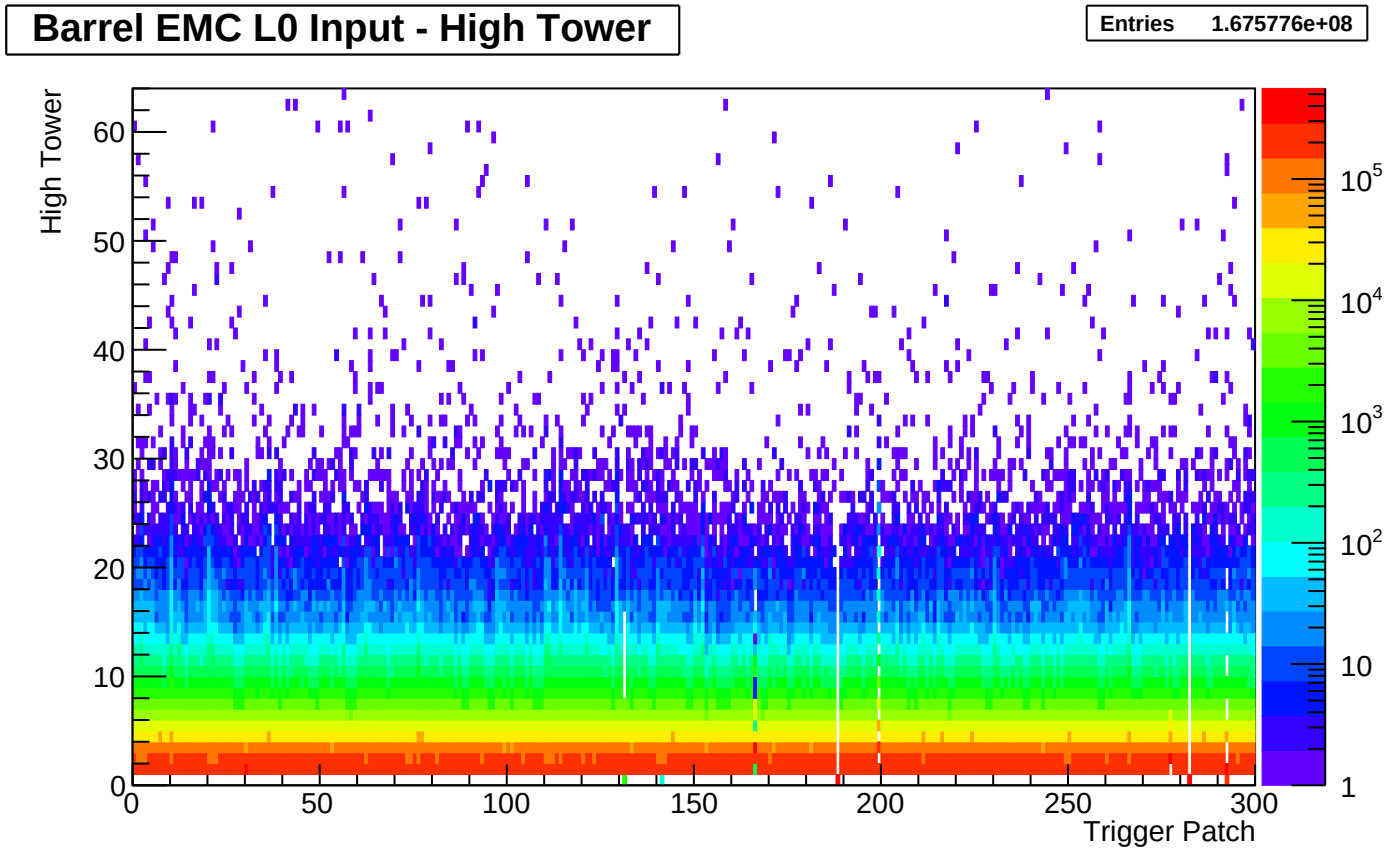
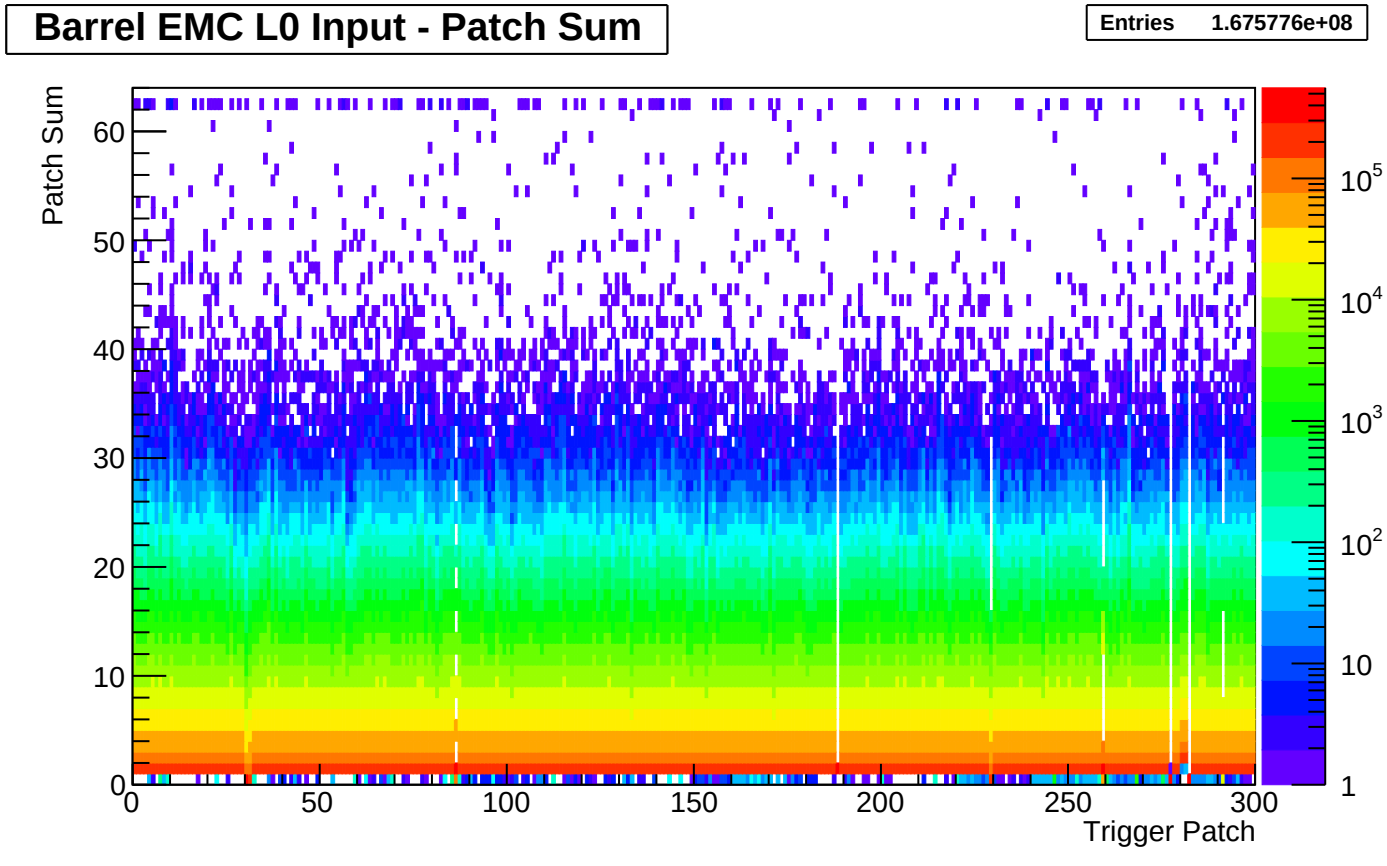
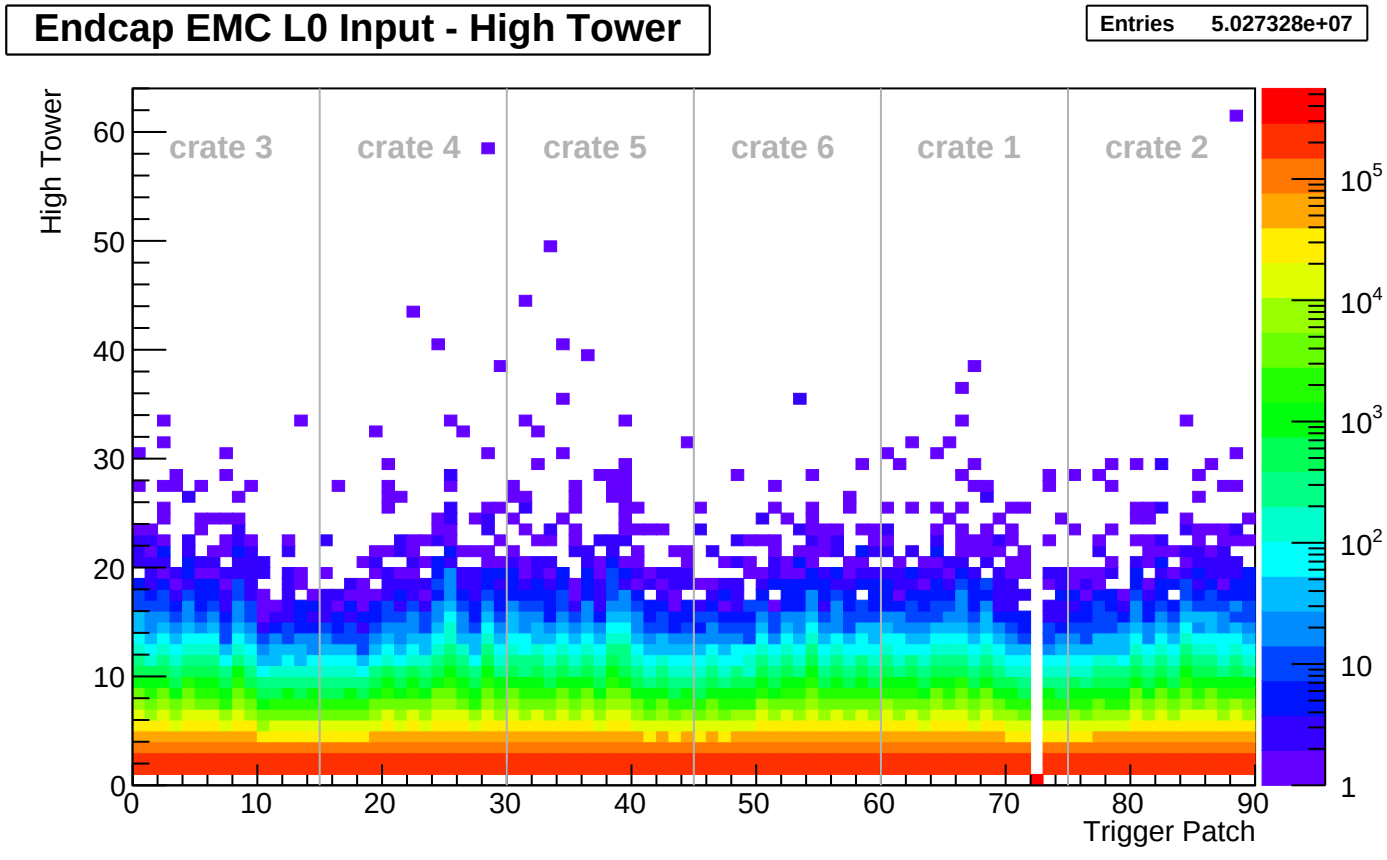
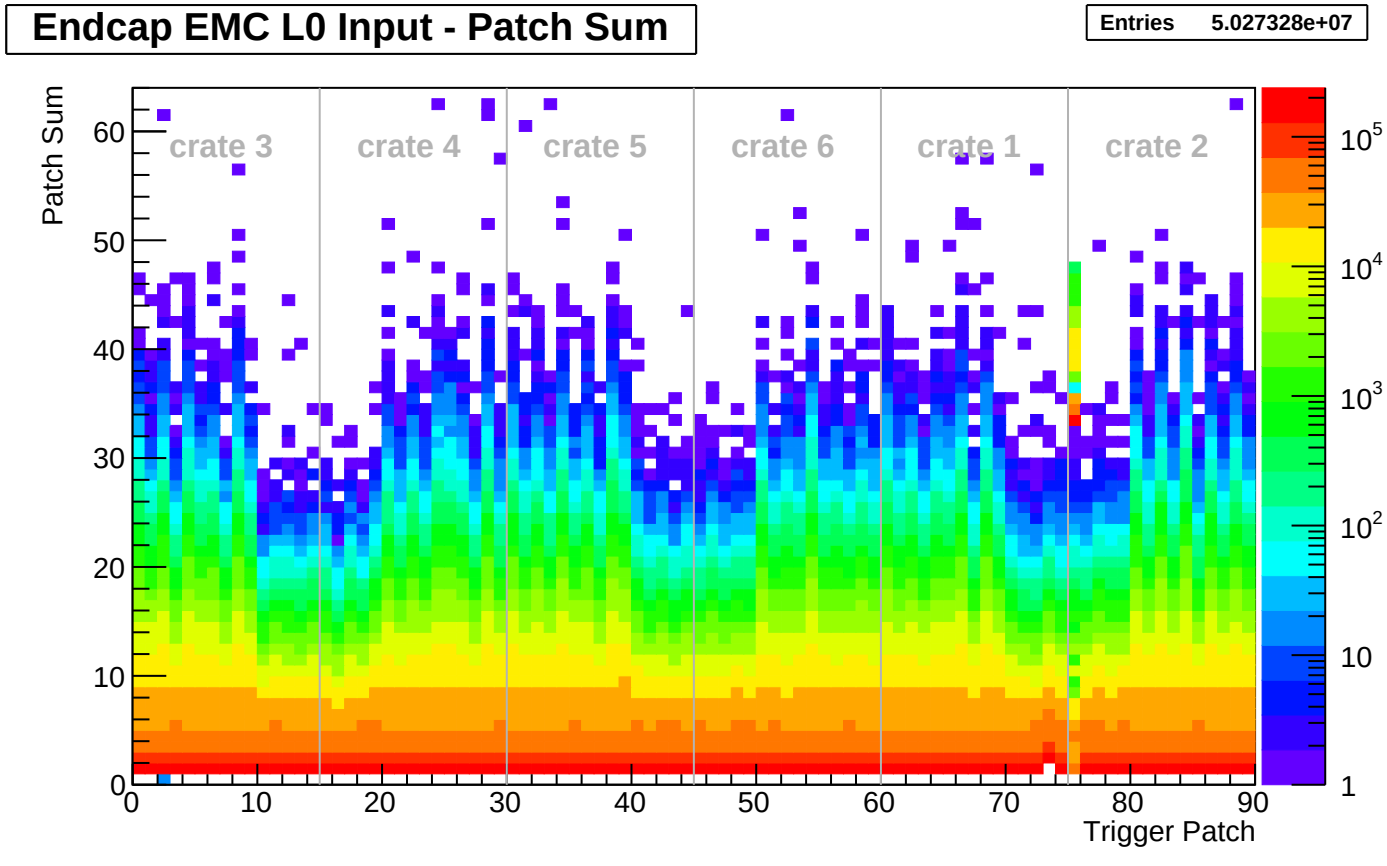
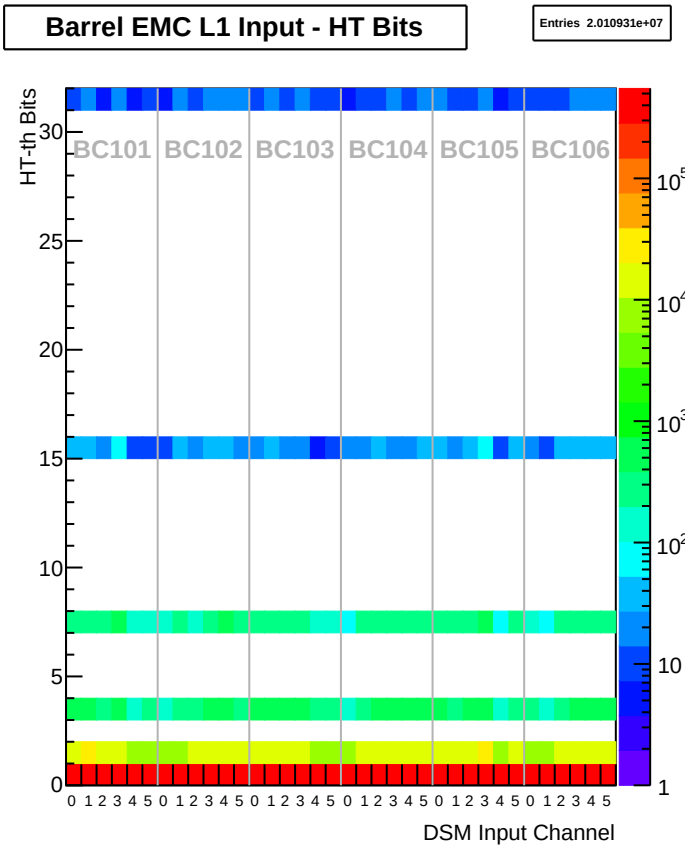
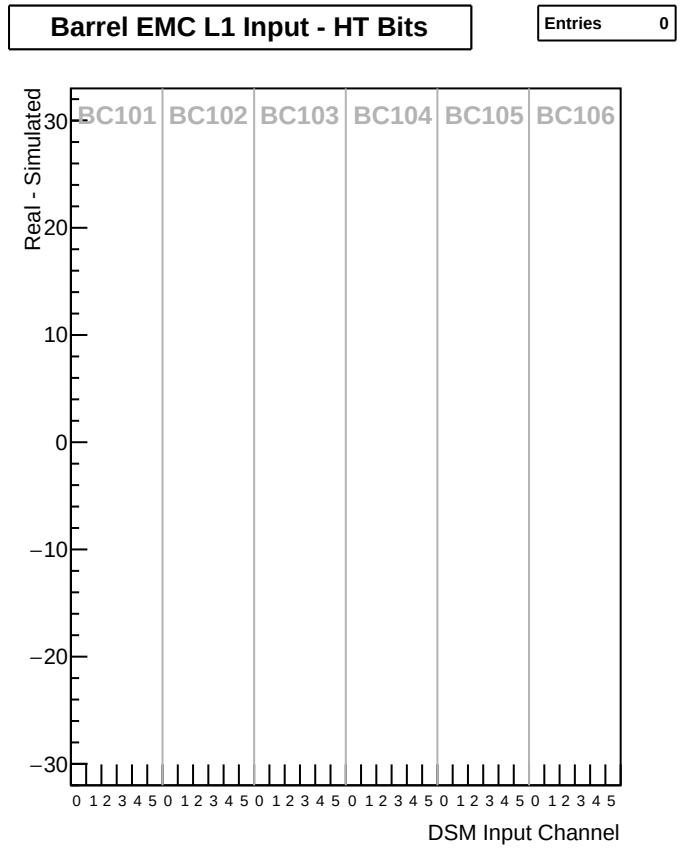

Barrel EMC L0 Input - High Tower
Entries 1.675776e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

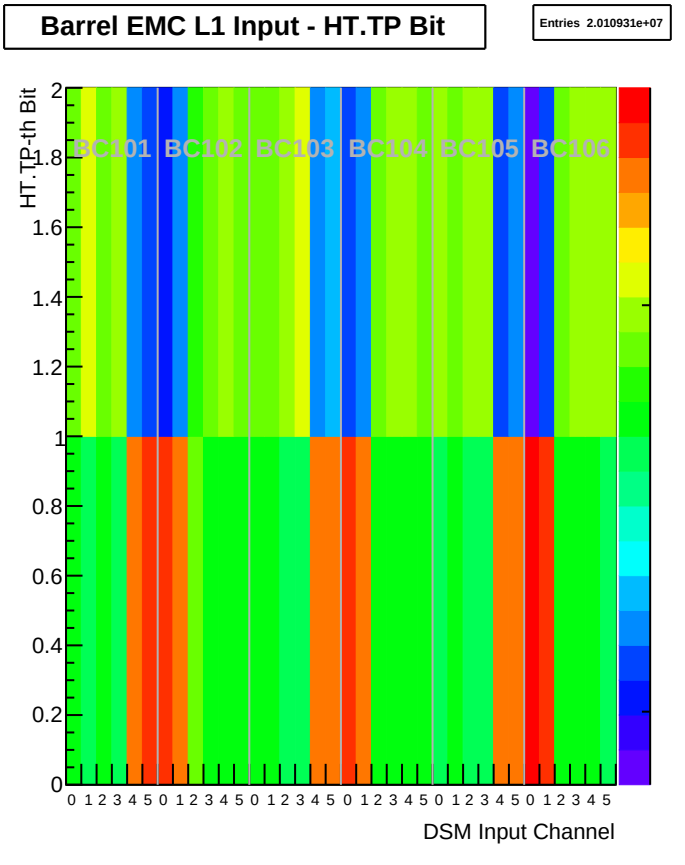

Barrel EMC L0 Input - Patch Sum
Entries 1.675776e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

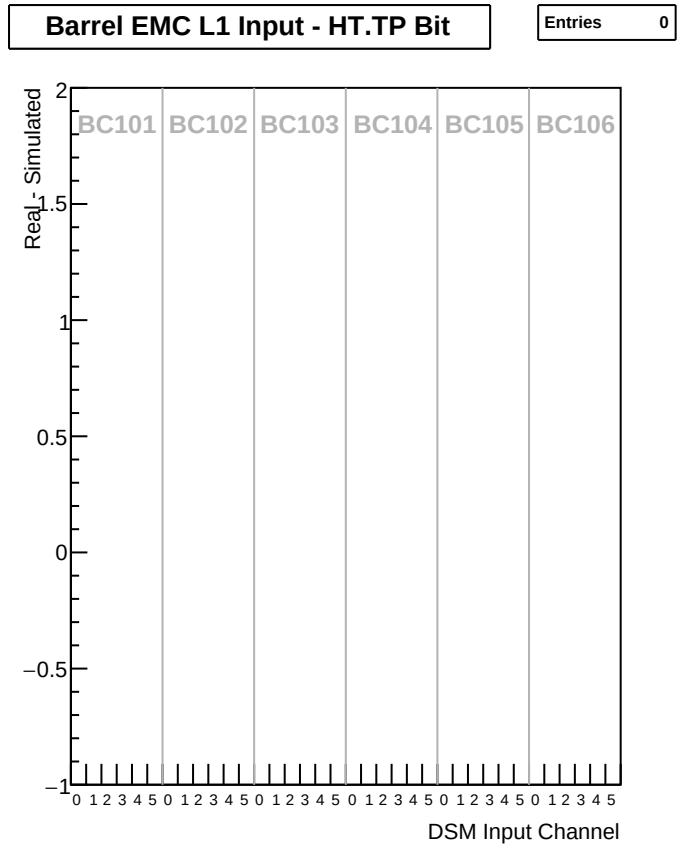

Endcap EMC L0 Input - High Tower
Entries 5.027328e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

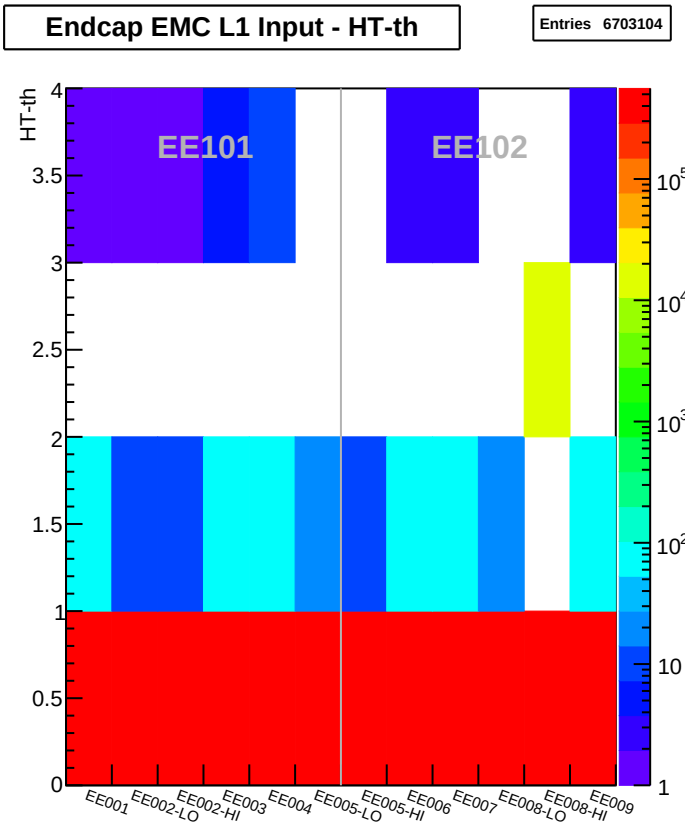

Endcap EMC L0 Input - Patch Sum
Entries 5.027328e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

