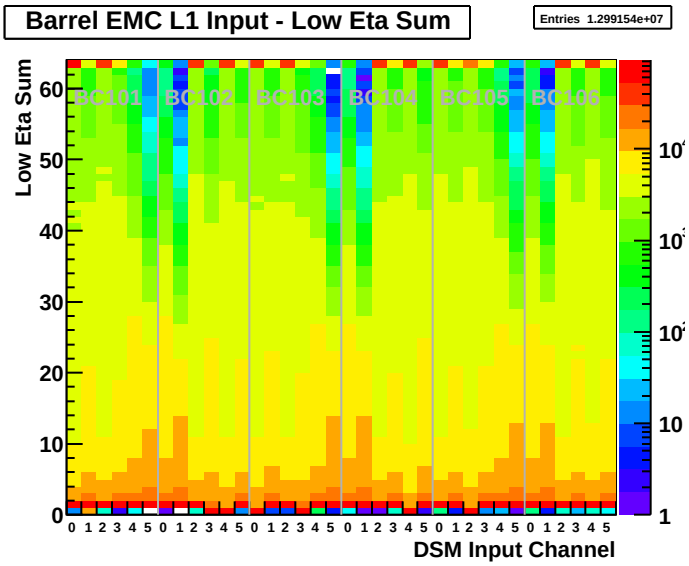
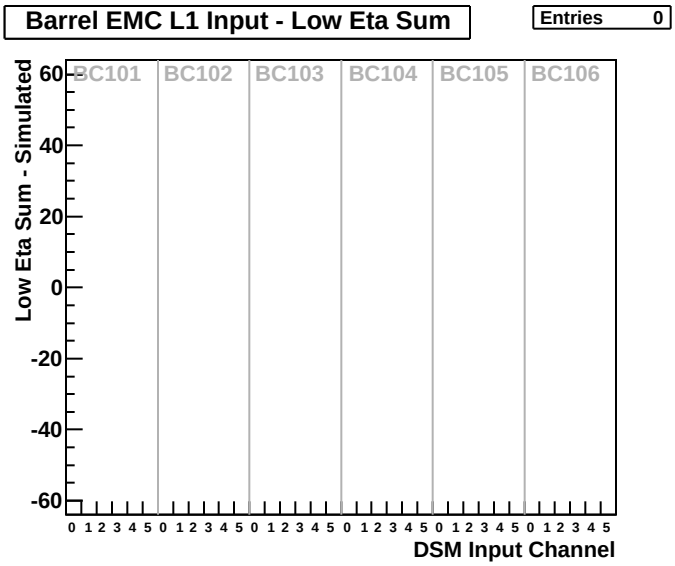
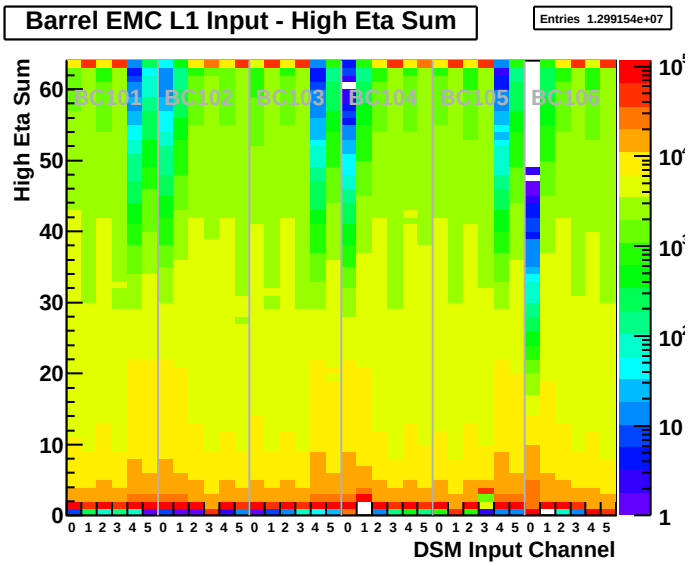
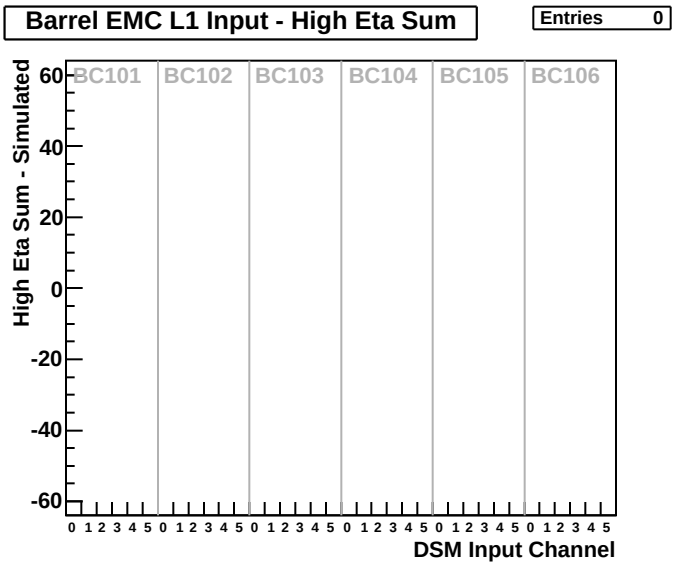
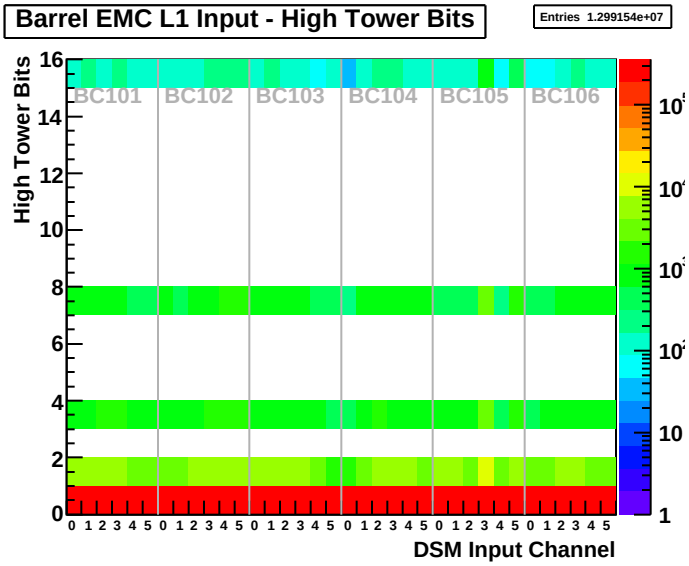
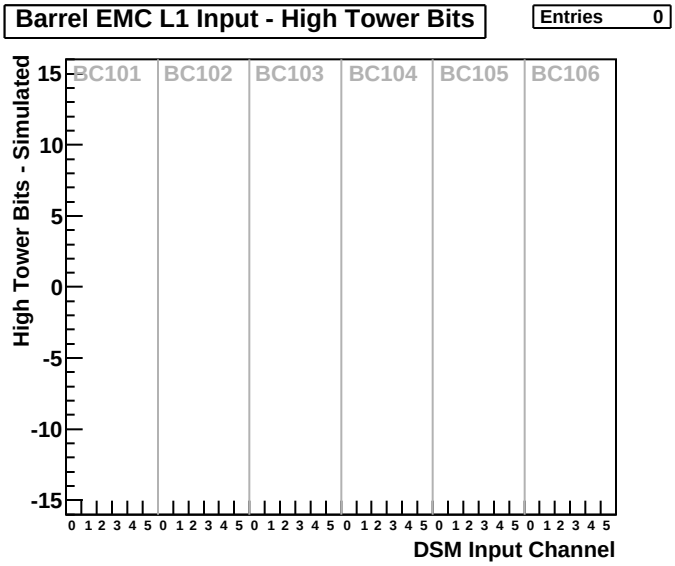

Barrel EMC L1 Input - Low Eta Sum
Entries 1.299154e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

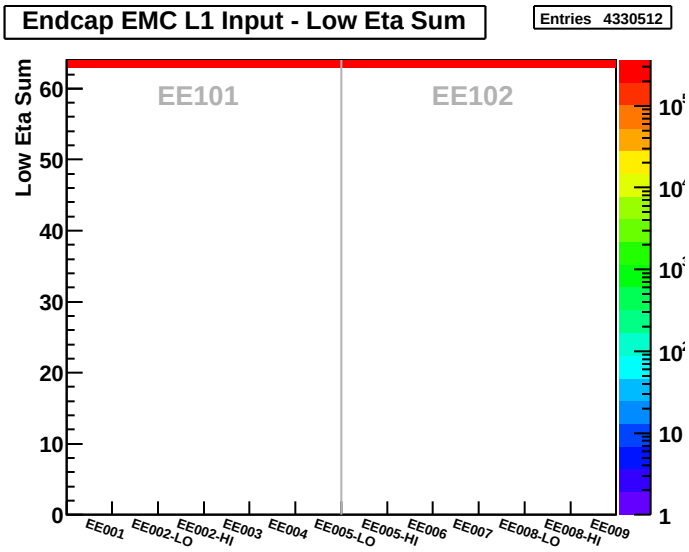

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

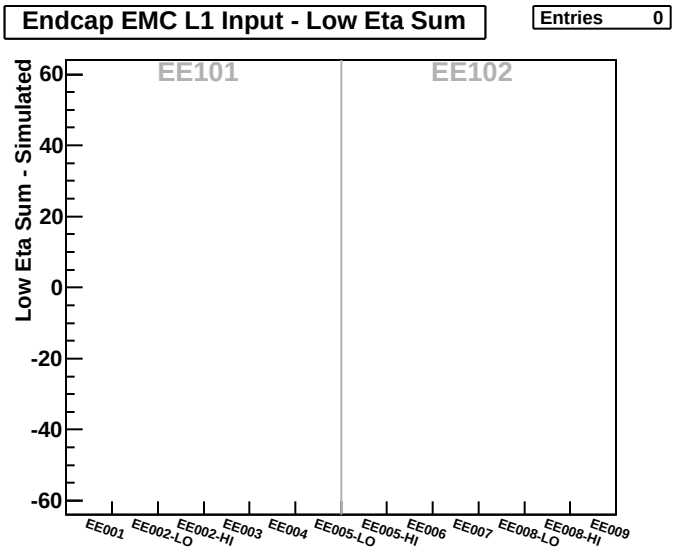

Barrel EMC L1 Input - High Eta Sum
Entries 1.299154e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

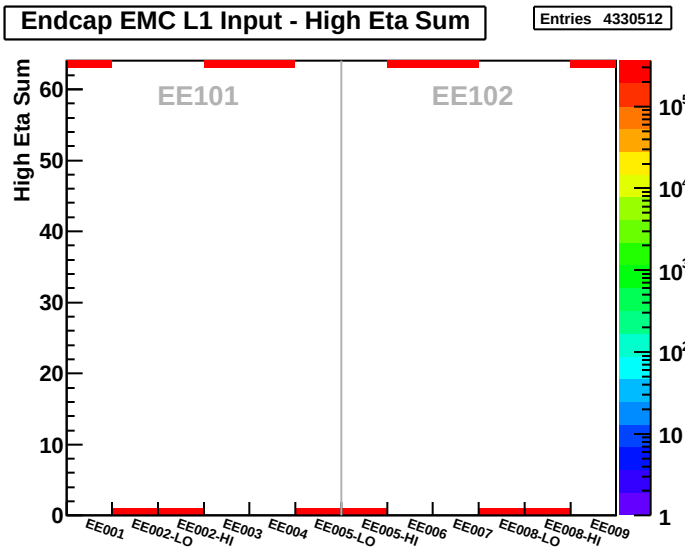

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

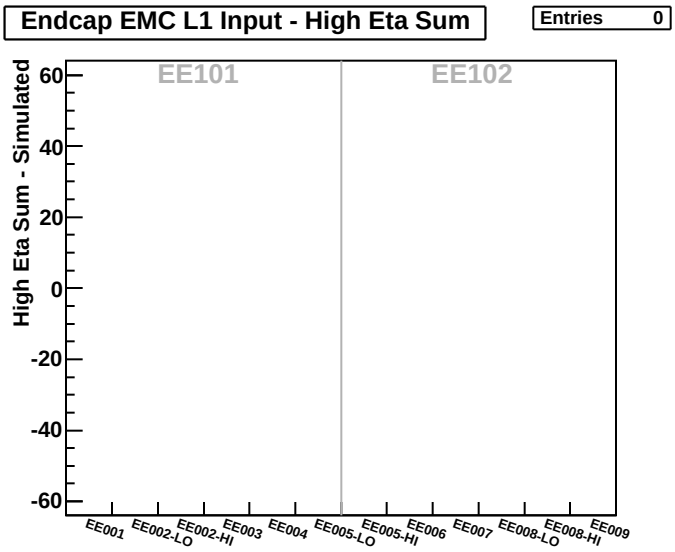

Barrel EMC L1 Input - High Tower Bits
Entries 1.299154e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

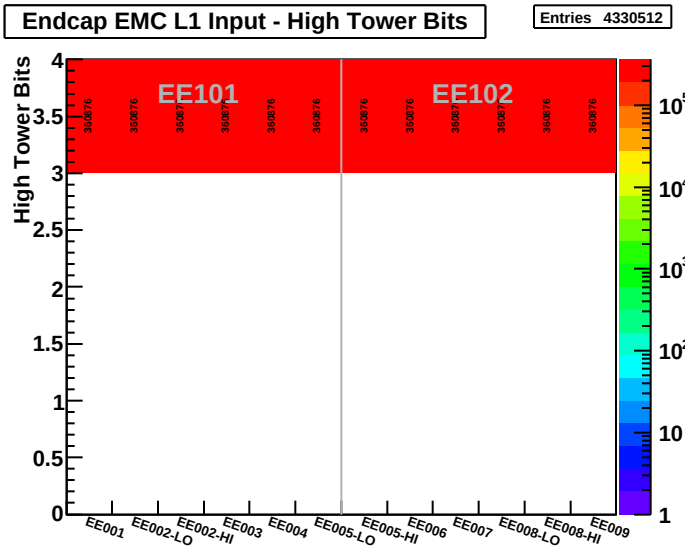

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

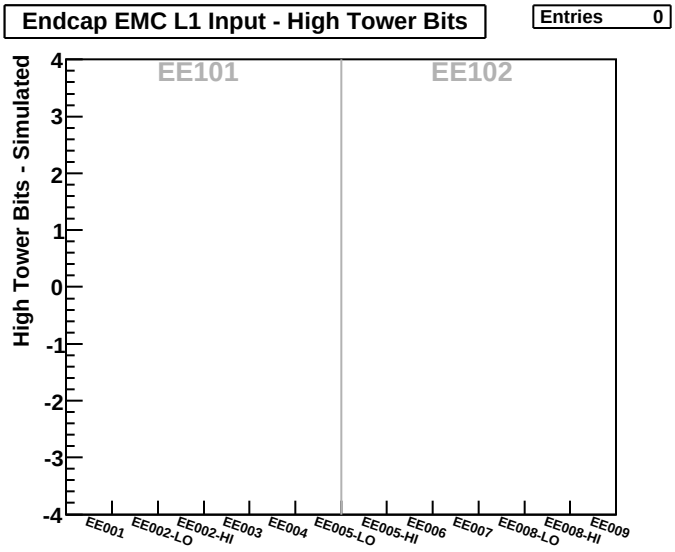

Endcap EMC L1 Input - Low Eta Sum
Entries 4330512
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

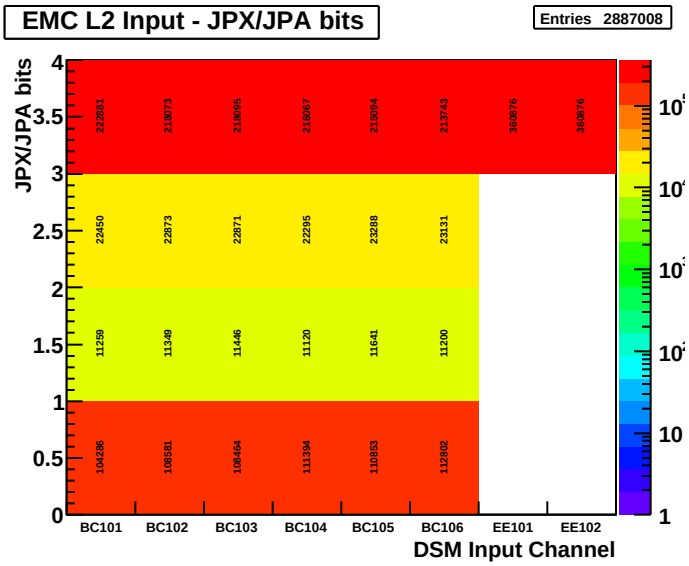

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

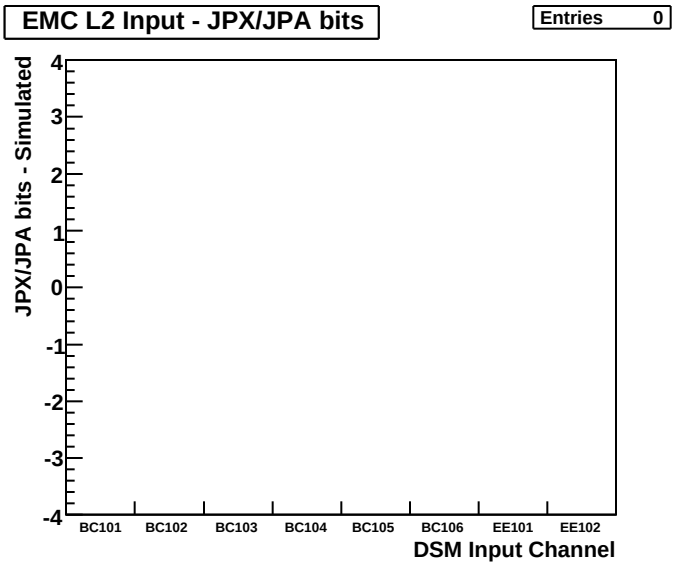

Endcap EMC L1 Input - High Eta Sum
Entries 4330512
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

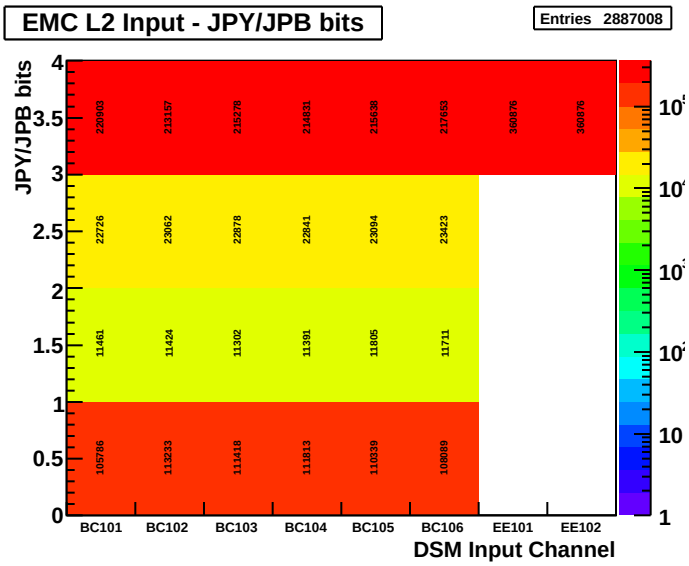

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

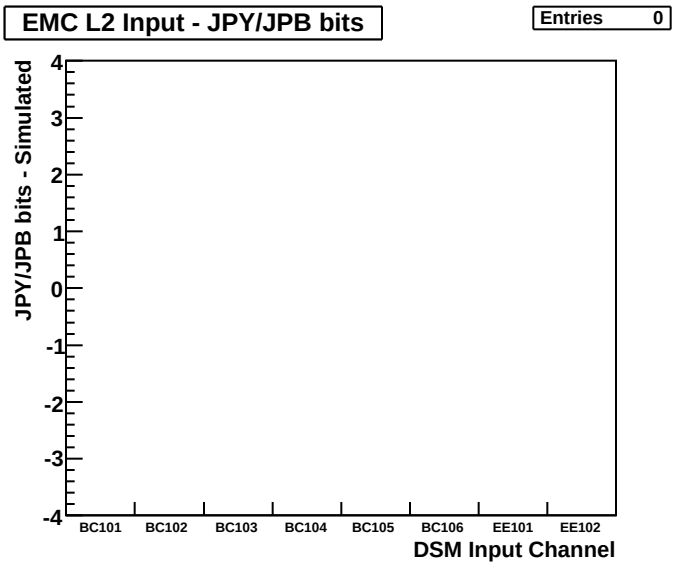

Endcap EMC L1 Input - High Tower Bits
Entries 4330512
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

