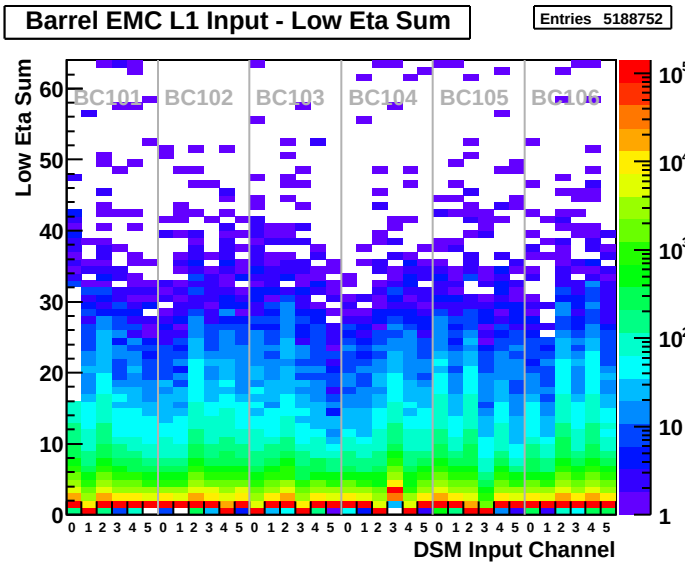
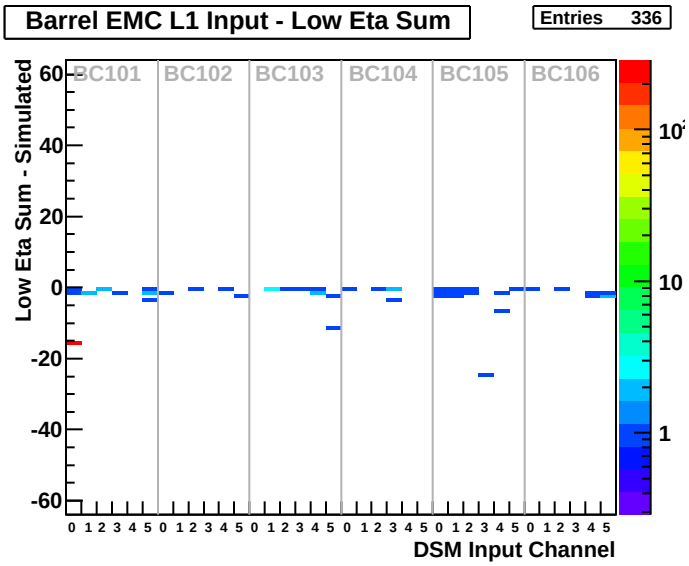
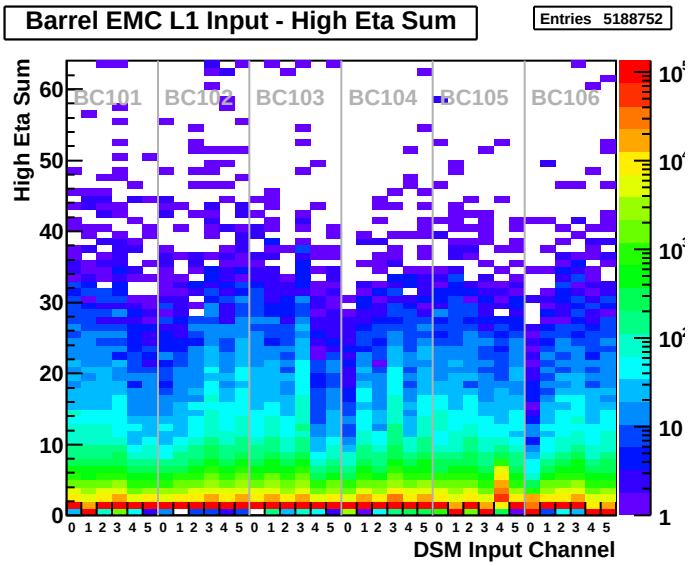
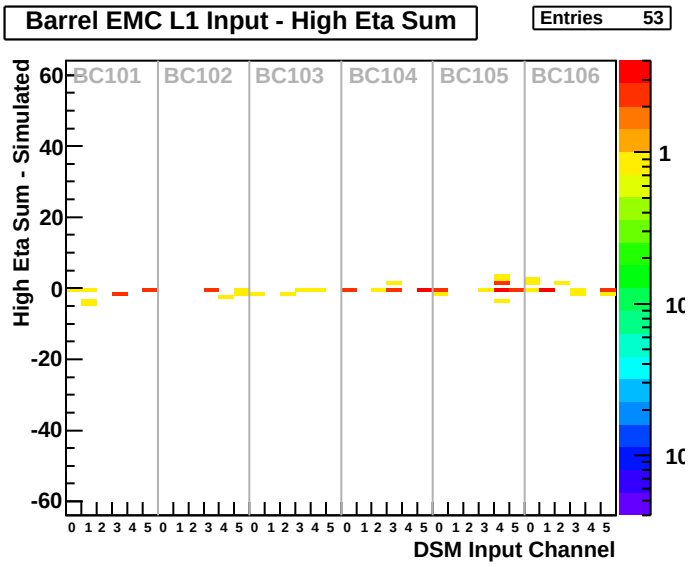
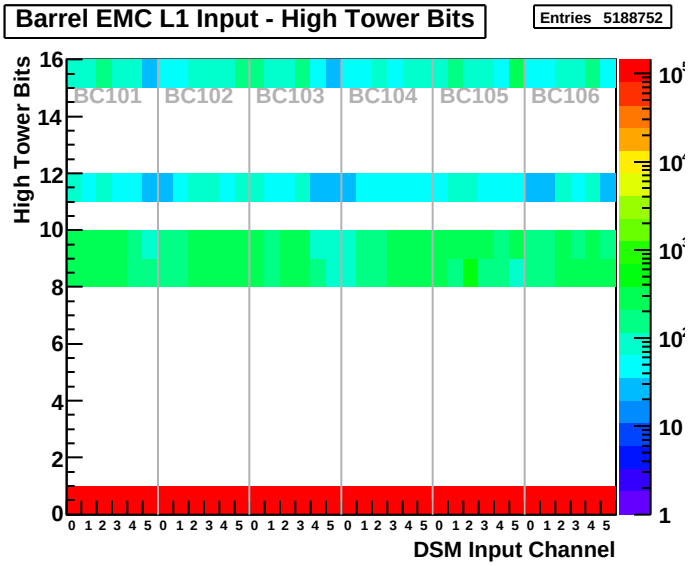
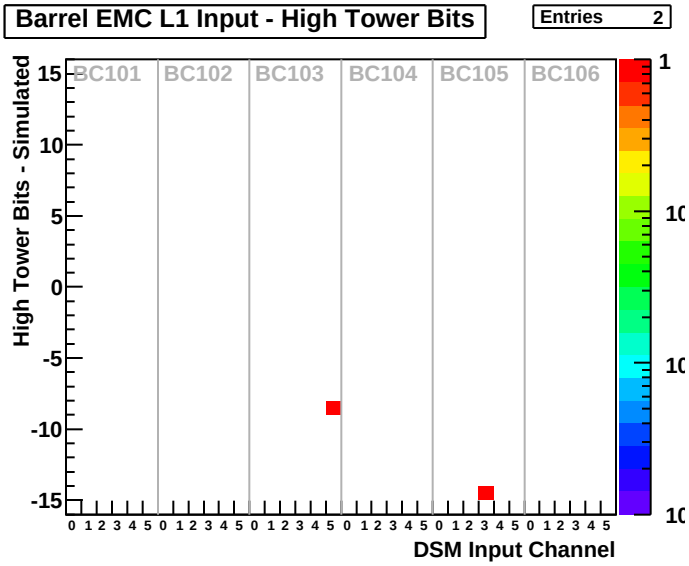

Barrel EMC L1 Input - Low Eta Sum
Entries 5188752
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

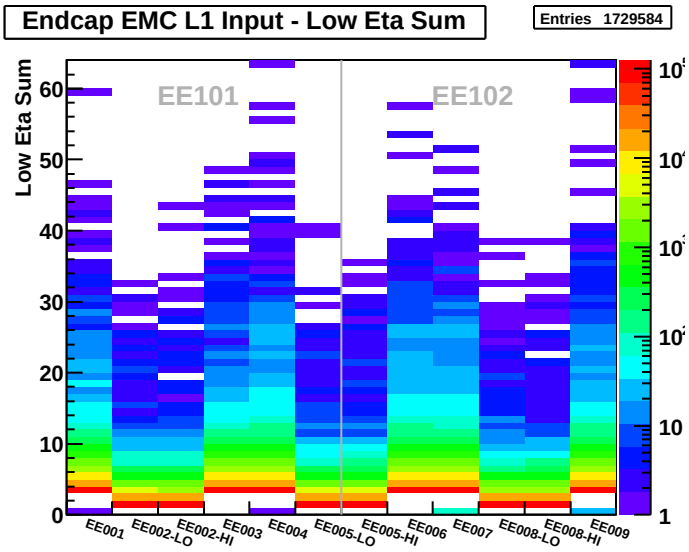

Barrel EMC L1 Input - Low Eta Sum
Entries 336
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

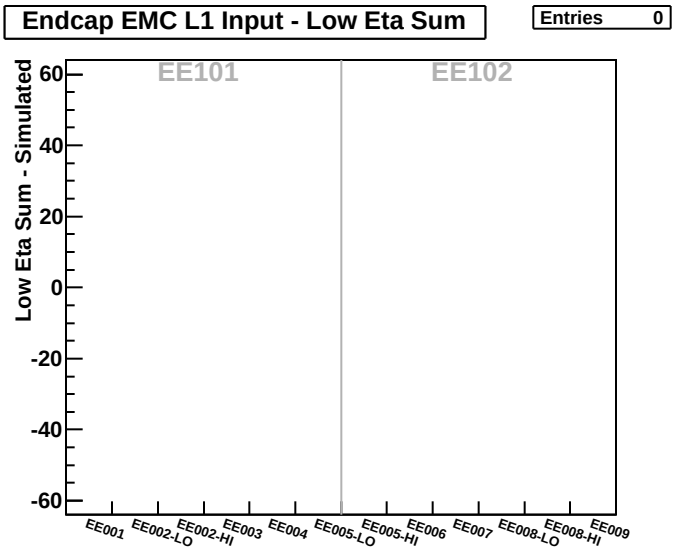

Barrel EMC L1 Input - High Eta Sum
Entries 5188752
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

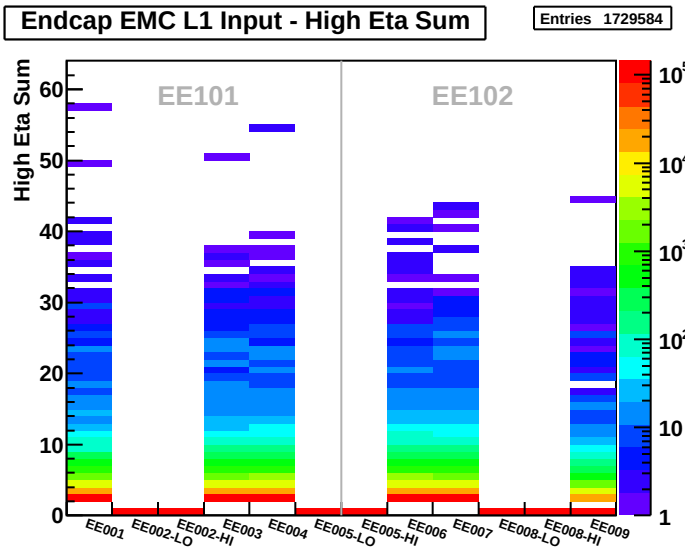

Barrel EMC L1 Input - High Eta Sum
Entries 53
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

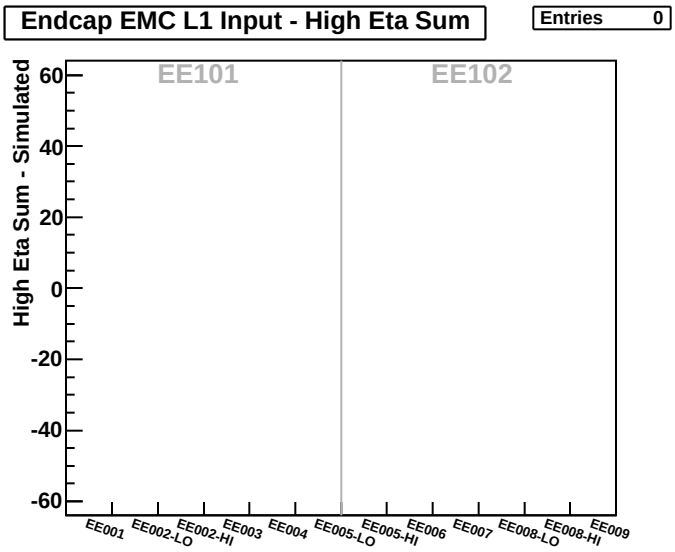

Barrel EMC L1 Input - High Tower Bits
Entries 5188752
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

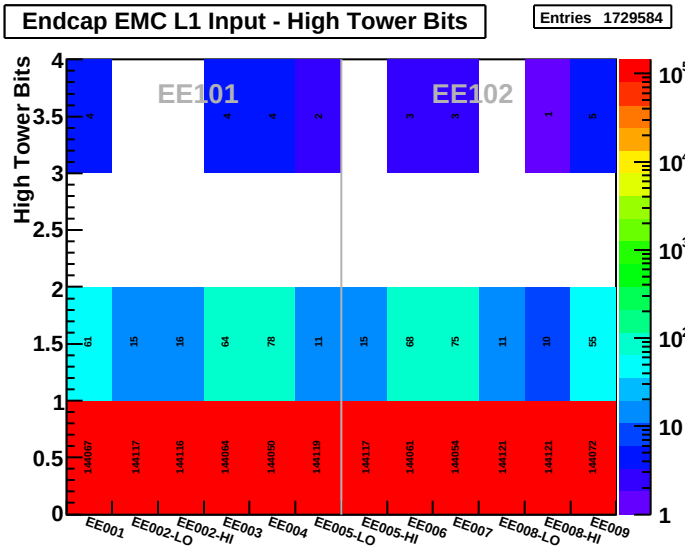

Barrel EMC L1 Input - High Tower Bits
Entries 2
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

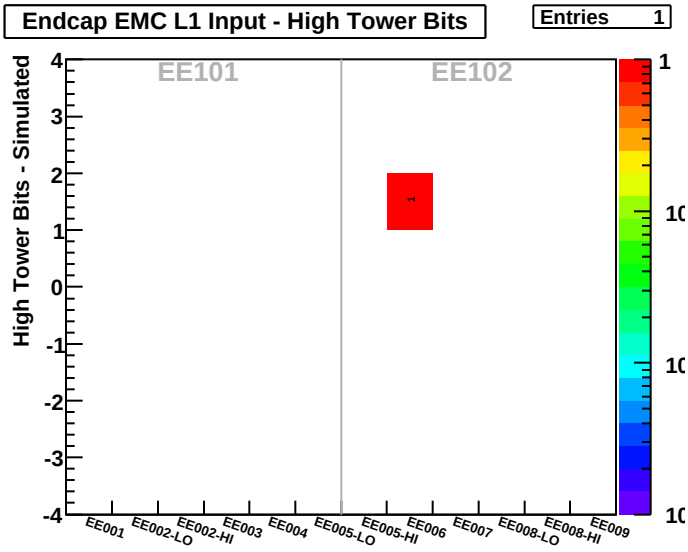

Endcap EMC L1 Input - Low Eta Sum
Entries 1729584
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

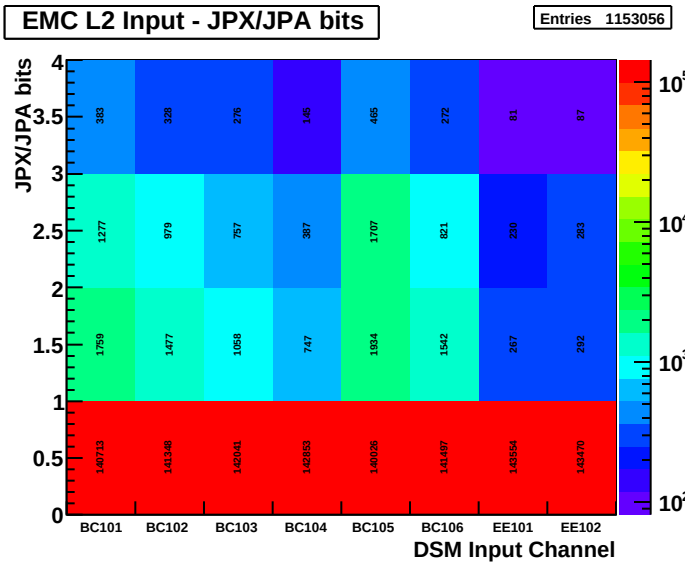

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

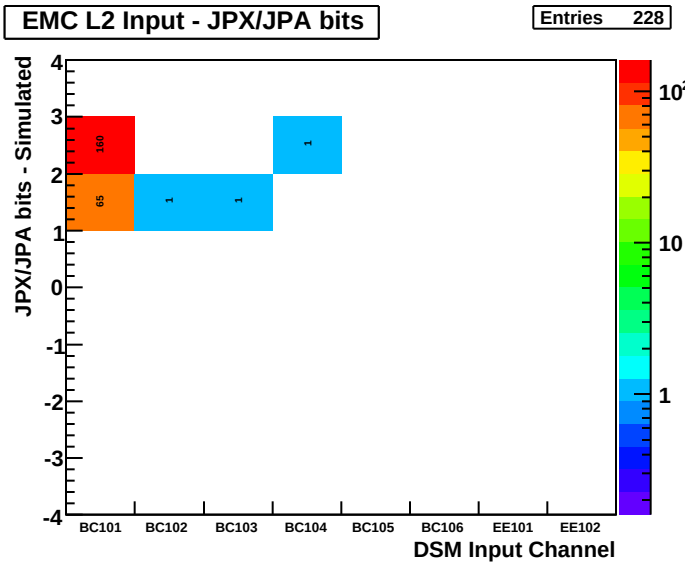

Endcap EMC L1 Input - High Eta Sum
Entries 1729584
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

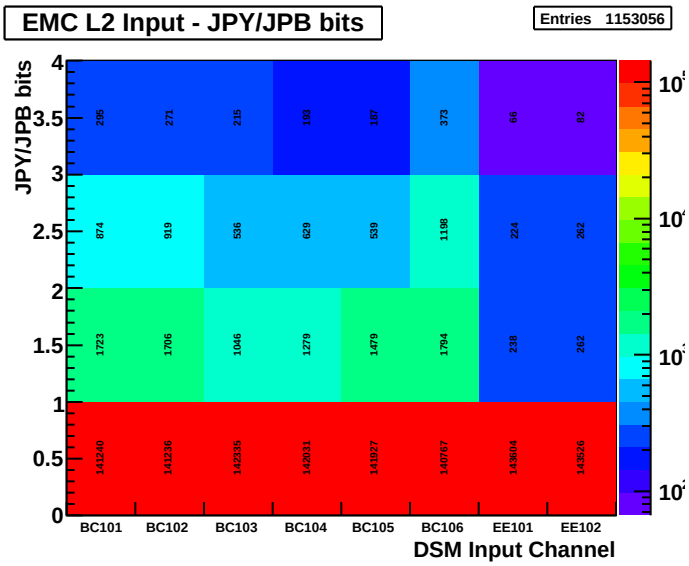

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

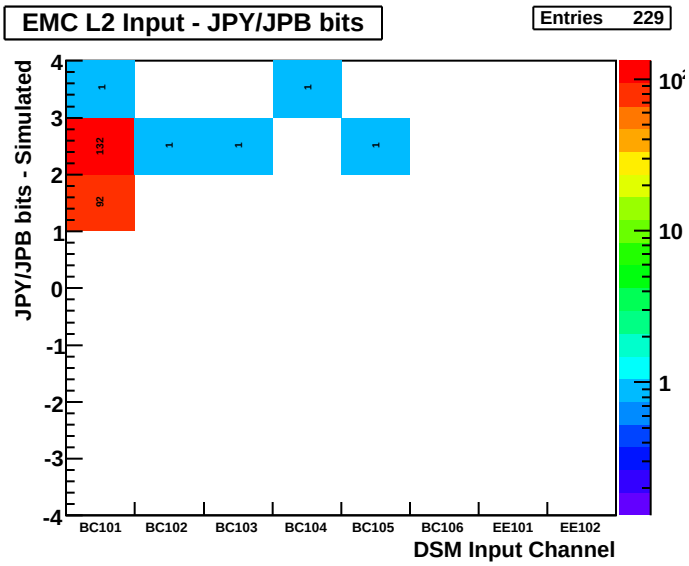

Endcap EMC L1 Input - High Tower Bits
Entries 1729584
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

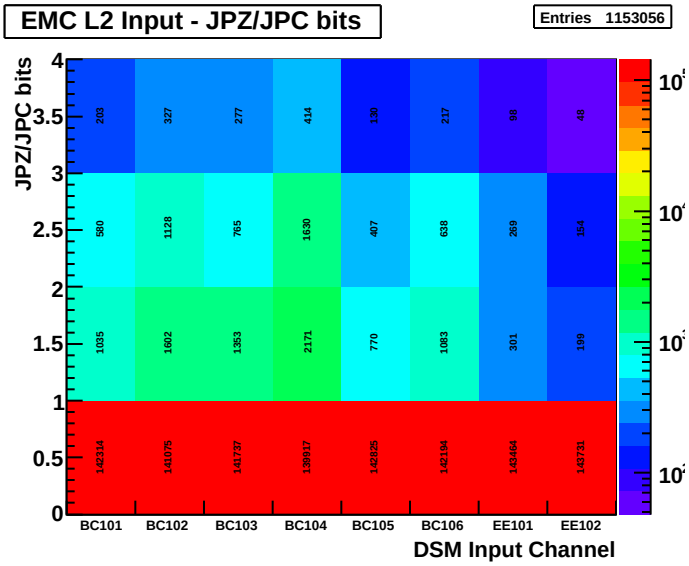

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

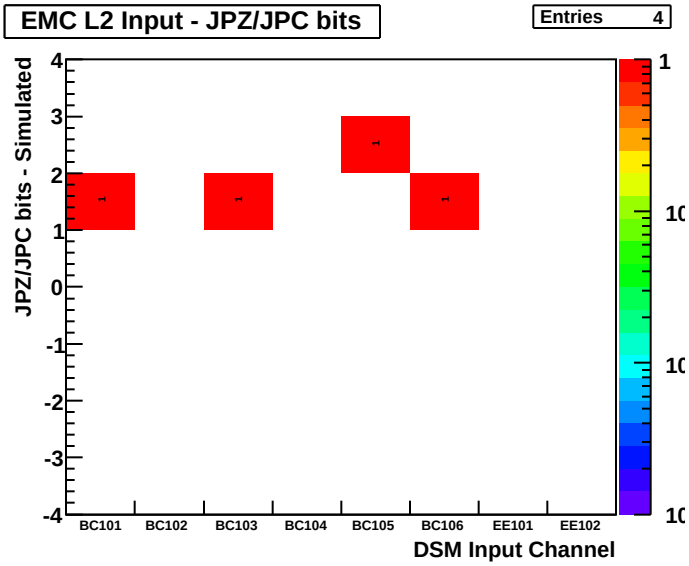

EMC L2 Input - JPX/JPA bits
Entries 1153056
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
383 328 276 145 465 272 81 87
1277 979 757 387 1707 821 230 283
1759 1477 1058 747 1934 1542 267 292
140713 141348 142041 142853 140026 141497 143554 143470

