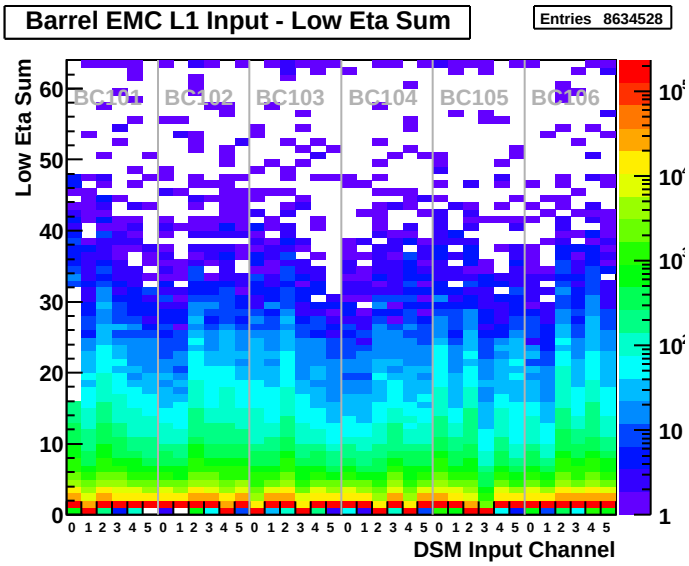
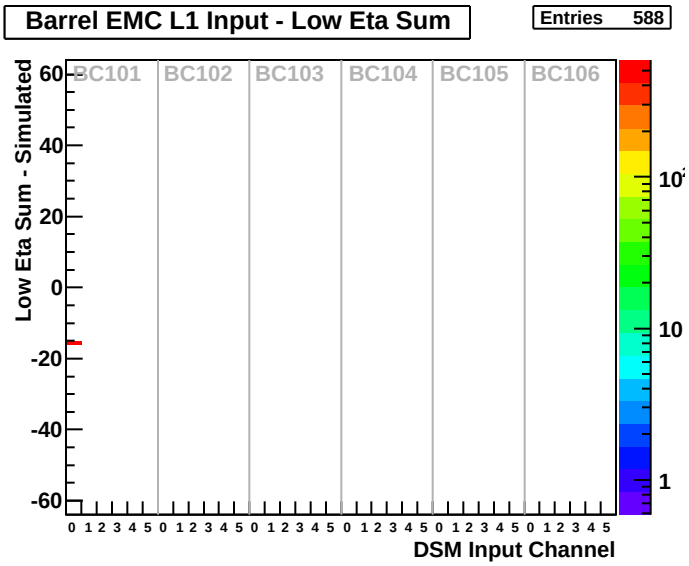
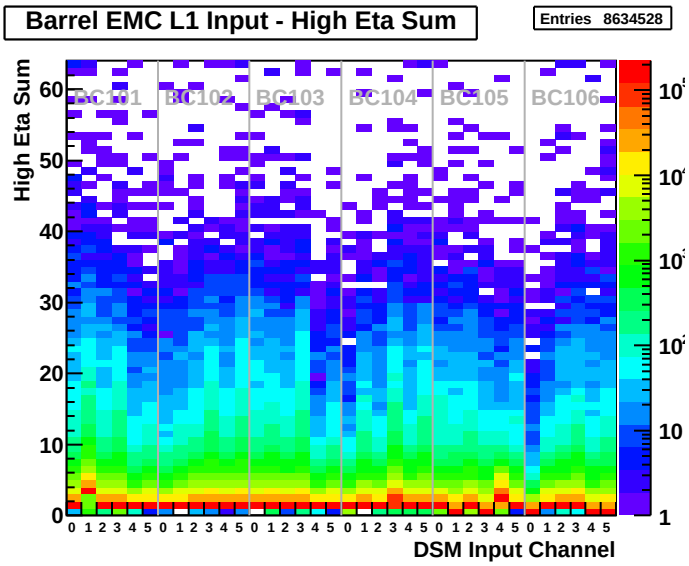
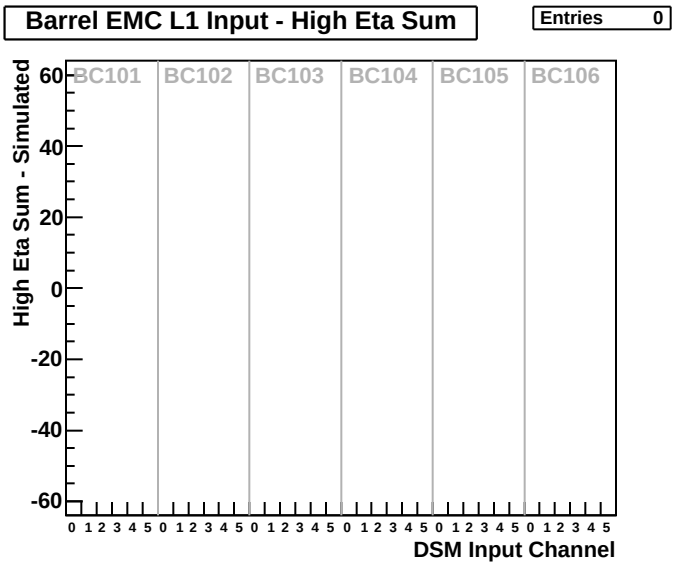
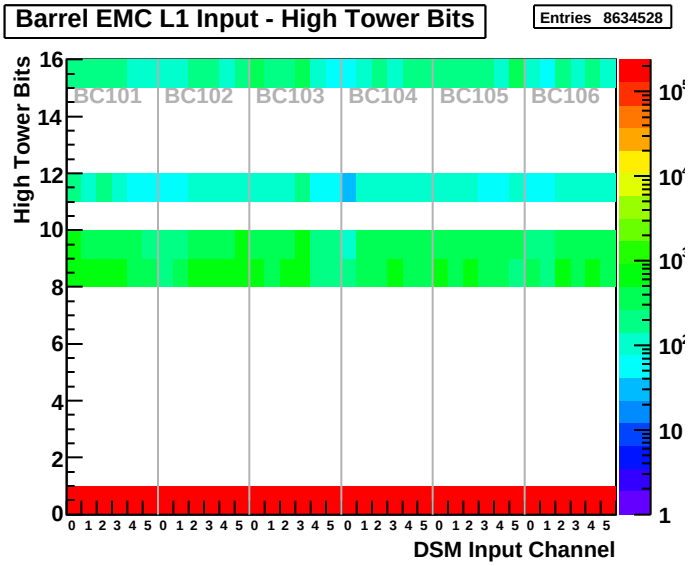
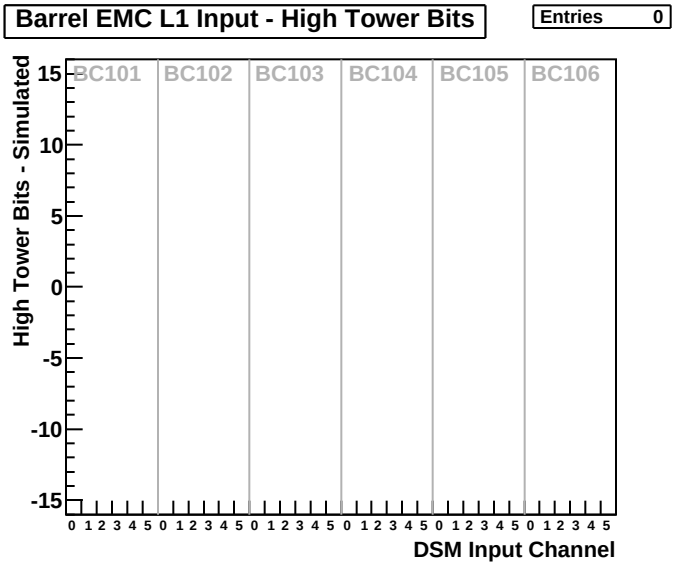

Barrel EMC L1 Input - Low Eta Sum
Entries 8634528
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

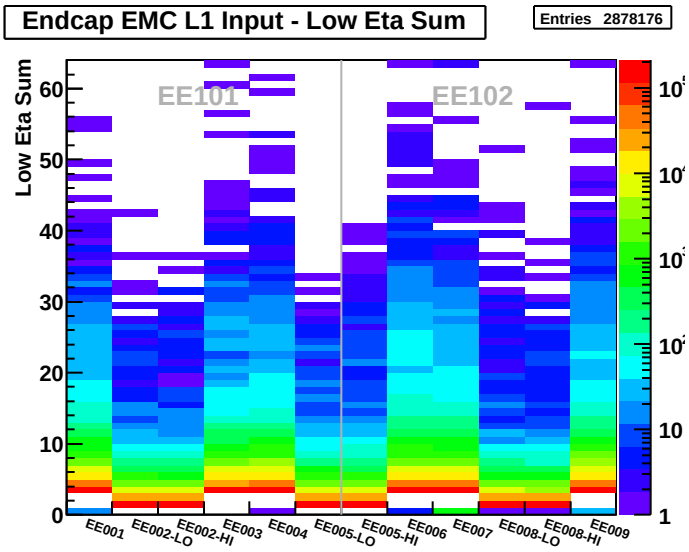

Barrel EMC L1 Input - Low Eta Sum
Entries 588
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

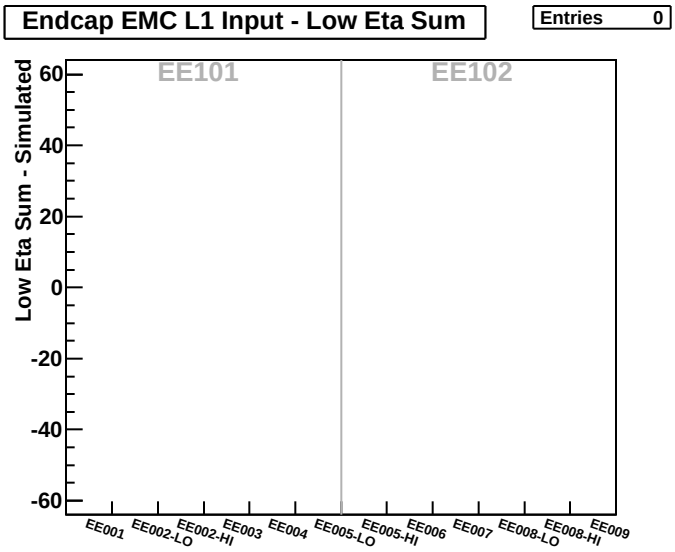

Barrel EMC L1 Input - High Eta Sum
Entries 8634528
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

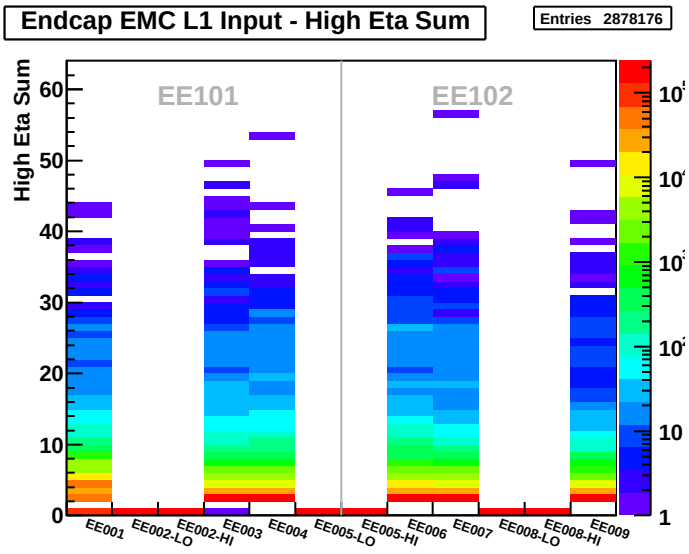

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

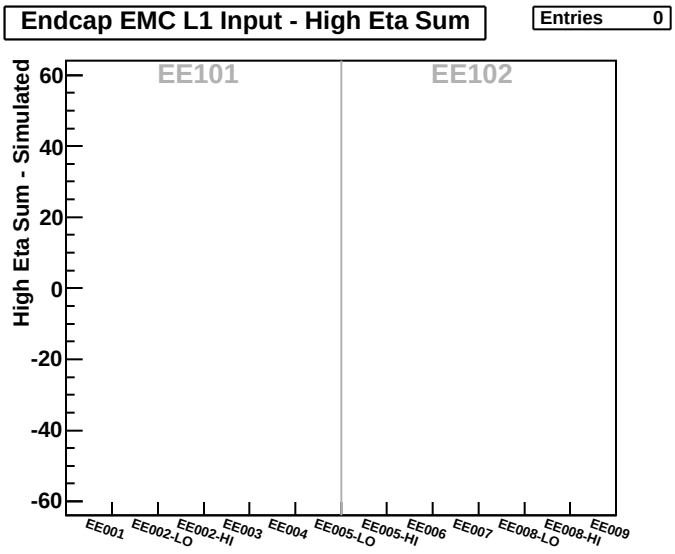

Barrel EMC L1 Input - High Tower Bits
Entries 8634528
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

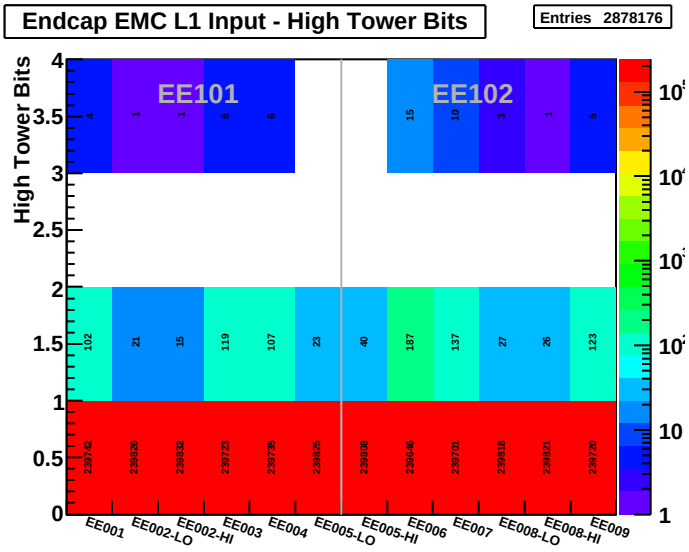

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

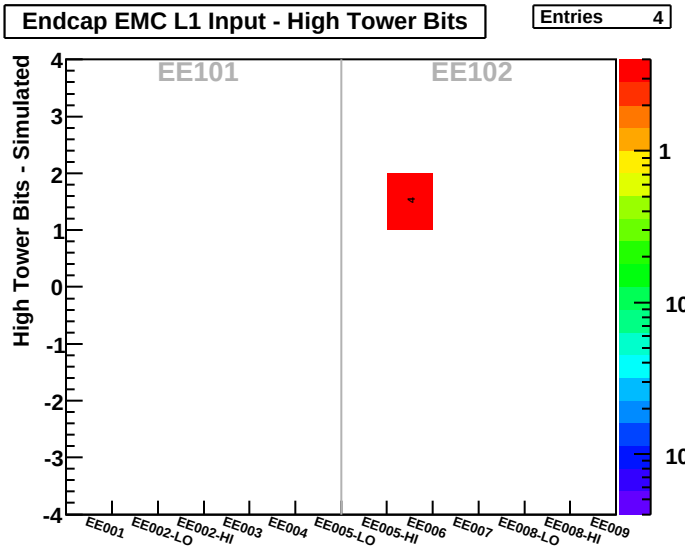

Endcap EMC L1 Input - Low Eta Sum
Entries 2878176
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

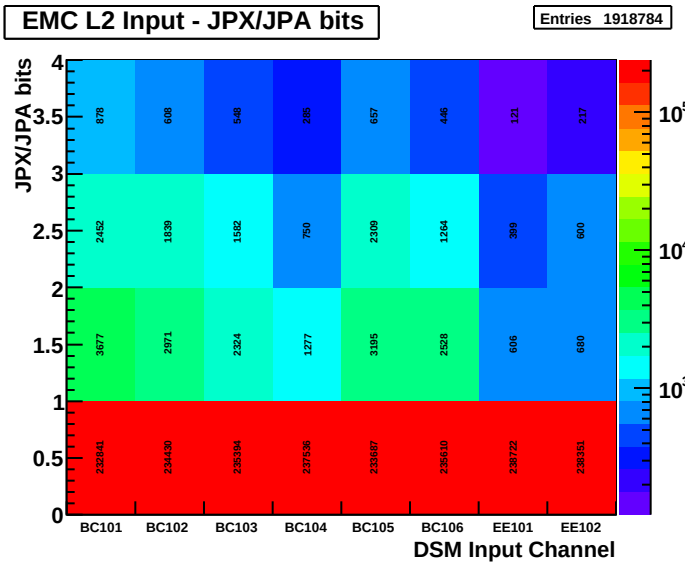

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

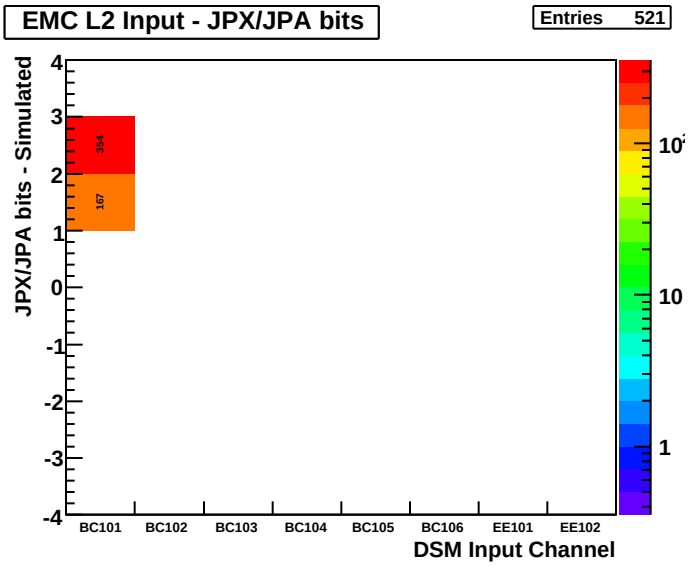

Endcap EMC L1 Input - High Eta Sum
Entries 2878176
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

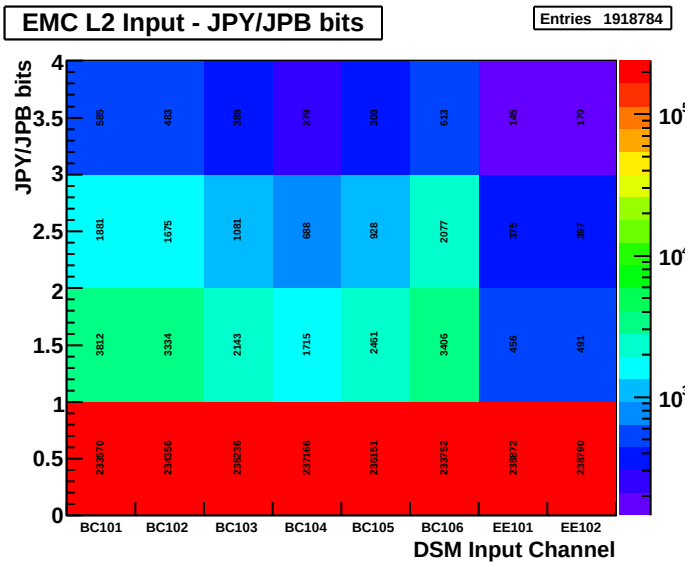

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

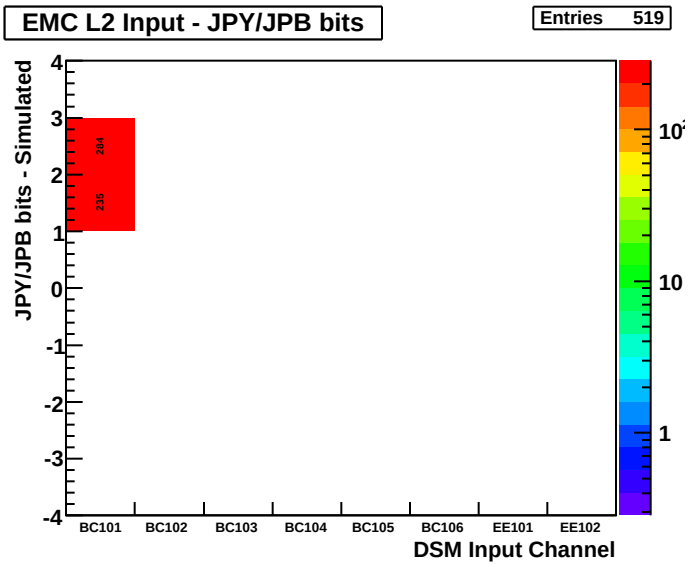

Endcap EMC L1 Input - High Tower Bits
Entries 2878176
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

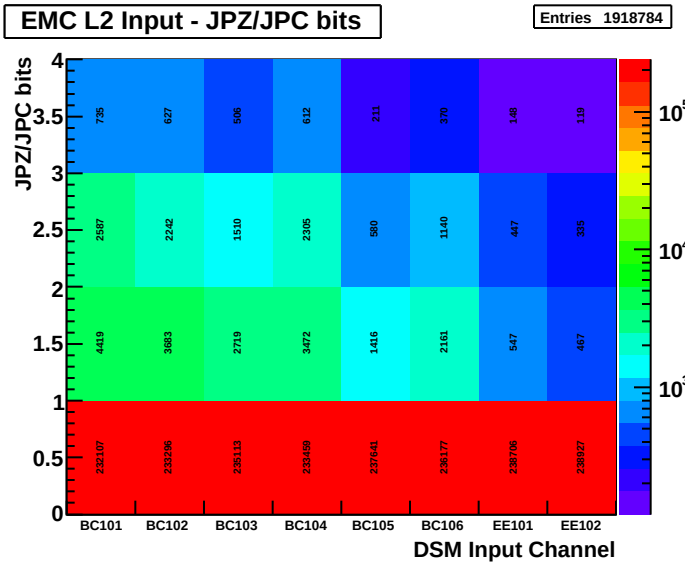

Endcap EMC L1 Input - High Tower Bits
Entries 4
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

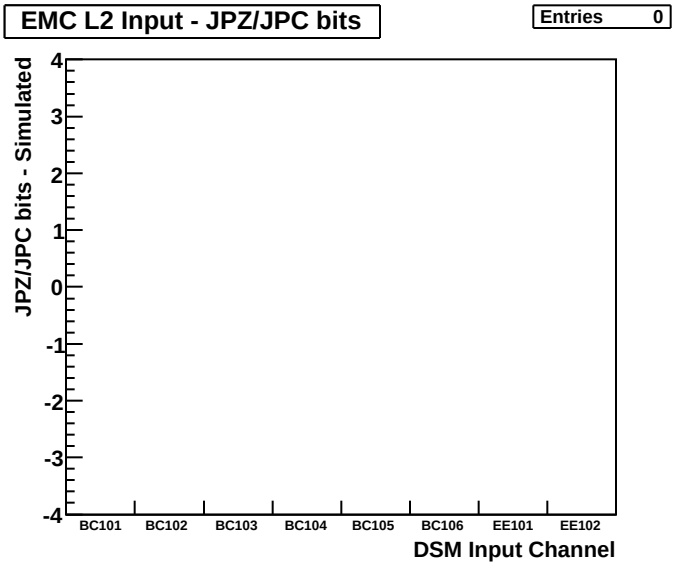

EMC L2 Input - JPX/JPA bits
Entries 1918784
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
878 608 548 285 657 446 121 217
2452 1839 1582 750 2309 1264 399 600
3677 2971 2324 1277 3195 2528 606 680
232641 234430 235394 237536 233687 235610 238722 239351

