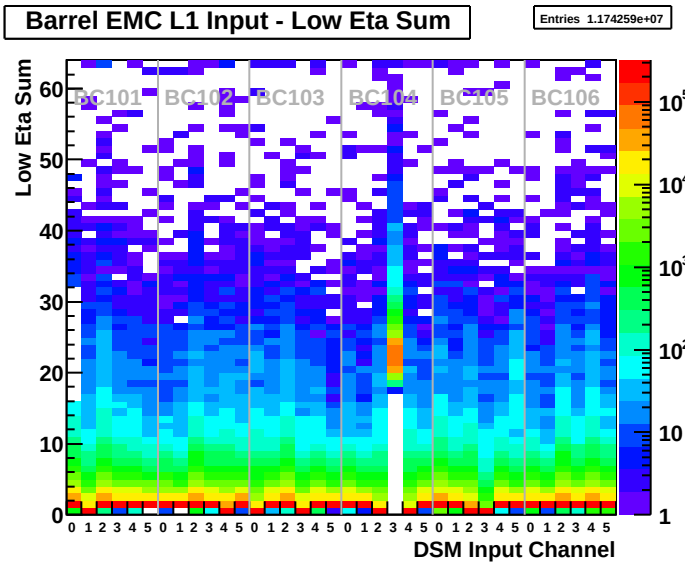
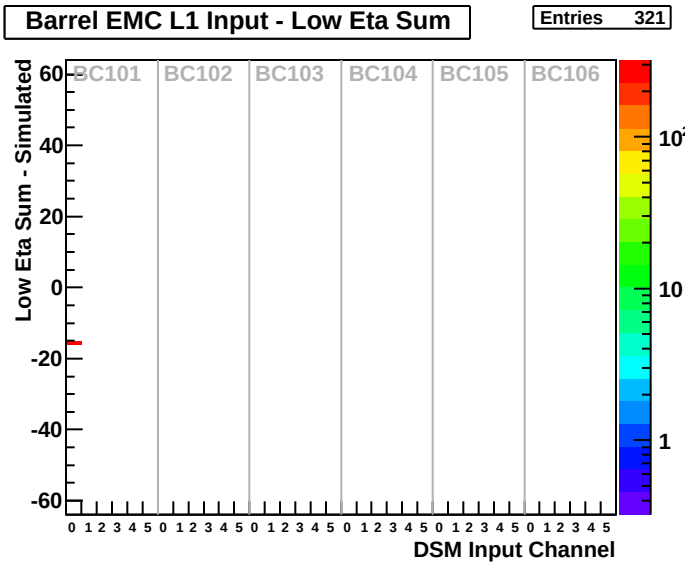
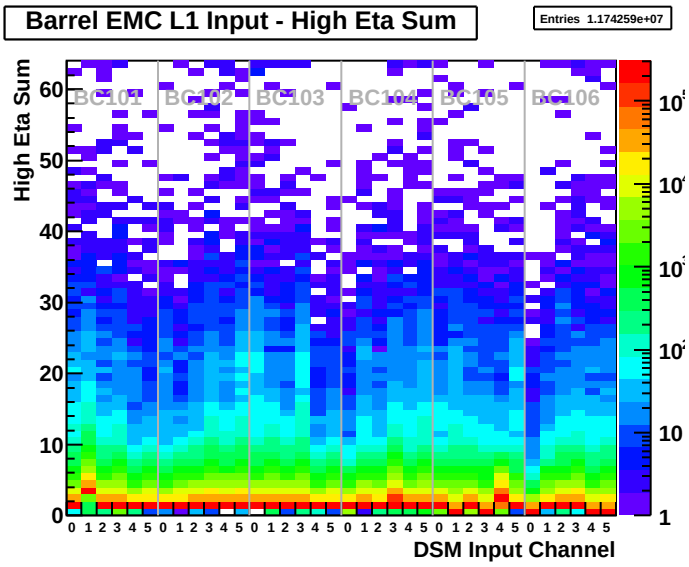
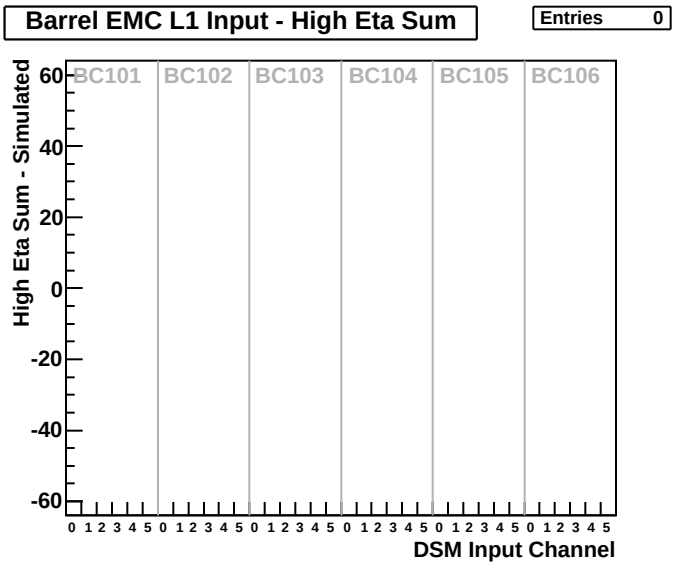
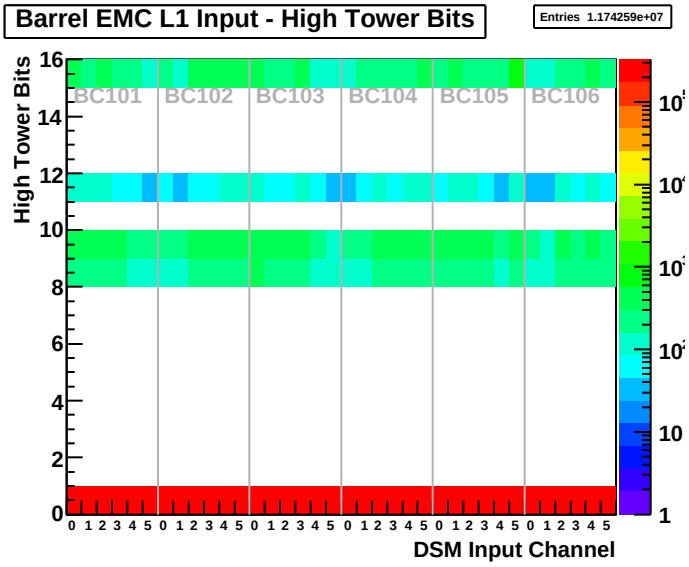
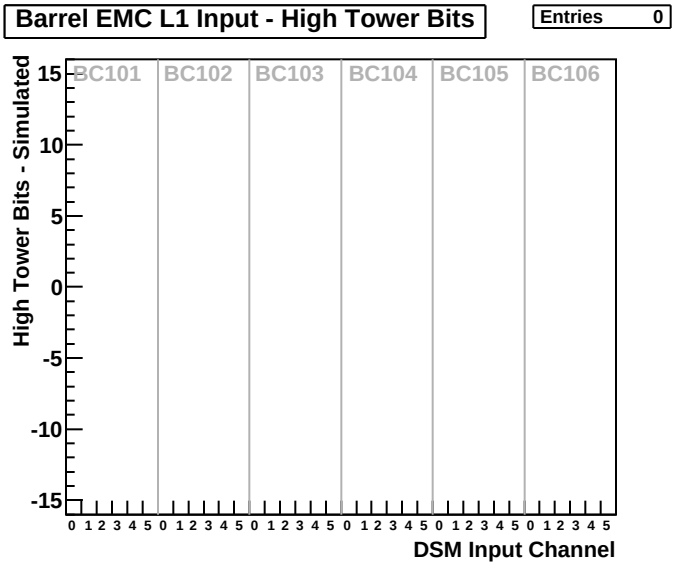

Barrel EMC L1 Input - Low Eta Sum
Entries 1.174259e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

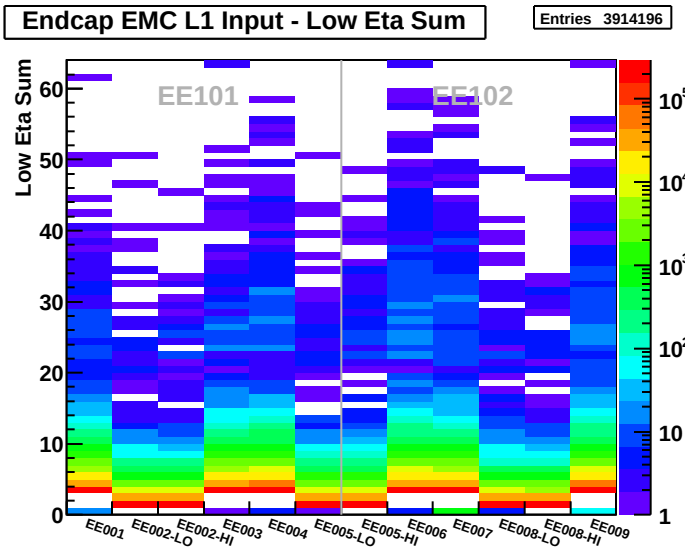

Barrel EMC L1 Input - Low Eta Sum
Entries 321
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

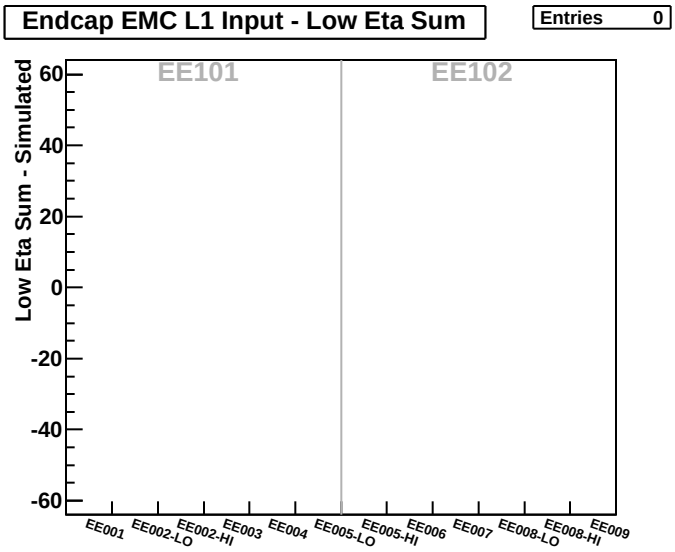

Barrel EMC L1 Input - High Eta Sum
Entries 1.174259e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

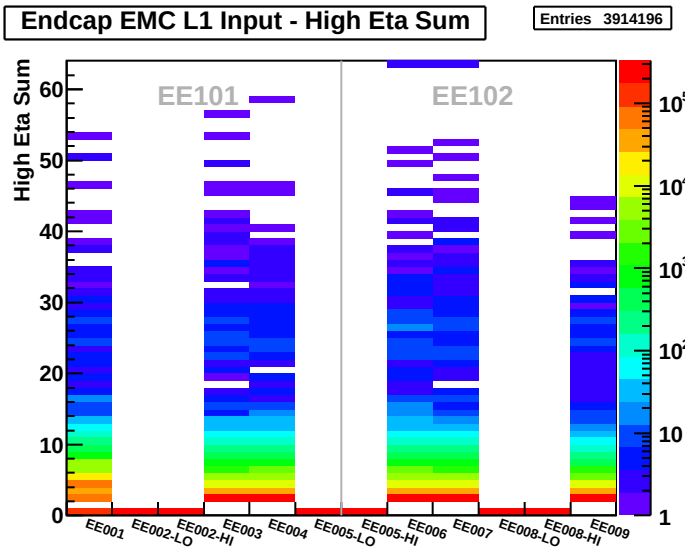

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

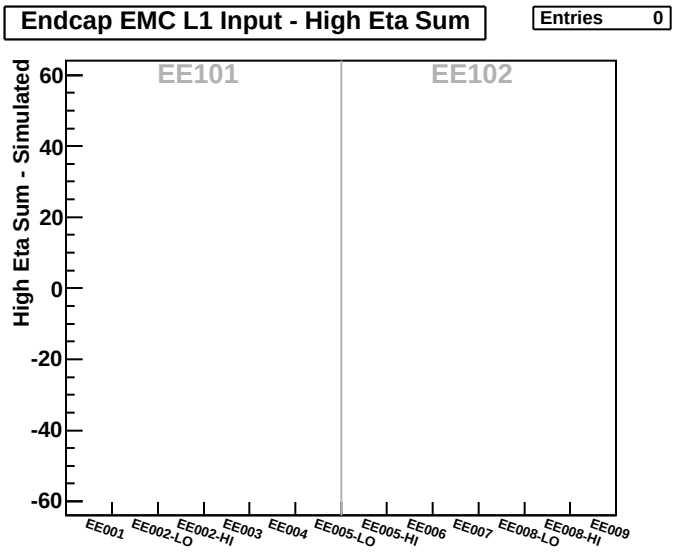

Barrel EMC L1 Input - High Tower Bits
Entries 1.174259e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

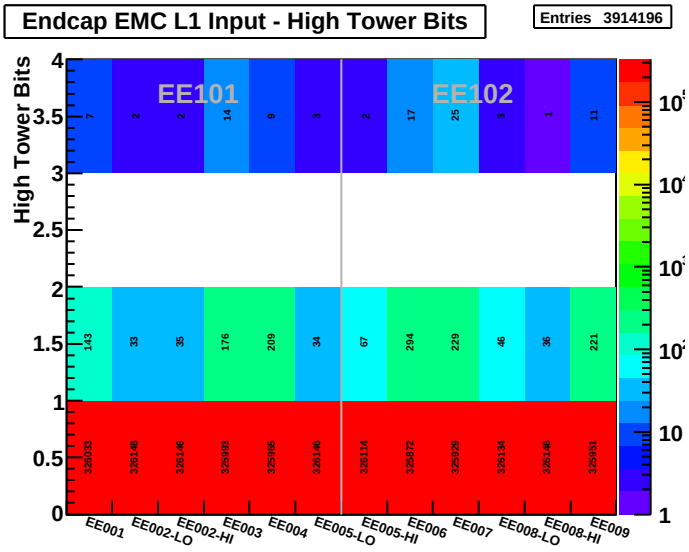

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

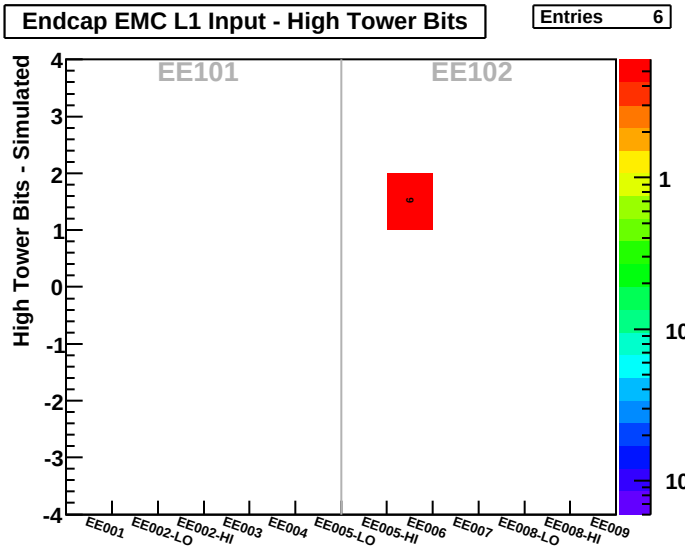

Endcap EMC L1 Input - Low Eta Sum
Entries 3914196
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

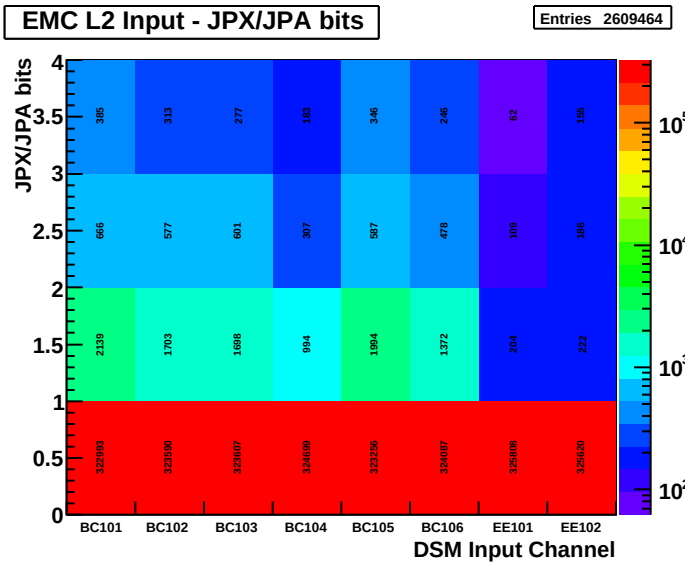

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

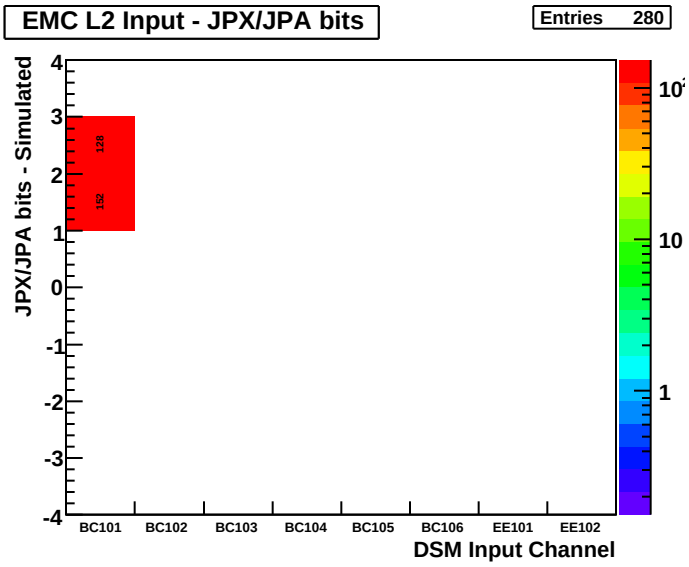

Endcap EMC L1 Input - High Eta Sum
Entries 3914196
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

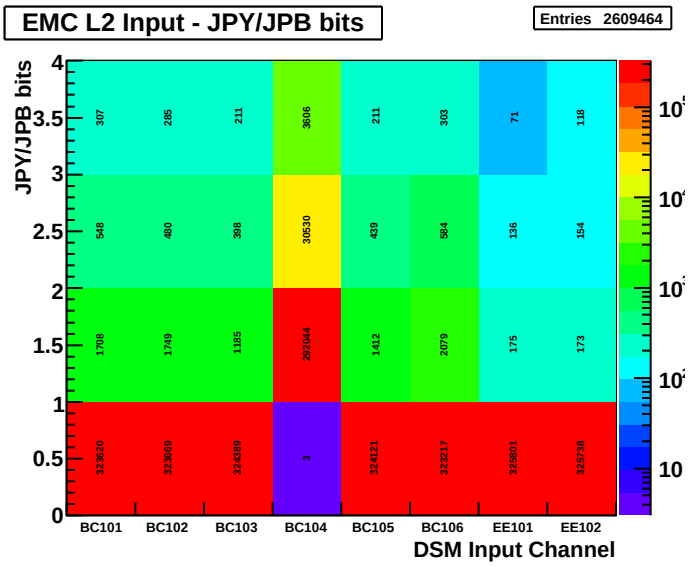

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

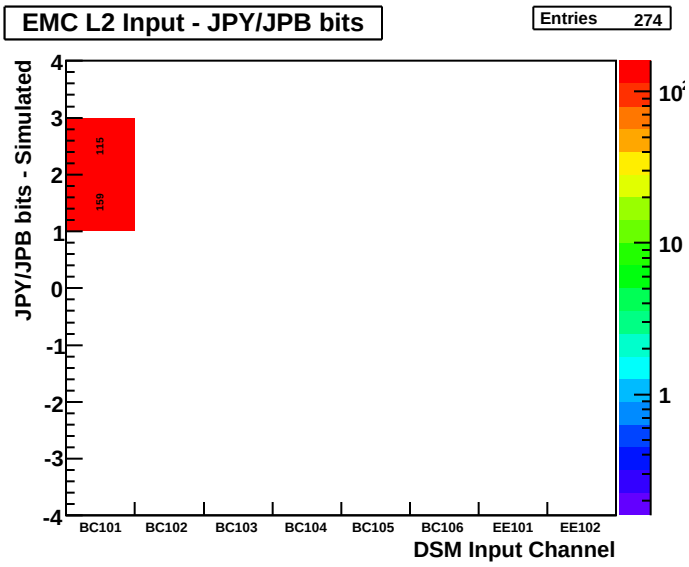

Endcap EMC L1 Input - High Tower Bits
Entries 3914196
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

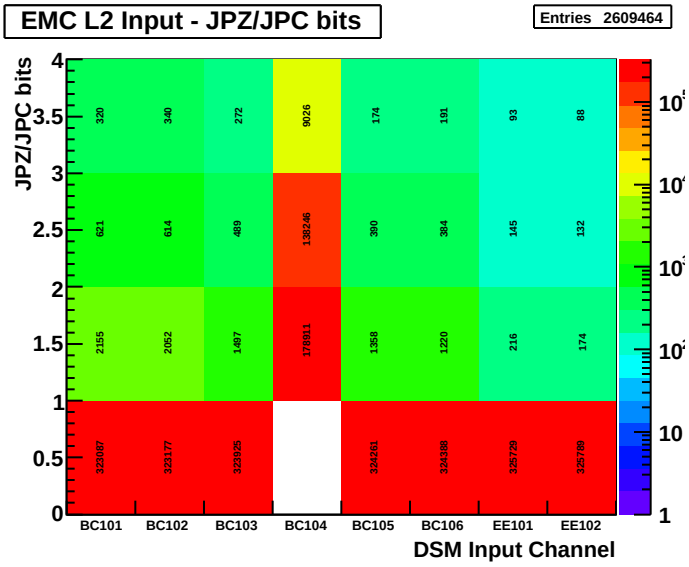

Endcap EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

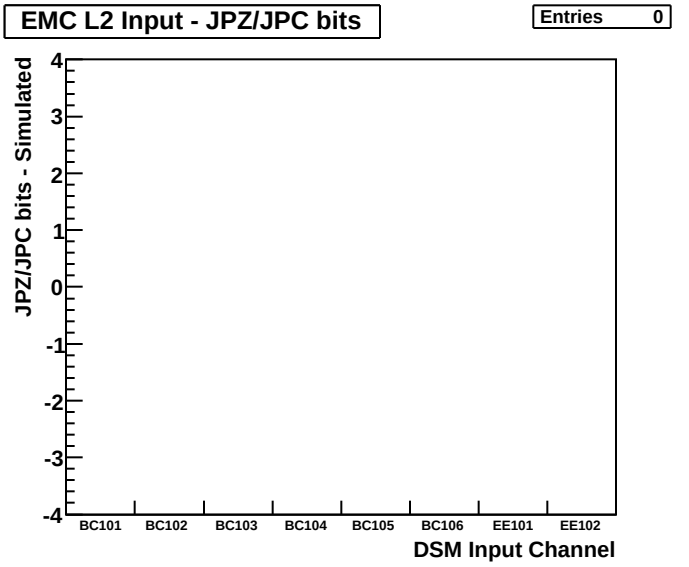

EMC L2 Input - JPX/JPA bits
Entries 2609464
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
385 313 277 183 346 246 62 155
666 577 601 307 587 478 109 186
2139 1703 1698 994 1994 1372 204 222
322993 323590 323607 324699 322256 324087 325808 325620