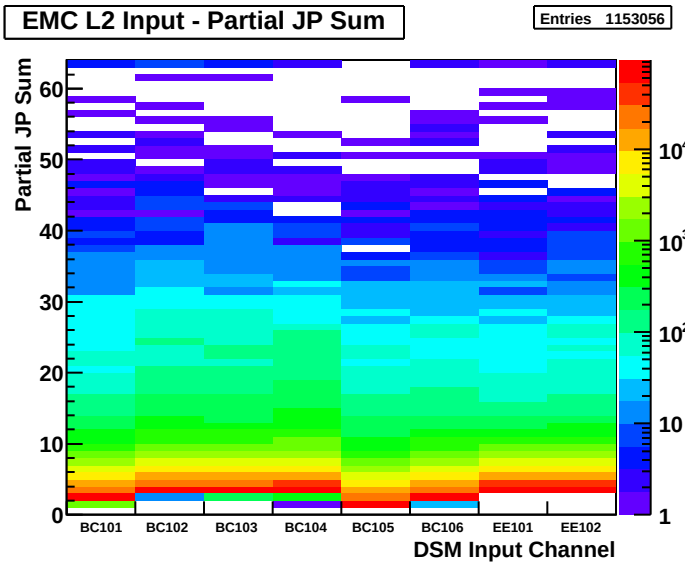

EMC L2 Input - JPX/JPA bits
Entries 228
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
160 1
65 1 1

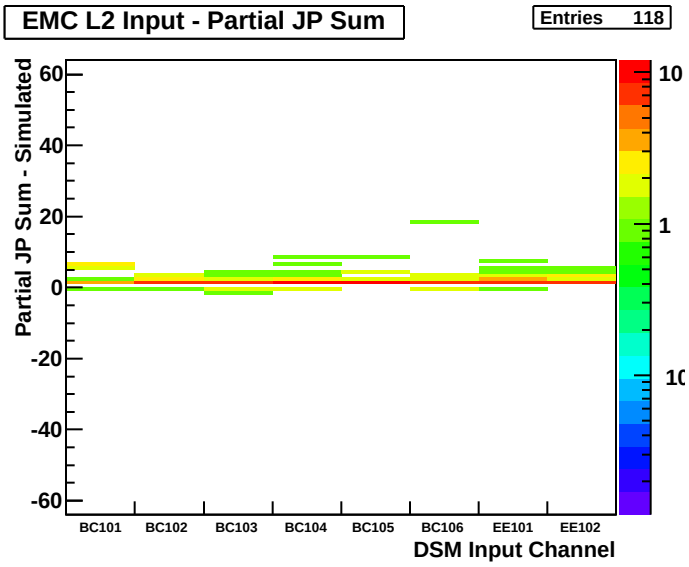

EMC L2 Input - JPY/JPB bits
Entries 1153056
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
295 271 215 193 187 373 66 92
874 919 536 629 539 1198 224 262
1723 1706 1046 1279 1479 1794 238 262
141240 141236 142235 142031 141927 140767 143804 143526

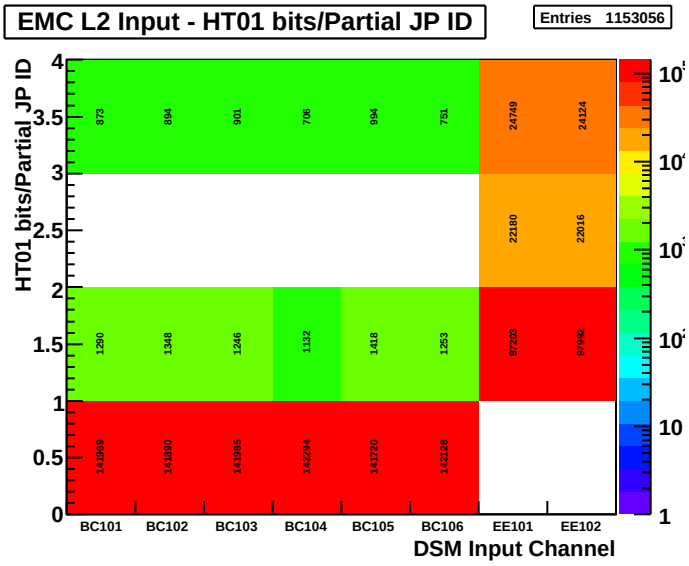

EMC L2 Input - JPY/JPB bits
Entries 229
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1
132 1 1 1
92

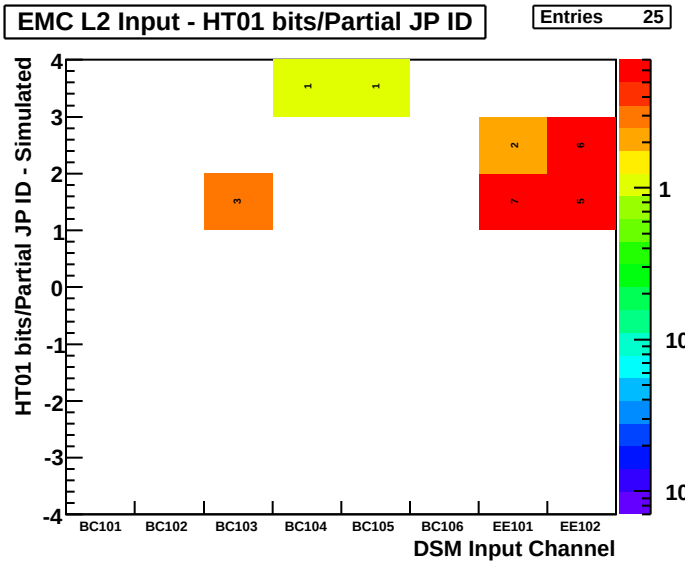

EMC L2 Input - JPZ/JPC bits
Entries 1153056
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
203 327 277 414 130 217 98 48
580 1128 765 1630 407 638 269 154
1035 1602 1353 2171 770 1083 301 199
142314 141075 141737 139917 142625 142194 143464 143731

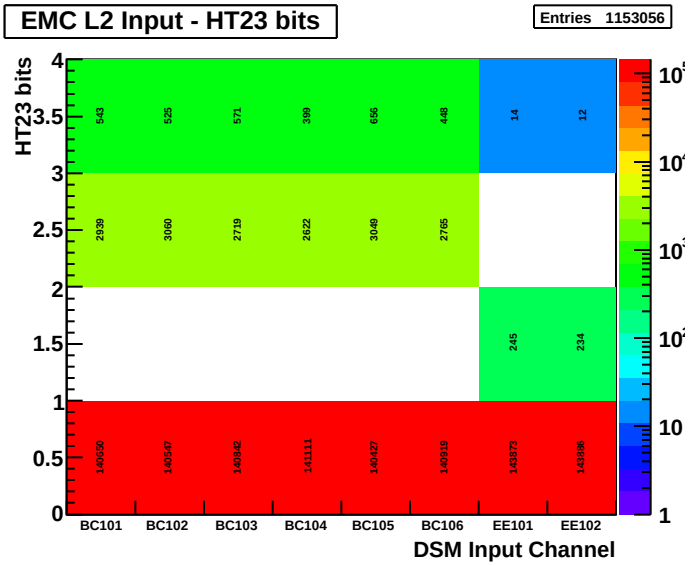

EMC L2 Input - JPZ/JPC bits
Entries 4
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1

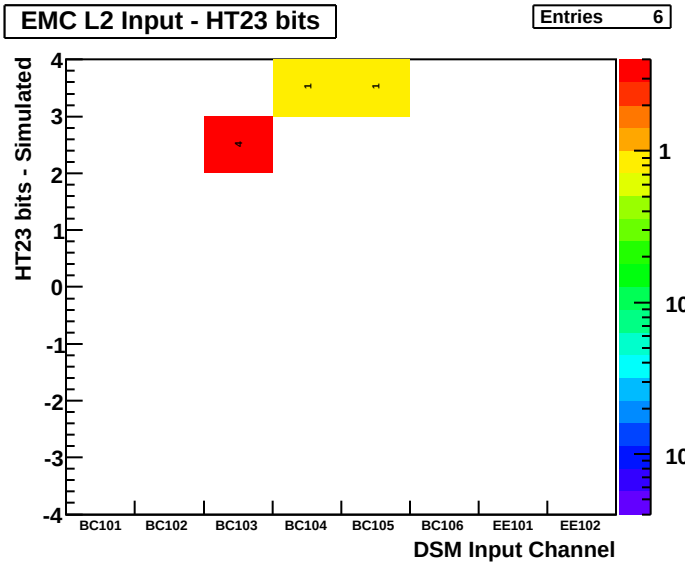

EMC L2 Input - Partial JP Sum
Entries 1153056
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

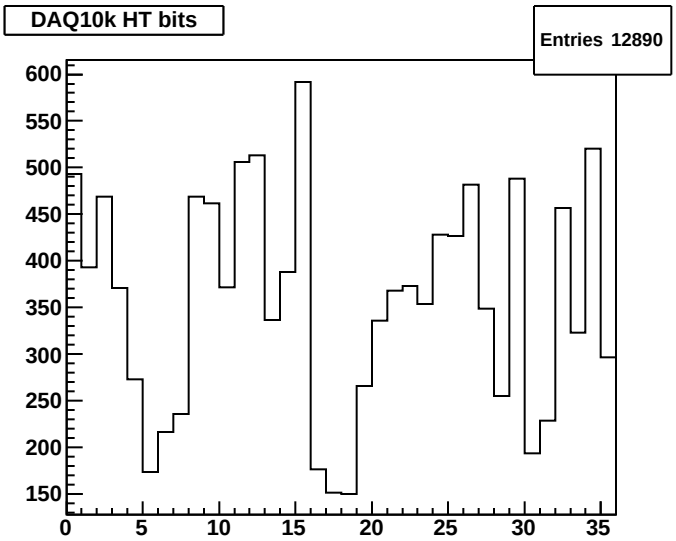

EMC L2 Input - Partial JP Sum
Entries 118
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

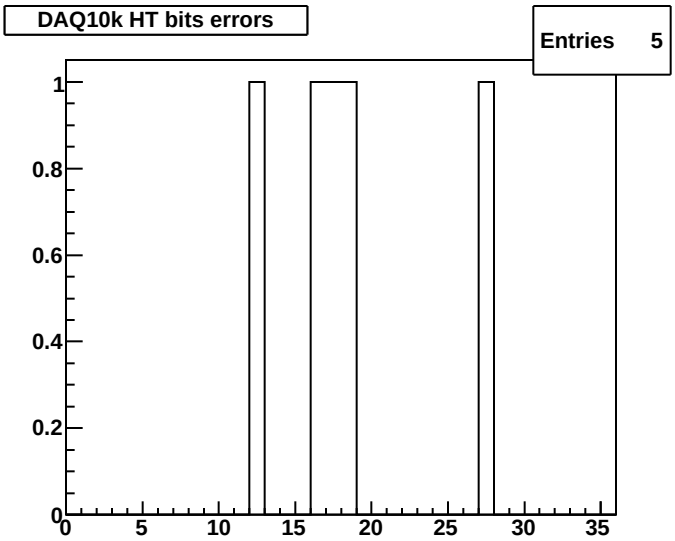

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1153056
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

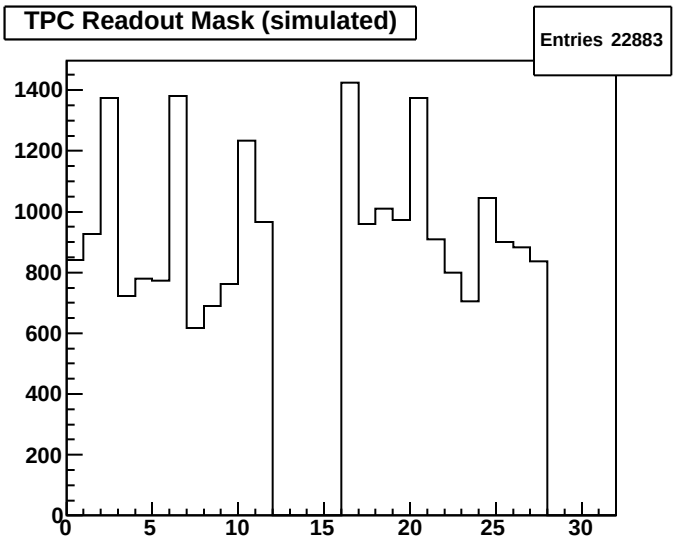

EMC L2 Input - HT01 bits/Partial JP ID
Entries 25
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

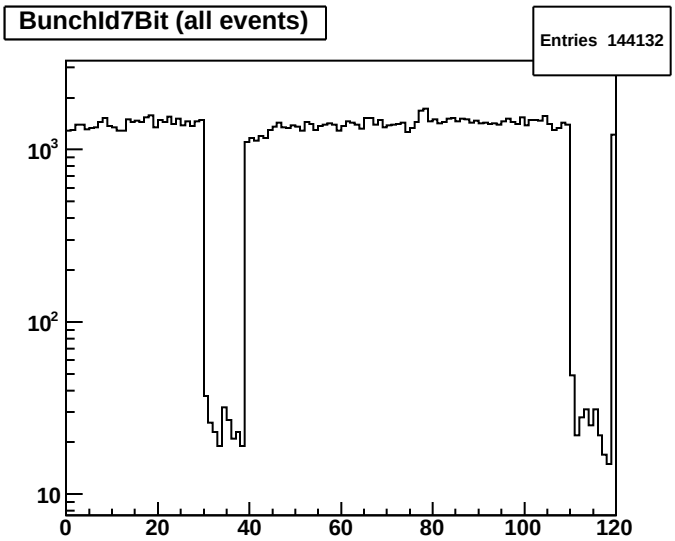

EMC L2 Input - HT23 bits
Entries 1153056
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

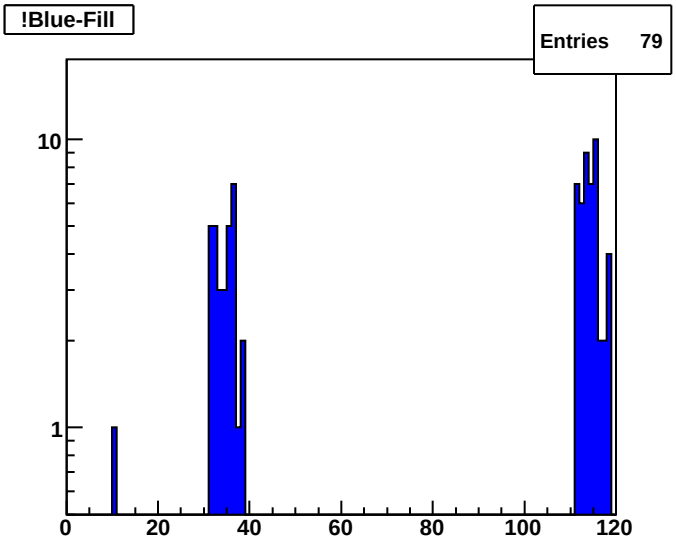

EMC L2 Input - HT23 bits
Entries 6
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