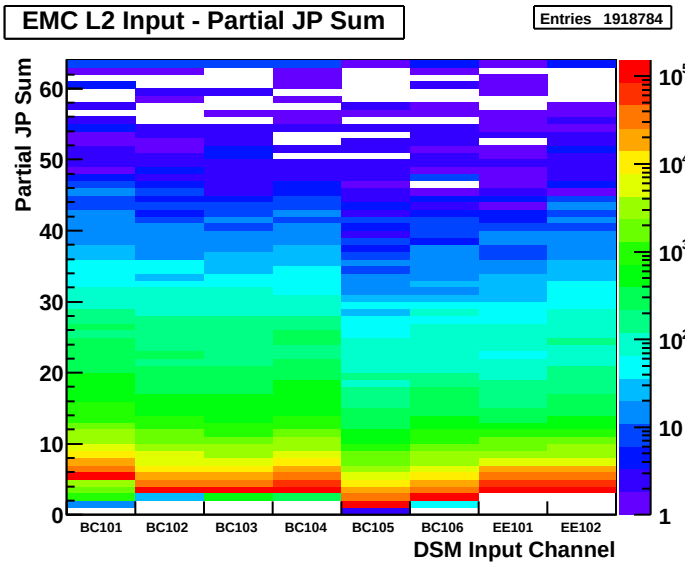

EMC L2 Input - JPX/JPA bits
Entries 521
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
354
167

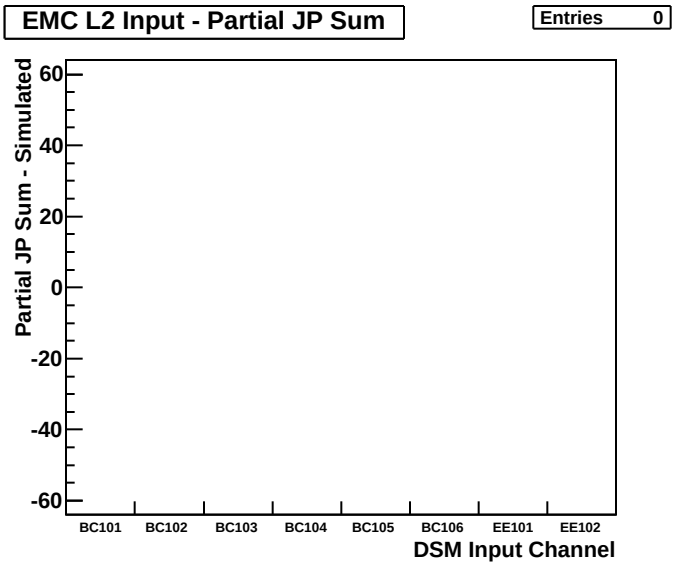

EMC L2 Input - JPY/JPB bits
Entries 1918784
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
585 483 388 270 308 613 145 170
1881 1675 1081 688 928 2077 375 397
3812 3334 2143 1715 2461 3406 456 491
233570 234356 236236 237166 236151 233752 238872 239790

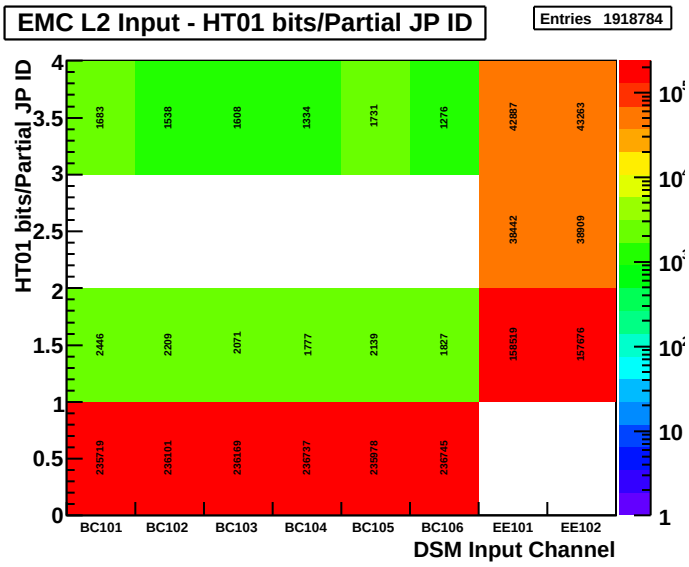

EMC L2 Input - JPY/JPB bits
Entries 519
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
284
235

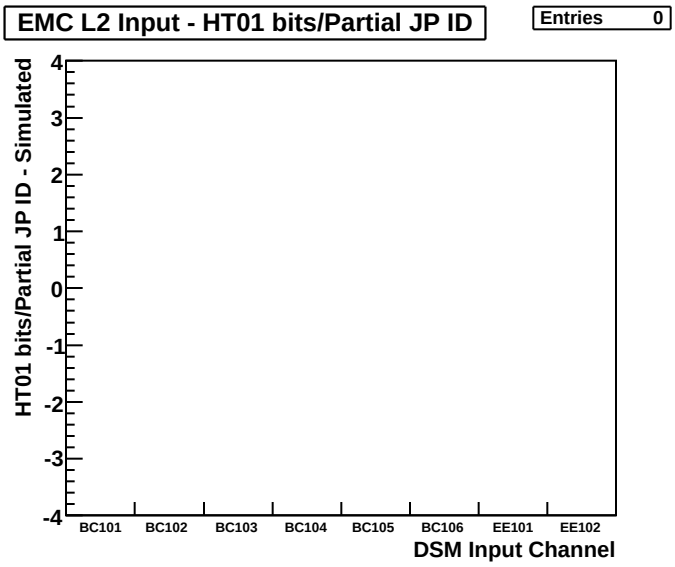

EMC L2 Input - JPZ/JPC bits
Entries 1918784
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
735 627 506 612 211 370 148 119
2587 2242 1510 2305 580 1140 447 335
4419 3683 2719 3472 1416 2161 547 467
232107 233296 235113 233459 237641 236177 238706 238927

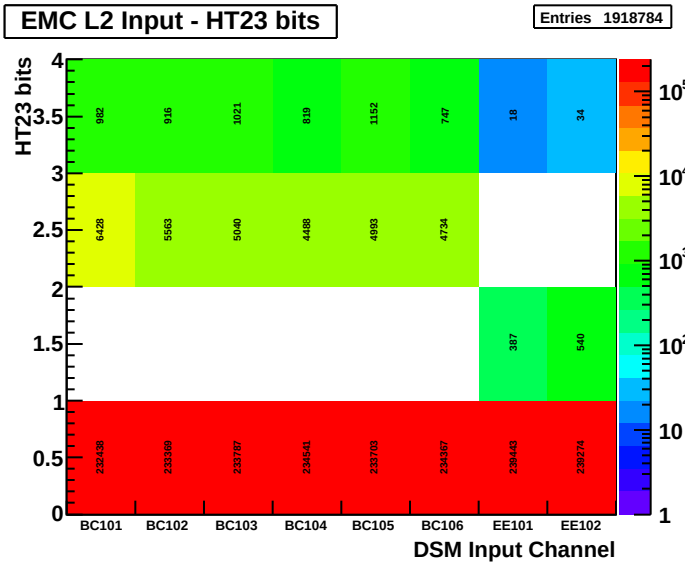

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

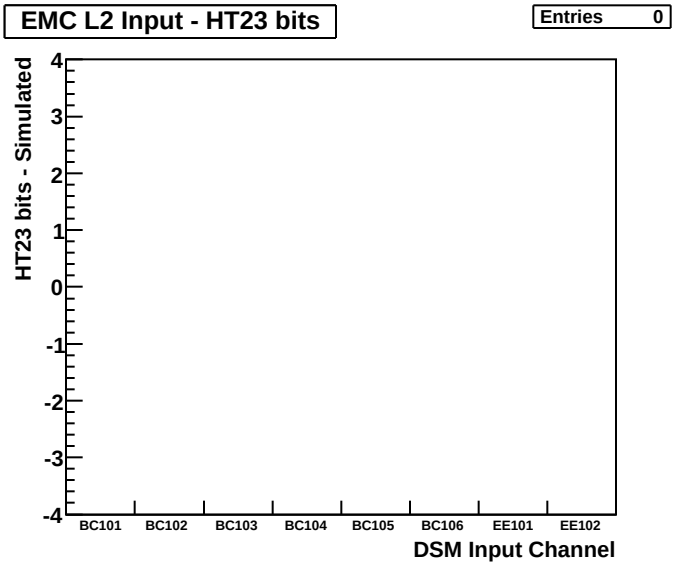

EMC L2 Input - Partial JP Sum
Entries 1918784
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

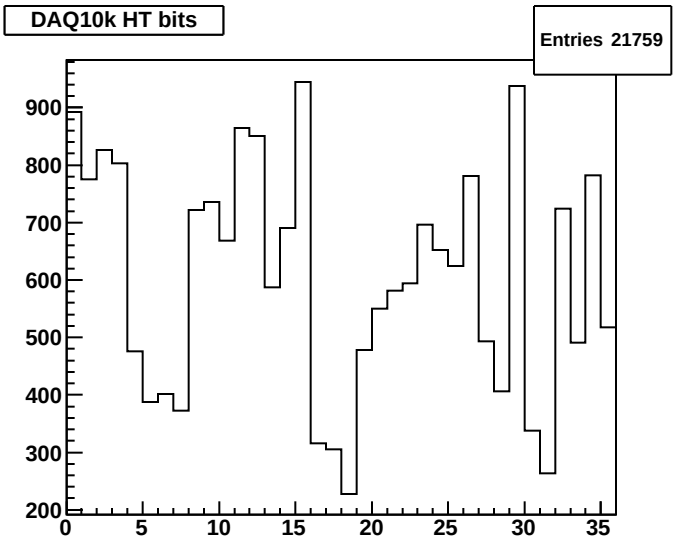

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

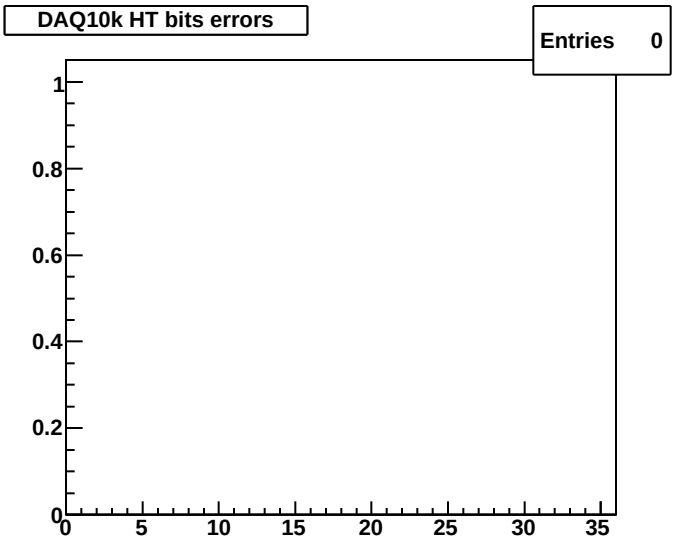

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1918784
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

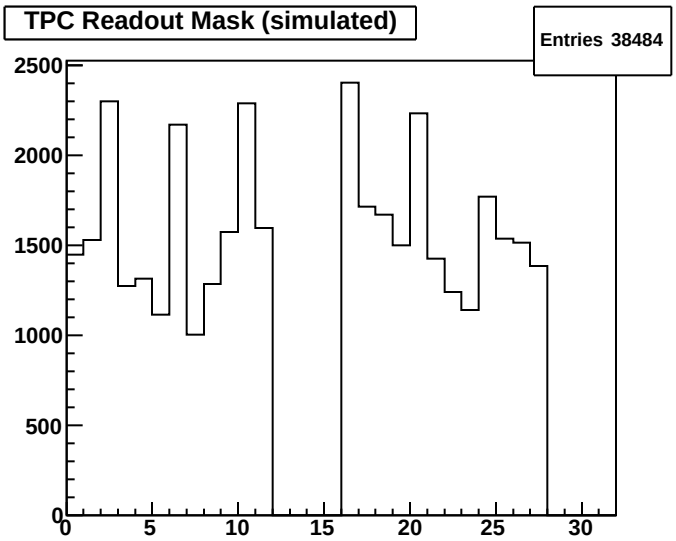

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

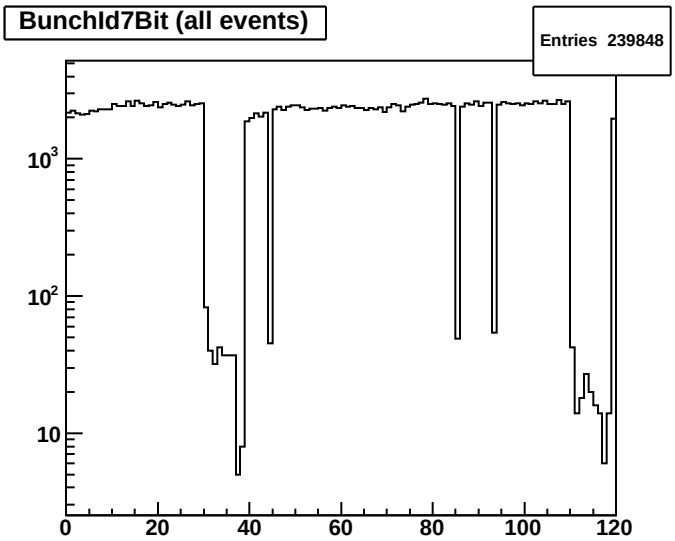

EMC L2 Input - HT23 bits
Entries 1918784
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