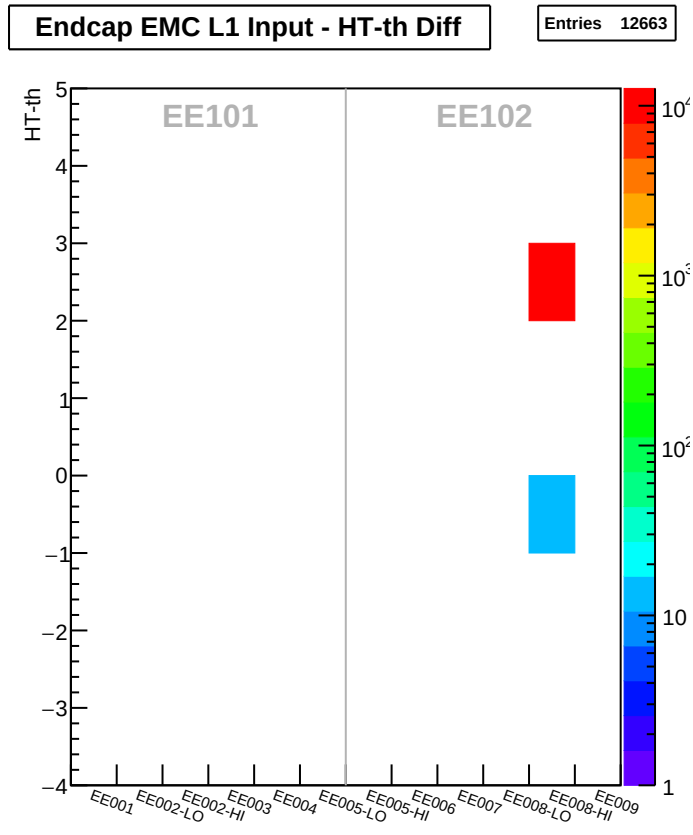

Barrel EMC L1 Input - HT Bits
Entries 2.010931e+07
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

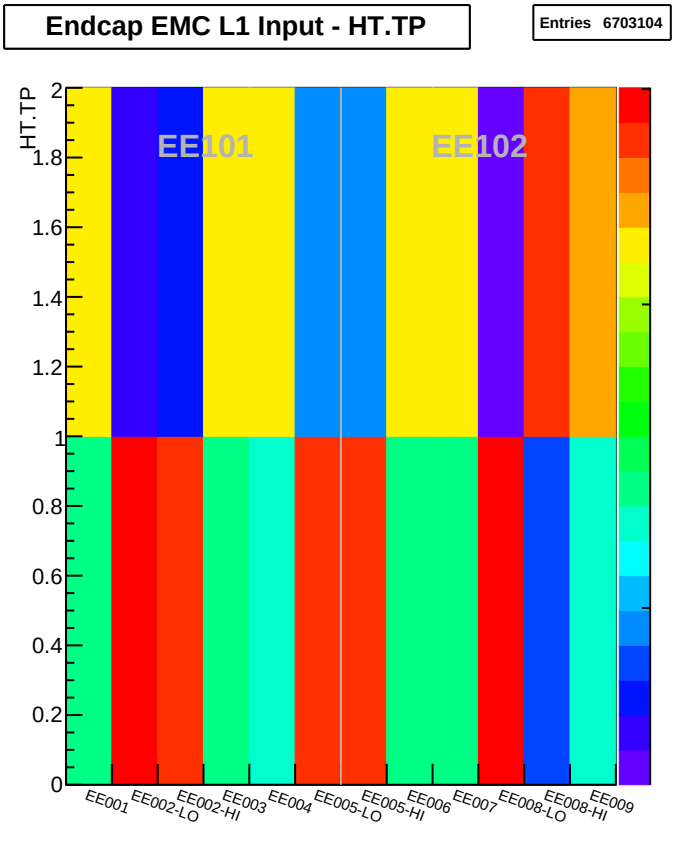

Barrel EMC L1 Input - HT Bits
Entries 0
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

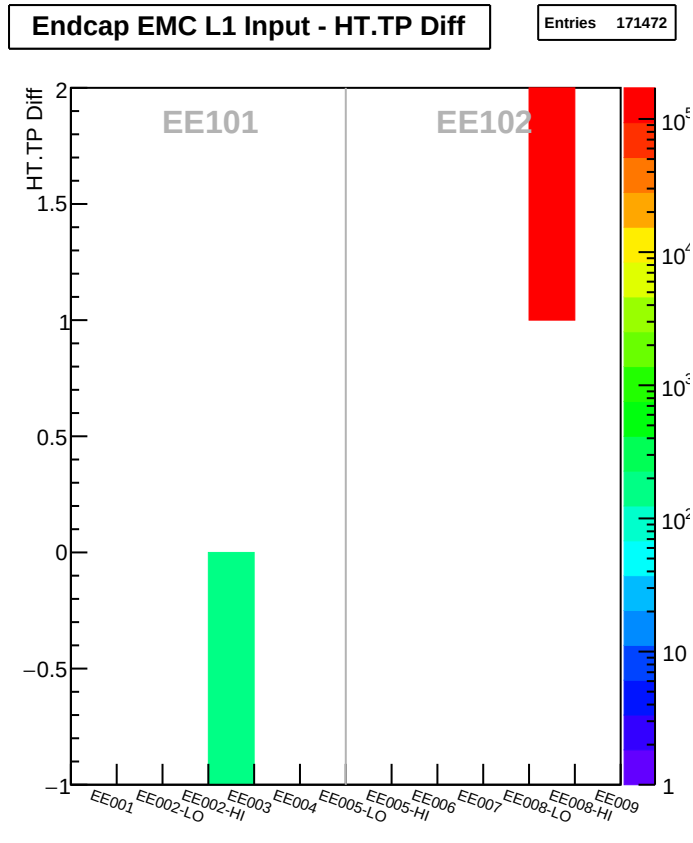

Barrel EMC L1 Input - HT.TP Bit
Entries 2.010931e+07
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

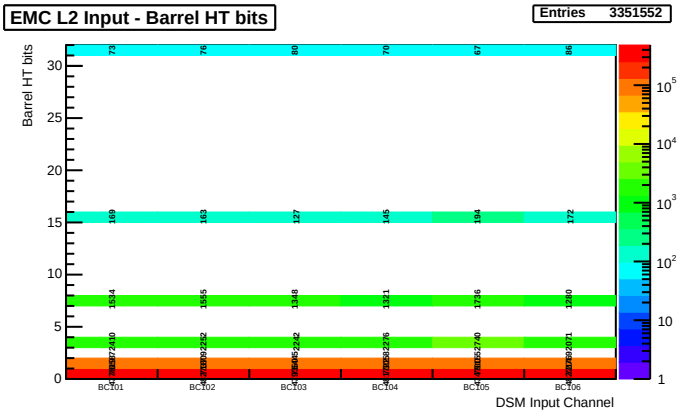

Barrel EMC L1 Input - HT.TP Bit
Entries 0
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

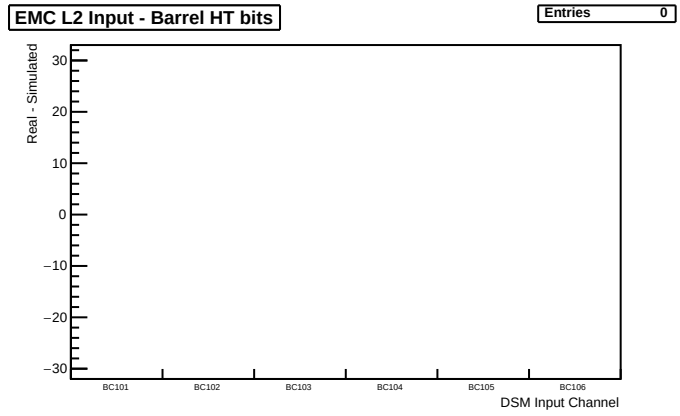

Endcap EMC L1 Input - HT-th
Entries 6703104
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

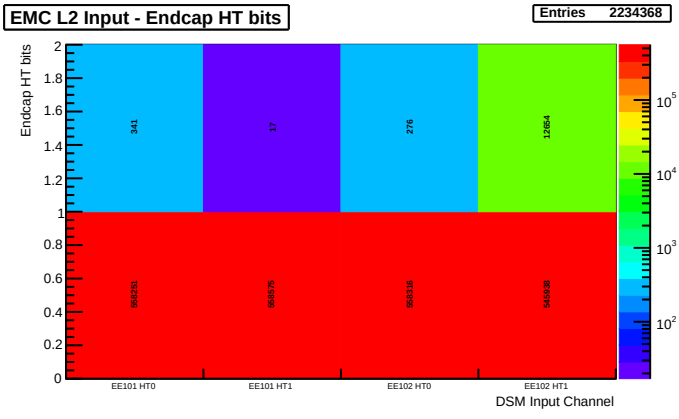

Endcap EMC L1 Input - HT-th Diff
Entries 12663
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

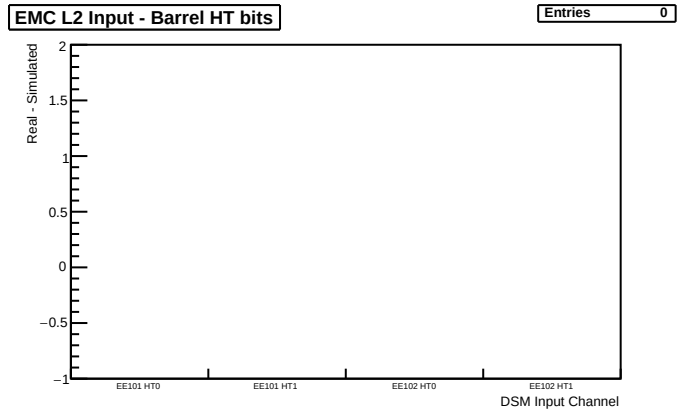

Endcap EMC L1 Input - HT.TP
Entries 6703104
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

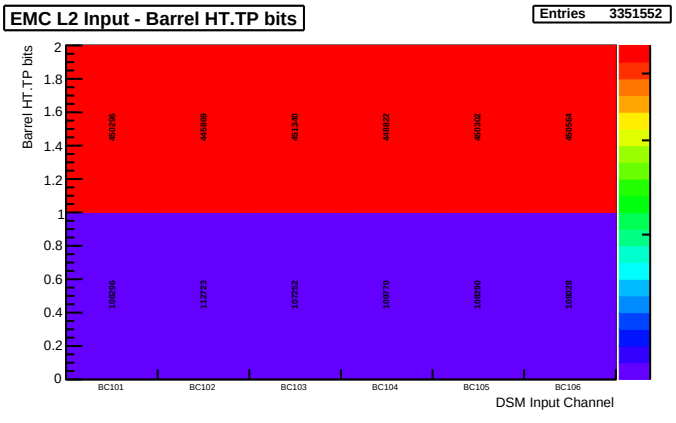

Endcap EMC L1 Input - HT.TP Diff
Entries 171472
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

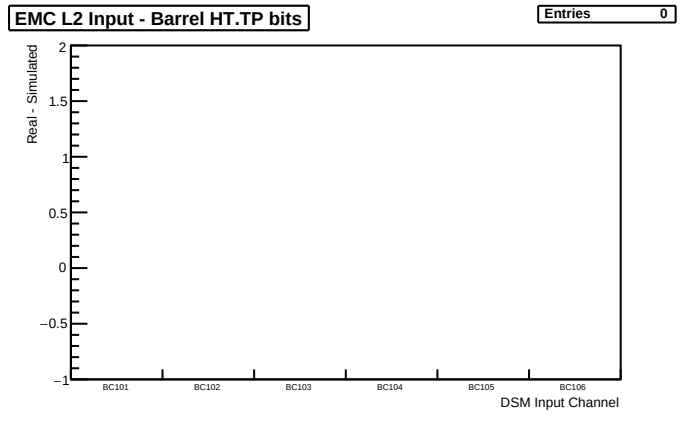

EMC L2 Input - Barrel HT bits
Entries 3351552
Barrel HT bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

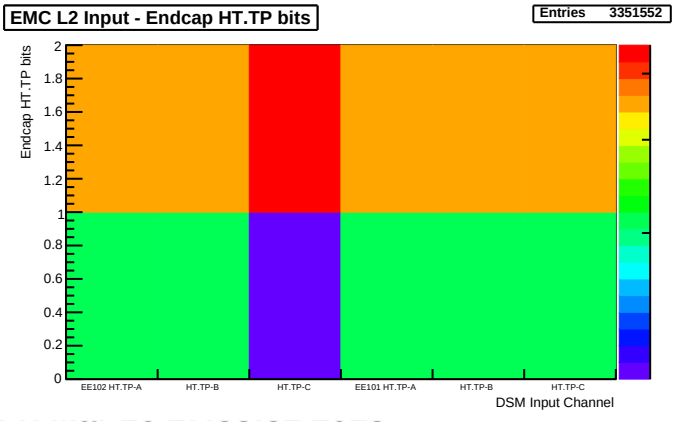

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

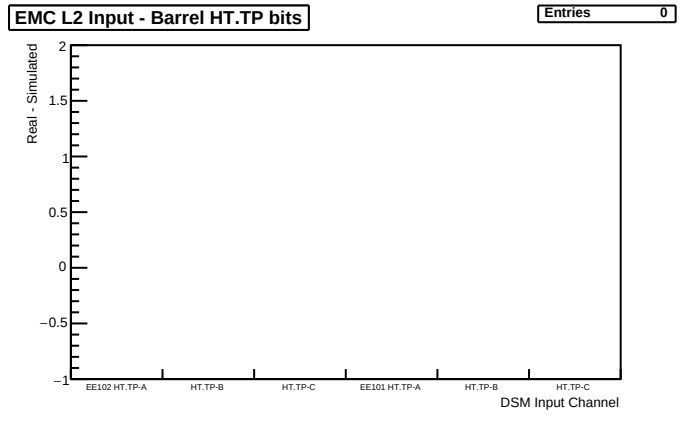

EMC L2 Input - Endcap HT bits
Entries 2234368
Endcap HT bits
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

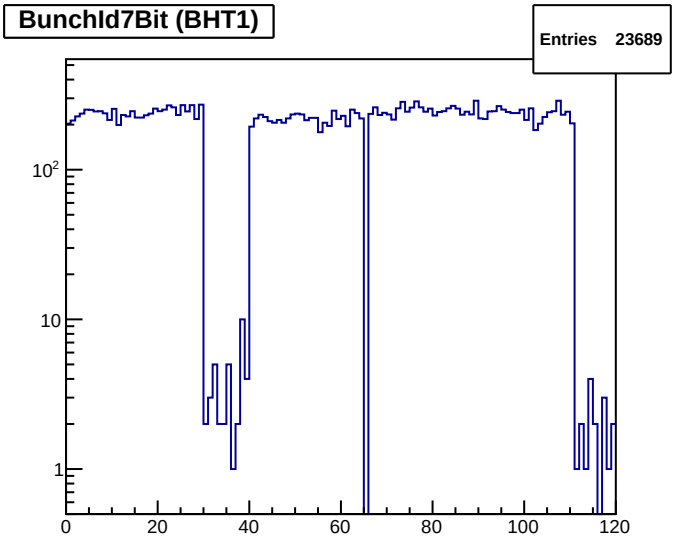

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

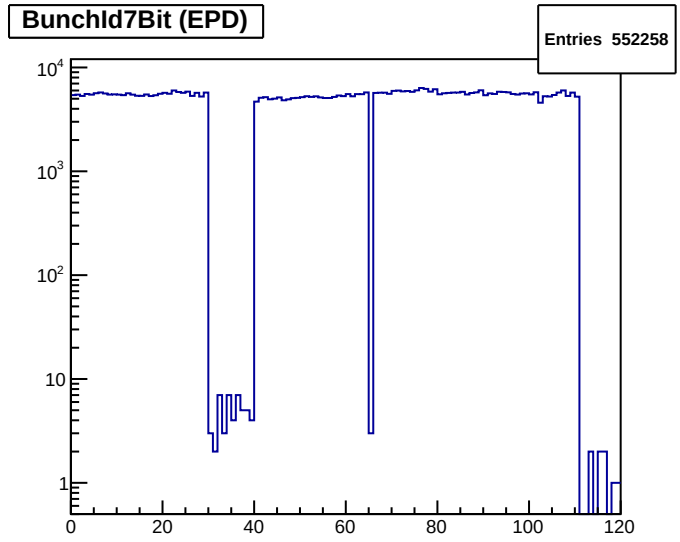

EMC L2 Input - Barrel HT.TP bits
Entries 3351552
Barrel HT.TP bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

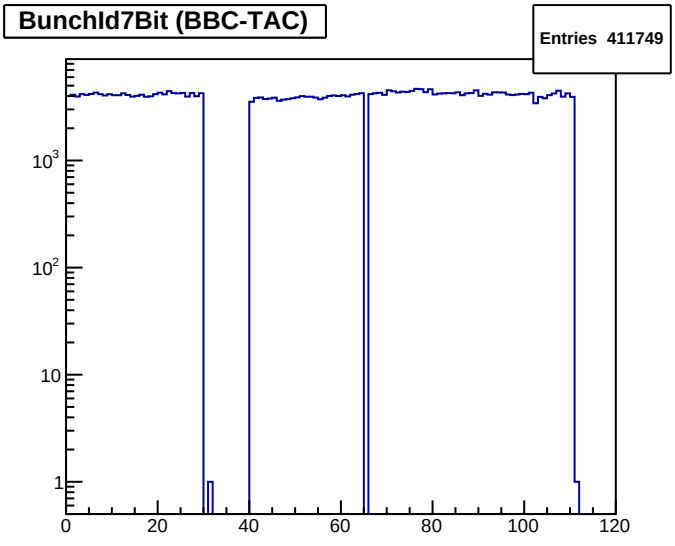

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

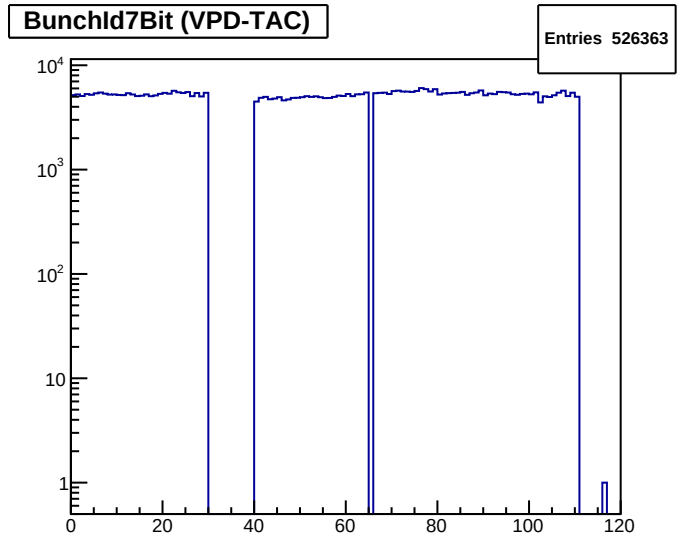

EMC L2 Input - Endcap HT.TP bits
Entries 3351552
Endcap HT.TP bits
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