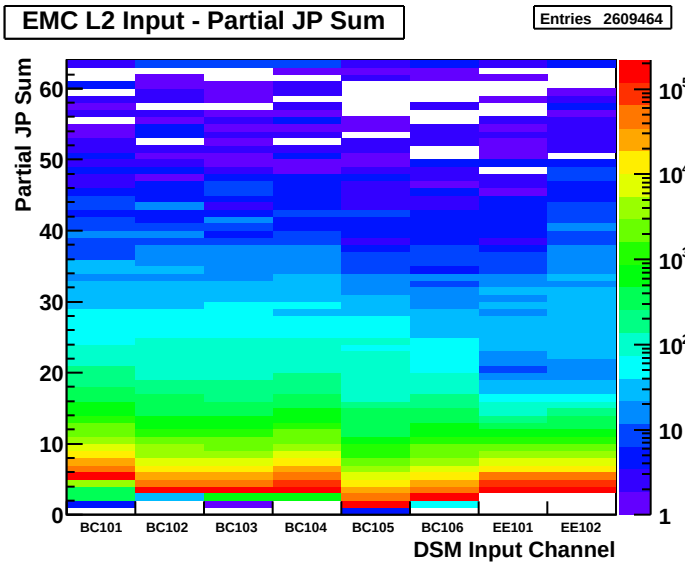

EMC L2 Input - JPX/JPA bits
Entries 280
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
128
152

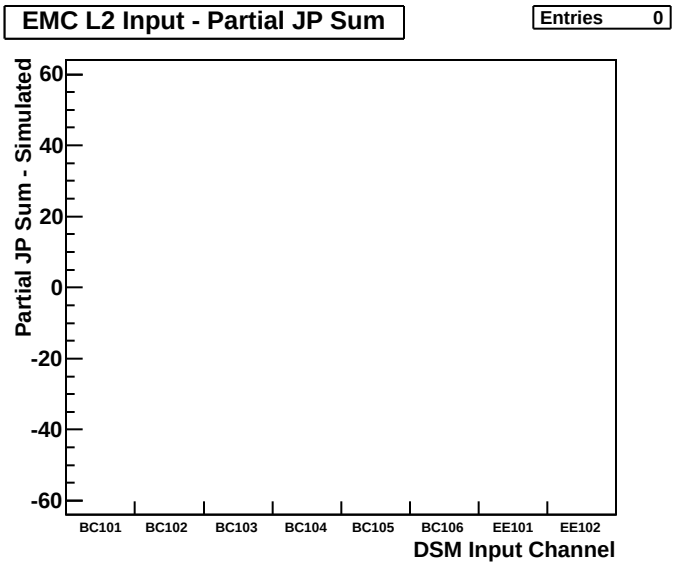

EMC L2 Input - JPY/JPB bits
Entries 2609464
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
307 285 211 3606 211 303 71 118
548 480 398 30530 439 584 136 154
1708 1749 1185 292044 1412 2079 175 173
323820 323669 324389 3 324121 323217 325801 325738

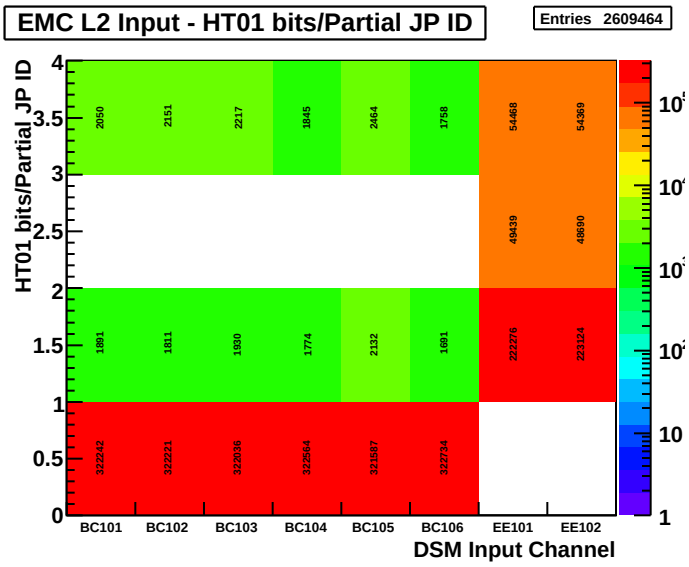

EMC L2 Input - JPY/JPB bits
Entries 274
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
115
159

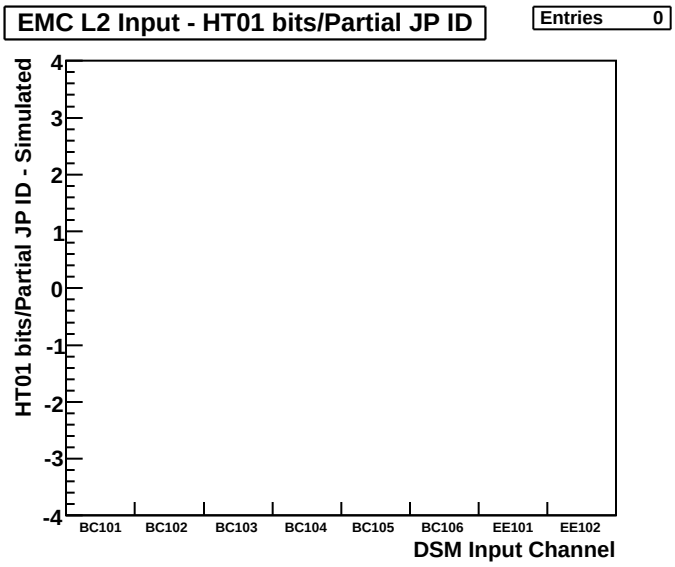

EMC L2 Input - JPZ/JPC bits
Entries 2609464
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
320 340 272 9026 174 191 93 88
621 614 489 138246 390 384 145 132
2155 2052 1487 178911 1358 1220 216 174
323087 323177 323925 324261 324388 325729 325789

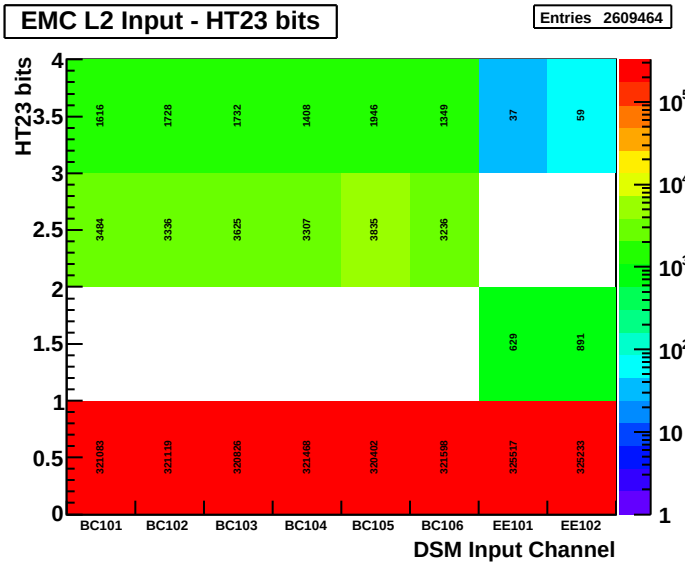

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

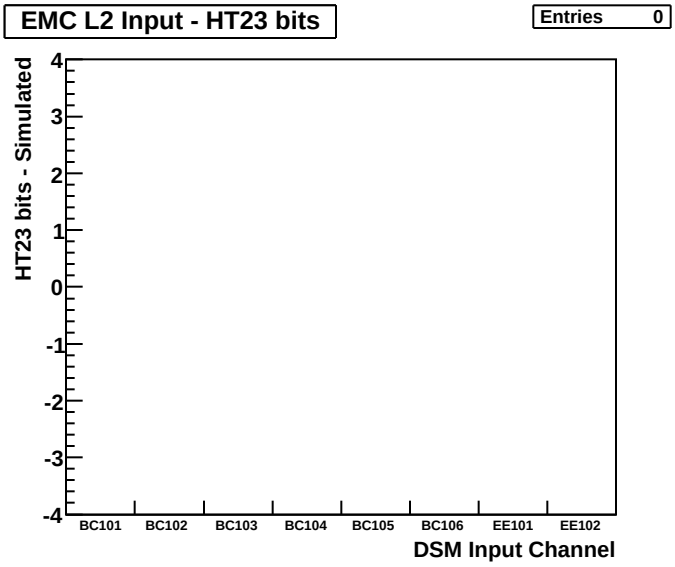

EMC L2 Input - Partial JP Sum
Entries 2609464
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

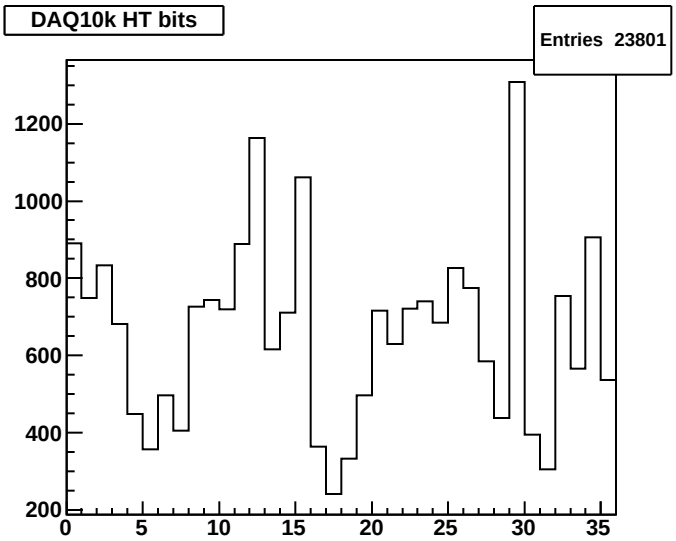

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

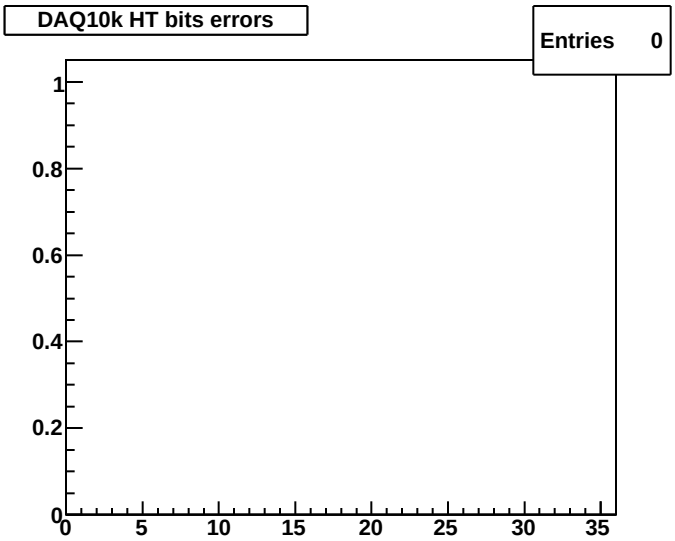

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2609464
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

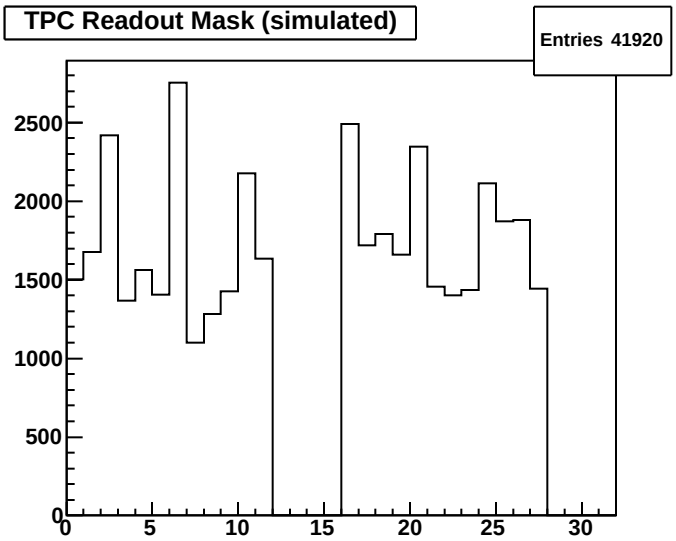

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

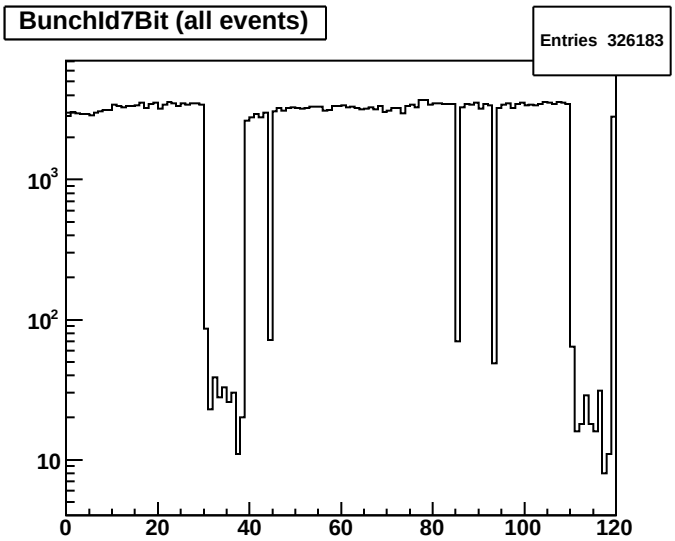

EMC L2 Input - HT23 bits
Entries 2609464
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