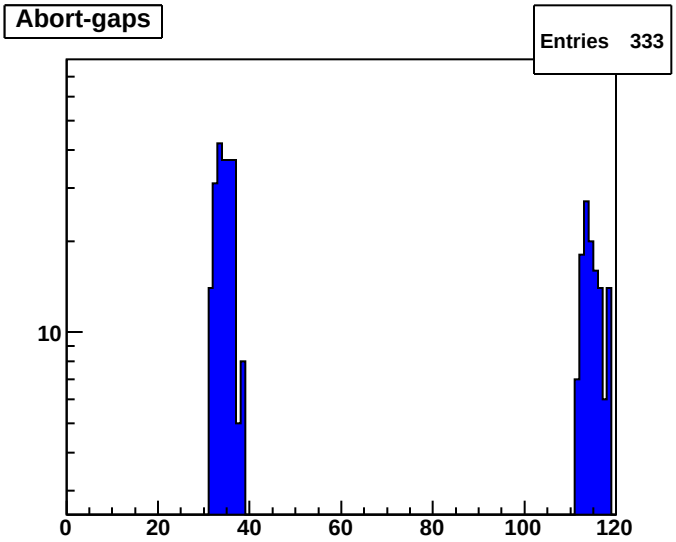

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

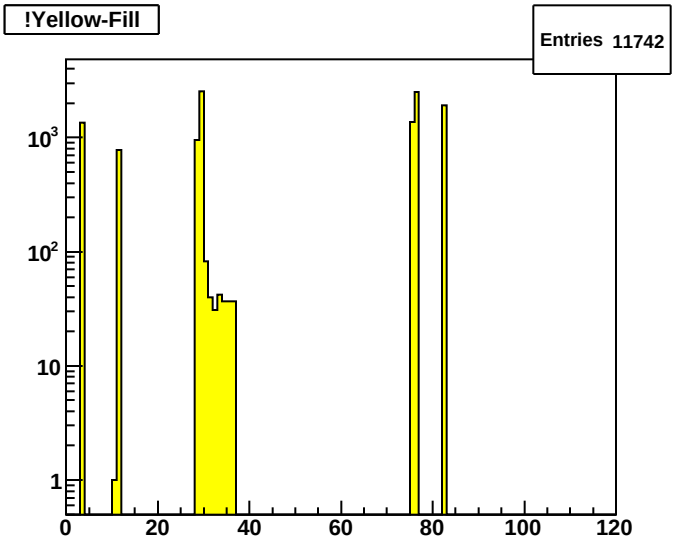

DAQ10k HT bits
Entries 21759

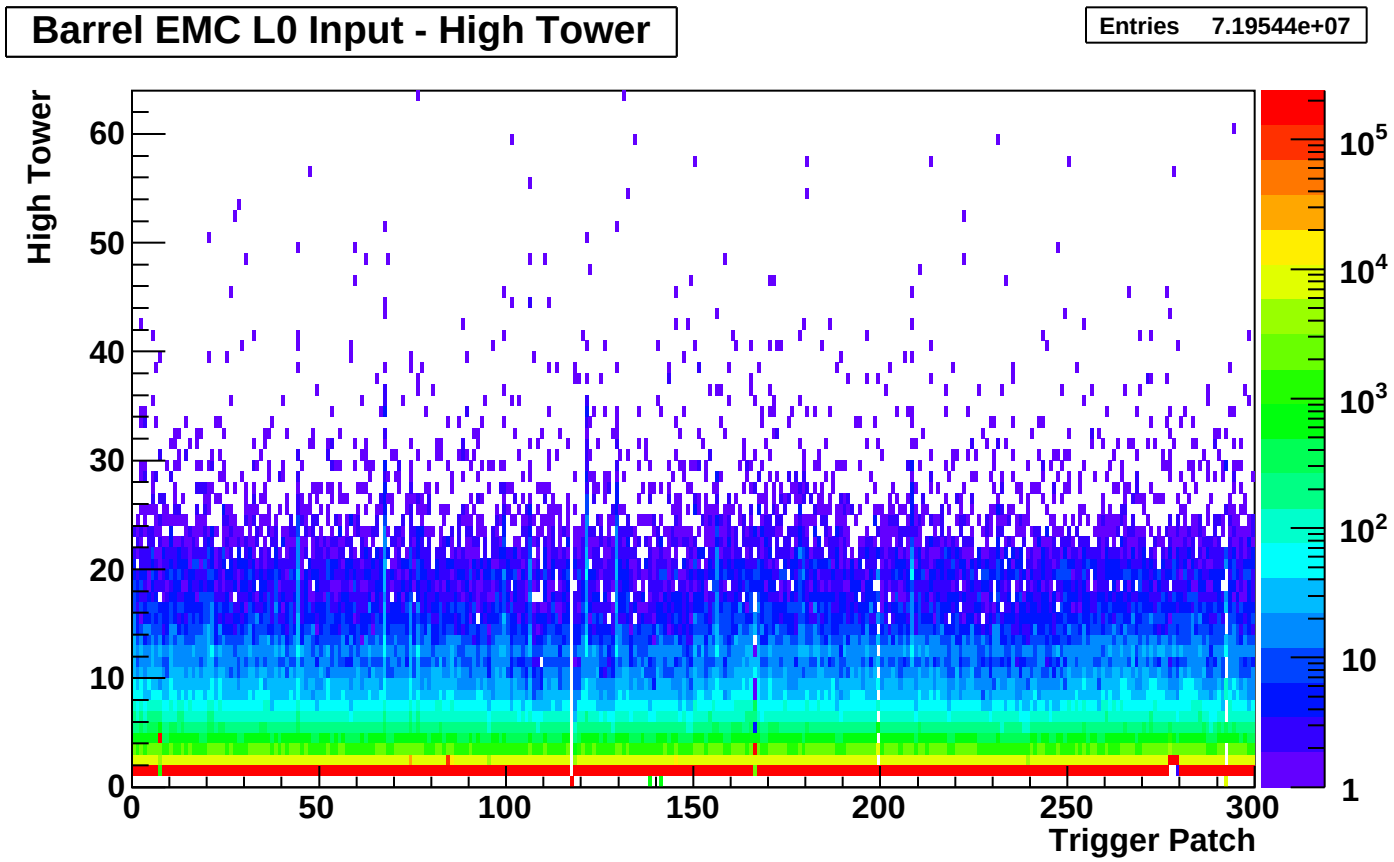

DAQ10k HT bits errors
Entries 0

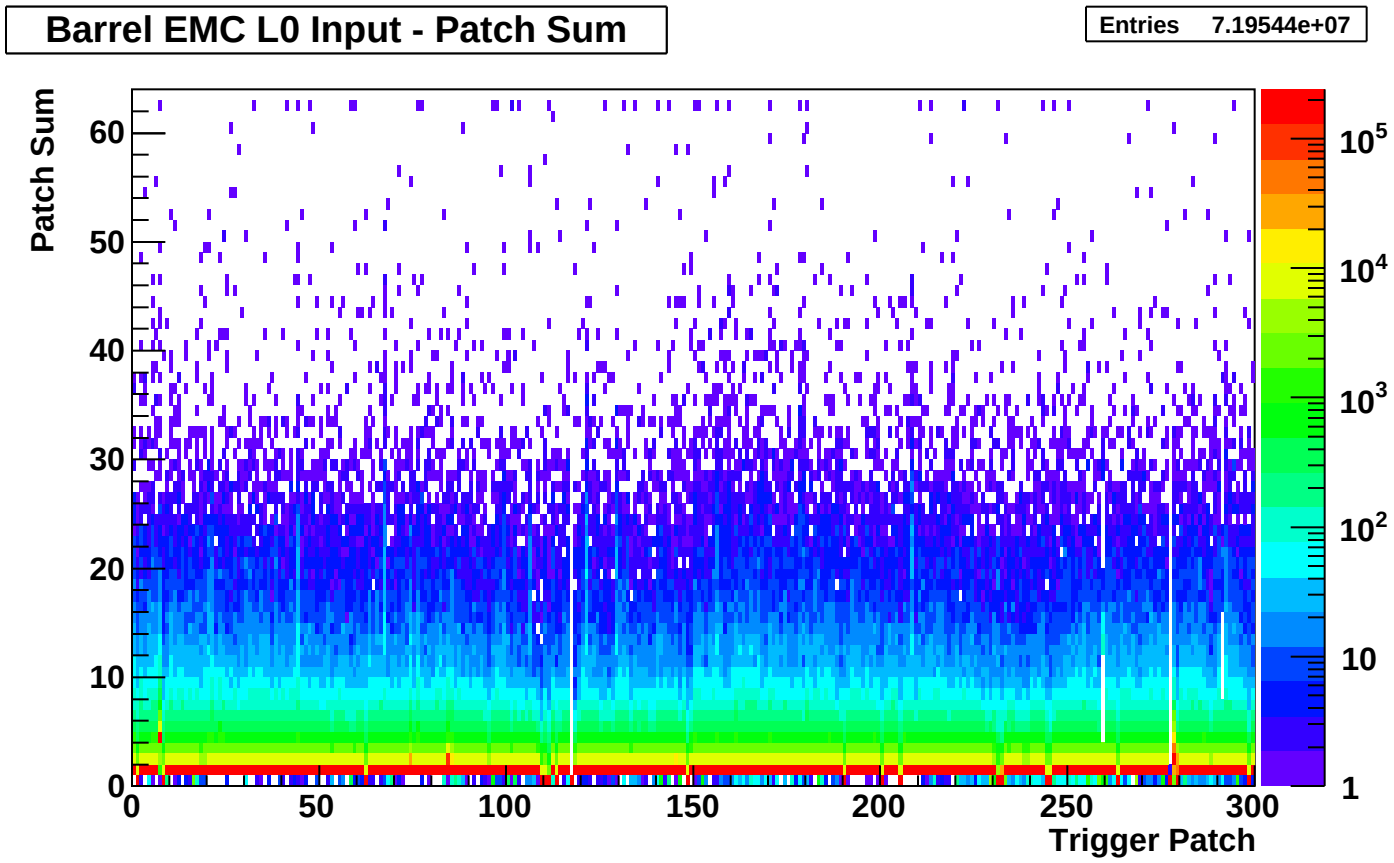

TPC Readout Mask (simulated)
Entries 38484

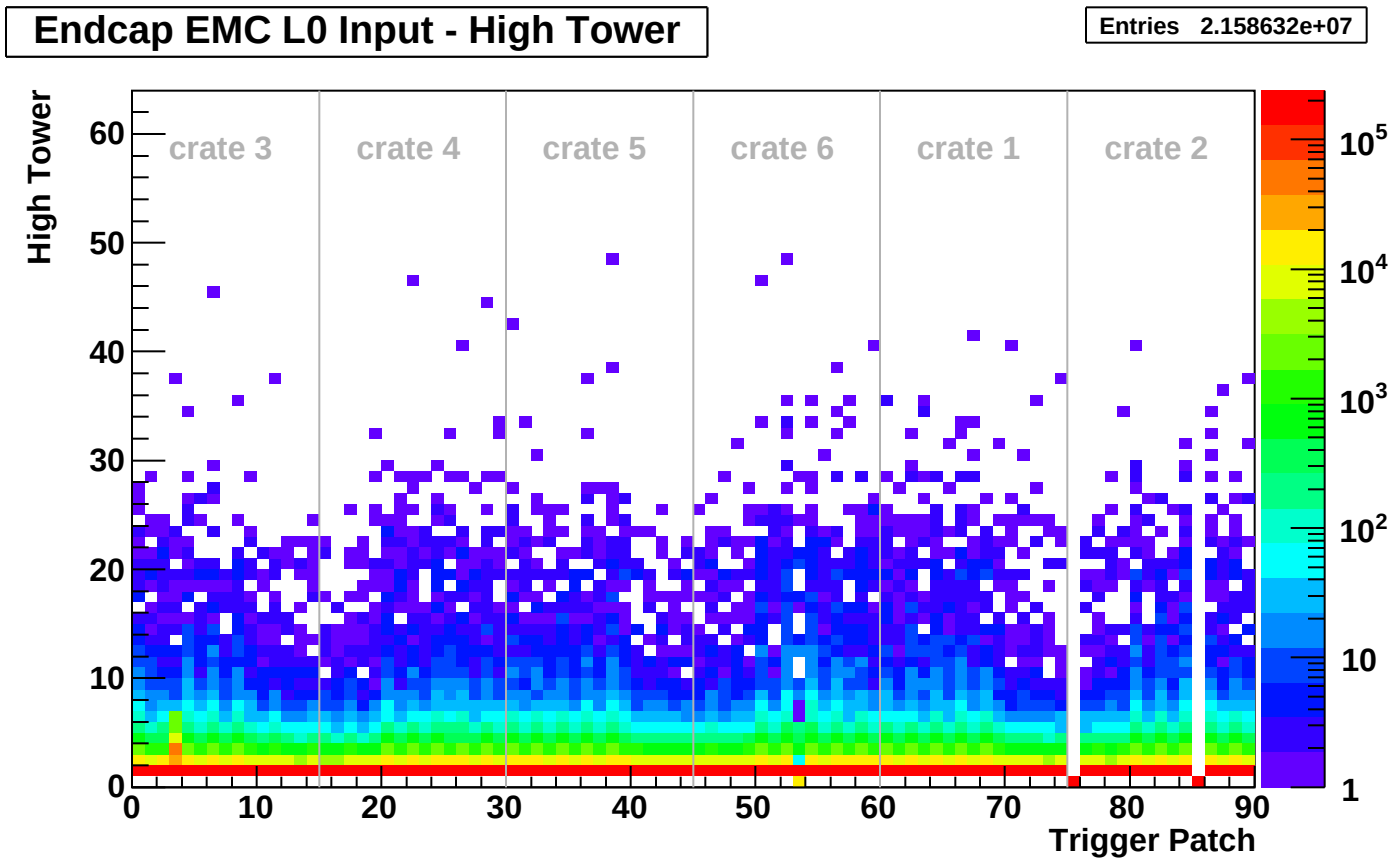

BunchId7Bit (all events)
Entries 239848

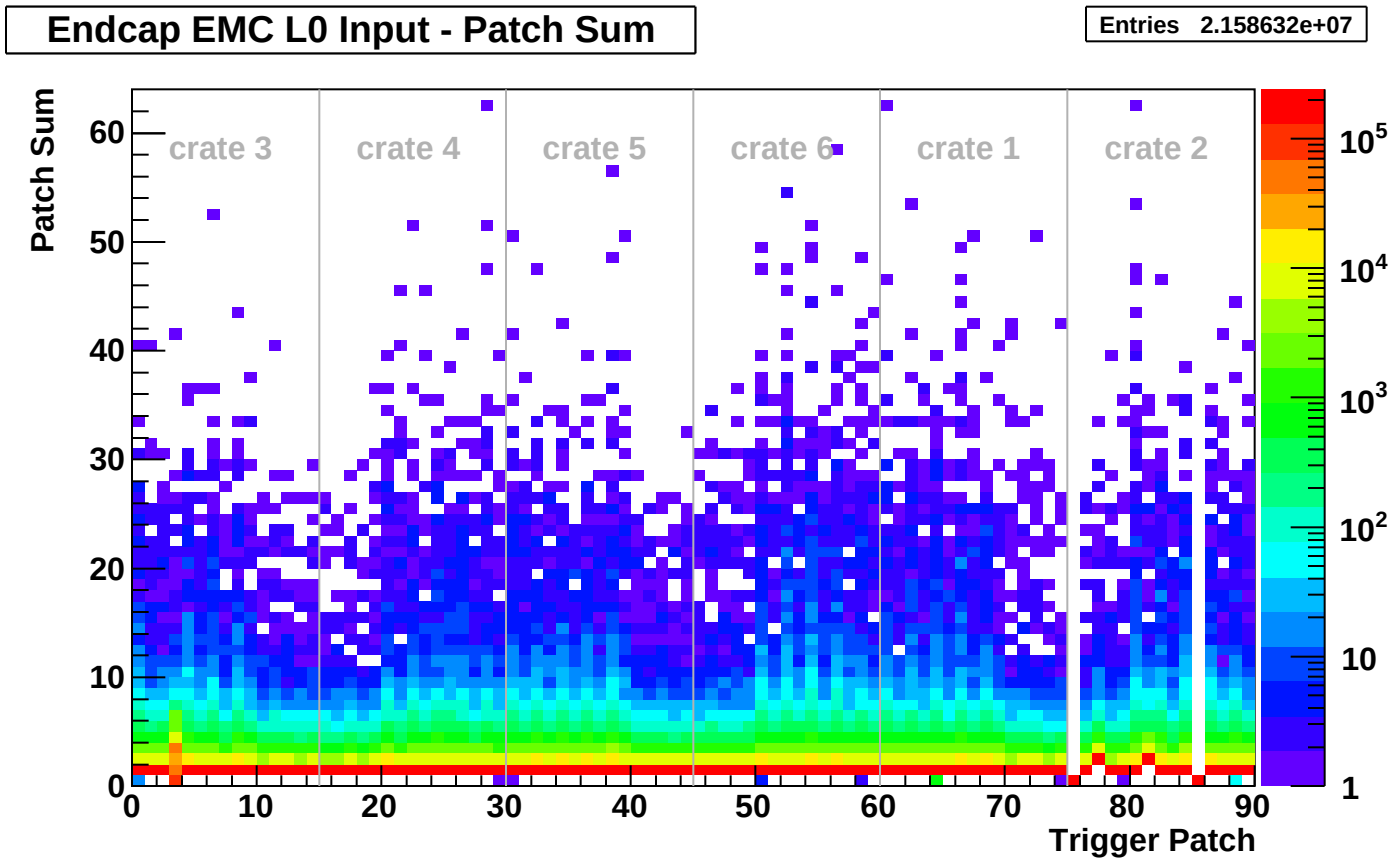

Abort-gaps
Entries 333

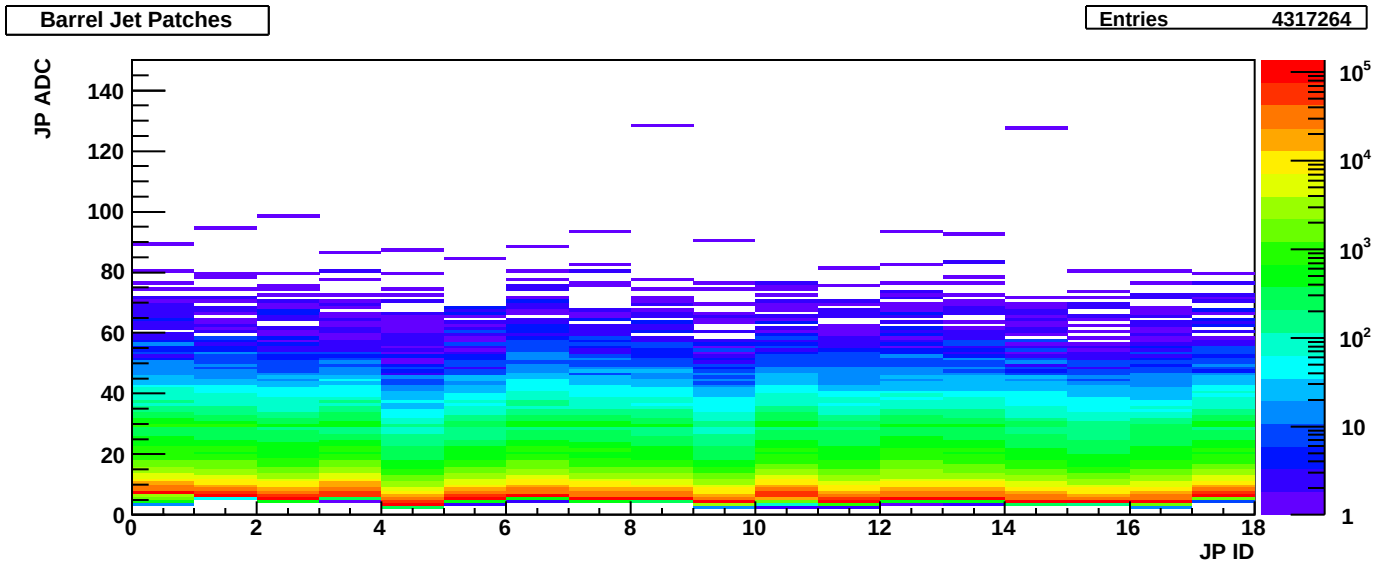

!Yellow-Fill
Entries 11742

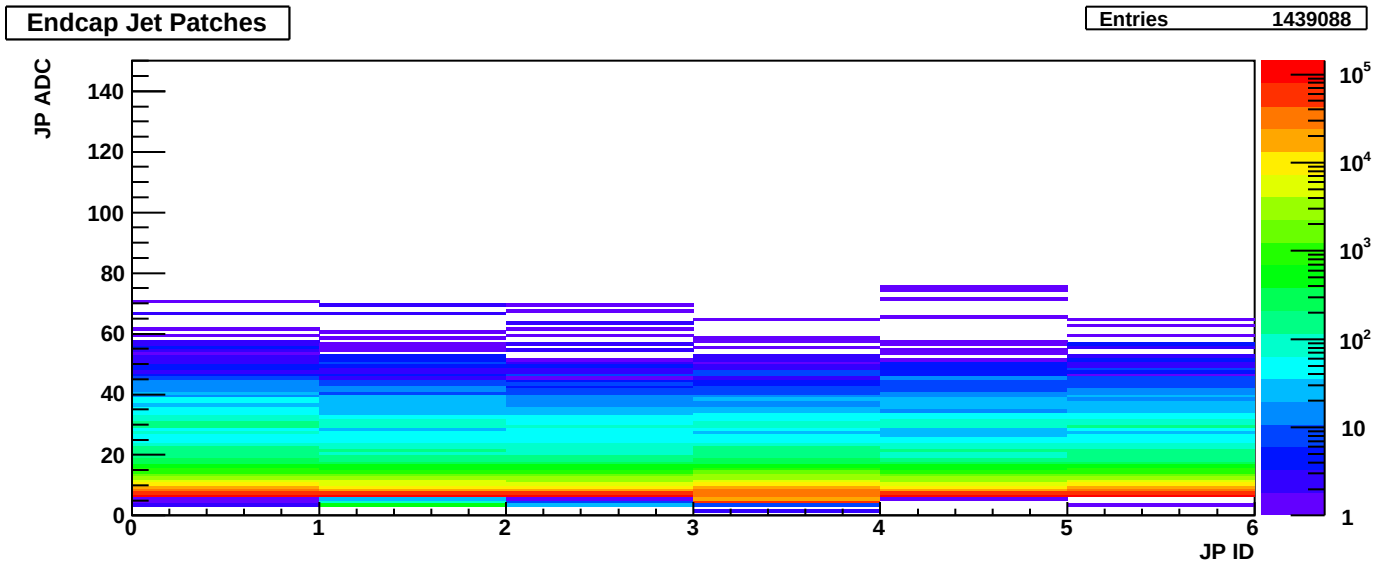

Barrel EMC L0 Input - High Tower
Entries 7.19544e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

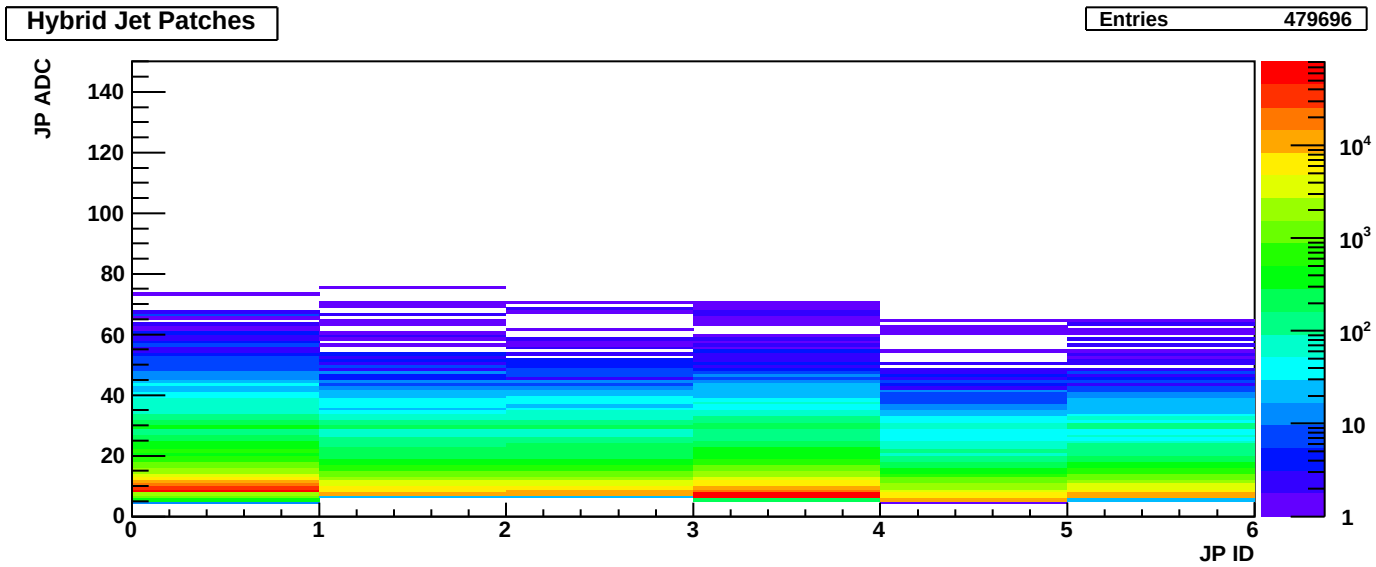

Barrel EMC L0 Input - Patch Sum
Entries 7.19544e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

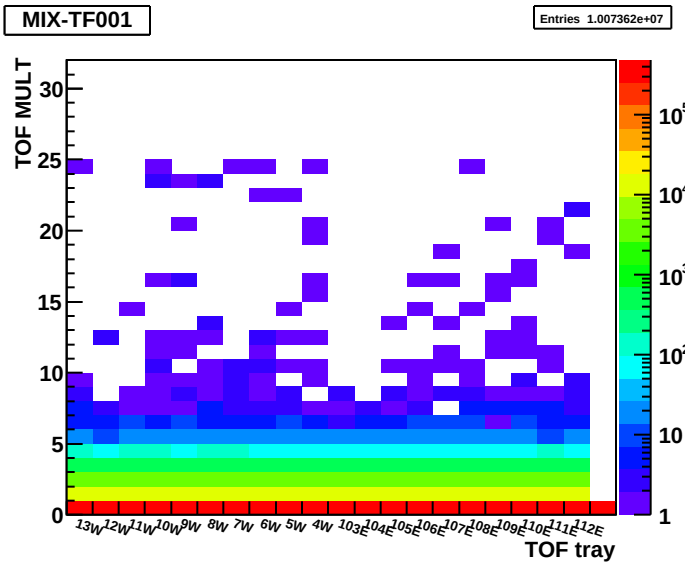

Endcap EMC L0 Input - High Tower
Entries 2.158632e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

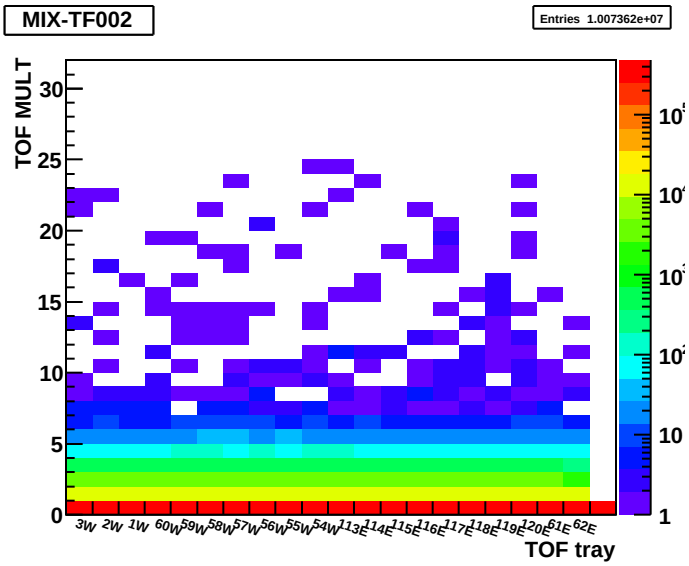

Endcap EMC L0 Input - Patch Sum
Entries 2.158632e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

