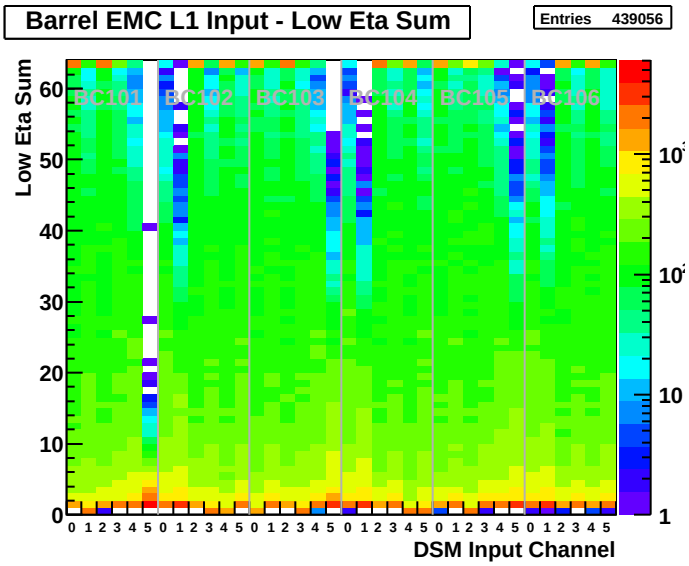
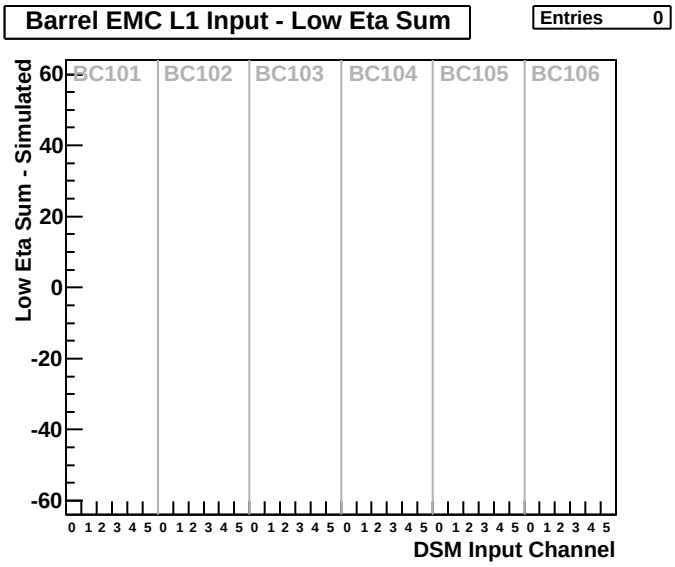
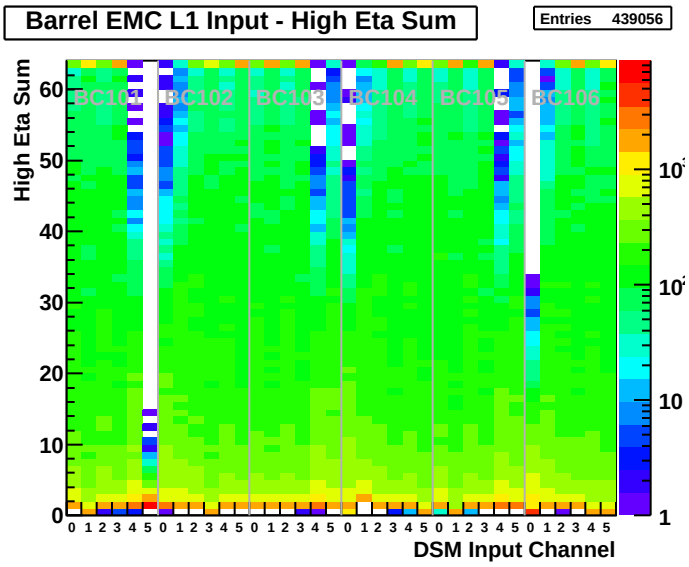
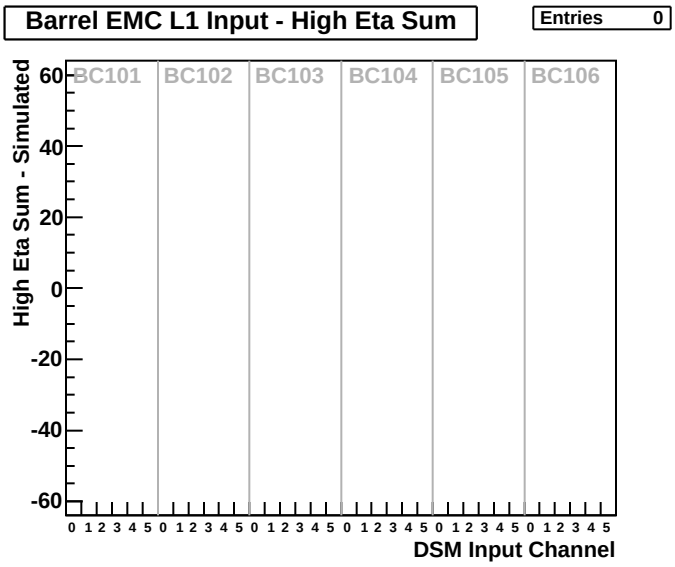
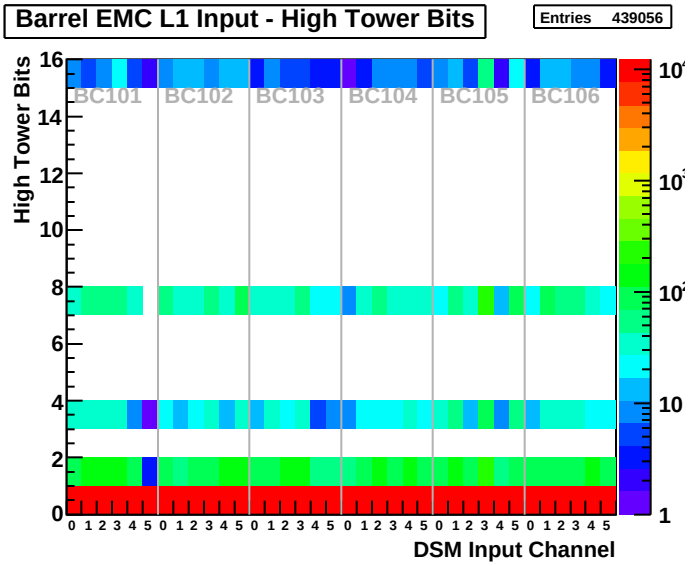
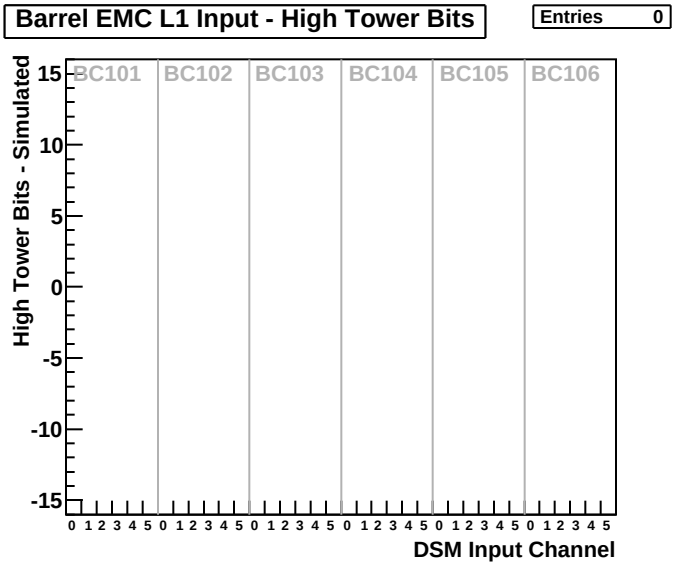

Barrel EMC L1 Input - Low Eta Sum
Entries 439056
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

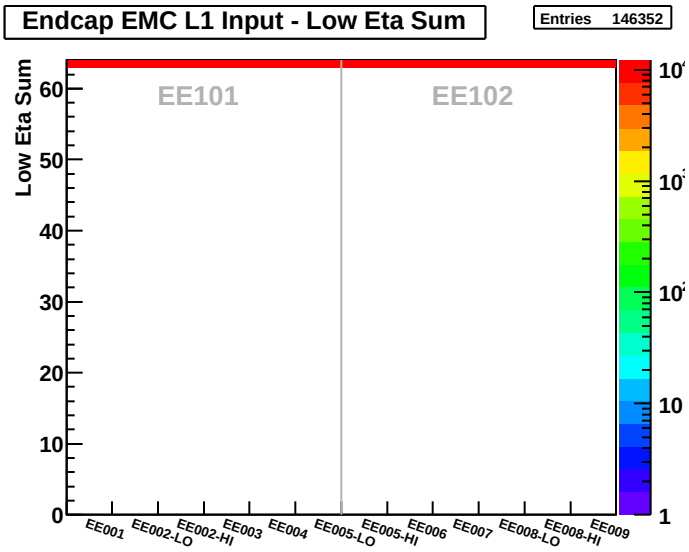

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

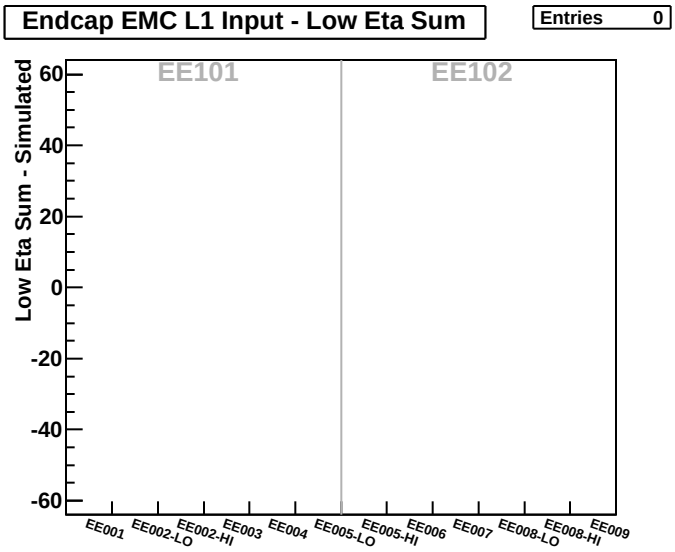

Barrel EMC L1 Input - High Eta Sum
Entries 439056
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

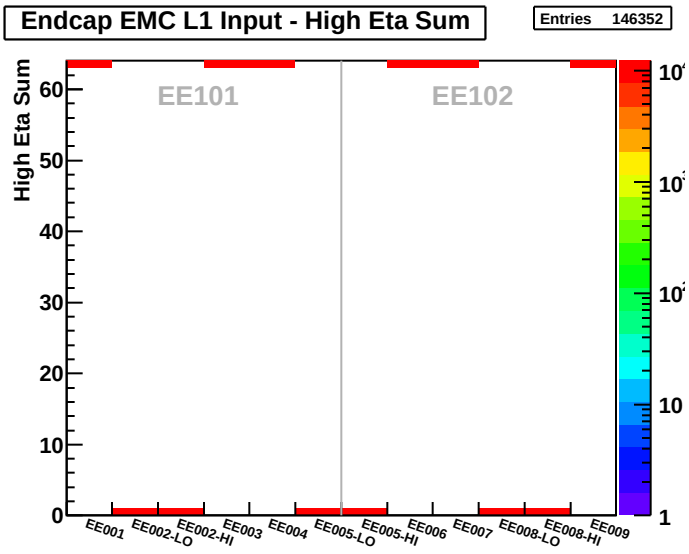

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

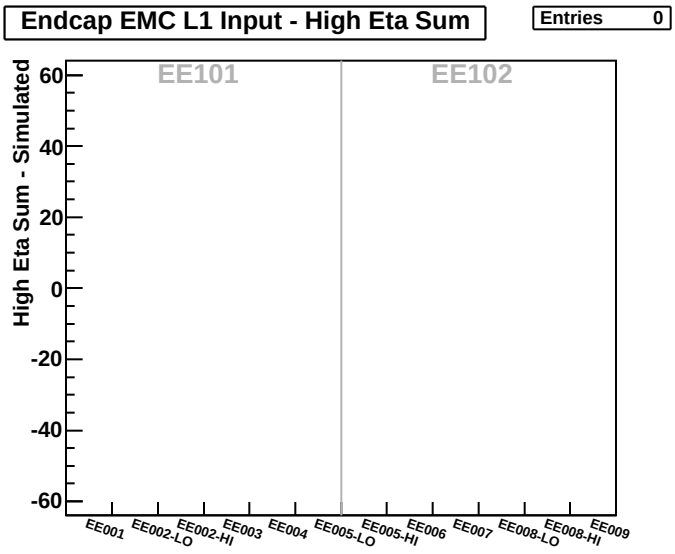

Barrel EMC L1 Input - High Tower Bits
Entries 439056
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

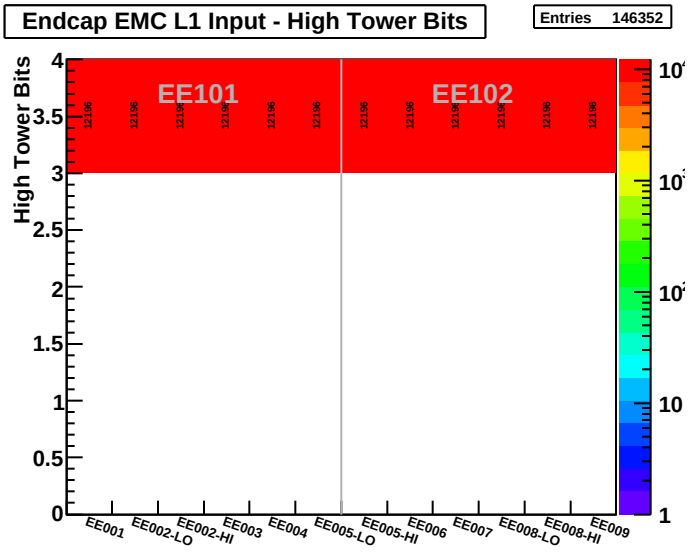

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

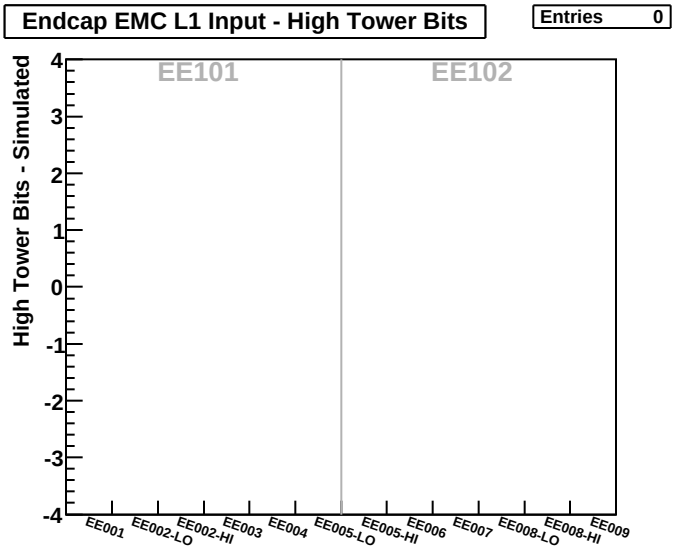

Endcap EMC L1 Input - Low Eta Sum
Entries 146352
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

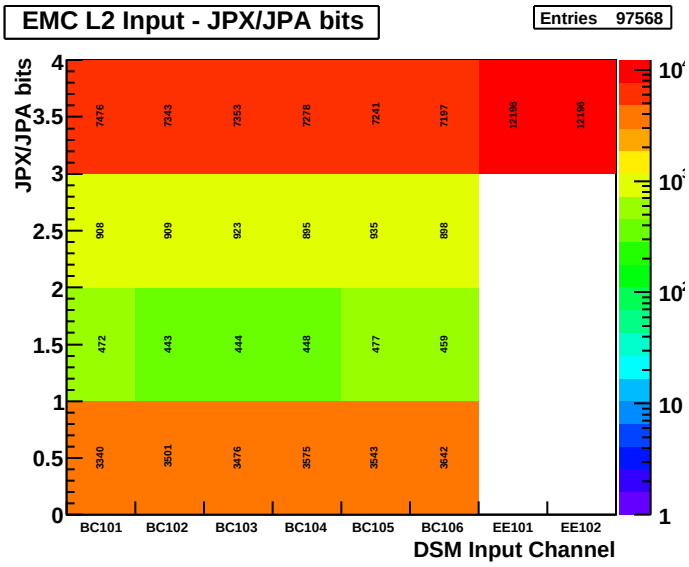

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

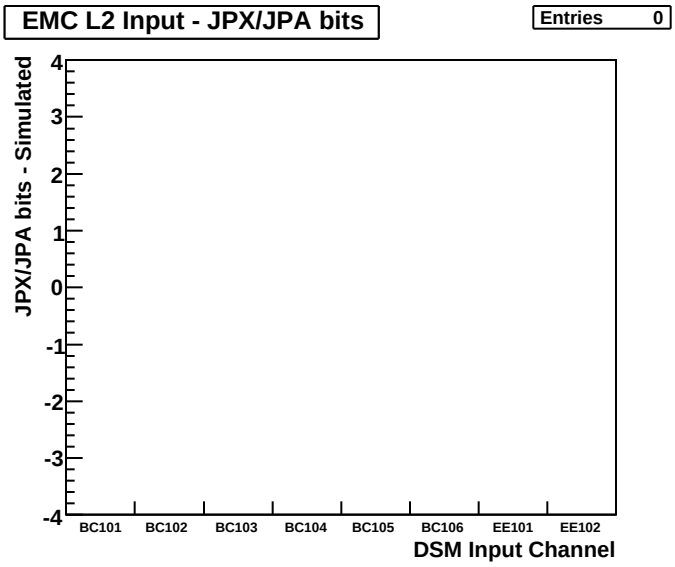

Endcap EMC L1 Input - High Eta Sum
Entries 146352
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

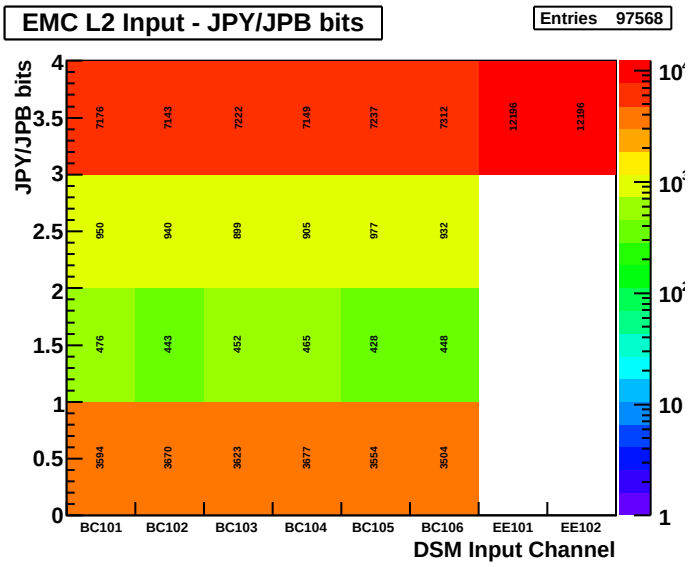

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

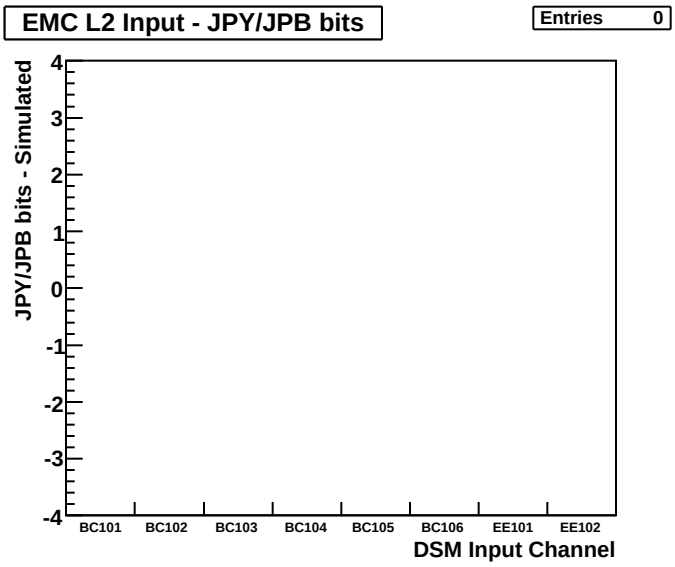

Endcap EMC L1 Input - High Tower Bits
Entries 146352
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