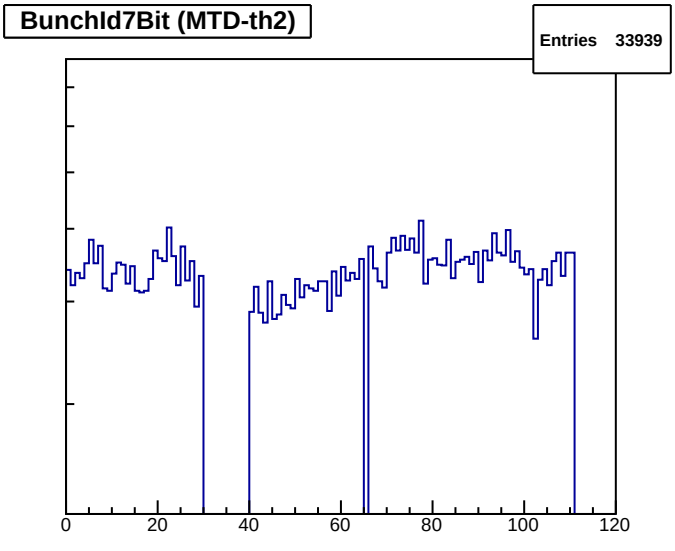

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

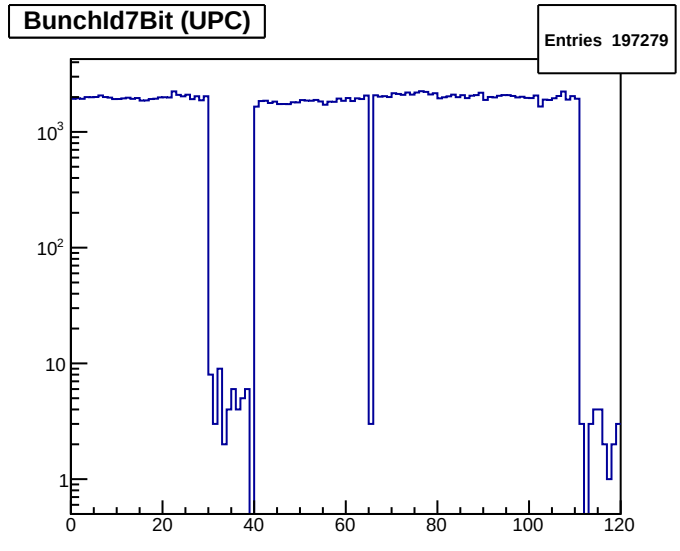

BunchId7Bit (BHT1)
Entries 23689

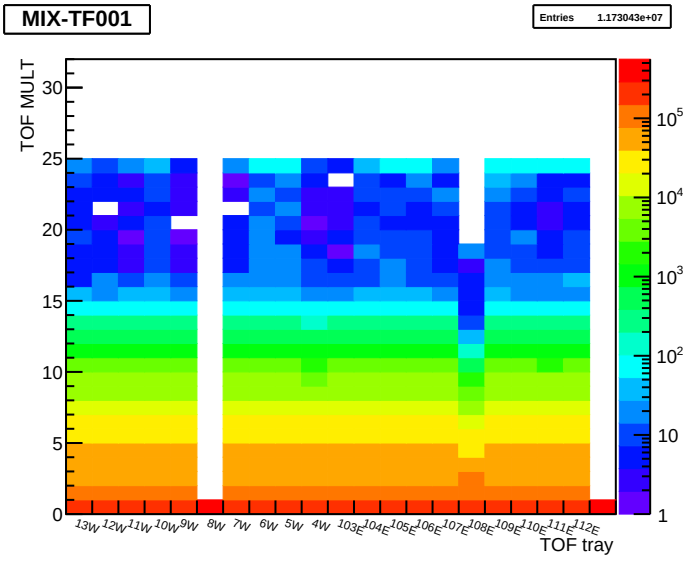

BunchId7Bit (EPD)
Entries 552258

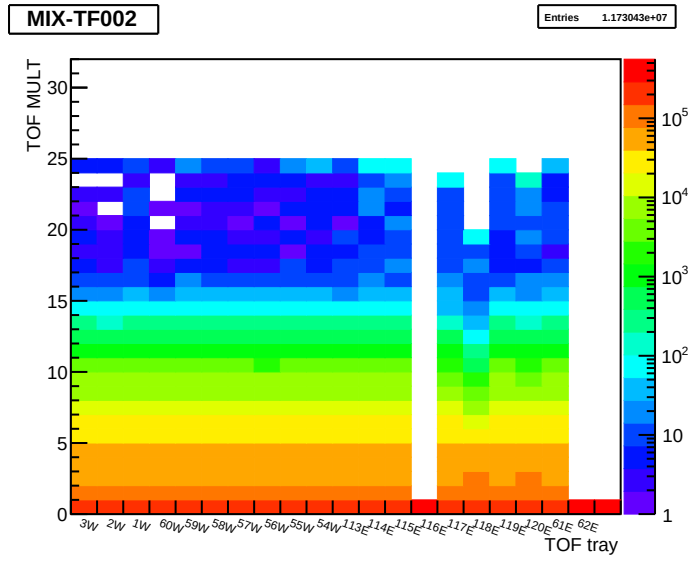

BunchId7Bit (BBC-TAC)
Entries 411749

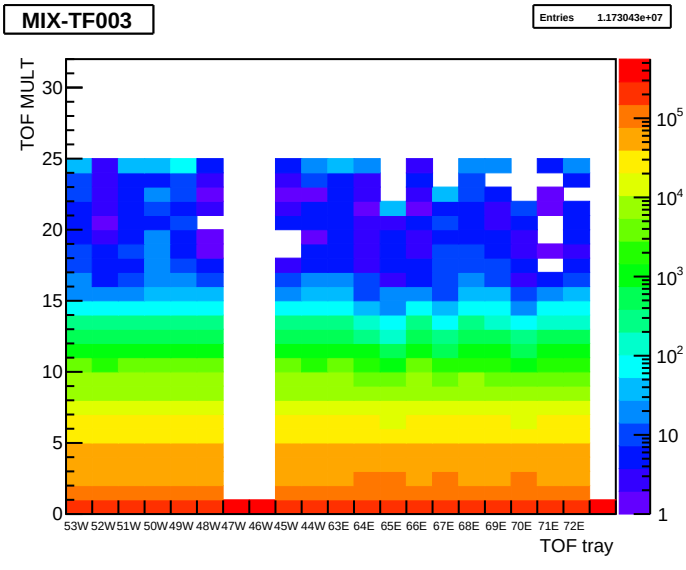

BunchId7Bit (VPD-TAC)
Entries 526363

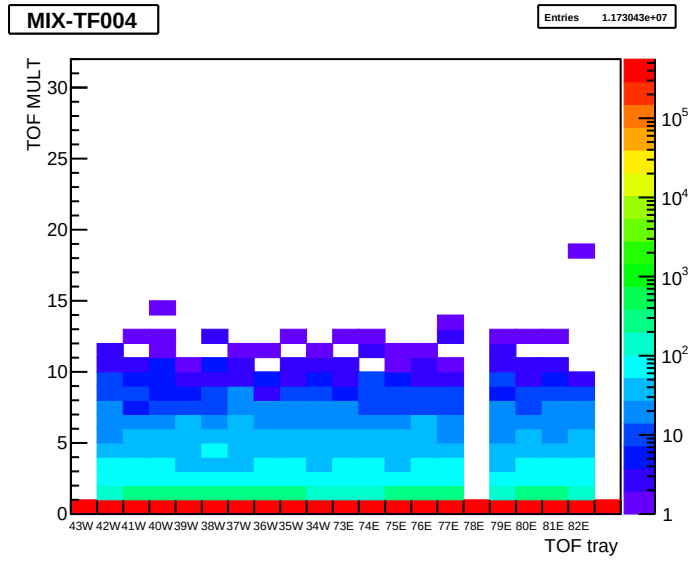

BunchId7Bit (MTD-th2)
Entries 33939

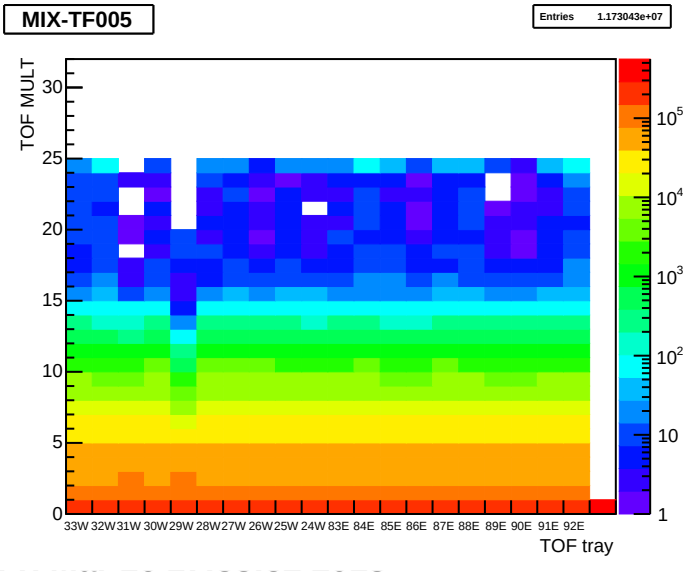

BunchId7Bit (UPC)
Entries 197279

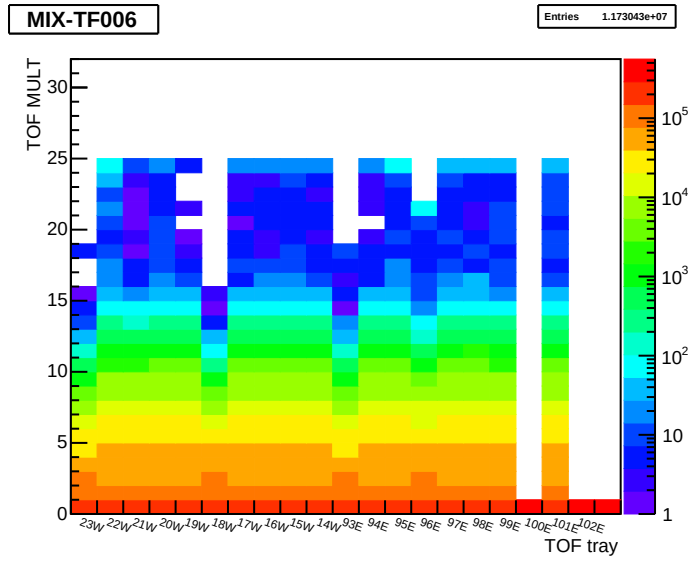

MIX-TF001
Entries 1.173043e+07
TOF MULT
TOF tray

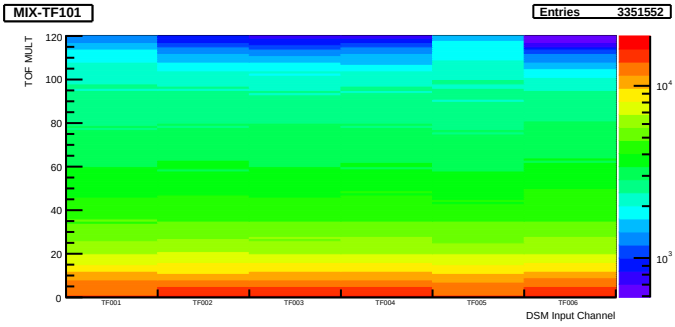

MIX-TF002
Entries 1.173043e+07
TOF MULT
TOF tray

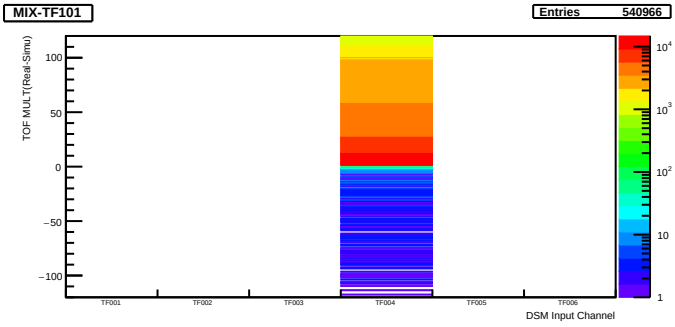

MIX-TF003
Entries 1.173043e+07
TOF MULT
TOF tray

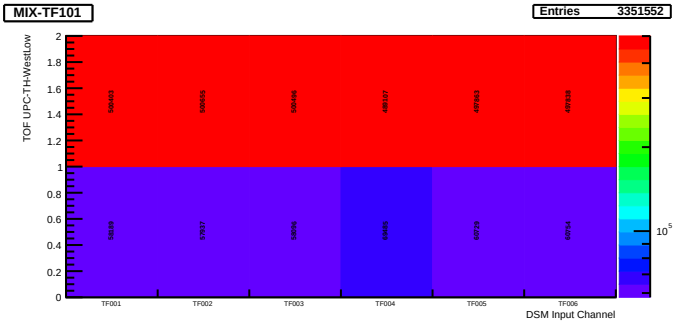

MIX-TF004
Entries 1.173043e+07
TOF MULT
TOF tray

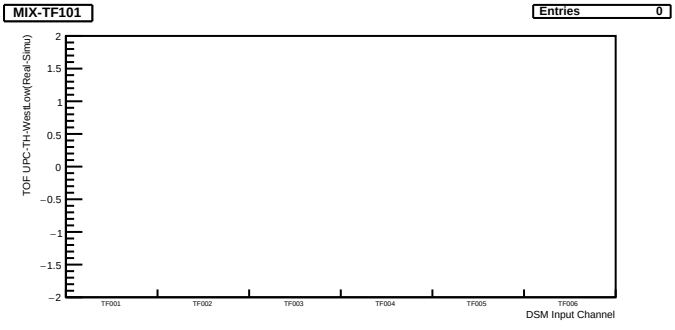

MIX-TF005
Entries 1.173043e+07
TOF MULT
TOF tray

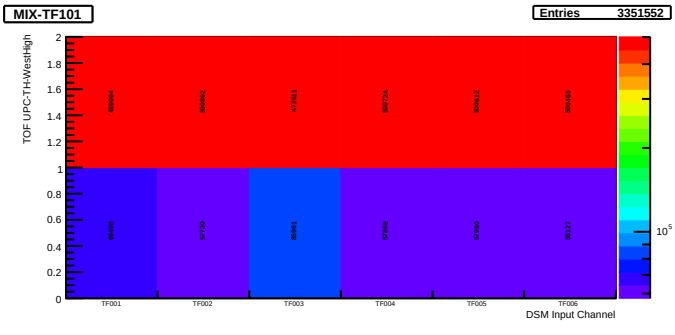

MIX-TF006
Entries 1.173043e+07
TOF MULT
TOF tray

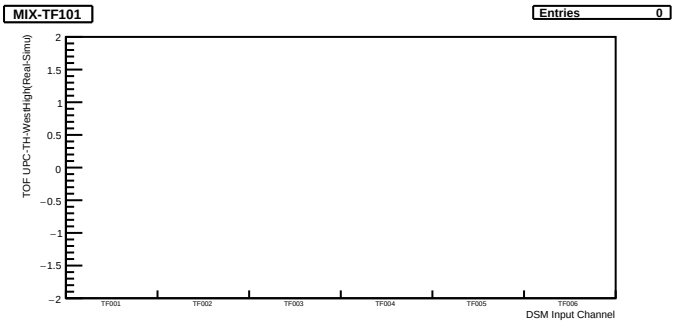

MIX-TF101
Entries 3351552
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

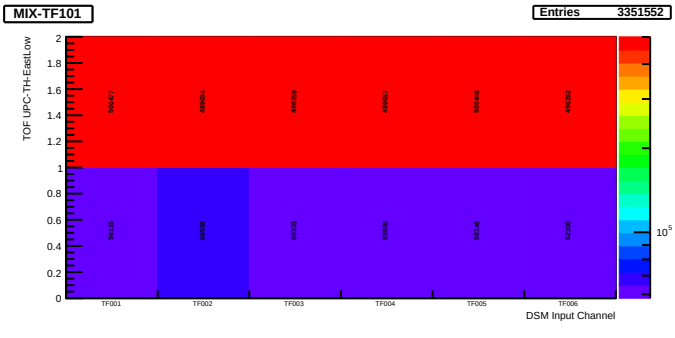

MIX-TF101
Entries 540966
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

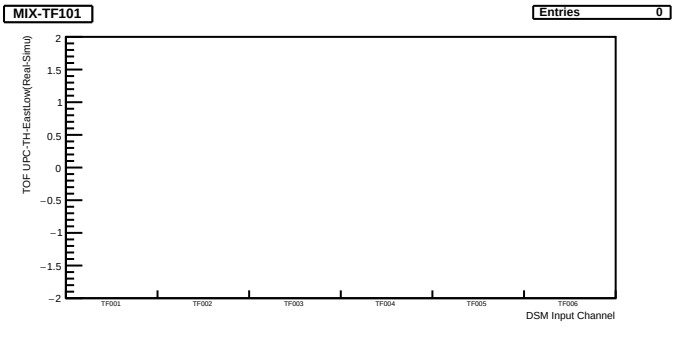

MIX-TF101
Entries 3351552
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

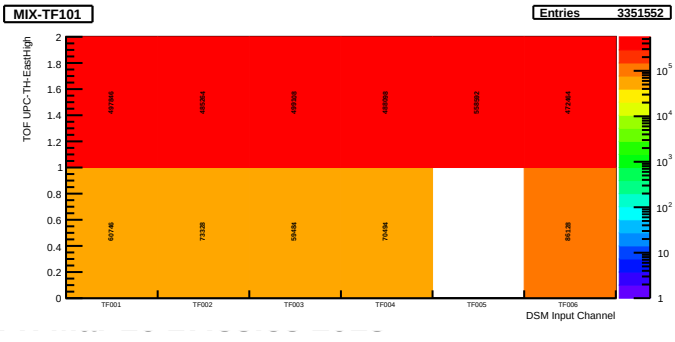

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

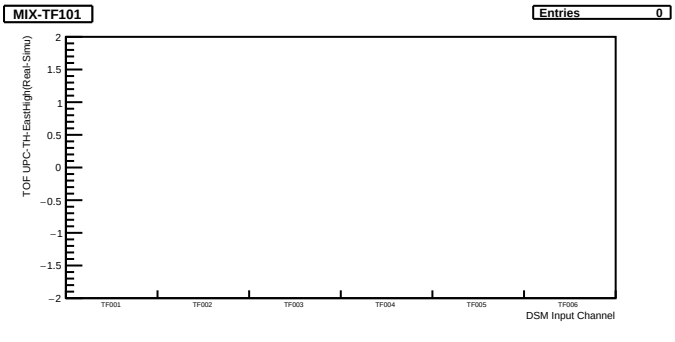

MIX-TF101
Entries 3351552
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

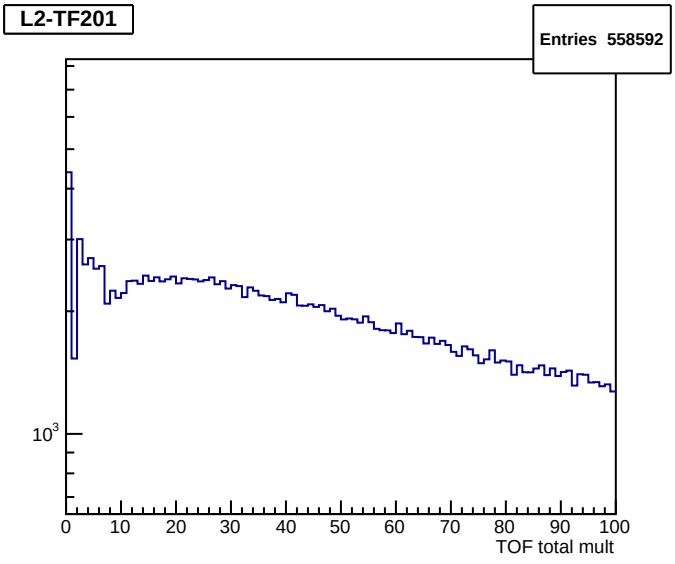

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

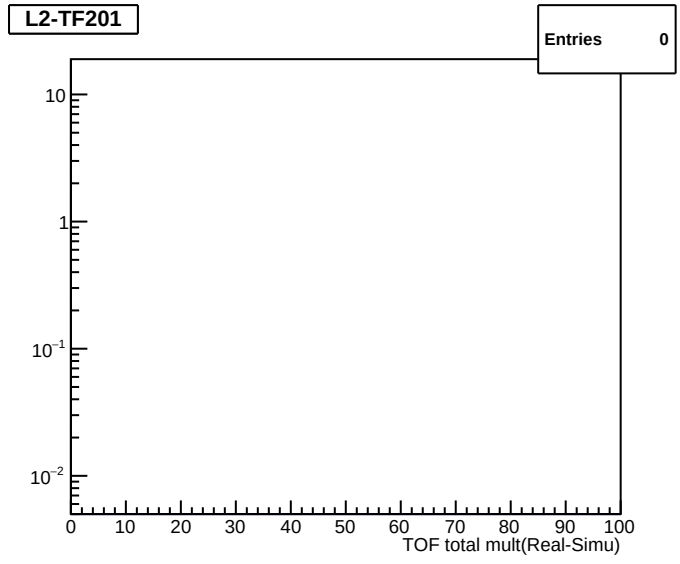

MIX-TF101
Entries 3351552
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

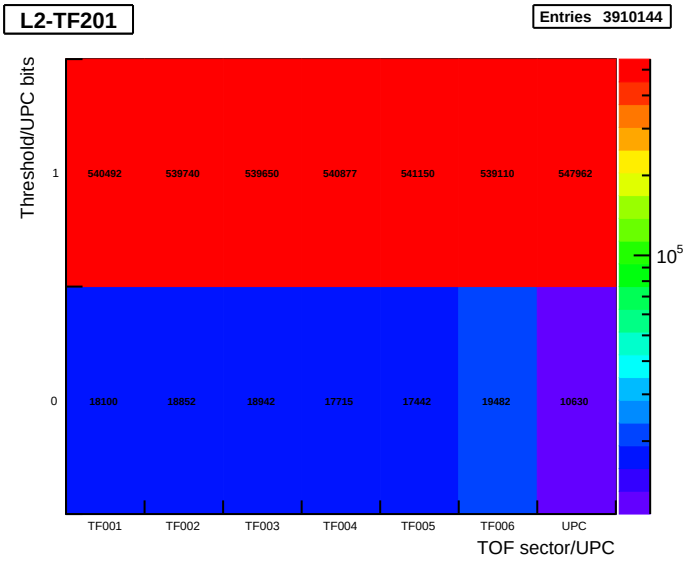

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

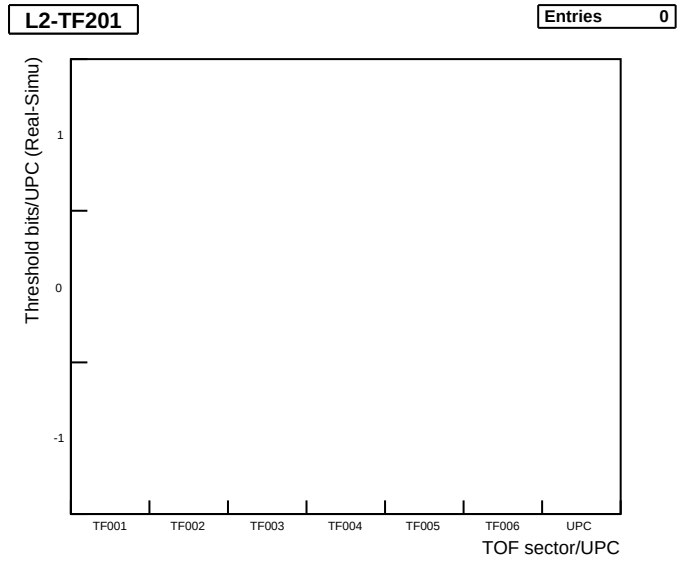

MIX-TF101
Entries 3351552
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

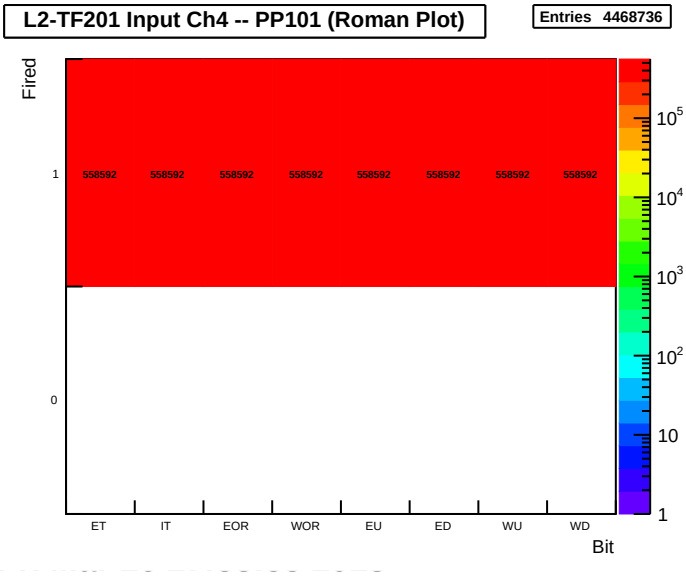

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

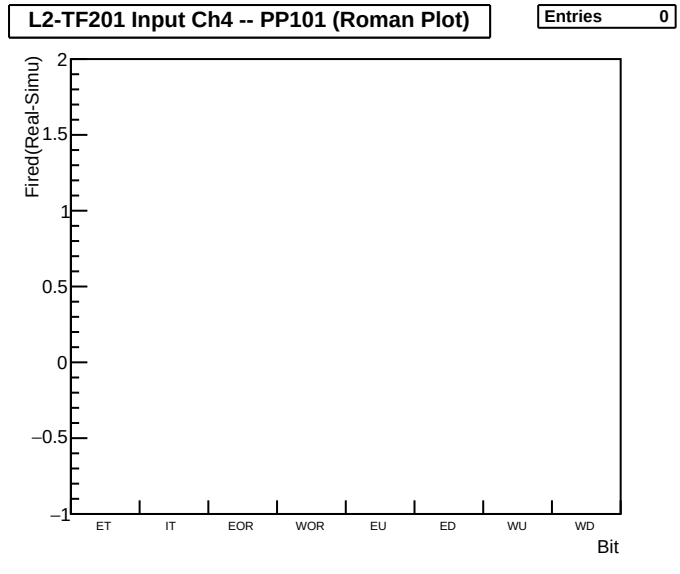

L2-TF201
Entries 558592
10^3
0 10 20 30 40 50 60 70 80 90 100
TOF total mult

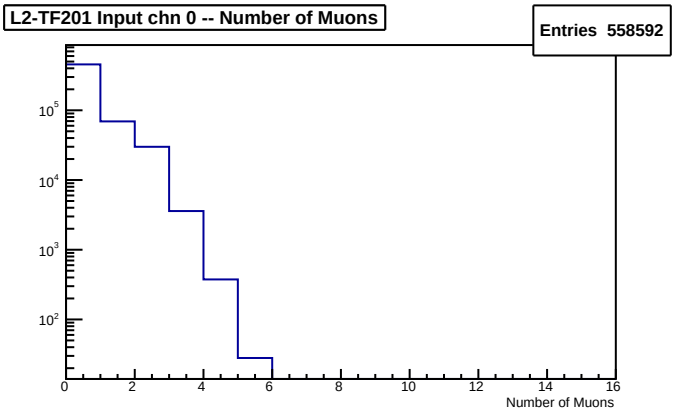

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
0 10 20 30 40 50 60 70 80 90 100
TOF total mult(Real-Simu)

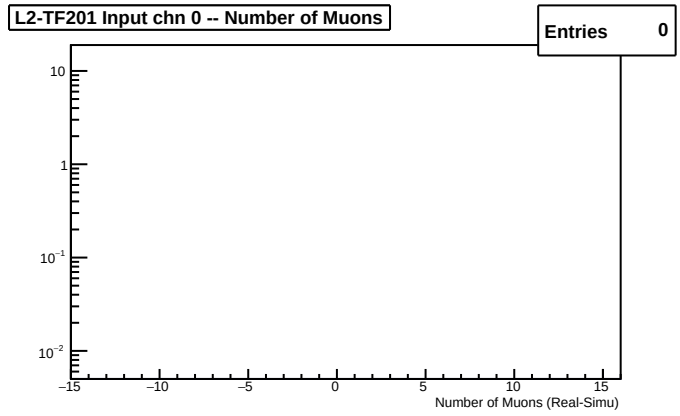

L2-TF201
Entries 3910144
Threshold/UPC bits
1
0
540492 539740 539650 540877 541150 539110 547962
18100 18852 18942 17715 17442 19482 10630
10^5
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

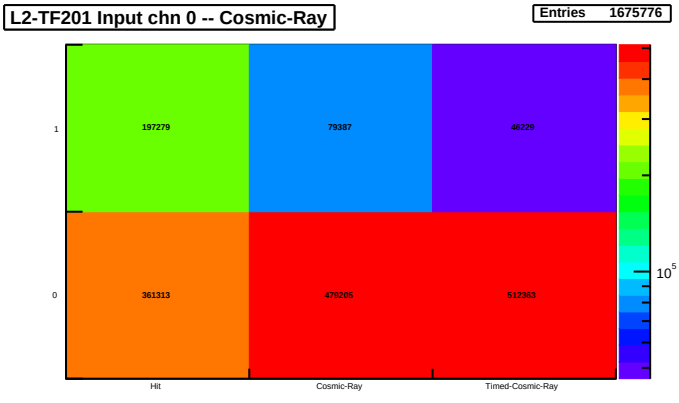

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

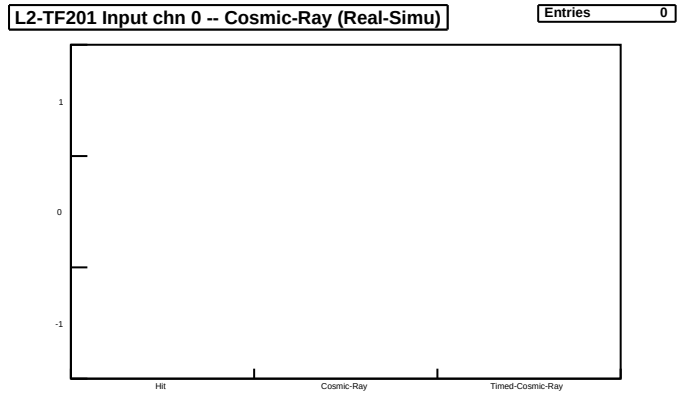

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 4468736
Fired
1
0
558592 558592 558592 558592 558592 558592 558592 558592
10^5
10^4
10^3
10^2
10
1
ET IT EOR WOR EU ED WU WD
Bit

