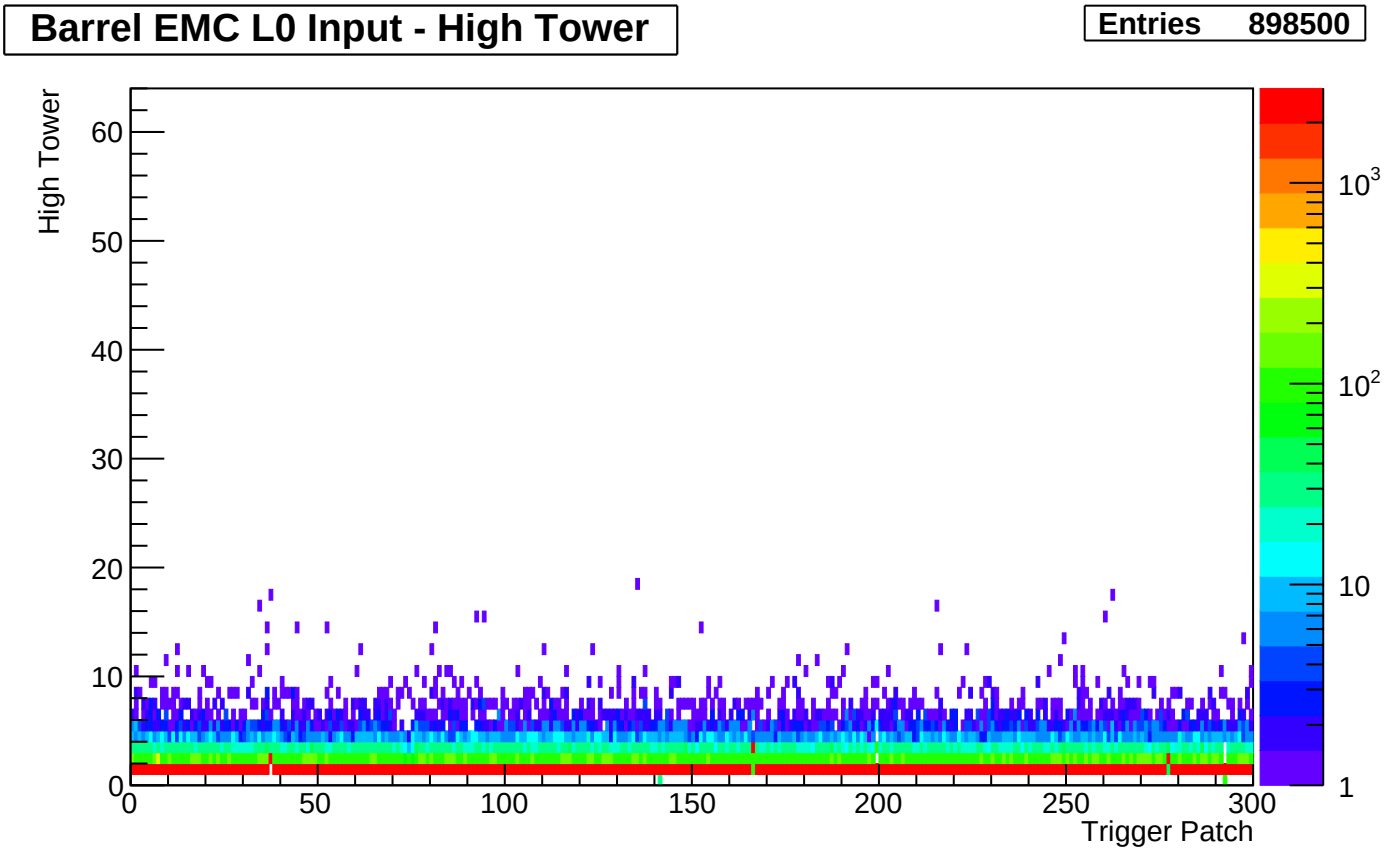
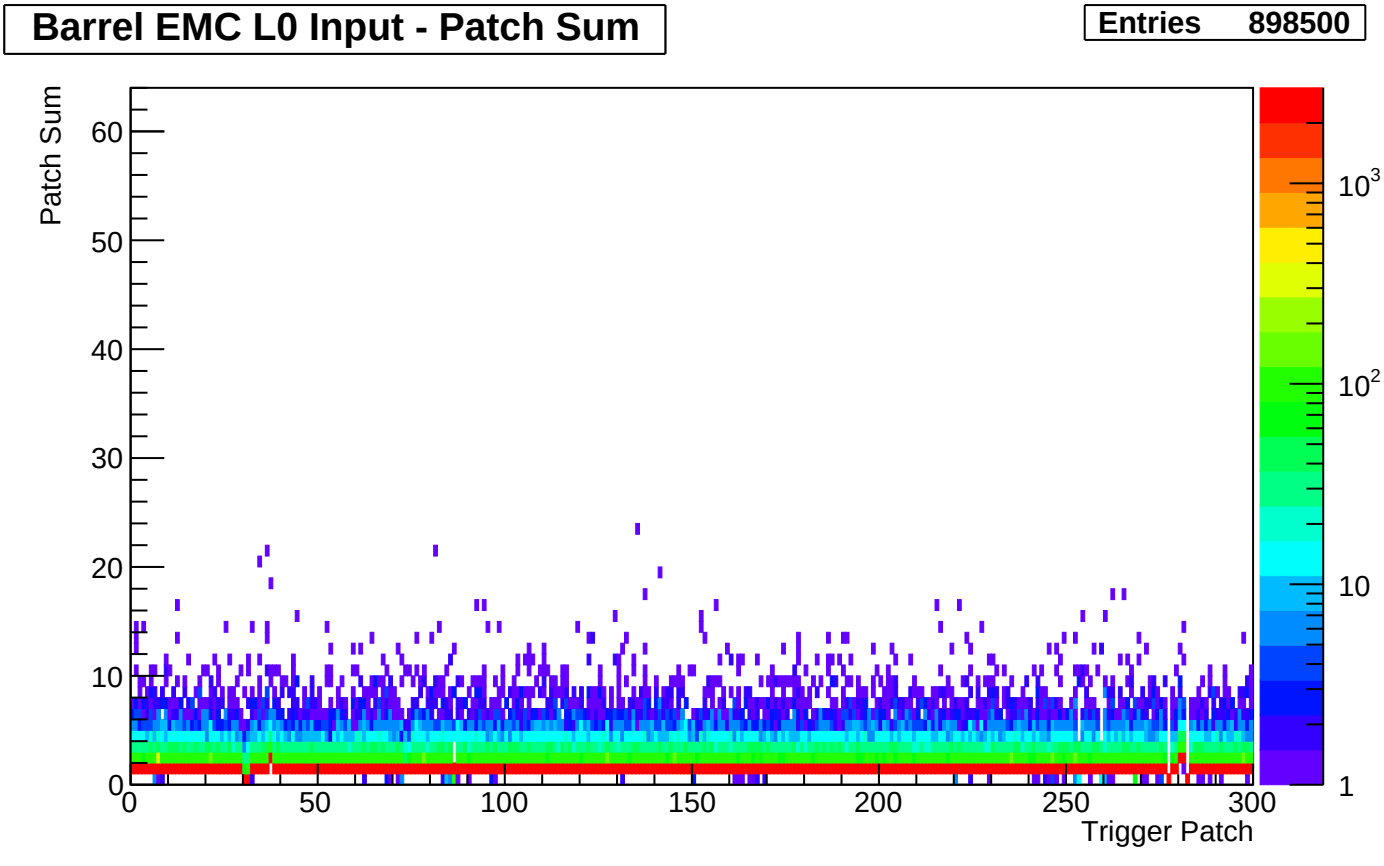
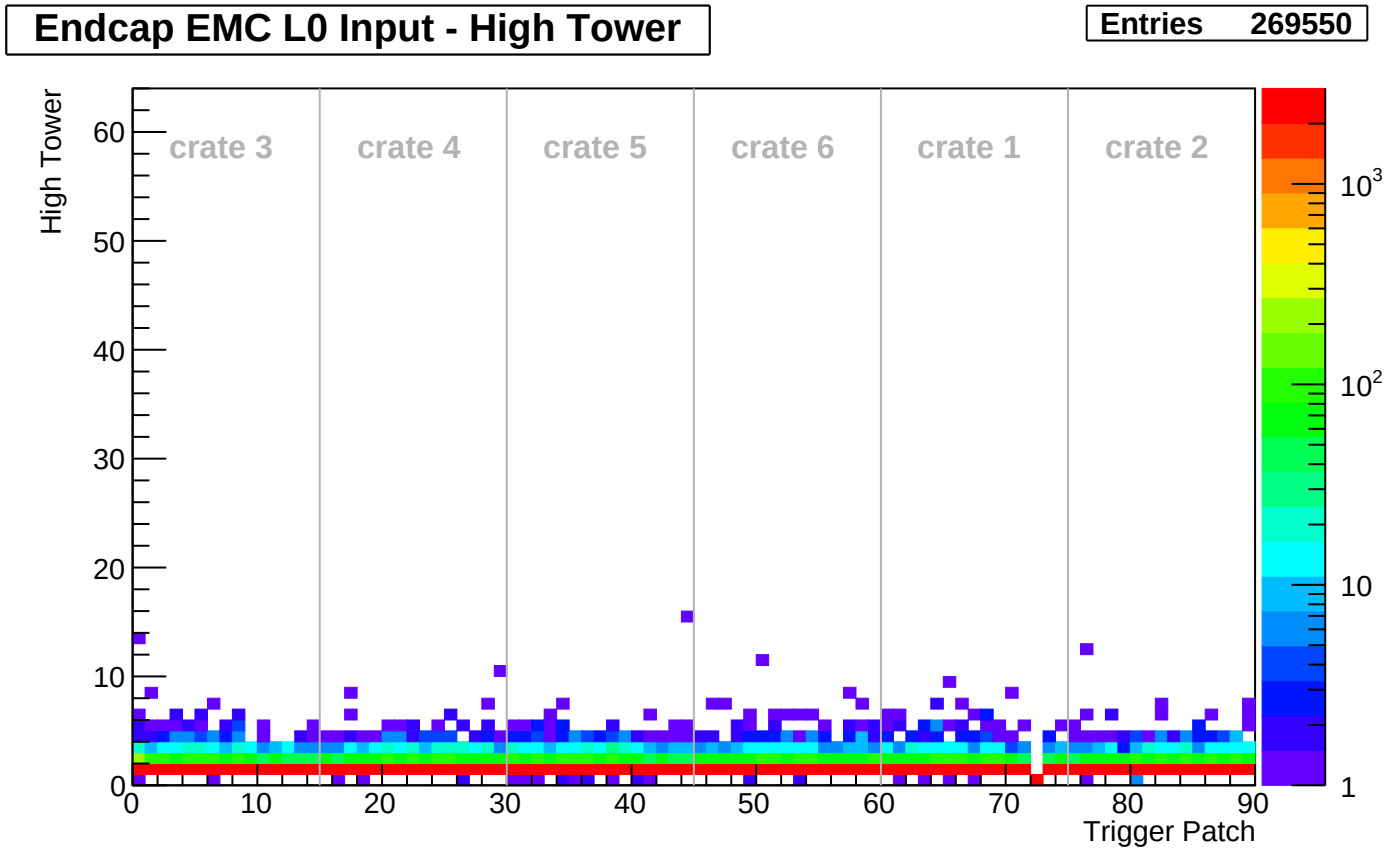
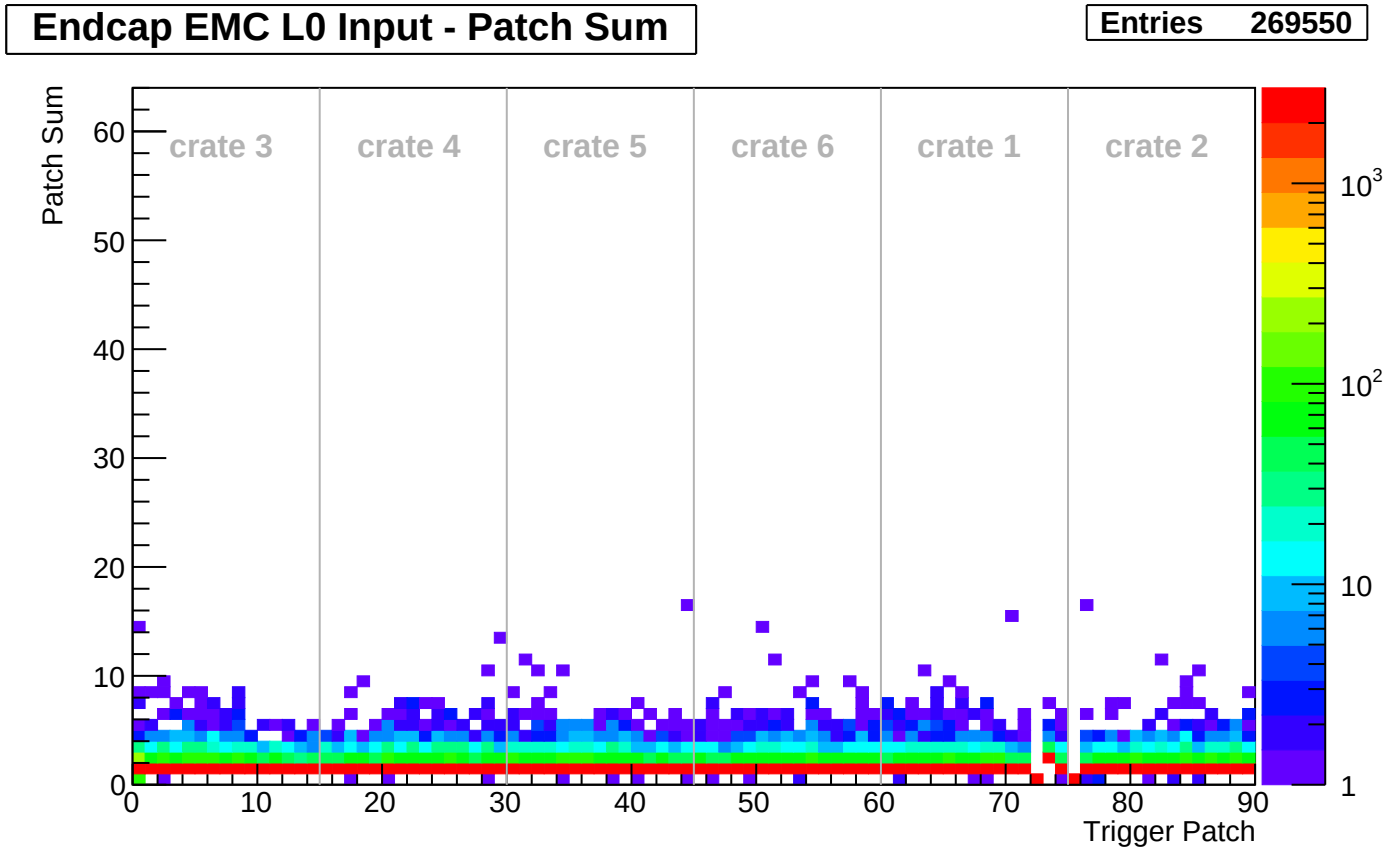
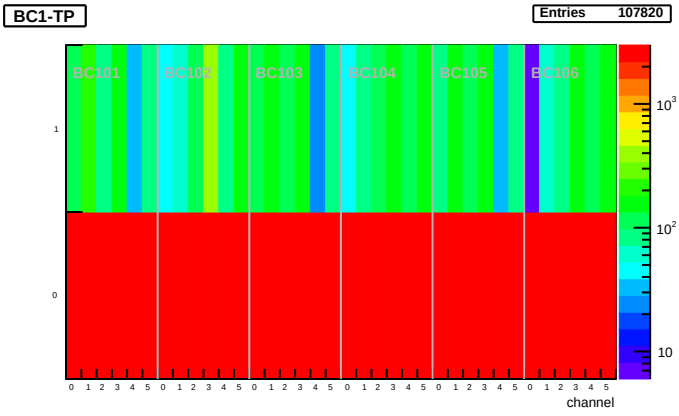
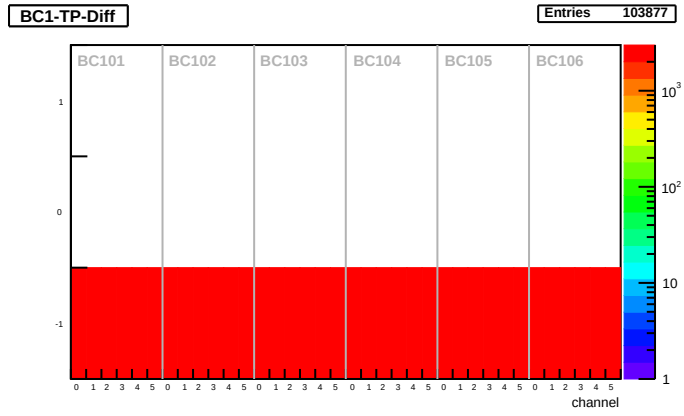

Barrel EMC L0 Input - High Tower
Entries 898500
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$

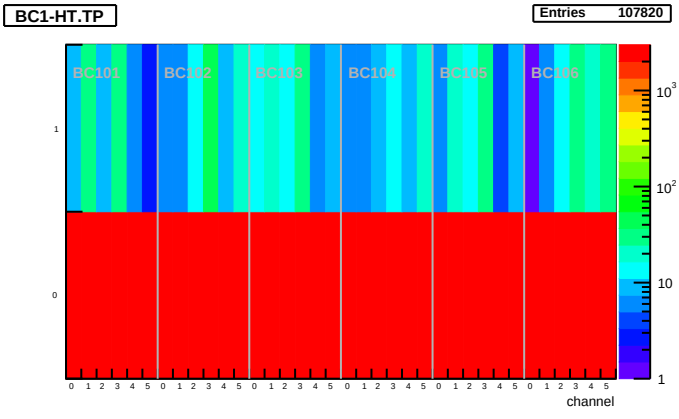

Barrel EMC L0 Input - Patch Sum
Entries 898500
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$

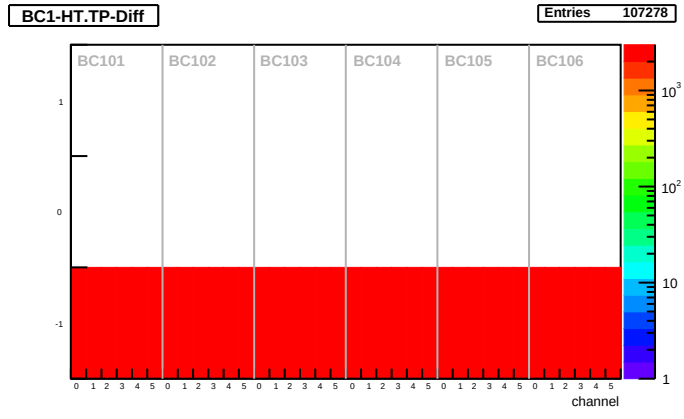

Endcap EMC L0 Input - High Tower
Entries 269550
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

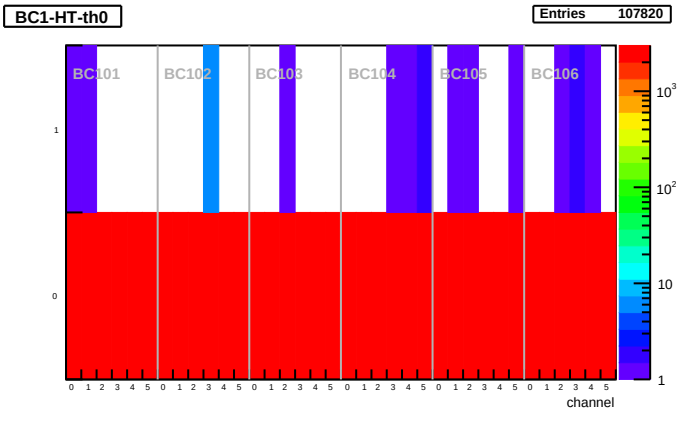

Endcap EMC L0 Input - Patch Sum
Entries 269550
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

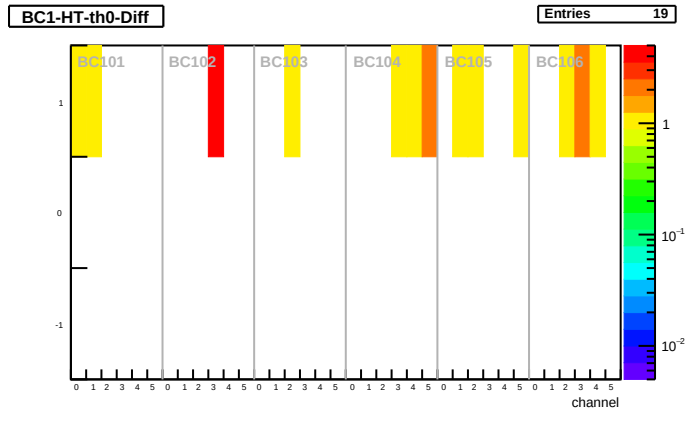

BC1-TP
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

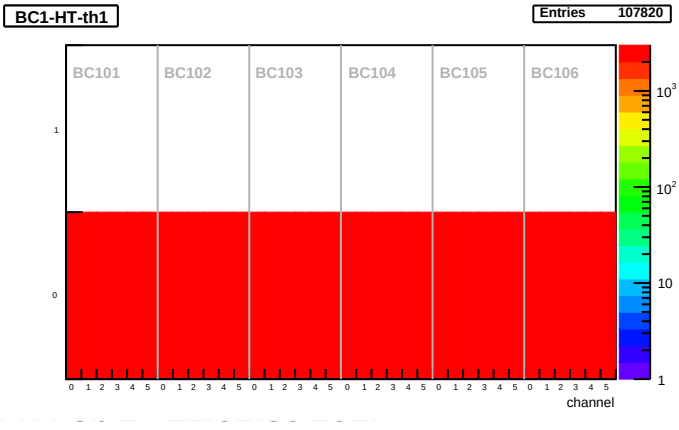

BC1-TP-Diff
Entries 103877
BC101
BC102
BC103
BC104
BC105
BC106
channel

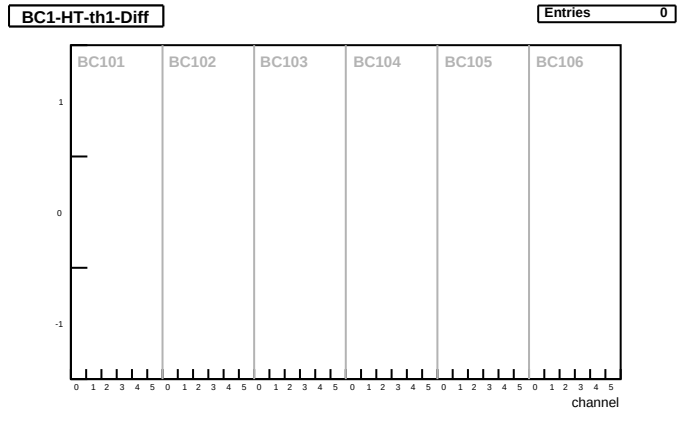

BC1-HT.TP
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

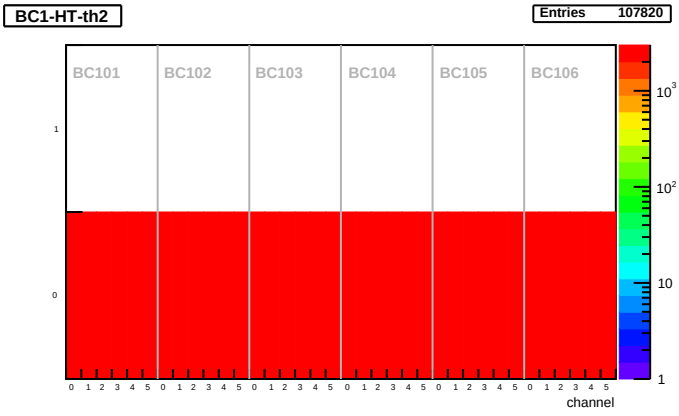

BC1-HT.TP-Diff
Entries 107278
BC101
BC102
BC103
BC104
BC105
BC106
channel

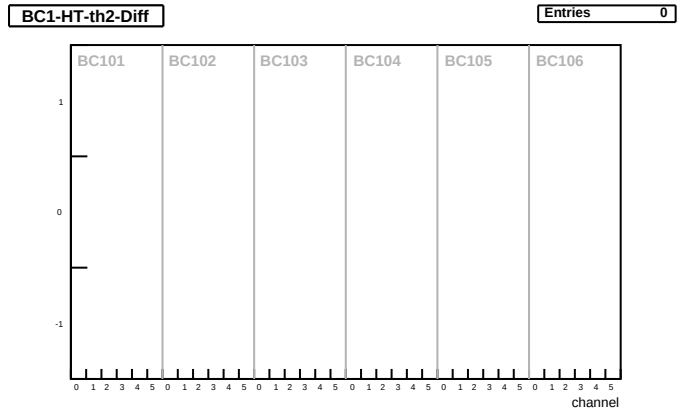

BC1-HT-th0
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

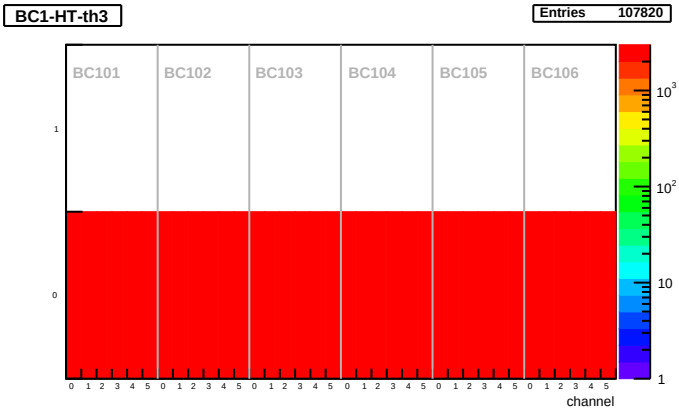

BC1-HT-th0-Diff
Entries 19
BC101
BC102
BC103
BC104
BC105
BC106
channel

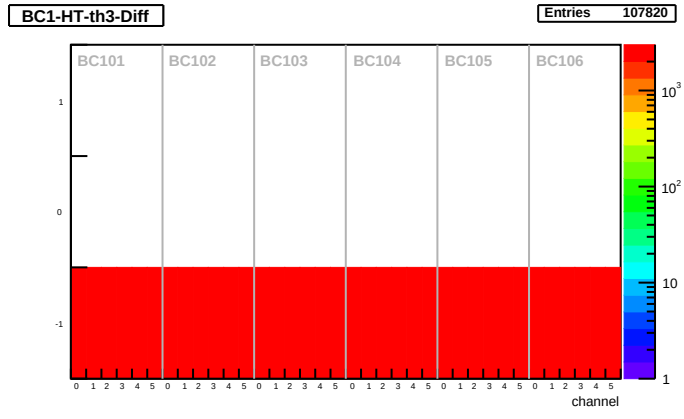

BC1-HT-th1
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

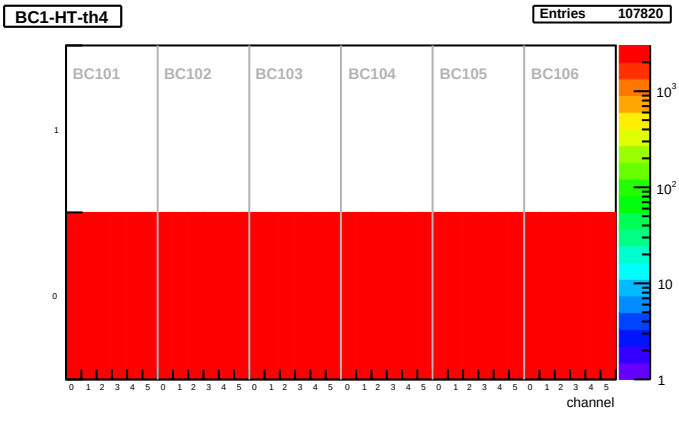

BC1-HT-th1-Diff
Entries 0
BC101
BC102
BC103
BC104
BC105
BC106
channel

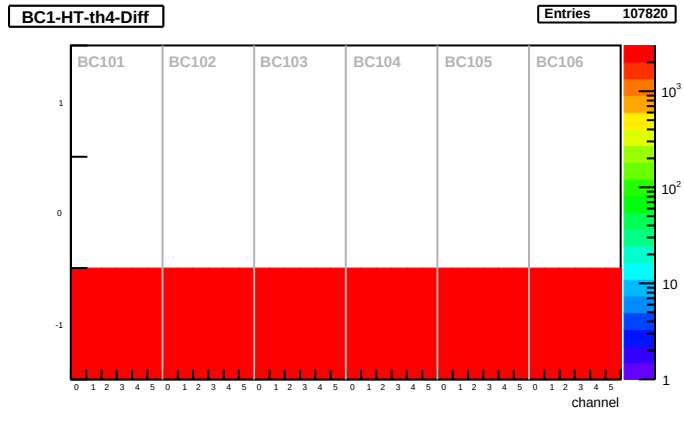

BC1-HT-th2
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

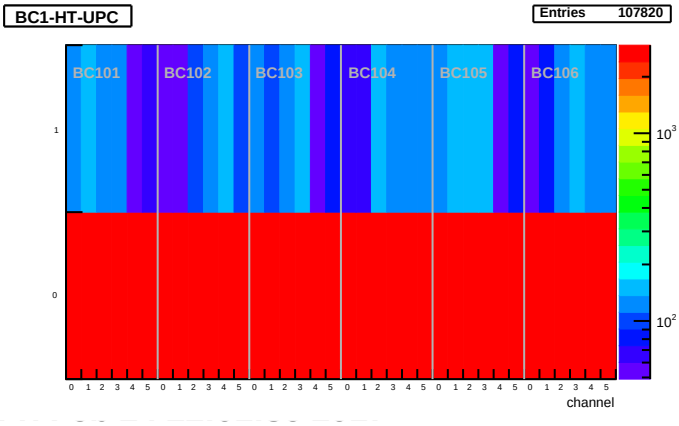

BC1-HT-th2-Diff
Entries 0
BC101
BC102
BC103
BC104
BC105
BC106
channel

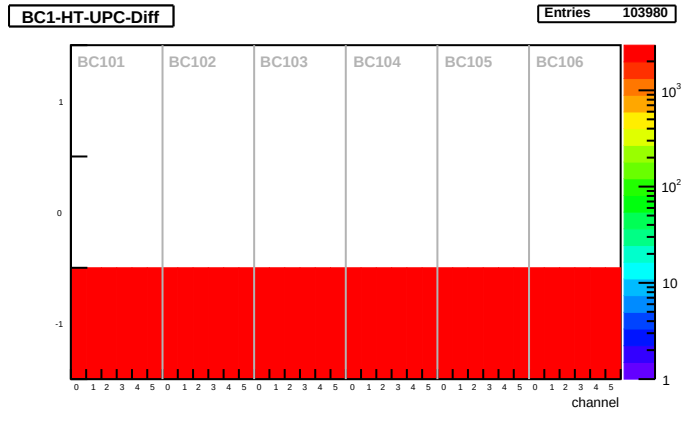

BC1-HT-th3
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

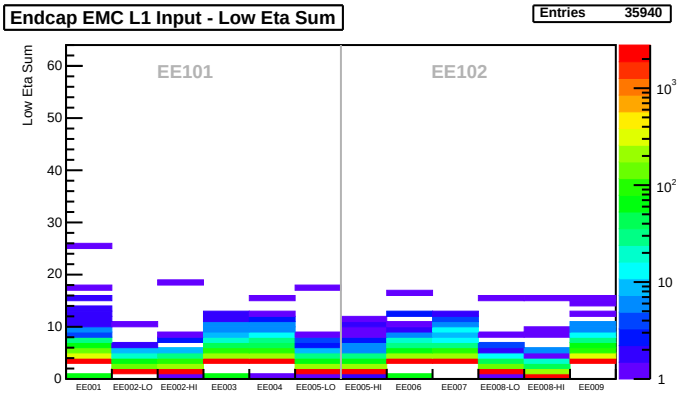

BC1-HT-th3-Diff
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

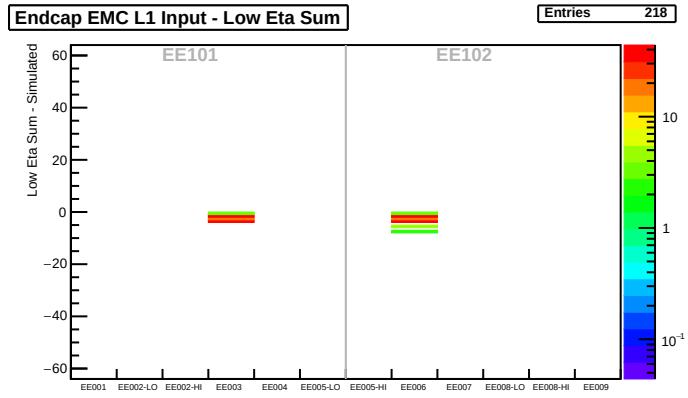

BC1-HT-th4
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

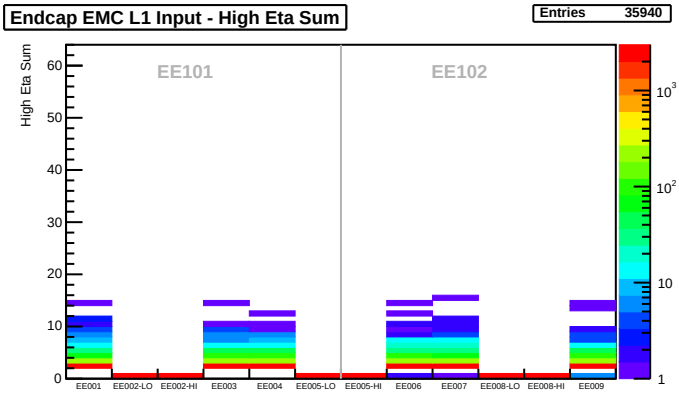

BC1-HT-th4-Diff
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

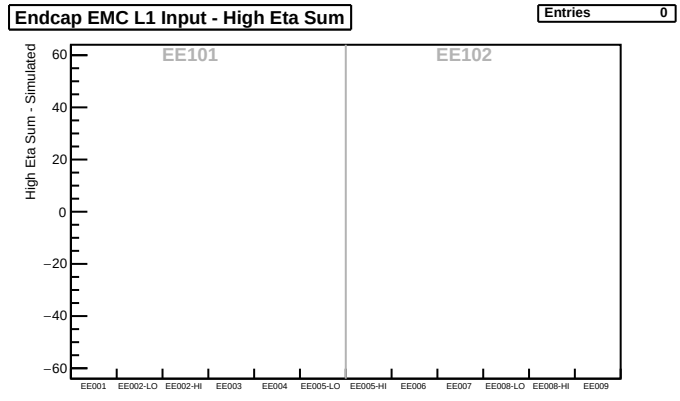

BC1-HT-UPC
Entries 107820
BC101
BC102
BC103
BC104
BC105
BC106
channel

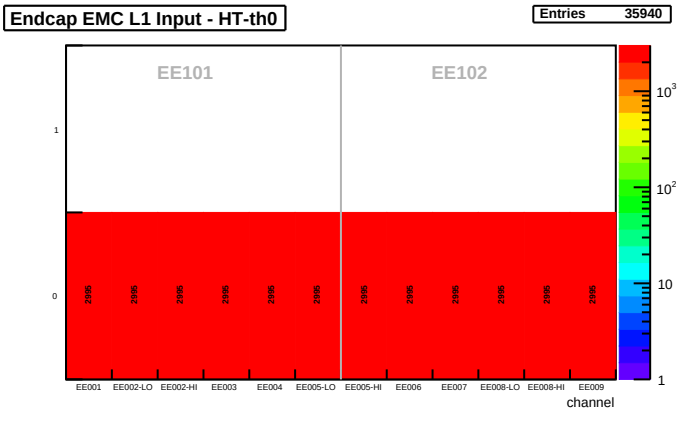

BC1-HT-UPC-Diff
Entries 103980
BC101
BC102
BC103
BC104
BC105
BC106
channel

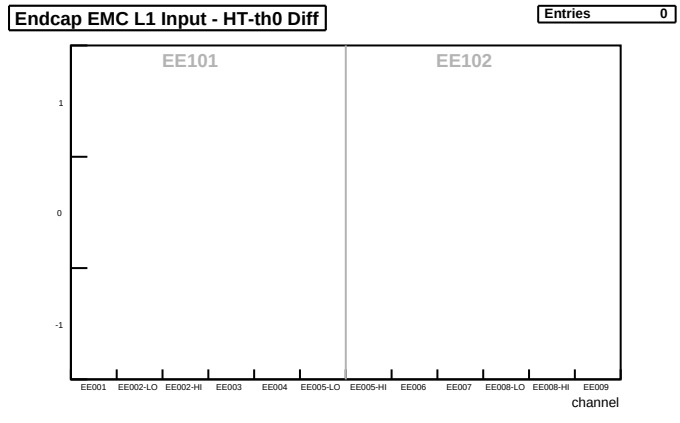

Endcap EMC L1 Input - Low Eta Sum
Entries 35940
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

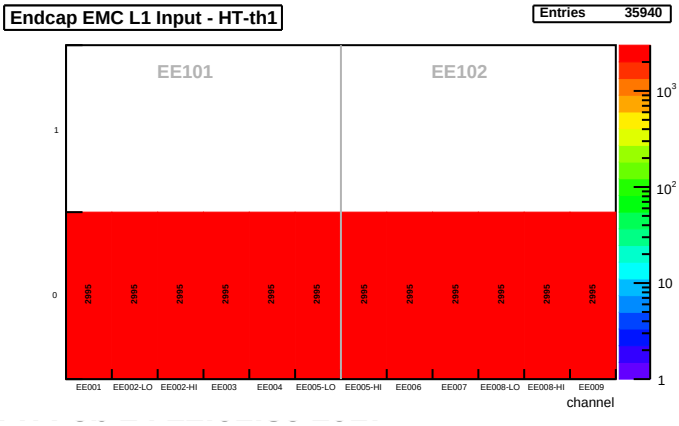

Endcap EMC L1 Input - Low Eta Sum
Entries 218
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