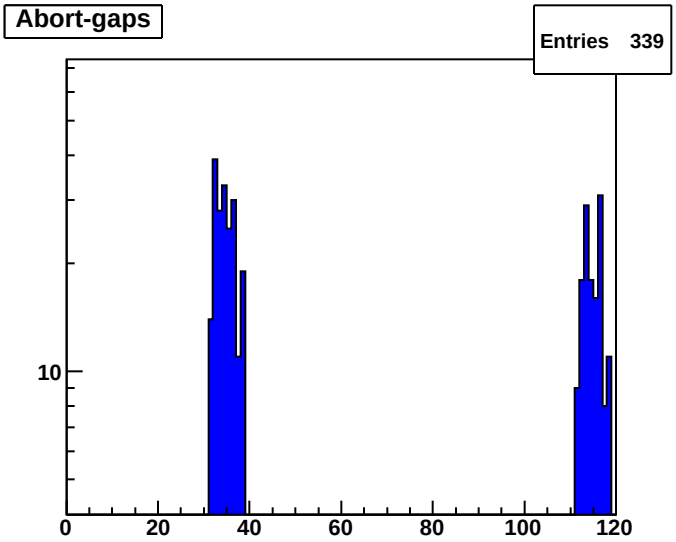

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

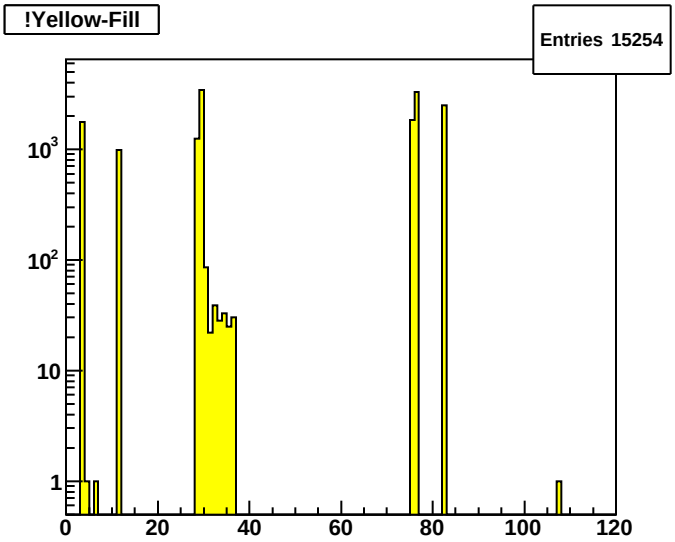

DAQ10k HT bits
Entries 23801

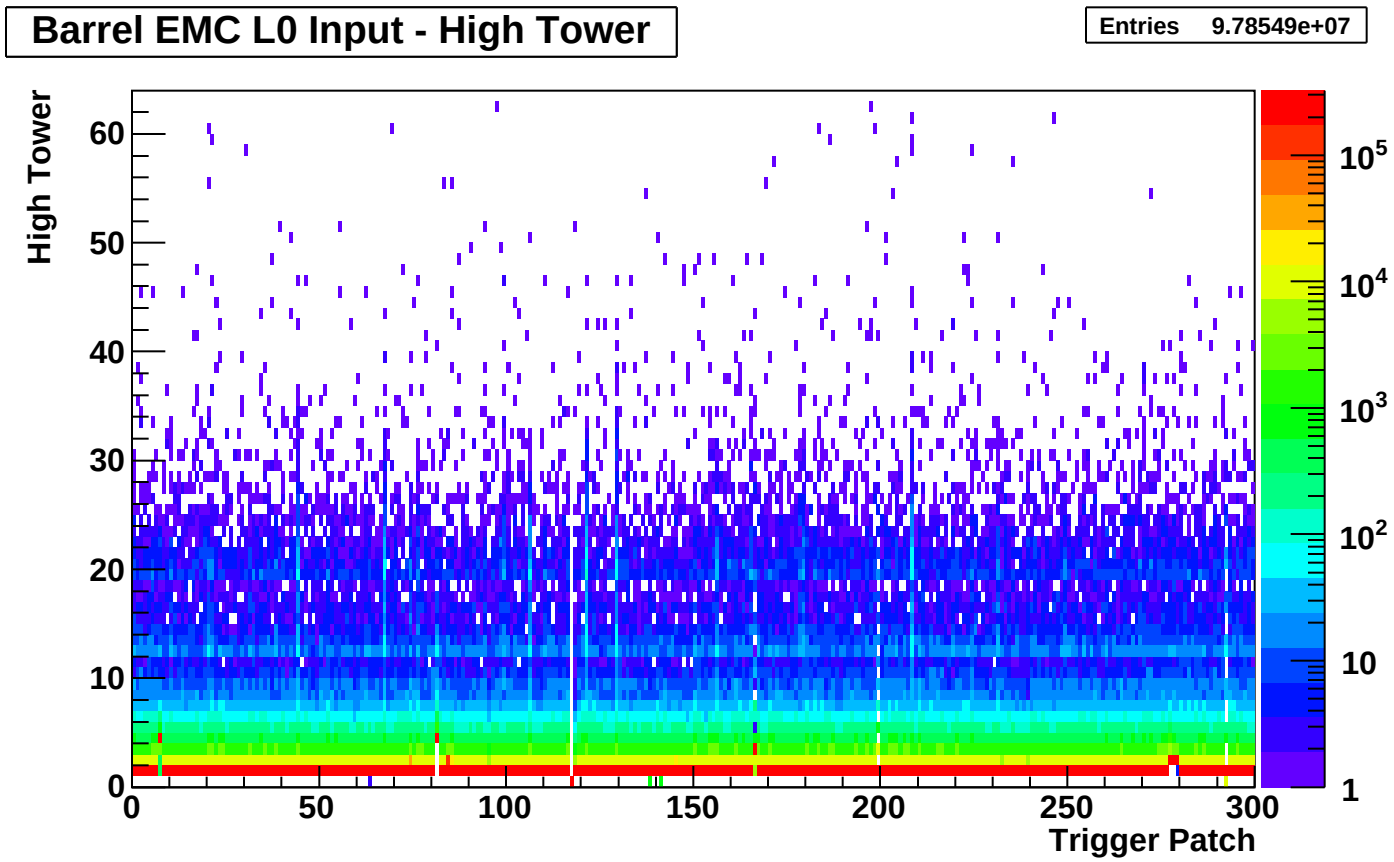

DAQ10k HT bits errors
Entries 0

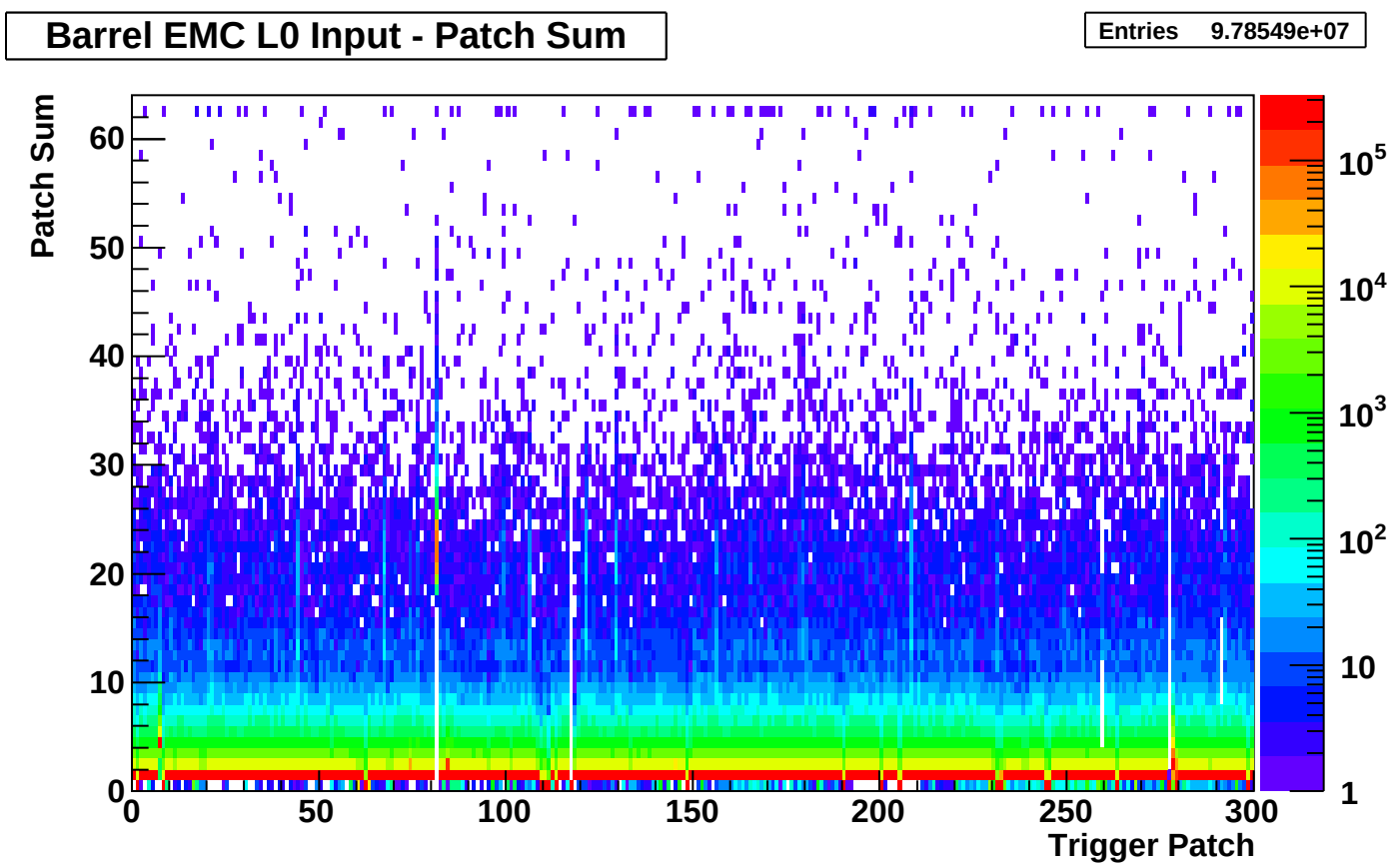

TPC Readout Mask (simulated)
Entries 41920

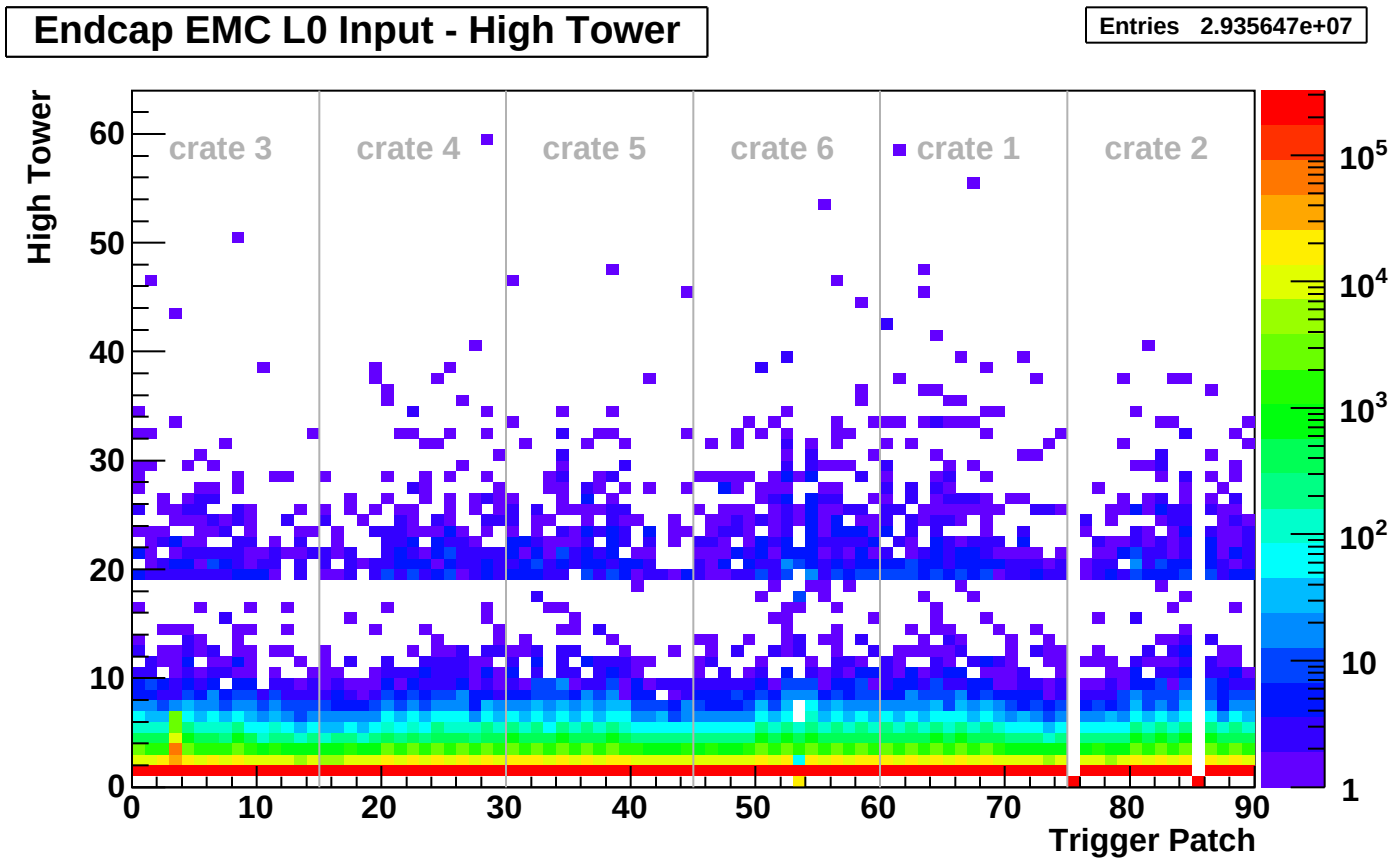

BunchId7Bit (all events)
Entries 326183

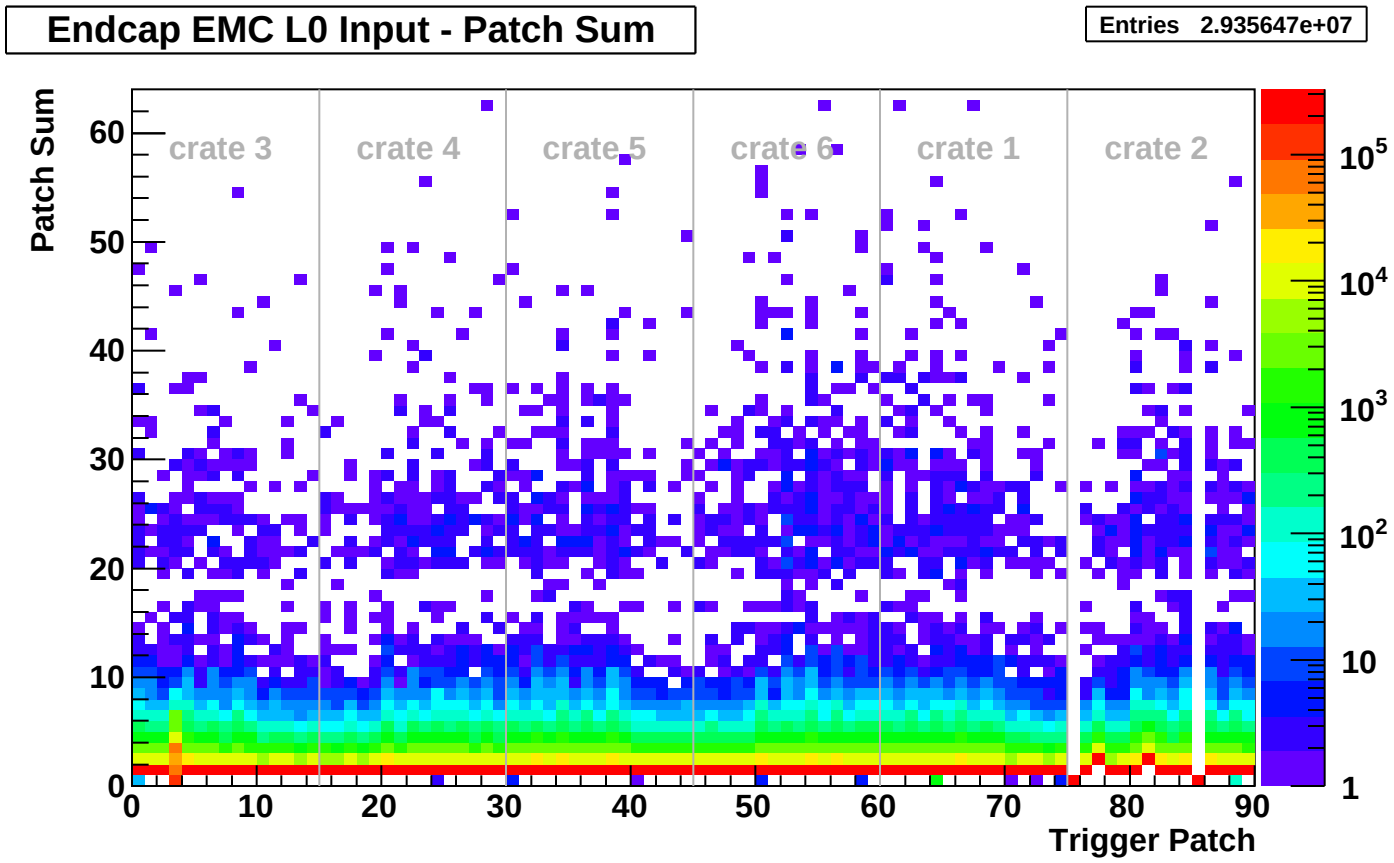

Abort-gaps
Entries 339

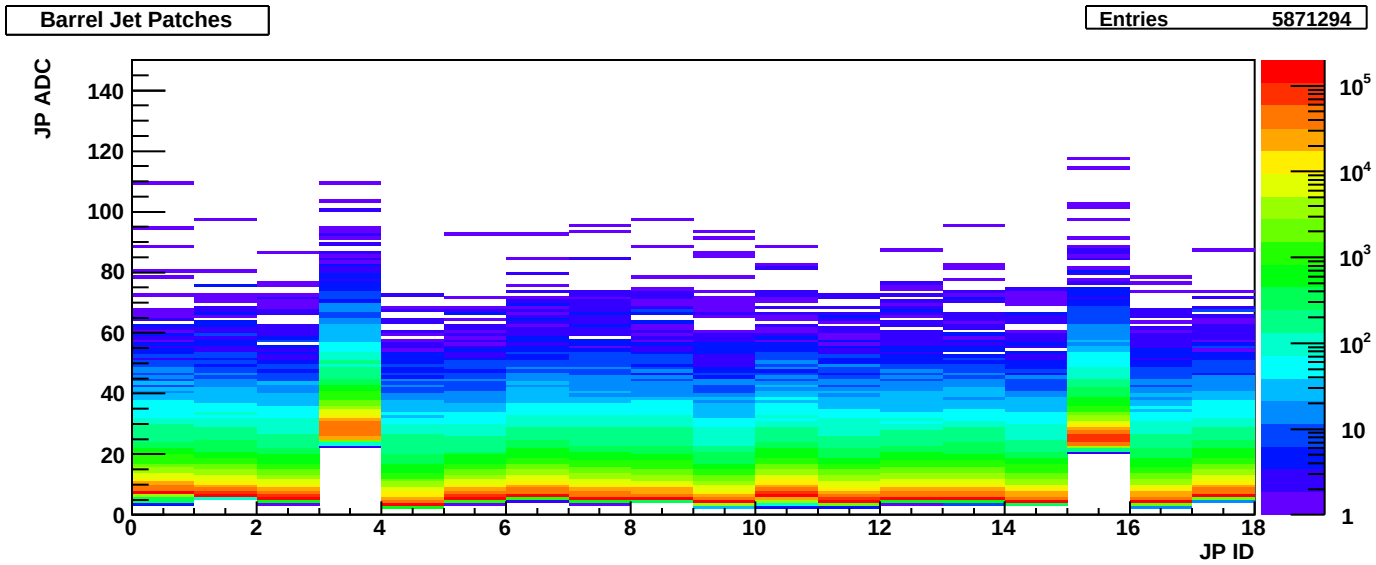

!Yellow-Fill
Entries 15254

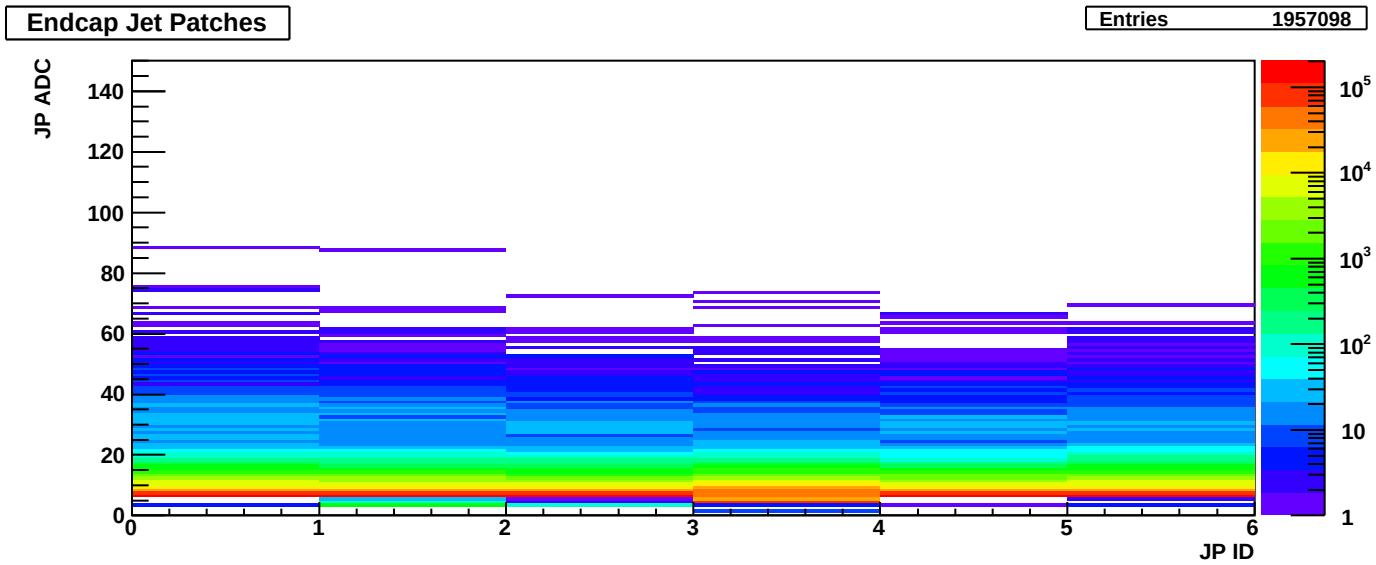

Barrel EMC L0 Input - High Tower
Entries 9.78549e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

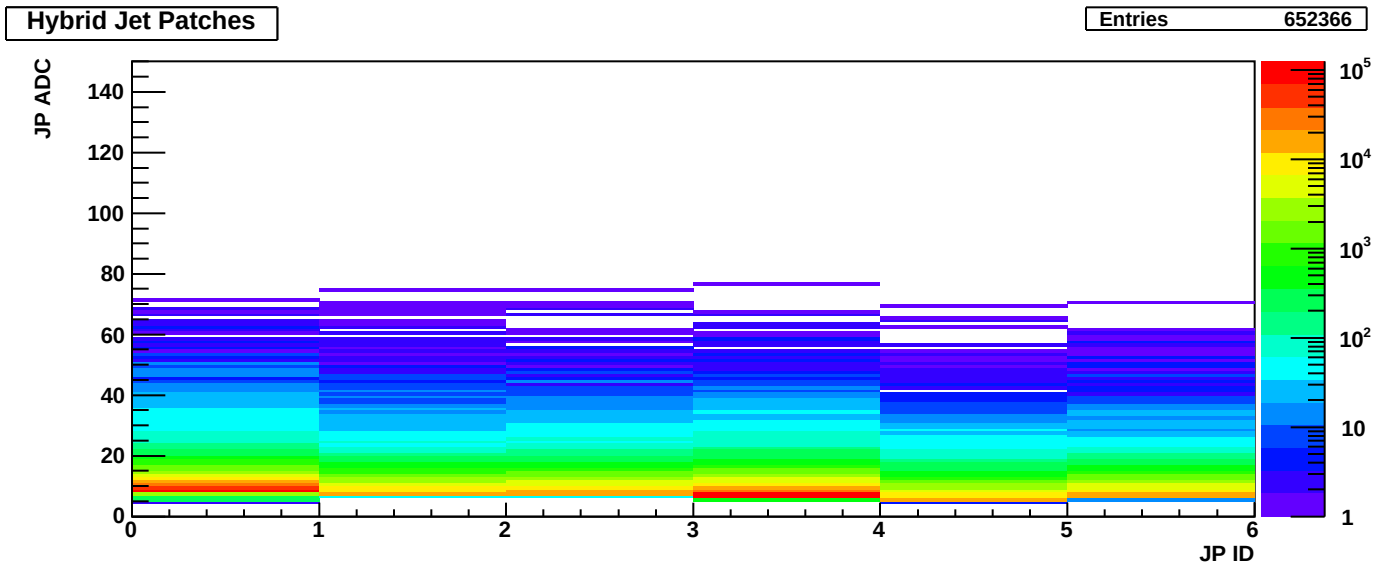

Barrel EMC L0 Input - Patch Sum
Entries 9.78549e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

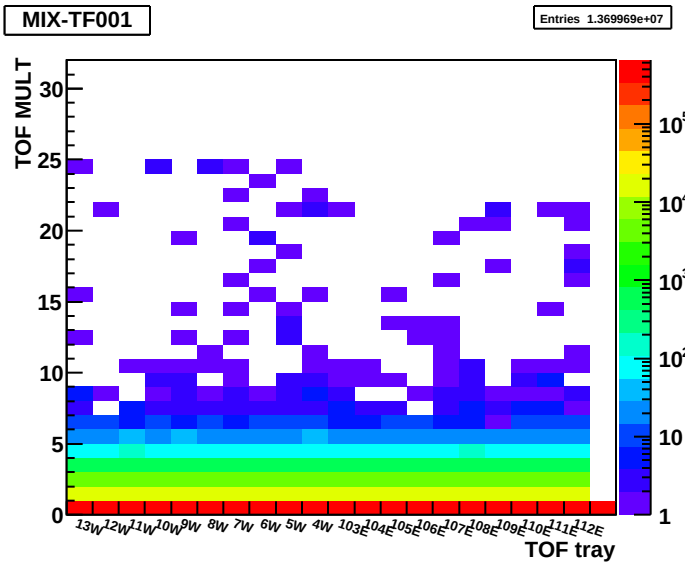

Endcap EMC L0 Input - High Tower
Entries 2.935647e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

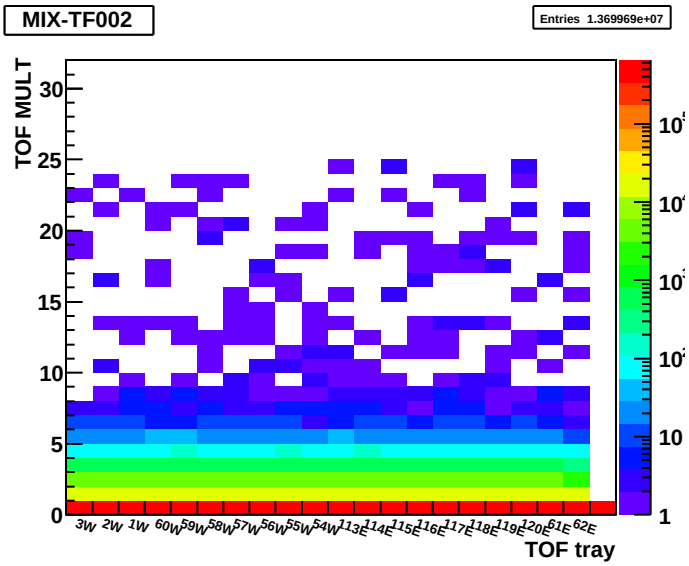

Endcap EMC L0 Input - Patch Sum
Entries 2.935647e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

