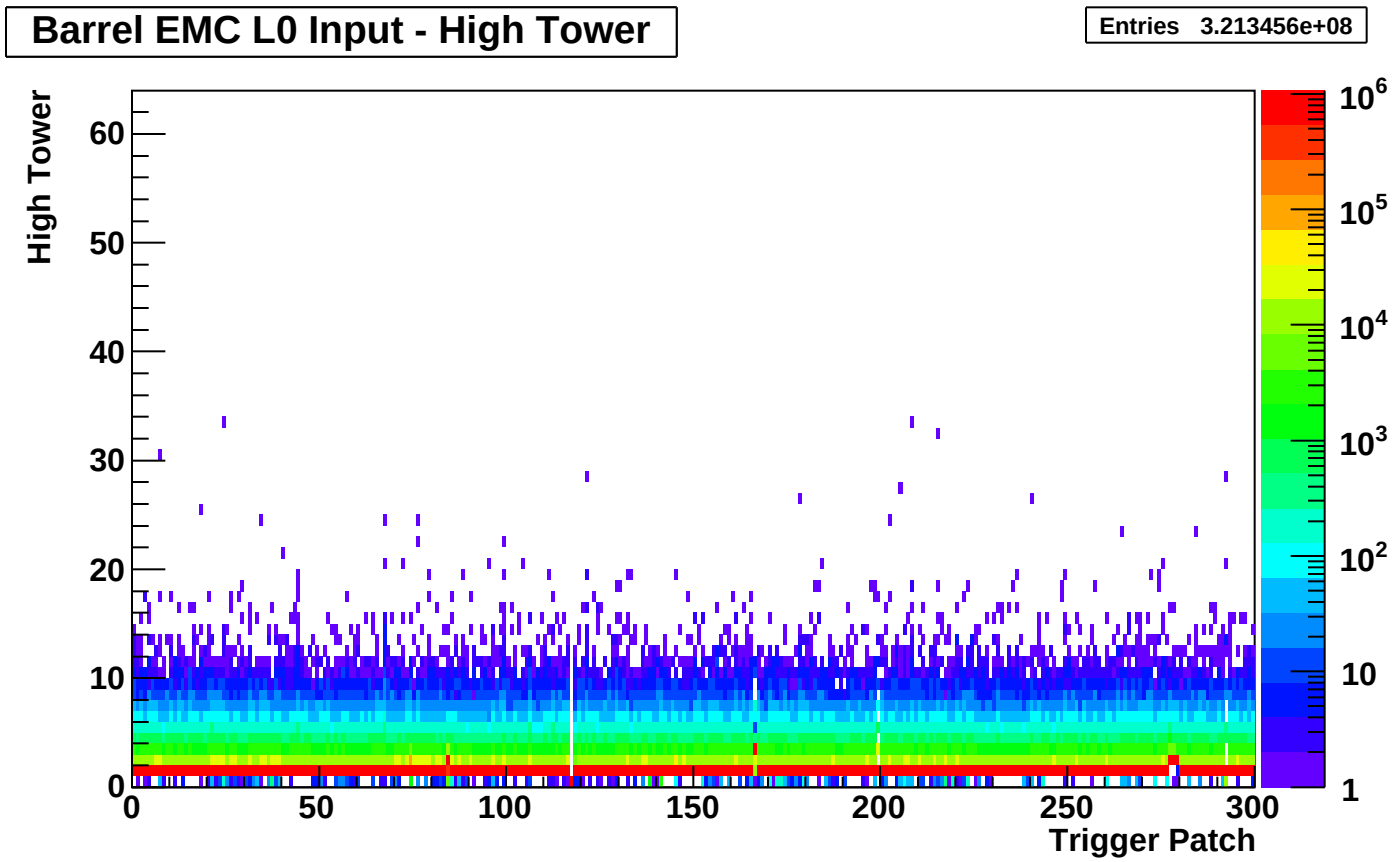
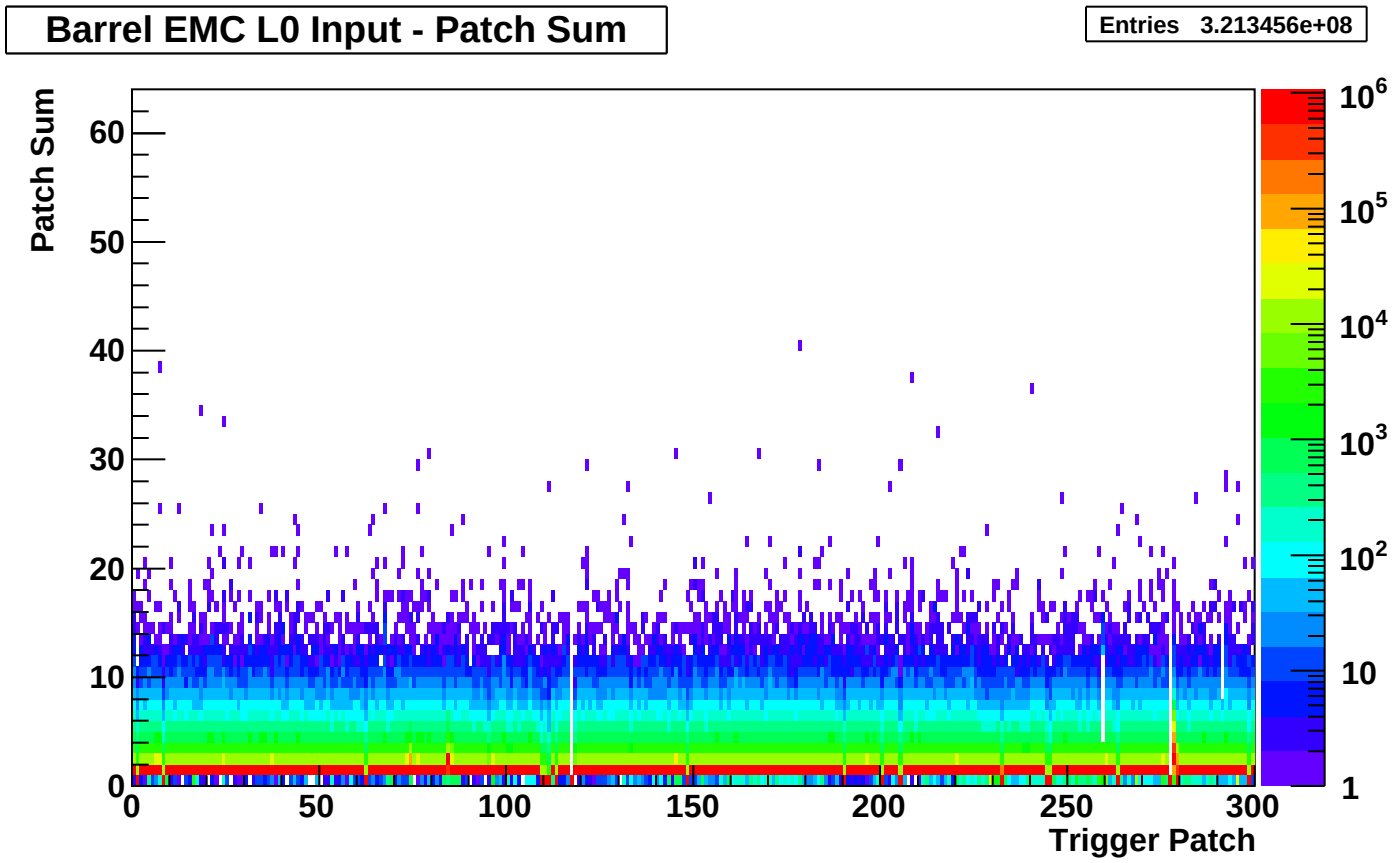
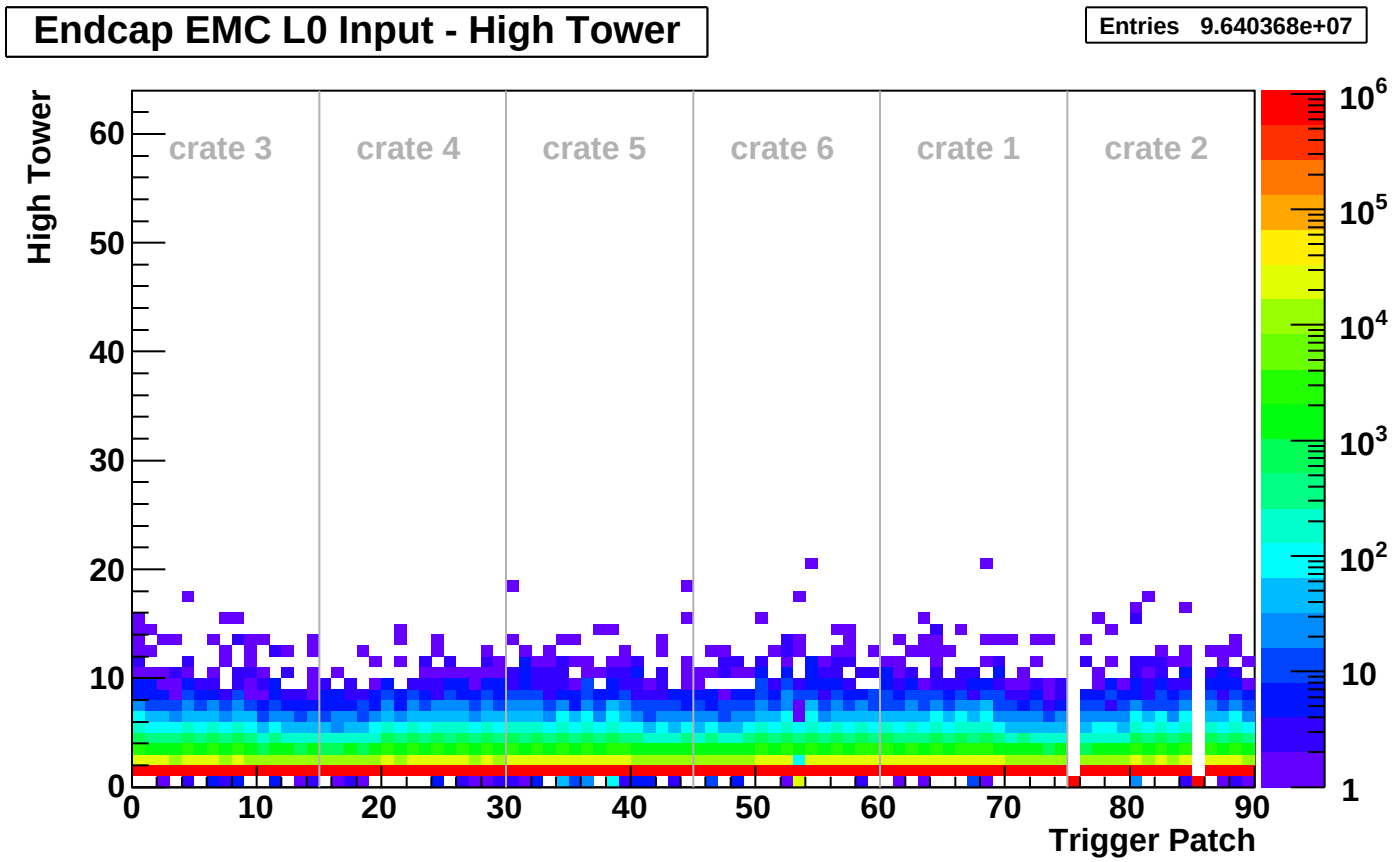
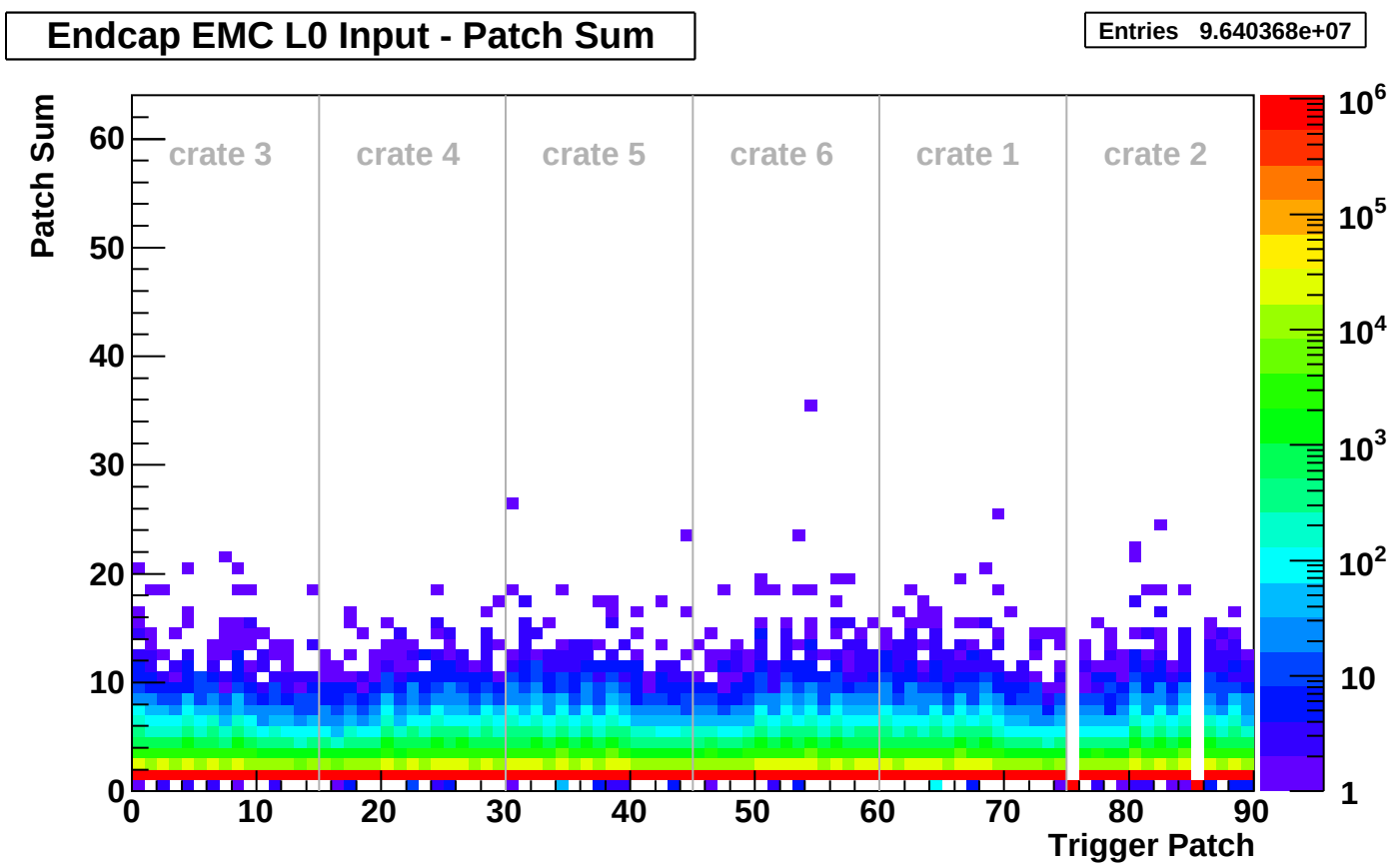
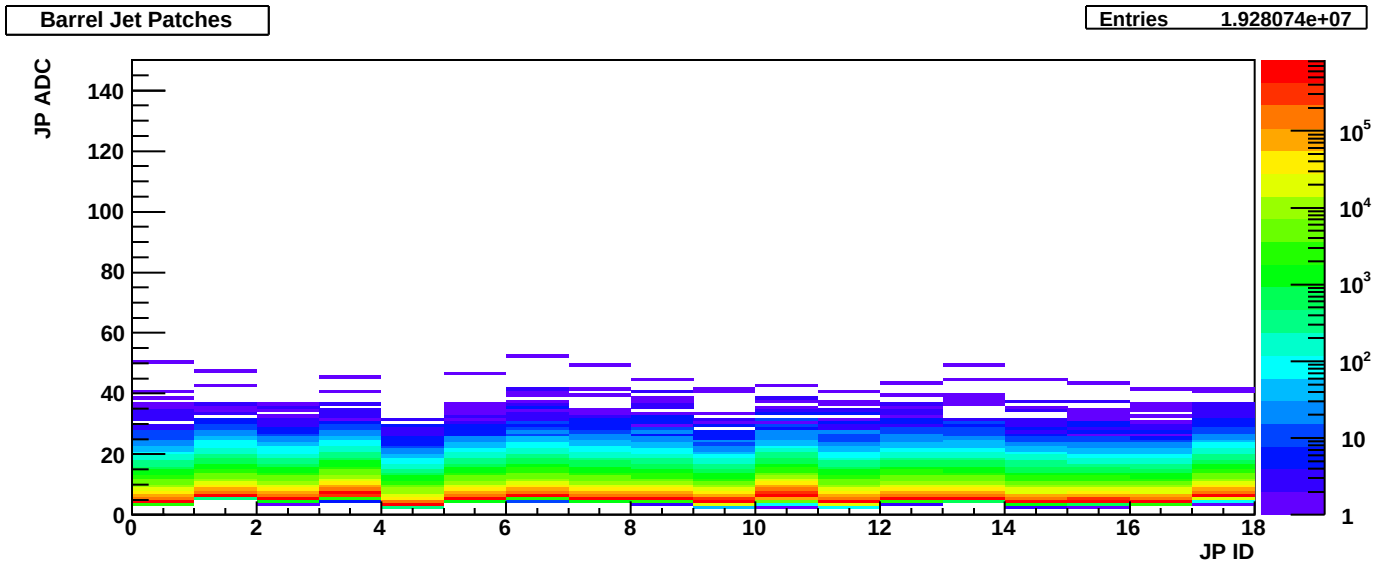
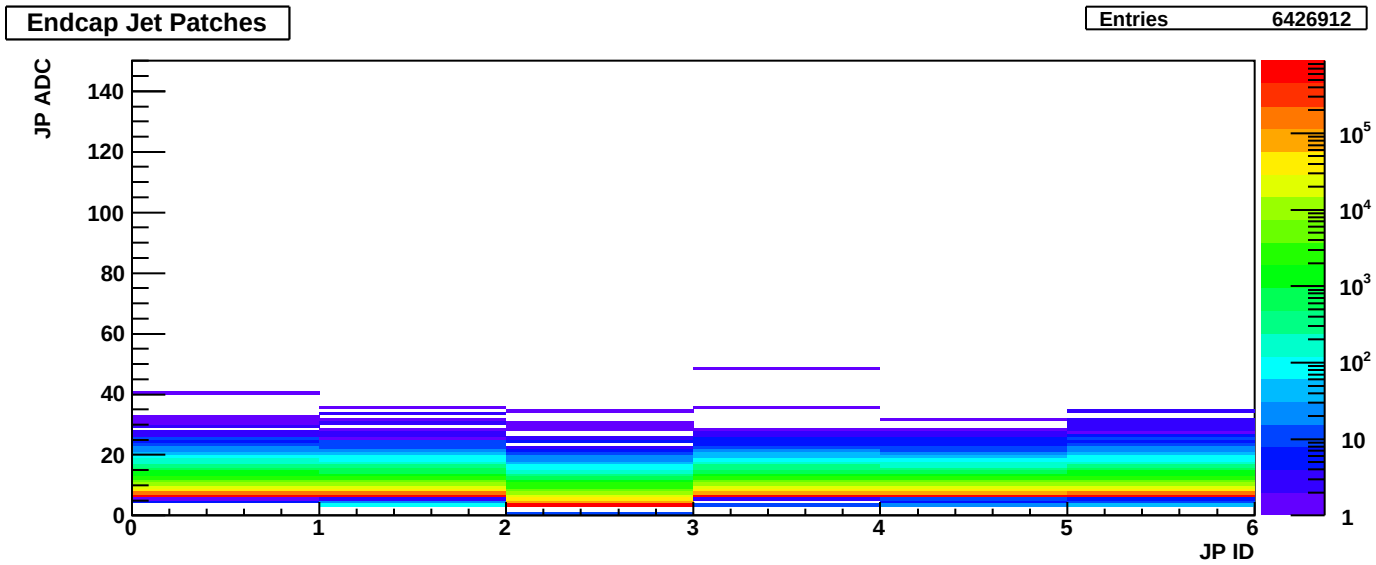

Barrel EMC L0 Input - High Tower
Entries 3.213456e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

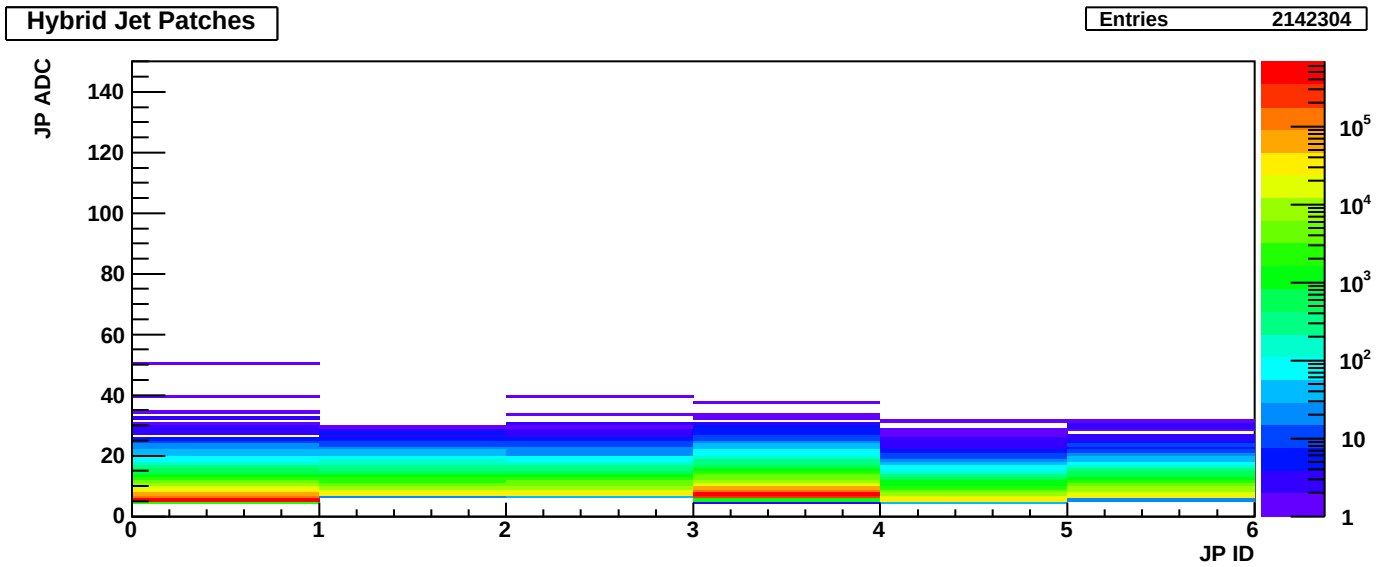

Barrel EMC L0 Input - Patch Sum
Entries 3.213456e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

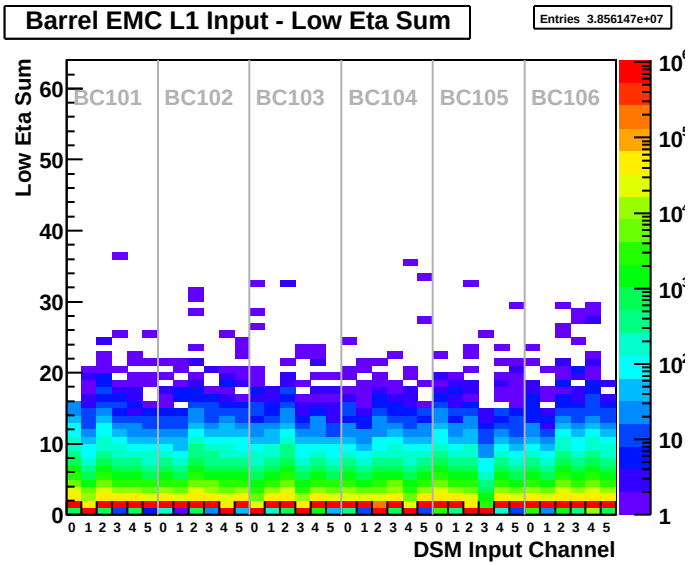

Endcap EMC L0 Input - High Tower
Entries 9.640368e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