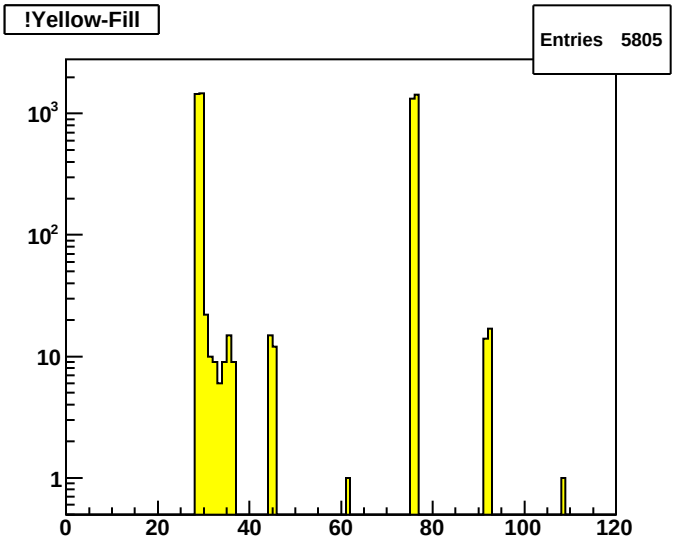

DAQ10k HT bits
Entries 12890

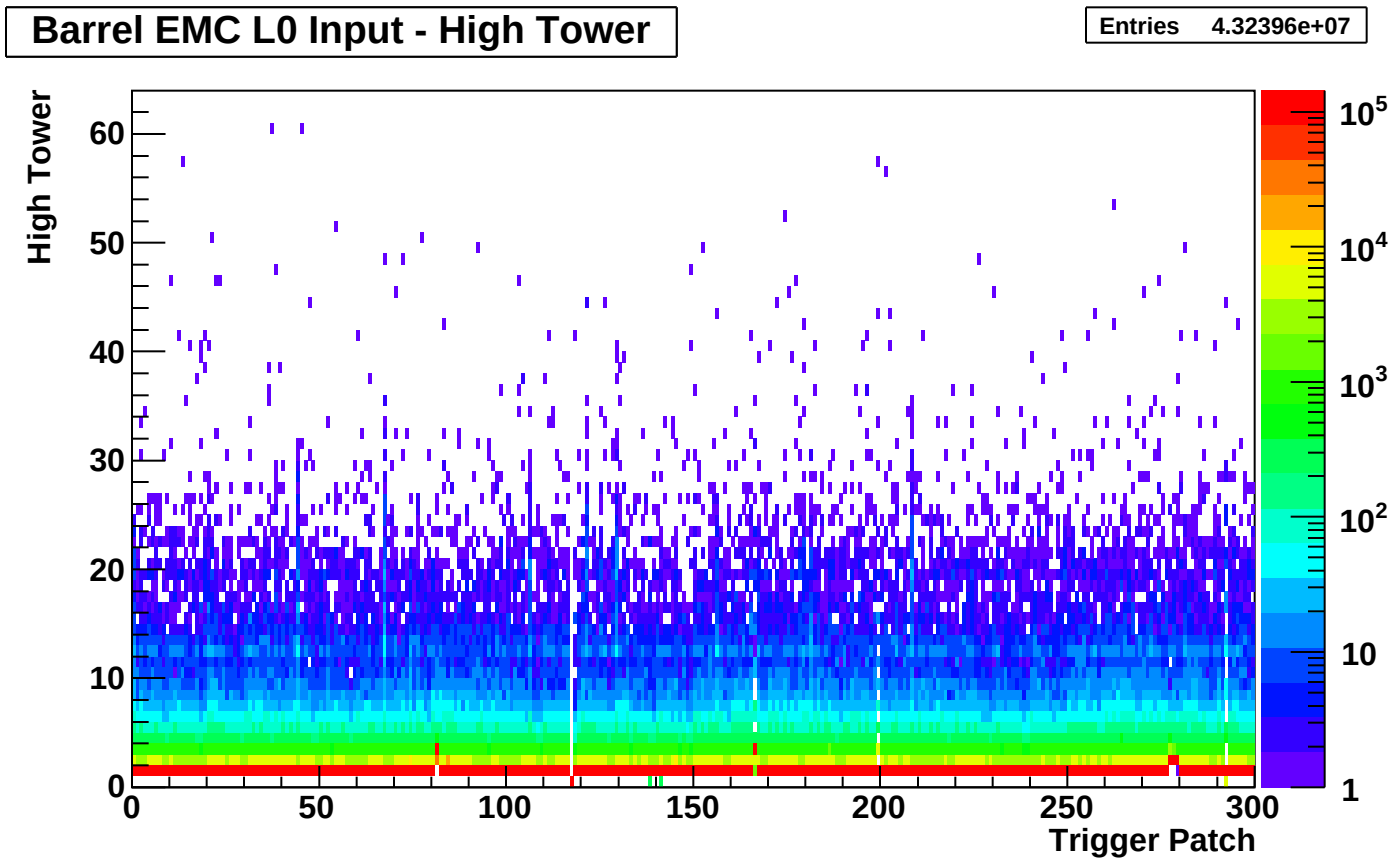

DAQ10k HT bits errors
Entries 5

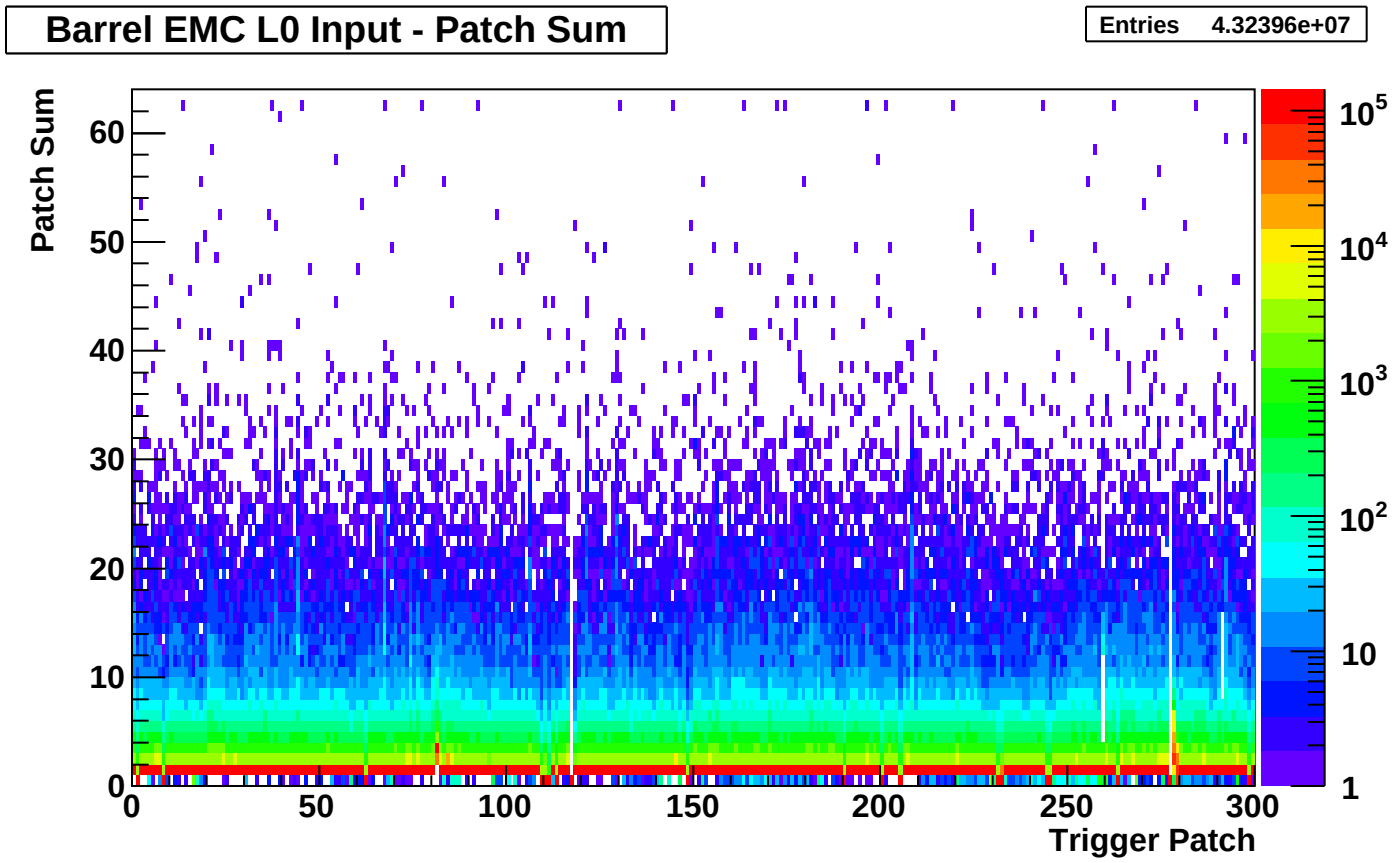

TPC Readout Mask (simulated)
Entries 22883

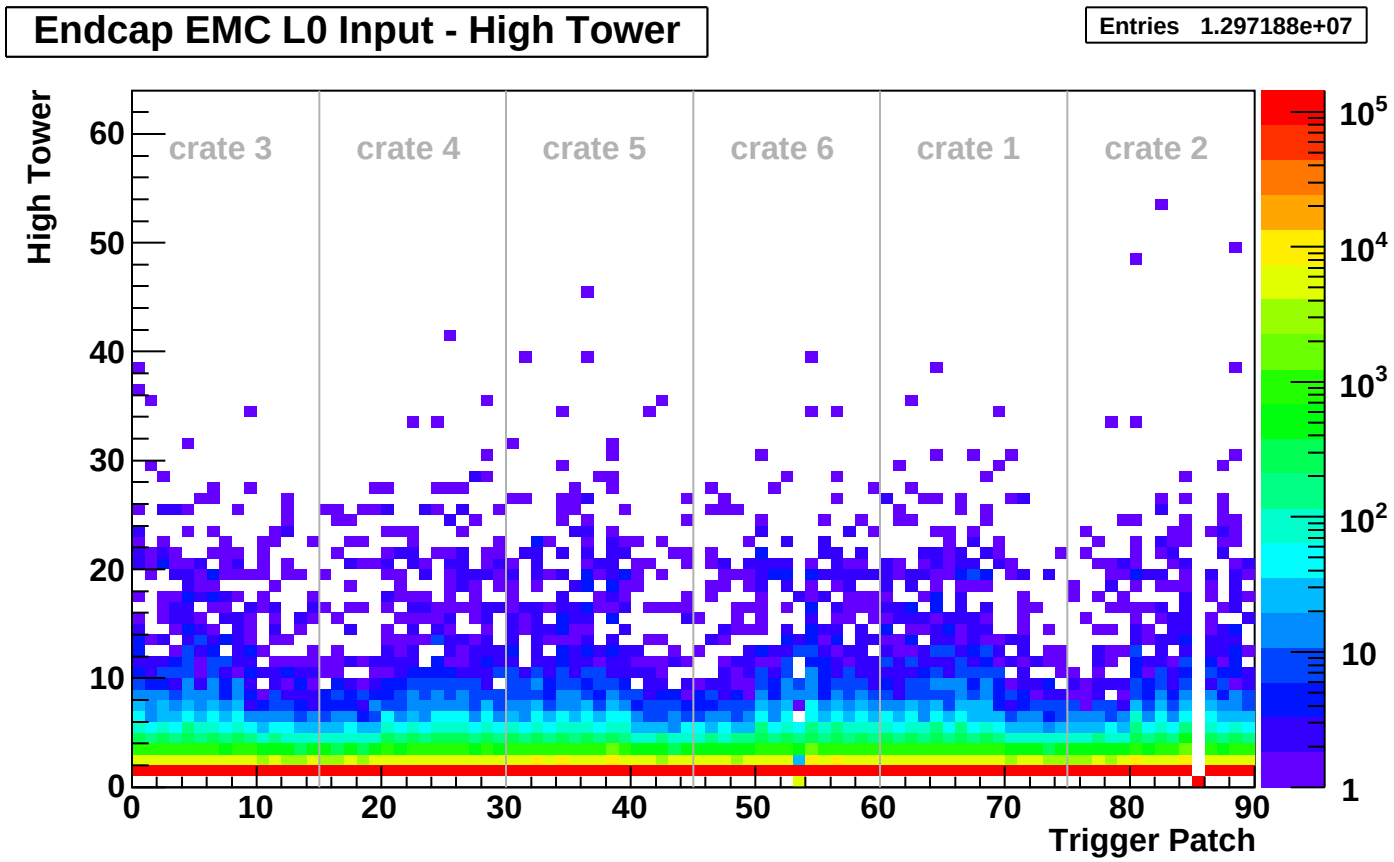

BunchId7Bit (all events)
Entries 144132

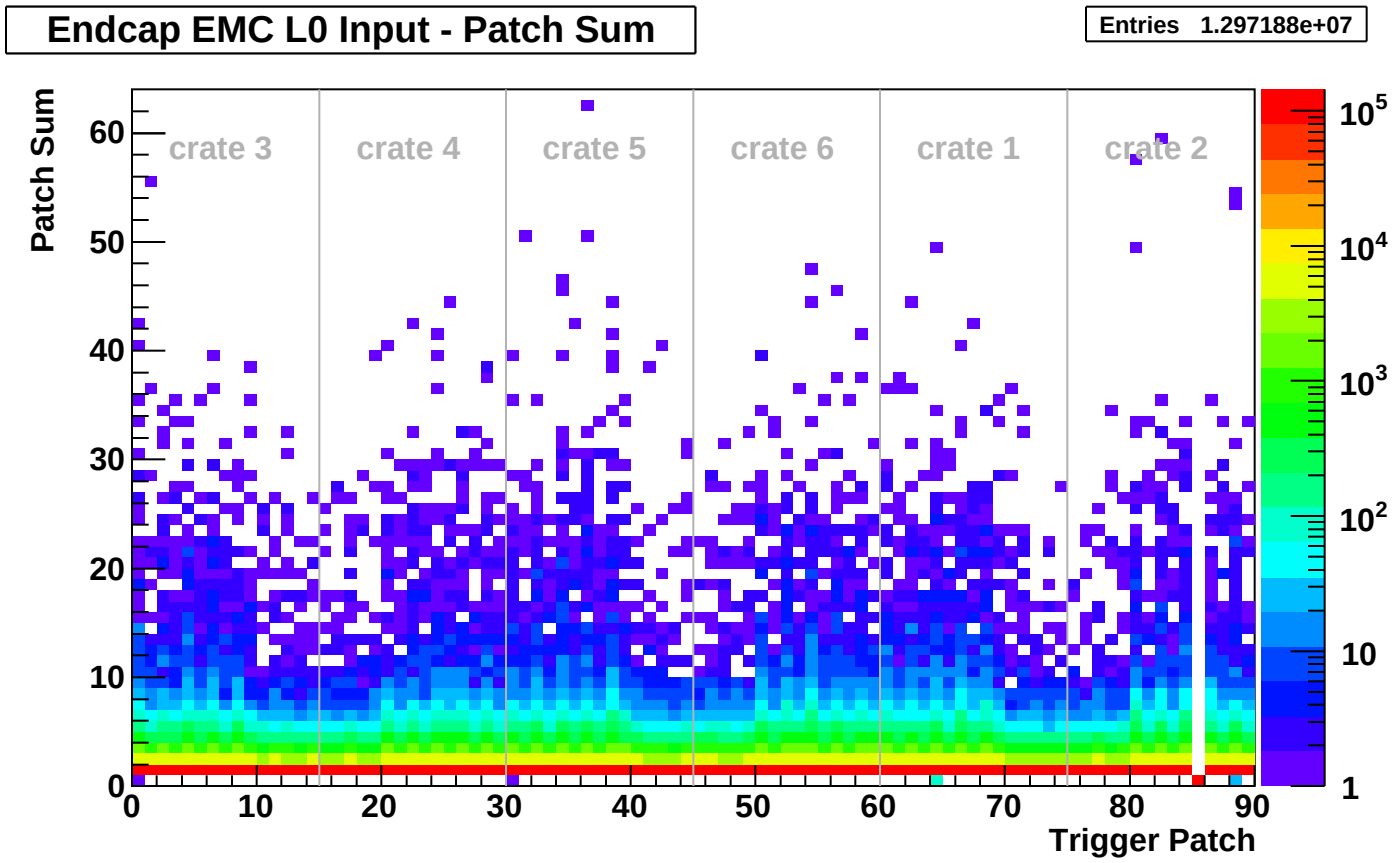

!Blue-Fill
Entries 79

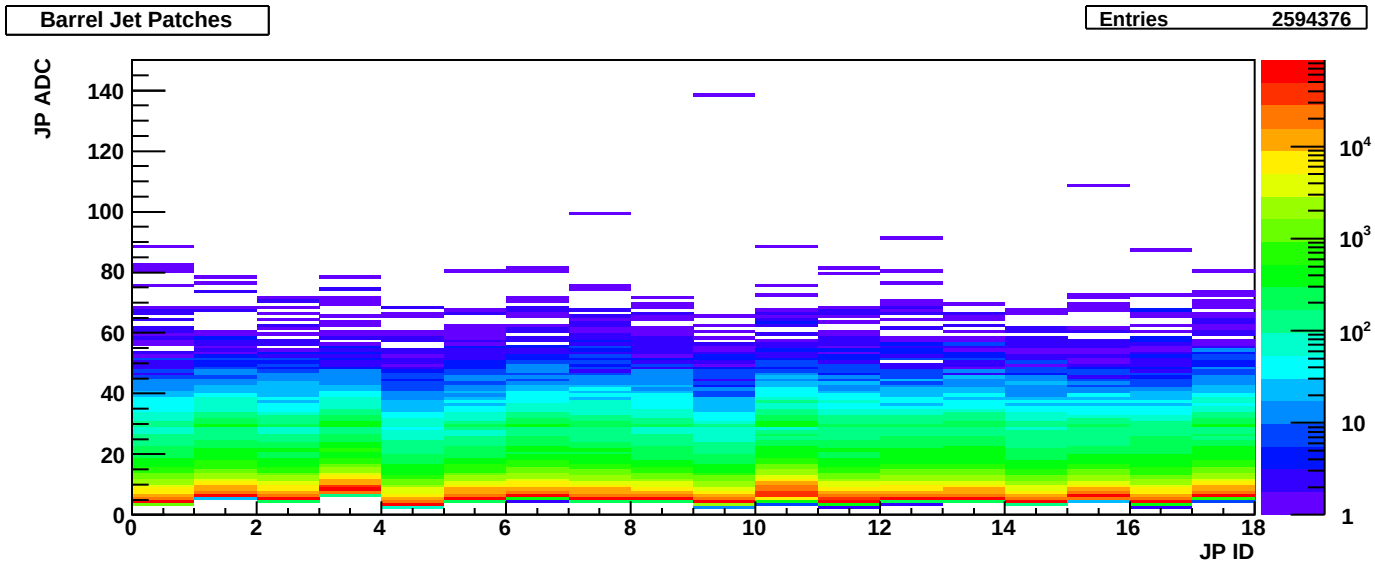

!Yellow-Fill
Entries 5805

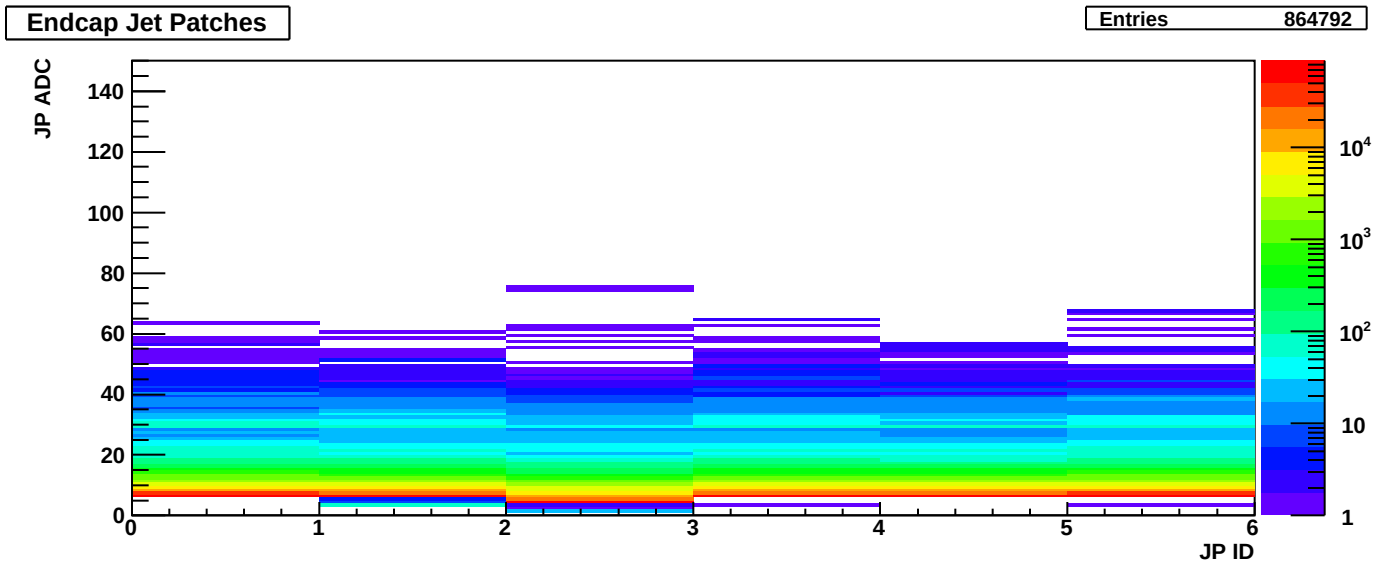

Barrel EMC L0 Input - High Tower
Entries 4.32396e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

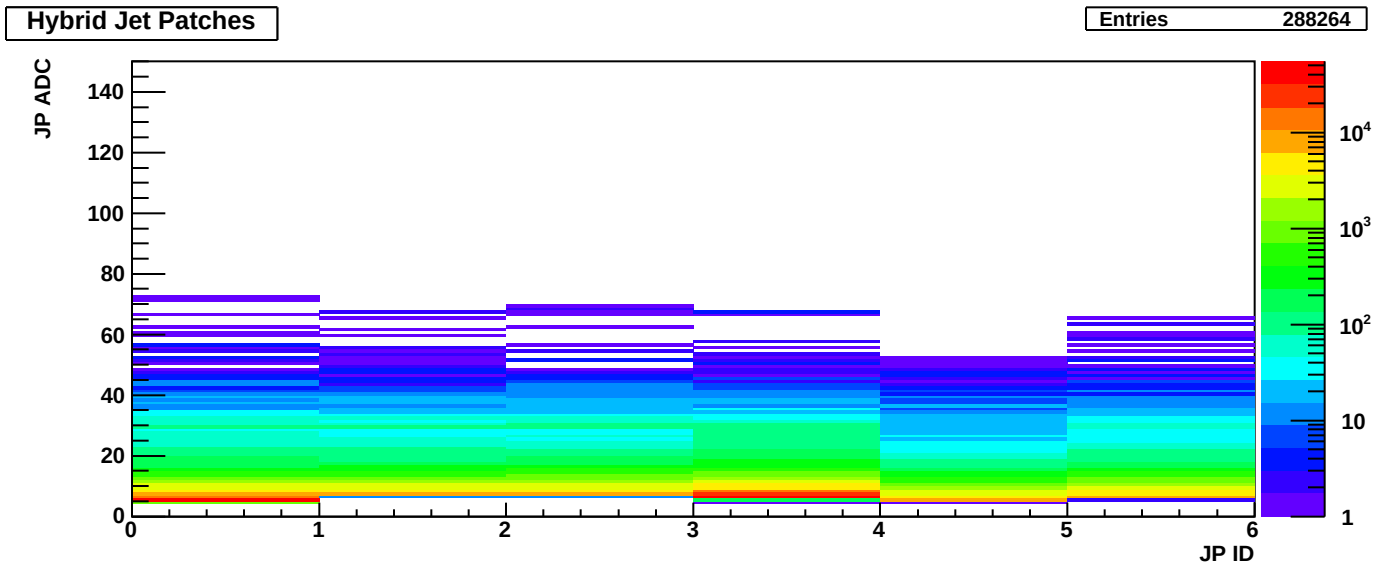

Barrel EMC L0 Input - Patch Sum
Entries 4.32396e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

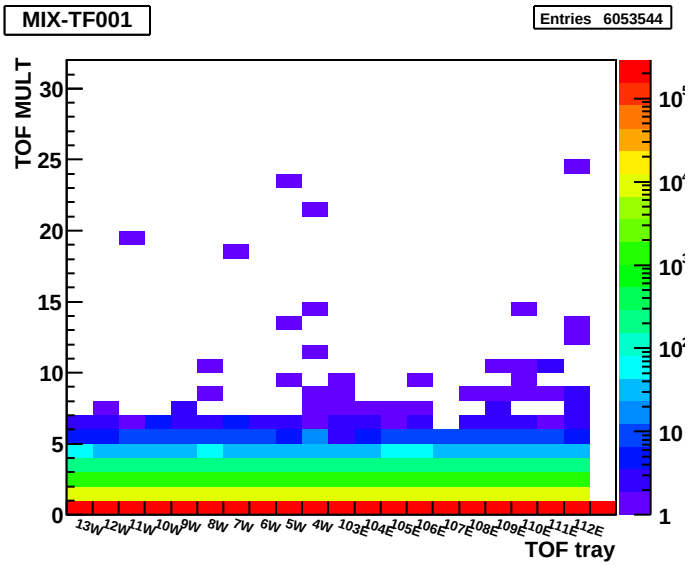

Endcap EMC L0 Input - High Tower
Entries 1.297188e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

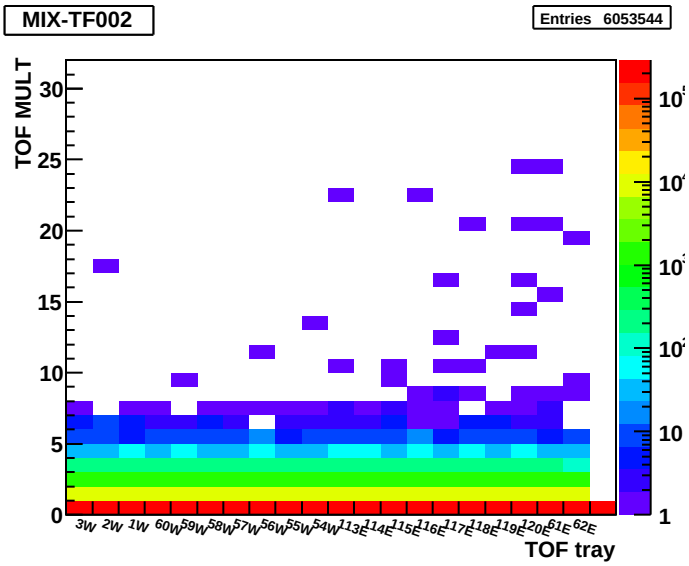

Endcap EMC L0 Input - Patch Sum
Entries 1.297188e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

