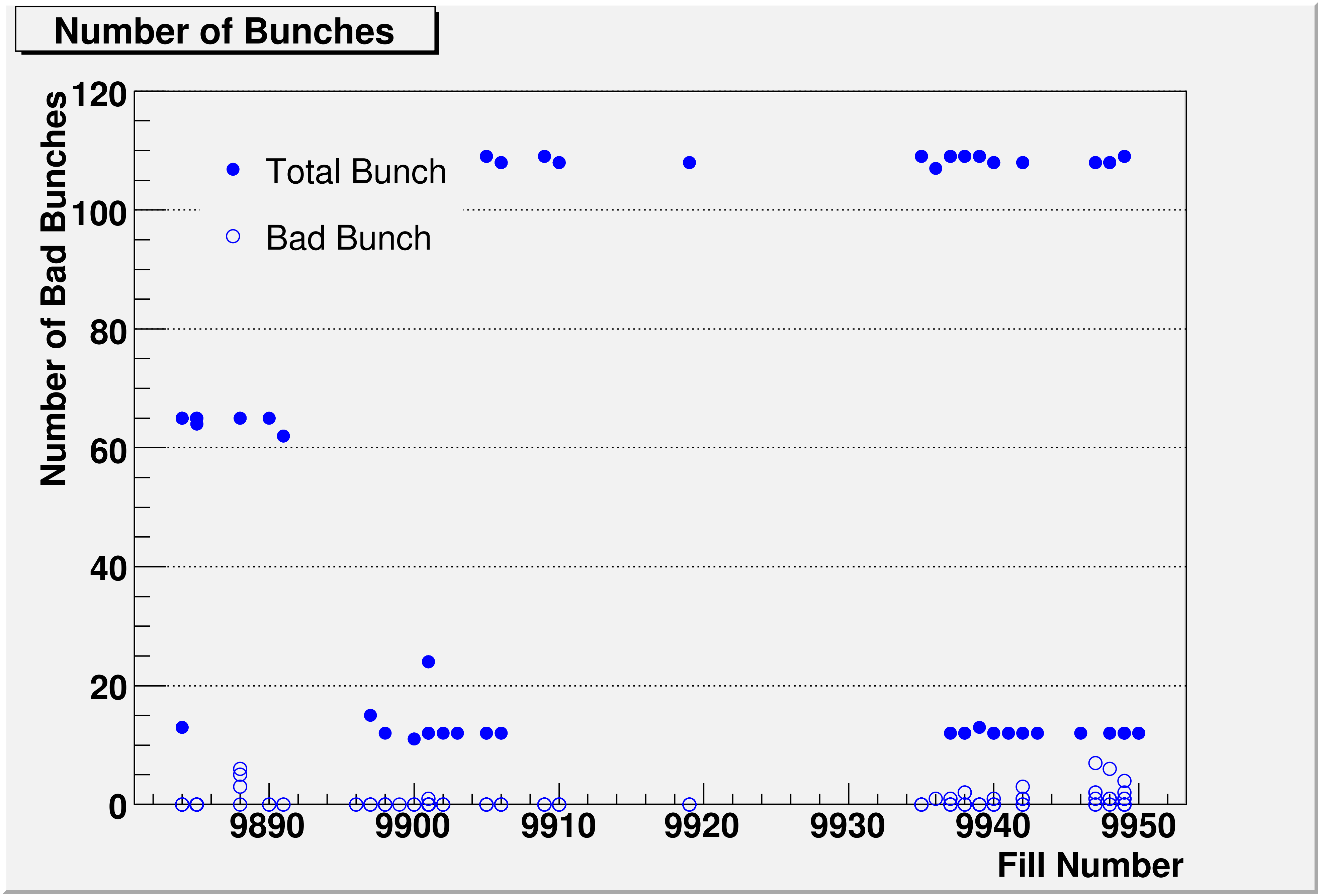
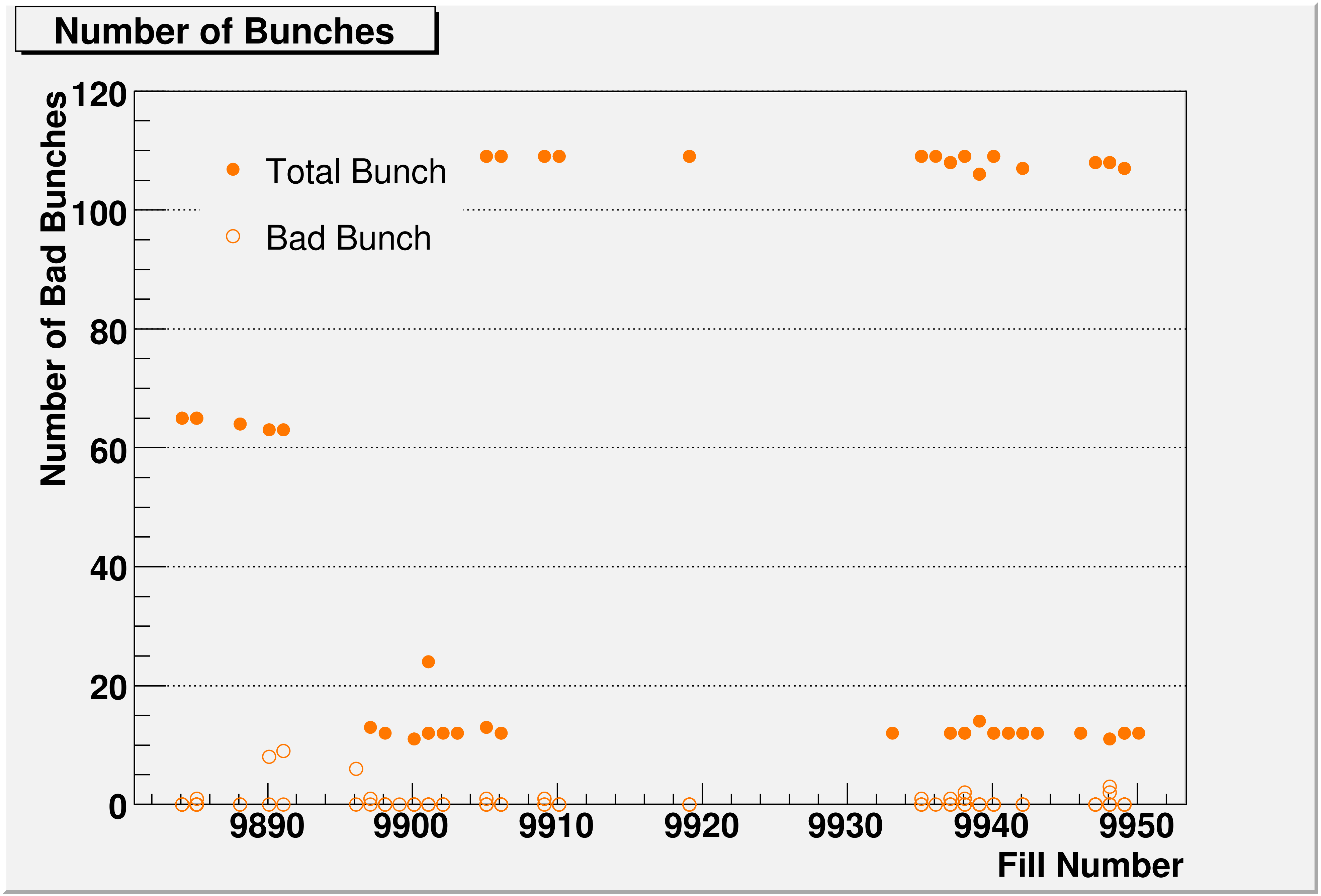
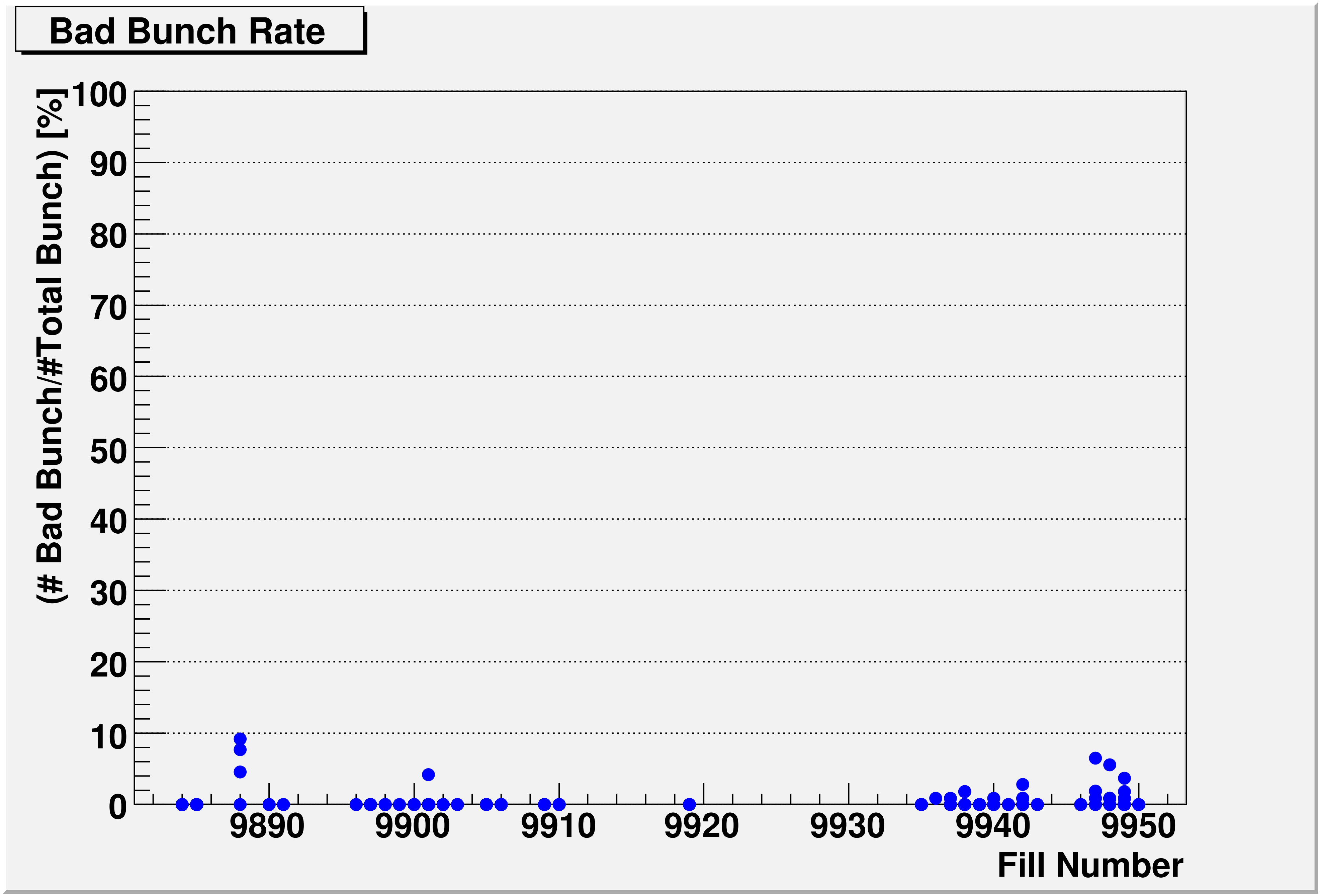
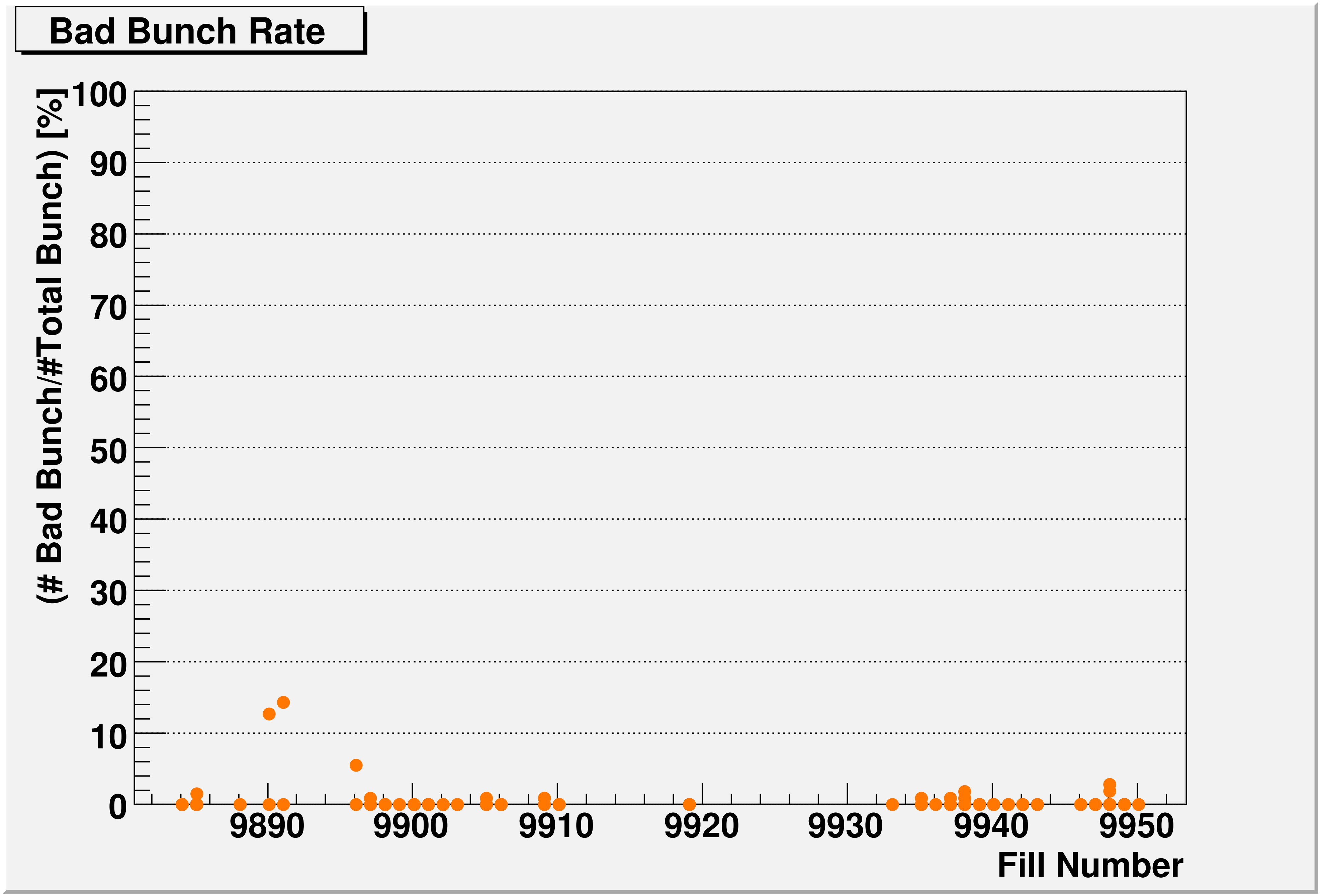