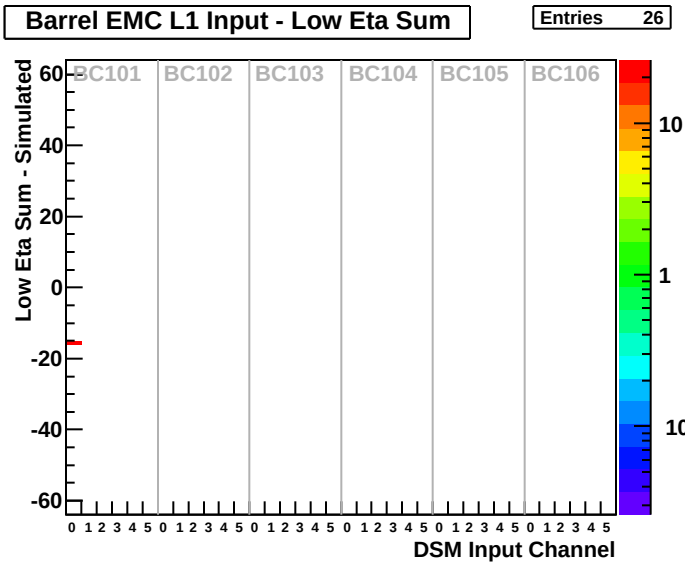

Endcap EMC L0 Input - Patch Sum
Entries 9.640368e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

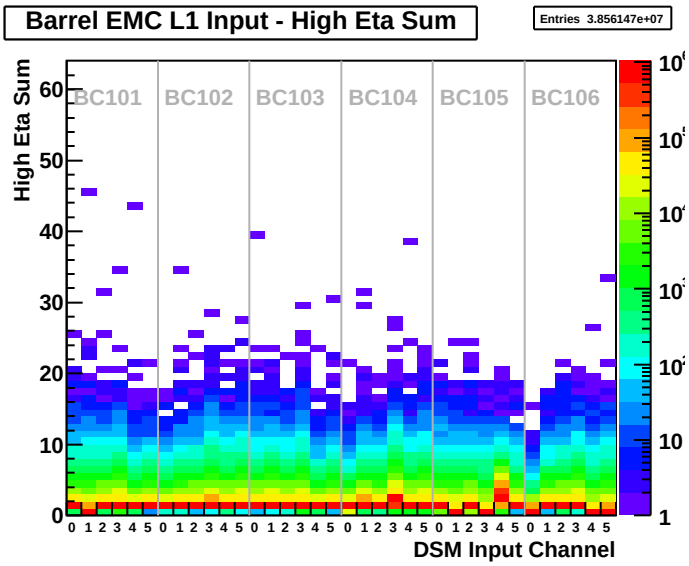

Barrel Jet Patches
Entries 1.928074e+07
JP ADC
JP ID

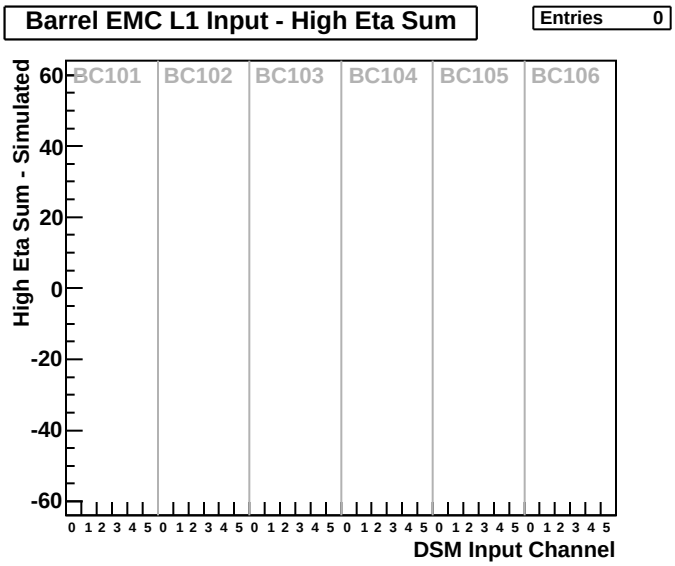

Endcap Jet Patches
Entries 6426912
JP ADC
JP ID

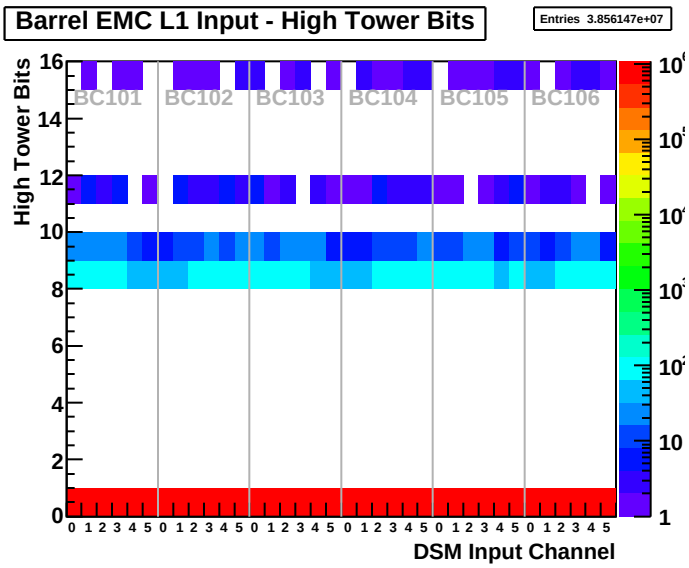

Hybrid Jet Patches
Entries 2142304
JP ADC
JP ID

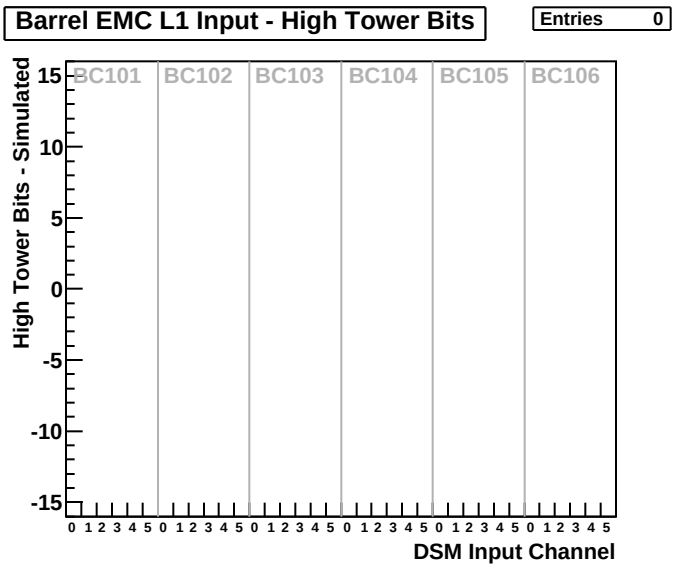

Barrel EMC L1 Input - Low Eta Sum
Entries 3.856147e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

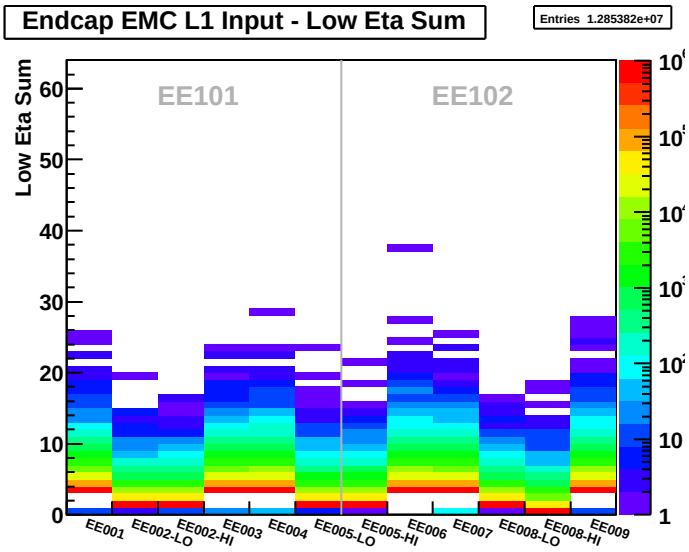

Barrel EMC L1 Input - Low Eta Sum
Entries 26
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

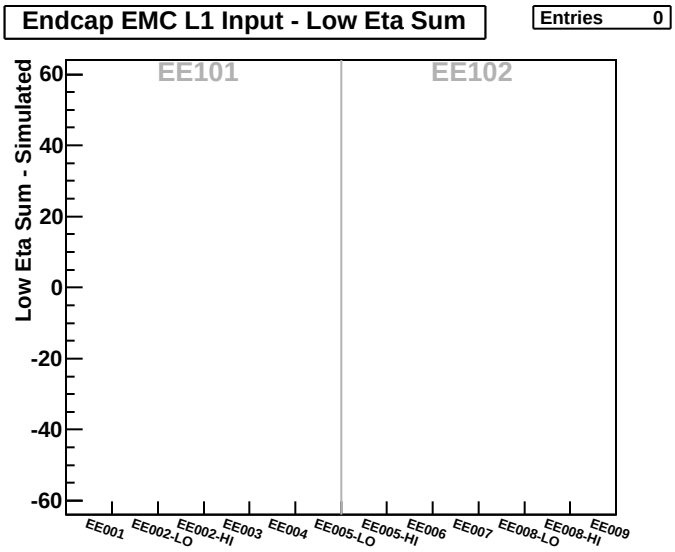

Barrel EMC L1 Input - High Eta Sum
Entries 3.856147e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

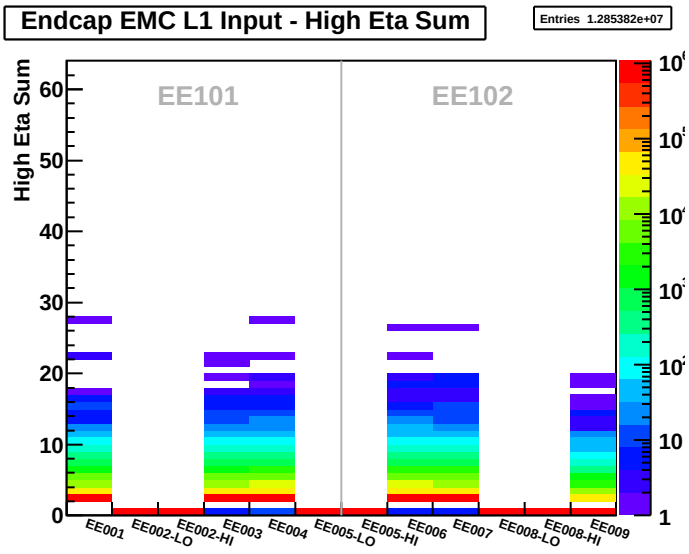

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

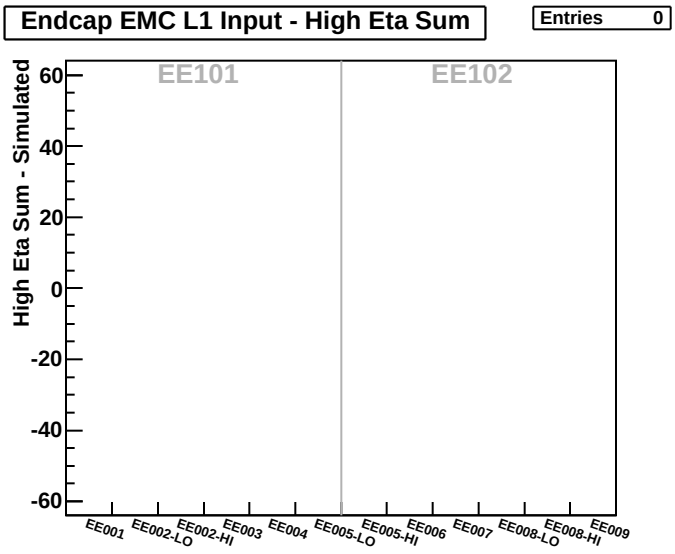

Barrel EMC L1 Input - High Tower Bits
Entries 3.856147e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

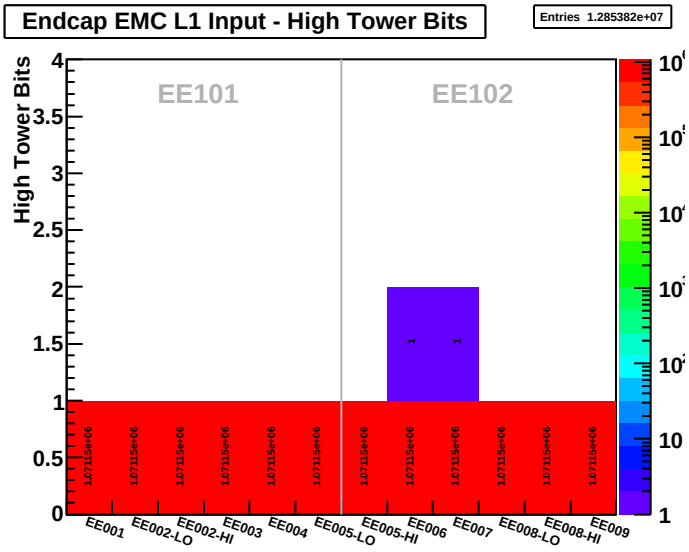

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

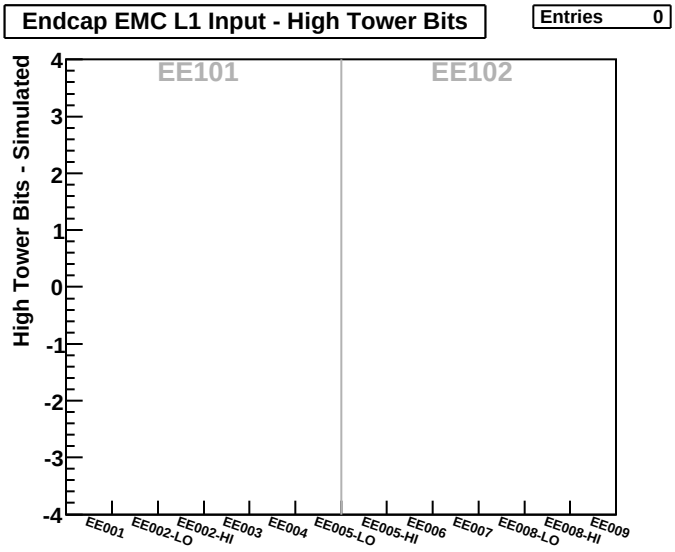

Endcap EMC L1 Input - Low Eta Sum
Entries 1.285382e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

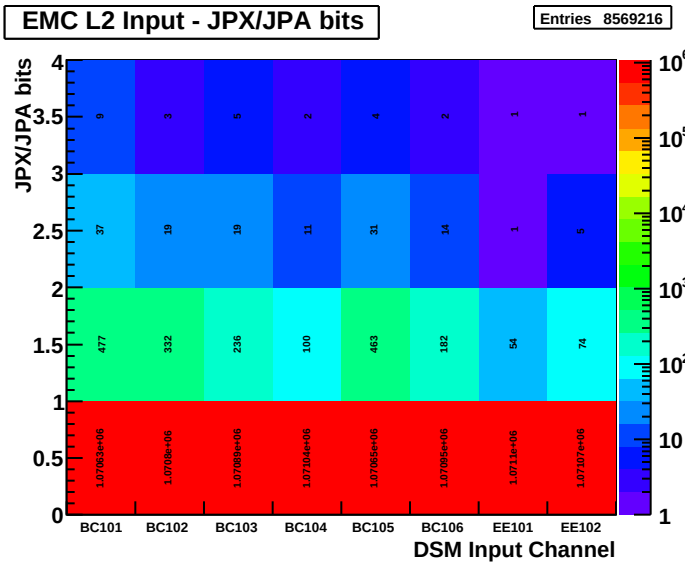

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

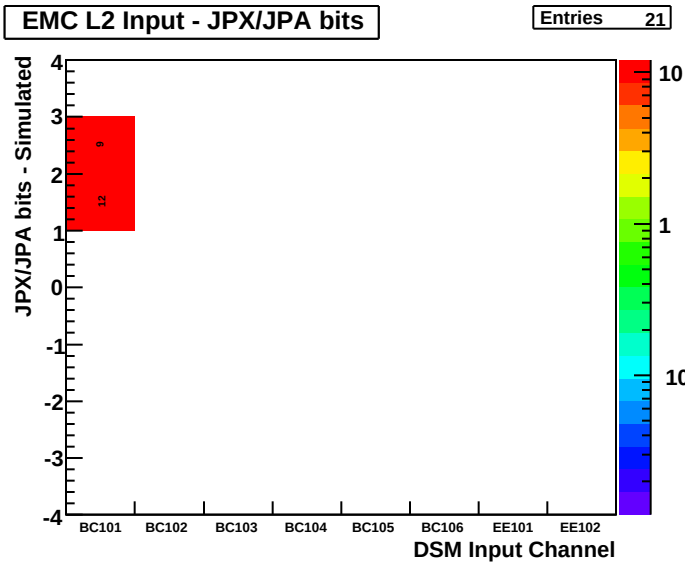

Endcap EMC L1 Input - High Eta Sum
Entries 1.285382e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

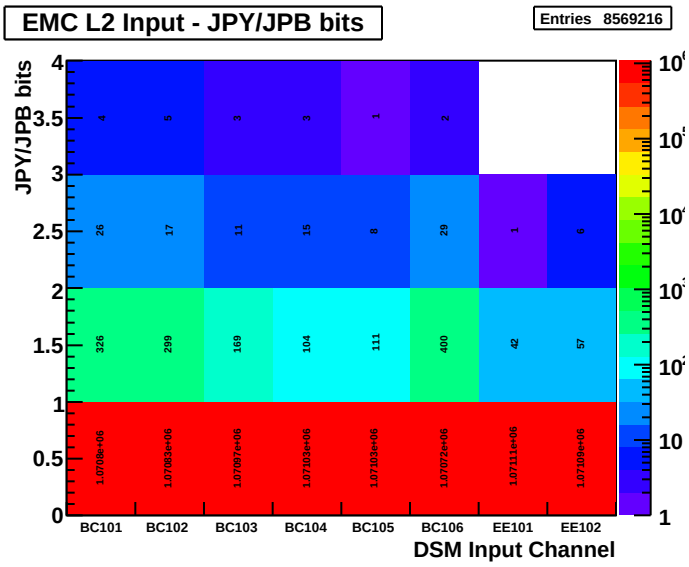

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

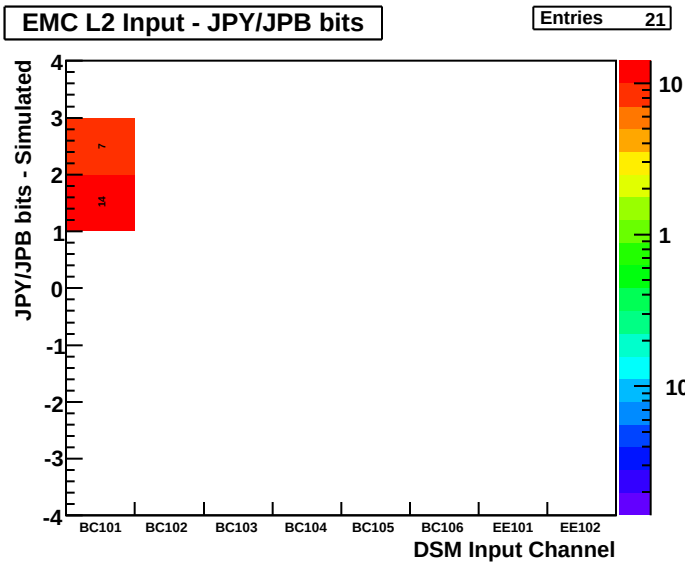

Endcap EMC L1 Input - High Tower Bits
Entries 1.285382e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

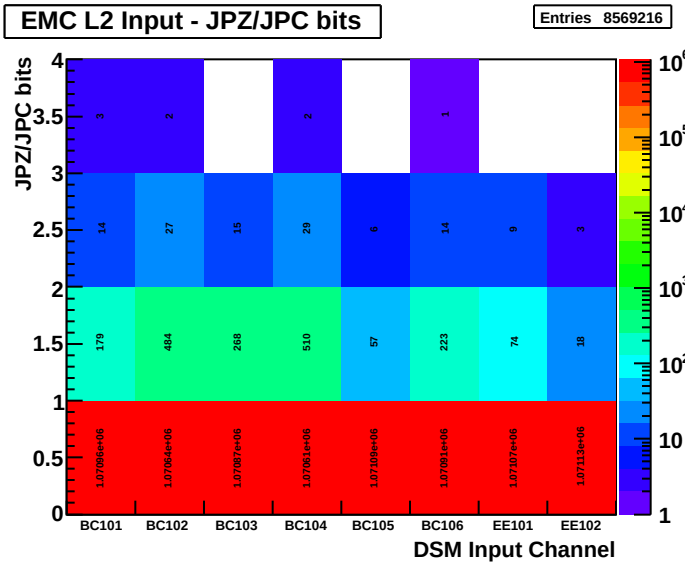

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

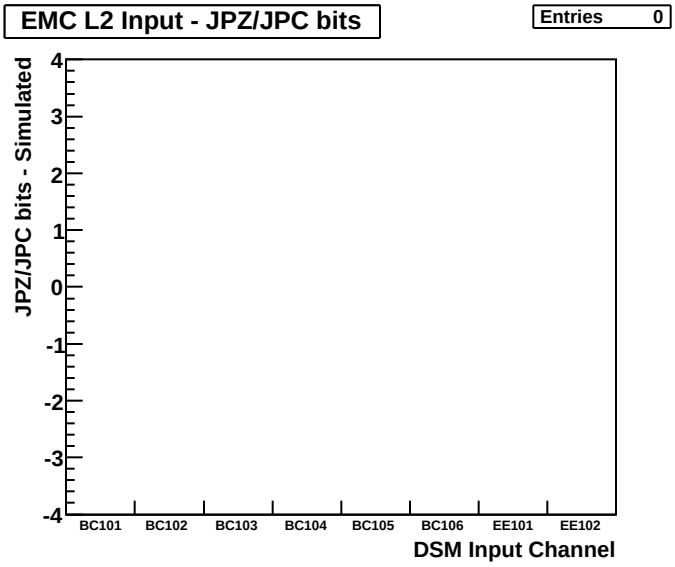

EMC L2 Input - JPX/JPA bits
Entries 8569216
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9 3 5 2 4 2 1 1
37 19 19 11 31 14 1 5
477 332 236 100 463 182 54 74
1.07063e+06 1.07068e+06 1.07069e+06 1.07104e+06 1.07065e+06 1.07095e+06 1.0711e+06 1.07107e+06

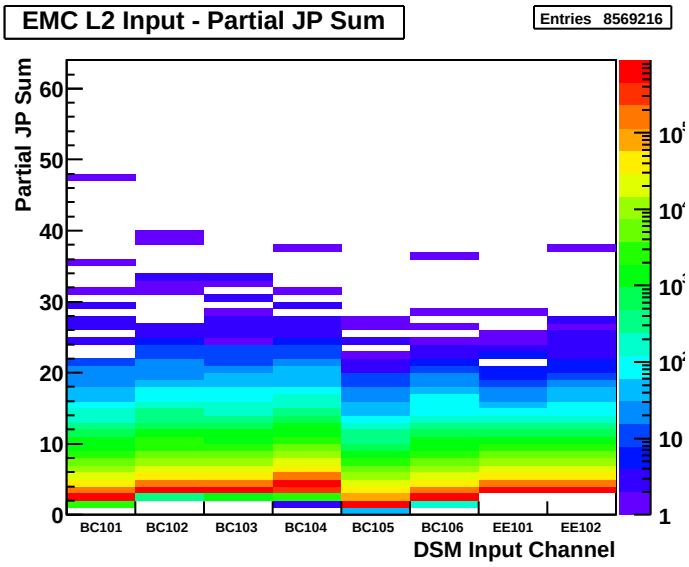

EMC L2 Input - JPX/JPA bits
Entries 21
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
9
12

