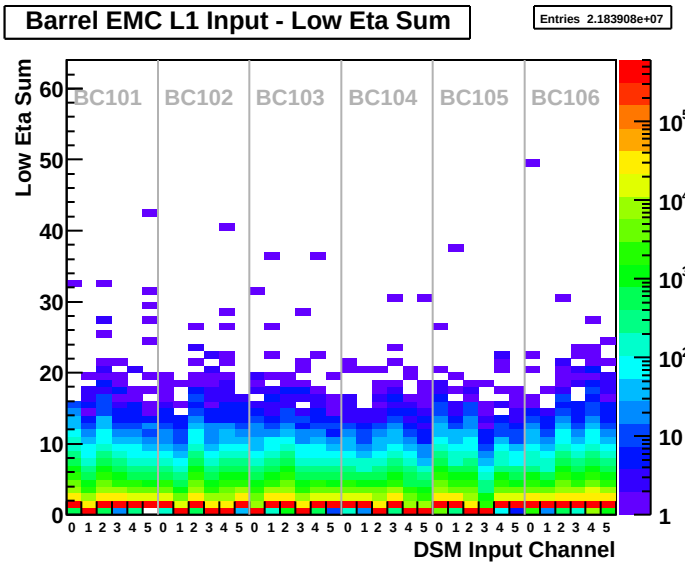
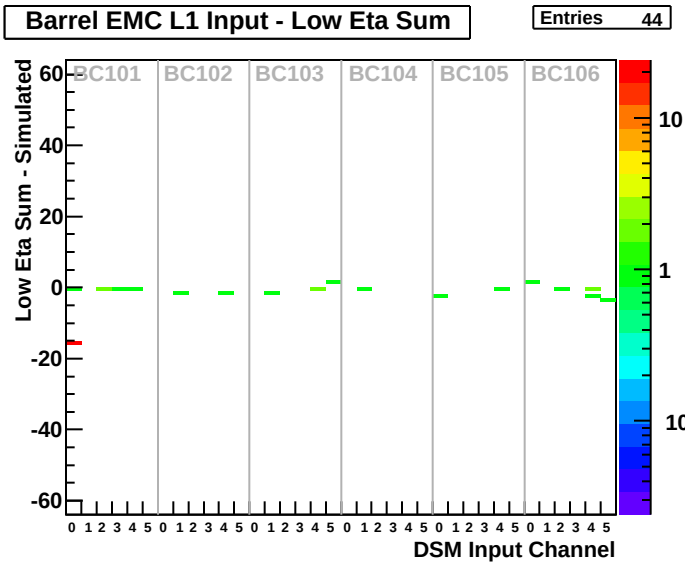
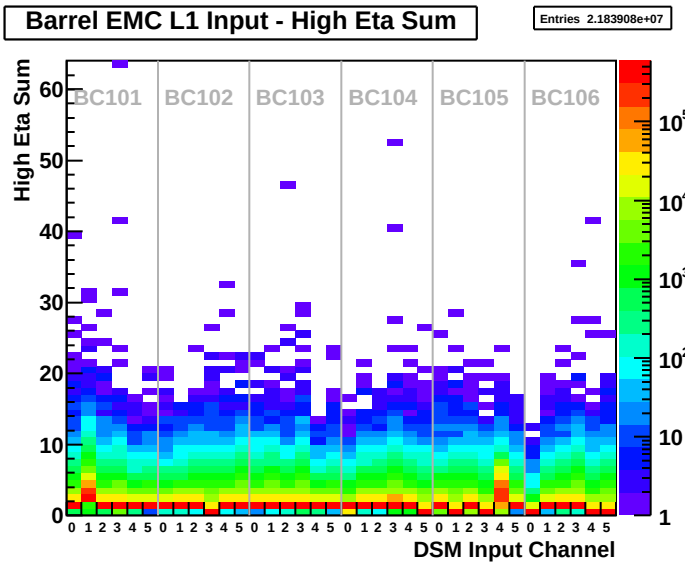
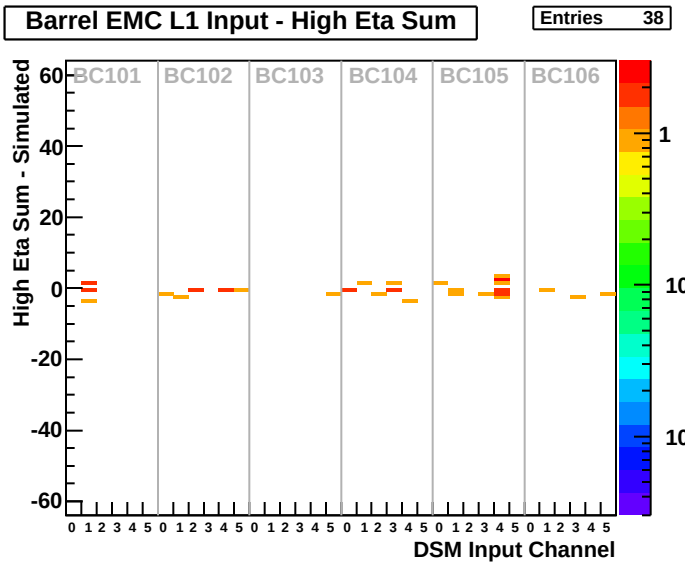
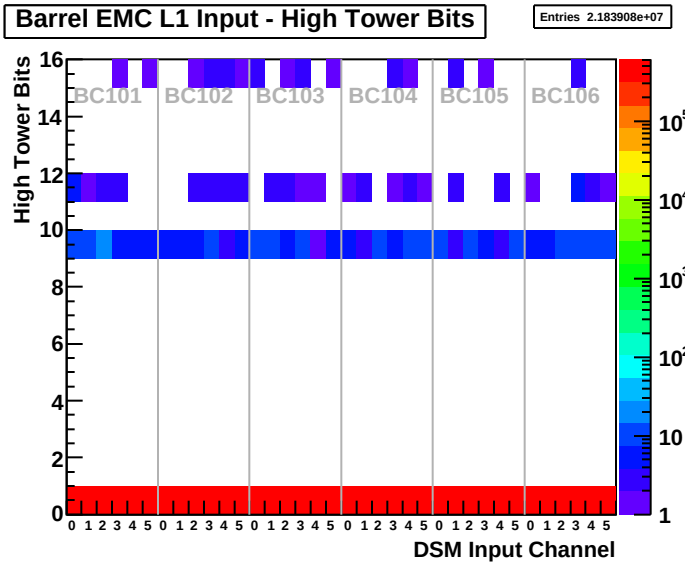
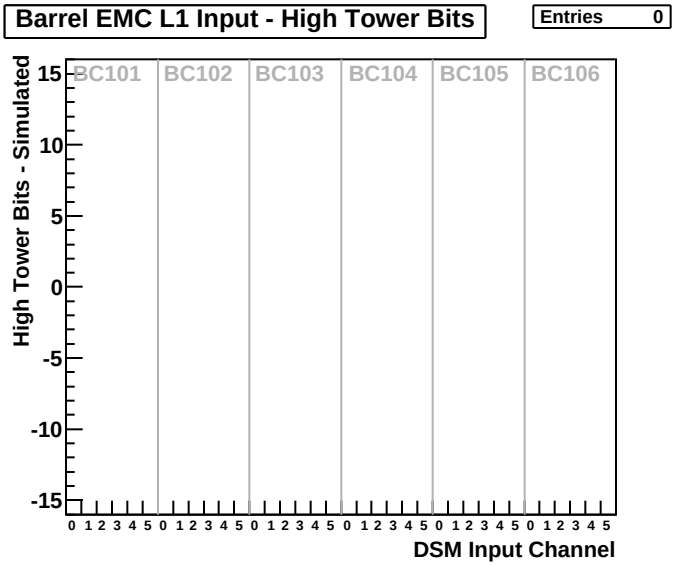

Barrel EMC L1 Input - Low Eta Sum
Entries 2.183908e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

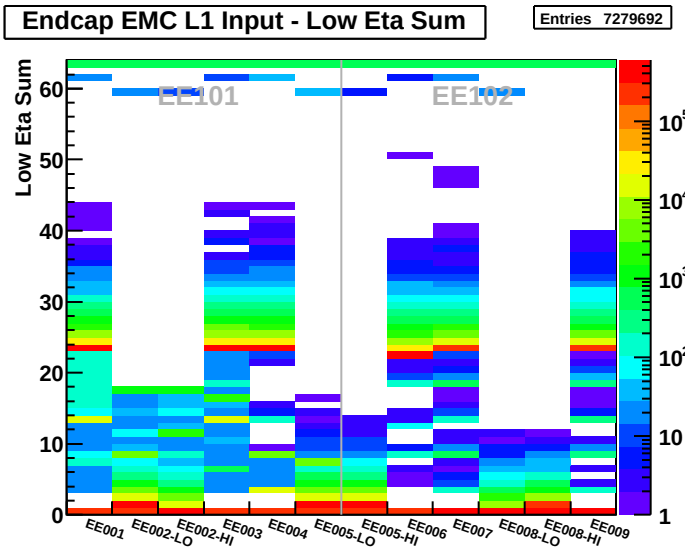

Barrel EMC L1 Input - Low Eta Sum
Entries 44
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

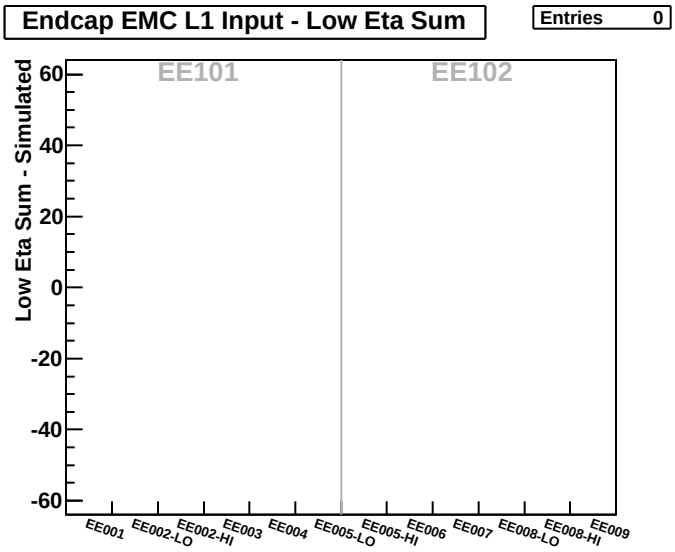

Barrel EMC L1 Input - High Eta Sum
Entries 2.183908e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

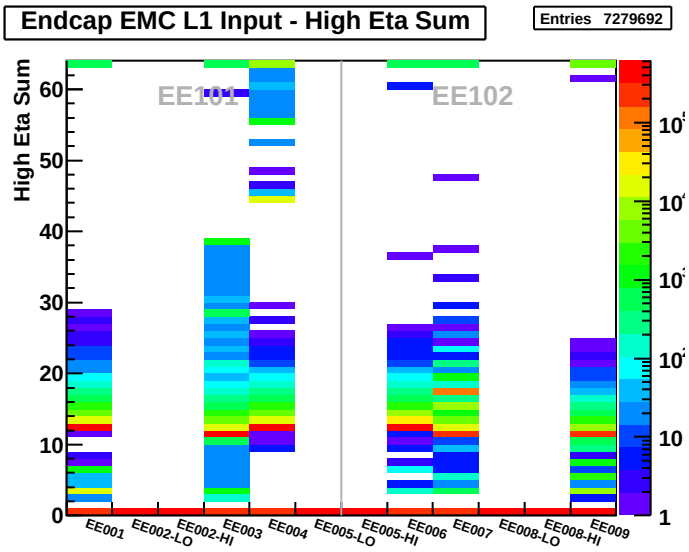

Barrel EMC L1 Input - High Eta Sum
Entries 38
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

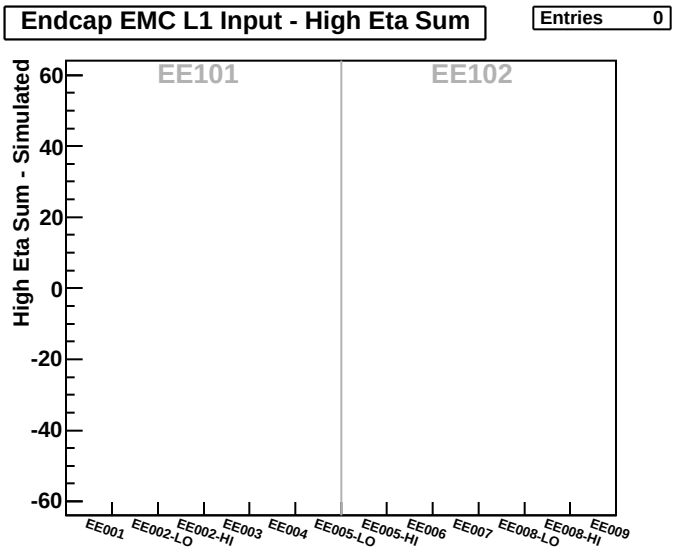

Barrel EMC L1 Input - High Tower Bits
Entries 2.183908e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

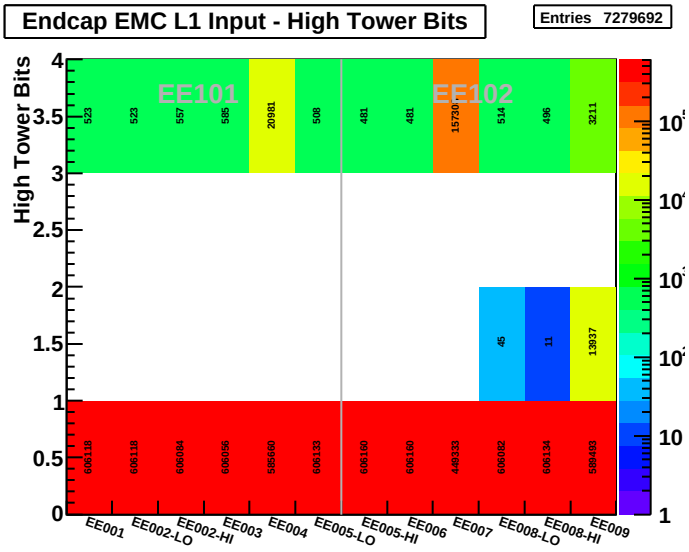

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

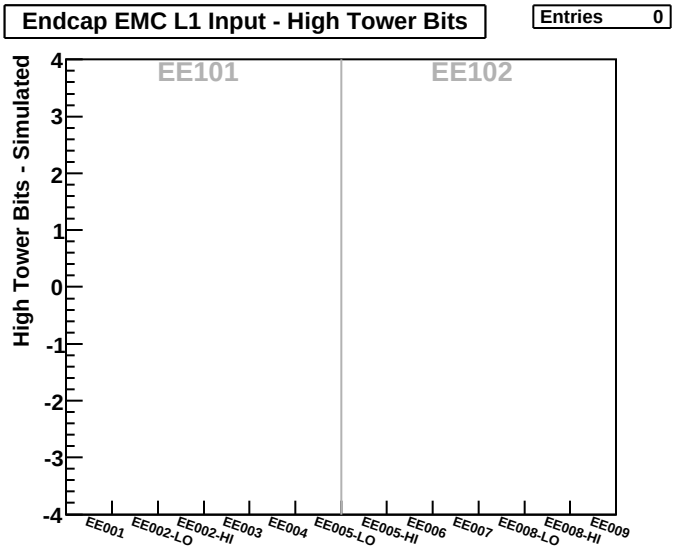

Endcap EMC L1 Input - Low Eta Sum
Entries 7279692
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

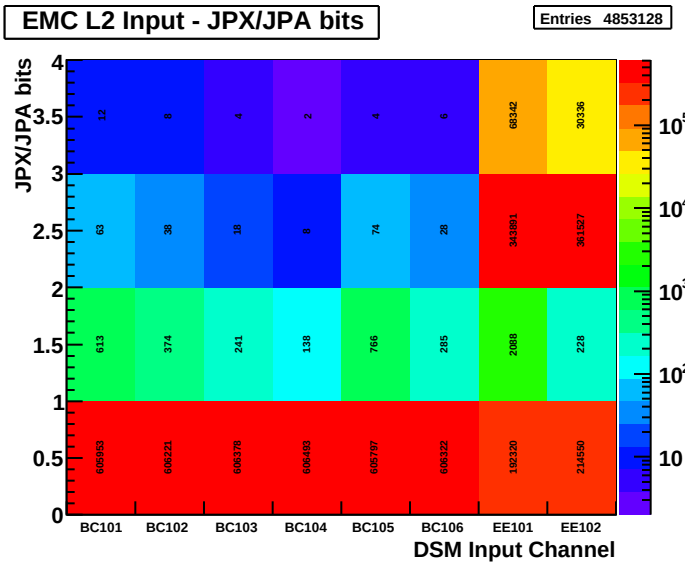

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

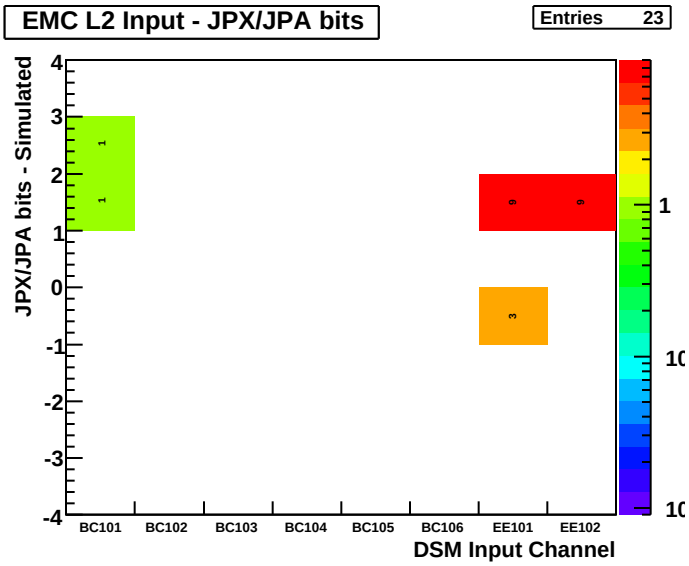

Endcap EMC L1 Input - High Eta Sum
Entries 7279692
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

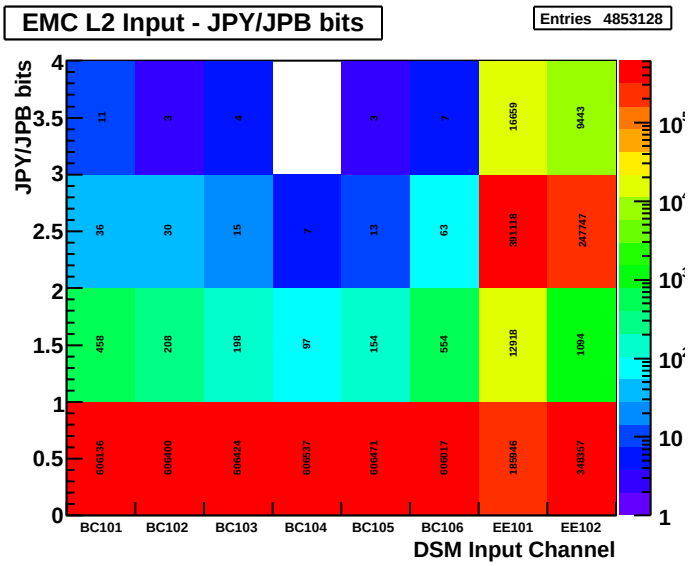

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

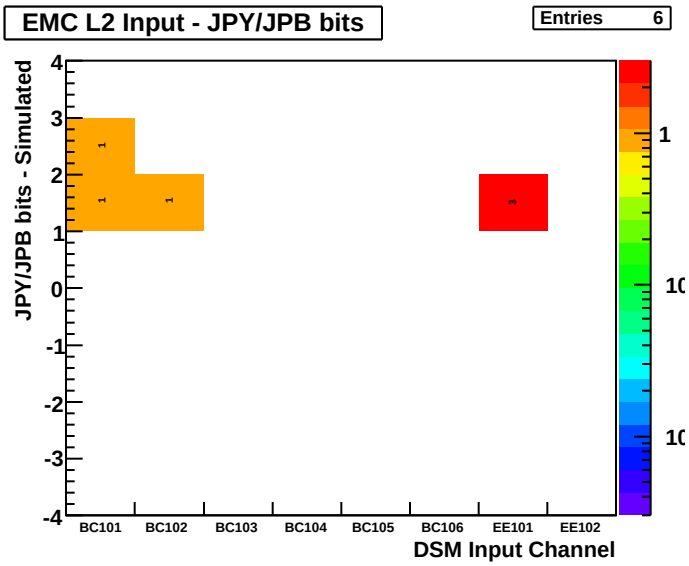

Endcap EMC L1 Input - High Tower Bits
Entries 7279692
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

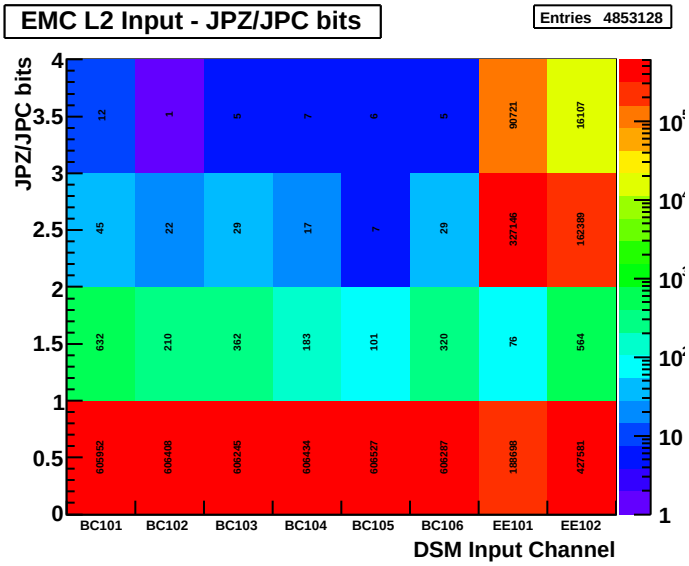

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

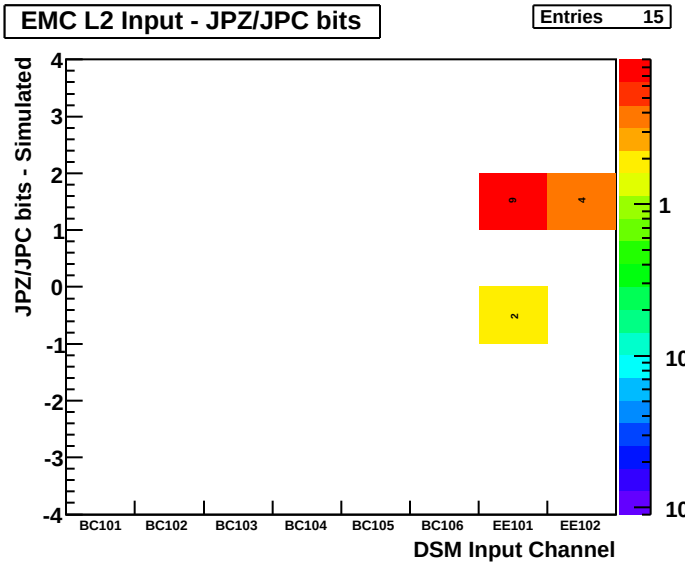

EMC L2 Input - JPX/JPA bits
Entries 4853128
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
12 8 4 2 4 6 68342 30336
63 38 18 8 74 28 343891 361527
613 374 241 138 766 285 2088 228
605953 606221 606378 606493 605797 606322 192320 214550