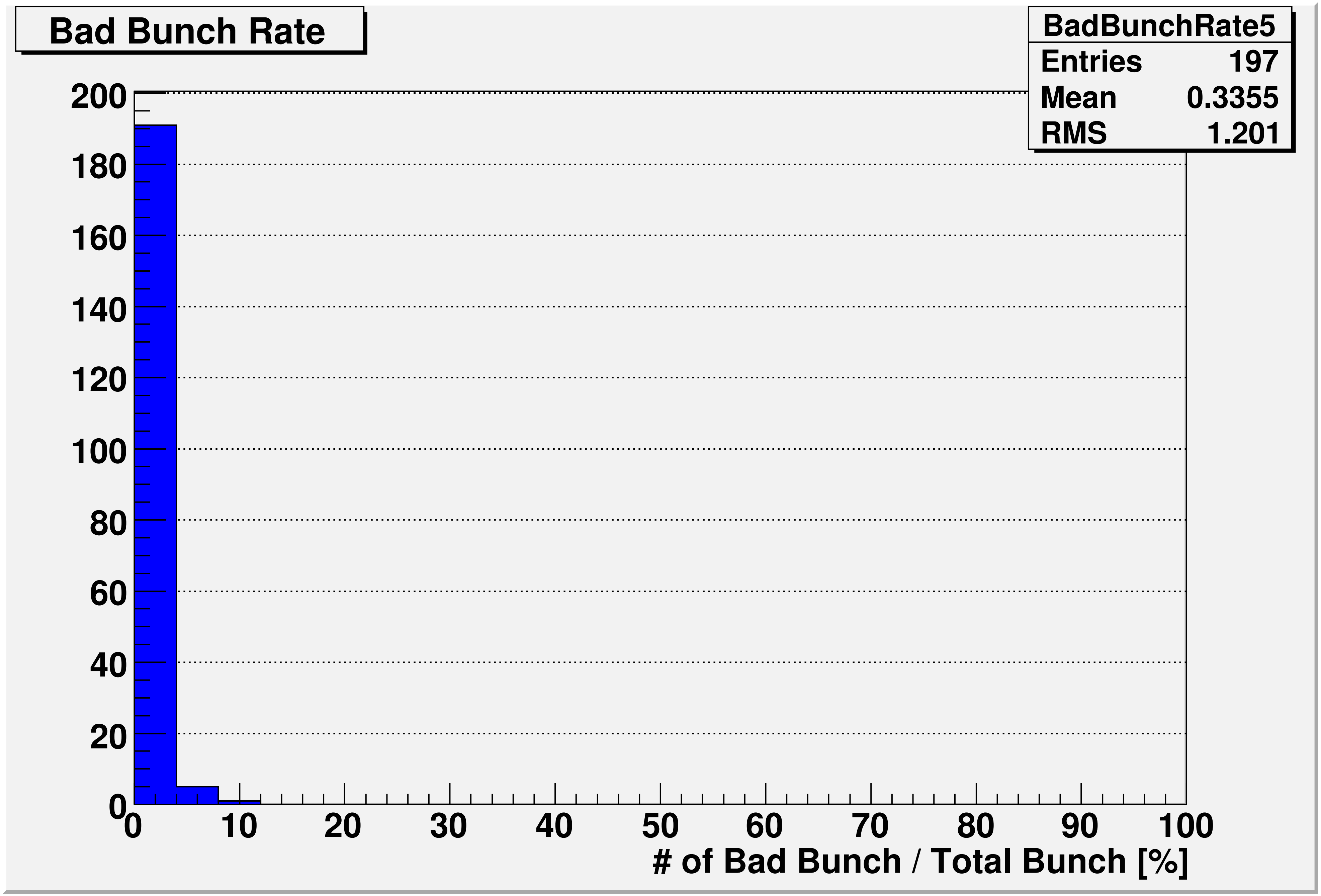
Number of Bunches
Number of Bad Bunches
Total Bunch
Bad Bunch
0
20
40
60
80
100
120
9890
9900
9910
9920
9930
9940
9950
Fill Number


Number of Bunches
Number of Bad Bunches
Total Bunch
Bad Bunch
0
20
40
60
80
100
120
9890
9900
9910
9920
9930
9940
9950
Fill Number

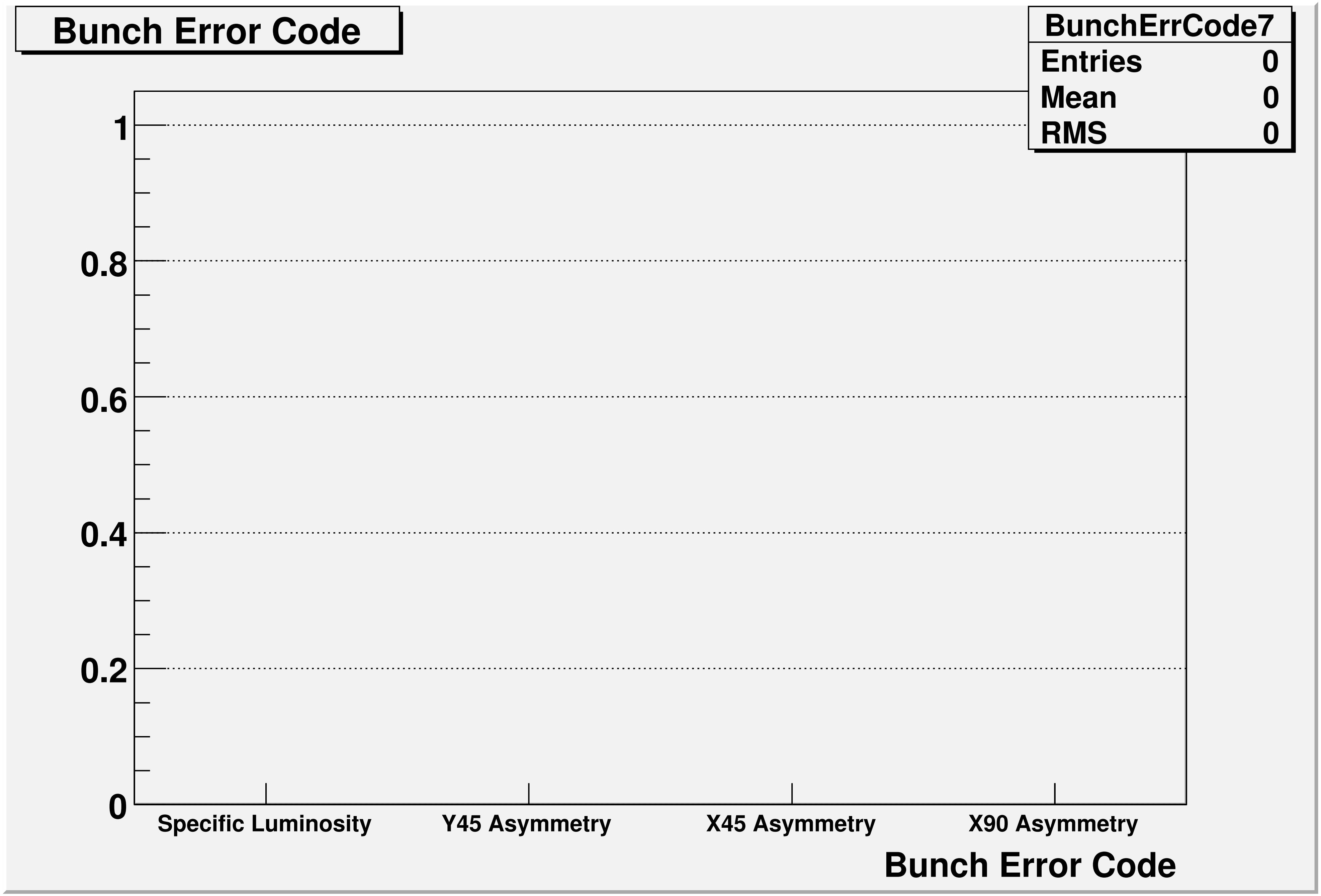


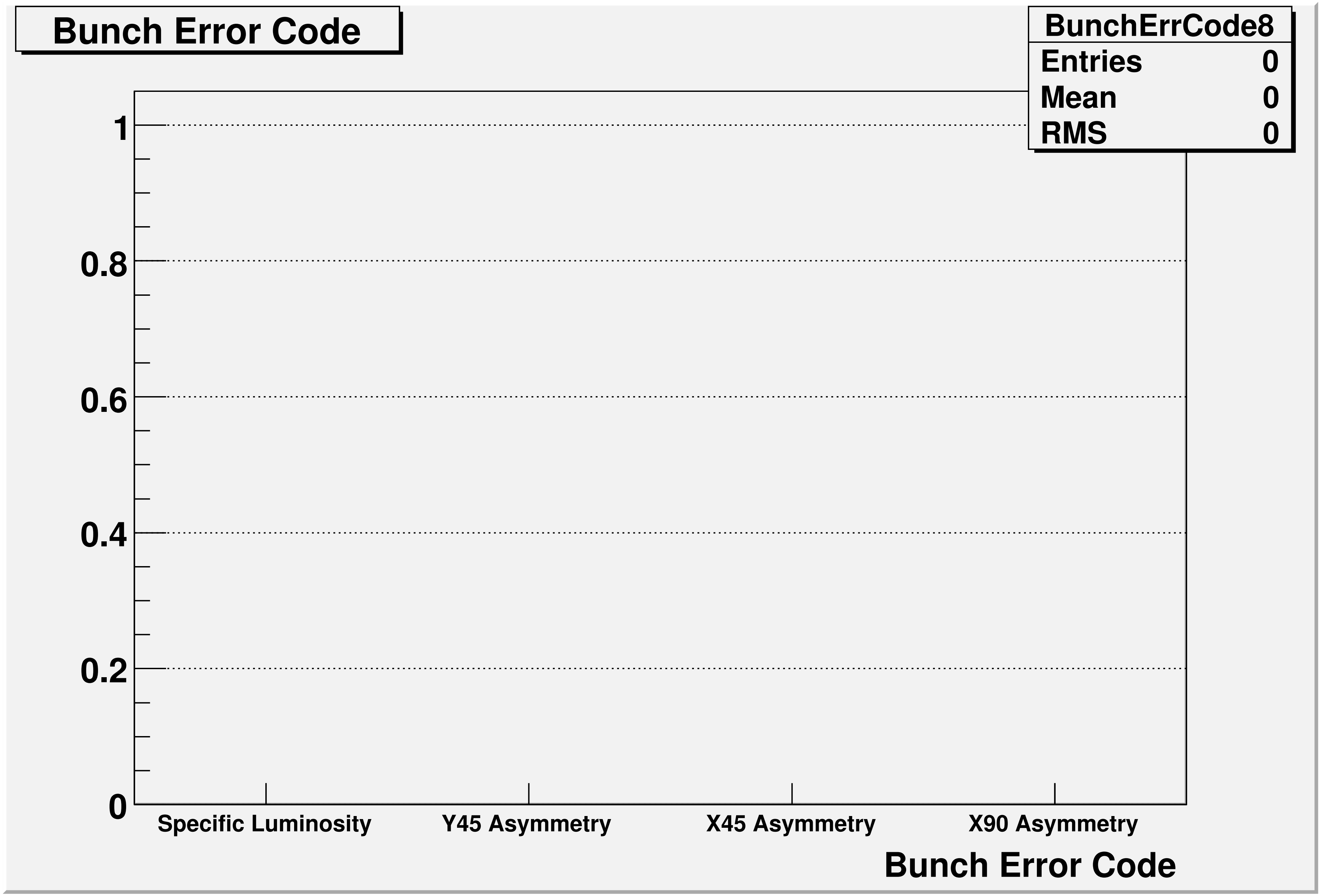
Bad Bunch Rate
(# Bad Bunch/#Total Bunch) [%]
100
90
80
70
60
50
40
30
20
10
0
9890
9900
9910
9920
9930
9940
9950
Fill Number

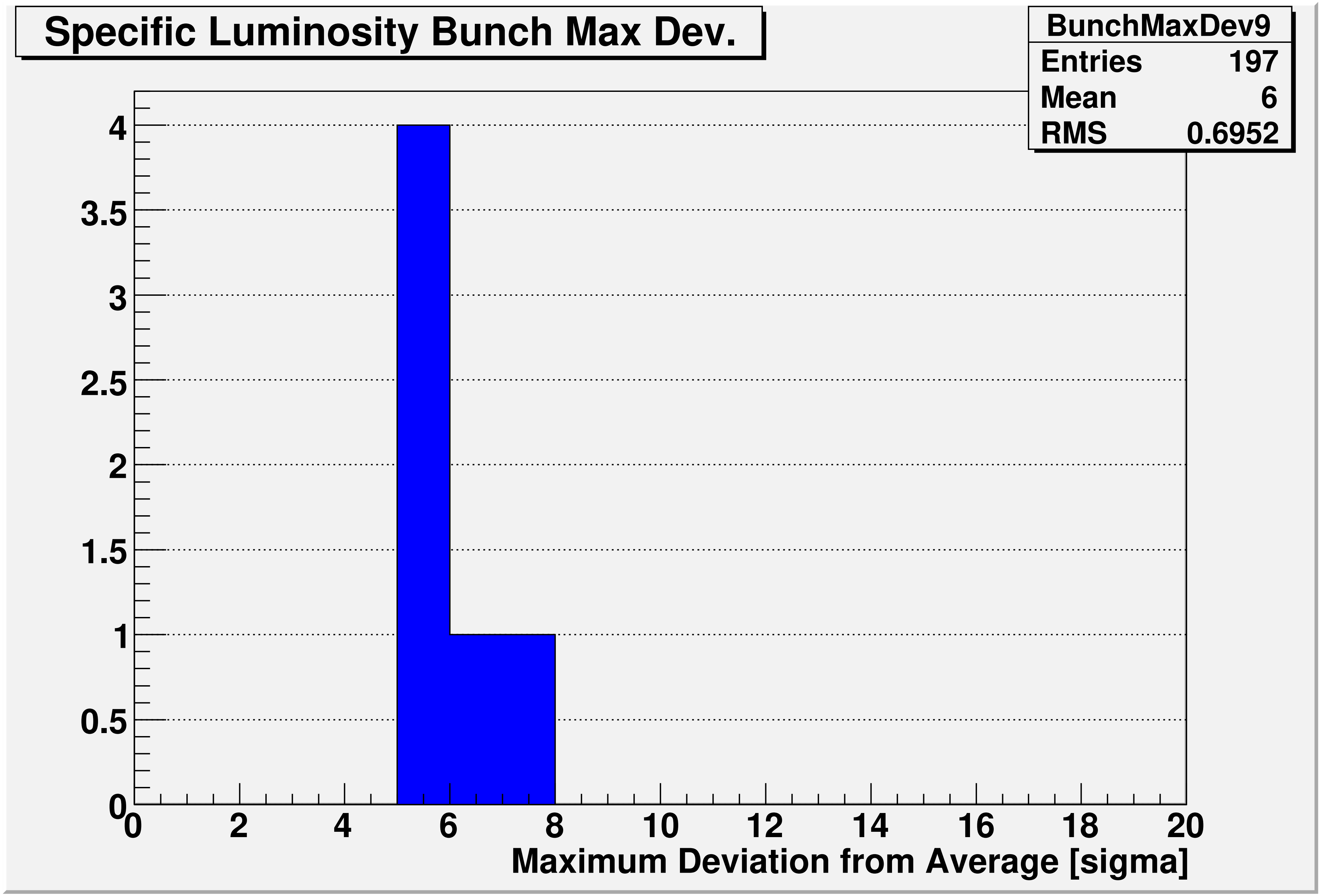

Bad Bunch Rate
(# Bad Bunch/#Total Bunch) [%]
0
10
20
30
40
50
60
70
80
90
100
9890
9900
9910
9920
9930
9940
9950
Fill Number

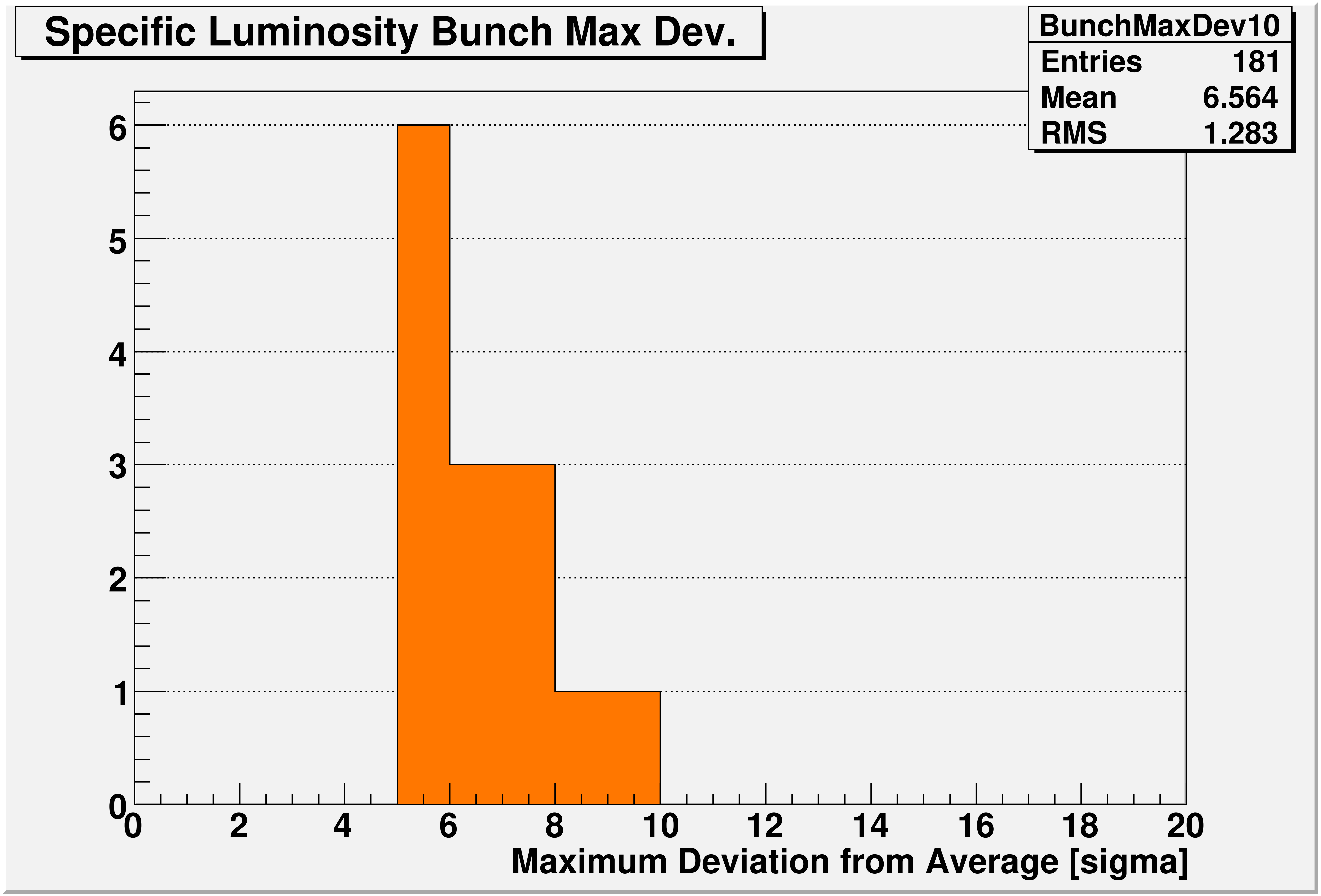

Bad Bunch Rate
BadBunchRate5
Entries 197
Mean 0.3355
RMS 1.201
200
180
160
140
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
100
# of Bad Bunch / Total Bunch [%]