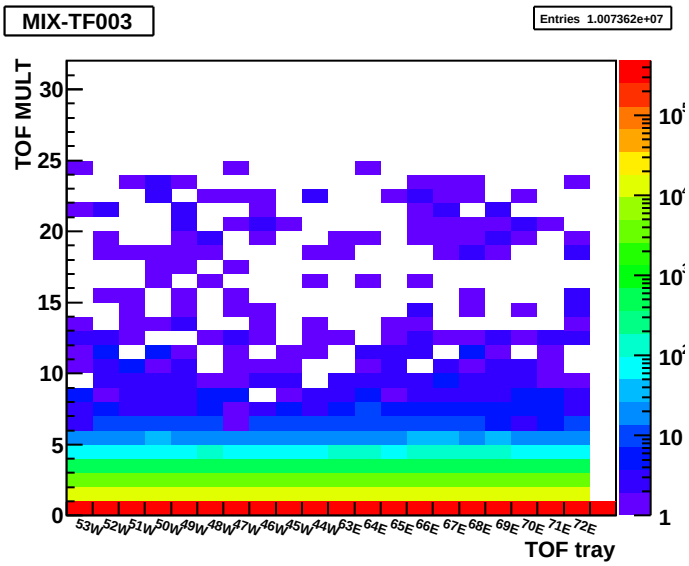

Barrel Jet Patches
Entries 4317264
JP ADC
JP ID

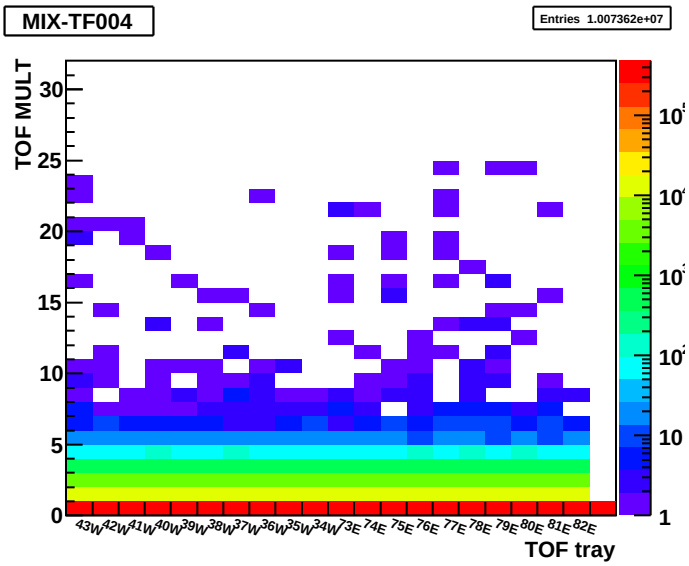

Endcap Jet Patches
Entries 1439088
JP ADC
JP ID

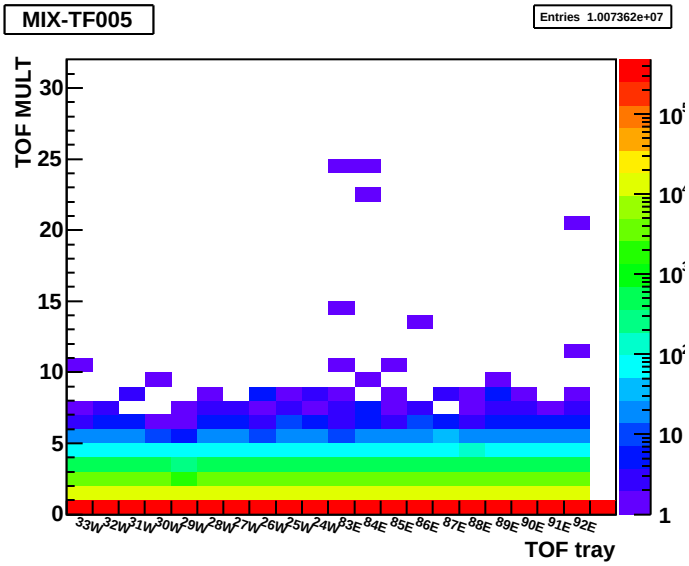

Hybrid Jet Patches
Entries 479696
JP ADC
JP ID

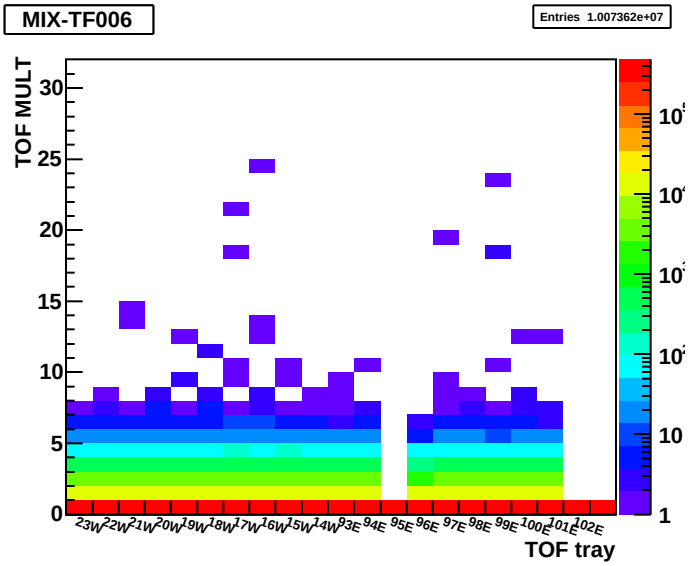

MIX-TF001
Entries 1.007362e+07
TOF MULT
TOF tray

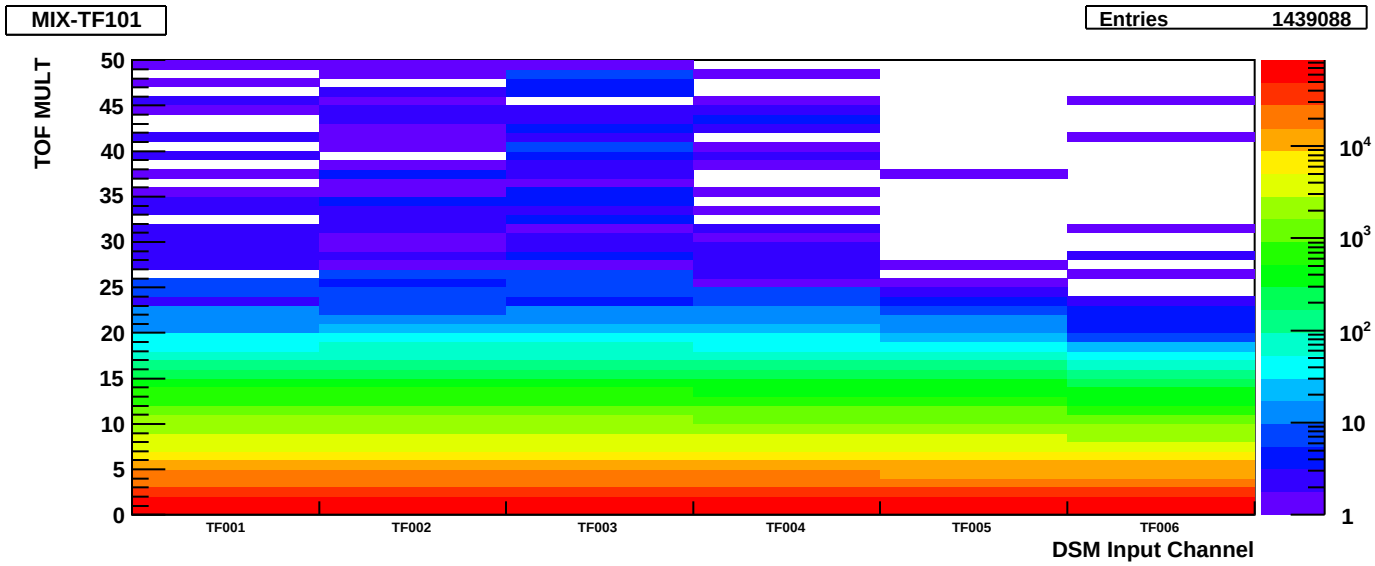

MIX-TF002
Entries 1.007362e+07
TOF MULT
TOF tray

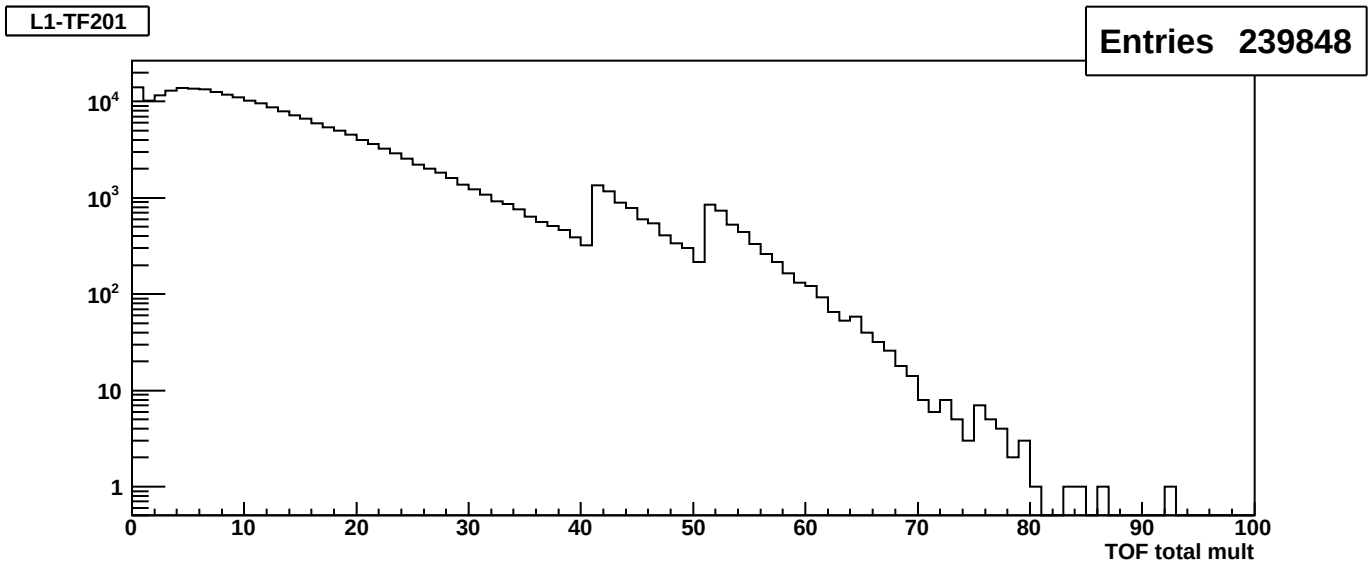

MIX-TF003
Entries 1.007362e+07
TOF MULT
TOF tray

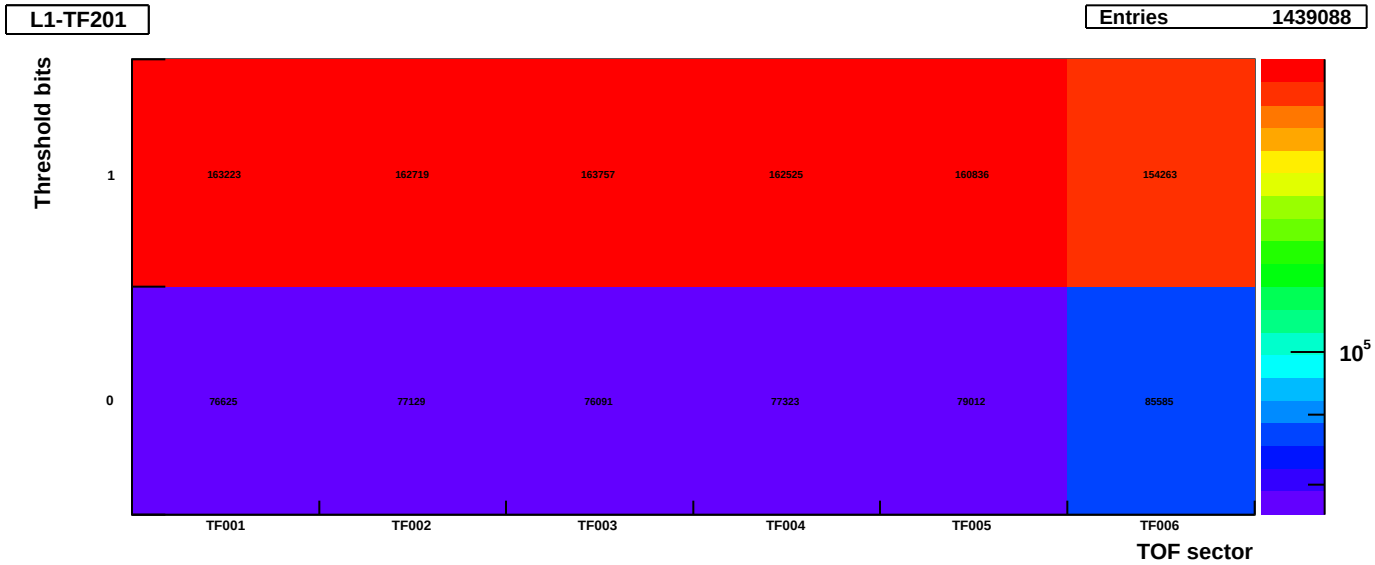

MIX-TF004
Entries 1.007362e+07
TOF MULT
TOF tray

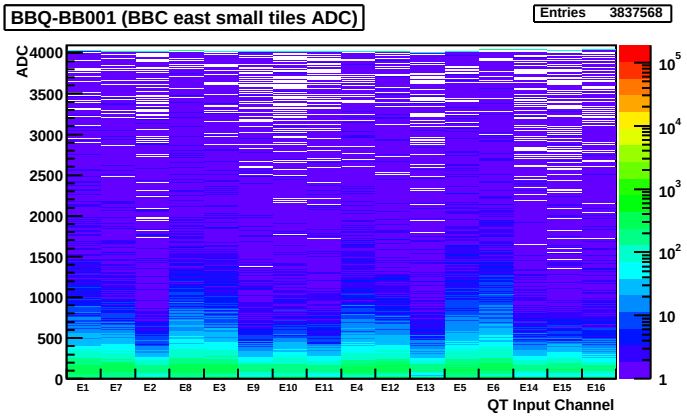

MIX-TF005
Entries 1.007362e+07
TOF MULT
TOF tray

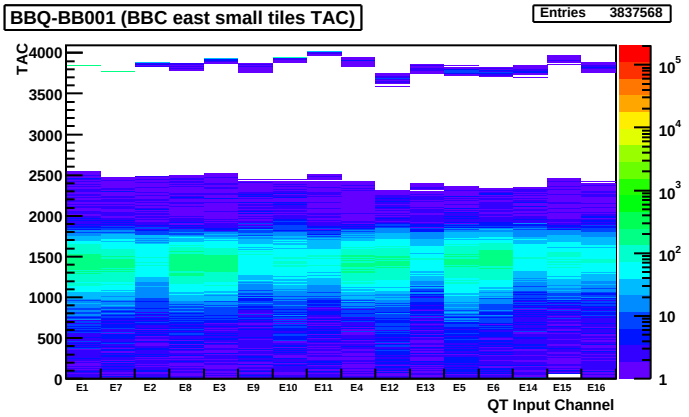

MIX-TF006
Entries 1.007362e+07
TOF MULT
TOF tray

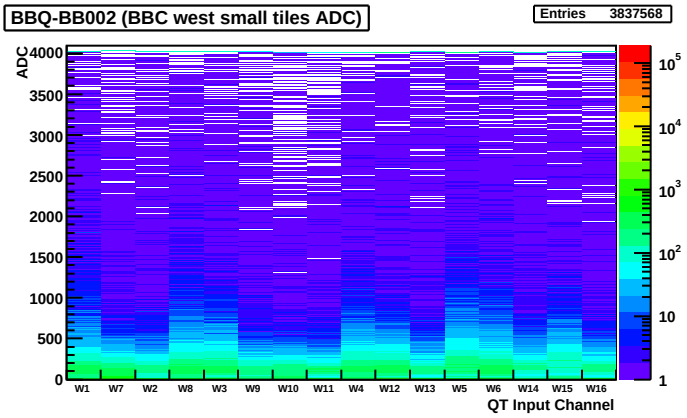

MIX-TF101
Entries 1439088
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

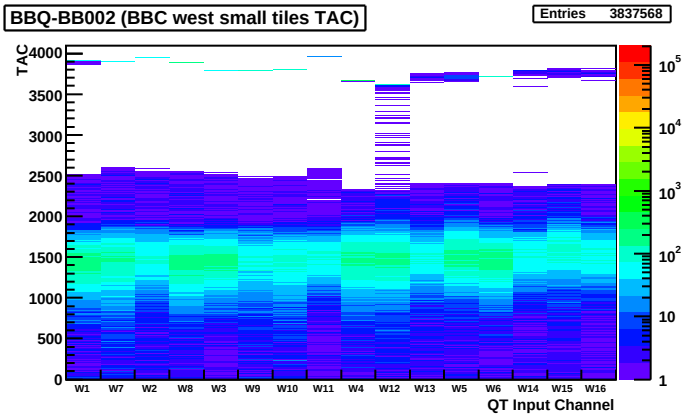

L1-TF201
Entries 239848
TOF total mult

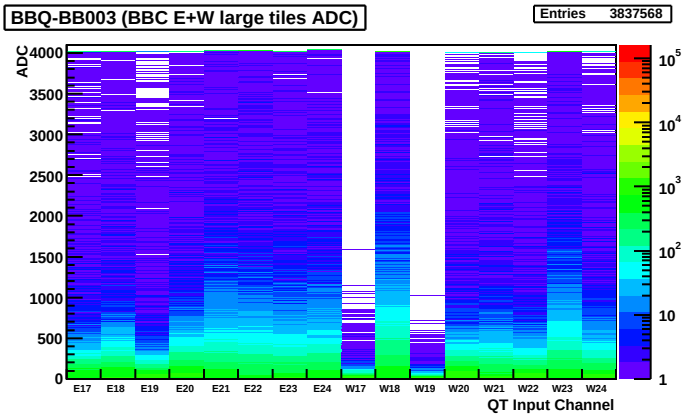

L1-TF201
Entries 1439088
Threshold bits
163223
162719
163757
162525
160836
154263
76625
77129
76091
77323
79012
85585
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

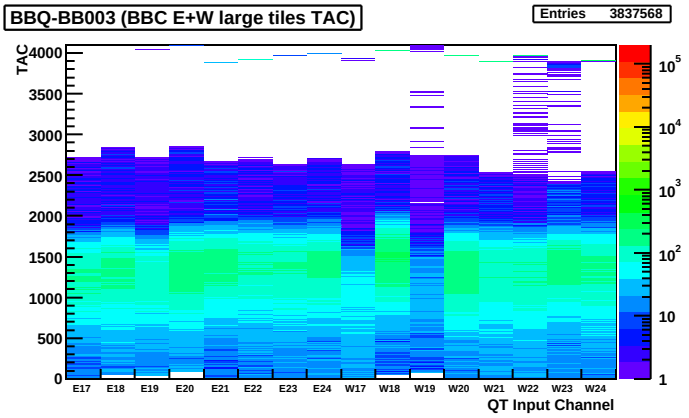

BBQ-BB001 (BBC east small tiles ADC)
Entries 3837568
ADC
QT Input Channel

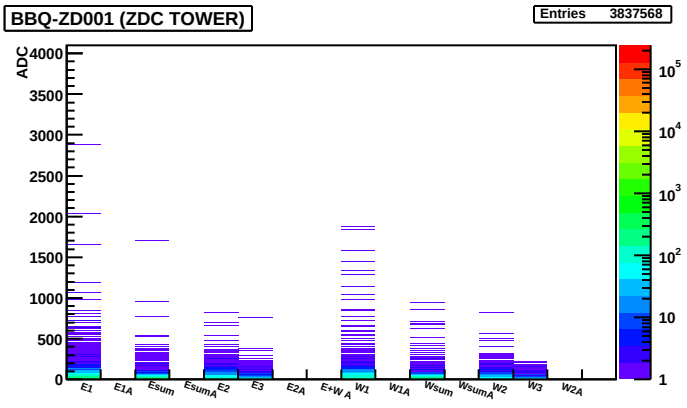

BBQ-BB001 (BBC east small tiles TAC)
Entries 3837568
TAC
QT Input Channel

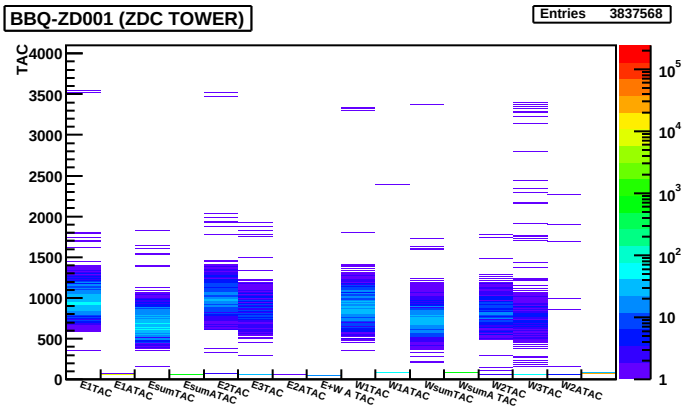

BBQ-BB002 (BBC west small tiles ADC)
Entries 3837568
ADC
QT Input Channel

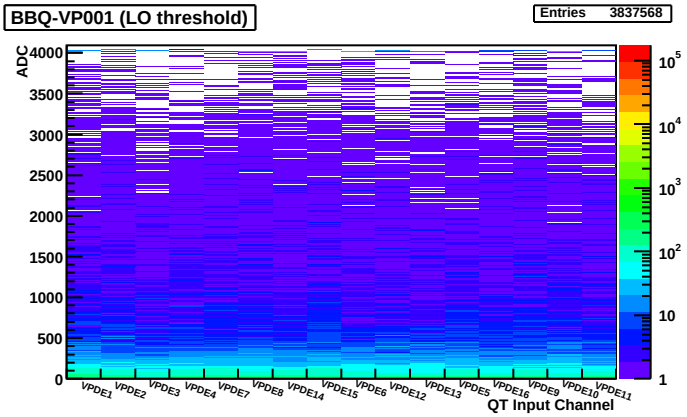

BBQ-BB002 (BBC west small tiles TAC)
Entries 3837568
TAC
QT Input Channel

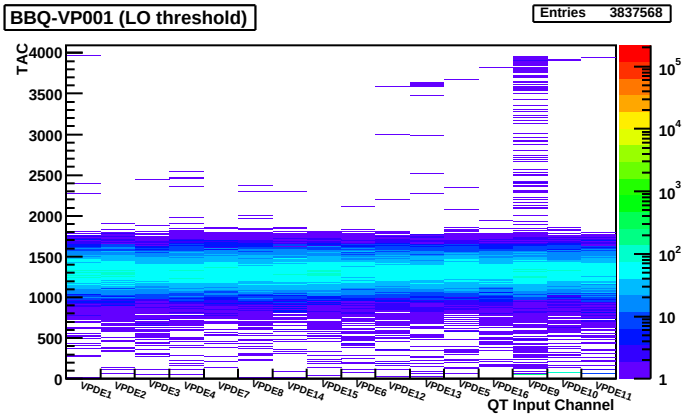

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3837568
ADC
QT Input Channel

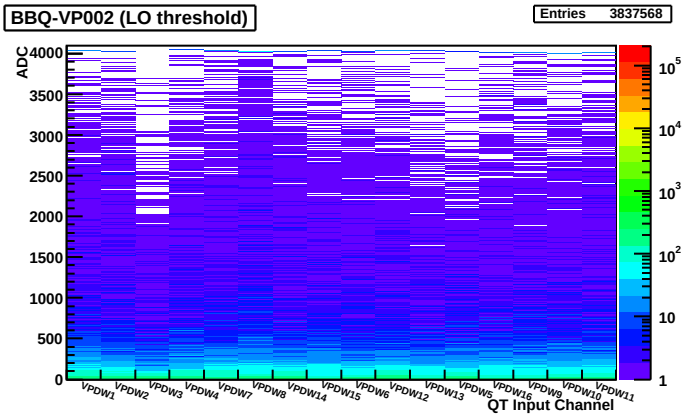

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3837568
TAC
QT Input Channel