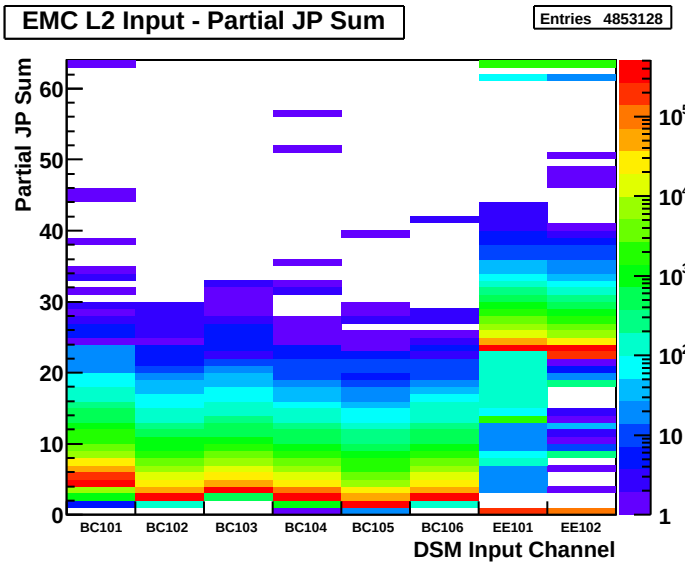

EMC L2 Input - JPX/JPA bits
Entries 23
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 9 9 3

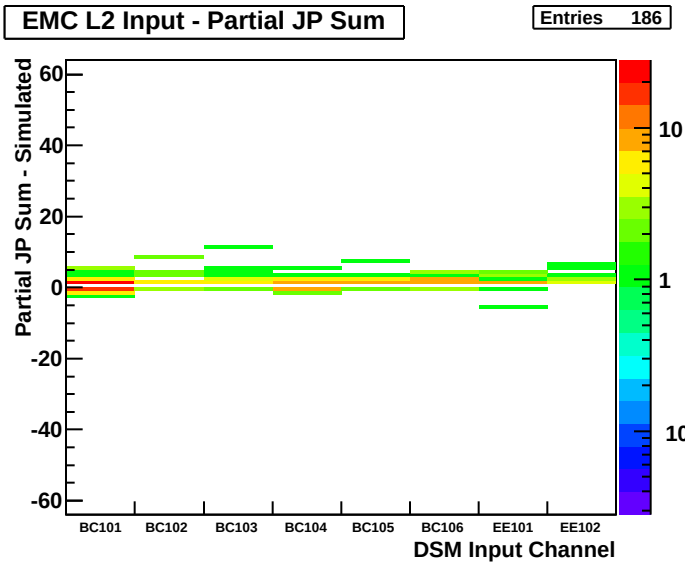

EMC L2 Input - JPY/JPB bits
Entries 4853128
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
11 3 4 3 7 16659 9443
36 30 15 7 13 63 391118 247747
458 208 198 97 154 554 12918 1094
606136 606400 606424 606537 606471 606017 185946 348357

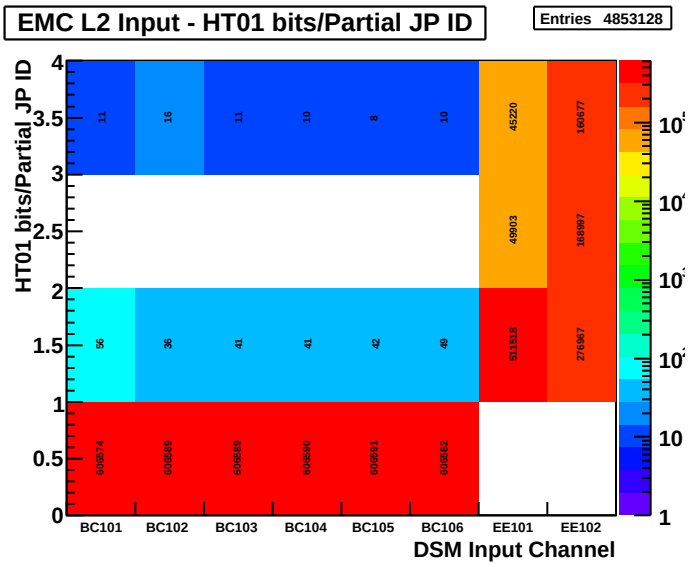

EMC L2 Input - JPY/JPB bits
Entries 6
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1 3

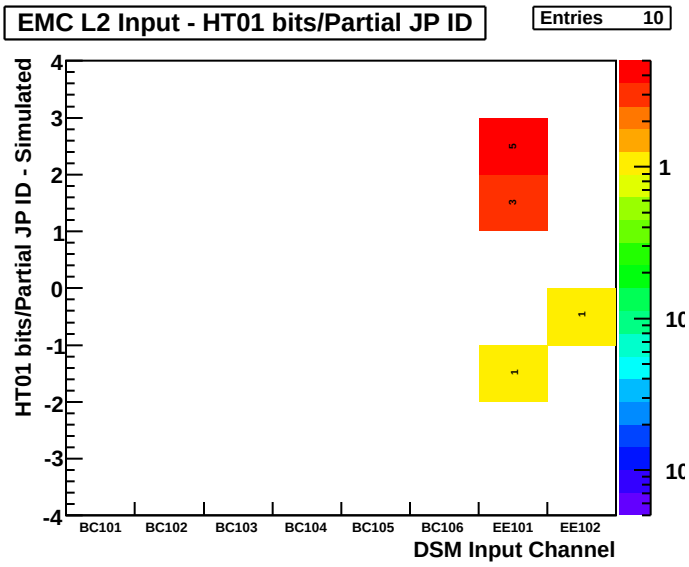

EMC L2 Input - JPZ/JPC bits
Entries 4853128
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
12 1 5 7 6 5 90721 16107
45 22 29 17 7 29 32146 162389
632 210 362 183 101 320 76 564
605952 606408 606245 606434 606527 606287 188698 427581

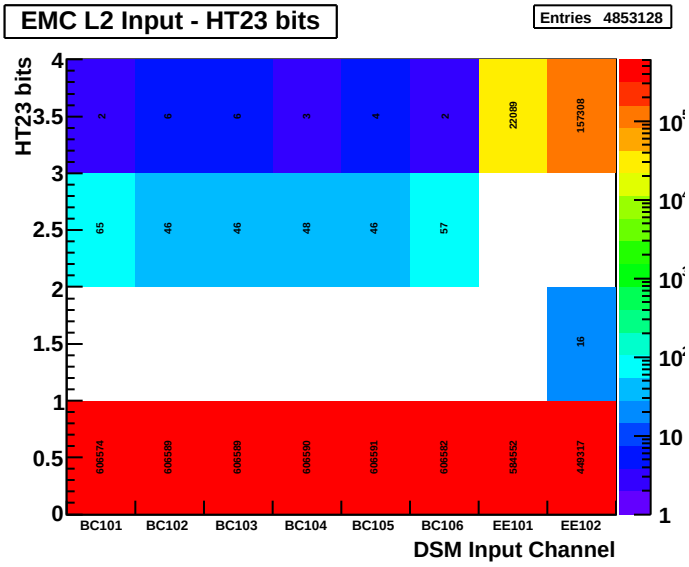

EMC L2 Input - JPZ/JPC bits
Entries 15
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9 4 2

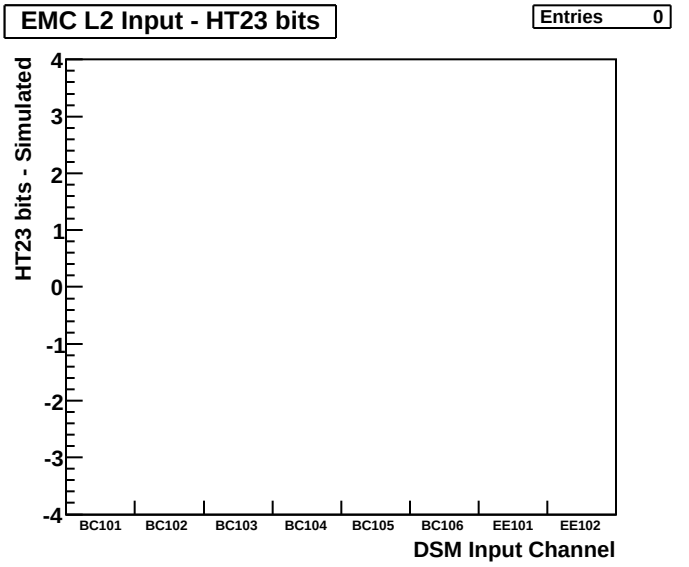

EMC L2 Input - Partial JP Sum
Entries 4853128
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

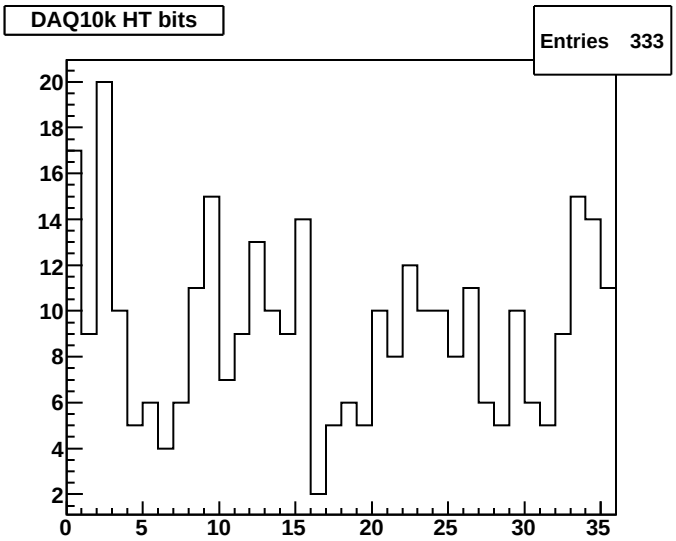

EMC L2 Input - Partial JP Sum
Entries 186
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

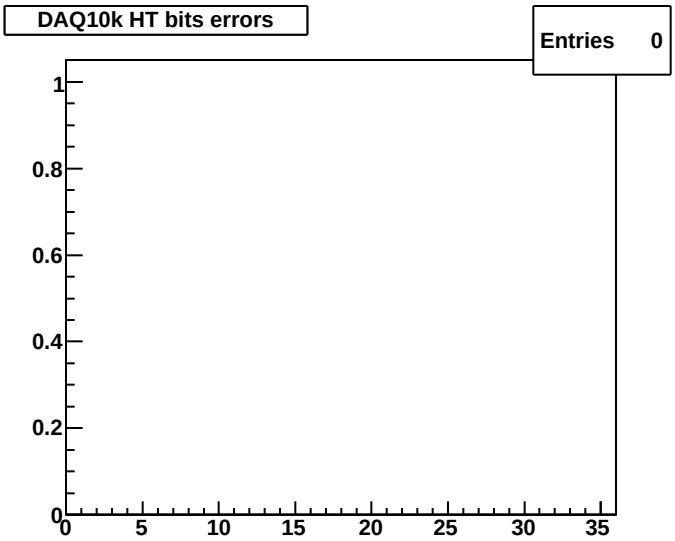

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4853128
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

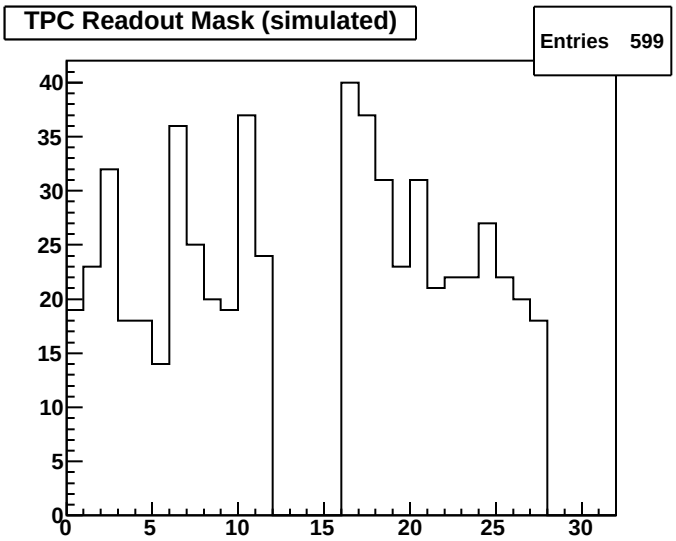

EMC L2 Input - HT01 bits/Partial JP ID
Entries 10
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

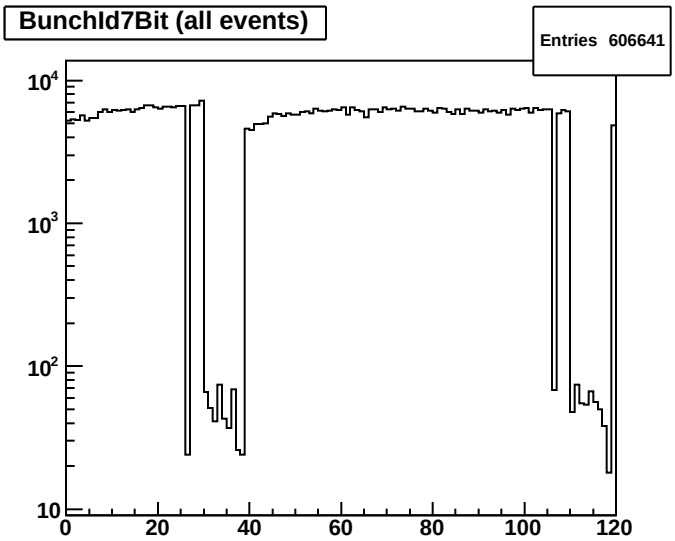

EMC L2 Input - HT23 bits
Entries 4853128
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