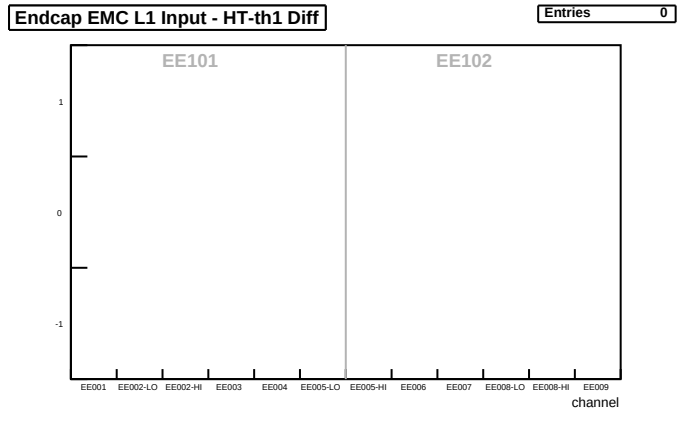

Endcap EMC L1 Input - High Eta Sum
Entries 35940
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

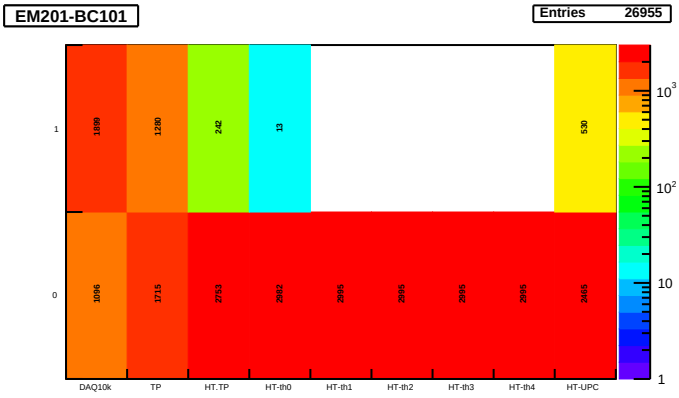

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

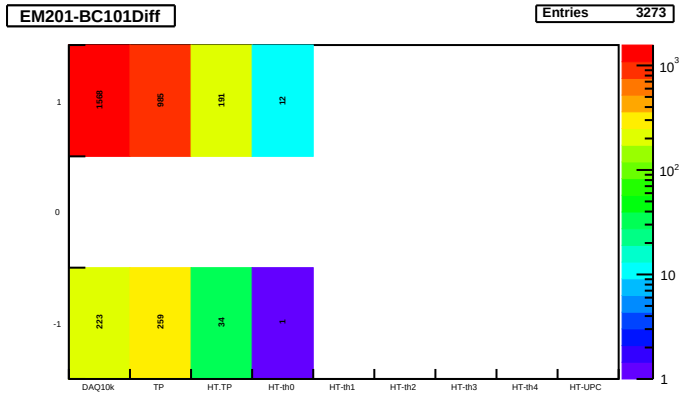

Endcap EMC L1 Input - HT-th0
Entries 35940
EE101
EE102
2995
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
channel

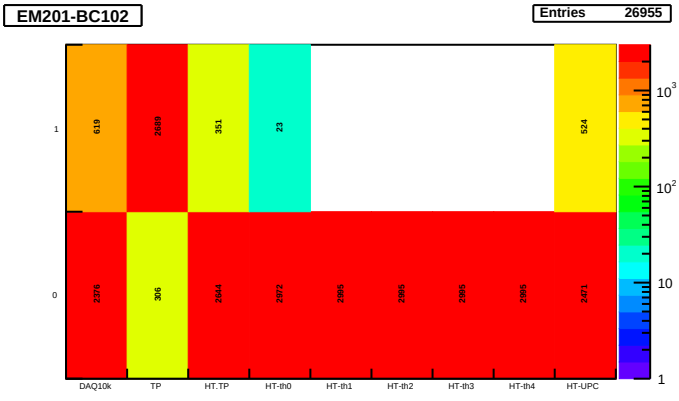

Endcap EMC L1 Input - HT-th0 Diff
Entries 0
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
channel

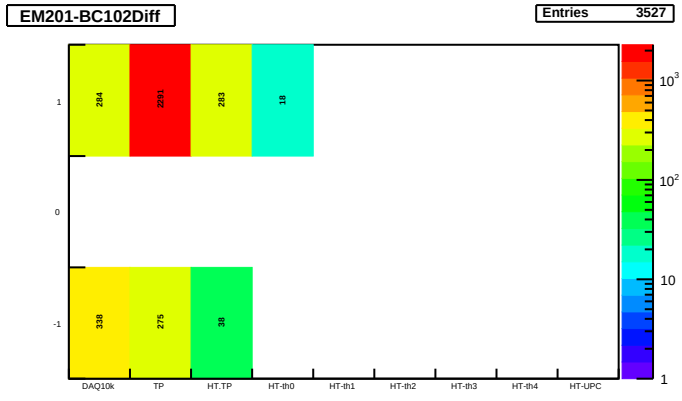

Endcap EMC L1 Input - HT-th1
Entries 35940
EE101
EE102
2995
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
channel

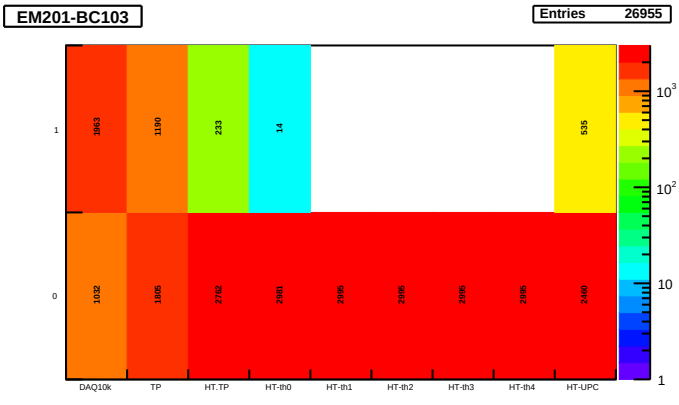

Endcap EMC L1 Input - HT-th1 Diff
Entries 0
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
channel

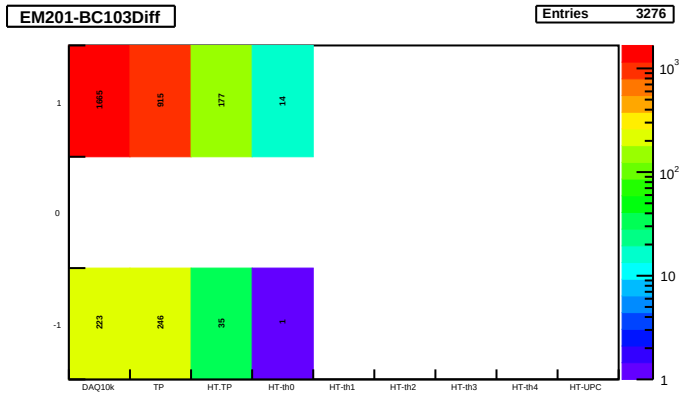

EM201-BC101
Entries 26955
1 1889 1280 242 13 530
0 1096 1715 2753 2932 2995 2995 2995 2995 2465
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3

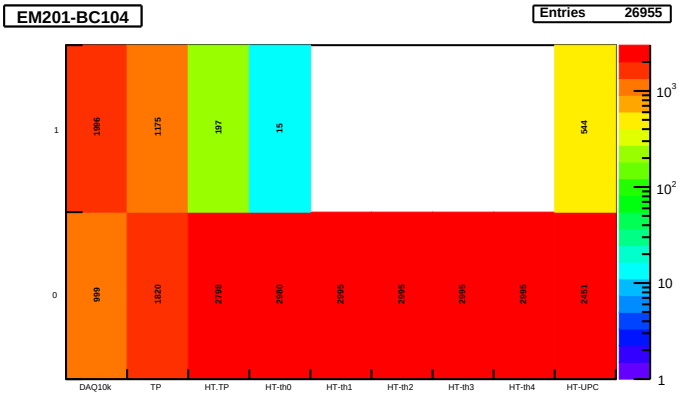

EM201-BC101Diff
Entries 3273
1 1568 985 191 12
0
-1 223 259 34 1
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3

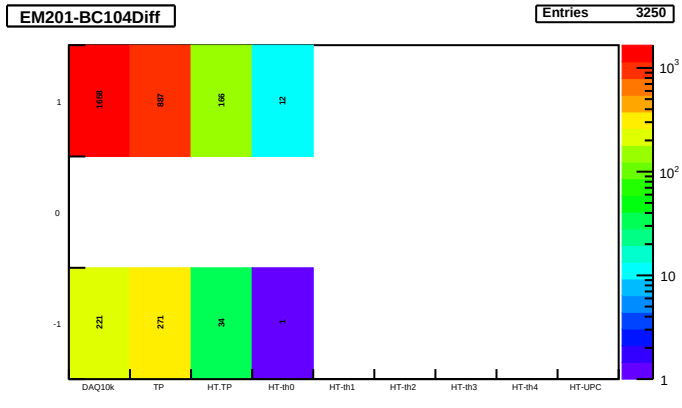

EM201-BC102
Entries 26955
1 619 2689 351 23 524
0 2376 306 2644 2972 2995 2995 2995 2995 2471
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3


EM201-BC102Diff
Entries 3527
1 284 2291 283 18
0
-1 338 275 38
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3

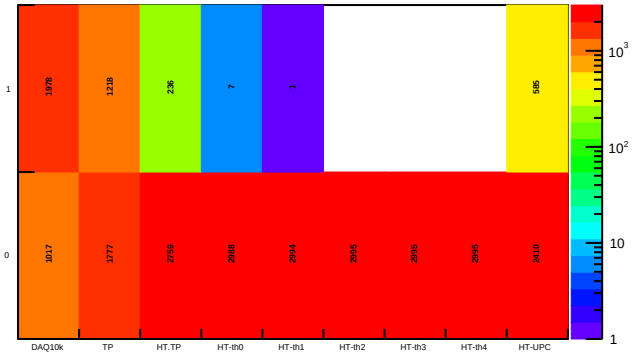

EM201-BC103
Entries 26955
1 1963 1190 233 14 535
0 1032 1805 2762 2981 2995 2995 2995 2995 2460
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3


EM201-BC103Diff
Entries 3276
1 1065 915 177 14
0
-1 223 246 35 1
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3

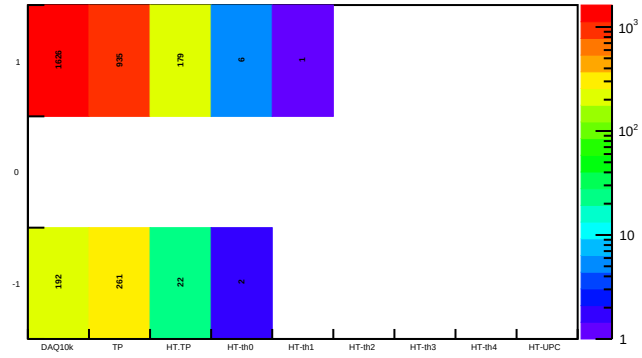

EM201-BC104
Entries 26955
1 1396 1175 197 15 544
0 999 1820 2798 2980 2995 2995 2995 2995 2451
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3


EM201-BC104Diff
Entries 3250
1 1658 887 166 12
0
-1 221 271 34 1
DAQ10k TP HT.TP HT-th0 HT-th1 HT-th2 HT-th3 HT-th4 HT-UPC
1 10 10^2 10^3

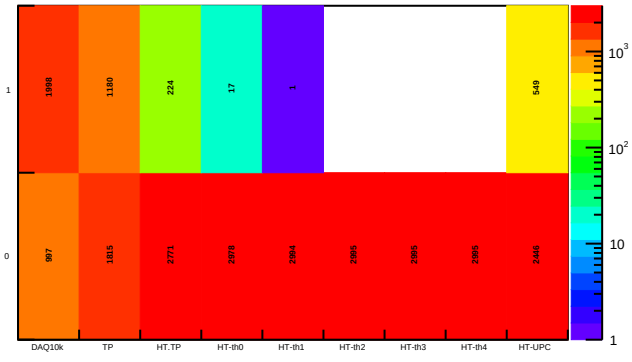
**EM201-BC105** Entries 26955



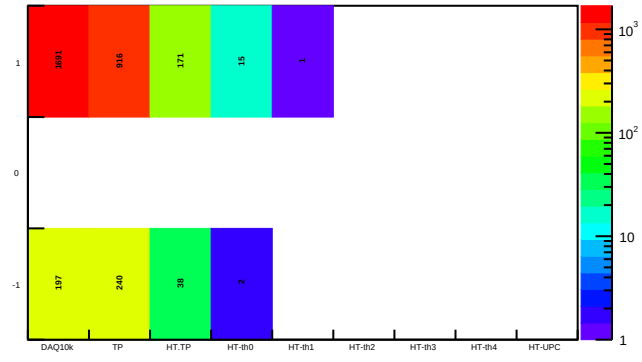

**EM201-BC105Diff** Entries 3224



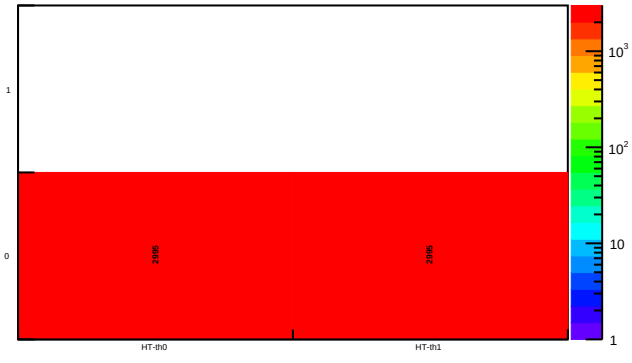

**EM201-BC106** Entries 26955



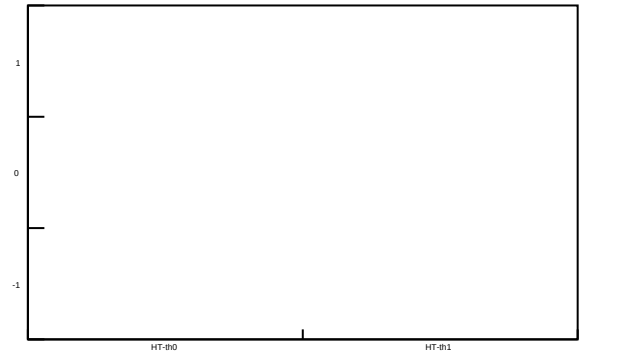

**EM201-BC106Diff** Entries 3271



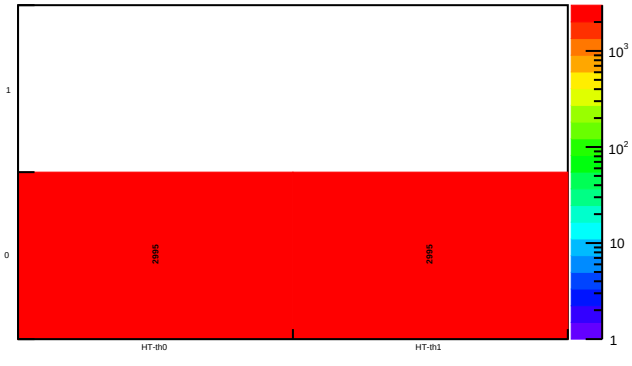

**EM201-EE101** Entries 5990



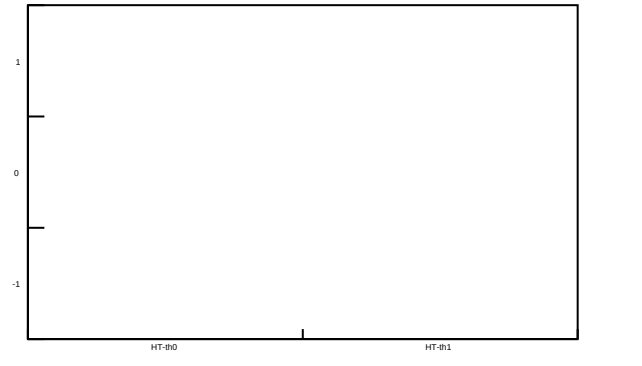

**EM201-EE101Diff** Entries 0

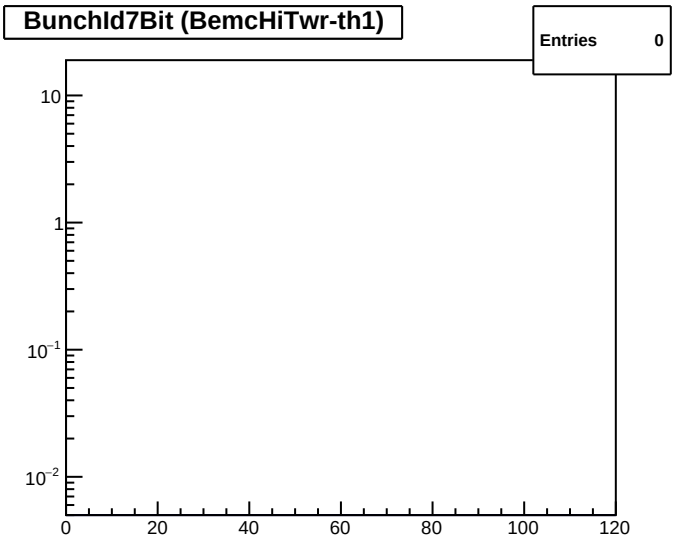


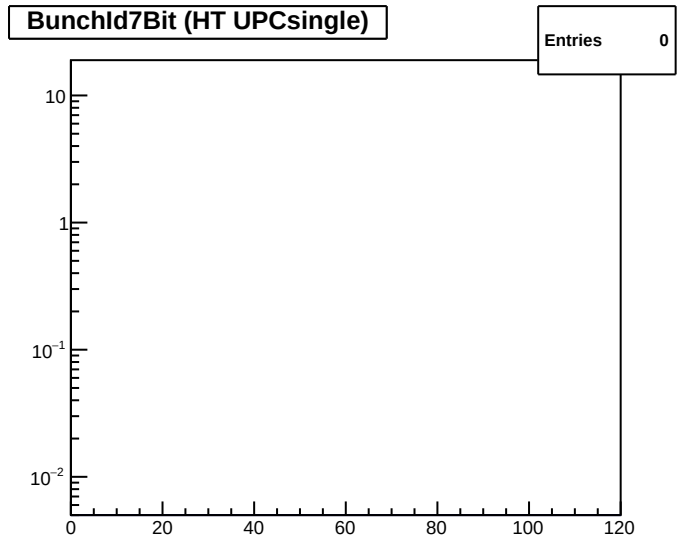

**EM201-EE102** Entries 5990

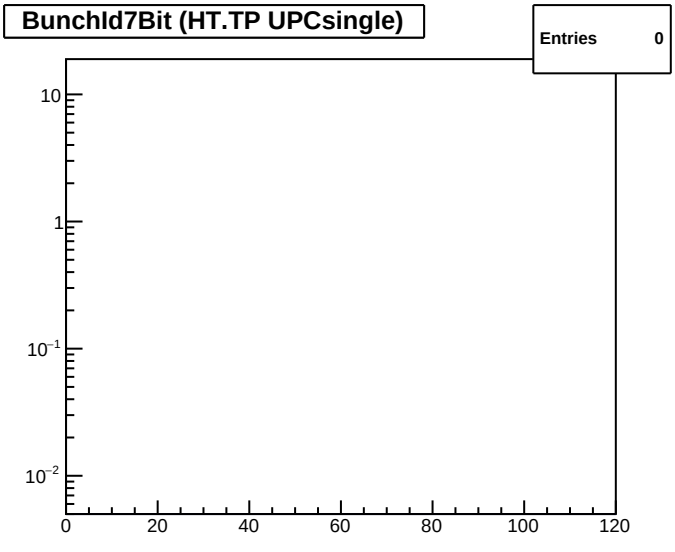


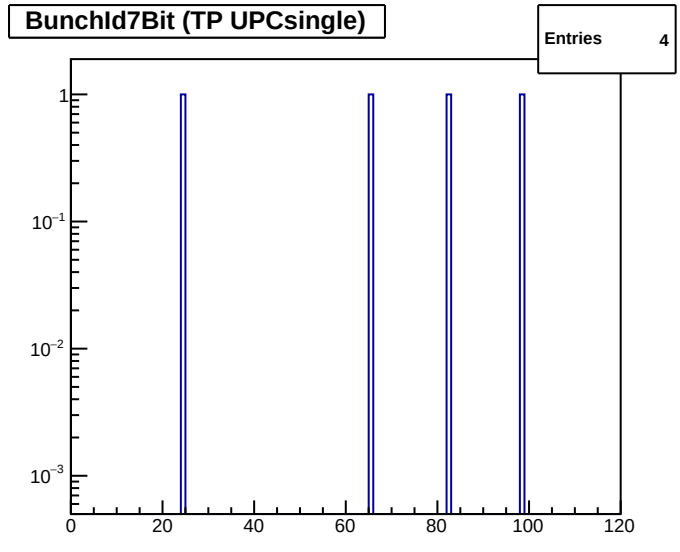

**EM201-EE102Diff** Entries 0

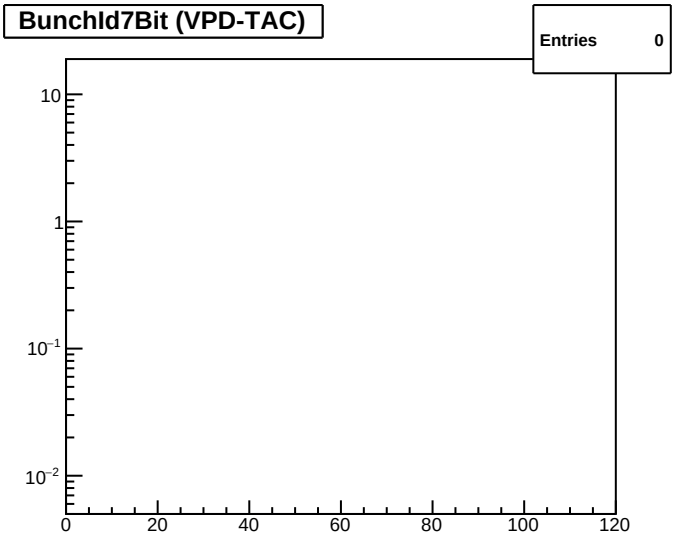


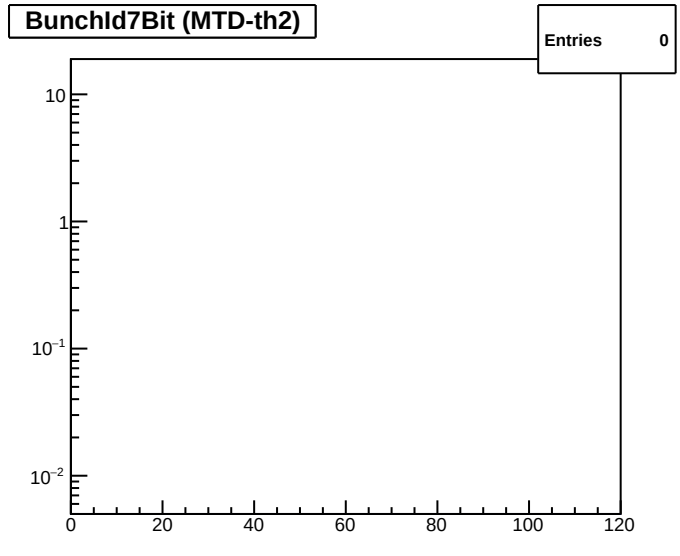

BunchId7Bit (BemcHiTwr-th1)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

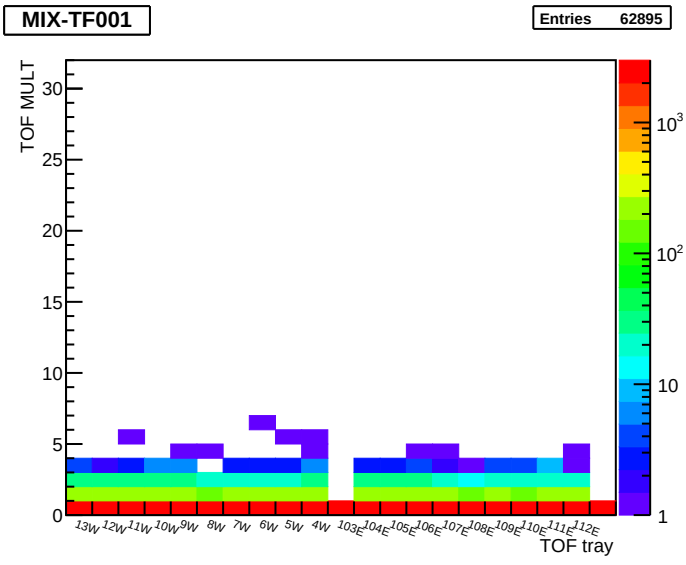

BunchId7Bit (HT UPCsingle)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

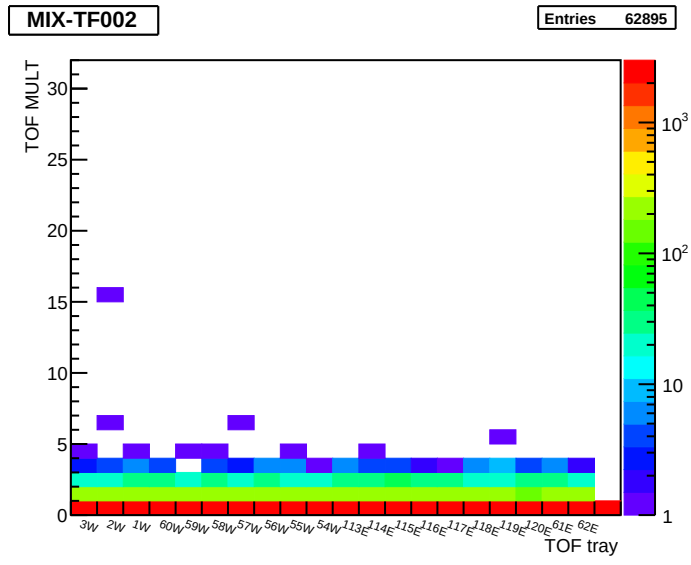

BunchId7Bit (HT.TP UPCsingle)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

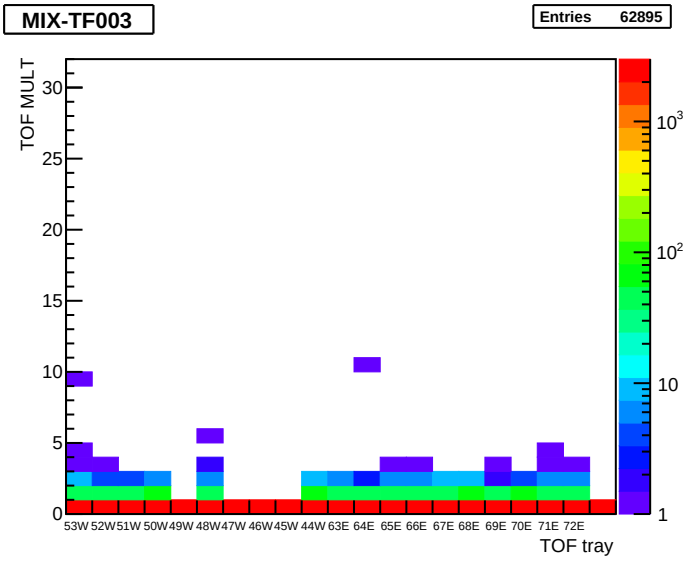

BunchId7Bit (TP UPCsingle)
Entries 4
1
$10^{-1}$
$10^{-2}$
$10^{-3}$
0 20 40 60 80 100 120