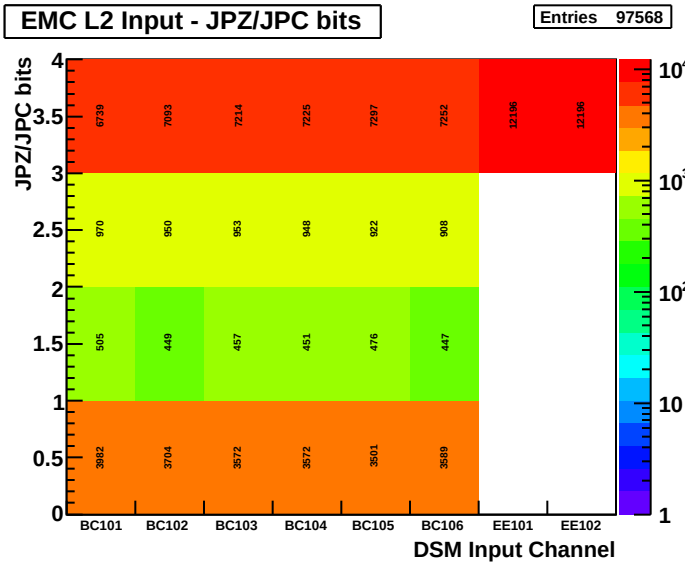

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

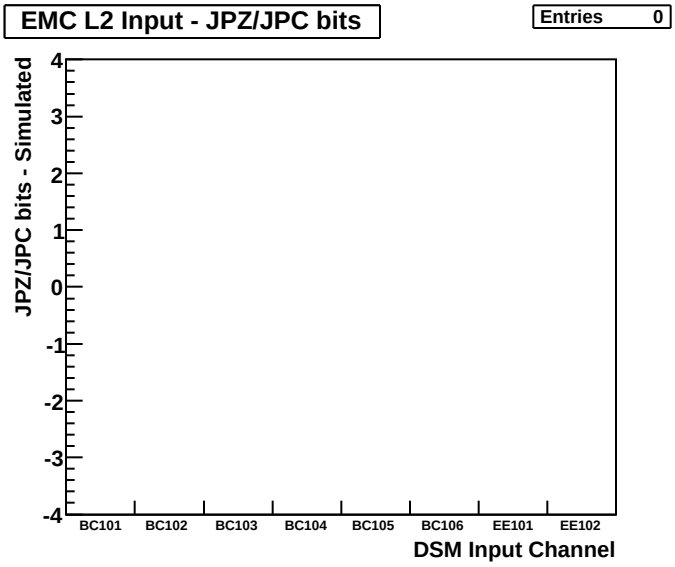

EMC L2 Input - JPX/JPA bits
Entries 97568
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
7476 7343 7353 7278 7241 7197 12196 12196
908 909 923 895 935 888
472 443 444 448 477 459
3340 3501 3476 3575 3543 3642

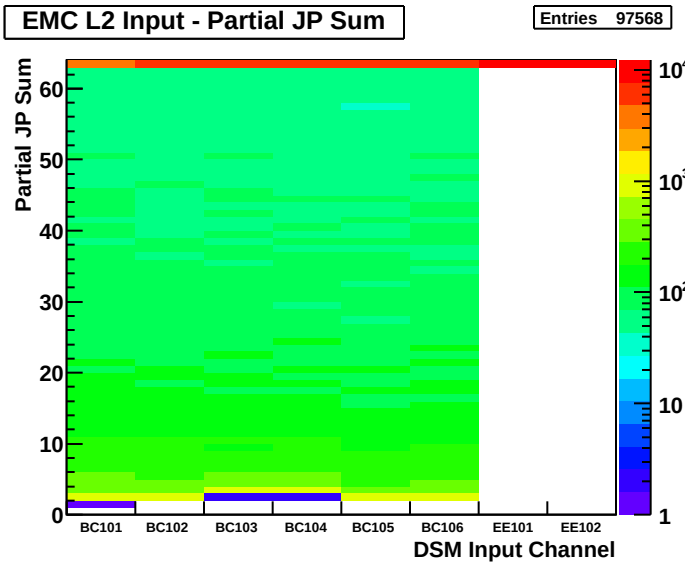

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

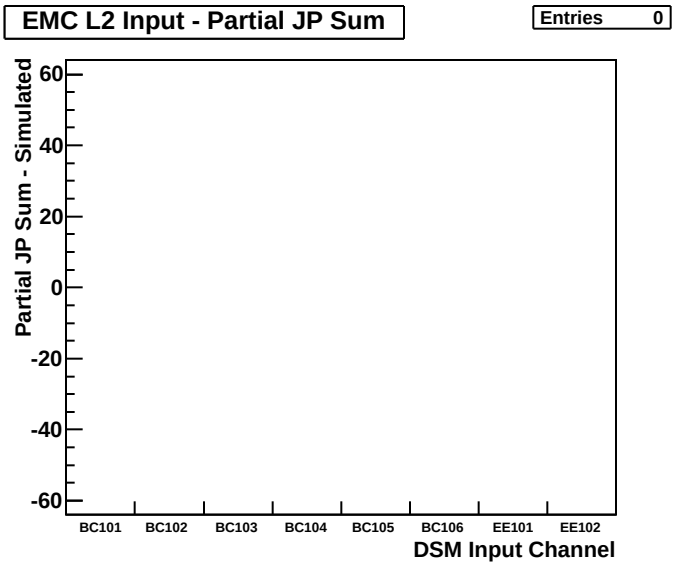

EMC L2 Input - JPY/JPB bits
Entries 97568
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
7176 7143 7222 7149 7237 7312 12196 12196
950 940 899 905 977 932
476 443 452 465 428 448
3594 3670 3623 3677 3554 3504

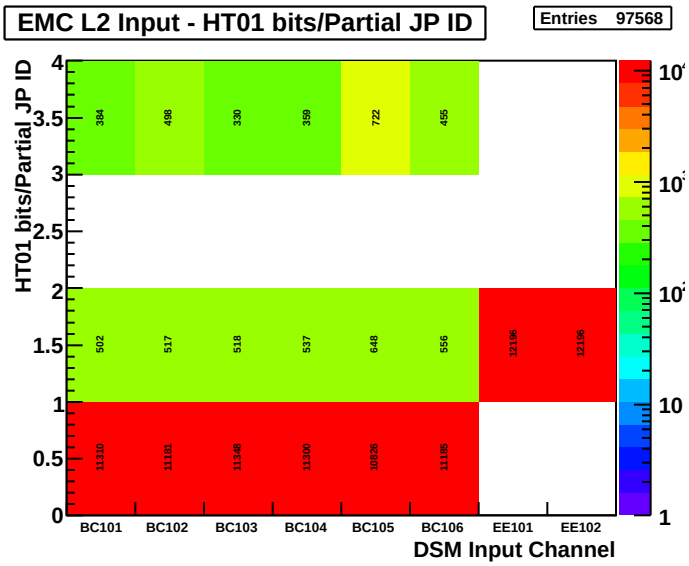

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

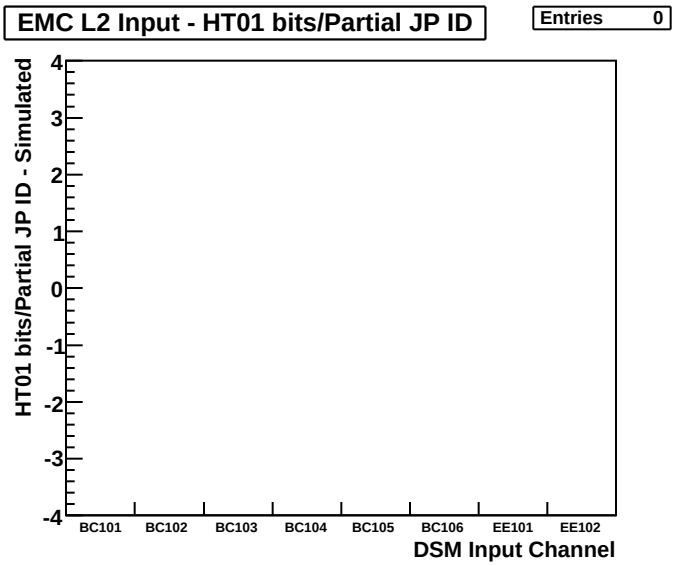

EMC L2 Input - JPZ/JPC bits
Entries 97568
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
6739 7093 7214 7225 7297 7252 12196 12196
970 950 953 948 922 908
505 449 457 451 476 447
3982 3704 3572 3572 3501 3589

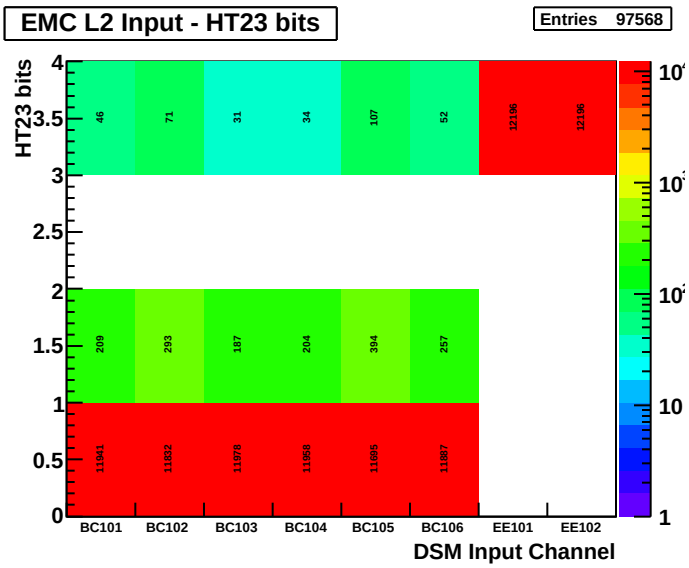

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

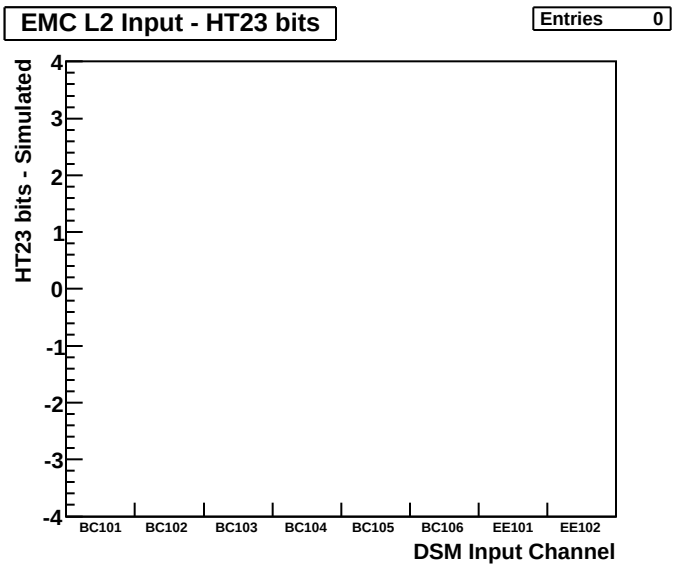

EMC L2 Input - Partial JP Sum
Entries 97568
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

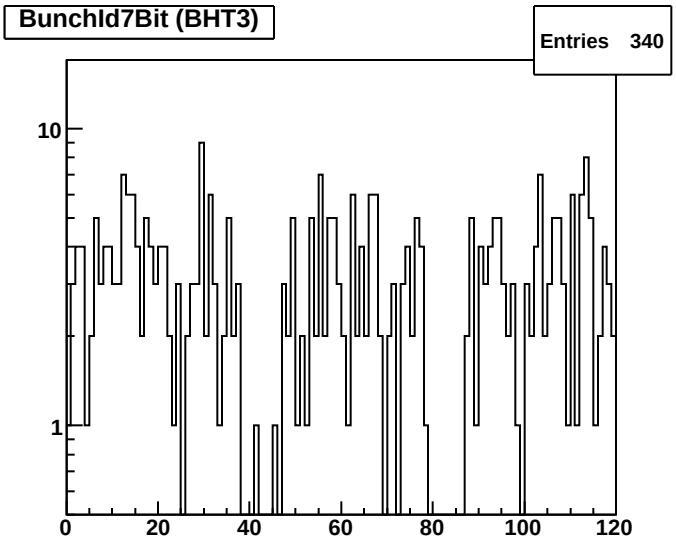

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

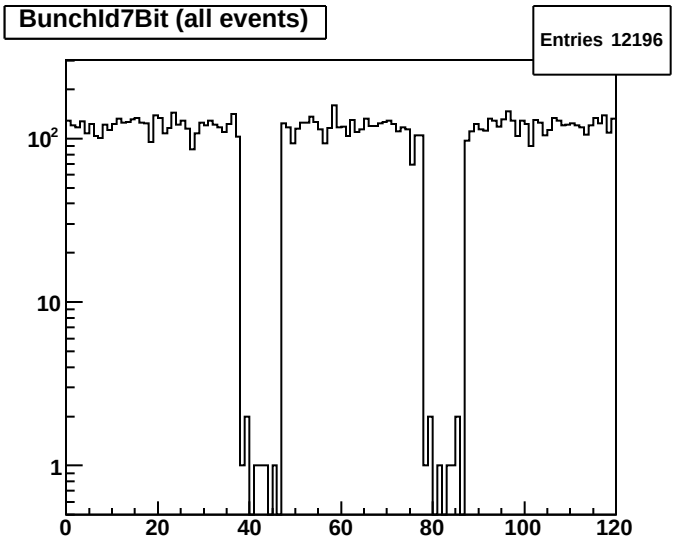

EMC L2 Input - HT01 bits/Partial JP ID
Entries 97568
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

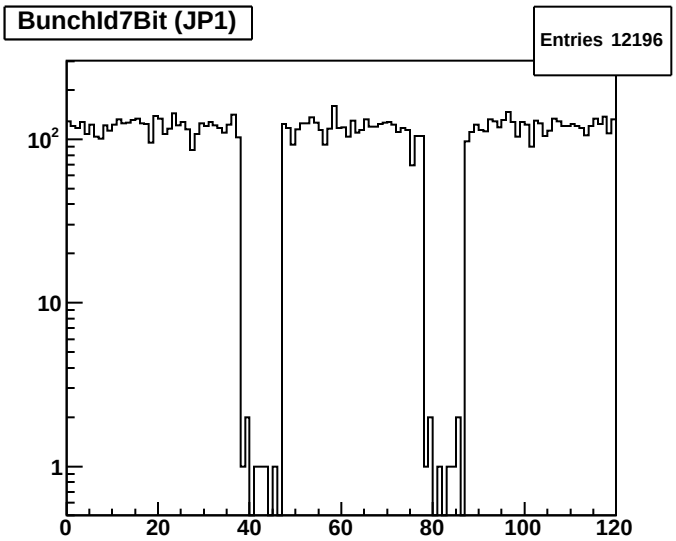

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

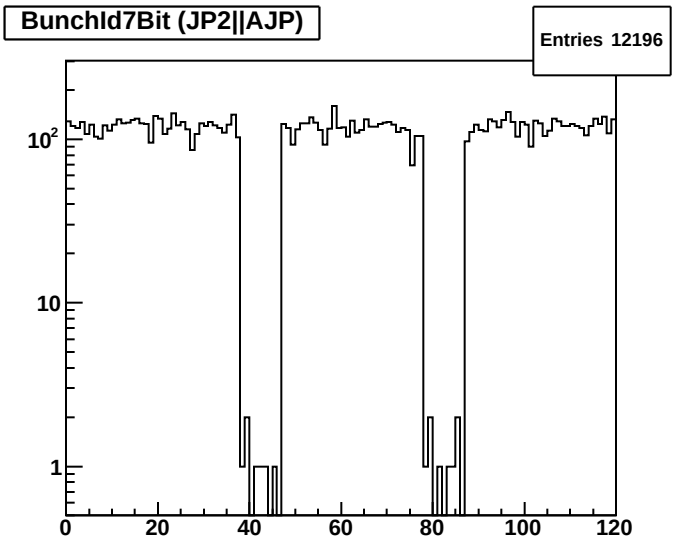

EMC L2 Input - HT23 bits
Entries 97568
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