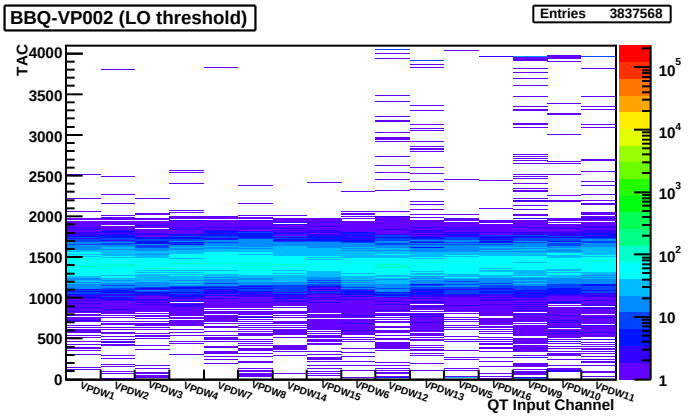

BBQ-ZD001 (ZDC TOWER)
Entries 3837568
ADC

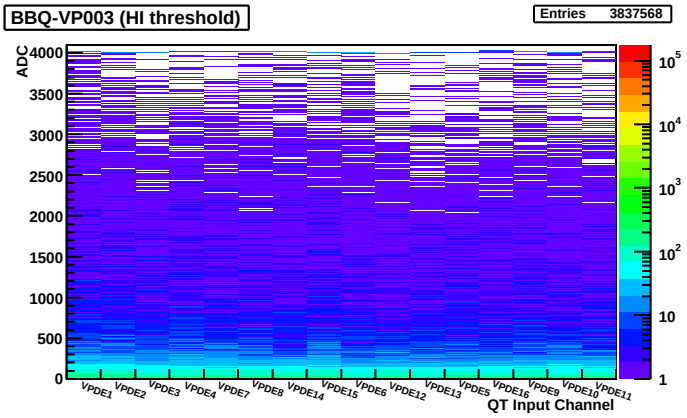

BBQ-ZD001 (ZDC TOWER)
Entries 3837568
TAC

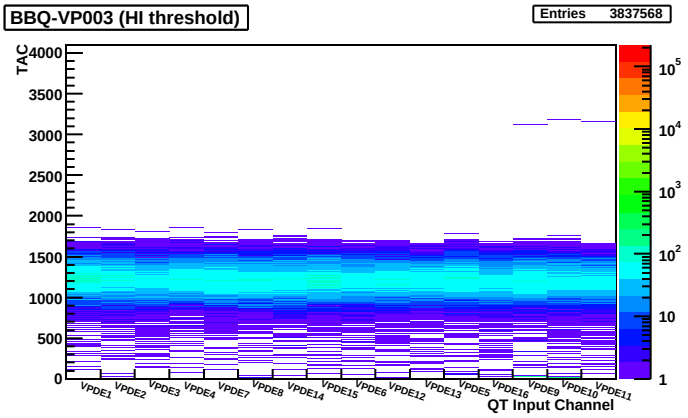

BBQ-VP001 (LO threshold)
Entries 3837568
ADC
QT Input Channel

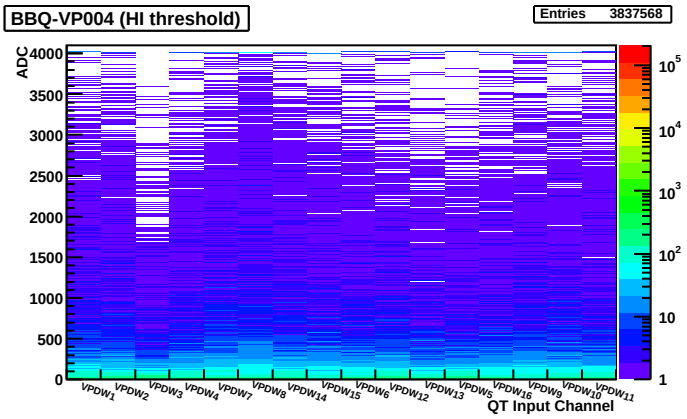

BBQ-VP001 (LO threshold)
Entries 3837568
TAC
QT Input Channel

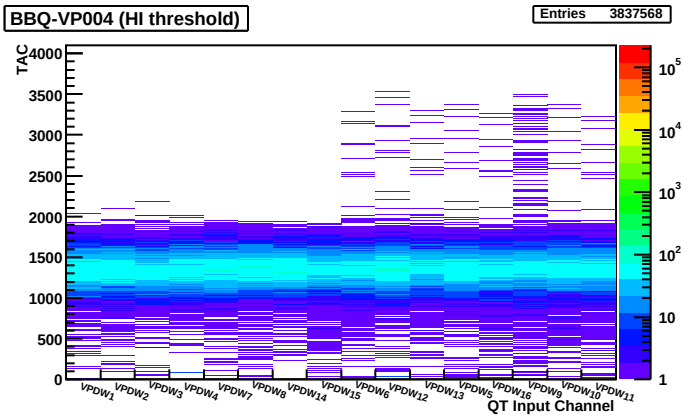

BBQ-VP002 (LO threshold)
Entries 3837568
ADC
QT Input Channel

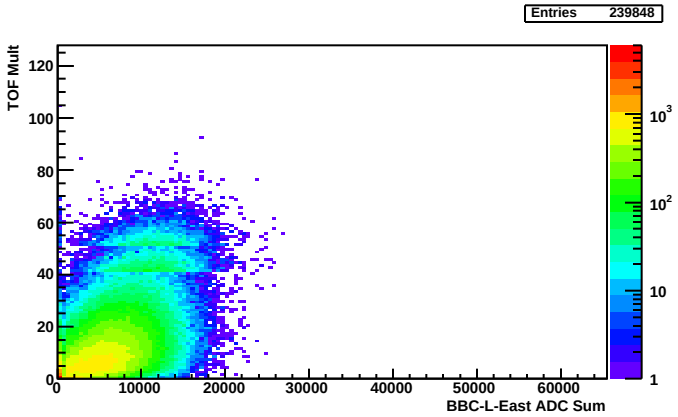

BBQ-VP002 (LO threshold)
Entries 3837568
TAC
QT Input Channel

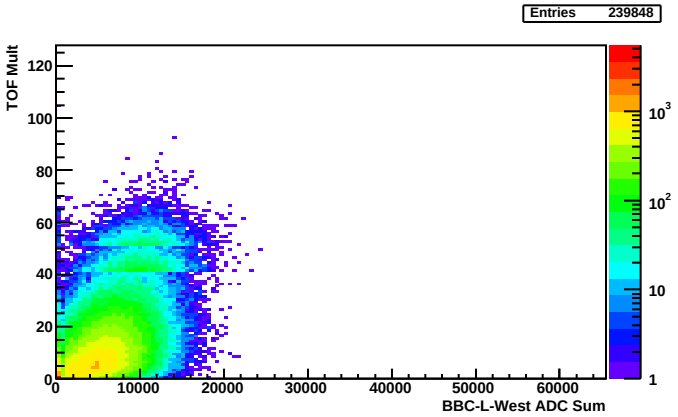

BBQ-VP003 (HI threshold)
Entries 3837568
ADC
QT Input Channel

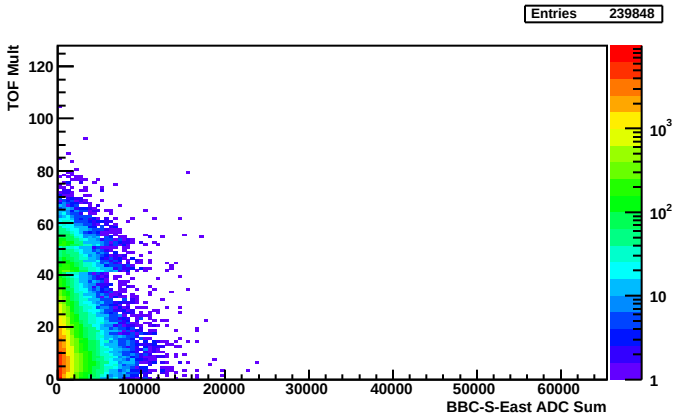

BBQ-VP003 (HI threshold)
Entries 3837568
TAC
QT Input Channel

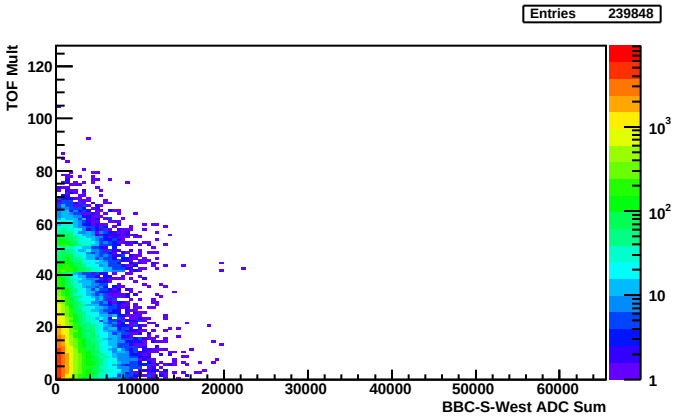

BBQ-VP004 (HI threshold)
Entries 3837568
ADC
QT Input Channel

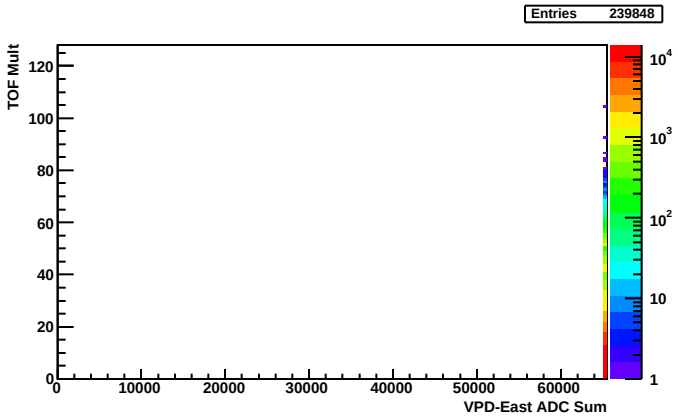

BBQ-VP004 (HI threshold)
Entries 3837568
TAC
QT Input Channel

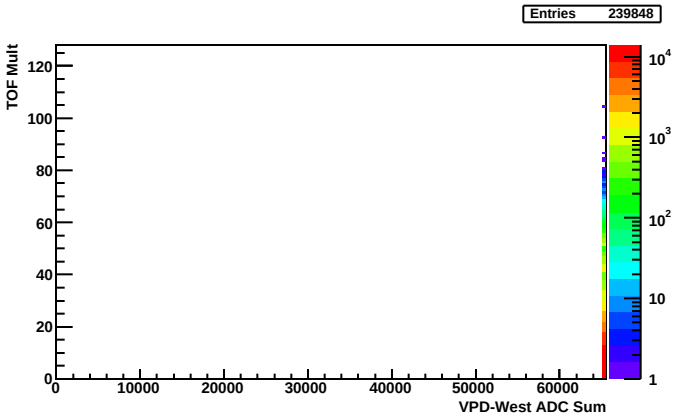

Entries 239848
TOF Mult
BBC-L-East ADC Sum

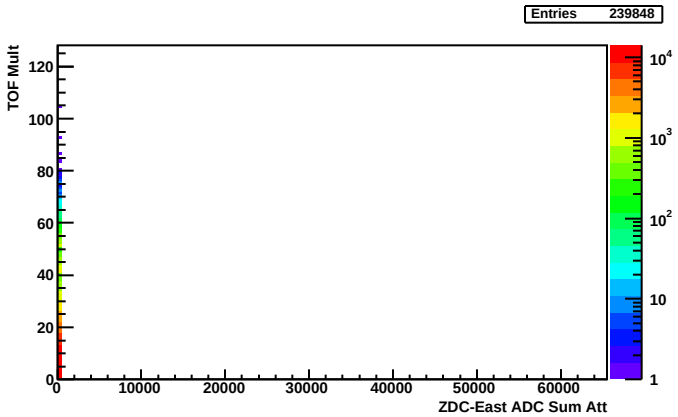

Entries 239848
TOF Mult
BBC-L-West ADC Sum

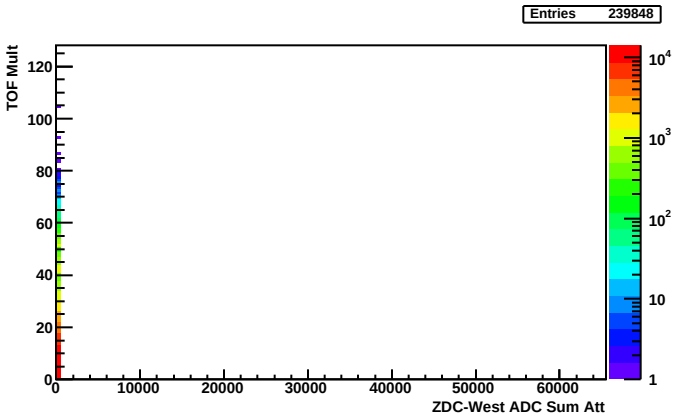

Entries 239848
TOF Mult
BBC-S-East ADC Sum

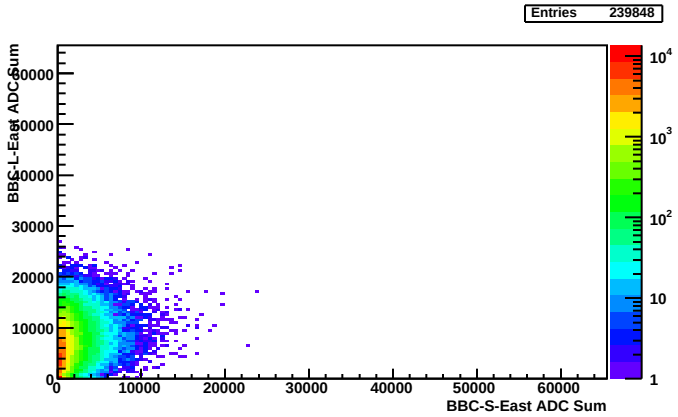

Entries 239848
TOF Mult
BBC-S-West ADC Sum


Entries 239848
TOF Mult
VPD-East ADC Sum


Entries 239848
TOF Mult
VPD-West ADC Sum


Entries 239848
TOF Mult
ZDC-East ADC Sum Att


Entries 239848
TOF Mult
ZDC-West ADC Sum Att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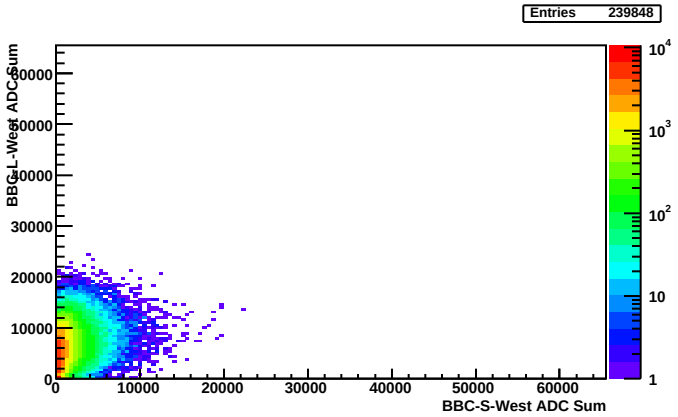
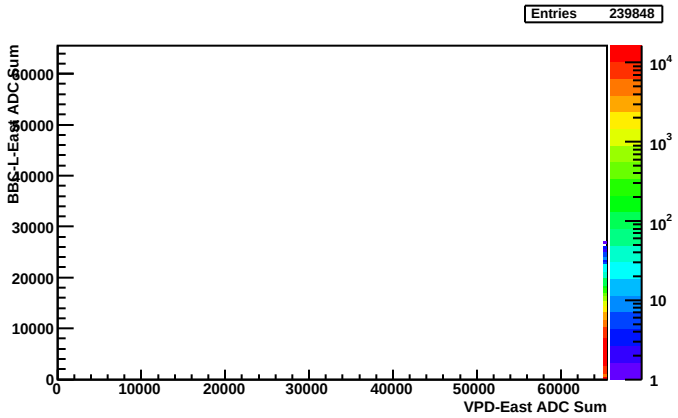
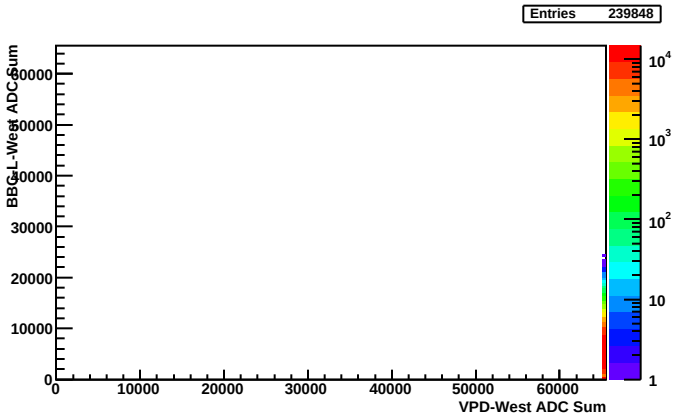
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 239848
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 239848
BBC-L-East ADC Sum
VPD-East ADC Sum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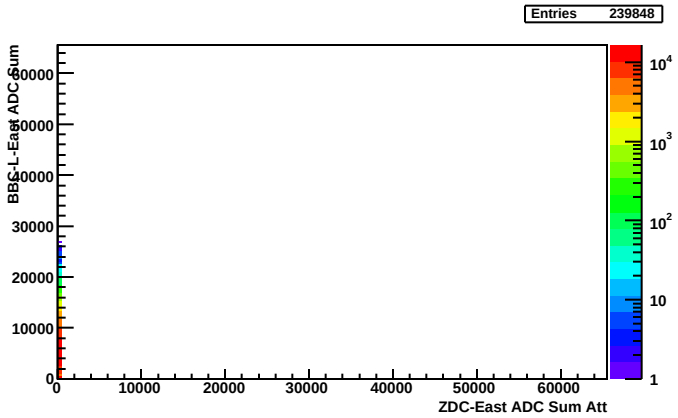
BBC-L-West ADC Sum
VPD-West ADC Sum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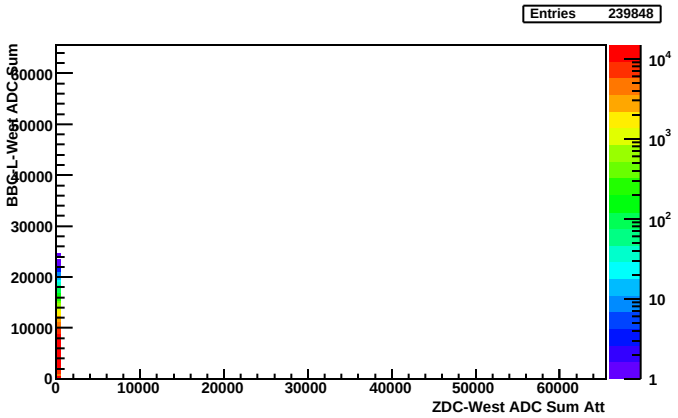
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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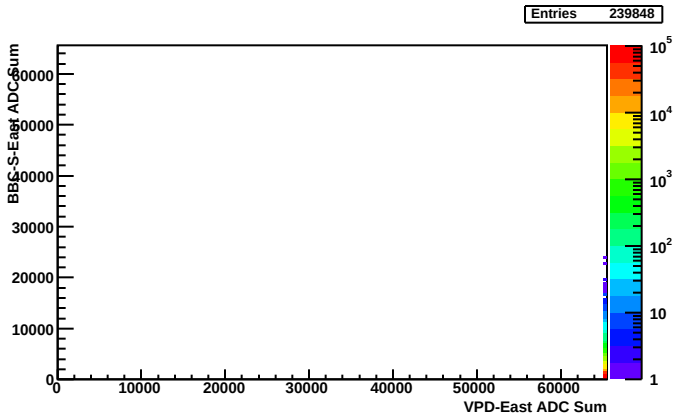
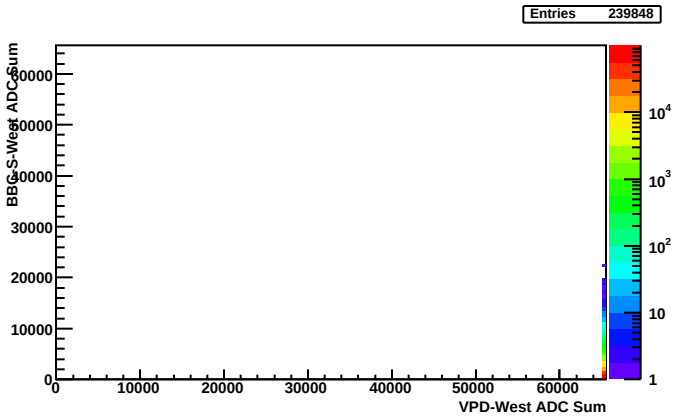
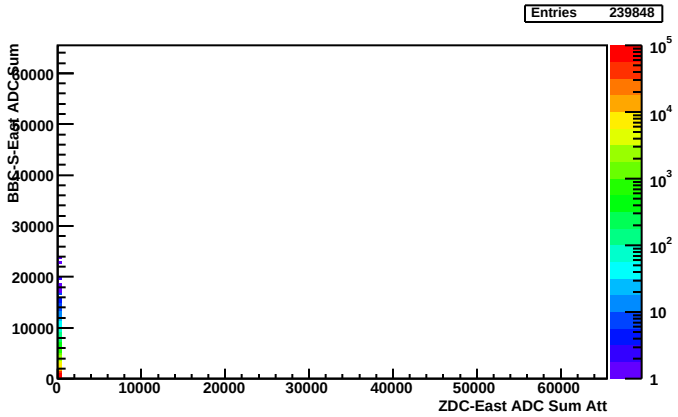
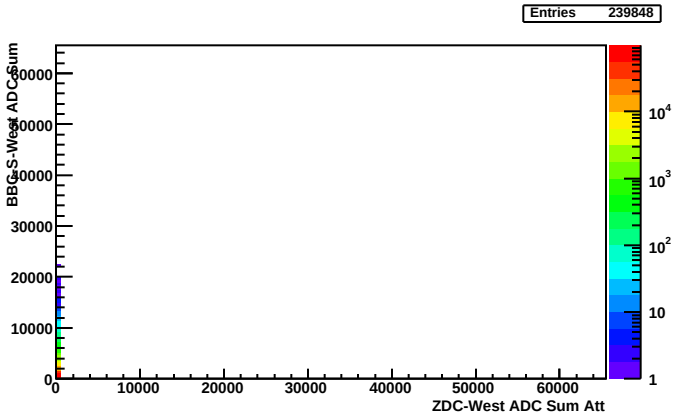
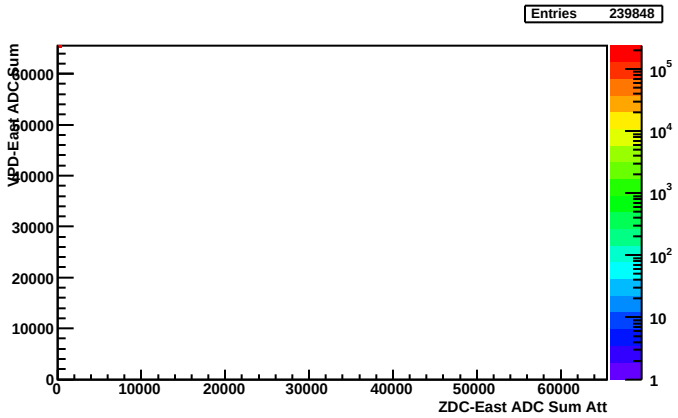
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 239848
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 239848
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 239848
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 239848
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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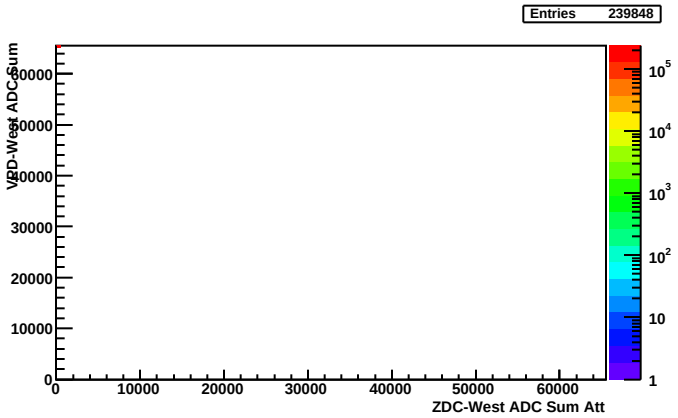
VPD-East ADC Sum
ZDC-East ADC Sum Att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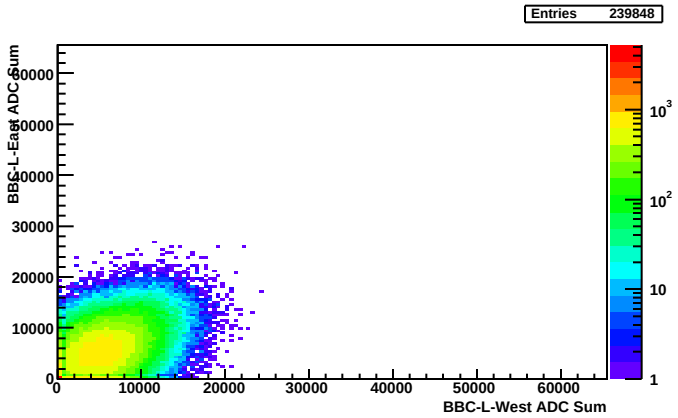
ZDC-West ADC Sum Att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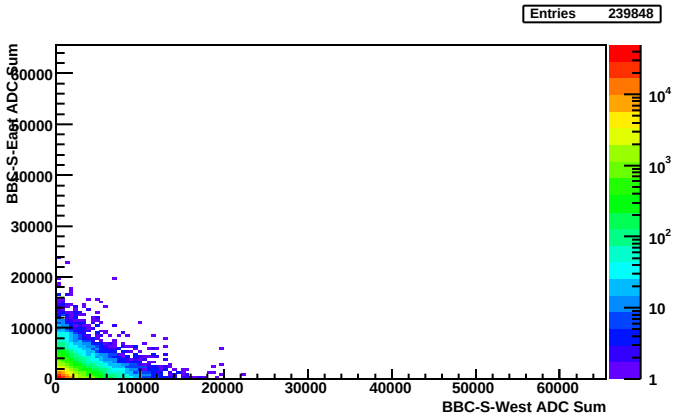
BBC-L-East ADC Sum
BBC-L-West ADC Sum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BBC-S-East ADC Sum
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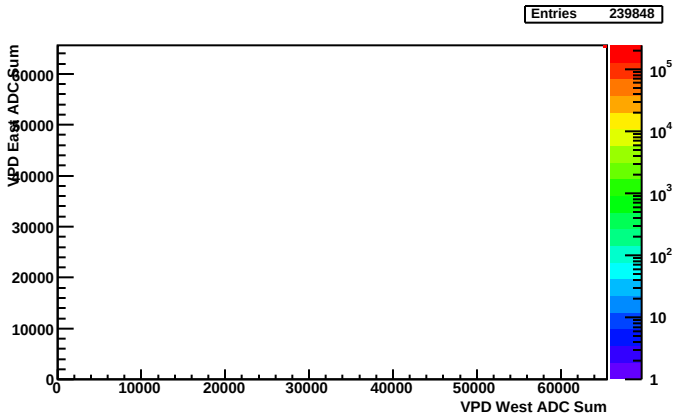
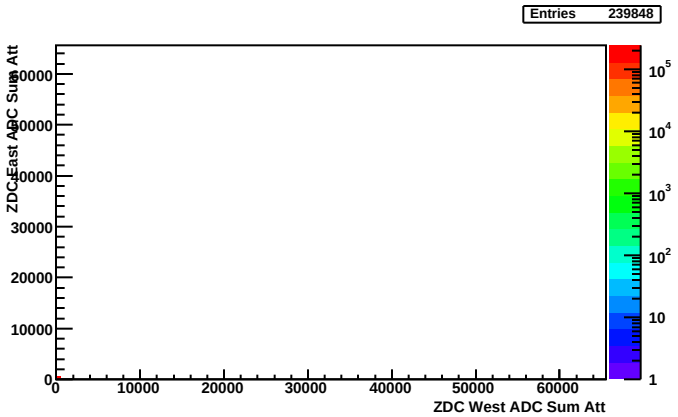
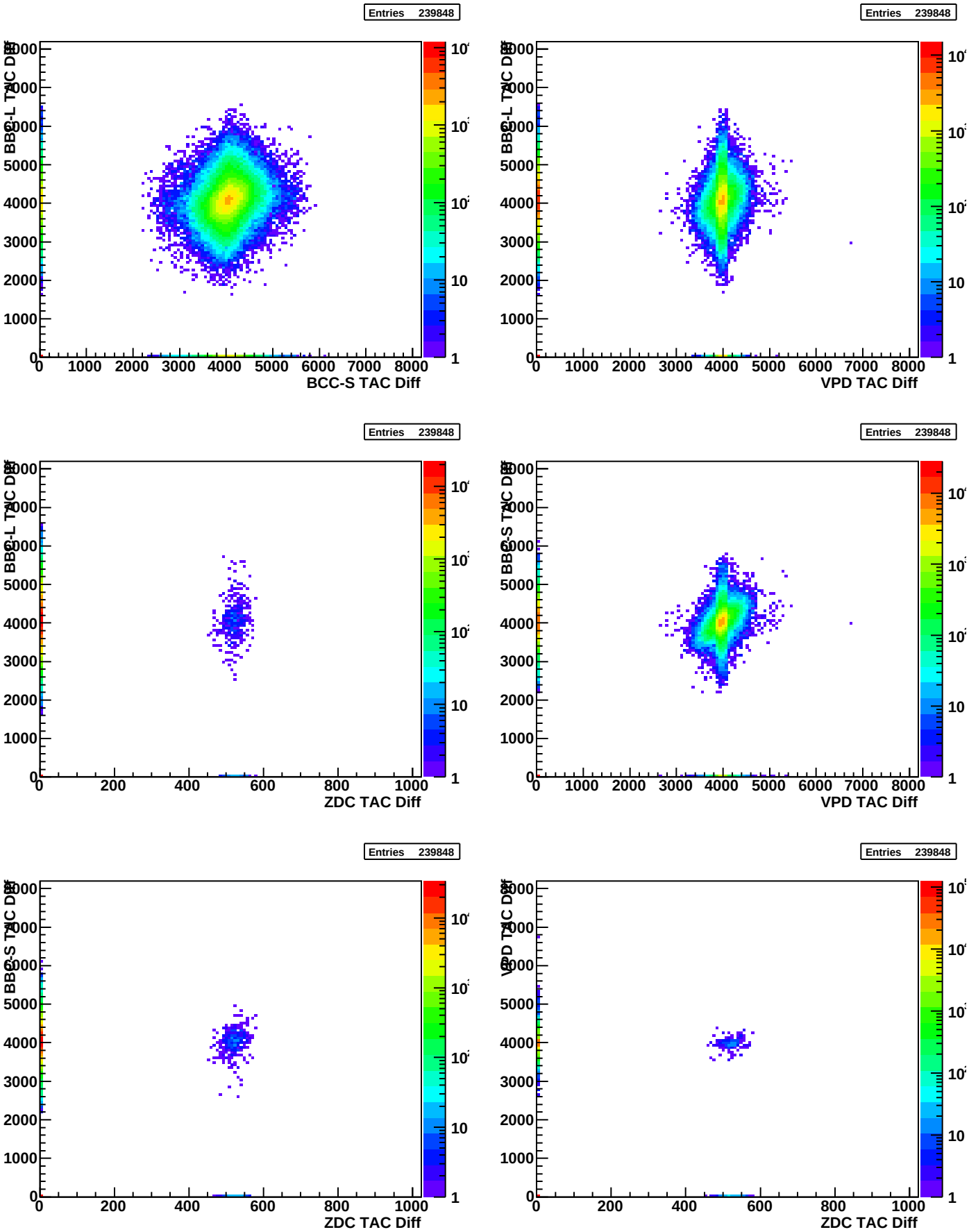
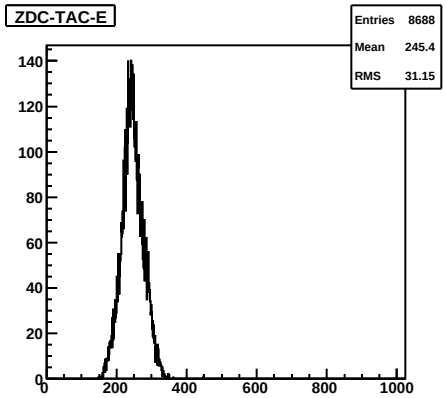
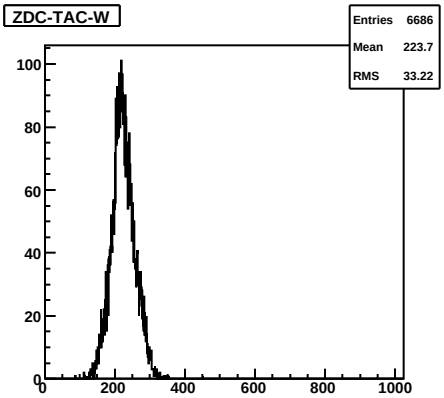
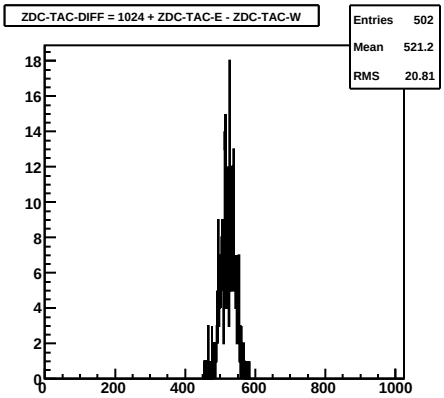