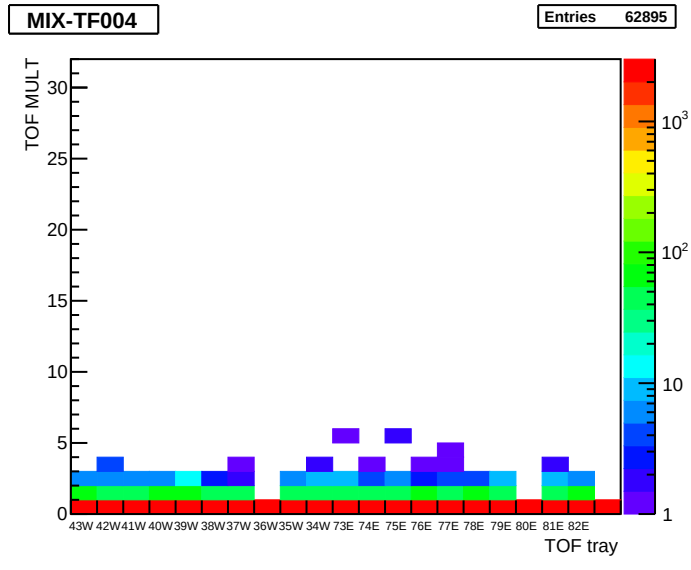

BunchId7Bit (VPD-TAC)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

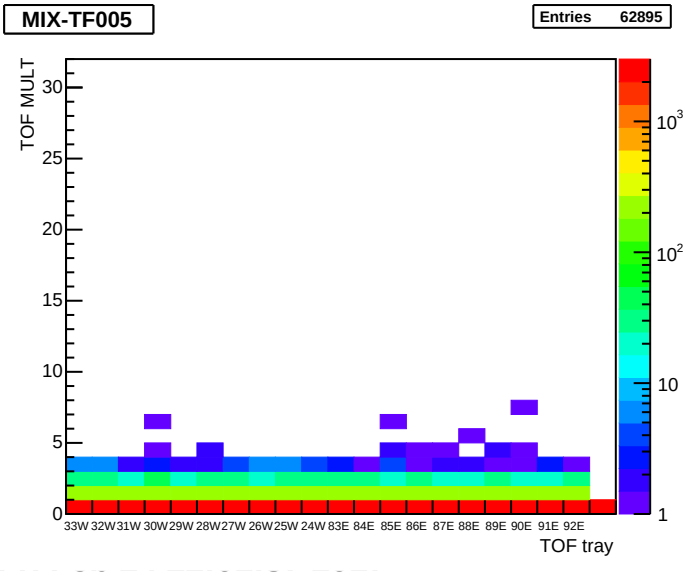

BunchId7Bit (MTD-th2)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

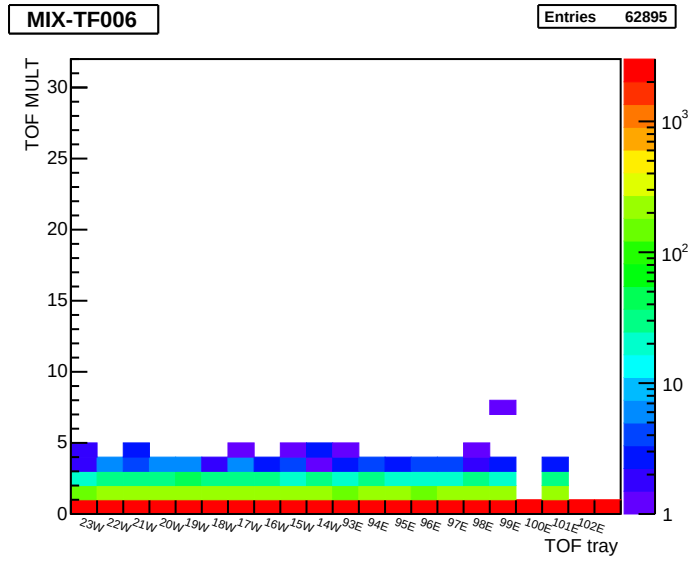

MIX-TF001
Entries 62895
TOF MULT
TOF tray

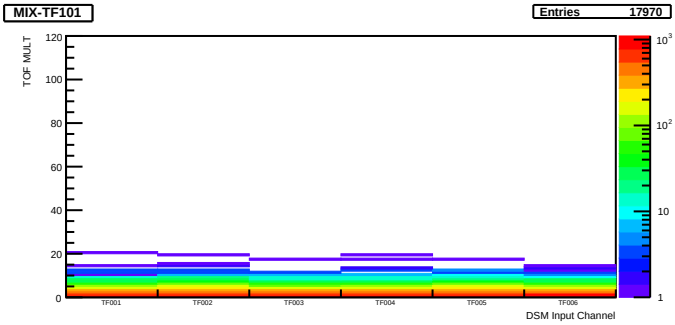

MIX-TF002
Entries 62895
TOF MULT
TOF tray

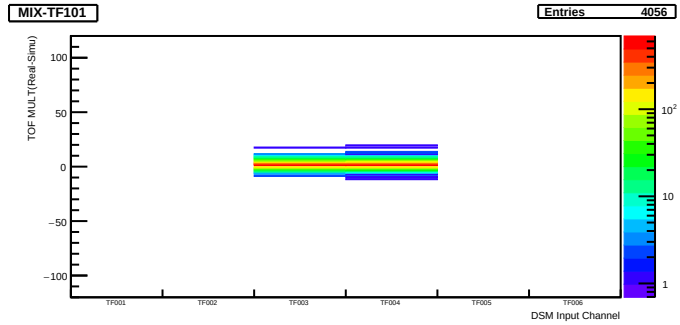

MIX-TF003
Entries 62895
TOF MULT
TOF tray

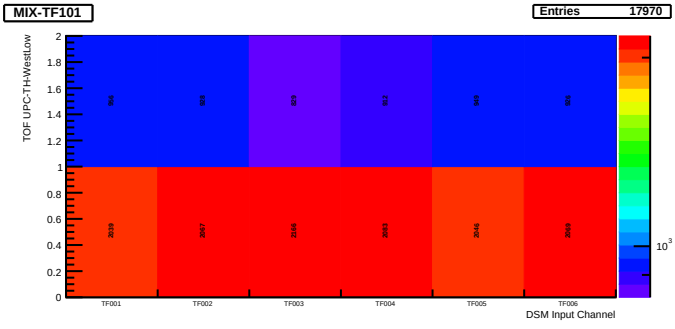

MIX-TF004
Entries 62895
TOF MULT
TOF tray

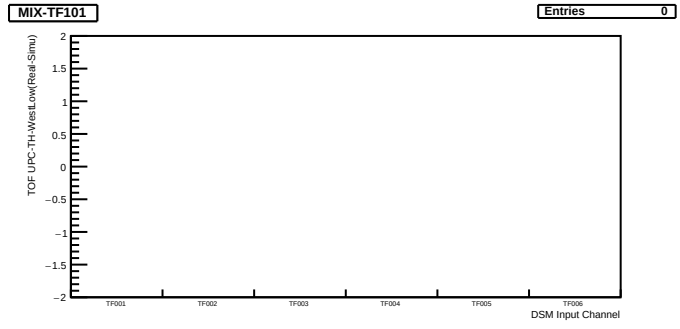

MIX-TF005
Entries 62895
TOF MULT
TOF tray

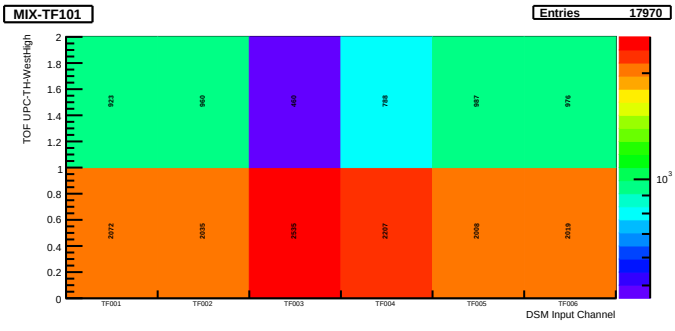

MIX-TF006
Entries 62895
TOF MULT
TOF tray

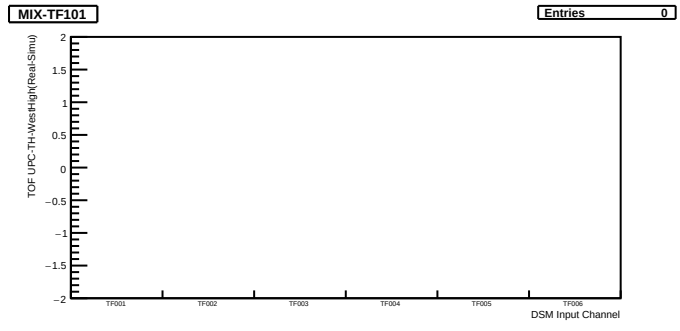

MIX-TF101
Entries 17970
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

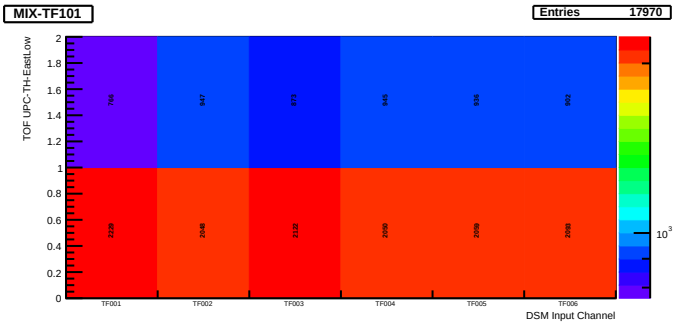

MIX-TF101
Entries 4056
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

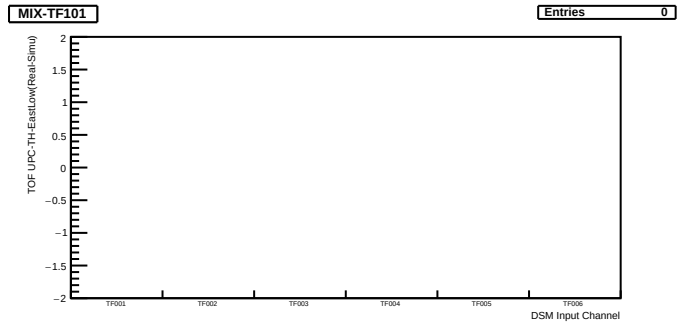

MIX-TF101
Entries 17970
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

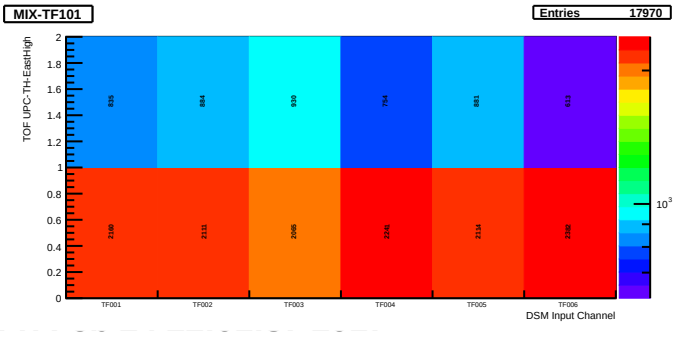

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

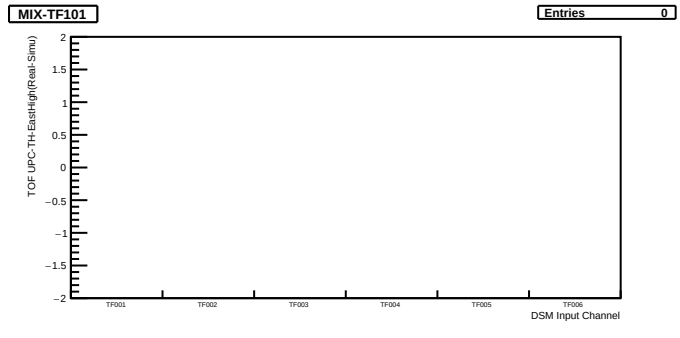

MIX-TF101
Entries 17970
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

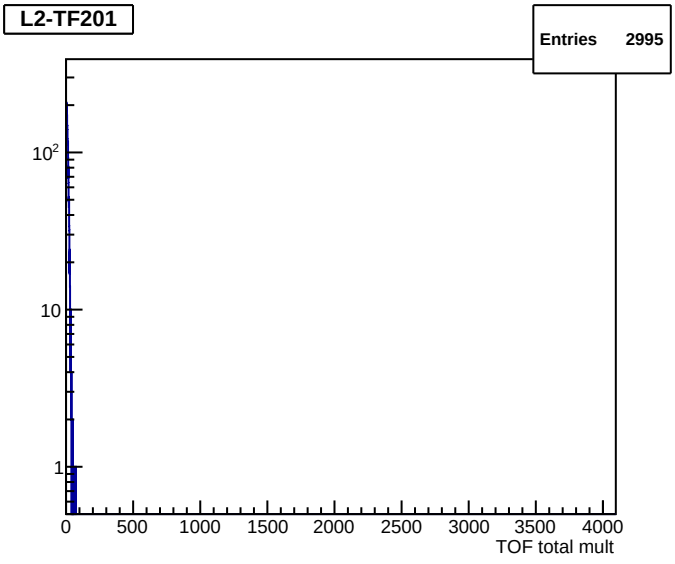

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

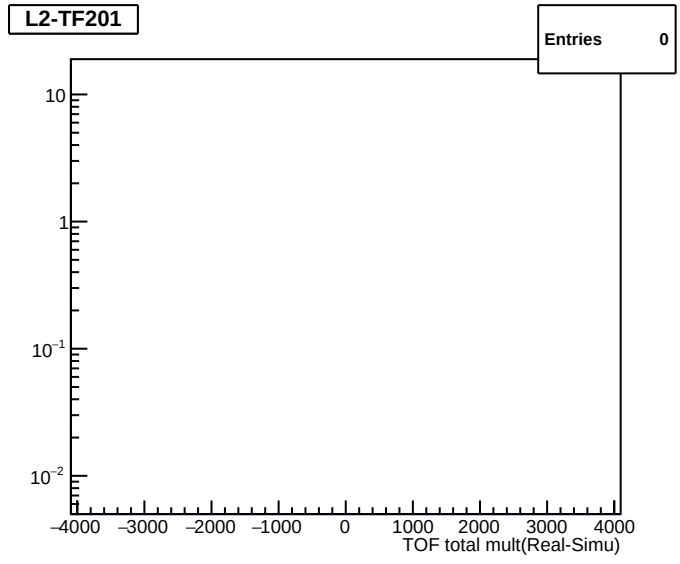

MIX-TF101
Entries 17970
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

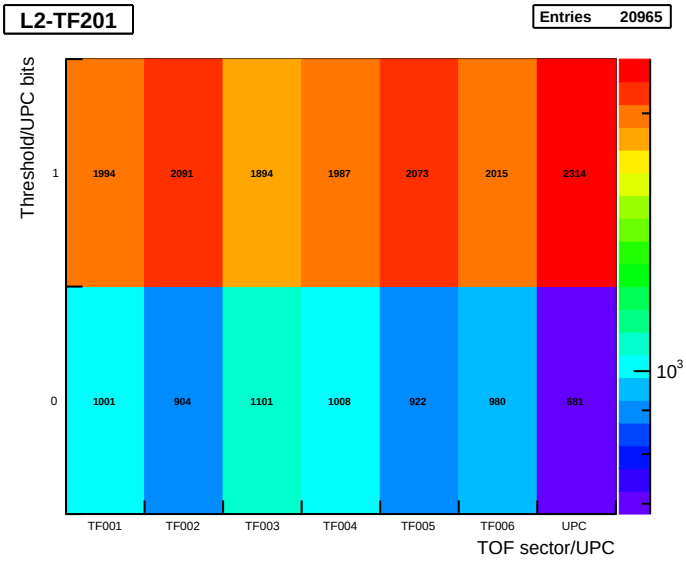

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

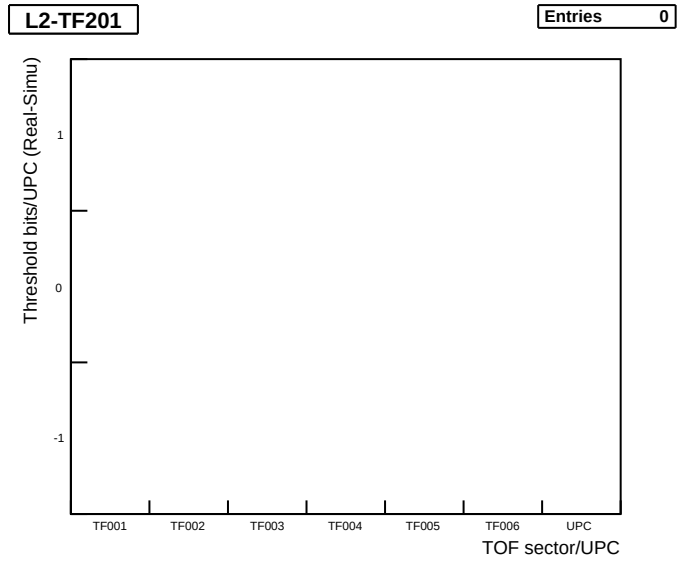

MIX-TF101
Entries 17970
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

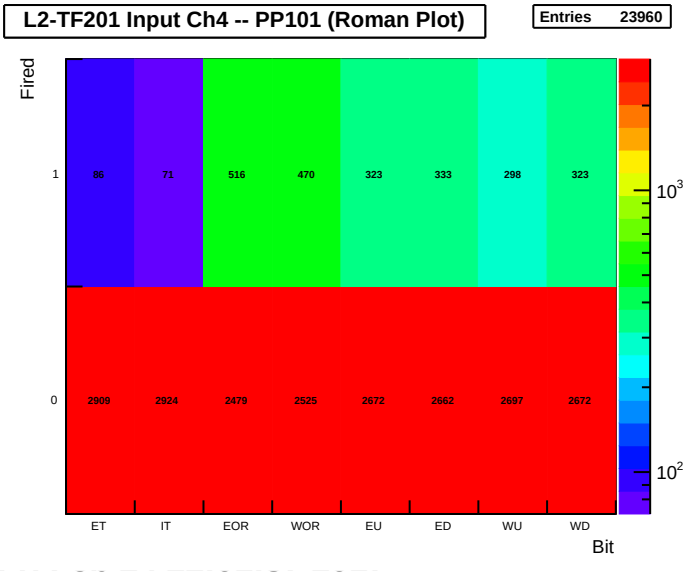

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

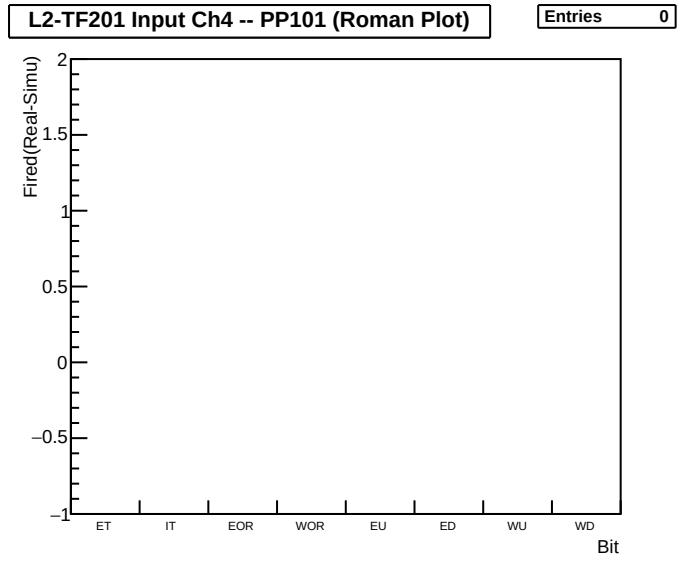

L2-TF201
Entries 2995
TOF total mult

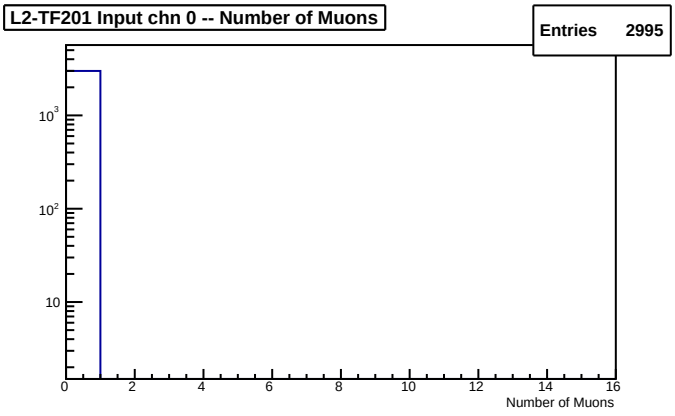

L2-TF201
Entries 0
TOF total mult(Real-Simu)

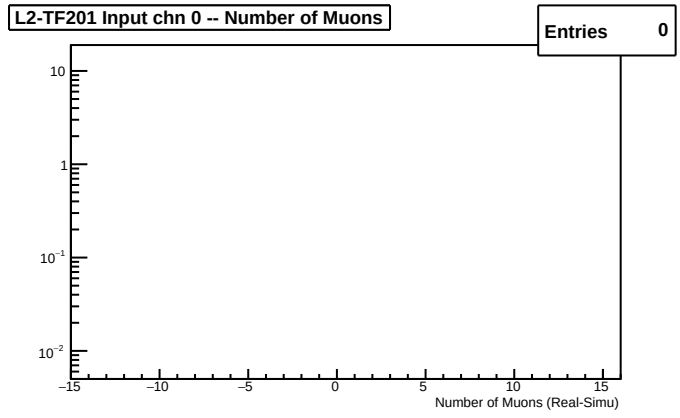

L2-TF201
Entries 20965
Threshold/UPC bits
1994 2091 1894 1987 2073 2015 2314
1001 904 1101 1008 922 980 681
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

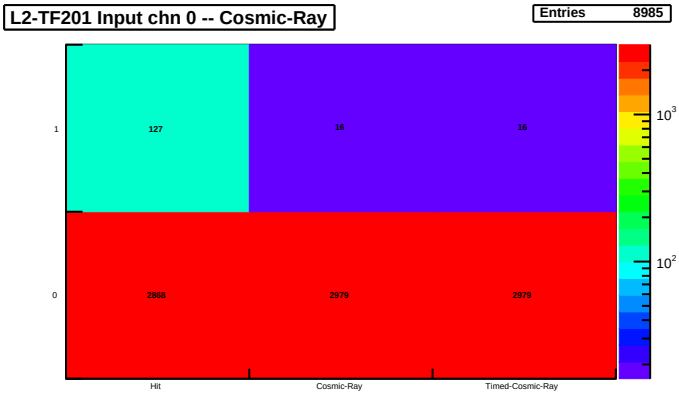

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

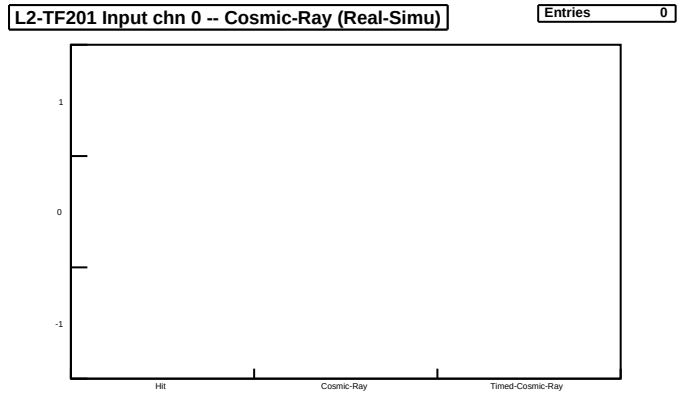

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 23960
Fired
86 71 516 470 323 333 298 323
2909 2924 2479 2525 2672 2662 2697 2672
ET IT EOR WOR EU ED WU WD
Bit

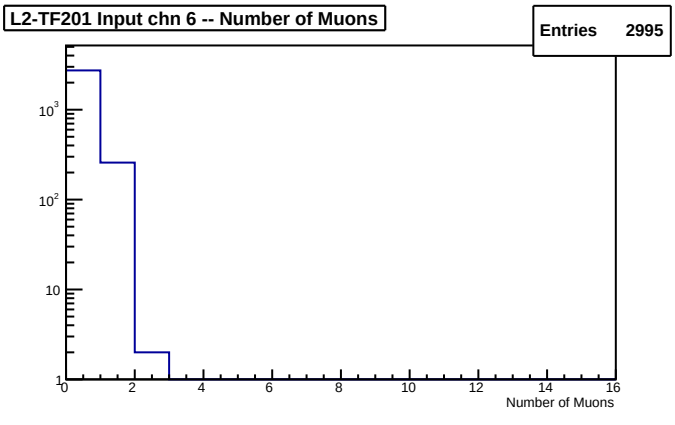

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 0
Fired(Real-Simu)
ET IT EOR WOR EU ED WU WD
Bit

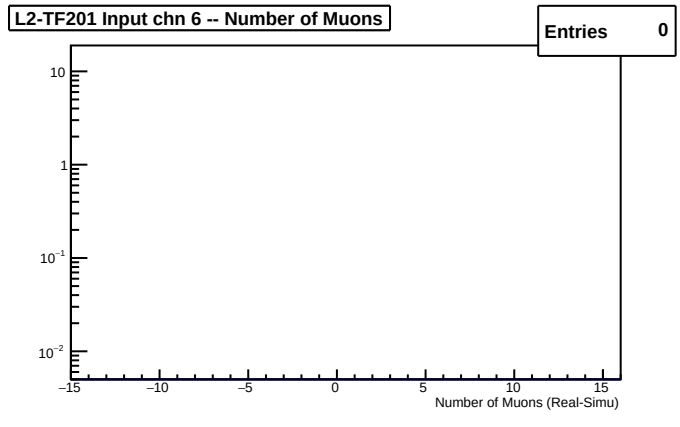

L2-TF201 Input chn 0 -- Number of Muons
Entries 2995
Number of Muons

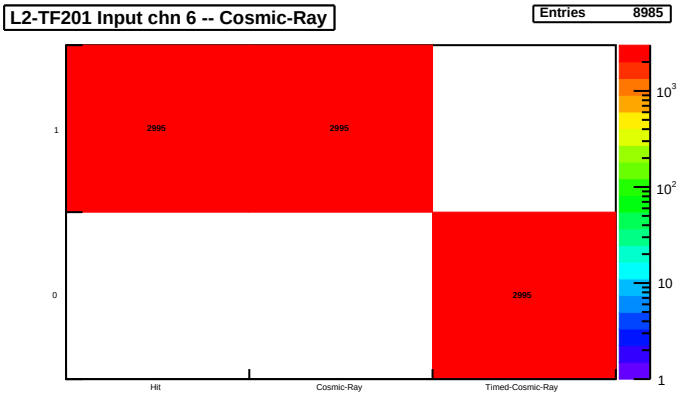

L2-TF201 Input chn 0 -- Number of Muons
Entries 0
Number of Muons (Real-Simu)

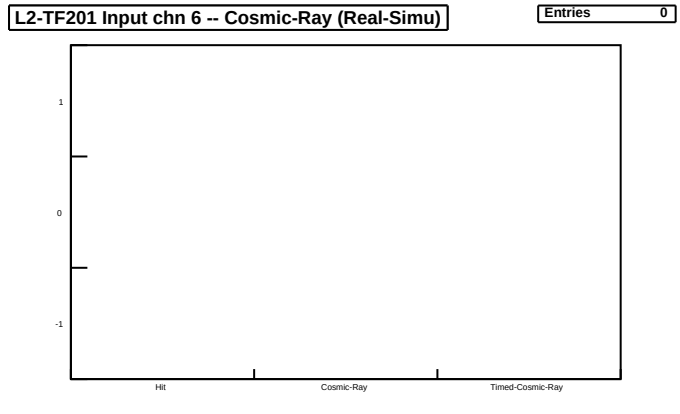

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 8985
127
16
16
2868
2979
2979
Hit
Cosmic-Ray
Timed-Cosmic-Ray

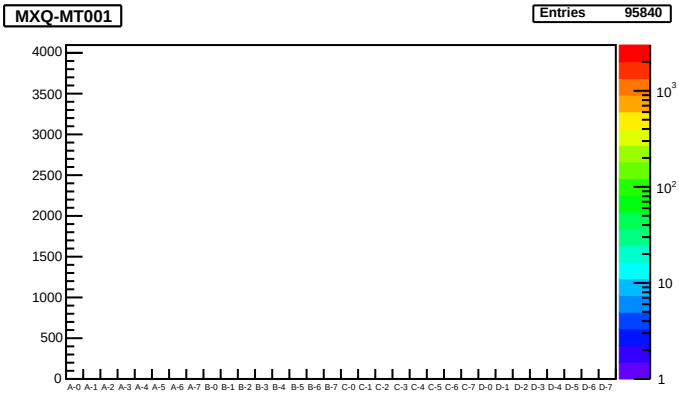

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 0
Hit
Cosmic-Ray
Timed-Cosmic-Ray

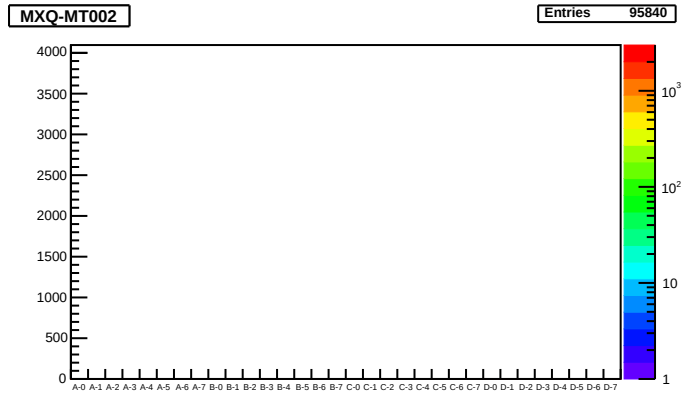

L2-TF201 Input chn 6 -- Number of Muons
Entries 2995
Number of Muons

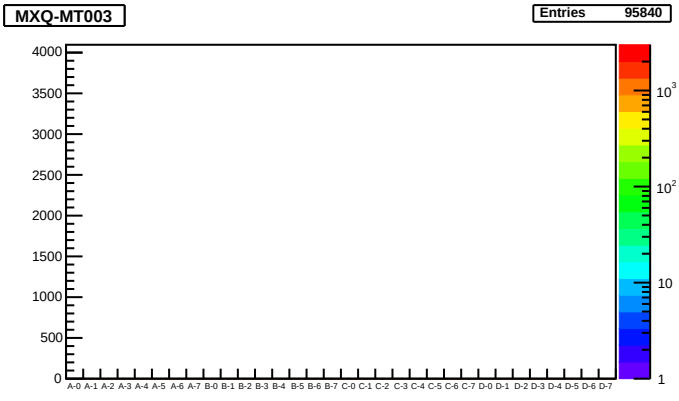

L2-TF201 Input chn 6 -- Number of Muons
Entries 0
Number of Muons (Real-Simu)

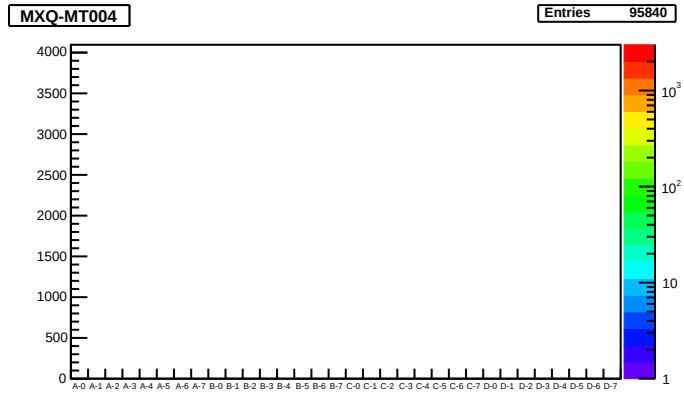

L2-TF201 Input chn 6 -- Cosmic-Ray
Entries 8985
2995
2995
2995
Hit
Cosmic-Ray
Timed-Cosmic-Ray

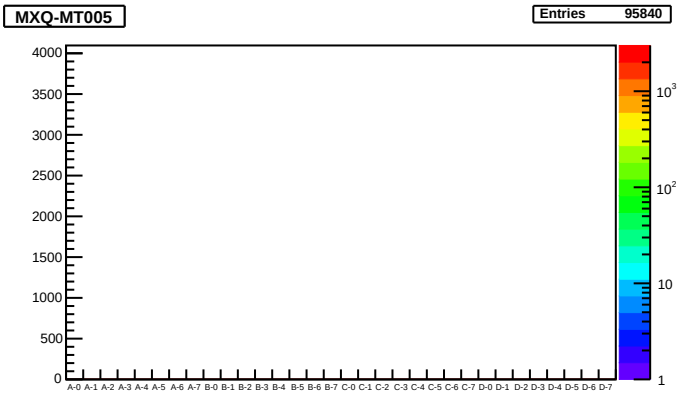

L2-TF201 Input chn 6 -- Cosmic-Ray (Real-Simu)
Entries 0
Hit
Cosmic-Ray
Timed-Cosmic-Ray

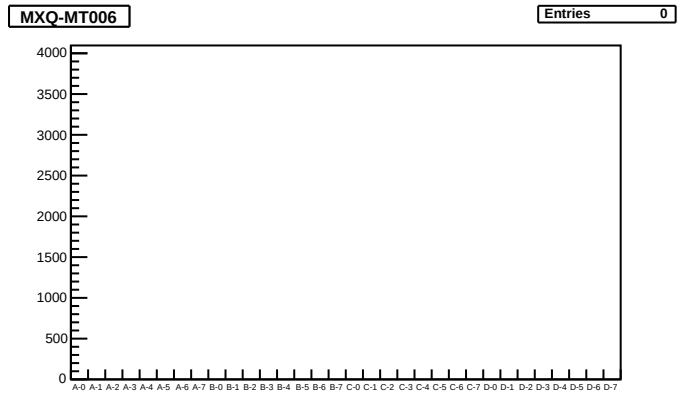

MXQ-MT001
Entries 95840
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
$10^3$
$10^2$
10
1

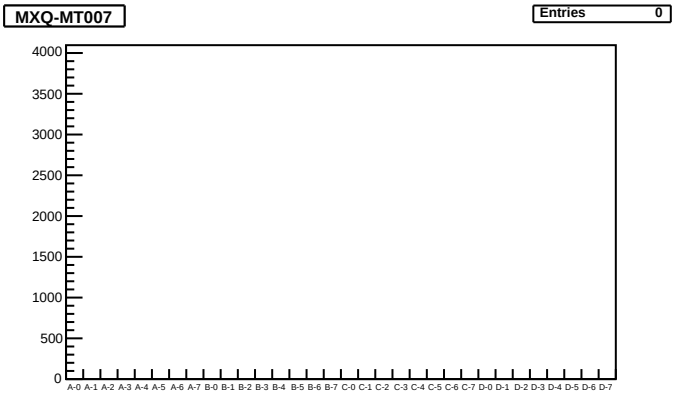

MXQ-MT002
Entries 95840
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
$10^3$
$10^2$
10
1

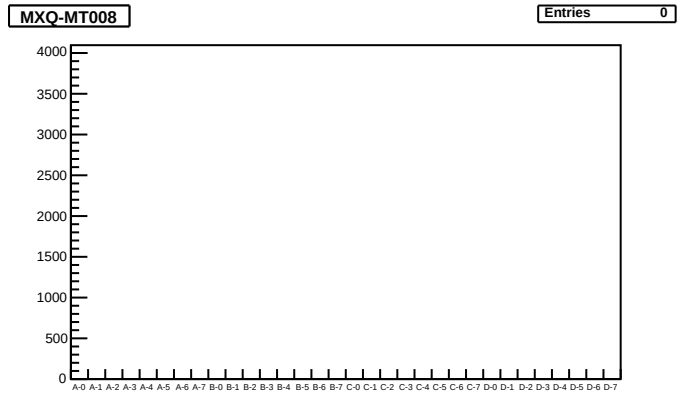

MXQ-MT003
Entries 95840
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
$10^3$
$10^2$
10
1

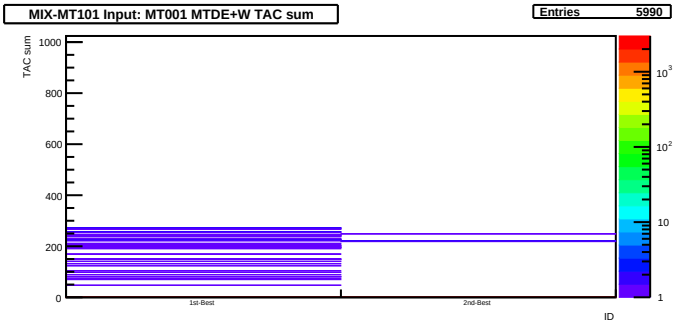

MXQ-MT004
Entries 95840
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
$10^3$
$10^2$
10
1

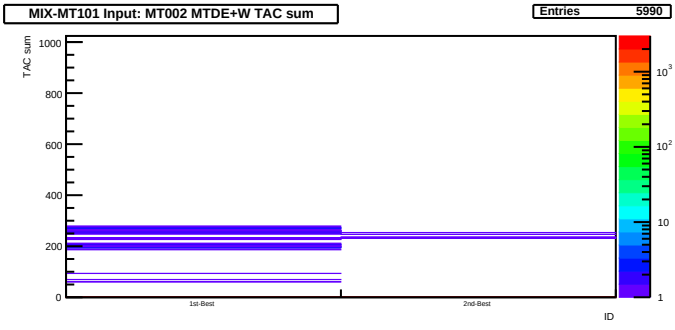

MXQ-MT005
Entries 95840
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
$10^3$
$10^2$
10
1