Bad Bunch Rate
BadBunchRate6
Entries 181
Mean 0.2586
RMS 1.499
0
20
40
60
80
100
120
140
160
180
0
10
20
30
40
50
60
70
80
90
100
# of Bad Bunch / Total Bunch [%]

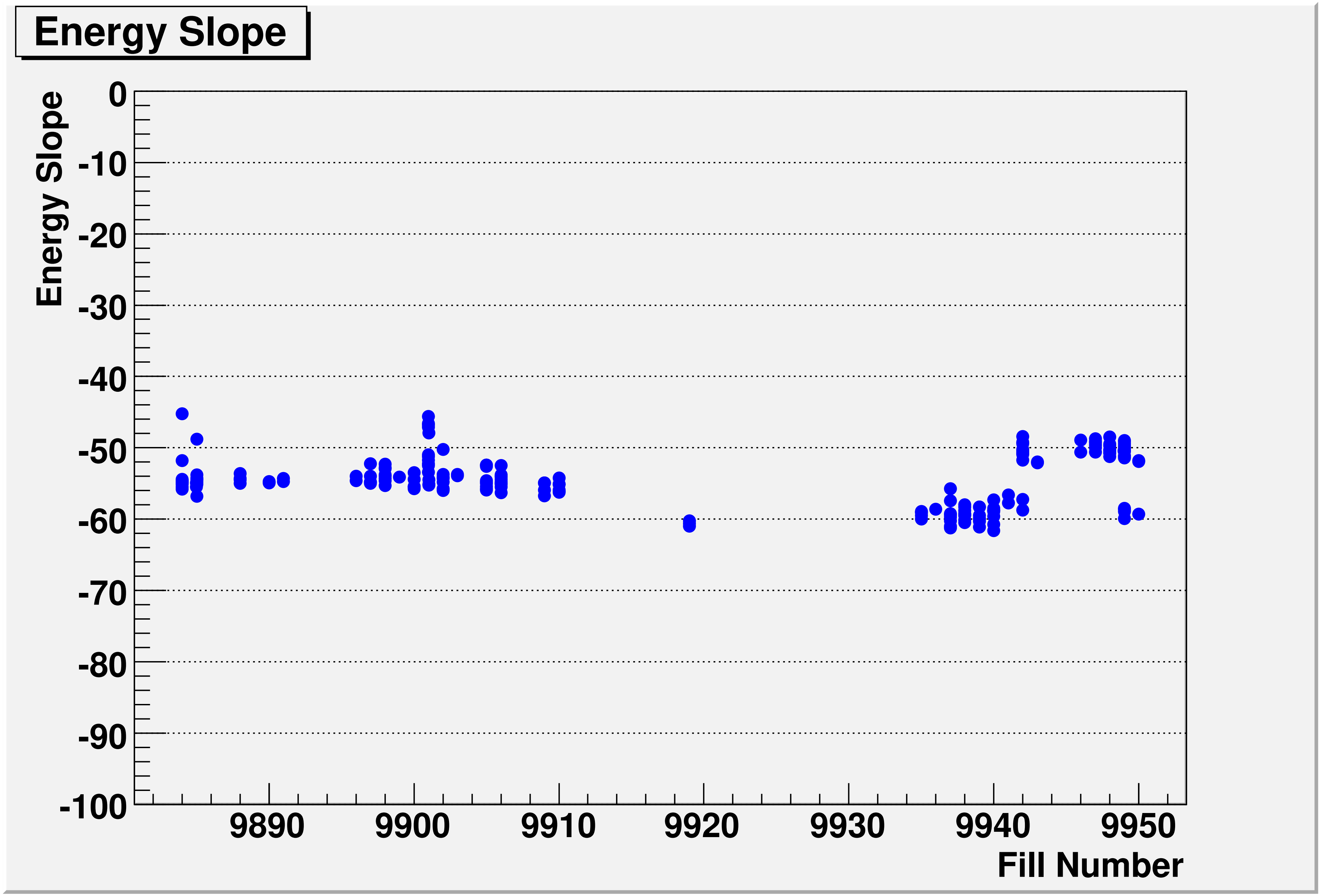

Bunch Error Code
BunchErrCode7
Entries 0
Mean 0
RMS 0
1
0.8
0.6
0.4
0.2
0
Specific Luminosity
Y45 Asymmetry
X45 Asymmetry
X90 Asymmetry
Bunch Error Code


Bunch Error Code
BunchErrCode8
Entries 0
Mean 0
RMS 0
1
0.8
0.6
0.4
0.2
0
Specific Luminosity
Y45 Asymmetry
X45 Asymmetry
X90 Asymmetry
Bunch Error Code

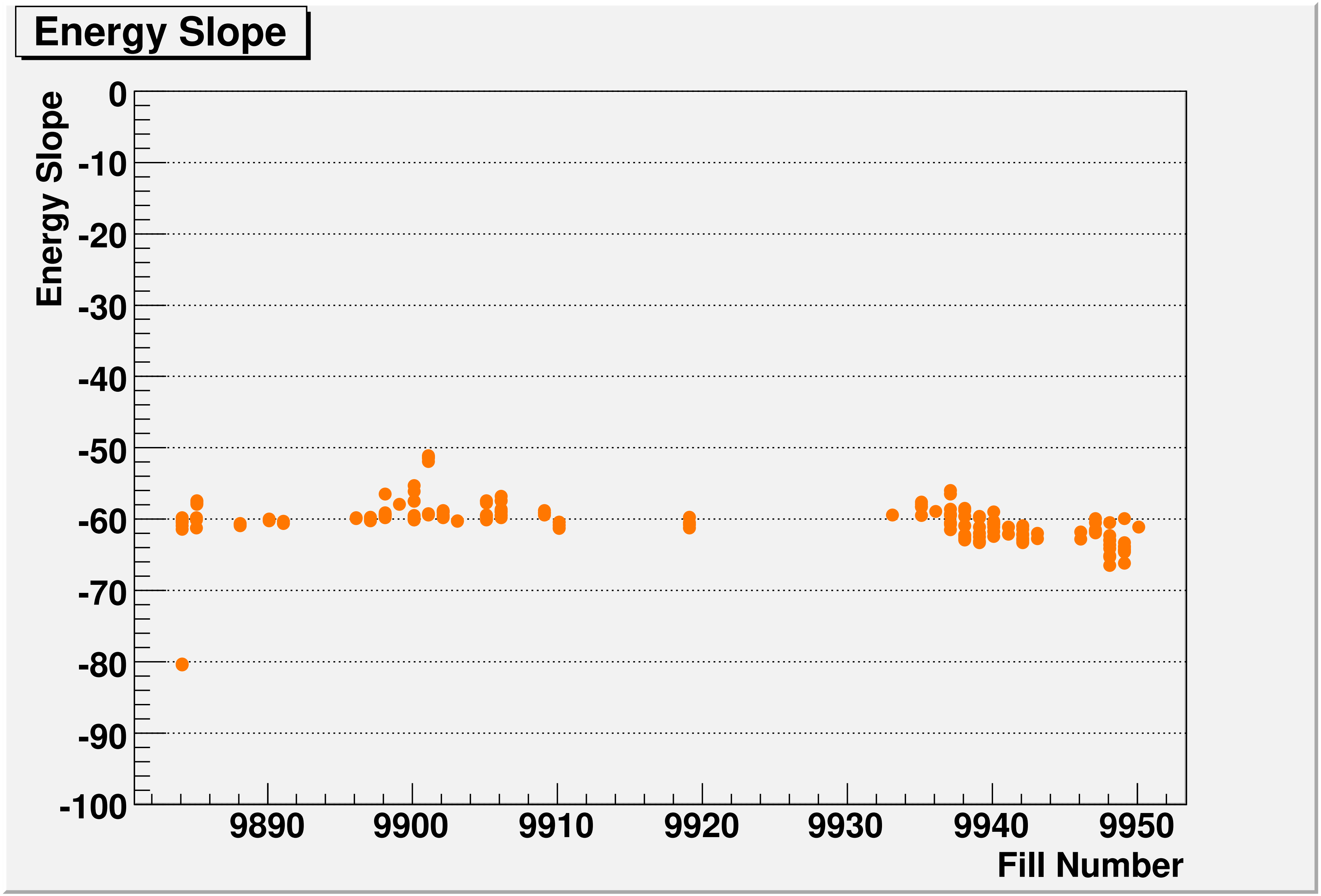

Specific Luminosity Bunch Max Dev.
BunchMaxDev9
Entries 197
Mean 6
RMS 0.6952
0
0.5
1
1.5
2
2.5
3
3.5
4
0
2
4
6
8
10
12
14
16
18
20
Maximum Deviation from Average [sigma]



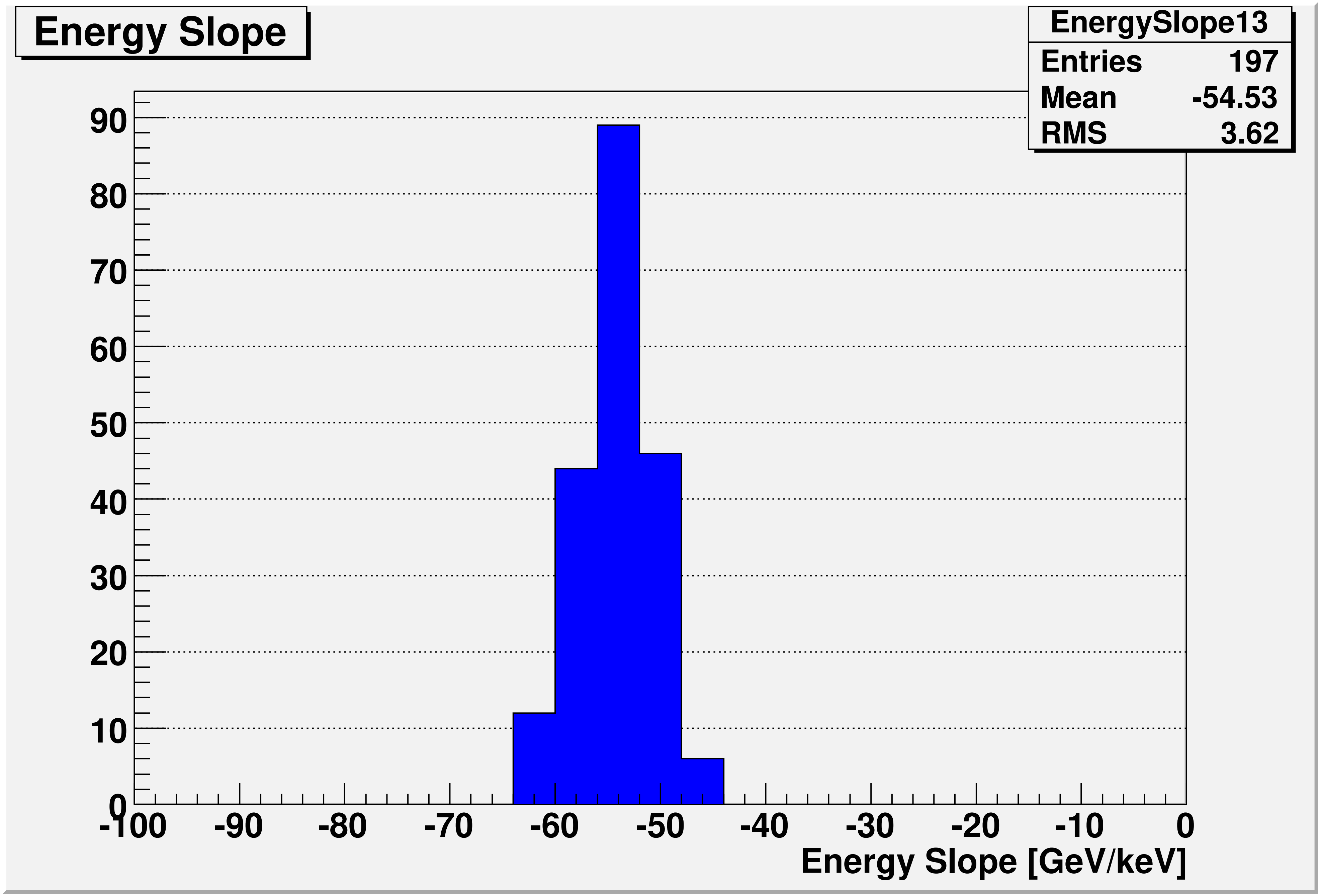
Specific Luminosity Bunch Max Dev.
BunchMaxDev10
Entries 181
Mean 6.564
RMS 1.283
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16
18
20
Maximum Deviation from Average [sigma]



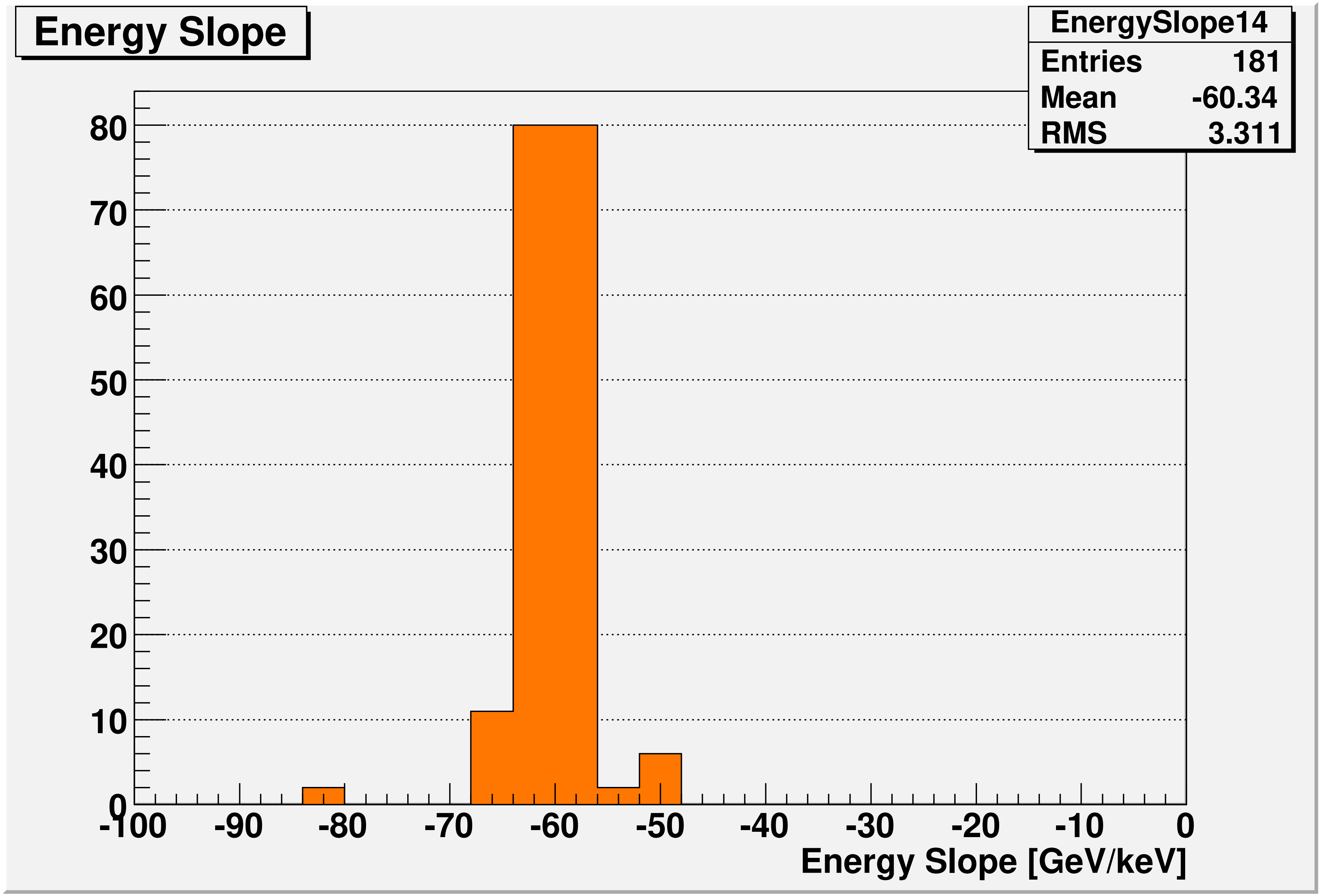
Energy Slope
Energy Slope
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
9890
9900
9910
9920
9930
9940
9950
Fill Number