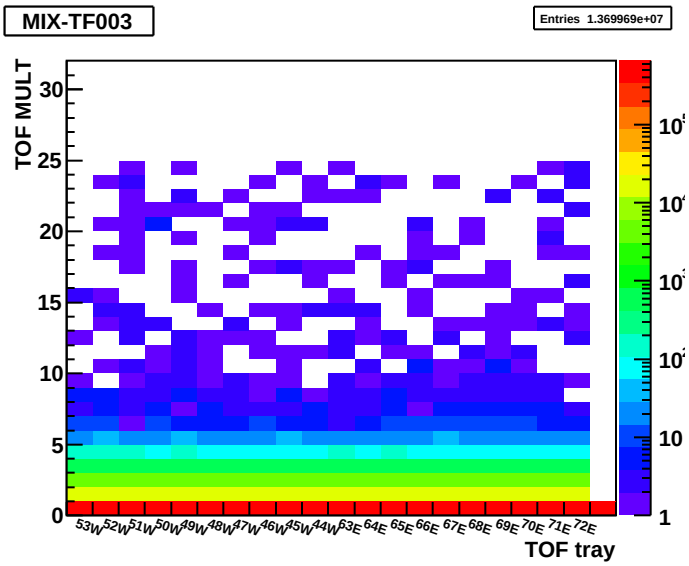

Barrel Jet Patches
Entries 5871294
JP ADC
JP ID

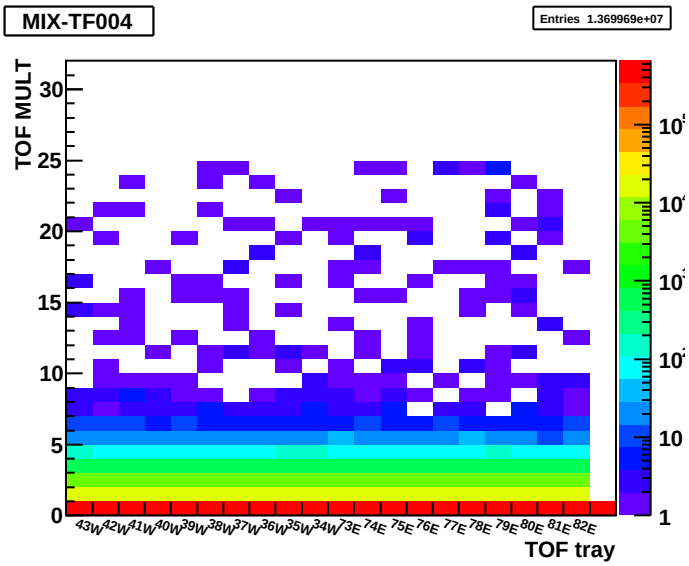

Endcap Jet Patches
Entries 1957098
JP ADC
JP ID

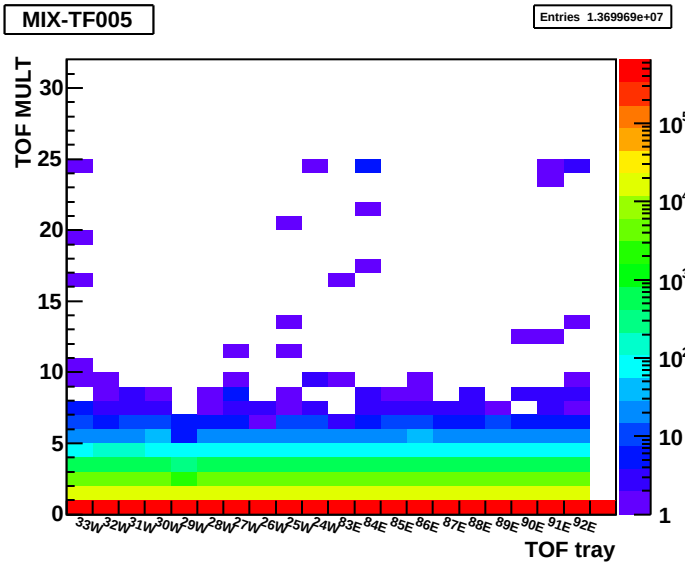

Hybrid Jet Patches
Entries 652366
JP ADC
JP ID

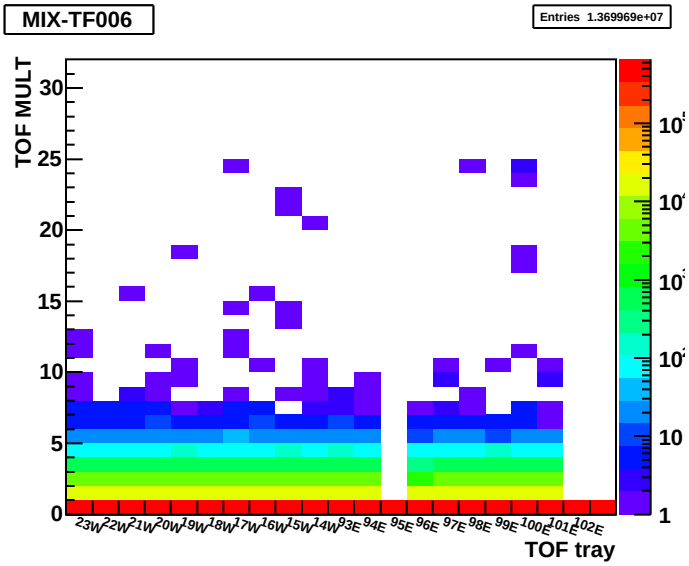

MIX-TF001
Entries 1.369969e+07
TOF MULT
TOF tray

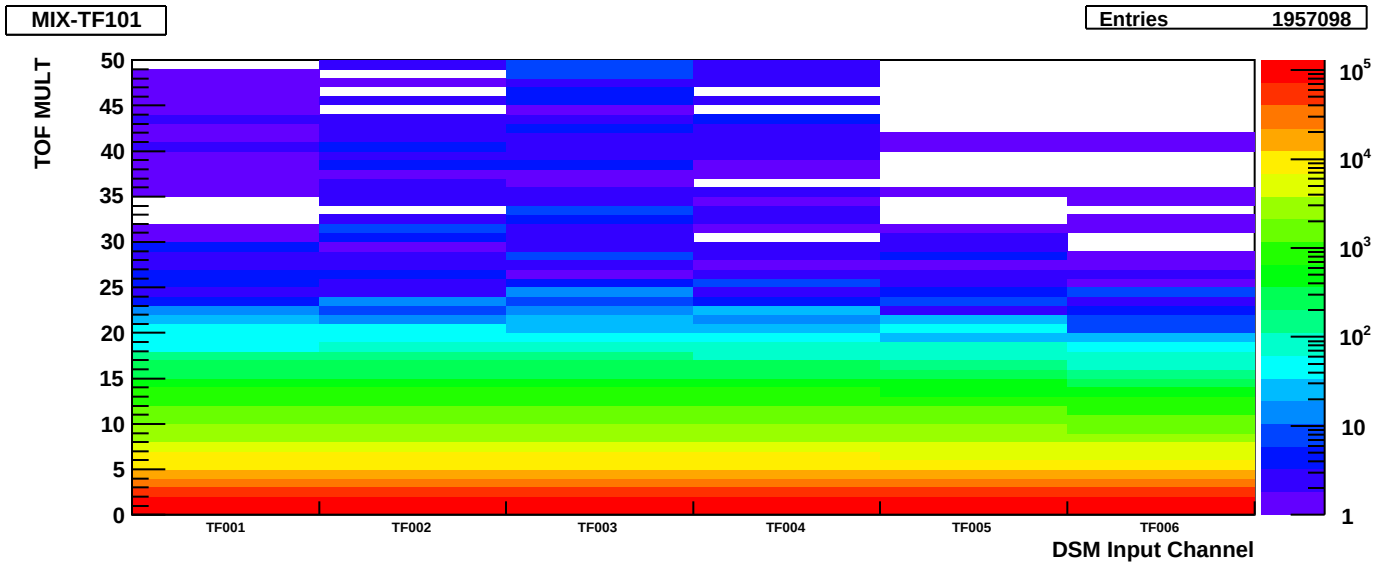

MIX-TF002
Entries 1.369969e+07
TOF MULT
TOF tray

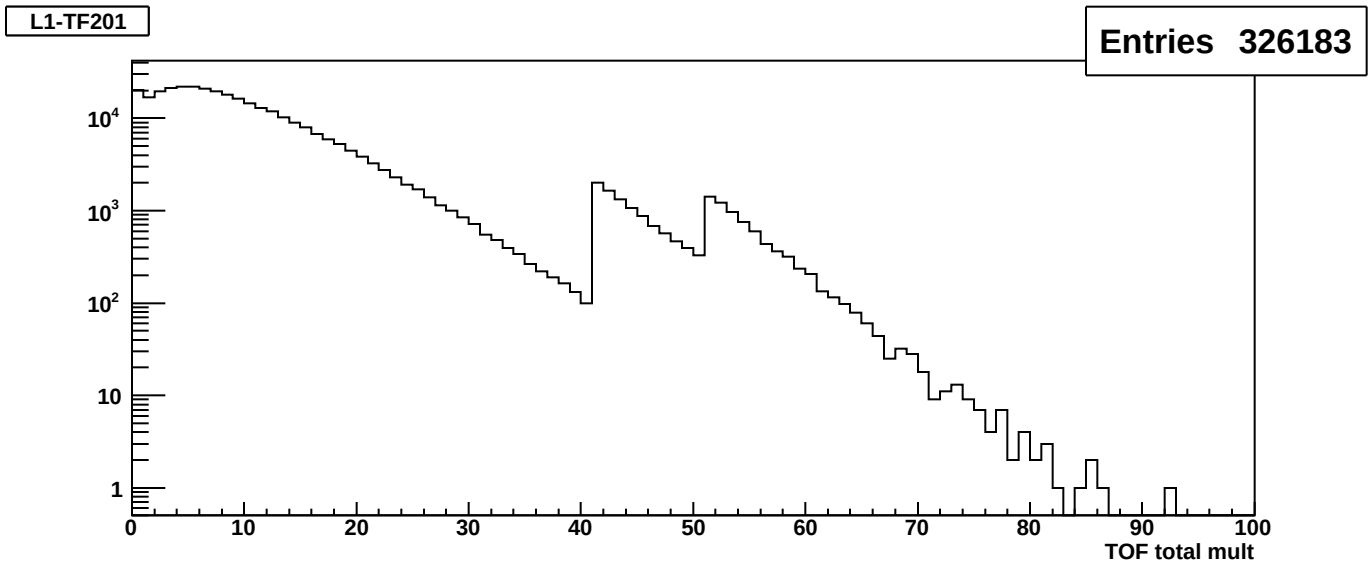

MIX-TF003
Entries 1.369969e+07
TOF MULT
TOF tray

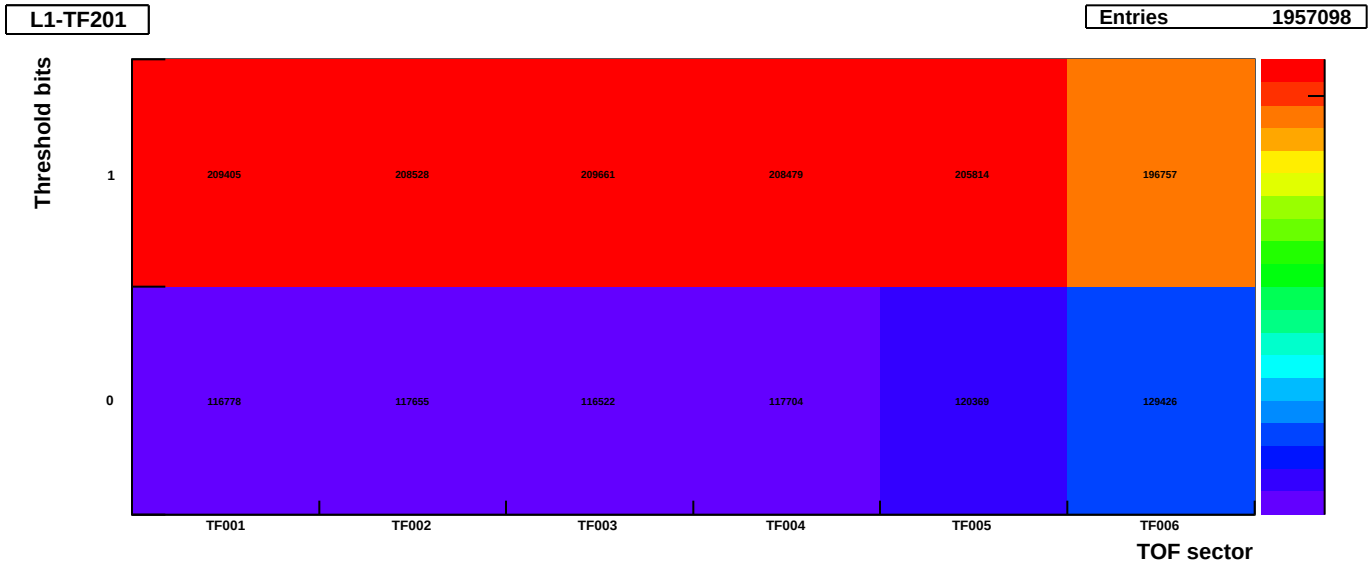

MIX-TF004
Entries 1.369969e+07
TOF MULT
TOF tray

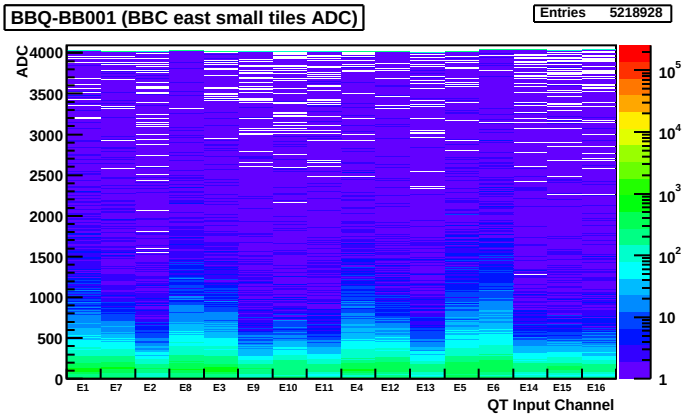

MIX-TF005
Entries 1.369969e+07
TOF MULT
TOF tray

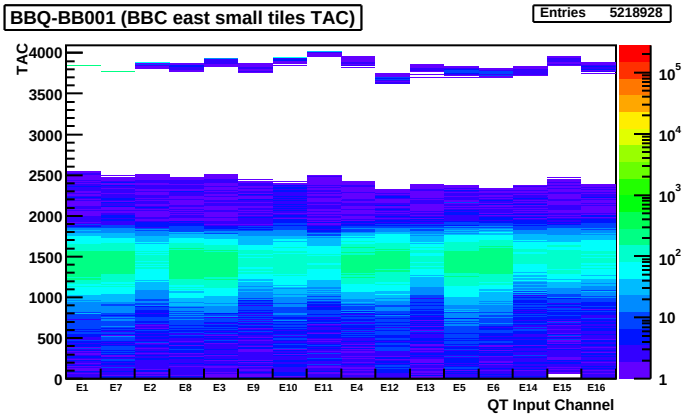

MIX-TF006
Entries 1.369969e+07
TOF MULT
TOF tray

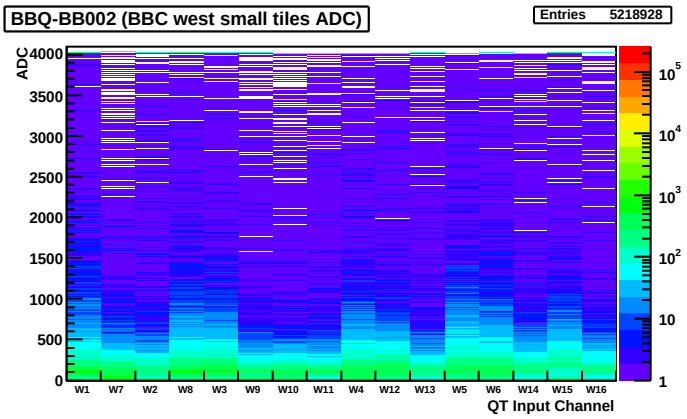

MIX-TF101
Entries 1957098
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

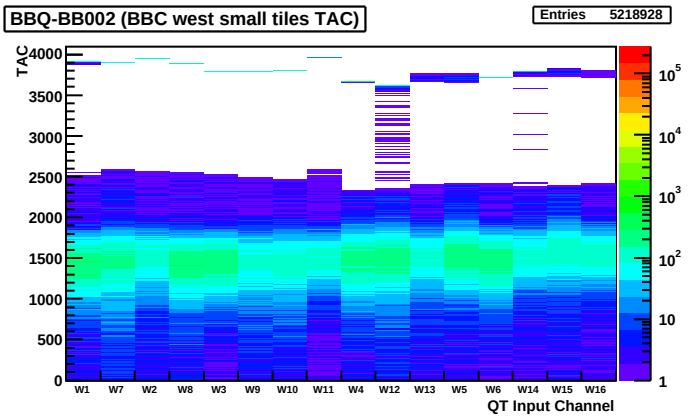

L1-TF201
Entries 326183
TOF total mult

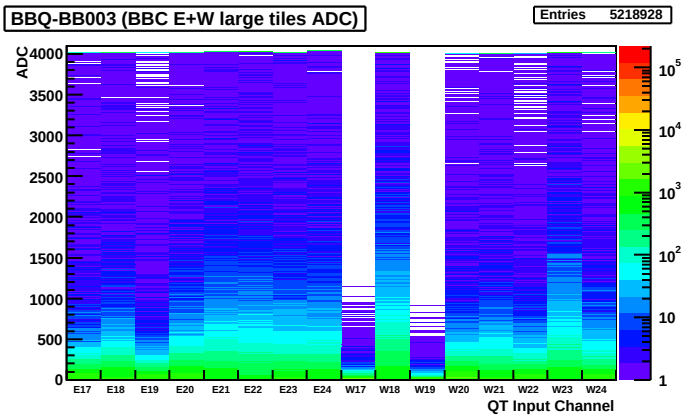

L1-TF201
Entries 1957098
Threshold bits
209405
208528
209661
208479
205814
196757
116778
117655
116522
117704
120369
129426
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

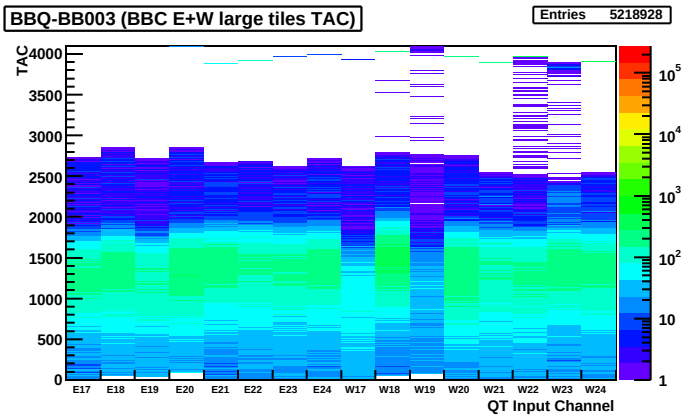

BBQ-BB001 (BBC east small tiles ADC)
Entries 5218928
ADC
QT Input Channel

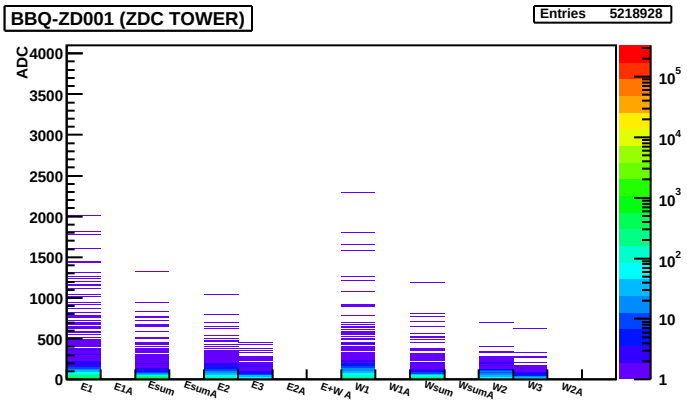

BBQ-BB001 (BBC east small tiles TAC)
Entries 5218928
TAC
QT Input Channel

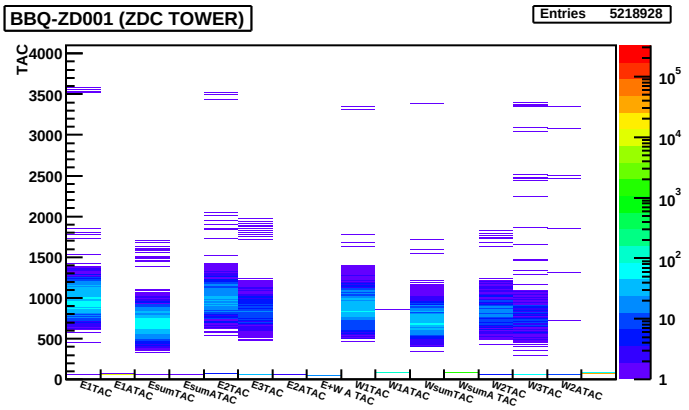

BBQ-BB002 (BBC west small tiles ADC)
Entries 5218928
ADC
QT Input Channel

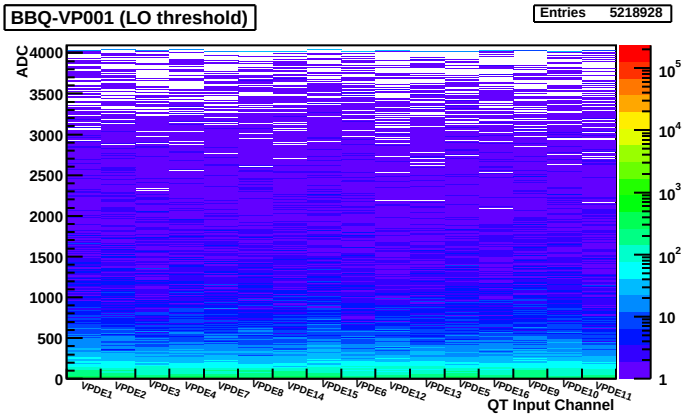

BBQ-BB002 (BBC west small tiles TAC)
Entries 5218928
TAC
QT Input Channel

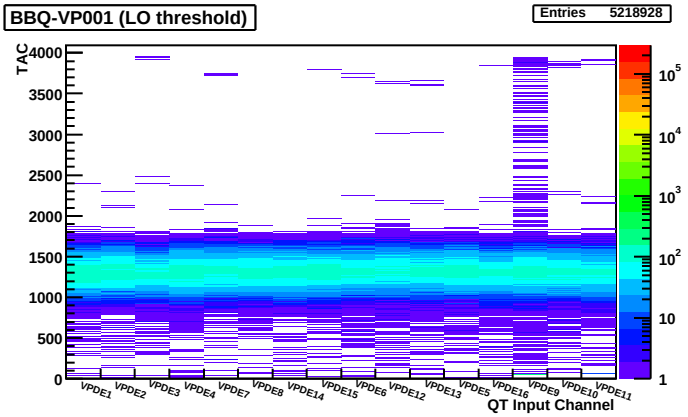

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5218928
ADC
QT Input Channel

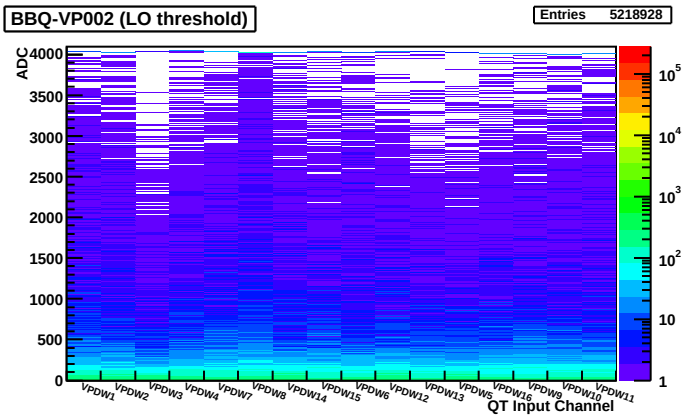

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5218928
TAC
QT Input Channel