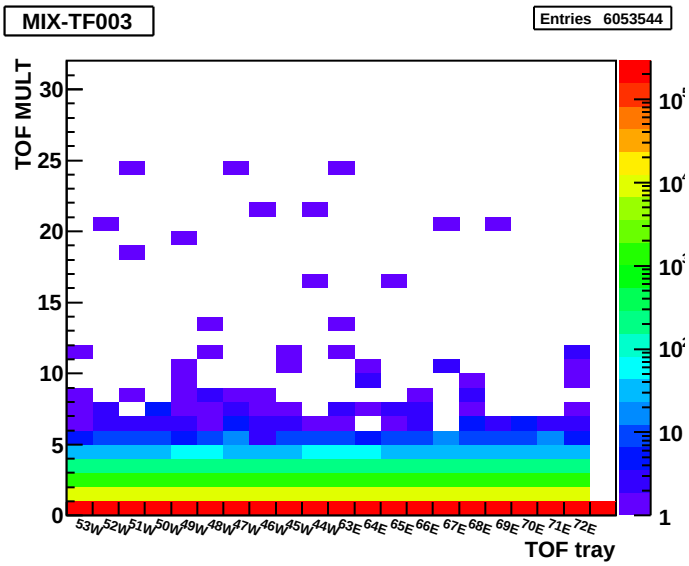

Barrel Jet Patches
Entries 2594376
JP ADC
JP ID

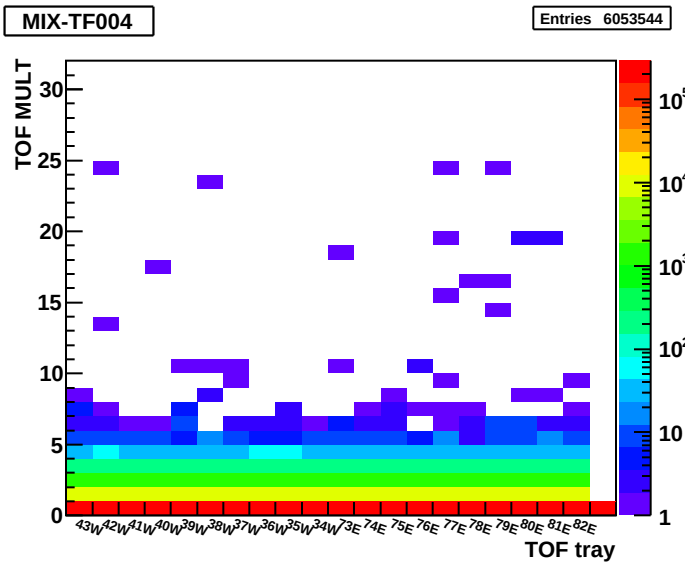

Endcap Jet Patches
Entries 864792
JP ADC
JP ID

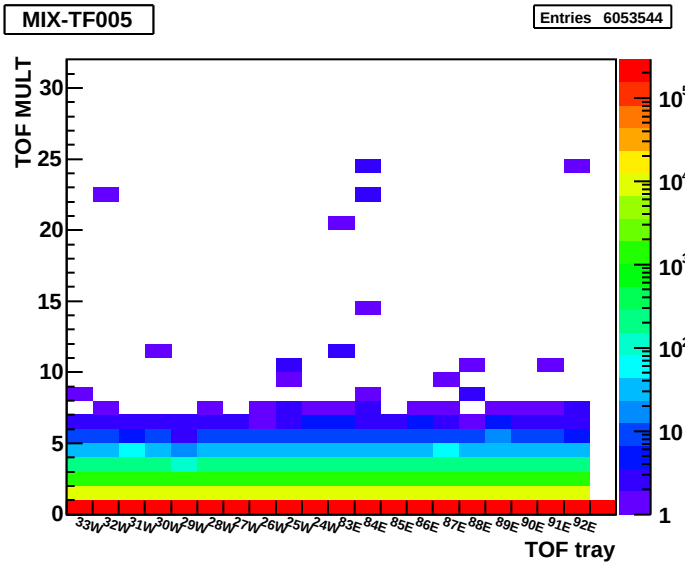

Hybrid Jet Patches
Entries 288264
JP ADC
JP ID

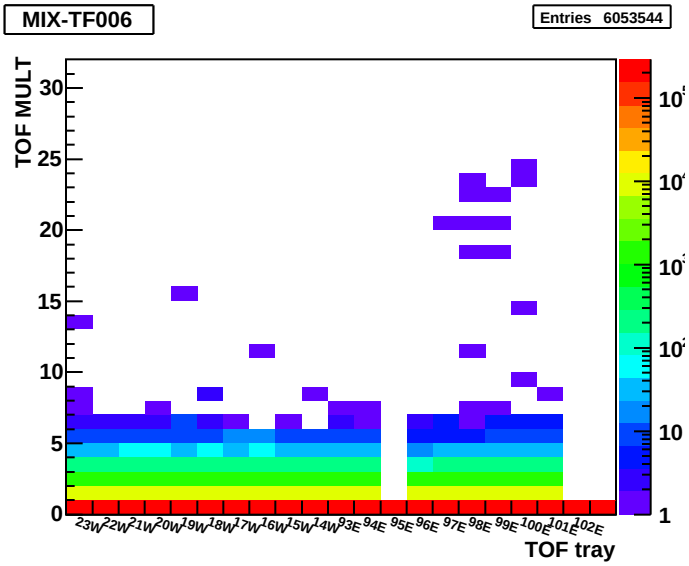

MIX-TF001
Entries 6053544
TOF MULT
TOF tray

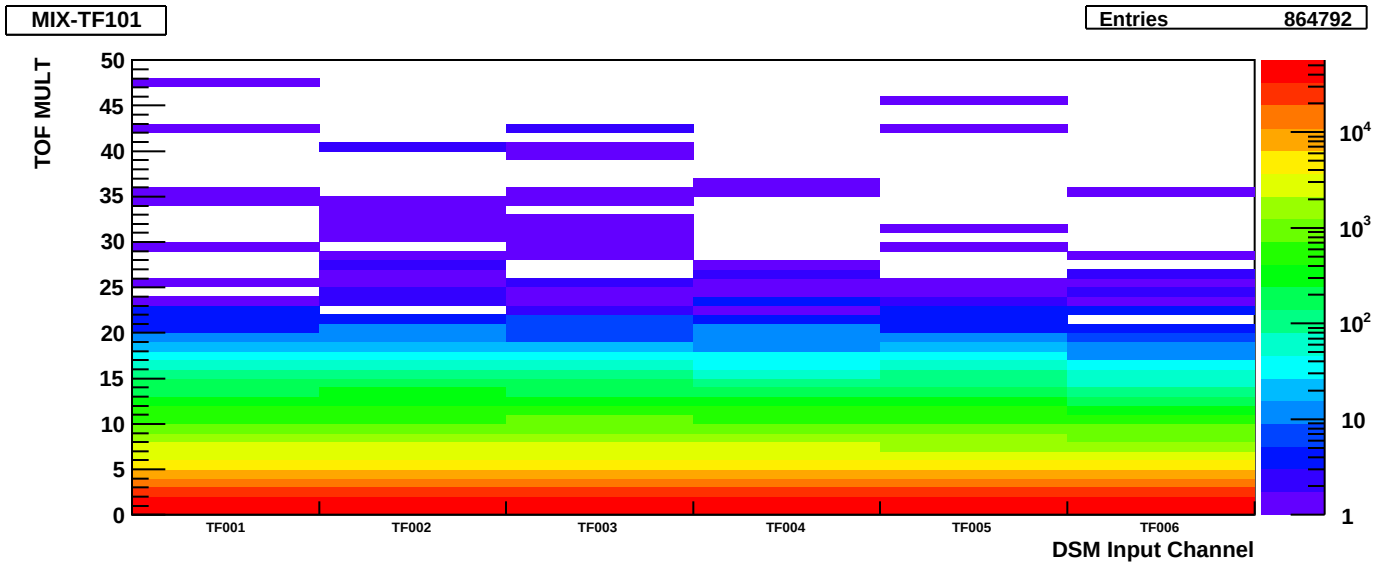

MIX-TF002
Entries 6053544
TOF MULT
TOF tray

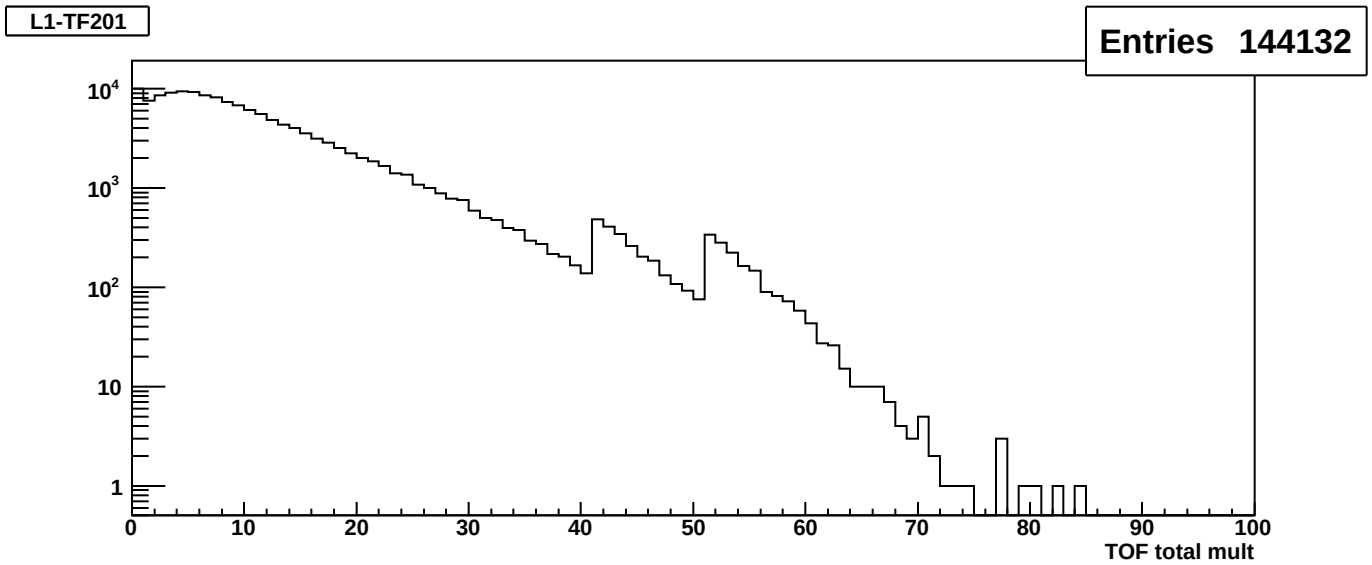

MIX-TF003
Entries 6053544
TOF MULT
TOF tray

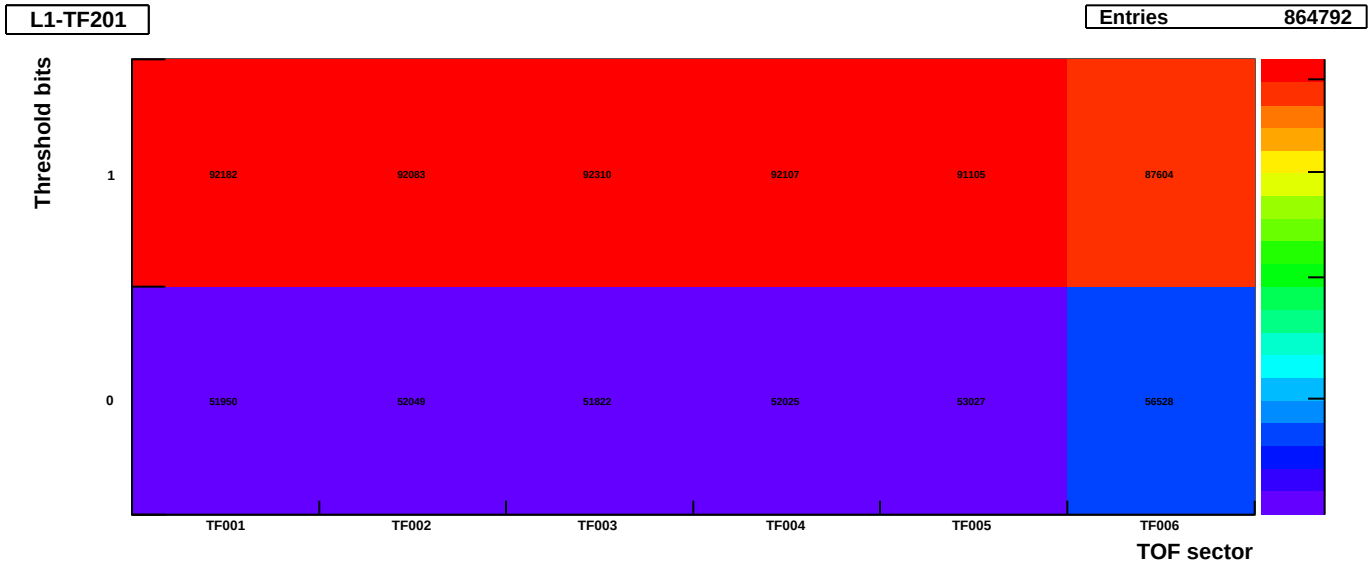

MIX-TF004
Entries 6053544
TOF MULT
TOF tray

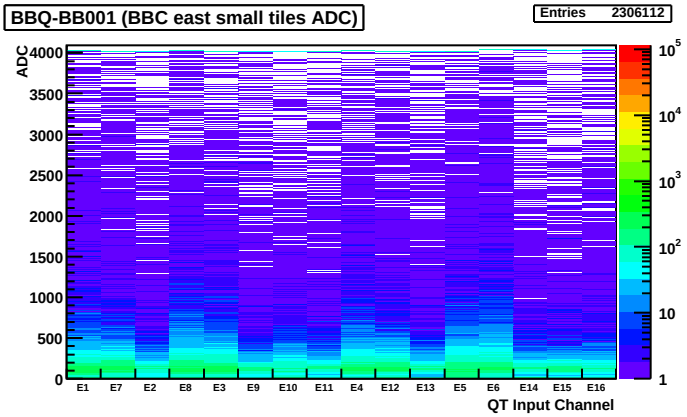

MIX-TF005
Entries 6053544
TOF MULT
TOF tray

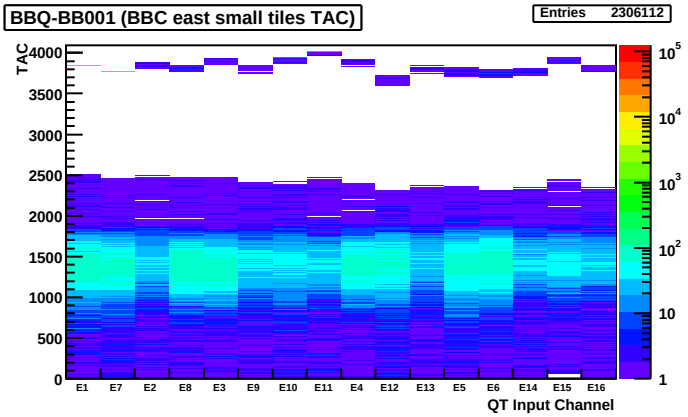

MIX-TF006
Entries 6053544
TOF MULT
TOF tray

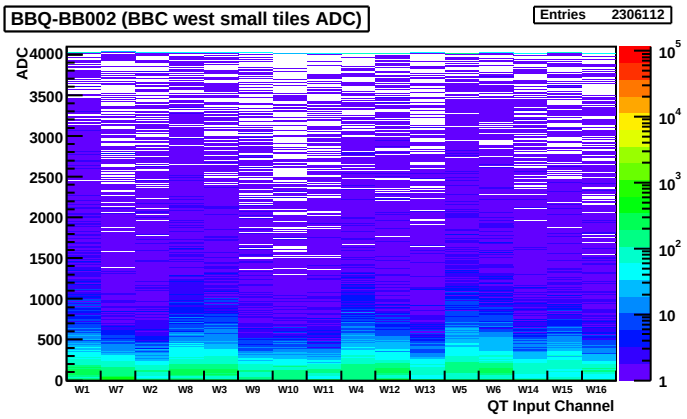

MIX-TF101
Entries 864792
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

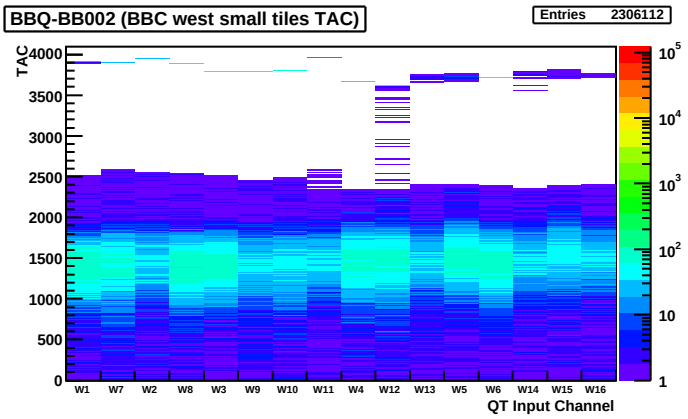

L1-TF201
Entries 144132
TOF total mult

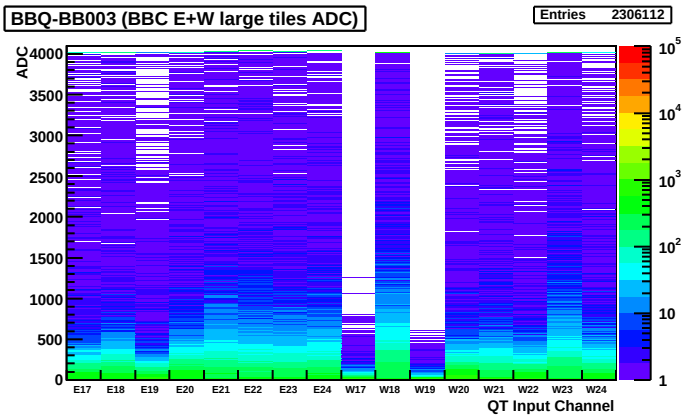

L1-TF201
Entries 864792
Threshold bits
92182
92083
92310
92107
91105
87604
51950
52049
51822
52025
53027
56528
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

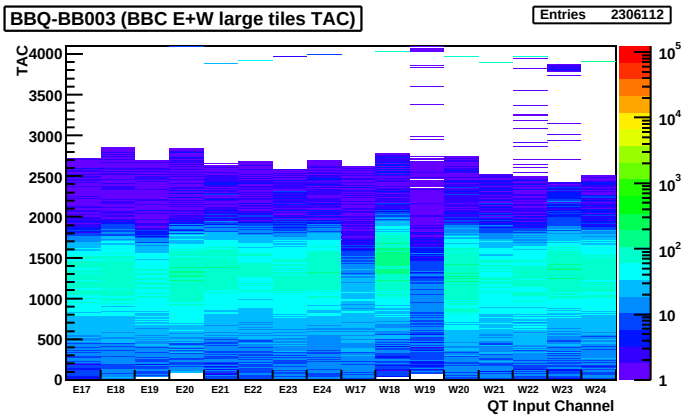

BBQ-BB001 (BBC east small tiles ADC)
Entries 2306112
ADC
QT Input Channel

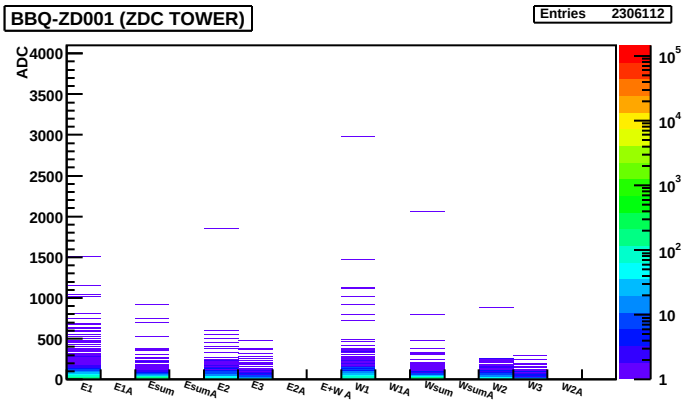

BBQ-BB001 (BBC east small tiles TAC)
Entries 2306112
TAC
QT Input Channel

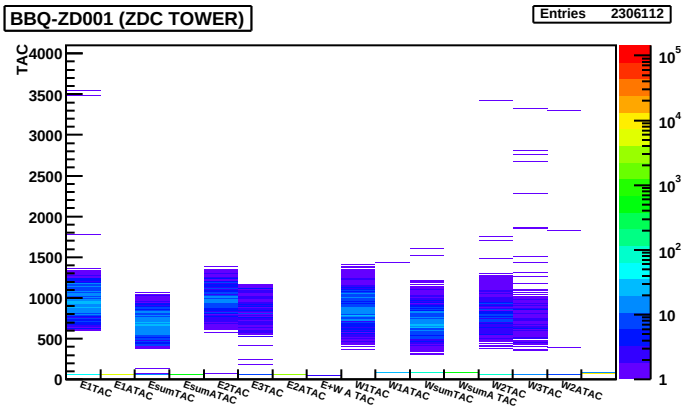

BBQ-BB002 (BBC west small tiles ADC)
Entries 2306112
ADC
QT Input Channel

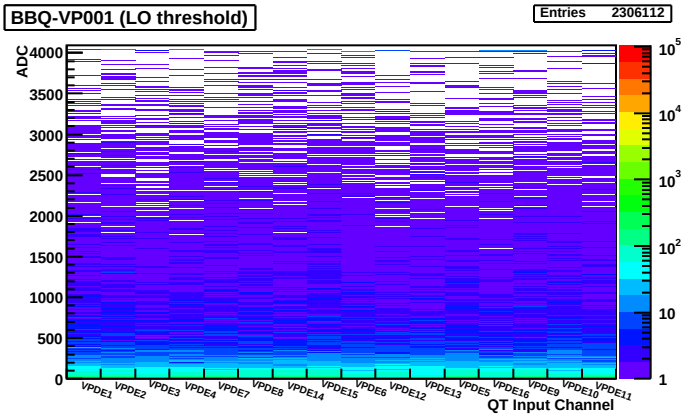

BBQ-BB002 (BBC west small tiles TAC)
Entries 2306112
TAC
QT Input Channel

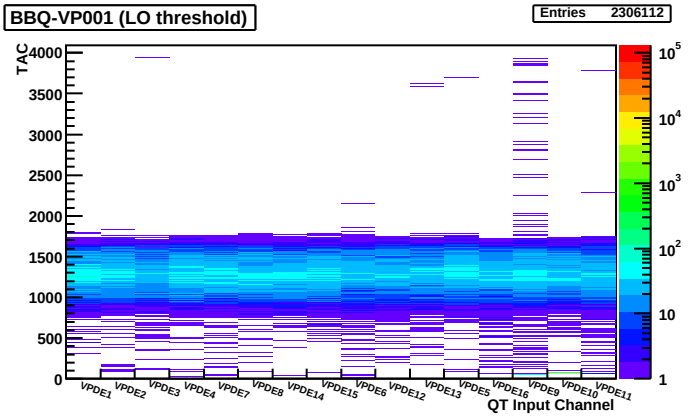

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2306112
ADC
QT Input Channel

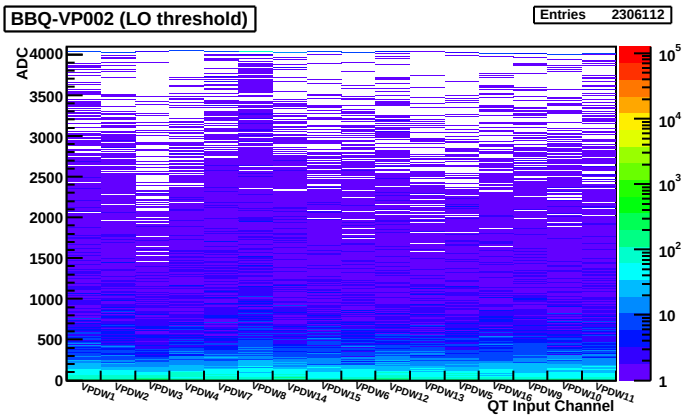

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2306112
TAC
QT Input Channel