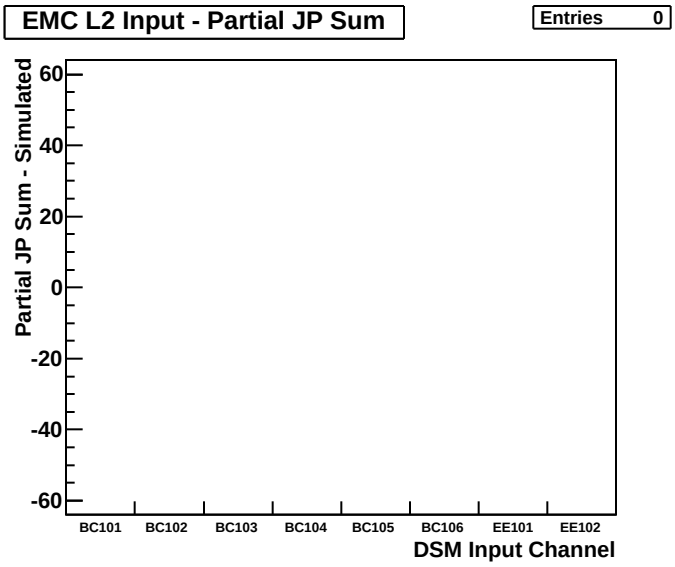

EMC L2 Input - JPY/JPB bits
Entries 8569216
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4 5 3 3 1 2
26 17 11 15 8 29 1 6
326 299 169 104 111 400 42 57
1.07068e+06 1.07063e+06 1.07097e+06 1.07103e+06 1.07103e+06 1.07072e+06 1.07111e+06 1.07109e+06

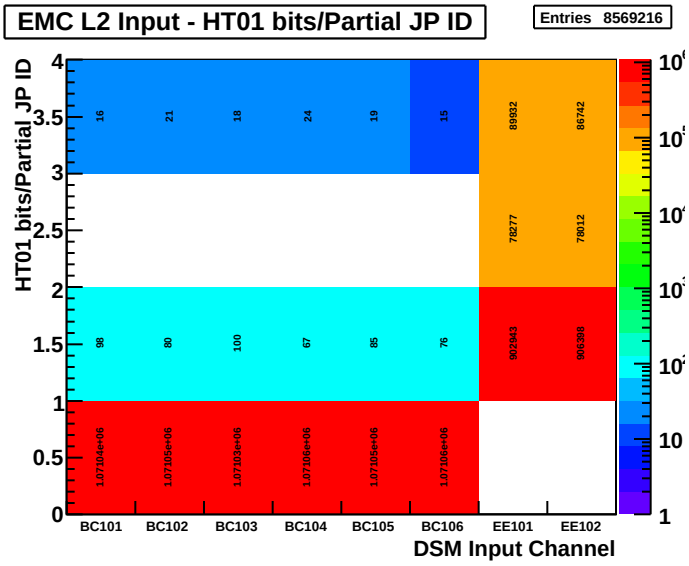

EMC L2 Input - JPY/JPB bits
Entries 21
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
7
14

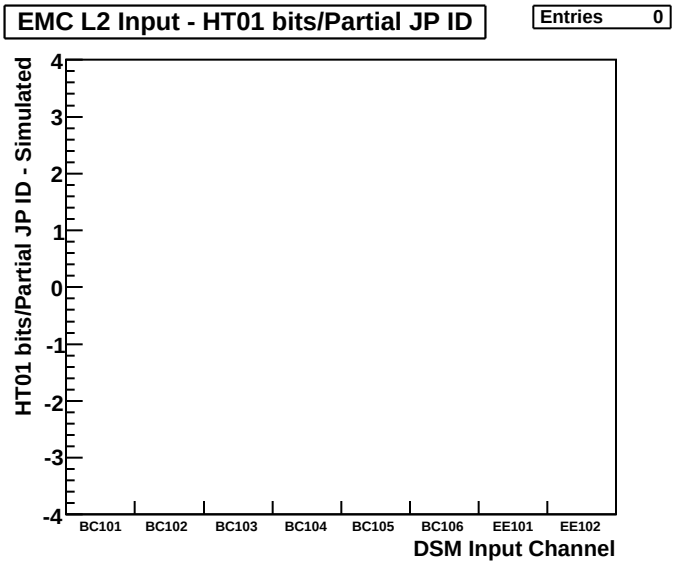

EMC L2 Input - JPZ/JPC bits
Entries 8569216
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 2 2 1
14 27 15 29 6 14 9 3
179 484 268 510 57 223 74 18
1.07096e+06 1.07064e+06 1.07087e+06 1.07061e+06 1.07109e+06 1.07091e+06 1.07107e+06 1.07113e+06

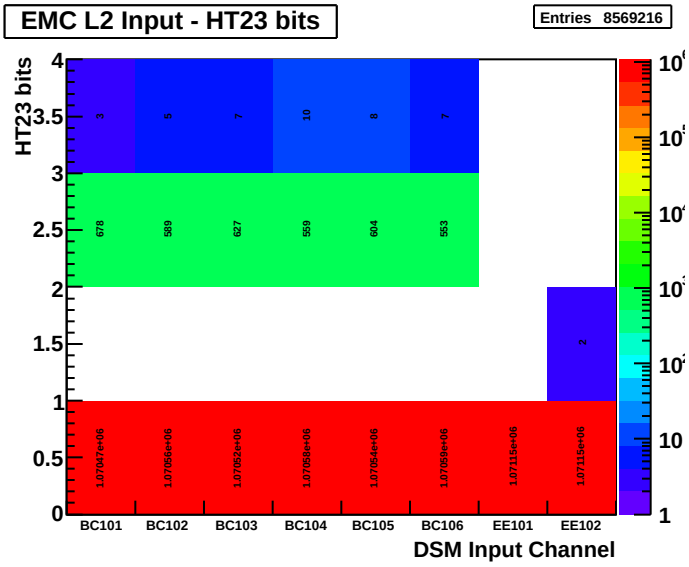

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

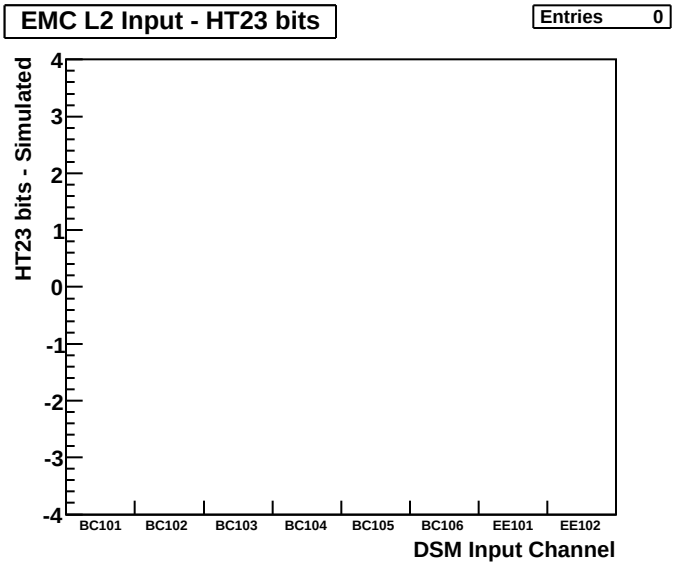

EMC L2 Input - Partial JP Sum
Entries 8569216
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

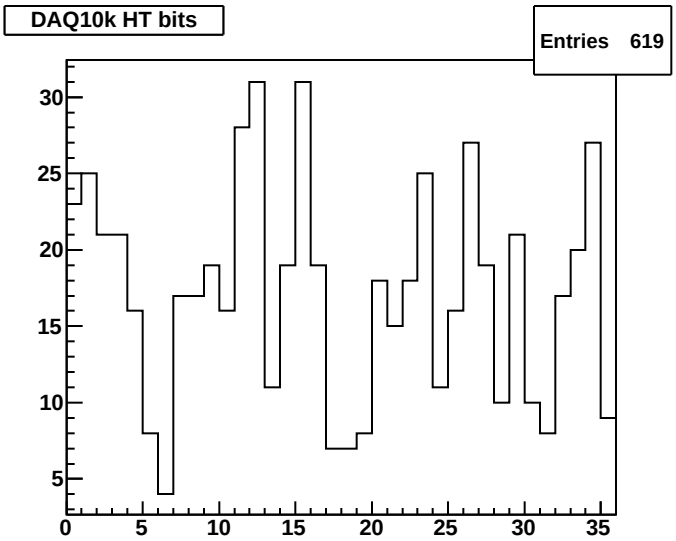

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

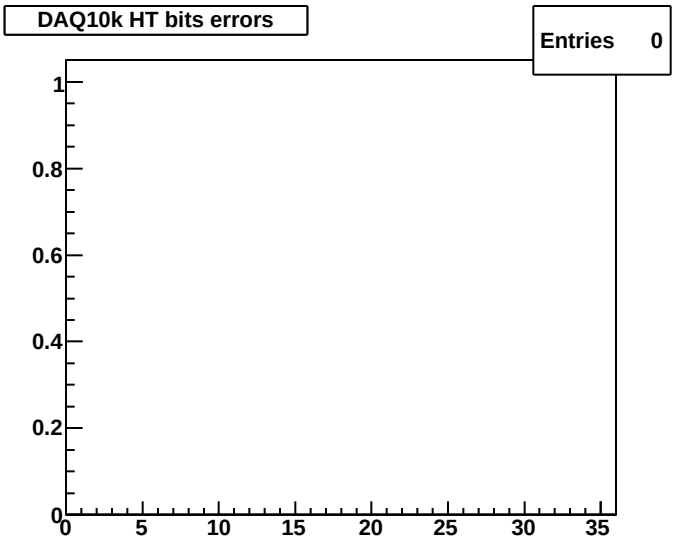

EMC L2 Input - HT01 bits/Partial JP ID
Entries 8569216
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

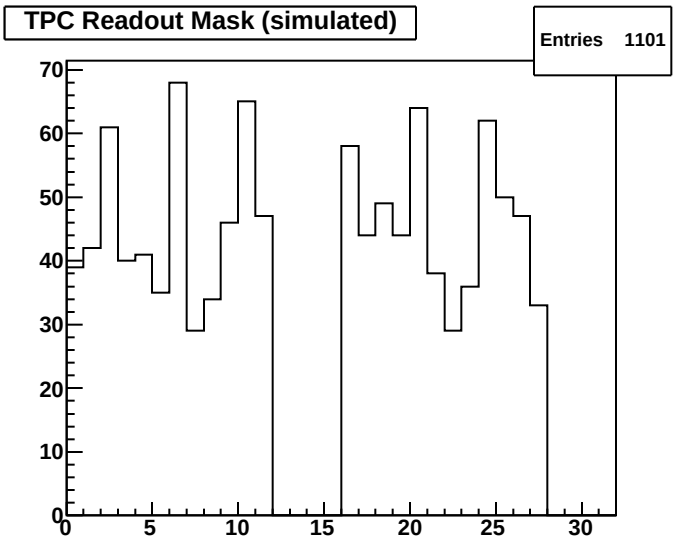

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

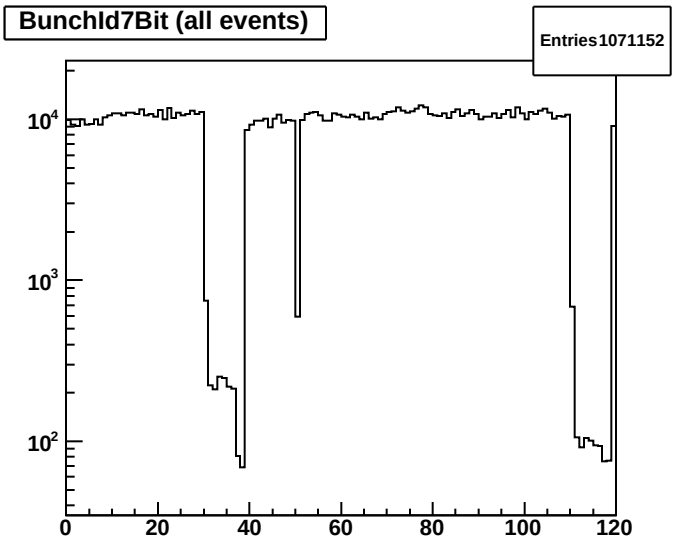

EMC L2 Input - HT23 bits
Entries 8569216
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