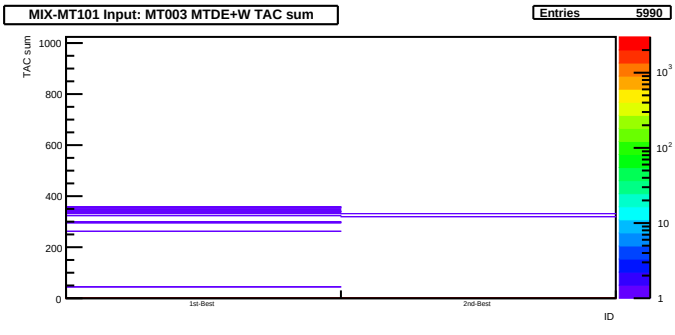

MXQ-MT006
Entries 0
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7

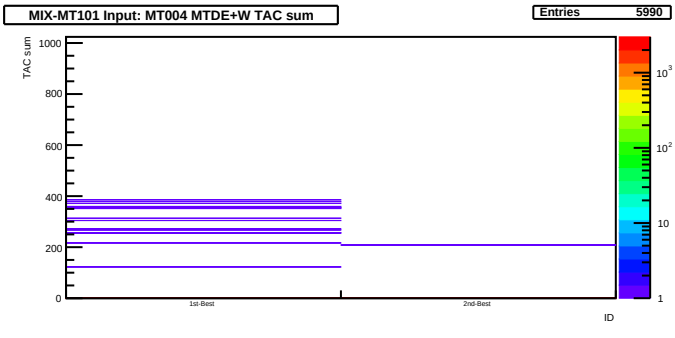

MXQ-MT007
Entries 0
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7

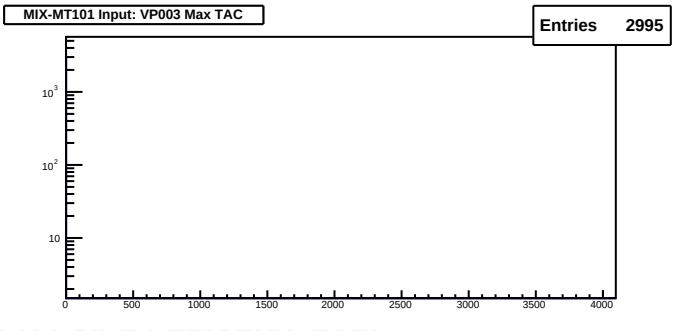

MXQ-MT008
Entries 0
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7

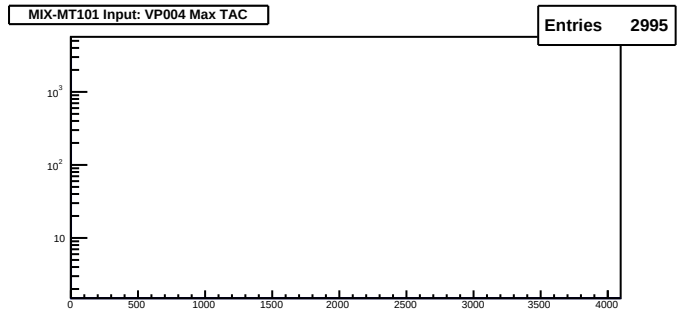

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

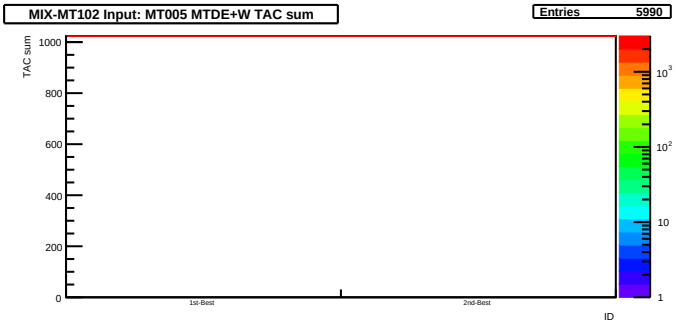

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

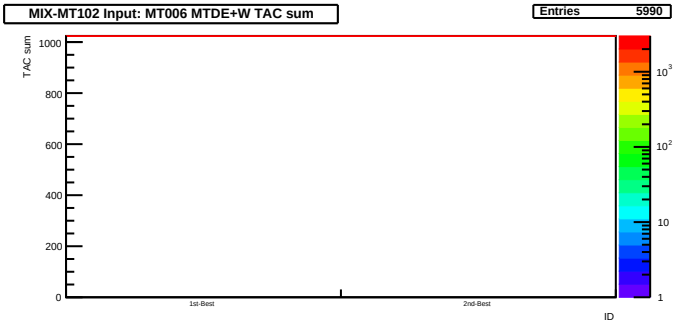

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

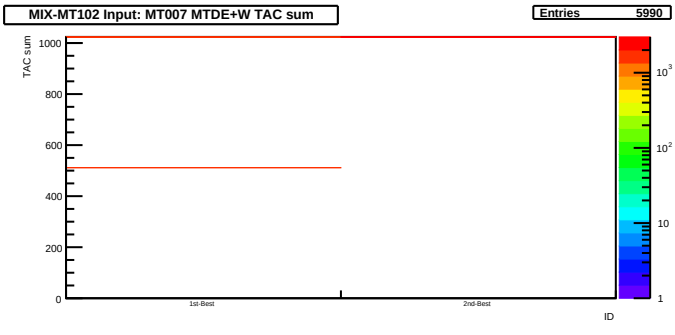

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

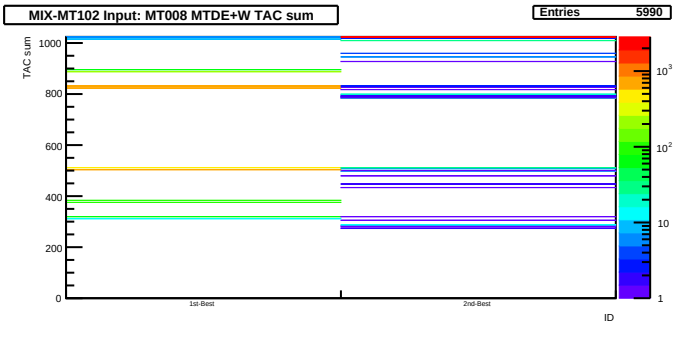

MIX-MT101 Input: VP003 Max TAC
Entries 2995

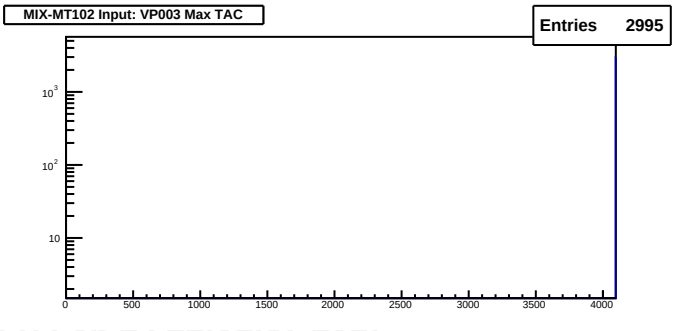

MIX-MT101 Input: VP004 Max TAC
Entries 2995

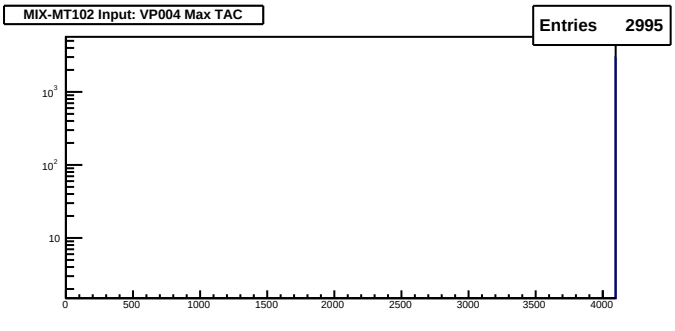

MIX-MT102 Input: MT005 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

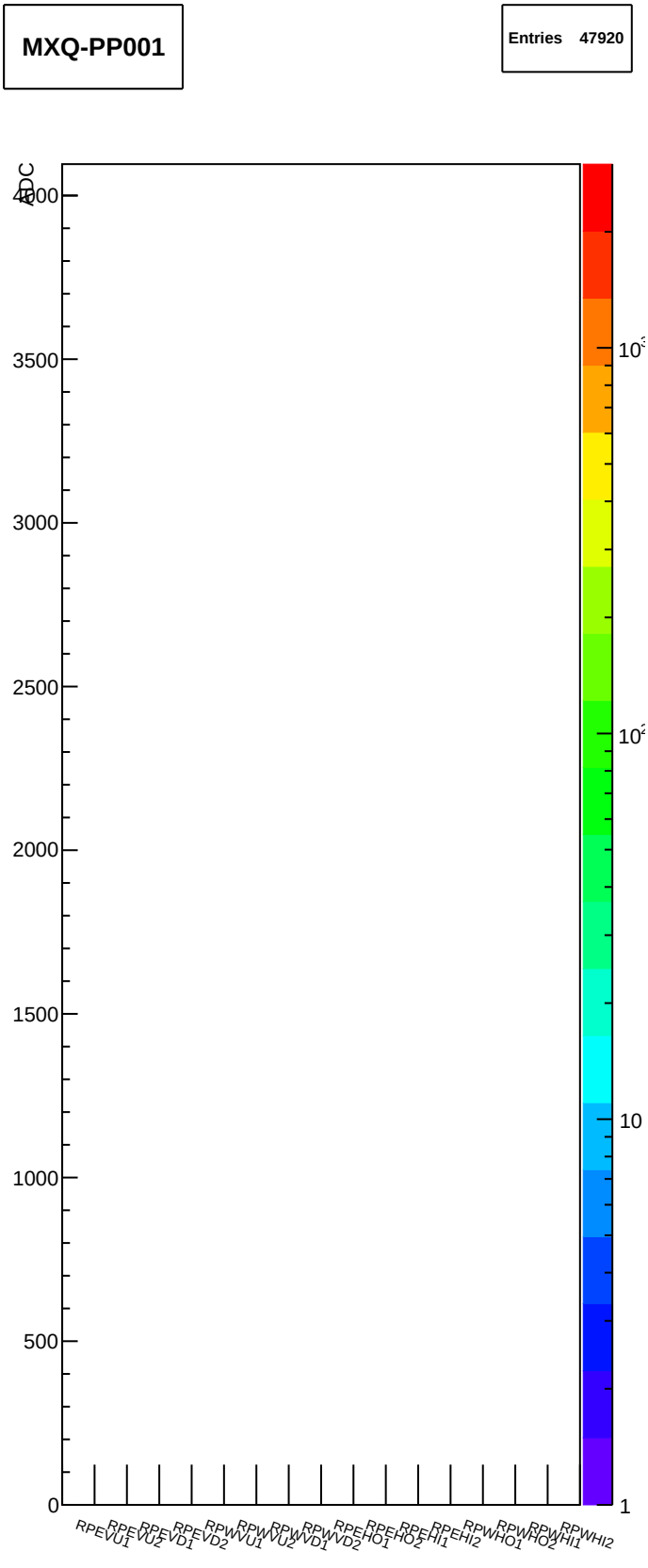

MIX-MT102 Input: MT006 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

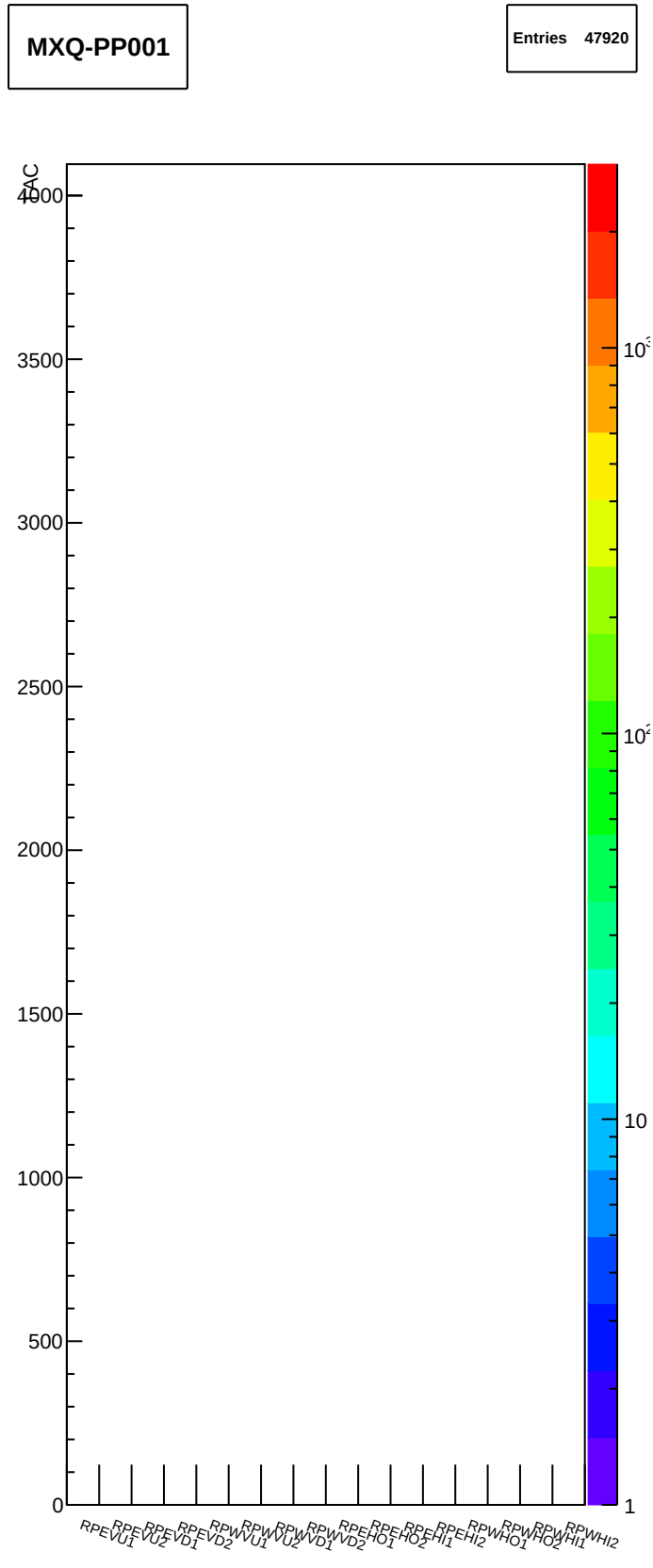

MIX-MT102 Input: MT007 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

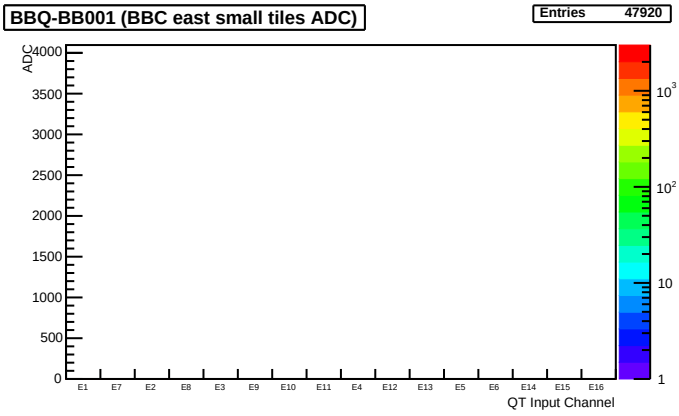

MIX-MT102 Input: MT008 MTDE+W TAC sum
Entries 5990
TAC sum
1st-Best
2nd-Best
ID

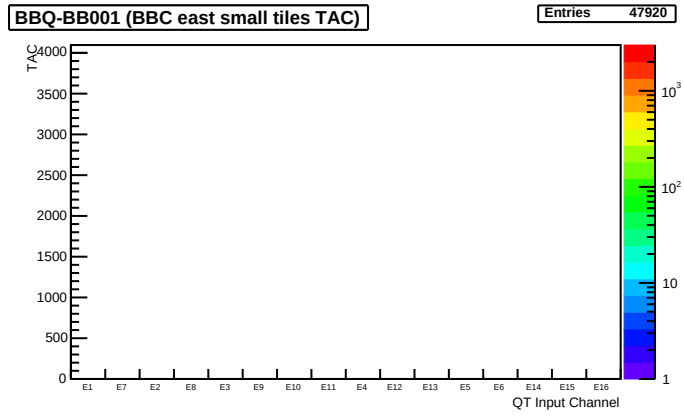

MIX-MT102 Input: VP003 Max TAC
Entries 2995

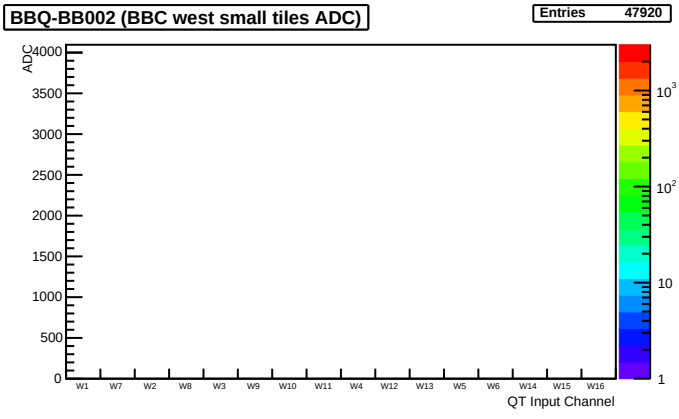

MIX-MT102 Input: VP004 Max TAC
Entries 2995

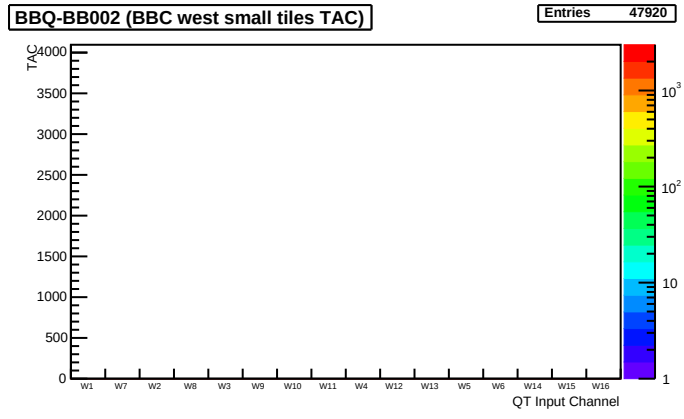

MXQ-PP001
Entries 47920
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

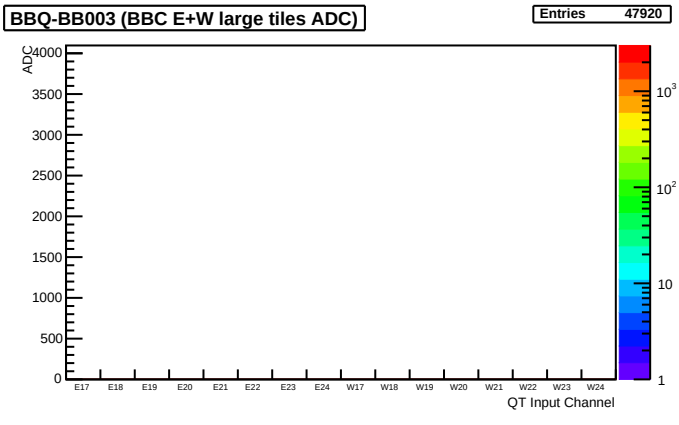

MXQ-PP001
Entries 47920
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

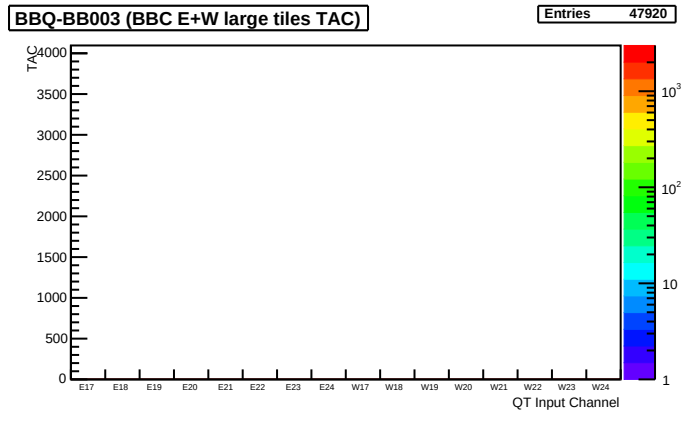

BBQ-BB001 (BBC east small tiles ADC)
Entries 47920
ADC
QT Input Channel

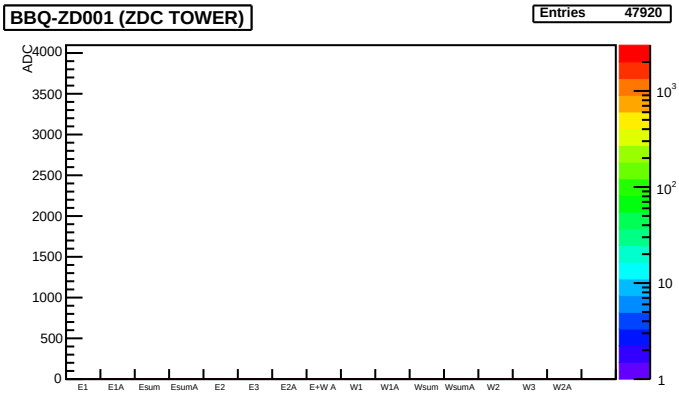

BBQ-BB001 (BBC east small tiles TAC)
Entries 47920
TAC
QT Input Channel

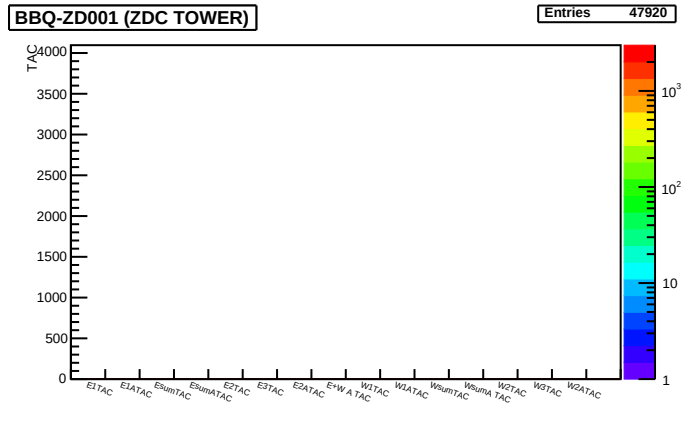

BBQ-BB002 (BBC west small tiles ADC)
Entries 47920
ADC
QT Input Channel

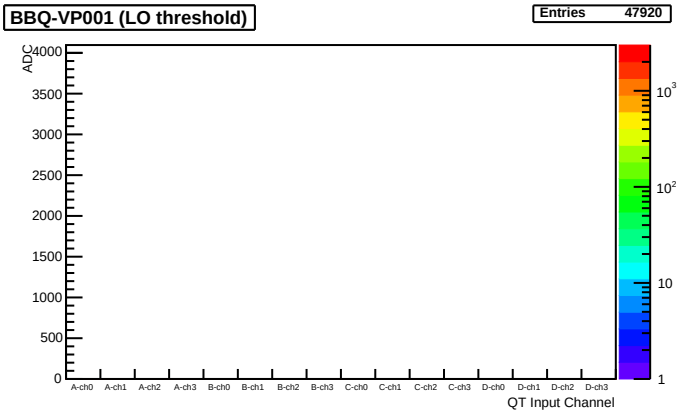

BBQ-BB002 (BBC west small tiles TAC)
Entries 47920
TAC
QT Input Channel

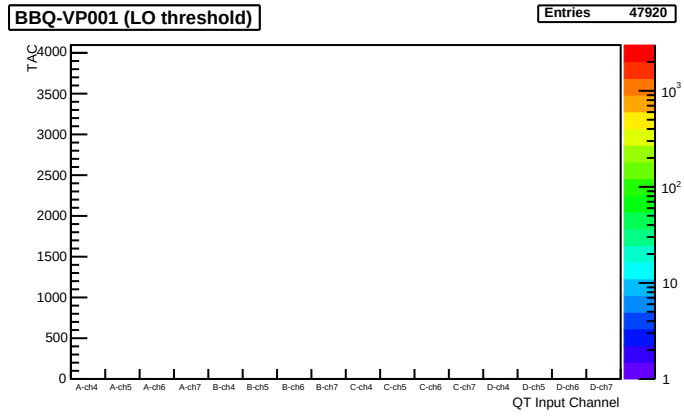

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 47920
ADC
QT Input Channel

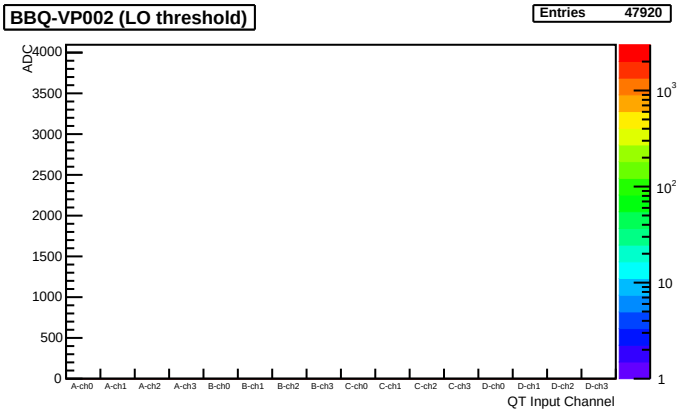

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 47920
TAC
QT Input Channel

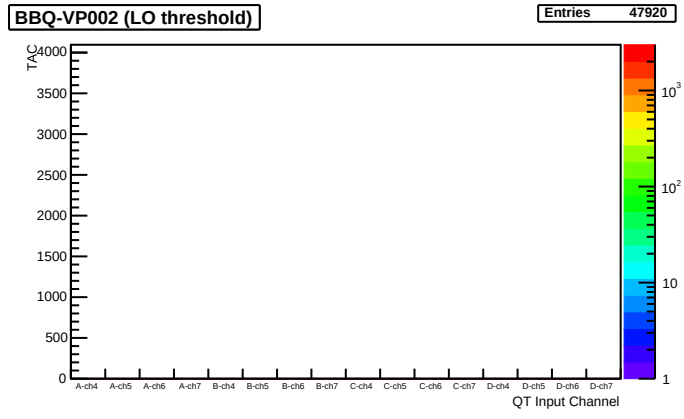

BBQ-ZD001 (ZDC TOWER)
Entries 47920
ADC

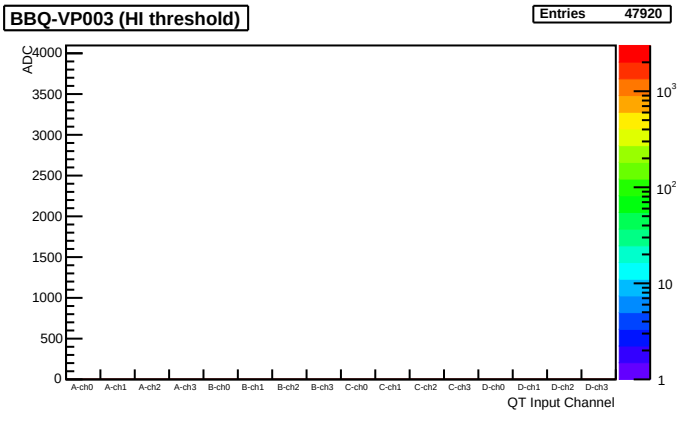

BBQ-ZD001 (ZDC TOWER)
Entries 47920
TAC

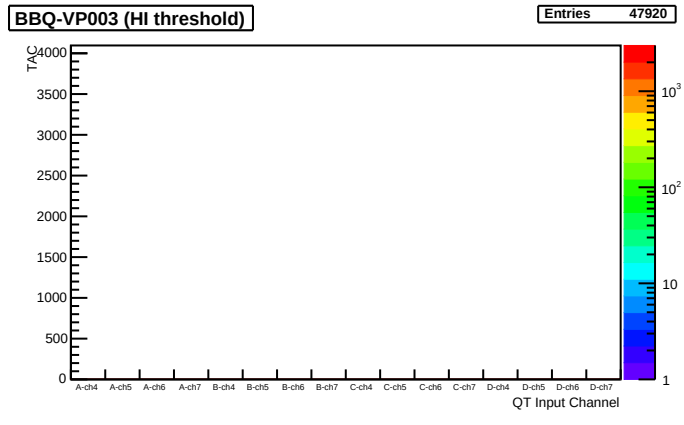

BBQ-VP001 (LO threshold)
Entries 47920
ADC
QT Input Channel

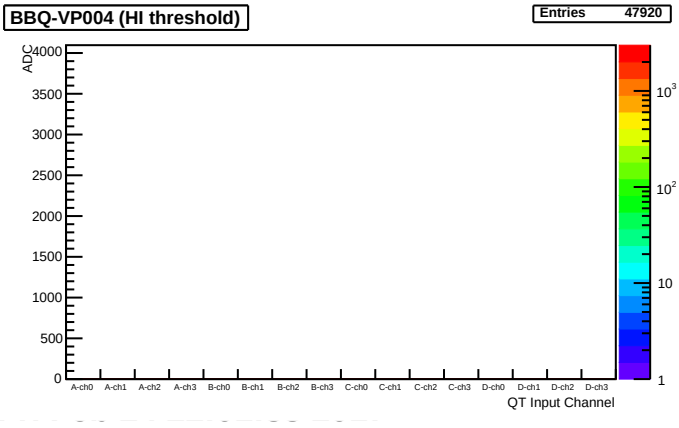

BBQ-VP001 (LO threshold)
Entries 47920
TAC
QT Input Channel

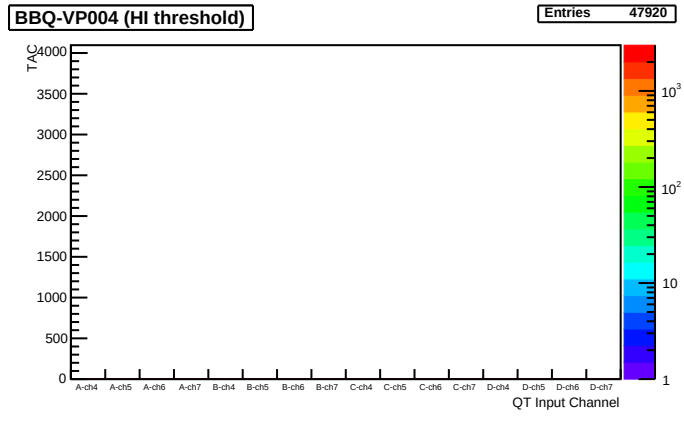

BBQ-VP002 (LO threshold)
Entries 47920
ADC
QT Input Channel

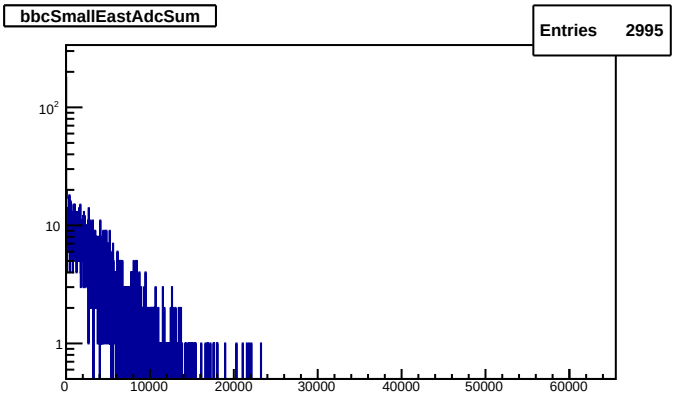

BBQ-VP002 (LO threshold)
Entries 47920
TAC
QT Input Channel

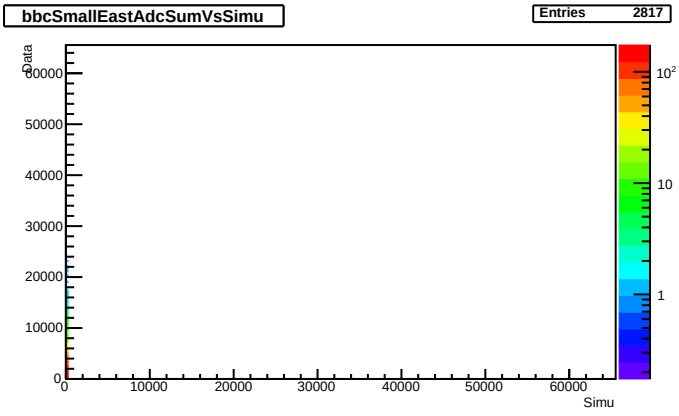

BBQ-VP003 (HI threshold)
Entries 47920
ADC
QT Input Channel

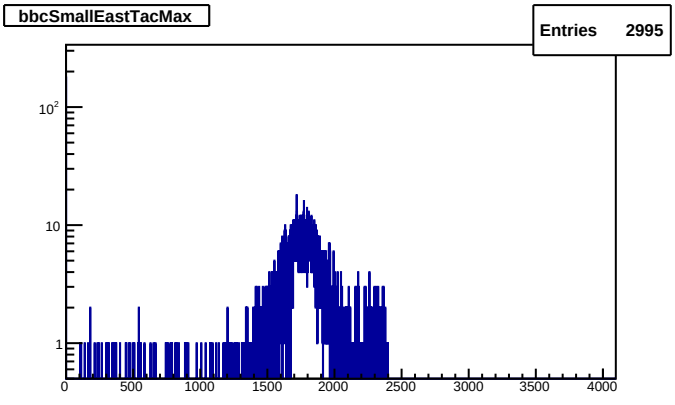

BBQ-VP003 (HI threshold)
Entries 47920
TAC
QT Input Channel

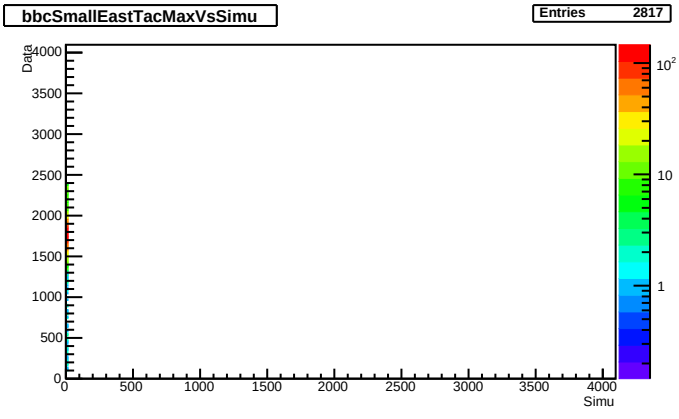

BBQ-VP004 (HI threshold)
Entries 47920
ADC
QT Input Channel

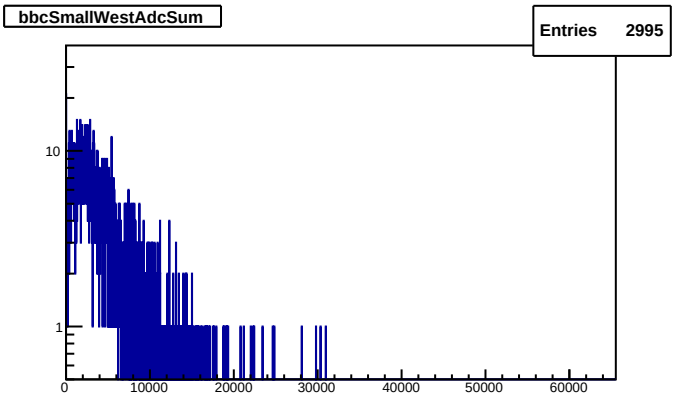

BBQ-VP004 (HI threshold)
Entries 47920
TAC
QT Input Channel

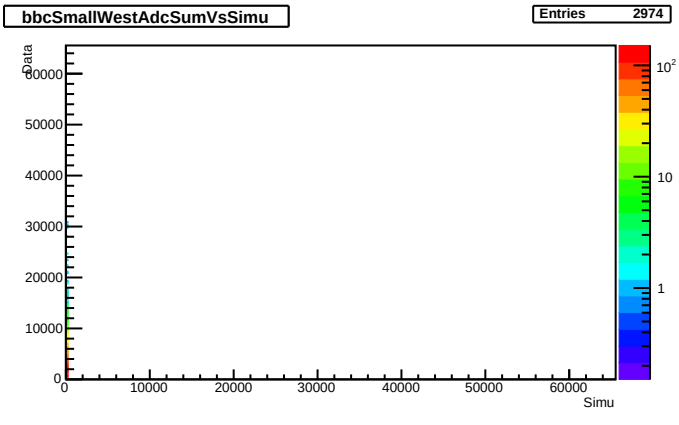

bbcSmallEastAdcSum
Entries 2995

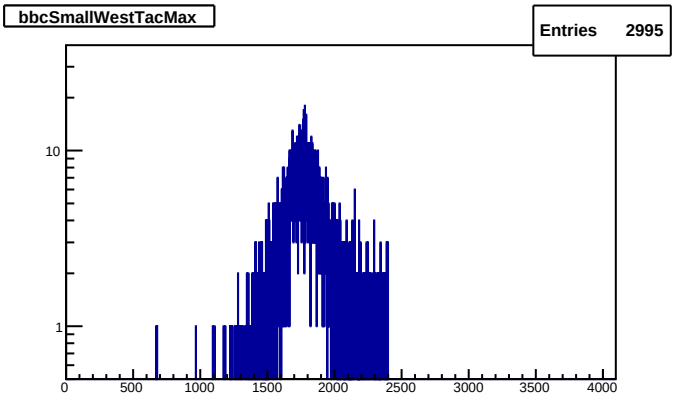

bbcSmallEastAdcSumVsSimu
Entries 2817
Data
Simu

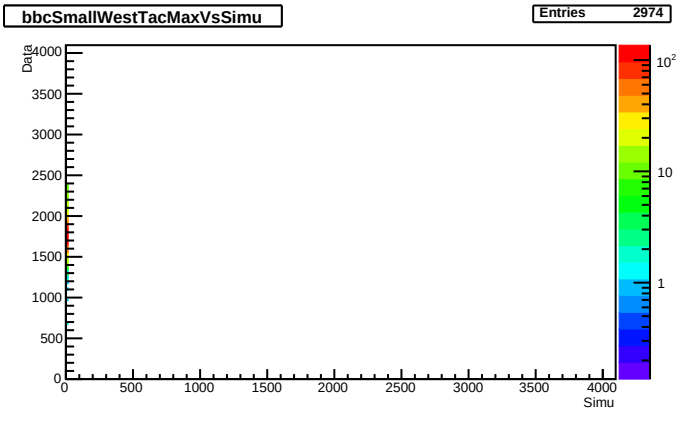

bbcSmallEastTacMax
Entries 2995

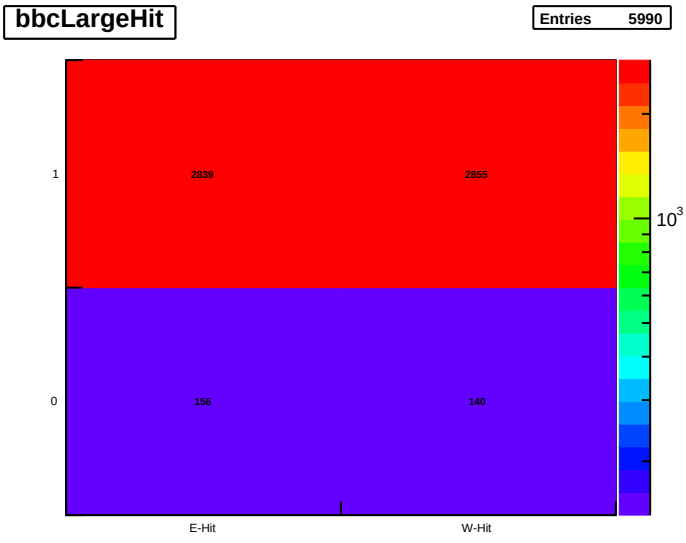

bbcSmallEastTacMaxVsSimu
Entries 2817
Data
Simu

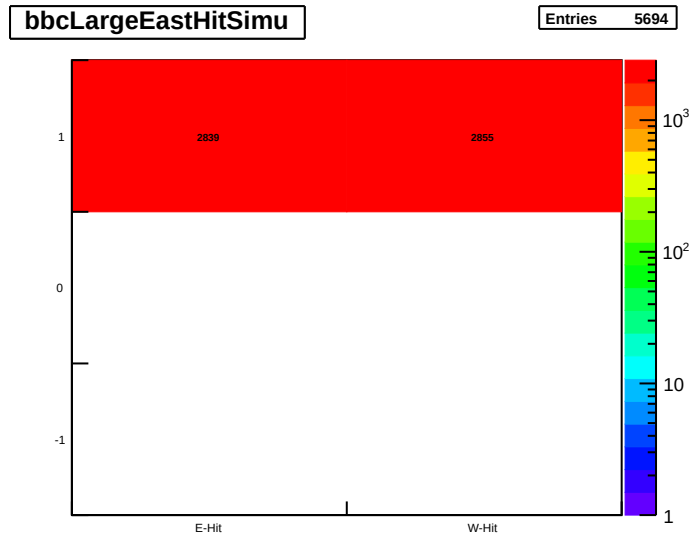

bbcSmallWestAdcSum
Entries 2995

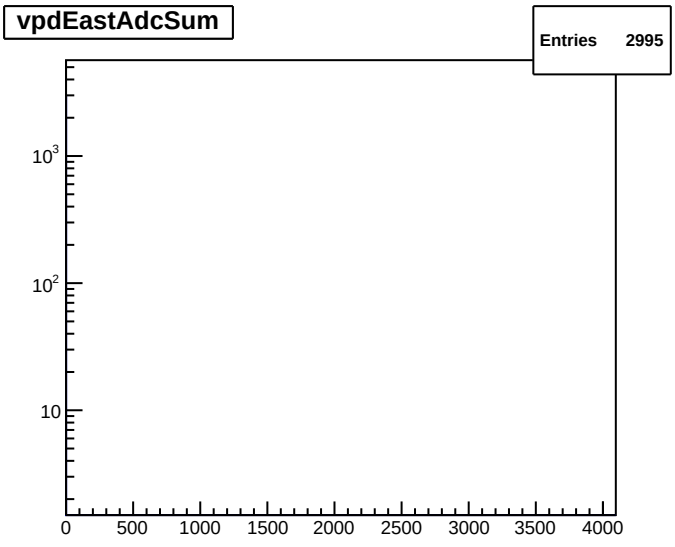

bbcSmallWestAdcSumVsSimu
Entries 2974
Data
Simu

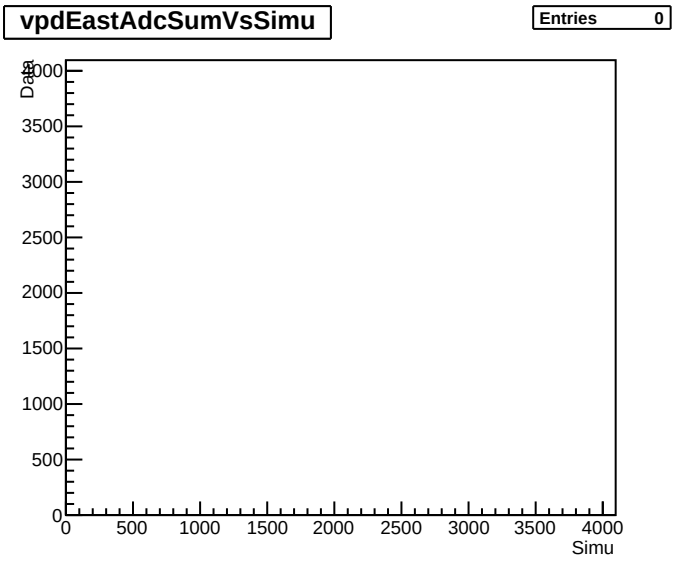

bbcSmallWestTacMax
Entries 2995

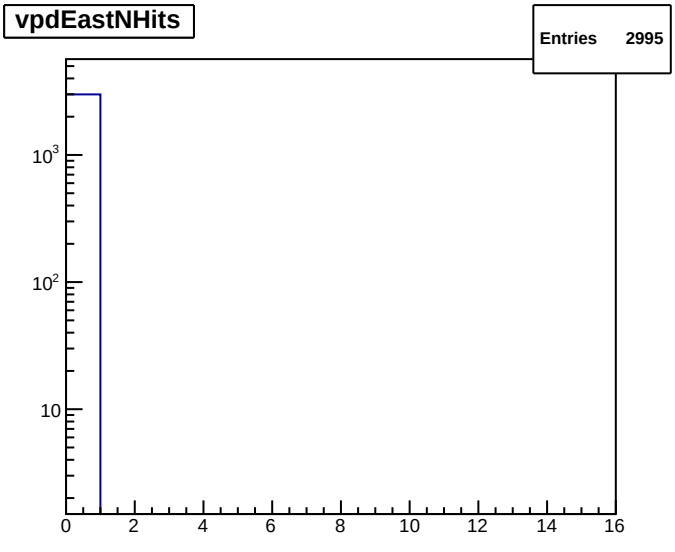

bbcSmallWestTacMaxVsSimu
Entries 2974
Data
Simu

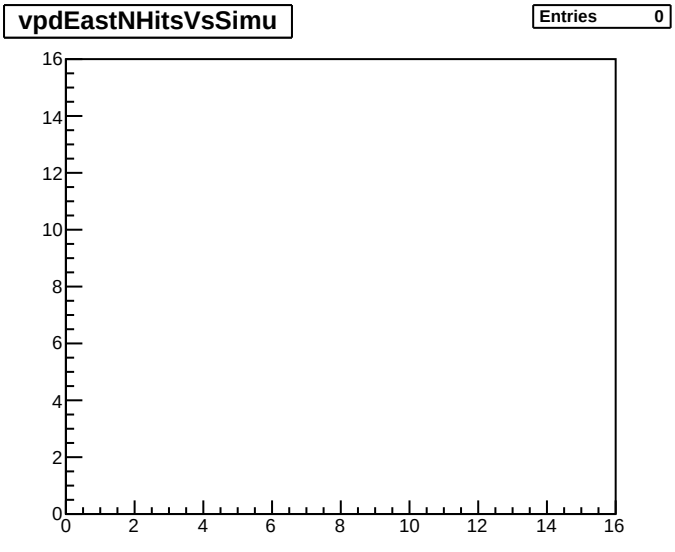

bbcLargeHit
Entries 5990
1
0
2839
2855
156
140
E-Hit
W-Hit
$10^3$

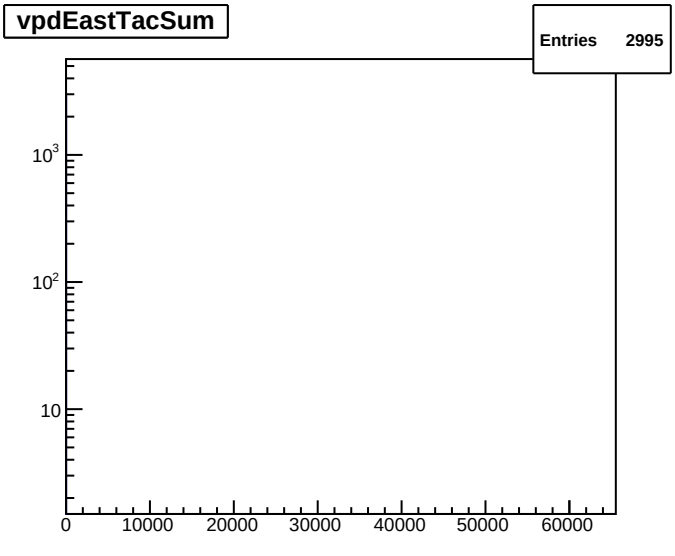

bbcLargeEastHitSimu
Entries 5694
1
0
-1
2839
2855
E-Hit
W-Hit
$10^3$
$10^2$
10
1

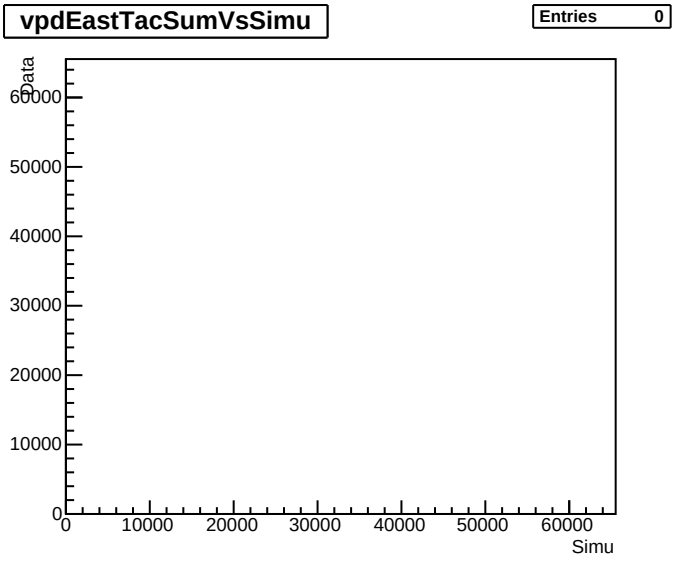

vpdEastAdcSum
Entries 2995
$10^3$
$10^2$
10
0 500 1000 1500 2000 2500 3000 3500 4000