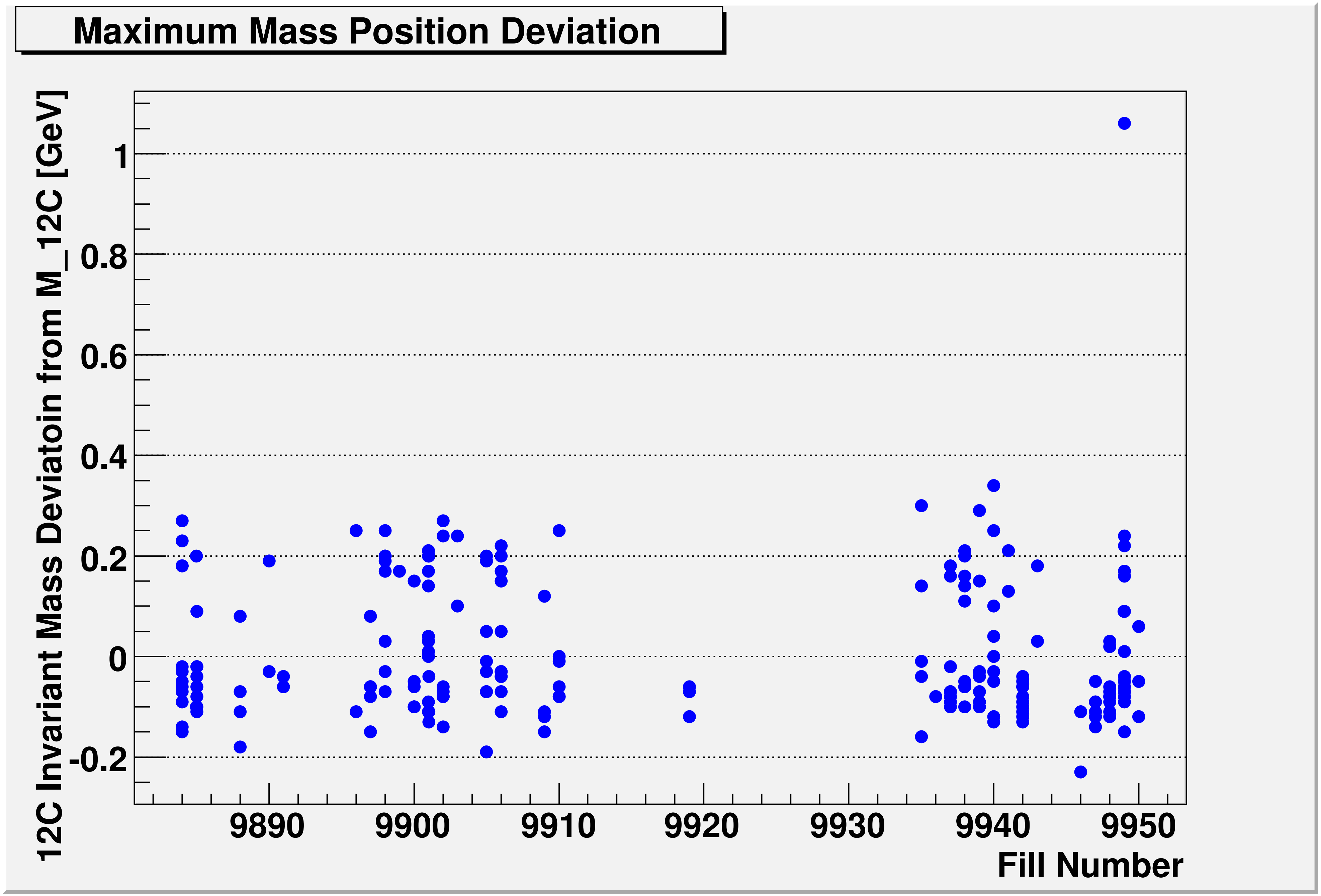


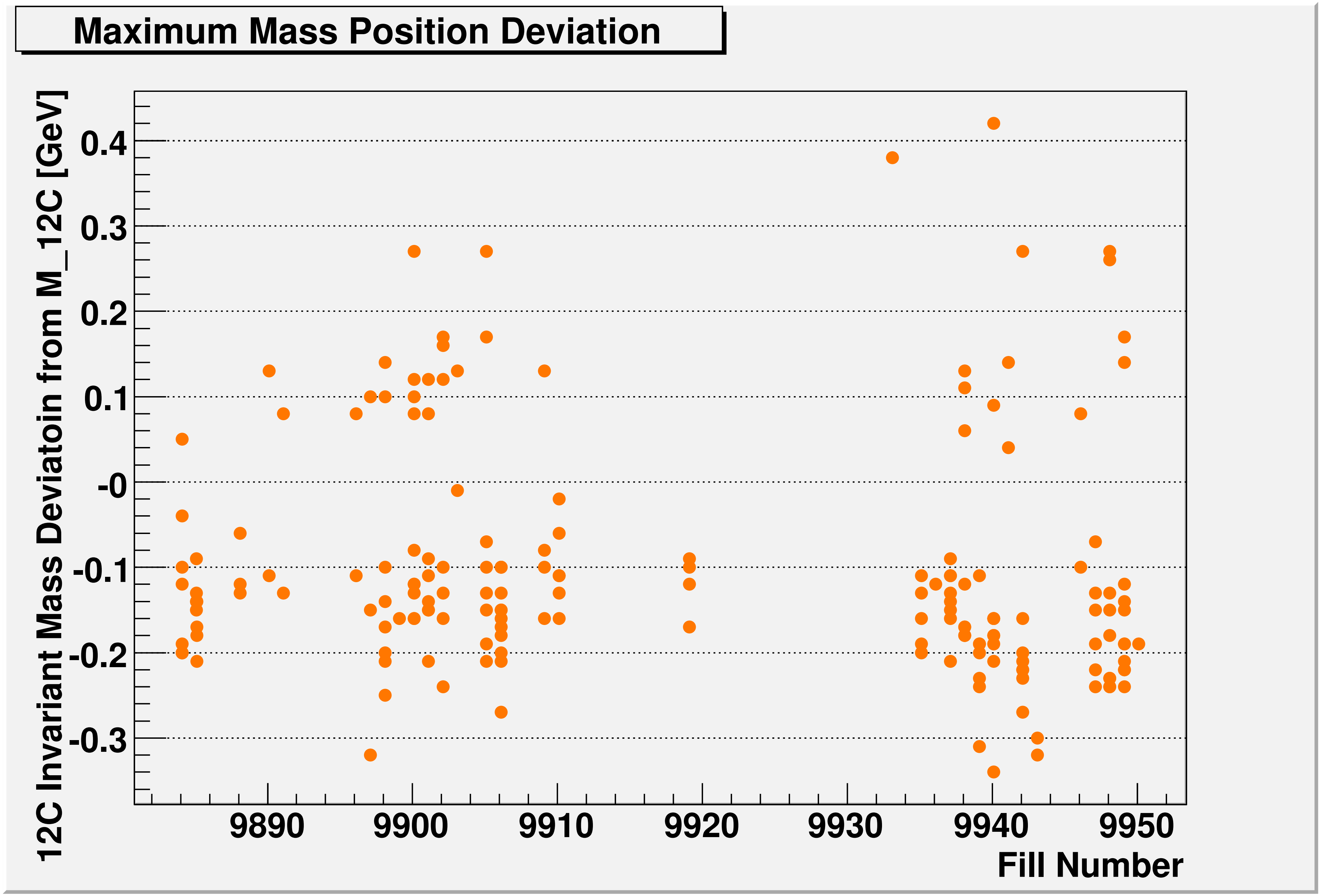
Energy Slope
Energy Slope
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
9890
9900
9910
9920
9930
9940
9950
Fill Number



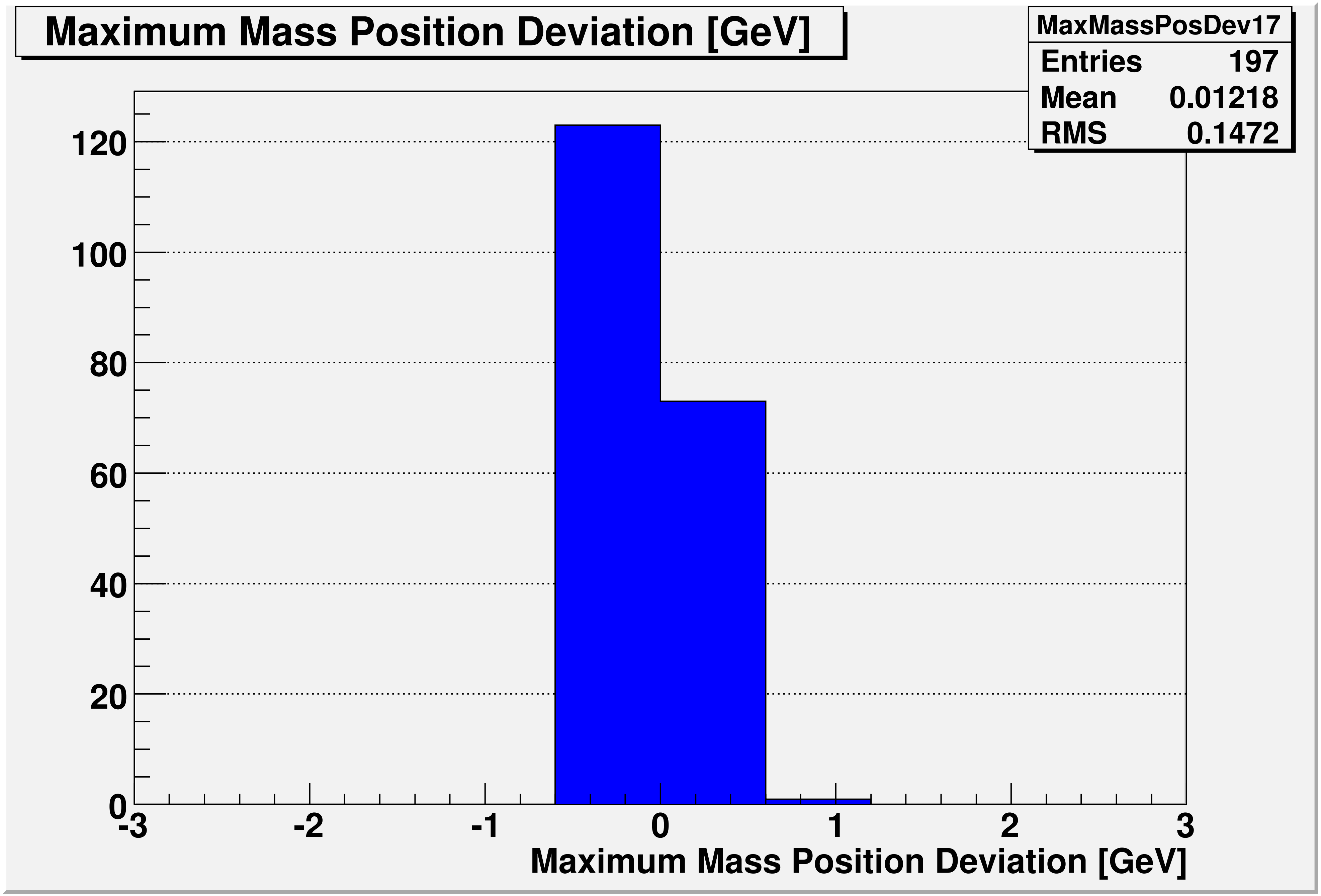
Energy Slope
EnergySlope13
Entries 197
Mean -54.53
RMS 3.62
90
80
70
60
50
40
30
20
10
0
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
Energy Slope [GeV/keV]

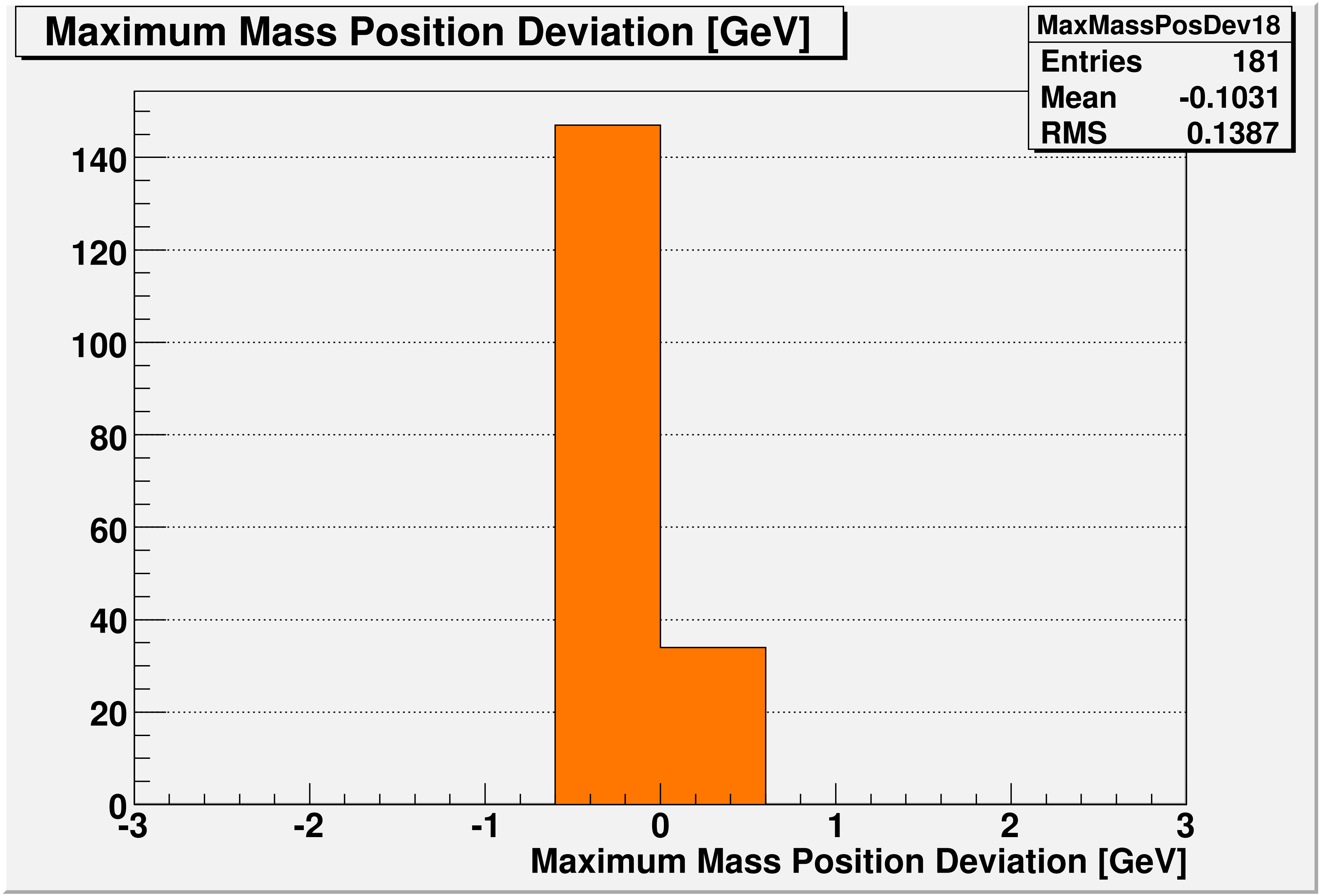

Energy Slope
EnergySlope14
Entries 181
Mean -60.34
RMS 3.311
0
10
20
30
40
50
60
70
80
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
Energy Slope [GeV/keV]