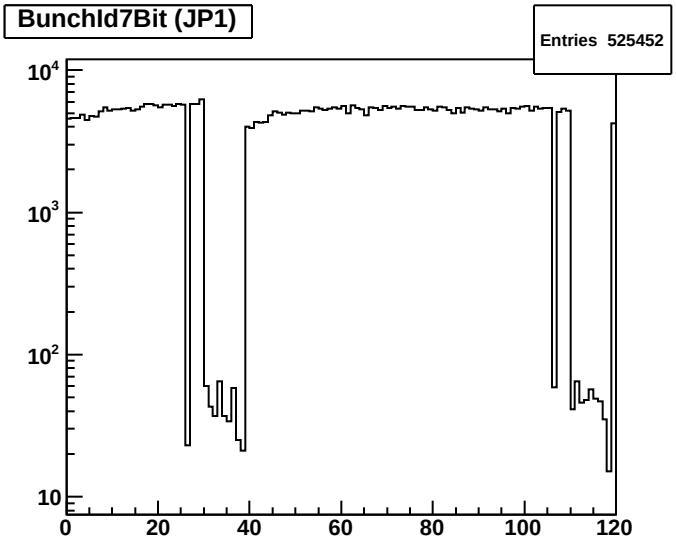

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

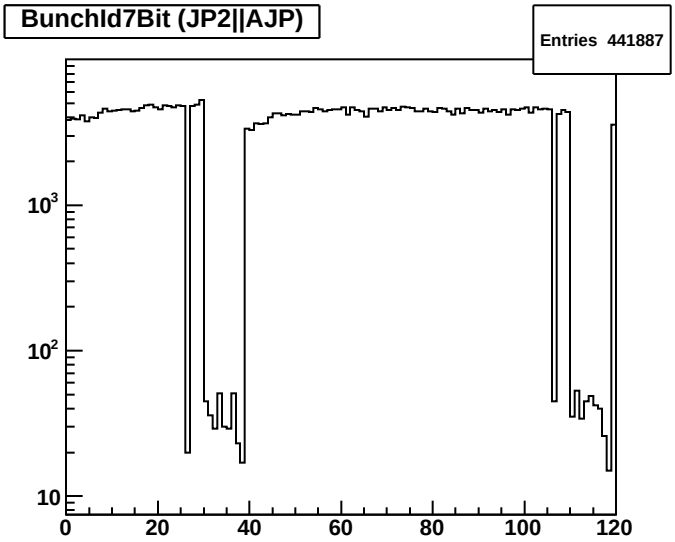

DAQ10k HT bits
Entries 333

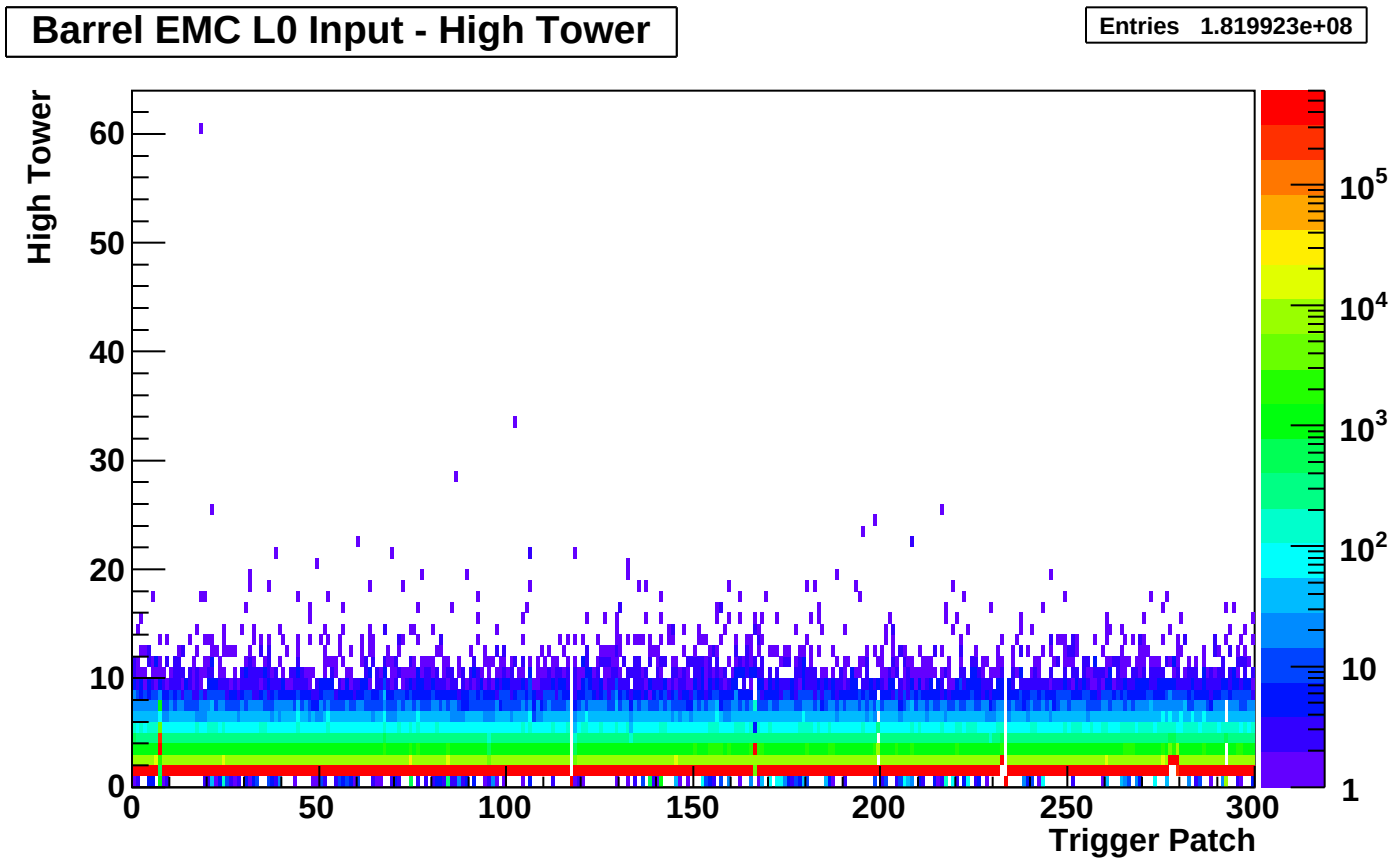

DAQ10k HT bits errors
Entries 0

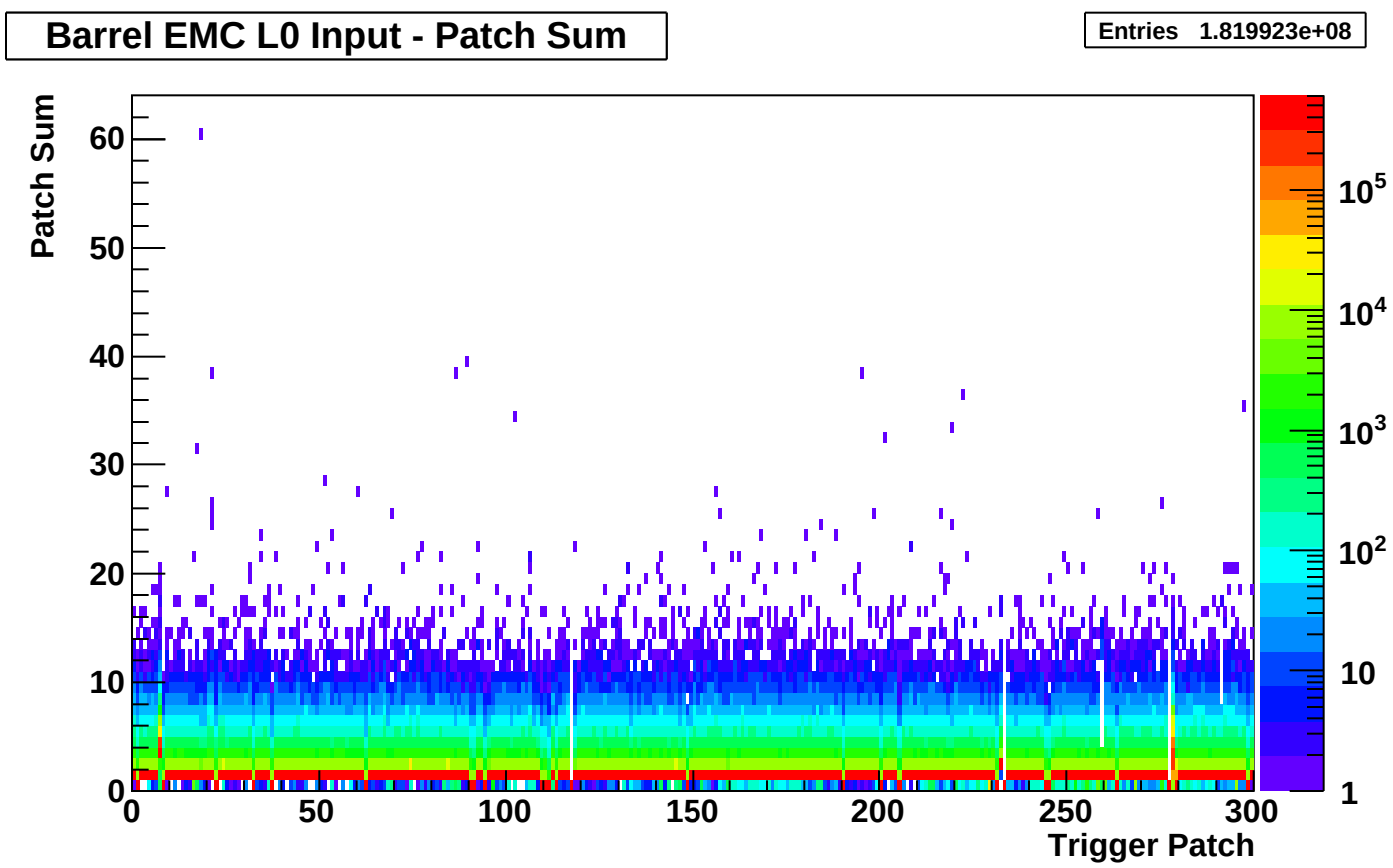

TPC Readout Mask (simulated)
Entries 599

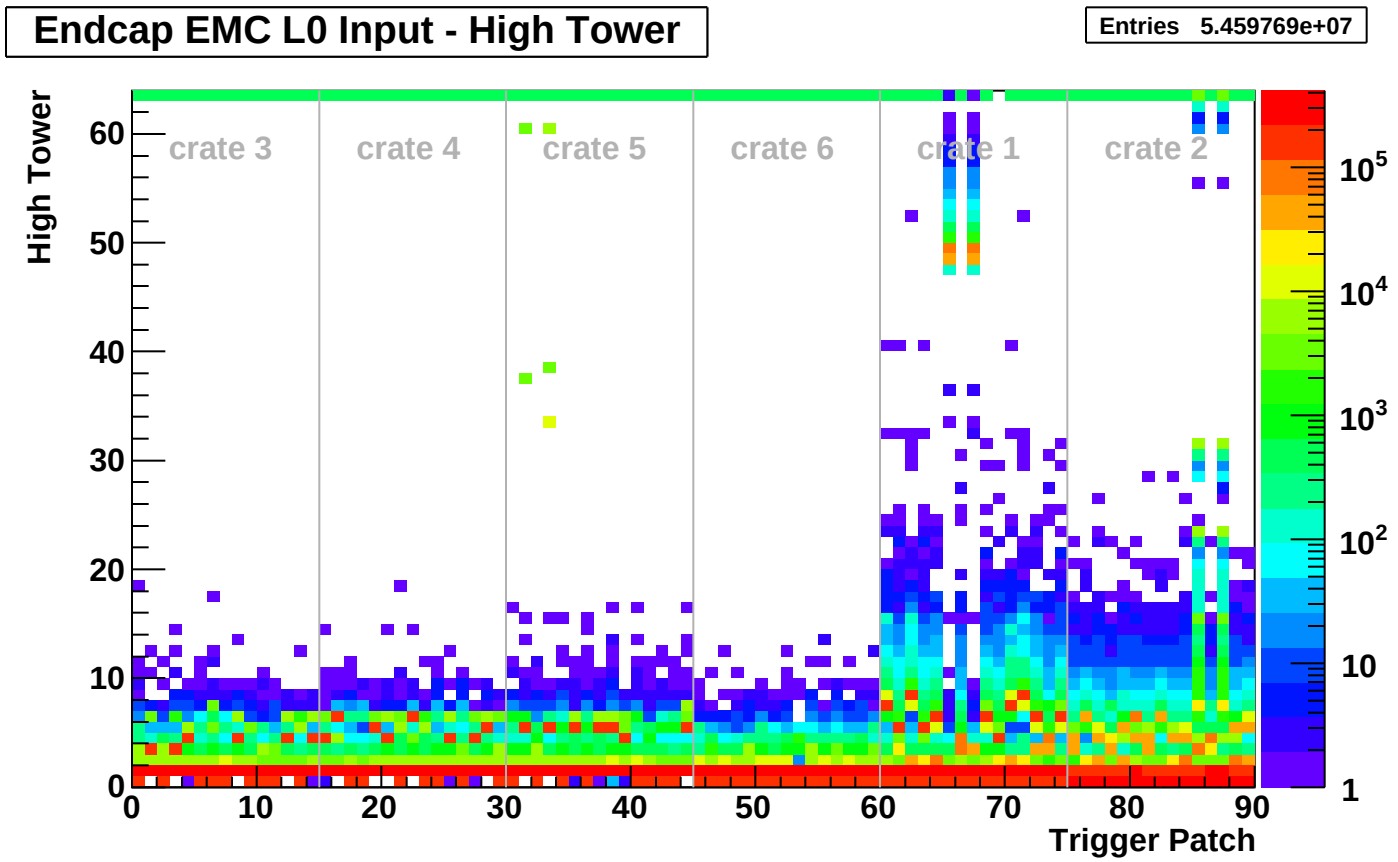

BunchId7Bit (all events)
Entries 606641

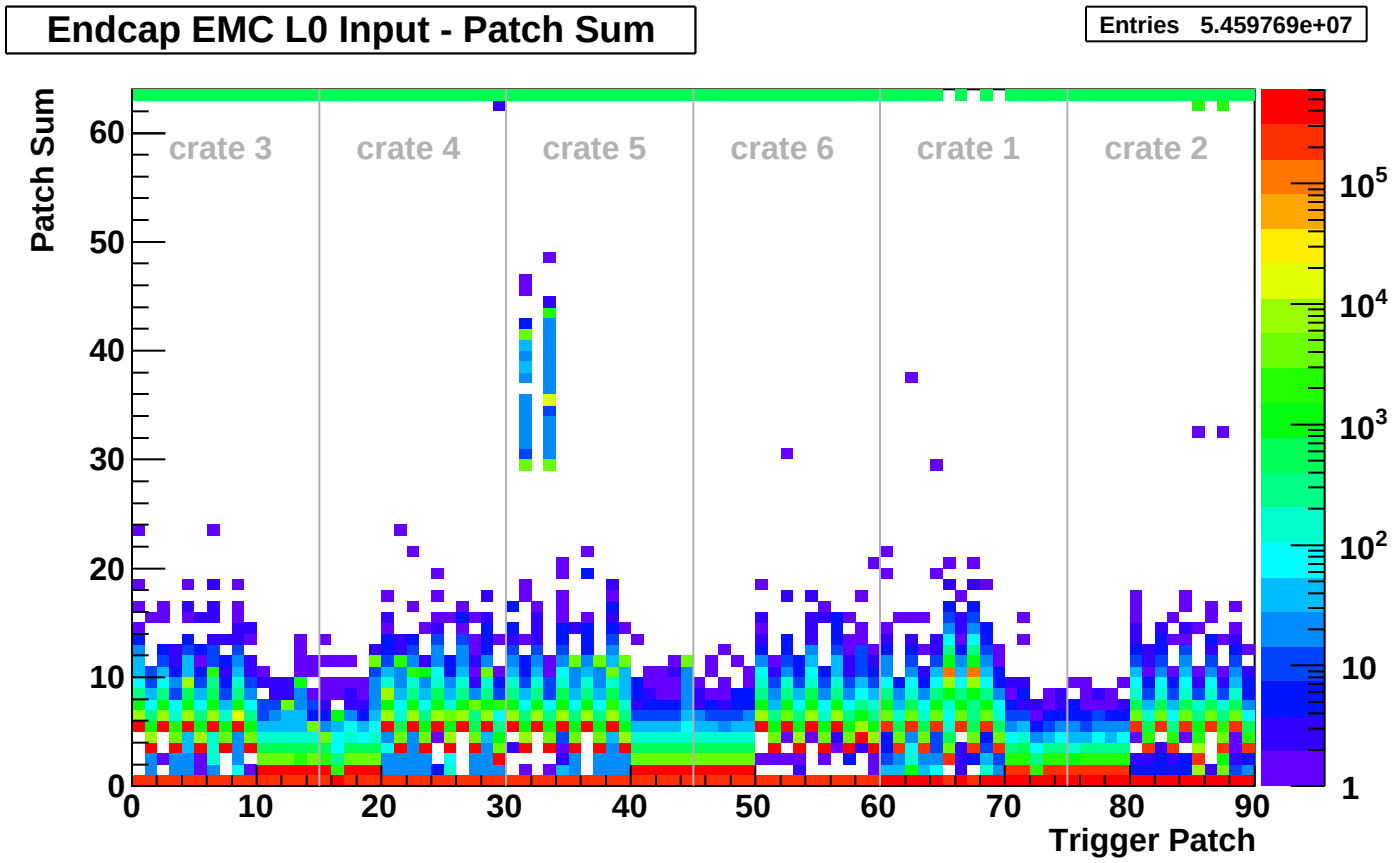

BunchId7Bit (JP1)
Entries 525452

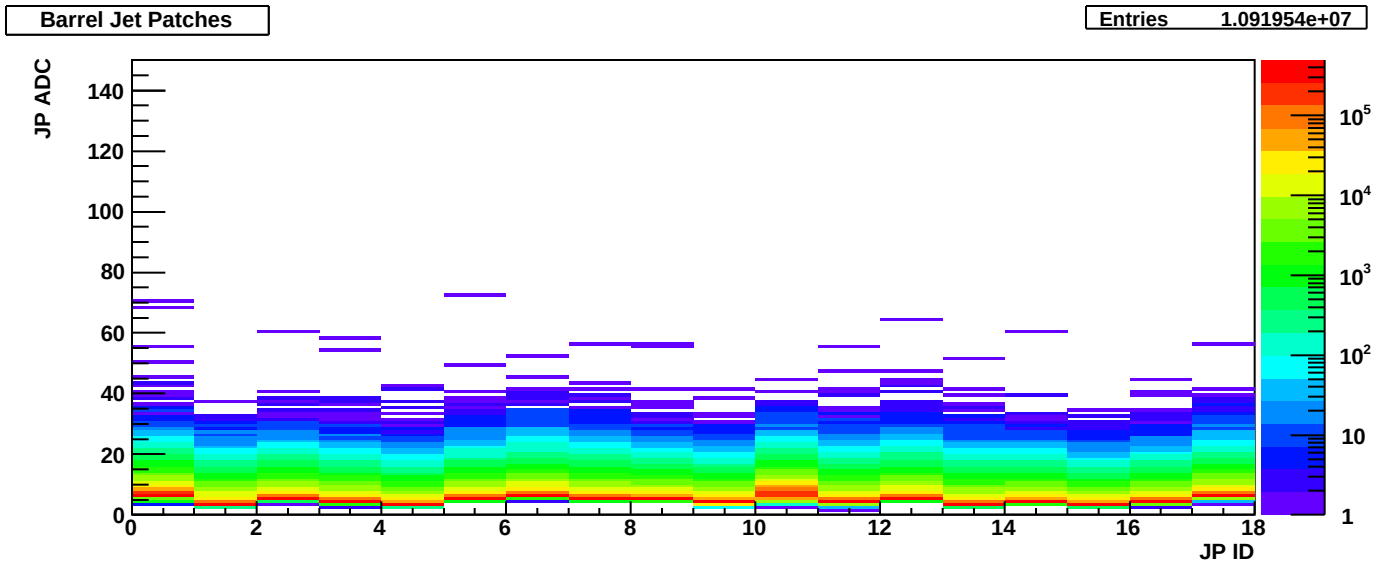

BunchId7Bit (JP2||AJP)
Entries 441887

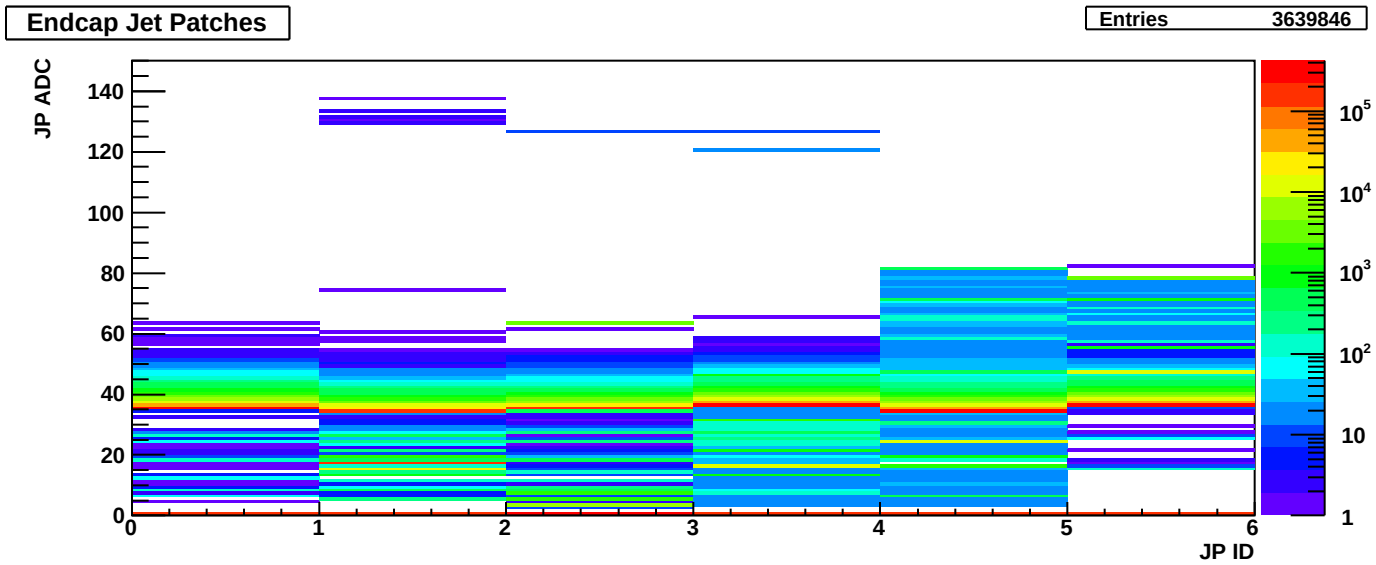

Barrel EMC L0 Input - High Tower
Entries 1.819923e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

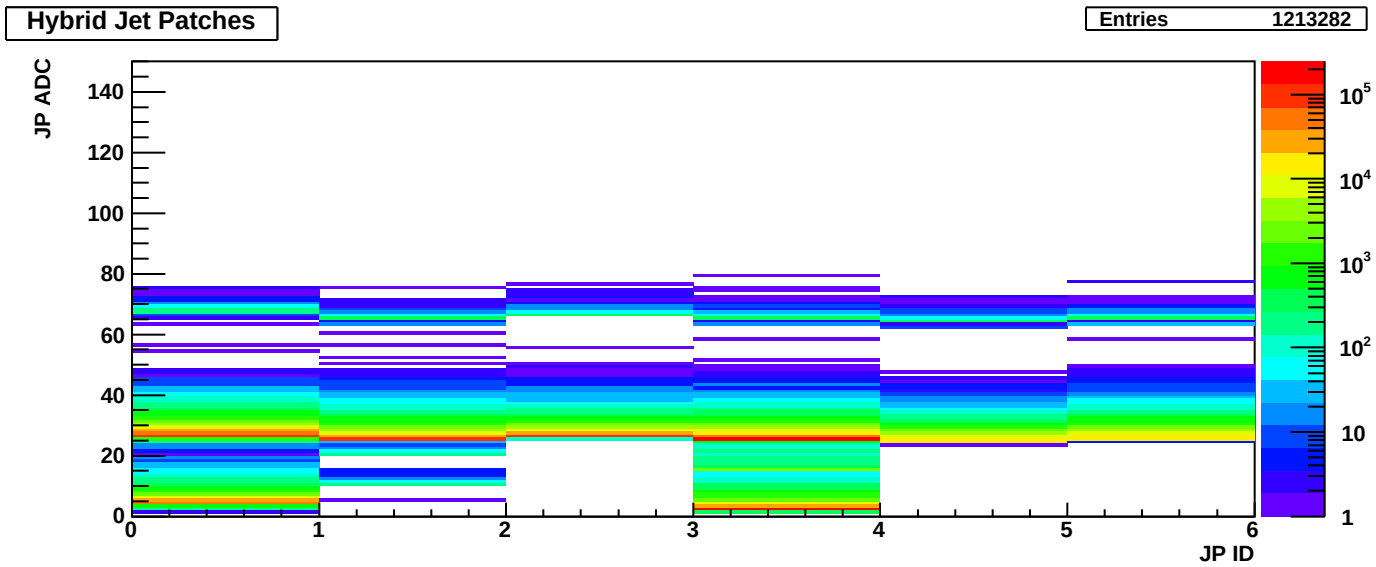

Barrel EMC L0 Input - Patch Sum
Entries 1.819923e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

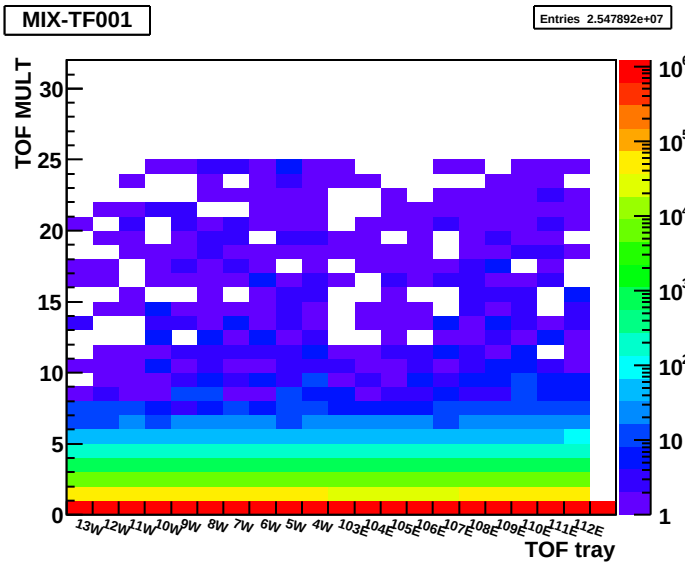

Endcap EMC L0 Input - High Tower
Entries 5.459769e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

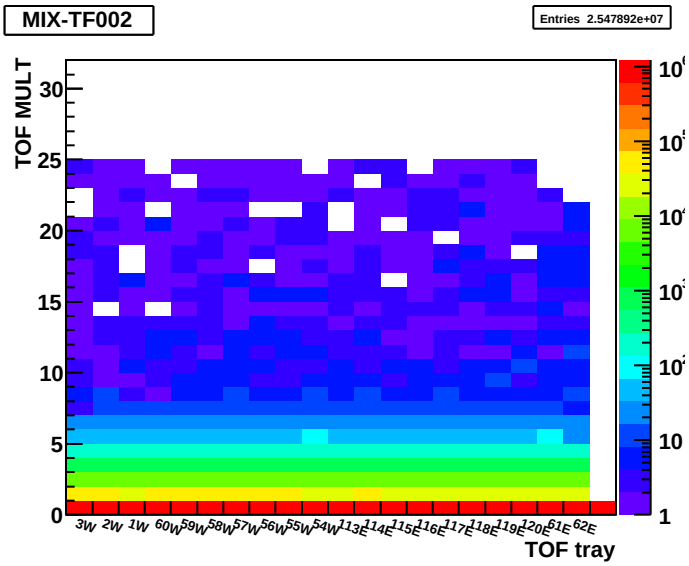

Endcap EMC L0 Input - Patch Sum
Entries 5.459769e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