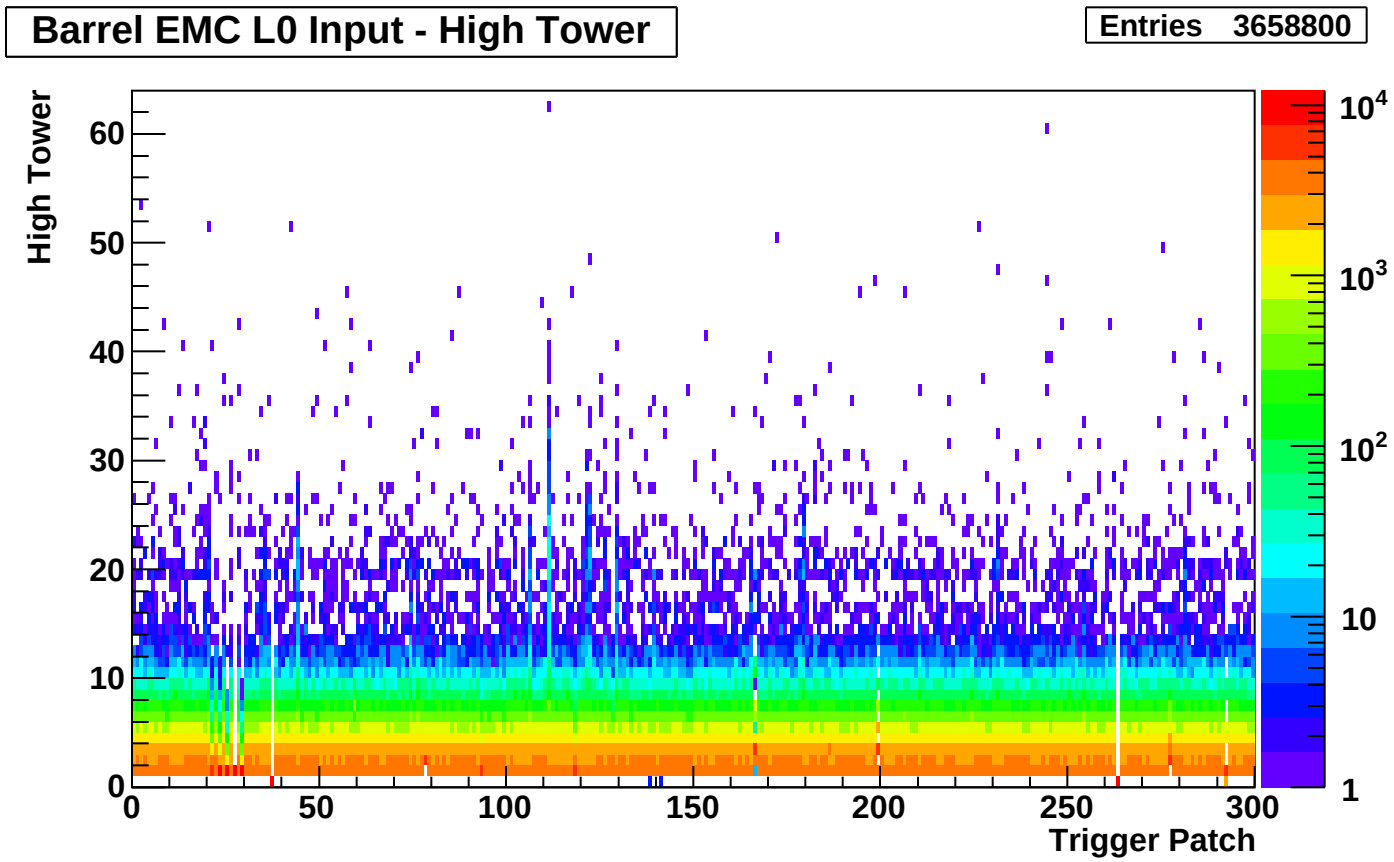

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

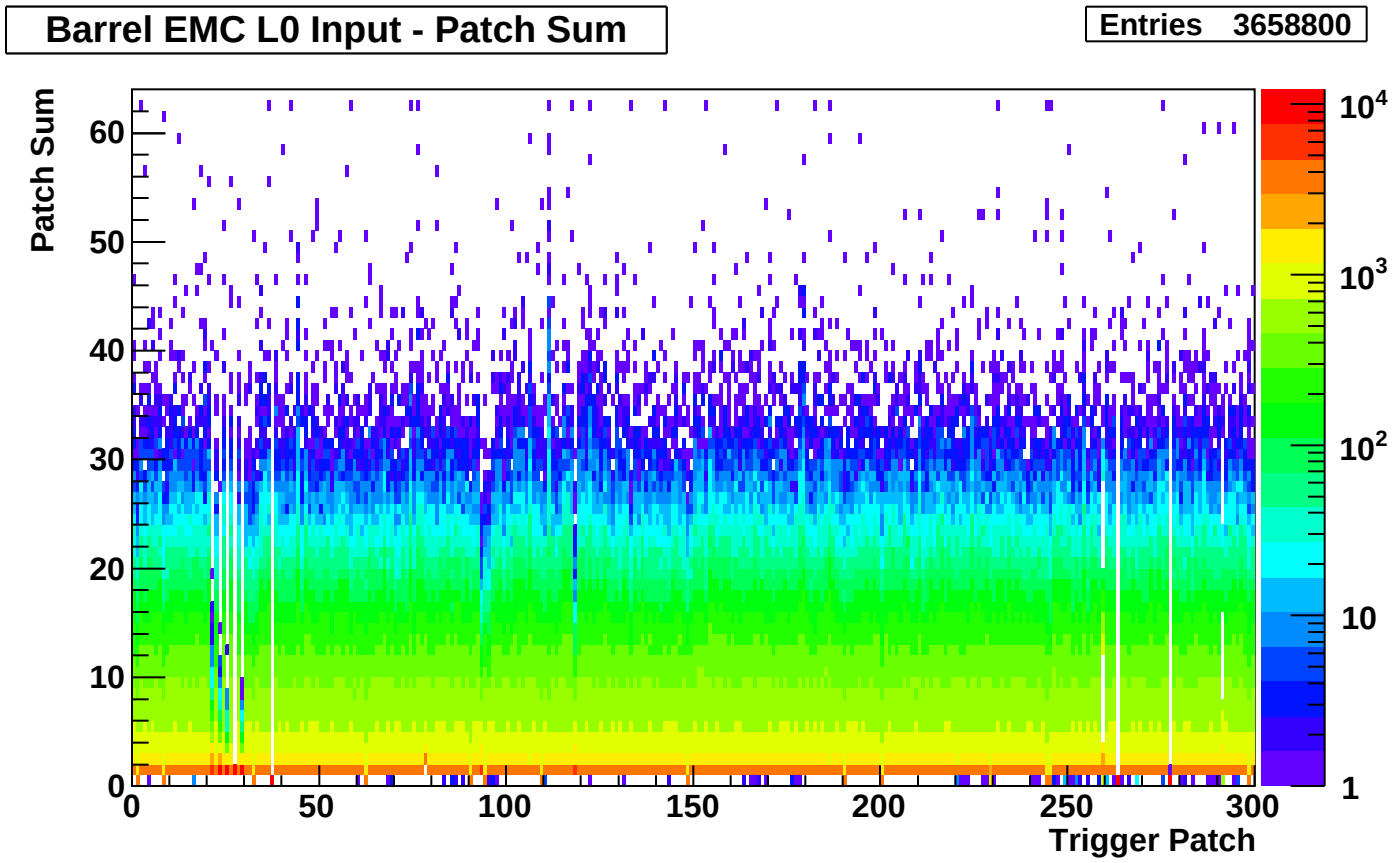

BunchId7Bit (BHT3)
Entries 340
10
1
0
20
40
60
80
100
120

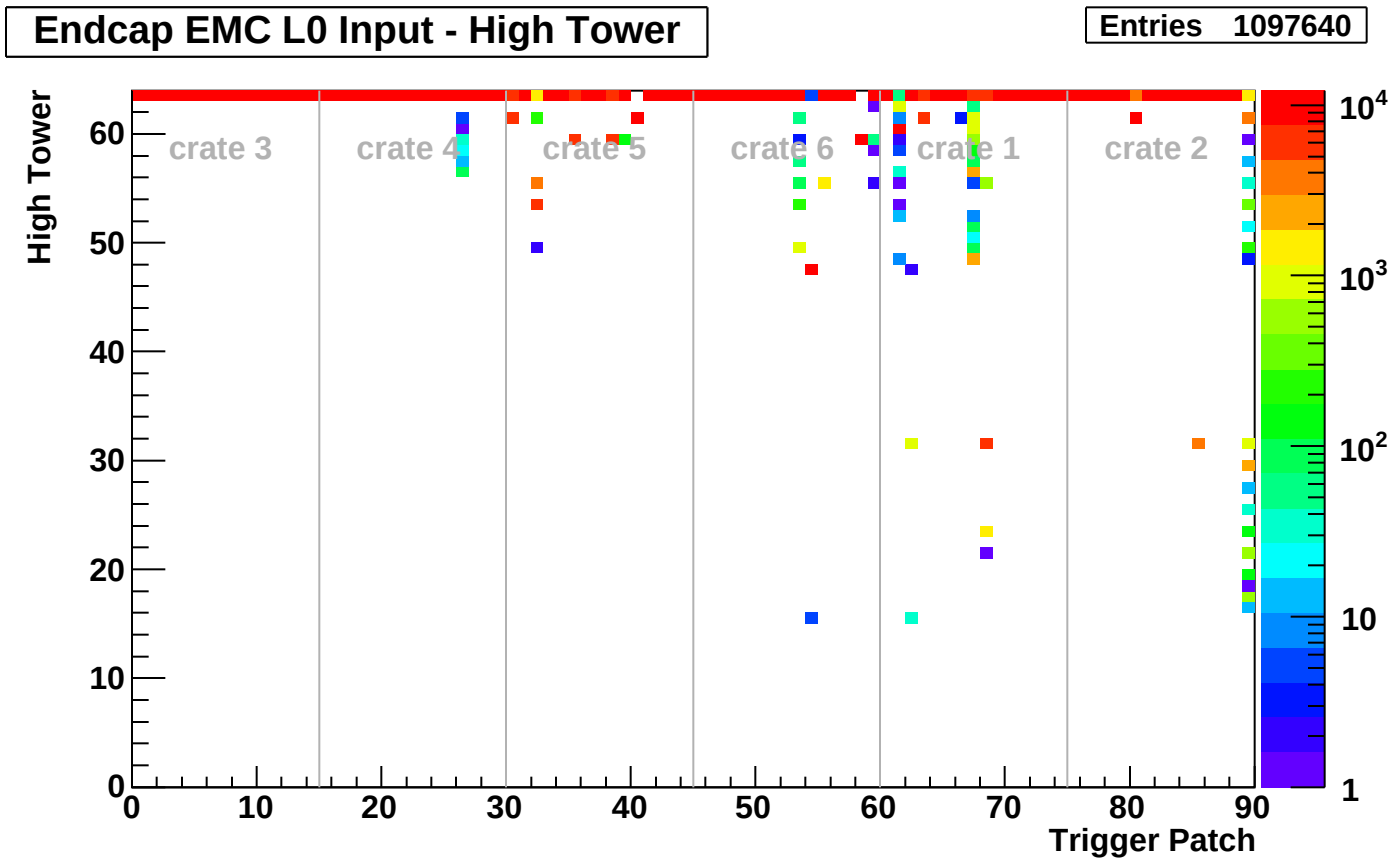

BunchId7Bit (all events)
Entries 12196
10^2
10
1
0
20
40
60
80
100
120

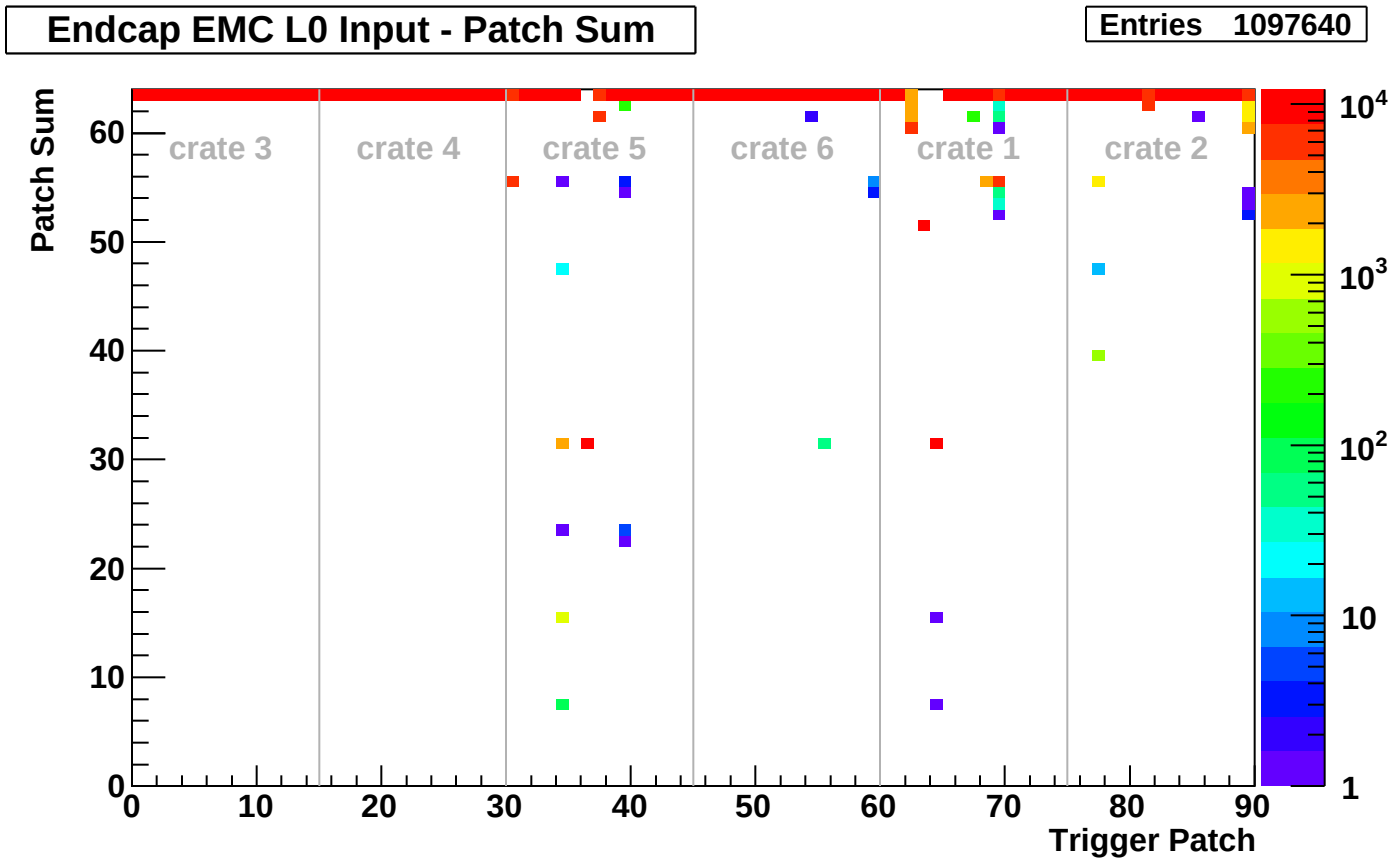

BunchId7Bit (JP1)
Entries 12196
10^2
10
1
0
20
40
60
80
100
120

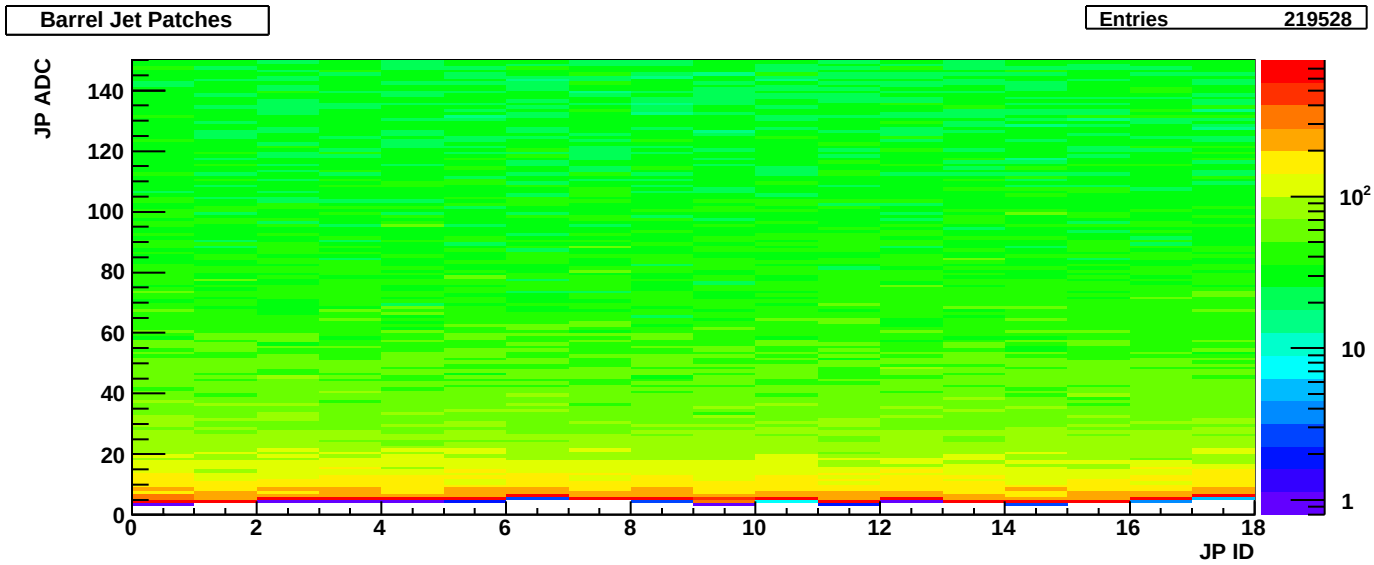

BunchId7Bit (JP2||AJP)
Entries 12196
10^2
10
1
0
20
40
60
80
100
120

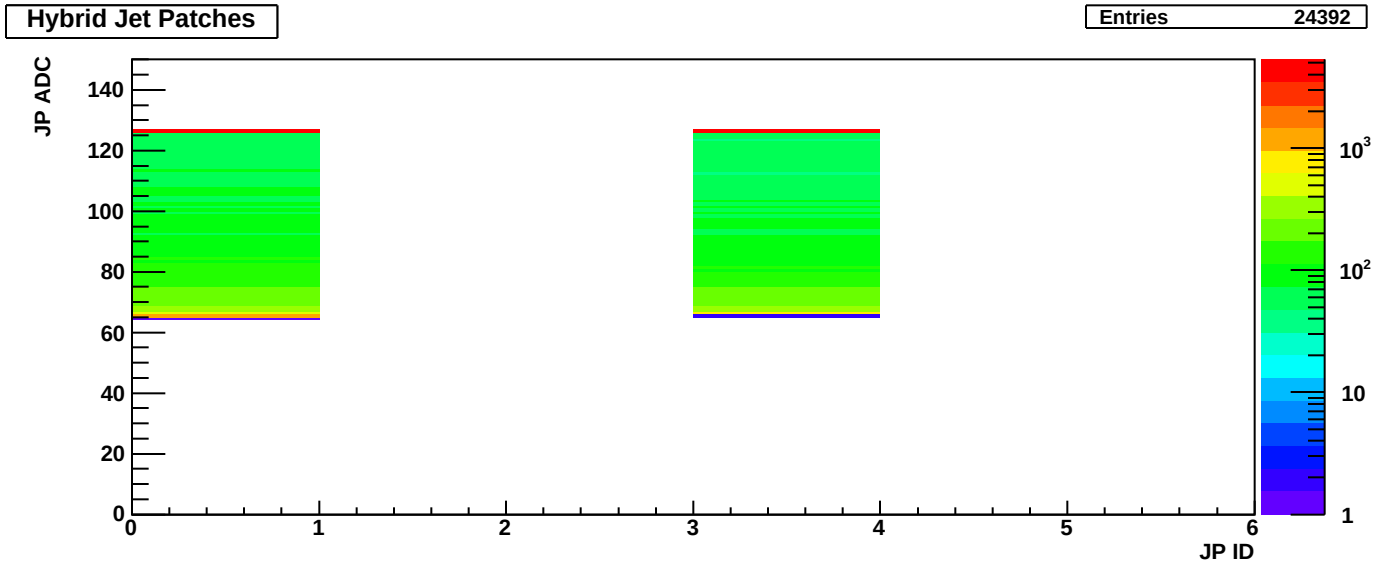

Barrel EMC L0 Input - High Tower
Entries 3658800
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

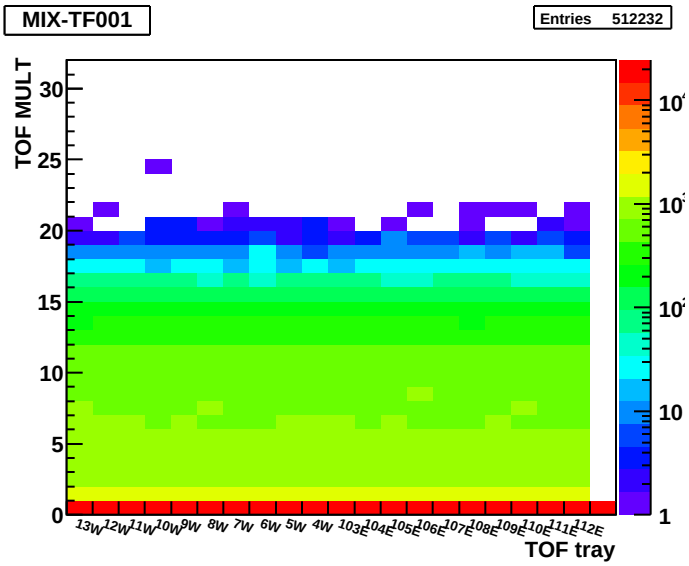

Barrel EMC L0 Input - Patch Sum
Entries 3658800
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

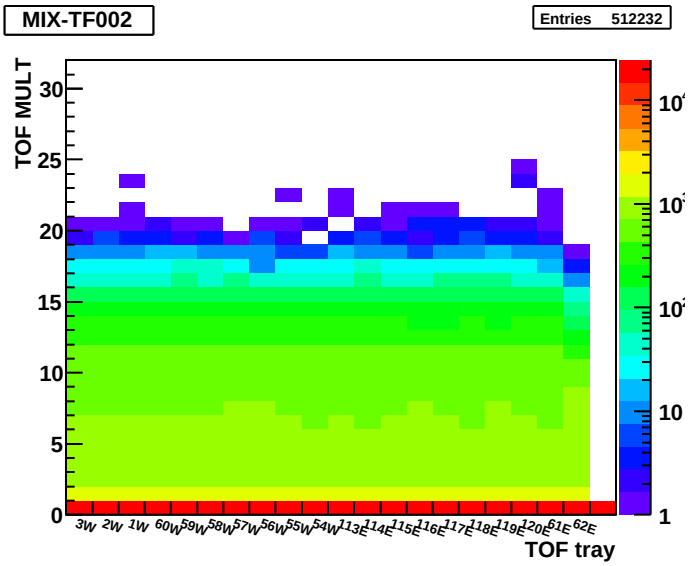

Endcap EMC L0 Input - High Tower
Entries 1097640
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

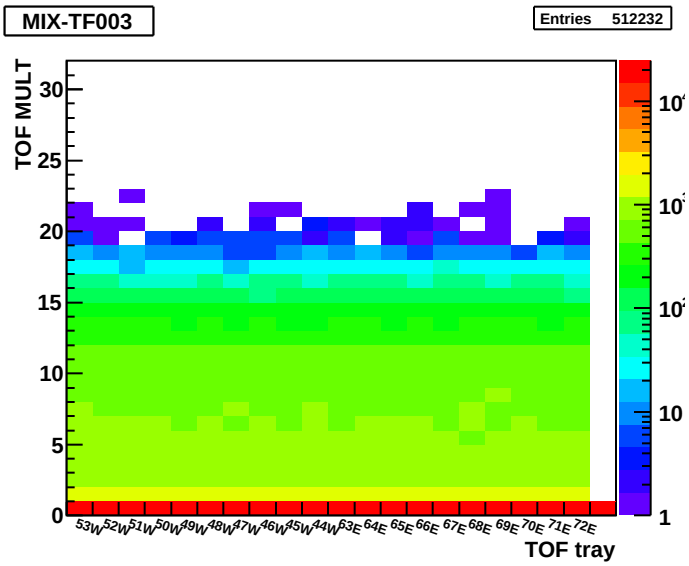

Endcap EMC L0 Input - Patch Sum
Entries 1097640
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