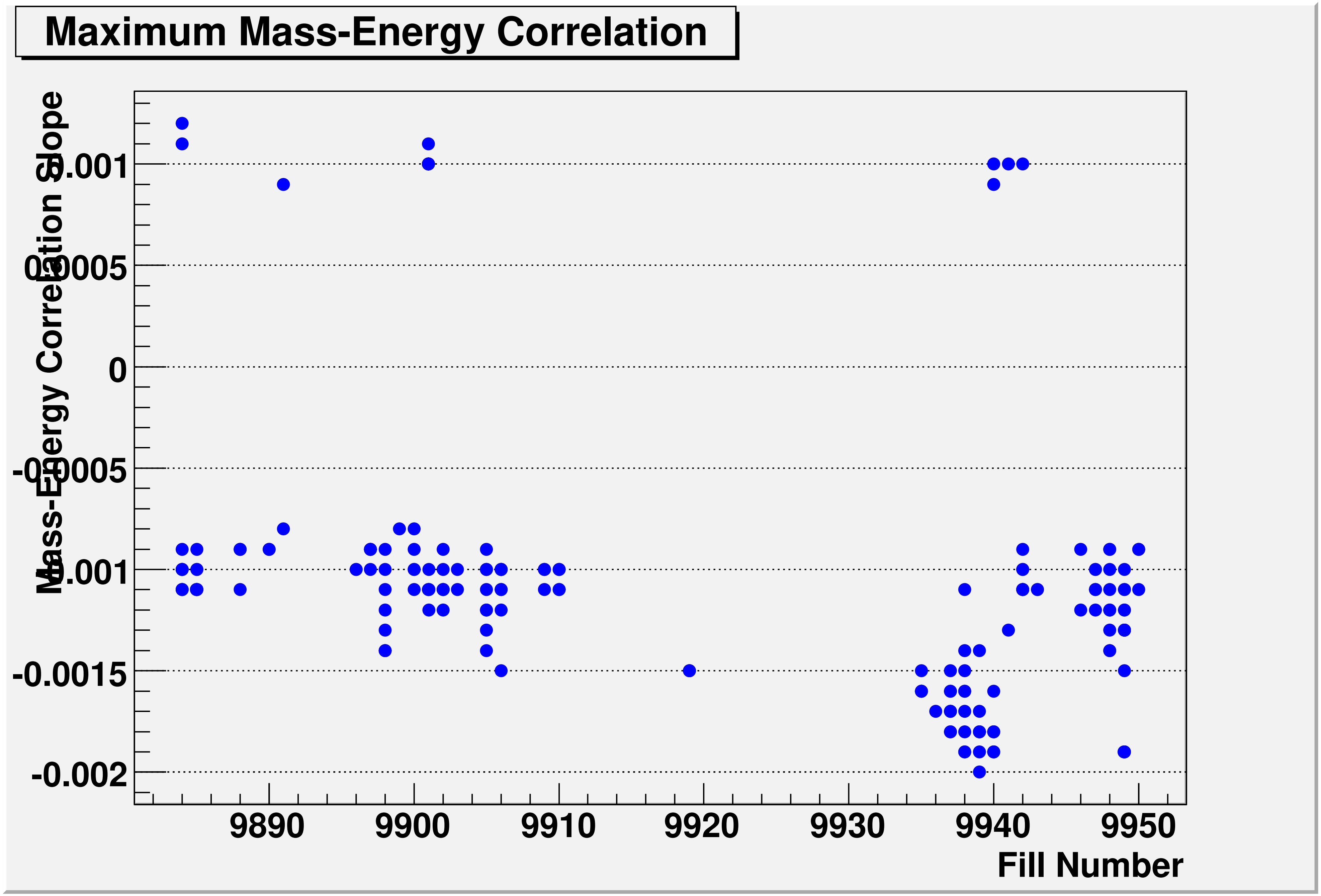

Maximum Mass Position Deviation
12C Invariant Mass Deviatoin from M_12C [GeV]
Fill Number
1
0.8
0.6
0.4
0.2
0
-0.2
9890
9900
9910
9920
9930
9940
9950



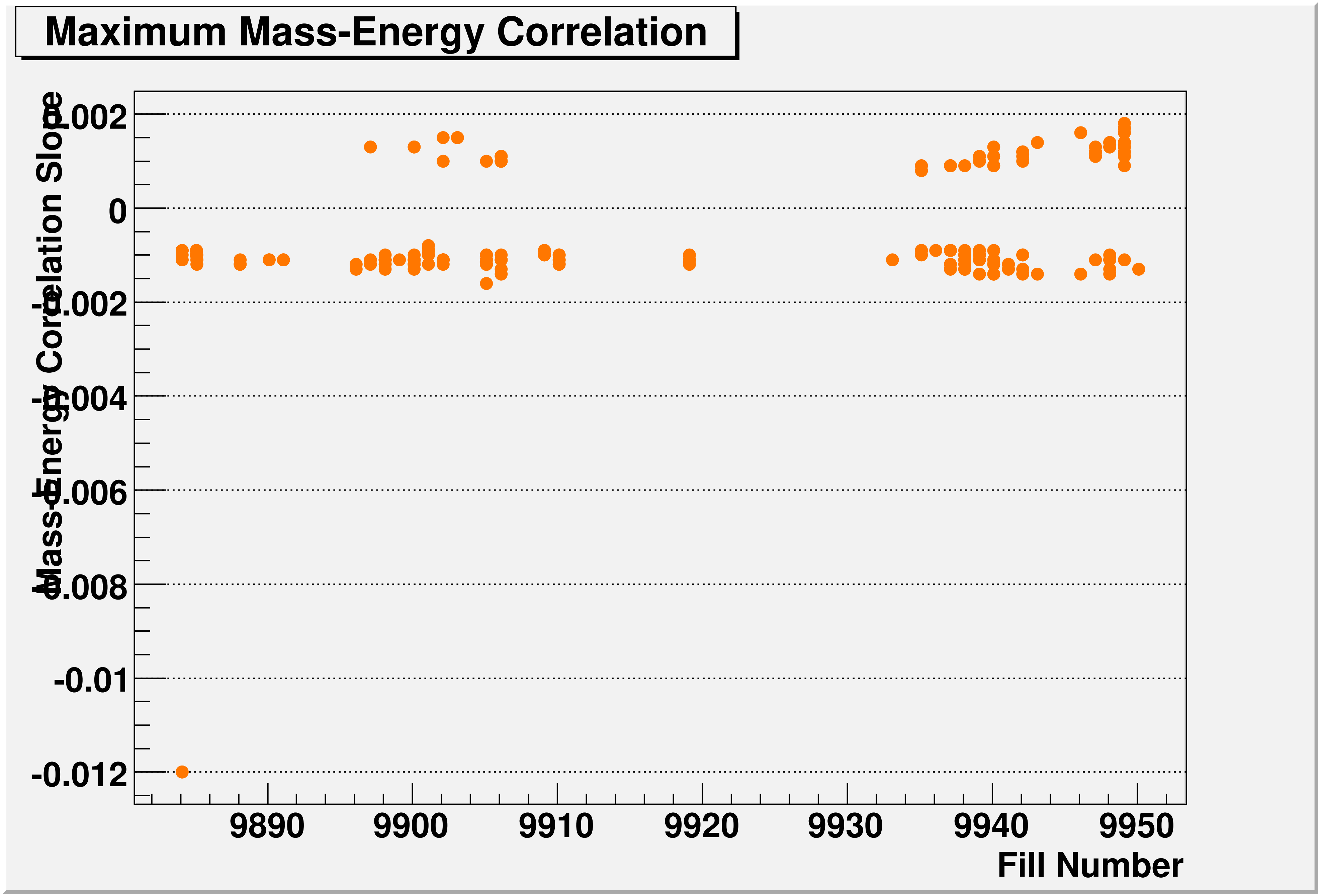
Maximum Mass Position Deviation
12C Invariant Mass Deviatoin from M_12C [GeV]
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
9890
9900
9910
9920
9930
9940
9950
Fill Number

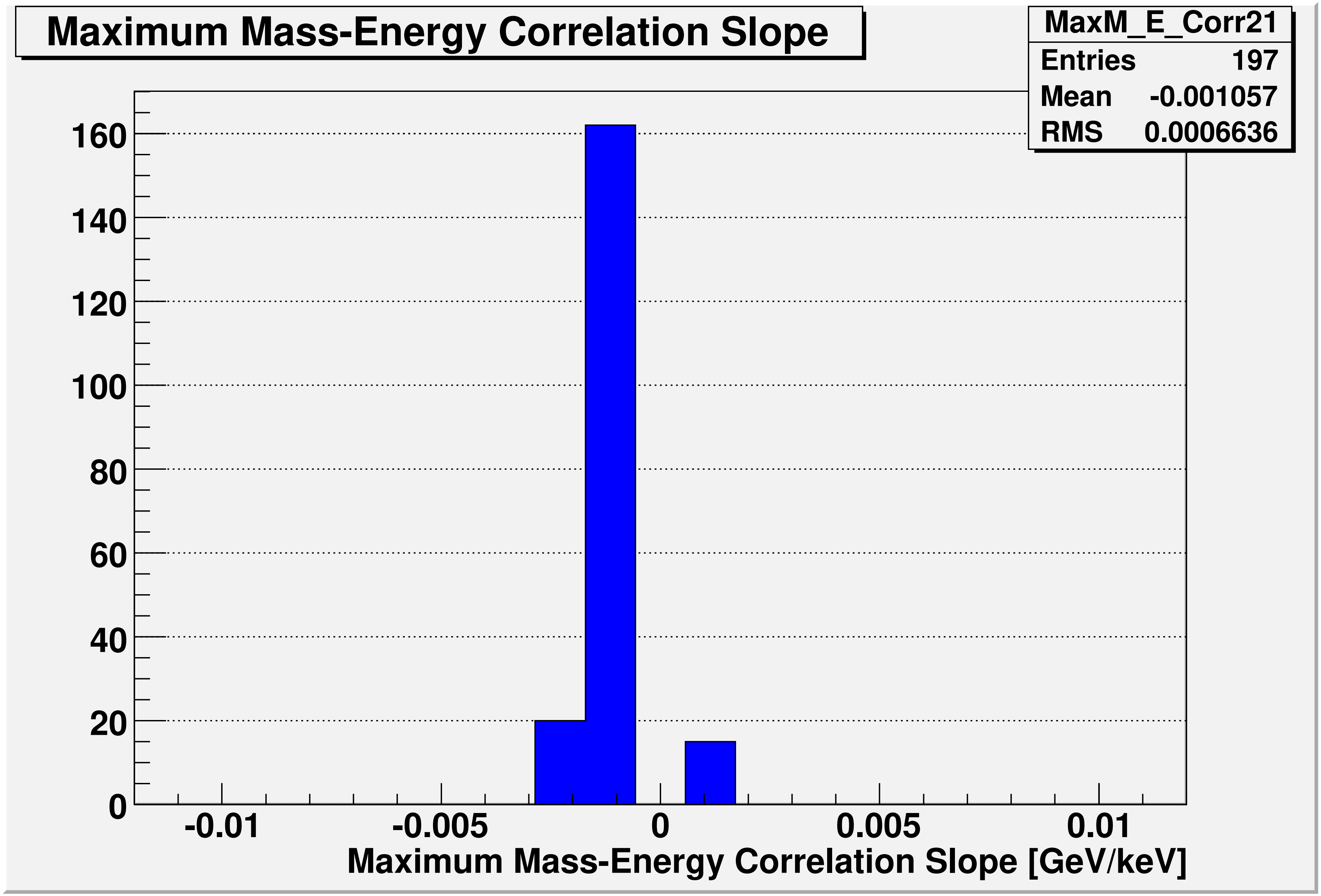

Maximum Mass Position Deviation [GeV]
MaxMassPosDev17
Entries 197
Mean 0.01218
RMS 0.1472
120
100
80
60
40
20
0
-3
-2
-1
0
1
2
3
Maximum Mass Position Deviation [GeV]

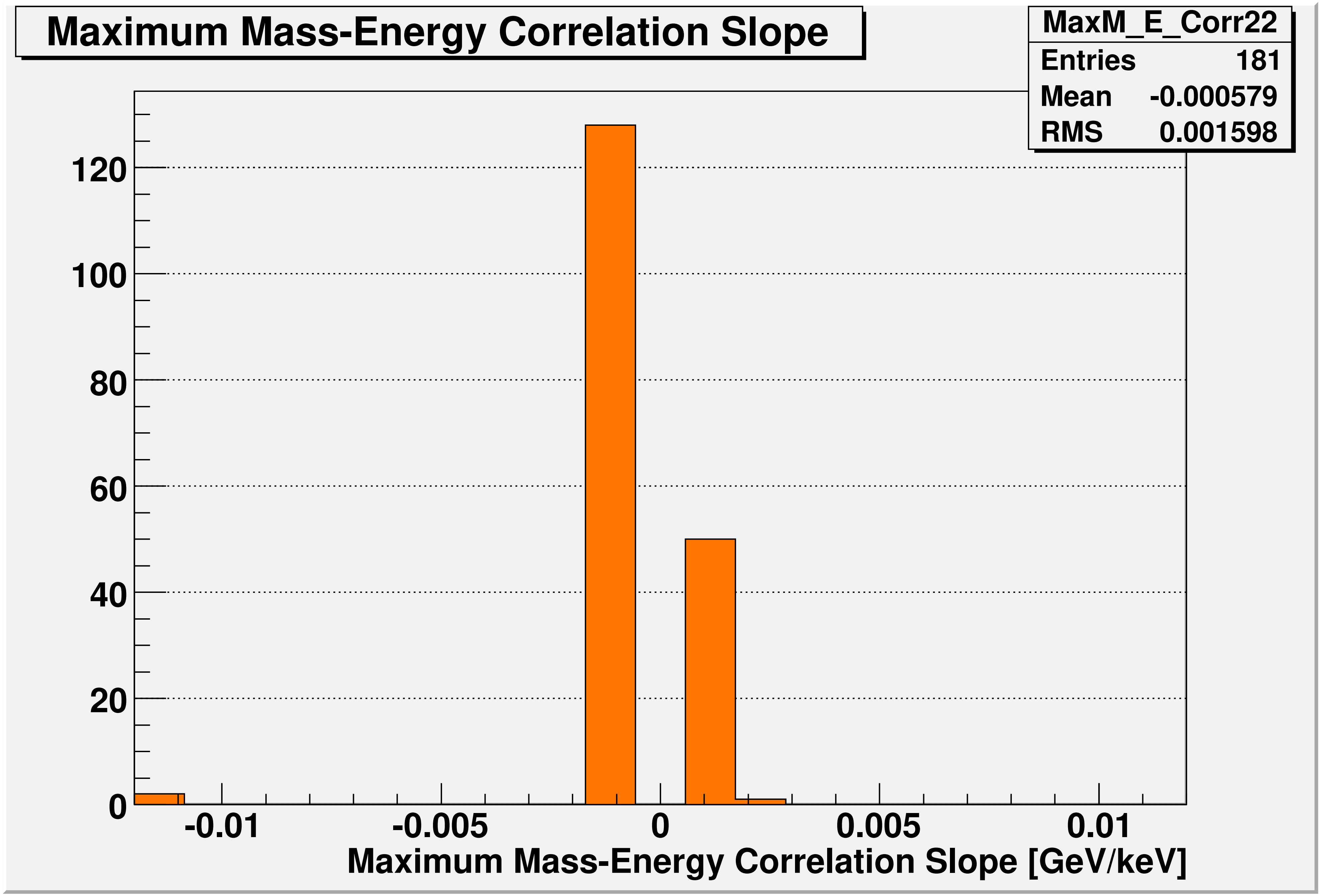

Maximum Mass Position Deviation [GeV]
MaxMassPosDev18
Entries 181
Mean -0.1031
RMS 0.1387
140
120
100
80
60
40
20
0
-3
-2
-1
0
1
2
3
Maximum Mass Position Deviation [GeV]