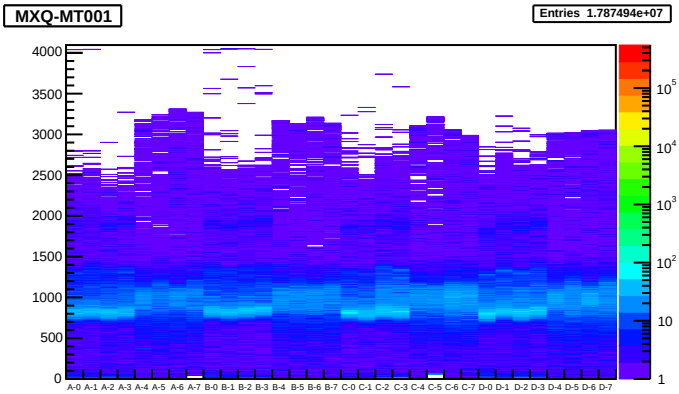

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 0
Fired(Real-Simu)
2
1.5
1
0.5
0
−0.5
−1
ET IT EOR WOR EU ED WU WD
Bit

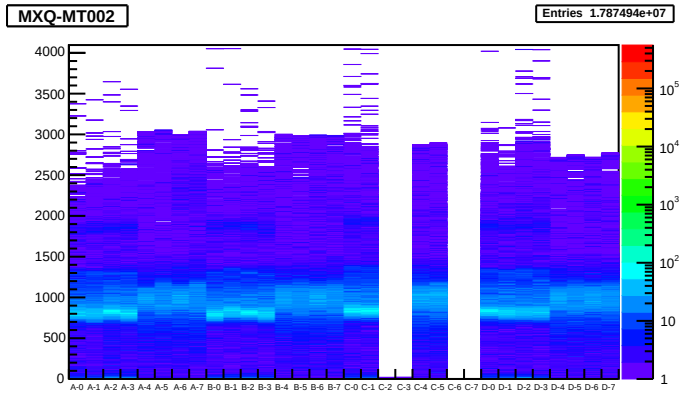

L2-TF201 Input chn 0 -- Number of Muons
Entries 558592
Number of Muons

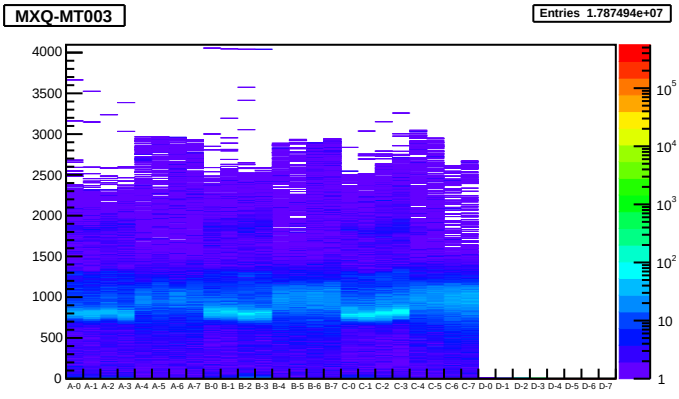

L2-TF201 Input chn 0 -- Number of Muons
Entries 0
Number of Muons (Real-Simu)

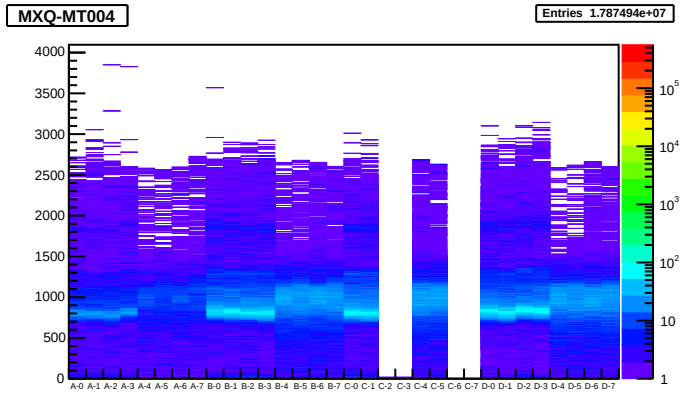

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 1675776
197279
79387
46229
361313
479205
512363
Hit
Cosmic-Ray
Timed-Cosmic-Ray

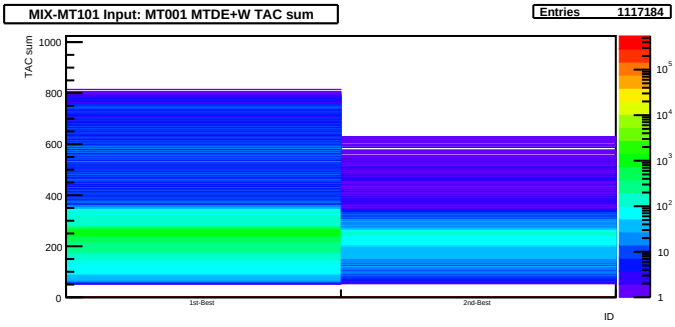

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 0
Hit
Cosmic-Ray
Timed-Cosmic-Ray

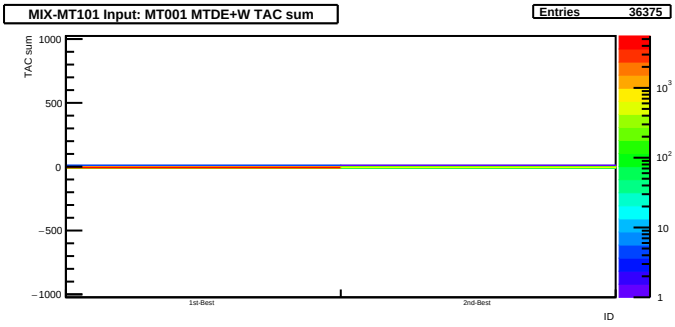

MXQ-MT001
Entries 1.787494e+07

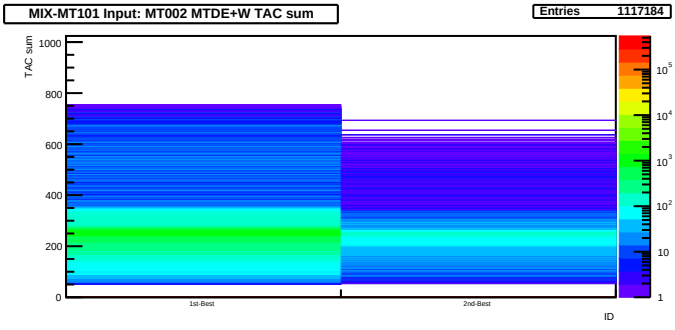

MXQ-MT002
Entries 1.787494e+07

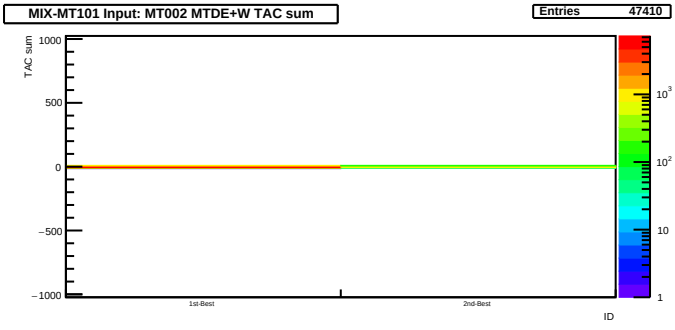

MXQ-MT003
Entries 1.787494e+07

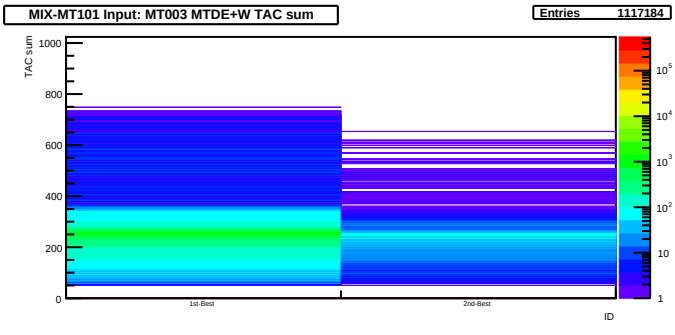

MXQ-MT004
Entries 1.787494e+07

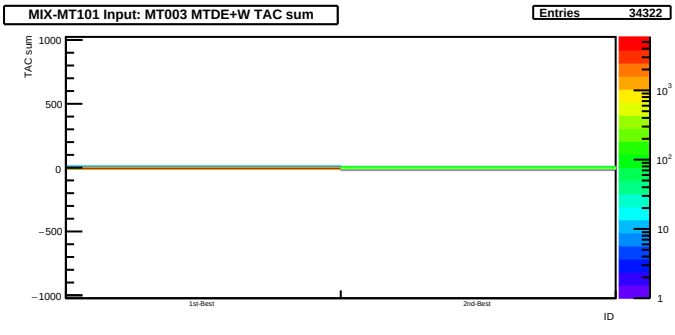

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 1117184
TAC sum
ID
1st-Best
2nd-Best

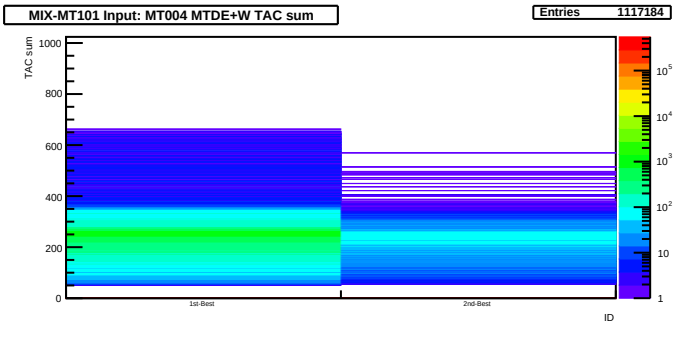

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 36375
TAC sum
ID
1st-Best
2nd-Best

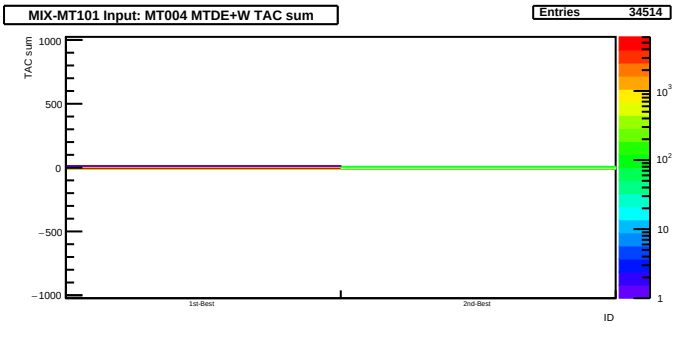

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 1117184
TAC sum
ID
1st-Best
2nd-Best

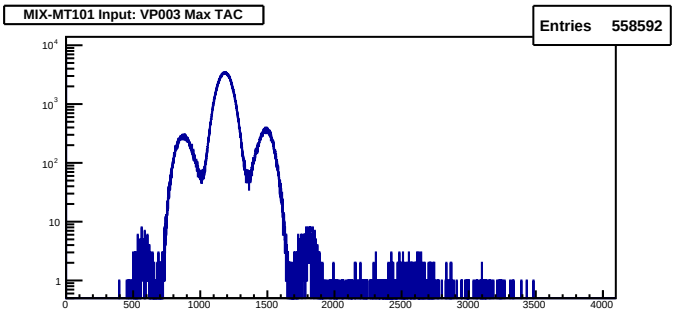

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 47410
TAC sum
ID
1st-Best
2nd-Best

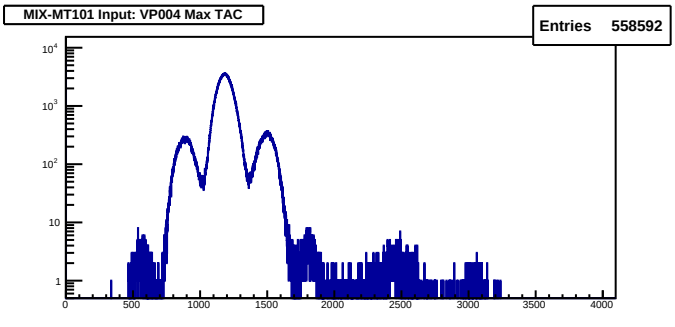

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 1117184
TAC sum
ID
1st-Best
2nd-Best

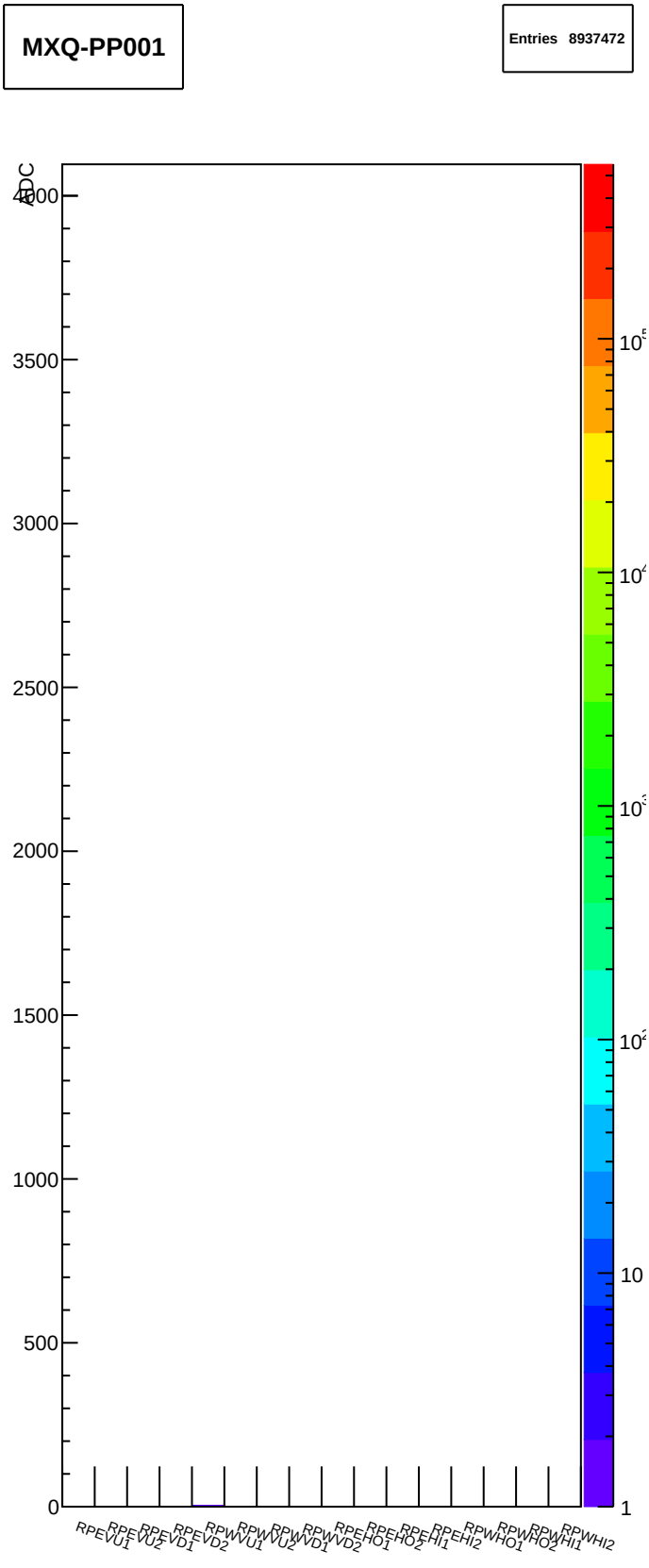

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 34322
TAC sum
ID
1st-Best
2nd-Best

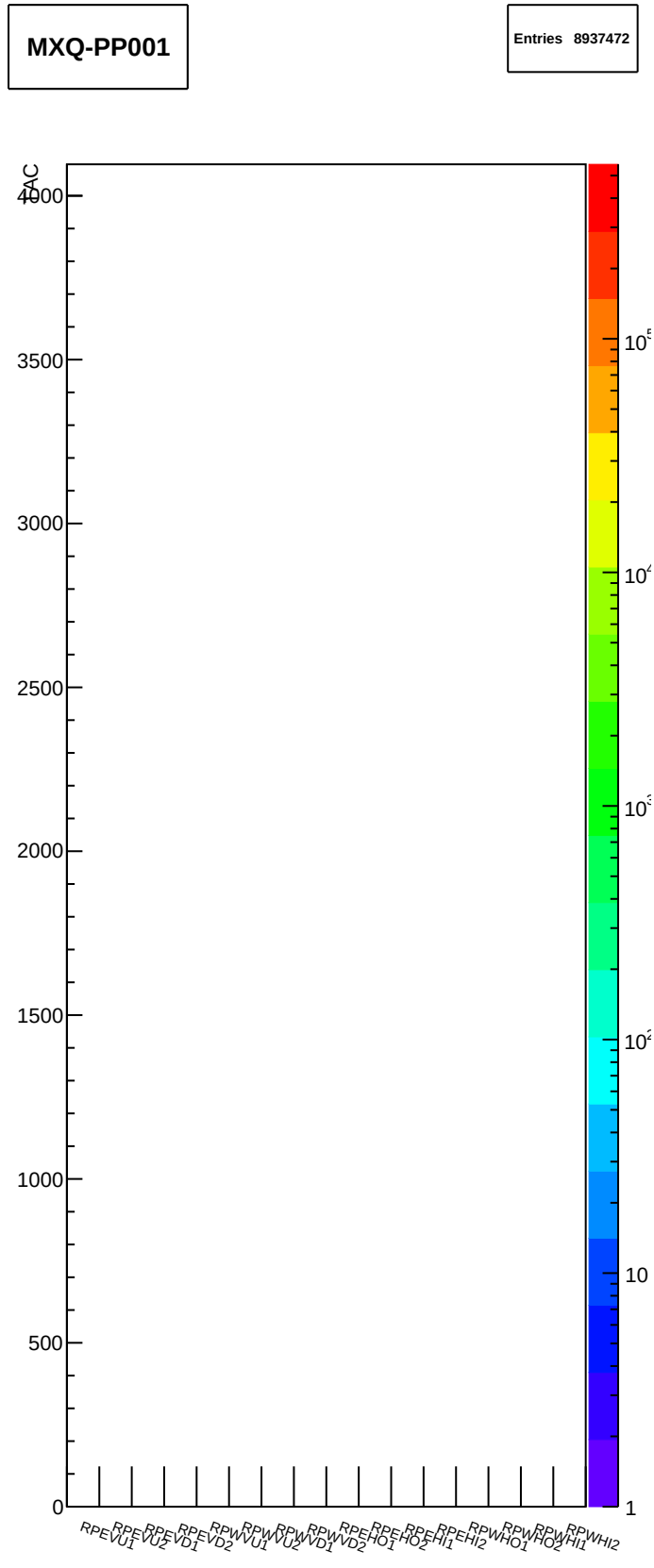

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 1117184
TAC sum
ID
1st-Best
2nd-Best

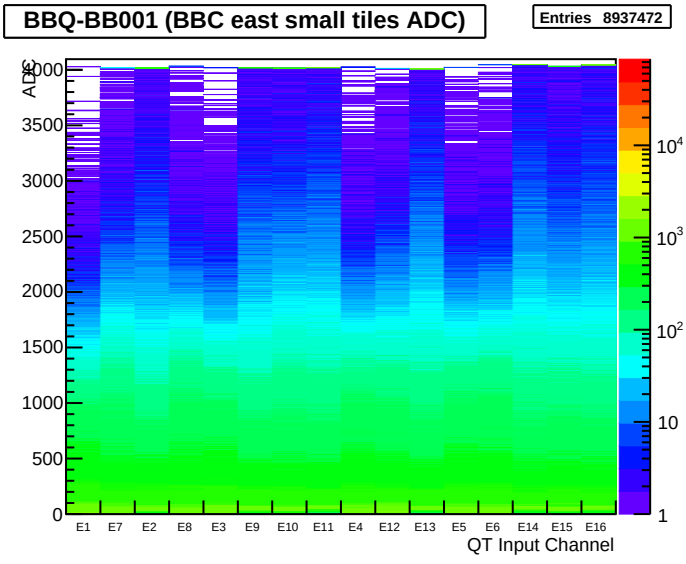

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 34514
TAC sum
ID
1st-Best
2nd-Best