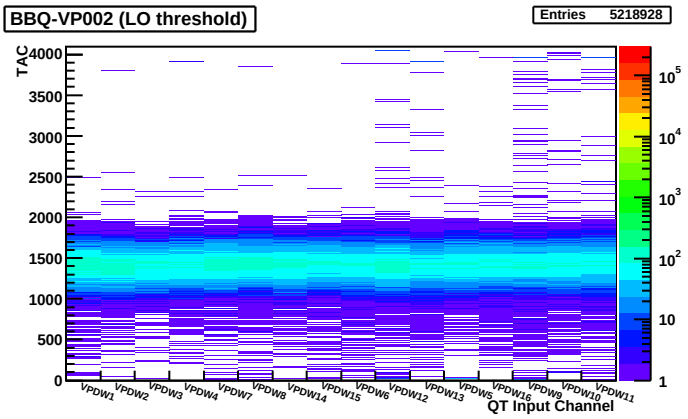

BBQ-ZD001 (ZDC TOWER)
Entries 5218928
ADC

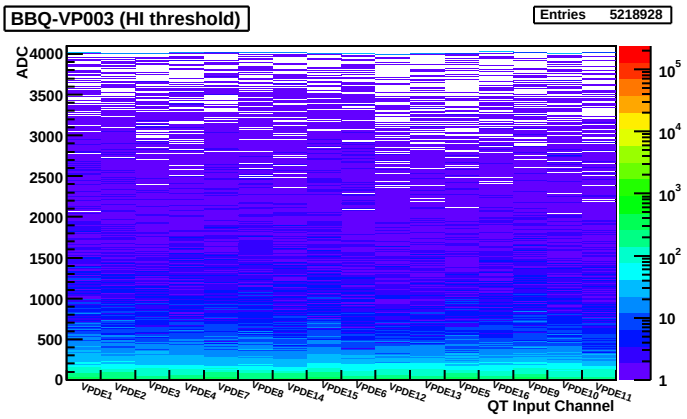

BBQ-ZD001 (ZDC TOWER)
Entries 5218928
TAC

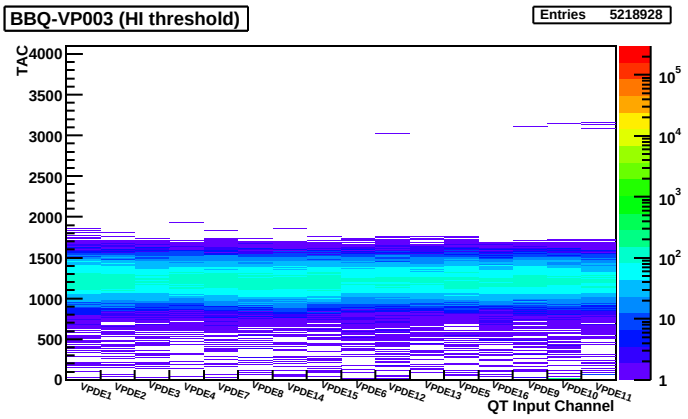

BBQ-VP001 (LO threshold)
Entries 5218928
ADC
QT Input Channel

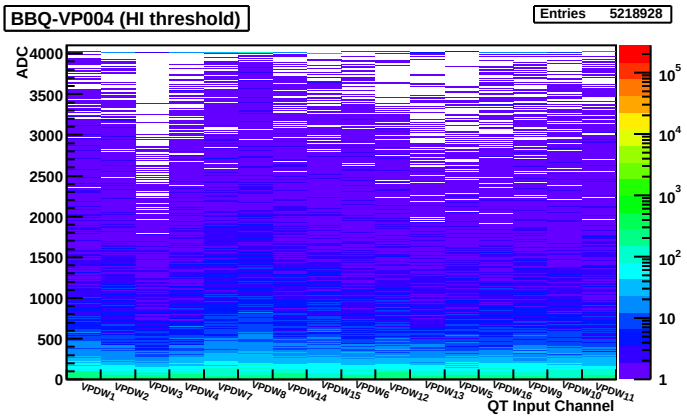

BBQ-VP001 (LO threshold)
Entries 5218928
TAC
QT Input Channel

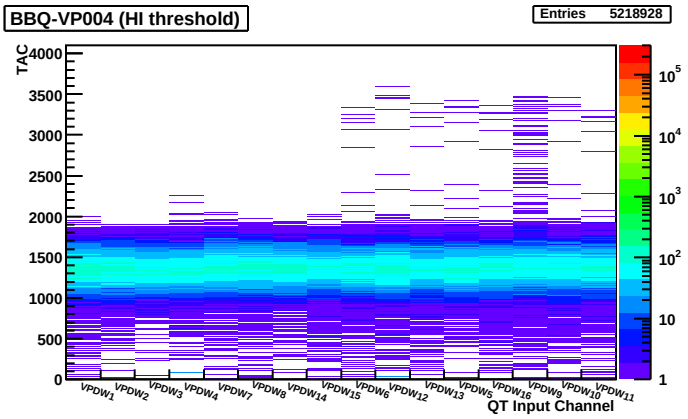

BBQ-VP002 (LO threshold)
Entries 5218928
ADC
QT Input Channel

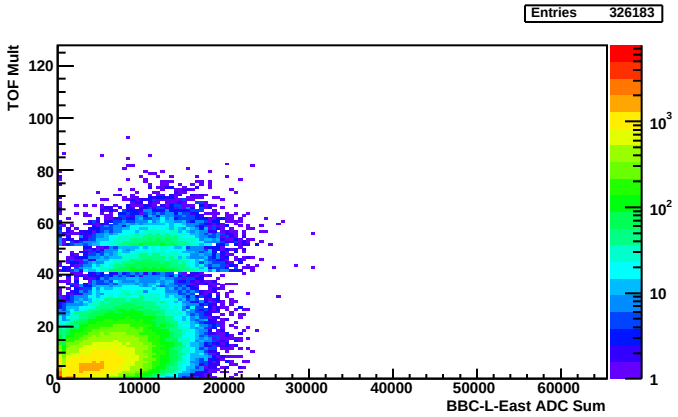

BBQ-VP002 (LO threshold)
Entries 5218928
TAC
QT Input Channel

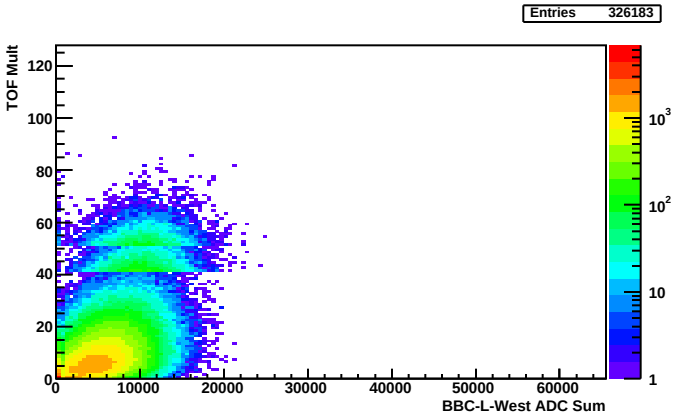

BBQ-VP003 (HI threshold)
Entries 5218928
ADC
QT Input Channel

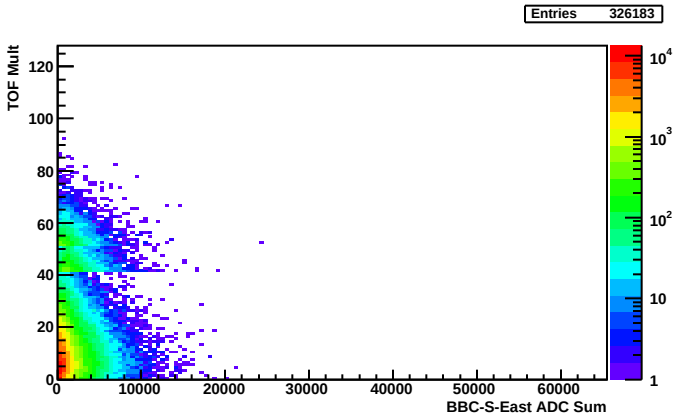

BBQ-VP003 (HI threshold)
Entries 5218928
TAC
QT Input Channel

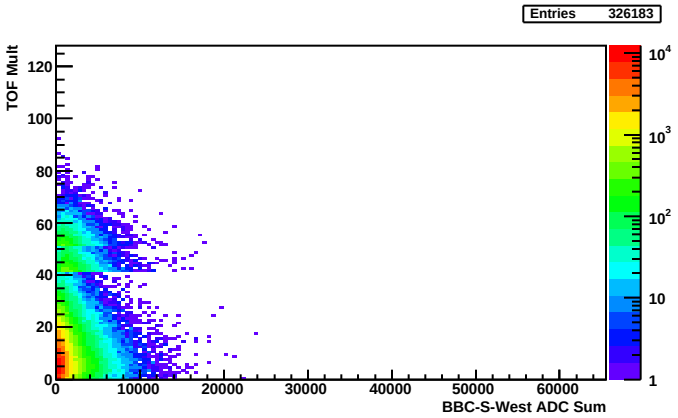

BBQ-VP004 (HI threshold)
Entries 5218928
ADC
QT Input Channel

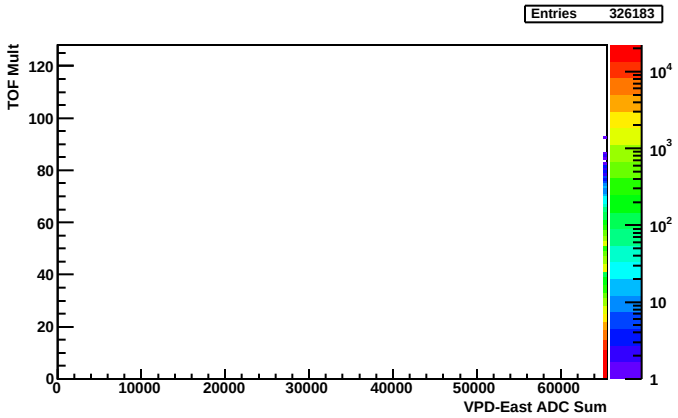

BBQ-VP004 (HI threshold)
Entries 5218928
TAC
QT Input Channel

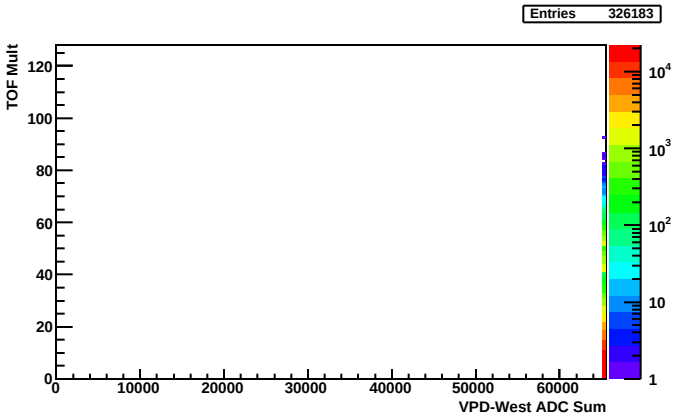

Entries 326183
TOF Mult
BBC-L-East ADC Sum

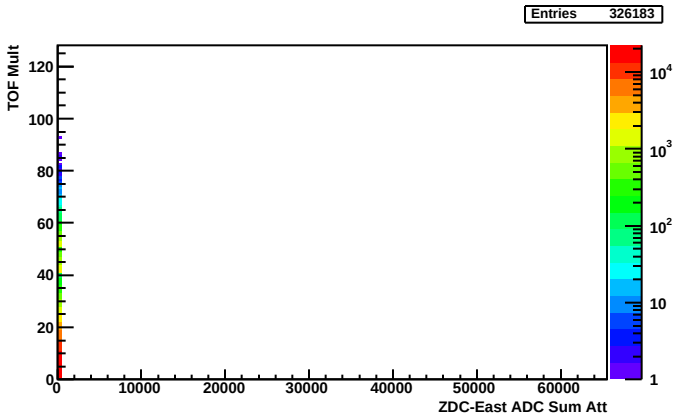

Entries 326183
TOF Mult
BBC-L-West ADC Sum

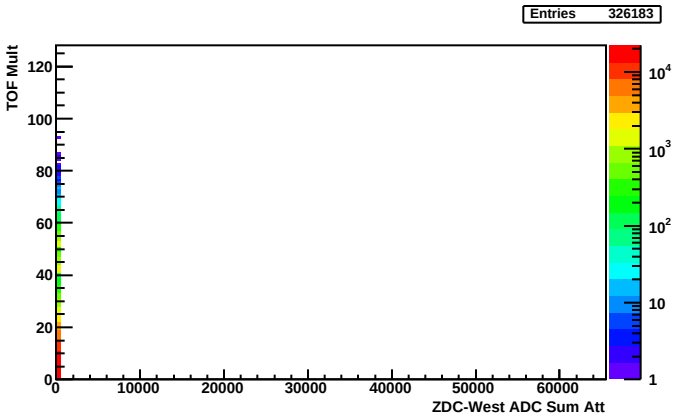

Entries 326183
TOF Mult
BBC-S-East ADC Sum

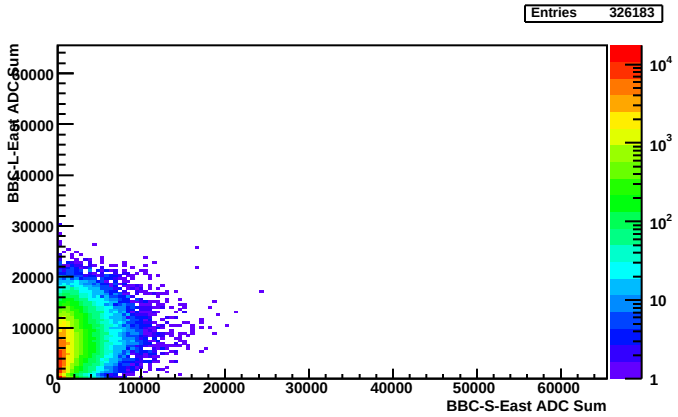

Entries 326183
TOF Mult
BBC-S-West ADC Sum

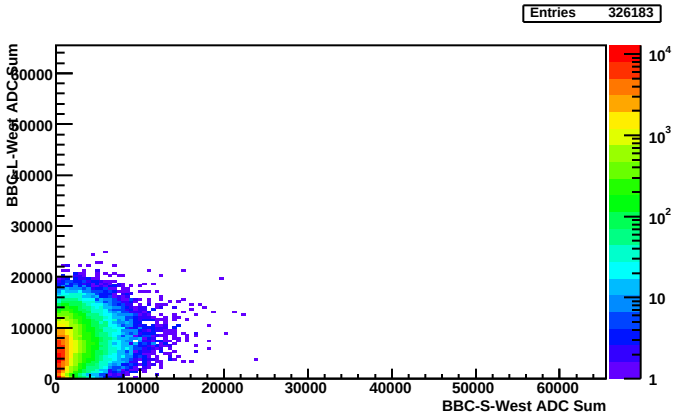

Entries 326183
TOF Mult
VPD-East ADC Sum

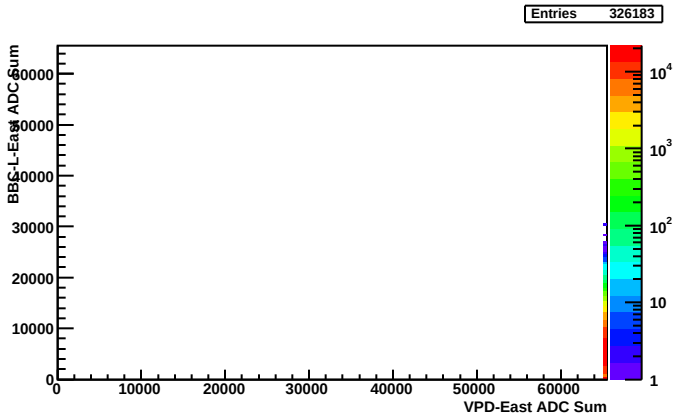

Entries 326183
TOF Mult
VPD-West ADC Sum

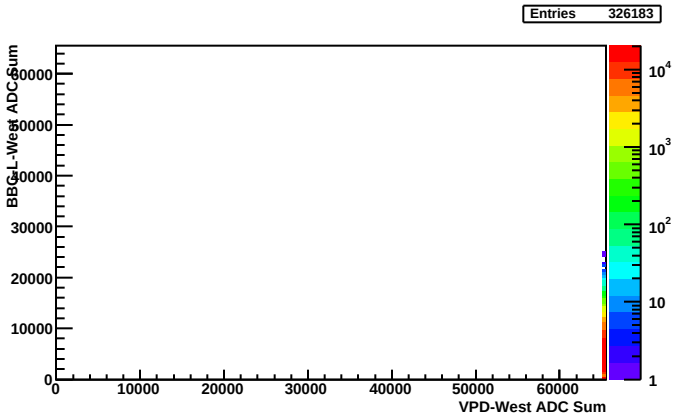

Entries 326183
TOF Mult
ZDC-East ADC Sum Att

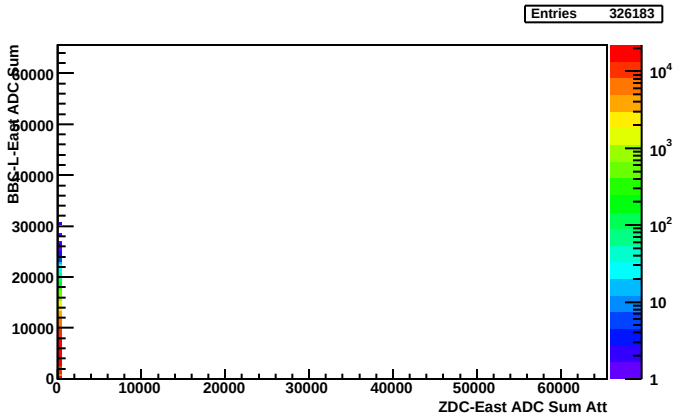

Entries 326183
TOF Mult
ZDC-West ADC Sum Att


Entries 326183
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 326183
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 326183
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 326183
BBC-L-West ADC Sum
VPD-West ADC Sum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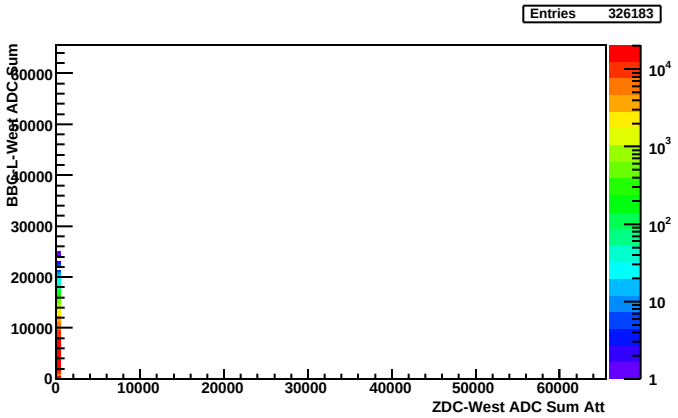
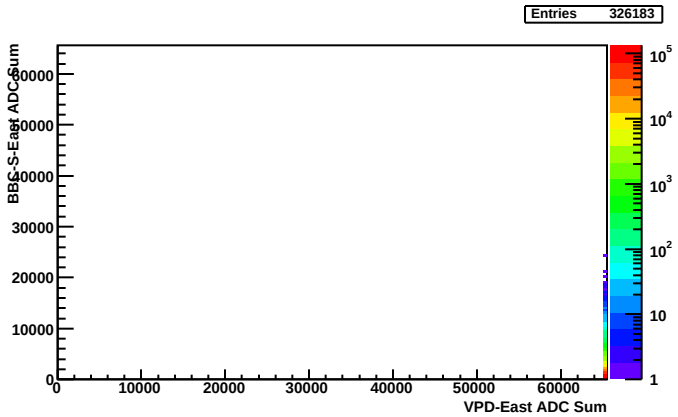
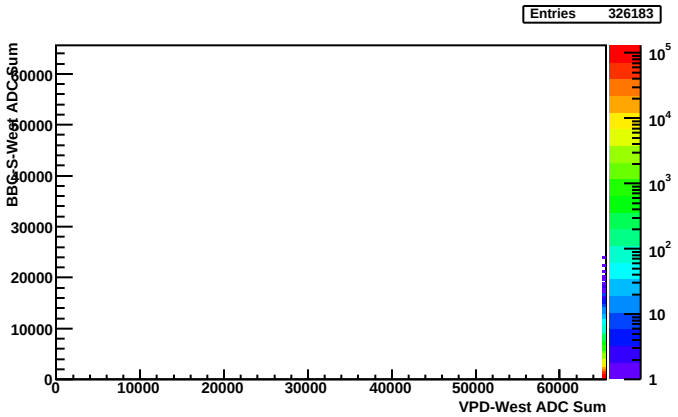
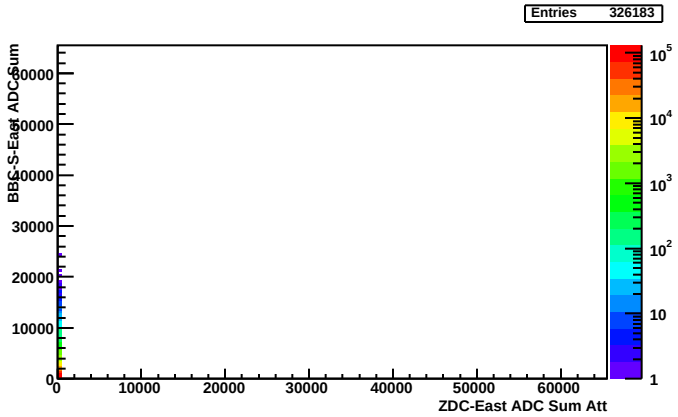
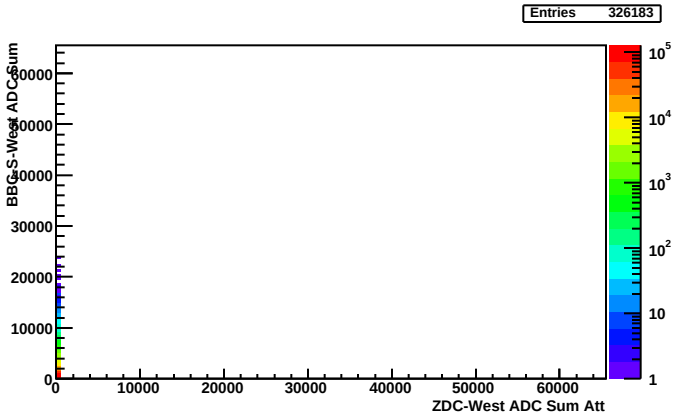
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