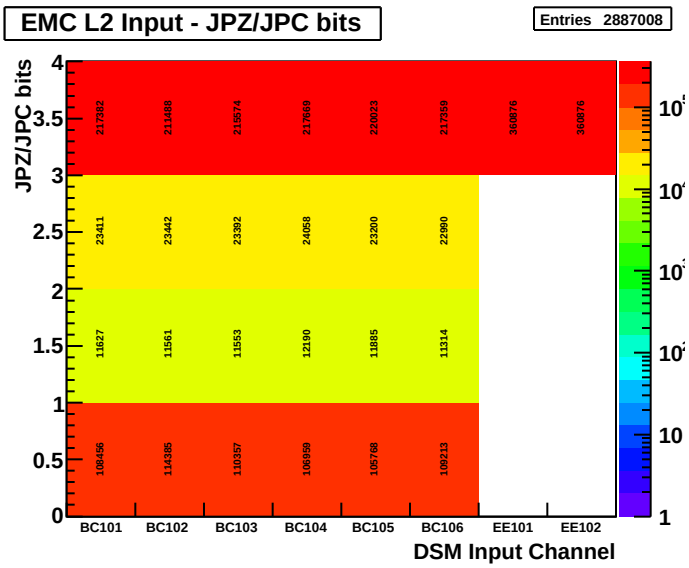

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

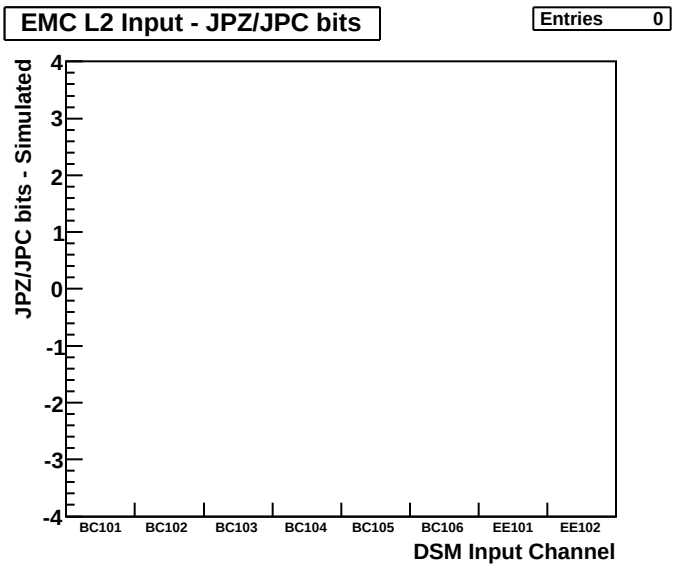

EMC L2 Input - JPX/JPA bits
Entries 2887008
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
222881 218073 218095 216067 215094 213743 360876 360876
22450 22873 22871 22295 23288 23131
11259 11349 11446 11120 11641 11200
104286 108581 108464 111394 110853 112802

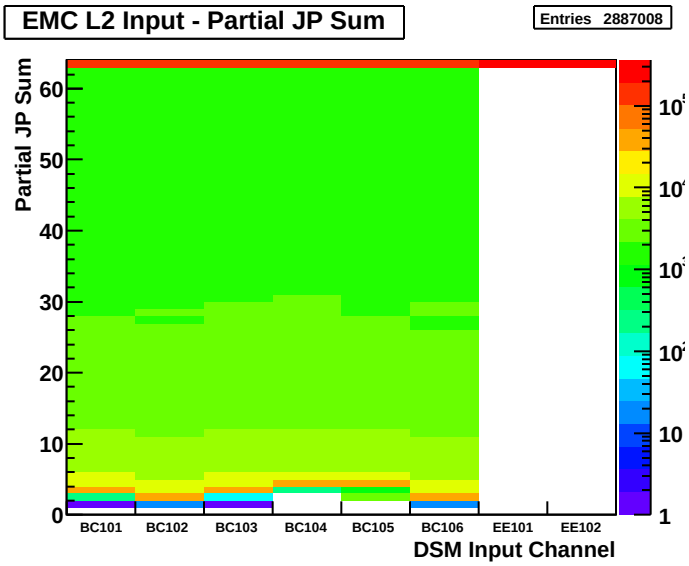

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

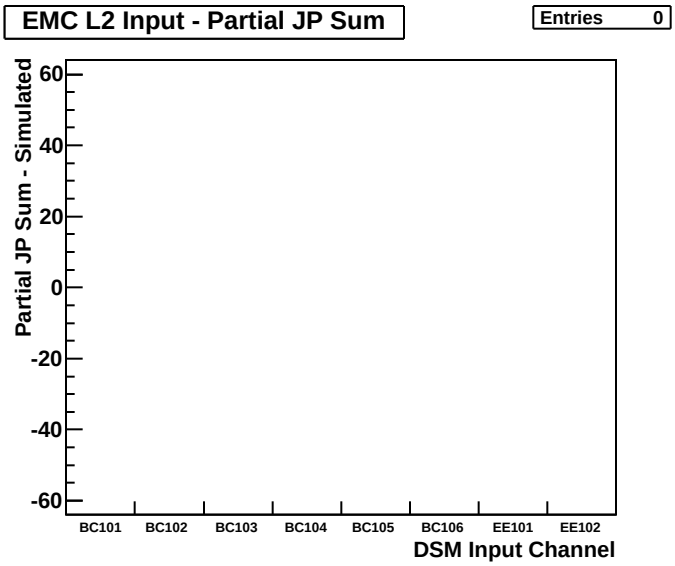

EMC L2 Input - JPY/JPB bits
Entries 2887008
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
220903 213157 215278 214831 215638 217653 360876 360876
22726 23062 22878 22841 23094 23423
11461 11424 11302 11391 11805 11711
105786 113233 111418 111813 110339 108089

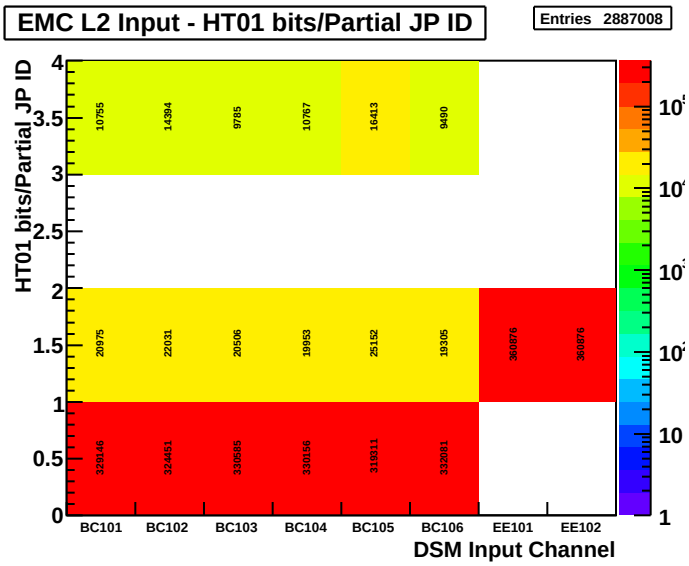

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

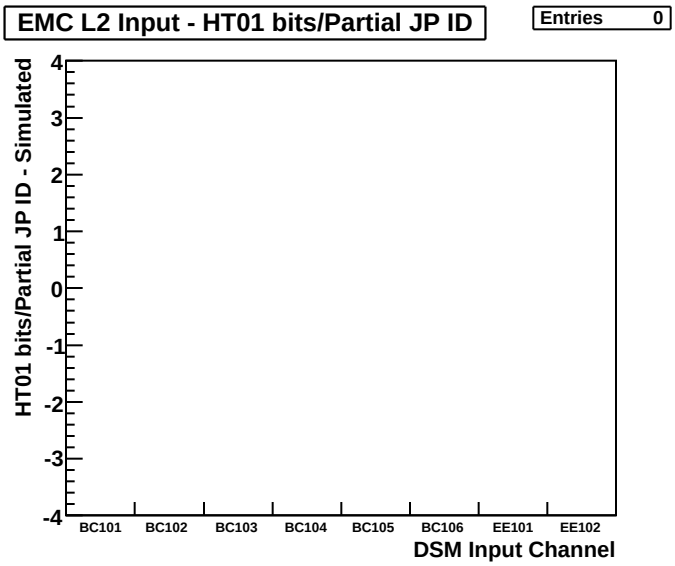

EMC L2 Input - JPZ/JPC bits
Entries 2887008
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
217382 214488 215574 217669 220023 217359 360876 360876
23411 23442 23392 24058 23200 22990
11627 11561 11553 12190 11885 11314
108456 114385 110357 106959 105768 109213

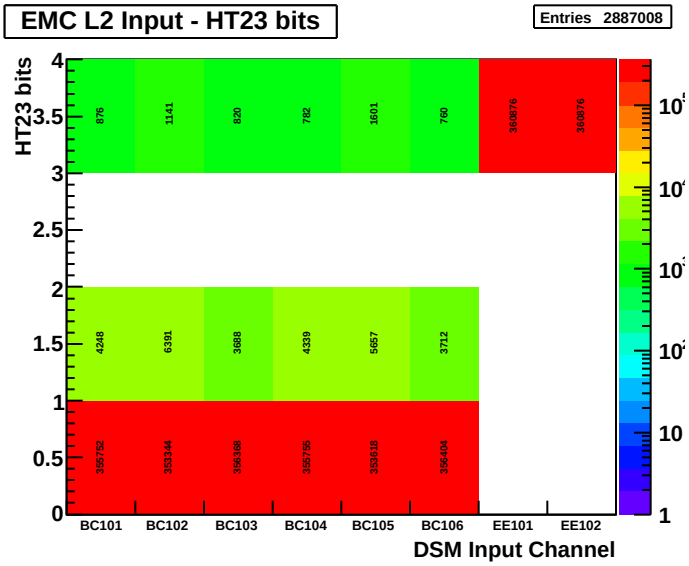

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

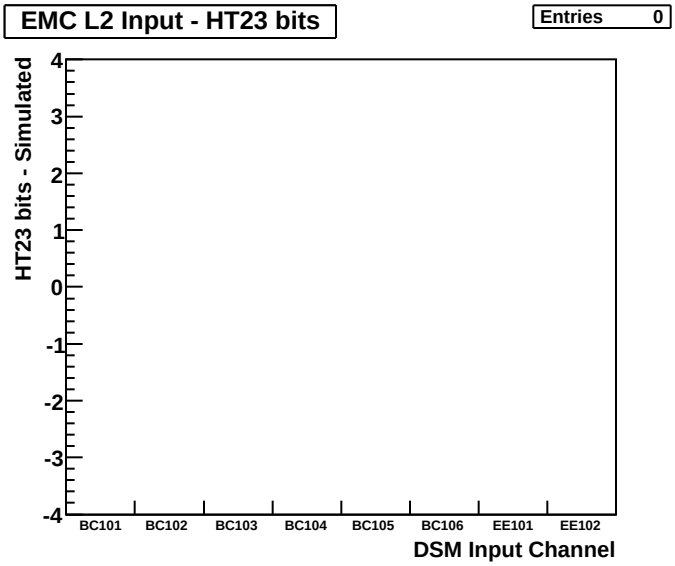

EMC L2 Input - Partial JP Sum
Entries 2887008
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

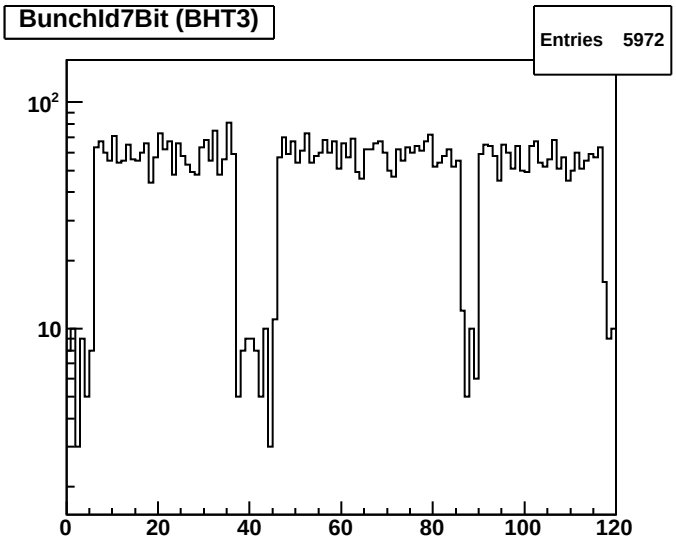

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

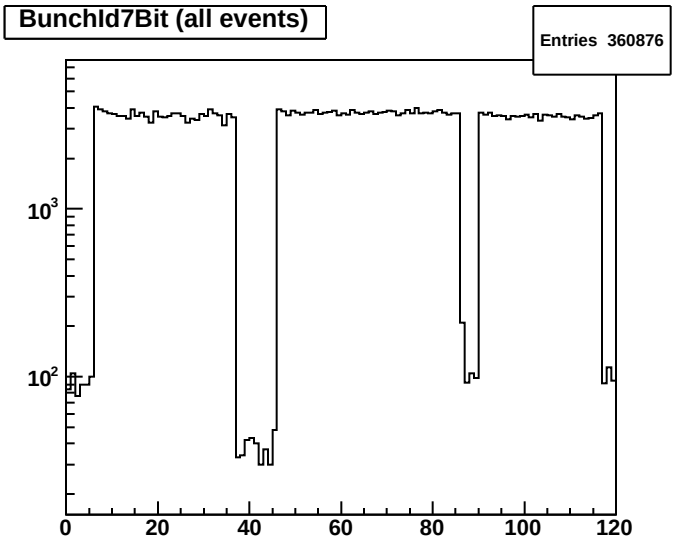

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2887008
HT01 bits/Partial JP ID
10755 14394 9785 10767 16413 9490
20975 22031 20506 19953 25152 19305 360876 360876
328146 324451 330585 330156 319311 332081
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

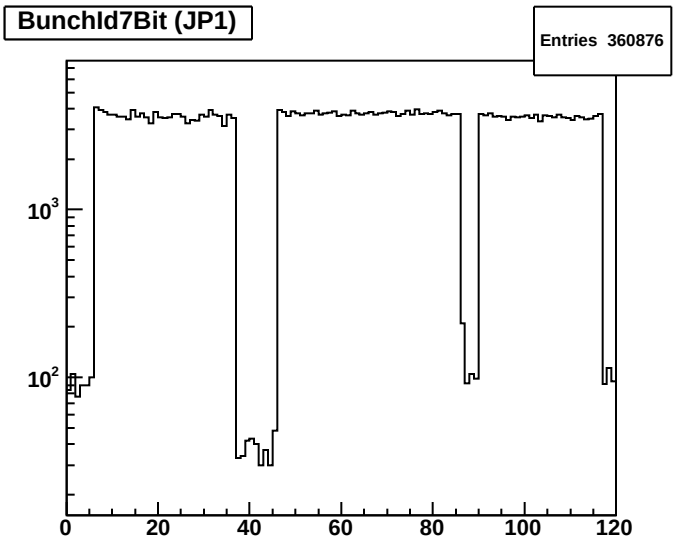

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

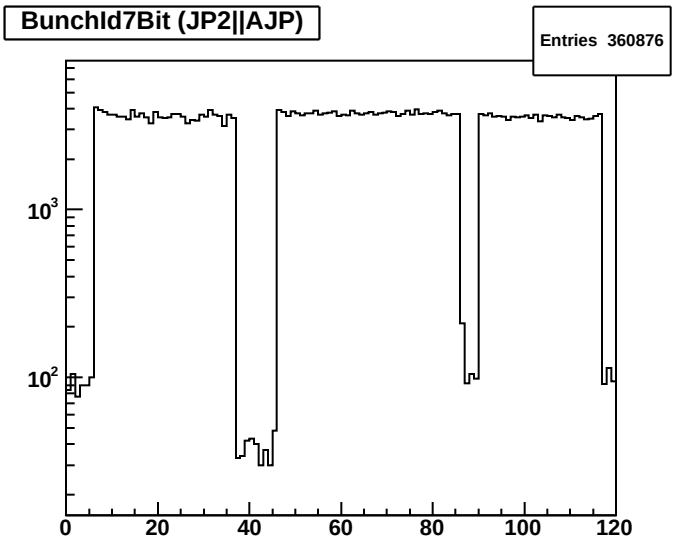

EMC L2 Input - HT23 bits
Entries 2887008
HT23 bits
876 1141 820 782 1601 760 360876 360876
4248 6391 3688 4339 5657 3712
355752 353344 356369 355755 353618 356404
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