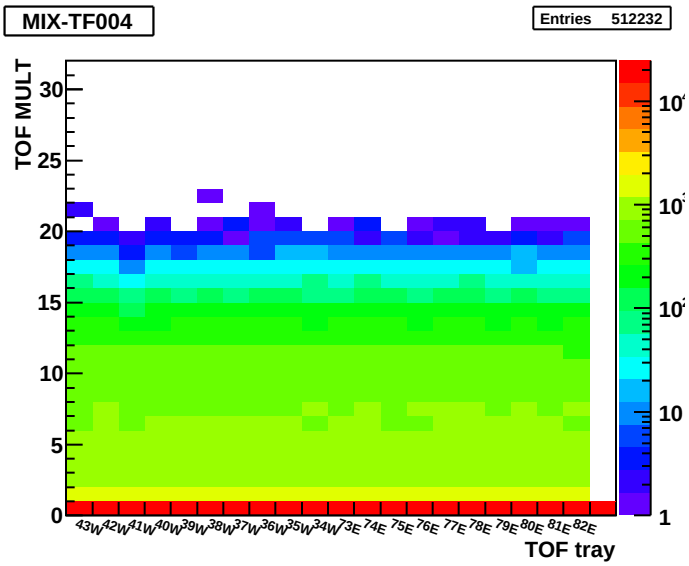

Barrel Jet Patches
Entries 219528
JP ADC
JP ID

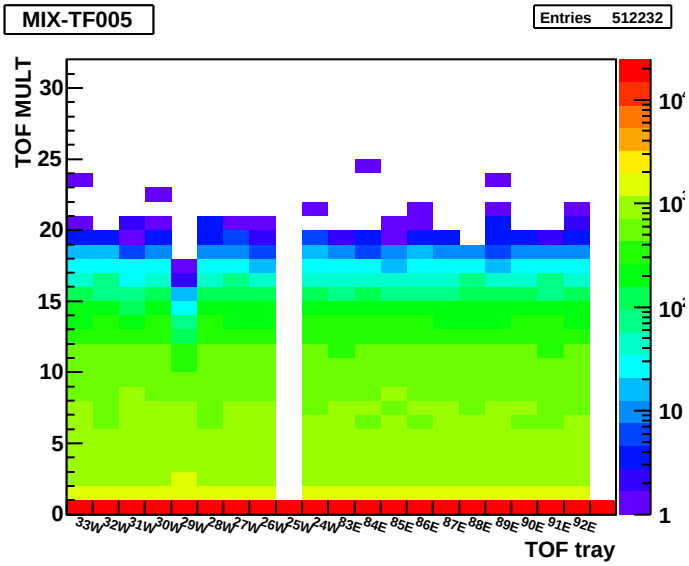

Hybrid Jet Patches
Entries 24392
JP ADC
JP ID

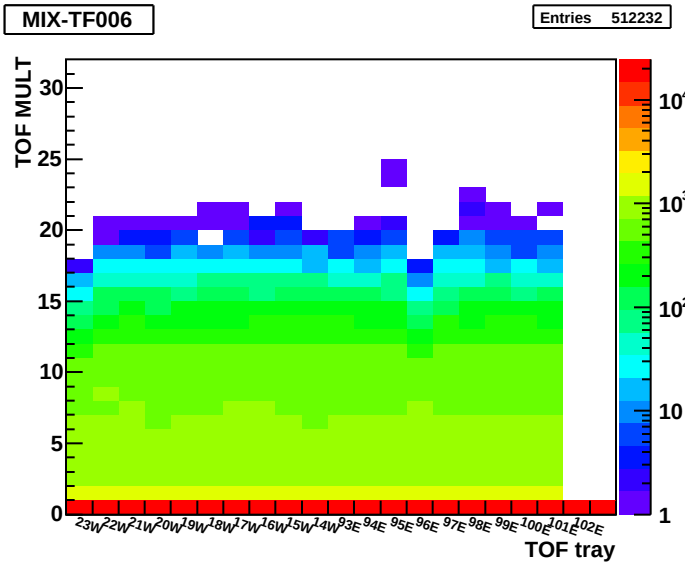

MIX-TF001
Entries 512232
TOF MULT
TOF tray

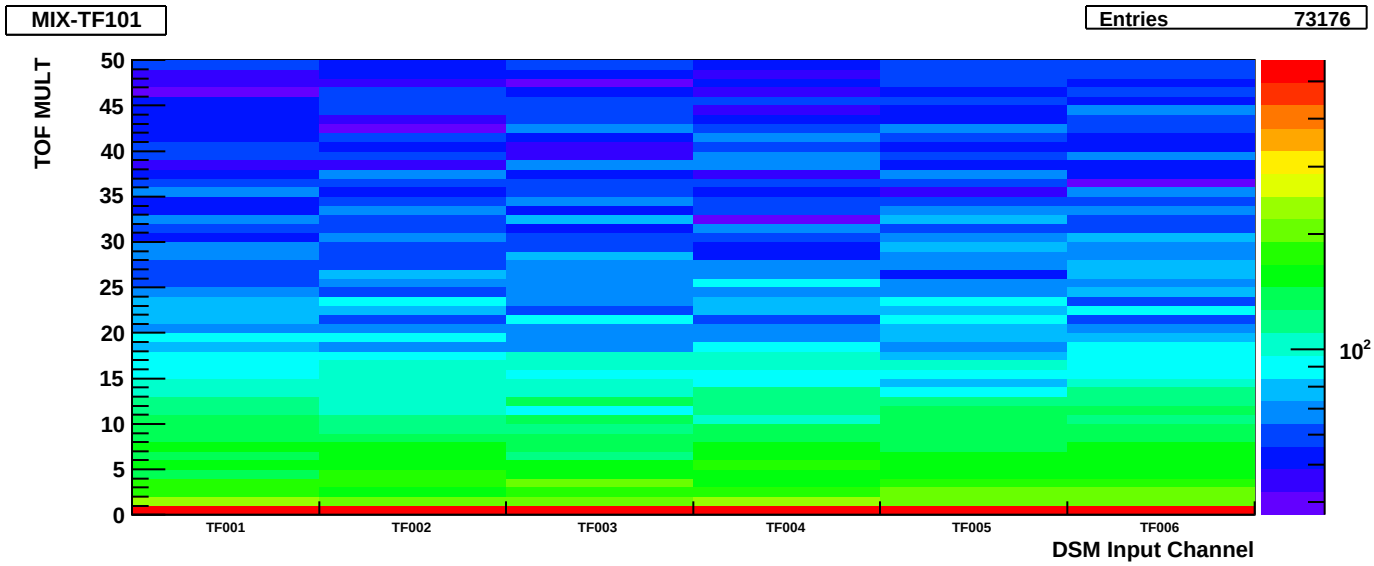

MIX-TF002
Entries 512232
TOF MULT
TOF tray

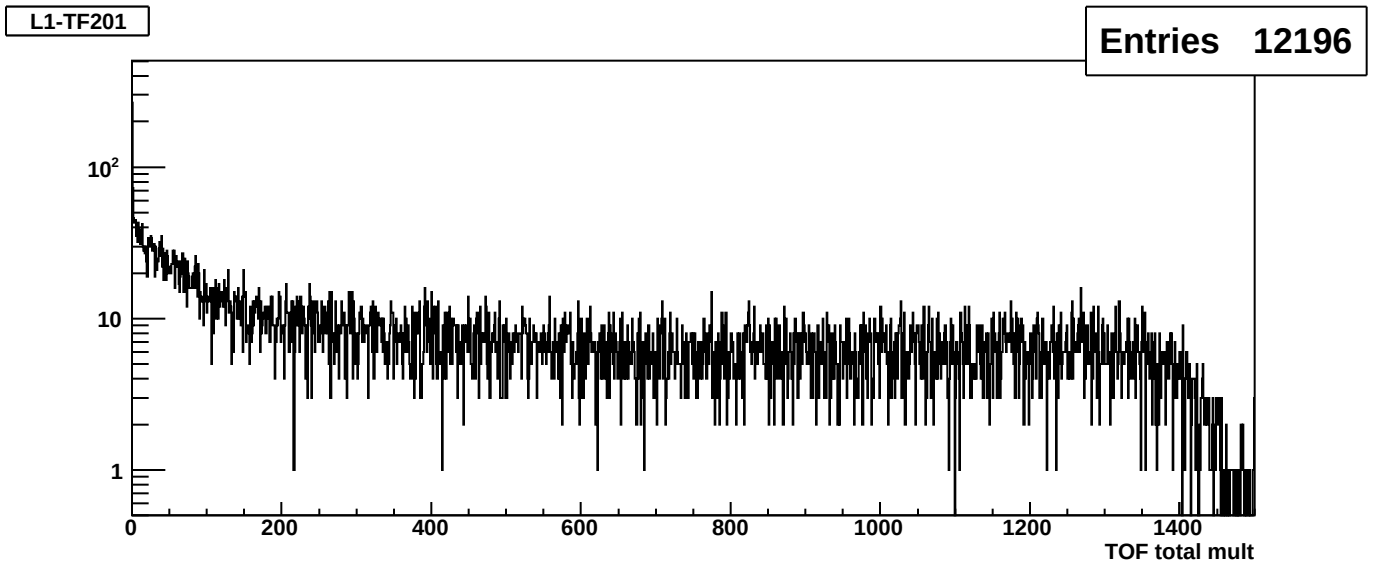

MIX-TF003
Entries 512232
TOF MULT
TOF tray

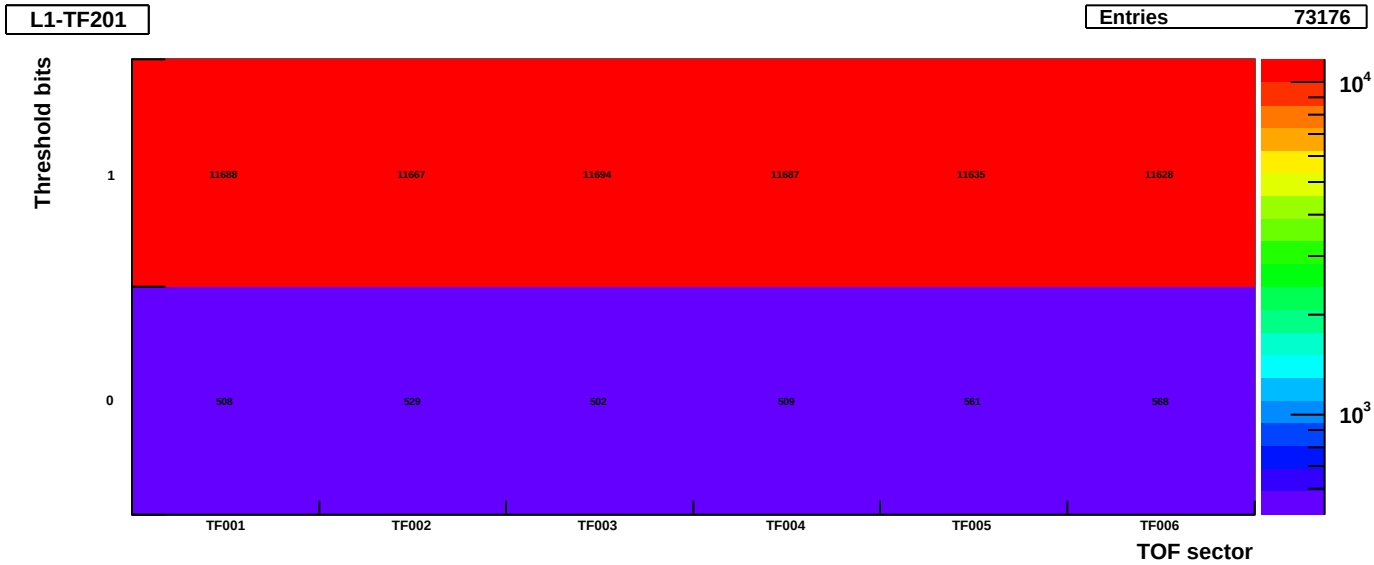

MIX-TF004
Entries 512232
TOF MULT
TOF tray

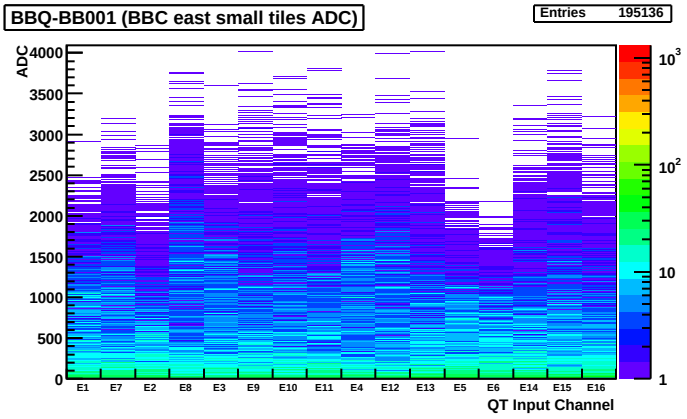

MIX-TF005
Entries 512232
TOF MULT
TOF tray

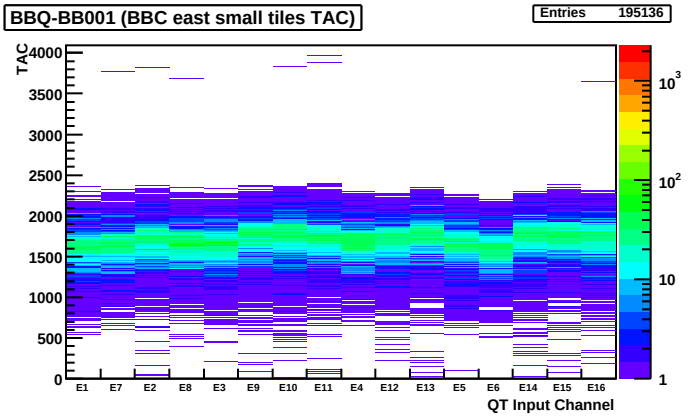

MIX-TF006
Entries 512232
TOF MULT
TOF tray

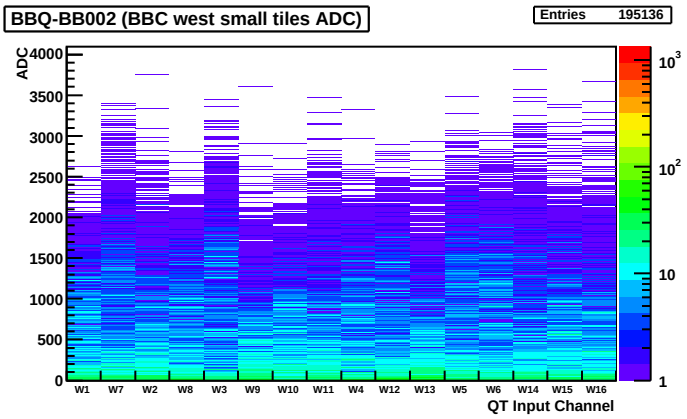

MIX-TF101
Entries 73176
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^2

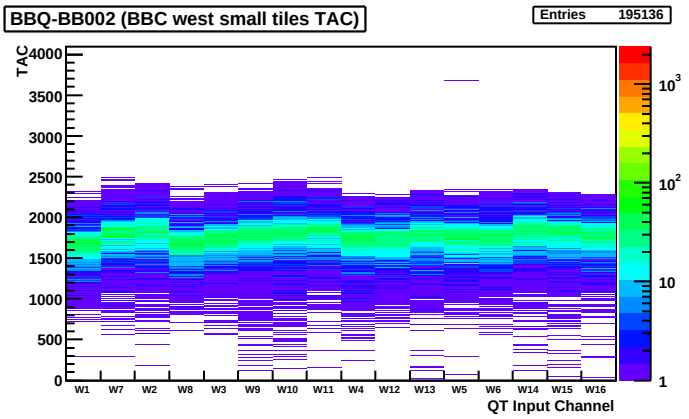

L1-TF201
Entries 12196
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

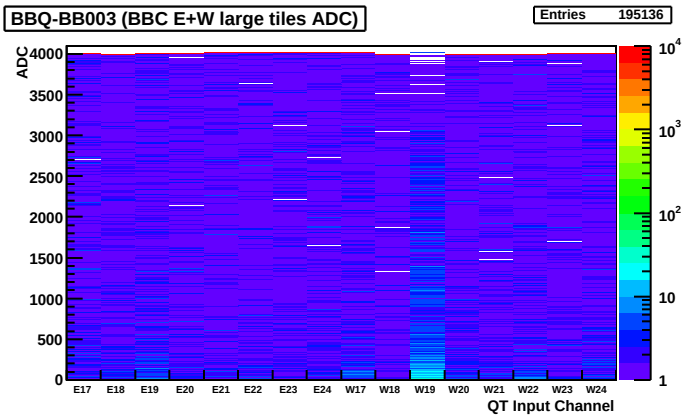

L1-TF201
Entries 73176
Threshold bits
1
0
11688
11667
11694
11687
11635
11628
508
529
502
509
561
568
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3

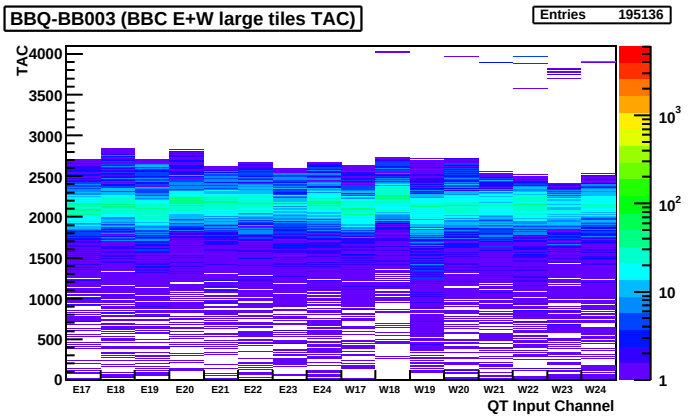

BBQ-BB001 (BBC east small tiles ADC)
Entries 195136
ADC
QT Input Channel

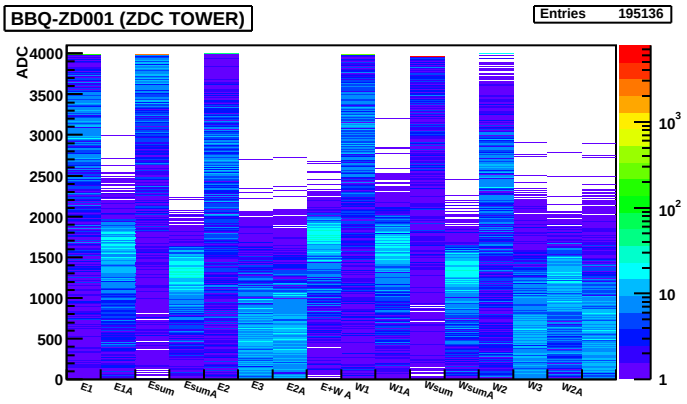

BBQ-BB001 (BBC east small tiles TAC)
Entries 195136
TAC
QT Input Channel

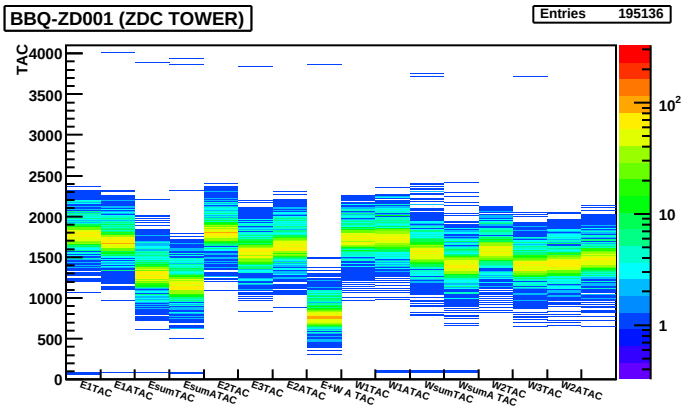

BBQ-BB002 (BBC west small tiles ADC)
Entries 195136
ADC
QT Input Channel

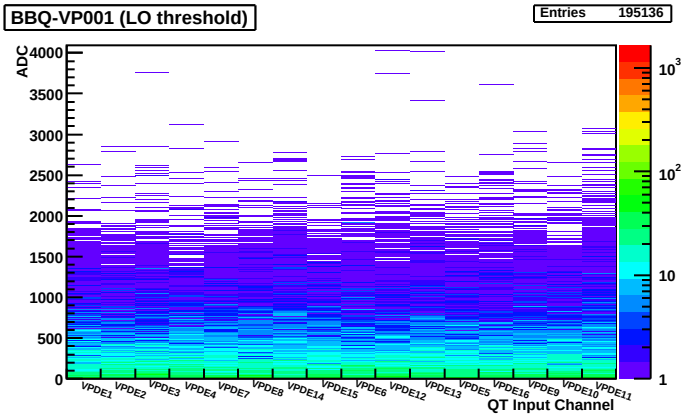

BBQ-BB002 (BBC west small tiles TAC)
Entries 195136
TAC
QT Input Channel

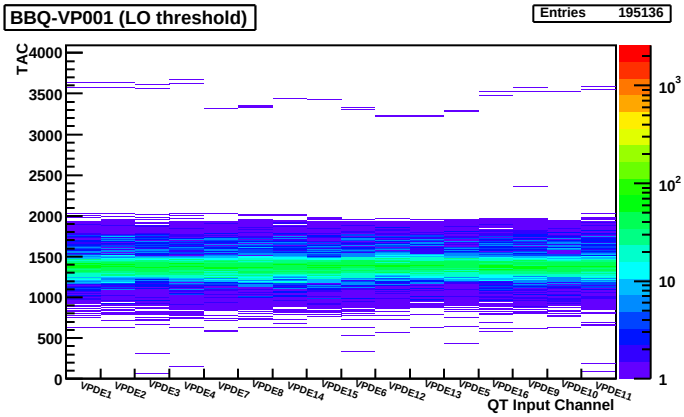

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 195136
ADC
QT Input Channel