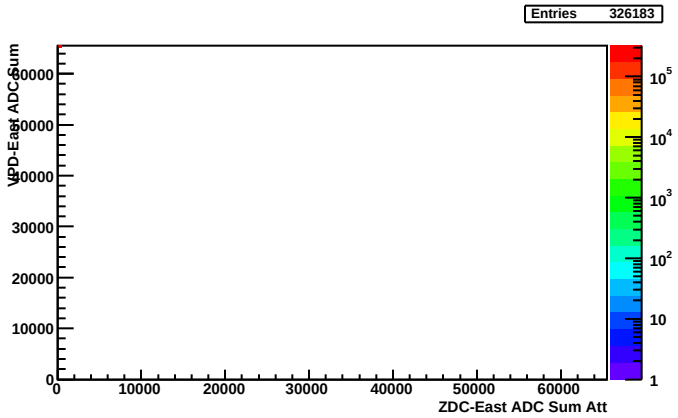

Entries 326183
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

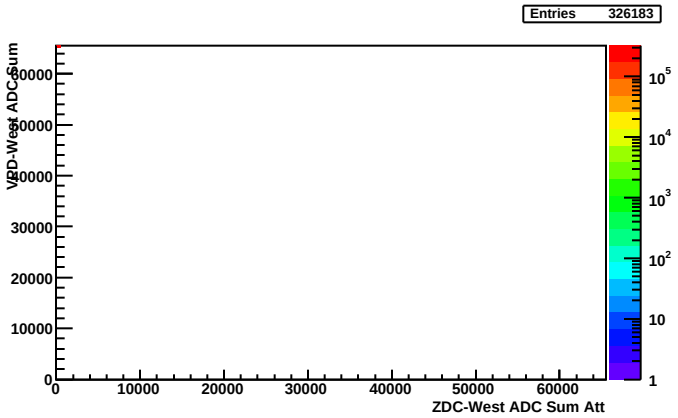

Entries 326183
BBC-S-East ADC Sum
VPD-East ADC Sum

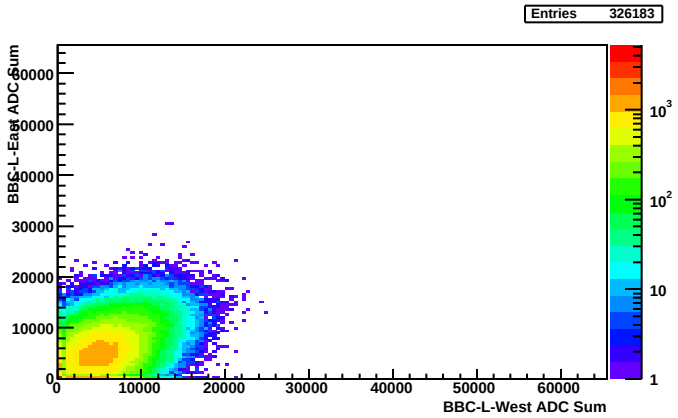

Entries 326183
BBC-S-West ADC Sum
VPD-West ADC Sum

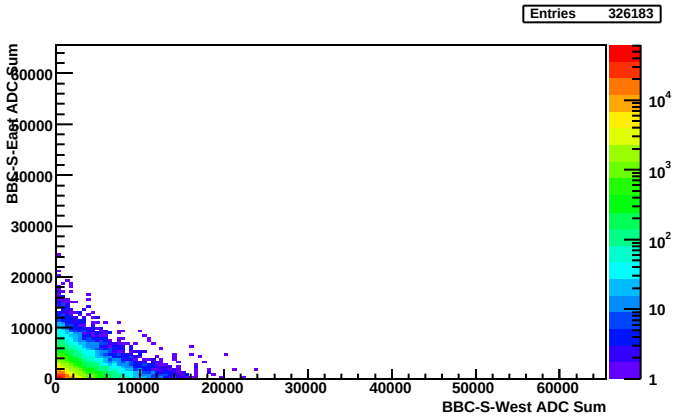

Entries 326183
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

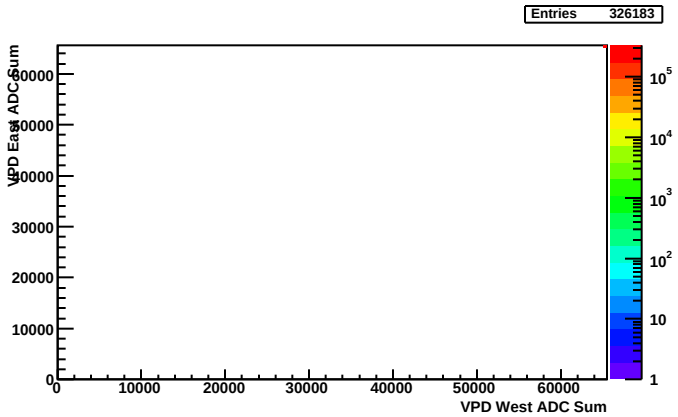

Entries 326183
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

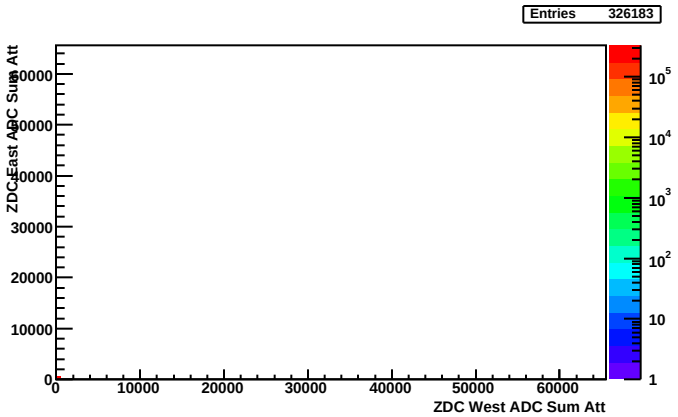

Entries 326183
VPD-East ADC Sum
ZDC-East ADC Sum Att

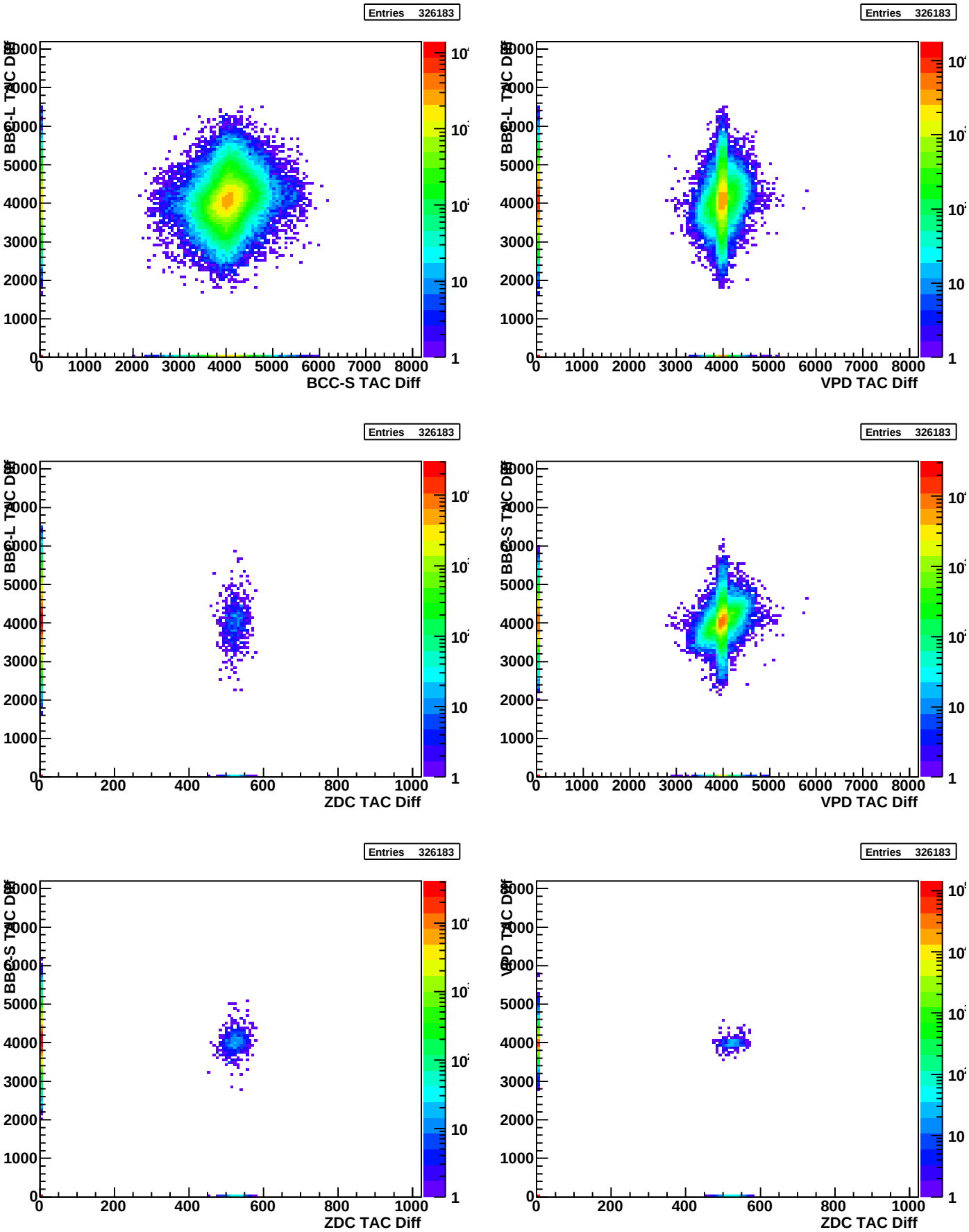

Entries 326183
VPD-West ADC Sum
ZDC-West ADC Sum Att

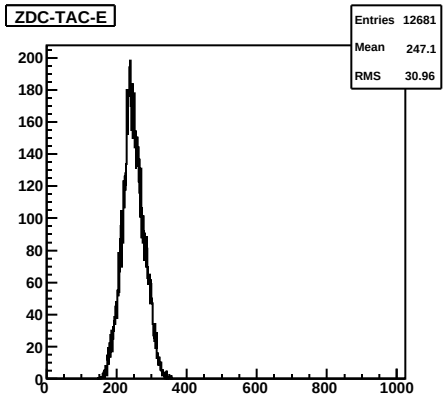

Entries 326183
BBC-L-East ADC Sum
BBC-L-West ADC Sum

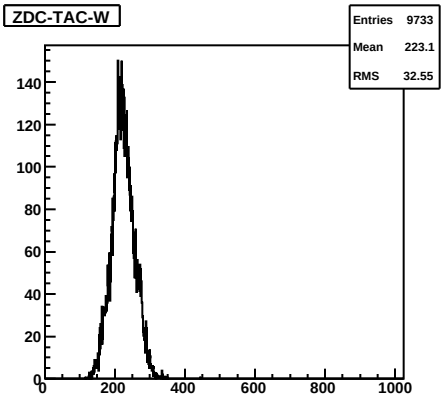

Entries 326183
BBC-S-East ADC Sum
BBC-S-West ADC Sum

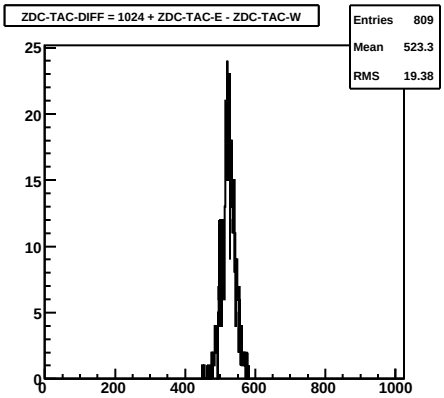

Entries 326183
VPD East ADC Sum
VPD West ADC Sum

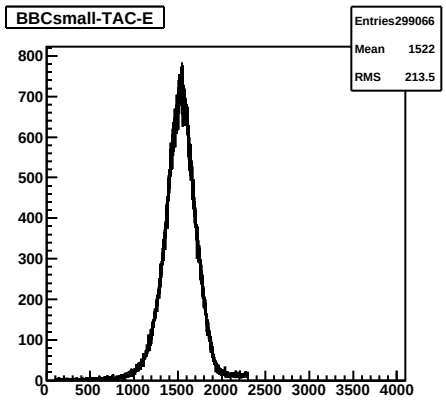

Entries 326183
ZDC East ADC Sum Att
ZDC West ADC Sum Att

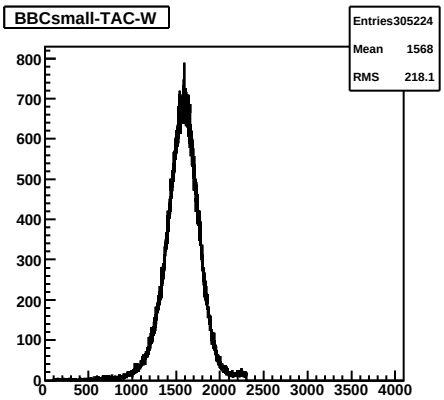

Entries 326183
BBC-L TAC Diff
BCC-S TAC Diff
VPD TAC Diff
ZDC TAC Diff
BBC-S TAC Diff