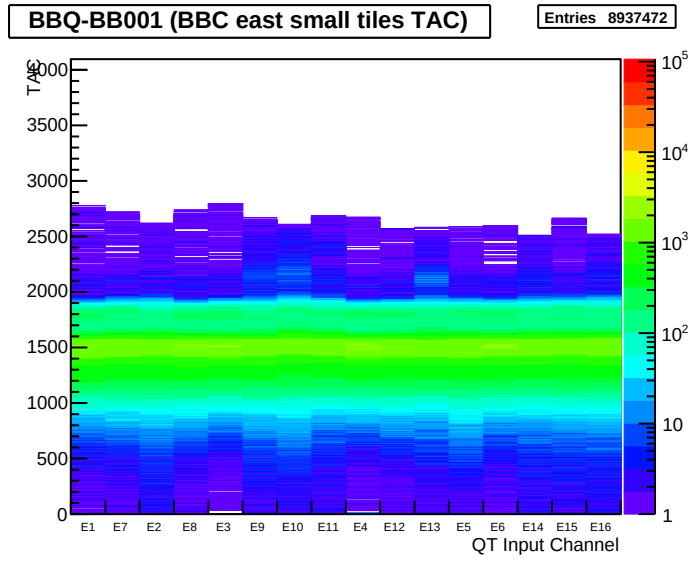

MIX-MT101 Input: VP003 Max TAC
Entries 558592

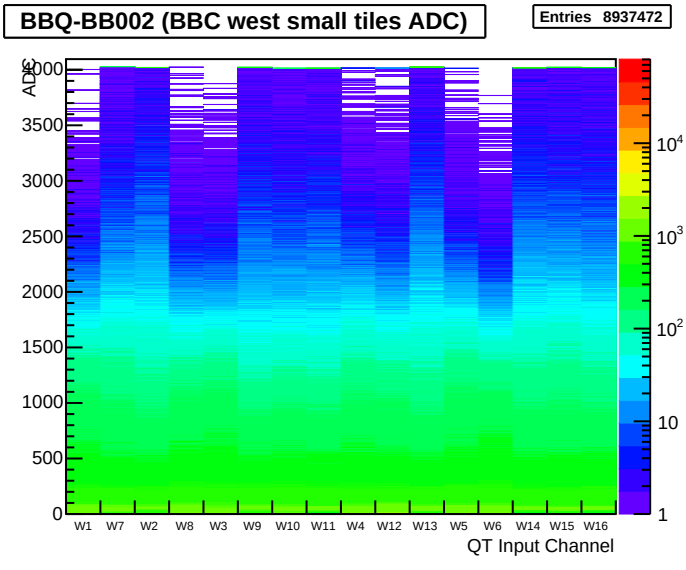

MIX-MT101 Input: VP004 Max TAC
Entries 558592

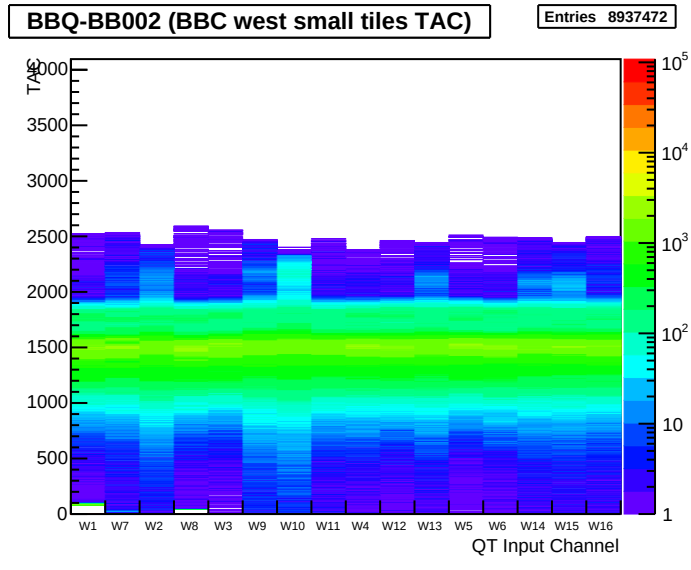

MXQ-PP001
Entries 8937472
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

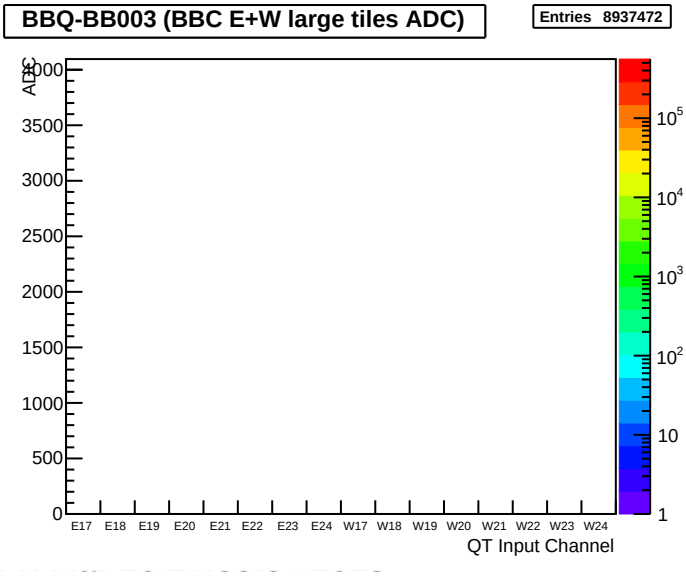

MXQ-PP001
Entries 8937472
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

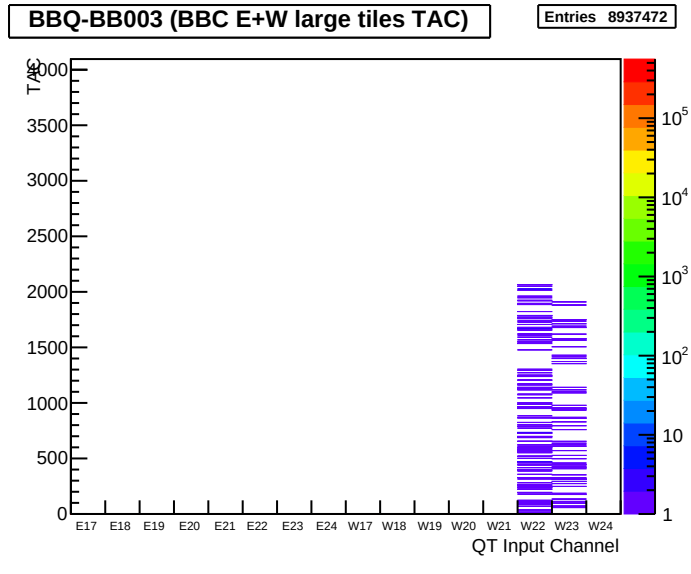

BBQ-BB001 (BBC east small tiles ADC)
Entries 8937472
ADC
QT Input Channel

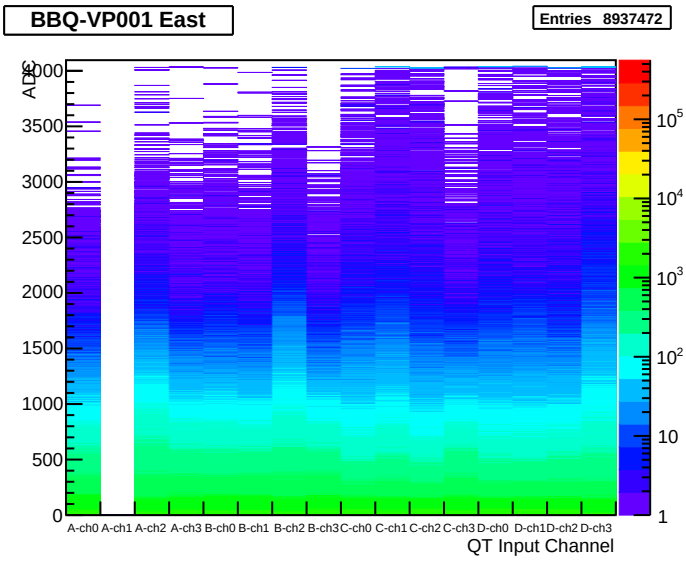

BBQ-BB001 (BBC east small tiles TAC)
Entries 8937472
TAC
QT Input Channel

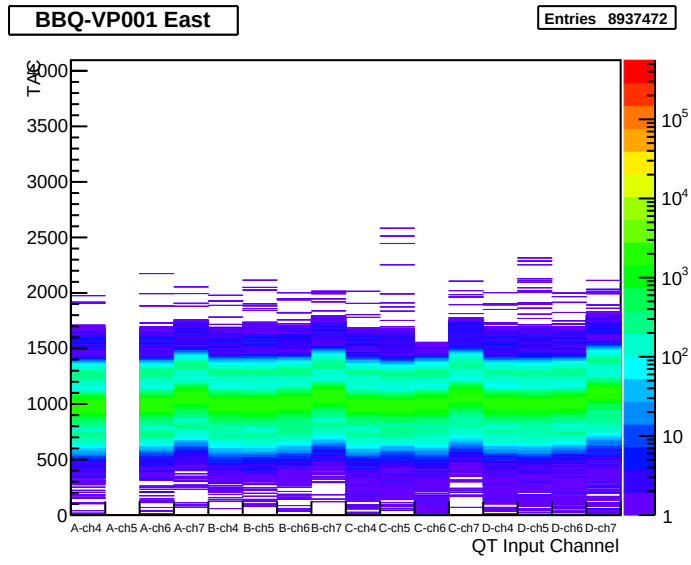

BBQ-BB002 (BBC west small tiles ADC)
Entries 8937472
ADC
QT Input Channel

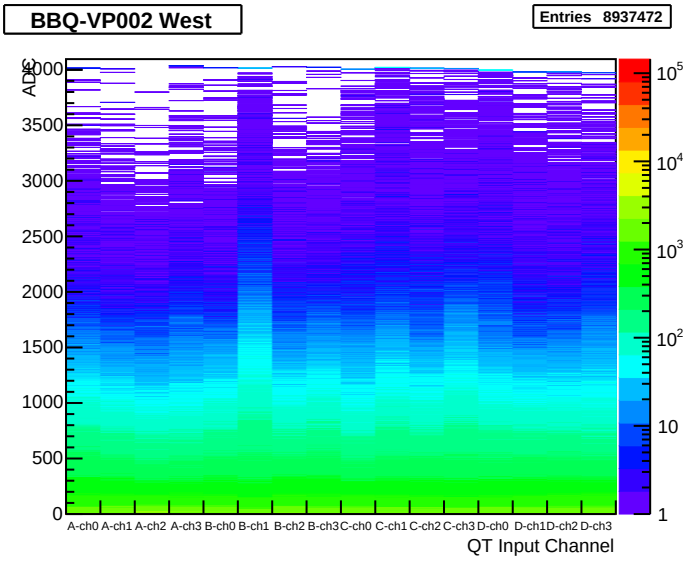

BBQ-BB002 (BBC west small tiles TAC)
Entries 8937472
TAC
QT Input Channel

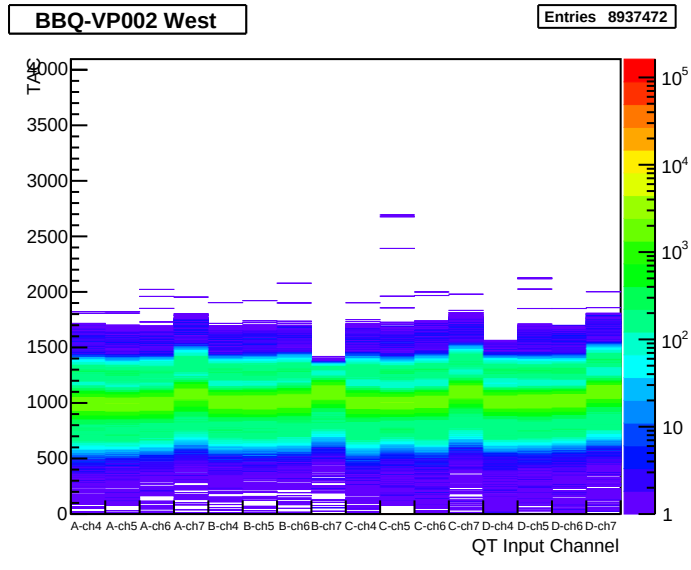

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8937472
ADC
QT Input Channel

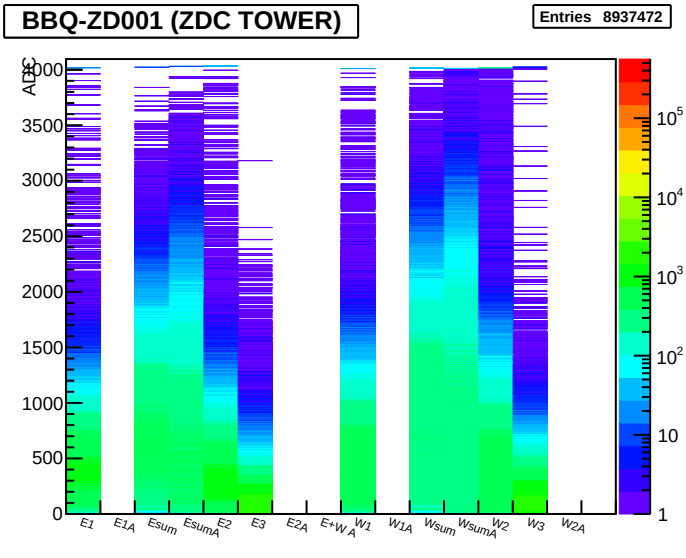

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8937472
TAC
QT Input Channel