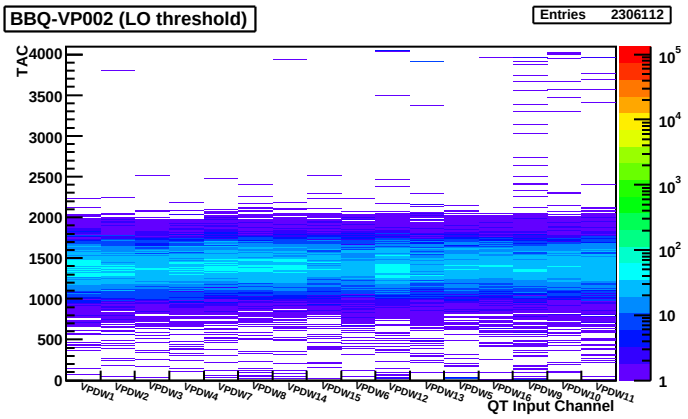

BBQ-ZD001 (ZDC TOWER)
Entries 2306112
ADC

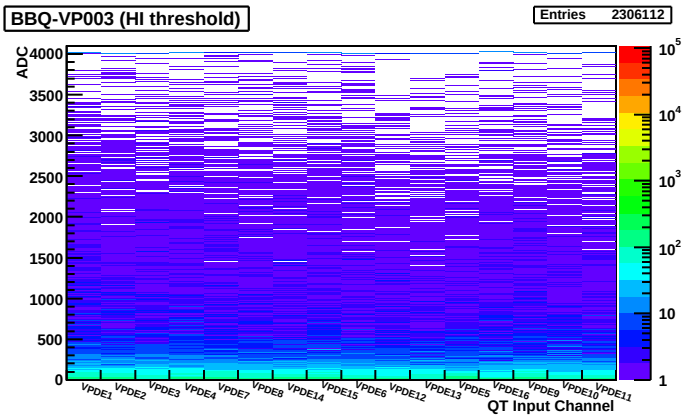

BBQ-ZD001 (ZDC TOWER)
Entries 2306112
TAC

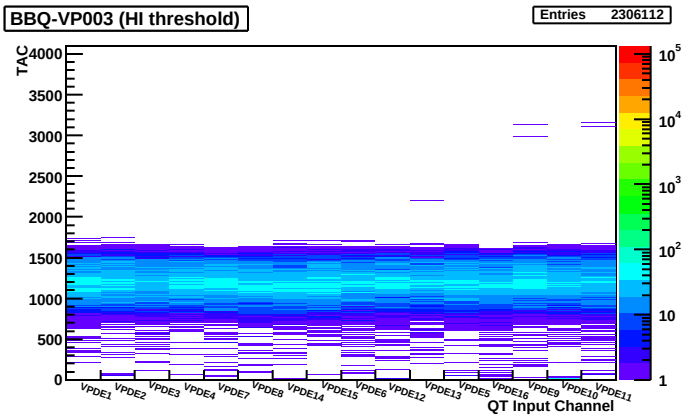

BBQ-VP001 (LO threshold)
Entries 2306112
ADC
QT Input Channel

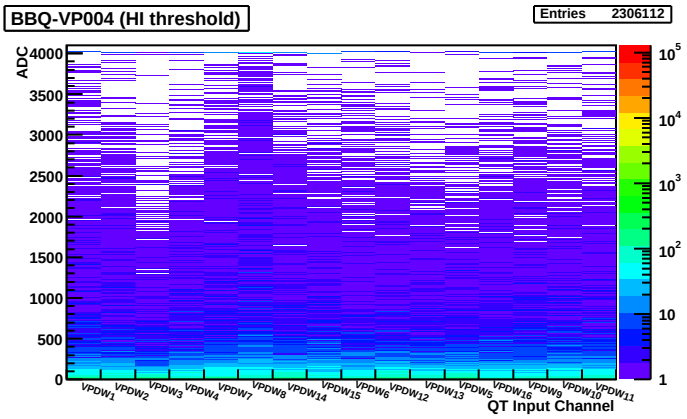

BBQ-VP001 (LO threshold)
Entries 2306112
TAC
QT Input Channel

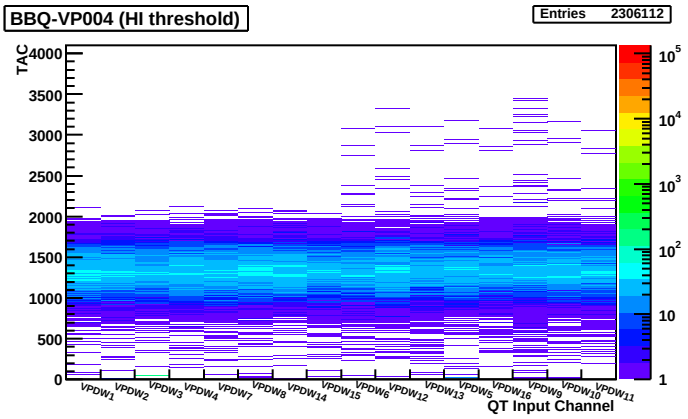

BBQ-VP002 (LO threshold)
Entries 2306112
ADC
QT Input Channel

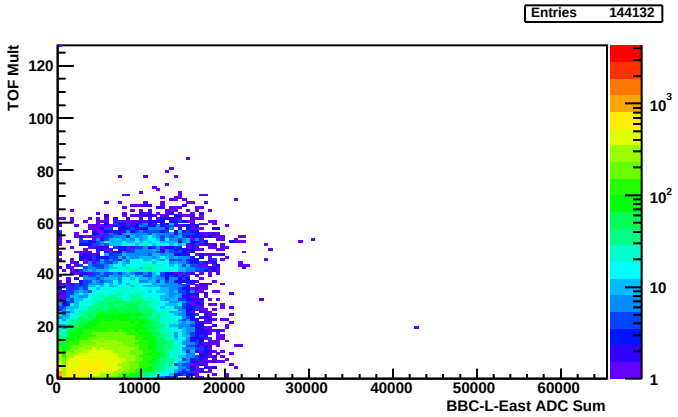

BBQ-VP002 (LO threshold)
Entries 2306112
TAC
QT Input Channel

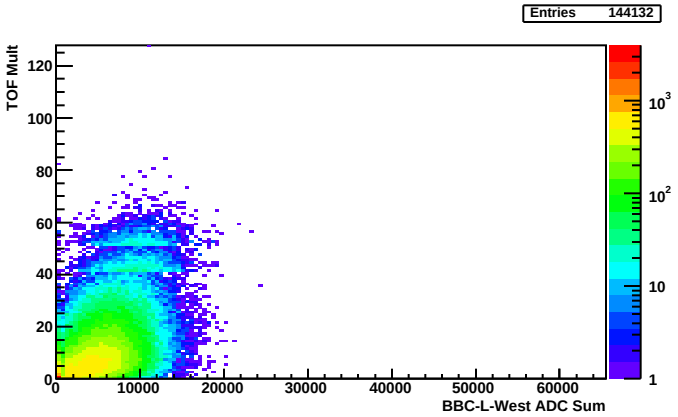

BBQ-VP003 (HI threshold)
Entries 2306112
ADC
QT Input Channel

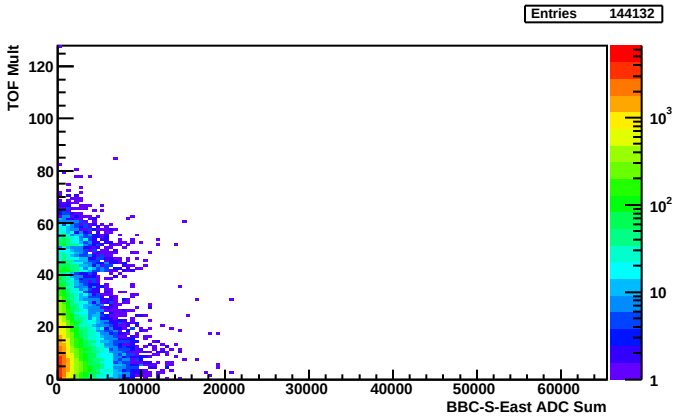

BBQ-VP003 (HI threshold)
Entries 2306112
TAC
QT Input Channel

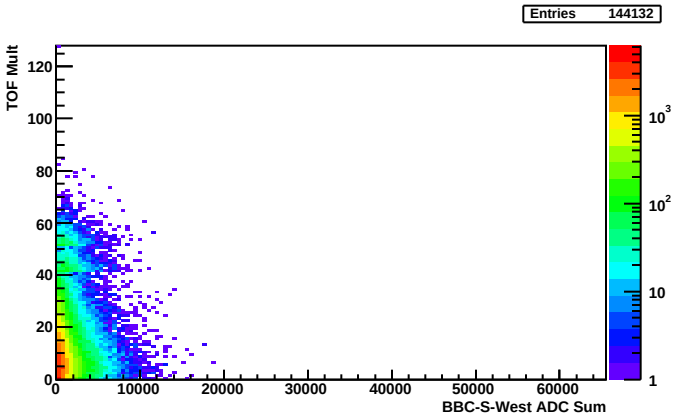

BBQ-VP004 (HI threshold)
Entries 2306112
ADC
QT Input Channel

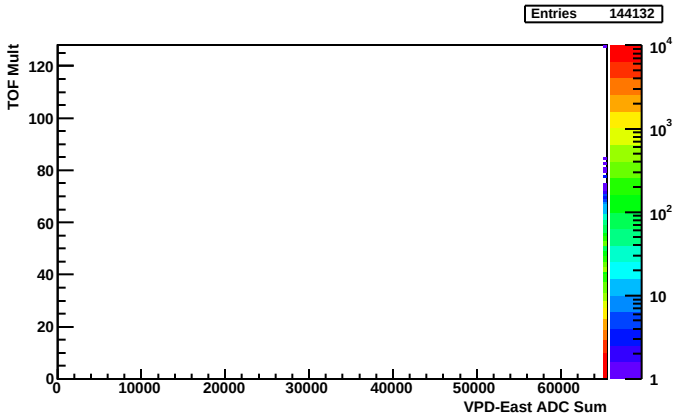

BBQ-VP004 (HI threshold)
Entries 2306112
TAC
QT Input Channel

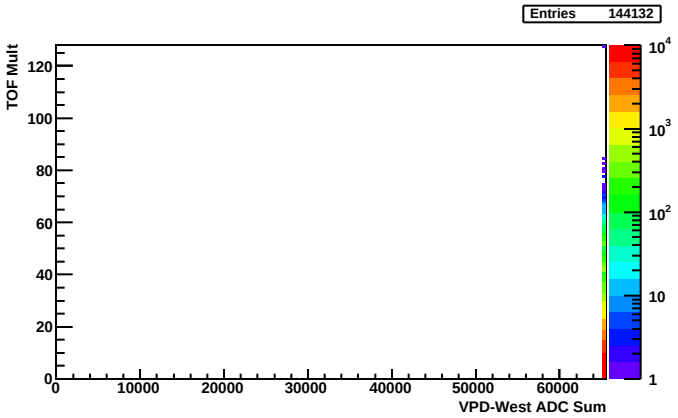

Entries 144132
TOF Mult
BBC-L-East ADC Sum

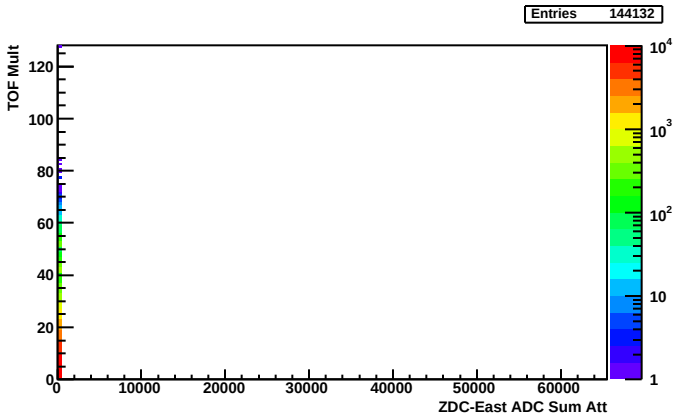

Entries 144132
TOF Mult
BBC-L-West ADC Sum

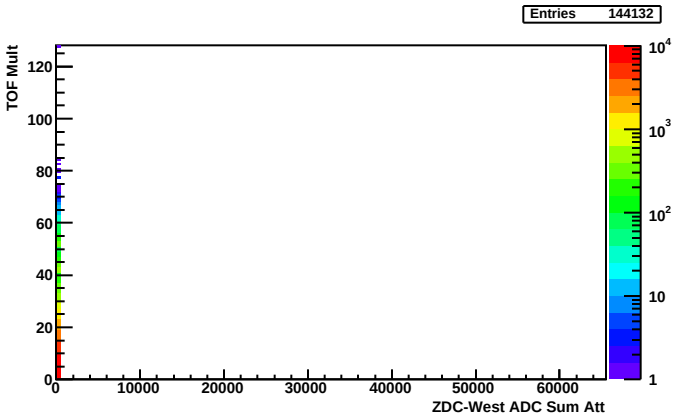

Entries 144132
TOF Mult
BBC-S-East ADC Sum

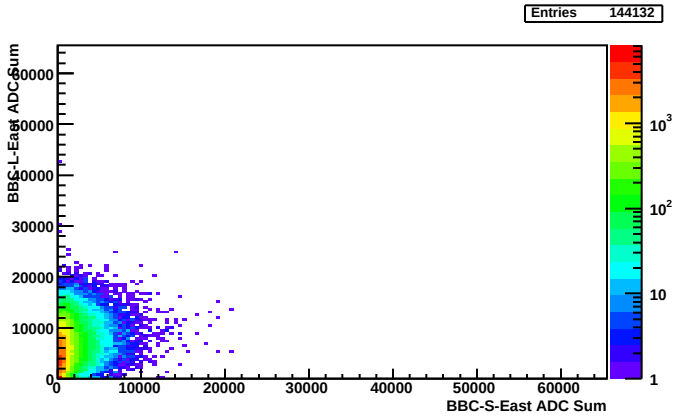

Entries 144132
TOF Mult
BBC-S-West ADC Sum

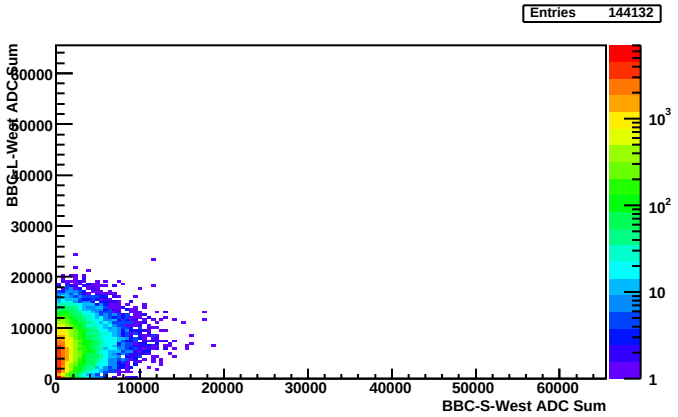

Entries 144132
TOF Mult
VPD-East ADC Sum

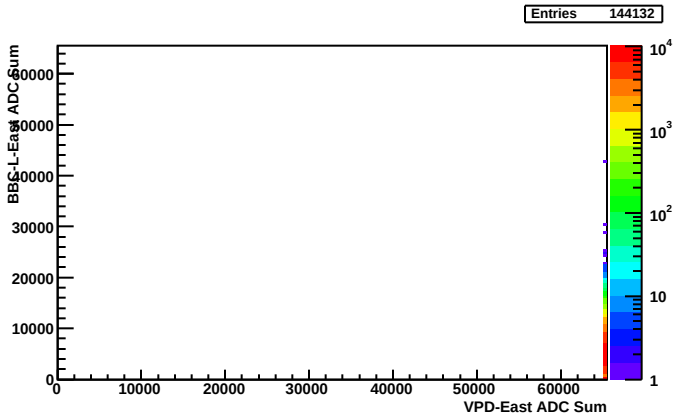

Entries 144132
TOF Mult
VPD-West ADC Sum

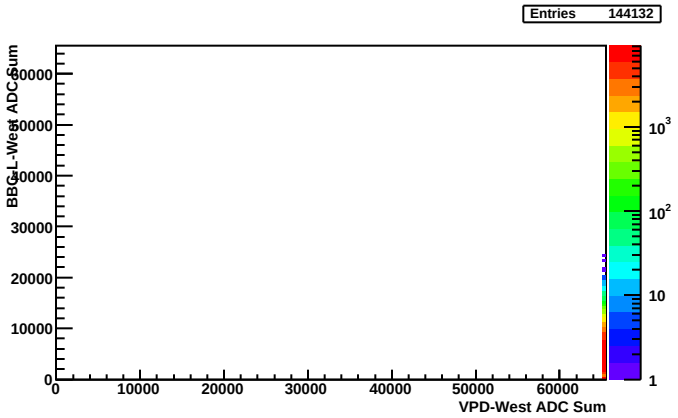

Entries 144132
TOF Mult
ZDC-East ADC Sum Att

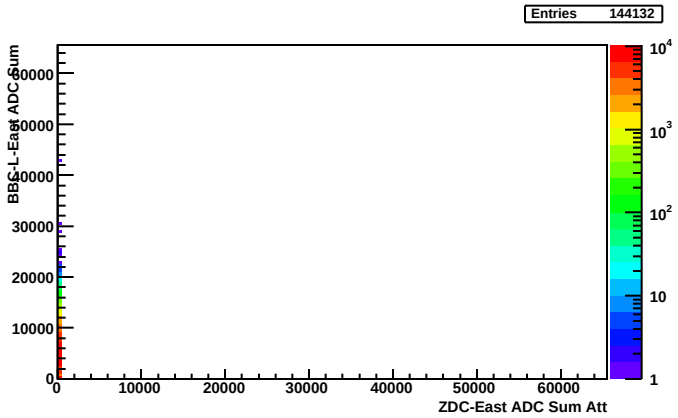

Entries 144132
TOF Mult
ZDC-West ADC Sum Att

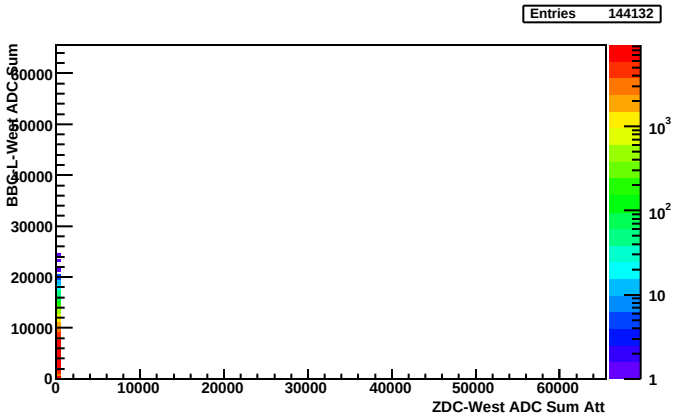

Entries 144132
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 144132
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 144132
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 144132
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 144132
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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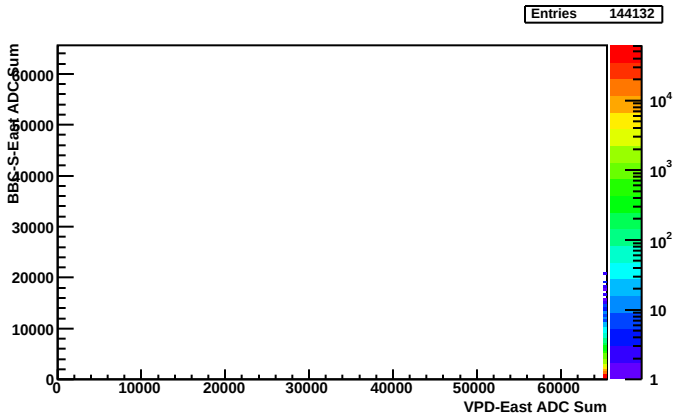
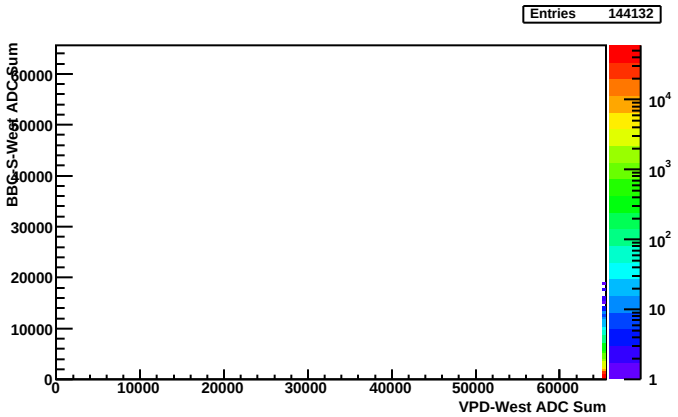
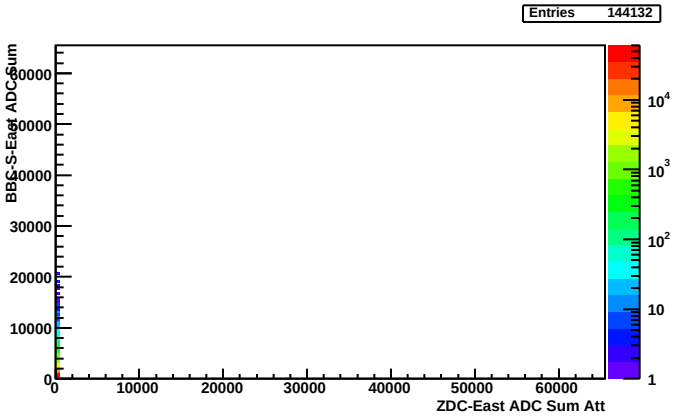
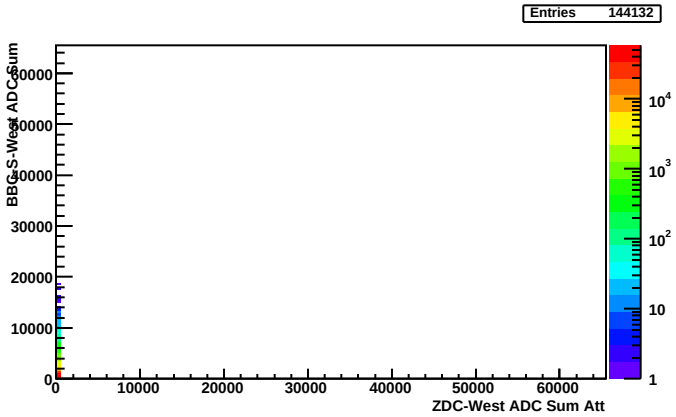
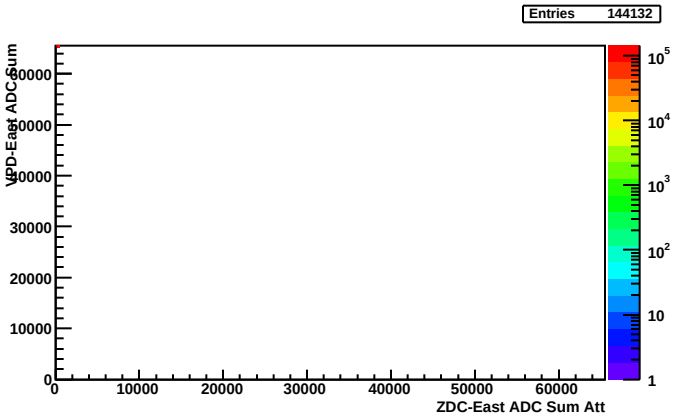
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