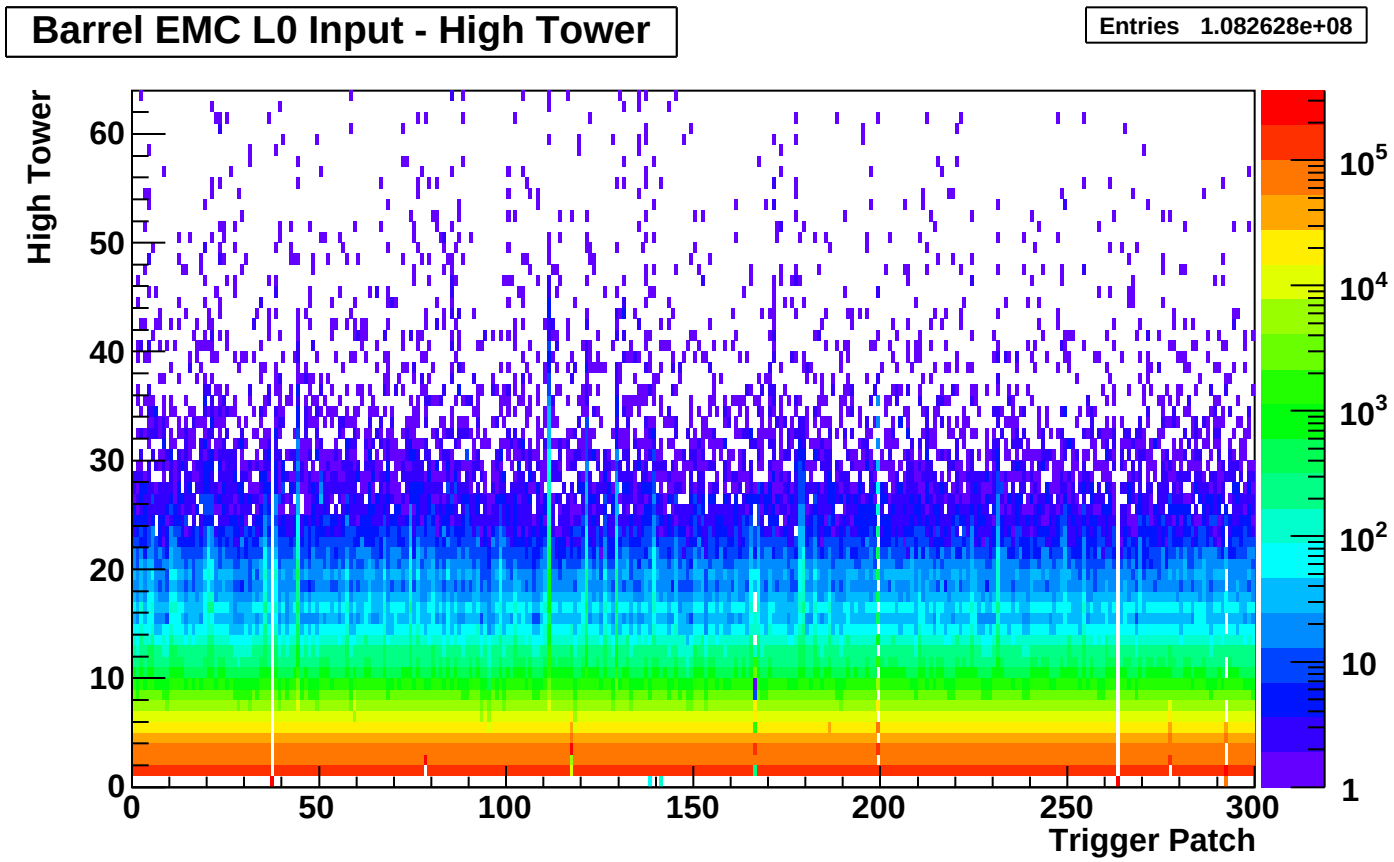

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

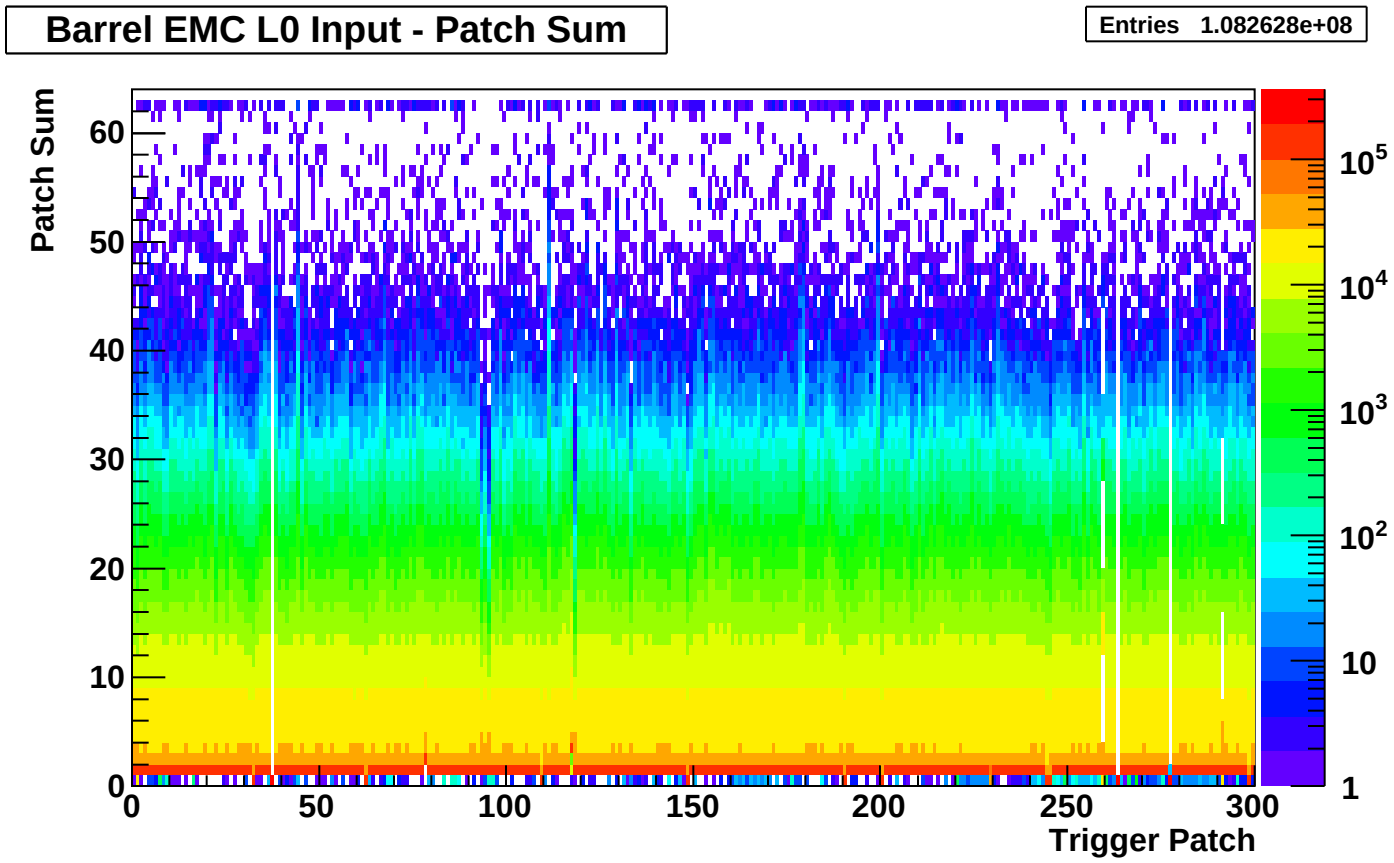

BunchId7Bit (BHT3)
Entries 5972
10^2
10
0
20
40
60
80
100
120

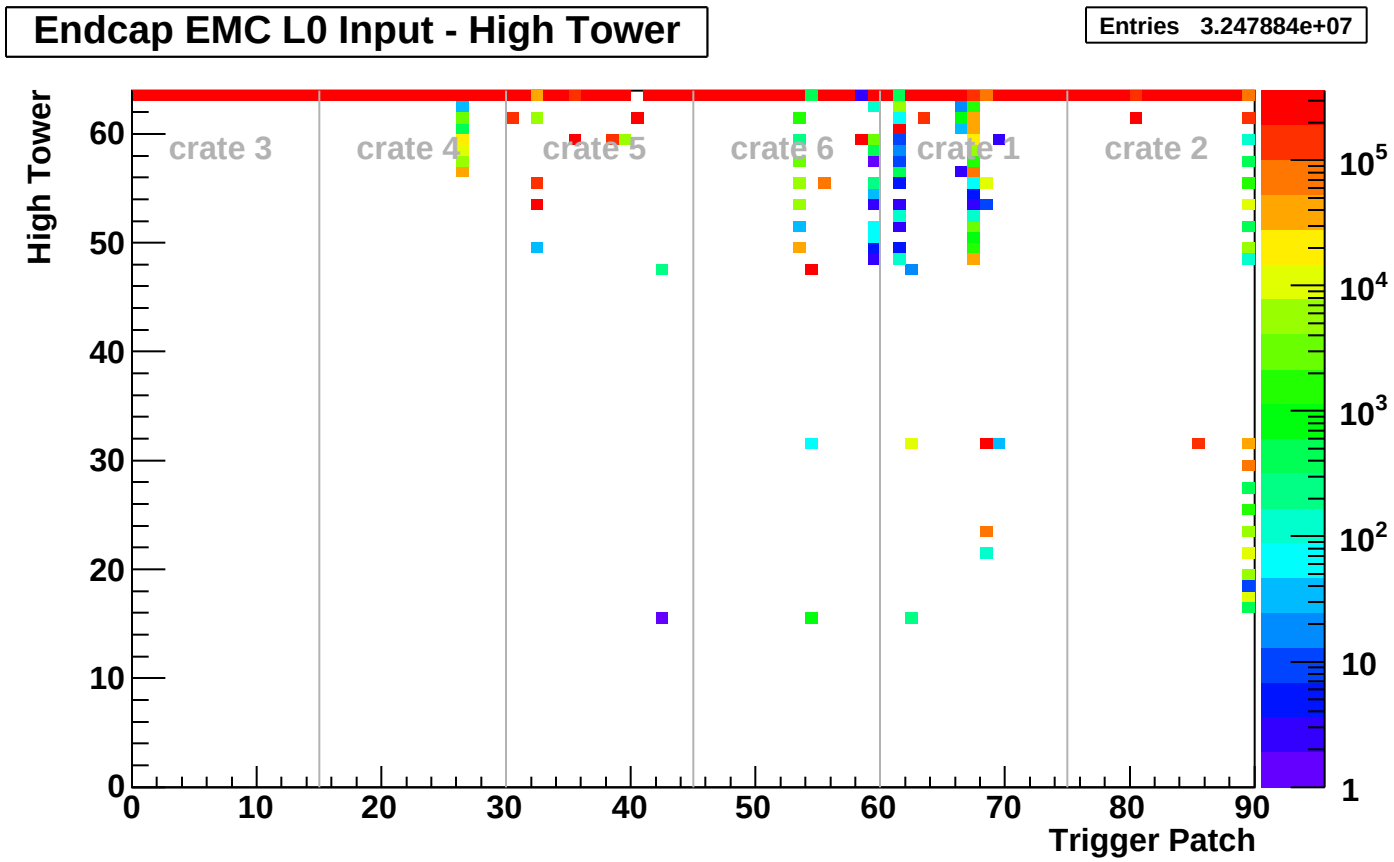

BunchId7Bit (all events)
Entries 360876
10^3
10^2
0
20
40
60
80
100
120

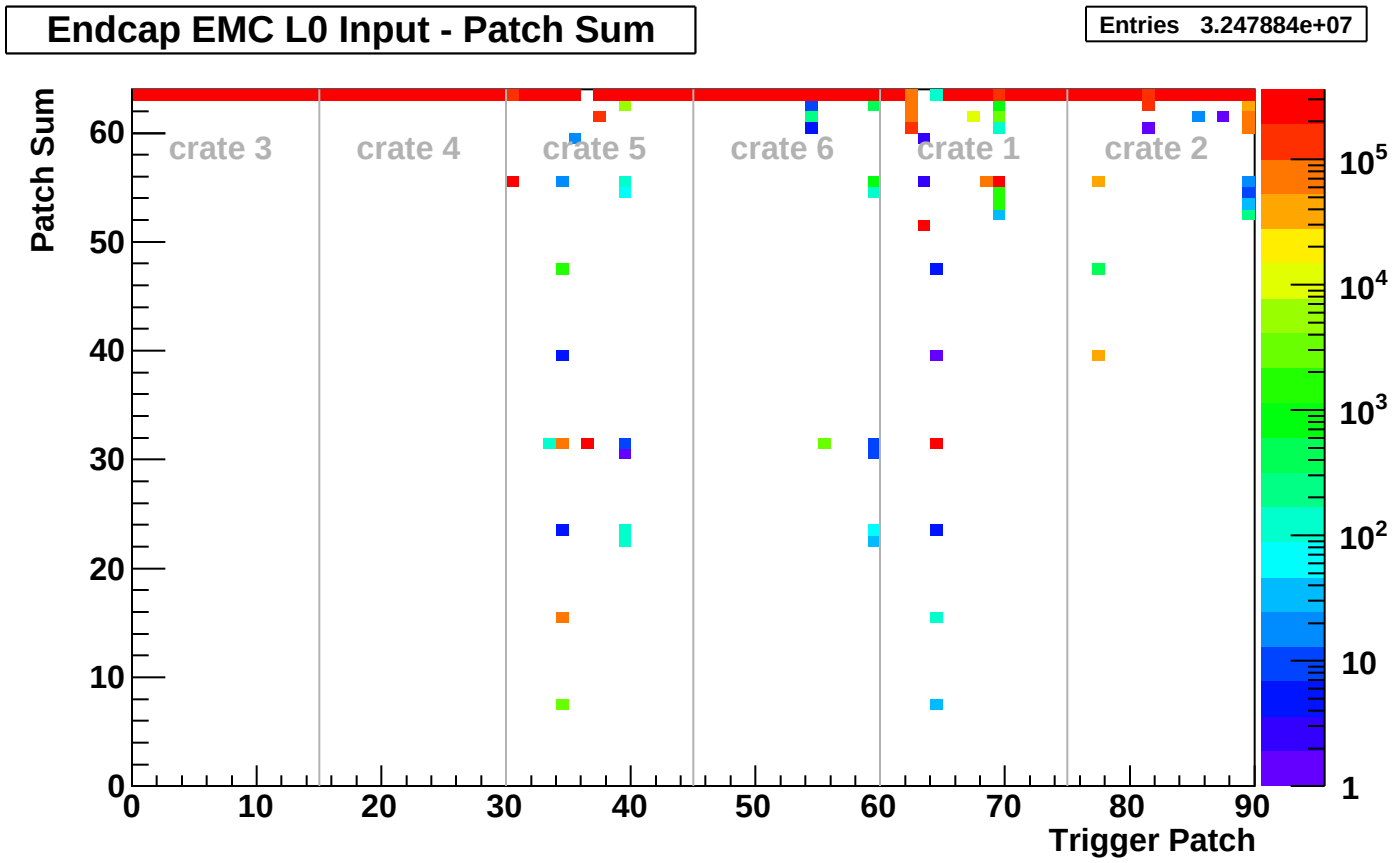

BunchId7Bit (JP1)
Entries 360876
10^3
10^2
0
20
40
60
80
100
120

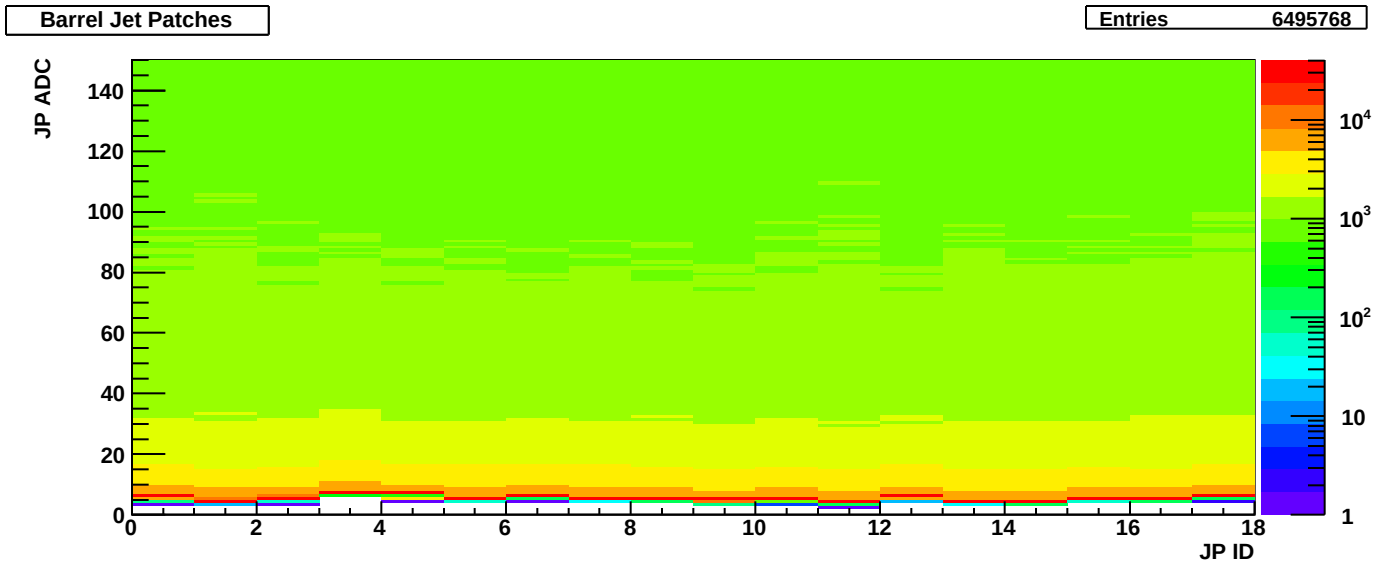

BunchId7Bit (JP2||AJP)
Entries 360876
10^3
10^2
0
20
40
60
80
100
120

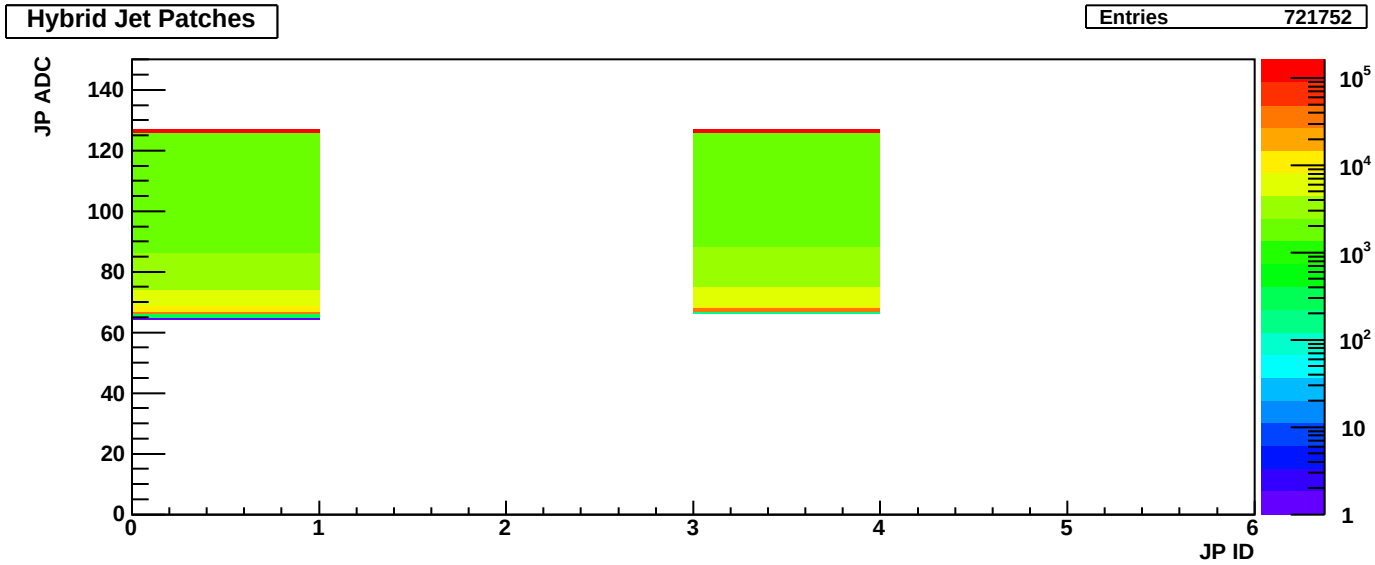

Barrel EMC L0 Input - High Tower
Entries 1.082628e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

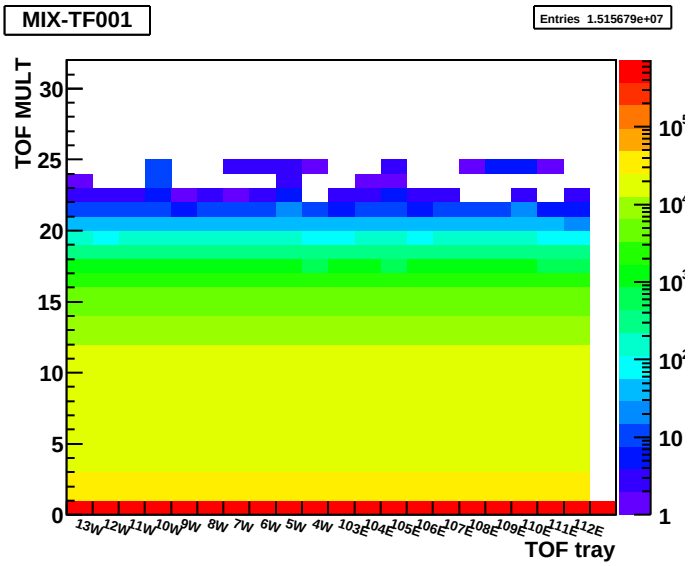

Barrel EMC L0 Input - Patch Sum
Entries 1.082628e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

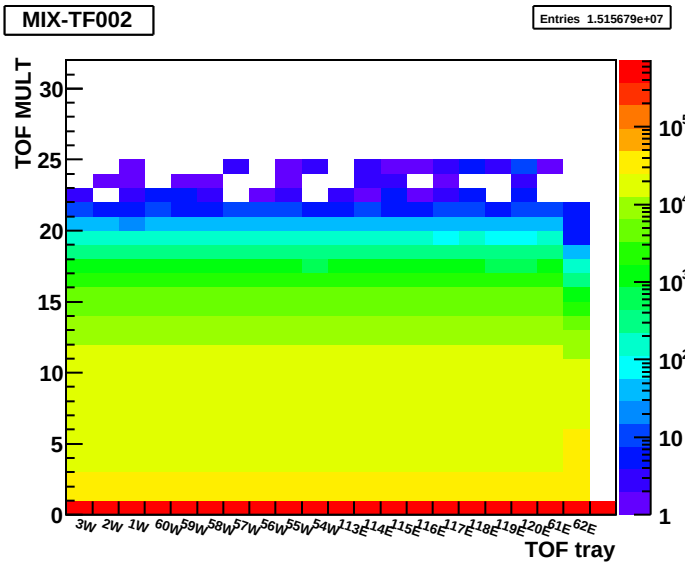

Endcap EMC L0 Input - High Tower
Entries 3.247884e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

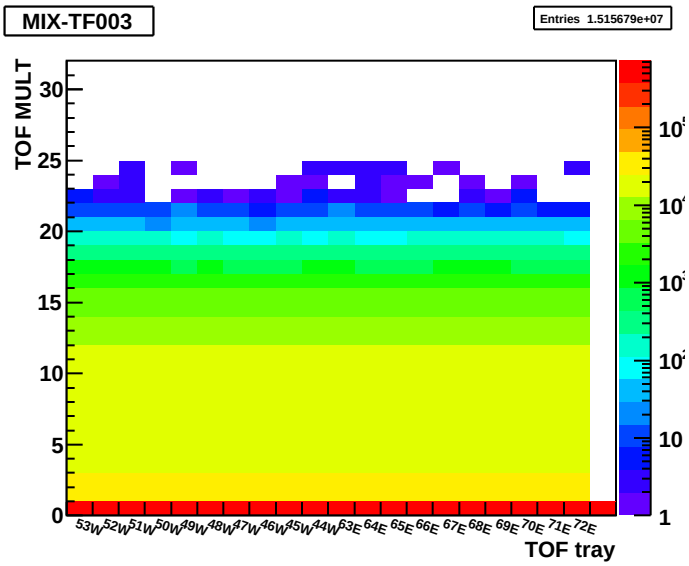

Endcap EMC L0 Input - Patch Sum
Entries 3.247884e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