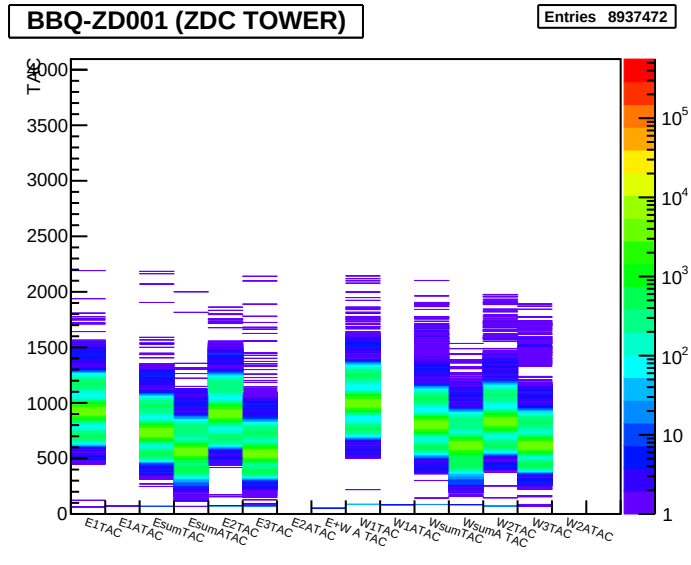

BBQ-VP001 East
Entries 8937472
ADC
QT Input Channel

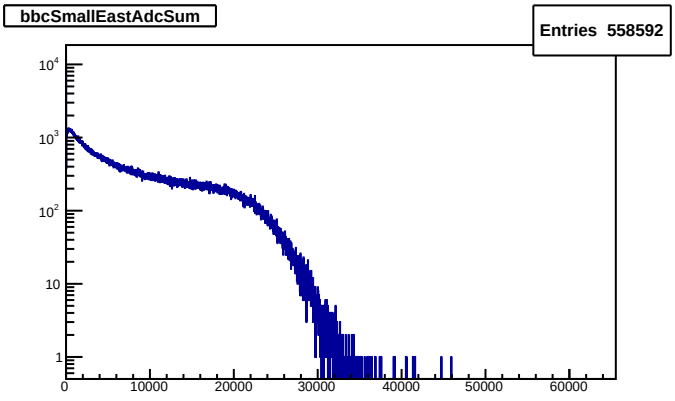

BBQ-VP001 East
Entries 8937472
TAC
QT Input Channel

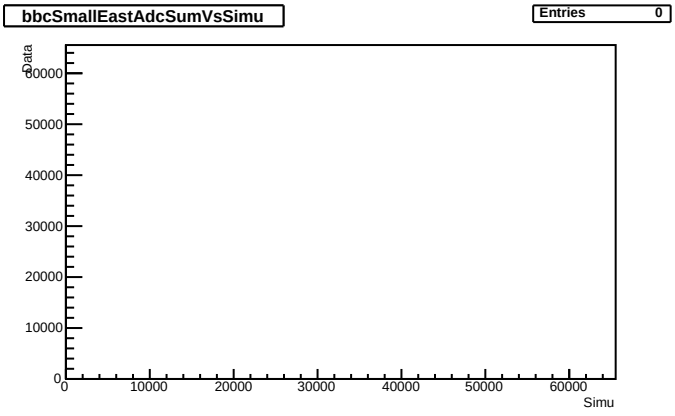

BBQ-VP002 West
Entries 8937472
ADC
QT Input Channel

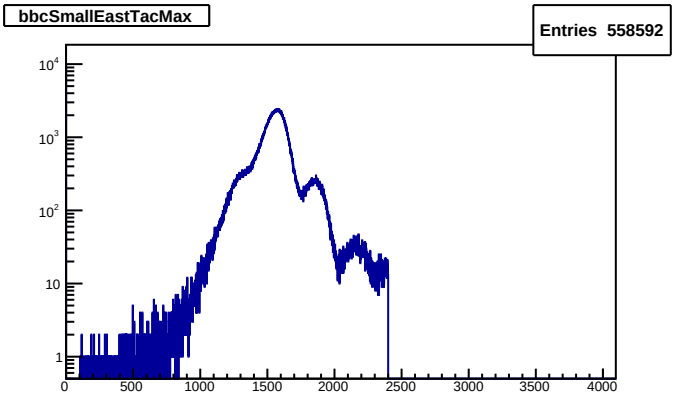

BBQ-VP002 West
Entries 8937472
TAC
QT Input Channel

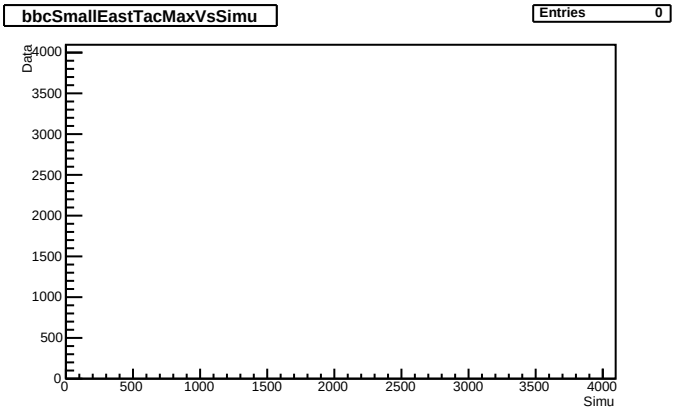

BBQ-ZD001 (ZDC TOWER)
Entries 8937472
ADC

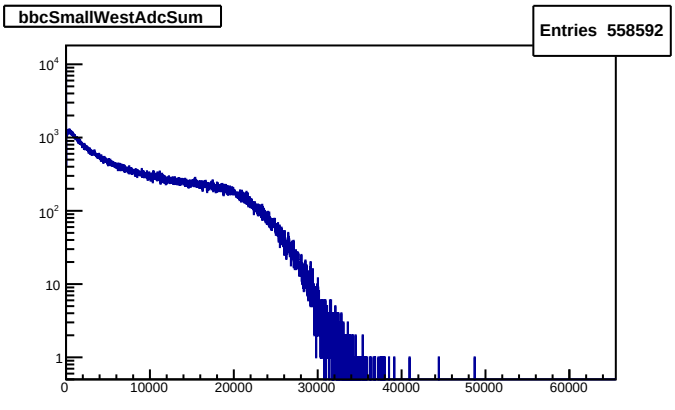

BBQ-ZD001 (ZDC TOWER)
Entries 8937472
TAC

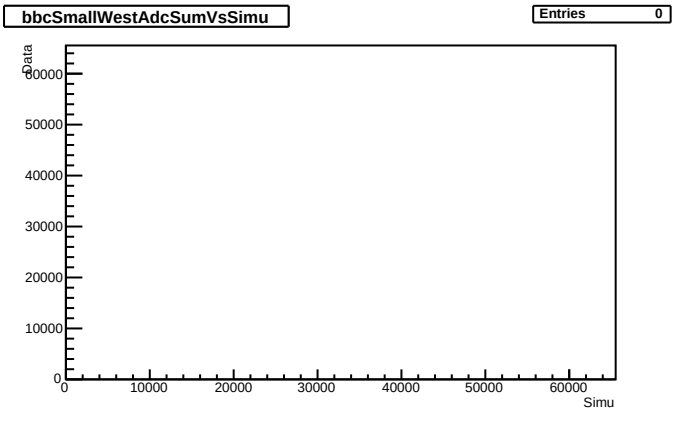

bbcSmallEastAdcSum
Entries 558592

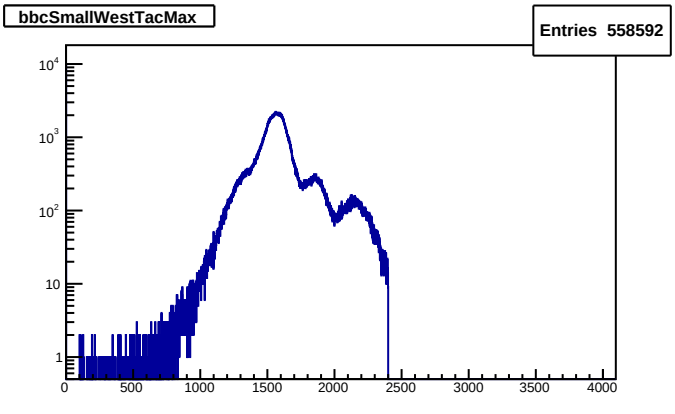

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

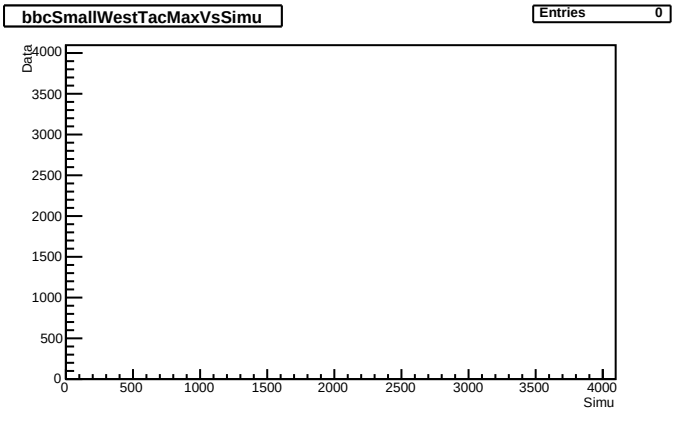

bbcSmallEastTacMax
Entries 558592

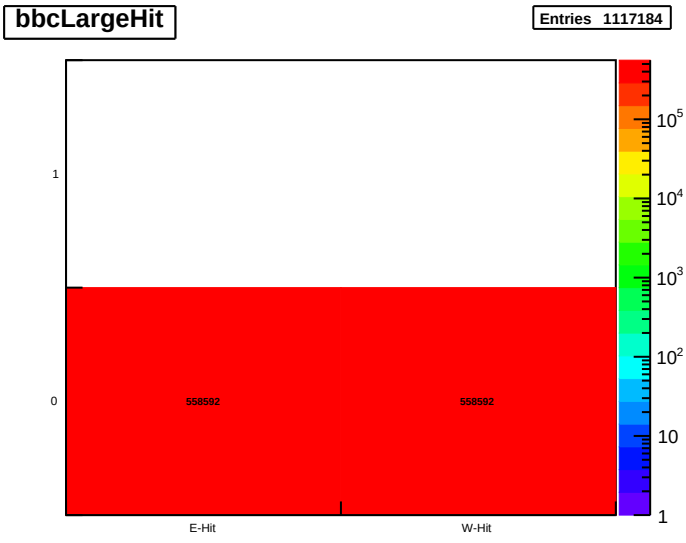

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

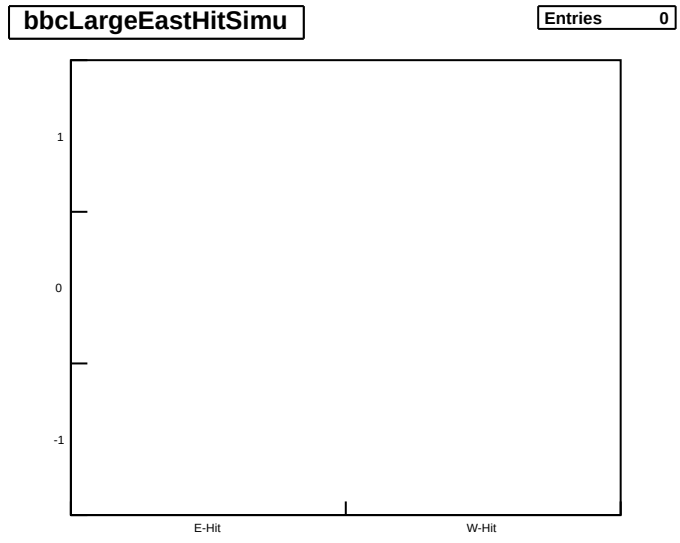

bbcSmallWestAdcSum
Entries 558592

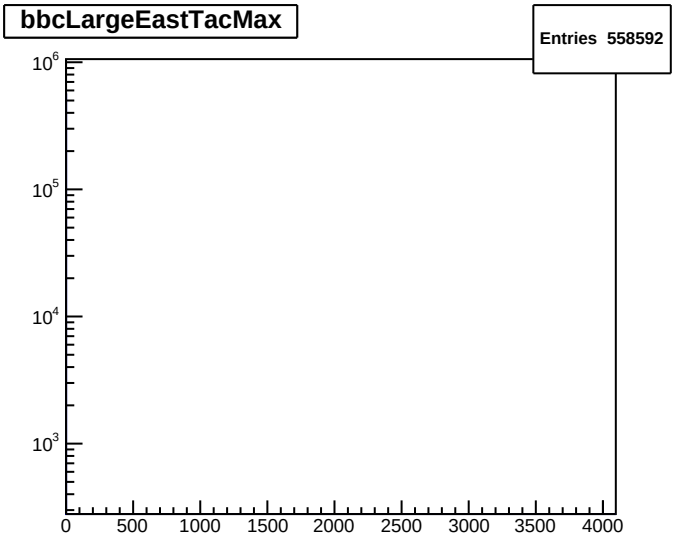

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

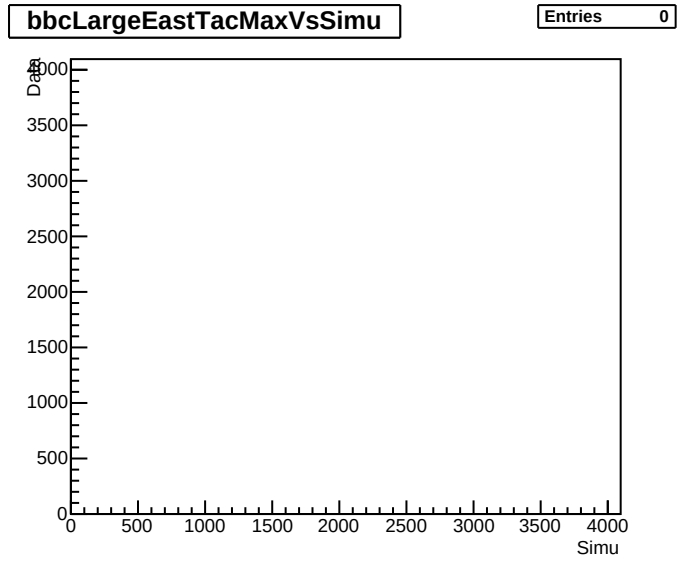

bbcSmallWestTacMax
Entries 558592

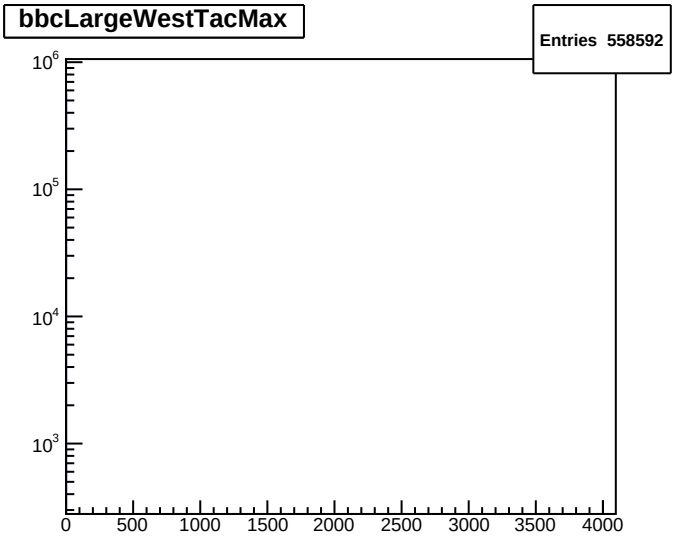

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

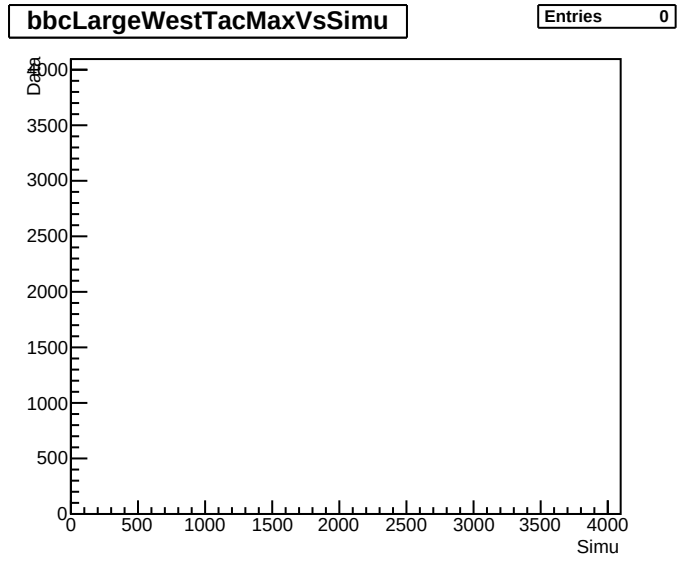

bbcLargeHit
Entries 1117184
558592
558592
E-Hit
W-Hit

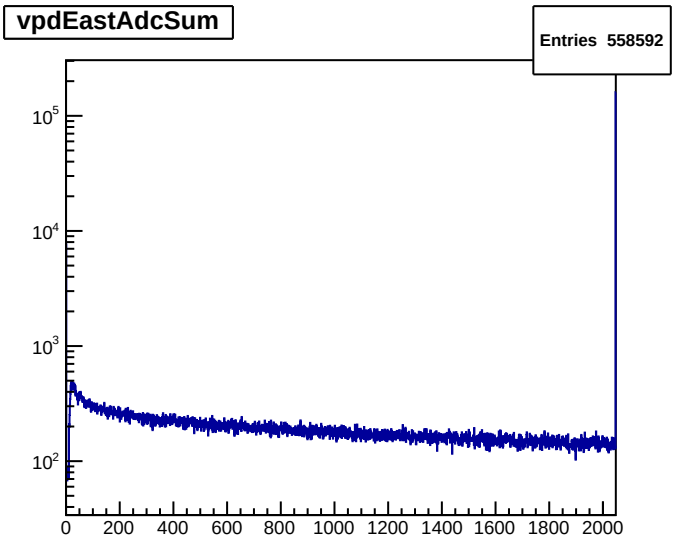

bbcLargeEastHitSimu
Entries 0
E-Hit
W-Hit

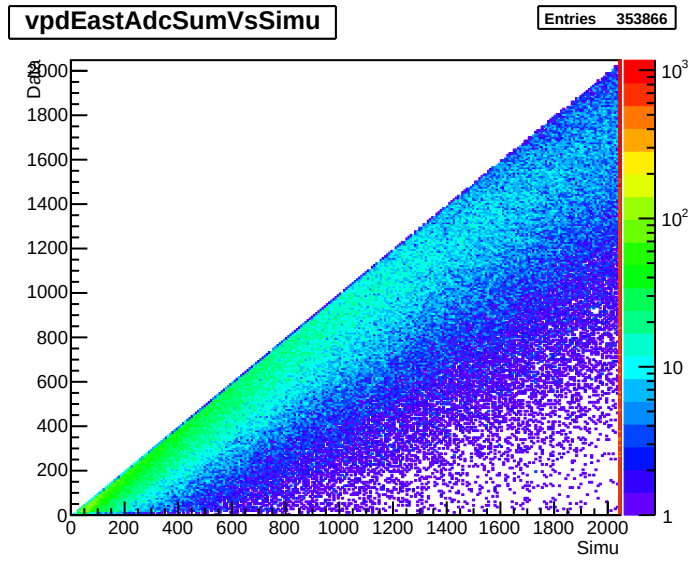

bbcLargeEastTacMax
Entries 558592

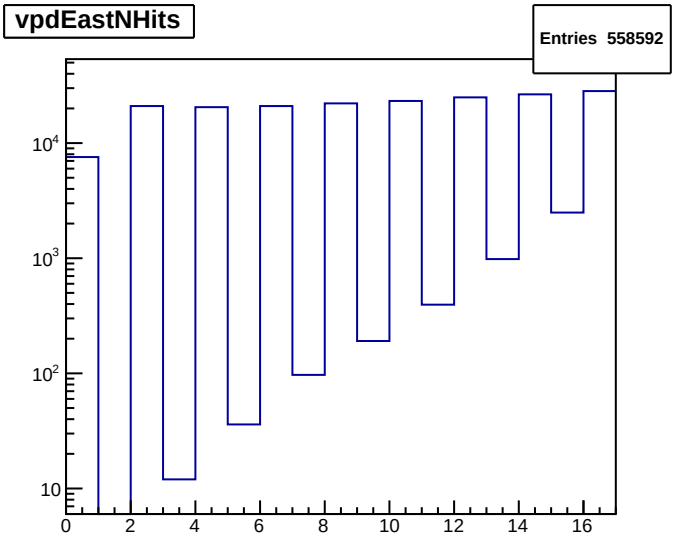

bbcLargeEastTacMaxVsSimu
Entries 0
Data
Simu

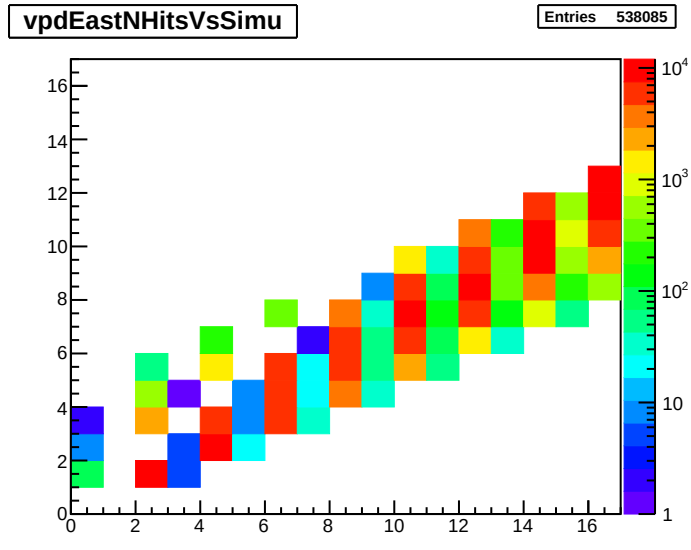

bbcLargeWestTacMax
Entries 558592

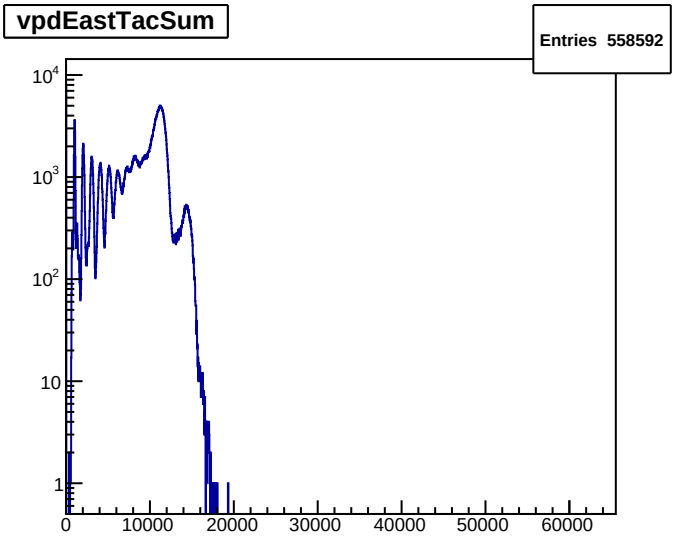

bbcLargeWestTacMaxVsSimu
Entries 0
Data
Simu

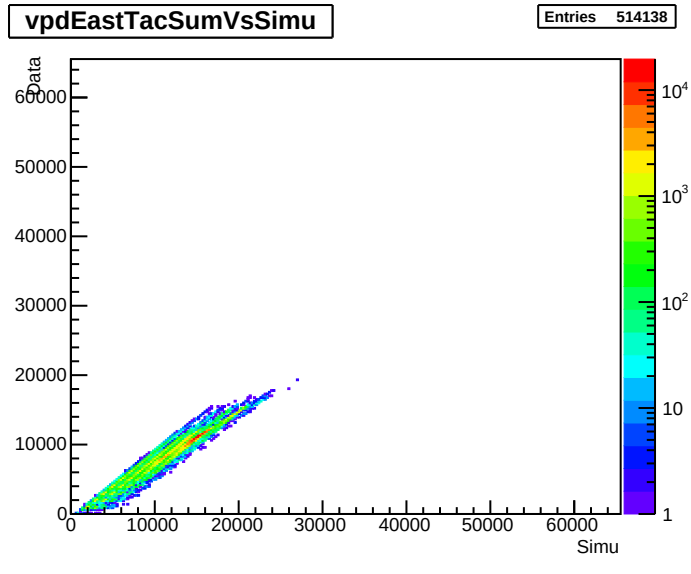

vpdEastAdcSum
Entries 558592

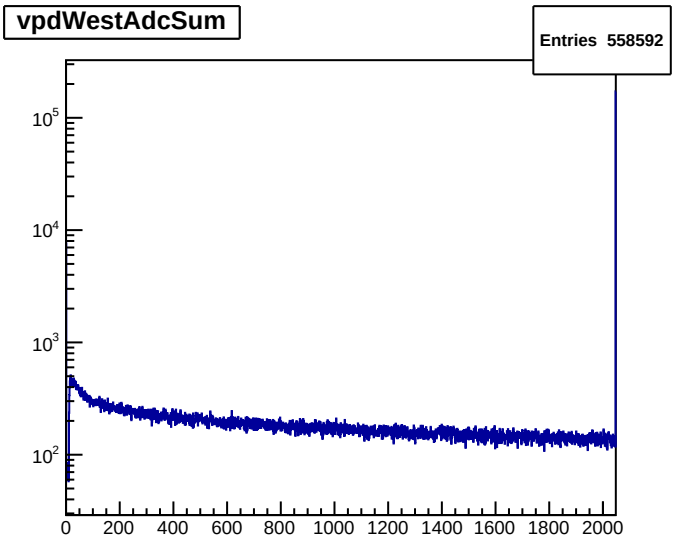

vpdEastAdcSumVsSimu
Entries 353866
Data
Simu

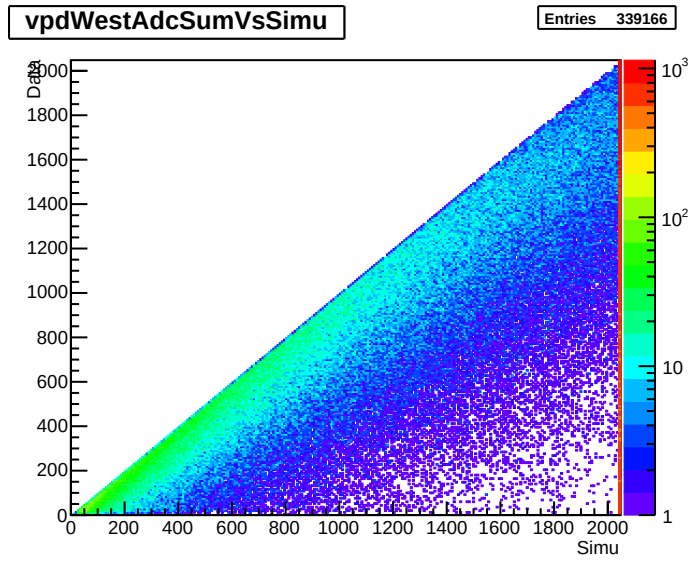

vpdEastNHits
Entries 558592

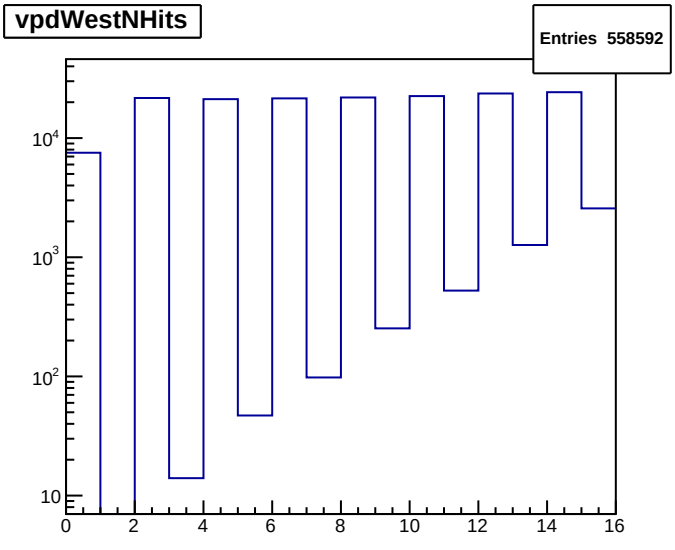

vpdEastNHitsVsSimu
Entries 538085

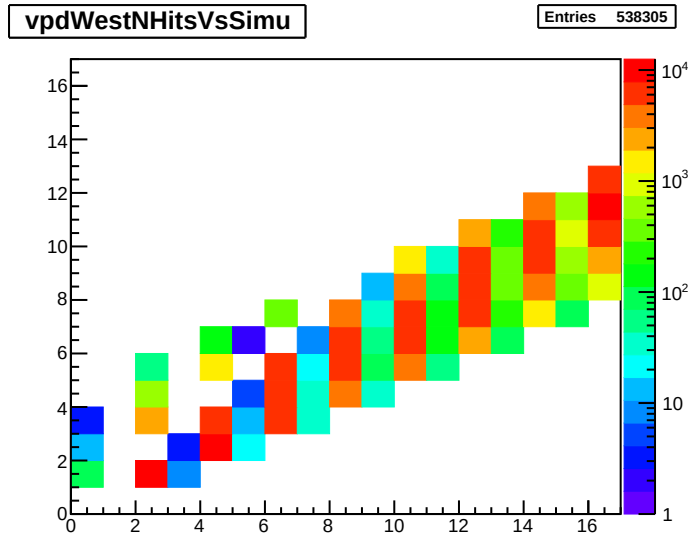

vpdEastTacSum
Entries 558592

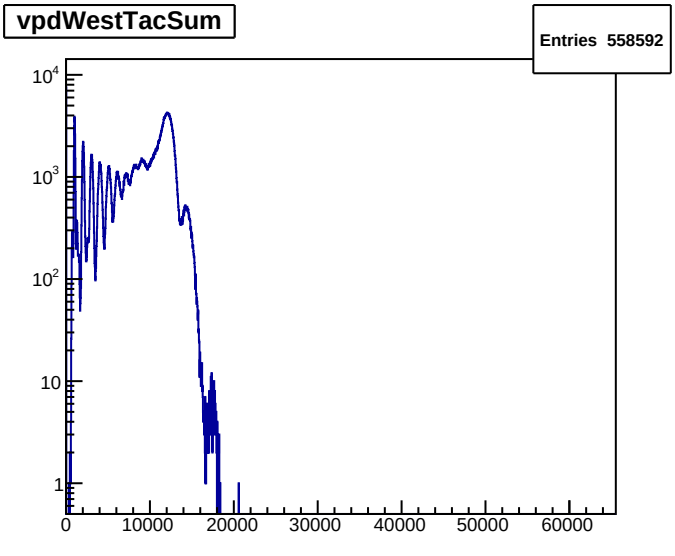

vpdEastTacSumVsSimu
Entries 514138
Data
Simu

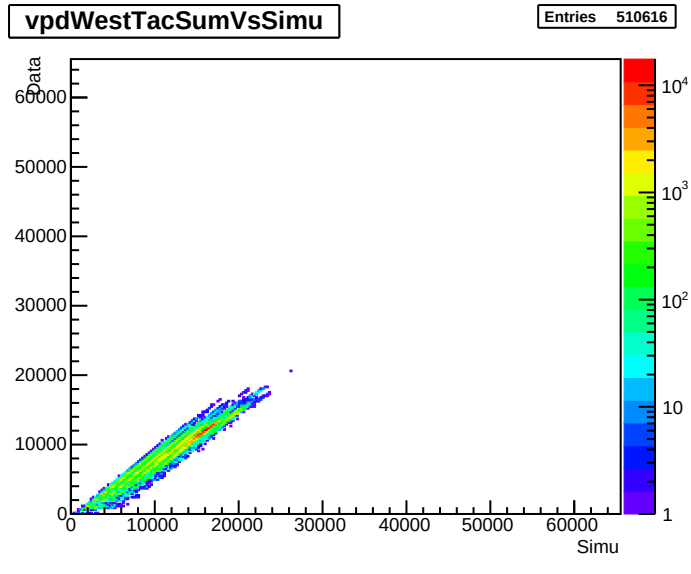

vpdWestAdcSum
Entries 558592

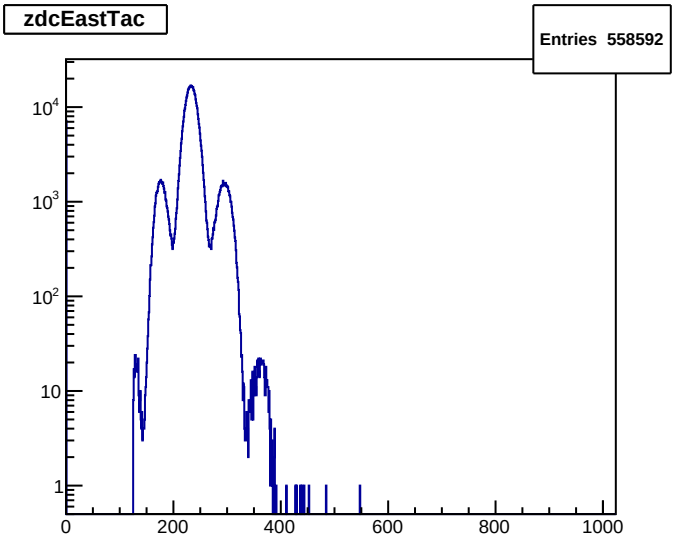

vpdWestAdcSumVsSimu
Entries 339166
Data
Simu

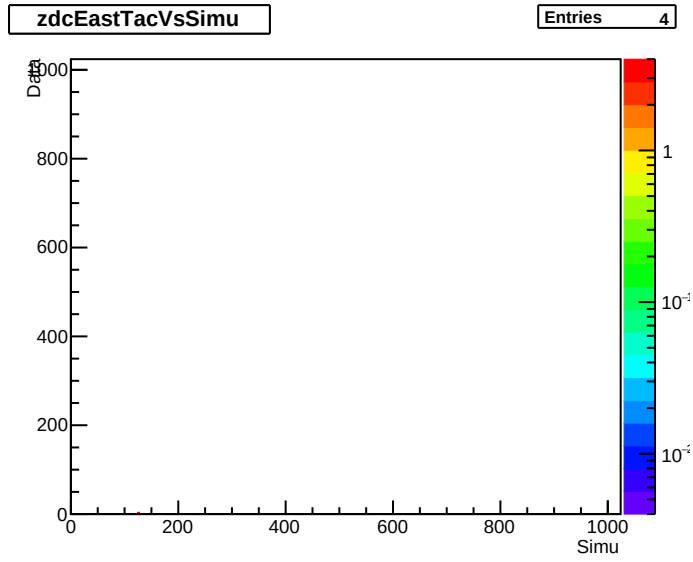

vpdWestNHits
Entries 558592

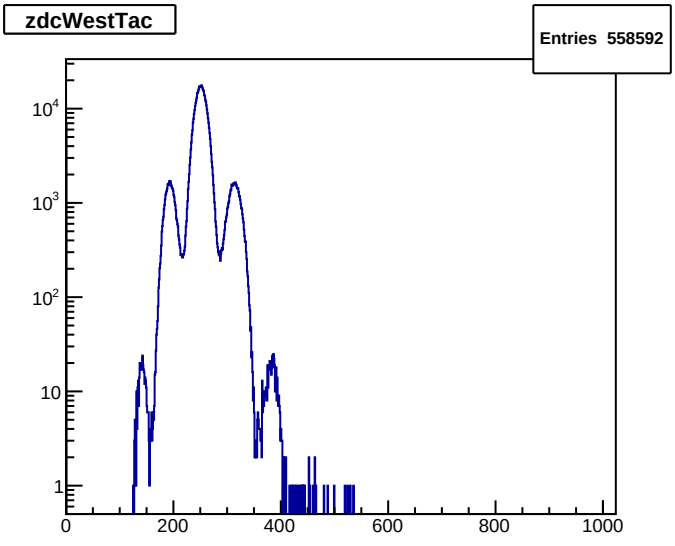

vpdWestNHitsVsSimu
Entries 538305

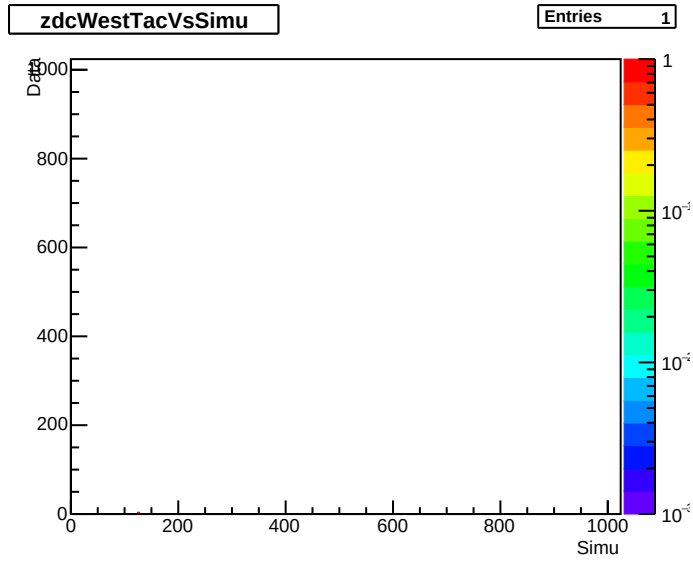

vpdWestTacSum
Entries 558592