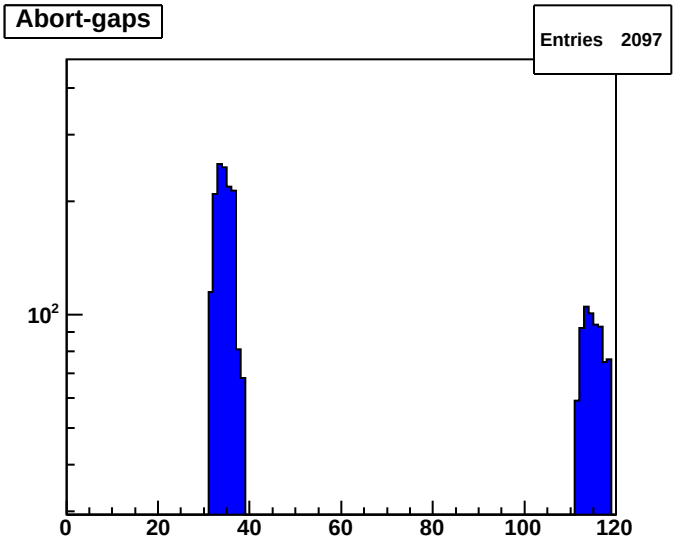

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

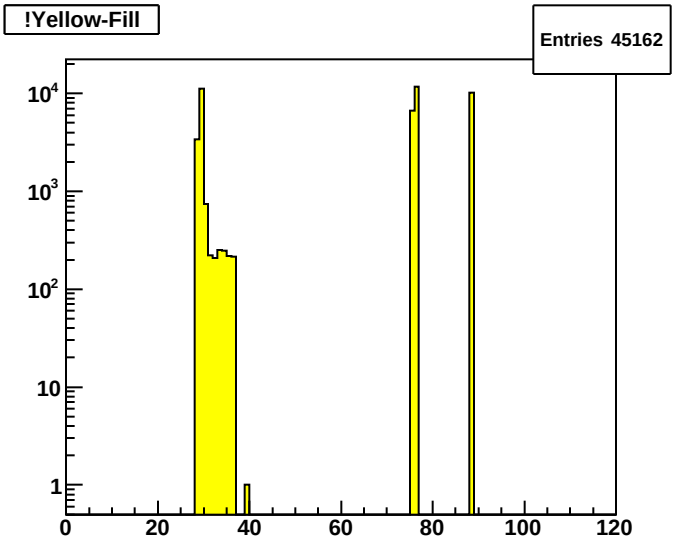

DAQ10k HT bits
Entries 619

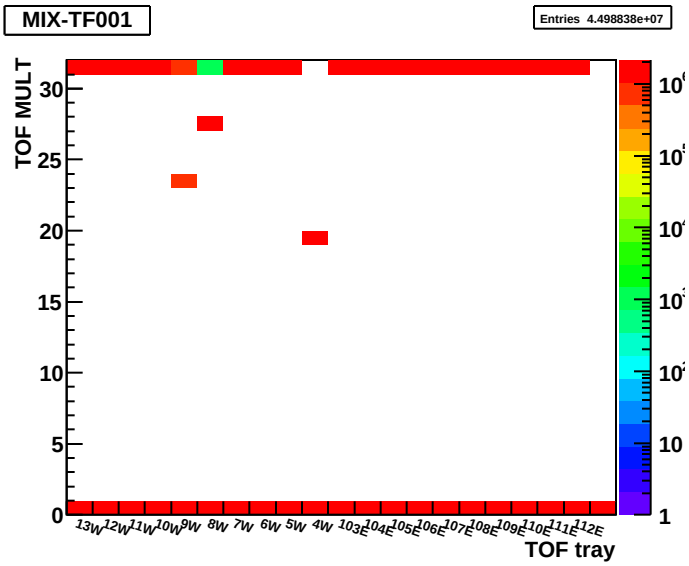

DAQ10k HT bits errors
Entries 0

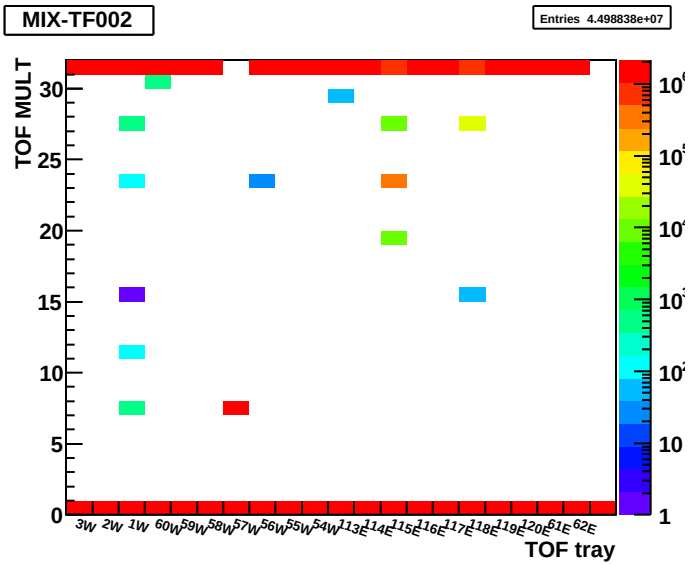

TPC Readout Mask (simulated)
Entries 1101

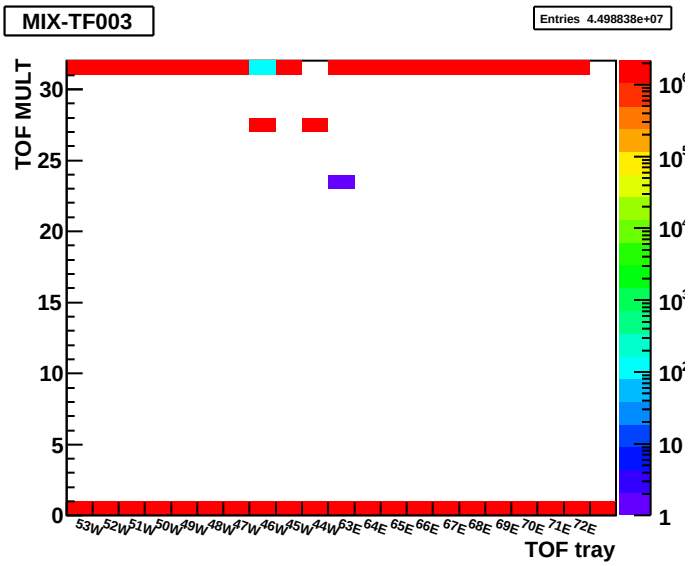

BunchId7Bit (all events)
Entries 1071152

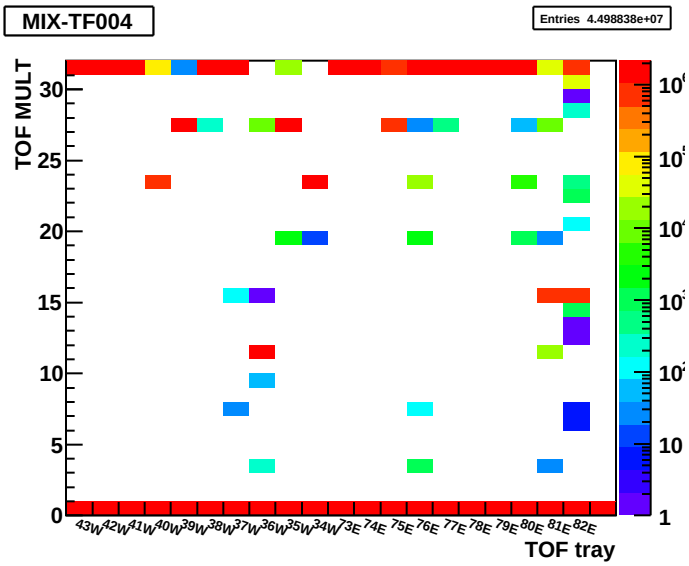

Abort-gaps
Entries 2097

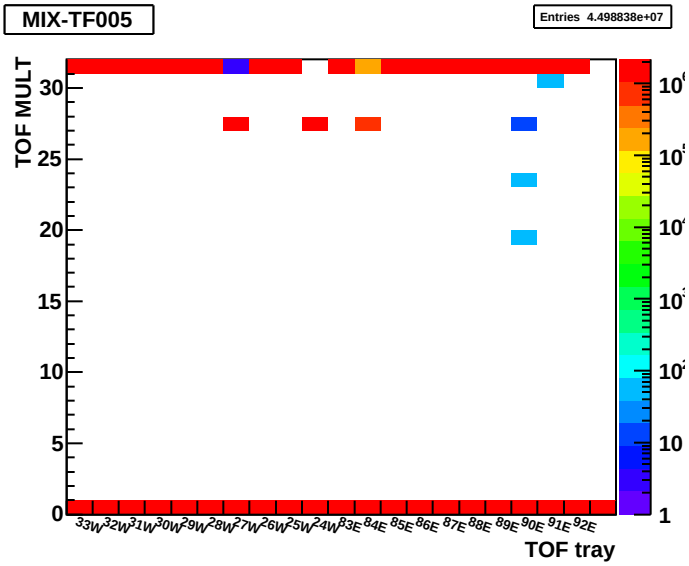

!Yellow-Fill
Entries 45162

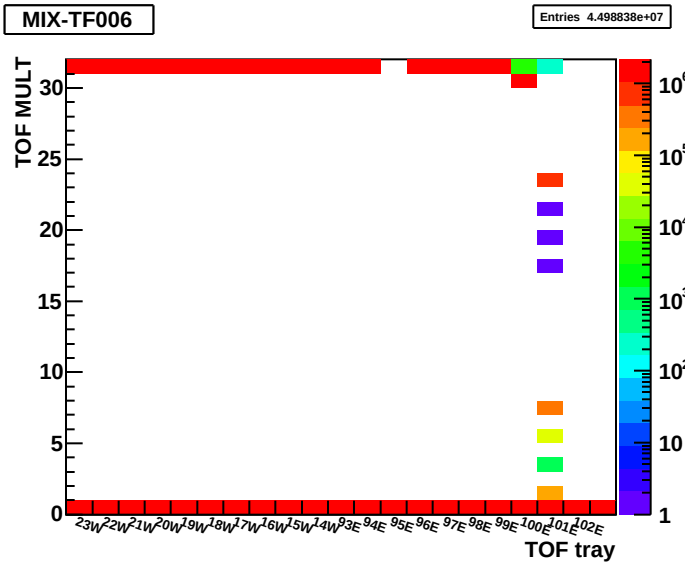

MIX-TF001
Entries 4.498838e+07
TOF MULT
TOF tray

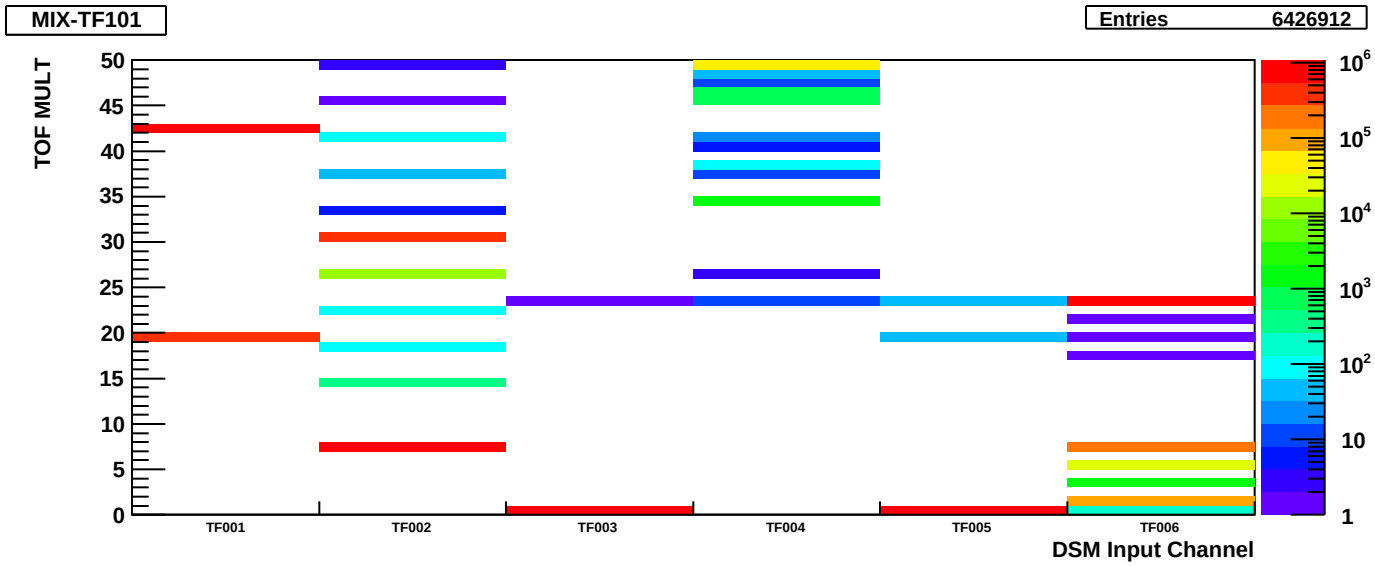

MIX-TF002
Entries 4.498838e+07
TOF MULT
TOF tray

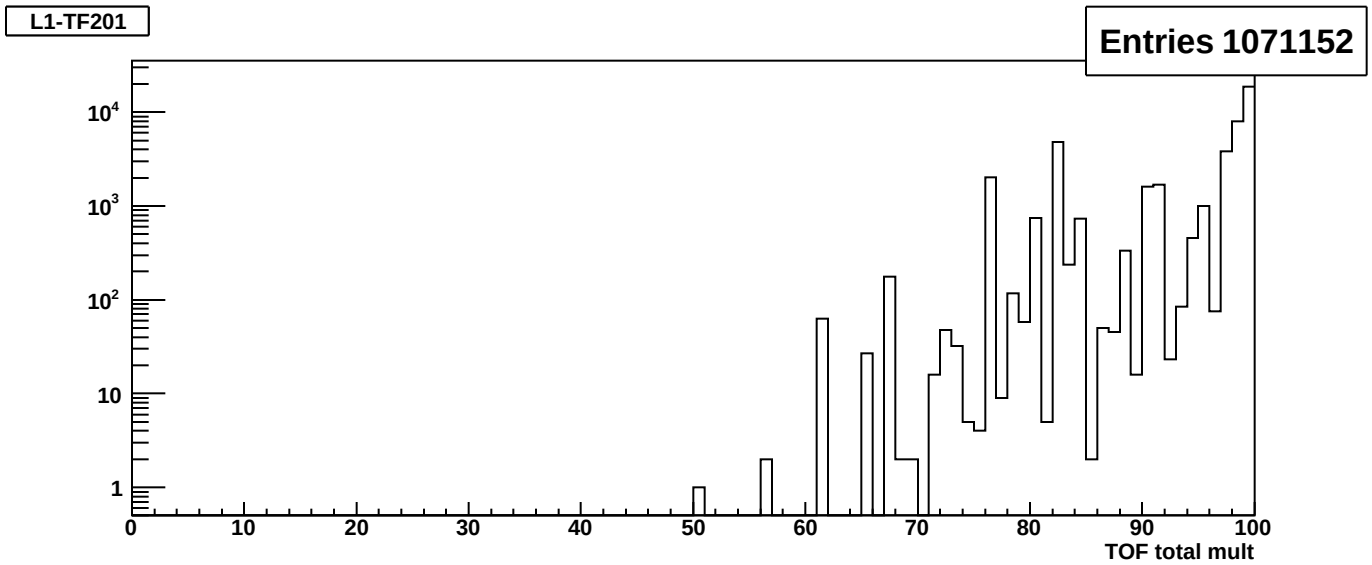

MIX-TF003
Entries 4.498838e+07
TOF MULT
TOF tray

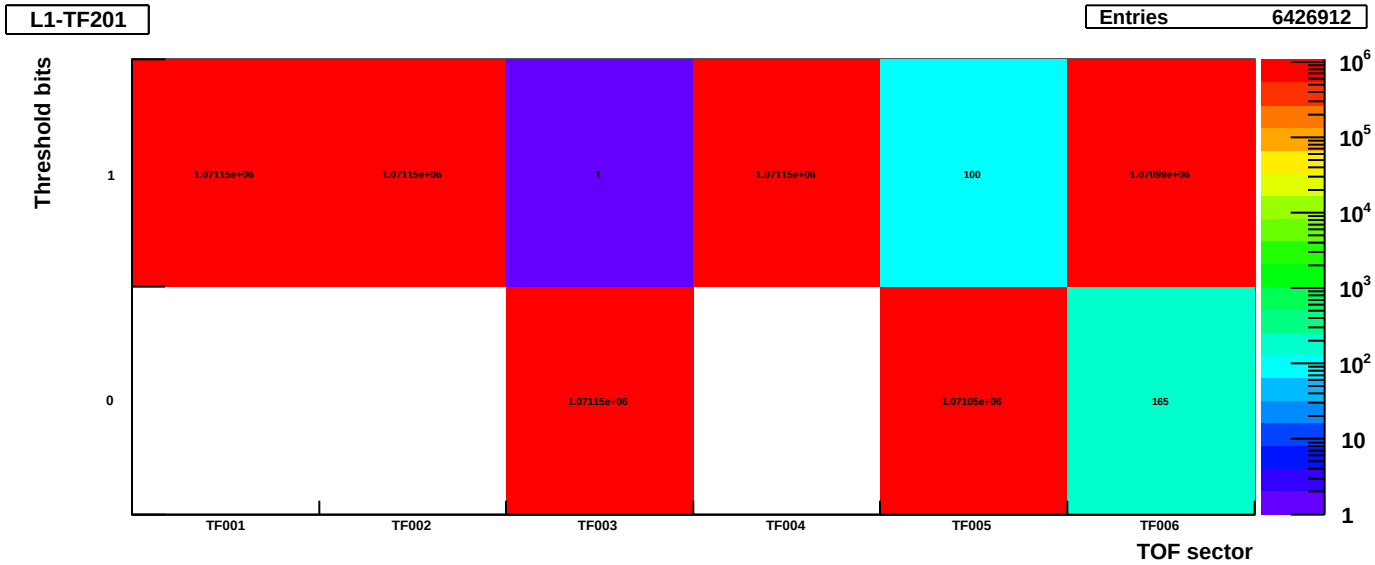

MIX-TF004
Entries 4.498838e+07
TOF MULT
TOF tray

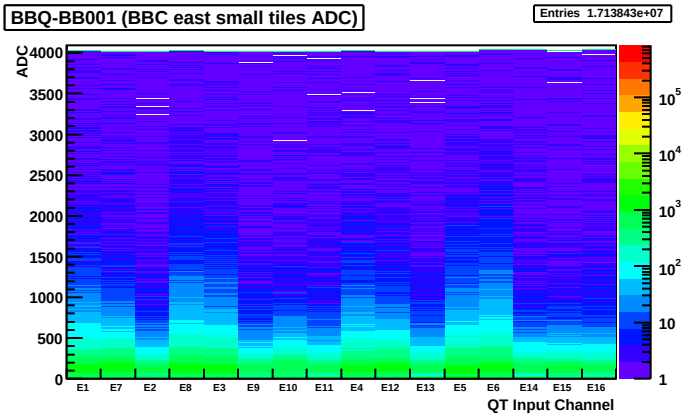

MIX-TF005
Entries 4.498838e+07
TOF MULT
TOF tray

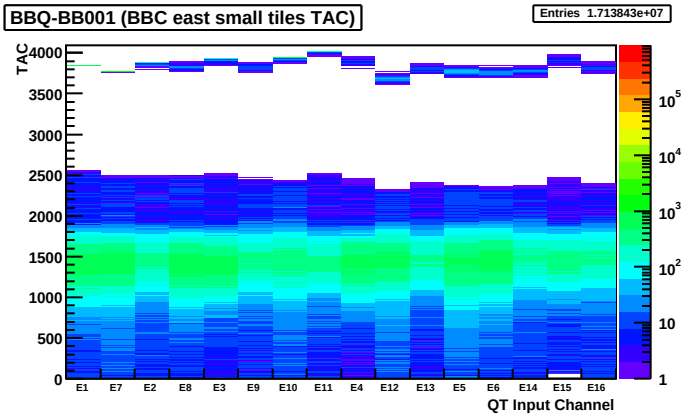

MIX-TF006
Entries 4.498838e+07
TOF MULT
TOF tray

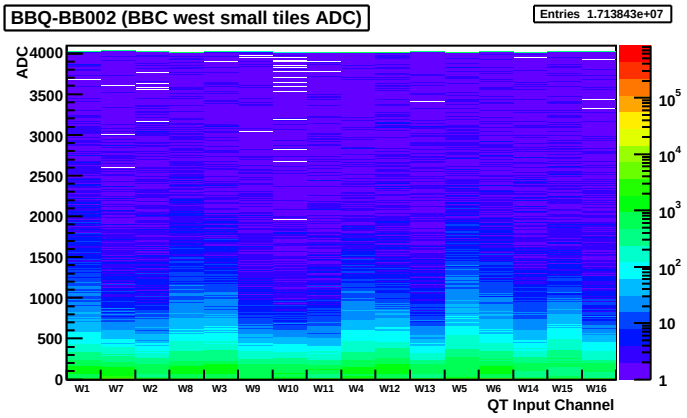

MIX-TF101
Entries 6426912
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

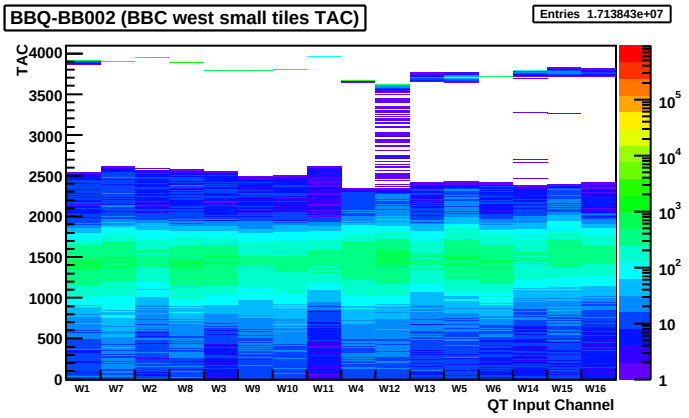

L1-TF201
Entries 1071152
TOF total mult

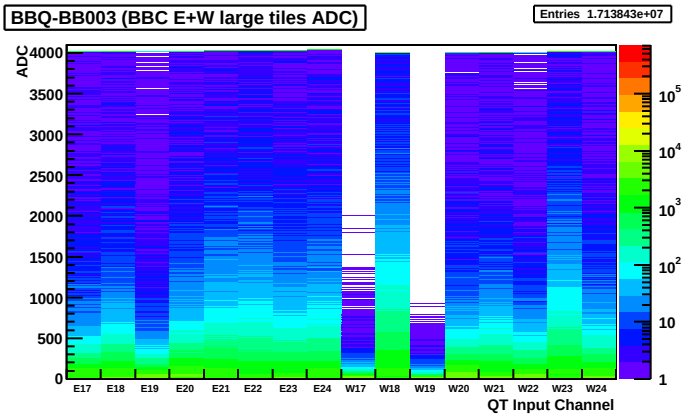

L1-TF201
Entries 6426912
Threshold bits
TOF sector
TF001
TF002
TF003
TF004
TF005
TF006
1.07115e+06
1.07115e+06
1
1.07115e+06
100
1.07099e+06
1.07115e+06
1.07105e+06
165

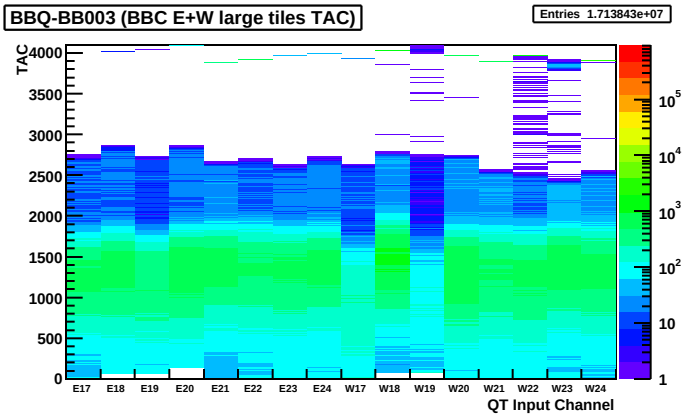

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.713843e+07
ADC
QT Input Channel

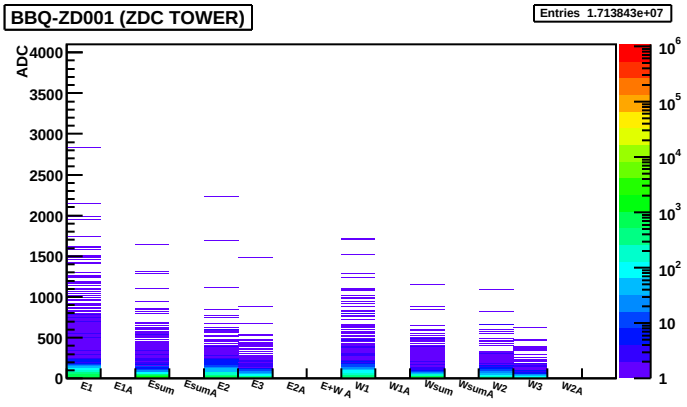

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.713843e+07
TAC
QT Input Channel

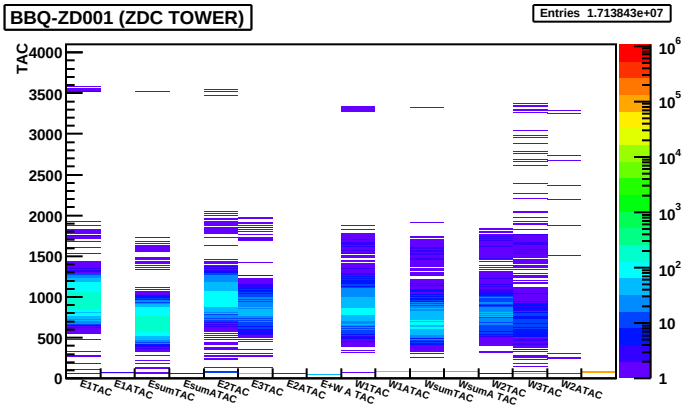

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.713843e+07
ADC
QT Input Channel

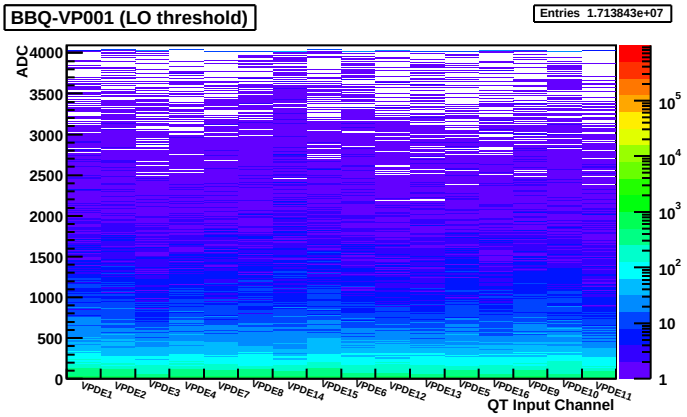

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.713843e+07
TAC
QT Input Channel

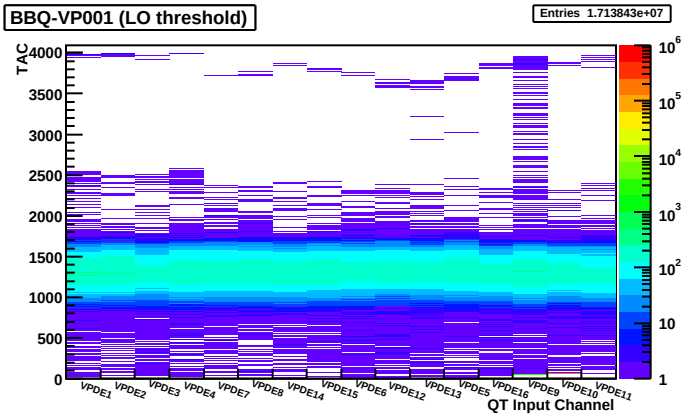

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.713843e+07
ADC
QT Input Channel

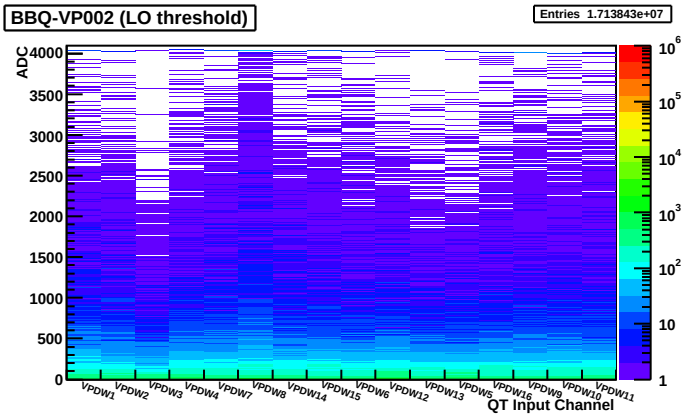

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.713843e+07
TAC
QT Input Channel