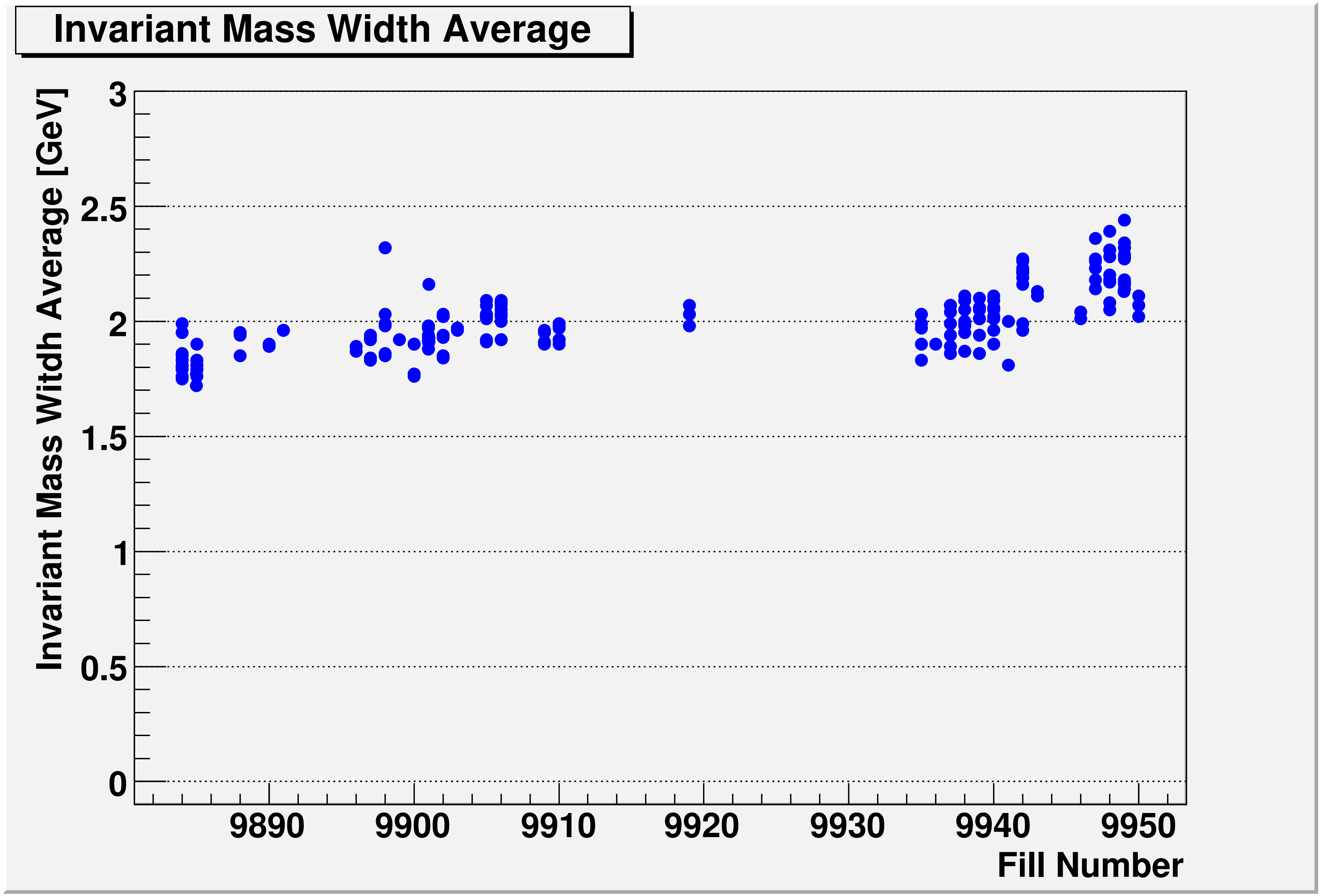
Maximum Mass-Energy Correlation
Mass-Energy Correlation Slope
0.001
0.0005
0
-0.0005
-0.001
-0.0015
-0.002
9890
9900
9910
9920
9930
9940
9950
Fill Number


Maximum Mass-Energy Correlation
Mass-Energy Correlation Slope
0.002
0
-0.002
-0.004
-0.006
-0.008
-0.01
-0.012
9890
9900
9910
9920
9930
9940
9950
Fill Number

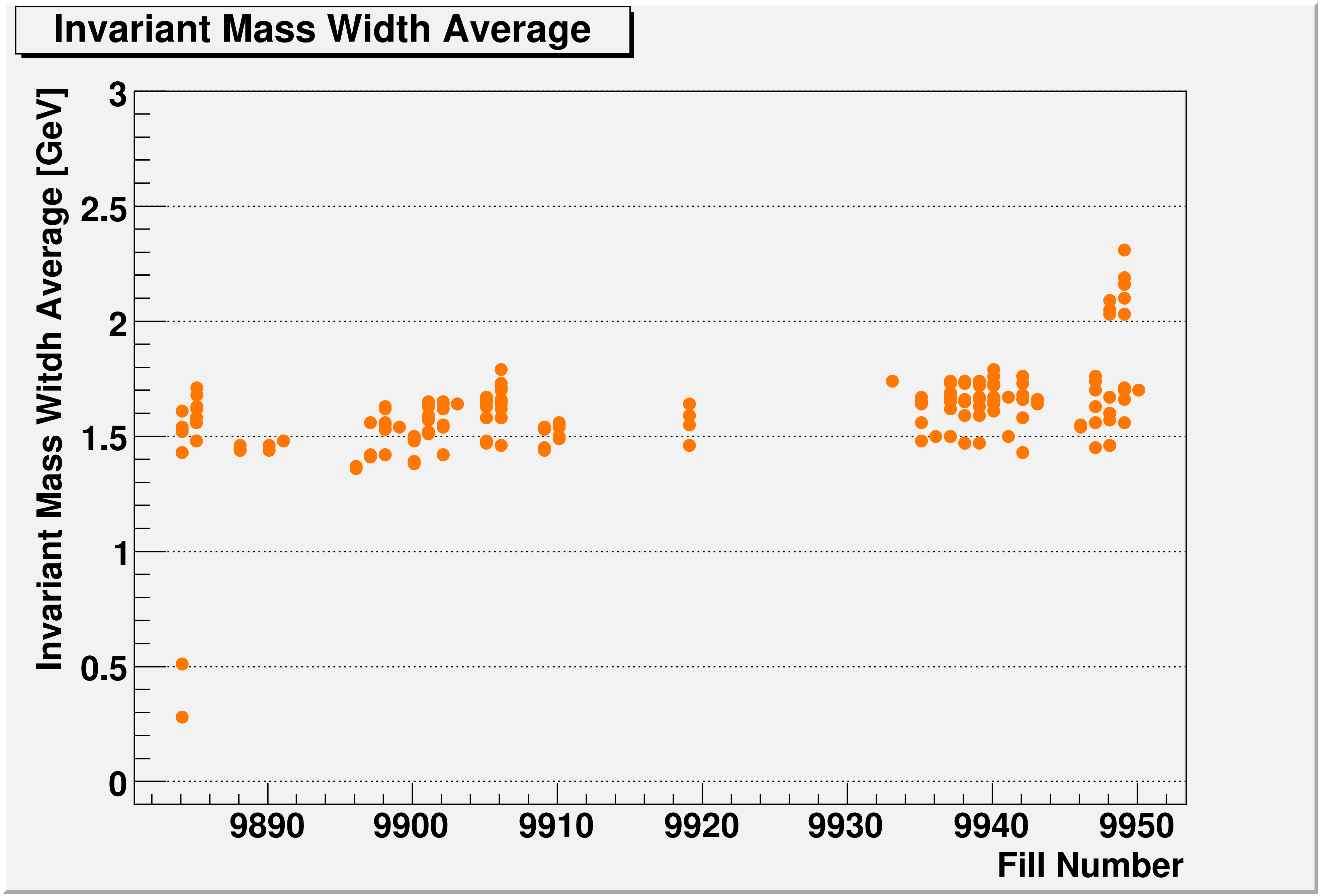

Maximum Mass-Energy Correlation Slope
MaxM_E_Corr21
Entries 197
Mean -0.001057
RMS 0.0006636
0
20
40
60
80
100
120
140
160
-0.01
-0.005
0
0.005
0.01
Maximum Mass-Energy Correlation Slope [GeV/keV]

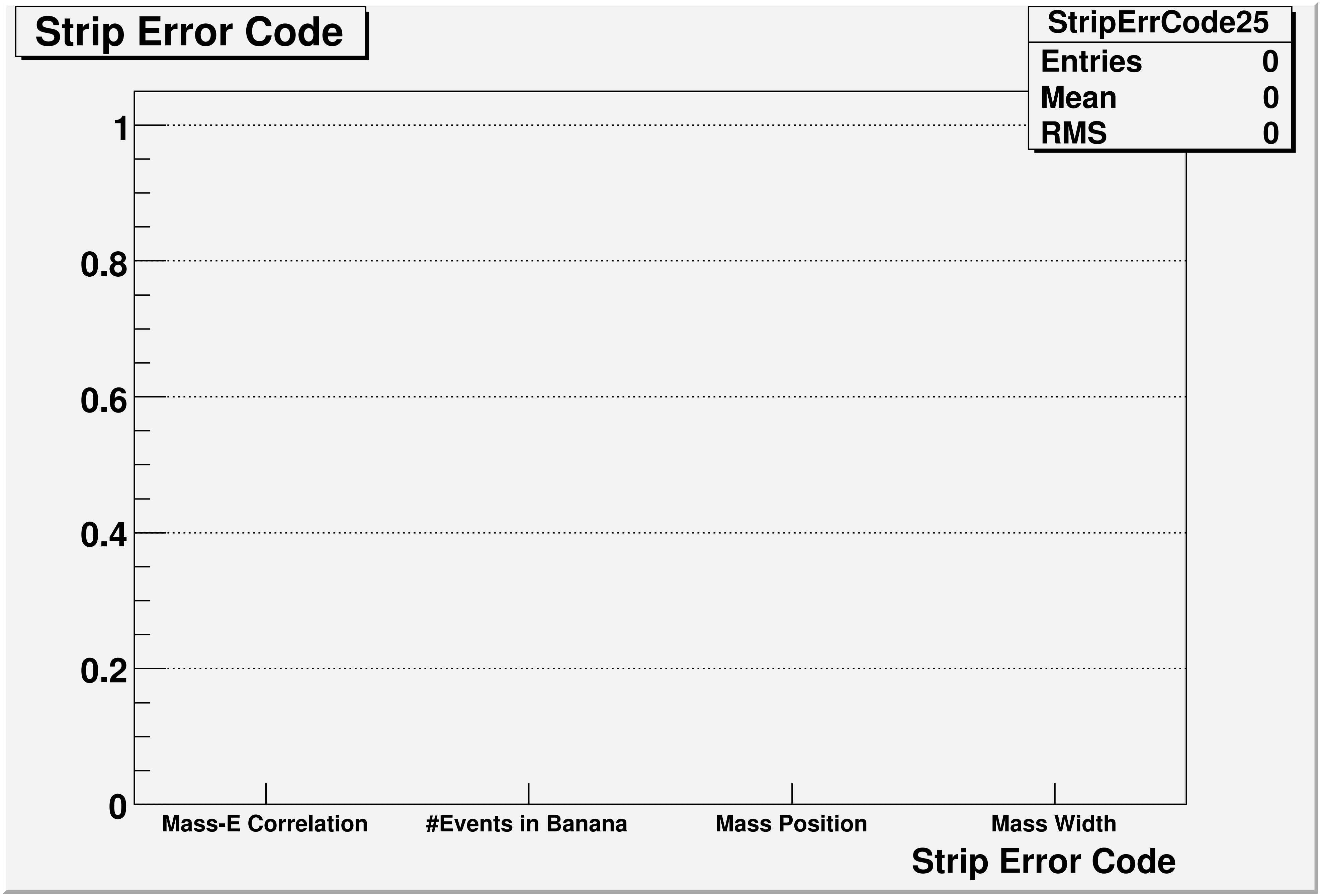


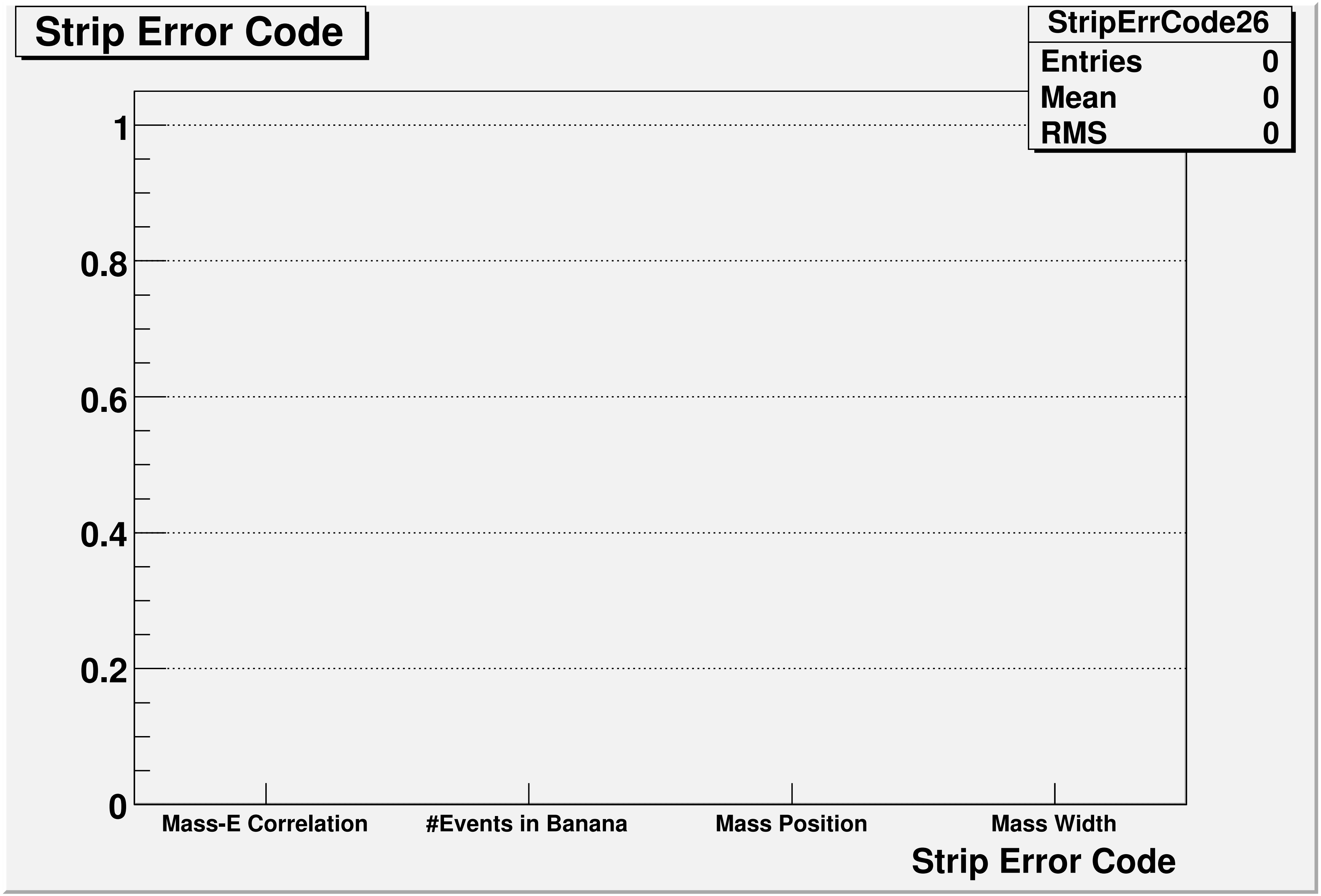
Maximum Mass-Energy Correlation Slope
MaxM_E_Corr22
Entries 181
Mean -0.000579
RMS 0.001598
120
100
80
60
40
20
0
-0.01
-0.005
0
0.005
0.01
Maximum Mass-Energy Correlation Slope [GeV/keV]



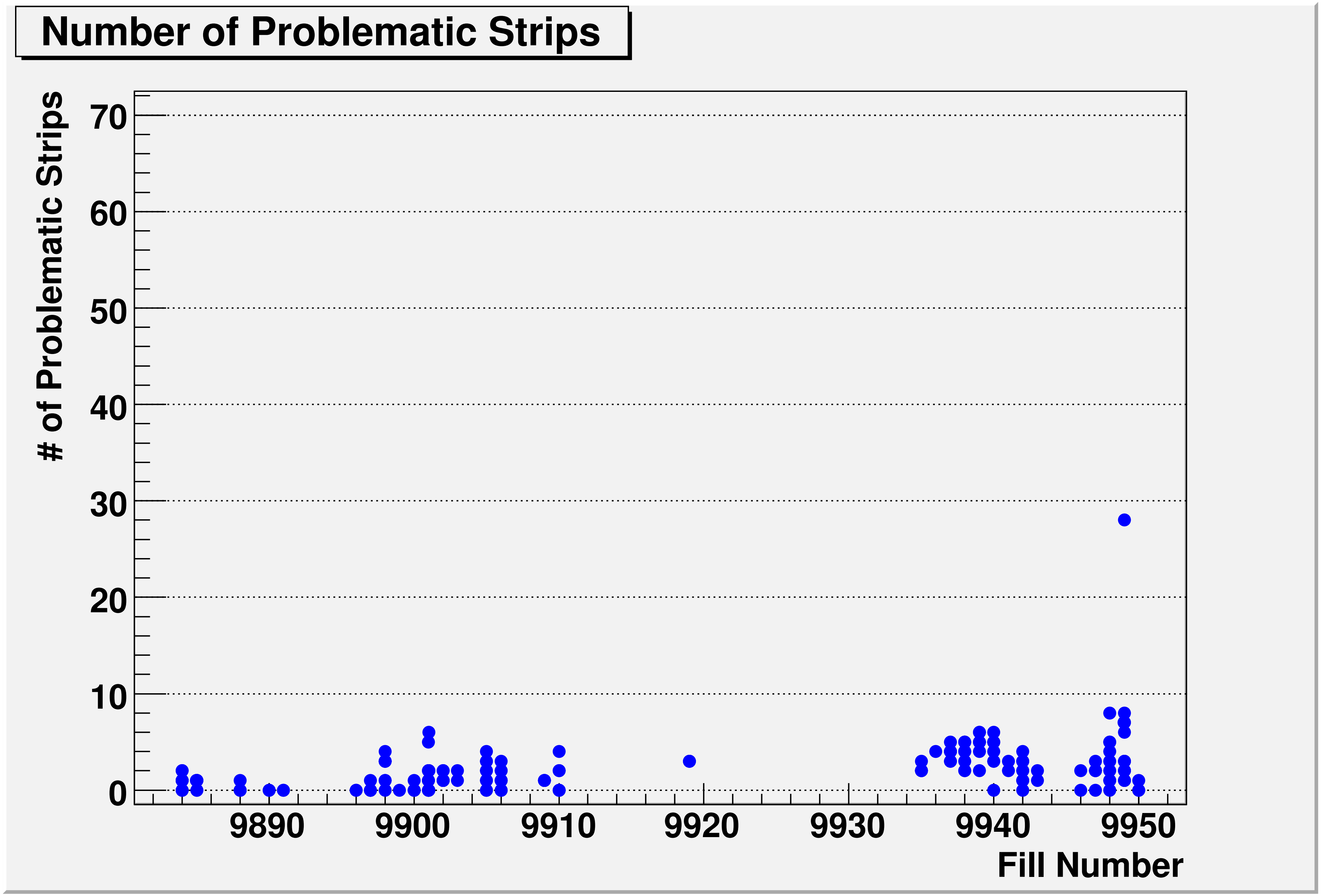
Invariant Mass Width Average
Invariant Mass Witdh Average [GeV]
3
2.5
2
1.5
1
0.5
0
9890
9900
9910
9920
9930
9940
9950
Fill Number