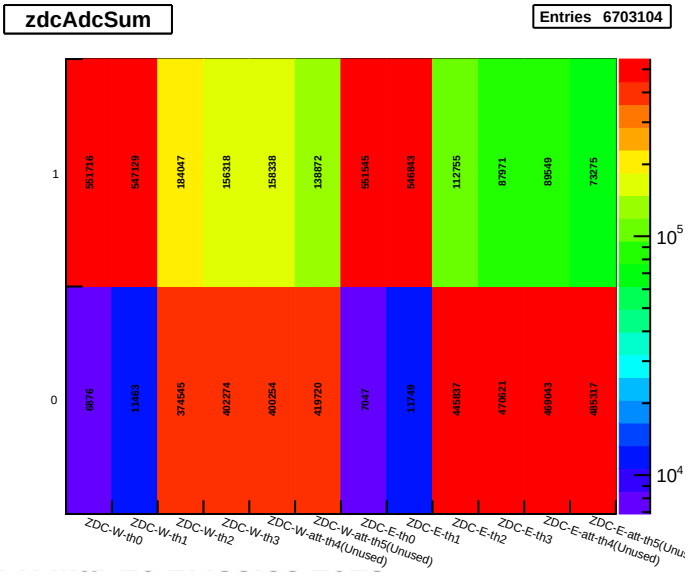

vpdWestTacSumVsSimu
Entries 510616
Data
Simu

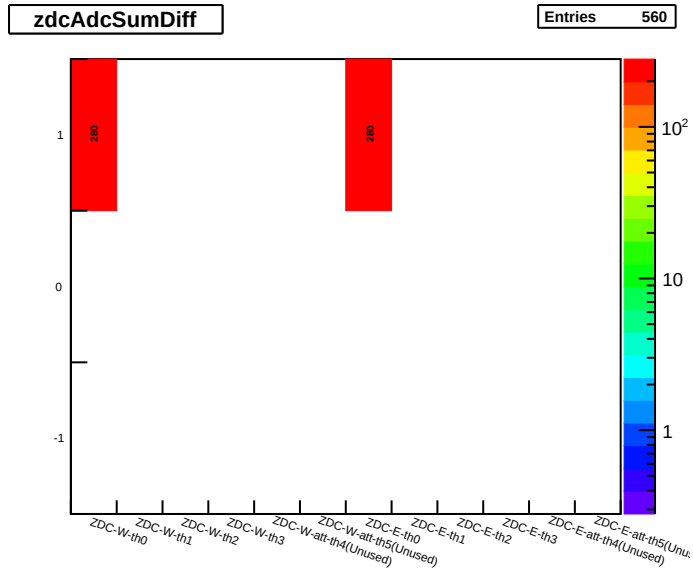

zdcEastTac
Entries 558592

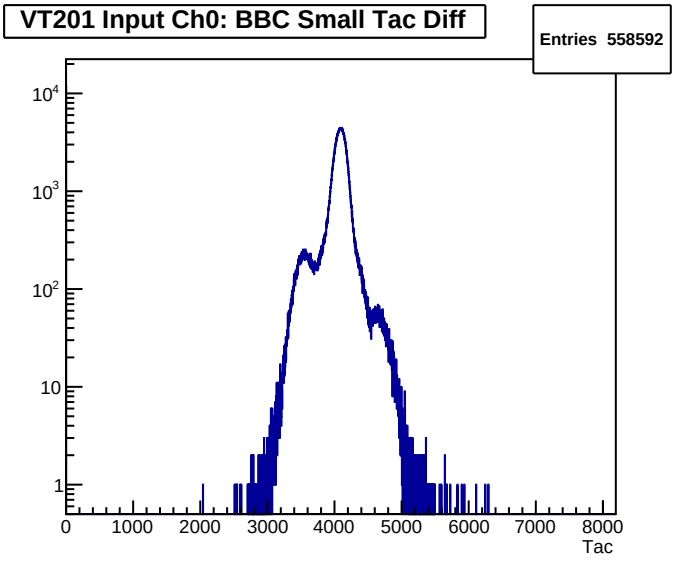

zdcEastTacVsSimu
Entries 4
Data
Simu

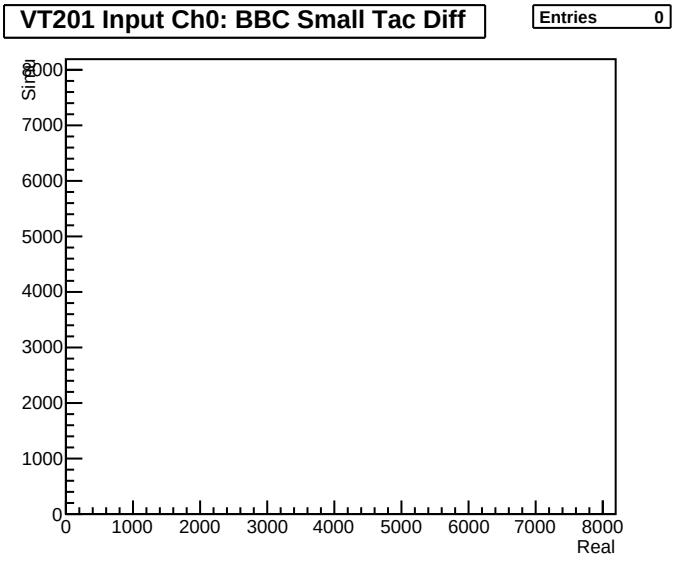

zdcWestTac
Entries 558592

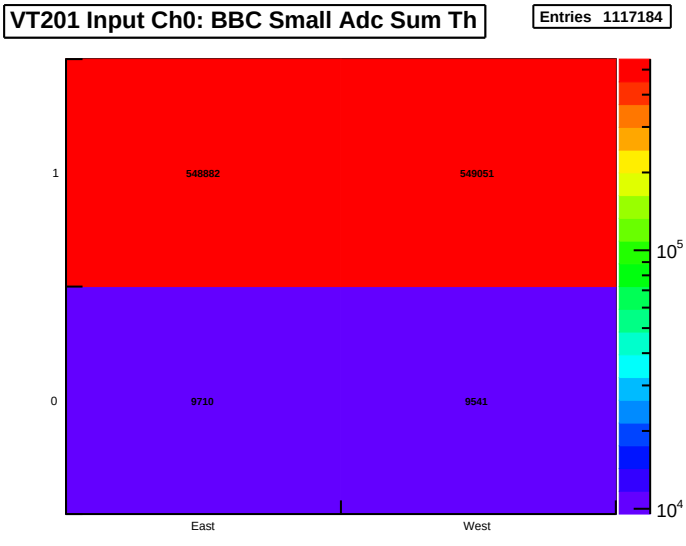

zdcWestTacVsSimu
Entries 1
Data
Simu

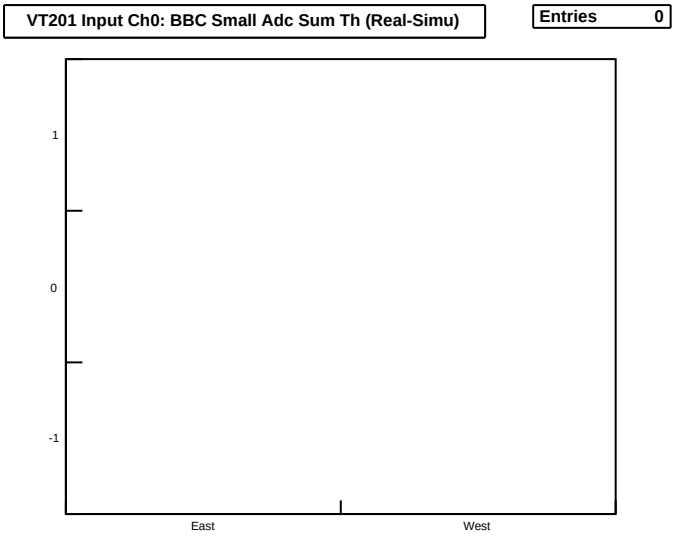

zdcAdcSum
Entries 6703104
551716
547129
184047
156318
158338
138872
551545
546843
112755
87971
89549
73275
6876
11463
374545
402274
400254
419720
7047
11749
445837
476621
469043
485317
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

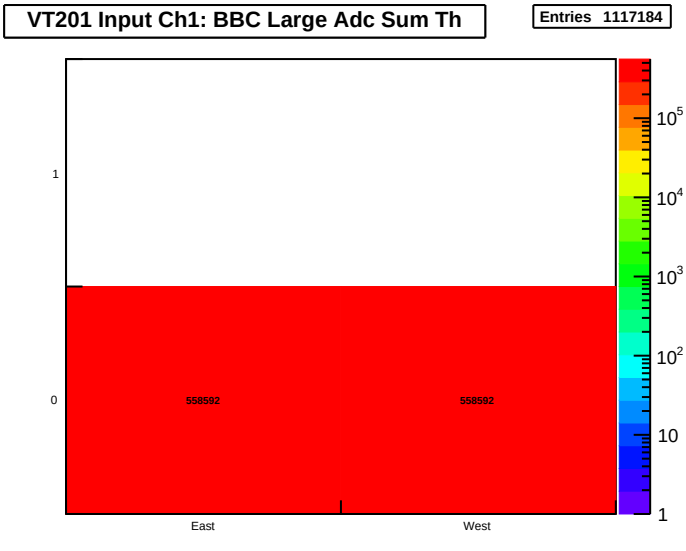

zdcAdcSumDiff
Entries 560
280
280
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

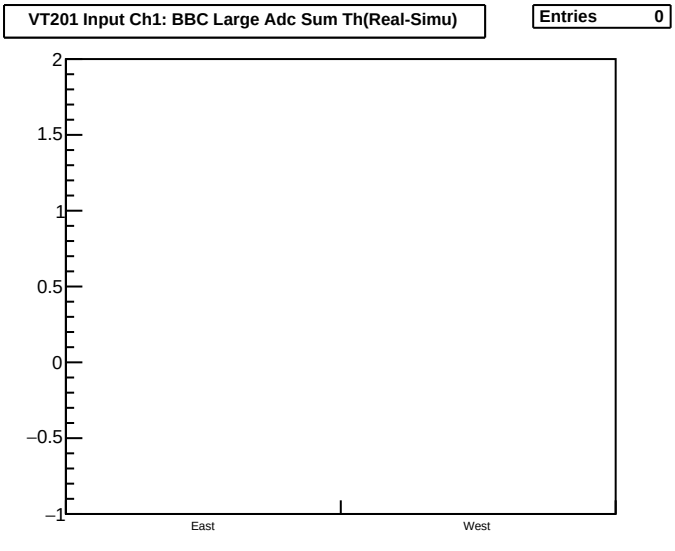

VT201 Input Ch0: BBC Small Tac Diff
Entries 558592
Tac

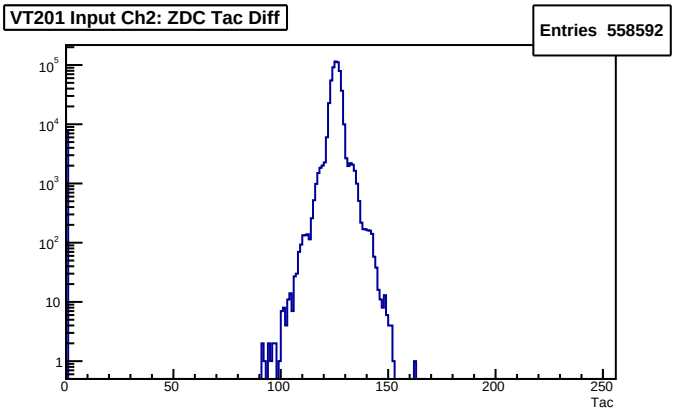

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

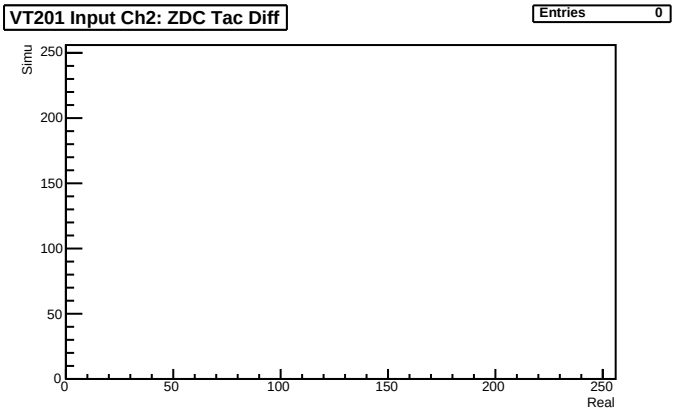

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1117184
548882
549051
9710
9541
East
West

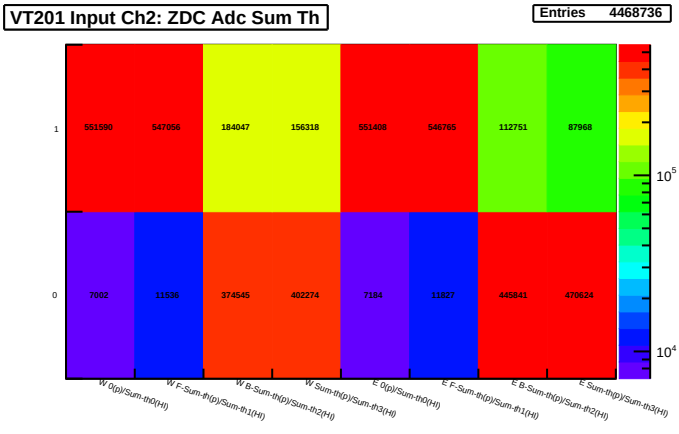

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

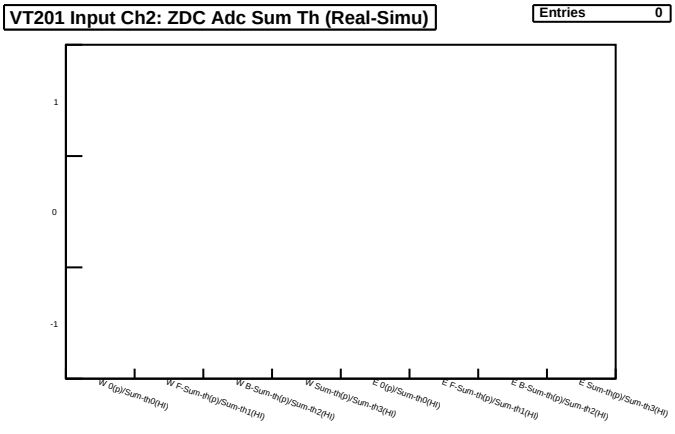

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 1117184
558592
558592
East
West

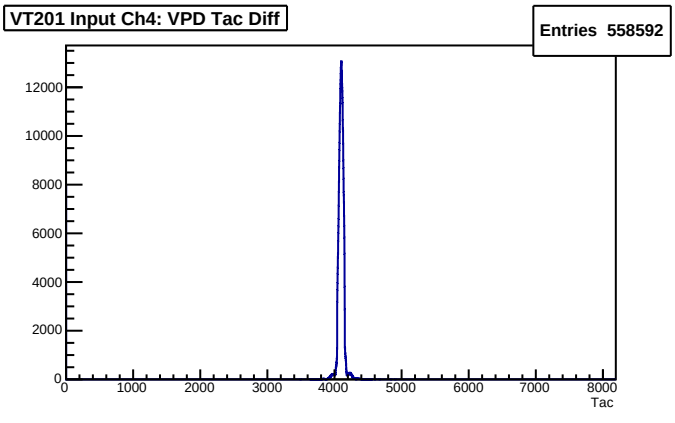

VT201 Input Ch1: BBC Large Adc Sum Th(Real-Simu)
Entries 0
East
West

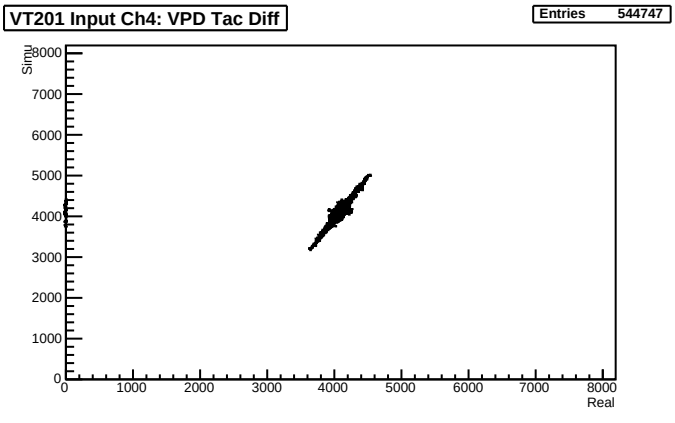

VT201 Input Ch2: ZDC Tac Diff
Entries 558592
Tac

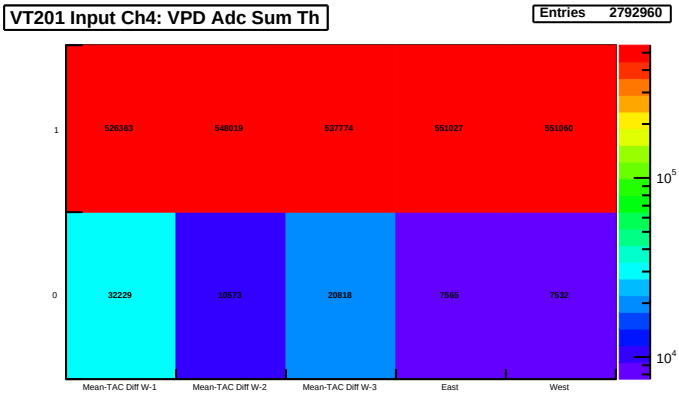

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

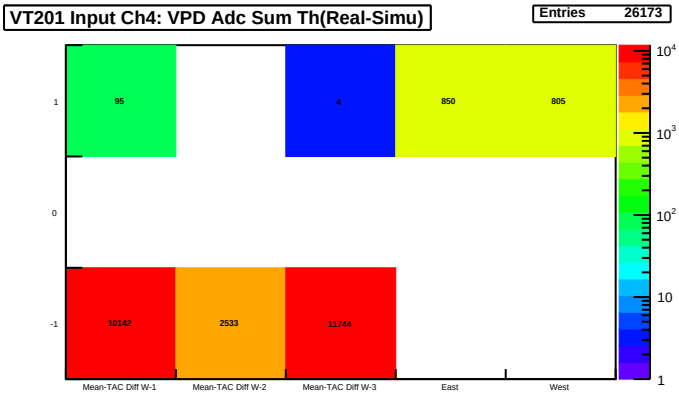

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4468736
551590
547056
184047
156318
551408
546765
112751
87968
7002
11536
374545
402274
7184
11827
445841
470624
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

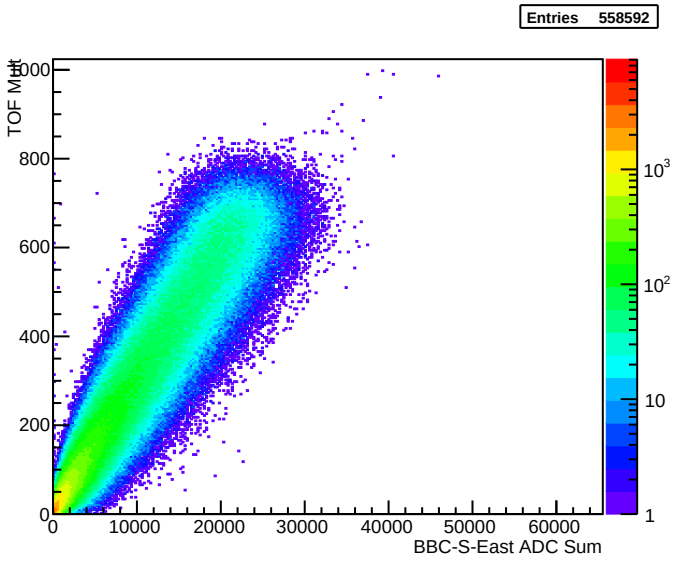

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

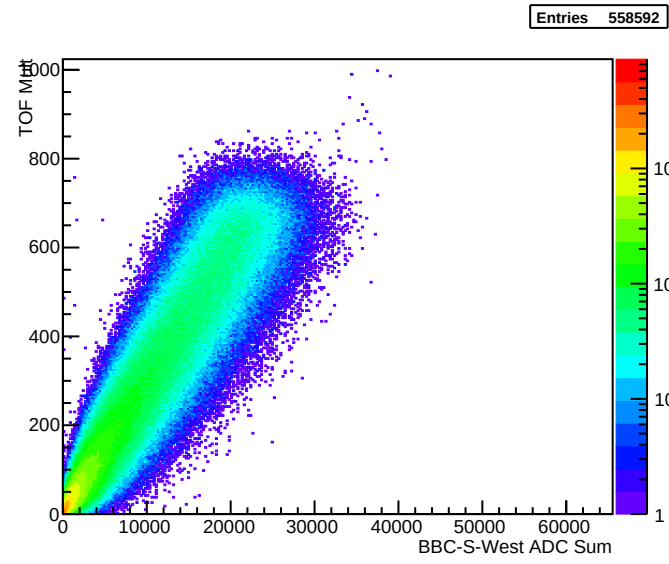

VT201 Input Ch4: VPD Tac Diff
Entries 558592
Tac

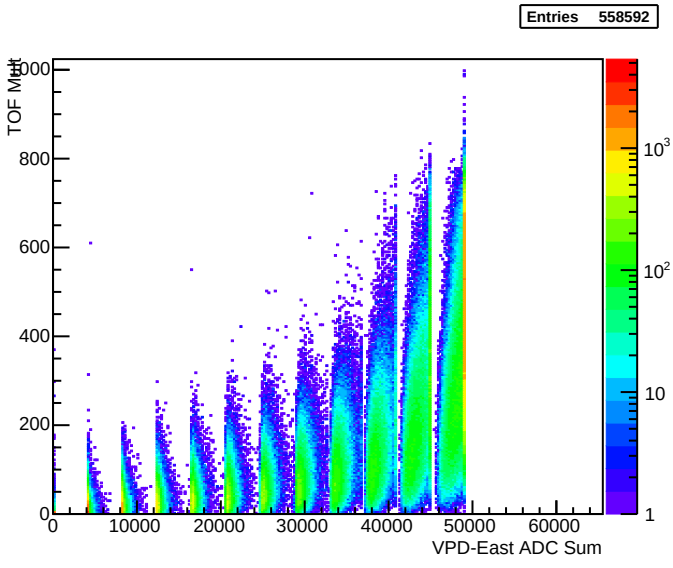

VT201 Input Ch4: VPD Tac Diff
Entries 544747
Simu
Real

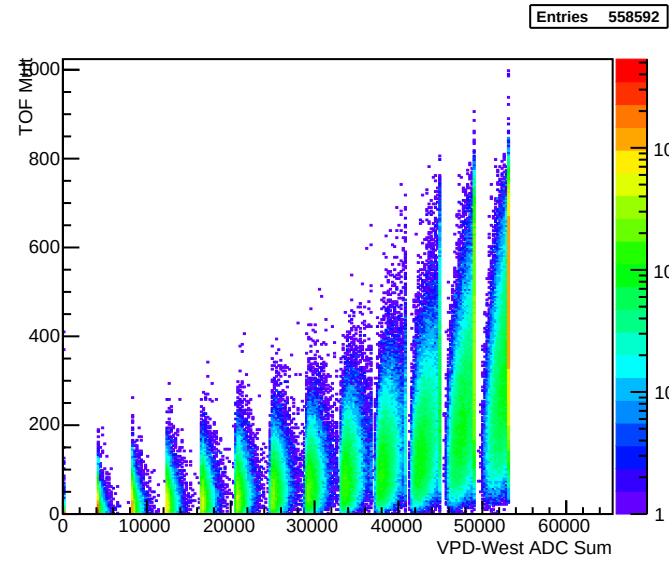

VT201 Input Ch4: VPD Adc Sum Th
Entries 2792960
526363
548019
537774
551027
551060
32229
10573
20818
7565
7532
Mean-TAC Diff W-1
Mean-TAC Diff W-2
Mean-TAC Diff W-3
East
West

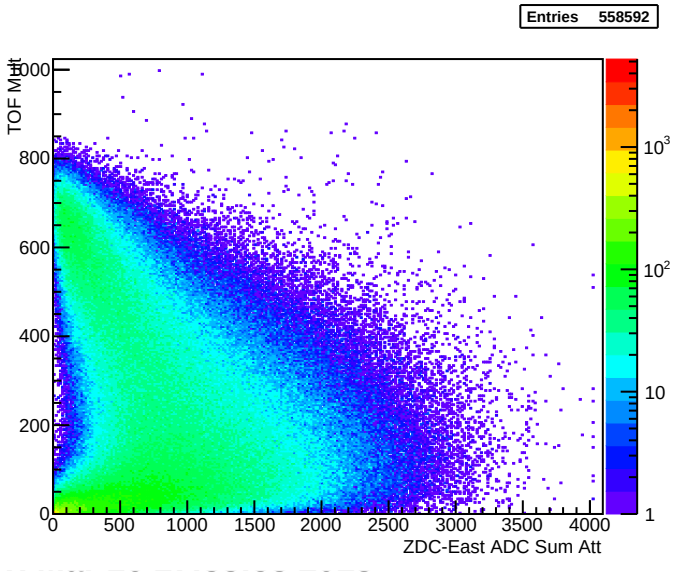

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 26173
95
4
850
805
10142
2533
11744
Mean-TAC Diff W-1
Mean-TAC Diff W-2
Mean-TAC Diff W-3
East
West