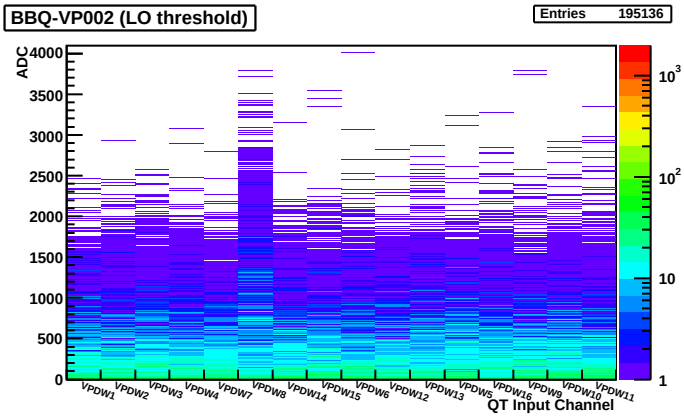

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 195136
TAC
QT Input Channel

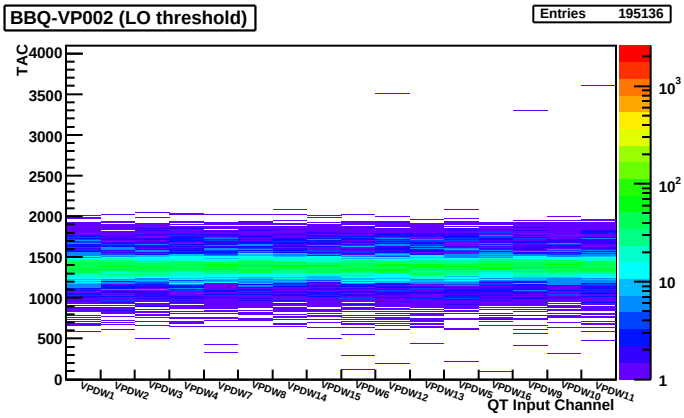

BBQ-ZD001 (ZDC TOWER)
Entries 195136
ADC

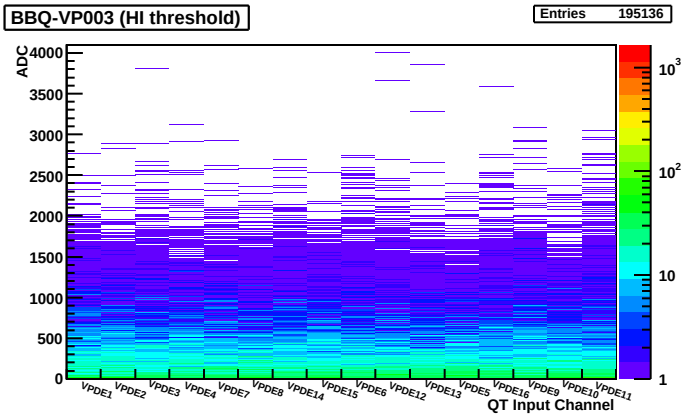

BBQ-ZD001 (ZDC TOWER)
Entries 195136
TAC

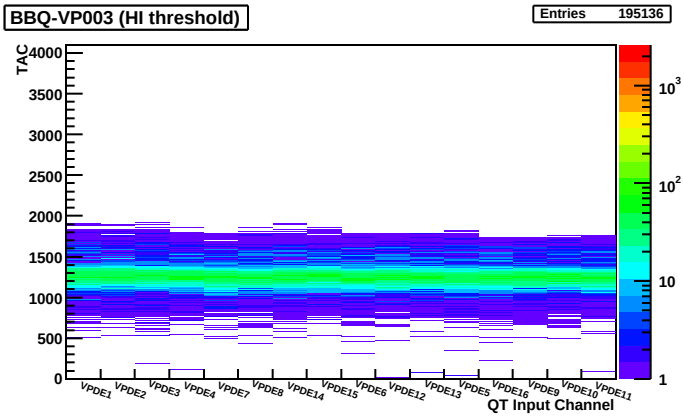

BBQ-VP001 (LO threshold)
Entries 195136
ADC
QT Input Channel

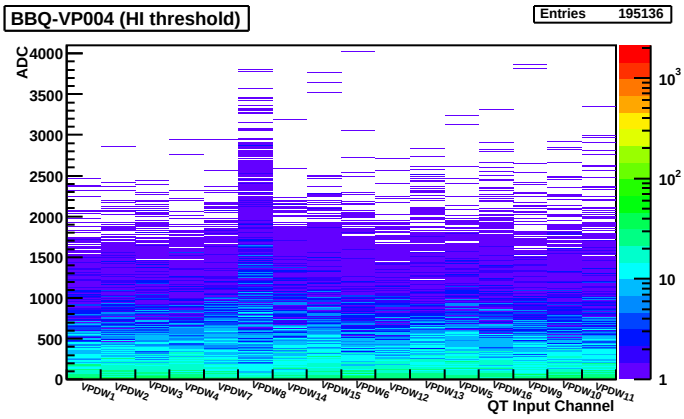

BBQ-VP001 (LO threshold)
Entries 195136
TAC
QT Input Channel

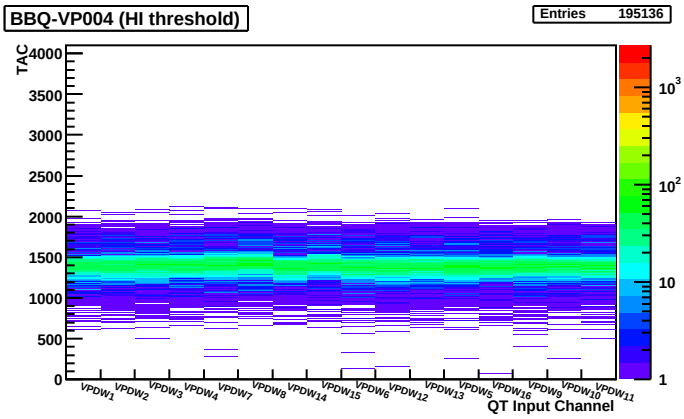

BBQ-VP002 (LO threshold)
Entries 195136
ADC
QT Input Channel

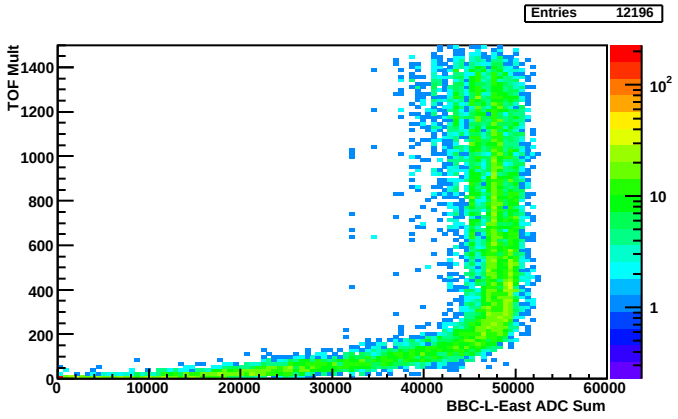

BBQ-VP002 (LO threshold)
Entries 195136
TAC
QT Input Channel

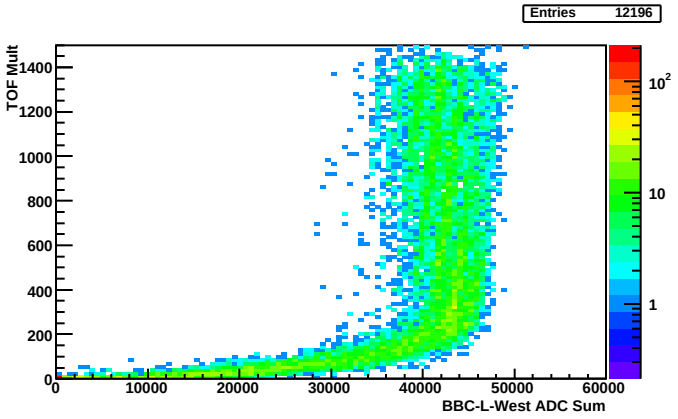

BBQ-VP003 (HI threshold)
Entries 195136
ADC
QT Input Channel

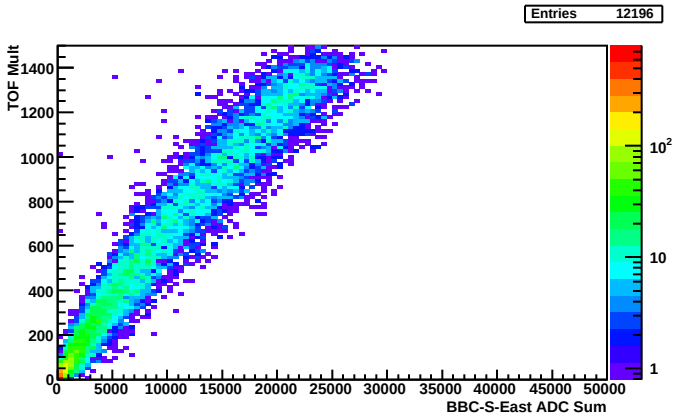

BBQ-VP003 (HI threshold)
Entries 195136
TAC
QT Input Channel

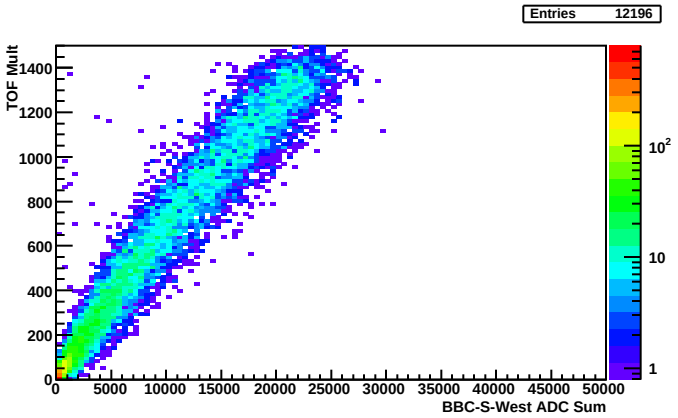

BBQ-VP004 (HI threshold)
Entries 195136
ADC
QT Input Channel

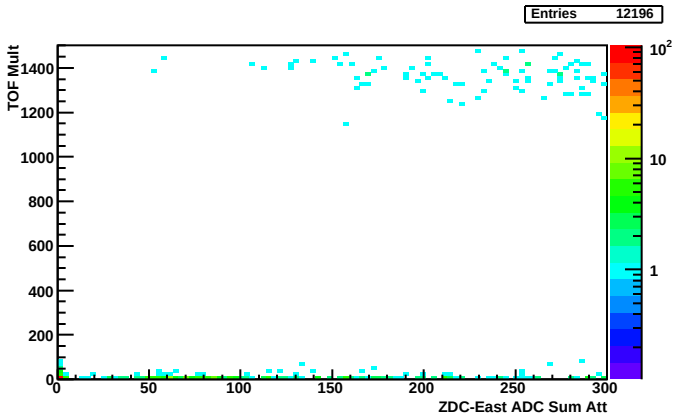

BBQ-VP004 (HI threshold)
Entries 195136
TAC
QT Input Channel

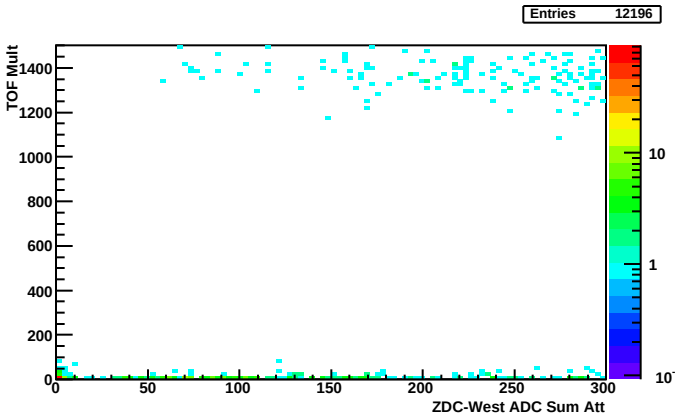

Entries 12196
TOF Mult
BBC-L-East ADC Sum

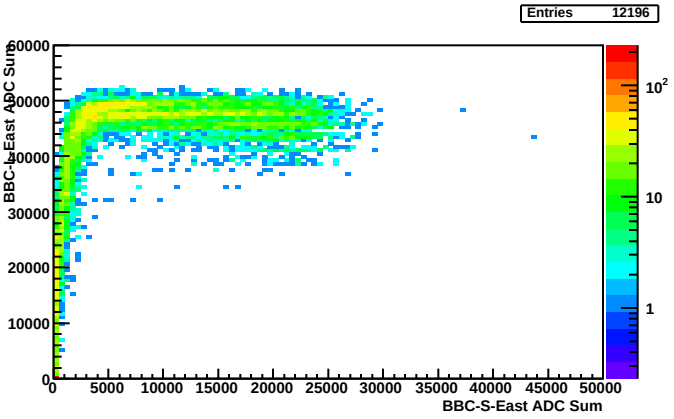

Entries 12196
TOF Mult
BBC-L-West ADC Sum

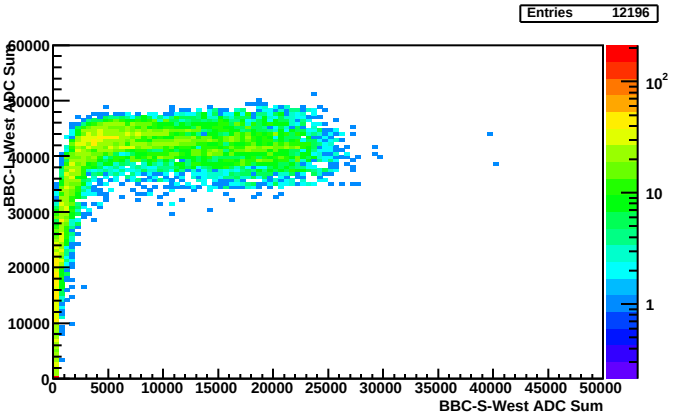

Entries 12196
TOF Mult
BBC-S-East ADC Sum

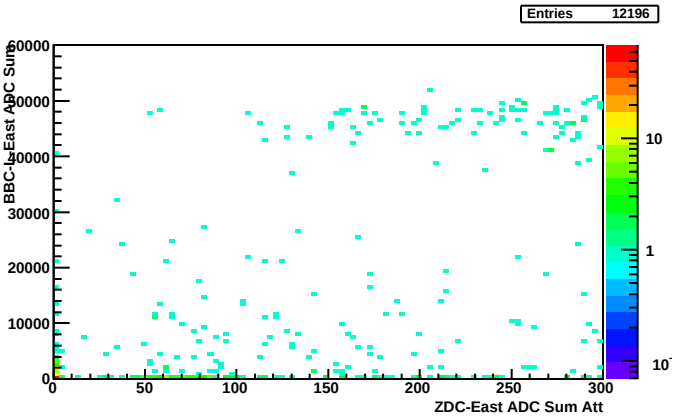

Entries 12196
TOF Mult
BBC-S-West ADC Sum


Entries 12196
TOF Mult
ZDC-East ADC Sum Att


Entries 12196
TOF Mult