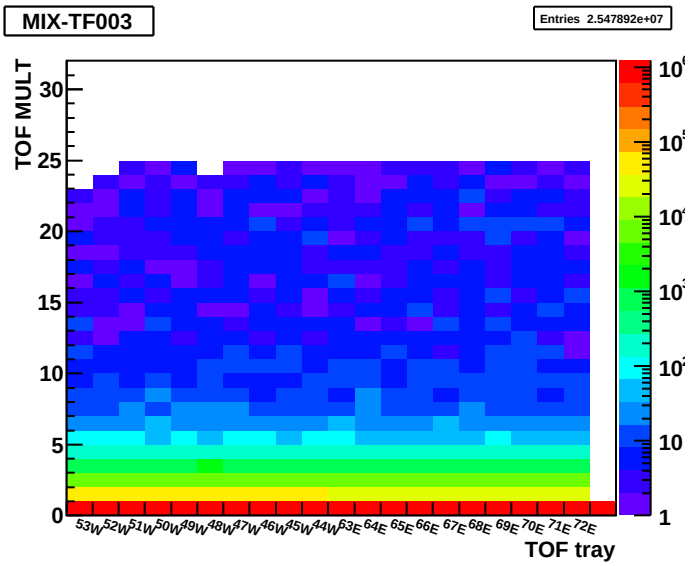

Barrel Jet Patches
Entries 1.091954e+07
JP ADC
JP ID

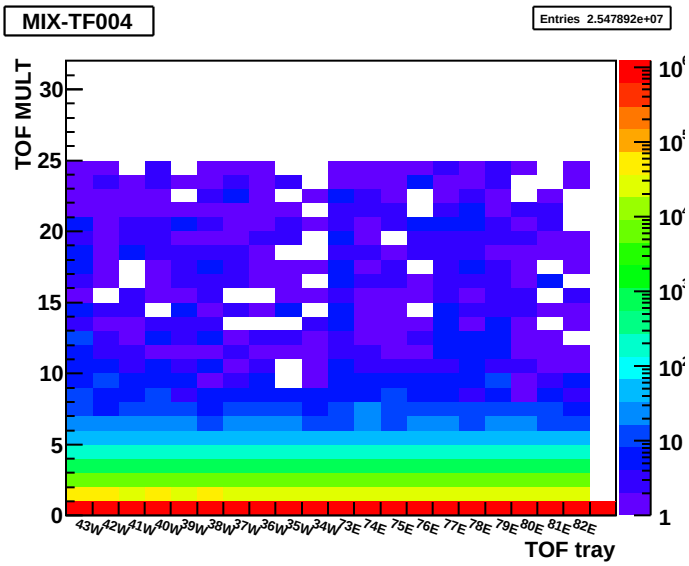

Endcap Jet Patches
Entries 3639846
JP ADC
JP ID

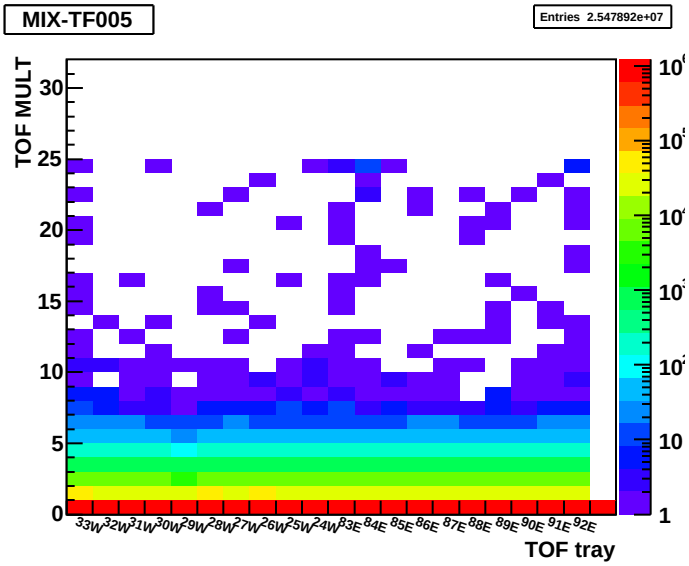

Hybrid Jet Patches
Entries 1213282
JP ADC
JP ID

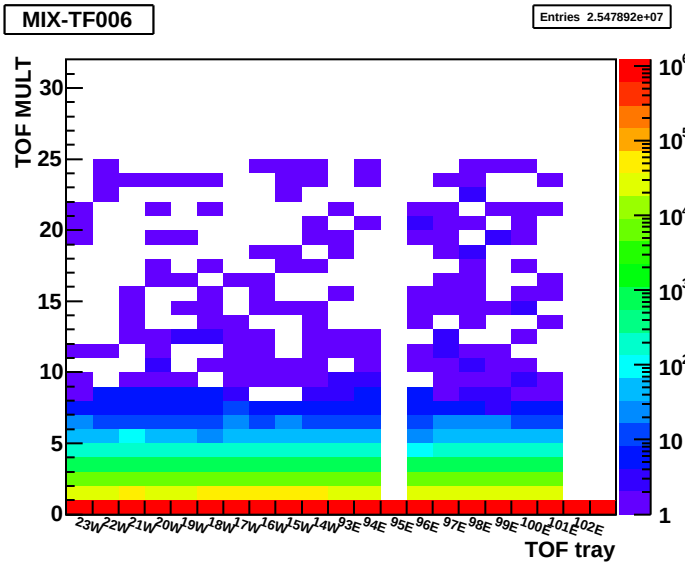

MIX-TF001
Entries 2.547892e+07
TOF MULT
TOF tray

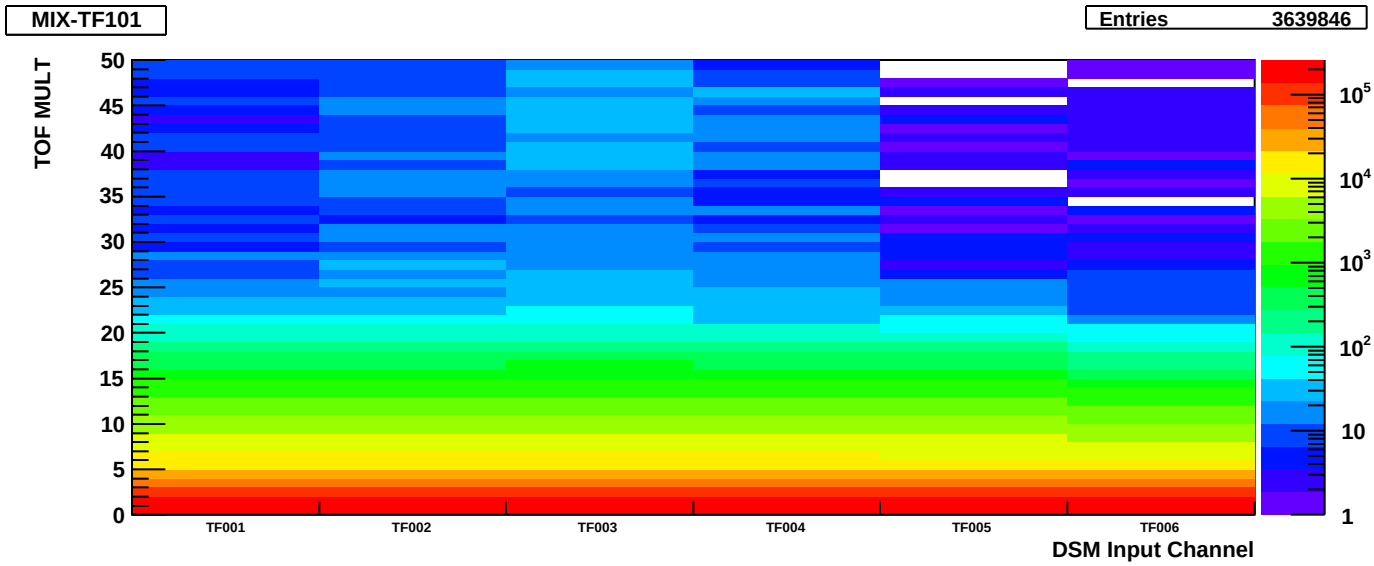

MIX-TF002
Entries 2.547892e+07
TOF MULT
TOF tray

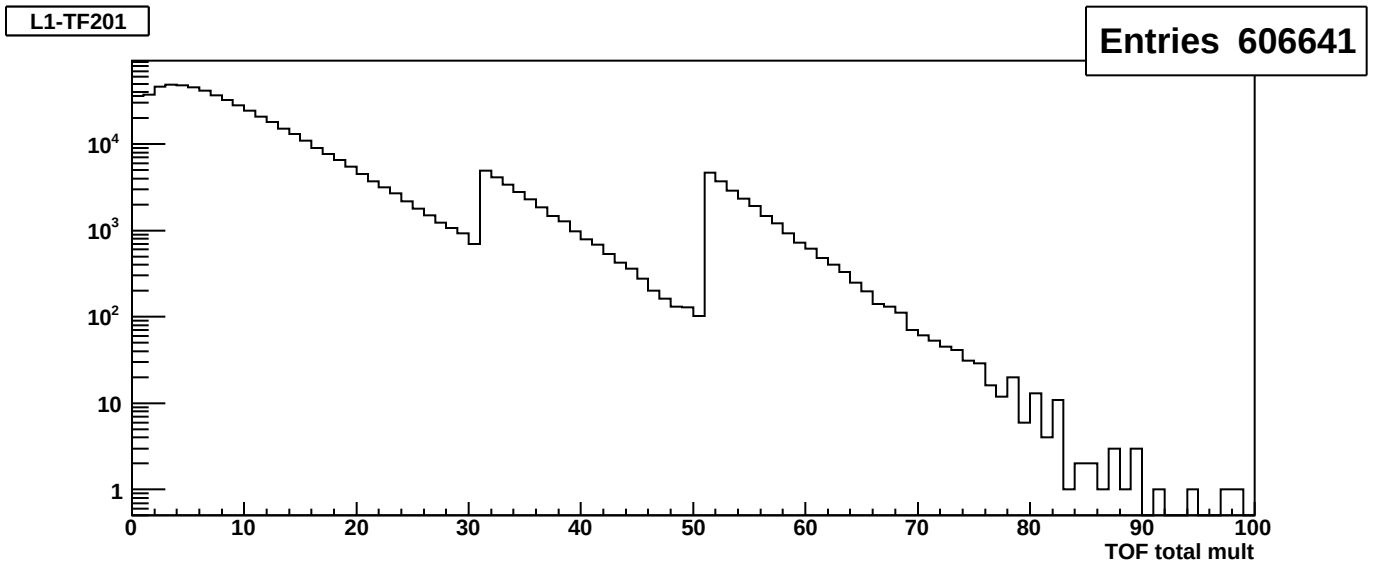

MIX-TF003
Entries 2.547892e+07
TOF MULT
TOF tray

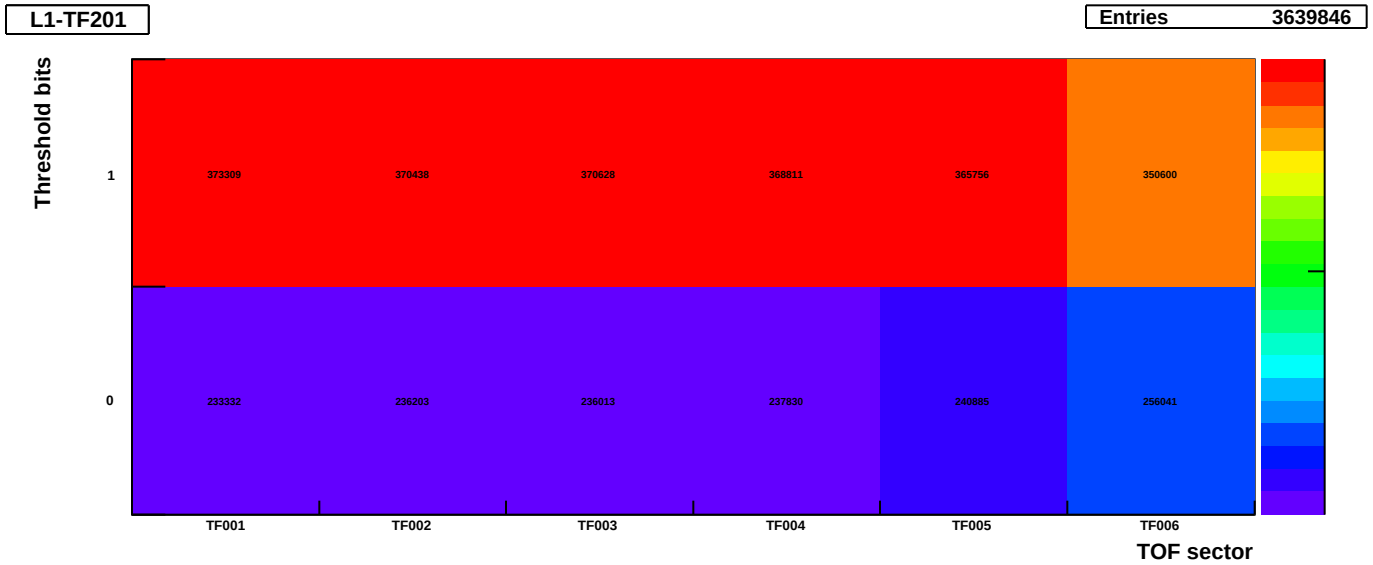

MIX-TF004
Entries 2.547892e+07
TOF MULT
TOF tray

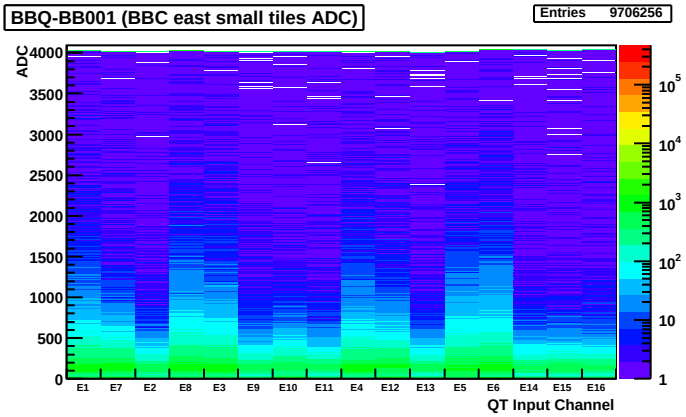

MIX-TF005
Entries 2.547892e+07
TOF MULT
TOF tray

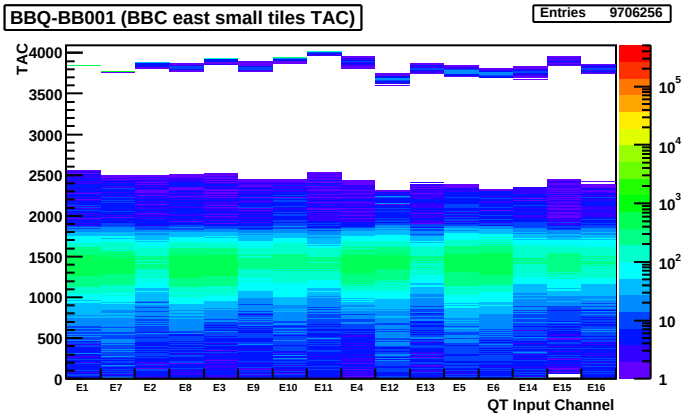

MIX-TF006
Entries 2.547892e+07
TOF MULT
TOF tray

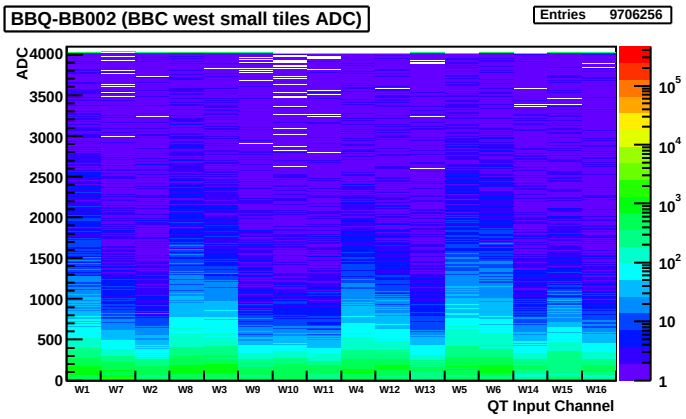

MIX-TF101
Entries 3639846
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

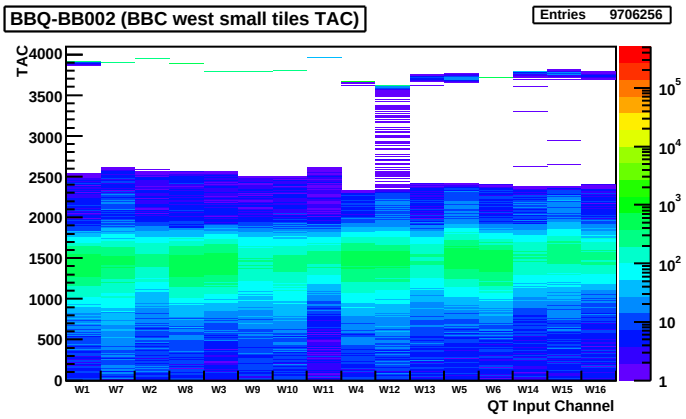

L1-TF201
Entries 606641
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

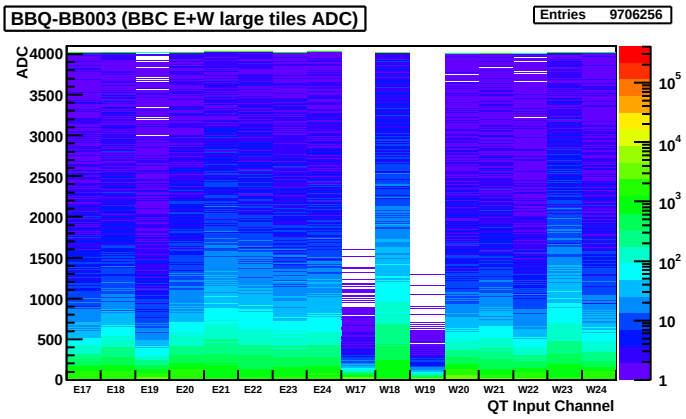

L1-TF201
Entries 3639846
Threshold bits
1
0
373309
370438
370628
368811
365756
350600
233332
236203
236013
237830
240885
256041
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

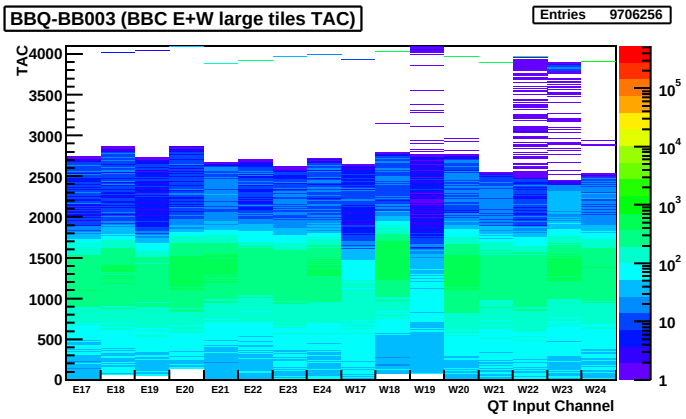

BBQ-BB001 (BBC east small tiles ADC)
Entries 9706256
ADC
QT Input Channel

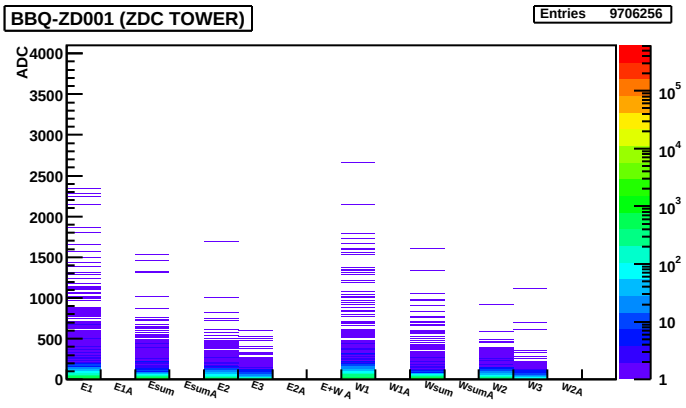

BBQ-BB001 (BBC east small tiles TAC)
Entries 9706256
TAC
QT Input Channel

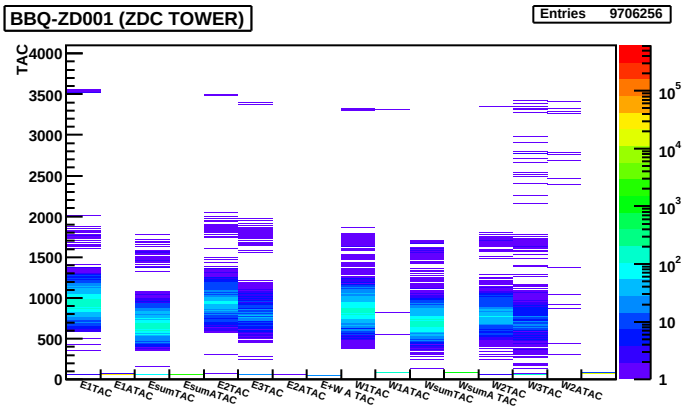

BBQ-BB002 (BBC west small tiles ADC)
Entries 9706256
ADC
QT Input Channel

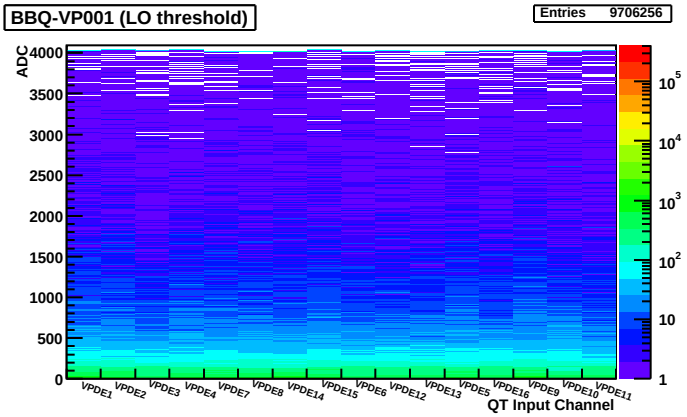

BBQ-BB002 (BBC west small tiles TAC)
Entries 9706256
TAC
QT Input Channel

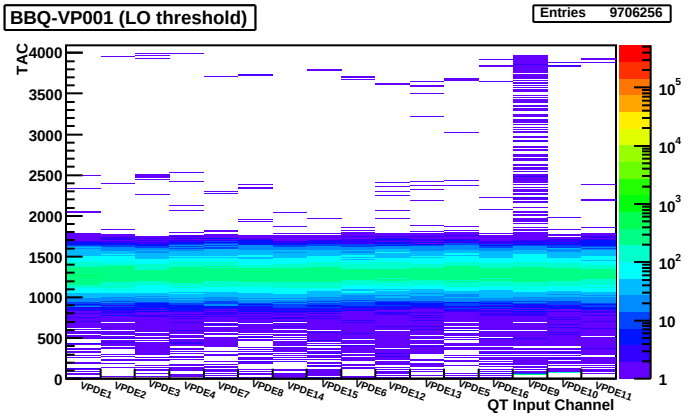

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9706256
ADC
QT Input Channel

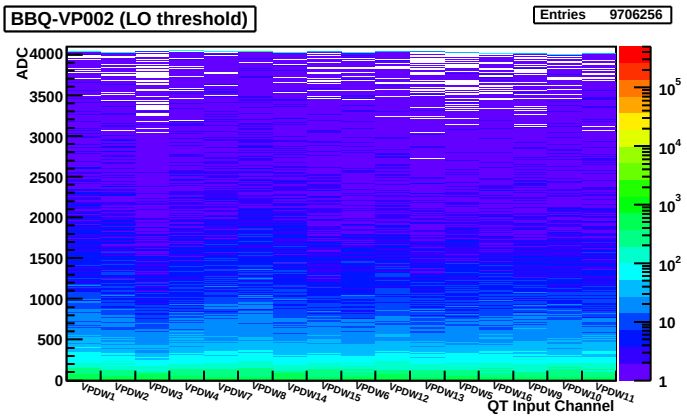

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9706256
TAC
QT Input Channel