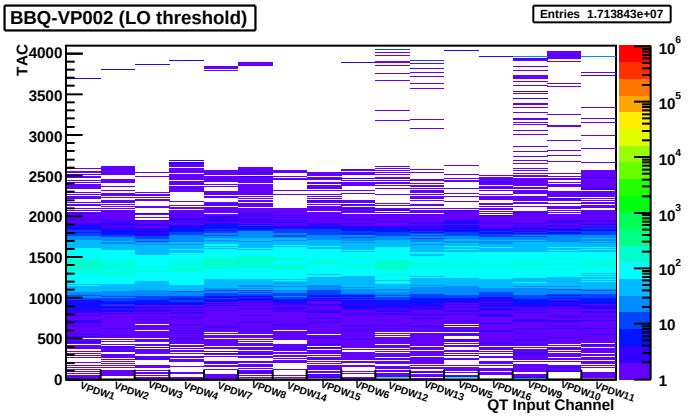

BBQ-ZD001 (ZDC TOWER)
Entries 1.713843e+07
ADC

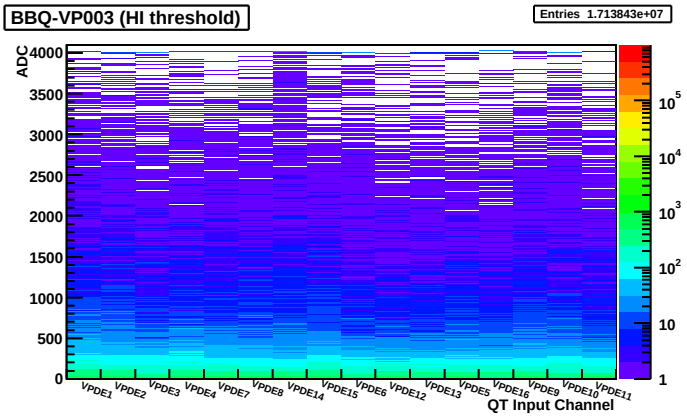

BBQ-ZD001 (ZDC TOWER)
Entries 1.713843e+07
TAC

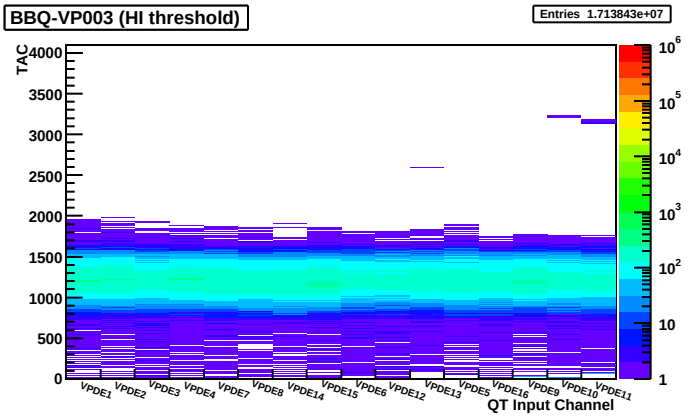

BBQ-VP001 (LO threshold)
Entries 1.713843e+07
ADC
QT Input Channel

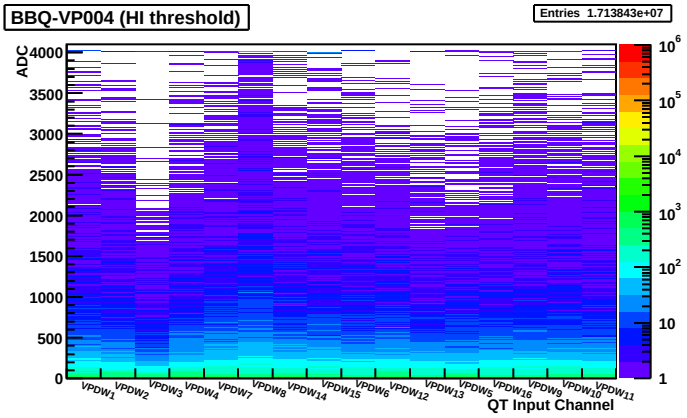

BBQ-VP001 (LO threshold)
Entries 1.713843e+07
TAC
QT Input Channel

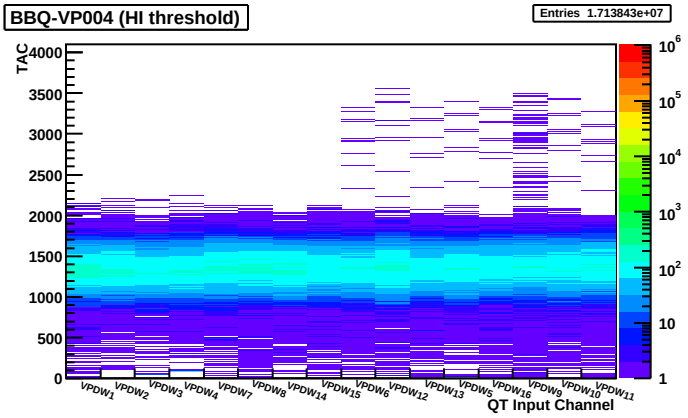

BBQ-VP002 (LO threshold)
Entries 1.713843e+07
ADC
QT Input Channel

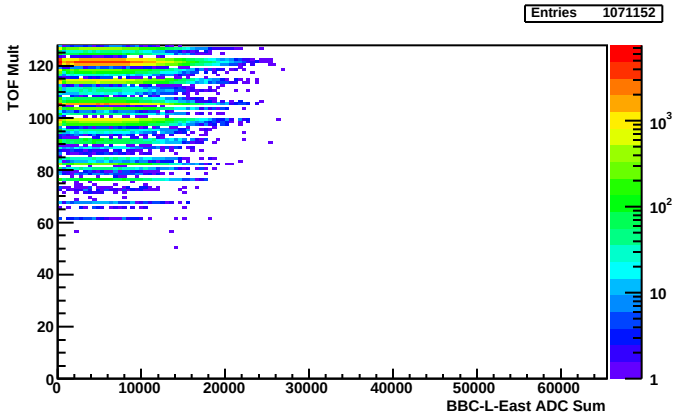

BBQ-VP002 (LO threshold)
Entries 1.713843e+07
TAC
QT Input Channel

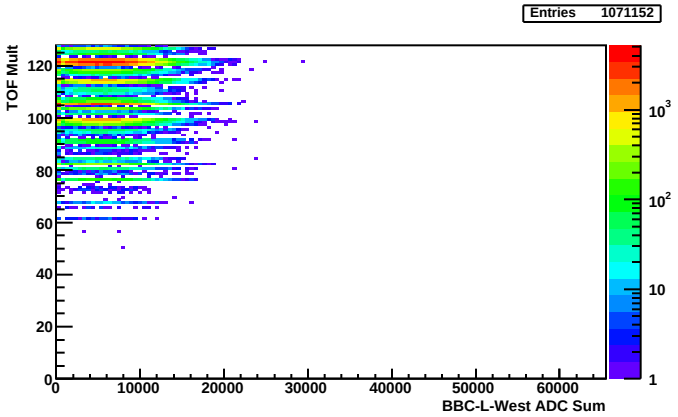

BBQ-VP003 (HI threshold)
Entries 1.713843e+07
ADC
QT Input Channel

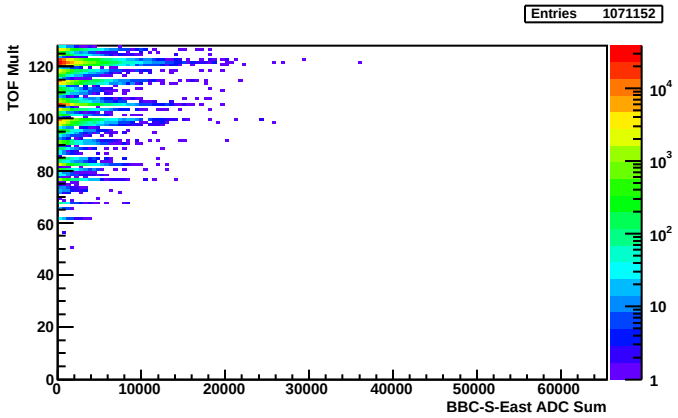

BBQ-VP003 (HI threshold)
Entries 1.713843e+07
TAC
QT Input Channel

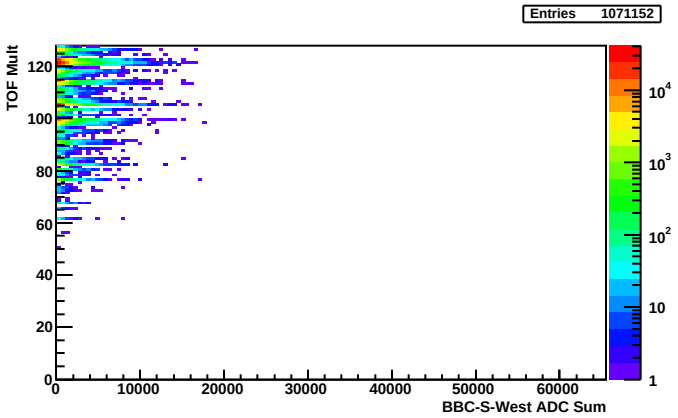

BBQ-VP004 (HI threshold)
Entries 1.713843e+07
ADC
QT Input Channel

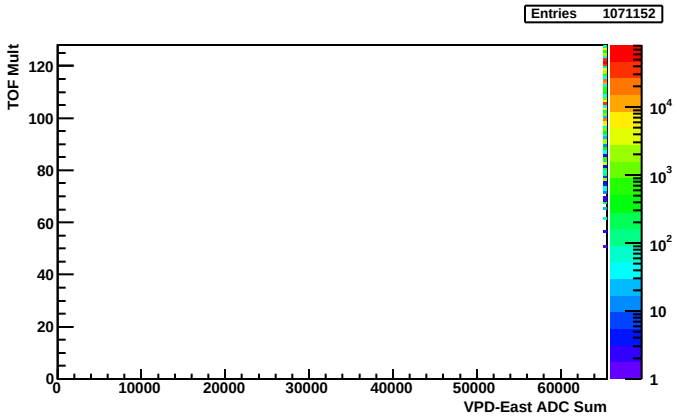

BBQ-VP004 (HI threshold)
Entries 1.713843e+07
TAC
QT Input Channel

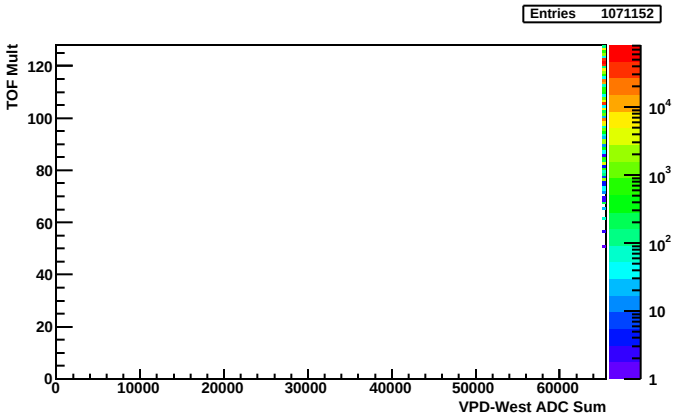

Entries 1071152
TOF Mult
BBC-L-East ADC Sum

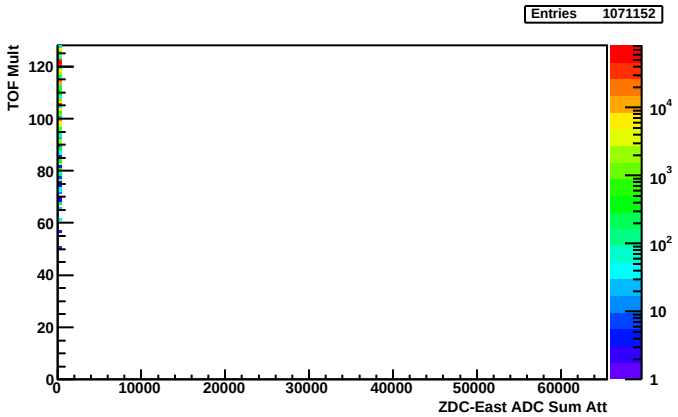

Entries 1071152
TOF Mult
BBC-L-West ADC Sum

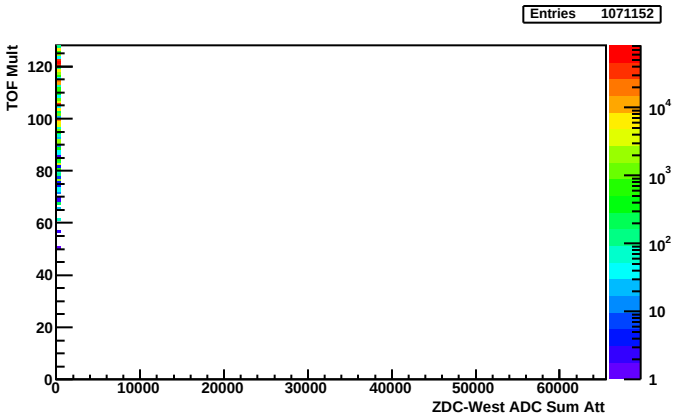

Entries 1071152
TOF Mult
BBC-S-East ADC Sum

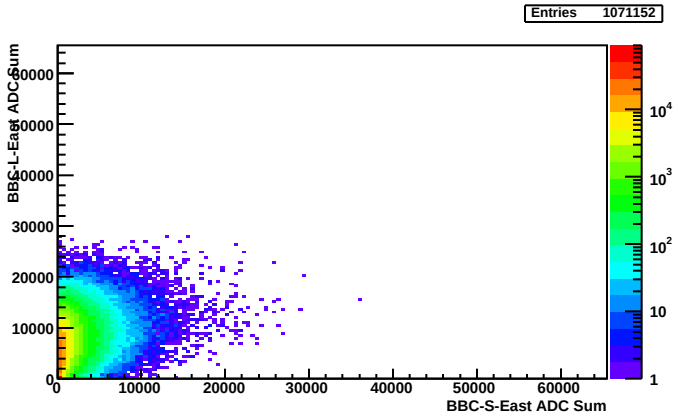

Entries 1071152
TOF Mult
BBC-S-West ADC Sum

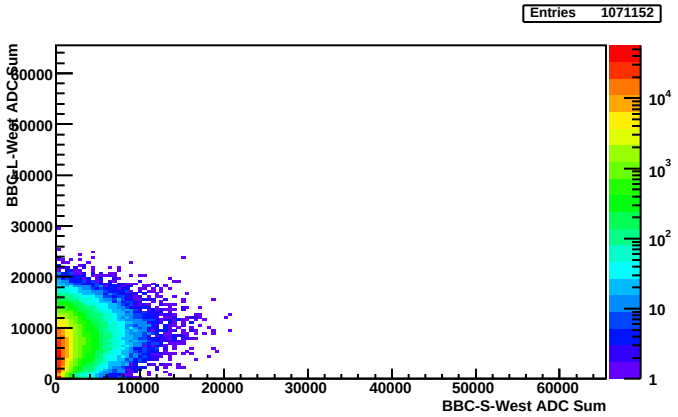

Entries 1071152
TOF Mult
VPD-East ADC Sum

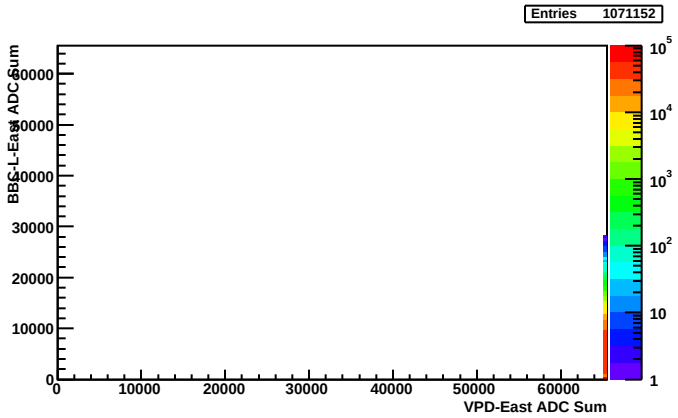

Entries 1071152
TOF Mult
VPD-West ADC Sum

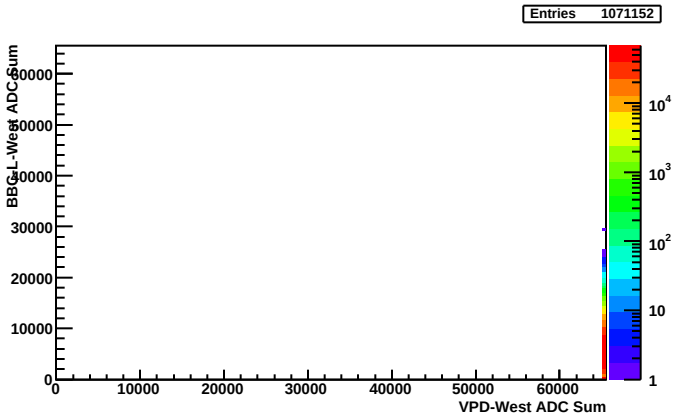

Entries 1071152
TOF Mult
ZDC-East ADC Sum Att

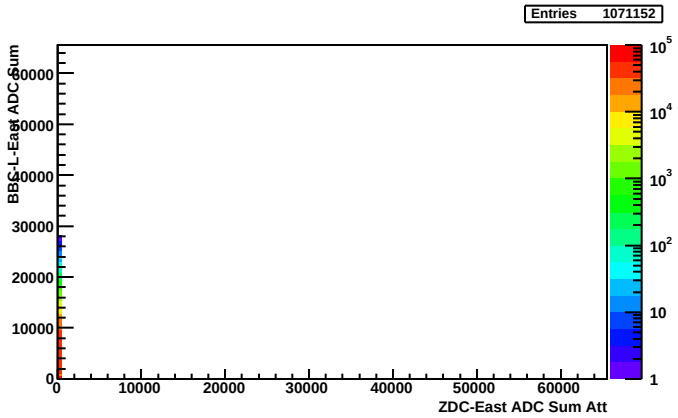

Entries 1071152
TOF Mult
ZDC-West ADC Sum Att

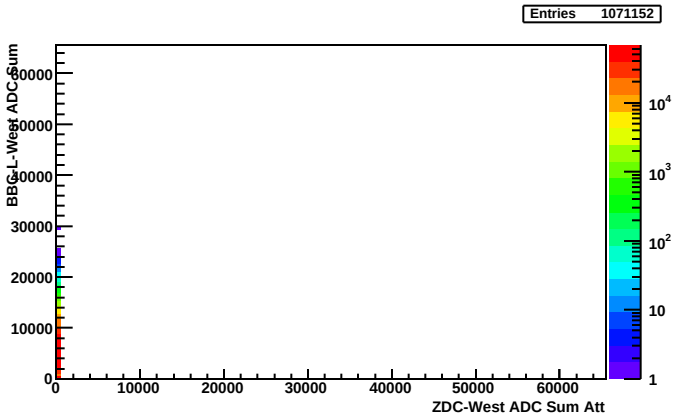

Entries 1071152
BBC-L-East ADC Sum
BBC-S-East ADC Sum

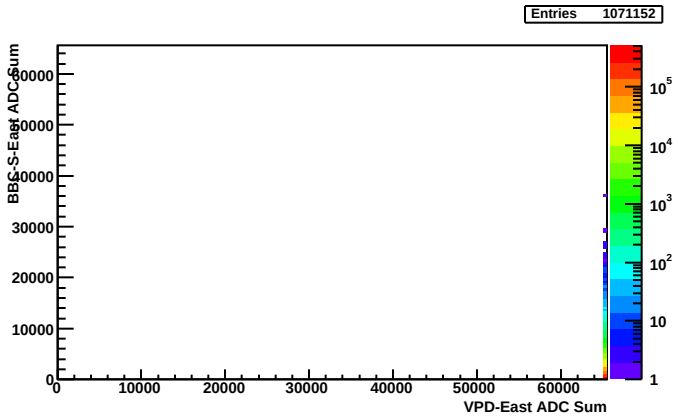

Entries 1071152
BBC-L-West ADC Sum
BBC-S-West ADC Sum

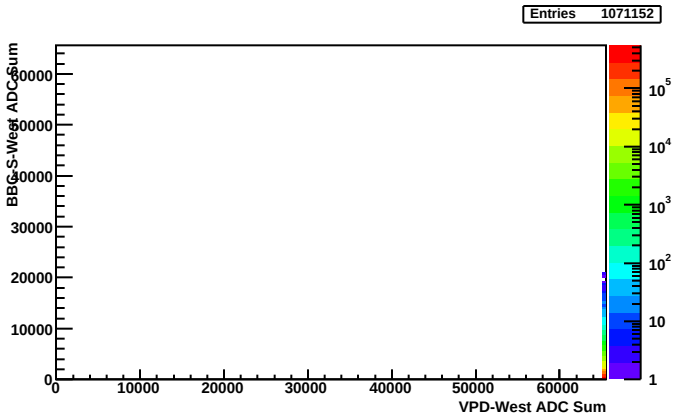

Entries 1071152
BBC-L-East ADC Sum
VPD-East ADC Sum

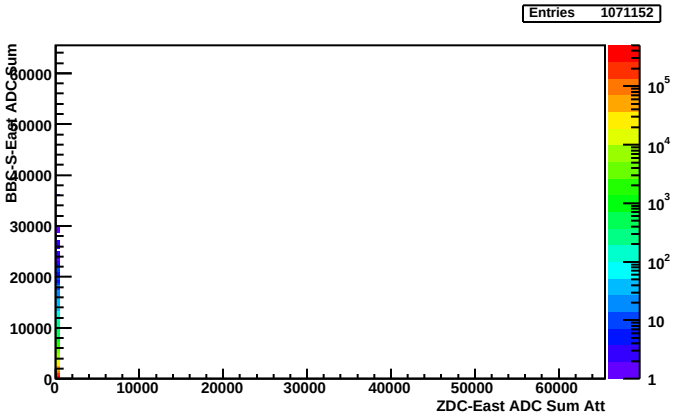

Entries 1071152
BBC-L-West ADC Sum
VPD-West ADC Sum

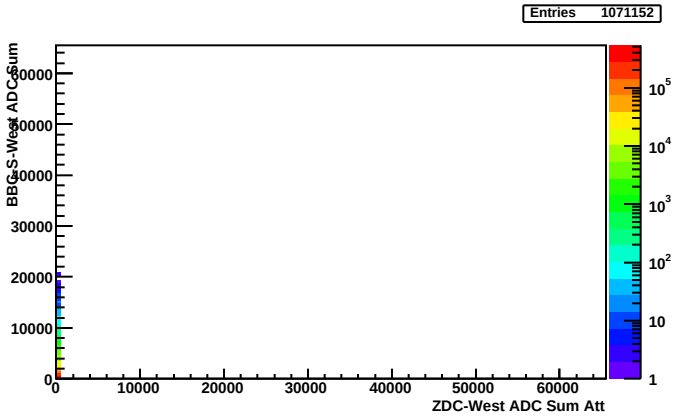

Entries 1071152
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

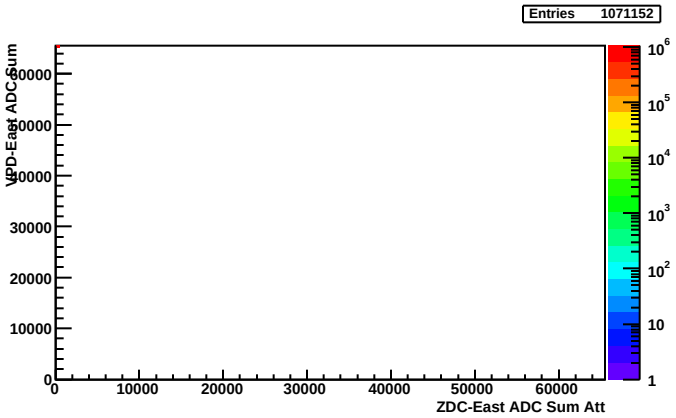

Entries 1071152
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

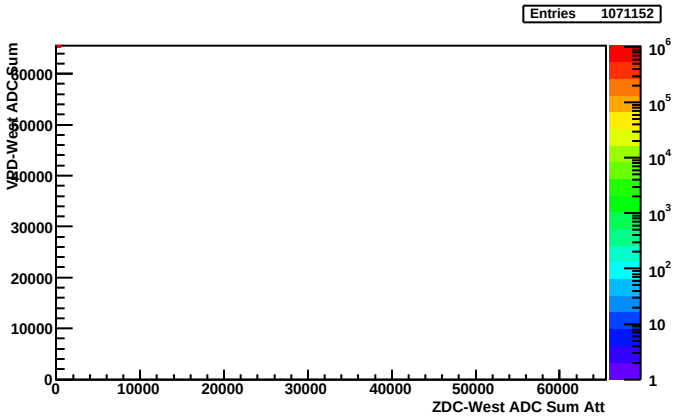

Entries 1071152
BBC-S-East ADC Sum
VPD-East ADC Sum

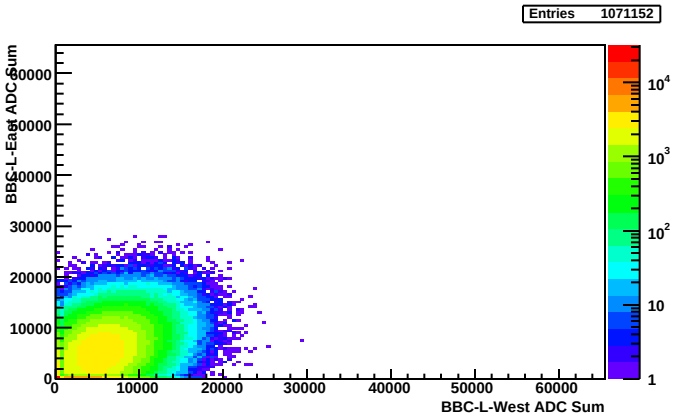

Entries 1071152
BBC-S-West ADC Sum
VPD-West ADC Sum

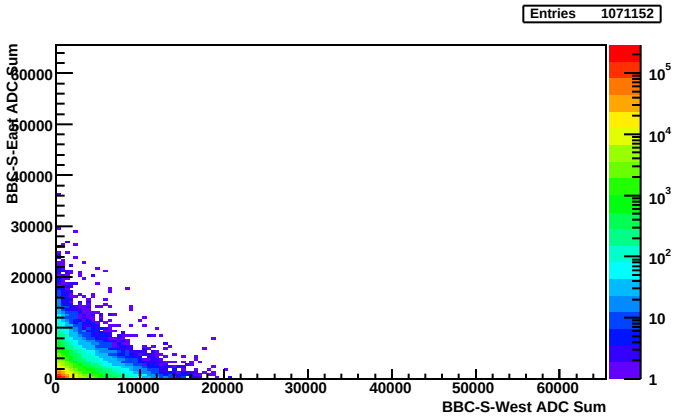

Entries 1071152
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

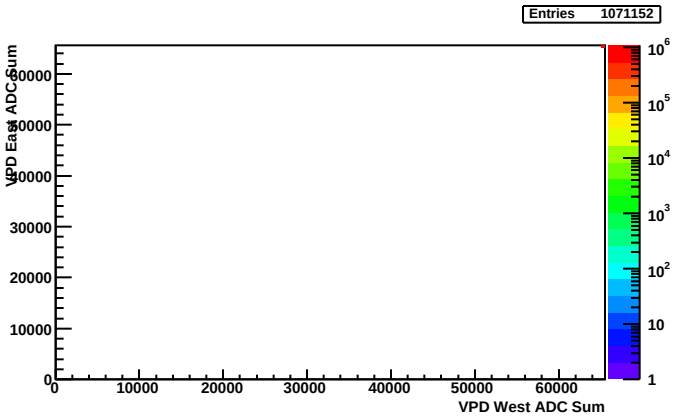

Entries 1071152
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

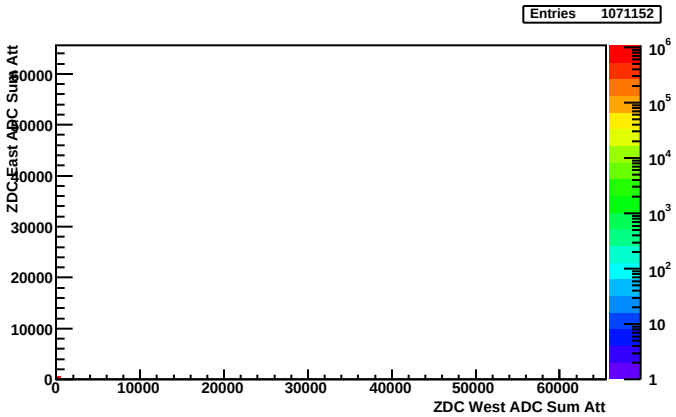

Entries 1071152
VPD-East ADC Sum
ZDC-East ADC Sum Att

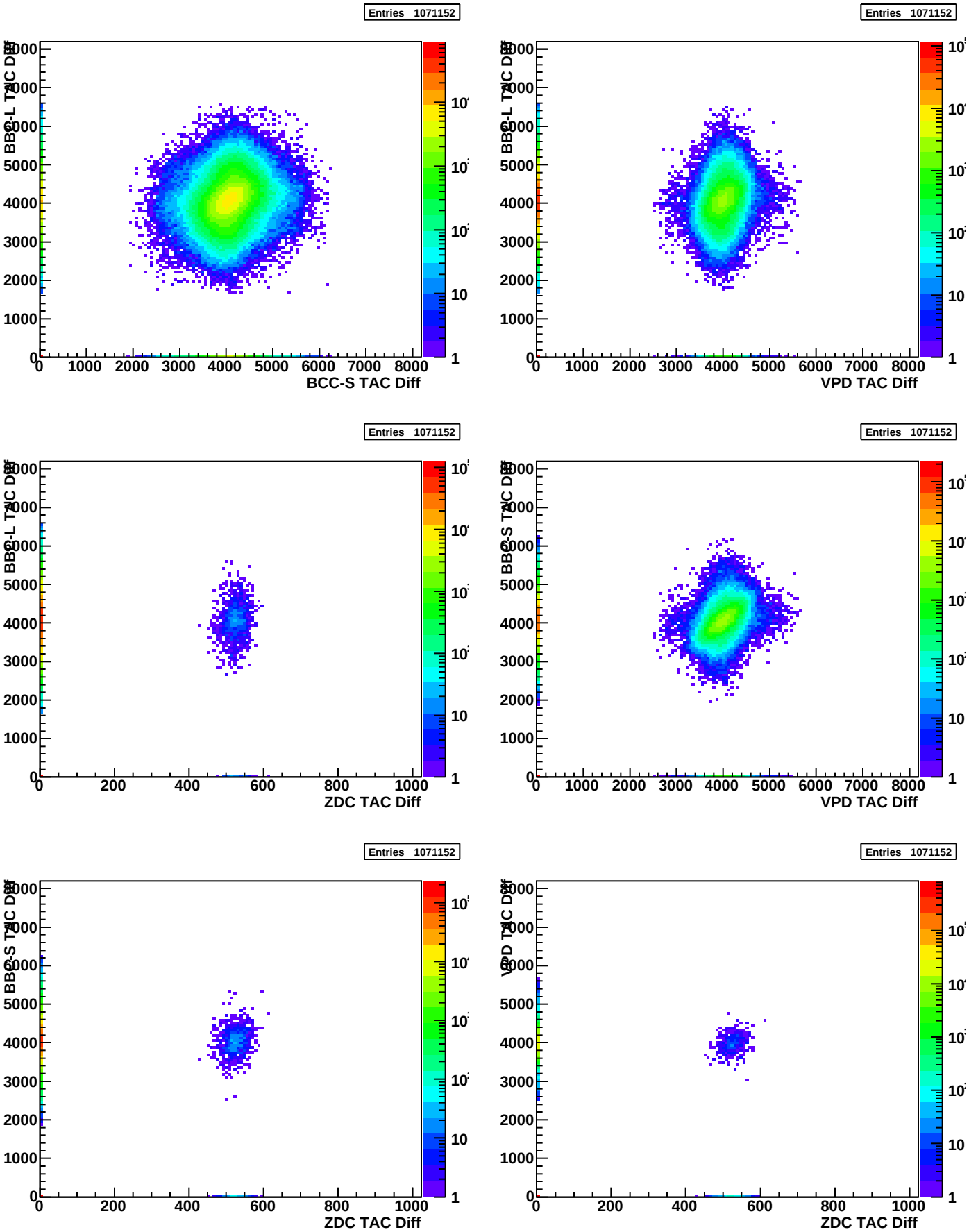

Entries 1071152
VPD-West ADC Sum
ZDC-West ADC Sum Att

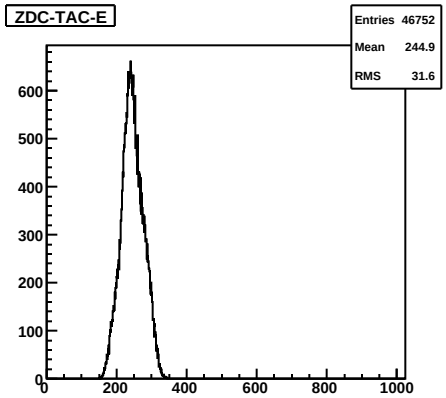

Entries 1071152
BBC-L-East ADC Sum
BBC-L-West ADC Sum

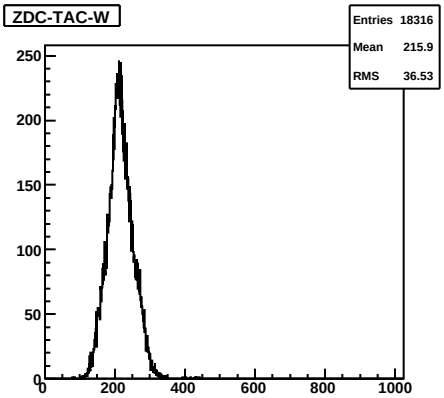

Entries 1071152
BBC-S-East ADC Sum
BBC-S-West ADC Sum

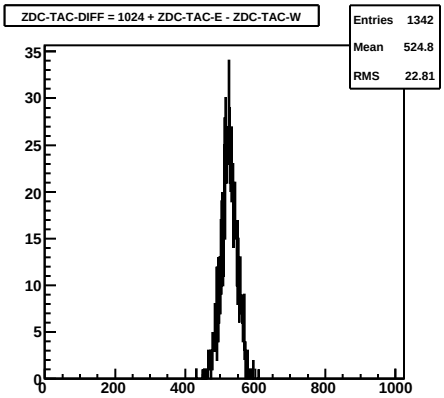

Entries 1071152
VPD East ADC Sum
VPD West ADC Sum

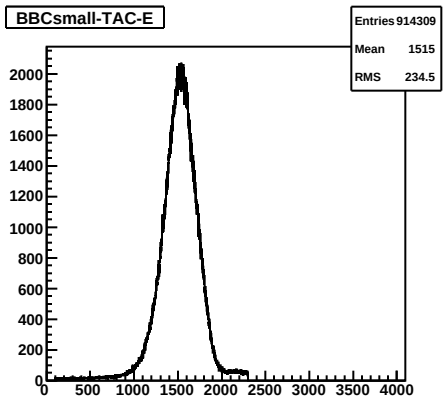

Entries 1071152
ZDC East ADC Sum Att
ZDC West ADC Sum Att

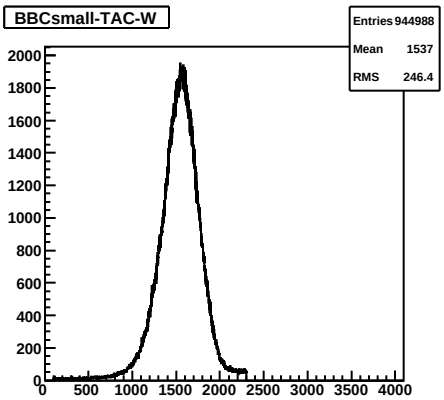

Entries 1071152
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1071152
BBC-L TAC Diff
VPD TAC Diff
Entries 1071152
BBC-L TAC Diff
ZDC TAC Diff
Entries 1071152
BBC-S TAC Diff
VPD TAC Diff
Entries 1071152
BBC-S TAC Diff
ZDC TAC Diff
Entries 1071152
VPD TAC Diff
ZDC TAC Diff