ZDC-West ADC Sum Att


Entries 12196
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 12196
BBC-L-West ADC Sum
BBC-S-West ADC Sum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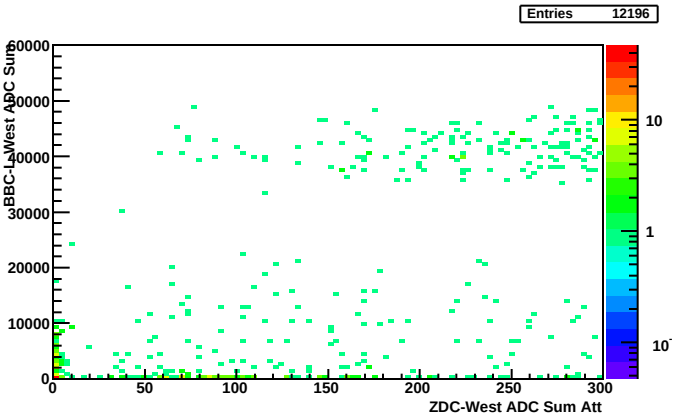
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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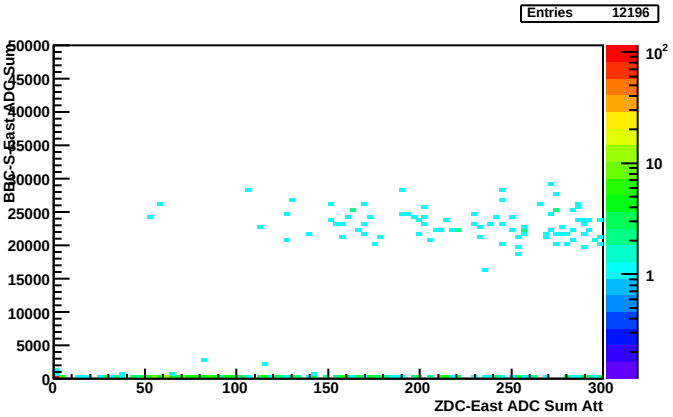
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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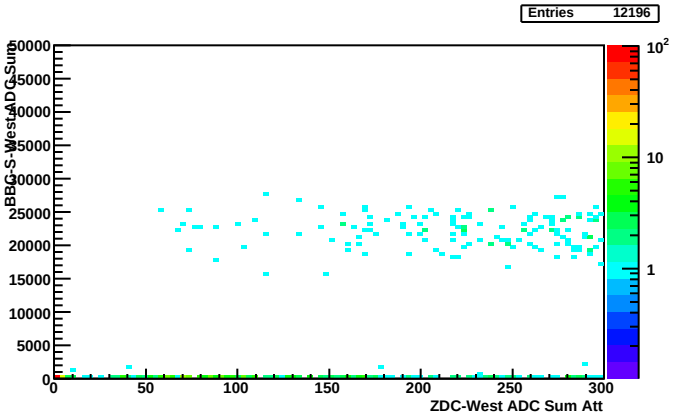
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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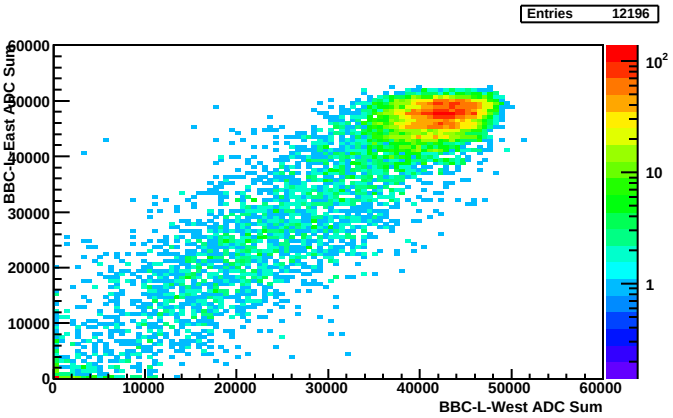
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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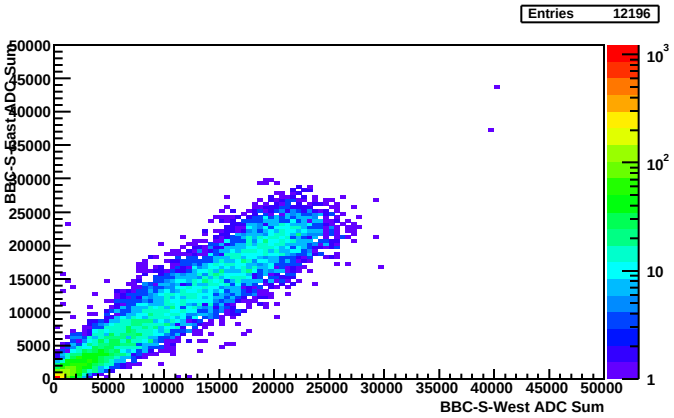
BBC-L-East ADC Sum
BBC-L-West ADC Sum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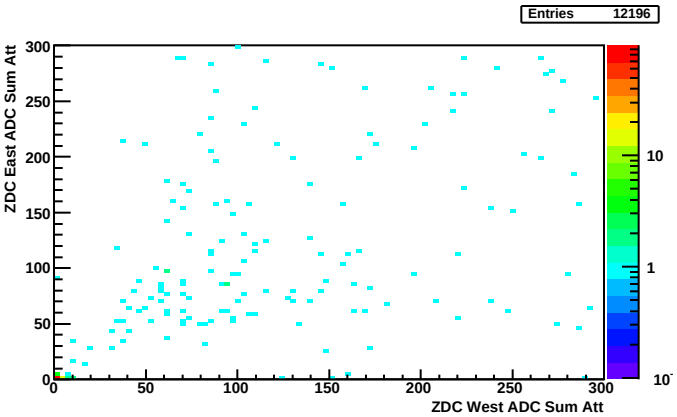
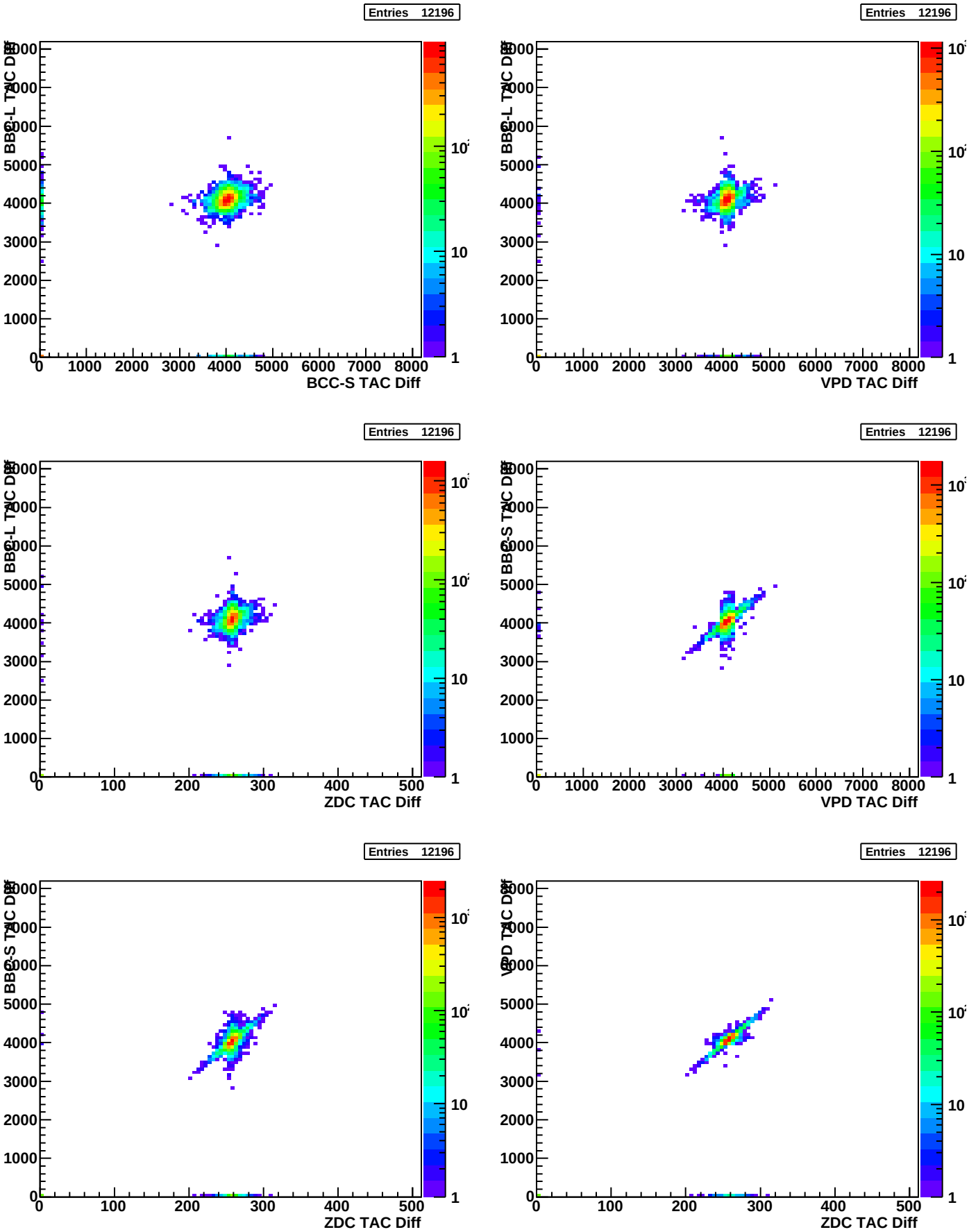
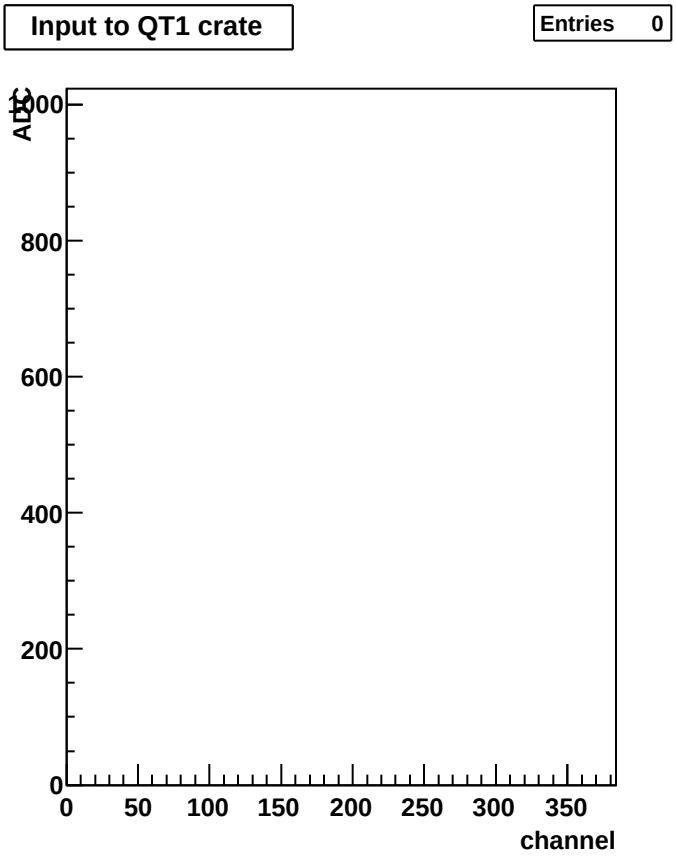
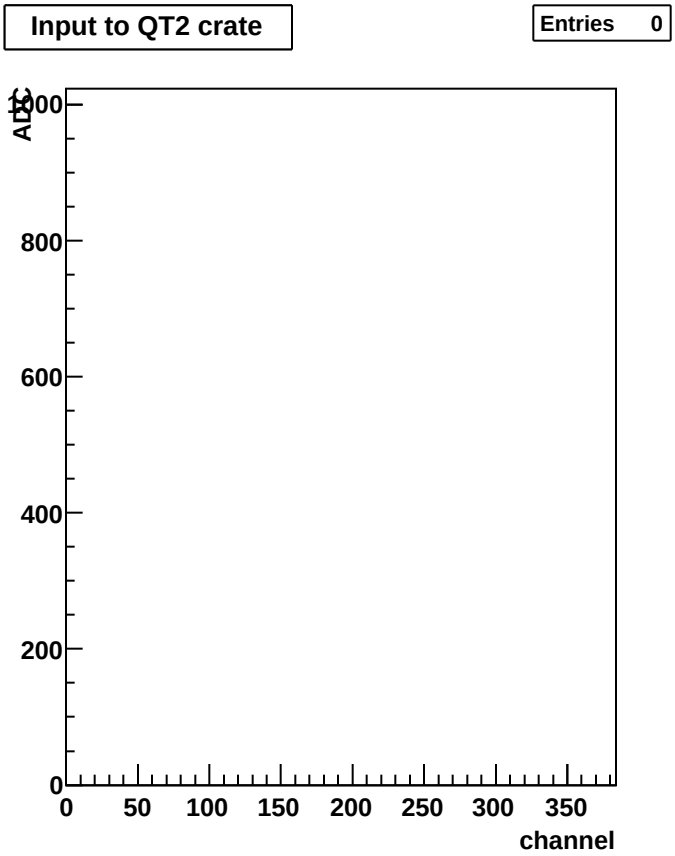
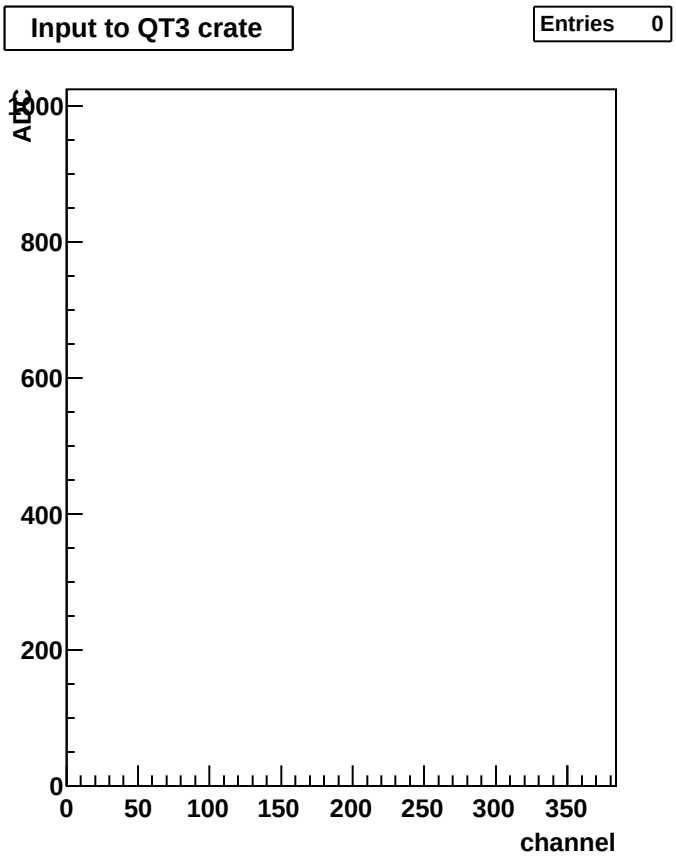
BBC-S-East ADC Sum
BBC-S-West ADC Sum

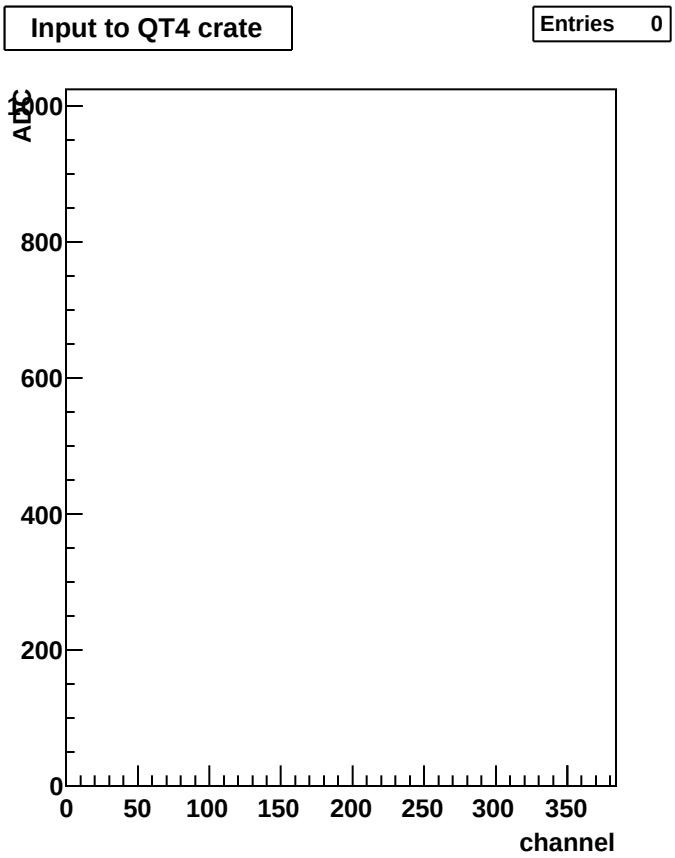

Entries 12196
ZDC East ADC Sum Att
ZDC West ADC Sum Att

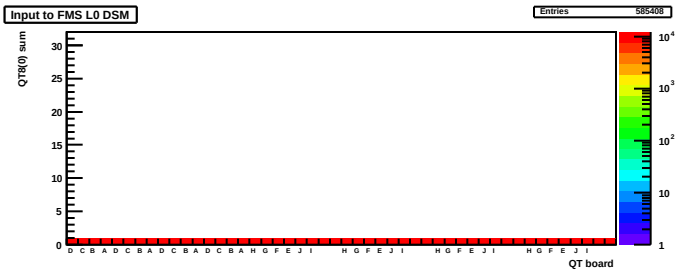

Entries 12196
BBC-L TAC Diff
BCC-S TAC Diff
Entries 12196
BBC-L TAC Diff
VPD TAC Diff
Entries 12196
BBC-L TAC Diff
ZDC TAC Diff
Entries 12196
BBC-S TAC Diff
VPD TAC Diff
Entries 12196
BBC-S TAC Diff
ZDC TAC Diff
Entries 12196
VPD TAC Diff
ZDC TAC Diff

