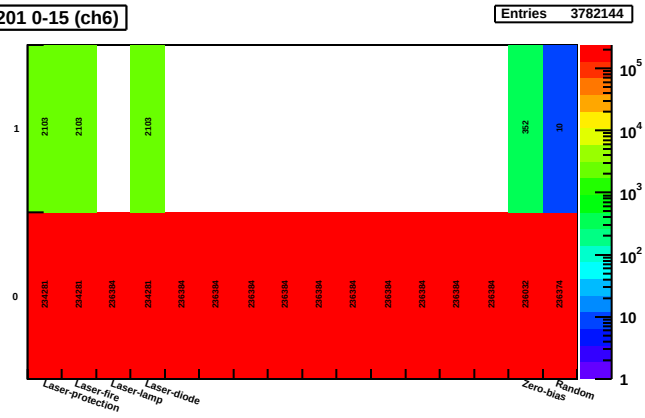

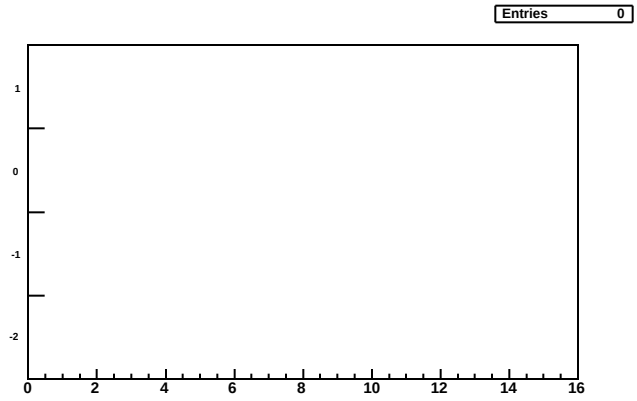
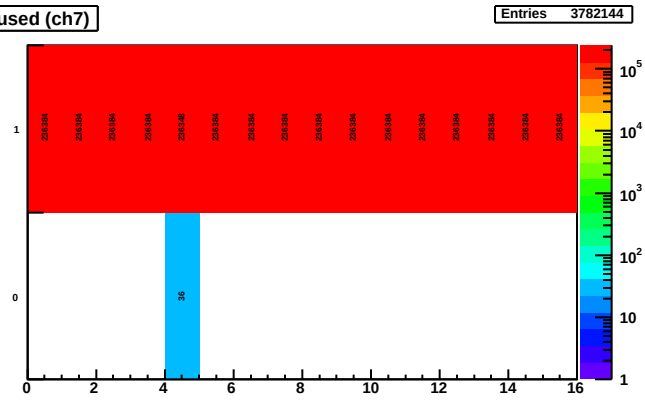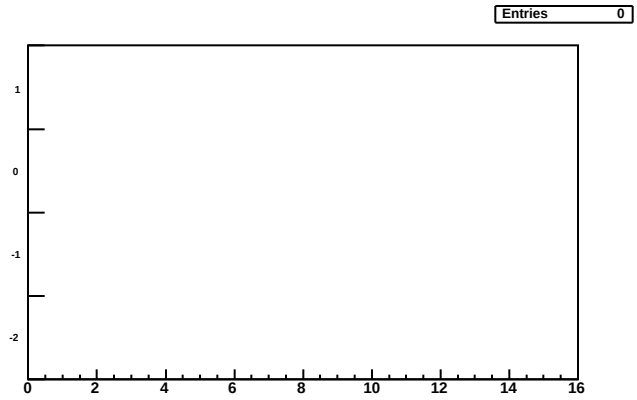
Unused (ch7)