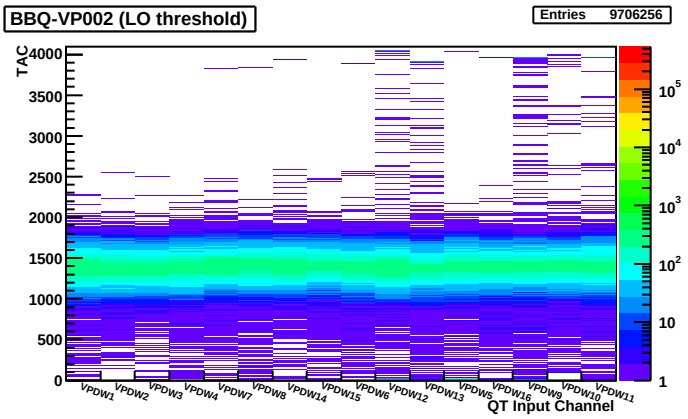

BBQ-ZD001 (ZDC TOWER)
Entries 9706256
ADC

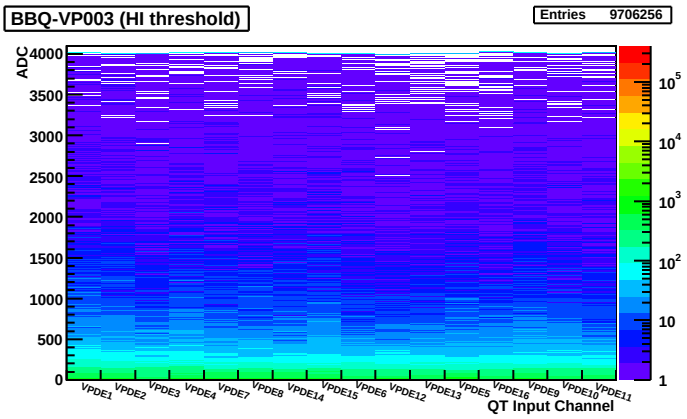

BBQ-ZD001 (ZDC TOWER)
Entries 9706256
TAC

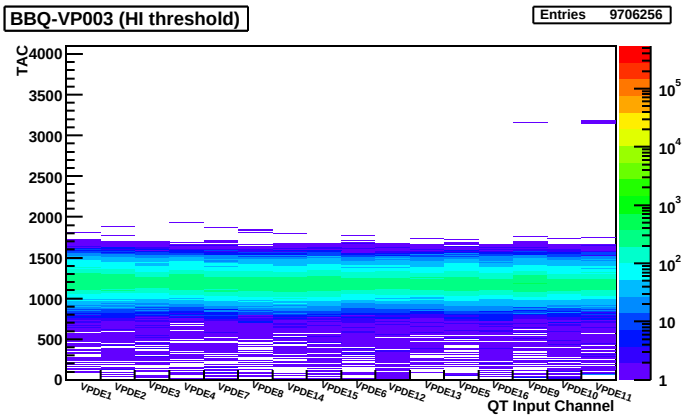

BBQ-VP001 (LO threshold)
Entries 9706256
ADC
QT Input Channel

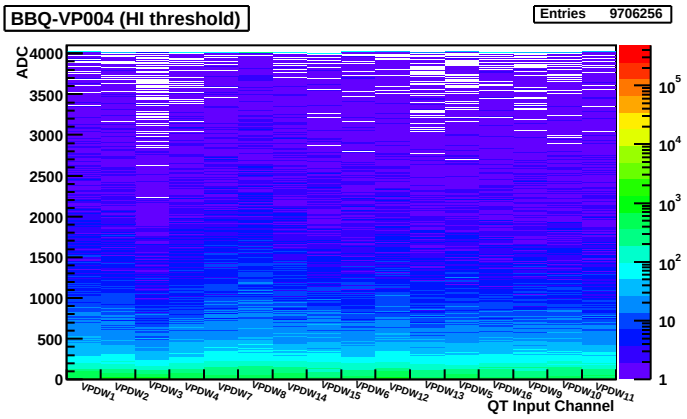

BBQ-VP001 (LO threshold)
Entries 9706256
TAC
QT Input Channel

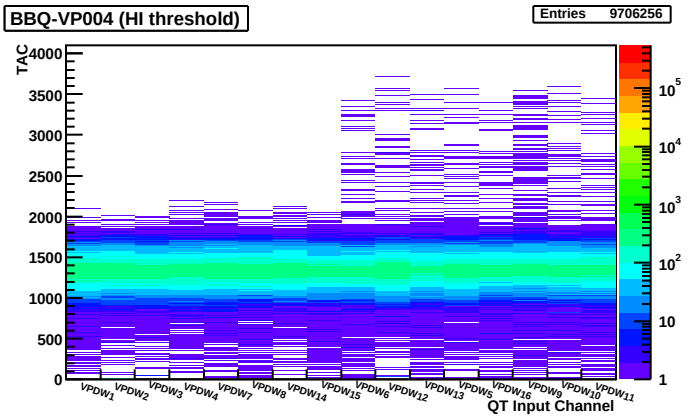

BBQ-VP002 (LO threshold)
Entries 9706256
ADC
QT Input Channel

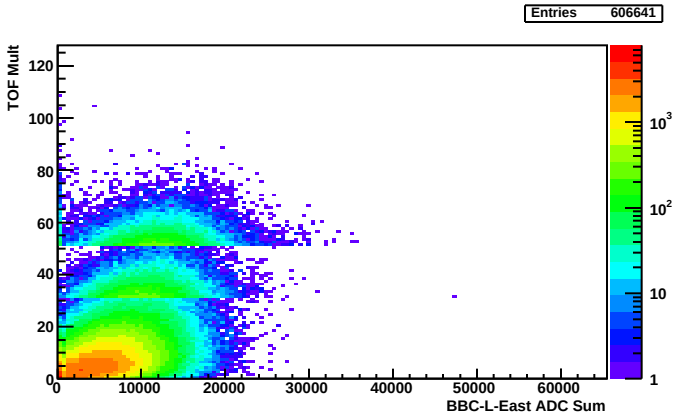

BBQ-VP002 (LO threshold)
Entries 9706256
TAC
QT Input Channel

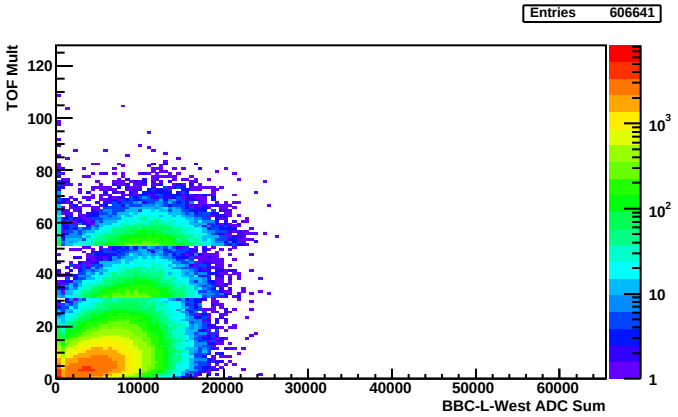

BBQ-VP003 (HI threshold)
Entries 9706256
ADC
QT Input Channel

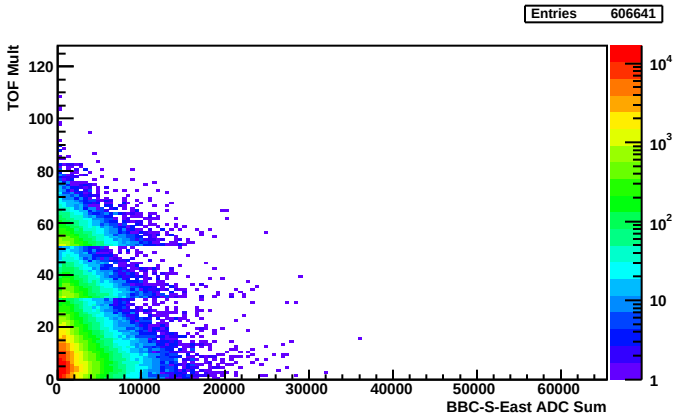

BBQ-VP003 (HI threshold)
Entries 9706256
TAC
QT Input Channel

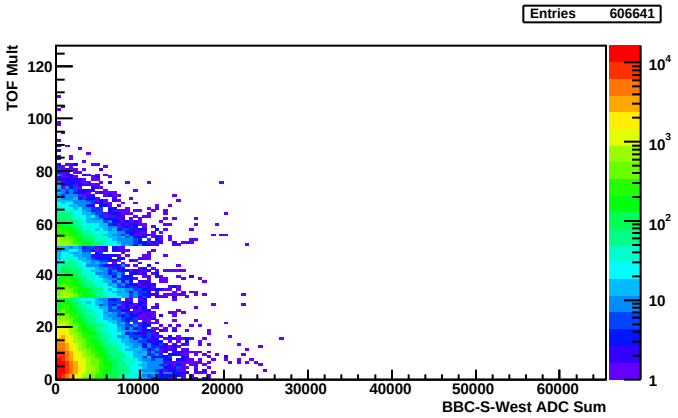

BBQ-VP004 (HI threshold)
Entries 9706256
ADC
QT Input Channel

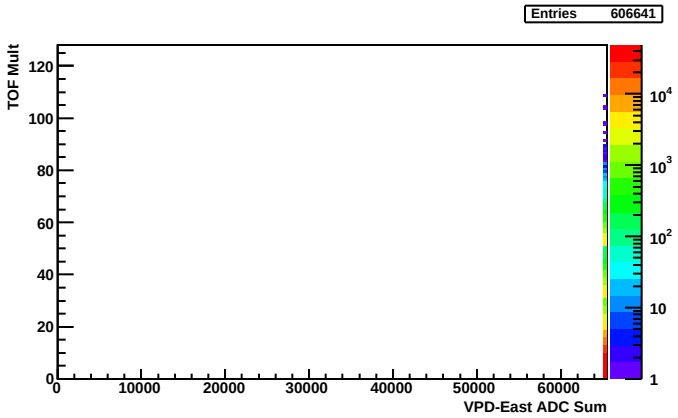

BBQ-VP004 (HI threshold)
Entries 9706256
TAC
QT Input Channel

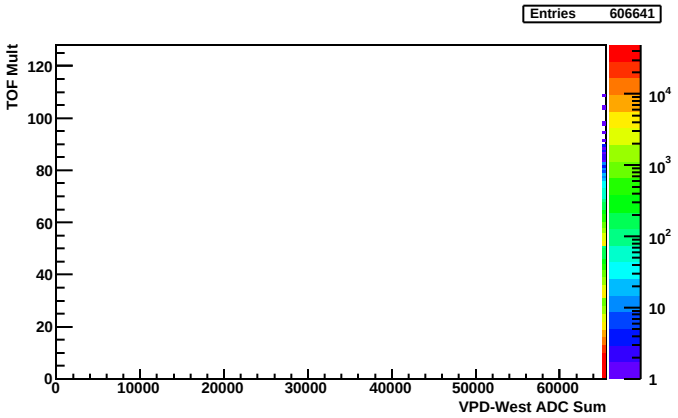

Entries 606641
TOF Mult
BBC-L-East ADC Sum

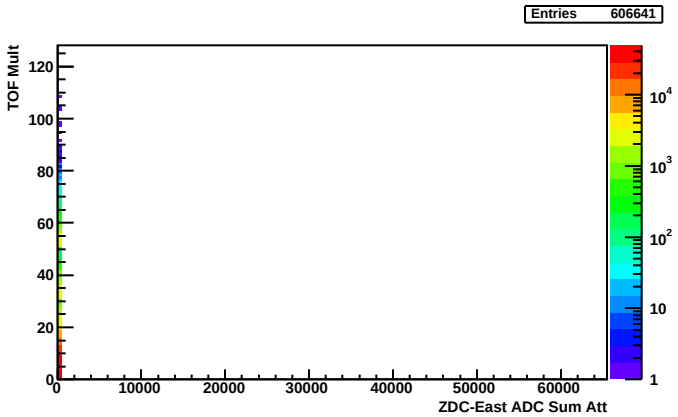

Entries 606641
TOF Mult
BBC-L-West ADC Sum

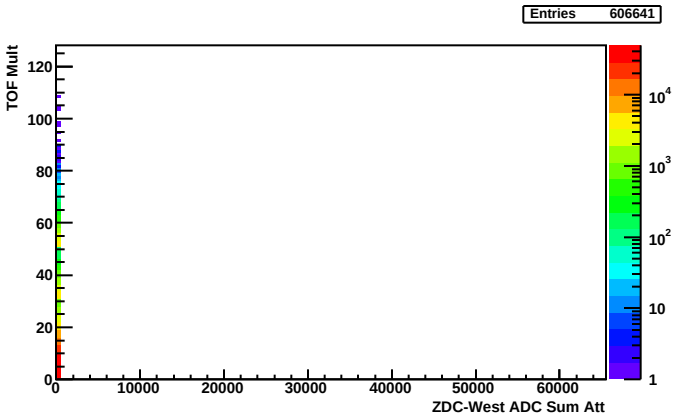

Entries 606641
TOF Mult
BBC-S-East ADC Sum

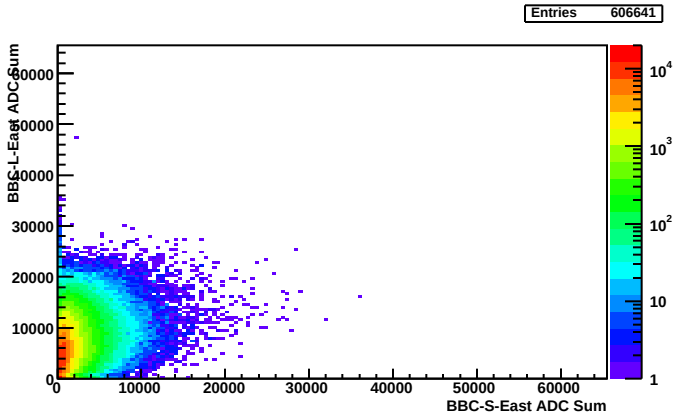

Entries 606641
TOF Mult
BBC-S-West ADC Sum

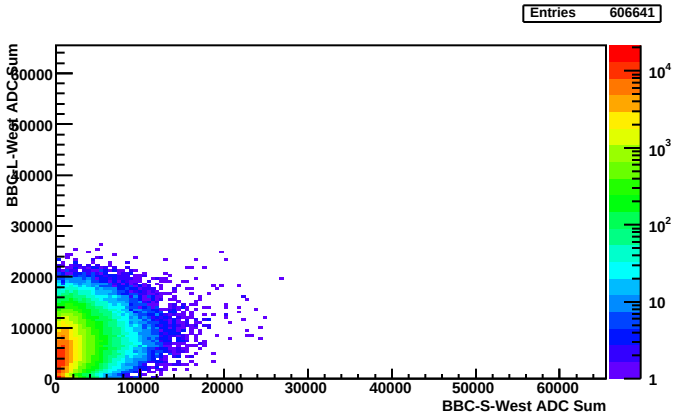

Entries 606641
TOF Mult
VPD-East ADC Sum

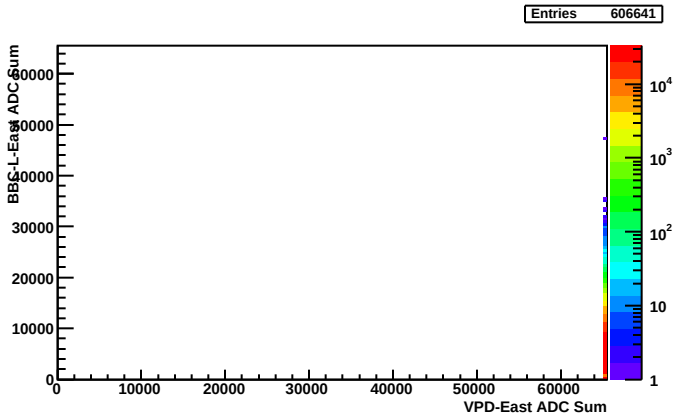

Entries 606641
TOF Mult
VPD-West ADC Sum

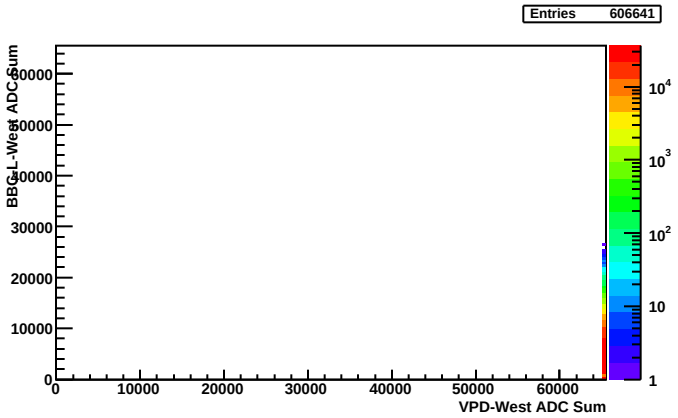

Entries 606641
TOF Mult
ZDC-East ADC Sum Att

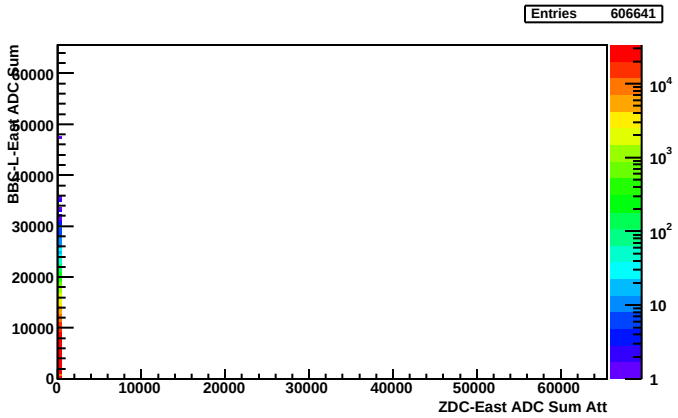

Entries 606641
TOF Mult
ZDC-West ADC Sum Att

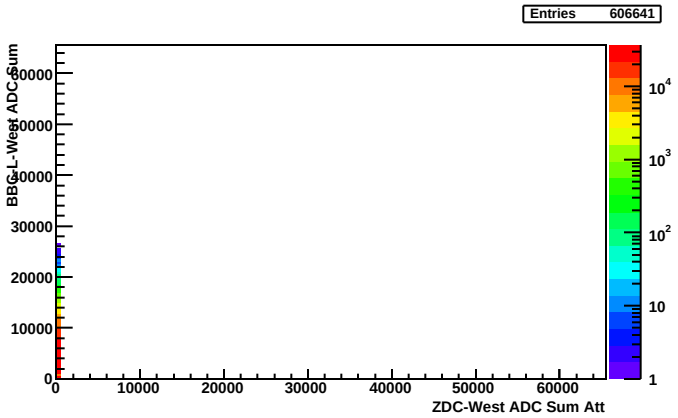

Entries 606641
BBC-L-East ADC Sum
BBC-S-East ADC Sum

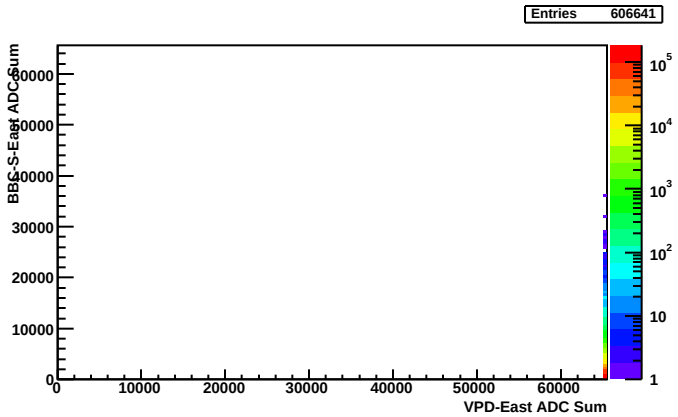

Entries 606641
BBC-L-West ADC Sum
BBC-S-West ADC Sum

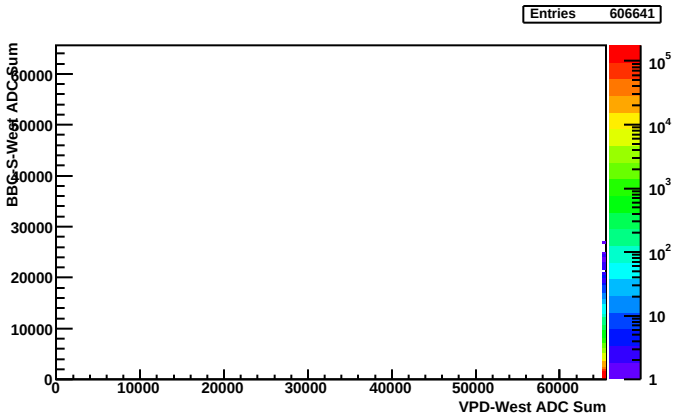

Entries 606641
BBC-L-East ADC Sum
VPD-East ADC Sum

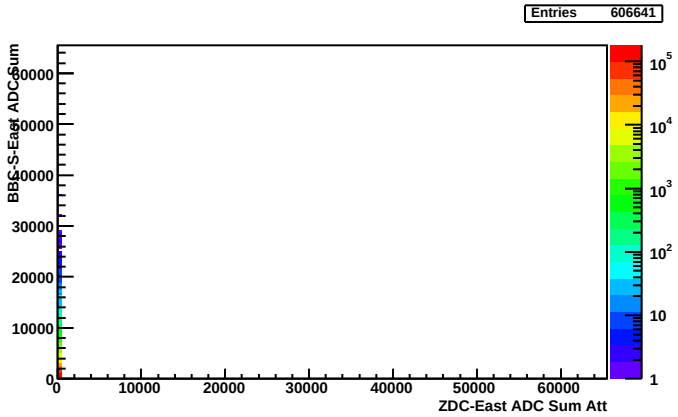

Entries 606641
BBC-L-West ADC Sum
VPD-West ADC Sum

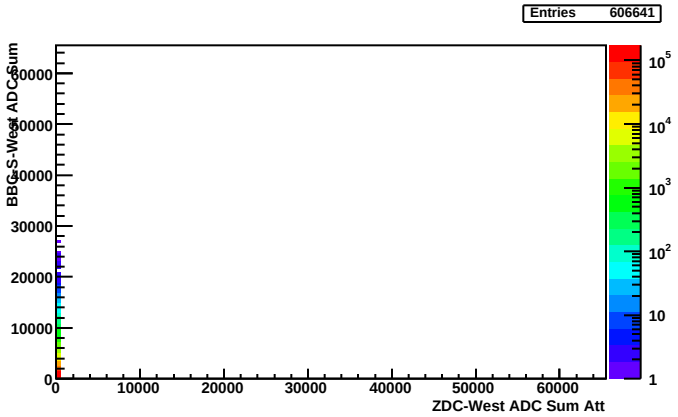

Entries 606641
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

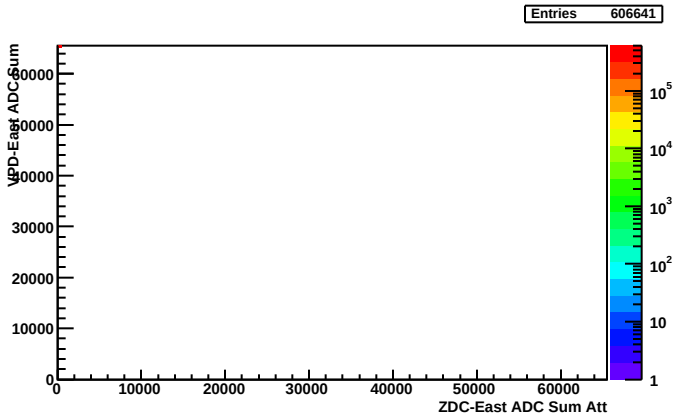

Entries 606641
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

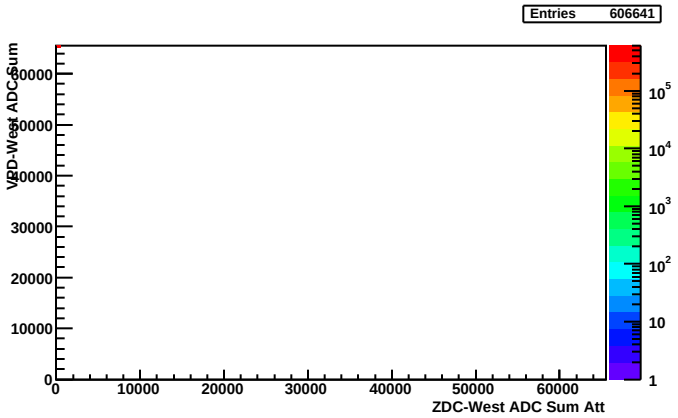

Entries 606641
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 606641
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 606641
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 606641
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 606641
VPD-East ADC Sum
ZDC-East ADC Sum Att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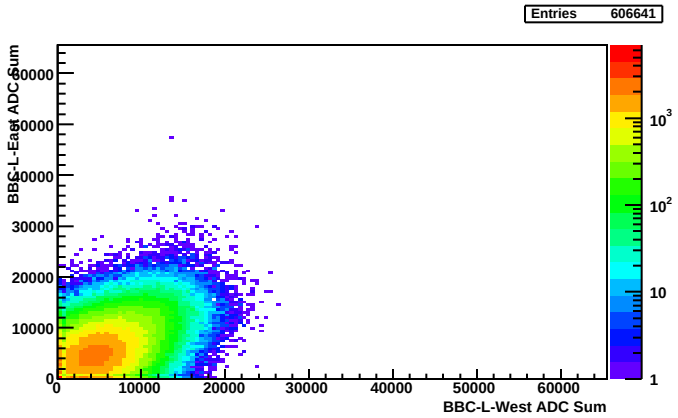
VPD-West ADC Sum
ZDC-West ADC Sum Att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BBC-L-East ADC Sum
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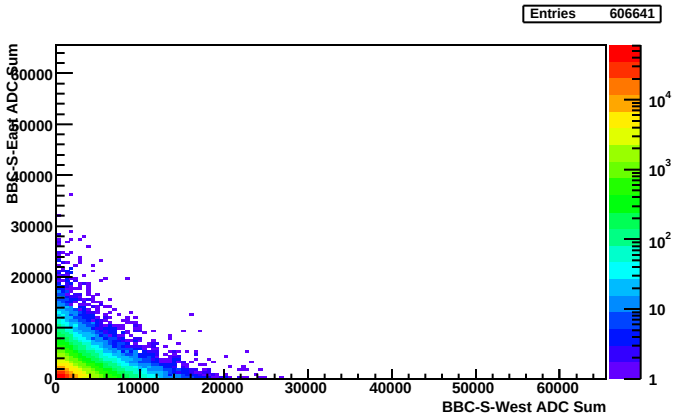
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BBC-S-East ADC Sum
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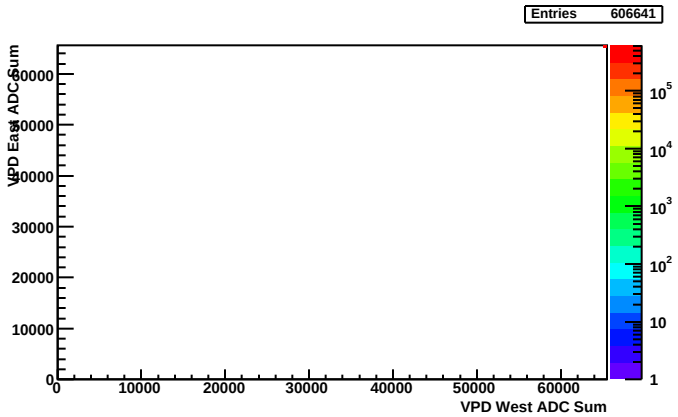
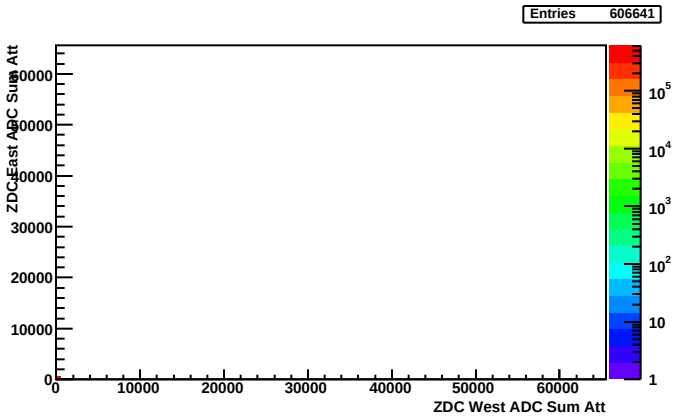
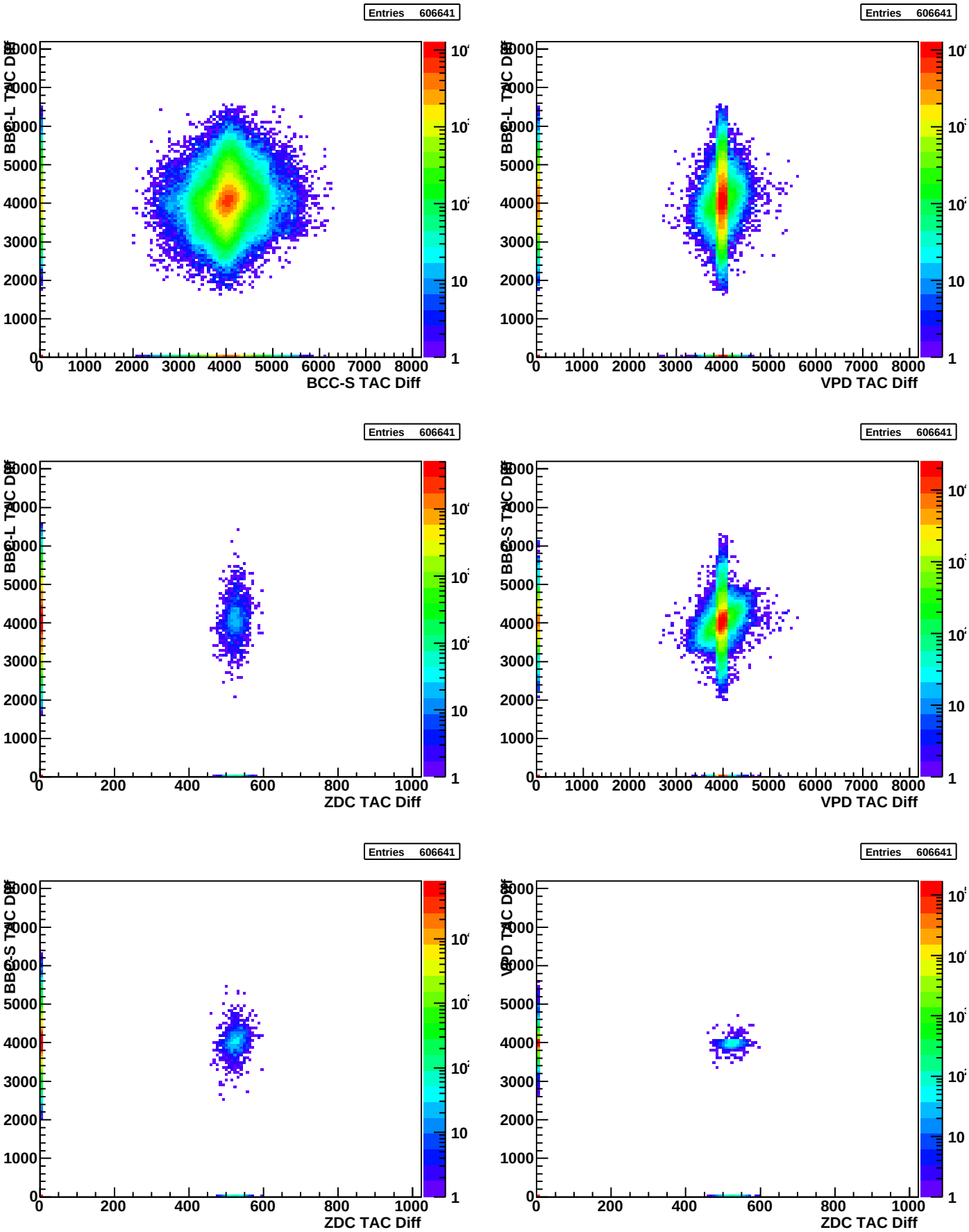

Entries 606641
VPD East ADC Sum
VPD West ADC Sum


Entries 606641
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 606641
BBC-L TAC Diff
BCC-S TAC Diff
Entries 606641
BBC-L TAC Diff
VPD TAC Diff
Entries 606641
BBC-L TAC Diff
ZDC TAC Diff
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VPD TAC Diff
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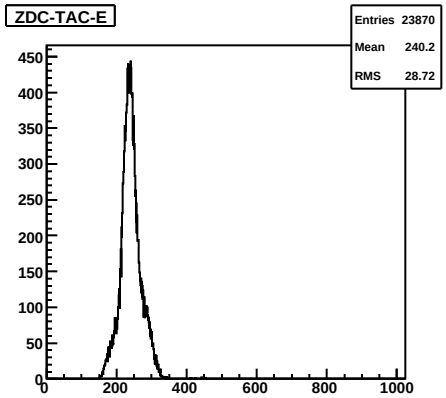
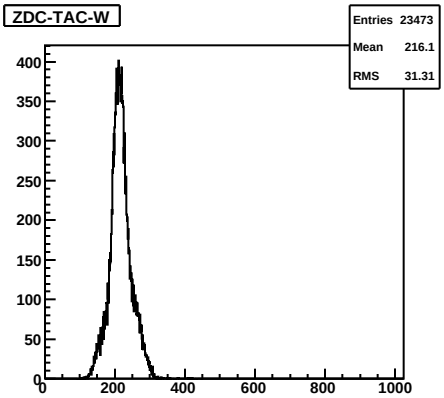
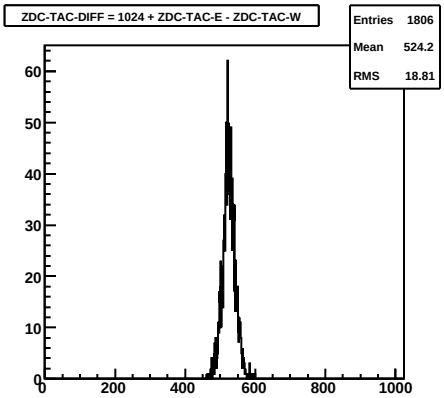
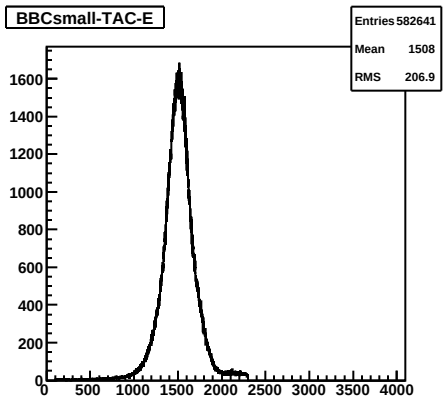
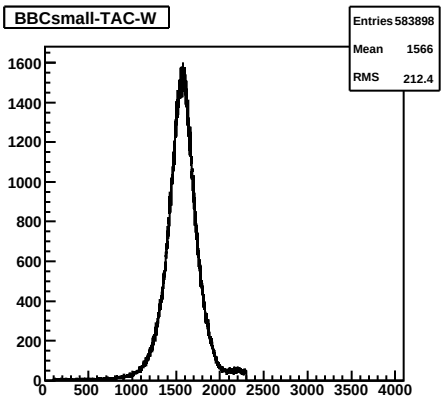
ZDC TAC Diff
Entries 606641
VPD TAC Diff
ZDC TAC Diff