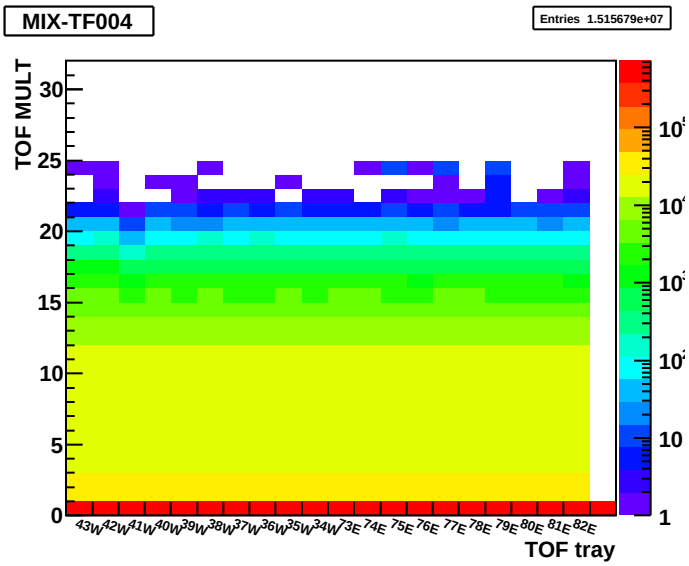

Barrel Jet Patches
Entries 6495768
JP ADC
JP ID

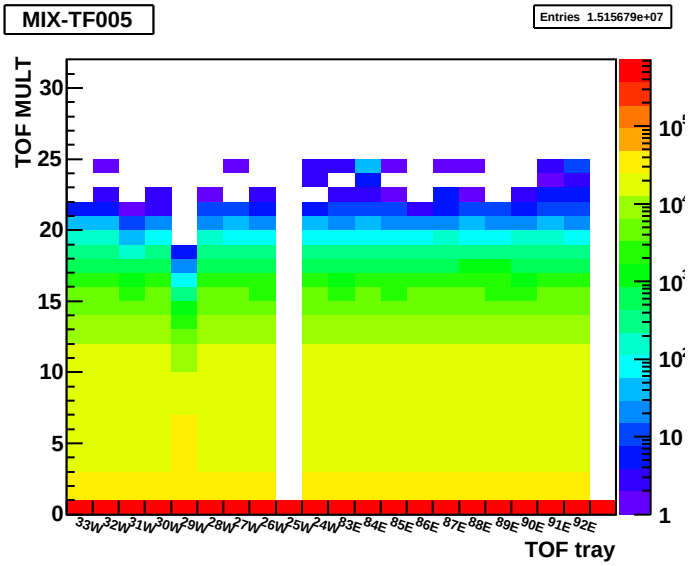

Hybrid Jet Patches
Entries 721752
JP ADC
JP ID

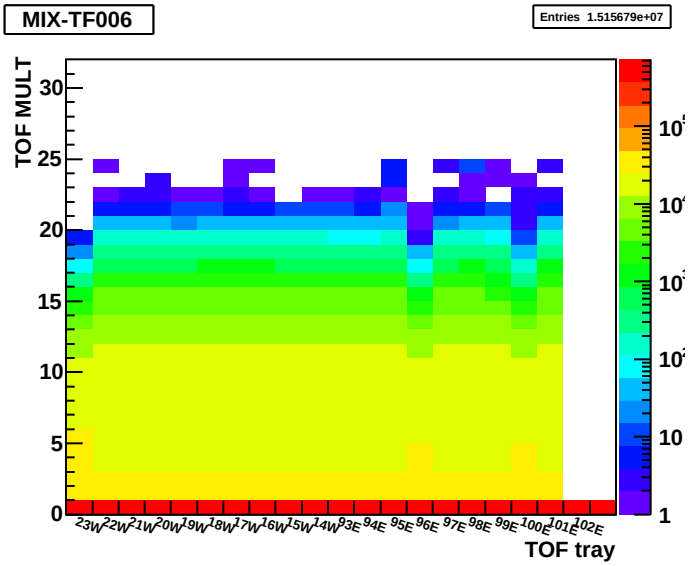

MIX-TF001
Entries 1.515679e+07
TOF MULT
TOF tray

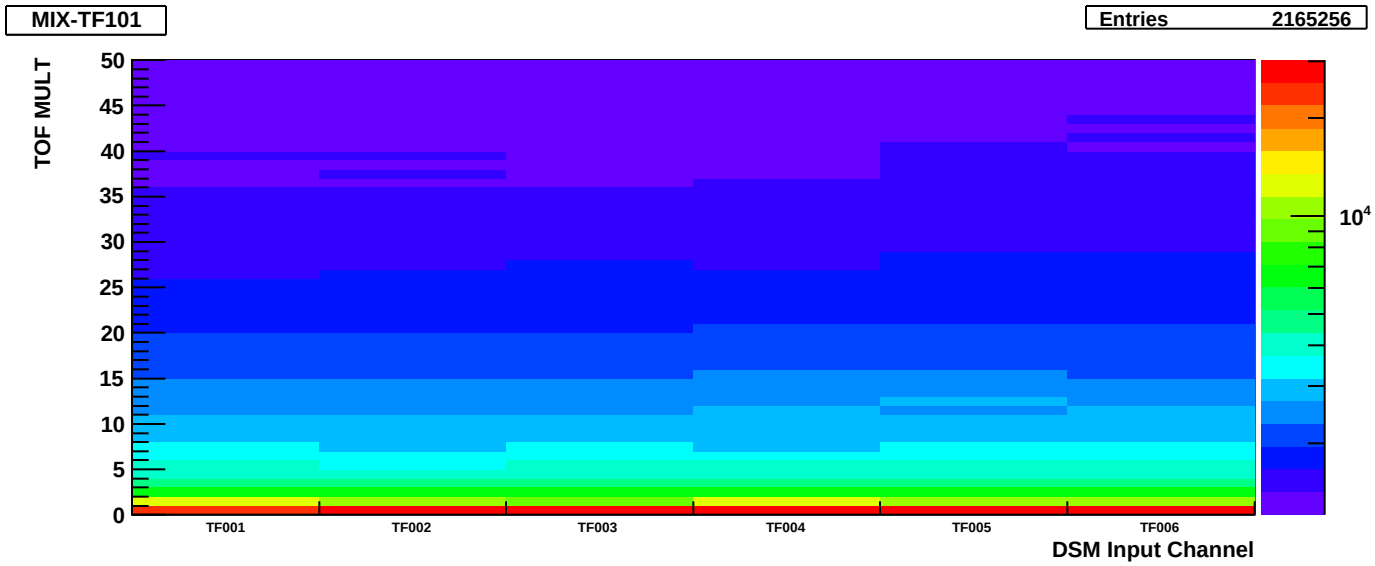

MIX-TF002
Entries 1.515679e+07
TOF MULT
TOF tray

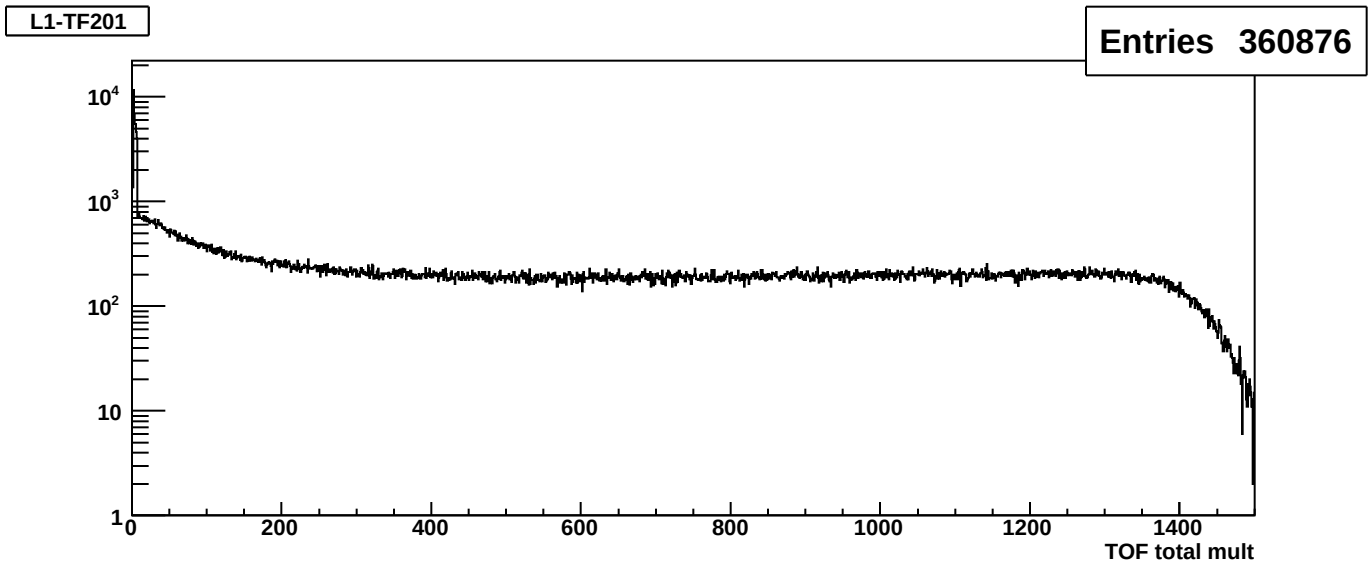

MIX-TF003
Entries 1.515679e+07
TOF MULT
TOF tray

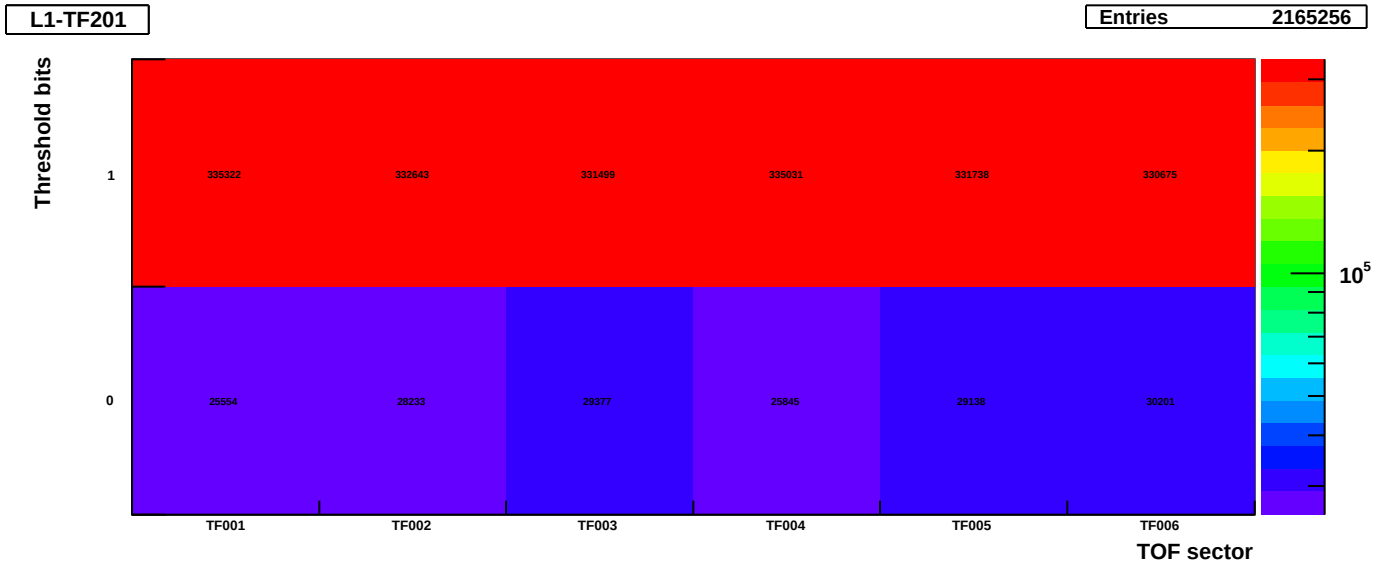

MIX-TF004
Entries 1.515679e+07
TOF MULT
TOF tray

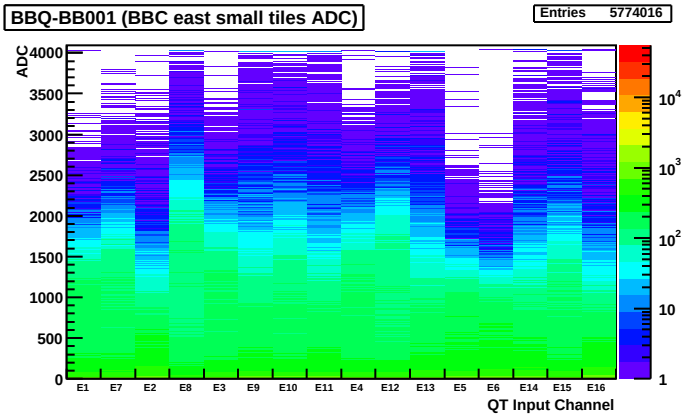

MIX-TF005
Entries 1.515679e+07
TOF MULT
TOF tray

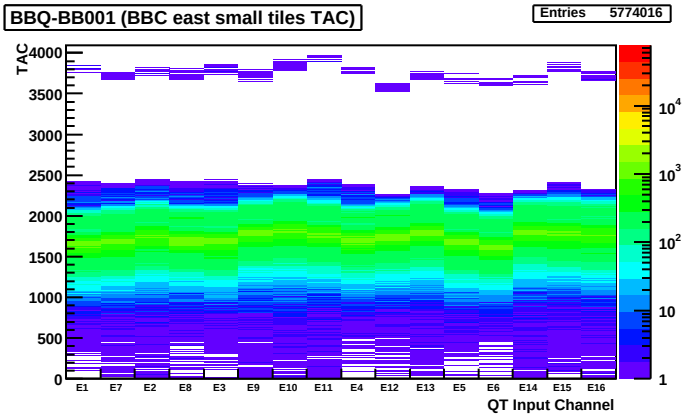

MIX-TF006
Entries 1.515679e+07
TOF MULT
TOF tray

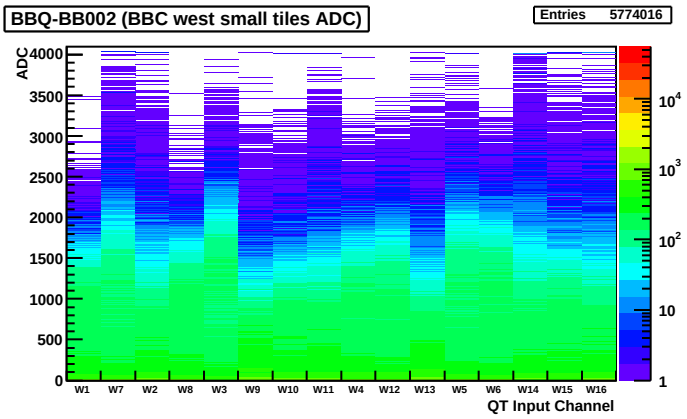

MIX-TF101
Entries 2165256
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

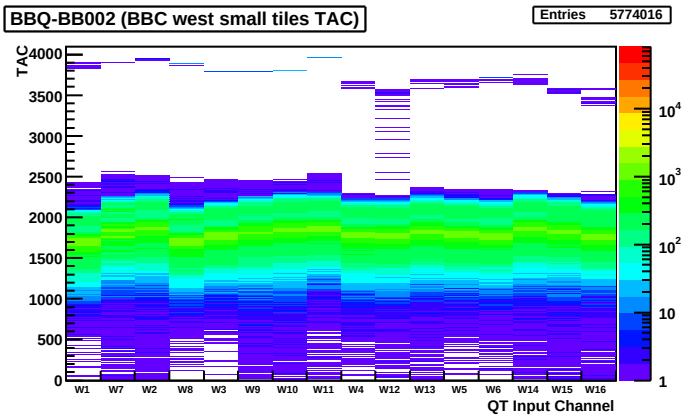

L1-TF201
Entries 360876
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

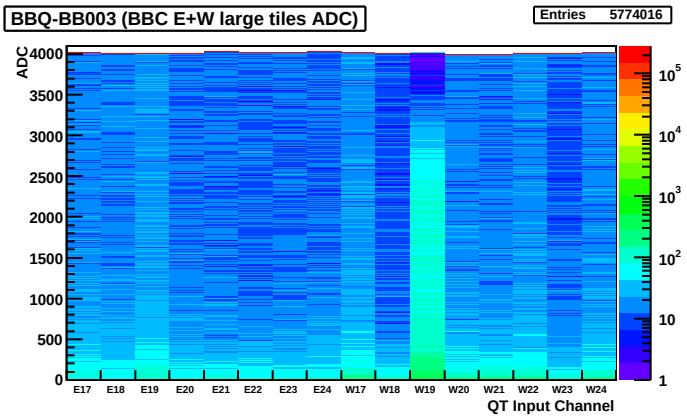

L1-TF201
Entries 2165256
Threshold bits
1
0
335322
332643
331499
335031
331738
330675
25554
28233
29377
25845
29138
30201
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

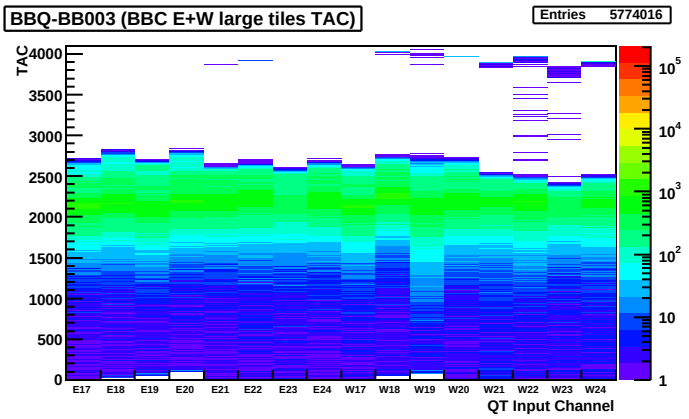

BBQ-BB001 (BBC east small tiles ADC)
Entries 5774016
ADC
QT Input Channel

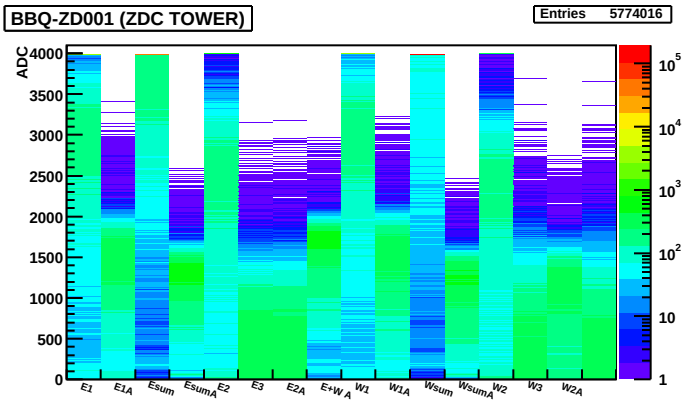

BBQ-BB001 (BBC east small tiles TAC)
Entries 5774016
TAC
QT Input Channel

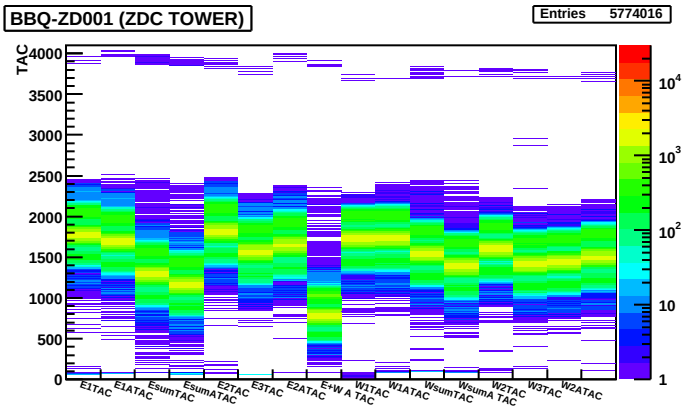

BBQ-BB002 (BBC west small tiles ADC)
Entries 5774016
ADC
QT Input Channel

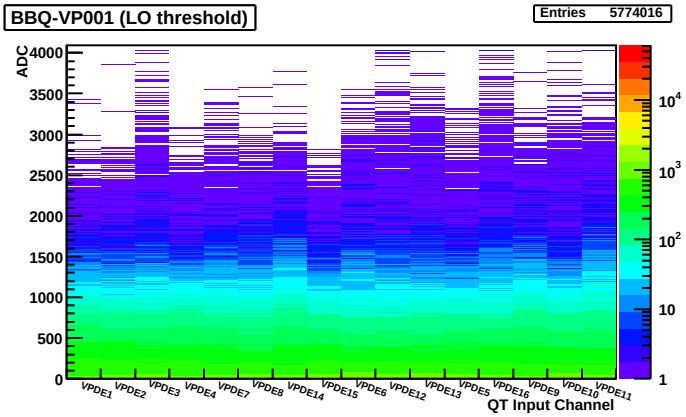

BBQ-BB002 (BBC west small tiles TAC)
Entries 5774016
TAC
QT Input Channel

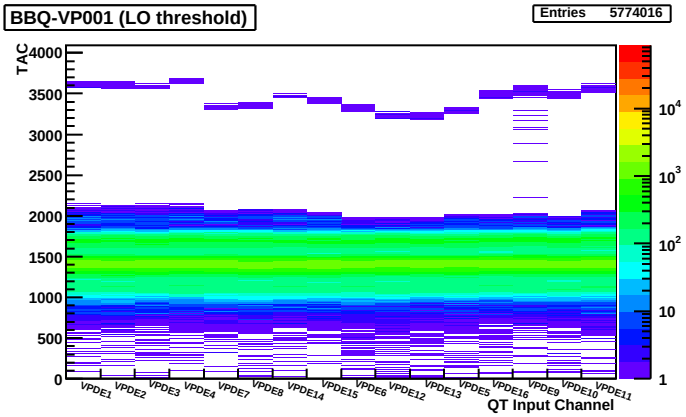

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5774016
ADC
QT Input Channel