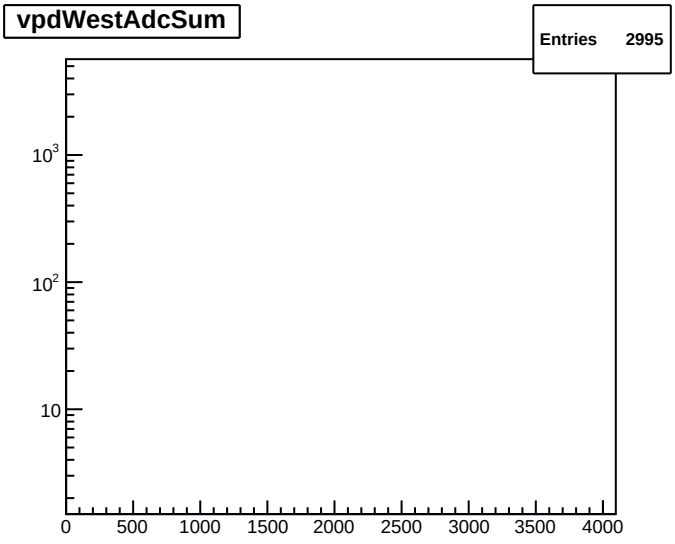

vpdEastAdcSumVsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

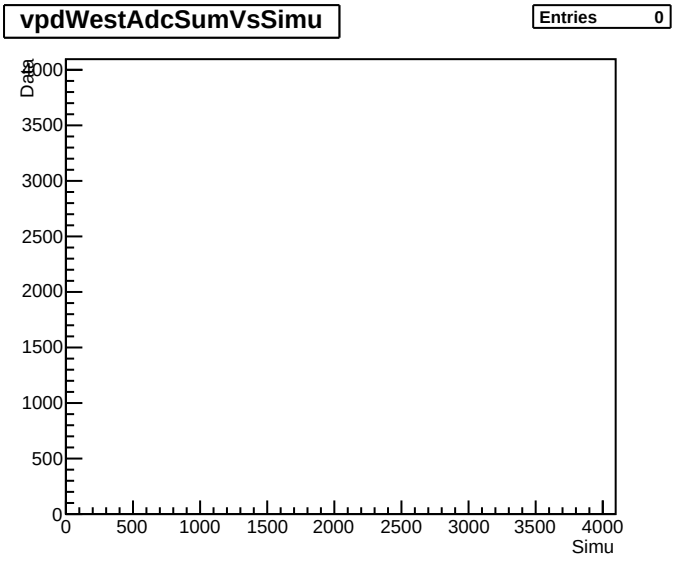

vpdEastNHits
Entries 2995
$10^3$
$10^2$
10
0 2 4 6 8 10 12 14 16

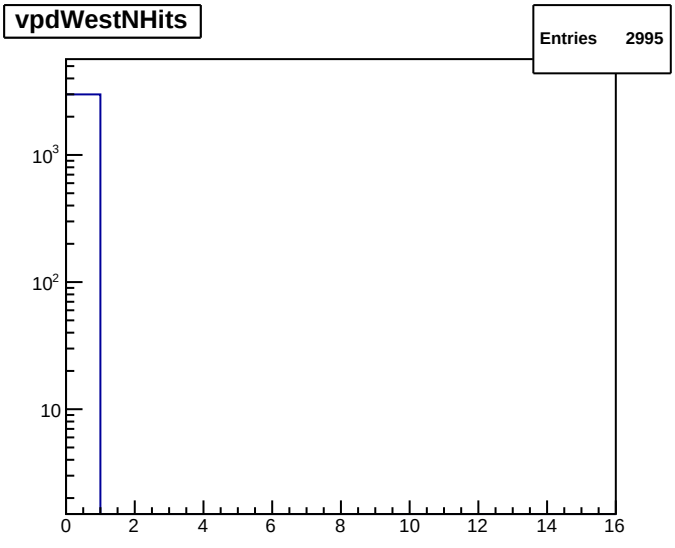

vpdEastNHitsVsSimu
Entries 0
16
14
12
10
8
6
4
2
0
0 2 4 6 8 10 12 14 16

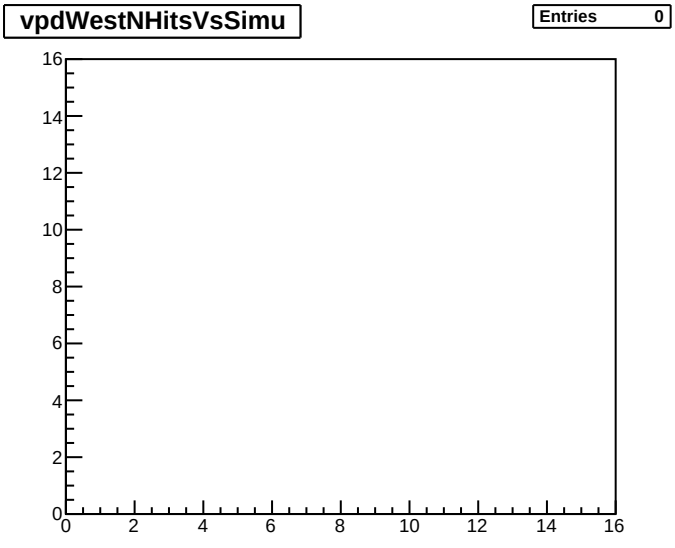

vpdEastTacSum
Entries 2995
$10^3$
$10^2$
10
0 10000 20000 30000 40000 50000 60000

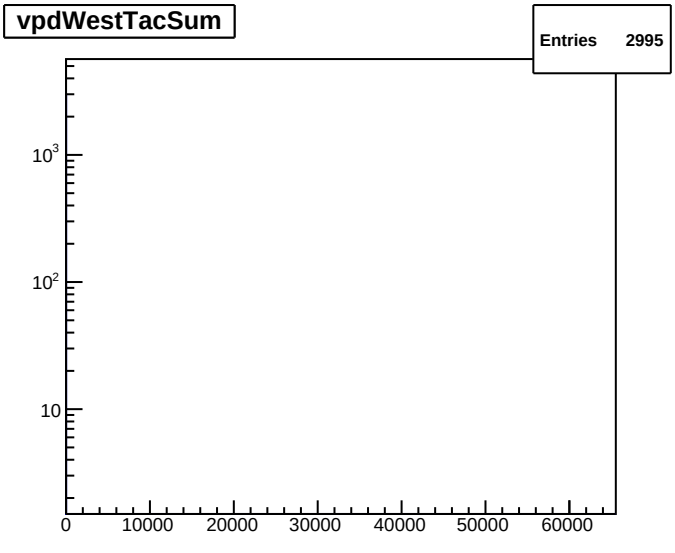

vpdEastTacSumVsSimu
Entries 0
Data
60000
50000
40000
30000
20000
10000
0
0 10000 20000 30000 40000 50000 60000
Simu

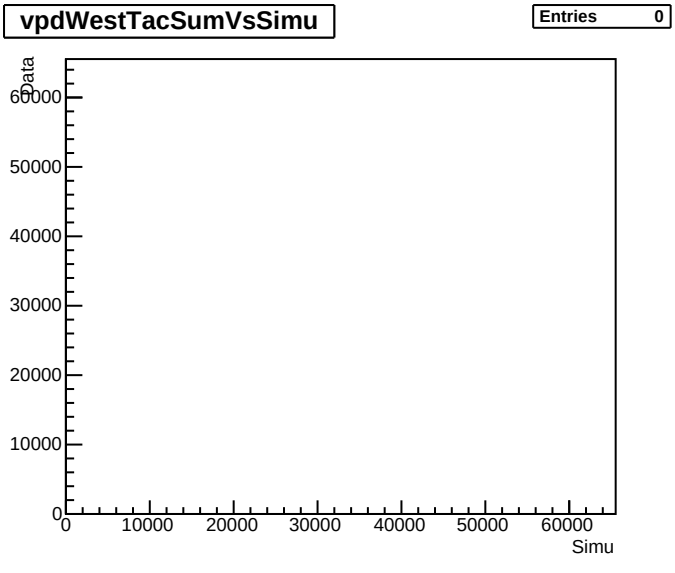

vpdWestAdcSum
Entries 2995
$10^3$
$10^2$
10
0 500 1000 1500 2000 2500 3000 3500 4000

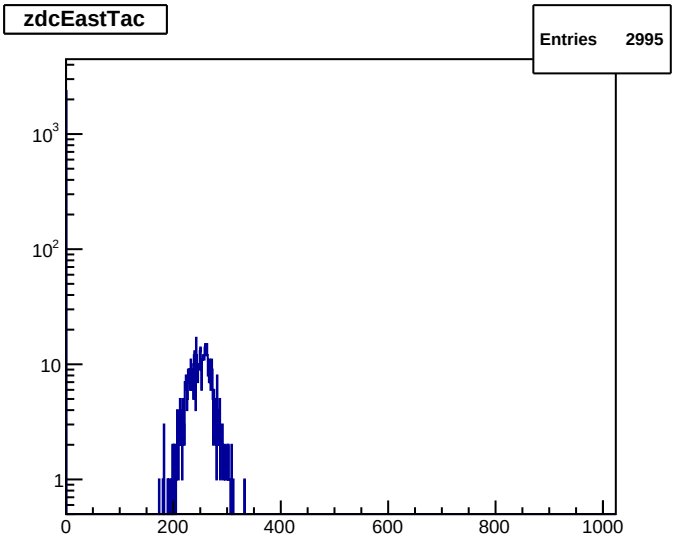

vpdWestAdcSumVsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

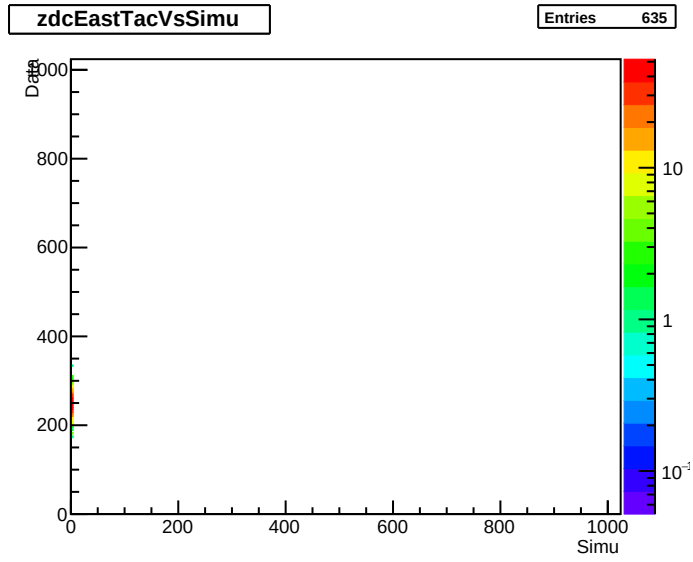

vpdWestNHits
Entries 2995
$10^3$
$10^2$
10
0 2 4 6 8 10 12 14 16

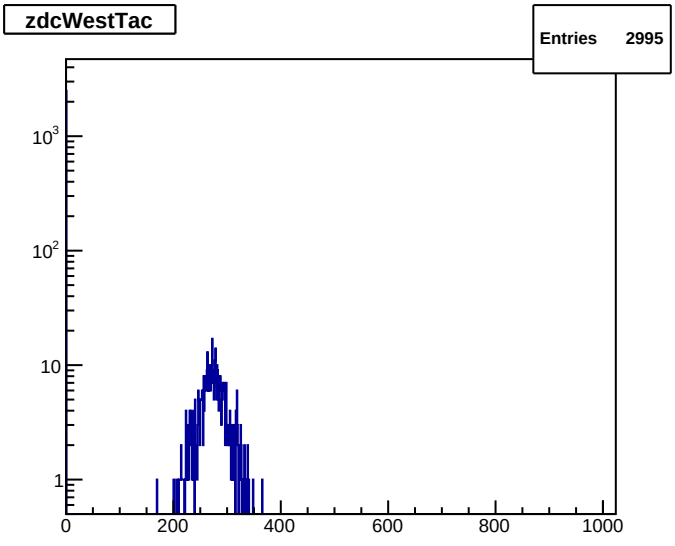

vpdWestNHitsVsSimu
Entries 0
16
14
12
10
8
6
4
2
0
0 2 4 6 8 10 12 14 16

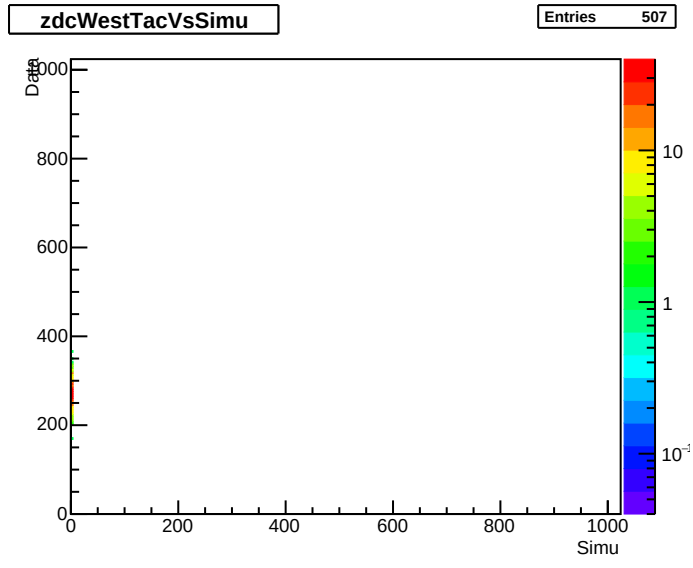

vpdWestTacSum
Entries 2995
$10^3$
$10^2$
10
0 10000 20000 30000 40000 50000 60000

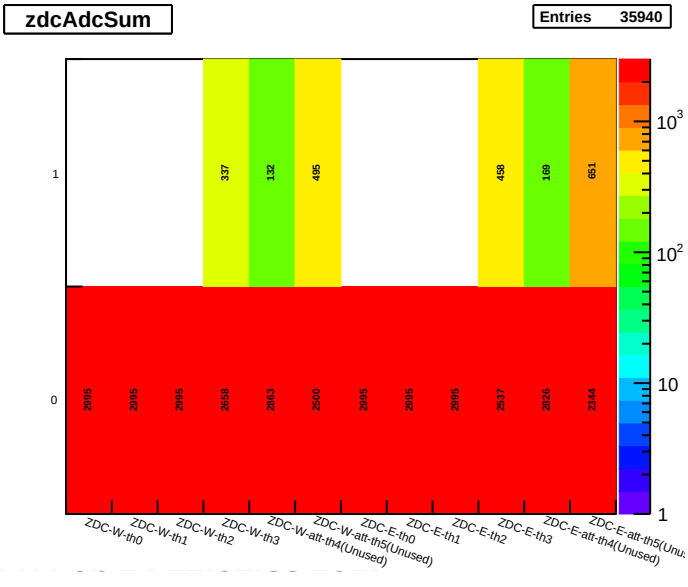

vpdWestTacSumVsSimu
Entries 0
Data
60000
50000
40000
30000
20000
10000
0
0 10000 20000 30000 40000 50000 60000
Simu

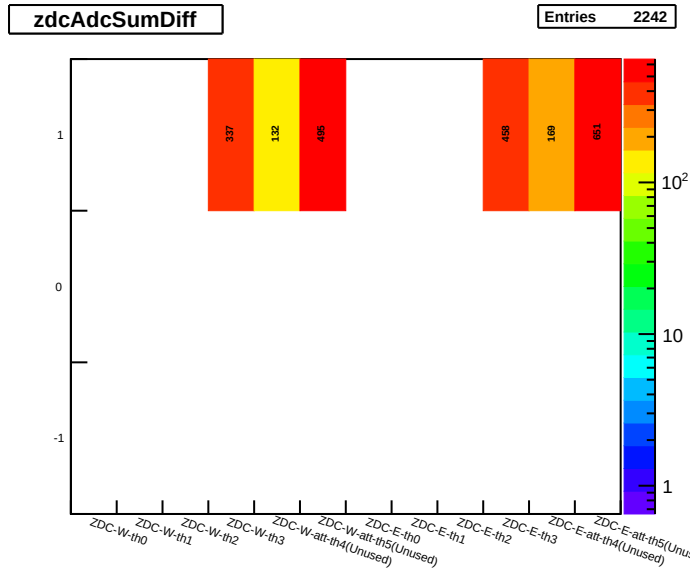

zdcEastTac
Entries 2995

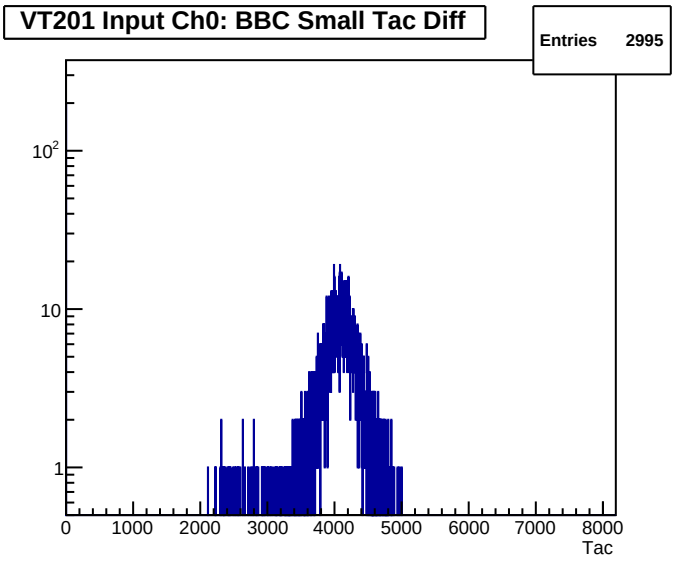

zdcEastTacVsSimu
Entries 635
Data
Simu

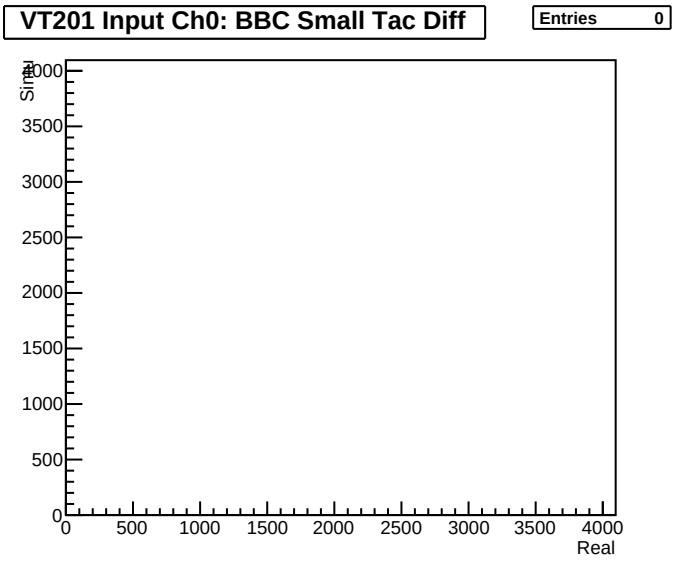

zdcWestTac
Entries 2995

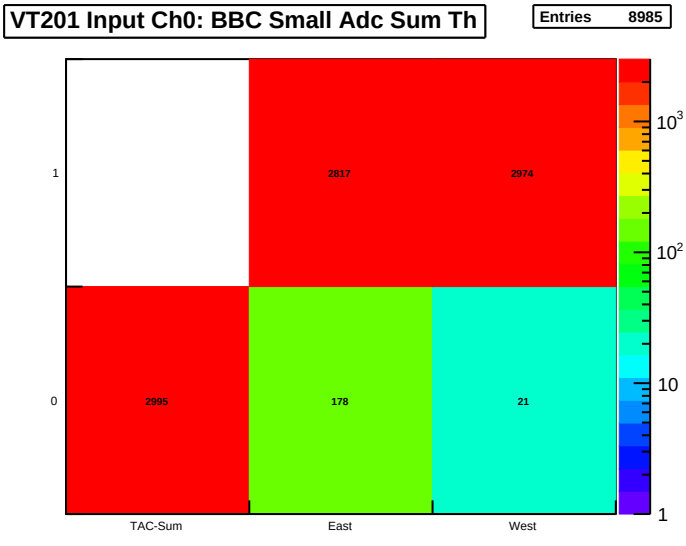

zdcWestTacVsSimu
Entries 507
Data
Simu

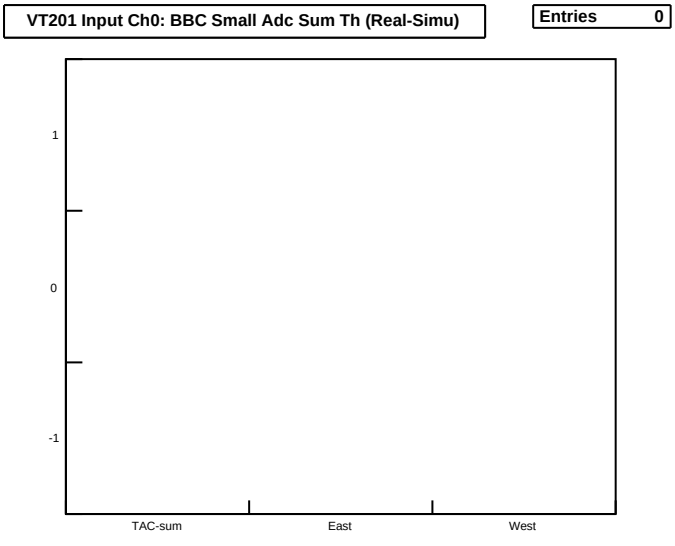

zdcAdcSum
Entries 35940
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

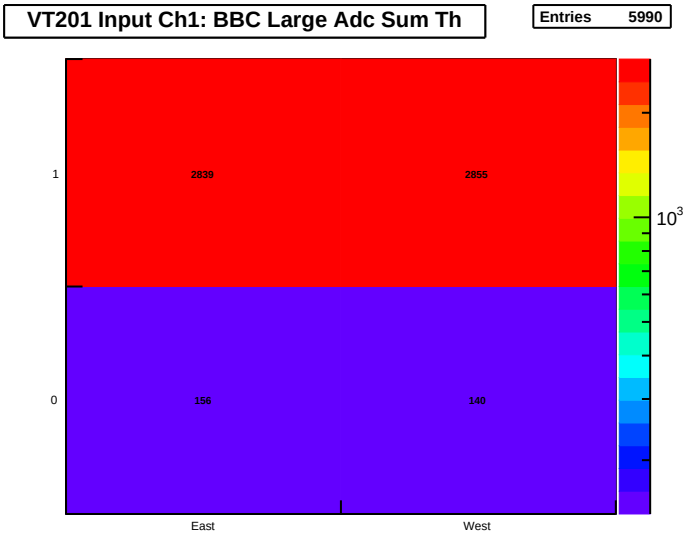

zdcAdcSumDiff
Entries 2242
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

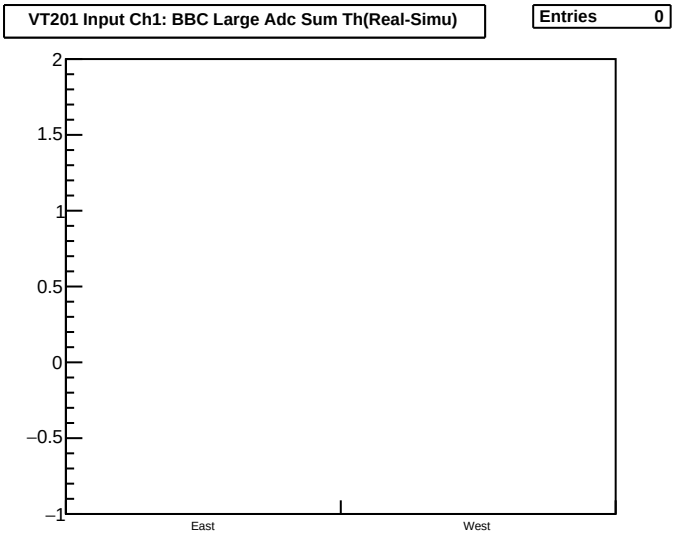

VT201 Input Ch0: BBC Small Tac Diff
Entries 2995
Tac


VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

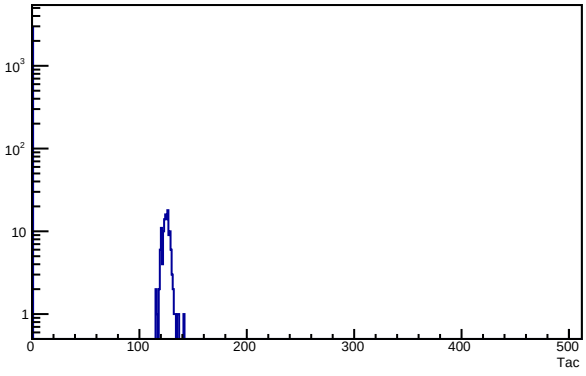

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 8985
2817
2974
2995
178
21
TAC-Sum
East
West


VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
TAC-sum
East
West

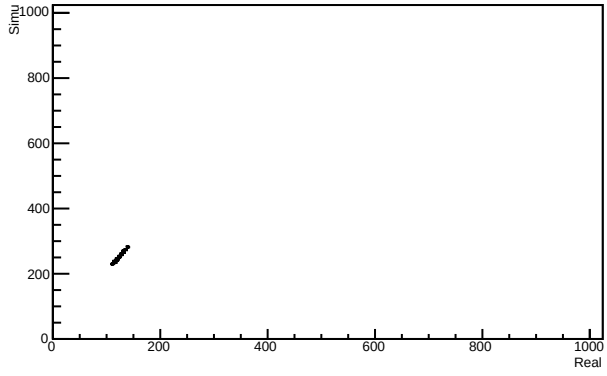

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 5990
2839
2855
156
140
East
West