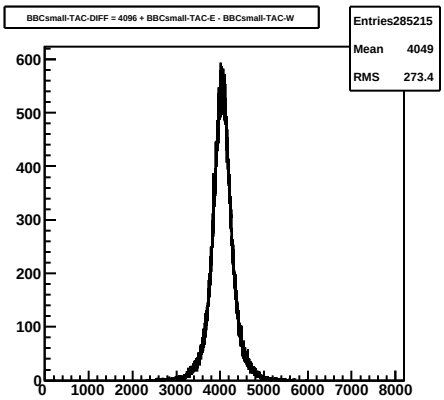

ZDC-TAC-E
Entries 12681
Mean 247.1
RMS 30.96

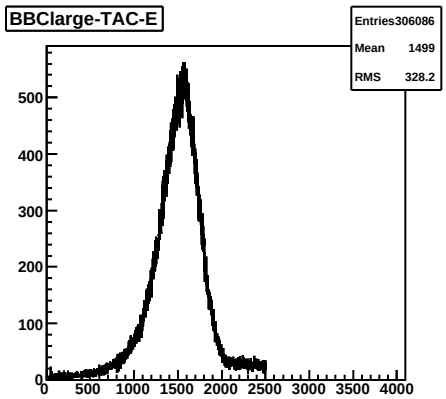

ZDC-TAC-W
Entries 9733
Mean 223.1
RMS 32.55

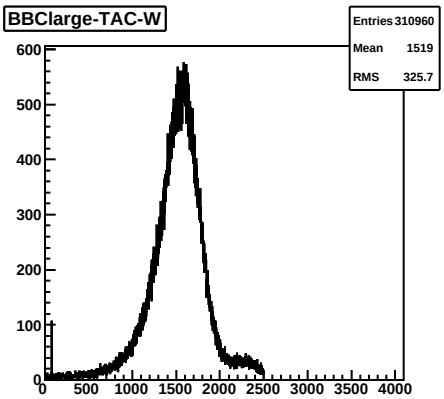

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 809
Mean 523.3
RMS 19.38

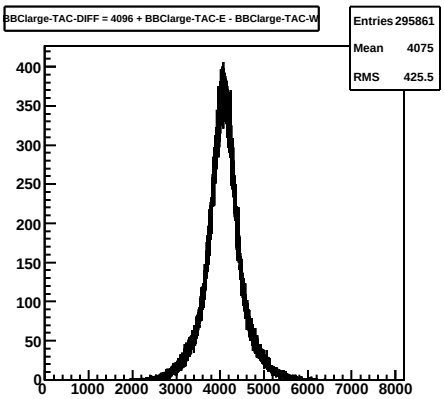

BBCsmall-TAC-E
Entries 299066
Mean 1522
RMS 213.5

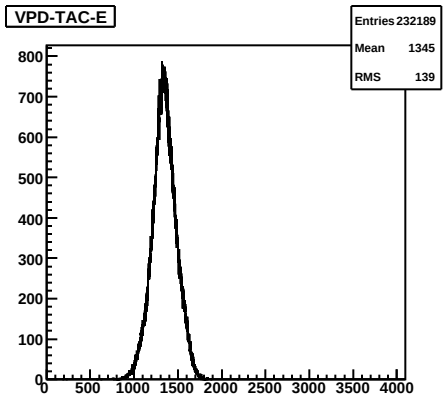

BBCsmall-TAC-W
Entries 305224
Mean 1568
RMS 218.1

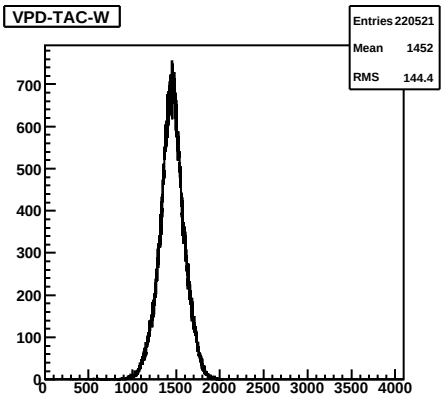

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 285215
Mean 4049
RMS 273.4

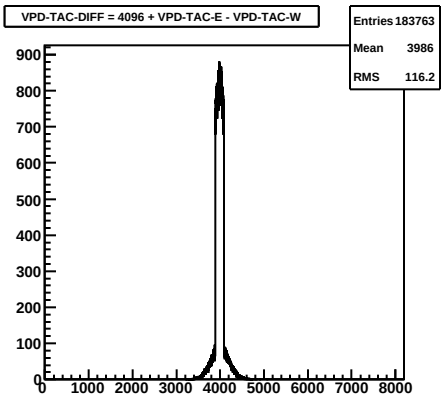

BBClarge-TAC-E
Entries 306086
Mean 1499
RMS 328.2

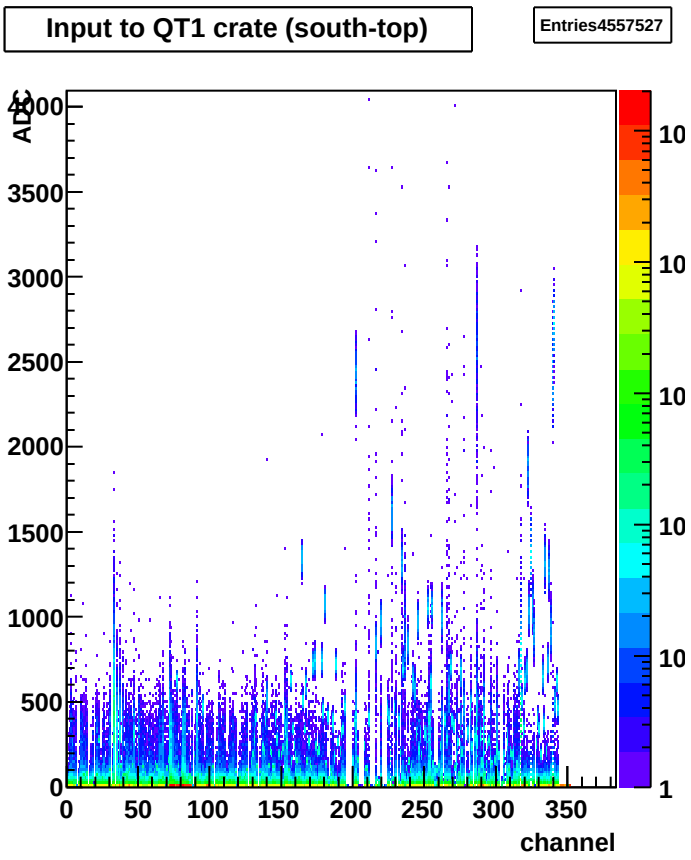

BBClarge-TAC-W
Entries 310960
Mean 1519
RMS 325.7

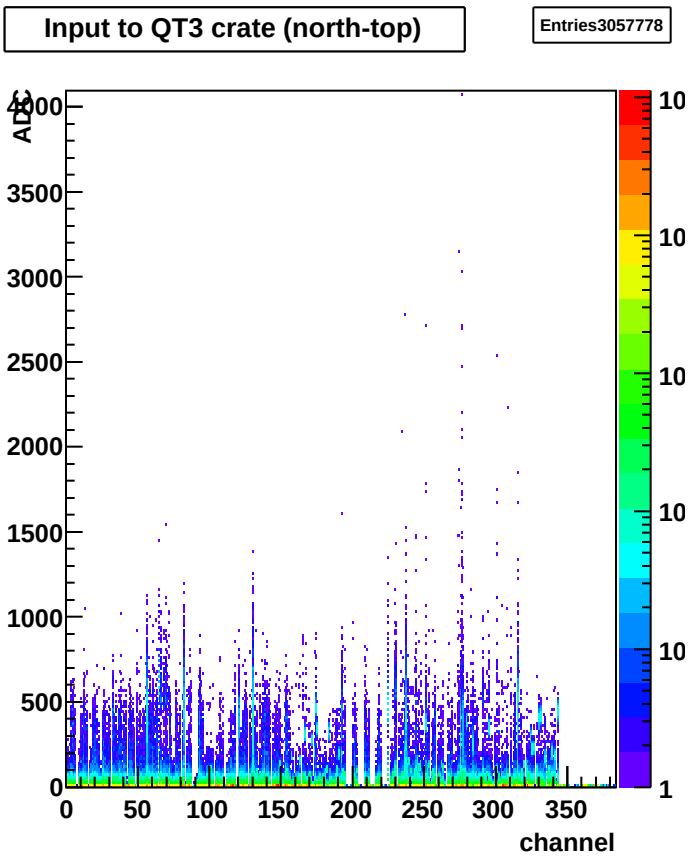

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 295861
Mean 4075
RMS 425.5

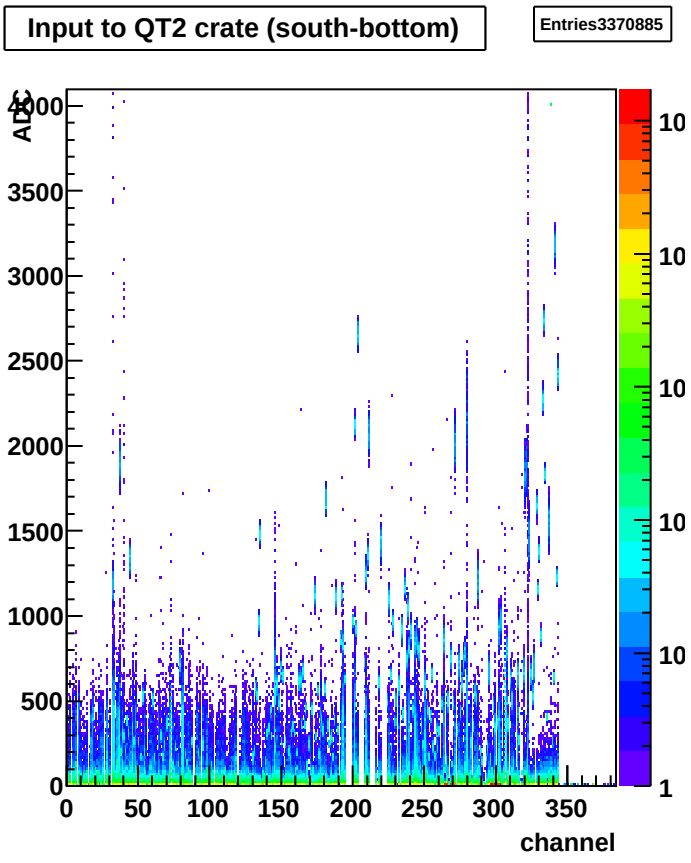

VPD-TAC-E
Entries 232189
Mean 1345
RMS 139

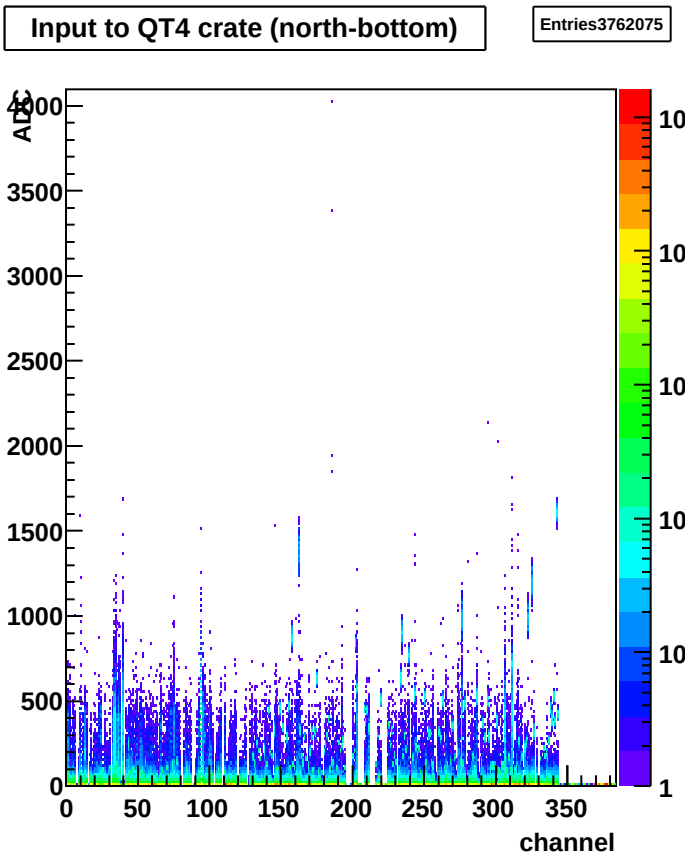

VPD-TAC-W
Entries 220521
Mean 1452
RMS 144.4

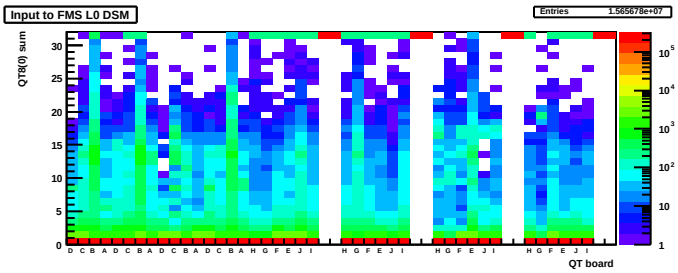

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 183763
Mean 3986
RMS 116.2

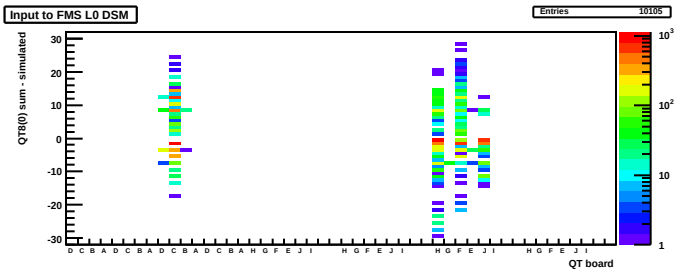

Input to QT1 crate (south-top)
Entries4557527
ADC
channel

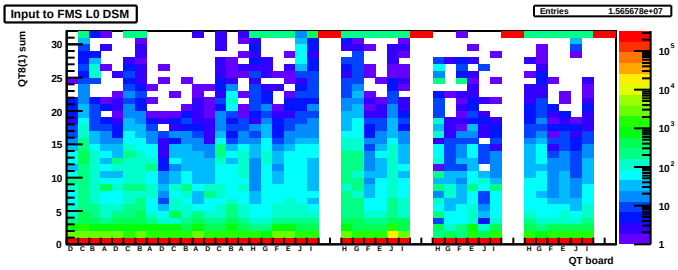

Input to QT3 crate (north-top)
Entries3057778
ADC
channel

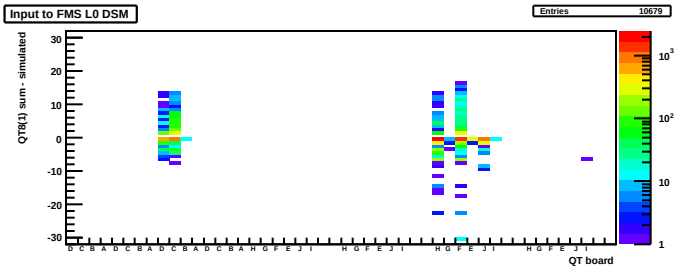

Input to QT2 crate (south-bottom)
Entries3370885
ADC
channel

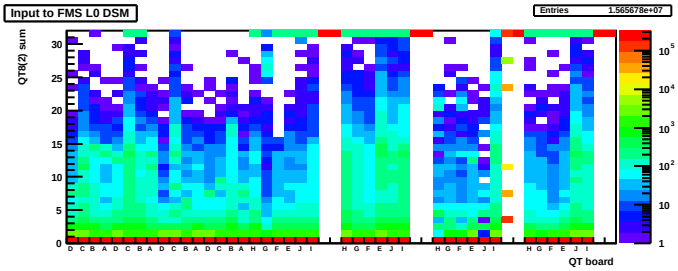

Input to QT4 crate (north-bottom)
Entries3762075
ADC
channel

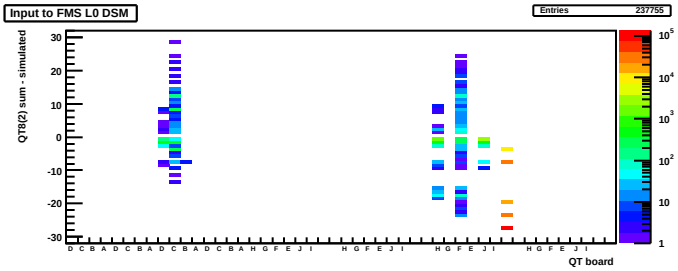

Input to FMS L0 DSM
Entries 1.565678e+07
QT8(0) sum
QT board

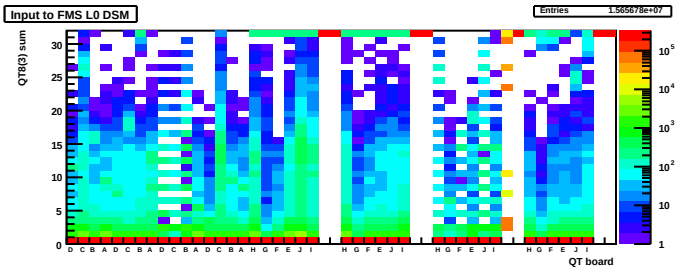

Input to FMS L0 DSM
Entries 10105
QT8(0) sum - simulated
QT board

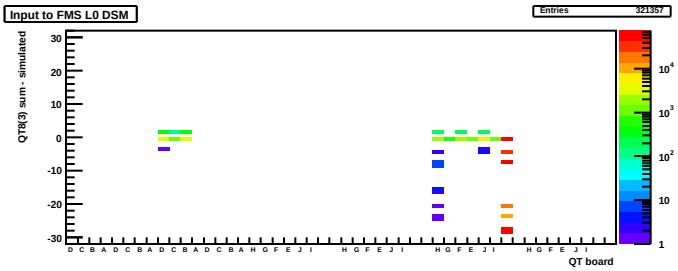

Input to FMS L0 DSM
Entries 1.565678e+07
QT8(1) sum
QT board

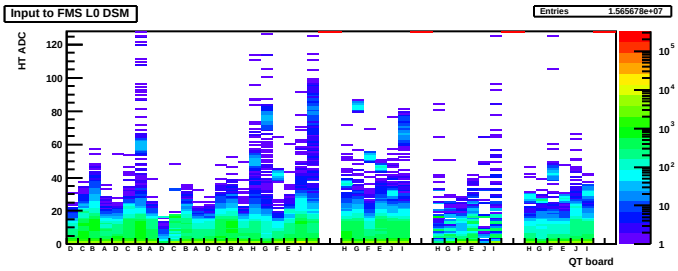

Input to FMS L0 DSM
Entries 10679
QT8(1) sum - simulated
QT board

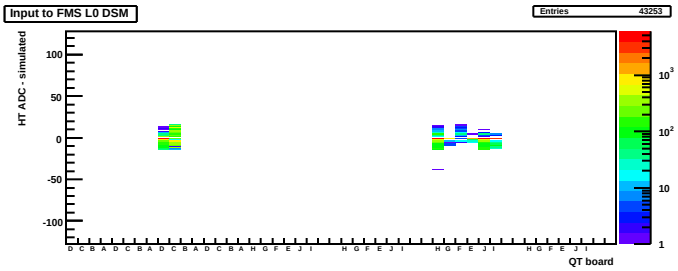

Input to FMS L0 DSM
Entries 1.565678e+07
QT8(2) sum
QT board

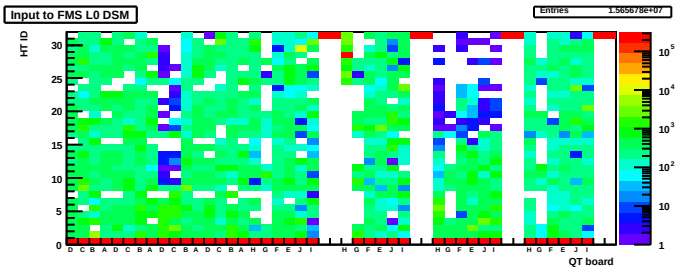

Input to FMS L0 DSM
Entries 237755
QT8(2) sum - simulated
QT board

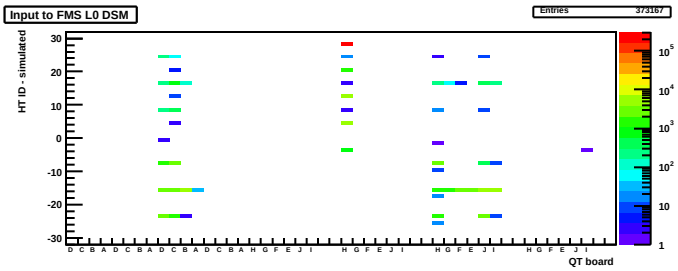

Input to FMS L0 DSM
Entries 1.565678e+07
QT8(3) sum
QT board

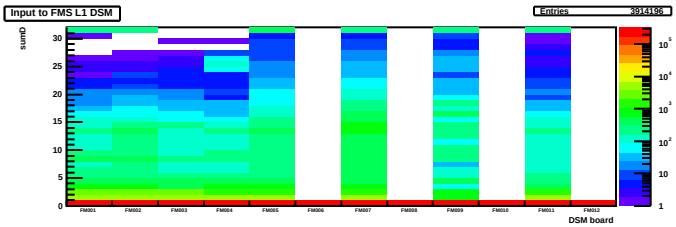

Input to FMS L0 DSM
Entries 321357
QT8(3) sum - simulated
QT board

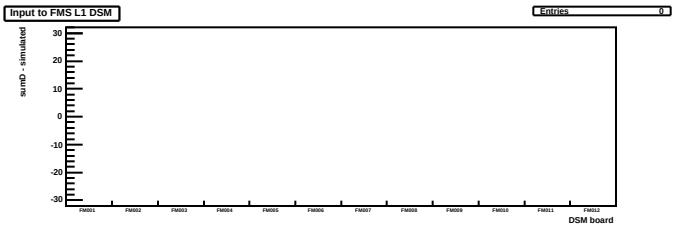

Input to FMS L0 DSM
Entries 1.565678e+07
HT ADC
QT board

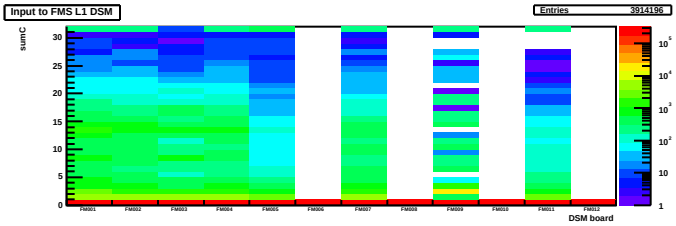

Input to FMS L0 DSM
Entries 43253
HT ADC - simulated
QT board

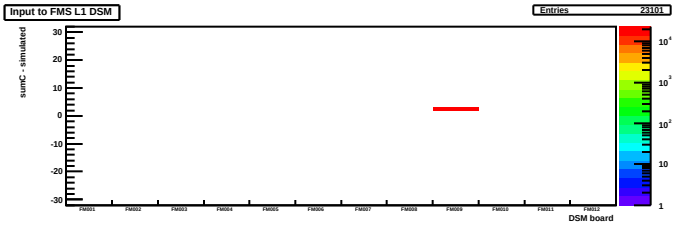

Input to FMS L0 DSM
Entries 1.565678e+07
HT ID
QT board

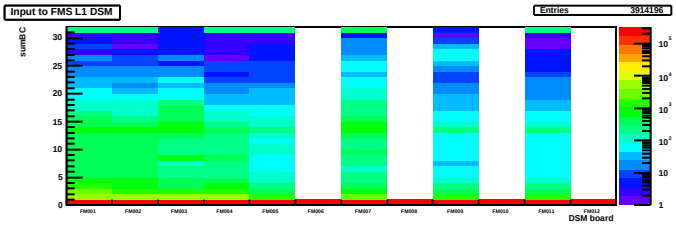

Input to FMS L0 DSM
Entries 373167
HT ID - simulated
QT board

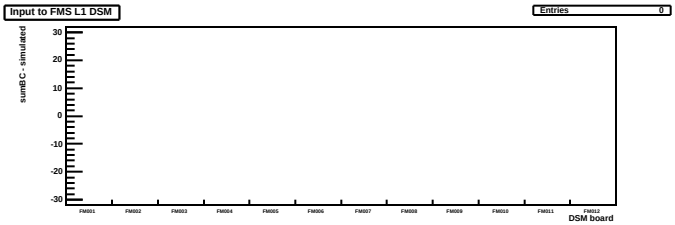

Input to FMS L1 DSM
Entries 3914196
sumD
DSM board

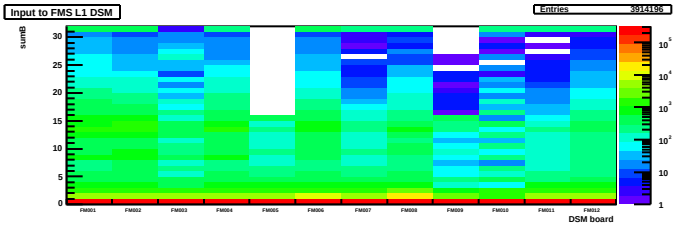

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

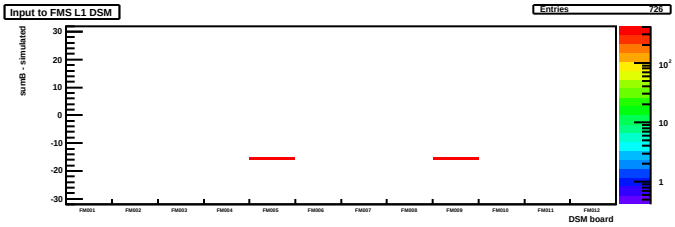

Input to FMS L1 DSM
Entries 3914196
sumC
DSM board

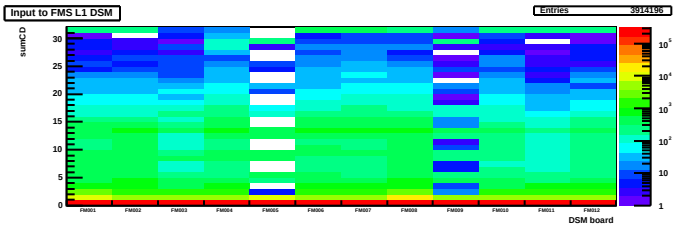

Input to FMS L1 DSM
Entries 23101
sumC - simulated
DSM board

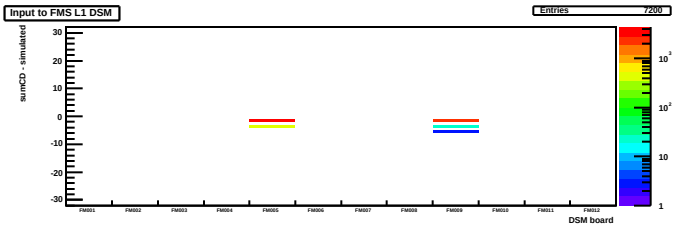

Input to FMS L1 DSM
Entries 3914196
sumBC
DSM board

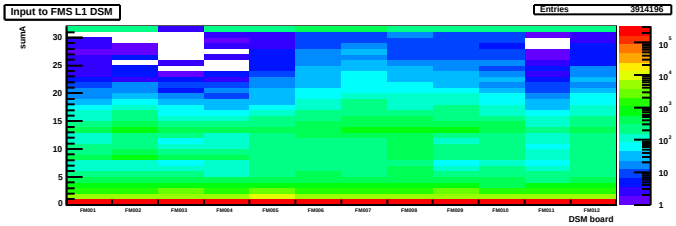

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

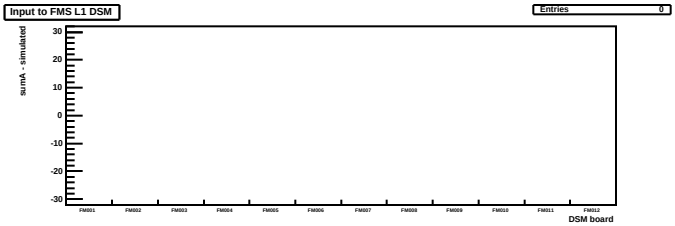

Input to FMS L1 DSM
Entries 3914196
sumB
DSM board

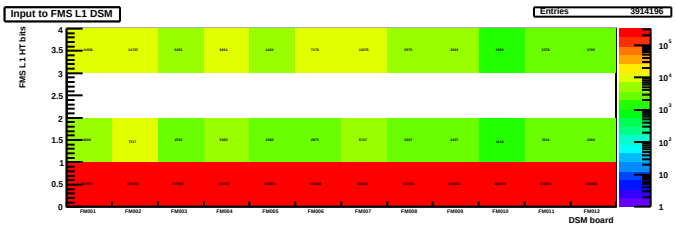

Input to FMS L1 DSM
Entries 726
sumB - simulated
DSM board

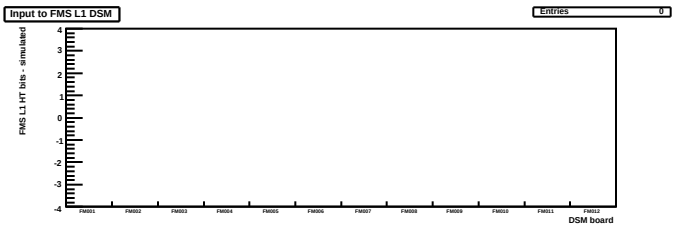

Input to FMS L1 DSM
Entries 3914196
sumCD
DSM board

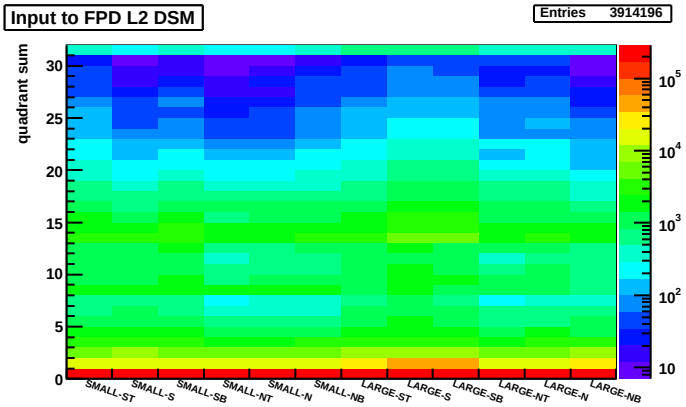

Input to FMS L1 DSM
Entries 7200
sumCD - simulated
DSM board

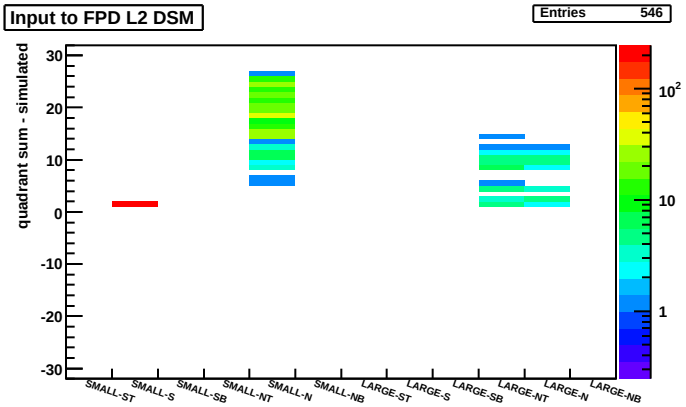

Input to FMS L1 DSM
Entries 3914196
sumA
DSM board

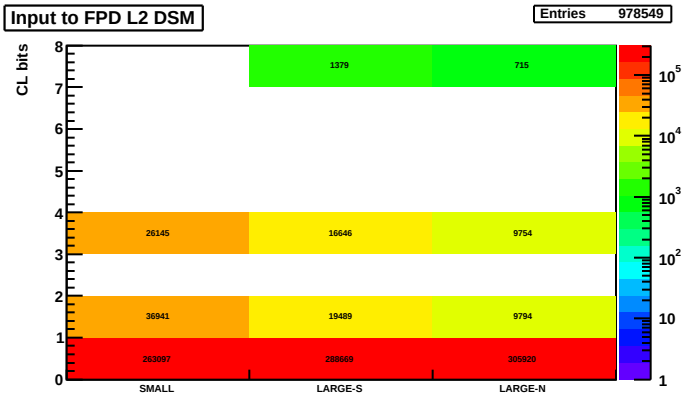

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

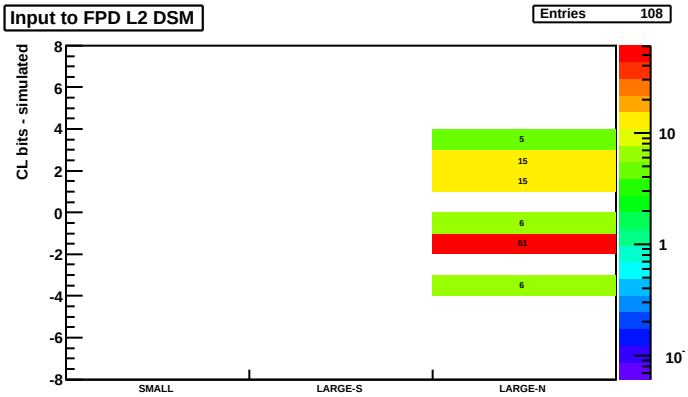

Input to FMS L1 DSM
Entries 3914196
FMS L1 HT bits
DSM board

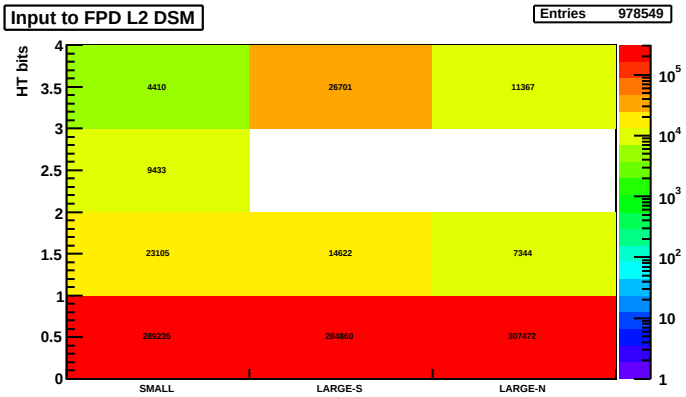

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

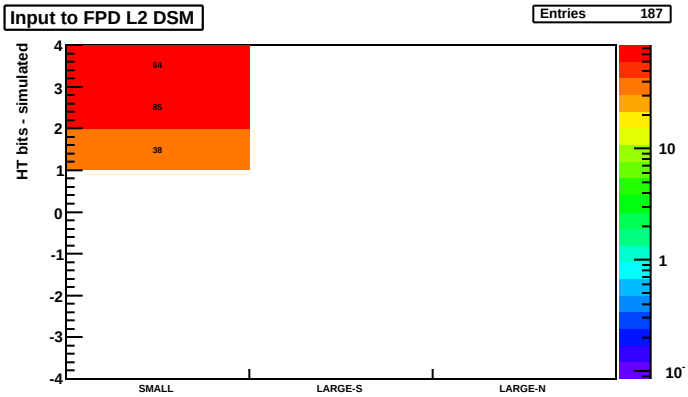

Input to FPD L2 DSM
Entries 3914196
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

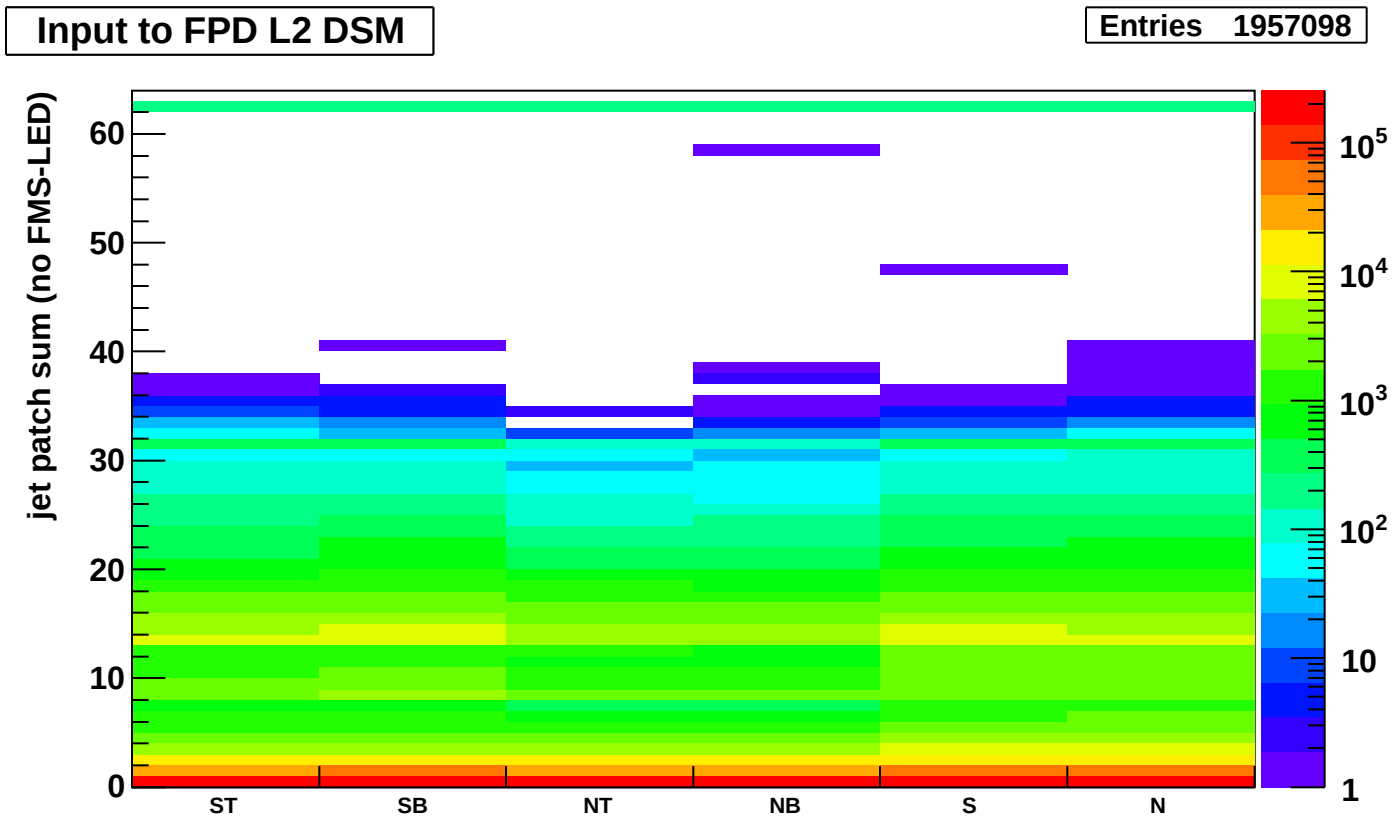

Input to FPD L2 DSM
Entries 546
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