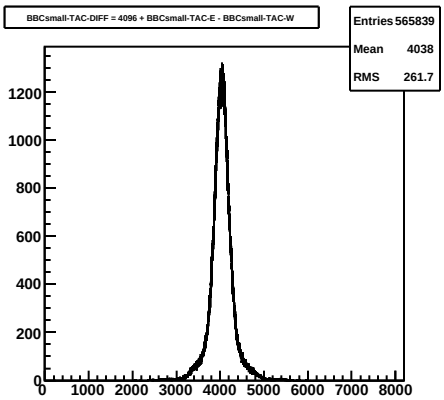

ZDC-TAC-E
Entries 23870
Mean 240.2
RMS 28.72

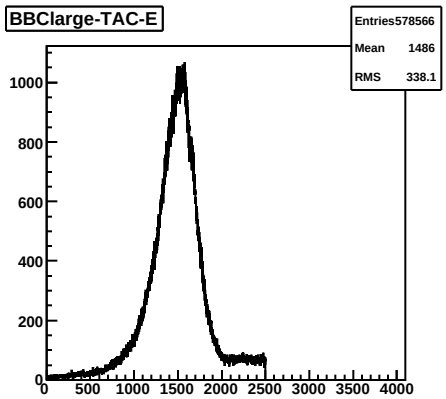

ZDC-TAC-W
Entries 23473
Mean 216.1
RMS 31.31

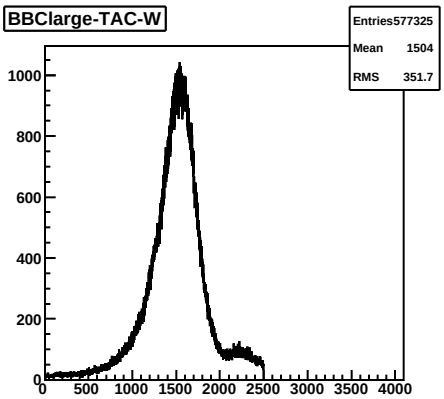

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1806
Mean 524.2
RMS 18.81

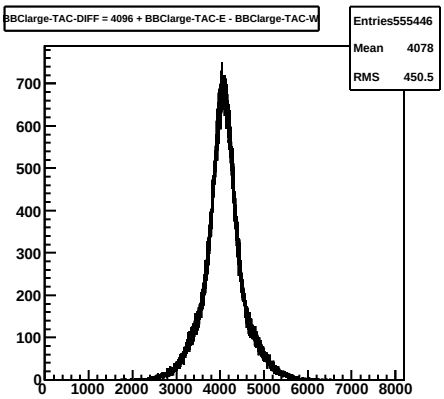

BBCsmall-TAC-E
Entries 582641
Mean 1508
RMS 206.9

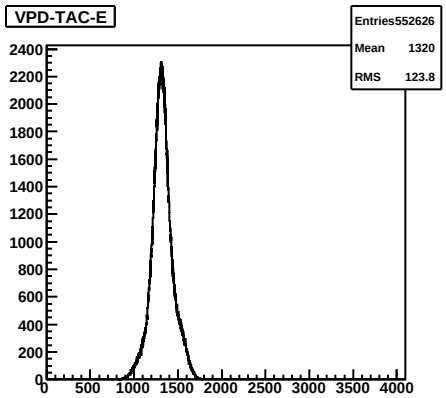

BBCsmall-TAC-W
Entries 583898
Mean 1566
RMS 212.4

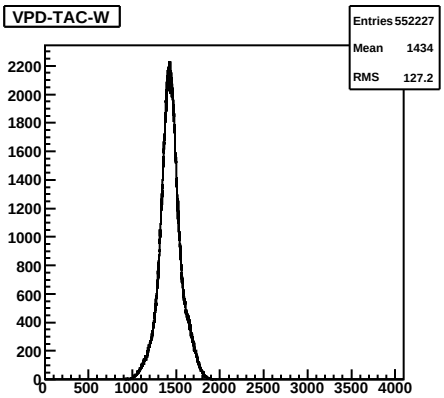

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 565839
Mean 4038
RMS 261.7

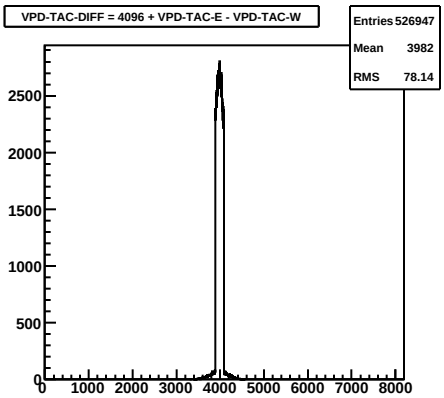

BBClarge-TAC-E
Entries 578566
Mean 1486
RMS 338.1

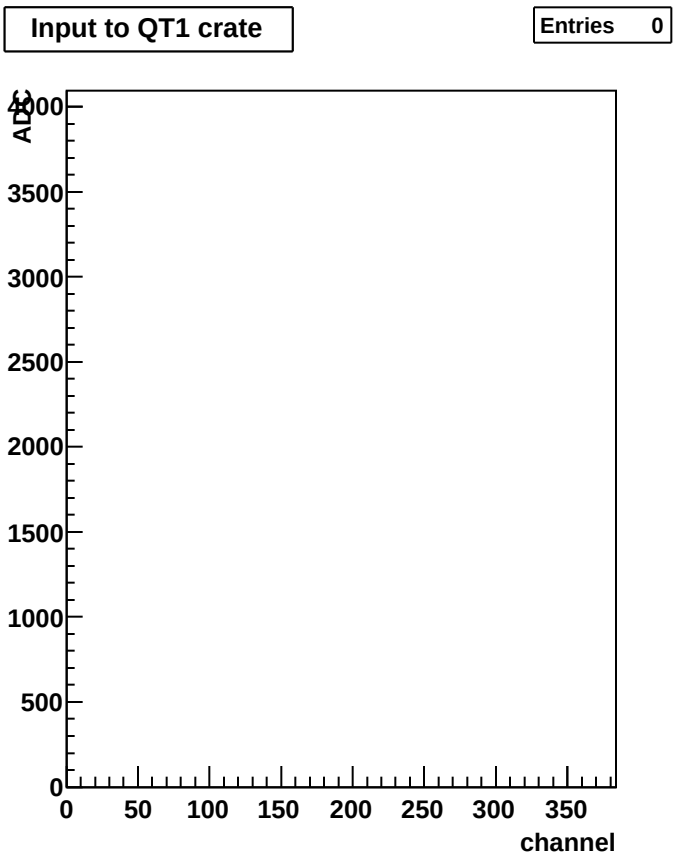

BBClarge-TAC-W
Entries 577325
Mean 1504
RMS 351.7

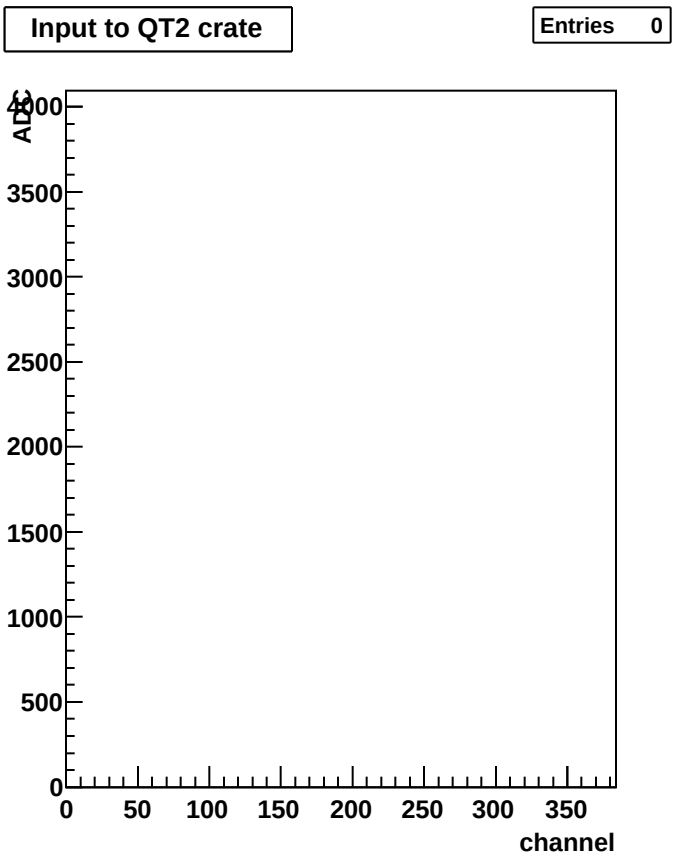

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 555446
Mean 4078
RMS 450.5

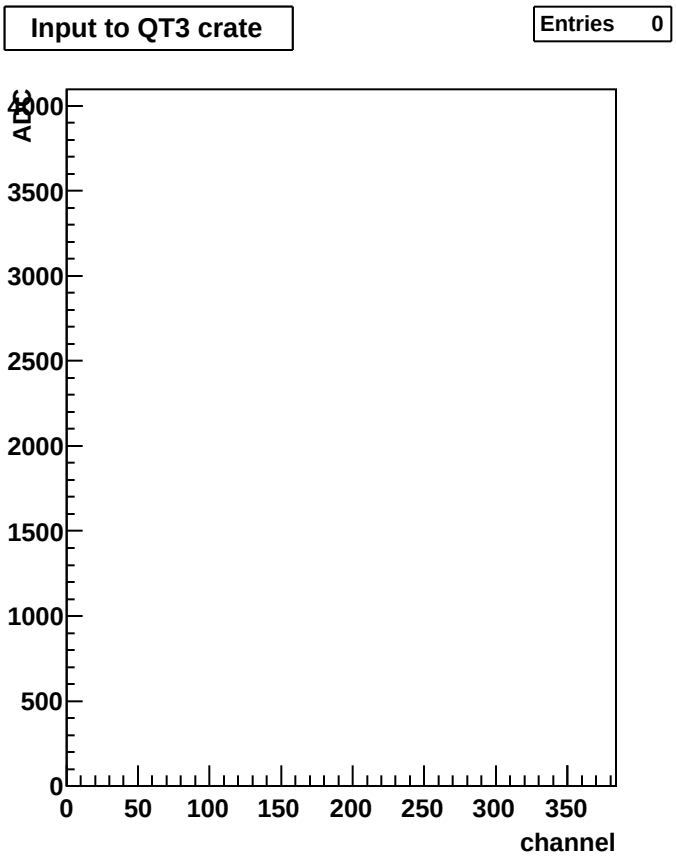

VPD-TAC-E
Entries 552626
Mean 1320
RMS 123.8

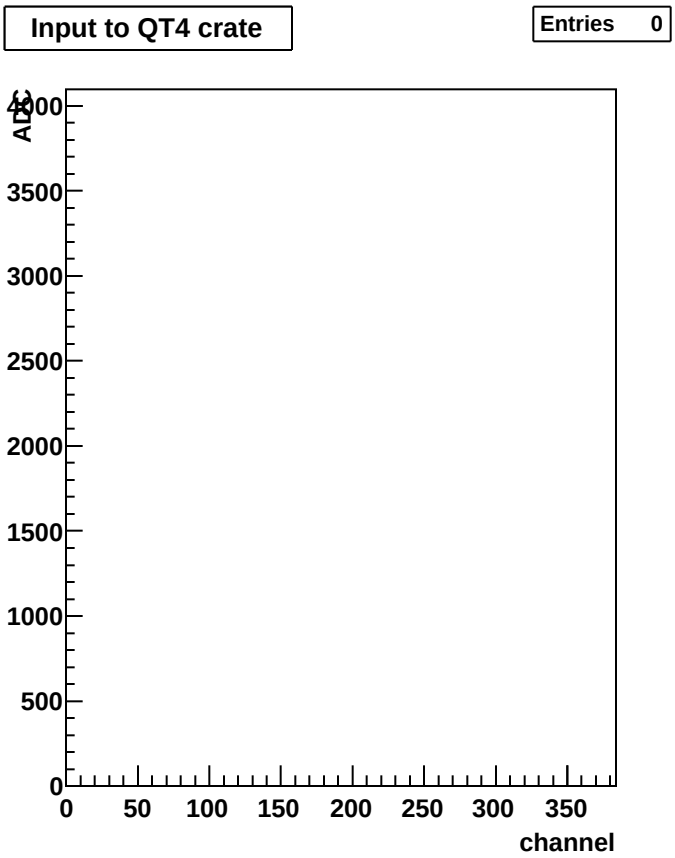

VPD-TAC-W
Entries 552227
Mean 1434
RMS 127.2

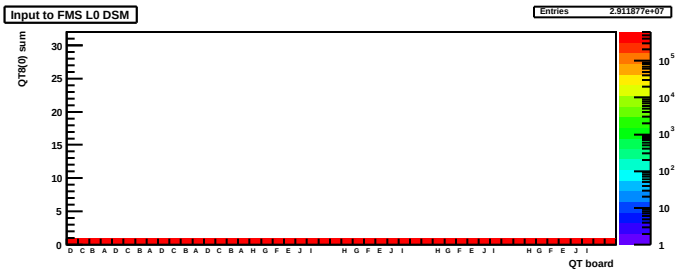

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 526947
Mean 3982
RMS 78.14

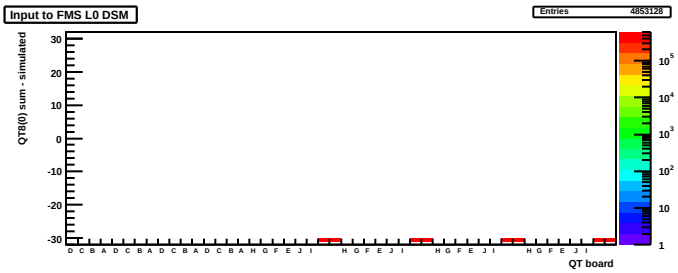

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

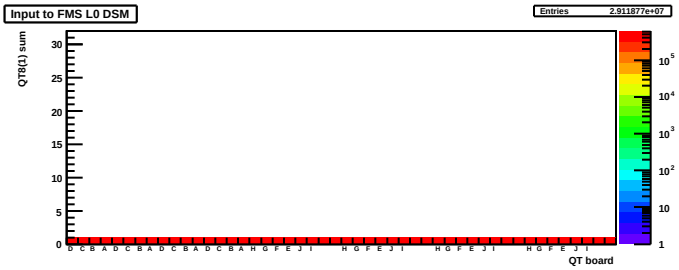

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

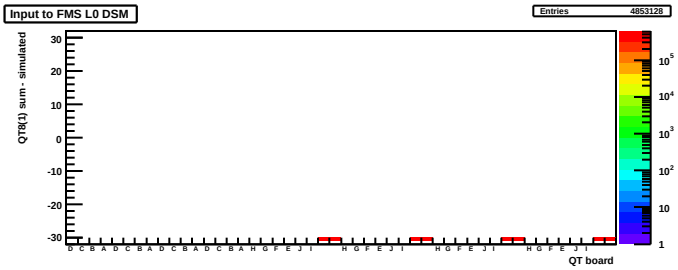

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

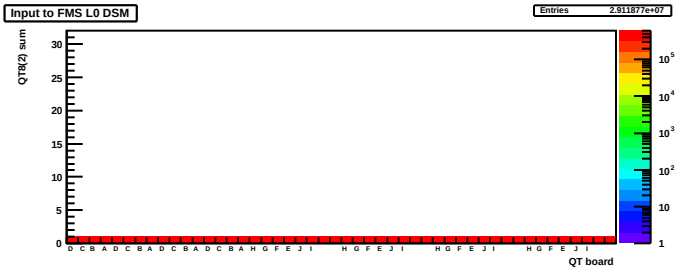

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

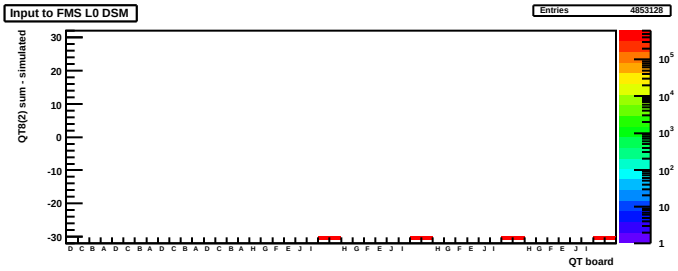

Input to FMS L0 DSM
Entries 2.911877e+07
QT8(0) sum
QT board

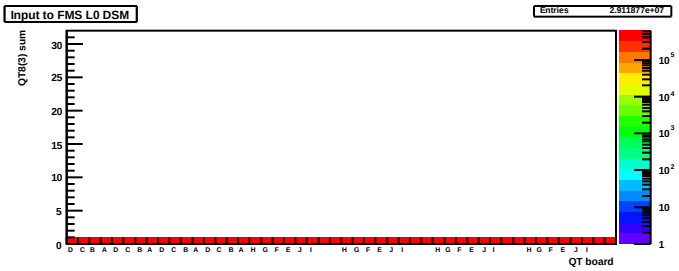

Input to FMS L0 DSM
Entries 4853128
QT8(0) sum - simulated
QT board

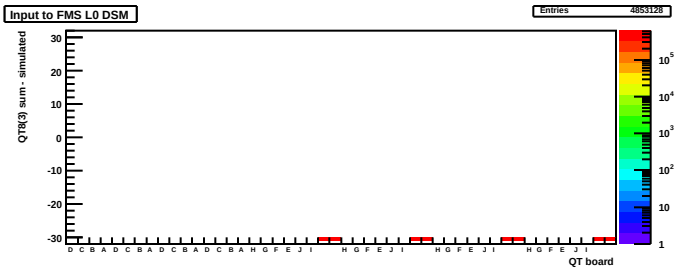

Input to FMS L0 DSM
Entries 2.911877e+07
QT8(1) sum
QT board

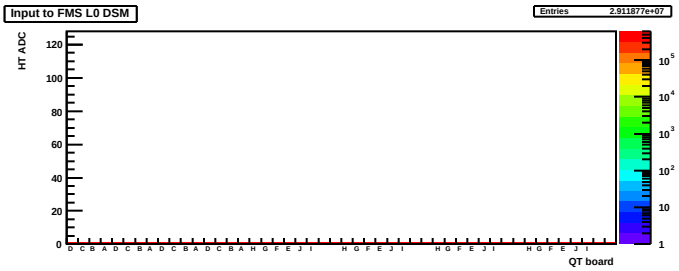

Input to FMS L0 DSM
Entries 4853128
QT8(1) sum - simulated
QT board

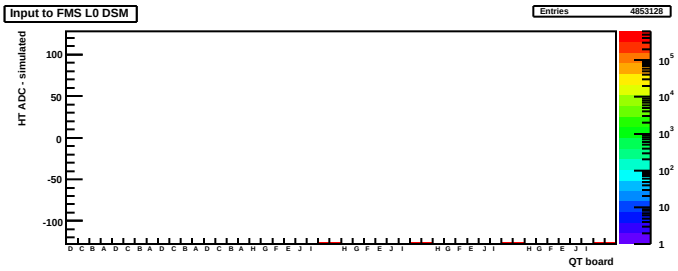

Input to FMS L0 DSM
Entries 2.911877e+07
QT8(2) sum
QT board

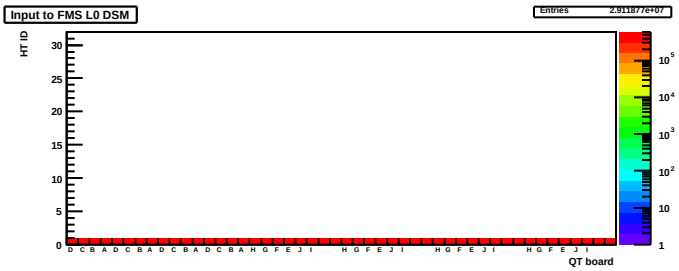

Input to FMS L0 DSM
Entries 4853128
QT8(2) sum - simulated
QT board

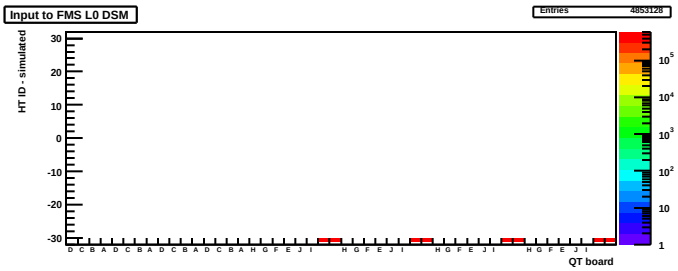

Input to FMS L0 DSM
Entries 2.911877e+07