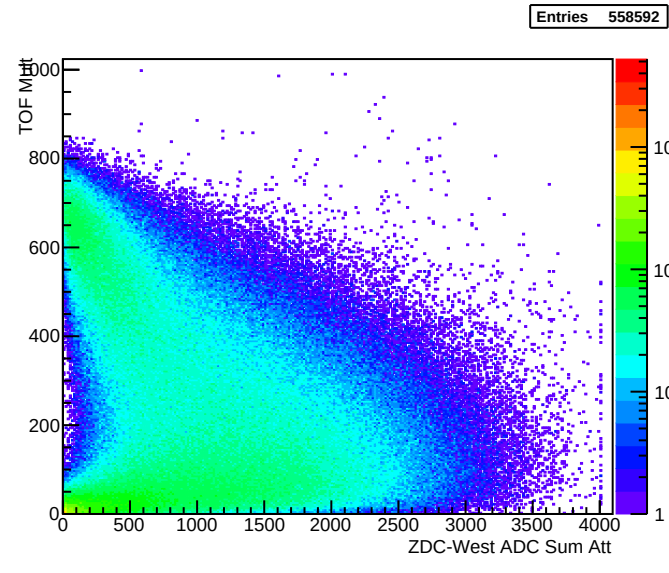

Entries 558592
TOF Mult
BBC-S-East ADC Sum

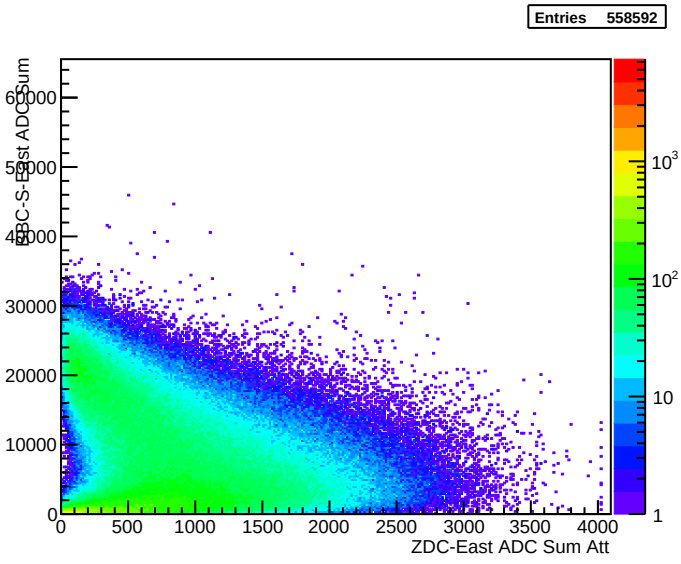

Entries 558592
TOF Mult
BBC-S-West ADC Sum

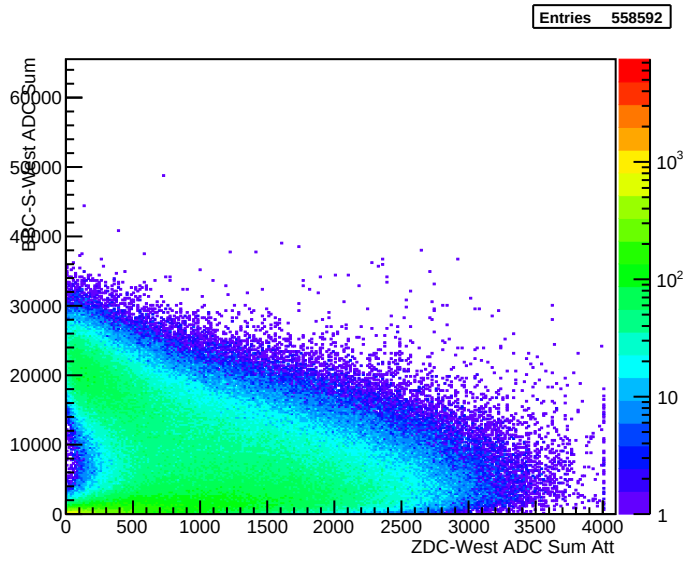

Entries 558592
TOF Mult
VPD-East ADC Sum

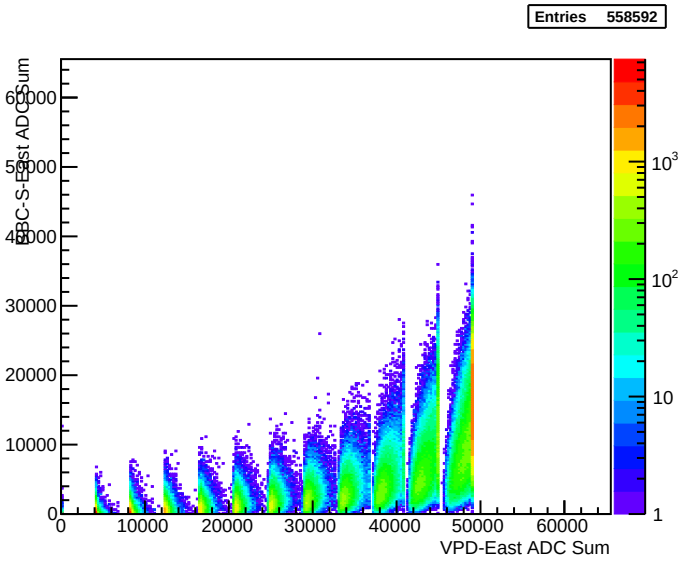

Entries 558592
TOF Mult
VPD-West ADC Sum

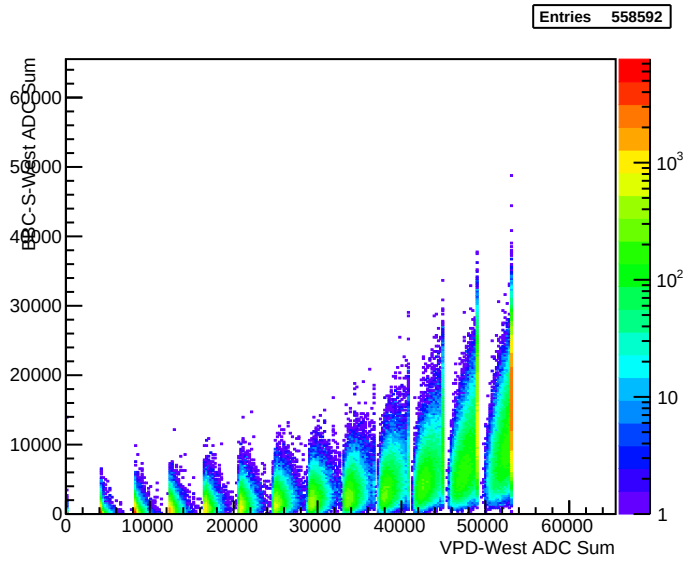

Entries 558592
TOF Mult
ZDC-East ADC Sum Att

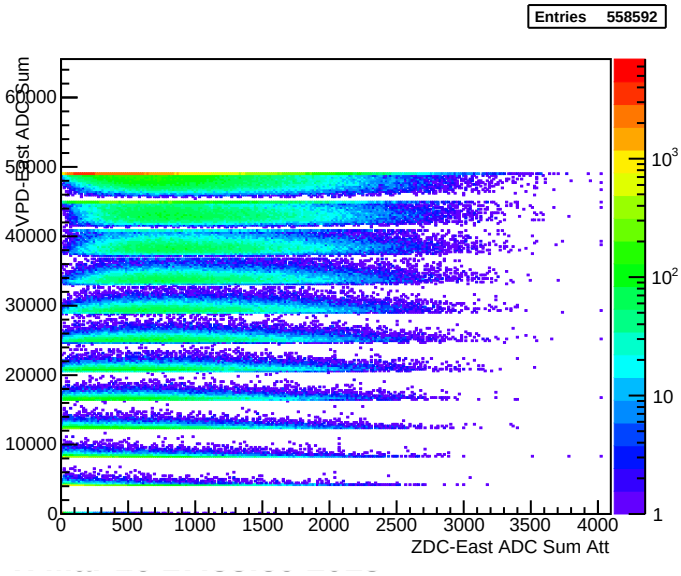

Entries 558592
TOF Mult
ZDC-West ADC Sum Att

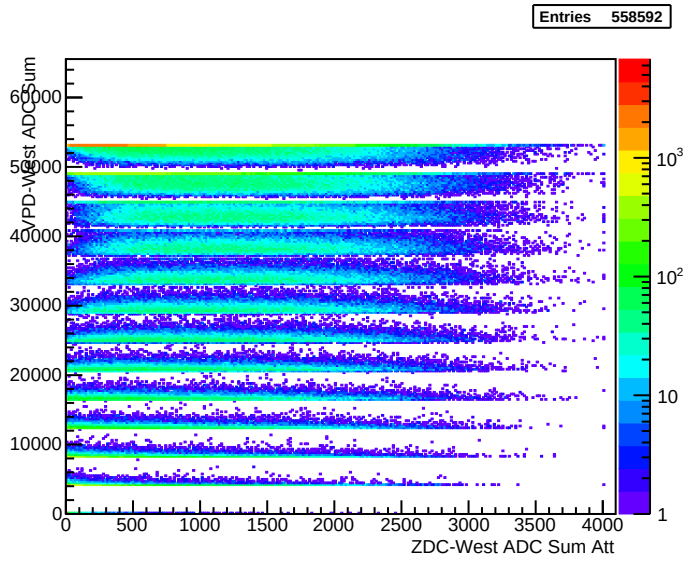

Entries 558592
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

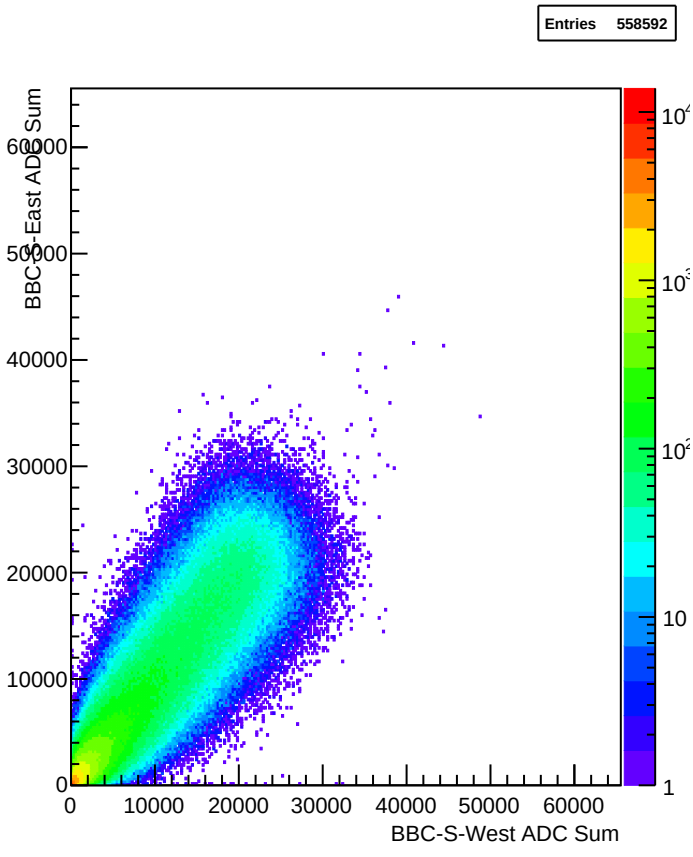

Entries 558592
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

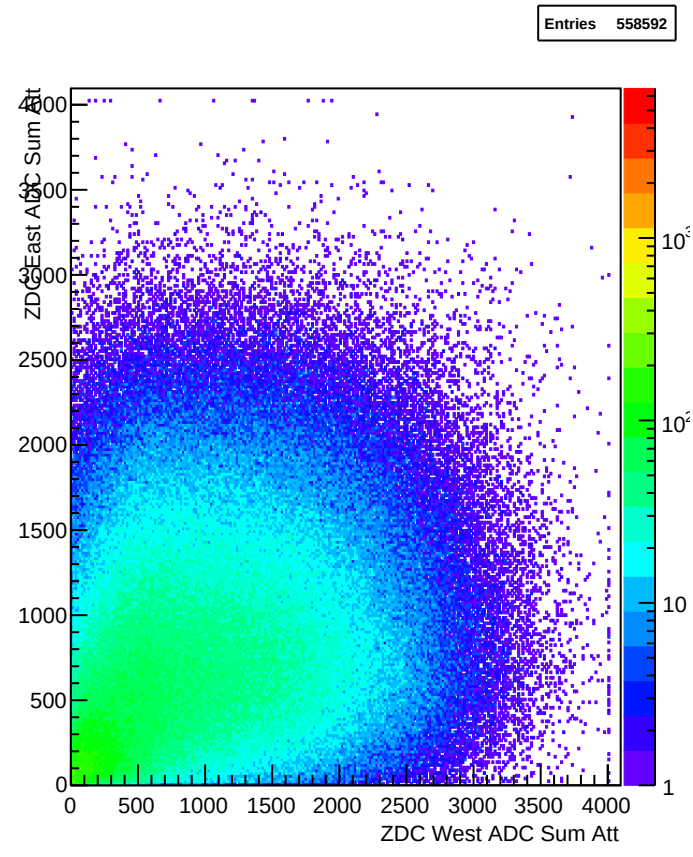

Entries 558592
BBC-S-East ADC Sum
VPD-East ADC Sum

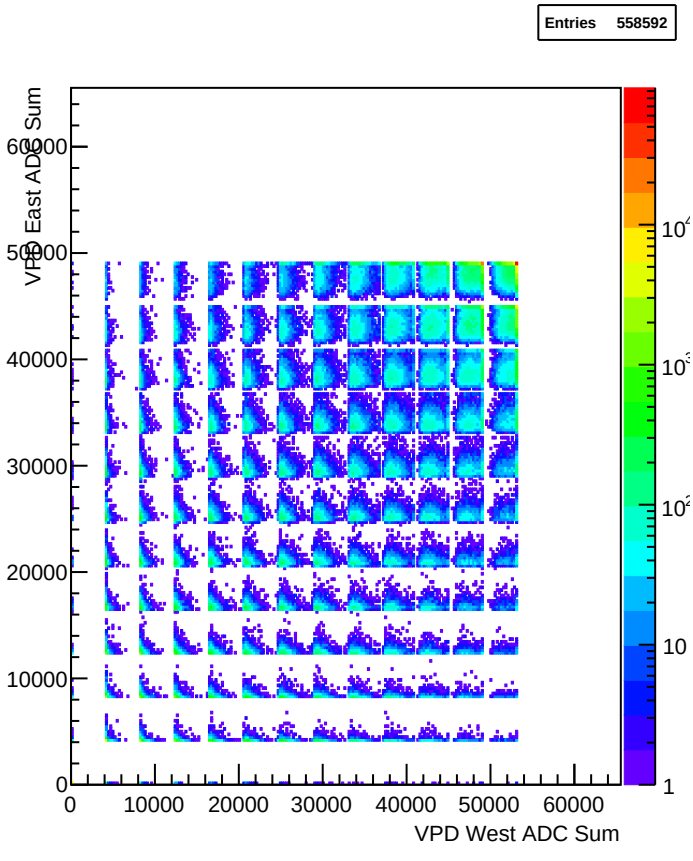

Entries 558592
BBC-S-West ADC Sum
VPD-West ADC Sum

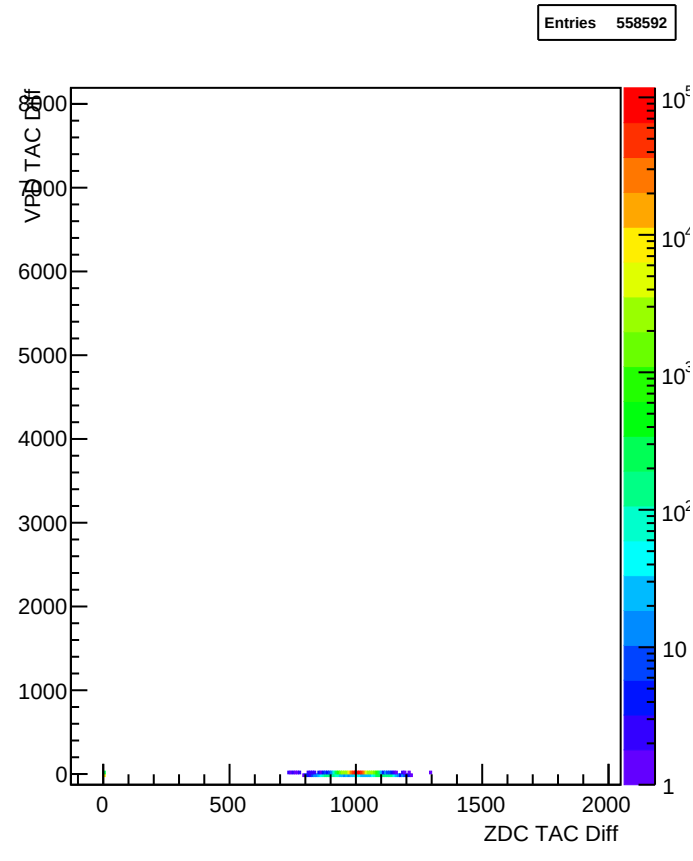

Entries 558592
VPD-East ADC Sum
ZDC-East ADC Sum Att

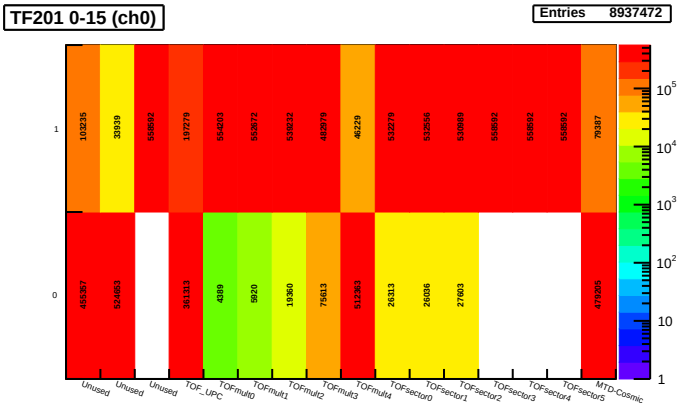

Entries 558592
VPD-West ADC Sum
ZDC-West ADC Sum Att


Entries 558592
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 558592
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 558592
VPD East ADC Sum
VPD West ADC Sum


Entries 558592
VPD TAC Diff
ZDC TAC Diff


TF201 0-15 (ch0)
Entries 8937472
1
0
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Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic
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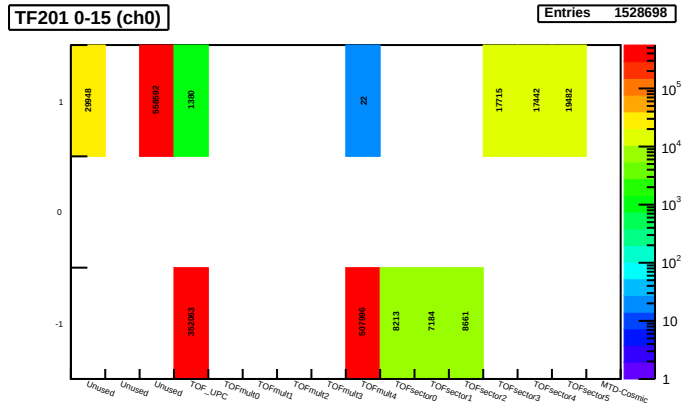
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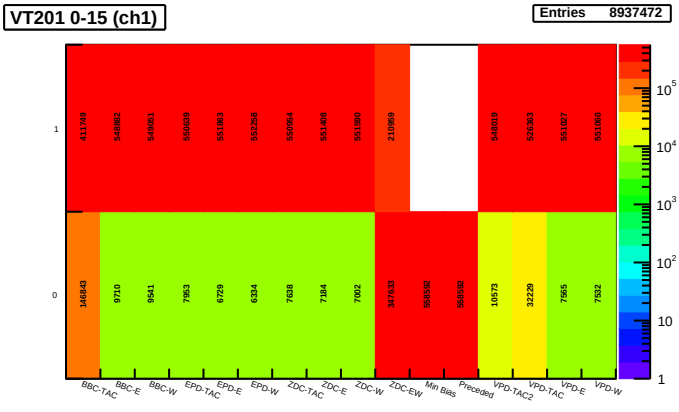
10^5 10^4 10^3 10^2 10 1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BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W
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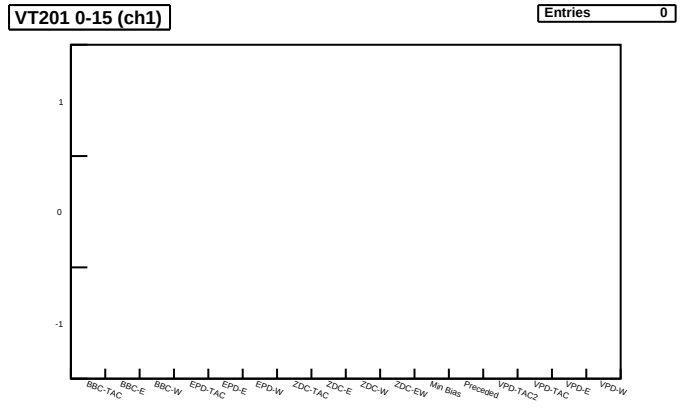
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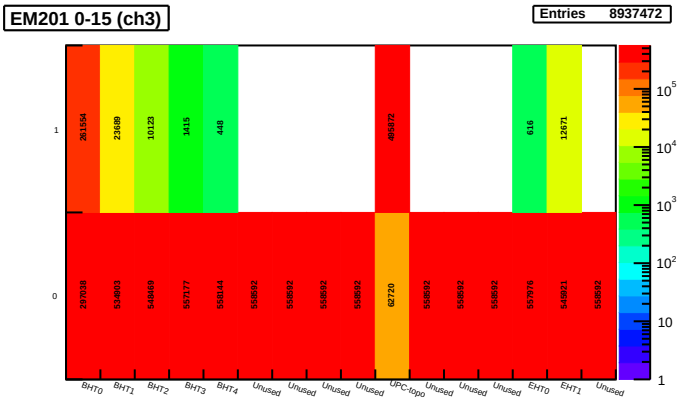
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W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Entries 8937472
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297036 534603 548469 557177 558144 558592 558592 558592 558592 62720 558592 558592 558592 557976 549221 558592
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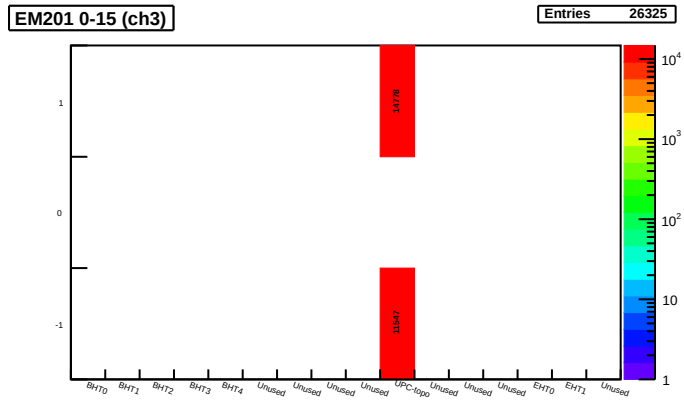
10^5 10^4 10^3 10^2 10 1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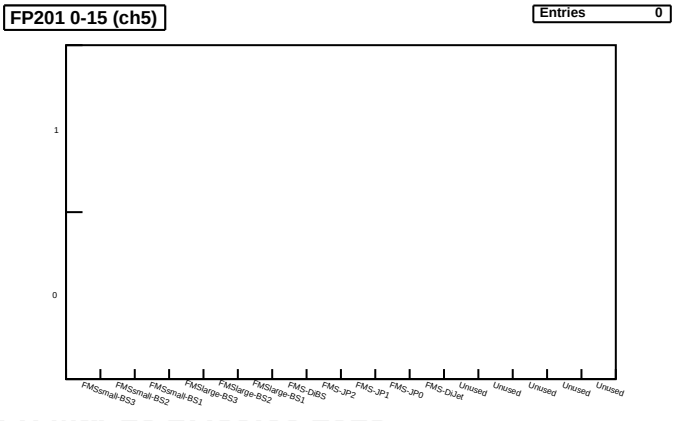
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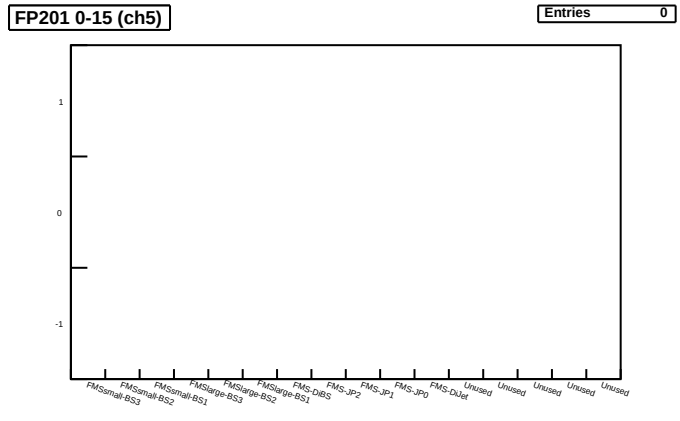
FP201 0-15 (ch5)
Entries 0
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FMSsmall-BS3 FMSsmall-BS2 FMSsmall-BS1 FMSlarge-BS3 FMSlarge-BS2 FMSlarge-BS1 FMS-DiBS FMS-JP2 FMS-JP1 FMS-JP0 FMS-DiJet Unused Unused Unused Unused Unused