VT201 Input Ch1: BBC Large Adc Sum Th(Real-Simu)
Entries 0
East
West

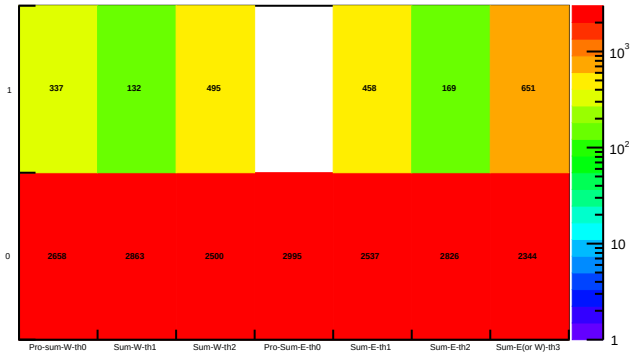
**VT201 Input Ch2: ZDC Tac Diff**



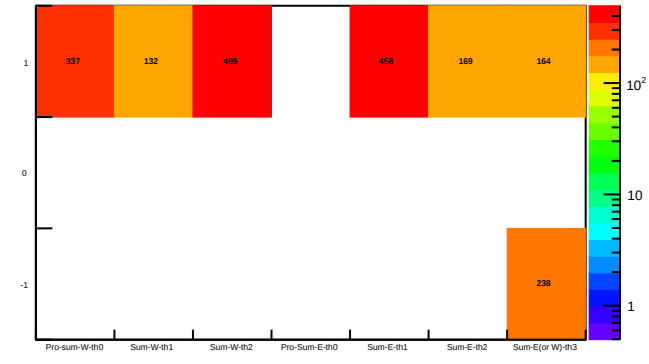

**VT201 Input Ch2: ZDC Tac Diff**



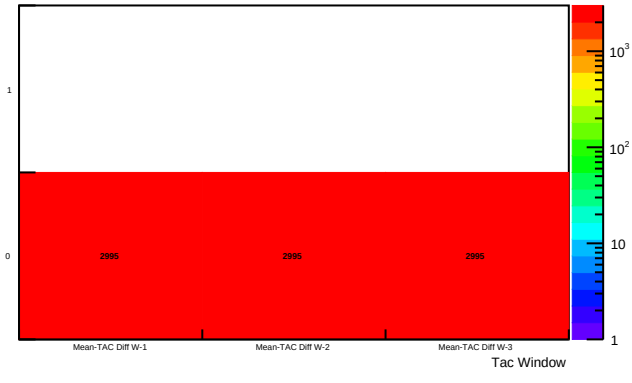

**VT201 Input Ch2: ZDC Adc Sum Th**



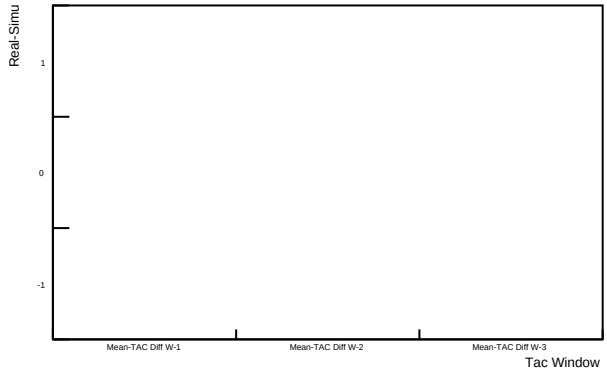

**VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)**



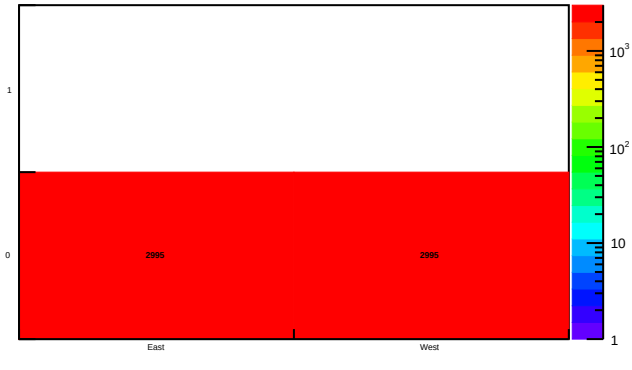

**VT201 Input Ch4: VPD Tac Diff**



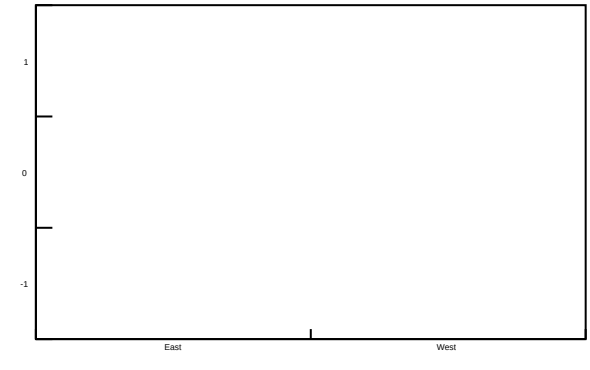

**VT201 Input Ch4: VPD Tac Diff**

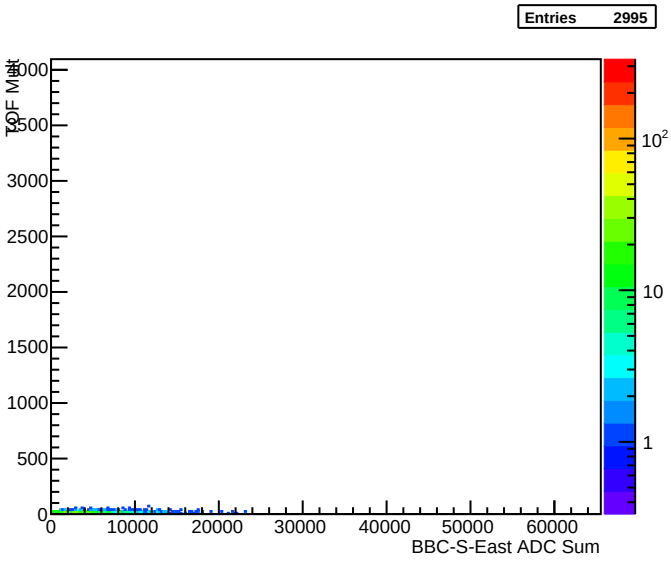


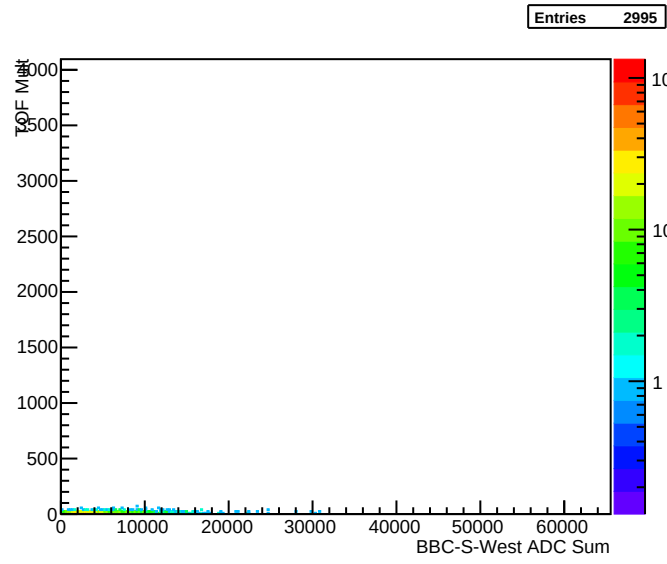

**VT201 Input Ch4: VPD Adc Sum Th**

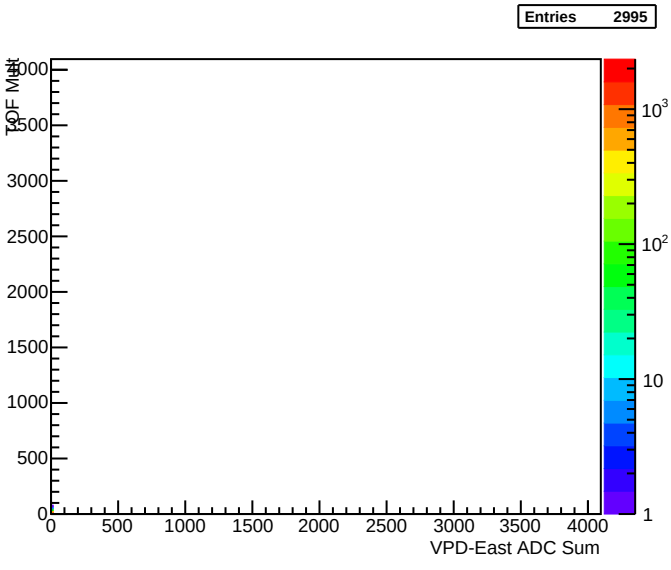


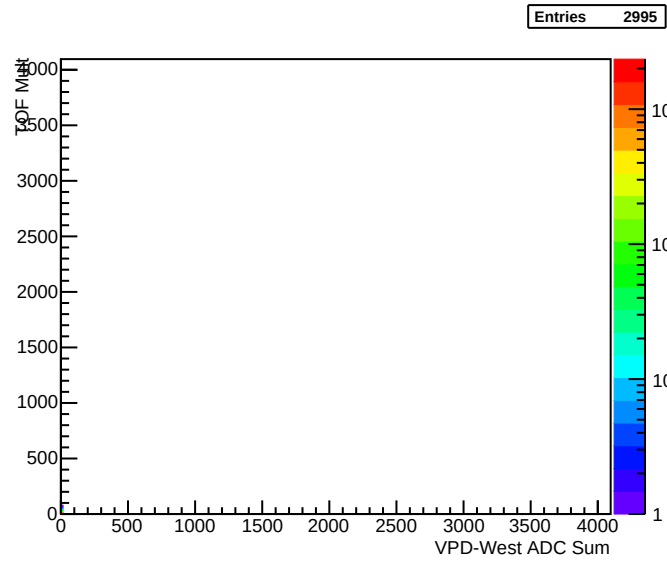

**VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)**

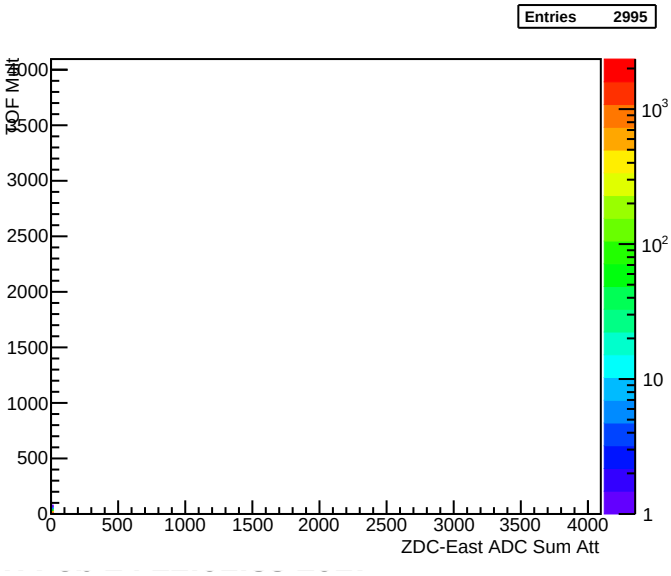


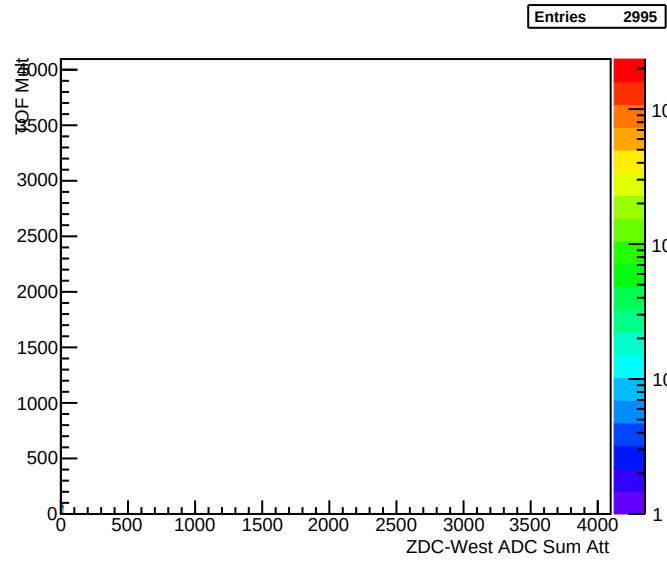

Entries 2995
TOF Mult
BBC-S-East ADC Sum

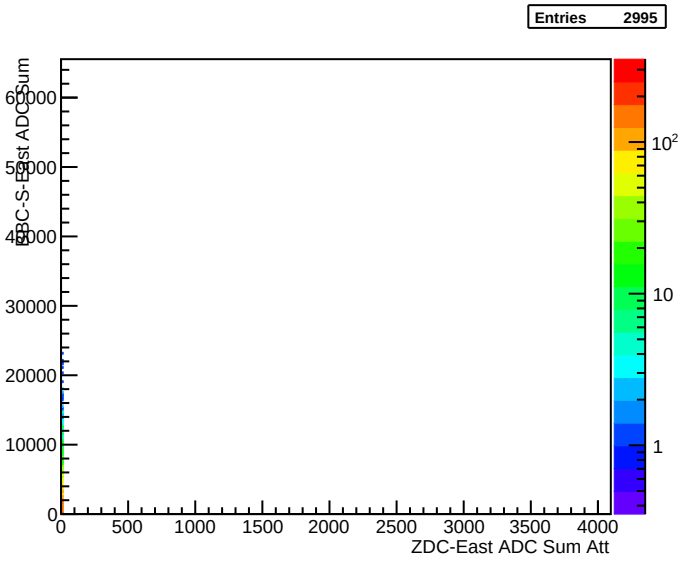

Entries 2995
TOF Mult
BBC-S-West ADC Sum

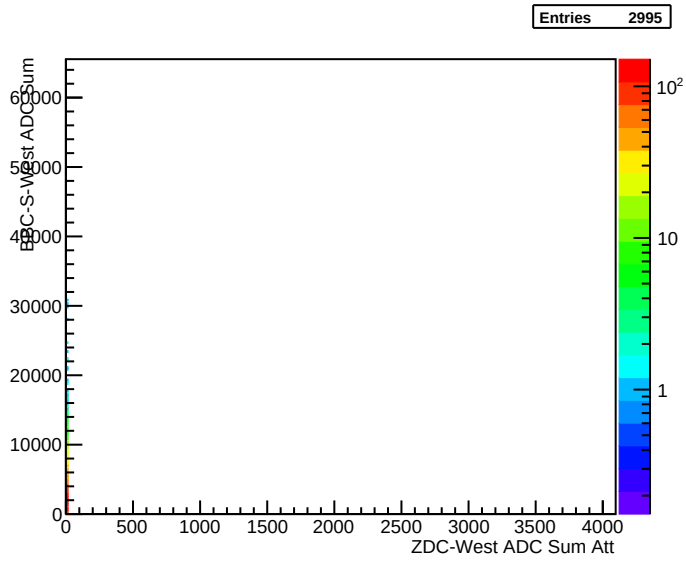

Entries 2995
TOF Mult
VPD-East ADC Sum

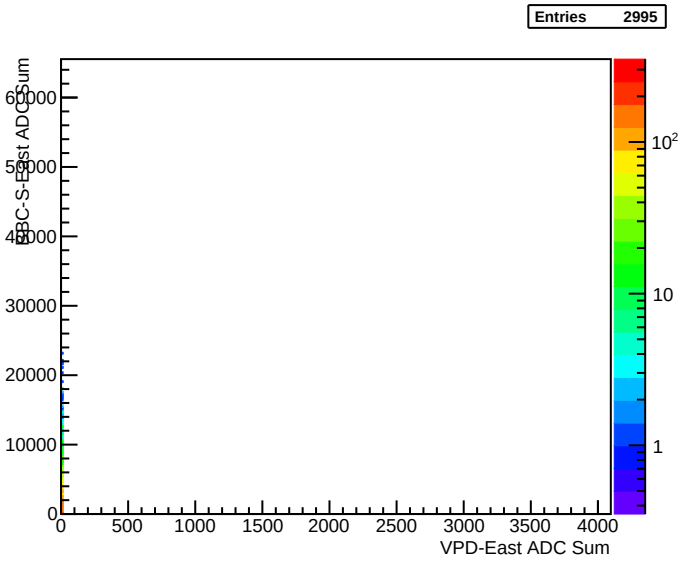

Entries 2995
TOF Mult
VPD-West ADC Sum

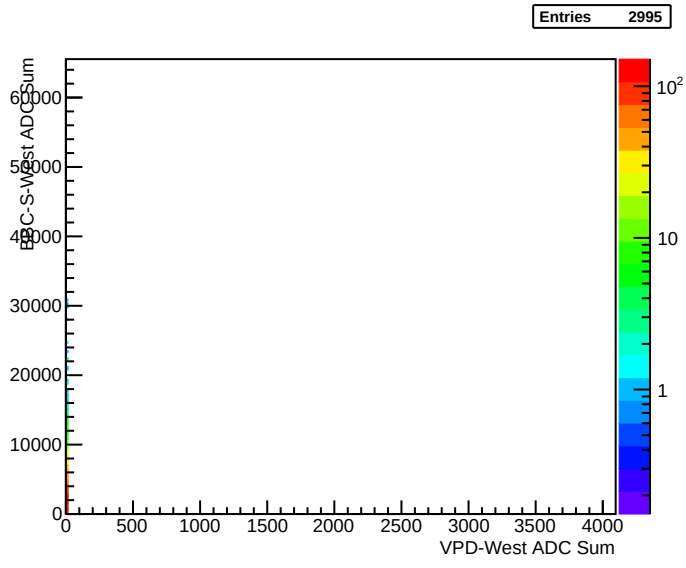

Entries 2995
TOF Mult
ZDC-East ADC Sum Att

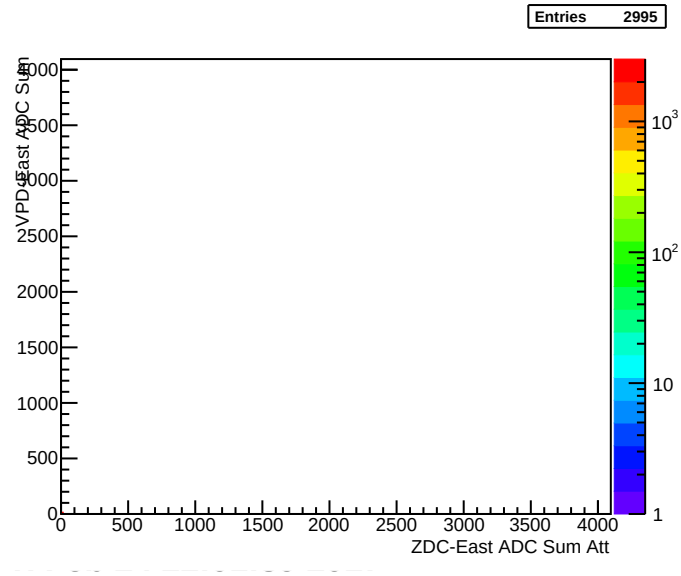

Entries 2995
TOF Mult
ZDC-West ADC Sum Att

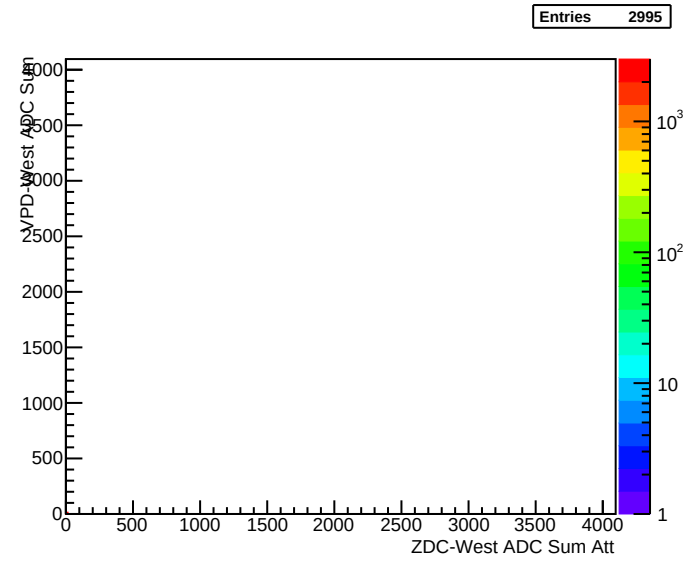

Entries 2995
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

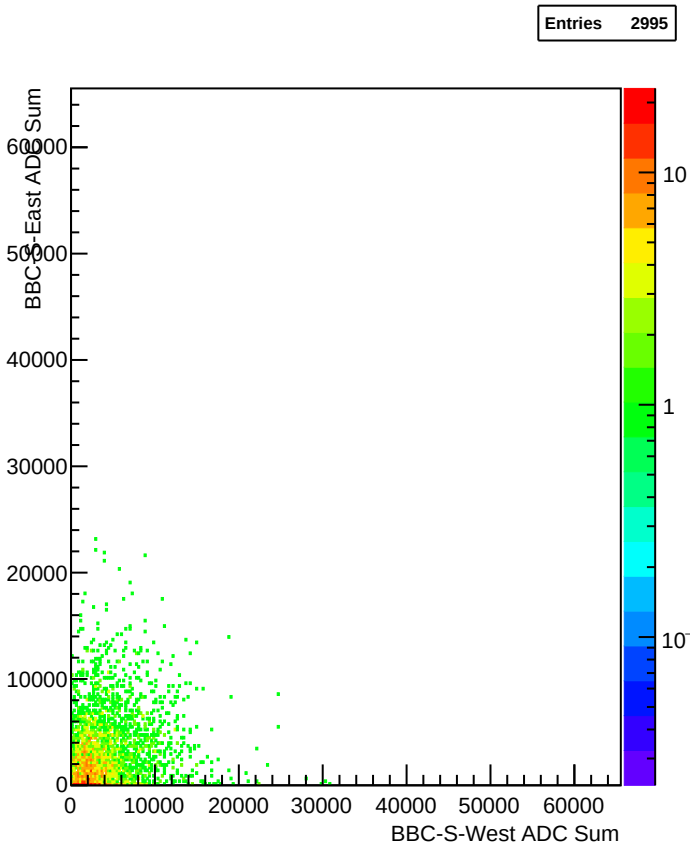

Entries 2995
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

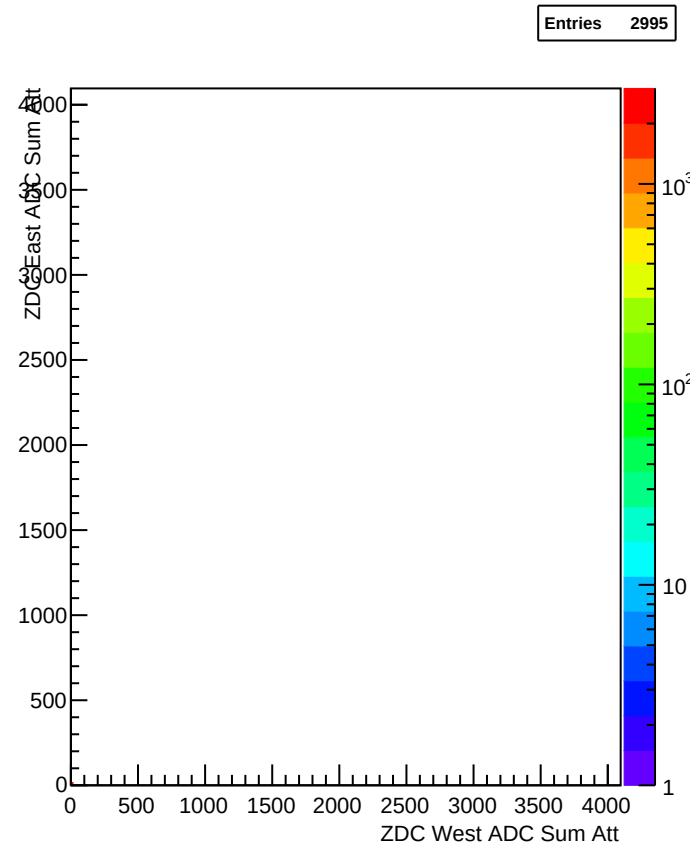

Entries 2995
BBC-S-East ADC Sum
VPD-East ADC Sum

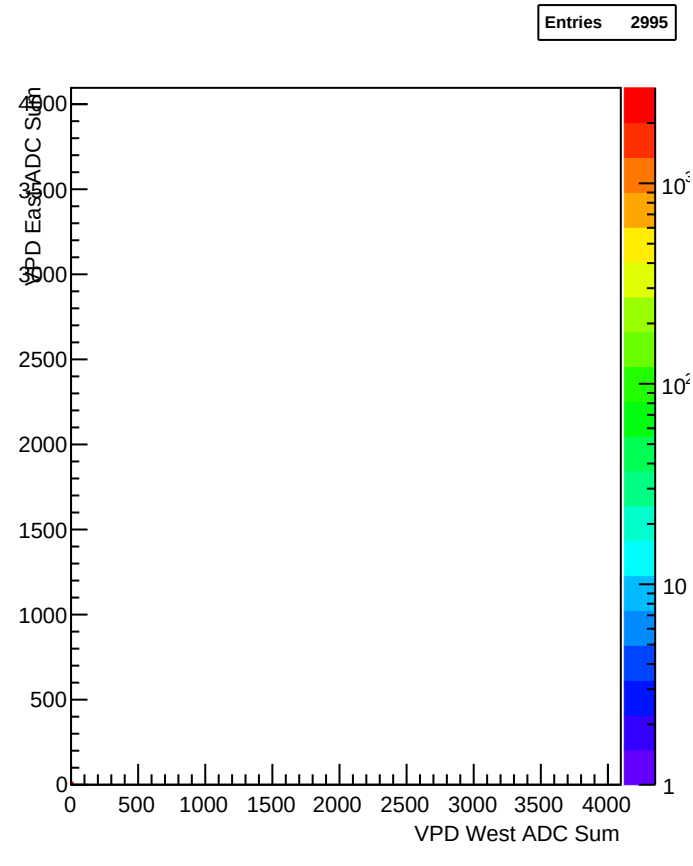

Entries 2995
BBC-S-West ADC Sum
VPD-West ADC Sum

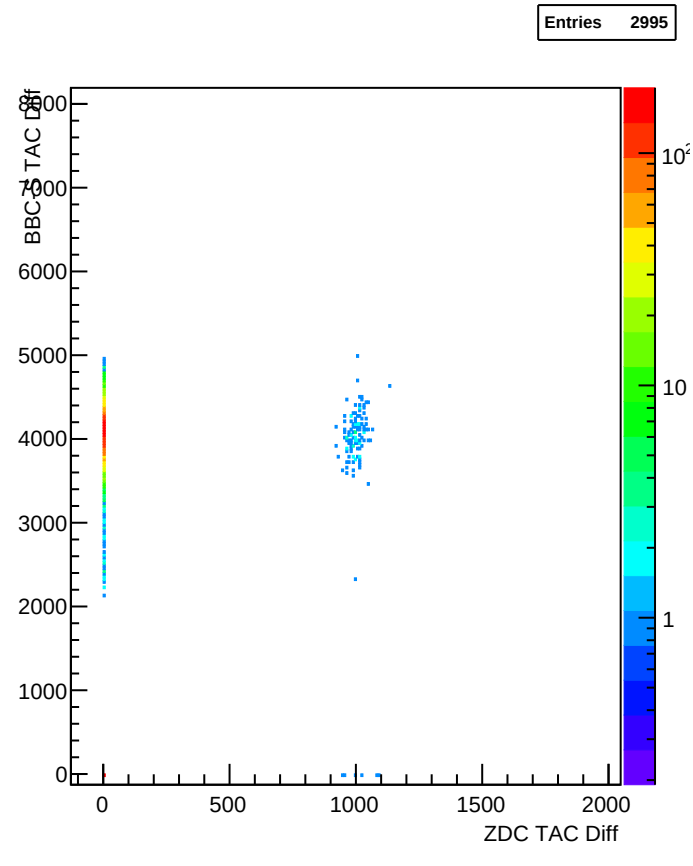

Entries 2995
VPD-East ADC Sum
ZDC-East ADC Sum Att

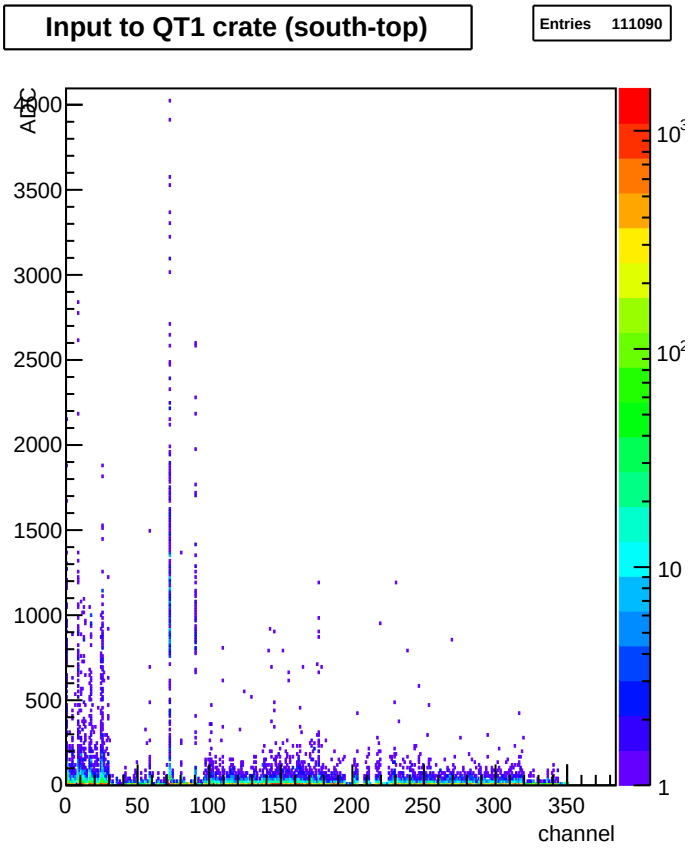

Entries 2995
VPD-West ADC Sum
ZDC-West ADC Sum Att

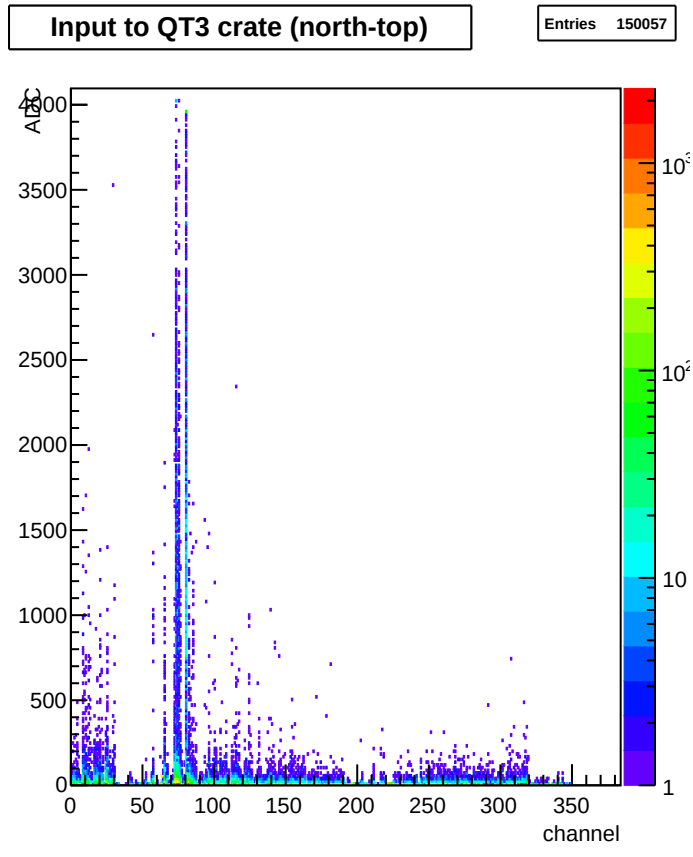

Entries 2995
BBC-S-East ADC Sum
BBC-S-West ADC Sum

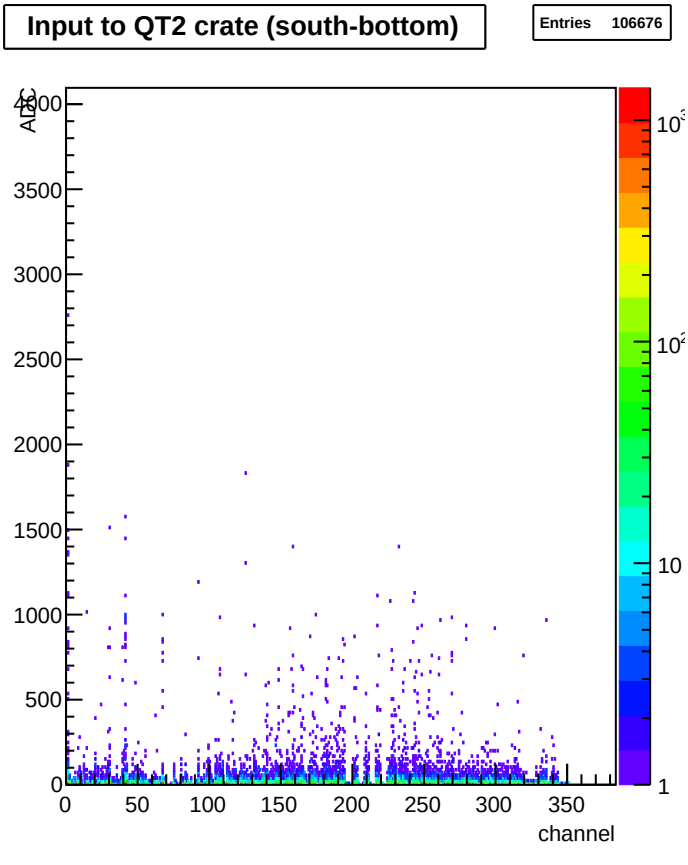

Entries 2995
ZDC East ADC Sum Att
ZDC West ADC Sum Att

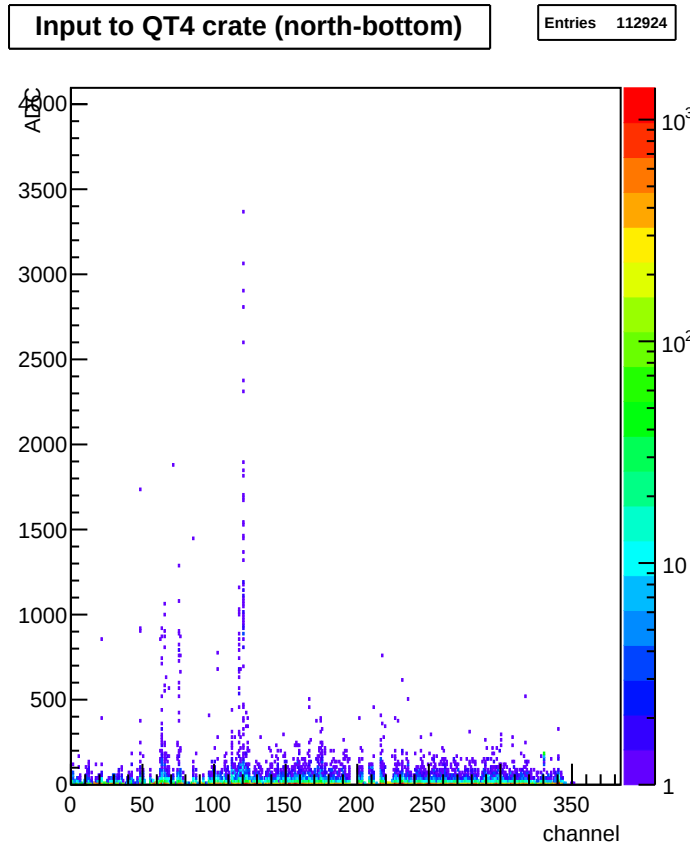

Entries 2995
VPD East ADC Sum
VPD West ADC Sum

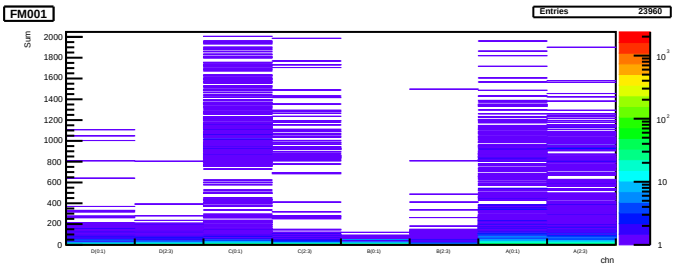

Entries 2995
BBC-S TAC Diff
ZDC TAC Diff

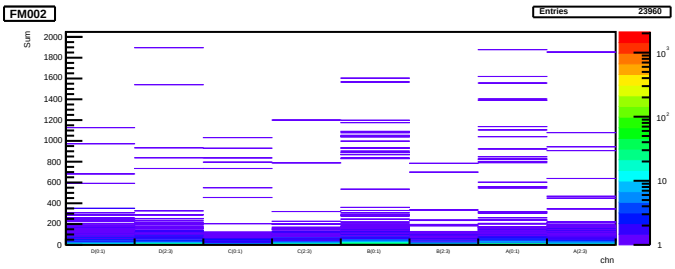

Input to QT1 crate (south-top)
Entries 111090
ADC
channel

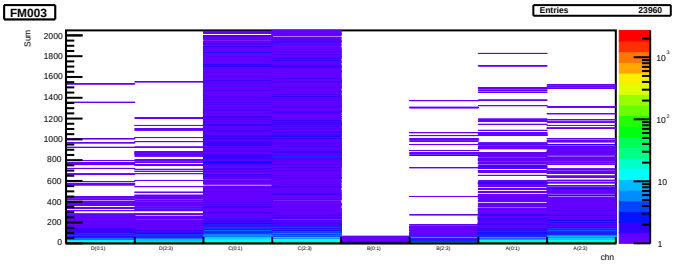

Input to QT3 crate (north-top)
Entries 150057
ADC
channel

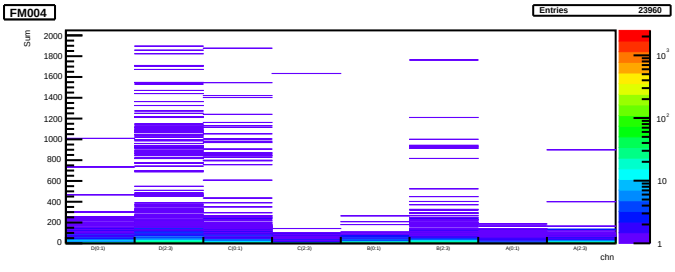

Input to QT2 crate (south-bottom)
Entries 106676
ADC
channel

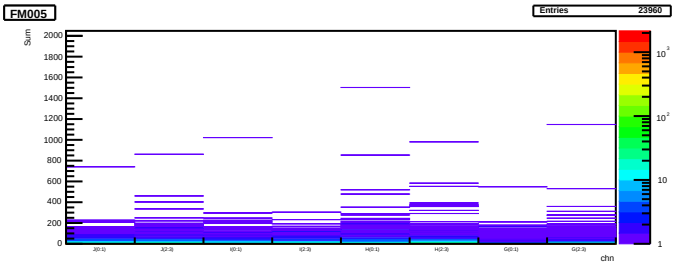

Input to QT4 crate (north-bottom)
Entries 112924
ADC
channel

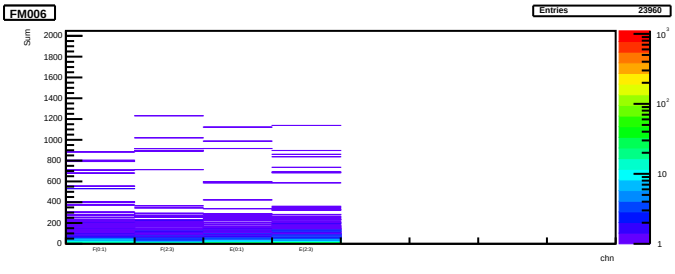

FM001
Entries 23960
Sum
chn

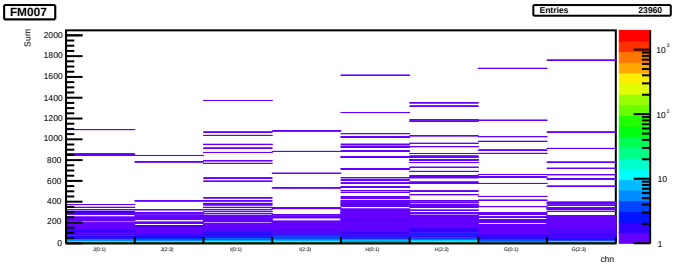

FM002
Entries 23960
Sum
chn

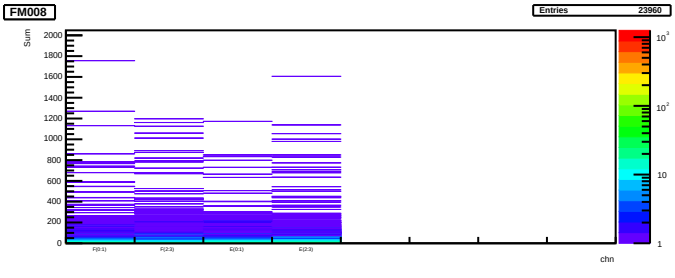

FM003
Entries 23960
Sum
chn

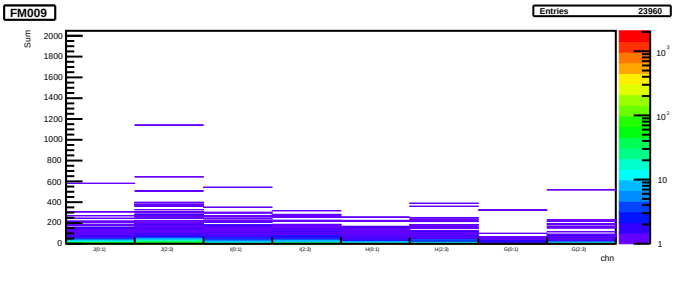

FM004
Entries 23960
Sum
chn

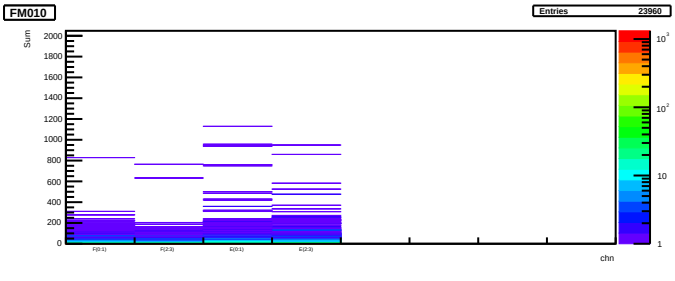

FM005
Entries 23960
Sum
chn

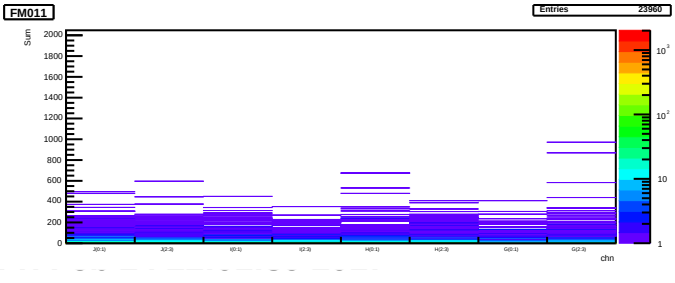

FM006
Entries 23960
Sum
chn

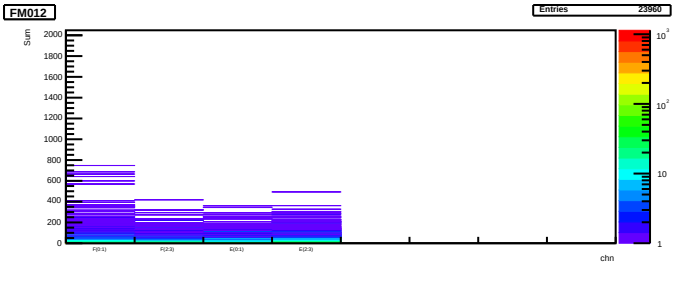

FM007
Entries 23960
Sum
chn

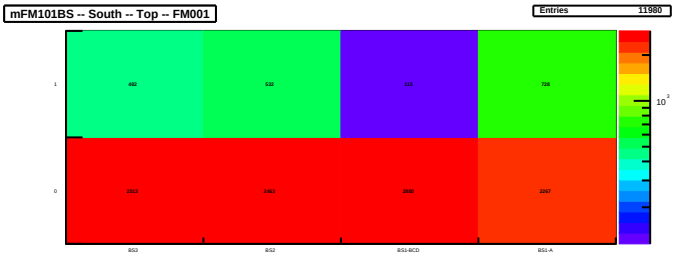

FM008
Entries 23960
Sum
chn

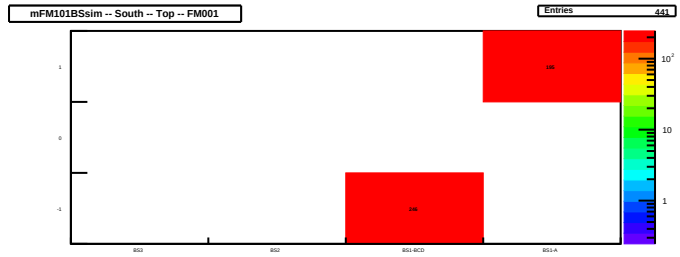

FM009
Entries 23960
Sum
chn

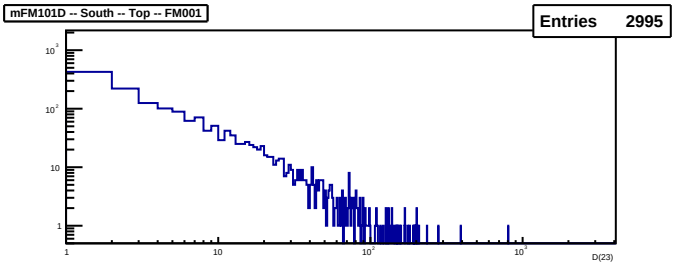

FM010
Entries 23960
Sum
chn

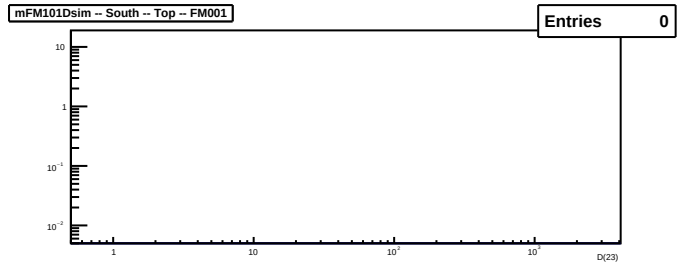

FM011
Entries 23960
Sum
chn

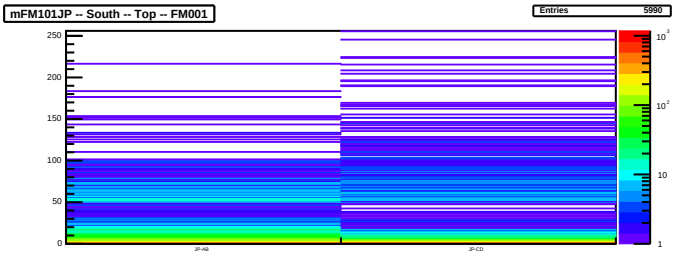

FM012
Entries 23960
Sum
chn

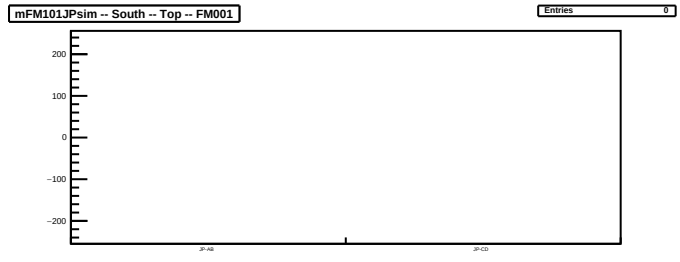

mFM101BS -- South -- Top -- FM001
Entries 11980
482
532
115
708
2513
2463
2890
2267
BS3
BS2
BS1-BCD
BS1-A

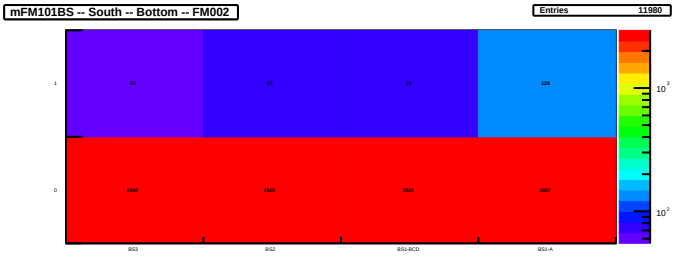

mFM101BSsim -- South -- Top -- FM001
Entries 441
195
246
BS3
BS2
BS1-BCD
BS1-A

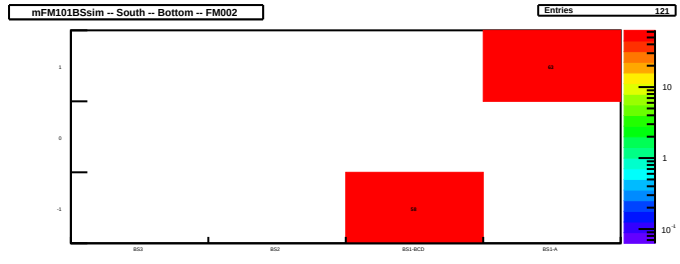

mFM101D -- South -- Top -- FM001
Entries 2995
D(23)

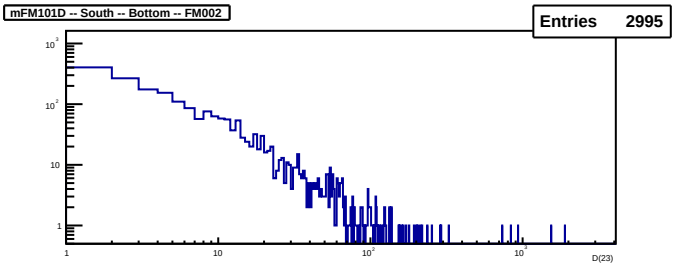

mFM101Dsim -- South -- Top -- FM001
Entries 0
D(23)

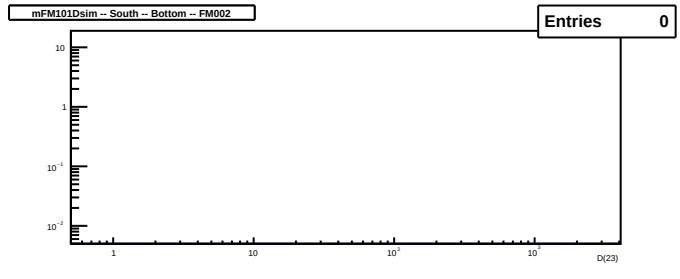

mFM101JP -- South -- Top -- FM001
Entries 5990
JP-AB
JP-CD

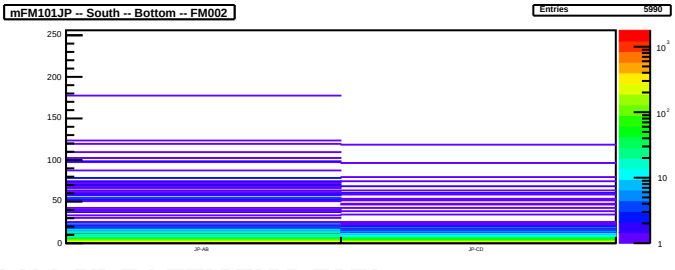

mFM101JPsim -- South -- Top -- FM001
Entries 0
JP-AB
JP-CD

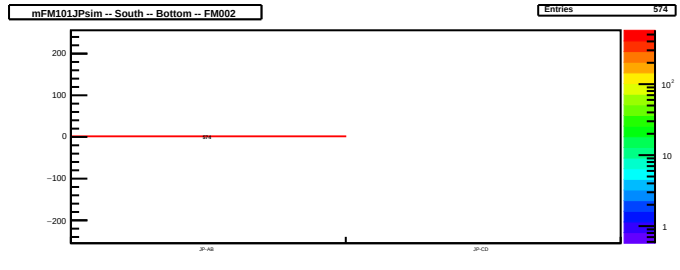

mFM101BS -- South -- Bottom -- FM002
Entries 11980
55
67
71
108
2940
2933
2924
2867
BS3
BS2
BS1-BCD
BS1-A