QT8(3) sum
QT board

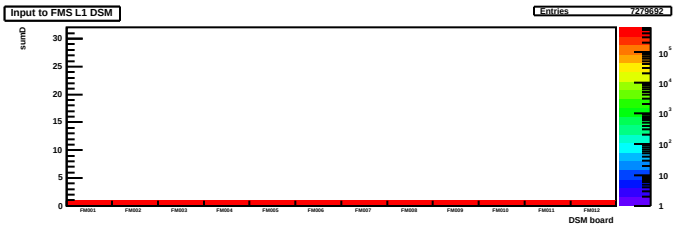

Input to FMS L0 DSM
Entries 4853128
QT8(3) sum - simulated
QT board

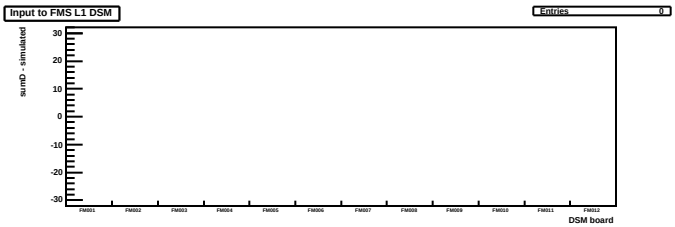

Input to FMS L0 DSM
Entries 2.911877e+07
HT ADC
QT board

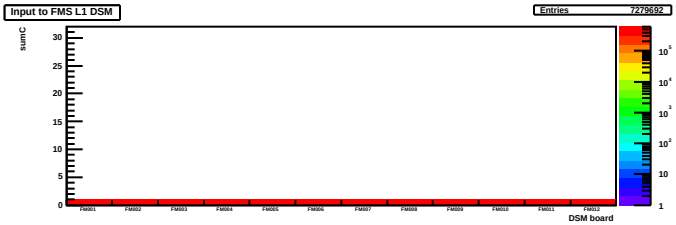

Input to FMS L0 DSM
Entries 4853128
HT ADC - simulated
QT board

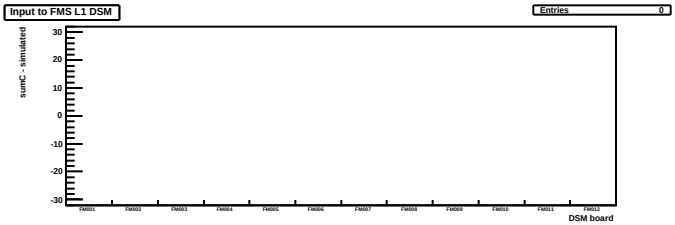

Input to FMS L0 DSM
Entries 2.911877e+07
HT ID
QT board

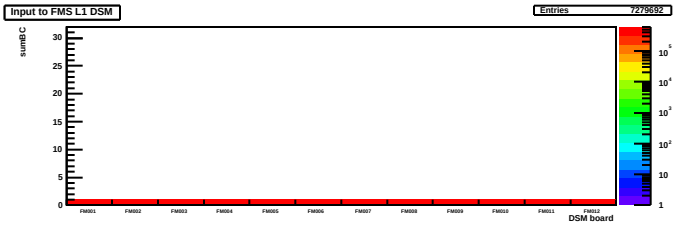

Input to FMS L0 DSM
Entries 4853128
HT ID - simulated
QT board

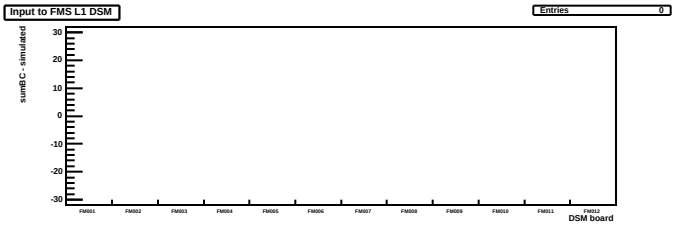

Input to FMS L1 DSM
Entries 7279692
sumD
DSM board

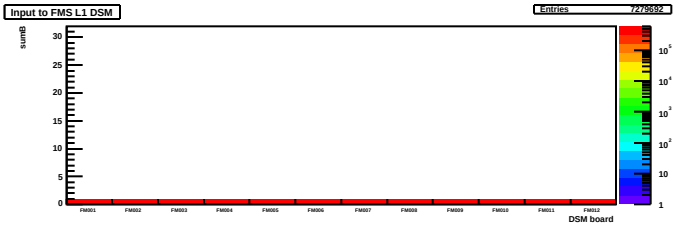

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

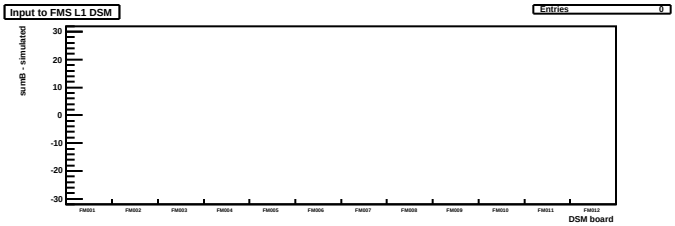

Input to FMS L1 DSM
Entries 7279692
sumC
DSM board

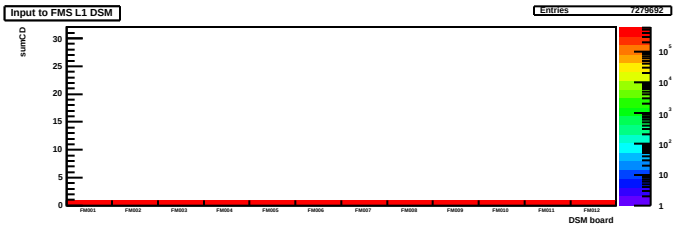

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

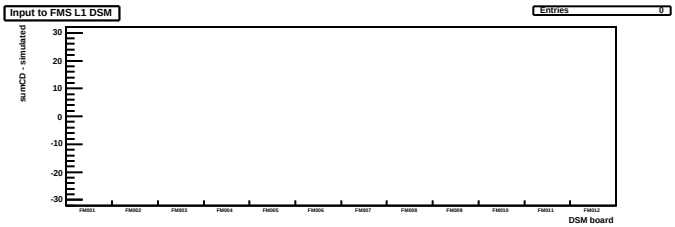

Input to FMS L1 DSM
Entries 7279692
sumBC
DSM board

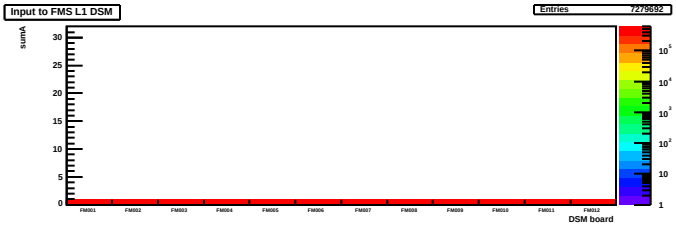

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

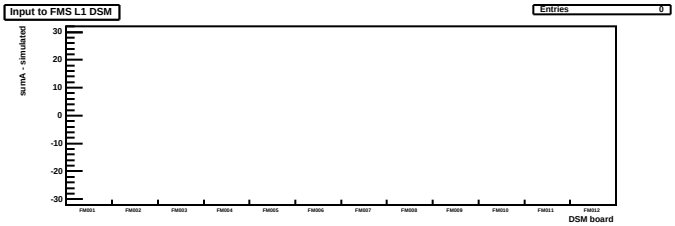

Input to FMS L1 DSM
Entries 7279692
sumB
DSM board

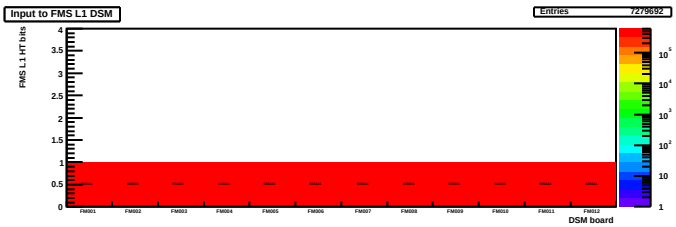

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

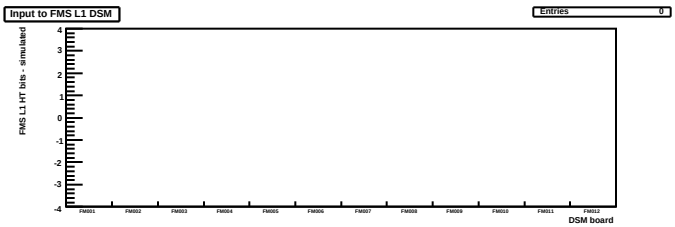

Input to FMS L1 DSM
Entries 7279692
sumCD
DSM board

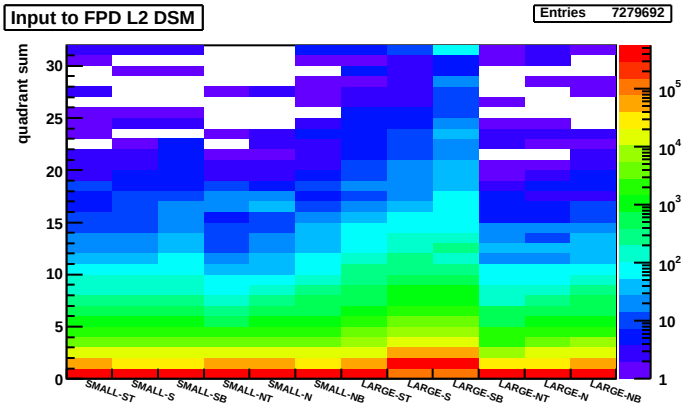

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

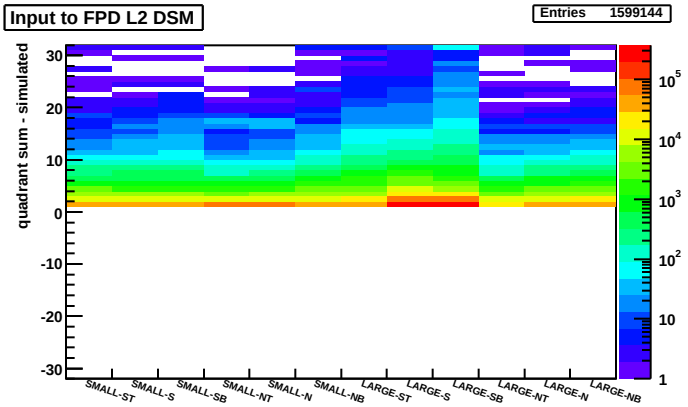

Input to FMS L1 DSM
Entries 7279692
sumA
DSM board

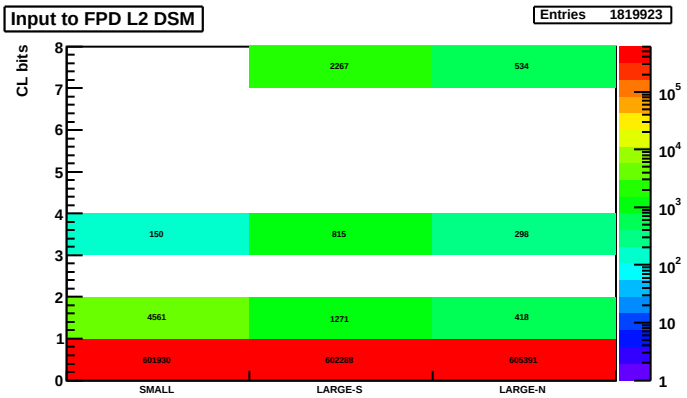

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

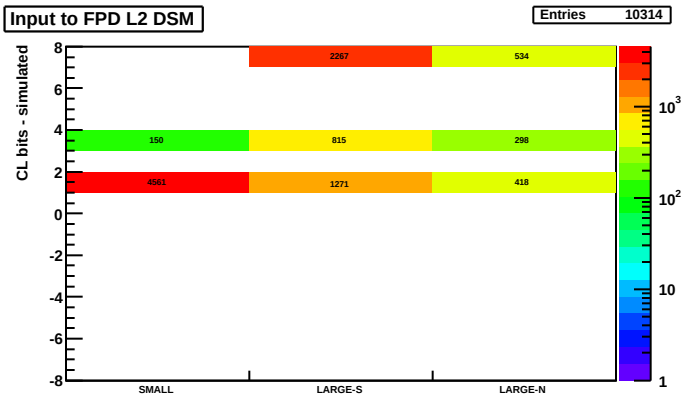

Input to FMS L1 DSM
Entries 7279692
FMS L1 HT bits
DSM board

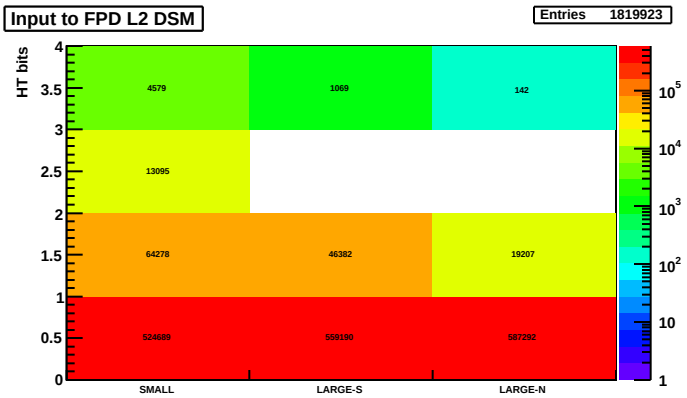

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

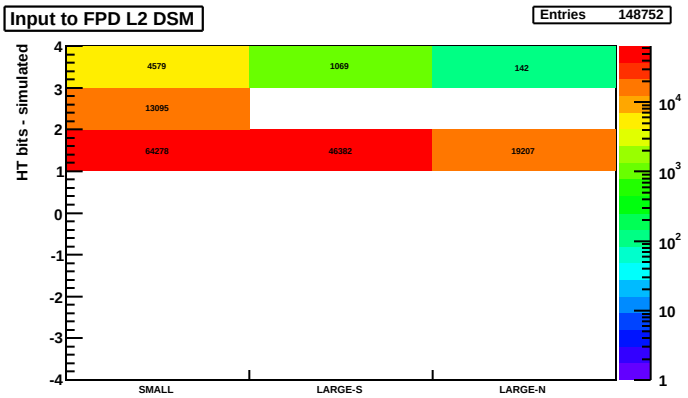

Input to FPD L2 DSM
Entries 7279692
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

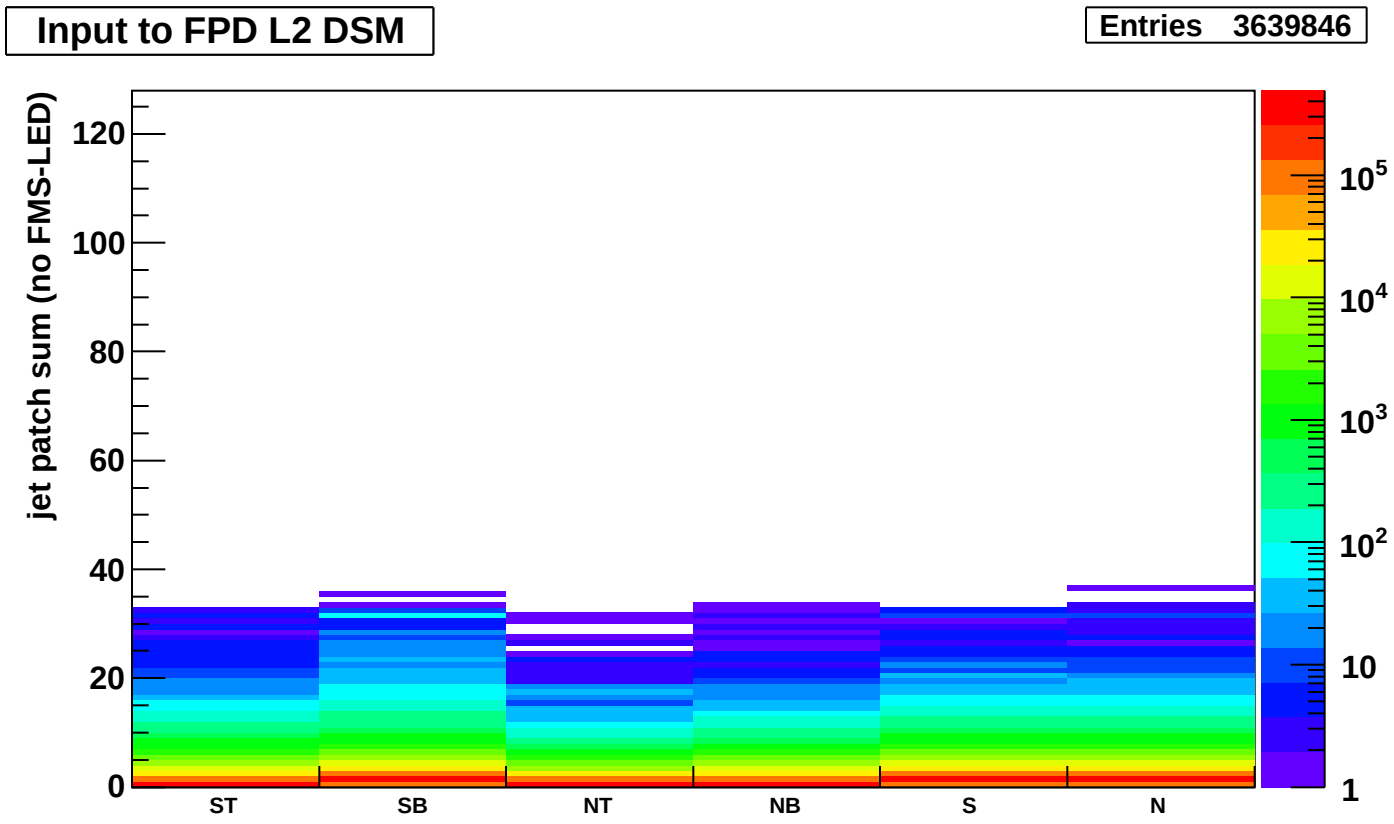

Input to FPD L2 DSM
Entries 1599144
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

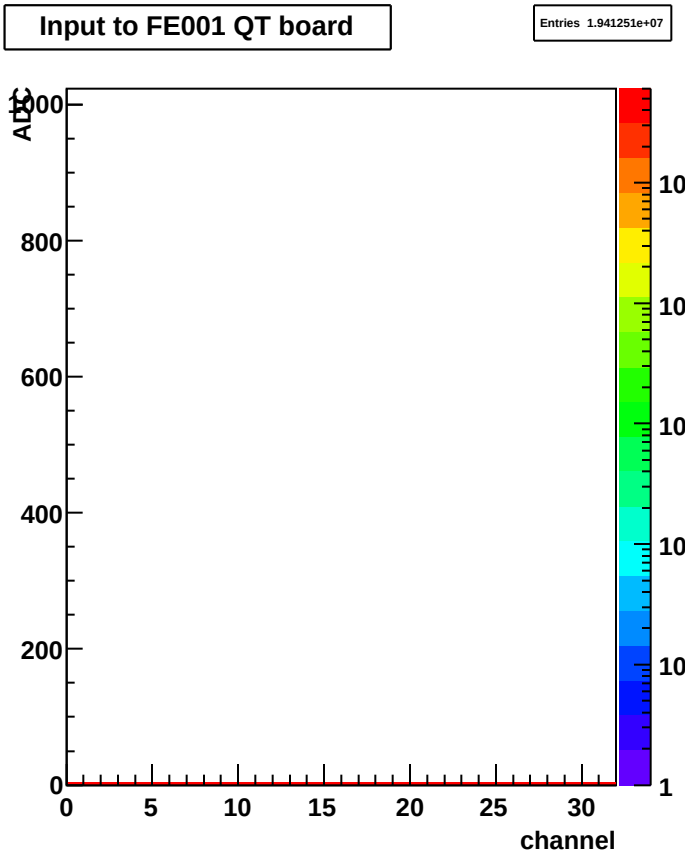

Input to FPD L2 DSM
Entries 1819923
CL bits
2267
534
150
815
298
4561
1271
418
601930
602288
605391
SMALL
LARGE-S
LARGE-N