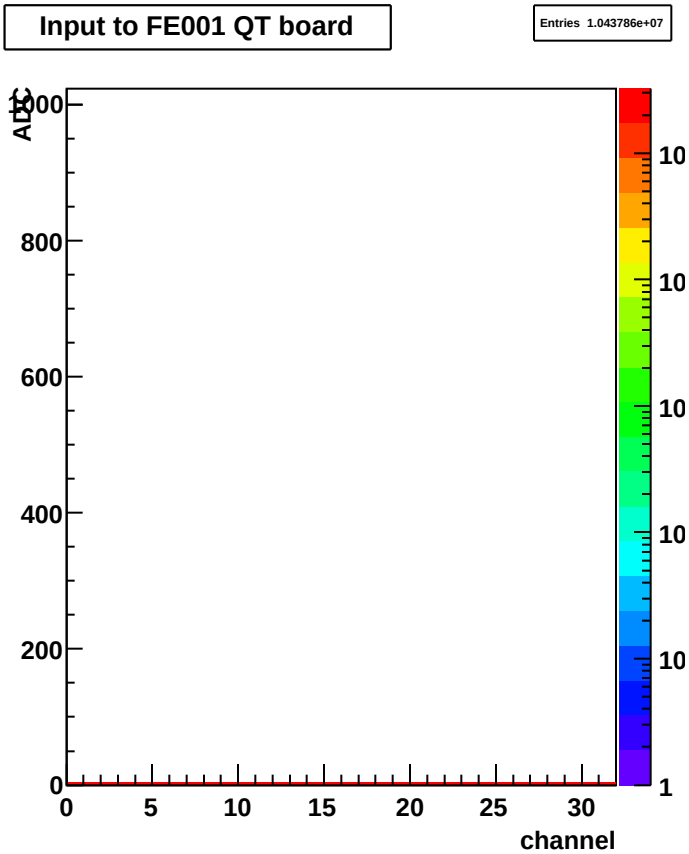

Input to FPD L2 DSM
Entries 978549
CL bits
1379
715
26145
16646
9754
36941
19489
9794
263097
288669
305920
SMALL
LARGE-S
LARGE-N

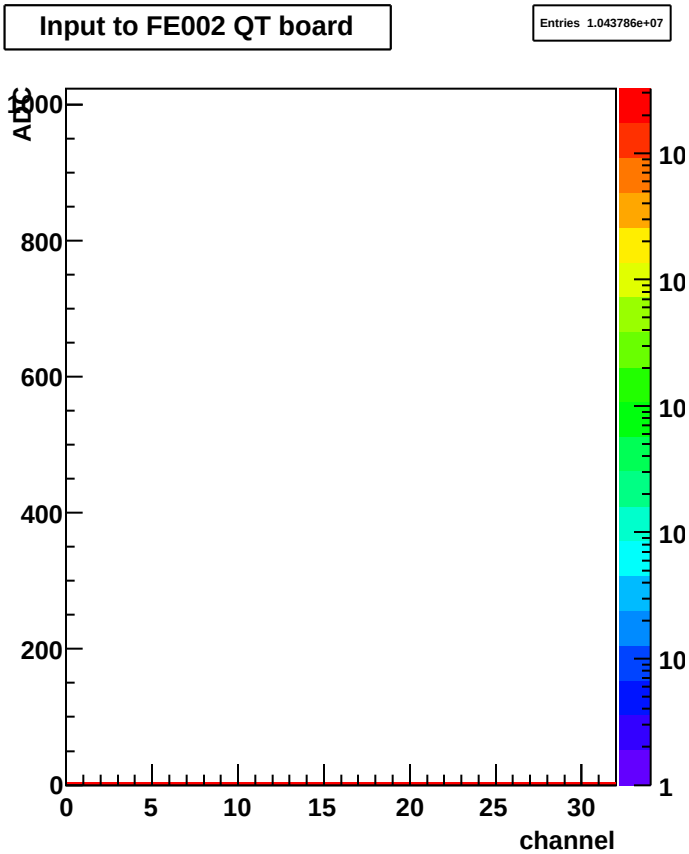

Input to FPD L2 DSM
Entries 108
CL bits - simulated
5
15
15
6
61
6
SMALL
LARGE-S
LARGE-N

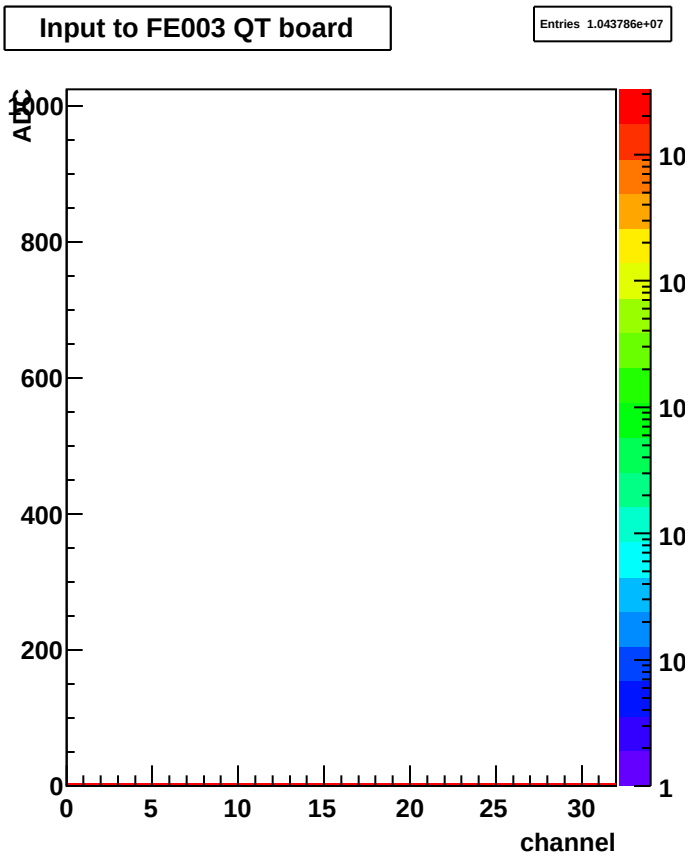

Input to FPD L2 DSM
Entries 978549
HT bits
4410
26701
11367
9433
23105
14622
7344
289235
284860
307472
SMALL
LARGE-S
LARGE-N

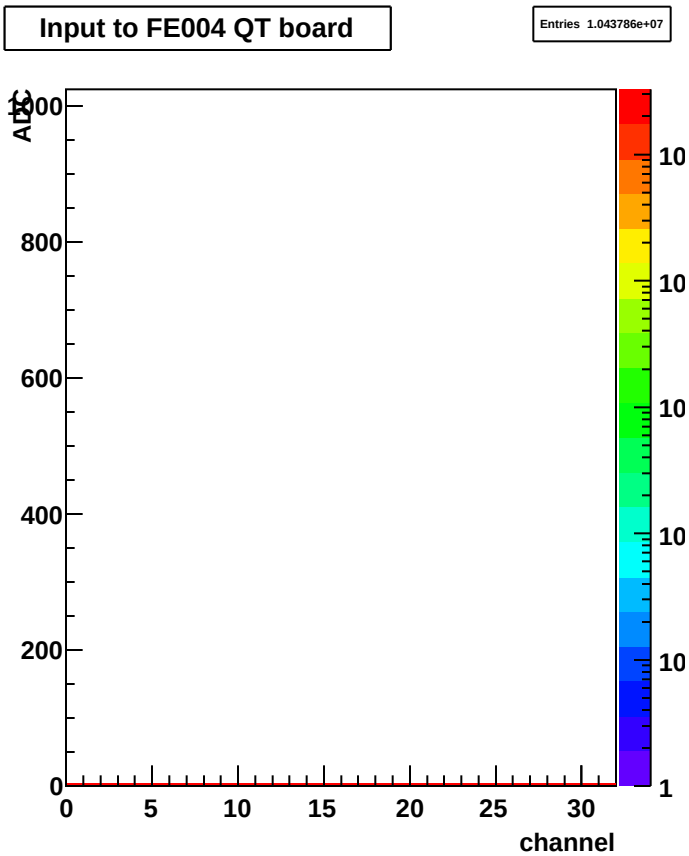

Input to FPD L2 DSM
Entries 187
HT bits - simulated
64
85
38
SMALL
LARGE-S
LARGE-N

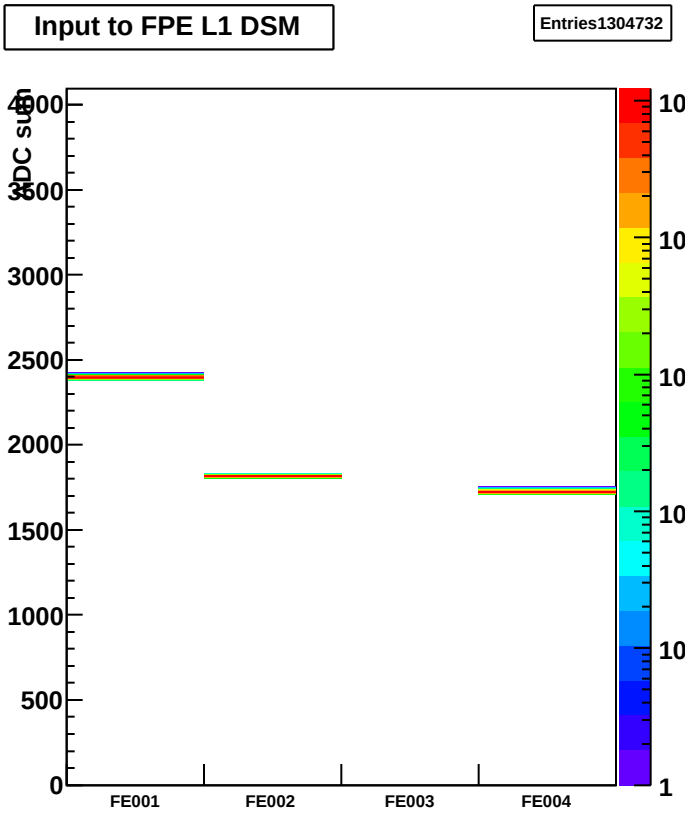

Input to FPD L2 DSM
Entries 1957098
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

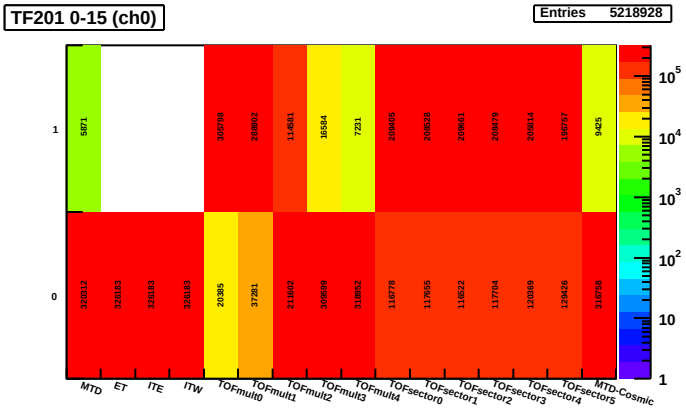

Input to FE001 QT board
Entries 1.043786e+07
ADC
channel

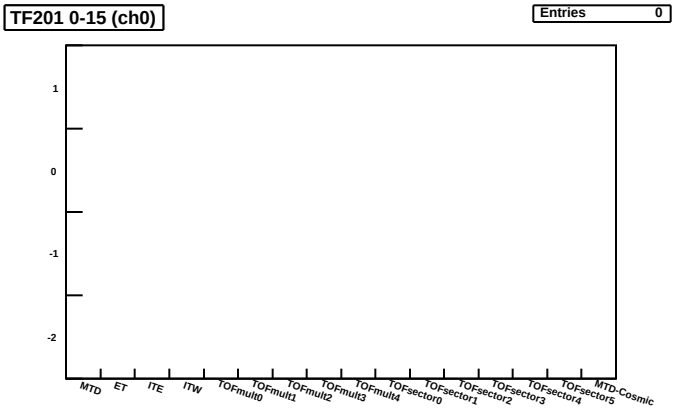

Input to FE002 QT board
Entries 1.043786e+07
ADC
channel

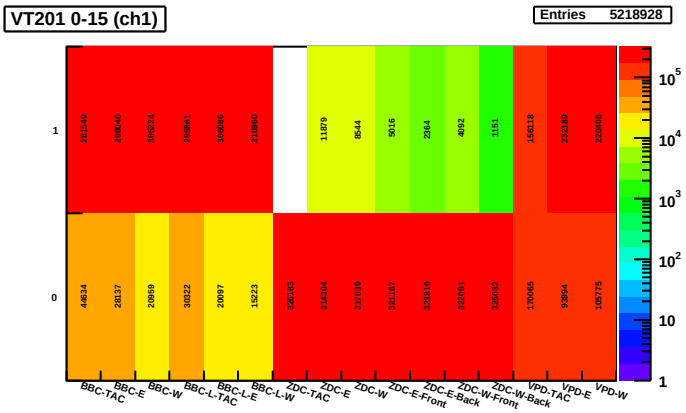

Input to FE003 QT board
Entries 1.043786e+07
ADC
channel

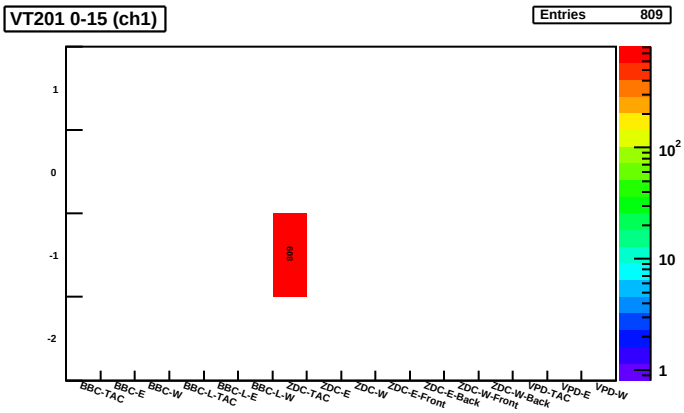

Input to FE004 QT board
Entries 1.043786e+07
ADC
channel

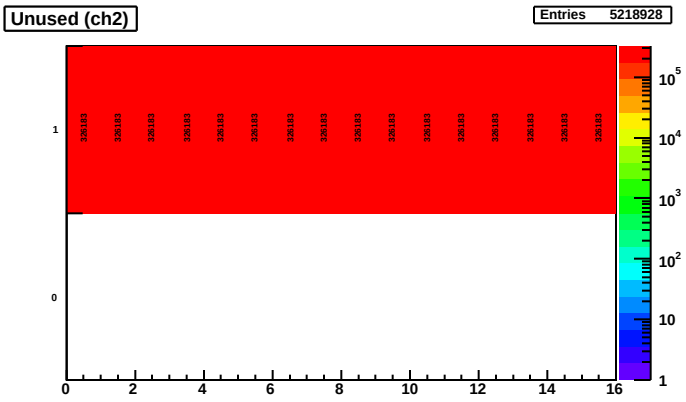

Input to FPE L1 DSM
Entries1304732
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

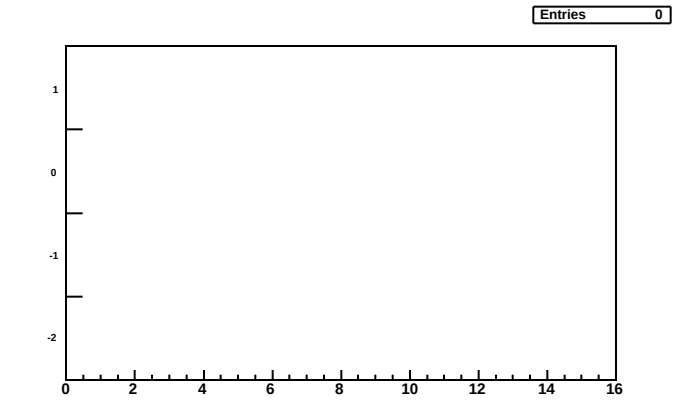

TF201 0-15 (ch0)
Entries 5218928
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


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 5218928
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 809
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 5218928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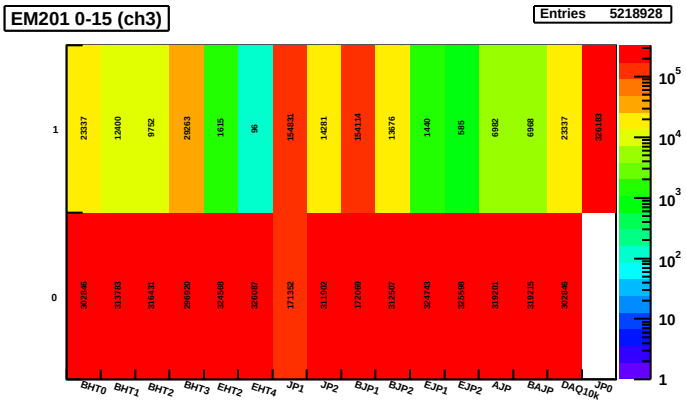
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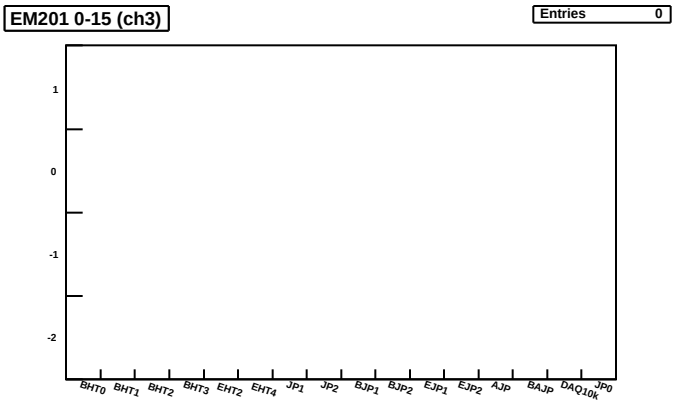
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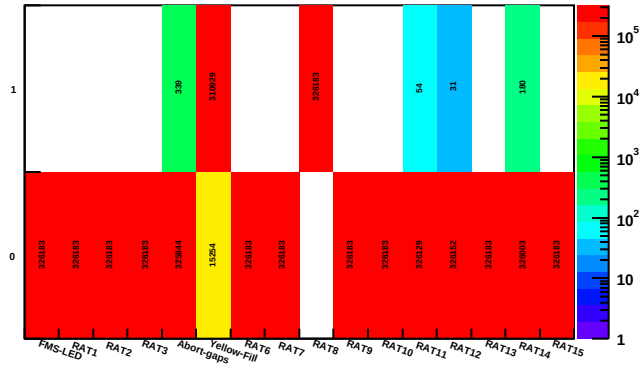
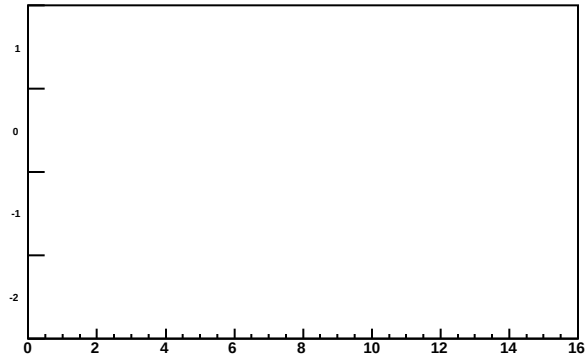
RAT board (ch4)





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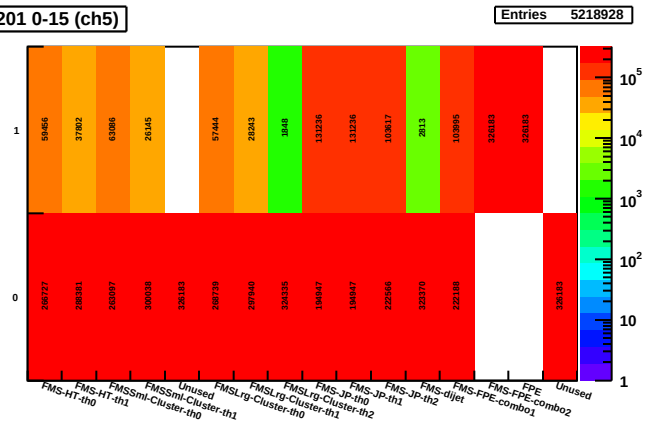

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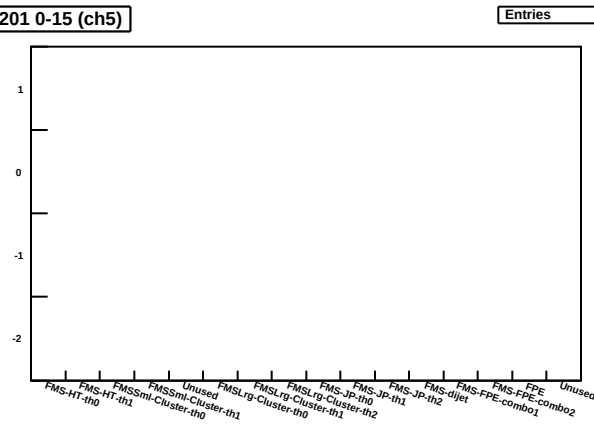

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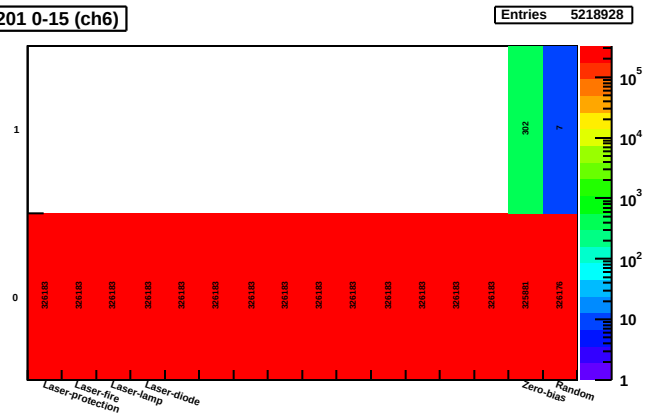

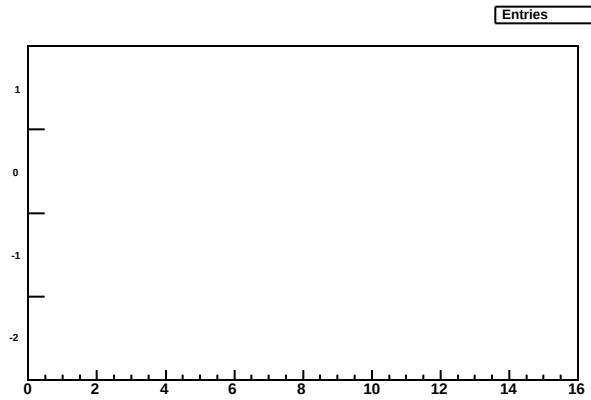
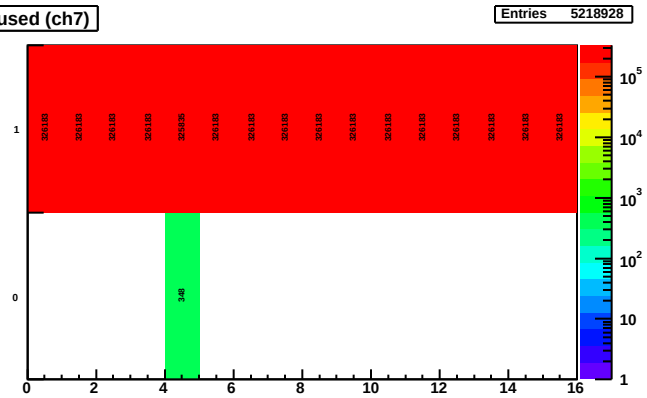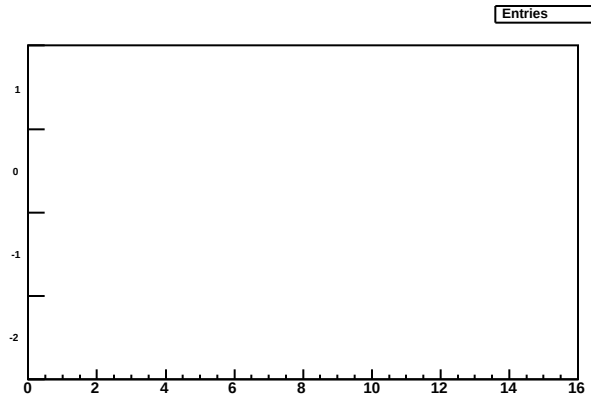
Unused (ch7)