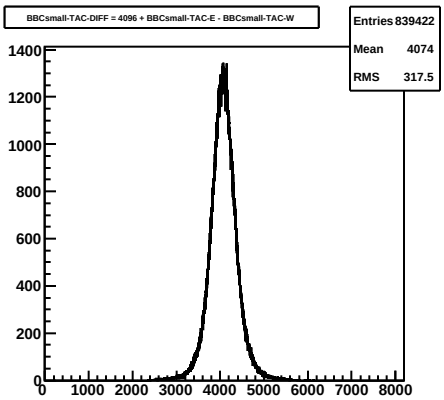

ZDC-TAC-E
Entries 46752
Mean 244.9
RMS 31.6

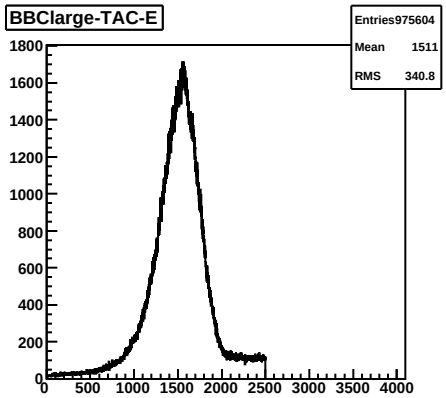

ZDC-TAC-W
Entries 18316
Mean 215.9
RMS 36.53

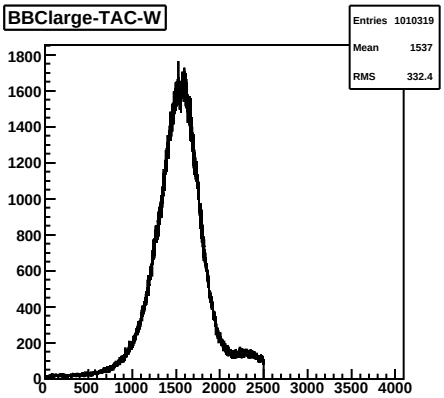

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1342
Mean 524.8
RMS 22.81

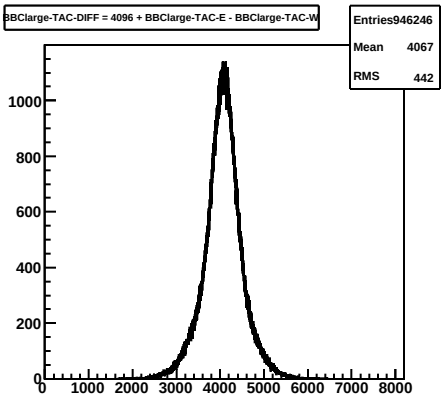

BBCsmall-TAC-E
Entries 914309
Mean 1515
RMS 234.5

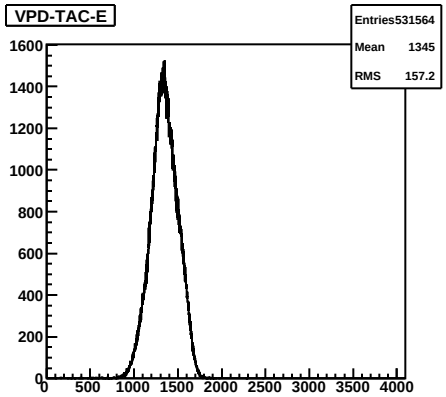

BBCsmall-TAC-W
Entries 944988
Mean 1537
RMS 246.4

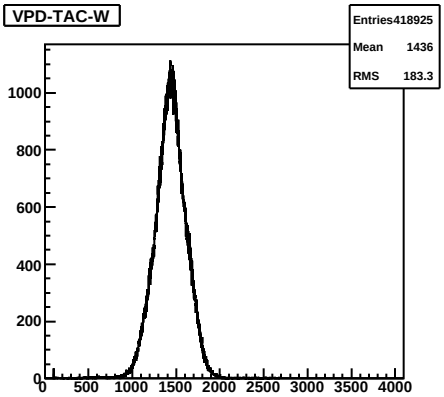

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 839422
Mean 4074
RMS 317.5

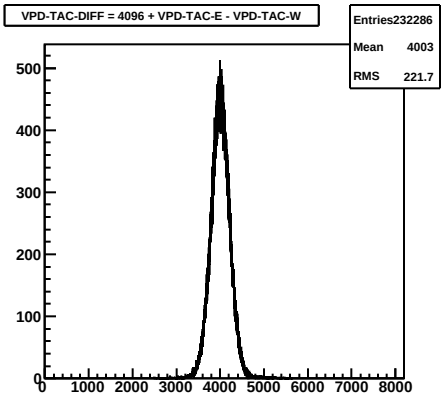

BBClarge-TAC-E
Entries 975604
Mean 1511
RMS 340.8

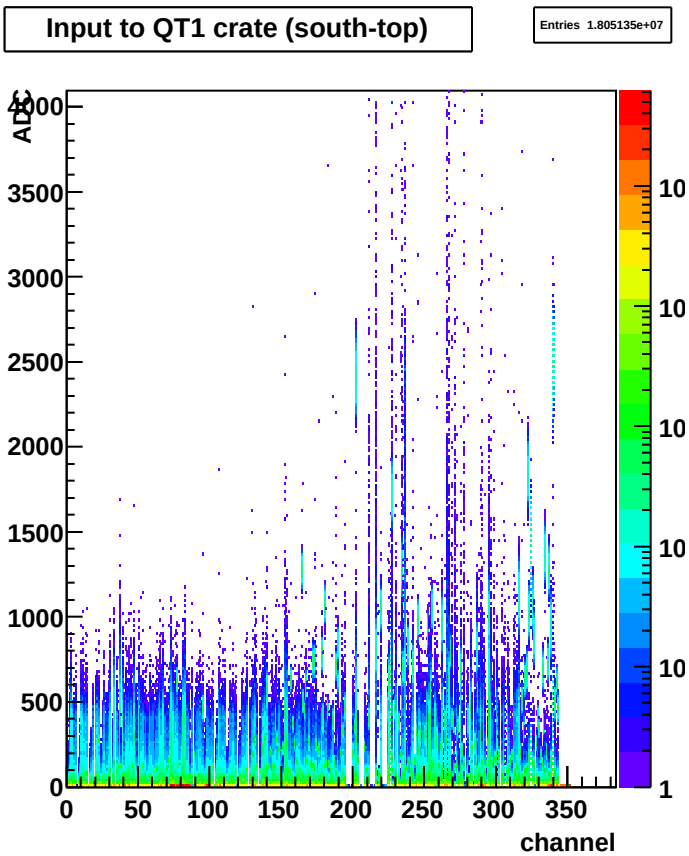

BBClarge-TAC-W
Entries 1010319
Mean 1537
RMS 332.4

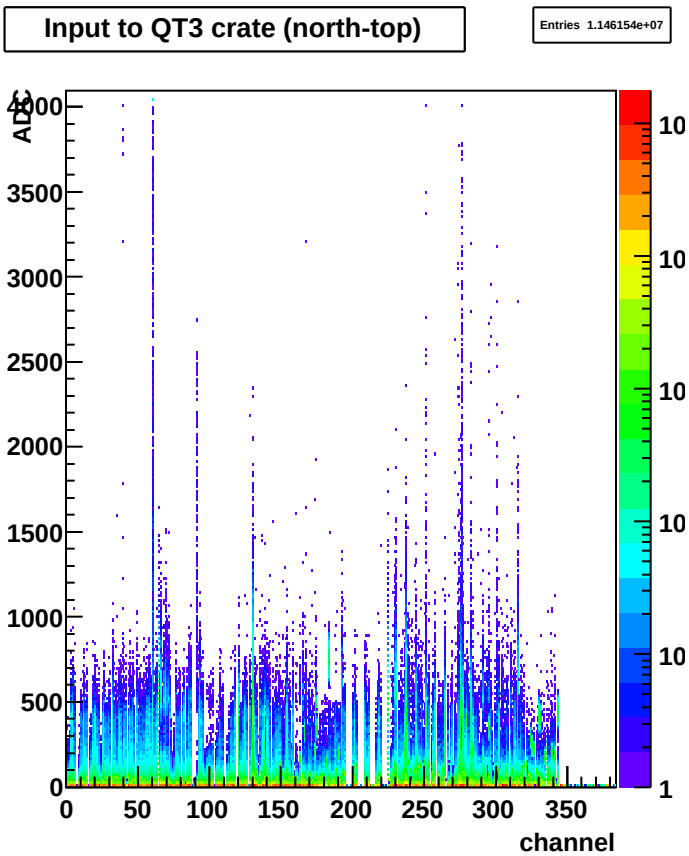

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 946246
Mean 4067
RMS 442

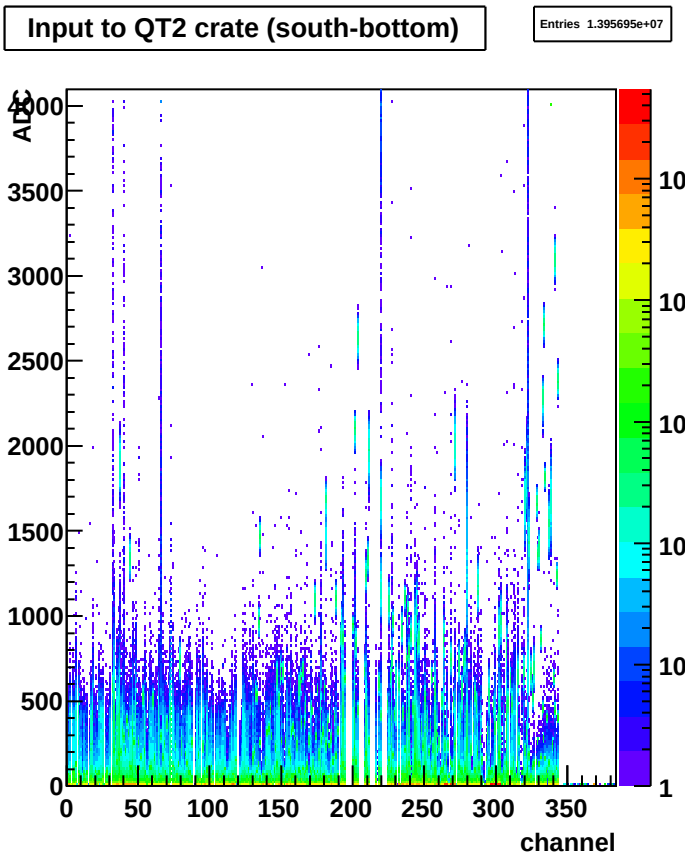

VPD-TAC-E
Entries 531564
Mean 1345
RMS 157.2

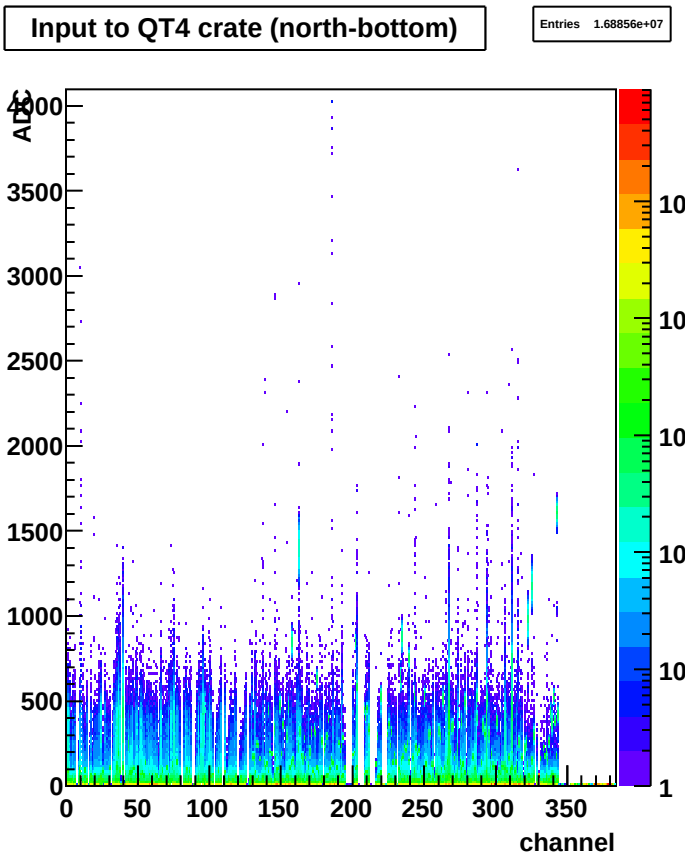

VPD-TAC-W
Entries 418925
Mean 1436
RMS 183.3

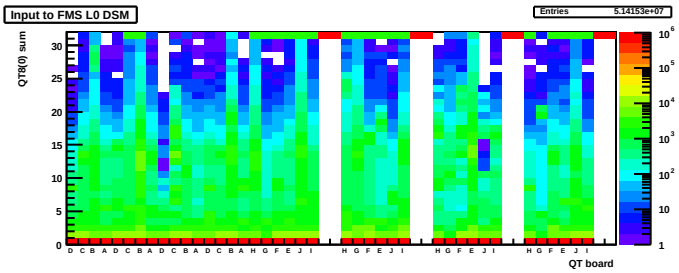

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 232286
Mean 4003
RMS 221.7

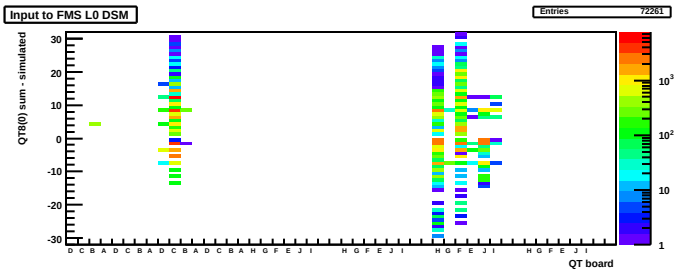

Input to QT1 crate (south-top)
Entries 1.805135e+07
ADC
channel

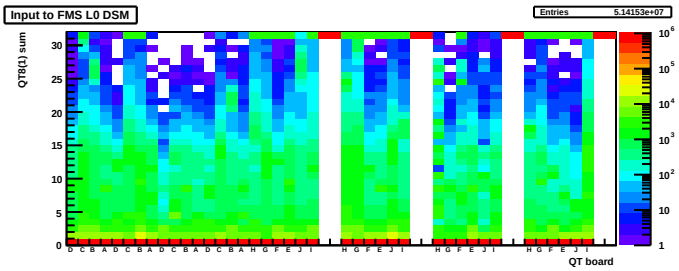

Input to QT3 crate (north-top)
Entries 1.146154e+07
ADC
channel

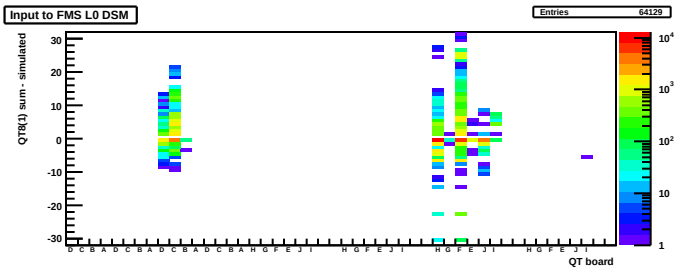

Input to QT2 crate (south-bottom)
Entries 1.395695e+07
ADC
channel

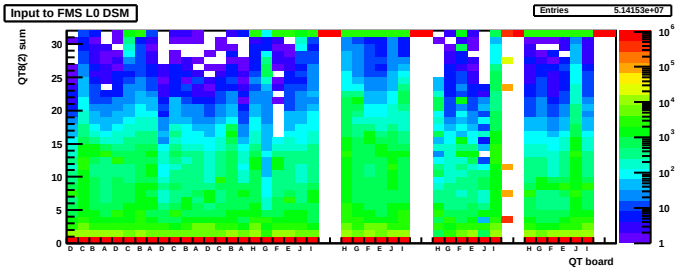

Input to QT4 crate (north-bottom)
Entries 1.68856e+07
ADC
channel

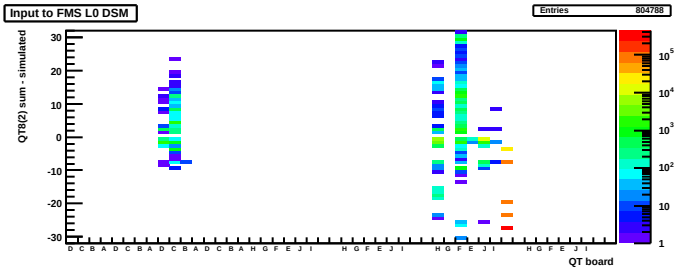

Input to FMS L0 DSM
Entries 5.14153e+07
QT8(0) sum
QT board

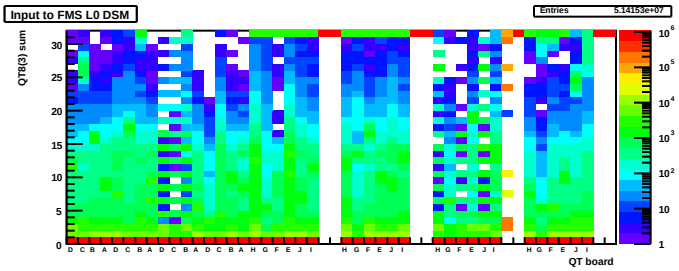

Input to FMS L0 DSM
Entries 72261
QT8(0) sum - simulated
QT board

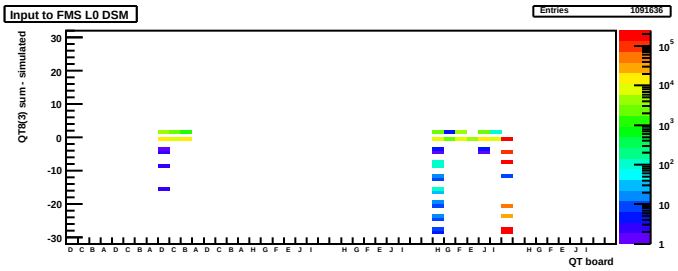

Input to FMS L0 DSM
Entries 5.14153e+07
QT8(1) sum
QT board

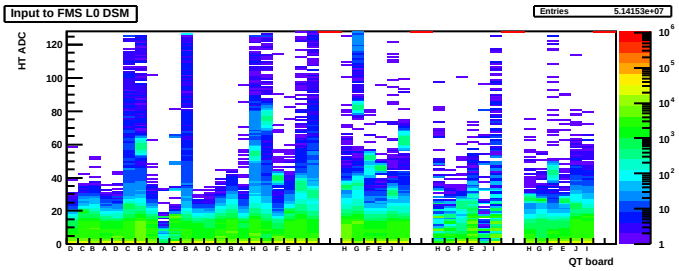

Input to FMS L0 DSM
Entries 64129
QT8(1) sum - simulated
QT board

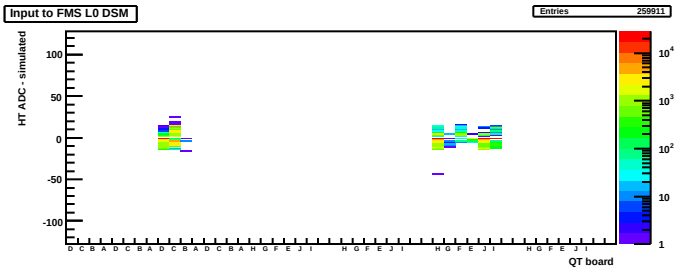

Input to FMS L0 DSM
Entries 5.14153e+07
QT8(2) sum
QT board

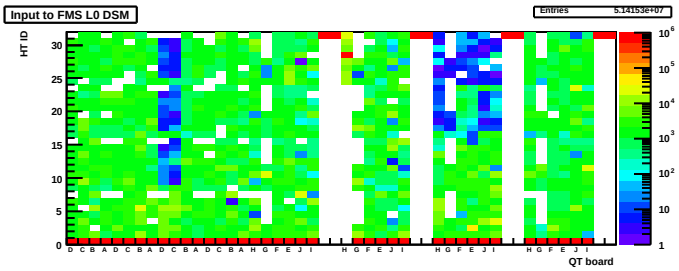

Input to FMS L0 DSM
Entries 804788
QT8(2) sum - simulated
QT board

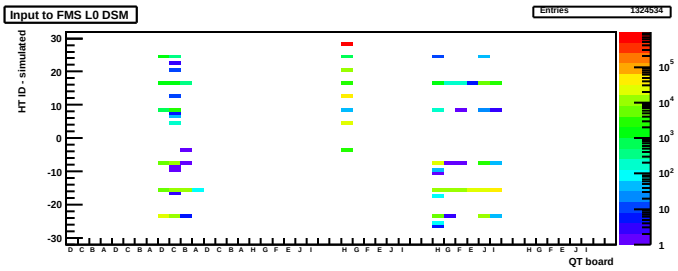

Input to FMS L0 DSM
Entries 5.14153e+07
QT8(3) sum