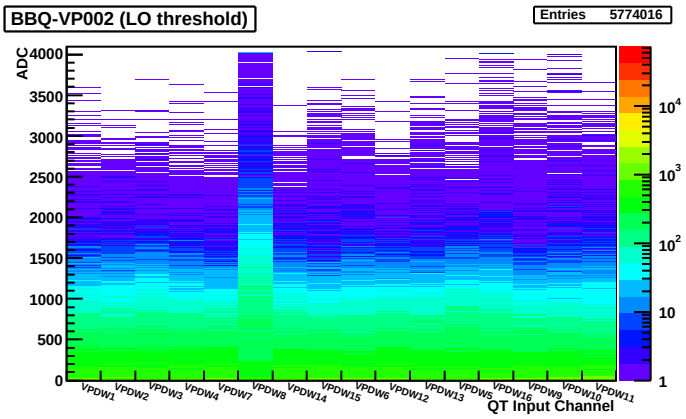

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5774016
TAC
QT Input Channel

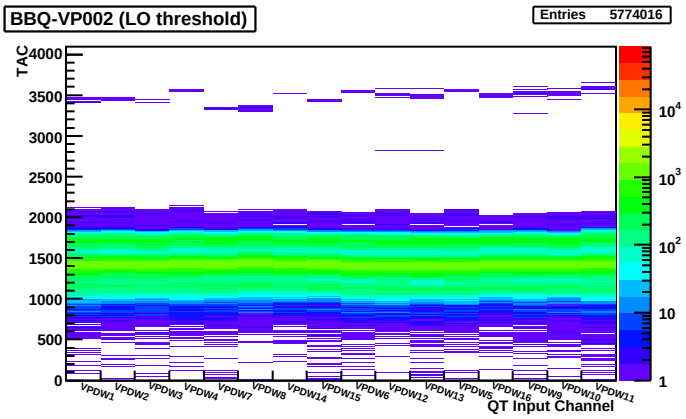

BBQ-ZD001 (ZDC TOWER)
Entries 5774016
ADC

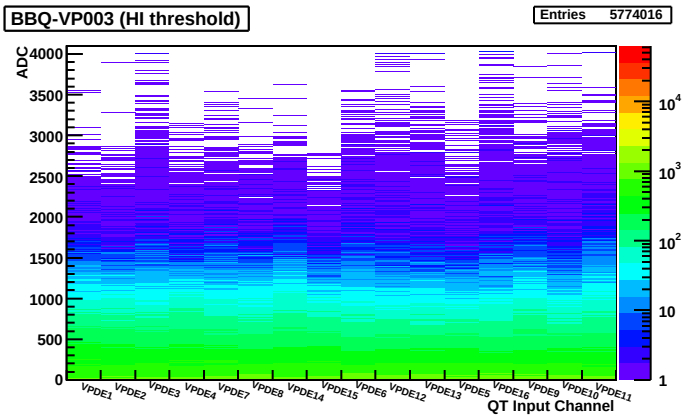

BBQ-ZD001 (ZDC TOWER)
Entries 5774016
TAC

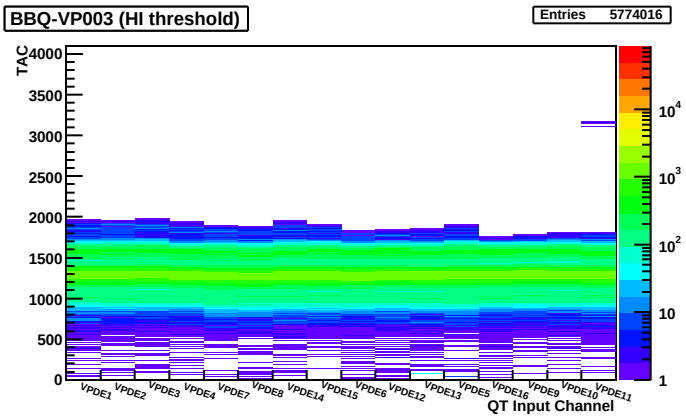

BBQ-VP001 (LO threshold)
Entries 5774016
ADC
QT Input Channel

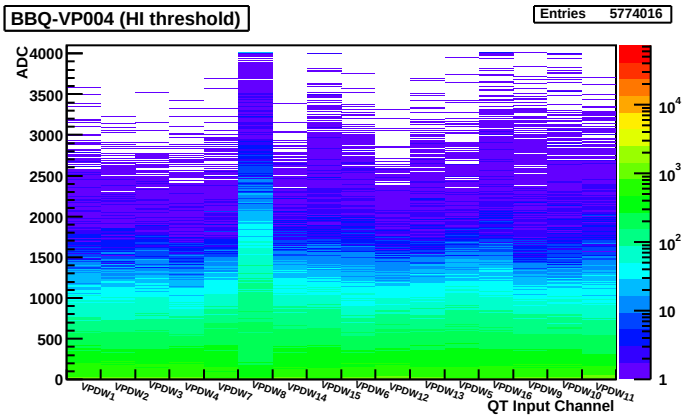

BBQ-VP001 (LO threshold)
Entries 5774016
TAC
QT Input Channel

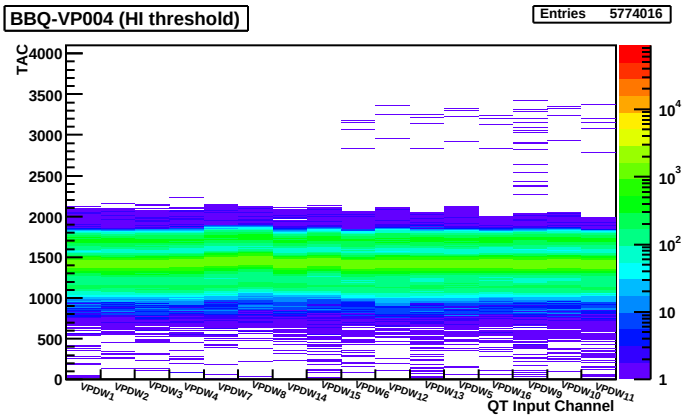

BBQ-VP002 (LO threshold)
Entries 5774016
ADC
QT Input Channel

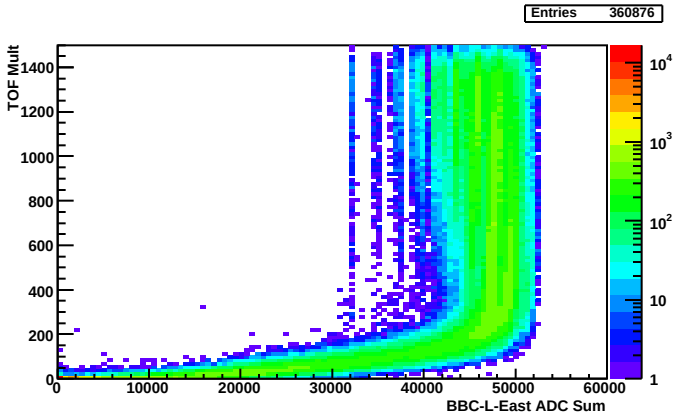

BBQ-VP002 (LO threshold)
Entries 5774016
TAC
QT Input Channel

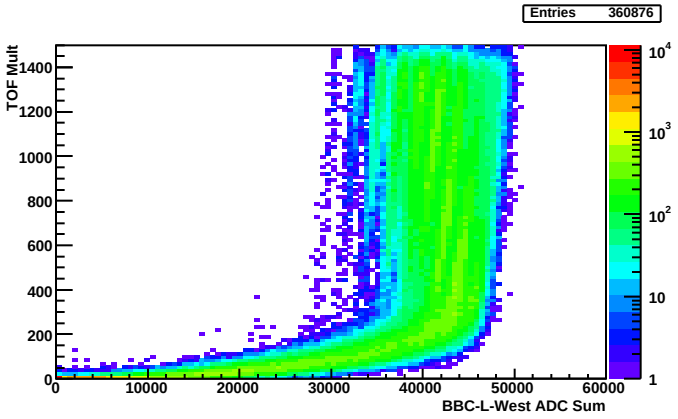

BBQ-VP003 (HI threshold)
Entries 5774016
ADC
QT Input Channel

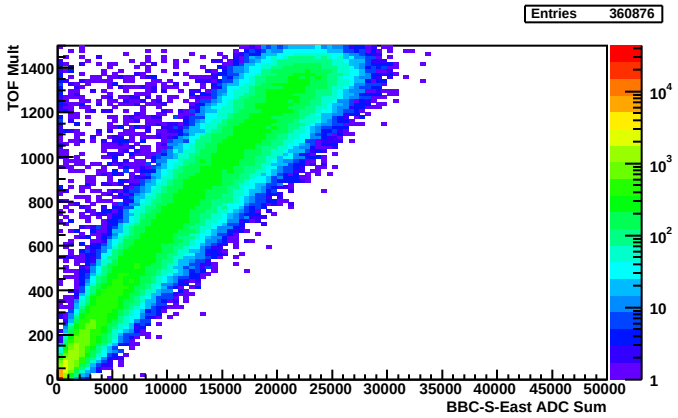

BBQ-VP003 (HI threshold)
Entries 5774016
TAC
QT Input Channel

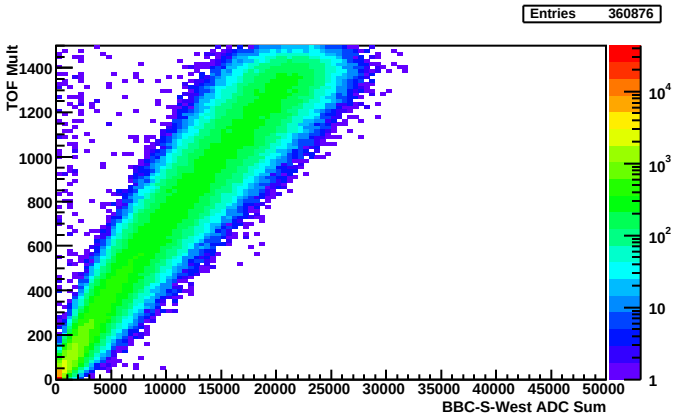

BBQ-VP004 (HI threshold)
Entries 5774016
ADC
QT Input Channel

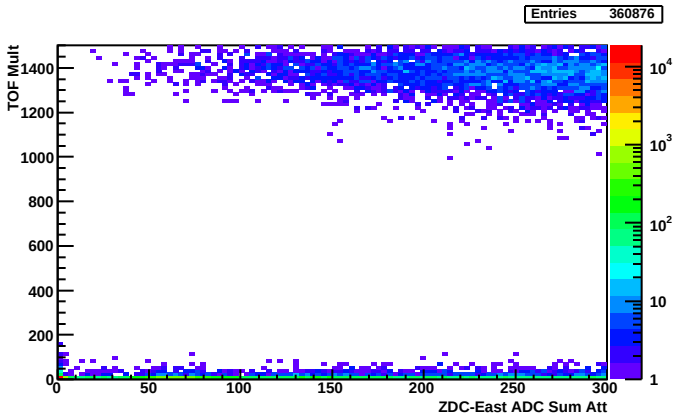

BBQ-VP004 (HI threshold)
Entries 5774016
TAC
QT Input Channel

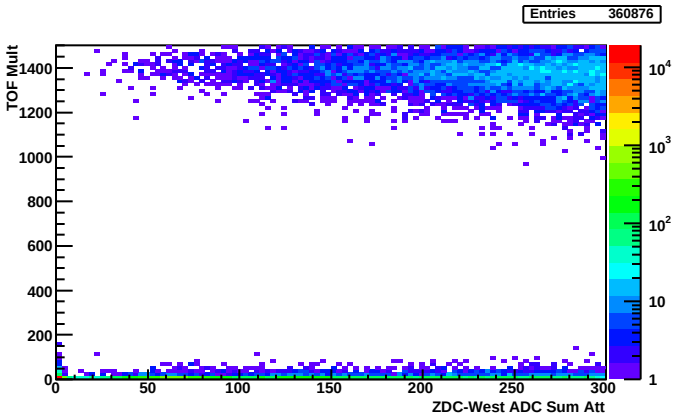

Entries 360876
TOF Mult
BBC-L-East ADC Sum

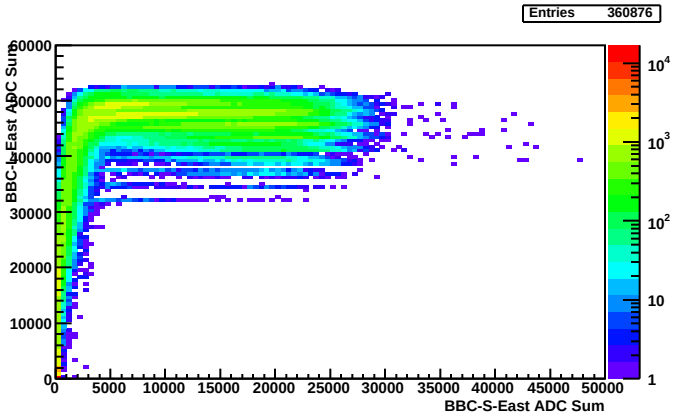

Entries 360876
TOF Mult
BBC-L-West ADC Sum

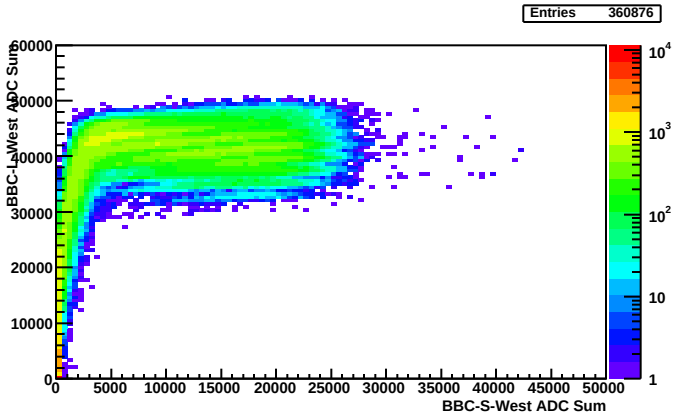

Entries 360876
TOF Mult
BBC-S-East ADC Sum

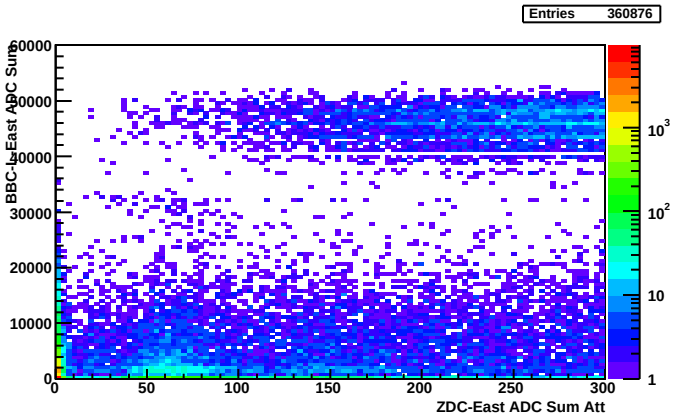

Entries 360876
TOF Mult
BBC-S-West ADC Sum

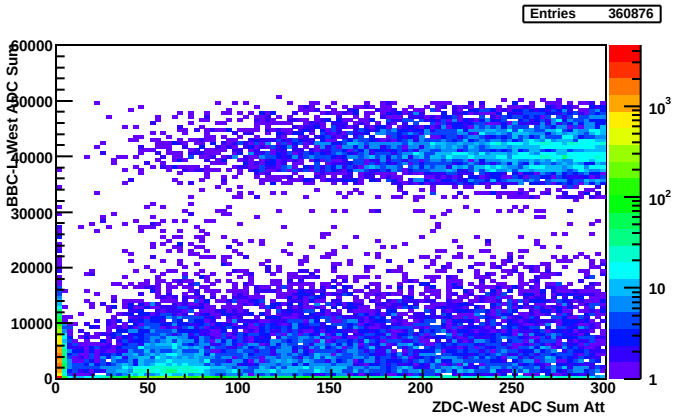