Invariant Mass Width Average
Invariant Mass Witdh Average [GeV]
3
2.5
2
1.5
1
0.5
0
9890
9900
9910
9920
9930
9940
9950
Fill Number

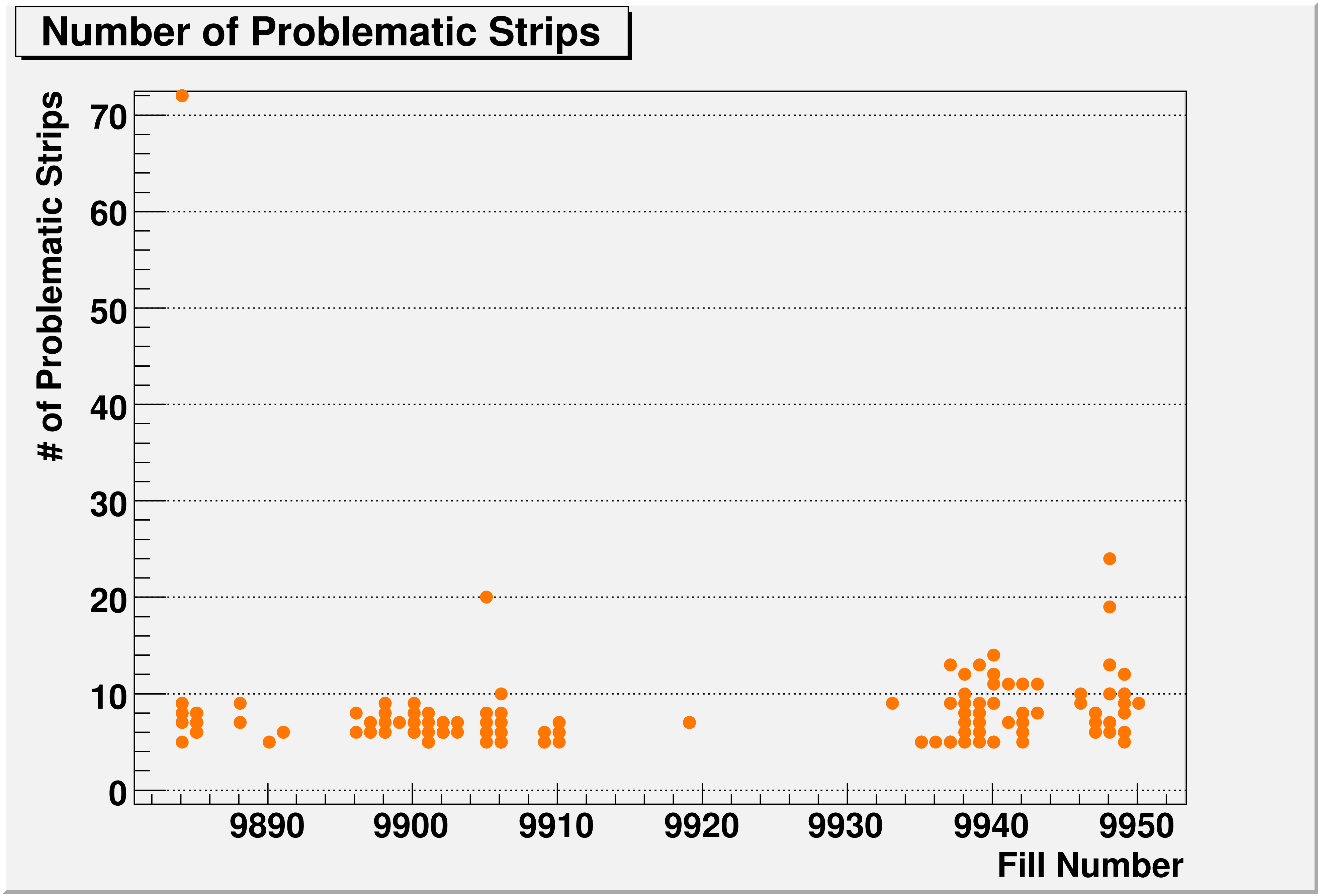

Strip Error Code
StripErrCode25
Entries 0
Mean 0
RMS 0
1
0.8
0.6
0.4
0.2
0
Mass-E Correlation
#Events in Banana
Mass Position
Mass Width
Strip Error Code

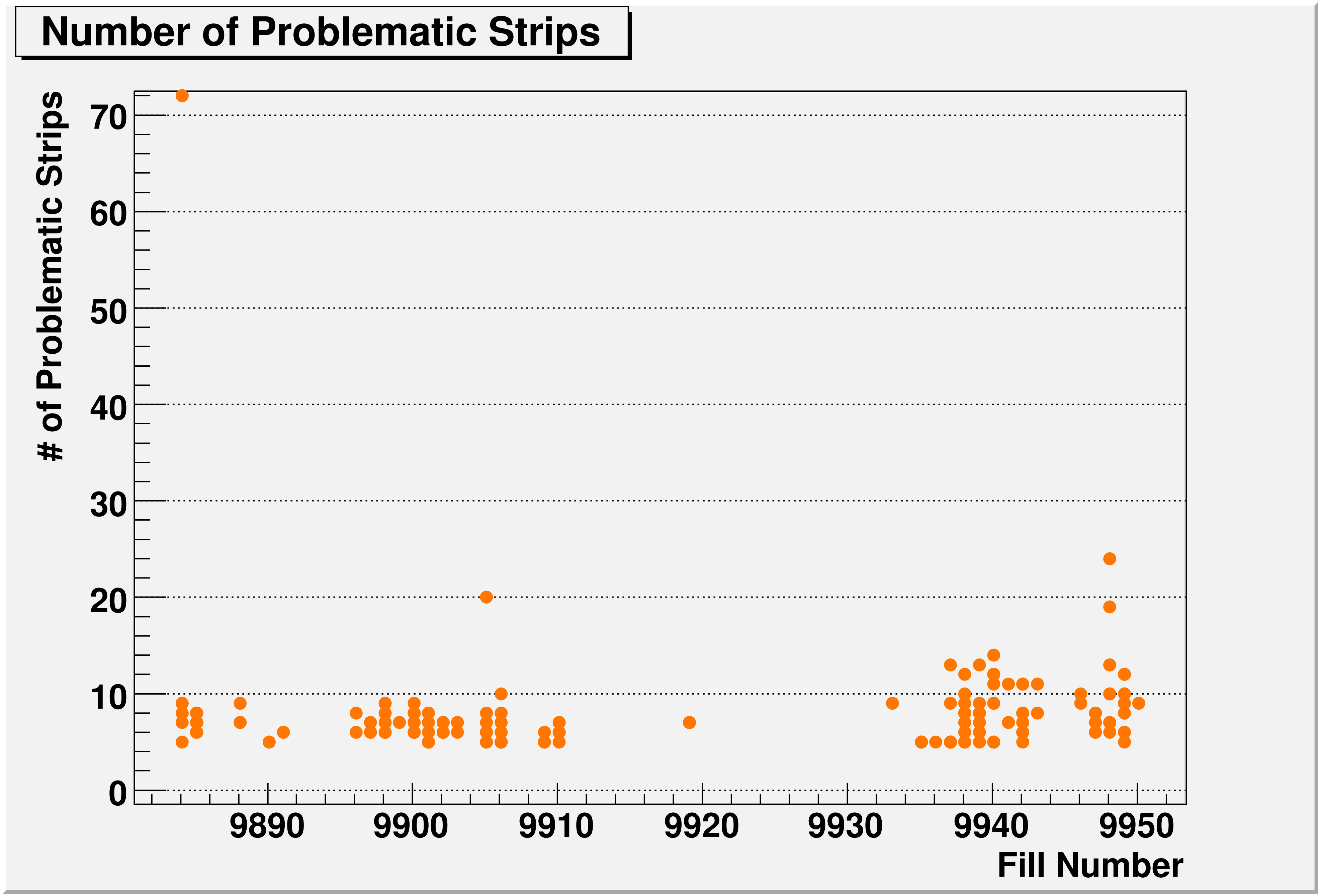


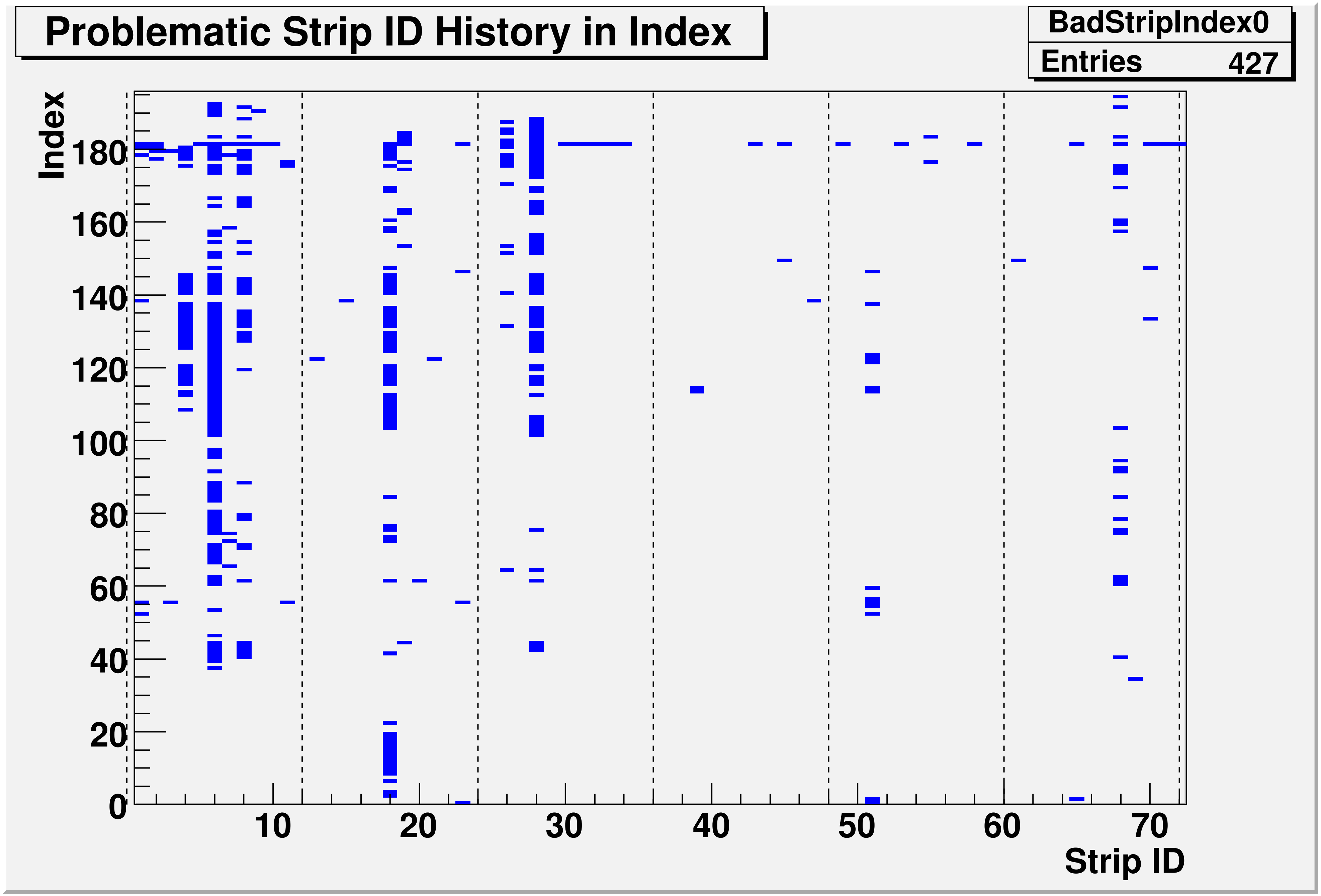
Strip Error Code
StripErrCode26
Entries 0
Mean 0
RMS 0
1
0.8
0.6
0.4
0.2
0
Mass-E Correlation
#Events in Banana
Mass Position
Mass Width
Strip Error Code



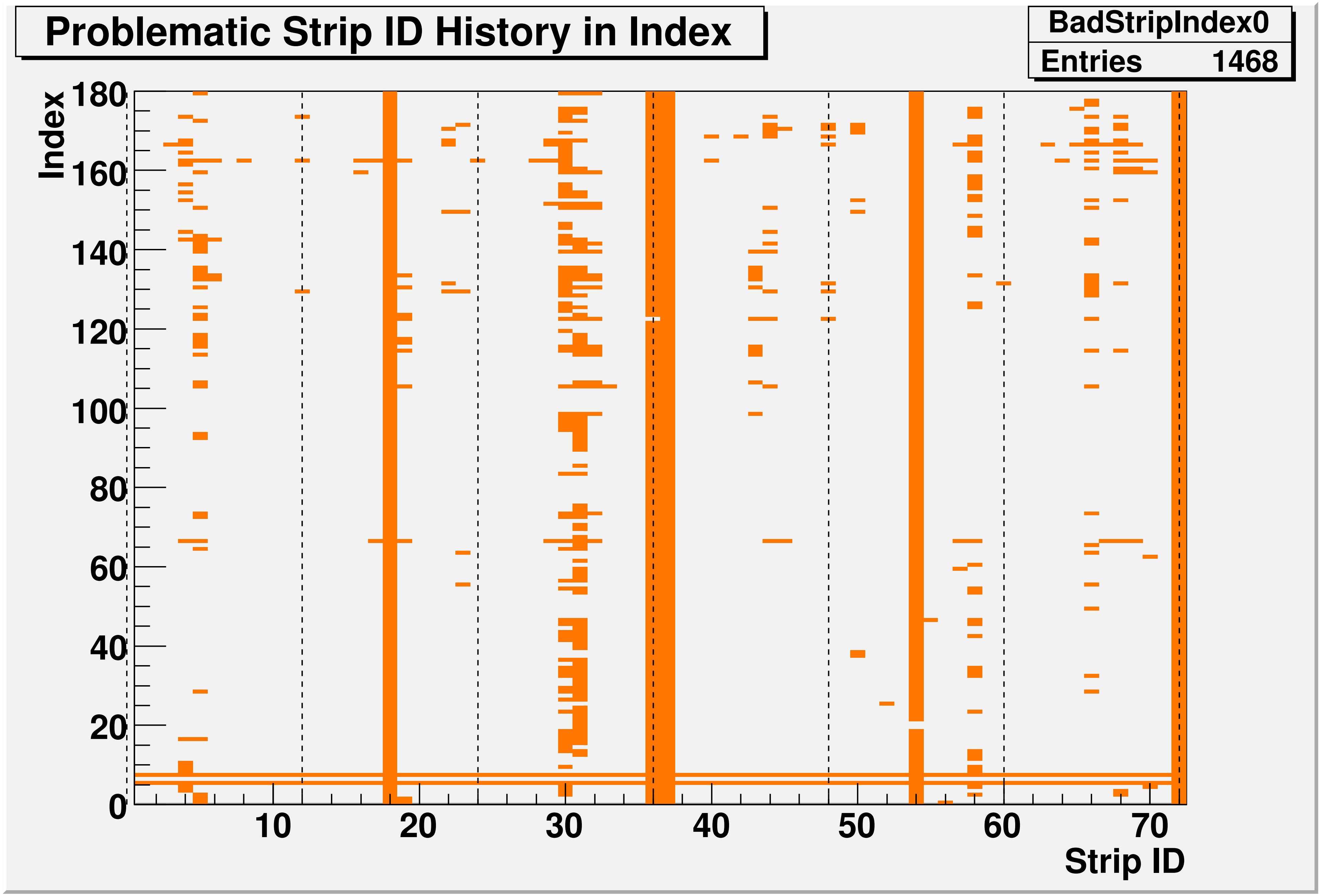
Number of Problematic Strips
# of Problematic Strips
0
10
20
30
40
50
60
70
9890
9900
9910
9920
9930
9940
9950
Fill Number