Entries 239848
VPD East ADC Sum
VPD West ADC Sum

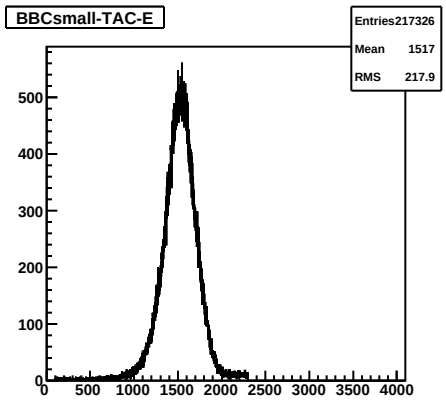

Entries 239848
ZDC East ADC Sum Att
ZDC West ADC Sum Att

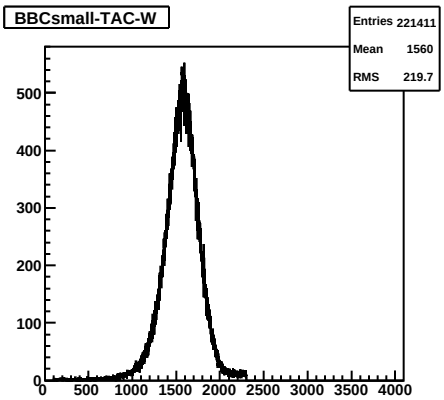

Entries 239848
BBC-L TAC Diff
BCC-S TAC Diff
Entries 239848
BBC-L TAC Diff
VPD TAC Diff
Entries 239848
BBC-L TAC Diff
ZDC TAC Diff
Entries 239848
BBC-S TAC Diff
VPD TAC Diff
Entries 239848
BBC-S TAC Diff
ZDC TAC Diff
Entries 239848
VPD TAC Diff
ZDC TAC Diff