QT board

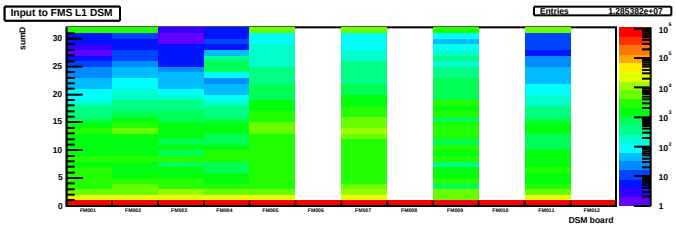

Input to FMS L0 DSM
Entries 1091636
QT8(3) sum - simulated
QT board

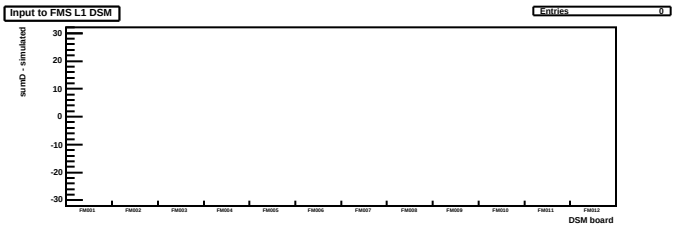

Input to FMS L0 DSM
Entries 5.14153e+07
HT ADC
QT board

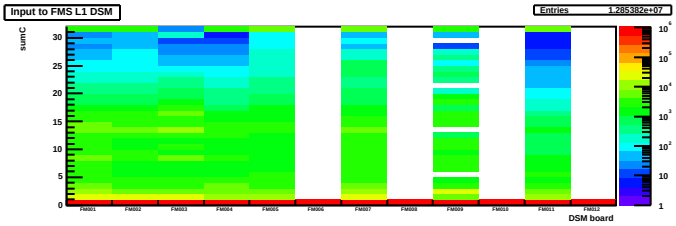

Input to FMS L0 DSM
Entries 259911
HT ADC - simulated
QT board

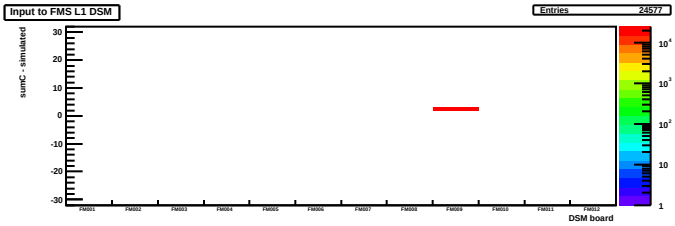

Input to FMS L0 DSM
Entries 5.14153e+07
HT ID
QT board

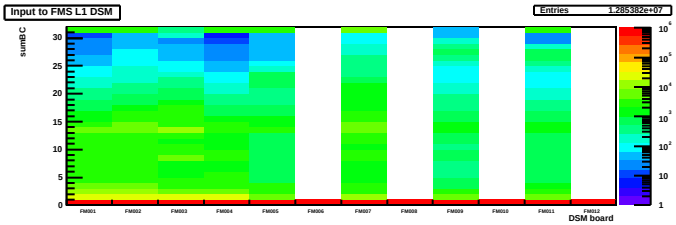

Input to FMS L0 DSM
Entries 1324534
HT ID - simulated
QT board

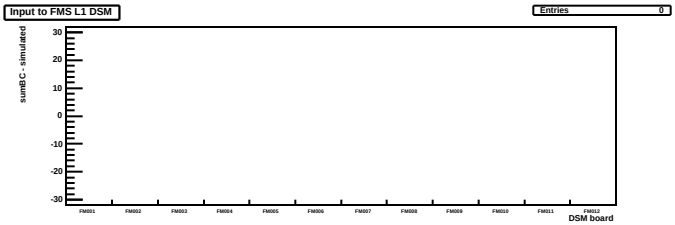

Input to FMS L1 DSM
Entries 1.285382e+07
sumD
DSM board

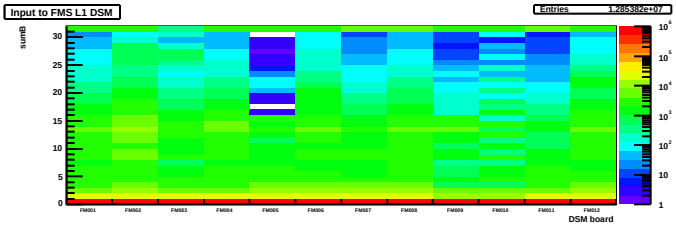

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

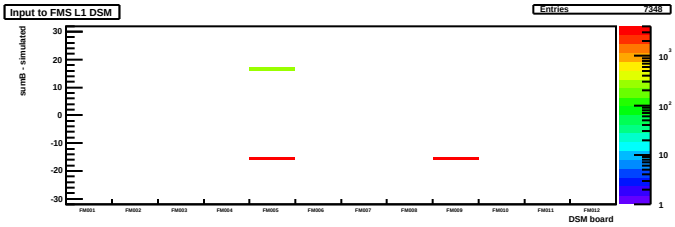

Input to FMS L1 DSM
Entries 1.285382e+07
sumC
DSM board

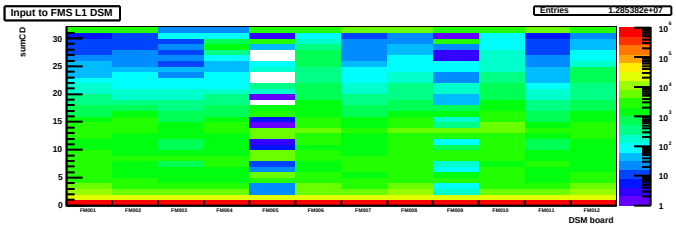

Input to FMS L1 DSM
Entries 24577
sumC - simulated
DSM board

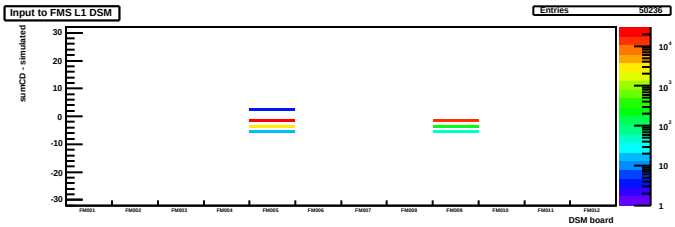

Input to FMS L1 DSM
Entries 1.285382e+07
sumBC
DSM board

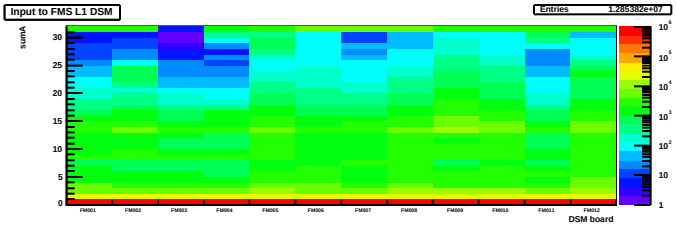

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

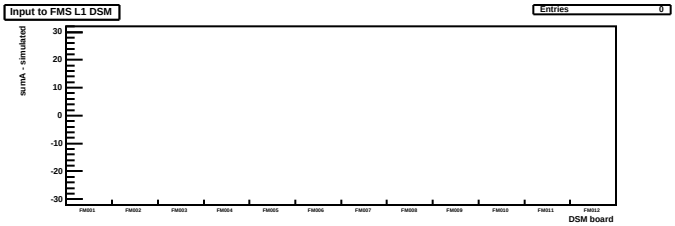

Input to FMS L1 DSM
Entries 1.285382e+07
sumB
DSM board

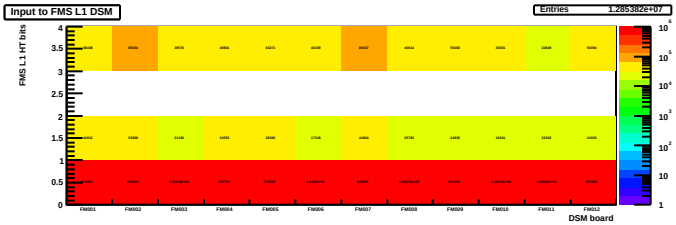

Input to FMS L1 DSM
Entries 7348
sumB - simulated
DSM board

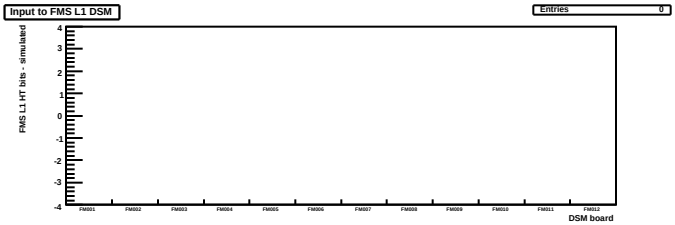

Input to FMS L1 DSM
Entries 1.285382e+07
sumCD
DSM board

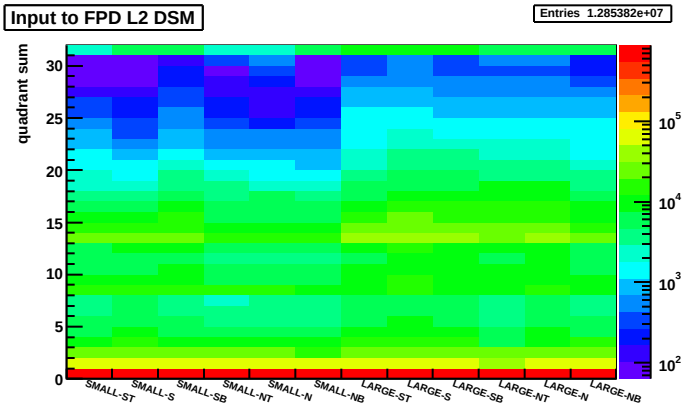

Input to FMS L1 DSM
Entries 50236
sumCD - simulated
DSM board

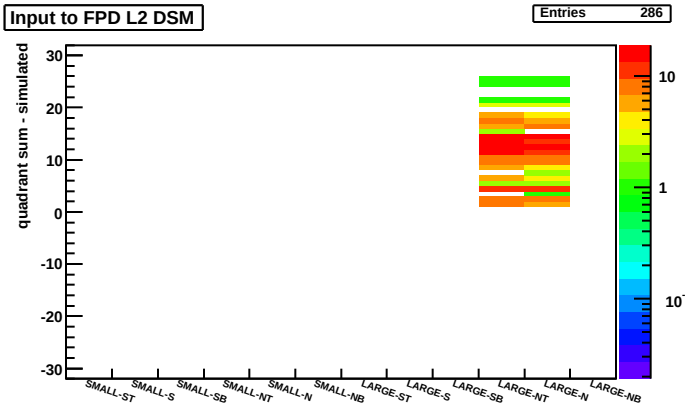

Input to FMS L1 DSM
Entries 1.285382e+07
sumA
DSM board

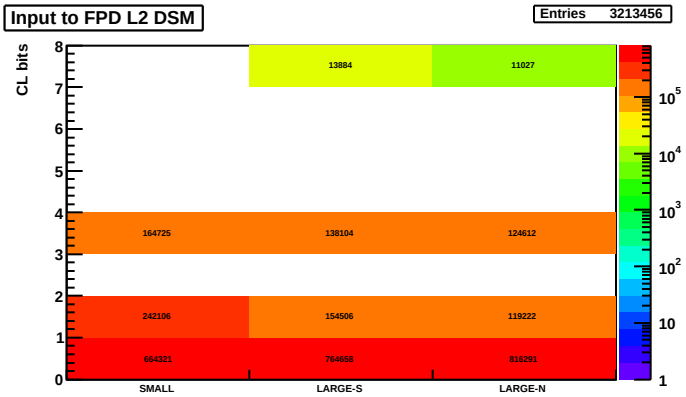

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

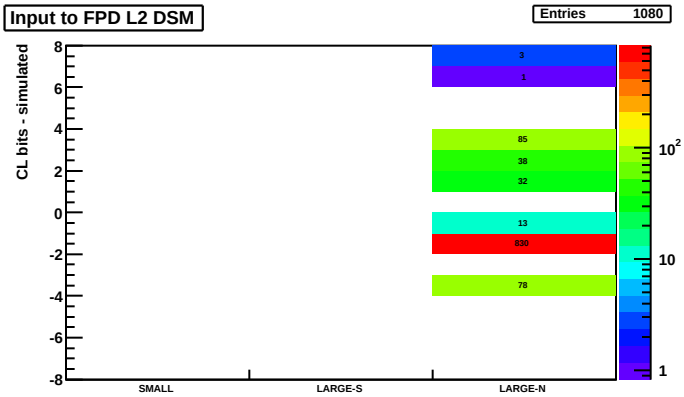

Input to FMS L1 DSM
Entries 1.285382e+07
FMS L1 HT bits
DSM board

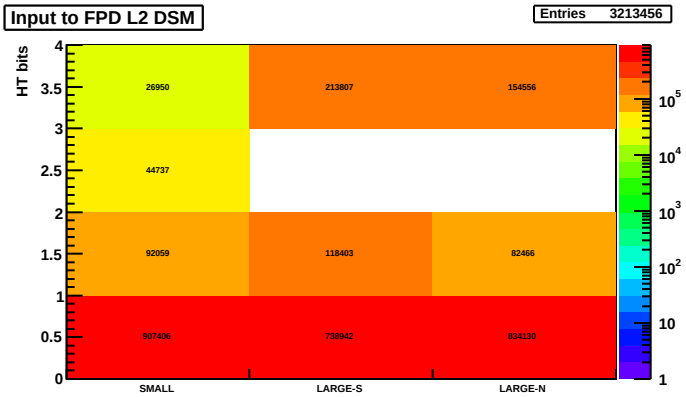

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

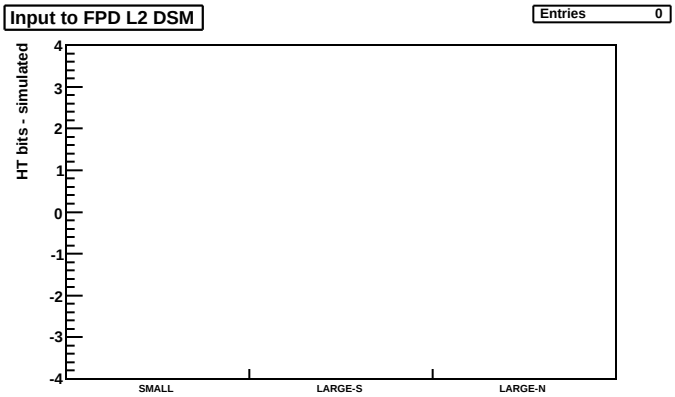

Input to FPD L2 DSM
Entries 1.285382e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

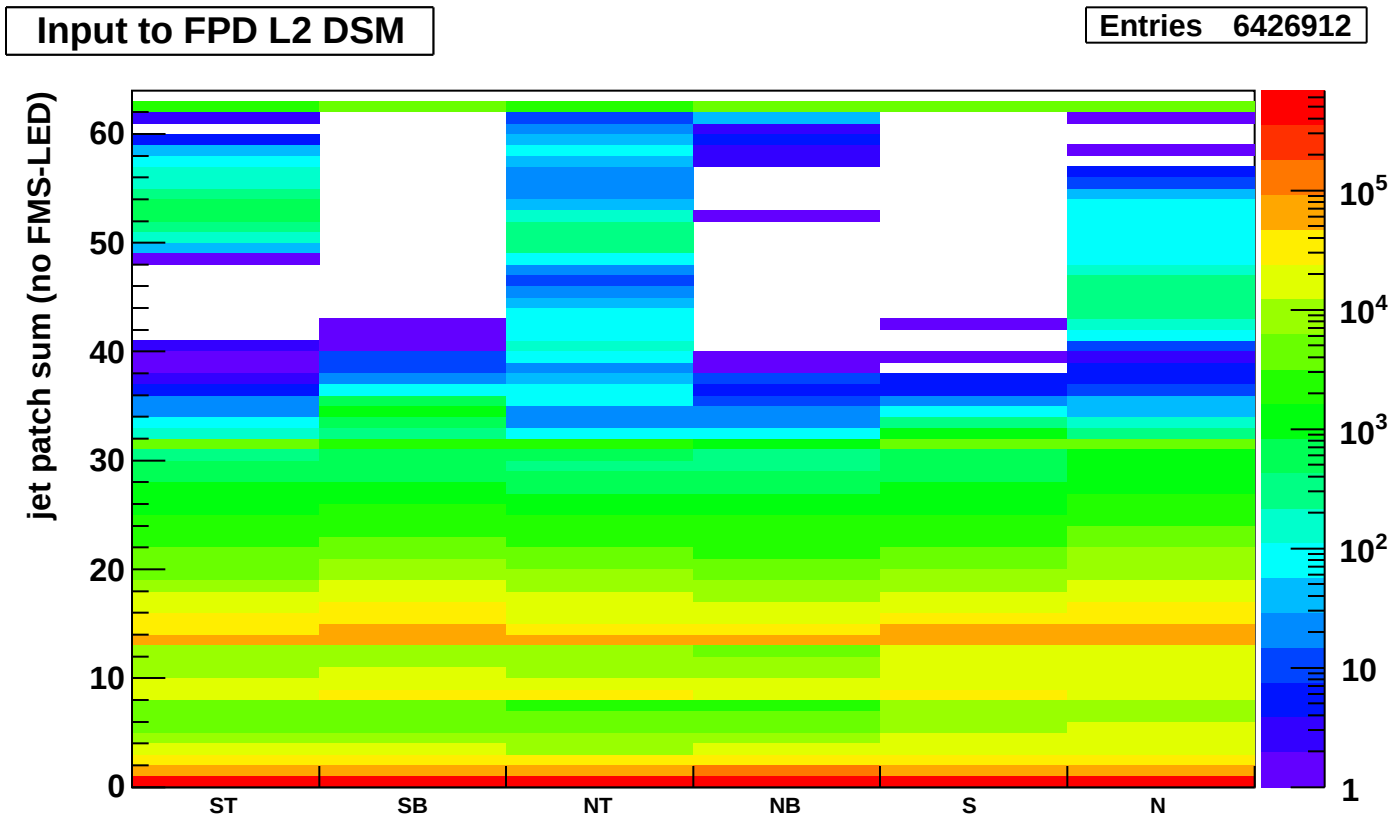

Input to FPD L2 DSM
Entries 286
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

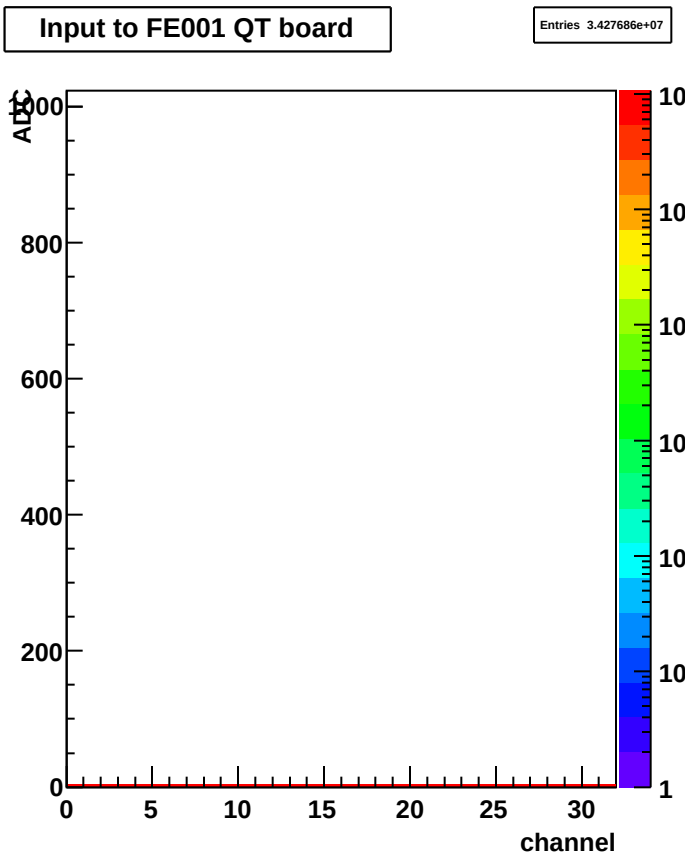

Input to FPD L2 DSM
Entries 3213456
CL bits
13884
11027
164725
138104
124612
242106
154506
119222
664321
764658
816291
SMALL
LARGE-S
LARGE-N