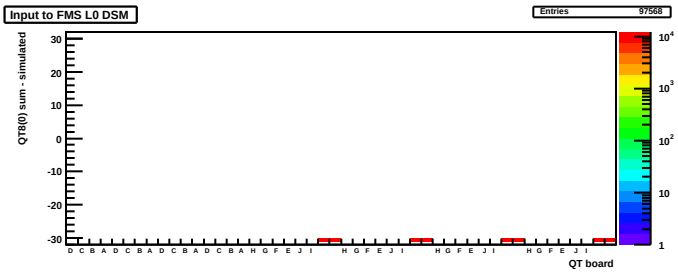

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

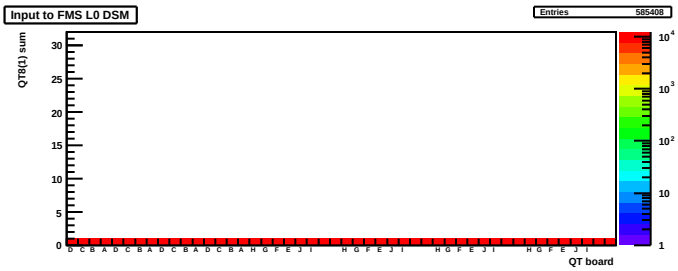

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

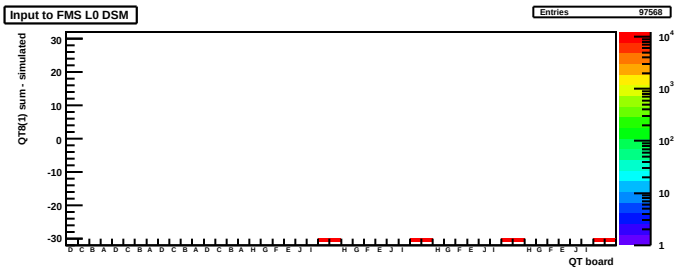

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

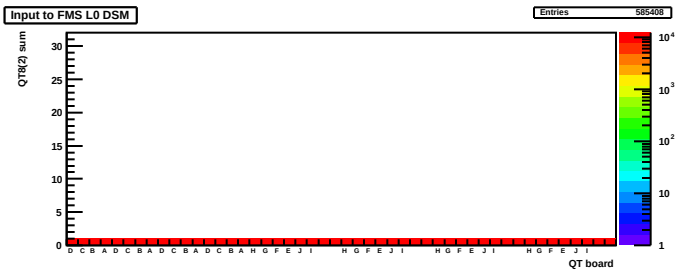

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

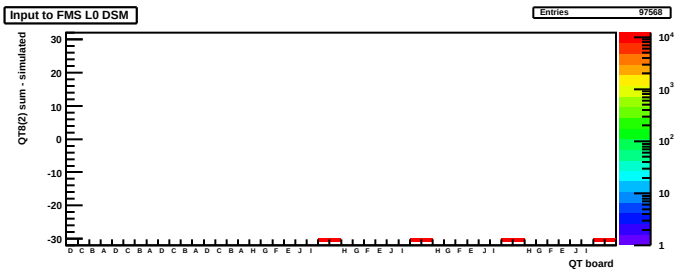

Input to FMS L0 DSM
Entries 585408
QT8(0) sum
QT board

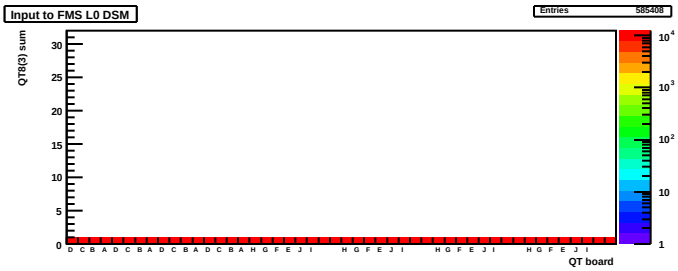

Input to FMS L0 DSM
Entries 97568
QT8(0) sum - simulated
QT board

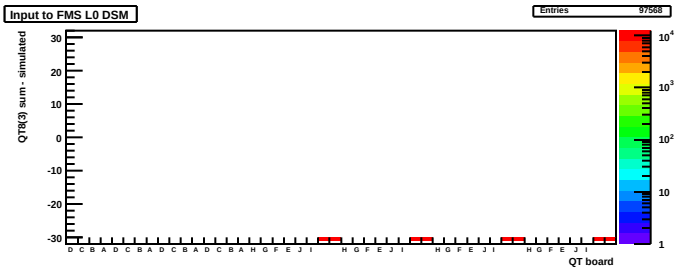

Input to FMS L0 DSM
Entries 585408
QT8(1) sum
QT board

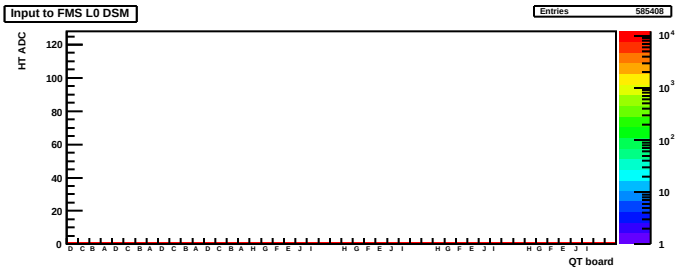

Input to FMS L0 DSM
Entries 97568
QT8(1) sum - simulated
QT board

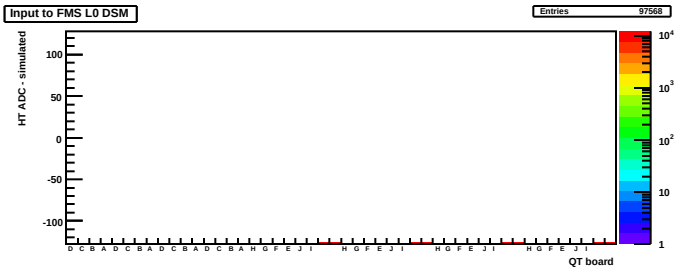

Input to FMS L0 DSM
Entries 585408
QT8(2) sum
QT board

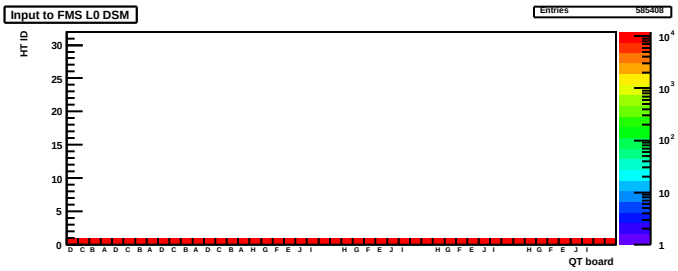

Input to FMS L0 DSM
Entries 97568
QT8(2) sum - simulated
QT board

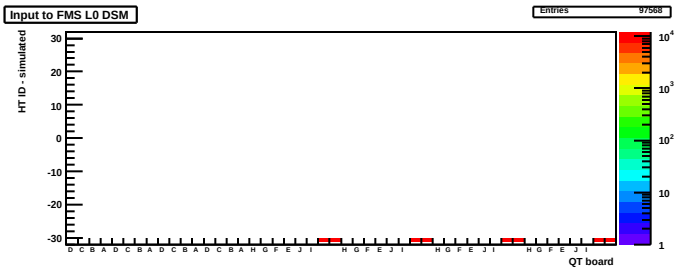

Input to FMS L0 DSM
Entries 585408
QT8(3) sum
QT board

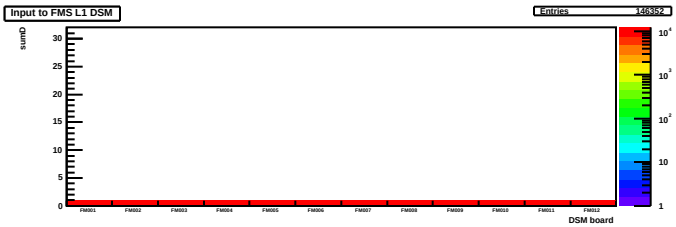

Input to FMS L0 DSM
Entries 97568
QT8(3) sum - simulated
QT board

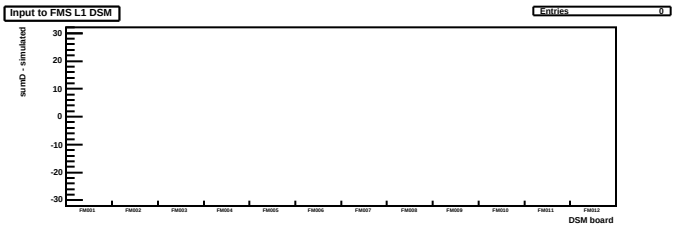

Input to FMS L0 DSM
Entries 585408
HT ADC
QT board

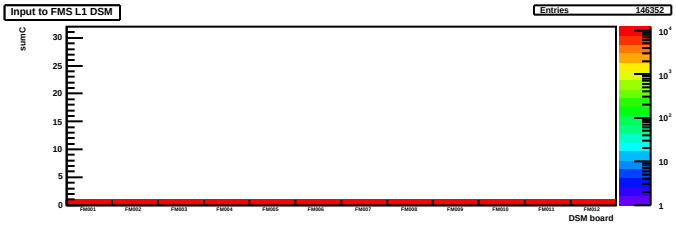

Input to FMS L0 DSM
Entries 97568
HT ADC - simulated
QT board

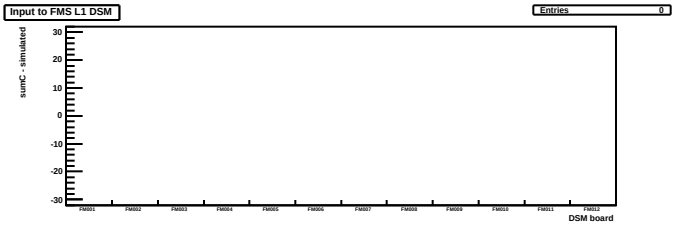

Input to FMS L0 DSM
Entries 585408
HT ID
QT board

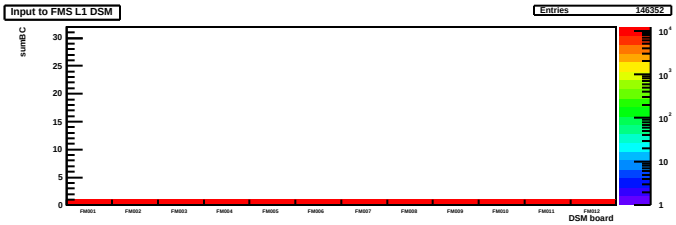

Input to FMS L0 DSM
Entries 97568
HT ID - simulated
QT board

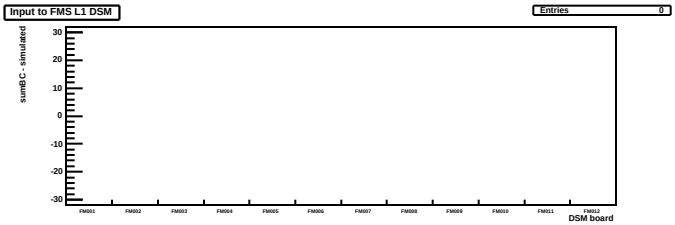

Input to FMS L1 DSM
Entries 146352
sumD
DSM board

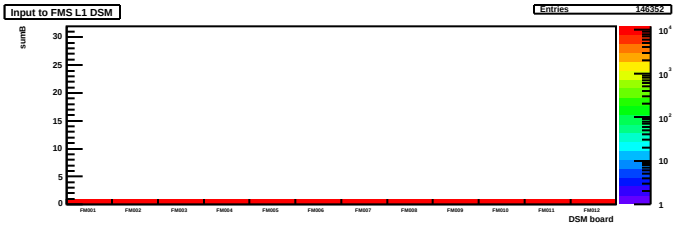

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

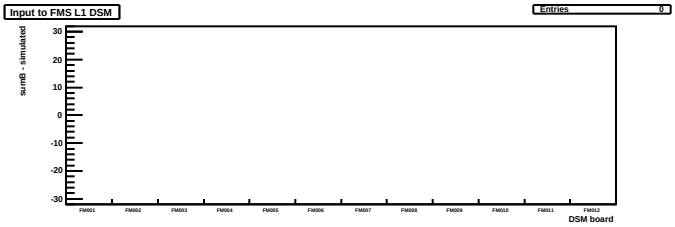

Input to FMS L1 DSM
Entries 146352
sumC
DSM board

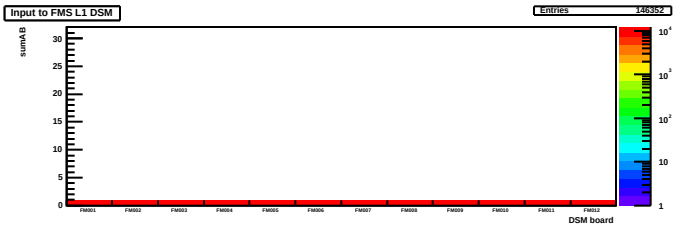

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

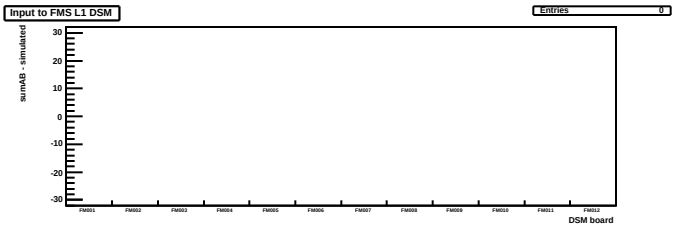

Input to FMS L1 DSM
Entries 146352
sumBC
DSM board

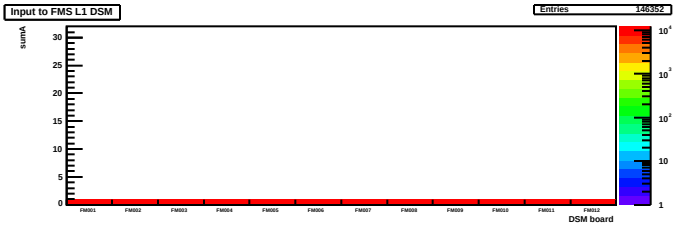

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

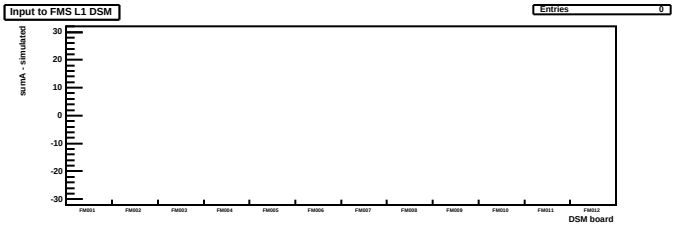

Input to FMS L1 DSM
Entries 146352
sumB
DSM board

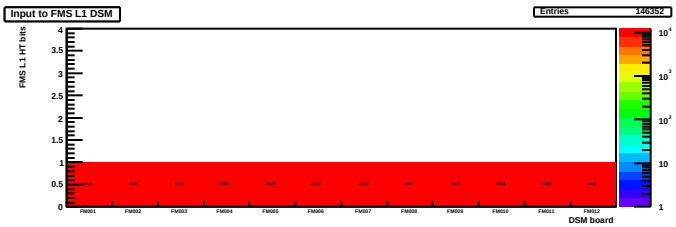

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

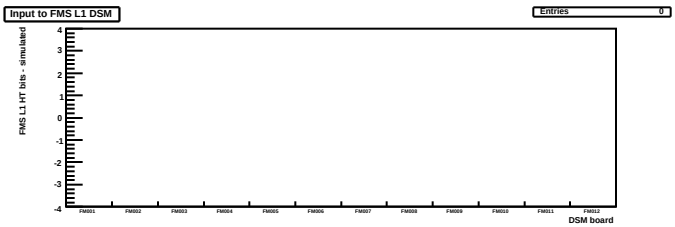

Input to FMS L1 DSM
Entries 146352
sumAB
DSM board

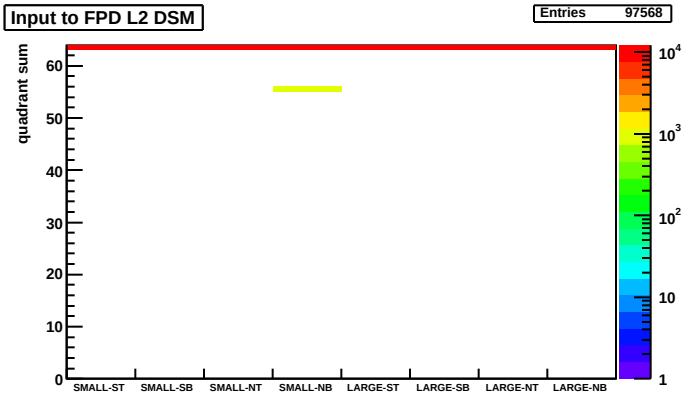

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

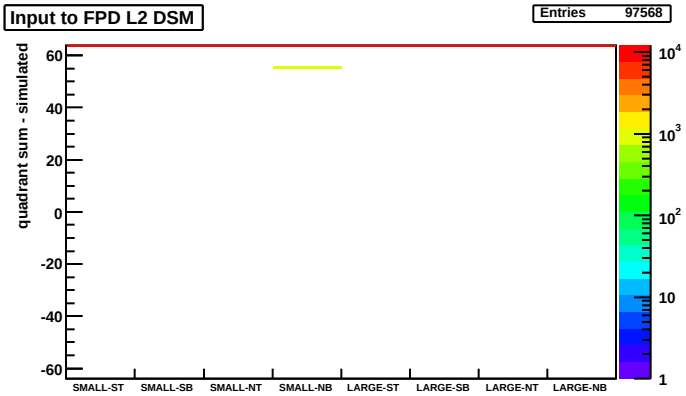

Input to FMS L1 DSM
Entries 146352
sumA
DSM board

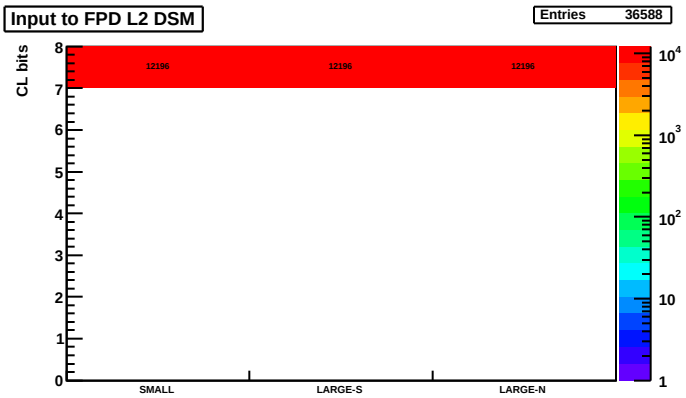

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

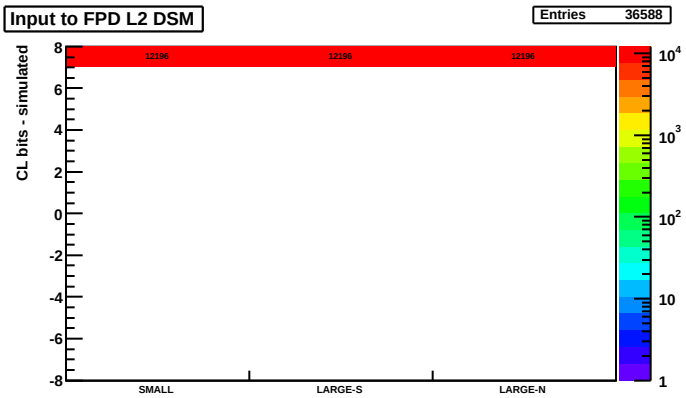

Input to FMS L1 DSM
Entries 146352
FMS L1 HT bits
DSM board

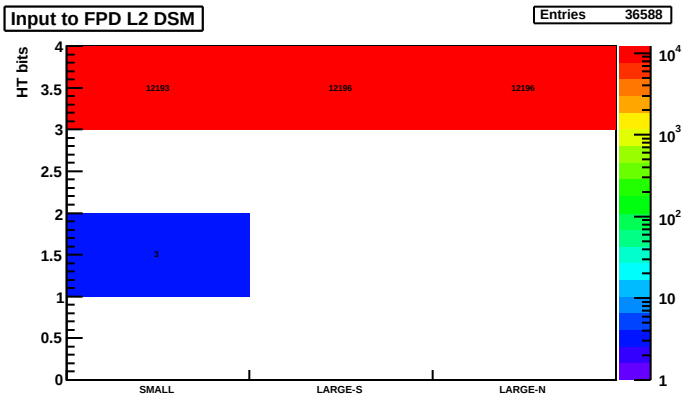

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

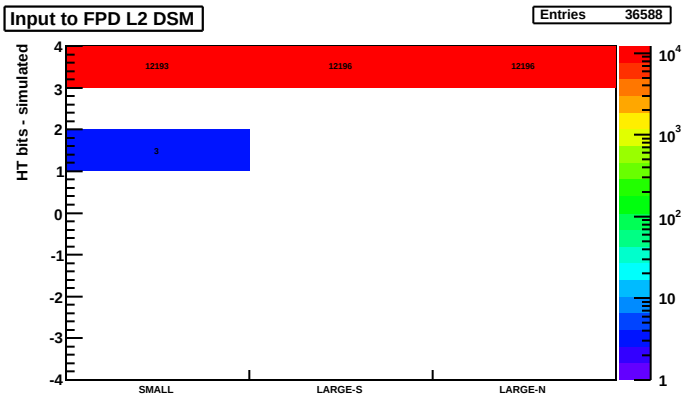

Input to FPD L2 DSM
Entries 97568
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

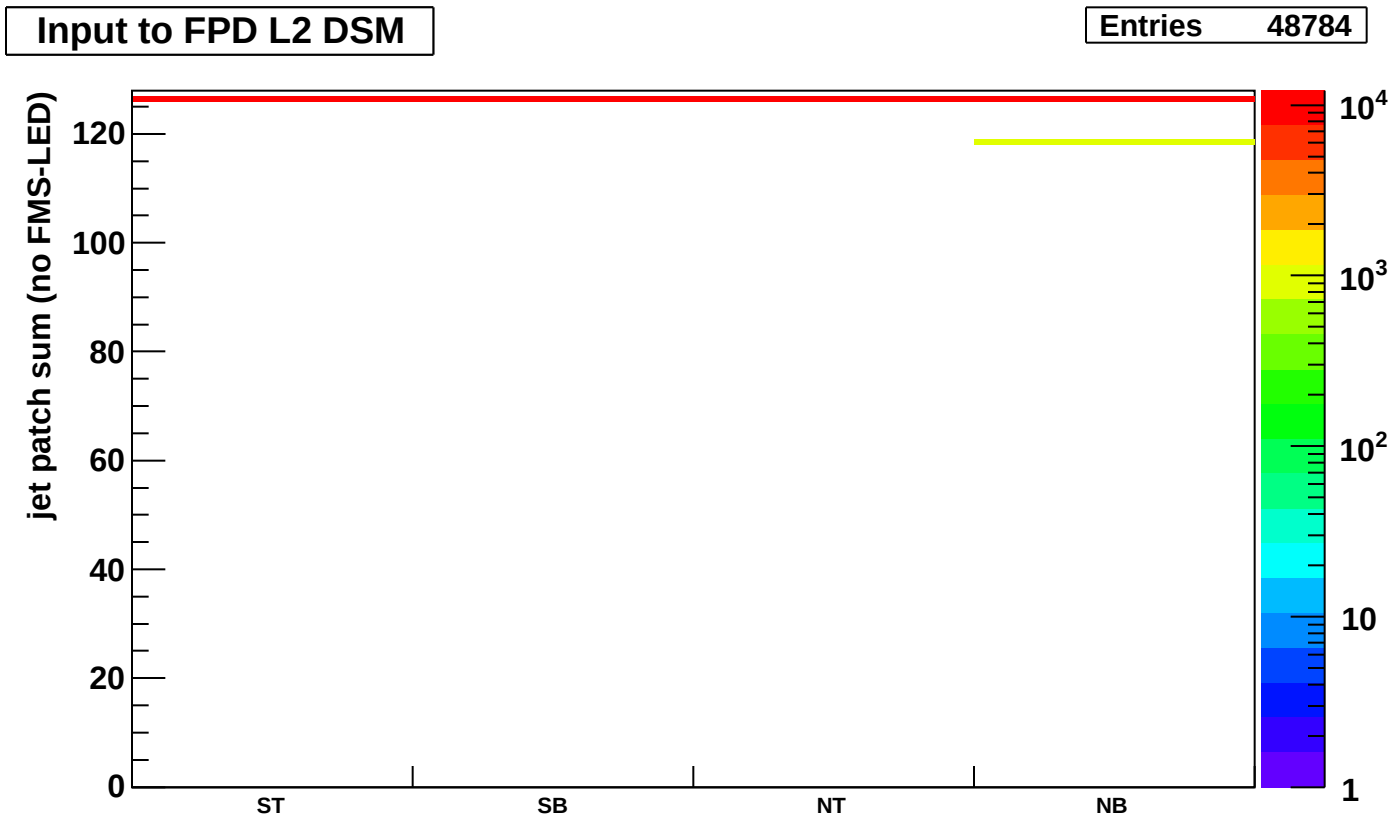

Input to FPD L2 DSM
Entries 97568
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

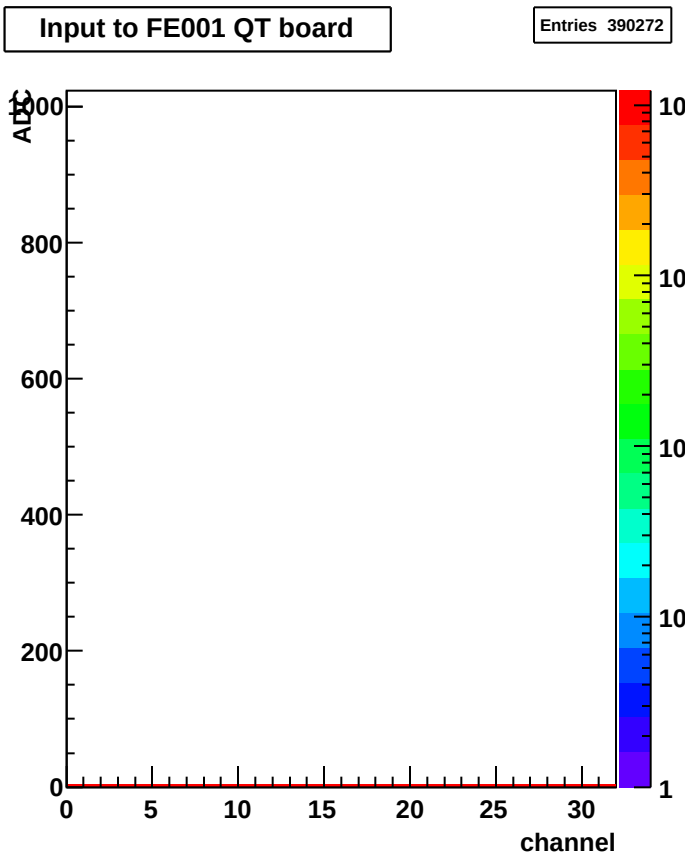

Input to FPD L2 DSM
Entries 36588
CL bits
12196
12196
12196
SMALL
LARGE-S
LARGE-N