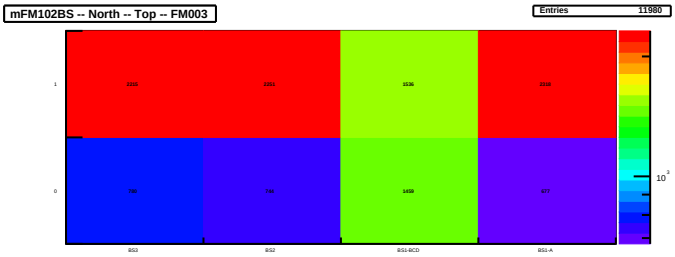

mFM101BSsim -- South -- Bottom -- FM002
Entries 121
63
58
BS3
BS2
BS1-BCD
BS1-A

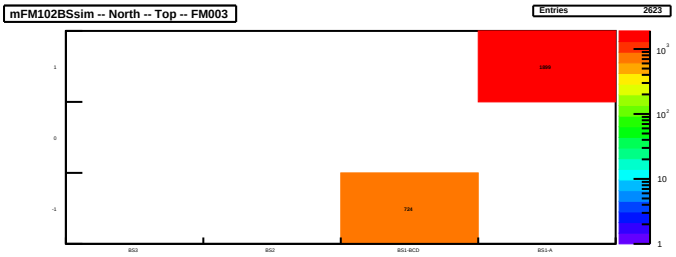

mFM101D -- South -- Bottom -- FM002
Entries 2995
D(23)

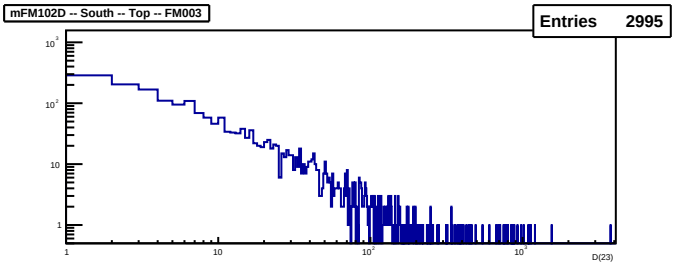

mFM101Dsim -- South -- Bottom -- FM002
Entries 0
D(23)

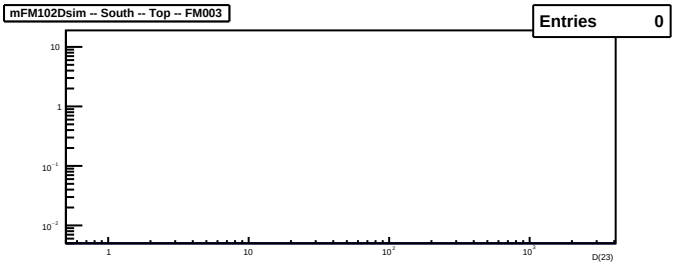

mFM101JP -- South -- Bottom -- FM002
Entries 5990
JP-AB
JP-CD

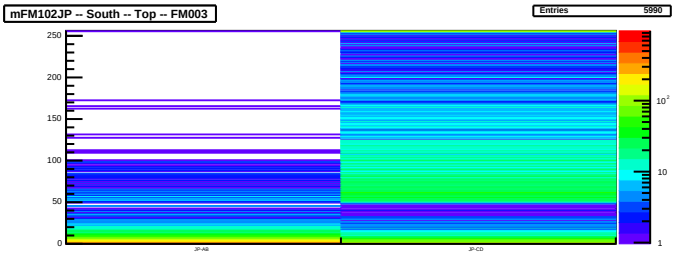

mFM101JPsim -- South -- Bottom -- FM002
Entries 574
574
JP-AB
JP-CD


mFM102BS -- North -- Top -- FM003
Entries 11980

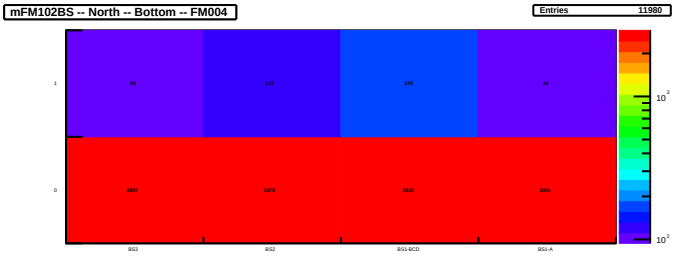

mFM102BSsim -- North -- Top -- FM003
Entries 2623

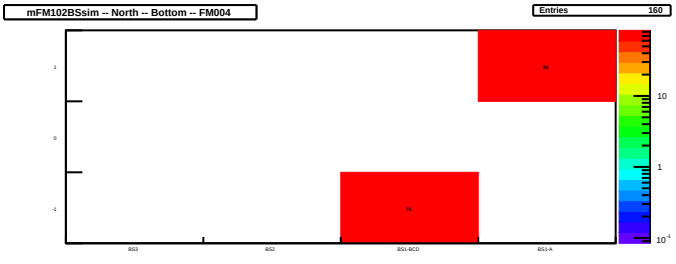

mFM102D -- South -- Top -- FM003
Entries 2995
D(23)

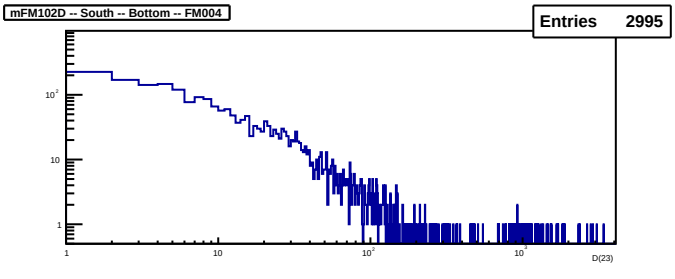

mFM102Dsim -- South -- Top -- FM003
Entries 0
D(23)

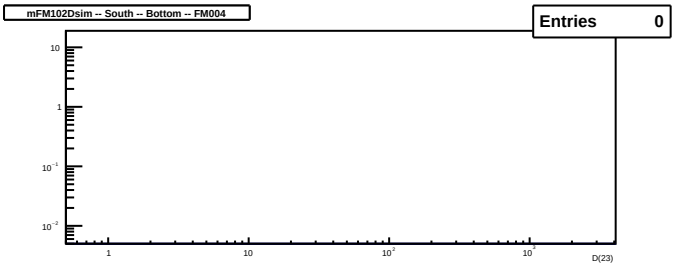

mFM102JP -- South -- Top -- FM003
Entries 5990

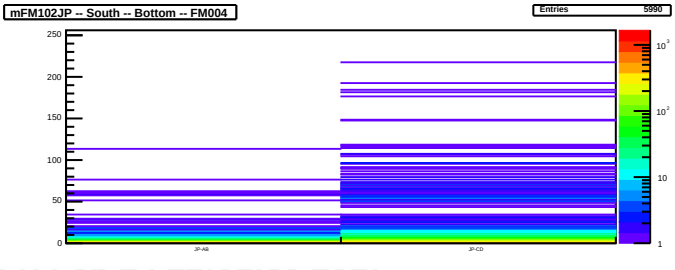
mFM102JPsim -- South -- Top -- FM003
Entries 0

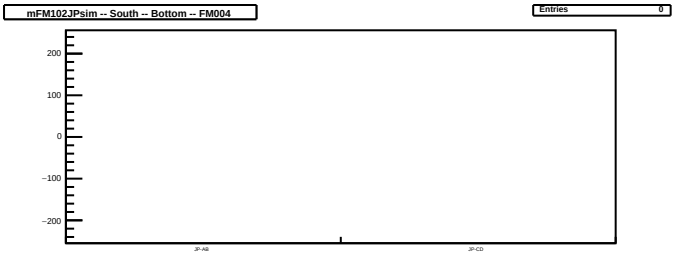

mFM102BS -- North -- Bottom -- FM004
Entries 11980

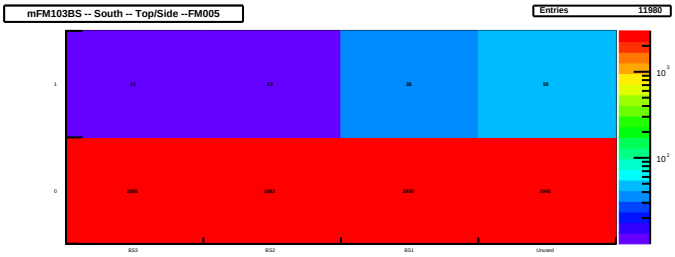

mFM102BSsim -- North -- Bottom -- FM004
Entries 160

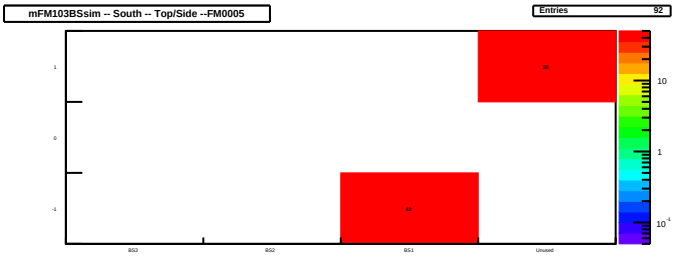

mFM102D -- South -- Bottom -- FM004
Entries 2995
D(23)

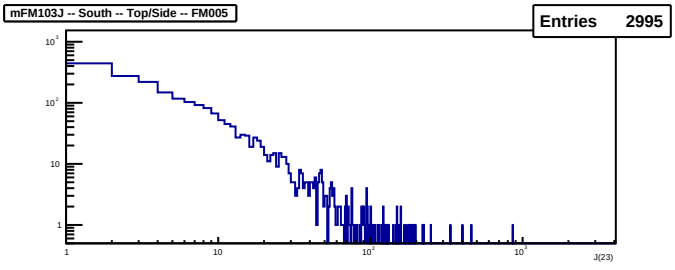

mFM102Dsim -- South -- Bottom -- FM004
Entries 0
D(23)

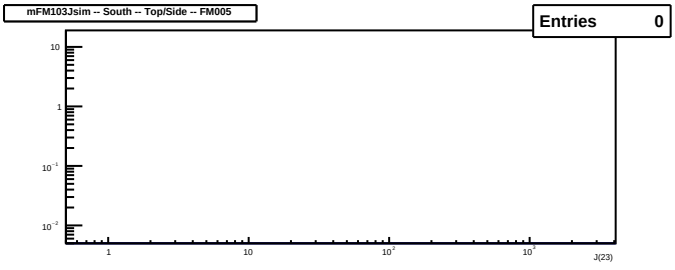

mFM102JP -- South -- Bottom -- FM004
Entries 5990

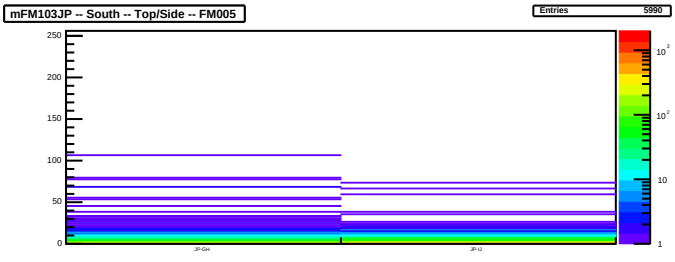

mFM102JPsim -- South -- Bottom -- FM004
Entries 0

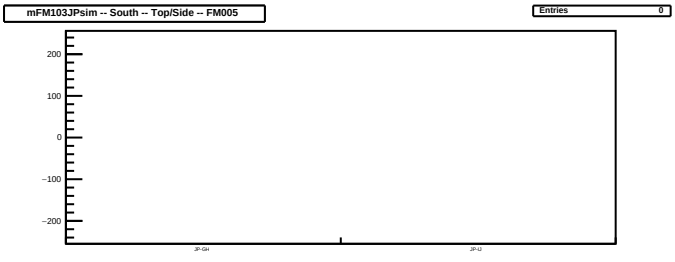

mFM103BS -- South -- Top/Side --FM005
Entries 11980
10
13
36
60
2995
2982
2959
2945
BS3
BS2
BS1
Unused

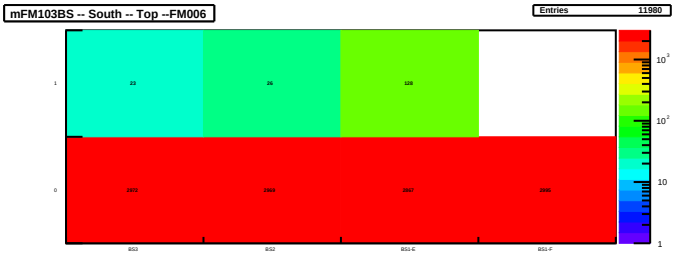

mFM103BSsim -- South -- Top/Side --FM0005
Entries 92
60
42
BS3
BS2
BS1
Unused

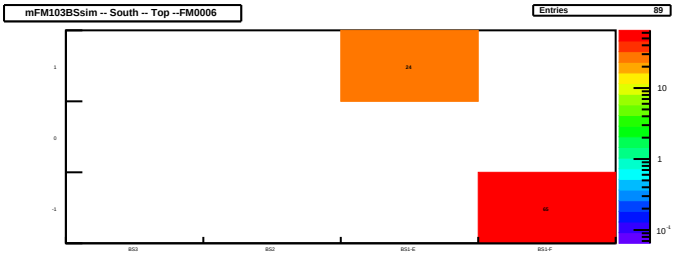

mFM103J -- South -- Top/Side -- FM005
Entries 2995
J(23)

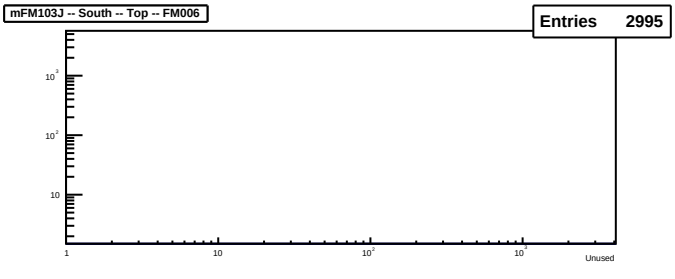

mFM103Jsim -- South -- Top/Side -- FM005
Entries 0
J(23)

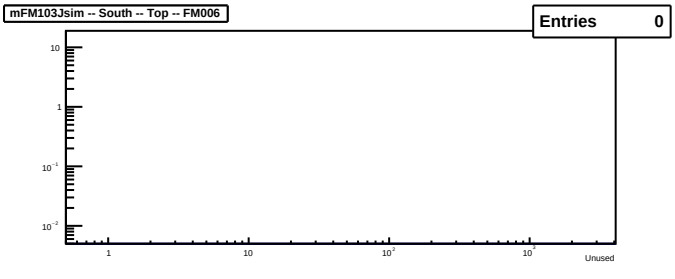

mFM103JP -- South -- Top/Side -- FM005
Entries 5990
JP-GH
JP-IJ

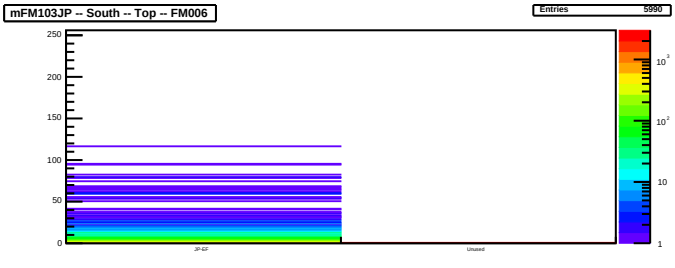

mFM103JPsim -- South -- Top/Side -- FM005
Entries 0
JP-GH
JP-IJ

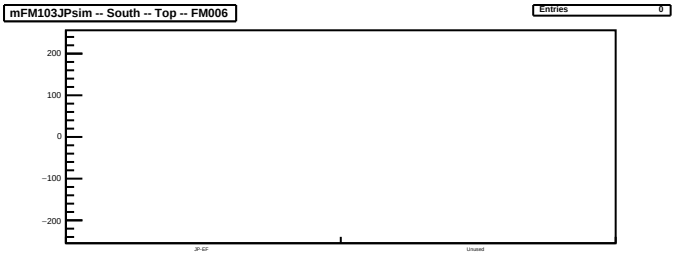

mFM103BS -- South -- Top --FM006
Entries 11980
23
26
128
2972
2963
2867
2995
BS3
BS2
BS1-E
BS1-F

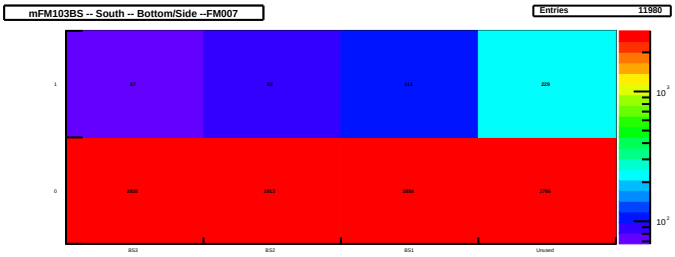

mFM103BSsim -- South -- Top --FM0006
Entries 89
24
65
BS3
BS2
BS1-E
BS1-F

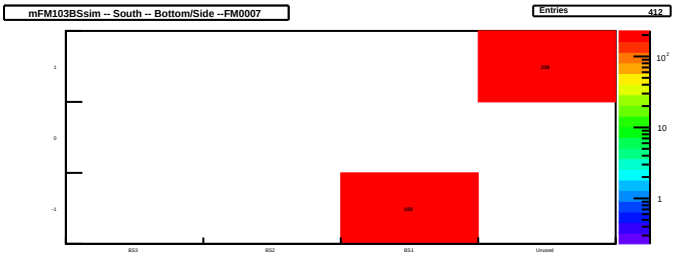

mFM103J -- South -- Top -- FM006
Entries 2995
Unused

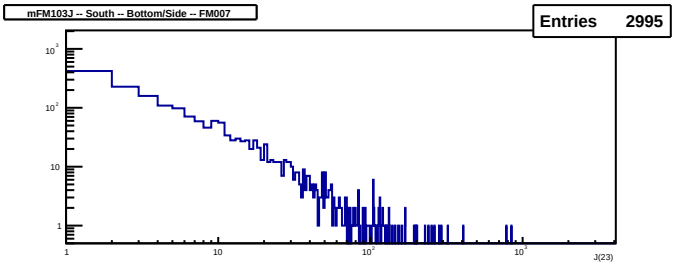

mFM103Jsim -- South -- Top -- FM006
Entries 0
Unused

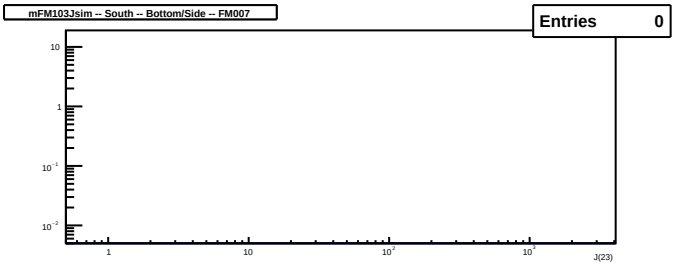

mFM103JP -- South -- Top -- FM006
Entries 5990
JP-EF
Unused

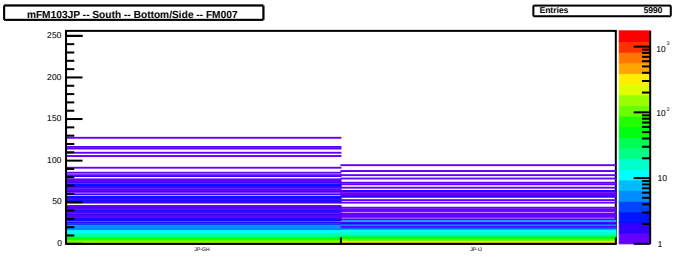

mFM103JPsim -- South -- Top -- FM006
Entries 0
JP-EF
Unused

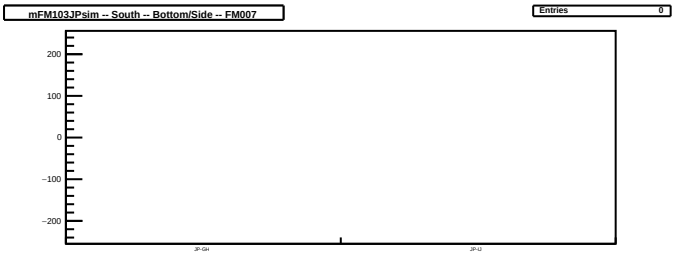

mFM103BS -- South -- Bottom/Side --FM007
Entries 11980
67
62
111
229
2926
2913
2884
2796
BS3
BS2
BS1
Unused

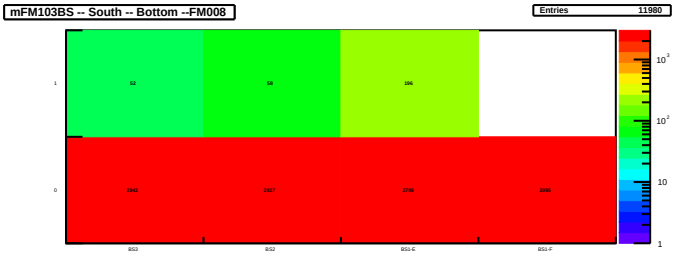

mFM103BSsim -- South -- Bottom/Side --FM0007
Entries 412
229
183
BS3
BS2
BS1
Unused

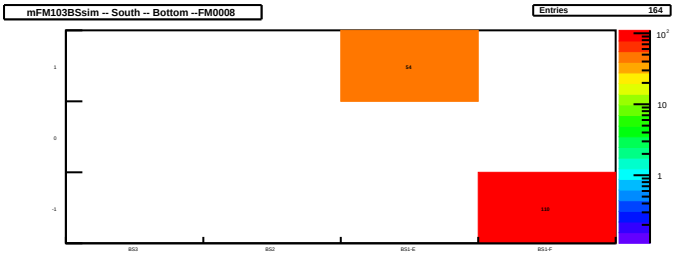

mFM103J -- South -- Bottom/Side -- FM007
Entries 2995
J(23)

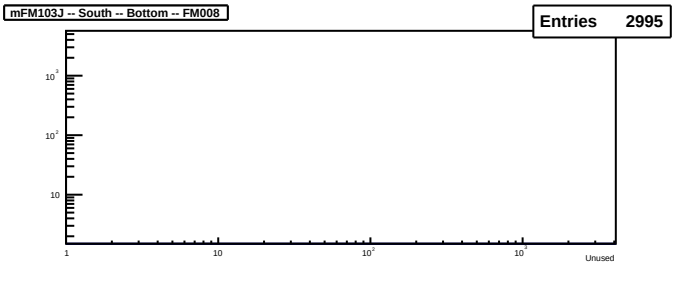

mFM103Jsim -- South -- Bottom/Side -- FM007
Entries 0
J(23)

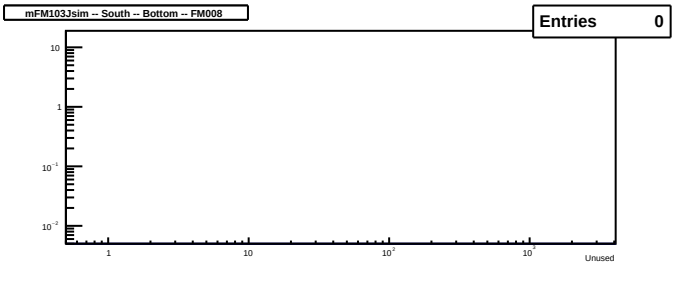

mFM103JP -- South -- Bottom/Side -- FM007
Entries 5990
JP-GH
JP-IJ

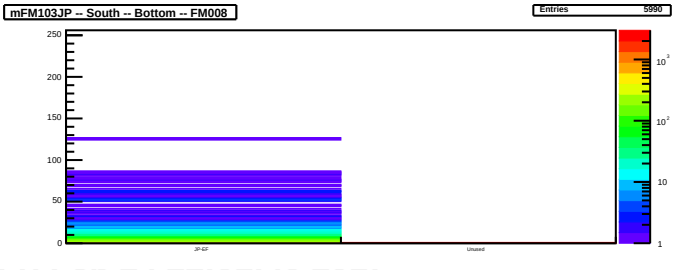

mFM103JPsim -- South -- Bottom/Side -- FM007
Entries 0
JP-GH
JP-IJ

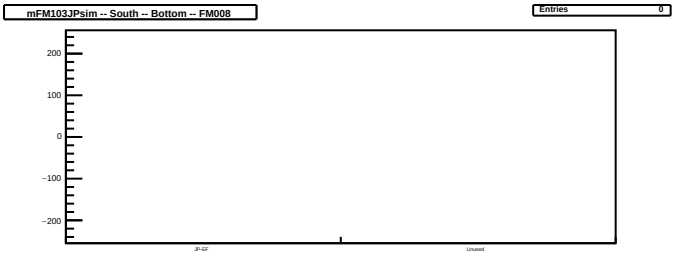

mFM103BS -- South -- Bottom --FM008
Entries 11980
52
58
196
2943
2937
2790
2995
BS3
BS2
BS1-E
BS1-F

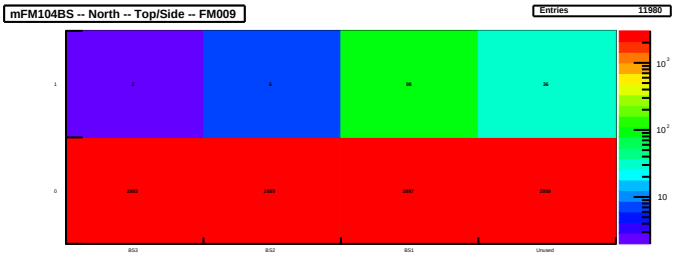

mFM103BSsim -- South -- Bottom --FM0008
Entries 164
54
110
BS3
BS2
BS1-E
BS1-F

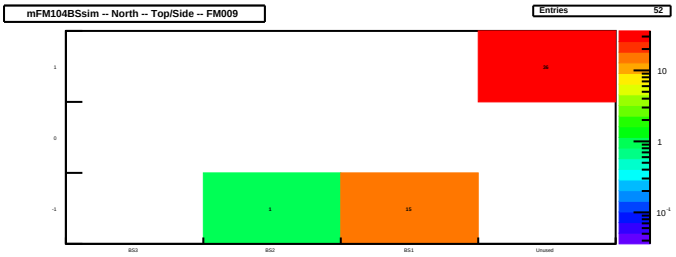

mFM103J -- South -- Bottom -- FM008
Entries 2995
Unused

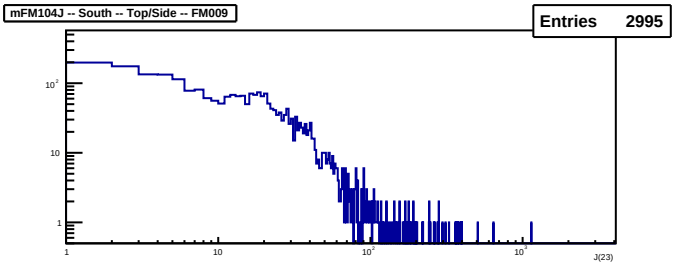

mFM103Jsim -- South -- Bottom -- FM008
Entries 0
Unused

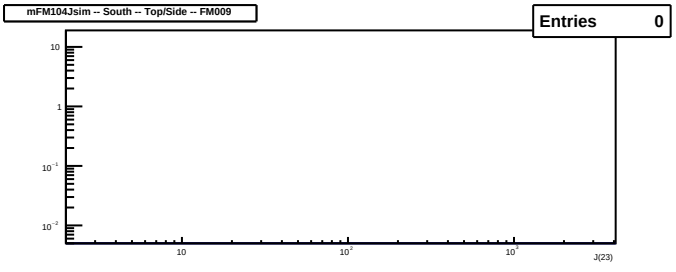

mFM103JP -- South -- Bottom -- FM008
Entries 5990
JP-EF
Unused

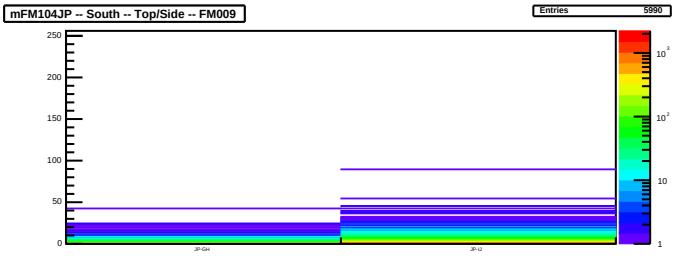

mFM103JPsim -- South -- Bottom -- FM008
Entries 0
JP-EF
Unused

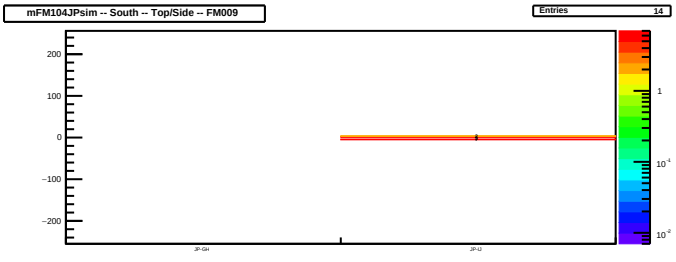

mFM104BS -- North -- Top/Side -- FM009
Entries 11980

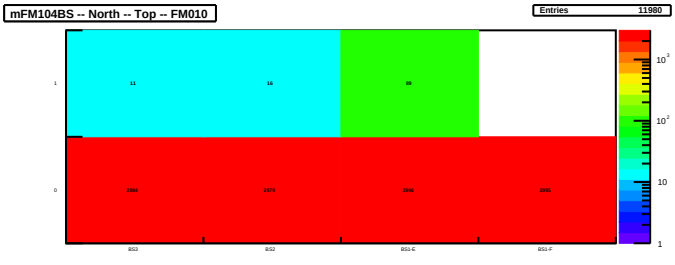

mFM104BSsim -- North -- Top/Side -- FM009
Entries 52

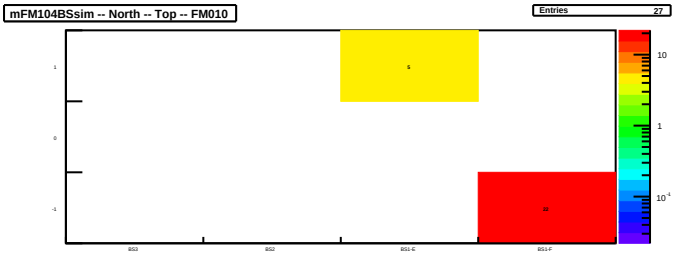

mFM104J -- South -- Top/Side -- FM009
Entries 2995
J(23)

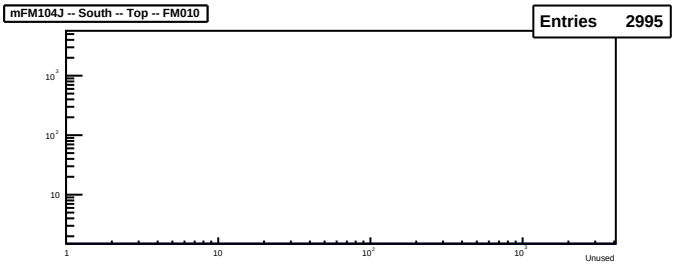

mFM104Jsim -- South -- Top/Side -- FM009
Entries 0
J(23)

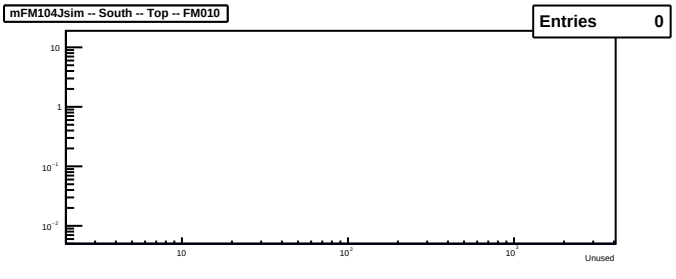

mFM104JP -- South -- Top/Side -- FM009
Entries 5990

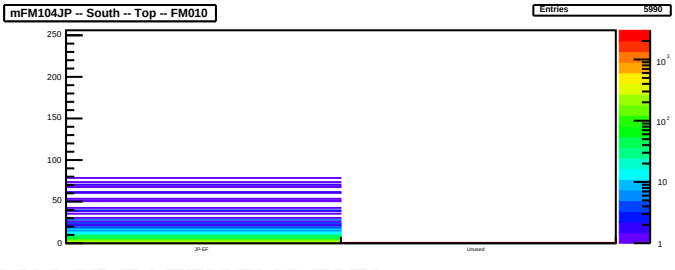

mFM104JPsim -- South -- Top/Side -- FM009
Entries 14

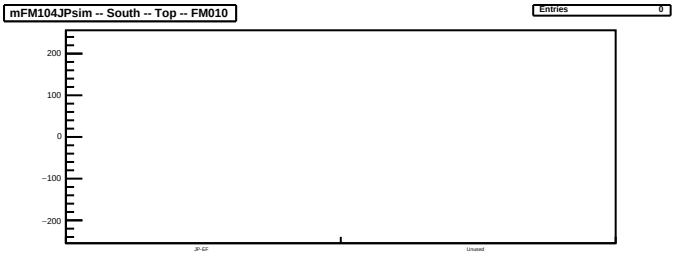

mFM104BS -- North -- Top -- FM010
Entries 11980

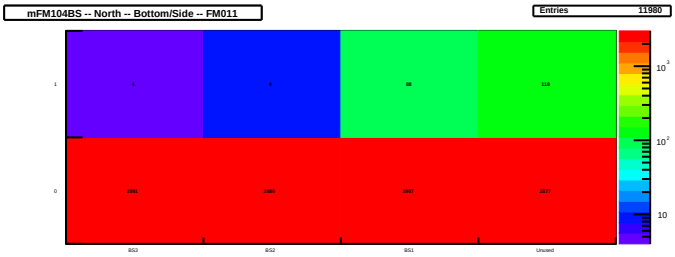

mFM104BSsim -- North -- Top -- FM010
Entries 27

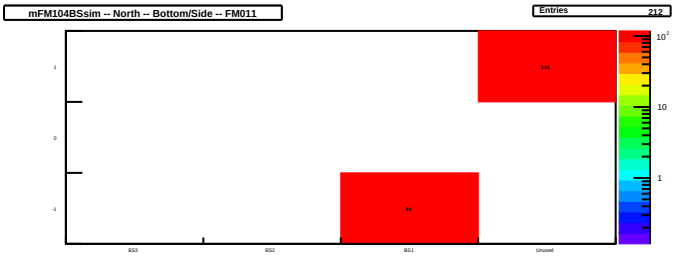

mFM104J -- South -- Top -- FM010
Entries 2995
Unused

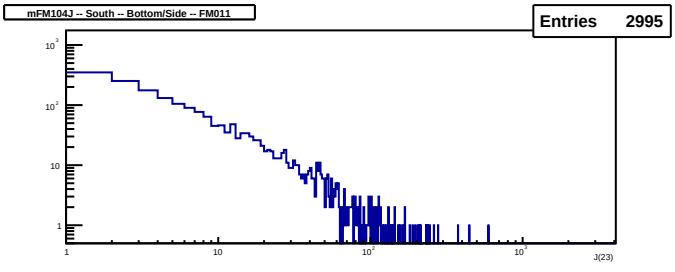

mFM104Jsim -- South -- Top -- FM010
Entries 0
Unused

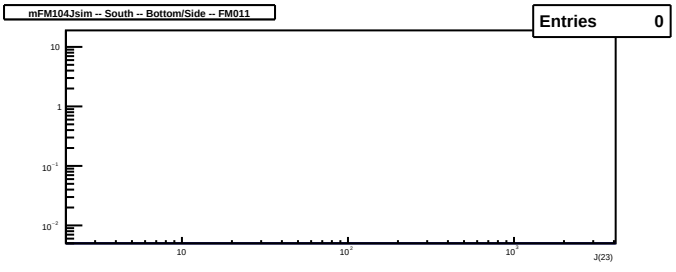

mFM104JP -- South -- Top -- FM010
Entries 5990

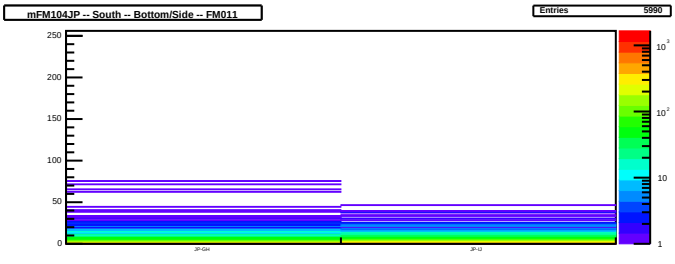

mFM104JPsim -- South -- Top -- FM010
Entries 0

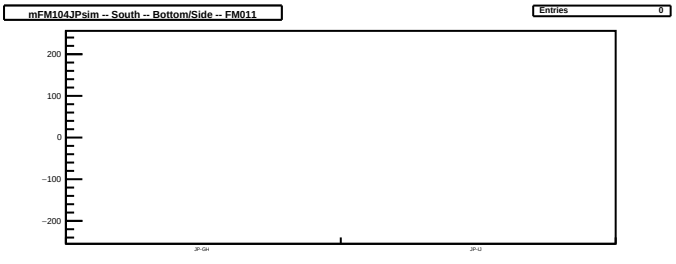

mFM104BS -- North -- Bottom/Side -- FM011
Entries 11980

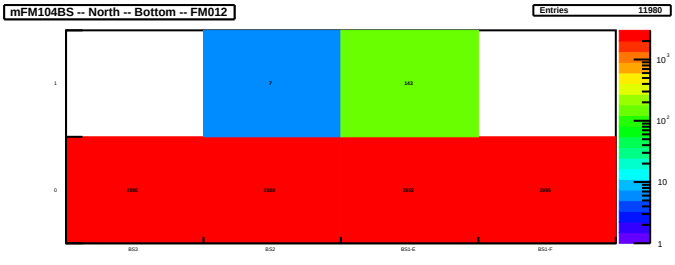

mFM104BSsim -- North -- Bottom/Side -- FM011
Entries 212

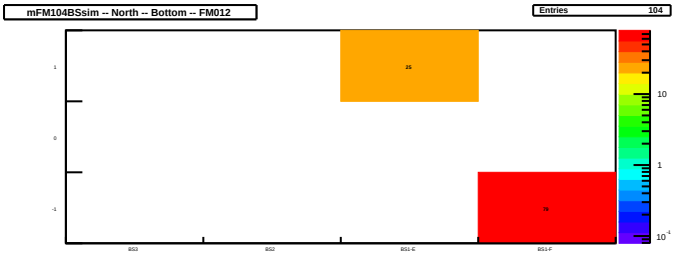

mFM104J -- South -- Bottom/Side -- FM011
Entries 2995
J(23)