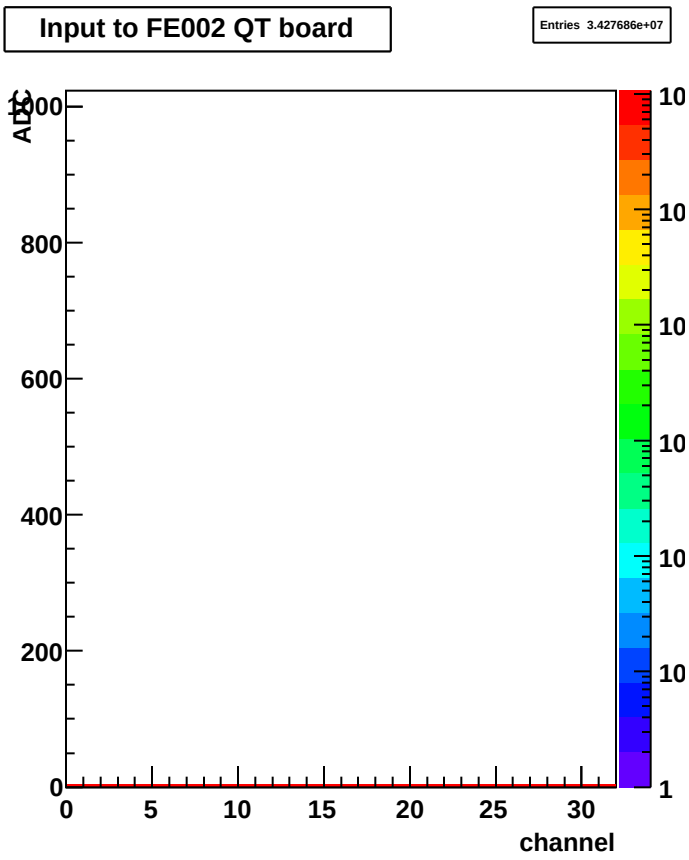

Input to FPD L2 DSM
Entries 1080
CL bits - simulated
3
1
85
38
32
13
930
78
SMALL
LARGE-S
LARGE-N

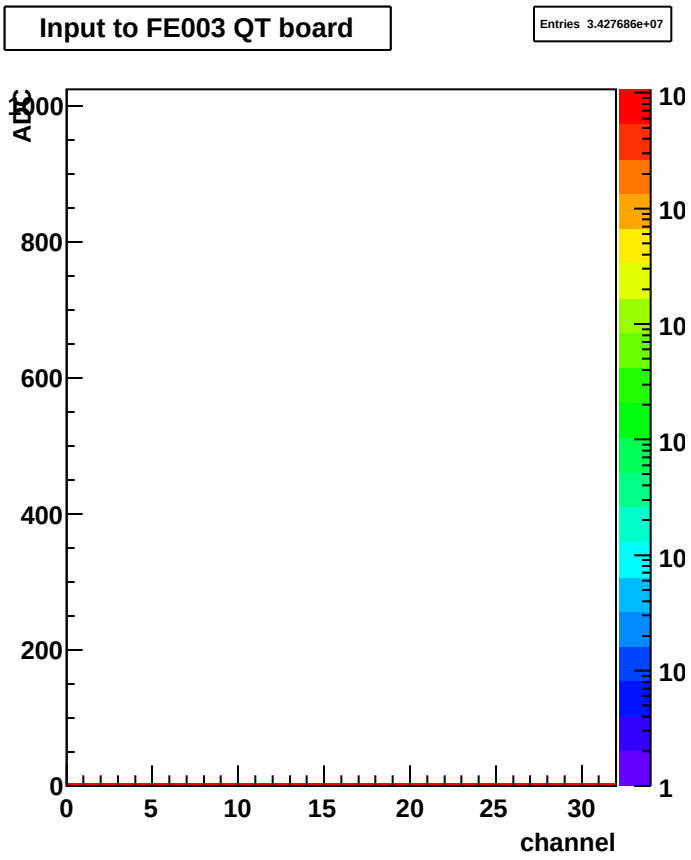

Input to FPD L2 DSM
Entries 3213456
HT bits
26950
213807
154556
44737
92059
118403
82466
907406
738942
834130
SMALL
LARGE-S
LARGE-N

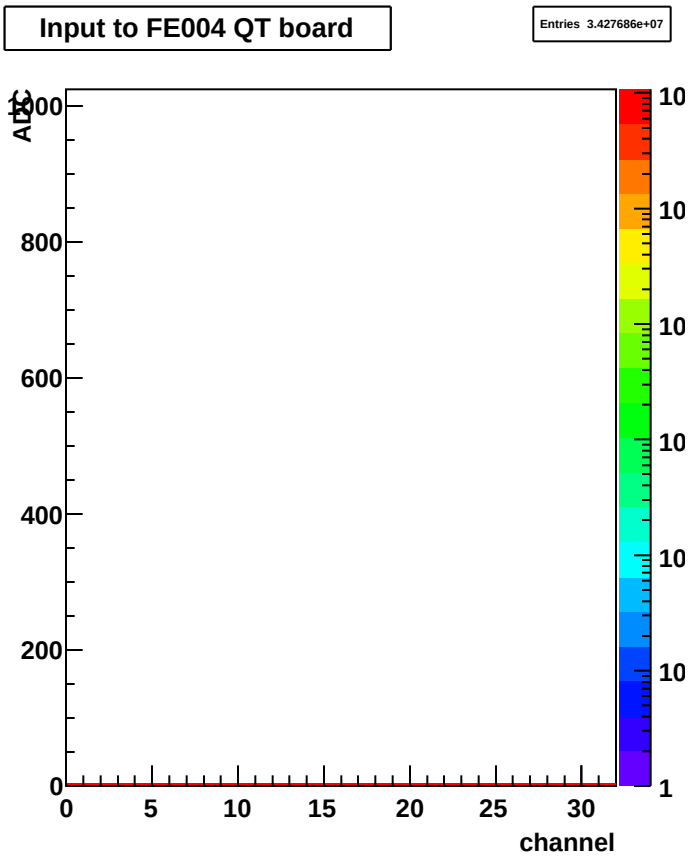

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

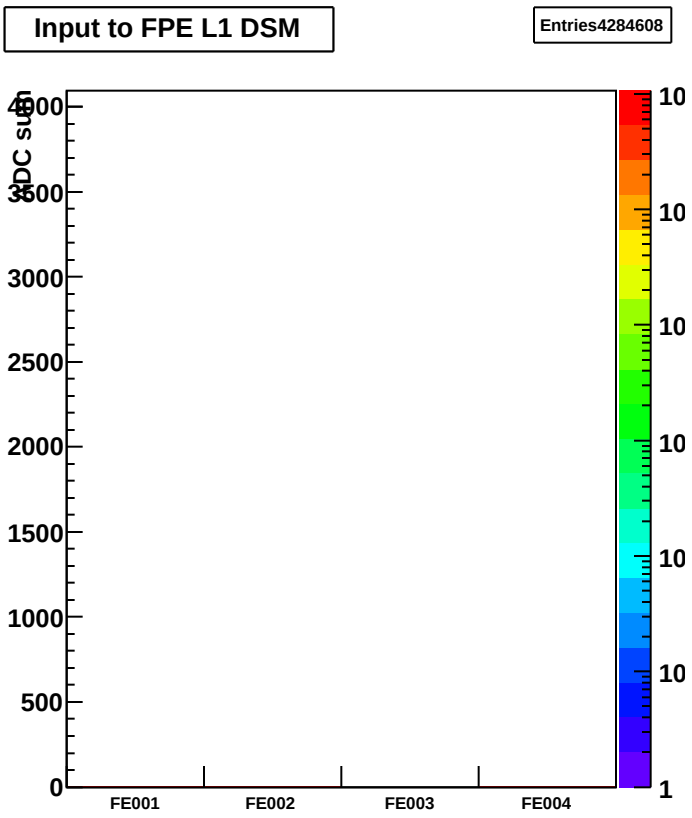

Input to FPD L2 DSM
Entries 6426912
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

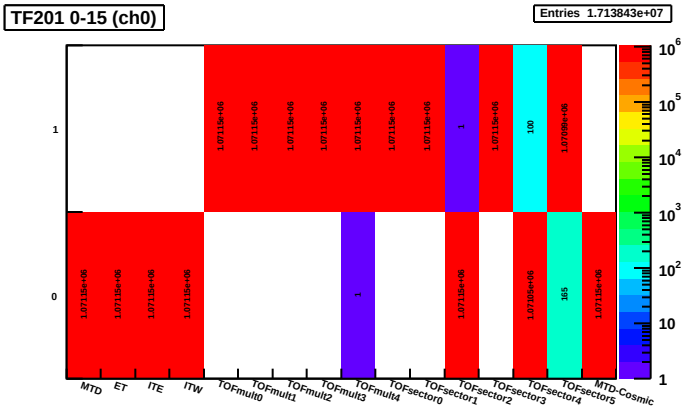

Input to FE001 QT board
Entries 3.427686e+07
ADC
channel

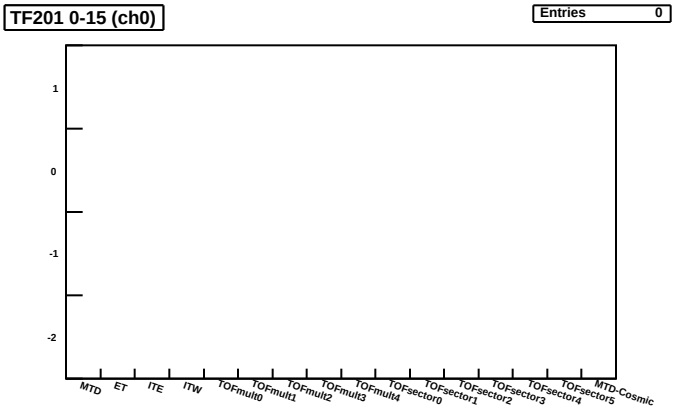

Input to FE002 QT board
Entries 3.427686e+07
ADC
channel

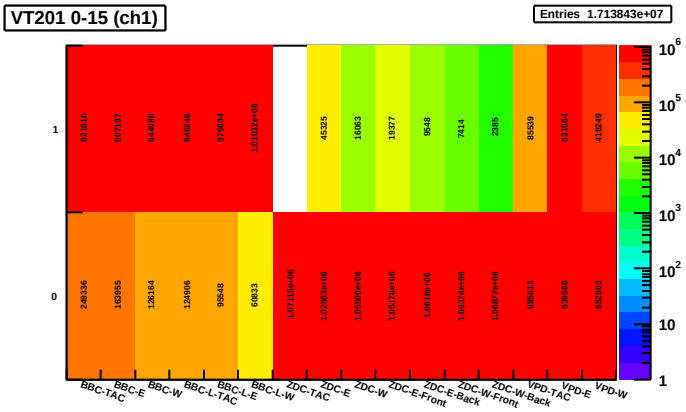

Input to FE003 QT board
Entries 3.427686e+07
ADC
channel

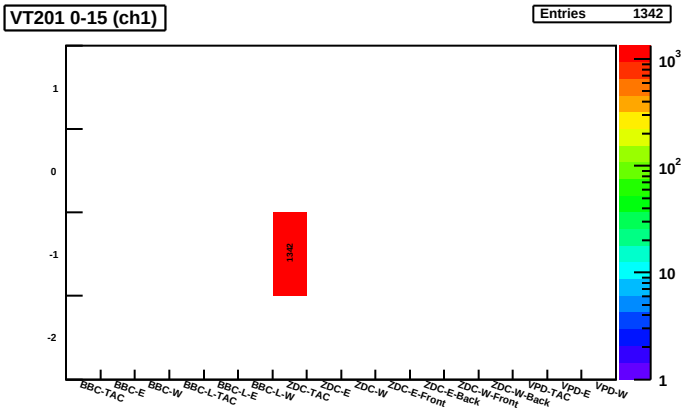

Input to FE004 QT board
Entries 3.427686e+07
ADC
channel


Input to FPE L1 DSM
Entries4284608
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 1.713843e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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


VT201 0-15 (ch1)
Entries 1.713843e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W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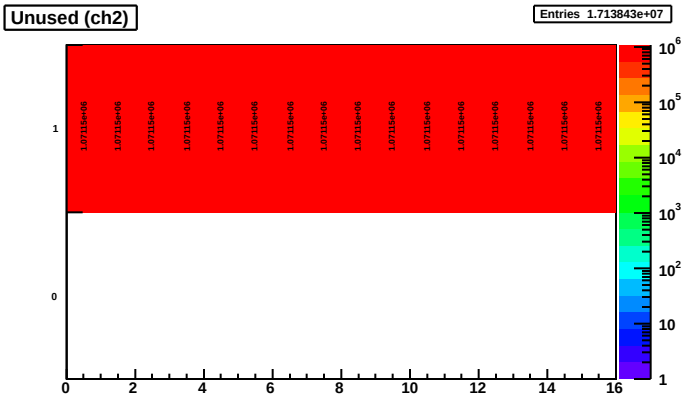
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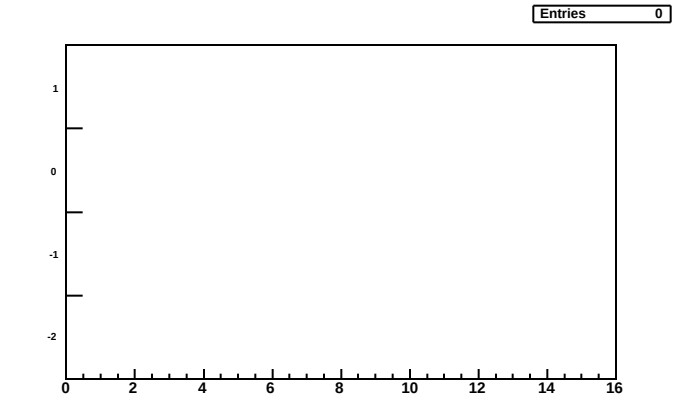
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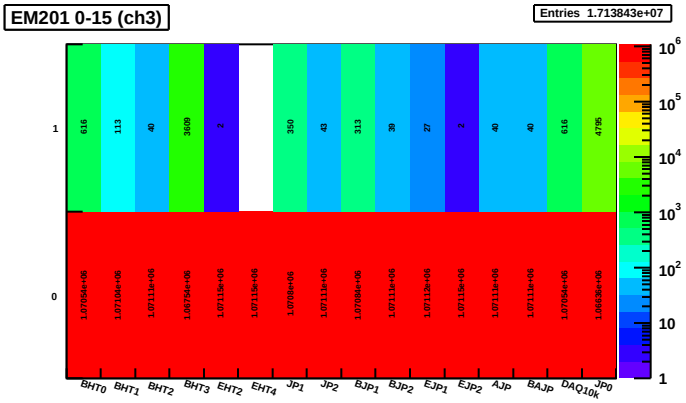
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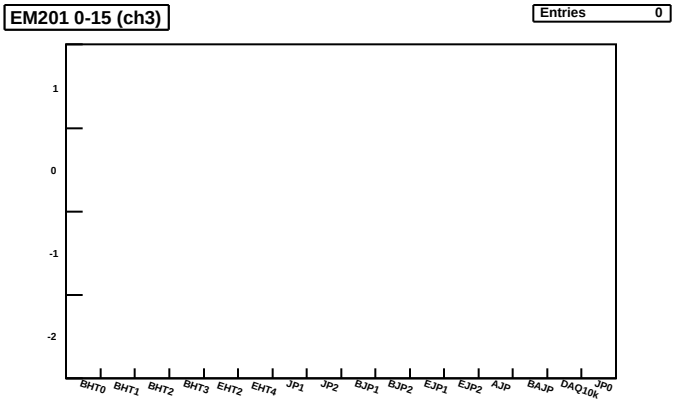
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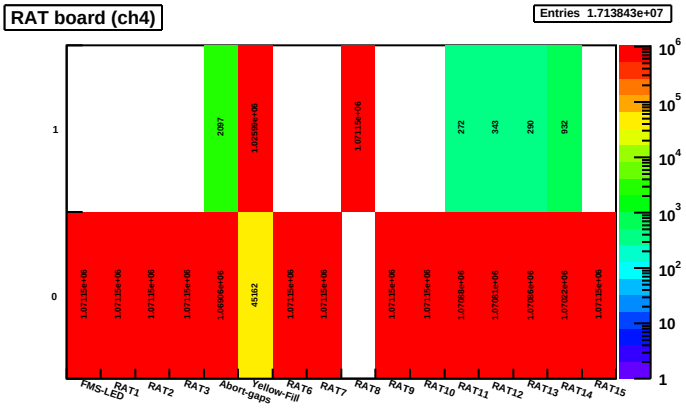
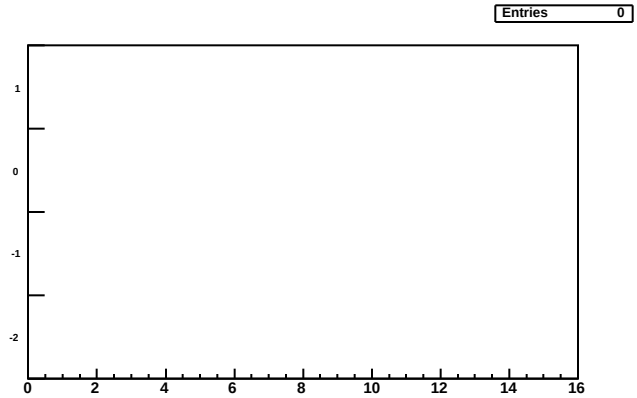
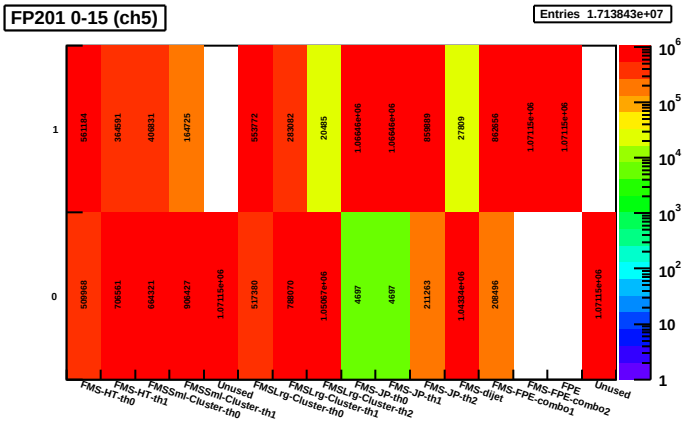
RAT board (ch4)





FP201 0-15 (ch5)



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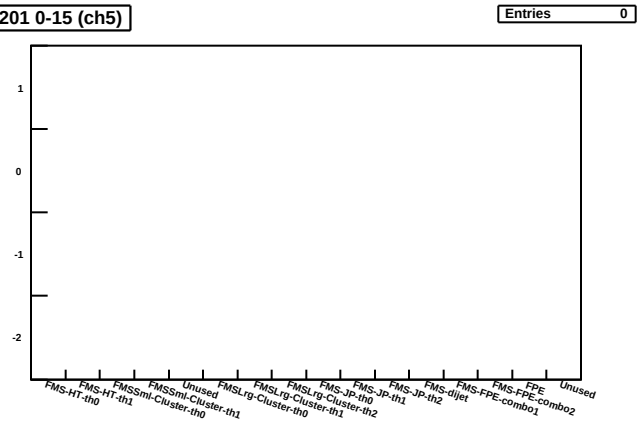
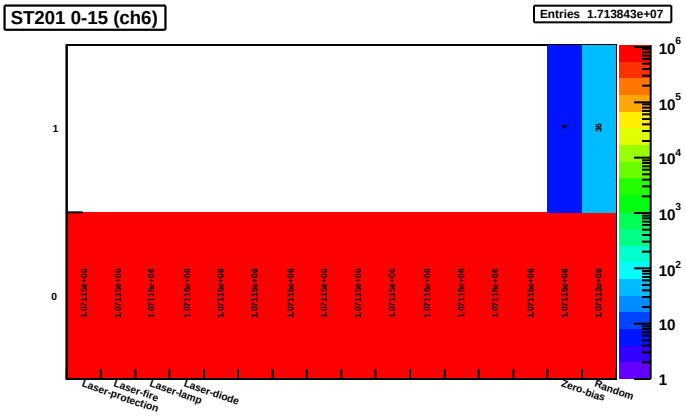
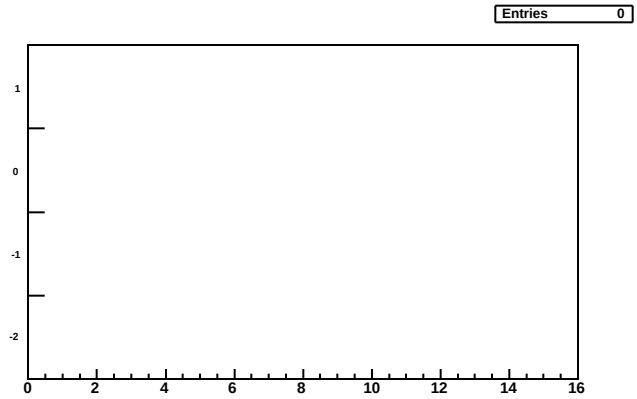
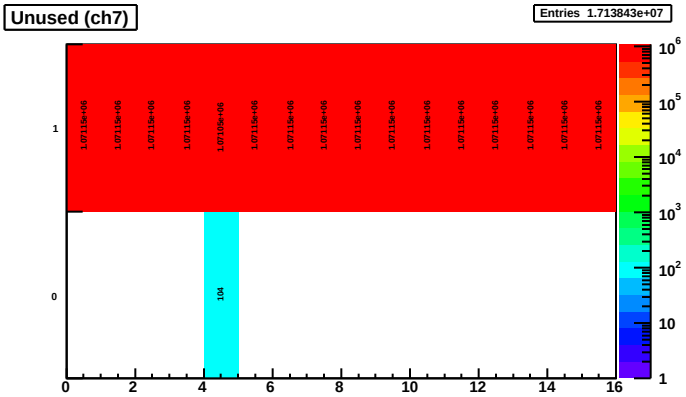
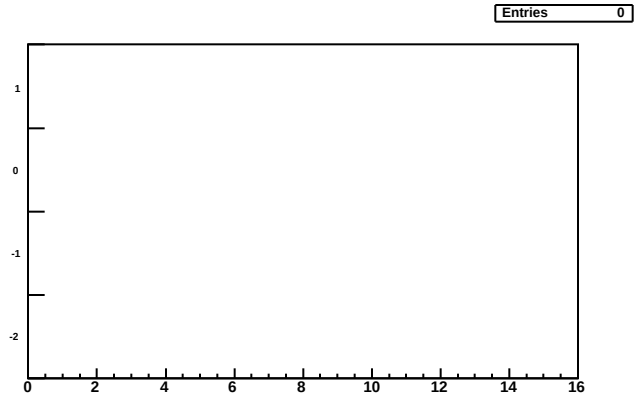


ST201 0-15 (ch6)





Unused (ch7)