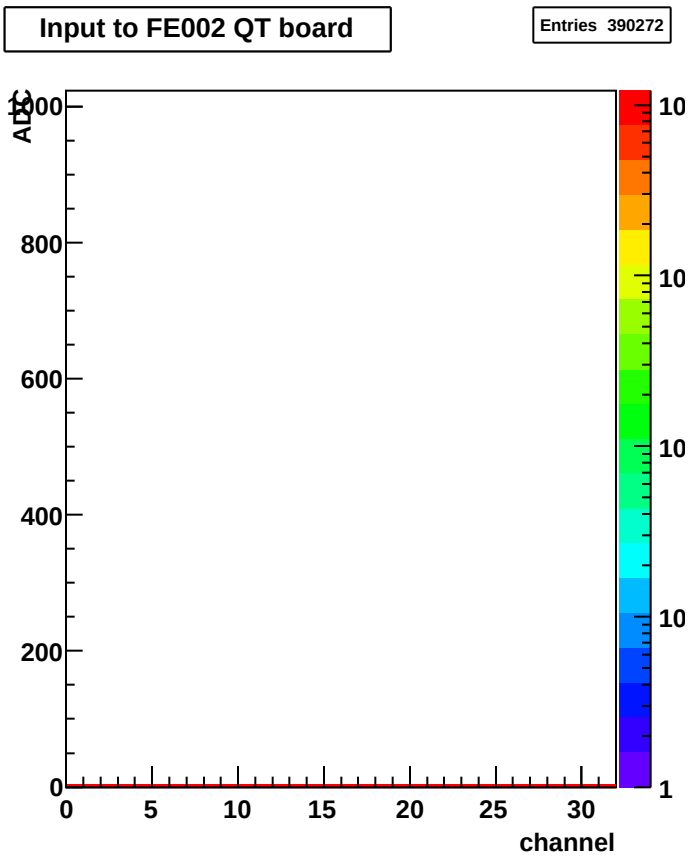

Input to FPD L2 DSM
Entries 36588
CL bits - simulated
12196
12196
12196
SMALL
LARGE-S
LARGE-N

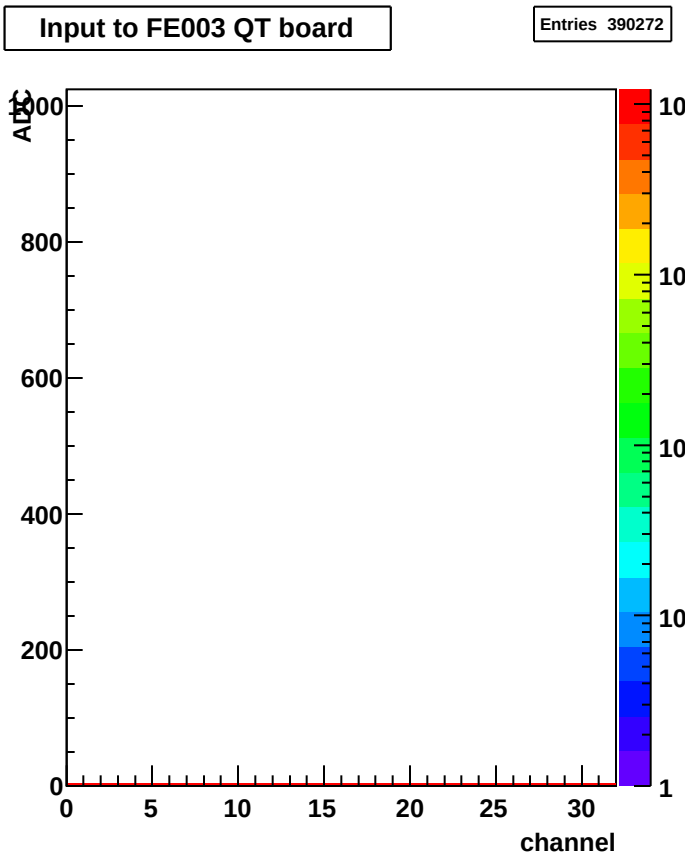

Input to FPD L2 DSM
Entries 36588
HT bits
12193
12196
12196
3
SMALL
LARGE-S
LARGE-N

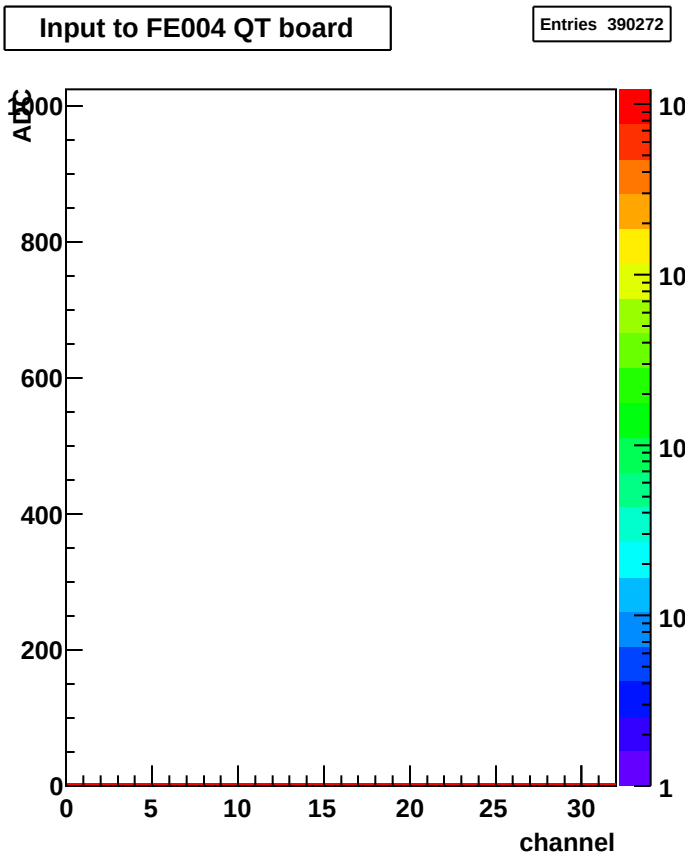

Input to FPD L2 DSM
Entries 36588
HT bits - simulated
12193
12196
12196
3
SMALL
LARGE-S
LARGE-N

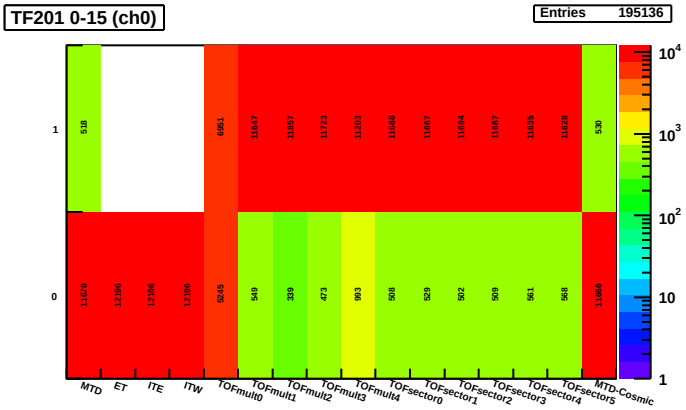

Input to FPD L2 DSM
Entries 48784
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

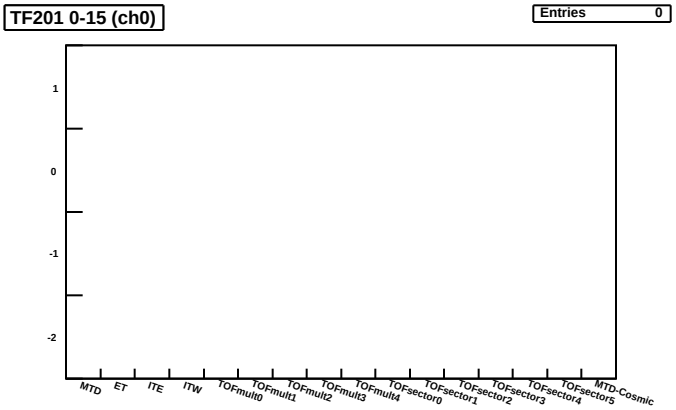

Input to FE001 QT board
Entries 390272
ADC
channel

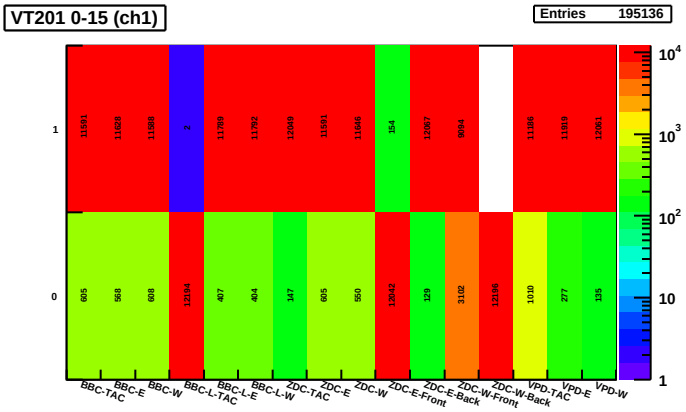

Input to FE002 QT board
Entries 390272
ADC
channel

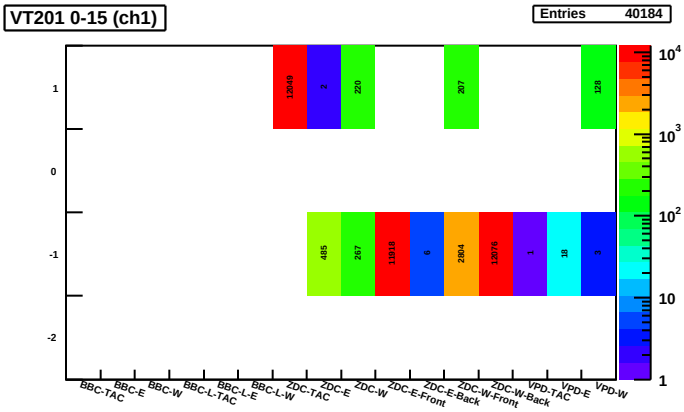

Input to FE003 QT board
Entries 390272
ADC
channel

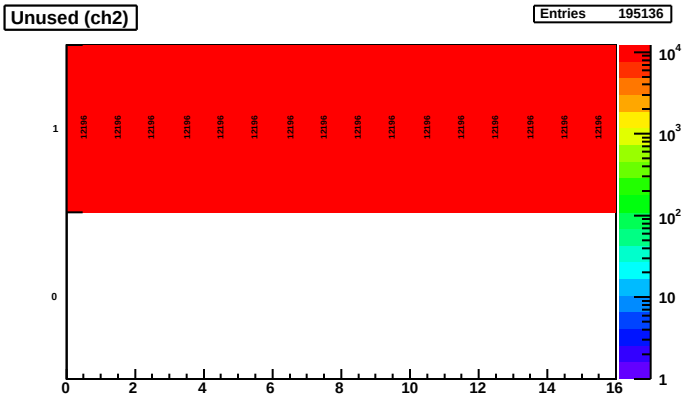

Input to FE004 QT board
Entries 390272
ADC
channel

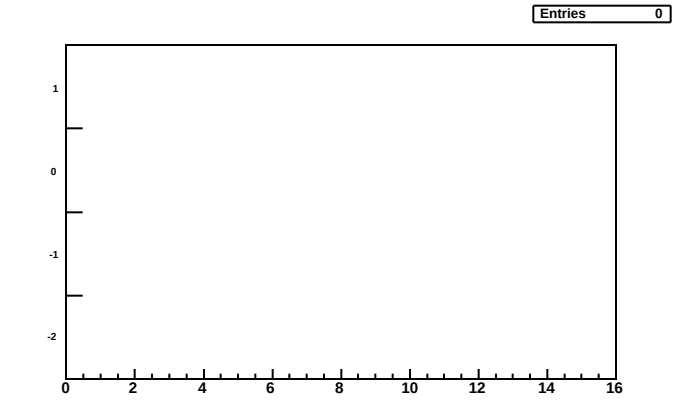

TF201 0-15 (ch0)
Entries 195136
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

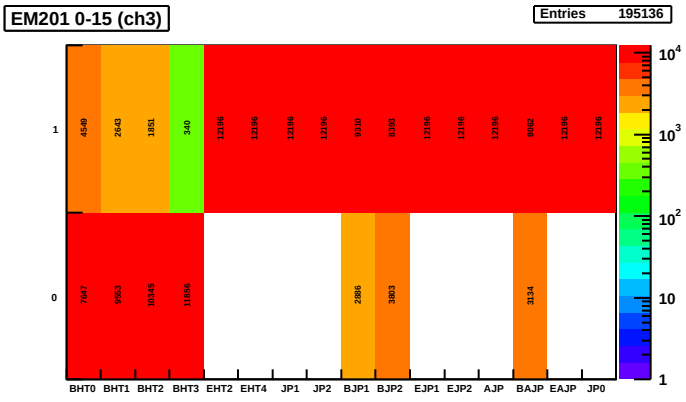

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

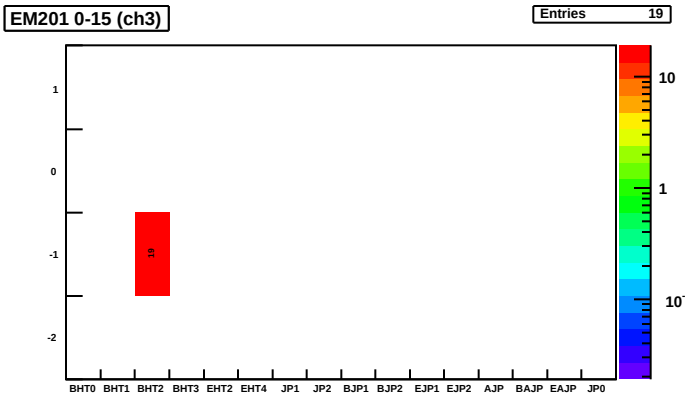

VT201 0-15 (ch1)
Entries 195136
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 40184
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

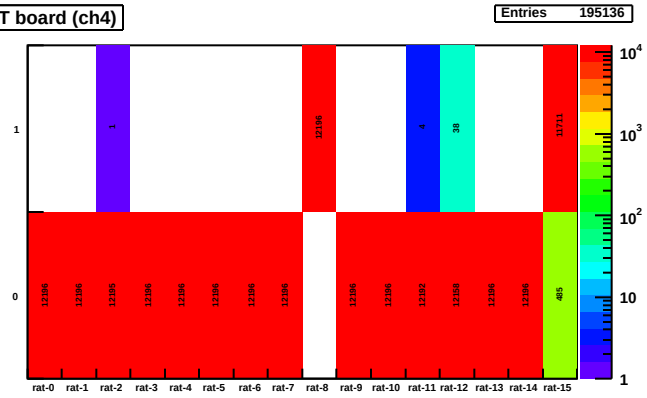

Unused (ch2)
Entries 195136

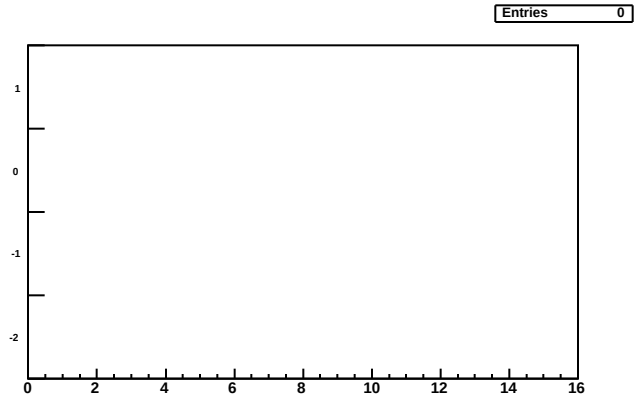

Entries 0


EM201 0-15 (ch3)
Entries 195136
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

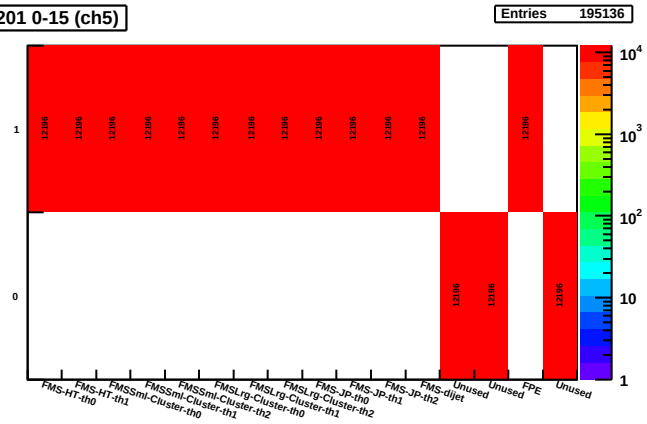

EM201 0-15 (ch3)
Entries 19
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

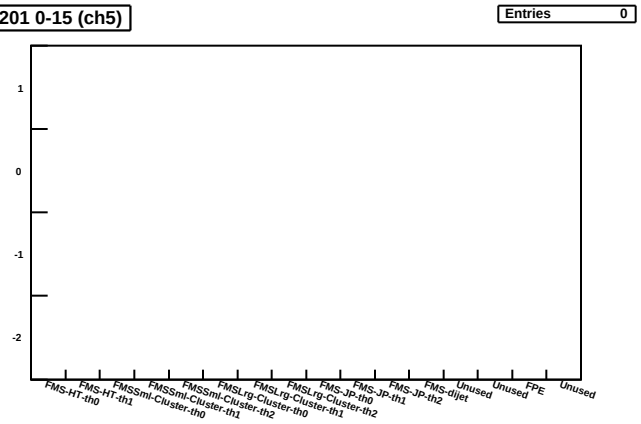




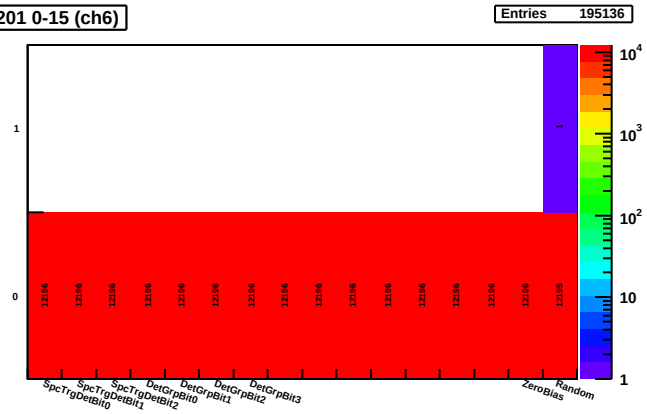
FP201 0-15 (ch5)

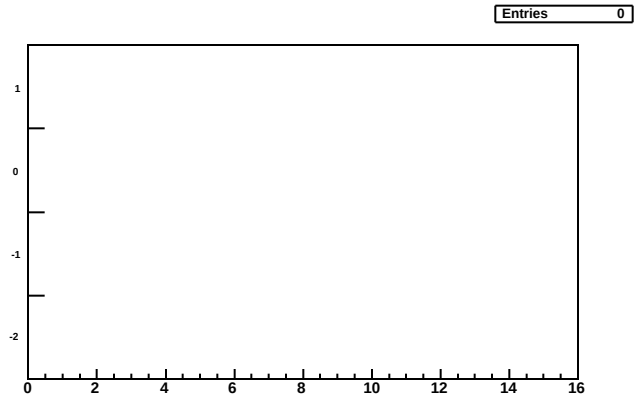
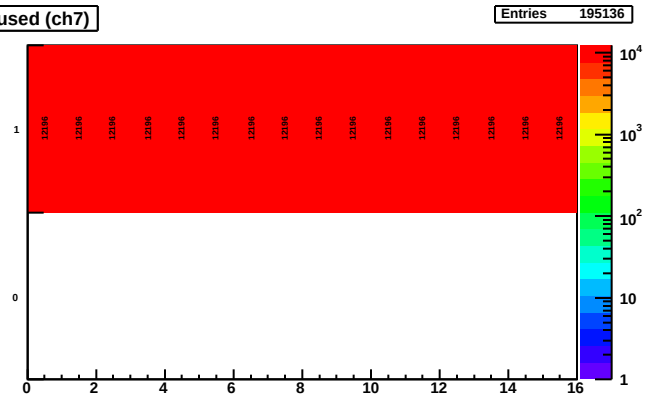
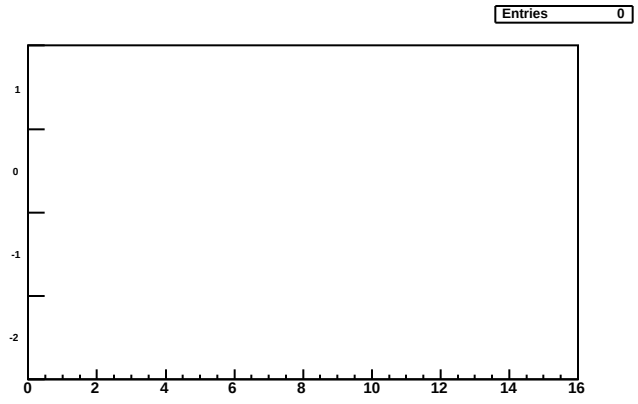


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)