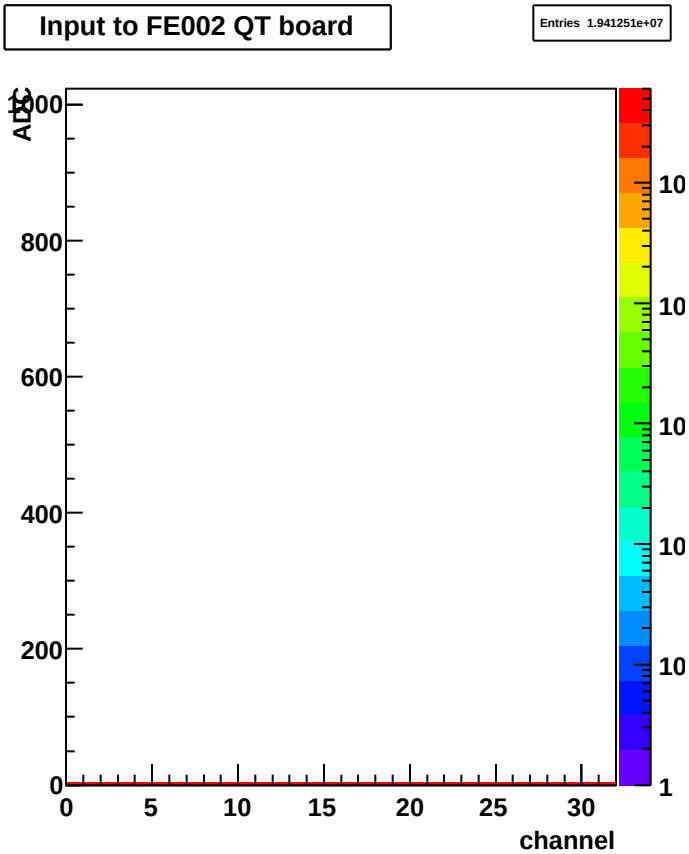

Input to FPD L2 DSM
Entries 10314
CL bits - simulated
2267
534
150
815
298
4561
1271
418
SMALL
LARGE-S
LARGE-N

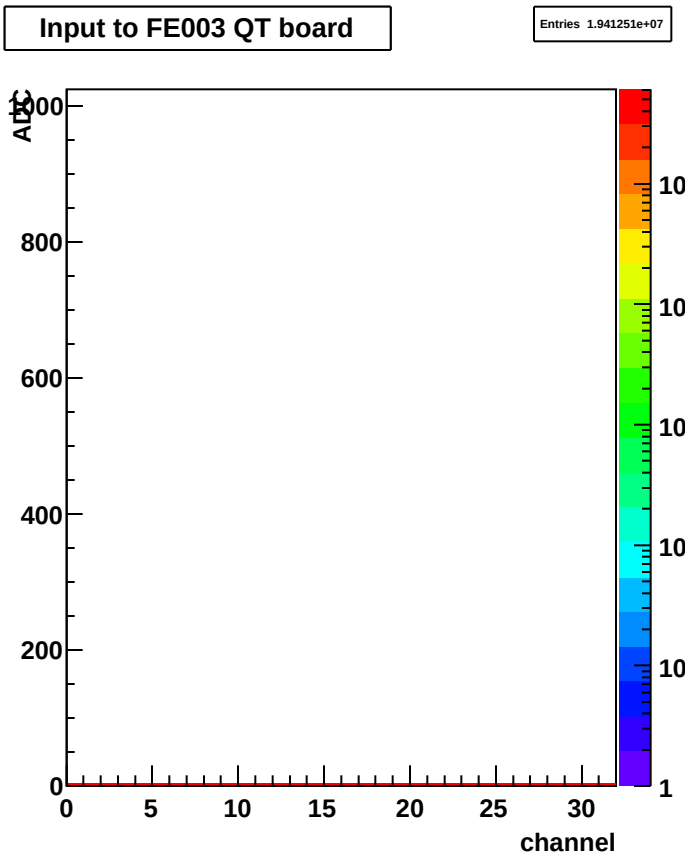

Input to FPD L2 DSM
Entries 1819923
HT bits
4579
1069
142
13095
64278
46382
19207
524689
559190
587292
SMALL
LARGE-S
LARGE-N

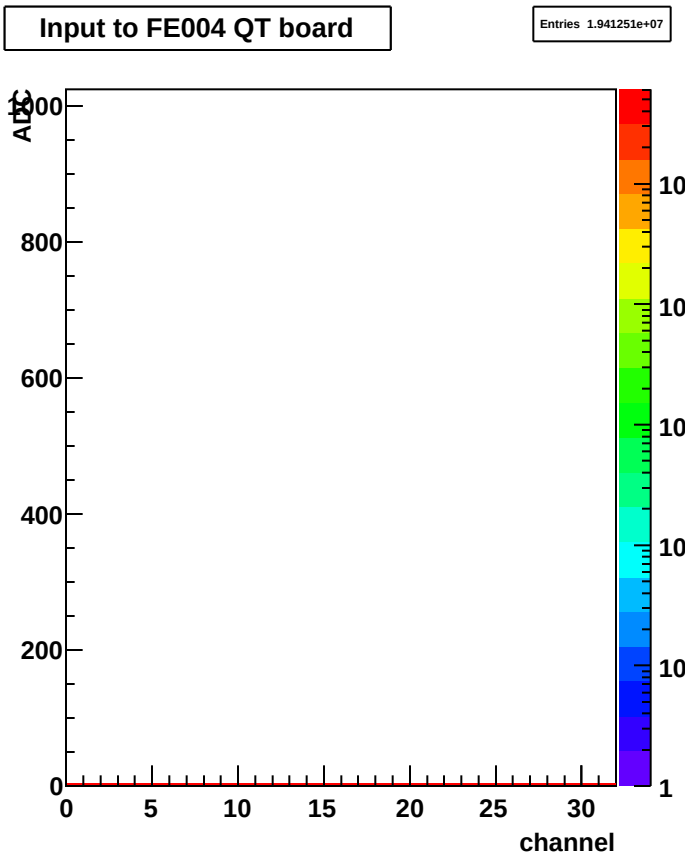

Input to FPD L2 DSM
Entries 148752
HT bits - simulated
4579
1069
142
13095
64278
46382
19207
SMALL
LARGE-S
LARGE-N

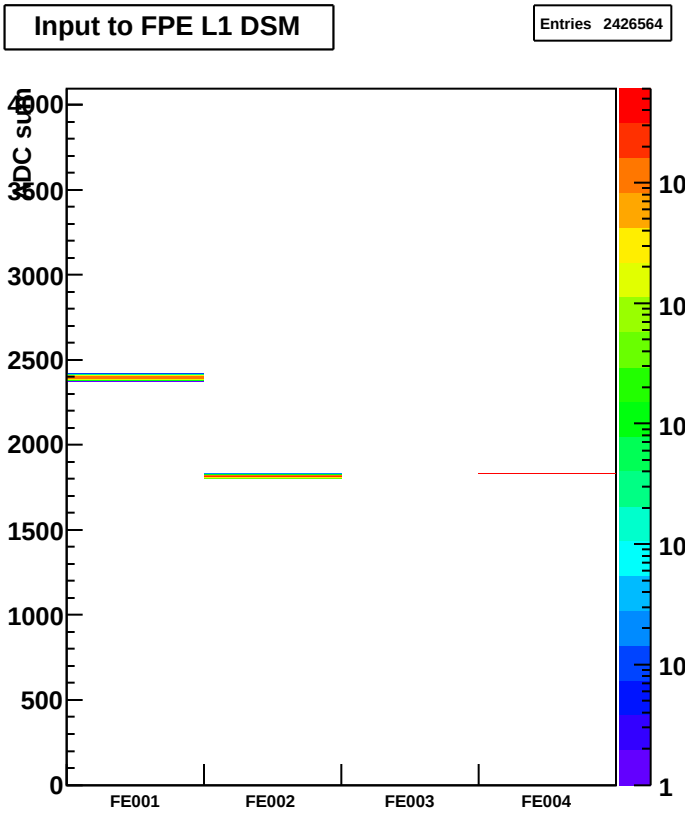

Input to FPD L2 DSM
Entries 3639846
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

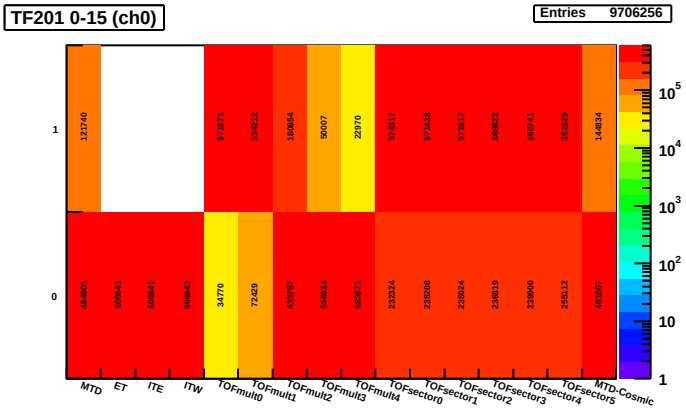

Input to FE001 QT board
Entries 1.941251e+07
ADC
channel

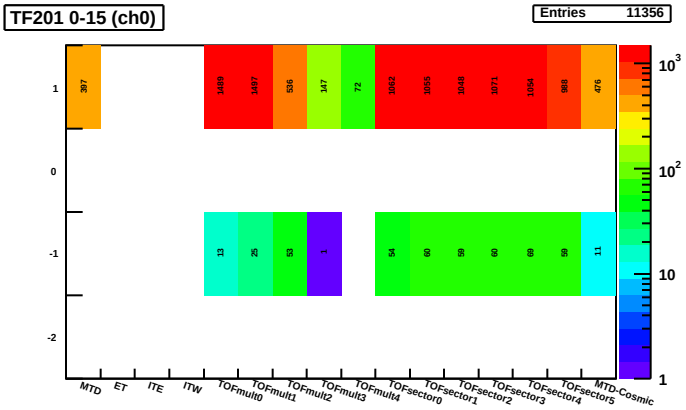

Input to FE002 QT board
Entries 1.941251e+07
ADC
channel

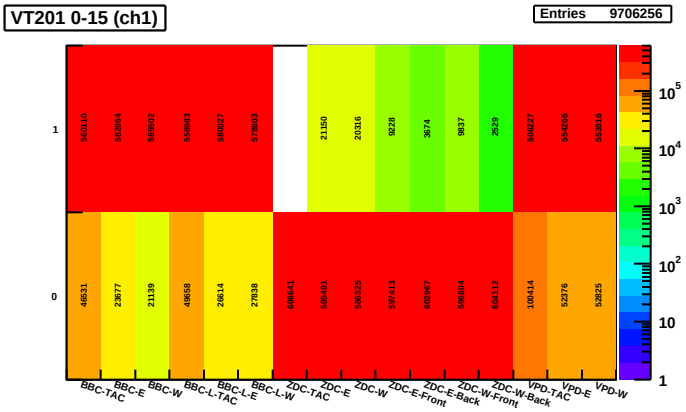

Input to FE003 QT board
Entries 1.941251e+07
ADC
channel

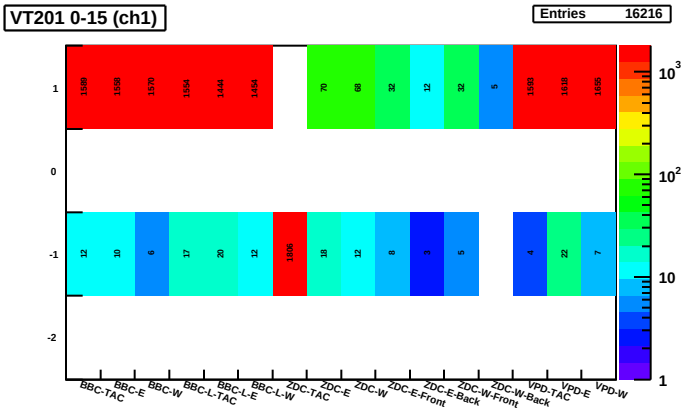

Input to FE004 QT board
Entries 1.941251e+07
ADC
channel


Input to FPE L1 DSM
Entries 2426564
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 9706256
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 11356
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 9706256
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 16216
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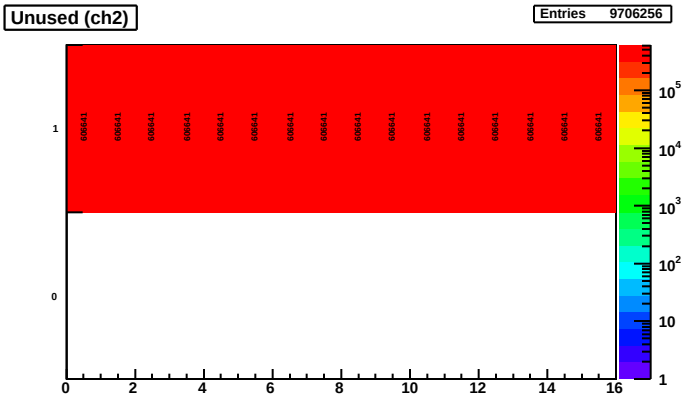
Unused (ch2)
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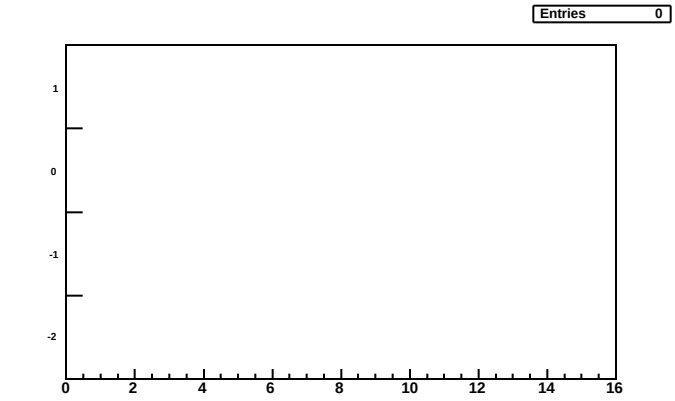
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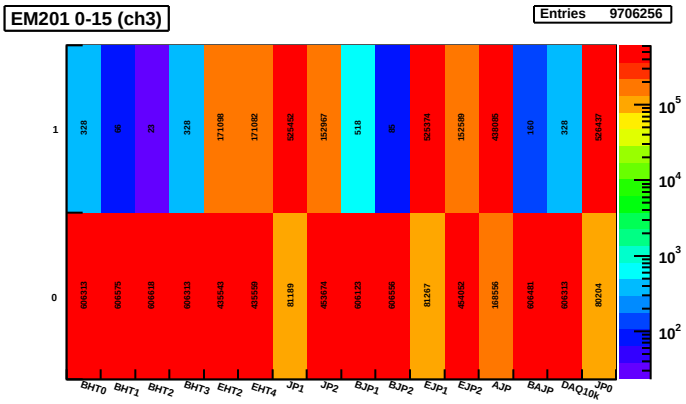
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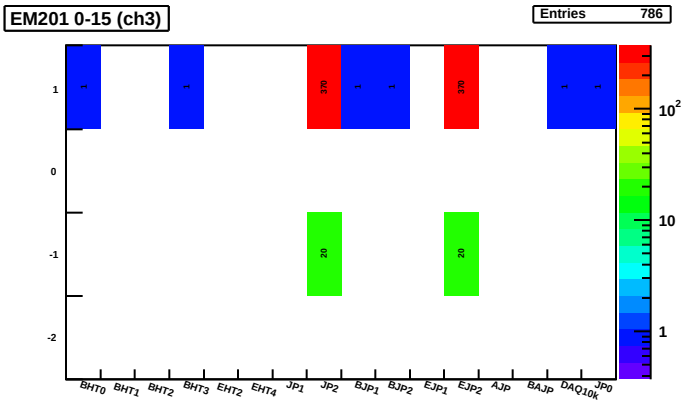
Entries 9706256
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 786
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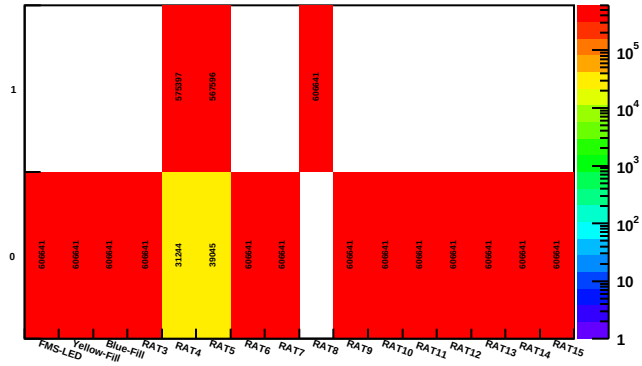
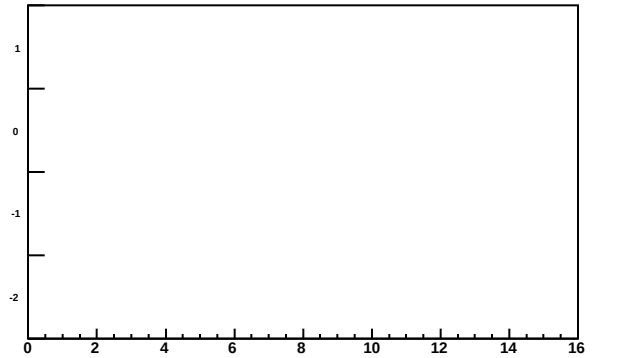
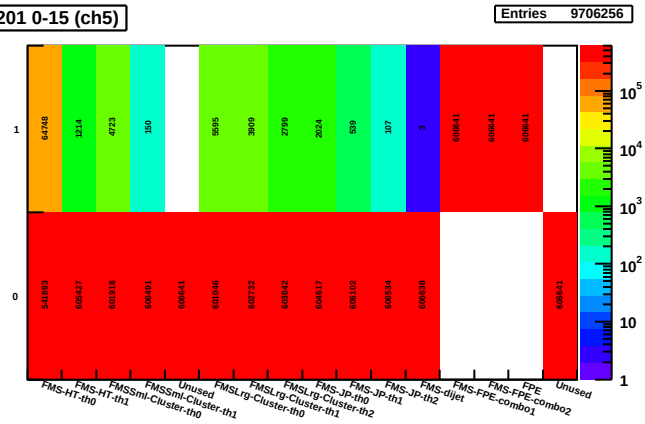
RAT board (ch4)





FP201 0-15 (ch5)



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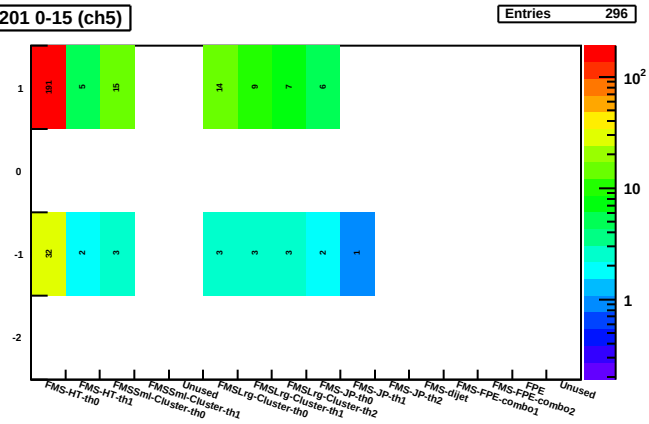
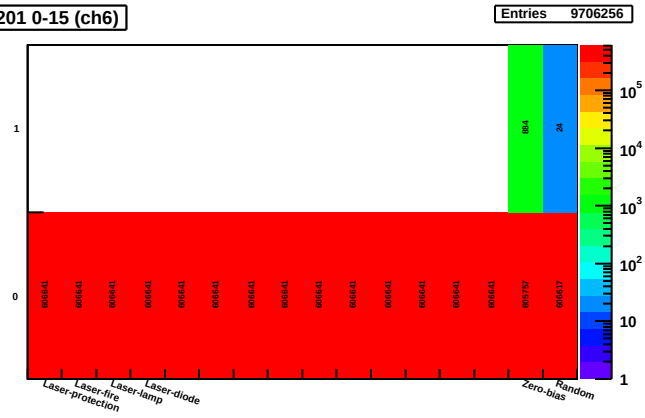
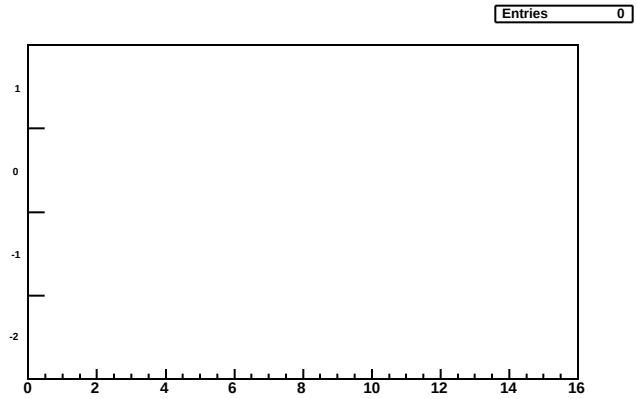
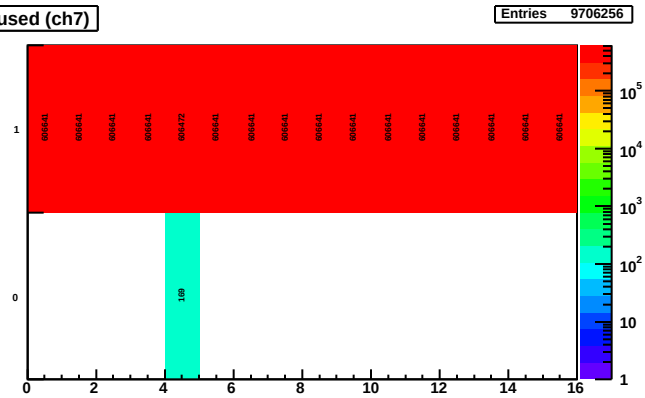
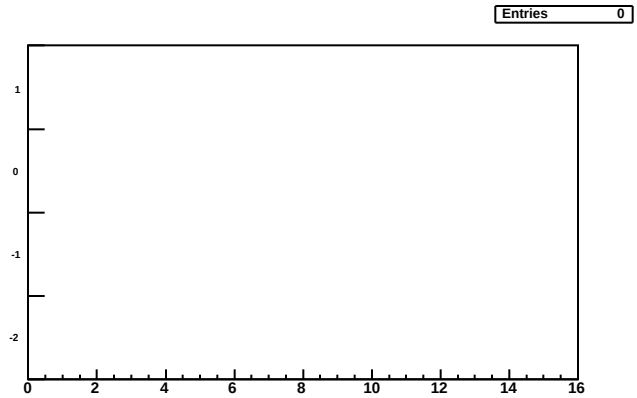


ST201 0-15 (ch6)





Unused (ch7)