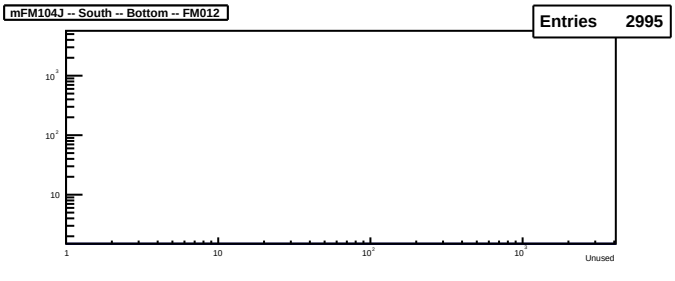

mFM104Jsim -- South -- Bottom/Side -- FM011
Entries 0
J(23)

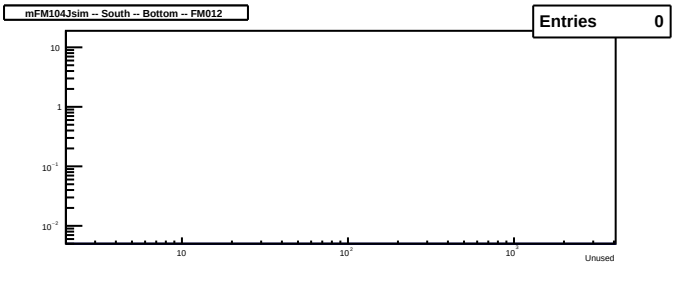

mFM104JP -- South -- Bottom/Side -- FM011
Entries 5990

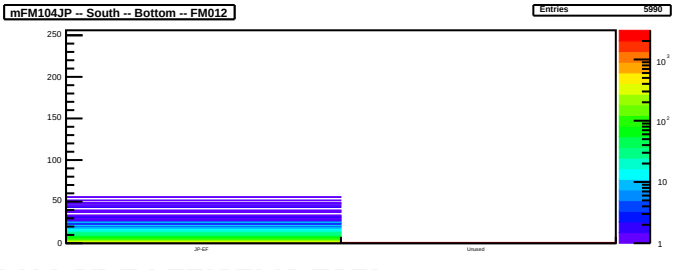

mFM104JPsim -- South -- Bottom/Side -- FM011
Entries 0

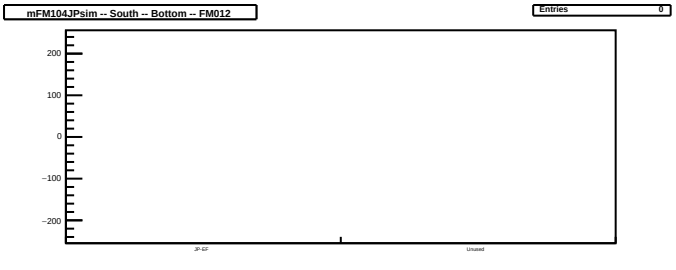

mFM104BS -- North -- Bottom -- FM012
Entries 11980

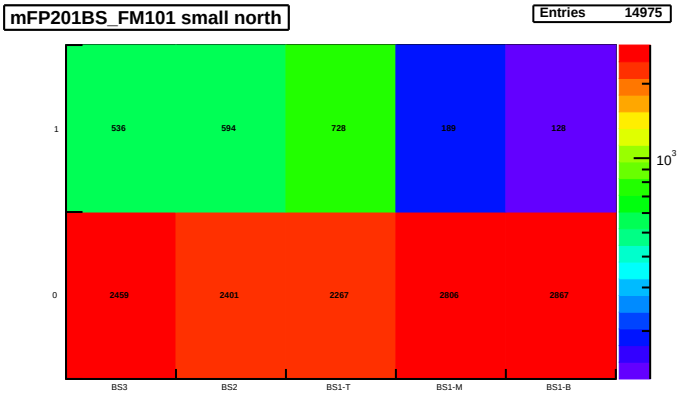

mFM104BSsim -- North -- Bottom -- FM012
Entries 104

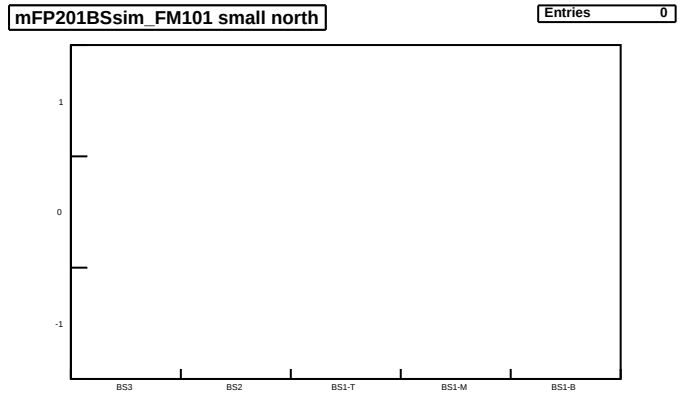

mFM104J -- South -- Bottom -- FM012
Entries 2995
Unused

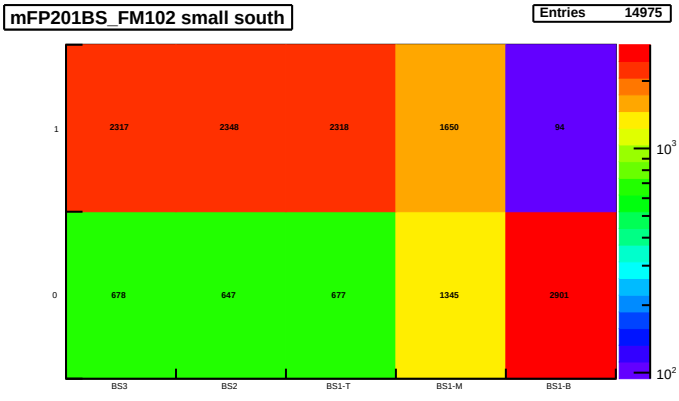

mFM104Jsim -- South -- Bottom -- FM012
Entries 0
Unused

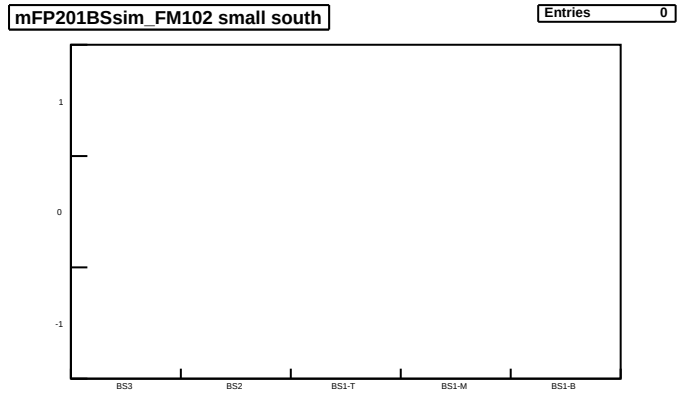

mFM104JP -- South -- Bottom -- FM012
Entries 5990

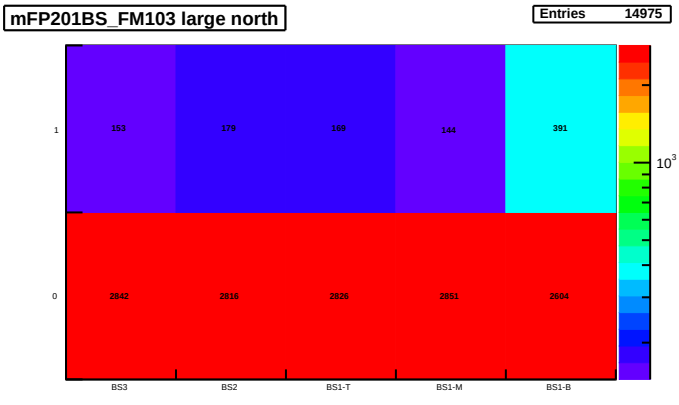

mFM104JPsim -- South -- Bottom -- FM012
Entries 0

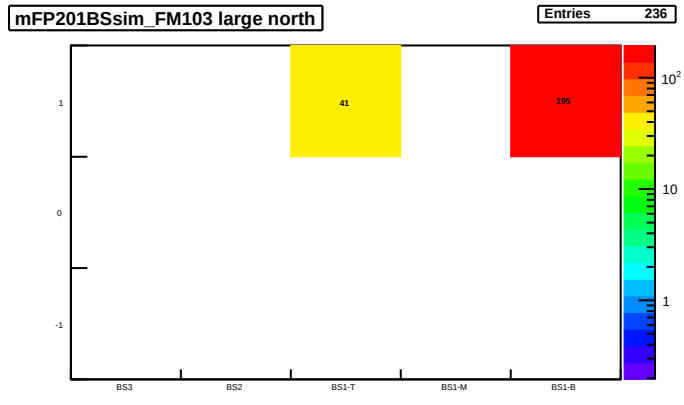

mFP201BS_FM101 small north
Entries 14975
536
594
728
189
128
2459
2401
2267
2806
2867
BS3
BS2
BS1-T
BS1-M
BS1-B

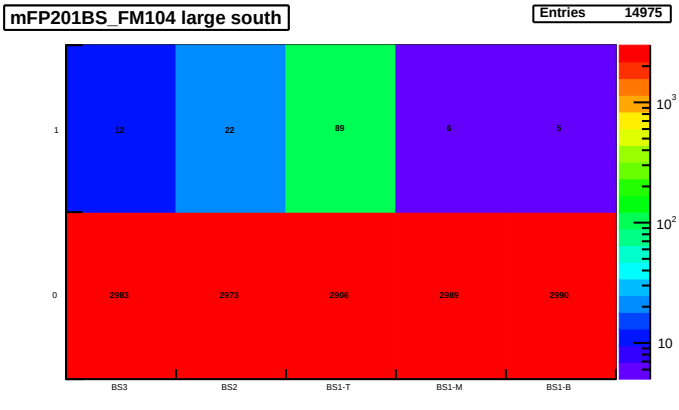

mFP201BSsim_FM101 small north
Entries 0
BS3
BS2
BS1-T
BS1-M
BS1-B

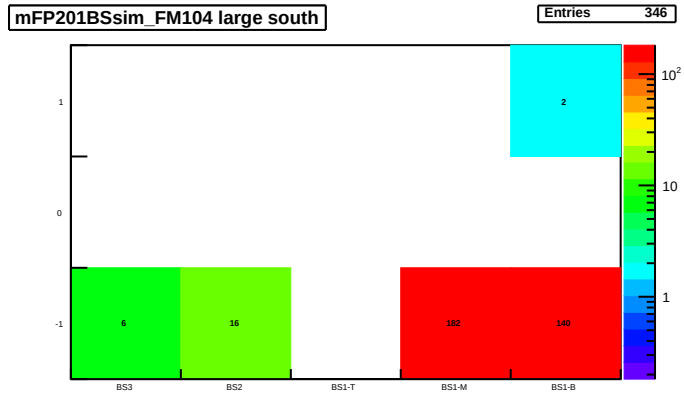

mFP201BS_FM102 small south
Entries 14975
2317
2348
2318
1650
94
678
647
677
1345
2901
BS3
BS2
BS1-T
BS1-M
BS1-B

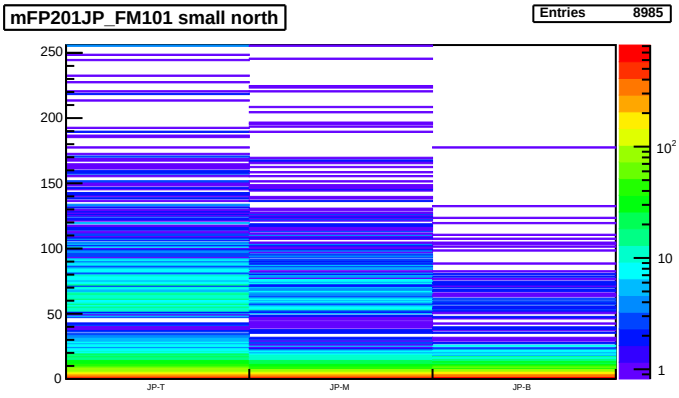

mFP201BSsim_FM102 small south
Entries 0
BS3
BS2
BS1-T
BS1-M
BS1-B

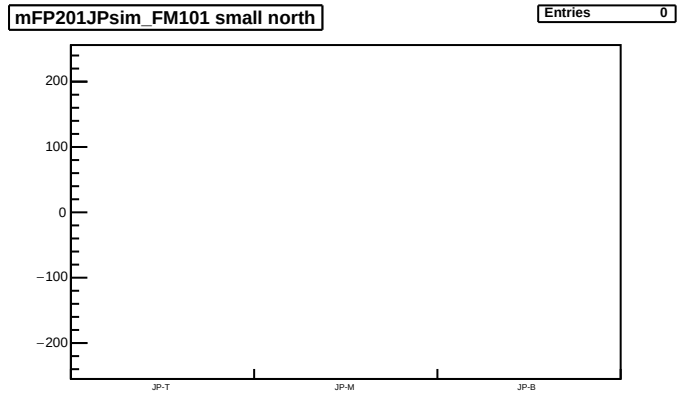

mFP201BS_FM103 large north
Entries 14975
153
179
169
144
391
2842
2816
2826
2851
2604
BS3
BS2
BS1-T
BS1-M
BS1-B

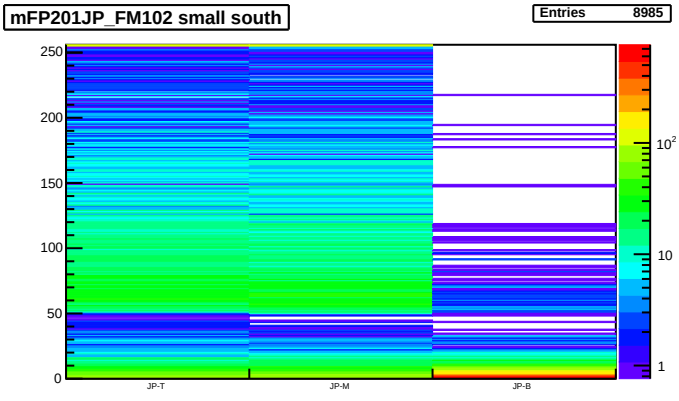

mFP201BSsim_FM103 large north
Entries 236
41
195
BS3
BS2
BS1-T
BS1-M
BS1-B

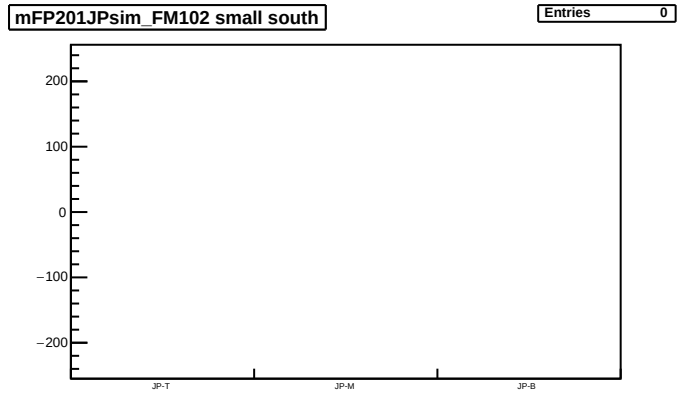

mFP201BS_FM104 large south
Entries 14975
12
22
89
6
5
2983
2973
2906
2989
2990
BS3
BS2
BS1-T
BS1-M
BS1-B

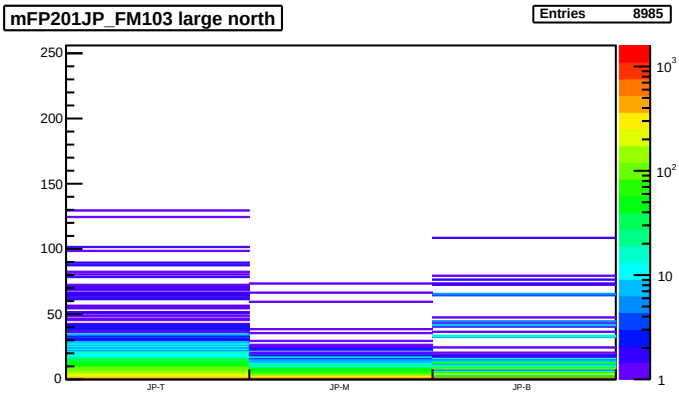

mFP201BSsim_FM104 large south
Entries 346
2
6
16
182
140
BS3
BS2
BS1-T
BS1-M
BS1-B

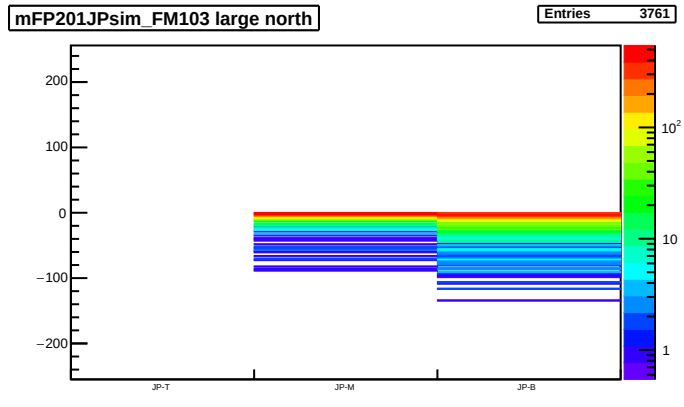

mFP201JP_FM101 small north
Entries 8985
250
200
150
100
50
0
JP-T
JP-M
JP-B
$10^2$
10
1

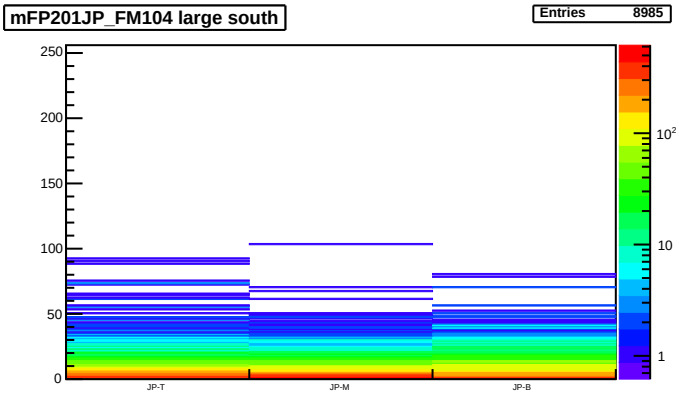

mFP201JPsim_FM101 small north
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

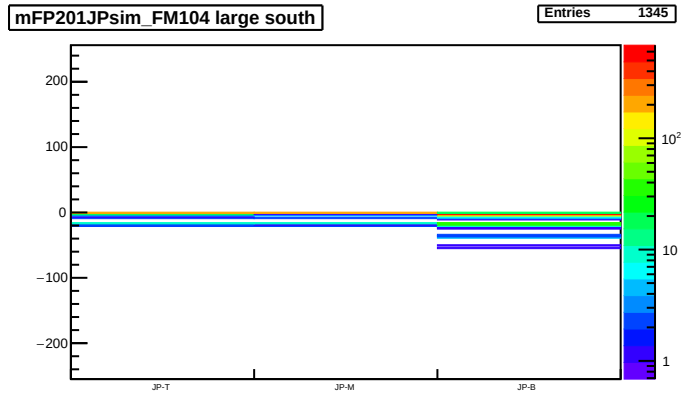

mFP201JP_FM102 small south
Entries 8985
250
200
150
100
50
0
JP-T
JP-M
JP-B
$10^2$
10
1

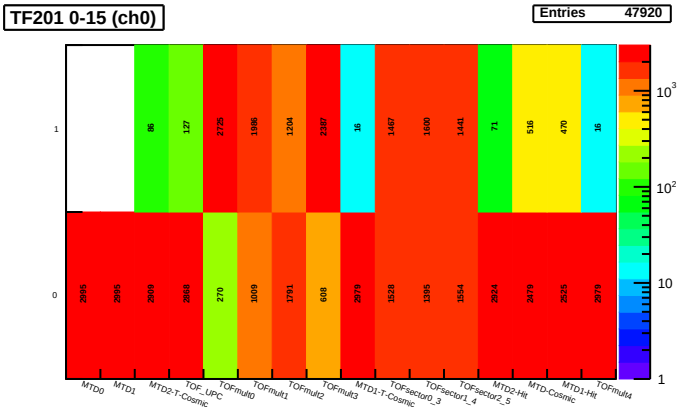

mFP201JPsim_FM102 small south
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

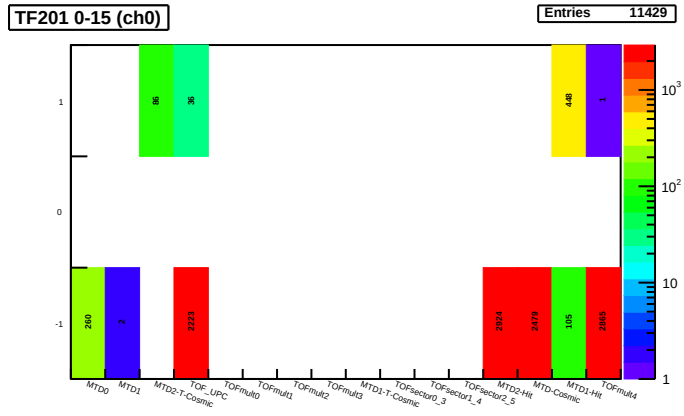

mFP201JP_FM103 large north
Entries 8985
250
200
150
100
50
0
JP-T
JP-M
JP-B
$10^3$
$10^2$
10
1

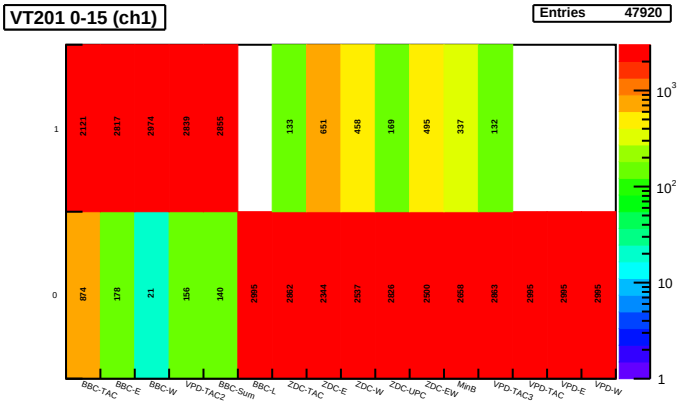

mFP201JPsim_FM103 large north
Entries 3761
200
100
0
−100
−200
JP-T
JP-M
JP-B
$10^2$
10
1

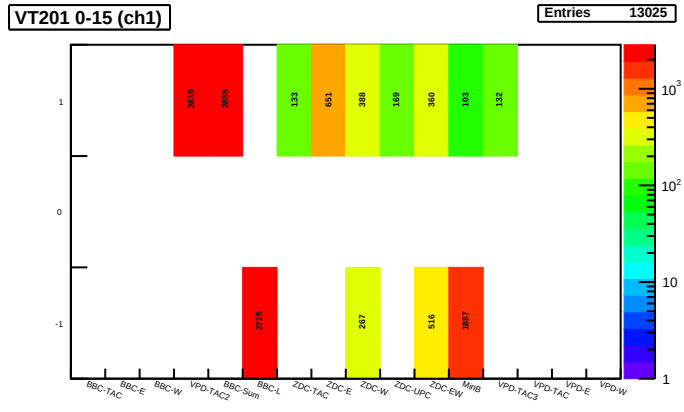

mFP201JP_FM104 large south
Entries 8985
250
200
150
100
50
0
JP-T
JP-M
JP-B
$10^2$
10
1

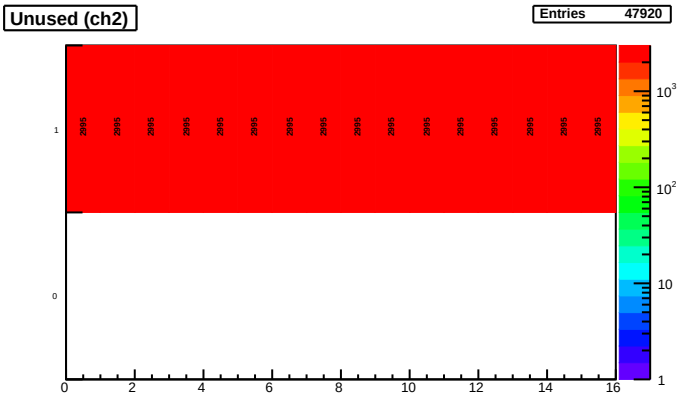

mFP201JPsim_FM104 large south
Entries 1345
200
100
0
−100
−200
JP-T
JP-M
JP-B
$10^2$
10
1

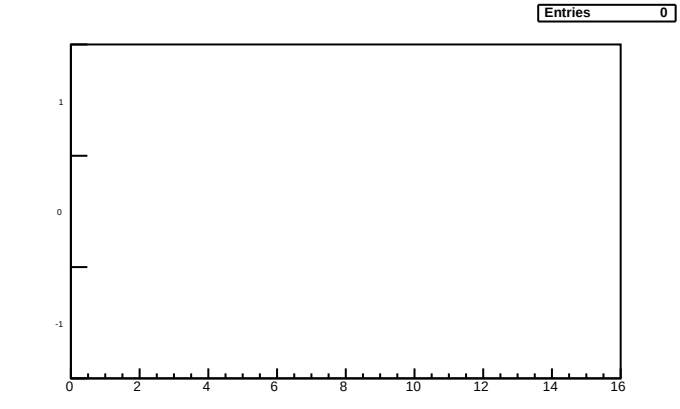

TF201 0-15 (ch0)
Entries 47920
MTD0 MTD1 MTD2-T-Cosmic TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 MTD1-T-Cosmic TOFsector0_3 TOFsector1_4 TOFsector2_5 MTD2-Hit MTD-Cosmic MTD1-Hit TOFmult4

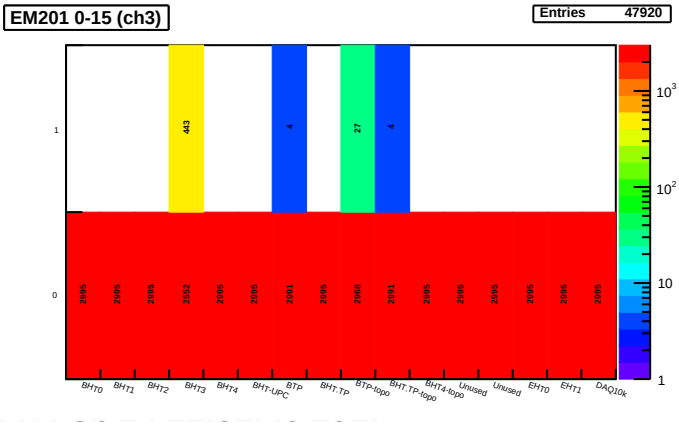

TF201 0-15 (ch0)
Entries 11429
MTD0 MTD1 MTD2-T-Cosmic TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 MTD1-T-Cosmic TOFsector0_3 TOFsector1_4 TOFsector2_5 MTD2-Hit MTD-Cosmic MTD1-Hit TOFmult4

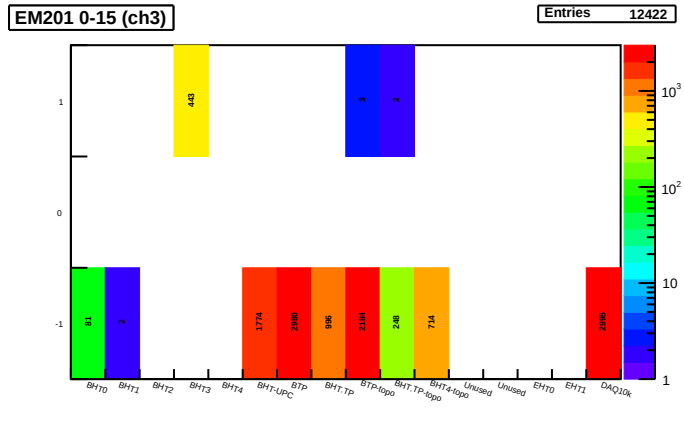

VT201 0-15 (ch1)
Entries 47920
BBC-TAC BBC-E BBC-W VPD-TAC2 BBC-Sum BBC-L ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW MinB VPD-TAC3 VPD-TAC VPD-E VPD-W

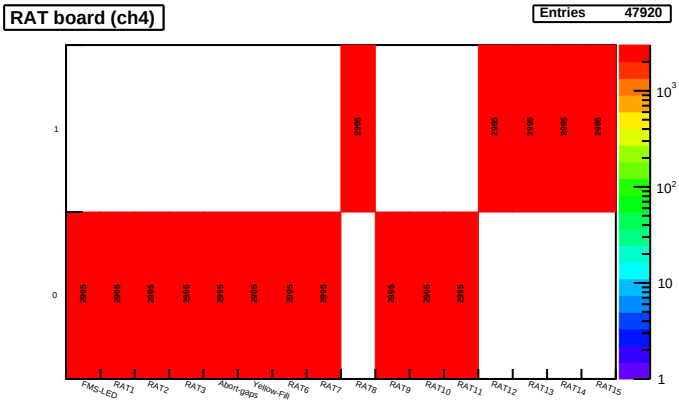

VT201 0-15 (ch1)
Entries 13025
BBC-TAC BBC-E BBC-W VPD-TAC2 BBC-Sum BBC-L ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW MinB VPD-TAC3 VPD-TAC VPD-E VPD-W

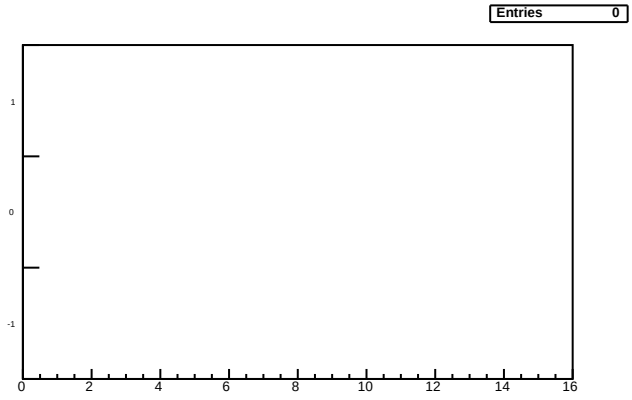

Unused (ch2)
Entries 47920

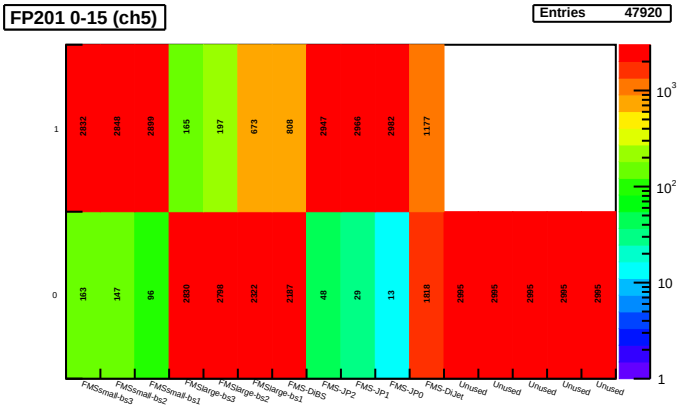

Entries 0

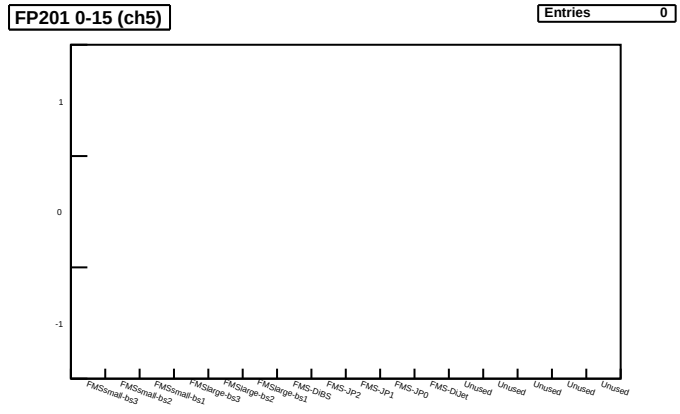

EM201 0-15 (ch3)
Entries 47920
BH0 BH1 BH2 BH3 BH4 BH-UPC BTP BH-TP BTP-topo BH-TP-topo BH4-topo Unused Unused EH0 EH1 DAQ10k

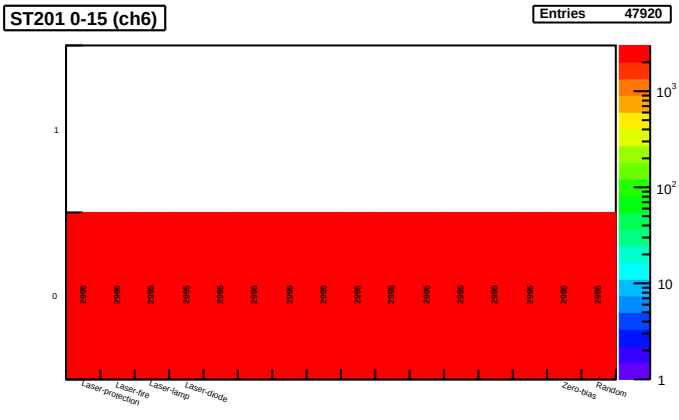

EM201 0-15 (ch3)
Entries 12422
BH0 BH1 BH2 BH3 BH4 BH-UPC BTP BH-TP BTP-topo BH-TP-topo BH4-topo Unused Unused EH0 EH1 DAQ10k

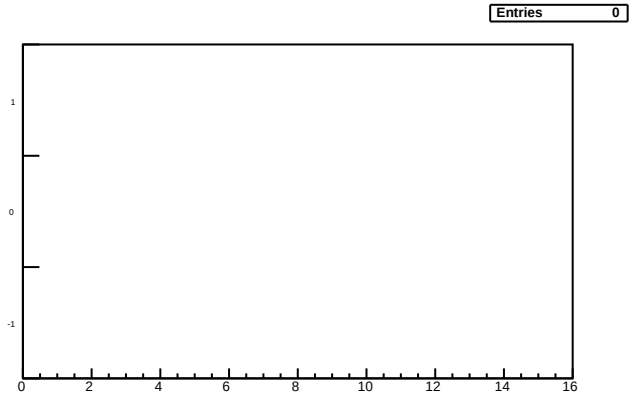

RAT board (ch4)
Entries 47920
FMS-LED
RAT1
RAT2
RAT3
Abort-gaps
Yellow-Fill
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15

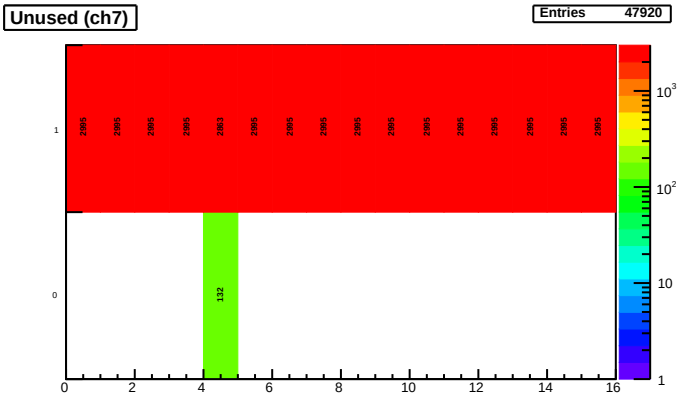

Entries 0

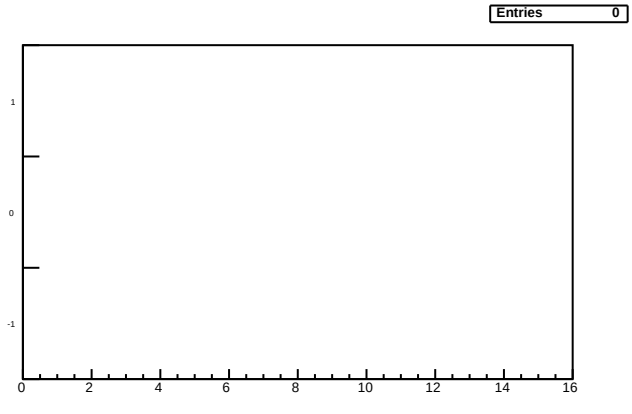

FP201 0-15 (ch5)
Entries 47920
FMSsmall-bs3
FMSsmall-bs2
FMSsmall-bs1
FMSlarge-bs3
FMSlarge-bs2
FMSlarge-bs1
FMS-DiBS
FMS-JP2
FMS-JP1
FMS-JP0
FMS-Dijet
Unused
Unused
Unused
Unused
Unused


FP201 0-15 (ch5)
Entries 0
FMSsmall-bs3
FMSsmall-bs2
FMSsmall-bs1
FMSlarge-bs3
FMSlarge-bs2
FMSlarge-bs1
FMS-DiBS
FMS-JP2
FMS-JP1
FMS-JP0
FMS-Dijet
Unused
Unused
Unused
Unused
Unused


ST201 0-15 (ch6)
Entries 47920
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random


Entries 0


Unused (ch7)
Entries 47920


Entries 0