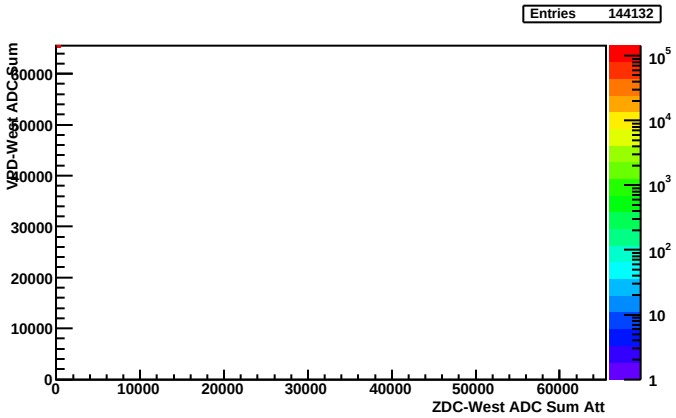

Entries 144132
BBC-S-East ADC Sum
VPD-East ADC Sum

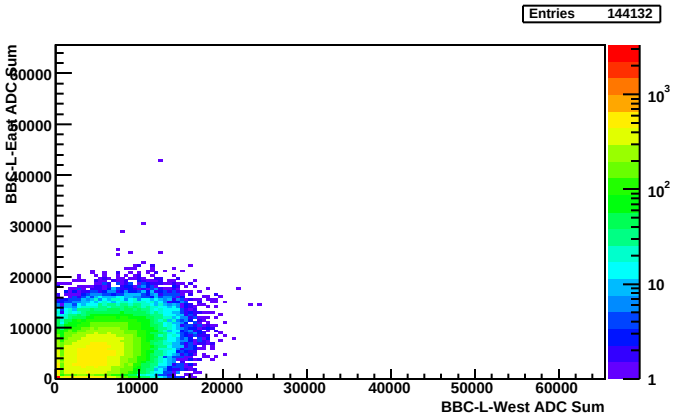

Entries 144132
BBC-S-West ADC Sum
VPD-West ADC Sum

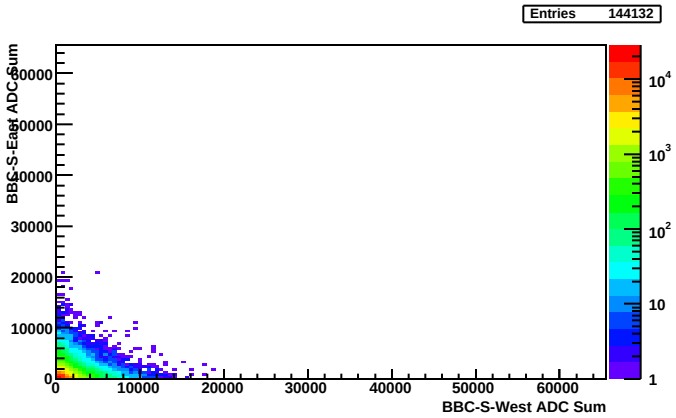

Entries 144132
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

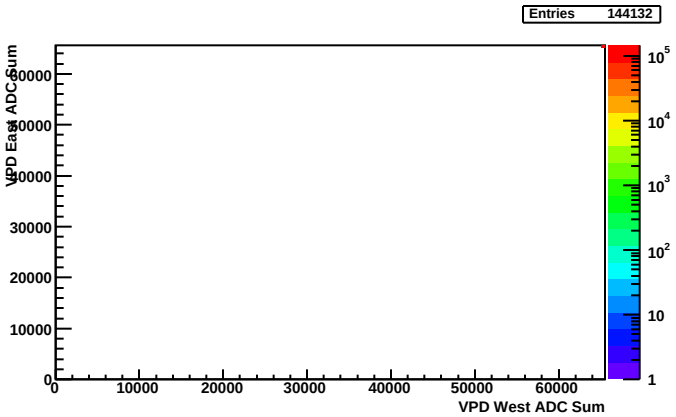

Entries 144132
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

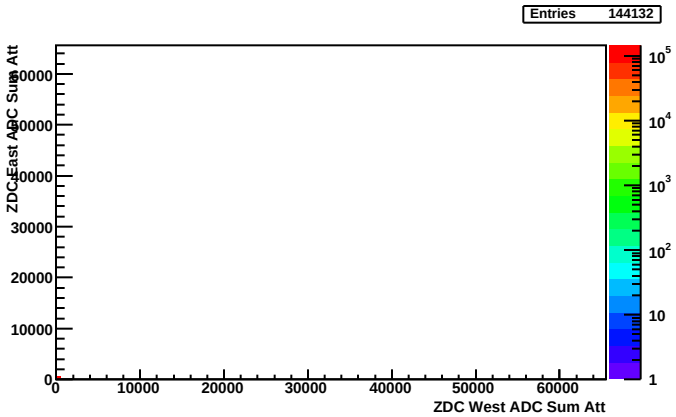

Entries 144132
VPD-East ADC Sum
ZDC-East ADC Sum Att

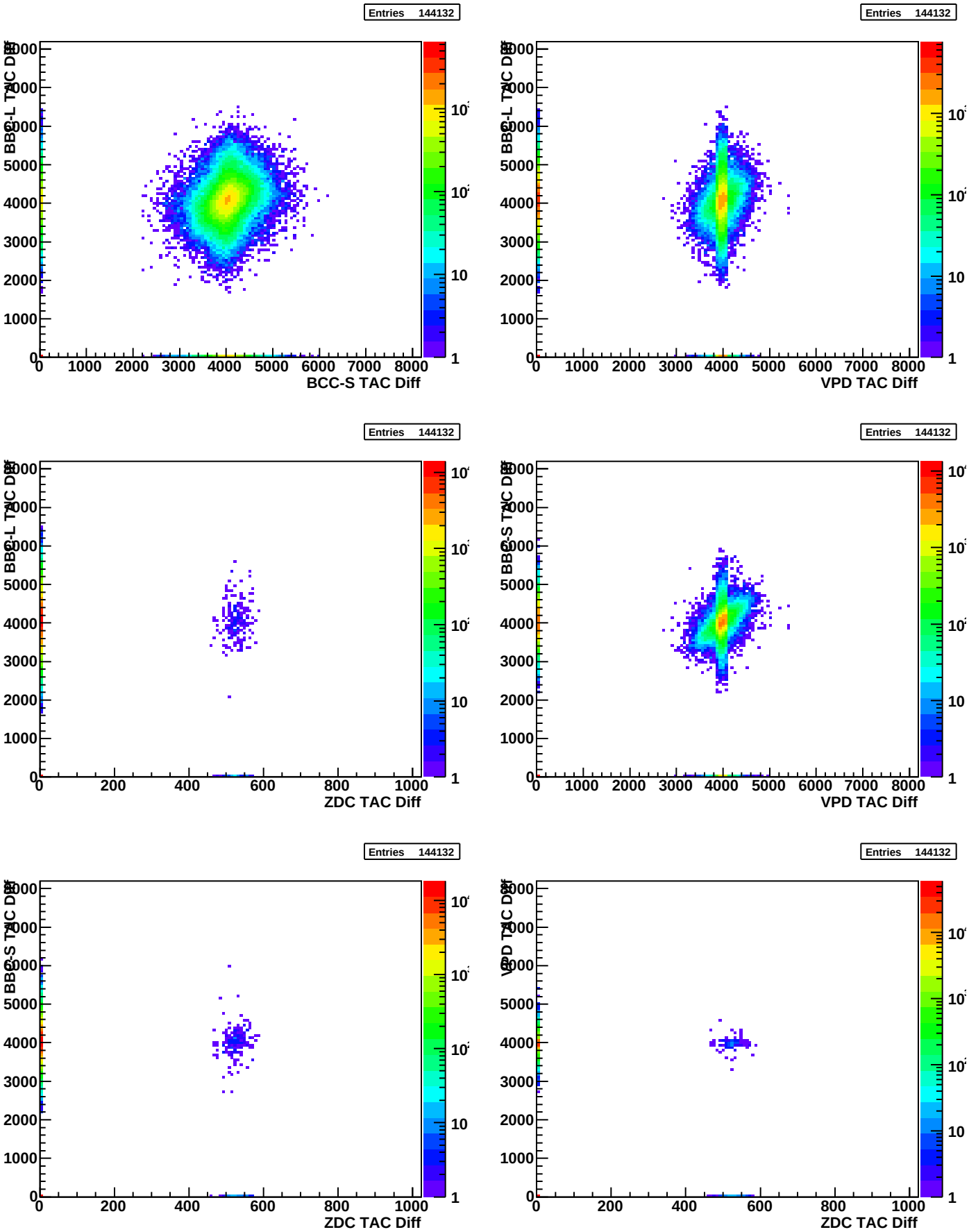

Entries 144132
VPD-West ADC Sum
ZDC-West ADC Sum Att

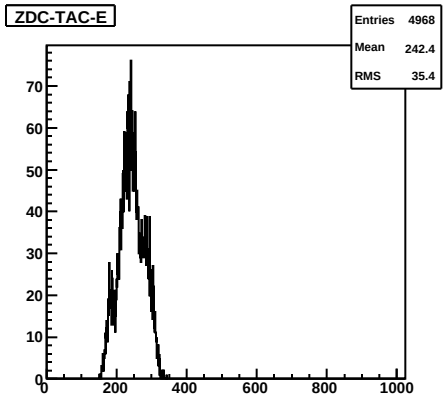

Entries 144132
BBC-L-East ADC Sum
BBC-L-West ADC Sum

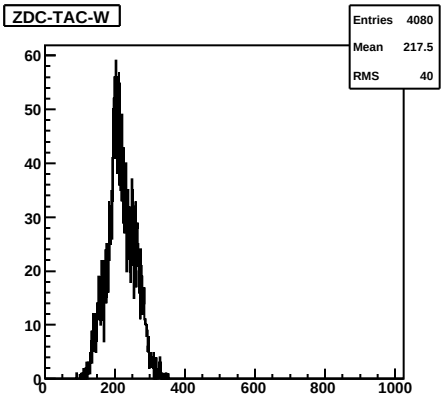

Entries 144132
BBC-S-East ADC Sum
BBC-S-West ADC Sum

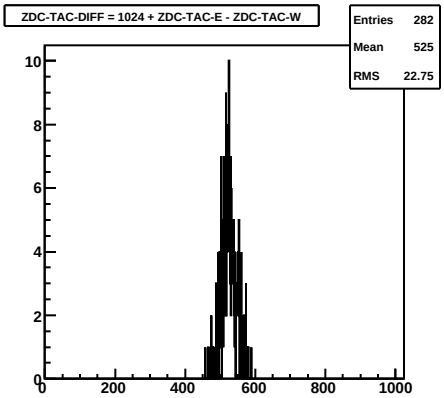

Entries 144132
VPD East ADC Sum
VPD West ADC Sum

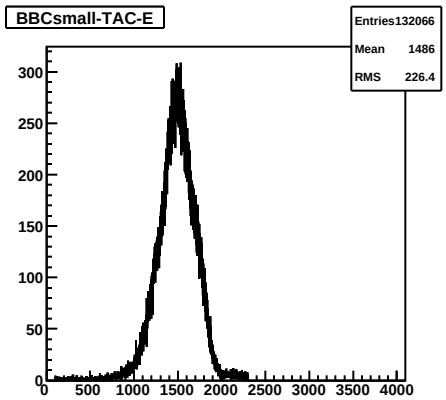

Entries 144132
ZDC East ADC Sum Att
ZDC West ADC Sum Att

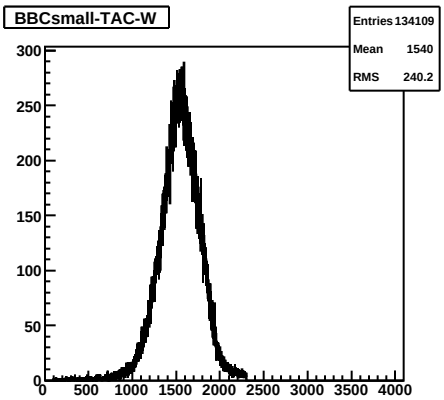

Entries 144132
BBC-L TAC Diff
BCC-S TAC Diff
Entries 144132
BBC-L TAC Diff
VPD TAC Diff
Entries 144132
BBC-L TAC Diff
ZDC TAC Diff
Entries 144132
BBC-S TAC Diff
VPD TAC Diff
Entries 144132
BBC-S TAC Diff
ZDC TAC Diff
Entries 144132
VPD TAC Diff
ZDC TAC Diff