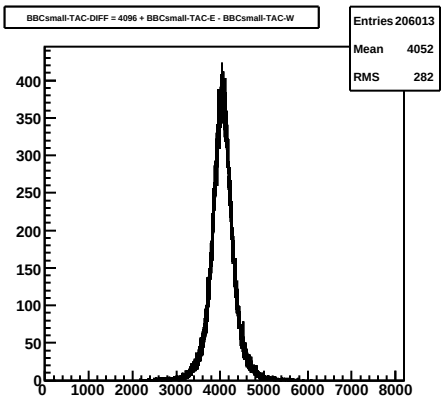

ZDC-TAC-E
Entries 8688
Mean 245.4
RMS 31.15

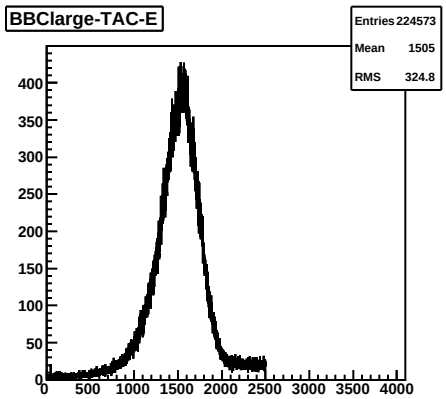

ZDC-TAC-W
Entries 6686
Mean 223.7
RMS 33.22

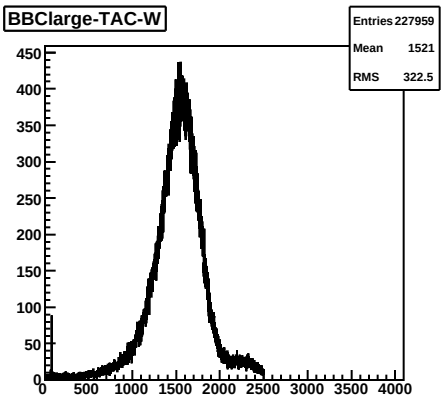

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 502
Mean 521.2
RMS 20.81

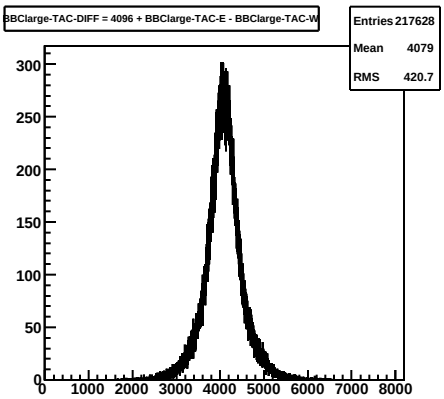

BBCsmall-TAC-E
Entries 217326
Mean 1517
RMS 217.9

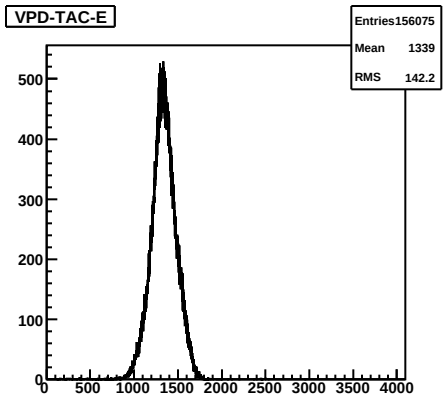

BBCsmall-TAC-W
Entries 221411
Mean 1560
RMS 219.7

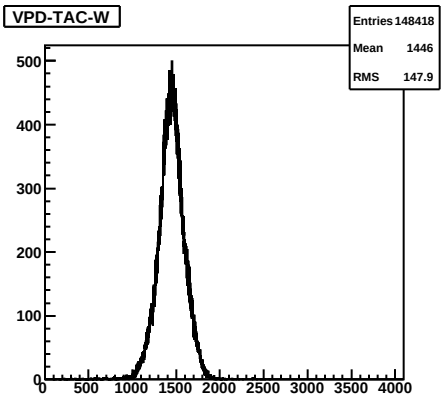

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 206013
Mean 4052
RMS 282

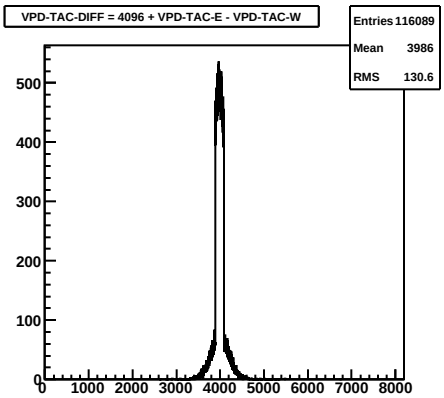

BBClarge-TAC-E
Entries 224573
Mean 1505
RMS 324.8

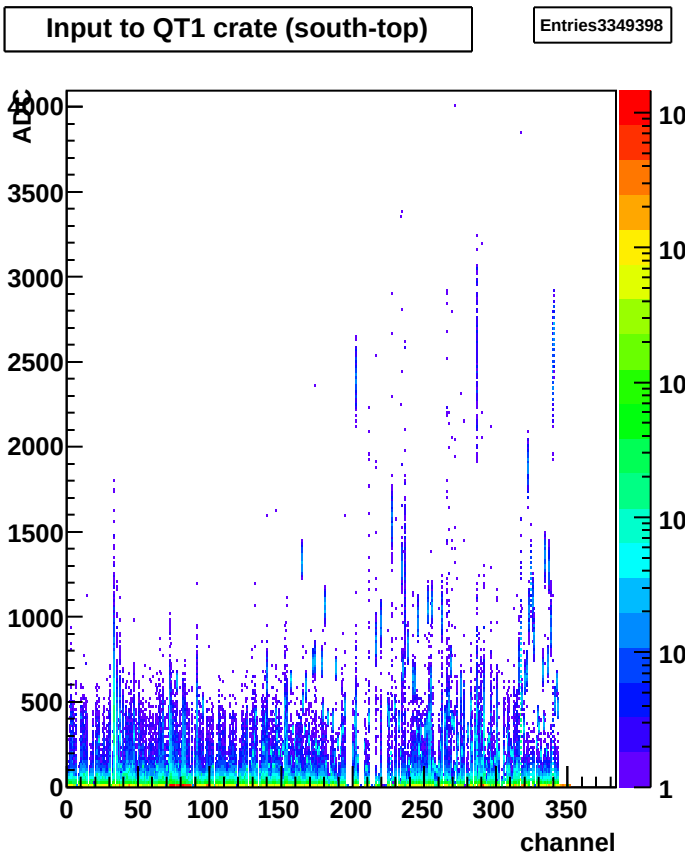

BBClarge-TAC-W
Entries 227959
Mean 1521
RMS 322.5

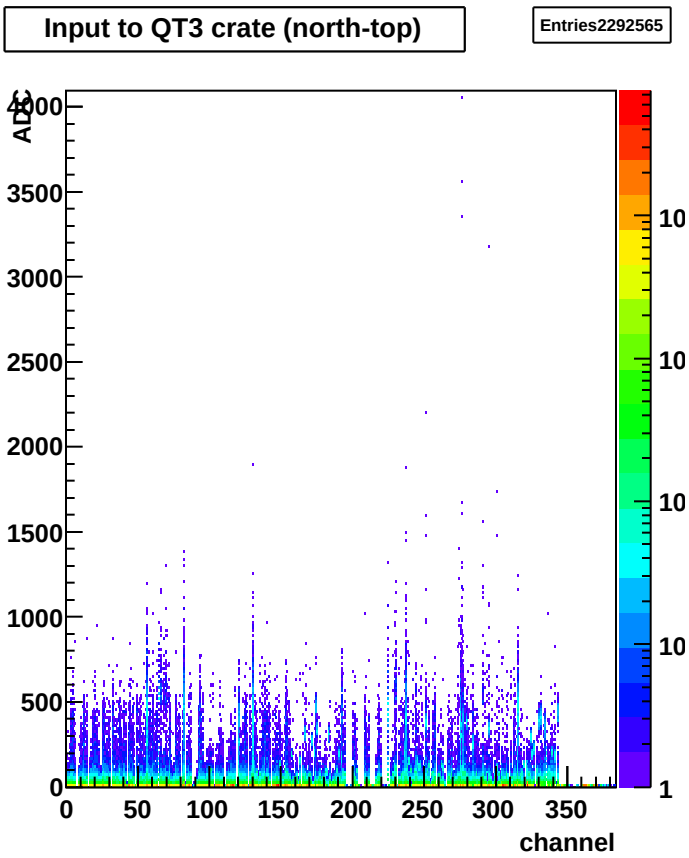

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 217628
Mean 4079
RMS 420.7

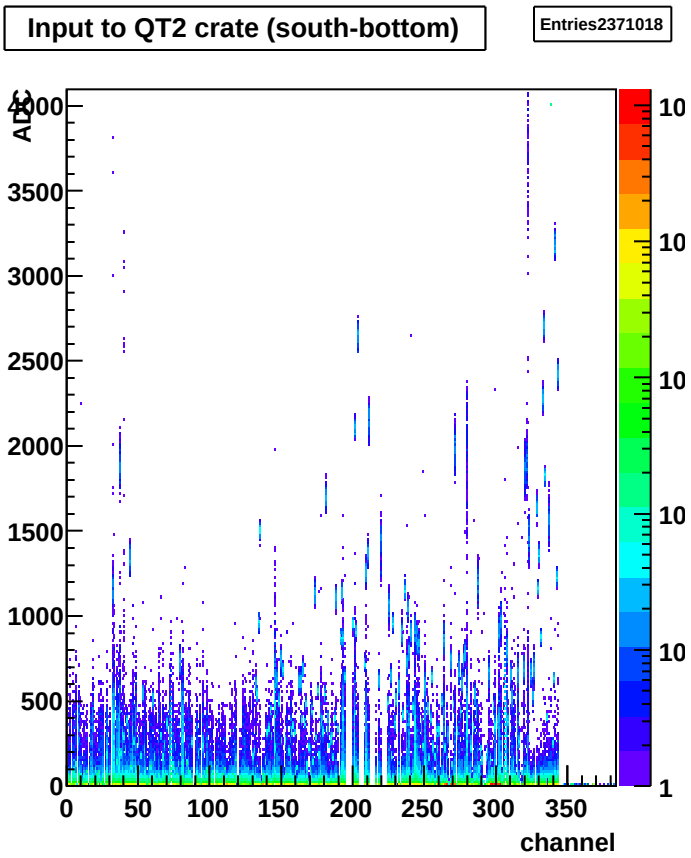

VPD-TAC-E
Entries 156075
Mean 1339
RMS 142.2

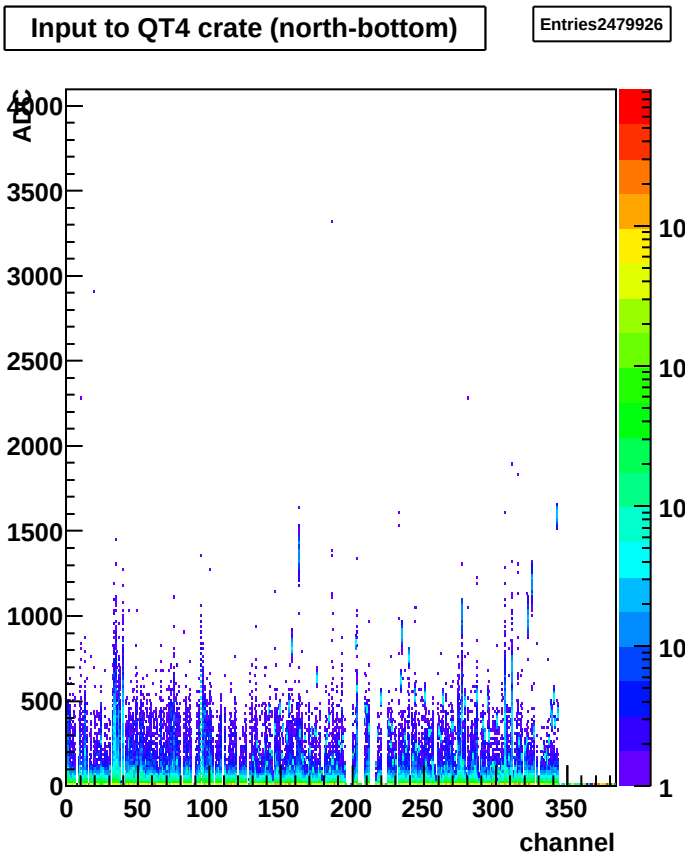

VPD-TAC-W
Entries 148418
Mean 1446
RMS 147.9

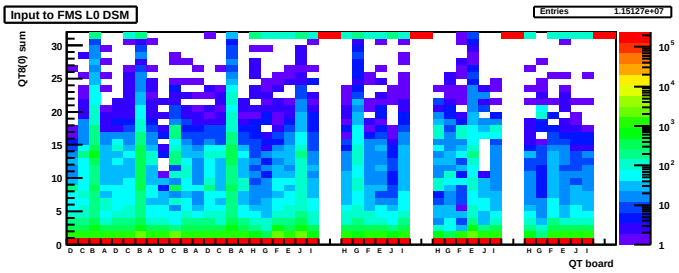

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 116089
Mean 3986
RMS 130.6

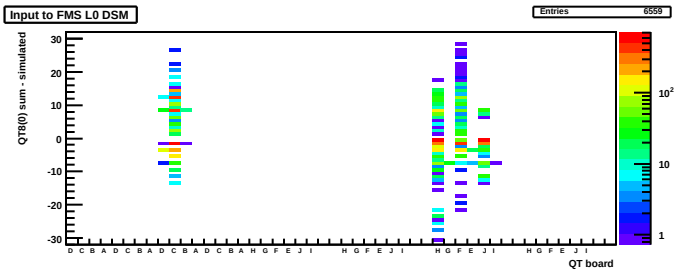

Input to QT1 crate (south-top)
Entries3349398
ADC
channel

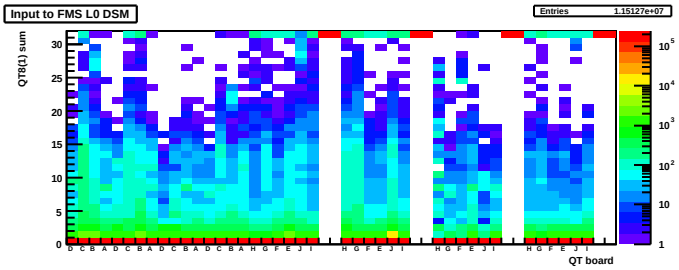

Input to QT3 crate (north-top)
Entries2292565
ADC
channel

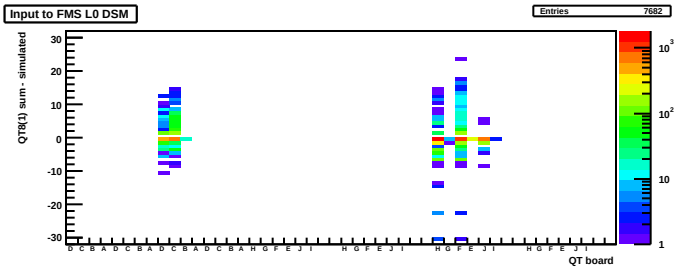

Input to QT2 crate (south-bottom)
Entries2371018
ADC
channel

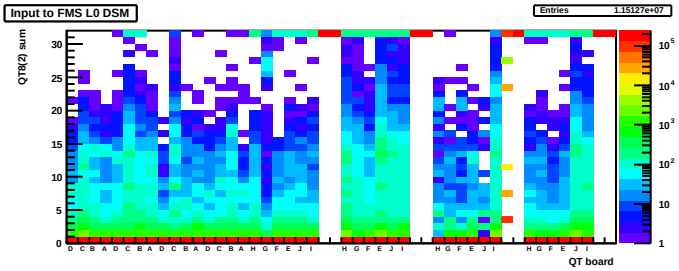

Input to QT4 crate (north-bottom)
Entries2479926
ADC
channel

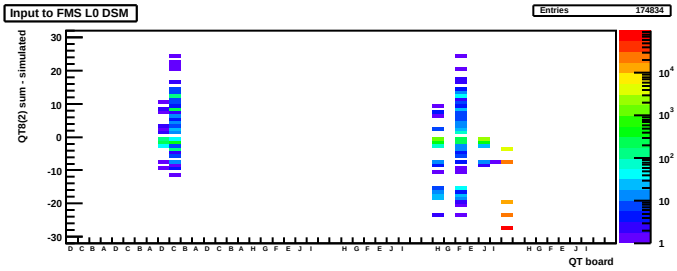

Input to FMS L0 DSM
Entries 1.15127e+07
QT8(0) sum
QT board

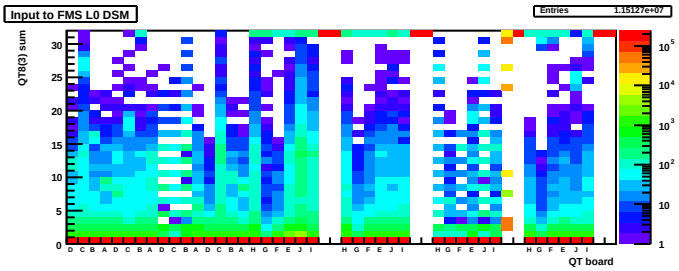

Input to FMS L0 DSM
Entries 6559
QT8(0) sum - simulated
QT board

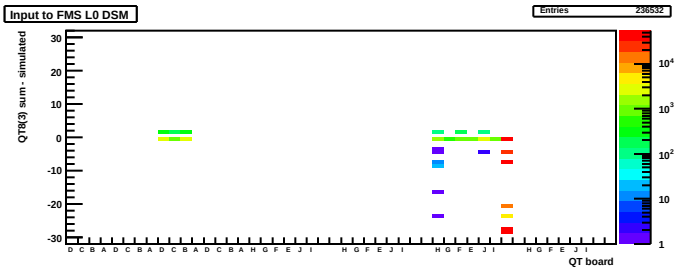

Input to FMS L0 DSM
Entries 1.15127e+07
QT8(1) sum
QT board

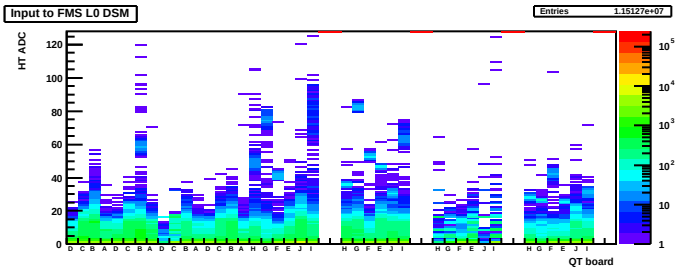

Input to FMS L0 DSM
Entries 7682
QT8(1) sum - simulated
QT board

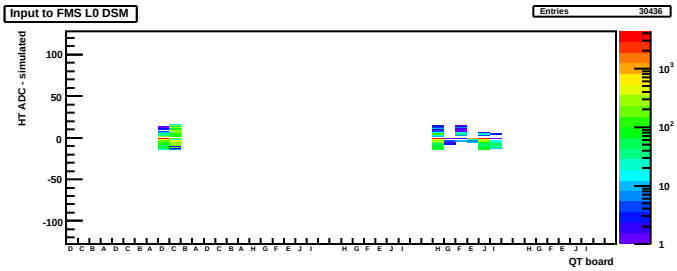

Input to FMS L0 DSM
Entries 1.15127e+07
QT8(2) sum
QT board

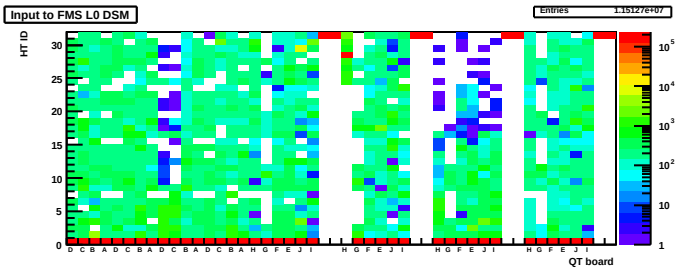

Input to FMS L0 DSM
Entries 174834
QT8(2) sum - simulated
QT board

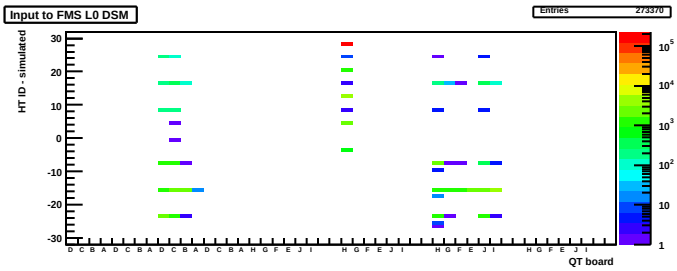

Input to FMS L0 DSM
Entries 1.15127e+07
QT8(3) sum
QT board

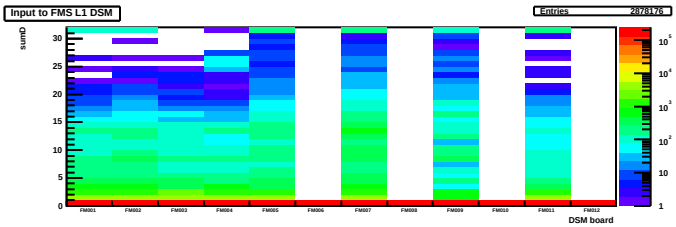

Input to FMS L0 DSM
Entries 236532
QT8(3) sum - simulated
QT board

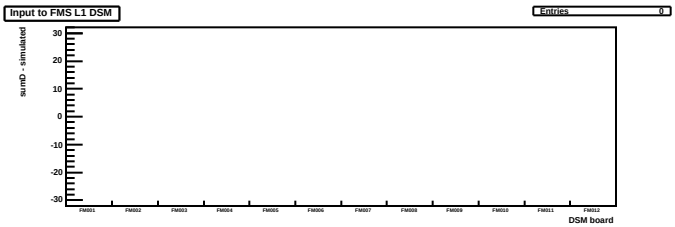

Input to FMS L0 DSM
Entries 1.15127e+07
HT ADC
QT board

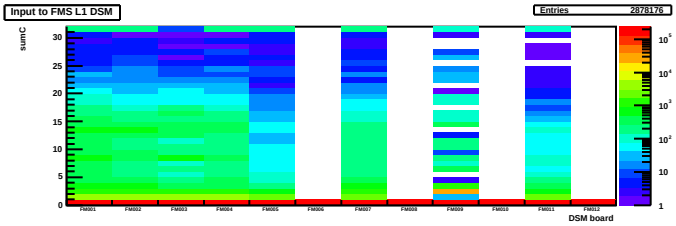

Input to FMS L0 DSM
Entries 30436
HT ADC - simulated
QT board

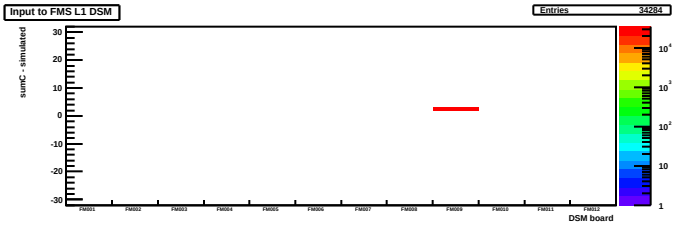

Input to FMS L0 DSM
Entries 1.15127e+07
HT ID
QT board

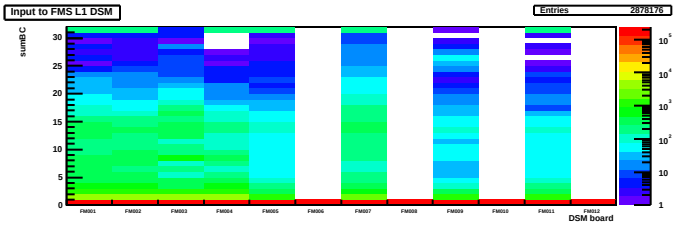

Input to FMS L0 DSM
Entries 273370
HT ID - simulated
QT board

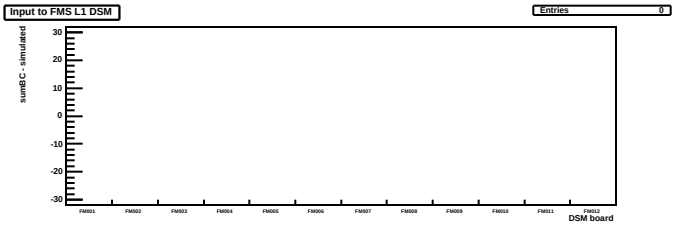

Input to FMS L1 DSM
Entries 2878176
sumD
DSM board

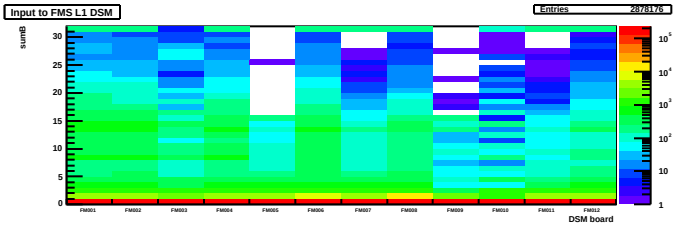

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

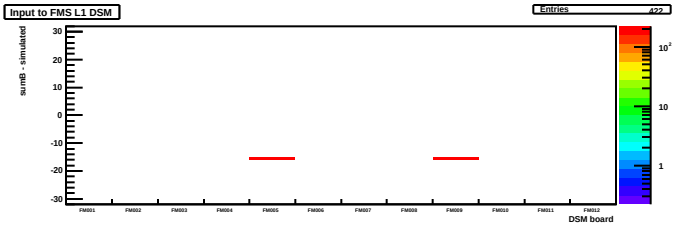

Input to FMS L1 DSM
Entries 2878176
sumC
DSM board

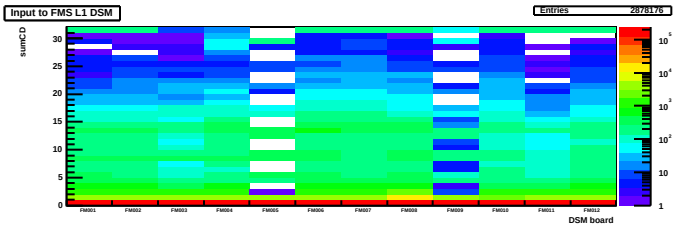

Input to FMS L1 DSM
Entries 34284
sumC - simulated
DSM board

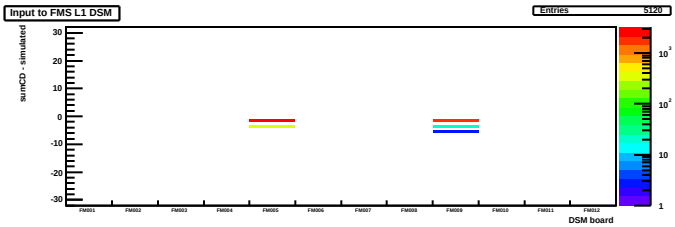

Input to FMS L1 DSM
Entries 2878176
sumBC
DSM board

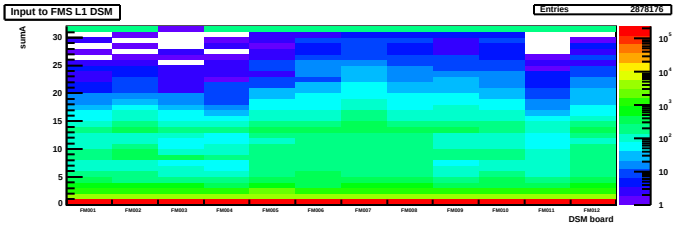

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

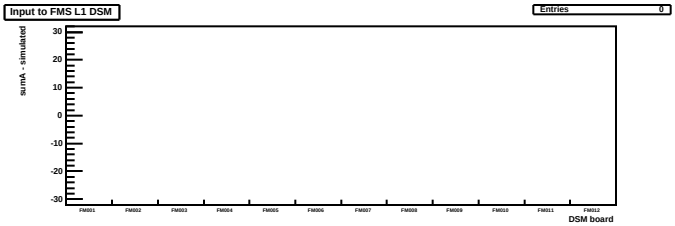

Input to FMS L1 DSM
Entries 2878176
sumB
DSM board

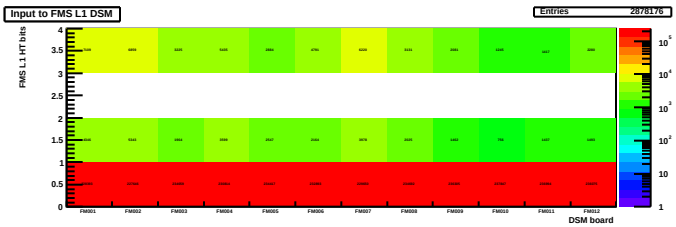

Input to FMS L1 DSM
Entries 422
sumB - simulated
DSM board

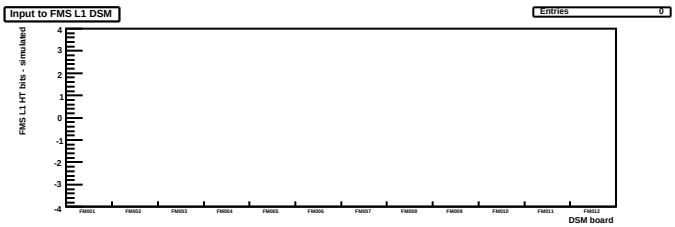

Input to FMS L1 DSM
Entries 2878176
sumCD
DSM board

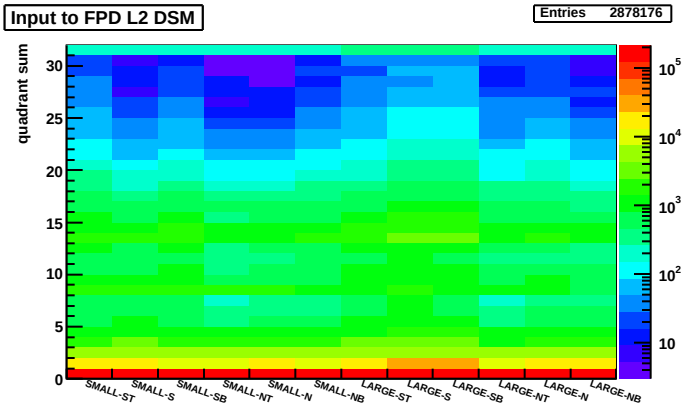

Input to FMS L1 DSM
Entries 5120
sumCD - simulated
DSM board

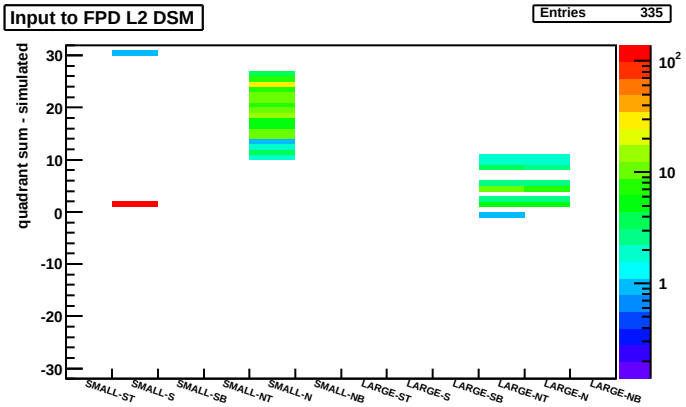

Input to FMS L1 DSM
Entries 2878176
sumA
DSM board

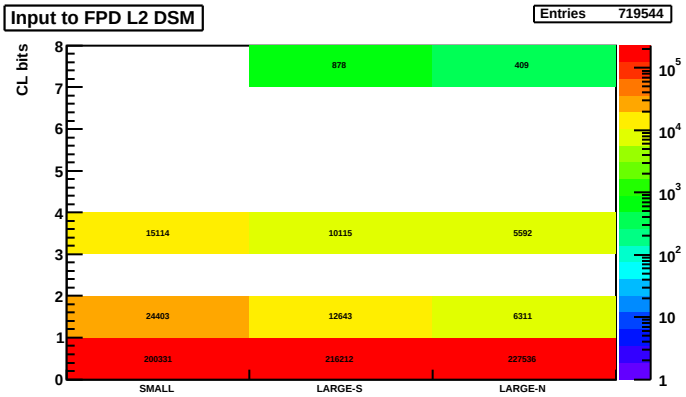

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

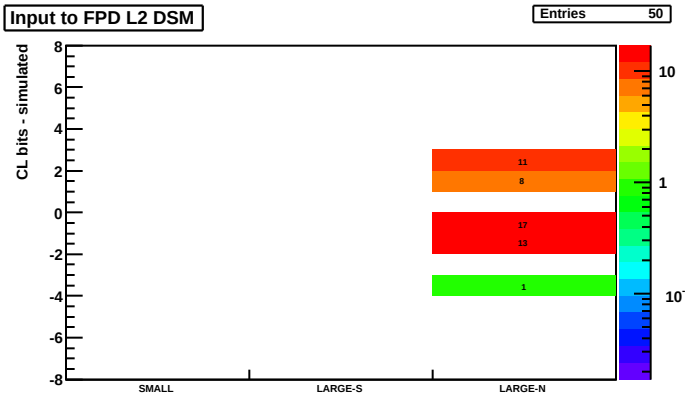

Input to FMS L1 DSM
Entries 2878176
FMS L1 HT bits
DSM board

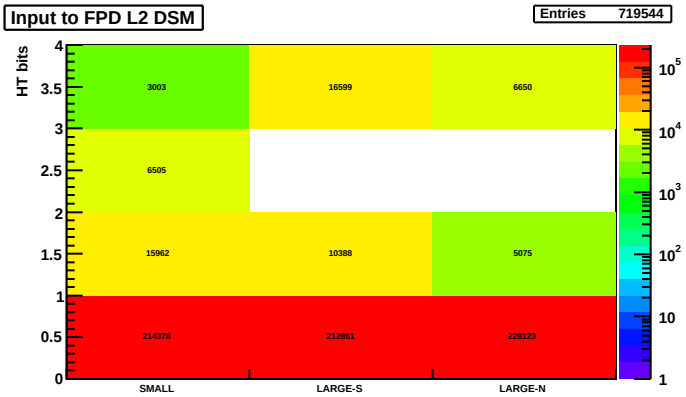

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

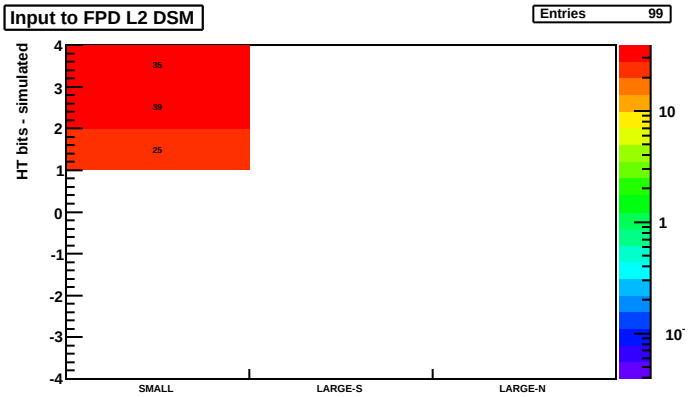

Input to FPD L2 DSM
Entries 2878176
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

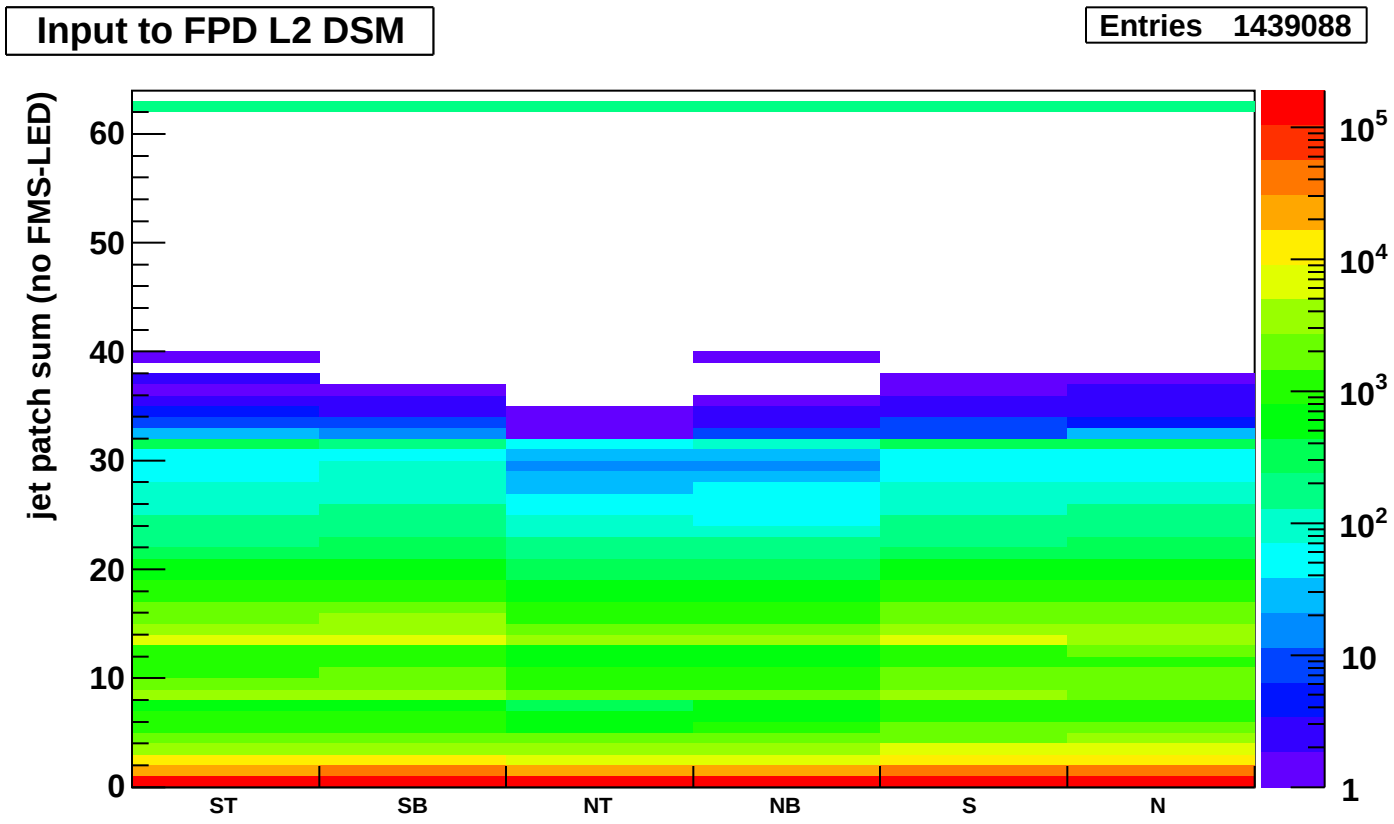

Input to FPD L2 DSM
Entries 335
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

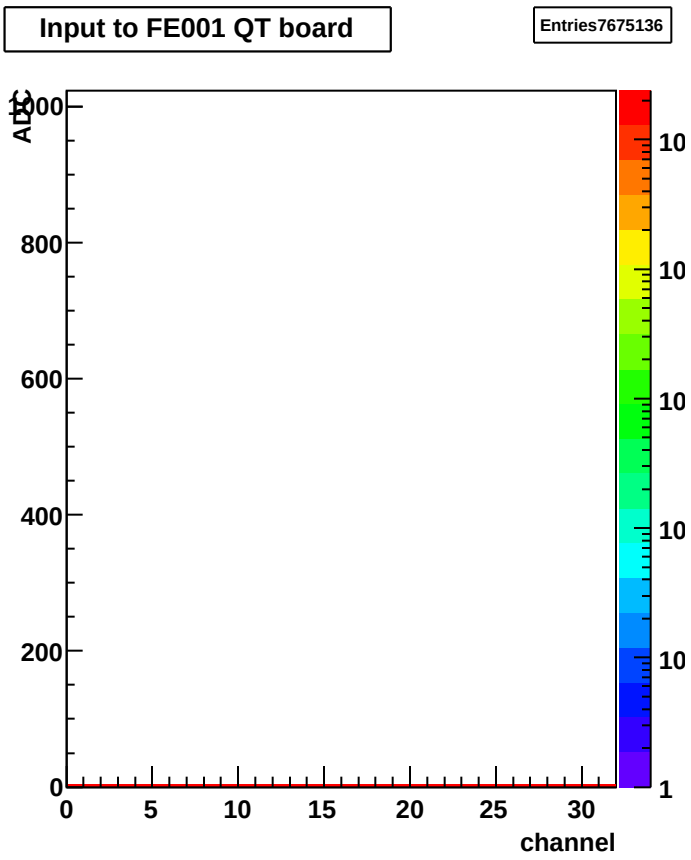

Input to FPD L2 DSM
Entries 719544
CL bits
878
409
15114
10115
5592
24403
12643
6311
200331
216212
227536
SMALL
LARGE-S
LARGE-N