Number of Problematic Strips
# of Problematic Strips
0
10
20
30
40
50
60
70
9890
9900
9910
9920
9930
9940
9950
Fill Number

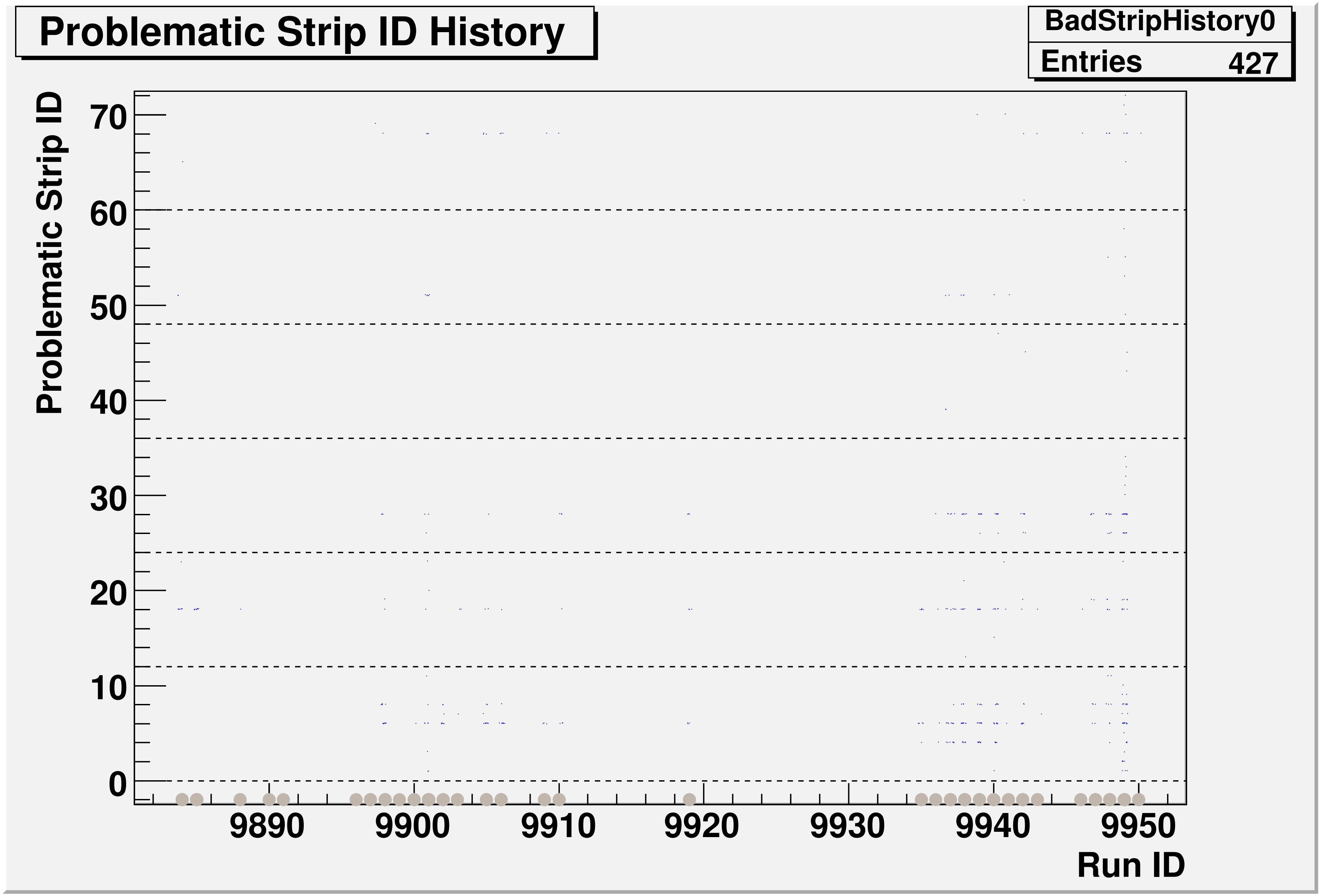

Number of Problematic Strips
# of Problematic Strips
0
10
20
30
40
50
60
70
9890
9900
9910
9920
9930
9940
9950
Fill Number



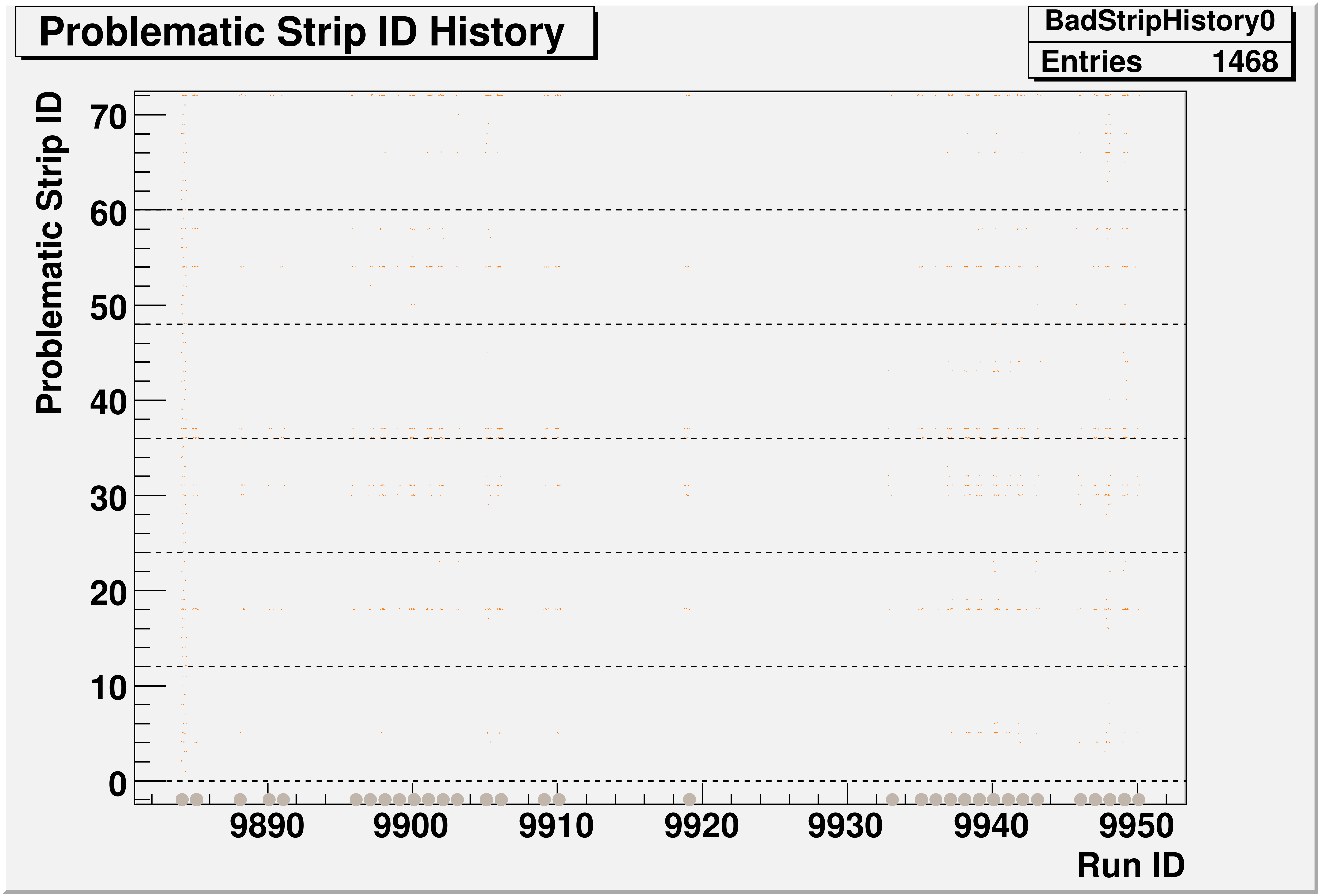
Problematic Strip ID History in Index
BadStripIndex0
Entries 427
Index
0
20
40
60
80
100
120
140
160
180
10
20
30
40
50
60
70
Strip ID



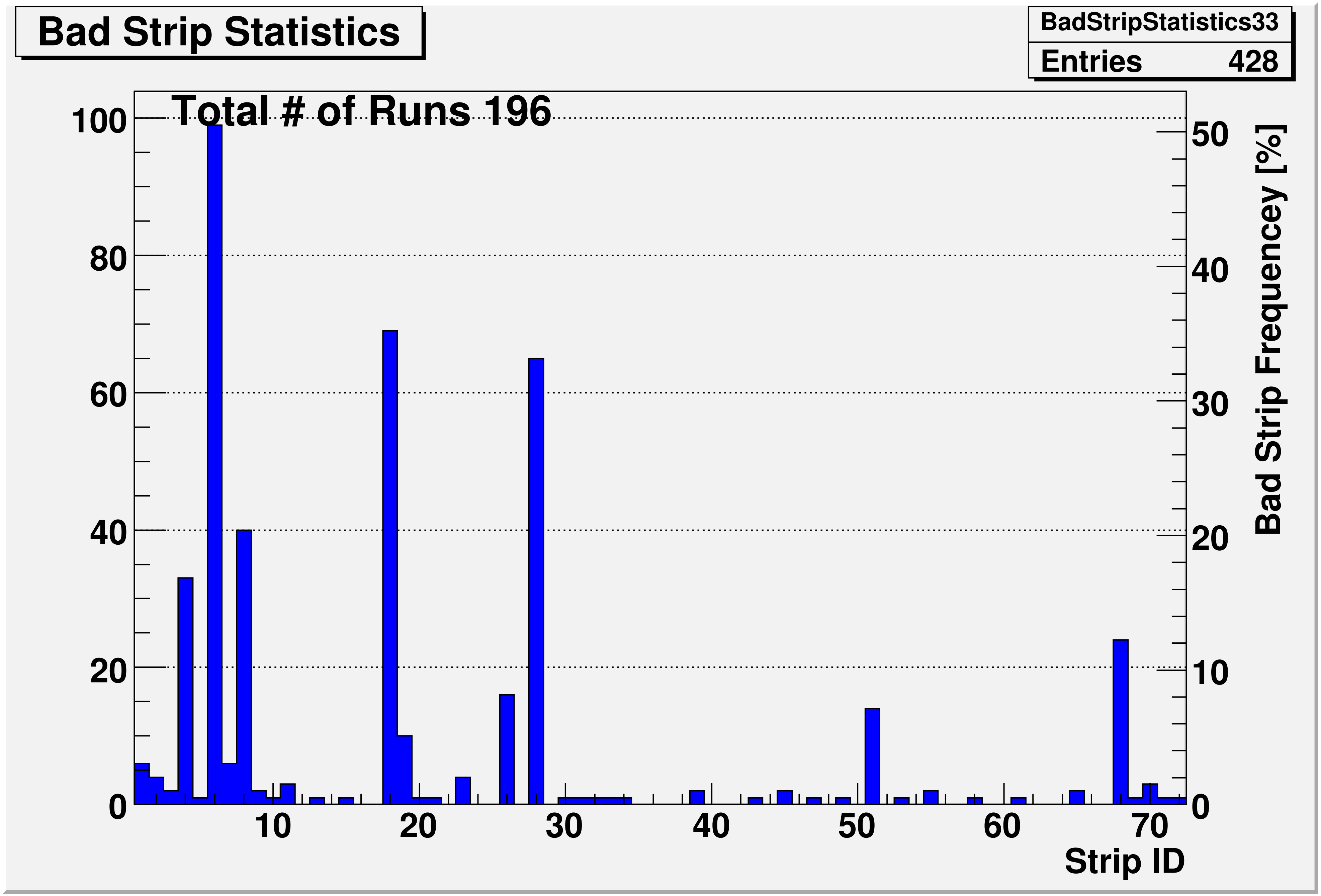
Problematic Strip ID History in Index
BadStripIndex0
Entries 1468
Index
0
20
40
60
80
100
120
140
160
180
10
20
30
40
50
60
70
Strip ID

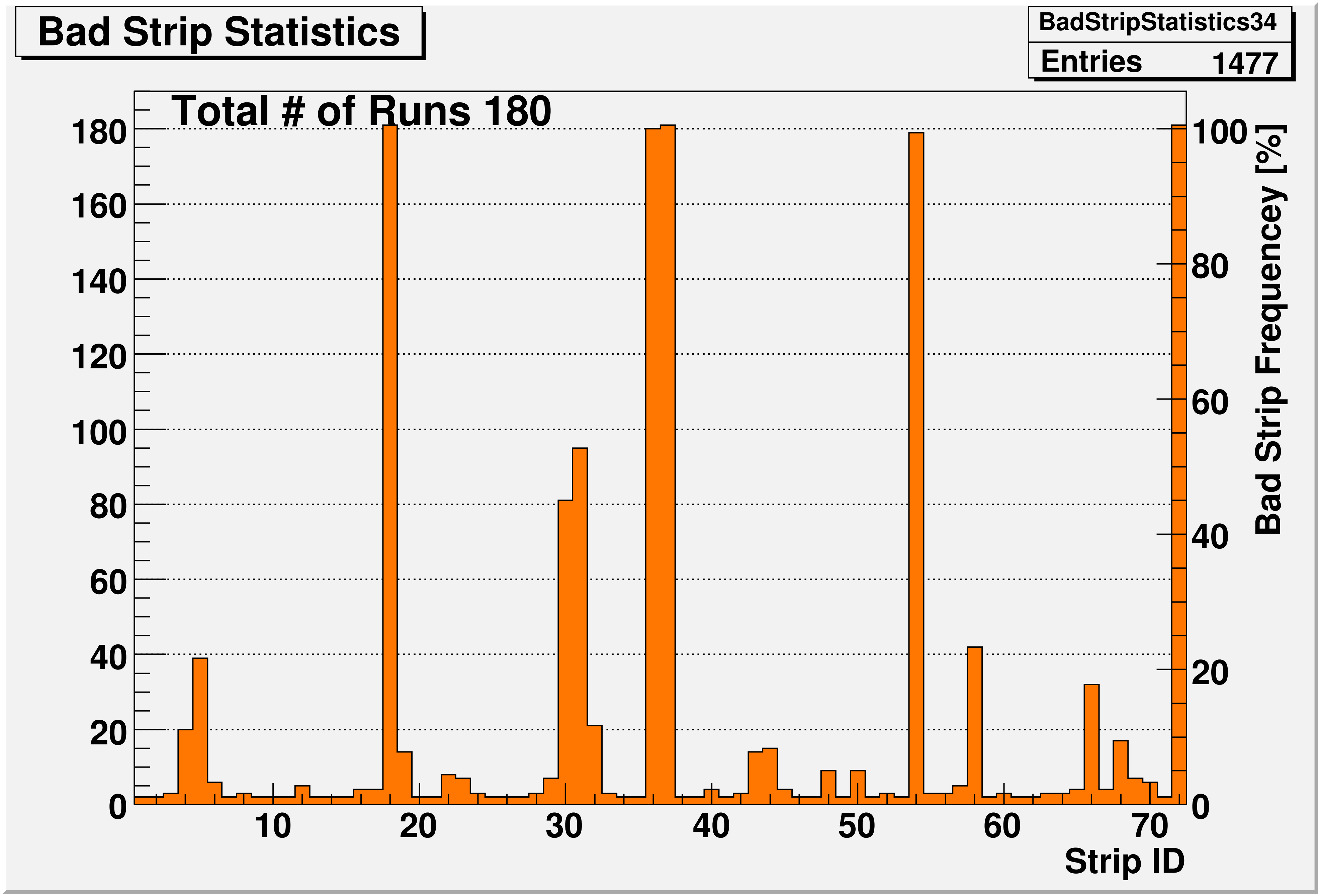


Problematic Strip ID History
BadStripHistory0
Entries 427
Problematic Strip ID
0
10
20
30
40
50
60
70
9890
9900
9910
9920
9930
9940
9950
Run ID



Problematic Strip ID History
BadStripHistory0
Entries 1468
Problematic Strip ID
0
10
20
30
40
50
60
70
9890
9900
9910
9920
9930
9940
9950
Run ID


Bad Strip Statistics
BadStripStatistics33
Entries 428
Total # of Runs 196
0
20
40
60
80
100
10
20
30
40
50
60
70
Strip ID
0
10
20
30
40
50
Bad Strip Frequencey [%]



Bad Strip Statistics
BadStripStatistics34
Entries 1477
Total # of Runs 180
180
160
140
120
100
80
60
40
20
0
10
20
30
40
50
60
70
Strip ID
100
80
60
40
20
0
Bad Strip Frequencey [%]