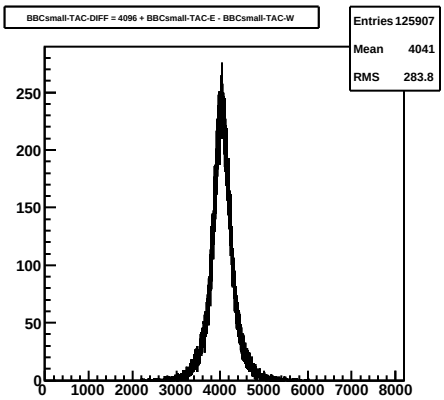

ZDC-TAC-E
Entries 4968
Mean 242.4
RMS 35.4

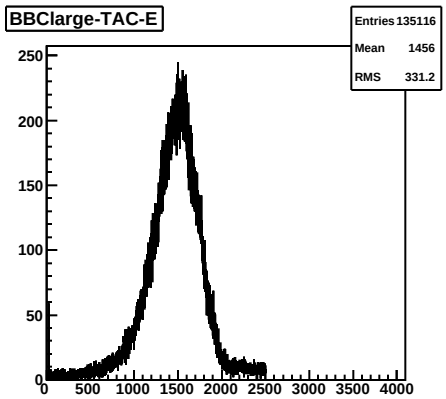

ZDC-TAC-W
Entries 4080
Mean 217.5
RMS 40

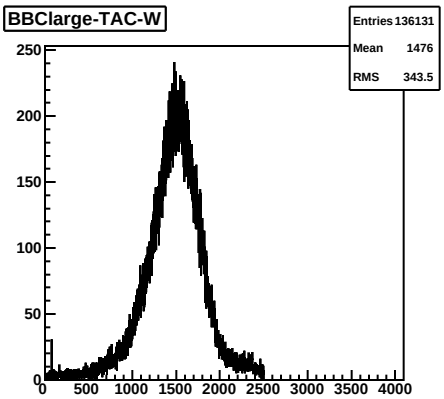

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 282
Mean 525
RMS 22.75

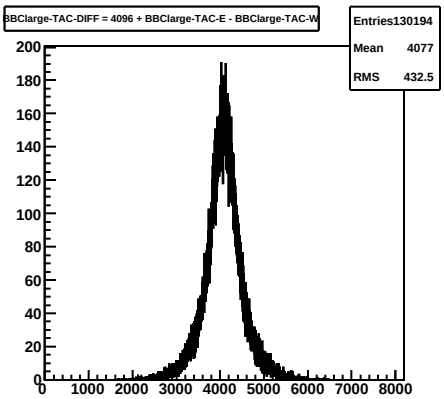

BBCsmall-TAC-E
Entries 132066
Mean 1486
RMS 226.4

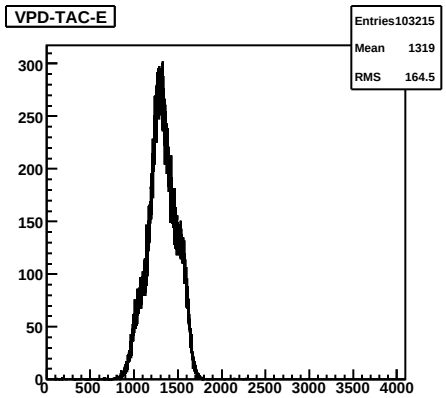

BBCsmall-TAC-W
Entries 134109
Mean 1540
RMS 240.2

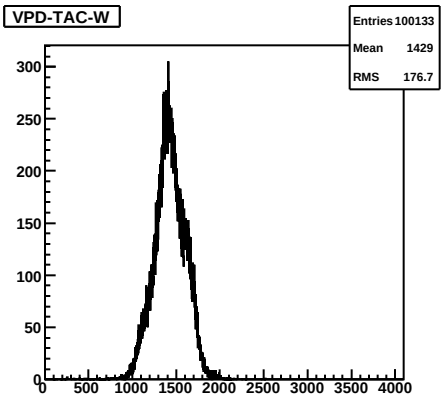

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 125907
Mean 4041
RMS 283.8

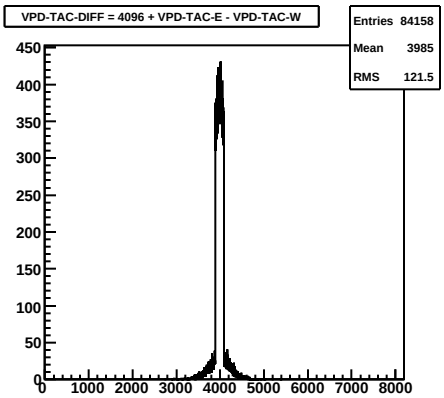

BBClarge-TAC-E
Entries 135116
Mean 1456
RMS 331.2

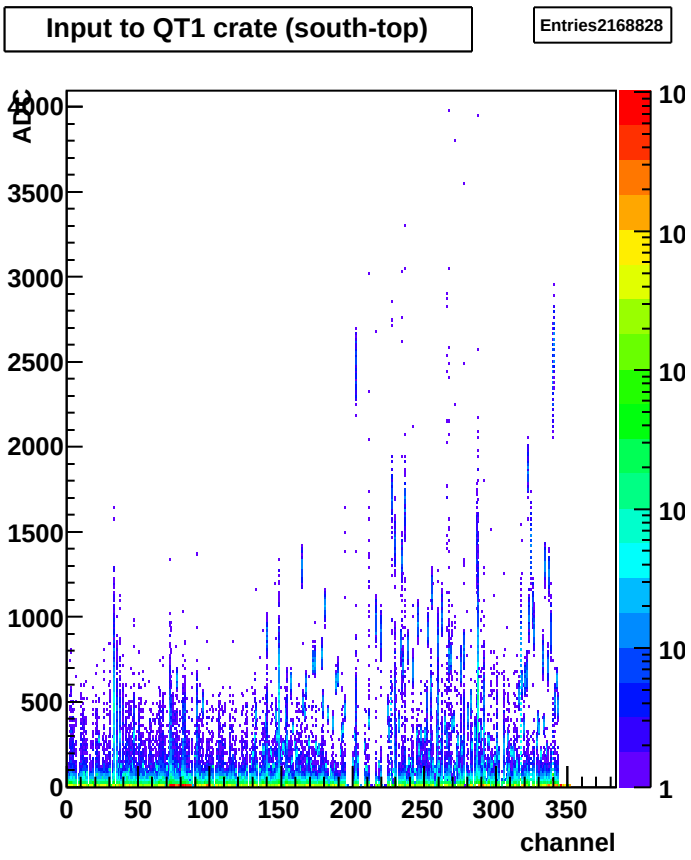

BBClarge-TAC-W
Entries 136131
Mean 1476
RMS 343.5

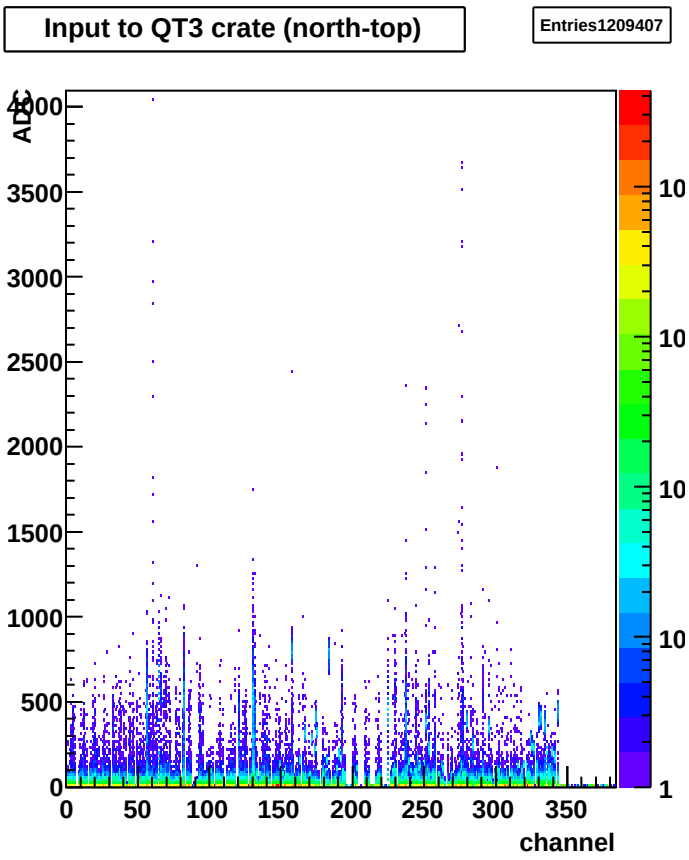

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 130194
Mean 4077
RMS 432.5

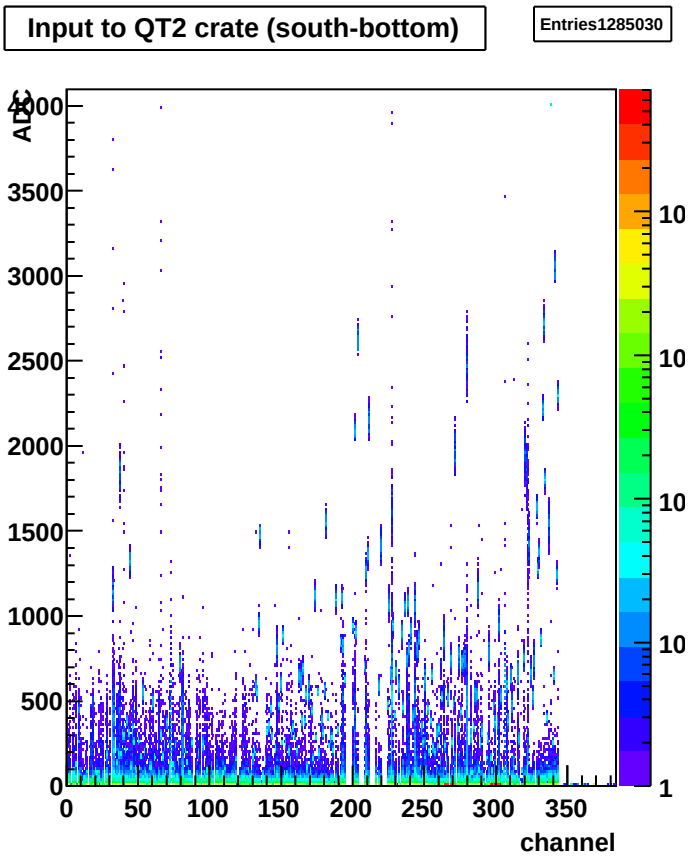

VPD-TAC-E
Entries 103215
Mean 1319
RMS 164.5

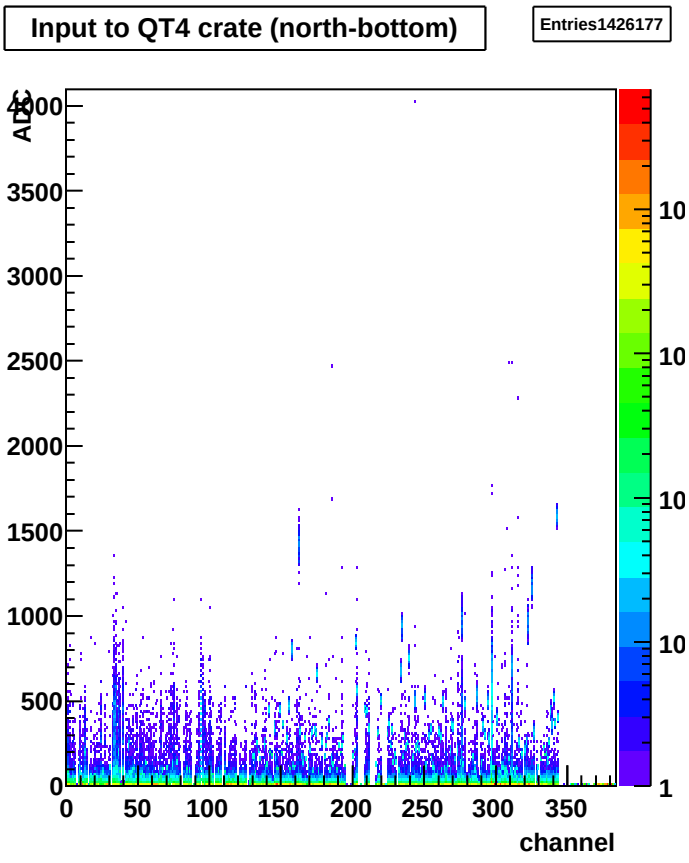

VPD-TAC-W
Entries 100133
Mean 1429
RMS 176.7

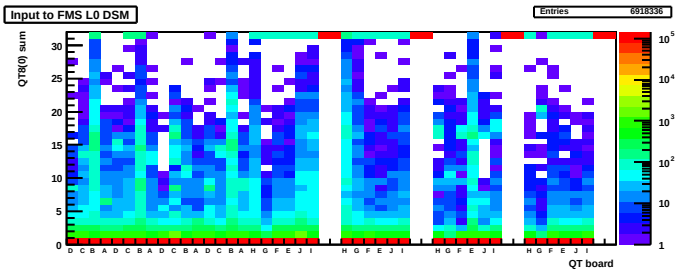

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 84158
Mean 3985
RMS 121.5

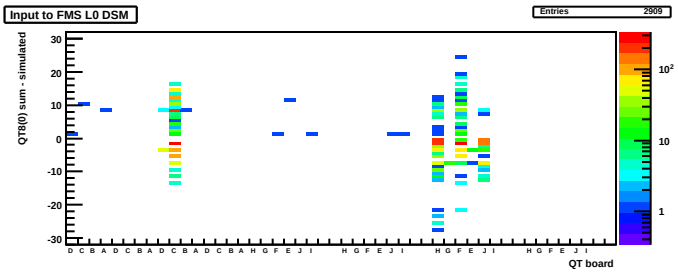

Input to QT1 crate (south-top)
Entries2168828
ADC
channel

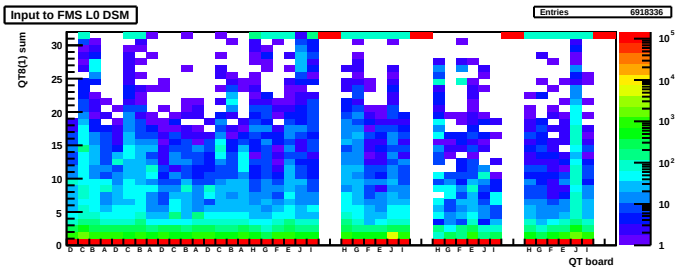

Input to QT3 crate (north-top)
Entries1209407
ADC
channel

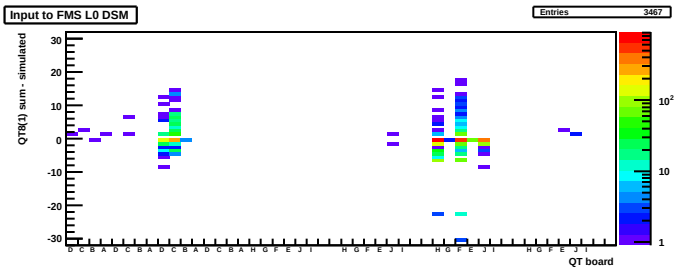

Input to QT2 crate (south-bottom)
Entries1285030
ADC
channel

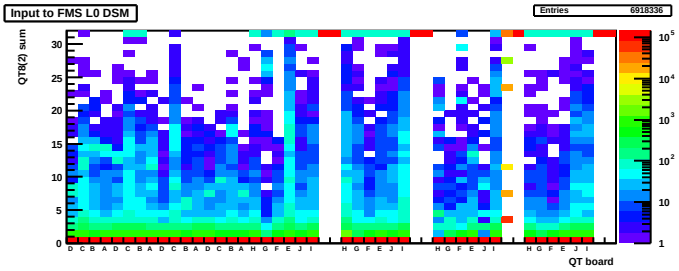

Input to QT4 crate (north-bottom)
Entries1426177
ADC
channel

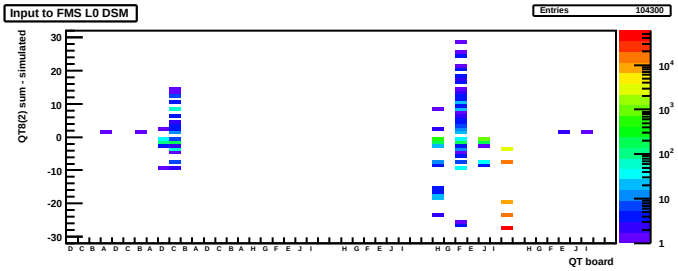

Input to FMS L0 DSM
Entries 6918336
QT8(0) sum
QT board

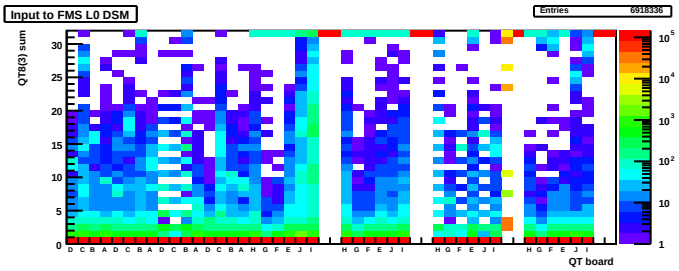

Input to FMS L0 DSM
Entries 2909
QT8(0) sum - simulated
QT board

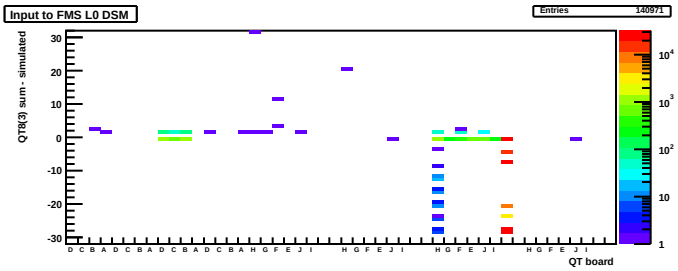

Input to FMS L0 DSM
Entries 6918336
QT8(1) sum
QT board

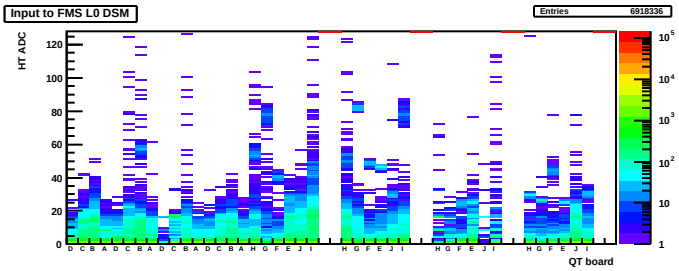

Input to FMS L0 DSM
Entries 3467
QT8(1) sum - simulated
QT board

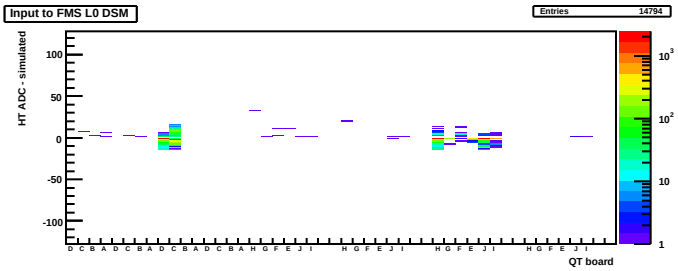

Input to FMS L0 DSM
Entries 6918336
QT8(2) sum
QT board

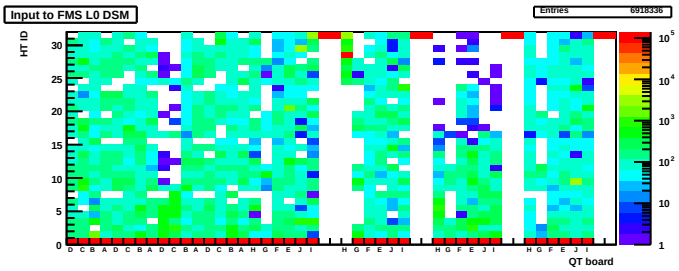

Input to FMS L0 DSM
Entries 104300
QT8(2) sum - simulated
QT board

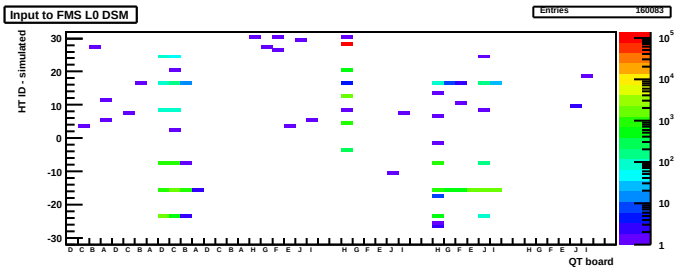

Input to FMS L0 DSM
Entries 6918336
QT8(3) sum
QT board

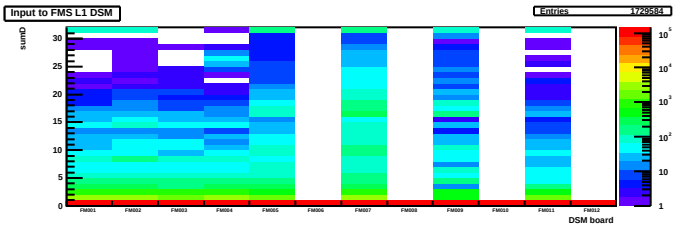

Input to FMS L0 DSM
Entries 140971
QT8(3) sum - simulated
QT board

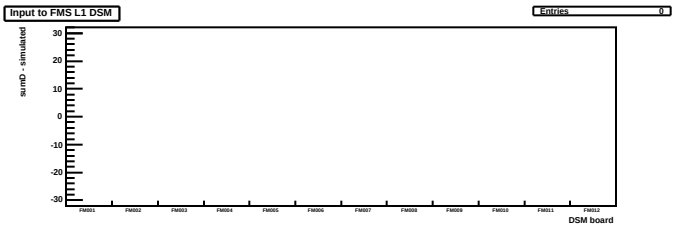

Input to FMS L0 DSM
Entries 6918336
HT ADC
QT board

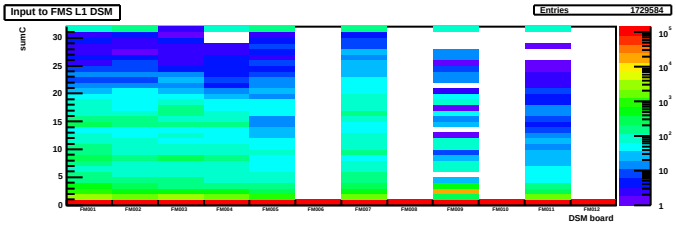

Input to FMS L0 DSM
Entries 14794
HT ADC - simulated
QT board

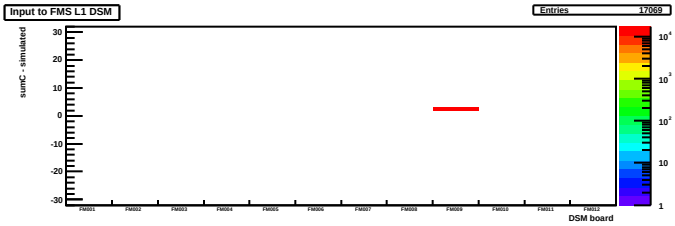

Input to FMS L0 DSM
Entries 6918336
HT ID
QT board

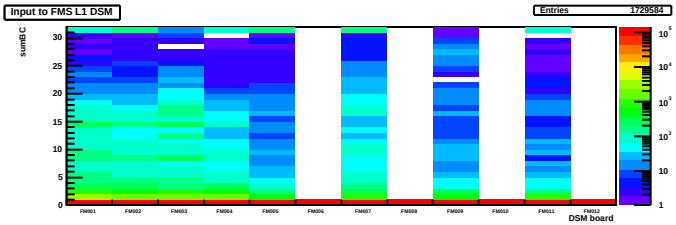

Input to FMS L0 DSM
Entries 160083
HT ID - simulated
QT board

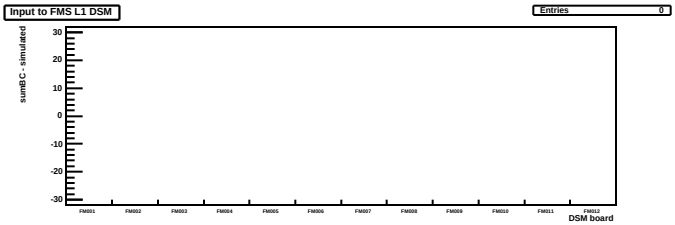

Input to FMS L1 DSM
Entries 1729584
sumD
DSM board

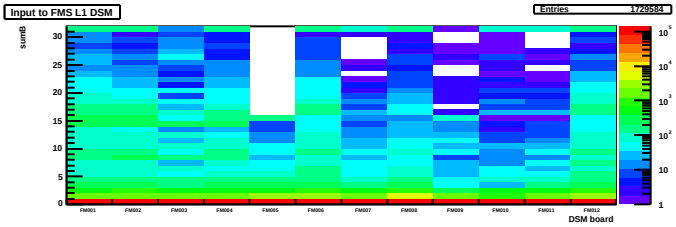

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

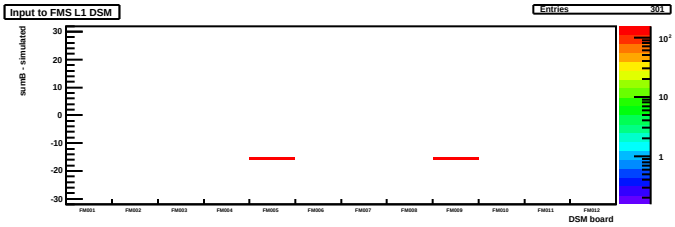

Input to FMS L1 DSM
Entries 1729584
sumC
DSM board

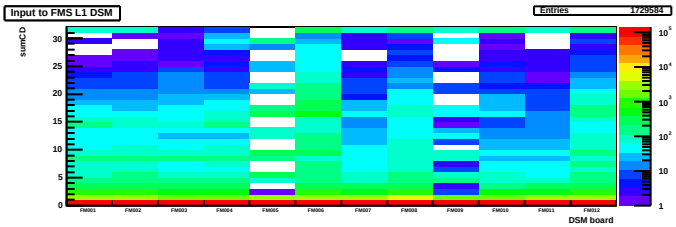

Input to FMS L1 DSM
Entries 17069
sumC - simulated
DSM board

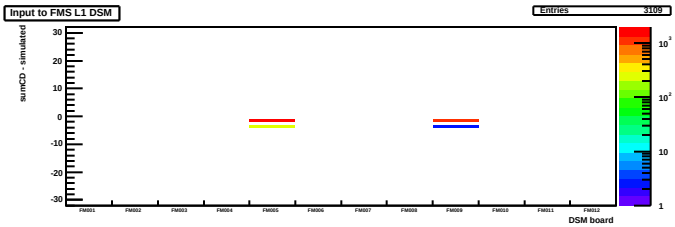

Input to FMS L1 DSM
Entries 1729584
sumBC
DSM board

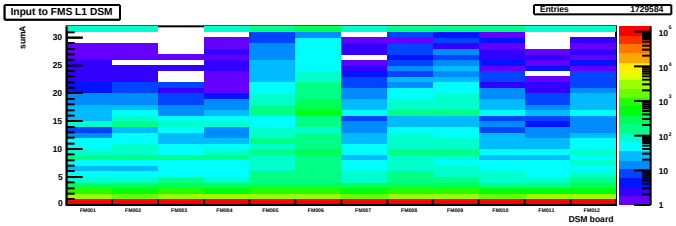

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

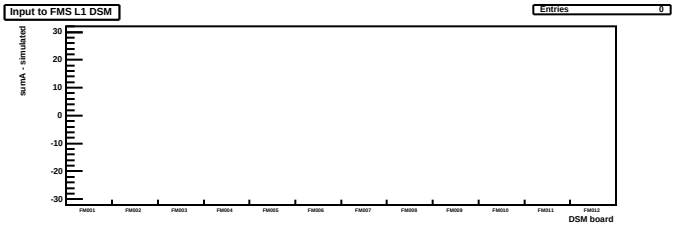

Input to FMS L1 DSM
Entries 1729584
sumB
DSM board

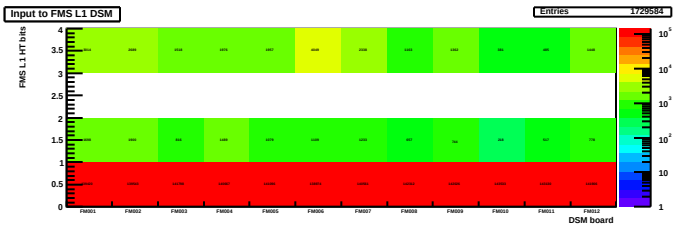

Input to FMS L1 DSM
Entries 301
sumB - simulated
DSM board

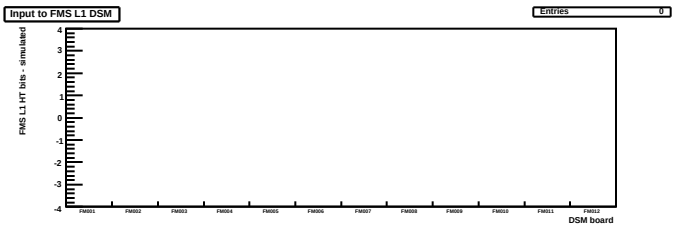

Input to FMS L1 DSM
Entries 1729584
sumCD
DSM board

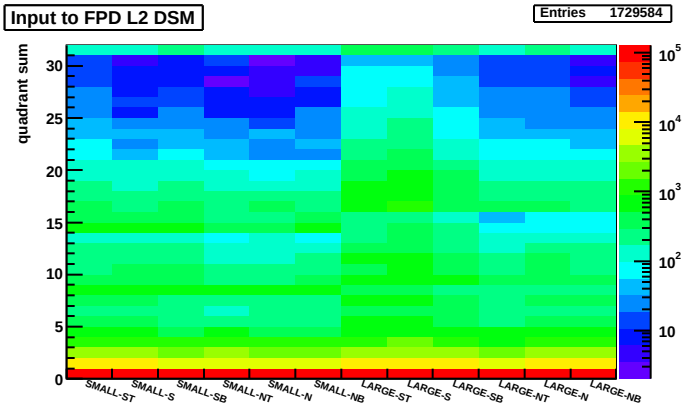

Input to FMS L1 DSM
Entries 3109
sumCD - simulated
DSM board

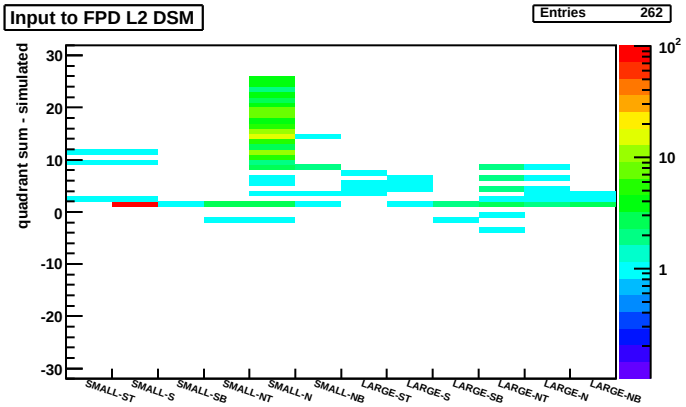

Input to FMS L1 DSM
Entries 1729584
sumA
DSM board

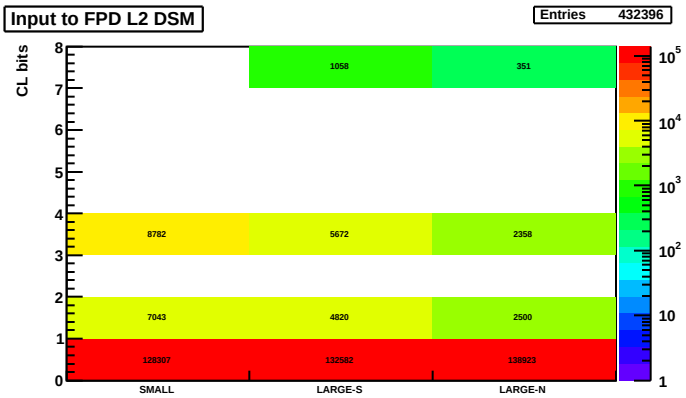

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

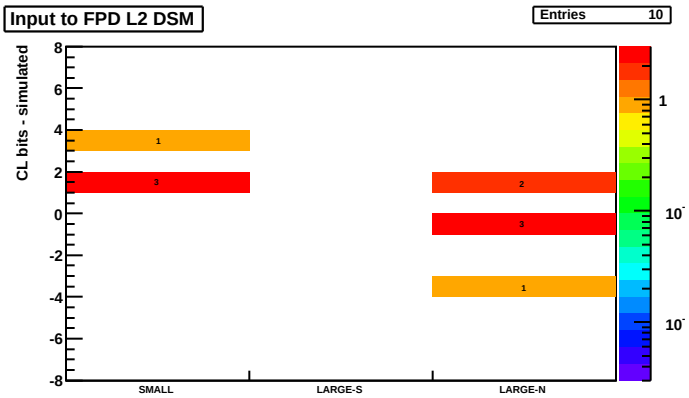

Input to FMS L1 DSM
Entries 1729584
FMS L1 HT bits
DSM board

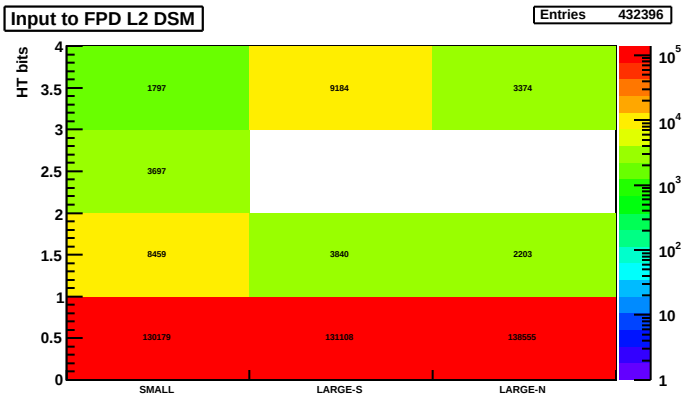

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

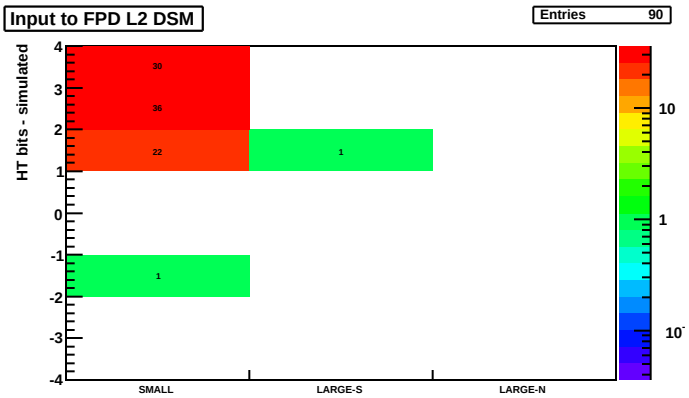

Input to FPD L2 DSM
Entries 1729584
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

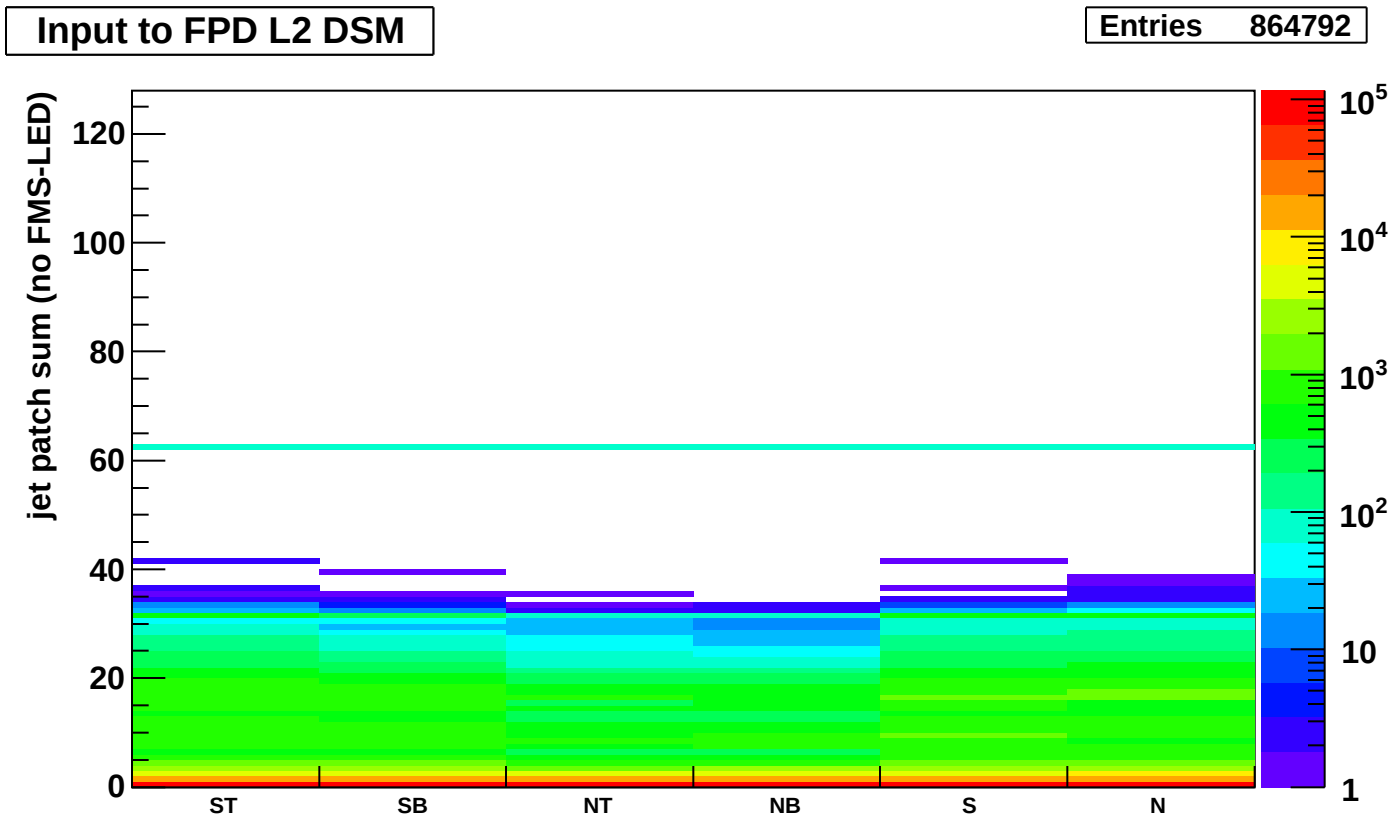

Input to FPD L2 DSM
Entries 262
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