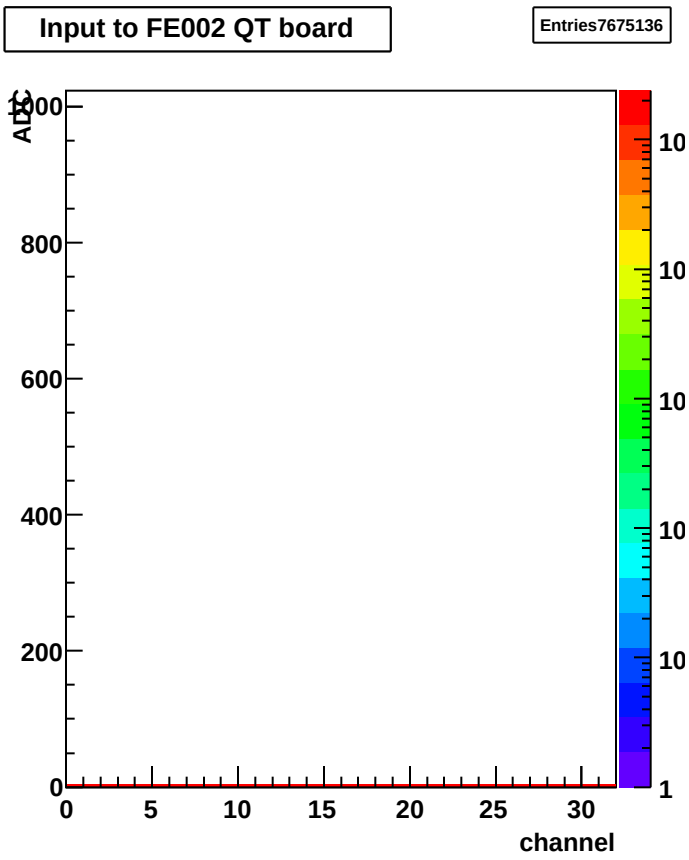

Input to FPD L2 DSM
Entries 50
CL bits - simulated
11
8
17
13
1
SMALL
LARGE-S
LARGE-N

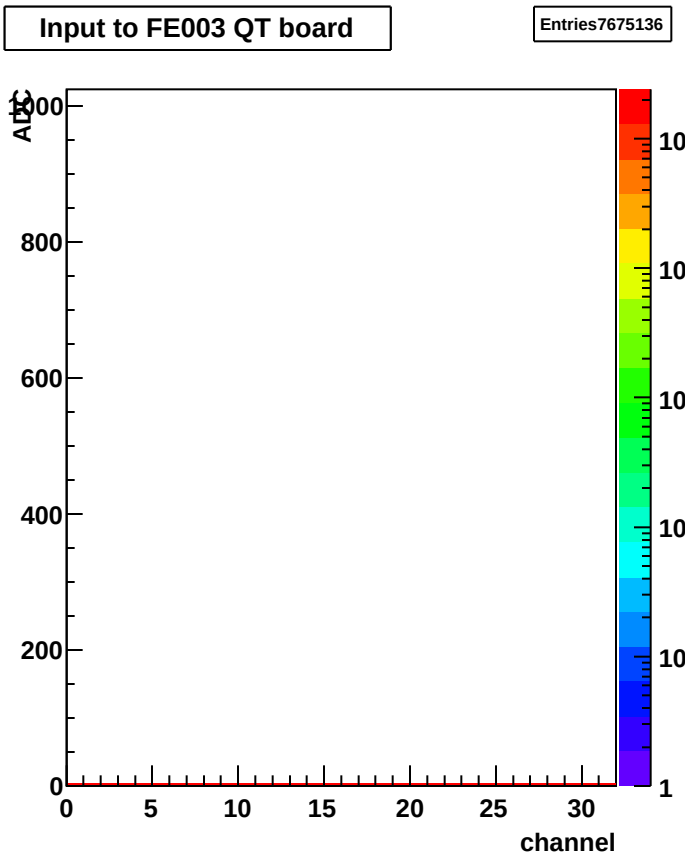

Input to FPD L2 DSM
Entries 719544
HT bits
3003
16599
6650
6505
15962
10388
5075
214378
212861
228123
SMALL
LARGE-S
LARGE-N

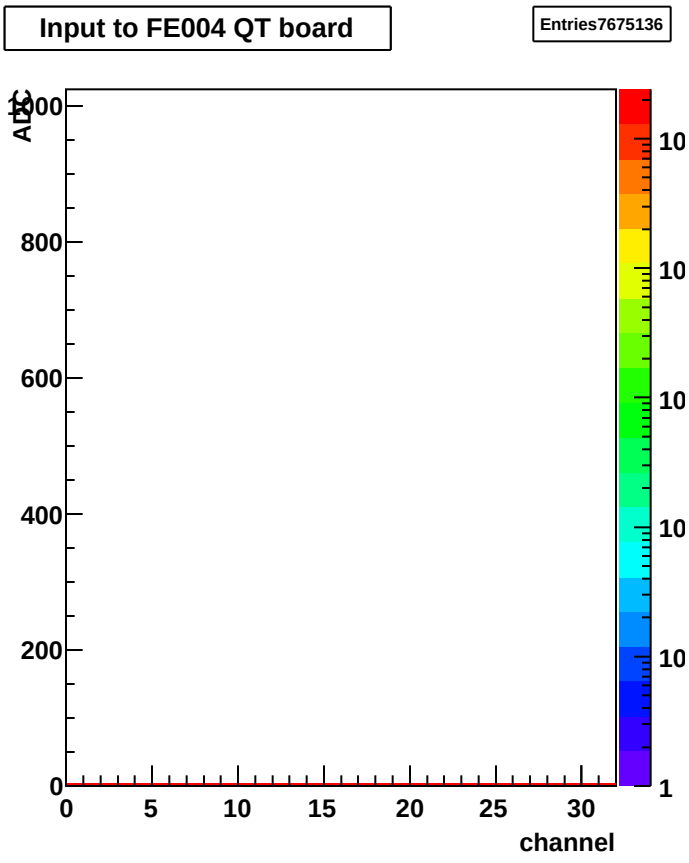

Input to FPD L2 DSM
Entries 99
HT bits - simulated
35
39
25
SMALL
LARGE-S
LARGE-N

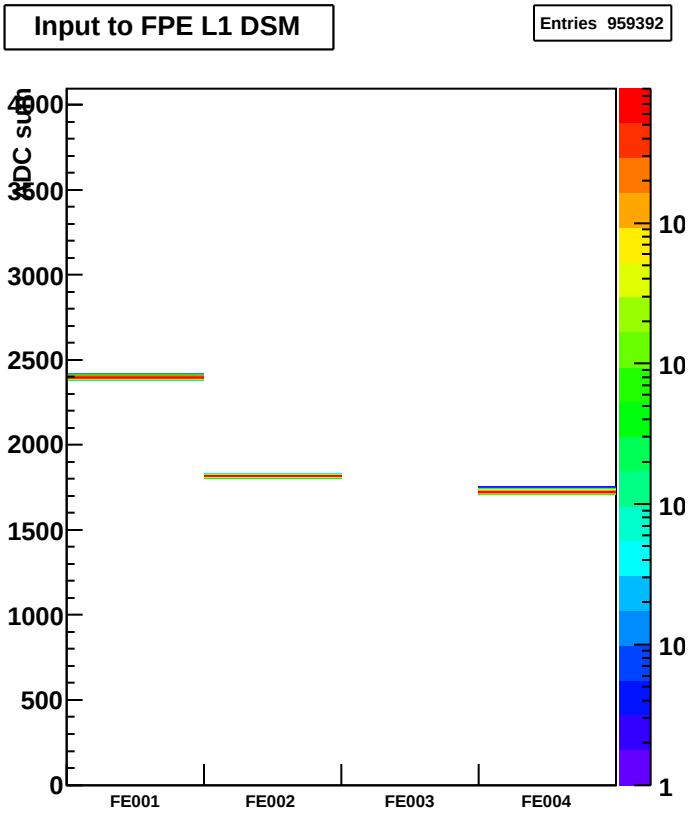

Input to FPD L2 DSM
Entries 1439088
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
$10^2$
$10^3$
$10^4$
$10^5$

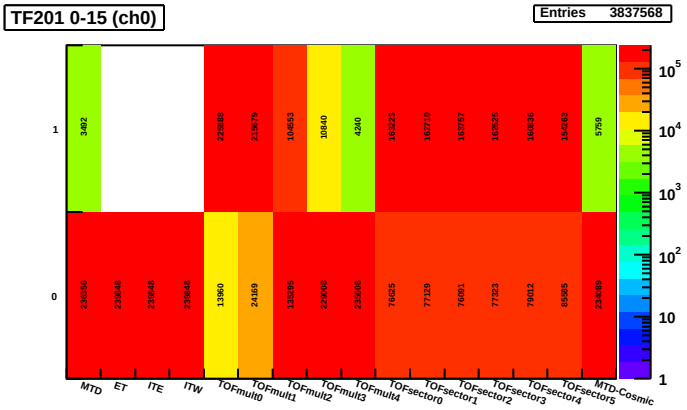

Input to FE001 QT board
Entries7675136
ADC
channel

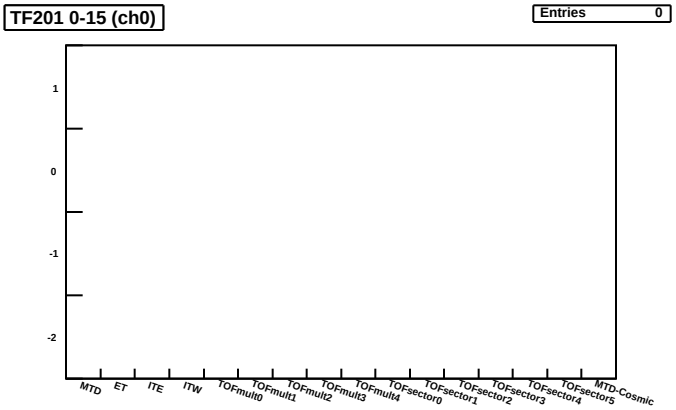

Input to FE002 QT board
Entries7675136
ADC
channel

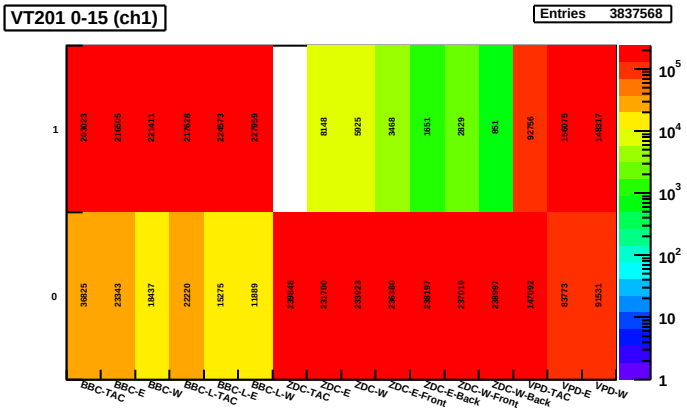

Input to FE003 QT board
Entries7675136
ADC
channel

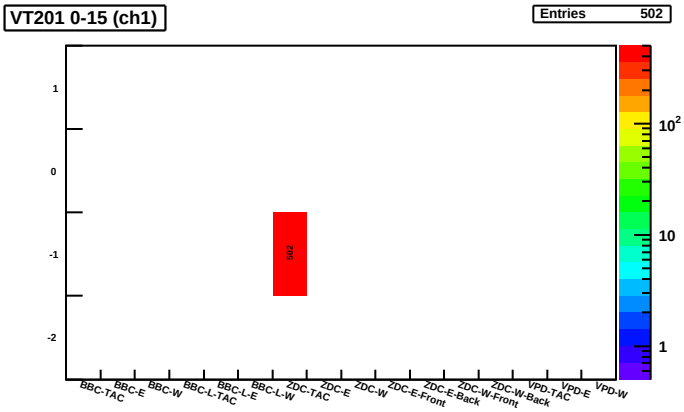

Input to FE004 QT board
Entries7675136
ADC
channel

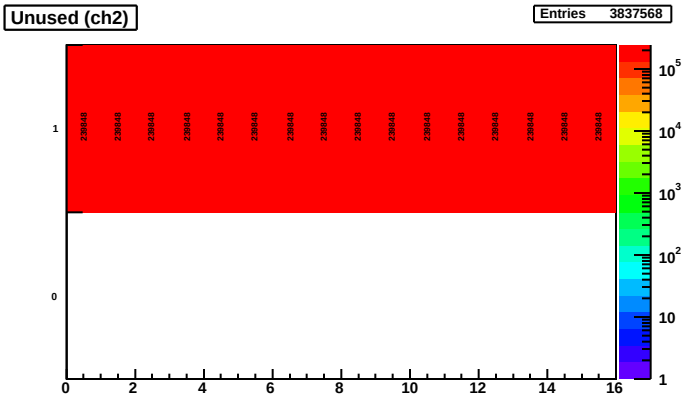

Input to FPE L1 DSM
Entries 959392
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

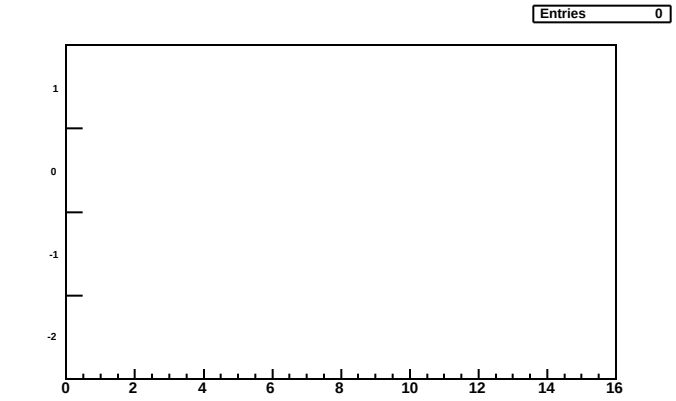

TF201 0-15 (ch0)
Entries 3837568
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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 3837568
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 502
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 3837568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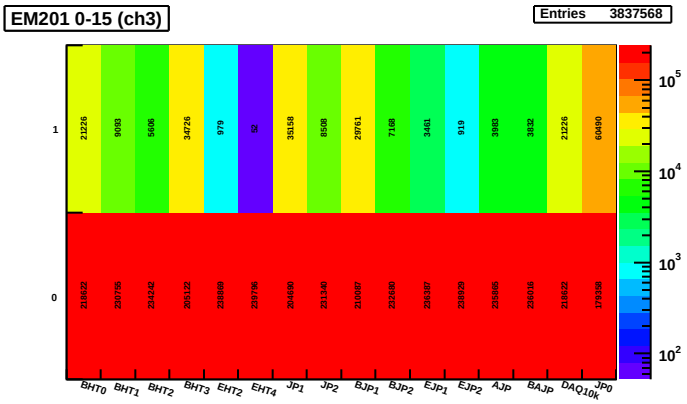
EM201 0-15 (ch3)
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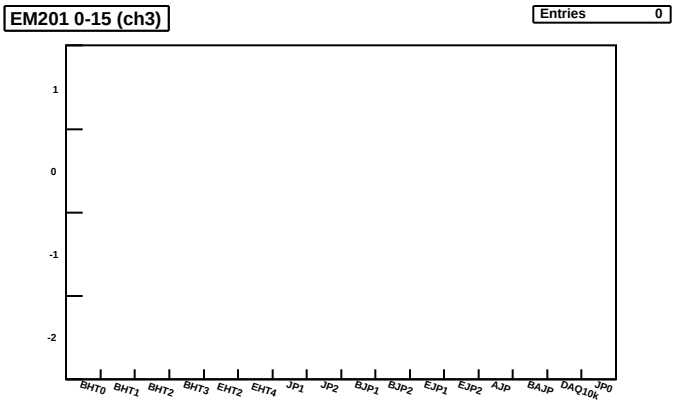
EM201 0-15 (ch3)
Entries 0
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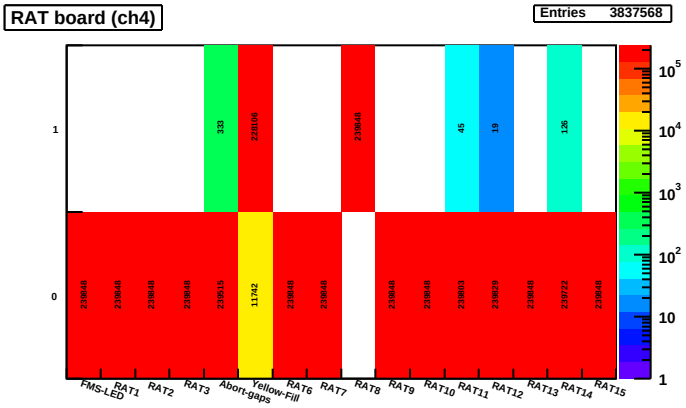
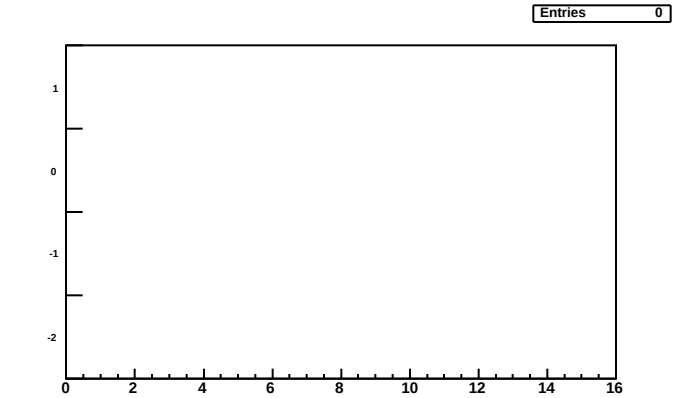
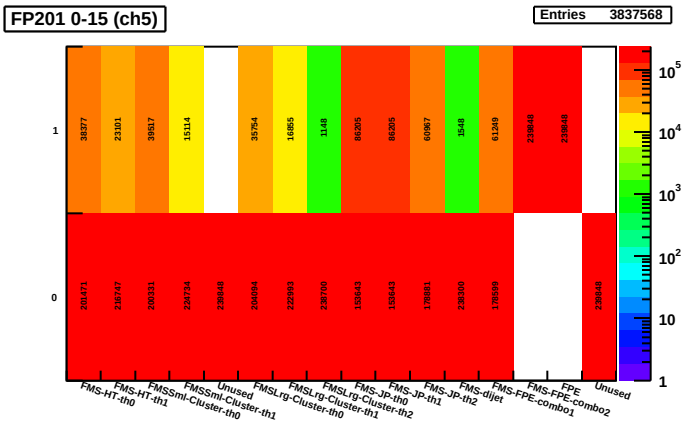
**RAT board (ch4)**

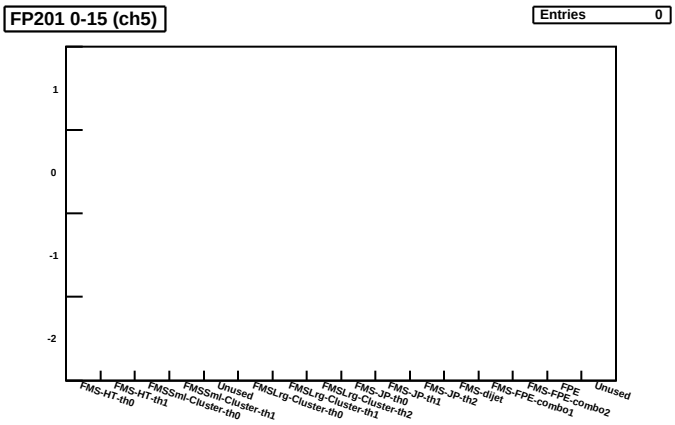


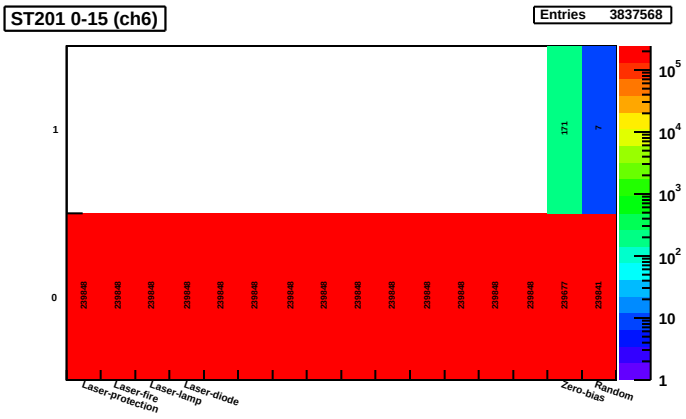

**FP201 0-15 (ch5)**

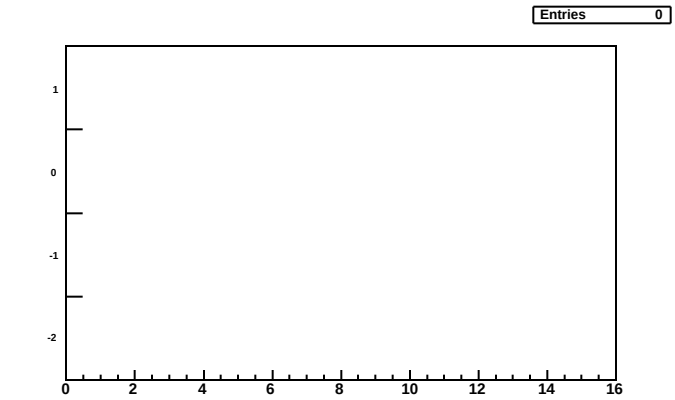


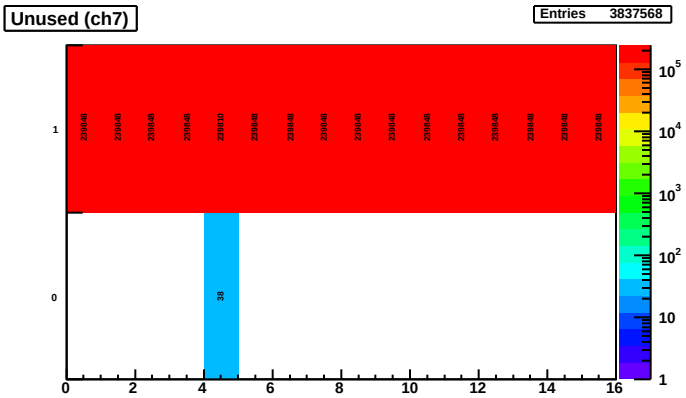
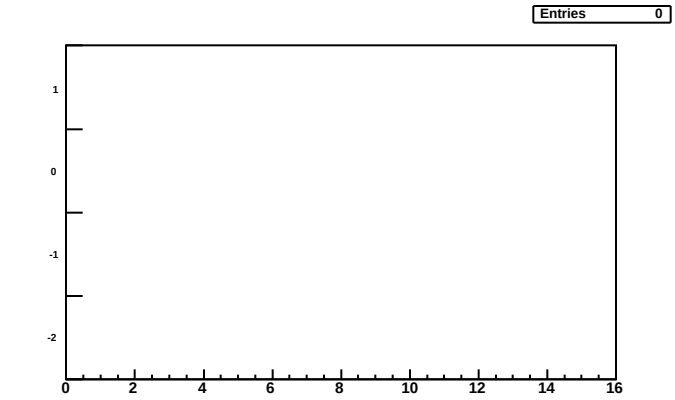

**FP201 0-15 (ch5)**




**ST201 0-15 (ch6)**




**Unused (ch7)**