Entries 360876
TOF Mult
ZDC-East ADC Sum Att


Entries 360876
TOF Mult
ZDC-West ADC Sum Att


Entries 360876
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 360876
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 360876
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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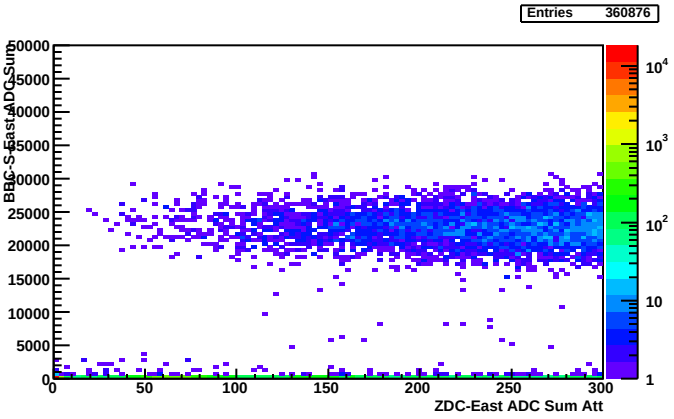
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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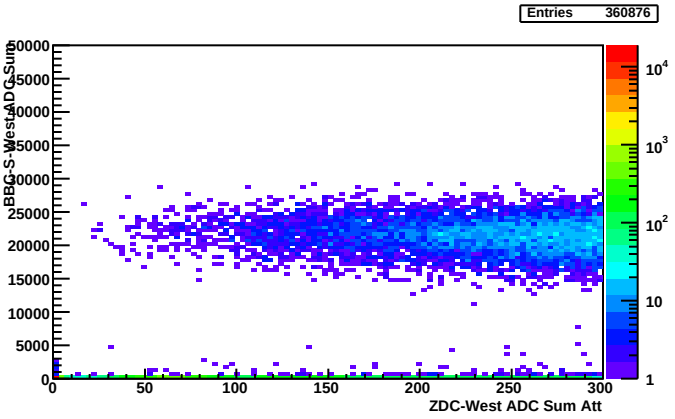
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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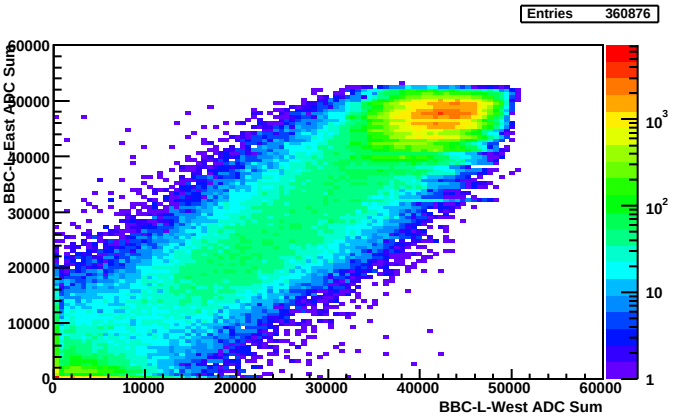
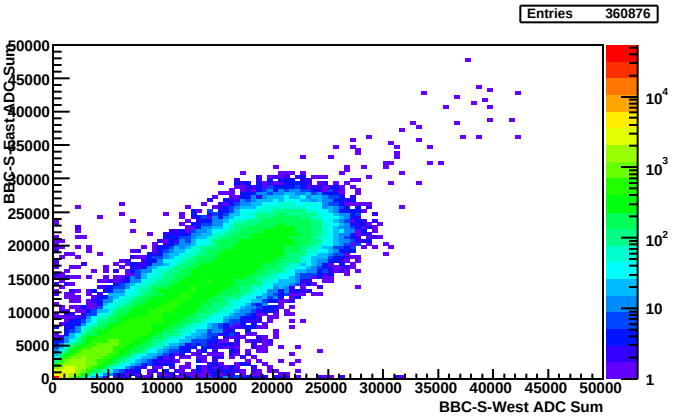
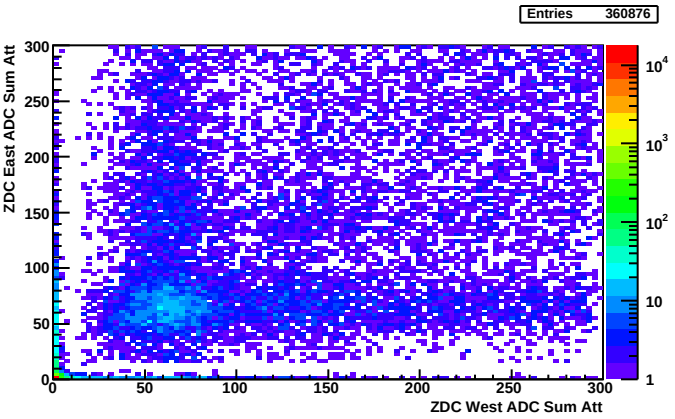
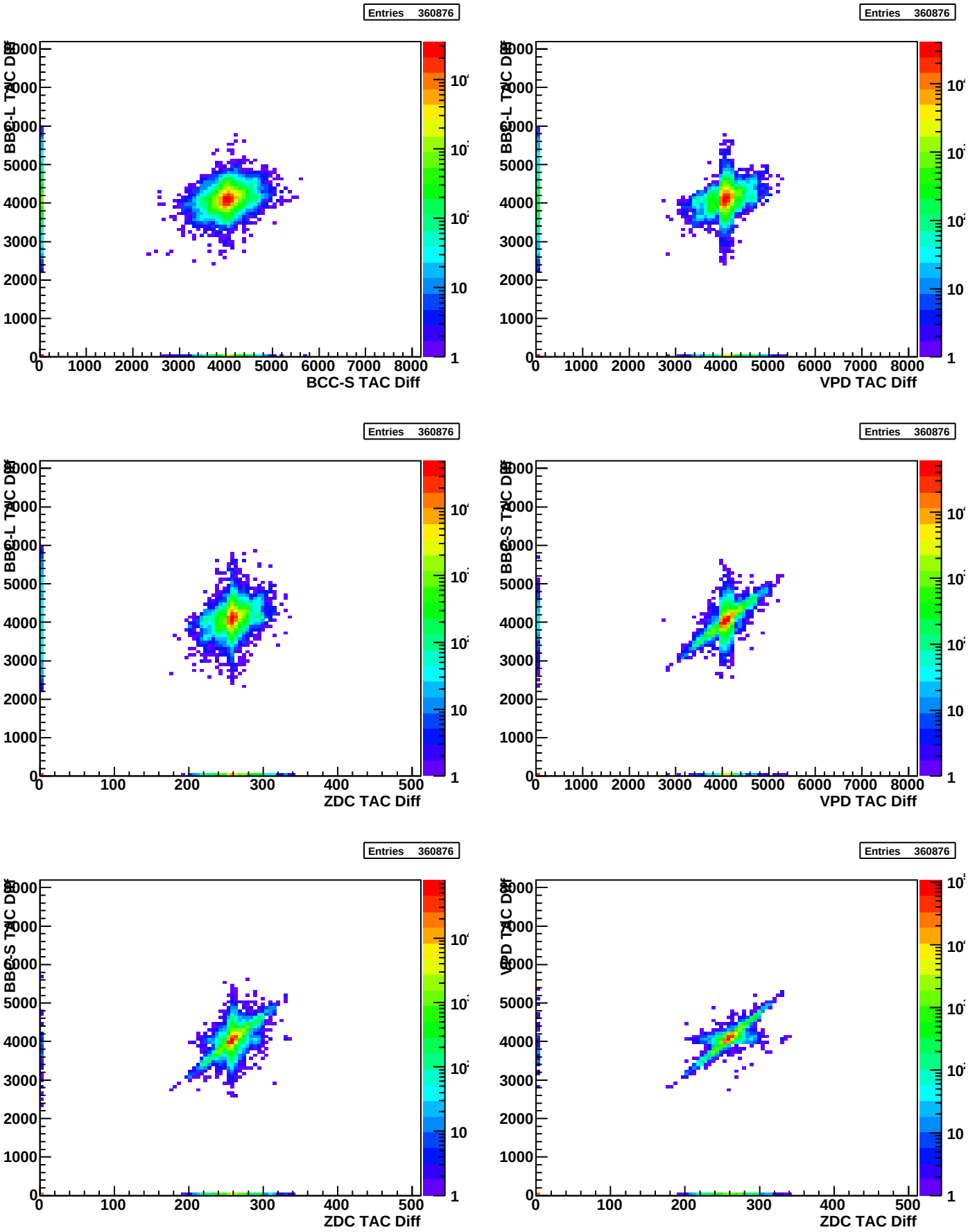
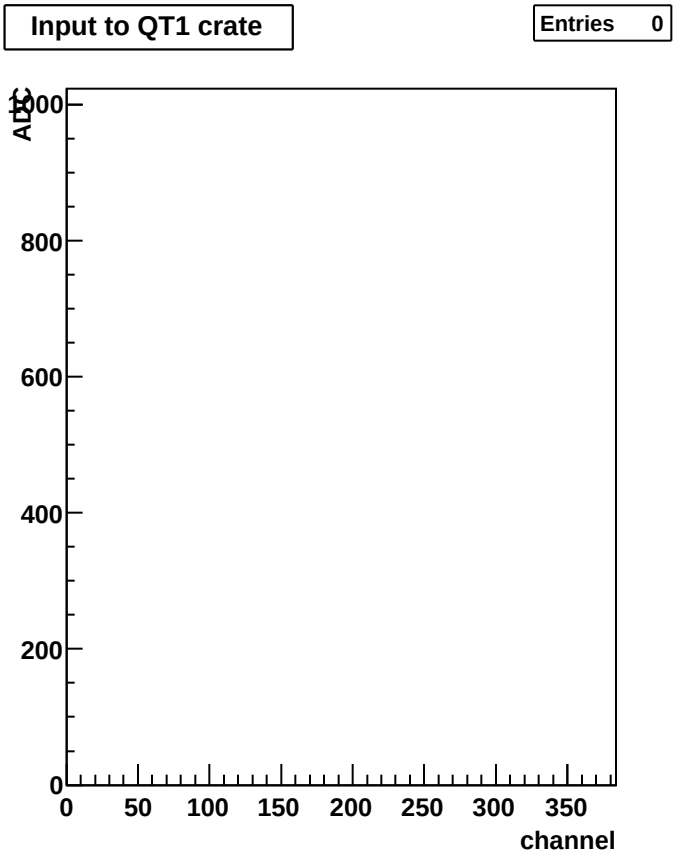
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

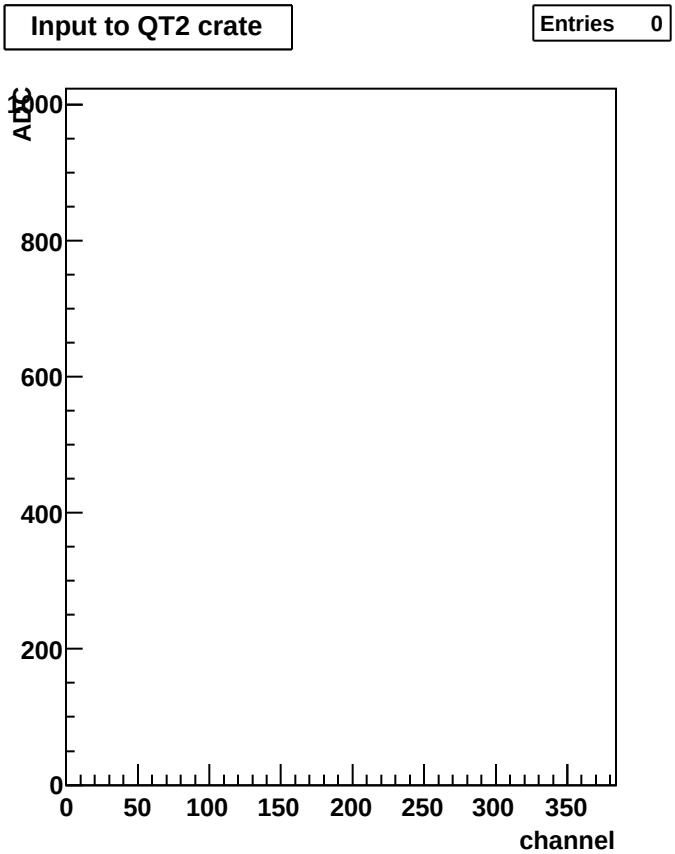

Entries 360876
BBC-L-East ADC Sum
BBC-L-West ADC Sum

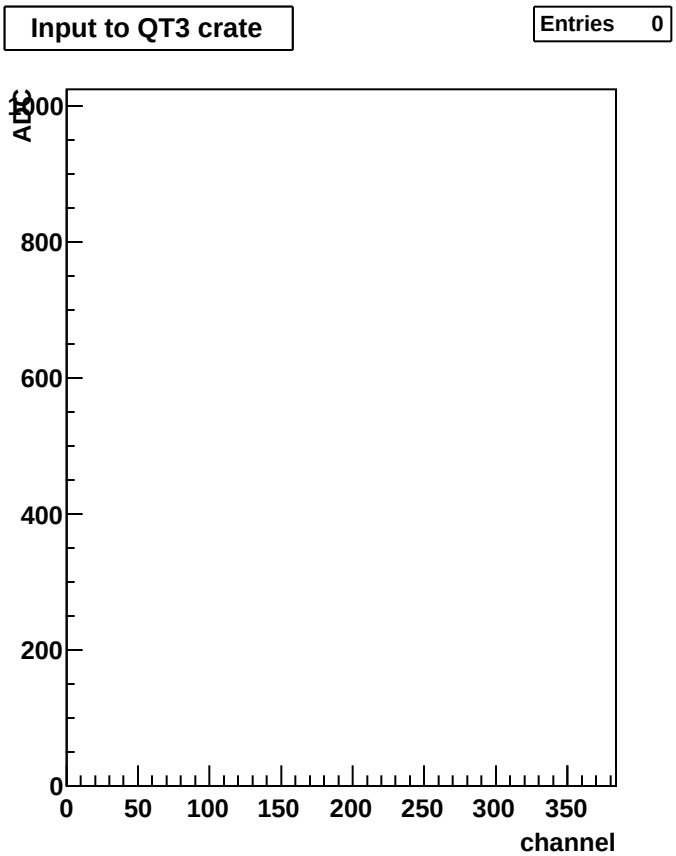

Entries 360876
BBC-S-East ADC Sum
BBC-S-West ADC Sum

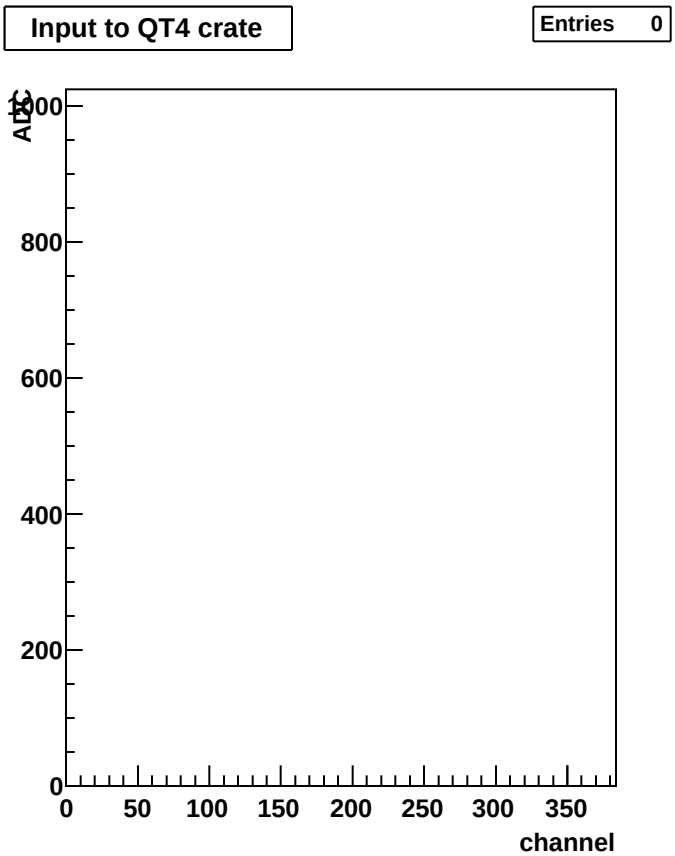

Entries 360876
ZDC East ADC Sum Att
ZDC West ADC Sum Att

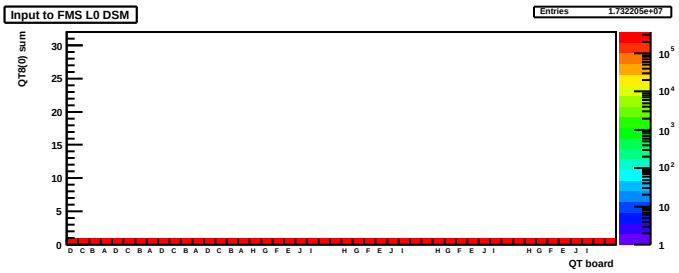

Entries 360876
BBC-L TAC Diff
BCC-S TAC Diff
Entries 360876
BBC-L TAC Diff
VPD TAC Diff
Entries 360876
BBC-L TAC Diff
ZDC TAC Diff
Entries 360876
BBC-S TAC Diff
VPD TAC Diff
Entries 360876
BBC-S TAC Diff
ZDC TAC Diff
Entries 360876
VPD TAC Diff
ZDC TAC Diff