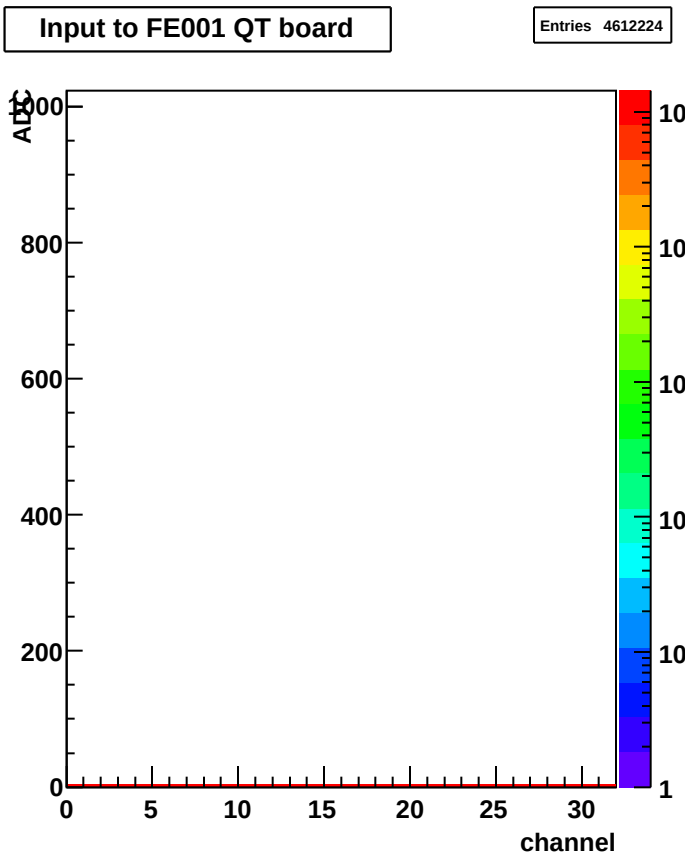

Input to FPD L2 DSM
Entries 432396
CL bits
1058
351
8782
5672
2358
7043
4820
2500
128307
132582
138923
SMALL
LARGE-S
LARGE-N

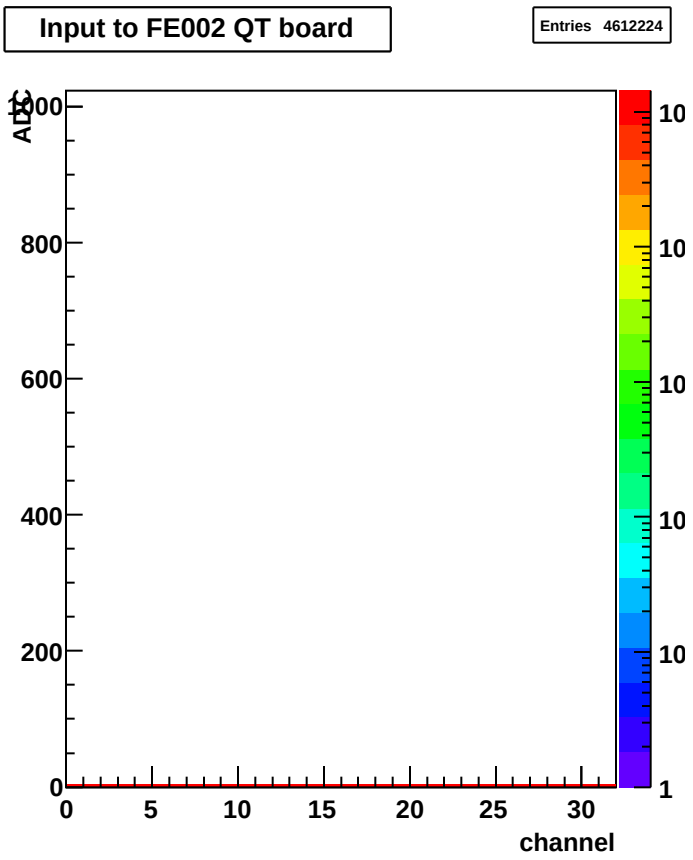

Input to FPD L2 DSM
Entries 10
CL bits - simulated
1
3
2
3
1
SMALL
LARGE-S
LARGE-N

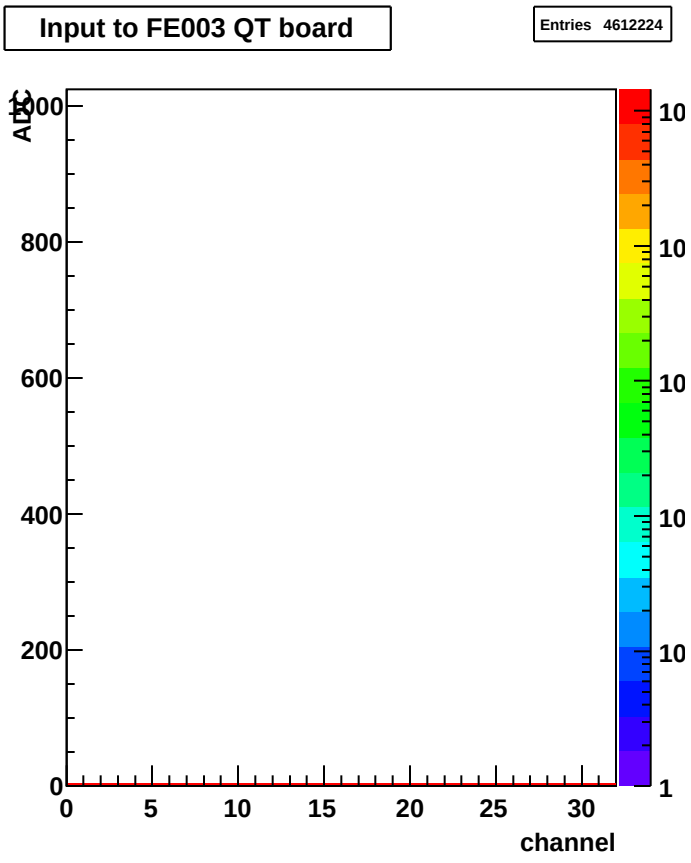

Input to FPD L2 DSM
Entries 432396
HT bits
1797
9184
3374
3697
8459
3840
2203
130179
131108
138555
SMALL
LARGE-S
LARGE-N

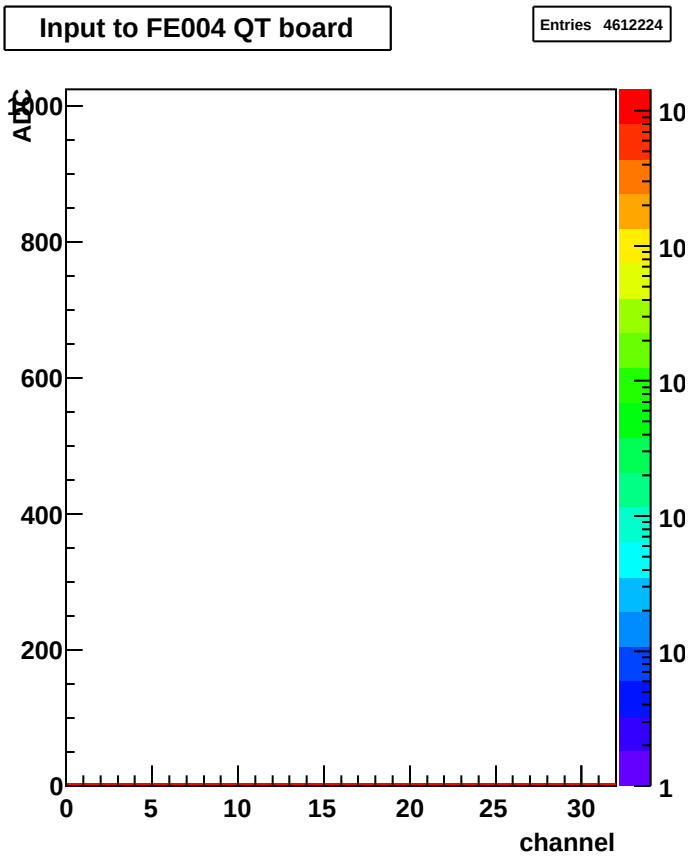

Input to FPD L2 DSM
Entries 90
HT bits - simulated
30
36
22
1
1
SMALL
LARGE-S
LARGE-N

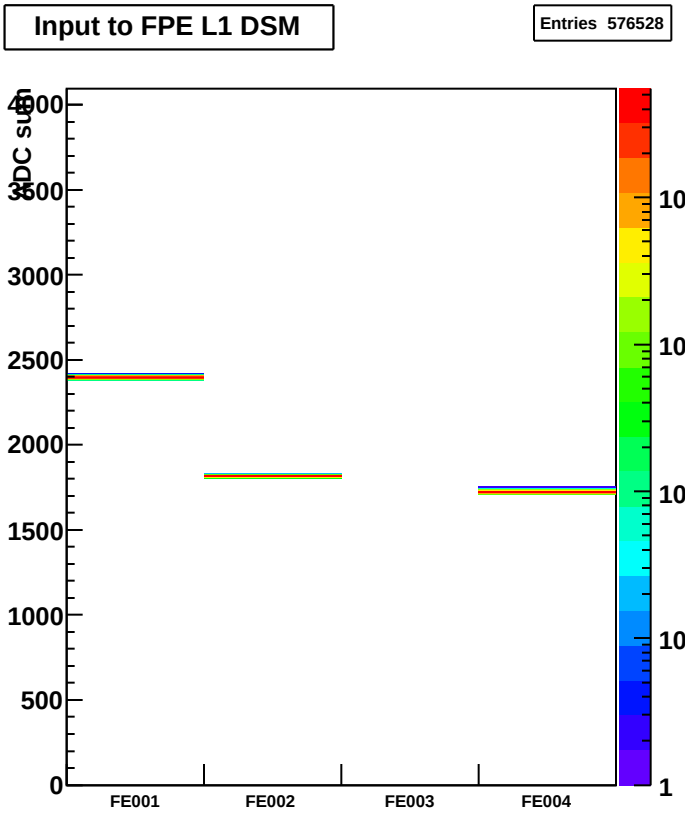

Input to FPD L2 DSM
Entries 864792
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

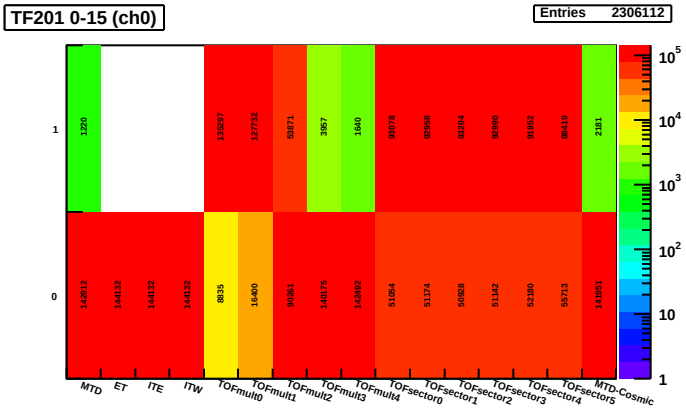

Input to FE001 QT board
Entries 4612224
ADC
channel

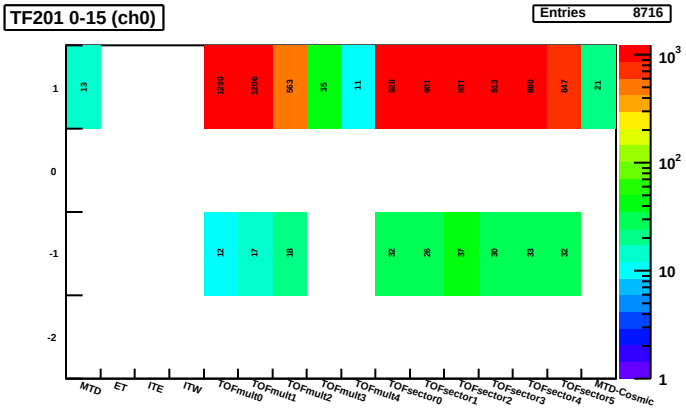

Input to FE002 QT board
Entries 4612224
ADC
channel

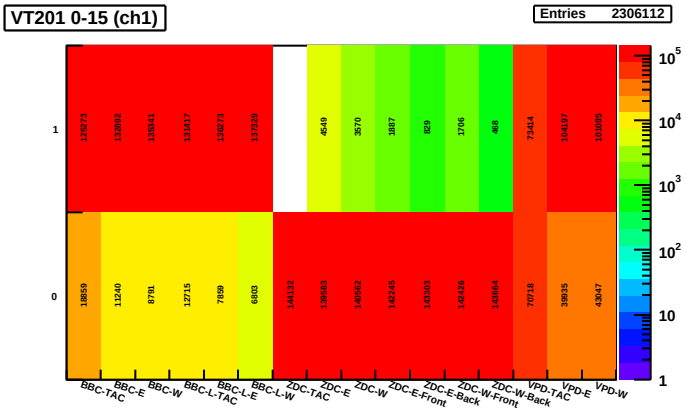

Input to FE003 QT board
Entries 4612224
ADC
channel

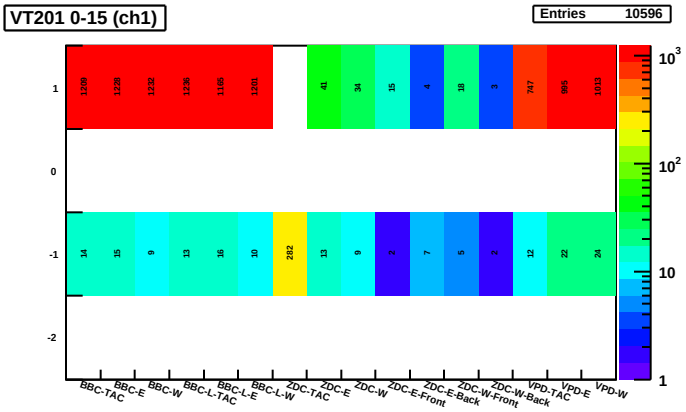

Input to FE004 QT board
Entries 4612224
ADC
channel

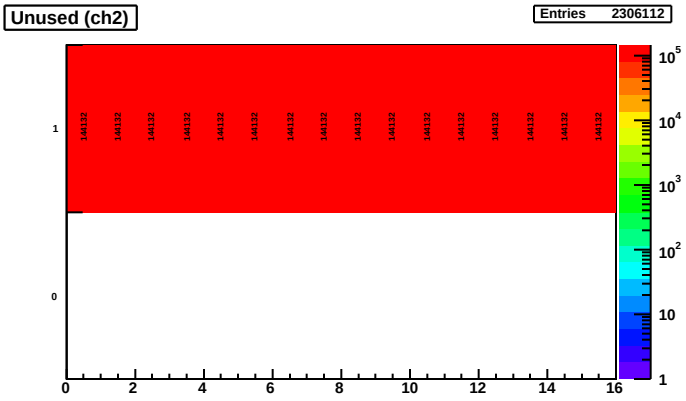

Input to FPE L1 DSM
Entries 576528
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

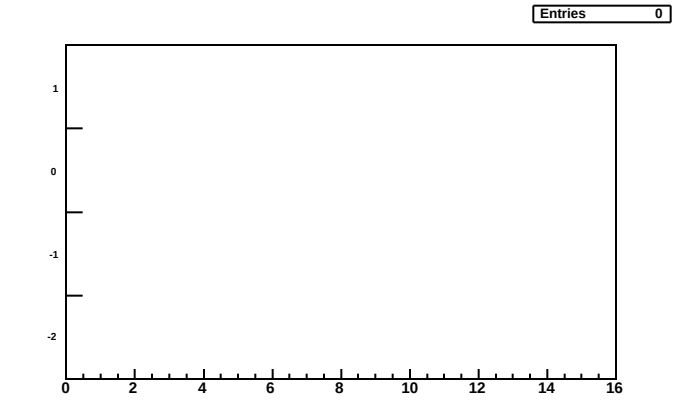

TF201 0-15 (ch0)
Entries 2306112
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

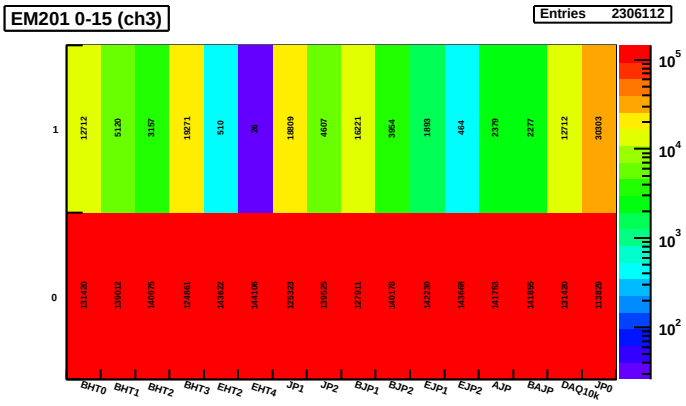

TF201 0-15 (ch0)
Entries 8716
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2306112
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 10596
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 2306112


Entries 0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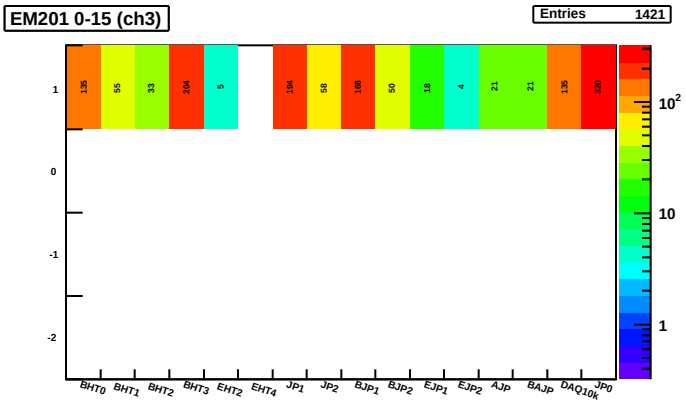
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Entries 1421
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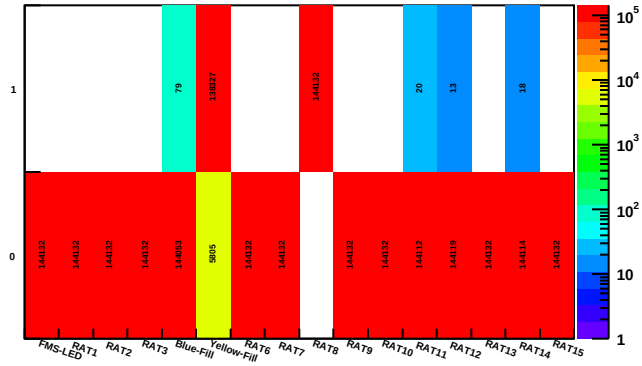
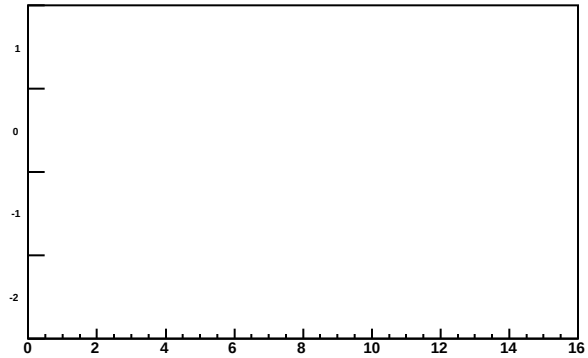
RAT board (ch4)





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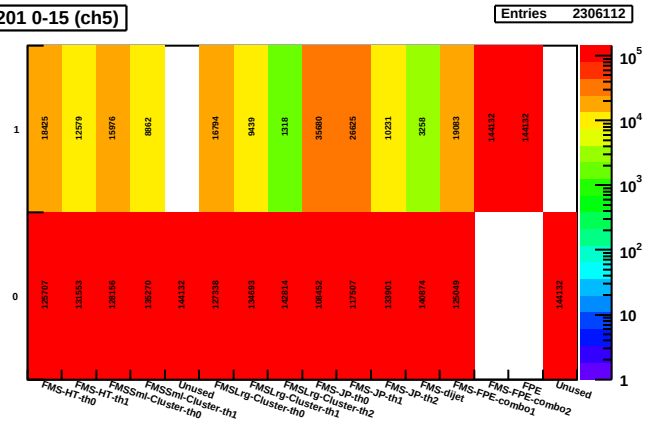

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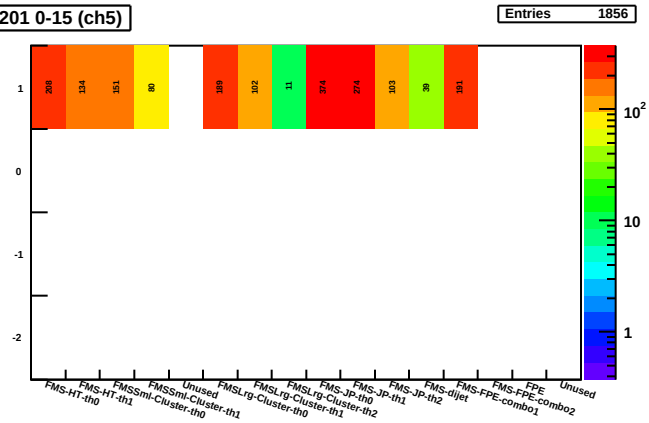

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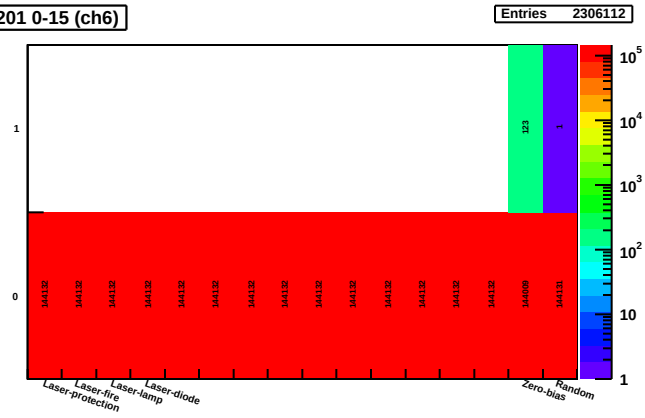

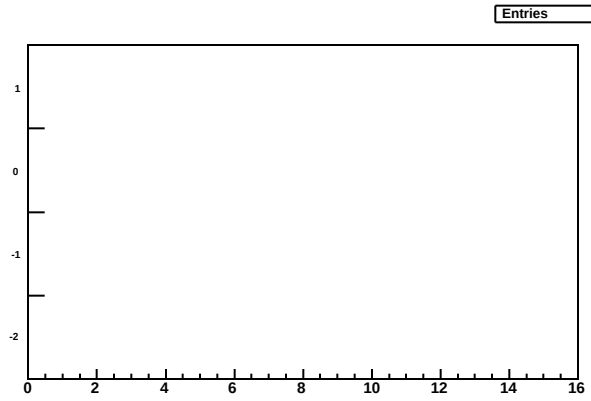
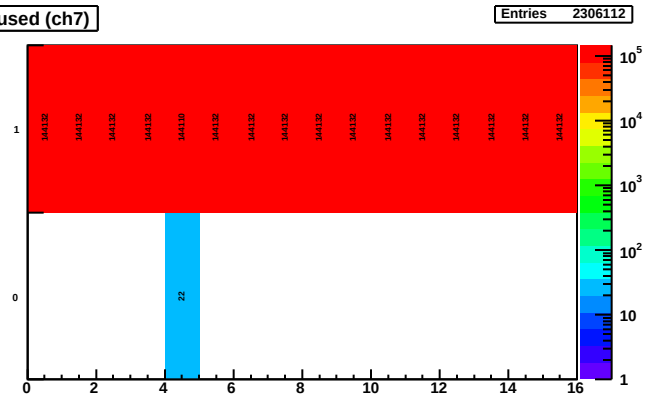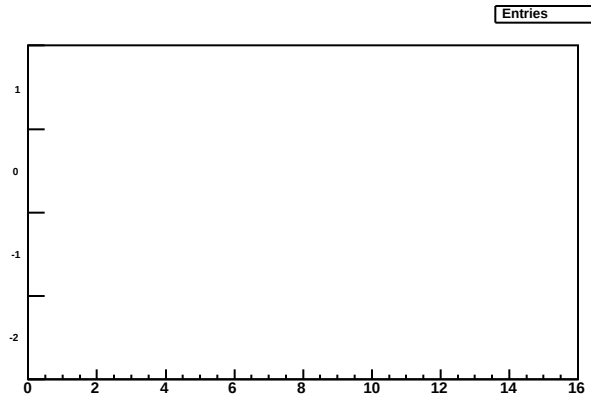
Unused (ch7)