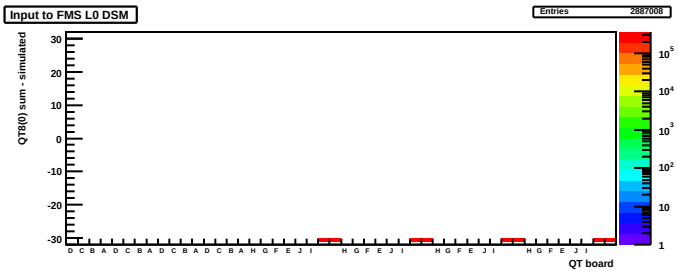

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

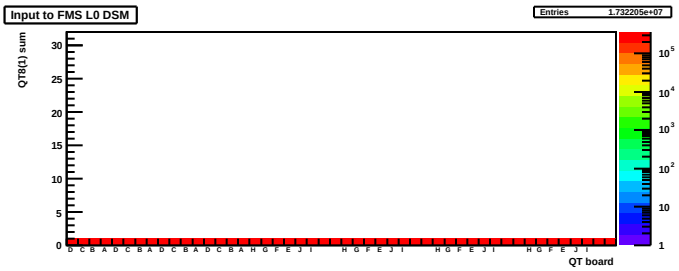

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

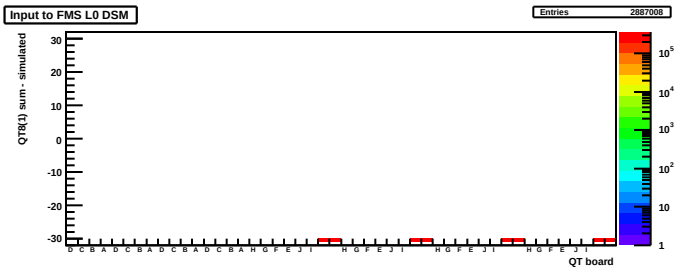

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

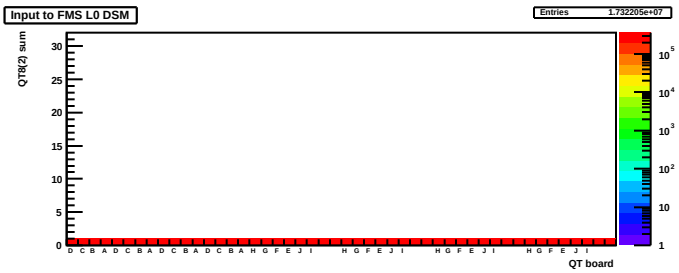

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

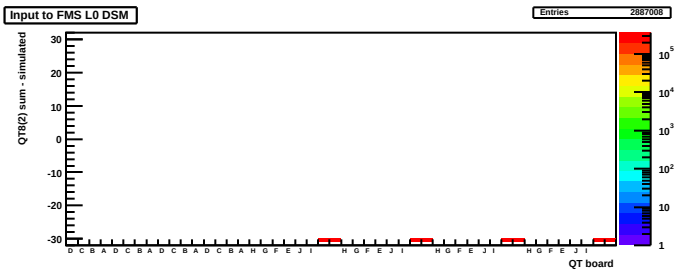

Input to FMS L0 DSM
Entries 1.732205e+07
QT8(0) sum
QT board

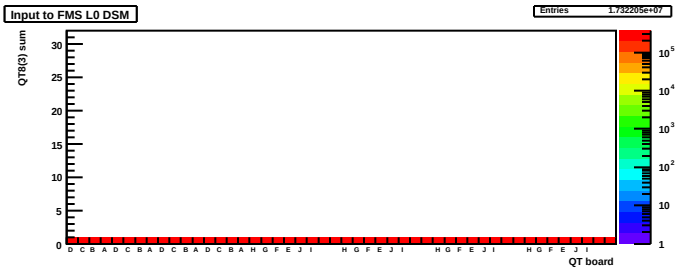

Input to FMS L0 DSM
Entries 2887008
QT8(0) sum - simulated
QT board

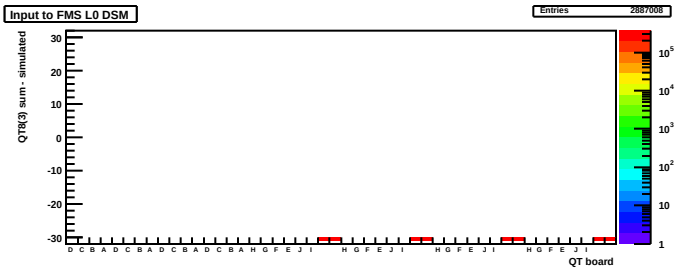

Input to FMS L0 DSM
Entries 1.732205e+07
QT8(1) sum
QT board

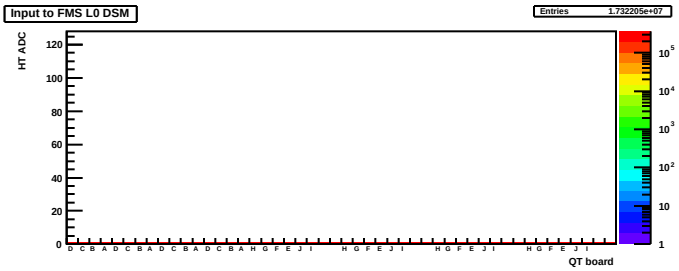

Input to FMS L0 DSM
Entries 2887008
QT8(1) sum - simulated
QT board

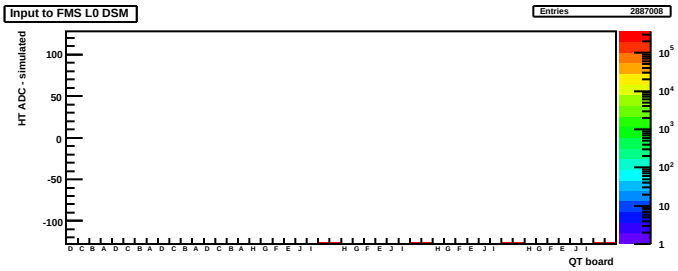

Input to FMS L0 DSM
Entries 1.732205e+07
QT8(2) sum
QT board

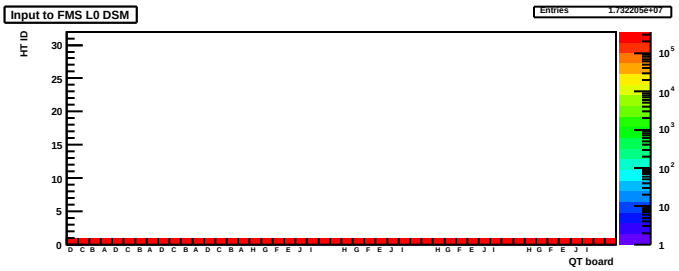

Input to FMS L0 DSM
Entries 2887008
QT8(2) sum - simulated
QT board

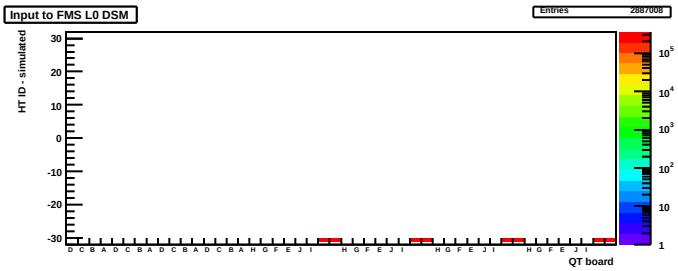

Input to FMS L0 DSM
Entries 1.732205e+07
QT8(3) sum
QT board

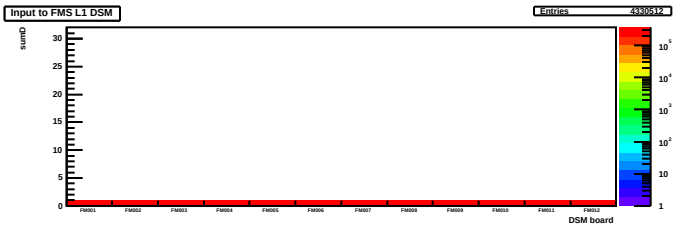

Input to FMS L0 DSM
Entries 2887008
QT8(3) sum - simulated
QT board

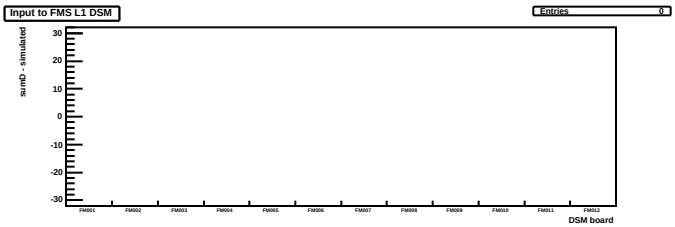

Input to FMS L0 DSM
Entries 1.732205e+07
HT ADC
QT board

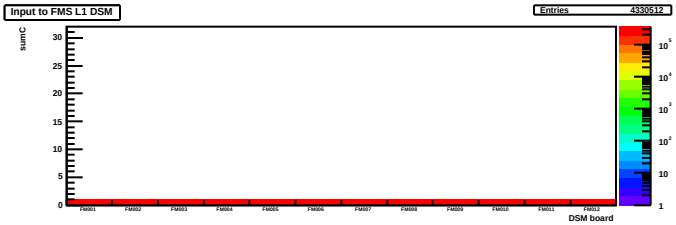

Input to FMS L0 DSM
Entries 2887008
HT ADC - simulated
QT board

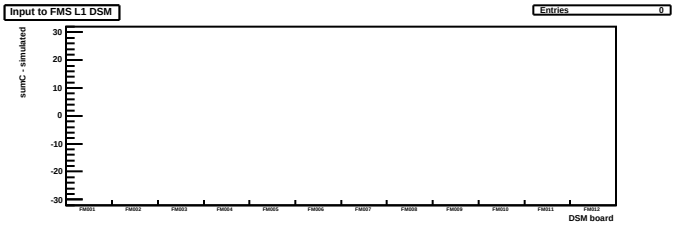

Input to FMS L0 DSM
Entries 1.732205e+07
HT ID
QT board

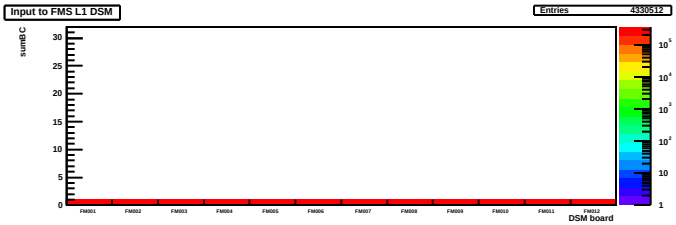

Input to FMS L0 DSM
Entries 2887008
HT ID - simulated
QT board

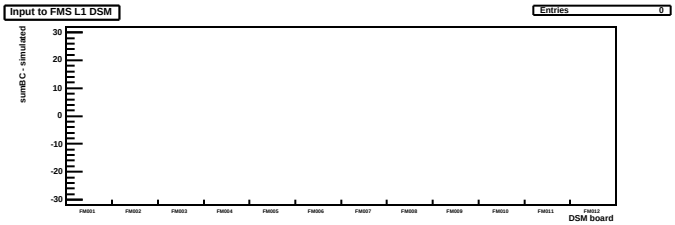

Input to FMS L1 DSM
Entries 4330512
sumD
DSM board

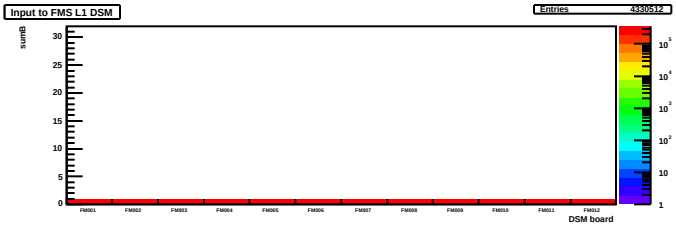

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

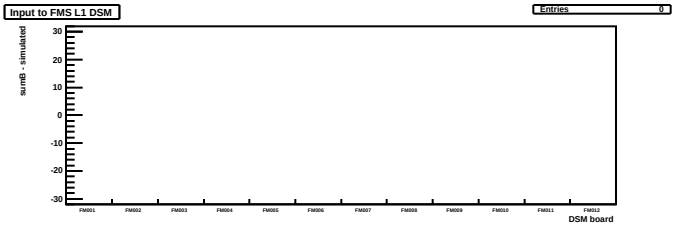

Input to FMS L1 DSM
Entries 4330512
sumC
DSM board

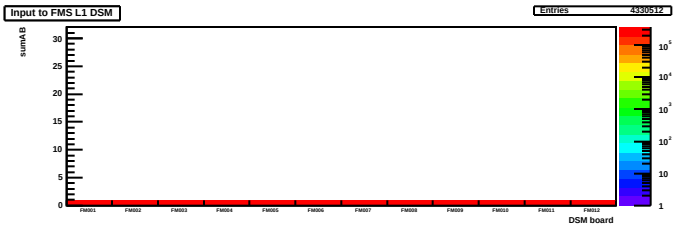

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

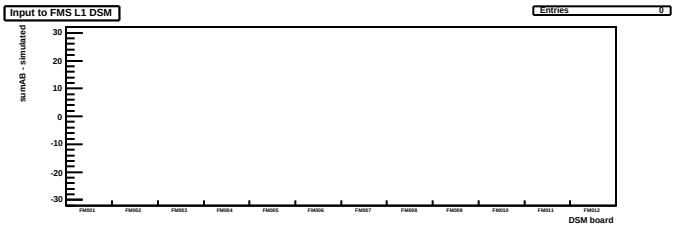

Input to FMS L1 DSM
Entries 4330512
sumBC
DSM board

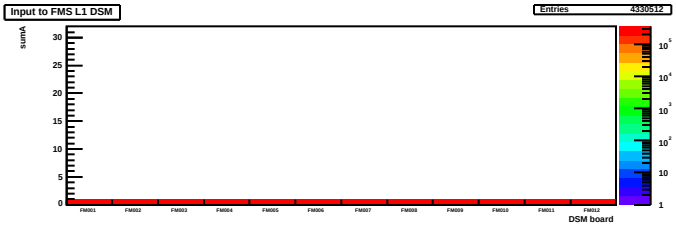

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

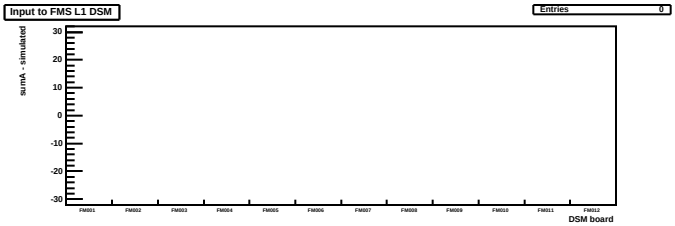

Input to FMS L1 DSM
Entries 4330512
sumB
DSM board

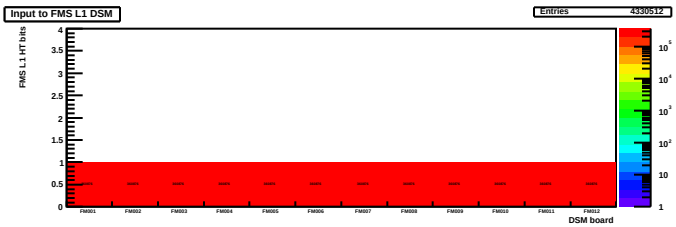

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

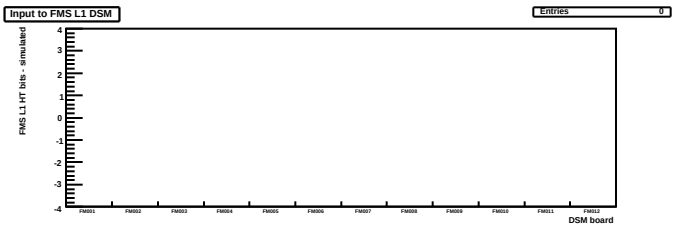

Input to FMS L1 DSM
Entries 4330512
sumAB
DSM board

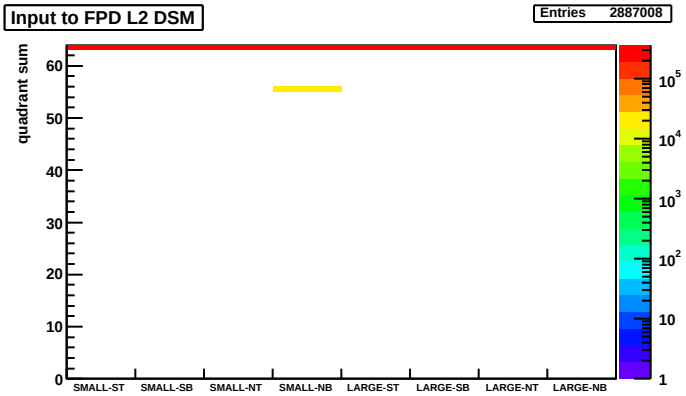

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

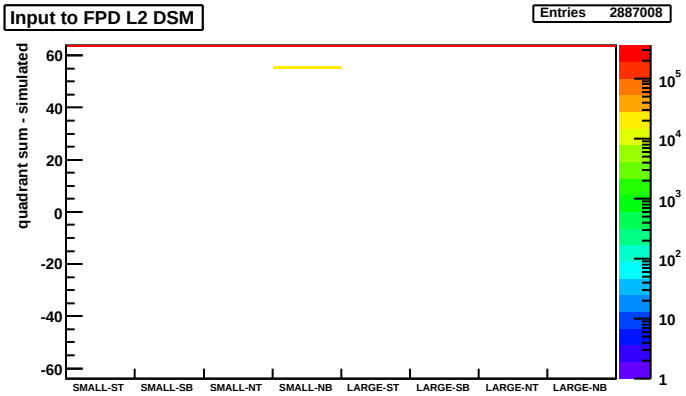

Input to FMS L1 DSM
Entries 4330512
sumA
DSM board

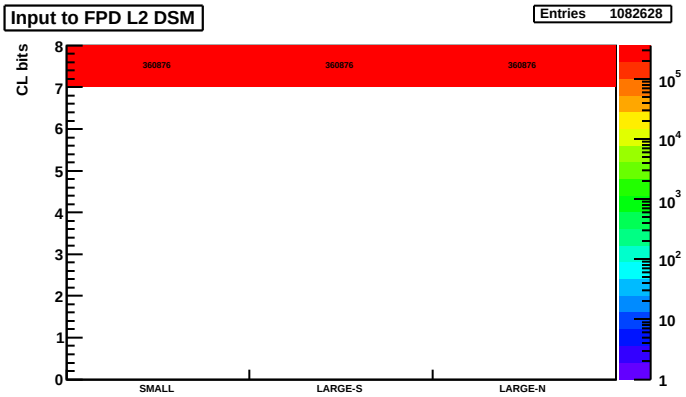

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

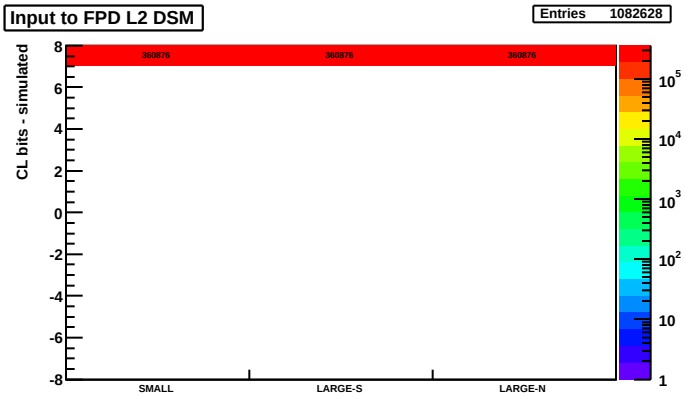

Input to FMS L1 DSM
Entries 4330512
FMS L1 HT bits
DSM board

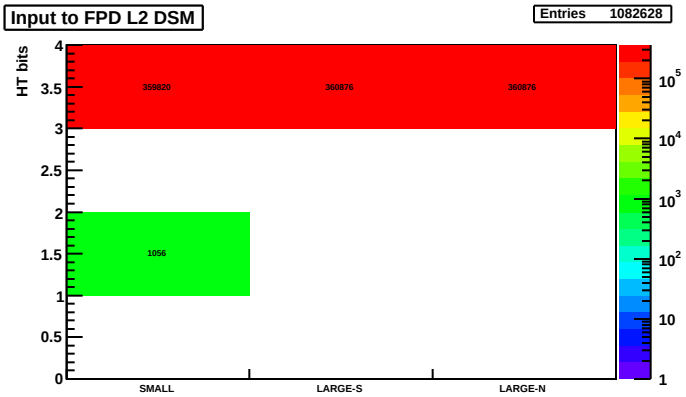

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

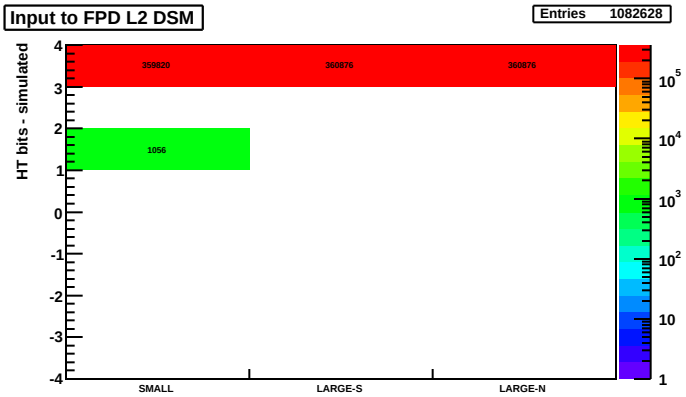

Input to FPD L2 DSM
Entries 2887008
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

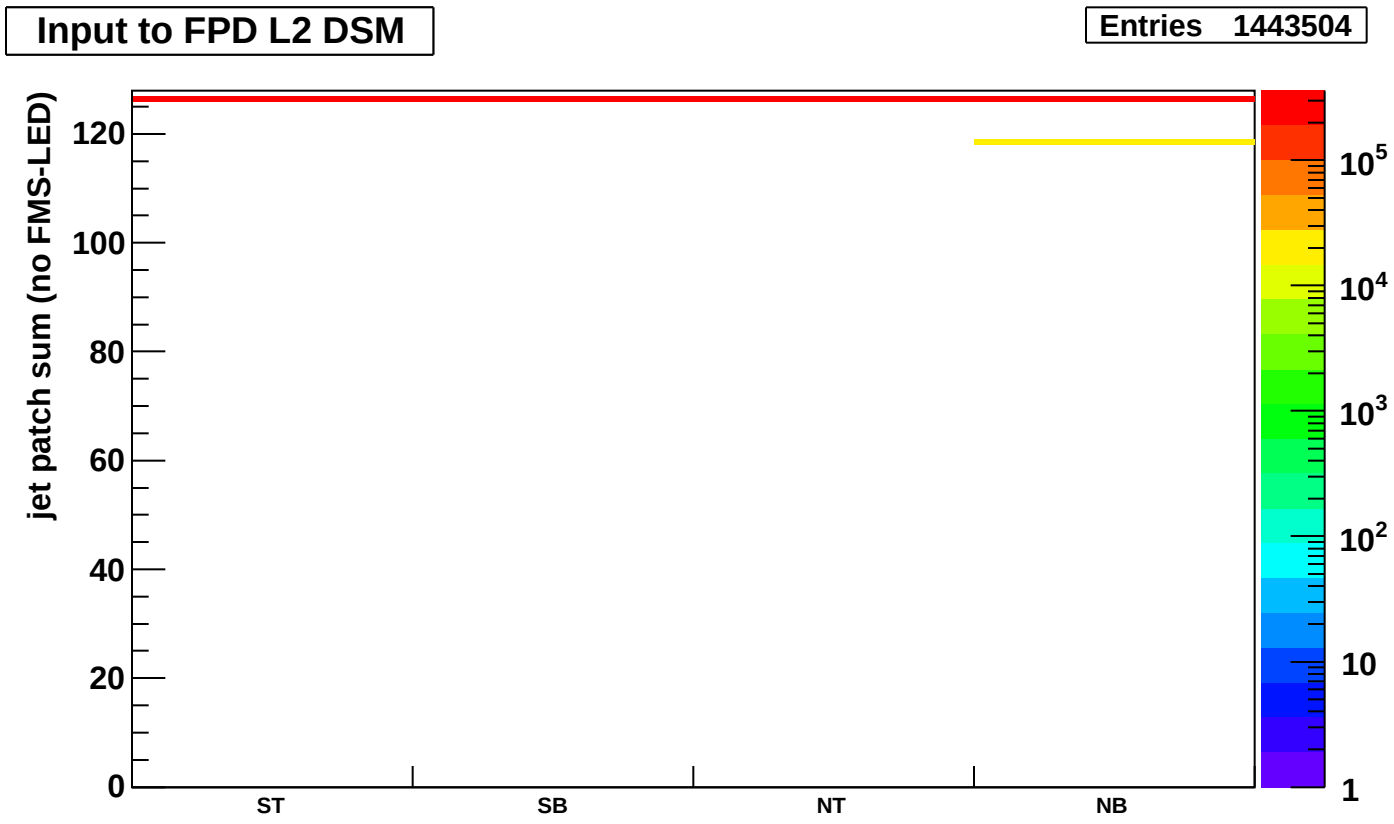

Input to FPD L2 DSM
Entries 2887008
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

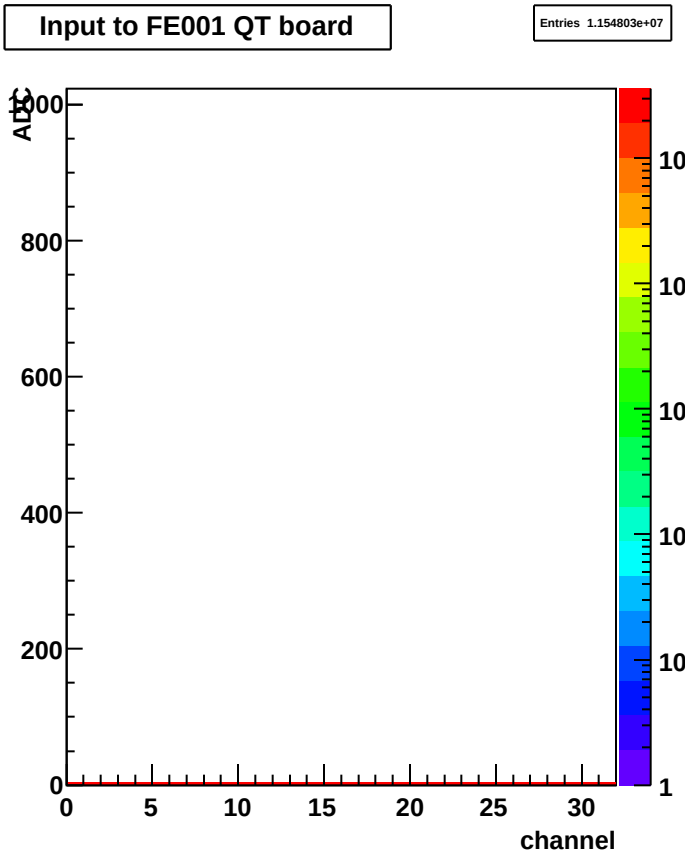

Input to FPD L2 DSM
Entries 1082628
CL bits
360876
360876
360876
SMALL
LARGE-S
LARGE-N

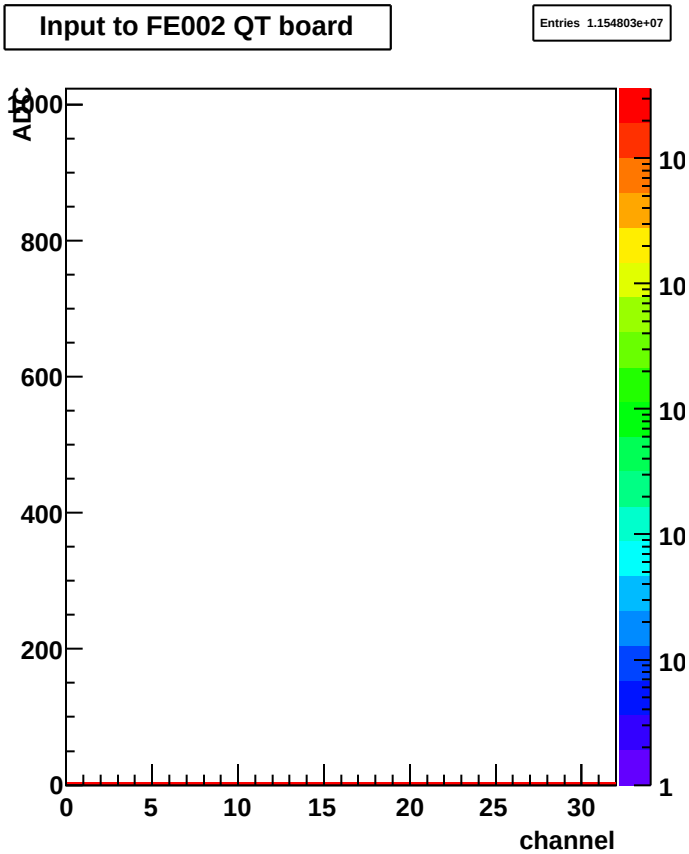

Input to FPD L2 DSM
Entries 1082628
CL bits - simulated
360876
360876
360876
SMALL
LARGE-S
LARGE-N

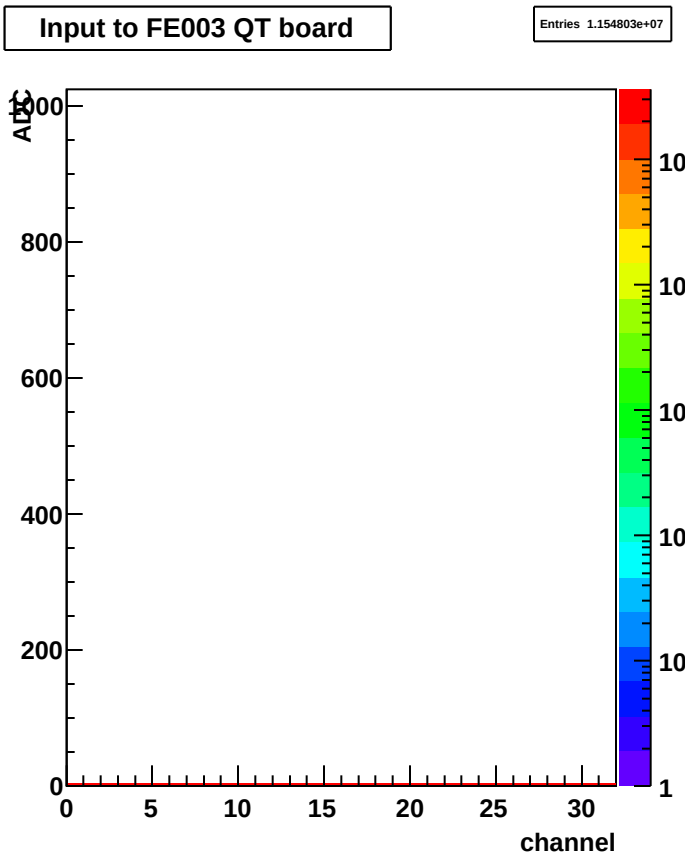

Input to FPD L2 DSM
Entries 1082628
HT bits
359820
360876
360876
1056
SMALL
LARGE-S
LARGE-N

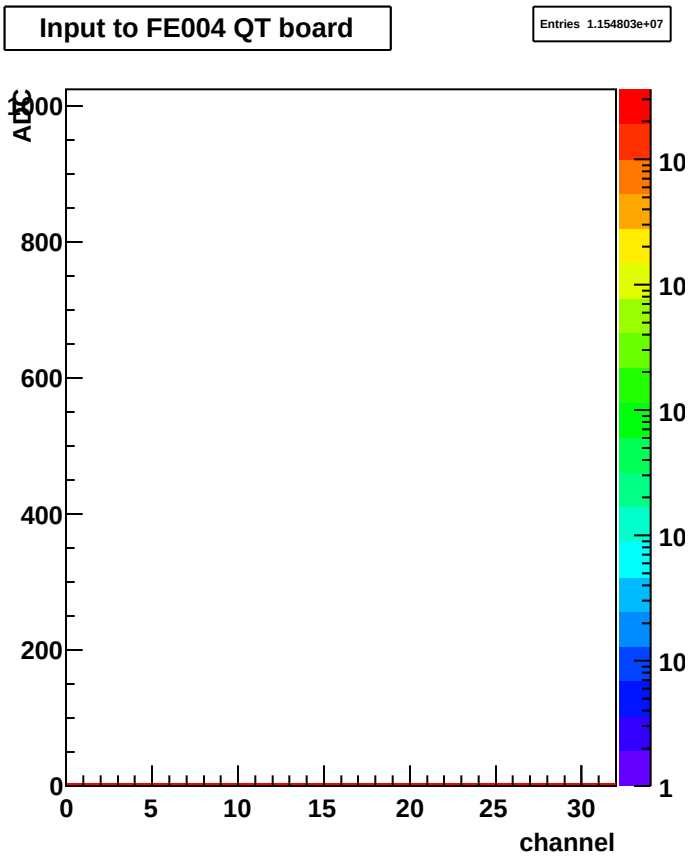

Input to FPD L2 DSM
Entries 1082628
HT bits - simulated
359820
360876
360876
1056
SMALL
LARGE-S
LARGE-N

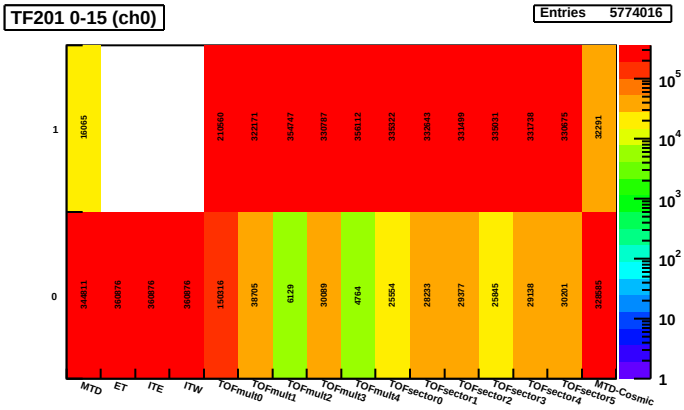

Input to FPD L2 DSM
Entries 1443504
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

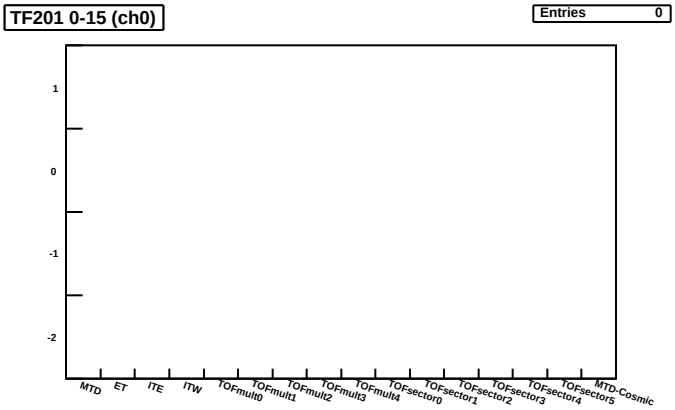

Input to FE001 QT board
Entries 1.154803e+07
ADC
channel

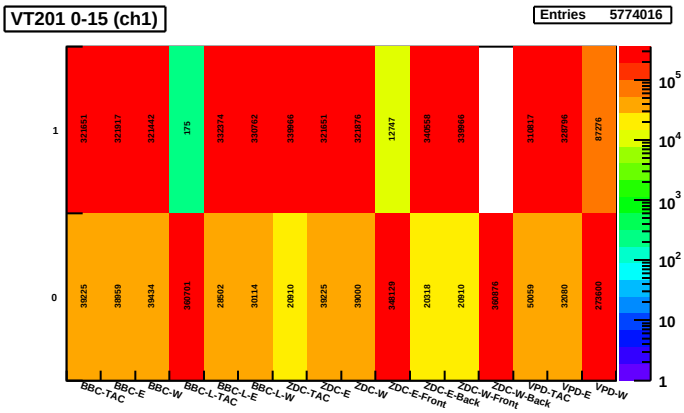

Input to FE002 QT board
Entries 1.154803e+07
ADC
channel

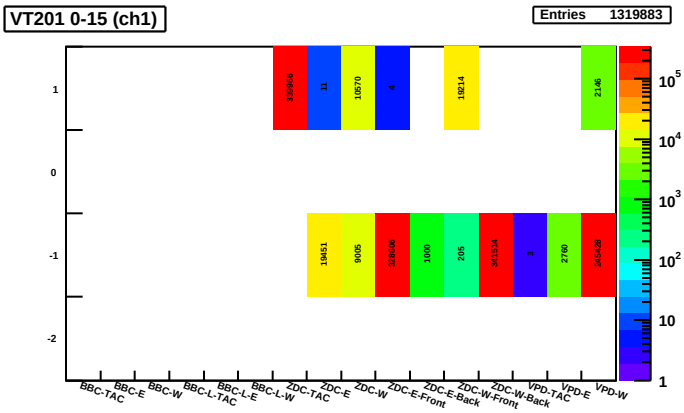

Input to FE003 QT board
Entries 1.154803e+07
ADC
channel

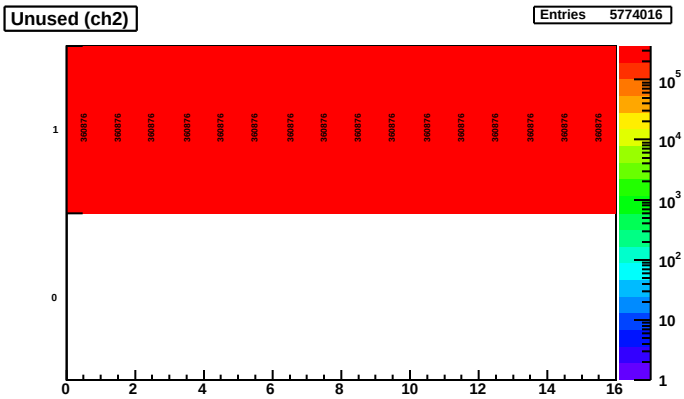

Input to FE004 QT board
Entries 1.154803e+07
ADC
channel

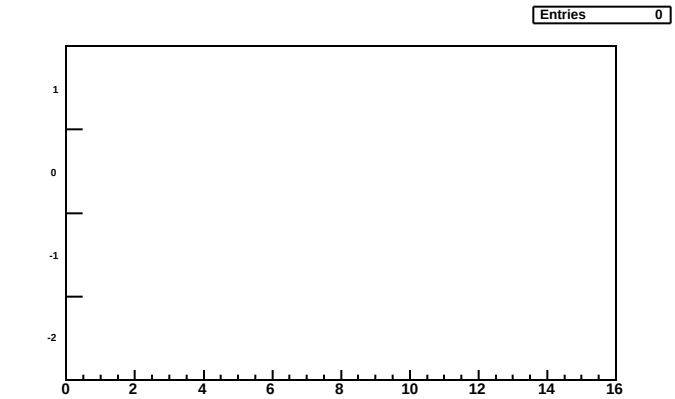

TF201 0-15 (ch0)
Entries 5774016
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

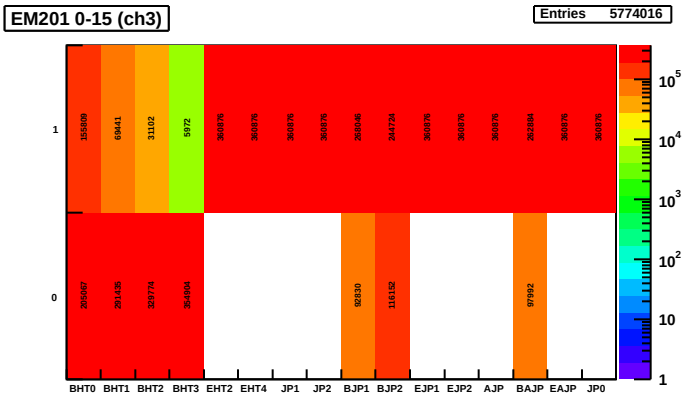

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

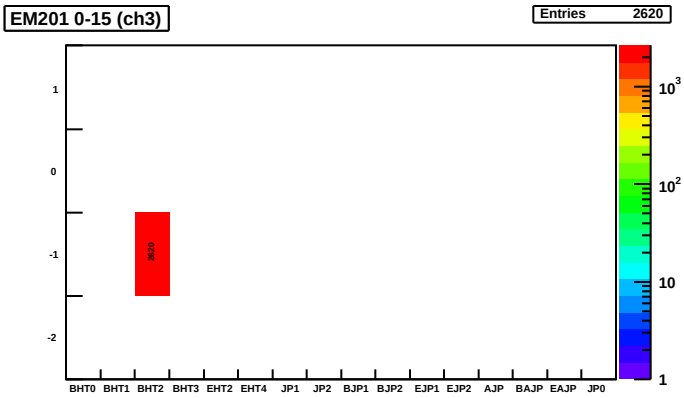

VT201 0-15 (ch1)
Entries 5774016
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1319883
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

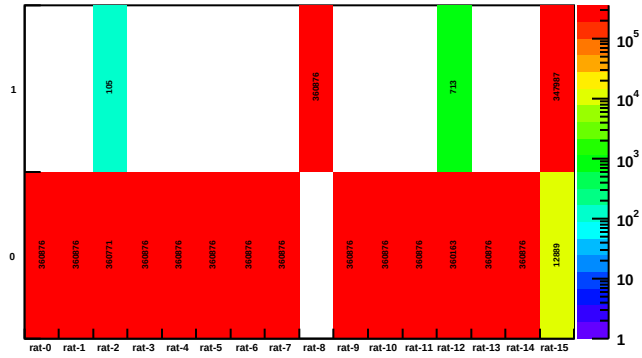

Unused (ch2)
Entries 5774016

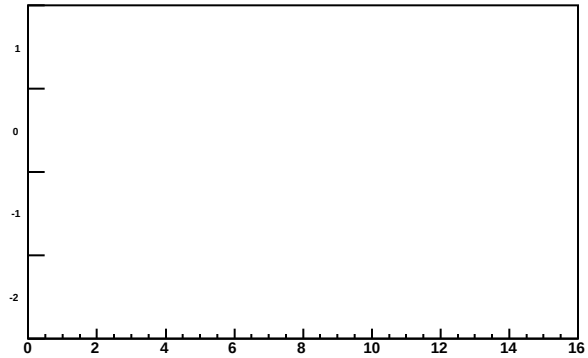

Entries 0


EM201 0-15 (ch3)
Entries 5774016
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

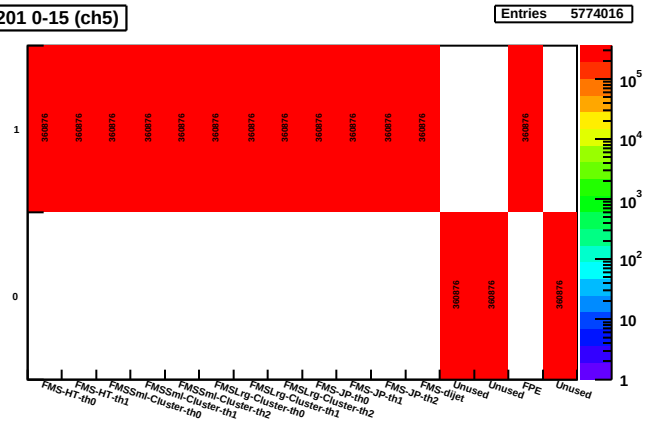

EM201 0-15 (ch3)
Entries 2620
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

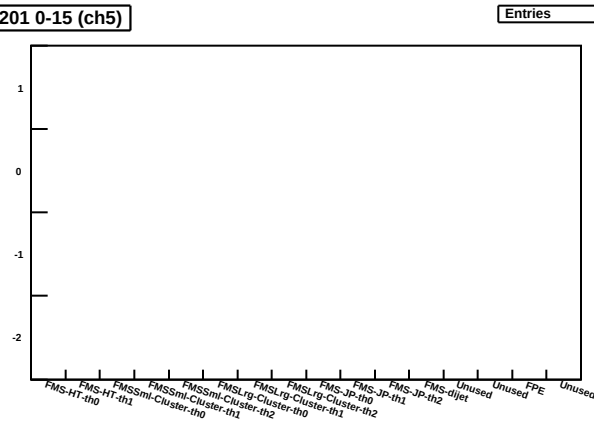
RAT board (ch4)



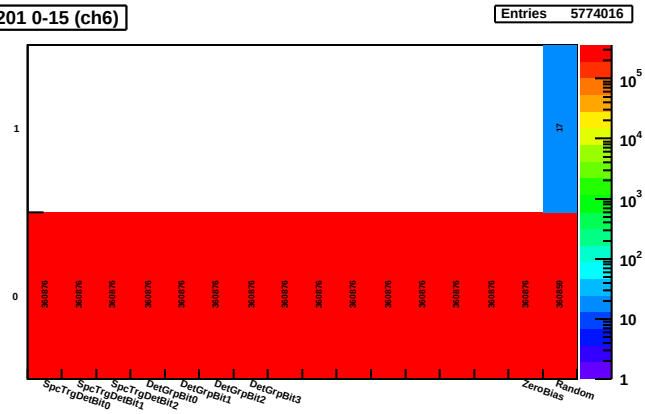


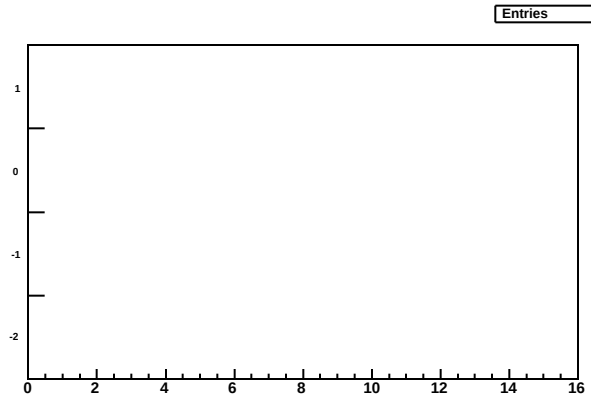
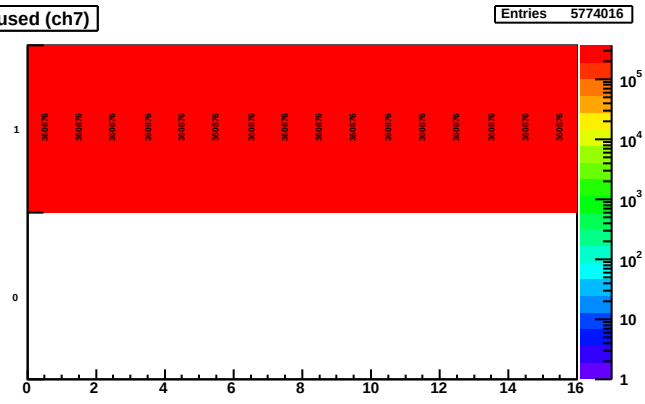
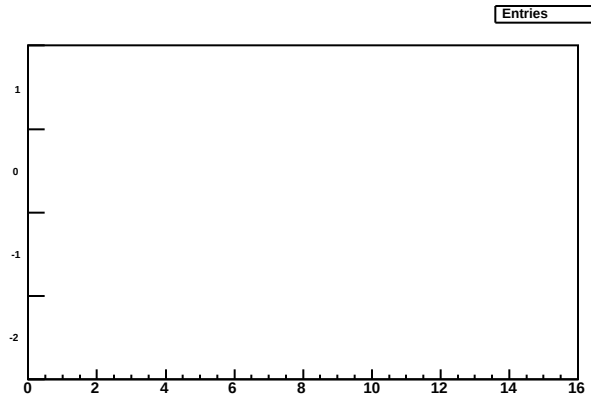
FP201 0-15 (ch5)





ST201 0-15 (ch6)





Unused (ch7)